STORM WATER SEWER TO SERVE

Bishop Carroll High School

Private Project #1264 PPS (607861)

CITY OF WICHITA, KANSAS

Michael E. Lindebak, P.E. City Engineer

July, 2002

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Legal Description

Lot 1, Notre Dame High School, an Addition to Wichita, Sedgwick County, Kansas

Bench Marks

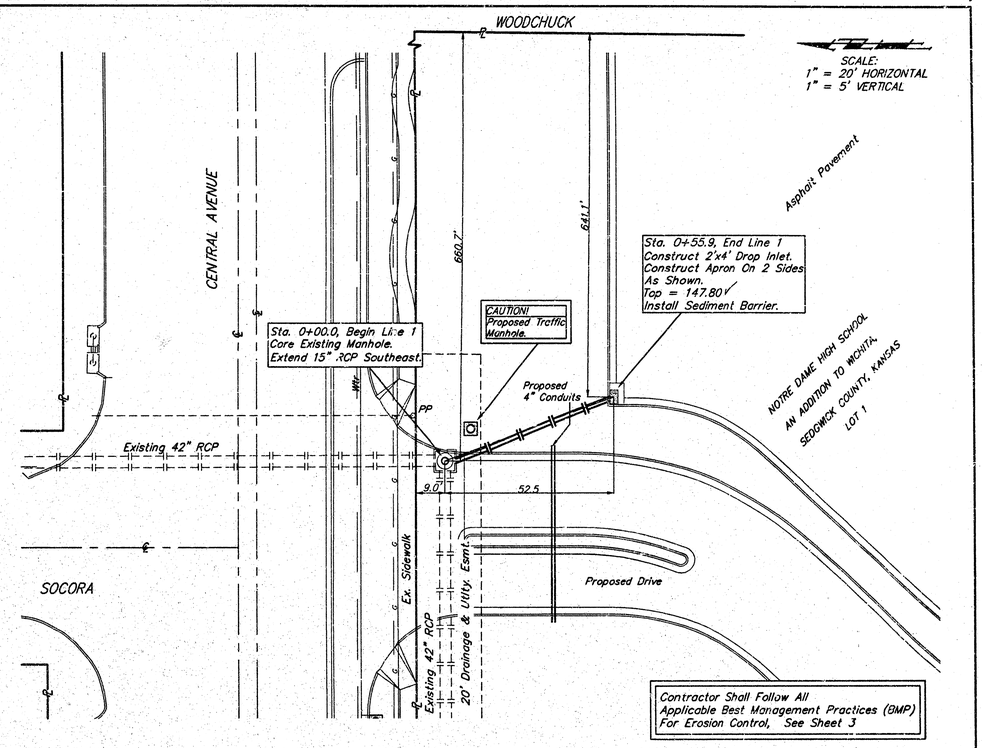
1. C.O.W. Disc 52' North of Central Avenue Centerline and 24' West of Woodchuck Lane Centerline.
   Elevation = 154.05 (City Datum)
2. C.O.W. Bench Mark 56.2' North of Central Avenue Centerline and 38' West of Tyler Centerline.
   Elevation = 143.90 (City Datum)

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

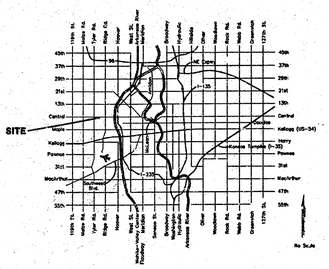
Storm Sewers Julianne Kallman 7-18-02

NOTE TO CONTRACTORS

Installation, 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 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	1-888-482-4950
Westar Energy (Electric)	383-8650
Aquila Energy (Gas)	1-800-303-0357
Southwestern Bell Telephone Company	1-800-286-8313
City of Wichita Water Department	268-4908
City of Wichita Sewer Maint. (San. Sewer)	268-4024
City of Wichita Storm Sewer Maint.	268-4090
City of Wichita Traffic Maint.	268-4034

