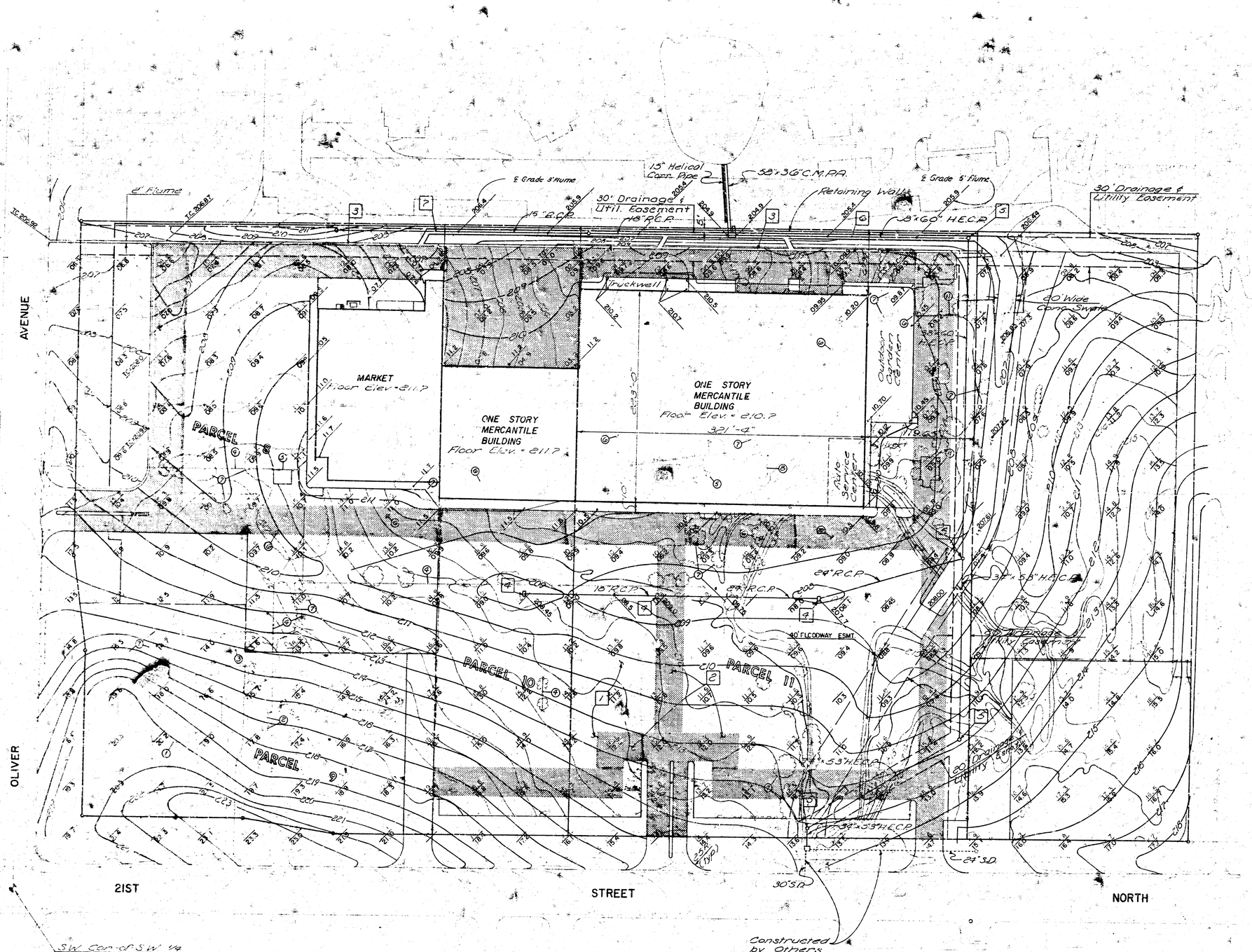


LEGEND

- Exist. Contours
- Finished Contours
- Exist. Spot Elev. / Finished Grade Spot Elev.
- Exist. Water Line
- Exist. Gas Line
- Underground Telephone Cable & Manhole
- Exist. Fire Hydrant
- Exist. Telephone Pole
- Exist. San. Sewer
- Exist. Telephone Cable
- Exist. Power Line & Pole

