

STREET IMPROVEMENTS FOR ECK 3RD ADDITION

SHEFFORD: FROM THE N.L. WESTLAWN CIRCLE TO THE S.L. OF 21ST ST.
SHEFFORD CT: FROM THE W.L. SHEFFORD TO AND INCLUDING CUL-DE-SAC
SHEFFORD CT: FROM THE W.L. SHEFFORD TO AND INCLUDING CUL-DE-SAC
WESTLAWN CIRCLE: FROM THE E.L. ECK 3RD ADDN. TO AND INCLUDING
CUL-DE-SAC

PROJECT NUMBER
472-76-245-81635-000-000-001

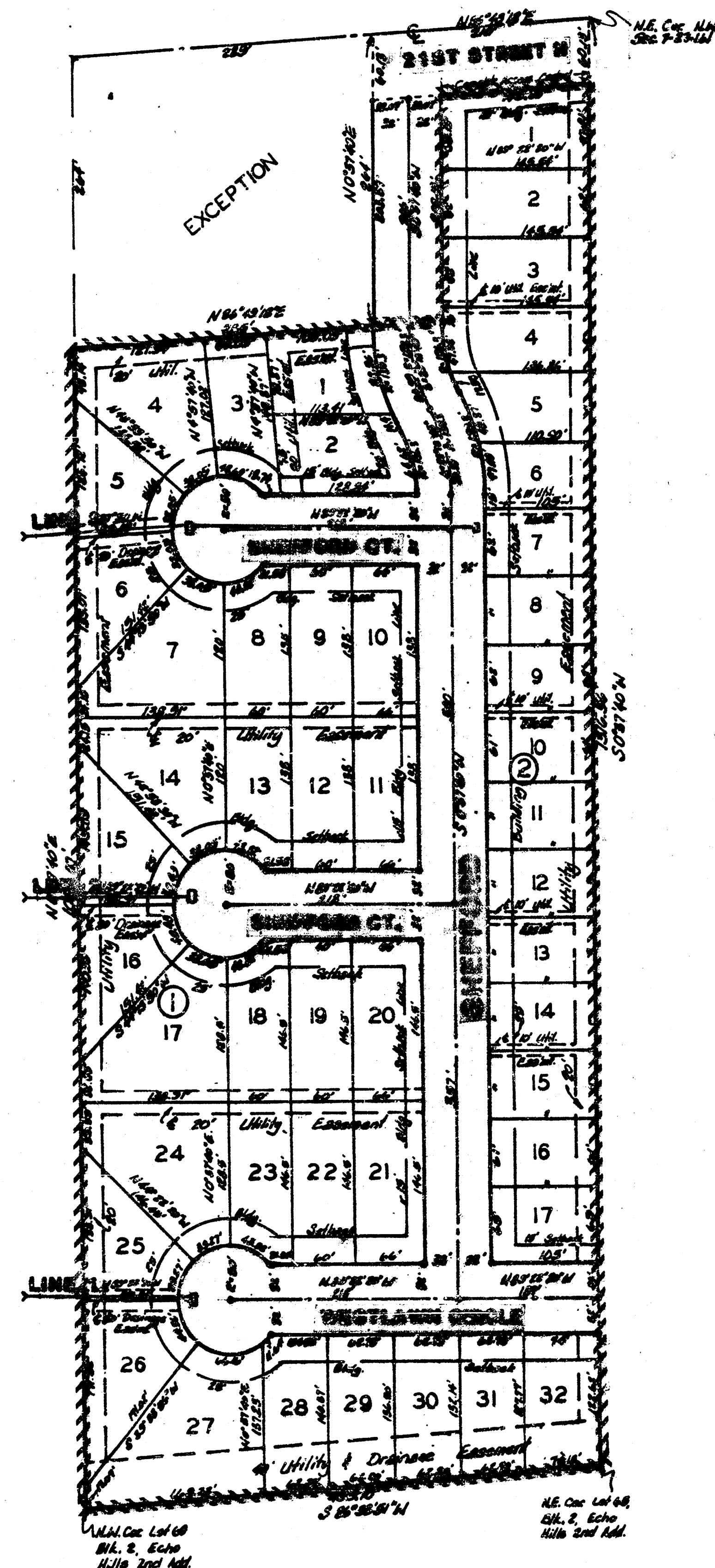
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CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK - CITY ENGINEER

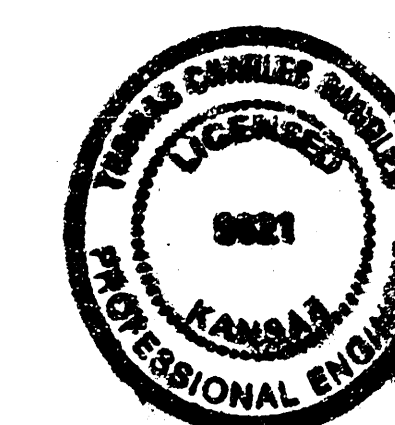
BENCHMARKS

1. City Disc. S.E. Corner of 119th St. West and 21st St.
North. Elevation = 172.08
2. Square Cut in S.E. Corner of Concrete Box Culvert
located 800 feet West of the Center Line of Shefford
on 21st St. North. Elevation = 163.36
3. Top of iron located in Thimble at the N.E. Corner of the
N.W. 1/4, Section 7-27-1W. Elevation = 165.91
4. Square Cut in N.E. Corner of Concrete Box Culvert
located 75 feet West and 20 feet South of the S.W. Corner
of Eck 3rd Addition. Elevation = 160.23



GENERAL NOTES

1. Utility service lines, poles, valve boxes, meters, and
excavations 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. 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.
3. 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.
4. Limits of earthwork shall match existing ground elevations
at the right-of-way line unless otherwise noted on the
plans with a new finished grade elevation. When a new
finished grade elevation is shown, the earthwork shall
extend one foot beyond the right-of-way line and then
sloped up or down using permissible slopes to match the
existing ground surface.
5. Contractor shall give property owners abutting this
project, whose yards will be lower than the new finished
grade elevations at the right-of-way line, an opportunity
to utilize excess excavated material from the project to
regrade their yards to drain to the new pavement.
Contractor will be required to dump and spread the excess
material as required by the specification when requested by
the property owner. The Contractor shall ascertain that a
dirt order form has been properly executed by the property
owner before any such excess material is delivered to such
properties.
6. The Contractor will be permitted to bid only one of the
alternate types of subgrade treatment. The type bid by the
successful bidder will be the type of subgrade treatment
used to construct the project.
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 or a licensed
professional engineer in accordance with state laws.
8. Removal of existing concrete parking lot pavements, asphalt
parking lot pavements, asphalt driveway pavements and/or
asphalt sidewalk pavements will be paid for as square feet
of walk and drive removed.
9. Curb Inlet hookups to be paid for at the unit price bid for
Type 1A Hookup, regardless of inlet length.

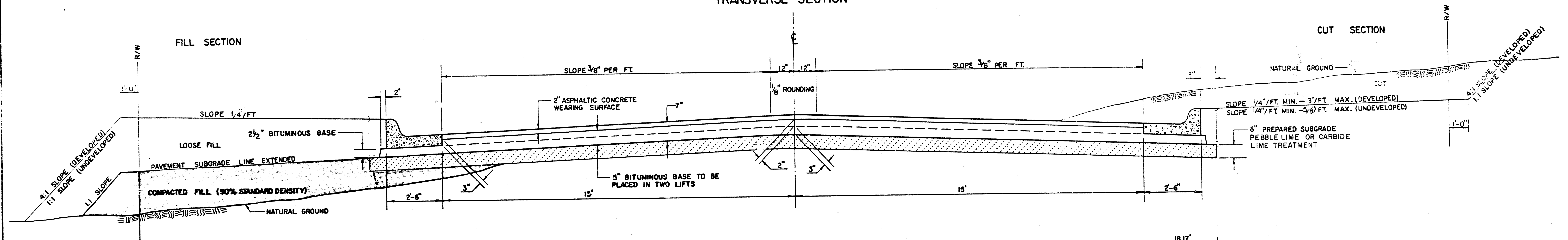


Rev. April 30, 1987
April 13, 1987
BAUGHMAN COMPANY, P.A.
SURVEYING & ENGINEERING
1101000-7474 • 210 ELLIS • WICHITA, KANSAS 67201

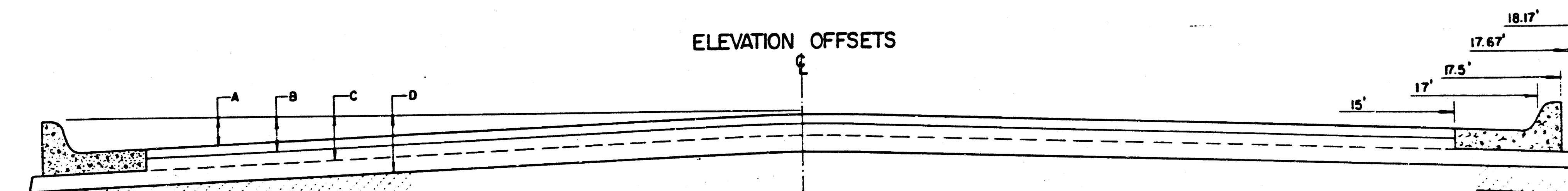
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TYPICAL 35' PAVEMENT DETAILS

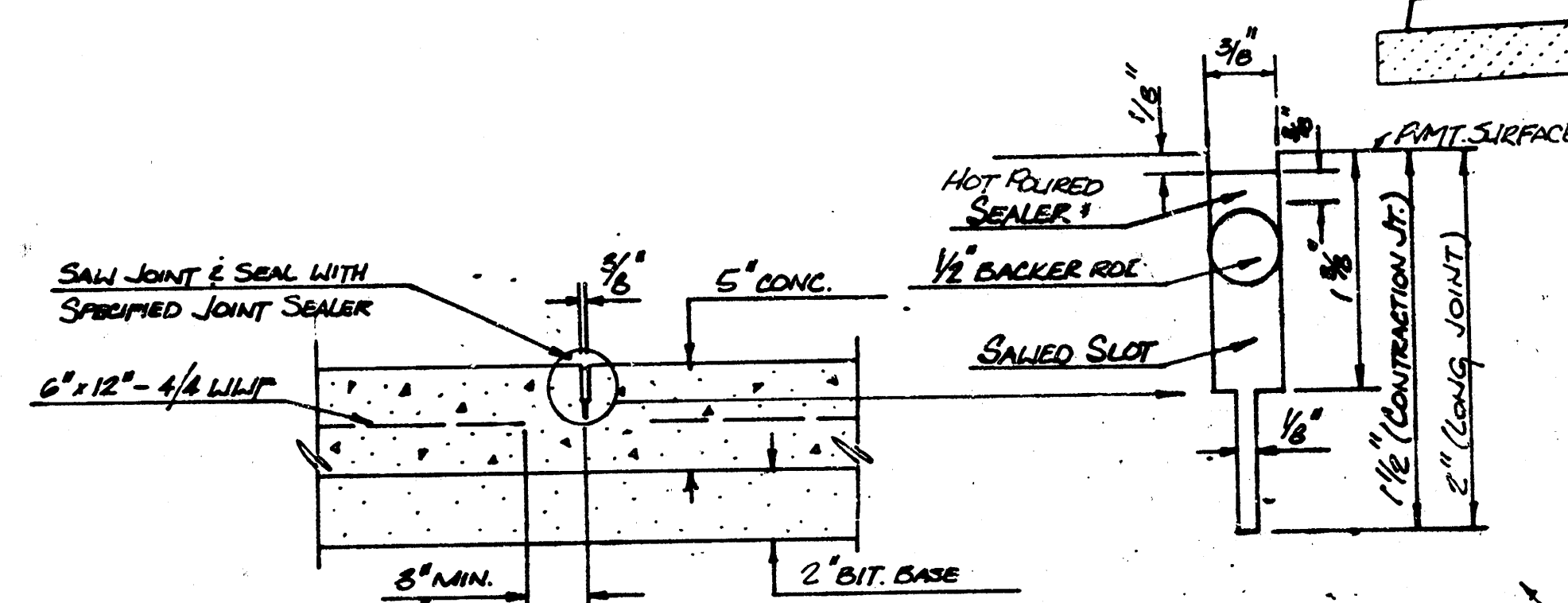
TRANSVERSE SECTION



ELEVATION OFFSETS

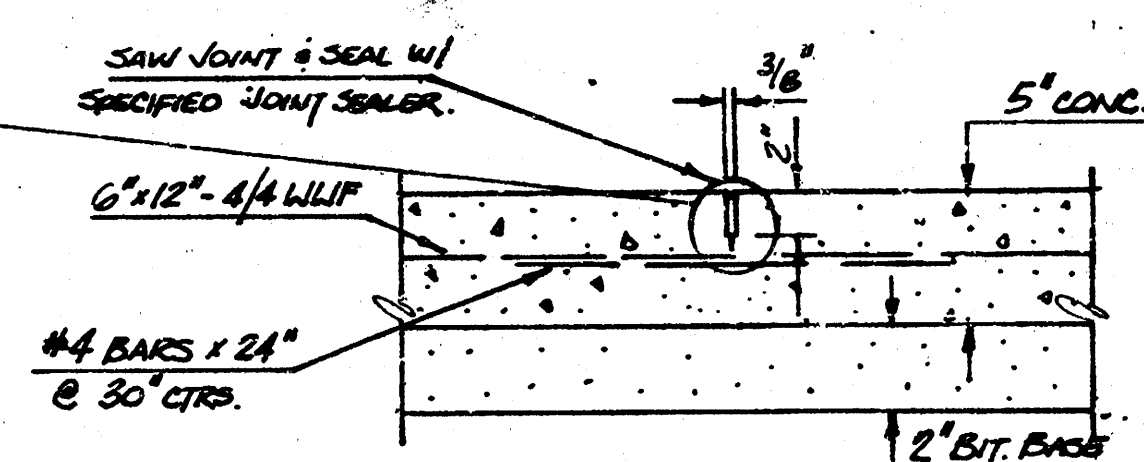


* NOTE: SEALER MATERIAL SHALL CONFORM TO ASTM D-5699 OR ASTM D-1190



CONTRACTION JOINT FOR VALLEY GUTTER

	DISTANCE FROM CENTERLINE (LT. & RT.)													
	0'	2'	4'	6'	8.5'	10'	12'	14'	15'	17'	17.5'	17.67'	18.17'	
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 LOWER BASE LIFT	0.37	0.43	0.50	0.57	0.67	0.72	0.79	0.87	0.90	0.98	1.00	1.00	—	
D: TOP OF CURBS TO TOP OF SUBGRADE	0.62	0.67	0.74	0.81	0.90	0.95	1.02	1.08	1.12	1.19	1.21	1.21	1.23	

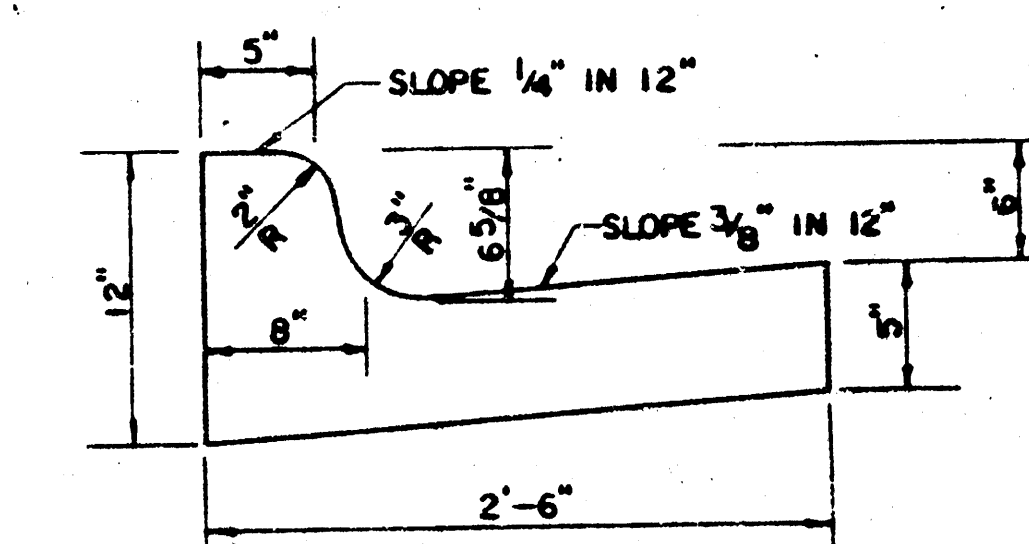


LONGITUDINAL JOINT DETAIL FOR VALLEY GUTTER

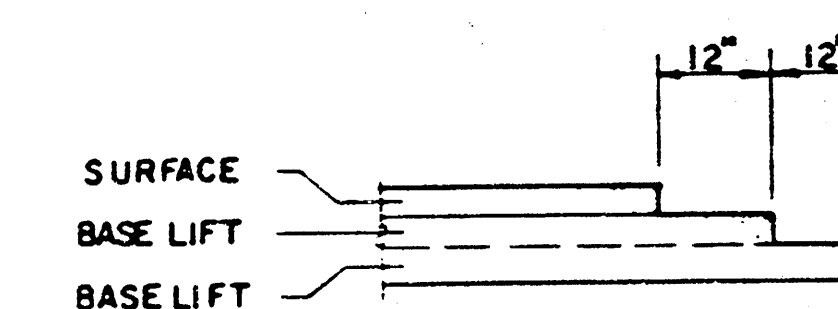
GENERAL NOTES

- 1) THE ASPHALTIC CONCRETE PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 7" ASPHALTIC CONCRETE (5" BITUMINOUS BASE).
- 2) THE BITUMINOUS BASE UNDER AND BEHIND THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 2 1/2" BITUMINOUS BASE.
- 3) 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.
- 4) BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR LINE AND GRADE.
- 5) 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.
- 6) 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.

