1

CITY OF

ALBUQUERQUE NEW MEXICO

STORM SEWER PROJECT NO. 3

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2	PROPOSED STORM SEWERS
3	STANDARD CATCH BASINS, TYPES B&C, C-1, & APPURTENANCES.
4	STANDARD MANHOLE DESIGNS
5	TYPE A CURB INLET STANDARD MANHOLE FRAME & COVER
6	STD. METHOD OF REPAIRING PAVEMENT CURB & CATCH BASIN, ETC.
7	STORM SEWER PLAN AND PROFILE
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ENGINEERS

0 8 5 2 1 0 1 5 2 2 0

HERKENHOFF & TURNEY
CONSULTING ENGINEERS
SANTA FE ALBUQUERQUE

APRIL 1951 SHEET 1 OF 10

STORM SEWER PROJ #3

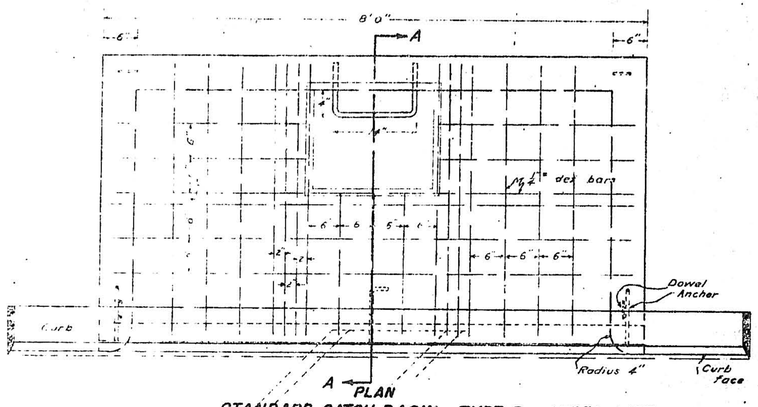
ALBUQUERQUE NEW MEXICO

STORM SEWER PROJECT NO. 3

GENERAL LAYOUT AND INDEX

HERKENHOFF & TURNEY
CONSULTING ENGINEERS
SANTA FE, NEW MEXICO

SCALE	DATE	DRAWN	SHEET 2
	FEB. 1951	CHECKED GH	OF 10

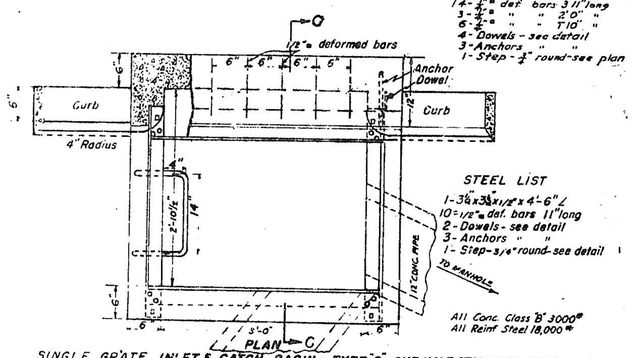


STANDARD CATCH BASIN – TYPE B.

SCALE: 1 INCH = 1 FOOT

STEEL LIST

1 - 3½ x 3½ x ½ x 8'0" L
14 - ½" ø def. bars 3'11" long
3 - ½" ø " " 2'0" "
6 - ½" ø " " 1'10" "
4 - Dowels - see detail
3 - Anchors " "
1 - Strap - ¾" round - see plan



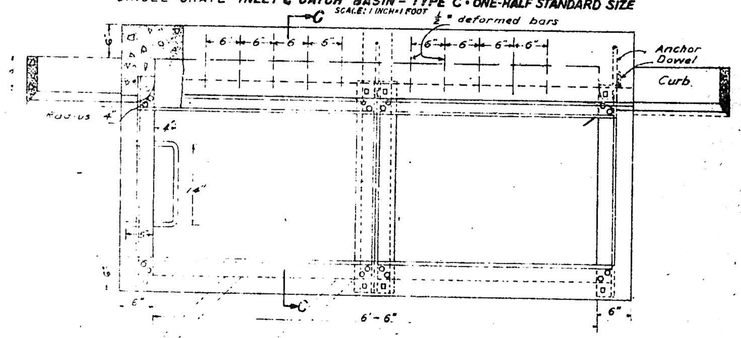
STEEL LIST

1 - 3½ x 3½ x ½ x 4'-6" L
10 - ½" ø def. bars 11" long
2 - Dowels - see detail
3 - Anchors " "
1 - Strap - ¾" round - see detail

All Conc. Class "B" 3000#
All Reinf. Steel 18,000#

SINGLE GRATE INLET & CATCH BASIN – TYPE C - ONE-HALF STANDARD SIZE

SCALE: 1 INCH = 1 FOOT

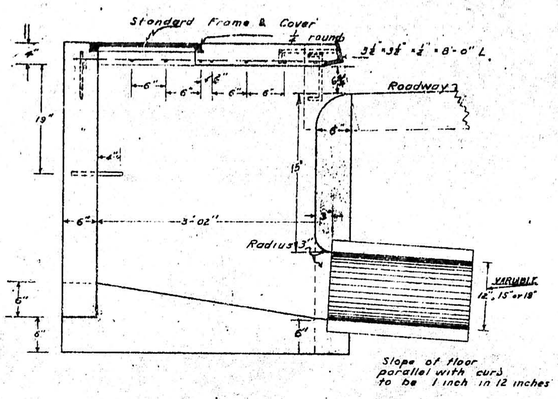


DOUBLE GRATE STANDARD CATCH BASIN – TYPE C

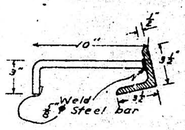
Scale 1" = 1'2"

STEEL LIST

1 - 3½ x 3½ x ½ x 7'6" L
10 - ½" ø def. bars 11" long
2 - Dowels - see detail
3 - Anchors " "
1 - Strap - ¾" round - see plan

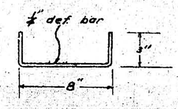


SECTION A-A



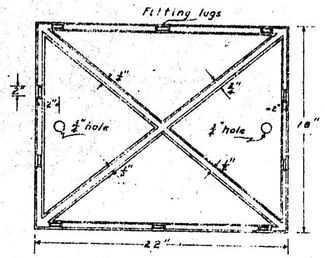
DETAIL OF ANCHOR

Dowel and anchor design are identical for both types of catch basins



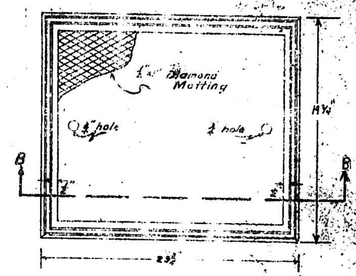
DETAIL OF DOWEL

To be used when top is poured separate

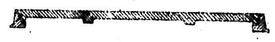


BOTTOM PLAN OF COVER

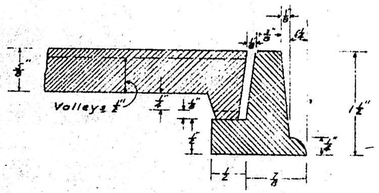
Scale 1" = 6"



PLAN OF FRAME AND COVER

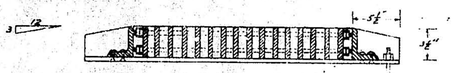


SECTION B-B

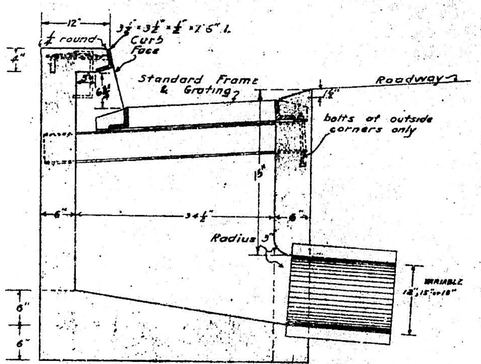


FRAME AND COVER CONNECTION

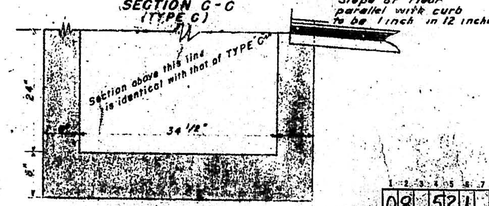
Scale 1" = 1"



