STORM WATER SEWER IMPROVEMENTS TO SERVE

RUSTY ECK FORD
7310 E. KELLOGG DRIVE

Project Number

1374 PPS (607861)

CITY OF WICHITA, KANSAS

Neil D. Cable, P. E., City Engineer

GENERAL NOTES

1. Contractor will be required to provide notice to utility companies a minimum of twenty-four (24) hours prior to any excavation, as follows:

   Kansas One-Call 687-2470

   The Contractor must notify the following in case of an emergency:

Cox Communications	262-4270
or	263-2061
Westar Energy	383-2600
SBC	1-571-2611
City of Wichita Water Department	268-4908
City of Wichita Sewer Department	268-4071
Kansas Gas Service	832-3168
or	832-3167

2. Exist. utilities and their locations, as shown on the plans, represent the best information obtainable for design. Location information has been obtained from the various utility companies and is either from company record drawings or company-provided field locations. The Contractor will be required to work around existing utilities which do not conflict with proposed construction.

3. The Contractor to verify utility locations prior to construction of this project.

4. Utility service and installation shall be coordinated with the respective utility owners. Contacts are:

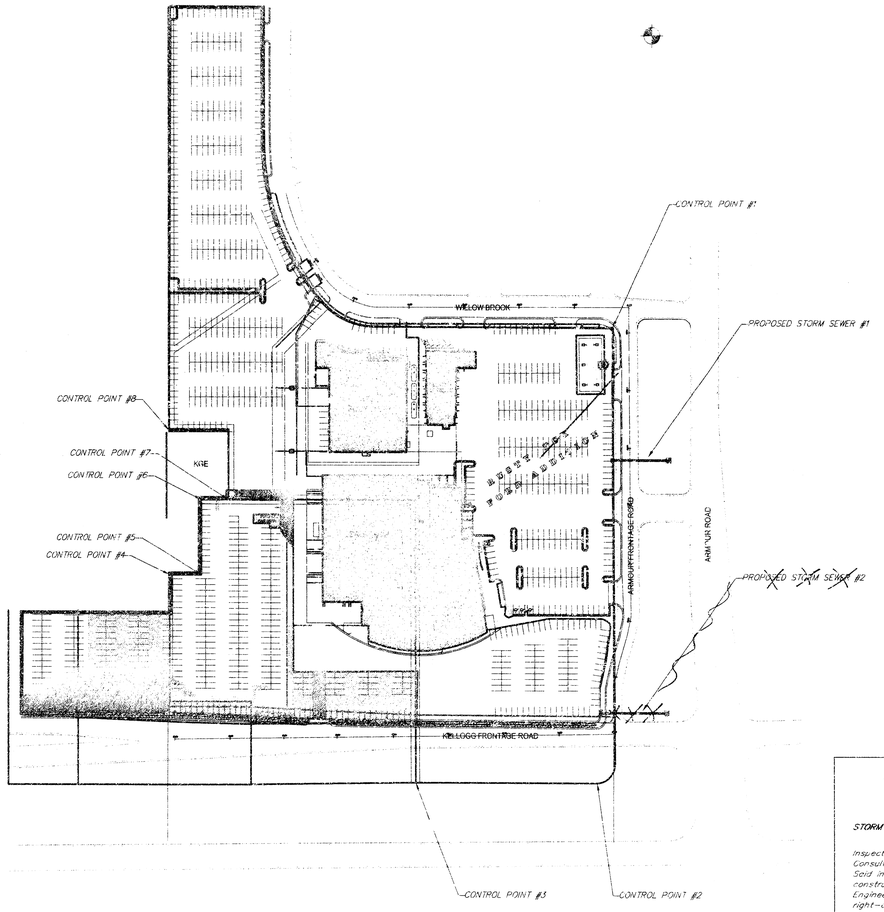
Kansas Gas Service	Jim Stoltz	832-3122
Westar Energy	Russ Chitwood	261-6251
Wichita Water	Chuck Steven	268-4555
	Joe Botinelly	268-4908
SBC	Jim Tobin	268-2759

5. All areas disturbed by construction shall be seeded with rye Rebel II Fescure grass at a rate of 350 lbs./acre immediately following construction in that area.

6. Traffic affected by the construction of this project shall be handled in accordance with the latest edition of the Manual on Uniform Traffic Control Devices.

7. All lawn/turf areas disturbed by construction of proposed improvements shall be restored with the same grass/ sod as existing. Restoration of disturbed areas shall include, but not be limited to, top soil preparation, seeding, mulch and/or reseeding. All seeding/sodding work shall be in accordance with the City of Wichita standard specifications and the City of Wichita administrative regulation No. AR78 which governs cleanup and replacement following construction. All costs for this work shall be subsidiary to the lump sum price bid for "Site Restoration."