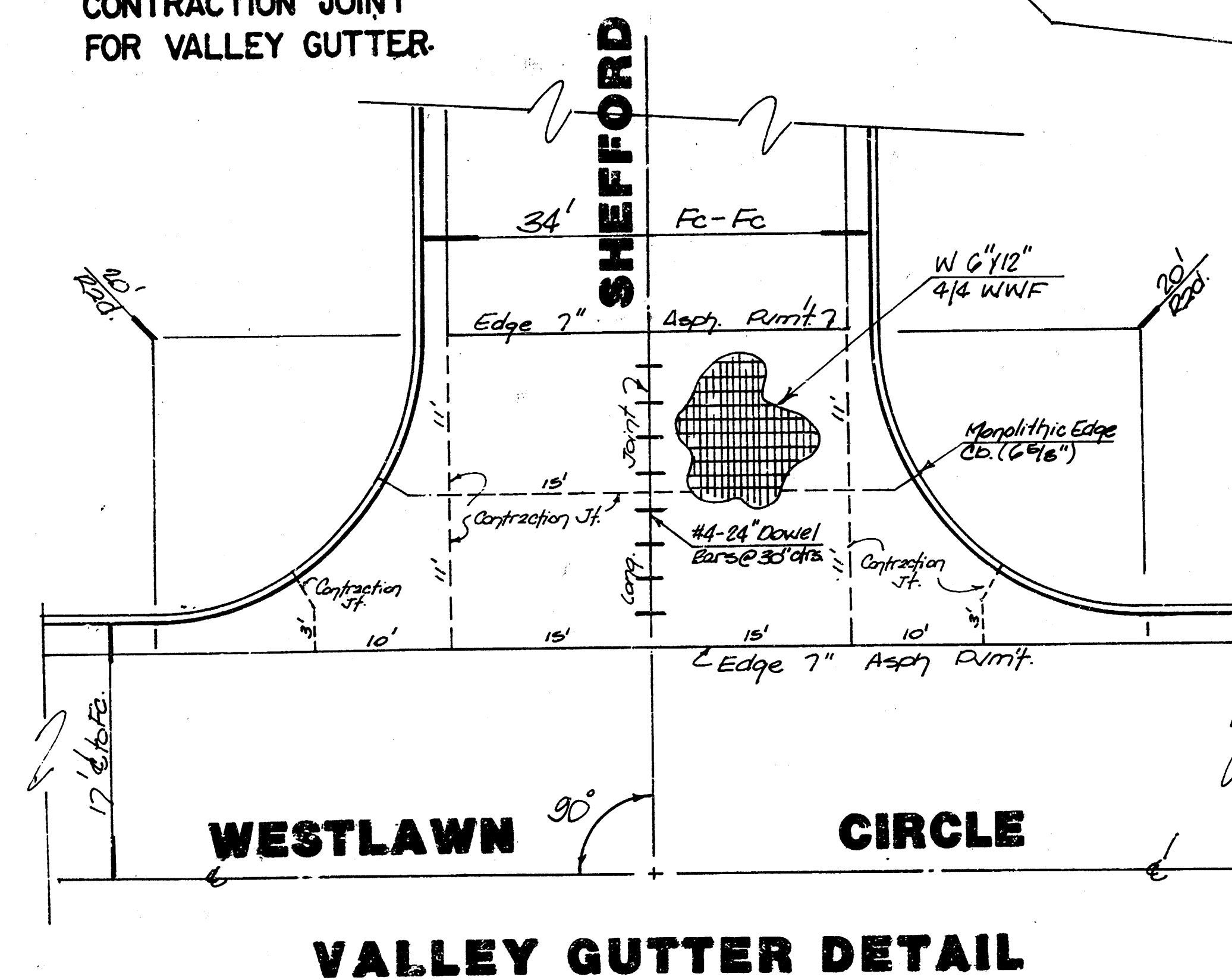
COMBINED CURB & GUTTER



TRANSVERSE CONSTRUCTION JOINTS



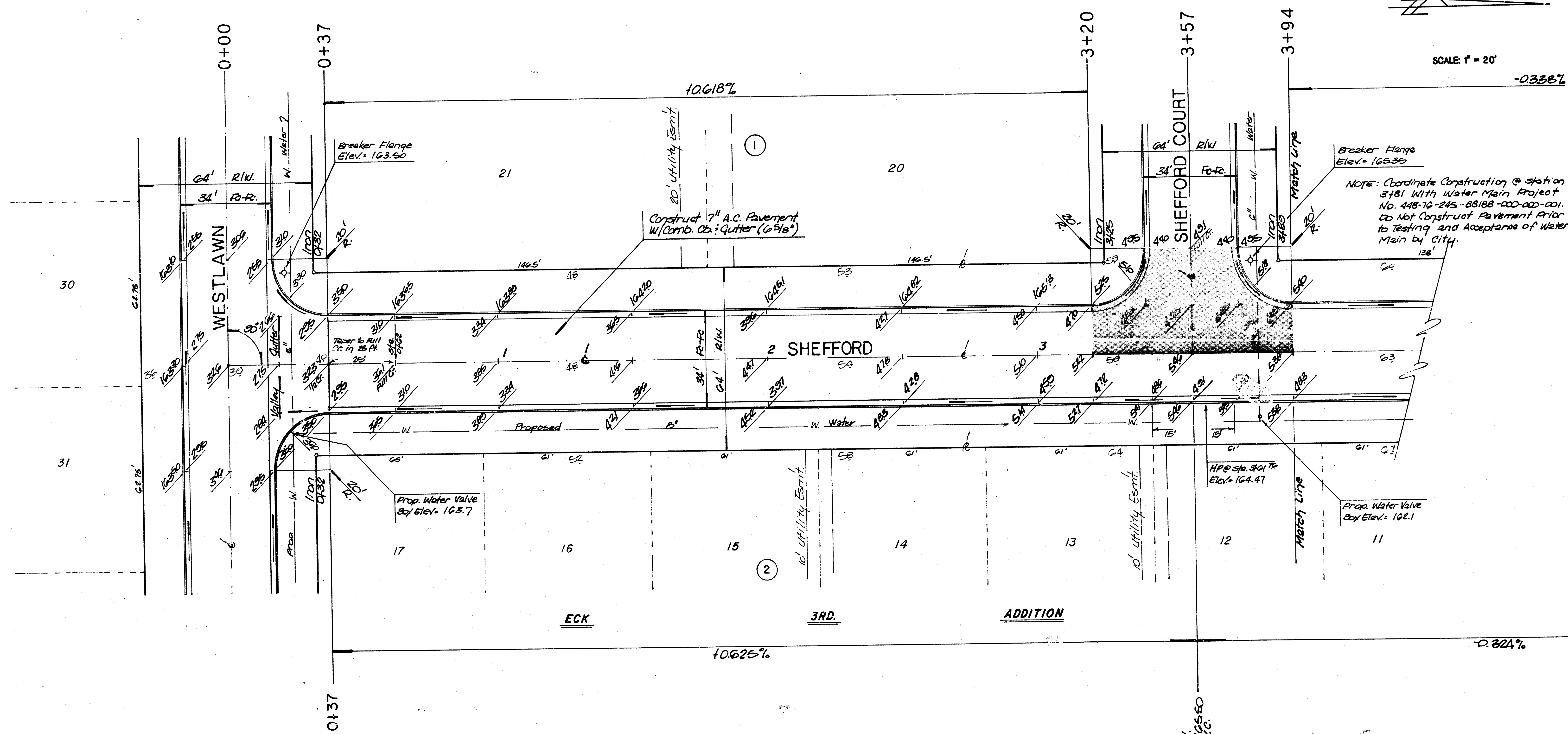
TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENT JOINS EXISTING FLEXIBLE BASE PAVEMENT AS SHOWN BY THE DETAIL. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION OF THE TRANSVERSE JOINT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS 7" ASPHALTIC CONCRETE (5" BITUMINOUS BASE).



VALLEY GUTTER DETAIL

7 INCH RESIDENTIAL ASPHALTIC CONCRETE PAVEMENT WITH 5 INCH BITUMINOUS BASE
CITY OF WICHITA, KANSAS
PROJECT NUMBER
472-76-245-81635-000-000-001

- BENCH MARKS**
1. City Disc. S.E. Corner of 119th St. West and 21st St. North. Elevation = 172.08
 2. Square Out in S.E. Corner of Concrete Box Culvert located 800 feet West of the Center Line of Shefford on 21st St. North. Elevation = 163.35
 3. Top of iron located in Thimble at the N.E. Corner of the N.W. 1/4, Section 7-27-W. Elevation = 165.91
 4. Square Out in N.E. Corner of Concrete Box Culvert located 75 feet West and 20 feet South of the S.W. Corner of Eck 3rd Addition. Elevation = 160.28



Earthwork Totals

Excavation = 500.1 cy	Manipulated Fill = 27.7 cy
Loose Fill = 232.6 cy	No Compacted Fill
Subgrade Manipulation = 8555 S.Y.	

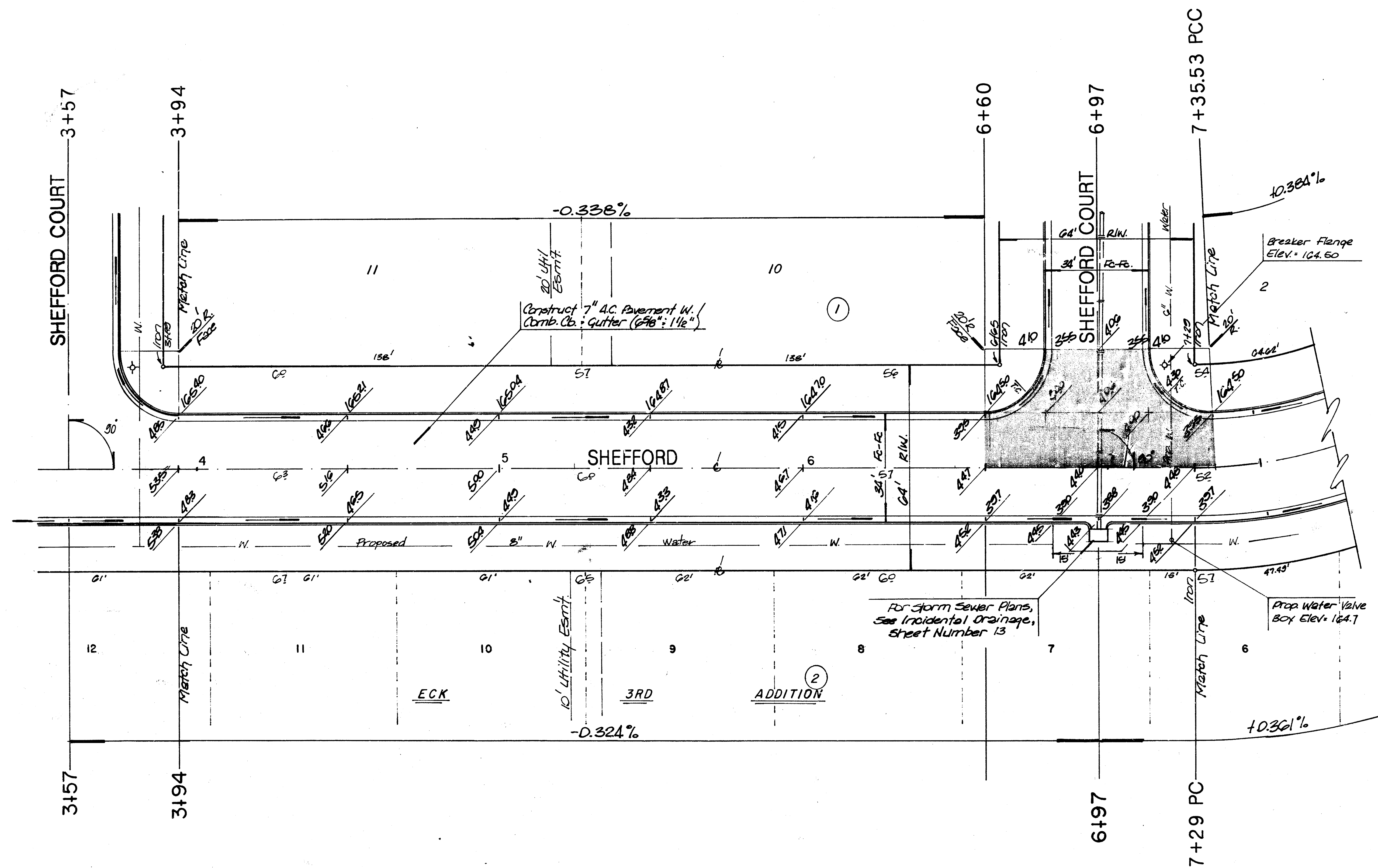
INTERSECTION QUANTITIES

S.Y.	Concrete Pavement
213.8	S.Y. 7" Asph. Conc. Pavement (5" Bituminous Base)
16.2	S.Y. 2 1/2" Bituminous Base
62.8	L.F. Combined Curb and Gutter
	L.F. Manolithic Edge Curb
	S.Y. 4" Manicured Ramp
	S.Y. 4" Walk
341.2	S.Y. Manipulation
	S.Y. V.G. Concrete and Asphaltic Conc. Base

BAUGHMAN COMPANY, P.A. Wichita, Kansas		
SHEFFORD		
472-76-245-81635-000-000-001		
DATE	SCALE	SHEET
	1" = 20'	3/18

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- BENCH MARKS**
1. City Disc, S.E. Corner of 119th St. West and 21st St. North, Elevation = 172.08
 2. Square Out in S.E. Corner of Concrete Box Culvert located 800 feet West of the Center Line of Shefford on 21st St. North. Elevation = 163.36
 3. Top of iron located in Thistle at the N.E. Corner of the N.W. 1/4, Section 7-27-1W. Elevation = 165.81
 4. Square Out in N.E. Corner of Concrete Box Culvert located 75 feet West and 20 feet South of the S.W. Corner of Bck 3rd Addition. Elevation = 160.28



NOTE: Coordinate Construction @ Station 7+21
With Water Main Project Number
448-76-245-88188-000-000-001. Do
Not Construct Pavement Prior to
Testing & Acceptance of Water
Main by City.

