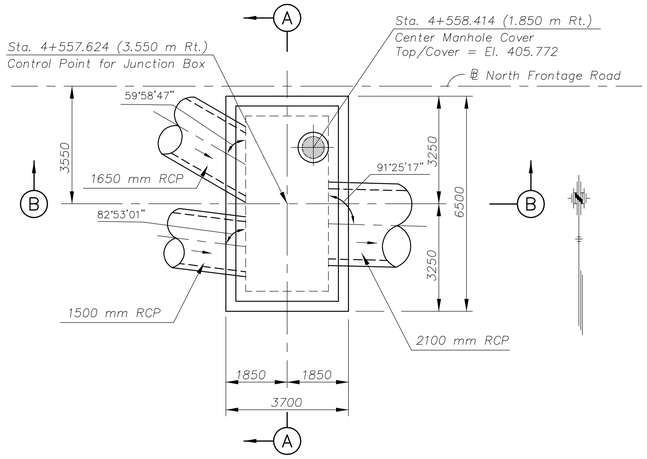
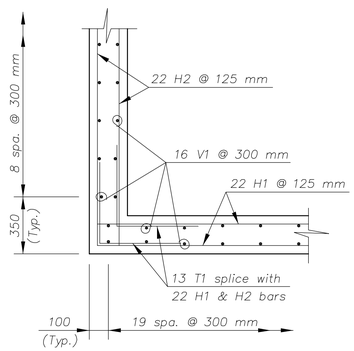
E.F. INDICATES EACH FACE.
N.F. INDICATES NEAR FACE.
F.F. INDICATES FAR FACE.

F.H.W.A. REGION NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	54–87 K–8258–05	2003	19	51

