Private Street Improvements For

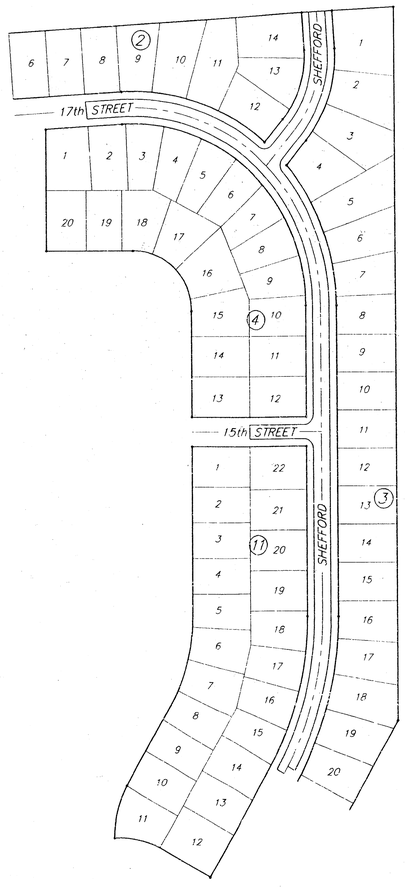
ECHO HILLS

Private Project No.

073PPP (607879)

WICHITA, KANSAS

Michael E. Lindebak City Engineer



SCALE:
1" = 150'
• = IRON

Sheet Index

1. COVER SHEET
2. 35' PAVEMENT DETAIL
3. 29' PAVEMENT DETAIL
4. VALLEY GUTTER DETAIL
5. SHEFFORD
6. SHEFFORD
7. 17TH STREET
8. 15TH STREET
9. SHEFFORD
10–12. EARTHWORK
13. SUBDIVISION PLAT

General Notes

1. Utility service lines, poles, valve boxes, meters, and etcetera 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. The contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.

2. A saw cut of at least one-half the depth of existing surface courses or one-fourth the depth of the existing total pavement thickness shall be provided at locations where proposed construction abuts an existing surface course or pavement for which partial removal of that surface or pavement is required. Sawed joint to facilitate removal within three (3) feet of existing joints will not be permitted and for such instances the limits of removal shall extend to the existing joint. Such saw is will not be paid for directly and this cost sha + considered as subsidiary to the removal of the surface or pavement.

3. 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.

4. All earthwork for this project shall be considered incidental to the bid item for asphalt pavement.

5. This project does not include any provisions forconstruction of driveways.

6. Trees and shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed by the Contractor with the Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage. Cost for any tree removal and/or grubbing shall be considered incidental to the site preparation bid item.

7. The Contractor shall be responsible for preserving property irons. The Contractor will be required to re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor in accordance with state laws.

8. The Contractor shall give all property owners and/or tenants of developed property abutting the project limits a minimum of ten (10) days advance notice prior to start of construction.

9. Traffic will not be affected by construction on this project.



APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

Sanitary Sewers _____

Storm Sewers _____

Driveway Approaches _____

Water Mains _____

Paving VRH 10/5/92

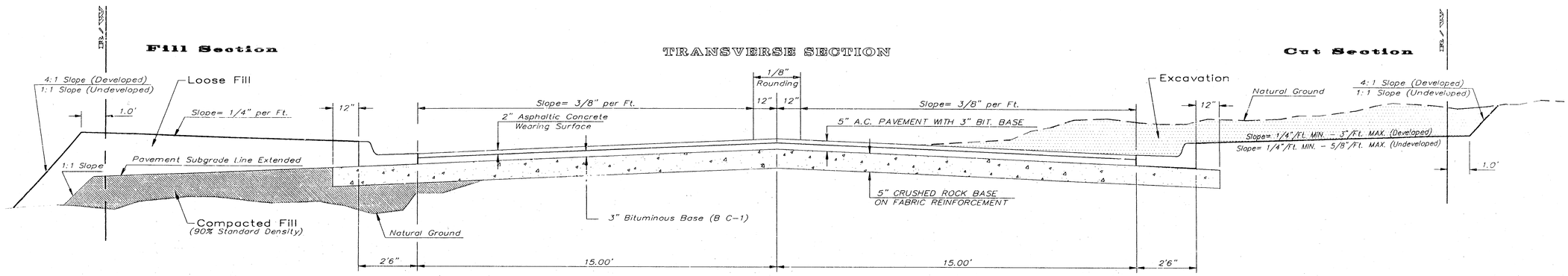
NOTE TO CONTRACTORS

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.

AS BUILT 5-17-93

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

TYPICAL 35' B-B PAVEMENT DETAILS

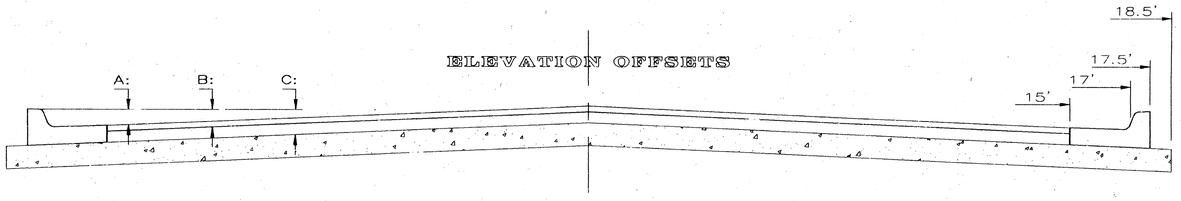


The crushed rock shall have the following gradation:

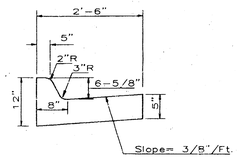
	% Retained
2-1/2"	0
3/4"	20 to 60
#4	50 to 80
#40	80 to 94
#200	90 to 98

Rock quality shall conform to the requirements specified by the KDOT 1990 Edition Standard Specification Subsection 1102 for durability Class 1.

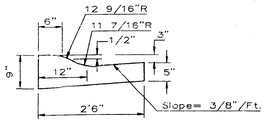
ELEVATION OFFSETS



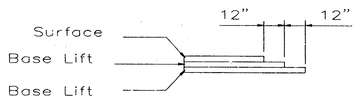
	DISTANCE FROM CENTERLINE (LT. & RT.)											
	0'	2'	4'	6'	8.5'	10'	12'	14'	15'	17'	17.5'	18.5'
A: Top of Curbs to Top of Surface Lift	0.04	0.08	0.14	0.21	0.29	0.33	0.39	0.46	0.49	–	–	–
B: Top of Curbs to Top of Upper Base Lift	0.21	0.25	0.31	0.37	0.45	0.50	0.56	0.62	0.65	–	–	–
C: Top of Curbs to Top of C. R. Subgrade	0.46	0.50	0.56	0.63	0.71	0.75	0.81	0.88	0.91	0.97	0.98	1.01



COMBINED CURB & GUTTER

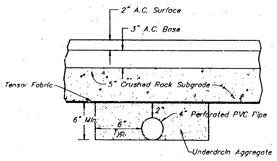


COMBINED ROLL TYPE CURB & GUTTER



TRANSVERSE CONSTRUCTION JOINTS

Transverse construction joints shall be constructed in flexible base pavements at locations where pavement joins existing flexible base pavement as shown by the detail. All costs associated with the construction of the transverse joint shall be included in the bid price for Square Yards 5" ASPHALTIC CONCRETE (3" BITUMINOUS BASE).



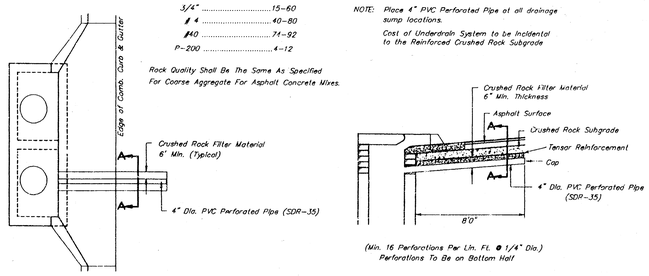
SECTION A-A

CRUSHED ROCK GRADATION REQUIREMENTS
Percent of Aggregate Retained

1 1/2"	0
3/4"	15-60
# 4	40-80
#40	71-92
P-200	4-12

Rock Quality Shall Be The Same As Specified For Coarse Aggregate For Asphalt Concrete Mixes.