8. Cuts made to paved surfaces on public property will be repaired by the City's contractor and charged against the owner/applicant. Unit repair prices are available from the City at 268-4418. A surcharge may be applicable: call 268-4418 for details.



AS-BUILT
3/16/04
Date
Signed

BENCHMARK:

"□" Cut SW Cor. Bridge
86.29 ft. W & 41.34 ft. S of
Centerline of Intersection
Armour & Kellogg

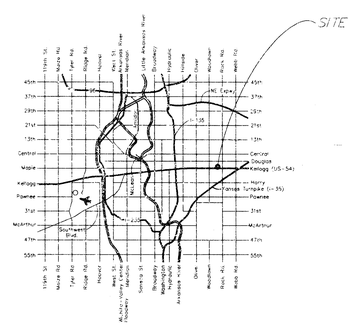
Armour and Douglas
NE Corner RCBC
Elev.=1354.73
Elev.=167.33 (City Datum)

INDEX

1 Cover
2-3 SWS Plan and Profile
4-6 Inlet Detail's

CONTROL POINTS

CP #1, 3/4" IP, N=5756.0765, E=9959.9301
CP #2, 1/2" IP, N=4966.2515, E=9965.7849
CP #3, 3/4" IP, N=4968.6081, E=9636.8339
CP #4, 3/4" IP, N=5331.6496, E=9188.4179
CP #5, 3/4" IP, N=5331.5940, E=9246.1360
CP #6, 1/2" IP, N=5461.3135, E=9246.8371
CP #7, 1/2" IP, N=3460.7403, E=9297.0710
CP #8, 3/4" IP, N=5580.8745, E=9189.5946



