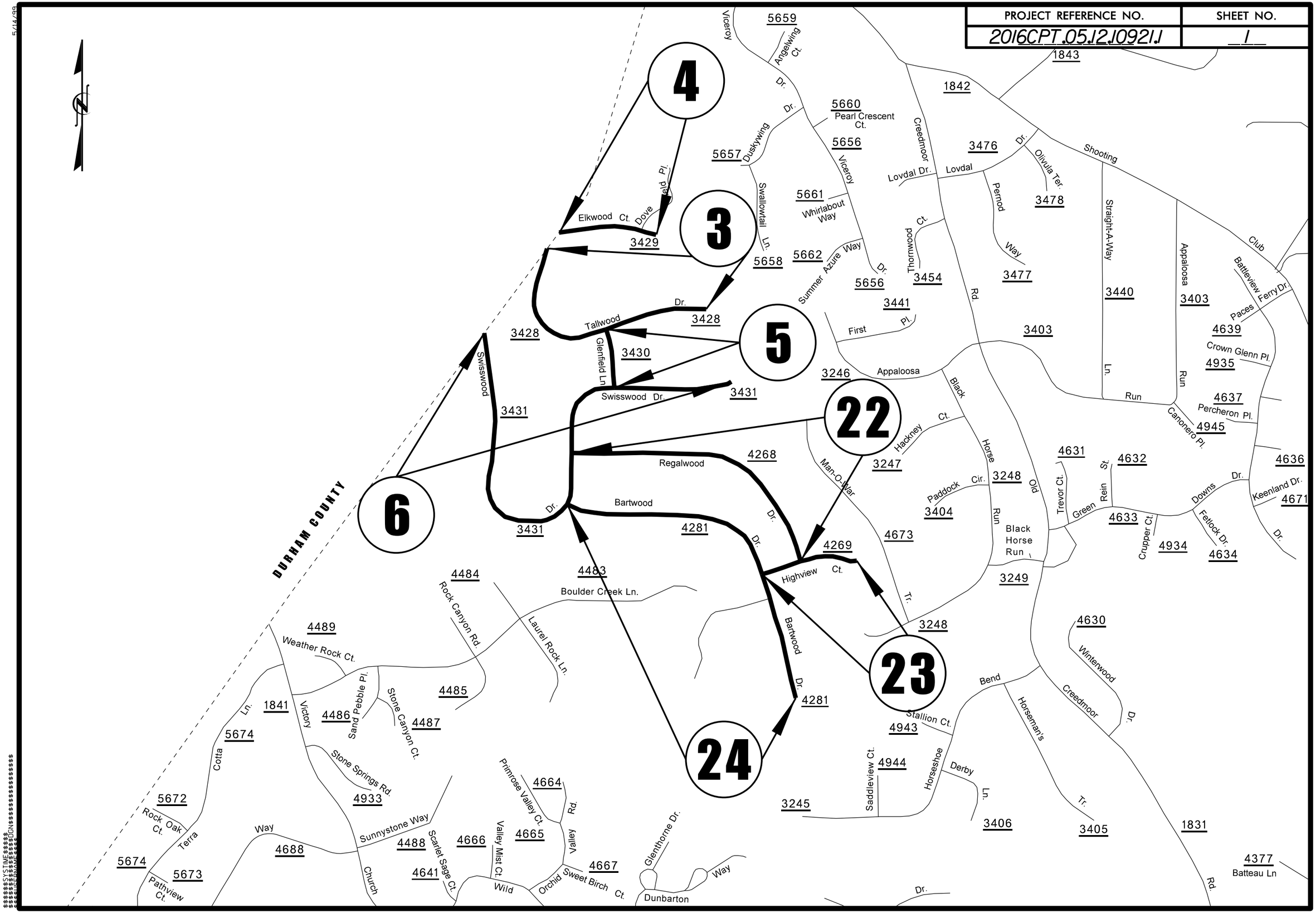
PROJECT REFERENCE NO.	SHEET NO.
2016CPT.05.12.109211	1



PROJECT REFERENCE NO.	SHEET NO.
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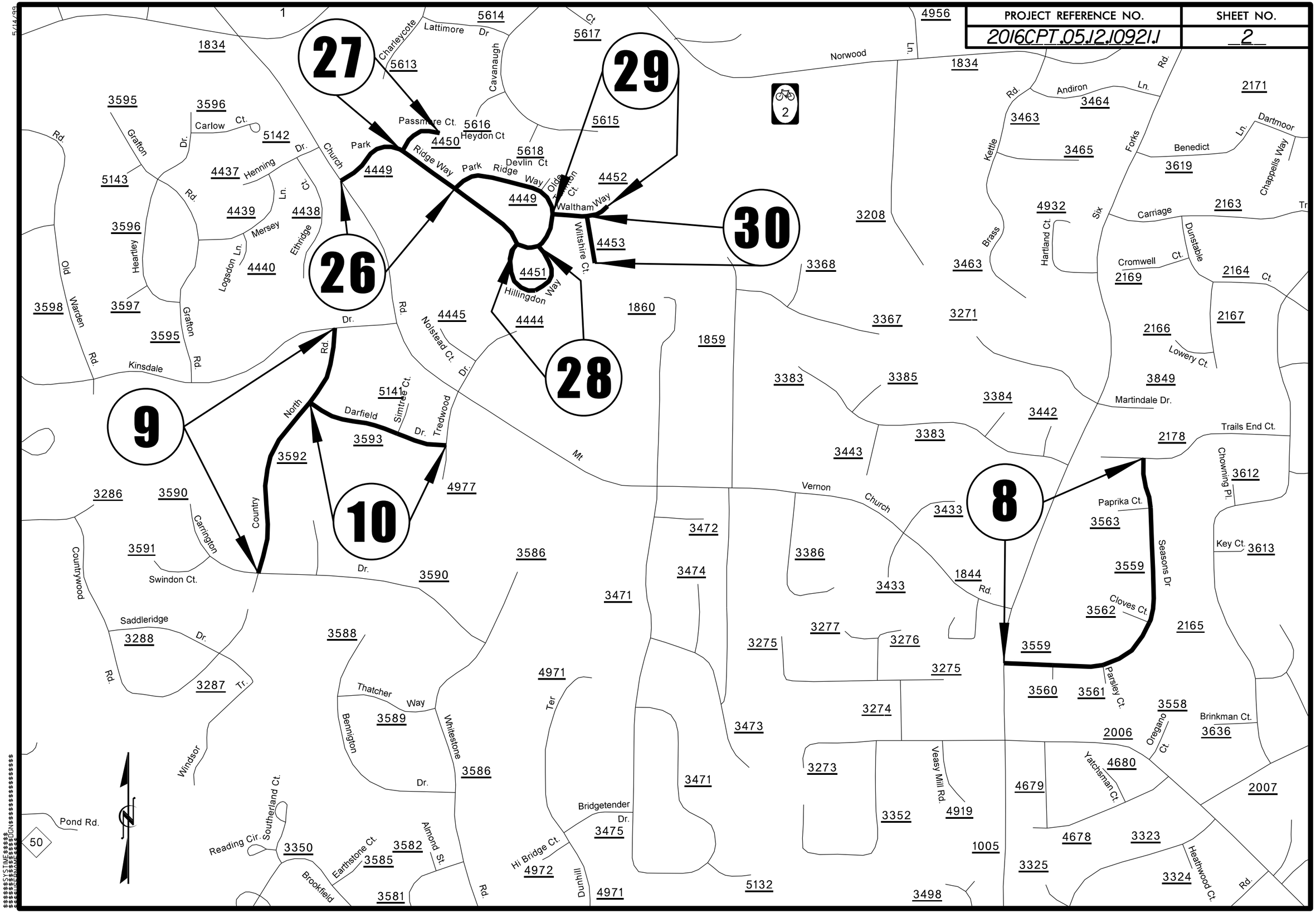

