

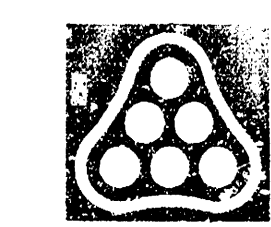
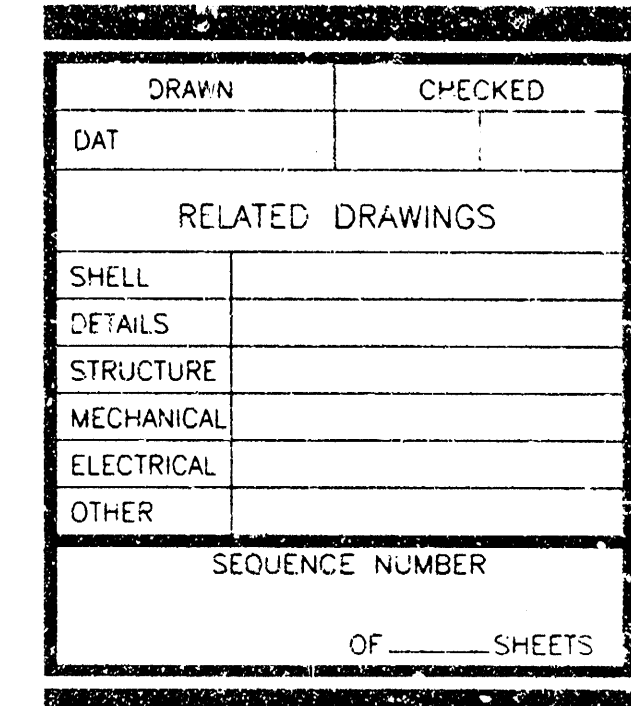
SCALE: 1"=100'

● = IRON FOUND

E.M.: CITY OF WICHITA STG. BENCH MARK DISC 84° EAST AND 94° SOUTH
OF THE INTERSECTION OF THE CENTERLINES MAIZE ROAD AND
21ST STREET NORTH

ELEV.=164.3 CITY DATUM
ELEV.=1351.7 M.S.L.

ESTABLISHED MINIMUM PAD (LOWEST OPENING) ELEVATIONS ARE AS FOLLOWS:
LOT 1, BLOCK 1 = 165.9 CITY DATUM, 1353.0 M.S.L.

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OUT PARCEL #3	
PLAT	
SHEET TITLE	
BUILDING	SHEET NUMBER
	CV2.2
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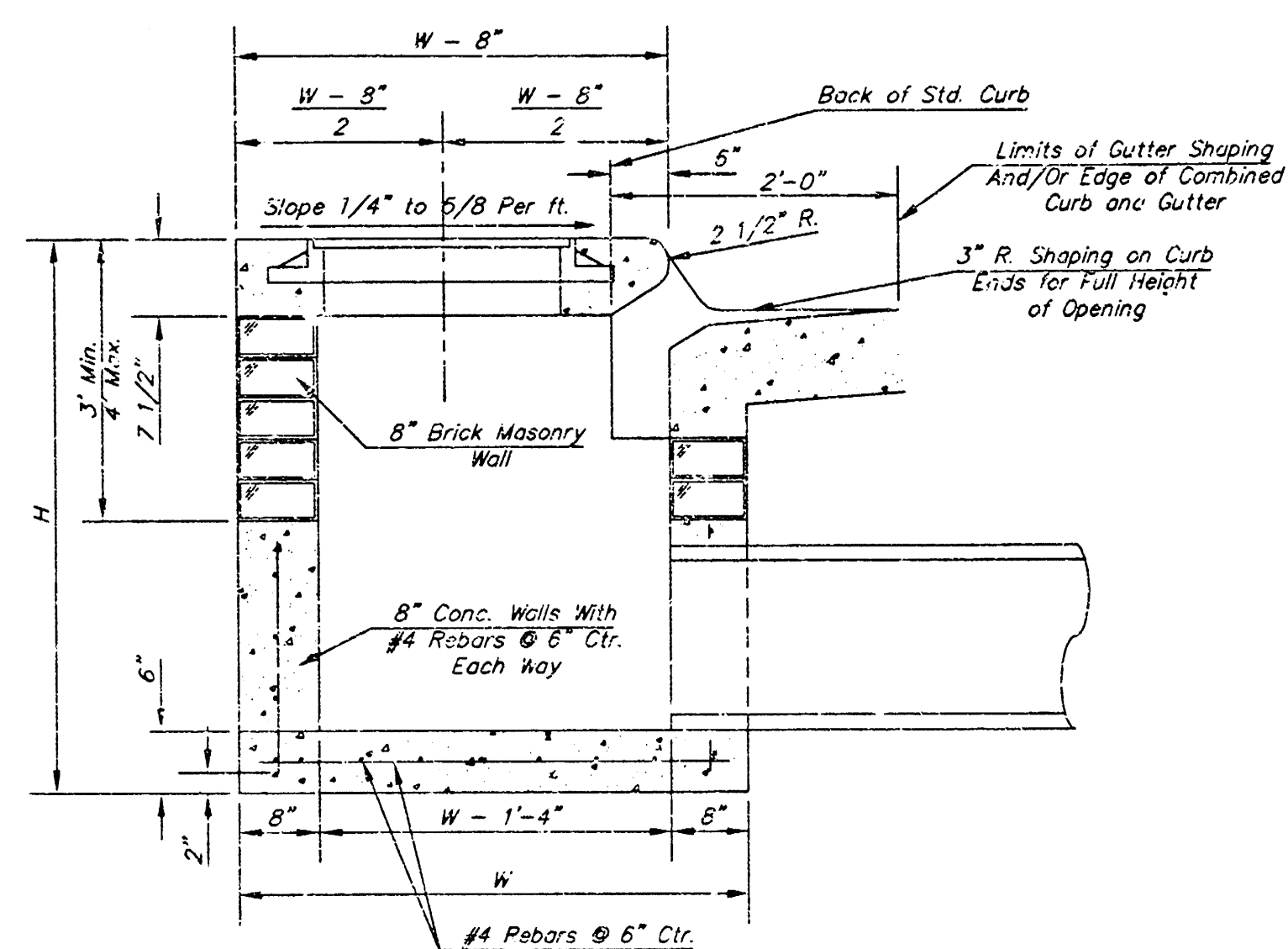
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SECTION C-C