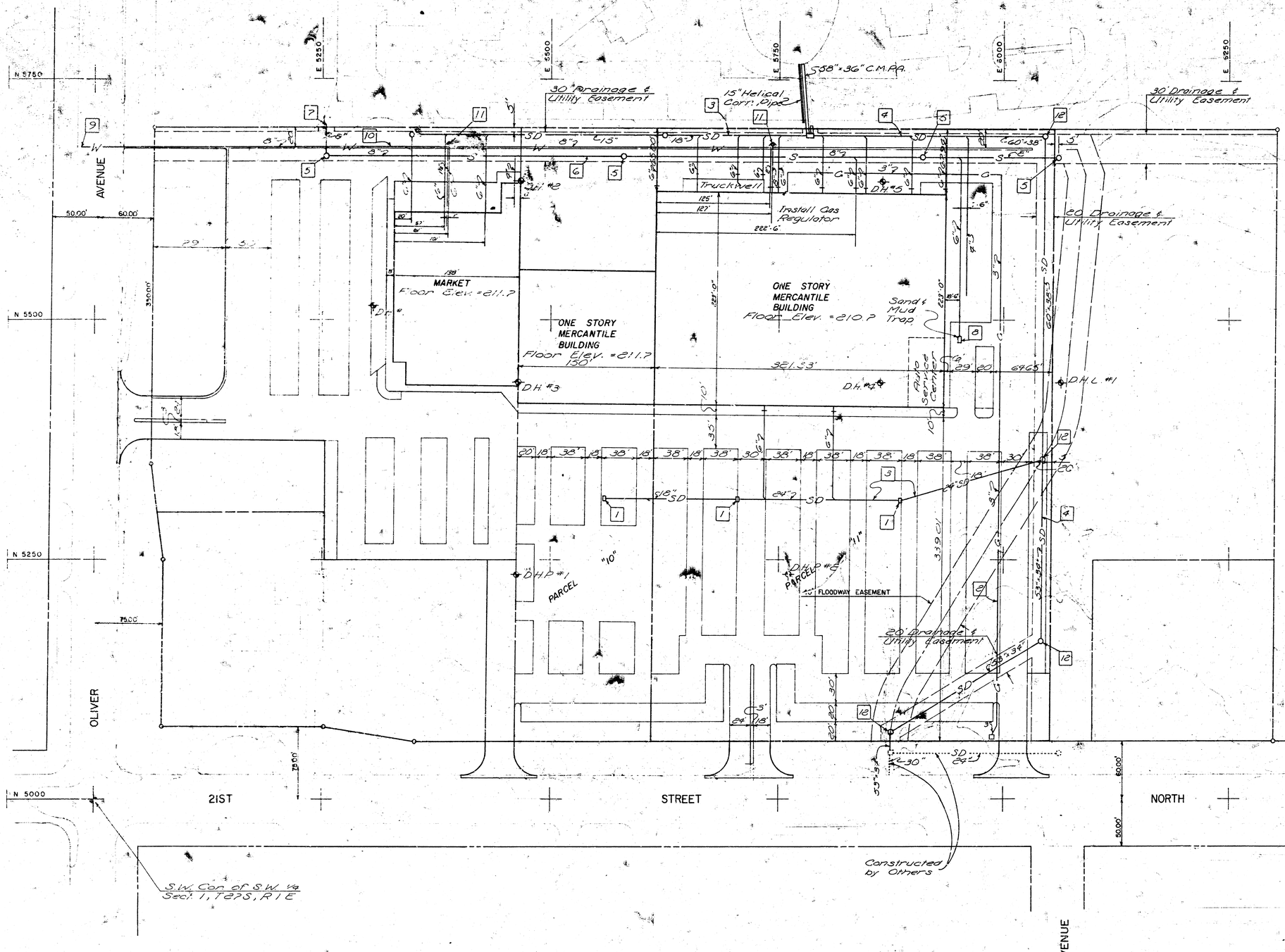
CONSTRUCTION NOTES

1. Construct Parking Lot Pavement See Detail Sh. C-6
2. Construct Service Drive Pavement See Detail Sh. C-6
3. Construct 24 inch Concrete Curb & Gutter See Detail Sh. C-6
4. Construct Area Inlet See Detail Sh. C-9, 5&6
5. Construct Reinforced Concrete Manhole See Detail Sh. C-9, 5&6
6. Construct 5' Bottom Flume See Detail Sh. C-6
7. Construct 3' Bottom Flume See Detail Sh. C-6
8. Install Concrete Wheel Stops See Architectural Site Plan For Additional Information