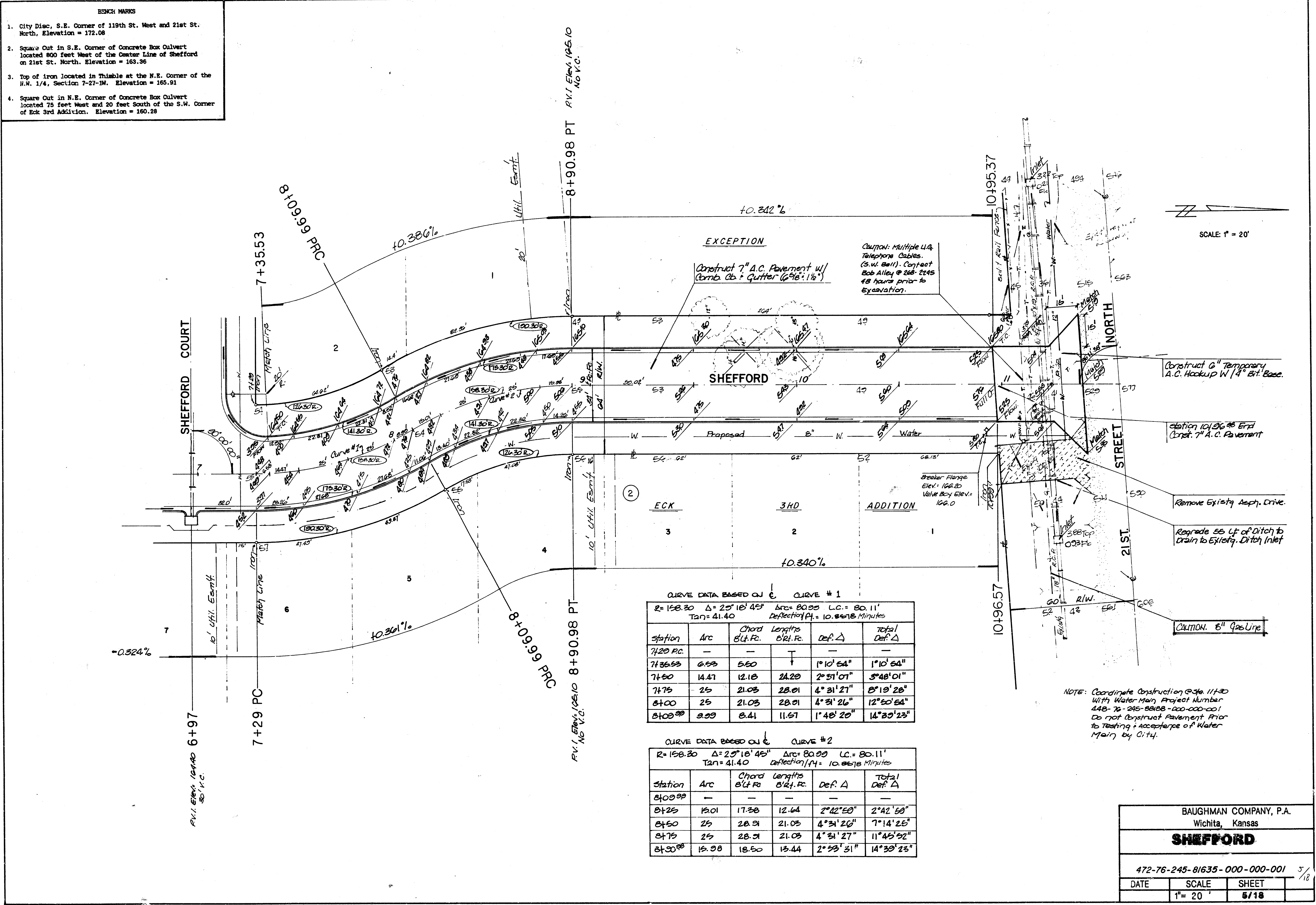
INTERSECTION QUANTITIES

222'	S.V.	Concrete Pavement
161'	S.V.	7" Asphalt Conc. Pavement (5" Bituminous Base)
161'	S.V.	4 1/2" Bituminous Base
161'	S.V.	L.F. Combined Curb and Gutter
		L.F. Miscellaneous Edge Curb
		S.F. 4" Wheelchair Ramp
		S.F. 4" Walk
244'	S.V.	Manipulation
	S.V. V.G.	Concrete and Asphaltic Conc. Base

BAUGHMAN COMPANY, P.A. Wichita, Kansas		
SHEFFORD		
472-76-245-81635-000-000-001		
DATE	SCALE	SHEET
	1" = 20'	4/18

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- BENCH MARKS**
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 2. Square Cut in S.E. Corner of Concrete Box Culvert located 800 feet West of the Center Line of Shefford on 21st St. North, Elevation = 163.36
 3. Top of iron located in Thimble at the N.E. Corner of the H.W. 1/4, Section 7-27-1W, Elevation = 165.91
 4. Square Out in N.E. Corner of Concrete Box Culvert located 75 feet West and 20 feet South of the S.W. Corner of Eek 3rd Addition, Elevation = 160.28



CURVE DATA BASED ON CURVE #1

R = 158.30 Δ = 25° 18' 45" Arc = 80.93 LC = 80.11'
TAN = 41.40 Deflection/Pt = 10.8878 Minutes

Station	Arc	Chord	Length	Def. Δ	Total
		St. R.	St. R.		Def. Δ
7+29 PC	—	—	—	—	—
7+36.53	6.53	5.50	—	1° 10' 54"	1° 10' 54"
7+50	14.47	12.18	24.29	2° 51' 01"	3° 48' 01"
7+75	25	21.03	28.91	4° 31' 27"	8° 19' 28"
8+00	25	21.03	28.91	4° 31' 26"	12° 50' 54"
8+09.99	9.99	8.41	11.67	1° 48' 20"	14° 39' 23"

CURVE DATA BASED ON CURVE #2

R = 158.30 Δ = 25° 18' 45" Arc = 80.93 LC = 80.11'
TAN = 41.40 Deflection/Pt = 10.8878 Minutes

Station	Arc	Chord	Length	Def. Δ	Total
		St. R.	St. R.		Def. Δ
8+09.99	—	—	—	—	—
8+25	15.01	17.38	12.64	2° 42' 50"	2° 42' 50"
8+50	25	21.03	21.03	4° 31' 26"	7° 14' 25"
8+75	25	21.03	21.03	4° 31' 27"	11° 45' 52"
8+90.98	15.98	18.50	13.44	2° 53' 31"	14° 39' 23"

BAUGHMAN COMPANY, P.A.
Wichita, Kansas

SHEFFORD

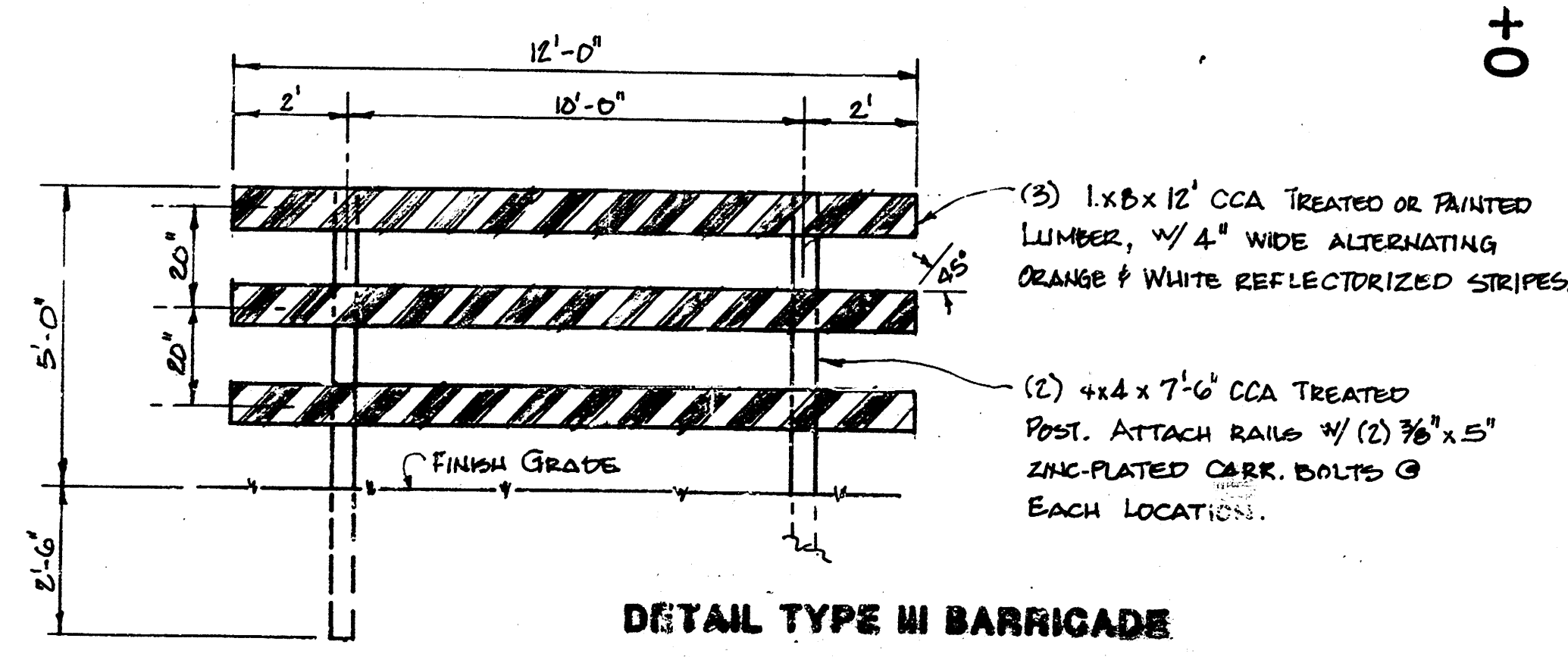
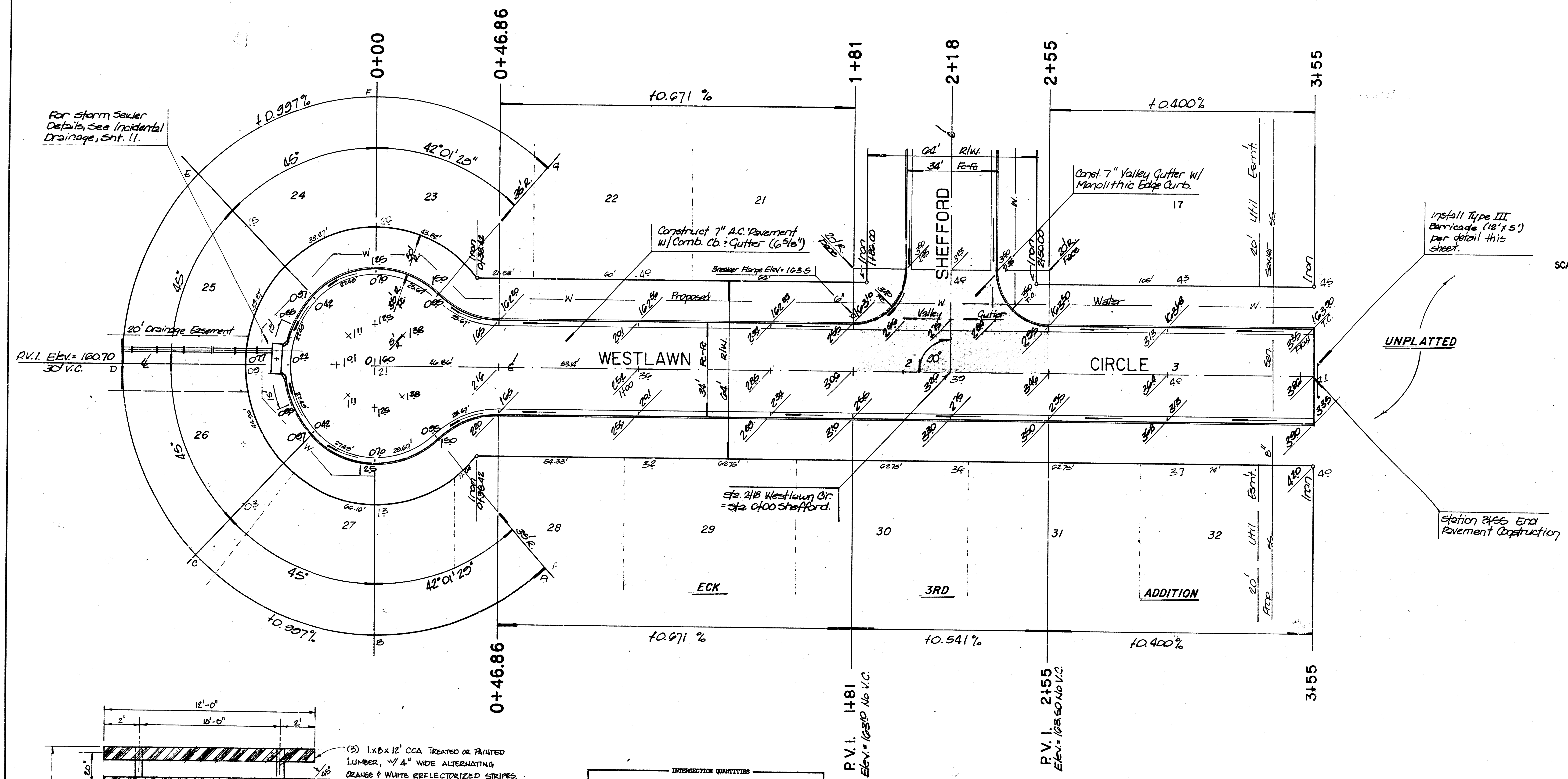
472-76-245-8468-000-000-001 5/18

DATE	SCALE	SHEET
	1" = 20'	5/18

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- BENCH MARKS**
1. City Disc, S.E. Corner of 119th St. West and 21st St. North, Elevation = 172.68
 2. Square Cut in S.E. Corner of Concrete Box Culvert located 800 feet West of the Center Line of Shefford on 21st St. North, Elevation = 163.35
 3. Top of iron located in Thimble at the N.E. Corner of the F.W. 1/4, Section 7-27-1W, Elevation = 165.91
 4. Square Cut in N.E. Corner of Concrete Box Culvert located 75 feet West and 20 feet South of the S.W. Corner of Eck 3rd Addition, Elevation = 180.26

Notes: Coordinate Construction of Shefford Intersection with Water Main, Proj. No. 448-76-245-88/88-000-000-001, And Lateral 287, SW 1, Proj. No. 468-76-245-816/88-000-000-001. Do Not Construct Pavement Prior to Testing and Acceptance of these Projects by the City.



