

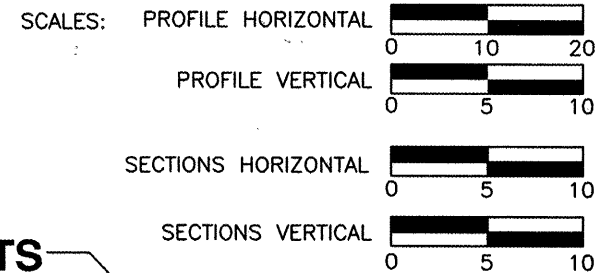
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED  
FEDERAL AID URBAN SYSTEM

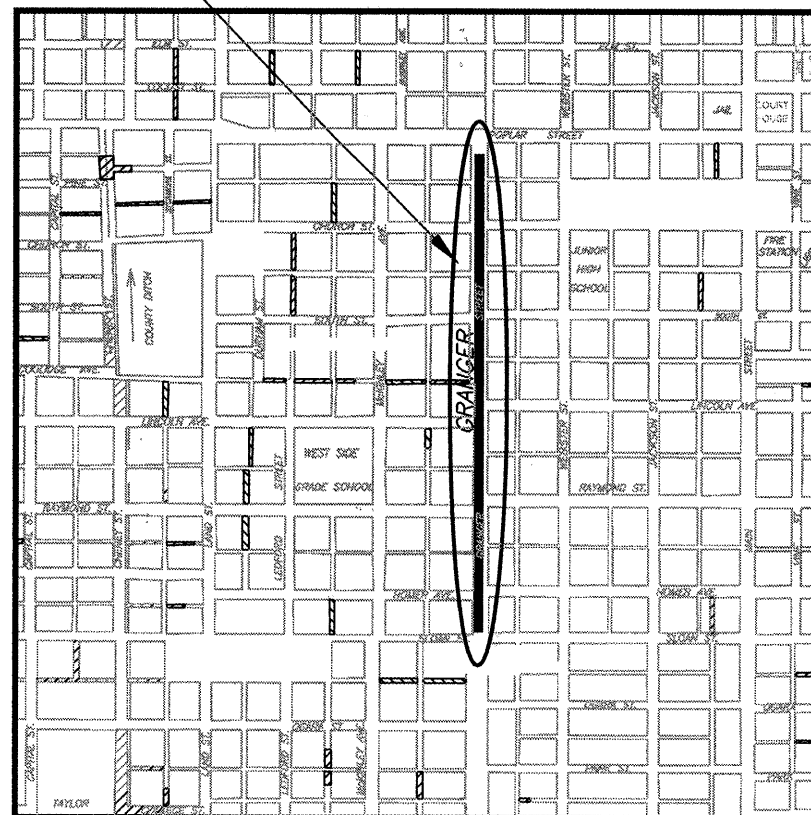
**CITY OF HARRISBURG**

F.A.U. ROUTE 9557 (GRANGER STREET)  
SECTION 05-00081-00-RP  
PROJECT M-5027(10)  
C-99-546-05

**SALINE COUNTY  
GRANGER STREET**



**PROPOSED  
IMPROVEMENTS**



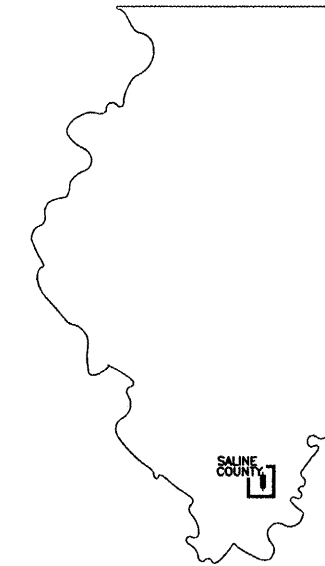
LOCATION MAP  
LENGTH OF IMPROVEMENTS = 2,643 FT. = 0.501 MI.



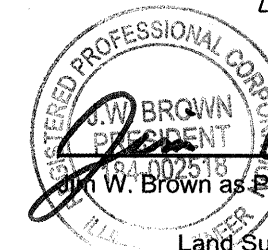
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9557	05-00081-00-RP	SALINE	45	1
CITY OF HARRISBURG		GRANGER STREET		

CONTRACT NO. 99439

**FUNCTIONAL CLASS, COLLECTOR  
ADT (07) = 2790  
DESIGN SPEED = 30 M.P.H.**



LOCATION OF SECTION INDICATED THUS -



*J.W. Brown*  
J.W. Brown as President of Brown and Roberts, Inc. May 19, 2011

Illinois Professional Design Firm  
Land Survey & Professional Engineering Corporation  
Number 184-002518  
Expires April 30, 2013

**INDEX OF SHEETS**

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- 2 SUMMARY OF QUANTITIES
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- INLETS, SPECIAL, NO. 1 & NO. 2
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- 44 TYPICAL SEPARATION DETAILS
- 45 TYPICAL WATERMAIN DETAILS

**STANDARDS**

- 280001-05 TEMPORARY EROSION CONTROL
- 420001-07 PAVEMENT JOINTS
- 424001-05 CURB RAMPS
- 602401-03 MANHOLE TYPE A
- 602601-02 P.R.C. FLAT TOP SLAB
- 602701-02 CAST IRON STEPS
- 604001-03 FRAME AND LID, TYPE 1
- 701501-06 TRAFFIC CONTROL
- 701901-01 TRAFFIC CONTROL DEVICES
- 720001-01 SIGN PANEL MOUNTING
- 720006-02 SIGN PANEL ERECTION
- 780001-02 PAVEMENT MARKINGS
- BLR 10-6 PCC PAVEMENT SPECIAL
- BLR 21-8 TRAFFIC CONTROL
- BLR 22-6 TRAFFIC CONTROL

ALL EXISTING UTILITIES AND LOCATIONS TO BE  
CONFIRMED BY J.U.L.I.E. 800-892-0123

**BR** BROWN & ROBERTS, INC.  
CONSULTING ENGINEERS & LAND SURVEYORS  
1 WESTRIDGE ROAD HARRISBURG, IL 62946 (618) 252-8111

JOB NO. 05045

**CONTRACT NO. 99439**

CITY OF HARRISBURG	
APPROVED	May 19, 2011 <i>[Signature]</i> MAYOR, CITY OF HARRISBURG
PASSED	MAY 26, 2011 <i>[Signature]</i> DISTRICT 9 ENGINEER OF LOCAL ROADS & STREETS
RELEASING FOR BID BASED ON LIMITED REVIEW	May 26, 2011 <i>[Signature]</i> MARY C. LAMIE, P.E. DEPUTY DIRECTOR OF HIGHWAYS REGION FIVE ENGINEER

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9557	05-00081-00-RP	SALINE	45	2
CITY OF HARRISBURG		GRANGER STREET		

CONTRACT NO. 99439

SUMMARY OF QUANTITIES

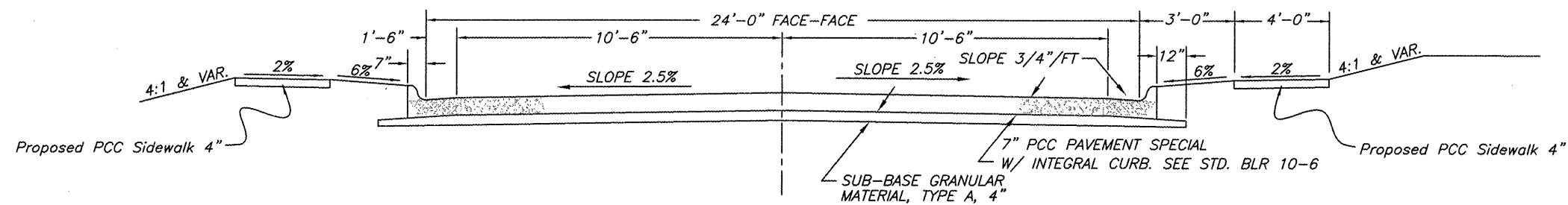
Code Number	Item	Unit	Quantity
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	258.6
20200100	EARTH EXCAVATION	CU YD	500
20800150	TRENCH BACKFILL	CU YD	2260.2
25100630	EROSION CONTROL BLANKET	SQ YD	4500
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	150
28000400	PERIMETER EROSION BARRIER	FOOT	1000
28000500	INLET AND PIPE PROTECTION	EACH	71
31100100	SUBBASE GRANULAR MATERIAL, TYPE A	TON	2400
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	500
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	796
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	19300
42400800	DETECTABLE WARNINGS	SQ FT	264
44000100	PAVEMENT REMOVAL	SQ YD	7500
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	775.2
44000600	SIDEWALK REMOVAL	SQ FT	21975
44213204	TIE BARS 3/4"	EACH	100
550A0050	STORM SEWERS, CLASS A, TYPE 1, 12"	FOOT	909
550A0070	STORM SEWERS, CLASS A, TYPE 1, 15"	FOOT	496
550A0090	STORM SEWERS, CLASS A, TYPE 1, 18"	FOOT	684
550A0120	STORM SEWERS, CLASS A, TYPE 1, 24"	FOOT	462
550A0130	STORM SEWERS, CLASS A, TYPE 1, 27"	FOOT	178
550B0050	STORM SEWERS, CLASS B, TYPE 1, 12"	FOOT	206
550B0070	STORM SEWERS, CLASS B, TYPE 1, 15"	FOOT	90
550B0090	STORM SEWERS, CLASS B, TYPE 1, 18"	FOOT	86
55100500	STORM SEWER REMOVAL 12"	FOOT	153
55100700	STORM SEWER REMOVAL 15"	FOOT	93
55101200	STORM SEWER REMOVAL 24"	FOOT	43
△ *56100700	WATER MAIN 8"	FOOT	2040
△ *56105000	WATER VALVES 8"	EACH	4
△ *56108710	TAPPING VALVES AND SLEEVES 4"	EACH	3
△ *56108800	TAPPING VALVES AND SLEEVES 6"	EACH	10
△ *56200200	WATER SERVICE LINE 3/4"	FOOT	1000
△ *56200300	WATER SERVICE LINE 1"	FOOT	60
△ *56500200	DOMESTIC WATER SERVICE BOXES TO BE MOVED	EACH	5