PROJECT REFERENCE NO.	SHEET NO.
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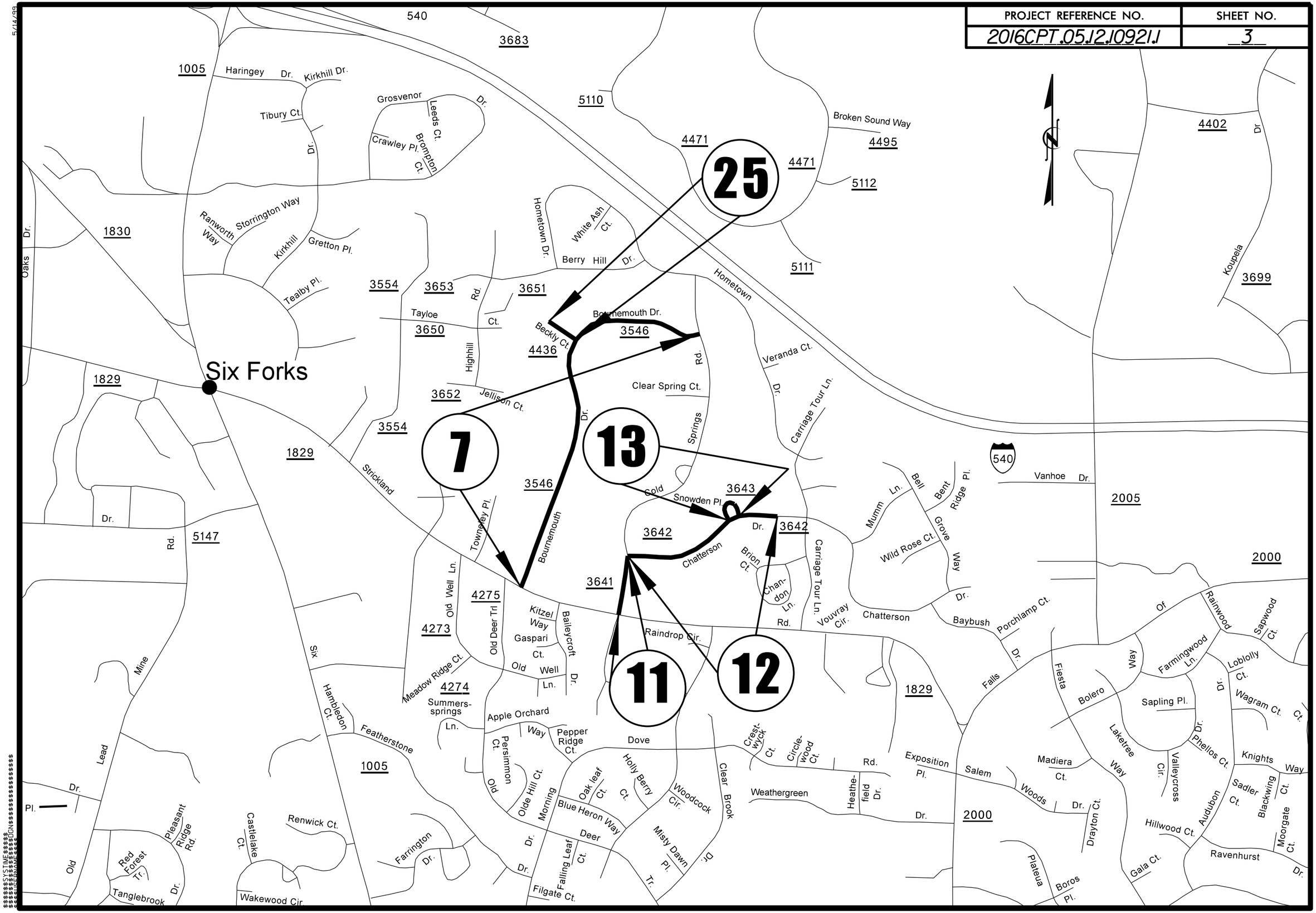