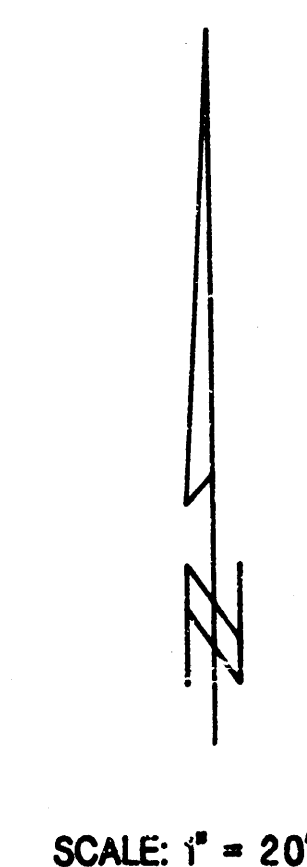
INTERPRETATION QUANTITIES

123	S.Y.	Concrete Pavement
123	S.Y.	7\"
123	S.Y.	Asph. Conc. Pavement (5\"
123	S.Y.	Bituminous Base
123	S.Y.	Combined Curb and Gutter
123	S.Y.	Monolithic Edge Curb
123	S.Y.	4\"
123	S.Y.	Wheelchair Ramp
123	S.Y.	4\"
123	S.Y.	Manhole
123	S.Y.	5\"
123	S.Y.	Concrete and 2\"

BAUGHMAN COMPANY, P.A.			
Wichita, Kansas			
WESTLAWN CIRCLE			
472-76-245-81635-000-000-001			
DATE	SCALE	SHEET	
	1\"	6/18	

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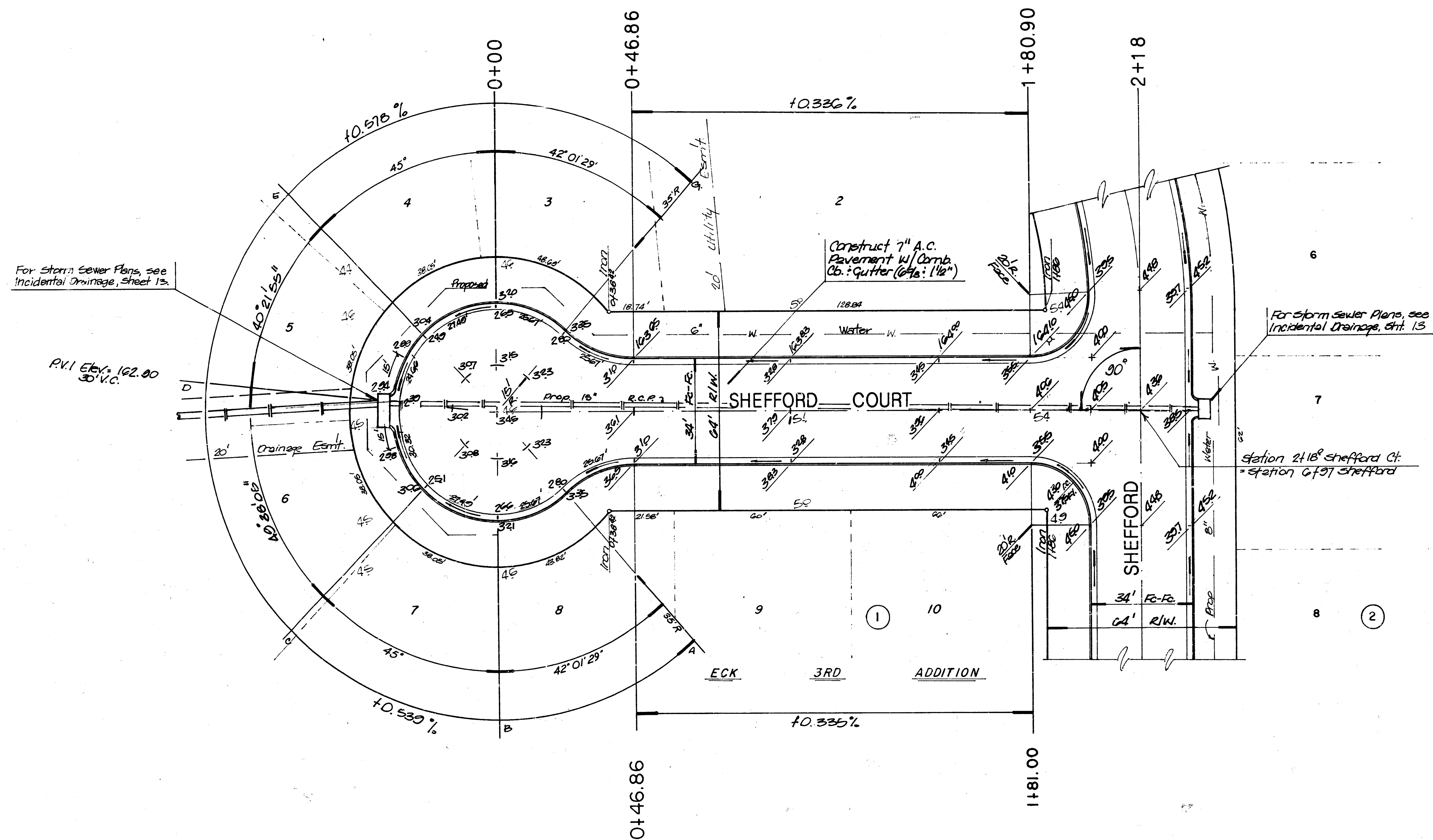
1. City Disc. S.E. Corner of 119th St. West and 21st St. North. Elevation = 172.06
2. Square Cut in S.E. Corner of Concrete Box Culvert located 800 feet West of the Center Line of Shefford on 21st St. North. Elevation = 163.36
3. Top of Iron located in Thimble at the N.E. Corner of the N.W. 1/4, Section 7-27-1W. Elevation = 168.91
4. Square Cut in N.E. Corner of Concrete Box Culvert located 75 feet West and 20 feet South of the S.W. Corner of Eck 3rd Addition. Elevation = 160.28



BAUGHMAN COMPANY, P.A. Wichita, Kansas			
SHEFFORD CT.			
472-76-245-81635-000-000-001			
DATE	SCALE	SHEET	
	1"=20'	7/18	