Code Number	Item	Unit	Quantity
60218400	MANHOLES, TYPE A, 4-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4
60221100	MANHOLES, TYPE A, 5-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	9
60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	6
60266600	VALVE BOXES TO BE ADJUSTED	EACH	1
60500040	REMOVING MANHOLES	EACH	4
60500060	REMOVING INLETS	EACH	13
△ 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	30
△ 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1
△ 66900530	SOIL DISPOSAL ANALYSIS	EACH	1
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12
67100100	MOBILIZATION	L SUM	1
72000100	SIGN PANEL, TYPE 1	SQ FT	12
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	108
△ 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	510
△ 78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	1279
△ 78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	143
LR420125	PORTLAND CEMENT CONCRETE PAVEMENT 7" (SPL) WITH I.C.	SQ YD	8173
X2500900	SEEDING, CLASS 1 (SPECIAL)	ACRE	0.9
△ X5620106	WATER SERVICE RECONNECTIONS	EACH	55
*X6024242	INLETS, SPECIAL, NO. 1	EACH	50
*X6024244	INLETS, SPECIAL, NO. 2	EACH	1
△ *XX000679	CUT AND CAP EXISTING WATER MAIN	EACH	12
△ *XX004760	FIRE HYDRANT WITH AUXILIARY VALVE, VALVE BOX AND TEE	EACH	5
△ *XX005890	DETECTION WIRE	FOOT	3300
△ *XX006537	WATER SERVICE LINE 3/4", BORED	FOOT	120
△ *XX007968	PIPE CASING, 12" PVC	FOOT	190
△ <del>XX008811</del>	WATER MAIN 8" BORED	FOOT	1260
△ <del>XX008815</del>	PVC CASING PIPE, 2"	FOOT	650
△ <del>XX008816</del>	PVC CASING PIPE, 2" BORED	FOOT	60
△ <del>XX008814</del>	PVC CASING PIPE, 12" BORED	FOOT	160
△ <del>XX008818</del>	WATER SERVICE LINE 3/4" INSIDE 2" CASING	FOOT	710
△ <del>XX008815</del>	INLETS, TYPE A, SPECIAL	EACH	7

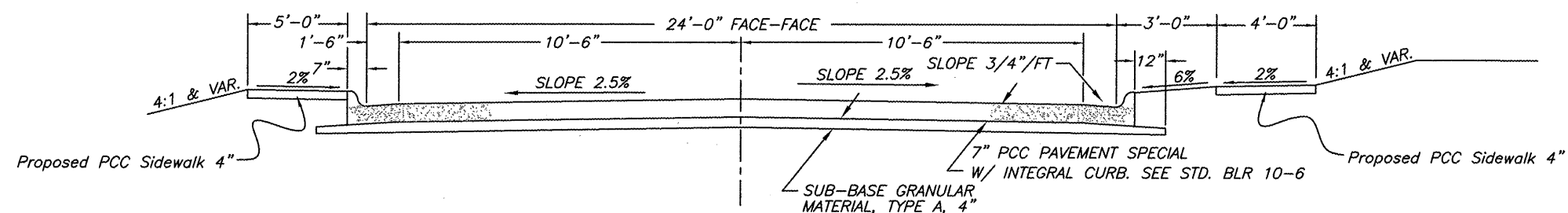
△ SPECIALTY ITEMS

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9557	05-00081-00-RP	SALINE	45	3
CITY OF HARRISBURG		GRANGER STREET		

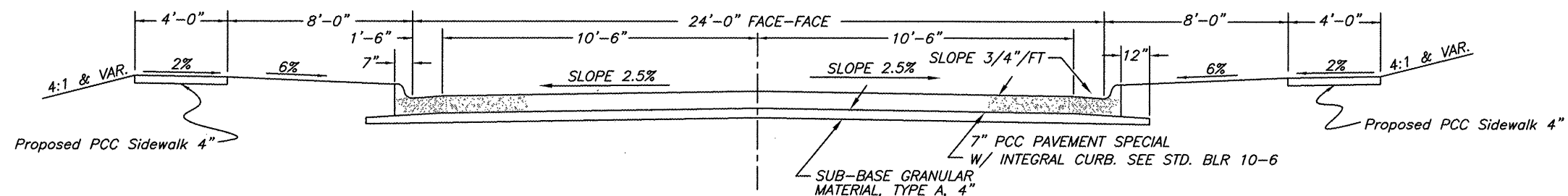
CONTRACT NO. 99439



TYPICAL ROADWAY SECTION STA. 0+50 THRU 6+70  
NO SCALE



TYPICAL ROADWAY SECTION STA. 7+00 TO 14+26  
NO SCALE



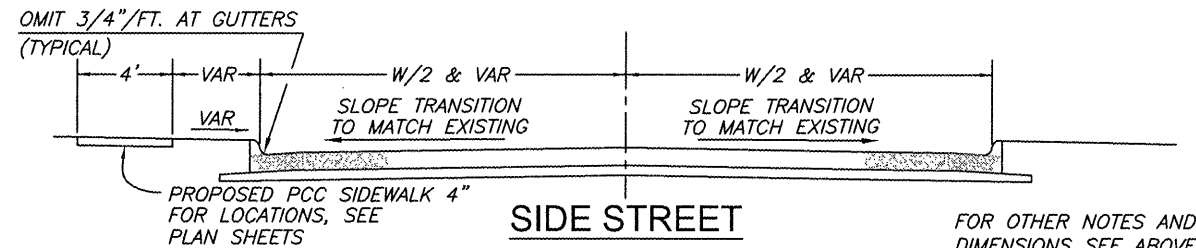
TYPICAL ROADWAY SECTION STA. 14+26 THRU 25+80.9  
NO SCALE

PAVEMENT DESIGN DATA

CLASS II STREET  
 DESIGN PERIOD - 20 YEARS  
 STRUCTURAL DESIGN TRAFFIC (SDT)  
 YEAR - 2027  
 P.C. - 3335  
 S.U. - 50  
 M.U. - 15  
 PERCENT OF PAVEMENT S.D.T IN DESIGN LANE  
 P.C. 50 S.U. 50 M.U. 50  
 SOIL SUPPORT VALUE (I.B.R.) - 3.0  
 TRAFFIC FACTOR (T.F.) - 0.13  
 PAVEMENT STRUCTURE MATERIALS:  
 P.C.C. PAVEMENT MINIMUM THICKNESS 7 INCHES

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9557	05-00081-00-RP	SALINE	45	4
CITY OF HARRISBURG		GRANGER STREET		

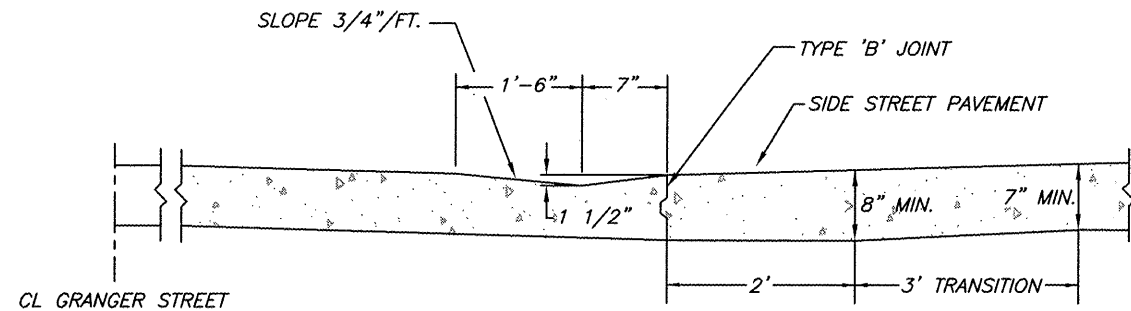
CONTRACT NO. 99439



**SIDE STREET TYPICAL SECTION**

NO SCALE  
TO BE USED AT SIDE STREETS

FOR OTHER NOTES AND DIMENSIONS SEE ABOVE TYPICAL SECTION.



**DEPRESSED CURB**

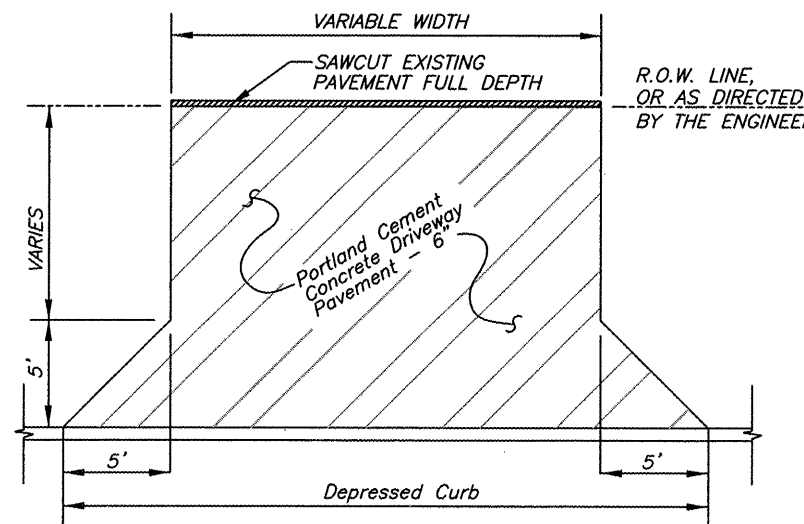
NO SCALE  
TO BE USED ADJACENT TO CITY STREETS  
FOR JOINT 'B' DETAILS, SEE STANDARD BLR 10-6

**SIDE STREET WIDTHS**

LOCATION	WIDTH
HOMER ST.	22'
RAYMOND ST. (WEST)	26'
RAYMOND ST. (WEST)	22'
LINCOLN AVE.	24'
SOUTH ST. (WEST)	24'
SOUTH ST. (EAST)	21'
CHURCH ST. (WEST)	24'
CHURCH ST. (EAST)	30'

