PORTABLE CHANGEABLE MESSAGE SIGNS

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

PCMS-1

CLAPHAM ROAD TO CLOSE

STARTING XX/XX/XX

DURING DETOUR
(DISPLAY FOR 5 DAYS AFTER IMPLEMENTATION OF DETOUR)

PCMS-1

CLAPHAM ROAD TO CLOSE

FOLLOW DETOUR

SPECIAL SIGNS

(Y) 60" × 42"
High Point USE Buffalo Rd — 8" C, 8" C, 8" C
FLUORESCENT ORANGE BACKGROUND WITH 8" BLACK LEGEND

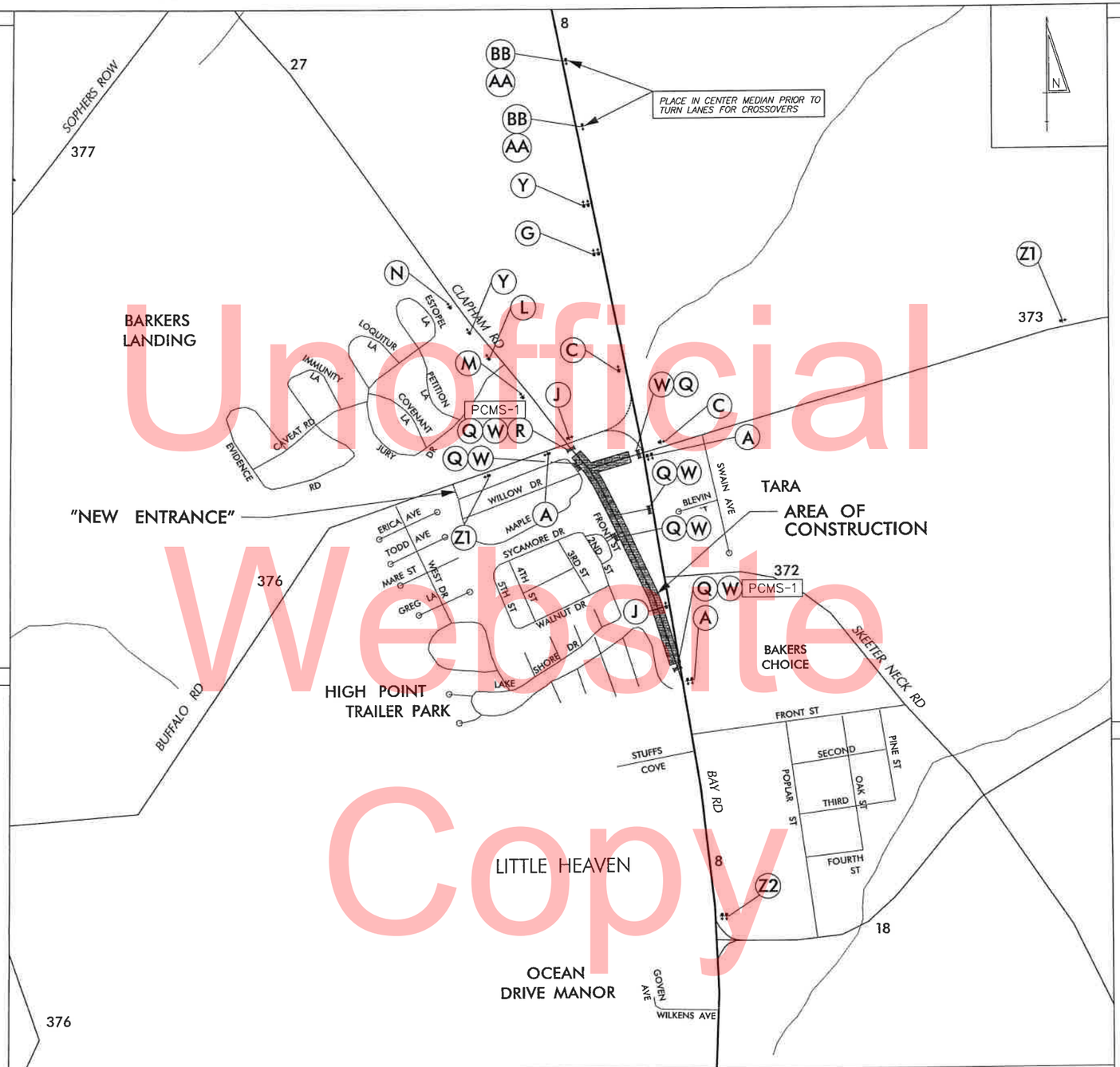
(Z1) 48" × 72"
Clapham Rd CLOSED AT Buffalo Rd — 8" C, 8" C, 8" C
FOLLOW DETOUR — 8" C, 8" C
FLUORESCENT ORANGE BACKGROUND WITH 8" BLACK LEGEND

(AA) 30" × 30"
DETOUR
M4-9

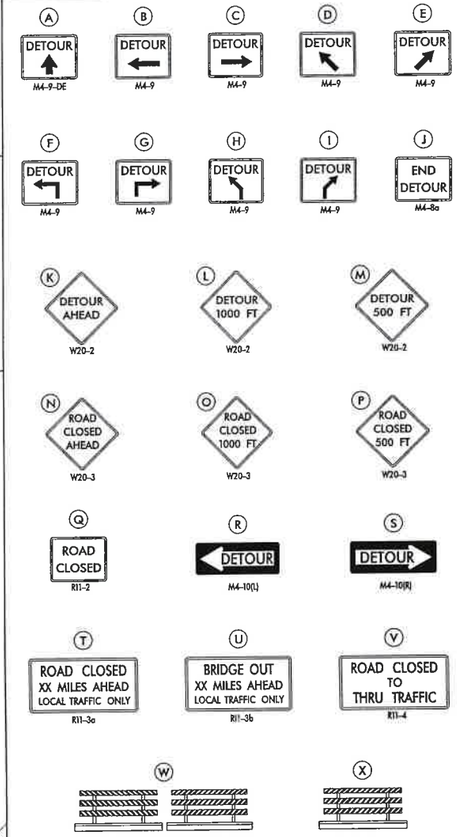
(Z2) 48" × 72"
Clapham Rd CLOSED AT
1 — 24" DIA*
FOLLOW DETOUR — 8" C, 8" C

(BB) 18"
Clapham Rd — 6" C
FLUORESCENT ORANGE BACKGROUND WITH 6" BLACK LEGEND

*ROUTE SHIELDS TO BE BLACK LEGEND ON WHITE BACKROUND



LEGEND



GENERAL NOTES

1. 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.)
2. 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.)
3. DESIGN OF ALL SIGNS SHALL BE IN ACCORDANCE WITH THE FHWA STANDARD HIGHWAY SIGNS BOOK.
4. 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.
5. SIGNS NO LONGER IN USE SHALL BE COMPLETELY COVERED WITH NO RETROREFLECTIVE MATERIAL SHOWING, OR SHALL BE REMOVED, AS DIRECTED BY THE ENGINEER.
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7. SIGNS "N" THROUGH "Q" AND "T" AND "V", THE WORD "ROAD" SHOULD BE CHANGED TO "RAMP", "RR XING", OR "BRIDGE" WHERE APPLICABLE.
8. WARNING SIGNS AND DETOUR TRAILBLAZERS SHALL BE MOUNTED ON BREAKAWAY POSTS AND HAVE RETROREFLECTIVE FLUORESCENT ORANGE SHEETING.
9. "W" BARRICADES SHALL COMPLETELY RUN THE FULL WIDTH OF THE ROADWAY.
10. BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.

DETOUR PLAN (PHASE I, STAGE 13 & 14)

CLAPHAM ROAD DETOUR (HIGH POINT TRAILER PARK ENTRANCE CLOSED)

RECOMMENDED _____ DATE: 11-21-14
RECOMMENDED _____ DATE: 11/20/14
RECOMMENDED _____ DATE: 11/19/14
APPROVED CHIEF SAFETY OFFICER _____ DATE: 11-21-14
APPROVED TRAFFIC ENGINEER _____ DATE: 11/21/14

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUM / REVISIONS

NOT TO SCALE

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	PERMIT NO.	-
T200412202	DESIGNED BY:	DS
COUNTY	CHECKED BY:	BAM
KENT		

DETOUR PLAN

SHEET NO. 451
TOTAL SHTS. 641

11/20/2014
G:\PROJECTS\0351T.00 (DELDOT AGMT 1223 DOTS Open End)\0351T.16 SR1 LITTLE HEAVEN FINAL DESIGN\DGN Files\detour0111r-clapham.dgn
2:32:46 PM

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PORTABLE CHANGEABLE MESSAGE SIGNS

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

PCMS-1

BARRATTS CHAPEL ROAD

TO CLOSE STARTING XX/XX/XX

DURING DETOUR
(DISPLAY FOR 5 DAYS AFTER IMPLEMENTATION OF DETOUR)

PCMS-1

BARRATTS CHAPEL ROAD

CLOSED FOLLOW DETOUR

SPECIAL SIGNS

(Y) 48"

Barratts Chapel Rd	8" C
CLOSED AT	8" C
1	24" DIA
FOLLOW DETOUR	8" C
	8" C

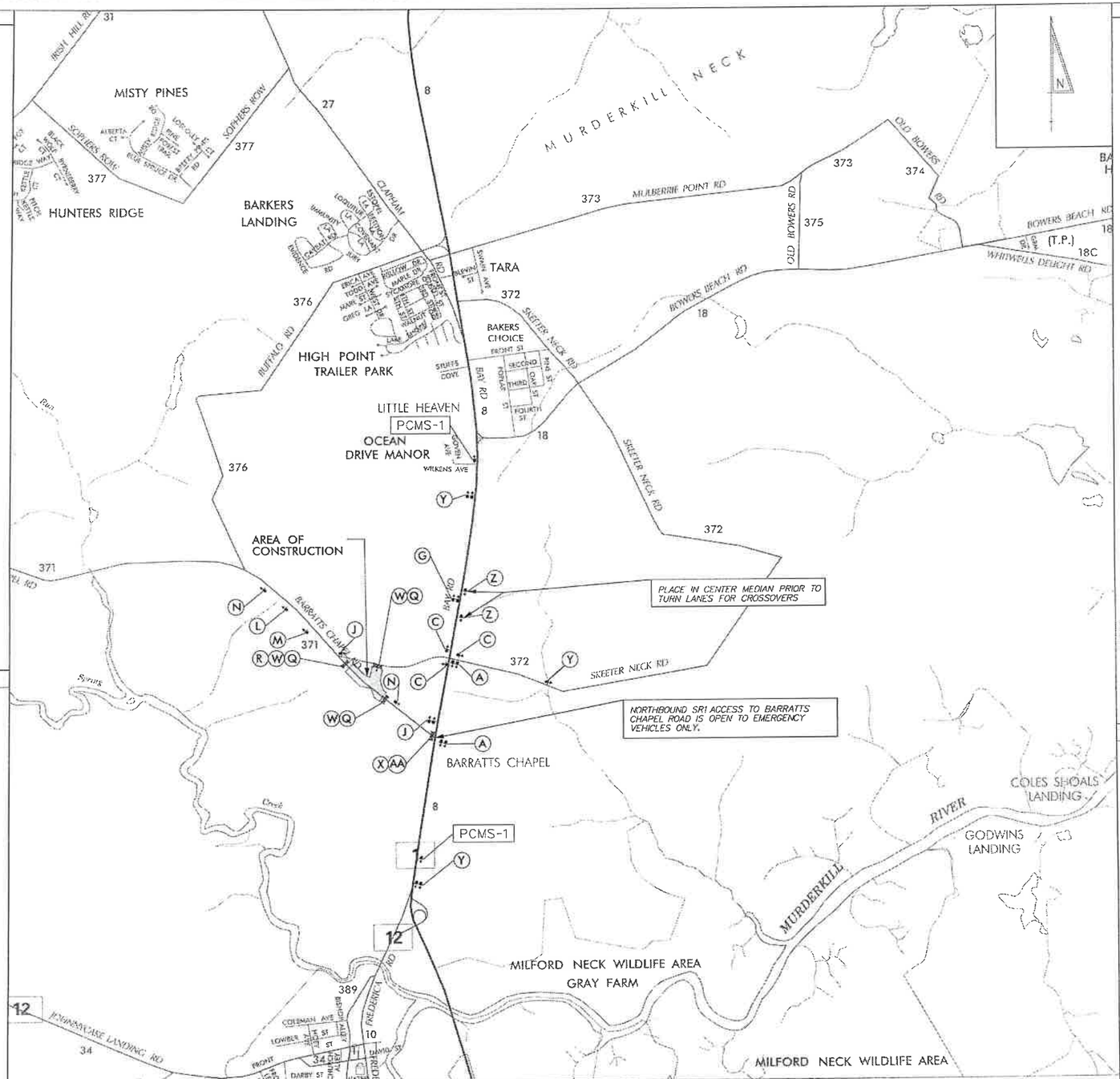
78"

FLUORESCENT ORANGE BACKGROUND WITH 8" BLACK LEGEND

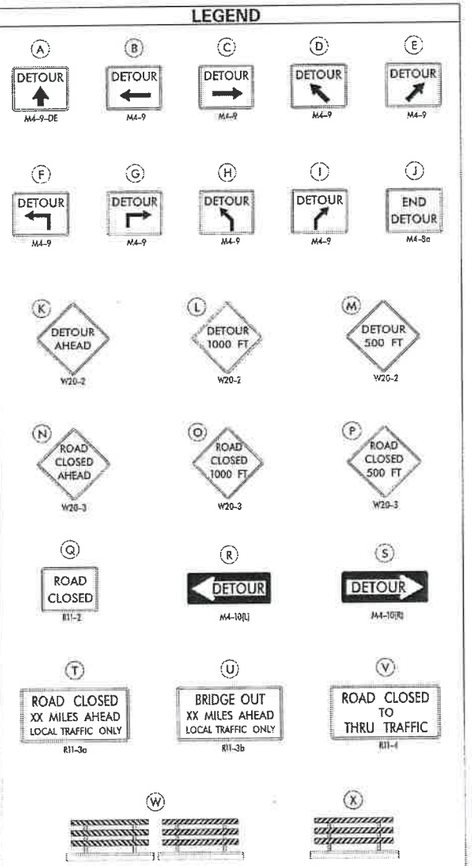
(Z) 30" × 30" DETOUR M4-9

(AA) ROAD CLOSED 1000 FEET AHEAD LOCAL TRAFFIC ONLY R11-3a

*ROUTE SHIELDS TO BE BLACK LEGEND ON WHITE BACKGROUND



LEGEND



GENERAL NOTES

1. 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.)
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8. WARNING SIGNS AND DETOUR TRAILBLAZERS SHALL BE MOUNTED ON BREAKAWAY POSTS AND HAVE RETROREFLECTIVE FLUORESCENT ORANGE SHEETING.
9. "W" BARRICADES SHALL COMPLETELY RUN THE FULL WIDTH OF THE ROADWAY.
10. BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.

DETOUR PLAN (PHASE II, STAGE 8)
BARRATTS CHAPEL ROAD DETOUR

RECOMMENDED [signature] DATE: 11-21-14	RECOMMENDED [signature] DATE: 11/20/14	RECOMMENDED [signature] DATE: 11/19/14	APPROVED CHIEF SAFETY OFFICER [signature] DATE: 11-21-14

APPROVED TRAFFIC ENGINEER [signature] DATE: 11/21/14

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUM / REVISIONS

NOT TO SCALE

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	1200402202	PERMIT NO.	-
COUNTY	KENT	DESIGNED BY:	DS
		CHECKED BY:	BAM

DETOUR PLAN

SHEET NO. 452
TOTAL SHTS. 641

11/21/2014 C:\PROJECTS\CS\1200 DETOUR ADMIN FILES\DOTS Upper Files\DOTS SR1 LITTLE HEAVEN FINAL DESIGN\DE_HWS\DetourDet_Plan_Little Heavy.dgn

PORTABLE CHANGEABLE MESSAGE SIGNS

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

PCMS-1

BARRATTS CHAPEL ROAD

TO CLOSE STARTING XX/XX/XX

DURING DETOUR
(DISPLAY FOR 5 DAYS AFTER IMPLEMENTATION OF DETOUR)

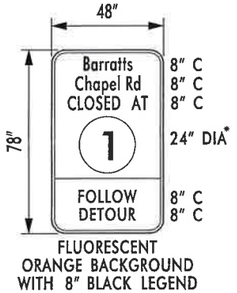
PCMS-1

BARRATTS CHAPEL ROAD

CLOSED FOLLOW DETOUR

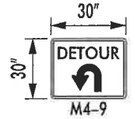
SPECIAL SIGNS

(Y)

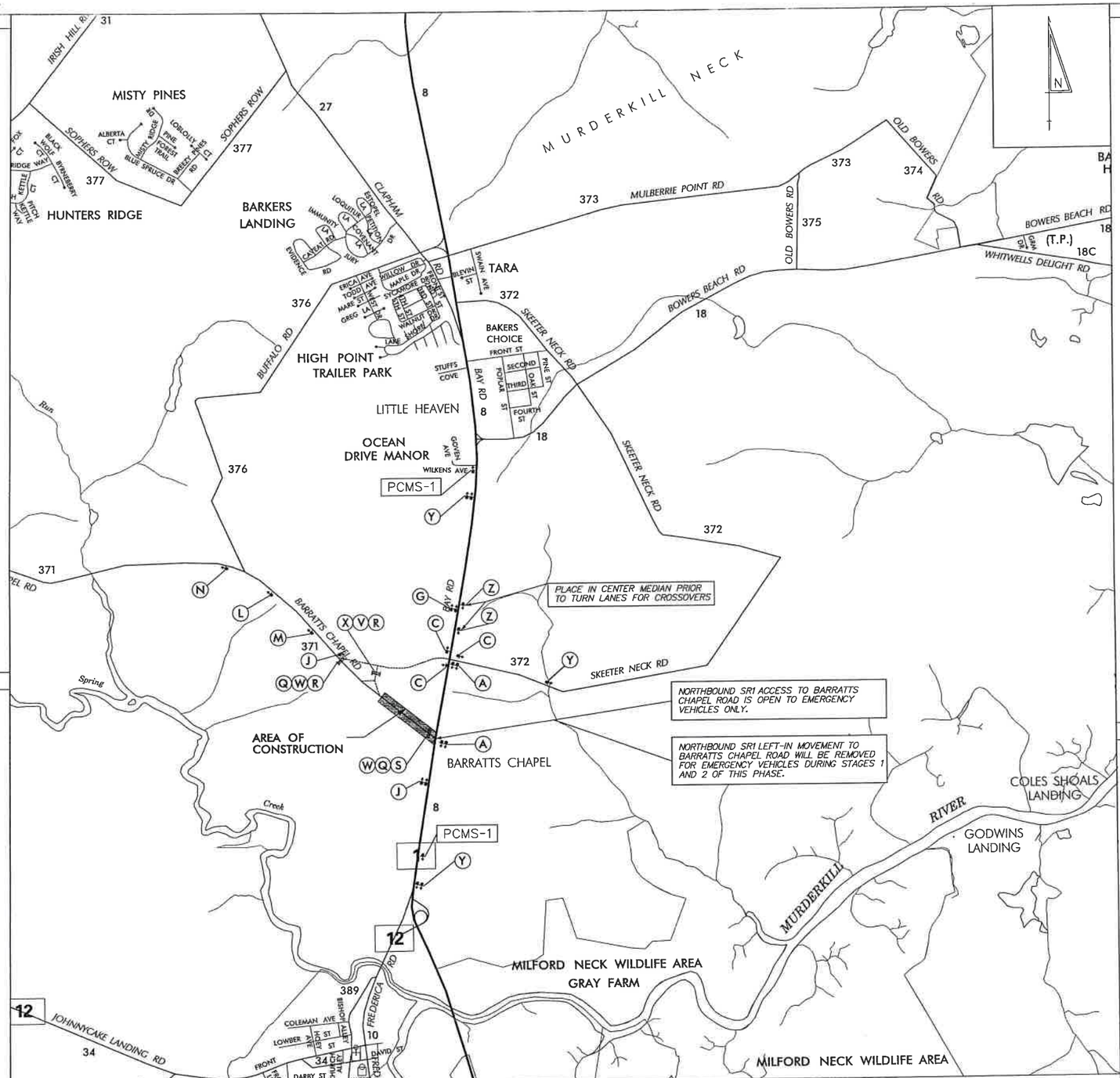


FLUORESCENT ORANGE BACKGROUND WITH 8" BLACK LEGEND

(Z)



*ROUTE SHIELDS TO BE BLACK LEGEND ON WHITE BACKROUND



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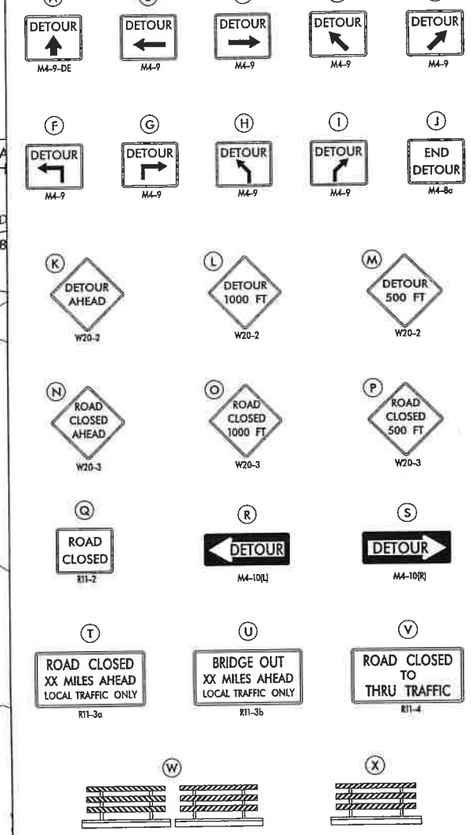

GENERAL NOTES

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9. "W" BARRICADES SHALL COMPLETELY RUN THE FULL WIDTH OF THE ROADWAY.
10. BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.

DETOUR PLAN (PHASE II, STAGE 9)
BARRATTS CHAPEL ROAD DETOUR

RECOMMENDED _____ DATE: 11-21-14

RECOMMENDED _____ DATE: 11/20/14

RECOMMENDED _____ DATE: 11/19/14

APPROVED CHIEF SAFETY OFFICER _____ DATE: 11-21-14

APPROVED TRAFFIC ENGINEER _____ DATE: 11/21/14

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUM / REVISIONS

NOT TO SCALE

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	PERMIT NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	BAM
KENT		

DETOUR PLAN

SHEET NO. 453
TOTAL SHTS. 641

11/20/2014
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2:21:11 PM

PORTABLE CHANGEABLE MESSAGE SIGNS

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

PCMS-1

BARRATTS CHAPEL ROAD

TO CLOSE STARTING XX/XX/XX

DURING DETOUR
(DISPLAY FOR 5 DAYS AFTER IMPLEMENTATION OF DETOUR)

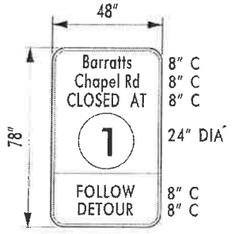
PCMS-1

BARRATTS CHAPEL ROAD

CLOSED FOLLOW DETOUR

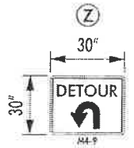
SPECIAL SIGNS

(Y)

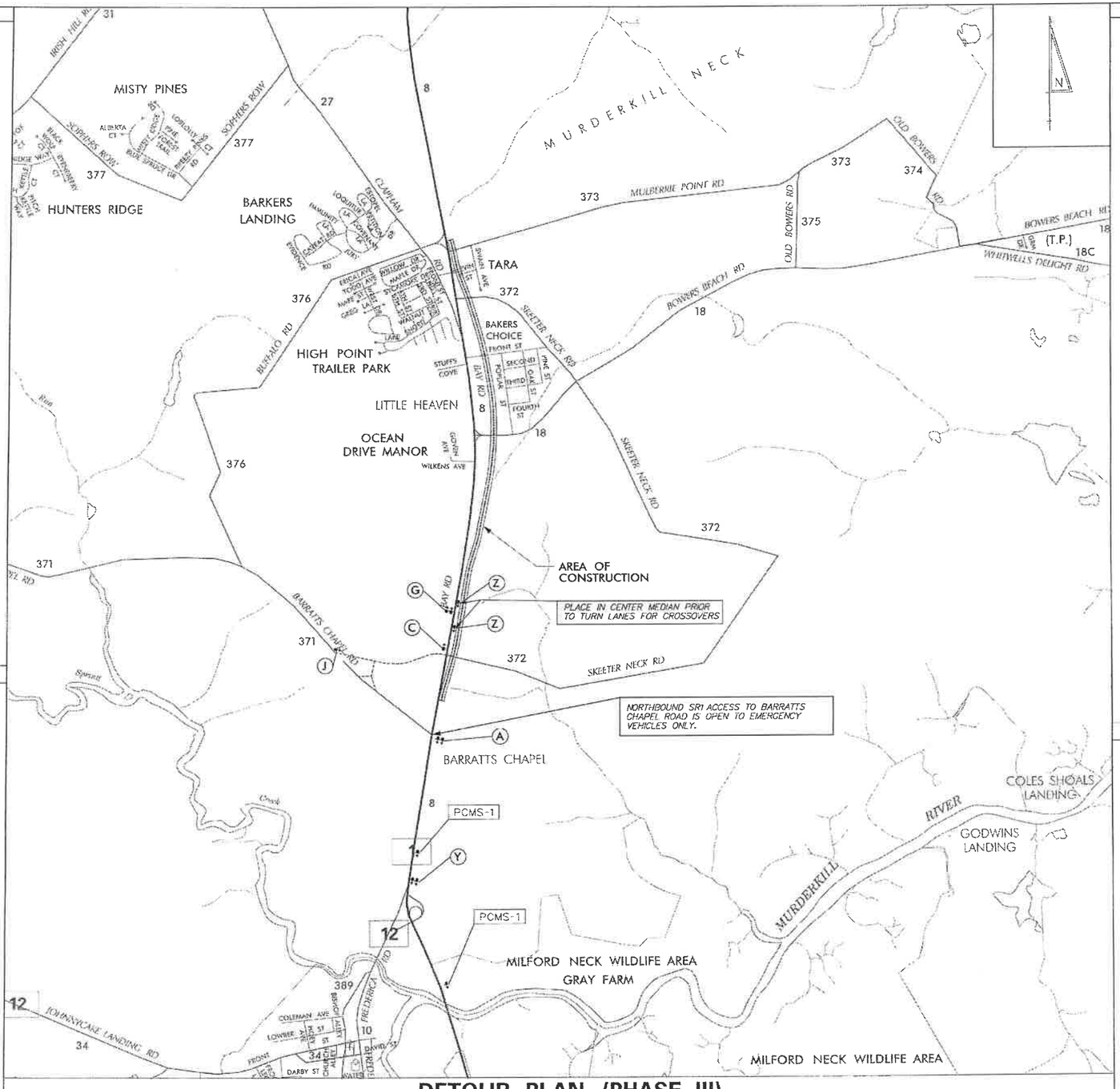


FLUORESCENT ORANGE BACKGROUND WITH 8" BLACK LEGEND

(Z)



*ROUTE SHIELDS TO BE BLACK LEGEND ON WHITE BACKROUND



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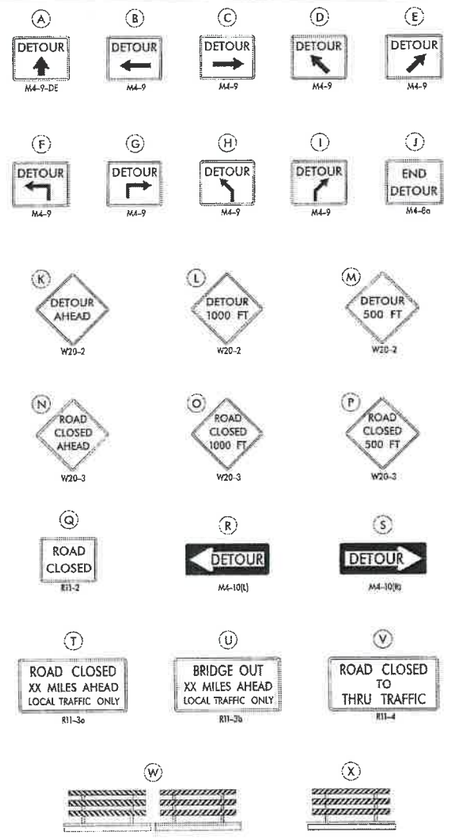

GENERAL NOTES

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8. WARNING SIGNS AND DETOUR TRAILBLAZERS SHALL BE MOUNTED ON BREAKAWAY POSTS AND HAVE RETROREFLECTIVE FLUORESCENT ORANGE SHEETING.
9. "W" BARRICADES SHALL COMPLETELY RUN THE FULL WIDTH OF THE ROADWAY.
10. BARRICADES SHALL BE A MINIMUM OF 8 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.

DETOUR PLAN (PHASE III)

BARRATTS CHAPEL ROAD DETOUR

RECOMMENDED _____ DATE: 11-21-14

RECOMMENDED _____ DATE: 11/20/14

RECOMMENDED _____ DATE: 11/19/14

APPROVED CHIEF SAFETY OFFICER _____ DATE: 11-21-14

APPROVED TRAFFIC ENGINEER _____ DATE: 11/21/14

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUM / REVISIONS

NOT TO SCALE

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	PERMIT NO.	-
T200412202	DESIGNED BY:	EDS
COUNTY	CHECKED BY:	BAM
KENT		

DETOUR PLAN

SHEET NO. 454

TOTAL SHTS. 641

11/21/2014 8:26:48 AM C:\Users\DELDOT AGMT #224 DYTS Open Endv\DGN\T-36.1 LITTLE HEAVEN FINAL DESIGN\DGN Files\Detour\03h barratts.dgn

PORTABLE CHANGEABLE MESSAGE SIGNS

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

PCMS-1

SKEETER NECK RD TO CLOSE	STARTING XX/XX/XX

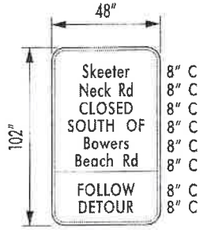
DURING DETOUR
(DISPLAY FOR 5 DAYS AFTER IMPLEMENTATION OF DETOUR)

PCMS-2

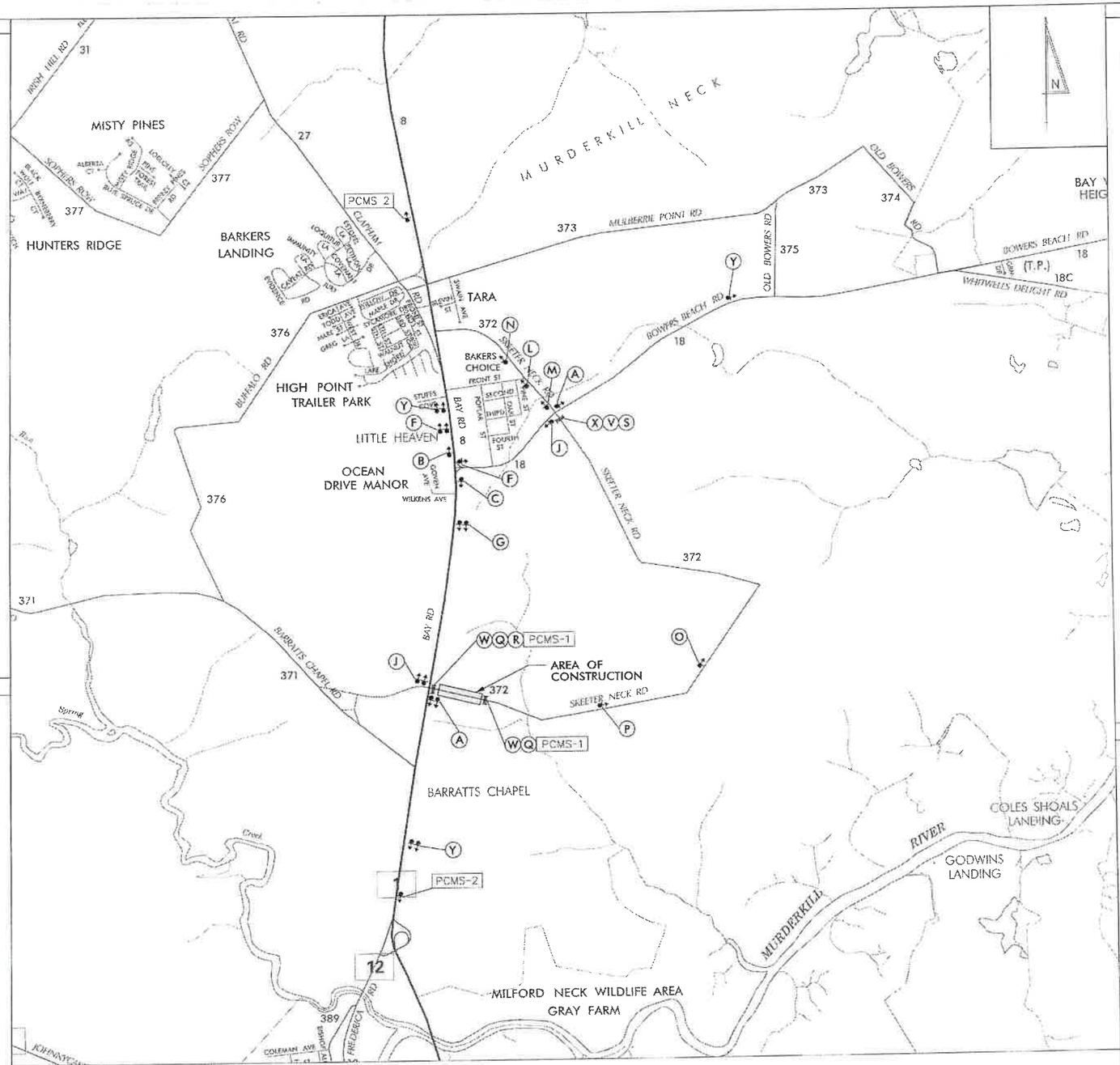
SKEETER NECK RD CLOSED	FOLLOW DETOUR

SPECIAL SIGNS

(Y)



FLUORESCENT
ORANGE BACKGROUND
WITH 8" BLACK LEGEND



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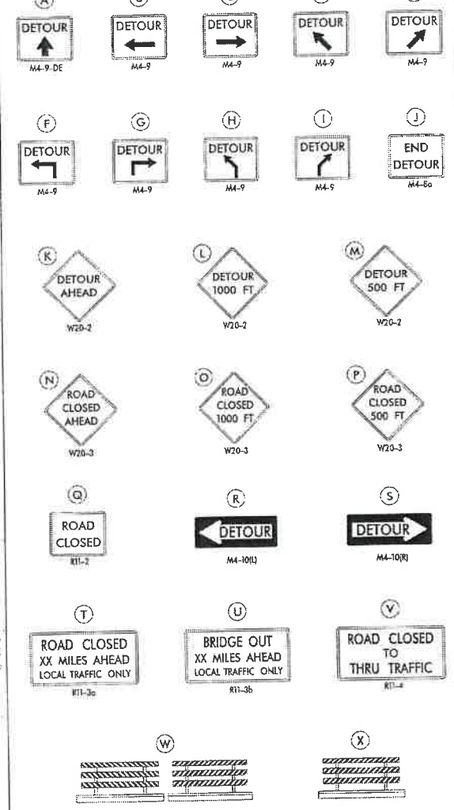

GENERAL NOTES

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9. "W" BARRICADES SHALL COMPLETELY RUN THE FULL WIDTH OF THE ROADWAY.
10. BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.

DETOUR PLAN (PHASE III, STAGE 1)
SKEETER NECK ROAD DETOUR

RECOMMENDED	DATE: 11-21-14	RECOMMENDED	DATE: 11/20/14	RECOMMENDED	DATE: 11/19/14
APPROVED CHIEF SAFETY OFFICER	DATE: 11-21-14	APPROVED TRAFFIC ENGINEER	DATE: 11/21/14		

DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUM / REVISIONS

NOT TO SCALE

SR1, LITTLE HEAVEN
GRADE SEPARATED INTERSECTION

CONTRACT	PERMIT NO.	-
T200412202	DESIGNED BY:	DT
COUNTY	CHECKED BY:	BJM
KENT		

DETOUR PLAN

SHEET NO. 455
TOTAL SHTS. 641

PORTABLE CHANGEABLE MESSAGE SIGNS

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

PCMS-1

MUL- BERRIE POINT RD	TO CLOSE STARTING XX/XX/XX

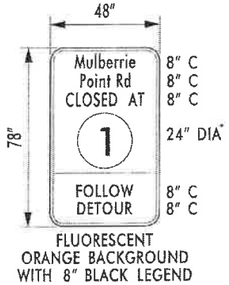
DURING DETOUR
(DISPLAY FOR 5 DAYS AFTER IMPLEMENTATION OF DETOUR)

PCMS-2

MUL- BERRIE POINT RD	CLOSED FOLLOW DETOUR

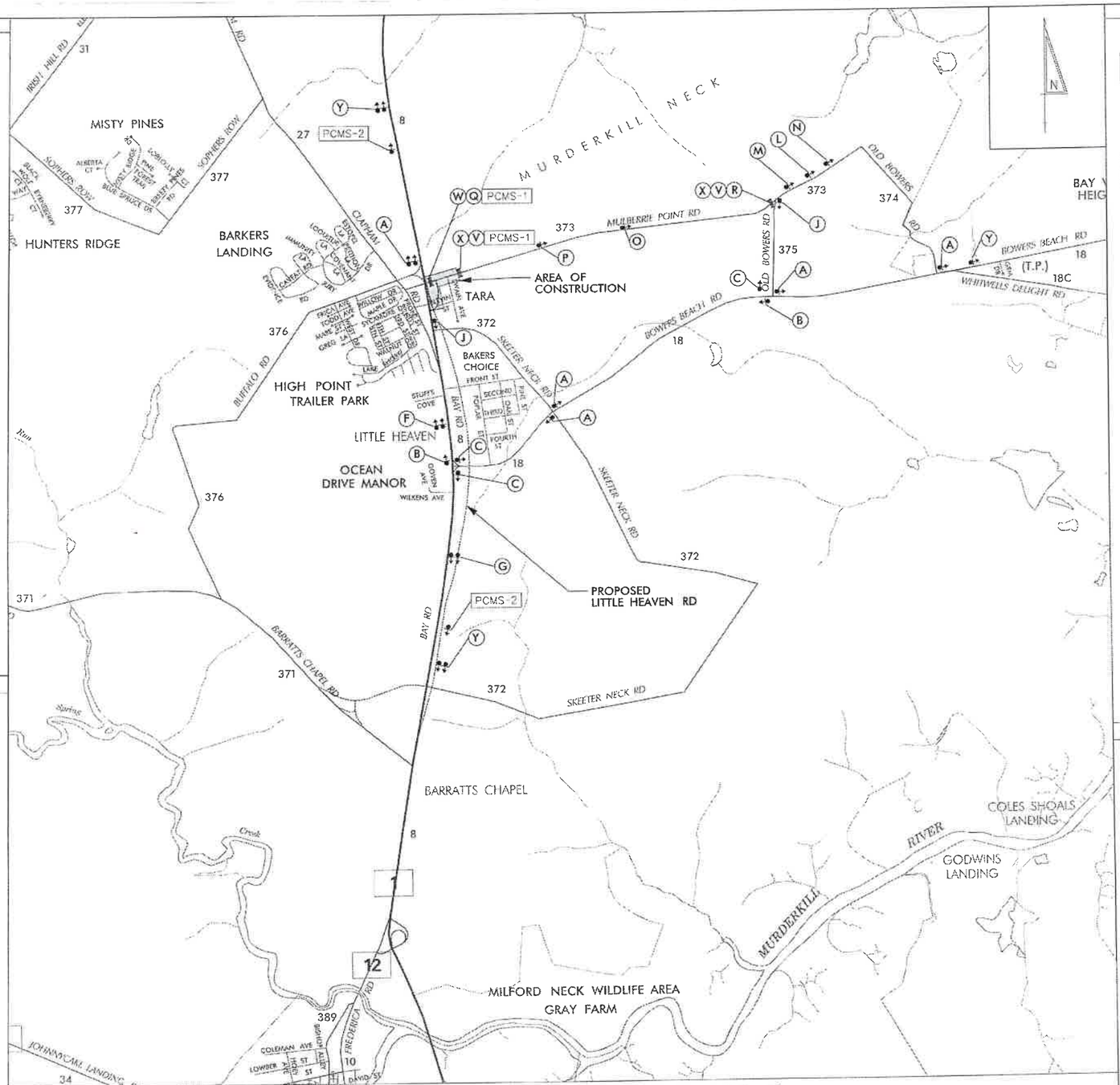
SPECIAL SIGNS

(Y)

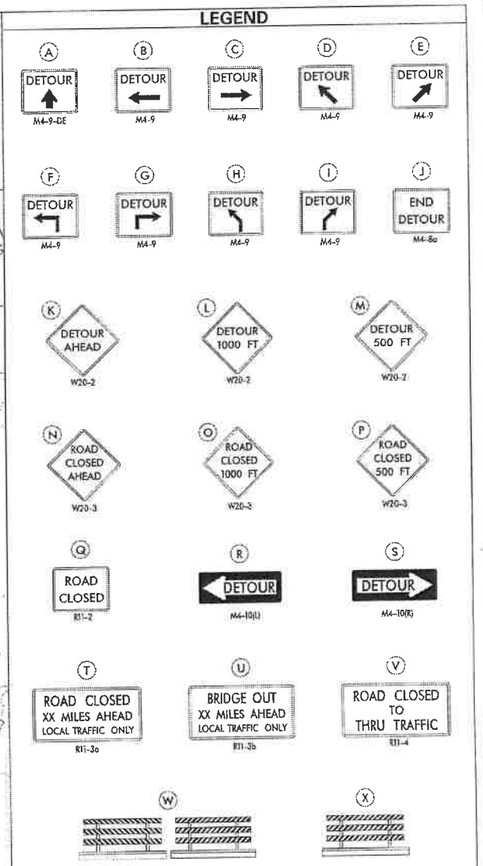


FLUORESCENT
ORANGE BACKGROUND
WITH 8" BLACK LEGEND

*ROUTE SHIELDS TO BE BLACK LEGEND ON WHITE BACKGROUND



LEGEND



GENERAL NOTES

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7. SIGNS "N" THROUGH "O" AND "T" AND "V", THE WORD "ROAD" SHOULD BE CHANGED TO "RAMP", "RP XING", OR "BRIDGE" WHERE APPLICABLE.
8. WARNING SIGNS AND DETOUR TRAILBLAZERS SHALL BE MOUNTED ON BREAKAWAY POSTS AND HAVE RETROREFLECTIVE FLUORESCENT ORANGE SHEETING.
9. "W" BARRICADES SHALL COMPLETELY RUN THE FULL WIDTH OF THE ROADWAY.
10. BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.

DETOUR PLAN (PHASE III, STAGE 2)
MULBERRIE POINT ROAD DETOUR

RECOMMENDED	DATE: 11-21-14	RECOMMENDED	DATE: 11/20/14
RECOMMENDED	DATE: 11/21/14	APPROVED CHIEF SAFETY OFFICER	DATE: 11-21-14
APPROVED TRAFFIC ENGINEER	DATE: 11/21/14		

DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUM / REVISIONS

NOT TO SCALE

SR1, LITTLE HEAVEN
GRADE SEPARATED INTERSECTION

CONTRACT	PERMIT NO.	-
T200412202	DESIGNED BY:	FRS
COUNTY	CHECKED BY:	RMM
KENT		

DETOUR PLAN

SHEET NO.	456
TOTAL SHTS.	647

PLOTTED BY: rmcclung DATE/TIME: 11/21/2014 8:54:00 AM FILE NAME: C:\Projects\T200412202\Design\Roadway\Detour\Mulberrie Point Detour.dgn

PORTABLE CHANGEABLE MESSAGE SIGNS

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

PCMS-1

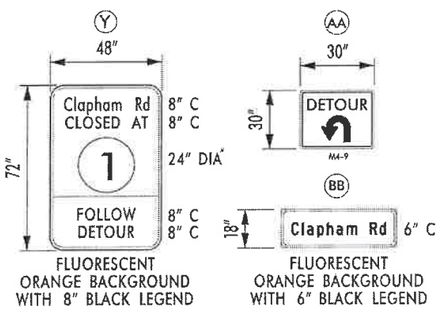
CLAPHAM ROAD TO CLOSE	STARTING XX/XX/XX

DURING DETOUR
(DISPLAY FOR 5 DAYS AFTER IMPLEMENTATION OF DETOUR)

PCMS-1

CLAPHAM ROAD CLOSED	FOLLOW DETOUR

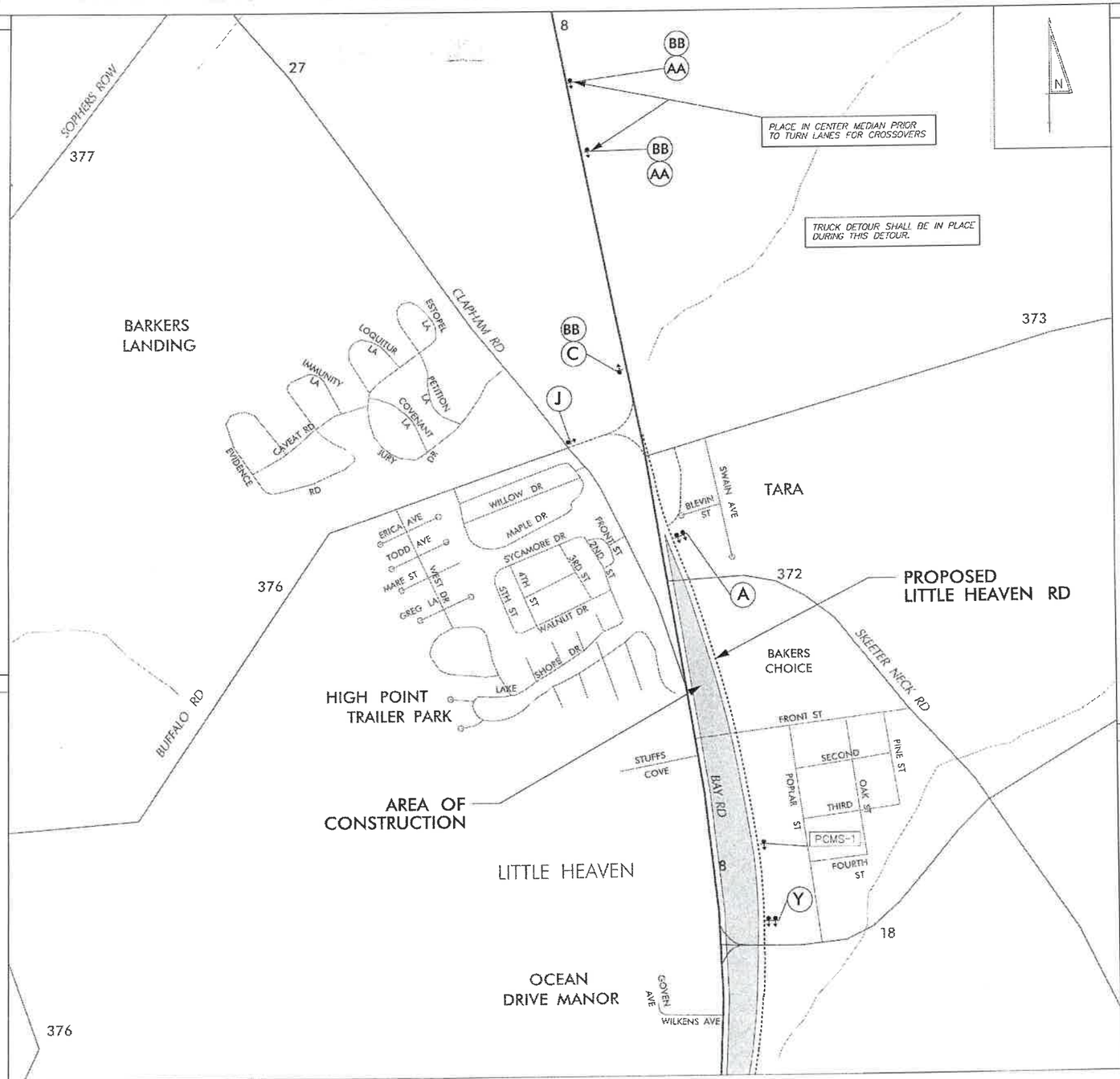
SPECIAL SIGNS



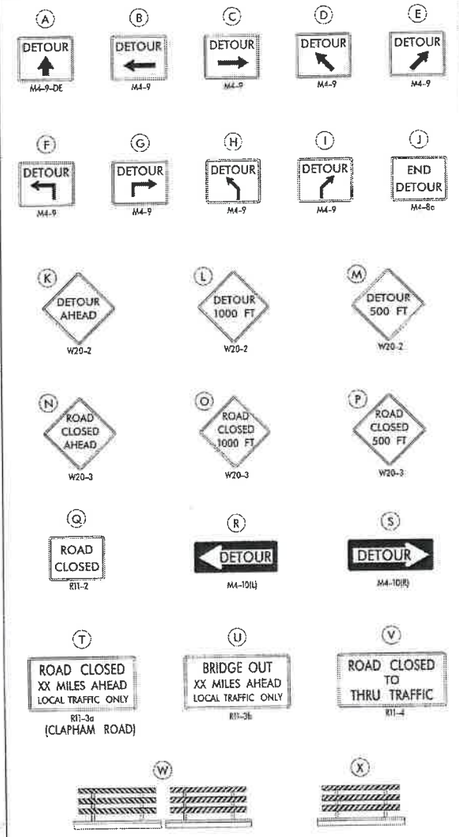
FLUORESCENT ORANGE BACKGROUND WITH 8" BLACK LEGEND

FLUORESCENT ORANGE BACKGROUND WITH 6" BLACK LEGEND

*ROUTE SHIELDS TO BE BLACK LEGEND ON WHITE BACKGROUND



LEGEND



GENERAL NOTES

1. 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).
2. THE CONTRACTOR SHALL COMPLY WITH GUIDELINES IN "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD) PART 6J FOR BARRICADES AND SIGNS (AS PER LATEST REVISION).
3. DESIGN OF ALL SIGNS SHALL BE IN ACCORDANCE WITH THE FHWA STANDARD HIGHWAY SIGNS BOOK.
4. 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.
5. SIGNS NO LONGER IN USE SHALL BE COMPLETELY COVERED WITH NO RETROREFLECTIVE MATERIAL SHOWING, OR SHALL BE REMOVED, AS DIRECTED BY THE ENGINEER.
6. 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.
7. SIGNS "N" THROUGH "Q" AND "T" AND "V", THE WORD "ROAD" SHOULD BE CHANGED TO "RAMP", "RR XING", OR "BRIDGE" WHERE APPLICABLE.
8. WARNING SIGNS AND DETOUR TRAILBLAZERS SHALL BE MOUNTED ON BREAKAWAY POSTS AND HAVE RETROREFLECTIVE FLUORESCENT ORANGE SHEETING.
9. "W" BARRICADES SHALL COMPLETELY RUN THE FULL WIDTH OF THE ROADWAY.
10. BARRICADES SHALL BE A MINIMUM OF 8 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.

