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:
" □ " 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

LEGAL DESCRIPTION:

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

INDEX:

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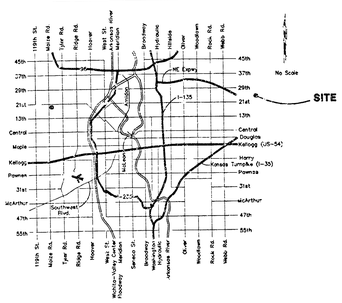
APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

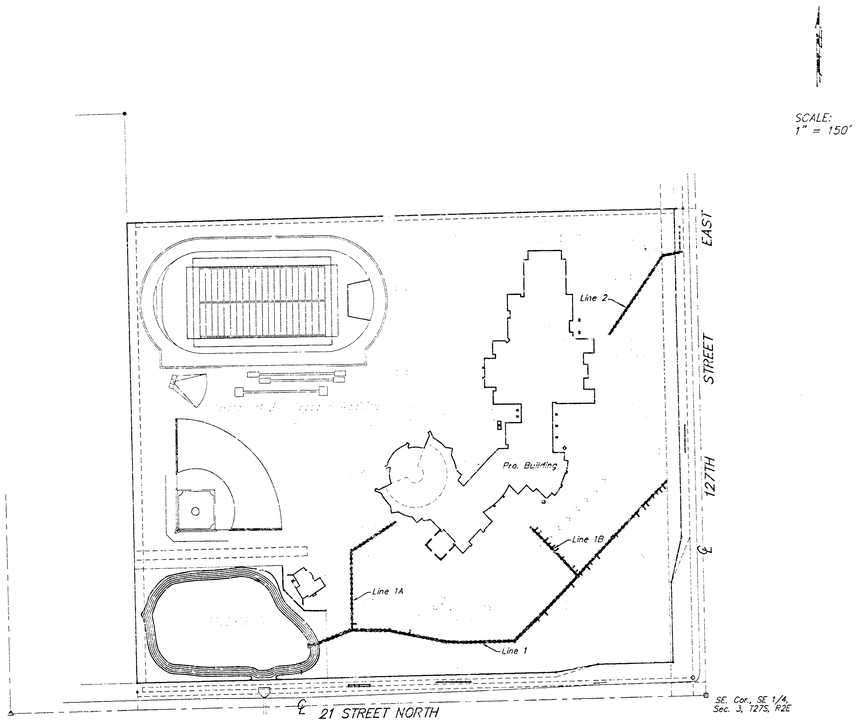
Storm Sewers VRH 9/14/00

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 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





GENERAL NOTES:

1. 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	383-8600
Kansas Gas & Electric Company	383-8650
Peoples Gas Company	942-7600
Southwestern Bell Telephone Company	1-571-2611
City of Wichita Water Department	268-4908
City of Wichita Sewer Department	268-4071
Conoco Pipe Line Company	681-2081

2. Utility service lines, poles, valve boxes, meters, et 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.

3. 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.

4. 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.

5. Should construction stop for longer than 15 days, the site shall be seeded as specified.

6. 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 Manufactures Specifications.
   For Additional information Call North American Green, Inc. At 800-772-2040.

7. All necessary permits must be obtained from the governing authority prior to construction.

BOOKED 5-31-02 MCG C-214

BRENT WOOTEN LICENSED 8479 KANSAS PROFESSIONAL ENGINEER

As Built 11/01 KK

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 215 ELLIS • WICHITA, KANSAS 67211