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- BENCH MARKS**
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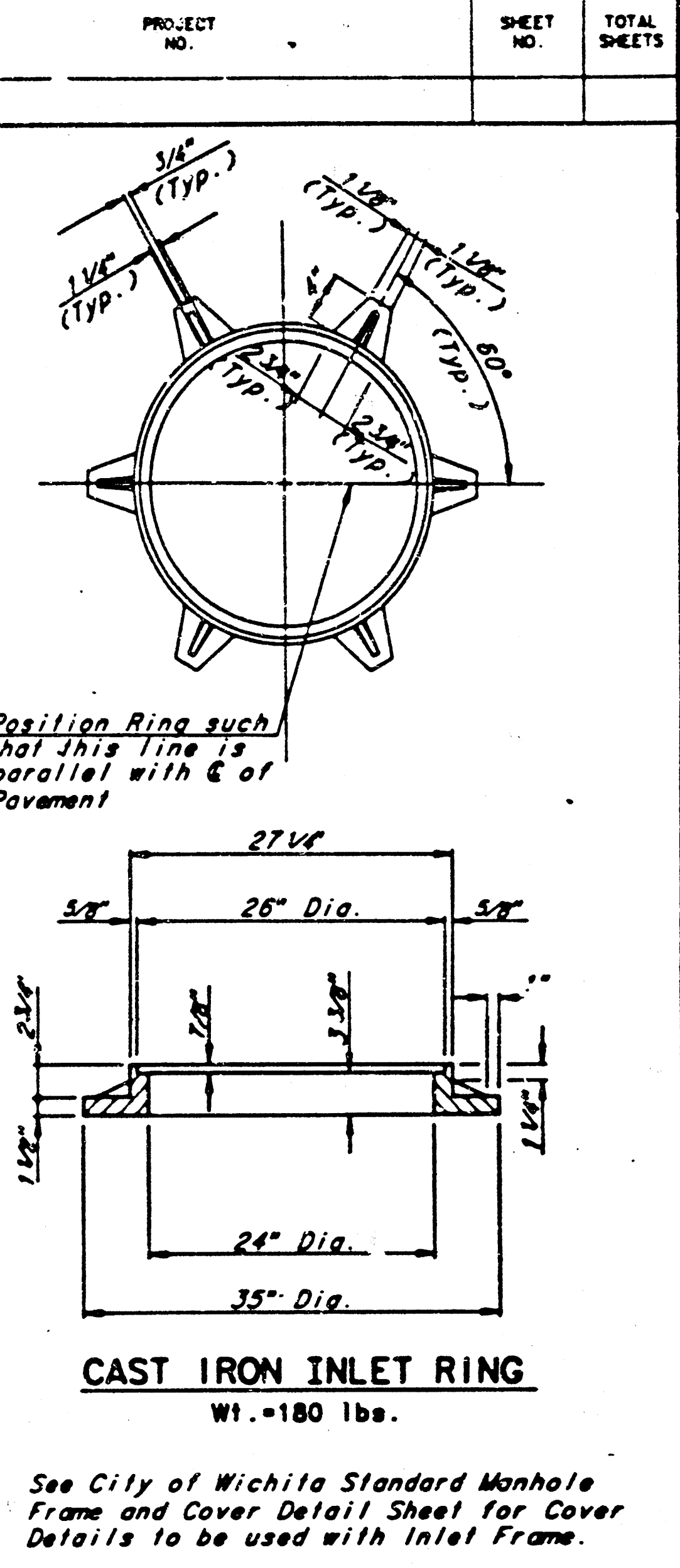
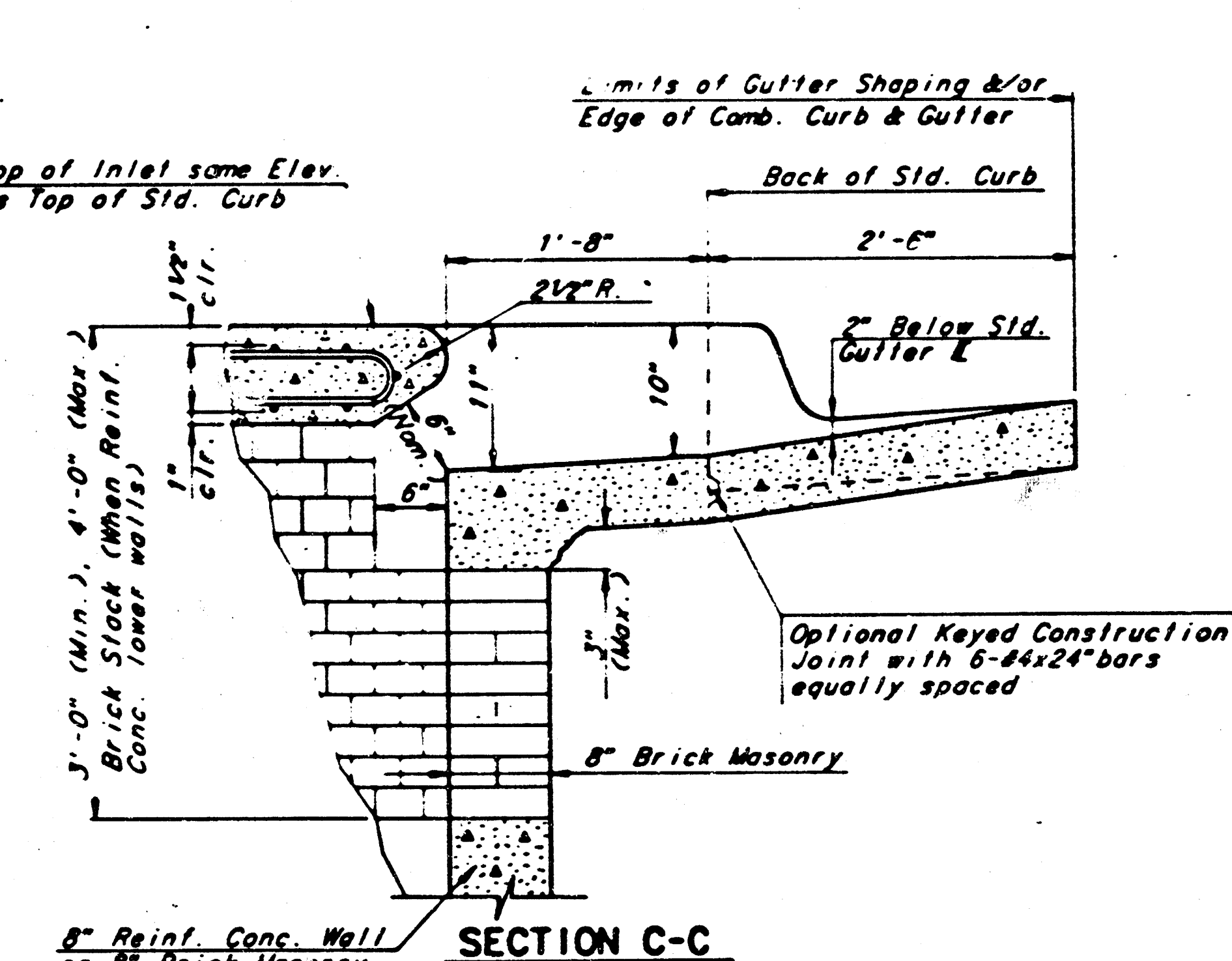
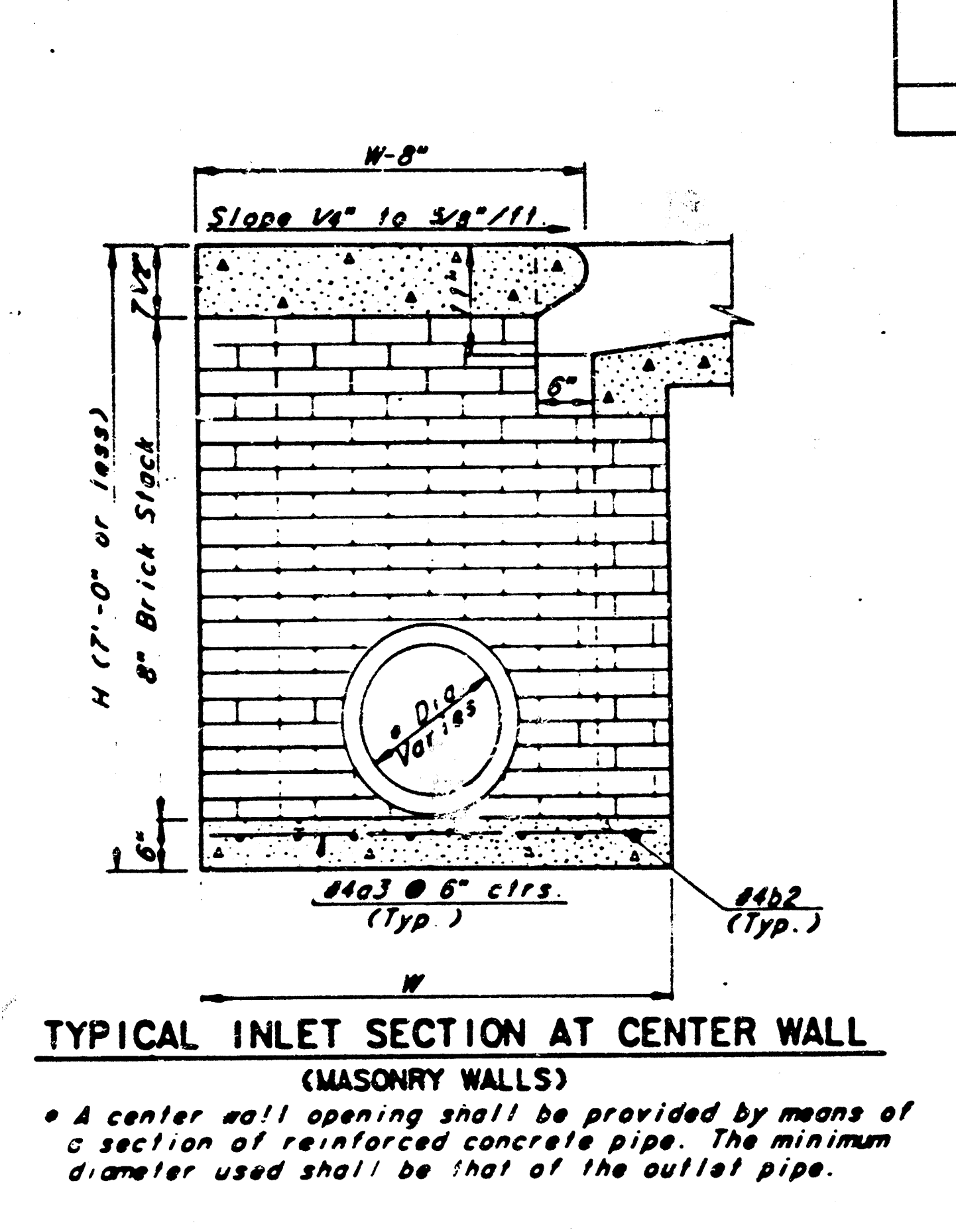
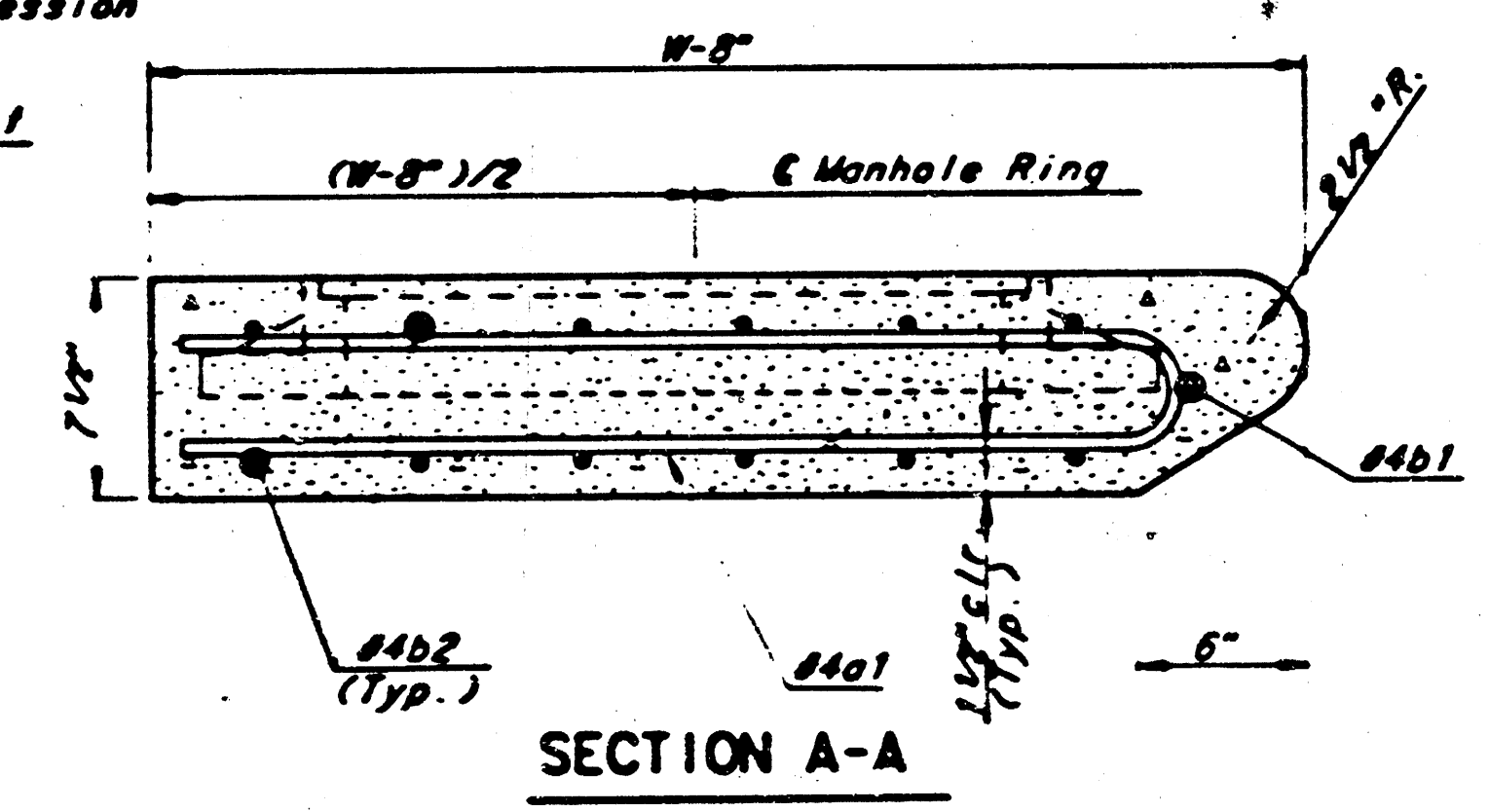
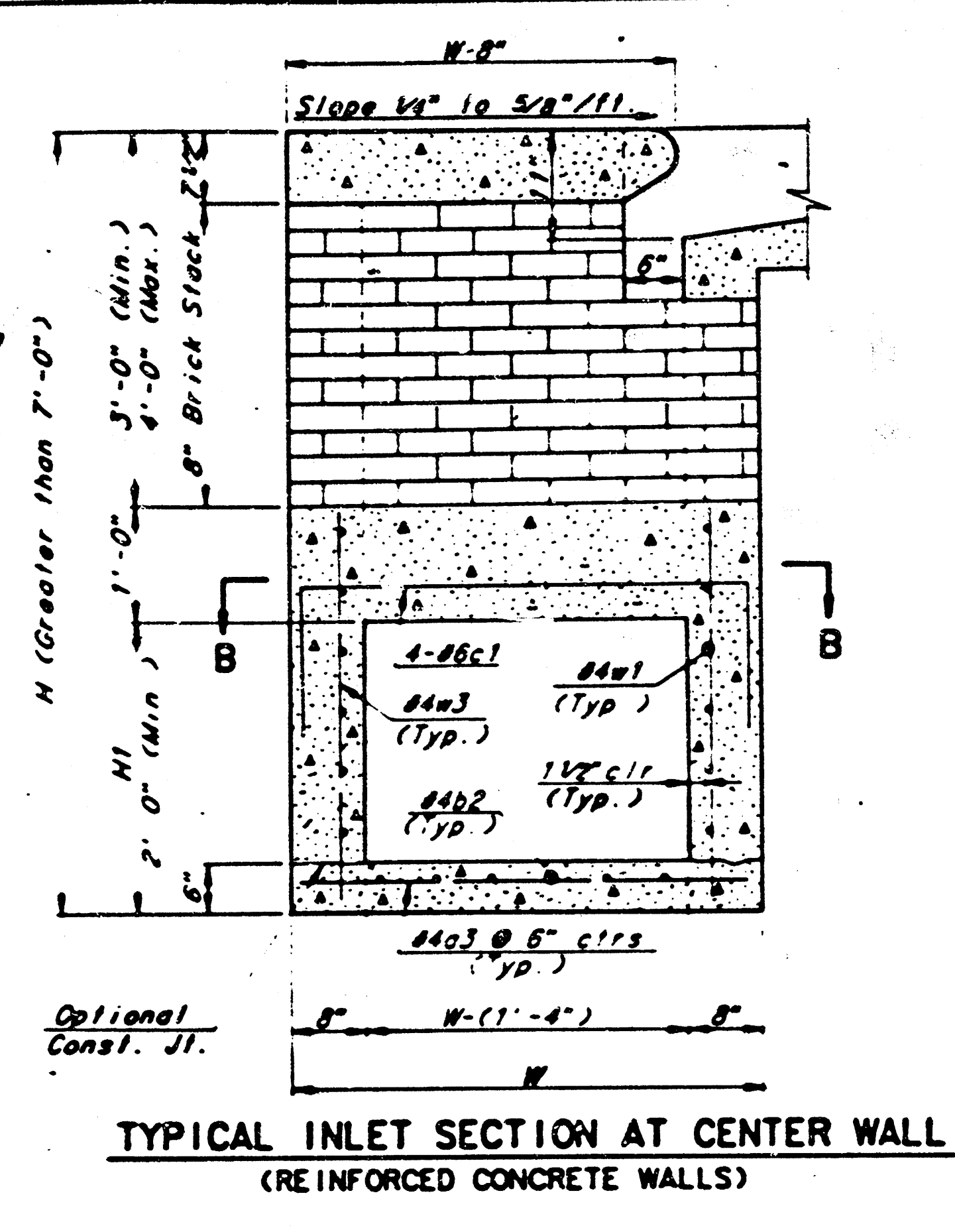
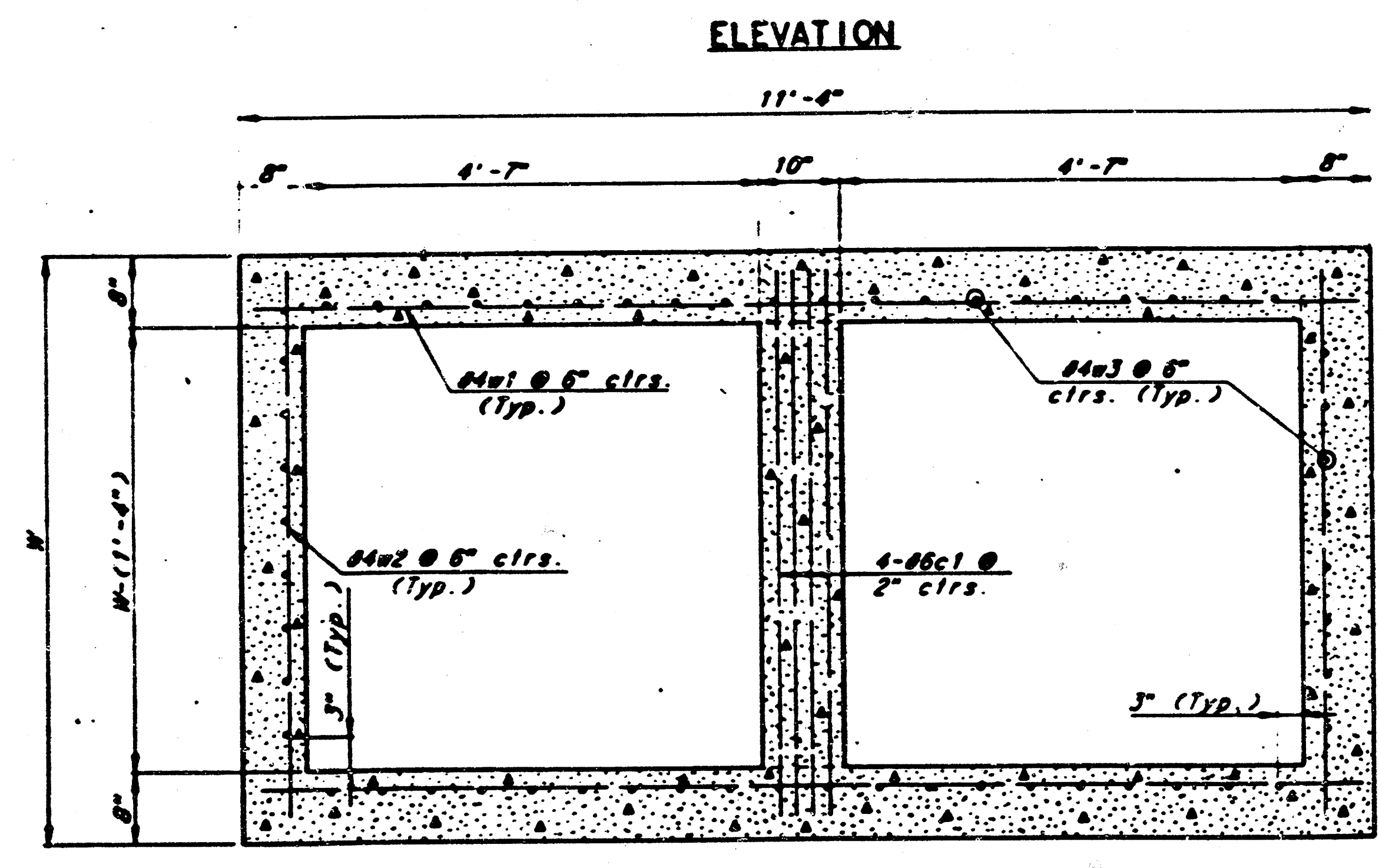
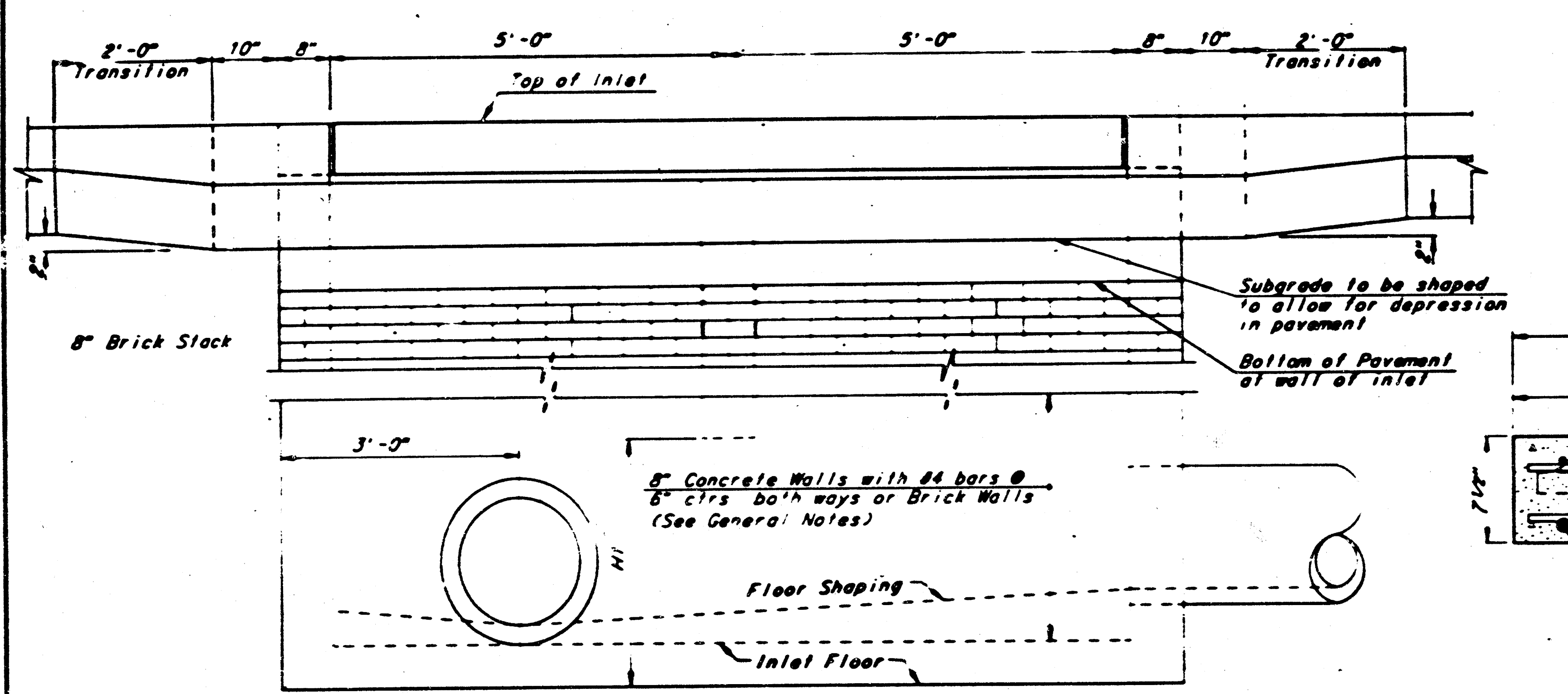
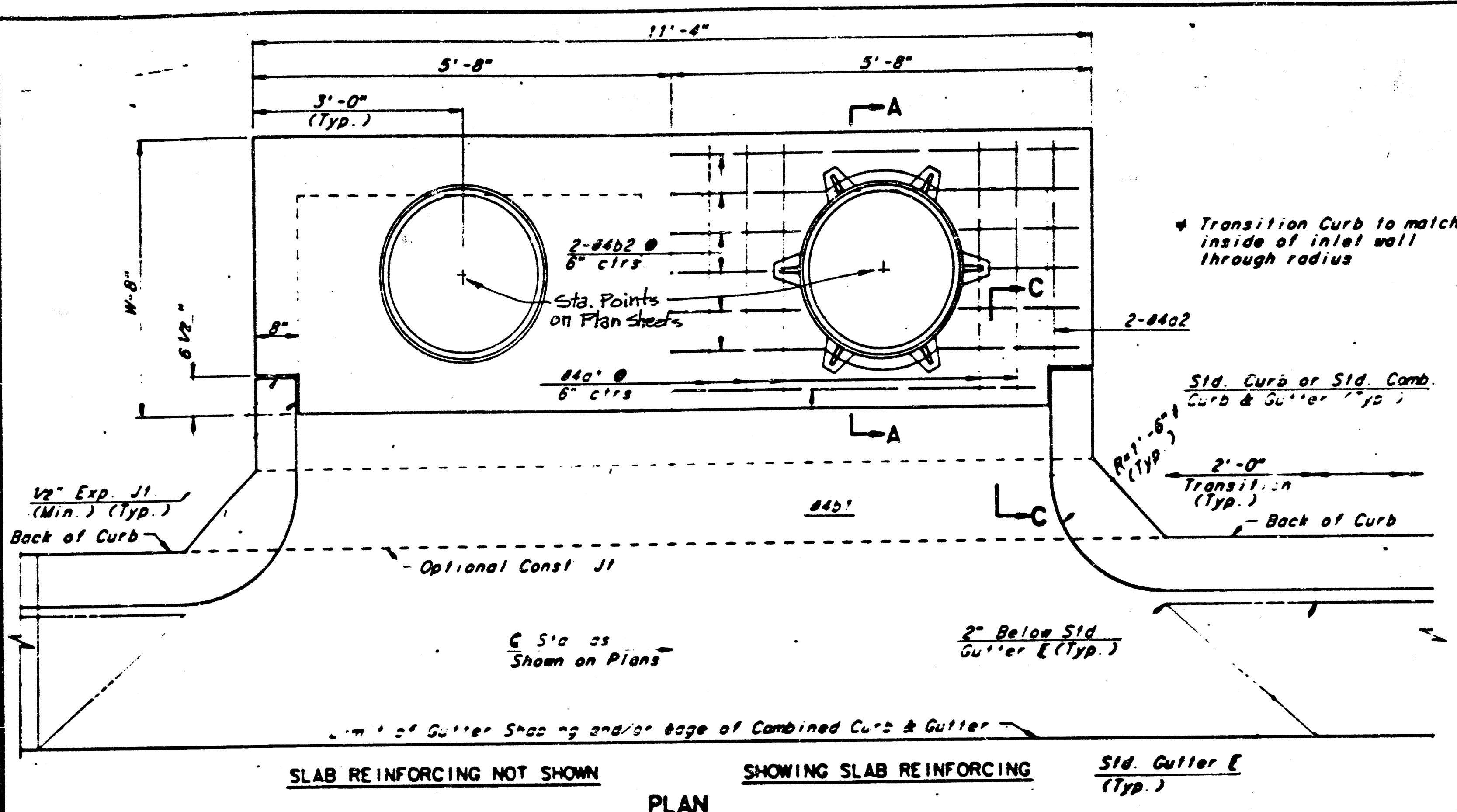