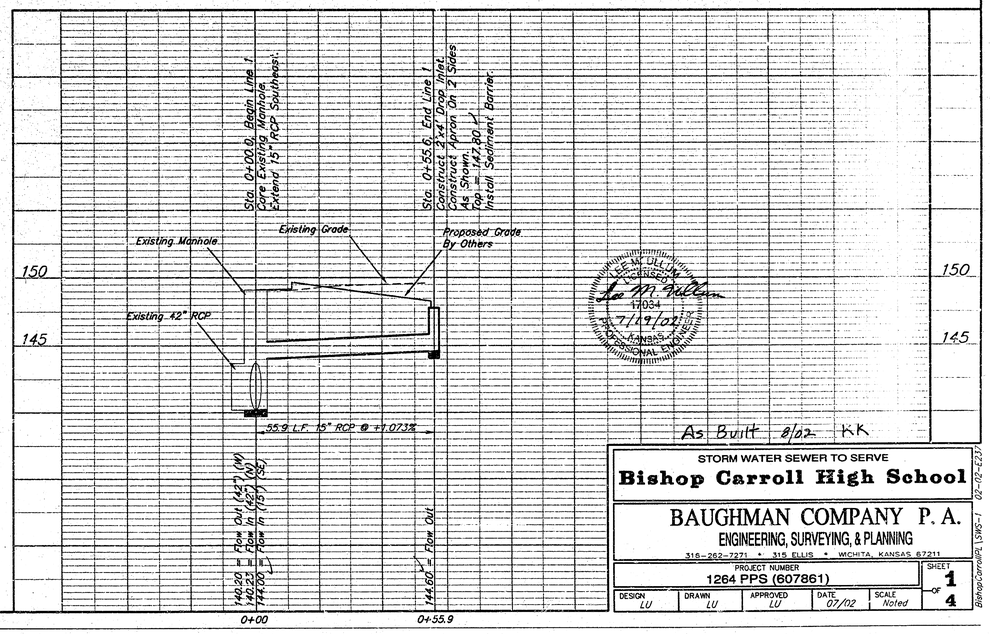
2. Utility service lines, poles, valve boxes, meters, et cetera are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. 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. Contractor shall not start on the project until all necessary bonds and permits have been obtained. 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. All storm sewers shall be installed in accordance with the most recent edition of City of Wichita, Kansas Standard Specifications for the Construction of City Projects.

6. All R/W areas disturbed by construction operations shall be seeded with K-31 Fescue at a rate of 8 lbs. per 1000 sq. feet or as per city specs. Contractor to prepare ground to city specifications.



