FEDERAL ROAD DIVISION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	U.S. 168(3)	1958	1	35

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SHEET NO.		STD. REINF. CONC. CULV.—SLAB TOP TYPE WITHOUT FILL (10'-0" TO 20'-0" SPAN) 15° SKEW
SHEET NO.		STD. REINF. CONC. CULV.—SLAB TOP TYPE UNDER FILL 1'-0" TO 5'-0" (10'-0" TO 20'-0" SPAN) 15° SKEW
SHEET NO.		STD. REINF. CONC. CULV.—SLAB TOP TYPE WITHOUT FILL (10'-0" TO 20'-0" SPAN) 30° SKEW
SHEET NO.		STD. REINF. CONC. CULV.—SLAB TOP TYPE UNDER FILL 1'-0" TO 5'-0" (10'-0" TO 20'-0" SPAN) 30° SKEW
SHEET NO.		STD. REINF. CONC. CULV.—SLAB TOP TYPE WITHOUT FILL (10'-0" TO 20'-0" SPAN) 45° SKEW
SHEET NO.		STD. REINF. CONC. CULV.—SLAB TOP TYPE UNDER FILL 1'-0" TO 5'-0" (10'-0" TO 20'-0" SPAN) 45° SKEW
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SHEET NO.		STEEL BEAM GUARD RAIL
SHEET NO.		
SHEET NO.		
SHEET NO.		
SHEET NO.		
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SHEET NO.	21 - 35	CROSS SECTIONS

STATE OF INDIANA

STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY U.S. PROJECT NO. 168 (3)

Original Cross-section Sent to Vincennes Dist. 1-26-60

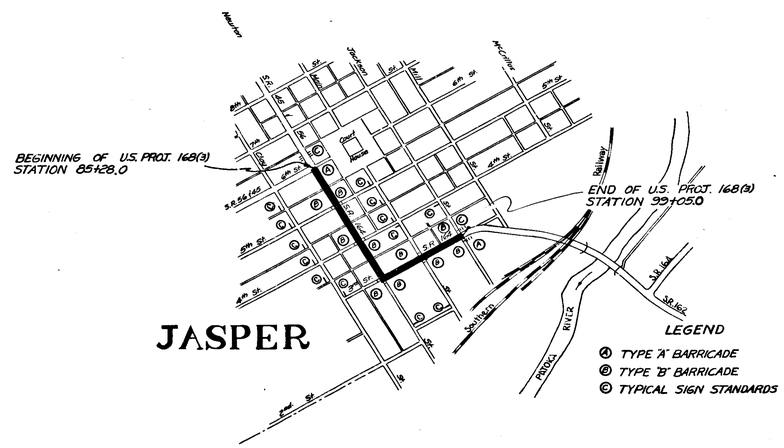
C.P. Wines

BEGINNING AT A POINT ON NEWTON ST. S.P. 164 152 FT. SOUTH OF THE CENTER OF WEST SIXTH STREET AND EXTENDING SOUTH TO WEST THIRD STREET. THEN EXTENDING EAST TO THE EAST CURB LINE OF SOUTH JACKSON STREET. ALL IN THE CITY OF JASPER, DUBOIS COUNTY.

GROSS LENGTH:- *0.2608* MI.
NET LENGTH:- *0.2608* MI.

SCALES:-
PLAN { LONG:- 1"=~~100'~~ 50' ; TRANS:- 1"=~~100'~~ 50' }
PROFILE { HORIZ:- 1"=~~100'~~ 50' ; VERT:- 1"=10' }

MAX. GRADE 1.04%



DUBOIS COUNTY
Scale 1"=400'

DESIGN DATA

AVERAGE DAILY TRAFFIC (1958)	6300
AVERAGE DAILY TRAFFIC (1978)	9450
DESIGN HOURLY VOLUME	1250
DIRECTIONAL DISTRIBUTION PERCENT	50
TRUCK PERCENT	15
DESIGN SPEED M.P.H.	30
ACCESS CONTROL	NONE

NO ADDITIONAL RIGHT OF WAY REQUIRED FOR THIS PROJECT

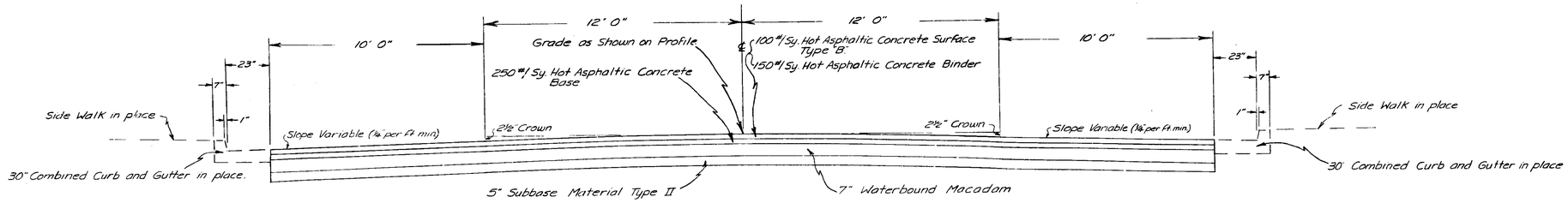
APPROVED AND ADOPTED 6/17/58
BY STATE HIGHWAY DEPARTMENT OF INDIANA.
W. Arthur
CHAIRMAN STATE HIGHWAY DEPARTMENT OF INDIANA
APPROVED 6-16-58
Carl E. Vogelgesang
CHIEF ENGINEER—STATE HIGHWAY DEPARTMENT OF INDIANA

