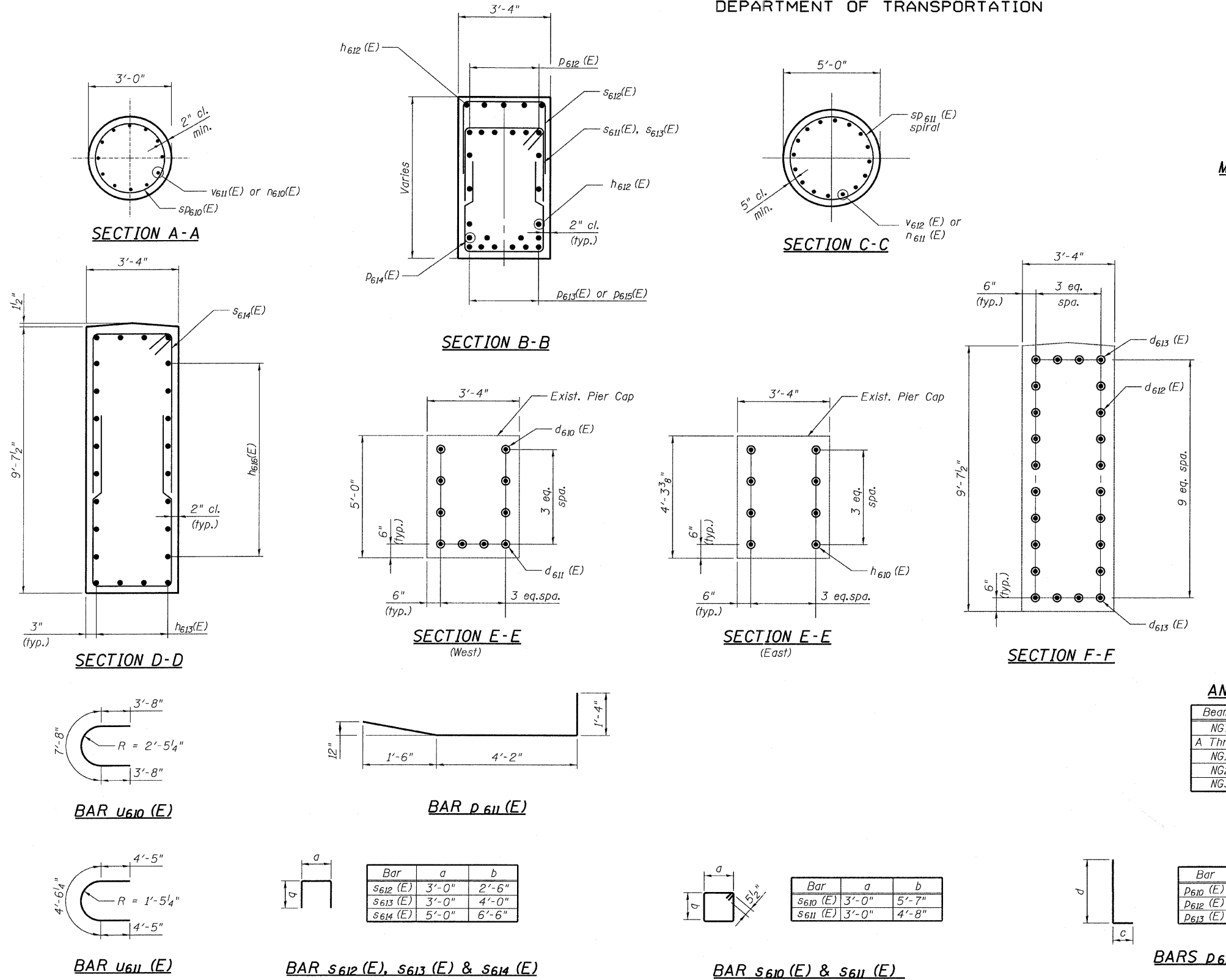


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



MINIMUM BAR LAPS

Bar Size	Min. Lap
#5	3'-3"
#6	3'-1"
#9	6'-10"

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d610 (E)	6	#5	5'-4"	—
d611 (E)	4	#8	7'-11"	—
d612 (E)	32	#5	2'-6"	—
d613 (E)	16	#9	5'-7"	—
h610 (E)	8	#5	4'-9"	—
h611 (E)	5	#5	5'-6"	—
h612 (E)	11	#5	15'-5"	—
h613 (E)	8	#9	13'-0"	—
h614 (E)	16	#5	6'-4"	—
h615 (E)	8	#9	6'-4"	—
h616 (E)	16	#5	13'-0"	—
p610 (E)	24	#9	16'-6"	—
p611 (E)	32	#9	15'-2"	—
p610 (E)	6	#11	7'-4"	—
p611 (E)	5	#8	7'-4"	—
p612 (E)	6	#11	17'-5"	—
p613 (E)	6	#9	12'-7"	—
p614 (E)	4	#8	15'-5"	—
p615 (E)	6	#8	5'-6"	—
s610 (E)	5	#5	18'-1"	—
s611 (E)	13	#5	16'-3"	—
s612 (E)	16	#5	8'-0"	—
s613 (E)	14	#5	11'-0"	—
s614 (E)	40	#5	18'-0"	—
* sD610 (E)	2	#5	14'-4"	—
* sD611 (E)	2	#5	75'-3"	—
u610 (E)	11	#6	13'-4"	—
u611 (E)	20	#6	15'-0"	—
v610 (E)	5	#5	4'-8"	—
v611 (E)	24	#9	18'-3"	—
v612 (E)	64	#9	28'-4"	—
v613 (E)	10	#5	9'-4"	—
v615 (E)	5	#5	4'-2"	—
Mechanical Splicers	EACH	12		
Drilled Shaft in Soil	CU YD	108.4		
Drilled Shaft in Rock	CU YD	1.2		
Structure Excavation	CU YD	16.2		
Concrete Structures	CU YD	64.0		
Reinforcement Bars, Epoxy Coated	POUND	20,930		

* Length is height of spiral.

ANCHOR BOLT LAYOUT

Beam	Angle	a'	b'
NG7	20°57'48"	1'-0 3/8"	4 3/4"
A Thru R	21°39'15"	1'-0 5/16"	4 7/8"
NG1	21°39'15"	1'-0 5/16"	4 7/8"
NG2	21°39'15"	1'-0 5/16"	4 7/8"
NG3	21°39'15"	1'-0 5/16"	4 7/8"

BARS D610 (E), D612 (E), D613 (E)

Bar	c	d
D610 (E)	2'-0"	4'-4"
D612 (E)	2'-0"	15'-5"
D613 (E)	1'-4"	11'-3"

PIER 8 DETAILS
STRUCTURE NO. 016-3240

TYLIN INTERNATIONAL	DESIGNED - DY, LS	REVISIONS		SHEET NO. 58	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CHECKED - AMD, LS	NAME	DATE		55	0711.2R & 1011.1BR	COOK	741	661
	DRAWN - DY, LS				73 SHEETS	CONTRACT NO. 60999			
	CHECKED - AMD, LS				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
	DATE - 03/25/2011								

9:20:50 AM
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 5/9/2011