LEE M. ULLUM
LICENSED
PROFESSIONAL
ENGINEER
Lee M. Ullum
17034
7/19/02
KANSAS
PROFESSIONAL ENGINEER

As Built 8/02 KK

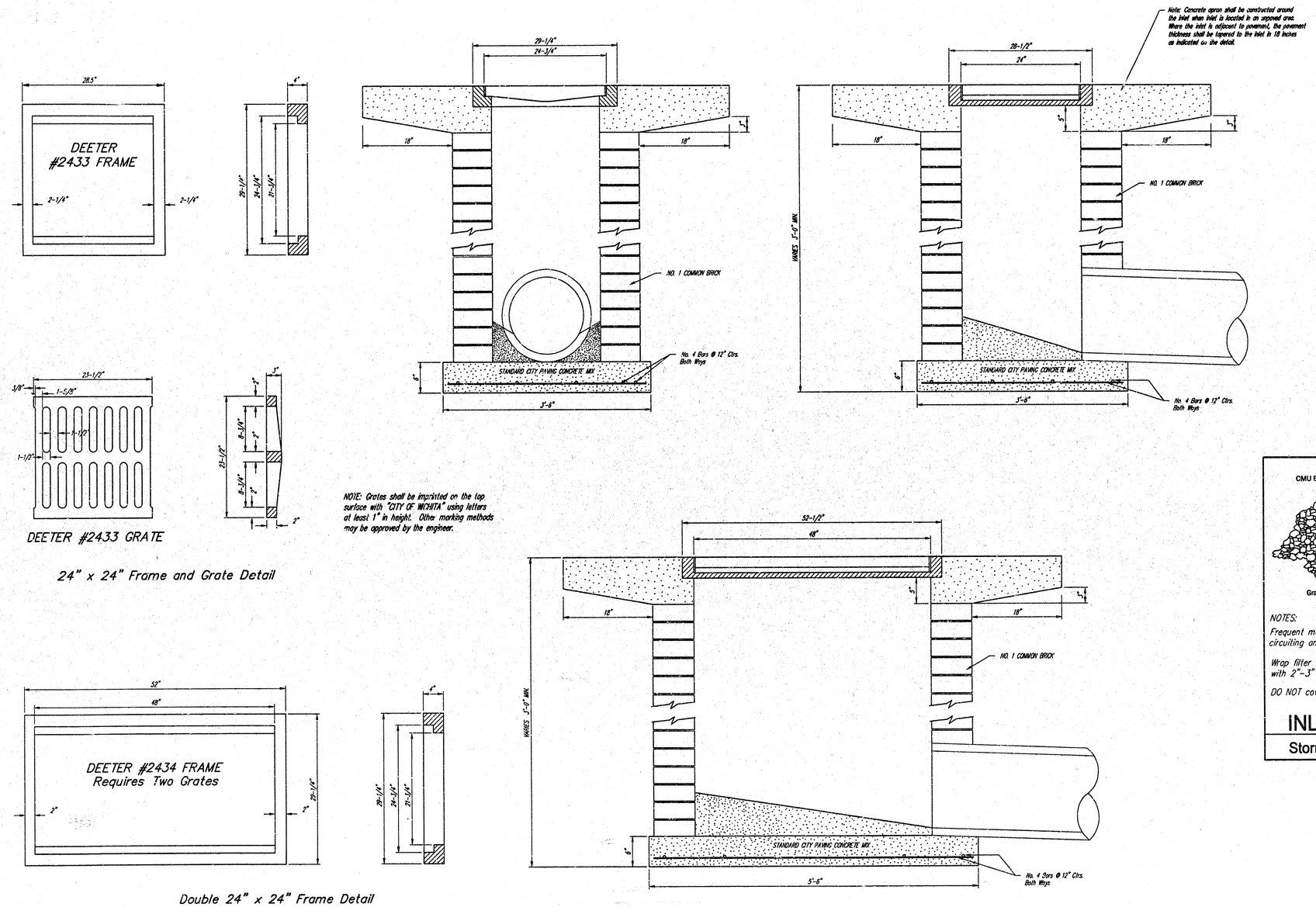
STORM WATER SEWER TO SERVE
Bishop Carroll High School

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

PROJECT NUMBER	SHEET
1264 PPS (607861)	1 OF 4

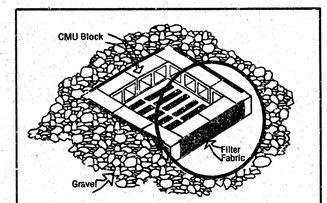
DESIGN	DRAWN	APPROVED	DATE	SCALE
LU	LU	LU	07/02	Noted

02-02-2237
BishopCarroll\PLS\PLS-1



24" x 24" Frame and Grate Detail

Double 24" x 24" Frame Detail



NOTES:

Frequent maintenance is required to minimize short-circuiting and to remove sediment deposits and buildup.

Wrap filter fabric around all CMU block and backfill with 2"-3" gravel rock to allow sediment deposits.

DO NOT cover inlet or grate with filter fabric.

INLET PROTECTION

Storm Drain with Gravel Apron

CITY OF WICHITA

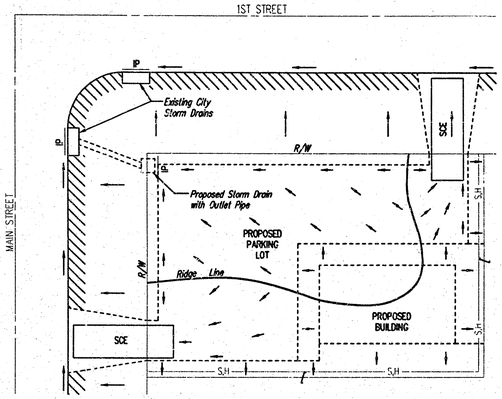
STANDARD DROP INLET

BAUGHMAN COMPANY P.A.

