SHEET NO.	TOTAL SHEETS
1	12

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

STREET IMPROVEMENTS

MEADOW PASS - FROM THE WEST LINE OF LOT 11, BLOCK 5, TO THE EAST LINE OF LOT 13, BLOCK 5.
LAKE RIDGE - FROM THE SOUTH LINE OF LOT 18, BLOCK 3, TO THE SOUTH LINE OF MEADOW PASS.
SIDEWALK - ALONG THE SOUTH LINE MEADOW PASS FROM THE WEST LINE OF LOT 11, BLOCK 5, TO THE EAST LINE OF LOT 13, BLOCK 5. AND ALONG THE WEST LINE OF LAKE RIDGE FROM THE SOUTH LINE OF LOT 18, BLOCK 3, TO THE SOUTH LINE OF MEADOW PASS.

IN

NORTHRIDGE LAKES-PHASE III

CITY OF WICHITA PROJECT NO. 472-76-245-8285-000-000-001
INDEX NO. 764779

INDEX OF SHEETS

1. TITLE SHEET
2. PLAT
3. TYPICAL SECTION
4. PAVING PLAN - MEADOW PASS
5. PAVING PLAN - LAKE RIDGE
6. MISCELLANEOUS PAVING DETAILS
7. STD. TYPE 1A CURB INLET DETAILS (L=6'-4")
8. INLET PROTECTION DETAILS
9. SIGNING DETAILS
10.-12. CROSS SECTIONS

PROJECT SURVEY CONTROL
CITY OF WICHITA VERTICAL DATUM

BM 1: CHIS "6" BACK OF CURB, NORTH SIDE NORTHRIDGE, SOUTH SIDE LOT 31, BLOCK 4, AT FIRE HYDRANT. ELEV.=174.71

BM 2: CHIS "6" CENTER SOUTH END AREA INLET NEAR BACK OF LOT LINE P.I. OF LOT 31, BLOCK 3. ELEV.=168.80

BM 3: CHIS "6" BACK OF CURB NEAR NORTHEAST CORNER LOT 29, BLOCK 3. ELEV.=164.86

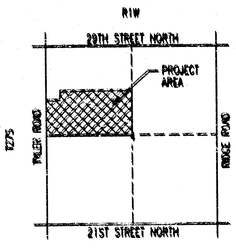
BM 4: SET 3" "T" POST 0.8± BELOW GROUND, 8'± NORTHEAST OF THE NORTHEAST CORNER LOT 8, BLOCK 4, NEAR TOP BANK. ELEV.=172.07

BM 5: CHIS "2 TOP SOUTH CURB MEADOW PASS AT NORTHWEST CORNER LOT 24, BLOCK 3. ELEV.=178.77.

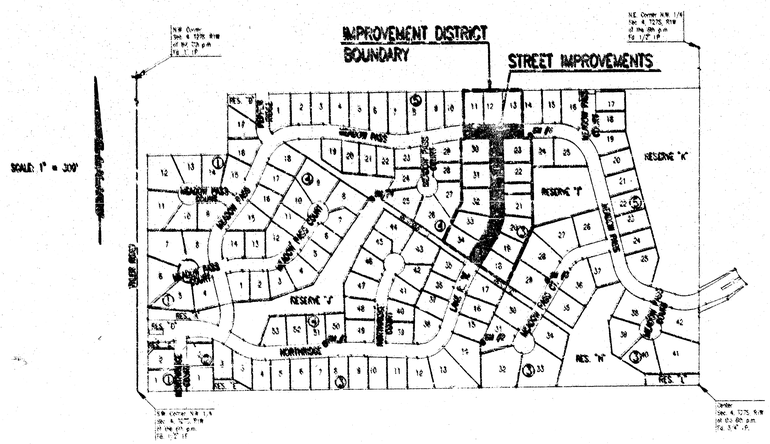
EARTHWORK

EXCAVATION	38 CU. YDS.
COMPACTED FILL	3,481 CU. YDS.
CONTRACTOR FURNISHED BORROW	6,421 CU. YDS.

PROJECT LENGTH = 844.68 LIN. FT.



VICINITY MAP



GENERAL NOTES

UNDERGROUND UTILITY SERVICE LINES AND OVERHEAD UTILITY POLE LINES ARE TO BE ADJUSTED AS NECESSARY BY OTHERS PRIOR TO CONSTRUCTION UNLESS THE PLANS SPECIFICALLY CALL FOR THEIR ADJUSTMENT BY THE CONTRACTOR. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.

TREES AND SHRUBS IN PUBLIC RIGHT-OF-WAY WHICH ARE IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR WITH THE ENGINEER'S APPROVAL. TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE SAVED AND PROTECTED FROM DAMAGE.

RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR AND APPROVED AS NOTED BELOW.

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 ARCHEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.

CONTRACTOR SHALL SATISFY HIMSELF OF SURFACE AND SUBSURFACE CONDITIONS PRIOR TO BIDDING.

TEMPORARY SURFACING MATERIAL (ROCK, ASPHALT, ETC.) MAY HAVE BEEN PLACED WITHIN STREET RIGHTS-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 "EXCAVATION".

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: PEOPLES NATURAL GAS, K.G.E. ELECTRIC, SOUTHWESTERN BELL TELEPHONE, MULTIMEDIA CABLEVISION, CITY OF WICHITA SEWER MAINTENANCE AND CITY OF WICHITA WATER DEPARTMENT.

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.

THE WATER DEPARTMENT SHALL FIELD LOCATE WATER VALVES ONE TIME DURING CONSTRUCTION WHEN REQUESTED BY THE CONTRACTOR. IF 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.

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

INLET HOODIPS AND INLET PROTECTION SHALL BE BID PER EACH REGARDLESS OF INLET SIZE.

THIS PROJECT DOES NOT INCLUDE ANY PROVISIONS FOR CONSTRUCTION OF DRIVEWAYS.

TOPS OF ALL EXISTING SWS INLETS SHALL BE SET IN PLACE AS SHOWN ON THE SWS INLET DETAIL SHEET AND AT THE PROPER ELEVATION TO MATCH THE ADJACENT TOP OF CURB. PAYMENT FOR THIS WORK SHALL BE PER EACH AT THE UNIT PRICE BID FOR "INLET ADJUSTMENT", REGARDLESS OF INLET SIZE OR AMOUNT OF ADJUSTMENT REQUIRED.

THIS PROJECT INCLUDES ALTERNATE PAVEMENT TYPES. THE CONTRACTOR SHALL BID ALL ALTERNATE 1 AND ALTERNATE 2 BID ITEMS AND THE CITY ENGINEER SHALL THEN SPECIFY WHICH PAVEMENT TYPE IS TO BE USED FOR THIS PROJECT. THE ALTERNATE SELECTED BY THE CITY ENGINEER SHALL BE USED FOR THE ENTIRE PROJECT.

THE CONTRACTOR SHALL SEED AND MULCH ALL UNPAVED AREAS DISTURBED BY HIS CONSTRUCTION OPERATIONS AT THE RATES SHOWN ON SHEET NO. 8. THIS WORK SHALL BE PAID FOR AT THE LUMP SUM PRICE BID FOR "TEMPORARY PROJECT SEEDING".

CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION OPERATIONS WITH STORM WATER SEWER 465 CONTRACTOR (PROJ. NO. 468-76-245-19498-000-000-001), SANITARY SEWER CONTRACTOR (PROJ. NO. 468-76-245-82782-000-000-001) AND WATER LINE CONTRACTOR (PROJ. NO. 448-76-245-88219-000-000-001). CONTRACTOR SHALL BE REQUIRED TO WORK AROUND AND PROTECT FROM DAMAGE ALL THE ABOVE IMPROVEMENTS. ANY DAMAGED BY HIS CONSTRUCTION OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER AT HIS OWN EXPENSE.