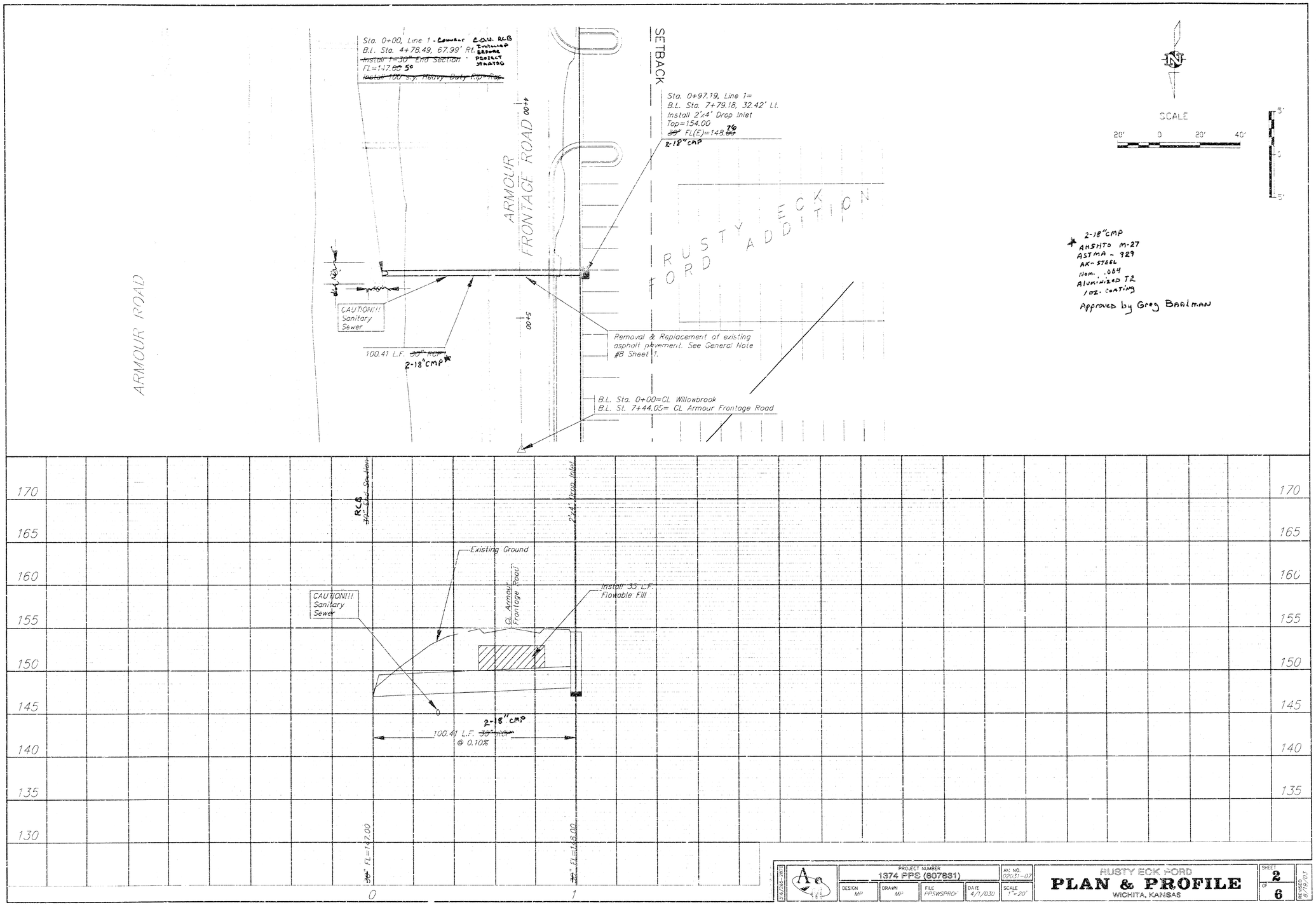
LOCATION MAP

APPROVED AS NOTED BY CITY ENGINEER OF WICHITA

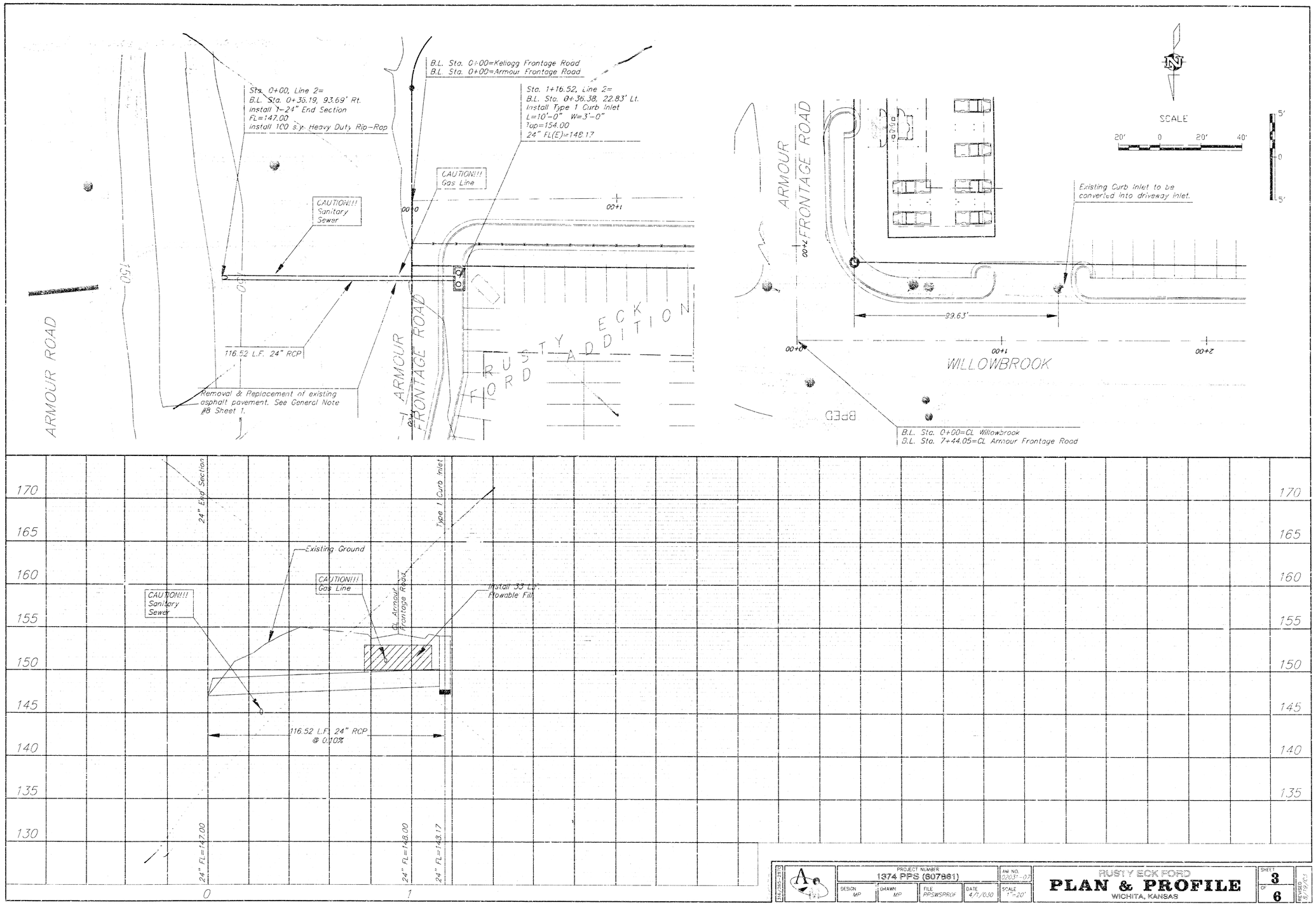
STORM SEWERS VRH 6/20/03

Inspection and testing for this project are to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said inspection is to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Prof. Engineer. No work shall be performed in dedicated easements or public right-of-way by the Contractor without such inspection nor shall work be commenced without written authorization by the City Engineer. All construction and materials shall comply with the City of Wichita Specifications and Standards (on file and available in the City Engineer's Office).