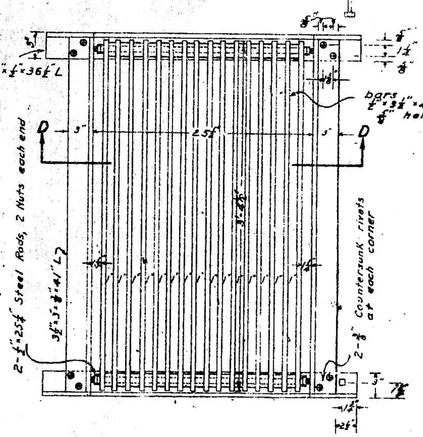
SECTION D-D



SECTION C-C (TYPE C)



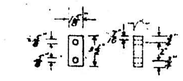
SECTION C-C (TYPE C-1)



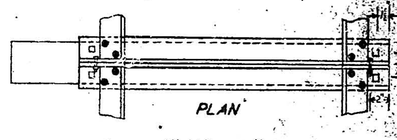
PLAN

STANDARD FRAME AND GRATING

Scale ½" = 1"

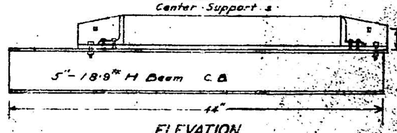


SPACER



PLAN

All bolts used in Center Support.



ELEVATION

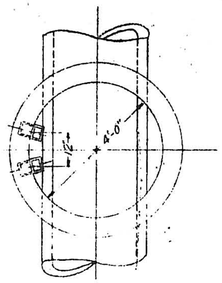
CENTER SUPPORT ASSEMBLY

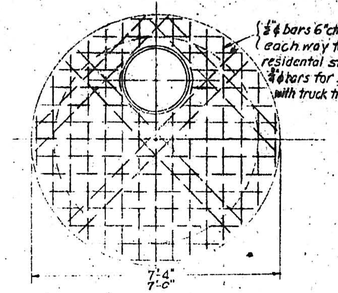
CITY OF ALBUQUERQUE

STANDARD CATCH BASINS, TYPES B&C, C-1 AND APPURTENANCES

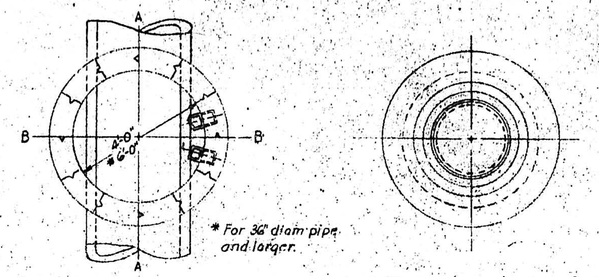
DESIGNED	CONSULTING ENGINEERS	DATE DESIGNED
TRACED		DATE REVISED
CHECKED	HERKENHOFF AND TURNEY	
SCALE		SHEET 3 OF 10

08 521 0352 10

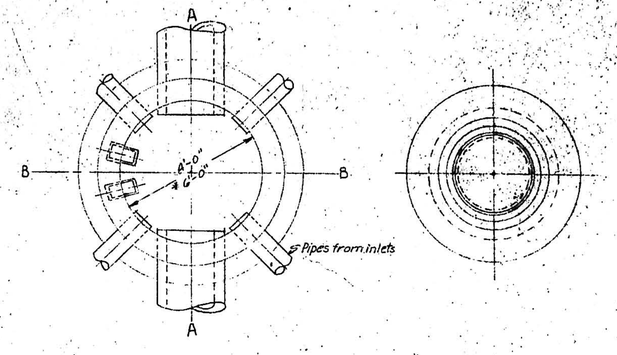


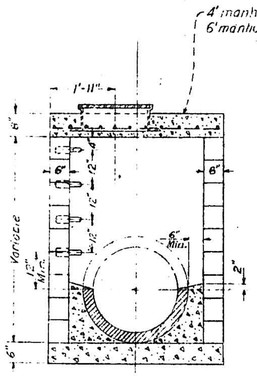


PRECAST CONC COVER

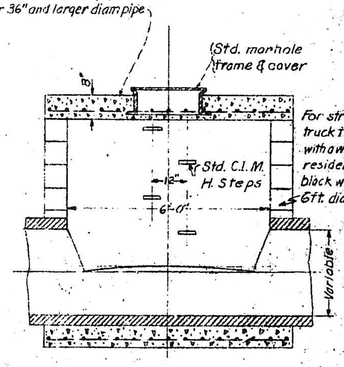


SECTION PLAN



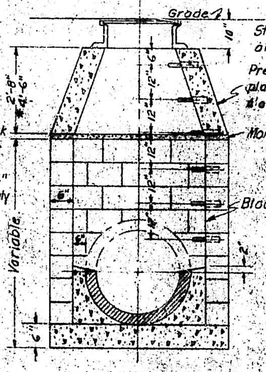


SECT. 4 FOOT M.H.

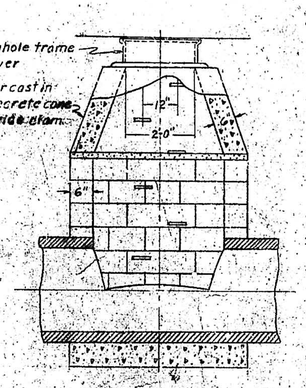


SECT. 6 FOOT M.H.

STANDARD STORM SEWER MANHOLE TYPE "A"



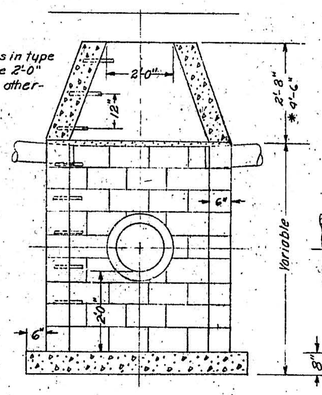
SECTION B-B



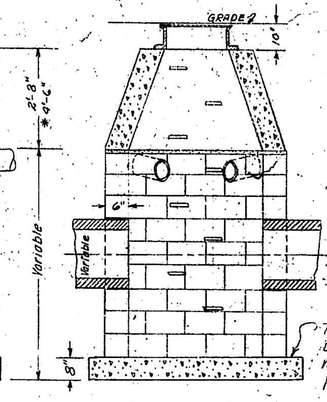
SECTION A-A

STANDARD STORM SEWER MANHOLE TYPE "B"

NOTE:
All catch basins in type "C" manholes to be 2'-0" in depth unless otherwise noted.

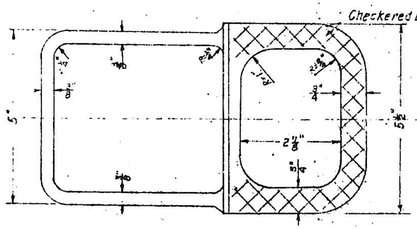


SECTION B-B

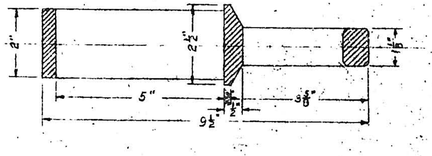


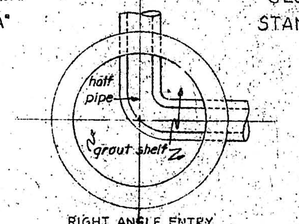
SECTION A-A

STANDARD STORM SEWER MANHOLE TYPE "C"

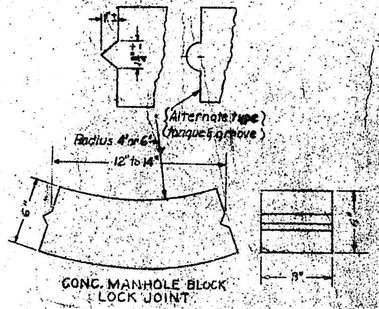


STANDARD MANHOLE STEP





RIGHT ANGLE ENTRY AND EXIT TYPE B MANHOLE

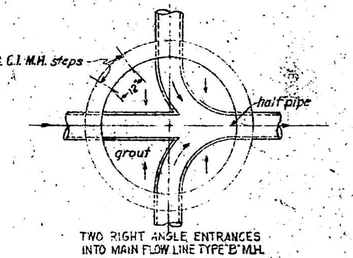


CONC. MANHOLE BLOCK LOCK JOINT

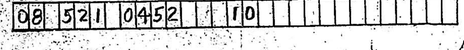
All conc. for manholes & blocks - class "B" 3000 #/in² min.
All reinf. steel structure grade - 18000 #/in²

MANHOLE SPECIFICATIONS

The contractor has the option of building the masonry walls of all manholes of solid concrete or block. If solid concrete is used, the walls must have a thickness of not less than six inches. Block for six inch walls must have a thickness of not less than eight(8) inches, and a width of not less than six(6) inches, a length of twelve(12) to fourteen (14) inches and shall be lock joint type. The concrete from which such blocks are constructed shall meet the specifications for class "A" as set forth in governing concrete specifications for this project. , Type of block must be approved by the Engineer and each block shall be molded with a curvature equal to and matching exactly that of the manhole being built. All concrete blocks shall conform in all respects to the standard specifications for Conc. Masonry Units for construction of Catch Basin & Manholes" A.S.T.M. Designation C 139-39 or any subsequent revisions thereof. Cones may be poured in place, or precast and then grouted to manhole barrel. All manhole frames, covers and steps to be standard cast iron as shown. In wet sewer construction manhole barrels shall be constructed of poured conc. to a pre-determined elevation as shown on plan & profile sheets. Remainder of barrel may be constructed of curved conc. block set in water proof mortar.