FEBRUARY 1998

PLANS PREPARED BY
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

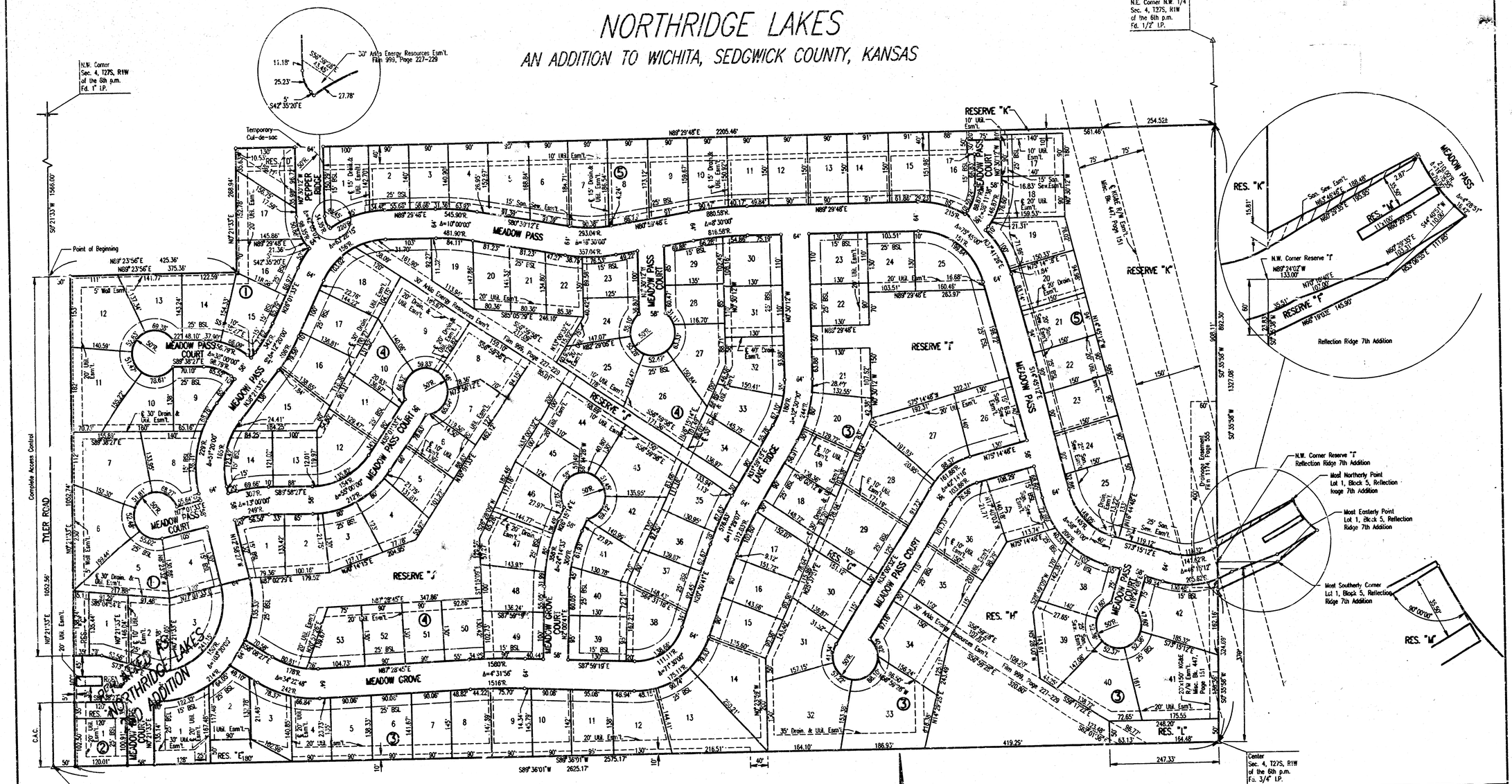


mw/auto/dgn: c:\697\97015\sht001.dgn
date plotted: February 3, 1998
drawn by: Duane Elam

PROJECT NO.	SHEET NO.	TOTAL SHEETS
472-76-245-82885-000-000-001	2	12

NORTHRIDGE LAKES

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS



NOTE: MEADOW GROVE AND MEADOW GROVE COURTS STREET NAMES HAVE BEEN CHANGED BY SEPARATE INSTRUMENT TO NORTHRIDGE AND NORTHRIDGE COURTS

B.M. – CITY OF WICHITA BENCH MARK DISC, 38 FEET WEST AND 90 FEET SOUTH OF THE INTERSECTION OF THE CENTERLINES OF TYLER ROAD AND 21ST STREET NORTH.
ELEV. 1357.349 M.S.L. = 169.949 CITY DATUM

B.M. – RAILROAD SPIKE IN SOUTHWEST SIDE OF POWER POLE LOCATED 75' NORTH AND 58' EAST OF THE INTERSECTION OF THE CENTERLINES OF RIDGE ROAD AND 21ST STREET NORTH.
ELEV. 1330.70 M.S.L. = 143.30 CITY DATUM

SCALE: 1=100'

o = IRON SET

BSL = BUILDING SETBACK LINE
CAC = COMPLETE ACCESS CONTROL

No.	Revision	By	Date

NORTHRIDGE LAKES
PHASE III
PLAT

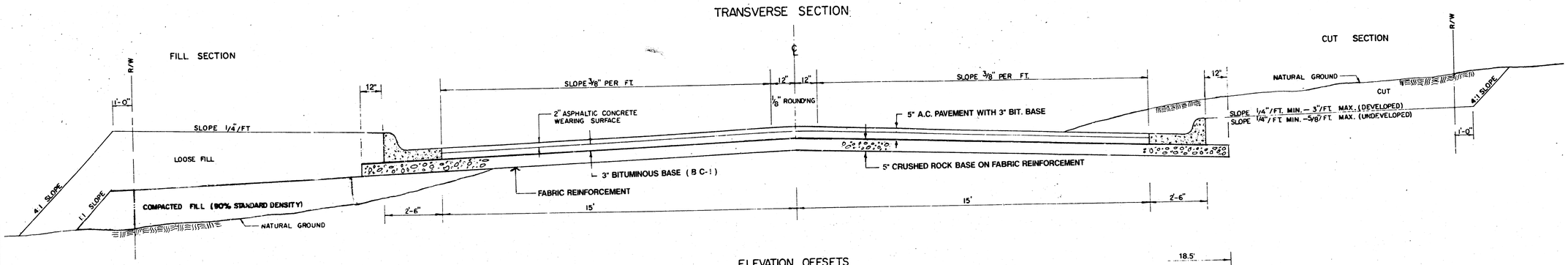
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by	Job No. 32-97B15	Sht. 2 of 12
Drawn by	Date JAN. 1998	

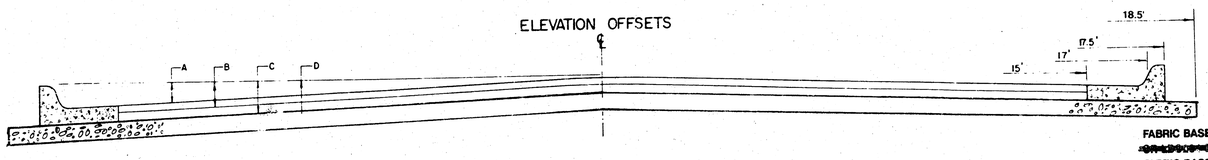
usr/ustn/dgn.l/1997/97b15/1haldgn
date plotted: January 27, 1998
deliver to dwaine dunn