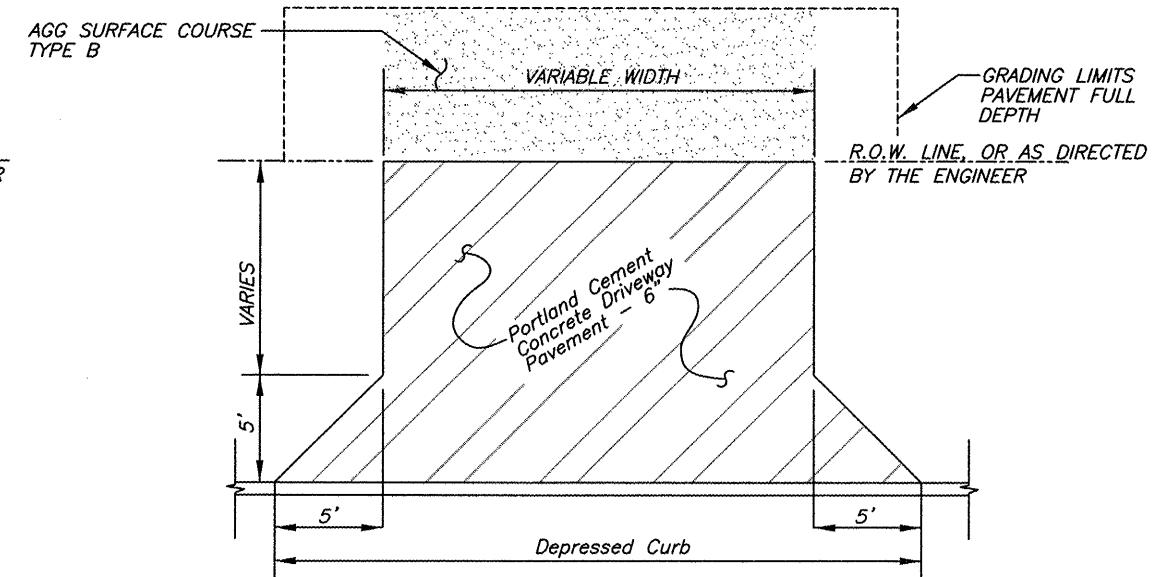
**LEGEND**

- EXISTING UTILITY POLE
- EXISTING CULVERT TO BE REMOVED
- ▲— PROPOSED STORM SEWER
- - - W - - - PROPOSED WATERMAIN
- W — EXISTING WATERMAIN
- ⊙ EXISTING HYDRANT
- — — CONSTRUCTION LIMITS
- X — X — EXISTING FENCE
- ) — EXISTING SANITARY SEWER
- EXISTING SANITARY SEWER MANHOLE
- ) — PROPOSED SANITARY SEWER
- ⊗ PROPOSED SANITARY SEWER MANHOLE
- ▭ EXISTING MAILBOX TO BE MOVED
- ▨ PROPOSED DEPRESSED CURB
- ▩ EXISTING SIDEWALK/DRIVEWAY PAVEMENT TO BE REMOVED
- ☀ EXISTING TREE TO REMAIN
- ☀ EXISTING TREE TO BE REMOVED



**EXISTING PERMANENT PAVEMENT ENTRANCE DETAIL**

NOT TO SCALE



**EXISTING GRAVEL ENTRANCE DETAIL**

NOT TO SCALE

**PCC PAVEMENT 7" SPECIAL WITH INTEGRAL CURB**

LOCATION	LENGTH	WIDTH	AREA (SQ YD)
0+13.5 TO 0+28.4 RT SLOAN STREET			12.4
0+28.4 TO 0+49.3 LT SLOAN STREET			13.6
2+18.5 TO 2+76.7 LT HOMER STREET			67.7
2+23.0 TO 2+75.7 RT HOMER STREET			62.3
4+51.0 TO 4+73.0 LT ALLEY	7.1	12	12.3
4+66.8 TO 4+88.6 RT ALLEY	5.6	12	10.1
6+51.1 TO 7+14.1 RAYMOND STREET			114.9
6+70 TO 6+95, 78'LT RAYMOND STREET			8.0
6+83.4 TO 7+46.1 RT RAYMOND STREET			111.6
8+92.0 TO 9+13.9 LT ALLEY	5.6	12	10.8
9+41.3 TO 9+63.3 RT ALLEY	6.5	12	11.4
10+95.5 TO 11+48.0 LT LINCOLN STREET			65.3
11+62.5 TO 12+16.9 RT LINCOLN STREET			68.2
14+15 TO 14+37 RT ALLEY	6.42	12	11.3
16+36.8 TO 16+89.6 LT SOUTH STREET			64.6
16+38.0 TO 16+88.4 RT SOUTH STREET			59.3
18+85.4 TO 19+07.4 LT ALLEY	13.2	12	20.3
18+85.3 TO 19+06.3 RT ALLEY	17.4	12	25.7
21+03.7 TO 21+73.4 RT CHURCH STREET			88.3
21+11.6 TO 21+65.7 LT CHURCH STREET			67.4
23+68.68 TO 23+89.8 RT ALLEY	12.1	12	18.6
23+69.8 TO 23+91.9 LT ALLEY	12.8	12	19.9
25+81 TO 26+06.0 RT POPLAR STREET			15.3
25+91.1 TO 26+06.0 LT POPLAR STREET			5.4
0+28.4 TO 26+06.0 MAINLINE			7208.3

TOTAL PCC PAVEMENT 7" SPECIAL WITH INTEGRAL CURB 8173.0

**MANHOLES TO BE ADJUSTED**

WITH NEW TYPE 1 FRAME AND CLOSED LID

LOCATION	LID ELEVATION		ADJUSTMENT (FOOT)
	EXISTING	PROPOSED	
2+32.6, 15.1'LT	368.69	368.33	-0.36
7+02.5, 9'LT	366.64	366.28	-0.36
11+09.9, 10.7'LT	367.5	367.34	-0.16
11+91.4, 4.7'LT	367.74	367.72	-0.02
16+61.9, 1.2'RT	369.95	369.47	-0.48
21+38.3, 0.5'RT	382.58	382.05	-0.53

TOTAL MANHOLES TO BE ADJUSTED = 6 EACH

**DRIVEWAY PAVEMENT**

*LOCATION	EXISTING SURFACE	DRIVEWAY PAV'T REMOVAL			PCC DRIVEWAY PAV'T 6"		
		LENGTH	WIDTH	SQ. YD.	LENGTH	WIDTH	SQ. YD.
0+86 TO 1+31 LT	CONC.	18.8	7.9	16.4	10.2	35	42.4
1+42 TO 1+76 RT	CONC.	24.8	5.6	17.0	8.3	24	24.8
2+92 TO 3+26 RT	BIT.				5.0	24	16.5
3+59 TO 3+97 LT	BIT.				7.3	28	25.5
4+73 TO 4+87 LT	AGG.				7.1	14.8	11.6
5+32 TO 5+56 LT					7	14	13.6
5+51 TO 5+72 RT	CONC.	21	3.5	7.8			
5+92 TO 6+14 RT	CONC.	22	3.5	7.8			
7+58 TO 7+80 LT	SIDEWALK				5	12	9.4
8+19 TO 8+47 LT	SIDEWALK				5	18	12.8
8+41 TO 8+75 RT	CONC.	36	7.5	25.3	6.5	24	20.1
9+46 TO 9+65 LT	SIDEWALK				5	19	7.9
9+84 TO 10+06 LT	SIDEWALK				5	12	9.4
9+91 TO 10+36 RT	AGG.				7.2	35	30.6
10+09 TO 10+31 LT	SIDEWALK				5	12	9.4
10+96 TO 11+10 LT	CONC.	12.9	11	15.0			
11+19 TO 11+45 RT	CONC.	24.5	10	20.5	6.5	16	14.3
12+49 TO 12+94 LT	AGG.				5	35	22.2
12+64 TO 12+86 RT	AGG.				6.4	12	11.3
13+20 TO 13+40 RT	AGG.				5	9.5	8.3
13+28 TO 13+53 LT	CONC.				VAR.	14	12
13+58 TO 13+78 RT	AGG.				VAR.	10	14.7
13+63 TO 13+89 LT	BIT.	29	8.1	23.5	VAR.	16	16.8
13+96 TO 14+26 LT	CONC.	35.4	8.3	30.9	VAR.	20	24.3
14+03 TO 14+15 RT	BIT.				6.24	12	8.6
14+34 TO 14+66 LT	CONC.	31.9	10	34.9	11.24	22	30.3
15+56 TO 16+00 LT	CONC.	82	12.8	107.7	11.43	35	46.9
15+61 TO 15+95 RT					VAR.	24	25.9
15+87 TO 16+38 RT	CONC.	51	10.6	55.7			
17+01 TO 17+23 RT	AGG.				12.1	12	18.9
17+25 TO 17+57 LT	BIT/CONC	58.6	13.7	69.3	12.49	22	33.3
17+50 TO 17+72 RT	AGG.				12.22	12	19.1
18+15 TO 18+37 LT					12.28	12	19.1
19+07 TO 19+22 LT	CONC.	37.3	8.5	34.3	11.94	15	19.6
19+48 TO 19+70 RT	CONC.	16	9.7	12.0	11.42	12	18
19+62 TO 19+84 LT	CONC.	38.7	8.5	33.2	11.8	12	18.4
20+03 TO 20+31 RT	CONC.	25.8	9.5	22.3	12.47	18	27.6
20+07 TO 20+41 LT	CONC.	26.4	7.9	21.9	11.53	24	33.2
21+94 TO 22+59 RT	CONC.	65	8.2	51.6			
22+80 TO 23+02 RT	CONC.	18.7	12.6	23.0	11.42	12	18
22+89 TO 23+11 LT	BIT/CONC	16	12.7	11.8	11.42	12	18
24+42 TO 24+64 LT	CONC.	13.5	12.5	9.9	11.42	12	18
24+51 TO 24+73 RT	CONC.	30.3	8.1	24.7	11.42	12	18
24+90 TO 25+35 LT	CONC.	100	12	98.7	11.42	35	47.2

TOTAL DRIVEWAY PAVEMENT REMOVAL 775.2 REPLACEMENT 796.0

\* EXACT LOCATION TO BE DESIGNATED BY THE ENGINEER

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9557	05-00081-00-RP	SALINE	45	5
CITY OF HARRISBURG		GRANGER STREET		

**CONTRACT NO. 99439**

**PC SIDEWALK 4"**

LOCATION	WIDTH (FT)	LENGTH (FT)	AREA (SQ. FT.)
-0+37 TO -0+17 RT.	4	VAR.	148
-0+34 TO 0+01 LT	VAR.	VAR.	344
SLOAN ST. WEST	4	190	760
0+32 TO 0+91 LT	4	59	236
SLOAN ST. EAST	4	4	16
0+17 TO 1+47 RT	4	130	520
1+26 TO 2+35 LT	4	109	436
1+72 TO 2+37 RT	4	65	260
HOMER ST. SW.	4	17	68
HOMER ST. SE.	4	17	68
HOMER ST. NW.	4	17	68
HOMER ST. NE.	4	17	68
2+64 TO 3+65 LT	4	101	404
2+65 TO 2+97 RT	4	32	128
3+21 TO 4+72 RT	4	151	604
3+92 TO 4+56 LT	4	64	256
4+83 TO 5+38 LT	4	55	220
4+84 TO 6+95 RT	4	211	844
5+52 TO 6+66 LT	4	114	456
RAYMOND ST. SW.	4	25	100
RAYMOND ST. SE.	4	26	104
RAYMOND ST. NW.	4	25	100
RAYMOND ST. NE.	4	14	56
7+06 TO 7+53 LT	5	47	235
7+32 TO 8+46 RT	4	114	456
7+75 TO 8+24 LT	5	49	245
8+42 TO 8+97 LT	5	55	275
8+70 TO 9+46 RT	4	76	304
9+09 TO 9+89 LT	5	80	400
9+58 TO 9+96 RT	4	38	152
10+01 TO 10+14 LT	5	13	65
10+26 TO 11+05 LT	5	39	195
10+31 TO 11+24 RT	4	98	392
LINCOLN ST. SW.	5	21	105
LINCOLN ST. NW.	4	8	32
LINCOLN ST. SE	13	14	182
LINCOLN ST. NE.	17	14	238
11+40 TO 11+70 RT	4	30	120

