CITY OF WICHITA, SEDGWICK COUNTY, KANSAS
MICHAEL E. LINDEBAK, P.E., CITY ENGINEER

STREET IMPROVEMENTS

VALLEYVIEW - FROM THE INTERSECTION OF 19TH STREET TO THE S.L. OF LOT 59, BLOCK 1, AND THE S.L. OF LOT 18, BLOCK 7, SERVING LOTS 20, 21, & 38, BLOCK 5, AND LOT 18, BLOCK 7.

BELLA VISTA - FROM THE E.L. OF VALLEYVIEW TO THE N.L. OF LOT 44, BLOCK 1, AND THE N.L. OF LOT LOT 11, BLOCK 4, SERVING LOTS 44 THROUGH 58 AND LOT 60, BLOCK 1, AND LOTS 11 THROUGH 21, BLOCK 4.

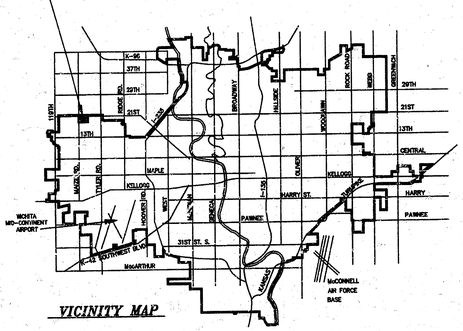
IN

GRAF-GOLDSTON ADDITION - PHASE 2B

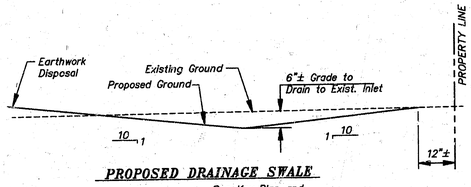
CITY OF WICHITA PROJECT NO. 472-82282

INDEX NO. 761767

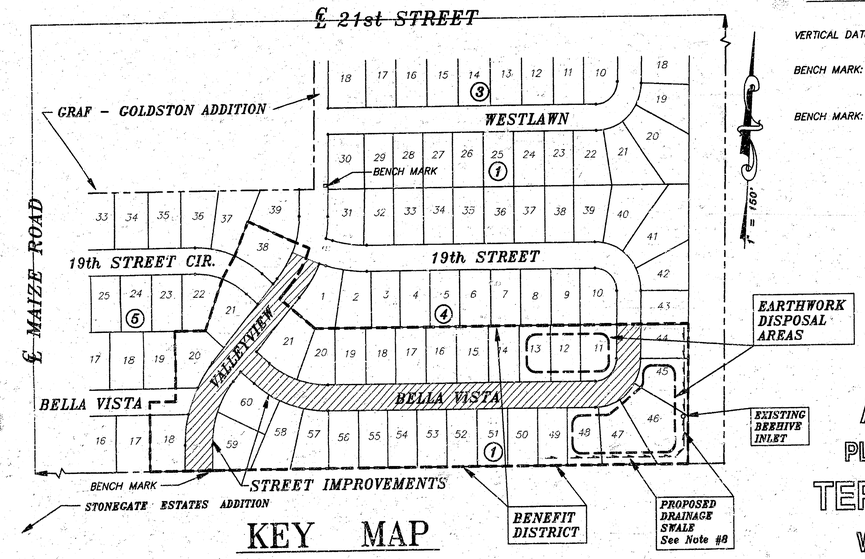
PROJECT SITE
GRAF – GOLDSTON ADDITION
IN WICHITA, SEDGWICK CO., KANSAS



VICINITY MAP



PROPOSED DRAINAGE SWALE
See Key Plan and Note #8



KEY MAP

PROJECT SURVEY CONTROL

VERTICAL DATUM: CITY OF WICHITA DATUM

BENCH MARK: CHISELED "□" ON TOP OF CURB AT NORTHWEST COR. LOT 31, BLOCK 1, GRAF-GOLDSTON ADDITION ELEV. = 157.96

BENCH MARK: CHISELED "□" ON TOP OF CURB AT SOUTHWEST COR. LOT 59, BLOCK 1, GRAF-GOLDSTON ADDITION ELEV. = 158.16

EARTHWORK

STREET EXCAVATION

EXCAVATION	3425.2 CU. YDS.
LOOSE FILL	146.2 CU. YDS.
COMPACTED FILL	226.4 CU. YDS.

TOTAL PROJECT LENGTH = 1589 LF

APRIL 1993

PLANS PREPARED BY

TERRA TECH, INC.

WICHITA, KANSAS

INDEX OF SHEETS

1. TITLE SHEET
2. PLAT
3. TYPICAL SECTION 25' STREET
4. TYPICAL SECTION 29' STREET
5. TYPICAL SECTION 37' STREET
6. STREET SIGNS
7. VALLEYVIEW STREET PLAN (1 of 2)
8. VALLEYVIEW STREET PLAN (2 of 2)
9. ENLARGED INTERSECTION DETAILS
10. BELLA VISTA STREET PLAN (1 of 2)
11. BELLA VISTA STREET PLAN (2 of 2)
12. VALLEYVIEW CROSS SECTIONS (1 of 2)
13. VALLEYVIEW CROSS-SECTIONS (2 of 2)
14. BELLA VISTA CROSS-SECTIONS (1 of 2)
15. BELLA VISTA CROSS-SECTIONS (2 of 2)

GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE A MINIMUM FORTY-EIGHT (48) HOUR ADVANCE NOTICE (EXCLUDING WEEKENDS AND HOLIDAYS) PRIOR TO BEGINNING ANY EXCAVATION, TO KANSAS ONE-CALL SYSTEM, A UTILITY LOCATION SERVICE, AT (316) 687-2470 TO REQUEST THE FOLLOWING UTILITY COMPANIES TO LOCATE ALL EXISTING LINES WITHIN THE PROJECT AREA: KPL GAS SERVICE, ARKLA GAS SERVICE, K.G.& E., SOUTHWESTERN BELL TELEPHONE, CABLEVISION, CITY OF WICHITA SEWER MAINTENANCE AND CITY OF WICHITA WATER DEPARTMENT.

2. UNDERGROUND UTILITY SERVICE LINES, UTILITY POLES, 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.

3. 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 AN EXISTING JOINTS WILL NOT BE PERMITTED AND FOR SUCH INSTANCES THE LIMITS OF REMOVAL SHALL EXTEND TO THE EXISTING JOINT. SUCH SAW CUTS WILL NOT BE PAID FOR DIRECTLY AND THIS COST SHALL BE CONSIDERED AS SUBSIDIARY TO THE REMOVAL OF THE SURFACE OR PAVEMENT.

4. 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.

5. CONTRACTOR SHALL SATISFY HIMSELF OF SUBSURFACE CONDITIONS PRIOR TO CONSTRUCTION.

6. TEMPORARY SURFACING MATERIAL (ROCK, ASPHALT, ETC.) MAY HAVE BEEN PLACED WITHIN STREET RIGHT-OF-WAY FOR HAUL ROADS AND TEMPORARY ACCESS. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS TO DETERMINE EXTENT, IF ANY, OF SUCH SURFACING. CONTRACTOR SHALL REMOVE SAID TEMPORARY SURFACING IN THE SAME MANNER AS NOTED ABOVE FOR RUBBLE. THIS REMOVAL SHALL BE SUBSIDIARY TO OTHER BID ITEMS.

7. EXCESS EXCAVATION FROM THE CONSTRUCTION SHALL BE STOCK PILED IN AREAS DESIGNATED AS "EARTHWORK DISPOSAL AREAS" ON THE KEY MAP. EARTHWORK SHALL BE PILED NO HIGHER THAN TWO (2) FEET IN HEIGHT. GRADE STOCK PILES WITH GENTLE SIDE SLOPES AND IN A WELL DRAINED NEAT CONDITION. STOCK PILES THAT, IN THE OPINION OF THE ENGINEER, WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED.

8. CONTRACTOR TO GRADE DRAINAGE SWALE (SEE SECTION THIS SHEET) ACROSS REAR OF LOTS 44 THRU 49, BLOCK 1, TO DRAIN TO EXISTING BEEHIVE INLET. COST FOR THIS ITEM SHALL BE CONSIDERED AS SUBSIDIARY TO THE OTHER PAY ITEMS OF WORK.

9. NOT MORE THAN ONE DRIVE APPROACH, 18' WIDE, SHALL BE CONSTRUCTED WITH THIS PROJECT.

10. 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.

11. CONTRACTOR SHALL GIVE PROPERTY OWNERS ABUTTING THIS PROJECT 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 SPECIFICATIONS 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.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS: THE CONTRACTOR WILL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.

13. 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 HYDRANTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.

14. THE CONTRACTOR SHALL ADJUST WATER VALVE BOXES AS DIRECTED BY THE ENGINEER. THIS WORK TO BE SUBSIDIARY TO OTHER BID ITEMS.