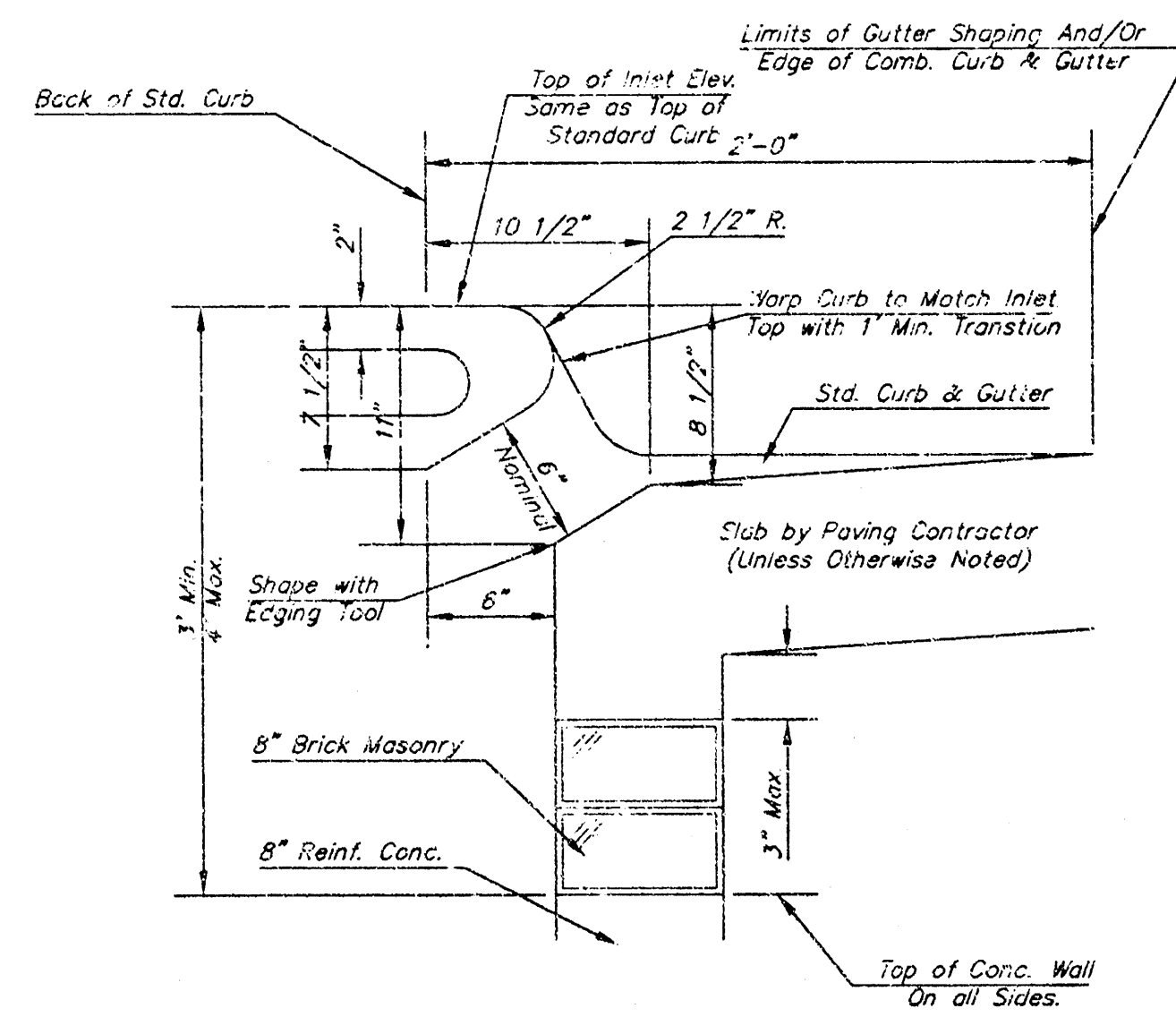
BAR	C ₁	C ₂	D ₁								D ₂	D ₃	WT. LOS.
			#1	#2	#3	#4	#5	#6	#7	#8			
NUMBER	4	2	1	3	5	7	9	6	2	1	1		
SIZE	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#6		
LENGTH	W ₁ =4'-0"	5'-2"	6'-4"	4'-0"	6'-1"	-	-	-	1'-5"	6'-2"	4'-8"	8'-0"	
	W ₂ =4'-4"	1'-2"	6'-2"	5'-0"	-	6'-1"	-	-	1'-9"	6'-2"	4'-8"	8'-1"	
	W ₃ =4'-4"	9'-2"	10'-2"	6'-0"	-	6'-1"	-	-	1'-9"	6'-2"	4'-5"	10'-1"	
	W ₄ =4'-4"	11'-7"	12'-7"	7'-0"	-	-	6'-1"	-	1'-9"	6'-2"	4'-8"	12'-1"	
	W ₅ =4'-4"	13'-7"	14'-2"	8'-0"	-	-	-	5'-1"	1'-9"	6'-2"	4'-8"	14'-1"	

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

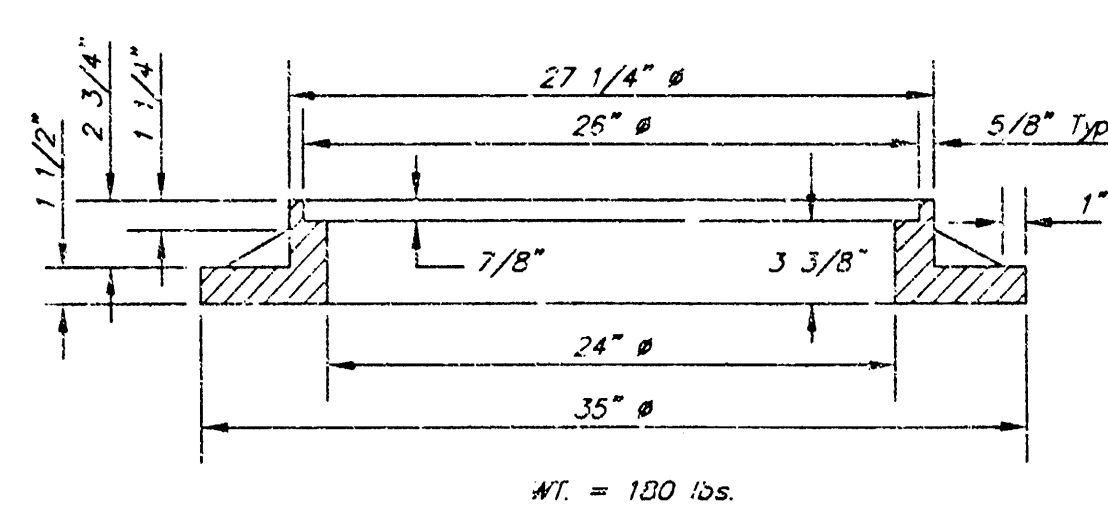
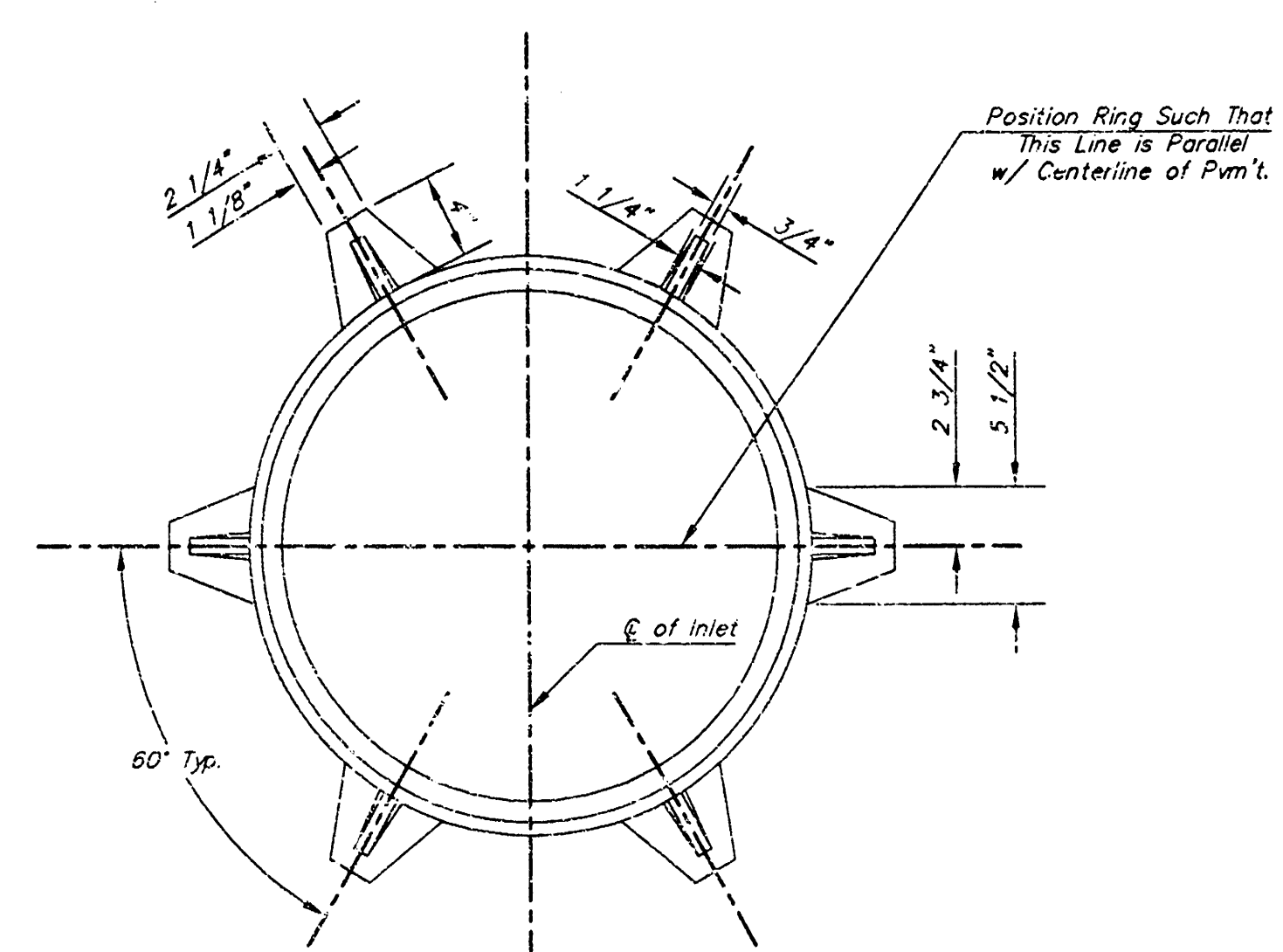
W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4'-4"	3'-8" 6'-4" 7 1/2"	21" & SMALLER	0.38±
5'-4"	4'-8" 6'-4" 7 1/2"	24" & 30"	0.51±
6'-4"	5'-8" 6'-4" 7 1/2"	36" & 42"	0.64±
7'-4"	6'-8" 6'-4" 7 1/2"	48" & 54"	0.77±
8'-4"	7'-8" 6'-4" 7 1/2"	60" & 66"	0.90±



SECTION A-A

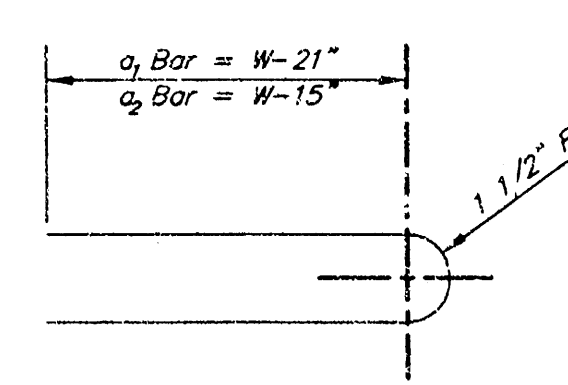


SECTION B-B



MANHOLE RING AND COVER

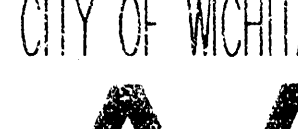
*See City of Wichita Standard Manhole Ring and Cover Detail Sheet for Cover Details to Be Used With Inlet Frame.