TYPICAL 35' PAVEMENT DETAILS

TRANSVERSE SECTION



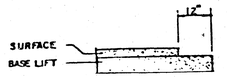
ELEVATION OFFSETS



	DISTANCE FROM CENTERLINE (LT. & RT.)												
	0'	2'	4'	6'	8.5'	10'	12'	14'	15'	17'	17.5'		
A: TOP OF CURBS TO TOP OF SURFACE LIFT	0.04	0.08	0.14	0.21	0.29	0.33	0.39	0.46	0.49	—	—	—	—
B: TOP OF CURBS TO TOP OF BASE LIFT	0.21	0.25	0.31	0.37	0.45	0.50	0.56	0.62	0.65	—	—	—	—
C: TOP OF CURBS TO TOP OF ROCK BASE LIFT	0.46	0.50	0.56	0.63	0.71	0.75	0.81	0.88	0.91	0.98	1.00		—
D: TOP OF CURBS TO TOP OF SUBGRADE													

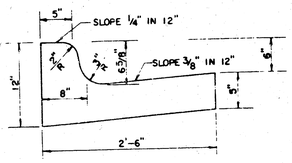
FABRIC BASE REINFORCEMENT SHALL BE B X 1100 BY TENSAR CORPORATION ~~OR EQUAL~~ OR APPROVED EQUAL.
FABRIC BASE REINFORCEMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS. CRUSHED ROCK SHALL BE UNIFORMLY GRADED FROM 1 - 1/2" MAXIMUM SIZE TO NOT MORE THAN 10% PASSING A NO. 200 SIEVE.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

TRANSVERSE CONSTRUCTION JOINTS

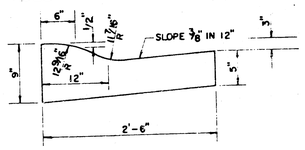


TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENT JOINS EXISTING FLEXIBLE BASE PAVEMENT AS SHOWN BY THE DETAIL. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION OF THE TRANSVERSE JOINT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS 5" ASPHALTIC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

COMBINED CURB & GUTTER



ROLL TYPE COMBINED CURB & GUTTER



CRUSHED ROCK OR RECYCLED ASPHALT PAVEMENT (RAP) GRADATION REQUIREMENTS
PERCENT OF AGGREGATE RETAINED

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

ROCK QUALITY SHALL CONFORM TO THE REQUIREMENTS SPECIFIED BY THE KDOT 1990 EDITION STANDARD SPECIFICATION SUBSECTION 1102 FOR DURABILITY CLASS 1

NOTE: 5" CRUSHED ROCK BASE ON FABRIC REINFORCEMENT IS ALTERNATE NO. 1 MATERIAL. ALTERNATE NO. 2 SHALL BE 5" RECYCLED ASPHALT PAVEMENT (RAP) ON FABRIC REINFORCEMENT. ALL REFERENCES ON THIS SHEET TO ROCK OR CRUSHED ROCK BASE SHALL APPLY ALSO TO RECYCLED ASPHALT PAVEMENT (RAP) BASE MATERIAL.

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.

REVISED 1-3-93 JKB
REVISED 10-31-96 JKB

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

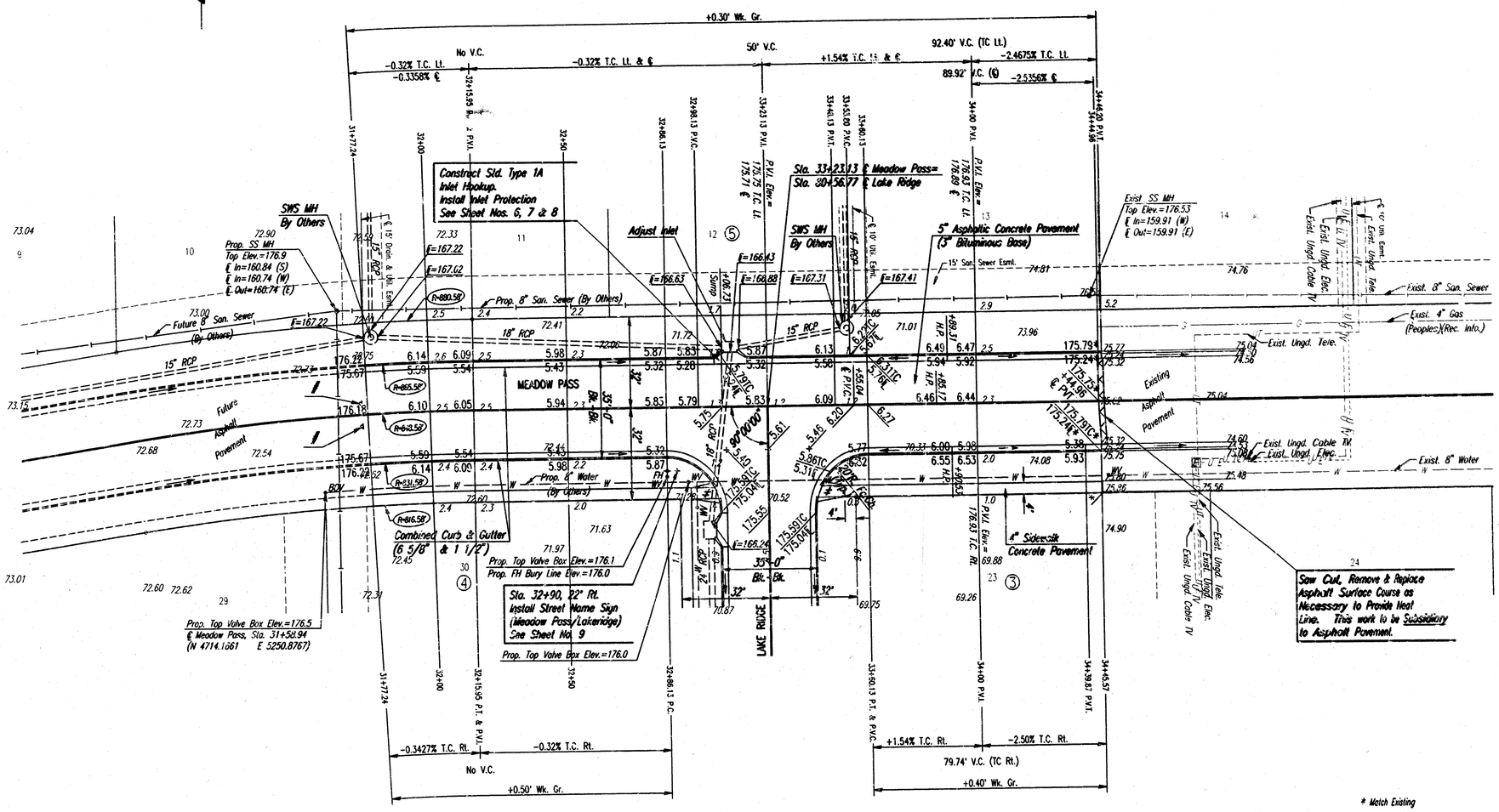
10 1 S 3

Proj. No. 472 76 245 82885 000 000 001

PROJECT NO.	SHEET NO.	TOTAL SHEETS
472-76-245-82885-000-000-001	4	12

WATER VALVE BOX ELEVATIONS			
STREET	STATION	OFFSET	PROPOSED ELEVATION
MEADOW PASS	31+59.5	26.0' Rt.	176.5
MEADOW PASS	32+86.13	24.0' Rt.	176.1
MEADOW PASS	32+94	26.0' Rt.	176.0

SCALE: 1"=20'



℄ CURVE DATA							
Δ=8° 30'00"	D=6° 45'07"	R=848.58'	L=125.89'	T=63.05'	E=2.34'		
CURVE DATA BASED ON ℄ RADIUS Δ/2= 4° 15'00"							
℄ 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+90.06	——	——	——	——	——	0° 00'00"	0° 00'00"
31+77.24	87.18'	——	——	89.71'	84.57'	2° 56'35"	2° 56'35"
32+00	22.76'	23.22'	22.30'	23.43'	22.09'	0° 46'06"	3° 42'42"
32+15.95	15.95'	16.27'	15.63'	16.42'	15.48'	0° 32'18"	4° 15'00"
TOTAL	125.89'	39.49'	37.93'				

Defl./ft.= 2.025578 min.