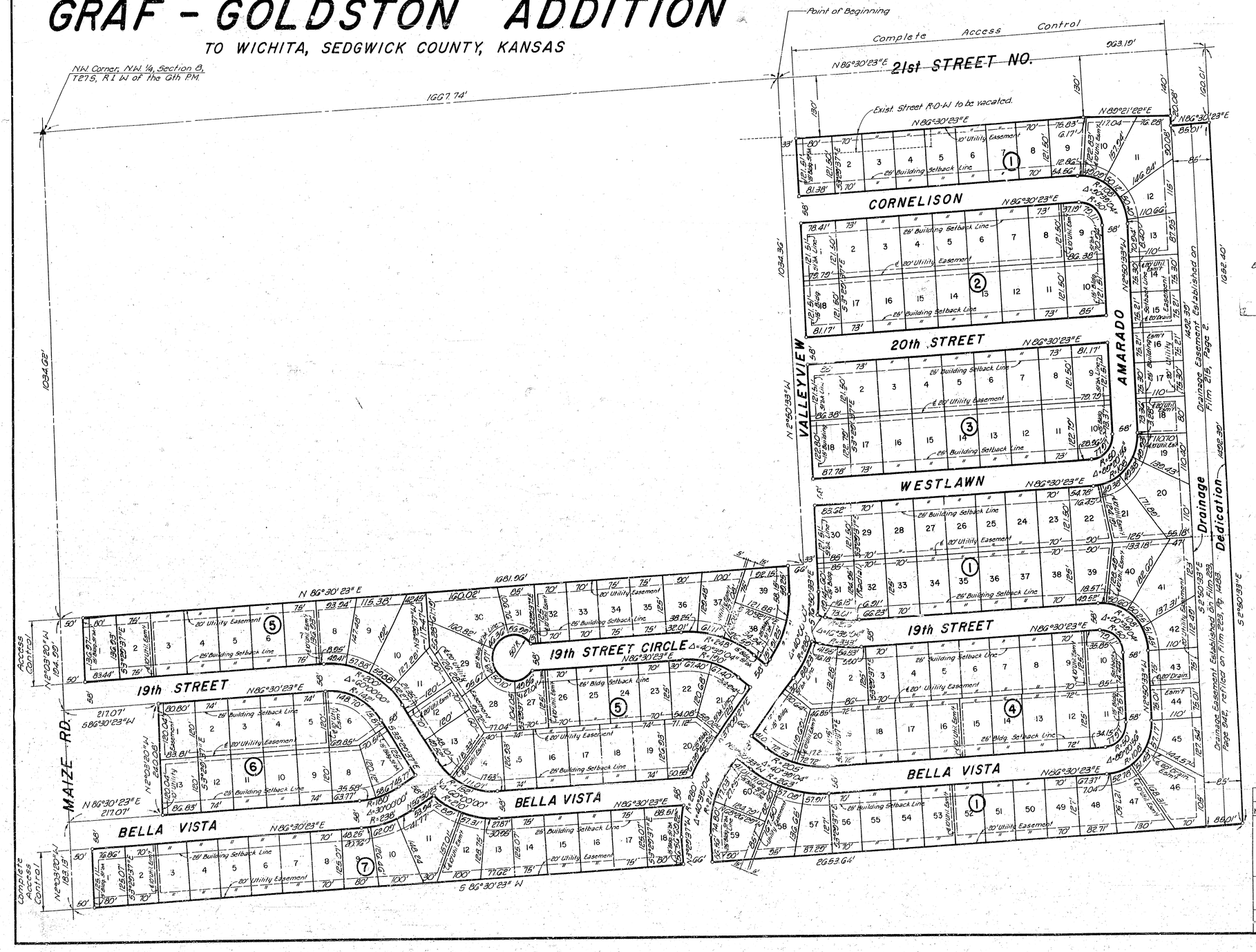
15. THIS PROJECT INCLUDES AN ALTERNATE TYPICAL SECTION CONSISTING OF AN ASPHALT PAVEMENT OVER A TREATED SUBGRADE. THE ENGINEER MAY REQUIRE USE OF THE ALTERNATE CONSTRUCTION TYPE IN LIEU OF ASPHALT PAVEMENT OVER A FABRIC-REINFORCED CRUSHED-ROCK BASE. THE CONTRACTOR SHALL BID ALL BASE BID ITEMS AND ALTERNATE ITEMS, AND THE FINAL SELECTION OF CONSTRUCTION TYPE SHALL BE MADE BY THE ENGINEER AT THE TIME OF CONSTRUCTION. THE TYPE SELECTED BY THE ENGINEER SHALL BE USED FOR THE ENTIRE PROJECT. EARTHWORK QUANTITIES SHOWN ON THE PLANS WERE CALCULATED BASED ON USE OF A FABRIC-REINFORCED CRUSHED-ROCK BASE. ANY DIFFERENCE IN EARTHWORK BETWEEN THE TWO ALTERNATES SHALL BE SUBSIDIARY TO SUBGRADE MANIPULATION.

16. 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.



GRAF - GOLDSTON ADDITION

TO WICHITA, SEDGWICK COUNTY, KANSAS



No.	Revision	By	Date

CITY OF WICHITA, KANSAS
GRAF - GOLDSTON ADDITION
PLAT

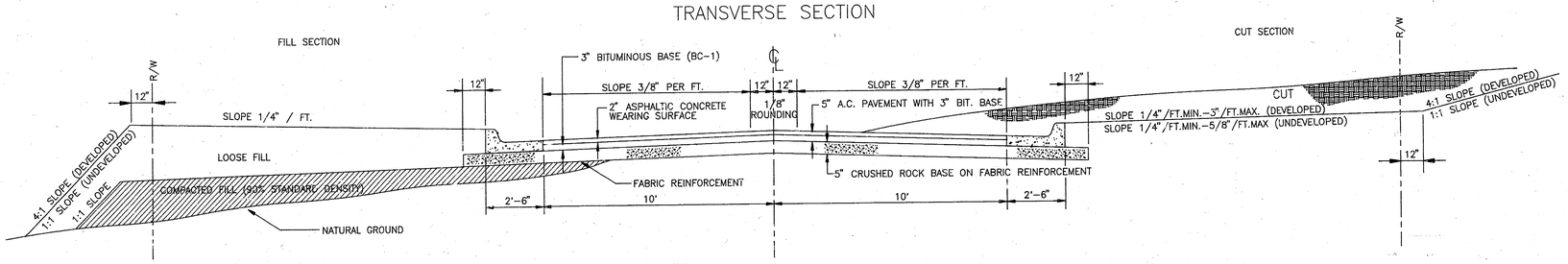
Michael E. Lindebok, P.E. - City Engineer
City of Wichita Project No. 472-76-245-82282-000-000-00

Terra Tech Inc.
ENGINEERING ✦ SURVEYING
P.O. Box 244
Wichita, KS 67201
4020 West 10th Street
(316) 946-0332

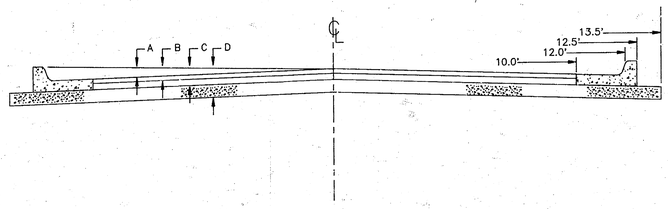
Designed by RDF | Job No. 90-314
Drawn by DRS | Date October 30, 1992 | Sht. 2 of 15

TYPICAL 25' PAVEMENT DETAILS

TRANSVERSE SECTION

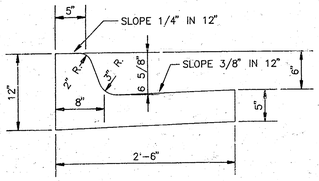


ELEVATION OFFSETS

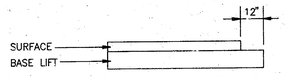


	DISTANCE FROM CENTERLINE (LT. & RT.)									
	0'	2'	4'	6'	8'	10'	12'	12.5'	13.5'	
A: TOP OF CURBS TO TOP OF SURFACE LIFT	.20	.25	.31	.37	.43	.50	--	--	--	--
B: TOP OF CURBS TO TOP OF LOWER BASE LIFT	.37	.41	.48	.54	.60	.66	--	--	--	--
C: TOP OF CURBS TO TOP OF CRUSHED ROCK	.62	.66	.73	.79	.85	.91	.98	1.00	1.02	
D: TOP OF CURBS TO TOP OF FABRIC REINFORCEMENT	1.04	1.08	1.14	1.21	1.27	1.33	1.39	1.41	1.44	

COMBINED CURB & GUTTER



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



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 TRANS-VERSE JOINT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS 5" ASPHALTIC CONCRETE PAVEMENT (3" BITUMINOUS BASE)

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

A TACK COAT OF EMULSIFIED ASPHALT (SC-1H OR CSS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.

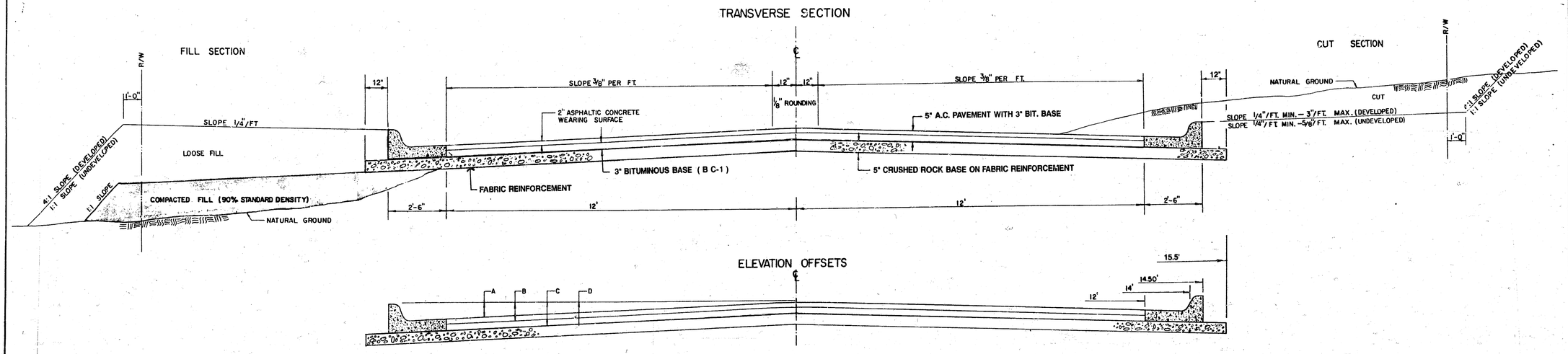
BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR LINE AND GRADE.

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

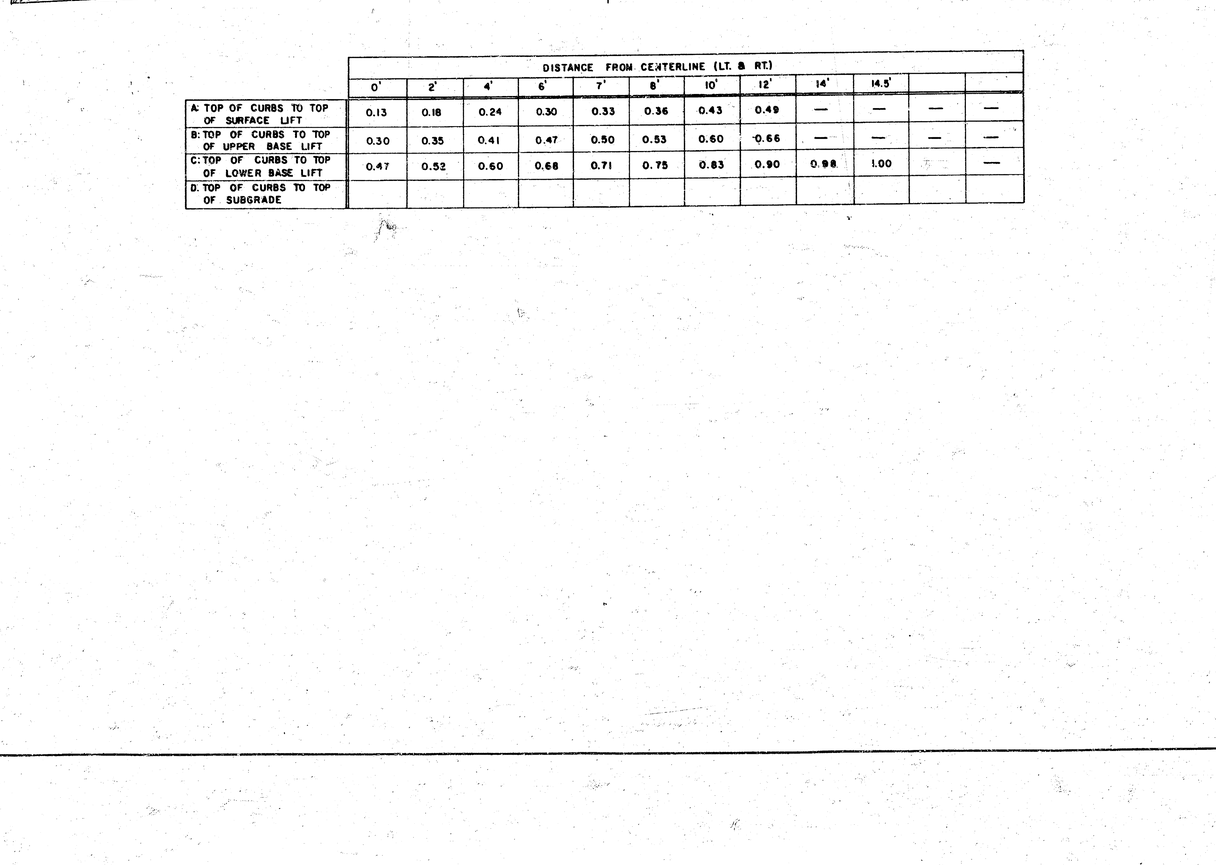
5" RESIDENTIAL ASPHALTIC CONCRETE PAVEMENT WITH CRUSHED ROCK BASE ON FABRIC REINFORCEMENT