BENDING DIAGRAM

GENERAL NOTES

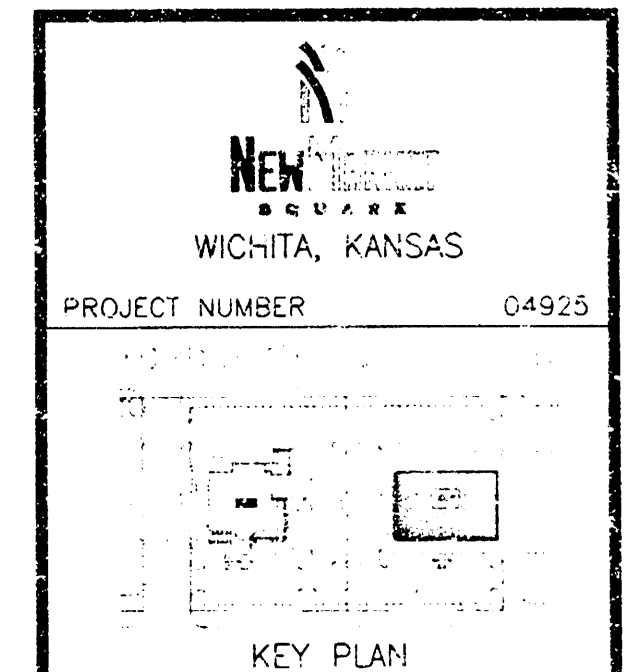
1. Concrete tops to be installed on this mortar cushion to insure full support along brick walls. Concrete tops may be cast in place or precast. Concrete used for inlet construction shall be concrete pavement mix.
2. Contractor shall have the option of constructing "B" brick masonry walls between the 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.

THE CITY OF WICHITA  CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 525 SOUTH MAIN STREET WICHITA, KANSAS 67202 (316) 268-4174 (316) 268-4174 FAX	STANDARD TYPE 1 CURB INLET OPENING = 6" x 5'-0" JAMES L. ARMOUR, P.E. - ACTING CITY ENGINEER <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;"> PROJECT NUMBER 1513 PDS </td> <td style="width: 50%; padding: 5px;"> OGA NO. (607861) </td> </tr> </table> DATE: _____ MAR 96	PROJECT NUMBER 1513 PDS	OGA NO. (607861)
PROJECT NUMBER 1513 PDS	OGA NO. (607861)		

[illegible][illegible]

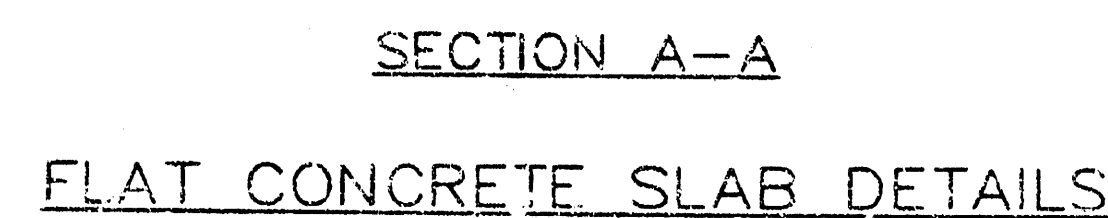
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OUT PARCEL #3

STANDARD TYPE 1 CURB INLET	
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BUILDING	SHEET NUMBER
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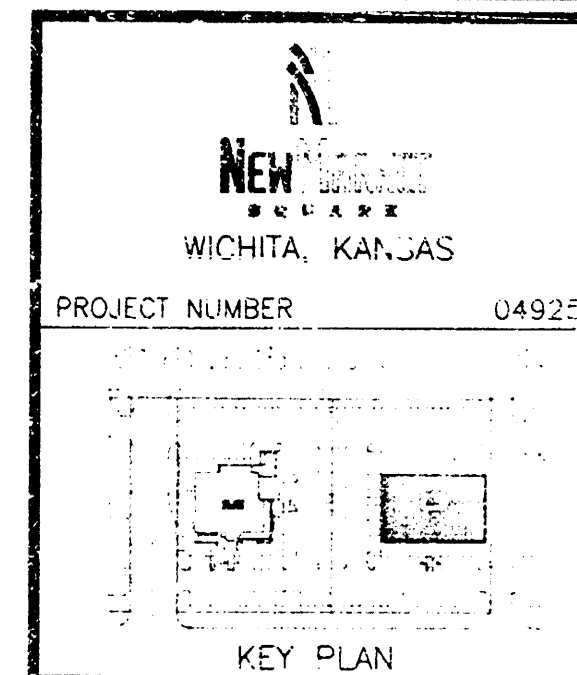


1. Mortar used in masonry construction shall contain 8 sacks of cement per cubic yard. Concrete used in manhole bases shall conform to the requirements of concrete for concrete pavement construction as specified in the city standard paving specifications. A using city concrete cement mix without air entraining admixture. Mortar shall be placed around the manhole ring as shown on the drawings when manholes are constructed in unpaved areas. Manholes constructed where pipe sizes are smaller than 24" shall have an inside diameter of 4" and manholes constructed where pipe sizes are 24" or larger shall have an inside diameter of 6". Completed manholes shall be without leaks and water tight.
2. Reinforcing steel shall be installed in the manhole bases at a shall depth of 4'-6" and placed on 6" centers in both directions. The manhole base reinforcement shall be placed 6" above the bottom of the manhole base. All manhole bases for manholes installing reinforcing steel shall be included in the unit price bid for the manhole.
3. The floors of all manholes shall be shaped with flow channels such that the manholes will be self cleaning and free of areas where debris could collect. Sewage flows through the manholes from all inlet pipes to the outlet pipe. Flow channels shall be formed to the bottom of the manhole and the inlet pipes and the outlet pipe as shown by the drawing. Manhole floors shall have slopes of 3 inches per foot in the direction of the pipe. The floor shall slope toward the flow channels. Pipes laid through manholes shall have the top half removed to rest lines for the full inside diameter of the manhole. Manhole floors shall then be shaped around the bottom half of the pipe which forms the flow channel.
4. Pipes installed within the excavation made for the manhole shall be cradled with concrete to the limits of the manhole excavation. When clay pipe is used, the concrete shall extend to the top of the pipe outside the manhole. The cradle shall be terminated at the clay pipe joint in a manner which will maintain the rigidity of the joint. The concrete shall extend to the manhole excavation or to clay pipe joints adjacent to manhole shall be included in the unit price bid for the manhole.
5. Manhole cover castings and manhole frame castings shall conform to the requirements as indicated in the standard specifications and as shown in the standard detail drawings.
6. The crowns of inletting pipes shall never be set lower than the crown of the outflowing pipe.
7. Standard shallow manholes type "P" and "C" shall be pipe or at the unit price bid per each for the type and size of the pipe. The manhole shall have manhole diameters will be 4" unless indicated otherwise.
8. All work used in manhole construction shall meet Grade B of ASTM 652 or C62-87.