DETOUR PLAN (PHASE IV)
CLAPHAM ROAD DETOUR

RECOMMENDED _____ DATE: _____

RECOMMENDED _____ DATE: 11/20/14

RECOMMENDED _____ DATE: 11/19/14

APPROVED CHIEF SAFETY OFFICER _____ DATE: 11-21-14

APPROVED TRAFFIC ENGINEER _____ DATE: 11/21/14

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUM / REVISIONS

NOT TO SCALE

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	PERMIT NO.	-
1200412202	DESIGNED BY:	EBS
COUNTY	CHECKED BY:	BAM
KENT		

DETOUR PLAN

SHEET NO.
457
TOTAL SHTS.
541

S:\Projects\1200412202 SR1 LITTLE HEAVEN FINAL DESIGN\Civil\Sheets\Detour Plan\Detour Plan.dgn
11/19/2014 08:15:50 AM

PORTABLE CHANGEABLE MESSAGE SIGNS

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

PCMS-1

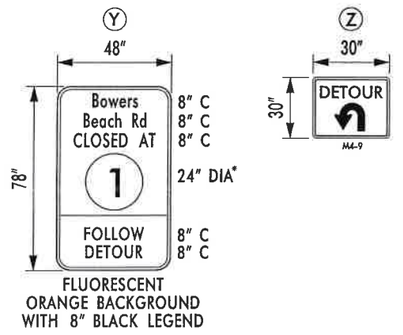
BOWERS BEACH RD TO CLOSE	STARTING XX/XX/XX XPM-XAM

DURING DETOUR
(DISPLAY FOR 5 DAYS AFTER IMPLEMENTATION OF DETOUR)

PCMS-2

BOWERS BEACH RD CLOSED	FOLLOW DETOUR

SPECIAL SIGNS



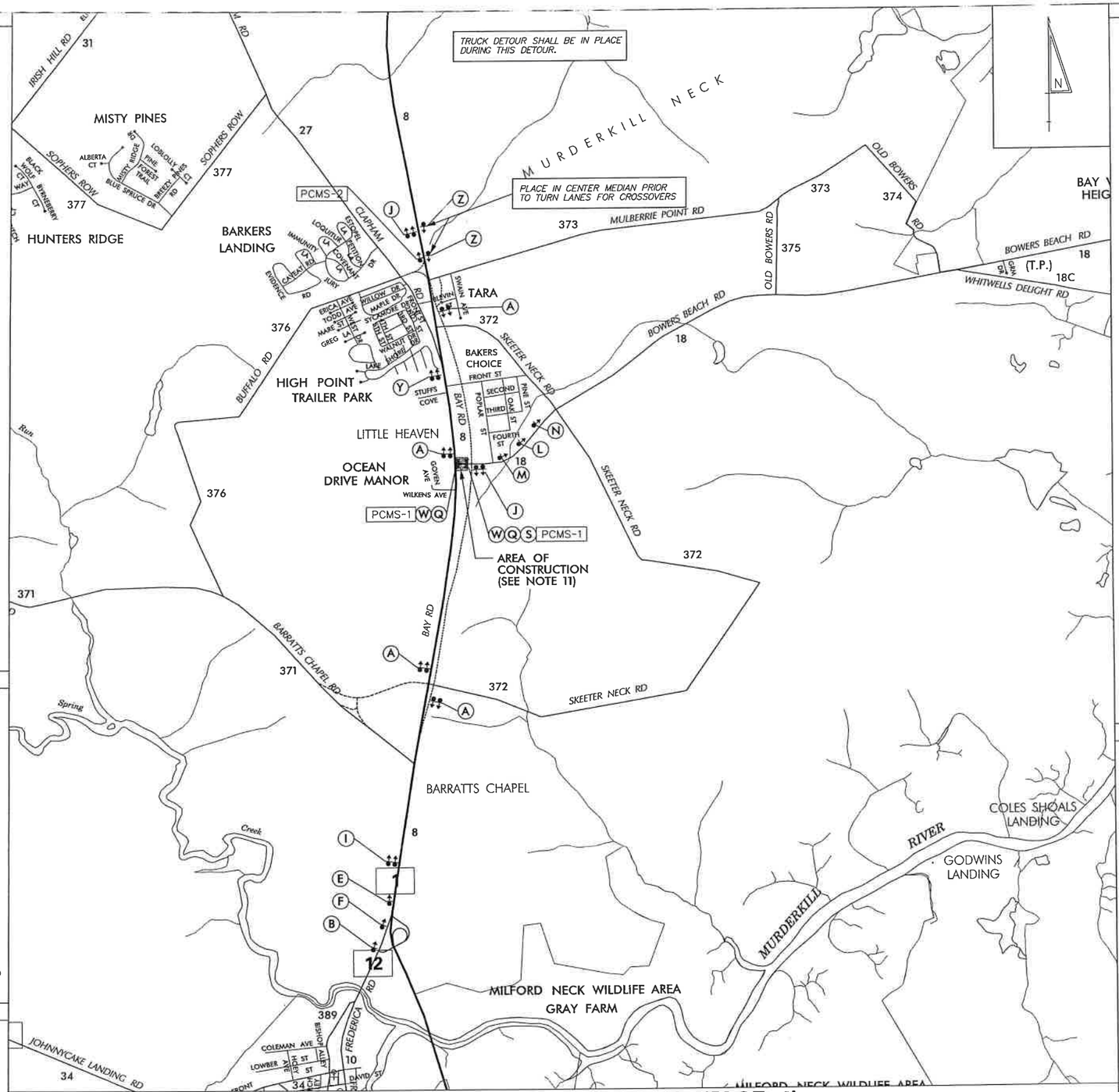
FLUORESCENT ORANGE BACKGROUND WITH 8" BLACK LEGEND

*ROUTE SHIELDS TO BE BLACK LEGEND ON WHITE BACKGROUND

SPECIAL NOTES

11. CONTRACTOR SHALL COVER ALL PROPOSED DETOUR SIGNS FOR THIS STAGE WHEN NIGHTTIME DETOUR IS NOT IN EFFECT.

12. CONTRACTOR SHALL COVER ALL CONFLICTING DETOUR SIGNS FOR THIS STAGE WHEN NIGHTTIME DETOUR IS IN EFFECT.



LEGEND

A DETOUR M4-9-DE	B DETOUR M4-9	C DETOUR M4-9	D DETOUR M4-9	E DETOUR M4-9
F DETOUR M4-9	G DETOUR M4-9	H DETOUR M4-9	I DETOUR M4-9	J END DETOUR M4-8a
K DETOUR AHEAD W20-2	L DETOUR 1000 FT W20-2	M DETOUR 500 FT W20-2		
N ROAD CLOSED AHEAD W20-3	O ROAD CLOSED 1000 FT W20-3	P ROAD CLOSED 500 FT W20-3		
Q ROAD CLOSED R11-2	R DETOUR M4-10(L)	S DETOUR M4-10(R)		
T ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY R11-3a	U BRIDGE OUT XX MILES AHEAD LOCAL TRAFFIC ONLY R11-3b	V ROAD CLOSED TO THRU TRAFFIC R11-4		
W	X			

GENERAL NOTES

1. 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.)
2. 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.)
3. DESIGN OF ALL SIGNS SHALL BE IN ACCORDANCE WITH THE FHWA STANDARD HIGHWAY SIGNS BOOK.
4. 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.
5. SIGNS NO LONGER IN USE SHALL BE COMPLETELY COVERED WITH NO RETROREFLECTIVE MATERIAL SHOWING, OR SHALL BE REMOVED, AS DIRECTED BY THE ENGINEER.
6. 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.
7. SIGNS "N" THROUGH "Q" AND "T" AND "V", THE WORD "ROAD" SHOULD BE CHANGED TO "RAMP", "RR XING", OR "BRIDGE" WHERE APPLICABLE.
8. WARNING SIGNS AND DETOUR TRAILBLAZERS SHALL BE MOUNTED ON BREAKAWAY POSTS AND HAVE RETROREFLECTIVE FLUORESCENT ORANGE SHEETING.
9. "W" BARRICADES SHALL COMPLETELY RUN THE FULL WIDTH OF THE ROADWAY.
10. BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.

DETOUR PLAN (PHASE IV, STAGE 4)
BOWERS BEACH ROAD "NIGHTTIME" DETOUR

RECOMMENDED _____ DATE: 11-21-14	RECOMMENDED _____ DATE: 11/20/14	RECOMMENDED _____ DATE: 11/17/14	APPROVED CHIEF SAFETY OFFICER _____ DATE: 11-21-14

APPROVED TRAFFIC ENGINEER _____ DATE: 11/21/14

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUM / REVISIONS

NOT TO SCALE

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	T200412202
COUNTY	KENT
PERMIT NO.	-
DESIGNED BY:	EBS
CHECKED BY:	BAM

DETOUR PLAN

SHEET NO.	458
TOTAL SHTS.	641

11/20/2014
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PORTABLE CHANGEABLE MESSAGE SIGNS

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

PCMS-1

BARRATTS CHAPEL ROAD

TO CLOSE STARTING XX/XX/XX

DURING DETOUR
(DISPLAY FOR 5 DAYS AFTER IMPLEMENTATION OF DETOUR)

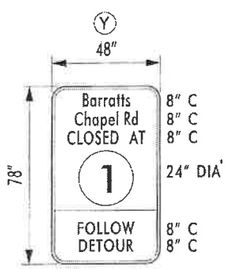
PCMS-1

BARRATTS CHAPEL ROAD

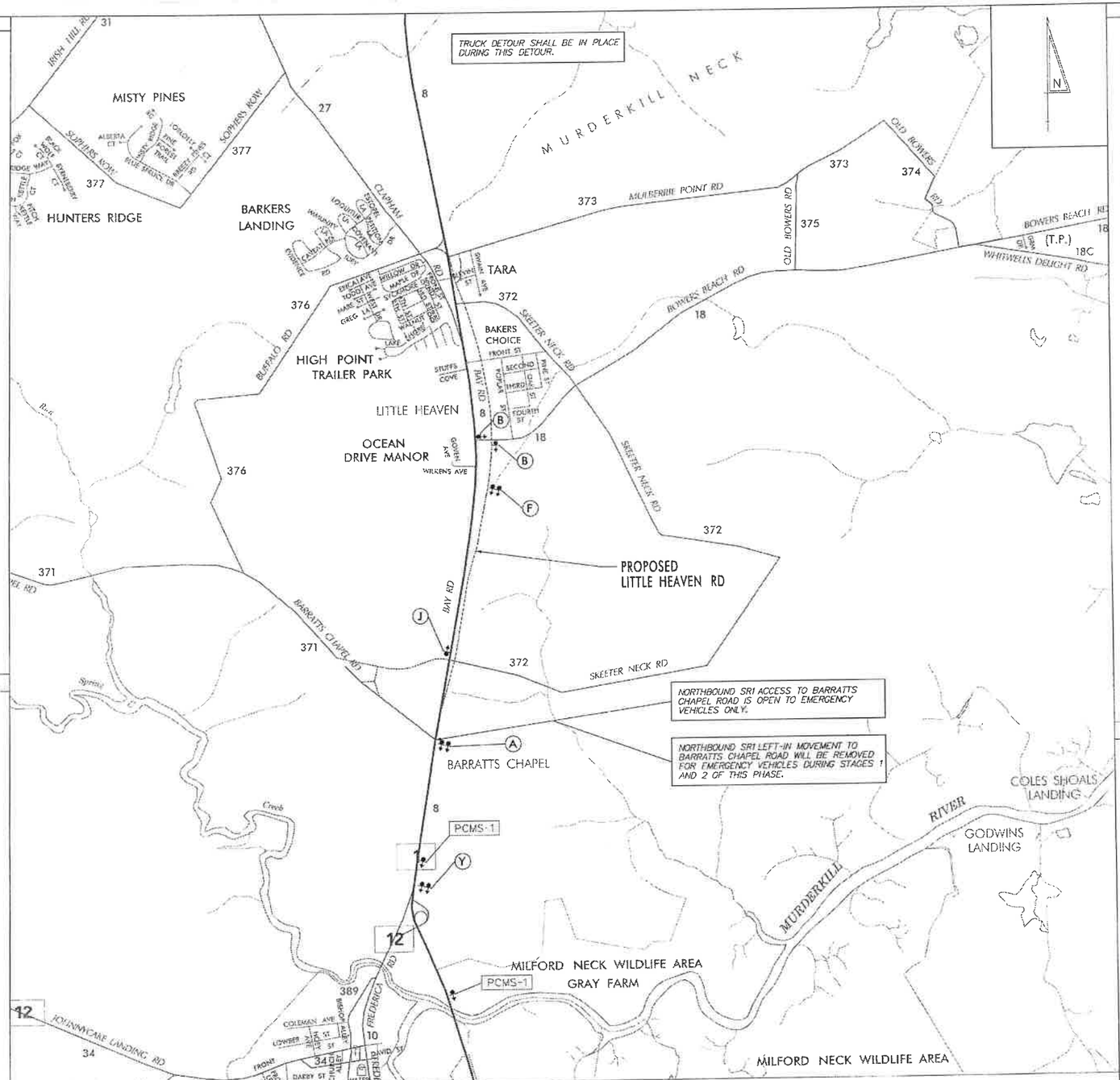
CLOSED FOLLOW DETOUR

SPECIAL SIGNS

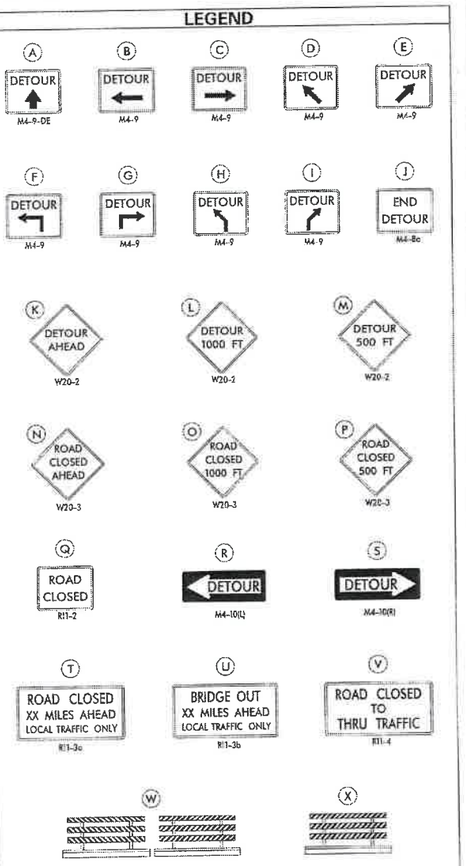
(Y)



FLUORESCENT ORANGE BACKGROUND WITH 8" BLACK LEGEND



LEGEND



GENERAL NOTES

1. 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.)
2. 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.)
3. DESIGN OF ALL SIGNS SHALL BE IN ACCORDANCE WITH THE FHWA STANDARD HIGHWAY SIGNS BOOK.
4. 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.
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9. "W" BARRICADES SHALL COMPLETELY RUN THE FULL WIDTH OF THE ROADWAY.
10. BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.

DETOUR PLAN (PHASE IV)
BARRATTS CHAPEL ROAD DETOUR

*ROUTE SHIELDS TO BE BLACK LEGEND ON WHITE BACKGROUND

RECOMMENDED	DATE: 11-21-14	RECOMMENDED	DATE: 11/20/14	RECOMMENDED	DATE: 11/19/14
APPROVED CHIEF SAFETY OFFICER	DATE: 11-21-14	APPROVED TRAFFIC ENGINEER	DATE: 11/21/14		

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUM / REVISIONS

NOT TO SCALE

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	PERMIT NO.	-
T200412702	DESIGNED BY:	EBS
COUNTY	CHECKED BY:	BKM
KENT		

DETOUR PLAN

SHEET NO.	
	458
TOTAL SHTS.	
	641

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05/06/2015 12:40:37

PORTABLE CHANGEABLE MESSAGE SIGNS

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

PCMS-1

CLAPHAM ROAD TO CLOSE

STARTING XX/XX/XX

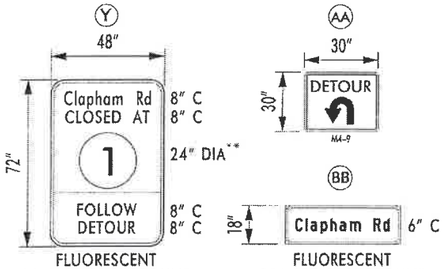
DURING DETOUR
(DISPLAY FOR 5 DAYS AFTER IMPLEMENTATION OF DETOUR)

PCMS-1

CLAPHAM ROAD CLOSED

AT SR 1 FOLLOW DETOUR

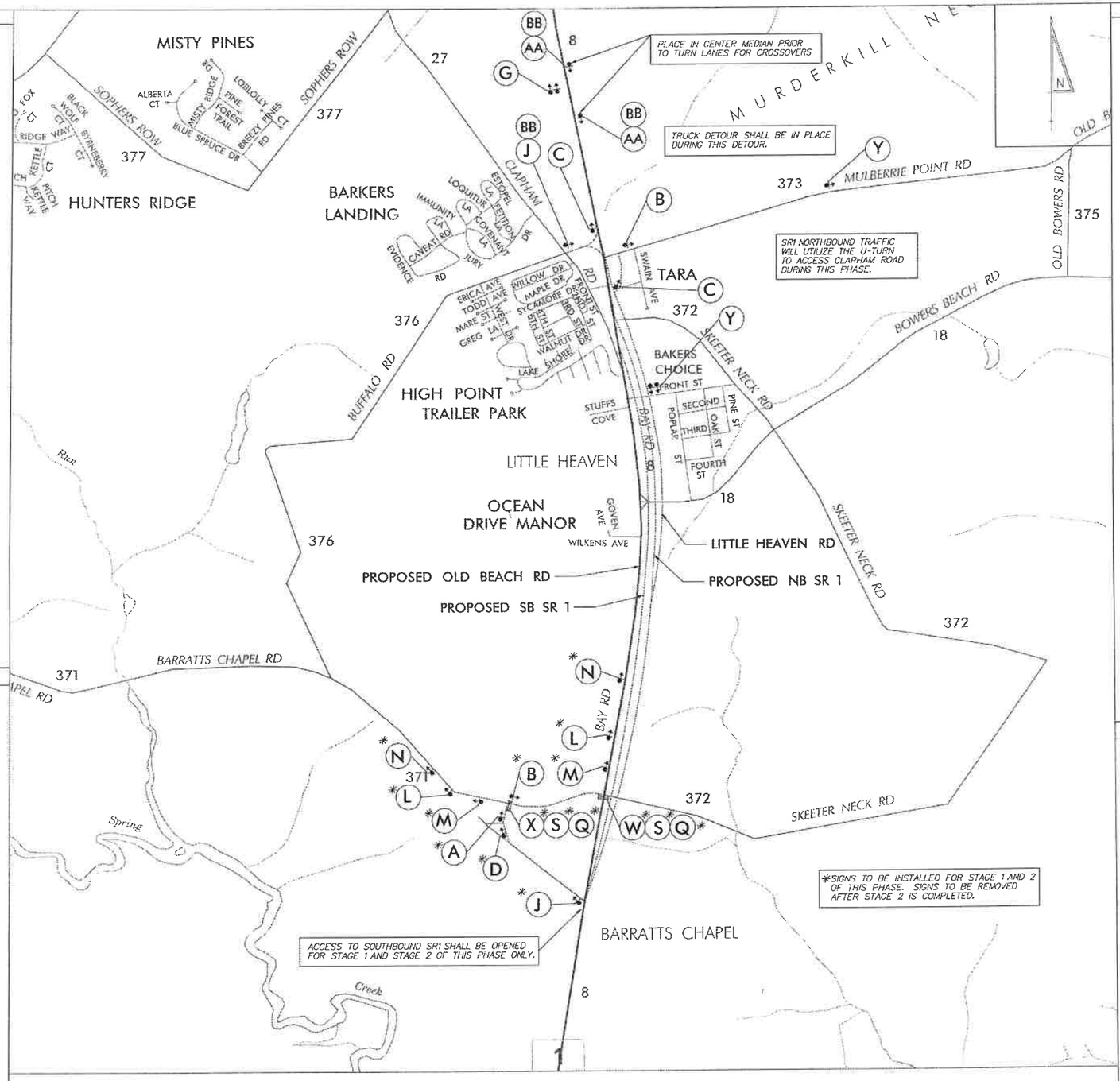
SPECIAL SIGNS



FLUORESCENT ORANGE BACKGROUND WITH 8" BLACK LEGEND

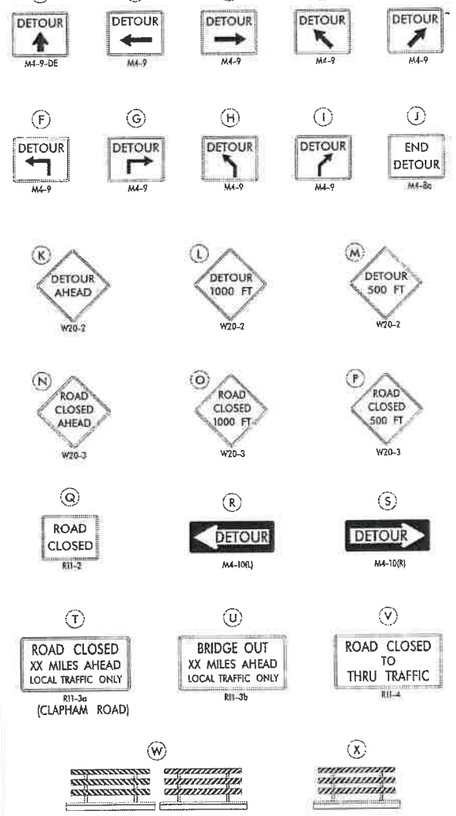
FLUORESCENT ORANGE BACKGROUND WITH 6" BLACK LEGEND

**ROUTE SHIELDS TO BE BLACK LEGEND ON WHITE BACKGROUND



DETOUR PLAN (PHASE V)
CLAPHAM ROAD DETOUR

LEGEND



GENERAL NOTES

1. 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).
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8. WARNING SIGNS AND DETOUR TRAILBLAZERS SHALL BE MOUNTED ON BREAKAWAY POSTS AND HAVE RETROREFLECTIVE FLUORESCENT ORANGE SHEETING.
9. "W" BARRICADES SHALL COMPLETELY RUN THE FULL WIDTH OF THE ROADWAY.
10. BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.

RECOMMENDED _____ DATE: 11-21-14

RECOMMENDED _____ DATE: 11/20/14

RECOMMENDED _____ DATE: 11/20/14

APPROVED CHIEF SAFETY OFFICER _____ DATE: 11-21-14

APPROVED TRAFFIC ENGINEER _____ DATE: 11/21/14

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUM / REVISIONS

NOT TO SCALE

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	T200612202	PERMIT NO. -
COUNTY	KENT	DESIGNED BY: EBS
		CHECKED BY: BAM

DETOUR PLAN

SHEET NO. 480

TOTAL SHTS. 641

DATE/TIME: 11/21/2014 10:58:19 AM
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PLOT SCALE: 1.0000 '/ Inch
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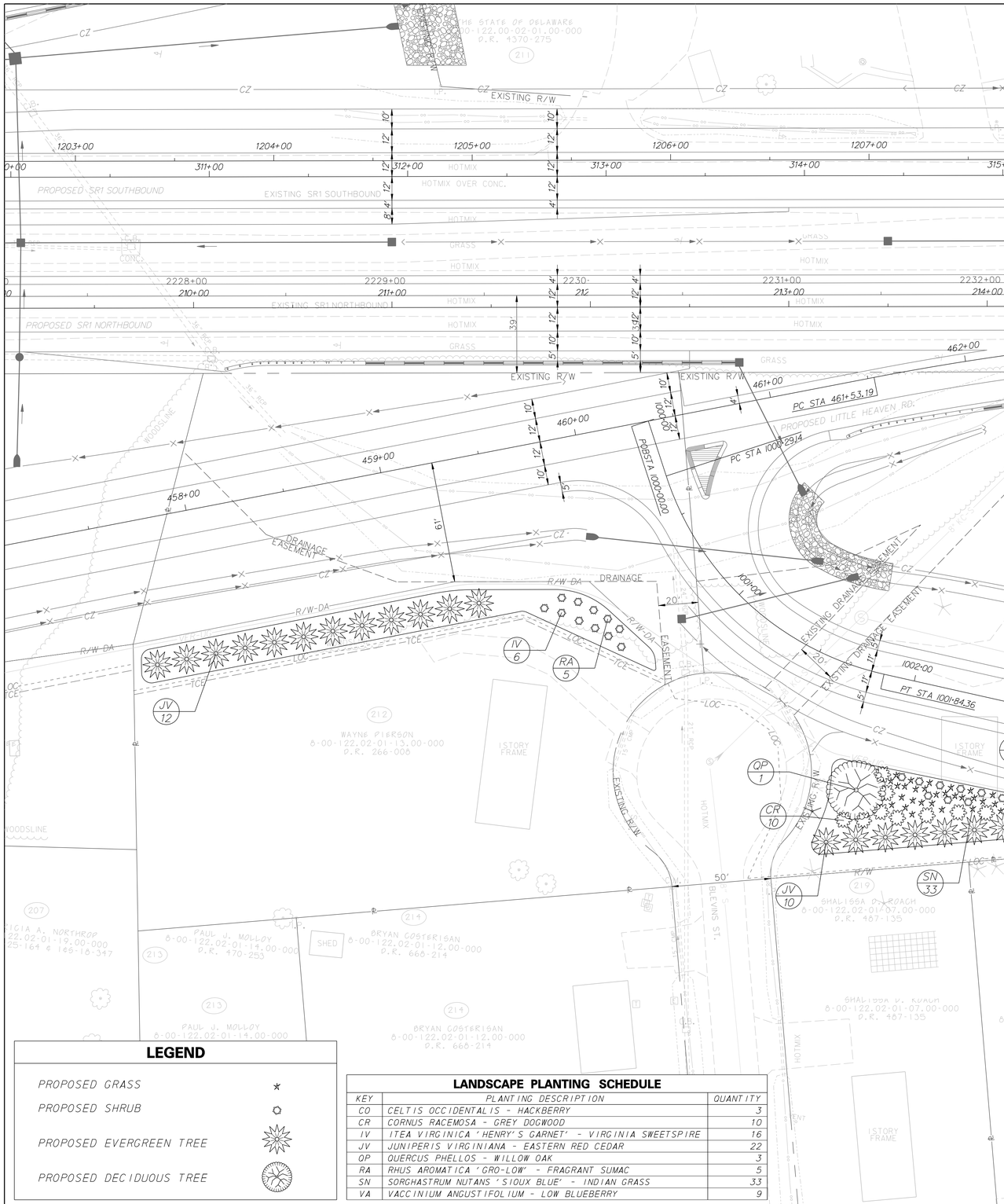

LANDSCAPE PLANTING SUMMARY SCHEDULE

KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	COMMENTS
AN	14	ACER NEGUNDO	BOX ELDER	2" CALIPER, B&B	25' O.C.	
AR	38	ACER RUBRUM	RED MAPLE	3" CALIPER, B&B	35' O.C.	SEE NOTE 7
AS	3	ACER SACCHARINUM	SILVER MAPLE	3" CALIPER, B&B	35' O.C.	
CC	14	CARPINUS CAROLINA	HORNBEAM	2" CALIPER, B&B	25' O.C.	
CO	17	CELTIS OCCIDENTALIS	HACKBERRY	3" CALIPER, B&B	35' O.C.	SEE NOTE 7
CR	10	CORNUS RACEMOSA	GREY DOGWOOD	24" CONTAINER	10' O.C.	
IV	16	ITEA VIRGINICA 'HENRY'S GARNET'	VIRGINIA SWEETSPIRE	24" CONTAINER	10' O.C.	
JV	22	JUNIPERIS VIRGINIANA	EASTERN RED CEDAR	6' HEIGHT, B&B	15' O.C.	
OO	10	QUERCUS PALUSTRIS	PIN OAK	3" CALIPER, B&B	35' O.C.	
OP	17	QUERCUS PHELLOS	WILLOW OAK	3" CALIPER, B&B	35' O.C.	SEE NOTE 7
PS	20	PINUS STROBUS	EASTERN WHITE PINE	6' HEIGHT, B&B	30' O.C.	
RA	5	RHUS AROMATICA 'GRO-LOW'	FRAGRANT SUMAC	24" CONTAINER	10' O.C.	
SN	33	SORGHASTRUM NUTANS 'SIOUX BLUE'	INDIAN GRASS	PLUG	3' O.C.	
VA	9	VACCINIUM ANGUSTIFOLIUM	LOW BLUEBERRY	24" CONTAINER	10' O.C.	

NOTES:

1. PLANTING PLAN SHEETS ARE FOR INFORMATIONAL PURPOSES ONLY. LANDSCAPING TO BE FURNISHED AND INSTALLED BY OTHERS UNDER A SEPARATE CONTRACT.

LEGEND

- PROPOSED GRASS
- PROPOSED SHRUB
- PROPOSED EVERGREEN TREE
- PROPOSED DECIDUOUS TREE

LANDSCAPE PLANTING SCHEDULE

KEY	PLANTING DESCRIPTION	QUANTITY
CO	CELTIS OCCIDENTALIS - HACKBERRY	3
CR	CORNUS RACEMOSA - GREY DOGWOOD	10
IV	ITEA VIRGINICA 'HENRY'S GARNET' - VIRGINIA SWEETSPIRE	16
JV	JUNIPERIS VIRGINIANA - EASTERN RED CEDAR	22
OP	QUERCUS PHELLOS - WILLOW OAK	3
RA	RHUS AROMATICA 'GRO-LOW' - FRAGRANT SUMAC	5
SN	SORGHASTRUM NUTANS 'SIOUX BLUE' - INDIAN GRASS	33
VA	VACCINIUM ANGUSTIFOLIUM - LOW BLUEBERRY	9

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

LANDSCAPING PLANS 1 OF 6

SHEET NO. 461

TOTAL SHTS. 641

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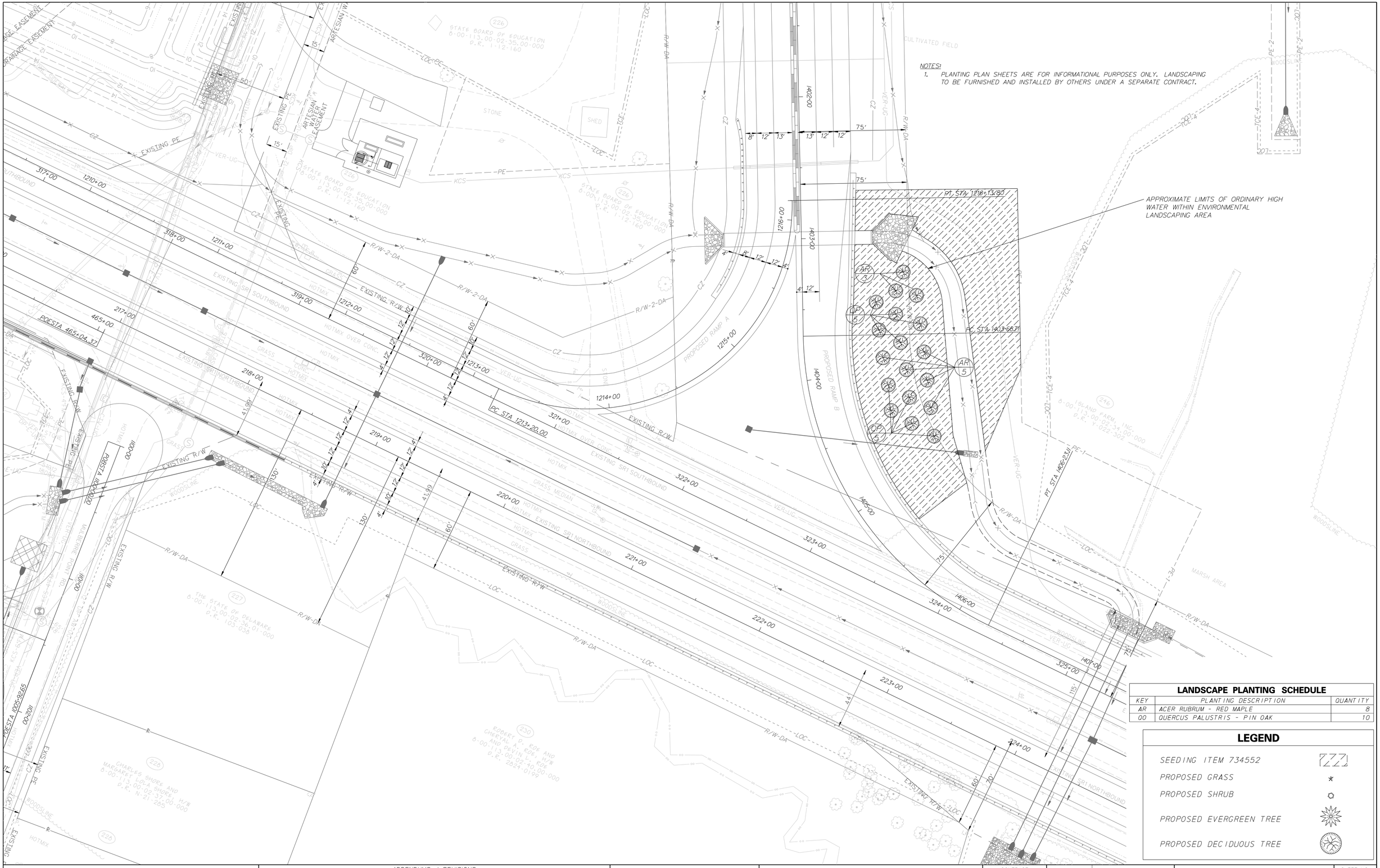
NOTES:

1. PLANTING PLAN SHEETS ARE FOR INFORMATIONAL PURPOSES ONLY. LANDSCAPING TO BE FURNISHED AND INSTALLED BY OTHERS UNDER A SEPARATE CONTRACT.



LANDSCAPE PLANTING SCHEDULE

KEY	PLANTING DESCRIPTION	QUANTITY
AR	ACER RUBRUM - RED MAPLE	8
OO	QUERCUS PALUSTRIS - PIN OAK	10

LEGEND

SEEDING ITEM 734552

PROPOSED GRASS

PROPOSED SHRUB

PROPOSED EVERGREEN TREE

PROPOSED DECIDUOUS TREE

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

LANDSCAPING PLANS 2 OF 6

SHEET NO. 462

TOTAL SHTS. 641

12/1/2014
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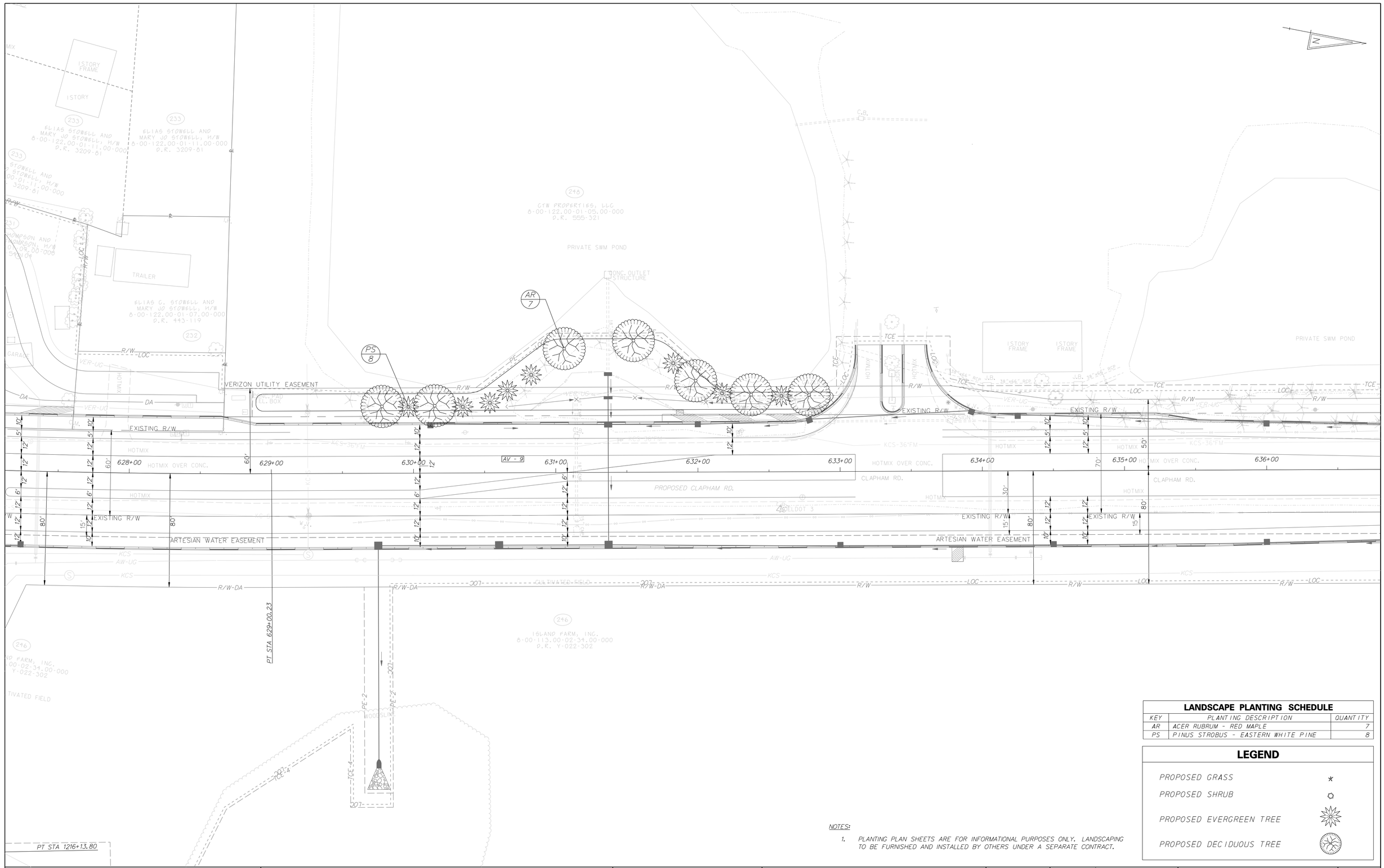

LANDSCAPE PLANTING SCHEDULE

KEY	PLANTING DESCRIPTION	QUANTITY
AR	ACER RUBRUM - RED MAPLE	7
PS	PINUS STROBUS - EASTERN WHITE PINE	8

LEGEND

PROPOSED GRASS *

PROPOSED SHRUB ○

PROPOSED EVERGREEN TREE

PROPOSED DECIDUOUS TREE

NOTES:

1. PLANTING PLAN SHEETS ARE FOR INFORMATIONAL PURPOSES ONLY. LANDSCAPING TO BE FURNISHED AND INSTALLED BY OTHERS UNDER A SEPARATE CONTRACT.

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

LANDSCAPING PLANS 3 OF 6

SHEET NO.
463
TOTAL SHTS.
641

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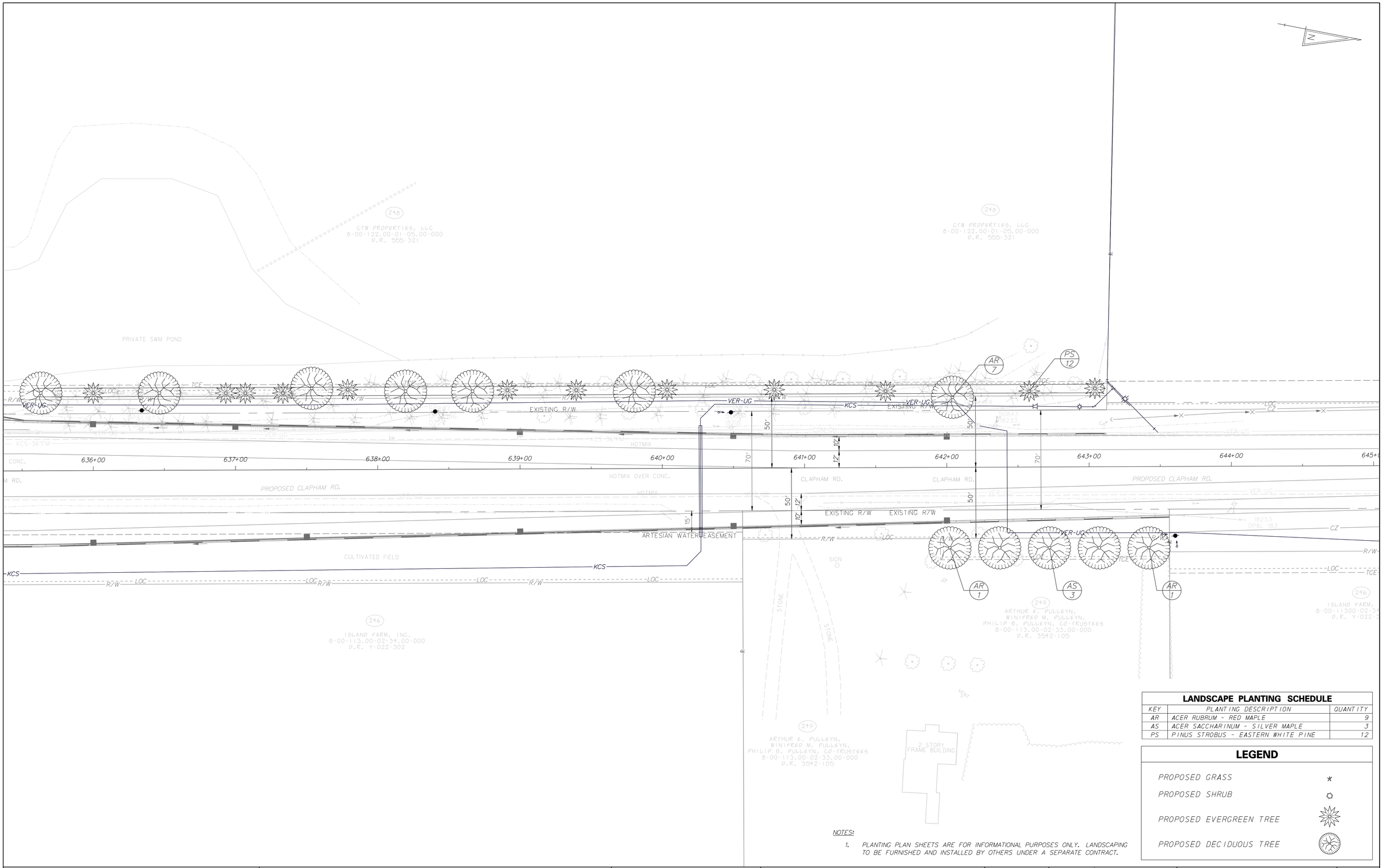

LANDSCAPE PLANTING SCHEDULE

KEY	PLANTING DESCRIPTION	QUANTITY
AR	ACER RUBRUM - RED MAPLE	9
AS	ACER SACCHARINUM - SILVER MAPLE	3
PS	PINUS STROBUS - EASTERN WHITE PINE	12

LEGEND

PROPOSED GRASS *

PROPOSED SHRUB ○

PROPOSED EVERGREEN TREE

PROPOSED DECIDUOUS TREE

NOTES:

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DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE
0 30 60 90
FEET

SR1, LITTLE HEAVEN
GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

LANDSCAPING PLANS
4 OF 6

SHEET NO.
464
TOTAL SHTS.
641

12/1/2014
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PROPOSED SR1 SOUTHBOUND

PROPOSED SR1 NORTHBOUND

GRASS FIELD

PROPOSED LITTLE HEAVEN RD.

HEDGEROW

1STORY

154+13.52

155+00

156+00

157+00

158+00

159+00

160+00

161+00

162+00

419+00

420+00

421+00

422+00

423+00

424+00

425+00

426+00

427+00

95'

CZ

LOC

R/W

℄

FORESTATION AREA:
THE HATCHED AREA SHOWN ON THIS PLAN IS PART OF THE FORESTATION AREA. THE FORESTATION AREA SHALL BE PLANTED WITH 2" CALIPER B&B TREES. TREE SPECIES AND QUANTITY SHALL BE COMPOSED OF THE SPECIES LISTED IN THE LANDSCAPING SCHEDULE FOR THIS SHEET. TREES SHALL BE ARRANGED IN GROUPS OF 3, 4, OR 5, BY SPECIES.

(136) STATE OF DELAWARE 22.00-02-39.00-000 D.R. 4751-239

(137) THE STATE OF DELAWARE 8-00-122.00-02-23.00-000 D.R. 8-55-198

(135) THE STATE OF DELAWARE 8-00-122.00-02-40.00-000 D.R. B-32-166 & 19-21-138

(131) SKEETER NECK LAND COMPANY, LLC 8-00-122.00-02-48.00-000 D.R. D-384-60

(148) SHARON E. CONLEY 8-00-122.00-02-23.01-000 D.R. W-047-0349 165 24-169

(146) THE STATE OF DELAWARE 8-00-122.00-02-22.00-000 D.R. 166-24

NOTES:

1. PLANTING PLAN SHEETS ARE FOR INFORMATIONAL PURPOSES ONLY. LANDSCAPING TO BE FURNISHED AND INSTALLED BY OTHERS UNDER A SEPARATE CONTRACT.

LANDSCAPE PLANTING SCHEDULE

KEY	PLANTING DESCRIPTION	QUANTITY
AR	ACER RUBRUM - RED MAPLE	14
AN	ACER NEGUNDO - BOX ELDER	14
CC	CARPINUS CAROLINA - HORNBEAM	14
CO	CELTIS OCCIDENTALIS - HACKBERRY	14
OP	QUERCUS PHELLOS - WILLOW OAK	14

LEGEND

PROPOSED GRASS *

PROPOSED SHRUB ☼

PROPOSED EVERGREEN TREE

PROPOSED DECIDUOUS TREE

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE
0 30 60 90
FEET

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

LANDSCAPING PLANS 5 OF 6

SHEET NO.
465
TOTAL SHTS.
641

FORESTATION AREA:
THE HATCHED AREA SHOWN ON THIS PLAN IS PART OF THE FORESTATION AREA. THE FORESTATION AREA SHALL BE PLANTED WITH MIXED HARDWOOD TREES AT A RATE OF 700 TREES PER ACRE. PLANTING OF THIS AREA IS NOT PART OF THIS CONTRACT AND SHALL BE PERFORMED BY OTHERS DURING PLANTING OF THE WETLAND MITIGATION SITE.

NOTE: LANDSCAPING OF WETLAND MITIGATION SITE IS NOT INCLUDED UNDER THIS CONTRACT.

LEGEND

PROPOSED GRASS	*
PROPOSED SHRUB	○
PROPOSED EVERGREEN TREE	
PROPOSED DECIDUOUS TREE	

DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE
0 30 60 90
FEET

SR1, LITTLE HEAVEN
GRADE SEPARATED INTERSECTION

CONTRACT	T200412202
COUNTY	KENT
BRIDGE NO.	-
DESIGNED BY:	SFP
CHECKED BY:	WFC

LANDSCAPING PLANS
6 OF 6

SHEET NO.	466
TOTAL SHTS.	641

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LIGHTING PROJECT NOTES:

1. 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. ALL COSTS INCIDENTAL TO THE ITEMS INSTALLED.

2. ALL CONDUITS, JUNCTION WELLS, LIGHTING STANDARDS, ETC., SHALL BE STAKED OUT BY THE CONTRACTOR AND EVERY LOCATION APPROVED BY THE ENGINEER BEFORE ANY WORK IS DONE. ALL COSTS PAID UNDER CONSTRUCTION ENGINEERING.

3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO WORK.

4. THE LIGHTING CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL THE CONTRACTORS INVOLVED ON THIS PROJECT. THE LIGHTING CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND THE GENERAL SUPERINTENDENT ON THE LOCATIONS OF ALL CONDUIT, JUCTION WELLS AND POLE BASES TO ELIMINATE CONSTRUCTION CONFLICTS.

5. EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXACT LOCATIONS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES BY HAND EXCAVATION PRIOR TO TRENCHING BY MACHINE. THE CONTRACTOR SHALL OBTAIN ALL AVAILABLE AS-BUILT INFORMATION PRIOR TO ANY EXCAVATION.

6. AT ALL LOCATIONS WHERE THE INSTALLATION OF CONDUITS REQUIRES CROSSING OF EXISTING UNDERDRAINS, THE CONTRACTOR SHALL HAND EXCAVATE. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO AVOID EXISTING UNDERDRAINS WHERE POSSIBLE. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IN CASES OF INADVERTENT DAMAGE TO AN EXISTING UNDERDRAIN LINE OR STRUCTURE. ALL REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE ENGINEER. REPAIR COSTS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

7. TERMINATE ALL CONDUITS WHEN ENTERING ENCLOSURES WITH LOCKNUT AND BONDING BUSHINGS. ALL OTHER CONDUITS SHALL BE PROVIDED WITH BONDING BUSHINGS.

8. COLOR CODING SHALL BE PROVIDED THROUGHOUT THE ENTIRE NETWORK FOR SERVICE, FEEDER, BRANCH AND CONTROL CONDUCTORS. EACH PHASE SHALL BE AN INDEPENDENT COLOR. CONDUCTORS SHALL HAVE FACTORY IMPREGNATED COLOR THROUGHOUT THEIR ENTIRE LENGTH.

9. ALL FUSED CONNECTIONS SHALL BE MADE IN THE POLE BASE. SPLICES IN JUNCTION BOXES OR PULL BOXES SHALL NOT BE FUSED.

10. ALL CONDUITS SHALL BE BONDED IN A CONTINUOUS RUN FROM THE SOURCE BY A BARE COPPER GROUNDING CONDUCTOR WITH SIZE AS NOTED ON PLANS.

11. ALL STATION, OFFSET AND DIMENSION INFORMATION SHOWN FOR PROPOSED LIGHTING STANDARDS IS TO THE CENTER OF THE PROPOSED POLE BASE. CENTER OF CONDUIT TRENCH SHALL BE RUN IN A STRAIGHT LINE BETWEEN THE LIGHTING STANDARDS, WHERE POSSIBLE. ALL THE TRENCHING, BACKFILL, AND COMPACTION SHALL BE CONSIDERED INCIDENTAL TO THE PROVISION OF THE CONDUIT.

12. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF LIGHTING CONDUITS WITH ITMS CONDUITS. ITMS AND LIGHTING CONDUITS MAY SHARE A COMMON TRENCH BUT SHALL NOT SHARE COMMON JUNCTION WELLS.

13. ALL PROPOSED ROADWAY LIGHTING CONDUITS (SERVICE RUNS) SHALL BE SCHEDULE 80 PVC UNDER PAVEMENT OR SODDED TRENCH AND HDPE CONDUIT FOR BORING WITH ONE, SIZE #6 MIN. CONTINUOUS GREEN GROUNDING ELECTRODE CONDUCTOR INSTALLED IN EACH AND EVERY ROADWAY LIGHTING CONDUIT. THE SERVICE CONDUIT GROUND WIRE TO BE SIZED IN ACCORDANCE WITH CURRENT N.E.C. CONTRACTOR SHALL SUBMIT FINAL LIGHTING CIRCUIT AND WIRING DESIGN FOR APPROVAL BY ENGINEER. ALL COSTS INCIDENTAL TO THE LIGHTING ITEMS.

14. SPLICES FOR ALL ROADWAY LIGHTING ELECTRICAL CABLES SHALL BE COMPLETED USING APPROVED SPLICE KITS OR METHODS APPROVED BY THE ENGINEER AND SHALL BE INCIDENTAL TO THE SUPPLY AND INSTALLATION OF THE VARIOUS ROADWAY LIGHTING ELECTRICAL CABLES. CONDUCTORS SHALL NOT BE SPLICED EXCEPT IN THE POLE BASES, HANDBOXES, AND JUNCTION WELLS. THE CONTRACTOR SHALL INCLUDE 10' OF EACH CONDUCTOR BE STORED IN THE JUNCTION WELL FOR FUTURE USE.

15. ALL PROPOSED LIGHTING STANDARDS SHALL BE INSTALLED WITH BREAKAWAY TRANSFORMER BASES WHETHER PROTECTED BY TRAFFIC BARRIER OR UNPROTECTED.

16. ALL LIGHTING BASES WILL CONTAIN TWO 2" SCHEDULE 80 PVC CONDUIT SWEEPS WHICH SHALL BE INCLUDED IN THE COST OF THE BASE. THIS INCLUDES POLES AT THE END OF A CONDUIT RUN. ANY SWEEP NOT USED WILL BE CAPPED IN THE GROUND. AN ARROW SHALL BE PLACED IN THE BASE SURFACE INDICATING WHERE CONDUITS LEAVE THE BASE.