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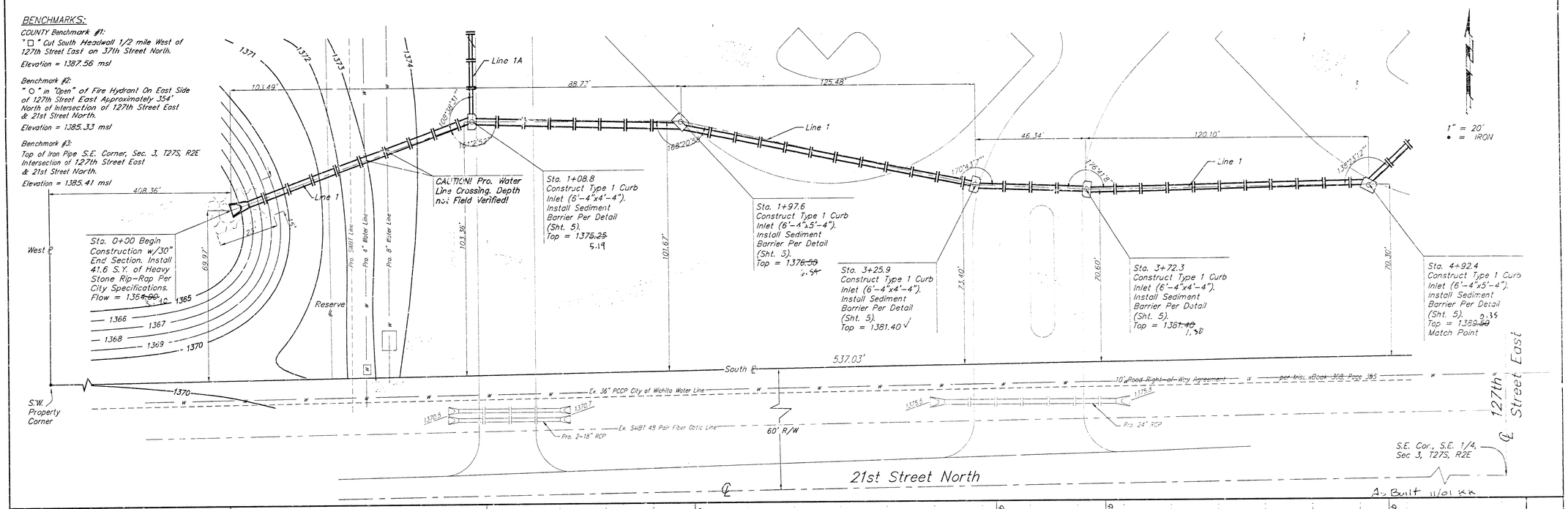
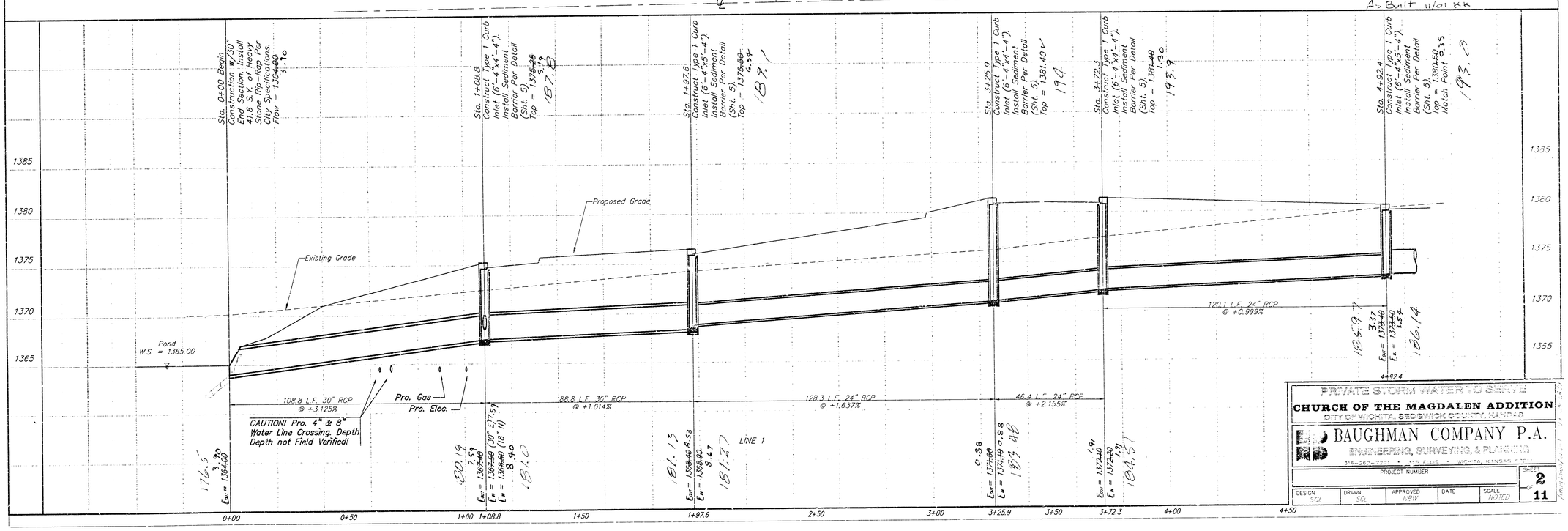
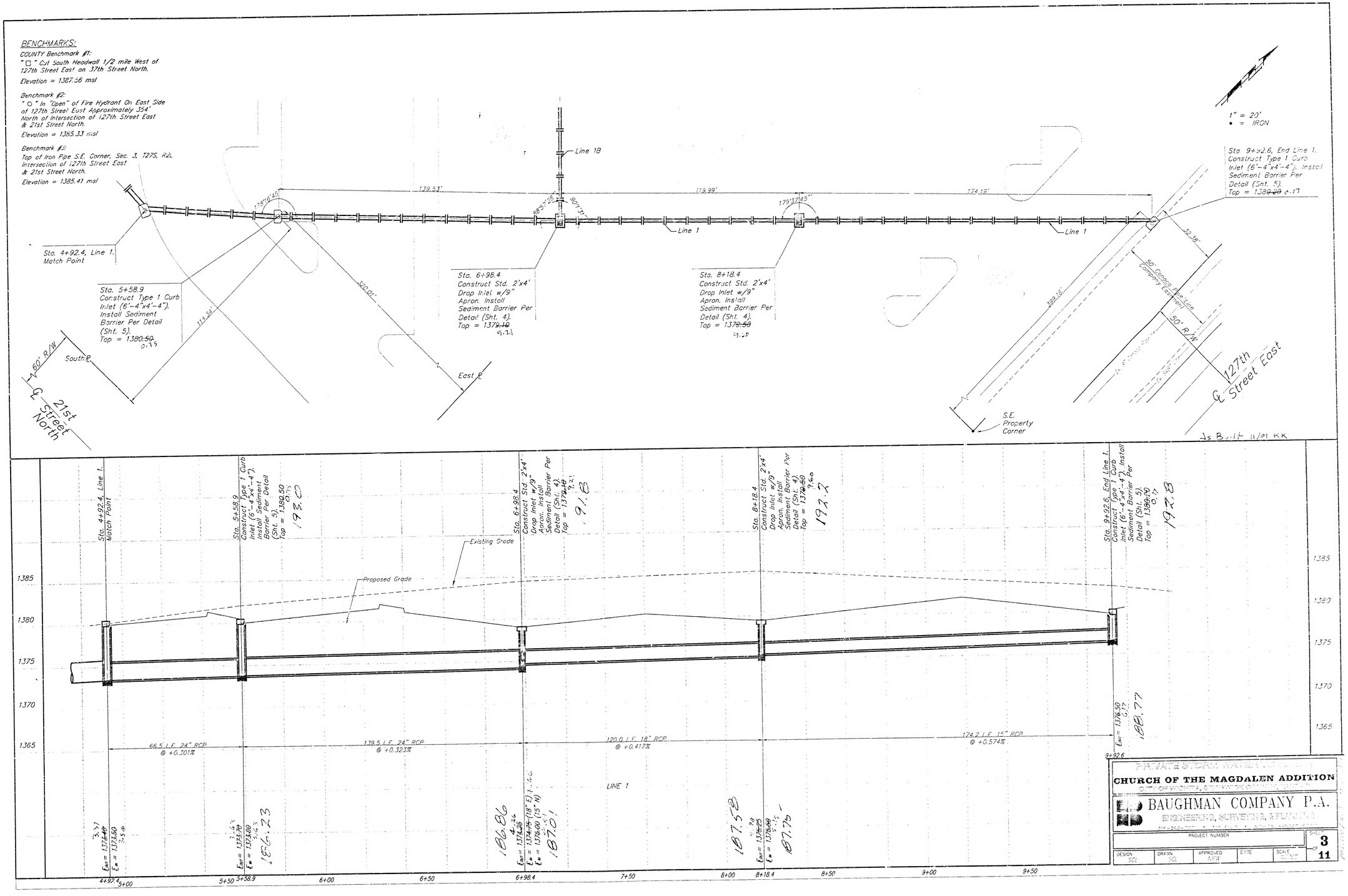




PRIVATE STORM WATER TO SERVE
CHURCH OF THE MAGDALEN ADDITION
CITY OF WICHITA, SEDGWICK COUNTY, KANSAS

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 E. LINS • WICHITA, KANSAS 67211

PROJECT NUMBER					SHEET
DESIGN SCL	DRAWN SCL	APPROVED NAW	DATE	SCALE NOTED	2 of 11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Elevation = 1385.41 msl
1" = 20'
• = IRON
Line 1B
Line 1
Line 1
139.53'
119.99'
174.19'
Sta. 4+92.4, Line 1. Match Point
Sta. 5+58.9 Construct Type 1 Curb Inlet (6'-4"x4'-4"). Install Sediment Barrier Per Detail (Sht. 5). Top = 1380.50
Sta. 6+98.4 Construct Std. 2'x4' Drop Inlet w/9" Apron. Install Sediment Barrier Per Detail (Sht. 4). Top = 1379.10
Sta. 8+18.4 Construct Std. 2'x4' Drop Inlet w/9" Apron. Install Sediment Barrier Per Detail (Sht. 4). Top = 1379.50
Sta. 9+92.6, End Line 1. Construct Type 1 Curb Inlet (6'-4"x4'-4"). Install Sediment Barrier Per Detail (Sht. 5). Top = 1380.20
60' R/W
South ℄
21st Street North
East ℄
127th Street East
50' R/W
S.E. Property Corner
Existing Grade
Proposed Grade
66.5 L.F. 24" RCP @ +0.301%
139.5 L.F. 24" RCP @ +0.323%
120.0 L.F. 18" RCP @ +0.417%
174.2 L.F. 15" RCP @ +0.574%
LINE 1
4+92.4
5+00
5+50
5+58.9
6+00
6+50
6+98.4
7+50
8+00
8+18.4
8+50
9+00
9+50
9+92.6
1385
1380
1375
1370
1365
CHURCH OF THE MAGDALEN ADDITION
BAUGHMAN COMPANY P.A.
PROJECT NUMBER
SHEET 3 OF 11
DESIGN SCL
DRAWN SCL
APPROVED NEW
DATE
SCALE NOTED

