

PRIVATE STORM WATER SEWER TO SERVE CHURCH OF THE MAGDALEN ADDITION

Private Project Number

1032 PPS (607861)

CITY OF WICHITA, KANSAS
Michael E. Lindebak, P.E. City Engineer
September 2000

BENCHMARK:

COUNTY Benchmark #1:
"Q" Cut South Headwall 1/2 mile West of
127th Street East on 37th Street North.
Elevation = 1387.56 msl

Benchmark #2:
"Q" in "Open" of Fire Hydrant On East Side
of 127th Street East Approximately 354'
North of Intersection of 127th Street East
& 21st Street North
Elevation = 1385.33 msl

Benchmark #3:
Top of Iron Pipe S.E. Corner, Sec. 3, T27S, R2E
Intersection of 127th Street East
& 21st Street North.
Elevation = 1385.41 msl

LEGAL DESCRIPTION:

Lot 1, Block A, & Reserve "A", Church of the Magdalen Addition, Wichita, Sedgwick County, Kansas.

INDEX:

Title Sheet	1
Plan/Profile Sheet	2-5
Pond Plan	6
Pond Cross Sections	7-8
Detail Sheets	9-10
Copy Of Plat	11

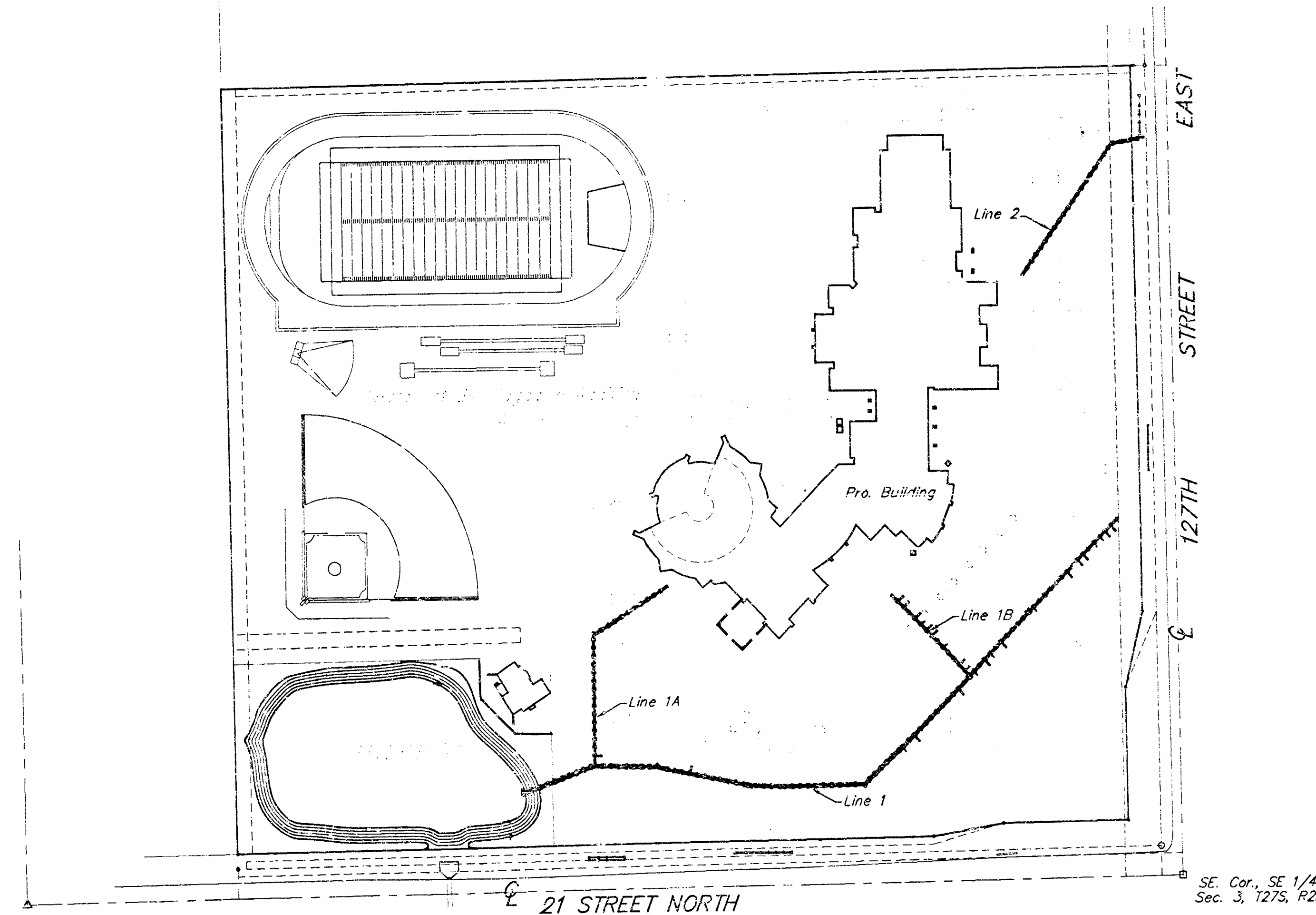
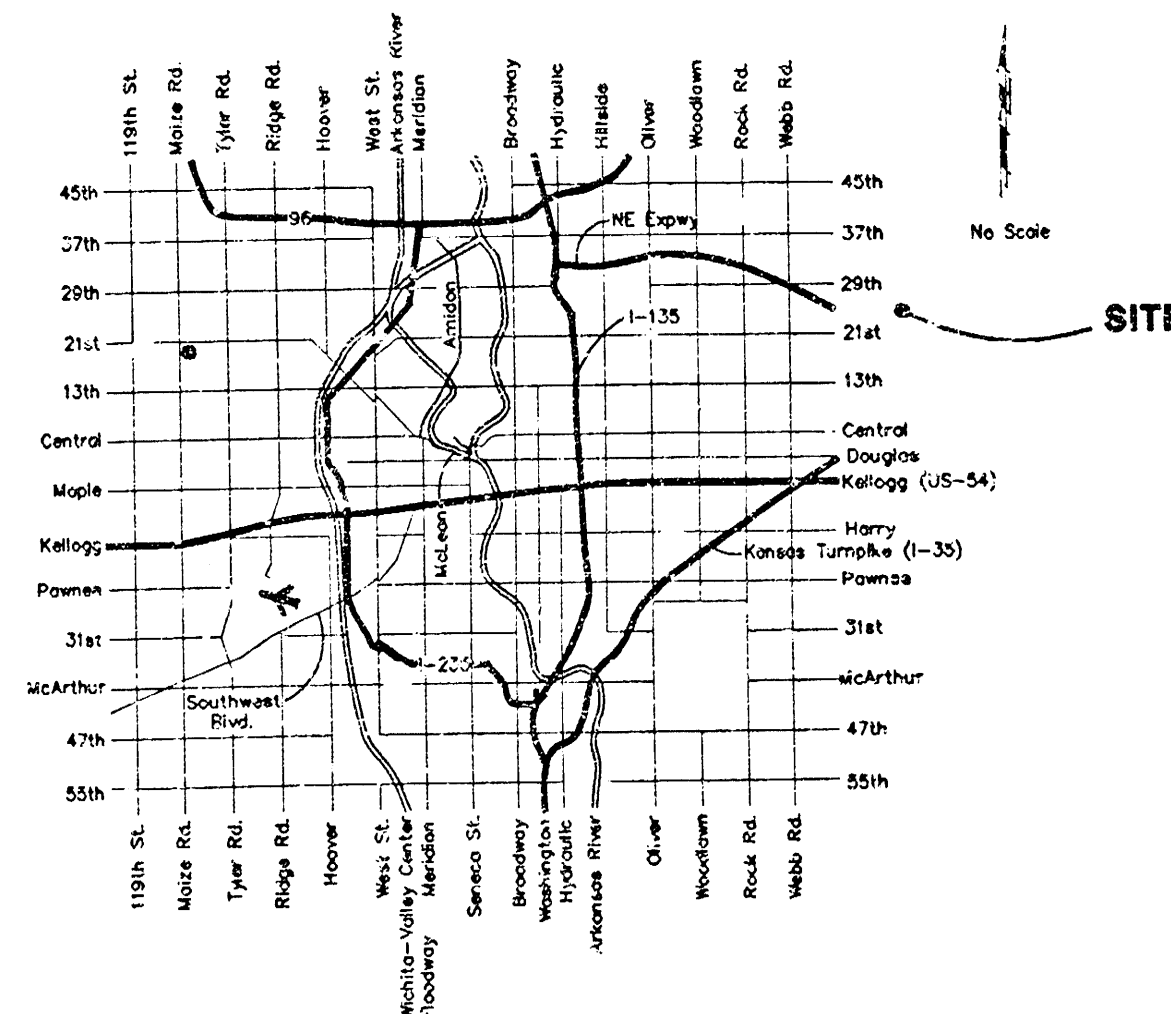
APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

Storm Sewers VRH 9/14/00

NOTE TO CONTRACTORS

Installation, inspection and testing for the storm sewer is 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 Professional Engineer. No work shall be performed in dedicated easements or public right-of-way by the Contractor without such inspection nor shall any 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).

LOCATION MAP



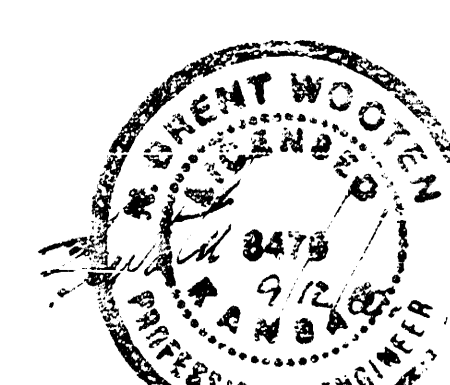
SCALE:
1" = 150'

SE. Cor., SE 1/4,
Sec. 3, T27S, R2E

GENERAL NOTES:

- Contractor will be required to provide notice to utility companies a minimum of forty-eight (48) 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
Kansas Gas Service Company 383-8500
Kansas Gas & Electric Company 383-8550
Peoples Gas Company 942-7600
Southwestern Bell Telephone Company 1-571-2611
City of Wichita Water Department 265-4908
City of Wichita Sewer Department 268-4071
Conoco Pipe Line Company 681-2081
- Utility service lines, poles, valve boxes, meters, at cetera are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. Existing utilities and their location, as shown on the plans represent the best information obtainable for design and shall be field verified. The contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.
- Contractor shall not start work on the project until the project inspector is assigned to the project and is present on the site. Any work done without inspection will be required to be uncovered for inspection.
- Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed of on sites to be provided by the Contractor. These sites shall be approved by the Engineer as to suitability, appearance and site location. Locations that, in the opinion of the Engineer, will leave an unsightly appearance will not be approved. All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiled or disposed of in a flood plain would require a Kansas State Board of Agriculture permit. Any material dumped in waters of the United States or wetlands is subject to U.S. Corps of Engineers permitting regulations. Any material buried or stockpiled beyond approved construction limits would require additional archaeological investigations unless buried in a previously approved borrow location.
- Should construction stop for longer than 15 days, the site shall be seeded as specified.
- All areas disturbed by construction at the proposed site shall be seeded as follows:
SEED-- to be drilled or hydroseeded
4 lbs. per 1000 s.f. of K-31 Fescue (PLS)
6 lbs. per 1000 s.f. of Rye Grass (PLS)
2 lbs. per 1000 s.f. of Bromegrass (PLS)
MULCH--
2 tons of Prairie Hay or Bromegrass Hay per Acre--
"patted" with forks or punched into soil to reduce loss due to wind.
EROSION MAT--
North American Green S75 Erosion Control Blanket
Install Per Manufacturers Specifications.
For Additional Information Call North American Green, Inc.
At 800-772-2040.
- All necessary permits must be obtained from the governing authority prior to construction.

Booked
5-31-02
MCG
C-214



As Built w/01 KK

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
114-269-7271 • 216 BLUE • 4000 N. KANSAS ST., WICHITA, KS 67210

4-09-01-07

BENCHMARKS:

COUNTY Benchmark #1:

