APPROVED AS NOTED

BY CITY ENGINEER OF WICHITA

SANITARY SEWERS _____

STORM SEWERS VRH 1/17/01

DRIVEWAY APPROACHES _____

WATER MAINS _____

PAVING _____

NOTE TO CONTRACTOR

INSPECTION AND TESTING FOR THIS PROJECT IS TO BE PROVIDED BY A LICENSED CONSULTING ENGINEERING FIRM UNDER CONTRACT WITH THE OWNER/DEVELOPER. SAID INSPECTION TO BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD CONSTRUCTION ENGINEERING PRACTICES AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER. NO WORK SHALL BE PERFORMED IN DEDICATED EASEMENTS OR THE PUBLIC RIGHT-OF-WAY BY THE CONTRACTOR WITHOUT SUCH INSPECTION NOR SHALL ANY WORK BE CONVEYED IN DEDICATED EASEMENTS OR PUBLIC RIGHT OF WAY WITHOUT EXPRESS AUTHORIZATION BY THE CITY ENGINEER.

GENERAL NOTES

1. THE TOPS OF INLETS AND MANHOLES AS NOTED ON THE PLANS MAY VARY SO AS TO MEET PROPOSED TOP OF CURB ELEVATIONS OR PAVEMENT ELEVATIONS. THE FIELD ENGINEER SHALL LOCATE INLETS AND MANHOLES WITH REFERENCE TO PROPOSED PAVING PLANS OF THE PERTINENT STREETS.
2. ALL CONCRETE SHALL BE STANDARD PAVING MIX UNLESS OTHERWISE NOTED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
4. TREES TO BE REMOVED ARE MARKED X . ALL TREES WHICH IN THE OPINION OF THE FIELD ENGINEER CAN BE SAVED, SHALL BE SAVED.
5. CONTRACTOR SHALL NOTIFY UTILITY COMPANIES OF CONSTRUCTION SCHEDULING.
6. EXISTING UTILITIES AND THEIR LOCATIONS, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS COMPANIES AND IS EITHER FROM COMPANY UTILITY DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.
7. CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF FORTY-EIGHT (48) HOURS TO UTILITY COMPANIES TO STAKE ANY EXCAVATION AS FOLLOWS:

   KANSAS ONE CALL 882-2670
   OR 882-2670 (LOCAL WICHITA)

   THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF EMERGENCY:

CABLEVISION	263-2061
KG&E (GAS & ELECTRIC)	383-8600
SOUTHWESTERN BELL TELEPHONE COMPANY	1-800-734-7990
CITY OF WICHITA WATER & SEWER MAINS	263-4000
COOPERATIVE REFINERY PIPELINE	1-800-992-4172

8. RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES, ALL ASPHALT EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON A SITE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE AND SPECIFICATION. IF, IN THE OPINION OF THE ENGINEER, ANY SITE IS UNSUITABLE FOR APPEARANCE AND/OR WILL NOT BE APPROVED, ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL SHALL NOT BE STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN, WHICH FIGURE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY UNAUTHORIZED DISTURBANCE OF THE LAND, STATES, OR WETLANDS IS SUBJECT TO THE COMPLIANCE OF ENVIRONMENTAL HARVESTING REGULATIONS. ANY MATERIAL BURIED OR DISPOSED BEYOND APPROVED CONSTRUCTION LIMITS WOULD REQUIRE ADDITIONAL APPROVED DOCUMENTATION UNLESS BURIED IN A DEPARTMENT APPROVED SANITARY LANDFILL.
9. ZONE AE (100 YEAR FLOOD) AND ZONE X (500 YEAR FLOOD) AREAS DO NOT EXIST ON THIS SUBDIVISION AS PER FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL NUMBER 200328 0001 B, DATED SEPTEMBER 30, 1982.

PRIVATE STORM WATER SEWER PLANS FOR

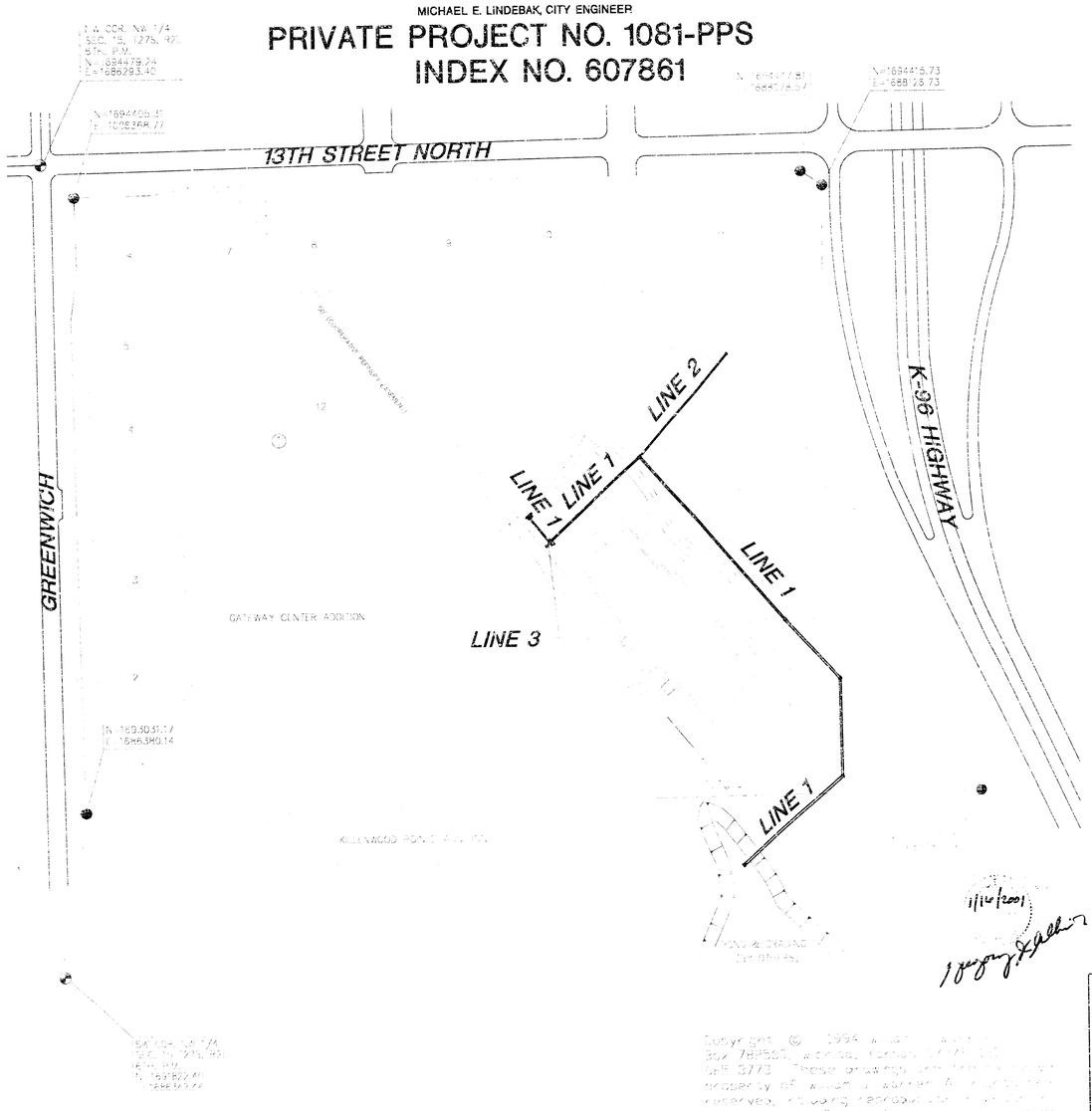
THE WARREN THEATER
IN
THE GATEWAY CENTER ADDITION

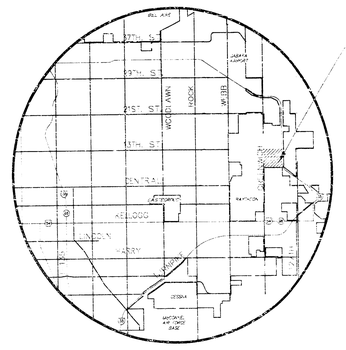
AN ADDITION TO THE CITY OF WICHITA

SEDGWICK COUNTY, KANSAS

MICHAEL E. LINDEBAK, CITY ENGINEER

PRIVATE PROJECT NO. 1081-PPS
INDEX NO. 607861





LOCATION MAP

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-3	DROP INLET DETAILS
4	CURB INLET DETAILS
5-7	LINE 1
8	LINE 2 & LINE 3
9	FINAL PLAT