* Match Existing

// See Sheet No. 9 for Signing Notes & Details

≠ Construct Std. Wheelchair Ramp

Note: Storm Water Sewer Pipes & Structures to be Constructed by Others under C.O.W. Proj. No. 468-76-245-82498-000-000-001 (Storm Water Sewer No. 465). Contractor to Coordinate his work with said SWS Contractor.

NORTHRIDGE LAKES PHASE III

MEADOW PASS

STA. 31+77.24 TO STA. 34+46.20

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by	BER, GDD	Checked by	
Drawn by	BJS	Date JAN. 1998	Job No. 97B15

usr/ustn/dgn:1/1997/97b15/str31-35.dgn
date plotted: January 27, 1998
deliver to: dwaine dunn

PROJECT NO.	SHEET NO.	TOTAL SHEETS
472-76-245-82885-000-000-001	5	12

℄ CURVE DATA

Δ=32°30'00" D=27°01'35" R=212.00 L=120.25' T=61.79' E=8.82'

CURVE DATA BASED ON ℄ RADIUS Δ/2= 16°15'00"

℄ STATION	℄ ARC LENGTH	FACE CURB LENGTH LEFT CURB	FACE CURB LENGTH RIGHT CURB	CHORD LENGTH 8" OFF LEFT FACE CURB	CHORD LENGTH 8" OFF RIGHT FACE CURB	DEFLECTION ANGLE	℄ TOTAL DEFLECTION
75+90.64	———	———	———	———	———	0°00'00"	0°00'00"
76+00	9.36'	8.60'	10.12'	8.28'	10.46'	1°15'54"	1°15'54"
76+25	25.00'	24.00'	27.00'	22.04'	27.93'	3°22'42"	4°38'36"
76+50	25.00'	23.00'	27.00'	22.04'	27.93'	3°22'41"	8°01'18"
76+75	25.00'	23.00'	27.00'	22.04'	27.93'	3°22'42"	11°24'00"
77+00	25.00'	23.00'	27.00'	22.04'	27.93'	3°22'42"	14°46'42"
77+10.89	10.89'	10.01'	11.78'	9.61'	12.17'	1°28'18"	16°15'00"
TOTAL	120.25'	110.61'	129.90'				

Defl./ft.= 8.108108 min.

WATER VALVE BOX ELEVATIONS

STREET	STATION	OFFSET	PROPOSED ELEVATION
LAKE RIDGE	76+69.5	24.0' Lt.	173.7
LAKE RIDGE	80+22	26.0' Lt.	175.9

SCALE: 1"=20'

CAUTION!!!
10" H.P. Gas
Top of Pipe=169.07
Peoples Nat. Gas

Sta. 80+56.77 ℄ Lake Ridge=
Sta. 33+23.13 ℄ Meadow Pass

LAKE RIDGE

MEADOW PASS

RESERVE "J"

RESERVE "C"

Exist. 10" H.P. Gas (Peoples Natural Gas)

-0.36% T.C. Lt.

-0.4249% T.C. Lt.

+0.25' Wk. Gr.

-0.36% T.C. Lt.

+0.60% T.C. Lt.

+1.50% T.C. Lt.

No V.C.

75+90.64 P.C. & P.I.

77+10.89 P.T. & P.I.

79+00 P.I.

80+19.77 P.C.

Prop. 8" Water (By Others)

Prop. Top Valve Box Elev.=173.7

Prop. FH Elev. Line Elev.=173.6

Prop. Top Valve Box Elev.=175.9

5" Asphaltic Concrete Pavement (3" Bituminous Base)

4" Sidewalk Concrete Pavement

Adjust Inlet

Construct Std. Type 1A Inlet Hookup. Install Inlet Protection See Sheet Nos. 6, 7 & 8

Combined Curb & Gutter (3 5/8" Roll & 1 1/2")

Roll Curb Lt.

Roll Curb Rt.

15" RCP

18" RCP

24" RCP

℄ 40' Drain. Esmt.

℄ 10' Util. Esmt.

-0.36% T.C. Rt. & ℄

-0.3909% ℄

-0.36% T.C. Rt.

+0.05' Wk. Gr.

+0.60% T.C. Rt. & ℄

+1.50% T.C. Rt. & ℄

Walk Grade Varies See Spot Elev.

NOTE: THIS STREET TO BE CONSTRUCTED WITH ROLL-TYPE CURB. TOP OF CURB ELEVATIONS GIVEN ARE FOR FULL HEIGHT CURB.

Note: Storm Water Sewer Pipes & Structures to be Constructed by Others under C.O.W. Proj. No. 468-76-245-82498-000-000-001 (Storm Water Sewer No. 465). Contractor to Coordinate his work with said SWS Contractor.

NORTHRIDGE LAKES PHASE III

LAKE RIDGE

STA. 74+43.73 TO STA. 80+56.77

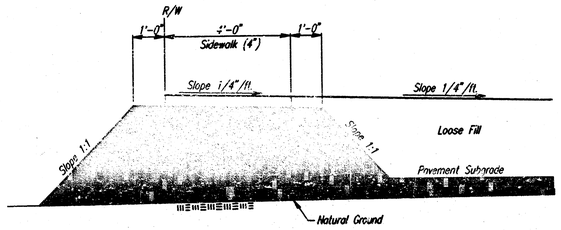
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by	BER, GDD	Checked by		
Drawn by	BJS	Date JAN. 1998	Job No. 97B15	

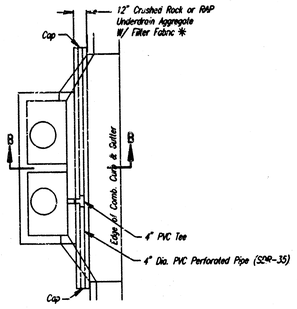
5

usr/ustn/dgn:l/1997/97b15/str17-80.dgn
date plotted: January 27, 1998
deliver to: dwaine dunn

PROJECT NO.	SHEET NO.	TOTAL SHEETS
472-76-245-82885-000-000-001	6	12



COMPACTED FILL DETAIL
WHERE SIDEWALK IS CONSTRUCTED
(See Plan Sheets for Locations)



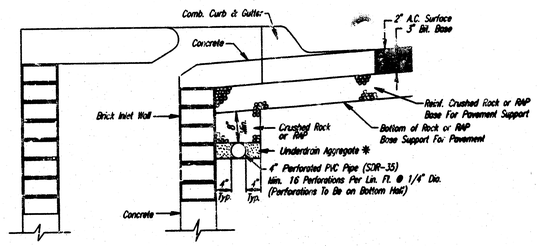
PLAN

* UNDERDRAIN AGGREGATE
PERCENT OF AGGREGATE RETAINED

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

ROCK QUALITY SHALL CONFORM TO THE REQUIREMENTS SPECIFIED BY THE KDOT 1990 EDITION STANDARD SPECIFICATION SUBSECTION 1102 FOR DURABILITY CLASS I.

PAVEMENT UNDERDRAIN LOCATIONS		
STREET	STATION	SIDE
MEDGW PASS	33+10	LT.
LAKE RIDGE	78+00	LT. & RT.



SECTION B-B

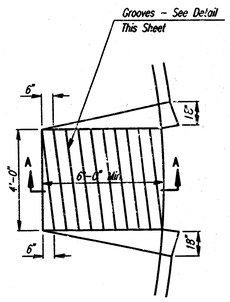
NOTE: PAVEMENT CONTRACTOR WILL BE REQUIRED TO INSTALL SDR 35, 4" PERFORATED DRAIN PIPE AND TEE AS INDICATED IN THE DETAILS ABOVE. A PIPE STUB HAS BEEN INSTALLED THROUGH WALLS OF CURB INLETS BY OTHERS IN A MANNER ALLOWING CONNECTION OF ADDITIONAL DRAIN PIPE AND TEE AS REQUIRED BY DETAILS ABOVE.

