

SLUDGE DRYING & WINDROWING APRON

PROJECT NO.
576-80-245-50400-610-000-000

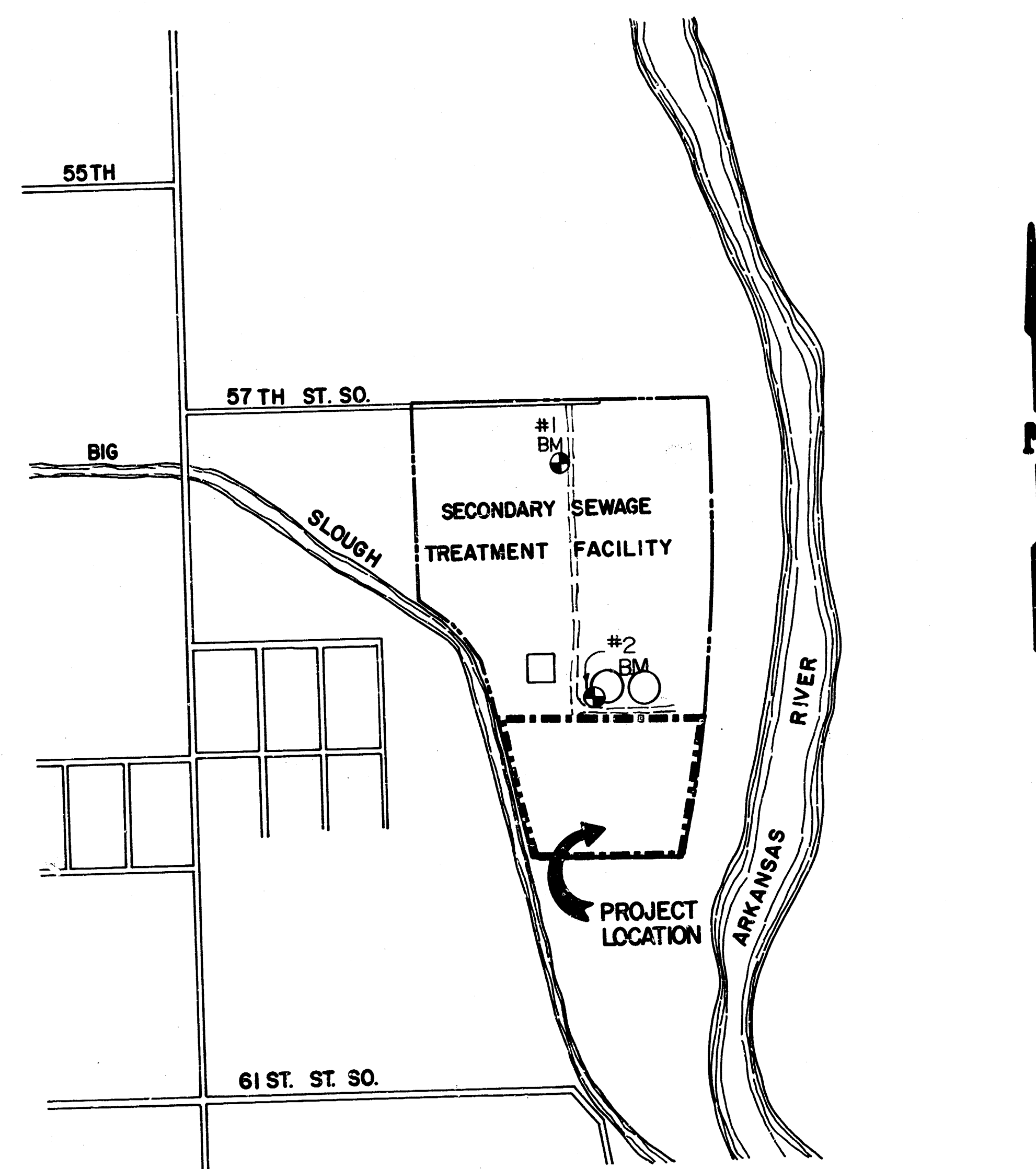
CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK, CITY ENGINEER
JULY, 1985

GENERAL NOTES:

- 1) THE ASPHALTIC CONCRETE PAVEMENT SHALL BE PAID AS SQUARE YARDS OF 6" ASPHALTIC CONCRETE (4" BITUMINOUS BASE AND 2" ASPH. SURF. COURSE.)
- 2) A TACK COAT OF EMULSIFIED ASPHALT (SC-1H OR CSS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.
- 3) BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR LINE AND GRADE.
- 4) CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF ONE (1) FOOT FROM JOINTS IN PRECEDING LIFTS.
- 5) CONTRACTOR TO BID ONLY ONE SUBGRADE TREATMENT ALTERNATE WHEN ALTERNATES ARE PROVIDED IN THE PROPOSAL AND CONTRACT. THE ALTERNATE CHOSEN BY THE SUCCESSFUL BIDDER SHALL BE USED IN CONSTRUCTING THIS PROJECT.
- 6) CONCRETE SHALL CONFORM TO THE CITY OF WICHITA STANDARD SPECIFICATIONS FOR CONCRETE PAVEMENT. ALL EXPOSED EDGES OF INLET TOPS SHALL BE FINISHED WITH AN APPROVED EDGING TOOL.
- 7) REINFORCING STEEL SHALL BE AS SPECIFIED BY THE CITY OF WICHITA STANDARD SPECIFICATIONS FOR CONCRETE PAVEMENT.
- 8) COMPACTED FILL AND SUBGRADE PREPARATION SHALL BE AS SPECIFIED BY THE CITY OF WICHITA STANDARD SPECIFICATIONS FOR ASPHALT PAVEMENT.