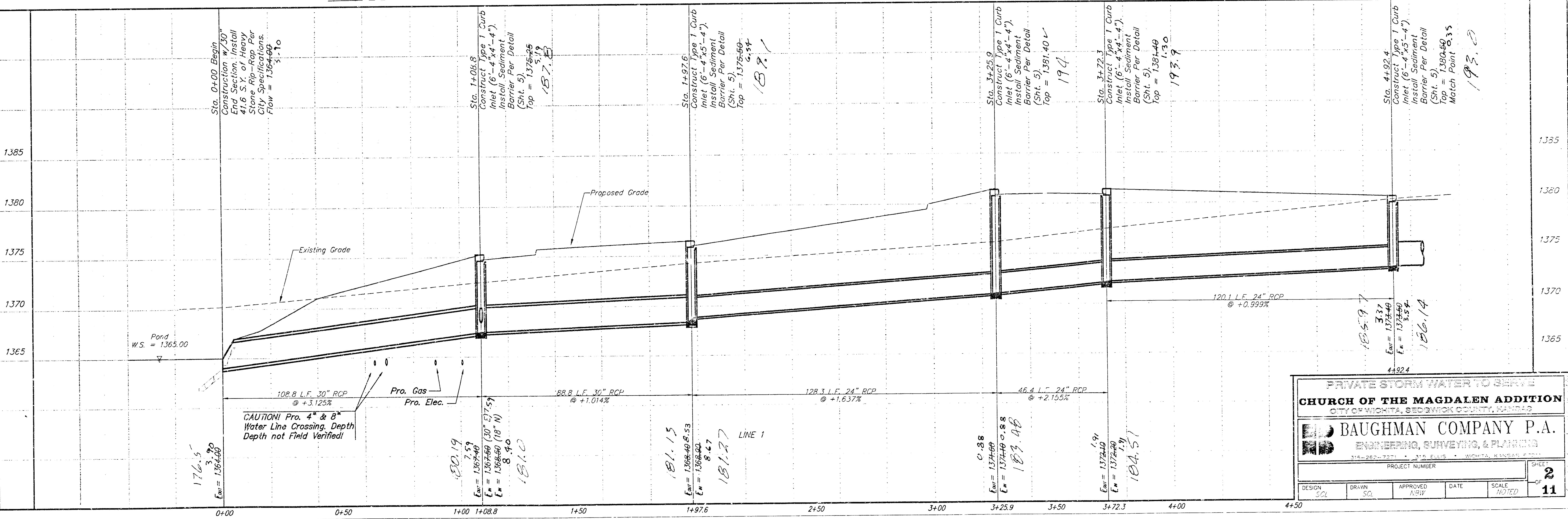
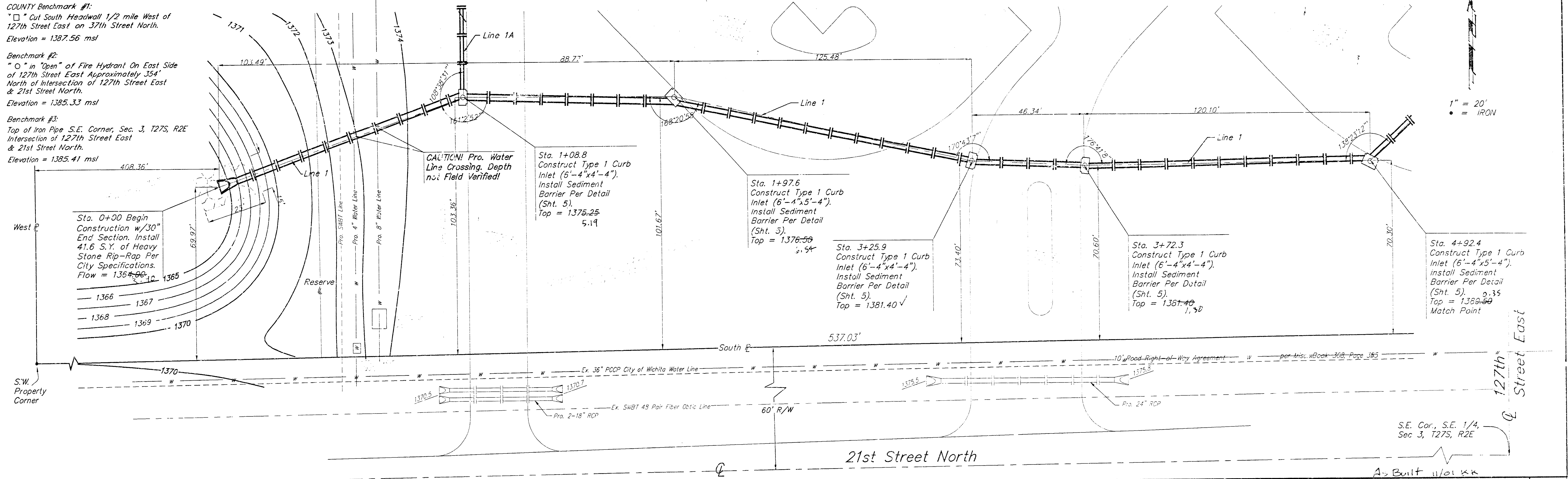
"O" Cut South Headwall 1/2 mile West of 127th Street East on 37th Street North.
Elevation = 1387.56 msl

Benchmark #2:

"O" in "Open" of Fire Hydrant On East Side of 127th Street East Approximately 354' North of Intersection of 127th Street East & 21st Street North.
Elevation = 1385.33 msl

Benchmark #3:

Top of Iron Pipe S.E. Corner, Sec. 3, T27S, R2E Intersection of 127th Street East & 21st Street North.
Elevation = 1385.41 msl



PRIVATE STORM WATER TO SERVE
CHURCH OF THE MAGDALEN ADDITION
CITY OF WICHITA, SEDGWICK COUNTY, KANSAS

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING

PROJECT NUMBER: 2
SHEET: 11

DESIGN: SQ
DRAWN: SQ
APPROVED: NAW
DATE: NOTED
SCALE: NOTED

BENCHMARKS:

COUNTY Benchmark #1:

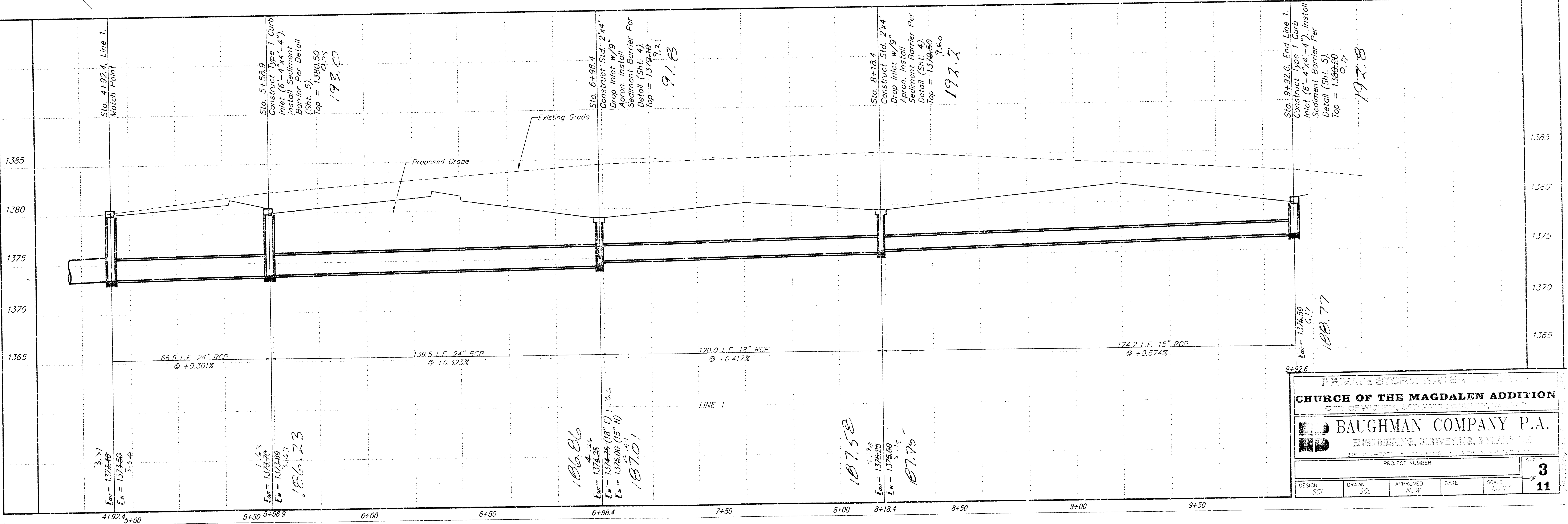
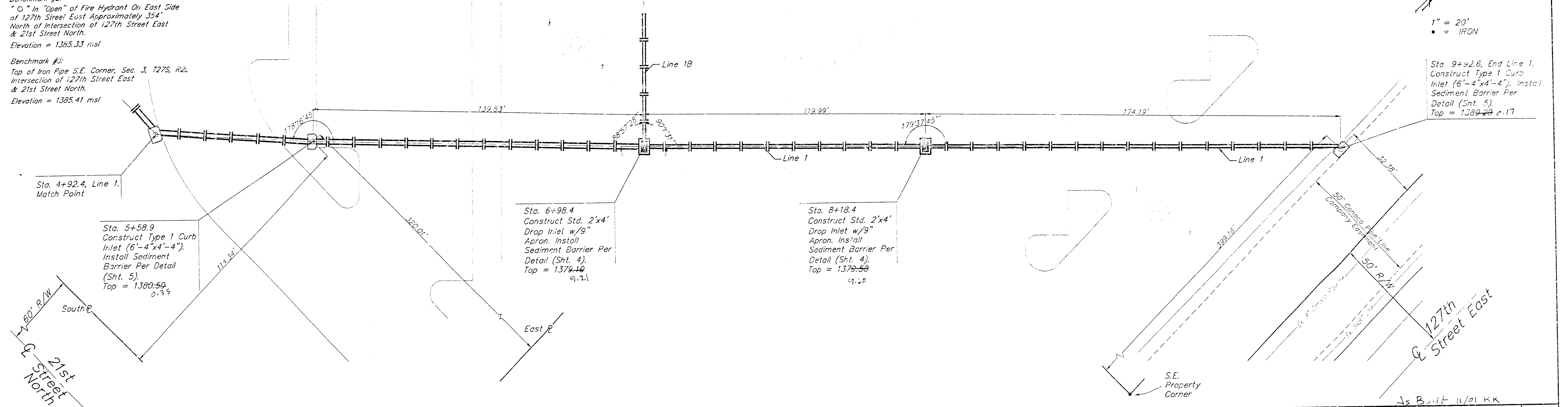
"X" Cut South Headwall 1/2 mile West of 127th Street East Approximately 334' North of Intersection of 127th Street East & 21st Street North.
Elevation = 1387.56 msl

Benchmark #2:

"O" In "Open" of Fire Hydrant On East Side of 127th Street East Approximately 334' North of Intersection of 127th Street East & 21st Street North.
Elevation = 1385.33 msl

Benchmark #3:

Top of Iron Pipe S.E. Corner, Sec. 3, T27S, R2L Intersection of 127th Street East & 21st Street North.
Elevation = 1385.41 msl

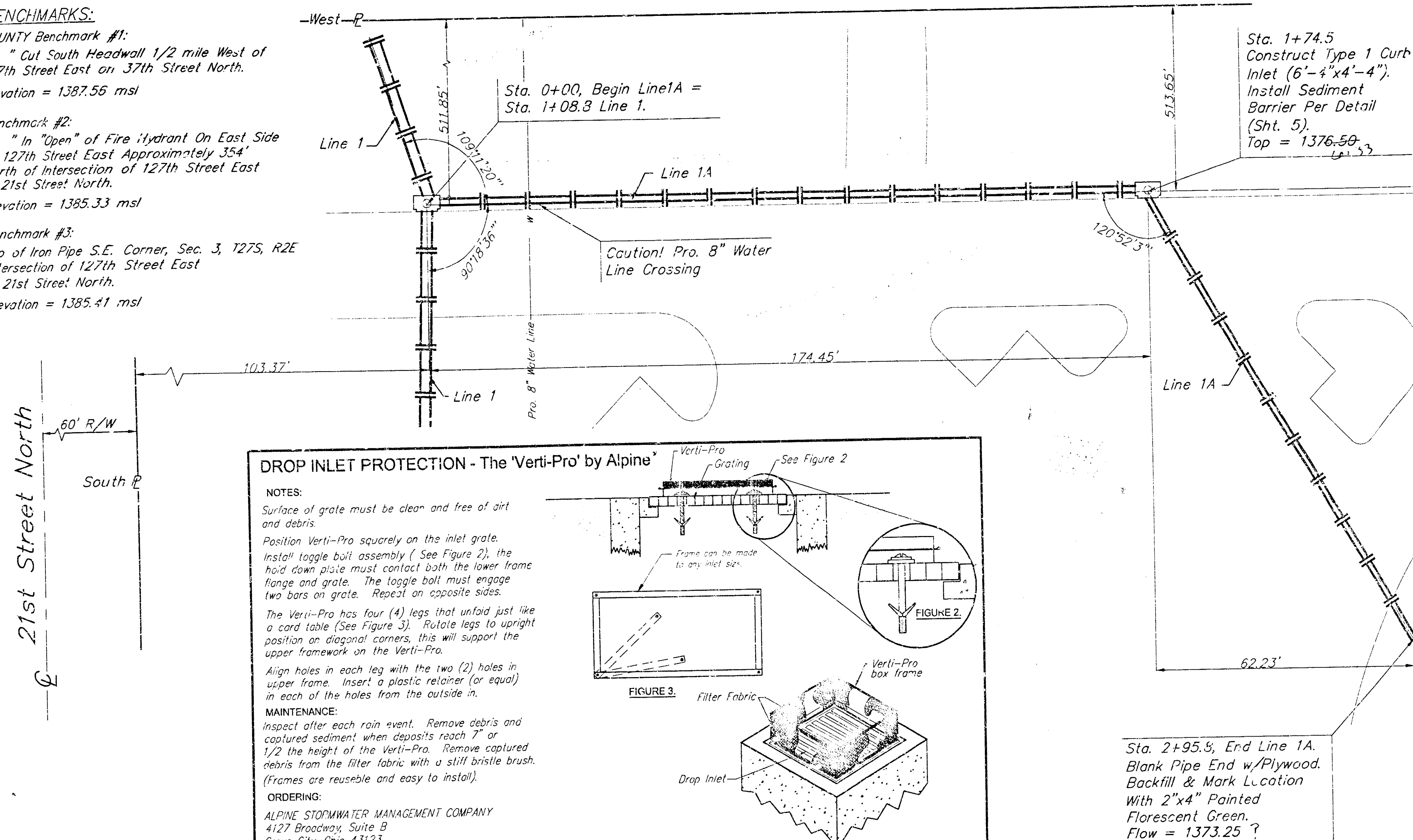


BENCHMARKS:

COUNTY Benchmark #1:
"Cut South Headwall 1/2 mile West of
127th Street East on 37th Street North.
Elevation = 1387.56 msl

Benchmark #2:
"In Open" of Fire Hydrant On East Side
of 127th Street East Approximately 354'
North of Intersection of 127th Street East
& 21st Street North.
Elevation = 1385.33 msl

Benchmark #3:
Top of Iron Pipe S.E. Corner, Sec. 3, T27S, R2E
Intersection of 127th Street East
& 21st Street North.
Elevation = 1385.41 msl



