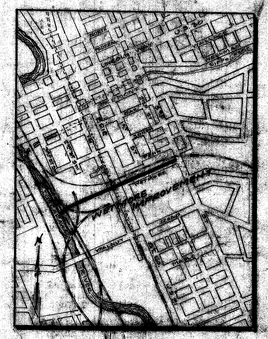
WETMORE CREEK IMPROVEMENT

MASSILLON OHIO



Two water lines on Erie St. So.: 6" gravity line between curb and walk on West side. 6" C.I. approx. 3' east of west curb. data from O.W.S. Co.

Note: Build Syphon on 24" San Trunk Sewer see details on sheets # 4

Storm Sewer Detail See Sheet #6

Replace 4" Conc. Walk Item #26 and new Conc. Curb Item 10-D Headwall 7' Wide same elev. as side Walls see profile

SEE SHEET #1

Headwall Connect 12" V.S.P. to Conc. Sewer

Lot # 9379

Conc. Apron

Replace 4" Conc. Walk Item #26 and new Conc. Curb Item 10-D

Connect 12" V.S.P. to Conc. Sewer

Beginning of Guard rail 11+70 Connect 12" V.S.P. to Concrete Sewer

c.b.

Fence

O.L. 40

Fill behind wall, use excess from Covered Section, paid under Item 10-D both for north and south sides.

No Guard rail on North side

New Conc. Wall

Lot # 9378

℄ Present Bank (North) of Wetmore Creek

℄ STREET LINE

Stone Wall

℄ New Conc. Wall

℄ Present Bank (South) of Wetmore Creek

New conc. to meet existing Stone walls

WETMORE GREEN

Traverse Line

WETMORE AVE SE 60.0 WIDE

2" Gas Line

4" Gas Line

1" STREET LINE

OL 42

OL 41

OL 45

Bottom paved with stone under Bridge

Lot # 9379

Lot # 9380

Stone wall ok.

Stone Wall

4" Conc. Walk Item #26

Stone wall on south side from West of Bell Line to 3rd St. SE O.K. to use as is, will have to be pointed up in places as directed by City agent, also spots might have to be relaid to be paid under Item # 11 B - Concrete to pe wall to bring it to grade See detail on Sheet #5

30' foot gap in guard rail

4" Conc. Apron paid under Item #26

New curb (Conc) from RR to Existing C.B. remove old plank walk rebuild with conc. slab sloping ½" per foot towards street, build new 6" x 4" walk from culvert to Wetmore, Build steel hand railing, See detail sheet #5

Special C.B. Item 1-D 64 V.S.P. 12" 0.5 L.F. change to 2 Conduits 6" V.S.P. for plank walk. C.B. see sheet #5 for details of 3 special Bid under Item 12-C

15" V.S.P. 0.5 Item 1-C

Special C.B. Item 1-D

End of Guard rail at side walk. on 3rd Street SE.

Pavement replacement Item #25, see sheet #6

3rd ST. SE. Brick Pavement

ERIE ST. 30' 80' WIDE

Car Tracks

Brick Pavement

Curb Line

Walk

Stone Wall

Stone Walk

Sm. Box

Steel Wall

Special C.B. Item 1-D Not to scale

Special C.B. Item 12-C Not to scale

Gutter 2.2%

Brick Pavement

TYPICAL COVERED SECTION

Scale 1" = 3 FT.

Detail of Expansion Joint on Sh. # 5

50.3125 sq. ft. per lin. ft.

1.863 cu. yds. per lin. ft.

Concrete: paid under Item # 10-D, shall include, excavation, sheathing shoring, forms, reinforcing, cement, sand, gravel, backfilling, puddling and tamping where needed, in road. Sewer to be complete in place. 2¼" Brick invert paid under Item # 2-D. Class No. 1 Concrete.

Note: Conc. walls on each side of 54" Brick Sewers from MH @ 11+15 to curb Line 11+40

SPECIAL SECTION UNDER RAILROADS

Scale 1" = 3 FT.

No Expansion joints allowed in this section

TYPICAL OPEN SECTION

Scale 1" = 3 FT.

Detail of expansion joint on sheet # 5

NORTH SIDE

SOUTH SIDE

Ground Elev.

See X Sections Fill:- paid Under Item 10-D

No Coping

Symmetrical on each side

Height of walls variable depending on ground Elev. see Elev. on X-Sections

All longitudinal bars ⅝" ℄ spaced as shown

2½" Paving Brick Item 2-D

Conc. Item # 10-D Class No. 1

Guard Rail see detail on Sheet # 5 Item # 12

Slope to read ½" per ft.

See X-Sections Fill paid under Item 10-D

Wall thickness at bottom depends on height

Note: Contractor has to make arrangements for disposal of excess excavation.

Pipe railing Item # 23

108.7 Gutter El. at ℄ of Creek

Top of Girder 107.0

Bottom of Girder 105.4

Steel Girders

Top Stone Abut. South Side 100.72 North Side 100.94

Grade of Roadway

El. 98.0 Top of Conc. Wall see X-Sections

℄ Grade of Roadway

El. 95.0

Top of Conc. Wall

Grade of Roadway

El. 93.0 Elev. of side walls and head wall

Existing Headwall, remove and build new Headwall

Face of new headwall 11+58 (Same as old)

Conc. Apron remove

Present Bottom of Creek

Grade of Bottom 1.58% Grade

Conc. Box CULVERT @ 0.44% Grade

Existing 54" 2 Ring Brick Sewer Remove

24" San Trunk Sewer will have to build siphon See Sheet # 4

Break in Grade El. 79.42

℄ Flow line

Siphon to be built see page # 4

0.6 C.I.P. North

10" V.S.P. North

12" C.I.P. South

10" V.S.P. South

24" V.S.P. So.

El. 37.42

Paved Under roadway and Railroad Tracks.

Stone Bottom

Use gravel refill Item # 17

See Sheet # 1

100 95 90 85 80

10 11 000 12 13 14 15 16 17 18 19 20 21 22 23

88.58 84.16 85.74 87.32 88.90 90.48 92.06 93.64 95.22 96.80 97.35

110 105 100 95 90

CITY OF MASSILLON, OHIO

WETMORE CREEK IMPROVEMENT

FROM TUSCARAWAS RIVER TO 3RD ST. SE.

Approved C.E. Reed City Engineer

Dept. of Public Service Engineering Division

Dr. by G.C.W. & T.R. Scale 1"=50' Hor. 1"=5' Ver. Sept. 28th 1936

Sh. 2 / 12

File No. SE 3381 Acc. No. 11415

PROFILE SURVEYED PLOTTED NOTE BOOK GRADES CHECKED BY M.J.F. NOTED STRUCTURE NOTES ON SH. NO.

PLAN SURVEYED PLOTTED NOTE BOOK ELEVATIONS CHECKED BY M.J.F. NOTED NO.