[illegible][illegible]

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OUT PARCEL #3	
SHALLOW MANHOLE TYPE 'P'	
SHEET TITLE	
BUILDING	SHEET NUMBER
	CV2.5
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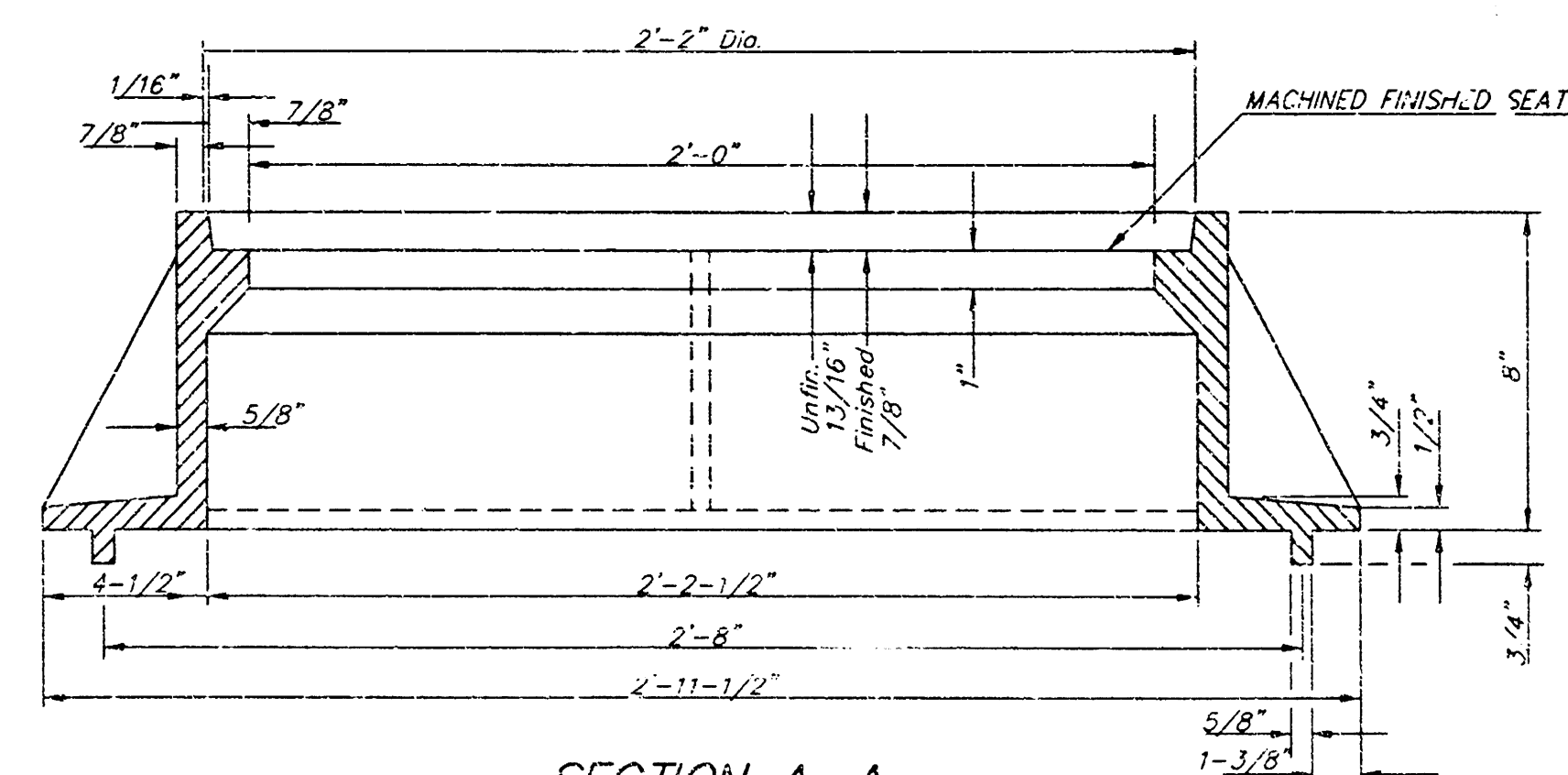
The diagram shows a thick plate with a semi-circular bottom. A rectangular hole is located in the upper part of the plate. The hole's width is labeled 'b' and its height is labeled 'h'. The hole is shaded with diagonal lines. The total width of the plate is labeled 'B = 3/4'' and the total height is labeled 'H = 1/4''.

3. MANHOLE CASTINGS SHALL BE MANUFACTURED USING GOOD QUALITY GRAY IRON CONFORMING TO CLASS 30 OF A.S.T.M. DESIGNATION A-43. DIMENSIONS AND HEIGHTS SHOWN ON THE DETAILED DRAWINGS SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS AND ANY DEVIATIONS FROM THE DIMENSIONS SHOULD BE APPROVED BY THE USER. ALL CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE DISTORTIONS OR OTHER DEFECTS.
4. MANHOLE CASTINGS SHALL WEIGH A MINIMUM OF 180 POUNDS ON THE SOLID COVER AND 240 POUNDS ON THE MANHOLE RING. THIS IS A TOTAL OF 420 POUNDS ON A RING AND COVER SET. CASTINGS WEIGHING LESS THAN THE MINIMUM SPECIFICATIONS WILL NOT BE ACCEPTED.
5. MANHOLE CASTINGS SHALL BE MANUFACTURED SUCH THAT A COVER MANUFACTURED BY ANY ONE FOUNDRY WILL FIT PROPERLY INTO THE FRAME MANUFACTURED BY ANY OTHER FOUNDRY AND STILL MEET ALLOWABLE CLEARANCES AND NON-ROCKING REQUIREMENTS. THIS WILL REQUIRE MANUFACTURING OF THE MATCHING FACES ON THE COVER AND THE FRAME TO CLOSE TOLERANCES.
6. THE OUTSIDE CIRCUMFERENCE OF THE VERTICAL FACE OF THE COVER AND THE INSIDE CIRCUMFERENCE OF THE VERTICAL FACE IN THE FRAME RECESS SHALL BE MANUFACTURED TO TOLERANCES SUCH THAT THE LEAKAGE BETWEEN THE COVER AND FRAME SHALL BE MINIMAL. THE INSIDE CIRCUMFERENCE OF THE VERTICAL FACE OF THE COVER AND THE INSIDE CIRCUMFERENCE OF THE COVER THE SEATING SURFACES BETWEEN THE COVER AND FRAME SHALL BE MACHINED SUCH THAT THESE SEATING SURFACES SHALL HAVE FULL CONTACTS FOR THEIR FULL CIRCUMFERENCE TO PRECLUDE THE COVER FROM ROCKING IN THE FRAME.
7. THE MANHOLE FRAME AND COVER SHALL BE MARKED WITH LETTERING INDICATING THE NAME OF THE MANUFACTURER AND THE YEAR WHEN THE COVER OR FRAME WAS CAST. THE USER SHALL BE FURTHER IDENTIFIED WITH REGARDS TO OWNERSHIP USING LETTERS AT LEAST 1 INCH IN HEIGHT. THIS IDENTIFICATION SHALL BE "DIT" OF WICHITA SEWER DEPARTMENT". THE WORD DEPARTMENT MAY BE USED INSTEAD OF SEWER DEPARTMENT. THE SURFACES OF THE COVER AND FRAME SHALL BE CHECKERED PATTERN DESIGN AS INDICATED ON THE DRAWINGS. SMOOTH BLOCKS SHALL BE UTILIZED TO HIGHLIGHT THE LETTERING ON THE COVER SURFACE. THE TOTAL AREA OF SMOOTH SURFACE BLOCKOUT SHALL BE MINIMUM 10% OF THE TOTAL SURFACE AREA OF THE COVER. THE TOTAL AREA OF SMOOTH BLOCKOUTS AND LETTERING MAY VARY FROM THAT SHOWN ON THE DETAILED DRAWING.