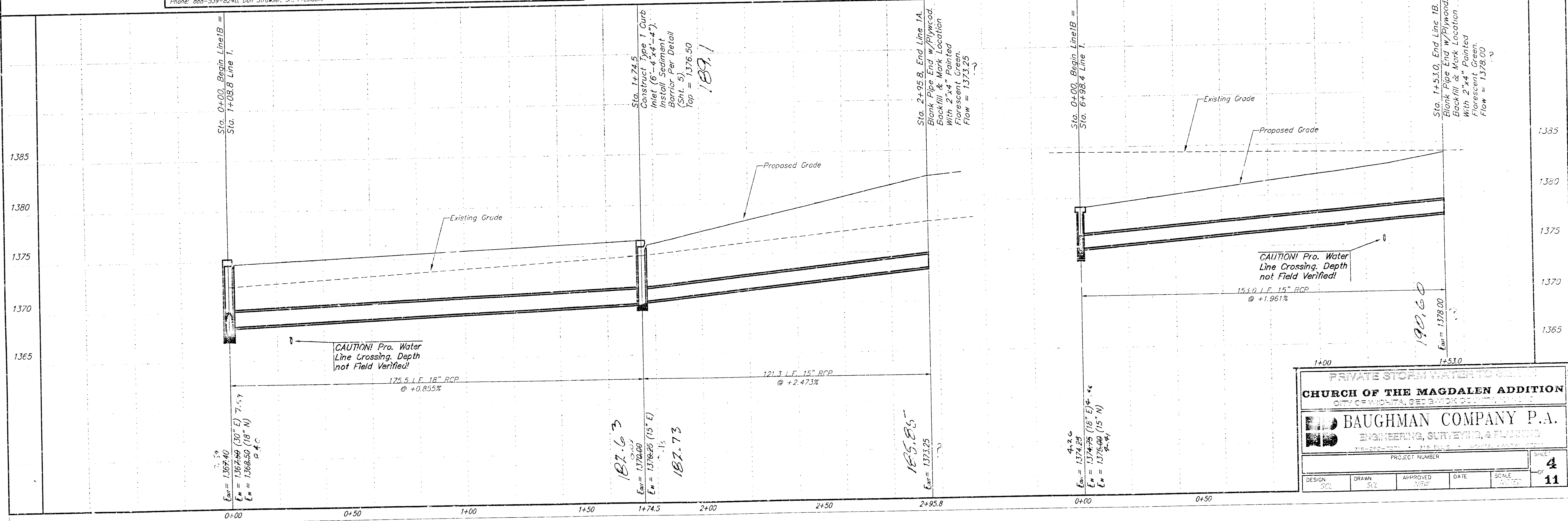
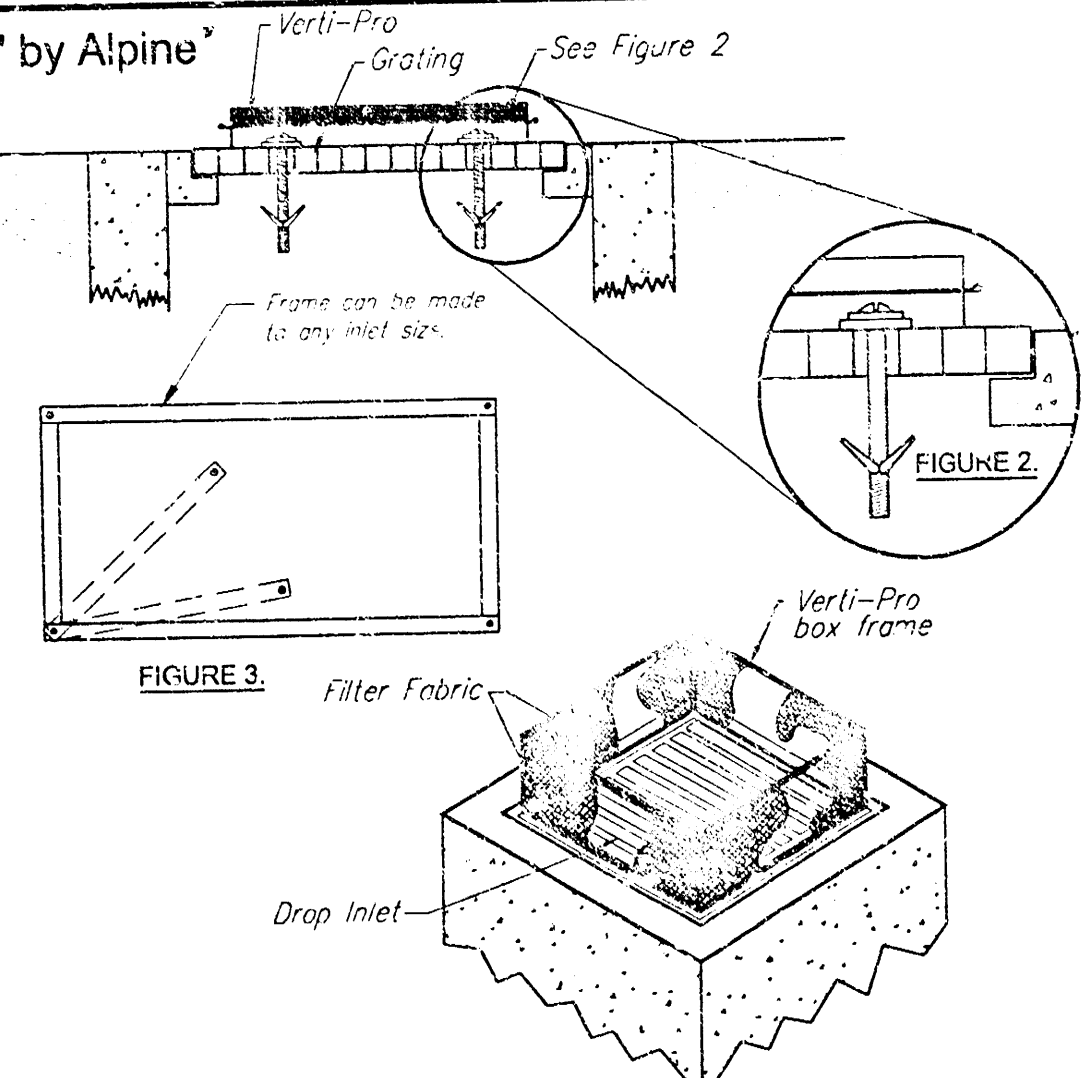
DROP INLET PROTECTION - The 'Verti-Pro' by Alpine

NOTES:

Surface of grate must be clean and free of dirt and debris.
Position Verti-Pro squarely on the inlet grate.
Install toggle ball assembly (See Figure 2), the
hook down plate must contact both the lower frame
flange and grate. The toggle ball must engage
two bars on grate. Repeat on opposite sides.
The Verti-Pro has four (4) legs that unfold just like
a card table (See Figure 3). Rotate legs to upright
position on diagonal corners, this will support the
upper framework on the Verti-Pro.
Align holes in each leg with the two (2) holes in
upper frame. Insert a plastic retainer (or equal)
in each of the holes from the outside in.

MAINTENANCE:
Inspect after each rain event. Remove debris and
captured sediment when deposits reach 7" or
1/2 the height of the Verti-Pro. Remove captured
debris from the filter fabric with a stiff bristle brush.
(Frames are reusable and easy to install).

ORDERING:
ALPINE STORMWATER MANAGEMENT COMPANY
4127 Broadway, Suite B
Grove City, Ohio 43123
Phone: 608-539-8240, Dan Strawser, Sr., President



PRIVATE STORMWATER TO CHURCH OF THE MAGDALEN ADDITION				
CITY OF GROVE CITY, OHIO				
BAUGHMAN COMPANY P.A.				
ENGINEERING, SURVEYING, & PLANNING				
PROJECT NUMBER				
DESIGN	DRAW	APPROVED	DATE	SCALE
SCL	SCL	NBS		1" = 20'
				SHEET 4
				11

BENCHMARKS:

COUNTY Benchmark #1:
 "X" Cut South Headwall 1/2 mile West of
 127th Street East on 37th Street North.
 Elevation = 1387.56 msl

Benchmark #2:
 "O" in "Open" of Fire Hydrant On East Side
 of 127th Street East Approximately 354'
 North of Intersection of 127th Street East
 & 21st Street North.
 Elevation = 1385.33 msl

Benchmark #3:
 Top of Iron Pipe S.E. Corner, Sec. 3, T27S, R2E
 Intersection of 127th Street East
 & 21st Street North.
 Elevation = 1385.41 msl

Install 2,450 S.Y. North
 American Green S75 Erosion
 Control Blanket Per
 Manufacturers Specifications.
 See Staple Pattern, This Sht.

Install 190 S.Y. of Heavy
 Stone Rip Rap Per City
 Specifications

Caution! SWBT 50 Pair
 Copper Line.

SE COR. LOT 1, BLOCK A,
 MESSIAH BAPTIST CHURCH ADD.

Ex. SWBT 50 Pair
 48 Pair Fiber Optic
 100'±35'±5" W
 20'(N)&(O)

SW Cor., SE 1/4,
 Sec. 3, T27S, R2E

S89°13'21"W 1325.25'(M)

NOTES:

1. Approximate earthwork quantities are as follows:
 Exc. = 32,039 C.Y.
 CF = 105 C.Y.
 LF = 0.0 C.Y.
2. Install erosion control mat as indicated.

Erosion Control Blanket.

Existing 5'x5' RCBC w/ Soil Saver.
 Remove Sediment & Debris from Soil
 Saver. Core Into Center of Soil
 Saver & Extend 2-18" RCP 38.1 L.F.,
 North End Construction w/ End
 Section. Grout & Seal Water Tight.
 $E_{in} = 1365.00$ / $E_{out} = 1364.85$

Install 285 S.Y. of Heavy
 Stone Rip Rap Per City
 Specifications

Caution! Protect
 Ex. F.H. & W.V.

Caution! SWBT 48 Pair
 Fiber Optic Line
 Crossing! Depth Not
 Field Verified!

Caution! 36" PCCP Water
 Line Crossing! Probe
 Depth T.P. = 1359.00

Proposed Detention Pond
 W.S. = 1365.00
 Bottom = 1355.00
 2-Yr W.S. = 1366.92
 5-Yr W.S. = 1368.65
 100-Yr W.S. = 1370.36

Proposed Softball
 Practice

Proposed House
 Location

21 STREET NORTH

Contractor To
 Maintain Guard Rail.

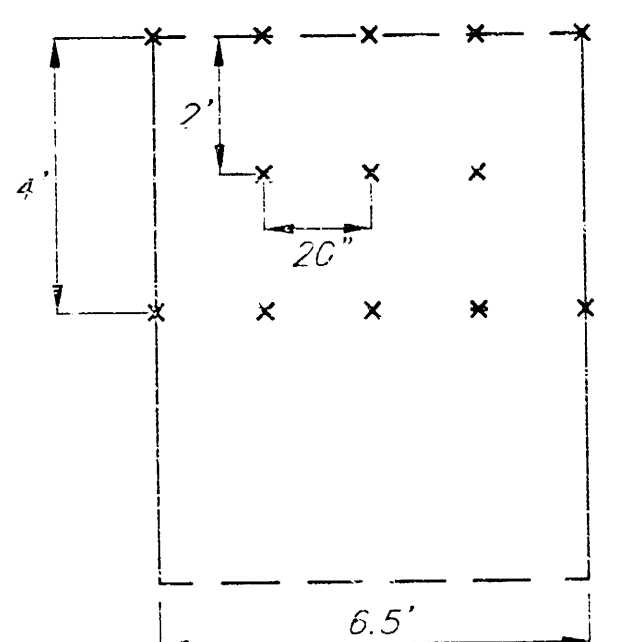
Regrade Both Sides of
 the Ditch & Seed as
 Necessary For Flow.

STAPLE PATTERN "D"

3-1/2 staples per sq. yd.
 using 6-inch, 11 ga. wire
 "U" staples. 8-inch staples
 and longer may be used for
 loose soils. 9 ga. staples
 or heavier may be necessary
 in hard or rocky soils.

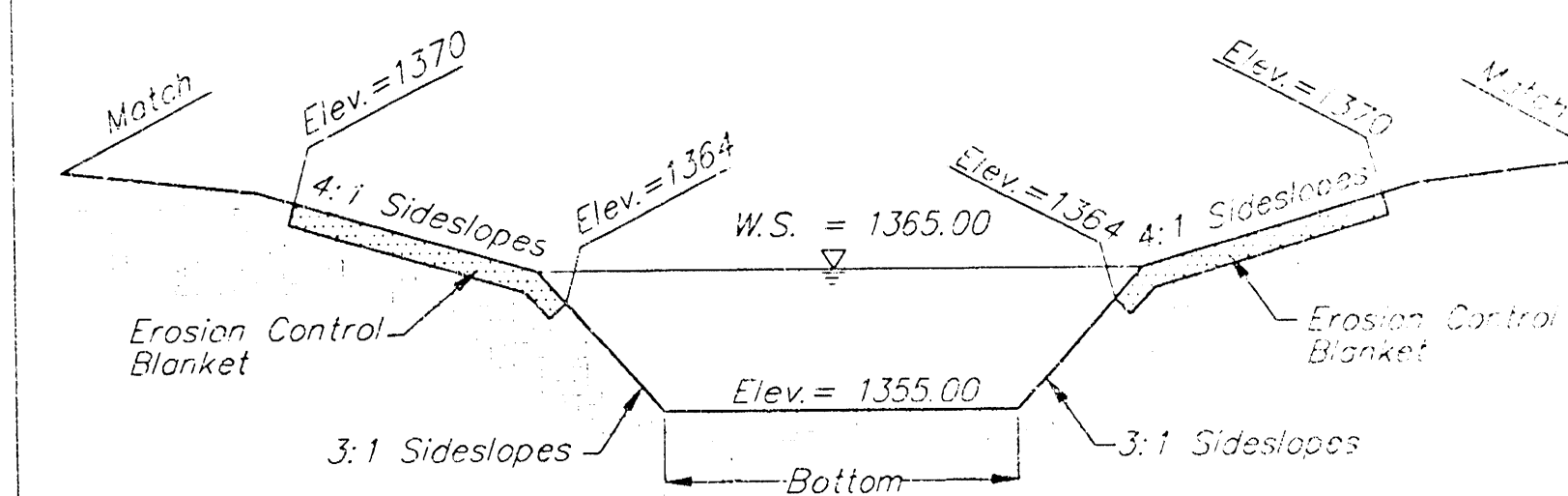
Contractor shall follow manufac-
 turers installation instructions
 regarding overlap dimensions.
 The overlap shall have a minimum
 dimension of three inches (3").