DATE BY

6" Water Main 5ft West of East curb of 18th St SW. Data from O.W.S.Co.
3" " " on East side of 18th St. SW. " " "

Note: This building has to be underpinned to protect the walls etc., the concrete floor can be removed and replaced with new 6" conc. floor; same item as 6" concrete sidewalks. Limits of new conc. floor will be decided by City Eng. or agent. Contractor will be held responsible for any damage done to walls, roof or appurtenance of building.

TUSCARAWAS RIVER

O.L. 28 W. & L.E. RR.

O.L. 29 W. & L.E. RR

O.L. 30 P.Ft.W. & C. RR.

O.L. 31 MASSILLON ALUMINUN Co.

O.L. 36 P.Ft.W. & C. RR

O.L. 32 W. & L.E. RR.

Shed

Brick Bldg.

Frame Garage

Brick & Frame

Main Building Brick & Conc.

Old Power House Brick

Brick Bldg.

Hedge

Abandoned Siding

Penn RR Overhead Bridge

Trav. Crane

Trav. Crane

Trav. Crane

Tusc. Trunk Sewer 49'8 6.2% Grade

Headwall See detail on Sheet #5

Conc. Apron See detail on Sheet #5

Traverse Line

Center Line of Track

Main Line

Ø Pole

Ø Guy Stand

Ø Gate

Ø Switch Stand

Ø Signal

Ø Signal Bridge

Ø Water Valve

Ø Gas Valve

Ø Manhole

Ø Catch Basin

Ø Inlet

Ø Gas Regulator House

Ø Gas Meter

Ø Gas Valve Box

Ø Gas Valve Pit

Ø Gas Blow Off

Ø Gas Drip

Ø Gas Line Marker

Ø Gas Test Station

Ø Gas Line Valve

Ø Gas Line Valve Box

Ø Gas Line Valve Pit

Ø Gas Line Blow Off

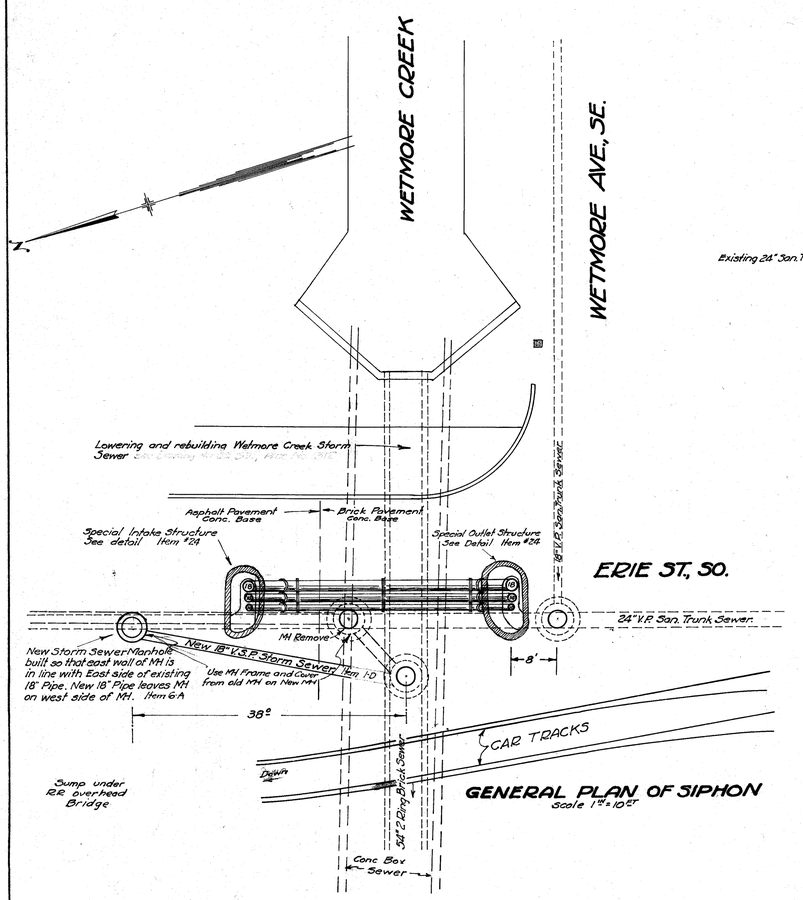
Ø Gas Line Drip

Ø Gas Line Test Station

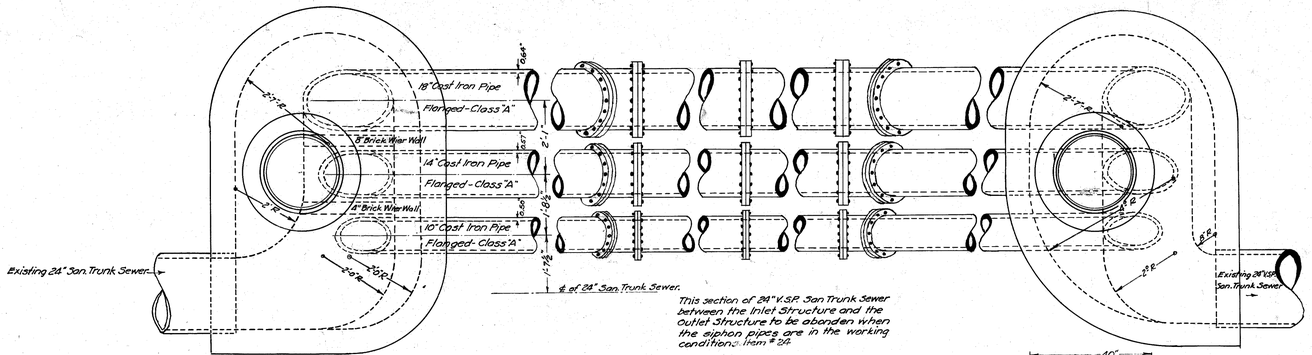
Ø Gas Line Marker

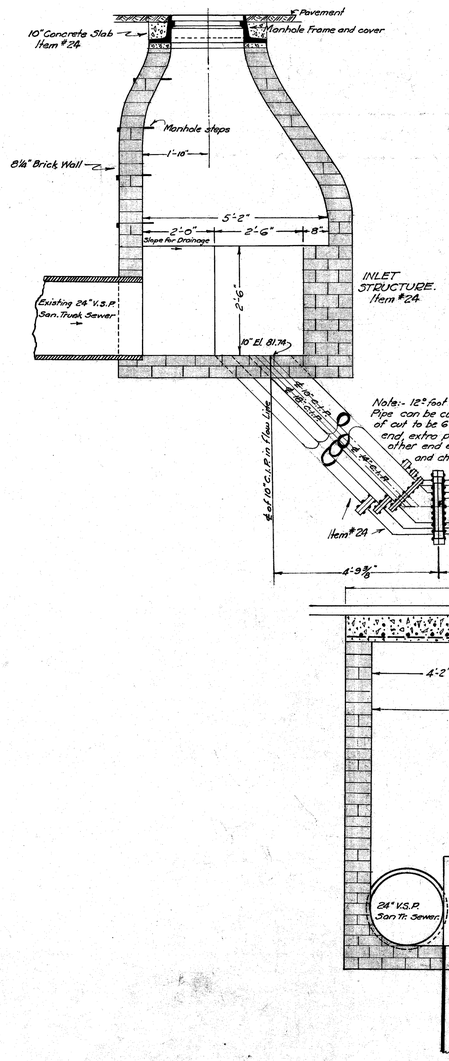
Ø Gas Line Regulator House

Ø Gas Line Meter

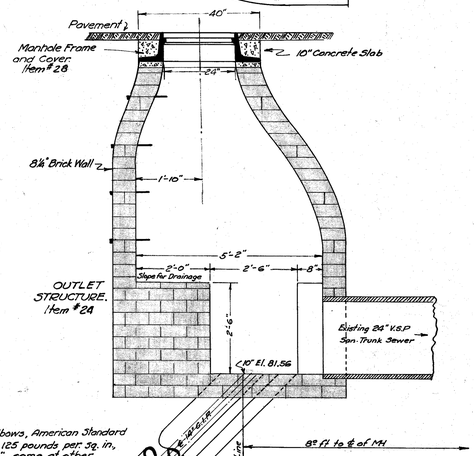


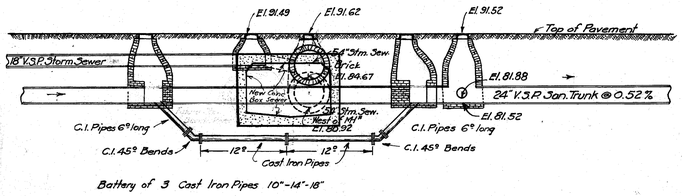
GENERAL PLAN OF SIPHON
Scale 1"=10'





DETAILS OF INLET AND OUTLET STRUCTURES, AND THE CAST IRON SIPHON PIPES
Scale 1"=2'





SECTIONAL VIEW ALONG 24" SAN. TRUNK SEWER
