STREET & STORM WATER SEWER IMPROVEMENTS

Taft Avenue

from JULIA to HOOVER

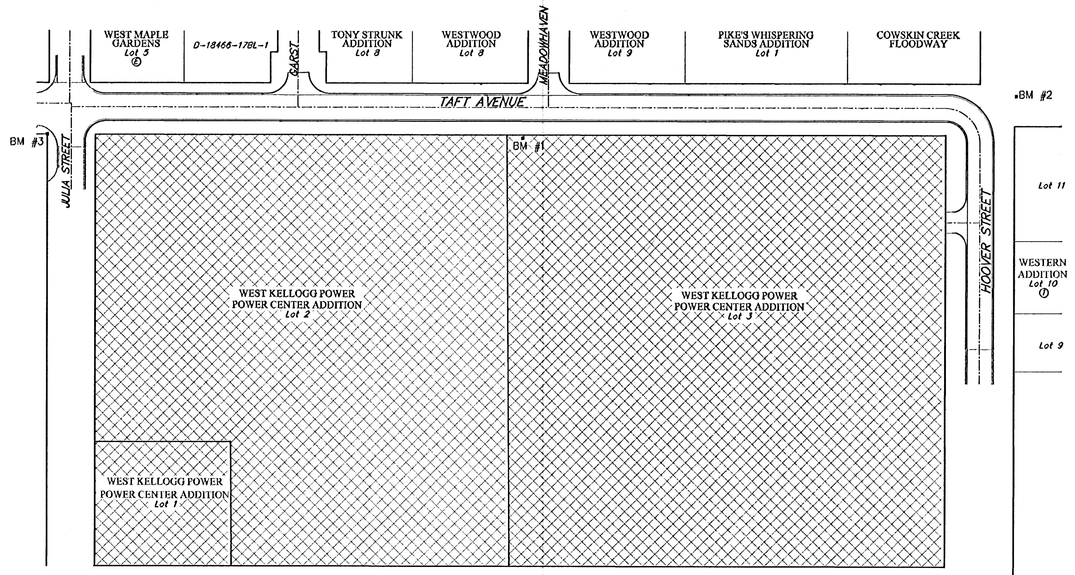
Project No.	O.C.A. No.
472-76-245-82757	765610

CITY OF WICHITA, KANSAS

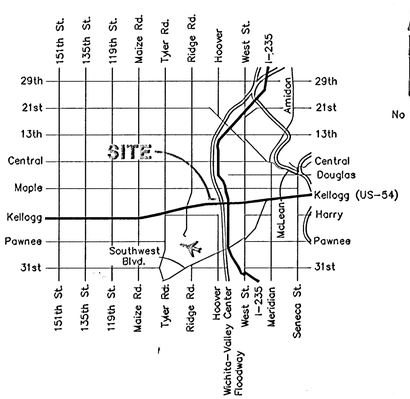
Michael E. Lindebak, P.E. City Engineer

SEPTEMBER, 2000

SCALE: 1" = 100'



BENEFIT DISTRICT



No Scale

Vicinity Map

BENCHMARKS:

BM#1 – "□" Cut at the NW corner of SWB concrete pad 600'± west of NE corner of Lot 3, West Kellogg Power Center Addition.
Elelvation = 117.61 (City Datum)

BM#2 – "+" Cut in the North end of Headwall of 10'x3' RCB at the intersection of Hoover and Taft
Elevation = 115.69 (City Datum)

BM#3 – "x" Cut in the Sidewalk Located 45 ft. South and 35 ft. West of the Intersection of Julia and Toft.
Elevation = 117.61 (City Datum)

EARTHWORK:

Project Totals		
Project Length	=	1650.20 L.F.
Excavation	=	3276 C.Y.
Compacted Fill (90%)	=	305 C.Y.
Compacted Fill (95%)	=	35 C.Y.

INDEX:

GERALD F. BRADLEY JR. LICENSED 15078 9/7/09 KANSAS PROFESSIONAL ENGINEER

F:\ENG\TAFT\TITLE

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

TAFT AVENUE
STREET IMPROVEMENTS
KEY SHEET

Scale: 1" = 40'

BENCHMARKS:

BM#1 – "□" Cut at the NW corner of SWB concrete pad 600'± west of NE corner of Lot 3, West Kellogg Power Center Addition.
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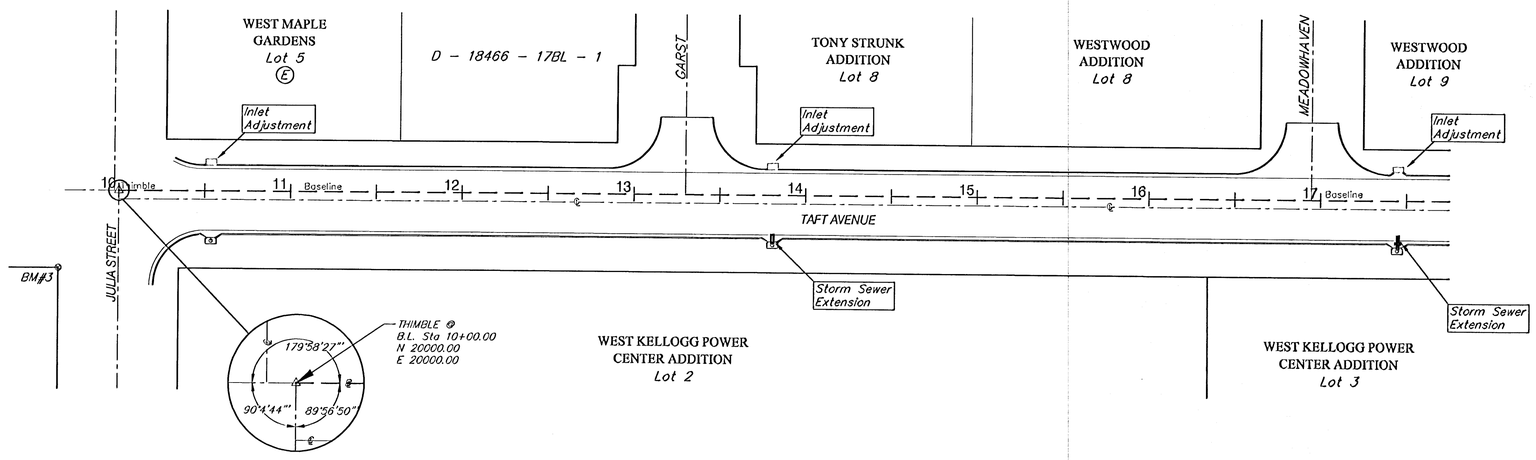

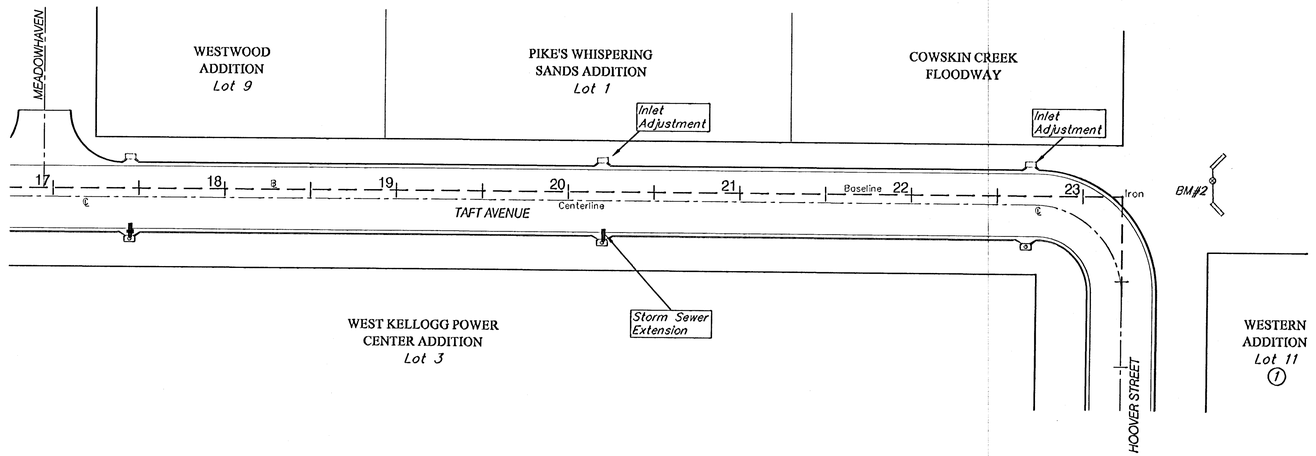

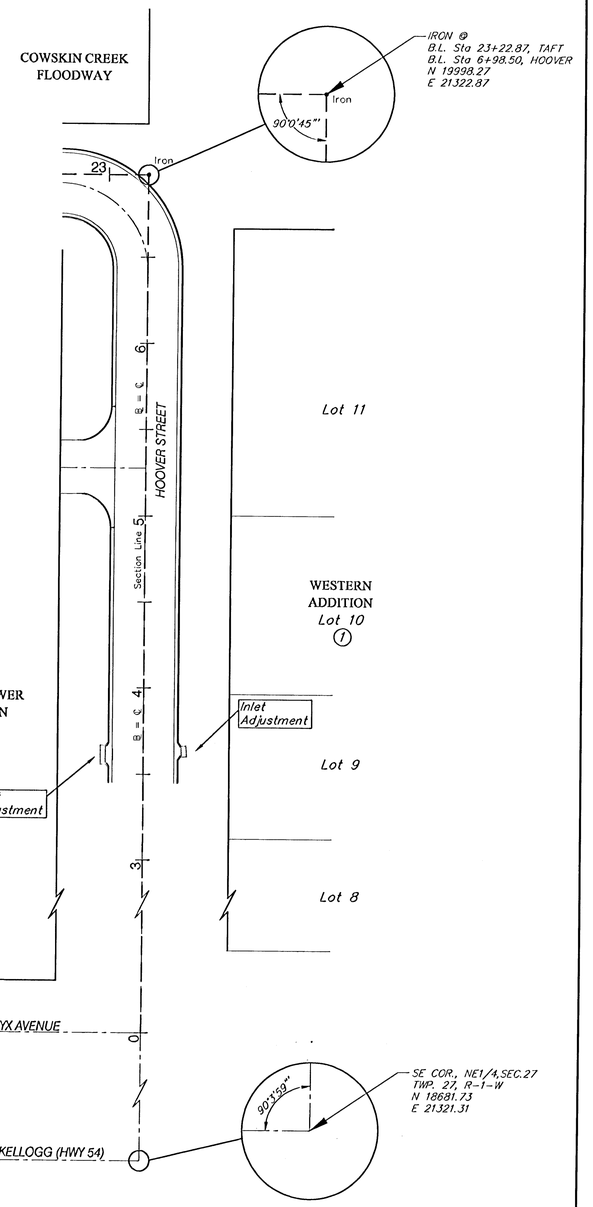

PROJECT NUMBER	SHEET NAME	ENGINEERING DIRECTORY
472 76 245 82757	KEYSHT	F:\ENG\TAFT

DESIGN	DRAWN	APPROVED	DATE	SCALE	BAUGHMAN NO
JFB/TPV	KWR		SEPT 2000	NOTED	99-12-E556

STREET IMPROVEMENTS
KEY SHEET
TAFT AVENUE - JULIA to HOOVER

BAUGHMAN COMPANY, P.A.
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SHEET 2 OF 25


BENCHMARKS:
"+" cut in north end of headwall of 10'x3' RCBC at intersection of Hoover and Taft. Elevation = 115.69 (City Datum)
SCALE: 1" = 20'
P.V.I. ELEV =115.10 NO V.C.
P.V.I. ELEV =116.97 50' V.C.
-0.269%
+0.667%
-0.644%
Sta. 03+44.78 End Construction
Sta. 03+63.39 P.V.I
Sta. 06+43.57 P.V.I
WEST KELLOGG POWER CENTRAL ADDITION
LOT 3
WESTERN ADDITION
LOT 7
LOT 8
LOT 9
LOT 10
LOT 11
HOOVER STREET
TAFT AVE.
COWSKIN CREEK FLOODWAY
ASHPHALT PARKING LOT
35' Building Setback
Saw Existing Conc. Pavement to Neat Edge. Drill & Dowel Tie Bars. INCIDENTAL to Conc. Pavement (9")(Reinforced)
Construct Std. Type 1A Inlet Hook-up
(*) Construct 6" Monolithic Curb
Construct 5' Conc. Sidewalk (4")
Remove Ex Curb to 1.5' Behind Walk
Construct 30.4' Concrete Entrance (Commercial 8") See Detail, Sheet 7. (119 Sq. Yds)
R. & R. Ex. Asphalt to 1' Behind Property Line. INCIDENTAL to Driveway Construction.
Probe 4" Gas 52" Deep
Location of RCP Not Verified
Probe 4" Gas 58" Deep
20' Private Screening Wall & Landscape Easement
Sta. 6+98.50, Hoover Road = Sta. 23+22.87, Taft Street
Abandoned 6" Crude Oil Derby Petroleum (Coastal)
36" Sanitary Sewer
16" PVC Water
U/G SWB (600 Pr)
4" Plastic KGS Gas
Construct 6" Monolithic Curb
Construct 9" Reinf. Concrete Pavement. See Typical Section, Sheet 4.
Install W1-1L Sign
Adjust Ex Brick SS Manhole to Match Final Grade Ex Elev = 115.86 Prop Elev = 116.38
Sta. 6+78.92, 14.64' Lt. Sta. 23+08.23, 19.58' Rt. = MATCH POINT
(*) Contractor to Either Construct 6" Curb and Gutter with Dowel Reinforcement, or Construct 6" Integral Curb. Cost to be INCIDENTAL to "6" Monolithic Curb".

PROJECT NUMBER	SHEET NAME	ENGINEERING DIRECTORY
472 76 245 82757	Pav01	F:\\ENG\TAFT\PAV

DESIGN	DRAWN	APPROVED	DATE	SCALE	BAUGHMAN NO
TPV/JFB	STAFF	JFB	SEPT 2000	NOTED	99-12-E556

STREET IMPROVEMENTS FOR
TAFT AVENUE
JULIA TO HOOVER
HOOVER STREET PAVING PLAN-STA. 3+44.78 to STA. 6+78.92, 14.64' Lt.

BAUGHMAN COMPANY, P.A.
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316-262-7271 * 315 ELLIS * WICHITA, KANSAS 67211

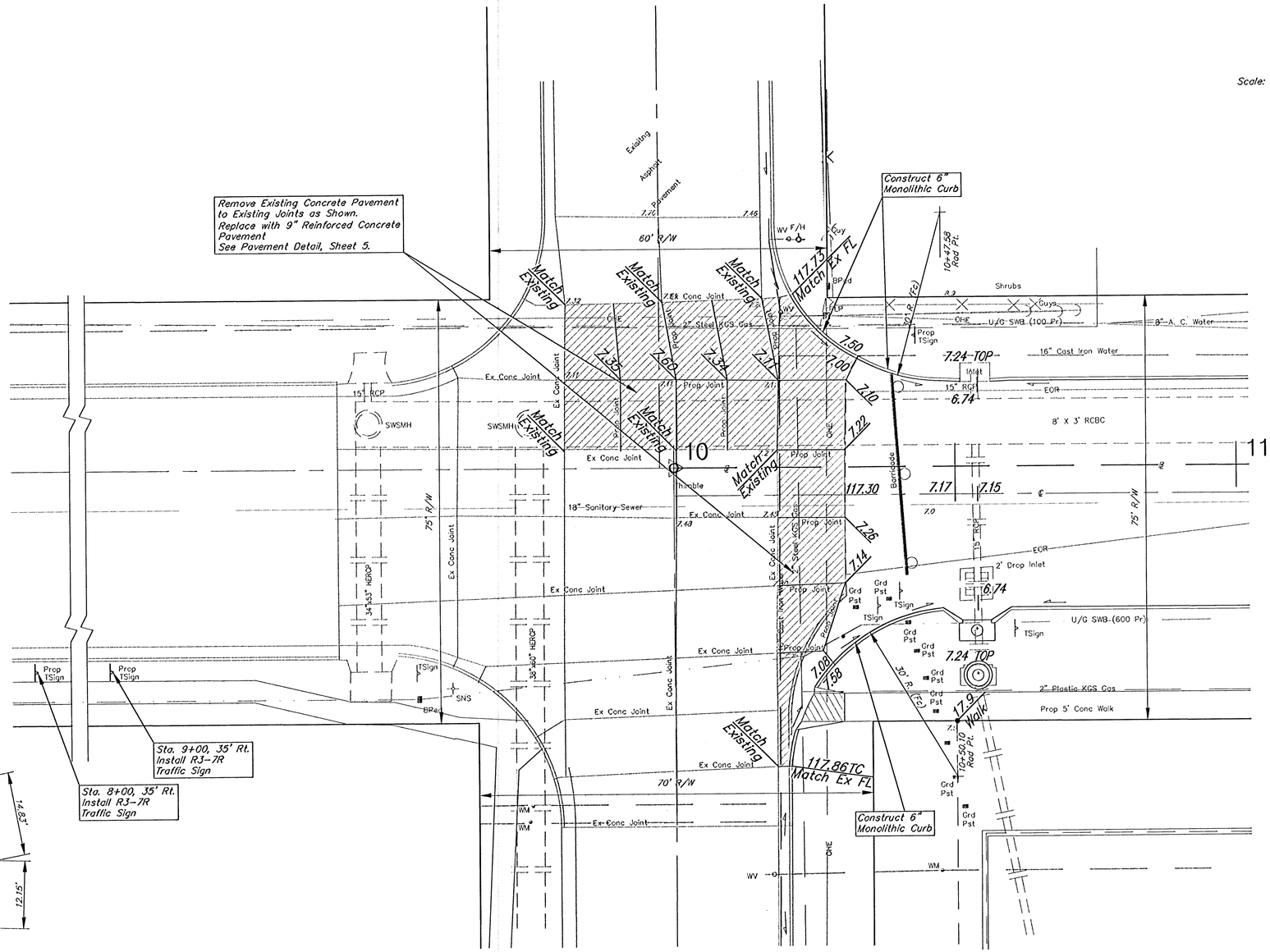
SHEET 11 OF 25

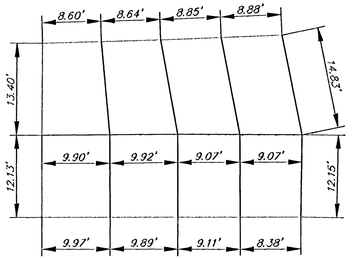
BENCHMARKS:

"x" Cut in the Sidewalk Located 45 ft. South and 35 ft. West of the Intersection of Julia and Taft. Elevation = 117.61 (City Datum)

Concrete Pavement to be Removed and Replaced

Scale: 1" = 10'