BENCH MARKS:

- BM #1 "□" CUT ON NORTHEAST CORNER 8'x10' CONCRETE, K&E BOX AT SOUTH-WEST CORNER OF PLANT ENTRANCE.
- BM #2 "□" CUT ON SOUTH END OF CLARIFIER LEFT OF BASE LINE 800 FEET EAST. ELEV. = 82.785

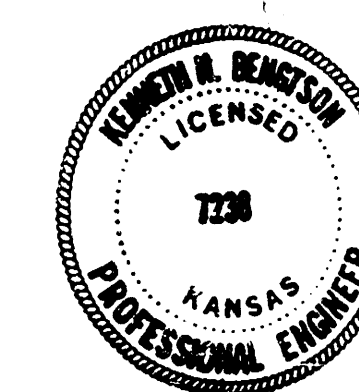


INDEX TO DRAWINGS

1. TITLE SHEET
2. EXISTING TOPOGRAPHY
3. PROPOSED IMPROVEMENTS
4. PAVING, CONC. SWALE & WLT WELL DETAILS/
BORING LOGS 1-4
- 5-6 X-SECTIONS

PLANS PREPARED BY

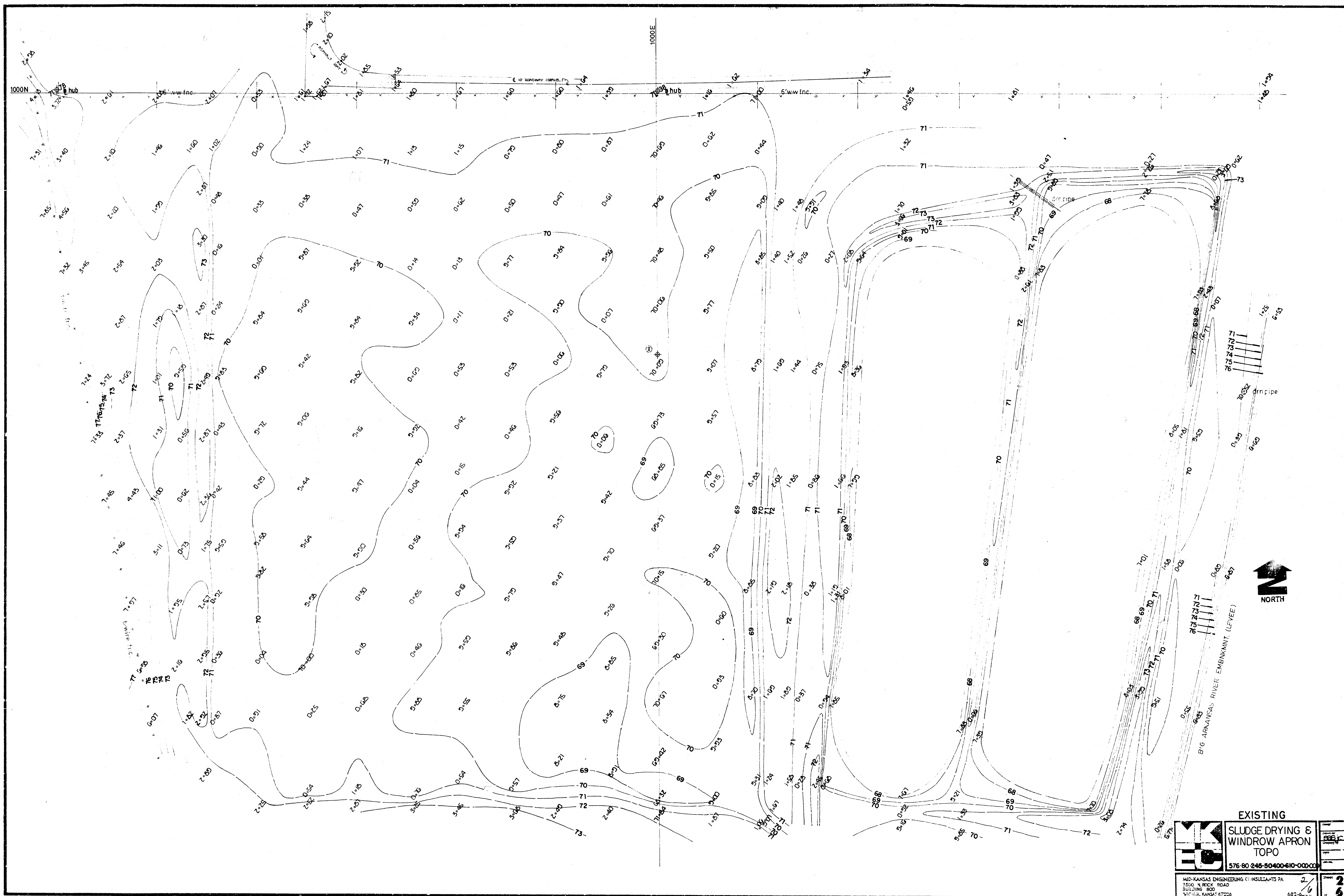
MID-KANSAS ENGINEERING CONSULTANTS, P.A.
WICHITA, KANSAS



SHEET 3 REVISED NOV. 1, 1985

	CITY OF WICHITA, KANSAS SLUDGE DRYING & WINDROWING APRON PROJECT NO. 576-80-245-50400-610-000-000	Design
	TITLE SHEET	Drawn by
		Checked by
		Date
MID-KANSAS ENGINEERING CONSULTANTS PA 3500 NORTH ROCK ROAD BUILDING #800 WICHITA, KANSAS 67226		Job no.
682-6561		Sheet 1 of 6

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Hub
1. 30' No. E/W Fenceline
2. 22.5' E/W Fenceline

Remove & Replace
Exist. Woven Wire
Gate.

Saw, Remove, Replace w/ 6" AC PVMT. & Match (Approx. 180 S.Y.)