Scale 1"=10'

GENERAL NOTES.

Cast Iron Pipe to be class "A", Standard Flanged Pipe, Fittings to be, American Standard Flanged Fittings 125 lbs. per square inch.

Elevations are taken from field and are calculated for points between MH's, so elevations will have to be checked when structures are uncovered.

BM: Hydrant S.E corner of Erie St, So and Wetmore Ave SE., Elev. 93.15

X-SECTION OF INLET AND OUTLET STRUCTURES
Scale 1"=2'

Siphon to be paid under Item # 24 - 1-No Complete, price shall include excavation, Brick masonry, 10" slab (conc.) top, manhole frame and cover, cast iron steps, cast iron pipe and fittings, backfilling, tamping, sheathing (except left in place) maintaining traffic, in other words complete, Pavement replacement will be paid under Item # 25

Approved by State Board of Health March 18 1938

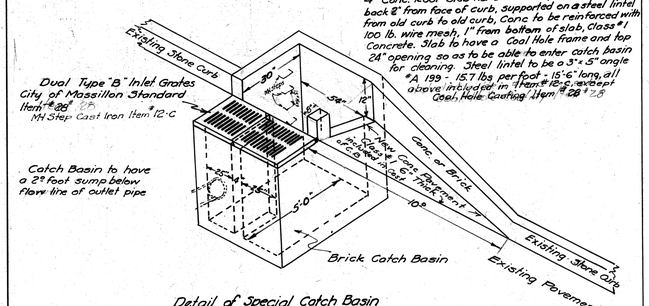
4/12

CITY OF MASSILLON, OHIO.

SIPHON UNDER WETMORE CREEK AT ERIE ST, SO.
24" VIT. PIPE SANITARY TRUNK SEWER

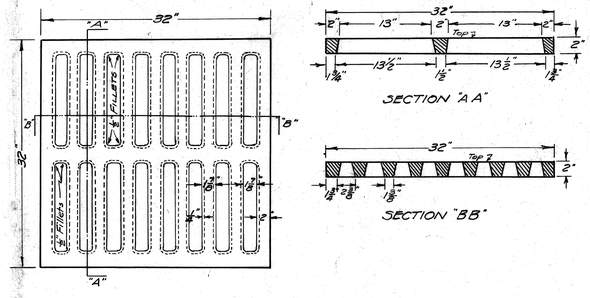
APPROVED CITY ENGINEER		DEPT. OF PUBLIC SERVICE ENGINEERING DIVISION
Drby Geo. Wallace Ck by	Feb 11 1937	Scale as noted.

FILE NO SE 381 - ACC. NO 1416 '16

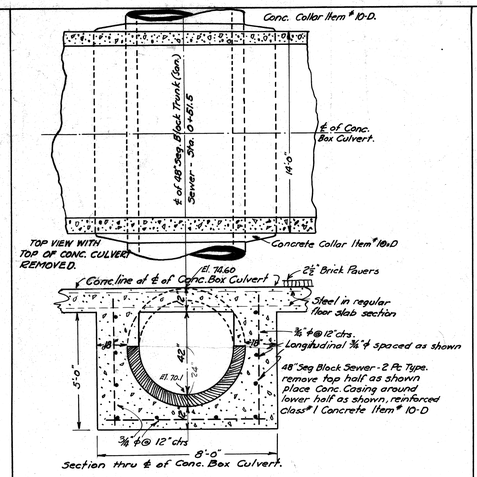


4" Conc. Roof Slab not shown on plan, slab setting back 2" from face of curb, supported on a steel lintel from old curb to old curb, Conc to be reinforced with 100 lb. wire mesh, 1" from bottom of slab, Class #1 Concrete. Slab to have a Coal Hole frame and top 24" opening so as to be able to enter catch basin for cleaning. Steel lintel to be a 3"x 5" angle #A 199 - 15.7 lbs. per foot x 15'-6" long, all above included in Item # 12-C except Coal Hole Casting Item # 28 # 7.8

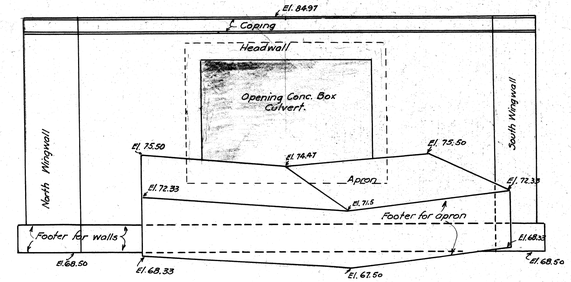
Detail of Special Catch Basin
Not to Scale
Item # 12-C — Bid Complete.