ENGINEERING, SURVEYING, & PLANNING

316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER					SHEET
1264 PPS (607861)					2 OF 4
DESIGN	DRAWN	APPROVED	DATE	SCALE	
STAFF	STAFF	LU	07/02	NONE	

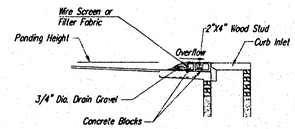


LEGEND

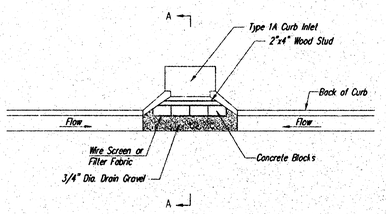
- Flow Direction
- IP — Inlet Protection – to be provided at all inlets subject to silt laden runoff.
- —SJH— Silt Fence or Hay Bale Barrier – to be installed along property lines where runoff from construction site can run onto other properties.
- SCE — Stabilized Construction Entrance – to be used at all locations where vehicles or equipment enter or exit property.
- Back of Curb Protection – to be installed whenever curb is backfilled to less than 3 inches from top and disturbed earth exists adjacent thereto. (See City Standard Details.)

General Notes

1. This standard detail sheet is a part of your building permit. The BMP's shown on this sheet are considered minimum standards. Whenever sediment enters the streets, storm sewers, ditches, or ponds, contractor will install additional BMP's, as needed, to correct the problem.
2. Follow these general principals on all commercial building sides.
3. The soil erosion BMP's shown hereon must be in place at all times during construction until such time as the site is re-established with paving or grass.
4. Failure to install, protect, and maintain BMP's are violations of Section 16.32 of the City Code and will subject the contractor to the penalties provided therein. Included with your permit is an orange "notice" sign that must be posted on-site in a conspicuous place at all times during construction. This sign is provided to assist you in the maintenance of BMP'S.
5. Back of Curb Protection: Can include hay bale, silt fence, or Curlex barrier, as shown on City BMP standard details. This BMP must remain in place until the area between the curb and right-of-way line has been permanently stabilized.
6. The General Contractor is responsible for the installation and maintenance of all BMP's.
7. Should the site abut a lake, BMP's will be installed to prevent sediment from entering the lake.
8. Any mud inadvertently tracked onto any street will be cleaned up by the general contractor at the end of each day's work.



SECTION A–A



CURB INLET GRAVEL FILTERS
(INLET PROTECTION–RESIDENTIAL STREETS ONLY)

NOTE: Other types of curb inlet protection may be approved by the city so long as equal protection is provided.

A gravel inlet filter shall be installed at sump locations on residential streets. This type of protection is not to be used on arterial or collector streets at any time that it would pose an undue traffic hazard.

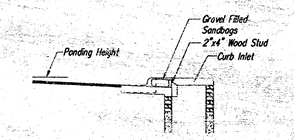
Instructions for Installing:

STEP 1: Place concrete blocks around the inlet as shown on drawing. Insert 2x4 board as shown.
STEP 2: Wrap 1/2" mesh wire screen around the concrete blocks.
STEP 3: Place 1" to 1-1/2" diameter rock around the blocks and wire screen. Be sure the rock extends down from the top of the concrete block.
STEP 4: To prevent damage to vehicles, signs warning drivers about the structures may be necessary. An alternative installation is the use of gravel bags supported by a 2"x4" board to prevent collapsing.

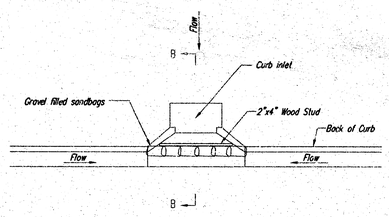
Use of rock with diameters smaller than 1" in the bag may result in clogging of pores and reduce the amount of water flowing into an inlet.

Maintenance:

All curb inlet gravel filters shall be inspected and repaired after each runoff event. Sediment deposits are to be removed once material is within 8 cm (3 inches) of the top of any block. Periodically, the gravel shall be raked to increase infiltration and filtering of runoff waters. Accumulated sediment is to be removed immediately from roads and streets.

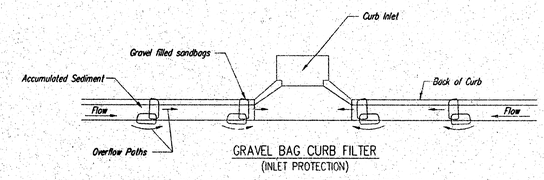


SECTION B–B



CURB INLET SANDBAG FILTERS
(INLET PROTECTION)

NOTE: Other types of curb inlet protection may be approved by the City so long as equal protection is provided.



GRAVEL BAG CURB FILTER
(INLET PROTECTION)

NOTE: Place two or more sets of bags in a manner that results in maximum support. The flow line bag must be lower than top of curb.