STAPLE PATTERN

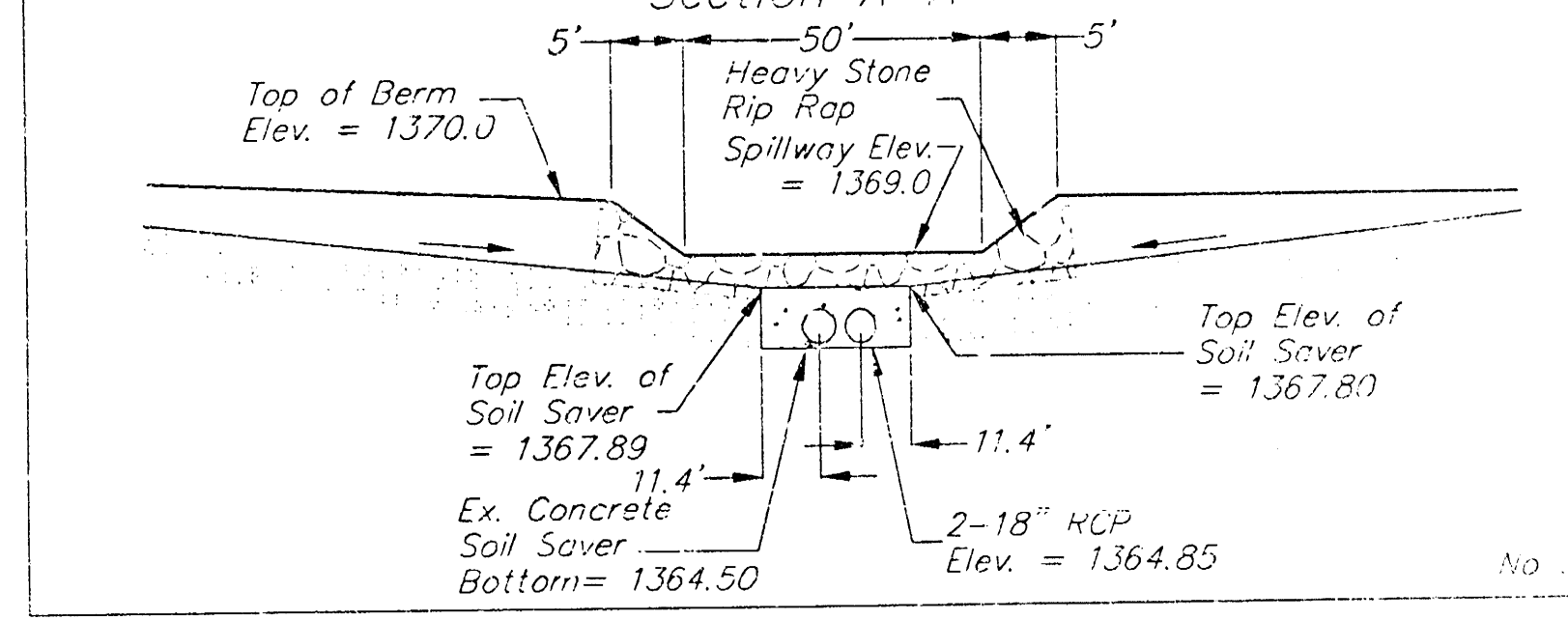


1" = 30'
 • = IRON

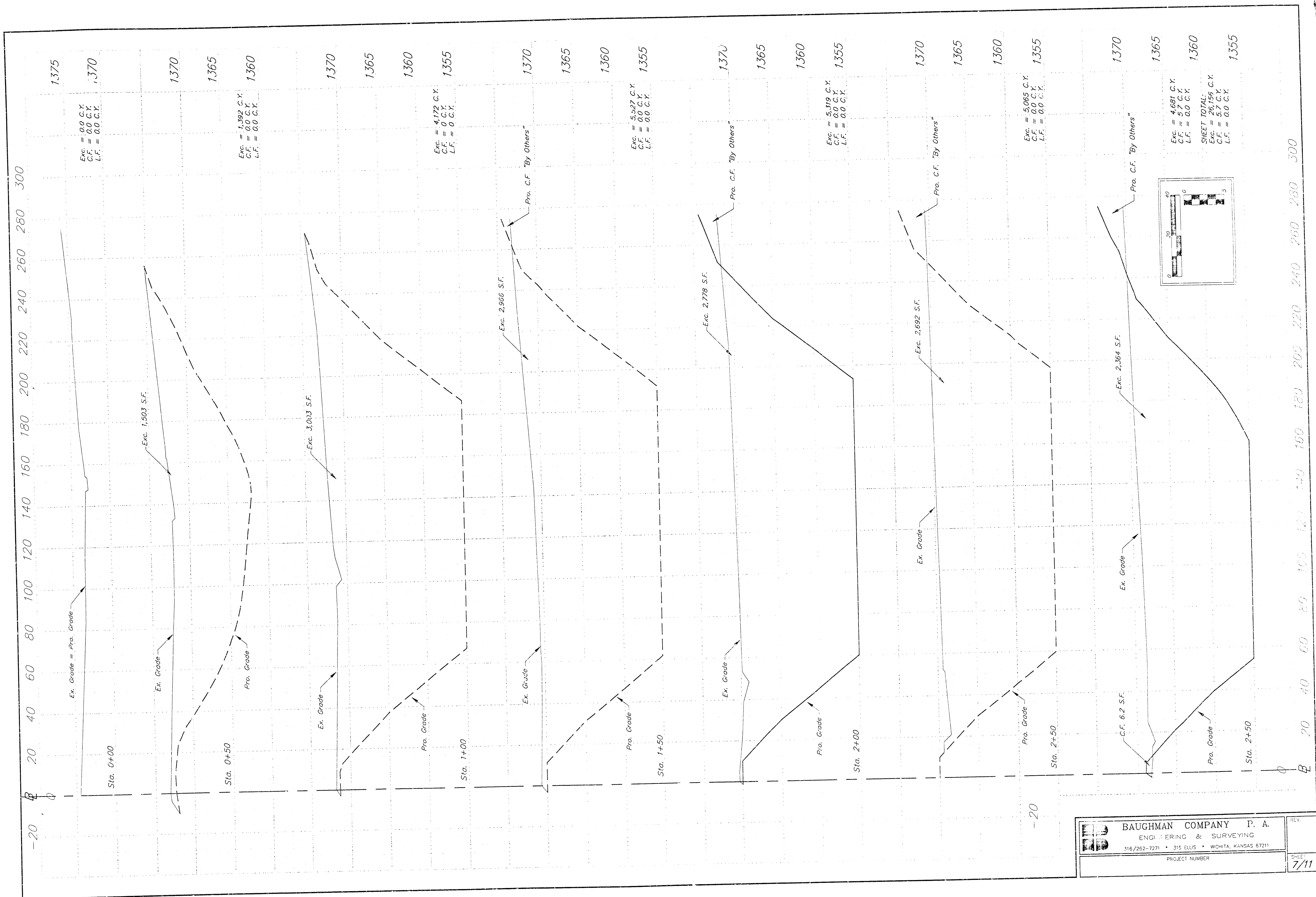
Typical Pond Cross Section



Typical Rip Rap Weir Detail



PRIVATE STORM WATER SERVICE					
CHURCH OF THE MAGDALEN ADDITION					
CITY OF WICHITA, SEDGWICK COUNTY, KANSAS					
BAUGHMAN COMPANY P.A.					
ENGINEERING, SURVEYING, & PLANNING					
214-242-7771 • 315 E. 15th • WICHITA, KANSAS 67202					
PROJECT NUMBER					SHEET
					6
DESIGN	DRAWN	APPROVED	DATE	SCALE	NO. OF
SCL	SCL	NSW	7/27/17	AS SH.	11



Exc. = 0.0 C.Y.
C.F. = 0.0 C.Y.
L.F. = 0.0 C.Y.

Exc. = 1,392 C.Y.
C.F. = 0.0 C.Y.
L.F. = 0.0 C.Y.

Exc. = 4,172 C.Y.
C.F. = 0.0 C.Y.
L.F. = 0.0 C.Y.

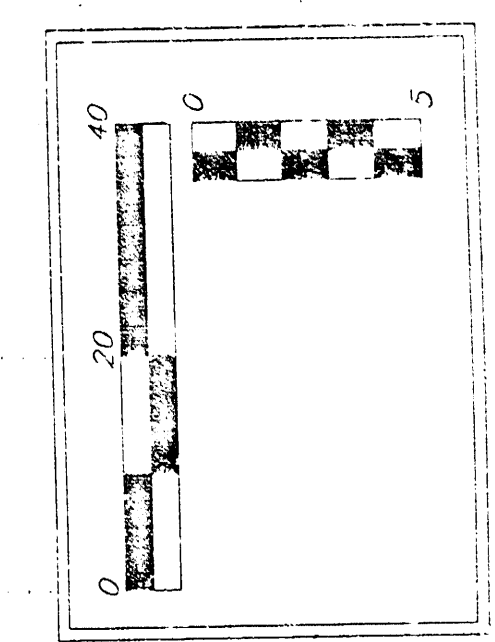
Exc. = 5,527 C.Y.
C.F. = 0.0 C.Y.
L.F. = 0.0 C.Y.

Exc. = 5,319 C.Y.
C.F. = 0.0 C.Y.
L.F. = 0.0 C.Y.

Exc. = 5,065 C.Y.
C.F. = 0.0 C.Y.
L.F. = 0.0 C.Y.

Exc. = 4,681 C.Y.
C.F. = 0.0 C.Y.
L.F. = 0.0 C.Y.

SHEET TOTAL:
Exc. = 26,156 C.Y.
C.F. = 5.7 C.Y.
L.F. = 0.0 C.Y.



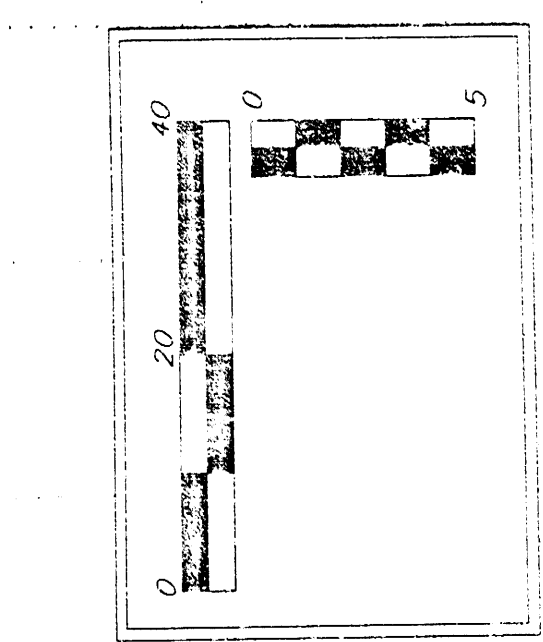
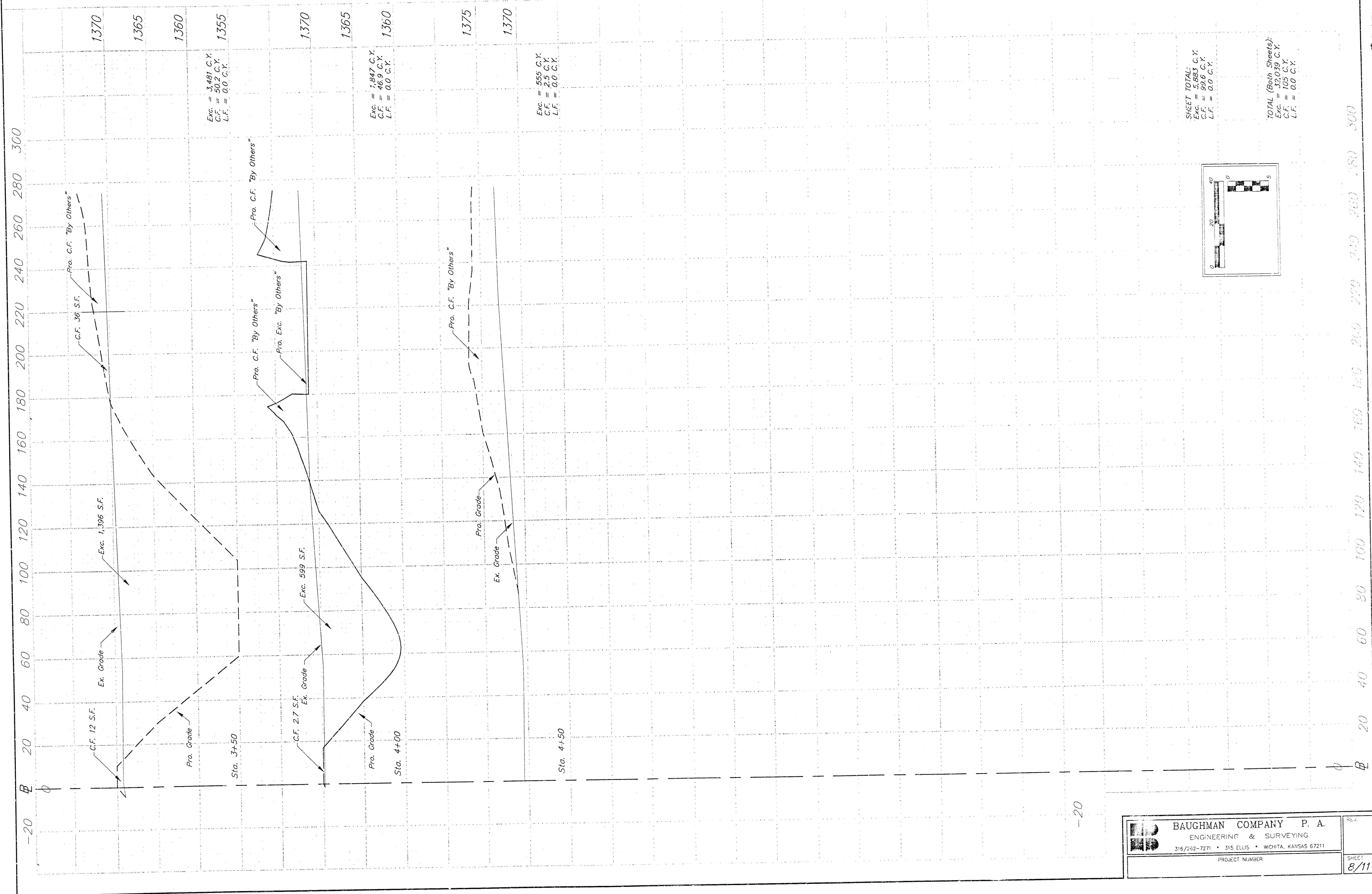