PROJECT REFERENCE NO.	SHEET NO.
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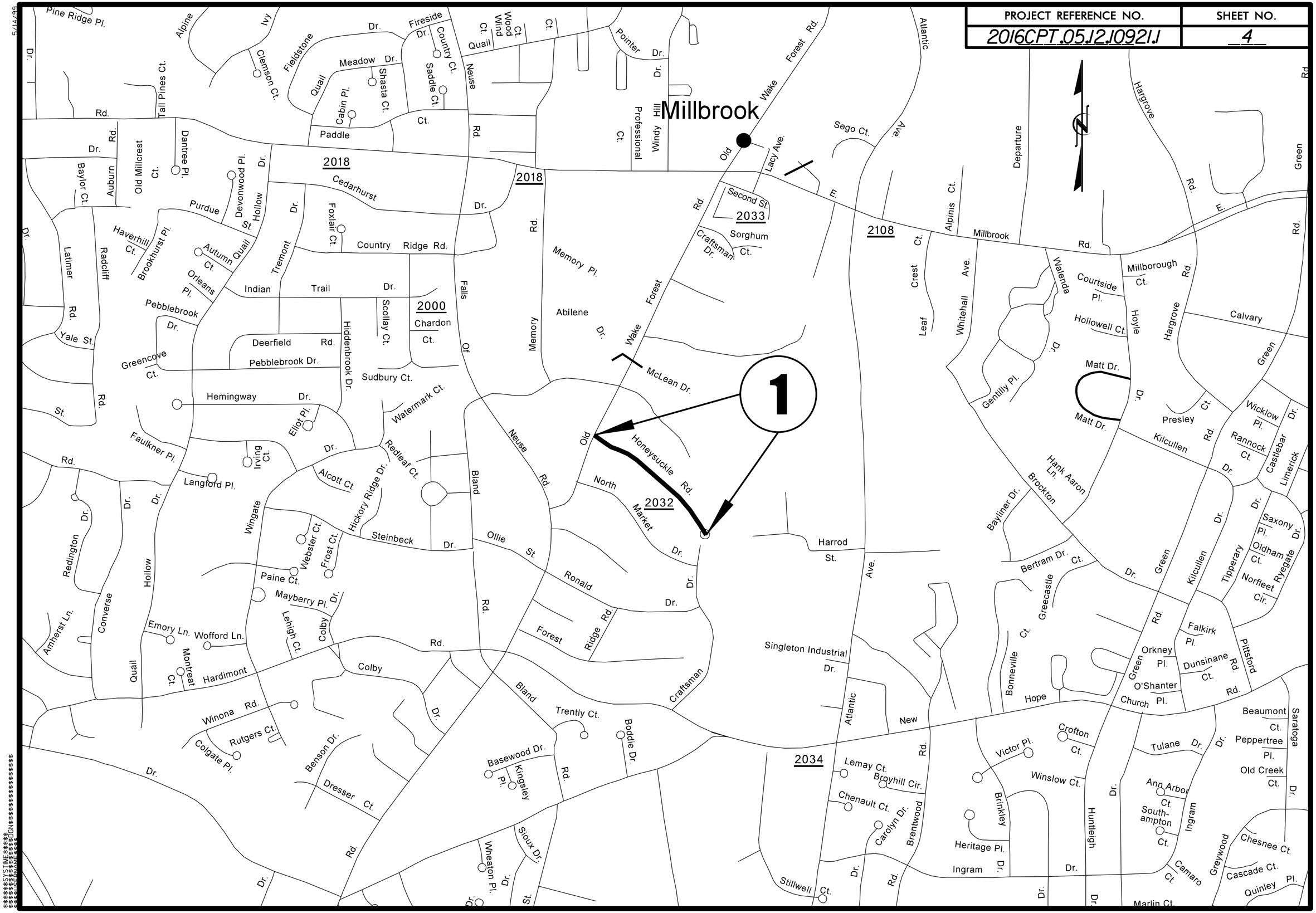
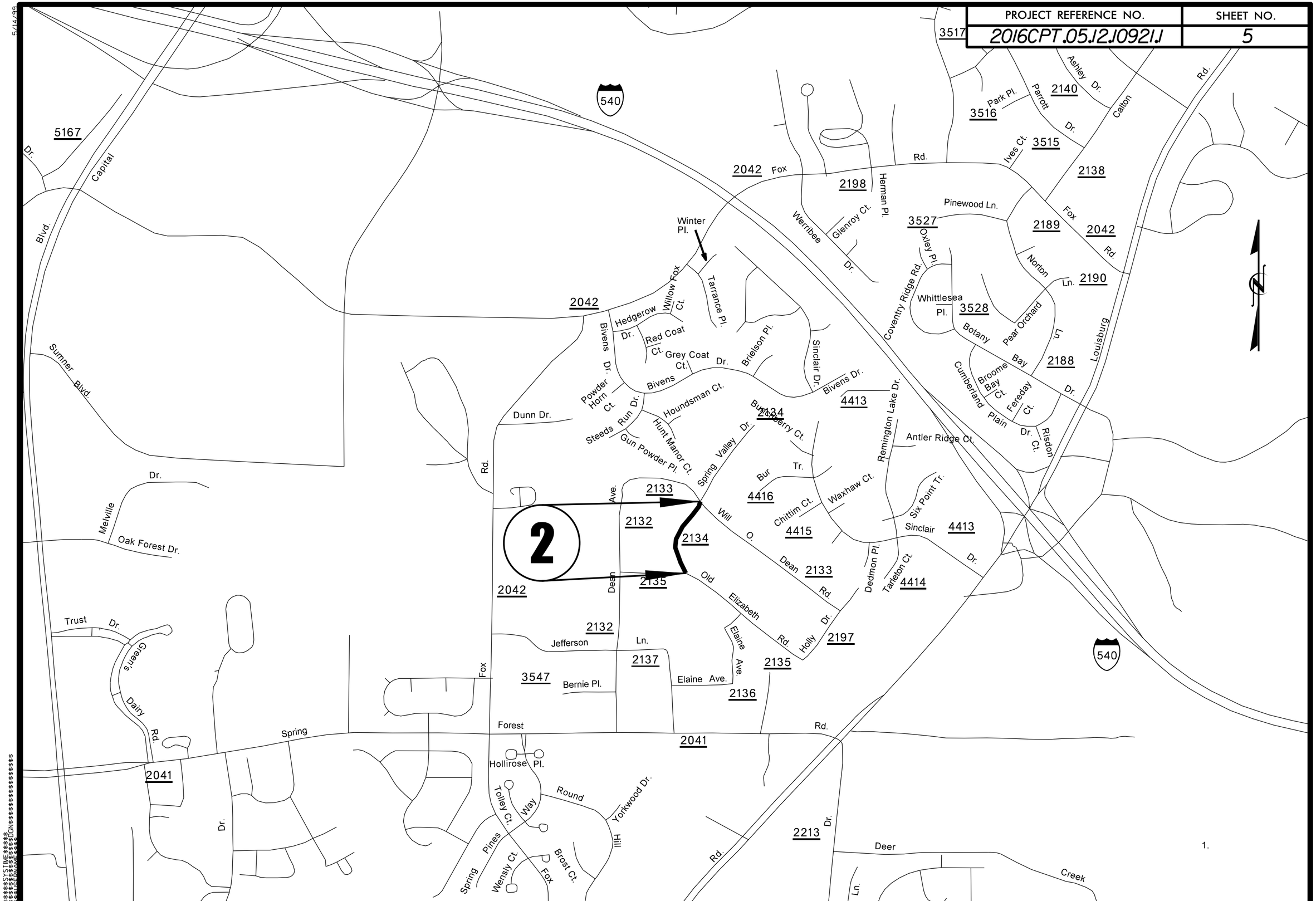
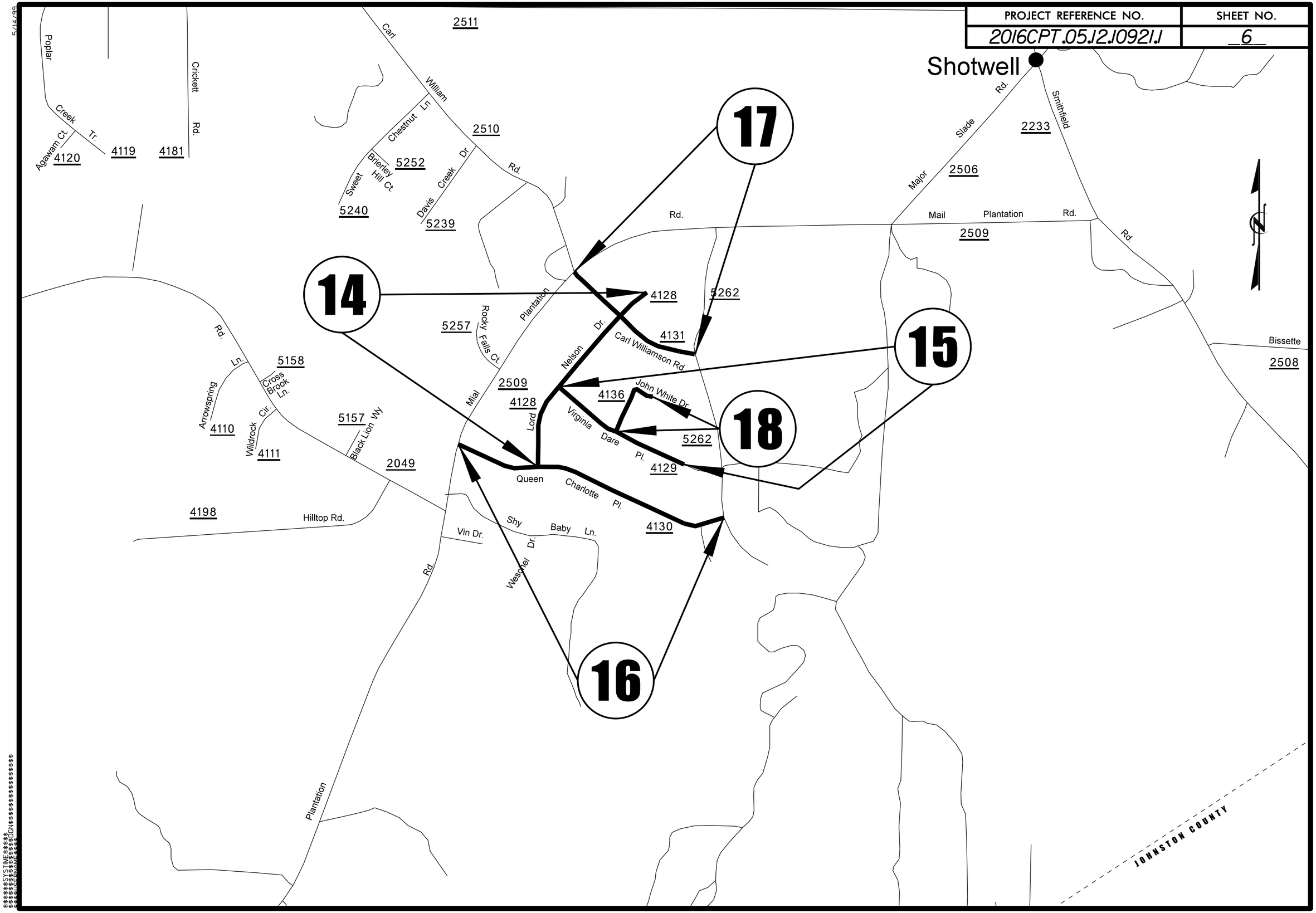