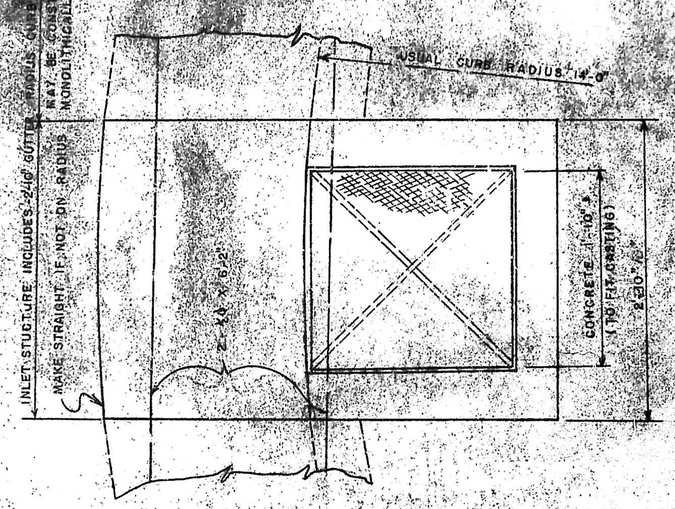
TWO RIGHT ANGLE ENTRANCES INTO MAIN FLOW LINE TYPE "B" M.H.



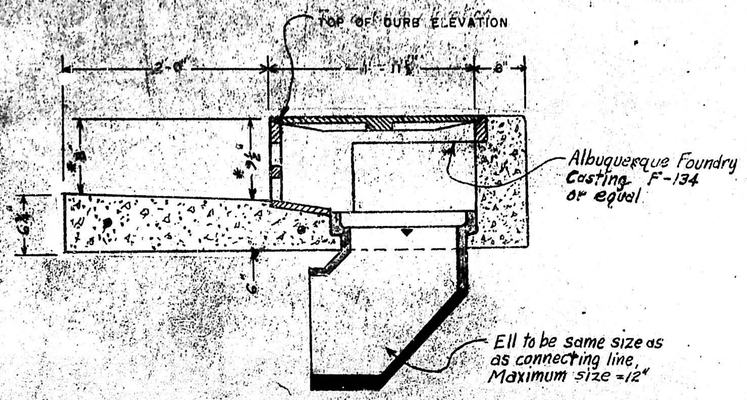
CITY OF ALBUQUERQUE

STANDARD MANHOLE DESIGNS

DESIGNED	CONSULTING ENGINEERS	DATE DESIGNED
TRACED		DATE REVISED
CHECKED		
SCALE	HERKENHOFF AND TURNEY	4 SHEET OF 10



PLAN – CURB INLET (CASTING F-134)
Scale 1½" = 1'

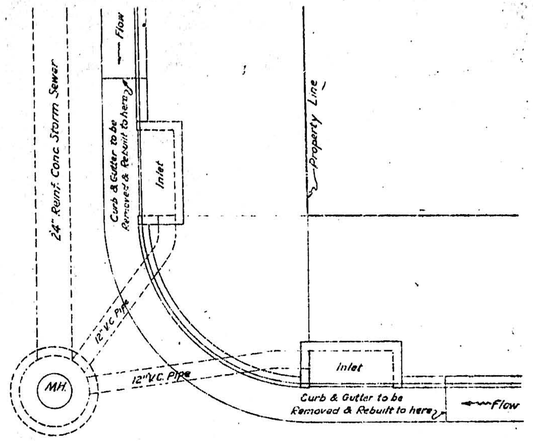


SECTION – CURB INLET

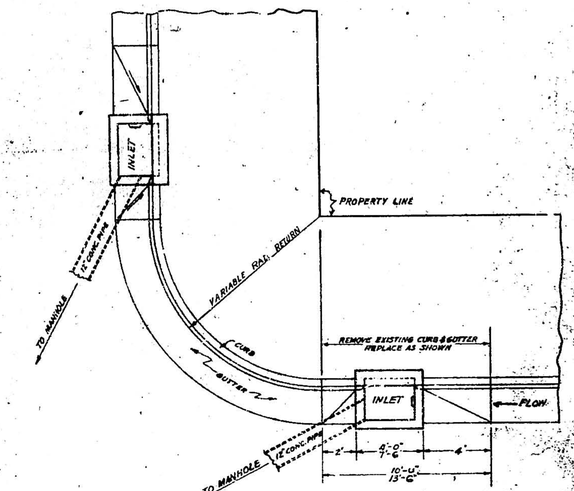
* Note – Usually the Inlet will be placed in the mid-point of the radius. The 8" dimension will diminish to 7½" at the tangent point of the radius and the 8½" diminishes to 8". These dimensions may be modified by the Engineer for special circumstances.

Radius Curb & Gutter not included unless specified.

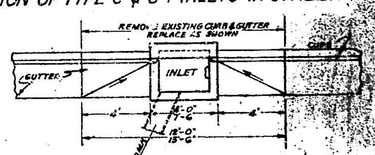
When constructed in existing curb remove 7'



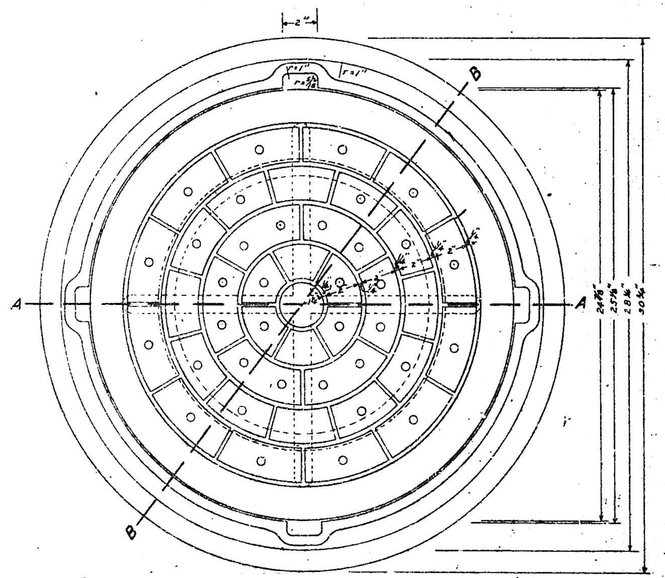
LOCATION OF INLETS IN STREET • TYPE "A"
Scale 1" = 1'-0"



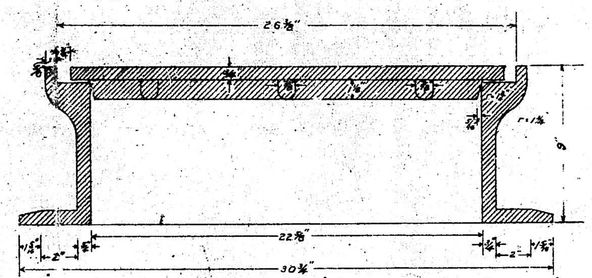
LOCATION OF TYPE "C" & "C-1" INLETS IN STREET