PAVEMENT UNDERDRAIN DETAIL

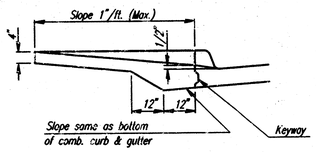
NOTE: PLACE 4" PVC PERFORATED PIPE AT ALL DRAINAGE SUMP LOCATIONS

COST OF UNDERDRAIN SYSTEM TO BE INCIDENTAL TO THE REINFORCED CRUSHED ROCK OR REINFORCED RECYCLED ASPHALT PAVEMENT (RAP) BASE.

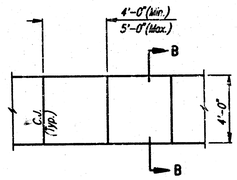
INLET TYPE MAY VARY FROM THAT SHOWN.



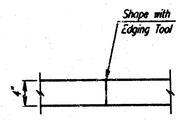
WHEELCHAIR RAMP DETAIL



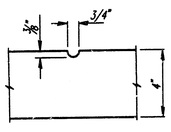
SECTION A-A



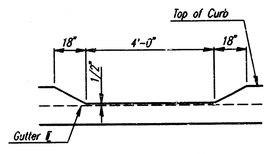
PLAN



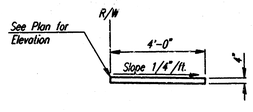
CONSTRUCTION JOINT



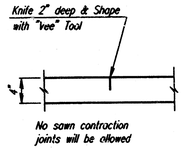
GROOVE DETAIL



DEPRESSED CURB DETAIL



SECTION B-B



CONTRACTION JOINT

TYPICAL WHEELCHAIR RAMP DETAILS

4" WALK DETAILS

NORTHRIDGE LAKES
PANASE III

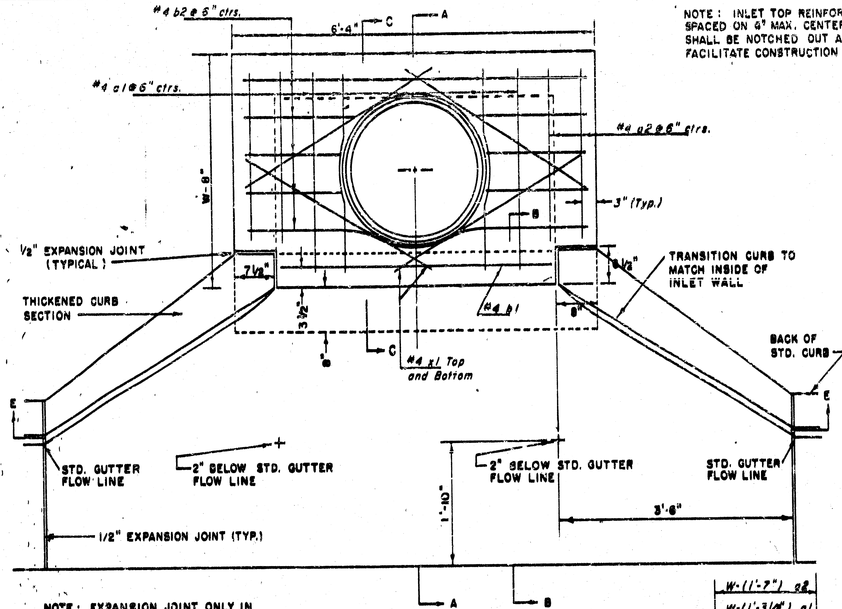
MISCELLANEOUS PAVING DETAILS

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by	BER, GDD	Checked by	
Drawn by	BJS	Date JAN. 1998	Job No. 97B15

6

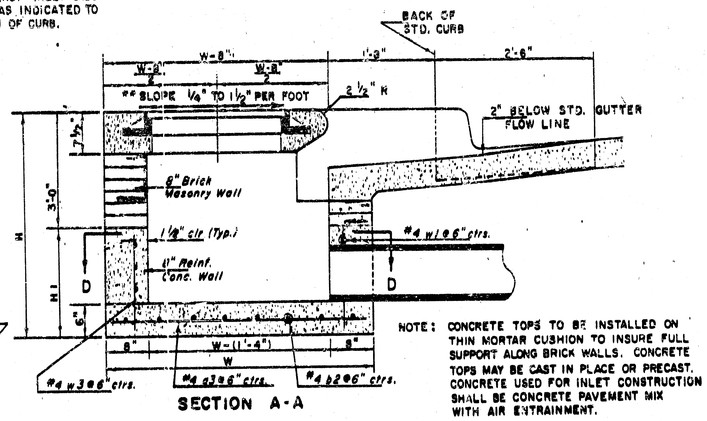
usr/ustn/dgn: i/1997/97b15/miscdtl.dgn
date plotted: january 27, 1998
deliver to: dwaine dunn



NOTE: EXPANSION JOINT ONLY IN CURB AREA WITH CONC. PAVEMENT.

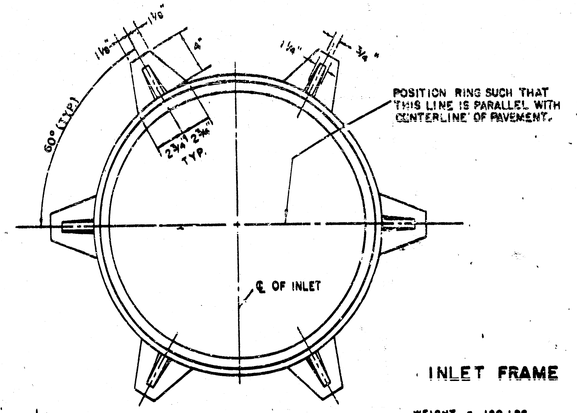
PLAN

NOTE: INLET TOP REINFORCING SHALL BE SPACED ON 6" MAX. CENTERS. INLET LIDS SHALL BE NOTCHED OUT AS INDICATED TO FACILITATE CONSTRUCTION OF CURB.



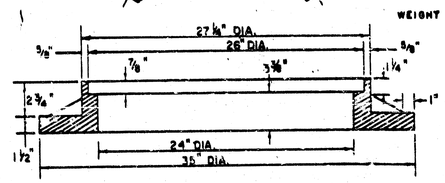
SECTION A-A

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.



INLET FRAME

WEIGHT = 180 LBS.



SEE CITY OF WICHITA STANDARD MANHOLE FRAME AND COVER DETAIL SHEET FOR COVER DETAIL TO BE USED WITH INLET FRAME.

NOTE: CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP ON THIS INLET WHEN H = 6'6" 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.

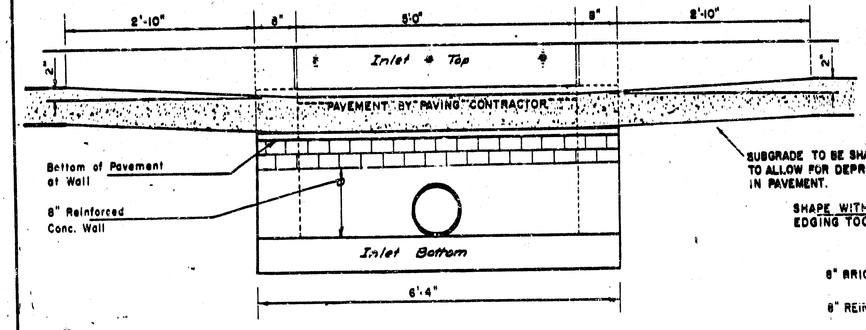
THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.