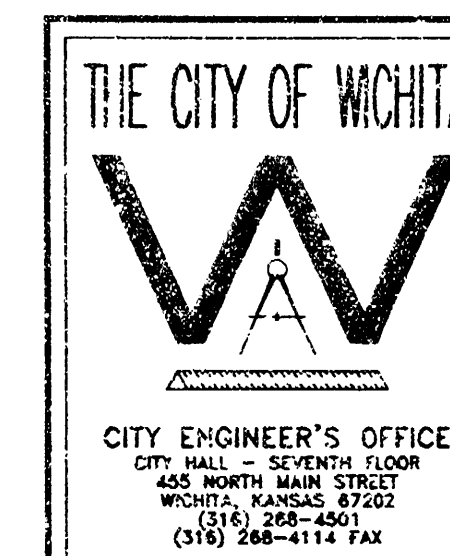
ADOPTED AS STANDARD DESIGN BY
CITY OF WICHITA, KANSAS

GENERAL NOTES

1. MANHOLE CASTINGS SHALL BE MANUFACTURED USING GOOD QUALITY GRAY IRON CONFORMING TO CLASS 30 OF A.S.T.M. DESIGNATION A-43. DIMENSIONS AND HEIGHTS SHOWN ON THE DETAILED DRAWINGS SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS AND ANY DEVIATIONS FROM THE DIMENSIONS SHOULD BE APPROVED BY THE USER. ALL CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE DISTORTIONS OR OTHER DEFECTS.
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4. THE OUTSIDE CIRCUMFERENCE OF THE VERTICAL FACE OF THE COVER AND THE INSIDE CIRCUMFERENCE OF THE VERTICAL FACE IN THE FRAME RECESS SHALL BE MANUFACTURED TO TOLERANCES SUCH THAT THE LEAKAGE BETWEEN THE COVER AND FRAME SHALL BE MINIMAL. THE SEATING SURFACES OF THE CIRCUMFERENCE OF THE COVER AND THE SEATING SURFACES BETWEEN THE COVER AND FRAME SHALL BE MACHINED SUCH THAT THESE SEATING SURFACES SHALL HAVE FULL CONTACTS FOR THEIR FULL CIRCUMFERENCE TO PRECLUDE THE COVER FROM ROCKING IN THE FRAME.
5. THE MANHOLE FRAME AND COVER SHALL BE MARKED WITH LETTERING INDICATING THE NAME OF THE MANUFACTURER AND THE YEAR WHEN THE COVER OR FRAME WAS CAST. PROTECTIVE STAMPS BE FURTHER IDENTIFIED WITH REGARDS TO OWNERSHIP USING LETTERS AT LEAST 1 INCH IN HEIGHT. THIS IDENTIFICATION SHALL BE "CITY OF WICHITA SEWER DEPARTMENT". THE WORD DEPARTMENT MAY BE USED INSTEAD OF SEWER DEPARTMENT. THE SURFACES OF THE COVER AND FRAME SHALL BE CHECKERED PATTERN DESIGN AS INDICATED ON THE DRAWINGS. SMOOTH BLOCKS SHALL BE UTILIZED TO HIGHLIGHT THE LETTERING ON THE COVER SURFACE. THE TOTAL AREA OF SMOOTH SURFACE BLOCKOUT SHALL BE MINIMUM 10% OF THE TOTAL SURFACE AREA OF THE COVER. THE TOTAL AREA OF SMOOTH BLOCKOUTS AND LETTERING MAY VARY FROM THAT SHOWN ON THE DETAILED DRAWING.

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SECTION A-A



JAMES L. ARMOUR, P.E. - ACTING CITY ENGINEER	
PROJECT NUMBER 1513 PPS	OCA NO. (607861)
DATE MAR 96	SHEET CV2.6

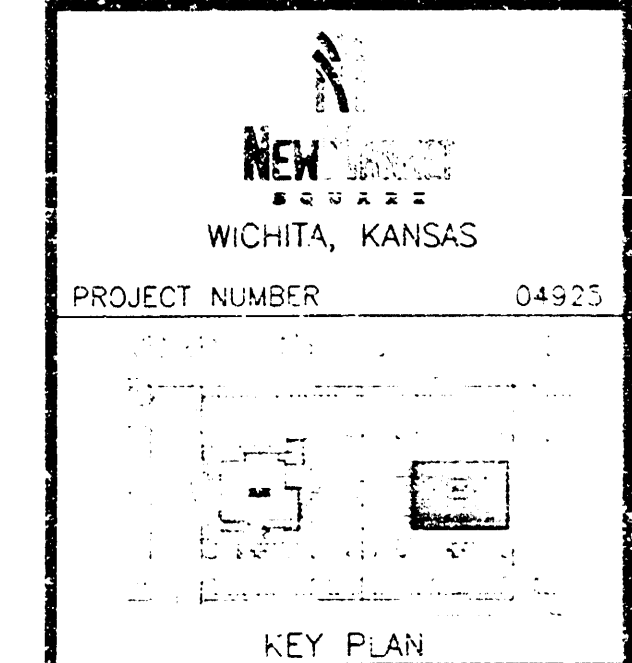
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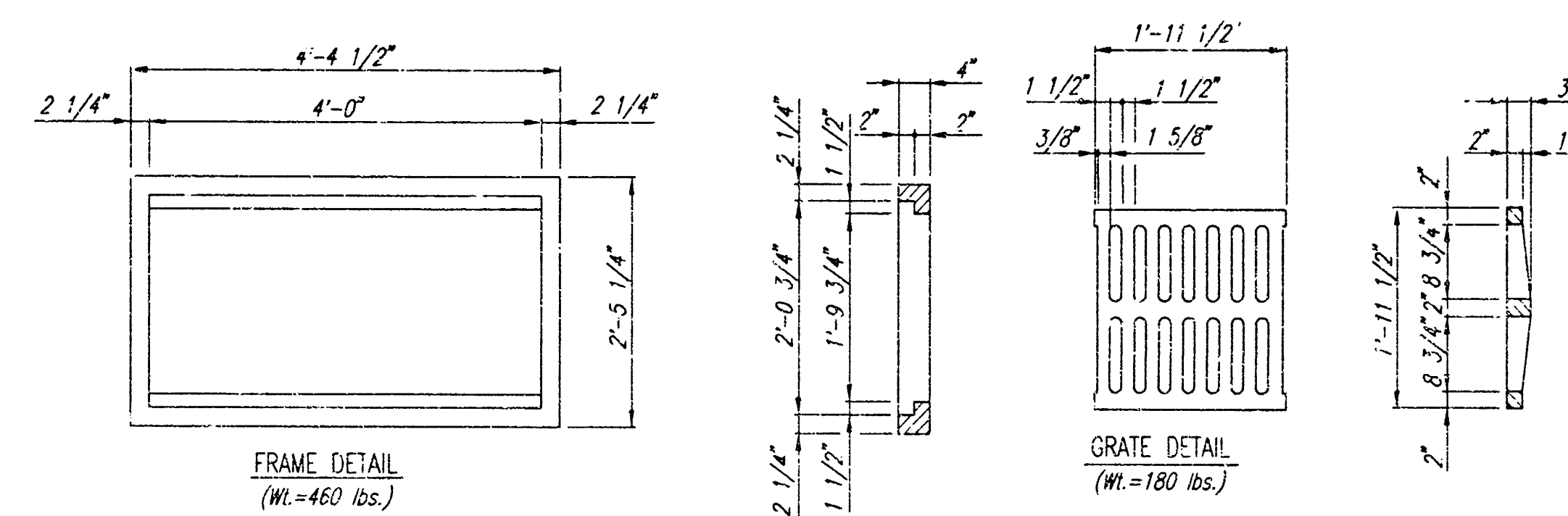
MANHOLE FRAME
AND COVER

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 \\\SENTOUF\2005\05021\SW 02-02-05\05021-CV2.6-Manhole Frame & Cover 02-02-2005 04:15:30 pm

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GENERAL NOTES

CONCRETE SHALL BE C.O.W. STANDARD PAVING MIX. ALL EXPOSED EDGES SHALL BE FINISHED WITH AN APPROVED EDGING TOOL.