SITE PREPARATION

1. Remove Single Family Home
2. Remove Existing Stairway & Fish Pond
3. Remove Stone Dog House
4. Remove Fencing
5. Remove Foundation
6. Power Pole Removed After Checking With Engineer
7. Clear All Trees From Site Not Marked For Saving
8. Remove & Retain On Site 36" R.C.P. Culvert
9. Remove Septic Tank & Tile
10. Existing Pond At Rate Not To Exceed 450 G.P.M.
11. Remove Existing Structure & Foundation

Note: No splicing of copper water service lines will be allowed beneath paved areas. Where fittings are required, the copper tubeing shall be joined by the flared coupleing method.



SCALE : 1" = 50'

LEGEND

- Exist. Contours
- Exist. Spot Elev.
- Exist. Water Line
- Exist. Gas Line
- Underground Telephone Cable & Manhole
- Exist. Fire Hydrant
- Exist. Telephone Pole
- Exist. San. Sewer
- Exist. Telephone Cable

CONSTRUCTION NOTES (UTILITY PLAN)

1. Construct Area Inlet See Detail Sh. C-9.5 (G)
2. Install 3 Inch Gas Line, Meter Pad, & Regulator
3. Install R.C.P. Storm Drain
4. Install H.E.C.P. Storm Drain
5. Construct Sanitary Sewer Manhole
6. Install 8 Inch V.C.P. Sanitary Sewer Line See Sh. C-3
7. Make Connection To Existing Sanitary Sewer Manhole
8. Construct Sand & Mud Trap See Detail Sh. C-5
9. Construct Concrete Flood Wall See Detail Sh. C-5
10. Construct Concrete Curb & Gutter See Detail Sh. C-5
11. Construct Concrete Driveway See Detail Sh. C-5
12. Construct Concrete Sidewalk See Detail Sh. C-5

B.M. - City of Wichita bench mark disc., 33' West and 92' North of center line both. Elev. = 217.82

Exist. Pond

Exist. 58"x 36" C.M.P.A.

15' Helical Corr. Pipe

Sta. 0+55.00 Install 78 L.F. 58"x 36" C.M.P.A.

276.0' to ℄ of Easement

30' Drainage & Util. Esmt.

30' Drainage & Utility Easement

15" R.C.P.

18" R.C.P.

60"x 38" H.E.C.P.

Line 1

Line 2

Line 3

Sta. 1+00.00 Line 1 = Sta. 1+00.00 Line 3 Const. Outlet Box Structure See Detail Sh. C-7.

Sta. 5+66.00 Const. Reinforced Conc. M.H. See Detail Sh. C-5.

40' Floodway Easement

20' Drainage & Util. Esmt.

DILLON'S
FLOOR ELEV. = 211.7

ONE STORY MERCANTILE BUILDING
FLOOR ELEV. = 211.7

K MART
FLOOR ELEV. = 210.7

Sta. 3+49.21 Const. Area Inlet See Detail Sh. C-5

Sta. 7+01.00 Line 1 = Sta. 2+00.00 Line 3 Const. Reinforced Conc. M.H. See Detail Sh. C-5.

18" R.C.P.

24" R.C.P.

51.67'

93.33'

180.00'

Sta. 4+83.21 Const. Area Inlet See Detail Sh. C-5

Sta. 1+64.21 Const. Area Inlet See Detail Sh. C-5

Match Line

Scale 1" = 50'

Match Line

Sta. 6+90.50 Const. Reinforced Conc. M.H. See Detail Sh. C-5

40' Floodway Easement

Sta. 10+83.15 Const. Reinforced Conc. M.H. See Detail Sh. C-5

Line 1

60" H.E.C.P.

60' Drainage & Util. Esmt.

Sta. 11+03.15 Exist. M.H.