PROJECT REFERENCE NO.	SHEET NO.
2016CPT.05.12.109211	5

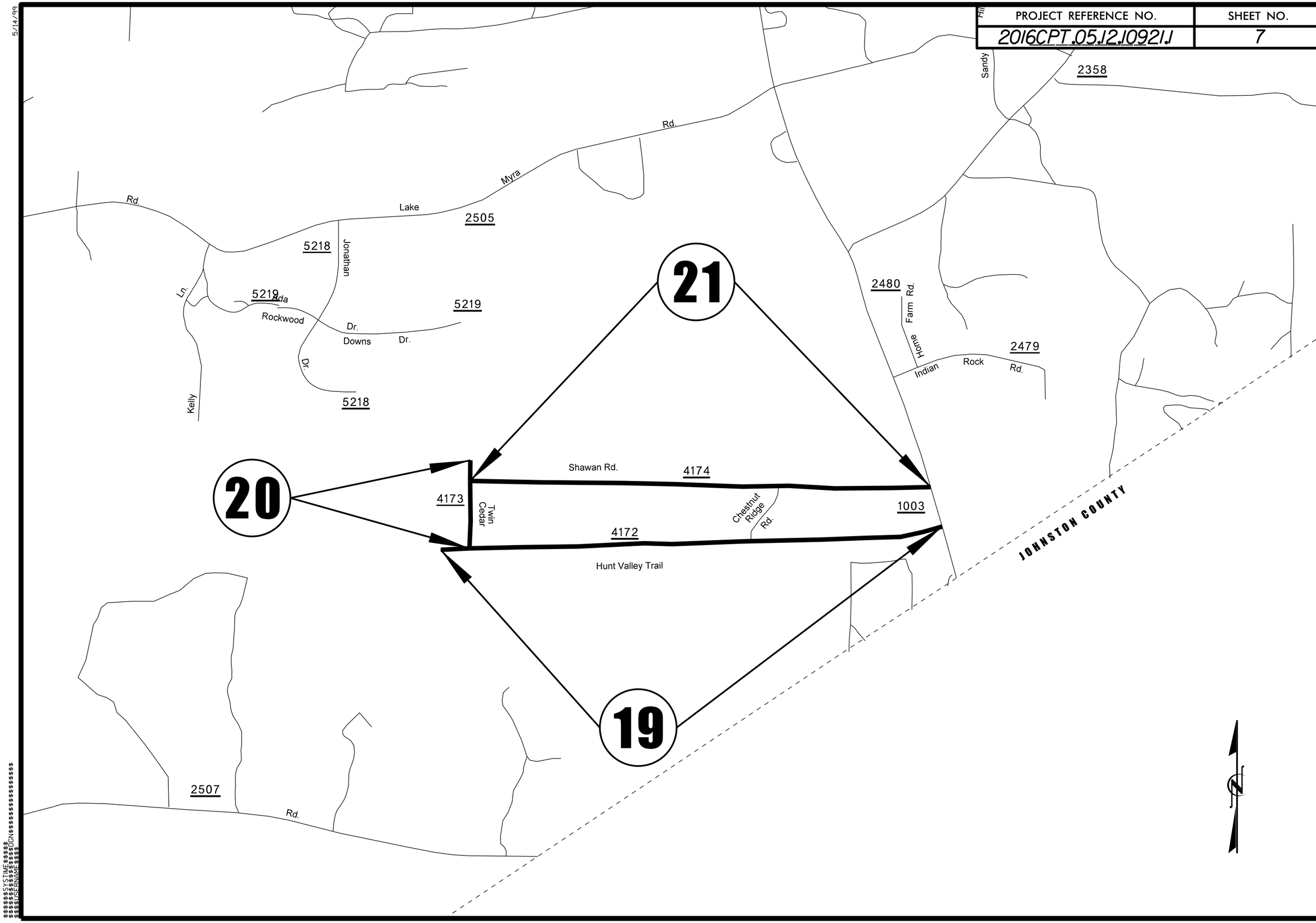


1.

PROJECT REFERENCE NO.	SHEET NO.
2016CPT.05.12.10921.1	6



PROJECT REFERENCE NO.	SHEET NO.
2016CPT.05.12.10921.1	7



5/14/99

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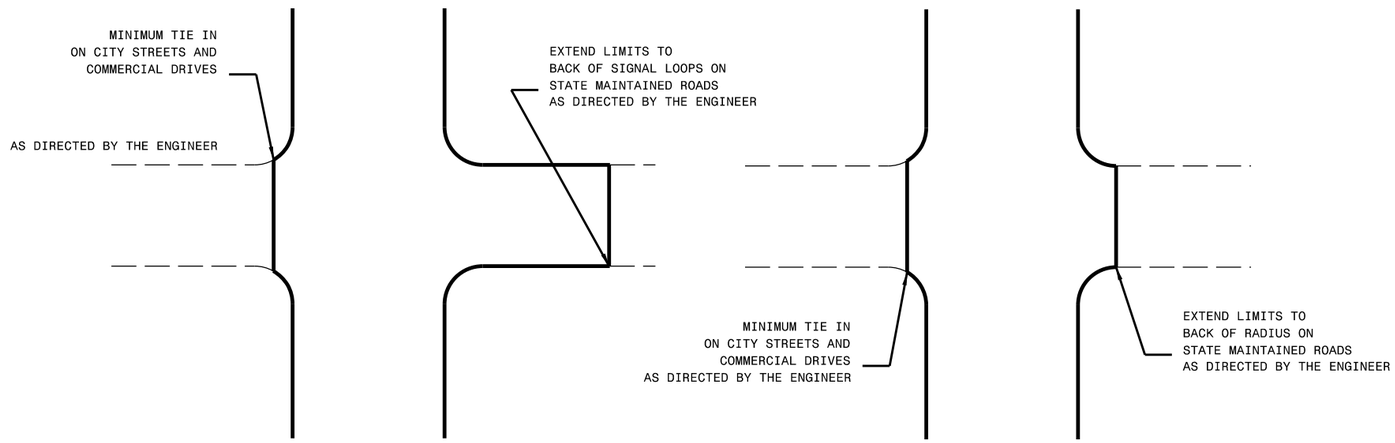
PROJECT REFERENCE NO.	SHEET NO.
2016CPT.05.12.10921.1	8

PAVEMENT SCHEDULE

C	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
U	EXISTING PAVEMENT
V	1½" MILLING

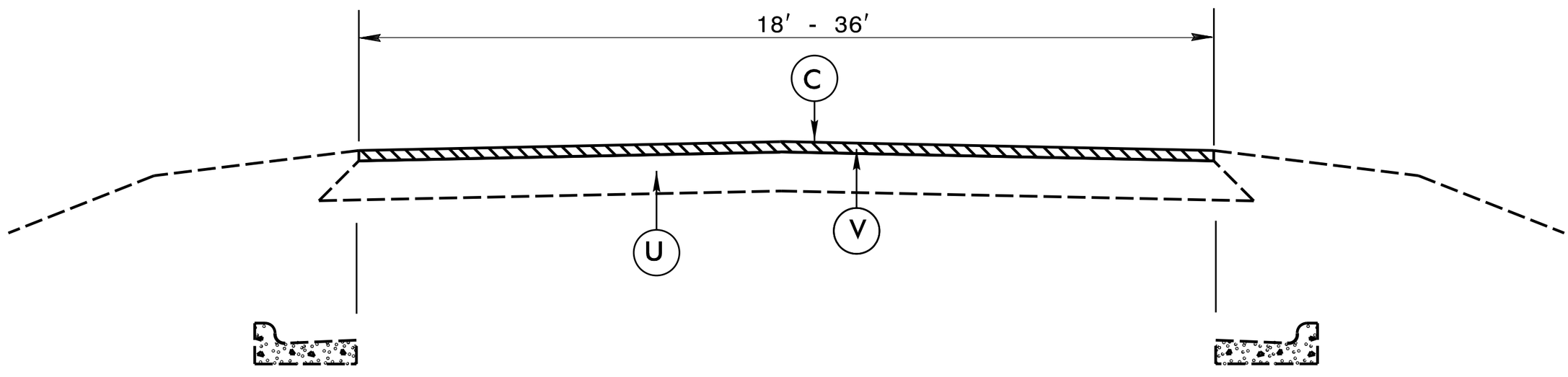
NOTES

ALL UNPAVED S.R. ROADS TO BE RESURFACED 50' FROM EDGE OF PAVEMENT OF MAIN PROJECT
ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII, OR AS DIRECTED BY THE ENGINEER.
EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES.
BRIDGES TO BE RESURFACED AT LOCATIONS AND TO DEPTH AS DIRECTED BY THE ENGINEER.