RECOMMENDED FOR APPROVAL 6-13-58
W. H. Behrens
ENGINEER OF ROAD DESIGN, STATE HIGHWAY DEPARTMENT OF INDIANA

BUREAU OF PUBLIC ROADS
DEPARTMENT OF COMMERCE
APPROVED
DISTRICT ENGINEER DATE

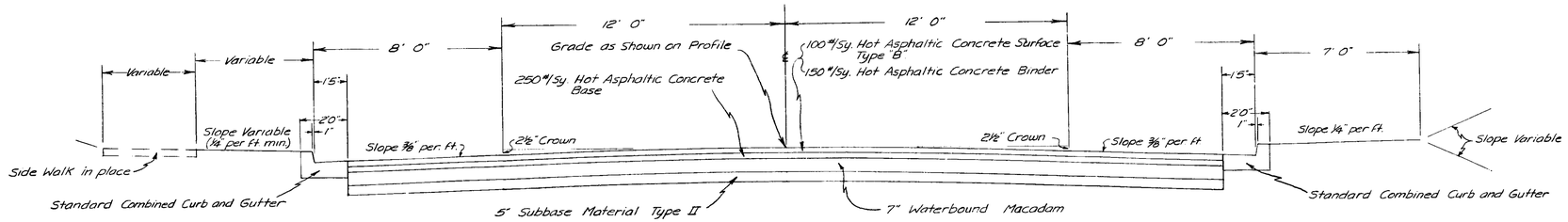
STATE HIGHWAY DEPARTMENT OF INDIANA.
STANDARD SPECIFICATIONS DATED *1957*
TO BE USED WITH THESE PLANS.

FEDERAL ROAD DIVISION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	US 46	1958	2	35



STATION 85+28 TO STATION 93+27.9

NOTE: Combined Curb and Gutter and Side Walk in place to be removed and replaced as Shown on Detail Sheet No. 6



STATION 93+27.9 TO STATION 99+05

NOTE: Side Walk in place to be removed and replaced as shown on Detail Sheet No. 6

TYPICAL CROSS SECTIONS

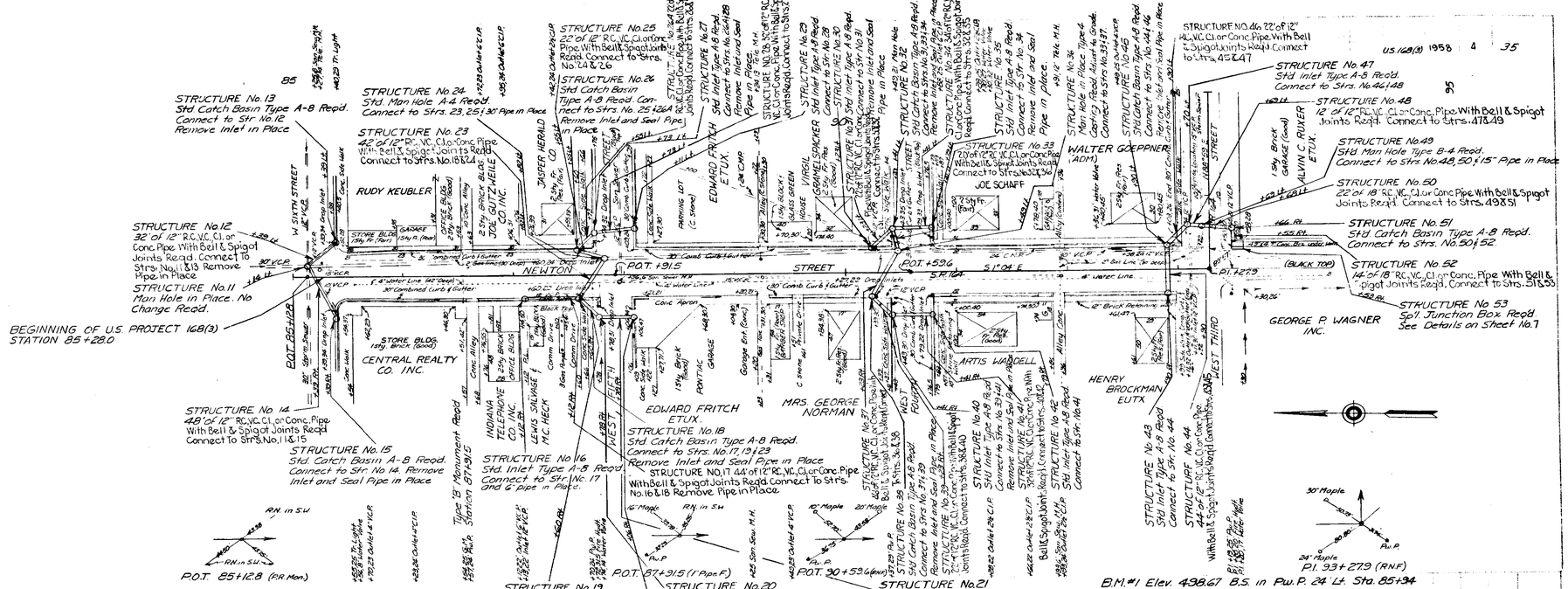
SCALE:- 1" = 2½'

APPROVED Carl E. Vogelgesang
CHIEF ENGINEER - STATE HIGHWAY DEPARTMENT OF INDIANA

RECOMMENDED FOR APPROVAL 6-13-58
W. H. Behrens
ENGINEER OF ROAD DESIGN, STATE HIGHWAY DEPARTMENT OF INDIANA

APPROVED J. A. Peters
CHAIRMAN, STATE HIGHWAY DEPARTMENT OF INDIANA

INDIANAPOLIS BLUE PRINT & LITHO. CO.



Typical Cross Sections as Shown on Sheet No 2 to be used on this project.

State Highway Department of Indiana Standard Specifications dated 1957 to be used with these plans.

Standards under dates as listed in index on Title Sheet to be used on this project.