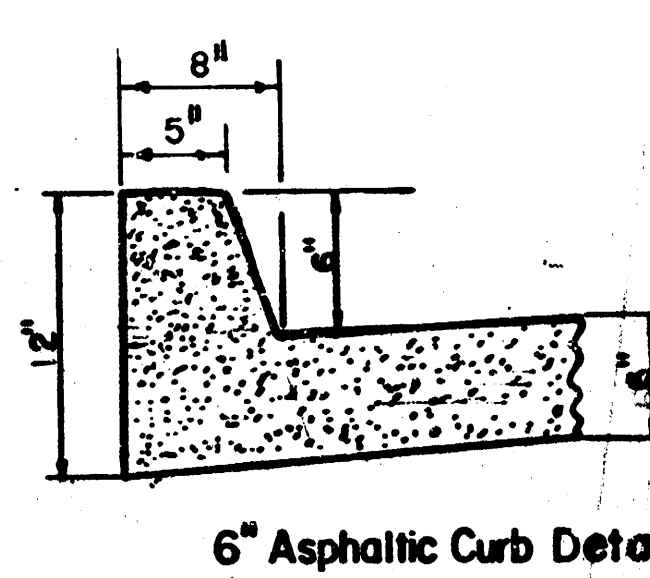
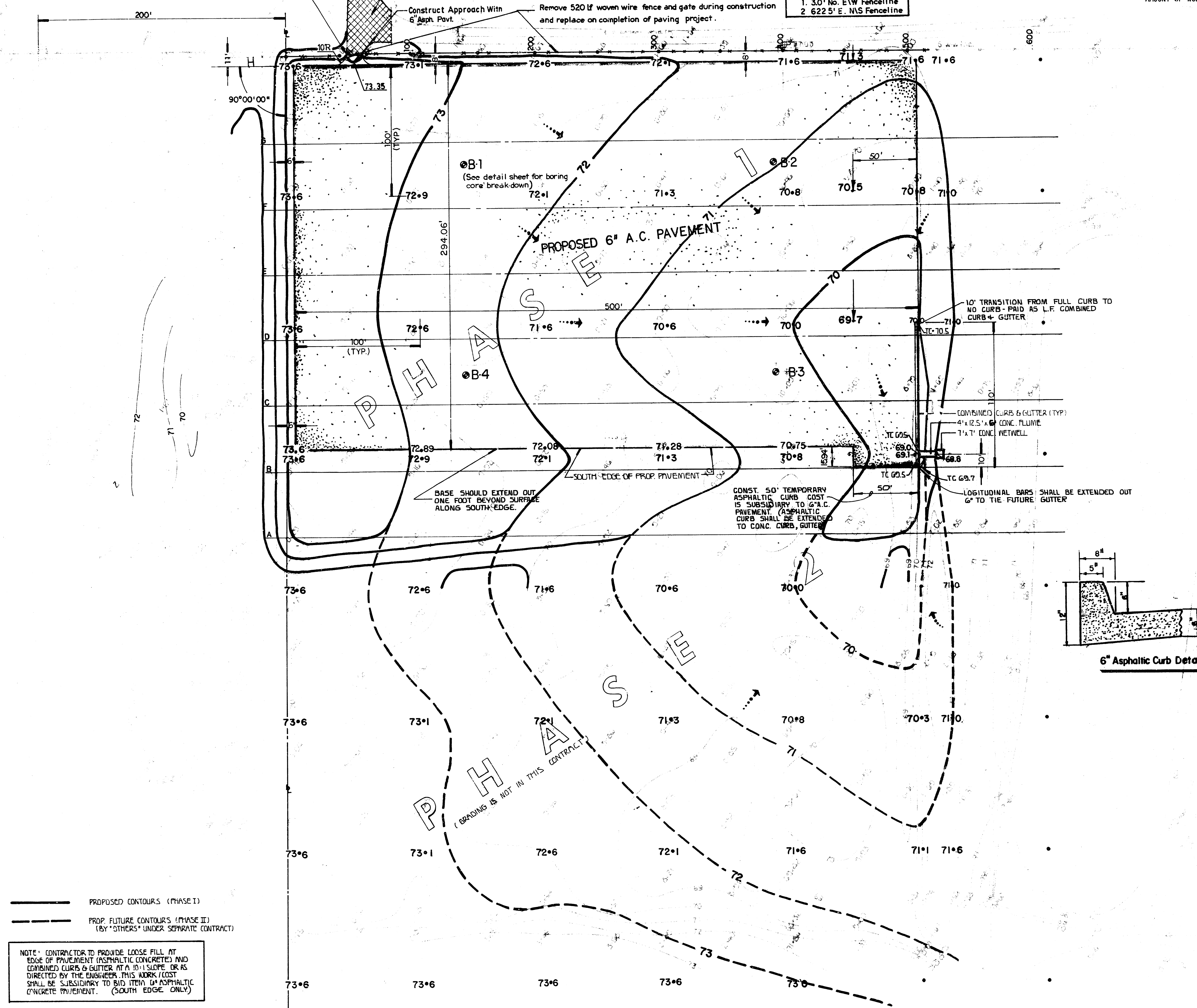
Construct Approach With
6" Asphalt Pavt.

Remove 520' of woven wire fence and gate during construction
and replace on completion of paving project.

Hub
1. 30' No. E/W Fenceline
2. 22.5' E/W Fenceline

NOTE: MATERIAL NECESSARY TO CONSTRUCT FILL AS INDICATED BY CROSS-SECTIONS
TO FACILITATE ASPHALT PAVEMENT CONSTRUCTION HAS BEEN STOCKPILED AT
PROJECT SITE. CONTRACTOR WILL BE REQUIRED TO USE THE STOCKPILED
MATERIAL TO CONSTRUCT NECESSARY FILLS. COST FOR MOVING & PLACING
SUCH MATERIAL SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR PHASE I
SITE WORK. CONTRACTOR SHOULD INSPECT PROJECT SITE TO ASCERTAIN THE
AMOUNT OF WORK INVOLVED.

	EXCAVATION	COMPACTED FILL
+10%	9556.30 C.Y.	5703.40 C.Y.
	955.63	570.34
TOTAL:	10511.93 C.Y.	6273.74 C.Y.
		MANIPULATION: 17576.30 S.Y.



— PROPOSED CONTOURS (PHASE I)
- - - PROPOSED FUTURE CONTOURS (PHASE II)
(BY OTHERS UNDER SEPARATE CONTRACT)