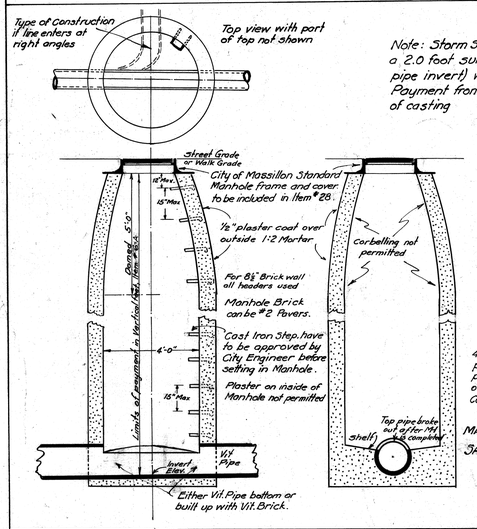
CITY OF MASSILLON STANDARD
TYPE "B" INLET GRATE
CAST IRON
WEIGHT 300 LBS.
Item # 28



DETAIL OF SAN. SEWER CASING ON TUSCARAWAS TRUNK AT STA 0+51.5
Not to Scale.



FRONT VIEW OF HEADWALL AND APRON
Scale 1"= 5'

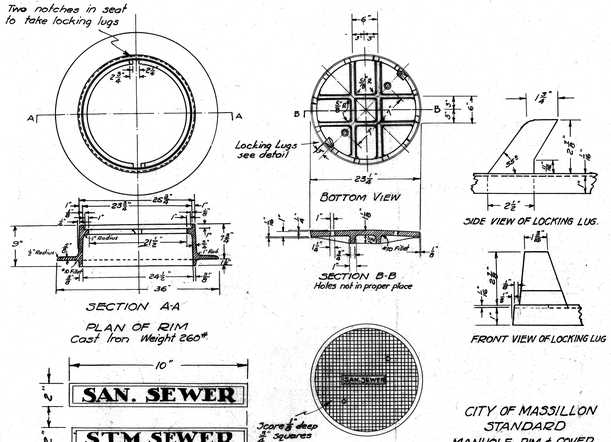


Note: Storm Sewer Manhole to have a 2.0 foot sump (bottom 2.0 feet below pipe invert) where shown on plans. Payment from bottom of sump to bottom of casting

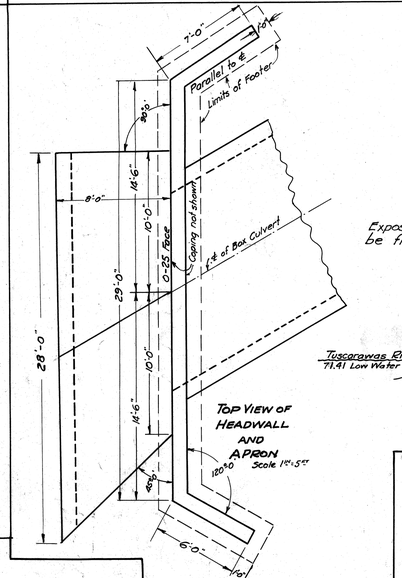
Table of Wall Thickness	
Manhole Depth	Brick
From 0 to 16 feet	8½ inch
From 16ft to 22 feet	13 inches
Below 22 feet	18 inches

4.0 feet of pipe deducted when pipe goes thru a manhole; all pipe measured to inside wall of manhole. Cast iron steps to be included in Item # 6A

MASSILLON STANDARD
SAN. & STM. SEWER MANHOLES
Scale 1"= 3'ST
Item # 6-A

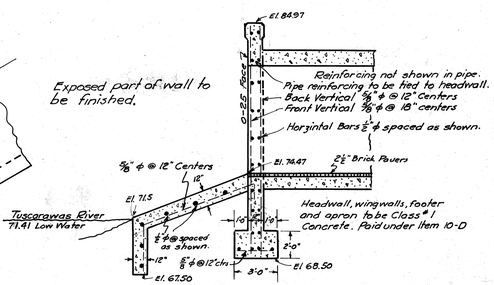


CITY OF MASSILLON STANDARD MANHOLE RIM & COVER
Not to scale
Item # 28

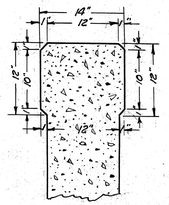


DETAILS OF HEADWALL AND APRON AT STA. 0-25

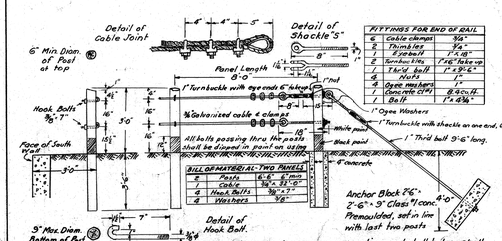
Exposed part of wall to be finished.



SECTION THRU ℄
Scale 1"= 5'ST



COPING SECTION
Reinforcing not shown
Scale 1"= 1'ST

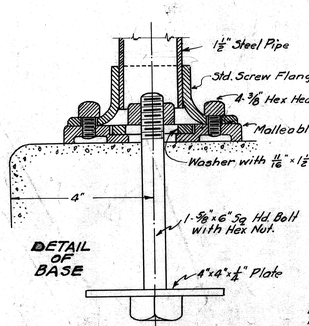


FITTINGS FOR END OF RAIL		
6	Cable clamps	⅜"
2	Thimbles	¾"
1	⅝" bolt	1"-4 ½
2	Turnbuckles	1"-6" take up
1	Thrd. bolt	1"-1'-6"
6	Nuts	1"
4	Open washers	1"
1	Concrete CIW	8"x8"x14
1	Bolt	1"-4'-9"

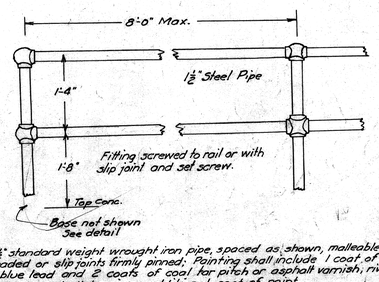
BILL OF MATERIAL - TWO PANELS		
2	Posts	6" x 6" x 7'-6"
1	Cable	¾" x 33'-0"
4	Hook Bolts	⅝"-4'-7"
4	Washers	3½"

All exposed surfaces, not galvanized, to have 3 coats white lead and linseed oil paint. All surfaces in contact, not galvanized, shall receive one coat of above paint before construction. Post to be of straight sound chestnut, white oak, yellow locust, white or red cedar, 6" minimum diameter, round post, creosoted by dipping the lower 4'-6". All iron and steel to be galvanized except cast iron. Payment for this under lin feet Item # 22, limits of payment from end guard rail post to end guard rail post.