Grade line as shown on profile represents top of finished surface

No direct payment will be made for the excavation and backfilling on this project

Street Approaches shall be constructed as shown on Miscellaneous Standard Sheet "I" and Detail Sheet No. 6

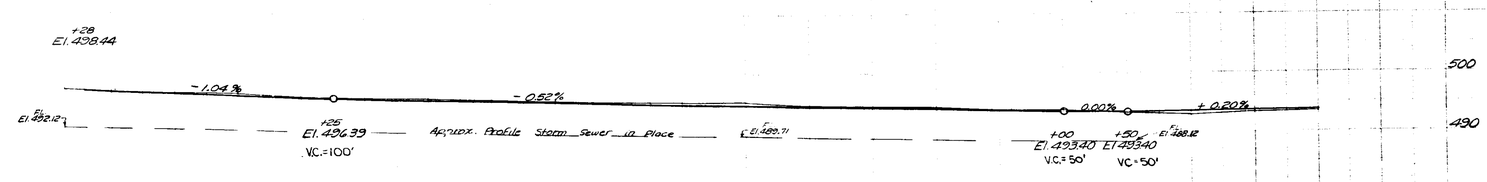
Alleys and Drives shall be Constructed as shown on Miscellaneous Standard Sheet "H" and Detail Sheet No. 6

All Corrugated Metal Pipe used in this project Shall be Bituminous Coated

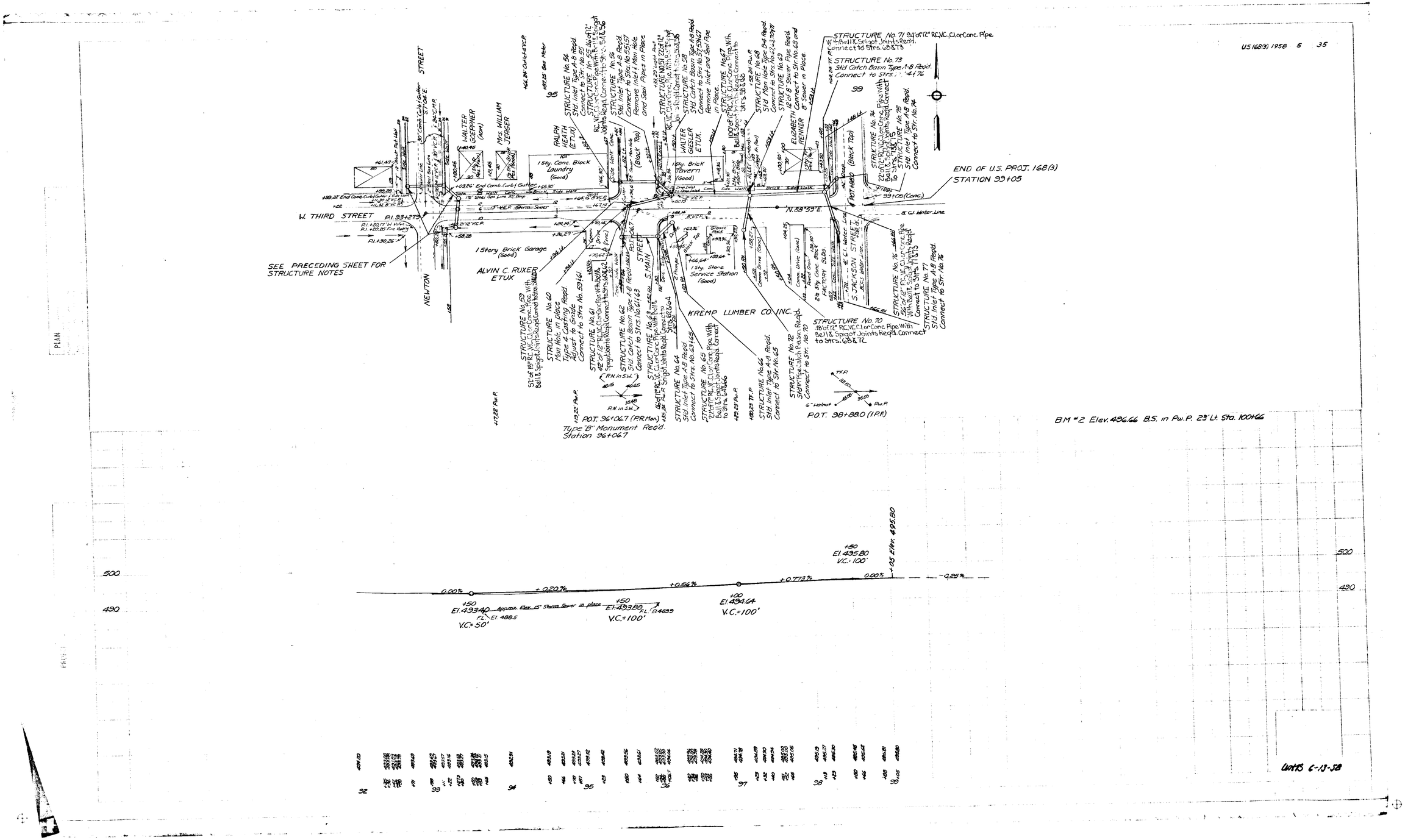
Such part of existing downspout drains that are disturbed by replacing the curb Shall be replaced and connected as directed by the engineer. Payment for this work Shall be included in the contract unit price for "Combined Curb and Gutter"