PATTERN DETAIL AND DIMENSIONS

PROJECT NUMBER	SHEET NAME	ENGINEERING DIRECTORY
472 76 245 82757	JULIA INT	F:\ENG\TAFT\DETAILS

DESIGN	DRAWN	APPROVED	DATE	SCALE	BAUGHMAN NO
TPV/JFB	TPV	JFB	SEPT 2000	NOTED	99-12-E556

STREET IMPROVEMENTS
TAFT - JULIA
INTERSECTION DETAIL
TAFT AVENUE - JULIA TO HOOVER

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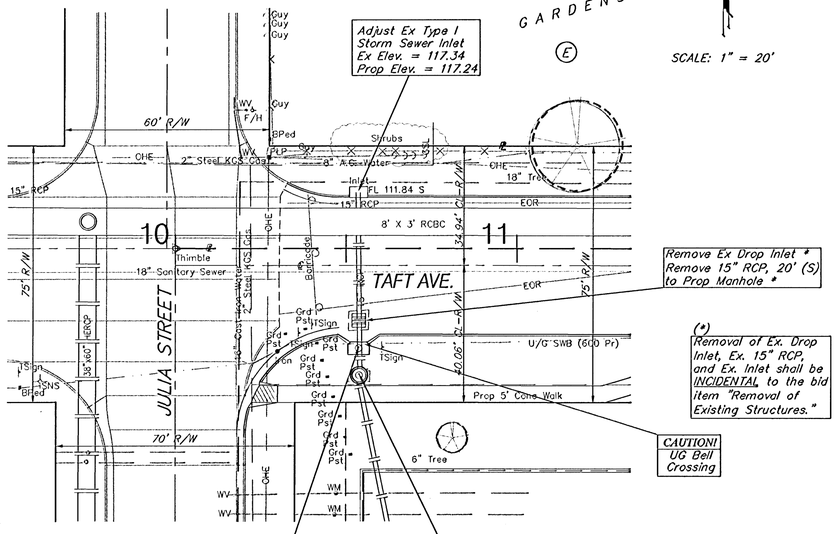
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

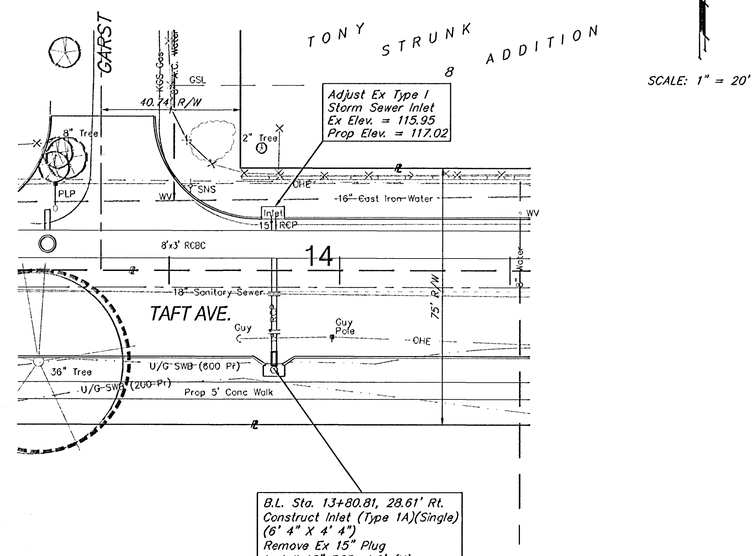
SHEET 12 OF 25

BENCHMARKS:

"□" cut at NW corner of SWB concrete pad 600'± west of NE corner of Lot 3, West Kellogg Power Center Addition.
Elevation = 117.61 (City Datum)



SCALE: 1" = 20'



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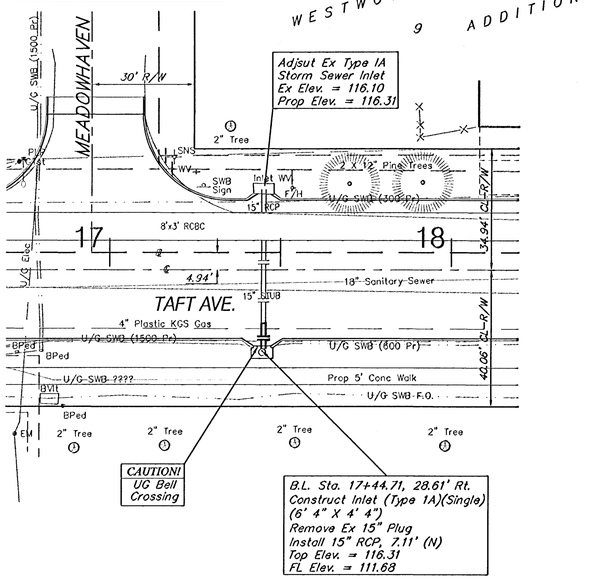
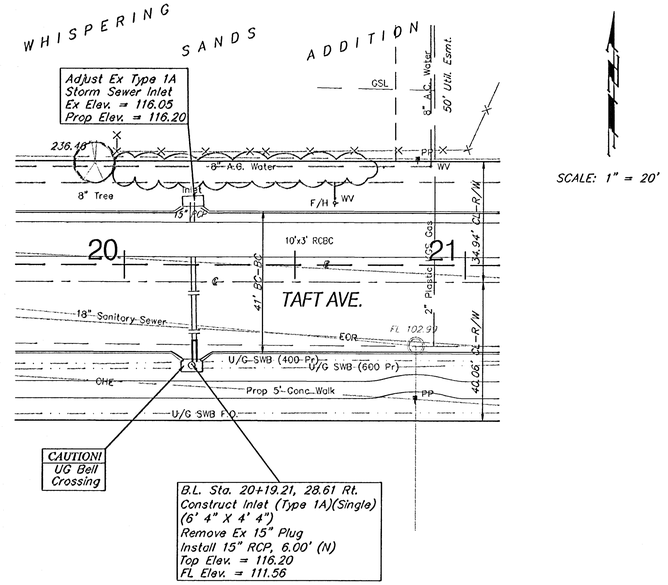


SCALE: 1" = 20'

NOTE:

ENDS OF EXISTING STORM PIPE ARE DERIVED FROM CITY RECORD ASBUILT STORM WATER SEWER #351 PROJECT NO. 468-81769



SCALE: 1" = 20'

PROJECT NUMBER			SHEET NAME	ENGINEERING DIRECTORY	
472 76 245 82757			SWS01	F:\ENG\TAFT\SWS	
DESIGN	DRAWN	APPROVED	DATE	SCALE	BAUGHMAN NO
JFB/TPV	KWR	JFB	SEPT 2000	NOTED	99-12-E556

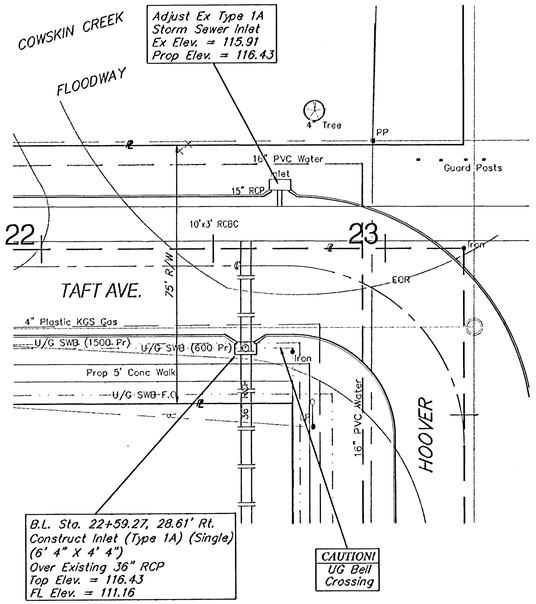
STREET IMPROVEMENTS
STORM WATER SEWER IMPROVEMENTS
TAFT AVENUE - JULIA to HOOVER

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

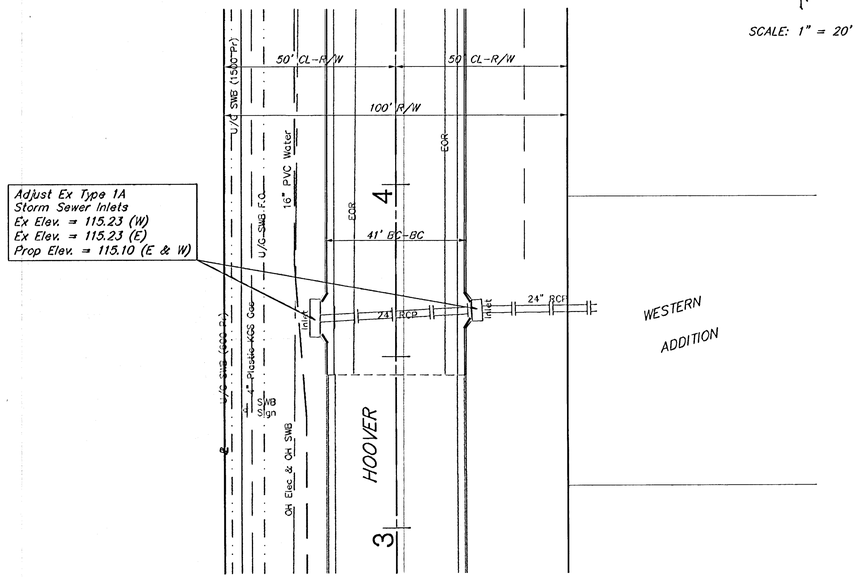
BENCHMARKS:

"+" cut in north end of headwall of 10'x3' RCBC at intersection of Hoover and Taft.
Elevation = 115.69 (City Datum)

SCALE: 1" = 20'



SCALE: 1" = 20'



PROJECT NUMBER	SHEET NAME	ENGINEERING DIRECTORY
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DESIGN	DRAWN	APPROVED	DATE	SCALE	BAUGHMAN NO
JFB/TPV	KWR	JFB	SEPT 2000	NOTED	99-12-B556

STREET IMPROVEMENTS
STORM WATER SEWER IMPROVEMENTS
TAFT AVENUE - JULIA to HOOVER

BAUGHMAN COMPANY, P.A.
ENGINEERING, SURVEYING, & PLANNING
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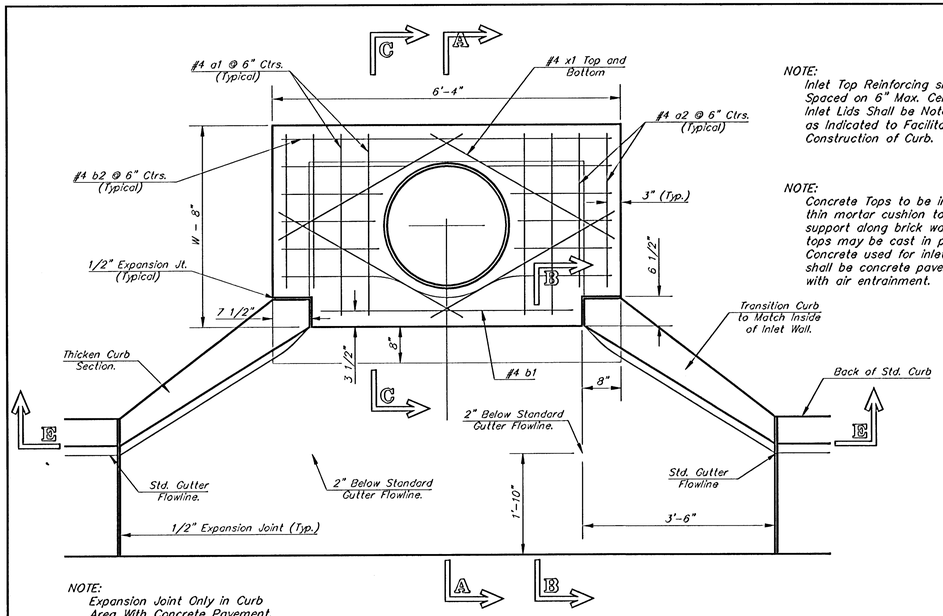
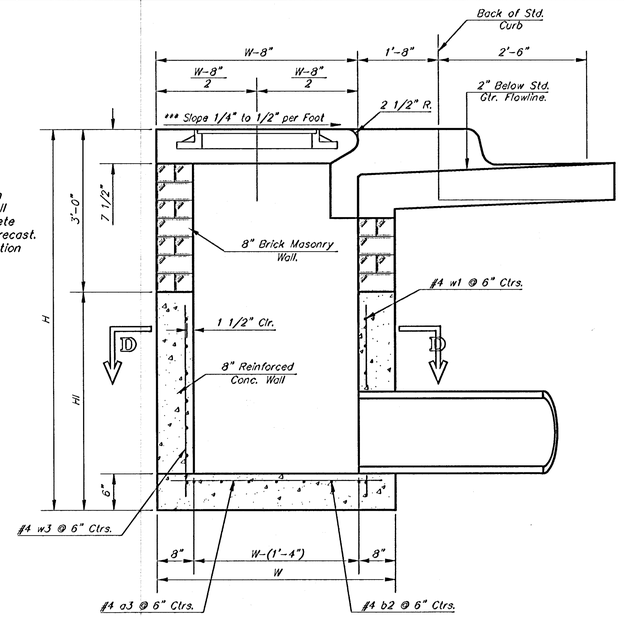


NOTE:
Expansion Joint Only in Curb Area With Concrete Pavement.

PLAN

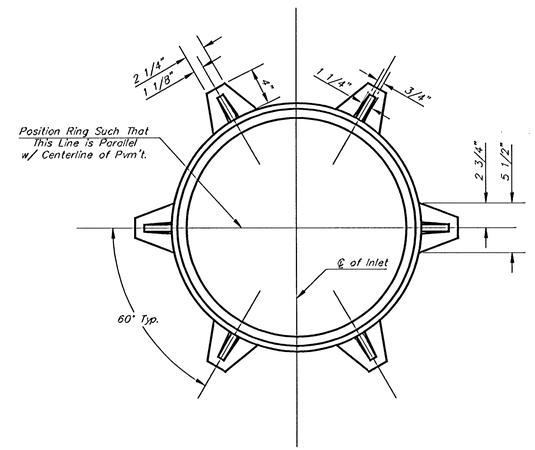
NOTE:
Inlet Top Reinforcing shall be Spaced on 6" Max. Centers. Inlet Lids Shall be Notched Out as Indicated to Facilitate Construction of Curb.

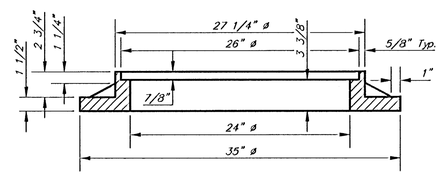
NOTE:
Concrete Tops to be installed on thin mortar cushion to insure full support along brick walls. Concrete tops may be cast in place or precast. Concrete used for inlet construction shall be concrete pavement mix with air entrainment.



SECTION A–A

***NOTE: Slope of inlet tops to Match Sidewalk or Parking Slopes within Limits Indicated.

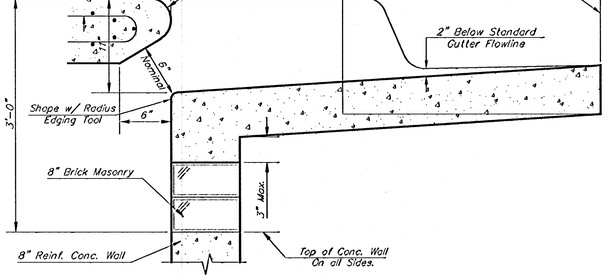




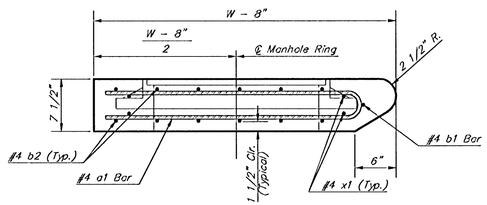
MANHOLE RING AND COVER

Weight = 180 Lbs.

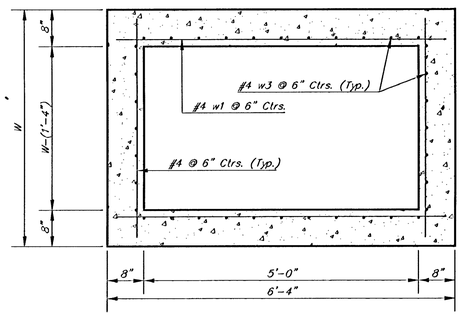
*See City of Wichita Standard Manhole Ring and Cover Detail Sheet for Cover Details to Be Used With Inlet Frame.



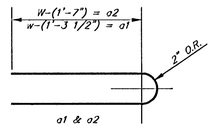
SECTION B–B



SECTION C–C



SECTION D–D



BENDING DIAGRAM

* Field Bend or Cut Reinforcing as Required for Clearance.
① 4 (Hl – 12") (Hl – 21") Rounded down to nearest 0.5'
② Hl – 3"

NOTE: Contractor shall have the option of constructing 8" brick masonry walls between the concrete inlet base and top on this inlet when W=6'-4" and H=7'-0" or less.

Additional curb and gutter construction necessary to connect set-back inlet to pavement will be paid for at the unit price bid for each inlet hookup.

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.