PRECAST SLAB AND FLOOR REINFORCING												
		W=4'-8"		W=5'-4"		W=6'-4"		W=7'-4"		W=8'-4"		
Mark	Size	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	
b1	#4	6	6'-7"	8	8'-7"	8	10'-7"	8	12'-7"	8	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"	
d1	#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	6'-1"	①	6'-1"	①	6'-1"	①	6'-1"	①	6'-1"	
w2	#4	①	3'-1"	①	3'-1"	①	6'-1"	①	7'-1"	①	8'-1"	
w3	#4	32	②	36	②	40	②	44	②	48	②	

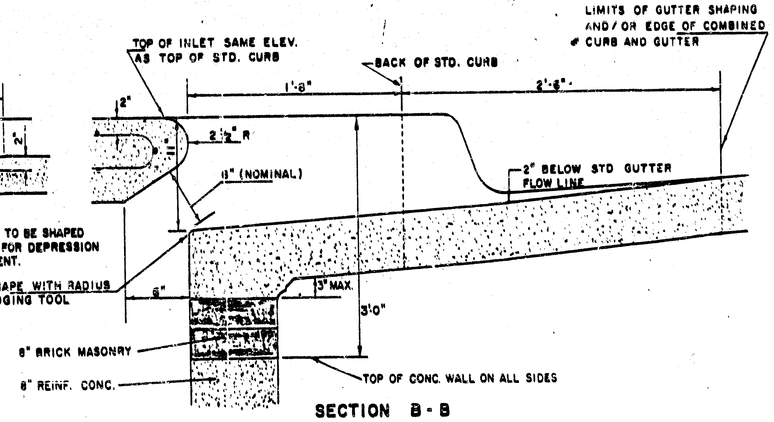
* Field bend or cut Reinforcing as required for clearance.
① 4(H1-12") ; (H1-12") Round down to nearest 0.5'
② H1-3"

STANDARD CURB INLET PRECAST TOPS			
W	PRECAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4' 4"	3'6" x 6'4" x 7 1/2"	21" & SMALLER	0.36 ±
5' 4"	4'6" x 6'4" x 7 1/2"	24" & 30"	0.51 ±
6' 4"	5'6" x 6'4" x 7 1/2"	36" & 42"	0.64 ±
7' 4"	6'6" x 6'4" x 7 1/2"	48" & 54"	0.77 ±
8' 4"	7'6" x 6'4" x 7 1/2"	60" & 66"	0.90 ±

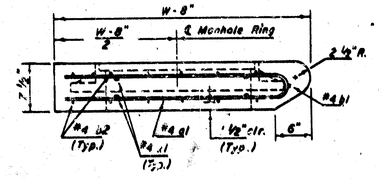
** NOTE: Slope of Inlet Tops to match Sidewalk or Parking Slopes within Limits indicated.



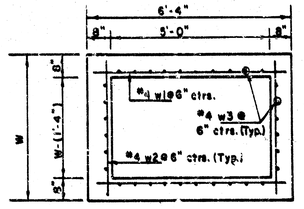
SECTION E-E



SECTION B-B



SECTION C-C



SECTION D-D

~~REVISED 1-20-1988~~
~~REVISED 2-21-1984~~
Revised 2-16-1989

DETAIL STANDARD TYPE IA CURB INLET

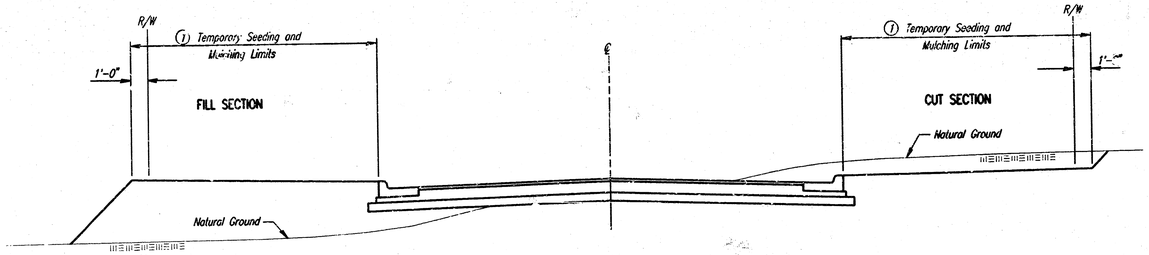
CITY OF WICHITA, KANSAS

INLET OPENING = 6" × 5'0"

JUNE 1984

Proj. No. 472 76 245 82885 000 000 001

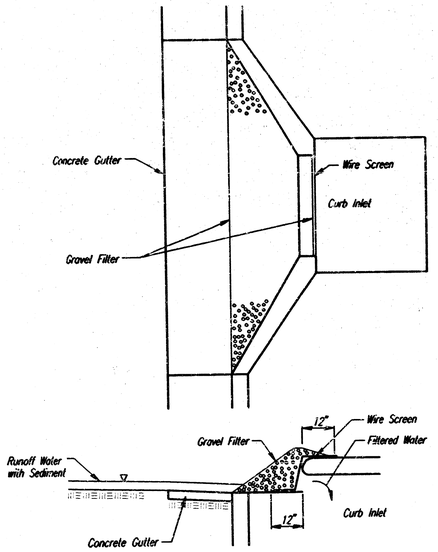
PROJECT NO.	SHEET NO.	TOTAL SHEETS
472-76-245-82885-000-000-001	8	12



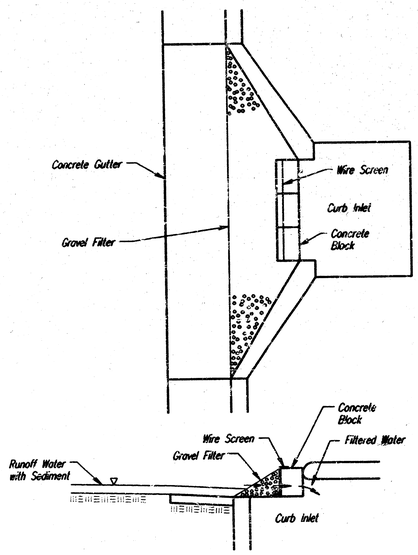
(1) Seed with Annual Rye at the rate of 4 lbs./1000 S.F.
Mulch with Hay at the rate of 90 lbs./1000 S.F.

SEDIMENT CONTROL
CURB AND GUTTER STREET SECTION

THE ITEM "TEMPORARY SEEDING AND MULCHING" SHALL BE MEASURED AND PAID FOR AT THE CONTRACT PRICE BID PER ACRE OR PER LUMP SUM, AS INDICATED IN THE PROPOSAL.