TOTAL PROPOSED SIDEWALK 19300

LOCATION	WIDTH (FT)	LENGTH (FT)	AREA (SQ. FT.)
11+37 TO 12+54 LT	5	117	585
12+81 TO 14+09 RT	4	128	512
12+89 TO 13+33 LT	5	44	220
13+56 TO 13+68 LT	4	12	48
13+85 TO 14+01 LT	4	16	64
14+21 TO 14+39 LT	4	18	72
14+33 TO 15+65 RT	4	132	528
14+60 TO 15+61 LT	4	101	404
15+89 TO 16+53 RT	4	64	256
15+95 TO 16+52 LT	4	57	228
SOUTH ST. NW.	4	17	68
SOUTH ST. NE.	4	17	68
16+75 TO 17+30 LT	4	55	220
16+74 TO 17+06 RT	4	30	120
17+17 TO 17+55 RT	4	38	152
17+52 TO 18+20 LT	4	68	272
17+67 TO 18+90 RT	4	113	452
18+31 TO 18+91 LT	4	60	240
19+02 TO 19+53 RT	4	51	204
19+17 TO 20+13 LT	4	96	384
19+65 TO 20+07 RT	4	42	168
20+26 TO 21+22 RT	4	96	384
20+36 TO 21+26 LT	4	90	360
CHURCH ST. SE.	4	17	68
CHURCH ST. SW.	4	17	68
CHURCH ST. NE.	5	16	80
CHURCH ST. NW.	4	17	68
21+51 TO 22+94 LT	4	143	572
21+55 TO 22+85 RT	4	130	520
22+97 TO 23+73 RT	4	76	304
23+06 TO 23+75 LT	4	69	276
23+85 TO 24+68 RT	4	83	332
23+78 TO 24+47 LT	4	69	276
24+59 TO 24+95 LT	4	36	144
24+68 TO 25+98 RT	4	130	520
25+30 TO 25+97 LT	4	67	268
POPLAR ST. WEST	4	15	60
POPLAR ST. EAST	5	15	75

**PAINT PAVEMENT MARKINGS**

LOCATION	SKIP DASH 4" YELLOW (FOOT)	CROSSWALK 6" WHITE (FOOT)	STOP BAR 12" WHITE (FOOT)
-0+19		66	
-0+17 TO 0+18 LT		67	
-0+03 TO 0+36		70	
0+37		56	
0+49 LT			12
0+50 TO 25+80	510		
2+22		46	
HOMER ST. WEST		60	11
HOMER ST. EAST		60	11
2+74		50	
6+56		48	
RAYMOND ST. WEST		83	12
RAYMOND ST. EAST		78	11
11+02		52	
LINCOLN ST. WEST		60	12
LINCOLN ST. EAST		60	12
SOUTH ST. WEST		50	12
SOUTH ST. EAST		45	11
16+83		52	
21+12		50	
CHURCH ST. WEST		51	12
CHURCH ST. EAST		70	15
21+66		50	
25+81 RT			12
25+94		55	

TOTAL PAVT MARKING 510 1279 143

**SIGNS**

APPROXIMATE LOCATION	TYPE	NO.	SIGN AREA (SQ. FT.)	POST (FOOT)
1+25, 14'RT	NO PARKING	R7-(12X18)	1.5	13.5
6+00, 14'LT	NO PARKING	R7-(12X18)	1.5	13.5
9+00, 14'RT	NO PARKING	R7-(12X18)	1.5	13.5
10+75, 14'LT	NO PARKING	R7-(12X18)	1.5	13.5
14+75, 14'RT	NO PARKING	R7-(12X18)	1.5	13.5
19+50, 14'LT	NO PARKING	R7-(12X18)	1.5	13.5
22+50, 14'RT	NO PARKING	R7-(12X18)	1.5	13.5
24+00, 14'LT	NO PARKING	R7-(12X18)	1.5	13.5

TOTAL SIGN AND POST QUANTITIES 12.0 108.0

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9557	05-00081-00-RP	SALINE	45	6
CITY OF HARRISBURG		GRANGER STREET		

CONTRACT NO. 99439

**DETECTABLE WARNINGS**

LOCATION	AREA (SQ. FT.)
-0+19, 23'RT	10.0
-0+19, 15'LT	6.0
-0+03, 24'LT	6.0
0+20, 19'RT	6.0
0+35, 19'LT	14.0
0+37, 13'RT	6.0
2+21, 14'LT	6.0
2+21, 14'RT	6.0
2+30, 19'LT	6.0
2+32, 19'RT	6.0
2+67, 18'LT	6.0
2+70, 16'RT	6.0
2+72, 15'LT	6.0
2+76, 13'RT	6.0
6+56, 14'LT	6.0
6+56, 13'RT	6.0
6+60, 17'LT	6.0
6+91, 17'RT	6.0
7+09, 16'LT	6.0
7+38, 17'RT	6.0
11+02, 15'LT	6.0
11+02, 13'RT	6.0
11+05, 18'LT	6.0
11+43, 16'LT	6.0
11+71, 18'RT	6.0
12+09, 18'RT	6.0
16+48, 22'LT	6.0
16+49, 22'RT	6.0
16+77, 22'RT	6.0
16+78, 22'LT	6.0
16+83, 16'RT	6.0
16+84, 16'LT	6.0
21+11, 15'RT	6.0
21+12, 13'LT	6.0
21+18, 22'RT	6.0
21+23, 22'LT	6.0
21+54, 22'LT	6.0
21+59, 22'RT	6.0
21+66, 15'RT	6.0
21+67, 15'LT	6.0
25+94, 14'LT	6.0
25+94, 14'RT	6.0

TOTAL 264.0

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9557	05-00081-00-RP	SALINE	45	7
CITY OF HARRISBURG		GRANGER STREET		

CONTRACT NO. 99439

DRAINAGE STRUCTURES

	STATION	OFFSET	SIDE	STRUCTURE TYPE	TOP OF CASTING ELEVATION	FLOWLINE ELEVATION
1	0+52.3	12.58	LT	INLET, SPECIAL, NO.1	370.31	367.31
2	0+52.3	9.79	LT	MANHOLE TYPE A, 5' DIA., T1F, CL	369.99	362.07
3	1+95	12.58	LT	INLET, SPECIAL, NO.1	369.04	366.04
4	1+95	6.63	LT	MANHOLE TYPE A, 5' DIA., T1F, CL	368.73	362.96
5	1+95	12.58	RT	INLET, SPECIAL, NO.1	369.04	366.04
6	2+36.5	27.52	LT	INLET, SPECIAL, NO.1	368.75	365.90
6A	2+39.8	6.30	LT	MANHOLE TYPE A, 5' DIA., T1F, CL	368.48	363.23
7	3+35	12.58	LT	INLET, SPECIAL, NO.1	368.34	365.41
8	3+35	6.63	LT	MANHOLE TYPE A, 5' DIA., T1F, CL	368.03	363.13
9	3+35	12.58	RT	INLET, SPECIAL, NO.1	368.34	365.34
10	4+30	12.58	LT	INLET, SPECIAL, NO.1	367.86	364.86
11	4+30	6.91	LT	MANHOLE TYPE A, 5' DIA., T1F, CL	367.54	363.03
12	4+30	12.58	RT	INLET, SPECIAL, NO.1	367.86	364.86
13	5+20	12.58	LT	INLET, SPECIAL, NO.1	367.41	364.41
14	5+20	7.18	LT	MANHOLE TYPE A, 5' DIA., T1F, CL	367.08	362.93
15	5+20	12.58	RT	INLET, SPECIAL, NO.1	367.41	364.41
16	6+20	12.58	LT	INLET, SPECIAL, NO.1	366.91	363.91
17	6+20	7.47	LT	MANHOLE TYPE A, 5' DIA., T1F, CL	366.58	362.82
18	6+20	12.58	RT	INLET, SPECIAL, NO.1	366.91	363.91
19	6+69.9	34.60	LT	INLET SPECIAL, TYPE A, TY 3V F&G	367.12	363.00
20	6+81.9	12.58	RT	INLET, SPECIAL, NO.1	366.68	363.68
21	6+96.9	10.90	RT	MANHOLE TYPE A, 5' DIA., T1F, CL	366.26	360.52
22	6+97.2	7.70	LT	MANHOLE TYPE A, 5' DIA., T1F, CL	366.33	362.74
23	6+97.4	27.50	RT	INLET, SPECIAL, NO.1	366.34	360.44
24	6+98.9	35.90	LT	INLET SPECIAL, TYPE A, TY 3V F&G	367.11	362.87
25	7+18.6	12.58	LT	INLET, SPECIAL, NO.1	366.65	360.81
26	7+31.4	12.58	LT	INLET, SPECIAL, NO.1	366.66	360.75
27	7+31.4	10.94	RT	MANHOLE TYPE A, 4' DIA., T1F, CL	366.24	360.66
28	7+31.4	24.53	RT	INLET, SPECIAL, NO.1	366.36	360.73
29	7+90	12.58	LT	INLET, SPECIAL, NO.1	366.78	361.01
30	7+90	12.58	RT	INLET, SPECIAL, NO.1	366.78	360.91
31	8+85	12.58	LT	INLET, SPECIAL, NO.1	367.06	361.44
32	8+85	12.58	RT	INLET, SPECIAL, NO.1	367.06	361.34
33	9+78	12.58	LT	INLET, SPECIAL, NO.1	367.34	361.89
34	9+78	12.58	RT	INLET, SPECIAL, NO.1	367.34	361.76
35	10+42	12.58	LT	INLET, SPECIAL, NO.1	367.54	362.15

