

PERMANENT WAY
NOTES.

OFFSETS (3)

305'-500'
RADIUS

RADIUS R	T A N G E N T L E N G T H (T)										RAD F
	10'	20'	30'	40'	50'	60'	70'	80'	90'	100'	
305'	2"	8"	1'-5 ³ / ₄ "	2'-7 ³ / ₄ "	4'-1 ¹ / ₂ "	5'-11 ¹ / ₂ "	8'-1 ³ / ₄ "	10'-8 ¹ / ₄ "	13'-7"	16'-10 ¹ / ₄ "	30
310'	2"	7 ³ / ₄ "	1'-5 ¹ / ₂ "	2'-7"	4'-0 ³ / ₄ "	5'-10 ¹ / ₄ "	8'-0"	10'-6"	13'-4 ¹ / ₄ "	16'-7"	31
315'	2"	7 ³ / ₄ "	1'-5 ¹ / ₄ "	2'-6 ¹ / ₂ "	4'-0"	5'-9 ¹ / ₄ "	7'-10 ¹ / ₂ "	10'-4"	13'-1 ¹ / ₂ "	16'-3 ¹ / ₂ "	31
320'	2"	7 ¹ / ₂ "	1'-5"	2'-6"	3'-11 ¹ / ₄ "	5'-8 ¹ / ₄ "	7'-9"	10'-2"	12'-11"	16'-0 ¹ / ₄ "	32
325'	2"	7 ¹ / ₄ "	1'-4 ³ / ₄ "	2'-5 ³ / ₄ "	3'-10 ¹ / ₂ "	5'-7"	7'-7 ¹ / ₂ "	10'-0"	12'-8 ¹ / ₂ "	15'-9 ¹ / ₄ "	32
330'	1 ³ / ₄ "	7 ¹ / ₄ "	1'-4 ¹ / ₂ "	2'-5 ¹ / ₄ "	3'-9 ³ / ₄ "	5'-6"	7'-6"	9'-10"	12'-6"	15'-6 ¹ / ₄ "	33
335'	1 ³ / ₄ "	7 ¹ / ₄ "	1'-4 ³ / ₄ "	2'-4 ³ / ₄ "	3'-9"	5'-5"	7'-4 ³ / ₄ "	9'-8 ¹ / ₂ "	12'-3 ³ / ₄ "	15'-3 ¹ / ₄ "	33
340'	1 ³ / ₄ "	7"	1'-4"	2'-4 ¹ / ₄ "	3'-8 ¹ / ₂ "	5'-4"	7'-3 ¹ / ₂ "	9'-6 ¹ / ₂ "	12'-1 ¹ / ₂ "	15'-0 ¹ / ₂ "	34
345'	1 ³ / ₄ "	7"	1'-3 ³ / ₄ "	2'-4"	3'-7 ³ / ₄ "	5'-3"	7'-2 ¹ / ₄ "	9'-4 ³ / ₄ "	11'-11 ¹ / ₄ "	14'-9 ³ / ₄ "	34
350'	1 ³ / ₄ "	7"	1'-3 ¹ / ₂ "	2'-3 ¹ / ₂ "	3'-7"	5'-2 ¹ / ₄ "	7'-1"	9'-3 ¹ / ₄ "	11'-9 ¹ / ₄ "	14'-7"	35
355'	1 ³ / ₄ "	6 ³ / ₄ "	1'-3 ¹ / ₄ "	2'-3"	3'-6 ¹ / ₂ "	5'-1 ¹ / ₄ "	6'-11 ¹ / ₄ "	9'-1 ³ / ₄ "	11'-7 ¹ / ₄ "	14'-4 ¹ / ₂ "	35
360'	1 ³ / ₄ "	6 ³ / ₄ "	1'-3"	2'-2 ³ / ₄ "	3'-6"	5'-0 ¹ / ₂ "	6'-10 ¹ / ₂ "	9'-0"	11'-5 ¹ / ₄ "	14'-2"	36
365'	1 ³ / ₄ "	6 ¹ / ₂ "	1'-3"	2'-2 ¹ / ₂ "	3'-5 ¹ / ₄ "	4'-11 ¹ / ₂ "	6'-9 ¹ / ₄ "	8'-10 ¹ / ₂ "	11'-3 ¹ / ₄ "	13'-11 ¹ / ₂ "	36