BAUGHMAN COMPANY P. A.
ENGINEERING & SURVEYING
316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER

REV.
7/11

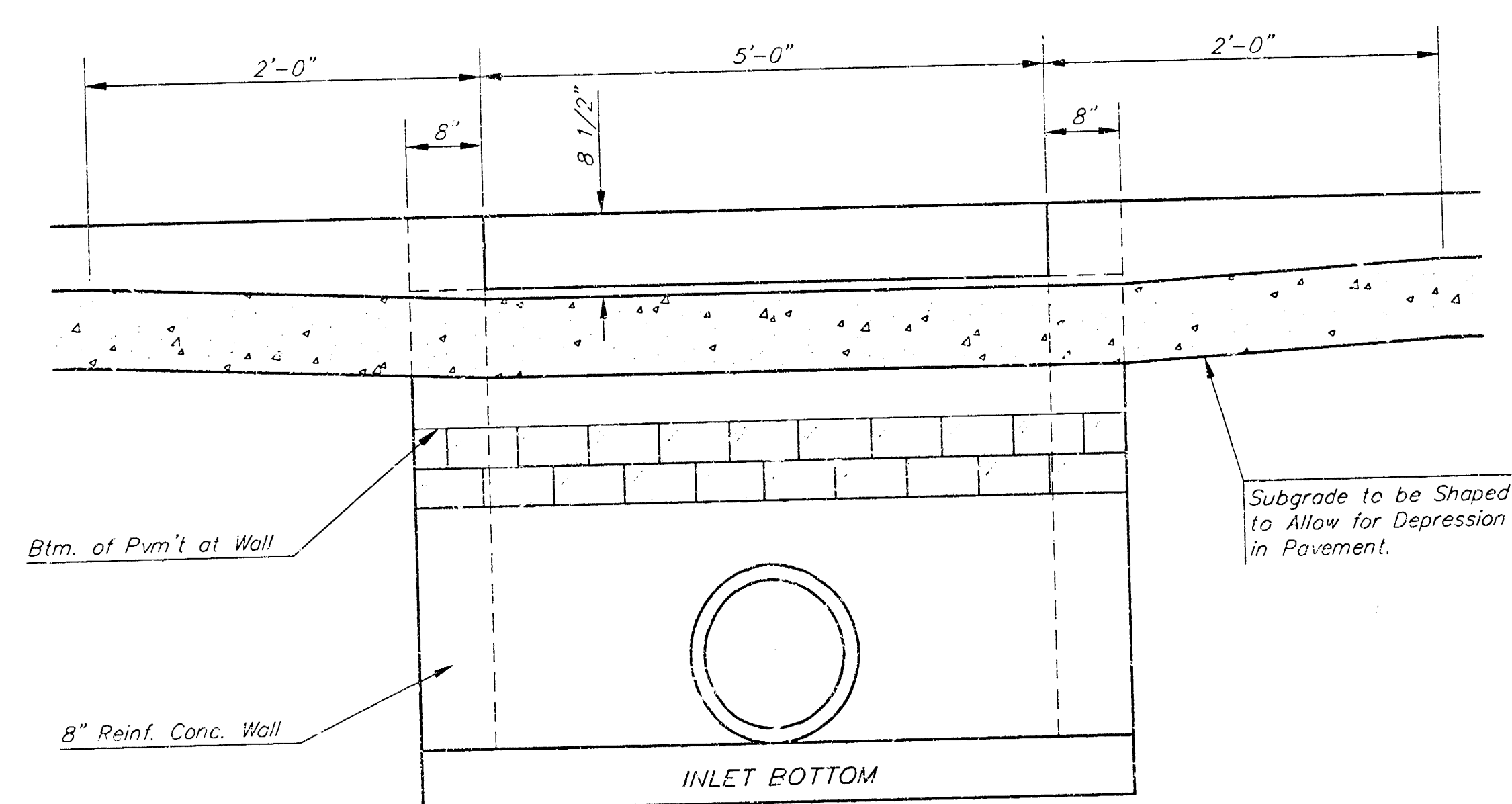
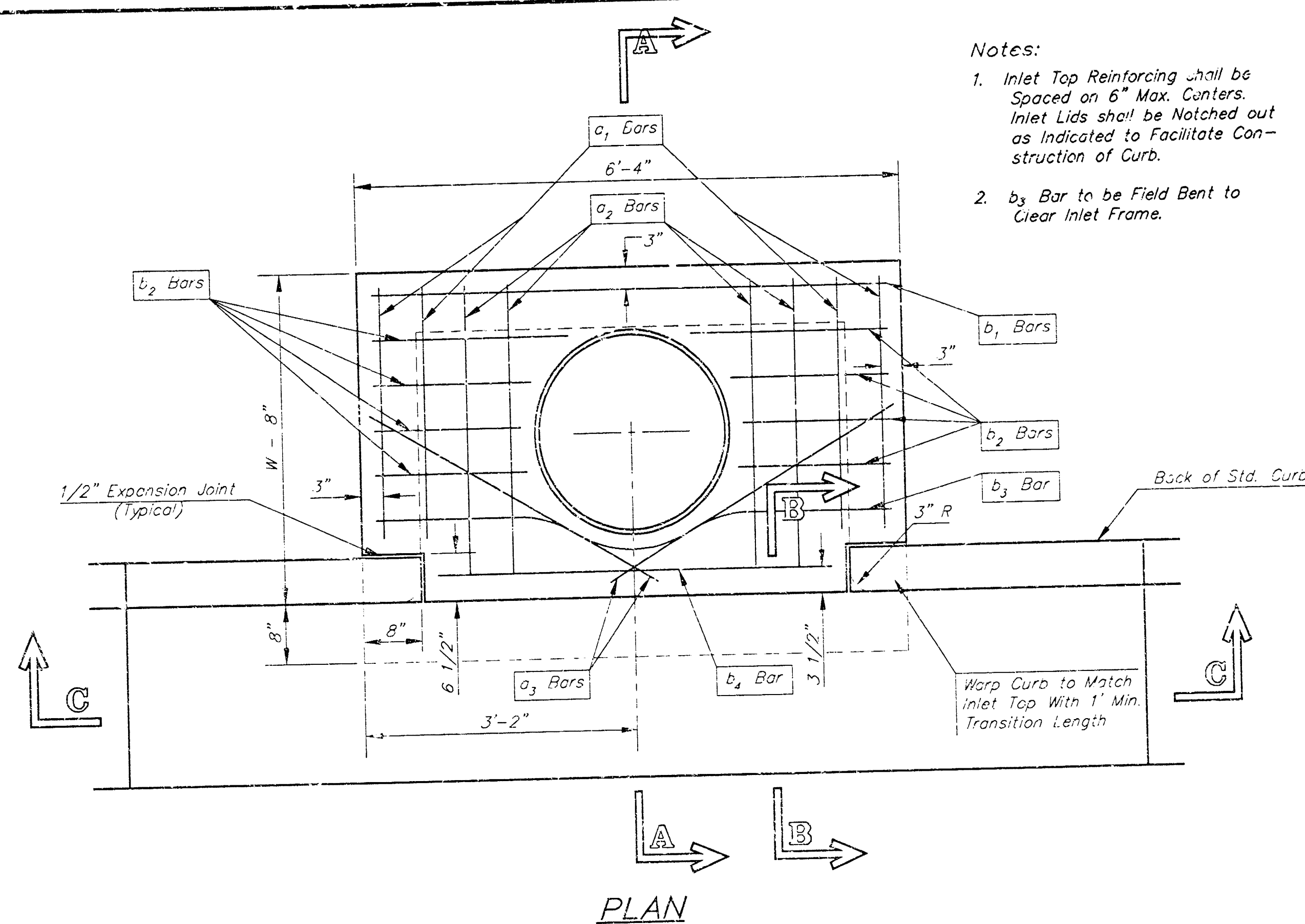
-20



SHEET TOTAL:
Exc. = 5,883 C.Y.
C.F. = 59.4 C.Y.
L.F. = 0.0 C.Y.

TOTAL (Both Sheets):
Exc. = 32,039 C.Y.
C.F. = 105 C.Y.
L.F. = 0.0 C.Y.

	BAUGHMAN COMPANY P. A. ENGINEERING & SURVEYING 316/202-7271 • 315 ELLIS • WICHITA, KANSAS 67211		REV.
	PROJECT NUMBER		SHEET
			8/11