	STATION	OFFSET	SIDE	STRUCTURE TYPE	TOP OF CASTING ELEVATION	FLOWLINE ELEVATION
36	10+42	12.58	RT	INLET, SPECIAL, NO.1	367.54	362.05
37	10+92.5	12.58	LT	INLET, SPECIAL, NO.1	367.69	362.38
38	10+92.5	12.58	RT	INLET, SPECIAL, NO.1	367.69	362.28
39	11+10	28.50	LT	INLET SPECIAL, TYPE A, TY 3V F&G	367.55	362.27
40	11+33	27.50	LT	INLET SPECIAL, TYPE A, TY 3V F&G	367.60	362.17
41	11+33	14.00	LT	MANHOLE TYPE A, 4' DIA., T1F, CL	367.30	362.11
42	11+70.9	12.58	LT	INLET, SPECIAL, NO.1	367.94	361.88
43	11+70.9	24.30	RT	MANHOLE TYPE A, 4' DIA., T1F, CL	367.94	361.75
44	11+76.7	24.34	RT	INLET SPECIAL, TYPE A, TY 3V F&G	367.50	361.80
45	12+04.22	24.32	RT	INLET, SPECIAL, NO. 2	367.50	362.05
46	12+45	12.58	LT	INLET, SPECIAL, NO.1	368.15	362.09
47	12+45	12.58	RT	INLET, SPECIAL, NO.1	368.15	365.15
48	13+59	12.58	LT	INLET, SPECIAL, NO.1	368.49	362.40
49	13+55	12.58	RT	INLET SPECIAL, TYPE A, TY 3V F&G	368.47	365.47
50	14+32	12.58	LT	INLET SPECIAL, TYPE A, TY 3V F&G	368.72	362.61
51	14+45	12.58	RT	INLET, SPECIAL, NO.1	368.62	362.69
52	15+30	12.58	LT	INLET, SPECIAL, NO.1	369.13	366.13
53	15+30	12.58	RT	INLET, SPECIAL, NO.1	369.13	362.92
54	16+30	12.58	LT	INLET, SPECIAL, NO.1	369.57	366.57
55	16+30	12.58	RT	INLET, SPECIAL, NO.1	369.57	363.17
56	16+75.2	30.00	RT	INLET, SPECIAL, NO.1	369.78	366.78
57	16+92.5	12.58	RT	INLET, SPECIAL, NO.1	369.91	363.38
58	16+93.7	12.58	LT	INLET, SPECIAL, NO.1	369.92	366.92
59	18+40	12.58	RT	INLET, SPECIAL, NO.1	372.15	368.15
60	18+40	12.58	LT	INLET, SPECIAL, NO.1	372.15	369.15
61	19+90	12.58	RT	INLET, SPECIAL, NO.1	376.52	372.52
62	19+90	12.58	LT	INLET, SPECIAL, NO.1	376.52	373.52
63	21+00.7	12.58	RT	INLET, SPECIAL, NO.1	381.08	377.08
64	21+03.3	12.58	LT	INLET, SPECIAL, NO.1	381.17	378.17
65	21+55.5	13.87	RT	MANHOLE TYPE A, 4' DIA., T1F, CL	382.46	378.41
66	21+55.5	29.30	RT	INLET, SPECIAL, NO.1	383.11	380.11
67	22+70	12.58	RT	INLET, SPECIAL, NO.1	384.07	381.07
68	23+60	12.58	RT	INLET, SPECIAL, NO.1	385.09	381.84
69	23+60	12.58	LT	INLET, SPECIAL, NO.1	385.09	382.09
70	24+80	12.58	RT	INLET, SPECIAL, NO.1	386.67	383.67
71	25+77.9	12.58	RT	INLET, SPECIAL, NO.1	389.49	386.49

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9557	05-00081-00-RP	SALINE	45	8
CITY OF HARRISBURG		GRANGER STREET		

CONTRACT NO. 99439

### STORM SEWER

POINT TO POINT	STORM SEWERS, CLASS A, TYPE 1					STORM SEWERS, CLASS B, TYPE 1			% GRADE	TRENCH BACKFILL (CU. YD.)
	12"	15"	18"	24"	27"	12"	15"	18"		
1-2	4								0.50%	0.3
2-4					138				0.64%	127.7
3-4	4								1.00%	0.5
4-5	18								0.83%	2.2
5-6A					40				0.68%	24.6
6-6A	19								0.89%	2.2
6A-8				91					0.11%	34.5
7-8	4								0.50%	0.5
8-9	18								0.44%	2.2
8-11				90					0.11%	28.7
10-11	4								1.00%	0.5
11-12	18								0.50%	2.2
11-14				85					0.11%	22.2
13-14	4								1.00%	0.4
14-15	18								0.83%	2.2
14-17				95					0.11%	22.1
16-17	3								1.33%	0.4
17-18	18								0.83%	2.2
17-22				73					0.11%	12.6
19-24	25								0.52%	5.2
24-22	26								0.51%	5.4
22-21				15					1.60%	2.5
20-21						13			0.38%	1.6
21-23				13					0.62%	8.2
21-27								31	0.45%	20.5
25-26	8								0.75%	5.6
26-27	22								0.41%	13.3
27-28	9								0.78%	5.1
27-30								55	0.45%	39.7
29-30	25								0.40%	9.2
30-32								90	0.47%	46.0
31-32	25								0.40%	9.2
32-34						88			0.47%	42.9
33-34	25								0.52%	8.7
34-36						59			0.49%	26.8

POINT TO POINT	STORM SEWERS, CLASS A, TYPE 1					STORM SEWERS, CLASS B, TYPE 1			% GRADE	TRENCH BACKFILL (CU. YD.)
	12"	15"	18"	24"	27"	12"	15"	18"		
35-36	25								0.40%	8.2
36-38						46			0.50%	20.6
37-38	25								0.40%	8.2
39-40	21								0.48%	6.8
40-41	11								0.54%	3.6
41-42	34								0.68%	24.5
42-43				35					0.37%	26.1
43-44	4								1.25%	2.0
44-45	24								1.04%	8.3
42-46				70					0.30%	60.8
46-47	25								0.40%	3.2
46-48				107					0.29%	91.4
48-49	24								0.42%	3.0
48-50				69					0.30%	50.4
50-51				28					0.29%	17.5
51-53				79					0.29%	68.7
52-53	25								0.48%	3.2
53-55				95					0.26%	85.3
54-55	25								0.48%	3.2
55-56				58					0.36%	46.4
58-57	25								0.48%	2.9
57-56	23								0.48%	4.3
57-59				143					3.34%	55.5
60-59	25								0.57%	2.9
59-61				145					3.01%	31.6
61-62	25								0.52%	2.9
61-63				106					4.30%	22.7
64-63	25								0.48%	3.2
63-65				50					5.94%	12.4
65-66	13								0.46%	1.9
65-67				110					0.93%	18.2
67-68				85					0.91%	12.3
68-69	25								1.00%	3.2
68-70	115								1.59%	18.9
70-71	93								3.03%	12.1

TOTALS	909	496	684	462	178	206	90	86		1284.5
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### TRENCH BACKFILL FOR WATERMAIN

LOCATION	OFFSET	PIPE DIA. (IN)	TRENCH BACKFILL (C.Y.)
0+40	20'LT TO 18'RT	8	9.3
0+20 TO 2+35	18'RT	8	59.9
2+70	19'LT TO 6'RT	12	6.9
2+70	6'RT TO 18'RT	8	2.3
2+35 TO 2+65	18'RT	8	9.3
2+65 TO 6+80	17'RT	8	115.9
6+70	19'LT TO 6'RT	12	6.9
6+70	6'RT TO 17'RT	8	2.3
6+70 TO 6+95	78'LT	12	6.9
6+80 TO 7+40	17'RT	12	16.6
7+45	17'RT TO 34'RT	8	5.0
7+40 TO 11+75	17'RT	8	120.6
11+45	25'LT TO 15'RT	12	11.0
11+60 TO 12+20	17'RT	12	16.6
12+20 TO 14+20	17'RT	8	55.4
14+20	2'RT TO 17'RT	8	3.5
14+20	25'LT TO 2'RT	12	7.1
14+20 TO 16+50	25'LT TO 17'LT	8	63.6
16+50 TO 16+75	17'LT	12	6.9
16+75	30'LT TO 17'LT	8	3.6
16+75	17'LT TO 3'LT	8	3.5
16+75	3'LT TO 37'RT	12	5.5
16+75 TO 21+25	17'LT	8	124.9
21+15	33'LT TO 1'RT	8	8.4
21+15	1'RT TO 26'RT	12	7.1
21+25 TO 21+55	18'LT	8	7.0
21+55 TO 25+95	18'LT	8	122.2
25+95 TO 26+05	18'LT	8	2.3

TOTAL TRENCH BACKFILL FOR WATERMAIN	810.5
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ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9557	05-00081-00-RP	SALINE	45	9
CITY OF HARRISBURG		GRANGER STREET		

CONTRACT NO. 99439

INLET AND MANHOLE REMOVAL

STRUCTURE NO.	LOCATION	DESCRIPTION
SI	2+36.5 LT	INLET
S1A	2+39.8 LT	MANHOLE
S2	6+67.8 LT	INLET
S3	6+96.6 LT	INLET
S3A	6+97.2 LT	MANHOLE
S4	6+91.8 RT	INLET
S5	6+99.8 RT	INLET
S6	6+98.7 RT	MANHOLE
S7	7+29.4 RT	INLET
S8	11+07.6 LT	INLET
S9	11+33.6 LT	INLET
S10	11+76.5 RT	INLET
S10A	11+70.9 RT	MANHOLE
S11	12+04.3 RT	INLET
S12	12+04.3 LT	INLET
S13	21+22.3 RT	INLET
S14	21+54.7 RT	INLET

STORM SEWER REMOVAL

POINT TO POINT	STATION	OFFSET (FT)	LENGTH (FEET)			TRENCH BACKFILL (C.Y.)
			12"	15"	24"	
SI	2+36.5 TO 2+39.8	10' LT	7			2.8
S2-S3	6+67.8 TO 6+96.6	12' LT	29			14.5
S3-22	6+96.7 TO 6+97	10' LT	3			1.5
S4-22	6+91.8 TO 6+97	LT/RT	20			7.5
S5-22	6+99.8 TO 6+97	LT/RT	18			9.0
S5-S6	6+98.7 TO 6+99.8	12' RT			12	9.8
S5-S7	6+99.8 TO 7+29.4	12' RT	28			15.2
S8-S9	11+07.6 TO 11+33.6	18' LT	25			13.7
S9	1133.6 TO 11+70.86	LT/RT		55		37.5
S10	11+76.5 TO 11+70.9	13.5' RT		11		8.2
S10-S11	11+76.5 TO 12+04.3	13.5' RT		27		18.1
S11-S12	12+04.3 TO 12+04.3	LT/RT	23			12.2
S12-S14	12+22.3 TO 12+54.7	29' RT			31	15.2