The ends of all pipes installed in inlets shall be cut off flush with the inside face of the inlet wall

PRECAST SLAB AND FLOOR REINFORCING

		W = 4'-4"		W = 5'-4"		W = 6'-4"		W = 7'-4"		W = 8'-4"	
MARK	SIZE	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
* a1	#4	6	6'-7"	6	8'-7"	6	10'-7"	6	12'-7"	6	14'-7"
a2	#4	4	6'-0"	4	8'-0"	4	10'-0"	4	12'-0"	4	14'-0"
a3	#4	13	4'-1"	13	5'-1"	13	6'-1"	13	7'-1"	13	8'-1"
b1	#4	1	4'-9"	1	4'-9"	1	4'-9"	1	4'-9"	1	4'-9"
* b2	#4	23	6'-1"	29	6'-1"	35	6'-1"	41	6'-1"	47	6'-1"
x1	#4	8	3'-10"	8	4'-2"	8	4'-6"	8	4'-10"	8	5'-2"

WALL REINFORCING

		W = 4'-4"		W = 5'-4"		W = 6'-4"		W = 7'-4"		W = 8'-4"	
MARK	SIZE	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
w1	#4	①	5'-1"	①	6'-1"	①	6'-1"	①	6'-1"	①	6'-1"
w2	#4	①	4'-1"	①	5'-1"	①	6'-1"	①	7'-1"	①	8'-1"
w3	#4	32	②	36	②	40	②	44	②	48	②

STANDARD CURB INLET PRECAST TOPS

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

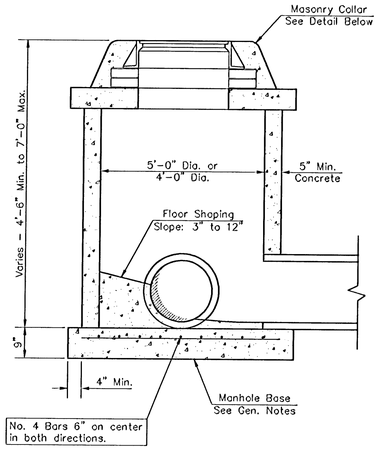
PROJECT NUMBER	SHEET NAME	ENGINEERING DIRECTORY
472 76 245 82757	TYPE1A-S	F:\ENG\TAFT\DETAILS

DESIGN	DRAWN	APPROVED	DATE	SCALE	BAUGHMAN NO
C.O.W.	STAFF		SEPT 2000	NONE	99-12-B556

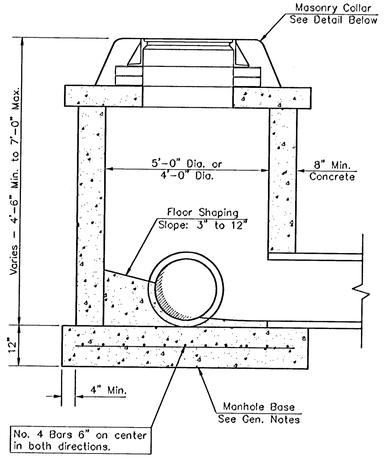
CITY OF WICHITA STANDARD TYPE 1A
CURB INLET DETAIL
INLET OPENING = 6" X 5'-0"
TAFT AVENUE - JULIA TO HOOVER

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

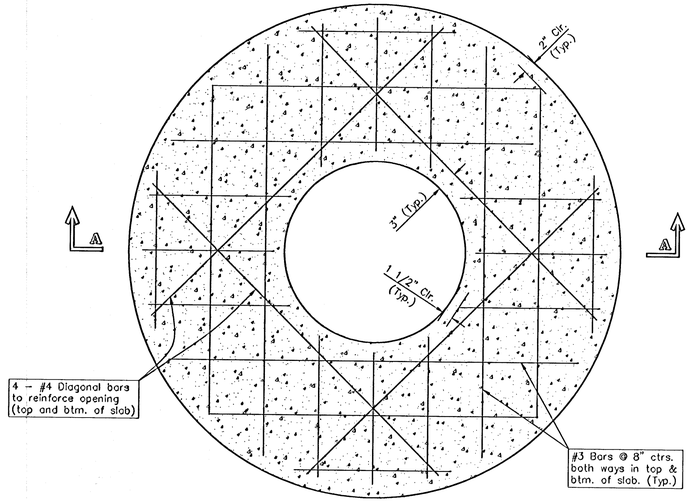
SHEET 15 OF 25



SHALLOW TYPE "P" MANHOLE



SHALLOW TYPE "C" MANHOLE



PLAN

GENERAL NOTES

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 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'. Manholes constructed where pipe sizes are 24" or larger shall have an inside diameter of 5'. Completed manhole shall be without leaks and water tight.

2. Reinforcing steel shall be installed in the manhole bases and shall consist of no. 4 bars placed on 6" centers in both directions. The manhole base reinforcement shall be placed 6" above the bottom of the manhole base. All costs for furnishing and 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 solids could be deposited as sewage flows through the manhole from all inlet pipes to the outlet pipe. Flow channels shall be formed to match the bottom halves of the inflowing pipes and the outflowing pipe as shown by the drawings. Manhole floors shall have slopes of 3 inches per foot in the areas outside of the flow channels sloped toward the flow channels. Pipes laid through manholes shall have the top half removed to neat 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.

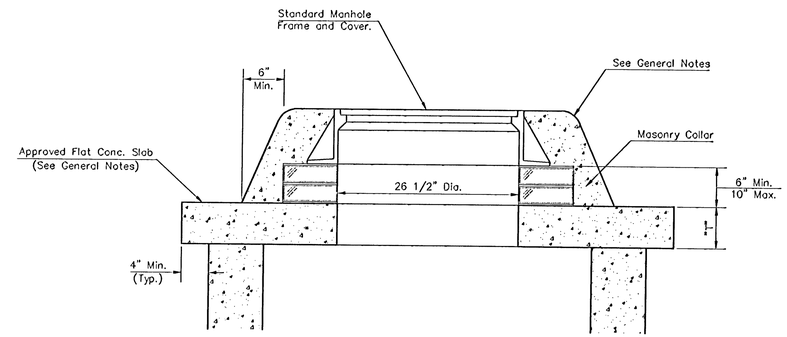
4. Pipes installed within the excavation made for the manhole shall be cradled with concrete to the limits of the manhole excavation. When clay pipe is used, the cradle shall extend to the first joint outside the manhole. The cradle shall be terminated at the clay pipe joint in a manner which will maintain the flexibility of the joint. Cost of cradle within 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.

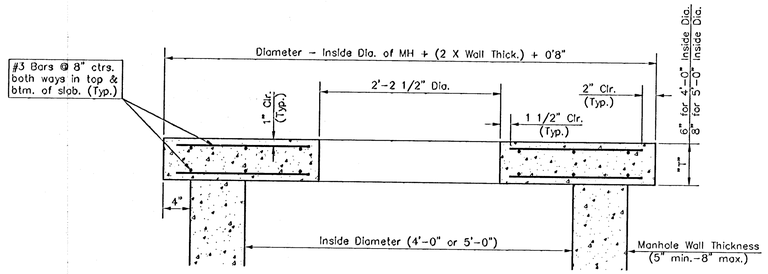
6. The crowns of inflowing pipes shall never be set lower than the crown of the outflowing pipe.

7. Standard shallow manholes type "P" and "C" shall be paid for at the unit price bid per each for the type and diameter indicated. All standard shallow manhole diameters will be 4' unless indicated otherwise.

8. All brick used in manhole construction shall meet Grade SW of ASTM C652 or C62-87.



MASONRY COLLAR DETAIL



SECTION A–A

FLAT CONCRETE SLAB DETAILS

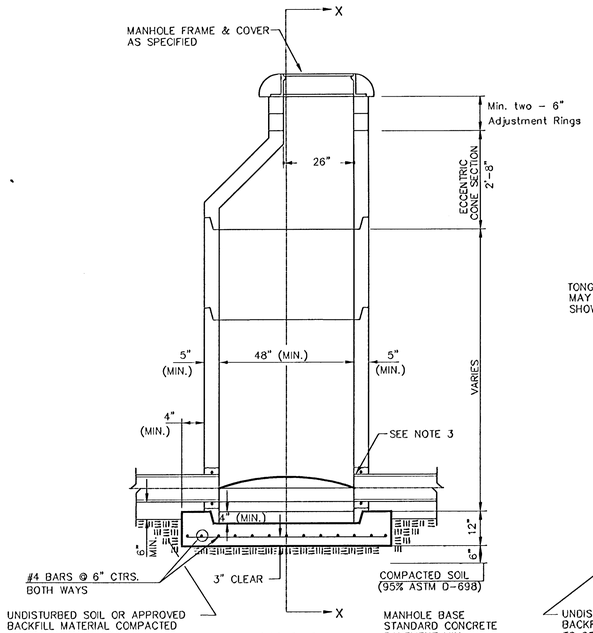
PROJECT NUMBER	SHEET NAME	ENGINEERING DIRECTORY
472 76 245 82757	SHLWMH2	F:\ENG\TAFT\DETAILS

DESIGN	DRAWN	APPROVED	DATE	SCALE	BAUGHMAN NO
C.O.W.	STAFF		SEPT 2000	NONE	99-12-B556

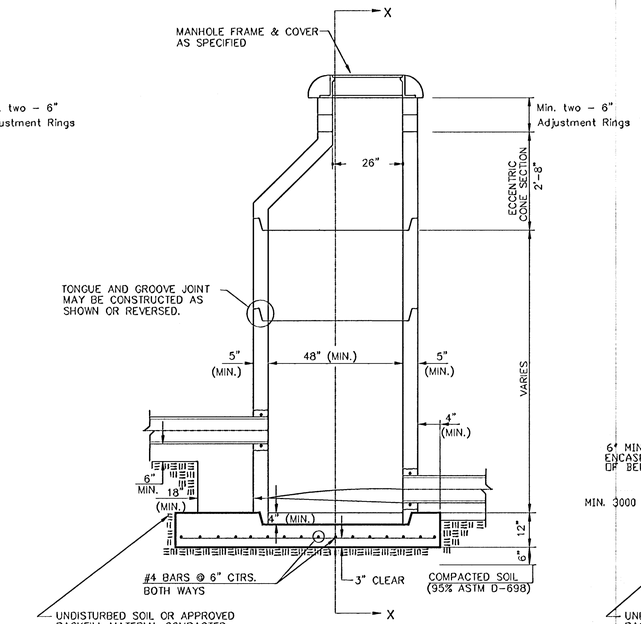
CITY OF WICHITA, KANSAS
STANDARD
SHALLOW MANHOLE
TYPE "P" AND TYPE "C"

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

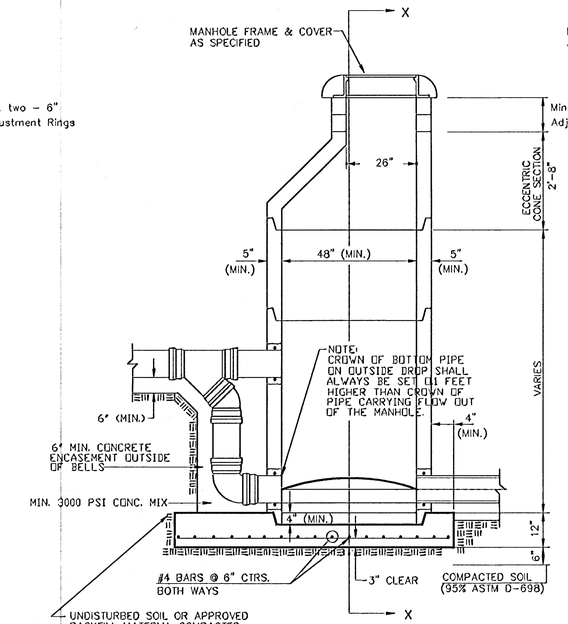
SEWER APPURTENANCES DETAILS



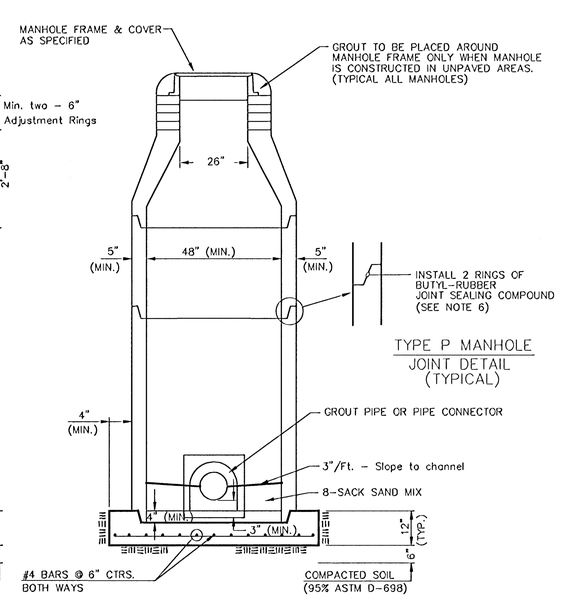
TYPE P
STANDARD MANHOLE



TYPE P
INSIDE DROP MANHOLE



TYPE P
OUTSIDE DROP MANHOLE



SECTION X
(TYPICAL)

GENERAL NOTES

PRECAST MANHOLE NOTES

1. ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISIONS OF A.S.T.M. C478 AS MODIFIED BY THE SPECIFICATIONS.
2. NON-SHRINK GROUT SHALL BE NON-METALLIC TYPE.
3. APPROVED FLEXIBLE WATERSTOP GASKETS SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL WHEN A.B.S. COMPOSITE PIPE OR P.V.C. PIPE IS USED. FOR OTHER TYPES OF PIPE THE SEWER SHALL BE GROUTED IN PLACE WITH NON-SHRINK GROUT. THE SEWER PIPE SHALL BE SUPPORTED WITH CONCRETE ENCASEMENT A MINIMUM OF 3 FEET FROM THE MANHOLE WALL AND TO THE FIRST JOINT FOR V.C.P. SUCH THAT THE JOINT REMAINS FLEXIBLE.
4. ALL INSIDE SURFACES OF THE CONCRETE MANHOLE WHICH WOULD BE EXPOSED TO SEWER GAS SHALL BE COATED WITH 2 COATS TNEMEC SERIES 66 HI-BUILD EPOXOLINE, DRY THICKNESS OF 8 MILS (MIN.)
5. EXTERIOR MANHOLE WALLS SHALL BE COATED WITH 1 COAT MOBILARMA 633 BITUMINOUS COATING.
6. JOINT SEALING COMPOUND SHALL BE KENT SEAL NO. 2 OR APPROVED EQUAL.
7. PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO THE MANHOLE BASE.
8. TOP OF MANHOLE FLOOR SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOW LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHAPED INVERT.
9. LIFTING HOLES SHALL BE FILLED WITH NON-SHRINK GROUT AND THE INTERIOR SURFACE COATED AS SPECIFIED.
10. 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 STANDARD PAVING SPECIFICATIONS USING STANDARD CONCRETE PAVEMENT 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'. MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE 24" OR LARGER SHALL HAVE AN INSIDE DIAMETER OF 5'. COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.
11. REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES AND SHALL CONSIST OF NO. 4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. THE MANHOLE BASE REINFORCEMENT SHALL BE PLACED AT LEAST 3" ABOVE THE BOTTOM OF THE MANHOLE BASE. ALL COSTS FOR FURNISHING AND INSTALLING REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
12. OPENINGS SHALL BE CUT INTO THE MANHOLE WALL WHEN OUTSIDE DROPS ARE CONSTRUCTED ON EXISTING MANHOLES. SUCH OPENINGS CUT INTO EXISTING MANHOLES SHALL BE AS SMALL AS PRACTICAL TO FACILITATE INSTALLING AND GROUTING THE NEW PIPE IN PLACE. WATERSTOP GASKETS SHALL BE USED WITH P.V.C. AND A.B.S. COMPOSITE PIPE. THE NEW PIPE SHALL BE GROUTED INTO THE OPENING USING AN APPROVED NONSHRINK GROUT FOR THE FULL MANHOLE WALL THICKNESS. THE EXTERIOR OF THE COMPLETED CONNECTION SHALL BE SEALED WITH AN APPROVED BITUMINOUS COATING SUCH THAT THE CONNECTION WILL BE WATER TIGHT. FLOOR OF MANHOLE SHALL BE MODIFIED TO FORM NEW FLOW CHANNEL FOR THE NEW CONNECTION AS INDICATED BY THE DRAWING. THIS WORK, INCLUDING MODIFICATION OF MANHOLE FLOOR, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR OUTSIDE DROP STACK CONSTRUCTED ON EXISTING MANHOLE.
13. THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF CLEANING AND FREE OF AREAS WHERE SOLIDS COULD BE DEPOSITED AS SEWAGE FLOWS THROUGH THE MANHOLE FROM ALL INLET PIPES TO THE OUTLET PIPE. FLOW CHANNELS SHALL BE FORMED TO MATCH THE BOTTOM HALVES OF THE INFLOWING PIPES AND THE OUTFLOWING PIPE AS SHOWN BY THE DRAWINGS EXCEPT FOR INSIDE DROP MANHOLES. FLOW CHANNELS FOR INSIDE DROP MANHOLES SHALL BE CONSTRUCTED AS INDICATED BY THE DRAWING. MANHOLE FLOORS SHALL HAVE SLOPES OF 3 INCHES PER FOOT IN THE AREAS OUTSIDE OF THE FLOW CHANNELS SLOPED TOWARD THE FLOW CHANNELS. PIPES LAID THROUGH MANHOLES SHALL HAVE THE TOP HALF REMOVED TO NEAT 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.
14. 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 CRADLE SHALL EXTEND TO THE FIRST JOINT OUTSIDE THE MANHOLE. THE CRADLE SHALL BE TERMINATED AT THE CLAY PIPE JOINT IN A MANNER WHICH WILL MAINTAIN THE FLEXIBILITY OF THE JOINT. COST OF CRADLE WITHIN MANHOLE EXCAVATION OR TO CLAY PIPE JOINTS ADJACENT TO MANHOLE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
15. 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 DRAWING.
16. THE VERTICAL DROP IN INSIDE DROP MANHOLES SHALL NOT EXCEED 2' FOR INFLOWING PIPES SIZED 12" OR SMALLER AND 2' FOR INFLOWING PIPES LARGER THAN 12". THE CROWNS OF INFLOWING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.
17. STANDARD MANHOLES AND STANDARD INSIDE DROP MANHOLES SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED. OUTSIDE DROP MANHOLES SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.

PROJECT NUMBER	SHEET NAME	ENGINEERING DIRECTORY
472 76 245 82757	ECCMH	F:\ENG\TAFT\DETAILS

DESIGN	DRAWN	APPROVED	DATE	SCALE	BAUGHMAN NO
C.O.W.	STAFF		SEPT2000	NONE	99-12-E556

CITY OF WICHITA, KANSAS

ECCENTRIC MANHOLE DETAILS

TAFT AVENUE - JULIA TO HOOVER

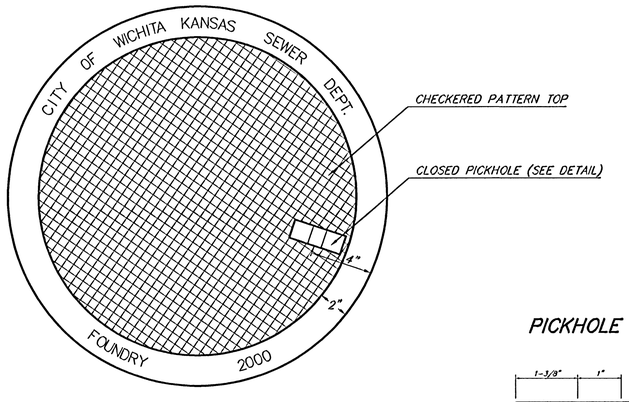
BAUGHMAN COMPANY, P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

SHEET 17 OF 25

MANHOLE FRAME AND COVER DETAIL

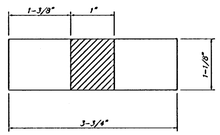
ADOPTED AS STANDARD DESIGN BY
CITY OF WICHITA, KANSAS

MANHOLE COVER
Weight = 180 Lbs.