NOTE: Place 4" PVC Perforated Pipe at all drainage sump locations.
Cost of Underdrain System to be Incidental to the Reinforced Crushed Rock Subgrade



(Min. 16 Perforations Per Lin. Ft. @ 1/4" Dia.)
Perforations To Be on Bottom Half

PAVEMENT UNDERDRAIN DETAIL

General Notes

FABRIC BASE REINFORCEMENT SHALL BE 8 X 1100 GEOGRID AS MANUFACTURED BY TENSAR CORPORATION OR APPROVED EQUAL. FABRIC BASE REINFORCEMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CRUSHED ROCK SHALL BE UNIFORMLY GRADED FROM 1-1/2" MAXIMUM SIZE TO NOT MORE THAN 10% PASSING A NO. 200 SIEVE. ROCK QUALITY SHALL BE THE SAME AS SPECIFIED FOR COARSE AGGREGATE FOR CONCRETE MIXES.

ROCK BASE IS TO BE COMPACTED AND SMOOTHED WITH A STEEL FACED ROLLER PRIOR TO PLACEMENT OF ASPHALT. TACK COAT WILL NOT BE APPLIED TO ROCK BASE.

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.

BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR LINE AND GRADE.

CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF ONE (1) FOOT FROM JOINTS IN PRECEDING LIFTS AND PLACED SO THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE OF THE TOP LIFT.

THE ASPHALTIC CONCRETE PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 5" ASPHALTIC CONCRETE (3" BITUMINOUS BASE.)

5 INCH Residential Asphaltic Concrete Pavement with Crushed Rock Base on Fabric Reinforcement
City of Wichita, Kansas

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

REV.

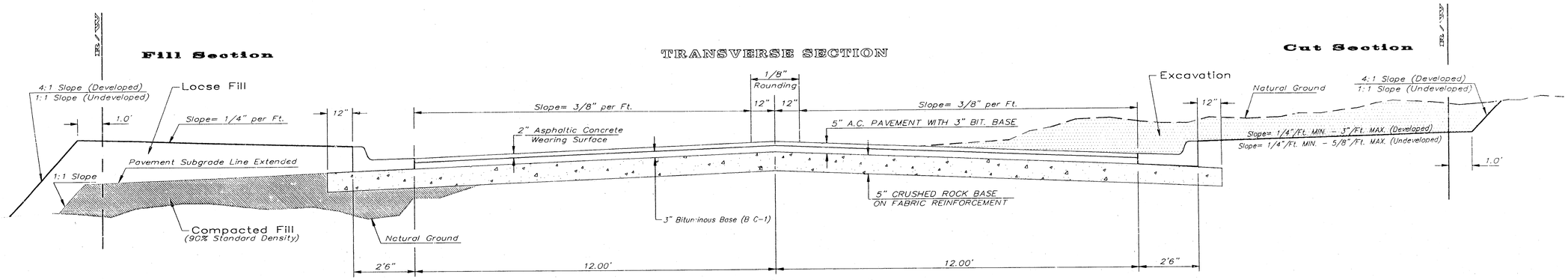
PROJECT NUMBER

SHEET 2 OF 13

DESIGN	DRAWN	APPROVED	DATE	SCALE

TYPICAL 29' B-B PAVEMENT DETAILS

TRANSVERSE SECTION

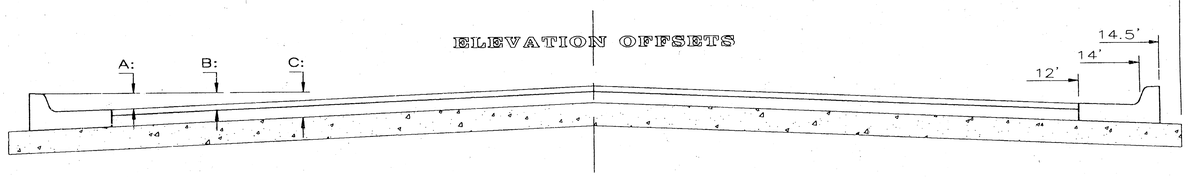


The crushed rock shall have the following gradation:

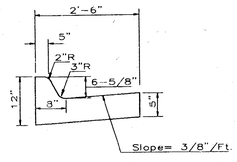
	% Retained
2-1/2"	0
3/4"	20 to 60
#4	50 to 80
#40	80 to 94
#200	90 to 98

Rock quality shall conform to the requirements specified by the KDOT 1990 Edition Standard Specification Subsection 1102 for durability Class I.

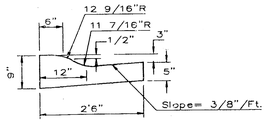
ELEVATION OFFSETS



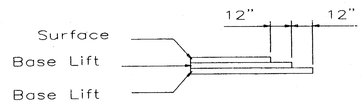
	DISTANCE FROM CENTERLINE (LT. & RT.)										
	0'	2'	4'	6'	7'	8'	10'	12'	14'	14.5'	15.5'
A: Top of Curbs to Top of Surface Lift	0.13	0.18	0.24	0.30	0.33	0.36	0.43	0.49	—	—	—
B: Top of Curbs to Top of Upper Base Lift	0.30	0.35	0.41	0.47	0.50	0.53	0.60	0.66	—	—	—
C: Top of Curbs to Top of C.R. Subgrade	0.55	0.60	0.66	0.72	0.75	0.78	0.85	0.91	0.97	0.98	1.01



COMBINED CURB & GUTTER

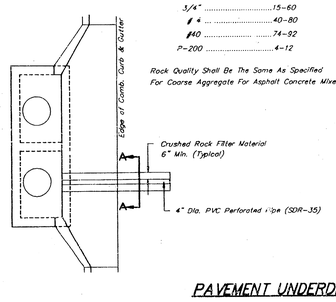


COMBINED ROLL TYPE CURB & GUTTER



TRANSVERSE CONSTRUCTION JOINTS

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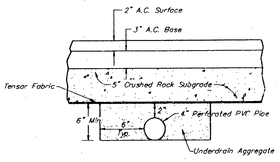


CRUSHED ROCK GRADATION REQUIREMENTS
Percent of Aggregate Retained

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3/4"	15-60
#4	40-80
#40	74-92
P-200	4-12

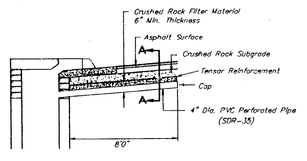
Rock Quality Shall Be The Same As Specified For Coarse Aggregate For Asphalt Concrete Mixes.

PAVEMENT UNDERDRAIN DETAIL



SECTION A-A

NOTE: Place 4" PVC Perforated Pipe at all drainage sump locations.
Cost of Underdrain System to be Incidental to the Reinforced Crushed Rock Subgrade.



(Min. 16 Perforations Per Lin. Ft. @ 1/4" Dia.)
Perforations To Be on Bottom Half

General Notes

FABRIC BASE REINFORCEMENT SHALL BE B X 1100 GEOGRID AS MANUFACTURED BY TENSAR CORPORATION OR APPROVED EQUAL. FABRIC BASE REINFORCEMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CRUSHED ROCK SHALL BE UNIFORMLY GRADED FROM 1-1/2" MAXIMUM SIZE TO NOT MORE THAN 10% PASSING A NO. 200 SIEVE. ROCK QUALITY SHALL BE THE SAME AS SPECIFIED FOR COARSE AGGREGATE FOR CONCRETE MIXES.

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CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF ONE (1) FOOT FROM JOINTS IN PRECEDING LIFTS AND PLACED SO THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE OF THE TOP LIFT.

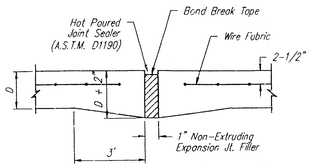
THE ASPHALTIC CONCRETE PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 5" ASPHALTIC CONCRETE (3" BITUMINOUS BASE.)