TYPICAL 29' PAVEMENT DETAILS

TRANSVERSE SECTION

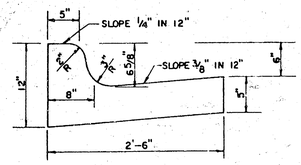


ELEVATION OFFSETS

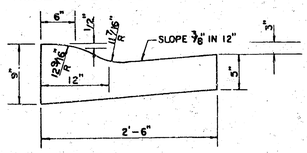


	DISTANCE FROM CENTERLINE (LT. & RT.)											
	0'	2'	4'	6'	7'	8'	10'	12'	14'	14.5'		
A: TOP OF CURBS TO TOP OF SURFACE LIFT	0.13	0.18	0.24	0.30	0.33	0.36	0.43	0.49	—	—	—	—
B: TOP OF CURBS TO TOP OF UPPER BASE LIFT	0.30	0.35	0.41	0.47	0.50	0.53	0.60	0.66	—	—	—	—
C: TOP OF CURBS TO TOP OF LOWER BASE LIFT	0.47	0.52	0.60	0.68	0.71	0.75	0.83	0.90	0.98	1.00		—
D: TOP OF CURBS TO TOP OF SUBGRADE												

COMBINED CURB & GUTTER

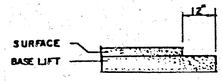


ROLL TYPE COMBINED CURB & GUTTER



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

TRANSVERSE CONSTRUCTION JOINTS



TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENT JOINS EXISTING FLEXIBLE BASE PAVEMENT AS SHOWN BY THE DETAIL. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION OF THE TRANSVERSE JOINT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS 5" ASPHALTIC CONCRETE PAVEMENT (3" BITUMINOUS BASE)

GENERAL NOTES

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

A TACK COAT OF EMULSIFIED ASPHALT (SC-1H OR CSS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.

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

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

City of Wichita Project No. 472-82282

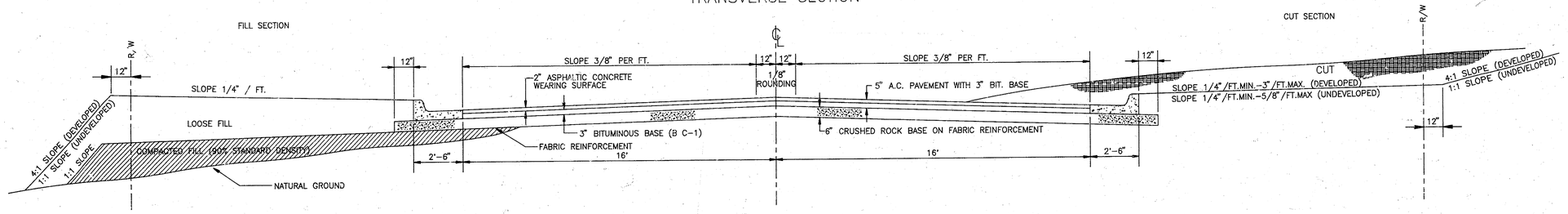
SHEET 4 OF 15

5" RESIDENTIAL ASPHALTIC CONCRETE PAVEMENT WITH CRUSHED ROCK BASE ON FABRIC REINFORCEMENT

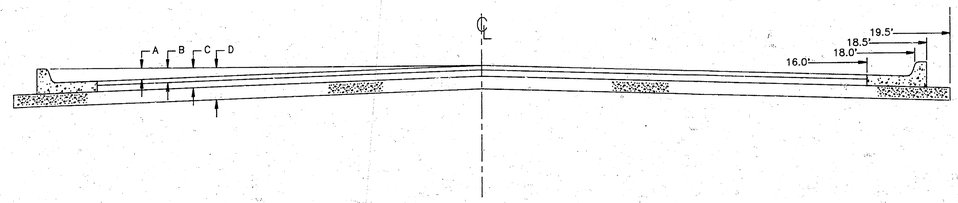
10 1 5 31

TYPICAL 37' PAVEMENT DETAILS

TRANSVERSE SECTION

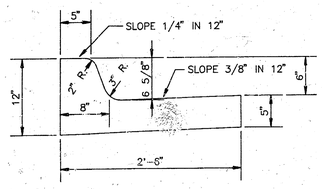


ELEVATION OFFSETS

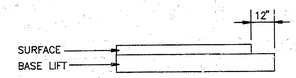


	DISTANCE FROM CENTERLINE (LT. & RT.)													
	0'	2'	4'	6'	8'	10'	12'	14'	16'	18'	18.5'	19.5'		
A: TOP OF CURBS TO TOP OF SURFACE LIFT	.01	.05	.11	.18	.24	.30	.36	.43	.49	--	--	--		
B: TOP OF CURBS TO TOP OF LOWER BASE LIFT	.17	.22	.28	.34	.40	.47	.53	.59	.65	--	--	--		
C: TOP OF CURBS TO TOP OF CRUSHED ROCK	.42	.47	.53	.59	.65	.72	.78	.84	.90	.97	.98	1.01		
D: TOP OF CURBS TO TOP OF FABRIC REINFORCEMENT	.92	.97	1.03	1.09	1.15	1.22	1.28	1.34	1.4	1.47	1.48	1.51		

COMBINED CURB & GUTTER



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



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 TRANS-VERSE JOINT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS 5" ASPHALTIC CONCRETE PAVEMENT (3" BITUMINOUS BASE)

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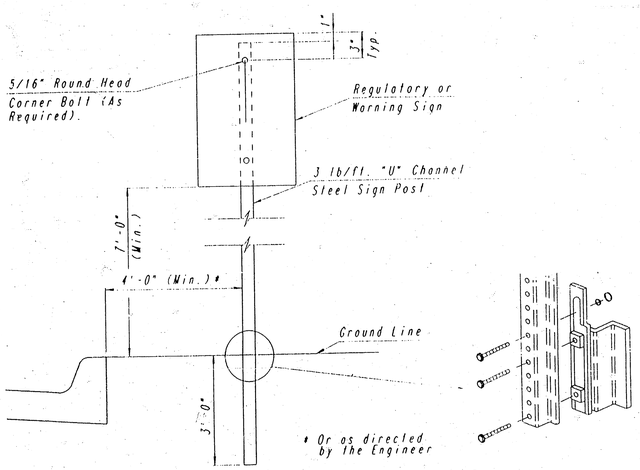
BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR LINE AND GRADE.

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

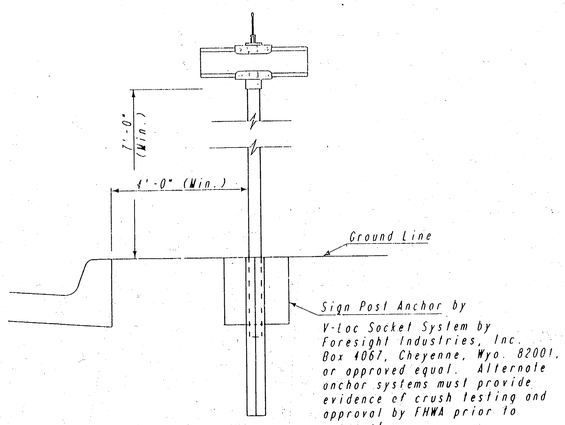
City of Wichita Project No. 472-82282

SHEET 5 OF 15

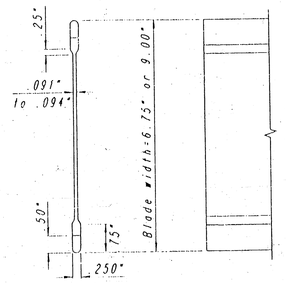
5" RESIDENTIAL ASPHALTIC CONCRETE PAVEMENT WITH CRUSHED ROCK BASE ON FABRIC REINFORCEMENT



TYPICAL TRAFFIC CONTROL SIGN MOUNTING INSTALLATION
CURB AND GUTTER SECTION



TYPICAL STREET NAME SIGN MOUNTING INSTALLATION
CURB AND GUTTER SECTION



STREET NAME SIGN
BLADE DETAILS

GENERAL NOTES - SIGNING

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

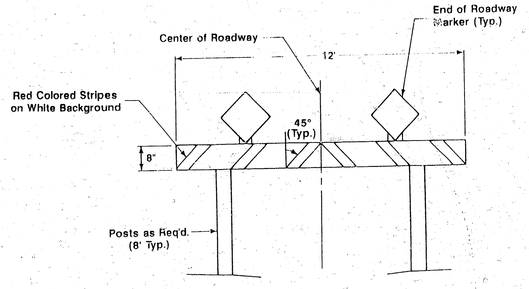
1. POST ANCHORS. POSTS SHALL BE ANCHORED WITH A YIELDING BASE POST SUPPORT AS DETAILED.
2. POSTS FOR TRAFFIC CONTROL SIGNS. POSTS SHALL CONFORM TO THE REQUIREMENTS OF SUBSECTION 1620 OF THE STANDARD SPECIFICATIONS EXCEPT THAT ALL POSTS SHALL WEIGH 3 LBS./FOOT MINIMUM.
3. POSTS FOR STREET NAME SIGNS (SNS). POSTS SHALL BE 9 FEET LONG, CONSTRUCTED FROM 2 3/8" O.D. GALVANIZED STEEL PIPE WEIGHING A MINIMUM OF 3.65 LBS./FOOT. POSTS SHALL BE POSITIONED SO THAT THE BOTTOM BLADE IS 7 FEET ABOVE GRADE.
4. SIGN BLANKS FOR TRAFFIC CONTROL SIGNS. SIGN BLANKS SHALL BE FABRICATED FROM 0.080" ALUMINUM ALLOY 5052-T6 CONFORMING TO THE REQUIREMENTS OF SUBSECTION 1626 OF THE STANDARD SPECIFICATIONS.
5. 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.