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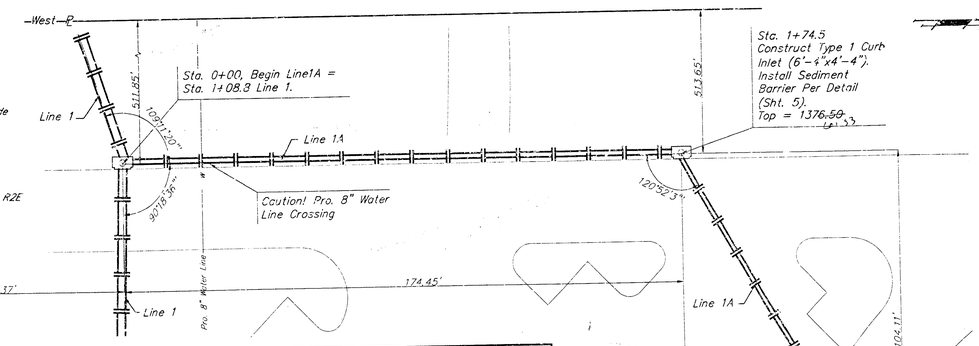
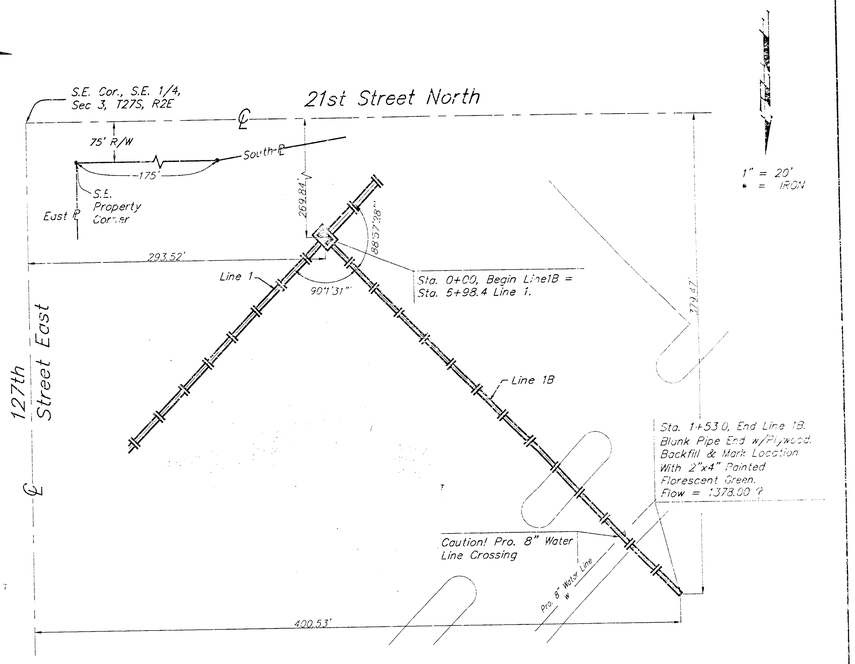




DROP INLET PROTECTION - The 'Verti-Pro' by Alpine

NOTES:

Surface of grate must be clean and free of dirt and debris.

Position Verti-Pro squarely on the inlet grate.

Install toggle bolt assembly (See Figure 2), the hold down plate must contact both the lower frame flange and grate. The toggle bolt 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.

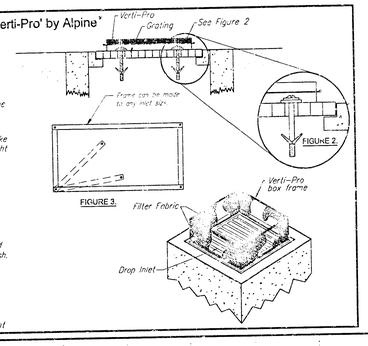
Align holes in each leg with the two (2) holes in upper frame. Insert a plastic retainer (or equal) in each of the holes from the outside in.

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 reuseable and easy to install).

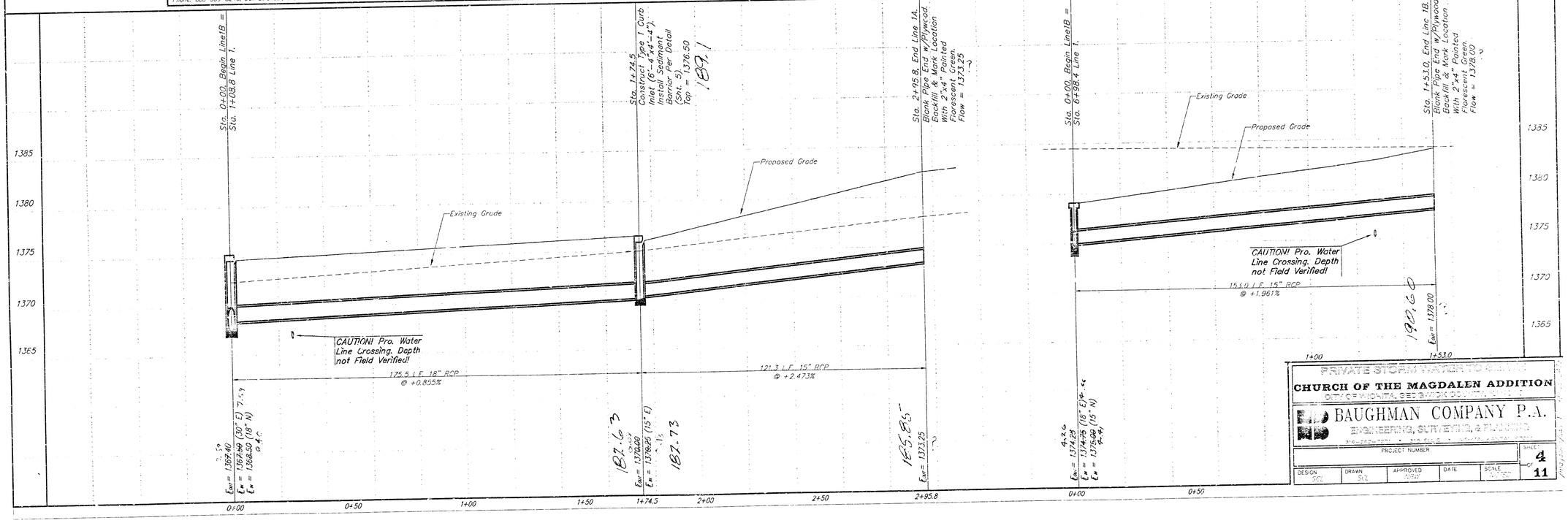
ORDERING:

ALPINE STORMWATER MANAGEMENT COMPANY
4127 Broadway, Suite B
Grove City, Ohio 43123
Phone: 888-539-8240, Don Strawser, Sr., President



Sta. 2+95.5, End Line 1A. Blank Pipe End w/Plywood. Backfill & Mark Location With 2"x4" Painted Florescent Green. Flow = 1373.25 ?

As Built 11-0' R.K.