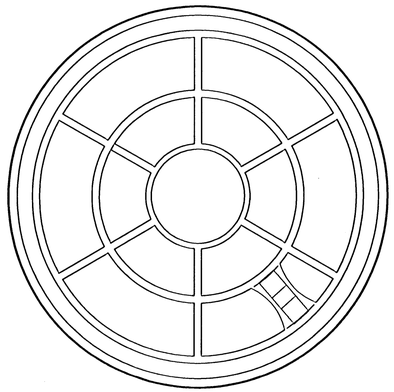


TOP VIEW

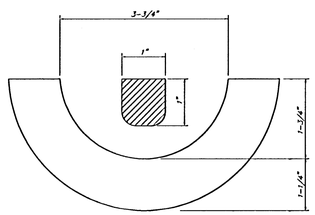
PICKHOLE DETAIL



TOP VIEW

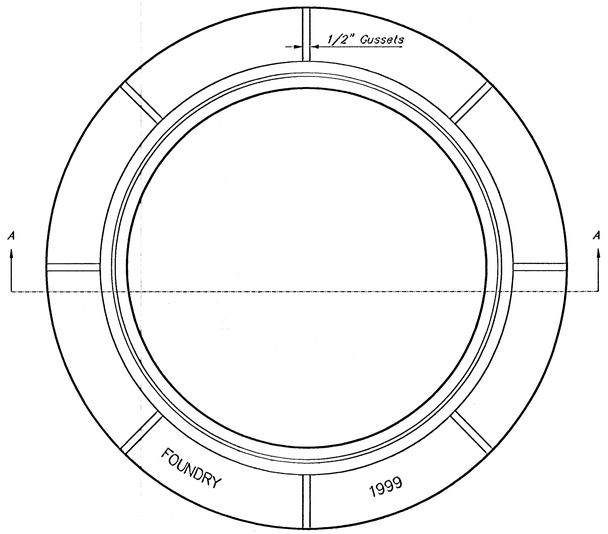


BOTTOM VIEW



SECTION VIEW

MANHOLE FRAME
Weight = 145 Lbs.



TOP VIEW

GENERAL NOTES

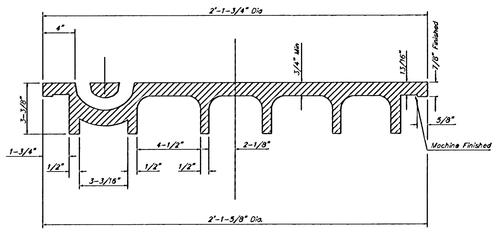
MANHOLE CASTINGS SHALL BE MANUFACTURED USING GOOD QUALITY GRAY IRON CONFORMING TO CLASS 30 OF A.S.T.M. DESIGNATION A-48. DIMENSIONS AND WEIGHTS SHOWN ON THE DETAILED DRAWINGS SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS AND ANY DEVIATIONS FROM THE DIMENSIONS SHOWN MUST BE SPECIFICALLY APPROVED. THE FINISHED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

MANHOLE CASTINGS SHALL BE COATED WITH AN ASPHALT PAINT RESULTING IN A SMOOTH, TOUGH AND TENACIOUS COATING WHICH IS NOT BRITTLE OR TACKY.

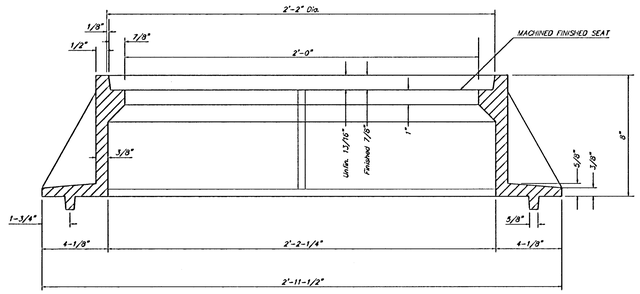
MANHOLE CASTINGS SHALL BE MANUFACTURED SUCH THAT A COVER MANUFACTURED BY ANY ONE FOUNDRY WILL FIT INTERCHANGEABLY INTO A FRAME MANUFACTURED BY ANOTHER FOUNDRY AND STILL MEET ALLOWABLE CLEARANCES AND NON-ROCKING REQUIREMENTS. THIS WILL REQUIRE MANUFACTURING OF THE MATCHING FACES ON THE COVER AND THE FRAME TO CLOSE TOLERANCES.

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 CLEARANCE BETWEEN THE COVER AND FRAME WILL NOT EXCEED 1/8" AT ANY POINT AROUND THE CIRCUMFERENCE OF THE COVER. THE SEATING SURFACES BETWEEN THE COVER AND FRAME SHALL BE MACHINED SUCH AS THESE SURFACES SHALL MAKE FULL CONTACT FOR THEIR FULL CIRCUMFERENCE TO PRECLUDE THE COVER FROM ROCKING IN THE FRAME.

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 COVER SHALL 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 ABBREVIATED. THE TEXTURE OF THE TOP SURFACE OF THE COVER SHALL BE MANUFACTURED IN A CHECKERED PATTERN DESIGN AS INDICATED ON THE DRAWINGS. SMOOTH BLOCKOUTS SHALL BE UTILIZED TO HIGHLIGHT THE LETTERING ON THE COVER SURFACE. THE TOTAL AREA OF SMOOTH SURFACE BLOCKOUT SHALL NOT EXCEED THE AREA AS INDICATED ON THE DRAWING. POSITIONING OF SMOOTH BLOCKOUTS AND LETTERING MAY VARY FROM THAT SHOWN ON THE DETAILED DRAWING.



SECTION VIEW



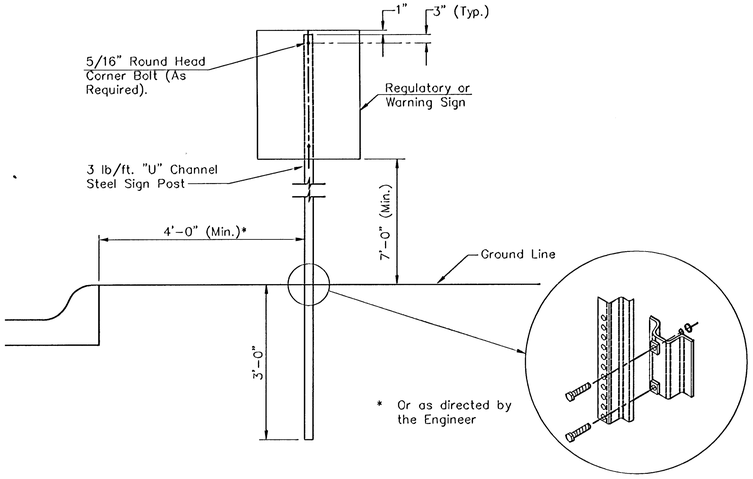
SECTION A-A

PROJECT NUMBER			SHEET NAME	ENGINEERING DIRECTORY	
472 76 245 82757			MHRING	F:\ENG\TAFT\DETAILS	
DESIGN	DRAWN	APPROVED	DATE	SCALE	BAUGHMAN NO
C.O.W	STAFF		SEPT 2000	NONE	99-12-E556

CITY OF WICHITA, KANSAS
STANDARD DETAILS for
MANHOLE RING AND COVER
TAFT AVENUE- JULIA TO HOOVER

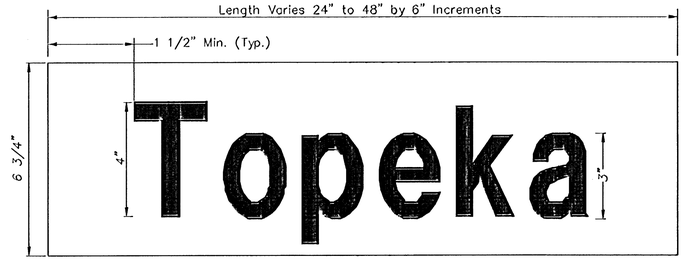
BAUGHMAN COMPANY, P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

SHEET 18 OF 25

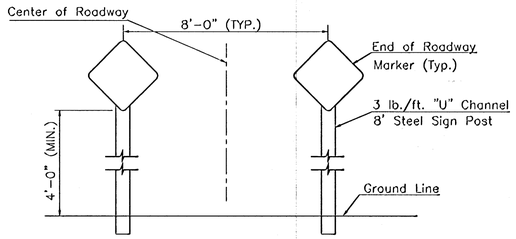


TYPICAL TRAFFIC CONTROL SIGN MOUNTING INSTALLATION

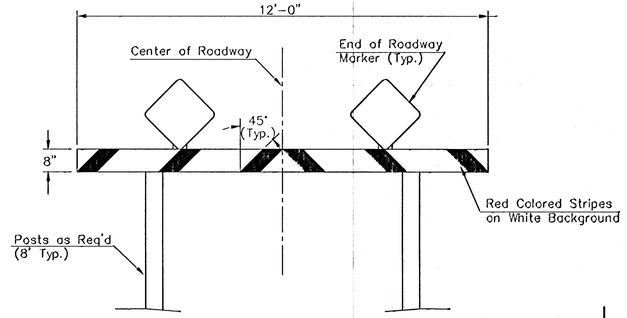
CURB AND GUTTER SECTION



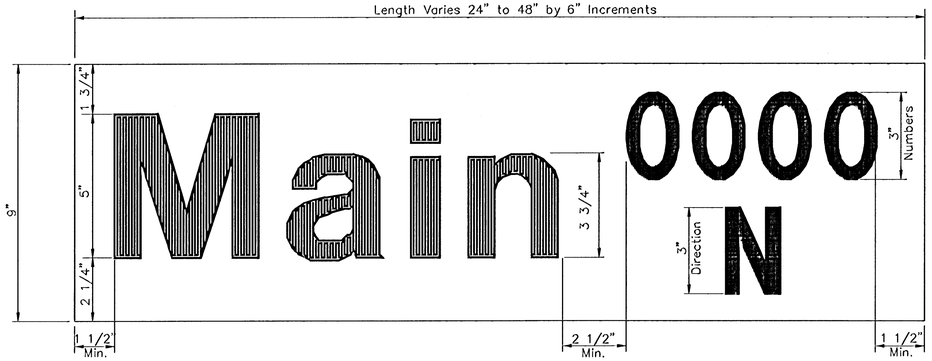
DETAIL A
6 3/4" STANDARD



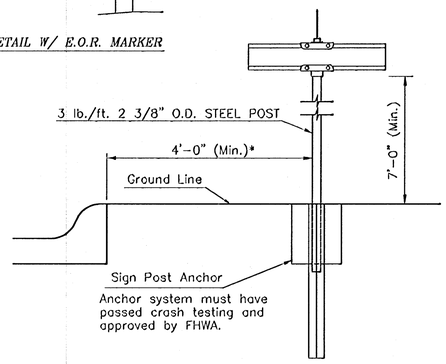
TYPICAL END OF ROADWAY SIGN MOUNTING INSTALLATION



TYPE I BARRICADE DETAIL W/ E.O.R. MARKER

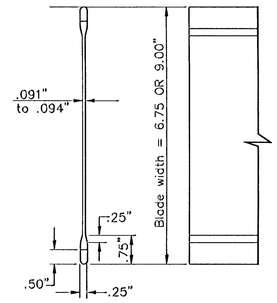


DETAIL B
9" METRO



TYPICAL STREET NAME SIGN MOUNTING INSTALLATION

CURB AND GUTTER SECTION



STREET NAME SIGN
BLADE DETAILS

SIGN ASSEMBLY TABLE

	STATION	*OFFSET*	*SIGN*	*QUANTITY***
	*8+00 **	*37' Rt.*	*R3-7R*	*1*
	*9+00 **	*37' Rt.*	*R3-7R*	*1*
	10+43	*23' Lt.*	*R1-1*	*1*
	11+50	*29' Rt.*	*R2-1*	*1*
	13+05	*50' Lt.*	*R1-1*	*1*
	16+70	*40' Lt.*	*R1-1*	*1*
	21+50	*30' Rt.*	*W1-1R*	*1*
Hoover	*5+50*	*28' Rt.*	*W1-1L*	*1*
	13+30	*30' Rt.*	*W1-7*	*1*
	16+96	*30' Rt.*	*W1-7*	*1*
	TOTAL			*10*

** On Taft West of Julia*
*** For Information Only*

STREET NAME	*NO. BLADES REQ'D*	
	6 3/4" STD	*9" METRO*
Taft	*****	
Carst	*****	
Meadowhaven	*****	
Hoover	*****	

**** RELOCATE EXISTING*

NOTE: REFERENCES BELOW TO "STANDARD SPECIFICATIONS" DENOTE "STANDARD SPECIFICATION FOR STATE ROAD AND BRIDGE CONSTRUCTION EDITION 1990" BY THE KANSAS DEPARTMENT OF TRANSPORTATION.

1. POST ANCHORS: POSTS SHALL BE ANCHORED WITH A YIELDING BASE POST SUPPORT AS DETAILED.
2. POSTS FOR TRAFFIC CONTROL SIGNS: POSTS SHALL CONFORM TO THE REQUIREMENTS OF SUBSECTION 1620 OF THE STANDARD SPECIFICATIONS EXCEPT THAT ALL POSTS SHALL WEIGH 3 LBS./FOOT MINIMUM.
3. POSTS FOR STREET NAME SIGNS (SNS): POSTS SHALL BE 9 FEET LONG, CONSTRUCTED FROM 2 3/8" O.D. GALVANIZED STEEL PIPE WEIGHING A MINIMUM OF 3 LBS./FOOT. POSTS SHALL BE POSITIONED SO THAT THE BOTTOM BLADE IS 7 FEET ABOVE GRADE.
4. POSTS FOR END OF ROADWAY SIGN TO BE 8' LONG AND INSTALLED A MINIMUM OF 4' FROM ROADWAY TO BOTTOM OF SIGN.
5. SIGN BLANKS FOR TRAFFIC CONTROL SIGNS: SIGN BLANKS SHALL BE FABRICATED FROM 0.080" ALUMINUM ALLOY 6063-T6 CONFORMING TO THE REQUIREMENTS OF SUBSECTION 1626 OF THE STANDARD SPECIFICATIONS.
6. SIGN BLADES FOR STREET NAME SIGNS: EXTRUDED ALUMINUM BLADES SHALL BE ALUMINUM ALLOY CONFORMING TO 6063-T6 OR 5052-H38 (ASTM SPECIFICATION B221, LATEST ISSUE). BLADES SHALL HAVE AN ALODINE OR PHOSPHATE ETCHED FINISH. BLADES SHALL HAVE SQUARE CORNERS AND NO HOLES.

   MINIMUM BLADE LENGTH SHALL BE 24". MAXIMUM BLADE LENGTH SHALL BE 48". LENGTH VARIES BY INCREMENTS OF 6".

   BLADES BEARING THE STREET NAMES SHALL BE FIRMLY ATTACHED TO THE MOUNTING BRACKETS USING ALLEN-TYPE SET SCREWS. THE BLADES SHALL BE ORIENTED PARALLEL TO THE STREET.
7. MOUNTING BRACKETS FOR SIGNS: DIE-CAST ALUMINUM BRACKETS SHALL BE ALUMINUM ALLOY 360 HAVING A TENSILE STRENGTH OF 44,000 PSI. THE BRACKETS SHALL BE SMOOTHLY FINISHED FREE OF PITS, BURRS, AND FLAWS. EACH BRACKET SHALL BE TAPPED AND DRILLED FOR 5/16" ZINC-PLATED ALLEN-TYPE SET SCREWS HAVING SELF-LOCKING SAW-TOOTH ENDS.
8. FASTENERS: ALL STEEL FASTENERS FOR TRAFFIC CONTROL SIGNS SHALL BE GALVANIZED AND SHALL CONFORM TO THE REQUIREMENTS OF SUBSECTION 1614 OF THE STANDARD SPECIFICATIONS.
9. REFLECTIVE SHEETING: REFLECTIVE SHEETING SHALL BE TYPE II - HIGH PERFORMANCE CLASS HA IN ACCORDANCE WITH SUBSECTION 2201 OF THE STANDARD SPECIFICATIONS.
10. PROCESS INK: ALL PROCESS INK SHALL CONFORM TO THE REQUIREMENTS OF SUBSECTION 2202 OF THE STANDARD SPECIFICATIONS.
11. DETAILS: REGULATORY AND WARNING SIGNS SHALL CONFORM TO THE DETAILS IN "STANDARD HIGHWAY SIGNS", FHWA, 1979.
12. DETAILS - SNS: THE REFLECTIVE SHEETING FOR THE 6 3/4" STANDARD SIZE SNS IS TO BE THE HIGHWAY GREEN BACKGROUND WITH SILVER-WHITE #2 COPY WITH 4" UPPER CASE AND LOWER CASE PRIMARY COPY AND SUFFIX COPY. BOTH SERIES "C". FACES TO TRIM TO A 6 1/4". (SEE DETAIL A.)

    THE REFLECTIVE SHEETING FOR THE 9" METRO SIZE SNS IS TO BE THE HIGHWAY GREEN BACKGROUND WITH SILVERWHITE #2 COPY WITH 5" UPPER CASE AND LOWER CASE PRIMARY COPY AND SUFFIX COPY, BOTH SERIES "C". THE CARDINAL DIRECTION CENTERED DIRECTLY BELOW THE BLOCK NUMBER SHALL BE AN UPPER CASE, 3" SERIES "C" LETTER. FACES TO TRIM TO A 8 1/2" WIDTH. (SEE DETAIL B.)

    FOR CUL-DE-SAC STREETS, A 9" METRO SIZE BLADE SHALL BE USED WITH THE HOUSE NUMBERS DISPLAYED BENEATH THE STREET NAME. LETTERING TO BE THE SAME AS FOR THE 6 3/4" SIZE BLADE, EXCEPT THAT THE HOUSE NUMBER INFORMATION SHALL BE 4" SERIES "C".

    SHOP DRAWINGS OF LAYOUT FOR SNS SHALL BE SUBMITTED TO THE TRAFFIC ENGINEERING DIVISION OF THE CITY OF WICHITA FOR APPROVAL PRIOR TO FABRICATION. THE FINISHED SIGNS AS SUPPLIED SHALL BE OF GOOD APPEARANCE, FREE FROM RAGGED EDGES, CRACKS SCALES OR BLISTERS AND SHALL BE CLEAN-CUT. SIGNS SHALL BE PACKED IN SUCH MANNER AS TO PREVENT DAMAGE OR DEFACEMENT DURING SHIPMENT OR STORAGE.
13. PERMANENT TRAFFIC CONTROL AND SNS: PERMANENT TRAFFIC CONTROL AND SNS SHALL BE MEASURED AND PAID FOR AT THE LUMP SUM PRICE FOR SIGNING. THE PAYMENT AS SET FORTH ABOVE SHALL BE CONSIDERED FULL COMPENSATION FOR ALL EXCAVATION, BACKFILLING. POSTS, ANCHORS, FASTENERS, MATERIALS, LABOR, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK.