Constructed by Others

177.00'

B.M. - City of Wichita bench mark disc., 33' West and 92' North of center line both. Elev. = 217.82

Sta. 0+00.00 Line 2 = Sta. 1+00.00 Line 3 Const. Reinforced Conc. M.H. Top Elev. = 220.4

230.0 L.F. 15" R.C.P. @ 0.60%

Sta. 2+30.00 Const. M.H. Top Elev. = 220.4 Inv. (S) = 208.23 Inv. (N) = 208.10

160.0 L.F. 18" R.C.P. @ 0.40%

Sta. 3+90.00 Const. M.H. Top Elev. = 220.4 Inv. (S) = 205.5

Sta. 4+00.00 Sta. 2+00.00 Line 3 Const. Outlet Box Structure Top Elev. = 209.9

266.0 L.F. 60"x 38" H.E.C.P. @ 0.50%

Sta. 6+66.00 Const. Reinforced Conc. M.H. Top Elev. = 208.23

335.0 L.F. 60"x 38" H.E.C.P. @ 0.40%

Sta. 10+01.00 Sta. 7+01.00 Line 3 Const. Reinforced Conc. M.H. See Detail Sh. C-5 Top Elev. = 202.0

139.5 L.F. 53"x 34" H.E.C.P. @ 0.40%

Sta. 11+40.50 Const. Reinforced Conc. M.H. Top Elev. = 211.8

192.65 L.F. 53"x 34" H.E.C.P. @ 0.37.6%

Sta. 13+33.15 Const. Reinforced Conc. M.H. Top Elev. = 213.3

Sta. 11+03.15 Connect to Existing M.H. (Inlet) Top Elev. = 213

200 L.F. 53"x 34" H.E.C.P. @ 0.55%

Use Class III Sta. 3+66 Sta. 9+46

Existing Ground

Finished Grade

Line 2

Line 1

Encased Sanitary Sewer E = 199.50

USE Class III

Existing Ground

Finished Grade

Line 3

10.42.21 L.F. 24" R.C.P. @ 0.35%

180.0 L.F. 29" R.C.P. @ 0.30%

195.0 L.F. 18" R.C.P. @ 0.85%

Sta. 1+64.21 Const. Area Inlet Top Elev. = 209.05

Sta. 3+49.21 Const. Area Inlet See Detail Sh. C-5

Sta. 4+83.21 Const. Area Inlet See Detail Sh. C-5

Parallel New 38"x 36" C.M.P.A. With Exist. 38"x 36" C.M.P.A.

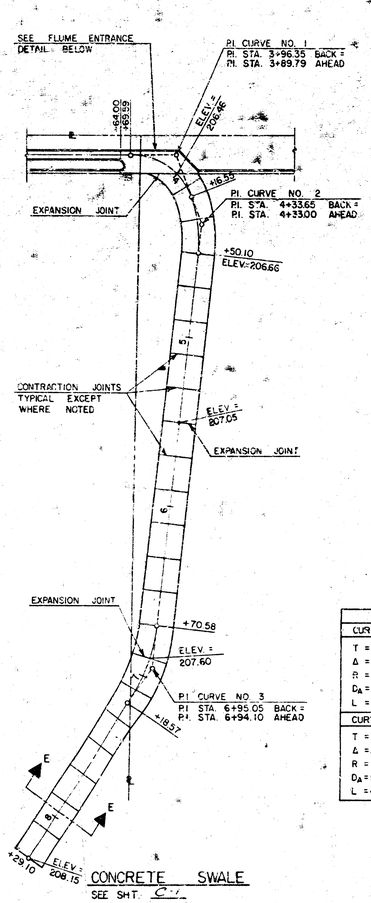
Exist. Ground

Exist. Pond Elev.

15" C.M.P.

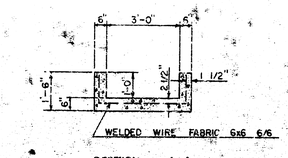
OUTLET

Sta. 1+00
Top. of Grate = 209.9
E in (E) = 199.78
E in (W) = 200.93
E out (N) = 199.99

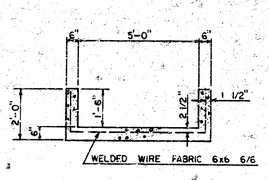


CONCRETE SWALE
SEE SHT. C-1

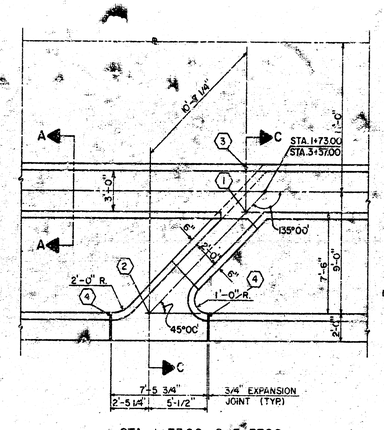
℄ CURVE DATA	
CURVE NO. 1	CURVE NO. 2
T = 26.76'	T = 17.10'
Δ = 68°40'00"	Δ = 27°20'12"
R = 39.19'	R = 70.32'
D_A = 146°12'54"	D_A = 81°29'01"
L = 46.96'	L = 33.50'
CURVE NO. 3	
T = 24.47'	
Δ = 27°29'48"	
R = 100.00'	
D_A = 57°17'45"	
L = 47.99'	