PRIVATE STORMWATER SYSTEM

CHURCH OF THE MAGDALEN ADDITION

CITY OF MIDDLETOWN, OHIO BUTLER COUNTY

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

PROJECT NUMBER

DESIGN	DRAWN	APPROVED	DATE	SCALE
SCC	SCC			

SHEET 4 OF 11

BENCHMARKS:

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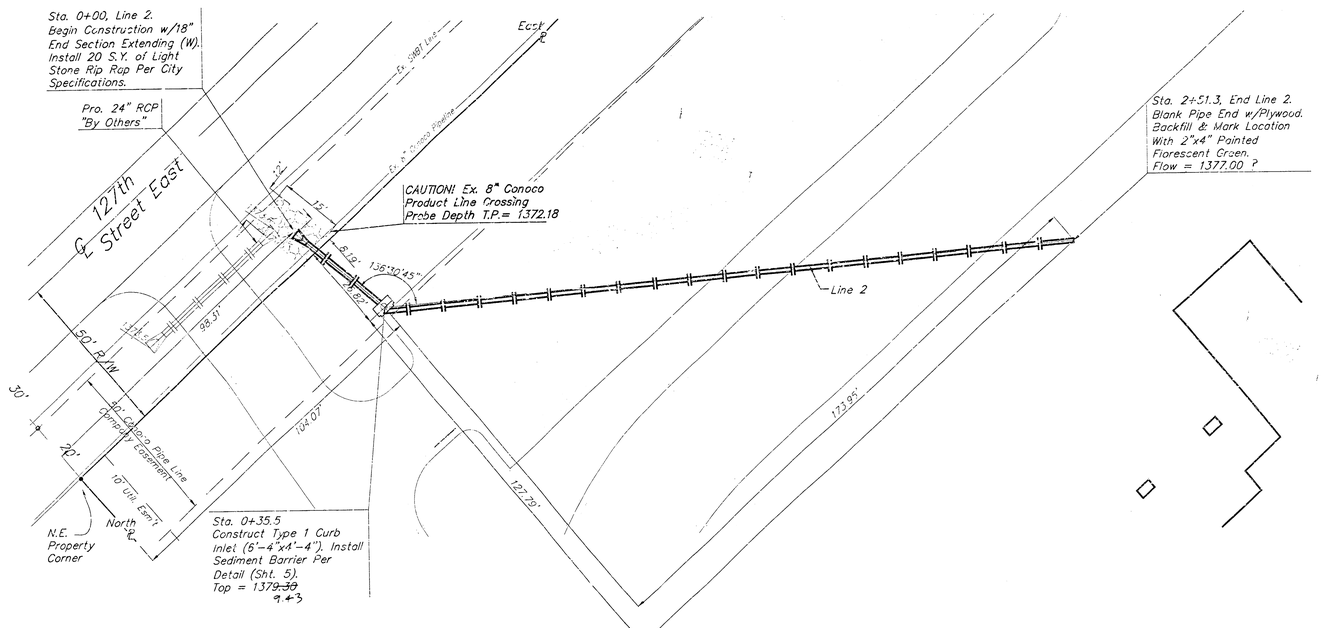
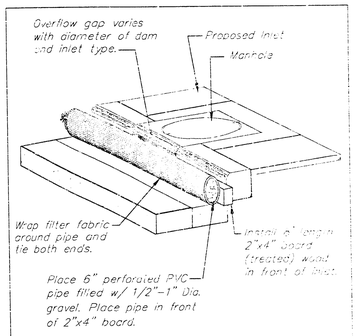


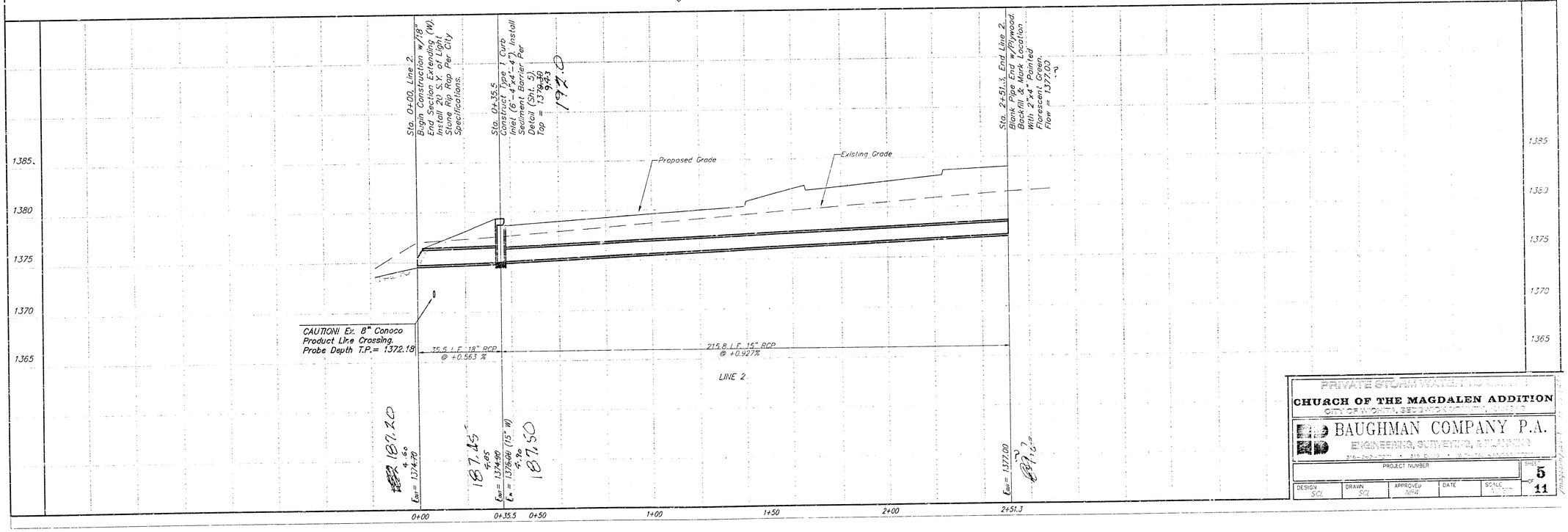
1" = 20'
• = IPON



INLET PROTECTION

Perforated Pipe w./ Gravel

As Built 11/01 KK



PRIVATE STORM WATER TO SERVE

CHURCH OF THE MAGDALEN ADDITION

CITY OF WICHITA, SEDGWICK COUNTY, KANSAS

BAUGHMAN COMPANY P.A.

ENGINEERING, SURVEYING, & PLANNING

316-262-7271 • 315 E. 11th ST. • WICHITA, KANSAS 67214

PROJECT NUMBER					SHEET
DESIGN SCL	DRAWN SCL	APPROVED NPW	DATE	SCALE	5 OF 11

BENCHMARKS:

LOUNTY Benchmark #1:
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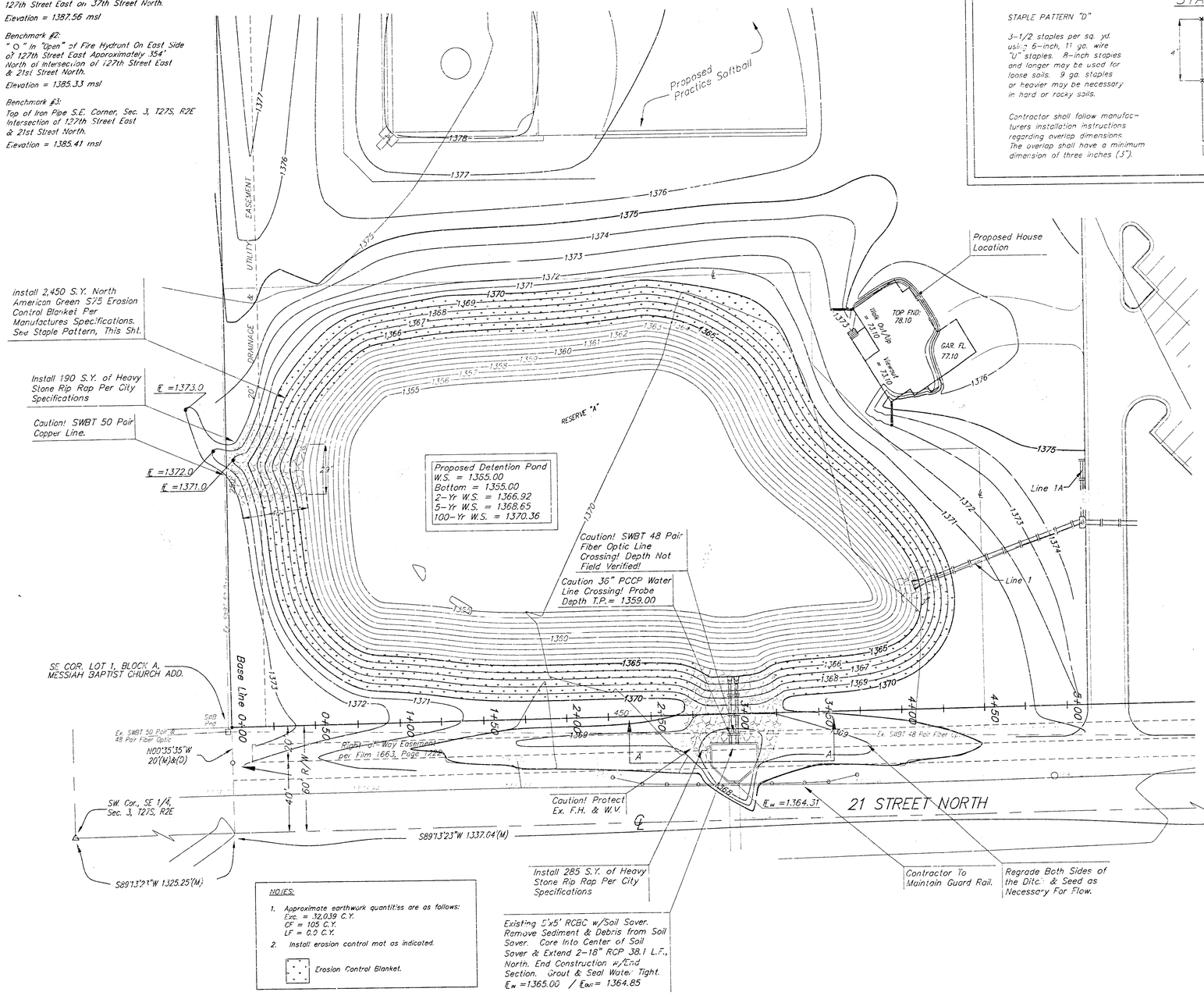
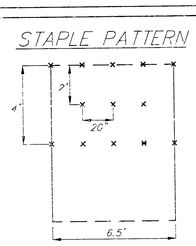


STAPLE PATTERN

STAPLE PATTERN "D"

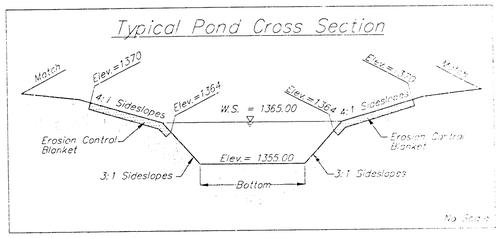
3-1/2 staples per sq. yd. using 6-inch, 11 ga. wire "U" staples. 8-inch staples and longer may be used for loose soils. 9 ga. staples or heavier may be necessary in hard or rocky soils.

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



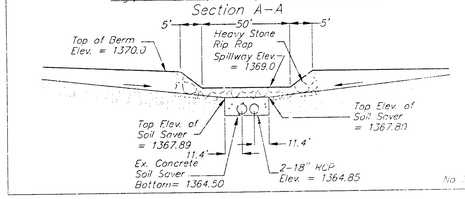
1" = 30'
• = IRON

Typical Pond Cross Section



Typical Rip Rap Weir Detail

Section A-A



NOTES:

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

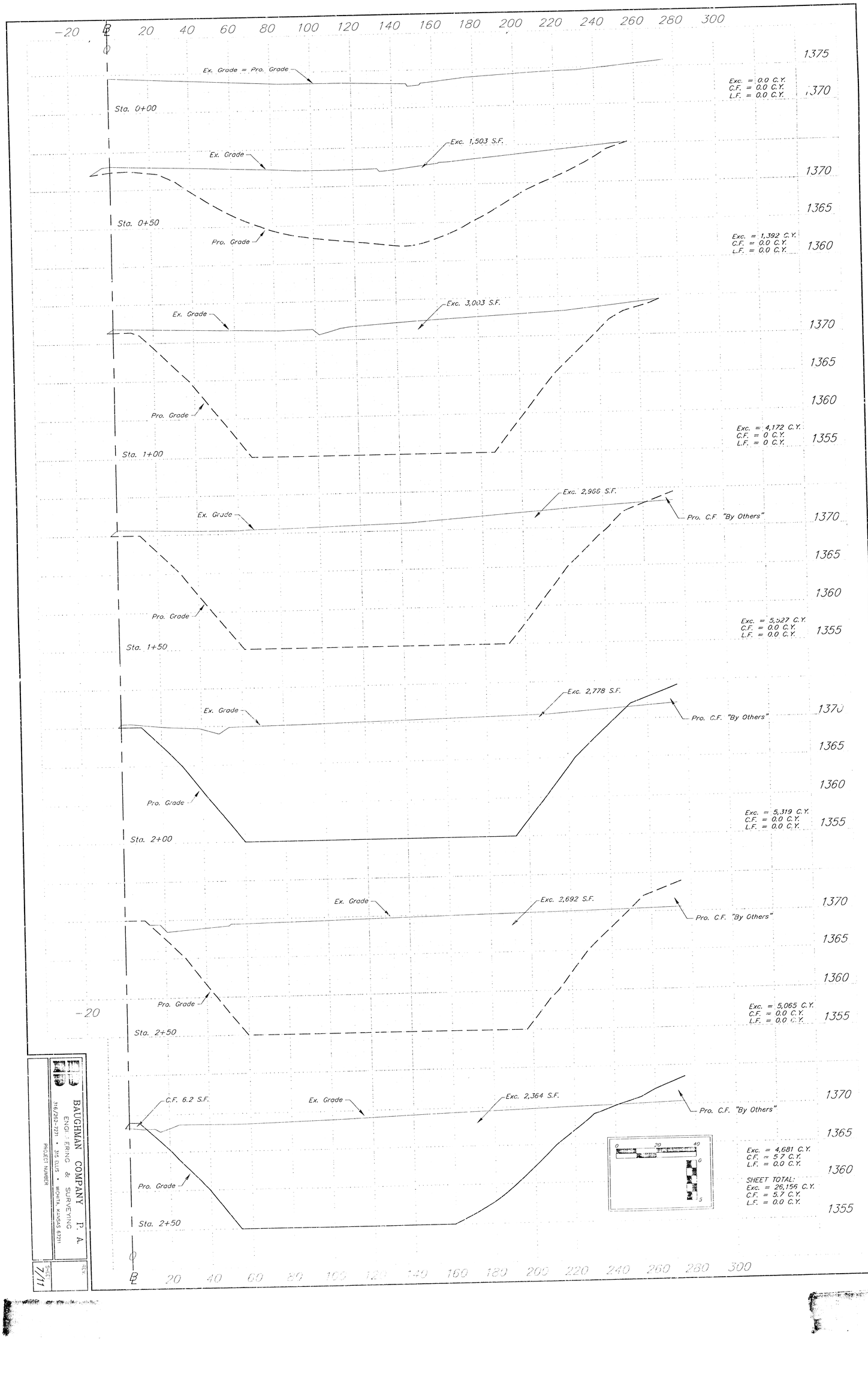
Erosion Control Blanket.