SCALE: 1" = 20'

BAUGHMAN COMPANY, P.A. Wichita, Kansas			
SHEFFORD CT.			
472-76-245-81635-000-000-001			
DATE	SCALE	SHEET	
	1"=20'	8/18	

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- GENERAL NOTES**
- THE CONTRACTOR SHALL BE REQUIRED TO CONSTRUCT 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP ON THIS INLET WHEN W=6'-4" OR LESS AND H=7'-0" OR LESS. WHEN W IS GREATER THAN 6'-4" AND H IS LESS THAN 7'-0" THE OUTSIDE INLET WALLS BELOW THE BRICK STACK SHALL BE REINFORCED CONCRETE CONSTRUCTION AND THE CENTER WALL SHALL BE OF MASONRY CONSTRUCTION AS SHOWN FOR THE MASONRY WALL OPTION.
 - 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.
 - 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.
 - INLET TOP REINFORCING SHALL BE SPACED ON 6" MAX. CENTERS. INLET LIDS SHALL BE NOTCHED OUT AS INDICATED TO FACILITATE CONSTRUCTION OF CURB. BARS IN INLET TOP TO BE FIELD BENT OR CUT TO CLEAR MANHOLE RING.
 - THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.

SLAB AND FLOOR REINFORCING									
MARK	SIZE	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
a1	#4	13	6'-7 1/4"	13	8'-7 1/4"	13	10'-7 1/4"	13	12'-7 1/4"
a2	#4	2	8'-0"	2	8'-0"	2	10'-0"	2	14'-0"
a3	#4	20	4'-1"	20	5'-1"	20	6'-1"	20	7'-1"
b1	#4	1	9'-8"	1	9'-8"	1	9'-8"	1	9'-8"
b2	#4	18	11'-1"	24	11'-1"	30	11'-1"	36	11'-1"

WALL REINFORCING									
MARK	SIZE	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
c1	#6	4	6'-1"	4	7'-1"	4	8'-1"	4	10'-1"
w1	#4	0	11'-1"	0	11'-1"	0	11'-1"	0	11'-1"
w2	#4	0	4'-1"	0	5'-1"	0	6'-1"	0	7'-1"
w3	#4	0	0	0	0	0	0	0	0

* Field bend or cut Reinforcing as required for clearance
 ① 4(HI-6") + 4 (HI-6") Rounded down to nearest 0.5"
 ② 40*(W - 16") ③ HI*(8")

STANDARD TYPE 1A CURB INLET
 INLET OPENING = 6" x 10'-0"

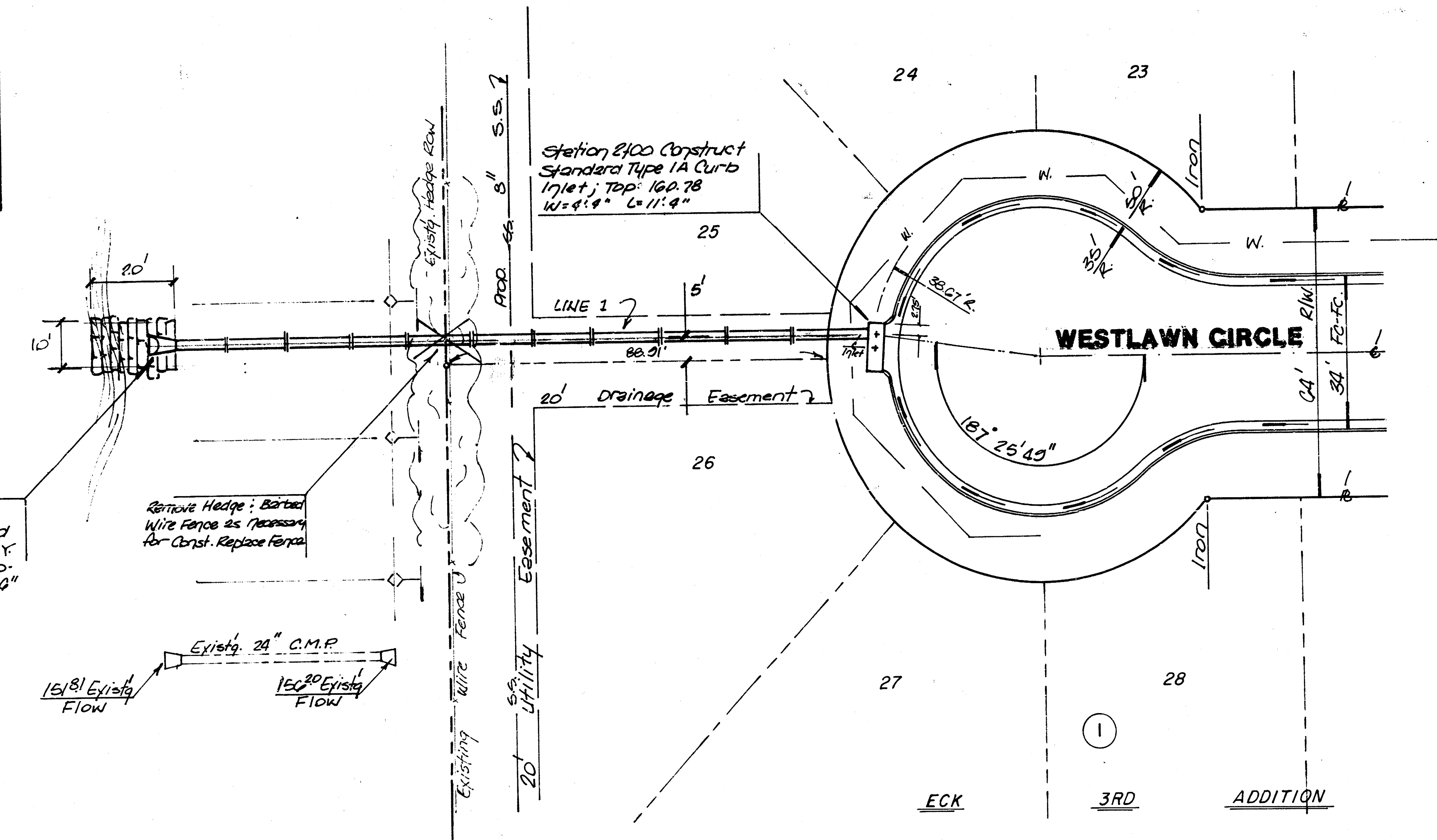
PROJECT NO.
 472-76-245-1038-000-001
 WICHITA, KANSAS

Designed by: BER, KJS, LMS
 Drawn by: JOP

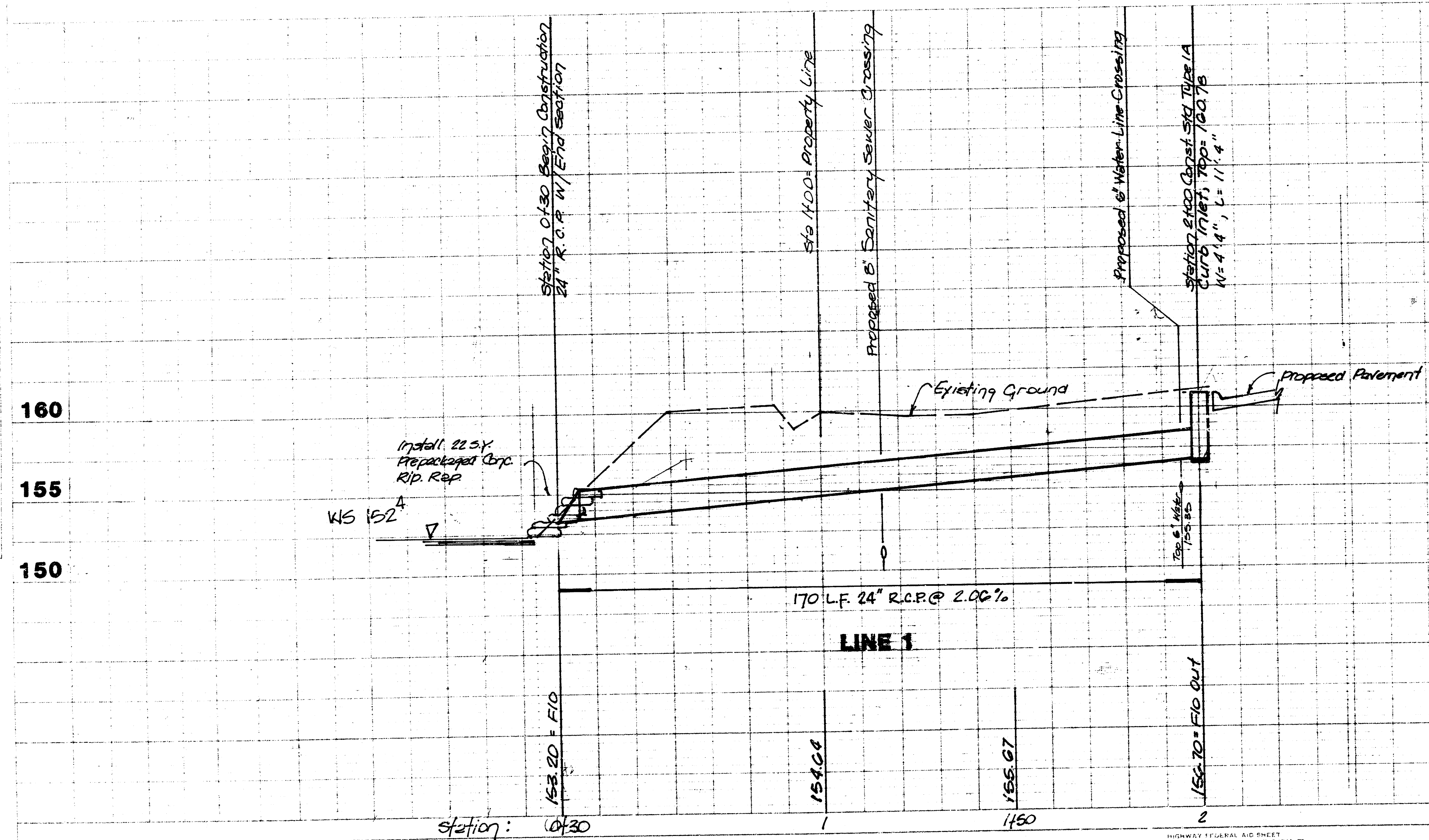
Checked by: LMS
 Date: Nov., 1984

10/18

- BENCH MARKS**
1. City Disc, S.E. Corner of 119th St. West and 21st St. North. Elevation = 172.08
 2. Square Out in S.E. Corner of Concrete Box Culvert located 800 feet West of the Center Line of Shefford on 21st St. North. Elevation = 163.36
 3. Top of iron located in Thimble at the N.E. Corner of the N.W. 1/4, Section 7-27-1W. Elevation = 165.81
 4. Square Out in N.E. Corner of Concrete Box Culvert located 75 feet West and 20 feet South of the S.W. Corner of Eck 3rd Addition. Elevation = 160.28