17. ALL LIGHTING CONTROL CENTERS SHALL BE INSTALLED ON TYPE "R" CABINET BASES. SEE STANDARD CONSTRUCTION DETAILS.

18. USE A 90 DEGREE ELBOW WITH A 24" RADIUS FOR CONDUIT SWEEPS INTO POLE FOUNDATIONS. CONDUIT SWEEPS INTO LIGHTING CONTROL PANELS SHALL BE 4" DIAMETER WITH A 90 DEGREE BEND AND 30" RADIUS. ALL 90 DEGREE CONDUIT SWEEPS SHALL BE MANUFACTURED, FIELD BENDS ARE NOT ACCEPTABLE.

19. CONDUIT SWEEPS AT LIGHTING CONTROL PANELS SHALL BE CONSIDERED INCIDENTAL TO THE LIGHTING ITEMS. CONTRACTOR SHALL PROVIDE FOUR (4) 4" CONDUIT SWEEPS (CAPPED AT BOTH ENDS) IN EACH CONCRETE PAD.

20. ALL LIGHTING STANDARDS SHALL BE INSTALLED ON TYPE 6 POLE BASES. SEE STANDARD CONSTRUCTION DETAILS FOR LIGHTING STANDARD POLE BASE DETAILS.

21. ALL CONCRETE SHALL BE CLASS B, UNLESS OTHERWISE NOTED.

22. IN STABLE SOIL, FORMS BELOW 12" FROM THE SURFACE ARE NOT REQUIRED. ALL BASES SHALL BE EDGED AND HAVE A BROOM FINISH.

23. AUGERED HOLES FOR THE CONSTRUCTION OF THE POLE FOUNDATION SHALL REMAIN OPEN UNTIL THE CONCRETE FOUDATION IS POURED USING TEMPORARY METAL CASINGS, OR AN EQUIVALENT METHOD. THE CONTRACTOR SHALL BE REQUIRED TO HAVE AN AUGERING METHOD AND RELATED EQUIPMENT APPROVED BY THE ENGINEER PRIOR TO STARTING THE CONSTRUCTION OF THE POLE FOUDATIONS. DROPPING THE CONCRETE A DISTANCE OF MORE THAN 5 FEET WILL NOT BE PERMITTED. THE CONTRACTOR SHALL BE REQUIRED TO HAVE A CONCRETE PLACEMENT METHOD APPROVED BY THE ENGINEER PRIOR TO STARTING THE CONSTRUCTION OF THE POLE FOUNDATIONS.

24. ALL FOUNDATION EXCAVATIONS SHALL BE POURED IN THE SAME DAY OR THE HOLE SHALL BE COVERED AND DEWATERED BEFORE POURING. THE CONTRACTOR SHALL MAKE ANY AND ALL ADJUSTMENTS AS NECESSARY IN THE EVENT THAT HIGH GROUNDWATER OR UNSTABLE SOIL IS ENCOUNTERED. CONTRACTOR SHALL DIRECT ALL SEDIMENT LADEN WATER TO AN APPROVED SEDIMENT TRAPPING DEVICE PRIOR TO RELEASING IT TO ANY CATCH BASIN, STORM DRAIN, OR WATER COURSE.

25. REINFORCING BARS SHALL CONFORM TO A.S.T.M. A615, GRADE 60. WHERE HORIZONTAL BARS AND VERTICAL BARS INTERSECT, THEY WILL BE WIRED TOGETHER. NO WELDING WILL BE ACCEPTED.

26. THE ANCHOR SYSTEM FOR POLE BASES WILL BE SUPPLIED BY THE CONTRACTOR AND INCLUDE IN THE COST OF THE BASE.

27. ANCHOR BOLTS, NUTS, AND HEX BOLTS WILL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH THE LATEST A.S.T.M SPECIFICATIONS.

28. WHERE CONDUIT HAS PREVIOUSLY BEEN INSTALLED, THE CONNECTION TO THE CONDUIT IN THE BASE WILL BE MADE BEFORE POURING CONCRETE.

29. MOUNTING HEIGHT SHALL BE MEASURED FROM THE CENTER LINE OF THE LUMINAIRE TO THE TOP OF THE ROADWAY AT THE SHOULER LINE.

30. THE EXISTING ELECTRICAL CABLES IN ALL CONDUITS DESIGNATED TO BE ABANDONED SHALL BE REMOVED. ALL COSTS INCIDENTAL TO THE CONTRACT.

31. ALL LIGHTING POLE BASES FOR EXISTING LIGHTING STANDARDS DESIGNATED TO BE REMOVED OR RELOCATED SHALL BE REMOVED A MINIMUM OF 12" BELOW GRADE. PAYMENT SHALL BE MADE UNDER ITEM 211000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS.

32. THE CONTRACTOR SHALL VERIFY THE OPERATING CIRCUIT AND PHASE OF ALL EXISTING ROADWAY LIGHTING EQUIPMENT WHERE THE ELECTRICAL SERVICE IS BEING INTERUPTED. THE EXISTING ROADWAY LIGHTING EQUIPMENT SHALL BE RECONNECTED TO THE SAME CIRCUIT AND PHASE AS IS EXISTING UNLESS OTHERWISE NOTED ON PLANS.

33. ALL JUNCTION WELL FRAMES AND COVERS TO BE BONDED TOGETHER, BONDED TO CIRCUIT GROUND WIRE IN CONDUITS, ALL METAL PARTS INSIDE OF THE JUNCTION WELL AND EACH STEEL CONDUIT IF STEEL IS USED. MINIMUM BOND WIRE SIZE #6 COPPER STRANDED. SEE DELDOT STANDARD CONSTRUCTION DETAILS.

34. ALL CONDUIT JUNCTION WELLS CONSTRUCTED WITHIN PAVEMENTS, SIDEWALKS, ECT. WILL BE CONSTRUCTED FLUSH WITH THE SURFACE OF THE SAME. INSTALLATIONS IN UNPAVED AREAS WILL BE CONSTRUCTED SUCH THAT THE TOP OF THE COVER IS ONE INCH ABOVE FINAL GRADE. SURROUNDING AREA SHALL BE GRADED TO DRAIN AWAY FROM CONDUIT JUNCTION WELL. ALL COSTS INCIDENTAL TO THE ITEMS INSTALLED.

35. ALL JUNCTION WELLS ARE TO BE LOCATED 4' BEHIND LIGHT POLE UNLESS OTHERWISE INDICATED ON THE PLANS OR AS DIRECTED IN THE FIELD BY THE ENGINEER.

36. CAST IRON FRAMES AND/OR COVERS WILL CONFORM TO STANDARD SPECIFICATIONS SECTION 708.05, CASTINGS, AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONDUIT JUCTION WELLS.

37. IN ALL JUNCTION WELLS AND POLE BASES, THE CONTRACTOR SHALL LABEL ALL BRANCH CIRCUIT CONDUCTORS WITH THEIR RESPECTIVE BRANCH CIRCUIT NUMBERS AND LIGHTING PANELS: 3(ON), 7(AS), ECT. INCIDENTAL TO ALL LIGHTING ITEMS.

38. POLES AND TRANSFORMER BASES SHALL HAVE STRUCTURAL CAPABILITIES EQUAL TO OR EXCEEDING THOSE INTENDED BY THE LATEST EDITION OF A.A.S.H.T.O.'S "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGN, LUMINAIRE, AND TRAFFIC SIGNALS".

39. HANDHOLES SHALL BE INSTALLED ON THE SIDE OF THE LIGHTING POLE SUCH THAT THE CENTERLINE OF THE HANDHOLE COVER WILL BE PLACED SUCH THAT MAINTAINER FACES ONCOMING TRAFFIC.

40. INDENTIFICATION TAG SHALL BE LOCATED ON THE QUADRANT OF THE SURFACE OF THE POLE THAT FACES ONCOMING TRAFFIC.

41. AT LOCATIONS WHERE CONTRACTOR IS WORKING AT OR NEAR EXISTING LIGHTING SERVICES THERE SHALL BE NO OVERNIGHT LIGHTING OUTAGES.

42. ALL ELECTRICAL WORK TO MEET CURRENT N.E.C. REQUIREMENTS AND DELDOT STANDARDS AND SPECIFICATIONS AT THE TIME OF BID.

43. ALL ELECTRICAL WORK SHALL BE INSPECTED AND PASSED BY AN ELECTRICAL INSPECTION AGENCY WHICH IS LICENSED IN THE STATE OF DELAWARE. ALL COSTS INCIDENTAL TO THE LIGHTING ITEMS.

44. CONTRACTOR WILL BE RESPONSIBLE FOR CONTACTING DELDOT TO INITIATE SERVICE APPLICATION AT LEAST 90 DAYS BEFORE POWER IS REQUIRED ON THE PROJECT. ALL POWER COSTS DURING CONSTRUCTION WILL BE AT THE CONTRACTOR'S EXPENSE.

45. THE PROPOSED LIGHTING CIRCUIT AND PANEL DESIGNS ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL SUBMIT A CIRCUIT, PANEL AND WIRING DIAGRAM FOR APPROVAL BY THE ENGINEER, PRIOR TO CONSTRUCTION. THE DIAGRAMS SHALL BE SEALED BY AN ELECTRICAL ENGINEER AND MEET ALL DELDOT AND ELECTRIC CODE REQUIREMENTS. ALL COSTS FOR SHOP DRAWINGS AND WIRING DIAGRAMS ARE INCIDENTAL TO THE LIGHTING ITEMS.

ITMS PROJECT NOTES:

1. ALL EXISTING JUNCTION WELLS TO REMAIN SHALL BE GROUNDED AND BONDED. ALL COSTS ARE INCIDENTAL TO THE ITEM BEING INSTALLED.

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DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SR1, LITTLE HEAVEN
GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-	SHEET NO.
T200412202	DESIGNED BY:	SFP	467
COUNTY	CHECKED BY:	WFC	TOTAL SHTS.
KENT			641

LIGHTING NOTES

POLE SCHEDULE

POLE NO.	TYPE OF POLE	MAST ARM LENGTH	LUMINAIRE WATTAGE	TYPE OF BASE	STATION LOCATION		NOTES
					STATION	OFFSET	
1	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	528+75	27'L	
2	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	531+00	27'L	
3	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	533+00	27'L	
4	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	535+00	27'L	
5	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	536+50	27'L	
6	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	538+00	27'L	
7	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	539+50	27'L	
8	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	541+50	27'L	
9	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	119+50	64'L	
10	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	543+50	27'L	
11	30' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	722+75	27'R	
12	30' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	720+75	27'R	
13	30' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	545+00	37'L	
14	30' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	547+00	33'L	
15	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	798+85	17'L	
16	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	111+00	64'R	
17	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	113+00	64'R	
18	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	115+00	72'R	
19	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	117+00	76'R	
20	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	119+00	76'R	
21	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	121+00	76'R	
22	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	129+87	76'R	
23	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	131+87	76'R	
24	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	133+87	76'R	
25	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	135+87	76'R	
26	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	401+25	27'R	
27	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	402+75	27'R	
28	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	404+25	27'R	
29	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	141+00	64'R	
30	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	557+38	44'R	
31	30' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	426+10	62'R	
32	30' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	428+10	62'R	
33	30' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	903+97	80'R	
34	30' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	904+25	52'L	
35	30' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	905+25	52'L	
36	30' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	903+76	88'L	
37	30' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	431+00	27'L	
38	30' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	433+00	27'L	
39	30' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	902+50	60'L	
40	30' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	902+56	65'R	
41	30' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	900+90	69'R	
42	30' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	586+50	62'R	
43	30' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	584+50	62'R	
44	30' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	900+91	51'L	
45	30' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	589+50	69'R	
46	30' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	587+00	33'L	
47	30' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	589+00	33'L	
48	30' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	590+75	33'L	

POLE SCHEDULE

POLE NO.	TYPE OF POLE	MAST ARM LENGTH	LUMINAIRE WATTAGE	TYPE OF BASE	STATION LOCATION		NOTES
					STATION	OFFSET	
49	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	442+75	59'L	
50	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	1200+00	19'L	
51	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	1202+00	27'L	
52	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	1204+00	31'L	
53	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	1206+00	31'L	
54	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	1208+00	31'L	
55	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	1210+00	31'L	
56	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	1212+00	31'L	
57	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	1213+50	31'L	
58	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	1214+50	32'L	
59	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	1215+50	37'L	
60	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	321+50	27'L	
61	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	323+00	27'L	
62	30' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	1400+85	42'L	
63	30' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	1402+50	41'L	
64	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	1404+00	35'L	
65	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	1405+25	32'L	
66	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	1406+50	31'L	
67	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	1408+00	31'L	
68	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	1409+50	31'L	
69	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	1411+50	31'L	
70	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	1413+50	26'L	
71	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	333+62	27'L	
73	30' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	628+90	40'L	
74	30' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	1309+10	27'R	
77	30' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	627+50	55'R	
78	30' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	1401+50	45'R	
79	30' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	625+50	65'R	
80	30' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	624+00	65'R	
81	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	460+00	27'L	
82	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	212+20	30'R	
83	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	461+15	34'R	
84	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	462+50	27'R	
85	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	464+00	27'R	
86	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	217+38	39'R	
87	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	219+00	39'R	
88	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	220+50	39'R	
89	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	222+00	39'R	
90	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	224+00	39'R	
91	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	226+00	39'R	
92	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	228+00	39'R	
93	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	230+00	33'R	
94	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	232+00	27'R	
95	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	234+00	27'R	
96	40' ROUND ALUMINUM	15'	250 HPS	BREAK AWAY	122+50	76'R	

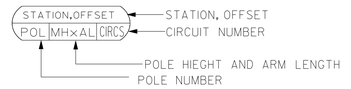
CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL SCHEDULE WORK TO MAINTAIN AS MANY LUMINAIRES IN OPERATION AS POSSIBLE.
2. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO STARTING WORK.
3. THE CONTRACTOR SHALL ESTABLISH ALL TEMPORARY BYPASSES OF CIRCUITS PRIOR TO EXCAVATION.
4. PROVIDE 4' OF SLACK CABLE, NEATLY COILED AND BOUND IN EACH JUNCTION BOX.
5. PROVIDE 10' OF SLACK CABLE, NEATLY COILED AND BOUND IN EACH LIGHTING JUNCTION BOX.
6. THE CONTRACTOR SHALL BOND ALL METALLIC BOXES, CONDUITS, POLES, MH COVERS & GROUND RODS TO FEEDER GROUND CABLES.
7. SETBACK DISTANCES AND STATION LOCATIONS ARE APPROXIMATE AND MAY BE VARIED 2' FURTHER FROM THE ROAD AT THE CONTRACTOR'S DISCRETION TO FACILITATE CONSTRUCTION.
8. PROVIDE A 250V, 30A, 8 POLE LIGHTING CONTACTOR TO CONTROLTHE LIGHTS. ONE CONTACTOR SHALL BE INSTALLED IN EACH OF THE CABINETS WITH THE PANEL AND CONTROLLED BY A PHOTOCELL MOUNTED ON TOP OF THE CABINET. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE CONTACTOR AND PHOTOCELL AND MAKE ALL FINAL CONNECTIONS. ALL COSTS INCIDENTAL TO THE LIGHTING ITEMS.

LEGEND

SYMBOL	DESCRIPTION
●——	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GRND. MOUNT LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX
∅	UTILITY POLE
——	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
⏚	GROUND ROD

POLE IDENTIFICATION



DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS	

SR1, LITTLE HEAVEN
GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

LIGHTING SCHEDULE

SHEET NO.
468
TOTAL SHTS.
641

3/26/2015
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SCHEDULE OF PANEL A

277/480V. 3Ø. 4W. 200A. MAIN LUGS — LAMPS AT 480V

CKT. NO.	EQUIPMENT SERVED	CONNECTED LOAD KW	PHASE AND VOLTS	BRANCH CIRCUIT BREAKERS NO. OF POLES	FRAME SIZE	TRIP SIZE	AMPS -
1	POLES 1, 2 SEE NOTE 8	.6	1/240	2	100	20	2.4
2	POLES 3,4,5,6,7,8 SEE NOTE 8	1.8	1/240	2	100	20	7.2
3	POLES 9,10,11,12,13,14 SEE NOTE 8	1.8	1/240	2	100	20	7.2
4	SPARE	——	1/240	2	100	20	——
5	SPARE	——	1/240	2	100	20	——
6	SPACE		1/240				
7	SPACE						
8	SPACE						
9	SPACE						
10	SPACE						
11	SPACE						
12	SPACE						
13	SPACE						
14	SPACE						
15	SPACE						
16	SPACE						

SCHEDULE OF PANEL B

277/480V. 3Ø. 4W. 200A. MAIN LUGS — LAMPS AT 480V

CKT. NO.	EQUIPMENT SERVED	CONNECTED LOAD KW	PHASE AND VOLTS	BRANCH CIRCUIT BREAKERS NO. OF POLES	FRAME SIZE	TRIP SIZE	AMPS -
1	POLES 16,17,18,19,20,21,96 SEE NOTE 8	1.8	1/240	2	100	20	7.2
2	POLES 22,23,24,25,26,27,28,29 SEE NOTE 8	3.3	1/240	2	100	20	8.6
3	SPARE	——	1/240	2	100	20	——
4	SPARE	——	1/240	2	100	20	——
5	SPACE						
6	SPACE						
7	SPACE						
8	SPACE						
9	SPACE						
10	SPACE						
11	SPACE						
12	SPACE						
13	SPACE						
14	SPACE						
15	SPACE						
16	SPACE						

SCHEDULE OF PANEL C

120/240V. 3Ø. 4W. 100A. MAIN LUGS — LAMPS AT 240V

CKT. NO.	EQUIPMENT SERVED	CONNECTED LOAD KW	PHASE AND VOLTS	BRANCH CIRCUIT BREAKERS NO. OF POLES	FRAME SIZE	TRIP SIZE	AMPS -
1	POLES 37,38,39,40 SEE NOTE 8	1.2	1/240	2	100	20	4.8
2	POLES 31,32,33,34,35,36 SEE NOTE 8	3.3	1/240	2	100	20	7.2
3	POLES 41,42,43,44,45,46,47,48 SEE NOTE 8	1.8	1/240	2	100	20	7.2
4	SPARE	——	1/240	2	100	20	——
5	SPARE	——	1/240	2	100	20	——
6	SPACE						
7	SPACE						
8	SPACE						
9	SPACE						
10	SPACE						
11	SPACE						
12	SPACE						
13	SPACE						
14	SPACE						
15	SPACE						
16	SPACE						

SCHEDULE OF PANEL D

277/480V. 3Ø. 4W. 200A. MAIN LUGS — LAMPS AT 480V

CKT. NO.	EQUIPMENT SERVED	CONNECTED LOAD KW	PHASE AND VOLTS	BRANCH CIRCUIT BREAKERS NO. OF POLES	FRAME SIZE	TRIP SIZE	AMPS -
1	POLES 92,93,94,95 SEE NOTE 8	1.2	1/240	2	100	20	4.8
2	POLES 81,82,83,84,85 SEE NOTE 8	3.0	1/240	2	100	20	6.0
3	POLES 86,87,88,89,90,91 SEE NOTE 8	3.0	1/240	2	100	20	6.0
4	SPARE	——	1/240	2	100	20	——
5	SPARE	——	1/240	2	100	20	——
6	SPACE						
7	SPACE						
8	SPACE						
9	SPACE						
10	SPACE						
11	SPACE						
12	SPACE						
13	SPACE						
14	SPACE						
15	SPACE						
16	SPACE						

SCHEDULE OF PANEL E

277/480V. 3Ø. 4W. 200A. MAIN LUGS — LAMPS AT 480V

CKT. NO.	EQUIPMENT SERVED	CONNECTED LOAD KW	PHASE AND VOLTS	BRANCH CIRCUIT BREAKERS NO. OF POLES	FRAME SIZE	TRIP SIZE	AMPS -
1	POLES 50,51,52,53,54,55 SEE NOTE 8	1.8	1/240	2	100	20	7.2
2	POLES 67,68,69,70,71 SEE NOTE 8	1.5	1/240	2	100	20	6.0
3	POLES 56,57,58,59,60,61 SEE NOTE 8	1.8	1/240	2	100	20	7.2
4	POLES 62,63,64,65,66 SEE NOTE 8	1.5	1/240	2	100	20	6.0
5	POLES 73,74,77,78,79,80 SEE NOTE 8	1.8	1/240	2	100	20	7.2
6	SPARE	——	1/240	2	100	20	——
7	SPACE						
8	SPACE						
9	SPACE						
10	SPACE						
11	SPACE						
12	SPACE						
13	SPACE						
14	SPACE						
15	SPACE						
16	SPACE						

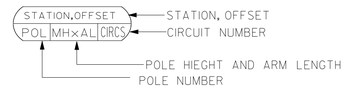
CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL SCHEDULE WORK TO MAINTAIN AS MANY LUMINAIRES IN OPERATION AS POSSIBLE.
2. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO STARTING WORK.
3. THE CONTRACTOR SHALL ESTABLISH ALL TEMPORARY BYPASSES OF CIRCUITS PRIOR TO EXCAVATION.
4. PROVIDE 4' OF SLACK CABLE, NEATLY COILED AND BOUND IN EACH JUNCTION BOX.
5. PROVIDE 10' OF SLACK CABLE, NEATLY COILED AND BOUND IN EACH LIGHTING JUNCTION BOX.
6. THE CONTRACTOR SHALL BOND ALL METALLIC BOXES, CONDUITS, POLES, MH COVERS & GROUND RODS TO FEEDER GROUND CABLES.
7. SETBACK DISTANCES AND STATION LOCATIONS ARE APPROXIMATE AND MAY BE VARIED 2' FURTHER FROM THE ROAD AT THE CONTRACTOR'S DISCRETION TO FACILITATE CONSTRUCTION.
8. PROVIDE A 250V, 30A, 8 POLE LIGHTING CONTACTOR TO CONTROL THE LIGHTS. ONE CONTACTOR SHALL BE INSTALLED IN EACH OF THE CABINETS WITH THE PANEL AND CONTROLLED BY A PHOTOCELL MOUNTED ON TOP OF THE CABINET. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE CONTACTOR AND PHOTOCELL AND MAKE ALL FINAL CONNECTIONS. ALL COSTS INCIDENTAL TO THE LIGHTING ITEMS.

L E G E N D

SYMBOL	DESCRIPTION
●—●	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GRND. MOUNT LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX
∅	UTILITY POLE
——	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
✦	GROUND ROD

POLE IDENTIFICATION



DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

LIGHTING SCHEDULE

SHEET NO.
469
TOTAL SHTS.
641

1/5/2005
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SCHEDULE OF PANEL F

120/240V, 3Ø, 4W, 100A, MAIN LUGS — LAMPS AT 240V

CKT. NO.	EQUIPMENT SERVED	CONNECTED LOAD KW	PHASE AND VOLTS	BRANCH CIRCUIT BREAKERS NO. OF POLES	FRAME SIZE	TRIP SIZE	AMPS -
1	POLES 15 SEE NOTE 8	1.8	1 / 240	2	100	20	7.2
2	SPARE	——	1 / 240	2	100	20	——
3	SPARE	——	1 / 240	2	100	20	——
4	SPARE	——	1 / 240	2	100	20	——
5	SPARE	——	1 / 240	2	100	20	——
6	SPACE						
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11	SPACE						
12	SPACE						
13	SPACE						
14	SPACE						
15	SPACE						
16	SPACE						

SCHEDULE OF PANEL G

120/240V, 3Ø, 4W, 100A, MAIN LUGS — LAMPS AT 240V

CKT. NO.	EQUIPMENT SERVED	CONNECTED LOAD KW	PHASE AND VOLTS	BRANCH CIRCUIT BREAKERS NO. OF POLES	FRAME SIZE	TRIP SIZE	AMPS -
1	POLES 30 SEE NOTE 8	1.8	1 / 240	2	100	20	7.2
2	SPARE	——	1 / 240	2	100	20	——
3	SPARE	——	1 / 240	2	100	20	——
4	SPARE	——	1 / 240	2	100	20	——
5	SPACE						
6	SPACE						
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14	SPACE						
15	SPACE						
16	SPACE						

SCHEDULE OF PANEL H

120/240V, 3Ø, 4W, 100A, MAIN LUGS — LAMPS AT 240V

CKT. NO.	EQUIPMENT SERVED	CONNECTED LOAD KW	PHASE AND VOLTS	BRANCH CIRCUIT BREAKERS NO. OF POLES	FRAME SIZE	TRIP SIZE	AMPS -
1	POLES 49 SEE NOTE 8	1.8	1 / 240	2	100	20	7.2
2	SPARE	——	1 / 240	2	100	20	——
3	SPARE	——	1 / 240	2	100	20	——
4	SPARE	——	1 / 240	2	100	20	——
5	SPARE	——	1 / 240	2	100	20	——
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13	SPACE						
14	SPACE						
15	SPACE						
16	SPACE						

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL SCHEDULE WORK TO MAINTAIN AS MANY LUMINAIRES IN OPERATION AS POSSIBLE.
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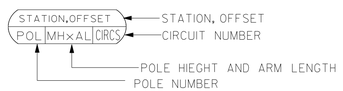
3. THE CONTRACTOR SHALL ESTABLISH ALL TEMPORARY BYPASSES OF CIRCUITS PRIOR TO EXCAVATION.
4. PROVIDE 4' OF SLACK CABLE, NEATLY COILED AND BOUND IN EACH JUNCTION BOX.
5. PROVIDE 10' OF SLACK CABLE, NEATLY COILED AND BOUND IN EACH LIGHTING JUNCTION BOX.
6. THE CONTRACTOR SHALL BOND ALL METALLIC BOXES, CONDUITS, POLES, MH COVERS & GROUND RODS TO FEEDER GROUND CABLES.
7. SETBACK DISTANCES AND STATION LOCATIONS ARE APPROXIMATE AND MAY BE VARIED 2' FURTHER FROM THE ROAD AT THE CONTRACTOR'S DISCRETION TO FACILITATE CONSTRUCTION.
8. PROVIDE A 250V, 30A, 8 POLE LIGHTING CONTACTOR TO CONTROL THE LIGHTS. ONE CONTACTOR SHALL BE INSTALLED IN EACH OF THE CABINETS WITH THE PANEL AND CONTROLLED BY A PHOTOCELL MOUNTED ON TOP OF THE CABINET. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE CONTACTOR AND PHOTOCELL AND MAKE ALL FINAL CONNECTIONS. ALL COSTS INCIDENTAL TO THE LIGHTING ITEMS.

LEGEND

SYMBOL	DESCRIPTION
●—●	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GRND. MOUNT LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX
∅	UTILITY POLE
——	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
⏚	GROUND ROD

POLE IDENTIFICATION



DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS	

SR1, LITTLE HEAVEN
GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

LIGHTING SCHEDULE

SHEET NO.
470
TOTAL SHTS.
641

11/25/2014
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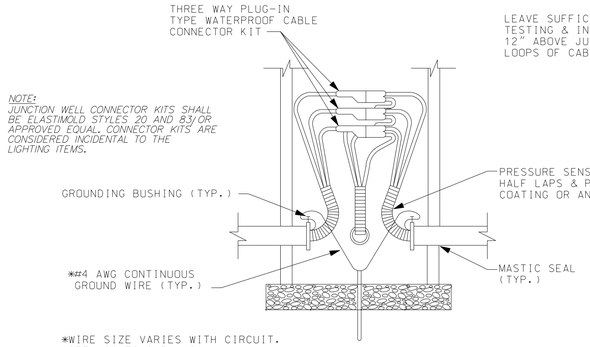
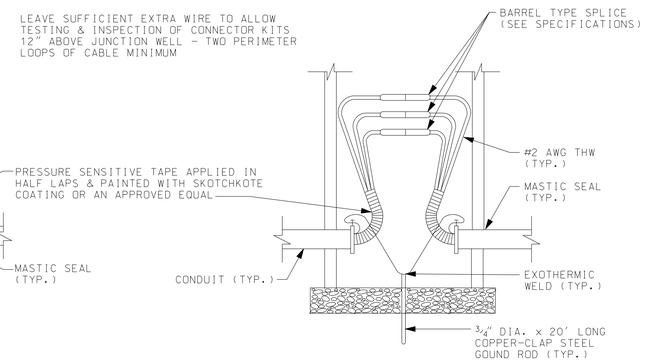
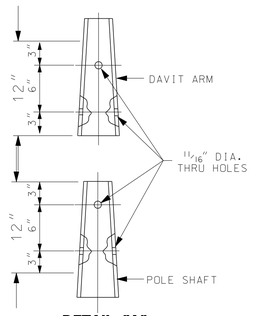


THREE WAY SPLICE
N.T.S.

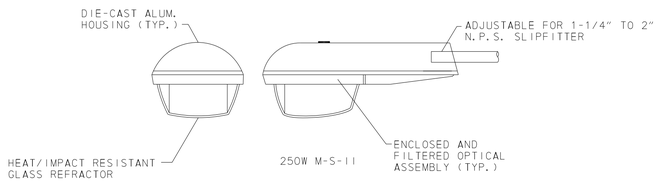


STRAIGHT THROUGH SPLICE
N.T.S.

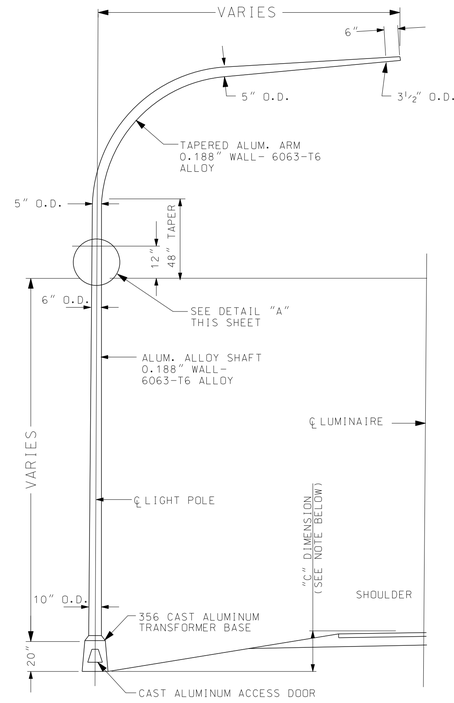
TYPICAL JUNCTION WELL SPLICES
N.T.S.



DETAIL "A"
N.T.S.



250 WATT HIGH PRESSURE SODIUM LUMINAIRES (CUTOFF WITH SAG LENS)
N. T. S.



LIGHTING POLE & DAVIT ARM
N.T.S.

NOTE:
1. CONTRACTOR TO VERIFY THE ℄ DIMENSIONS AT EACH POLE LOCATION AND PROVIDE APPROPRIATE POLE LENGTH FOR A NOMINAL MOUNTING HEIGHT OF LUMINAIRE (40' or 30') ABOVE ROADWAY.

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS		**SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION**	CONTRACT T200412202	BRIDGE NO. -	**LIGHTING DETAILS**	SHEET NO. 471
				COUNTY KENT	DESIGNED BY: SFP		TOTAL SHTS. 641
					CHECKED BY: WFC		

1/6/2015
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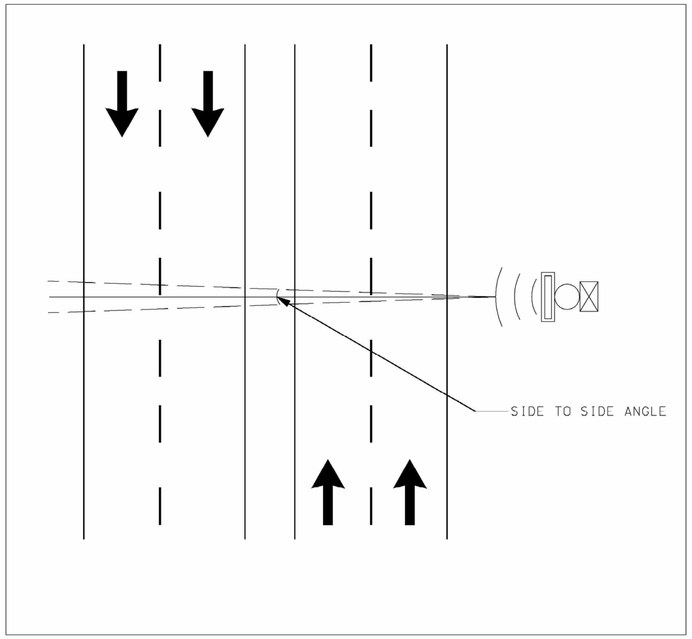
FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR RESPONSIBLE FOR CONCRETE BASE AND CONDUIT. REMAINING TO BE INSTALLED BY OTHERS.

Detector Mounting Height Guidelines

Offset From First Detection Lane (feet)	Recommended Mounting Height (feet)	Minimum Mounting Height (feet)	Maximum Mounting Height (feet)
6	12	9	19
7	12	9	19
8	12	9	20
9	12	9	21
10	12	9	22
11	12	9	23
12	13	10	24
13	13	11	25
14	14	11	26
15	15	12	26
16	15	12	27
17	16	13	28
18	17	14	29
19	17	14	30
20	18	15	30
21	19	15	31
22	20	16	31
23	22	16	32
24	24	16	33
25	26	17	33
26	26	17	34
27	27	18	35
28	27	18	35
29	27	18	36
30	29	19	37
31	29	19	37
32	29	19	38
33	30	19	39
34	30	19	39
35	30	20	40
36	30	20	41
37	31	20	41
38	31	21	42
39	33	21	43
40	33	22	43
41	34	22	44
42	34	22	44
43	35	22	45
44	35	23	46
45	36	23	46
46	36	23	47
47	36	24	48
48	38	24	48
49	38	24	49
50-230	39	25	Must be ≤ Offset

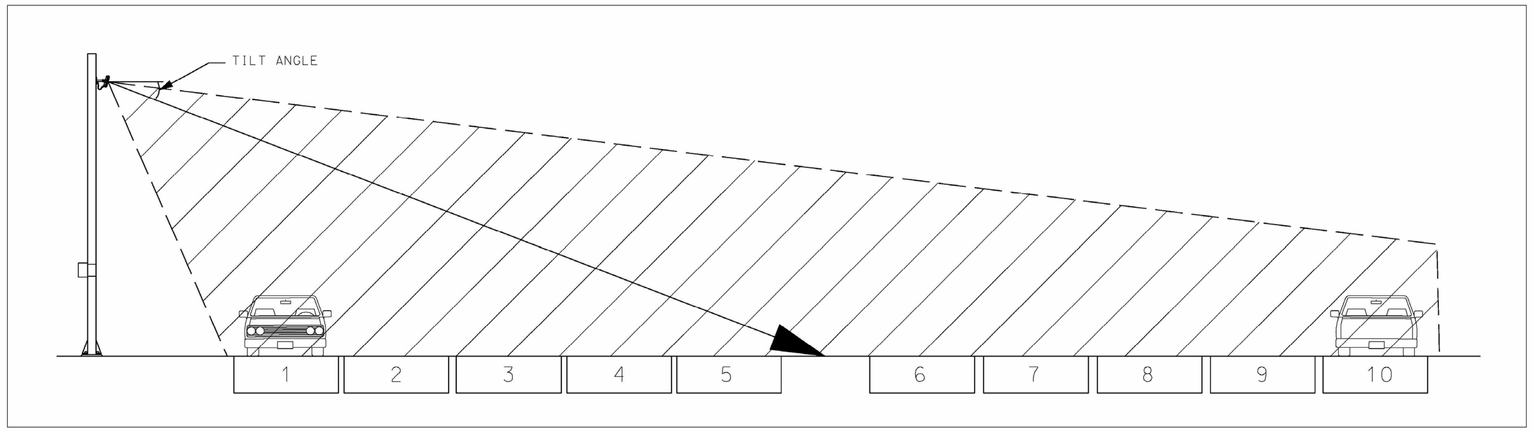
RECOMMENDED OFFSETS



PLAN VIEW

MICROWAVE DETECTOR CONSTRUCTION NOTES:

1. MICROWAVE DETECTOR SHALL BE AIMED AT THE CENTER OF THE DETECTION ZONE (CENTER OF LANES) WITH THE CABLE CONNECTOR POINTED TOWARD THE GROUND. THE DETECTOR SHALL BE ALIGNED SUCH THAT THE SIDE TO SIDE ANGLE IS WITHIN 2 DEGREES OF PERPENDICULAR AND THE VERTICAL TILT ANGLE IS 10-20 DEGREES (TYPICAL).
2. MOUNTING HEIGHT OF THE UNIT AND OFFSET FROM THE TRAVELLED LANE MUST BE DETERMINED ON A SITE-BY-SITE BASIS, IN ACCORDANCE WITH THE MOUNTING HEIGHT GUIDELINES AND EXISTING CLEAR ZONE REQUIREMENTS.
3. MICROWAVE DETECTOR LOCATIONS SHOULD BE CHOSEN TO AVOID LOCATIONS WHERE SOUND BARRIERS, TRAFFIC BARRIER, BUILDINGS, BRIDGE OVERPASSES, OR OTHER SURFACES CAN REFLECT THE MICROWAVE SIGNALS.
4. GENERAL DETECTOR INSTALLATION PROCEDURE:
   A. INSTALL UNIT AT THE RECOMMENDED MOUNTING HEIGHT AS DEPICTED ON THE PLANS USING TWO STAINLESS STEEL BANDS (PROVIDED WITH THE UNIT).
   B. ALIGN UNIT SUCH THAT IT IS AIMED AT THE CENTER OF THE DETECTION ZONE AND ADJUST THE SIDE TO SIDE ANGLE. LEAVE SUFFICIENT SLACK TO ALLOW DETECTOR MOUNTING HEIGHT TO BE ADJUSTED DURING THE FINAL UNIT CONFIGURATION PROCESS.
   C. APPLY SILICONE DIELECTRIC COMPOUND AND INSTALL DETECTOR CABLE IN ACCORDANCE WITH MANUFACTURER GUIDELINES.
   D. CONNECT POWER, COMMUNICATIONS AND DETECTOR CABLE INSIDE DETECTOR CABINET.
   E. DELDOT STAFF WILL CONFIGURE UNIT USING VENDOR SOFTWARE AND A LAPTOP, FOLLOWING MANUFACTURER GUIDELINES.
   F. MAKE FINAL ADJUSTMENTS TO MOUNTING HEIGHT, TILT ANGLE AND SIDE TO SIDE ANGLE DURING THE CONFIGURATION PROCESS AND PRIOR TO SECURELY FASTENING THE STAINLESS STEEL BANDS.
5. MAXIMUM ALLOWABLE CABLE LENGTH FOR POWER CONDUCTORS USING 24 Vdc OPERATIONS IS 600 FT FOR RS-485 OR 40' FOR RS-232.



PROFILE VIEW

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

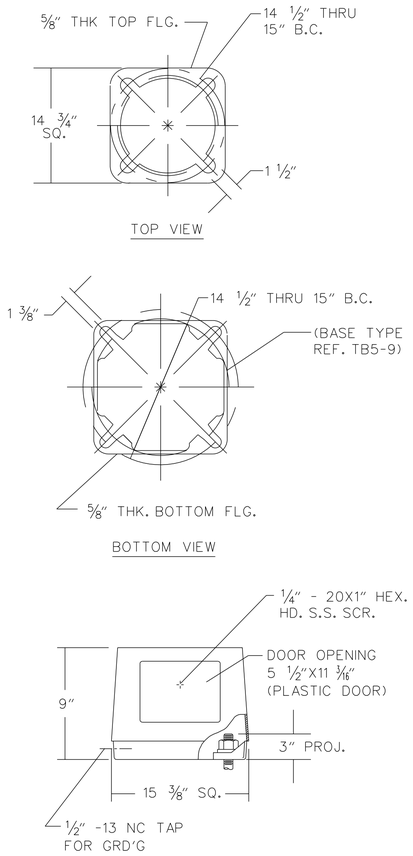
SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

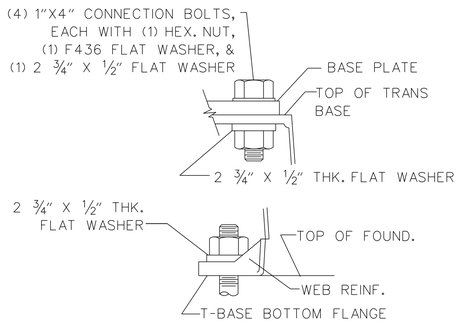
CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

MICROWAVE RADAR DETAILS

SHEET NO.
472
TOTAL SHTS.
641

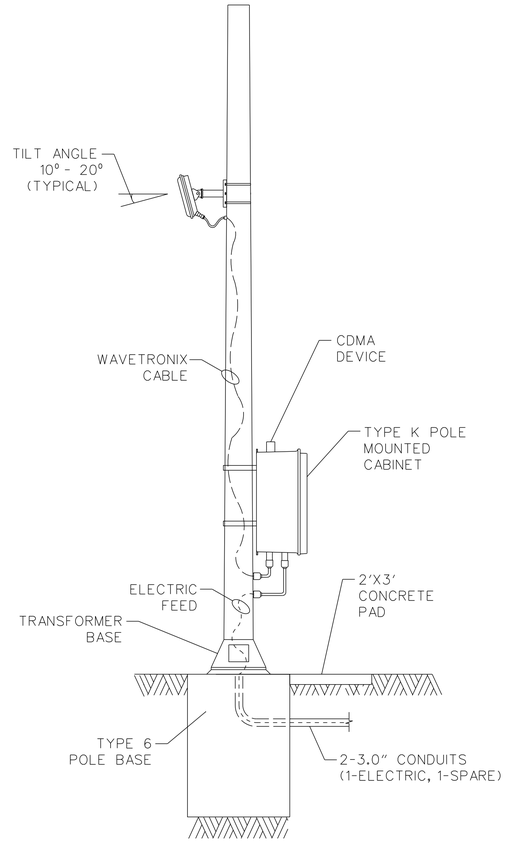
FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR RESPONSIBLE FOR CONCRETE BASE AND CONDUIT. REMAINING TO BE INSTALLED BY OTHERS.





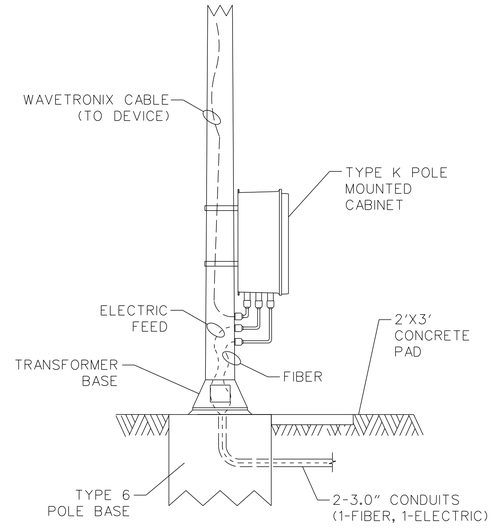
INSTALLATION DETAIL

ALUMINUM TRANSFORMER BASE DETAIL



ELECTRIC INSTALLATION

CDMA COMMUNICATION



ELECTRIC INSTALLATION

FIBER COMMUNICATION

MICROWAVE DETECTOR TYPICAL

NOTES:
1. SEE PLAN SHEETS FOR DETECTOR MOUNTING HEIGHTS.
2. CONDUIT BODIES USED FOR POLE TO CABINET CONNECTIONS SHALL BE LIQUID TIGHT.
3. DETECTOR POLE SHALL HAVE A HEIGHT OF 40'.
4. CONTRACTOR SHALL INSTALL A 2' X 3' CONCRETE PAD IN FRONT OF CABINET DOOR TO FACILITATE CABINET ACCESS. CONCRETE PAD SHALL BE PAID FOR UNDER ITEM 705001.
5. CABINET SHALL BE PROVIDED WITH SURGE PROTECTOR, CDMA/FIBER COMMUNICATION (AS REQUIRED) AND SOLAR/ELECTRIC EQUIPMENT (AS REQUIRED).
6. BATTERY BACKUP FOR SOLAR INSTALLATIONS SHALL CONSIST OF 4-12V BATTERIES CONNECTED IN PARALLEL.
7. FOR NON-ELECTRIC 2 DETECTOR SYSTEMS, DEVICES SHALL BE POWERED BY 2 SOLAR PANELS.

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION	CONTRACT T200412202	BRIDGE NO. -	MICROWAVE RADAR DETAILS	SHEET NO. 473
				COUNTY KENT	DESIGNED BY: SFP		TOTAL SHTS. 641
					CHECKED BY: WFC		

11/25/2014
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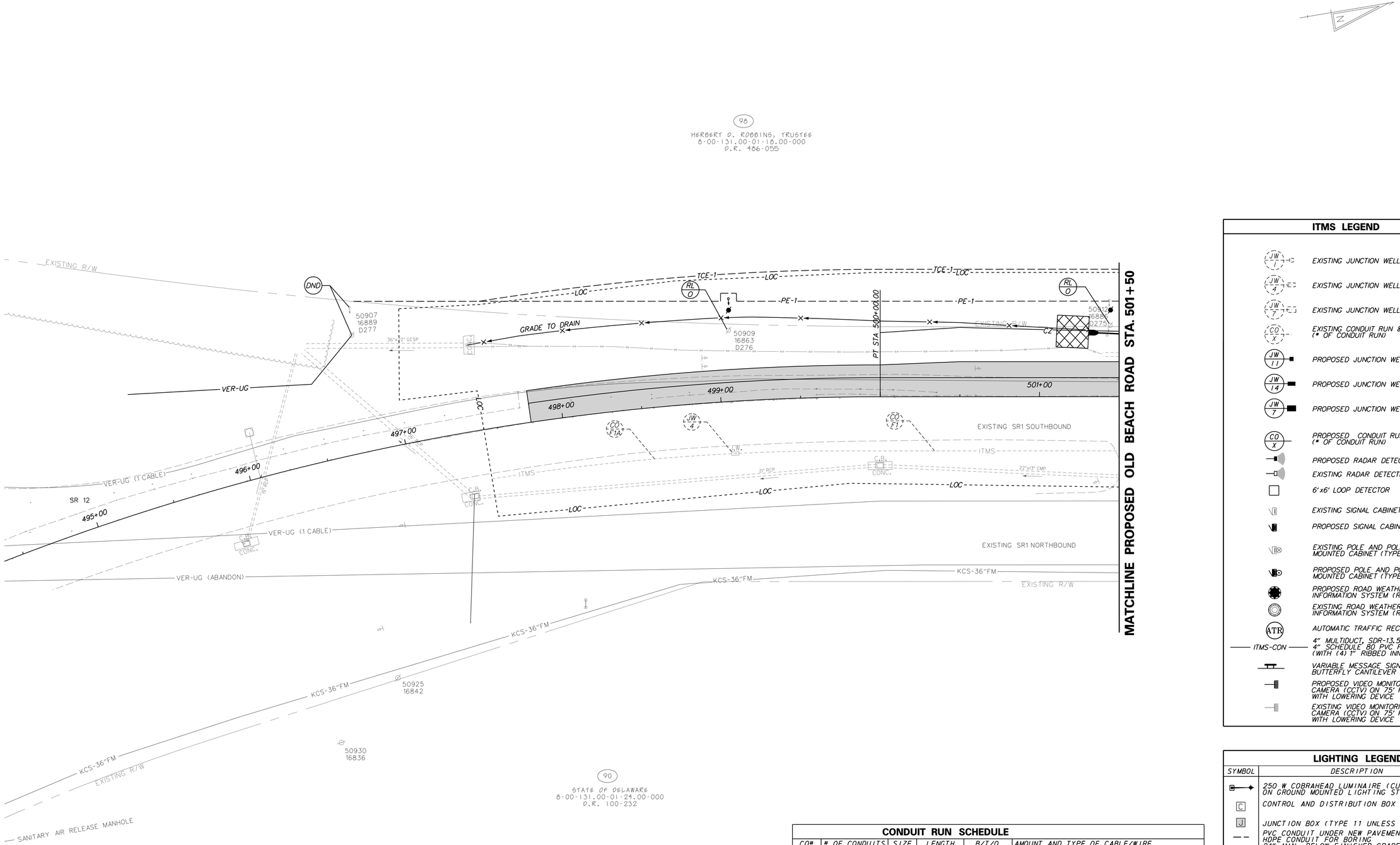

ITMS LEGEND

- JW 1 — EXISTING JUNCTION WELL TYPE 1
- JW 4 — EXISTING JUNCTION WELL TYPE 4
- JW 7 — EXISTING JUNCTION WELL TYPE 7
- CO X — EXISTING CONDUIT RUN & IDENTIFIER (# OF CONDUIT RUN)
- JW 11 — PROPOSED JUNCTION WELL TYPE 11
- JW 14 — PROPOSED JUNCTION WELL TYPE 14
- JW 7 — PROPOSED JUNCTION WELL TYPE 7
- CO X — PROPOSED CONDUIT RUN & IDENTIFIER (# OF CONDUIT RUN)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- ATR — AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION, OFFSET — STATION, OFFSET
POL MH×AL CIRCS — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

CONDUIT RUN SCHEDULE

CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE
X F1	1	4"	240'	-	48 CNT SM, 144 CNT SM
X F1A	1	4"	-	-	48 CNT SM, 144 CNT SM

LEGEND
X - DENOTE EXISTING
B - BORE T - TRENCH O - OPEN CUT SM - SINGLE MODE

NOTE: ALL 4" CONDUIT TO BE MULTI-DUCT WITH FOUR ONE INCH INNER DUCTS.
THE 1" INNER DUCTS SHALL BE SUPPLIED BY THE FIBER CONTRACTOR.