5 INCH Residential Asphaltic Concrete Pavement with Crushed Rock Base on Fabric Reinforcement
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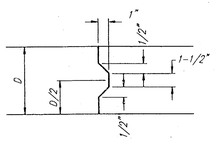
REV.	PROJECT NUMBER	SHEET	OF
		3	13

DESIGN	DRAWN	APPROVED	DATE	SCALE

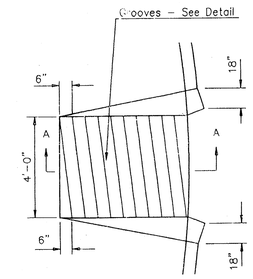


EXPANSION JOINT

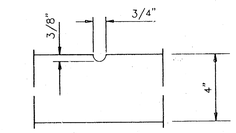
NOTE: Extra Thickness to be Subsidiary to Price of Square Yards Pavement



KEYWAY DETAIL

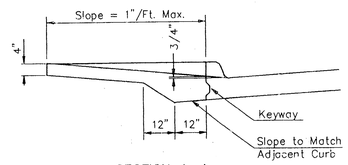


WHEELCHAIR RAMP PLAN VIEW

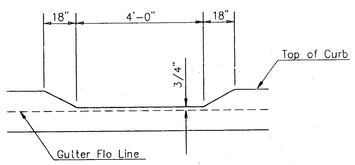


GROOVE DETAIL

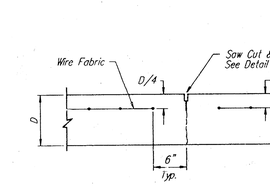
WHEELCHAIR RAMP DETAIL



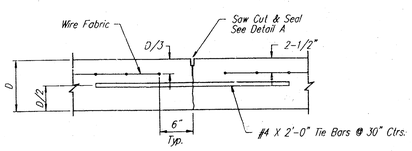
SECTION A–A



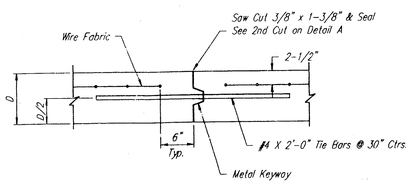
DEPRESSED CURB DETAIL



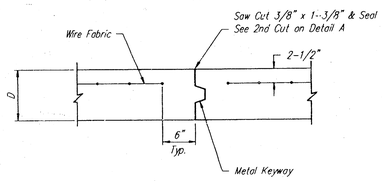
CONTRACTION JOINT DETAIL (C.J.)



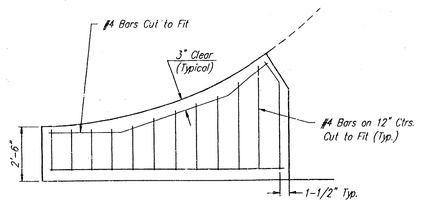
LONGITUDINAL JOINT DETAIL (L.J.)



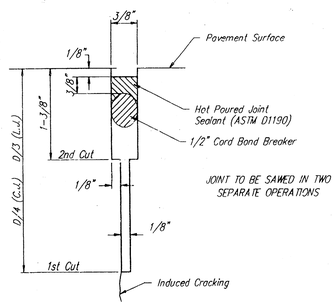
LONGITUDINAL JOINT DETAIL (L.J.)



OPTIONAL CONSTRUCTION JOINT

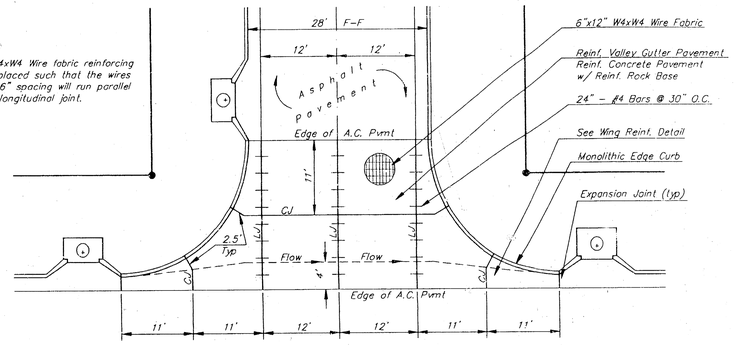


WING REINFORCING DETAIL



SAW JOINT DETAIL

Note:
6"x12" W4xW4 Wire fabric reinforcing shall be placed such that the wires with the 6" spacing will run parallel with the longitudinal joint.



VALLEY GUTTER JOINT PLAN

SHEFFORD & 15TH STREET

VALLEY GUTTER DETAILS

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

REV.

PROJECT NUMBER

SHEET 4 OF 13

DESIGN	DRAWN	APPROVED	DATE	SCALE
CMB\TCR				1" = 20'

BENCHMARKS:

"□" in top of N.W. Corner of Headwall to spillway just west of Center Section 7, Township 27S, R.1W
Elev. = 159.54 City Datum

"□" in curb just south of drive to 152 N. Shefford at Lot 21, Blk 3, Echo Hills.
Elev. = 157.98 City Datum

"T" post set 1' below grade, 10' N & 10' W. of the S.E. Corner of Lot 12, Blk 4, Echo Hills
Elev. = 154.87 City Datum

"T" post set 1' below grade, 10' S. of P.C. Lot 2, Blk 4, Echo Hills
Elev. = 161.52 City Datum

Scale: 1" = 20'-0"
● = Iron

ECHO HILLS

SHEFFORD

Sta 1+00 – P.C.
Sta 1+03.76
Sta 1+18.00
Sta 1+75.00
Sta 4+26.38 – P.I.
Sta 7+00

PVI
ELEV 158.85
48.62' VC

+0.967%
−0.431%
+1.093%
−0.406%
−0.433%

Sta 1+00 = N.E. Corner Lot 14 Blk. 11, Echo Hills

Sta 1+3.76 Begin Const of A.C. Pvmt

Remove & Replace A.C. Surface Course Cost to be Incidental to A.C. Pvmt

Existing Pavement

Match

Match Flow

76.24'

Const 5" A.C. Pavement w/ 5" Reinf. Rock Base

Const Std. Combined Curb & Gutter (6 5/8")

Const 4' Concrete Sidewalk

10' Util. Esm't

15' Util. Esm't (By Separate Instrument)

Curved Curb Line

Proposed 6" Water Main

Proposed 8" Water Main

6" Sanitary Sewer

8" Sanitary Sewer

Curve #1

584.15' R

599.15' R

616.15' R

633.15' R

648.15' R

80' ROW

70' ROW

64' ROW

34' F-F

Sta 5+75

PVI
ELEV 157.80
NO VC

Sta 4+26.38 – P.T.

Curve #1
Curve Data Based on Centerline
Rad. = 616.15' Delta = 30°00'00" Tangent = 165.10'
Arc = 322.62' L.C. = 318.94' Def/Ft. = 2.78966 Min.

Station	Arc	FACE CHORD LENGTHS 8 Lt.	8 Rt.	Defl.	T. Defl.
1+03.76 PC	–	–	–	0°00'00"	0°00'00"
1+18.00	14.24'	13.66'	14.82'	0°39'44"	0°39'44"
1+25.00	7.00'	6.71'	7.28'	0°19'31"	0°59'15"
1+50.00	25.00'	23.99'	26.02'	1°09'45"	2°09'00"
1+75.00	25.00'	23.98'	26.01'	1°09'44"	3°18'44"
2+00.00	25.00'	23.98'	26.02'	1°09'45"	4°28'29"
2+25.00	25.00'	23.98'	26.01'	1°09'44"	5°38'13"
2+50.00	25.00'	23.99'	26.02'	1°09'45"	6°47'58"
2+75.00	25.00'	23.98'	26.01'	1°09'44"	7°57'42"
3+00.00	25.00'	23.99'	26.02'	1°09'45"	9°07'27"
3+25.00	25.00'	23.98'	26.01'	1°09'44"	10°17'11"
3+50.00	25.00'	23.99'	26.02'	1°09'45"	11°26'56"
3+75.00	25.00'	23.98'	26.01'	1°09'44"	12°36'40"
4+00.00	25.00'	23.99'	26.02'	1°09'45"	13°46'25"
4+26.38 PT	26.38'	25.30'	27.44'	1°13'35"	15°00'00"

EARTHWORK QUANTITIES

Excavation	Compac vd Fill	Borrow
1590 CY	827 CY	1590 CY

As Built 5-17-93

ECHO HILLS
SHEFFORD

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

PROJECT NUMBER 073PPP (607879)

SHEET 5 OF 13

DESIGN	DRAWN	UTIL. CHECK'D	DATE	SCALE
N.B.W.	P.J.M.		SEPT 30, 92	1" = 20'

ECHO1.PWS

BENCHMARKS:

"O" in top of N.W. Corner of Headwall to spillway just west of Center Section 7, Township 27S, R.1W
Elev. = 159.54 City Datum