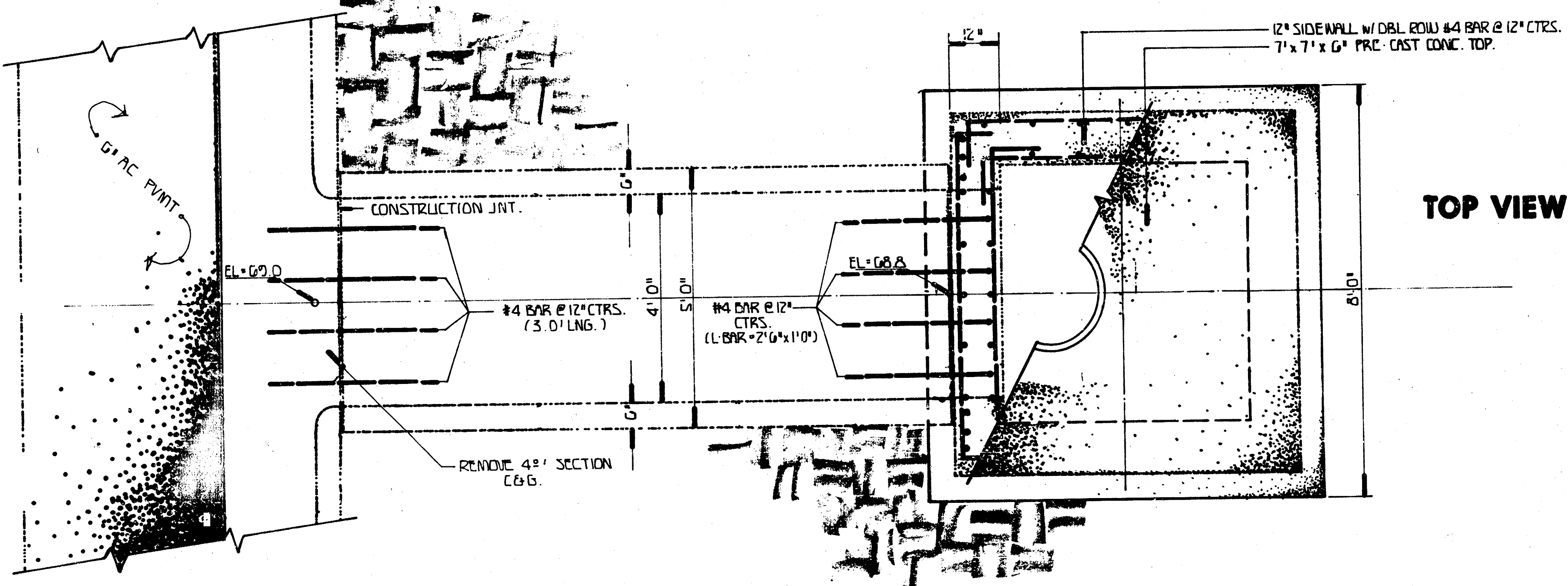
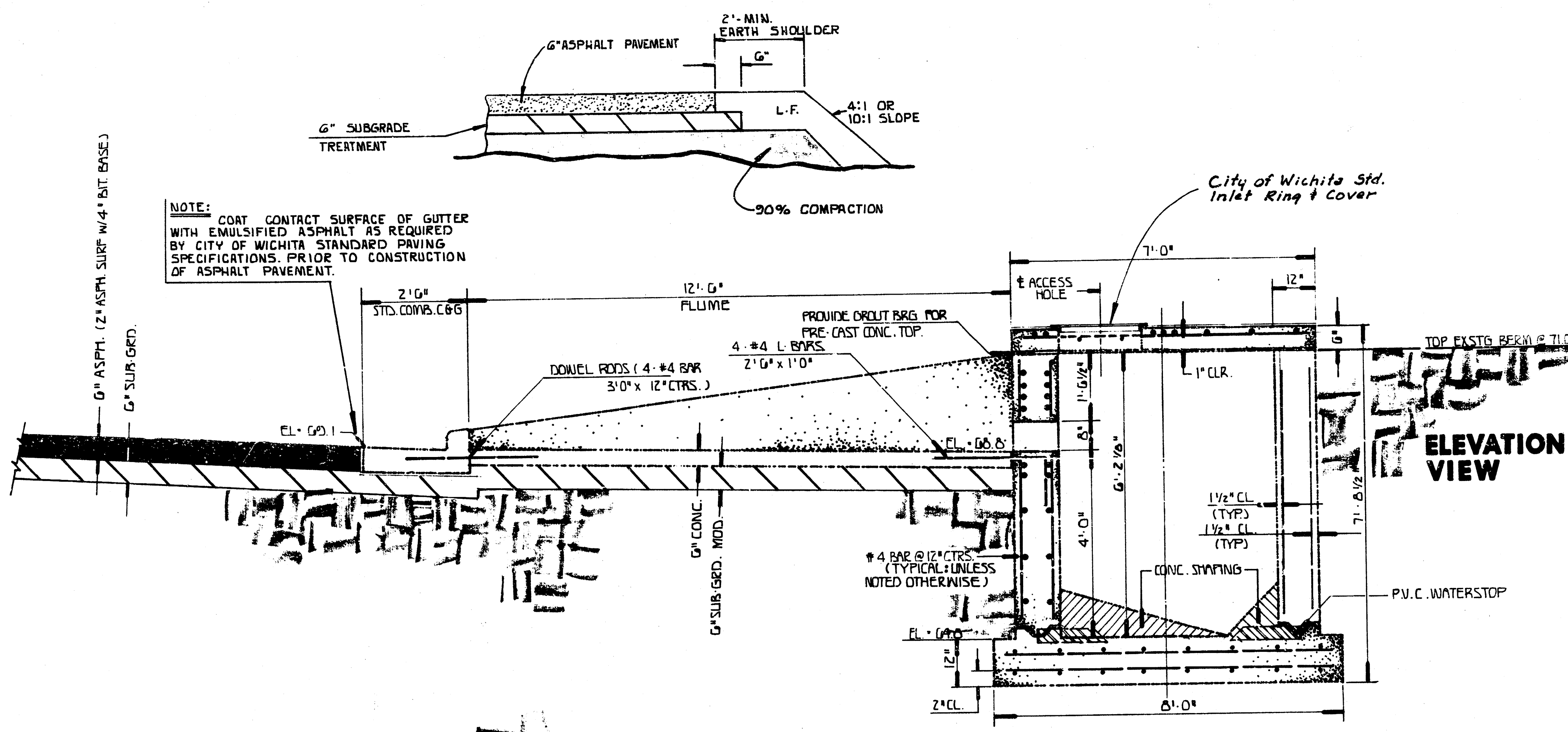
NOTE: CONTRACTOR TO PROVIDE LOOSE FILL AT
EDGE OF PAVEMENT (ASPHALTIC CONCRETE) AND
COMBINED CURBS & GUTTER AT A 10:1 SLOPE OR AS
DIRECTED BY THE ENGINEER. THIS WORK/COST
SHALL BE SUBSIDIARY TO BID ITEM OF ASPHALTIC
CONCRETE PAVEMENT. (SOUTH EDGE ONLY)