BENCHMARK

BM#1 X POS. 676.63 N.W. CORNER OF 140 M.S. LINE NO. 1 ELEV. = 1394.80

BM#2 C.S.B. BENCHMARK 0.4' EAST & 0.3' SOUTH OF SOUTHEAST CORNER OF TRAFFIC SIGNAL BASE ELEV. = 1389.11

SCALE: 1" = 100'

1/16/2001

A3 Build 6/1/01

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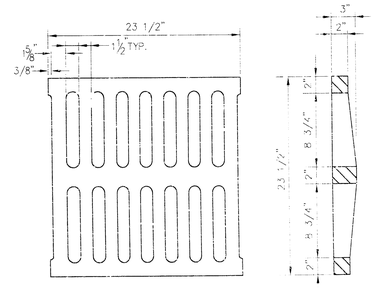
MKEC ENGINEERING CONSULTANTS
411 N. WEBB ROAD
WICHITA, KS. 67206
316-684-9600

THE WARREN THEATER
PROJECT NAME

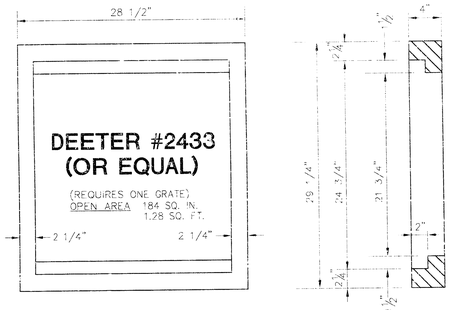
KEY MAP
SHEET TITLE

GJA	GJR	GJA
DESIGN BY	DRAWN BY	CHECKED BY
JANUARY 2001	00157_DT	1 9
DATE	DRAWING NAME	SHEET OF

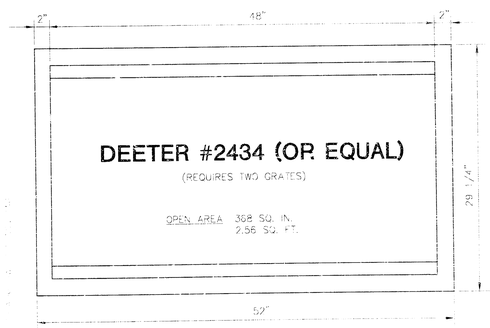
NOTE: GRATES SHALL BE IMPRINTED ON THE TOP SURFACE WITH "CITY OF WICHITA" USING LETTERS AT LEAST 1" IN HEIGHT. OTHER MARKING METHODS MAY BE USED ONLY IF APPROVED BY THE ENGINEER.