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

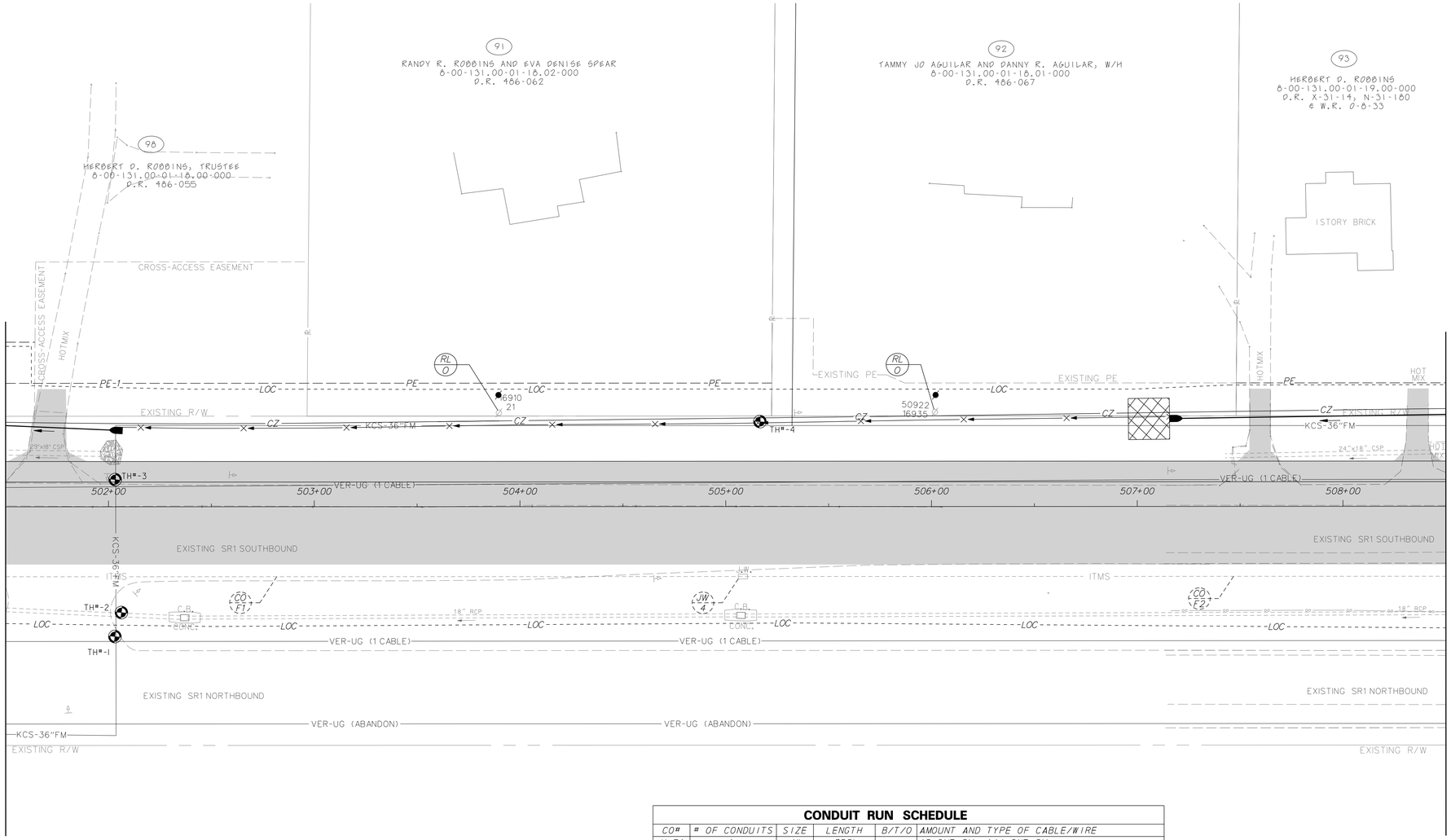
SCALE 0 30 60 90 FEET

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO. 474
TOTAL SHTS. 641



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STATE OF DELAWARE
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D.R. 100-232

CONDUIT RUN SCHEDULE

CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE
X F1	1	4"	358'	-	48 CNT SM, 144 CNT SM
X F2	1	4"	342'	-	48 CNT SM, 144 CNT SM

LEGEND
X - DENOTES EXISTING
B - BORE T - TRENCH O - OPEN CUT SM - SINGLE MODE

NOTE: ALL 4" CONDUIT TO BE MULTI-DUCT WITH FOUR ONE INCH INNER DUCTS.
THE INNER DUCTS SHALL BE SUPPLIED BY THE FIBER CONTRACTOR.

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	UTILITY EL.	COVER	O.D. & MATERIAL
1	VERIZON	502+03.08	63.08'	10.65'	3.09'	2.5" D.B.
1	KENT CO.	502+03.08	63.08'	10.43'	3.31'	60" CASING
2	KENT CO.	502+06.25	51.42'	10.43'	2.74'	60" CASING
2	DELDOT	502+06.25	51.42'	5.43'	7.74'	22"X13" CMP
3	VERIZON	502+03.24	-13.21'	11.61'	2.40'	2.5" D.B.
3	KENT CO.	502+03.24	-13.21'	11.43'	2.58'	36" CONCRETE
4	KENT CO.	505+16.62	-41.29	14.17'	3.02'	36" CONCRETE

ITMS LEGEND

- JW 1 — EXISTING JUNCTION WELL TYPE 1
- JW 4 — EXISTING JUNCTION WELL TYPE 4
- JW 7 — EXISTING JUNCTION WELL TYPE 7
- CO X — EXISTING CONDUIT RUN & IDENTIFIER (# OF CONDUIT RUN)
- JW 11 — PROPOSED JUNCTION WELL TYPE 11
- JW 14 — PROPOSED JUNCTION WELL TYPE 14
- JW 7 — PROPOSED JUNCTION WELL TYPE 7
- CO X — PROPOSED CONDUIT RUN & IDENTIFIER (# OF CONDUIT RUN)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- ATR — AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
— —	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET — STATION, OFFSET
POL MH×AL ORCS — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE
0 30 60 90
FEET

SR1, LITTLE HEAVEN
GRADE SEPARATED INTERSECTION

CONTRACT	T200412202
COUNTY	KENT

BRIDGE NO.	-
DESIGNED BY:	SFP
CHECKED BY:	WFC

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO.	475
TOTAL SHTS.	641

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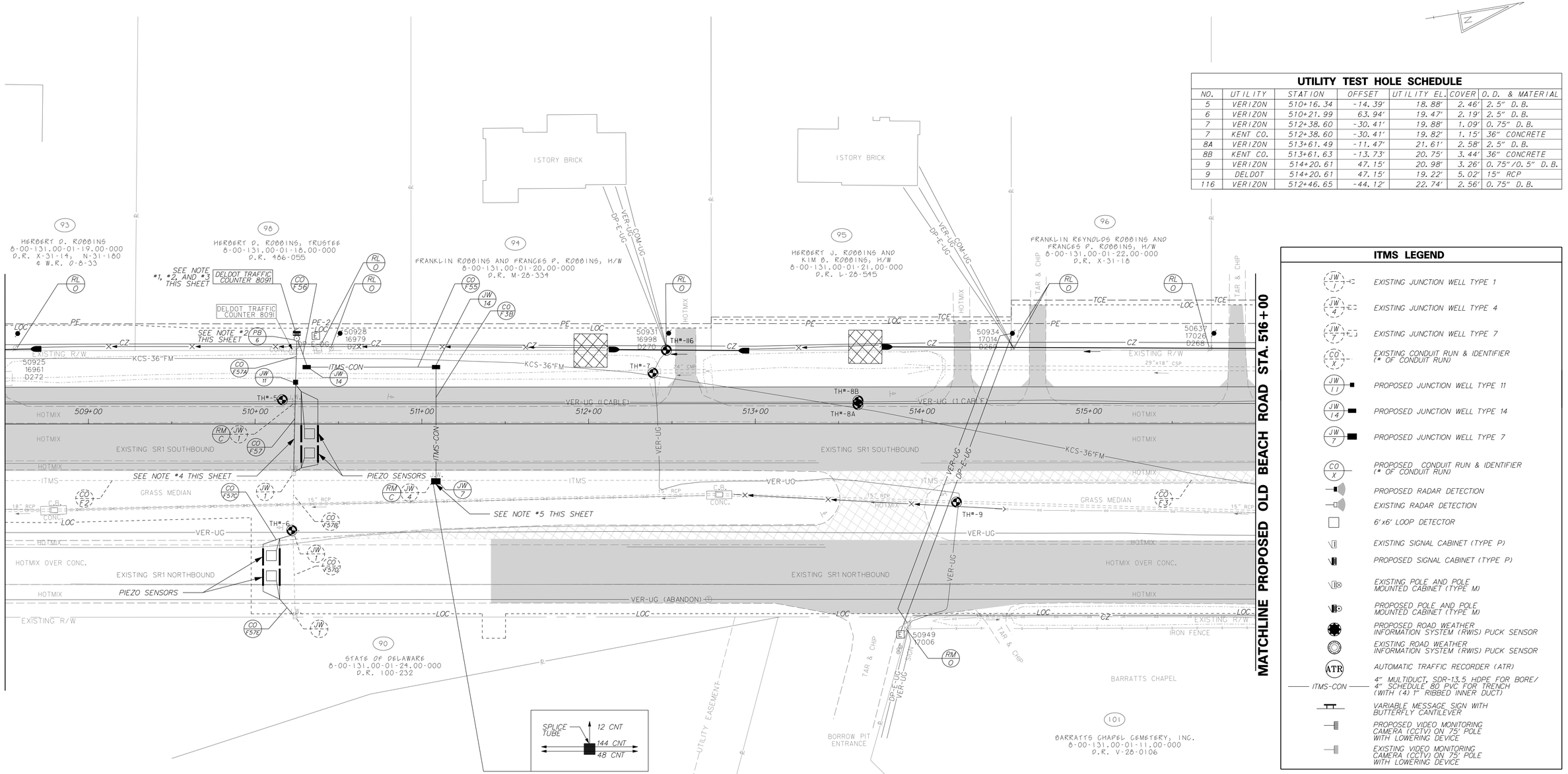

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	UTILITY EL.	COVER	O.D. & MATERIAL
5	VERIZON	510+16.34	-14.39'	18.88'	2.46'	2.5" D.B.
6	VERIZON	510+21.99	63.94'	19.47'	2.19'	2.5" D.B.
7	VERIZON	512+38.60	-30.41'	19.88'	1.09'	0.75" D.B.
7	KENT CO.	512+38.60	-30.41'	19.82'	1.15'	36" CONCRETE
8A	VERIZON	513+61.49	-11.47'	21.61'	2.58'	2.5" D.B.
8B	KENT CO.	513+61.63	-13.73'	20.75'	3.44'	36" CONCRETE
9	VERIZON	514+20.61	47.15'	20.98'	3.26'	0.75"/0.5" D.B.
9	DELDOT	514+20.61	47.15'	19.22'	5.02'	15" RCP
116	VERIZON	512+46.65	-44.12'	22.74'	2.56'	0.75" D.B.

ITMS LEGEND

- JW 1 — EXISTING JUNCTION WELL TYPE 1
- JW 4 — EXISTING JUNCTION WELL TYPE 4
- JW 7 — EXISTING JUNCTION WELL TYPE 7
- CO X — EXISTING CONDUIT RUN & IDENTIFIER (* OF CONDUIT RUN)
- JW 11 — PROPOSED JUNCTION WELL TYPE 11
- JW 14 — PROPOSED JUNCTION WELL TYPE 14
- JW 7 — PROPOSED JUNCTION WELL TYPE 7
- CO X — PROPOSED CONDUIT RUN & IDENTIFIER (* OF CONDUIT RUN)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- ATR — AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

CONDUIT RUN SCHEDULE

CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE
X F2	1	4"	259'	-	48 CNT SINGLE MODE, 144 CNT SINGLE MODE
X F3	1	4"	492'	-	48 CNT SM, 144 CNT SM
F3B	1	4"	66'	B	12 CNT SM
F55	1	4"	73'	T	12 CNT SM
F56	1	2.5"	15'	T	12 CNT SM
F57	1	4"	55'	B	SEE NOTE #1 ON THIS SHEET
F57A	1	4"	25'	T	SEE NOTE #1 ON THIS SHEET
X F57B	1	4"	40'	-	SEE NOTE #1 ON THIS SHEET
F57C	1	2.5"	10'	T	SEE NOTE #1 ON THIS SHEET
X F57D	1	4"	50'	-	SEE NOTE #1 ON THIS SHEET
F57E	1	2.5"	15'	T	SEE NOTE #1 ON THIS SHEET

LEGEND
X - DENOTES EXISTING
B - BORE T - TRENCH O - OPEN CUT SM - SINGLE MODE

NOTE: ALL 4" CONDUIT TO BE MULTI-DUCT WITH FOUR ONE INCH INNER DUCTS. THE 1" INNER DUCTS SHALL BE SUPPLIED BY THE FIBER CONTRACTOR.

NOTES:

1. RELOCATION AND REPLACEMENT OF THE ENTIRE EXISTING WIM COUNT STATION AT STATION 510+23 INCLUDING CABINET, PIEZO-SENSORS, DETECTOR LOOPS AND LEAD CABLES SHALL BE PERFORMED BY DELDOT TRAFFIC CONTRACTOR IN COORDINATION WITH MR. MIKE SOMERS (302-659-4099) AND MR. TOM HRUPSA (302-222-5931).
2. THE TRAFFIC COUNTER CABINET SHALL BE MOUNTED ON A 12-FOOT PEDESTAL POLE WITH A TYPE 6 POLE BASE.
3. POWER FOR THE COUNTER STATION SHALL BE PROVIDED BY A SOLAR PANEL MOUNTED ON THE PEDESTAL POLE.
4. CONTRACTOR SHALL INSTALL NEW JUNCTION WELL ON THE WEST SIDE OF SR1 NORTHBOUND AND RUN NEW CONDUIT TO CONNECT TO EXISTING JUNCTION WELL ON THE EAST SIDE. ADJUST/REPAIR EXISTING JUNCTION WELL, IF NECESSARY.
5. CONTRACTOR SHALL REMOVE EXISTING JUNCTION WELL TYPE 4 AND REPLACE WITH PROPOSED JUNCTION WELL TYPE 7. CARE SHALL BE TAKEN NOT TO DAMAGE EXISTING CONDUITS AND CABLES.

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET — STATION, OFFSET
POL MH×AL ORCS — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO.
476
TOTAL SHTS.
641

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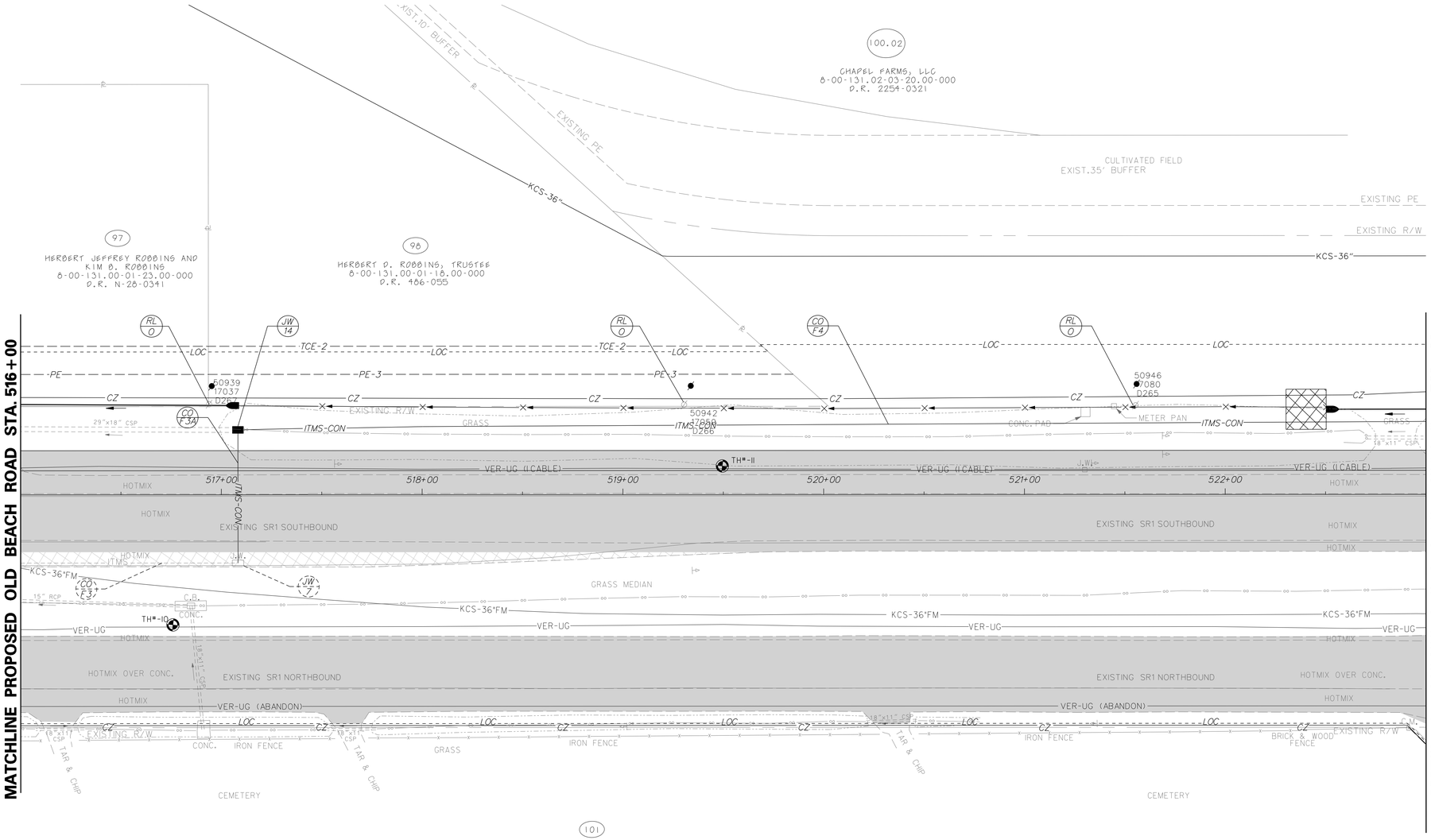

ITMS LEGEND

- JW 1 — EXISTING JUNCTION WELL TYPE 1
- JW 4 — EXISTING JUNCTION WELL TYPE 4
- JW 7 — EXISTING JUNCTION WELL TYPE 7
- CO X — EXISTING CONDUIT RUN & IDENTIFIER (# OF CONDUIT RUN)
- JW 11 — PROPOSED JUNCTION WELL TYPE 11
- JW 14 — PROPOSED JUNCTION WELL TYPE 14
- JW 7 — PROPOSED JUNCTION WELL TYPE 7
- CO X — PROPOSED CONDUIT RUN & IDENTIFIER (# OF CONDUIT RUN)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- ATR — AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
— —	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET — STATION, OFFSET
POL MH x AL ORS — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

CONDUIT RUN SCHEDULE

CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE
X F3	1	4"	108'	-	48 CNT SM, 144 CNT SM
F3A	1	4"	66'	B	48 CNT SM, 144 CNT SM
F4	1	4"	592'	T	48 CNT SM, 144 CNT SM

LEGEND
X - DENOTES EXISTING
B - BORE T - TRENCH O - OPEN CUT SM - SINGLE MODE

NOTE: ALL 4" CONDUIT TO BE MULTI-DUCT WITH FOUR ONE INCH INNER DUCTS.
THE 1" INNER DUCTS SHALL BE SUPPLIED BY THE FIBER CONTRACTOR.

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	UTILITY EL.	COVER	O.D. & MATERIAL
10	VERIZON	516+75.86	64.82'	25.65'	2.06'	2.5" D.B.
11	VERIZON	519+49.52	-14.28'	26.08'	2.32'	2.5" D.B.

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

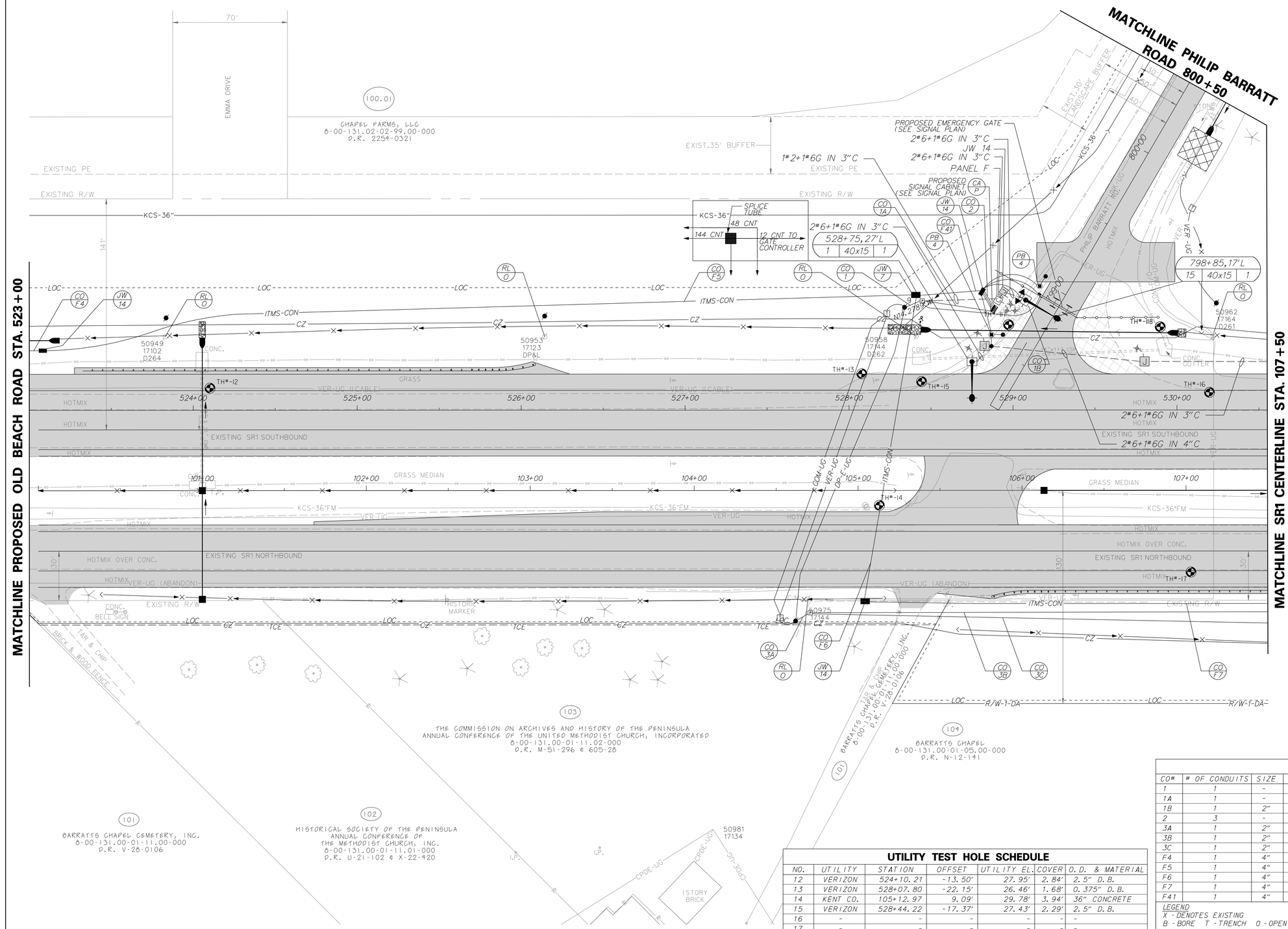
SCALE 0 30 60 90 FEET

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO.
477
TOTAL SHTS.
641



LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET — STATION, OFFSET
POL MH×AL ORCS — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

ITMS LEGEND

JW 11	PROPOSED JUNCTION WELL TYPE 11
JW 14	PROPOSED JUNCTION WELL TYPE 14
JW 7	PROPOSED JUNCTION WELL TYPE 7
CO X	PROPOSED CONDUIT RUN & IDENTIFIER (# OF CONDUIT RUN)
	PROPOSED RADAR DETECTION
	EXISTING RADAR DETECTION
	6'x6' LOOP DETECTOR
	EXISTING SIGNAL CABINET (TYPE P)
	PROPOSED SIGNAL CABINET (TYPE P)
	EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
	PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
	PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
	EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
ATR	AUTOMATIC TRAFFIC RECORDER (ATR)
ITMS-CON	4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
	VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
	PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
	EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

CONDUIT RUN SCHEDULE

CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE
1	1	-	10'	-	(1) 2/#8 U.F. w/GROUND (SEE SIGNAL PLAN)
1A	1	-	45'	-	(2) 2/#8 U.F. w/GROUND (SEE SIGNAL PLAN)
1B	1	2"	80'	T	(1) 2/#8 U.F. w/GROUND
2	3	-	10'	-	12 CNT SM (SEE SIGNAL PLAN)
3A	1	2"	40'	T	(1) 2/#8 U.F. w/GROUND
3B	1	2"	280'	T	(1) 2/#8 U.F. w/GROUND
3C	1	2"	280'	T	(1) 2/#8 U.F. w/GROUND
F4	1	4"	8'	T	48 CNT SM, 144 CNT SM
F5	1	4"	535'	T	48 CNT SM, 144 CNT SM
F6	1	4"	190'	B	48 CNT SM, 144 CNT SM
F7	1	4"	246'	T	48 CNT SM, 144 CNT SM
F41	1	4"	45'	T	12 CNT SM

LEGEND
X - DENOTES EXISTING
B - BORE T - TRENCH O - OPEN CUT

NOTE: ALL 4" CONDUIT TO BE MULTI-DUCT WITH FOUR ONE INCH INNER DUCTS. THE 1" INNER DUCTS SHALL BE SUPPLIED BY THE FIBER CONTRACTOR.

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	UTILITY EL.	COVER	O.D. & MATERIAL
12	VERIZON	524+10.21	-13.50'	27.95'	2.84'	2.5" D.B.
13	VERIZON	528+07.80	-22.15'	26.46'	1.68'	0.375" D.B.
14	KENT CO.	105+12.97	9.09'	29.78'	3.94'	36" CONCRETE
15	VERIZON	528+44.22	-17.37'	27.43'	2.29'	2.5" D.B.
16	-	-	-	-	-	-
17	-	-	-	-	-	-
117	VERIZON	798+66.73	-20.92'	28.87'	2.27'	2.5" D.B.
118	VERIZON	529+89.79	-50.74'	27.63'	2.50'	2.5" D.B.

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO. 478
TOTAL SHTS. 641

4/16/2015
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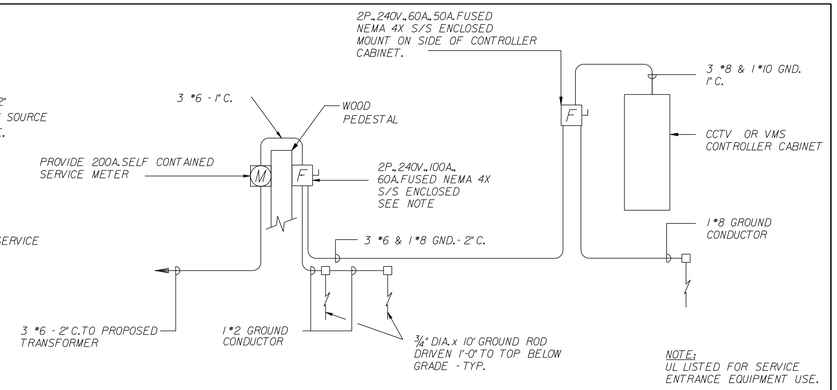
USER: WM

CONSTRUCTION NOTES

1. DELMARVA SHALL PROVIDE UTILITY SERVICE FOR ITMS DEVICES.

2. INSTALL WOOD PEDESTAL WITH DISCONNECT AND METER SOCKET IN ACCORDANCE WITH DELDOT AND DELMARVA REQUIREMENTS. APPROXIMATELY 10 FT OFF OF UTILITY SOURCE POLE. INSTALL ONE 2" GALVANIZED STEEL CONDUIT WITH THREE #6 AND NE #8 GND CABLES FOR POWER BETWEEN UTILITY SOURCE POLE AND WOOD PEDESTAL LOCATION. TRENCHED. EXTEND THIS POWER CONDUIT 3 FT ABOVE GRADE. ADJACENT TO UTILITY SOURCE POLE. INSTALL 33 FT RISER FROM CONDUIT TERMINATION POINT UP UTILITY POLE. WITH WEAHTERHEAD. COIL APPROXIMATELY 16 FT OF POWER CABLE AT WEATHERHEAD TO FACILITATE POWER COMPANY CONNECTION TO POWER CABLES. INSTALL ONE 2" GAVANIZED STEEL CONDUIT WITH THREE #6 AND ONE #8 GND CABLES FOR POWER BETWEEN WOOD PEDESTAL AND PROPOSED ELECTRICAL JUNCTION WELL LOCATION. TRENCHED.

3. INSTALL ONE 2.5" PVC SCHEDULE 80 CONDUIT WITH 12 CNT FIBER CABLE FOR COMMUNICATION SERVICE BETWEEN DEVICE AND PROPOSED JUNCTION WELL LOCATION. TRENCHED. EXTEND CONDUIT 3 FT ABOVE GRADE. ADJACENT TO UTILITY SOURCE POLE. CONNECT FIBER TO INTERFACE WITHIN JUNCTION WELL.



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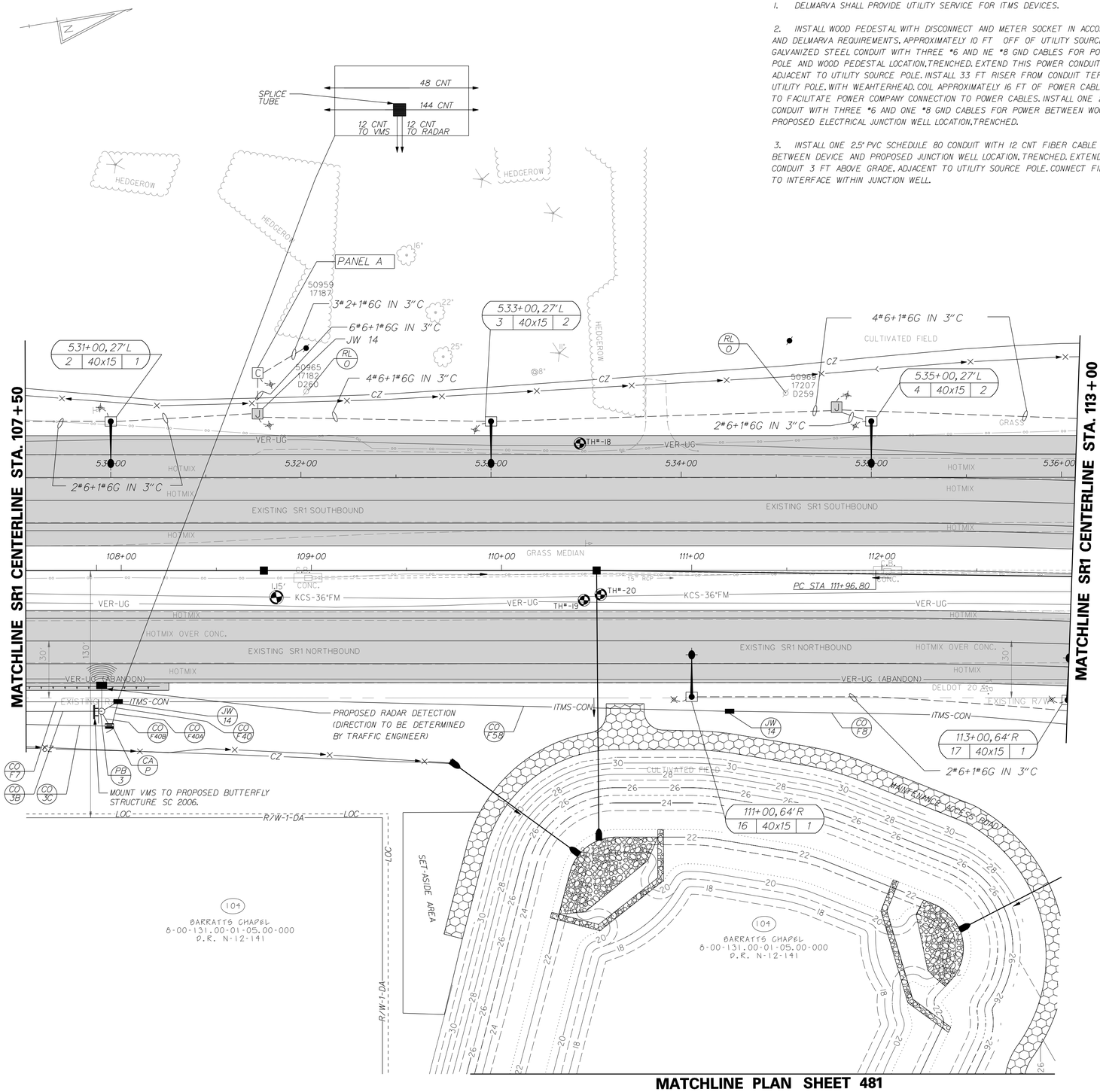
ELECTRICAL SERVICE SINGLE LINE DIAGRAM



CONDUIT RUN SCHEDULE

CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE
3A	1	2"	40'	T	(2) 2/#8 U.F. w/GROUND CABLE
3B	1	2"	40'	T	(2) 2/#8 U.F. w/GROUND CABLE
3C	1	2"	40'	T	(2) 2/#8 U.F. w/GROUND CABLE
F7	1	4"	46'	T	12 CNT SM, 48 CNT SINGLE MODE, 144 CNT SINGLE MODE
F8	1	4"	174'	T	48 CNT SM, 144 CNT SM
F40	1	3"	6'	T	12 CNT SM
F40A	1	3"	6'	T	12 CNT SM
F40B	1	3"	10'	T	RADAR CABLE
F58	1	4"	322'	T	48 CNT SM, 144 CNT SM

LEGEND
B - BORE T - TRENCH O - OPEN CUT

NOTE: ALL 4" CONDUIT TO BE MULTI-DUCT WITH FOUR ONE INCH INNER DUCTS. THE 1" INNER DUCTS SHALL BE SUPPLIED BY THE FIBER CONTRACTOR.

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	UTILITY EL.	COVER	O.D. & MATERIAL
18	VERIZON	533+46.76	-17.79'	28.08'	2.49'	2.5" D.B.
19	VERIZON	110+43.37	15.62'	27.08'	2.48'	2.5" D.B.
20	KENT CO.	110+52.18	12.65'	27.28'	1.79'	36" CONCRETE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
— —	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET — STATION, OFFSET
POL MH×AL ORCS — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

ITMS LEGEND

JW 11	PROPOSED JUNCTION WELL TYPE 11
JW 14	PROPOSED JUNCTION WELL TYPE 14
JW 7	PROPOSED JUNCTION WELL TYPE 7
CO X	PROPOSED CONDUIT RUN & IDENTIFIER (# OF CONDUIT RUN)
	PROPOSED RADAR DETECTION
	EXISTING RADAR DETECTION
	6'x6' LOOP DETECTOR
	EXISTING SIGNAL CABINET (TYPE P)
	PROPOSED SIGNAL CABINET (TYPE P)
	EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
	PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
	PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
	EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
ATR	AUTOMATIC TRAFFIC RECORDER (ATR)
ITMS-CON	4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
	VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
	PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
	EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	T200412202
COUNTY	KENT
BRIDGE NO.	-
DESIGNED BY:	SFP
CHECKED BY:	WFC

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO.	479
TOTAL SHTS.	641

4/16/2015
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UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	UTILITY EL.	COVER	O.D. & MATERIAL
21	KENT CO.	113+94.95	3.31′	25.13′	3.14′	36″ CONCRETE
22	VERIZON	114+49.98	5.38′	26.83′	2.48′	2.5″ D.B.
23	VERIZON	538+37.18	-13.97′	27.65′	2.28′	2.5″ D.B.
24	KENT CO.	115+26.44	-8.95′	26.48′	1.84′	36″ CONCRETE
25	VERIZON	115+46.74	-3.44′	27.05′	2.33′	3″ D.B.
26	VERIZON	117+89.10	-28.11′	28.54′	2.45′	3″ D.B.
27	KENT CO.	117+98.39	-36.44′	28.01′	1.83′	36″ CONCRETE
119	VERIZON	543+07.49	54.88	32.31′	2.94′	3″ D.B.

CONDUIT RUN SCHEDULE

CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE
F8	1	4″	400′	T	48 CNT SINGLE MODE, 144 CNT SINGLE MODE
F9	1	4″	342′	T	48 CNT SM, 144 CNT SM

LEGEND
B - BORE T - TRENCH O - OPEN CUT

NOTE: ALL 4" CONDUIT TO BE MULTI-DUCT WITH FOUR ONE INCH INNER DUCTS. THE 1" INNER DUCTS SHALL BE SUPPLIED BY THE FIBER CONTRACTOR.

ITMS LEGEND

- JW 11 — PROPOSED JUNCTION WELL TYPE 11
- JW 14 — PROPOSED JUNCTION WELL TYPE 14
- JW 7 — PROPOSED JUNCTION WELL TYPE 7
- CO X — PROPOSED CONDUIT RUN & IDENTIFIER (# OF CONDUIT RUN)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6′x6′ LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- ATR — AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4″ MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4″ SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1″ RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75′ POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75′ POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
— —	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24″ MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION, OFFSET		
POL	MHxAL	CIRCS

- STATION, OFFSET
- CIRCUIT NUMBER
- POLE HIEGHT AND ARM LENGTH
- POLE NUMBER

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

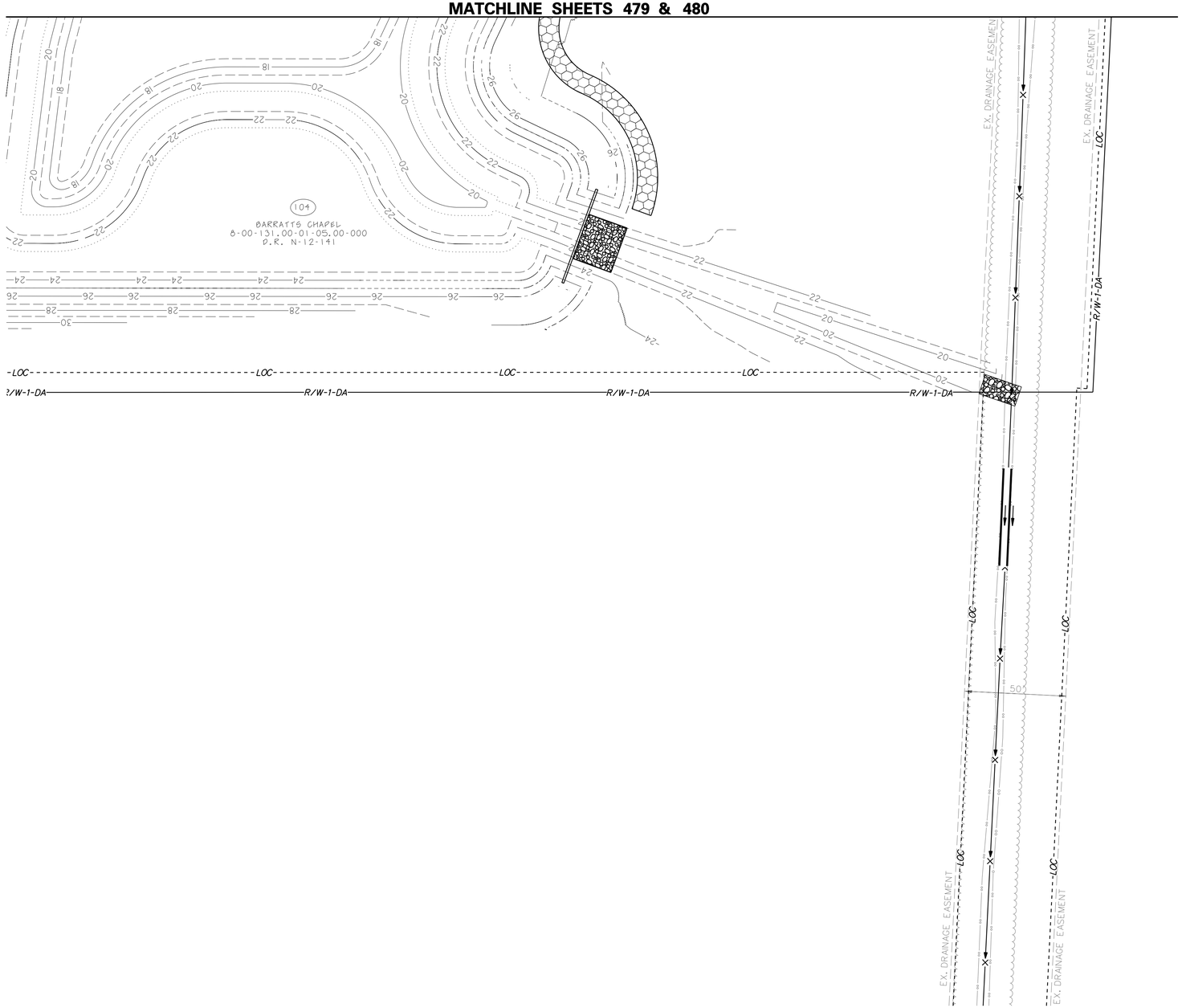
CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY		
KENT	CHECKED BY:	WFC

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO. 480

TOTAL SHTS. 641

MATCHLINE SHEETS 479 & 480



NO PROPOSED WORK TO BE DONE ON THIS SHEET

ITMS LEGEND

- JW 11 — PROPOSED JUNCTION WELL TYPE 11
- JW 14 — PROPOSED JUNCTION WELL TYPE 14
- JW 7 — PROPOSED JUNCTION WELL TYPE 7
- CO X — PROPOSED CONDUIT RUN & IDENTIFIER (* OF CONDUIT RUN)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- ATR — AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET — STATION, OFFSET
POL MH×AL ORCS — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO.
481
TOTAL SHTS.
641

12/30/2014
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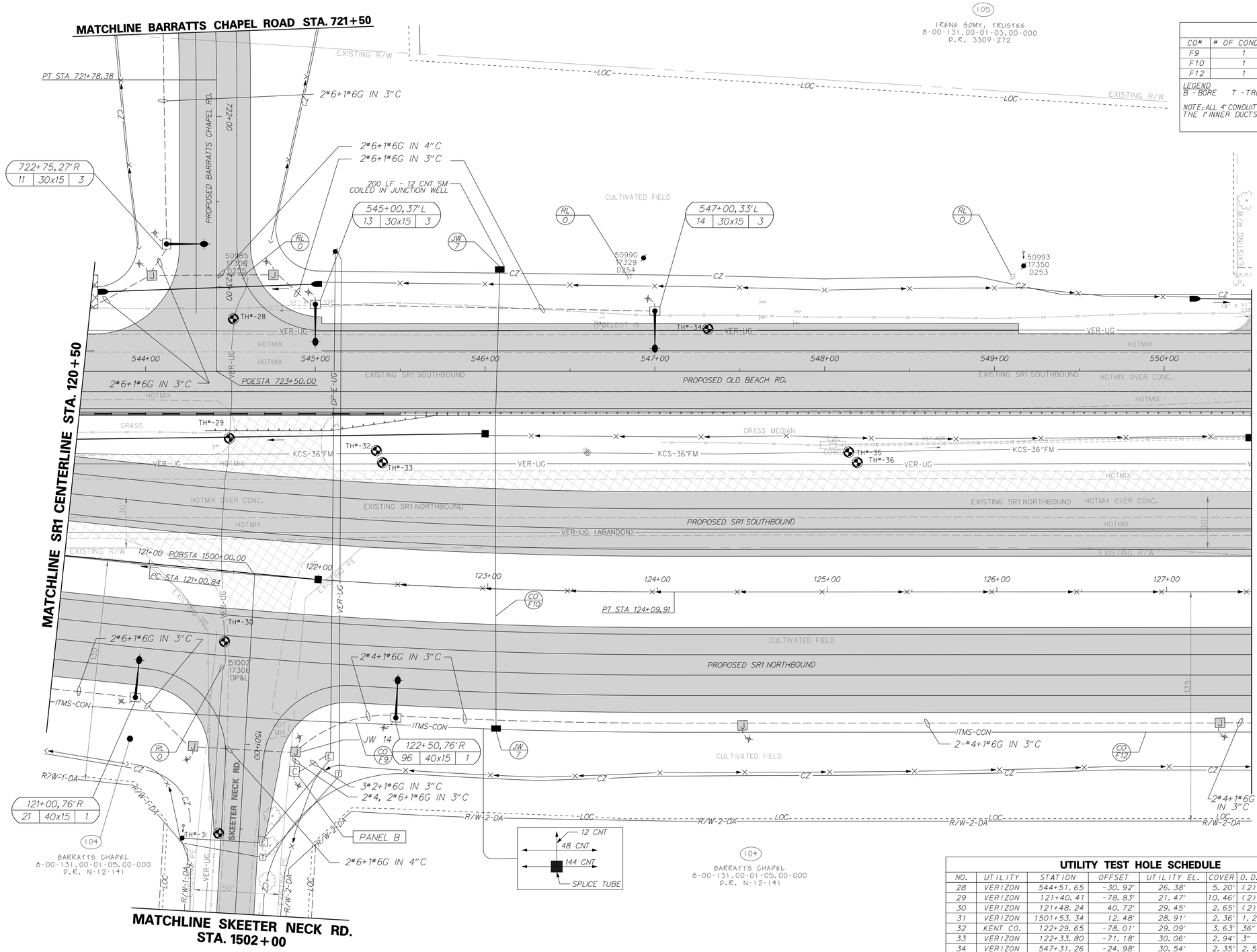

CONDUIT RUN SCHEDULE

CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE
F9	1	4"	261'	B	48 CNT SINGLE MODE, 144 CNT SINGLE MODE
F10	1	4"	270'	B	12 CNT SM (FUTURE)
F12	1	4"	443'	T	48 CNT SM, 144 CNT SM

LEGEND
B - BORE T - TRENCH O - OPEN CUT

NOTE: ALL 4" CONDUIT TO BE MULTI-DUCT WITH FOUR ONE INCH INNER DUCTS. THE 1" INNER DUCTS SHALL BE SUPPLIED BY THE FIBER CONTRACTOR.

NOTE:

1. FUTURE 12 CNT SINGLE MODE FIBER SHALL BE INSTALLED BY DELDOT TRAFFIC CONTRACTOR, WHEN WARRANTED.

ITMS LEGEND

- JW 11 — PROPOSED JUNCTION WELL TYPE 11
- JW 14 — PROPOSED JUNCTION WELL TYPE 14
- JW 7 — PROPOSED JUNCTION WELL TYPE 7
- CO X — PROPOSED CONDUIT RUN & IDENTIFIER (# OF CONDUIT RUN)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- ATR — AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
— —	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET
POL | MH×AL | ORES
STATION, OFFSET
CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	UTILITY EL.	COVER	O.D. & MATERIAL
28	VERIZON	544+51.65	-30.92'	26.38'	5.20'	(2)2.5" PVC
29	VERIZON	121+40.41	-78.83'	21.47'	10.46'	(2)2.5" PVC
30	VERIZON	121+48.24	40.72'	29.45'	2.65'	(2)2.5" PVC
31	VERIZON	1501+53.34	12.48'	28.91'	2.36'	1.25" D.B.
32	KENT CO.	122+29.65	-78.01'	29.09'	3.63'	36" CONCRETE
33	VERIZON	122+33.80	-71.18'	30.06'	2.94'	3" D.B.
34	VERIZON	547+31.26	-24.98'	30.54'	2.35'	2.5" D.B.
35	KENT CO.	125+12.74	-82.35'	29.34'	2.67'	36" CONCRETE
36	VERIZON	125+17.80	-76.19'	31.03'	2.20'	3" D.B.

DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE
0 30 60 90
FEET

SR1, LITTLE HEAVEN
GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO. 482
TOTAL SHTS. 641

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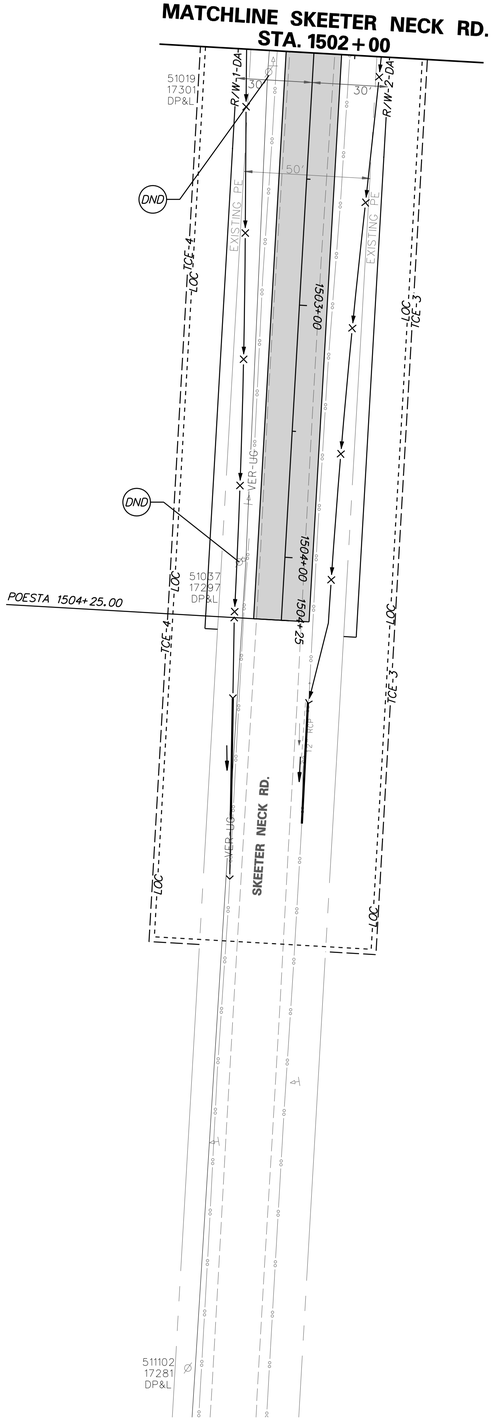

NO PROPOSED WORK TO BE DONE ON THIS SHEET

ITMS LEGEND

- JW 11 — PROPOSED JUNCTION WELL TYPE 11
- JW 14 — PROPOSED JUNCTION WELL TYPE 14
- JW 7 — PROPOSED JUNCTION WELL TYPE 7
- CO X — PROPOSED CONDUIT RUN & IDENTIFIER (* OF CONDUIT RUN)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- ATR — AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
■	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
— —	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
⏚	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET — STATION, OFFSET
POL MH×AL ORS — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	T200412202
COUNTY	KENT
BRIDGE NO.	-
DESIGNED BY:	SFP
CHECKED BY:	WFC

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO.	483
TOTAL SHTS.	641

12/30/2014
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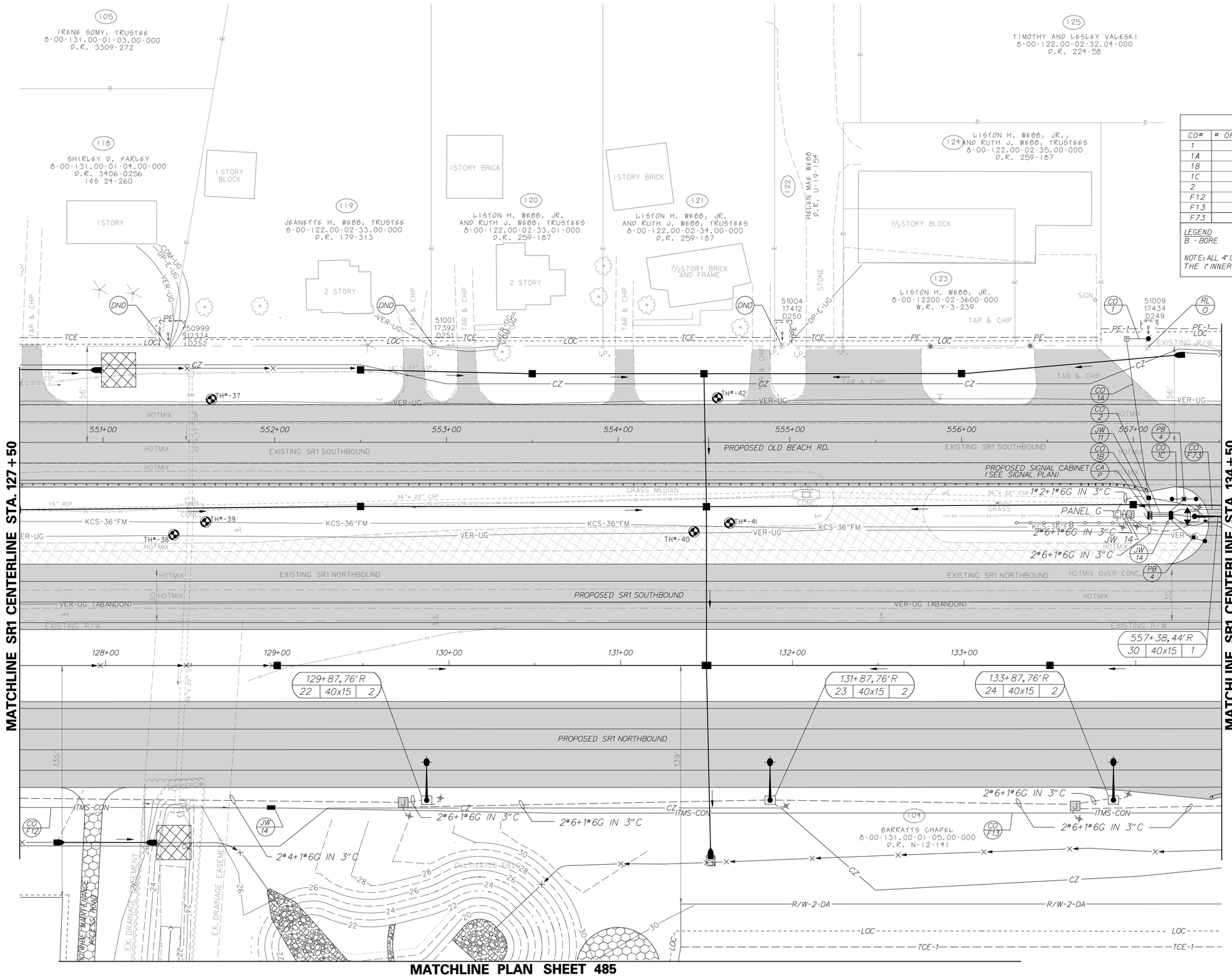

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	UTILITY EL.	COVER	O.D. & MATERIAL
37	VERIZON	551+63.07	-25.02'	29.23'	2.61'	2.5" D.B.
38	VERIZON	128+39.77	-76.20'	28.74'	3.06'	3" D.B.
39	KENT CO.	128+58.35	-83.64'	26.11'	4.72'	36" CONCRETE
40	VERIZON	131+42.72	-77.84'	27.88'	2.63'	3" D.B.
41	KENT CO.	131+63.49	-82.89'	24.68'	5.56'	36" CONCRETE
42	VERIZON	554+57.83	-25.83'	28.38'	2.70'	2.5" D.B.