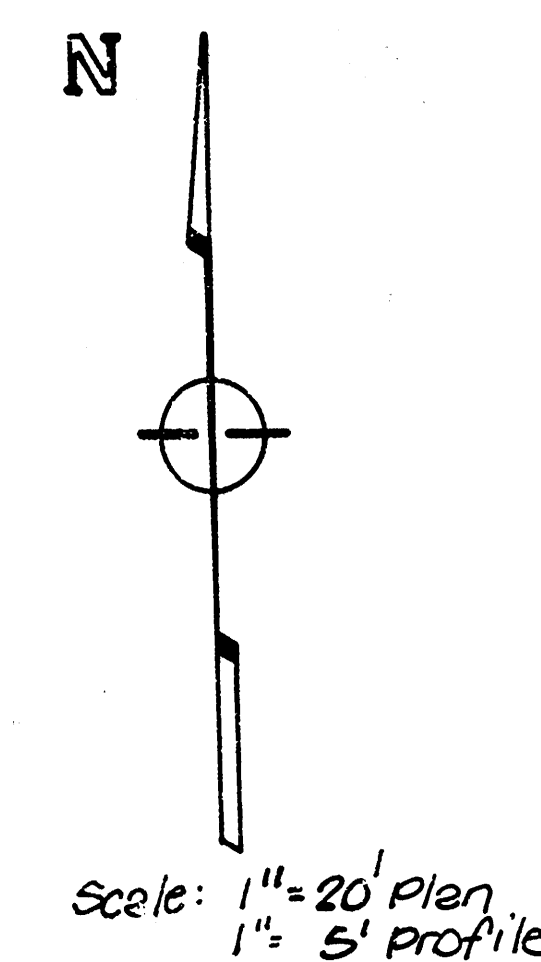
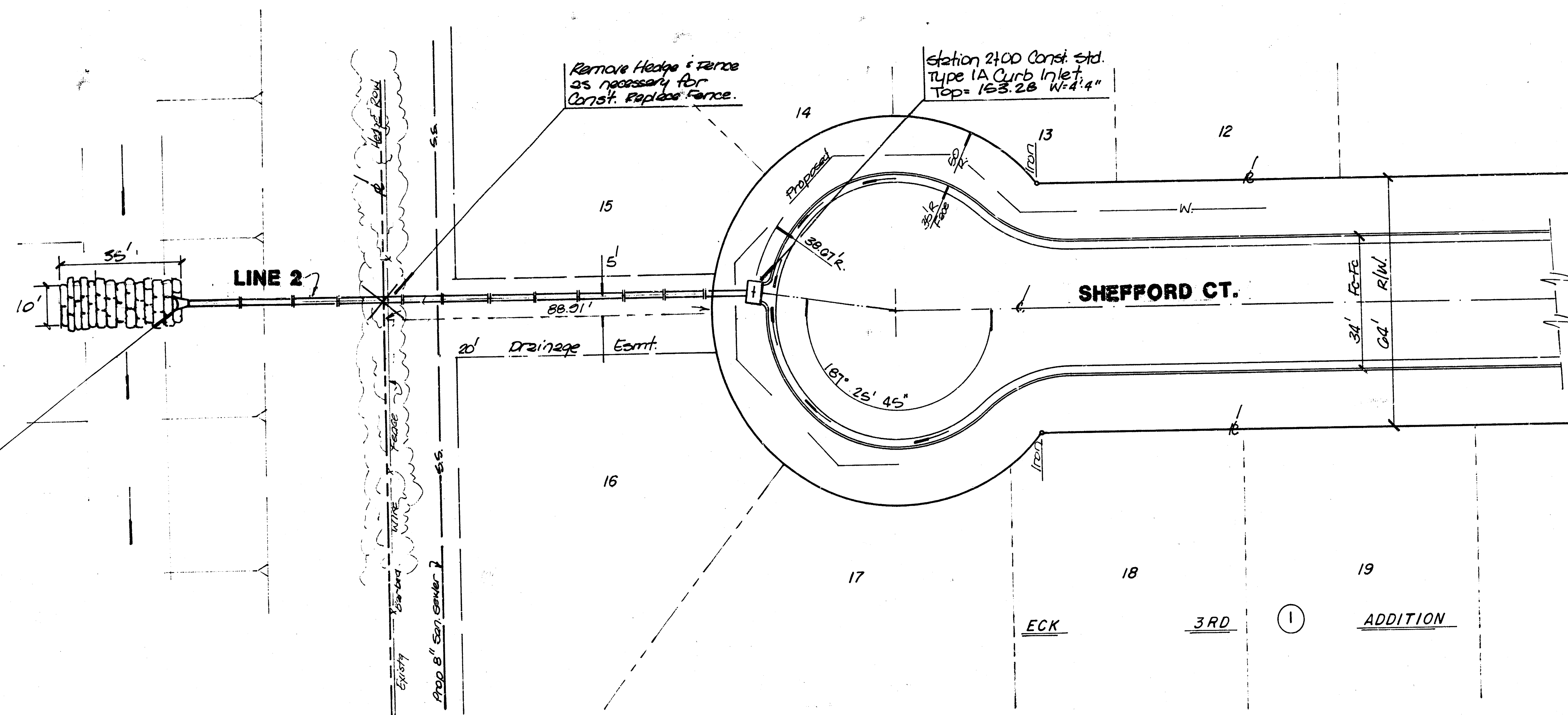
Note: Coordinate Construction with Sanitary Sewer Lateral 257, S.W. 1, and Water Main Proj. No. 445-76-245-55185-000-000-001 Do Not Construct storm Sewer Prior to testing & Acceptance of Water Main and Sanitary Sewer by City.



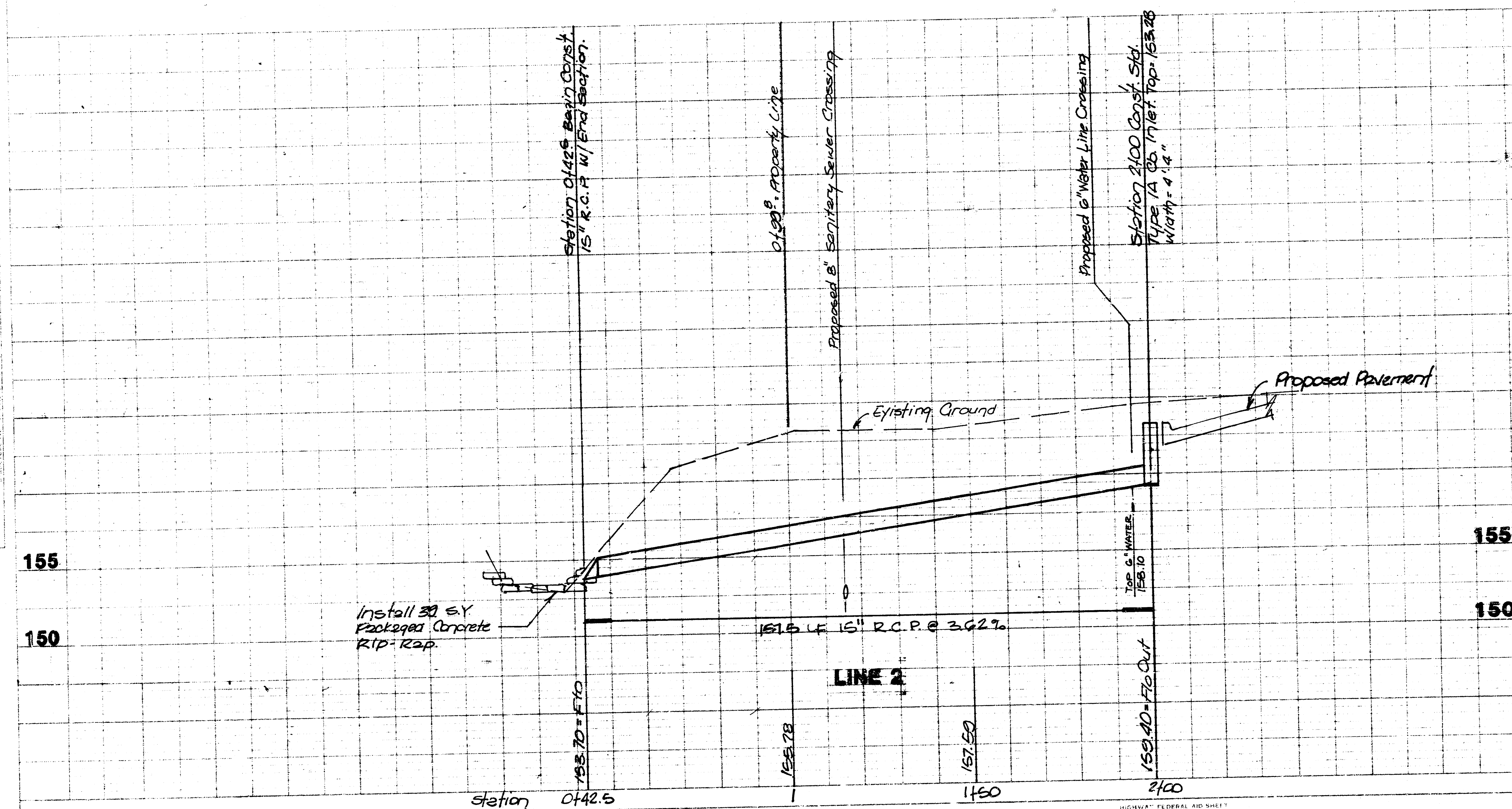
BAUGHMAN COMPANY, P.A.			
Wichita, Kansas			
INCIDENTAL DRAINAGE			
PROJECT NO.			
472-76-245-5185-000-000-001			
DATE	SCALE	SHEET	
	1"=20'	11/18	11/18

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- BENCH MARKS**
1. City Disc, S.E. Corner of 119th St. West and 21st St. North, Elevation = 172.08
 2. Square Out in S.E. Corner of Concrete Box Culvert located 800 feet West of the Center Line of Sheppard on 21st St. North. Elevation = 163.36
 3. Top of Iron located in Thimble at the N.E. Corner of the N.W. 1/4, Section 7-27-1W. Elevation = 165.91
 4. Square Out in N.E. Corner of Concrete Box Culvert located 75 feet West and 20 feet South of the S.W. Corner of Eck 3rd Addition. Elevation = 160.28



NOTE: Coordinate Construction with Sanitary Sewer Lateral #251, S.W.I., and Water Line Proj. No. 448-76-245-00100-001. Do not Construct Storm Sewer Prior to Testing & Acceptance of Water Main & San. Sewer by City.



BAUGHMAN COMPANY, P.A. Wichita, Kansas		
INCIDENTAL DRAINAGE		
PROJECT NO.		
472-76-245-01635-000-000-001		
DATE	SCALE	SHEET
	1"=20'	12/18

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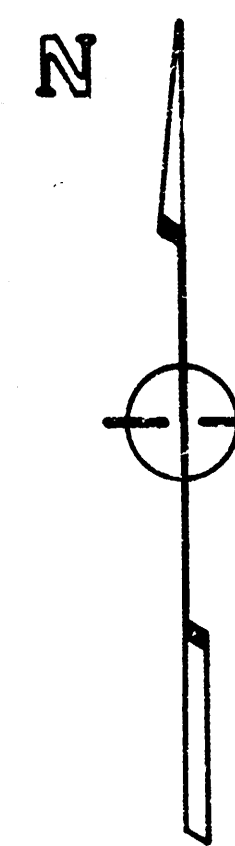
- BENCH MARKS**
1. City Disc, S.E. Corner of 119th St. West and 21st St. North, Elevation = 172.08
 2. Square Out in S.E. Corner of Concrete Box Culvert located 800 feet West of the Center Line of Shefford on 21st St. North. Elevation = 163.36
 3. Top of Iron located in Thimble at the N.E. Corner of the N.W. 1/4, Section 7-27-1W. Elevation = 165.91
 4. Square Out in N.E. Corner of Concrete Box Culvert located 75 feet West and 20 feet South of the S.W. Corner of Eck 3rd Addition. Elevation = 160.28

Station 0+41.0' Begin Const. 24" R.C.P. Install 22.5Y Packaged Corp. Rip-Rap as shown on 6" slope filter course.

Remove Hedge: fence as necessary for Const. Replace Fence.

Station 4+00 Const. Std. Type 1A 20" Inlet, Top = 162.74 W 4' 4" x 11' 4"

Note: Coordinate Construction with Water Main Project No. 448-76-245-BB168-000-000-001 and Cat 257 S.W.I. Do not Construct Storm Sewer Prior to Testing and Approval of Water Main: San. Sewer by City.



Scale: 1" = 20' Plan
1" = 5' Profile

BAUGHMAN COMPANY, P.A. Wichita, Kansas			
INCIDENTAL DRAINAGE			
PROJECT NO. 472-76-245-81635-000-000-001			
DATE	SCALE	SHEET	
	1" = 20'	13/18	