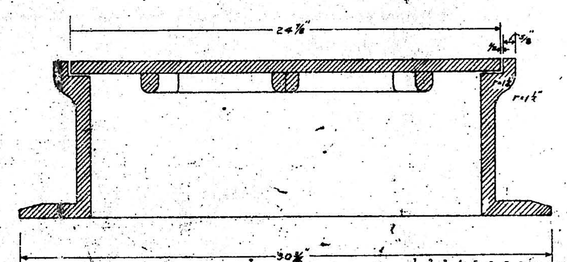
LOCATION OF TYPE "C" & "C-1" INLET IN STREET TANGENT



PLAN
STANDARD MANHOLE FRAME AND COVER
Scale: ½" = 1"

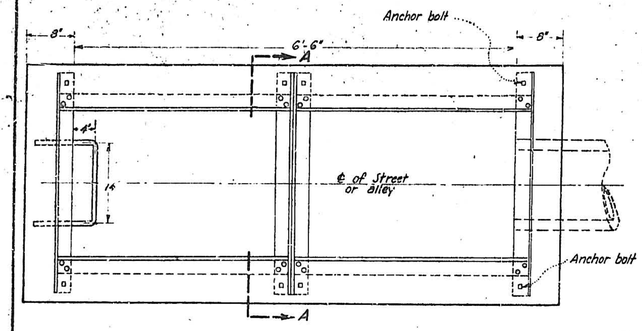


SECTION A-A

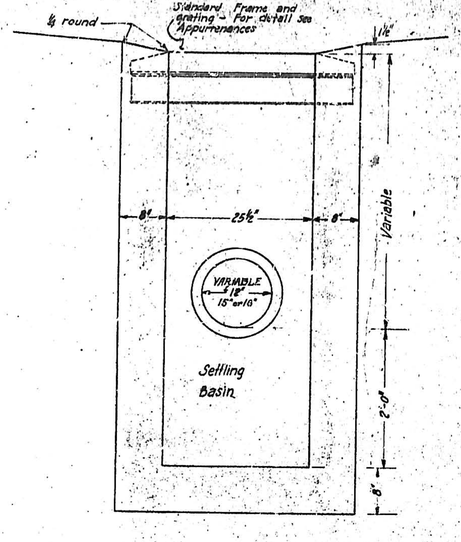


SECTION B-B
Scale: ½" = 1"

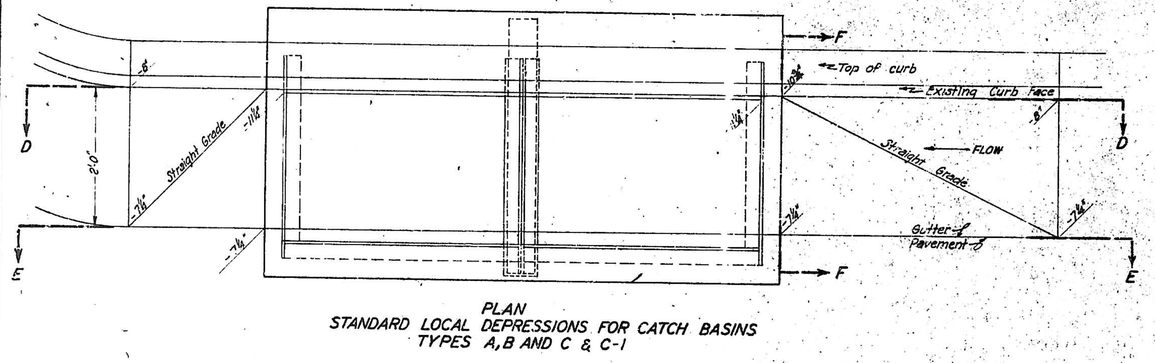
CITY OF ALBUQUERQUE		
TYPE A CURB INLET STANDARD MANHOLE FRAME AND COVER		
DESIGNED	CONSULTING ENGINEERS	DATE DESIGNED
TRACED		DATE REVISED
CHECKED	HERKENHOFF AND TURNEY	
SCALE		SHEET 5 OF 10



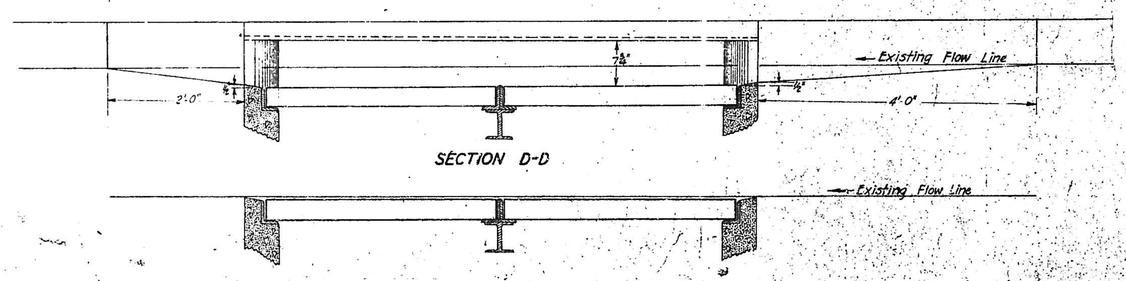
PLAN
STANDARD CATCH BASIN TYPE - D.
Scale 1"=1'



SECTION A-A

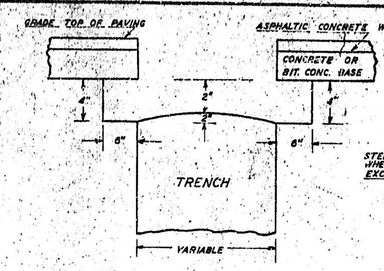


PLAN
STANDARD LOCAL DEPRESSIONS FOR CATCH BASINS
TYPES A, B AND C & C-1



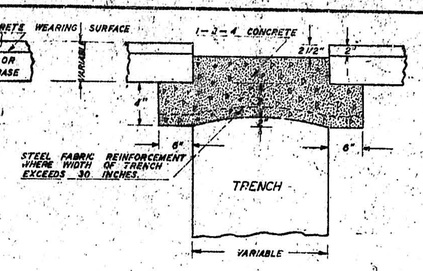
SECTION D-D

SECTION E-E



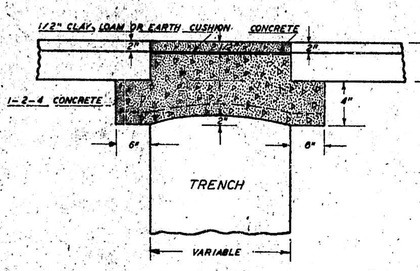
STEP 1.

(A). BACKFILL AND HAND-TAMP THE OPEN TRENCH IN SUCCESSIVE LAYERS OF NOT MORE THAN SIX INCHES IN THICKNESS.
(B). SQUARE UP EXPOSED EDGES OF PAVING IN A NEAT MANNER.
(C). EXCAVATE DIRECTLY UNDER EDGE OF PAVING A TRENCH 6" WIDE AND 4" DEEP AS SHOWN ABOVE.
(D). ARCH BACKFILL IN CENTER OF TRENCH MAKING THE CROWN AT CENTER 2" BELOW BOTTOM EDGE OF PAVING.
(E). DEPTH OF PATCH WILL VARY ACCORDING TO TYPE OF PAVING TO BE REPAIRED.



STEP 2.

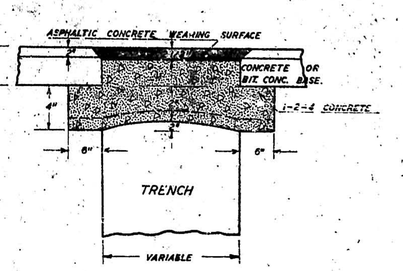
(A). WASH OFF THE EXPOSED PAVING EDGES AND WET THE SUBGRADE LIGHTLY.
(B). FILL WITH A 1-2-4 MIX CONCRETE TO WITHIN 2½" OF GRADE OR TOP OF PAVING TAMP THE CONCRETE THOROUGHLY, ESPECIAL CARE BEING TAKEN TO COMPLETELY FILL AND TAMP THE CONCRETE INTO THE TRENCH UNDER EDGE OF PAVING.
(C). WHERE THE WIDTH OF TRENCH EXCEEDS 30 INCHES PLACE ONE LAYER OF STEEL FABRIC REINFORCEMENT WEIGHING NOT LESS THAN 35 POUNDS PER 100 SQ. FT., 2" ABOVE THE BOTTOM OF THE CONCRETE.
(D). STRIKE THE SURFACE OF THE CONCRETE OFF ROUGHLY WITH A SHOVEL BUT DO NOT FINISH SMOOTH.