TOTAL STORM SEWER REMOVAL 153 93 43 165.2

SIDEWALK REMOVAL

LOCATION	WIDTH (FT)	LENGTH (FT)	AREA (SQ. FT.)
-0+37 TO -0+17 RT	VAR.	VAR.	143
-0+34 TO 0+00 LT	VAR.	VAR.	287
0+30 TO 2+37 LT	VAR.	207	1625
0+16 TO 2+37 RT	VAR.	226	1082
2+61 TO 6+69 LT	VAR.	408	1918
2+61 TO 4+70 RT	VAR.	209	1255
4+86 TO 6+95 RT	VAR.	209	954
7+06 TO 8+96 LT	VAR.	190	910
7+27 TO 8+44 RT	VAR.	117	505
8+72 TO 9+45 RT	VAR.	73	275
9+10 TO 11+03 LT	VAR.	193	972
9+60 TO 11+25 RT	VAR.	165	647
11+34 TO 13+68 LT	VAR.	234	1000
11+38 TO 11+78 RT	VAR.	40	445
12+02 TO 14+20 RT	VAR.	418	1497
14+58 TO 15+37 LT	4	79	316
15+98 TO 16+51 LT	VAR.	53	306
16+38 TO 16+50 RT	VAR.	12	106
16+74 TO 18+84 RT	VAR.	210	846
16+75 TO 17+30 LT	VAR.	55	307
17+52 TO 18+86 RT	VAR.	134	525
19+06 TO 21+27 LT	VAR.	221	1167
19+06 TO 21+22 RT	VAR.	216	978
21+51 TO 23+73 LT	VAR.	222	1009
21+55 TO 22+87 RT	VAR.	132	657
23+02 TO 23+73 RT	VAR.	71	320
23+88 TO 26+03 RT	VAR.	215	969
23+89 TO 26+05 LT	VAR.	216	954

TOTAL SIDEWALK REMOVAL 21975

TREE REMOVAL

STATION	OFFSET (FT)	UNITS
5+25	24' LT	27
5+25	24' LT	37.5
5+92	22' LT	31.5
6+25	18' LT	40.0
6+61	29' LT	26.1
11+50	18.3' LT	16.0
11+70	18' LT	19.0
12+00	18' LT	18.2
13+16	20' LT	20.1
19+35	16.2' RT	23.2

TOTAL TREE REMOVAL 258.6

## STORM WATER POLLUTION PREVENTION PLAN

The following Plan is established and incorporated in the project to direct the Contractor in the placement of temporary erosion control systems and to provide a storm water pollution prevention plan for compliance under NPDES.

The purpose of this plan is to minimize erosion within the construction site and to limit sediments leaving the construction site by utilizing proper temporary erosion control systems and providing ground cover within a reasonable amount of time.

Certain erosion control facilities shall be installed by the Contractor at the beginning of construction. Other items shall be installed as directed by the Engineer on a case by case situation depending on the Contractor's sequence of activities, time of year and expected weather conditions.

The Contractor shall construct permanent erosion control systems and seeding within a time frame specified herein and as directed by the Engineer, therefore minimizing the amount of area susceptible to erosion and reducing the amount of temporary seeding. The engineer will determine if any temporary erosion control systems shown in the plans can be deleted and if any additional temporary erosion control systems, which are not included in the plans, shall be added. The contractor shall perform all work as directed by the Engineer and as shown in STANDARD 280001.

Section 280, Temporary Erosion Control, of the Standard Specifications additionally supplements this plan.

### INTENDED SEQUENCE OF MAJOR CONSTRUCTION ACTIVITIES

1. Isolated tree removal. Trees to remain will be protected against damage.
2. Watermain, Sanitary Sewers, Storm Sewers, and Drainage Structures.
3. Excavation and grading.
4. Placement of Aggregate Base Course.
5. Placement of PCC Pavement.
6. Seeding and permanent erosion control systems.

### AREA OF CONSTRUCTION SITE

1. The total area of the construction site is estimated to be 2.5 Acres of which approximately 2.5 Acres will be disturbed.

### OTHER REPORTS, STUDIES AND PLANS WHICH AID IN THE DEVELOPMENT OF THE SWPPP AS REFERENCED DOCUMENTS.

1. Information of the terrain was obtained from topographic maps.
2. Project plan documents, specifications and special provisions and plan drawings indicating the drainage patterns and location of existing drainage features were utilized in the preparation of the proposed placement of temporary erosion control systems.

### DRAINAGE TRIBUTARIES AND SENSITIVE AREAS RECEIVING RUNOFF

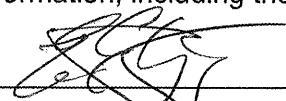
1. Proposed storm sewers are tributary to existing storm sewers. No new discharge points will be constructed.

### CONTROLS - EROSION CONTROLS AND SEDIMENT CONTROLS

1. Existing vegetation will be preserved where attainable and disturbed portions of the site will be stabilized. Stabilization practices will include temporary seeding, permanent seeding, mulching, protection of trees, preservation of mature vegetation and other appropriate measures as directed by the Engineer. Stabilization measures shall be initiated as soon as practical in those areas of the site where construction activities have ceased, but in no case more than 7 days after the construction activity for an area has temporarily or permanently ceased.
2. Areas outside the construction limits shall be protected from construction activities.
3. Dead, diseased or unsuitable vegetation within the site shall be removed as directed by the Engineer.
4. As soon as is reasonable, the temporary erosion control system shall be installed as indicated in the plans or as directed by the engineer.

This plan has been prepared with the intent to comply with the provisions of the NPDES Permit Number ILR10, issued by the Illinois Environmental Protection Agency for storm water discharges from construction site activities.

I certify under penalty of law that this plan was prepared at my direction in accordance with a system that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

  
Eric Gregg, Mayor

May 19, 2011

Date

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9557	05-00081-00-RP	SALINE	45	10
CITY OF HARRISBURG		GRANGER STREET		

CONTRACT NO. 99439

DESCRIPTION OF STABILIZATION PRACTICES  
DURING CONSTRUCTION

1. During construction, areas outside the construction limits shall be protected.
2. Within the construction limits, areas which may be susceptible to erosion as determined by the Engineer shall remain undisturbed until full scale construction is underway.
3. Earth stockpiles shall be temporary seeded if they are to remain unused for more than 14 days.
4. As soon as construction proceeds, the contractor shall institute the following as directed by the Engineer:
  - A) Place temporary erosion control facilities at locations shown in the plans.
  - B) Temporarily seed erodable bare earth on a weekly basis to minimize the amount of erodable surface area within the contract limits.
  - C) Provide temporary erosion control systems.
  - D) Temporarily divert water around proposed culvert locations.
5. Excavated areas shall be permanently seeded immediately after final grading. If not, they shall be temporarily seeded if no construction in the area is planned for 7 days.
6. All necessary measures shall be taken by the contractor to contain any fuel or pollutant in accordance with EPA water quality regulations. Leaking equipment or supplies shall be immediately repaired or removed from the site.
7. The Resident Engineer shall inspect the project daily during construction activities. Inspection shall also be done weekly and after rains of 0.5 inches or greater or equivalent snowfall and during any winter shutdown period.
8. Sediment collected during the construction by the various temporary erosion control systems shall be disposed of on site on a regular basis as directed by the Resident Engineer. The cost of this maintenance shall be considered incidental to the erosion control system.
9. The temporary erosion control systems shall be removed as directed by the Engineer after use is no longer needed or no longer functioning. The cost of removal shall be included in the unit bid price for various temporary erosion control pay items.

DESCRIPTION OF STRUCTURAL PRACTICES  
AFTER FINAL GRADING

1. Temporary seeding shall be left in place with proper maintenance until permanent erosion control and all proposed turf areas seeded and established.
2. Once permanent erosion control systems as proposed in the plans are functional and established, temporary items shall be removed, cleaned up and disturbed turf areas reseeded.

MAINTENANCE AFTER CONSTRUCTION

1. Construction is complete after FINAL acceptance by I.D.O.T. final inspection. Maintenance up to this date will be by the contractor.

MISCELLANEOUS

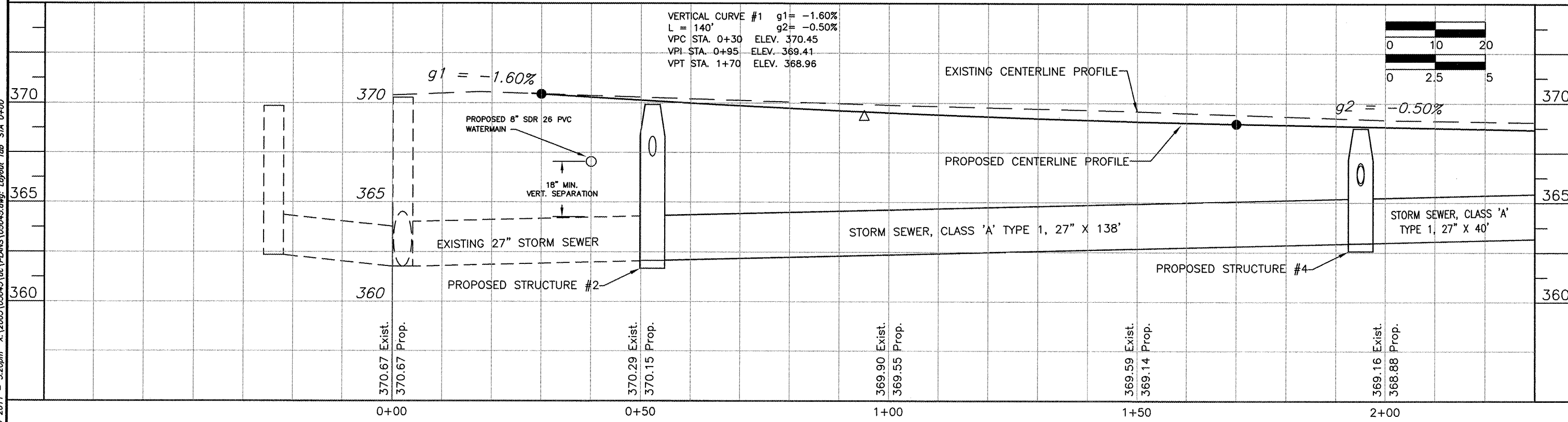
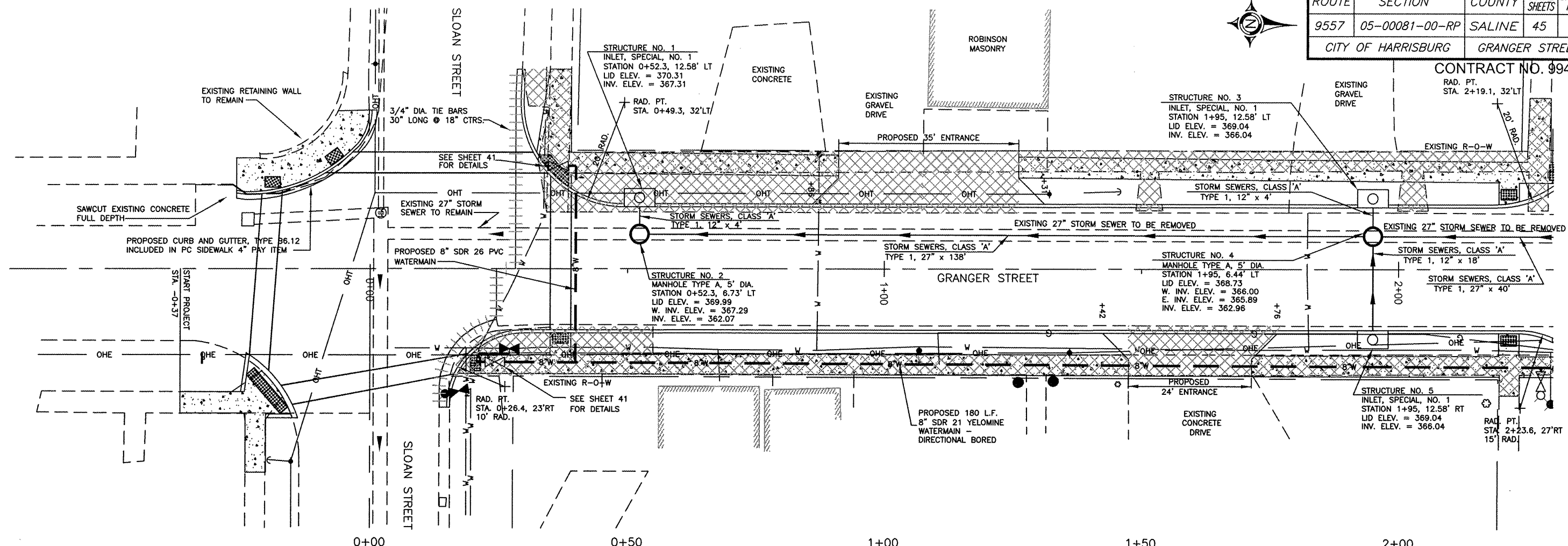
1. Temporary erosion control seeding shall be applied at the rate of 100 lbs/acre.
2. All erosion control products furnished shall be specifically recommended by the manufacturer for the use specified in the erosion control plan. Prior to the approval and use of the product, the contractor shall submit to the Engineer a notarized certification by the producer stating the intended use of the product and the physical properties required for this application are met or exceeded. The contractor shall provide manufacturer installation procedures to facilitate the Engineer in construction inspection.
3. All items shall be constructed as shown on STANDARD 280001 and as directed by the Engineer. Maintenance and cleaning of erosion control items shall be considered part of the respective erosion control pay item.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9557	05-00081-00-RP	SALINE	45	11
CITY OF HARRISBURG		GRANGER STREET		