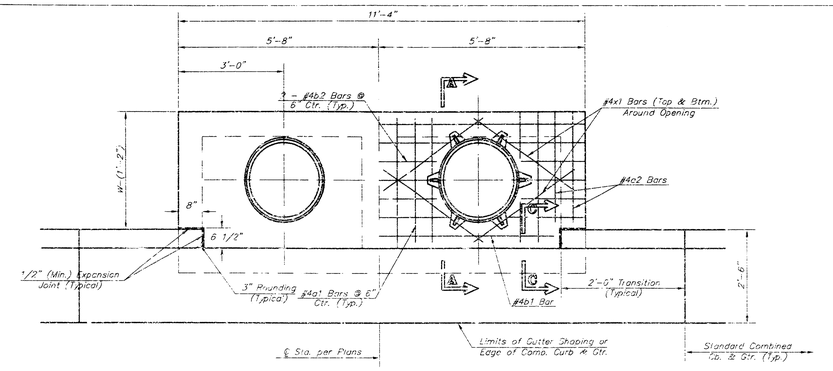
AM Inc.
ENGINEERING SERVICES
142 N. Emporia Wichita, KS 67202
316/265-2870 fax: 316/265-2819



PROJECT NUMBER 1374 PPS (607861)				AM. NO. 02031-07	RUSTY ECK FORD **PLAN & PROFILE** WICHITA, KANSAS	SHEET 2 OF 6
DESIGN MP	DRAWN MP	FILE PPSWSPROF	DATE 4/1/030	SCALE 1"=20'		REVISED 8/19/03

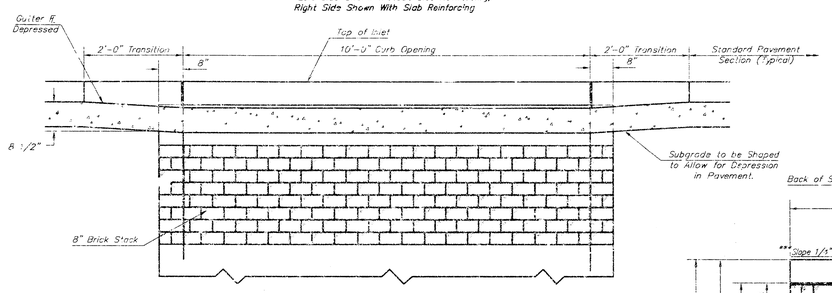


PROJECT NUMBER 1374 PPS (807861)				AM NO. 02031-07	RUSTY ECK FORD **PLAN & PROFILE** WICHITA, KANSAS	SHEET 3 OF 6
DESIGN MP	DRAWN MP	FILE PPSWSPROF	DATE 4/1/030	SCALE 1"=20'		REVISED 8/19/03

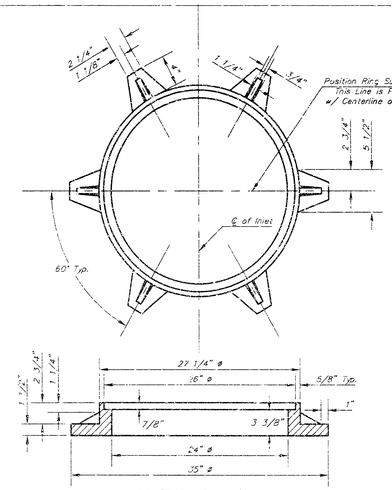


PLAN

*Left Side Shown Without Slab Reinforcing, Right Side Shown With Slab Reinforcing



ELEVATION



Inlet Frame Weight = 180 lbs

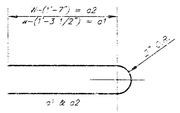
MANHOLE RING AND COVER

*See City of Wichita Standard Manhole Ring and Cover Detail Sheet for Cover Details to Be Used With Inlet Frame.