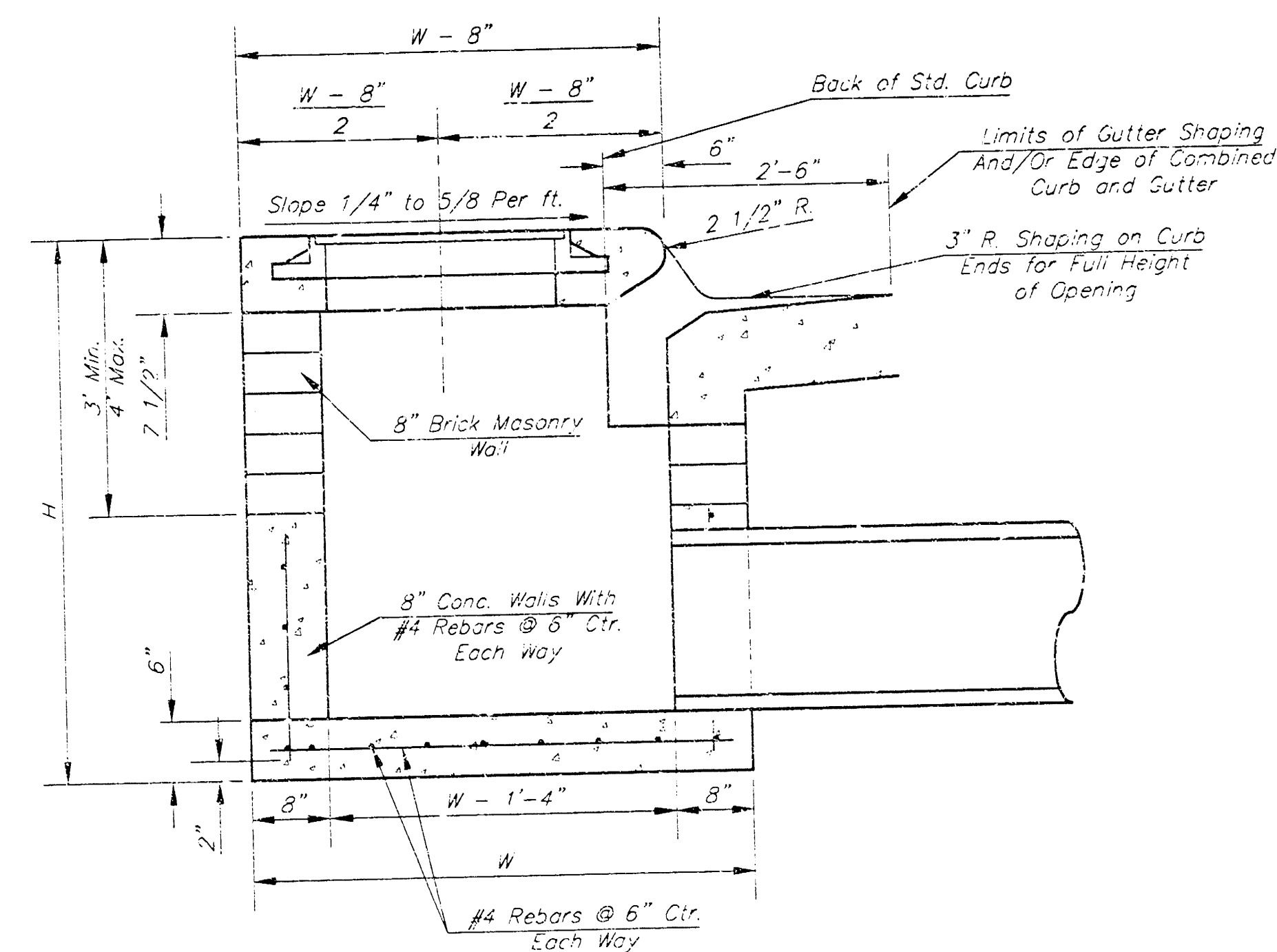


SECTION C-C

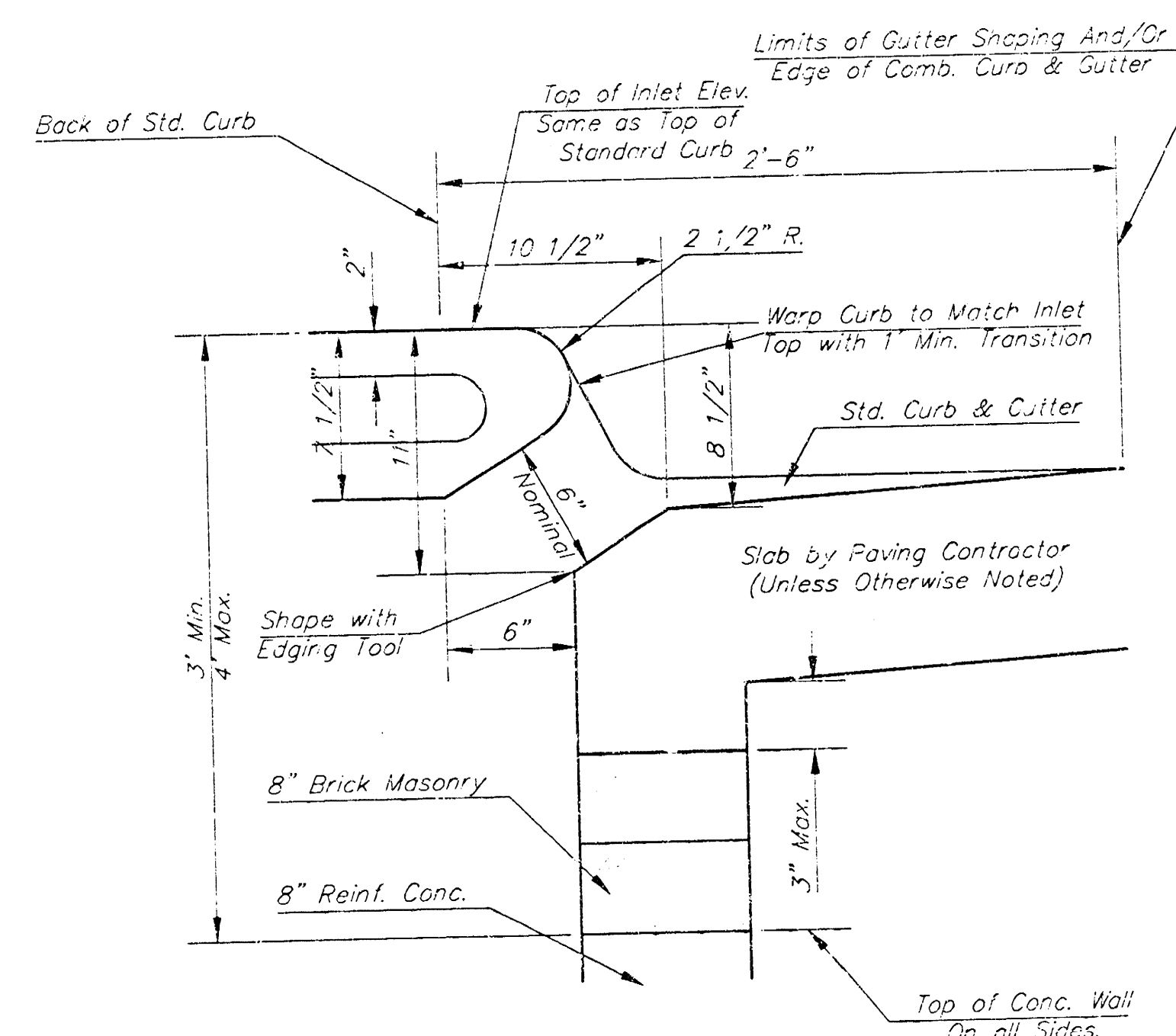
STEEL SCHEDULE										
BAR	a_1	a_2	a_3	b_1	b_2	b_3	b_4	b_5	b_6	WT. Lbs.
NUMBER	4	4	2	1	3	5	7	9	5	1
SIZE	#4	#4	#4	#4	#4	#4	#4	#4	#4	#6
LENGTH	W=4'-4"	5'-7"	6'-7"	4'-0"	6'-1"	-	-	-	1'-9"	6'-2"
	W=5'-4"	7'-7"	8'-7"	5'-0"	6'-1"	-	-	-	1'-9"	6'-2"
	W=5'-4"	9'-7"	10'-7"	6'-0"	6'-1"	-	-	-	1'-9"	6'-2"
	W=7'-4"	11'-7"	12'-7"	7'-0"	6'-1"	-	-	-	1'-9"	6'-2"
	W=8'-4"	13'-7"	14'-7"	8'-0"	6'-1"	1'-9"	6'-2"	4'-8"	141±	

Note: a_3 Bars to be Placed Approx. 2" Below Top of Inlet Cover.

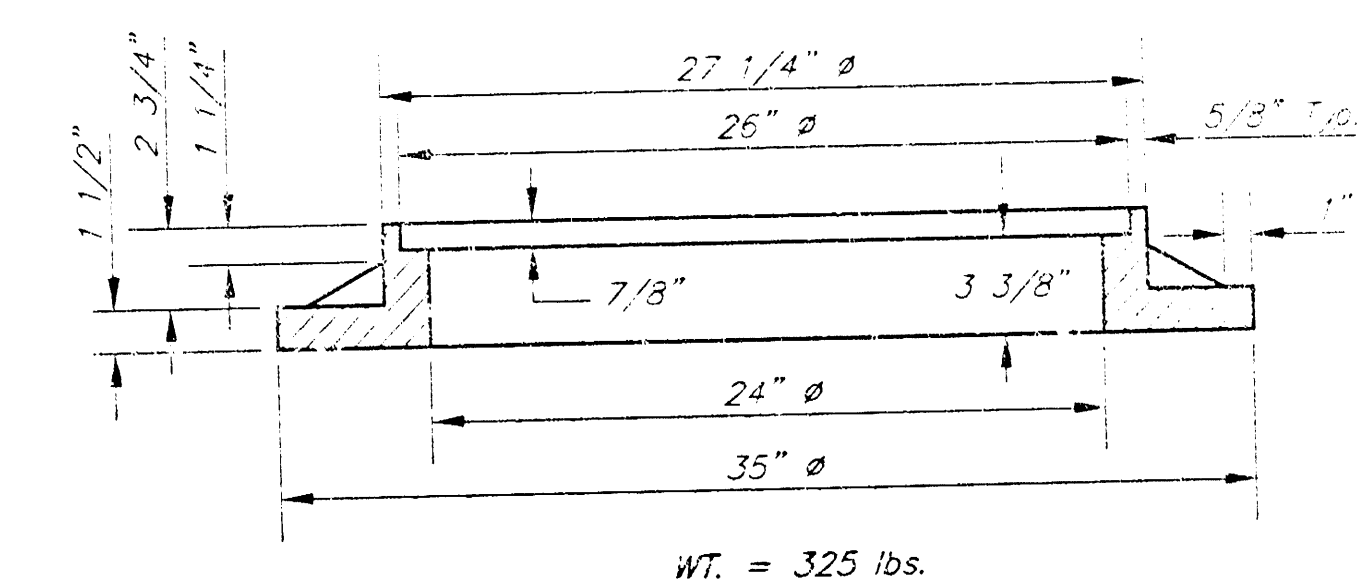
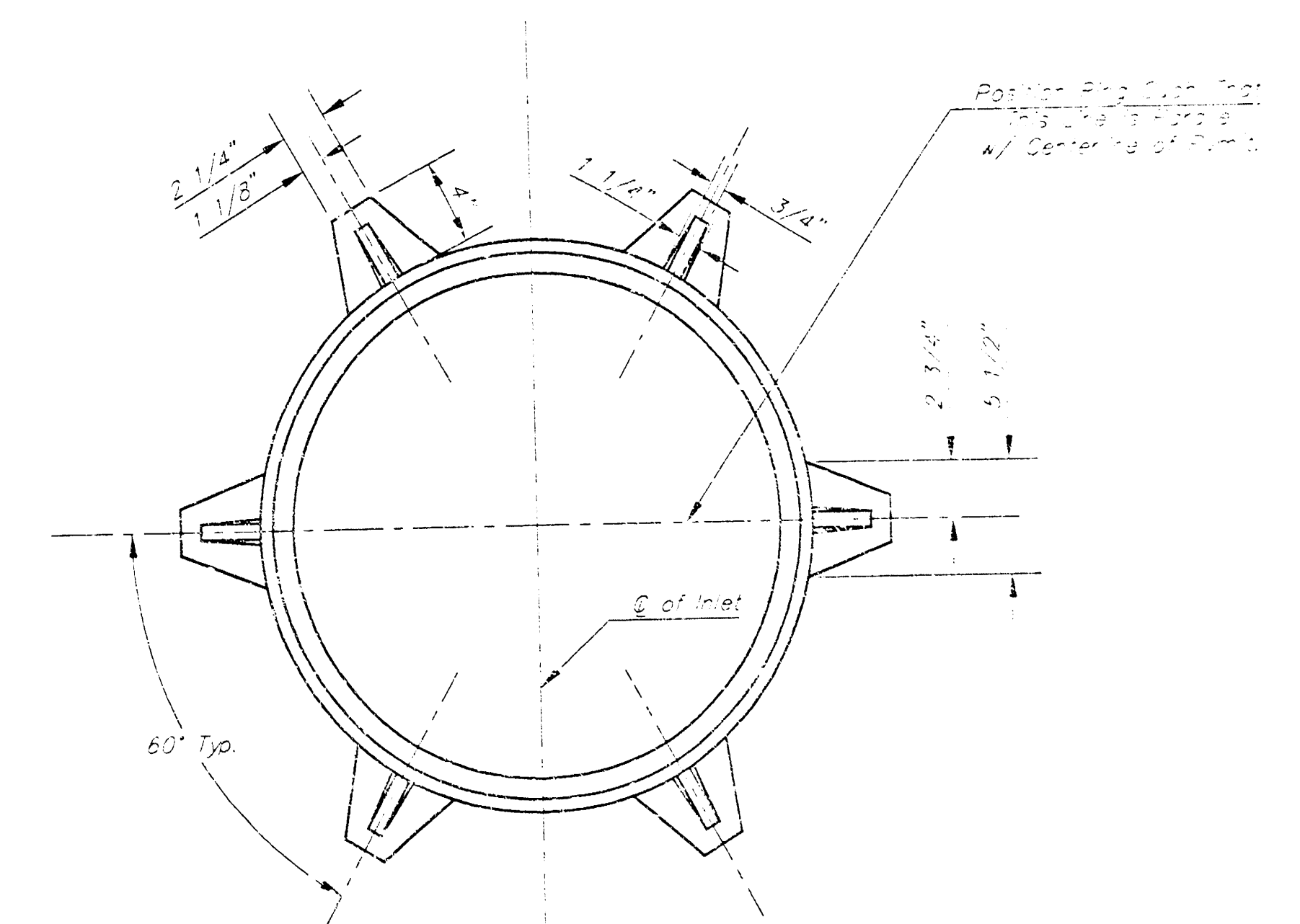
STANDARD CURB INLET PRECAST TOPS			
W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4'-4"	3'-8" 6'-4" 7 1/2"	21" & SMALLER	0.30±
5'-4"	4'-8" 6'-4" 7 1/2"	24" & 30"	0.51±
6'-4"	5'-8" 6'-4" 7 1/2"	36" & 42"	0.64±
7'-4"	6'-8" 6'-4" 7 1/2"	48" & 54"	0.77±
8'-4"	7'-8" 6'-4" 7 1/2"	60" & 66"	0.90±



SECTION A-A

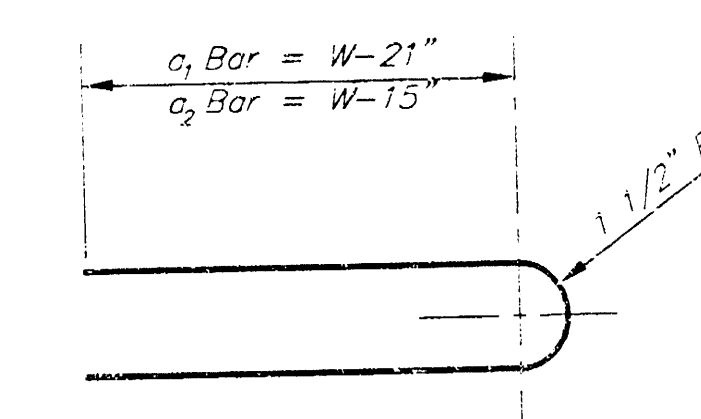


SECTION B-B



MANHOLE RING AND COVER

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



BENDING DIAGRAM

GENERAL NOTES

- 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. Concrete used for inlet construction shall be concrete pavement mix.
- Contractor shall have the option of constructing 8" brick masonry walls between the concrete inlet base and top on this inlet when W=6'-4" and H=7'-0" or less.
- 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.
- The ends of all pipes installed in inlets shall be cut off flush with the inside face of the inlet wall.

Revised - Dec. 21, 1954

TYPE 1 CURB INLET

BAUGHMAN COMPANY P.A.

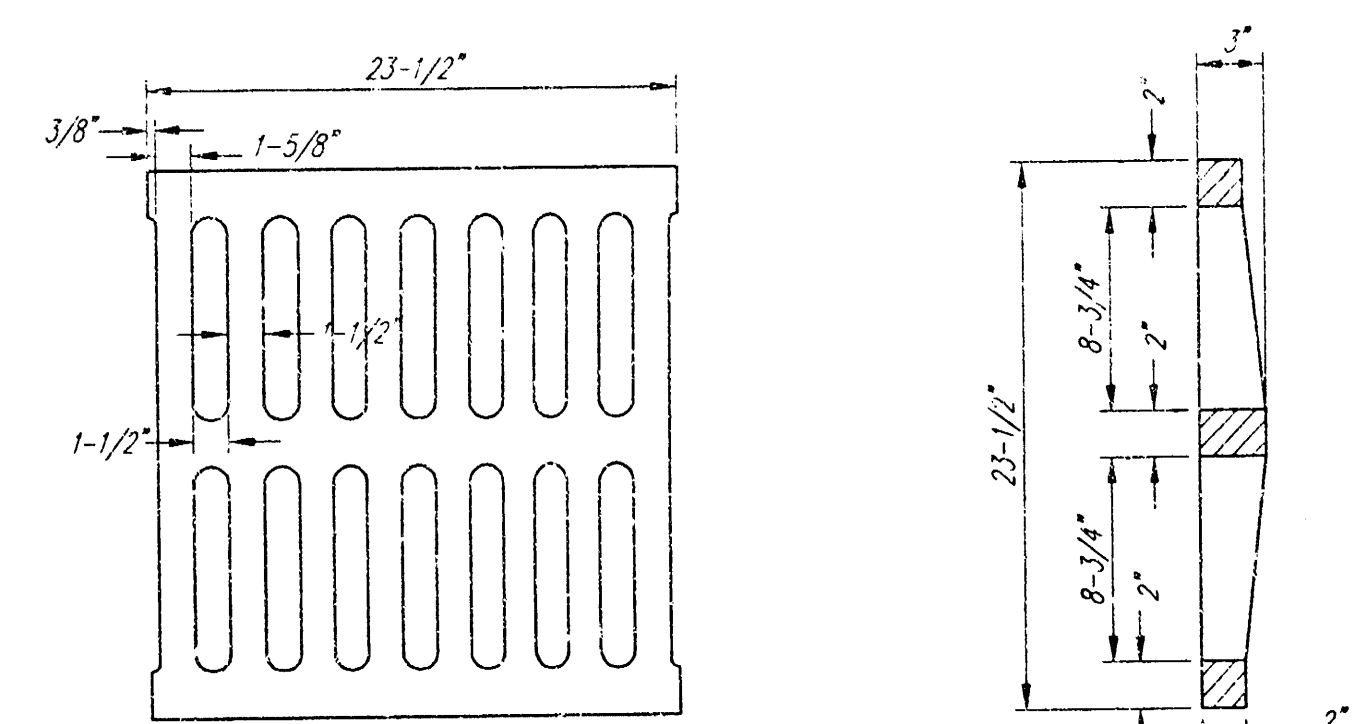
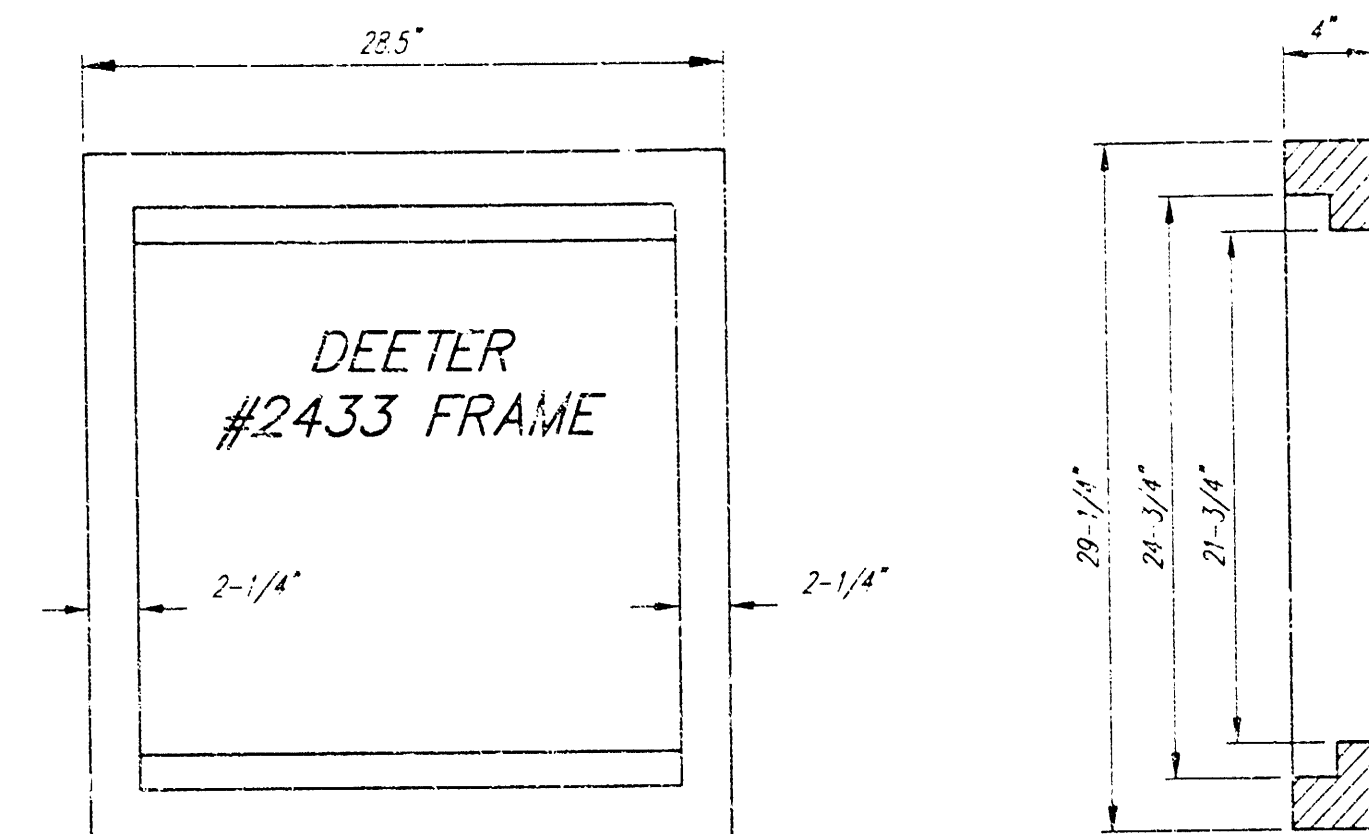
ENGINEERING, SURVEYING, & PLANNING