"O" in curb just south of drive to 1521 N. Shefford at L.I 21, Blk 3, Echo Hills
Elev. = 157.98 City Datum

"T" post set 1' below grade, 10' N & 10' W. of the S.E. Corner of Lot 12, Blk 4, Echo Hills
Elev. = 154.87 City Datum

"T" post set 1' below grade, 10' S. of P.C. Lot 2, Blk 4, Echo Hills
Elev. = 161.52 City Datum

Sta 7+00
Sta 7+50.76
Sta 8+30.76
Sta 10+40.43 – P.C.
Sta 13+47.32 – P.T.
= Sta 5+06.04 See Sheet
Sta 13+23.52
Sta 13+16.02

PVI ELEV 158.20 NO VC

-0.431%
+0.437%
-0.433%
-0.371%
+0.439%
+0.393%

Scale: 1" = 20'-0"
● = iron

15th STREET
28' F-F
58' ROW
24' F-F
64' ROW

ECHO HILLS
SHEFFORD

Const Standard 1A Inlet Hookup Adjust as Necessary

Const 5" Reinf. Conc Pvmt w/ 5" Reinf. Rock Base w/ Monolithic Curb (6 5/8")

Const Std. Combined Curb & Gutter (6 5/8")

Const 5" A.C. Pvmt w/ 5" Reinf. Rock Base

Curve #2
360.00' R
375.00' R
392.00' R
409.00' R
424.00' R

Proposed 8" Water Main

8" Sanitary Sewer

10' Util. Esm't (By Separate Instrument)

15' Util. Esm't (By Separate Instrument)

30' Drainage and Storm Sewer Easement

Const Standard 1A Inlet Hookup Adjust as Necessary Both Sides

Const 4' Concrete Sidewalk

Iron @ Sta 7+61.76

Iron @ Sta 8+19.76

Iron @ Sta 13+16.02

20' R.

PVI ELEV 156.40 NO VC

PVI ELEV 156.10 NO VC

PVI ELEV 157.02 NO VC

Curve #2
Curve Data Based on Centerline
Rad. = 392.00' Delta = 44°51'21" Tangent = 161.79'
Arc = 306.89' L.C. = 299.11' Def/Ft. = 4.38488 Min.

Station	Arc	FACE CHORD LENGTHS 8' Lt.	8' Rt.	Defl.	T. Defl.
10+40.43 PC	–	–	–	0°00'00"	0°00'00"
10+50.00	9.57'	8.96'	10.18'	0°41'58"	0°41'58"
10+75.00	25.00'	23.40'	26.59'	1°49'37"	2°31'35"
11+00.00	25.00'	23.40'	26.59'	1°49'37"	4°21'12"
11+25.00	25.00'	23.40'	26.59'	1°49'38"	6°10'50"
11+50.00	25.00'	23.40'	26.59'	1°49'37"	8°00'27"
11+75.00	25.00'	23.40'	26.59'	1°49'37"	9°50'04"
12+00.00	25.00'	23.40'	26.59'	1°49'38"	11°39'42"
12+25.00	25.00'	23.40'	26.59'	1°49'37"	13°29'19"
12+50.00	25.00'	23.40'	26.59'	1°49'37"	15°18'56"
12+75.00	25.00'	23.40'	26.59'	1°49'38"	17°08'34"
13+00.00	25.00'	23.40'	26.59'	1°49'37"	18°58'11"
13+16.02	16.02'	15.00'	17.04'	1°10'15"	20°08'26"
13+23.52	7.50'	7.02'	7.98'	0°32'53"	20°41'19"
13+47.32 PT	23.80'	22.28'	25.32'	1°44'22"	22°25'41"

As Built 5-17-93

ECHO HILLS
SHEFFORD

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

PROJECT NUMBER 073PPP (607879)

SHEET 6 OF 13

DESIGN	DRAWN	UTIL. CHECK'D	DATE	SCALE
N.B.W.	P.J.M.		SEPT 30, 92	1" = 20'

92-05-E&S

ECHO1SAVE

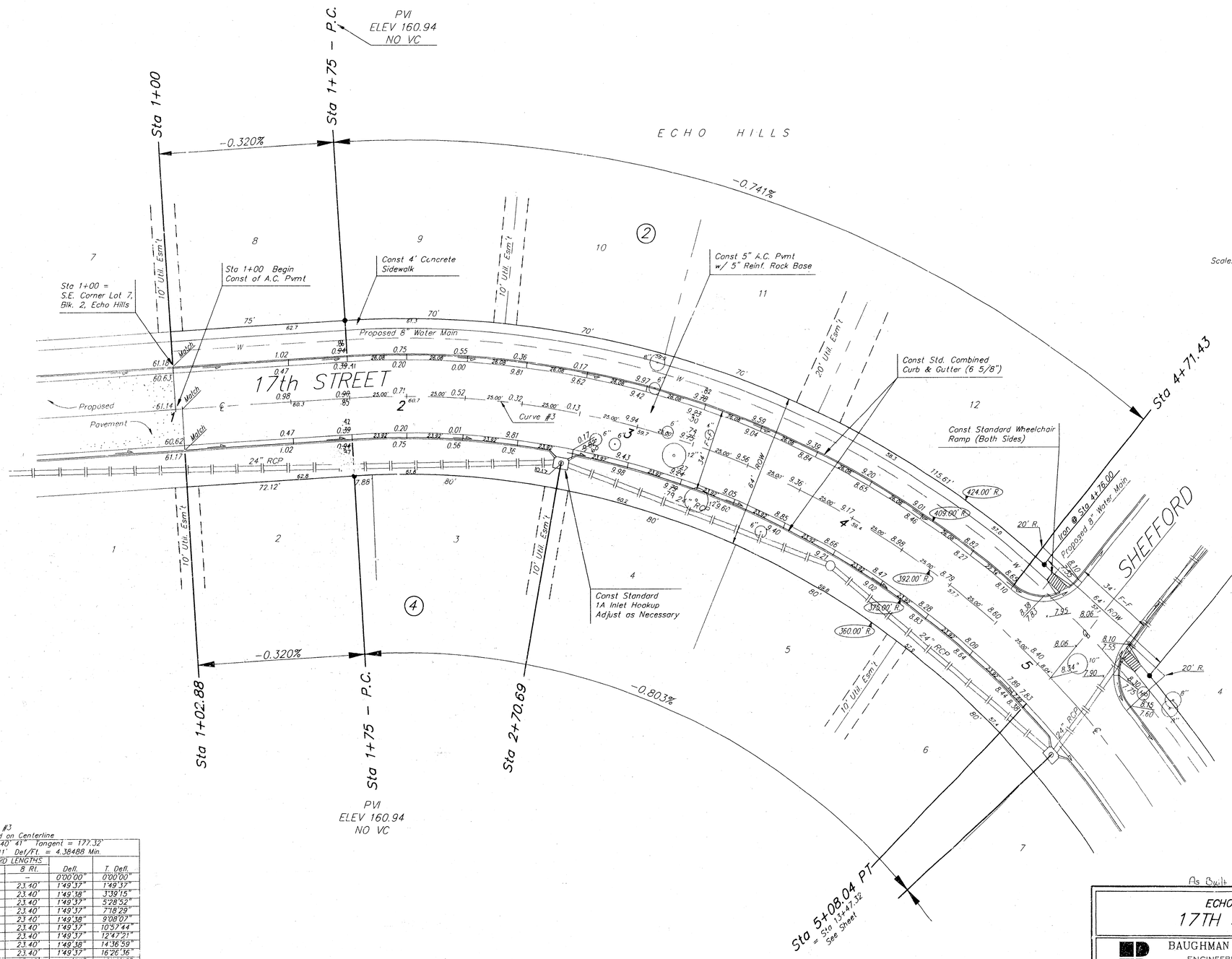
BENCHMARKS:

"□" in top of N.W. Corner of Headwall to spillway just west of Center Section 7, Township 27S, R.1W
Elev. = 159.54 City Datum

"□" in curb just south of drive to 1524 N. Shelford at Lot 21, Blk 3, Echo Hills.
Elev. = 157.98 City Datum

"T" post set 1' below grade, 10' N. & 10' W. of the S.E. Corner of Lot 12, Blk 4, Echo Hills
Elev. = 154.87 City Datum

"T" post set 1' below grade, 10' S. of P.C. Lot 2, Blk 4, Echo Hills
Elev. = 161.52 City Datum



Curve #3
Curve Data Based on Centerline
Rad. = 392.00' Delta = 48°40'41" Tangent = 177.32'
Arc = 333.04' L.C. = 323.11' Def/Ft. = 4.38488 Min.