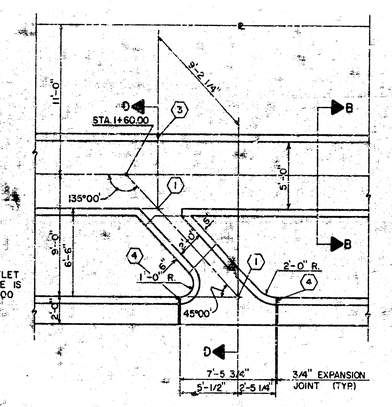
SECTION A-A



SECTION B-B

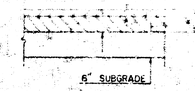


STA. 1+73.00 & 3+37.00
WEST OF OUTLET STRUCTURE

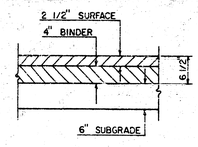


STA. 1+60.00 EAST OF
OUTLET STRUCTURE

PARKING LOT PAVEMENT
SURFACE - BITUMINOUS CONCRETE SURFACE COURSE, 1 1/2" COMPACTED THICKNESS
BASE - BITUMINOUS BASE COURSE, 3 1/2" COMPACTED THICKNESS
SUBGRADE - LIME TREATED SUBGRADE, 6" COMPACTED THICKNESS

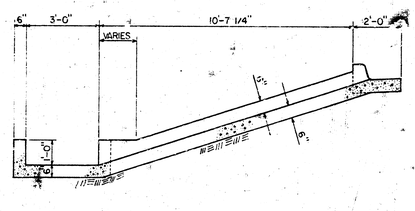


SERVICE DRIVE PAVEMENT
SURFACE - BITUMINOUS CONCRETE SURFACE COURSE, 2 1/2" COMPACTED THICKNESS
BASE - BITUMINOUS BASE COURSE, 4" COMPACTED THICKNESS
SUBGRADE - LIME TREATED SUBGRADE, 6" COMPACTED THICKNESS

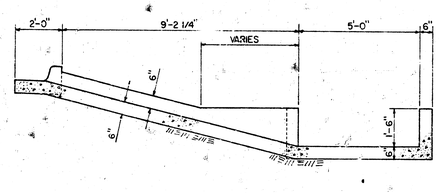


FLUME DETAILS
SEE SHT. C-1

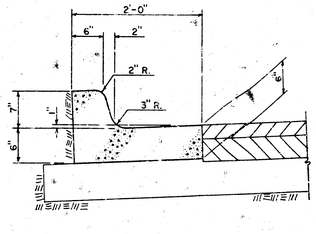
STA	PT. NO.	ELEV.
1+60.00 E	1	℄ 205.20
	2	℄ 205.75
	3	TC 206.70
	4	TC 209.25
1+73.00 W	1	℄ 205.27
	2	℄ 208.70
	3	TC 205.27
	4	TC 209.20
3+37.00 W	1	℄ 206.58
	2	℄ 206.90
	3	TC 207.58
	4	TC 207.10