REVISED NOV. 1, 1985

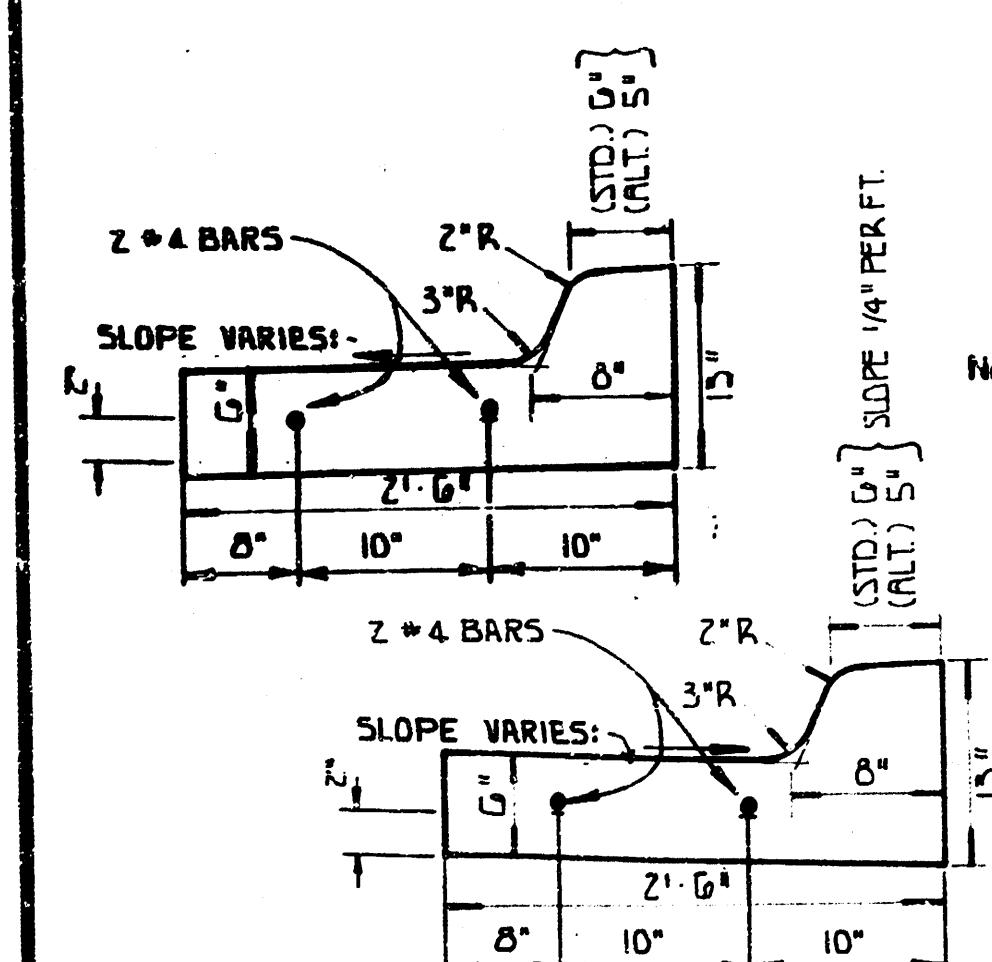
PROPOSED REGRADING

	SLUDGE DRYING & WINDROW APRON TOPO	
	376-80-245-50400-610-000-000	
	MID-KANSAS ENGINEERING CONSULTANTS PA 3300 N. ROCK ROAD BURLINGAME, MO MO-KAN 64225	

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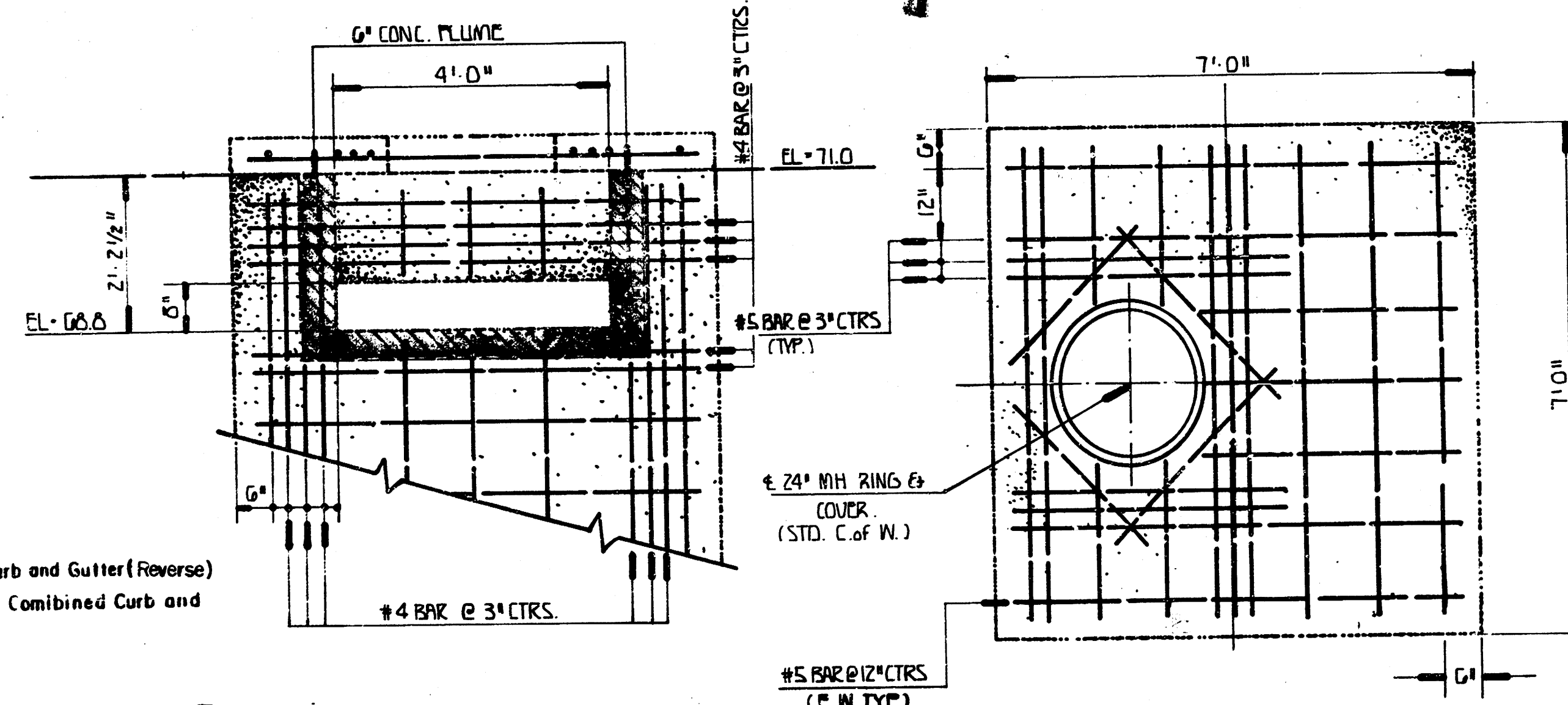
8" INLET DETAIL