CITY OF MASSILLON STANDARD GUARD RAIL
Not To Scale.
Item # 22

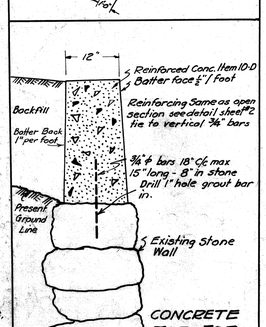


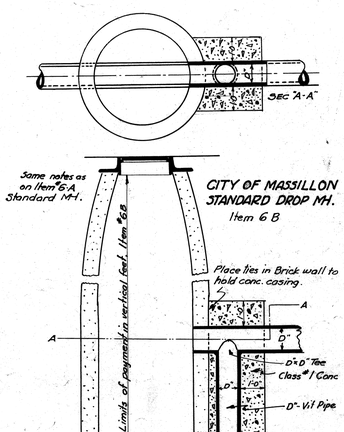
DETAIL OF BASE



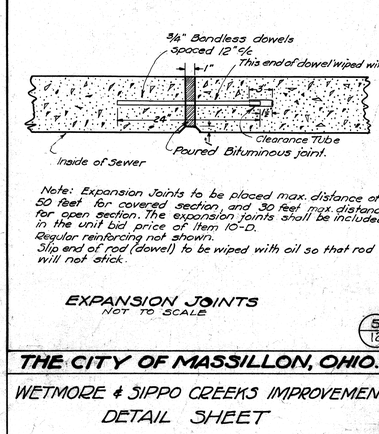
Rails shall be 1½" standard weight wrought iron pipe, spaced as shown, malleable iron fittings, threaded or slip joints firmly pinned; Painting shall include 1 coat of red or sublimed blue lead and 2 coats of coal tar pitch or asphalt varnish, rivets, bolt heads and all edges shall be given additional coat of paint. Payment under Item # 23 per lin. foot shall be complete.

CITY OF MASSILLON STANDARD PIPE RAILING
Not to Scale
Item # 23





CITY OF MASSILLON STANDARD DROP MH.
Item 6 B



Note: Expansion Joints to be placed max. distance of 50 feet for covered section and 30 feet max. distance for open section. The expansion joints shall be included in the unit bid price of Item 10-D. Regular reinforcing not shown. Slip end of rod (dowel) to be wiped with oil so that rod will not stick.

EXPANSION JOINTS
NOT TO SCALE

5/12

THE CITY OF MASSILLON, OHIO.

WETMORE & SIPPO CREEKS IMPROVEMENT
DETAIL SHEET

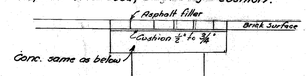
APPROVED C.E. Rice CITY ENGINEER
DEPT OF PUBLIC SERVICE ENGINEERING DIVISION
Dr. by Geo. C. Weller
Scale as noted.

FILE NO. SE 381 ACC. NO. 14117

PAVEMENT REPLACEMENT
Item #25

BRICK PAVEMENT

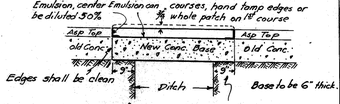
Use the old Brick when possible, no bats
Asphalt filler used, 3/4" #7 slag cushion.



ASPHALT PAVEMENT

Paint edges 1st with Asphalt Emulsion, center Emulsion can be diluted 30%

T 60 Top - rolled in two courses, hand tamp edges or whole patch on 1st course



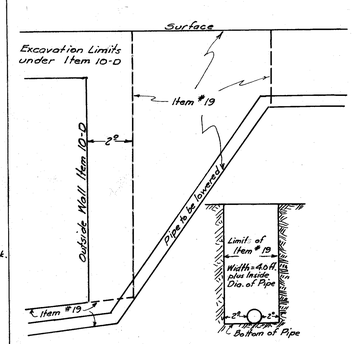
Conc. Base Class #1, 1:2:4 Mix use 2lbs Ca.Cl. per bag of cement, for quick setting, keep traffic off and dont cover top for 48 hrs. Protect from hot sun - don't pour when below 40° F.

Make new base 9" wider than ditch all sides

New base to be put in regardless whether existing pavement has base or not.

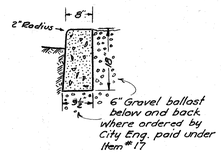
Payment to be under Item # 25 either Brick or Asphalt. Shall be measured from amf. put in, MHs and Catch Basins will be deducted.

SPECIAL EXCAVATION DETAIL
Item # 19



Note to Contractor: Contractor will dig ditch for lowering Public Utility lines. Utilities will furnish and relay new lines to grade, contractor will backfill, puddle and tamp where needed to dispose of surplus material, this will be paid under Item # 19. price per cubic yard special excavation. Contractor will replace pavement or walks, paid under these Items.

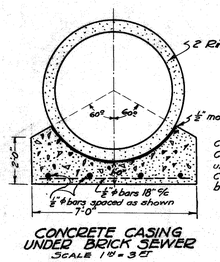
City has tried to get the location of all utility lines but cannot guarantee either no. or location.



6 sacks cement per cu.yd. of finished work. Slag (crushed) or stone for course aggregate, clean washed sand for fine aggregate. Steel forms. curbing to be cured by keeping covered for three days. Will be paid under Item #10-D, complete in place.

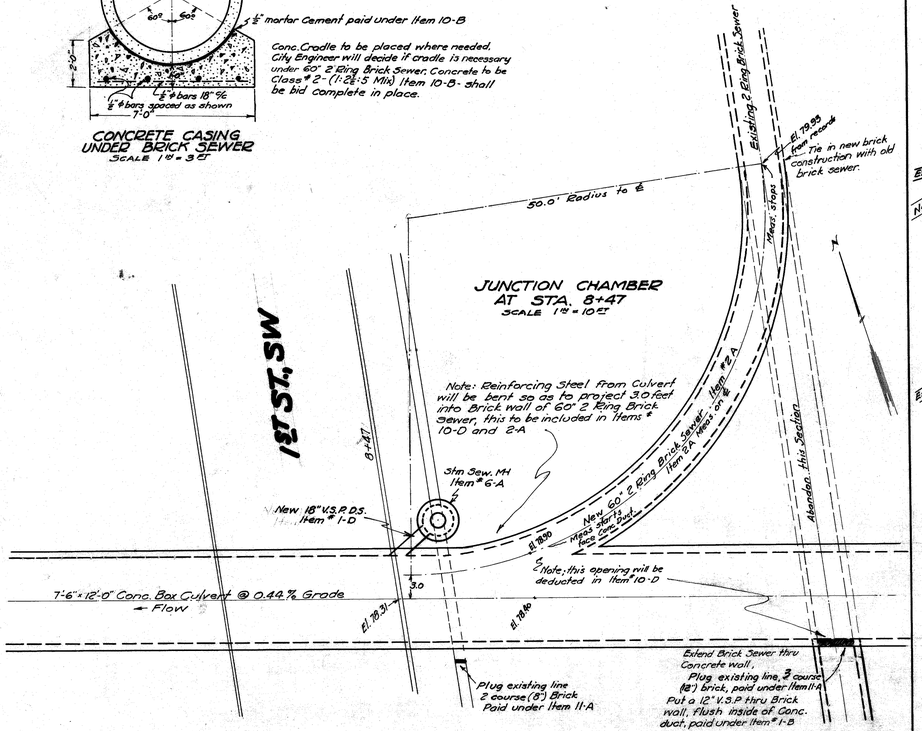
0.03515 cu.yds. per lin. foot.