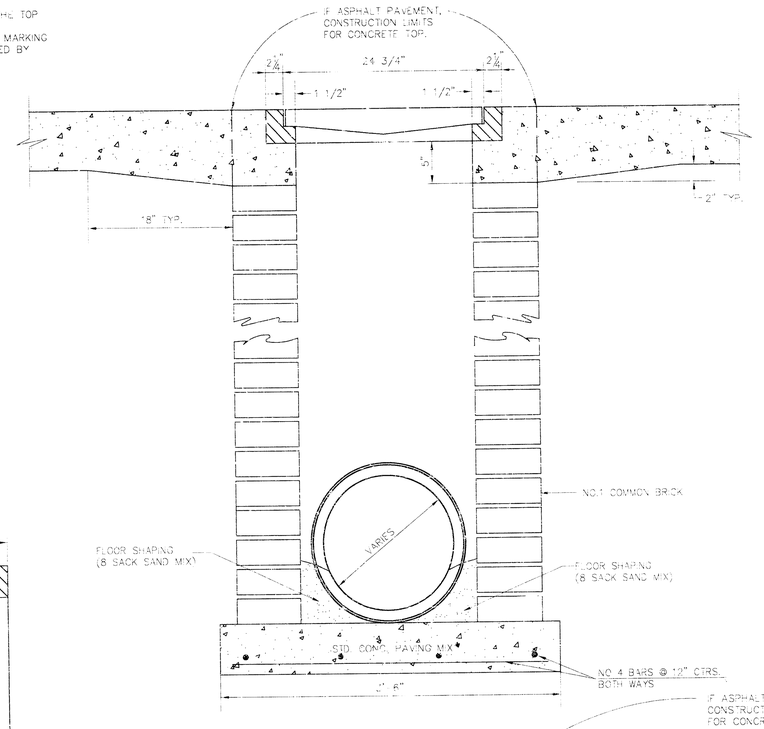
24"x24" GRATE DETAIL

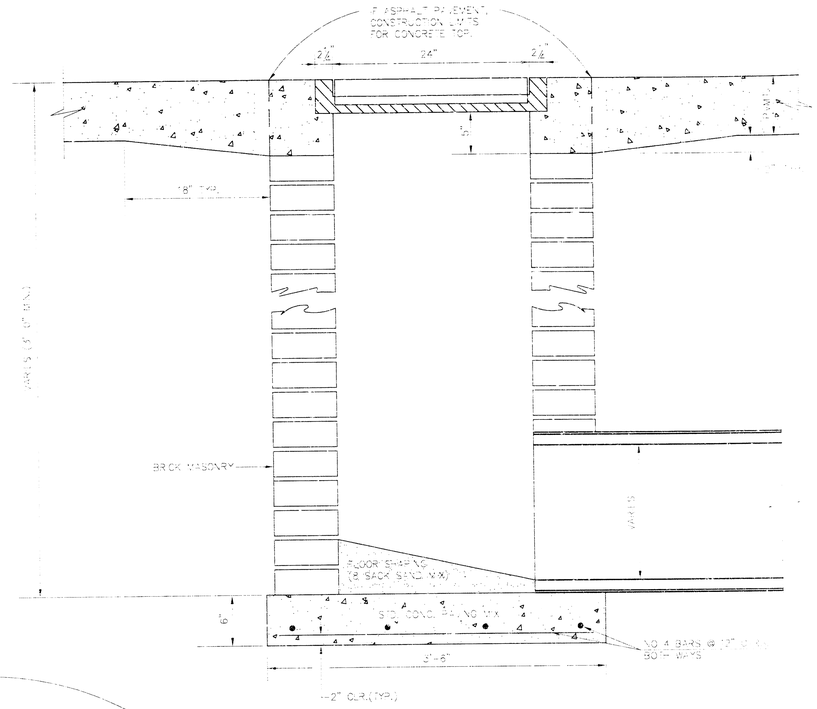


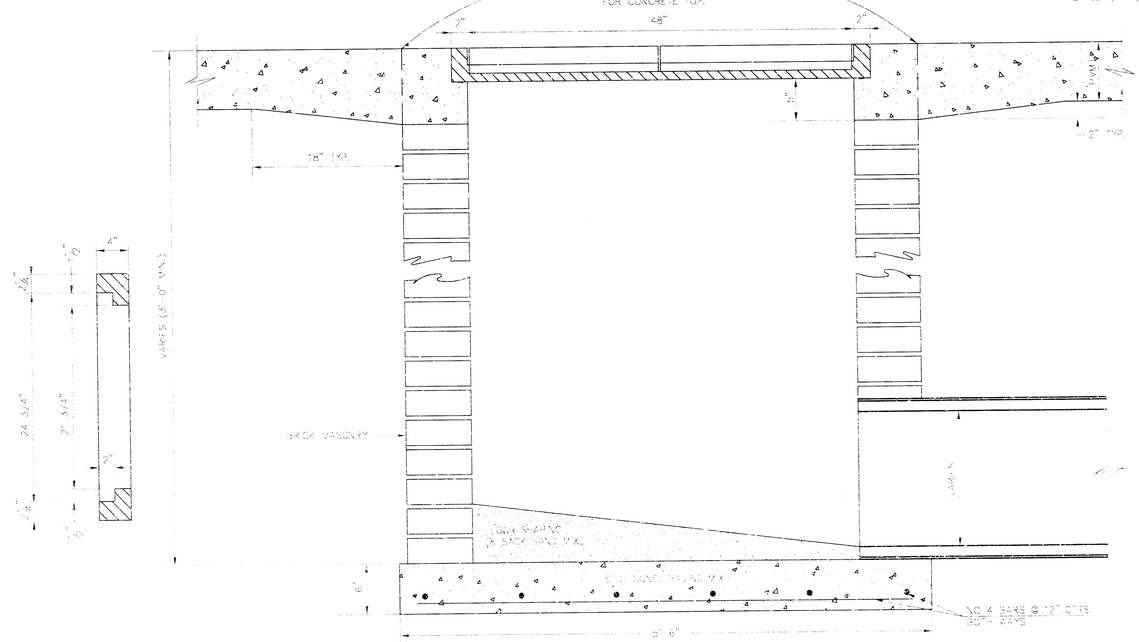
SINGLE 24"x24" FRAME DETAIL



DOUBLE 24"x24" FRAME DETAIL







ORIFICE EQUATION		
$Q=CA\sqrt{2gh}$		C=0.60
h (DEPTH)	#2433 (SINGLE)	#2434 (DOUBLE)
0.1	1.95 cfs	3.89 cfs
0.2	2.75 cfs	5.50 cfs
0.3	3.37 cfs	6.74 cfs
0.4	3.89 cfs	7.78 cfs
0.5	4.35 cfs	8.70 cfs
0.6	4.77 cfs	9.53 cfs
0.7	5.15 cfs	10.30 cfs
0.8	5.50 cfs	11.01 cfs
0.9	5.84 cfs	11.67 cfs
1.0	6.15 cfs	12.30 cfs

REVISED: 5-8-90 JNJ

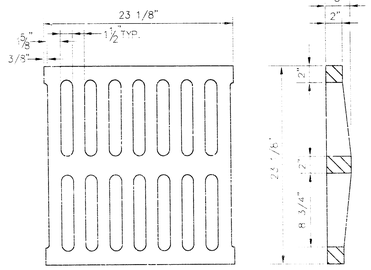
2/9

DROP INLET DETAILS

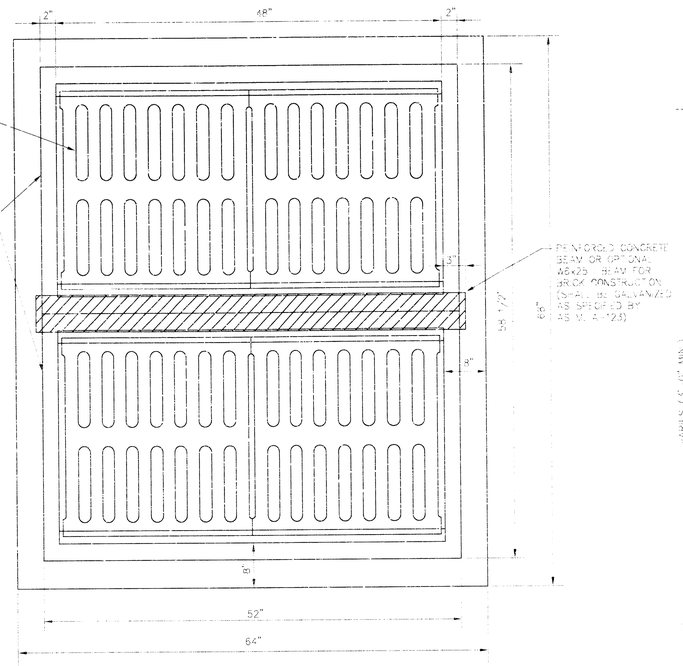
CITY OF WICHITA, KANSAS

Design	Checked by	Checked by	
Drawn by	Date	Date	Job No.

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 USED ONLY IF APPROVED BY THE ENGINEER.

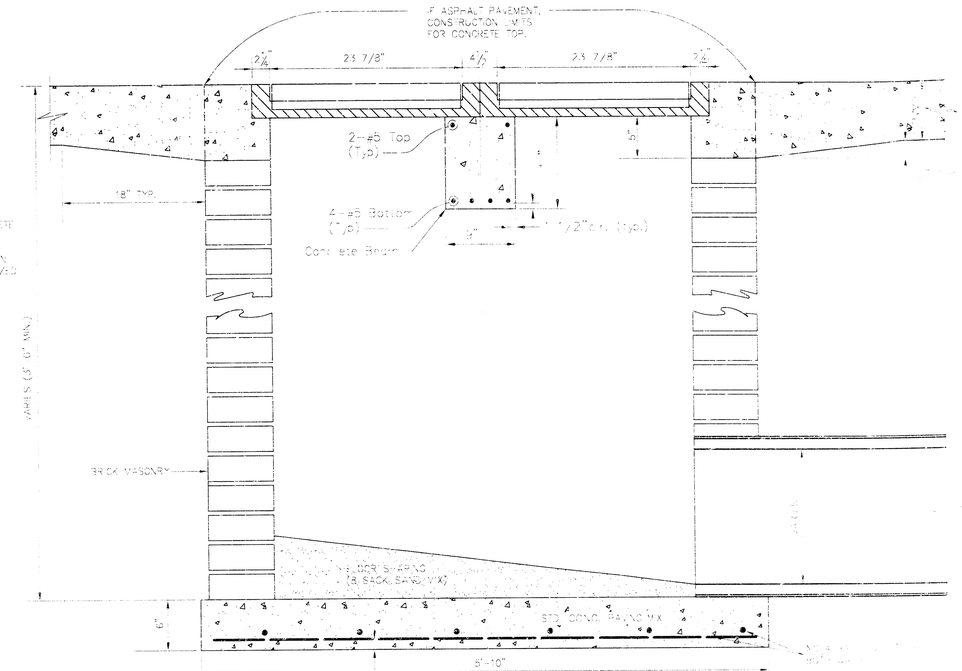


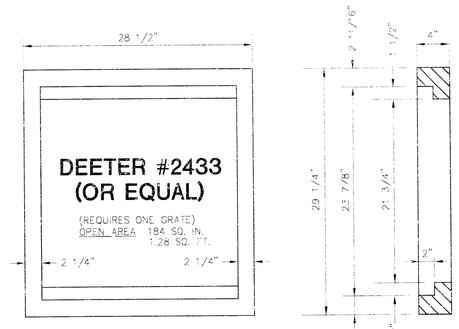
24"x24" GRATE DETAIL



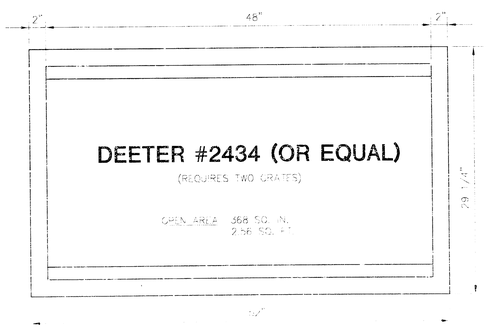
ALTERNATE 2-DOUBLE DROP INLET

(USING BEAM INSTEAD OF 2 COMMON WALLS)
(REQUIRES FOUR GRATES)