370'	1 ³ / ₄ "	6 ¹ / ₂ "	1'-2 ³ / ₄ "	2'-2"	3'-4 ³ / ₄ "	4'-10 ³ / ₄ "	6'-8 ¹ / ₄ "	8'-9"	11'-1 ¹ / ₂ "	13'-9 ¹ / ₄ "	37
375'	1 ³ / ₄ "	6 ¹ / ₂ "	1'-2 ¹ / ₂ "	2'-1 ³ / ₄ "	3'-4 ¹ / ₄ "	4'-10"	6'-7"	8'-7 ¹ / ₂ "	10'-11 ¹ / ₂ "	13'-7"	37
380'	1 ¹ / ₂ "	6 ¹ / ₄ "	1'-2 ¹ / ₄ "	2'-1 ¹ / ₂ "	3'-3 ³ / ₄ "	4'-9 ¹ / ₄ "	6'-6"	8'-6 ¹ / ₄ "	10'-9 ³ / ₄ "	13'-4 ³ / ₄ "	38
385'	1 ¹ / ₂ "	6 ¹ / ₄ "	1'-2"	2'-1"	3'-3 ¹ / ₄ "	4'-8 ¹ / ₂ "	6'-5"	8'-4 ³ / ₄ "	10'-8"	13'-2 ³ / ₄ "	38
390'	1 ¹ / ₂ "	6"	1'-2"	2'-0 ³ / ₄ "	3'-2 ³ / ₄ "	4'-7 ³ / ₄ "	6'-4"	8'-3 ¹ / ₂ "	10'-6 ¹ / ₄ "	13'-0 ¹ / ₂ "	39
395'	1 ¹ / ₂ "	6"	1'-1 ³ / ₄ "	2'-0 ¹ / ₂ "	3'-2 ¹ / ₄ "	4'-7"	6'-3"	8'-2 ¹ / ₄ "	10'-4 ³ / ₄ "	12'-10 ¹ / ₂ "	39
400'	1 ¹ / ₂ "	6"	1'-1 ¹ / ₂ "	2'-0"	3'-1 ³ / ₄ "	4'-6 ¹ / ₄ "	6'-2 ¹ / ₄ "	8'-1"	10'-3"	12'-8 ¹ / ₂ "	40
405'	1 ¹ / ₂ "	6"	1'-1 ¹ / ₂ "	1'-11 ³ / ₄ "	3'-1 ¹ / ₄ "	4'-5 ³ / ₄ "	6'-1 ¹ / ₄ "	7'-11 ¹ / ₄ "	10'-1 ¹ / ₂ "	12'-6 ¹ / ₂ "	40
410'	1 ¹ / ₂ "	6"	1'-1 ¹ / ₄ "	1'-11 ¹ / ₂ "	3'-0 ³ / ₄ "	4'-5"	6'-0 ¹ / ₄ "	7'-10 ¹ / ₂ "	10'-0"	12'-4 ¹ / ₂ "	41
415'	1 ¹ / ₂ "	5 ³ / ₄ "	1'-1"	1'-11 ¹ / ₄ "	3'-0 ¹ / ₄ "	4'-4 ¹ / ₄ "	5'-11 ¹ / ₂ "	7'-9 ¹ / ₄ "	9'-10 ¹ / ₂ "	12'-2 ³ / ₄ "	41
420'	1 ¹ / ₂ "	5 ³ / ₄ "	1'-1"	1'-11"	3'-0"	4'-3 ³ / ₄ "	5'-10 ¹ / ₂ "	7'-8 ¹ / ₄ "	9'-9"	12'-1"	42
425'	1 ¹ / ₂ "	5 ³ / ₄ "	1'-0 ³ / ₄ "	1'-10 ¹ / ₂ "	2'-11 ¹ / ₂ "	4'-3"	5'-9 ³ / ₄ "	7'-7 ¹ / ₄ "	9'-7 ³ / ₄ "	11'-11 ¹ / ₄ "	42
430'	1 ¹ / ₂ "	5 ³ / ₄ "	1'-0 ¹ / ₂ "	1'-10 ¹ / ₄ "	2'-11"	4'-2 ¹ / ₂ "	5'-9"	7'-6"	9'-6 ¹ / ₄ "	11'-9 ¹ / ₂ "	43