CITY OF MASSILLON STANDARD CONC. CURB.
NOT TO SCALE.

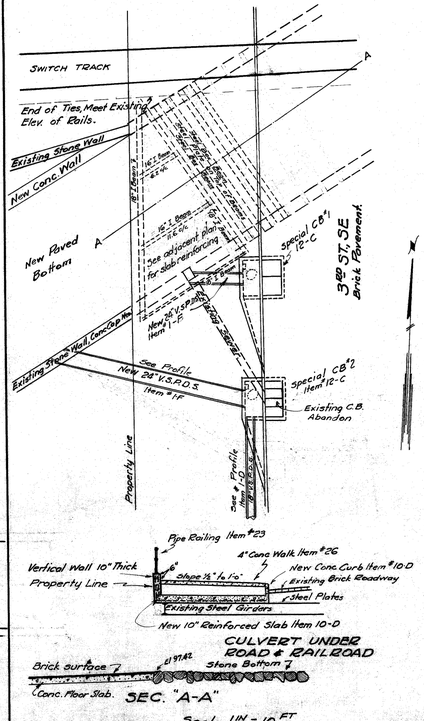


CONCRETE CASING UNDED BRICK SEWER
SCALE 1" = 3'-0"

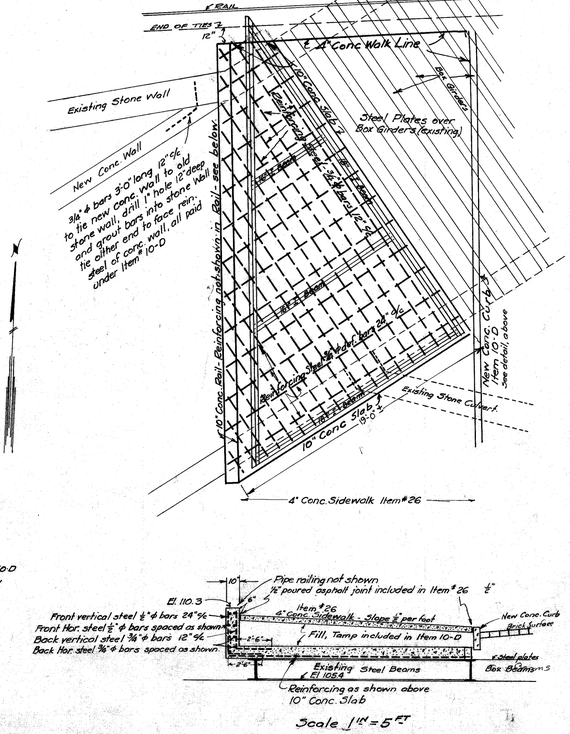
Conc. Cradle to be placed where needed. City Engineer will decide if cradle is necessary under 60" 2 Ring Brick Sewer. Concrete to be Class # 2 - (1:2½:5 Mix) Item 10-B - shall be bid complete in place.



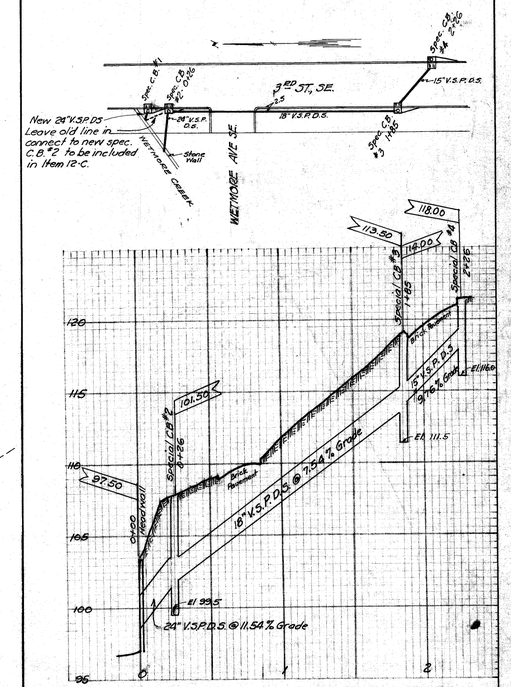
DETAIL OF FLOOR SLAB OVER WETMORE CREEK AT 3RD ST.