DETAIL OF PROJECT LIMITS AT SIGNALIZED Y LINES

DETAIL OF PROJECT LIMITS AT UNSIGNALIZED Y LINES



TYPICAL SECTION NO. 1

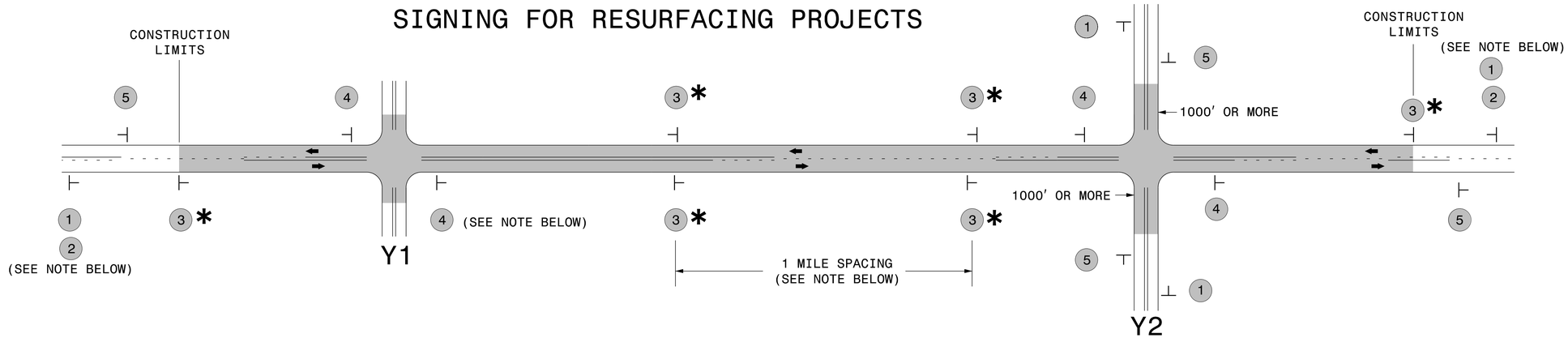
PROJECT NO.	SHEET NO.	TOTAL NO.
2016CPT.05.12.10921.1		

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	INCIDENTAL STONE BASE TONS	1½" MILLING SY	SURFACE COURSE, S9.5B TONS	ASPHALT BINDER FOR PLANT MIX TON
2016CPT.05.12.10921.1	Wake	1	SR 2032 - HONEYSUCKLE RD	SR 2030 TO DEAD END	1	2		NO	NO	0.29	20	14	3,526	307	18
TOTAL FOR MAP NO. 1										**0.29**		**14**	**3,526**	**307**	**18**
2016CPT.05.12.10921.1	Wake	2	SR 2134 - SPRING VALLEY	OLD ELIZABETH TO WILL -O-DEAN	1	2		NO	NO	0.15	20	8	1,760	153	9
TOTAL FOR MAP NO. 2										**0.15**		**8**	**1,760**	**153**	**9**
2016CPT.05.12.10921.1	Wake	3	SR 3428 - TALLWOOD	DURHAM CO TO CUL-DE-SAC	1	2		NO	NO	0.6	20	30	7,426	646	39
TOTAL FOR MAP NO. 3										**0.6**		**30**	**7,426**	**646**	**39**
2016CPT.05.12.10921.1	Wake	4	SR 3429 - ELKWOOD	SR 3428 - CUL-DE-SAC	1	2		NO	NO	0.2	20	10	2,750	239	14
TOTAL FOR MAP NO. 4										**0.2**		**10**	**2,750**	**239**	**14**
2016CPT.05.12.10921.1	Wake	5	SR 3430 - GLENFIELD	SR 3428 TO SR 3431	1	2		NO	NO	0.11	20	6	1,291	112	7
TOTAL FOR MAP NO. 5										**0.11**		**6**	**1,291**	**112**	**7**
2016CPT.05.12.10921.1	Wake	6	SR 3431 - SWISSWOOD	CUL-DE-SAC TO DURHAM CO	1	2		NO	NO	0.98	20	49	11,865	1,033	62
TOTAL FOR MAP NO. 6										**0.98**		**49**	**11,865**	**1,033**	**62**
2016CPT.05.12.10921.1	Wake	7	SR 3546 - BOURNEMOUTH	SR 1829 TO SR 3641	1	2		NO	NO	0.74	20	37	8,683	756	45
TOTAL FOR MAP NO. 7										**0.74**		**37**	**8,683**	**756**	**45**
2016CPT.05.12.10921.1	Wake	8	SR 3559 - SEASONS DR	SR 1005 TO SR 2178	1	2		NO	NO	0.61	20	31	7,157	623	37
TOTAL FOR MAP NO. 8										**0.61**		**31**	**7,157**	**623**	**37**
2016CPT.05.12.10921.1	Wake	9	SR 3592 - COUNTRYWOOD RD	SR 3590 TO SR 3594	1	2		NO	NO	0.5	18	25	5,280	460	28
TOTAL FOR MAP NO. 9										**0.5**		**25**	**5,280**	**460**	**28**
2016CPT.05.12.10921.1	Wake	10	SR 3593 - DARFIELD DR	SR 3592 TO SR 4977	1	2		NO	NO	0.27	18	14	2,851	248	15
TOTAL FOR MAP NO. 10										**0.27**		**14**	**2,851**	**248**	**15**
2016CPT.05.12.10921.1	Wake	11	SR 3641- COLD SPRINGS DR	SR 1829 TO SR 3642	1	2		NO	NO	0.11	36		2,323	202	12
TOTAL FOR MAP NO. 11										**0.11**			**2,323**	**202**	**12**
2016CPT.05.12.10921.1	Wake	12	SR 3642 - CHATTERSON DR	SR 3641 TO END C&G	1	2		NO	NO	0.36	24		5,069	441	26
TOTAL FOR MAP NO. 12										**0.36**			**5,069**	**441**	**26**
2016CPT.05.12.10921.1	Wake	13	SR 3643 - SNOWDEN PLACE	SR 3642 TO SR 3642	1	2		NO	NO	0.07	24		986	86	5
TOTAL FOR MAP NO. 13										**0.07**			**986**	**86**	**5**
2016CPT.05.12.10921.1	Wake	14	SR 4128 - LORD NELSON	SR 4130 TO EOM	1	2		NO	NO	0.41	20	21	5,141	447	27
TOTAL FOR MAP NO. 14										**0.41**		**21**	**5,141**	**447**	**27**
2016CPT.05.12.10921.1	Wake	15	SR 4129 - VIRGINIA DARE	SR 4128 TO PVMT CHG	1	2		NO	NO	0.42	20	21	4,928	429	26
TOTAL FOR MAP NO. 15										**0.42**		**21**	**4,928**	**429**	**26**
2016CPT.05.12.10921.1	Wake	16	SR 4130 - QUEEN CHARLOTTE	SR 2509 TO SR 5262	1	2		NO	NO	0.53	20	27	6,219	541	32
TOTAL FOR MAP NO. 16										**0.53**		**27**	**6,219**	**541**	**32**
2016CPT.05.12.10921.1	Wake	17	SR 4131 - CARL WILLIAMSON	SR 2509 TO SR 5262	1	2		NO	NO	0.28	20	14	3,285	286	17
TOTAL FOR MAP NO. 17										**0.28**		**14**	**3,285**	**286**	**17**
2016CPT.05.12.10921.1	Wake	18	SR 4136 - JOHN WHITE	SR 4129 TO EOM	1	2		NO	NO	0.12	20	6	2,013	175	10
TOTAL FOR MAP NO. 18										**0.12**		**6**	**2,013**	**175**	**10**
2016CPT.05.12.10921.1	Wake	19	SR 4172 - HUNT VALLEY TRAIL	SR 1003 TO DEAD END	1	2		NO	NO	0.93	18	47	9,821	856	51
TOTAL FOR MAP NO. 19										**0.93**		**47**	**9,821**	**856**	**51**
2016CPT.05.12.10921.1	Wake	20	SR 4173 - TWIN CEDAR	SR 4172 TO DEAD END	1	2		NO	NO	0.16	18	8	1,690	147	9
TOTAL FOR MAP NO. 20										**0.16**		**8**	**1,690**	**147**	**9**
2016CPT.05.12.10921.1	Wake	21	SR 4174 - SHAWAN RD	SR 1003 TO SR 4173	1	2		NO	NO	0.85	18	43	8,976	782	47
TOTAL FOR MAP NO. 21										**0.85**		**43**	**8,976**	**782**	**47**
2016CPT.05.12.10921.1	Wake	22	SR 4268 - REGALWOOD	SR 3431 TO SR 4269	1	2		NO	NO	0.54	18	27	5,702	497	30
TOTAL FOR MAP NO. 22										**0.54**		**27**	**5,702**	**497**	**30**
2016CPT.05.12.10921.1	Wake	23	SR 4269 - HIGHVIEW	SR 4281 TO CUL-DE-SAC	1	2		NO	NO	0.19	18	10	2,328	203	12
TOTAL FOR MAP NO. 23										**0.19**		**10**	**2,328**	**203**	**12**
2016CPT.05.12.10921.1	Wake	24	SR 4281 - BARTWOOD	SR 3431 TO CUL-DE-SAC	1	2		NO	NO	0.67	18	34	7,371	642	39
TOTAL FOR MAP NO. 24										**0.67**		**34**	**7,371**	**642**	**39**
2016CPT.05.12.10921.1	Wake	25	SR 4436 - BECKLEY	SR 3546 TO CUL-DE-SAC	1	2		NO	NO	0.06	20	3	976	85	5
TOTAL FOR MAP NO. 25										**0.06**		**3**	**976**	**85**	**5**
2016CPT.05.12.10921.1	Wake	26	SR 4449 - PARK RIDGE WAY	SR 1844 - TO SR 4449	1	2		NO	NO	0.75	20	38	8,800	766	46
TOTAL FOR MAP NO. 26										**0.75**		**38**	**8,800**	**766**	**46**
2016CPT.05.12.10921.1	Wake	27	SR 4450 - PASSMORE CT	SR 4449 TO CUL-DE-SAC	1	2		NO	NO	0.09	20	5	1,392	121	7
TOTAL FOR MAP NO. 27										**0.09**		**5**	**1,392**	**121**	**7**
2016CPT.05.12.10921.1	Wake	28	SR 4451 - HILLINGDON WAY	SR 4449 TO SR 4449	1	2		NO	NO	0.23	20	12	2,699	235	14
TOTAL FOR MAP NO. 28										**0.23**		**12**	**2,699**	**235**	**14**
2016CPT.05.12.10921.1	Wake	29	SR 4452 - WALTHAM WAY	SR 4449 TO CUL-DE-SAC	1	2		NO	NO	0.1	20	5	1,457	127	8
TOTAL FOR MAP NO. 29										**0.1**		**5**	**1,457**	**127**	**8**
2016CPT.05.12.10921.1	Wake	30	SR 4453 - WILTSHIRE CT	SR 4452 TO CUL-DE-SAC	1	2		NO	NO	0.09	20	5	1,392	121	7
TOTAL FOR MAP NO. 30										**0.09**		**5**	**1,392**	**121**	**7**
TOTAL FOR PROJ NO. 2016CPT.05.12.10921.1										**11.41**		**550**	**135,157**	**11,766**	**704**
GRAND TOTAL										**11.41**		**550**	**135,157**	**11,766**	**704**