PRECAST SLAB AND FLOOR REINFORCING											
		W = 4'-4"		W = 5'-4"		W = 6'-4"		W = 7'-4"		W = 8'-4"	
MARK	SIZE	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
a1	#4	13	6'-7"	13	8'-7"	13	10'-7"	13	12'-7"	13	14'-7"
* a2	#4	4	6'-0"	4	8'-0"	4	10'-0"	4	12'-0"	4	14'-0"
a3	#4	23	4'-1"	23	5'-1"	23	6'-1"	23	7'-1"	23	8'-1"
b1	#4	1	9'-9"	1	9'-9"	1	9'-9"	1	9'-9"	1	9'-9"
* b2	#4	23	11'-1"	29	11'-1"	35	11'-1"	41	11'-1"	47	11'-1"
x1	#4	16	3'-10"	16	4'-2"	16	4'-6"	16	4'-10"	16	5'-2"
WALL REINFORCING											
		W = 4'-4"		W = 5'-4"		W = 6'-4		W = 7'-4"		W = 8'-4"	
MARK	SIZE	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
w1	#4	②	11'-1"	①	11'-1"	①	11'-1"	①	11'-1"	①	11'-1"
w2	#4	①	4'-1"	①	5'-1"	①	6'-1"	①	7'-1"	①	8'-1"
w3	#4	52	②	56	②	60	②	64	②	68	②

* Field Bend or Cut Reinforcing as Required for Clearance.
① H (H1 - 12") (1½" - 21") Rounded down to nearest 0.5'
② H1 - 3"

STANDARD CURB INLET PRECAST TOPS			
W	PRE-CAST TOP SIZE	INLET SIZE	CU. YD. CONC.
4'-4"	5'-8" x 11'-4" x 7 1/2"	21" & SMALLER	0.83±
5'-4"	6'-8" x 11'-4" x 7 1/2"	24" & 30"	1.09±
6'-4"	5'-8" x 11'-4" x 7 1/2"	36" & 42"	1.35±
7'-4"	6'-8" x 11'-4" x 7 1/2"	48" & 54"	1.61±
8'-4"	7'-8" x 11'-4" x 7 1/2"	60" & 66"	1.87±



BENDING DIAGRAM

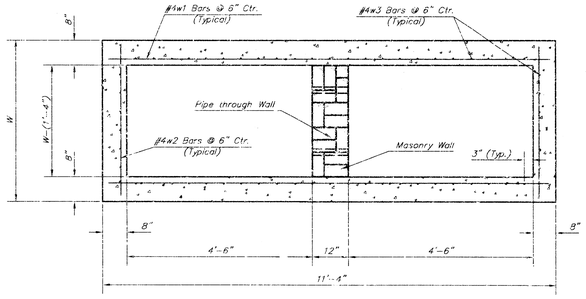
GENERAL NOTES:

Concrete shall be C.O.W. standard paving mix. All exposed edges shall be finished with an edging tool. Reinforcing bars shall be field bent or cut to clear pipes and inlet rings. All bars are #4 bars @ 6" spacing and shall have a minimum clearance of 1 1/2" unless otherwise noted. Floors of inlet shall be shaped with 8 sack sand mix concrete to increase hydraulic efficiency such that the inlet will be self cleaning between all inlet and/or outlet pipe(s). The contractor will be required to to construct 8" brick masonry wall between the inlet base and top on this inlet when H=7'-0" or less and W=5'-4" or less. When W is greater than 6'-4" and H is less than 7'-0", the outside inlet walls below the brick stack shall be reinforced concrete construction.

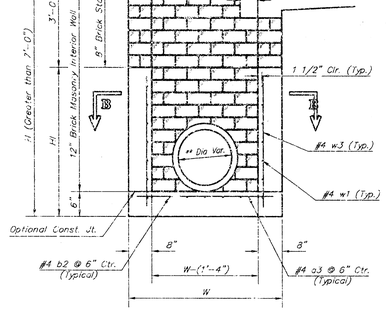
Concrete tops to be installed on thin mortar cushion to insure full support along brick walls. Concrete tops may be cast in place or precast.

The ends of all pipes installed in inlets shall be cut off flush with the inside face of the inlet wall.

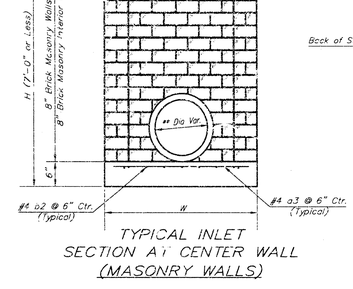
This detail is identical to the standard detail drawing except that the gutter transition length is increased from 2'-0" to 3'-6".