STEP 3.

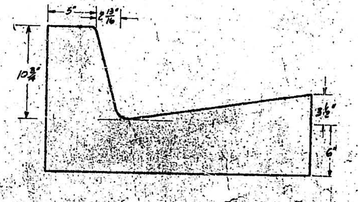
(A). AFTER THE CONCRETE PLACED IN STEP 2. HAS TAKEN ITS INITIAL SET PLACE A ½" LAYER OF CLAY, LOAM OR ORDINARY EARTH (NOT SAND) OVER THE SURFACE OF THE CONCRETE.
(B). FILL REMAINDER OF CUT WITH 1-2-4 MIX CONCRETE TO TOP OF PAVING AND FINISH WITH WOODEN FLOAT.
(C). BARRICADE AGAINST TRAFFIC FOR AT LEAST 24 HOURS AFTER PLACING TOP COURSE. AT NIGHT PLACE LANTERNS OR TORCHES BY THE BARRICADES.

NOTE: TO REPAIR CUTS IN PLAIN CONCRETE ALLEY PAVING. PREPARE THE OPENING AS IN STEP 1. FILL WITH 1-2-4 MIX CONCRETE AND FINISH FLUSH WITH TOP OF PAVING.

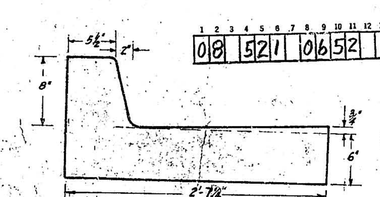


STEP 4.

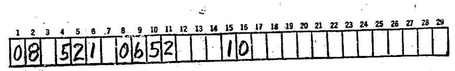
(A). BREAK AND CHIP OUT THE 2" TOP COURSE OF CONCRETE AND ½" LAYER OF DIRT.
(B). CUT BACK THE EDGE OF PRESENT ASPHALTIC CONCRETE SURFACE ON AN ANGLE OF 45° WITH VERTICAL OR 1 TO 1 SLOPE
(C). CLEAN OUT, CUT AND SWEEP CLEAN WITH HEAVY BROOM.
(D). HAUL AWAY AND DISPOSE OF ALL WASTE MATERIALS.
(E). REPAIR CUT WITH ASPHALTIC CONCRETE WEARING SURFACE IN ACCORDANCE WITH CITY PAVING SPECIFICATIONS. THE SURFACE FINISH TO BE THE SAME TYPE AS THAT OF PAVING SURROUNDING THE PATCH.
(F). THE STREET IN VICINITY OF PATCH SHALL BE THOROUGHLY CLEANED UP BEFORE BEING OPENED TO TRAFFIC.



SECTION F-F



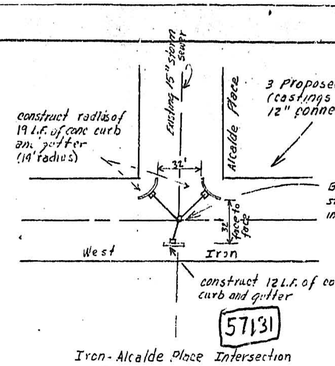
STANDARD SECTION
CURB AND GUTTER



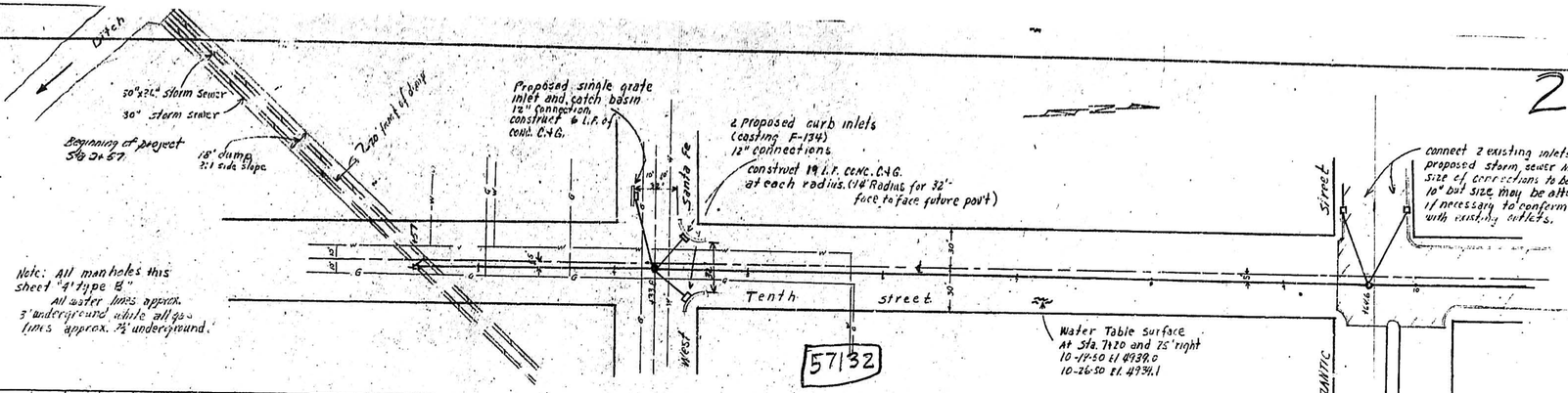
CITY OF ALBUQUERQUE

STANDARD METHOD OF REPAIRING CUTS IN PAVEMENTS - ALSO - STANDARD LOCAL DEPRESSIONS FOR CATCH BASINS

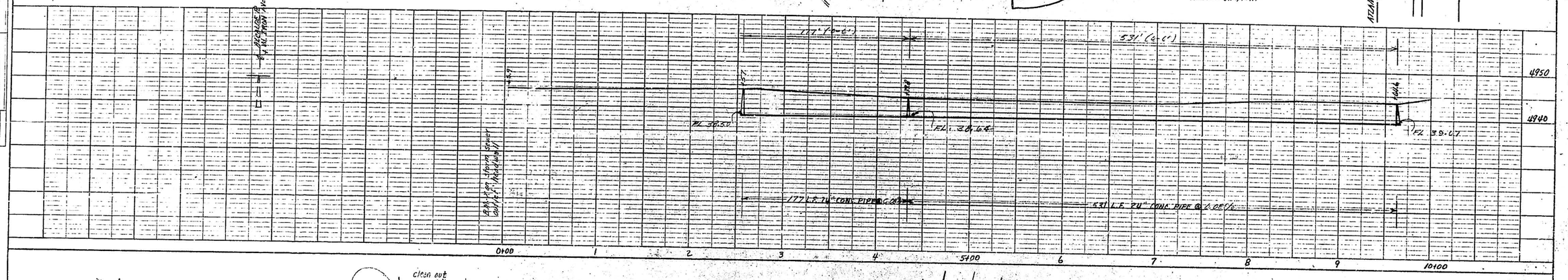
DESIGNED	CONSULTING ENGINEERS	DATE DESIGNED
TRACED		DATE REVISED
CHECKED		
SCALE	HERKENHOFF AND TURNEY	SHEET 6 OF 10