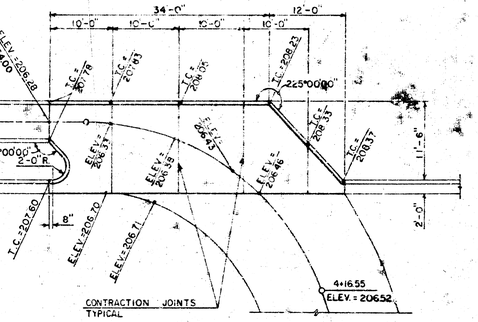
SECTION C-C



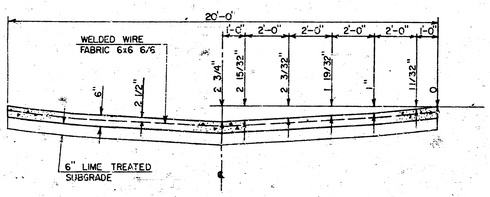
SECTION D-D



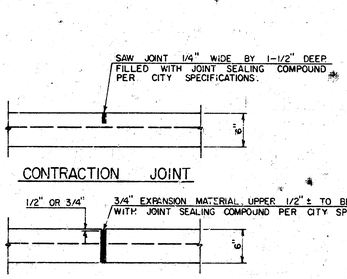
CURB AND GUTTER DETAIL



FLUME ENTRANCE
SEE SHT. C-1

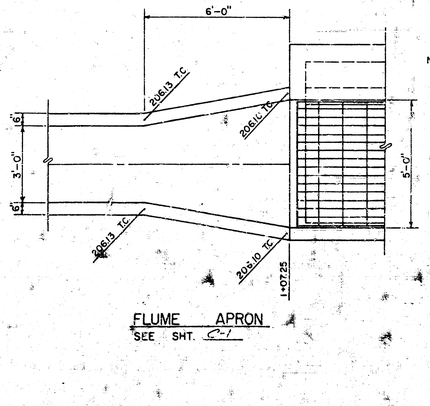


SECTION E-E
(TYPICAL)



CONTRACTION JOINT

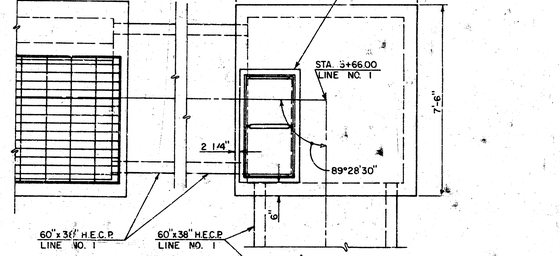
EXPANSION JOINT

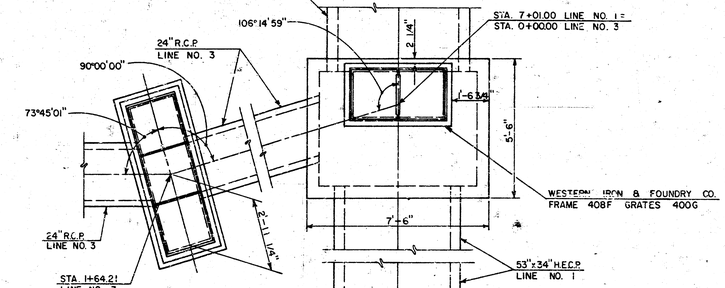


FLUME APRON
SEE SHT. C-1

NOTE:
FOR DETAILS RELATED TO OUTLET STRUCTURE SEE SHT. C-1

NOTE:
FOR DETAILS RELATED TO OUTLET STRUCTURE SEE SHT. C-1





EXPANSION JOINT DETAIL

Owner

Project
ONE STORY MERCANTILE BUILDING
N.E.C. 21st ST. NORTH & OLIVER

Object
MISCELLANEOUS DETAILS

Wah Yee Associates
Architects & Planners
2011 Northwestern Highway, Suite 416
Southfield, Michigan 48075

Cont.

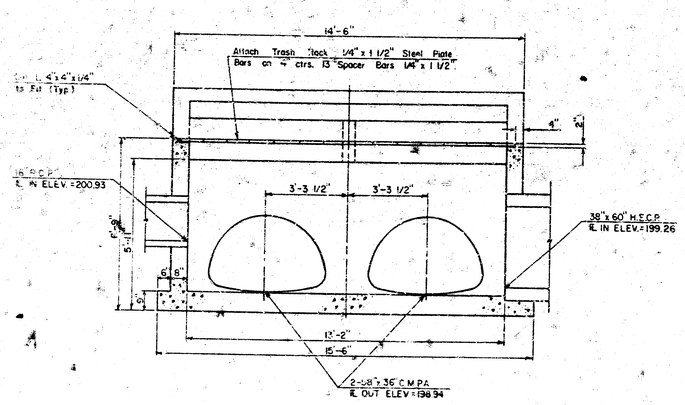
Approved

Date

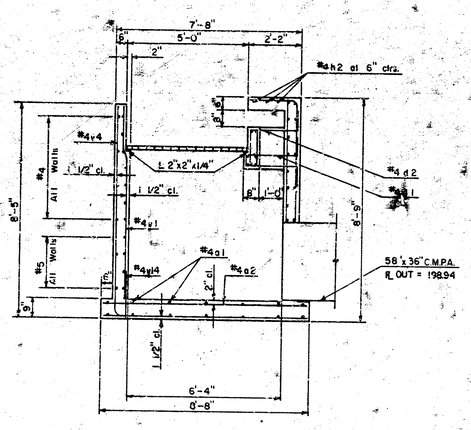
Do not scale prints.