CONDUIT RUN SCHEDULE

CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE
1	1	-	10'	-	(1) 2/#8 U.F. w/GROUND (SEE SIGNAL PLAN)
1A	1	-	95'	-	(1) 2/#8 U.F. w/GROUND (SEE SIGNAL PLAN)
1B	1	-	10'	-	(1) 2/#8 U.F. w/GROUND (SEE SIGNAL PLAN)
1C	1	2"	40'	T	(1) 2/#8 U.F. w/GROUND
2	3	-	10'	-	12 CNT SM (SEE SIGNAL PLAN)
F12	1	4"	145'	T	48 CNT SM, 144 CNT SM
F13	1	4"	550'	T	48 CNT SM, 144 CNT SM
F73	1	4"	30'	T	12 CNT SM

LEGEND
B - BORE T - TRENCH O - OPEN CUT

NOTE: ALL 4" CONDUIT TO BE MULTI-DUCT WITH FOUR ONE INCH INNER DUCTS. THE 1" INNER DUCTS SHALL BE SUPPLIED BY THE FIBER CONTRACTOR.

ITMS LEGEND

- JW 11 — PROPOSED JUNCTION WELL TYPE 11
- JW 14 — PROPOSED JUNCTION WELL TYPE 14
- JW 7 — PROPOSED JUNCTION WELL TYPE 7
- CO X — PROPOSED CONDUIT RUN & IDENTIFIER (# OF CONDUIT RUN)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- ATR — AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING
	24" MIN. BELOW FINISHED GRADE. GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET — STATION, OFFSET
POL MH×AL CRCS — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

4/20/2005
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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

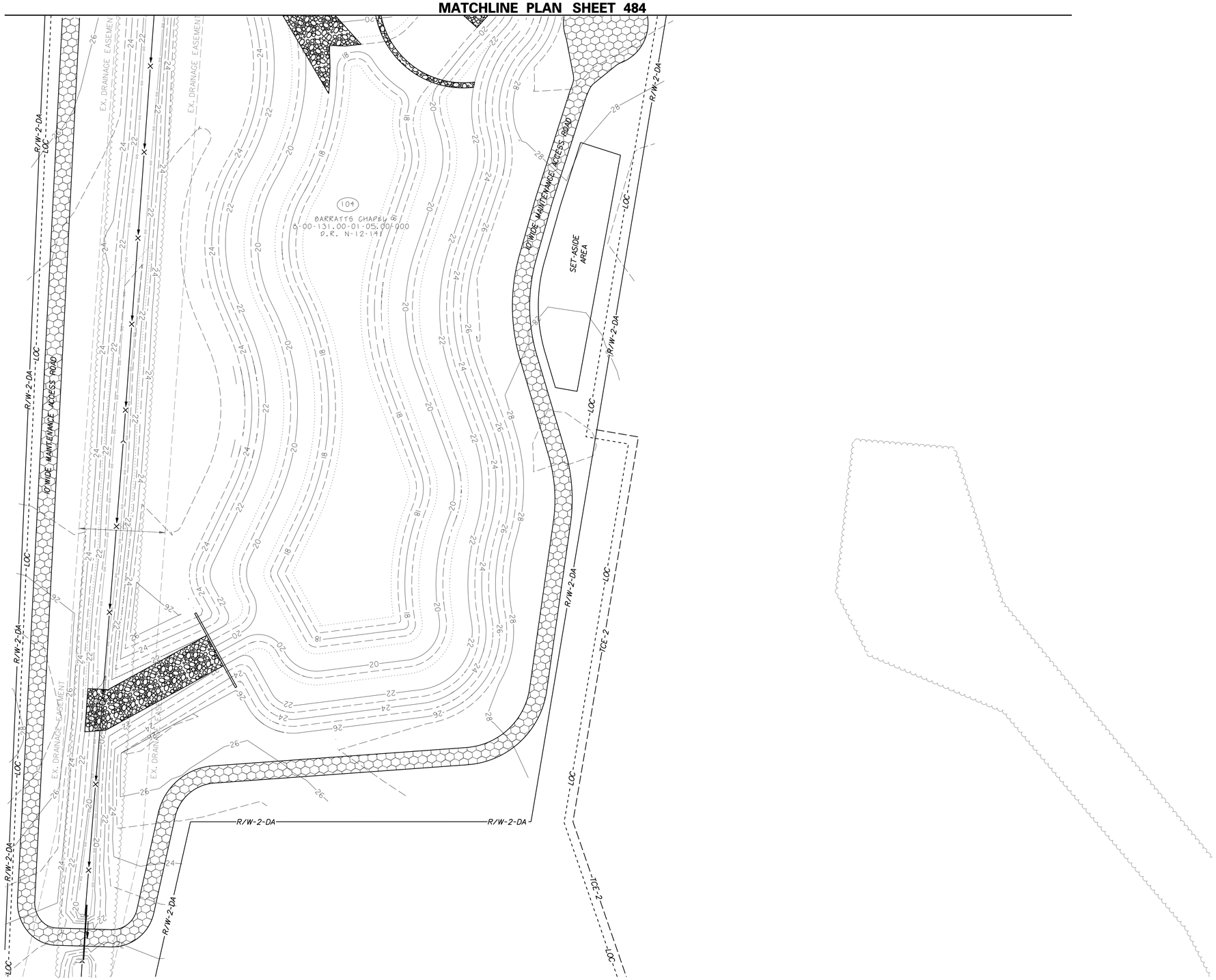
SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO.
484
TOTAL SHTS.
641

MATCHLINE PLAN SHEET 484



NO PROPOSED WORK TO BE DONE ON THIS SHEET

ITMS LEGEND

JW 11	PROPOSED JUNCTION WELL TYPE 11
JW 14	PROPOSED JUNCTION WELL TYPE 14
JW 7	PROPOSED JUNCTION WELL TYPE 7
CO X	PROPOSED CONDUIT RUN & IDENTIFIER (# OF CONDUIT RUN)
	PROPOSED RADAR DETECTION
	EXISTING RADAR DETECTION
	6'x6' LOOP DETECTOR
	EXISTING SIGNAL CABINET (TYPE P)
	PROPOSED SIGNAL CABINET (TYPE P)
	EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
	PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
	PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
	EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
ATR	AUTOMATIC TRAFFIC RECORDER (ATR)
ITMS-CON	4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
	VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
	PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
	EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION, OFFSET — STATION, OFFSET
POL MH×AL CIRCS — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

12/30/2014
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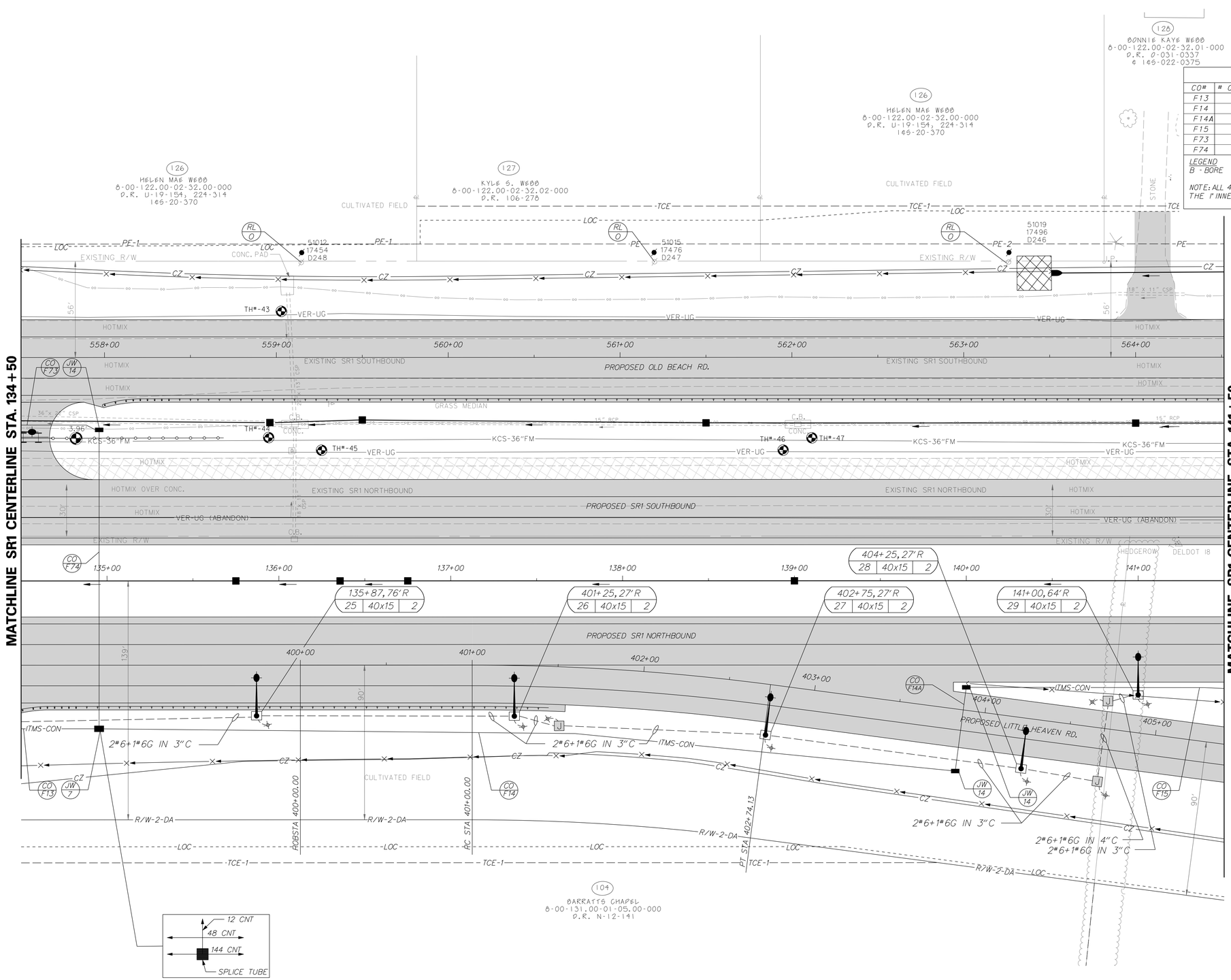
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION	CONTRACT T200412202	BRIDGE NO. -	UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS	SHEET NO. 485
				COUNTY KENT	DESIGNED BY: SFP		TOTAL SHTS. 641
					CHECKED BY: WFC		



CONDUIT RUN SCHEDULE

CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE
F13	1	4"	45'	T	48 CNT SINGLE MODE, 144 CNT SINGLE MODE
F14	1	4"	500'	T	48 CNT SM, 144 CNT SM
F14A	1	4"	50'	T	48 CNT SM, 144 CNT SM
F15	1	4"	150'	T	48 CNT SM, 144 CNT SM
F73	1	4"	45'	T	12 CNT SM
F74	1	4"	175'	B	12 CNT SM

LEGEND
B - BORE T - TRENCH O - OPEN CUT

NOTE: ALL 4" CONDUIT TO BE MULTI-DUCT WITH FOUR ONE INCH INNER DUCTS. THE 1" INNER DUCTS SHALL BE SUPPLIED BY THE FIBER CONTRACTOR.

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	UTILITY EL.	COVER	O.D. & MATERIAL
43	VERIZON	559+02.89	-26.85'	25.41'	2.76'	2.5" D.B.
44	KENT CO.	1.35+94.08	-83.41'	24.99'	3.03'	36" CONCRETE
45	VERIZON	1.36+24.85	-76.03'	25.81'	2.83'	3" D.B.
46	VERIZON	1.38+93.45	-76.06'	27.37'	2.25	3" D.B.
47	KENT CO.	1.39+10.17	-83.17'	26.40'	2.60'	36" CONCRETE

ITMS LEGEND

- JW 11 — PROPOSED JUNCTION WELL TYPE 11
- JW 14 — PROPOSED JUNCTION WELL TYPE 14
- JW 7 — PROPOSED JUNCTION WELL TYPE 7
- CO X — PROPOSED CONDUIT RUN & IDENTIFIER (# OF CONDUIT RUN)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- ATR — AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET — STATION, OFFSET
POL MH×AL ORCS — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO. 486
TOTAL SHTS. 641

4/6/2015
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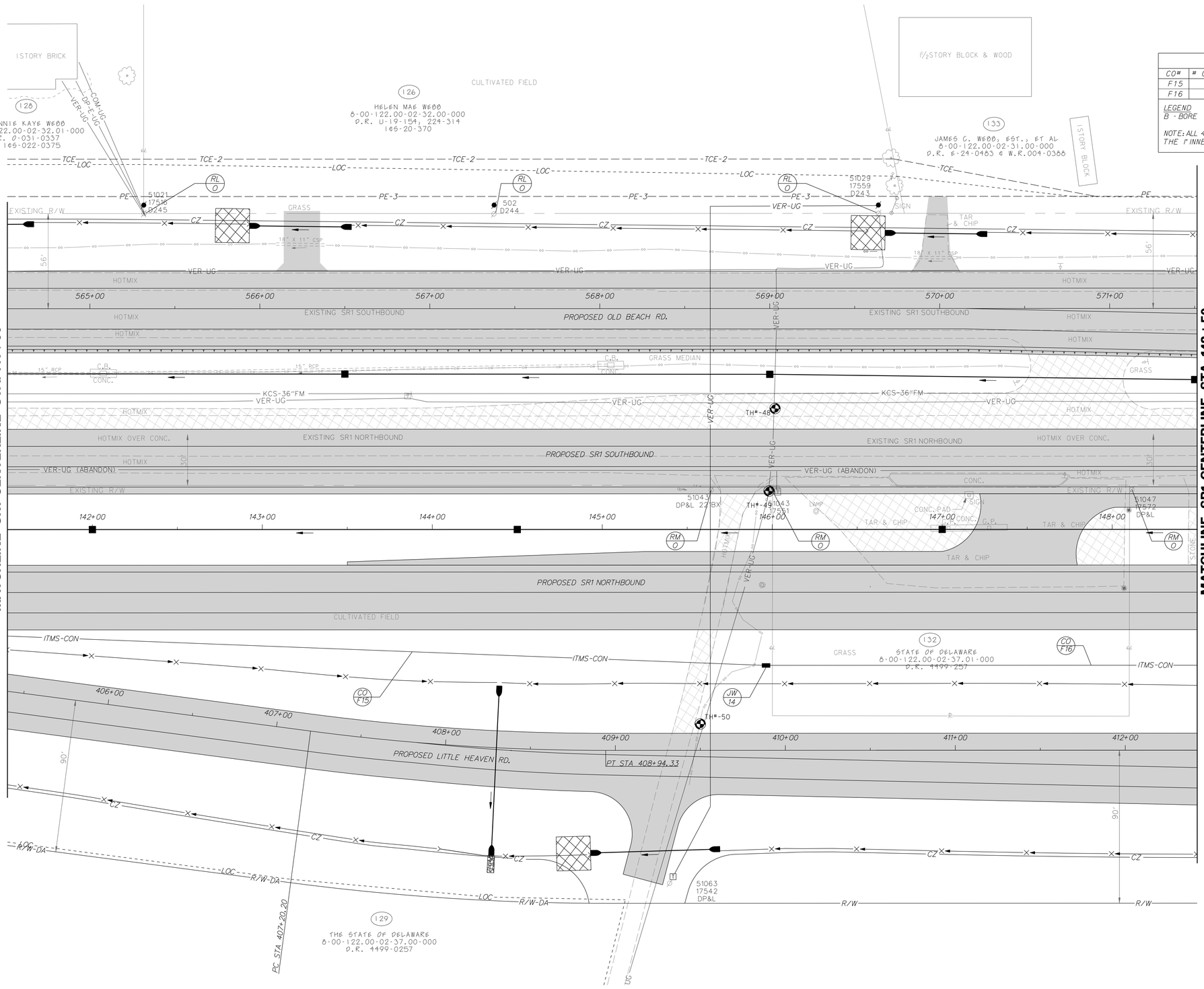

CONDUIT RUN SCHEDULE

CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE
F15	1	4"	446'	T	48 CNT SINGLE MODE, 144 CNT SINGLE MODE
F16	1	4"	254'	T	48 CNT SM, 144 CNT SM

LEGEND
B - BORE T - TRENCH O - OPEN CUT

NOTE: ALL 4" CONDUIT TO BE MULTI-DUCT WITH FOUR ONE INCH INNER DUCTS.
THE 1" INNER DUCTS SHALL BE SUPPLIED BY THE FIBER CONTRACTOR.

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	UTILITY EL.	COVER	O.D. & MATERIAL
48	VERIZON	146+01.68	-71.17'	32.27'	3.35'	1" D.B.
49	VERIZON	145+98.12	-22.60'	29.96'	2.49'	0.5" D.B.
50	VERIZON	409+49.99	-15.51'	26.84'	1.62'	0.5" D.B.

ITMS LEGEND

- JW 11 — PROPOSED JUNCTION WELL TYPE 11
- JW 14 — PROPOSED JUNCTION WELL TYPE 14
- JW 7 — PROPOSED JUNCTION WELL TYPE 7
- CO X — PROPOSED CONDUIT RUN & IDENTIFIER (# OF CONDUIT RUN)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- ATR — AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
— —	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET — STATION, OFFSET
POL MH×AL DRS — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	T200412202
COUNTY	KENT

BRIDGE NO.	-
DESIGNED BY:	SFP
CHECKED BY:	WFC

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO. 487
TOTAL SHTS. 641

4/16/2015
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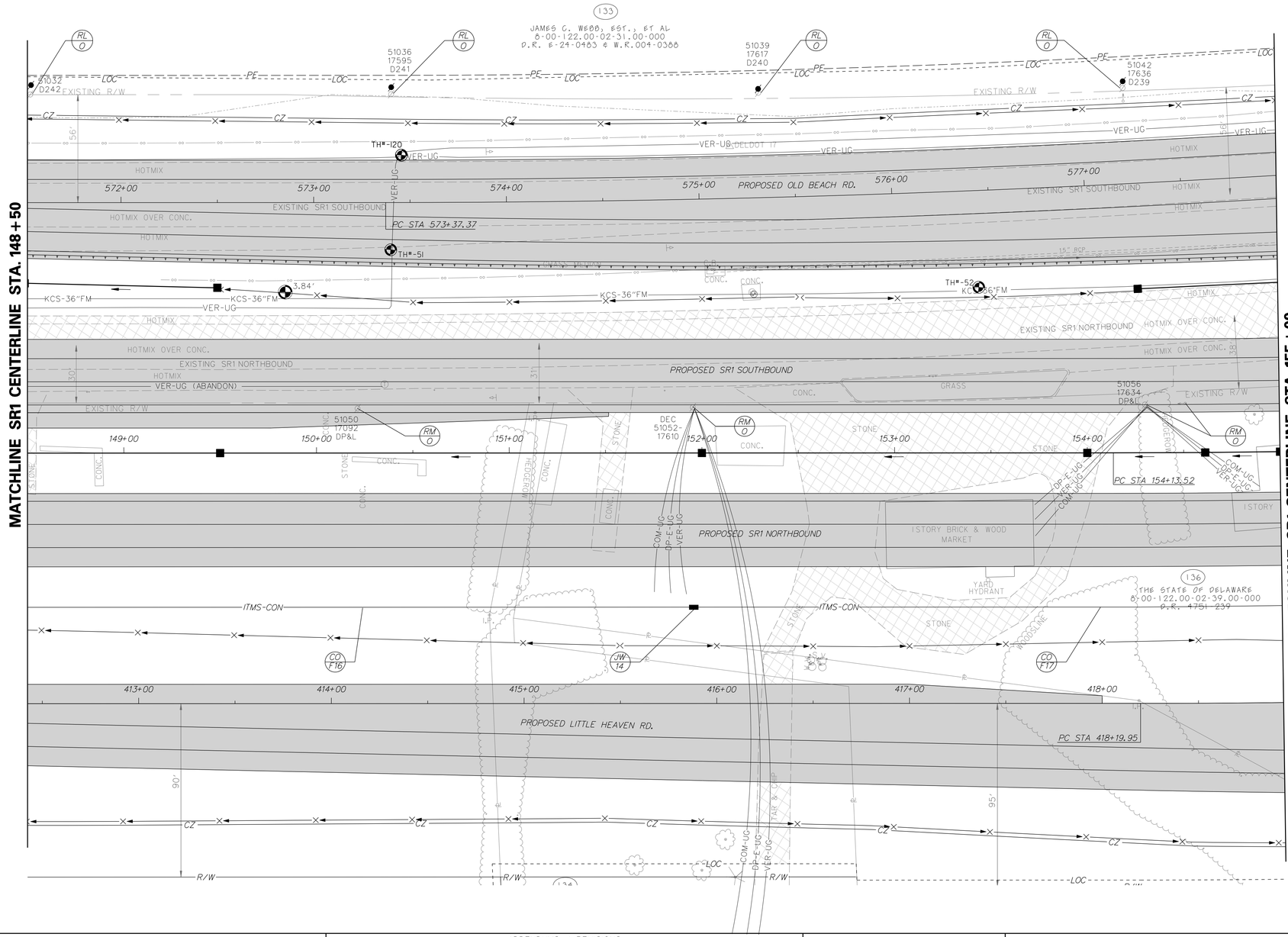

CONDUIT RUN SCHEDULE

CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE
F16	1	4"	345'	T	48 CNT SINGLE MODE, 144 CNT SINGLE MODE
F17	1	4"	305'	T	48 CNT SM, 144 CNT SM

LEGEND
B - BORE T - TRENCH O - OPEN CUT

NOTE: ALL 4" CONDUIT TO BE MULTI-DUCT WITH FOUR ONE INCH INNER DUCTS.
THE 1" INNER DUCTS SHALL BE SUPPLIED BY THE FIBER CONTRACTOR.

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	UTILITY EL.	COVER	O.D. & MATERIAL
51	VERIZON	573+39.98	24.52'	28.81'	3.64'	4" PVC
52	KENT CO.	576+43.23	50.20'	27.86'	4.34'	36" CONCRETE
120	VERIZON	573+45.54	-24.57'	31.73'	3.34'	3" D.B.

ITMS LEGEND

- JW 11 — PROPOSED JUNCTION WELL TYPE 11
- JW 14 — PROPOSED JUNCTION WELL TYPE 14
- JW 7 — PROPOSED JUNCTION WELL TYPE 7
- CO X — PROPOSED CONDUIT RUN & IDENTIFIER (# OF CONDUIT RUN)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- ATR — AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
— —	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET — STATION, OFFSET
POL MH×AL DRC — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE
0 30 60 90
FEET

SR1, LITTLE HEAVEN
GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO.
488
TOTAL SHTS.
641

4/16/2015
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UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	UTILITY EL.	COVER	O.D. & MATERIAL
53	VERIZON	580+84.14	-25.66'	27.66'	2.20'	2.5" D.B.
53A	VERIZON	580+84.27	-28.40'	26.09'	3.29'	3" D.B.
54	KENT CO.	581+61.69	50.54'	26.40'	3.85'	36" CONCRETE

ITMS LEGEND

- JW 11 — PROPOSED JUNCTION WELL TYPE 11
- JW 14 — PROPOSED JUNCTION WELL TYPE 14
- JW 7 — PROPOSED JUNCTION WELL TYPE 7
- CO X — PROPOSED CONDUIT RUN & IDENTIFIER (# OF CONDUIT RUN)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- ATR — AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
— —	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
⏚	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET — STATION, OFFSET
POL MH×AL ORS — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

CONDUIT RUN SCHEDULE

CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE
F17	1	4"	175'	T	48 CNT SINGLE MODE, 144 CNT SINGLE MODE
F18	1	4"	470'	T	48 CNT SM, 144 CNT SM
F19	1	4"	15'	T	48 CNT SM, 144 CNT SM

LEGEND
B - BORE T - TRENCH O - OPEN CUT

NOTE: ALL 4" CONDUIT TO BE MULTI-DUCT WITH FOUR ONE INCH INNER DUCTS. THE 1" INNER DUCTS SHALL BE SUPPLIED BY THE FIBER CONTRACTOR.

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	T200412202
COUNTY	KENT
BRIDGE NO.	-
DESIGNED BY:	SFP
CHECKED BY:	WFC

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO.	489
TOTAL SHTS.	641

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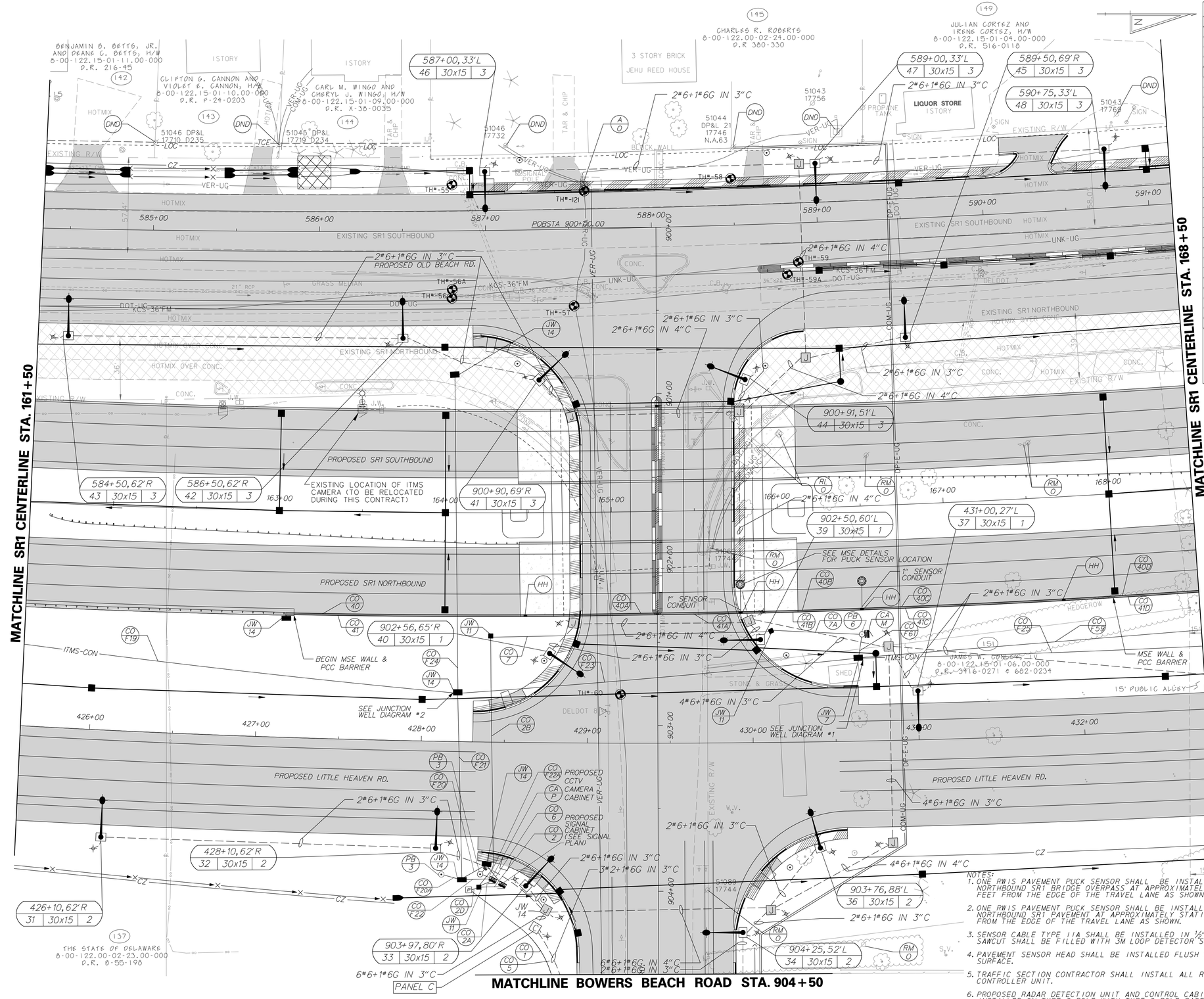

CONDUIT RUN SCHEDULE

CO*	* OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE
1	1	-	68'	-	(1) 2/*8 UFW/GROUND (SEE SIGNAL PLANS)
2	1	-	10'	-	(1) 2/*8 UFW/GROUND (SEE SIGNAL PLANS)
2A	1	2"	15'	T	(1) 2/*8 UFW/GROUND
2B	1	2"	155'	T	(1) 2/*8 UFW/GROUND
2D	1	2"	5'	-	(3) 2/*8 UFW/GROUND (SEE SIGNAL PLANS)
5	1	-	40'	-	EMPTY (SEE SIGNAL PLANS)
6	3	-	15'	-	12 CNT SM (SEE SIGNAL PLANS)
7	1	2"	170'	B	(1) 2/*8 UFW/GROUND
7A	1	3"	55'	T	(1) 2/*8 UFW/GROUND
40	1	xx2.5"	145'	—	EMPTY
40A	1	xx2.5"	130'	—	EMPTY
40B	1	xx2.5"	75'	—	SENSOR CABLE TYPE IIA
40C	1	xx2.5"	125'	—	(2) SENSOR CABLE TYPE IIA
40D	1	xx2.5"	130'	—	(2) SENSOR CABLE TYPE IIA
41	1	xx2.5"	145'	—	EMPTY
41A	1	xx2.5"	130'	—	EMPTY
41B	1	xx2.5"	75'	—	EMPTY
41C	1	xx2.5"	125'	—	EMPTY
41D	1	xx2.5"	130'	—	EMPTY
F19	1	4"	263'	T	48 CNT SINGLE MODE, 144 CNT SINGLE MODE
F20	1	4"	20'	T	12 CNT SM
F20A	1	3"	20'	T	COAXIAL CABLE
F21	1	4"	115'	T	(3) 12 CNT SM
F22	1	4"	10'	T	(2) 12 CNT SM, COAXIAL CABLE
F22A	1	3"	10'	T	CAMERA CABLE
F23	1	4"	243'	T	48 CNT SM, 144 CNT SM
F24	1	4"	192'	T	EMPTY
F25	1	4"	208'	T	48 CNT SM, 144 CNT SM
F59	1	4"	208'	T	(2)SENSOR CABLE TYPE IIA
F61	1	3"	15'	T	12 CNT SM (2)SENSOR CABLE TYPE IIA

LEGEND
B - BORE T - TRENCH O - OPEN CUT
xx - SCHEDULE 80 PVC CONDUIT IN PARAPET WALL.

NOTE: ALL 4" CONDUIT TO BE MULTI-DUCT WITH FOUR ONE INCH INNER DUCTS.
THE 1" INNER DUCTS SHALL BE SUPPLIED BY THE FIBER CONTRACTOR.

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	UTILITY EL.	COVER	O.D. & MATERIAL
55	VERIZON	586+80.08	-27.83'	22.23'	4.70'	(12) 4" PVC
56	DELDOT	586+79.43	40.50'	24.72'	1.96'	21" RCP
56	VERIZON	586+79.43	40.50'	24.06'	2.62'	3" D.B.
56A	KENT CO.	586+79.69	35.30'	22.34'	4.43'	36" CONCRETE
57	VERIZON	587+52.58	46.22'	22.57'	4.79'	(6) 4" PVC
58	VERIZON	588+48.71	-28.04'	23.97'	3.25'	(2) 4" PVC
58	VERIZON	588+48.71	-28.04'	23.09'	4.13'	(4) 4" PVC
59	DELDOT	588+87.75	23.45'	24.86'	1.62'	12" RCP
59	VERIZON	588+87.75	23.45'	23.78'	2.70'	(1) 3" D.B.
59A	KENT CO.	588+80.95	30.78'	22.76'	4.25'	36" CONCRETE
60	VERIZON	429+19.93	-29.35'	24.82'	3.21'	(6) 4" PVC
121	VERIZON	587+59.91	-22.95'	22.09'	4.38'	(6) 4" PVC

ITMS LEGEND

- JW 11 — PROPOSED JUNCTION WELL TYPE 11
- JW 14 — PROPOSED JUNCTION WELL TYPE 14
- JW 7 — PROPOSED JUNCTION WELL TYPE 7
- CO X — PROPOSED CONDUIT RUN & IDENTIFIER (* OF CONDUIT RUN)
- CA P — PROPOSED TRAFFIC CABINET IDENTIFIER (CABINET TYPE)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 25' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- HH — 9"X9"X6" HAND HOLE IN PARAPET WALL

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W. COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
— - —	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
+	GROUND ROD

POLE IDENTIFICATION
STATION,OFFSET — STATION, OFFSET
POL MH x AL CRCT — CIRCUIT NUMBER
POLE HEIGHT AND ARM LENGTH
POLE NUMBER

NOTES:
1. ONE RWIS PAVEMENT PUCK SENSOR SHALL BE INSTALLED ON PROPOSED NORTHBOUND SR1 BRIDGE OVERPASS AT APPROXIMATELY STA. 165+77, 4 FEET FROM THE EDGE OF THE TRAVEL LANE AS SHOWN.
2. ONE RWIS PAVEMENT PUCK SENSOR SHALL BE INSTALLED IN PROPOSED NORTHBOUND SR1 PAVEMENT AT APPROXIMATELY STATION 166+49, 4 FEET FROM THE EDGE OF THE TRAVEL LANE AS SHOWN.
3. SENSOR CABLE TYPE IIA SHALL BE INSTALLED IN 1/4" x 1 1/2" SAWCUT. THE SAWCUT SHALL BE FILLED WITH 3M LOOP DETECTOR SEALANT.
4. PAVEMENT SENSOR HEAD SHALL BE INSTALLED FLUSH WITH FINISHED PAVEMENT SURFACE.
5. TRAFFIC SECTION CONTRACTOR SHALL INSTALL ALL RWIS EQUIPMENT AND CONTROLLER UNIT.
6. PROPOSED RADAR DETECTION UNIT AND CONTROL CABINET SHALL BE INSTALLED ON TYPE 6 POLE WITH TYPE 6 POLE BASE.

DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, LITTLE HEAVEN
GRADE SEPARATED INTERSECTION

CONTRACT	T200412202
COUNTY	KENT
BRIDGE NO.	-
DESIGNED BY:	SFP
CHECKED BY:	WFC

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO.	490
TOTAL SHTS.	641

4/17/2015
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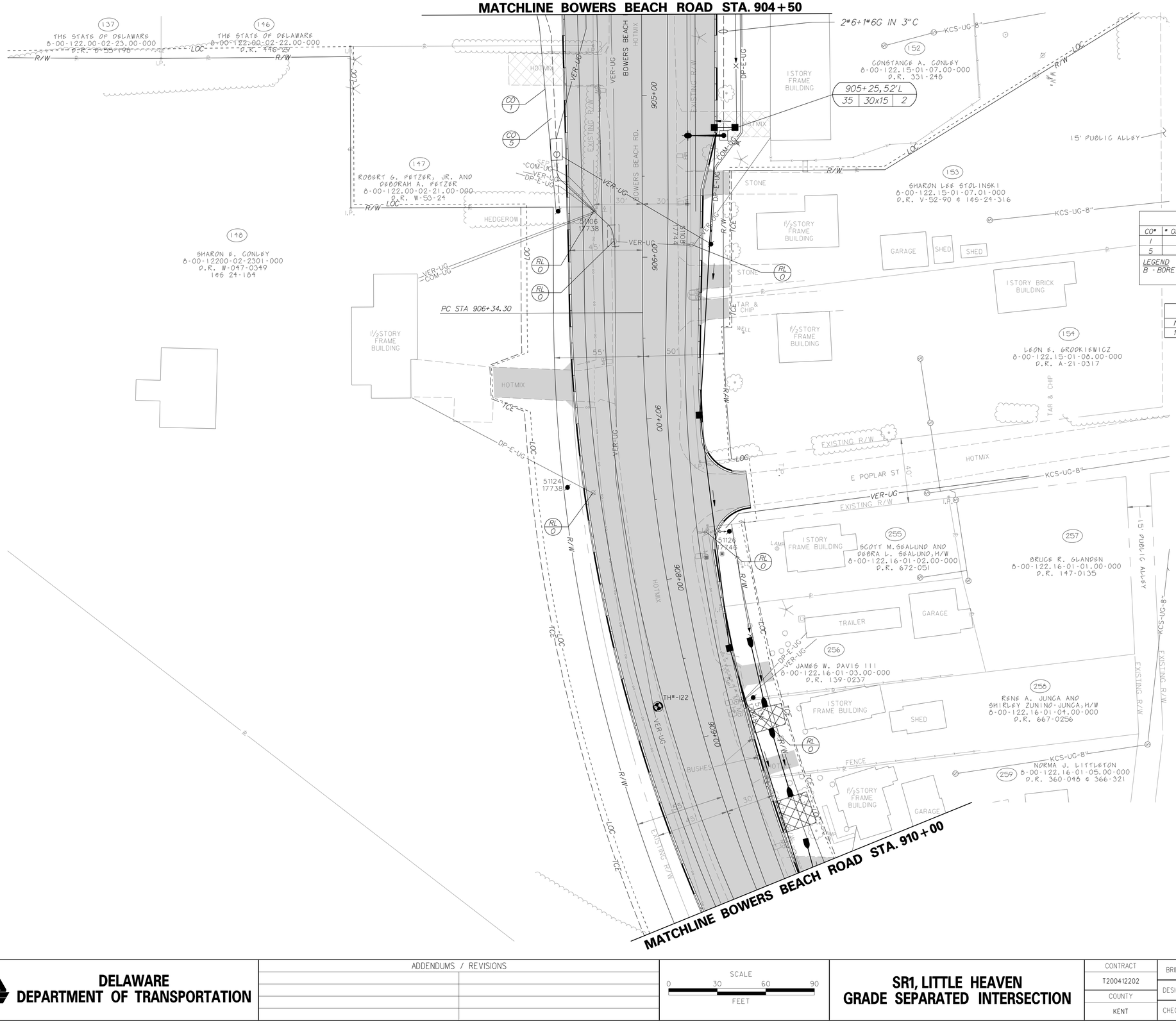

CONDUIT RUN SCHEDULE

CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE
1	1	-	122'	-	(1) 2/#8 UFW/GROUND (SEE SIGNAL PLANS)
5	1	-	83'	-	EMPTY (SEE SIGNAL PLANS)

LEGEND
B - BORE T - TRENCH O - OPEN CUT

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	UTILITY EL.	COVER	O.D. & MATERIAL
121	VERIZON	908+74.65	22.27'	22.09'	4.38'	(6) 4" PVC

ITMS LEGEND

- JW 11 — PROPOSED JUNCTION WELL TYPE 11
- JW 14 — PROPOSED JUNCTION WELL TYPE 14
- JW 7 — PROPOSED JUNCTION WELL TYPE 7
- CO X — PROPOSED CONDUIT RUN & IDENTIFIER (# OF CONDUIT RUN)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- ATR — AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET — STATION, OFFSET
POL MH×AL ORC — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO.
491
TOTAL SHTS.
641

4/17/2015
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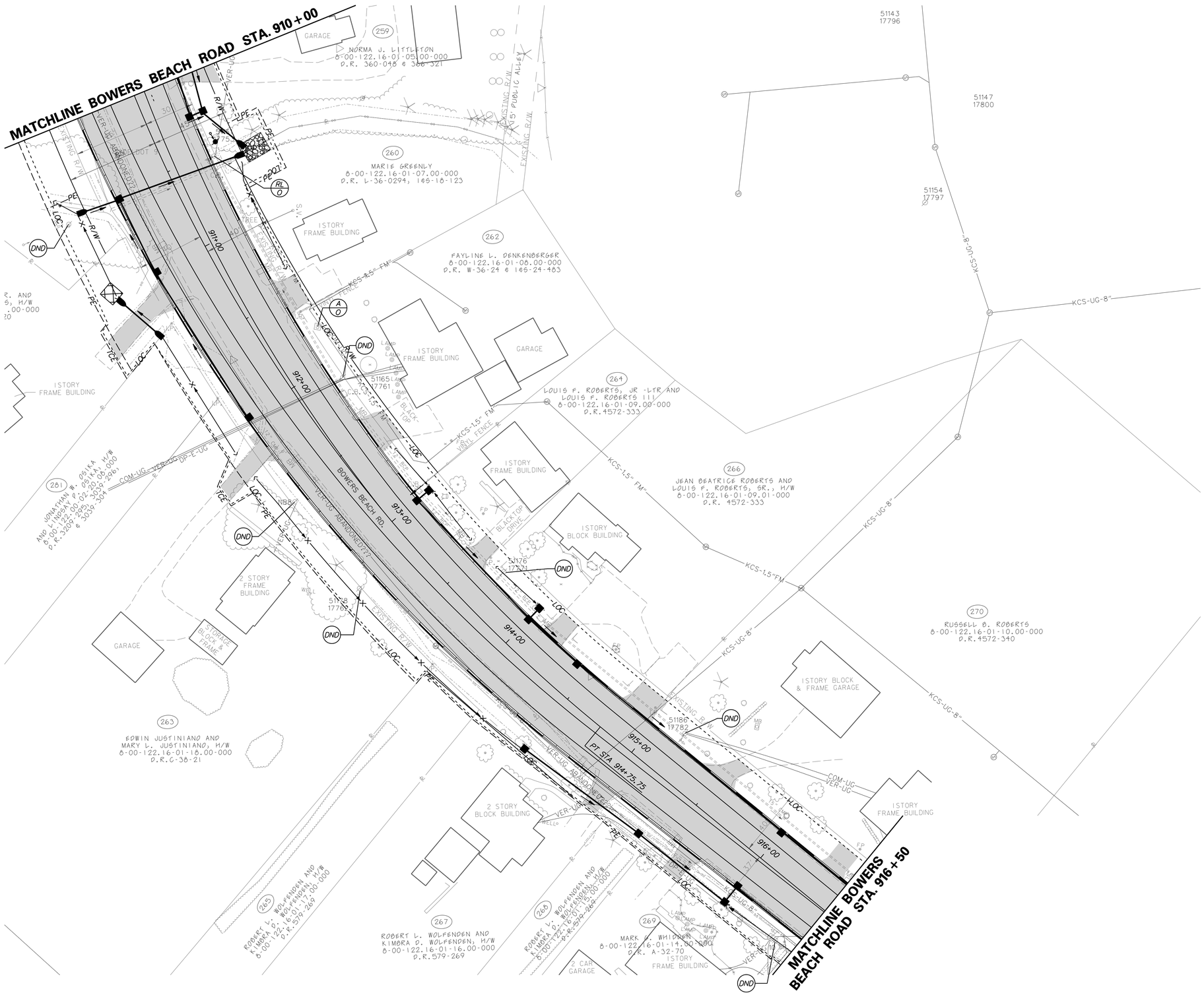

ITMS LEGEND

- JW 11 — PROPOSED JUNCTION WELL TYPE 11
- JW 14 — PROPOSED JUNCTION WELL TYPE 14
- JW 7 — PROPOSED JUNCTION WELL TYPE 7
- CO X — PROPOSED CONDUIT RUN & IDENTIFIER (* OF CONDUIT RUN)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- ATR — AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
– –	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET — STATION, OFFSET
POL MH×AL ORCS — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	T200412202
COUNTY	KENT
BRIDGE NO.	-
DESIGNED BY:	SFP
CHECKED BY:	WFC

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO.	492
TOTAL SHTS.	641

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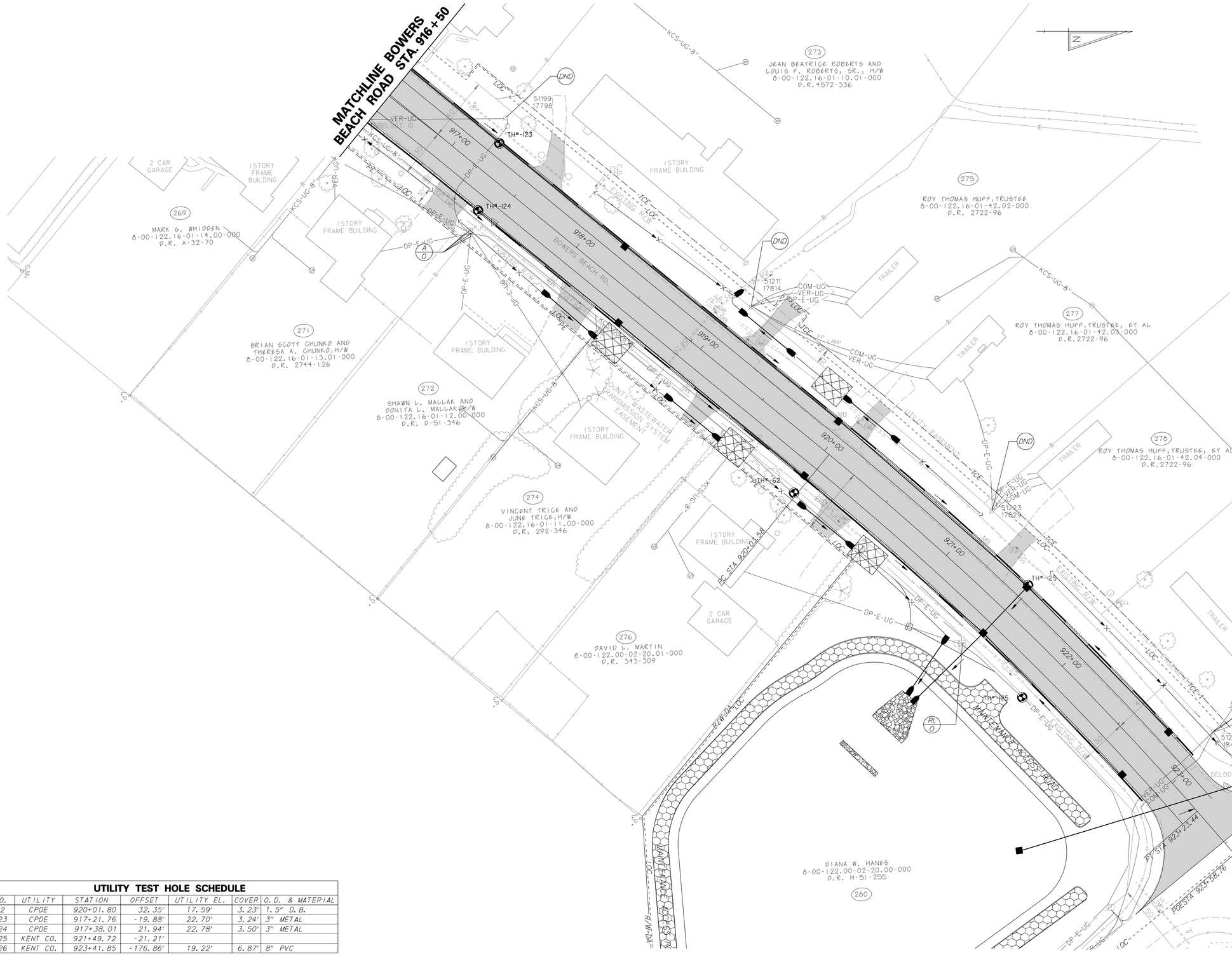

ITMS LEGEND

- PROPOSED JUNCTION WELL TYPE 11
- PROPOSED JUNCTION WELL TYPE 14
- PROPOSED JUNCTION WELL TYPE 7
- PROPOSED CONDUIT RUN & IDENTIFIER (# OF CONDUIT RUN)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
— —	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET — STATION, OFFSET
POL MH×AL ORCS — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	UTILITY EL.	COVER	O.D. & MATERIAL
62	CPDE	920+01.80	32.35'	17.59'	3.23'	1.5" D.B.
123	CPDE	917+21.76	-19.88'	22.70'	3.24'	3" METAL
124	CPDE	917+38.01	21.94'	22.78'	3.50'	3" METAL
125	KENT CO.	921+49.72	-21.21'			
126	KENT CO.	923+41.85	-176.86'	19.22'	6.87'	8" PVC

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO.
493
TOTAL SHTS.
641

4/16/2015
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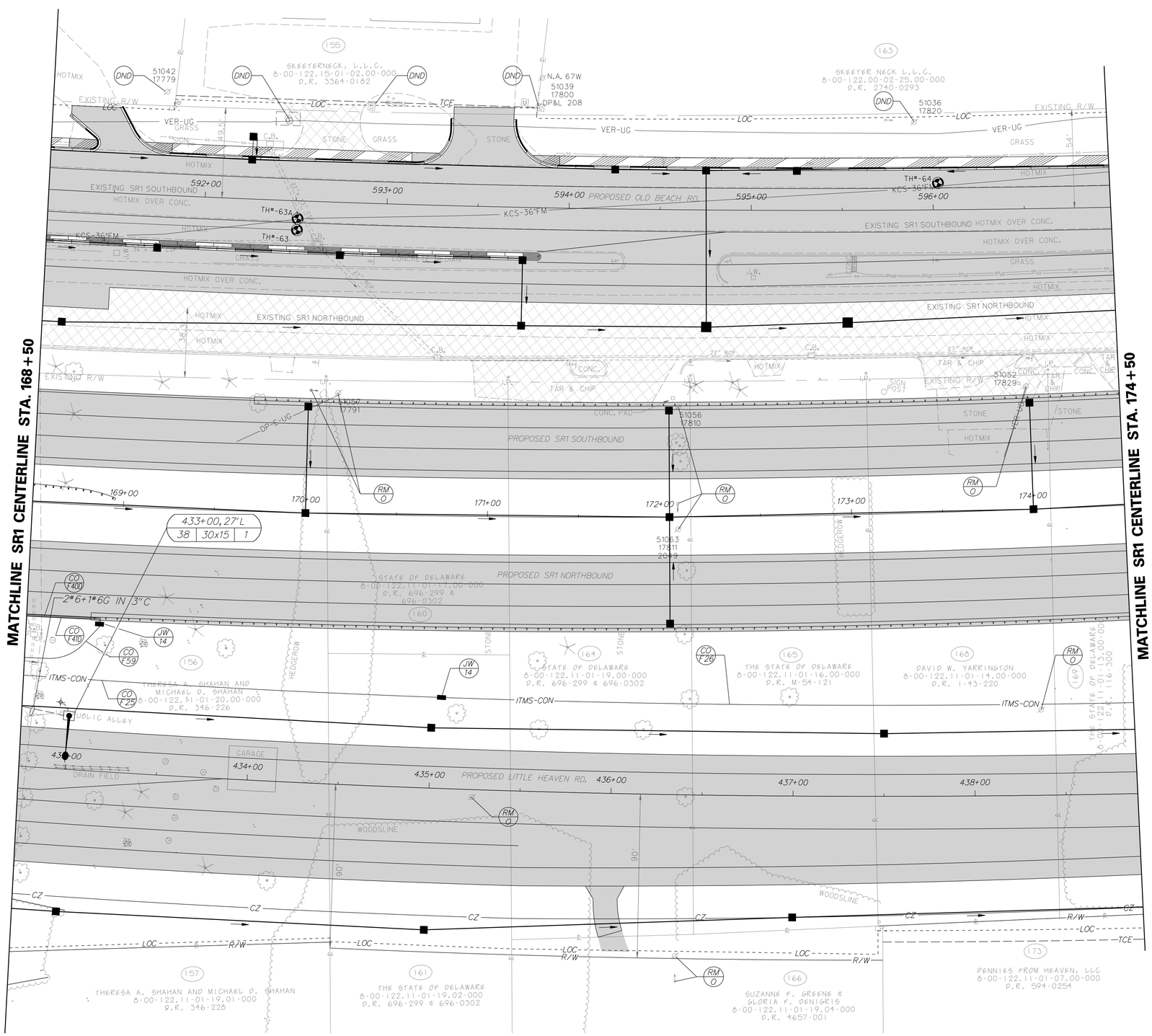

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	UTILITY EL.	COVER	O.D. & MATERIAL
63	VERIZON	592+51.02	16.06'	23.21'	2.69'	3" D.B.
63A	VERIZON	592+51.15	9.79'	21.62'	4.43'	36" CONCRETE
64	KENT CO.	596+02.72	-14.77'	21.79'	4.07'	36" CONCRETE

CONDUIT RUN SCHEDULE

CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE
F25	1	4"	230'	T	48 CNT SINGLE MODE, 144 CNT SINGLE MODE
F26	1	4"	380'	T	48 CNT SM, 144 CNT SM
40D	1	xx2.5"	45'	-	(2)SENSOR CABLE TYPE 11A
41D	1	xx2.5"	45'	-	EMPTY
F59	1	4"	50'	T	(2)SENSOR CABLE TYPE 11A

LEGEND
B - BORE T - TRENCH O - OPEN CUT xx - SCHEDULE 80 PVC CONDUIT IN PARAPET WALL

NOTE: ALL 4" CONDUIT TO BE MULTI-DUCT WITH FOUR ONE INCH INNER DUCTS.
THE 1" INNER DUCTS SHALL BE SUPPLIED BY THE FIBER CONTRACTOR.