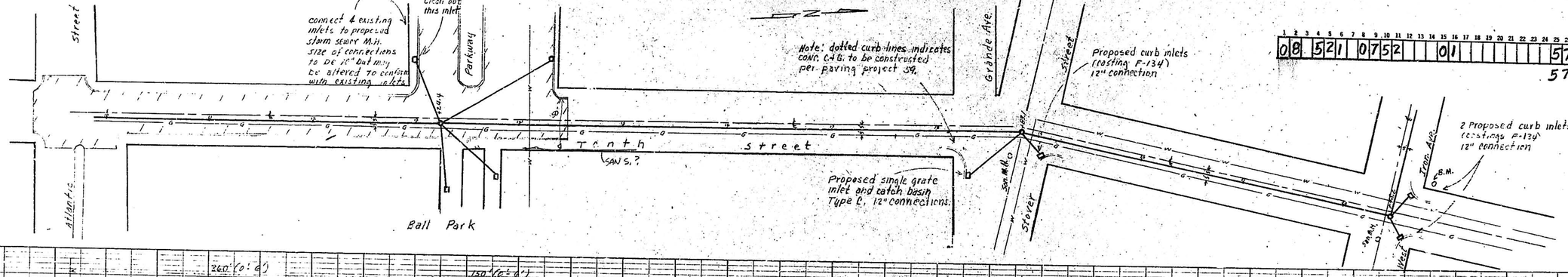


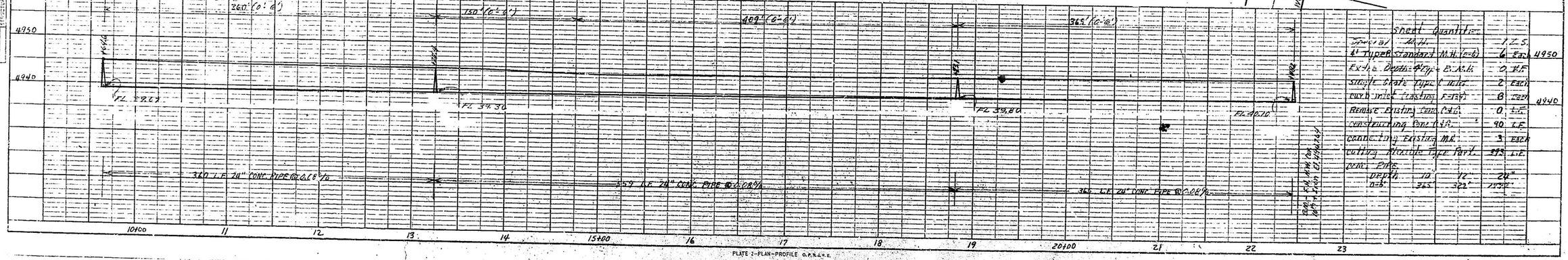
Iron - Alcalde Place Intersection



Note: All manholes this sheet "4' Type B"
All water lines approx. 3' underground while all gas lines approx. 2½' underground.







Sheet Quantities		
Special M.H.	1	EA.
4' Type B Standard M.H. (6-6)	6	EA.
Ext. & Depth of Type B M.H.	0	V.F.
Single Grate Type C Inlet	2	EACH
Curb Inlet (casting F-134)	8	EACH
Remove Existing Conc C+G	0	L.F.
Constructing Conc C+G	90	L.F.
Connecting Existing M.H.	3	EACH
Cutting Existing Pipe Part	895	L.F.
R.C.P. Pipe		
Depth 10' 12' 20'		
L.F. 325 323 1532		

0 8 5 2 1 0 7 5 2 0 1 5 7 1 3 1

57132

PLAN: SURVEYED, PLOTTED, NOTE BOOK, ALIGNMENT CHECKED, PT. OF WAY CHECKED, NO., DATE

PROFILE: SURVEYED, PLOTTED, NOTE BOOK, ALIGNMENT CHECKED & W.S. NOTED, PT. OF WAY CHECKED, NO.

PLATE 2-PLAN-PROFILE O.P.R.D.E.E.
CHARLES DRUNING COMPANY, INC.

2

Construct radius of 19 L.F. of conc curb and gutter (14' radius)

Existing 15" storm sewer

Alcalde Place

3 Proposed curb inlets (castings F-134) 12" connections

Break into existing storm sewer line and install 4' Type B M.H.

West

Iron

construct 12 L.F. of conc. curb and gutter

57131

Iron - Alcalde Place Intersection

Ditch

30"x34" Storm Sewer

30" storm sewer

Beginning of project Sta 0+00.67

18' dump 2:1 side slope

240 feet of ditch

Proposed single grate inlet and catch basin 12" connection. construct 6 L.F. of conc. C+G.

2 proposed curb inlets (casting F-134) 12" connections

construct 19 L.F. conc. C+G. at each radius. (14' Radius for 32' face to face future pav't)

Santa Fe

Note: All manholes this sheet "4' Type B." All water lines approx. 3' underground while all gas lines approx. 2½' underground.

Tenth

street

West

57132

Water Table Surface At Sta. 7+20 and 25' right 10-19-50 El 4939.0 10-26-50 El. 4937.1

connect 2 existing inlets to proposed storm sewer M.H. Size of connections to be 10" but size may be altered if necessary to conform with existing outlets.

Street

Atlantic

Alcalde Place

Ditch

4950

4940

0+00 1 2 3 4 5+00 6 7 8 9 10+00

177' (6-6")

531' (6-6")

FL 36.51

FL 38.64

FL 39.07

177 L.F. 24" CONC. PIPE @ 0.25% 531 L.F. 24" CONC. PIPE @ 0.25%

connect 4 existing inlets to proposed storm sewer M.H. size of connections to be 10" but may be altered to conform with existing inlets

clean out this inlet

Parkway

Street

Tenth

street

Ball Park

Atlantic

Note: dotted curb lines indicates conc. C+G. to be constructed per paving project 59.

Grande Ave.

Proposed curb inlets (castings F-134) 12" connection

Proposed single grate inlet and catch basin Type L, 12" connection.

Sta. M.H.

Stover

Street

2 Proposed curb inlets (castings F-134) 12" connection

Iron Ave.

B.M.

Sta. M.H.

West

08 521 0752 01 57131

57132

4950

4940

10+00 11 12 13 14 15+00 16 17 18 19 20+00 21 22 23

360' (6-6") 150' (6-6") 405' (6-6") 365' (6-6")

FL 29.63 FL 34.30 FL 39.80 FL 30.70

360 L.F. 24" CONC. PIPE @ 0.25% 557 L.F. 24" CONC. PIPE @ 0.25% 365 L.F. 24" CONC. PIPE @ 0.25%

Sheet Quantities

Special M.H.	1	L.S.
4' Type B Standard M.H. (6-6)	6	Ea.
Extra Depth 4' Type B M.H.	0	V.F.
Single Grate Type L Inlet	2	Each
Curb Inlet (castings F-134)	8	Each
Remove Existing Conc. C+G	0	L.F.
Constructing Conc. C+G	90	L.F.
Connecting Existing M.H.	3	Each
Cutting Asphalt Type Pave.	993	L.F.
Conc. Pipe		
Depth 10 12 24"		
0-8' 365 392' 1295'		

PLATE 2-PLAN-PROFILE O.P.R.&R.E. CHARLES BRUNING COMPANY, INC.

SHEET 7 of 10

PLAN SURVEYED BY DATE PLOTTED NOTE BOOK ALIGNMENT CHECKED NO. RT. OF WAY CHECKED

PROFILE SURVEYED BY DATE PLOTTED NOTE BOOK ELEVATIONS CHECKED NO. STRUCTURE POINTS CHECKED

PLAN — SURVEYED ____ DATE ____ BY ____ PLOTTED ____ ALIGNMENT CHECKED ____ NOTE BOOK ____ EL. OF MH CHECKED ____ NO. ____

PROFILE — SURVEYED ____ PLOTTED ____ GRADES CHECKED ____ NOTE BOOK ____ ELEV. OF MH'S & STRUCTURE NOTATIONS CHKD ____ NO. ____

Street — Abandoned Storm Sewer M.H. — Water Table Surface 10-26-50 El. 4939.5 — Proposed curb inlet (casting F-134) 12" connections — Sto. M.H. — Iron — West — 2 Proposed curb inlets (casting F-134) 12" connections — Twelfth — Coal — Abandoned Storm Sewer M.H. — note: (storm sewer line angle from 15' East of center line at Sta. 39+17 to 5' East of C.L. at Sta. 36+74.)

2 Proposed curb inlets (casting F-134) 12" connections

Dotted curb and gutter to be constructed per paving project "54"

Proposed single Grate inlet and catch basin Type C" 12" connections

construct 6 L.F. of C&G beyond end of radius

57132

4950 — 4940

377' (0-6) — 1080' (0-6) — 377 L.F. 24" Conc. PIPE @ 0.08% — 715 L.F. 21" Conc. PIPE @ 0.08% — 350 L.F. 21" Conc. PIPE @ 0.08% — 357 L.F. 21" Conc. PIPE @ 0.08%

Fl. 40.10 — Fl. 41.30 — Fl. 40.60 — Fl. 41.24

22 — 23 — 24 — 25+00 — 26 — 27 — 28 — 29 — 30+00 — 31 — 32 — 33 — 34 — 35+00 — 36

Abandoned Storm Sewer M.H. — connect 4 existing inlets to proposed storm sewer M.H. size of connections -10" but may be altered to conform with existing inlets. — Lead — Sto. M.H. — Silver — 2 Proposed Curb Inlets (casting F-134) 12" connections — Abandoned Storm Sewer M.H. — connect 4 existing inlets to proposed storm sewer M.H. size of connections -10" but may be altered to conform with existing inlets. — 3 Proposed Curb Inlets (casting F-134) 12" connections — Washington Park Ave.