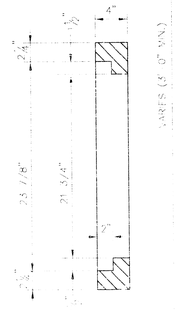


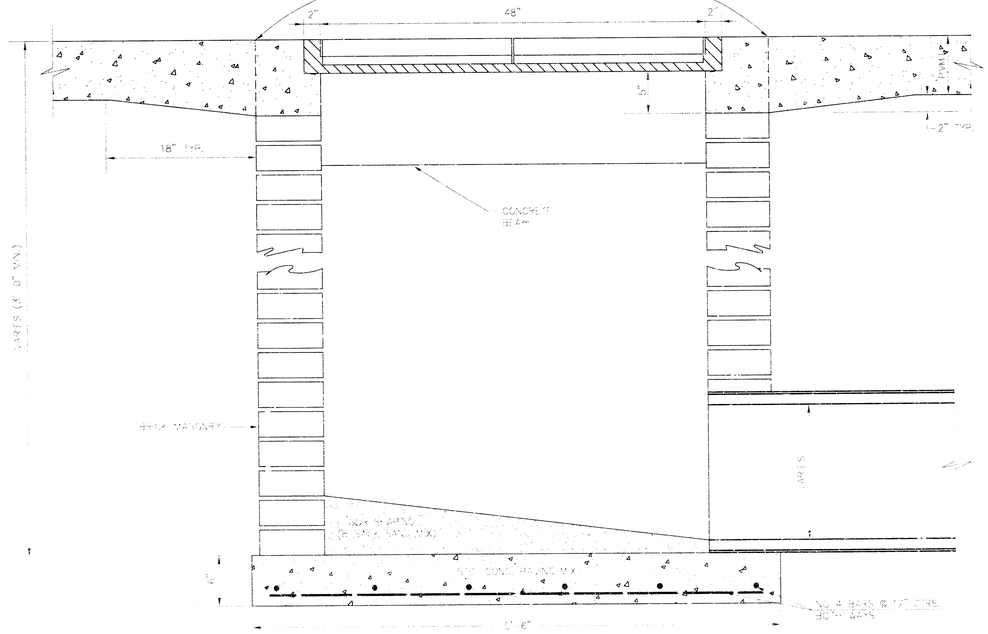


SINGLE 24"x24" FRAME DETAIL



DOUBLE 24"x24" FRAME DETAIL





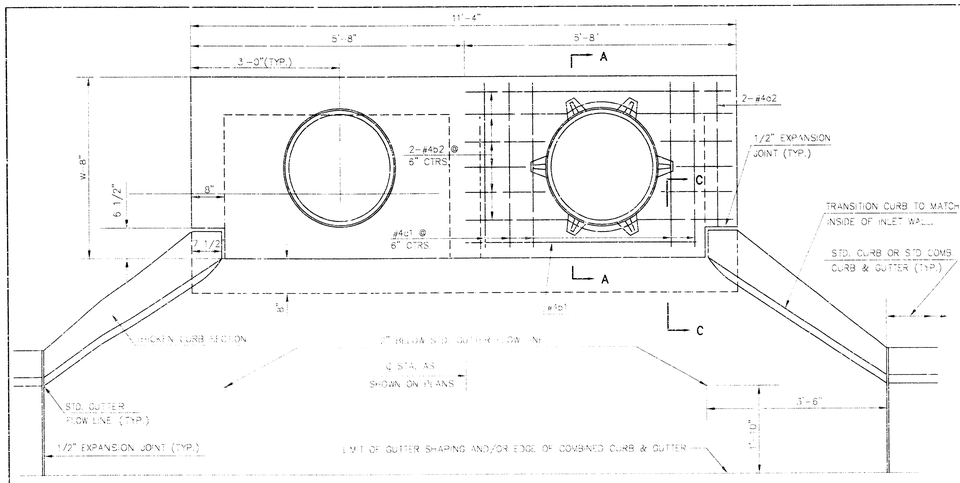
ORIFICE EQUATION		
h (DEPTH)	#2435 (SINGLE)	#2434 (DOUBLE)
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
1.0		

REVISED: 5-8-90 JNJ

DROP INLET DETAILS

CITY OF WICHITA, KANSAS

Design	Checked by	Checked by	
Drawn by	Date	Date	Job No.

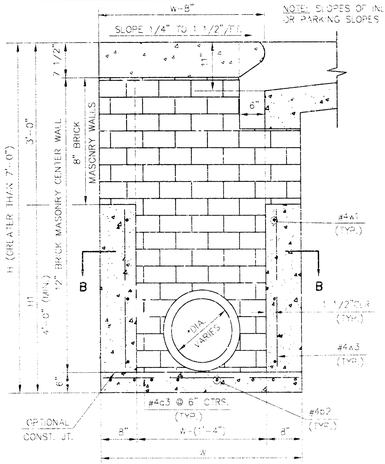


SLAB REINFORCING NOT SHOWN

PLAN

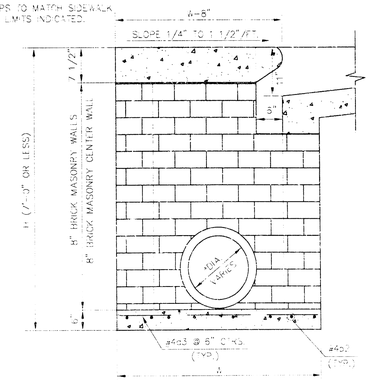
SHOWING SLAB REINFORCING

NOTE: EXPANSION JOINT ONLY IN CURB AREA WITH CONCRETE PAVEMENT.



TYPICAL INLET SECTION AT CENTER WALL

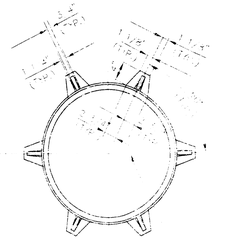
(REINFORCED CONCRETE WALLS)

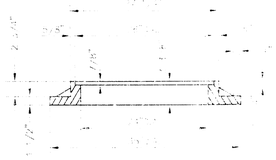


TYPICAL INLET SECTION AT CENTER WALL

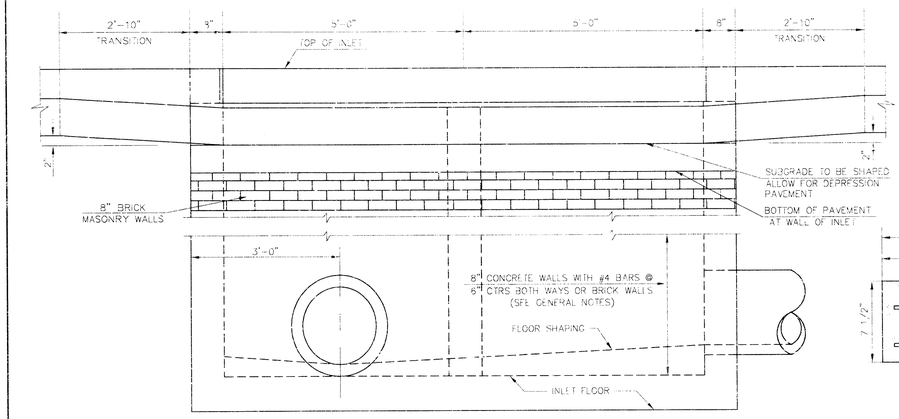
(MASONRY WALLS)

* A CENTER WALL OPENING SHALL BE PROVIDED BY MEANS OF A SECTION OF REINFORCED CONCRETE PIPE. SEE CASE 1 AND CASE 2 BELOW.