PROJ. REFERENCE NO.	SHEET NO.

SIGNING FOR RESURFACING PROJECTS



LEGEND

⊢ STATIONARY SIGN

⬅ DIRECTION OF TRAFFIC FLOW

SIGNING NOTES AND PLACEMENT PER DIRECTION

MAINLINE (-L-) SIGNING

1	ROAD WORK AHEAD W20-1 48″ X 48″	PLACE 1000′ PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000′ ALONG -Y- LINE.
2	NEXT XX MILES W7-3aP 24″ X 18″	#2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER.(NO FRACTIONAL OR DECIMAL NUMBERS)
3 *	LOW/SOFT SHOULDER SP 13107 48″ X 48″	PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET ½ MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.
4	ROAD UNDER CONST SP 13106 48″ X 48″	THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. INSTALL 500′ +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500′ OF EACH APPROACH. A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.
5	END ROAD WORK G20-2 A 48″ X 24″	PLACE 500′ FOLLOWING THE END OF CONSTRUCTION LIMITS.

-Y- LINE SIGNING

NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:

1) LESS THAN 1000′ OF RESURFACING ALONG -Y- LINE
2) SUBDIVISION ROADS
3) DEAD END ROADS

WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.

ROAD WORK AHEAD
W20-1
48″ X 48″

PLACED 500′ IN ADVANCE OF FLAGGER.

W20-7 A
48″ X 48″

PLACED 250′ IN ADVANCE OF FLAGGER.

* SIGNING FOR ASPHALT SURFACE TREATMENTS (ONLY)

SUBSTITUTE LOW/SOFT SHOULDER SIGNS BY ALTERNATING THE FOLLOWING TWO SIGNS:
STARTING WITH "UNMARKED PAVEMENT AHEAD" (SP 06026) FOLLOWED BY "LOOSE GRAVEL" (W8-7).