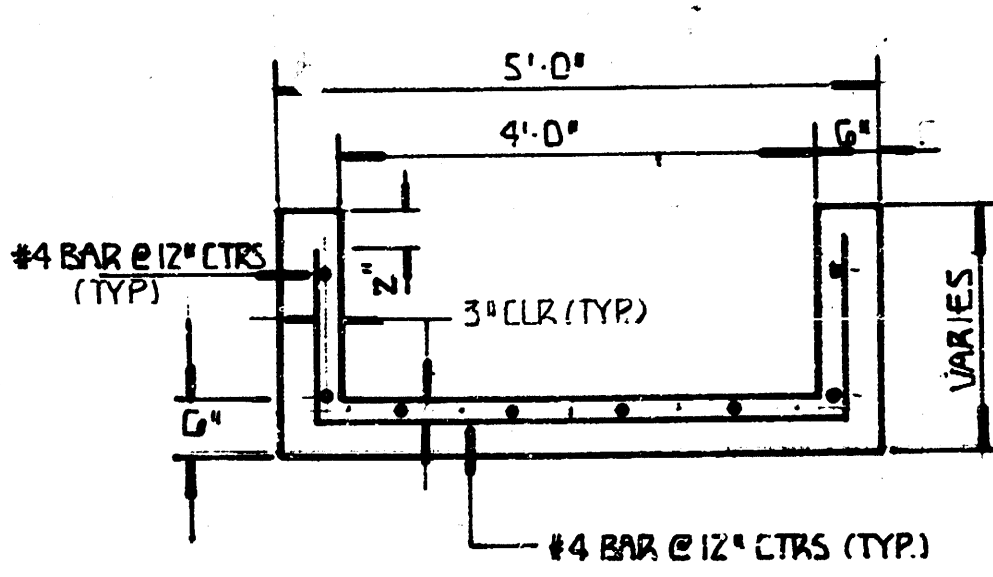
Note:
Combined Curb and Gutter (Reverse)
Paid as L.F. Combined Curb and
Gutter.

**STD. COMB. CURB
& GUTTER**

6" PRECAST TOP



**TYPICAL FLUME
SECTION**



WICHITA TESTING LABORATORIES		PROJECT	
300 EAST WASHINGTON ST. WICHITA, KANSAS 67202		Proposed Sludge Drying and Window Apron 57th Street South Wichita, Kansas	
BORING LOG		Standard Penetration Test	Boring No. B-1
Boring Method: 3-in. continuous flight auger		30-in. Fall [30-in. Fall]	Sheet 1 of 1
Undersized Soil Sampler: 30-in. 100-ml. 100-ml. 100-ml. 100-ml.		30-in. Fall [30-in. Fall]	Sheet 1 of 1
Moisture Content, %		Penetration Resistance: No blow per foot	Date: 6/28/85
Elevation	Depth	Description of Materials	Remarks
71.0	0	Fill: Silty Sand; black mottled with light grayish-brown; 5-15% low plastic fines; fine sand; moist; medium dense.	Dry hole immediately after drilling.
70.0	1	Fill: Silty Sand; black mottled with light grayish-brown; 5-15% low plastic fines; fine sand; moist; medium dense.	
69.0	2	Fill: Silty Sand; black mottled with light grayish-brown; 5-15% low plastic fines; fine sand; moist; medium dense.	
68.0	3	Fill: Silty Sand; black mottled with light grayish-brown; 5-15% low plastic fines; fine sand; moist; medium dense.	
67.0	4	Fill: Silty Sand; black mottled with light grayish-brown; 5-15% low plastic fines; fine sand; moist; medium dense.	
66.0	5	Fill: Silty Sand; black mottled with light grayish-brown; 5-15% low plastic fines; fine sand; moist; medium dense.	
65.0	6	Fill: Silty Sand; black mottled with light grayish-brown; 5-15% low plastic fines; fine sand; moist; medium dense.	

Figure 2 Drilled by: Ken Tompkins

WICHITA TESTING LABORATORIES		PROJECT	
300 EAST WASHINGTON ST. WICHITA, KANSAS 67202		Proposed Sludge Drying and Window Apron 57th Street South Wichita, Kansas	
BORING LOG		Standard Penetration Test	Boring No. B-2
Boring Method: 3-in. continuous flight auger		30-in. Fall [30-in. Fall]	Sheet 1 of 1
Undersized Soil Sampler: 30-in. 100-ml. 100-ml. 100-ml. 100-ml.		30-in. Fall [30-in. Fall]	Sheet 1 of 1
Moisture Content, %		Penetration Resistance: No blow per foot	Date: 6/28/85
Elevation	Depth	Description of Materials	Remarks
70.7	0	Fill: Silty Sand; black mottled with light grayish-brown; 5-15% low plastic fines; fine sand; moist; medium dense.	Dry hole immediately after drilling.
69.2	1.5	Fill: Silty Sand; black mottled with light grayish-brown; 5-15% low plastic fines; fine sand; moist; medium dense.	
68.2	2.5	Fill: Silty Sand; black mottled with light grayish-brown; 5-15% low plastic fines; fine sand; moist; medium dense.	
67.2	3.5	Fill: Silty Sand; black mottled with light grayish-brown; 5-15% low plastic fines; fine sand; moist; medium dense.	
66.2	4.5	Fill: Silty Sand; black mottled with light grayish-brown; 5-15% low plastic fines; fine sand; moist; medium dense.	
65.2	5.5	Fill: Silty Sand; black mottled with light grayish-brown; 5-15% low plastic fines; fine sand; moist; medium dense.	

Figure 3 Drilled by: Ken Tompkins

WICHITA TESTING LABORATORIES		PROJECT	
300 EAST WASHINGTON ST. WICHITA, KANSAS 67202		Proposed Sludge Drying and Window Apron 57th Street South Wichita, Kansas	
BORING LOG		Standard Penetration Test	Boring No. B-3
Boring Method: 3-in. continuous flight auger		30-in. Fall [30-in. Fall]	Sheet 1 of 1
Undersized Soil Sampler: 30-in. 100-ml. 100-ml. 100-ml. 100-ml.		30-in. Fall [30-in. Fall]	Sheet 1 of 1
Moisture Content, %		Penetration Resistance: No blow per foot	Date: 6/28/85
Elevation	Depth	Description of Materials	Remarks
70.1	0	Fill: Silty Sand; black mottled with light grayish-brown; 5-15% low plastic fines; fine sand; moist; medium dense.	Dry hole immediately after drilling.
68.6	1.5	Fill: Silty Sand; black mottled with light grayish-brown; 5-15% low plastic fines; fine sand; moist; medium dense.	
67.6	2.5	Fill: Silty Sand; black mottled with light grayish-brown; 5-15% low plastic fines; fine sand; moist; medium dense.	
66.6	3.5	Fill: Silty Sand; black mottled with light grayish-brown; 5-15% low plastic fines; fine sand; moist; medium dense.	
65.6	4.5	Fill: Silty Sand; black mottled with light grayish-brown; 5-15% low plastic fines; fine sand; moist; medium dense.	
64.6	5.5	Fill: Silty Sand; black mottled with light grayish-brown; 5-15% low plastic fines; fine sand; moist; medium dense.	