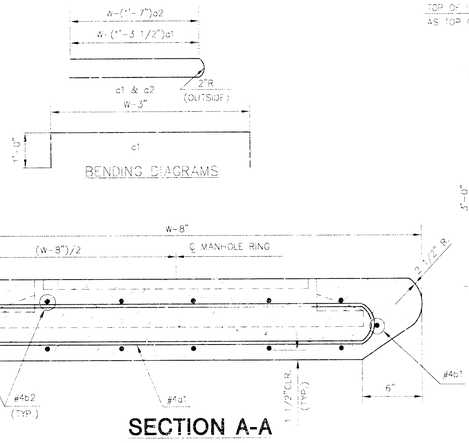




CAST IRON INLET RING

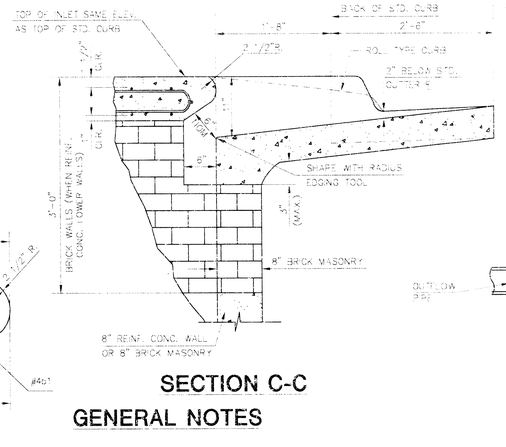


ELEVATION

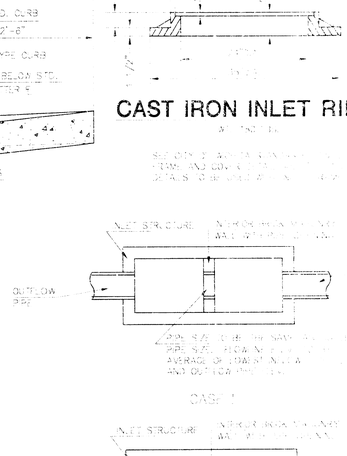


BENDING DIAGRAMS

SECTION A-A

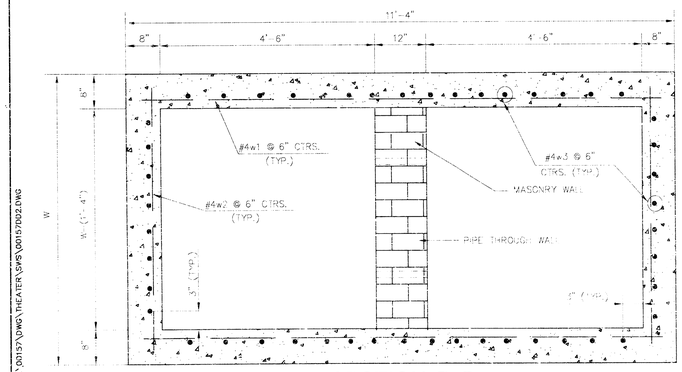


SECTION C-C



GENERAL NOTES

1. THE CONTRACTOR SHALL BE REQUIRED TO CONSTRUCT 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP ON THE INLET WHEN W=5'-4" OR LESS AND H=7'-0" 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 AND THE CENTER WALL SHALL BE OF MASONRY CONSTRUCTION AS SHOWN FOR THE MASONRY WALL OPTION.
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. CONCRETE TOPS TO BE AS ALLED ON THIN MORTAR CUSH ON TO INSURE ALL SUPPORT ALONG BRICK WALLS. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE USED FOR INLET CONSTRUCTION SHALL BE CONCRETE PAVEMENT, "X".
4. INLET TOP REINFORCING SHALL BE SPACED ON 6" MAX. CENTERS. INLET TOPS SHALL BE NOTCHED OUT AS NECESSARY TO FACILITATE CONSTRUCTION OF CURB. BARS IN INLET TOP TO BE FIELD BENT OUT OF THE WAY AT THE MANHOLE RING.
5. THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.



SECTION B-B

SLAB AND FLOOR REINFORCING

MARK	SIZE	W=4'-4" NO.	W=4'-4" LENGTH	W=5'-4" NO.	W=5'-4" LENGTH	W=6'-4" NO.	W=6'-4" LENGTH	W=7'-4" NO.	W=7'-4" LENGTH	W=8'-4" NO.	W=8'-4" LENGTH
a1	#4	13	6'-7 1/4"	13	8'-7 1/4"	13	10'-7 1/4"	13	12'-7 1/4"	13	14'-7 1/4"
a2	#4	2	6'-0"	2	8'-0"	2	10'-0"	2	12'-0"	2	14'-0"
a3	#4	20	4'-1"	20	5'-1"	20	6'-1"	20	7'-1"	20	8'-1"
b1	#4	1	9'-8"	1	9'-8"	1	9'-8"	1	9'-8"	1	9'-8"
*b2	#4	18	11'-1"	24	11'-1"	30	11'-1"	36	11'-1"	42	11'-1"

WALL REINFORCING

MARK	SIZE	W=4'-4" NO.	W=4'-4" LENGTH	W=5'-4" NO.	W=5'-4" LENGTH	W=6'-4" NO.	W=6'-4" LENGTH	W=7'-4" NO.	W=7'-4" LENGTH	W=8'-4" NO.	W=8'-4" LENGTH
c1	#4	4	8'-1"	4	9'-1"	4	8'-1"	4	9'-1"	4	10'-1"
a4	#4	①	11'-1"	①	11'-1"	①	11'-1"	①	11'-1"	①	11'-1"
a2	#4	①	4'-1"	①	5'-1"	①	6'-1"	①	7'-1"	①	8'-1"
a4	#6	②	③	②	③	②	③	②	③	②	③

* FIELD BEND OR CUT REINFORCING AS REQUIRED FOR CLEARANCE
① (4'-6") x 4 (11'-6") ROUNDED DOWN TO NEAREST 0.5'
② 40 x 4 (N. 6")
③ 11'-1" + (9")

STANDARD CURB INLET PRECAST DATA			
A (MIN. CAST TOP S.F.)	H (MAX. CAST TOP S.F.)	CAST TOP SLAB REINF. (SEE NOTE 3)	CAST TOP SLAB CONC. (SEE NOTE 3)
4'-4"	5'-8"x1'-4"x4"x7 1/2"	21" & 24"	0.85±
5'-4"	4'-8"x1'-4"x4"x7 1/2"	24" & 30"	1.09±
6'-4"	5'-8"x1'-4"x4"x7 1/2"	36" & 42"	1.35±
7'-4"	6'-8"x1'-4"x4"x7 1/2"	48" & 54"	1.61±
8'-4"	7'-8"x1'-4"x4"x7 1/2"	60" & 66"	1.87±

REVISED: 12-5-86 C.O.W.

STANDARD TYPE 1A CURB INLET

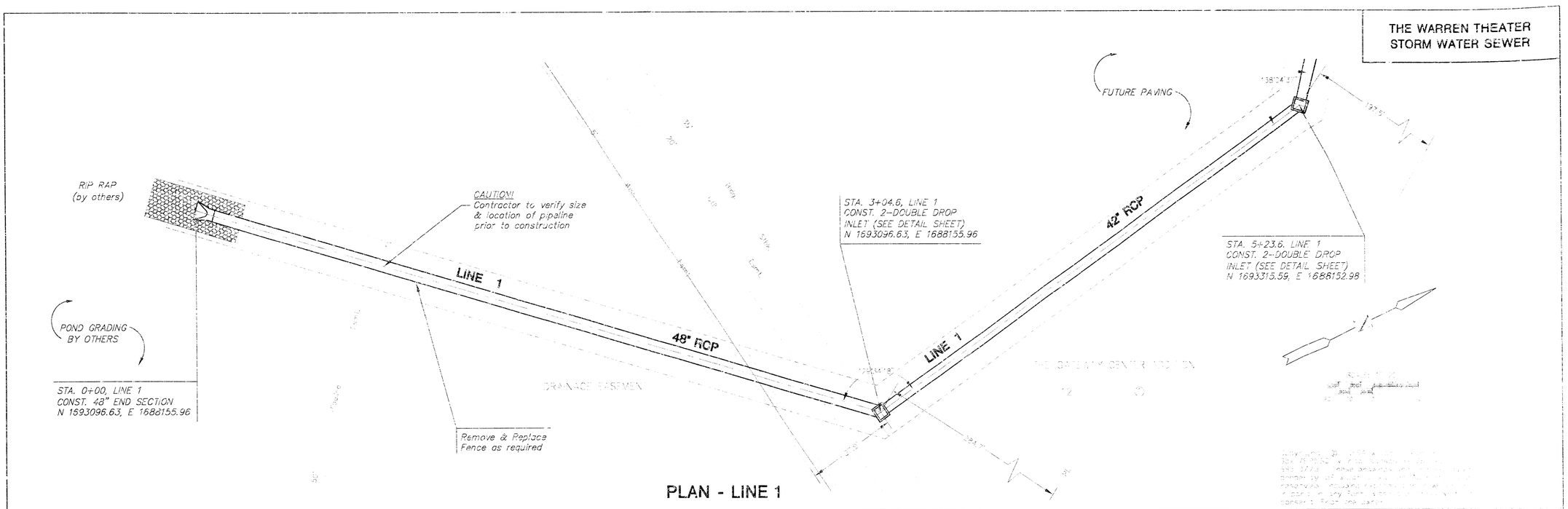
NOV. 1984

CITY OF WICHITA, KANSAS

Design BDR KJS MTD	Checked by	Checked by	
Drawn by	Date	Date	Job No.