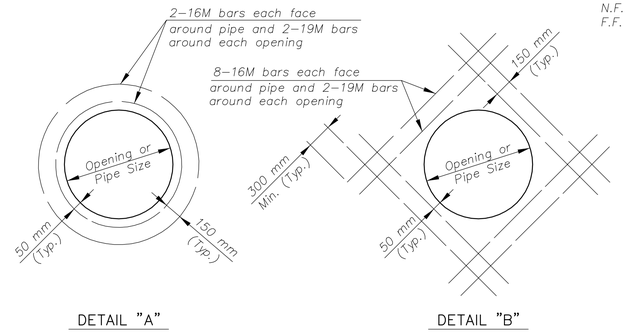
DATE	BY	REFERENCE NOTED	REFERENCE CHECKED



PLAN OF JUNCTION BOX

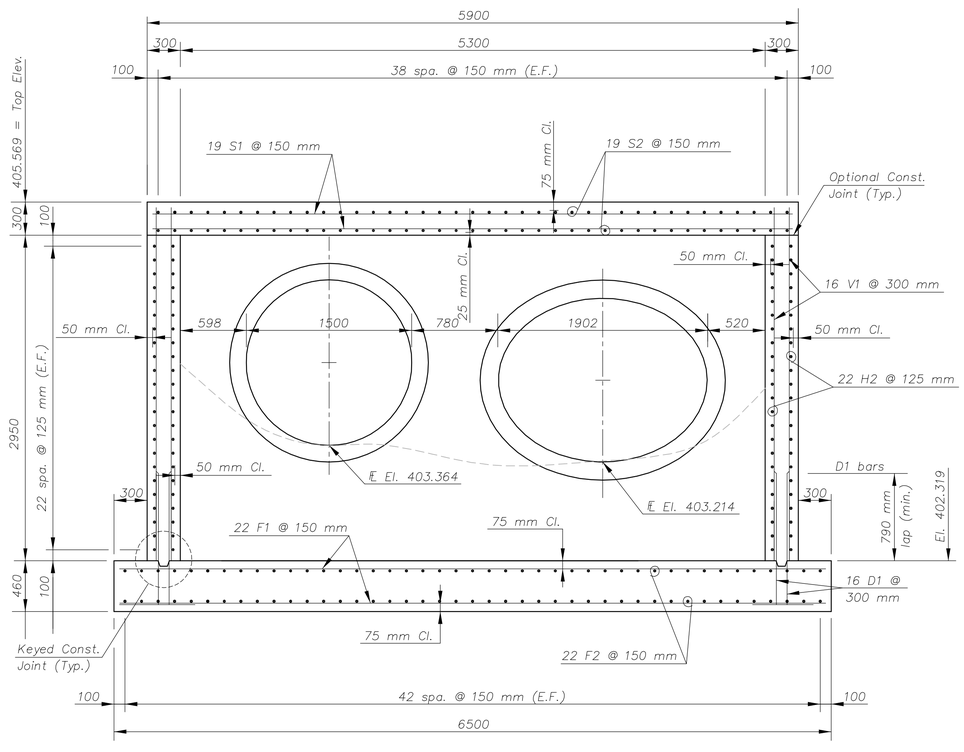


WALL CORNER DETAIL

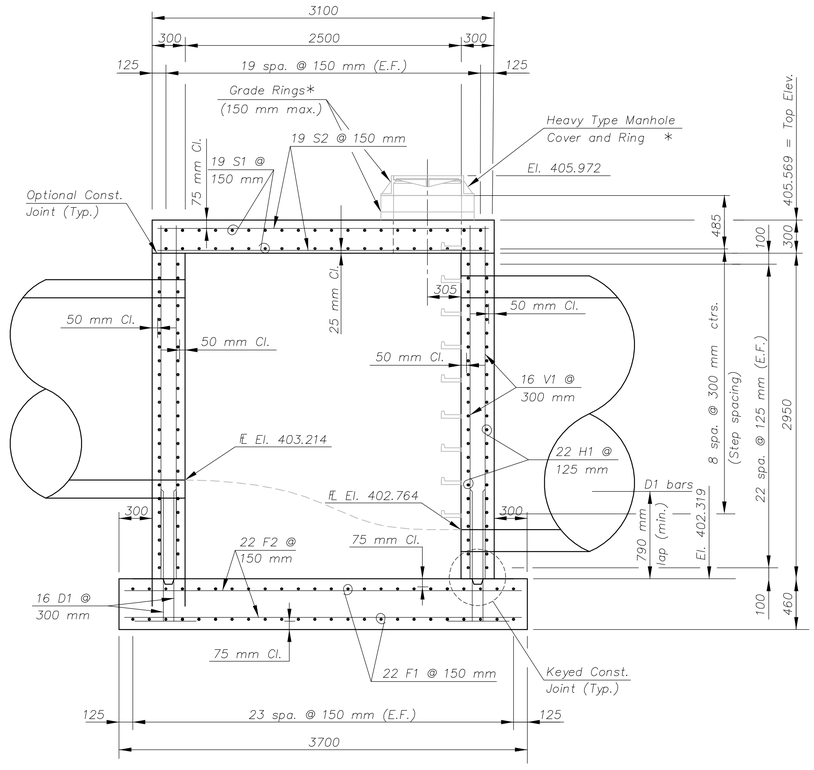


ADDITIONAL REINFORCING AT OPENINGS OR PIPE LOCATIONS

NOTE: Additional reinforcing shall be added as shown in Detail "A" or "B" depending upon the opening or pipe location in the Junction Box. The reinforcing shall be bent as required to maintain 50 mm clearance to the pipe or concrete face. This reinforcing shall not be paid for directly but shall be considered subsidiary to "Reinforcing Steel Grade 420 (Epoxy Coated)".



SECTION A–A



SECTION B–B

GENERAL NOTES

CONCRETE:
Concrete Grade 30 (AE) shall be used throughout. Bevel all exposed edges with a 20 mm triangular molding, unless otherwise noted.

REINFORCING:
All reinforcing shall conform to ASTM A615M, Grade 420 and shall be epoxy coated. All dimensions relative to the placement of reinforcing steel shall be to the centerline of bar unless otherwise noted.

OPENINGS:
No reduction in concrete quantities shall be made for any opening for pipes or manhole covers.

CONSTRUCTION JOINTS:
Construction Joints shown are optional, but if used shall be made at locations shown or approved by the Engineer.

FLOOR SHAPING:
Floor of Junction Box shall be shaped as shown on this sheet or Standard Drawing RD730SI with unreinforced concrete. No additions in concrete quantities shall be made for shaping of Junction Box floor.

CASTINGS:
All castings shall be gray iron and shall comply with the City Standard Specification. Castings for this structure shall not be paid for directly but shall be subsidiary to Concrete Grade 30 (AE).

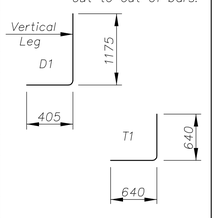
EXCAVATION:
Excavation shall not be paid for directly but shall be subsidiary to Concrete Grade 30 (AE).

FOUNDATION STABILIZATION:
Foundation Stabilization may be required as directed by the Engineer. The depth of the Foundation Stabilization shall be determined by the Engineer. Foundation Stabilization shall be paid for at the determined Unit Price set for Foundation Stabilization.

* Not paid for directly, subsidiary to Concrete Grade 30 (AE).

BILL OF REINFORCING STEEL

STRAIGHT BARS				BENDING DIAGRAMS
MARK	SIZE	NO.	LENGTH	NOTE: All dimensions are out to out of bars.
H1	22	92	5800	
H2	22	92	3000	
F1	22	48	6400	
F2	22	86	3600	
S1	19	40	5800	
S2	19	78	3000	
D1	16	116	1580	
V1	16	116	3150	
T1	13	184	1280	



SUMMARY OF QUANTITIES

Concrete Grade 30 (AE)	44.9 cu m
Reinforcing Steel Grade 420 (Epoxy Coated)	6470 kg

Drawn by:
File: \JCT_BOX
Plotted:
SCALE 1:250

Cook, Flatt & Strobel
ENGINEERS, P.A.

KANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL STORM SEWER JUNCTION BOX
Sta. 4+558.414 North Frontage Rd.
Structure No. 1202

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