Figure 4 Drilled by: Ken Tompkins

WICHITA TESTING LABORATORIES		PROJECT	
300 EAST WASHINGTON ST. WICHITA, KANSAS 67202		Proposed Sludge Drying and Window Apron 57th Street South Wichita, Kansas	
BORING LOG		Standard Penetration Test	Boring No. B-4
Boring Method: 3-in. continuous flight auger		30-in. Fall [30-in. Fall]	Sheet 1 of 1
Undersized Soil Sampler: 30-in. 100-ml. 100-ml. 100-ml. 100-ml.		30-in. Fall [30-in. Fall]	Sheet 1 of 1
Moisture Content, %		Penetration Resistance: No blow per foot	Date: 6/28/85
Elevation	Depth	Description of Materials	Remarks
69.9	0	Fill: Silty Sand; black mottled with light grayish-brown; 5-15% low plastic fines; fine sand; moist; medium dense.	Dry hole immediately after drilling.
68.9	1	Fill: Silty Sand; black mottled with light grayish-brown; 5-15% low plastic fines; fine sand; moist; medium dense.	
67.4	1.5	Fill: Silty Sand; black mottled with light grayish-brown; 5-15% low plastic fines; fine sand; moist; medium dense.	
66.4	2.5	Fill: Silty Sand; black mottled with light grayish-brown; 5-15% low plastic fines; fine sand; moist; medium dense.	
65.4	3.5	Fill: Silty Sand; black mottled with light grayish-brown; 5-15% low plastic fines; fine sand; moist; medium dense.	
64.4	4.5	Fill: Silty Sand; black mottled with light grayish-brown; 5-15% low plastic fines; fine sand; moist; medium dense.	

Figure 5 Drilled by: Ken Tompkins

PAVEMENT SECTION & WETWELL DETAILS

DETAIL SHEET

Design: *[Signature]*

Drawn by: *[Signature]*

Checked by: *[Signature]*

Date: *[Signature]*

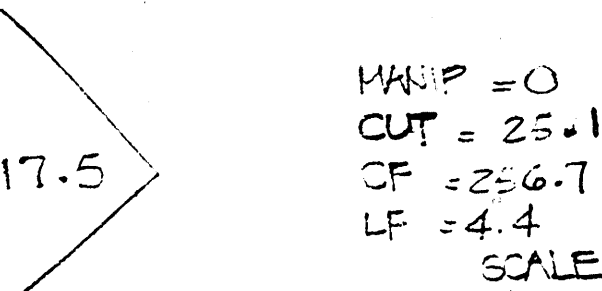
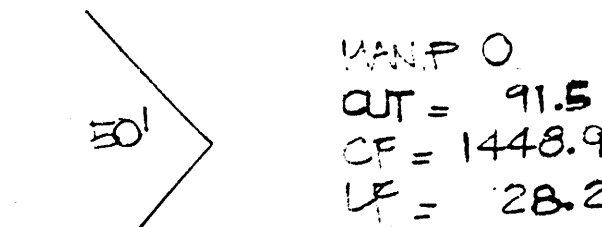
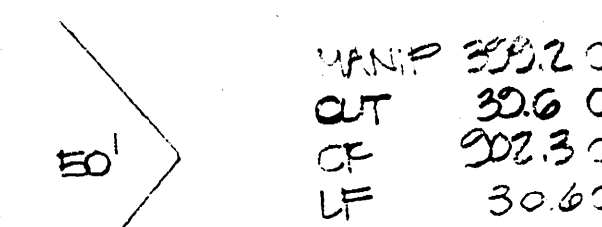
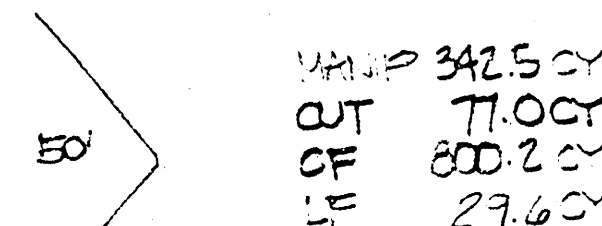
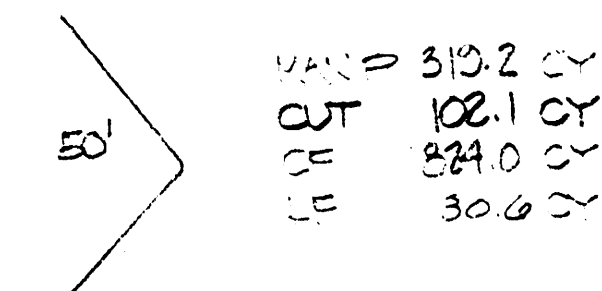
Sheet 4 of 6

MID-KANSAS ENGINEERING CONSULTANTS PA
3500 NORTH ROCK ROAD
BUILDING 1800
WICHITA, KANSAS 67226

682-6561

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75



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Excavation
{(112)(1944.4+5703.4)+2093-
0.8(548.3)} = 9008.02 CY