Station	Arc	FACE CHORD LENGTHS 8 Lt.	8 Rt.	Defl.	T. Defl.
1+75.00 PC	–	–	–	0°00'00"	0°00'00"
2+00.00	25.00'	26.59'	23.40'	1°49'37"	1°49'37"
2+25.00	25.00'	26.59'	23.40'	1°49'38"	3°39'15"
2+50.00	25.00'	26.59'	23.40'	1°49'37"	5°28'52"
2+75.00	25.00'	26.59'	23.40'	1°49'37"	7°18'29"
3+00.00	25.00'	26.59'	23.40'	1°49'38"	9°08'07"
3+25.00	25.00'	26.59'	23.40'	1°49'37"	10°57'44"
3+50.00	25.00'	26.59'	23.40'	1°49'37"	12°47'21"
3+75.00	25.00'	26.59'	23.40'	1°49'38"	14°36'59"
4+00.00	25.00'	26.59'	23.40'	1°49'37"	16°26'36"
4+25.00	25.00'	26.59'	23.40'	1°49'37"	18°16'13"
4+50.00	25.00'	26.59'	23.40'	1°49'38"	20°05'51"
4+71.43	21.43'	22.79'	20.06'	1°33'58"	21°39'49"
4+75.00	3.57'	3.80'	3.34'	0°15'39"	21°55'28"
5+00.00	25.00'	26.59'	23.40'	1°49'37"	23°45'05"
5+08.04 PT	8.04'	8.56'	7.53'	0°35'16"	24°20'21"

As Built 5-17-93

ECHO HILLS
17TH STREET

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

PROJECT NUMBER	SHEET
073PPP (607879)	7 OF 13

DESIGN	DRAWN	UTIL. CHECK'D	DATE	SCALE
N.B.W.	P.J.M.		SEPT 30, 92	1" = 20'

92-05-E061
ECHOPLAN1

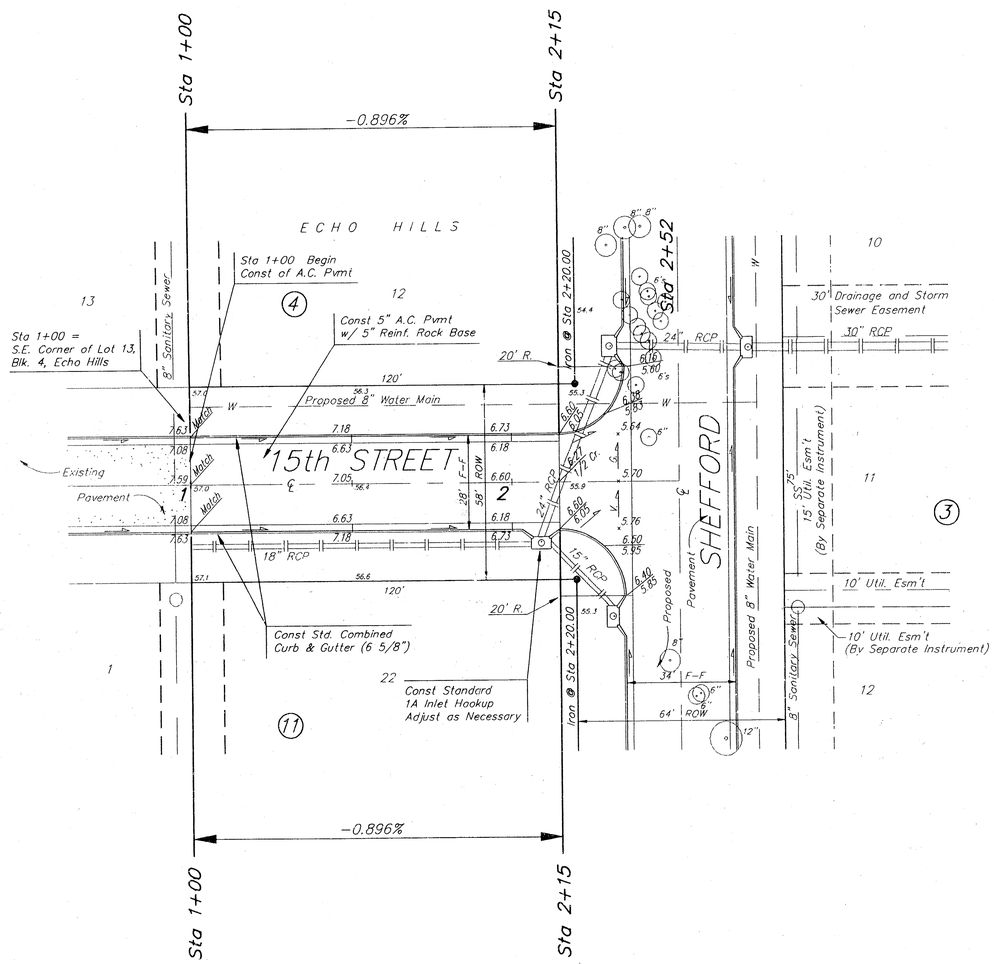
BENCHMARKS:

"□" in top of N.W. Corner of Headwall to spillway just west of Center Section 7, Township 27S, R.1W
Elev. = 159.54 City Datum

"□" in curb just south of drive to 1521 N. Shefford at Lot 21, Blk 3, Echo Hills.
Elev. = 157.98 City Datum

"T" post set 1' below grade, 10' N. & 1.0' W. of the S.E. Corner of Lot 12, Blk 4, Echo Hills
Elev. = 154.87 City Datum

"T" post set 1' below grade, 10' S. of P.C. Lot 2, Blk 4, Echo Hills
Elev. = 161.52 City Datum



Scale: 1" = 20'-0"
● = Iron

ECHO HILLS
15TH STREET

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

PROJECT NUMBER 073PPP (607879)

SHEET 8 OF 13

DESIGN	DRAWN	UTIL. CHECK'D	DATE	SCALE
N.B.W.	P.J.M.		SEPT 30, 92	1" = 20

92-105-E363

BENCHMARKS:

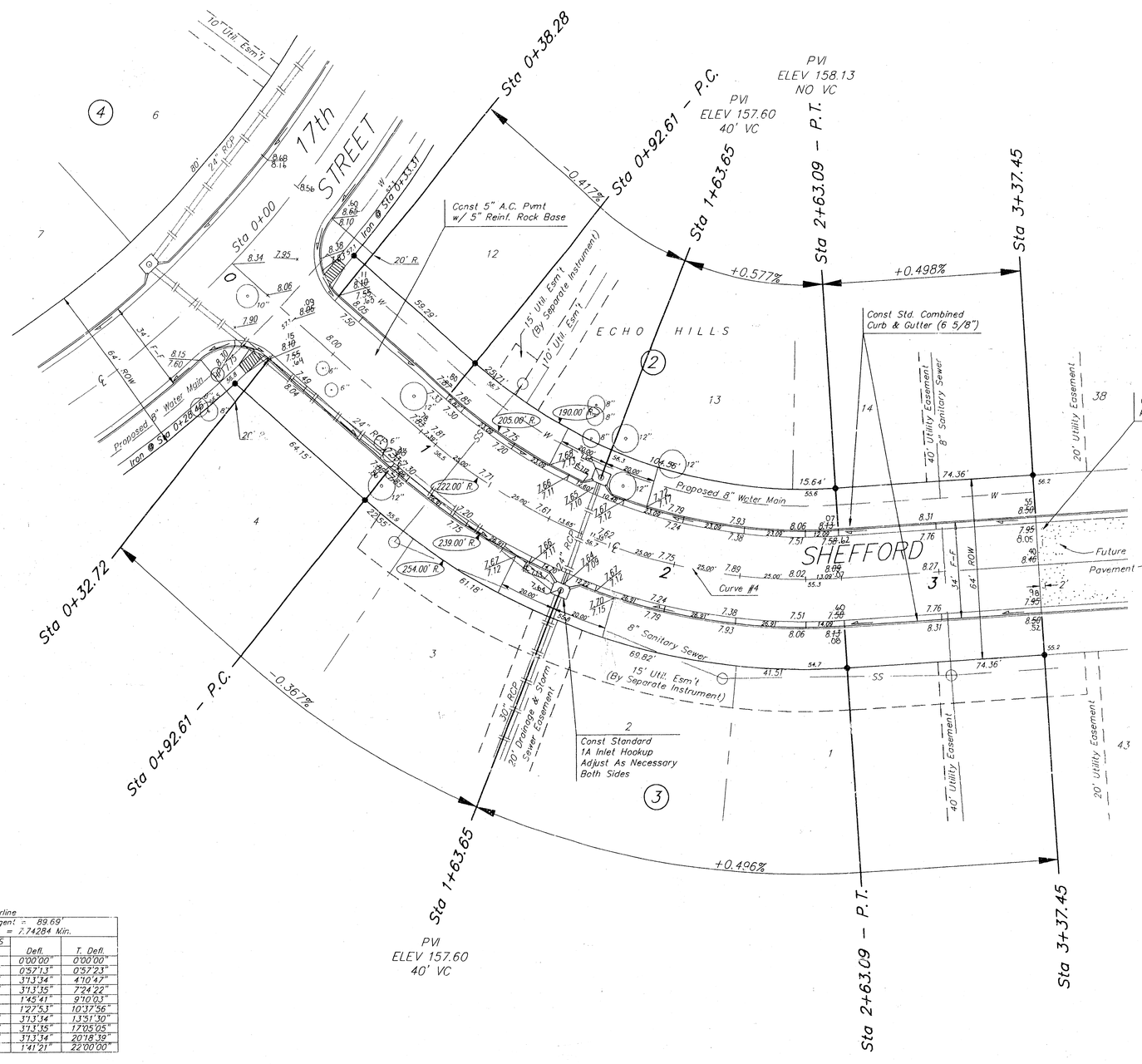
"□" in top of N.W. Corner of Headwall to spillway just west of Center Section 7, Township 27S, R.1W
Elev. = 159.54 City Datum