**CONTRACT NO. 99439**

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9557	05-00081-00-RP	SALINE	45	12
CITY OF HARRISBURG		GRANGER STREET		

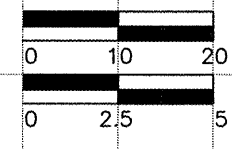
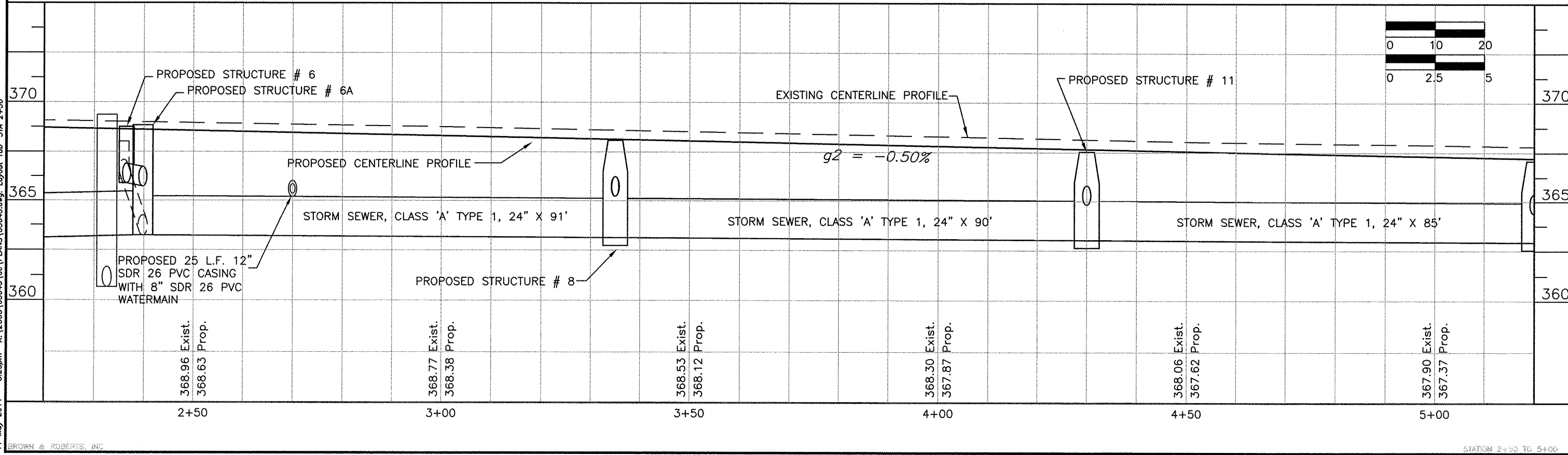
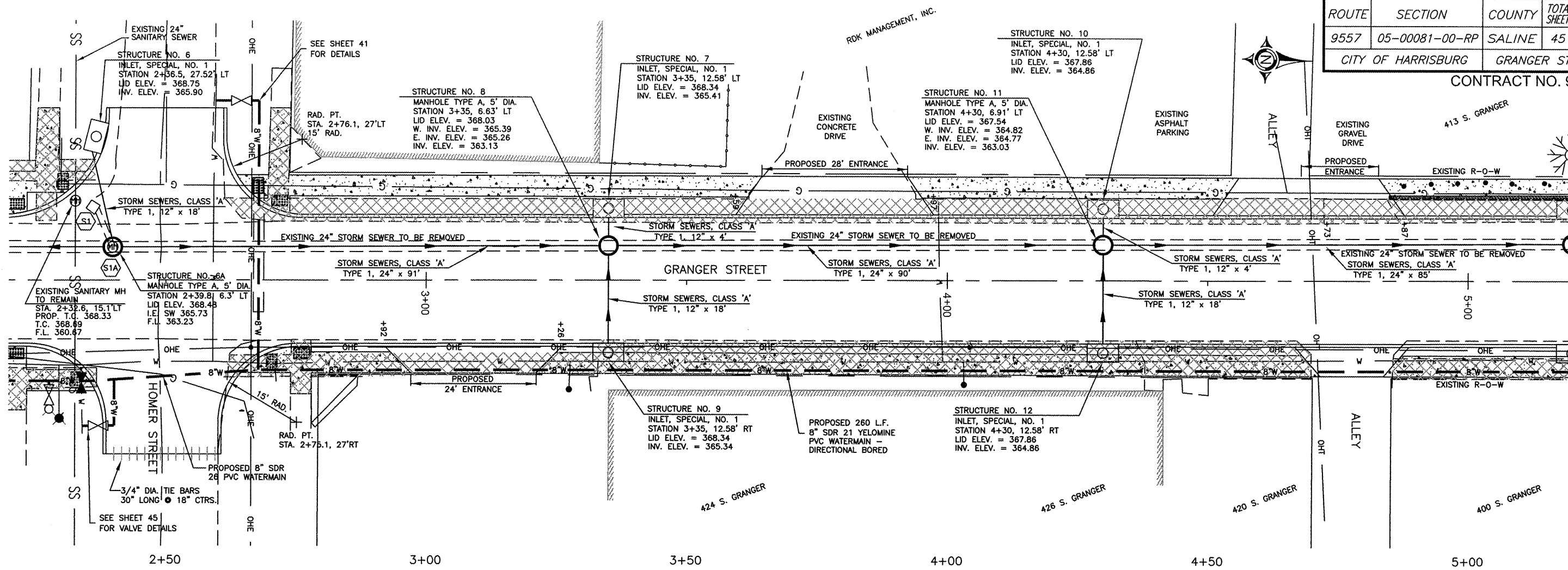
CONTRACT NO. 99439



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ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CITY OF HARRISBURG		GRANGER STREET		