CURB SEDIMENT TRAPS

When inlets are located on streets having a grade (i.e., sump conditions do not exist), installing gravel (or sand) bags in the gutter flow line to create small sediment traps can be considered. Gravel bags are recommended over sand bags to allow for drainage.

If the spacing between bags becomes too large, little sediment may be trapped. Spacing of bags should be completed using the table or graph that illustrates placement distances based upon street slope. When installed in the gutter, bag tops must be lower than the sidewalk.

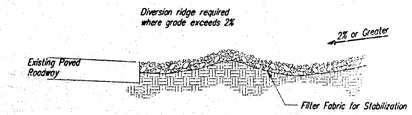
Spacing:

Gravel bags are to be placed according to street grades using the following table or graph that appears below.

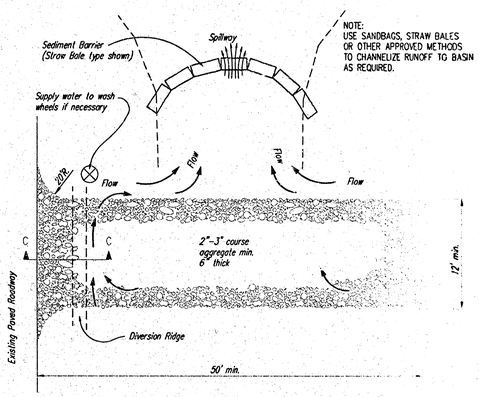
GRADE (%)	SPACING (FEET)
0.5	75
1.0	45
2.0	18
3.0	12
4.0	9
5.0	6

Maintenance:

Collected sediment shall be removed after every runoff event. Bags that are destroyed by vehicular traffic or through natural deterioration are to be immediately replaced.



SECTION C–C



STABILIZED CONSTRUCTION ENTRANCE

NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN, AS SHOWN ABOVE.
4. DRIVE ENTRANCES ONTO RESIDENTIAL LOTS WILL NOT BE REQUIRED TO HAVE THE SEDIMENT BARRIER SHOWN, BUT WHEEL WASHING MAY BE REQUIRED IF STABILIZED ENTRANCE IS NOT SUFFICIENT TO KEEP MUD FROM BEING TRACKED ONTO ADJACENT STREET. ENTRANCE SHALL EXTEND FROM BACK OF CURB TO DWELLING.