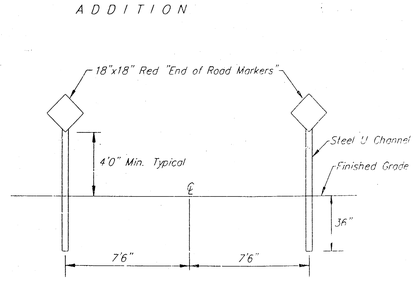
"□" in curb just south of drive to 1521 N. Shefford at Lot 21, Blk 3, Echo Hills.
Elev. = 157.98 City Datum

"T" post set 1' below grade, 10' N & 10' W. of the S.E. Corner of Lot 12, Blk 4, Echo Hills
Elev. = 154.87 City Datum

"T" post set 1' below grade, 10' S. of P.C. Lot 2, Blk 4, Echo Hills
Elev. = 161.52 City Datum

Scale: 1" = 20'-0"
● = Iron





Barricade Detail

As Built 5-17-93

Curve #4
Curve Data Based on Centerline
Rad. = 222' Delta = 44°00'00" Tangent = 89.69'
Arc = 170.48' L.C. = 166.33' Def/Ft. = 7.74284 Min.

Station	Arc	FACE CHORD LENGTHS 8 Lt.	8 Rt.	Defl.	T. Defl.
0+92.61 PC	–	–	–	0°00'00"	0°00'00"
1+00.00	7.39'	6.56'	8.22'	0°57'13"	0°57'23"
1+25.00	25.00'	22.17'	27.80'	3°13'34"	4°10'47"
1+50.00	25.00'	22.17'	27.80'	3°13'35"	7°24'22"
1+63.65	13.65'	12.11'	15.18'	1°45'41"	9°10'03"
1+75.00	11.36'	10.07'	12.63'	1°27'53"	10°37'56"
2+00.00	25.00'	22.17'	27.80'	3°13'34"	13°51'30"
2+25.00	25.00'	22.17'	27.80'	3°13'35"	17°05'05"
2+50.00	25.00'	22.17'	27.80'	3°13'34"	20°18'39"
2+63.09 PT	13.09'	11.61'	14.56'	1°41'21"	22°00'00"

ECHO HILLS
SHEFFORD

92-05-EM3

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

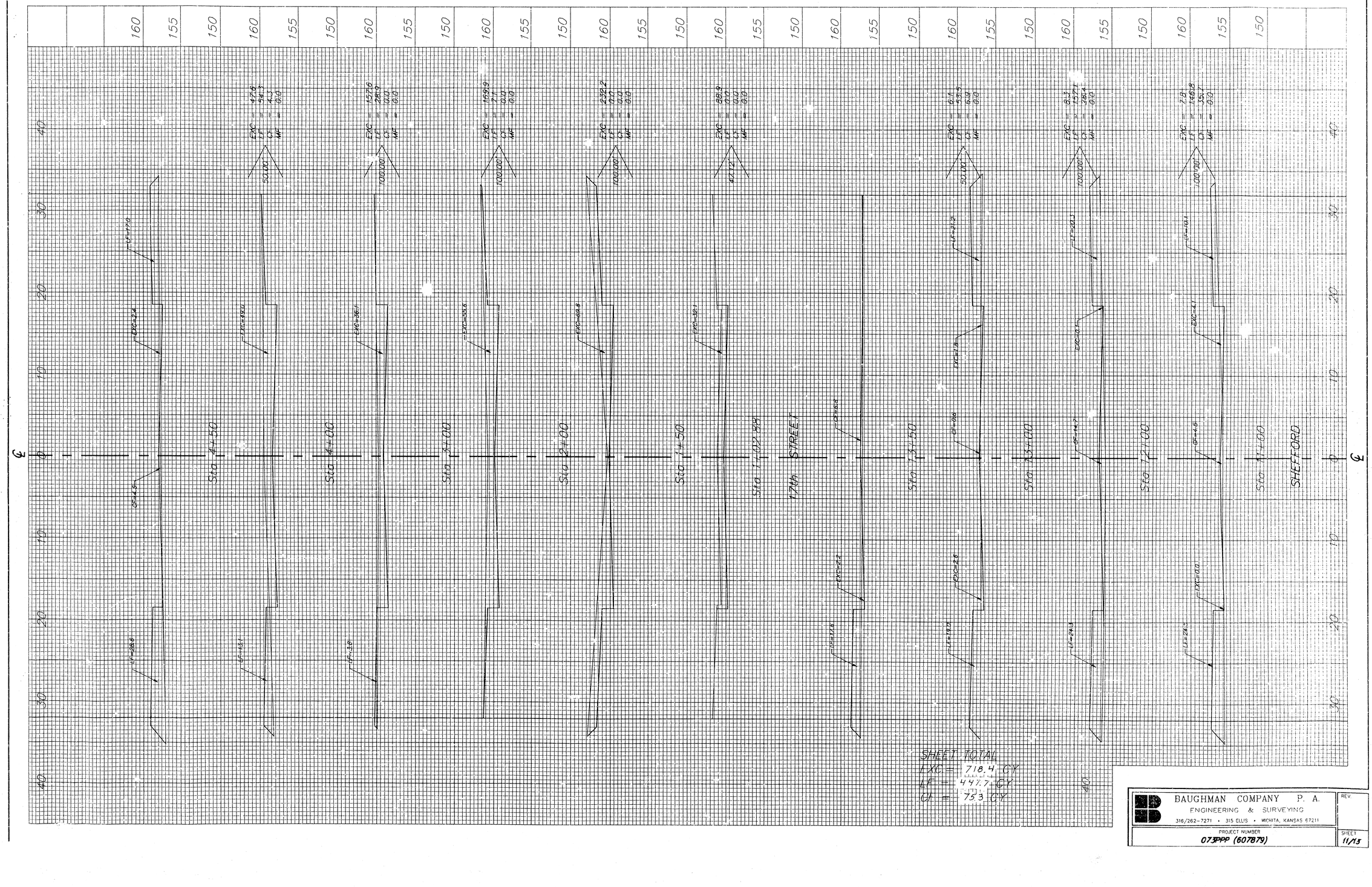
PROJECT NUMBER	SHEET
073PPP (607879)	9 OF 13

DESIGN	DRAWN	UTIL. CHECK'D	DATE	SCALE
N.B.W.	P.J.M.		SEPT 30, 92	1" = 20'

COMPLANS

SHEET TOTAL
EXC = 787.4 CY
FL = 954.2 CY
CF = 222.2 CY

BAUGHMAN COMPANY P. A. ENGINEERING & SURVEYING 316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211	REV.
PROJECT NUMBER 073PPP (607879)	SHEET 10/13