Locations of subsurface Drains are Shown on Detail Sheet No 6

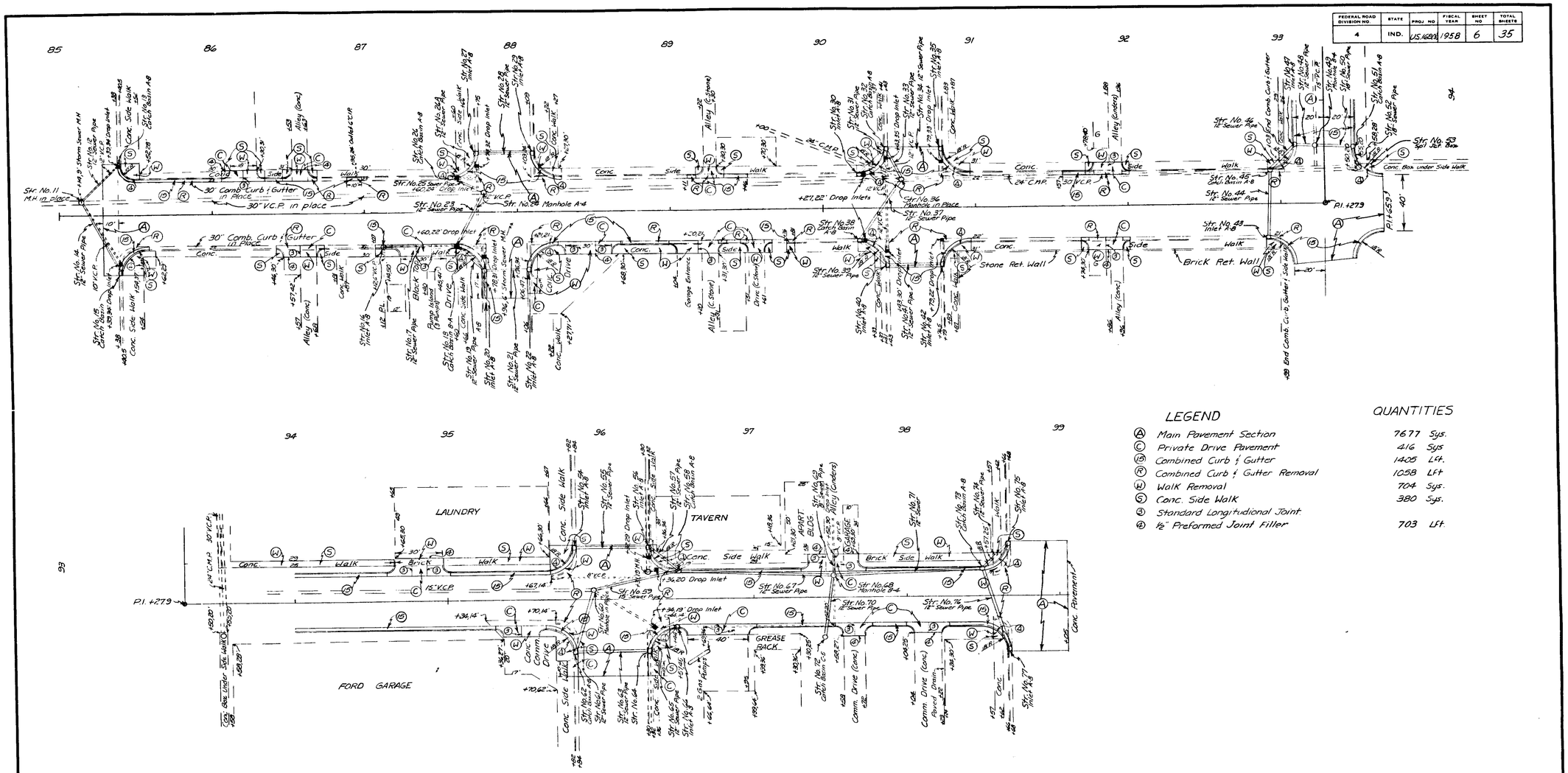
All R.C., V.C., C.I. or Conc. pipe used in this project shall be of the "Bell and Spigot" type.



UTD 6-13-58


US 168(3) 1958 5 35
PLAN
W. THIRD STREET
NEWTON STREET
SEE PRECEDING SHEET FOR STRUCTURE NOTES
ALVIN C. RUXER ETUX
KREMP LUMBER CO. INC.
S. MAIN STREET
S. JACKSON STREET
END OF U.S. PROJ. 168(3)
STATION 99+05
P.O.T. 96+06.7 (P.R.Mon.)
Type "B" Monument Req'd.
Station 96+06.7
P.O.T. 98+88.0 (I.P.F.)
B.M. #2 Elev. 496.66 B.S. in Pw.P. 23' Lt. Sta. 100+66
+50
El. 493.40
V.C.=50'
+50
El. 493.80
V.C.=100'
+00
El. 494.64
V.C.=100'
+50
El. 495.80
V.C.=100'
+05 Elev. 495.80
0.00%
+0.20%
+0.56%
+0.773%
0.00%
-0.25%
500
490
Watts 6-13-58

FEDERAL ROAD DIVISION NO.	STATE	PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	IND.	US.16820	1958	6	35



LEGEND

		QUANTITIES	
Ⓐ	Main Pavement Section	7677	Sys.
Ⓒ	Private Drive Pavement	416	Sys.
Ⓑ	Combined Curb & Gutter	1405	Lft.
Ⓡ	Combined Curb & Gutter Removal	1058	Lft
Ⓦ	Walk Removal	704	Sys.
Ⓢ	Conc. Side Walk	380	Sys.
Ⓢ	Standard Longitudional Joint		
Ⓓ	½" Preformed Joint Filler	703	Lft.

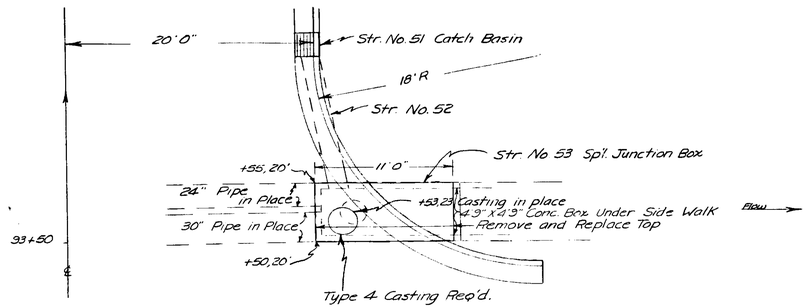
DETAILS

Scale 1" = 30'

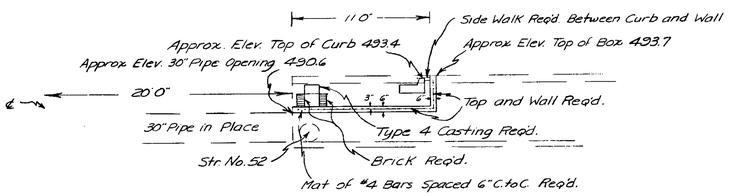
WMB C-13-56

INDIANAPOLIS BLUE PRINT & LITHO CO

FEDERAL ROAD DIVISION NO	STATE	PROJ. NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	IND.	US 16 RD	1958	7	35



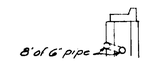
PLAN VIEW STR. 53



SIDE VIEW STR. 53

SP'L JUNCTION BOX
STR. No. 53

Scale: 1" = 5'



Subsurface Drain Connection to Curb Inlet Structures.