   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.
6. MOUNTING BRACKETS FOR SNS. 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.
7. FASTENERS. ALL STEEL FASTENERS FOR TRAFFIC CONTROL SIGNS SHALL BE GALVANIZED AND SHALL CONFORM TO THE REQUIREMENTS OF SUBSECTION 1614 OF THE STANDARD SPECIFICATIONS.
8. REFLECTIVE SHEETING. REFLECTIVE SHEETING SHALL BE TYPE II - HIGH PERFORMANCE CLASS HA IN ACCORDANCE WITH SUBSECTION 2201 OF THE STANDARD SPECIFICATIONS.
9. PROCESS INK. ALL PROCESS INK SHALL CONFORM TO THE REQUIREMENTS OF SUBSECTION 2202 OF THE STANDARD SPECIFICATIONS.
10. DETAILS. REGULATORY AND WARNING SIGNS SHALL CONFORM TO THE DETAILS IN "STANDARD HIGHWAY SIGNS", FHWA, 1979.
11. DETAILS - SNS. THE REFLECTIVE SHEETING FOR THE 6 3/4" STANDARD SIZE SNS IS TO BE THE HIGHWAY GREEN REVERSE SCREENED BACKGROUND WITH SILVER-WHITE #2 COPY WITH 4" UPPER CASE AND 3" LOWER CASE PRIMARY COPY AND SUFFIX COPY. BOTH SERIES "C". WHERE SUFFIX LETTERS ARE USED ON NUMBERED STREETS AS RD, TH, ETC., THEY SHALL BE 1 1/2" LOWER CASE SERIES "C" LETTERS. FACES TO TRIM TO A 6 1/4". (SEE DETAIL A.)

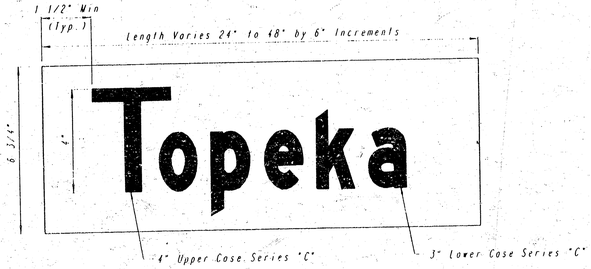
    THE REFLECTIVE SHEETING FOR THE 9" METRO SIZE SNS IS TO BE THE HIGHWAY GREEN REVERSE SCREENED BACKGROUND WITH SILVER-WHITE #2 COPY WITH 5" UPPER CASE AND 4 3/4" LOWER CASE PRIMARY COPY AND SUFFIX COPY, BOTH SERIES "C". WHERE SUFFIX LETTERS ARE USED ON NUMBERED STREETS, SUCH AS RD, TH, ETC., THEY SHALL BE 3" LOWER CASE 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 BLADES EXCEPT THAT THE HOUSE NUMBER INFORMATION SHALL BE 3" 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.
12. NEW TRAFFIC CONTROL AND STREET NAME SIGNS. NEW TRAFFIC CONTROL AND STREET NAME SIGNS 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.



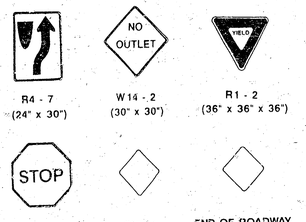
TYPE I BARRICADE DETAIL W/ E.O.R. MARKER

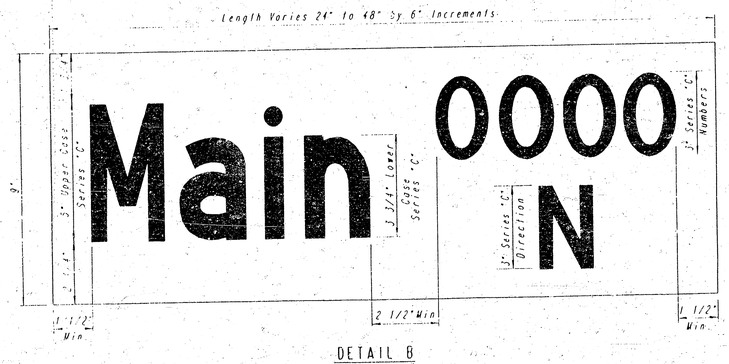


DETAIL A
6 3/4" STANDARD

SIGN ASSEMBLY TABLE			
STATION	OFFSET	SIGN	QUANTITY*
0+27	0	E.O.R.	2
1+32.5	18.5' LT.	S.N.S.	1
3+61.5	27' RT.	S.N.S.	1
4+65.5	20' RT.	D1-2B	1
TOTAL			

* FOR INFORMATION ONLY





DETAIL B
9" METRO

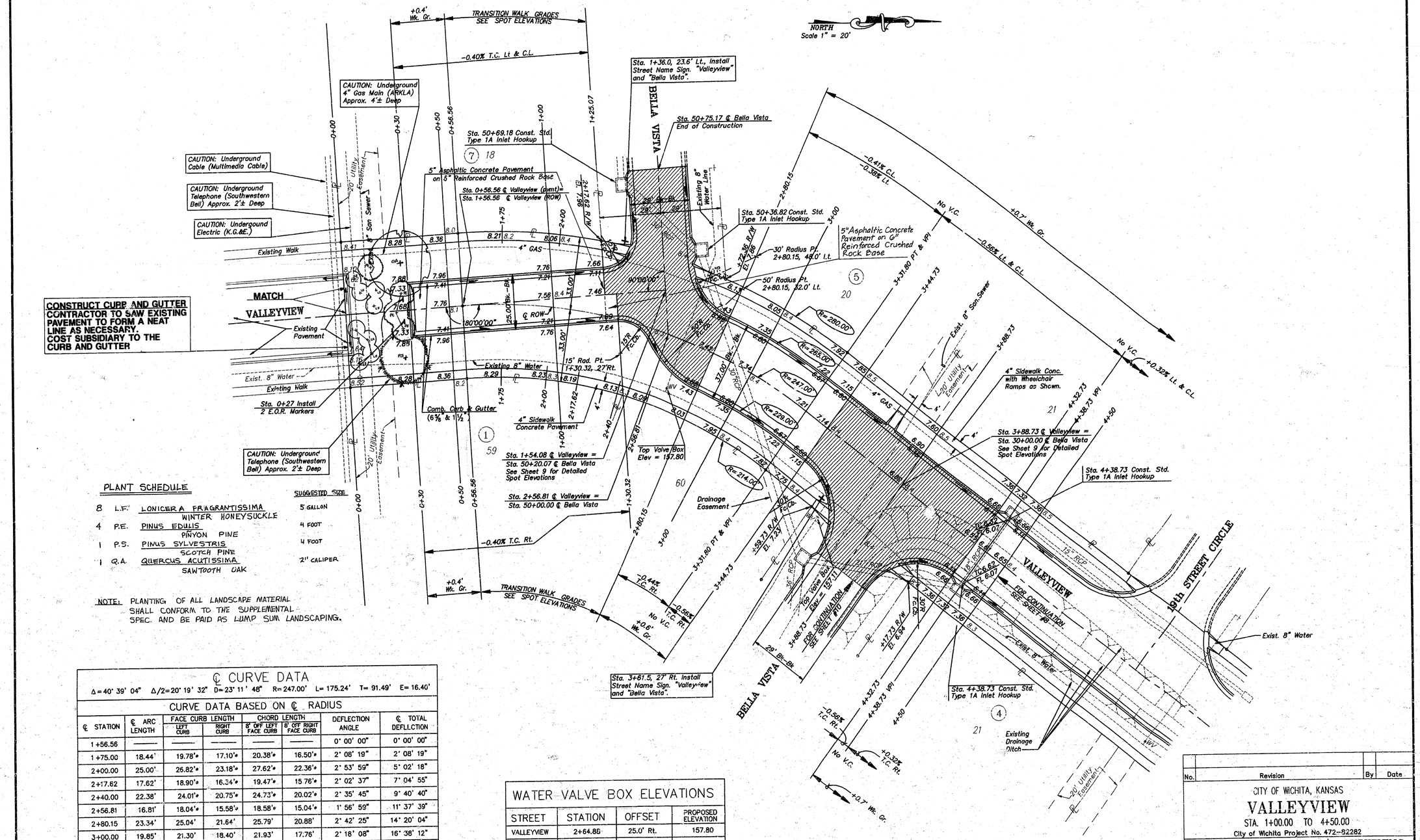
STREET NAME	NO. BLADES REQ'D.	
	6 3/4" STD.	9" METRO
Valleyview	3	
Bella Vista	2	
19th St. Circle	1	

PROJECT DESCRIPTION
SIGNING DETAILS

PROJECT NUMBER
472-82282

SCALE: NONE | APPROVED BY | DATE: JUNE '93
DRAWN BY | REVISED

CITY OF WICHITA
DEPARTMENT OF PUBLIC WORKS
TRAFFIC ENGINEERING SECTION | SH. 6 OF 15



PLANT SCHEDULE			
8	L.F.	LONICERA FRAGRANTISSIMA WINTER HONEYSUCKLE	5 GALLON
4	P.E.	PINUS EDULIS PINYON PINE	4 FOOT
1	P.S.	PINUS SYLVESTRIS SCOTCH PINE	4 FOOT
1	Q.A.	QUERCUS ACUTISSIMA SAWTOOTH OAK	2" CALIPER

NOTE: PLANTING OF ALL LANDSCAPE MATERIAL SHALL CONFORM TO THE SUPPLEMENTAL SPEC. AND BE PAID AS LUMP SUM LANDSCAPING.