QUANTITIES
105 cu yds concrete
1479.99 lbs. steel

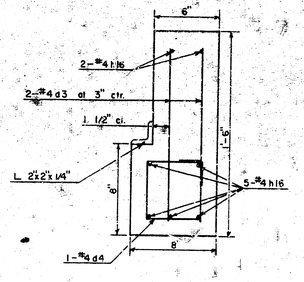
Mark	Size	No.	Length
a1	4	2	6'-5"
a2	4	2	6'-5"
b1	5	3	3'-3"
b2	4	24	5'-6"
b3	5	4	5'-6"
b4	4	1	4'-6"
b5	5	1	4'-0"
b6	4	1	4'-0"
b7	5	1	2'-9"
b8	5	1	4'-11"
h1	4	10	7'-5"
h2	4	25	14'-3"
h3	4	8	1'-11"
h4	5	6	14'-3"
h5	5	5	7'-5"
h6	4	6	2'-7"
h7	4	2	1'-0"
h8	5	2	7'-4"
h9	4	2	5'-0"
h10	5	1	3'-0"
h11	5	5	1'-8"
h12	4	2	3'-0"
h13	5	2	1'-11"
h14	5	2	3'-6"
h15	5	2	1'-4"
h16	4	7	15'-3"
v1	4	13	7'-6"
v2	4	10	7'-10"
v3	4	3	5'-9"
v4	4	13	9'-11 1/2"
v5	4	18	4'-9 1/2"
v6	4	10	12'-1 1/2"
v7	4	4	7'-2"
v8	4	6	6'-7"
v9	4	4	7'-11"
v10	4	6	4'-8"
v11	4	6	2'-0"
v12	4	3	6'-3 1/2"
v13	4	3	2'-3"
v14	4	26	1'-9"
v15	4	5	4'-1 1/2"
v16	4	2	2'-2"
v17	4	6	1'-8"
v18	4	2	4'-4"
v19	4	2	3'-0 1/2"
c1	4	4	17'-7 1/2"
c2	4	4	6'-6"
c3	4	4	9'-3 1/2"
c4	4	2	9'-1 1/2"
d1	4	2	5'-7"
d2	4	2	2'-11"
d3	4	4	1'-3"
d4	4	2	2'-0"