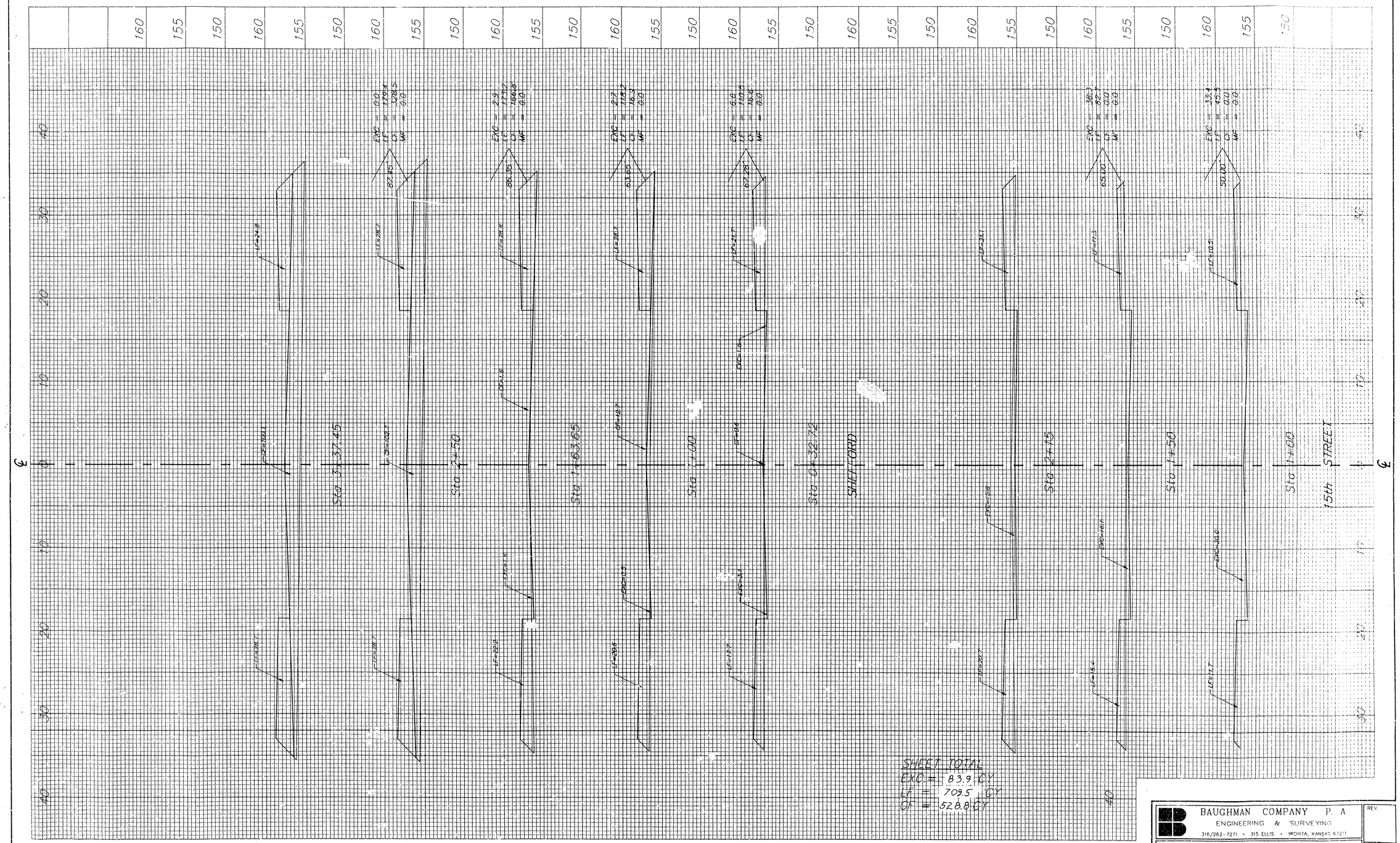


BAUGHMAN COMPANY P. A.
ENGINEERING & SURVEYING
316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

REV

PROJECT NUMBER
073PPP (607879)

SHEET
11/13



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

PROJECT NUMBER
073PPP (607879)

REV.

SHEET
12/13

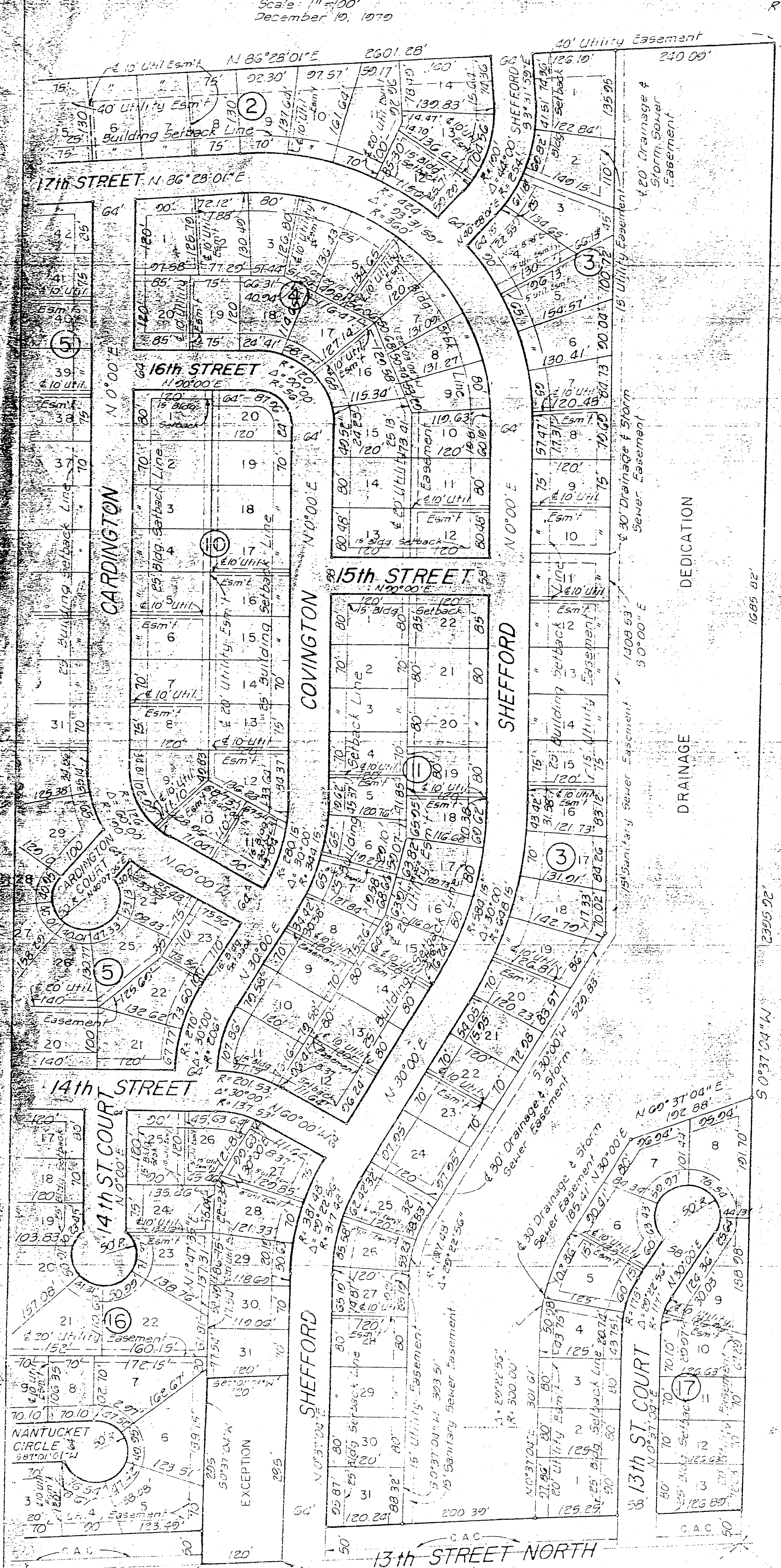
N-0-2-28

ECHO HILLS

AN ADDITION TO WICHITA SEDGWICK COUNTY, KANSAS

BM- City Standard Brass Cap in Conc. 25' No. & 30' E of S 1/4 Cor. Sec. 7, T27S, R1W. Elev. 1345.39