TABLE OF STRUCTURES REQUIRING CONNECTIONS

STR No.	STATION	SIDE
16	87+12	Rt.
26	87+55	Lt.
30	90+23	Lt.
38	90+23	Rt.
43	92+90	Rt.
45	92+90	Lt.
47	92+63	Lt.
51	92+66	Rt.
58	96+50	Lt.
66	96+50	Rt.

APPROACHES

LOCATION	DESCRIPTION	LENGTH	WIDTH	RADII	MAIN PVMT. AREA, SYS.	PRIVATE DRIVE PVMT., SYS.
85+28	S.R. 45-56	20	48	10 Lt., 18 Rt.	130	
86+20 Lt.	III	8.0	18	5		20
86+57 Rt.	III	8.0	22	5		24
86+58 Lt.	I	8.0	10	5		13
87+38 Rt.	III	8.0	30	5		31
87+92 Lt.	W. 5th Street	19.5	38	18	94	
87+92 Rt.	W. 5th Street	36.5	32	18	136	
88+06 Rt.	I	6.5	10	10 & 5		10
88+48 Rt.	III	8.0	30	5		31
89+18 Rt.	III	8.0	27	5		28
89+26 Lt.	I	8.0	10	5		13
89+56 Rt.	I	9.0	10	5		14
90+60 Lt.	W. 4th Street	19.5	38	18	94	
90+60 Rt.	W. 4th Street	19.5	38	18	94	
91+85 Rt.	III	8.0	22	5		24
91+87 Lt.	III	8.0	18	5		20
93+28 Rt.	W. 3rd Street	19.5	40	18	98	
93+28 Rt.	Newton Street	19.5	40	18	98	
94+80 Lt.	III	8.0	30	5		31
95+47 Rt.	III	8.0	22	5		24
96+07 Lt.	S. Main Street	19.5	50	18	120	
96+07 Rt.	S. Main Street	34.5	50	18	198	
96+80 Rt.	III	8.0	10	10 & 5		11
96+32 Rt.	III	6.5	10	5		12
96+75 Rt.	III	8.0	40	5		40
97+52 Lt.	III	8.0	32	5		33
97+65 Rt.	III	8.0	14	5		17
98+13 Rt.	III	8.0	18	5		20
98+48	S. Jackson Street	76.0	37	18	331	

DETAILS

WMB 6-13-58

STRUCTURE DATA

FEDERAL ROAD DIVISION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	U.S. 168 (3)	19	8	35