PROJECT NUMBER	SHEET NAME	ENGINEERING DIRECTORY
472 76 245 82757	SIGNDTL	F:\ENG\TAFT\DETAILS

DESIGN	DRAWN	APPROVED	DATE	SCALE	BAUGHMAN NO
C.O.W.	STAFF		SEPT2000	NONE	99-12-E556

CITY OF WICHITA PUBLIC WORKS

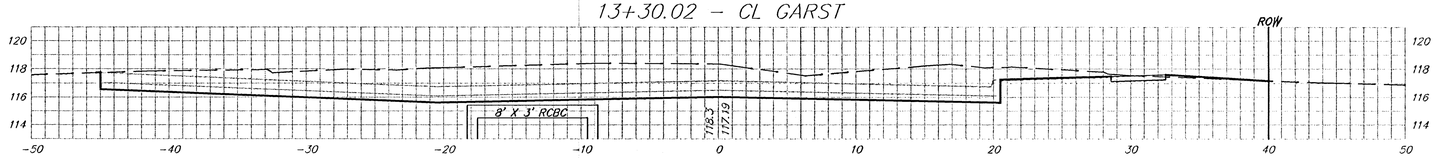
SIGNING DETAIL

TAFT AVENUE - JULIA TO HOOVER

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

SHEET 19 OF 25

13+30.02 – CL GARST



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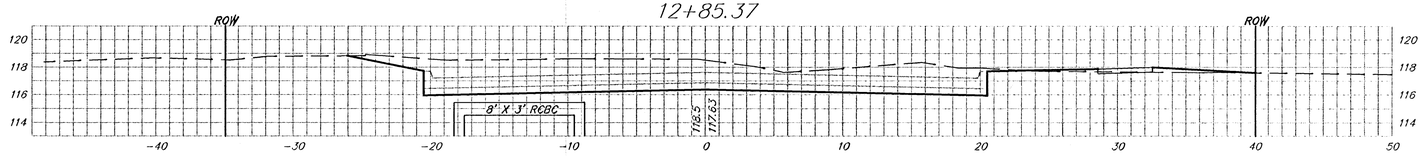

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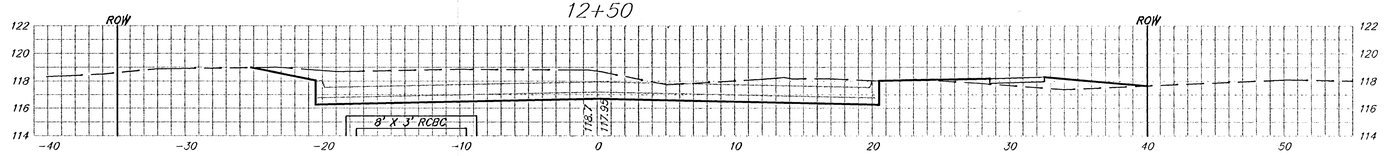

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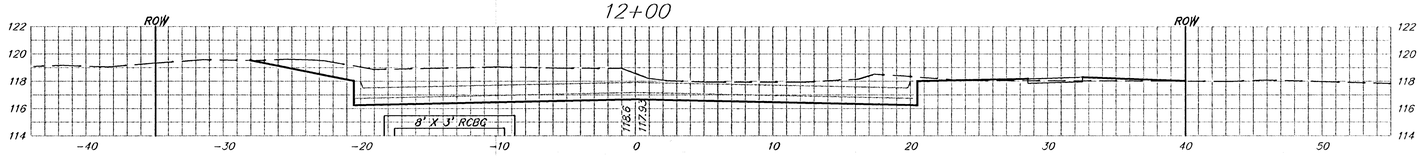

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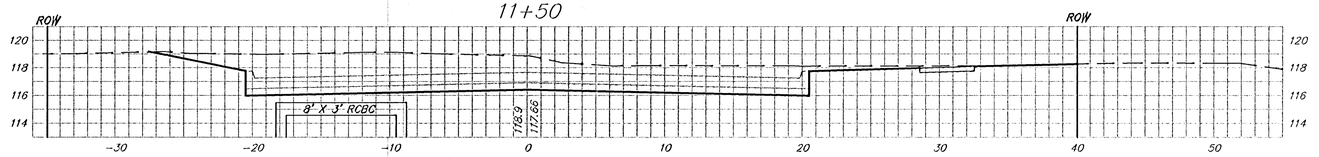

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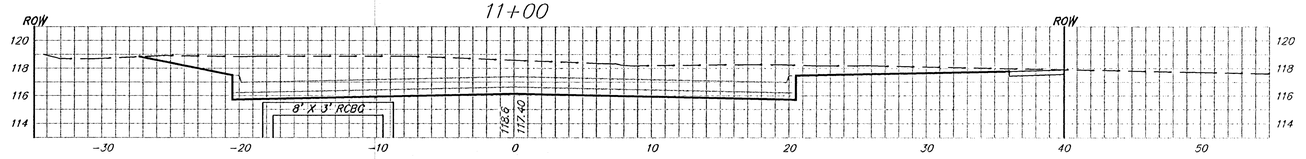

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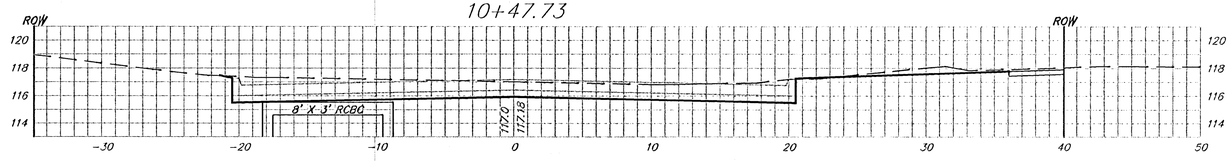
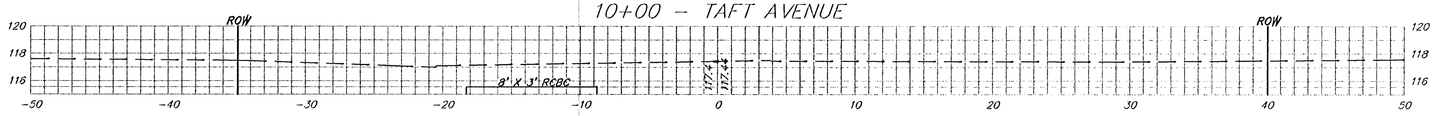


10+00 – TAFT AVENUE



Cross Sections Shown Reflect Bottom of Scarification Limits Using 9" Reinforced Concrete Pavement with 6" Integral Curb. Computed Quantities for Excavation are Based on the Bottom of the Pavement Section Itself. No Additional Compensation will be Granted to the Contractor for Alternate Pavement and/or Curb Sections Constructed.

PROJECT NUMBER			SHEET NAME	ENGINEERING DIRECTORY
472 76 245 82757			XSEC01	F:\ENG\TAFTXS
DESIGN	DRAWN	APPROVED	DATE	SCALE	BAUGHMAN NO
TPV/JFB	TPV	JFB	SEPT 2000	1:5	99-12-E556

STREET IMPROVEMENT FOR
TAFT AVENUE
CROSS SECTIONS
TAFT AVENUE - JULIA TO HOOVER

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

GENERAL NOTES

1. Utility service lines, poles, valve boxes, gas 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. 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.

3. Contractor will be required to provide a minimum advance notice of forty-eight (48) hours to utility companies prior to excavation or working adjacent to utilities.
Kansas One-Call 687-2470

4. The Contractor shall notify pipeline companies at least forty-eight (48) hours in advance of any work being performed across from and/or adjacent to any pipelines.

5. 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 or removal shall extend to the existing joint. Such saw cuts will not be paid for directly and this cost shall be considered INCIDENTAL to the removal of the surface or pavement.

6. All project waste including any trees, milled asphalt, rubble from miscellaneous structures, abandoned pipes, excess excavation & etc. 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.

7. The Engineer in charge of construction shall be responsible for preserving all sections line & block corner monuments. The Engineer shall procure a licensed Land Surveyor to take accurate ties to said monuments as well as submittal of the required forms to the Dept. of Archives, Kansas State History Society. The Contractor shall set a City survey monument in the required location where said monuments fall within the limits of pavement construction. Survey monuments will be furnished by the City. A licensed Land Surveyor shall locate and install the iron within the monument.

8. Prior to bidding the project, each bidder shall visit the site and satisfy himself of surface & subsurface conditions. Each bidder shall also fully inform himself as to the extent of the scope of work to be performed.

9. Contractor shall be aware that some gas & telephone lines within the project corridor may have been abandoned in place as new lines are installed. The Contractor shall be responsible for contacting the appropriate owners to determine the status of said lines.

10. The Water Department shall field locate water valves one time during construction when requested by the Contractor. It shall be the Contractor's responsibility to preserve such field locations during the construction process. Water valves, water valve boxes or fire hydrant damaged during construction shall be repaired by the Contractor at his own expense.

11. The Contractor shall be made aware that he will be working in close proximity of existing utilities. Any conflicts with such utilities shall be reported to the Engineer. The Contractor shall coordinate the construction of this project with relocation of any existing utilities by the utility companies.

12. Existing SWS pipes that will be connected to new inlets shall be flushed and cleaned from the first existing junction with all debris removed prior to hook-up. Connection of existing storm sewer to proposed conduits and/or structures shall not be paid for directly, but shall be considered INCIDENTAL to the pipe or conduit being installed.

13. The Lump Sum Bid Item "Site Restoration" shall INCLUDE all costs for relocating or reconstructing traffic signs, temporary pole bracing, final grading of the work area, and other such items requiring replacement for which a pay item is not provided for in the Proposal.

14. Properties within the project limits may have underground sprinkler systems in public right-of-way which conflict with new construction. The Contractor will be required to repair or replace any system disturbed by project construction. Portions of underground sprinkler systems not in conflict with new construction shall be protected from damage and shall remain in place. All work in connection with underground sprinkler systems shall be considered INCIDENTAL to other items in the Project.

15. Manhole tops indicated to be adjusted shall include new standard ring and cover castings except where noted. Castings removed shall be stockpiled within the right-of-way & picked up by City Crews. Cost of removal and stockpiling shall be INCIDENTAL to "Removal of Existing Structures".

16. Contractor shall be responsible for implementing erosion control methods during construction to prevent unnecessary silt/sediment discharge through downstream properties and/or storm sewer systems. Contractor shall install and maintain erosion controls as directed by the Engineer These controls may include but not limited to: hay bales; silt fences, temporary mulching or other controls necessary to inhibit sediment runoff during construction.

17. Removal of all signs, foundations, abandoned pipes, fences, trees, shrubs, stumps, drain pipes (<12"), pavement markings, and any other items slated for removal for which a pay item is not provided shall be INCLUDED in the lump sum bid item "R/W Clearing and Site Preparation."

18. The Contractor shall remove and stockpile within the right-of-way all regulatory signs, street name signs, information signs, and etc. for salvage & pick-up by the City Crews. Cost of removal and stockpiling shall be INCIDENTAL to the Project.

19. Trees and Shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed and disposed of 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.

20. All sign post, light pole and traffic signal removal shall include removal of footings as INCIDENTAL to such removal.

21. Driveway widths and locations shown on the plan are tentative Contractor shall be required to obtain properly executed driveway request form signed by the property owner or an authorized representative verifying such driveway widths and locations. Such forms shall be submitted to the Engineer for his review and approval.

22. New Sidewalk shall have a maximum side slope of not more than one-half inch (1/2") per foot and a maximum longitudinal slope of five (5) percent unless otherwise approved by the Engineer. The sidewalk location shown on the plan is tentative The Contractor shall be aware that the final sidewalk alignment may be subject to field changes based on the new location of power poles, utility pedestals, and trees. However, the Contractor shall make every effort to adhere to the sidewalk plan with respect to slope and drainage conditions.

23. The Contractor shall not start work on the Project until the Project Inspector is assigned and is present on site. Any work done without inspection will be required to be uncovered for inspection.

24. Areas over-excavated in surface or pavement removal shall be filled to sub grade elevation and compacted to 95% Std. Density. Cost shall be INCIDENTAL to the Project.

25. Georgrid Reinforcement for the rock base shall be Tensar BX1100 as manufactured by the Tensar Corporation, or approved equal. Geogrid fabric shall be INCIDENTAL to the bid item "Reinf. Crushed Rock Base."

26. The crushed rock base under valley gutters, concrete pavement, and bituminous pavement shall conform to the following limits:

Sieve Size	% Passing
2-1/2"	100
3/4"	40-80
No. 4	20-50
No. 40	6-20
No. 200	2-10

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

27. The Contractor shall comply with all applicable safety regulations.

28. TRAFFIC CONTROL:
Taft Avenue may be closed to traffic during construction. Hoover may be closed to traffic north of the construction limits during construction. Contractor shall provide, erect, and maintain traffic control devices in accordance with the Manual on Uniform Traffic Control Devices (M.U.T.C.D) subject to the Engineer's approval. Access to Residences shall be maintained at all stages of the project.

One lane of traffic in each direction must be maintained on Julia and on Taft Avenue west of Julia during construction in the intersection. Contractor shall provide, erect, and maintain traffic control devices in accordance with the Manual on Uniform Traffic Control Devices (M.U.T.C.D) subject to the Engineer's approval.

LIST OF UTILITY COMPANIES

Contractor will be required to provide a minimum advance notice of forty-eight (48) hours to utility companies prior to excavation or working adjacent to utilities.

TYPE	OWNER	PHONE #
Locator Service	Kansas One-Call	687-2470
TV	Cox Communications	262-0661
Security	Multimedia Security Systems	263-2061
Electric	Kansas Gas & Electric Company	383-8600
Gas	Kansas Gas Service	832-3101
Telephone	Southwestern Bell Telephone Company	800-344-7233
Water	City of Wichita Water Department	268-4908
Sewer	City of Wichita Sewer Maintenance	268-4071

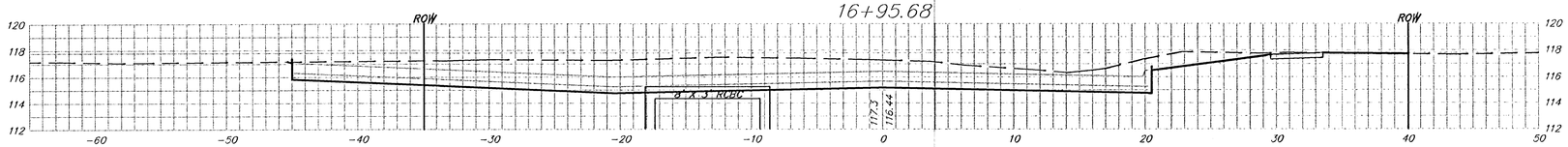
PROJECT NUMBER	SHEET NAME	ENGINEERING DIRECTORY
472 76 245 82757	NOTEPAGE	F:\ENG\TAFT\

DESIGN	DRAWN	APPROVED	DATE	SCALE	BAUGHMAN NO
JFB/TPV	KWR		SEPT 2000	NONE	99-12-E556

STREET IMPROVEMENTS
GENERAL NOTES
TAFT AVENUE - JULIA to HOOVER

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

16+95.68



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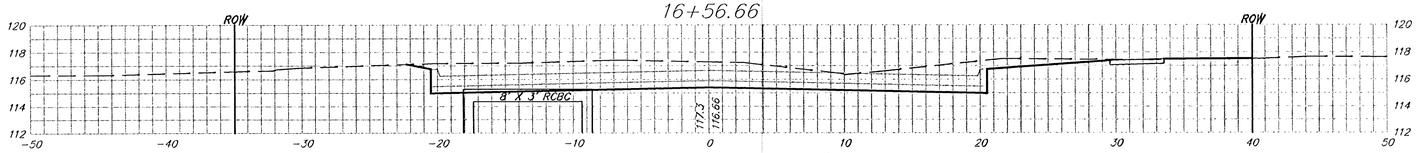

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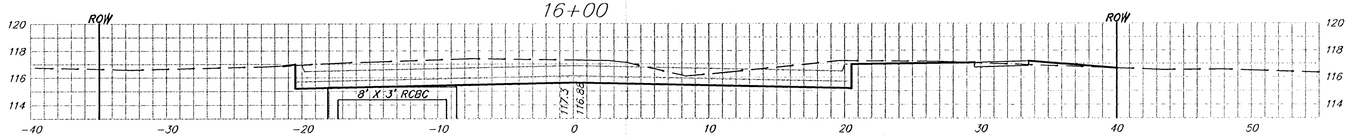

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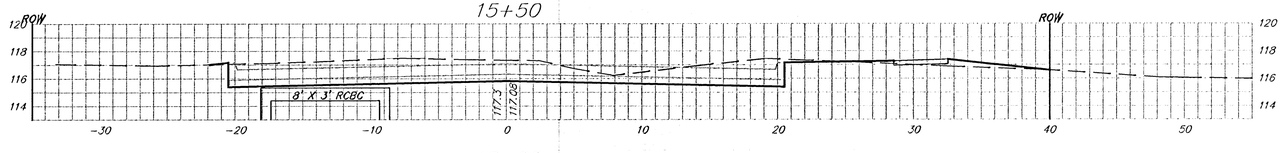

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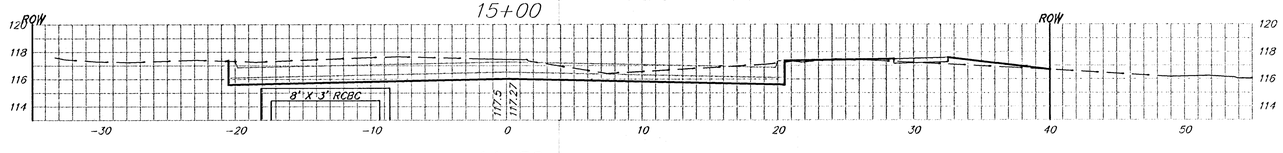

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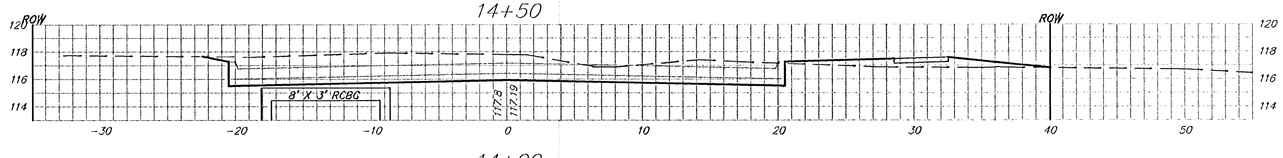

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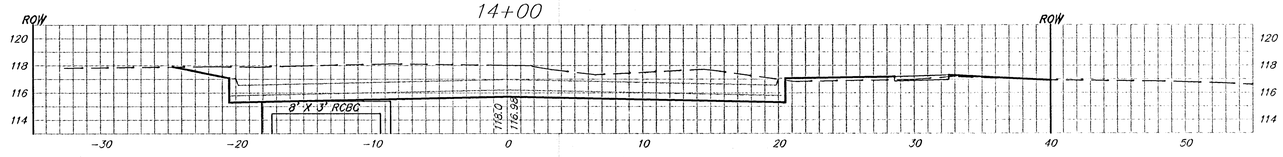

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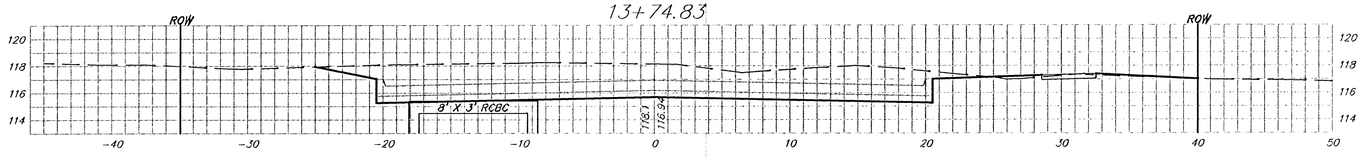