℄ CURVE DATA

Δ = 40° 39' 04" Δ/2 = 20° 19' 32" D = 23° 11' 48" R = 247.00' L = 175.24' T = 91.49' E = 16.40'

CURVE DATA BASED ON ℄ RADIUS

℄ STATION	℄ ARC LENGTH	FACE CURB LENGTH		CHORD LENGTH		DEFLECTION ANGLE	℄ TOTAL DEFLECTION
		LEFT CURB	RIGHT CURB	8' OFF LEFT FACE CURB	8' OFF RIGHT FACE CURB		
1+56.56	——	——	——	——	——	0° 00' 00"	0° 00' 00"
1+75.00	18.44'	19.78'*	17.10'*	20.38'*	16.50'*	2° 08' 19"	2° 08' 19"
2+00.00	25.00'	26.82'*	23.18'*	27.62'*	22.36'*	2° 53' 59"	5° 02' 18"
2+17.62	17.62'	18.90'*	16.34'*	19.47'*	15.76'*	2° 02' 37"	7° 04' 55"
2+40.00	22.38'	24.01'*	20.75'*	24.73'*	20.02'*	2° 35' 45"	9° 40' 40"
2+56.81	16.81'	18.04'*	15.58'*	18.58'*	15.04'*	1° 56' 59"	11° 37' 39"
2+80.15	23.34'	25.04'	21.64'	25.79'	20.88'	2° 42' 25"	14° 20' 04"
3+00.00	19.85'	21.30'	18.40'	21.93'	17.76'	2° 18' 08"	16° 38' 12"
3+31.80	31.80'	34.12'	29.48'	35.12'	28.43'	3° 41' 20"	20° 19' 32"
TOTAL	175.24'	188.01'	162.47'	Defl. / ft. = 6.9590 min.			

* Information shown is for sidewalk location & grading purposes only.

WATER VALVE BOX ELEVATIONS

STREET	STATION	OFFSET	PROPOSED ELEVATION
VALLEYVIEW	2+64.86	25.0' Rt.	157.80
BELLA VISTA	30+35.00	24.0' Rt.	157.11

No.	Revision	By	Date

CITY OF WICHITA, KANSAS

VALLEYVIEW

STA. 1+00.00 TO 4+50.00

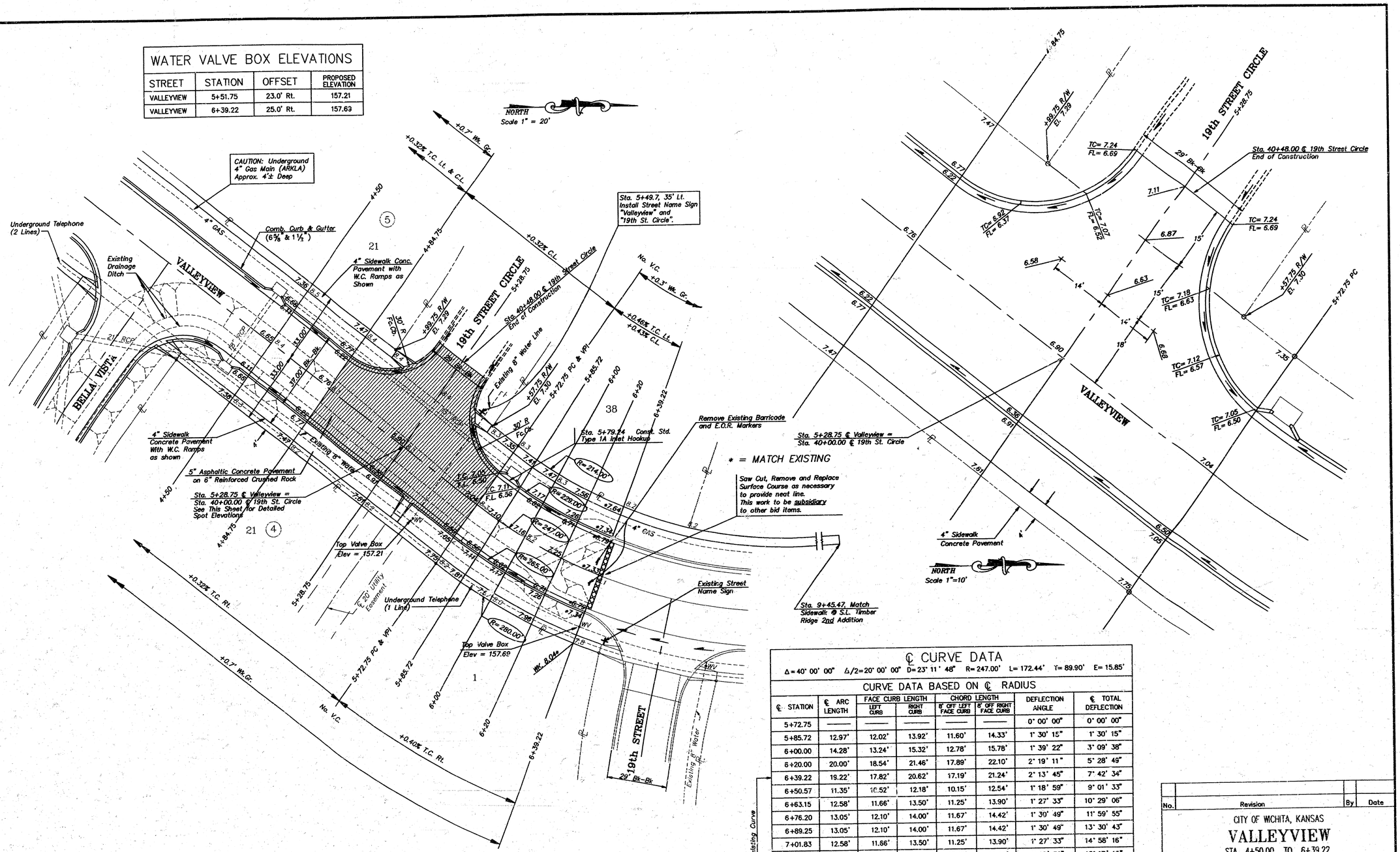
City of Wichita Project No. 472-82282

ENGINEERING ⌖ SURVEYING
608 N. West Street Suite #292
Wichita, KS 67203 (316) 945-0370

Designed by ROF | Job No. 90-314 | Drawn by DRS | Date April 3, 1993 | Sht. 7 of 15

WATER VALVE BOX ELEVATIONS

STREET	STATION	OFFSET	PROPOSED ELEVATION
VALLEYVIEW	5+51.75	23.0' Rt.	157.21
VALLEYVIEW	6+39.22	25.0' Rt.	157.63



℄ CURVE DATA

Δ = 40° 00' 00" Δ/2 = 20° 00' 00" D = 23° 11' 48" R = 247.00' L = 172.44' T = 89.90' E = 15.85'

CURVE DATA BASED ON ℄ RADIUS

℄ STATION	℄ ARC LENGTH	FACE CURB LENGTH		CHORD LENGTH		DEFLECTION ANGLE	℄ TOTAL DEFLECTION
		LEFT CURB	RIGHT CURB	8' OFF LEFT FACE CURB	8' OFF RIGHT FACE CURB		
5+72.75	———	———	———	———	———	0° 00' 00"	0° 00' 00"
5+85.72	12.97'	12.02'	13.92'	11.60'	14.33'	1° 30' 15"	1° 30' 15"
6+00.00	14.28'	13.24'	15.32'	12.78'	15.78'	1° 39' 22"	3° 09' 38"
6+20.00	20.00'	18.54'	21.46'	17.89'	22.10'	2° 19' 11"	5° 28' 49"
6+39.22	19.22'	17.82'	20.62'	17.19'	21.24'	2° 13' 45"	7° 42' 34"
6+50.57	11.35'	10.52'	12.18'	10.15'	12.54'	1° 18' 59"	9° 01' 33"
6+63.15	12.58'	11.66'	13.50'	11.25'	13.90'	1° 27' 33"	10° 29' 06"
6+76.20	13.05'	12.10'	14.00'	11.67'	14.42'	1° 30' 49"	11° 59' 55"
6+89.25	13.05'	12.10'	14.00'	11.67'	14.42'	1° 30' 49"	13° 30' 43"
7+01.83	12.58'	11.66'	13.50'	11.25'	13.90'	1° 27' 33"	14° 58' 16"
7+13.18	11.35'	10.52'	12.18'	10.15'	12.54'	1° 18' 59"	16° 17' 15"
7+30.00	16.82'	15.59'	18.05'	15.05'	18.59'	1° 57' 03"	18° 14' 18"
7+45.19	15.19'	14.08'	16.30'	13.59'	16.79'	1° 45' 42"	20° 00' 00"
TOTAL	172.44'	159.87'	185.01'	Defl. / ft. = 6.9590 min.			