Scale: 1" = 100'
December 19, 1979



STATE OF KANSAS
SS
COUNTY OF SEDGWICK

I, R. W. LINN A REGISTERED PROFESSIONAL ENGINEER [illegible] DO HEREBY CERTIFY THAT ON THIS 5TH DAY OF FEBRUARY 1980 I HAVE CAUSED TO BE [illegible] COUNTY, KANSAS, INTO LOTS, BLOCKS, STREETS [illegible] BEING THE SOUTHWEST 1/4 OF SECTION 7, [illegible] 6TH P.M. EXCEPT FOR A PORTION [illegible] OF SAID SOUTHWEST 1/4; THENCE NORTH 295 FEET; THENCE WEST 120 FEET; THENCE SOUTH 295 FEET TO A POINT IN THE SOUTH LINE OF SAID SOUTHWEST 1/4; [illegible] EAST ALONG THE SOUTH LINE OF SAID SOUTHWEST 1/4 A DISTANCE OF [illegible] POINT OF BEGINNING; AND MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTHWEST CORNER OF THE SOUTHWEST 1/4 OF SECTION 7, TOWNSHIP 27 SOUTH, RANGE 1 EAST OF THE 6TH P.M., THENCE BEARING N 0°00'00" E ALONG THE WEST LINE OF SAID SOUTHWEST 1/4 A DISTANCE OF 2369.44 FEET TO THE NORTHWEST CORNER OF SAID SOUTHWEST 1/4; THENCE BEARING N 86°28'01" E ALONG THE NORTH LINE OF SAID SOUTHWEST 1/4 A DISTANCE OF 2601.28 FEET TO THE NORTHEAST CORNER OF SAID SOUTHWEST 1/4, SAID POINT ALSO BEING THE NORTHWEST CORNER OF WESTLINK VILLAGE FOURTEENTH ADDITION, WICHITA, SEDGWICK COUNTY, KANSAS; THENCE BEARING S 0°37'04" W ALONG THE EAST LINE OF SAID SOUTHWEST 1/4 AND ALSO THE WEST LINE OF WESTLINK VILLAGE FOURTEENTH ADDITION A DISTANCE OF 2395.92 FEET TO THE SOUTHEAST CORNER OF SAID SOUTHWEST 1/4; THENCE BEARING S [illegible] ALONG THE SOUTH LINE OF SAID SOUTHWEST 1/4 A DISTANCE OF 895 FEET; THENCE BEARING N 0°37'04" E A DISTANCE OF 295.00 FEET; THENCE BEARING [illegible] DISTANCE OF 120.00 FEET; THENCE BEARING S 0°37'04" W A DISTANCE OF [illegible] FEET TO A POINT IN THE SOUTH LINE OF SAID NORTHWEST 1/4; THENCE BEARING S 87°01'01" W ALONG SAID SOUTH LINE A DISTANCE OF 1759 FEET TO THE POINT OF BEGINNING.

R. W. LINN, P.E.
NO. 3634

KNOW ALL MEN BY THESE PRESENTS THAT WE, THE UNDERSIGNED PROPRIETORS OF THE LAND AS ABOVE SET FORTH IN THE ENGINEER'S CERTIFICATE, HAVE CAUSED THE LAND TO BE SURVEYED AND PLATTED INTO LOTS, BLOCKS, STREETS AND DRAINAGE RIGHT-OF-WAY, THE SAME TO BE KNOWN AS ECHO HILLS, AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS. EASEMENTS, AS INDICATED FOR THE CONSTRUCTION AND MAINTENANCE OF PUBLIC UTILITIES AND FOR DRAINAGE PURPOSES, ARE HEREBY GRANTED. THE STREETS ARE HEREBY DEDICATED TO AND FOR THE USE OF THE PUBLIC. THE DRAINAGE RIGHT-OF-WAY IS HEREBY DEDICATED TO THE PUBLIC FOR DRAINAGE PURPOSES. ALL ABUTTER'S RIGHTS OF ACCESS TO AND FROM 13TH STREET NORTH AND 119TH STREET WEST OVER AND ACROSS THE SOUTH LINES OF BLOCKS 13, 16 AND 3 AND ALSO THE WEST LINES OF BLOCKS 1, 7 AND 13 ARE HEREBY GRANTED TO THE CITY OF WICHITA. MINIMUM PAD ELEVATIONS REQUIRED AS NOTED IN TABLES.

WESTLINK INVESTMENT CORPORATION

THURMAN W. SMITH, PRESIDENT

STATE OF KANSAS
SS
COUNTY OF SEDGWICK

BE IT REMEMBERED THAT ON THIS 4th DAY OF February, 1980, BEFORE ME, A NOTARY PUBLIC IN AFORESAID STATE AND COUNTY, CAME THURMAN W. SMITH, PRESIDENT, FOR WESTLINK INVESTMENT CORPORATION, TO ME PERSONALLY KNOWN TO BE THE SAME PERSON WHO EXECUTED THE FOREGOING INSTRUMENT OF WRITING AND DULY ACKNOWLEDGED THE EXECUTION OF SAME FOR AND ON BEHALF AND AS THE ACT AND DEED OF SAID PERSON. IN TESTIMONY WHEREOF I HAVE HEREUNTO SET MY HAND AND AFFIXED MY NOTARIAL SEAL THE DAY AND YEAR ABOVE WRITTEN.

PATRICIA A. NELSON

MY COMMISSION EXPIRES: January 28, 1984

WE, SLAWSON INVESTMENT CORPORATION, MORTGAGEE OF THE LAND [illegible] DESCRIBED IN THE SURVEYOR'S CERTIFICATE, DO HEREBY CONSENT TO THE PLATTING OF ECHO HILLS, AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS.

DONALD C. SLAWSON, PRESIDENT

STATE OF KANSAS
SS
COUNTY OF SEDGWICK

BE IT REMEMBERED THAT ON THIS 5th DAY OF February, 1980, BEFORE ME, A NOTARY PUBLIC IN AFORESAID STATE AND COUNTY, [illegible] C. SLAWSON, PRESIDENT OF SLAWSON INVESTMENT CORPORATION, TO ME PERSONALLY KNOWN TO BE THE SAME PERSON WHO EXECUTED THE FOREGOING INSTRUMENT OF WRITING AND DULY ACKNOWLEDGE THE EXECUTION OF SAME FOR AND ON BEHALF AND AS THE ACT AND DEED OF SAID PERSON. IN TESTIMONY WHEREOF I HAVE HEREUNTO SET MY HAND AND AFFIXED MY NOTORIAL SEAL THE DAY AND YEAR ABOVE WRITTEN.

GRACE PIERCE, NOTARY PUBLIC

MY COMMISSION EXPIRES: ____

THIS PLAT HAS BEEN SUBMITTED TO AND APPROVED BY THE WICHITA-SEDGWICK COUNTY METROPOLITAN AREA PLANNING COMMISSION, WICHITA, KANSAS.

DATED THIS 17TH DAY OF JANUARY, 1980

WILLIAM J. GOEBEL, CHAIRMAN

ROBERT A. LAKIN, DIRECTOR

THIS PLAT APPROVED AND ALL DEDICATIONS SHOWN HEREON ARE ACCEPTED BY THE CITY COMMISSION OF THE CITY OF WICHITA, KANSAS, THIS 12TH DAY OF FEB, 1980.

[illegible]

477366

THIS IS TO CERTIFY THAT THIS INSTRUMENT WAS FILED FOR RECORD IN THE REGISTER OF DEEDS OFFICE AT 10:35 A.M. ON THE 26TH DAY OF FEBRUARY, 1980.

BETTE F. McCART, REGISTER OF DEEDS

Pat Kettler, DEPUTY

THIS PLAT APPROVED AND ALL DEDICATIONS [illegible] BOARD OF COUNTY COMMISSIONERS OF SEDGWICK COUNTY [illegible] DAY OF February, 1980

DONALD E. [illegible]

ATTEST:

[illegible] COUNTY CLERK

ENTERED ON TRANSFER RECORD THIS 26 DAY OF February, 19[illegible]

This is to certify that this instrument has been ratified for record in the Register of Deeds Office for the purpose of changing Pad Elevations and correction of some platted distances at 2:1_ M. on the 1_ day of ____, 1980

Bette F. McCart, Register of Deeds

Pat Kettler, Deputy

Subdivision Plat