H:\CIVIL\00157\DWG\THEATER\SPEC\00157D02.DWG

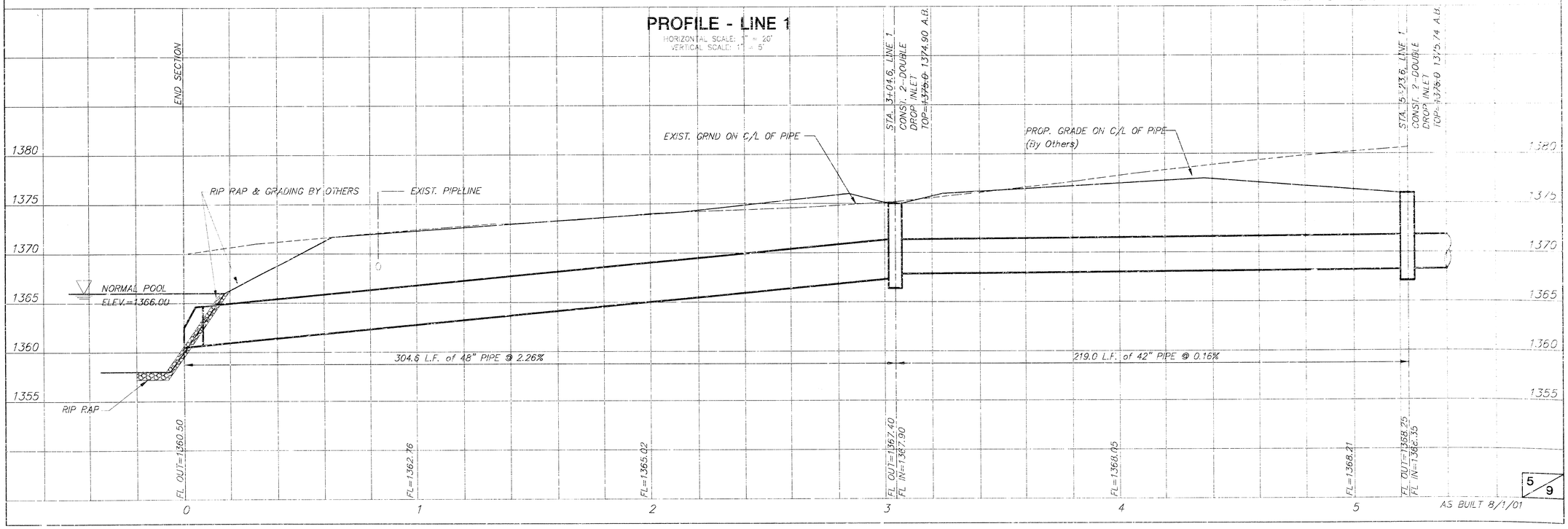
THE WARREN THEATER
STORM WATER SEWER



PLAN - LINE 1

PROFILE - LINE 1

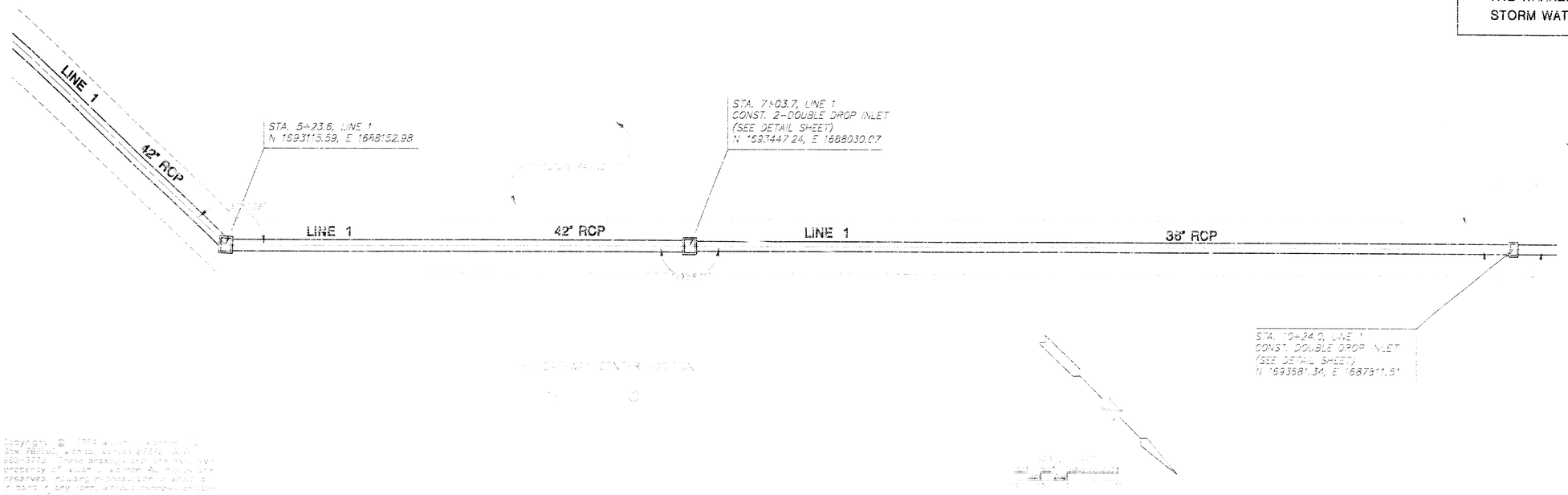
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'



AS BUILT 8/1/01

5/9

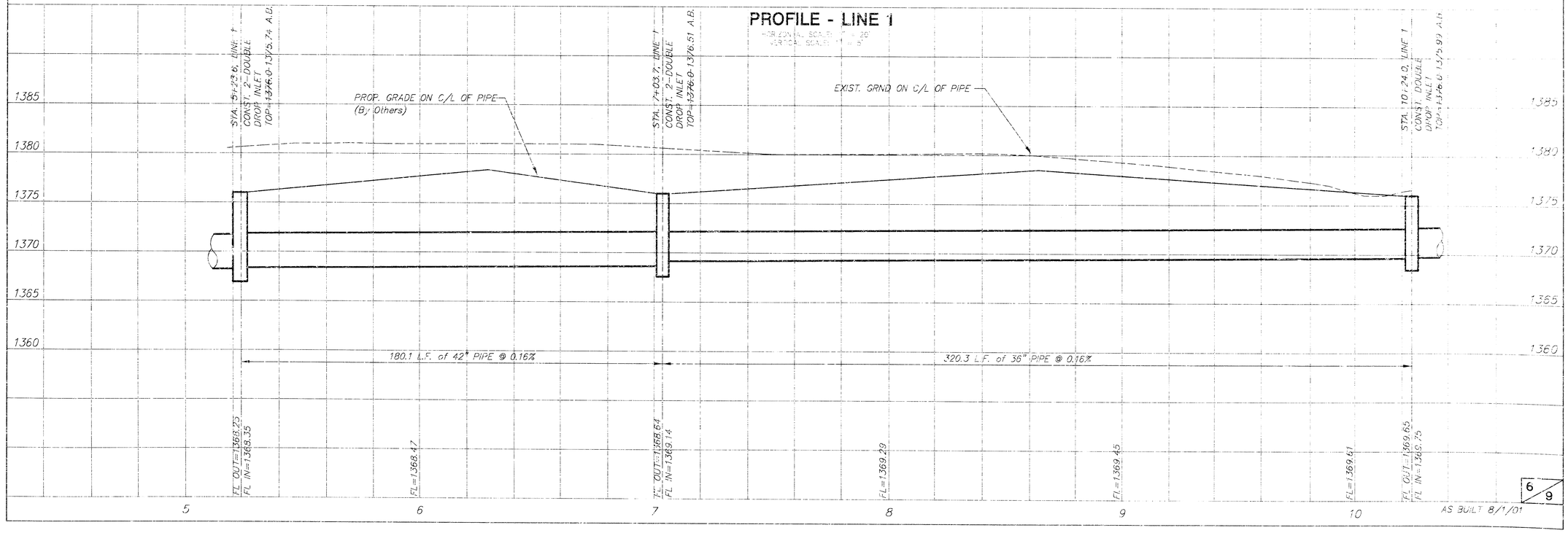
THE WARREN THEATER
STORM WATER SEWER



PLAN - LINE 1

PROFILE - LINE 1

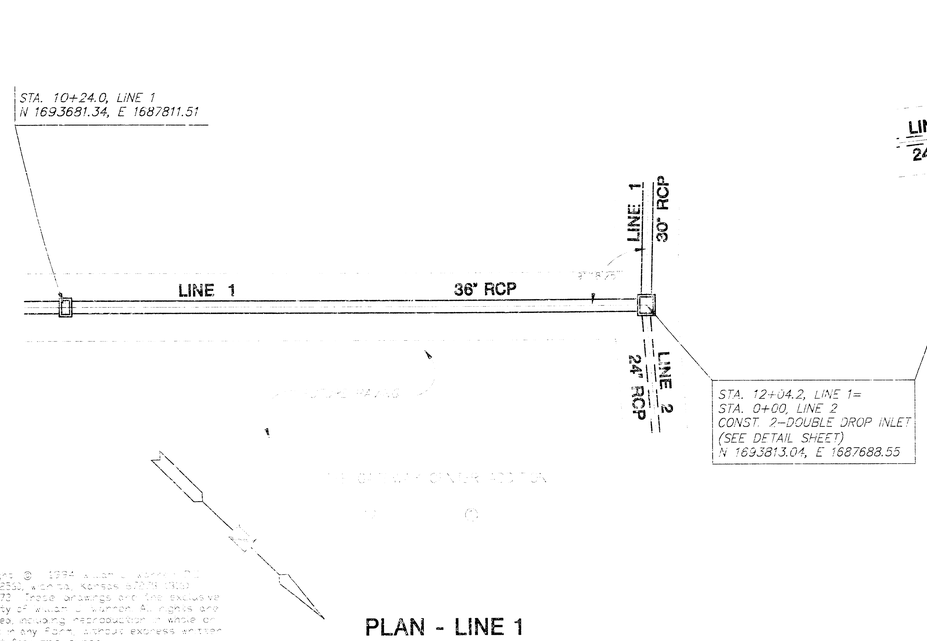
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'