SECTION B-B



TYPICAL INLET SECTION AT CENTER WALL (REINFORCED CONCRETE WALLS)

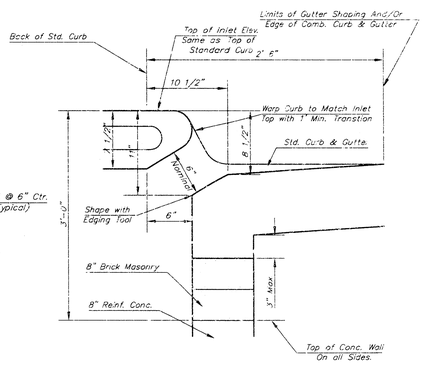


TYPICAL INLET SECTION AT CENTER WALL (MASONRY WALLS)

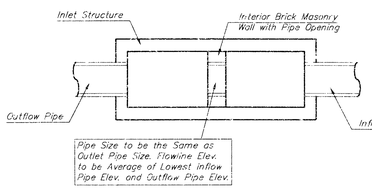
NOTES:

** A center wall opening shall be provided by means of a section of reinforced concrete pipe. See Case I and Case II below.

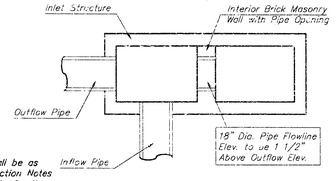
*** Slope of inlet tops to match sidewalk of parking slopes within limits indicated



SECTION C-C

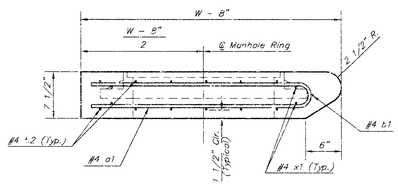


CASE I



CASE II

NOTE:
Center Wall Pipe Size shall be as Specified in Inlet Construction Notes on the Plan/Profile Sheets for those Cases not Shown Here.



SECTION A-A

THE CITY OF WICHITA

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202
(316) 268-4501
(316) 268-4174 FAX

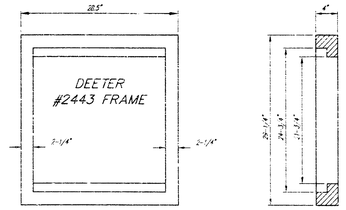
STANDARD TYPE 1
CURB INLET
OPENING = 6" x 10'-0"

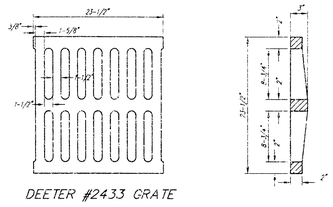
M. E. LINDEBAK P.E. - CITY ENGINEER

PROJECT NUMBER	INDEX CODE
XXX-XXXXX	XXXXXX
DATE: MAR 96	SHEET X OF X

STYP1-D.DWG

316/265-3805		PROJECT NUMBER 1374 FPS (607861)			AM NO. 020.37-07	RUSTY ECK FORD	SHEET 4	
		DESIGN	DRAWN	FILE typ1-d	DATE 4/1/03	SCALE	INLET DETAILS WICHITA, KANSAS	OF 6

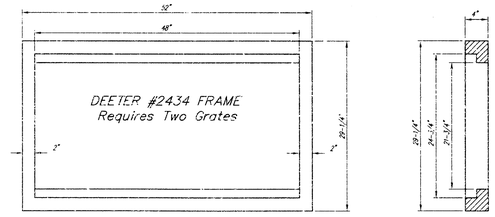




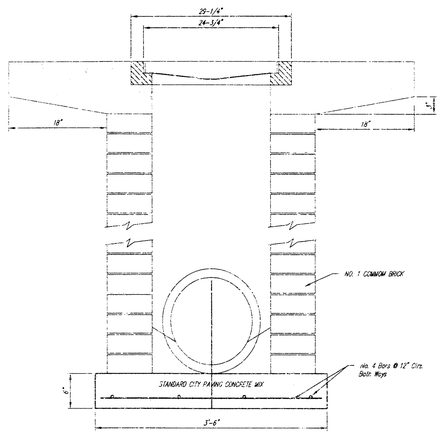
DEETER #2433 GRATE

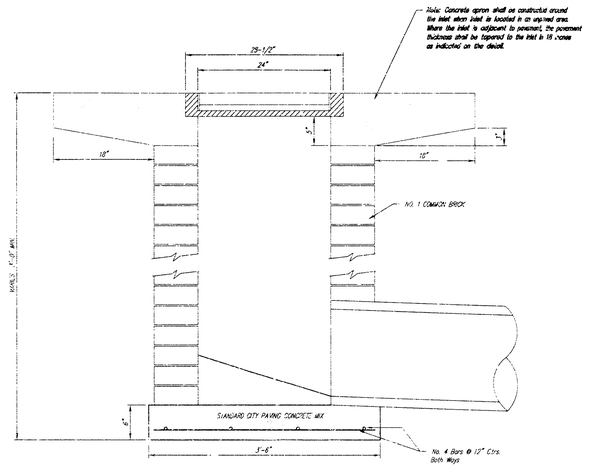
NOTE: Grates shall be imprinted on the top surface with "CITY OF WICHITA" using letters at least 1" in height. Other marking methods may be approved by the engineer.