ITMS LEGEND

- JW 11 — PROPOSED JUNCTION WELL TYPE 11
- JW 14 — PROPOSED JUNCTION WELL TYPE 14
- JW 7 — PROPOSED JUNCTION WELL TYPE 7
- CO X — PROPOSED CONDUIT RUN & IDENTIFIER (# OF CONDUIT RUN)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- ATR — AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
— —	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET — STATION, OFFSET
POL MH×AL ORS — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

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DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

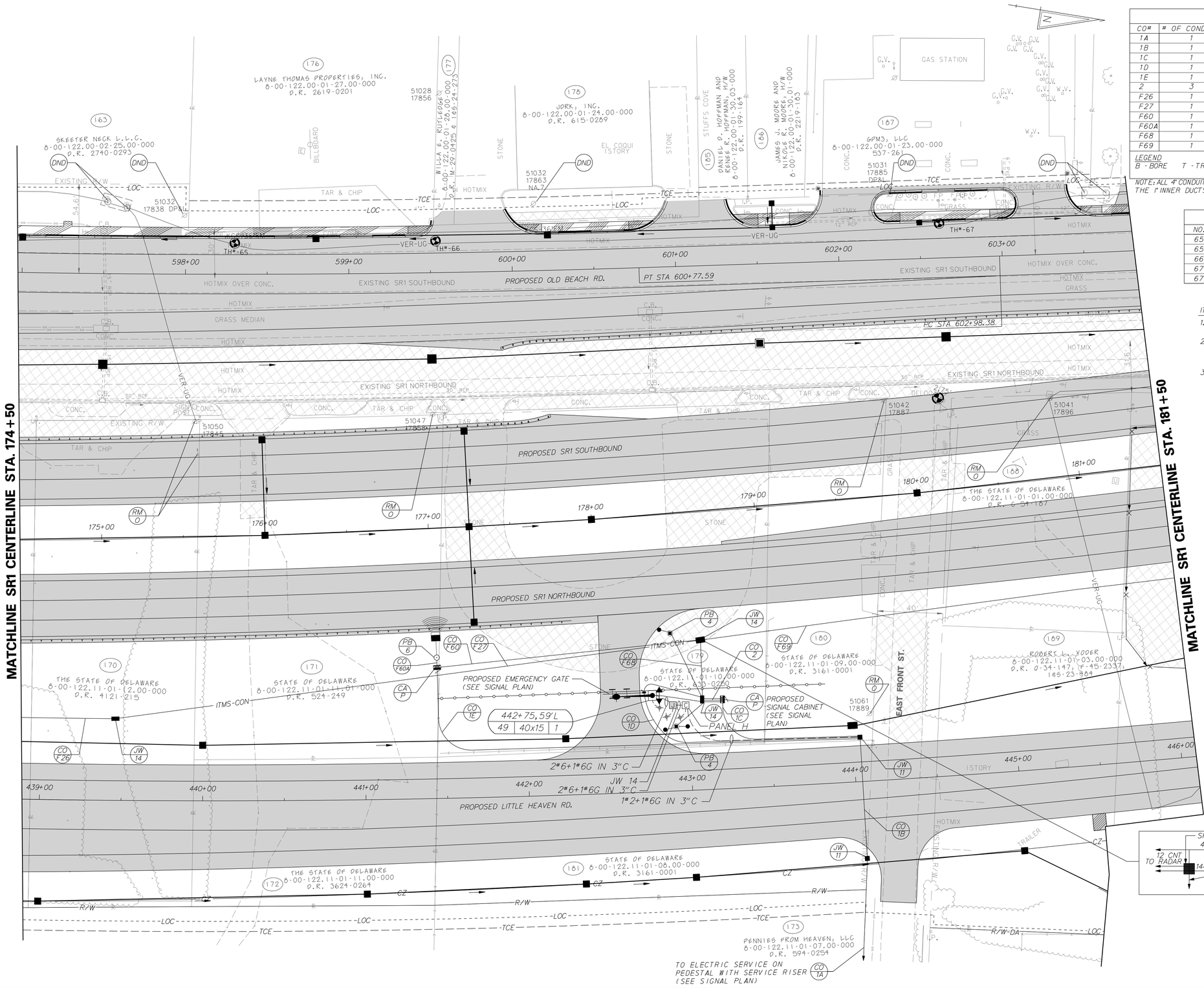
SCALE
0 30 60 90
FEET

SR1, LITTLE HEAVEN
GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO.
494
TOTAL SHTS.
641



CONDUIT RUN SCHEDULE

CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE
1A	1	-	72'	-	(3) 2/#8 U.F. w/GROUND (SEE SIGNAL PLAN)
1B	1	-	75'	-	(3) 2/#8 U.F. w/GROUND (SEE SIGNAL PLAN)
1C	1	-	100'	-	(1) 2/#8 U.F. w/GROUND (SEE SIGNAL PLAN)
1D	1	2"	150'	T	(1) 2/#8 U.F. w/GROUND
1E	1	2"	305'	T	(1) 2/#8 U.F. w/GROUND
2	3	-	10'	-	12 CNT SM (SEE SIGNAL PLAN)
F26	1	4"	58'	T	48 CNT SM, 144 CNT SM
F27	1	4"	361'	T	48 CNT SM, 144 CNT SM
F60	1	4"	160'	T	12 CNT SM
F60A	1	3"	160'	T	RADAR CABLE
F68	1	4"	35'	T	12 CNT SM
F69	1	4"	295'	T	48 CNT SM, 144 CNT SM

LEGEND
B - BORE T - TRENCH O - OPEN CUT

NOTE: ALL 4" CONDUIT TO BE MULTI-DUCT WITH FOUR ONE INCH INNER DUCTS. THE 1" INNER DUCTS SHALL BE SUPPLIED BY THE FIBER CONTRACTOR.

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	UTILITY EL.	COVER	O.D. & MATERIAL
65	VERIZON	598+30.20	-19.03'	22.70'	3.42'	2.5" D.B.
65	VERIZON	598+30.20	-19.03'	22.18'	3.94'	MULTIDUCT 4" PVC
66	VERIZON	599+53.34	-19.47'	22.37'	3.76'	(12) MULTIDUCT 4" PVC
67	VERIZON	602+63.05	-21.13'	24.13'	2.26'	2.5" D.B.
67	VERIZON	602+63.05	-21.13'	22.33'	4.06'	(12) MULTIDUCT 4" PVC

ITMS NOTE:

1. PROPOSED MICROWAVE RADAR DETECTION UNIT AND CONTROL CABINET SHALL BE INSTALLED ON A 40' RTMS POLE.
2. MICROWAVE RADAR DETECTION UNIT IS TO BE MOUNTED AT A MINIMUM MOUNTING HEIGHT OF 19' AND MAXIMUM MOUNTING HEIGHT OF 37' WITH A MANUFACTURER RECOMMENDED HEIGHT OF 29'. FIELD ADJUST MOUNTING HEIGHT AS REQUIRED TO ACHIEVE MAXIMUM DATA OUTPUT.
3. TRAFFIC SECTION CONTRACTOR SHALL INSTALL MICROWAVE RADAR DECTECTION EQUIPMENT AND CONTROLLER UNIT.

ITMS LEGEND

- JW 11 — PROPOSED JUNCTION WELL TYPE 11
- JW 14 — PROPOSED JUNCTION WELL TYPE 14
- JW 7 — PROPOSED JUNCTION WELL TYPE 7
- CO X — PROPOSED CONDUIT RUN & IDENTIFIER (# OF CONDUIT RUN)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- ATR — AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET — STATION, OFFSET
POL MH x AL ORCS — CIRCUIT NUMBER
POLE HEIGHT AND ARM LENGTH
POLE NUMBER

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DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

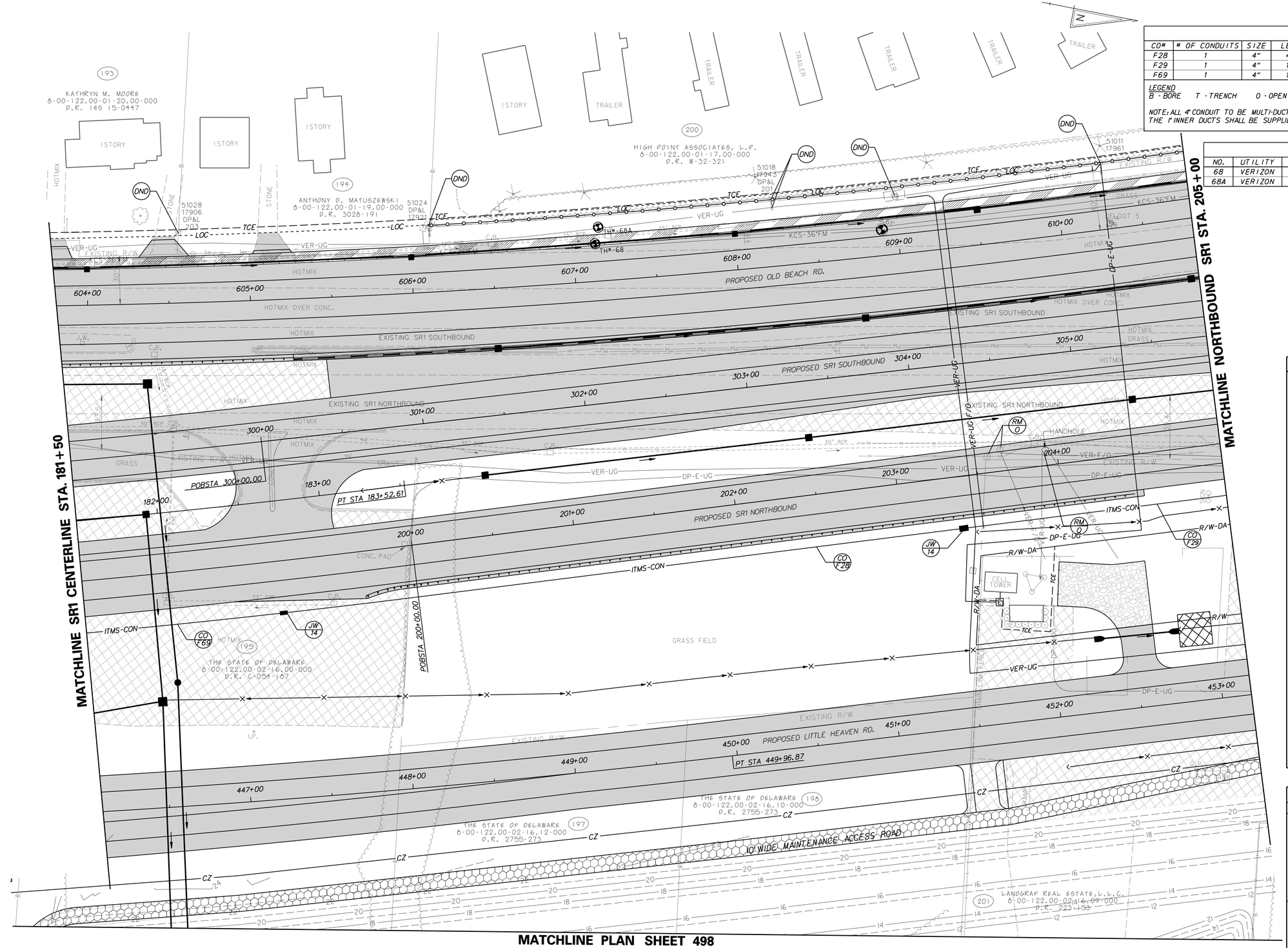
SCALE
0 30 60 90
FEET

SR1, LITTLE HEAVEN
GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO.
495
TOTAL SHTS.
641



CONDUIT RUN SCHEDULE

CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE
F28	1	4"	420'	T	48 CNT SINGLE MODE, 144 CNT SINGLE MODE
F29	1	4"	160'	T	48 CNT SM, 144 CNT SM
F69	1	4"	120'	T	48 CNT SM, 144 CNT SM

LEGEND
B - BORE T - TRENCH O - OPEN CUT

NOTE: ALL 4" CONDUIT TO BE MULTI-DUCT WITH FOUR ONE INCH INNER DUCTS.
THE 1" INNER DUCTS SHALL BE SUPPLIED BY THE FIBER CONTRACTOR.

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	UTILITY EL.	COVER	O.D. & MATERIAL
68	VERIZON	607+13.68	-23.08'	24.03'	2.27'	2.5" D.B.
68A	VERIZON	607+16.32	-33.06'	23.04'	2.94'	(12) MULTIDUCT 4" PVC

ITMS LEGEND

- JW 11 — PROPOSED JUNCTION WELL TYPE 11
- JW 14 — PROPOSED JUNCTION WELL TYPE 14
- JW 7 — PROPOSED JUNCTION WELL TYPE 7
- CO X — PROPOSED CONDUIT RUN & IDENTIFIER (* OF CONDUIT RUN)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- ATR — AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET — STATION, OFFSET
POL MH×AL ORCS — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE
0 30 60 90
FEET

SR1, LITTLE HEAVEN
GRADE SEPARATED INTERSECTION

CONTRACT	T200412202
COUNTY	KENT
BRIDGE NO.	-
DESIGNED BY:	SFP
CHECKED BY:	WFC

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO.	496
TOTAL SHTS.	641

4/16/2015
9:34:PROJECTS\035I7.00 (DELDOT AGMT 1223 DOTS Open End)\035I7.46 SR1_LITTLE HEAVEN FINAL DESIGN\DGN Files\up22th.dgn
SIZE208 PW

CONDUIT RUN SCHEDULE

CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE
F29	1	4"	397'	T	144 CNT SINGLE MODE, 48 CNT SINGLE MODE
F30	1	4"	300'	T	144 CNT SM, 48 CNT SM

LEGEND
B - BORE T - TRENCH O - OPEN CUT

NOTE: ALL 4" CONDUIT TO BE MULTI-DUCT WITH FOUR ONE INCH INNER DUCTS.
THE 1" INNER DUCTS SHALL BE SUPPLIED BY THE FIBER CONTRACTOR.

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	UTILITY EL.	COVER	O.D. & MATERIAL
69	VERIZON	206+46.95	22.58'	15.05'	5.51'	(2) 2.5" F.O.
70	VERIZON	206+85.26	31.03'	17.97'	2.61'	1" D.B.
71	CPDE	455+59.45	38.78'	14.67'	3.98'	4" PVC

ITMS LEGEND

- JW 11 — PROPOSED JUNCTION WELL TYPE 11
- JW 14 — PROPOSED JUNCTION WELL TYPE 14
- JW 7 — PROPOSED JUNCTION WELL TYPE 7
- CO X — PROPOSED CONDUIT RUN & IDENTIFIER (* OF CONDUIT RUN)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- ATR — AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION
STATION,OFFSET — STATION, OFFSET
POL MH×AL ORC — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

MATCHLINE NORTHBOUND SR1 STA. 205+00

MATCHLINE PROPOSED OLD BEACH ROAD STA. 613+00

MATCHLINE NORTHBOUND SR1 STA. 212+00

MATCHLINE SKEETER NECK ROAD 2603+36.34

1200+00, 19'L | 50 | 40x15 | 1

1202+00, 27'L | 51 | 40x15 | 1

1204+00, 31'L | 52 | 40x15 | 1

460+00, 27'L | 81 | 40x15 | 2

PROPOSED OLD BEACH RD.

OLD BEACH RD.

PROPOSED LITTLE HEAVEN RD. 457+00

PT STA 456+34.67

PC STA 454+14.56

PC STA 306+33.91

PC STA 1200+00.00

PC STA 205+05.40

PT STA 1202+29.36

PT STA 309+61.91

PT STA 208+74.85

2#6+1#6G IN 3"C

EXISTING SR1 SOUTHBOUND

EXISTING SR1 NORTHBOUND

PROPOSED SR1 SOUTHBOUND

PROPOSED SR1 NORTHBOUND

ITMS-CON

SKEETER NECK RD.

THE STATE OF DELAWARE
8-00-122.02-01-21.00-000
D.R. 6-52-157

THE STATE OF DELAWARE
8-00-122.02-01-00.00-000
D.R. 4370-275

FRANKLIN S. WILKING, TRUSTEE
8-00-122.02-01-20.00-000
D.R. 2452-120

WAYNE PIERSON
8-00-122.02-01-13.00-000
D.R. 266-008

PATRICIA A. NORTHROP
8-00-122.02-01-19.00-000
D.R. 6-25-164 & 166-18-347

PAUL J. MOLLOY
8-00-122.02-01-14.00-000
D.R. 470-...

BRYAN COSTERISAN
8-00-122.02-...
D.R. 66

JOHN E. ORTH AND THELMA W. ORTH, H/W
8-00-122.00-02-16.01-000
D.R. T-50-096

DELDOT 21

ISTORY BLOCK

ISTORY FRAME

ISTORY

SHED

CHAIN LINK FENCE

WOODSLINE

TAR & CHIP

GRASS

HOTMIX

HOTMIX OVER CONC.

CONC.

R/W-DA

VER-UG

DP-E-UG

DOT-UG

VER-F/O

CZ

LOC

TCE

DRAINAGE EASEMENT

EXISTING R/W

TH#-69

TH#-70

TH#-71

CO F29

CO F30

JW 14

RM 0

RL 0

DND

J

C

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE
0 30 60 90
FEET

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO.
497
TOTAL SHTS.
641

4/16/2015
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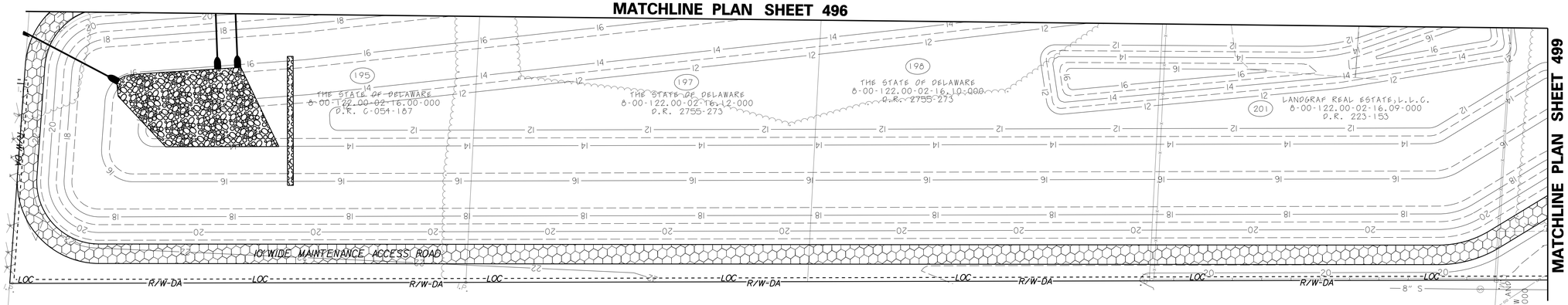
MATCHLINE PLAN SHEET 496



MATCHLINE PLAN SHEET 499

199
EASTWOOD MANOR LLC
8-00-122.00-02-16.11-000
D.R. 620-310

203
LAWRENCE W. MALLERY, SR. AND ROSE M. MALLERY, H/W
8-00-122.00-02-16.02-000
D.R. X-15-94

NO PROPOSED WORK TO BE DONE ON THIS SHEET

ITMS LEGEND

- JW 11 — PROPOSED JUNCTION WELL TYPE 11
- JW 14 — PROPOSED JUNCTION WELL TYPE 14
- JW 7 — PROPOSED JUNCTION WELL TYPE 7
- CO X — PROPOSED CONDUIT RUN & IDENTIFIER (* OF CONDUIT RUN)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- ATR — AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
— —	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET — STATION, OFFSET
POL MH×AL ORC — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO.
498
TOTAL SHTS.
641

12/30/2014
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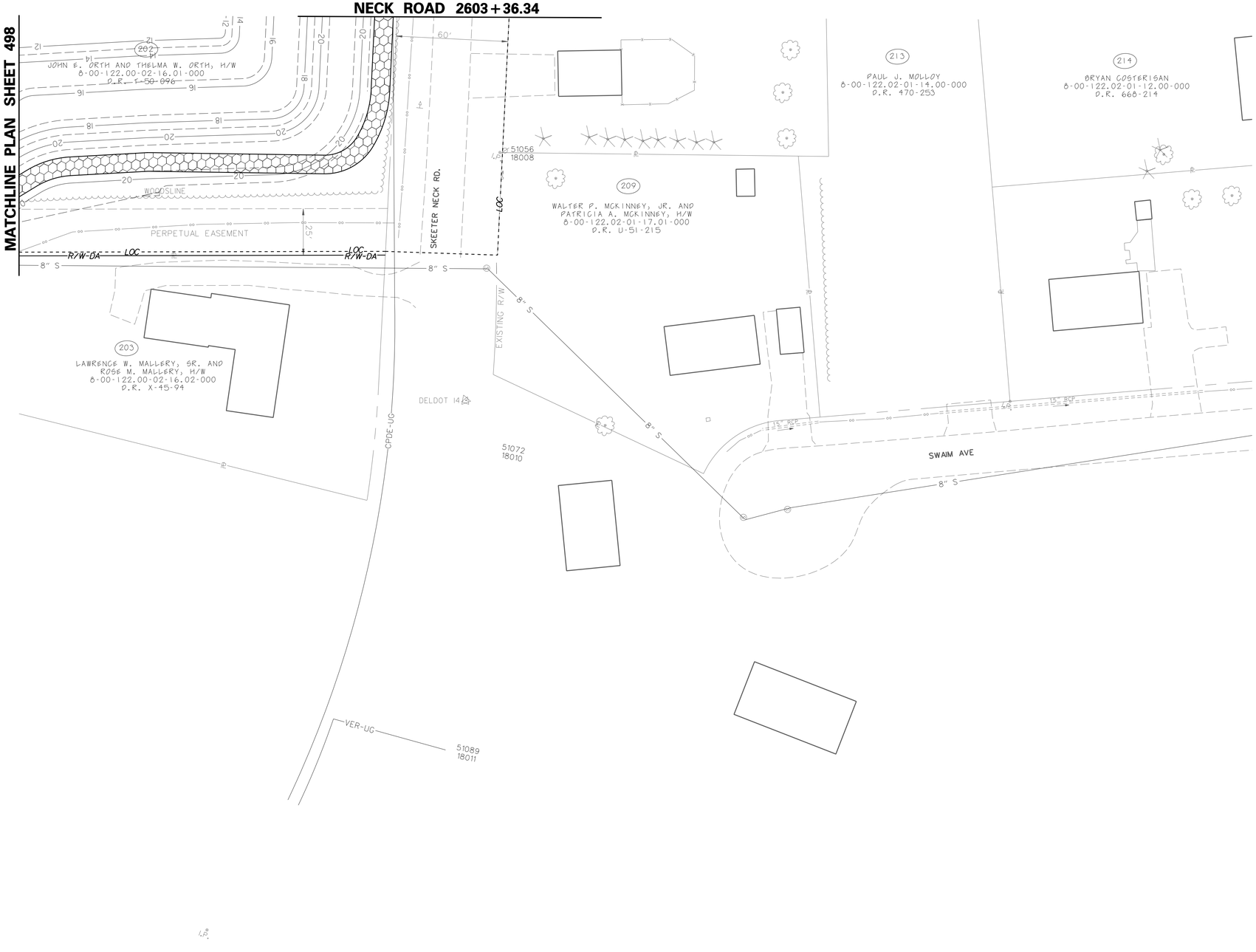
MATCHLINE SKEETER NECK ROAD 2603+36.34

MATCHLINE PLAN SHEET 498



N

NO PROPOSED WORK TO BE DONE ON THIS SHEET

ITMS LEGEND

JW 11	PROPOSED JUNCTION WELL TYPE 11
JW 14	PROPOSED JUNCTION WELL TYPE 14
JW 7	PROPOSED JUNCTION WELL TYPE 7
CO X	PROPOSED CONDUIT RUN & IDENTIFIER (* OF CONDUIT RUN)
	PROPOSED RADAR DETECTION
	EXISTING RADAR DETECTION
	6'x6' LOOP DETECTOR
	EXISTING SIGNAL CABINET (TYPE P)
	PROPOSED SIGNAL CABINET (TYPE P)
	EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
	PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
	PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
	EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
ATR	AUTOMATIC TRAFFIC RECORDER (ATR)
ITMS-CON	4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
	VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
	PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
	EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET
POL MH×AL ORCS

- STATION, OFFSET
- CIRCUIT NUMBER
- POLE HIEGHT AND ARM LENGTH
- POLE NUMBER

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	T200412202	BRIDGE NO.	-
COUNTY	KENT	DESIGNED BY:	SFP
		CHECKED BY:	WFC

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO.	499
TOTAL SHTS.	641

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CONDUIT RUN SCHEDULE

CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE
F30	1	4"	210'	T	48 CNT SINGLE MODE. 144 CNT SINGLE MODE
F31	1	4"	358'	T	48 CNT SM, 144 CNT SM
F32	1	4"	138'	T	48 CNT SM, 144 CNT SM

LEGEND
B - BORE T - TRENCH O - OPEN CUT

NOTE: ALL 4" CONDUIT TO BE MULTI-DUCT WITH FOUR ONE INCH INNER DUCTS.
THE 1" INNER DUCTS SHALL BE SUPPLIED BY THE FIBER CONTRACTOR.

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	UTILITY EL.	COVER	O.D. & MATERIAL
72	KENT CO.	1001+62.07	-24.71'	8.53'	5.37'	8" PVC
73	VERIZON	1101+36.90	11.28'	9.24'	2.43'	1.25" D.B.
73	KENT CO.	1101+36.90	11.28'	8.13'	3.54'	4" PVC
74	VERIZON	1101+10.31	12.39'	8.75'	2.66'	1.25" D.B.
74	KENT CO.	1101+10.31	12.39'	8.34'	3.07'	4" PVC
75	KENT CO.	216+55.98	-27.87'	6.49'	6.29'	METAL CASING
76	KENT CO.	216+47.49	7.92'	6.09'	6.76'	10" IRON
77	VERIZON	217+06.54	10.38'	8.01'	4.53'	3" D.B.
128	ARTESIAN	1211+11.90	-113.02	13.48'	6.94'	METAL(SIZE UNK)
129	ARTESIAN	1211+13.71	-96.61	13.39'	9.06'	METAL(SIZE UNK)
130	ARTESIAN	1211+17.01	-69.20'	12.88'	13.36'	METAL(SIZE UNK)
131	VERIZON	1210+60.16	40.99	12.29'	6.05'	3" D.B.
132	ARTESIAN	1211+17.91	150.99'	10.40'	3.27'	12" METAL
133	ARTESIAN	1211+16.50	200.89'	10.66'	3.51'	12" METAL
139	VERIZON	1212+16.92	-13.15'	11.75'	2.66'	1" BLACK

ITMS LEGEND

- JW 11 — PROPOSED JUNCTION WELL TYPE 11
- JW 14 — PROPOSED JUNCTION WELL TYPE 14
- JW 7 — PROPOSED JUNCTION WELL TYPE 7
- CO X — PROPOSED CONDUIT RUN & IDENTIFIER (# OF CONDUIT RUN)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- ATR — AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
— —	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION
STATION,OFFSET — STATION, OFFSET
POL MH×AL ORCS — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

MATCHLINE NORTHBOUND SR1 STA. 212+00

MATCHLINE NORTHBOUND SR1 STA. 219+00

MATCHLINE MULBERRIE POINT ROAD 1102+50

4/17/2015
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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

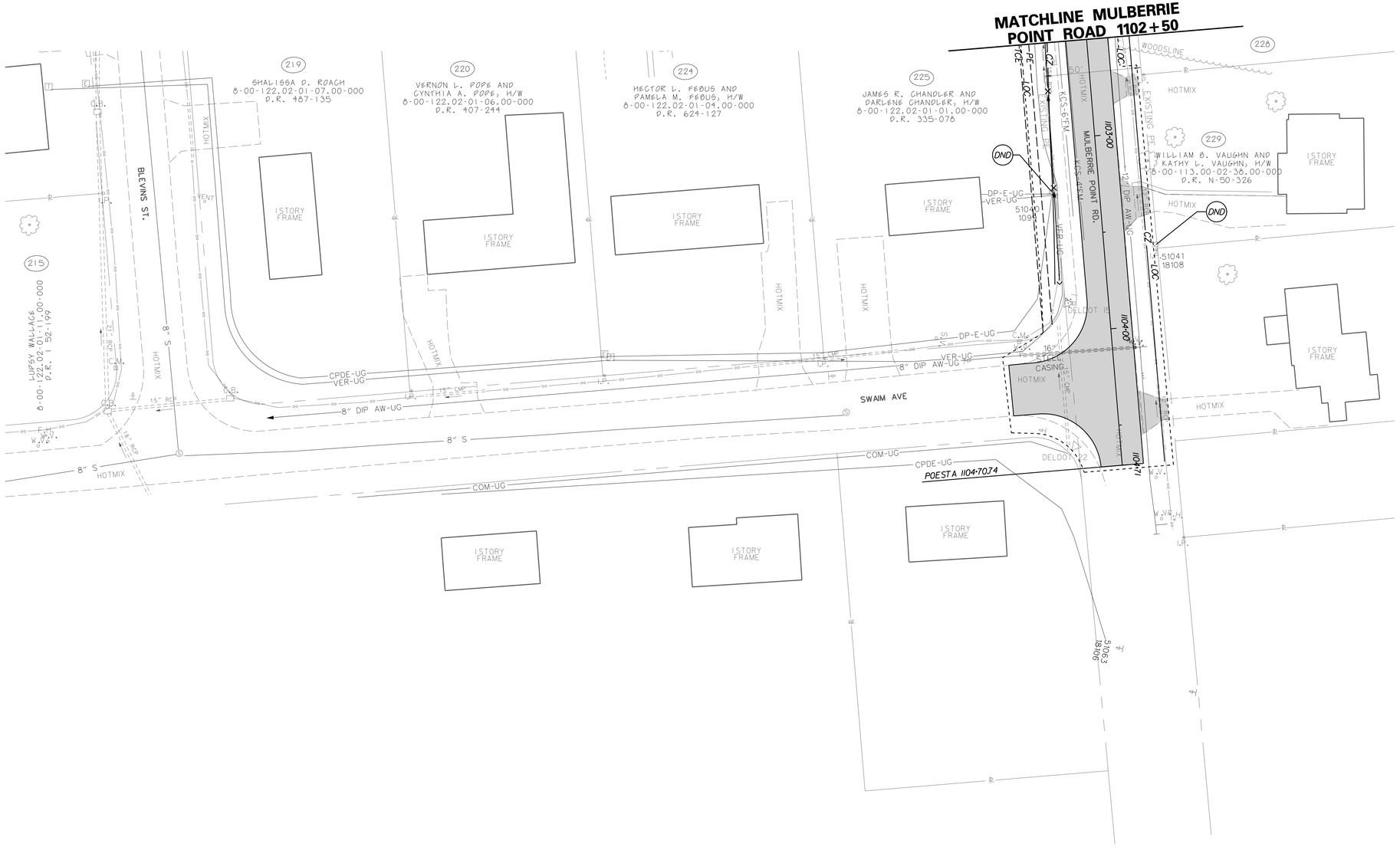
SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	T200412202
COUNTY	KENT

BRIDGE NO.	-
DESIGNED BY:	SFP
CHECKED BY:	WFC

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO.	500
TOTAL SHTS.	641



NO PROPOSED WORK TO BE DONE ON THIS SHEET

ITMS LEGEND

JW 11	PROPOSED JUNCTION WELL TYPE 11
JW 14	PROPOSED JUNCTION WELL TYPE 14
JW 7	PROPOSED JUNCTION WELL TYPE 7
CO X	PROPOSED CONDUIT RUN & IDENTIFIER (* OF CONDUIT RUN)
	PROPOSED RADAR DETECTION
	EXISTING RADAR DETECTION
	6'x6' LOOP DETECTOR
	EXISTING SIGNAL CABINET (TYPE P)
	PROPOSED SIGNAL CABINET (TYPE P)
	EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
	PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
	PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
	EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
ATR	AUTOMATIC TRAFFIC RECORDER (ATR)
ITMS-CON	4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
	VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
	PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
	EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
— —	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET — STATION, OFFSET
POL MH×AL ORC — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO.
501
TOTAL SHTS.
641

12/30/2014
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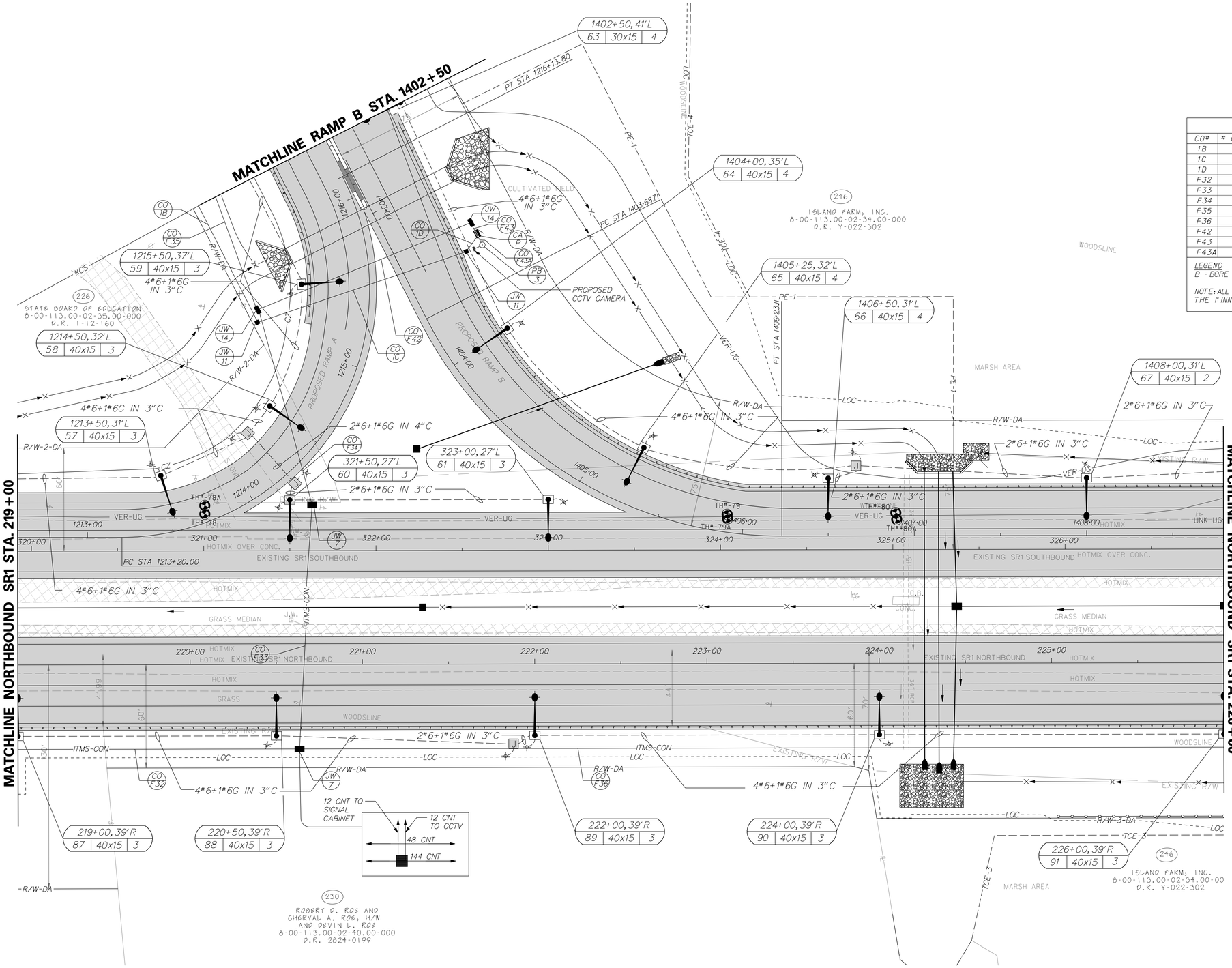

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	UTILITY EL.	COVER	O.D. & MATERIAL
78	VERIZON	321+00.67	-21.40'	9.63'	2.84'	0.75" D.B.
78A	VERIZON	321+00.66	-26.29'	10.09'	2.41'	1" D.B.
79	VERIZON	324+03.88	-20.60'	10.35'	2.09'	1" D.B.
79A	VERIZON	324+04.07	-18.16'	11.24'	1.40'	0.75" D.B.
80	VERIZON	325+01.75	-21.38'	10.48'	1.76'	0.75" D.B.
80A	VERIZON	325+02.27	-17.46'	10.40'	2.34'	1" D.B.

CONDUIT RUN SCHEDULE

CO#	# OF CONDUITS	SIZE	LENGTH	LENGTH	AMOUNT AND TYPE OF CABLE/WIRE
1B	1	2"	75'	T	(1) 2/#8 U.F. w/GROUND CABLE
1C	1	2"	130'	T	(1) 2/#8 U.F. w/GROUND CABLE
1D	1	2"	10'	T	(1) 2/#8 U.F. w/GROUND CABLE
F32	1	4"	165'	T	48 CNT SINGLE MODE, 144 CNT SINGLE MODE
F33	1	4"	140'	B	(2) 12 CNT SM
F34	1	4"	115'	T	(2) 12 CNT SM
F35	1	4"	70'	T	12 CNT SM
F36	1	4"	535'	T	48 CNT SM, 144 CNT SM
F42	1	4"	130'	T	12 CNT SM
F43	1	4"	5'	T	12 CNT SM
F43A	1	3"	5'	T	12 CNT SM

LEGEND
B - BORE T - TRENCH O - OPEN CUT

NOTE: ALL 4" CONDUIT TO BE MULTI-DUCT WITH FOUR ONE INCH INNER DUCTS. THE 1" INNER DUCTS SHALL BE SUPPLIED BY THE FIBER CONTRACTOR.

ITMS NOTE:

1. POWER FOR CCTV FROM DELMARVA ELECTRIC WELL AT STATION 623+27.00 OFFSET 130 FT RIGHT.

ITMS LEGEND

- PROPOSED JUNCTION WELL TYPE 11
- PROPOSED JUNCTION WELL TYPE 14
- PROPOSED JUNCTION WELL TYPE 7
- PROPOSED CONDUIT RUN & IDENTIFIER (# OF CONDUIT RUN)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON: 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET — STATION, OFFSET
POL MH x AL ORES — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	T200412202
COUNTY	KENT
BRIDGE NO.	-
DESIGNED BY:	SFP
CHECKED BY:	WFC

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO. 502
TOTAL SHTS. 641

4/17/2015
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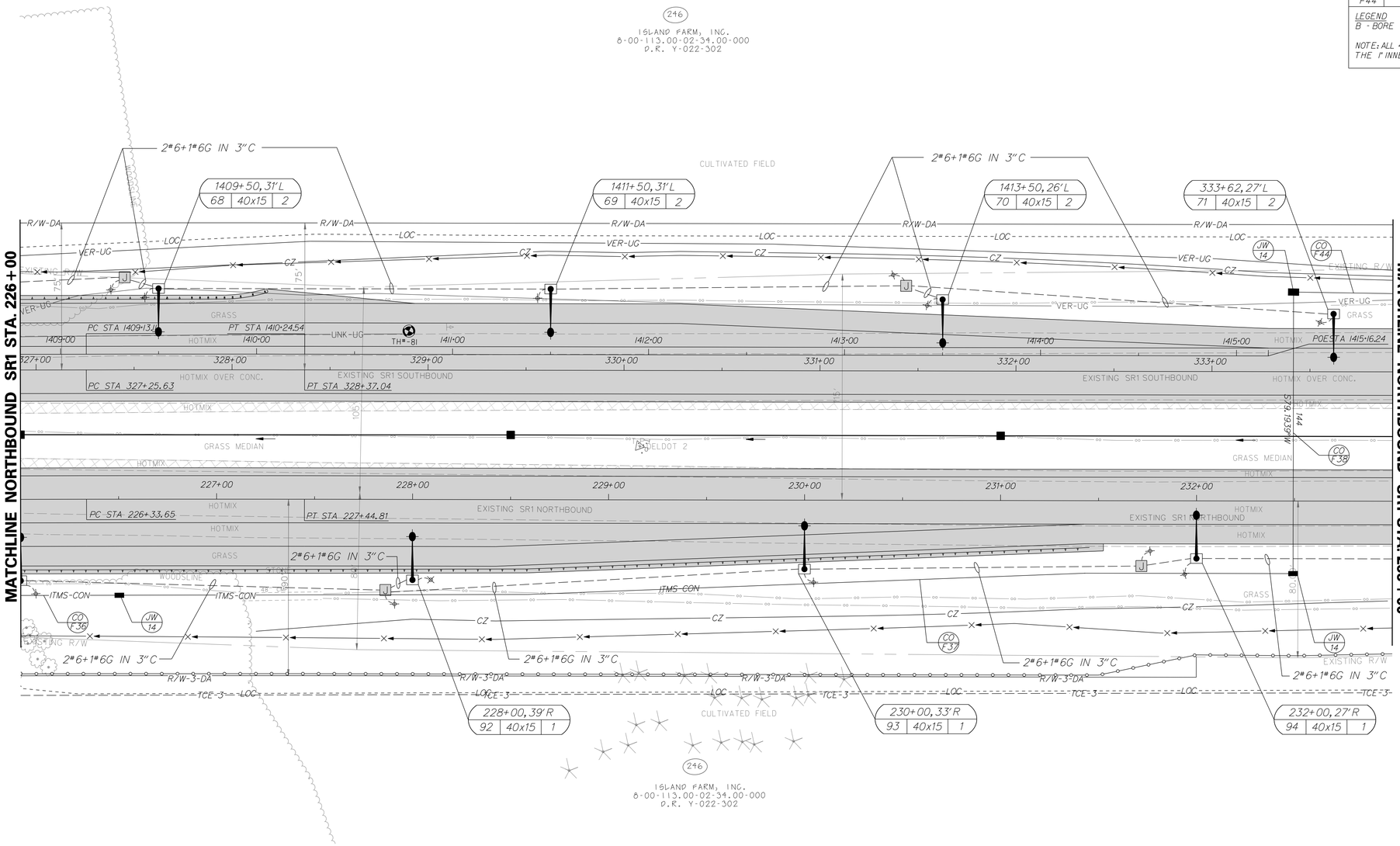

CONDUIT RUN SCHEDULE

CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE
F36	1	4"	50'	T	48 CNT SINGLE MODE, 144 CNT SINGLE MODE
F37	1	4"	595'	T	48 CNT SM, 144 CNT SM
F38	1	4"	145'	B	48 CNT SM, 144 CNT SM
F44	1	4"	50'	T	48 CNT SM, 144 CNT SM

LEGEND
B - BORE T - TRENCH O - OPEN CUT

NOTE: ALL 4" CONDUIT TO BE MULTI-DUCT WITH FOUR ONE INCH INNER DUCTS.
THE 1" INNER DUCTS SHALL BE SUPPLIED BY THE FIBER CONTRACTOR.

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	UTILITY EL.	COVER	O.D. & MATERIAL
81	VERIZON	328+90.21	-19.90'	12.38'	2.26'	1" D.B.

ITMS LEGEND

- JW 11 — PROPOSED JUNCTION WELL TYPE 11
- JW 14 — PROPOSED JUNCTION WELL TYPE 14
- JW 7 — PROPOSED JUNCTION WELL TYPE 7
- CO X — PROPOSED CONDUIT RUN & IDENTIFIER (# OF CONDUIT RUN)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- ATR — AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
— —	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET — STATION, OFFSET
POL MH×AL CRCS — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO.
503
TOTAL SHTS.
641

4/16/2015
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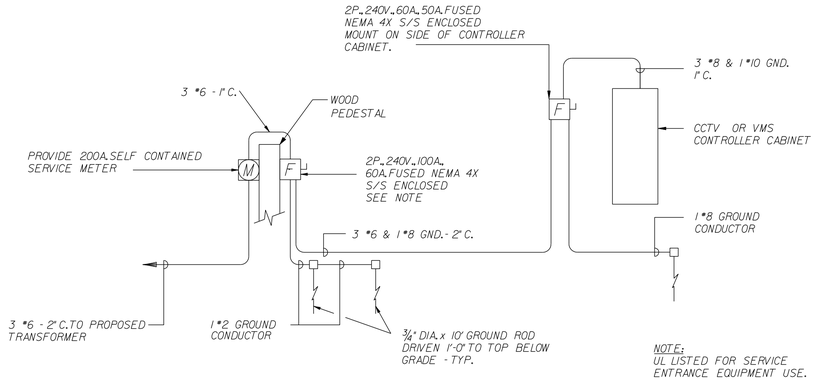

STA.364+22 VMS

ELECTRICAL SERVICE SINGLE LINE DIAGRAM

CONSTRUCTION NOTES

1. DELMARVA SHALL PROVIDE UTILITY SERVICE FOR ITMS DEVICES.
2. INSTALL WOOD PEDESTAL WITH DISCONNECT AND METER SOCKET IN ACCORDANCE WITH DELDOT AND DELMARVA REQUIREMENTS, APPROXIMATELY 10 FT OF UTILITY SOURCE POLE. INSTALL ONE 2" GALVANIZED STEEL CONDUIT WITH THREE #6 AND NE #8 GND CABLES FOR POWER BETWEEN UTILITY SOURCE POLE AND WOOD PEDESTAL LOCATION. TRENCHED. EXTEND THIS POWER CONDUIT 3 FT ABOVE GRADE. ADJACENT TO UTILITY SOURCE POLE. INSTALL 33 FT RISER FROM CONDUIT TERMINATION POINT UP UTILITY POLE. WITH WEAHTERHEAD. COIL APPROXIMATELY 16 FT OF POWER CABLE AT WEATHERHEAD TO FACILITATE POWER COMPANY CONNECTION TO POWER CABLES. INSTALL ONE 2" GALVANIZED STEEL WITH THREE #6 AND ONE #8 GND CABLES FOR POWER BETWEEN WOOD PEDESTAL AND PROPOSED ELECTRICAL JUNCTION WELL LOCATION. TRENCHED.
3. INSTALL ONE 3" PVC SCHEDULE 80 CONDUIT WITH 12 CNT FIBER CABLE FOR COMMUNICATION SERVICE BETWEEN DEVICE AND PROPOSED JUNCTION WELL LOCATION. TRENCHED. EXTEND CONDUIT 3 FT ABOVE GRADE. ADJACENT TO UTILITY SOURCE POLE. CONNECT FIBER TO INTERFACE WITHIN JUNCTION WELL.
4. GUARDRAIL SHALL BE INSTALLED WITH END TREATMENTS PER GUARDRAIL SCHEDULE.

N

GUARDRAIL SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
57	END ANCHORAGE	363+84.50	-24.00	14.00'
58	GALV. STEEL BEAM GUARDRAIL, TYPE 1	363+98.50	-24.00	212.50'
59	END TREATMENT ATTENUATOR, TYPE 2	366+11.00	A	50.00'

A = OFFSET ATTENUATORS AS PER STANDARD DETAILS

JUNCTION WELL SCHEDULE

STATION	JUNCTION WELL	OFFSET
238+35 (NB)	TYPE 7	37.00' RT.
244+35 (NB)	TYPE 4	37.00' RT.
250+35 (NB)	TYPE 4	37.00' RT.
256+35 (NB)	TYPE 7	37.00' RT.
262+35 (NB)	TYPE 4	37.00' RT.
363+27 (SB)	TYPE 4	33.00' RT.
363+91 (SB)	TYPE 7	33.00' RT.

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	UTILITY EL.	COVER	O.D. & MATERIAL
82	VERIZON	335+55.25	-44.60'	12.50'	2.97'	0.75" D.B.
82A	VERIZON	335+55.84	-22.00'	15.07'	1.98'	MULTIDUCT 4" PVC

CONDUIT RUN SCHEDULE

CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE
F44	1	4"	550'	T	48 CNT SM, 144 CNT SM
F45	1	4"	600'	T	48 CNT SM, 144 CNT SM
F46	1	4"	600'	T	48 CNT SM, 144 CNT SM
F47	1	4"	600'	T	48 CNT SM, 144 CNT SM
F48	1	4"	300'	T	48 CNT SM, 144 CNT SM
F49	1	4"	295'	T	48 CNT SM, 144 CNT SM
F50	1	4"	85'	T	48 CNT SM, 144 CNT SM
F51	1	3"	20'	T	12 CNT SM
F51A	1	4"	85'	T	12 CNT SM
F51B	1	3"	20'	T	RADAR CABLE

LEGEND
B - BORE T - TRENCH O - OPEN CUT

NOTE: ALL 4" CONDUIT TO BE MULTI-DUCT WITH FOUR ONE INCH INNER DUCTS. THE 1" INNER DUCTS SHALL BE SUPPLIED BY THE FIBER CONTRACTOR.