435'	1 ¹ / ₂ "	5 ¹ / ₂ "	1'-0 ¹ / ₂ "	1'-10"	2'-10 ¹ / ₂ "	4'-2"	5'-8"	7'-5"	9'-5"	11'-7 ³ / ₄ "	43
440'	1 ¹ / ₂ "	5 ¹ / ₂ "	1'-0 ¹ / ₄ "	1'-9 ³ / ₄ "	2'-10 ¹ / ₄ "	4'-1 ¹ / ₄ "	5'-7 ¹ / ₄ "	7'-4"	9'-3 ¹ / ₂ "	11'-6 ¹ / ₄ "	44
445'	1 ¹ / ₂ "	5 ¹ / ₂ "	1'-0 ¹ / ₄ "	1'-9 ¹ / ₂ "	2'-9 ³ / ₄ "	4'-0 ³ / ₄ "	5'-6 ¹ / ₂ "	7'-3"	9'-2 ¹ / ₂ "	11'-4 ¹ / ₂ "	44
450'	1 ¹ / ₄ "	5 ¹ / ₄ "	1'-0"	1'-9 ¹ / ₂ "	2'-9 ¹ / ₂ "	4'-0 ¹ / ₄ "	5'-5 ³ / ₄ "	7'-2"	9'-1"	11'-3"	44
455'	1 ¹ / ₄ "	5 ¹ / ₄ "	1'-0"	1'-9 ¹ / ₄ "	2'-9"	3'-11 ¹ / ₄ "	5'-5"	7'-1"	9'-0"	11'-1 ¹ / ₂ "	45
460'	1 ¹ / ₄ "	5 ¹ / ₄ "	11 ³ / ₄ "	1'-9"	2'-8 ³ / ₄ "	3'-11 ¹ / ₄ "	5'-4 ¹ / ₄ "	7'-0"	8'-10 ³ / ₄ "	11'-0"	46
465'	1 ¹ / ₄ "	5 ¹ / ₄ "	11 ³ / ₄ "	1'-8 ³ / ₄ "	2'-8 ¹ / ₂ "	3'-10 ³ / ₄ "	5'-3 ¹ / ₂ "	6'-11 ¹ / ₄ "	8'-9 ¹ / ₂ "	10'-10 ¹ / ₂ "	46
470'	1 ¹ / ₄ "	5 ¹ / ₄ "	11 ¹ / ₂ "	1'-8 ¹ / ₂ "	2'-8"	3'-10 ¹ / ₄ "	5'-3"	6'-10 ¹ / ₄ "	8'-8 ¹ / ₂ "	10'-9"	47
475'	1 ¹ / ₄ "	5"	11 ¹ / ₂ "	1'-8 ¹ / ₄ "	2'-7 ³ / ₄ "	3'-9 ³ / ₄ "	5'-2 ¹ / ₄ "	6'-9 ¹ / ₂ "	8'-7 ¹ / ₄ "	10'-7 ³ / ₄ "	47
480'	1 ¹ / ₄ "	5"	11 ¹ / ₄ "	1'-8"	2'-7 ¹ / ₂ "	3'-9 ¹ / ₄ "	5'-1 ³ / ₄ "	6'-8 ³ / ₄ "	8'-6 ¹ / ₄ "	10'-6 ¹ / ₂ "	48
485'	1 ¹ / ₄ "	5"	11 ¹ / ₄ "	1'-8"	2'-7"	3'-8 ³ / ₄ "	5'-1"	6'-7 ³ / ₄ "	8'-5"	10'-5"	48
490'	1 ¹ / ₄ "	5"	11"	1'-7 ³ / ₄ "	2'-6 ³ / ₄ "	3'-8 ¹ / ₄ "	5'-0 ¹ / ₄ "	6'-7"	8'-4"	10'-3 ³ / ₄ "	49
495'	1 ¹ / ₄ "	4 ³ / ₄ "	11"	1'-7 ¹ / ₂ "	2'-6 ¹ / ₂ "	3'-7 ³ / ₄ "	4'-11 ¹ / ₄ "	6'-6 ¹ / ₄ "	8'-3"	10'-2 ¹ / ₂ "	49
500'	1 ¹ / ₄ "	4 ³ / ₄ "	10 ³ / ₄ "	1'-7 ¹ / ₄ "	2'-6"	3'-7 ¹ / ₂ "	4'-11"	6'-5 ¹ / ₄ "	8'-2"	10'-1 ¹ / ₄ "	50