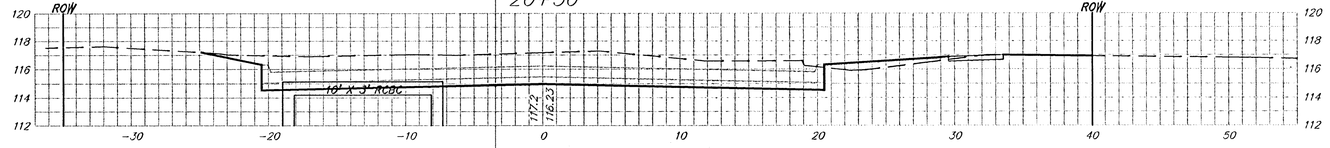
PROJECT NUMBER	SHEET NAME	ENGINEERING DIRECTORY
472 76 245 82757	XSEC02	F:\ENG\TAFTXS

DESIGN	DRAWN	APPROVED	DATE	SCALE	BAUGHMAN NO
TPV/JFB	TPV	JFB	SEPT 2000	1:5	99-12-E556

STREET IMPROVEMENTS FOR
TAFT AVENUE
CROSS SECTIONS
TAFT AVENUE- JULIA TO HOOVER

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

20+50



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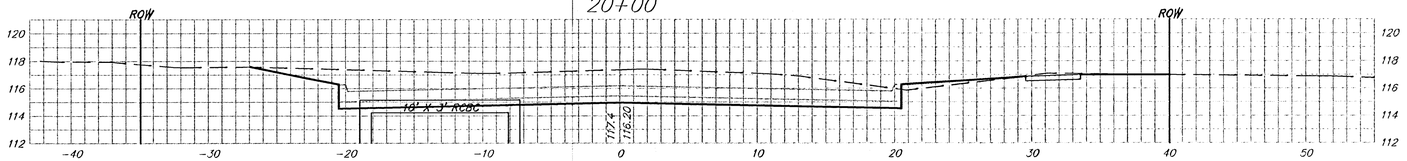

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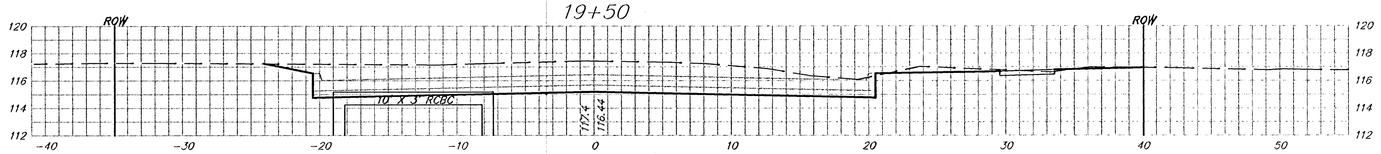

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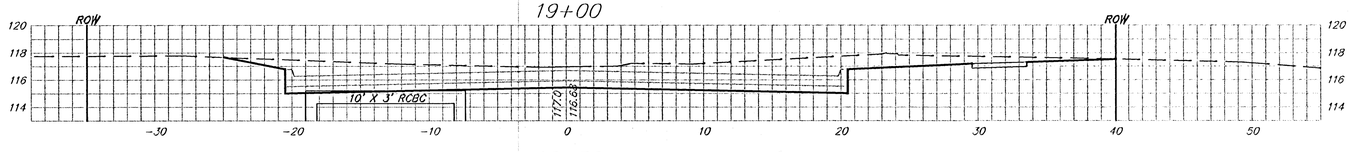

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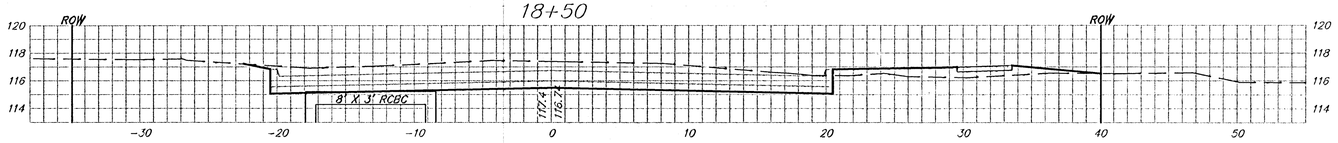

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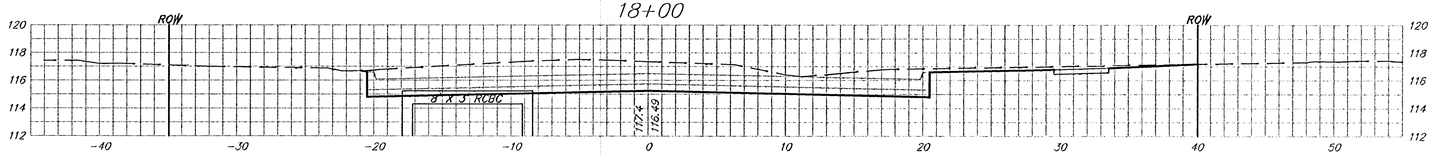

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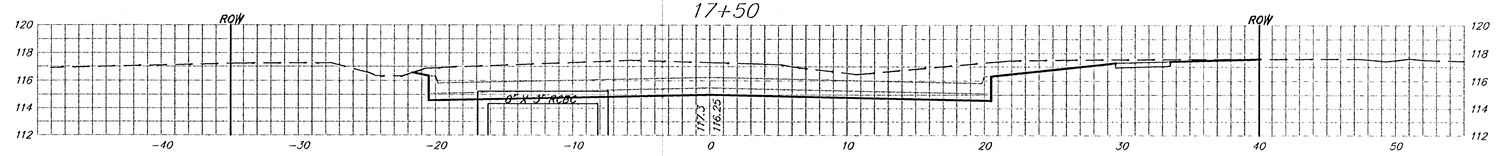

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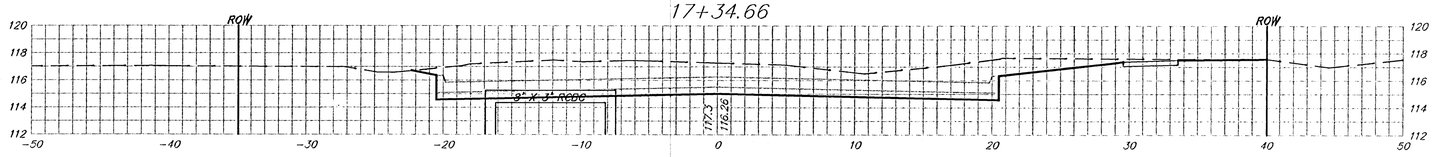


PROJECT NUMBER	SHEET NAME	ENGINEERING DIRECTORY
472 76 245 82757	XSEC03	F:\ENG\TAFTXS

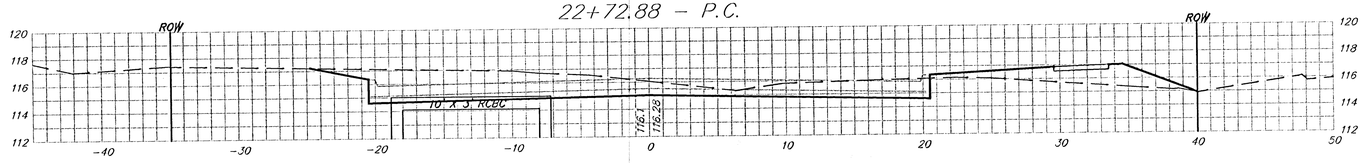
DESIGN	DRAWN	APPROVED	DATE	SCALE	BAUGHMAN NO
TPV/JFB	TPV	JFB	SEPT 2000	1:5	99-12-B556

STREET IMPROVEMENTS FOR
TAFT AVENUE
CROSS SECTIONS
TAFT AVENUE - JULIA TO HOOVER

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

SHEET 22 OF 25

22+72.88 – P.C.



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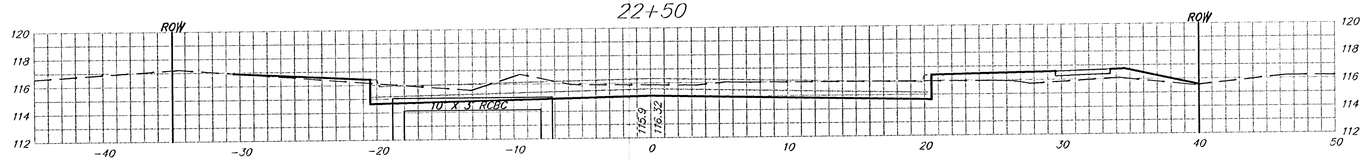

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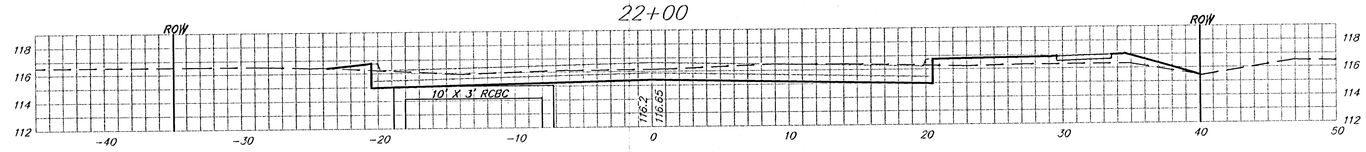

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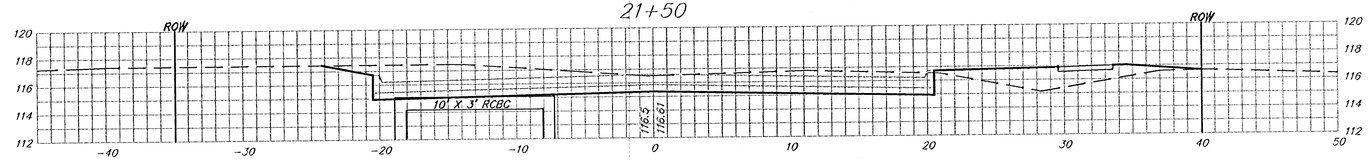

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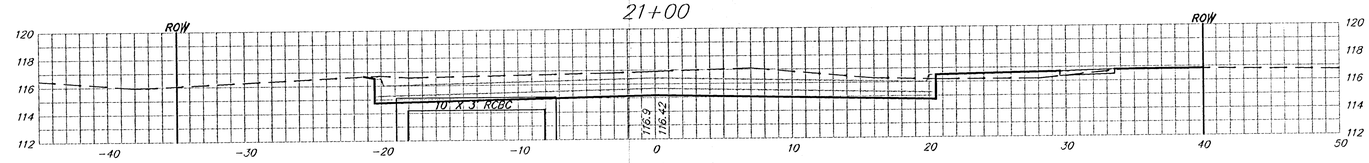

PROJECT NUMBER	SHEET NAME	ENGINEERING DIRECTORY
472 76 245 82757	XSEC04	F:\ENG\TAFTXS

DESIGN	DRAWN	APPROVED	DATE	SCALE	BAUGHMAN NO
TPV/JFB	TPV	JFB	SEPT 2000	1:5	99-12-E556

STREET IMPROVEMENTS FOR
TAFT AVENUE
CROSS SECTIONS
TAFT AVENUE - JULIA TO HOOVER

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

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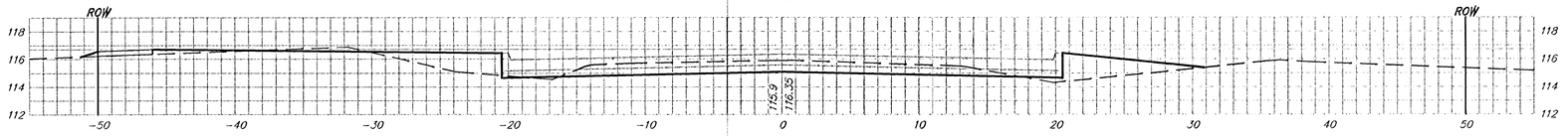

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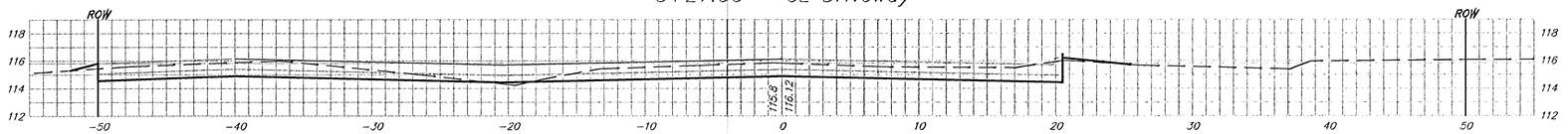

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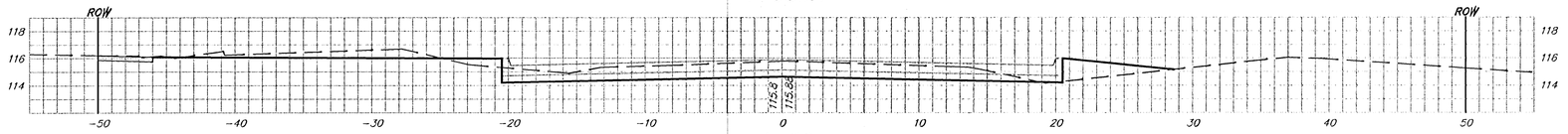

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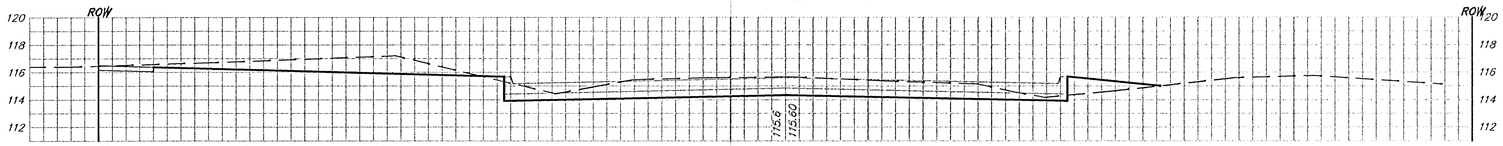

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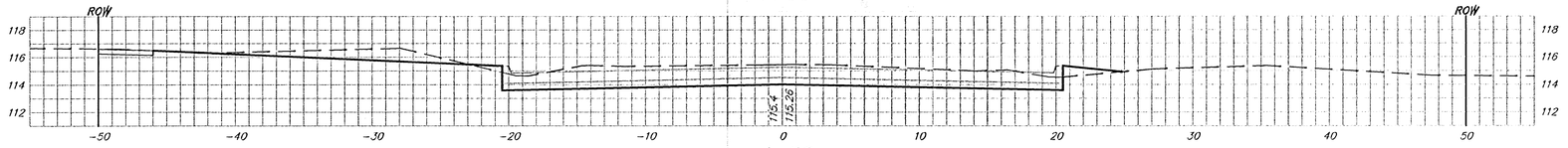

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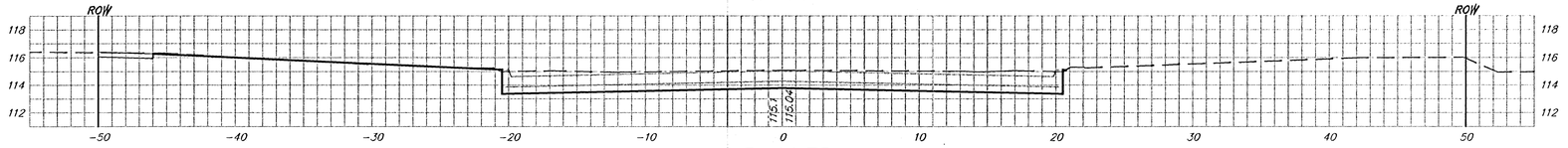

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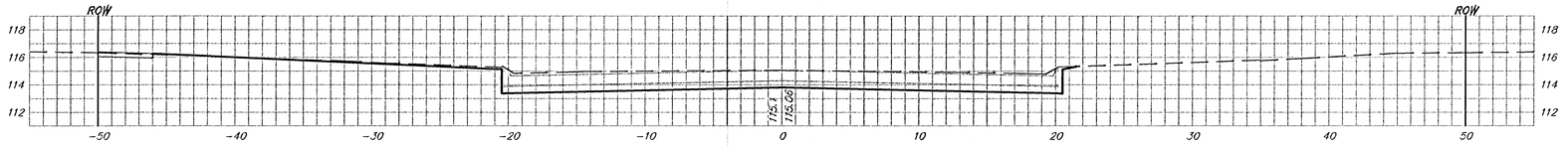
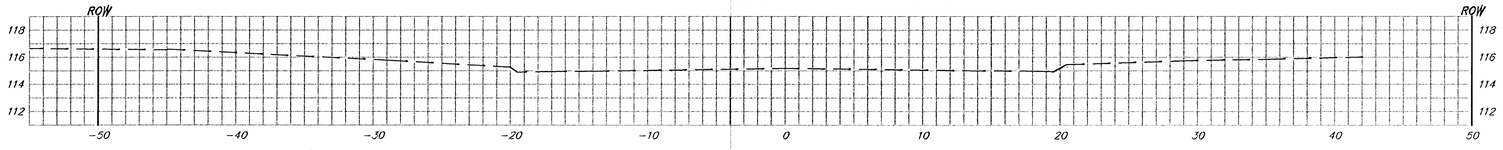


3+00 – HOOVER



PROJECT NUMBER			SHEET NAME	ENGINEERING DIRECTORY
472 76 245 82757			XSEC05	F:\ENG\TAFTXS
DESIGN	DRAWN	APPROVED	DATE	SCALE	BAUGHMAN NO
TPV/JFB	TPV	JFB	SEPT 2000	1:5	99-12-E556

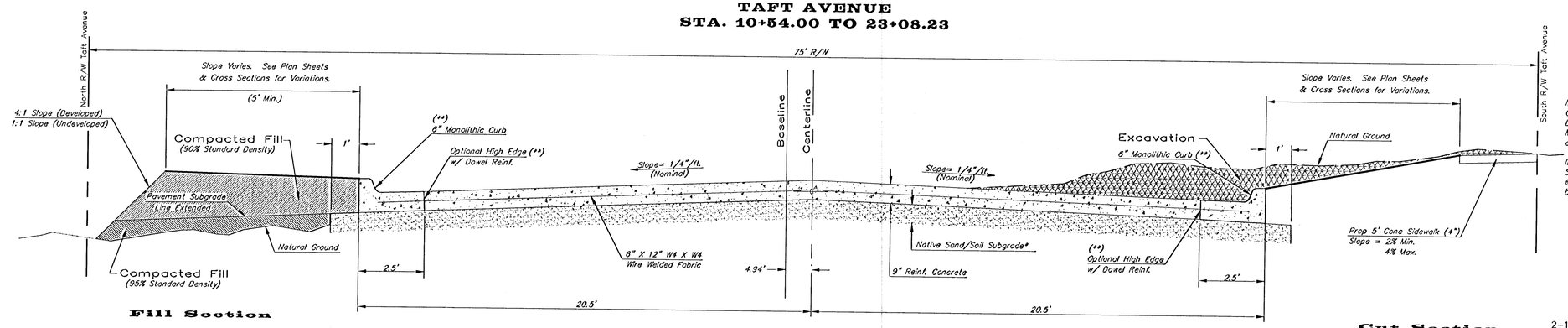
STREET IMPROVEMENTS FOR
HOOVER
CROSS SECTIONS
TAFT AVENUE - JULIA TO HOOVER

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

SHEET 24 OF 25

PAVEMENT DETAIL

TAFT AVENUE
STA. 10+54.00 TO 23+08.23

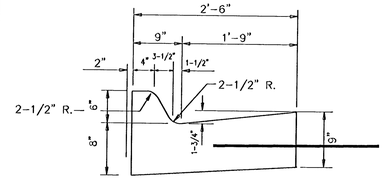


Fill Section **Cut Section**

(**) Contractor to Either Construct 6" Curb and Gutter with Dowel Reinforcement, or Construct 6" Integral Curb. Cost to be INCIDENTAL "6" Monolithic Curb".