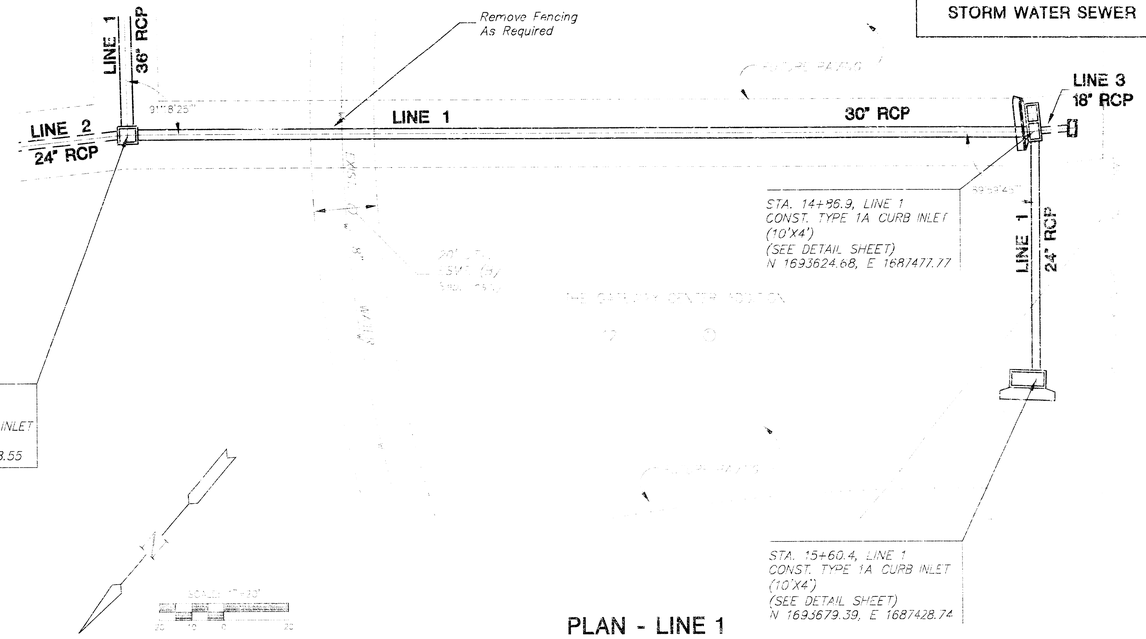
AS BUILT 8/1/01

6/9

THE WARREN THEATER
STORM WATER SEWER



PLAN - LINE 1

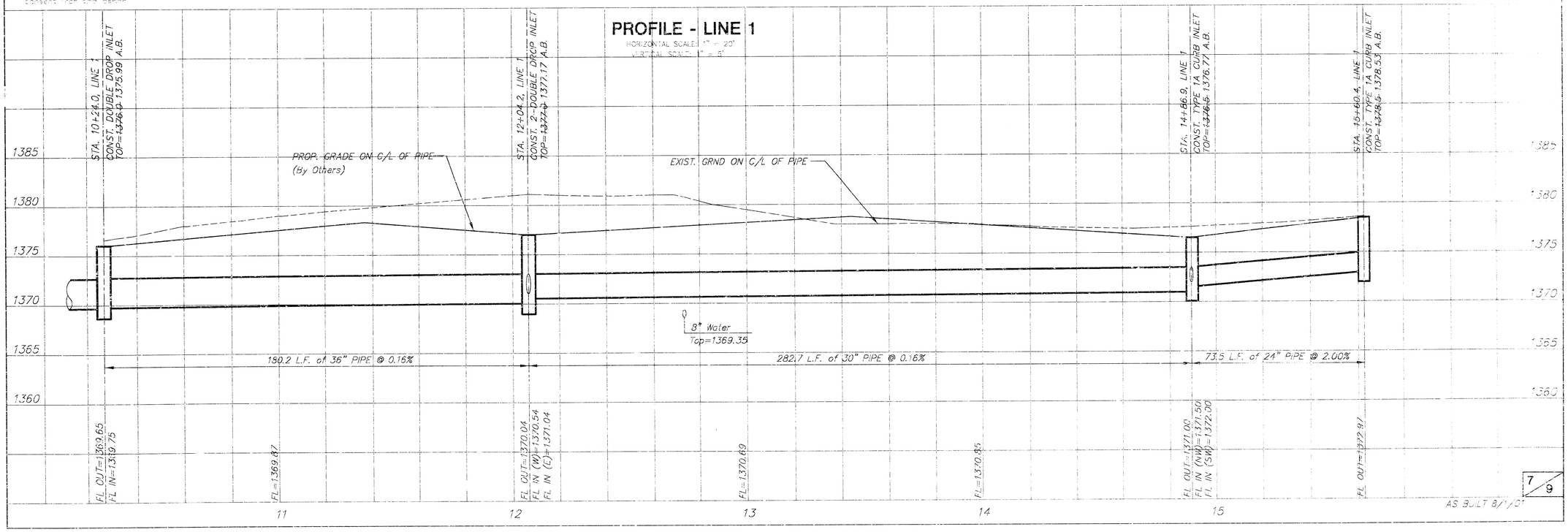


PLAN - LINE 1

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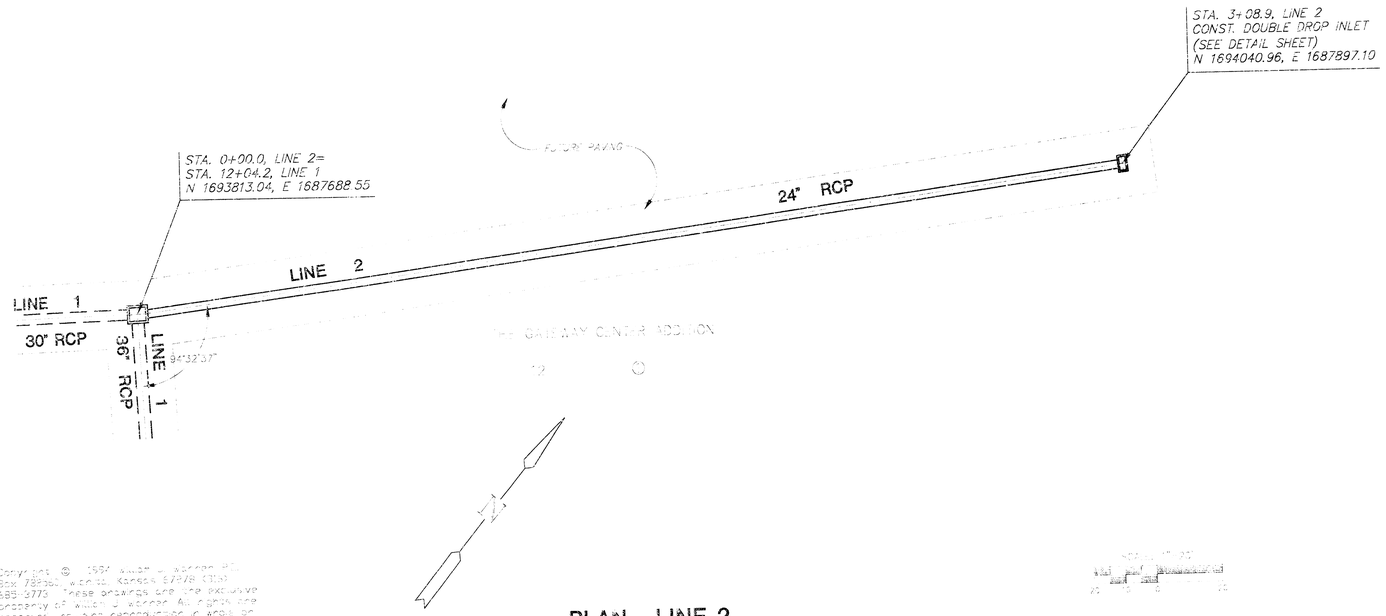
PROFILE - LINE 1