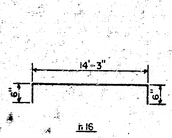


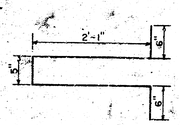
SECTION A-A

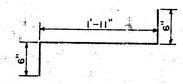


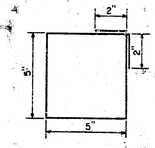
SECTION B-B

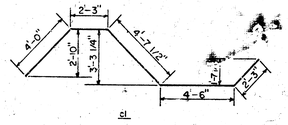


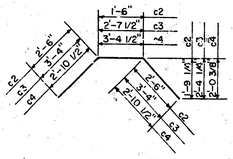


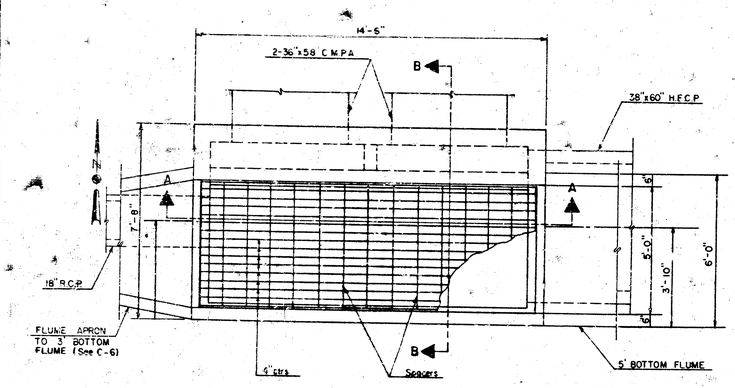




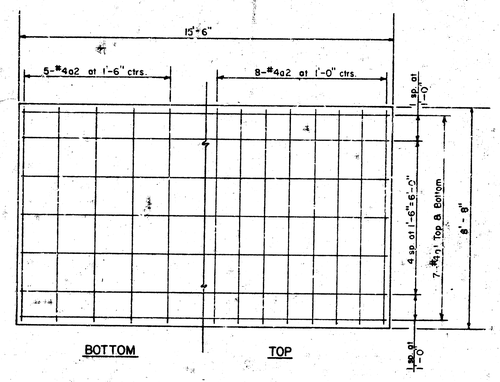




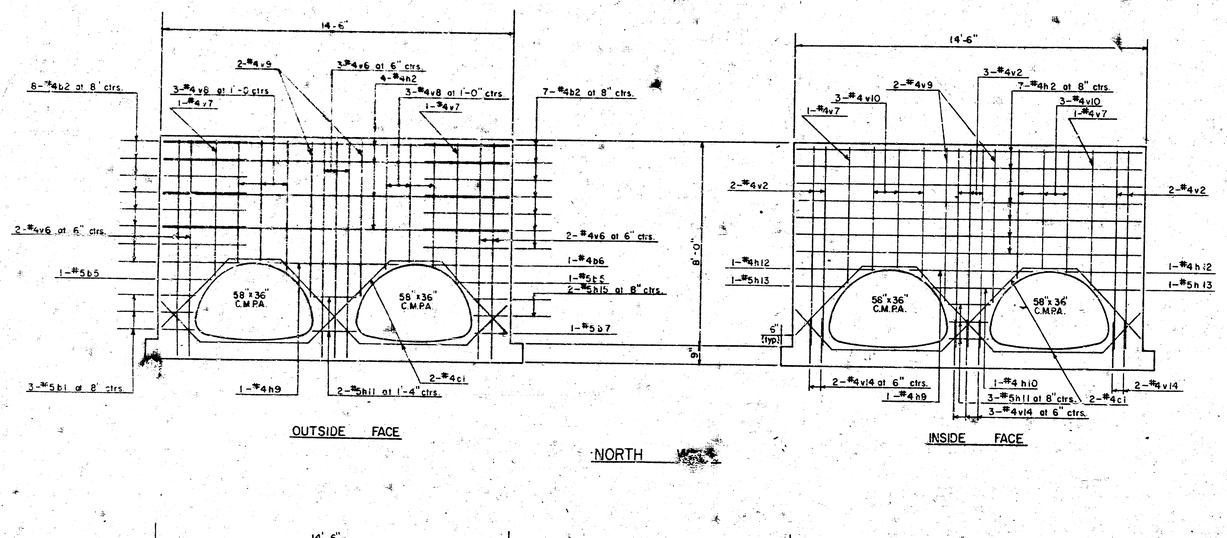




PLAN



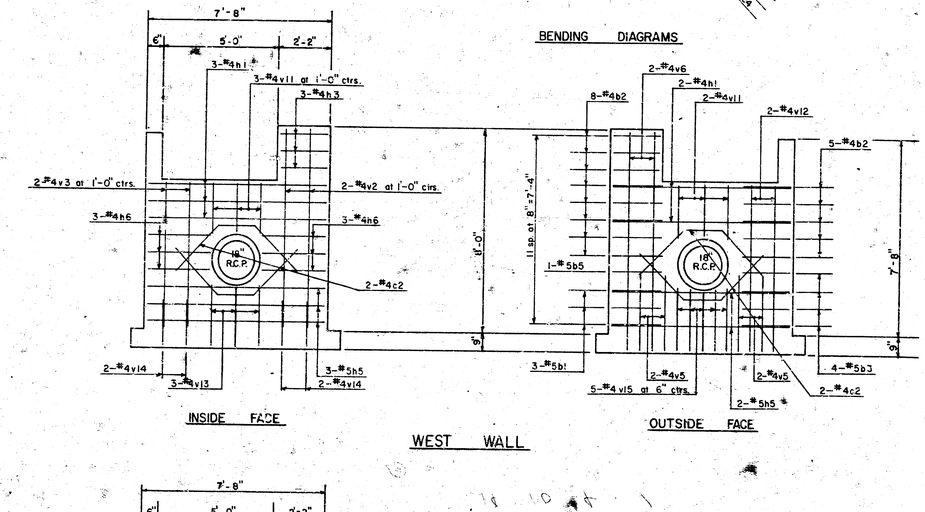
FLOOR



OUTSIDE FACE

NORTH

INSIDE FACE



INSIDE FACE

OUTSIDE FACE

WEST WALL

BENDING DIAGRAMS