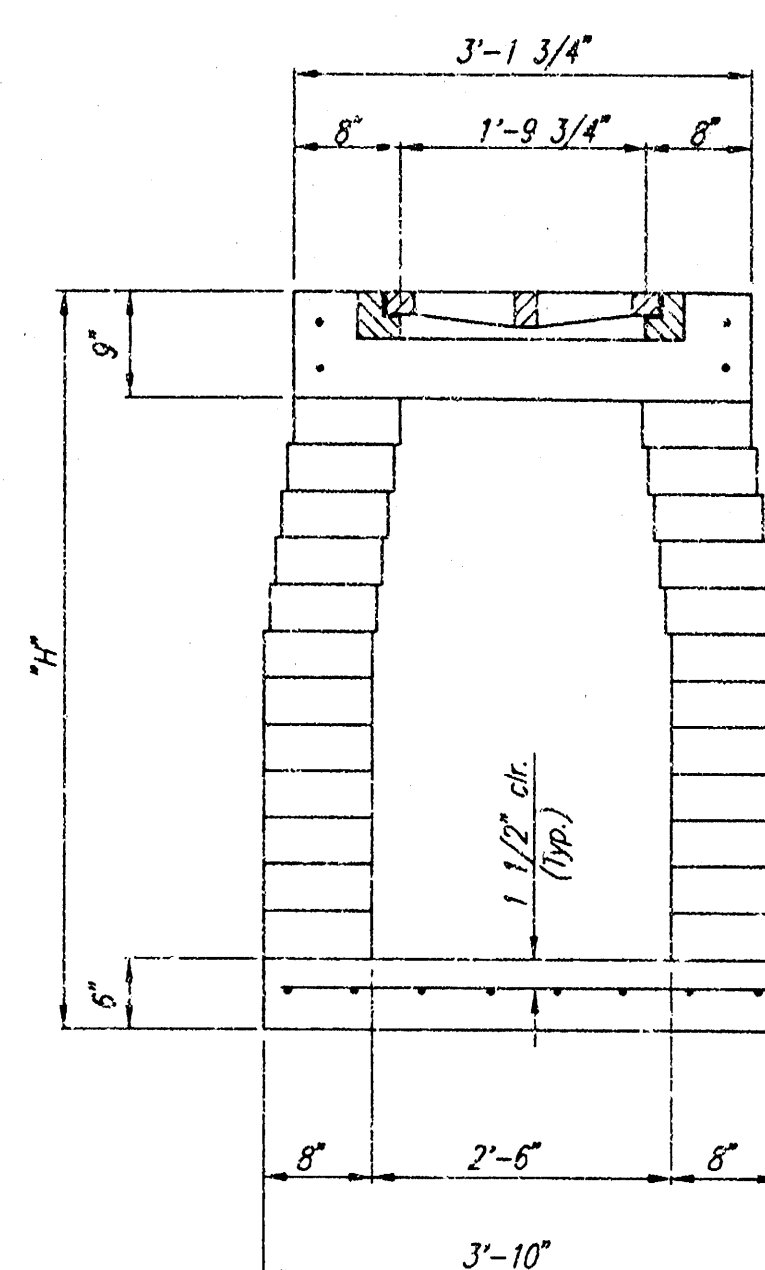
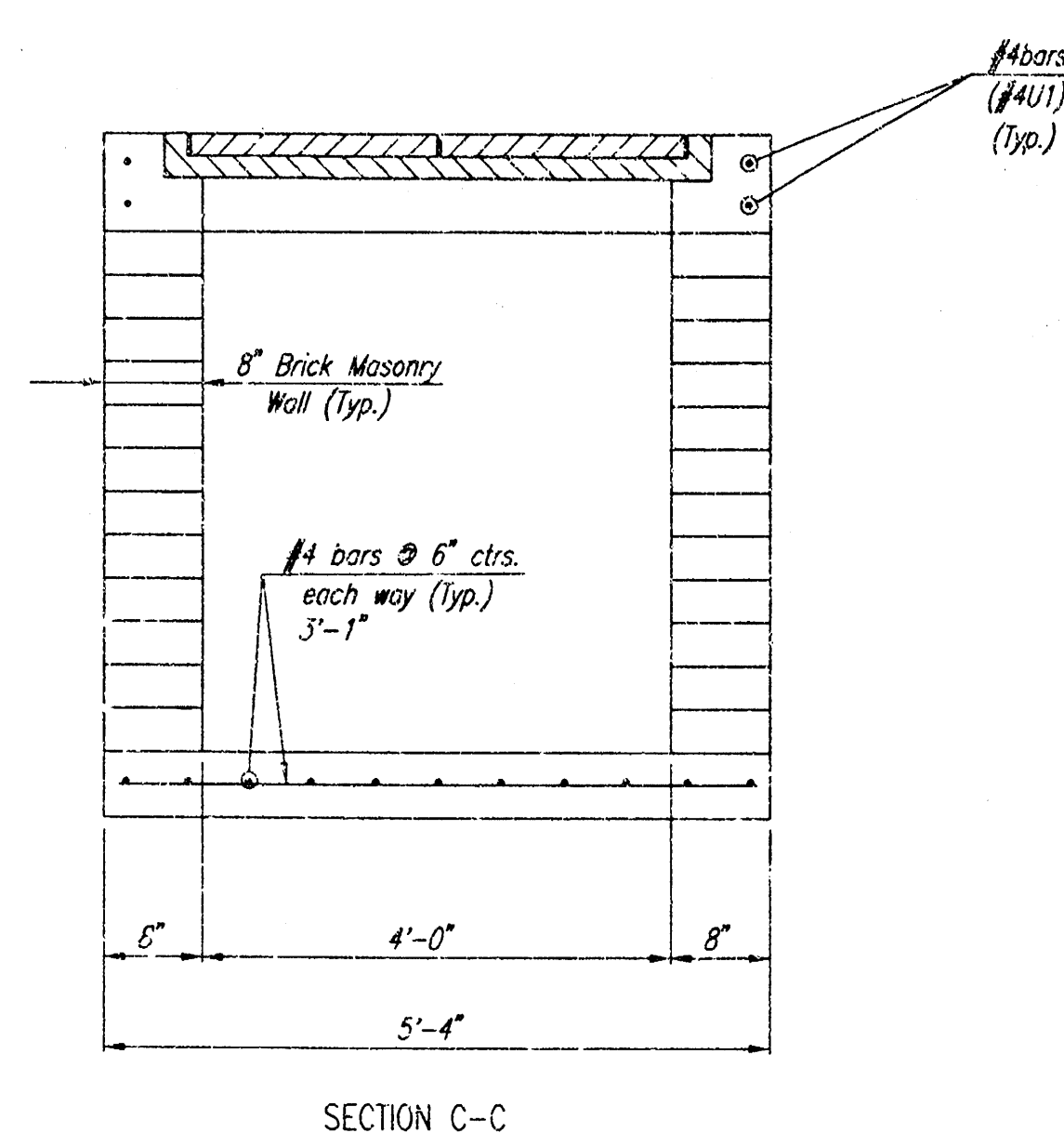
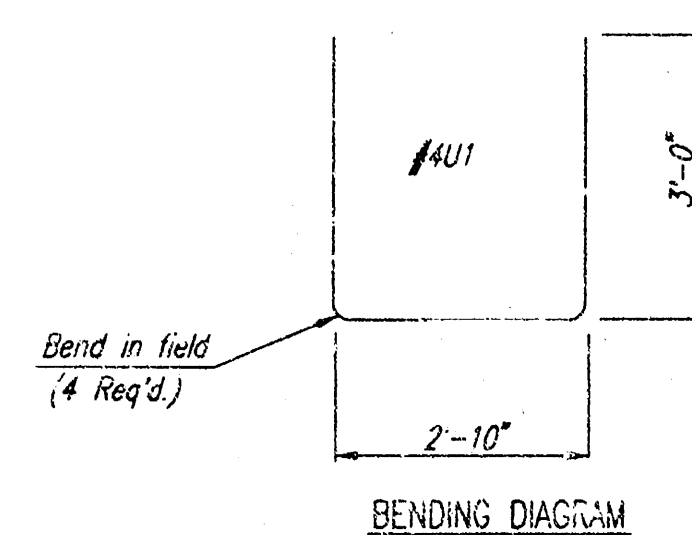
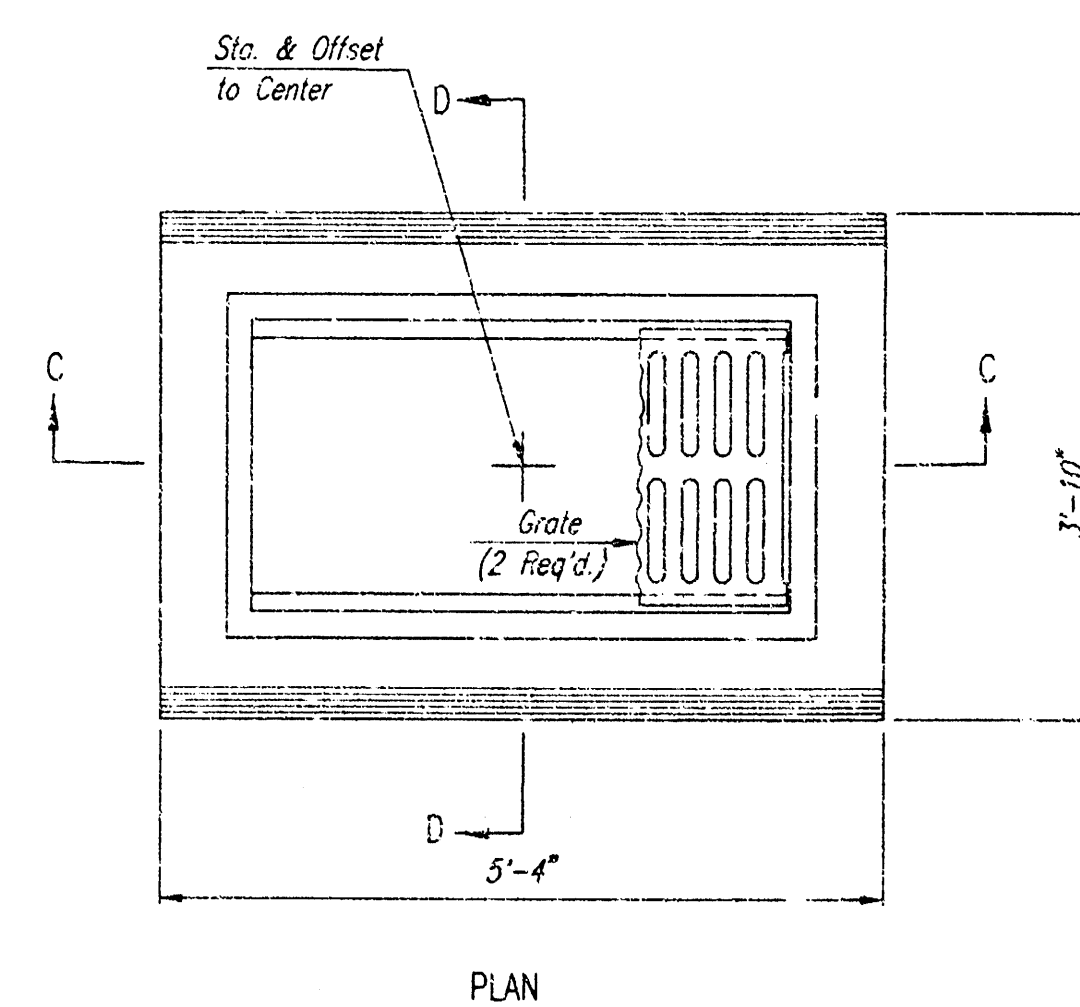
REINFORCING STEEL SHALL BE A MINIMUM GRADE 40, A.S.T.M. A615. ALL DIMENSIONS RELATIVE TO PLACEMENT OF REINFORCING ARE TO THE CENTERLINE OF BARS UNLESS OTHERWISE NOTED.