(246)
ISLAND FARM, INC.
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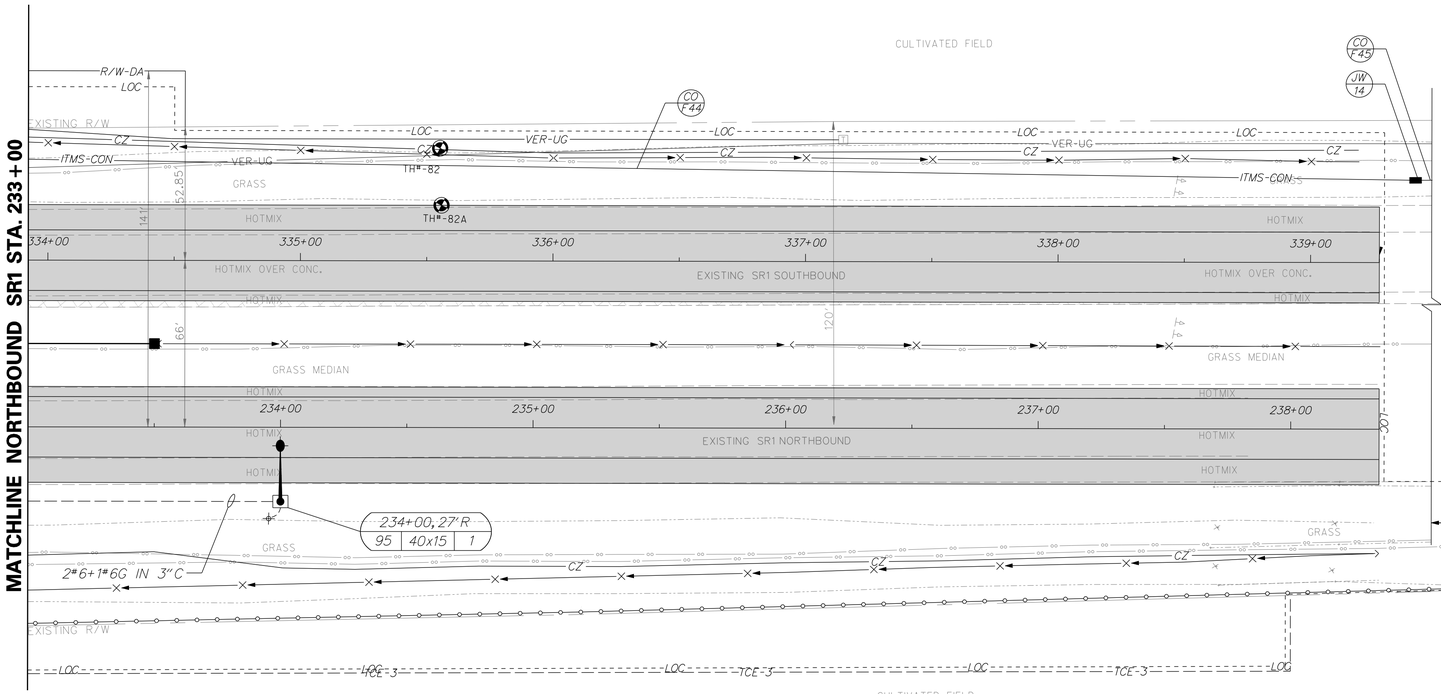
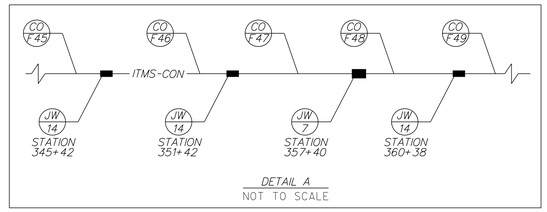
D.R. Y-022-302



(246)
ISLAND FARM, INC.
8-00-113.00-02-34.00-000
D.R. Y-022-302



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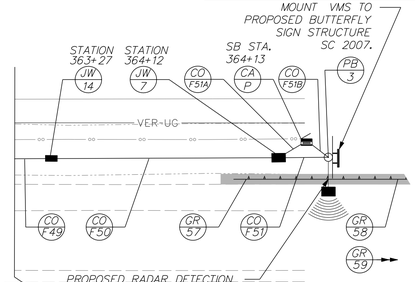

ITMS LEGEND

- JW 11 — PROPOSED JUNCTION WELL TYPE 11
- JW 14 — PROPOSED JUNCTION WELL TYPE 14
- JW 7 — PROPOSED JUNCTION WELL TYPE 7
- CO X — PROPOSED CONDUIT RUN & IDENTIFIER (# OF CONDUIT RUN)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- ATR — AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
— —	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET — STATION, OFFSET
POL MH x AL ORS — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

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DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE
0 30 60 90
FEET

SR1, LITTLE HEAVEN
GRADE SEPARATED INTERSECTION

CONTRACT	T200412202
COUNTY	KENT
BRIDGE NO.	-
DESIGNED BY:	SFP
CHECKED BY:	WFC

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO.	504
TOTAL SHTS.	641

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	UTILITY EL.	COVER	O.D. & MATERIAL
83	VERIZON	614+83.06	-33.21'	10.93'	5.40'	MULTIDUCT 4" PVC
84	VERIZON	614+89.99	-16.55'	14.66'	2.74'	2.5" D.B.
84A	KENT CO.	614+89.69	-19.30'	10.45'	6.95'	36" CONCRETE
85	VERIZON	616+66.24	-26.47'	13.23'	4.85'	MULTIDUCT 4" PVC
86	VERIZON	617+40.77	-23.08'	12.96'	4.04'	MULTIDUCT 4" PVC

ITMS LEGEND

- JW 11 — PROPOSED JUNCTION WELL TYPE 11
- JW 14 — PROPOSED JUNCTION WELL TYPE 14
- JW 7 — PROPOSED JUNCTION WELL TYPE 7
- CO X — PROPOSED CONDUIT RUN & IDENTIFIER (* OF CONDUIT RUN)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- ATR — AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
— —	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET — STATION, OFFSET
POL MH×AL ORES — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE
0 30 60 90
FEET

SR1, LITTLE HEAVEN
GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO.
505
TOTAL SHTS.
641

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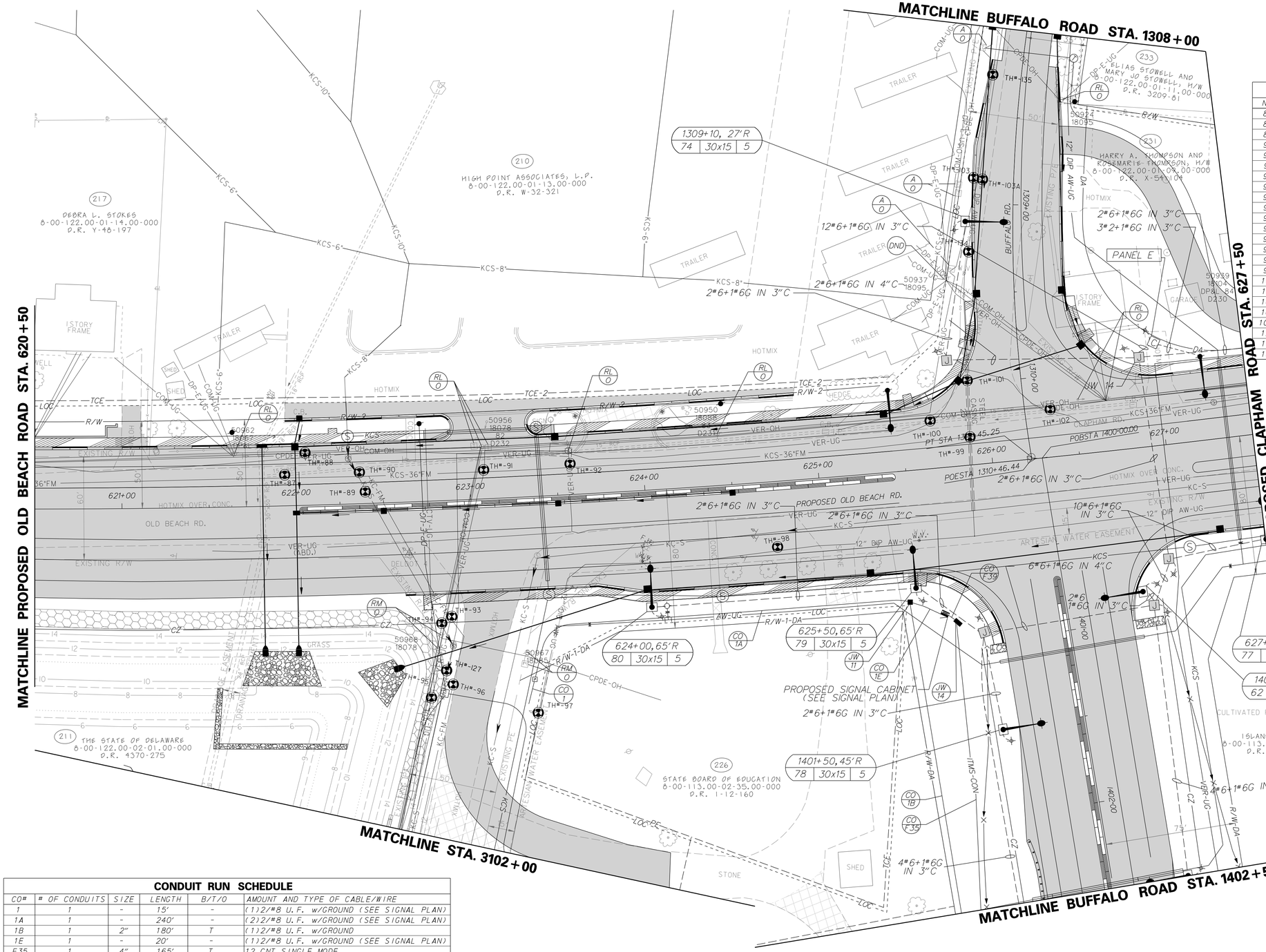

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	UTILITY EL.	COVER	O.D. & MATERIAL
87	KENT CO.	621+93.72	-17.81'	13.47'	4.45'	36" CONCRETE
88	VERIZON	622+05.75	-30.09'	15.23'	2.57'	(6) 4" PVC
89	KENT CO.	622+39.74	-6.78'	14.05'	4.55'	10" IRON
90	KENT CO.	622+36.70	-18.04'	13.86'	4.36'	12" CLAY
90	KENT CO.	622+36.70	-18.04'	12.03'	6.19'	36" CONCRETE
91	VERIZON	623+08.17	-16.60'	15.05'	3.54'	3" D.B.
92	VERIZON	623+57.97	-17.68'	14.52'	4.06'	(6) 4" MULTIDUCT
93	VERIZON	622+86.42	66.64'	12.48'	3.44'	3" D.B.
93	KENT CO.	622+86.42	66.64'	11.60'	4.32'	10" METAL
94	KENT CO.	622+80.58	70.18'	13.44'	2.25'	10" IRON BELL
95	VERIZON	622+73.10	112.63'	11.55'	2.47'	3" D.B.
96	KENT CO.	622+83.98	111.08'	10.92'	3.81'	10" METAL
97	ARTESIAN	623+32.63	124.00'	12.27'	3.89'	12" D.I.
98	ARTESIAN	624+73.48	37.53'	17.20'	3.68'	10" D.I.
99	KENT CO.	625+88.47	-16.07'	14.80'	4.69'	36" CONCRETE
99	ARTESIAN	625+88.47	-16.07'	10.78'	8.71'	D.I.
100	VERIZON	625+66.48	-27.43'	17.59'	1.75'	3" D.B.
101	ARTESIAN	625+89.94	-48.49'	10.10'	9.74'	D.I.
102	VERIZON	626+35.96	-27.38'	16.41'	3.37'	3" D.B.
103	VERIZON	1308+85.33	23.00'	19.01'	2.85'	1.5" D.B.
103A	VERIZON	1308+86.01	17.87'	20.25'	1.81'	0.75 D.B.
127	KENT CO.	622+82.21	97.41'	14.17'	6.08'	18" TERRA COTTA
134	ARTESIAN	1309+26.46	25.38	21.42'	5.08'	12" METAL
135	ARTESIAN	1308+26.96	16.28'	22.78'	4.82'	12" METAL

ITMS LEGEND

- JW 11 — PROPOSED JUNCTION WELL TYPE 11
- JW 14 — PROPOSED JUNCTION WELL TYPE 14
- JW 7 — PROPOSED JUNCTION WELL TYPE 7
- CO X — PROPOSED CONDUIT RUN & IDENTIFIER (* OF CONDUIT RUN)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- ATR — AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

CONDUIT RUN SCHEDULE

CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE
1	1	-	15'	-	(1)2/#8 U.F. w/GROUND (SEE SIGNAL PLAN)
1A	1	-	240'	-	(2)2/#8 U.F. w/GROUND (SEE SIGNAL PLAN)
1B	1	2"	180'	T	(1)2/#8 U.F. w/GROUND
1E	1	-	20'	-	(1)2/#8 U.F. w/GROUND (SEE SIGNAL PLAN)
F35	1	4"	165'	T	12 CNT SINGLE MODE
F39	1	4"	5'	T	12 CNT SINGLE MODE

LEGEND
B - BORE T - TRENCH O - OPEN CUT

NOTE: ALL 4" CONDUIT TO BE MULTI-DUCT WITH FOUR ONE INCH INNER DUCTS. THE 1" INNER DUCTS SHALL BE SUPPLIED BY THE FIBER CONTRACTOR.

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
— —	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET — STATION, OFFSET
POL MH×AL ORCS — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO. 506
TOTAL SHTS. 641

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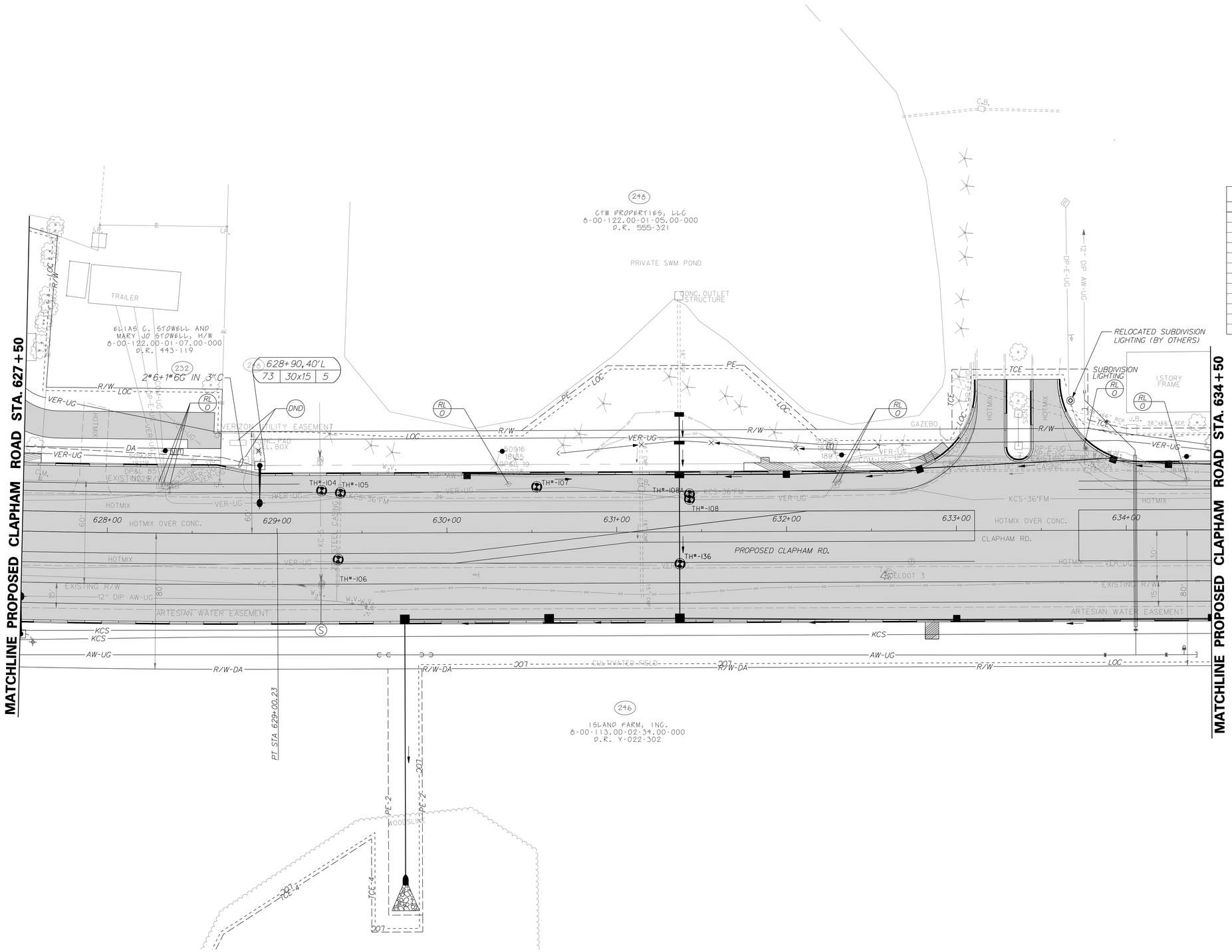


UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	UTILITY EL.	COVER	O.D. & MATERIAL
104	VERIZON	629+26.32	-25.08'	16.43'	3.71'	2.5" D.B.
104	KENT CO.	629+26.32	-25.08'	14.22'	5.92'	36" CONCRETE
104	KENT CO.	629+26.32	-25.08'	9.50'	10.64'	8" CONCRETE
105	VERIZON	629+37.36	-23.71'	16.42'	3.64'	3" D.B.
105	KENT CO.	629+37.36	-23.71'	14.21'	5.85'	36" F.M.
105	ARTESIAN	629+37.36	-23.71'	10.03'	10.03'	12" D.I.
106	VERIZON	629+35.92	15.53'	17.64'	2.51'	1.25" D.B.
106	ARTESIAN	629+35.92	15.53'	11.19'	8.96'	12" D.I.
107	VERIZON	630+52.95	-26.82'	16.78'	3.05'	2.5" D.B.
108	VERIZON	631+42.90	-19.27'	17.15'	2.86'	2" D.B.
108A	KENT CO.	631+42.85	-22.18'	13.81'	6.18'	36" CONCRETE
136	VERIZON	631+37.16	18.81'	20.24'	2.47'	1.25" D.B.

ITMS LEGEND

- JW 11 — PROPOSED JUNCTION WELL TYPE 11
- JW 14 — PROPOSED JUNCTION WELL TYPE 14
- JW 7 — PROPOSED JUNCTION WELL TYPE 7
- CO X — PROPOSED CONDUIT RUN & IDENTIFIER (* OF CONDUIT RUN)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- ATR — AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W. COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
— —	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET | POL | MH×AL | CRCT

STATION, OFFSET
CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

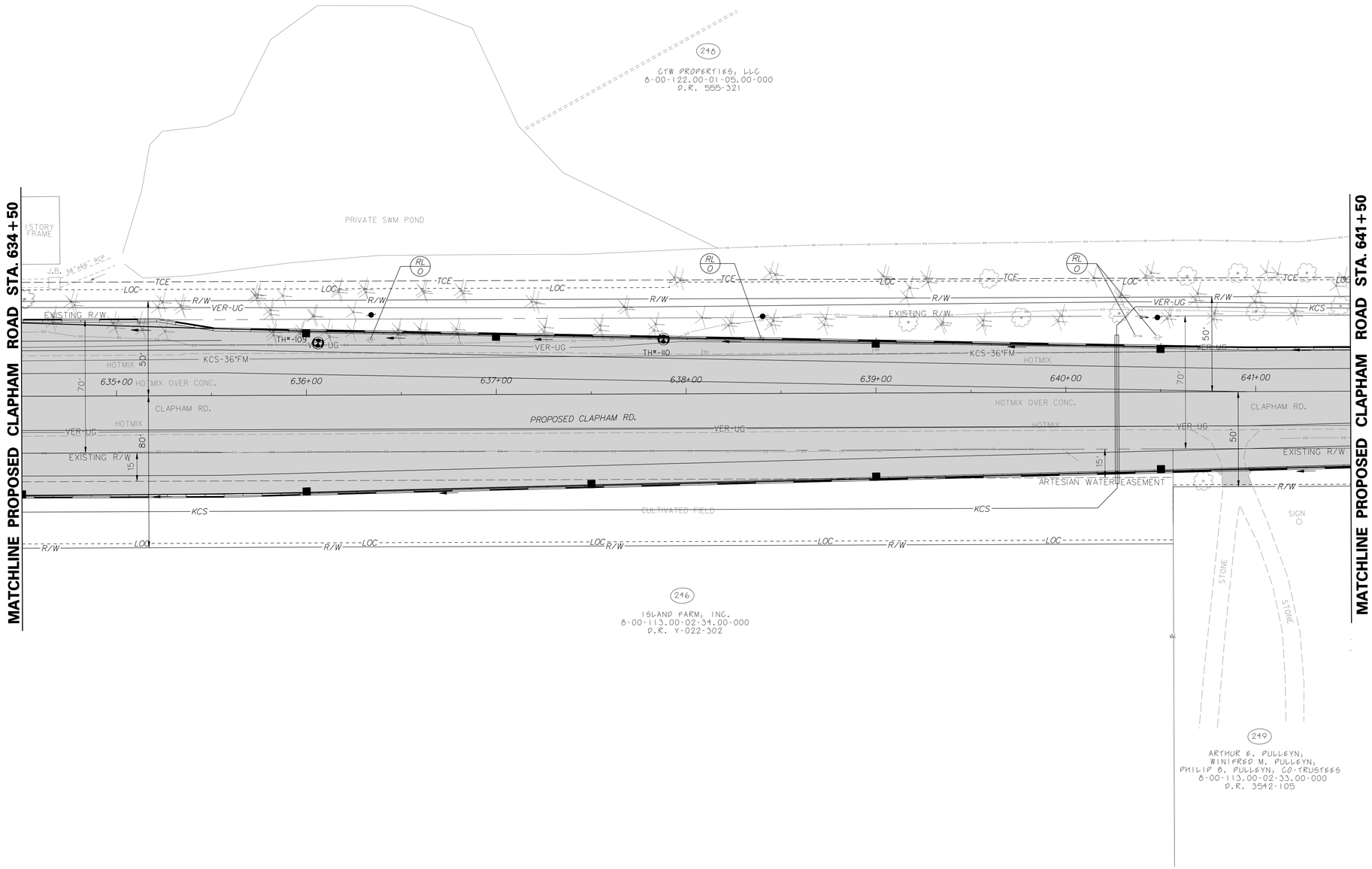
SCALE
0 30 60 90
FEET

SR1, LITTLE HEAVEN
GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO.
507
TOTAL SHTS.
641



UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	UTILITY EL.	COVER	O.D. & MATERIAL
109	VERIZON	636+06.23	-27.47'	18.19'	2.33'	2.5" D.B.
110	VERIZON	637+88.26	-28.85'	17.43'	2.26'	2.5" D.B.

ITMS LEGEND

- JW 11 — PROPOSED JUNCTION WELL TYPE 11
- JW 14 — PROPOSED JUNCTION WELL TYPE 14
- JW 7 — PROPOSED JUNCTION WELL TYPE 7
- CO X — PROPOSED CONDUIT RUN & IDENTIFIER (# OF CONDUIT RUN)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- ATR — AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
— —	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
⏚	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET — STATION, OFFSET
POL MH×AL ORC — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	T200412202
COUNTY	KENT

BRIDGE NO.	-
DESIGNED BY:	SFP
CHECKED BY:	WFC

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO.	508
TOTAL SHTS.	641

4/16/2025
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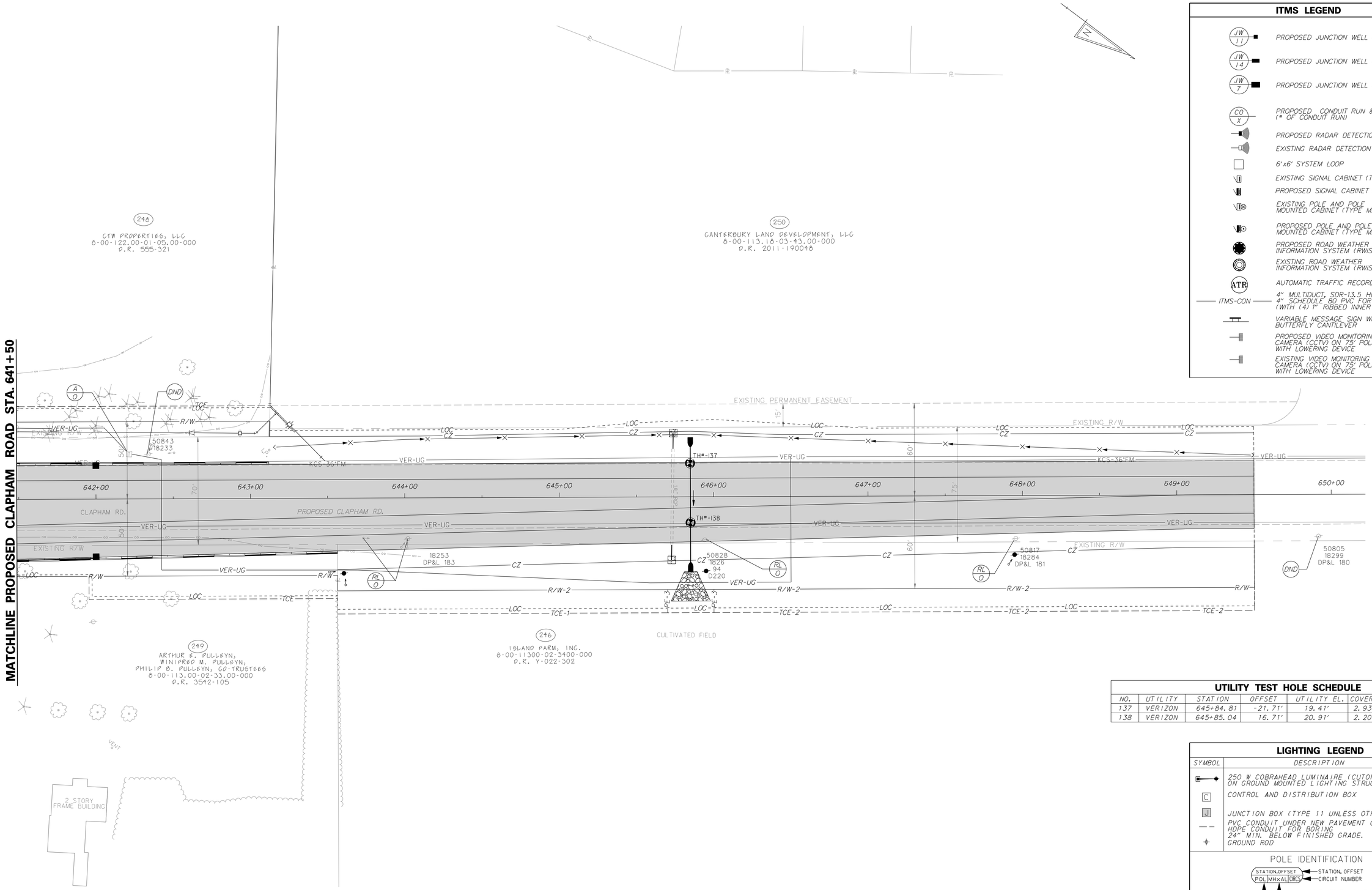

ITMS LEGEND

- JW 11 — PROPOSED JUNCTION WELL TYPE 11
- JW 14 — PROPOSED JUNCTION WELL TYPE 14
- JW 7 — PROPOSED JUNCTION WELL TYPE 7
- CO X — PROPOSED CONDUIT RUN & IDENTIFIER (# OF CONDUIT RUN)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' SYSTEM LOOP
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- ATR — AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	UTILITY EL.	COVER	O.D. & MATERIAL
137	VERIZON	645+84.81	-21.71'	19.41'	2.93'	3" D.B.
138	VERIZON	645+85.04	16.71'	20.91'	2.20'	1.25" D.B.

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET — STATION, OFFSET
POL MH×AL CIRCS — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

4/16/2015
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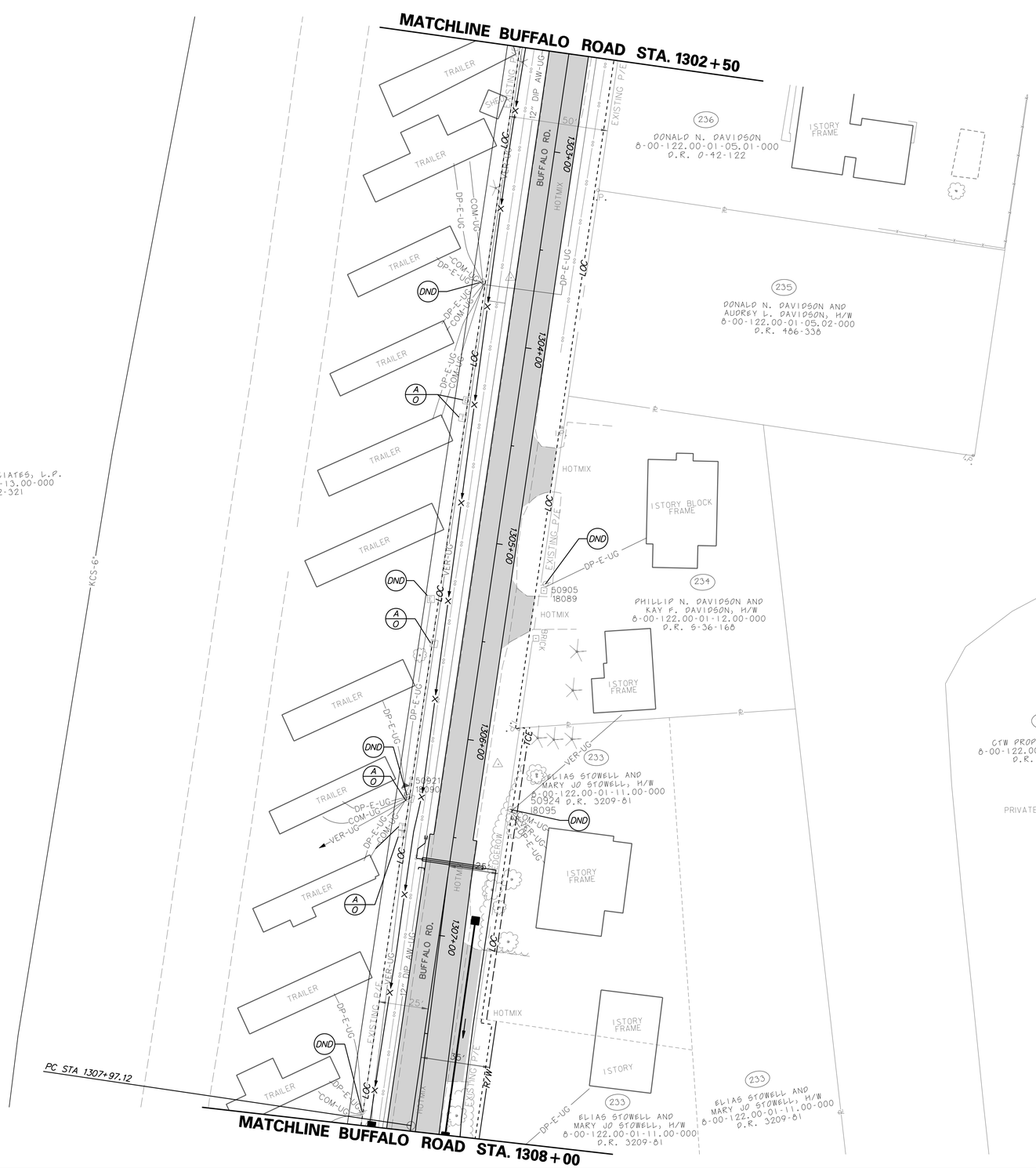
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION	CONTRACT T200412202	BRIDGE NO. -	UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS	SHEET NO. 509
				COUNTY KENT	DESIGNED BY: SFP		TOTAL SHTS. 641
					CHECKED BY: WFC		



ITMS LEGEND

- JW 11 — PROPOSED JUNCTION WELL TYPE 11
- JW 14 — PROPOSED JUNCTION WELL TYPE 14
- JW 7 — PROPOSED JUNCTION WELL TYPE 7
- CO X — PROPOSED CONDUIT RUN & IDENTIFIER (* OF CONDUIT RUN)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- ATR — AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
— —	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET POL MH×AL ORCS — STATION, OFFSET; CIRCUIT NUMBER; POLE HEIGHT AND ARM LENGTH; POLE NUMBER

DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, LITTLE HEAVEN
GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO.
510
TOTAL SHTS.
641

12/30/2014
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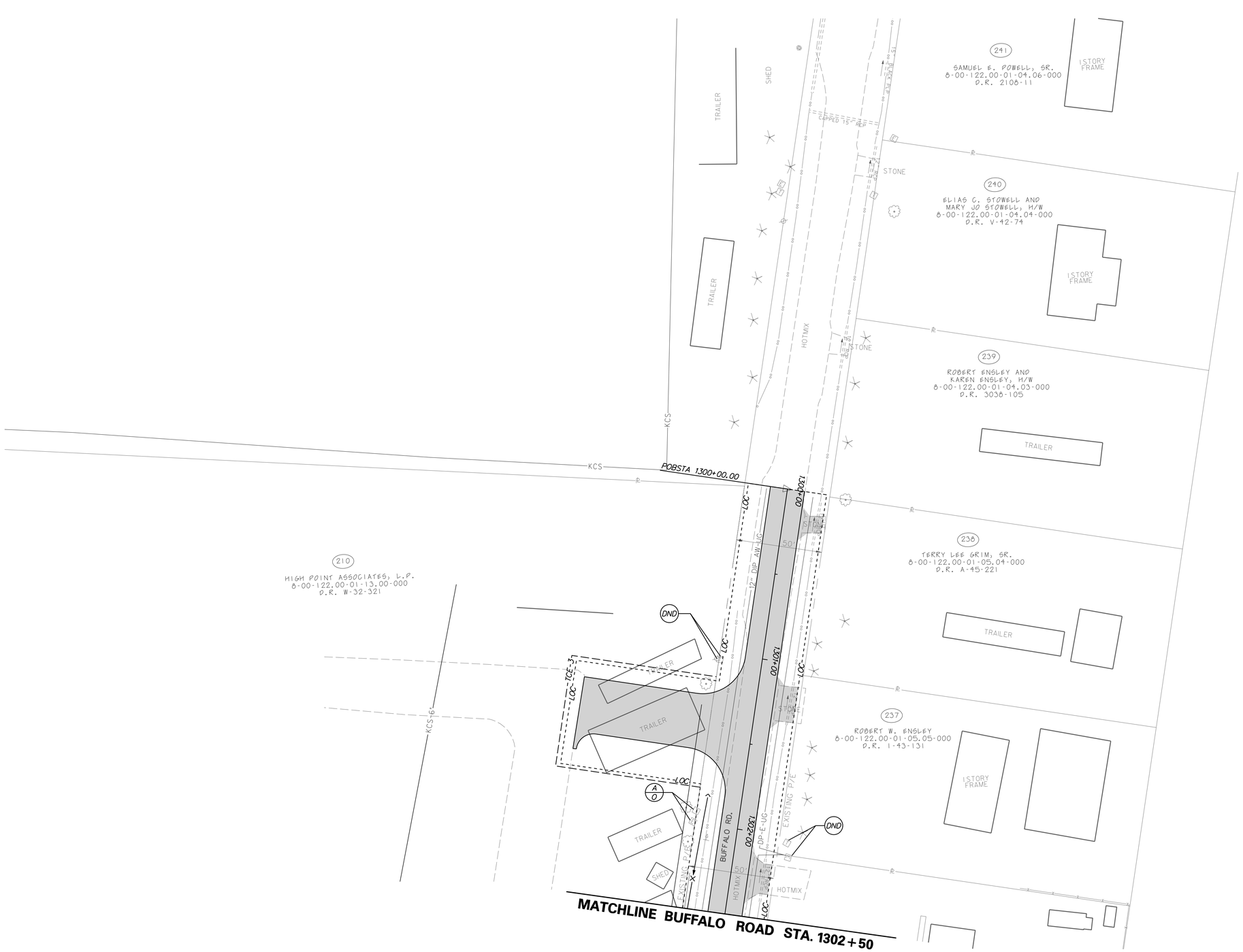

ITMS LEGEND

- PROPOSED JUNCTION WELL TYPE 11 (JW 11)
- PROPOSED JUNCTION WELL TYPE 14 (JW 14)
- PROPOSED JUNCTION WELL TYPE 7 (JW 7)
- PROPOSED CONDUIT RUN & IDENTIFIER (* OF CONDUIT RUN) (CO X)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
– –	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET — STATION, OFFSET
POL MH×AL CRCS — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	–
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO.
511
TOTAL SHTS.
641

12/30/2014
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ITMS LEGEND
PROPOSED JUNCTION WELL TYPE 11
PROPOSED JUNCTION WELL TYPE 14
PROPOSED JUNCTION WELL TYPE 7
PROPOSED CONDUIT RUN & IDENTIFIER (# OF CONDUIT RUN)
PROPOSED RADAR DETECTION
EXISTING RADAR DETECTION
6'x6' LOOP DETECTOR
EXISTING SIGNAL CABINET (TYPE P)
PROPOSED SIGNAL CABINET (TYPE P)
EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
ATR — AUTOMATIC TRAFFIC RECORDER (ATR)
ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION, OFFSET — STATION, OFFSET
POL | MHxAL | CIRCS — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

12/30/2014
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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

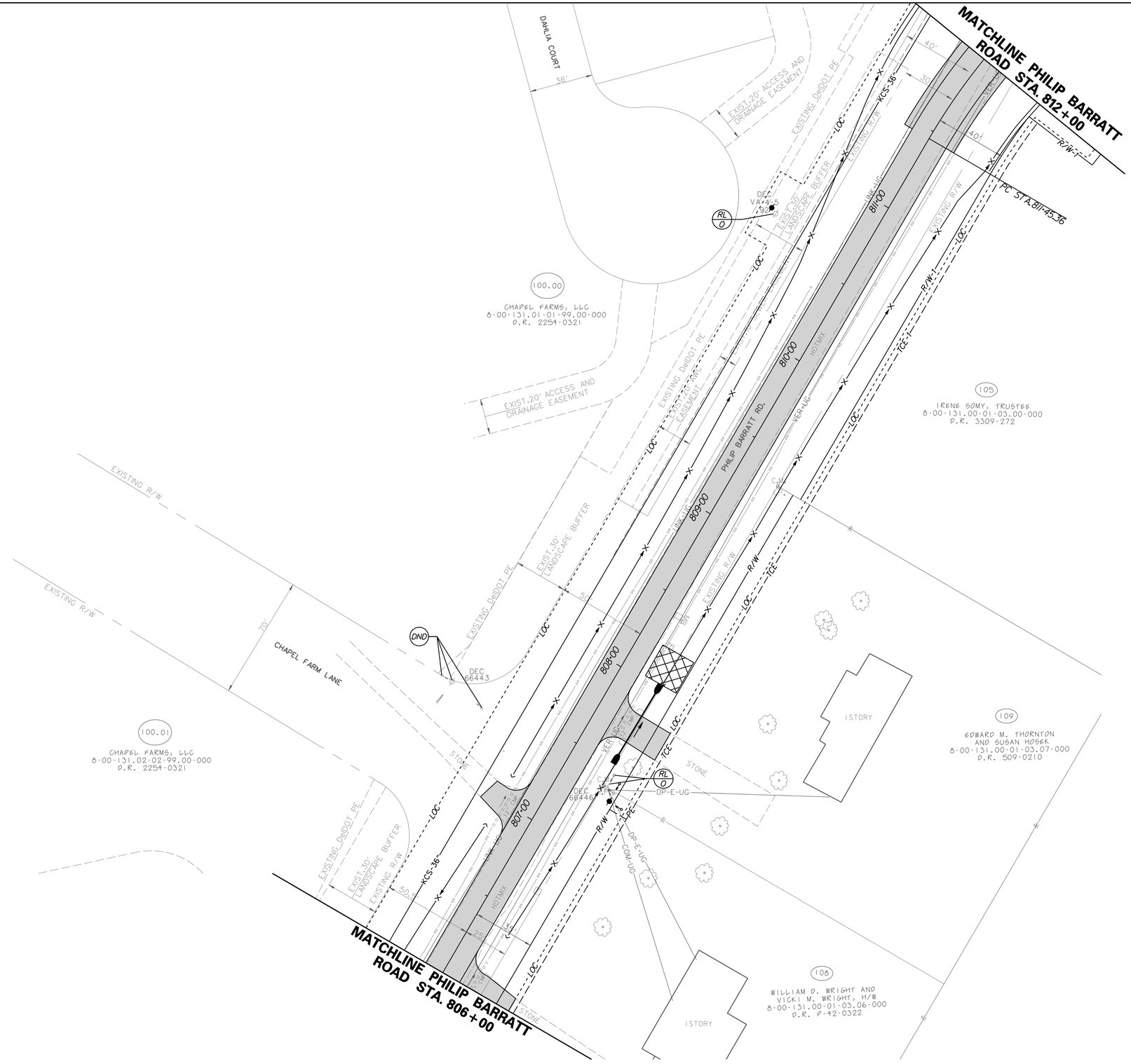
SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	T200412202
COUNTY	KENT

BRIDGE NO.	-
DESIGNED BY:	SFP
CHECKED BY:	WFC

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO.	512
TOTAL SHTS.	641



ITMS LEGEND

- PROPOSED JUNCTION WELL TYPE 11 (JW / 11)
- PROPOSED JUNCTION WELL TYPE 14 (JW / 14)
- PROPOSED JUNCTION WELL TYPE 7 (JW / 7)
- PROPOSED CONDUIT RUN & IDENTIFIER (* OF CONDUIT RUN) (CO / X)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
– –	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
⏚	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET — STATION, OFFSET
POL MH×AL ORCS — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	T200412202
COUNTY	KENT
BRIDGE NO.	-
DESIGNED BY:	SFP
CHECKED BY:	WFC

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO.	513
TOTAL SHTS.	641

12/30/2014
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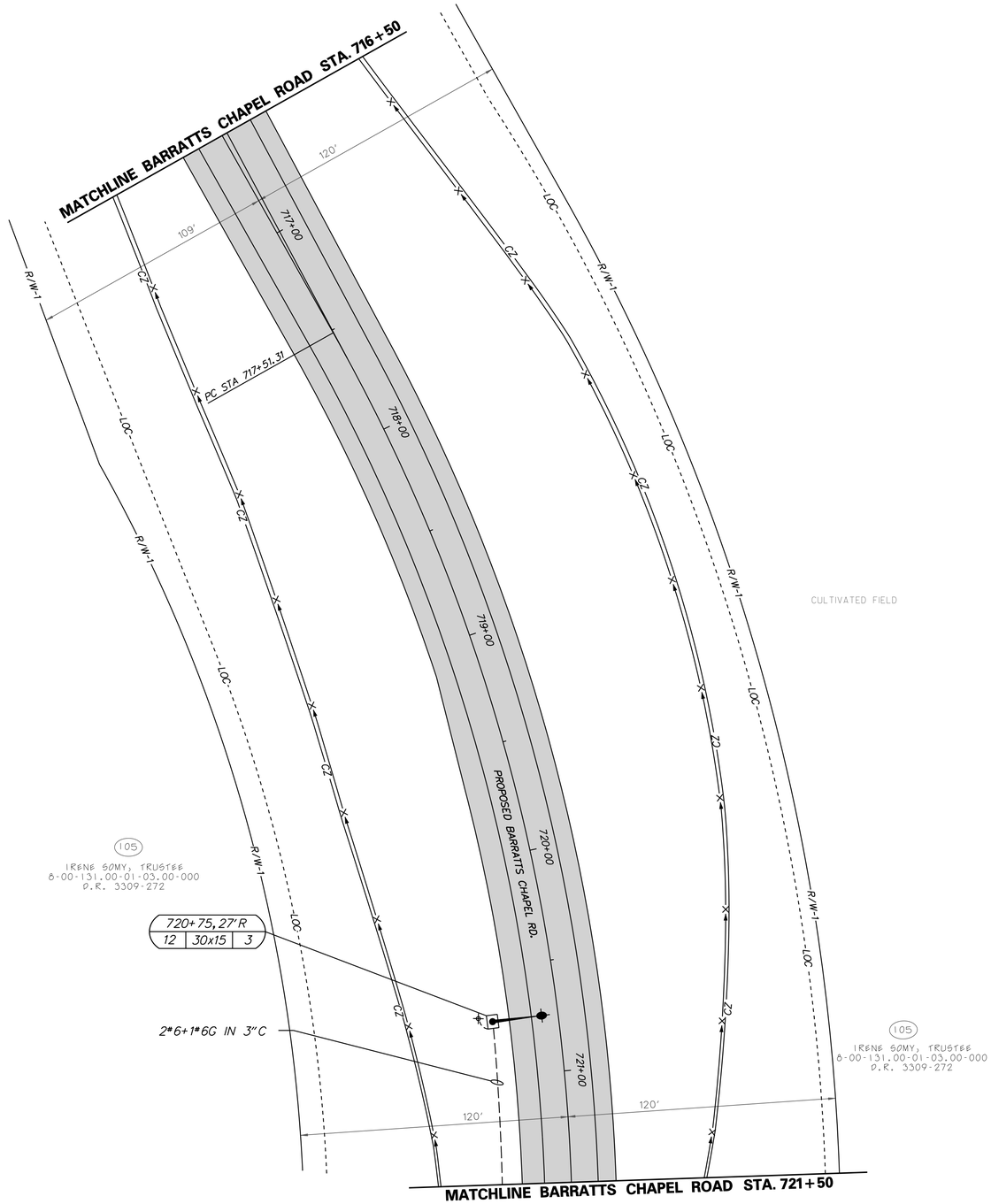

ITMS LEGEND

- PROPOSED JUNCTION WELL TYPE 11
- PROPOSED JUNCTION WELL TYPE 14
- PROPOSED JUNCTION WELL TYPE 7
- PROPOSED CONDUIT RUN & IDENTIFIER (* OF CONDUIT RUN)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
— —	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET
POL MH×AL ORS
STATION, OFFSET
CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE
0 30 60 90
FEET

SR1, LITTLE HEAVEN
GRADE SEPARATED INTERSECTION

CONTRACT	T200412202
COUNTY	KENT
BRIDGE NO.	-
DESIGNED BY:	SFP
CHECKED BY:	WFC

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO.	514
TOTAL SHTS.	641

12/30/2014
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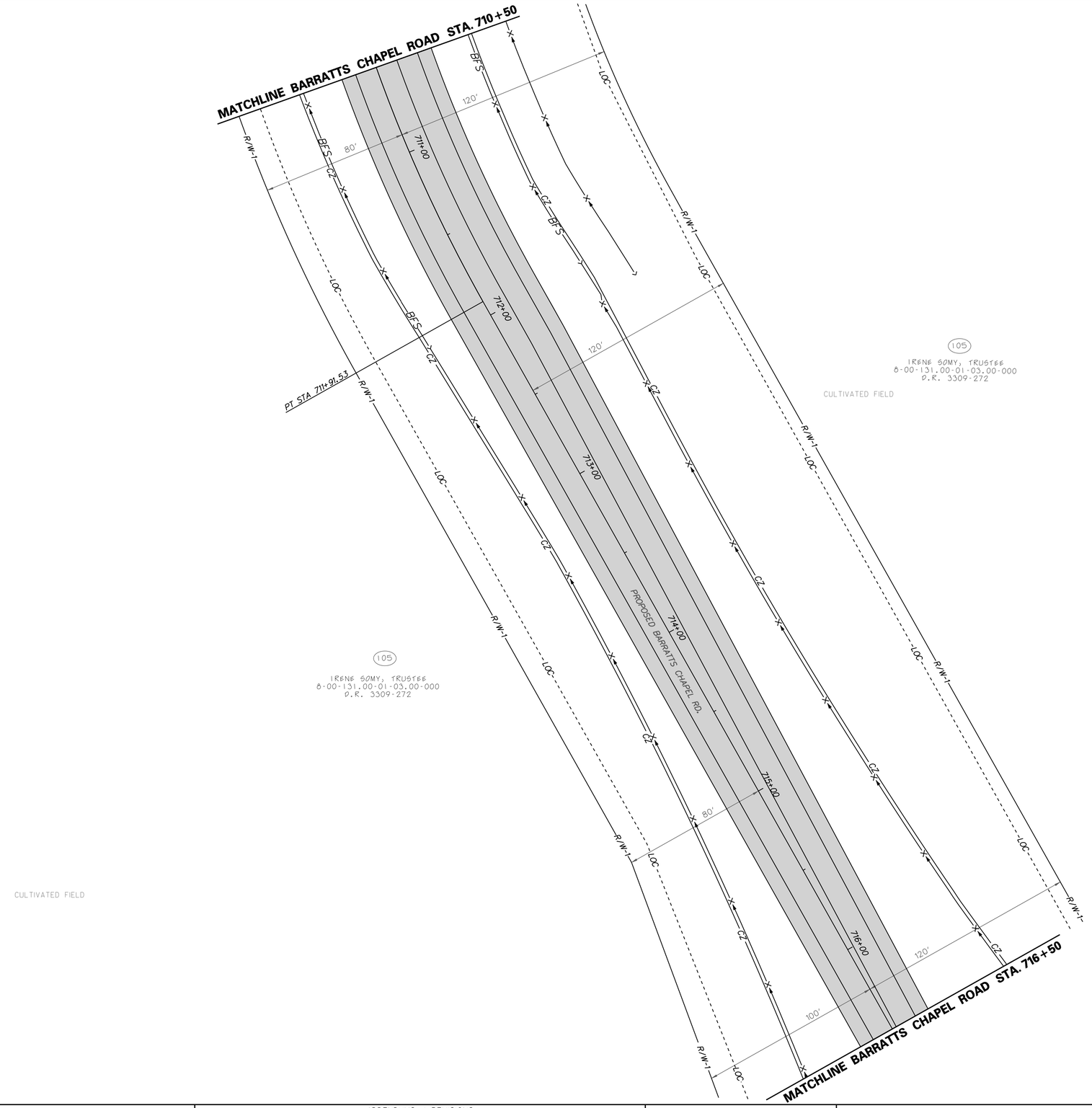

NO PROPOSED WORK TO BE DONE ON THIS SHEET

ITMS LEGEND

JW 11	PROPOSED JUNCTION WELL TYPE 11
JW 14	PROPOSED JUNCTION WELL TYPE 14
JW 7	PROPOSED JUNCTION WELL TYPE 7
CO X	PROPOSED CONDUIT RUN & IDENTIFIER (# OF CONDUIT RUN)
	PROPOSED RADAR DETECTION
	EXISTING RADAR DETECTION
	6'x6' LOOP DETECTOR
	EXISTING SIGNAL CABINET (TYPE P)
	PROPOSED SIGNAL CABINET (TYPE P)
	EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
	PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
	PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
	EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
ATR	AUTOMATIC TRAFFIC RECORDER (ATR)
ITMS-CON	4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
	VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
	PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
	EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET — STATION, OFFSET
POL MH×AL CIRCS — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

12/30/2014
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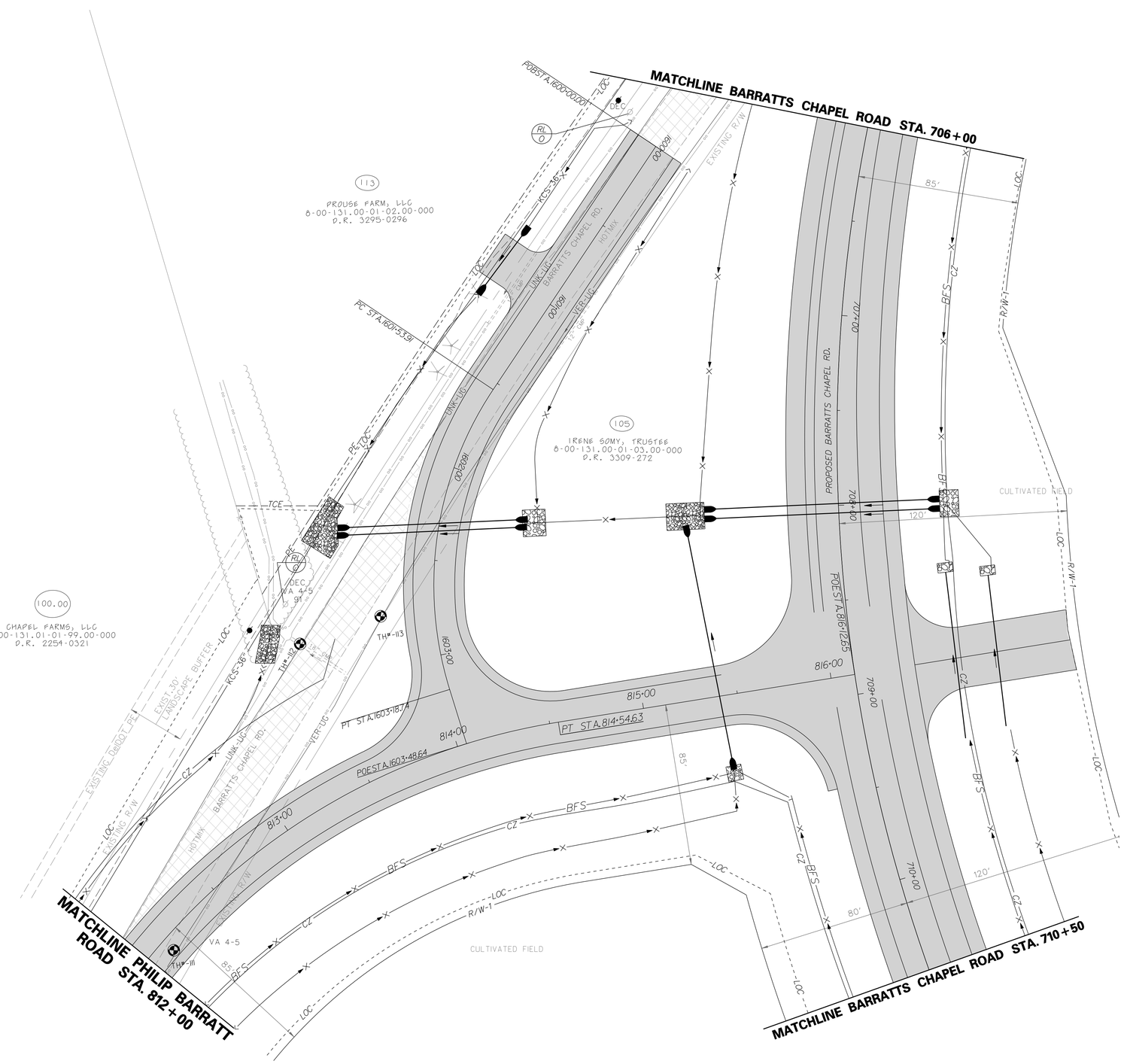
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION	CONTRACT T200412202	BRIDGE NO. -	UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS	SHEET NO. 515
				COUNTY KENT	DESIGNED BY: SFP		TOTAL SHTS. 641
					CHECKED BY: WFC		



UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	UTILITY EL.	COVER	O.D. & MATERIAL
111	VERIZON	812+12.08	7.37'	21.76'	2.48'	2.5" D.B.
112	DELDOT	813+49.51	-81.52'	22.37'	1.76'	18" CMP
112	VERIZON	813+49.51	-81.52'	22.22'	1.91'	0.25 D.B.
113	VERIZON	813+85.92	78.07'	19.35'	2.77'	1" D.B.