CURB INLET PROTECTION
GRAVEL AND WIRE MESH FILTER



CURB INLET PROTECTION
BLOCK AND GRAVEL FILTER

GENERAL NOTES
INLET PROTECTION

1. INLET PROTECTION METHOD MAY BE ANY OF THE APPLICABLE TYPES SHOWN, AT THE CONTRACTORS OPTION.
2. GRAVEL FILTER SHALL BE A DURABLE, WELL-GRADED SAND-GRAVEL OR CRUSHED STONE, MAXIMUM 1-1/2 IN. SIZE. AS AN ALTERNATE GRAVEL FILLED BAGS OF BURLAP OR OTHER FABRIC MAY BE USED. WHERE BAGS ARE USED, THE WIRE SCREEN, WHERE SHOWN, MAY BE OMITTED.
3. FILTER FABRIC, WHERE USED, SHALL BE RESISTANT TO ULTRAVIOLET LIGHT. MATERIALS MAY BE SUPPLIED BY THE FOLLOWING MANUFACTURERS:

MIRAFI, INC.	-	100X
HOECHST FIBERS INDUSTRIES	-	TREVIRA 1115
EXXON	-	TYPAR 3301 W

   MATERIALS SUPPLIED BY THE ABOVE NAMED MANUFACTURERS SHALL BE ACCEPTED UPON VISUAL INSPECTION BY THE ENGINEER. OTHER COMPARABLE MATERIALS MAY BE USED IF APPROVED BY THE ENGINEER.
4. INLET PROTECTION SHALL BE ERECTED AS SOON AS THE STRUCTURE HAS BEEN BACKFILLED. MEASURES SHALL BE TAKEN TO PRECLUDE ENTRY OF SEDIMENT INTO THE STORM WATER SEWER SYSTEM DURING CONSTRUCTION OF THE STRUCTURE.
5. REMOVAL AND DISPOSAL OF ACCUMULATED SILT AND DEBRIS AND/OR REMOVAL AND RECONSTRUCTION OF INLET PROTECTION INSTALLATIONS SHALL BE PERFORMED THROUGHOUT THE PROJECT LIFE WHENEVER DEBRIS REACHES ONE-THIRD THE BARRIER HEIGHT, OR AS DEEMED NECESSARY BY THE ENGINEER. ULTIMATE REMOVAL AND DISPOSAL OF INLET PROTECTION AND DEBRIS WILL BE PERFORMED BY THE DEVELOPER.
6. MEASUREMENT AND PAYMENT: THE ITEM "INLET PROTECTION" SHALL BE MEASURED AND PAID FOR AT THE CONTRACT UNIT PRICE BID PER EACH FOR EACH INLET LOCATION PROTECTED REGARDLESS OF METHOD SELECTED BY THE CONTRACTOR. SAID PRICE SHALL BE CONSIDERED FULL COMPENSATION FOR EXCAVATION, COMPACTION, BACKFILL, SEDIMENT, AND DEBRIS REMOVAL AND DISPOSAL, AND ALL LABOR, MATERIALS, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK. RECONSTRUCTION OF INLET PROTECTION INSTALLATION DUE TO DAMAGE BY WIND, FLOOD, FIRE, ETC. OR DUE TO ACTIONS BY THE CONTRACTOR OR OTHERS SHALL BE PERFORMED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST.

REVISED 1/95

NORTHRIDGE LAKES
PHASE III

INLET PROTECTION DETAILS

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by	BER, GDD	Checked by	
Drawn by	BJS	Date JAN. 1998	Job No. 97815

8

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date plotted: January 27, 1998
deliver to: dwane dunn

PROJECT NO.	SHEET NO.	TOTAL SHEETS
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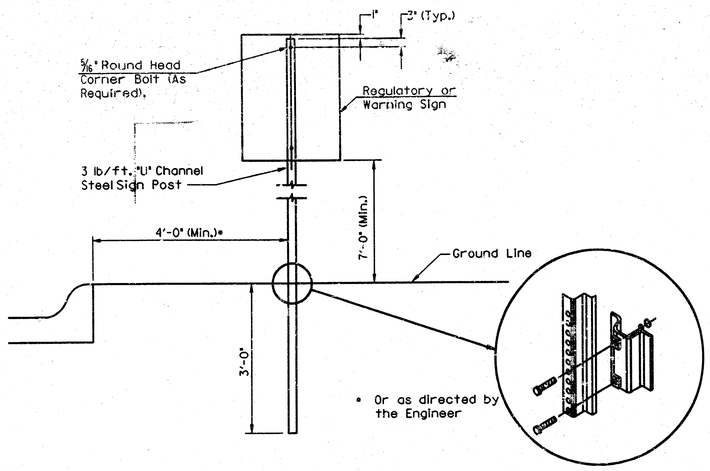
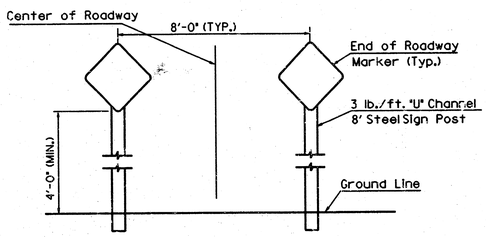
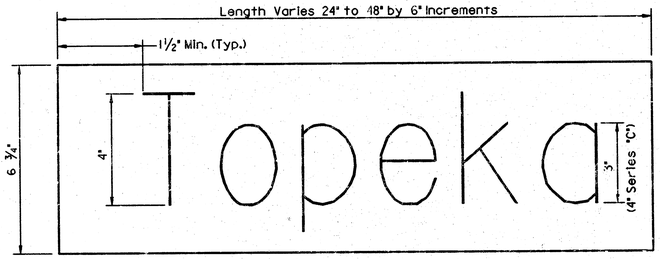


TYPICAL TRAFFIC CONTROL SIGN MOUNTING INSTALLATION
CURB AND GUTTER SECTION

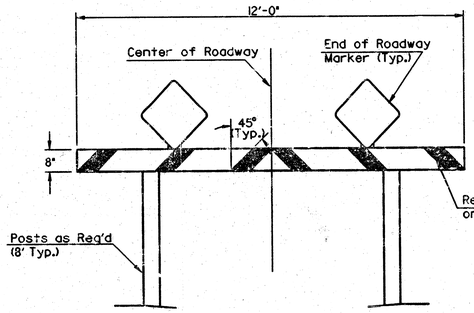




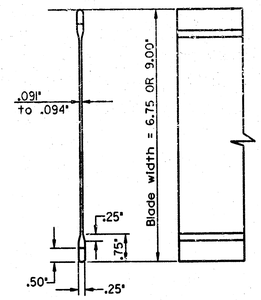
TYPICAL END OF ROADWAY SIGN MOUNTING INSTALLATION



DETAIL A
6 ¾" STANDARD



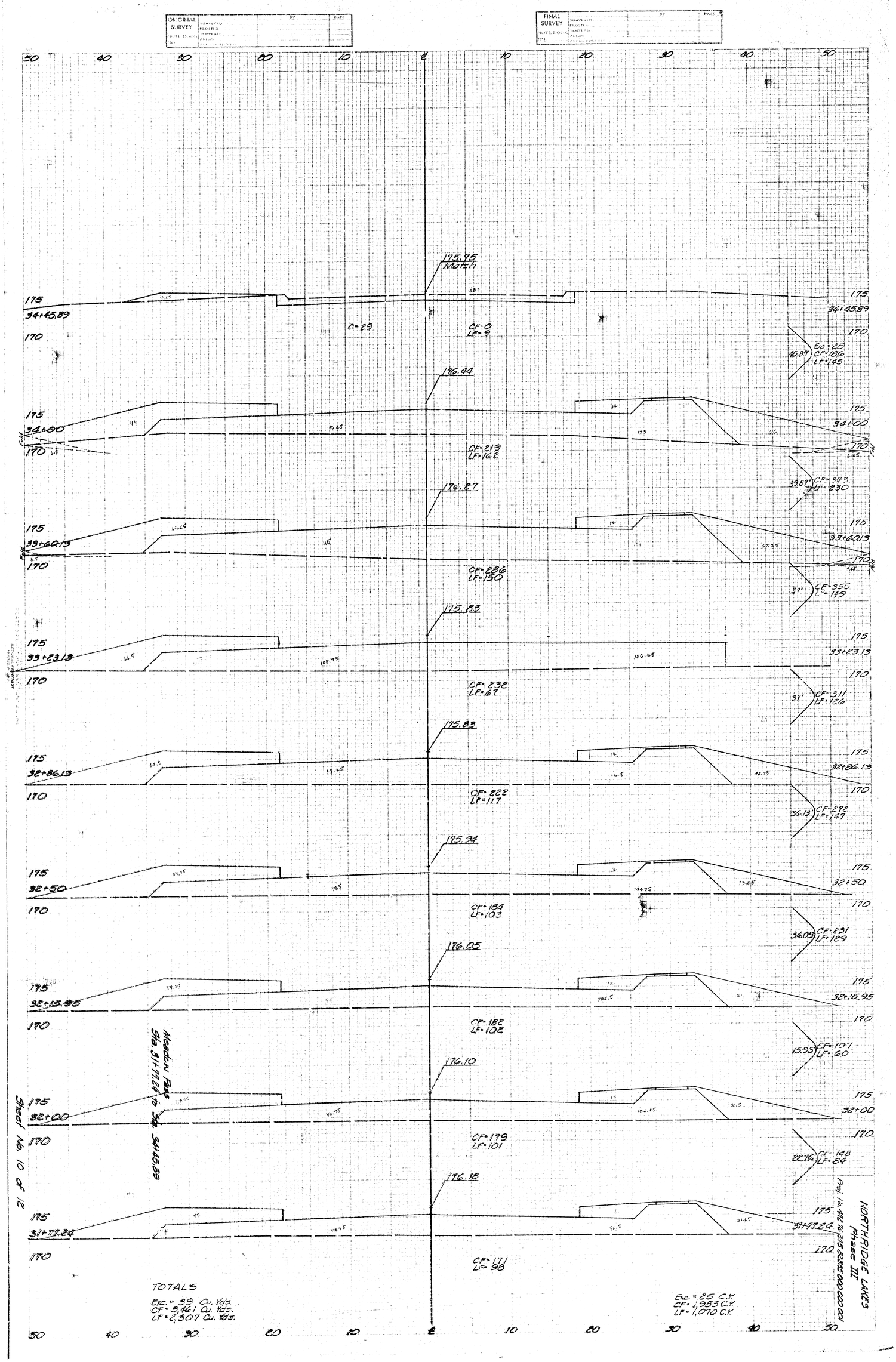
TYPE I BARRICADE DETAIL W/ E.O.R. MARKER