Existing Curve

No.	Revision	By	Date

CITY OF WICHITA, KANSAS

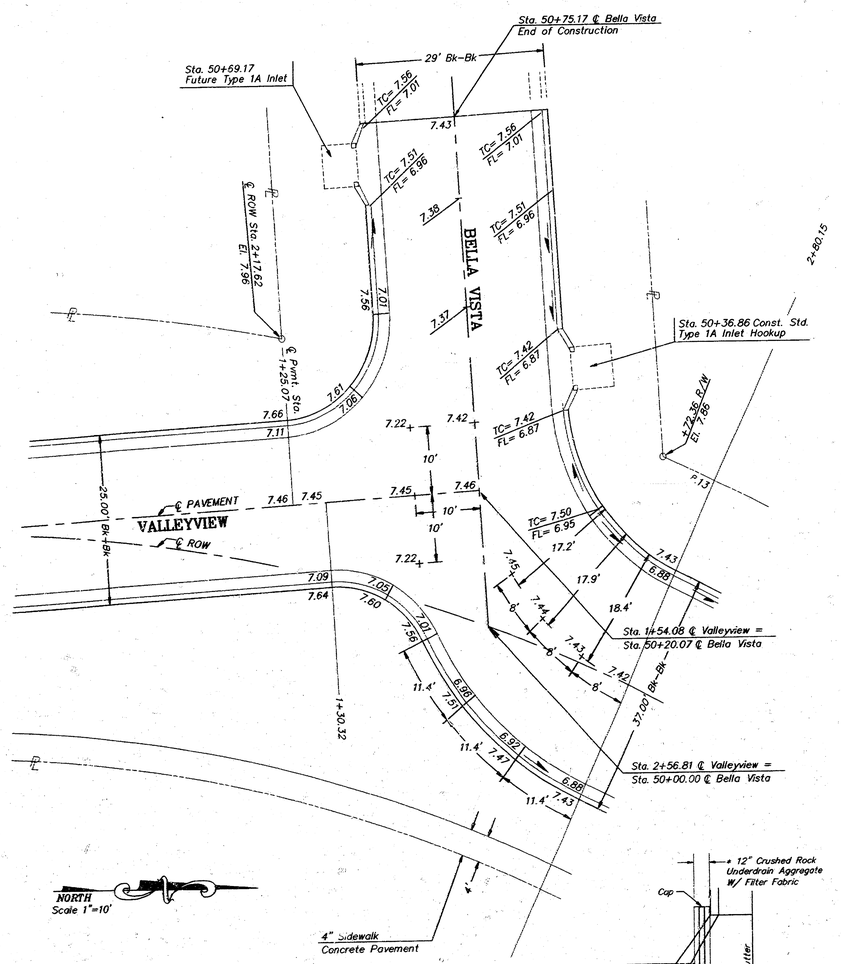
VALLEYVIEW

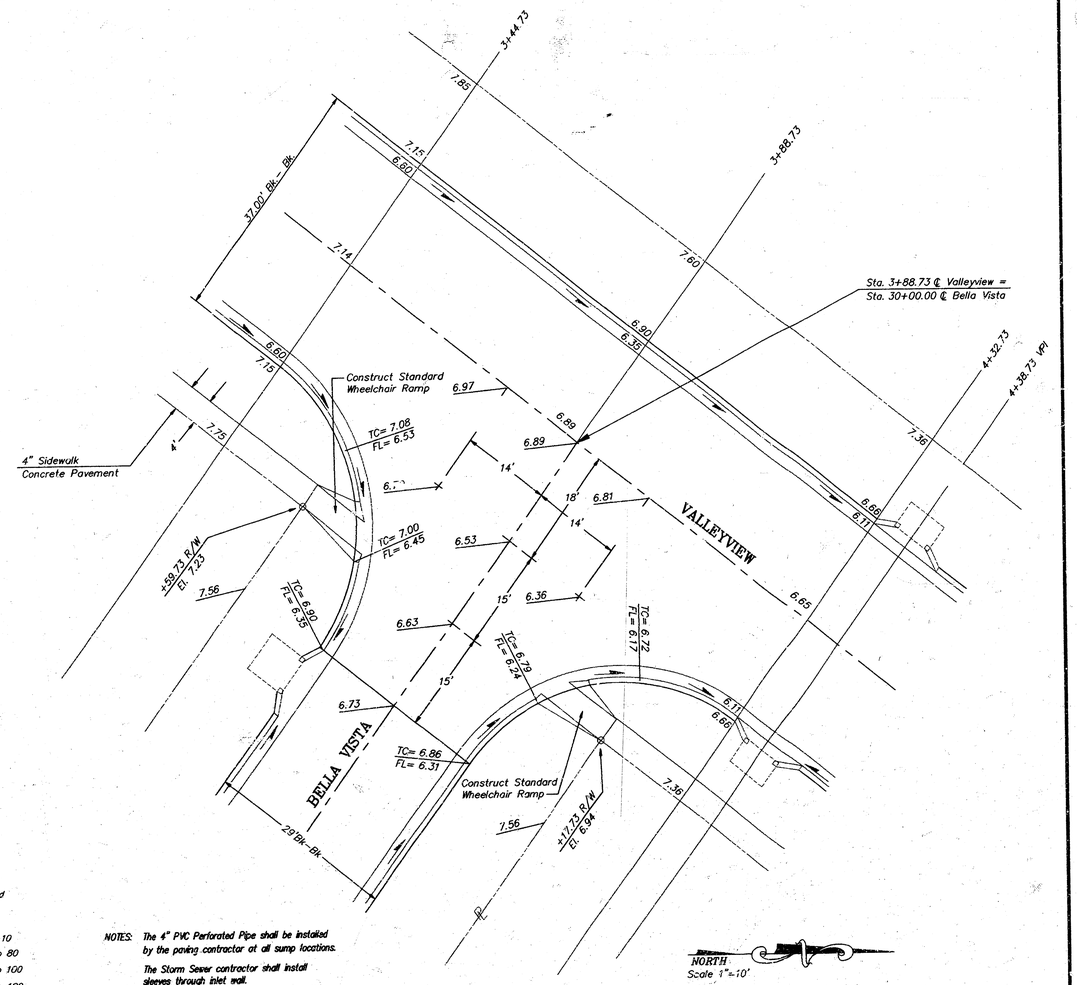
STA. 4+50.00 TO 6+39.22

City of Wichita Project No. 472-82282

ENGINEERING ✦ SURVEYING
608 N. West Street Suite #292
Wichita, KS 67203 (316) 946-0370

Designed by RDF	Job No. 90-314	Sht. 8 of 15
Drawn by DnS	Date April 3, 1993	





* UNDERDRAIN AGGREGATE
Percent of Aggregate Retained

1"	0
3/4"	0 to 10
3/8"	45 to 80
#4	90 to 100
#8	95 to 100

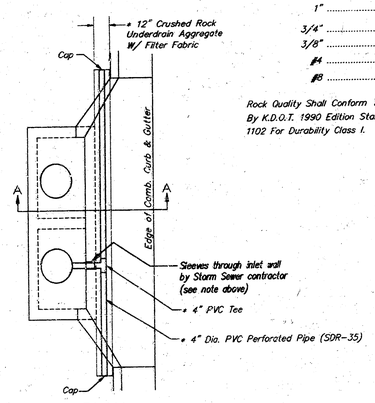
Rock Quality Shall Conform To The Requirements Specified By K.D.O.T. 1990 Edition Standard Specificotion Subsection 1102 For Durability Class I.

NOTES: The 4" PVC Perforated Pipe shall be installed by the paving contractor at all sump locations.

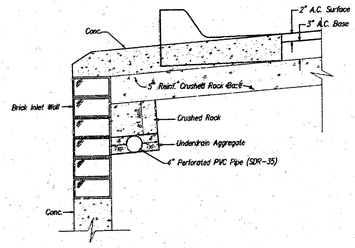
The Storm Sewer contractor shall install sleeves through inlet wall.

Cost of Underdrain System to be Incidental to the Reinforced Crushed Rock Subgrade.

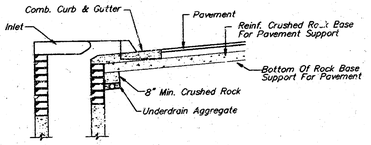
Inlet Type May Vary From That Shown.



PLAN

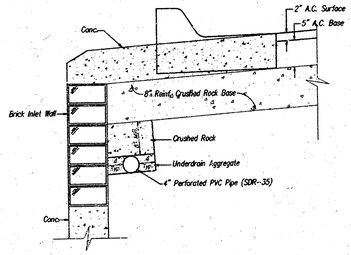


TRENCH DRAIN DETAIL FOR RES. STREETS
NOT TO SCALE



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

SECTION A-A



TRENCH DRAIN DETAIL FOR ARTERIAL STREETS
NOT TO SCALE

PAVEMENT UNDERDRAIN DETAIL
NOT TO SCALE

No.	Revision	By	Date

CITY OF WICHITA, KANSAS

INTERSECTION DETAILS

VALLEYVIEW STA. 2+56.81 & 3+88.73

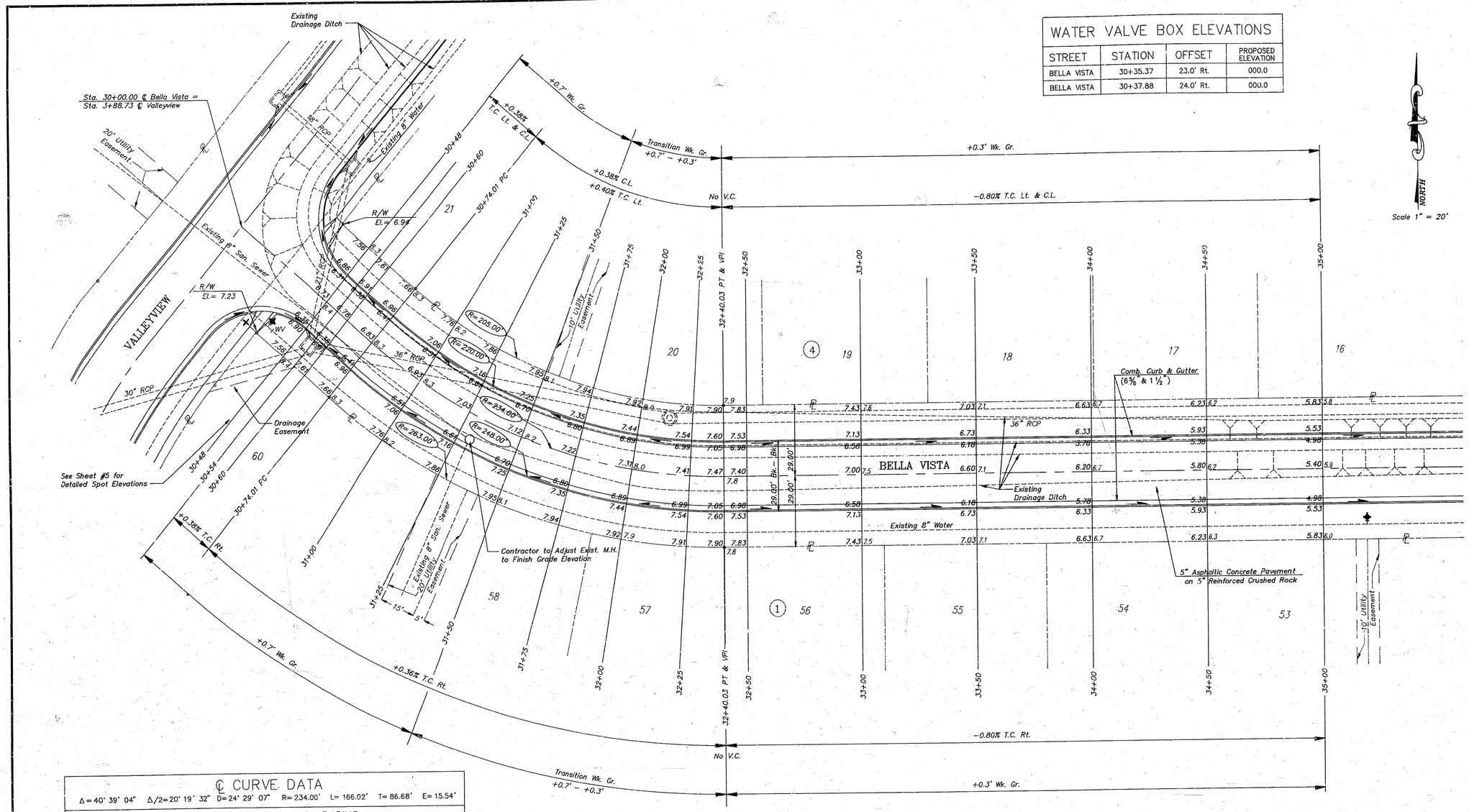
City of Wichita Project No. 472-82282

Terra Tech Inc.
ENGINEERING ✦ SURVEYING
608 N. West Street Suite #292
Wichita, KS 67203 (316) 946-0370