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

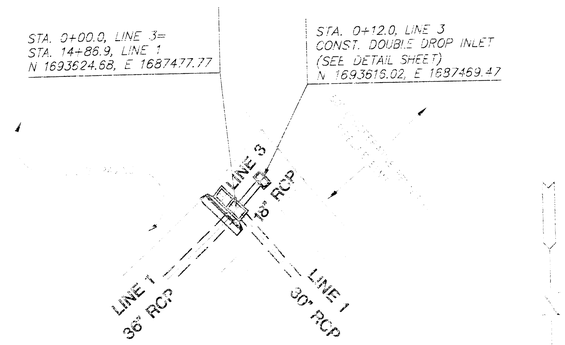


AS BUILT 8/1/01

THE WARREN THEATER
STORM WATER SEWER



PLAN - LINE 2

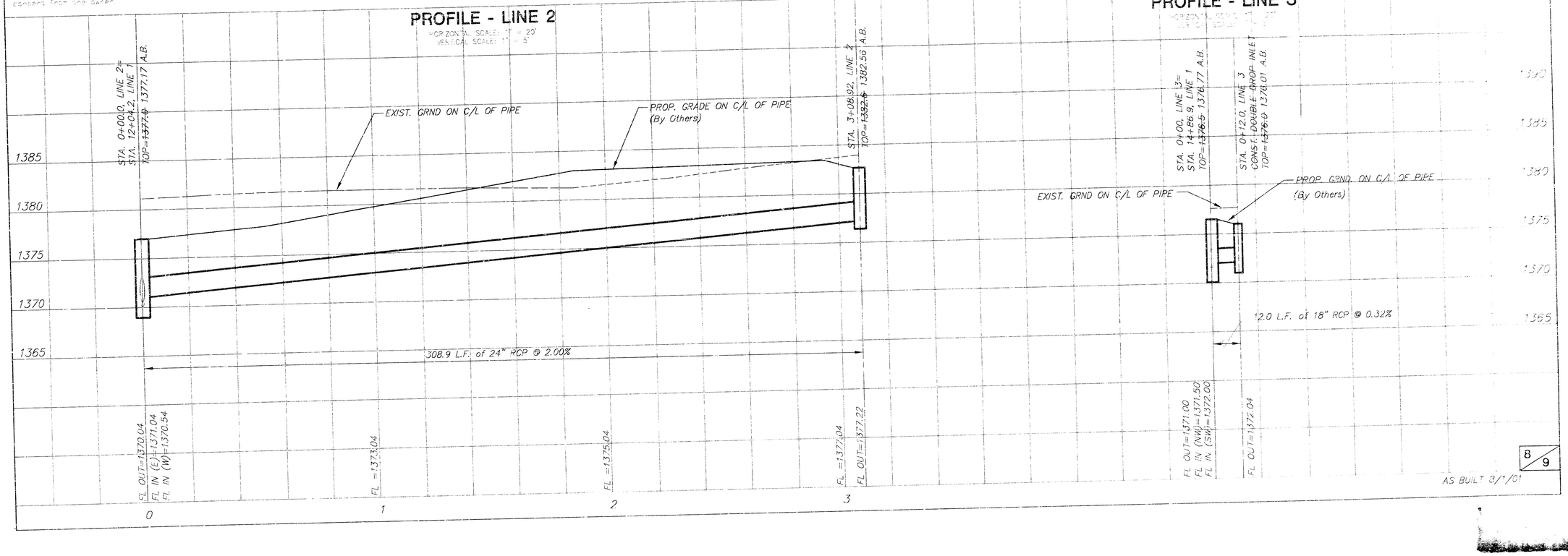


PLAN - LINE 3

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PROFILE - LINE 2

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'



PROFILE - LINE 3

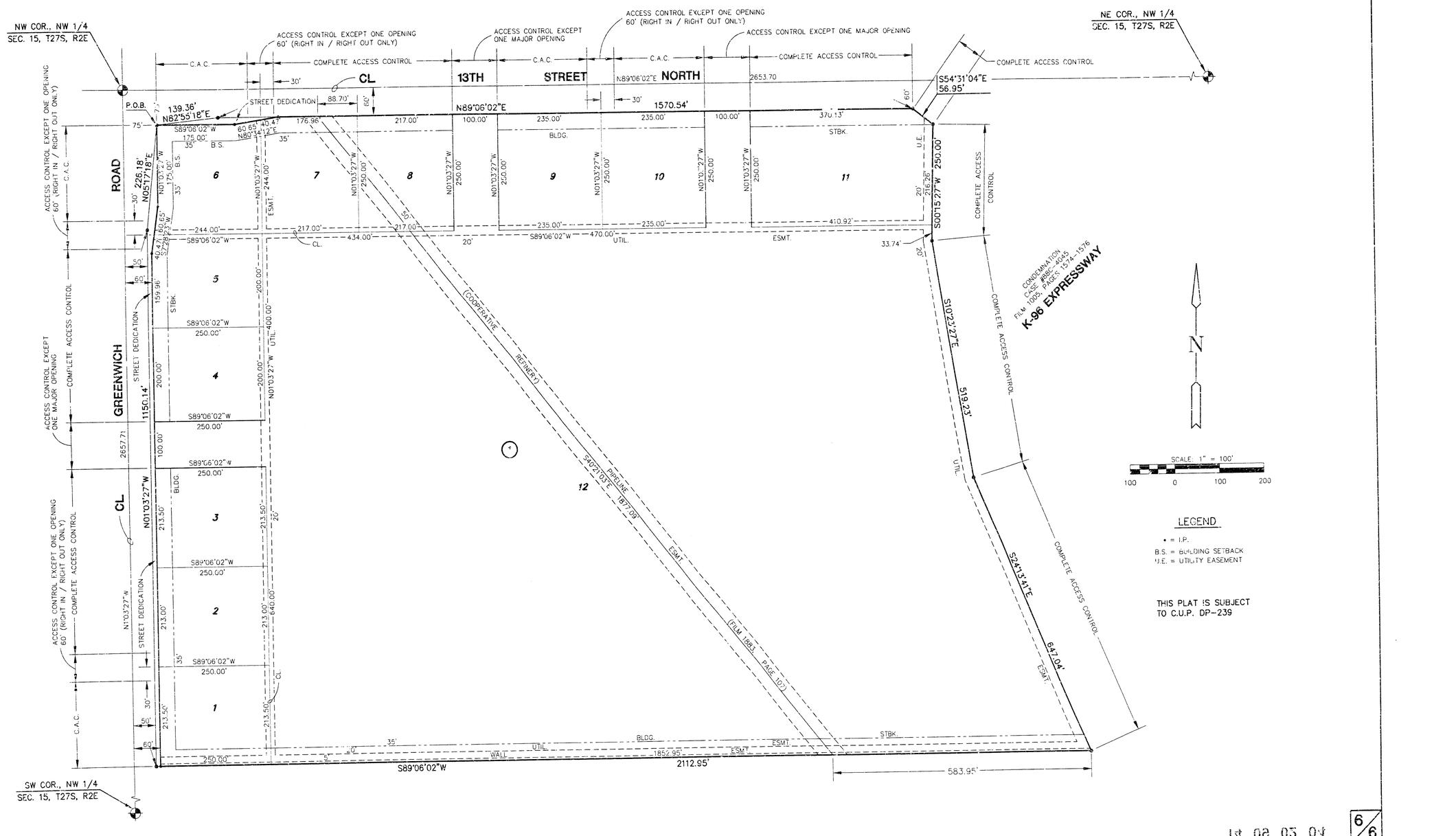
8/9

AS BUILT 8/1/01

FINAL PLAT

THE GATEWAY CENTER ADDITION

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS



LEGEND

- • = I.P.
- B.S. = BUILDING SETBACK
- U.E. = UTILITY EASEMENT

THIS PLAT IS SUBJECT TO C.U.P. DP-239