PROJECT NUMBER

DESIGN C.O.W. DRAWN START APPROVED DATE SCALE 1"=10'

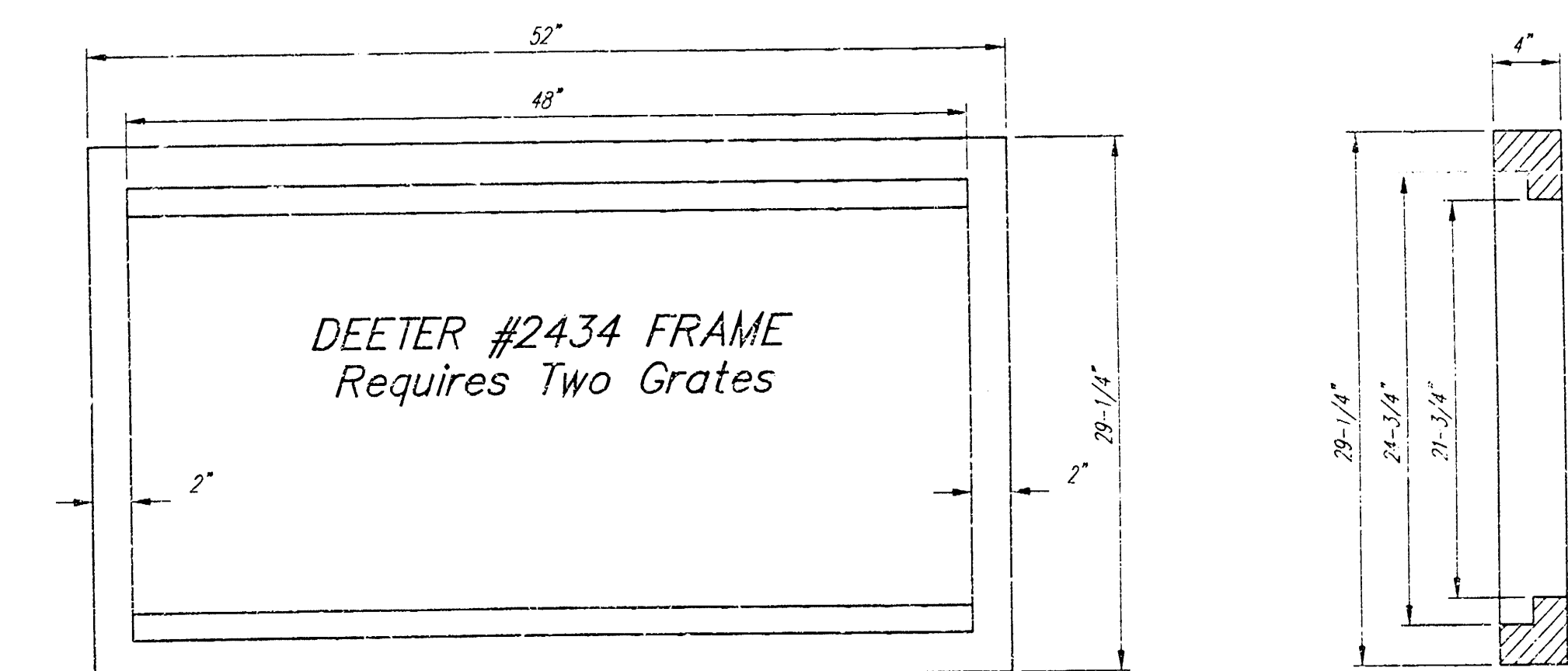
9

11



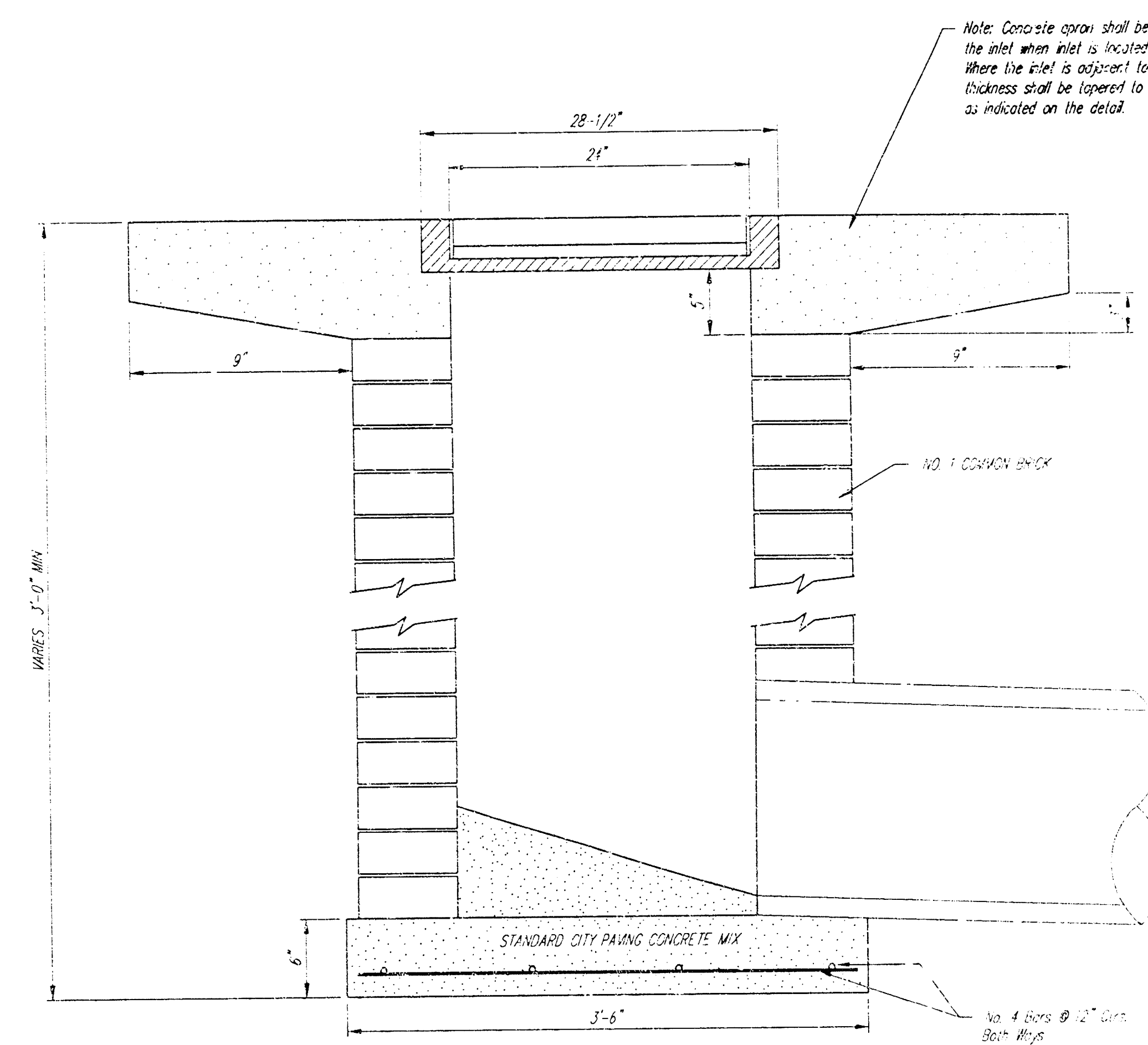
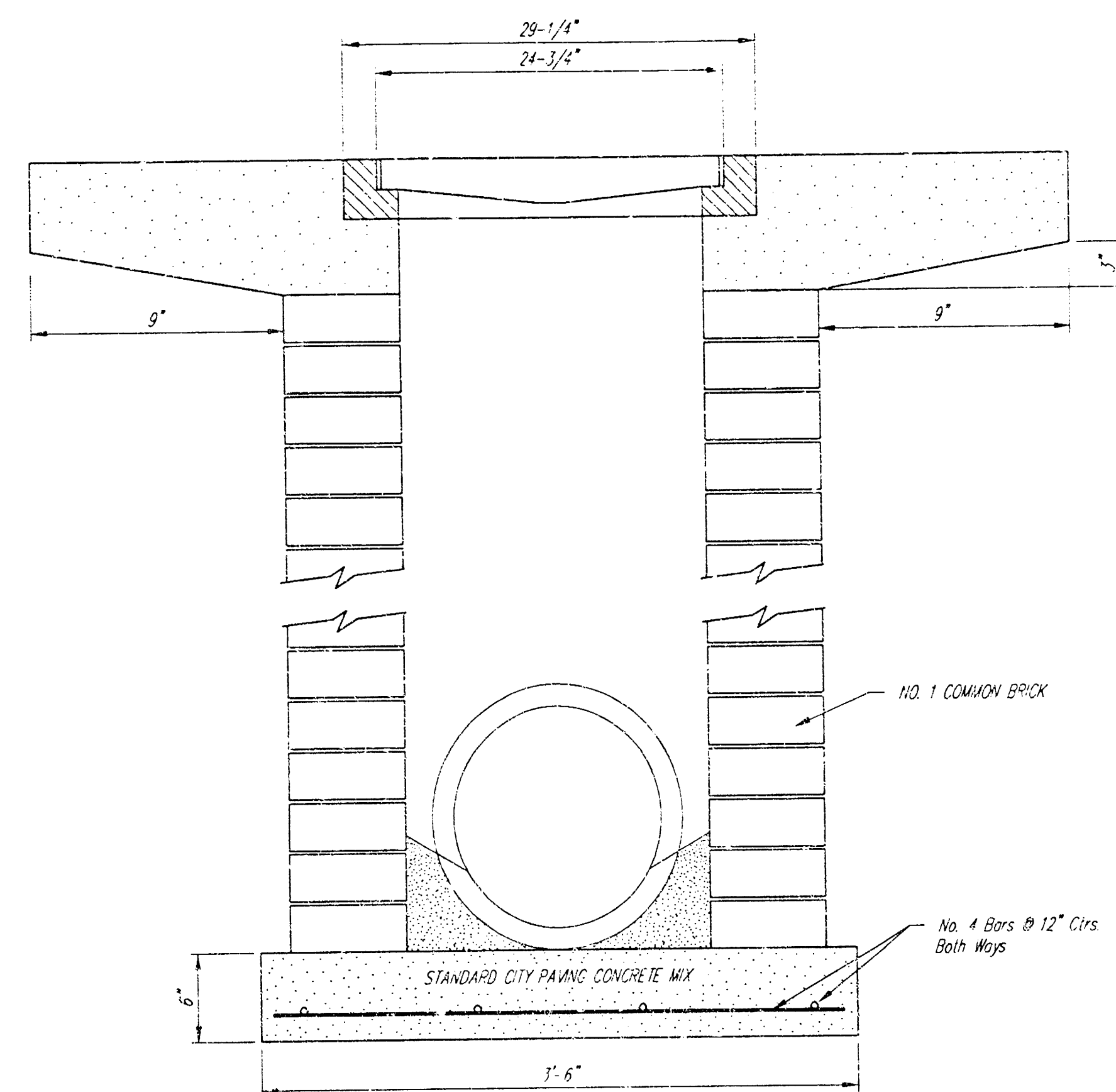
DEETER #2433 GRATE