Designed by RDF	Job No. 90-314	Sht. 9 of 15
Drawn by RDF	Date April 3, 1993	

WATER VALVE BOX ELEVATIONS

STREET	STATION	OFFSET	PROPOSED ELEVATION
BELLA VISTA	30+35.37	23.0' Rt.	000.0
BELLA VISTA	30+37.88	24.0' Rt.	000.0



℄ CURVE DATA

Δ = 40° 39' 04" Δ/2 = 20° 19' 32" D = 24° 29' 07" R = 234.00' L = 166.02' T = 86.68' E = 15.54'

CURVE DATA BASED ON ℄ RADIUS

℄ STATION	℄ ARC LENGTH	FACE CURB LENGTH		CHORD LENGTH		DEFLECTION ANGLE	℄ TOTAL DEFLECTION
		LEFT CURB	RIGHT CURB	8' OFF LEFT FACE CURB	8' OFF RIGHT FACE CURB		
30+74.01	———	———	———	———	———	0° 00' 00"	0° 00' 00"
31+00.00	25.99'	24.43'	27.54'	23.53'	28.42'	3° 10' 53"	3° 10' 53"
+25.00	25.00'	23.50'	26.50'	22.64'	27.34'	3° 03' 39"	6° 14' 32"
+50.00	25.00'	23.50'	26.50'	22.64'	27.34'	3° 03' 38"	9° 18' 10"
+75.00	25.00'	23.50'	26.50'	22.64'	27.34'	3° 03' 39"	12° 21' 49"
32+00.00	25.00'	23.50'	26.50'	22.64'	27.34'	3° 03' 38"	15° 25' 27"
+25.00	25.00'	23.50'	26.50'	22.64'	27.34'	3° 03' 39"	18° 29' 06"
+40.03	15.03'	14.14'	15.93'	13.62'	16.45'	1° 50' 26"	20° 19' 32"
TOTAL	166.02'	156.09'	175.95'	Defl. / ft. = 7.3456 min.			

No.	Revision	By	Date

CITY OF WICHITA, KANSAS

BELLA VISTA

STA. 30+00.00 TO 35+00.00

City of Wichita Project No. 472-82282

Terra Tech Inc. ENGINEERING ◆ SURVEYING
608 N. West Street Suite #292
Wichita, KS 67203 (316) 946-0370

Designed by RDF	Job No. 90-314	Sht. 10 of 15
Drawn by ORS	Date April 3, 1991	

℄ CURVE DATA

Δ = 89° 20' 56" Δ/2 = 44° 40' 28" D = 72° 31' 35" R = 79.00' L = 123.20' T = 78.11' E = 32.09'

CURVE DATA BASED ON ℄ RADIUS

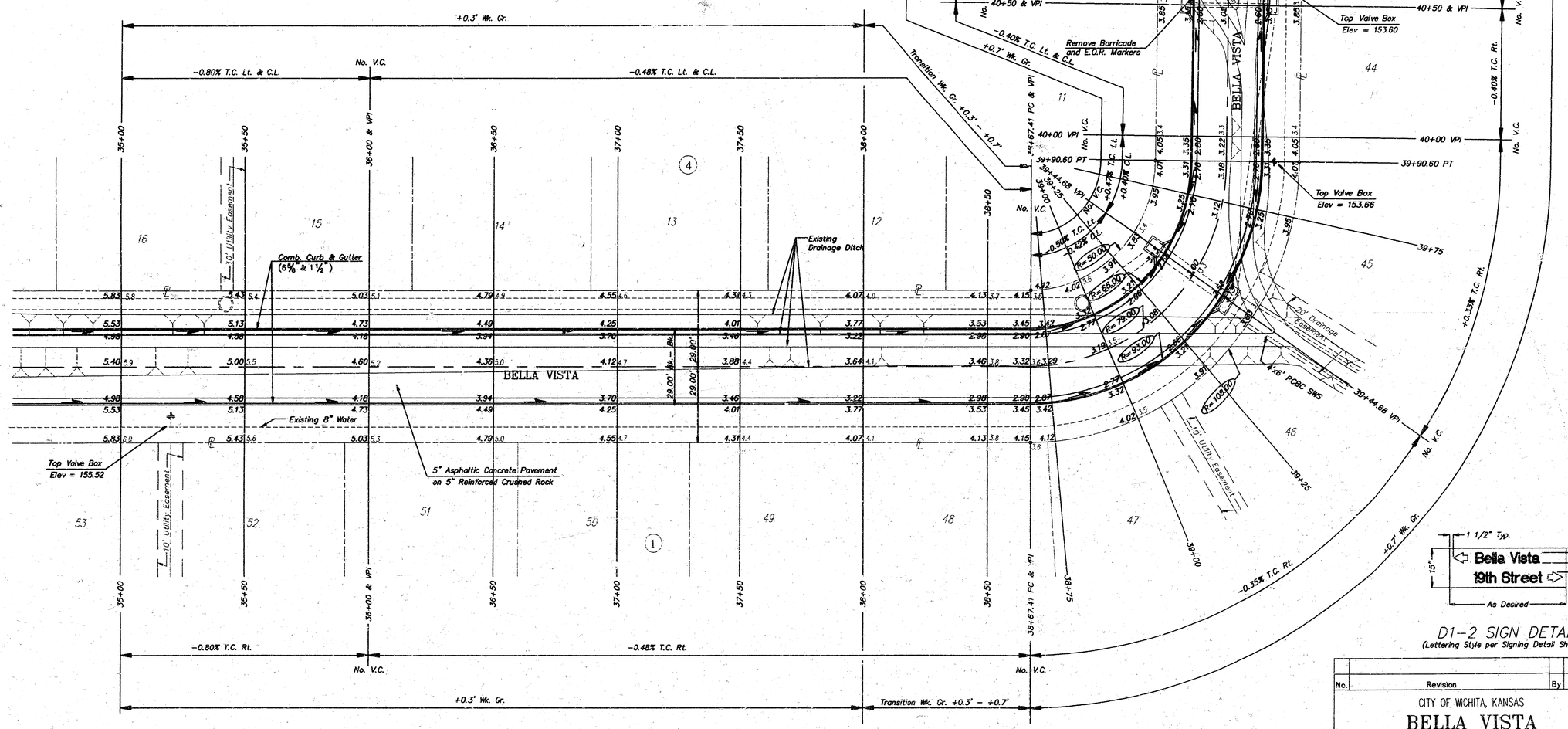
℄ STATION	℄ ARC LENGTH	FACE CURB LENGTH		CHORD LENGTH		DEFLECTION ANGLE	℄ TOTAL DEFLECTION
		LEFT CURB	RIGHT CURB	6' OFF LEFT FACE CURB	8' OFF RIGHT FACE CURB		
38+67.41	———	———	———	———	———	0° 00' 00"	0° 00' 00"
38+75.00	7.59'	6.25'	8.94'	5.48'	9.71'	2° 45' 15"	2° 45' 15"
39+00.00	25.00'	20.57'	29.43'	17.96'	31.83'	9° 03' 57"	11° 49' 12"
39+25.00	25.00'	20.57'	29.43'	17.96'	31.83'	9° 03' 57"	20° 53' 09"
39+44.68	19.68'	16.19'	23.17'	14.16'	25.10'	7° 08' 12"	28° 01' 21"
39+50.00	5.32'	4.38'	6.26'	3.84'	6.80'	1° 55' 45"	29° 57' 06"
39+75.00	25.00'	20.57'	29.43'	17.96'	31.83'	9° 03' 57"	39° 01' 03"
39+90.60	15.60'	12.84'	18.36'	11.24'	19.91'	5° 39' 25"	44° 40' 28"
TOTAL	123.20'	101.36'	145.03'	Defl. / ft. = 21.76 min.			

WATER VALVE BOX ELEVATIONS

STREET	STATION	OFFSET	PROPOSED ELEVATION
BELLA VISTA	35+20.04	22.0' Rt.	155.52
BELLA VISTA	39+90.60	22.0' Rt.	153.66
BELLA VISTA	40+56.19	23.0' Rt.	153.60

NORTH

Scale 1" = 20'



NOTE: Remove Existing Street Name Sign at 19th Street and Bella Vista.

D1-2 SIGN DETAIL
(Lettering Style per Signing Detail Sheet 6)