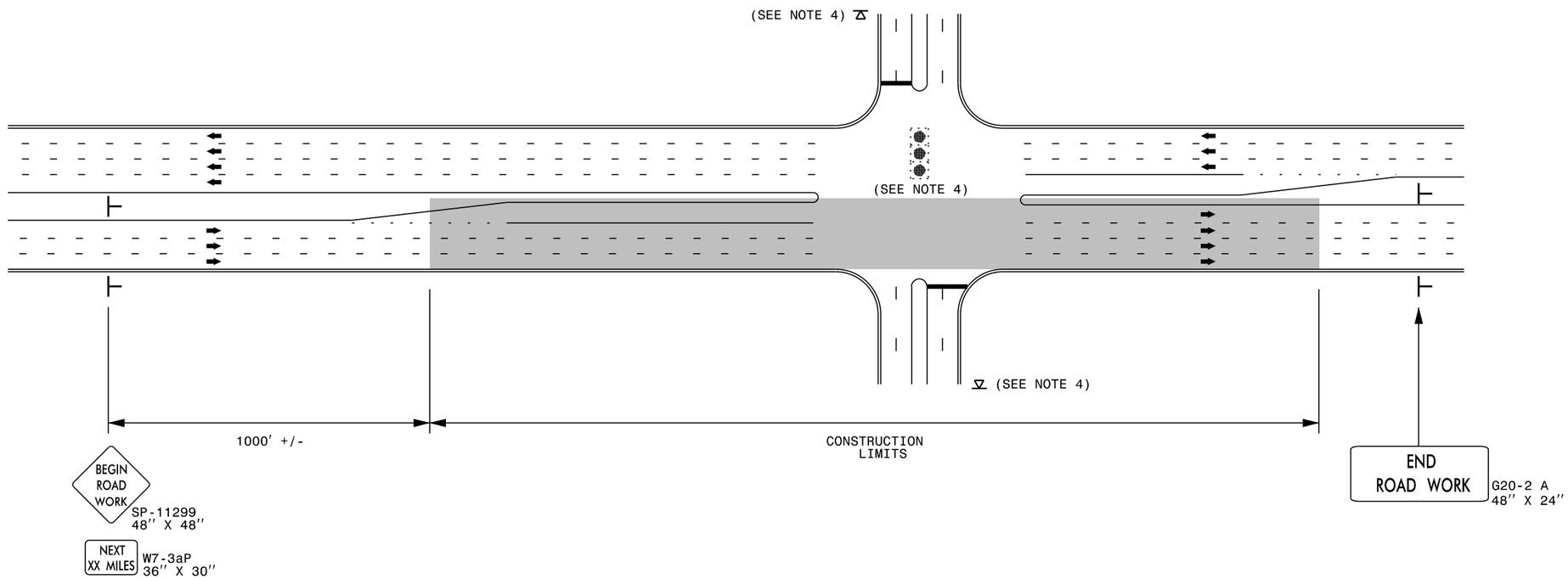
DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

RESURFACING
ADVANCE WARNING SIGNS
FOR
RURAL AND SUBURBAN
2 LANE ROADWAYS

6/3/2014
S:\TMU\WZTC\Apps\WorkZoneGeneral\ExternalWebPage\DesRes\Documents\Resurfacing\Resurfacing_AdvWarn_2Ln.dgn
User:rmgarrett

PROJ. REFERENCE NO.	SHEET NO.

URBAN / SUBURBAN WORKZONES



NOTES:

1) 48" x 48" SIZED SIGNS (SP- 11299) MAY BE REDUCED TO 36" X 36" ON ROADWAYS WITH SPEED LIMITS OF 40 MPH OR LESS.
2) MOUNT SIGNS THAT ARE LARGER THAN 10 SQUARE FEET IN AREA ON TWO OR MORE WOOD OR U-CHANNEL SUPPORTS. PERFORATED SQUARE TUBING SUPPORT SYSTEMS MAY SUPPORT LARGER AREAS ON A SINGLE SUPPORT. FOLLOW MANUFACTURER'S RECOMMENDATIONS. THESE SYSTEMS SHALL BE NCHRP 350 COMPLIANT AND NCDOT APPROVED.
3) ADVANCE WARNING SIGNS NOT REQUIRED ON NON-SIGNALIZED SIDE STREETS.
4) MAY USE LAW ENFORCEMENT TO CONTROL TRAFFIC AT SIGNALIZED INTERSECTIONS AS DIRECTED BY THE ENGINEER. PROVIDE PORTABLE "ROAD WORK AHEAD" (W20-1) SIGNS 500' IN ADVANCE ALONG BOTH APPROACHES FROM THE SIDE STREETS WHEN PAVING PROCEEDS THROUGH THE INTERSECTION.
5) LATERAL CLEARANCE AT ALL SIGN LOCATIONS SHALL BE 2' AS MEASURED FROM THE EDGE OF PAVEMENT OR THE FACE OF THE CURB. WHEN UNABLE TO OBTAIN THE LATERAL CLEARANCE WITHIN THE MEDIAN AREA USE SHOULDER MOUNTS ONLY.
6) SIGN MOUNT LOCATIONS SHALL NOT BLOCK SIDEWALKS OR DRIVEWAYS.
7) IF STATIONARY GENERAL WARNING SIGNS ARE USED, THEY WILL BE PAID FOR PER SECTION 104 OF THE NCDOT STANDARD SPECIFICATIONS AS EXTRA WORK.
8) IF MILLED AREAS ARE NOT PAVED BACK BY THE END OF THE WORK DAY, PORTABLE SIGNS SHALL BE USED TO WARN DRIVERS OF THE PRESENT CONDITIONS. THESE ARE TO INCLUDE, BUT NOT LIMITED TO "ROUGH ROAD" W8-8, "UNEVEN LANES" W8-11, "GROOVED PAVEMENT" W8-15 w/MOTORCYCLE PLAQUE MOUNTED BELOW. THESE ARE TO BE DOUBLE INDICATED ON MULTI-LANE ROADWAYS WITH SPEED LIMITS 45 MPH AND GREATER WHERE LATERAL CLEARANCE CAN BE OBTAINED WITHIN THE MEDIAN AREAS.THESE PORTABLE SIGNS ARE INCIDENTAL TO THE OTHER ITEMS OF WORK INCLUDED IN THE TEMPORARY TRAFFIC CONTROL (LUMP SUM) PAY ITEM.

LEGEND

⊢ STATIONARY SIGN

➡ DIRECTION OF TRAFFIC FLOW

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

RESURFACING ADVANCE WARNING SIGNS FOR URBAN / SUBURBAN FACILITIES

2/24/2014
S:\TMU\WZTC\Resurfacing\2013Resurfacing\2013Documents\New_Procedures_05_09_2013\Resurfacing_AdvWarn_Ur-Su.dgn