STRUCTURE NUMBER	LOCATION	DESCRIPTION SIZE	DESCRIPTION	SKEW	LENGTH "L"	HEIGHT "H"	WINGS "W"	FLOW LINE UP STREAM ELEV.	FLOW LINE DOWN STREAM ELEV.	CONCRETE CLASS "D" CU.YDS.	SPECIAL BORROW GRADE "B" CU.YDS.	REINFORCING STEEL LBS.	REMARKS	PLANS ON SHEET NO.
11	85+14 Lt.		Manhole in Place										No Change Required	
12	85+39 Lt.	12"	RC, VC, Cl or Conc		32'			493.9	493.0		11		Connect to Strs. No. 11 & 13. Remove pipe in place.	
13	85+39 Lt.		Std Catch Basin, Type A-B										Connect to Str. No. 12. Remove Inlet in place.	
14	85+39 Rt.	12"	RC, VC, Cl or Conc.		48'			493.5	493.0		17		Connect to Str. No. 11 & 15	
15	85+39 Rt.		Std Catch Basin, Type A-B										Connect to Str. No. 14. Remove Inlet and Seal Pipe in place.	
16	87+12 Rt.		Std. Inlet, Type A-B										Connect to Strs. No. 16 & 18.	
17	87+12 Rt.	12"	RC, VC, Cl or Conc.		44'			492.5	492.2		16		Connect to Strs. No. 17 & 23. Remove Inlet and Seal Pipe in place.	
18	87+60 Rt.		Std Catch Basin, Type A-B										Connect to Strs. No. 18 & 20.	
19	87+60 Rt.	12"	RC, VC, Cl or Conc.		22'			492.0	491.7				Connect to Strs. No. 19 & 21. Remove Inlet and Seal Pipe in place.	
20	87+78 Rt.		Std Inlet, Type A-B										Connect to Strs. No. 20 & 22.	
21	87+78 Rt.	12"	RC, VC, Cl or Conc.		28'			492.4	492.2		10		Connect to Str. No. 21.	
22	88+06 Rt.		Std. Inlet, Type A-B										Connect to Strs. No. 18 & 24.	
23	87+82 Lt.	12"	RC, VC, Cl or Conc.		42'			491.4	491.2		15		Connect to Strs. No. 23 & 25 & 30" pipe in place.	
24	87+82 Lt.		Std Manhole, Type A-4										Connect to Strs. No. 24 & 26	
25	87+55 Lt.	12"	RC, VC, Cl or Conc.		22'			491.4	491.2		8		Connect to Strs. No. 25 & 26-A. Remove Inlet and Seal Pipe in place.	
26	87+55 Lt.		Std Catch Basin, Type A-B										Connect to Strs. No. 26 & 27.	
26-A	87+55 Lt.	12"	RC, VC, Cl or Conc.		22'			491.8	491.6				Connect to Strs. No. 26-A & 28. Remove Inlet and Seal Pipe in place.	
27	87+73 Lt.		Std Inlet, Type A-B										Connect to Strs. No. 27 & 29.	
28	87+73 Lt.	12"	RC, VC, Cl or Conc.		32'			492.2	492.0		11		Connect to Str. No. 28.	
29	88+11 Lt.		Std. Inlet, Type A-B.										Connect to Str. No. 31. Remove Inlet and Seal Pipe in place.	
30	90+23 Lt.		Std Inlet, Type A-B										Connect to Strs. No. 30 & 32	
31	90+23 Lt.	12"	RC, VC, Cl or Conc		22'			492.4	492.2				Connect to Strs. No. 31, 33 & 34.	
32	90+41 Lt.		Std Catch Basin, Type A-B										Connect to Strs. No. 32 & 36.	
33	90+41 Lt.	12"	RC, VC, Cl or Conc.		20'			489.9	489.8		7		Connect to Strs. No. 32 & 35.	
34	90+41 Lt.	12"	RC, VC, Cl or Conc.		34'			492.4	492.2		12		Connect to Str. No. 34. Remove Inlet and Seal Pipe in place.	
35	90+79 Lt.		Std. Inlet, Type A-B										Type 4 Casting reqd. Adjust to grade. Connect to Strs.	
36	90+89 Lt.		Manhole in Place										No. 33 & 37.	
37	90+23 Rt.	12"	RC, VC, Cl or Conc.		46'			492.0	489.8		16		Connect to Strs. No. 36 & 38.	
38	90+23 Rt.		Std Catch Basin, Type A-B.										Connect to Strs. No. 37 & 39. Remove Inlet and Seal Pipe in place.	
39	90+23 Rt.	12"	RC, VC, Cl or Conc.		22'			492.8	492.3				Connect to Strs. No. 38 & 40.	
40	90+41 Rt.		Std Inlet, Type A-B.										Connect to Strs. No. 39 & 41. Remove Inlet and Seal Pipe in place.	
41	90+41 Rt.	12"	RC, VC, Cl or Conc.		32'			491.2	491.0		11		Connect to Strs. No. 40 & 42.	
42	90+79 Rt.		Std Inlet, Type A-B.										Connect to Str. No. 41.	
43	93+90 Rt.		Std. Inlet, Type A-B.										Connect to Str. No. 44.	
44	93+90 Rt.	12"	RC, VC, Cl or Conc.		44'			489.3	489.1		16		Connect to Strs. No. 43 & 45.	
45	93+90 Lt.		Std Catch Basin, Type A-B										Connect to Strs. No. 44 & 46. Remove Inlet and Seal Pipe in place.	
46	93+90 Lt.	12"	RC, VC, Cl or Conc.		22'			488.9	488.8				Connect to Strs. No. 45 & 47.	
47	94+70 Lt.		Std Inlet, Type A-B.										Connect to Strs. No. 46 & 48.	
48	94+69 Lt.	12"	RC, VC, Cl or Conc.		12'			488.7	488.6		4		Connect to Strs. No. 47 & 49.	
49	94+69 Lt.		Std Manhole, Type A-4.										Connect to Strs. No. 48 & 50 and 15" pipe in place.	
50	94+68	18"	RC, VC, Cl or Conc.		22'			488.6	488.5		10		Connect to Strs. No. 49 & 51.	
51	94+66 Rt.		Std Catch Basin, Type A-B.										Connect to Strs. No. 50 & 52.	
52	94+55 Rt.	18"	RC, VC, Cl or Conc.		14'			488.3	488.2		7		Connect to Strs. No. 51 & 53.	
53	94+53 Rt.		Special Junction Box.										See Details on Sheet No.	
54	95+82 Lt.		Std Inlet, Type A-B										Connect to Str. No. 55.	
55	95+82 Lt.	12"	RC, VC, Cl or Conc.		46'			490.4	490.3		16		Connect to Strs. No. 54 & 56.	
56	96+32 Lt.		Std Inlet, Type A-B.										Connect to Strs. No. 55 & 57. Remove Inlet and Manhole and Seal Pipe in place.	
57	96+32 Lt.	12"	RC, VC, Cl or Conc.		22'			490.2	490.1				Connect to Strs. No. 56 & 58.	
58	96+50 Lt.		Std. Catch Basin, Type A-B										Connect to Strs. No. 57, 59 & 67.	
59	95+94 Lt.	15"	RC, VC, Cl or Conc.		52'			490.0	489.9		21		Connect to Strs. No. 58 & 60.	
60	95+94 Lt.		Manhole in Place										Type 4 Casting reqd. Adjust to grade. Connect to Strs. Nos.	
61	95+82 Rt.	12"	RC, VC, Cl or Conc.		42'			490.0	489.9		15		59 & 61.	
62	95+82 Rt.		Std. Catch Basin, Type A-B.										Connect to Strs. No. 60 & 62.	
63	96+32 Rt.	12"	RC, VC, Cl or Conc.		46'			490.2	490.1		16		Connect to Strs. No. 61 & 63.	
64	96+32 Rt.		Std. Inlet, Type A-B.										Connect to Strs. No. 62 & 64.	
65	96+50 Rt.	12"	RC, VC, Cl or Conc.		22'			490.4	490.3				Connect to Strs. No. 63 & 65.	
66	96+50 Rt.		Std. Inlet, Type A-B.										Connect to Strs. No. 64 & 66.	
67	96+50 Lt.	12"	RC, VC, Cl or Conc.		100'			490.3	490.1		36		Connect to Str. No. 65.	
68	97+53 Lt.		Std. Manhole, Type A-4.										Connect to Strs. No. 58 & 68.	
69	97+53 Lt.	8"	Sewer Pipe		12'			491.0	490.0		3		Connect to Strs. No. 67, 69, 70 & 71.	
70	97+50 Rt.	12"	RC, VC, Cl or Conc.		48'			492.5	491.5		14		Connect to Strs. No. 68 & 8" pipe in place.	
71	97+53 Lt.	12"	RC, VC, Cl or Conc.		94'			490.8	490.6		33		Connect to Strs. No. 68 & 73.	
72	97+20 Rt.		18" Std Catch Basin										Connect to Str. No. 70.	
73	98+48 Lt.		Std. Catch Basin, Type A-B.										Connect to Strs. No. 71, 74 & 76.	
74	98+48 Lt.	12"	RC, VC, Cl or Conc.		22'			491.0	490.9				Connect to Strs. No. 73 & 75.	
75	98+66 Lt.		Std. Inlet, Type A-B.										Connect to Str. No. 74.	
76	98+66 Rt.	12"	RC, VC, Cl or Conc		56'			491.0	490.9		14		Connect to Strs. No. 73 & 77.	
77	98+66 Rt.		Std. Inlet, Type A-B										Connect to Str. No. 76.	