In Fill Section, Native Sand/Soil Subgrade must be Compacted a minimum of 95% Standard Proctor Density at Optimum Moisture Content. Optimum Moisture Content to be maintained prior to concrete placement.

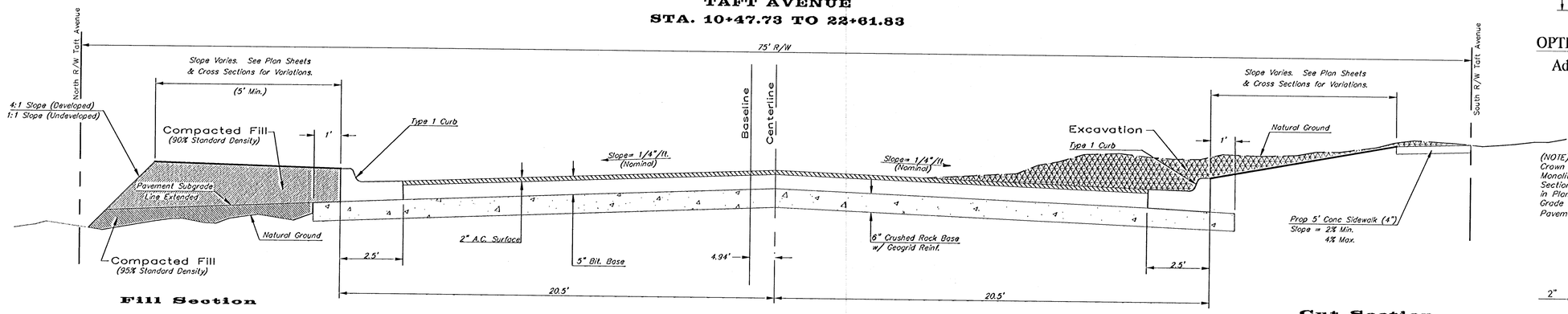
In Cut Section, Native Sand/Soil Subgrade to be Scarified to 6" Below Pavement Section & Compacted @ Optimum Moisture Content. Moisture Content to be Maintained Prior to Concrete Placement.



OPTIONAL CURB & GUTTER - (6")
Adjacent to Concrete Pavement

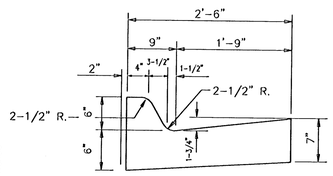
ALTERNATE PAVEMENT DETAIL

TAFT AVENUE
STA. 10+47.73 TO 22+61.83



Fill Section **Cut Section**

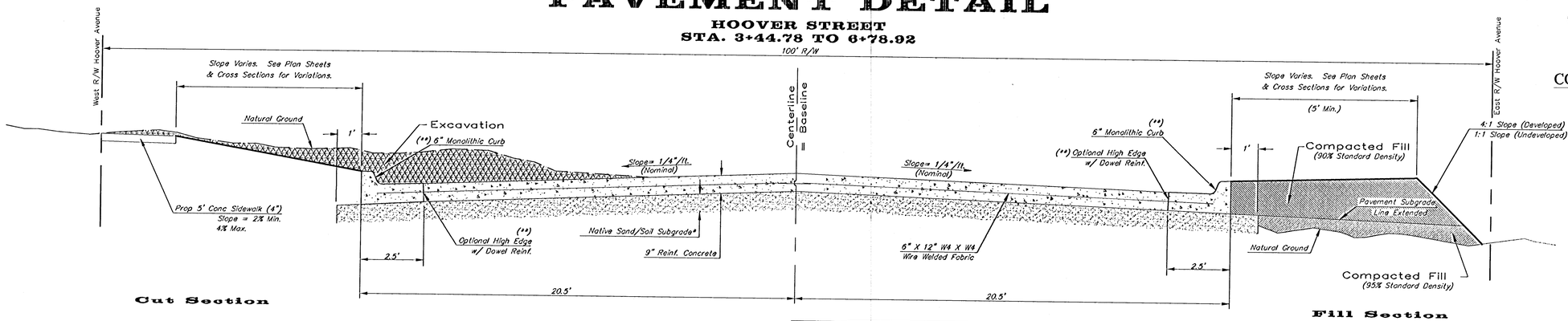
(NOTE) Crown Grades Shown on Plan Sheets Reflect Monolithic Pavement Section. If Curb & Gutter Section is to be Constructed, Curb Grades Shown in Plan Sheets Shall Remain the Same and Crown Grade Shall be Adjusted to Maintain Minimum Pavement Slopes (High Edge to Crown).



COMBINED CURB & GUTTER - (6")
Adjacent to Asphalt Pavement
Type 1

PAVEMENT DETAIL

HOOVER STREET
STA. 3+44.78 TO 6+78.92



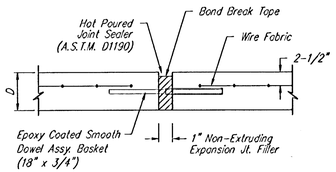
Cut Section **Fill Section**

COMBINED CURB & GUTTER - (6")
Adjacent to Asphalt Pavement
Type 1

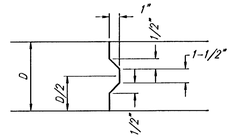
PROJECT NUMBER			SHEET NAME	ENGINEERING DIRECTORY
472 76 245 82757			TYPSEC	F:\ENG\TAFT
DESIGN	DRAWN	APPROVED	DATE	SCALE	BAUGHMAN NO
JFB/TPV	KWR		SEPT 2000	NONE	99-12-B556

STREET IMPROVEMENTS
TYPICAL PAVEMENT SECTIONS
TAFT AVENUE - JULIA to HOOVER

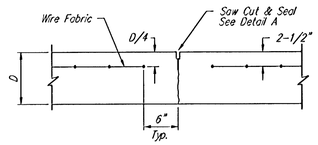
BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
(316) 262-7271 * 315 ELLIS * WICHITA, KANSAS 67211



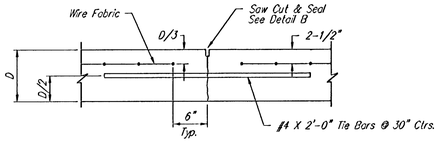
EXPANSION JOINT



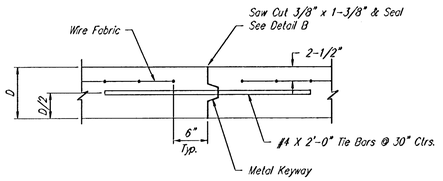
KEYWAY DETAIL



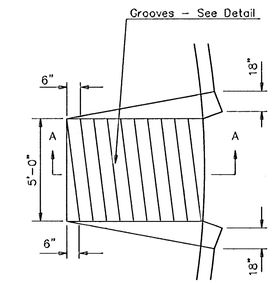
CONTRACTION JOINT DETAIL (C.J.)



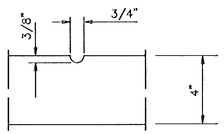
LONGITUDINAL JOINT DETAIL (L.J.)



OPTIONAL LONGITUDINAL JOINT DETAIL (L.J.)
(CONSTRUCTION JOINT)

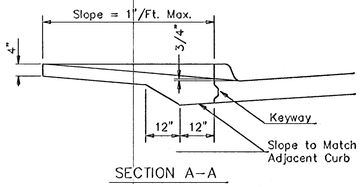


WHEELCHAIR RAMP PLAN VIEW

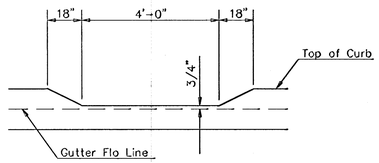


GROOVE DETAIL

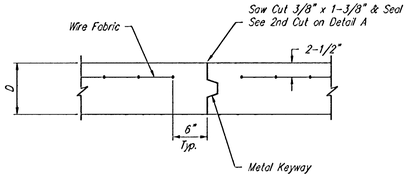
WHEELCHAIR RAMP DETAIL



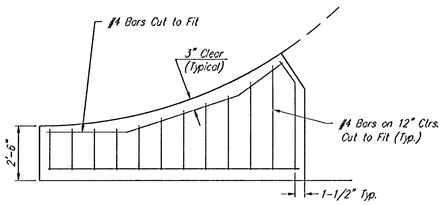
SECTION A-A



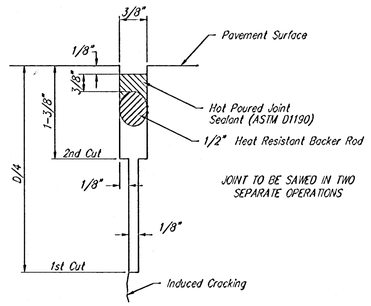
DEPRESSED CURB DETAIL



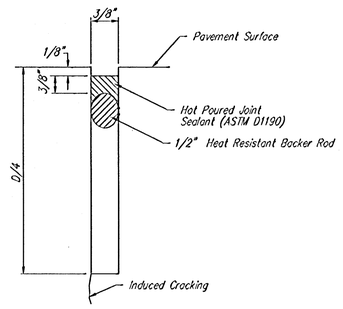
OPTIONAL CONTRACTION JOINT
(CONSTRUCTION JOINT)



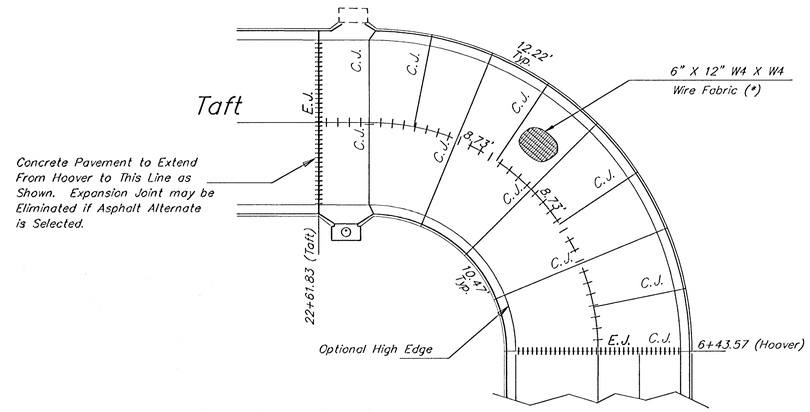
WING REINFORCING DETAIL



SAW JOINT DETAIL "A"



SAW JOINT DETAIL "B"

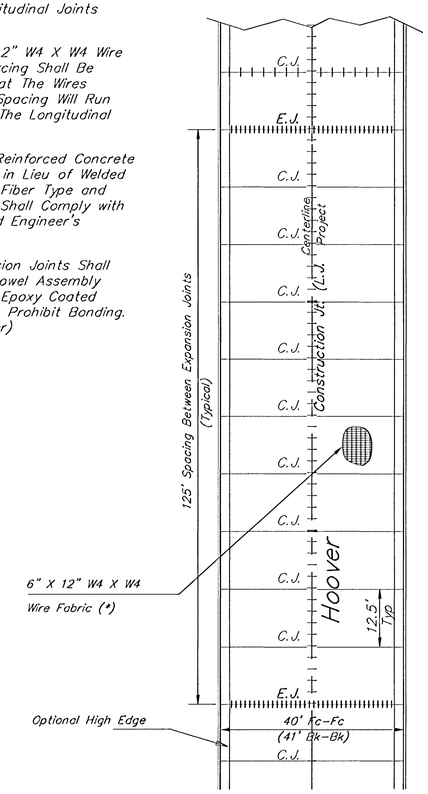


C.J. = Construction Joints
L.J. = Longitudinal Joints

NOTE: 6" X 12" W4 X W4 Wire Fabric Reinforcing Shall Be Placed So That The Wires With The 6" Spacing Will Run Parallel With The Longitudinal Joints.

* NOTE: Fiber Reinforced Concrete May be Used in Lieu of Welded Wire Fabric. Fiber Type and Mixture Rate Shall Comply with City Spec and Engineer's Approval.

NOTE: Expansion Joints Shall Be Smooth Dowel Assembly Basket Type, Epoxy Coated & Greased to Prohibit Bonding. (Load Transfer)

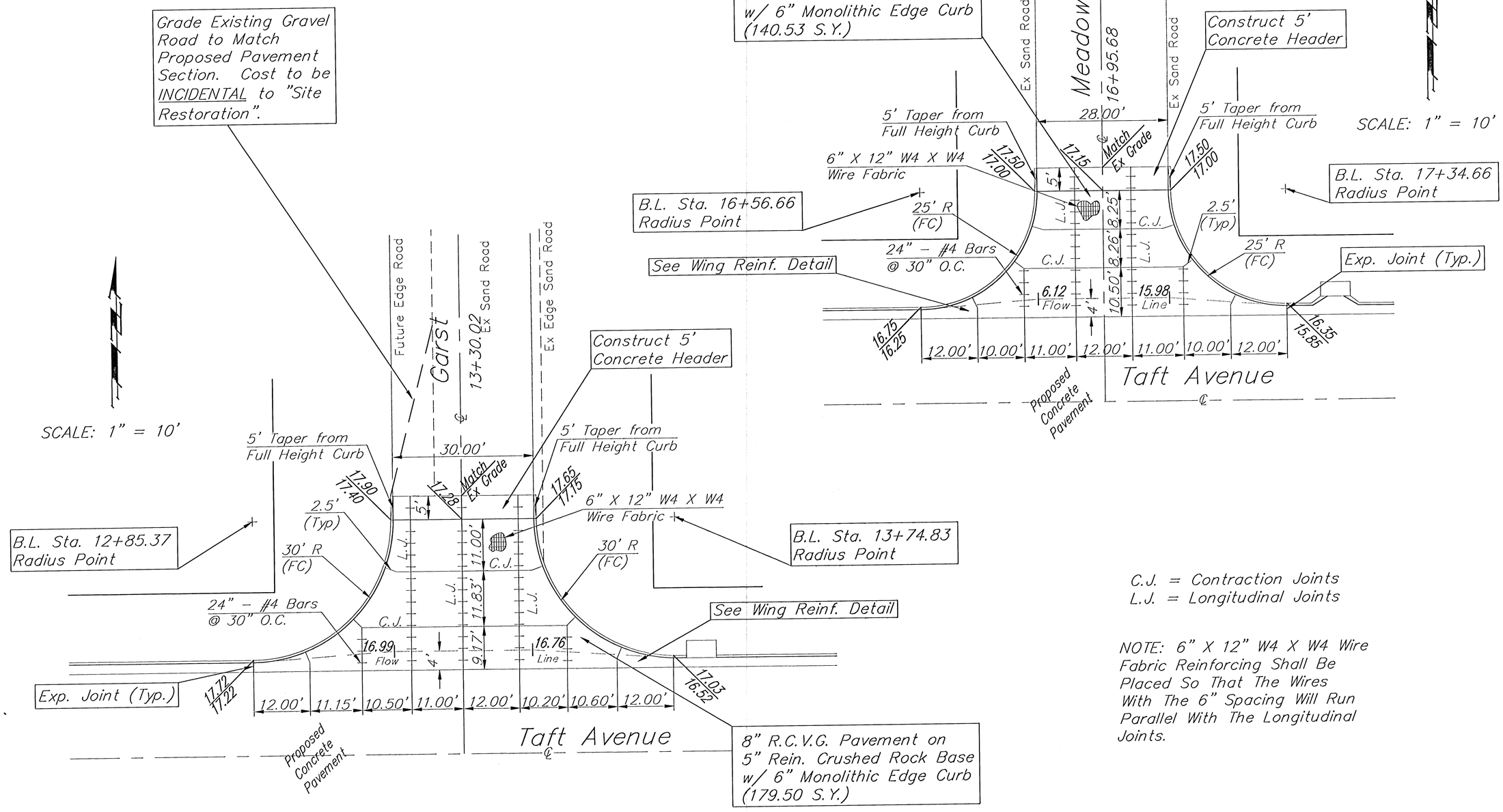


TYPICAL JOINT DETAIL

PROJECT NUMBER			SHEET NAME	ENGINEERING DIRECTORY	STREET IMPROVEMENTS
472 76 245 82757			PAVEDET	F:\ENG\TAFT\DETAILS	PAVEMENT DETAILS
DESIGN	DRAWN	APPROVED	DATE	SCALE	BAUGHMAN NO
STAFF	STAFF		SEPT 2000	NONE	99-12-E556

TAFT AVENUE - JULIA TO HOOVER

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



C.J. = Contraction Joints
L.J. = Longitudinal Joints

NOTE: 6" X 12" W4 X W4 Wire Fabric Reinforcing Shall Be Placed So That The Wires With The 6" Spacing Will Run Parallel With The Longitudinal Joints.