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

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING & PLANNING
316-262-2691 • 316-636-2010 • WWW.BAUGHMANCO.COM

PROJECT NUMBER

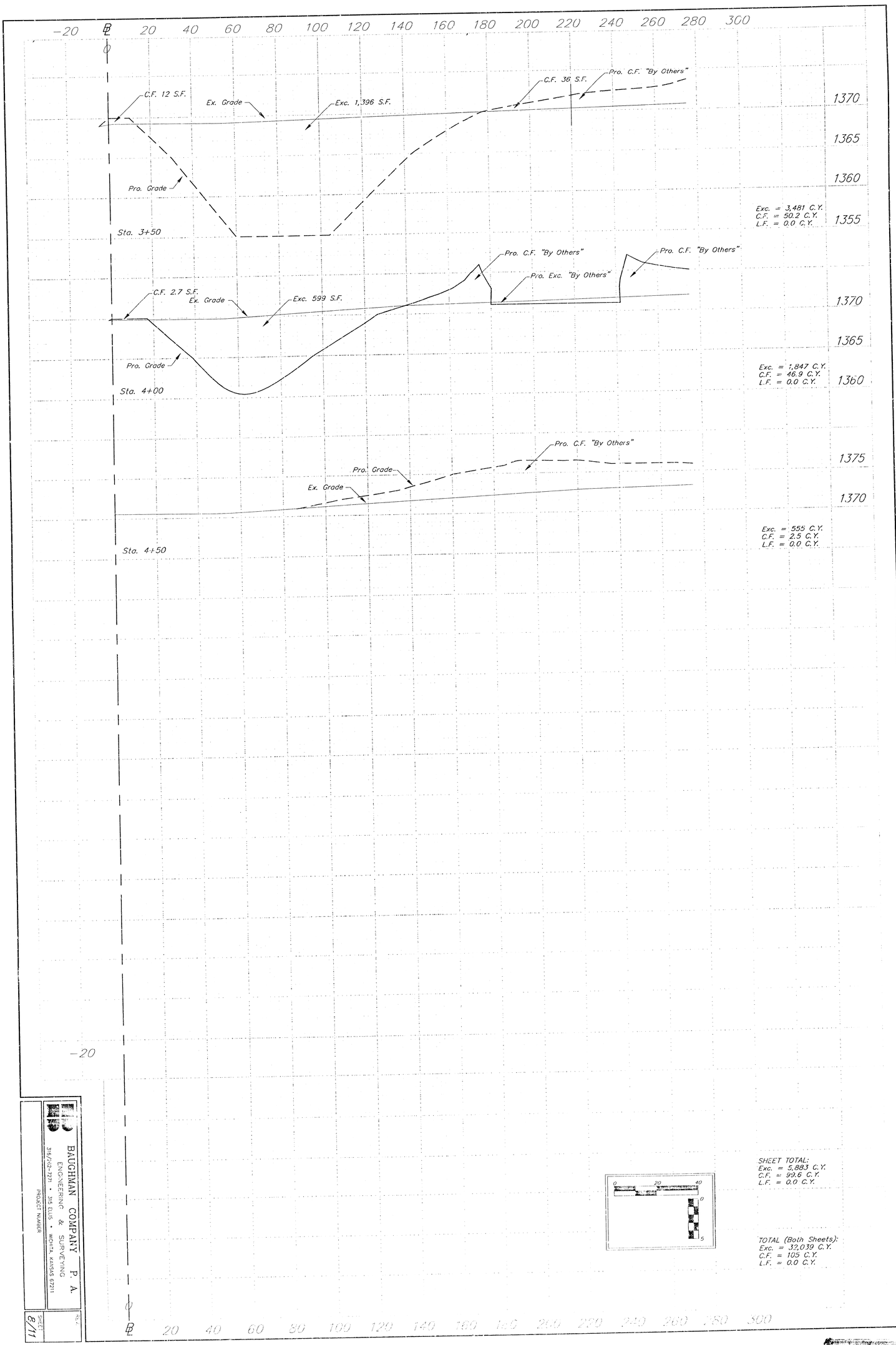
DESIGN	DRAWN	APPROVED	DATE	SCALE	SHEET
SVL	SVL	RWM	2/21/12	N/A	6 of 11



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

SHEET 7/11

REV.



BAUGHMAN COMPANY P. A.
ENGINEERING & SURVEYING
316/792-1271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER

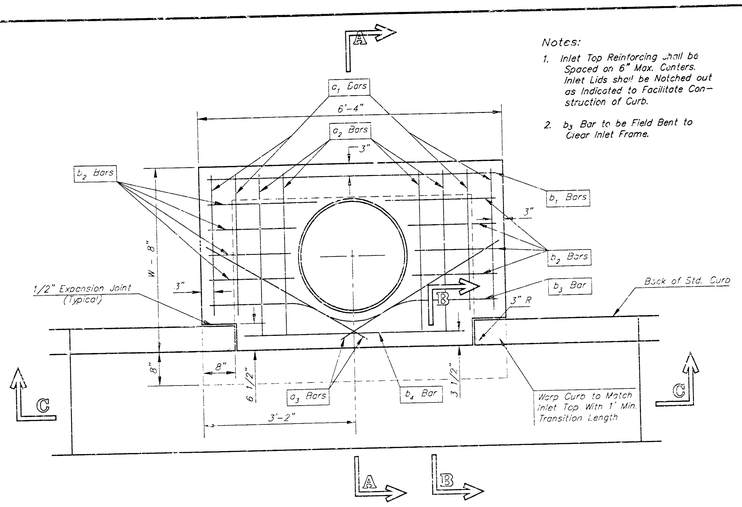
SHEET 8/11

REV.

0 20 40
0
5

SHEET TOTAL:
Exc. = 5,883 C.Y.
C.F. = 99.6 C.Y.
L.F. = 0.0 C.Y.

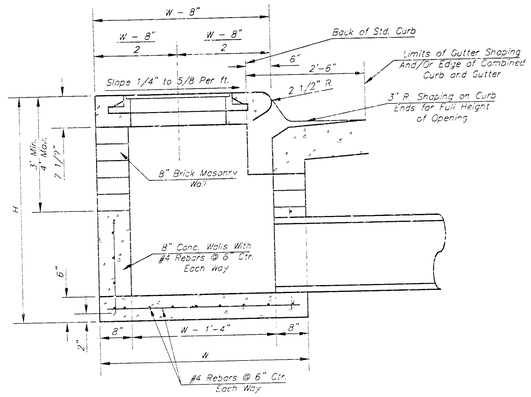
TOTAL (Both Sheets):
Exc. = 32,039 C.Y.
C.F. = 105 C.Y.
L.F. = 0.0 C.Y.