CULVERT UNDER ROAD & RAILROAD
SEC. "A-A"
Scale 1" = 10 FT



Scale 1" = 5 FT



DETAIL OF STORM SEWER 3RD AND WETMORE

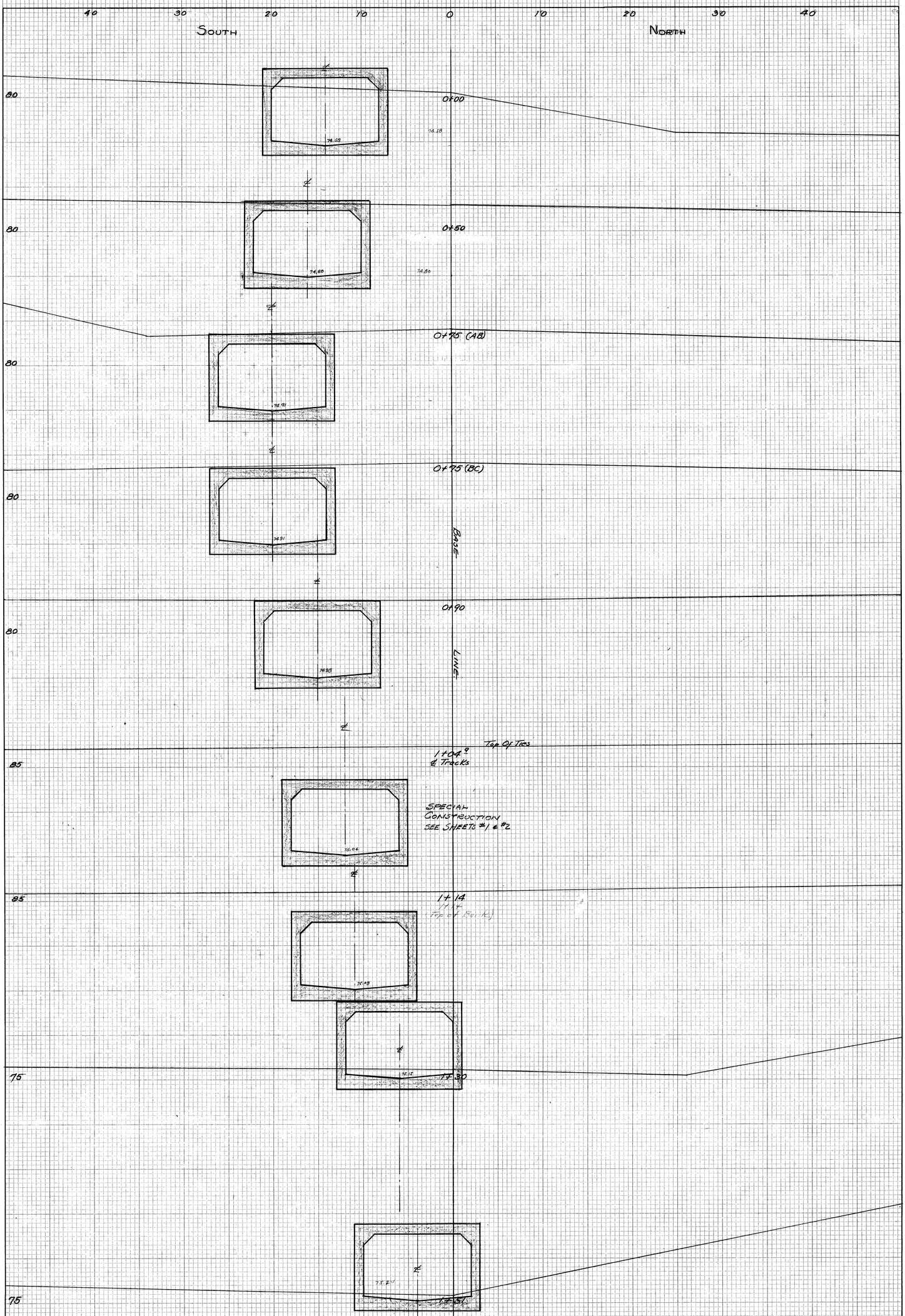
6/12

THE CITY OF MASSILLON, OHIO

WETMORE & SIPPO CREEKS IMPROVEMENT
DETAIL SHEET

APPROVED C.O. Rice CITY ENGINEER	DEPT. OF PUBLIC SERVICE ENGINEERING DIVISION
By Geo. C. Wallace	Scale as noted

FILE No. SE. 281 ACC. No. 11283



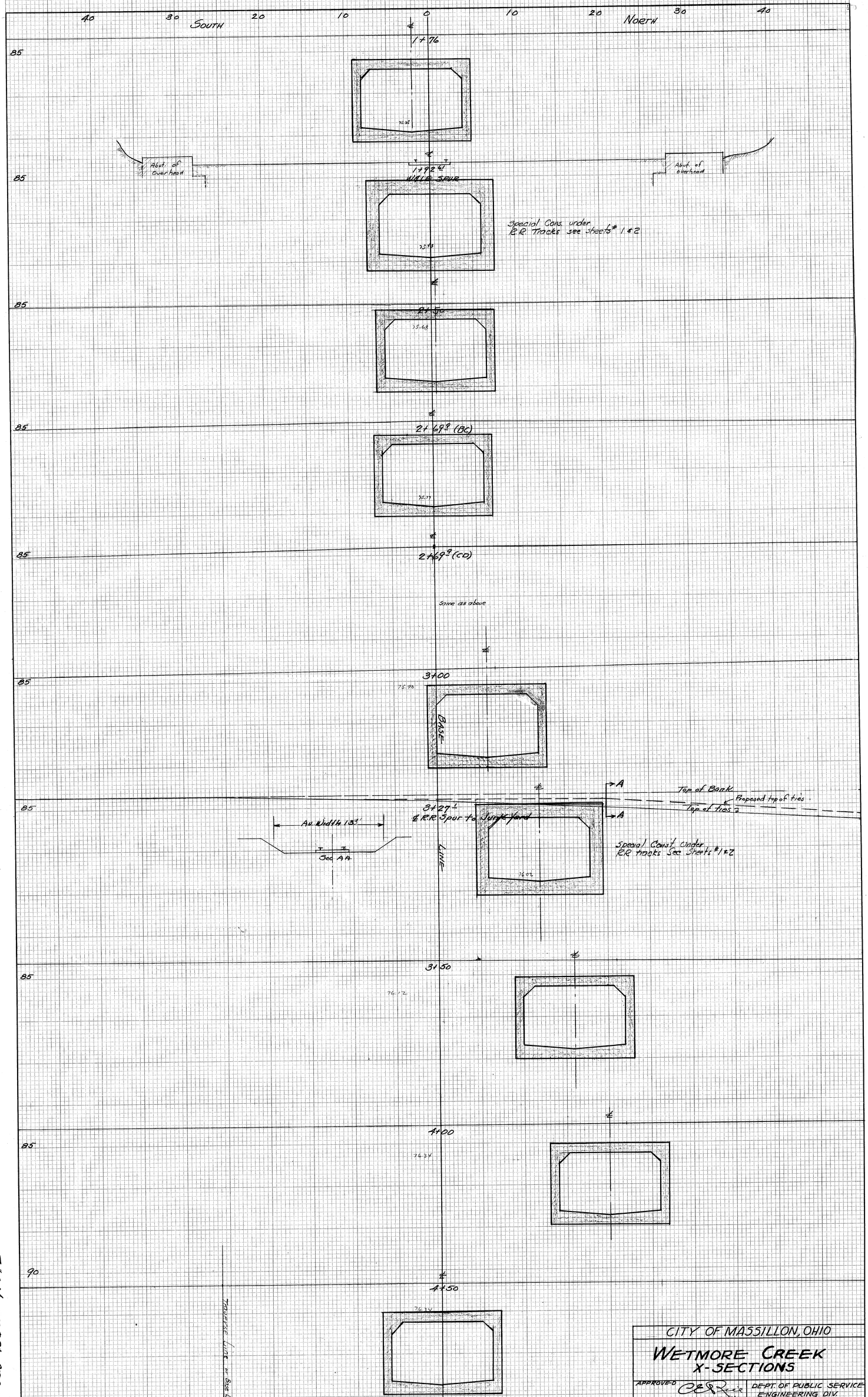
CITY OF MASSILLON, OHIO

WETMORE CREEK X-SECTIONS

APPROVED CITY ENGR.		DEPT. OF PUBLIC SERVICE ENGINEERING DIVISION	
Plotted - T.E.R. Computed -	Scale 1"=50'	9-23-38	NO. 141 - P 29 NO. 141 - P 11

7/12

FILE: MO. SE. 381 / RECONSTRUCTION



CITY OF MASSILLON, OHIO

WETMORE CREEK X-SECTIONS

APPROVED C.E. Rice CITY ENGR		DEPT. OF PUBLIC SERVICE ENGINEERING DIV.
Plotted: TER	8-23-38	Scale: 1"=5'
Computed:		N.B. 141: P29 N.B. 141: P11

8/12

2

FILE No. SE 381 ACC. No. 14720

CITY OF MASSILLON, OHIO

WETMORE CREEK
X-SECTIONS

APPROVED [illegible] CITY ENGR.

DEPT. OF PUBLIC SERVICE ENGINEERING DIV.

