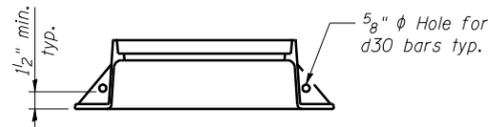


***BILL OF MATERIAL**

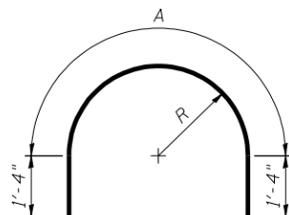
Bar	No.	Size	Length	Shape
a30	40	#4	11'-3"	—
a31	96	#5	12'-5"	⌋
d30	6	#4	2'-6"	—
d31	4	#4	7'-6"	⌋
d32	4	#4	9'-6"	⌋
h30	48	#5	11'-3"	—
v30	68	#5	9'-1"	—
v31	68	#5	3'-2"	—
Concrete Structures	Cu. Yd.	15.8		
Reinforcement Bars	Pound	3,040		

* For information only.

Note: Control Structure shall be orthogonal to the 36" pipes. See Drainage Plans for more information.

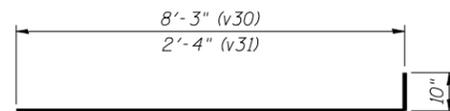


FRAME DETAIL

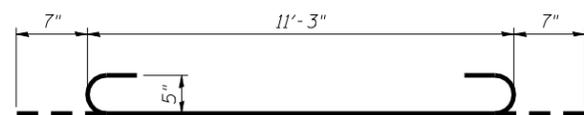


Bar	R	A
d31	1'-6 1/2"	4'-10"
d32	2'-2"	6'-9 1/2"