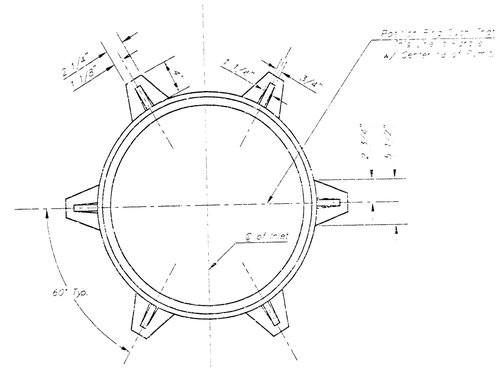
PLAN

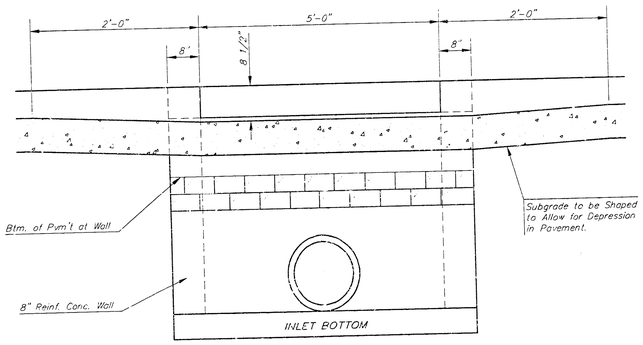
Notes:

1. Inlet Top Reinforcing shall be Spaced on 6" Max. Centers. Inlet Lids shall be Notched out as Indicated to Facilitate Construction of Curb.
2. b_3 Bar to be Field Bent to Clear Inlet Frame.

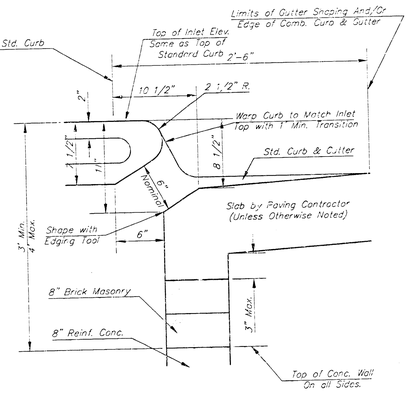


SECTION A–A

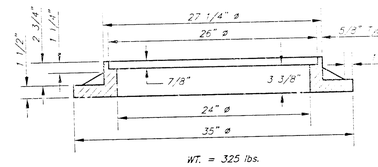




SECTION C–C



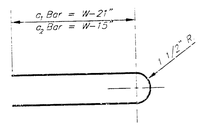
SECTION B–B



WT. = 325 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.



BENDING DIAGRAM

STEEL SCHEDULE

BAR	c_1	a_2	a_3	b_1 W=4'-4"	b_1 W=5'-4"	b_1 W=6'-4"	b_1 W=7'-4"	b_1 W=8'-4"	b_2	b_3	b_4	Wt. Lbs.
NUMBER	4	4	2	1	3	5	7	9	6	1	1	
SIZE	#4	#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"	4'-8"	60±
LENGTH W=5'-4"	7'-7"	8'-7"	5'-0"	–	6'-1"	–	–	–	1'-9"	6'-2"	4'-8"	81±
LENGTH W=6'-4"	9'-7"	10'-7"	6'-0"	–	–	6'-1"	–	–	1'-9"	6'-2"	4'-8"	101±
LENGTH W=7'-4"	11'-7"	12'-7"	7'-0"	–	–	–	6'-1"	–	1'-9"	6'-2"	4'-8"	121±
LENGTH 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±

GENERAL NOTES

1. 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.
2. 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.
3. 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.
4. The ends of all pipes installed in inlets shall be cut off flush with the inside face of the inlet wall.

Revised - Dec. 31, 1984

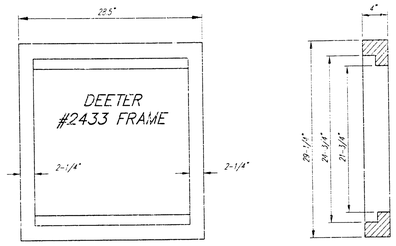
TYPE 1 CURB INLET

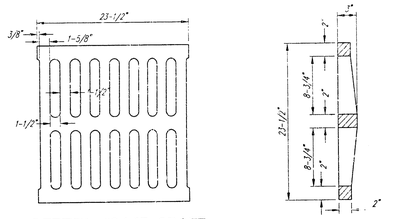
INLET OPENING = STD.

BAUGHMAN COMPANY P.A.

ENGINEERS, SURVEYORS, PLANNERS

PROJECT NUMBER					SHEET 9 OF 11
DESIGN C.D.W.	DRAWN STAFF	APPROVED	DATE	SCALE	

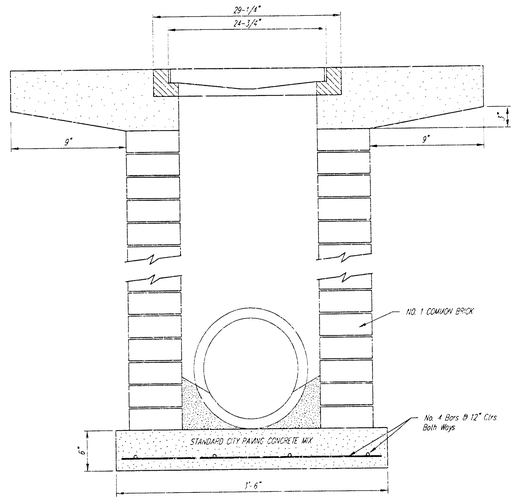


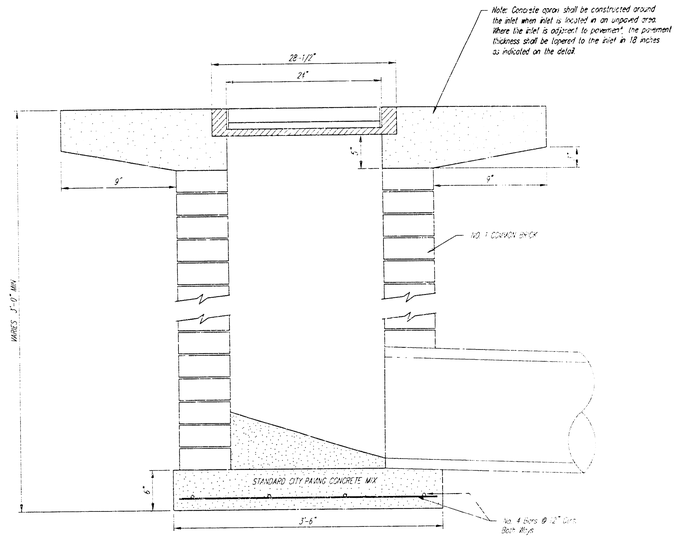


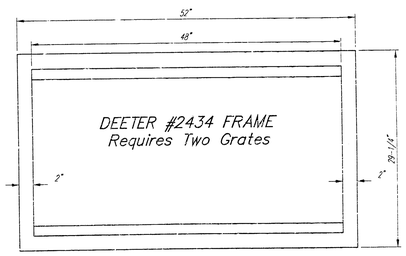
DEETER #2433 GRATE

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

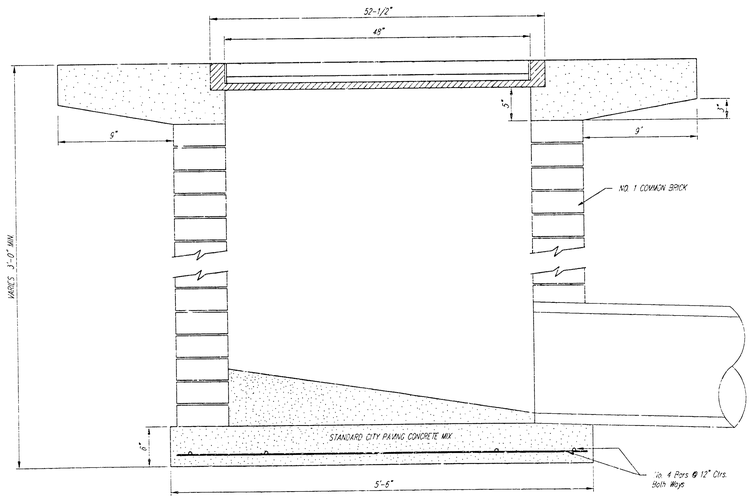








Double 24" x 24" Frame Detail



CITY OF WICHITA

STANDARD DROP INLET

Church of the Magdalen Addition

BAUGHMAN COMPANY P.A.