24" x 24" Frame and Grate Detail

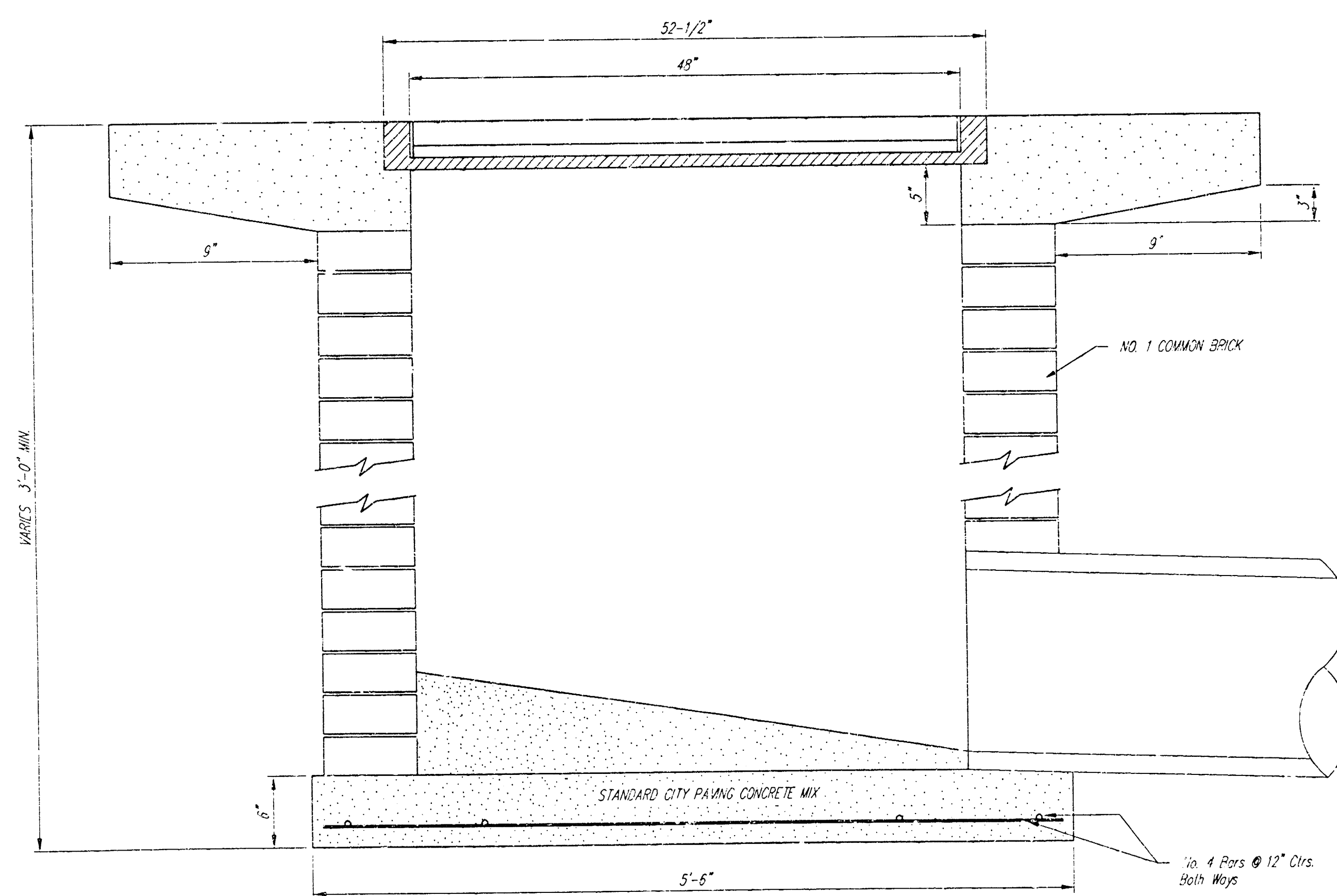


Double 24" x 24" Frame Detail

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



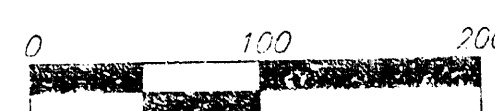
Note: Concrete apron shall be constructed around the inlet when inlet is located in an ungraded area. Where the inlet is adjacent to pavement, the pavement thickness shall be tapered to the inlet in 18 inches as indicated on the detail.



CITY OF MICHIGAN				
STANDARD DROP INLET				
Baughman Company P.A.				
ENGINEERING, SURVEYING, & PLANNING				
PROJECT NUMBER				
DESIGN	DRAWN	APPROVED	DATE	SCALE
STAFF	STAFF			
				10
				11

CHURCH OF THE MAGDALEN ADDITION WICHITA, SEDGWICK COUNTY, KANSAS

NOTE:
A DRAINAGE PLAN HAS BEEN DEVELOPED FOR THIS SUBDIVISION AND IS ON FILE WITH THE CITY OF WICHITA, KANSAS. DRAINAGE INTENT SHALL REMAIN AS DEPICTED OR AS MODIFIED WITH THE APPROVAL OF THE CITY ENGINEER OF THE CITY OF WICHITA, KANSAS. NO OBSTRUCTIONS WHICH WOULD IMPED THE FLOW OF THIS DRAINAGE PLAN SHALL BE ALLOWED.



MINIMUM BUILDING PAD ELEVATIONS FOR LOWEST OPENING TO THE STRUCTURES			
LOT	BLOCK	ELEVATION	CITY DATUM 1950
1	A	185.7	1373.1

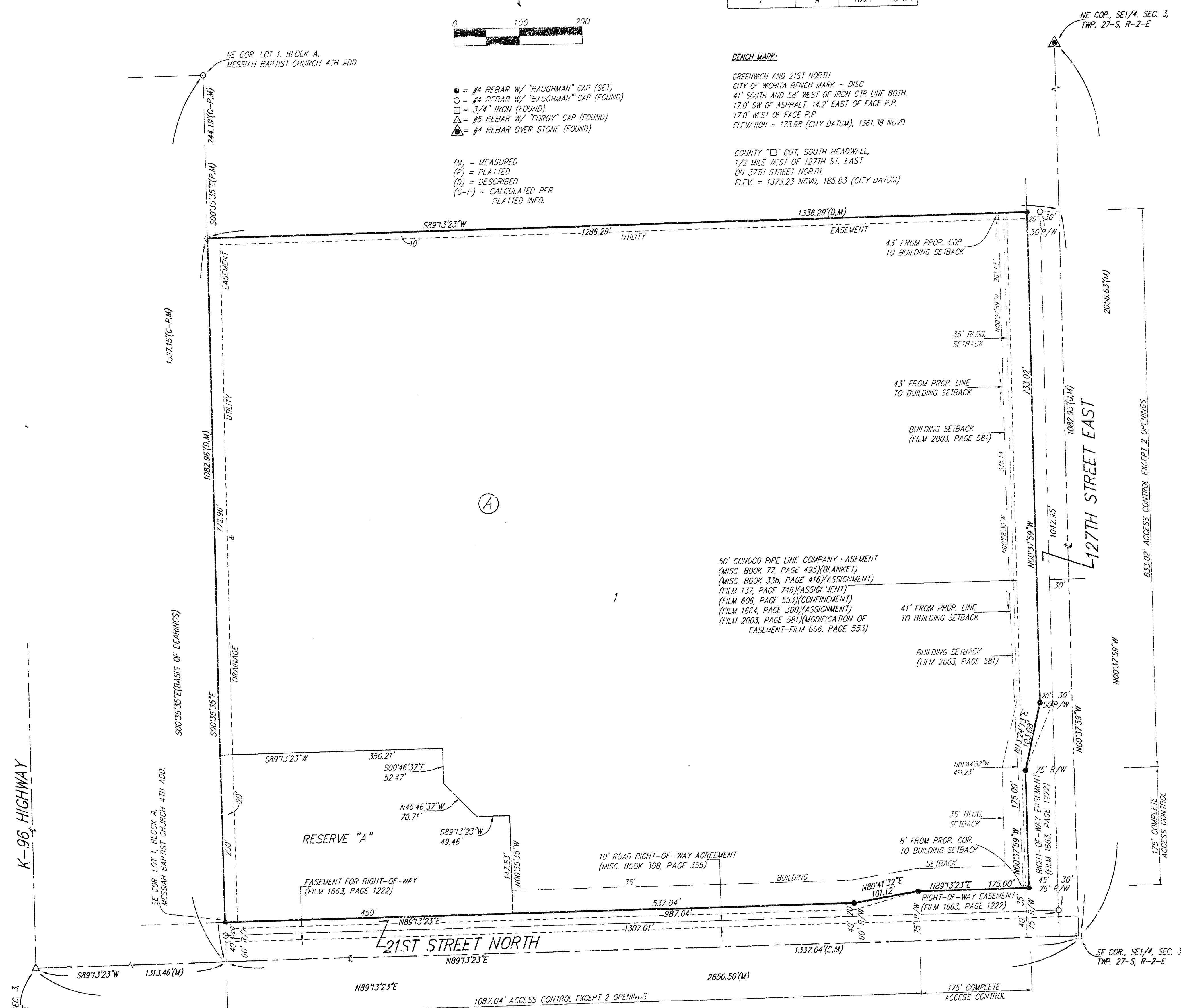
BENCH MARK

GREENWICH AND 21ST NORTH
CITY OF WICHITA BENCH MARK - DISC
41" SOUTH AND 58" WEST OF IRON CTR LINE BOTH
17.0" SW OF ASPHALT 14.2" EAST OF FACE P.P.
17.0" WEST OF FACE P.P.
ELEVATION = 173.98 (CITY DATUM), 1361.18 NGVD

COUNTY "C" CUT, SOUTH HEADWALL
1/2 MILE WEST OF 127TH ST. EAST
ON 17TH STREET NORTH
ELEV. = 1373.21 NGVD, 185.83 (CITY DATUM)

- = #4 REBAR W/ "BAUGHMAN" CAP (SET)
- = #4 REBAR W/ "BAUGHMAN" CAP (FOUND)
- = 3/4" IRON (FOUND)
- △ = #5 REBAR W/ "TODDY" CAP (FOUND)
- ▲ = #4 REBAR OVER STONE (FOUND)

- (M) = MEASURED
- (P) = PLATTED
- (D) = DESCRIBED
- (C-T) = CALCULATED PER PLATTED INFO



NOTE:
THE FOLLOWING INSTRUMENT IS IN THE PROCESS OF BEING RELEASED THIS 1ST DAY OF SEPTEMBER, 2000.
TELEPHONE AND TELEGRAPH EASEMENT TO SHEL PERPETUUM CORPORATION (MISC. BOOK 77, PAGE 411) AND LAST ASSIGNED TO CONDO PIPE LINE COMPANY (FILM 1864, PAGE 553)

State of Kansas) SS We, Baughman Company, P.A., Surveyors in Sedgwick County) do hereby certify that we have surveyed and platted "CHURCH OF THE MAGDALEN ADDITION", Wichita, Sedgwick County, Kansas, and that the accompanying plat is a true and correct exhibit of the property surveyed, described as beginning at the SE corner of the SE 1/4 of Sec. 3, Twp. 27-S, R-2-E, of the 5th P.M., Sedgwick County, Kansas; thence north along the east line of said SE 1/4, 1082.95 feet; thence west parallel with the south line of said SE 1/4, 1336.29 feet to a point on the east line of Lot 1, Block A, Messiah Baptist Church 4th Addition, Sedgwick County, Kansas; thence south along the east line of said Lot 1, and as extended south, 1082.96 feet to a point on the south line of said SE 1/4; thence east along the south line of said SE 1/4, 1337.04 feet to the point of beginning, subject to road rights-of-way of record.

Existing easements and dedications being vacated by virtue of K.S.A. 12-512(b).
Baughman Company, P.A.

Michael G. Conrey, Surveyor

Know all men by these presents that we, the undersigned, have caused the land in the surveyors certificate to be platted into a Lot, a Block, Streets, and a Reserve, to be known as "CHURCH OF THE MAGDALEN ADDITION", Wichita, Sedgwick County, Kansas. The utility easement is hereby granted as indicated for the construction and maintenance of all public utilities. The drainage and utility easement is hereby granted as indicated for drainage purposes and for the construction and maintenance of all public utilities. The streets are hereby dedicated to and for the use of the public. Reserve "A" is hereby reserved for lakes, landscaping, berms, open space, drainage purposes, and utilities as confined to easements. Reserve "A" shall be owned and maintained by the owner of Lot 1, Block A. Access controls shall be as depicted on the face of the plat and are hereby granted to the City of Wichita, Kansas. The permitted opening locations shall be as determined by the City Engineer for the City of Wichita, Kansas. The Minimum Building Pad Elevation for the lowest opening to the structures on Lot 1, Block A, shall be 185.6 City Datum, (1373.0 NGVD).

The Catholic Diocese of Wichita

Eugene J. Gerber, President

State of Kansas) SS The foregoing instrument acknowledged before me, this day of 2000, by Eugene J. Gerber, President of The Catholic Diocese of Wichita, on behalf of the Diocese.

Notary Public

My App't. Exp.

This plat of "CHURCH OF THE MAGDALEN ADDITION", Wichita, Sedgwick County, Kansas has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas.

Dated this day of 2000.
Wichita-Sedgwick County Metropolitan Area Planning Commission

Francis S. Garofalo, Chairman

Marvin S. Kroul, Secretary

This plat approved and all dedications shown hereon accepted by the City Council of the City of Wichita, Kansas, this day of 2000.

Bob Knight, Mayor

Pat Burnett, City Clerk

Reviewed in accordance with K.S.A. 58-2205 on this day of 2000.

Tricia L. Robello, L.S. #1246
Deputy County Surveyor
Sedgwick County, Kansas

Entered on transfer record this day of 2000.

James Alford, County Clerk

Eugene J. Gerber, President

State of Kansas) SS This is to certify that this plat has been Sedgwick County) filed for record in the office of the Register of Deeds, this day of 2000 at o'clock M; and is duly recorded.

Bill Meek, Register of Deeds

Linda Klizire, Deputy