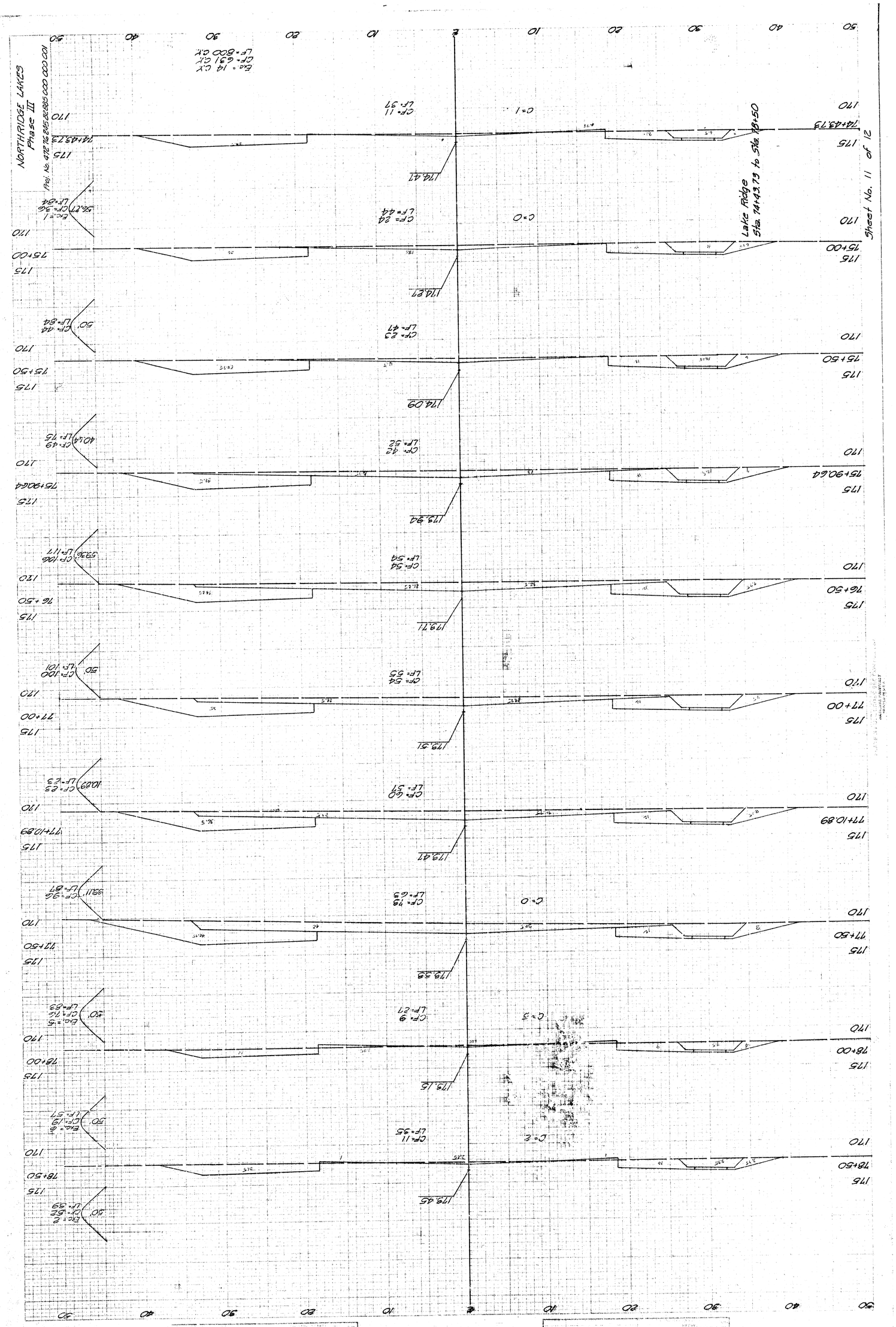


STREET NAME SIGN
BLADE DETAILS

SIGN ASSEMBLY TABLE

STREET	STATION	OFFSET	SIGN	QUANTITY #
MEADOW PASS	31+75	4' Lt. & 4' Rt.	EOR	2
MEADOW PASS	32+90	22' Rt.	STREET NAME SIGN	1


ORIGINAL SURVEY
FINAL SURVEY
175.75 Match
34+45.89
CF=0
LF=9
Exc=25
CF=186
LF=145
176.44
34+00
CF=219
LF=162
CF=373
LF=230
176.27
33+60.13
CF=286
LF=150
CF=355
LF=149
175.83
33+23.13
CF=232
LF=67
CF=311
LF=126
175.83
32+86.13
CF=222
LF=117
CF=272
LF=147
175.94
32+50
CF=184
LF=103
CF=231
LF=129
176.05
32+15.95
CF=182
LF=102
CF=107
LF=60
176.10
32+00
CF=179
LF=101
CF=148
LF=84
176.18
31+77.24
CF=171
LF=98
Meadow Pass
Sta. 31+77.24 to Sta. 34+45.89
Sheet No. 10 of 12
TOTALS
Exc.=39 Cu. Yds.
CF=3,461 Cu. Yds.
LF=2,307 Cu. Yds.
Exc.=25 C.Y.
CF=1,983 C.Y.
LF=1,070 C.Y.
NORTHRIDGE LAKES
Phase III
Proj. No. 472 76 215 82885 000 000 001


NORTHRIDGE LAKES
Phase III
Proj. No. 472 76 245 82885 000 000 001
Lake Ridge
Sta. 74+43.73 to Sta. 78+50
Sheet No. 11 of 12
74+43.73
75+00
75+50
75+90.64
76+50
77+00
77+10.89
77+50
78+00
78+50
174.47
174.27
174.09
173.94
173.71
173.51
173.47
173.33
173.15
173.45

NORTHRIDGE LAKES
Phase III
Proj. No. 412.118.555 8888.000 0000

18-03-10-03

Sheet No. 12 of 12

Lake Ridge
Sta. 79+50 to Sta. 80+19.77

| | | |