No.	Revision	By	Date

CITY OF WICHITA, KANSAS

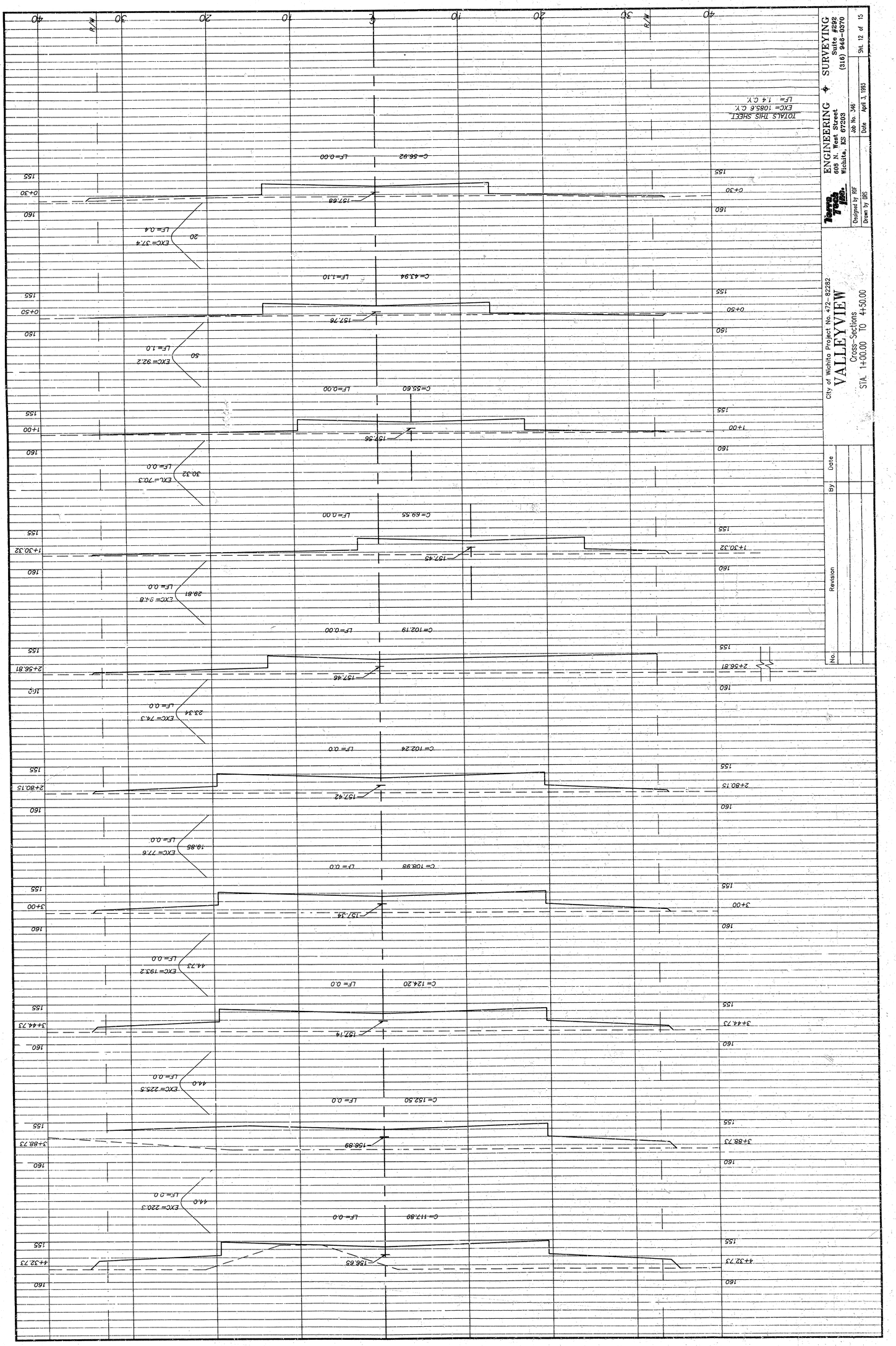
BELLA VISTA

STA. 35+00.00 TO 40+66.17

City of Wichita Project No. 472-82282

TERRA TECH Inc. ENGINEERING ✦ SURVEYING
608 N. West Street Suite #292
Wichita, KS 67203 (316) 946-0370

Designed by RDF	Job No. 90-314	
Drawn by DRS	Date April 3, 1993	Sht. 11 of 15



ENGINEERING ✦ SURVEYING
609 N. West Street Suite #292
Wichita, KS 67203 (316) 946-0270

Terra Tech Inc.

Designed by RSF
Drawn by DBS
Job No. 346
Date April 3, 1993
Sht. 12 of 15

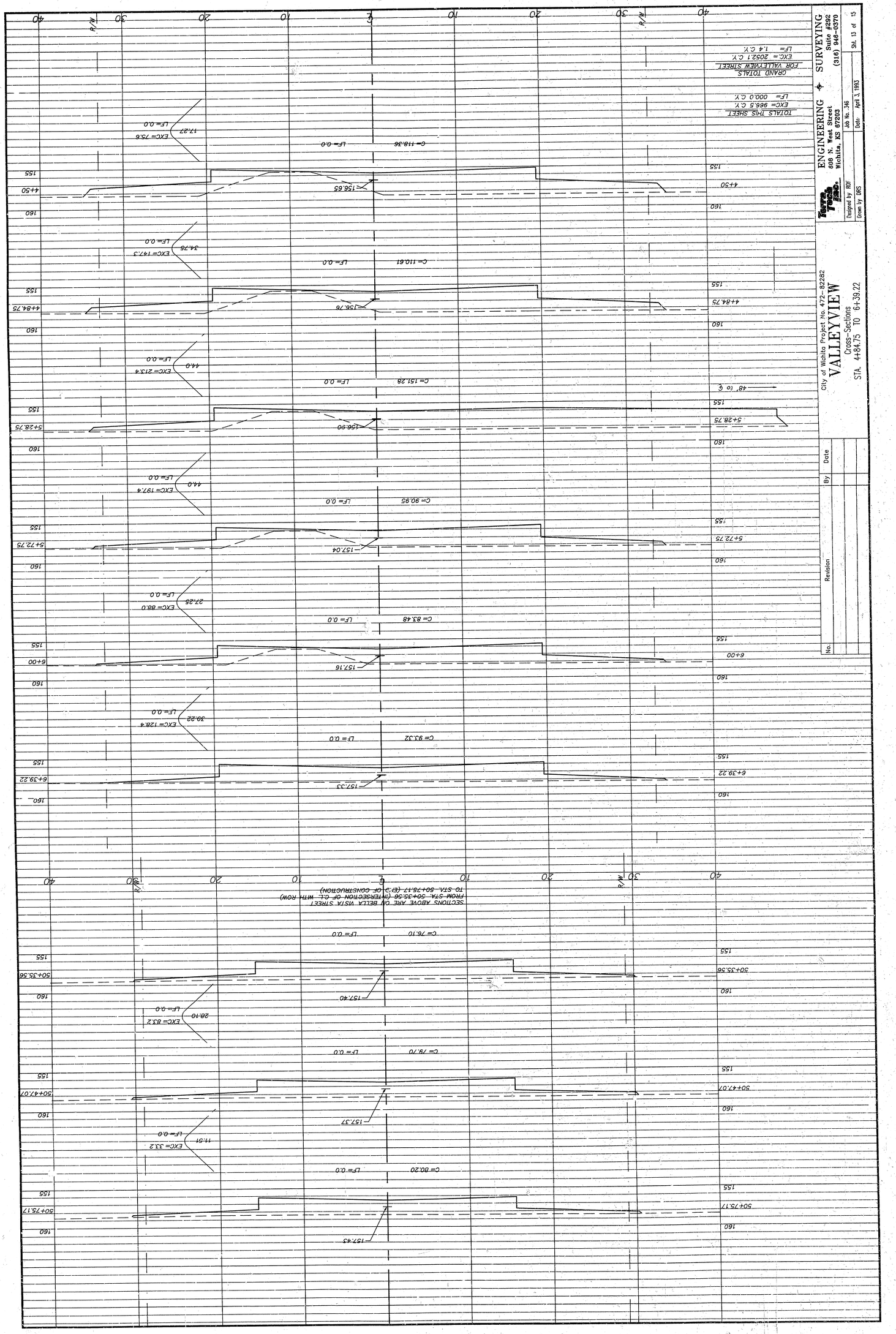
City of Wichita Project No. 472-82282

VALLEYVIEW

Cross-Sections

STA. 1+00.00 TO 4+50.00

No.	Revision	By	Date



City of Wichita Project No. 472-82282

VALLEYVIEW

Cross-Sections

STA. 4+84.75 TO 6+39.22

Terra Tech Inc.

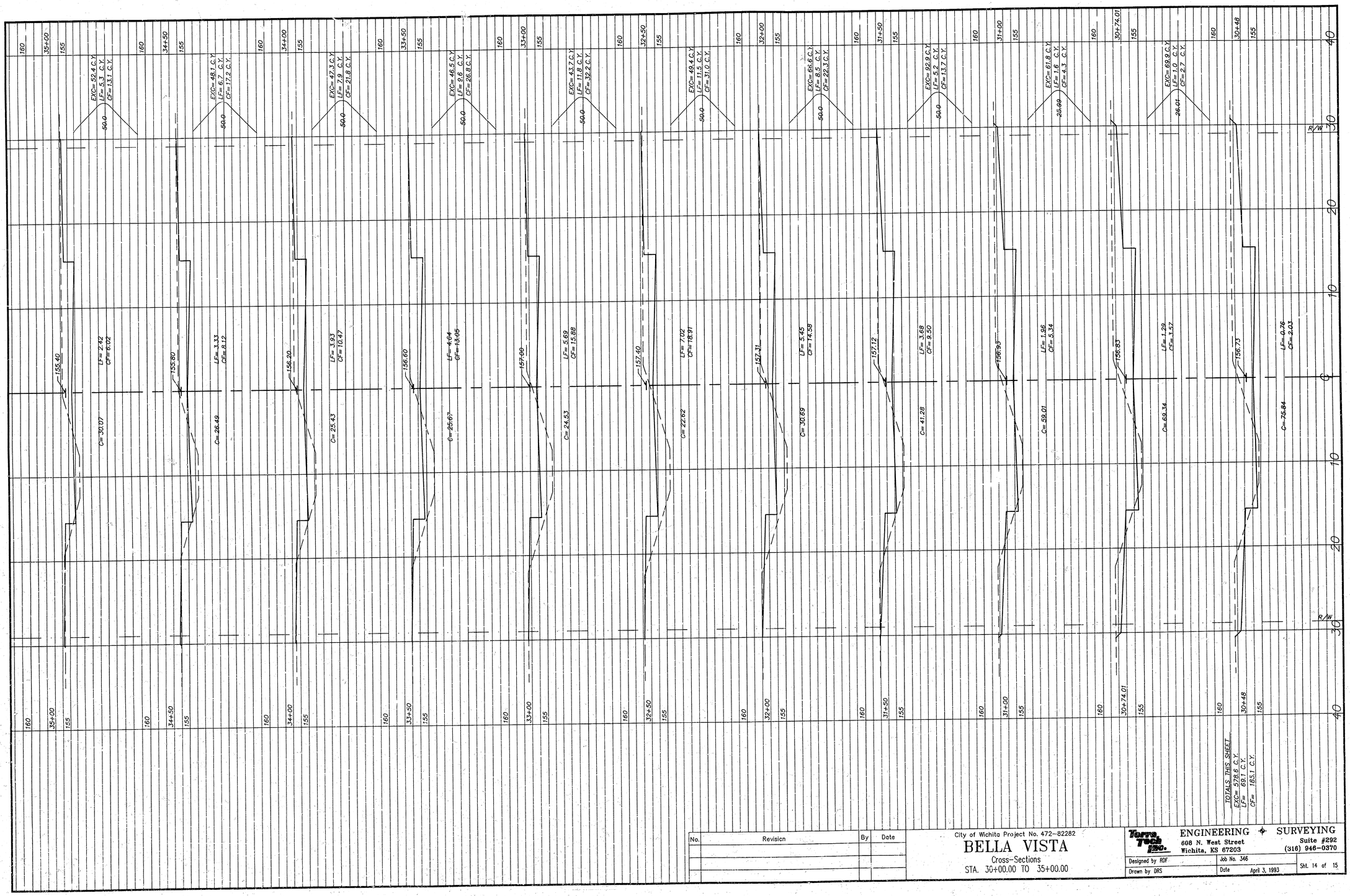
ENGINEERING ✦ SURVEYING

608 N. West Street
Wichita, KS 67203

Suite #292
(316) 946-0370

Designed by RDF
Drawn by DRS
Job No. 346
Date April 3, 1993
Sht. 13 of 15

No.	Revision	By	Date



No.	Revision	By	Date

City of Wichita Project No. 472-82282

BELLA VISTA

Cross-Sections

STA. 30+00.00 TO 35+00.00

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Wichita, KS 67203 (316) 946-0370

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Drawn by DRS	Date April 3, 1993	



No.	Revision	By	Date

City of Wichita Project No. 472-76-245-00000-000-000-001

BELLA VISTA

Cross-Sections

STA. 35+50.00 TO 40+66.17

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