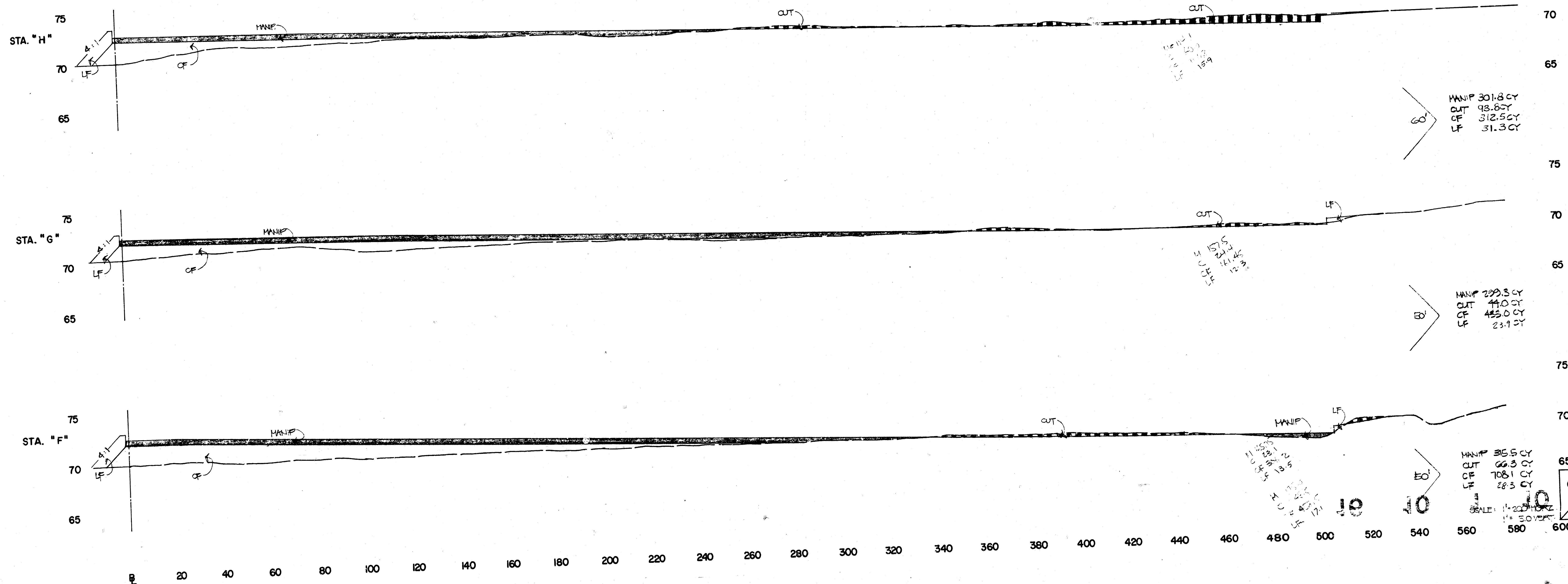
GRAND TOTALS:
MANIP = 1944.4 CY
CUT = 548.3 CY
CF = 5703.4 CY
LF = 209.3 CY

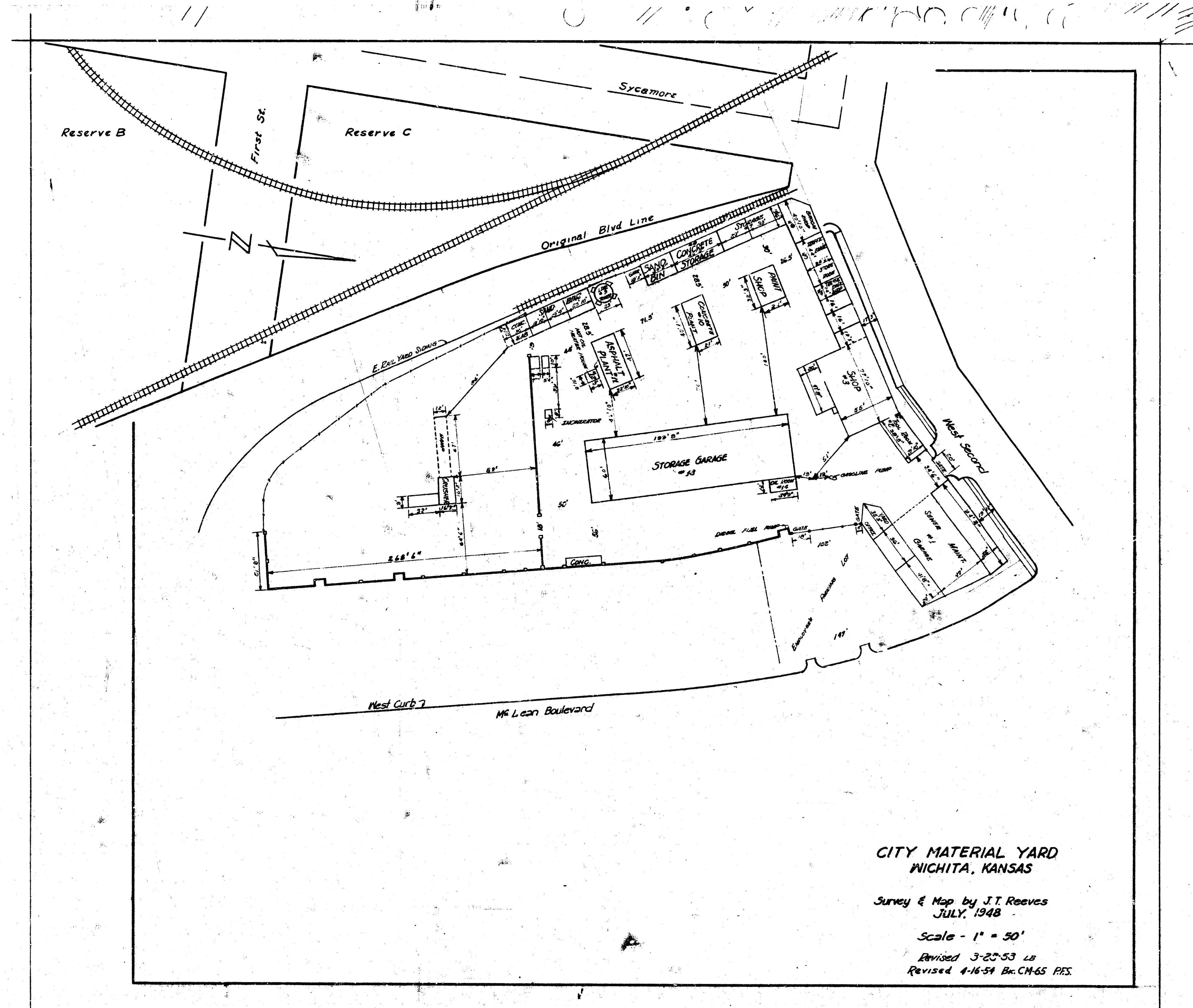
From Sta. H to existing existing Ground

MF=0
CF=0
CF=0
LF=0

8
MANIP = 16.9 CY
CUT = 8.9 CY
CF = 17.7 CY
LF = 2.4 CY

SHEET TOTALS:
MANIP 923.5 CY
CUT 213.0 CY
CF 1471.3 CY
LF 83.9 CY





CITY MATERIAL YARD
WICHITA, KANSAS
Survey & Map by J.T. Reeves
JULY, 1948
Scale - 1" = 50'
Revised 3-25-53 LRS
Revised 4-16-54 B.C.M. 65 P.E.S.