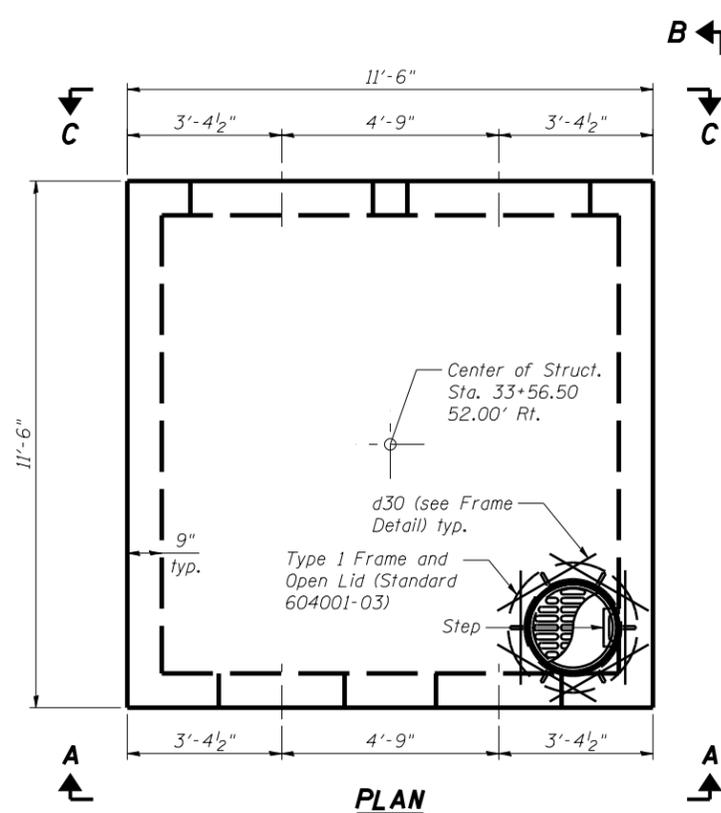
BARS d31 THRU d32



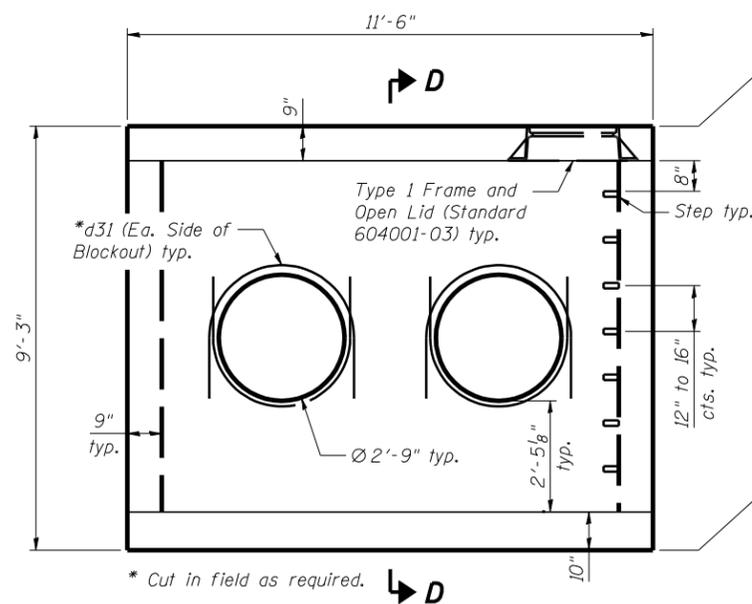
BARS v30 and v31



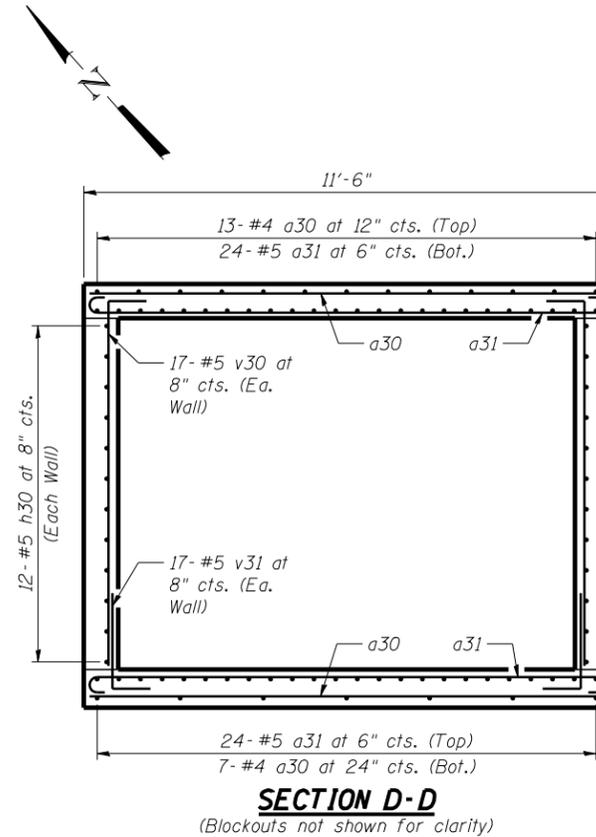
BAR a31



PLAN

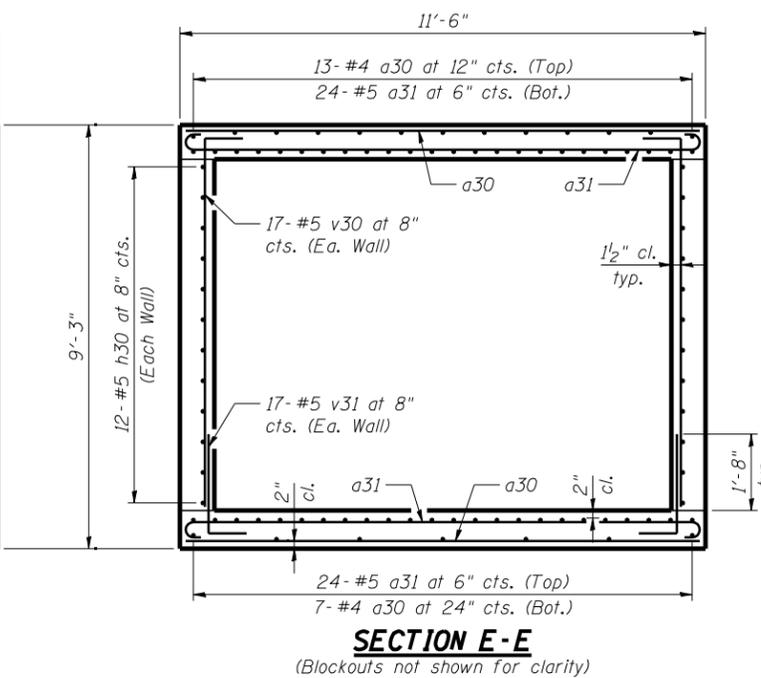


VIEW A-A



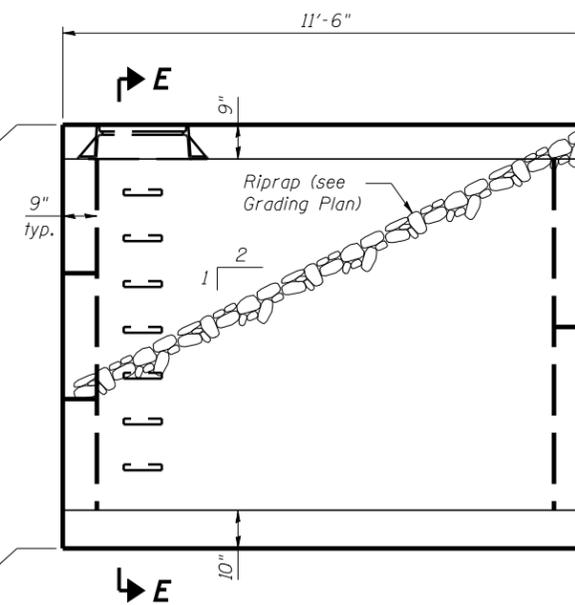
SECTION D-D

(Blockouts not shown for clarity)



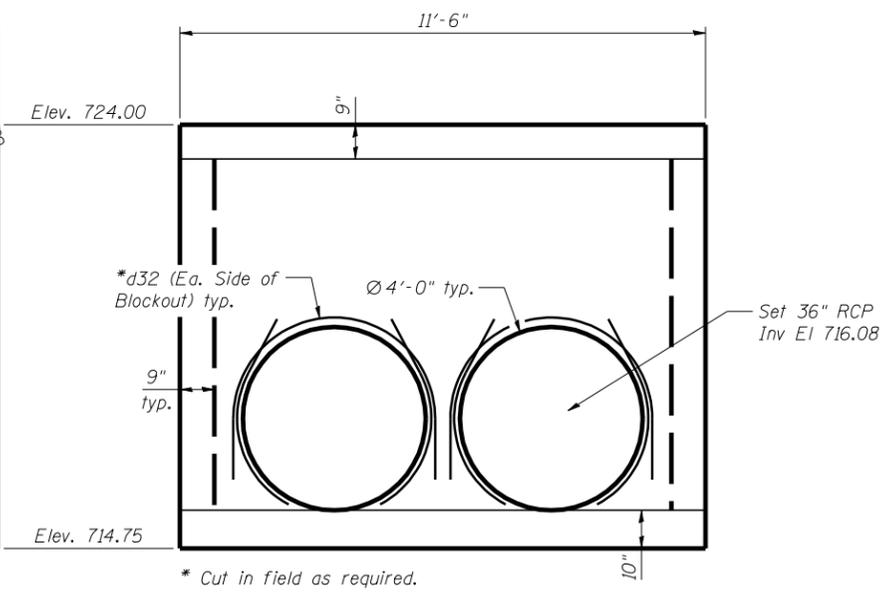
SECTION E-E

(Blockouts not shown for clarity)



VIEW B-B

(West face similar)



VIEW C-C

* Cut in field as required.

NOTES:

- Contractor shall verify all field dimensions prior to commencing work, including verification that the openings provided on this detail will accommodate the pipe sizes and inverts as given on the Drainage and Utility Plans.
- Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60.
- All bar dimensions are out-to-out.
- Bars shall be cut in field as required to accommodate blockouts.
- See Std. 602701 for manhole step details.
- Quantities for Concrete Structures and Reinforcement Bars are for information only. All work and materials shown on this sheet shall be paid for as Drainage Control Structure.
- All joints between pipe and structure shall be mortared from both sides.
- Contractor may install the pipe(s) that enter the structure with the cast-in-place concrete, without forming the holes noted separately, as approved by the Engineer. It shall be the Contractor's responsibility to provide compacted support for the pipe(s) to ensure no differential settlement will occur.

FILE NAME =	DESIGNED - MFH	REVISED -
...D468620-shd-Ctr1Str.dgn	DRAWN - MFH	REVISED -
USER NAME = toddblank	CHECKED - SLD	REVISED -
PLOT DATE = 7/18/2012	DATE - JULY 20, 2012	REVISED -



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DRAINAGE CONTROL STRUCTURE

SCALE: SHEET NO. 7 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90-114R(14HB-4,14,14HVB)BR	TAZEWELL	2433	1463	
			CONTRACT NO. 68620	
ILLINOIS FED. AID PROJECT				