ENGINEERING, SURVEYING, PLANNING

PROJECT NUMBER					SHEET 10 OF 11
DESIGN STAFF	DRAWN STAFF	APPROVED	DATE	SCALE	

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 IMPEDE THE FLOW OF THIS DRAINAGE PLAN SHALL BE ALLOWED.

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

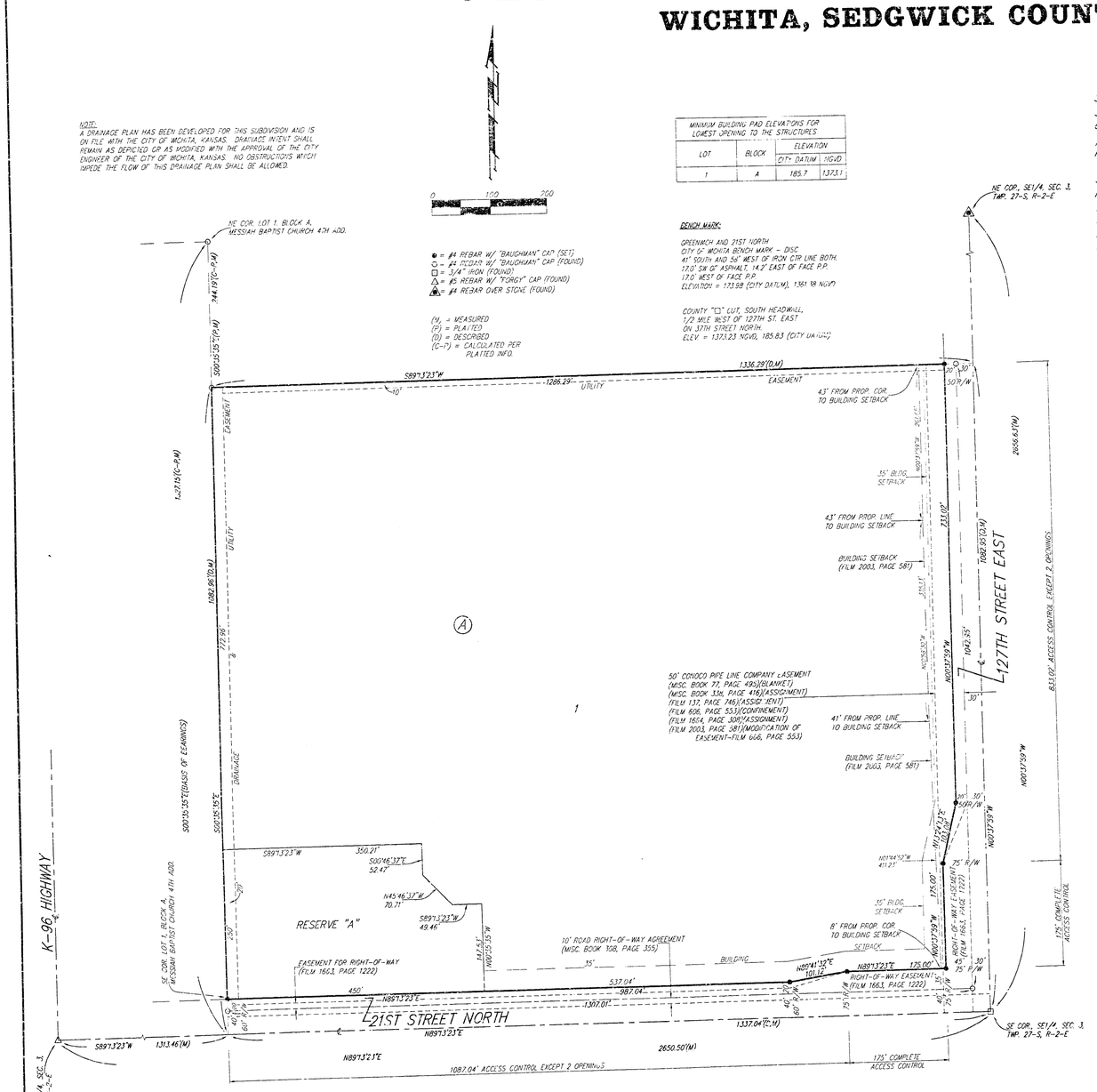
BENCH MARK:

GREENWICH AND 21ST NORTH
CITY OF WICHITA BENCH MARK - DISC
41' SOUTH AND 56' 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), 1361.98 NGVD

COUNTY "□" CUT, SOUTH HEADWALL,
1/2 MILE WEST OF 127TH ST. EAST
ON 37TH STREET NORTH.
ELEV. = 1373.23 NGVD, 185.83 (CITY DATUM)

● = #4 REBAR W/ "BAUGHMAN" CAP (SET)
○ = #4 REBAR W/ "BAUGHMAN" CAP (FOUND)
□ = 3/4" IRON (FOUND)
△ = #5 REBAR W/ "FORGY" CAP (FOUND)
▲ = #4 REBAR OVER STONE (FOUND)

(M) = MEASURED
(P) = PLATTED
(D) = DESCRIBED
(C-1) = 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 SHELL PETROLEUM CORPORATION (MISC. BOOK 72, PAGE 411) AND LAST ASSIGNED TO CONOCO PIPE LINE COMPANY (FILM 1664, PAGE 308)

State of Kansas)
Sedgwick County) SS We, Baughman Company, P.A., Surveyors in aforesaid county and state 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 SE1/4 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 SE1/4, 1082.95 feet; thence west parallel with the south line of said SE1/4, 1336.29 feet to a point on the east line of Lot 1, Block A, Messiah Baptisi 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 SE1/4; thence east along the south line of said SE1/4, 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.

_____, Surveyor
Michael G. Conrey

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

_____, President
Eugene J. Gerber

State of Kansas)
Sedgwick County) 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

_____, Chairman
Francis S. Carofalo

_____, Secretary
Marvin S. Krout

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

_____, Mayor
Bob Knight

_____, City Clerk
Pat Burnett

Reviewed in accordance with K.S.A. 58-2005 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.

_____, County Clerk
James Alford

State of Kansas)
Sedgwick County) SS This is to certify that this plat has been filed for record in the office of the Register of Deeds, this____day of_____, 2000 at____o'clock__M; and is duly recorded.

_____, Register of Deeds
Bill Meek

_____, Deputy
Linda Kizzire

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