INLET CASTINGS SHALL BE MANUFACTURED USING GOOD QUALITY GRAY IRON CONFORMING TO CLASS 30 OF A.S.T.M. DESIGNATION A-48. DIMENSIONS AND WEIGHTS SHOWN ON THE DETAILED DRAWINGS SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS AND ANY DEVIATIONS FROM THE DIMENSIONS SHOWN MUST BE SPECIFICALLY APPROVED. THE FINISHED CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE DISTORTIONS OR OTHER DEFECTS.

CONSTRUCTION REQUIREMENTS AND MATERIALS FOR MASONRY WALLS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

INLET FLOOR SHALL BE SHAPED WITH UNREINFORCED CONCRETE (8 SACK SAND MIX) TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF-CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.

AREA INLETS SHALL BE MEASURED AND PAID FOR AT THE CONTRACT UNIT PRICE BID PER EACH. THIS SHALL BE CONSIDERED FULL COMPENSATION FOR ALL EXCAVATION, BACKFILLING, MATERIALS, LABOR, CONNECTION TO EXISTING STRUCTURES (IF REQUIRED), EQUIPMENT, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.



AREA INLET

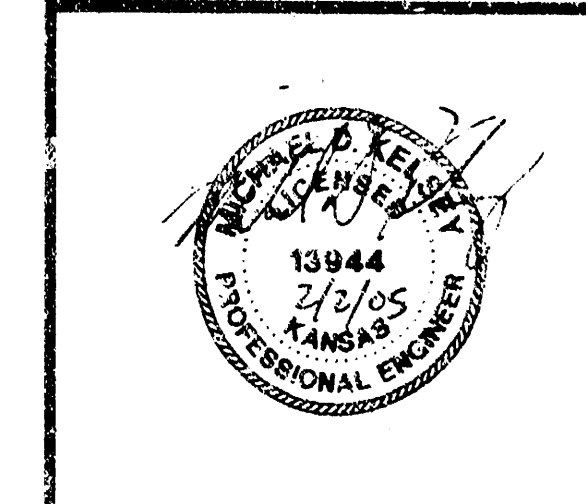
STD. AREA INLET DETAILS

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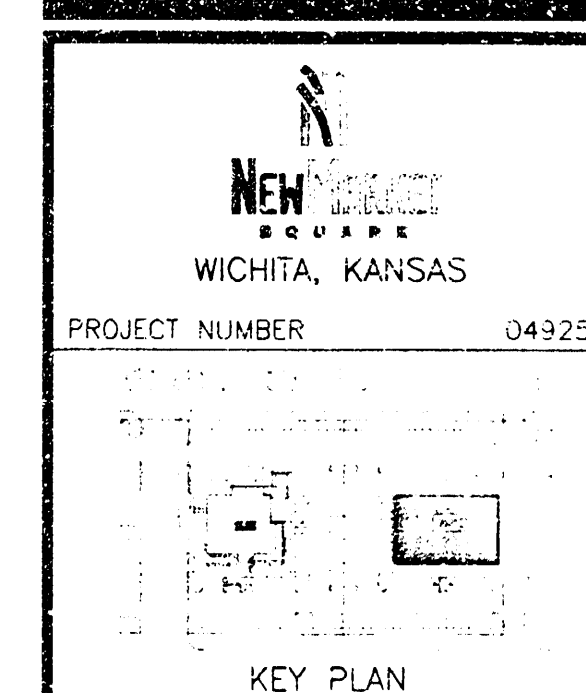
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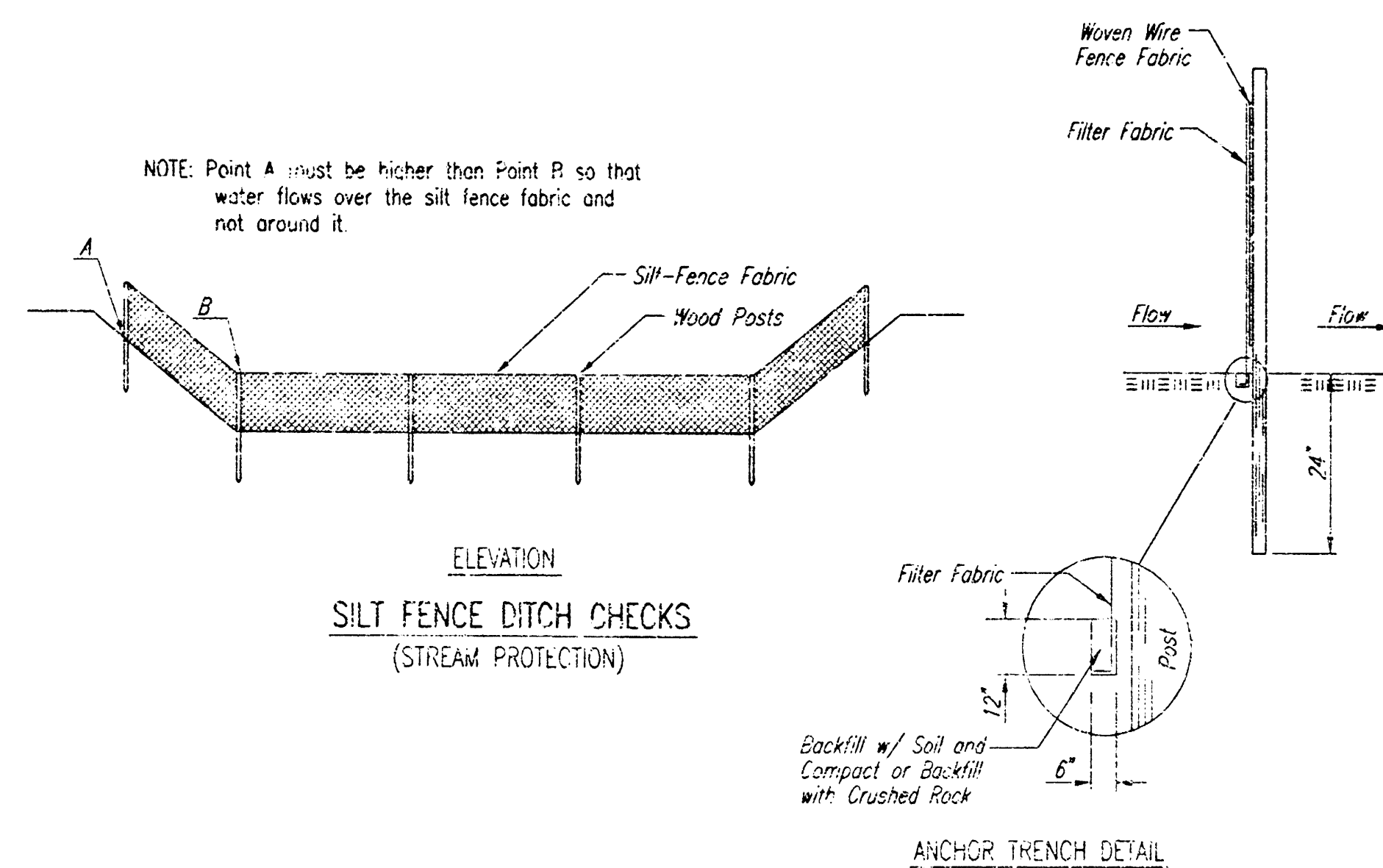
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SHEET TITLE	
BUILDING	SHEET NUMBER
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Does water flow under the silt fence?
Does the silt fence sag excessively?
Has the silt fence torn or become detached from the posts?
Does sediment need to be removed from behind the area inlet barrier?