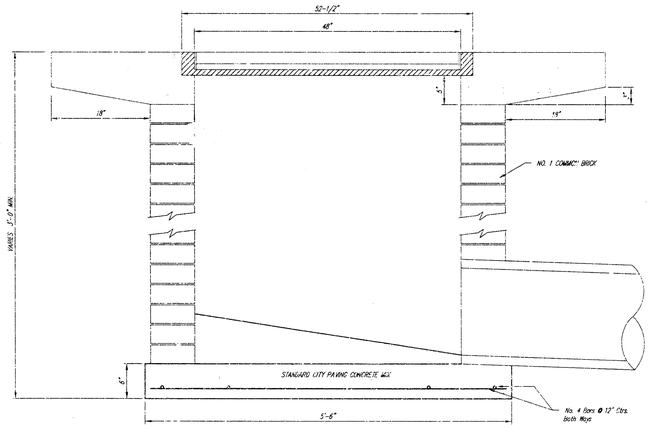
24" x 24" Frame and Grate Detail



Double 24" x 24" Frame Detail







THE CITY OF WICHITA

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202
(316) 268-4501
(316) 268-4114 FAX

DROP INLET
2' X 2'/2' X 4'

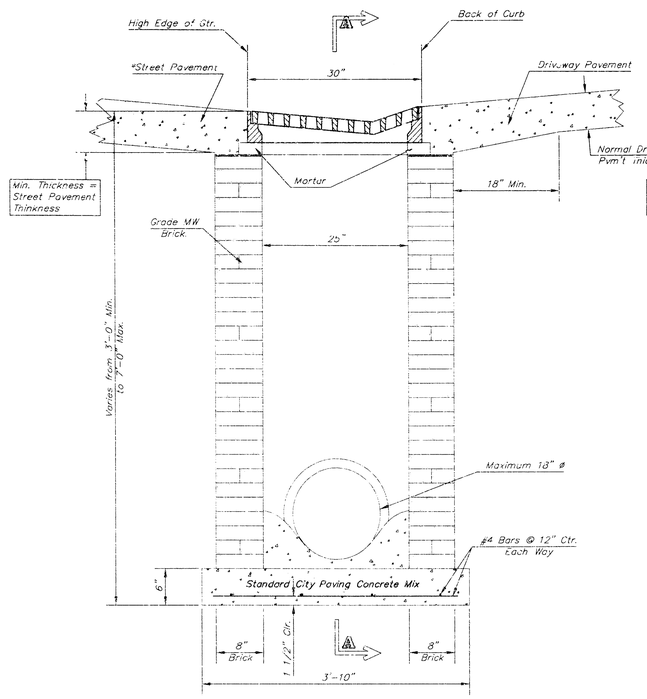
M. E. LINDEBAK P.E. - CITY ENGINEER

PROJECT NUMBER	INDEX CODE
797 PPS 607861	

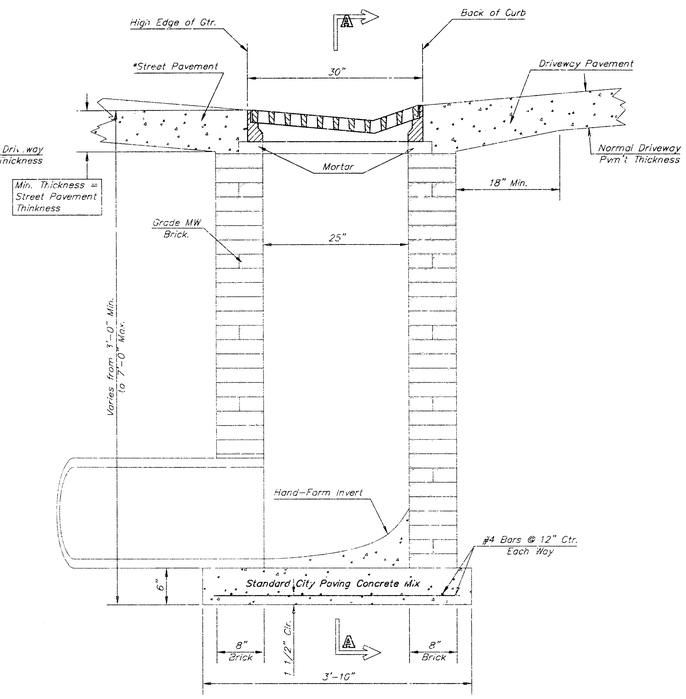
DATE	
MAR 96	SHEET 12 OF 14

DROPINLT.DWG

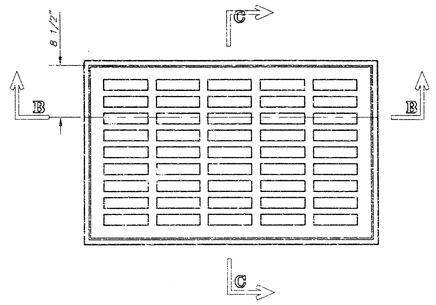
316/265-2870	PROJECT NUMBER 1374 PPS (607861)			AM NO. 02031-07	RUSTY ECK FORD INLET DETAILS WICHITA, KANSAS	SHEET 5 OF 6	REVISED 8/16/03
	DESIGN	DRAWN	FILE typ1-t	DATE 4/1/03	SCALE		



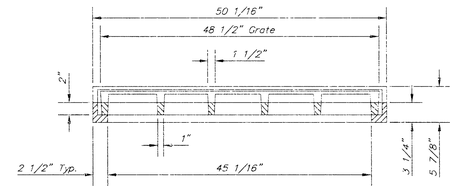
END OUTLET



SIDE OUTLET



PLAN



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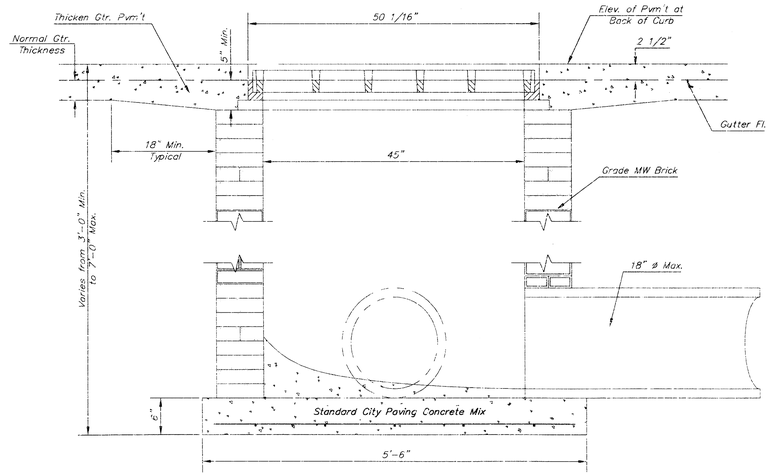
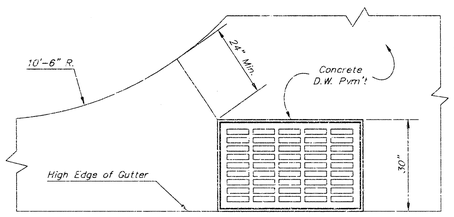
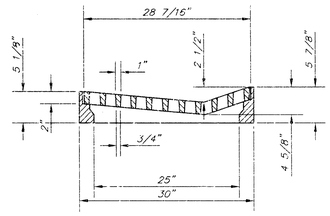


SECTION A–A



PLAN

Radius Ramp Drive to be Constructed On Lot 3, Block 2 per City Standard



SECTION C–C

DEETER #2095 FRAME & GRATE

