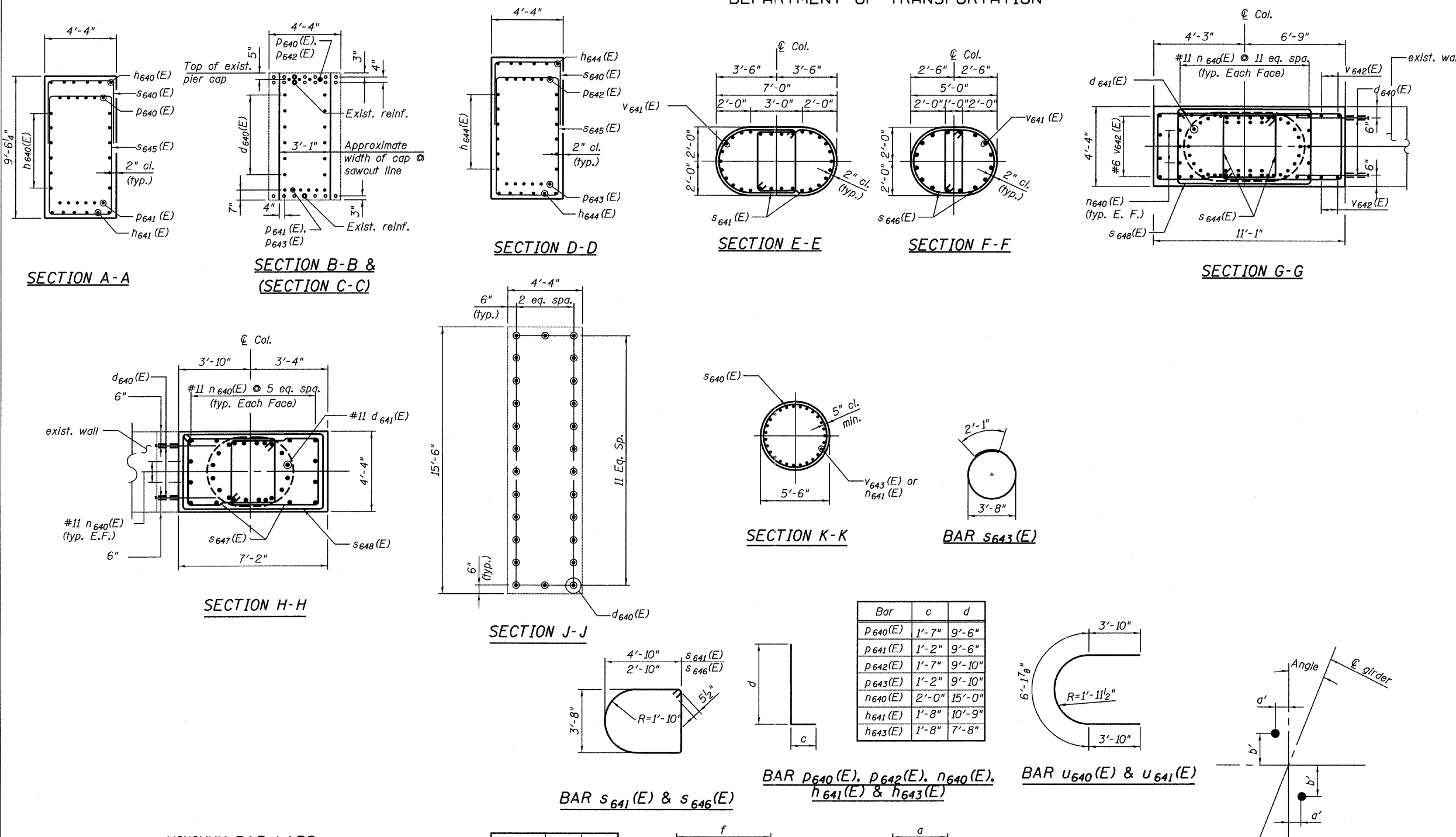


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BILL OF MATERIAL



Bar	No.	Size	Length	Shape
d640(E)	76	#5	2'-8"	—
d641(E)	46	#11	20'-4"	—
h640(E)	24	#5	8'-0"	—
h641(E)	6	#9	12'-5"	—
h642(E)	32	#6	19'-8"	—
h643(E)	6	#9	9'-4"	—
h644(E)	24	#5	8'-8"	—
n640(E)	46	#11	27'-1"	—
n641(E)	88	#9	15'-2"	—
P640(E)	4	#9	11'-1"	—
P641(E)	6	#7	10'-8"	—
P642(E)	4	#9	11'-5"	—
P643(E)	6	#7	11'-0"	—
S640(E)	18	#5	11'-0"	—
S641(E)	54	#5	16'-5"	—
S642(E)	256	#5	29'-11"	—
S643(E)	68	#5	13'-8"	—
S644(E)	32	#5	23'-11"	—
S645(E)	26	#5	23'-11"	—
S646(E)	52	#5	12'-5"	—
S647(E)	32	#5	20'-9"	—
S648(E)	8	#5	22'-7"	—
t640(E)	28	#11	24'-6"	—
t641(E)	28	#11	20'-8"	—
U640(E)	16	#6	13'-10"	—
V640(E)	14	#5	9'-3"	—
V641(E)	46	#11	29'-5"	—
V642(E)	12	#6	15'-2"	—
V643(E)	88	#9	41'-10"	—
*SD640(E)	4	#5	42'-3"	—
Drilled Shaft in Soil	CU YD		146.1	
Drilled Shaft in Rock	CU YD		2.9	
Structure Excavation	CU YD		72.2	
Concrete Structures	CU YD		239.3	
Reinforcement Bars, Epoxy Coated	POUND		64,810	

* Length is height of spiral.

MINIMUM BAR LAPS

Bar Size	Min. Lap
#6	3'-10"
#9	8'-7"
#11	10'-2"

Bar	e	f
S642(E)	9'-6"	5'-0"
S644(E)	4'-0"	7'-6"
S645(E)	7'-6"	4'-0"
S647(E)	4'-0"	5'-11"
S648(E)	4'-0"	6'-10"

BAR S642(E), S644(E), S645(E), S647(E) & S648(E)

Bar	a	b
S640(E)	4'-0"	3'-6"
t640(E)	20'-6"	2'-0"

BAR S640(E) & t640(E)

ANCHOR BOLT LAYOUT

Girder	Angle	a'	b'
NG13	21°39'15"	1'-0 3/4"	5 1/6"
P	21°39'15"	1'-0 3/4"	5 1/6"
NG11	22°8'40"	1'-0 3/4"	5 3/6"
NG12	22°37'52"	1'-0 1/6"	5 5/6"

PIER 11 DETAILS
STRUCTURE NO. 016-3240

TYLIN INTERNATIONAL	DESIGNED - DY, LS	REVISIONS		SHEET NO. 64	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.					
	CHECKED - AMD, LS	NAME	DATE							55	0711.2R & 1011.1BR	COOK	741	667
	DRAWN - DY, LS									73 SHEETS	CONTRACT NO. 60999			
	CHECKED - AMD, LS									FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
	DATE - 03/25/2011													

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