Water should flow through a slit fence ditch check-not over it. Place slit fence in ditches where it is unlikely that it will be overtopped. Slit fence installations quickly deteriorate when water flows overtop them.

Do not place slit fence posts on the upstream side of the slit fence fabric. In this configuration, the fabric will be pulled away from the posts, and the posts will pull out. For the staples (wire, zip ties, nails, etc.) the slit fence will zip and pull out.

Do not place a slit fence ditch check directly in front of a culvert outlet. It will not stand up to the concentrated flow.

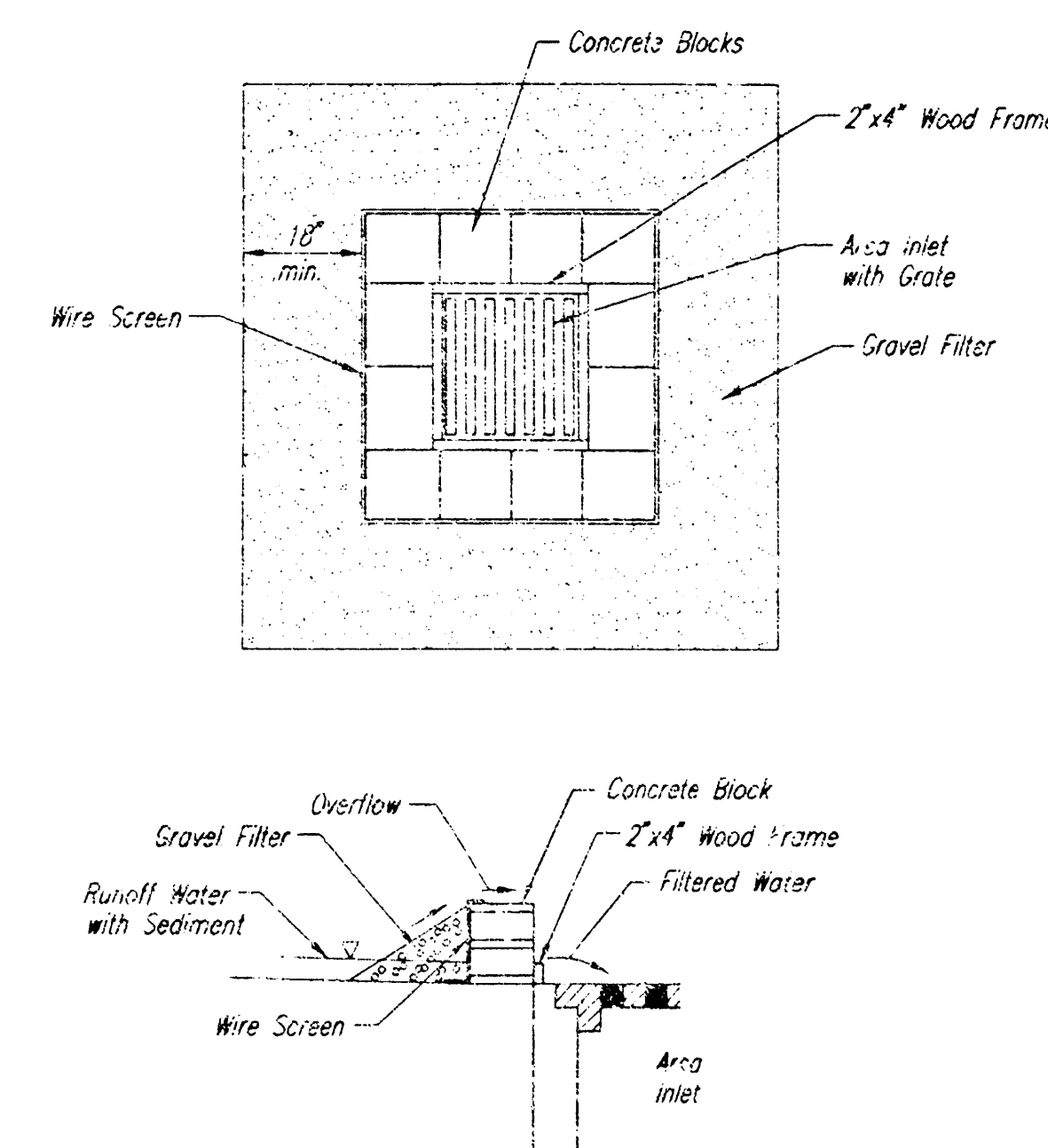
Do not place slit fence ditches under rocks in ditches that will likely experience high flows. They will not stand up to the concentrated flow.

Follow prescribed ditch check spacing guidelines. If spacing guidelines are exceeded, erosion will occur between the ditch checks.

Do not allow water to flow around the ditch check. Make sure that the ditch check is long enough so that the ground level of the ends of the fence is higher than the low point on a slope.

Do not place slit fence ditch checks in channels with shallow soils underlain by rock. If the check is not anchored sufficiently, it will wash out.

- Does water flow around the ditch check?
- Does water flow under the ditch check?
- Does the silt fence sag excessively?
- Has the silt fence torn or become detached from the posts?
- Does sediment need to be removed from behind the ditch check?



thick. Periodically, the gravel should be raked to increase infiltration and filtering of runoff waters. Accumulated sediment is to be removed immediately from road and streets after every runoff event.

 CITY OF WICHITA	SOIL EROSION BMP DETAILS	
	CHRISTOPHER M. GARRER, P.E. STORM WATER ENGINEER	
	PROJECT NUMBER 1513 PPS	O.C. NO. (607861)
	DATE MAY 2001	SHEET BM1.3

OUT PARCEL #3	
SOIL EROSION BMP DETAILS	
SHEET TITLE	
BUILDING	SHEET NUMBER
	BM1.3
OF — SHEETS	



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.

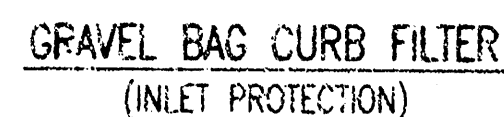
Use of rock with diameters smaller than 1" in the bag may result in clogging of pores and reduce the amount of water flowing into an inlet.

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.



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



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.



NOTES:

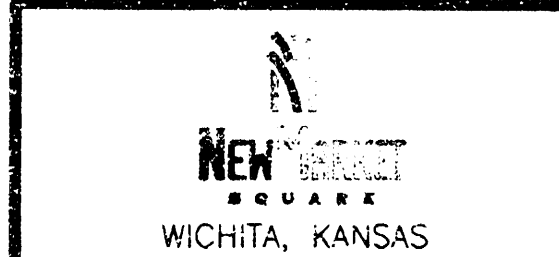
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TOUCHING OR FLOWING OF SEDIMENT INTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANUP OF ANY MEASURES USED TO TRAP SEDIMENT.
 2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE INTO PUBLIC RIGHT-OF-WAY.
 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 WHEN WASHING MAY BE REQUIRED IF STABILIZED ENTRANCE IS NOT SUFFICIENT TO KEEP AND PREVENT SEDIMENT FROM BEING DISCHARGED. ENTRANCE SHALL EXIST FROM BACK OF CURB TO DWELLING.

FOR CONSTRUCTION:

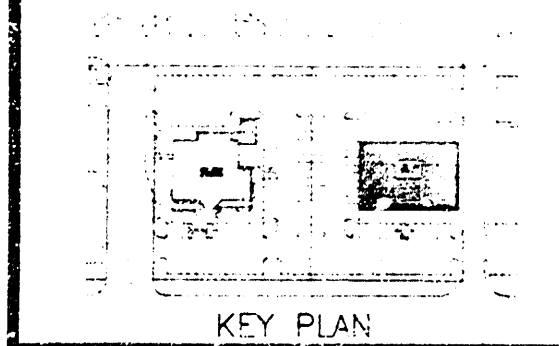
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DRAWN		CHECKED	
DATE			
RELATED DRAWINGS			
SHELL			
DETAILS			
STRUCTURE			
MECHANICAL			
ELECTRICAL			
OTHER			
SEQUENCE NUMBER			
OF _____ SHEETS			



PROJECT NUMBER 04925



OUT PARCEL #3

SOIL EROSION
BMP DETAILS

SHEET TITLE	
BUILDING	SHEET NUMBER

BM1.4