CITY OF WICHITA

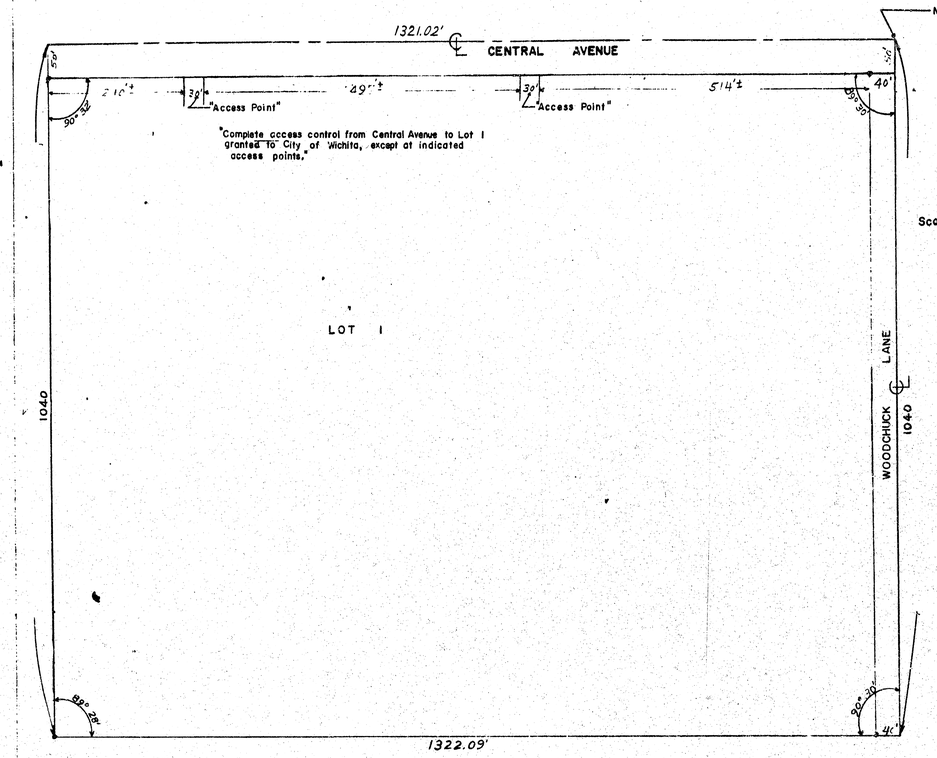
SOIL EROSION BMP DETAILS

CHRISTOPHER M. CARRIER, P.E.
STORM WATER ENGINEER

PROJECT NUMBER	DCA NO.
1264 PPS (607861)	NA
DATE 07/02	SHEET 3 OF 4

NOTRE DAME HIGH SCHOOL

AN ADDITION IN WICHITA, SEDGWICK COUNTY, KANSAS



Scale N 1"=100'

STATE OF KANSAS)
COUNTY OF SEDGWICK) ss

I, Floyd B. Devlin, a Licensed Engineer in and for said County and State, do hereby certify that I have surveyed NOTRE DAME HIGH SCHOOL, an addition in Wichita, Sedgwick County, Kansas, and that the accompanying plat is a true and correct exhibit of property surveyed, described as follows: Beginning at a point on the east line of the NE 1/4, NW 1/4, Section 21, T-27-S, R-1-W of the 6th P.M., thence south along the east line of said NE 1/4, a distance of 1040 feet; thence right at an internal angle of 90° 30', for a distance of 1322.09 feet; thence right at an internal angle of 89° 28', for a distance of 1040 feet; thence right at an internal angle of 90° 32' for a distance of 1321.02 feet to the point of beginning.

Floyd B. Devlin
FLOYD B. DEVLIN: Consulting Engineer

Know all men by these presents that CATHOLIC DIOCESE OF WICHITA, a non-profit corporation, has caused the land described in the surveyors certificate to be platted into one lot and one street and one avenue to be known as NOTRE DAME HIGH SCHOOL, an addition in Wichita, Sedgwick County, Kansas.

All streets shown on the plat and not heretofore dedicated are hereby dedicated to and for the use of the public. Complete access control from Central Ave. from that portion of Lot 1, NOTRE DAME HIGH SCHOOL ADDITION, except those two 30 foot access areas shown on the face of the plat, is hereby granted to the City of Wichita.

CATHOLIC DIOCESE OF WICHITA

Leo C. Byrne
LEO C. BYRNE, President

Thomas C. Glynn
THOMAS C. GLYNN, Secretary

STATE OF KANSAS)
COUNTY OF SEDGWICK) ss

Be remembered that on this 25TH day of MARCH, 1963, before me a notary in and for said county and state, came LEO C. BYRNE, known to me to be the President of CATHOLIC DIOCESE OF WICHITA, who is personally known to me to be the same person who executed the foregoing instrument of writing, and such person duly acknowledged the execution of the same for and in behalf of and as the act and deed of said corporation. In testimony whereof I have hereto set my hand and affixed my notarial seal the day and year above written.

J. Francis Hesser NOTARY PUBLIC

My commission expires July 21, 1966

This plat of NOTRE DAME HIGH SCHOOL has been submitted to and considered by the WICHITA-SEDGWICK COUNTY METROPOLITAN AREA PLANNING COMMISSION, Wichita, Kansas, and is hereby transmitted to the Board of Commissioners of the City Wichita, Kansas, with the recommendation that such plat be approved as proposed.

Dated this 21st day of March, 1963.

Wichita-Sedgwick County Metropolitan Area Planning Commission

By Charles D. Anderson Chairman

Leland R. Edmonds Secretary

Approved by the Board of City Commissioners this 26th day of March, 1963.

Carla Bell Jr. Mayor

C H Funk City Clerk

6256

STATE OF KANSAS)
COUNTY OF SEDGWICK) ss

This is to certify that this instrument was filed for record in the Register of Deeds office on the 1st day of April, 1963, at 11:00 o'clock, a.m. and is duly recorded.

Rufus E. Deering Register of Deeds

Pearl Gilbert Deputy

3.00

Approved by the Board of County Commissioners this 30th day of March, 1963.

W.O. Williams County Clerk

Entered on transfer record this 1st day of April, 1963.

W.O. Williams County Clerk

N-47