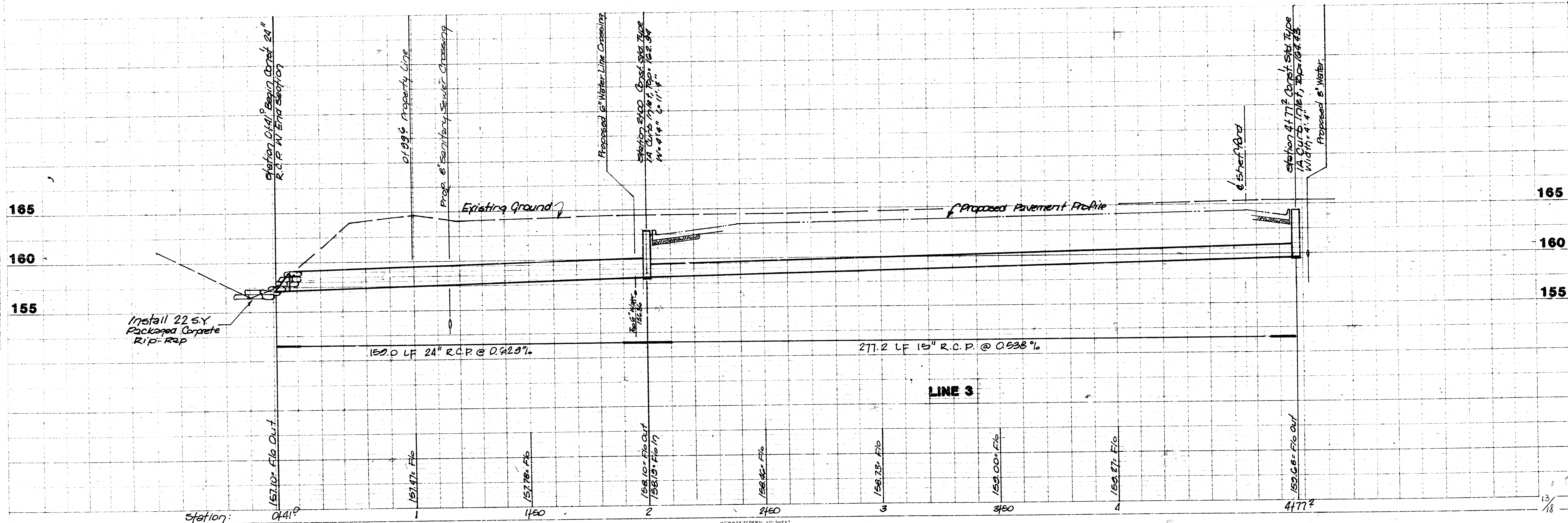
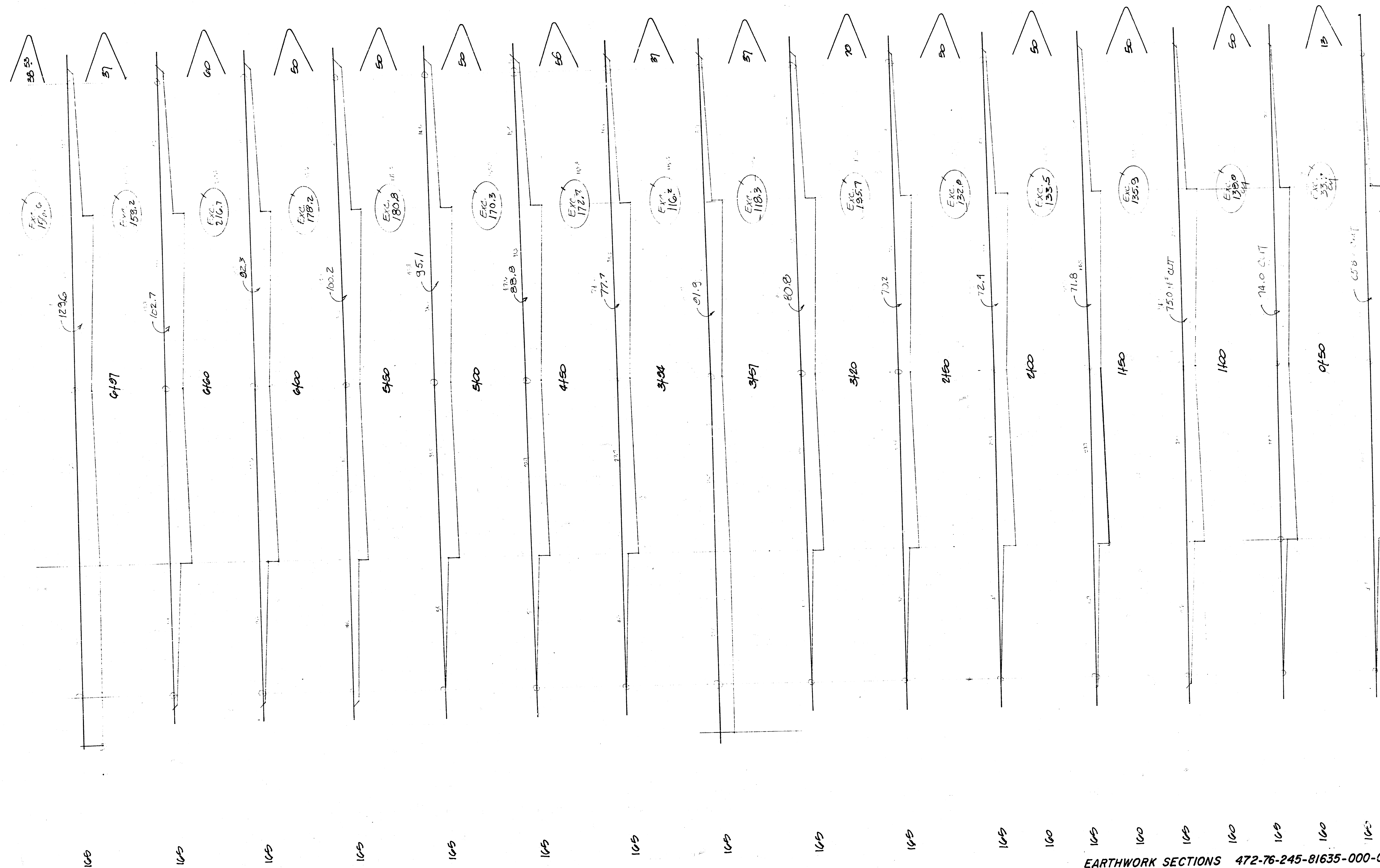


PLATE 1-SINGLE PLAN AND PROFILE FULL LINE
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DATE 4-30-87

102



EARTHWORK SECTIONS 472-76-245-81635-000-000-001

14/18

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EXCAVATION 5007.1' 232.6' C.Y.
 EMBANKMENT 232.6' 232.6' C.Y.
 TOTAL 5007.1' 465.2' C.Y.

0137

SHEFFORD

30

20

10

0

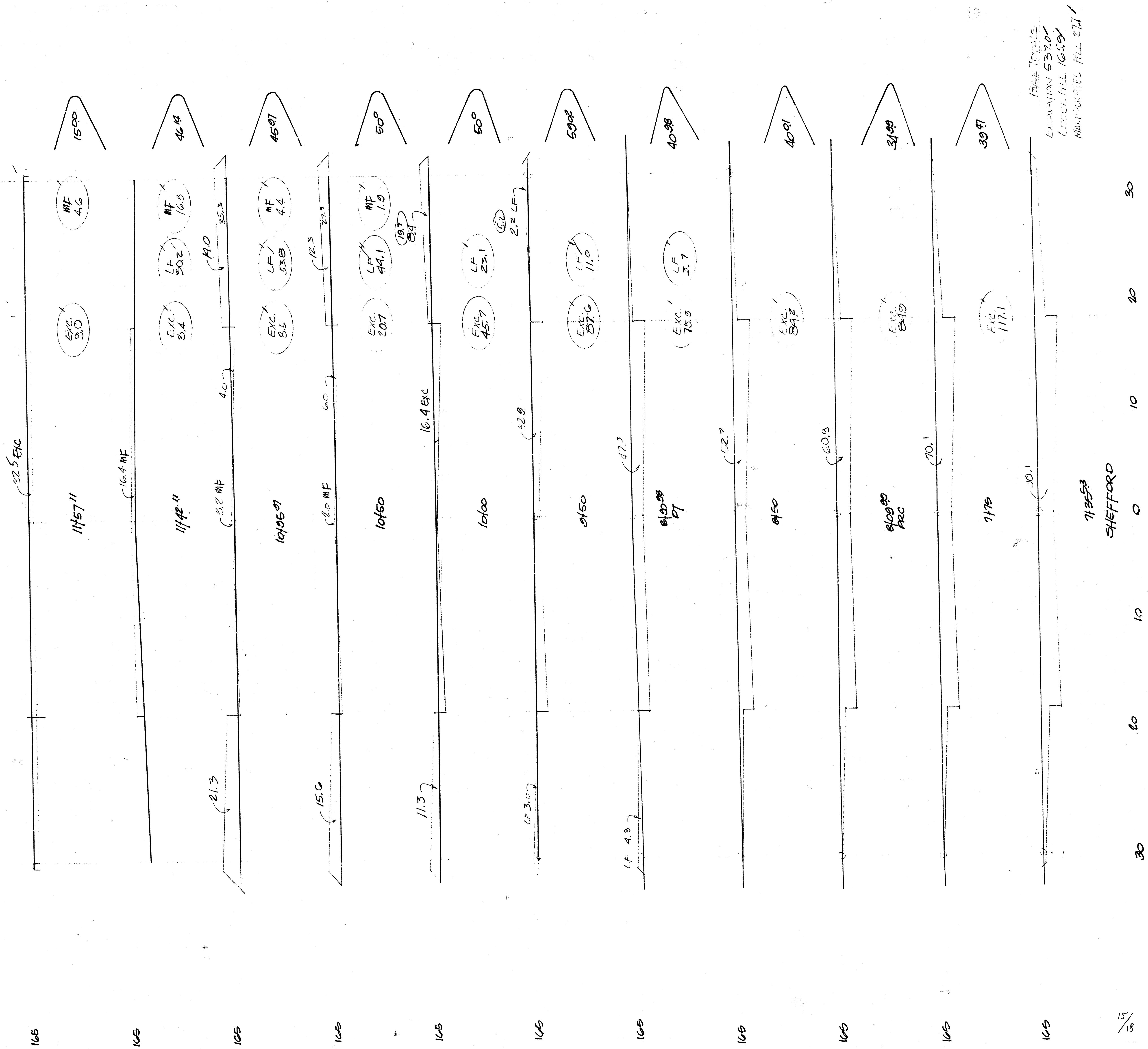
10

20

30

EXCAVATION 2257.8' 2257.8' C.Y.

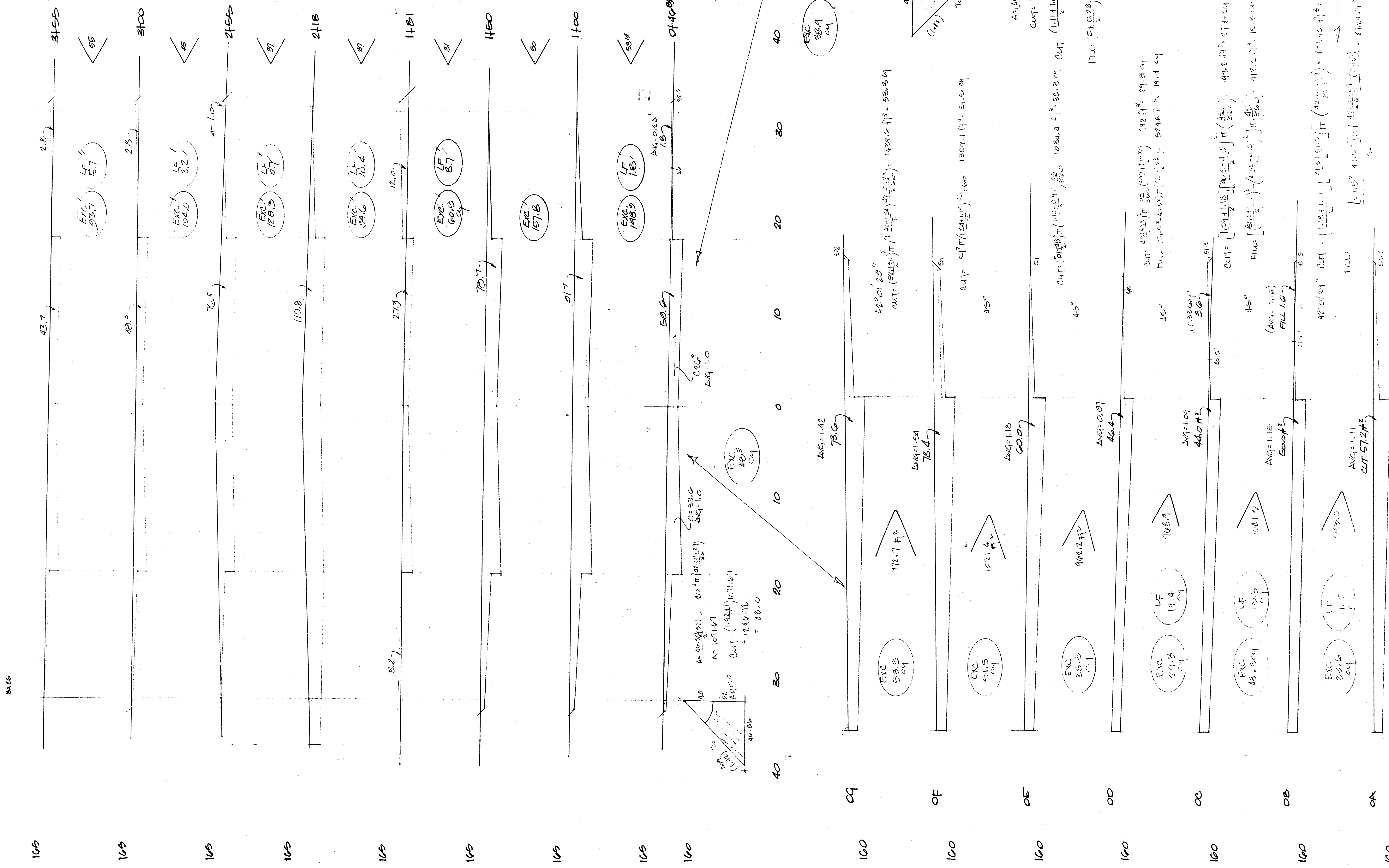
0426



EARTHWORK SECTIONS 472-76-245-81635-000-000-001

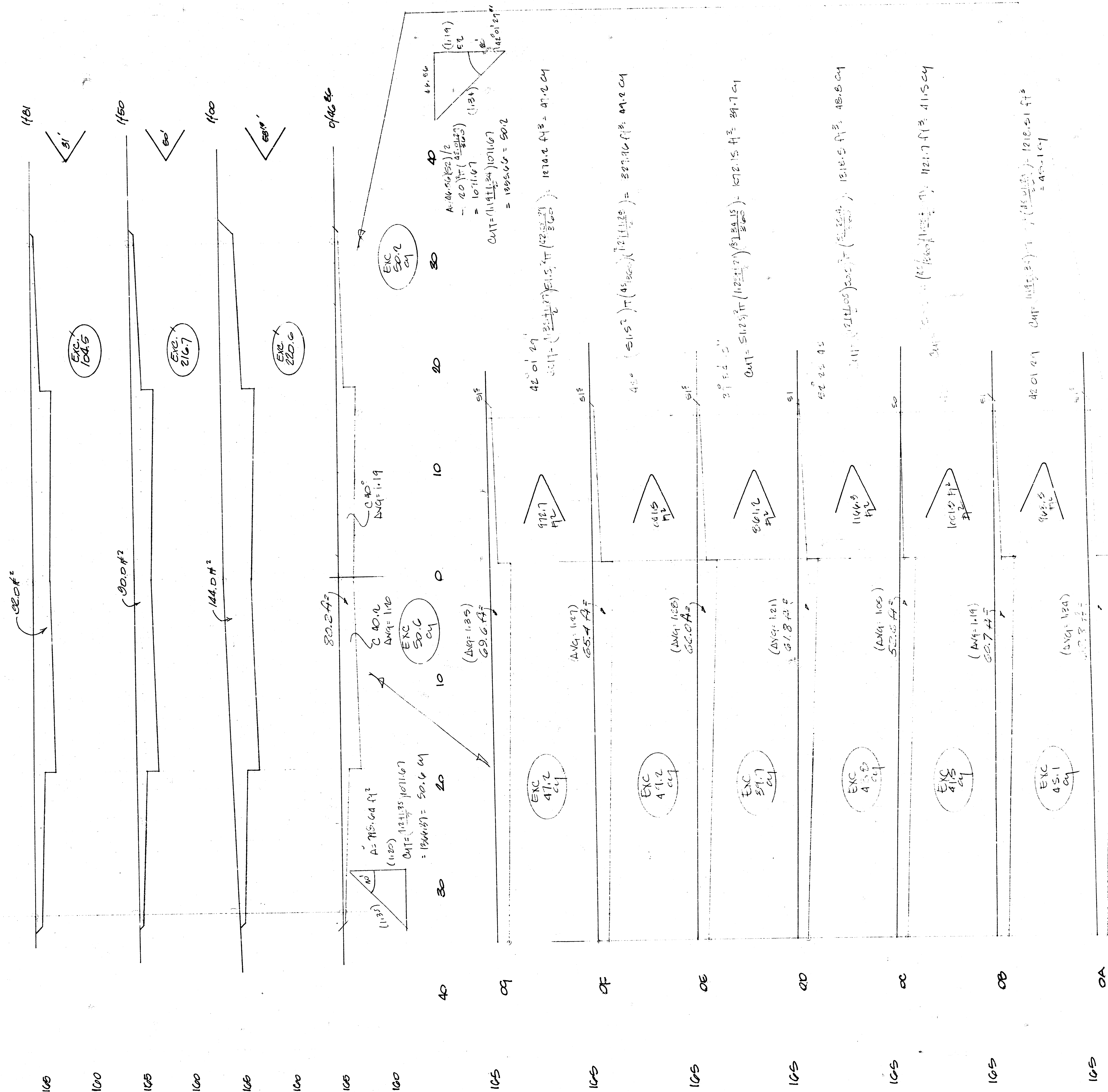
15/18

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EARTHWORK SECTIONS 472-76-245-81635-000-000-001

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BA 26