PROJECT NUMBER	SHEET NAME	ENGINEERING DIRECTORY
472 76 245 82757	VG	F:\ENG\TAFT\DETAILS

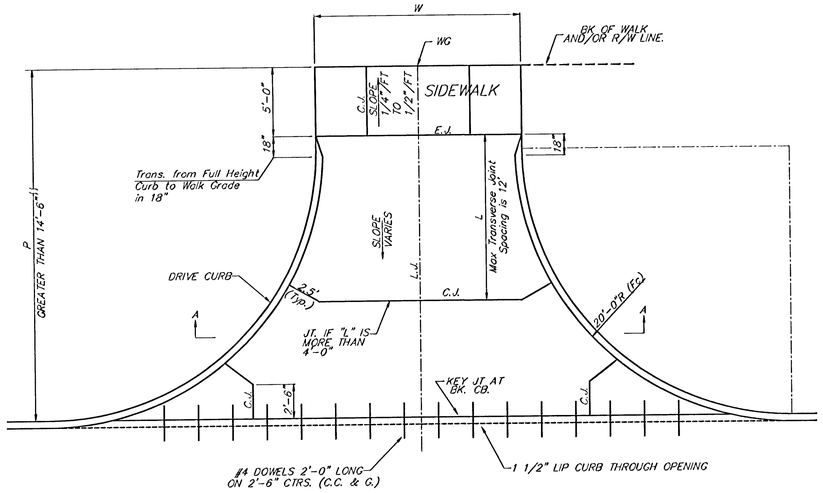
DESIGN	DRAWN	APPROVED	DATE	SCALE	BAUGHMAN NO
TPV/JFB	TPV		SEPT 2000	NOTED	99-12-E556

STREET IMPROVEMENTS

VALLEY GUTTER DETAILS

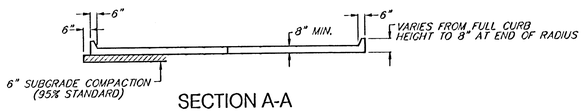
TAFT AVENUE - JULIA TO HOOVER

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

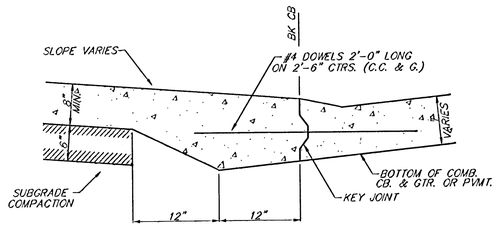


PARKING WIDTH "P"	14.5'	20'	25'	30'	35'	40'	45'	50'
ABSOLUTE MAX. DIST. OF P.T. "WG" ABOVE TOP OF FULL CURB	0.80'	1.35'	1.85'	2.35'	2.85'	3.35'	3.85'	4.35'
OPTIMUM MAX. DIST. OF P.T. "WG" ABOVE TOP OF FULL CURB	0.70'	1.04'	1.30'	1.56'	1.82'	2.08'	2.34'	2.60'
OPTIMUM MIN. DIST. OF P.T. "WG" ABOVE TOP OF FULL CURB	0.30'	0.42'	0.52'	0.62'	0.72'	0.82'	0.92'	1.02'
ABSOLUTE MIN. DIST. OF P.T. "WG" ABOVE TOP OF FULL CURB	0.00'	0.00'	0.15'	0.25'	0.35'	0.45'	0.55'	0.65'

COMMERCIAL FULL RADIUS DRIVE
(P = 14.5' & GREATER)



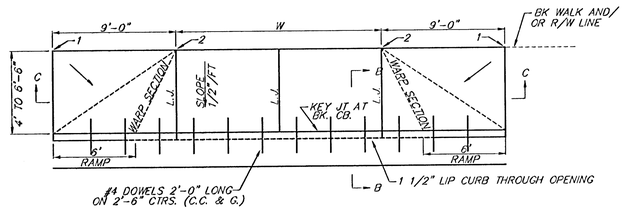
SECTION A-A

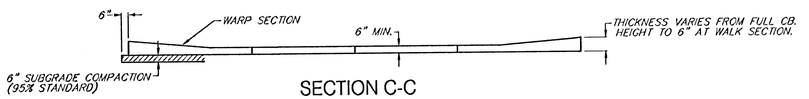


BACK OF CURB DETAIL
SECTION B-B (NO SCALE)

GENERAL NOTES

1. DRIVEWAY CONSTRUCTION DETAILED ON THIS SHEET IS FOR USE WITH FULL HEIGHT STREET CURBS AND IN AREAS WITHOUT FULL WALK CONSTRUCTION IN THE PARKING.
2. ONE LONGITUDINAL JOINT SHALL BE CONSTRUCTED ALONG THE CENTERLINE OF DRIVES HAVING A "W" DIMENSION OF 24' OR LESS. TWO LONGITUDINAL JOINTS SHALL BE CONSTRUCTED WITH EQUAL SPACINGS NOT TO EXCEED 10' FOR DRIVES WITH A "W" DIMENSION GREATER THAN 24'.
3. DRIVEWAY WIDTH DENOTED AS "W" ON THE DETAIL DRAWINGS SHALL BE A MINIMUM OF 10' AND A MAXIMUM OF 30'. THE MAXIMUM OPENING FOR RADIUS TYPE DRIVES WITH CURBS THROUGH THE RADIUS SHALL NOT EXCEED 52' AT THE STREET CURB LINE.
4. CONSTRUCTION JOINT SPACING IN THE DRIVEWAY WALK SECTION SHALL BE A MINIMUM OF 3' AND A MAXIMUM OF 6' AND ARE TO BE EQUALLY SPACED WITHIN THIS RANGE. WALK SECTION SHALL BE CONSTRUCTED TO THE SAME THICKNESS AS THE DRIVEWAY.
5. DOWEL BARS SHALL BE OMITTED FROM THE KEYED CONSTRUCTION JOINT ALONG THE BACK OF THE STREET CURB LINE WHEN DRIVEWAYS ARE CONSTRUCTED IN CONJUNCTION WITH NEW CONCRETE PAVEMENT CONSTRUCTION.
6. ADDITIONAL THICKNESS OF DRIVE AS INDICATED IN THE DRAWINGS WILL NOT BE PAID FOR DIRECTLY AND THIS COST SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE DRIVEWAY CONSTRUCTION.
7. ONE HALF INCH EXPANSION JOINTS SHALL BE INSTALLED WHEREVER DRIVE CONSTRUCTION ABUTS SIDEWALK. ONE HALF INCH EXPANSION JOINTS SHALL ALSO BE INSTALLED ALONG THE PROPERTY LINE AND/OR BACK OF WALK LINE WHEN DRIVE CONSTRUCTION ALONG THIS LINE ABUTS CONCRETE PARKING LOTS OR CONCRETE DRIVE EXTENSION.
8. ALL COMMERCIAL DRIVEWAYS SHALL BE A MINIMUM OF 8" IN THICKNESS, ALL RESIDENTIAL DRIVEWAYS SHALL BE A MINIMUM OF 6" IN THICKNESS, AND EACH SHALL BE WITH REINFORCEMENT. DRIVEWAYS MAY BE CONSTRUCTED THICKER THAN SPECIFIED WITH 6"X12" W4-W4 WELDED WIRE FABRIC WHEN PROPERLY AUTHORIZED BY THE PROPERTY OWNER WITH THE ENGINEERS CONCURRENCE. NO EXTRA PAYMENT WILL BE MADE FOR DRIVEWAYS THICKER THAN 8".
9. OPTIMUM DRIVEWAY ELEVATIONS SHOWN IN THE TABLES ARE TO BE USED WHEREVER POSSIBLE. ABSOLUTE MAXIMUM AND MINIMUM ELEVATIONS ARE TO BE USED ONLY WHEN THESE VALUES WILL PERMIT NEW CONSTRUCTION TO MATCH EXISTING DRIVES OR PARKING LOTS. VALUES SHOWN IN THE TABLES ARE BASED ON A FULL CURB HEIGHT ELEVATION OF 0.55' ABOVE THE GUTTER FLOW LINE AND MUST BE ADJUSTED ACCORDINGLY FOR OTHER CURB HEIGHTS. VALUES SHOWN IN THE TABLES WITH MINUS SIGNS INDICATE ELEVATIONS BELOW TOP OF FULL HEIGHT CURB.





SECTION C-C

PARKING WIDTH "P"	4'	4.5'	5'	5.5'	6'	6.5'
DIST. OF PT "1" ABOVE TOP OF FULL CURB	0.08'	0.09'	0.10'	0.12'	0.13'	0.14'
DIST. OF PT "2" BELOW TOP OF FULL CURB	-.26'	-.24'	-.22'	-.20'	-.18'	-.16'

FULL RAMP DRIVE
(P = 4.0' TO 6.5')

PROJECT NUMBER	SHEET NAME	ENGINEERING DIRECTORY
472 76 245 82757	STDDRV	F:\ENG\TAFT\DETAILS

DESIGN	DRAWN	APPROVED	DATE	SCALE	BAUGHMAN NO
STAFF	STAFF		SEPT 2000	NONE	99-12-E556

STREET IMPROVEMENTS
STANDARD DRIVE ENTRANCES
TAFT AVENUE - JULIA TO HOOVER

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

BENCHMARKS:

"x" Cut in the Sidewalk Located 45 ft. South and 35 ft. West of the Intersection of Julia and Taft. Elevation = 117.61 (City Datum)

SCALE: 1" = 20'

ELEV = 117.24 | +0.536% | P.V.I. ELEV = 118.21 60' V.C. | -0.977% | P.V.I. ELEV = 116.93 65' V.C. | +0.412%

Sta. 10+54.00 SUMP | Sta. 12+35.00 P.V.I. | Sta. 13+66.00 P.V.I. | Sta. 14+25.00 MATCH LINE

Sta. 13+30.02 ℄ GARST

D-18466-17BL-1

WEST MAPLE GARDENS LOT 10

WEST MAPLE GARDENS LOT 5

TONY STRUNK ADDITION LOT 8

THE LANDING 2ND ADDITION LOT 1

WEST KELLOGG POWER CENTER ADDITION LOT 2

TAFT AVE.

JULIA STREET

Remove & Replace Conc Pavement to Pavement Joints as Shown See Detail, Sheet 12.

Install R1-1 Sign

CAUTION! U/G Utility Crossings!

Construct 9" Reinf. Concrete Pavement. See Typical Section, Sheet 4.

Adjust Ex Brick SS Manhole to Match Final Grade Ex Elev = 118.39 Prop Elev = 117.67

Adjust Ex Water Valve to Match Final Grade

(*) Construct 6" Monolithic Curb

Construct 8" R.C.V.G. Pavement on 5" Reinf. Crushed Rock Base w/ 6" Monolithic Edge Curb. See Valley Gutter Detail, Sheet 6.

Remove Trees Only As Necessary

Power Pole to be Moved by "Others" Prior to Construction

Install R1-1 Sign

Remove Existing Fence

Adjust Ex SWS Manhole to Match Final Grade Ex Elev = 118.84 Prop Elev = 117.08

Remove Ex. Traffic Sign

Adjust Ex Water Valve to Match Final Grade

(*) Construct 6" Monolithic Curb

Remove Ex. Traffic Signs

Remove Existing Curb and Gutter

Construct Conc. Wheel Chair Ramp (5' Wide)

B.L. Sta. 10+23.53, 42.50' Rt. Begin Construction 5' Concrete Sidewalk (4")

Remove Existing Inlet Construct Standard Shallow Type "P" (4' Dia) Manhole Over Ex 15" RCP Top Elev = 117.40

Remove Ex. Traffic Sign

Install R2-1 Sign (30 MPH)

Construct Std. Type 1A Inlet Hook-up

Construct 5' Conc. Sidewalk (4')

Adjust Ex Brick SS Manhole to Match Final Grade Ex Elev = 118.02 Prop Elev = 117.90

Remove Ex. Drop Inlet. Cost to be INCIDENTAL to "Removal of Existing Structures"

(*) Construct 6" Monolithic Curb

Depress Full Height Curb to Roll Type Curb for 20' Adjacent to Field Entrance. See Note 21, Sheet 3.

Construct Std. Type 1A Inlet Hook-up

Guy Pole to be Moved by "Others" Prior to Construction

Install W1-7 Sign

20' Private Screening Wall & Landscape Easement

100' Building Setback

Grade Existing Gravel Road to Match Proposed Pavement Section. Cost to be INCIDENTAL to "Site Restoration".

(*) Contractor to Either Construct 6" Curb and Gutter with Dowel Reinforcement, or Construct 6" Integral Curb. Cost to be INCIDENTAL to "6" Monolithic Curb".

Remove Existing Guard Posts and Barricades. Cost to be INCIDENTAL to "Removal of Existing Structures".

NOTE: Trees/Shrubs to be removed are marked thus:

Cost of Tree Removal to be INCIDENTAL to "R/W Clearing and Site Preparation".

(NOTE) Crown Grades Shown on Plan Sheets Reflect Monolithic Pavement Section. If Curb & Gutter Section is to be Constructed, Curb Grades Shown in Plan Sheets Shall Remain the Same and Crown Grade Shall be Adjusted to Maintain Minimum Pavement Slopes (High Edge to Crown).

PROJECT NUMBER	SHEET NAME	ENGINEERING DIRECTORY
472 76 245 82757	Pav01	F:\ENG\TAFT\PAV

DESIGN	DRAWN	APPROVED	DATE	SCALE	BAUGHMAN NO
TPV/JFB	STAFF	JFB	SEPT 2000	NOTED	99-12-E556

STREET IMPROVEMENTS FOR
TAFT AVENUE
JULIA TO HOOVER
TAFT AVENUE PAVING PLAN-STA. 10+00.00 to STA. 14+25.00

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

SHEET 8 OF 25

BENCHMARKS:

"□" cut at NW corner of SWB concrete pad 600'± west of NE corner of Lot 3, West Kellogg Power Center Addition. Elevation = 117.61 (City Datum)

SCALE: 1" = 20'

P.V.I. ELEV = 117.42 NO V.C.

P.V.I. ELEV = 116.75 NO V.C.

P.V.I. ELEV = 116.31 NO V.C.

P.V.I. ELEV = 116.92 NO V.C.

+0.412% −0.390% +0.492% −0.476%

Sta. 14+25.00 MATCH LINE

Sta. 14+85.00 P.V.I.

Sta. 16+56.66 P.V.I.

Sta. 17+44.71 P.V.I.

Sta. 18+68.59 P.V.I.

Sta. 19+75.00 MATCH LINE

TONY STRUNK ADDITION LOT 8

WESTWOOD ADDITION LOT 8

WESTWOOD ADDITION LOT 9

PIKE'S WHISPERING SANDS LOT 1

WEST KELLOGG POWER CENTER ADDITION LOT 2

WEST KELLOGG POWER CENTER ADDITION LOT 3

TAFT AVE.

MEADOWHAVEN

Grade Existing Gravel Road to Match Proposed Pavement Section. Cost to be INCIDENTAL to "Site Restoration".

Construct 8" R.C.V.G. Pavement on 5" Reinf. Crushed Rock Base w/ 6" Monolithic Edge Curb. See Valley Gutter Detail, Sheet 6.

Adjust Ex Brick SS Manhole to Match Final Grade Ex Elev = 117.40 Prop Elev = 117.28

Construct 9" Reinf. Concrete Pavement. See Typical Section, Sheet 4.

(*) Construct 6" Monolithic Curb

CAUTION! U/G Utility Crossings!

Install R1-1 Sign

Adjust Ex Water Valve to Match Final Grade Ex Elev = 116.58 Prop Elev = 116.95

Construct Std. Type 1A Inlet Hookup

(*) Construct 6" Monolithic Curb

Remove Ex Concrete Driveway to Joint Construct 24' Concrete Ramp Drive (6" Conc.) See Detail, Sheet 7. (47 Sq. Yds)

Adjust Ex SWS Manhole to Match Final Grade Ex Elev = 116.22 Prop Elev = 116.53

(*) Construct 6" Monolithic Curb

Adjust VB to Final Grade

Guy Pole to be Relocated by "Others" Prior to Construction

Construct 5' Conc. Sidewalk (4")

Adjust Ex Brick SS Manhole to Match Final Grade Ex Elev = 116.90 Prop Elev = 116.53

Construct Std. Type 1A Inlet Hookup

(*) Construct 6" Monolithic Curb

Construct 5' Conc. Sidewalk (4")

Adjust VB's and WM to Final Grade

Probe 4" Gas 37" Deep

Adjust Ex Brick SS Manhole to Match Final Grade Ex Elev = 116.85 Prop Elev = 116.67

Install W1-7 Sign

20' Private Screening Wall & Landscape Easement

28' X 30' SWB Easement

Ex Concrete Screening Wall

10' Utility Easement

100' Building Setback

10' X 15' Sanitary Sewer Esmt.

Existing SWS Manhole Locations are from Record Information. Actual Location not Verified in the Field

(*) Contractor to Either Construct 6" Curb and Gutter with Dowel Reinforcement, or Construct 6" Integral Curb. Cost to be INCIDENTAL to "6" Monolithic Curb".

PROJECT NUMBER	SHEET NAME	ENGINEERING DIRECTORY
472 76 245 82757	Pav02	F:\ENG\TAFT\PAV

DESIGN	DRAWN	APPROVED	DATE	SCALE	BAUGHMAN NO
TPV/JFB	STAFF	JFB	SEPT 2000	NOTED	99-12-B556

STREET IMPROVEMENTS FOR
TAFT AVENUE
JULIA TO HOOVER
TAFT AVENUE PAVING PLAN-STA. 14+25.00 to STA. 19+75.00

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

BENCHMARKS:

"+" Cut in North End of Headwall of 10'x3' RCBC at Intersection of Hoover and Taft.
Elevation = 115.69 (City Datum)

SCALE: 1" = 20'

P.V.I. ELEV = 116.20 NO V.C.
P.V.I. ELEV = 116.84 NO V.C.
P.V.I. ELEV = 116.27 50' V.C.

-0.476% +0.388% -0.664% +0.644%

Sta. 19+75.00 MATCH LINE
Sta. 20+19.91 P.V.I.
Sta. 21+85.00 P.V.I.
Sta. 22+72.88 P.V.I.
Sta. 23+08.23, 19.58' Rt. = Sta. 6+78.92, 14.64' Lt. MATCH POINT

PIKE'S WHISPERING SANDS ADDITION
LOT 1

COWSKIN CREEK FLOODWAY

TAFT AVE.

WEST KELLOGG POWER CENTER ADDITION
LOT 3
100' Building Setback

HOOVER STREET
100' R/W

WESTERN ADDITION
Lot 11

Sta. 23+22.87, Taft Street = Sta. 6+98.50, Hoover Road

Construct Std. Type 1A Inlet Hook-up
Construct 8" Reinf. Concrete Pavement. See Typical Section, Sheet 4.
Adjust Ex SWS Manhole to Match Final Grade Ex Elev = 116.14 Prop Elev = 116.31
(*) Construct 6" Monolithic Curb
LIMITS OF ALTERNATE PAVEMENT TYPE
Construct Std. Type 1A Inlet Hook-up
Construct 5' Conc. Sidewalk (4")
Construct Std. Type 1A Inlet Hook-up
Install W1-1R Sign
(*) Construct 6" Monolithic Curb
Construct Std. Type 1A Inlet Hook-up
Remove Existing Brick Manhole Riser to Start of Taper. Install 48" Diam. Eccentric Manhole Cone Section, New Ring, & Cover. Ex Elev = 117.18 Prop Elev = 115.99
Probe 4" Gas 58" Deep
Location of 36" RCP Not Field Verified

Existing SWS Manhole Locations are from Record Information. Actual Location not Verified in the Field

(*) Contractor to Either Construct 6" Curb and Gutter with Dowel Reinforcement, or Construct 6" Integral Curb. Cost to be INCIDENTAL to "6" Monolithic Curb".

PROJECT NUMBER	SHEET NAME	ENGINEERING DIRECTORY
472 76 245 82757	Pav03	F:\ENG\TAFT\PAV

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STREET IMPROVEMENTS FOR
TAFT AVENUE
JULIA TO HOOVER
TAFT AVENUE PAVING PLAN-STA. 19+75.00 to STA. 23+08.23, 19.58' Rt.

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