Note: All Manholes "Type B" All water lines approx 3' underground. All gas lines approx 2½' underground.

Water Table Surface 10-26-50 El. 4939.1

Remove 11 L.F. and replace 4 L.F. of Conc. Curb and Gutter at each radius — Twelfth Street — West — P.M. — Remove 11 L.F. and Replace 4 L.F. of Conc. Curb and Gutter at each radius — Remove 11 L.F. and replace 8 L.F. of Cont. Curb and Gutter

08 52 1 08 52 01 57132

57131

4950 — 4940

365' (0-6) — 360' (0-6) — 212' (0-6) — 365 L.F. 21" Conc. PIPE @ 0.08% — 360 L.F. 18" Conc. PIPE @ 0.08% — 216 L.F. 15" Conc. PIPE @ 0.08%

Fl. 41.40 — Fl. 41.69 — Fl. 40.90 — Fl. 42.19

36 — 37 — 38 — 39 — 40+00 — 41 — 42 — 43 — 44 — 45+00 — 46 — 47

Sheet Quantities

4' Type B Standard M.H. (0-6')	7	Each
Extra Depth - 4' type B M.H.	0	V.F.
Single Grate Type C Inlet and Catchbasin	1	Each
Curb Inlet (casting F-134)	8	Each
Remove Existing Conc. C & G	40	L.F.
Constructing Conc. C & G	20	L.F.
Connecting Existing M.H.	0	Each
Cutting Flexible Type Pavement	220	L.F.

Cond. Pipe	10"	12"	15"	18"	21"	24"
Depth 0-6	228'	216'	216'	360'	1415'	377'

PLATE 2 PLAN PROFILE B P R STANDARD
EUGENE DIETZGEN CO. Chicago-New York

SHEET 8 of 10

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2

Proposed curb inlet (casting F-134) 12" connections

Water Table Surface Oct-30 El. 4952

Abandoned storm sewer M.H.

Street

Abandoned Storm Sewer M.H.

2 Proposed curb inlets (casting F-134) 12" connections

note: (storm sewer line angles from 15° East of center line at Sta. 33+17 to 5° East of ℄ at Sta. 34+14.

2 Proposed curb inlet (casting F-134) 12" connections

Dotted curb and gutter to be constructed per paving project "59

57132

Proposed single Grate inlet and catch basin Type C 12" connections

construct 6'-0" of Curb beyond end of radius

Iron

West

Twelfth

Street

B.M.

PLAN: SURVEYED, PLOTTED, NOTE BOOK, DRAWN, CHECKED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, NOTE BOOK, GRADES CHECKED, B. ML. NOTED, STRUCTURES DETAILING CHKD, No., BY, DATE

4950

4940

377' (0-6)

1000' (0-6)

377 L.F. 24" CONC. PIPE @ 0.08%

351 L.F. 21" CONC. PIPE @ 0.08%

351 L.F. 21" CONC. PIPE @ 0.08%

351 L.F. 21" CONC. PIPE @ 0.08%

FL. 41.10

FL. 41.30

FL. 41.80

FL. 41.04

22 23 24 25+00 26 27 28 29 30+00 31 32 33 34 35+00 36

connect 4 existing inlets to proposed storm sewer M.H. size of connections -12" but may be altered to conform with existing inlets.

Abandoned Storm Sewer M.H.

Lead

Abandoned Storm Sewer M.H.

2 Proposed Curb Inlets (casting F-134) 12" connections

Street

Abandoned Storm Sewer M.H.

connect 4 existing inlets to proposed storm sewer M.H. size of connections -12" but may be altered to conform with existing inlets.

3 Proposed Curb Inlets (casting F-134) 12" connections

Note: All Manholes Type B
All water lines approx 3' underground.
All gas lines approx 2½' underground.

Lead

WASHINGTON PARK

Water Table Surface 10-26-50 El. 4934

Remove 7 L.F. and Replace 4 L.F. of Conc. Curb and Gutter at each radius

Remove 11 L.F. and Replace 4 L.F. of Conc. Curb and Gutter at each radius

Remove 12 L.F. and replace 8 L.F. of Cont. Curb and Gutter

Twelfth Street

B.M.

West

WEST PARK AVE

57131

4950

4940

365' (0-6)

360' (0-6)

222' (0-6)

49' (0-6)

EL 41.49

FL. 41.69

FL. 41.98

FL. 42.19

Cut 4.0 Ft. Fill 2.0 Ft.

365 L.F. 21" CONC. PIPE @ 0.08%

365 L.F. 18" CONC. PIPE @ 0.08%

222 L.F. 15" CONC. PIPE @ 0.08%

36 37 38 39 40+00 41 42 43 44 45+00 46 47

Street Quantities

4' Type B Standard M.H. (0-6)	7	Each
Extra Depth 4' Type B M.H.	0	V.F.
Single Grate Type C Inlet and Catch Basin	1	Each
Curb Inlet (casting F-134)	8	Each
Remove Existing Conc. C. & G.	40	L.F.
Constructing Conc. C. & G.	20	L.F.
Connecting Existing M.H.	0	Each
Cutting Flexible Type Pavement	830	L.F.

Conc. Pipe	0"	12"	15"	18"	21"	24"
Depth 0-6	728	715	278	360	1648	727

08 521 0852 01 57132

57131

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PLATE 2 PLAN PROFILE B P R STANDARD
EUGENE DIETZGEN CO. Chicago-New York

SHEET 8 of 10

PRINTED IN U. S. A. ON 100% RAG STOCK MADE IN U. S. A.

Proposed Single Grate Type C Inlet and catch basin 12" conn. items

End of lateral

Stover Street

Eleventh Street

Proposed Double Grate Standard Std. 6 Basin "Type C" 12" conn. items

57132

STOVER STREET LATERAL

Note: All manholes this sheet proposed "4' type B" curb shown by dotted lines indicate curb & gutter to be constructed per paving project #2

All water lines approx. 3' underground and all gas lines approx. 2½' underground.

Stub

11th Street

Proposed curb inlets (casting F-134) 12" connections

Remove 7 L.F. and replace 4 L.F. conc. curb and gutter.

Proposed single Grate inlet and cut & basin construct 6 L.F. conc. curb and gutter 12" connections

57132

11th Street Lateral

569' (0-6')

FL. 42.14

369 L.F. 12" CONC. PIPE @ 0.50%

220 L.F. 15" CONC. PIPE @ 0.30%

FL. 39.60

FL. 40.60

Connect 4 existing inlets to proposed storm sewer, M.H. size of connections - 10"

Silver Street

Eleventh Street

57131

SILVER STREET LATERAL

351' (0-6')

FL. 41.13

FL. 37.84

351 L.F. 12" CONC. PIPE @ 0.50%

0 8 5 2 1 0 9 5 2 0 1 5 7 1 3 2

57131

Sheet Quantities

4' Type B standard M.H. (4-6")			3 Each
Extra Depth - 4' Type B M.H.			0 V.F.
Single Grate Type C Inlet & catch basin			2 Each
C.I.C. inlet (casting F-134)			1 Each
Remove existing conc. C.&G.			7 L.F.
Construct new conc. C.&G.			10 L.F.
Connecting existing M.H.			0 Each
Cutting asphalt pave. (6in)			450 L.F.
CONC. PIPE			
Depth	12"	15"	
0-6'	525	220	745
Double Grate standard catch basin type			1 Each

PLATE 2-PLAN-PROFILE O.M.B.R.E.
CHARLES RUNYON COMPANY INC.

Proposed Single Grate Type C inlet and catch basin. 12" conn. thru

Grade to A.V.

End of lateral

Stover Street

Proposed Double Grate Standard Catch Basin "Type C" 12" conn. thru

Note: All manholes this sheet proposed "4' type B" curb shown by dotted line. Inbrate curb & gutter to be constructed per paving project 58.

All water lines approx. 3' underground and all gas lines approx. 2½' underground.

Eleventh Street

11th Street

Proposed curb inlets (grading F-134) 12" connections

Remove 7 L.F. and replace 4 L.F. conc. curb and gutter.