STRUCTURE NUMBER	LOCATION	DESCRIPTION SIZE	DESCRIPTION	SKEW	LENGTH "L"	HEIGHT "H"	WINGS "W"	FLOW LINE UP STREAM ELEV.	FLOW LINE DOWN STREAM ELEV.	CONCRETE CLASS "D" CU.YDS	SPECIAL BORROW GRADE "B" CU.YDS.	REINFORCING STEEL LBS.	REMARKS	PLANS ON SHEET NO.

MAY 1957

PROJ.	LINE	SHEET	FILE

FEDERAL ROAD DIVISION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	U.S. 168(3)	1958	9	35

ESTIMATE OF QUANTITIES

GRADING

ITEM	UNIT	QUANTITY
COMMON EXCAVATION	CYS.	
SOLID ROCK EXCAVATION	CYS.	
UNCLASSIFIED EXCAVATION	CYS.	
SPECIAL BORROW	CYS.	
OVERHAUL	CYS.	
ADDED HAUL	UNITS	
PEAT EXCAVATION	CYS.	
SURCHARGE - 4'	LFT.	
SURCHARGE - 4'-8'	LFT.	
SURCHARGE - 8'-12'	LFT.	
SURCHARGE - 12'-16'	LFT.	
SURCHARGE - 16'-20'	LFT.	
SURCHARGE - 20'-24'	LFT.	
MACHINE OPERATION	HRS.	
MACHINE AVAILABILITY	HRS.	
DYNAMITE	LBS.	
2" CASED TEST HOLES	LFT.	
4" CASED TEST HOLES	LFT.	
6" CASED TEST HOLES	LFT.	
2" CASED DYNAMITE HOLES	LFT.	
4" CASED DYNAMITE HOLES	LFT.	
6" CASED DYNAMITE HOLES	LFT.	
GRADE "B" SPECIAL BORROW	CYS.	339
PAVEMENT REMOVAL	SYS.	
SALVAGED PAVEMENT	SYS.	
SURFACE REMOVAL	SYS.	
BREAKING PAVEMENT	SYS.	
CURB REMOVAL	LFT.	
CENTER CURB REMOVAL	LFT.	
COMB CURB & GUTTER REMOVAL	LFT.	1058
LIP GUTTER REMOVAL	LFT.	
GUTTER REMOVAL	LFT.	
WALK REMOVAL	SYS.	704
STEPS REMOVAL	SYS.	
GUARD RAIL SALVAGE	LFT.	
RETAINING WALL REMOVAL	LFT.	
RETAINING WALL REMOVAL	CYS.	
PAVED SIDE DITCH REMOVAL	LFT.	
SALVAGED ROAD MATERIAL	CYS.	

PAVEMENT

ITEM	UNIT	QUANTITY
SUBBASE TYPE "II"	CYS.	1089
SALVAGED ROAD MATERIAL FOR SUBBASE	CYS.	
H.E.S. PLAIN CONCRETE	SYS.	
REINFORCED CONCRETE	SYS.	
PLAIN CONCRETE	SYS.	
H.E.S. REINFORCED CONCRETE	SYS.	
PLAIN CEMENT CONCRETE FOR CROSSOVERS	SYS.	
BITUMINOUS MIXTURE FOR CROSSOVERS	TONS	
COVERING AGGREGATE	TONS	
SUBGRADE FINE AGGREGATE	TONS	
COMPACTED AGGREGATE	TONS	
PRIVATE DRIVE PAVEMENT	SYS.	416
COMMERCIAL DRIVE PAVEMENT	SYS.	
REINFORCING STEEL	LBS.	
CONTRACTION JOINTS, TYPE	LFT.	
1½" PREFORMED JOINT FILLER	LFT.	103
1" PREFORMED EXPANSION JOINT WITH LOAD TRANSFER	LFT.	
3" EXPANSION JOINT	LFT.	
CONCRETE BASE	SYS.	
H.E.S. CONCRETE BASE	SYS.	
CONCRETE PATCHES	SYS.	
CONCRETE PATCHES CLASS I	SYS.	
CONCRETE PATCHES CLASS II	SYS.	
CONCRETE PATCHES CLASS III	SYS.	
CONCRETE PATCHES CLASS IV	SYS.	
CONCRETE WIDENING	SYS.	
FILLING CRACKS AND JOINTS	TONS	
BITUMINOUS MATERIAL FOR UNDERSEAL	TONS	
DRILLING HOLES	EACH	
AGGREGATE FOR COMPACTED AGGREGATE BASE	TONS	50
WATER FOR COMPACTED AGGREGATE BASE	M.GALS.	
AGGREGATE FOR SHOULDER DRAINS	TONS	
BITUMINOUS MATERIAL FOR PRIME	TONS	11
BITUMINOUS MATERIAL FOR SEAL	TONS	
COVERING AGGREGATE	TONS	
HOT ASPHALTIC CONCRETE BASE	TONS	960
HOT ASPHALTIC CONCRETE BINDER (I)	TONS	576
HOT ASPHALTIC CONCRETE SURFACE TYPE "B"	TONS	384
BITUMINOUS COATED BLENDED AGGREGATE BINDER (I)	TONS	
BITUMINOUS COATED BLENDED AGGREGATE SURFACE	TONS	
BITUMINOUS COATED AGGREGATE BINDER (I)	TONS	
BITUMINOUS COATED AGGREGATE SURFACE	TONS	