ITMS LEGEND

- JW 11 — PROPOSED JUNCTION WELL TYPE 11
- JW 14 — PROPOSED JUNCTION WELL TYPE 14
- JW 7 — PROPOSED JUNCTION WELL TYPE 7
- CO X — PROPOSED CONDUIT RUN & IDENTIFIER (# OF CONDUIT RUN)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- ATR — AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
— —	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
⏚	GROUND ROD

POLE IDENTIFICATION

STATION,OFFSET — STATION, OFFSET
POL MH×AL ORCS — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	T200412202
COUNTY	KENT
BRIDGE NO.	-
DESIGNED BY:	SFP
CHECKED BY:	WFC

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO.	516
TOTAL SHTS.	641

4/16/2025
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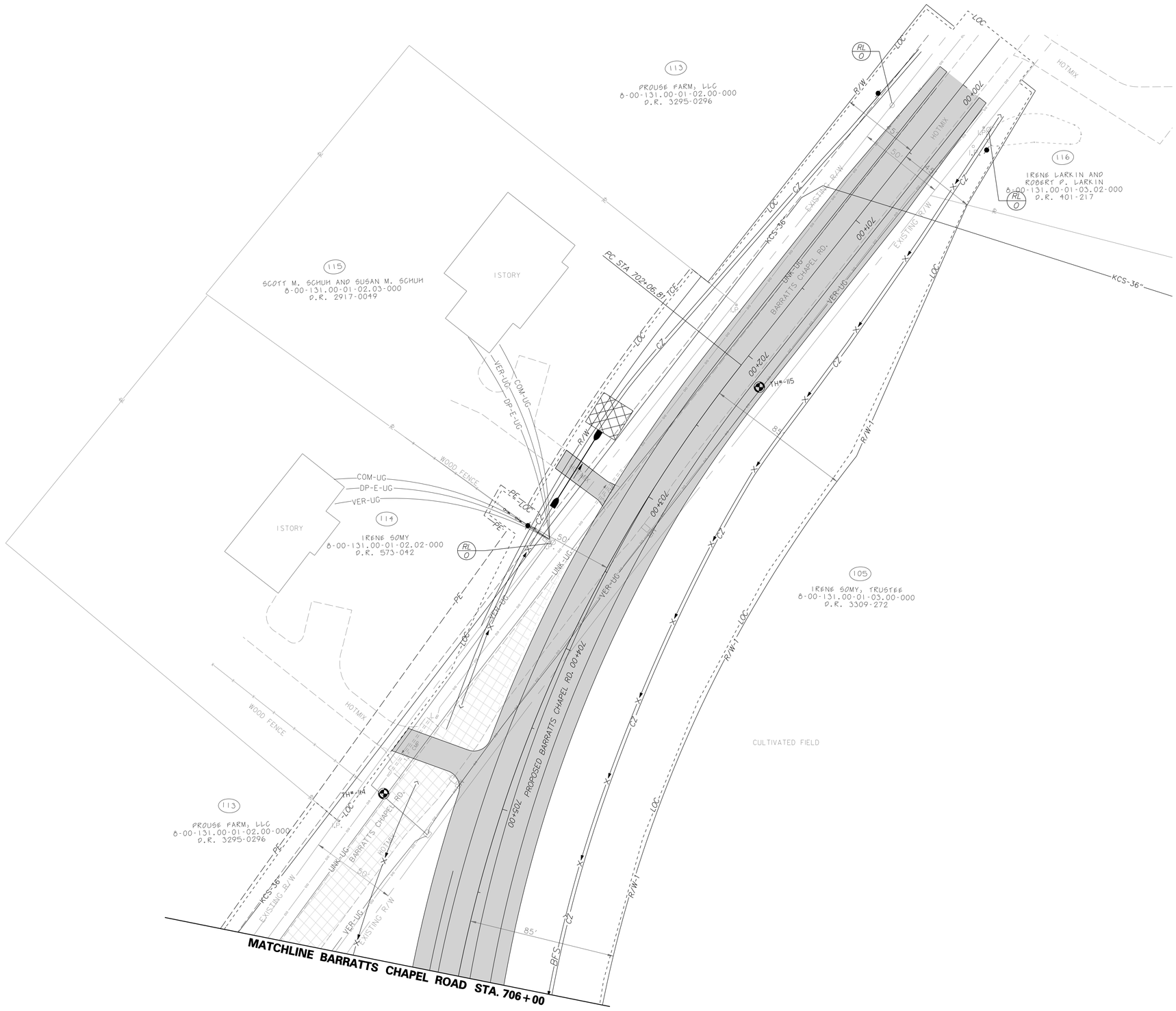

UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	UTILITY EL.	COVER	O.D. & MATERIAL
114	N/A	705+11.93	68.14'	23.65'	2.26'	0.25 D.B.
115	VERIZON	702+10.38	-16.14'	23.41'	2.56'	1.5" D.B.

ITMS LEGEND

- JW 11 — PROPOSED JUNCTION WELL TYPE 11
- JW 14 — PROPOSED JUNCTION WELL TYPE 14
- JW 7 — PROPOSED JUNCTION WELL TYPE 7
- CO X — PROPOSED CONDUIT RUN & IDENTIFIER (# OF CONDUIT RUN)
- PROPOSED RADAR DETECTION
- EXISTING RADAR DETECTION
- 6'x6' LOOP DETECTOR
- EXISTING SIGNAL CABINET (TYPE P)
- PROPOSED SIGNAL CABINET (TYPE P)
- EXISTING POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED POLE AND POLE MOUNTED CABINET (TYPE M)
- PROPOSED ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- EXISTING ROAD WEATHER INFORMATION SYSTEM (RWIS) PUCK SENSOR
- ATR — AUTOMATIC TRAFFIC RECORDER (ATR)
- ITMS-CON — 4" MULTIDUCT, SDR-13.5 HDPE FOR BORE/ 4" SCHEDULE 80 PVC FOR TRENCH (WITH (4) 1" RIBBED INNER DUCT)
- VARIABLE MESSAGE SIGN WITH BUTTERFLY CANTILEVER
- PROPOSED VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE
- EXISTING VIDEO MONITORING CAMERA (CCTV) ON 75' POLE WITH LOWERING DEVICE

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	250 W COBRAHEAD LUMINAIRE (CUTOFF FIXTURE) ON GROUND MOUNTED LIGHTING STRUCTURE
C	CONTROL AND DISTRIBUTION BOX
J	JUNCTION BOX (TYPE 11 UNLESS OTHERWISE NOTED)
	PVC CONDUIT UNDER NEW PAVEMENT OR SODDED TRENCH, HDPE CONDUIT FOR BORING 24" MIN. BELOW FINISHED GRADE.
	GROUND ROD

POLE IDENTIFICATION

STATION, OFFSET — STATION, OFFSET
POL MH×AL CRCS — CIRCUIT NUMBER
POLE HIEGHT AND ARM LENGTH
POLE NUMBER

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

UTILITY RELOCATION, LIGHTING, AND ITMS CONDUIT PLANS

SHEET NO. 517
TOTAL SHTS. 641

4/16/2015
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SIGNING & STRIPING GENERAL NOTES

1) THE CONTRACTOR SHALL BE GOVERNED BY THE STANDARDS AND REQUIREMENTS OF THE FOLLOWING PUBLICATIONS, EXCEPT AS MODIFIED BY THE SPECIAL PROVISIONS OF THIS CONTRACT OR THROUGH WRITTEN APPROVAL BY THE ENGINEER.

DELDOT	- "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", 2011 EDITION AND SUBSEQUENT REVISIONS (M.U.T.C.D.)
A.A.S.H.T.O	- STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS - 4TH EDITION, 2001-2006 INTERIM EDITION AND SUBSEQUENT PUBLICATIONS
F.H.W.A.	- "STANDARD HIGHWAY SIGNS", 2004 EDITION AND SUBSEQUENT REVISIONS.

2) ALL MESSAGE CHARACTERS FOR THE OVERHEAD SIGNS AND GROUND MOUNT SIGNS SHALL BE SERIES "Emod", UNLESS NOTED OTHERWISE.

3) SIGNS ARE LOCATED ON THE PLANS BY STATIONING. ANY CHANGES IN THE LOCATION OF SIGNS AS SHOWN ON PLANS SHALL HAVE THE PRIOR APPROVAL OF THE ENGINEER.

4) EVEN THOUGH THE PLANS SHOW THE SIGN PANELS WITH SQUARE CORNERS, THE SIGN PANELS SHALL BE CONSTRUCTED WITH CORNER RADII TO MEET SIGN BORDERS.

5) ALL SIGNS ERECTED THAT ARE VISIBLE TO THE TRAVELING PUBLIC WHICH CONTAIN MESSAGES FOR PORTIONS OF THE PROPOSED ROADWAYS THAT ARE NOT OPEN TO THE TRAVELING PUBLIC SHALL BE SECURELY COVERED SO THAT NO PORTION OF THE MESSAGE IS VISIBLE. THE METHOD AND MATERIAL FOR COVERING THE SIGN, MAINTAINING THE COVER AND REMOVING SHALL BE INCIDENTAL TO THE PRICE BID FOR ITEM 749500 - SIGN PANEL. THE SIGN COVER MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AT THE COMPLETION OF THE CONTRACT.

6) ALL MATERIAL AND LABOR TO CORRECT ANY DAMAGE TO EMBANKMENTS OR SEEDING, ETC. CAUSED BY THE INSTALLATION OR REMOVAL OF OVERHEAD, CANTILEVER OR GROUND MOUNTED SIGNS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AS APPROVED BY THE ENGINEER, WITH ALL COSTS INCIDENTAL TO THE ITEM THAT WAS BEING INSTALLED.

7) THE CONTRACTOR SHALL LAYOUT THE LOCATION OF ALL PAVEMENT MARKINGS, INCLUDING INDIVIDUAL SKIP MARKS, FOR APPROVAL BY THE ENGINEER PRIOR TO BEGINNING ANY WORK ASSOCIATED WITH INSTALLING THE MARKINGS.

8) THE EXISTING SIGNS THAT CONTAIN MESSAGES CONTRARY TO THE FINAL ROADWAY CONFIGURATION SHALL BE IMMEDIATELY COVERED OR REMOVED AFTER OPENING THAT PHASE TO TRAFFIC. THE METHOD AND MATERIAL FOR COVERING THE SIGN, MAINTAINING THE COVER, AND REMOVING SHALL BE INCIDENTAL TO THE PRICE BID UNDER ITEM 211000. THE SIGN COVER MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AT THE COMPLETION OF THE CONTRACT.

9) FOR SPECIFIED LOCATIONS WHERE EXISTING SIGN PANELS ARE TO BE RELOCATED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL NEW MATERIAL AND HARDWARE TO CONNECT THE EXISTING SIGN TO THE NEW GROUND MOUNT STRUCTURE.

10) ALL MATERIAL DEEMED SALVAGEABLE BY THE ENGINEER FROM THE REMOVAL OF EXISTING GROUND MOUNT SIGNS, SUPPORTS AND FOUNDATIONS SHALL BE DELIVERED TO THE DELDOT SIGN SHOP. ALL OTHER MATERIALS SHALL BE PROPERLY DISPOSED OF. ALL COSTS SHALL BE INCIDENTAL TO ITEM #211000.

11) THE CONTRACTOR SHALL NOTIFY MISS UTILITY PRIOR TO INSTALLING THE GROUND MOUNT SIGN FOUNDATIONS. ONCE ALL UTILITIES ARE DESIGNATED THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR FINAL APPROVAL AND LOCATION OF THE GROUND MOUNT SIGN FOUNDATIONS. ALL COST ARE INCIDENTAL TO THE CONTRACT.

12) THE CONTRACTOR SHALL IDENTIFY ALL EXISTING AND PROPOSED UNDERDRAIN OUTLET PIPES PRIOR TO INSTALLING THE GROUND MOUNT SIGN FOUNDATIONS. PER THE DIRECTION OF THE ENGINEER THE GROUND MOUNT SIGN FOUNDATIONS SHALL NOT CONFLICT WITH THE EXISTING UNDERDRAIN. ALL COST ARE INCIDENTAL TO THE CONTRACT.

13) THE CONTRACTOR SHALL INSTALL RUMBLE STRIPS THROUGHOUT THE PROJECT LIMITS AS PER THE CONSTRUCTION DETAILS IN THE PLANS AND AS DIRECTED IN THE FIELD BY THE ENGINEER. IT SHOULD BE NOTED THAT RUMBLE STRIPS SHALL BE PROVIDED ALONG EACH SIDE OF SR1 NORTHBOUND AND SOUTHBOUND WITHIN THE PROJECT LIMITS.

14) THE CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKINGS THROUGHOUT THE PROJECT LIMITS AS PER THE DELAWARE MUTCD (PAGES 3B-48 TO 3B-58) AND AS DIRECTED IN THE FIELD BY THE ENGINEER. IT SHOULD BE NOTED THAT RPM'S SHALL BE PROVIDED ON SR1, BARRATTS CHAPEL ROAD, PHILIP BARRATT ROAD, BOWERS BEACH ROAD, BUFFALO ROAD, OLD BEACH ROAD, CLAPHAM ROAD, LITTLE HEAVEN ROAD AND ALL RAMPS IN ACCORANCE WITH THE STANDARDS.

15) PLACE VERTICAL DELINEATORS AT ON/OFF RAMPS AS SHOWN IN PROJECT DETAILS.

16) SIGN PANELS, SUPPORTS, HARDWARE, ETC. DESIGNATED AS TYPES GM, BM, R OR C ON PLAN SHEETS 566 TO 570 ARE TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR. SIGN TYPES GG ON PLAN SHEETS 566 TO 570 AND ALL SIGNS DETAILED ON PLANS SHEETS 563 TO 565, INCLUDING MOUNTING POSTS AND HARDWARE, WILL BE SUPPLIED TO THE CONTRACTOR BY DELDOT.

17) ALL PROPOSED GG's, 'D3-1' AND 'W16-8a' SIGN LEGENDS WILL USE HELVETICA FONT.

1/22/2015
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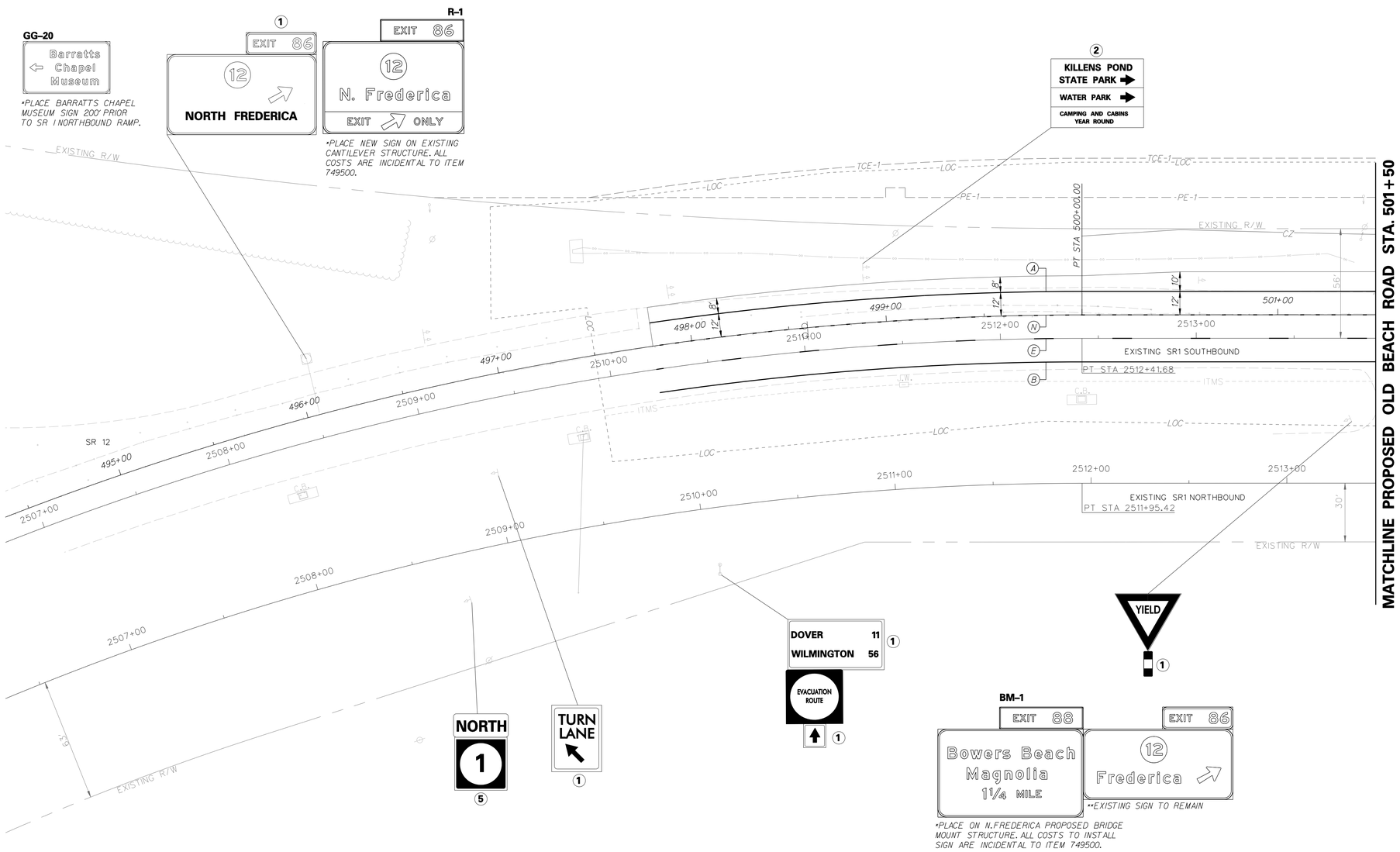

STRIPING NOTE:
CROSSWALK SYMBOLS TO BE 2' WIDE BY 10' LONG WITH 2' SPACING BETWEEN SYMBOLS. STOP BARS SHALL BE PLACED A MIN. OF 5' BEHIND CROSSWALKS.

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

PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM	QUANTITY
A	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	367 LF
B	5" SOLID YELLOW EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	367 LF
C	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	0 LF
D	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP (ITEM 748548)	0 LF
E	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP (ITEM 748548)	92 LF
F	5" DASHED YELLOW EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP (ITEM 748548)	0 LF
G	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015)	0 SF
H	24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015)	0 SF
J	WHITE ALKYD THERMOPLASTIC PAVEMENT SYMBOL (ITEM 748015)	0 SF
K	10" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748549)	0 LF
L	12" SOLID YELLOW ALKYD THERMOPLASTIC PAVEMENT STRIPING, 25' CC @ 45° (ITEM 748027)	0 LF
M	RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKING, BIKE SYMBOL (ITEM 748553)	0 EA
N	10" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 3' LINE & 9' GAP (ITEM 748549)	92 LF

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

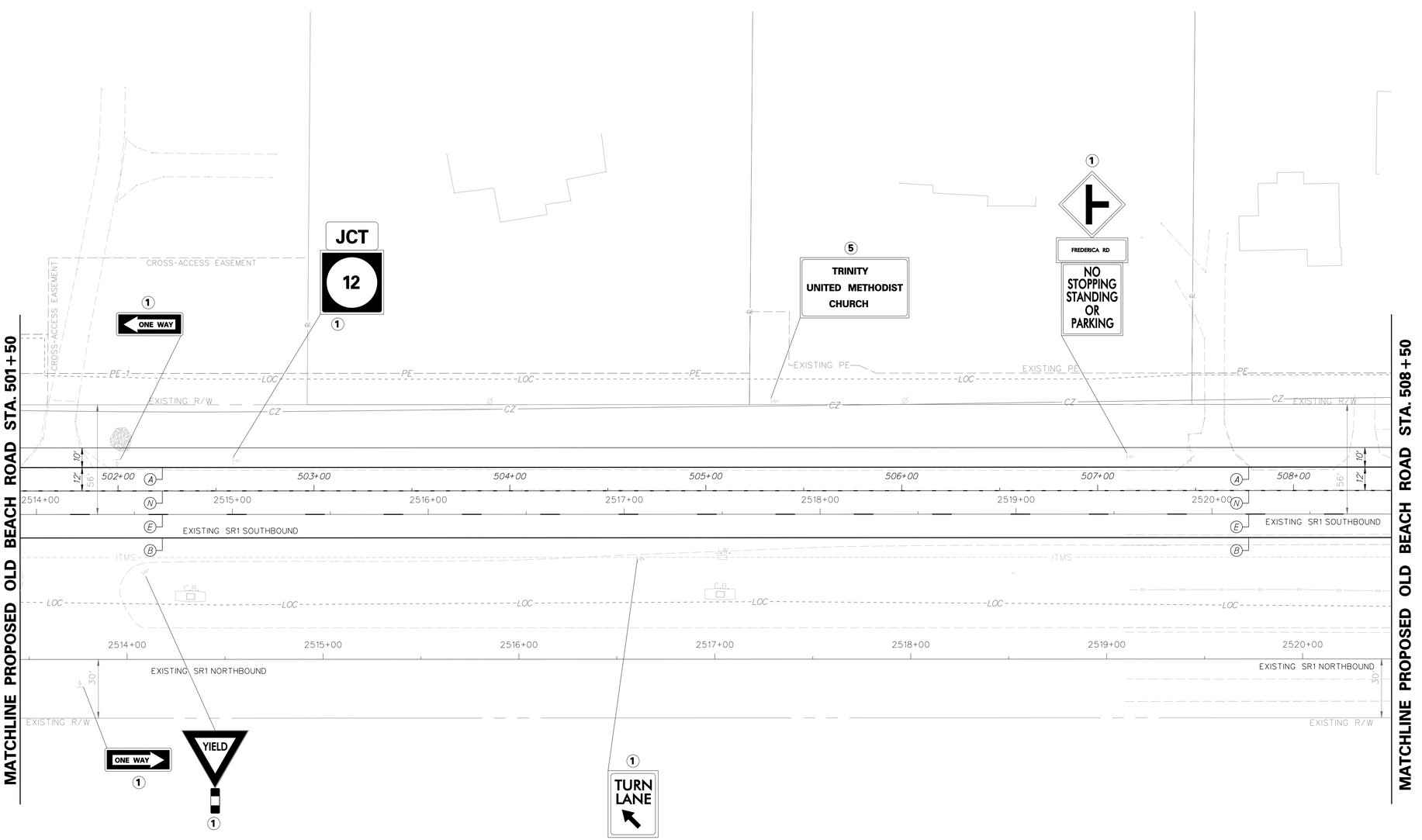
SCALE 0 30 60 90 FEET

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

SIGNING AND STRIPING

SHEET NO. 519
TOTAL SHTS. 641



SIGNING LEGEND

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

PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM	QUANTITY
(A)	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	700 LF
(B)	5" SOLID YELLOW EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	700 LF
(C)	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	0 LF
(D)	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP (ITEM 748548)	0 LF
(E)	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP (ITEM 748548)	175 LF
(F)	5" DASHED YELLOW EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP (ITEM 748548)	0 LF
(G)	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015)	0 SF
(H)	24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015)	0 SF
(J)	WHITE ALKYD THERMOPLASTIC PAVEMENT SYMBOL (ITEM 748015)	0 SF
(K)	10" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748549)	0 LF
(L)	12" SOLID YELLOW ALKYD THERMOPLASTIC PAVEMENT STRIPING, 25'CC @ 45° (ITEM 748027)	0 LF
(M)	RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKING, BIKE SYMBOL (ITEM 748553)	0 EA
(N)	10" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 3' LINE & 9' GAP (ITEM 748549)	175 LF

STRIPING NOTE:
CROSSWALK SYMBOLS TO BE 2' WIDE BY 10' LONG WITH 2' SPACING BETWEEN SYMBOLS. STOP BARS SHALL BE PLACED A MIN. OF 5' BEHIND CROSSWALKS.

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	T200412202
COUNTY	KENT
BRIDGE NO.	-
DESIGNED BY:	SFP
CHECKED BY:	WFC

SIGNING AND STRIPING

SHEET NO.	520
TOTAL SHTS.	641

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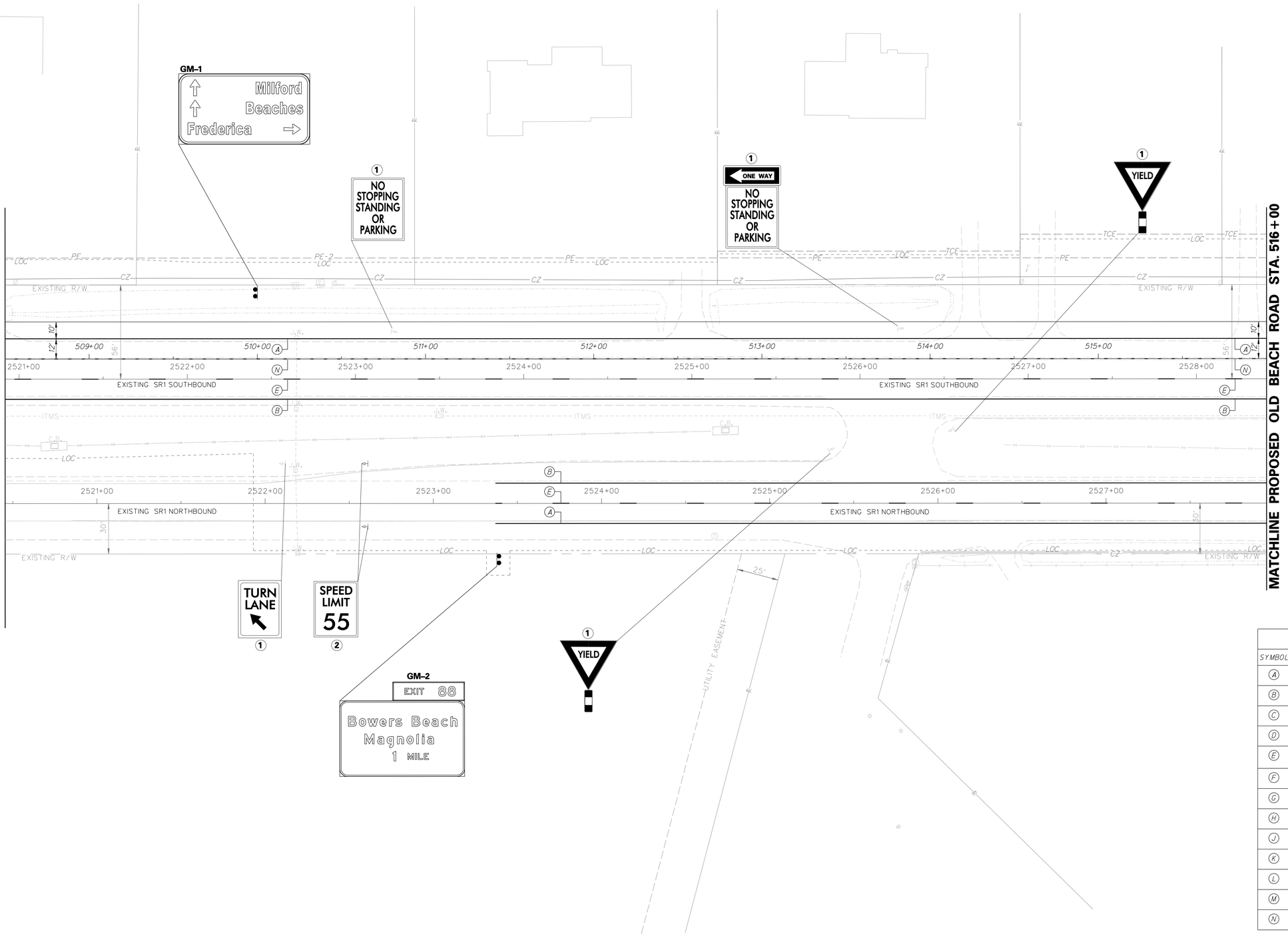

SIGNING LEGEND

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

PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM	QUANTITY
Ⓐ	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	1,209 LF
Ⓑ	5" SOLID YELLOW EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	1,209 LF
Ⓒ	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	0 LF
Ⓓ	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP (ITEM 748548)	0 LF
Ⓔ	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP (ITEM 748548)	303 LF
Ⓕ	5" DASHED YELLOW EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP (ITEM 748548)	0 LF
Ⓖ	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015)	0 SF
Ⓗ	24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015)	0 SF
Ⓙ	WHITE ALKYD THERMOPLASTIC PAVEMENT SYMBOL (ITEM 748015)	0 SF
Ⓚ	10" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748549)	0 LF
Ⓛ	12" SOLID YELLOW ALKYD THERMOPLASTIC PAVEMENT STRIPING, 25' CC @ 45° (ITEM 748027)	0 LF
Ⓜ	RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKING, BIKE SYMBOL (ITEM 748553)	0 EA
Ⓝ	10" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 3' LINE & 9' GAP (ITEM 748549)	188 LF

STRIPING NOTE:
CROSSWALK SYMBOLS TO BE 2' WIDE BY 10' LONG WITH 2' SPACING BETWEEN SYMBOLS. STOP BARS SHALL BE PLACED A MIN. OF 5' BEHIND CROSSWALKS.

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

SIGNING AND STRIPING

SHEET NO.
521
TOTAL SHTS.
641

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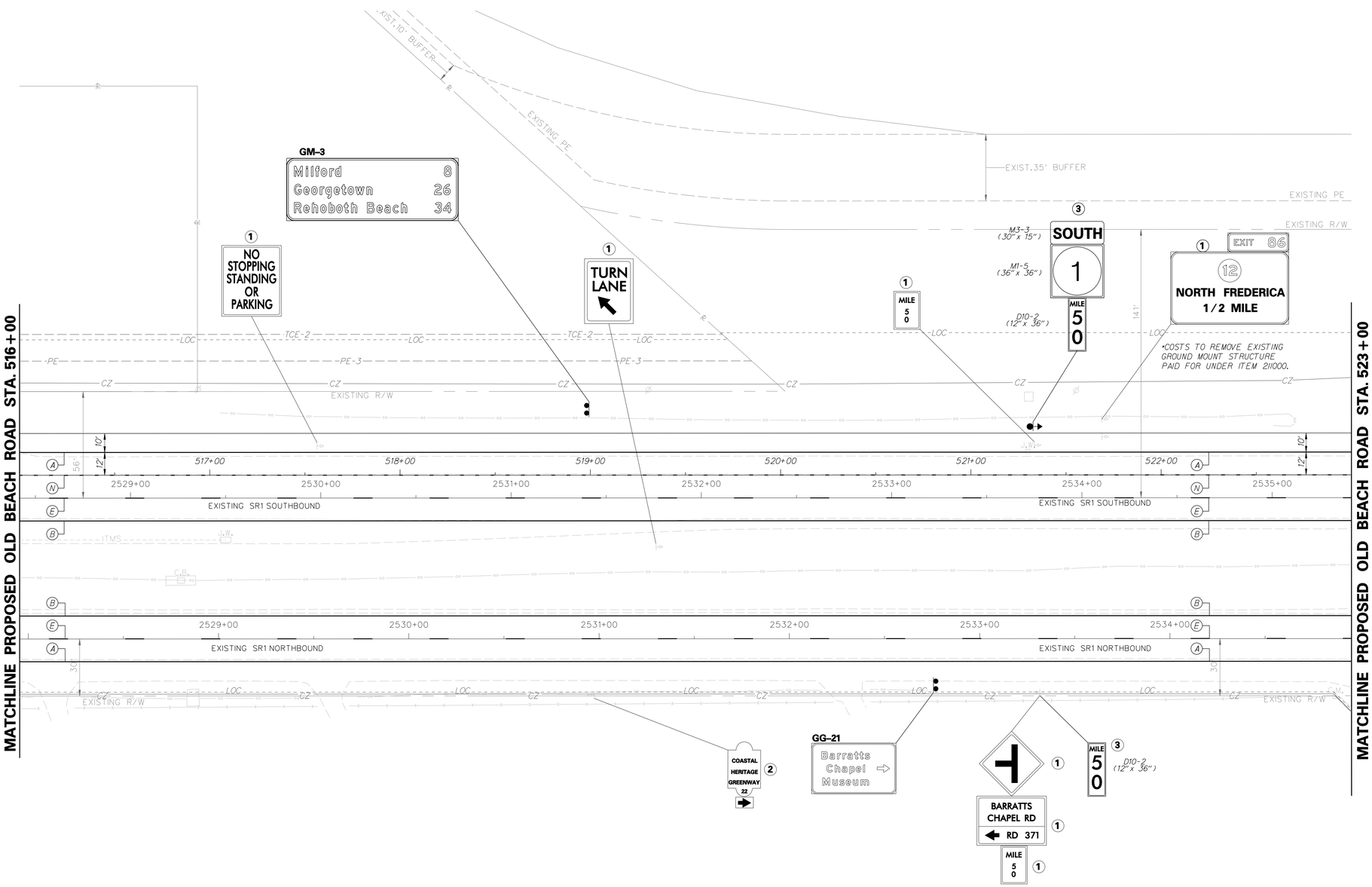

SIGNING LEGEND
① REMOVE EXISTING SIGN
② EXISTING SIGN TO REMAIN
③ PLACE NEW SIGN
④ RENEW EXISTING SIGN
⑤ REPOSITION EXISTING SIGN

PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM	QUANTITY
A	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	1.400 LF
B	5" SOLID YELLOW EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	1,400 LF
C	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	0 LF
D	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP (ITEM 748548)	0 LF
E	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP (ITEM 748548)	350 LF
F	5" DASHED YELLOW EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP (ITEM 748548)	0 LF
G	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015)	0 SF
H	24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015)	0 SF
J	WHITE ALKYD THERMOPLASTIC PAVEMENT SYMBOL (ITEM 748015)	0 SF
K	10" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748549)	0 LF
L	12" SOLID YELLOW ALKYD THERMOPLASTIC PAVEMENT STRIPING, 25' CC @ 45° (ITEM 748027)	0 LF
M	RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKING, BIKE SYMBOL (ITEM 748553)	0 EA
N	10" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 3' LINE & 9' GAP (ITEM 748549)	175 LF

STRIPING NOTE:
CROSSWALK SYMBOLS TO BE 2' WIDE BY 10' LONG WITH 2' SPACING BETWEEN SYMBOLS. STOP BARS SHALL BE PLACED A MIN. OF 5' BEHIND CROSSWALKS.

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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION	CONTRACT T200412202	BRIDGE NO. -	SIGNING AND STRIPING	SHEET NO. 522
				COUNTY KENT	DESIGNED BY: SFP		TOTAL SHTS. 641
					CHECKED BY: WFC		

MATCHLINE PROPOSED OLD BEACH ROAD STA. 523+00

MATCHLINE PHILIP BARRATT ROAD 800+50

MATCHLINE SR1 CENTERLINE STA. 107+50

70'

R2-1-55 (48" x 60")

SPEED LIMIT 55

SPEED LIMIT 55

NORTH 1

SOUTH 1

SOUTH 1

R3-3-DE (36" x 36")

R3-4 (36" x 36")

NO TURNS OFFICIAL USE ONLY

BAY RD

BARRATTS CHAPEL RD

ONE WAY

STOP

DIVIDED HIGHWAY

EXIST.35' BUFFER

DO NOT ENTER

R5-1 (36" x 36")

EXISTING PE

EXISTING R/W

C-3

EXIT 86

12

N. Frederica

1/2 MILE

EXIT ONLY

*PLACE ON PROPOSED CANTILEVER SIGN STRUCTURE SC 2013.

LOC

CZ

R6-1L (54" x 18")

ONE WAY

STOP

EXIST. 30' BUFFER

OM4-3 (18" x 18") ON GATE

800+00

2307+00

PHILIP BARRATT RD.

2308+00

POBSTA 2308+79.28

2308+79

STATE PROPERTY NO TRESPASSING

YIELD

NO TURNS OFFICIAL USE ONLY

R3-3-DE (36" x 36")

R3-1 (36" x 36")

524+00 525+00 526+00 527+00 528+00 529+00 530+00

2536+00 2537+00 2538+00 2539+00 2540+00 2046+00 2047+00

EXISTING SR1 SOUTHBOUND

PISTA 528+11.53

POBSTA 100+00.00

101+00 102+00 103+00 104+00 105+00 106+00 107+00

ONE WAY R6-1R (54" x 18")

PISTA 105+06.02

2535+00 2536+00 2537+00 2538+00 2539+00 2540+00 2140+00 2141+00 2142+00

EXISTING SR1 NORTHBOUND

TURN LANE

EM-1-DE (24" x 24")

EM-1p-DE (12" x 12")

EVACUATION ROUTE

WRONG WAY

R5-1a (36" x 24")

STOP

R6-1L (54" x 18")

ONE WAY

R3-5R (30" x 36")

ONLY

ONE WAY

R3-4 (36" x 36")

R3-3-DE (36" x 36")

NO TURNS OFFICIAL USE ONLY

4 5 NORTH 1

M1-5 (36" x 36")

M3-1 (30" x 15")

Dover 8

Wilmington 56

GM-4

WRONG WAY

R5-1a (36" x 24")

R/W-1-DA

R/W-1-DB

I.P.

SIGNING LEGEND

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

PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM	QUANTITY
A	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	1,717 LF
B	5" SOLID YELLOW EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	1,512 LF
C	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	218 LF
D	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP (ITEM 748548)	0 LF
E	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP (ITEM 748548)	378 LF
F	5" DASHED YELLOW EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP (ITEM 748548)	0 LF
G	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015)	0 SF
H	24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015)	0 SF
J	WHITE ALKYD THERMOPLASTIC PAVEMENT SYMBOL (ITEM 748015)	0 SF
K	10" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748549)	0 LF
L	12" SOLID YELLOW ALKYD THERMOPLASTIC PAVEMENT STRIPING, 25'CC @ 45° (ITEM 748027)	0 LF
M	RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKING, BIKE SYMBOL (ITEM 748553)	0 EA
N	10" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 3' LINE & 9' GAP (ITEM 748549)	189 LF

STRIPING NOTE:
CROSSWALK SYMBOLS TO BE 2' WIDE BY 10' LONG WITH 2' SPACING BETWEEN SYMBOLS. STOP BARS SHALL BE PLACED A MIN. OF 5' BEHIND CROSSWALKS.

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

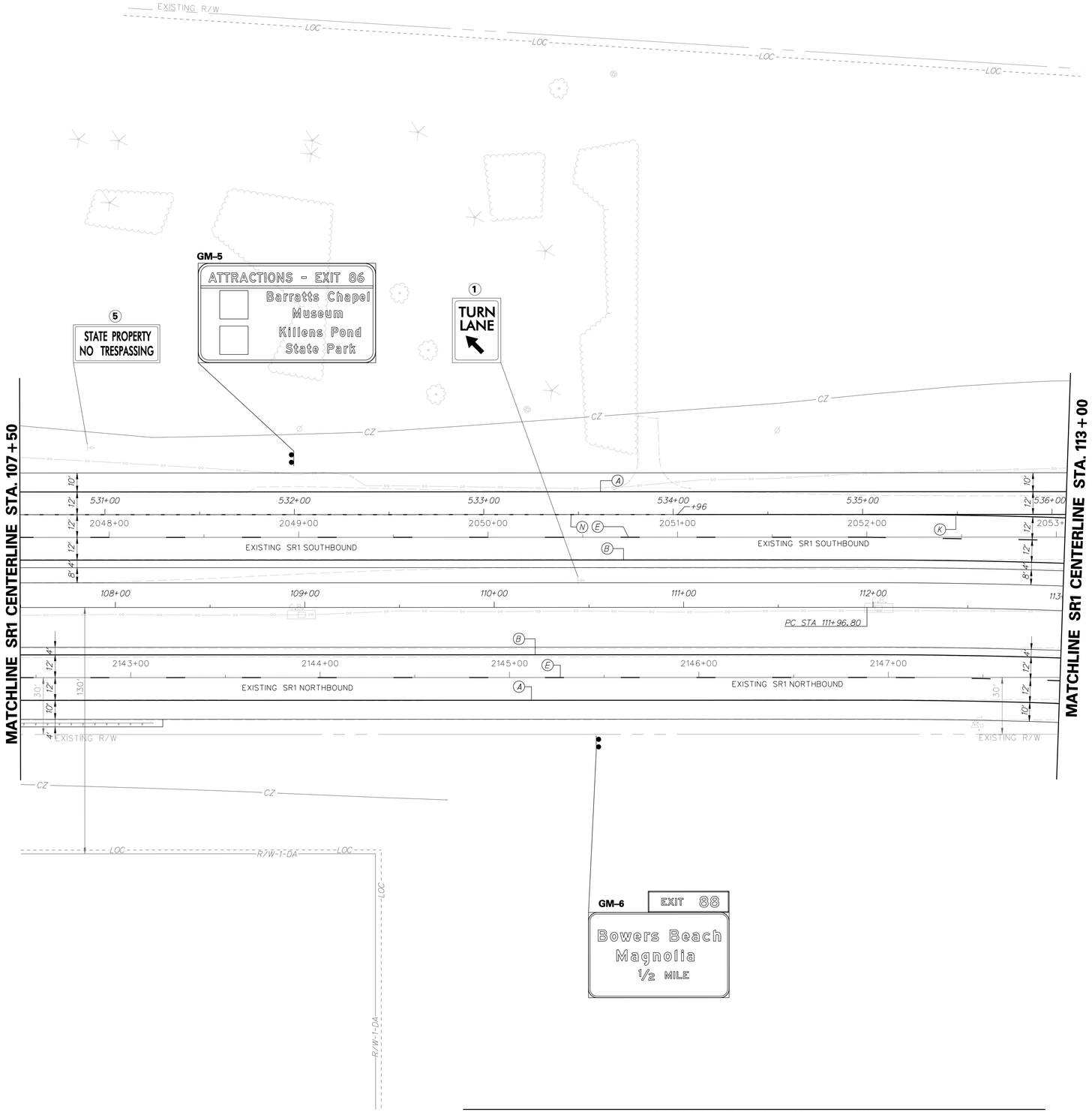
SCALE 0 30 60 90 FEET

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-
T200412202	DESIGNED BY:	SFP
COUNTY	CHECKED BY:	WFC
KENT		

SIGNING AND STRIPING

SHEET NO.
523
TOTAL SHTS.
641



MATCHLINE PLAN SHEET 526

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

PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM	QUANTITY
A	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	1,103 LF
B	5" SOLID YELLOW EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	1,103 LF
C	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	0 LF
D	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP (ITEM 748548)	0 LF
E	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP (ITEM 748548)	276 LF
F	5" DASHED YELLOW EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP (ITEM 748548)	0 LF
G	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015)	0 SF
H	24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015)	0 SF
J	WHITE ALKYD THERMOPLASTIC PAVEMENT SYMBOL (ITEM 748015)	0 SF
K	10" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748549)	310 LF
L	12" SOLID YELLOW ALKYD THERMOPLASTIC PAVEMENT STRIPING, 25'CC @ 45° (ITEM 748027)	0 LF
M	RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKING, BIKE SYMBOL (ITEM 748553)	0 EA
N	10" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 3' LINE & 9' GAP (ITEM 748549)	87 LF

STRIPING NOTE:
CROSSWALK SYMBOLS TO BE 2' WIDE BY 10' LONG WITH 2' SPACING BETWEEN SYMBOLS. STOP BARS SHALL BE PLACED A MIN. OF 5' BEHIND CROSSWALKS.

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION

CONTRACT	BRIDGE NO.	-	SIGNING AND STRIPING	SHEET NO.
T200412202	DESIGNED BY:	SFP		524
COUNTY	CHECKED BY:	WFC		TOTAL SHTS.
KENT				641

12/1/2014
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PAVEMENT MARKINGS LEGEND

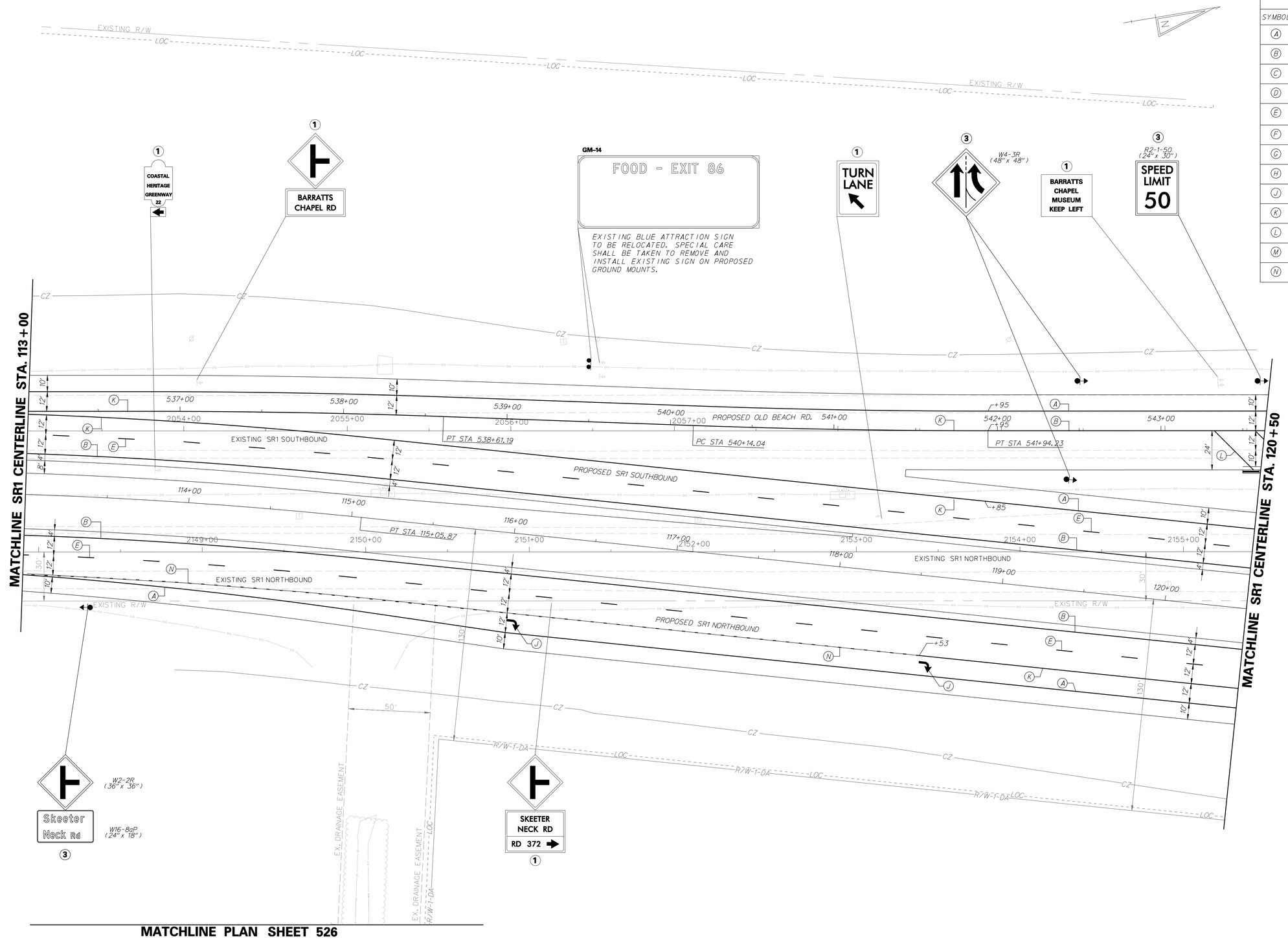
SYMBOL	ITEM	QUANTITY
(A)	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	1,773 LF
(B)	5" SOLID YELLOW EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	1,673 LF
(C)	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	0 LF
(D)	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP (ITEM 748548)	0 LF
(E)	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP (ITEM 748548)	376 LF
(F)	5" DASHED YELLOW EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP (ITEM 748548)	0 LF
(G)	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015)	0 SF
(H)	24" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015)	0 SF
(J)	WHITE ALKYD THERMOPLASTIC PAVEMENT SYMBOL (ITEM 748015)	31 SF
(K)	10" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748549)	1,372 LF
(L)	12" SOLID YELLOW ALKYD THERMOPLASTIC PAVEMENT STRIPING, 25' CC @ 45° (ITEM 748027)	42 LF
(M)	RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKING, BIKE SYMBOL (ITEM 748553)	0 EA
(N)	10" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 3' LINE & 9' GAP (ITEM 748549)	139 LF

SIGNING LEGEND

(1)	REMOVE EXISTING SIGN
(2)	EXISTING SIGN TO REMAIN
(3)	PLACE NEW SIGN
(4)	RENEW EXISTING SIGN
(5)	REPOSITION EXISTING SIGN

STRIPING NOTE:

CROSSWALK SYMBOLS TO BE 2' WIDE BY 10' LONG WITH 2' SPACING BETWEEN SYMBOLS. STOP BARS SHALL BE PLACED A MIN. OF 5' BEHIND CROSSWALKS.



DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION	CONTRACT T200412202	BRIDGE NO. -	SIGNING AND STRIPING	SHEET NO. 525
				COUNTY KENT	DESIGNED BY: SFP		TOTAL SHTS. 641
					CHECKED BY: WFC		

12/2/2004
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