TOTAL WEIGHT: 705 lbs.

GENERAL NOTES

1. Grate frame to be installed on thin mortar cushion to insure full support along brick walls. Concrete used for inlet construction shall be concrete pavement mix.
2. Inlet invert shall be shaped with 8 sack sand mix concrete to create flow channels and to increase hydraulic efficiency such that the inlet will be self cleaning between all inlet and/or outlet pipes.
3. The ends of all pipes installed in inlets shall be cut off flush with the inside face of the inlet wall.
4. Inlet Frame and Grate to be Deeter #2095 of approved equal

THE CITY OF WICHITA

CITY ENGINEER'S OFFICE
CITY HALL – SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202
(316) 268-4501
(316) 268-4114 FAX

DRIVEWAY GRATED INLET SINGLE

M. E. LINDEBAK P.E. – CITY ENGINEER

PROJECT NUMBER	INDEX CODE
XXX–XXXXX	XXXXXX
DATE MAR 96	SHEET X OF X

DRVINLT.DWG

PROJECT NUMBER 1374 PPS (607861)				AM NO. 02031-01	RUSTY ECK FORD INLET DETAILS WICHITA, KANSAS	SHEET 6 OF 6	REVISED 8/18/03
DESIGN	DRAWN	FILE typ1-1	DATE 4/1/03	SCALE			

315/265-2875

50 40 70 91