Proposed Single Grate inlet and catch basin construct 6 L.F. conc. curb and gutter. 12" connections

57132

STOVER STREET LATERAL

11th Street Lateral

Exist. 12" conc. pipe

Exist. 10" conc. lateral

Exist. 12" trunk Back

Exist. 10" conc. lateral

Exist. 12" conc. pipe

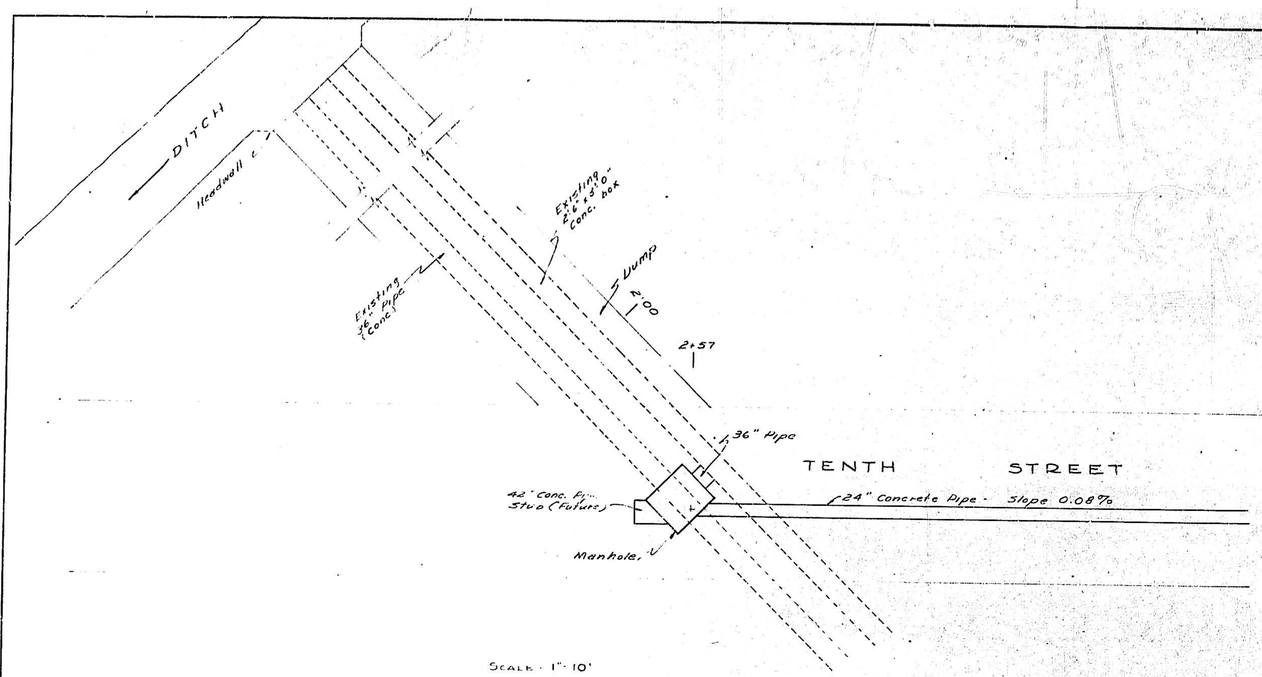
Exist. 10" conc. lateral

Exist. 12" conc. pipe

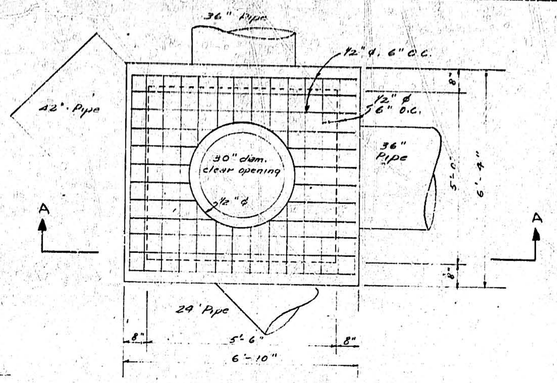
Exist. 12" conc. pipe

Exist. 12" conc. pipe

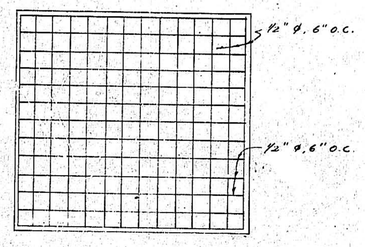
PLAN
SURVEYED
PLOTTED
NOTE BOOK
NO.
ALIGNMENT CHECKED
PT. OF WAY CHECKED
BY
DATE



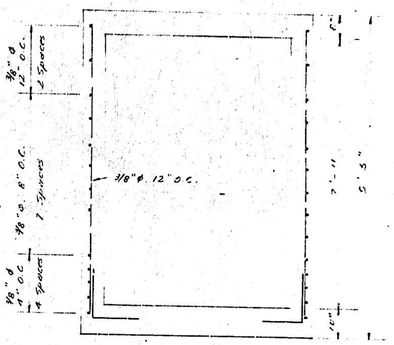
SCALE - 1" - 10'



ROOF PLAN - STRUCT.
SCALE - 1/2"=1'-0"

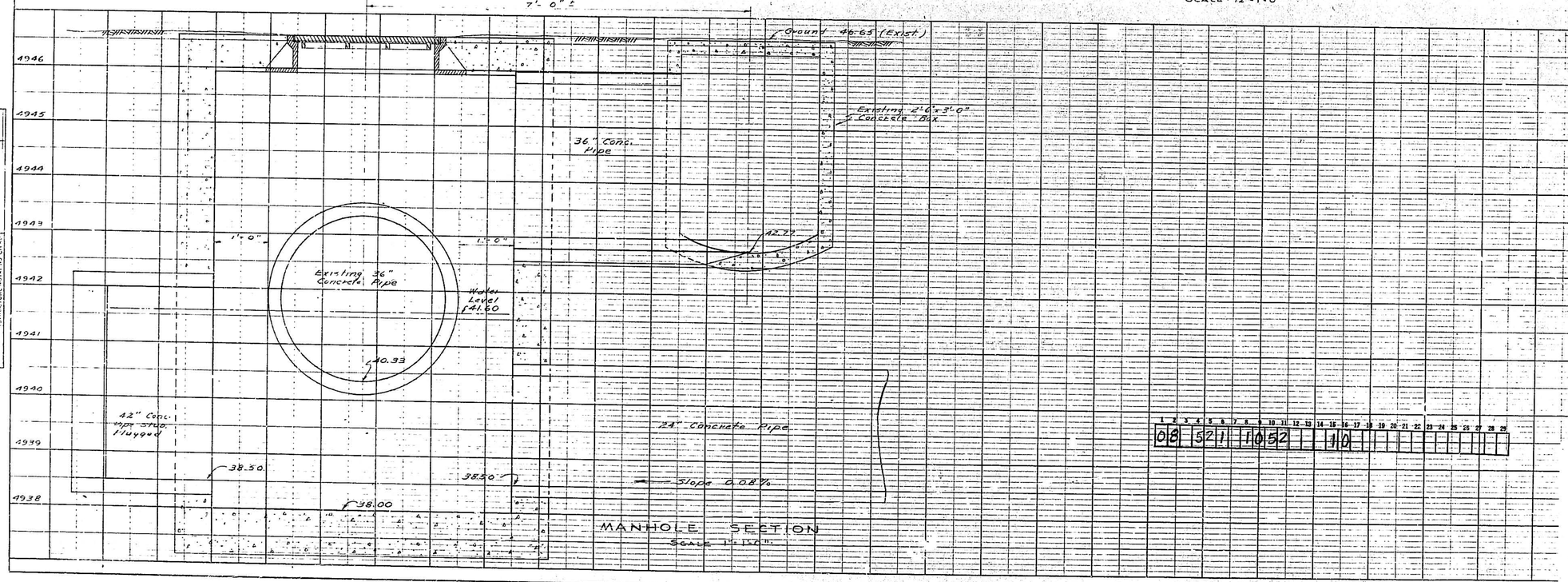


FLOOR PLAN - STRUCT.
SCALE - 1/2"-1'-0"



SECTION A-A-
SCALE - 1/2"-1'-0"

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
BY
NOTE BOOK
NO.
STRUCTURE NOTATIONS CHECKED
DATE



MANHOLE SECTION
SCALE 1"=10'-0"

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29
08 52 1 10 52 10

PLATE I—PLAN—PROFILE O. P. R. & R. E.
CHARLES BRUNING COMPANY, INC.