ITEM	UNIT	QUANTITY
BITUM. MIXTURE FOR APPROACHES	TONS	
SALVAGED ROAD MATERIAL FOR APPROACHES	CYS.	
BITUMINOUS SHOULDER	TONS	
BITUMINOUS MATERIAL FOR SEAL	TONS	
COVERING AGGREGATE	TONS	19
COARSE AGGREGATE FOR WATER BOUND MACADAM	TONS	2236
SCREENINGS FOR WATER BOUND MACADAM	TONS	668

MISCELLANEOUS

ITEM	UNIT	QUANTITY
6" HAND LAID RIP RAP	SYS.	
12" HAND LAID RIP RAP	SYS.	
GROUTED RIP RAP	SYS.	
PLACING GROUTED RIP RAP	SYS.	
PLACING 6" HAND LAID RIP RAP	SYS.	
PLACING 12" HAND LAID RIP RAP	SYS.	
PRECAST CONCRETE RIP RAP	SYS.	
STANDARD LIP GUTTER	LFT.	
PAVED SIDE DITCH, TYPE " "	LFT.	
PAVED SIDE DITCH, TYPE " "	LFT.	
PAVED SIDE DITCH, TYPE " "	LFT.	
INTEGRAL CONCRETE CURB	LFT.	
INTEGRAL CONCRETE CURB TYPE "B"	LFT.	
BITUMINOUS CURB	LFT.	
CONCRETE CURB	LFT.	
CONCRETE CURB TYPE "B"	LFT.	
CONCRETE GUTTER	LFT.	
COMB. CONC. CURB AND GUTTER	LFT.	1405
RECONSTRUCTED CONC. CURB	LFT.	
RECONSTRUCTED CONC. GUTTER	LFT.	
RECONSTRUCTED COMB. CONC. CURB AND GUTTER	LFT.	
RESET CURB	LFT.	
RESET COMB. CONC. CURB & GUTTER	LFT.	
CONCRETE CENTER CURB	LFT.	
CONCRETE CENTER CURB	SYS.	
FLEXIBLE STEEL PLATE GUARD RAIL	LFT.	
STEEL BEAM GUARD RAIL	LFT.	
SHOP CURVED STEEL BEAM GUARD RAIL	LFT.	
DOUBLE FACE STEEL BEAM GUARD RAIL	LFT.	
WIRE ROPE GUARD RAIL	LFT.	
WOVEN WIRE FABRIC GUARD RAIL	LFT.	
GUARD RAIL	LFT.	
RESETTING FLEXIBLE STEEL PLATE GUARD RAIL	LFT.	
GUARD RAIL	LFT.	
GUARD RAIL POSTS	EA.	
RESETTING STEEL BEAM GUARD RAIL	LFT.	
RESETTING WIRE ROPE GUARD RAIL	LFT.	
RESET WOVEN WIRE FABRIC G. RAIL	LFT.	
GUARD FENCE	LFT.	
GUIDE POSTS, TYPE "A"	EA.	
GUIDE POSTS, TYPE "B"	EA.	
BARRICADES, TYPE "A"	EA.	2
BARRICADES, TYPE "B"	EA.	10
TYPICAL SIGN STANDARDS	EA.	25
RAILROAD CROSSING SIGN, TYPE "A"	EA.	
RAILROAD CROSSING SIGN, TYPE "B"	EA.	
ADVANCE RAILROAD WARNING SIGN	EA.	
CONCRETE HEADER	LFT.	
RECONSTRUCTED CONCRETE HEADER	LFT.	
CEMENT CONCRETE SIDEWALK	SYS.	380
RECONSTRUCTED CONCRETE SIDEWALK	SYS.	
CROSSWALK	SYS.	
RIGHT OF WAY MARKERS	EA.	
RESET RIGHT OF WAY MARKERS	EA.	
MONUMENTS, TYPE "B"	EA.	2
MONUMENTS, TYPE " "	EA.	
CASTINGS ADJUSTED TO GRADE, MONUMENTS	EA.	
MONUMENTS, RE-ESTABLISHED	EA.	
BENCH MARK POSTS	EA.	
RESETTING BENCH MARK POSTS	EA.	
SODDING	SYS.	300
FURNISHING AND PLACING: AGRICULTURAL LIMESTONE	TONS	
FERTILIZER	TONS	
SEED	LBS.	
FURNISHING AND APPLYING MULCHING MATERIAL	TONS	
PLAIN SEEDING	SYS.	
MULCHED SEEDING	SYS.	
TOP SOIL	CYS.	
FENCE (CHAIN LINK TYPE)	LFT.	

MISCELLANEOUS

ITEM	UNIT	QUANTITY

STRUCTURES

ITEM	PIPE - LINEAL FEET 4"	6"	8"	10"	12"	15"	18"	24"
CLASS I								
CLASS II								
CLASS III								
CLASS IV								
CLASS V								
CLASS VI								
REINFORCED CONCRETE								
VITRIFIED CLAY								
CONCRETE								
CORRUGATED METAL								
BITUMINOUS COATED CORRUGATED METAL								
SEWER	50	50	62	50				
R.C., V.C., Cl. or Conc. (Bell & Spigot)					1044	52	36	
DEFORMED CORRUGATED METAL								
DRAIN TILE								

SUBSURFACE DRAINAGE

PIPE - LINEAL FEET		AGG.-CU. YDS.
6" CLASS VII	130	15

CASTINGS ADJUSTED TO GRADE

EACH

FOR STRUCTURES

ITEM	UNIT	QUANTITY
CONCRETE CLASS "D"	CYS.	
REINFORCING STEEL	LBS.	

AUTO. DRAINAGE GATES

SIZE	HEAD	EACH

CATCH BASINS

TYPE	EACH
A-8	11

PIPE CATCH BASIN

SIZE	EACH
12"	
15"	
18"	1
24"	

INLETS

TYPE	EACH
A-8	17

MANHOLES

TYPE	EACH
A-4	1
B-4	2

TYPE	Each
Spl. Junction Box	1
CATCH BASIN	
INLET	
R.C. SPRING BOX	

CASTINGS FURN. AND ADJUSTED TO GRADE

TYPE	EA.
4	2

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