Plotted: 7-6-12
Computed: 9-23-38

Scale: 1"=5'

MB 141, P28
MB 141, P11

Ø

40 30 20 10 0 NORTH

10 20 30 40 SOUTH

90 90 90 90 90 90 90 90 90 90

0 5+50 6+00 6+42.25 7+00 7+70 8+46.25 9+00

Approx. (CD) Flow Line

Flow Line Extra Fields

Base Line

Old Brick Ditch

Power Pole

Fence Row

Beech Street

60" & 84" Brick Sewer Proj.

N 77

N 80

N 72

N 71

N 68

N 78

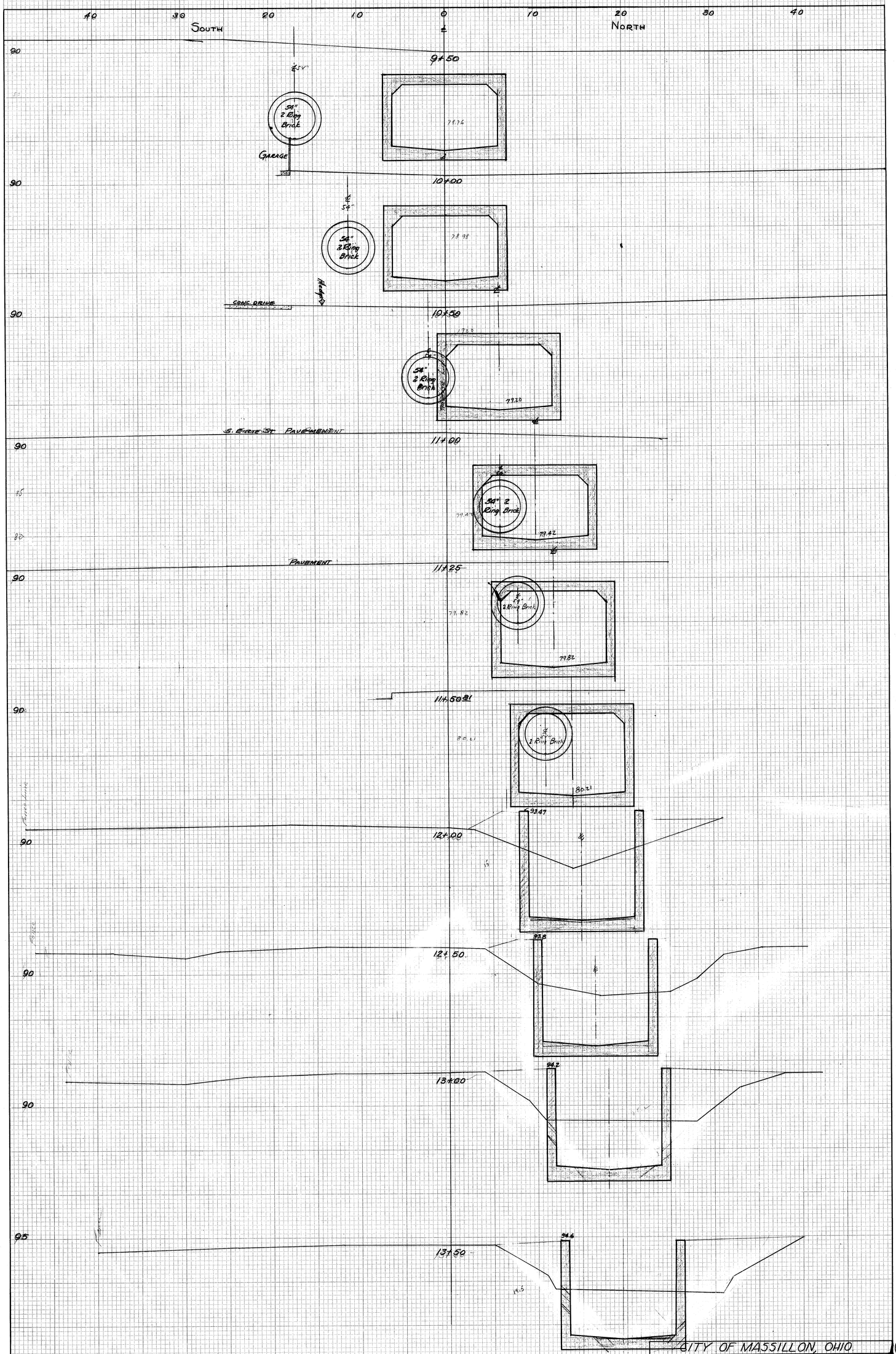
N 78.5

N 78.5

N 80

N 78.5

FILE No. SE-381 Acc No. 18821



CITY OF MASSILLON, OHIO.

10/12

WETMORE CREEK X-SECTIONS

APPROVED C.E. Beer CITY ENGR		DEPT. OF PUBLIC SERVICE ENGINEERING DIV.	
Plotted T.E.R. Computed	9-23-38	SCALE 1"=5'	NB 141-P.29 NB 181-P.11

FILE: No. SEE BOX ACC'NO 1482

4

WETMORE CREEK
X-SECTIONS

CITY OF MASSILLON, OHIO

APPROVED C.E. Rich CITY ENGR.

DEPT. OF PUBLIC SERVICE
ENGINEERING DIV.

PLOTTED: TER
COMPUTED: 9-25-38

Scale: 1"=5'

NO 141 - P29
NO 141 - P11

11/12

NORTH

SOUTH

BASE LINE

14+00
14+50
15+07
15+50
16+00
16+50
17+00
17+50
18+00
18+54
19+00

FILE NO SE 381 - ACC NO. 1423

WESTMORE CREEK
X-SECTIONS

CITY OF MASSILLON, OHIO

APPROVED: [illegible]

DEPT. OF PUBLIC SERVICE
ENGINEERING DIV.

PLOTTED: TEK 9-29-88
COMPUTED:

Scale: 1"=5'

VOL 141 - PAGE
VOL 141 - PAGE

11/12

NORTH

SOUTH

BASE LINE

142+00 ℄

143+55 ℄

151+00 ℄

154+50 ℄

164+00 ℄

164+50 ℄

174+00 ℄

174+50 ℄

181+00 ℄

181+65.75 ℄

191+00 ℄

FILE NO 98-381 - ACCT NO. 10123

CITY OF MASSILLON, OHIO

WETMORE CREEK
X-SECTIONS

APPROVED _____ DEPT. OF PUBLIC SERVICE
CITY ENGR. _____ ENGINEERING DIV.

Plotted: TER 9-23-38 | Scale: 1"=5' | NB. 181, P. 29 NA. 141, P. 11
Computed: | |

(18) (12)

NORTH

SOUTH

BASE LINE

Stone Wall

Stone Wall starts 19+45.5'

Bridge Floor

Bridge Girders (Steel)

Water Main 16" Square Sec.

Gutter Line 36' St. Sec.

FILE No SE 3891 A6