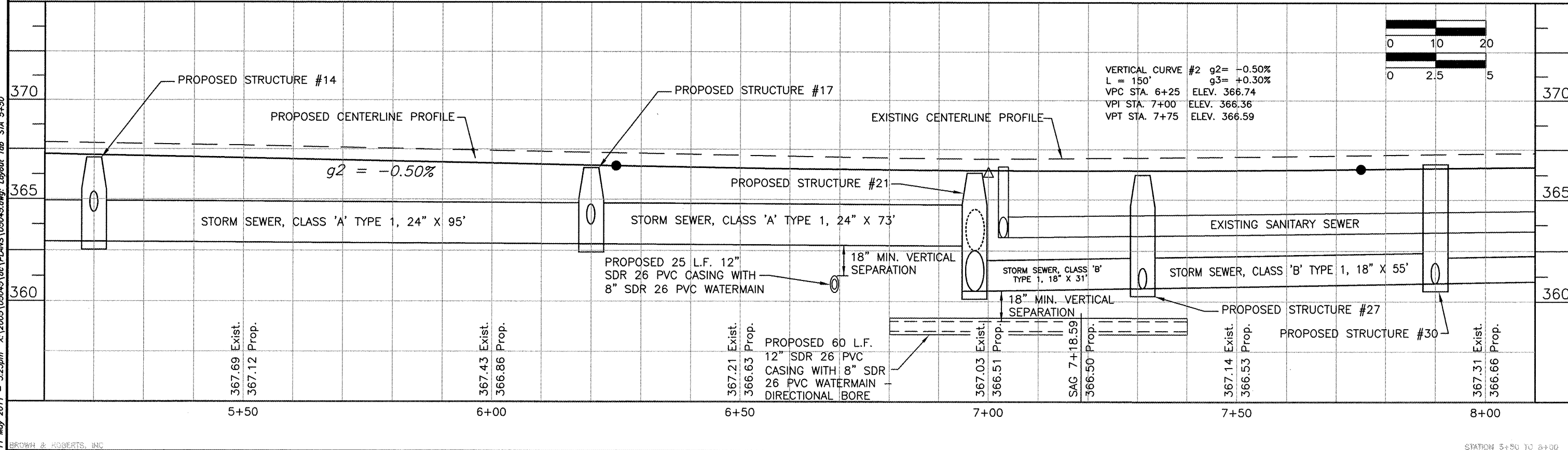
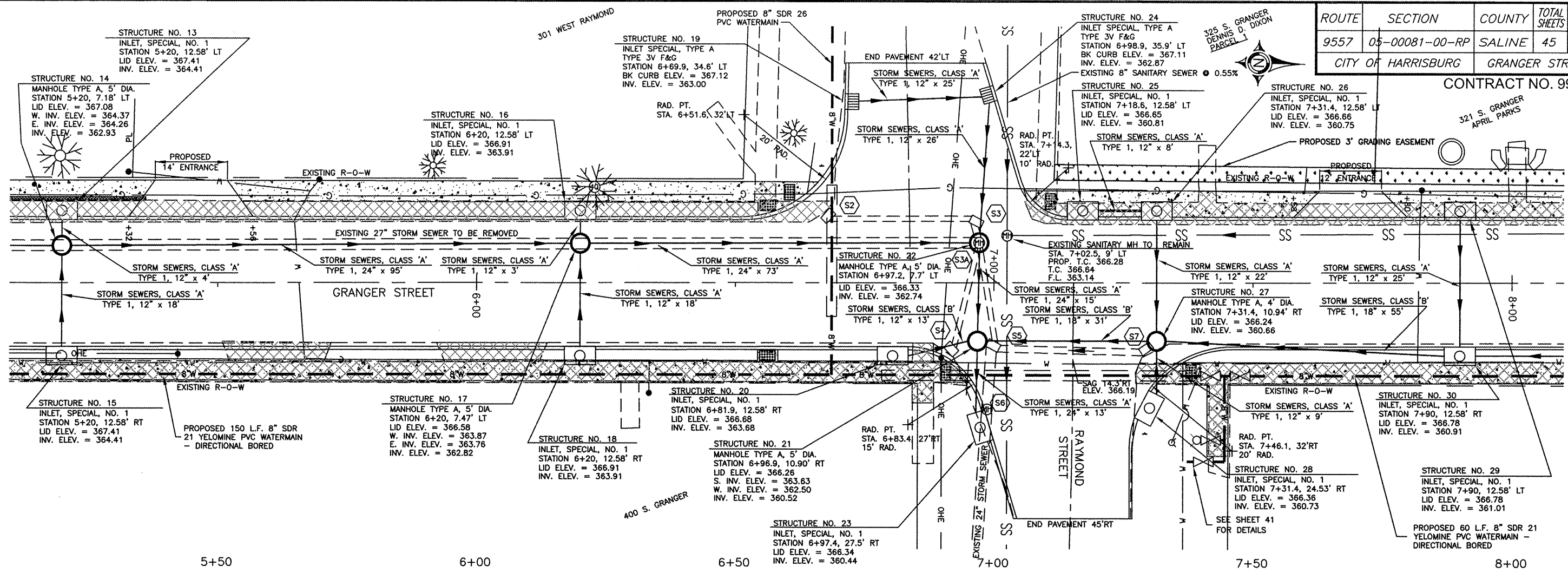
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9557	05-00081-00-RP	SALINE	45	14
CITY OF HARRISBURG		GRANGER STREET		

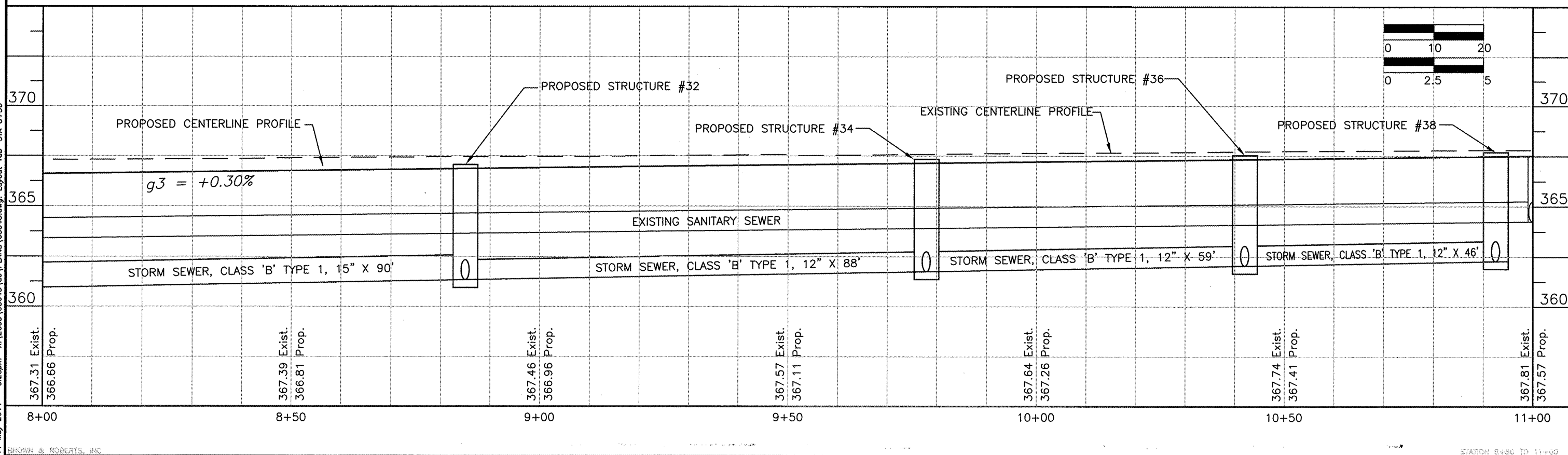
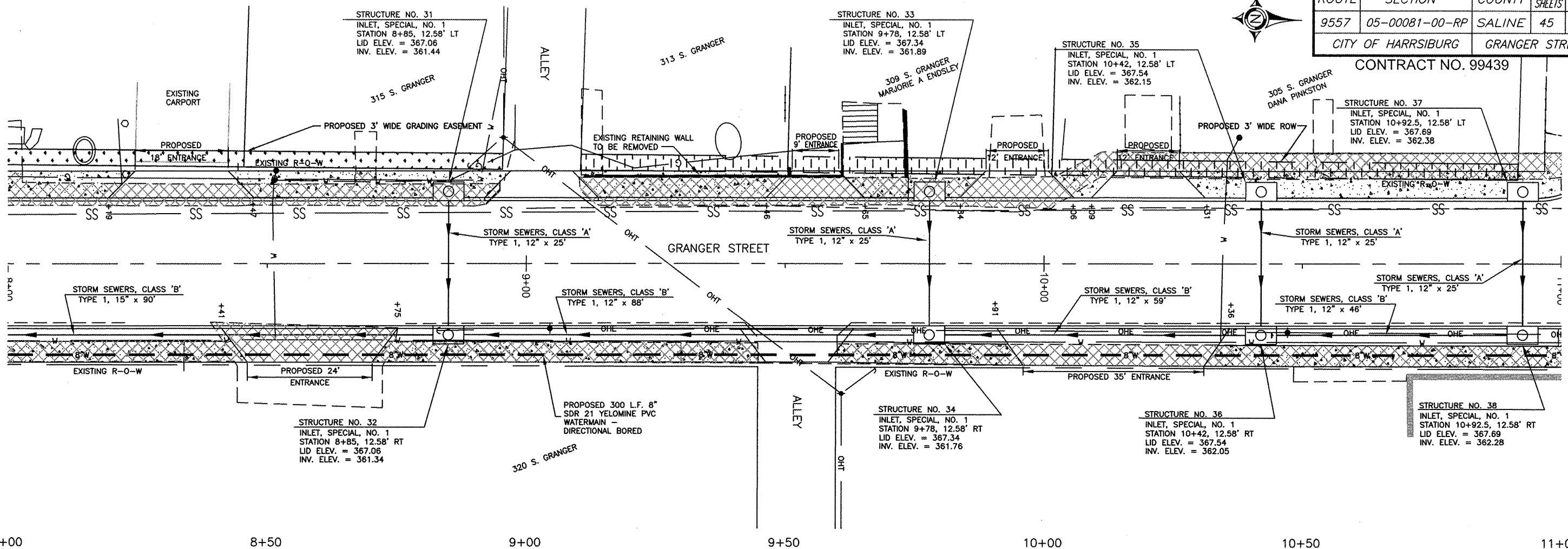
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CITY OF HARRISBURG		GRANGER STREET		

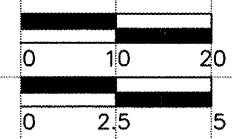
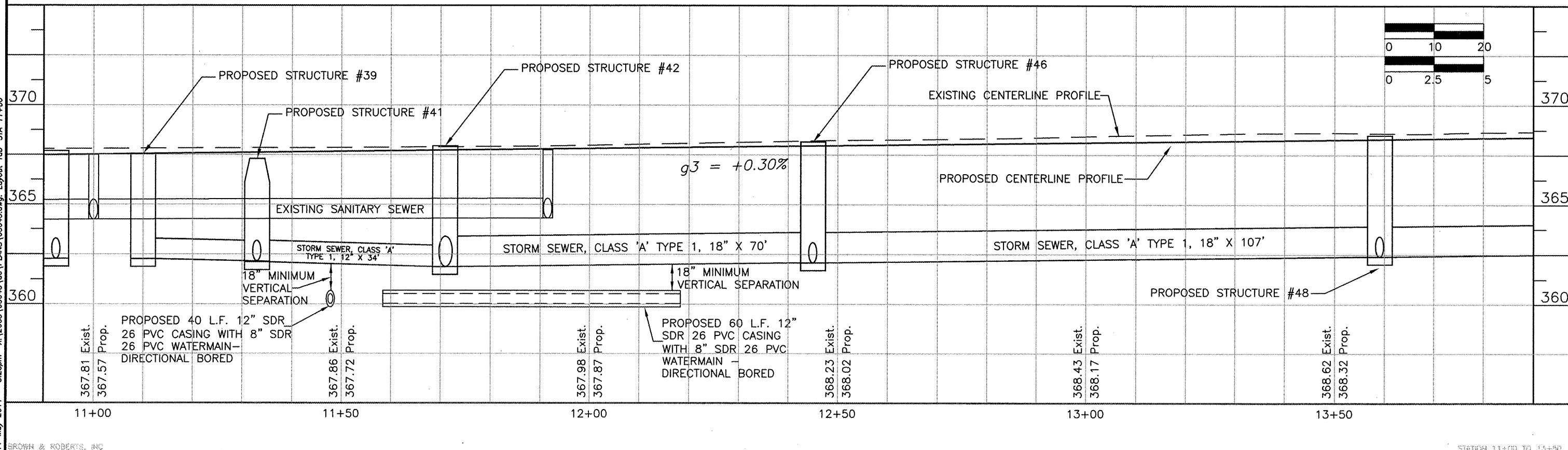
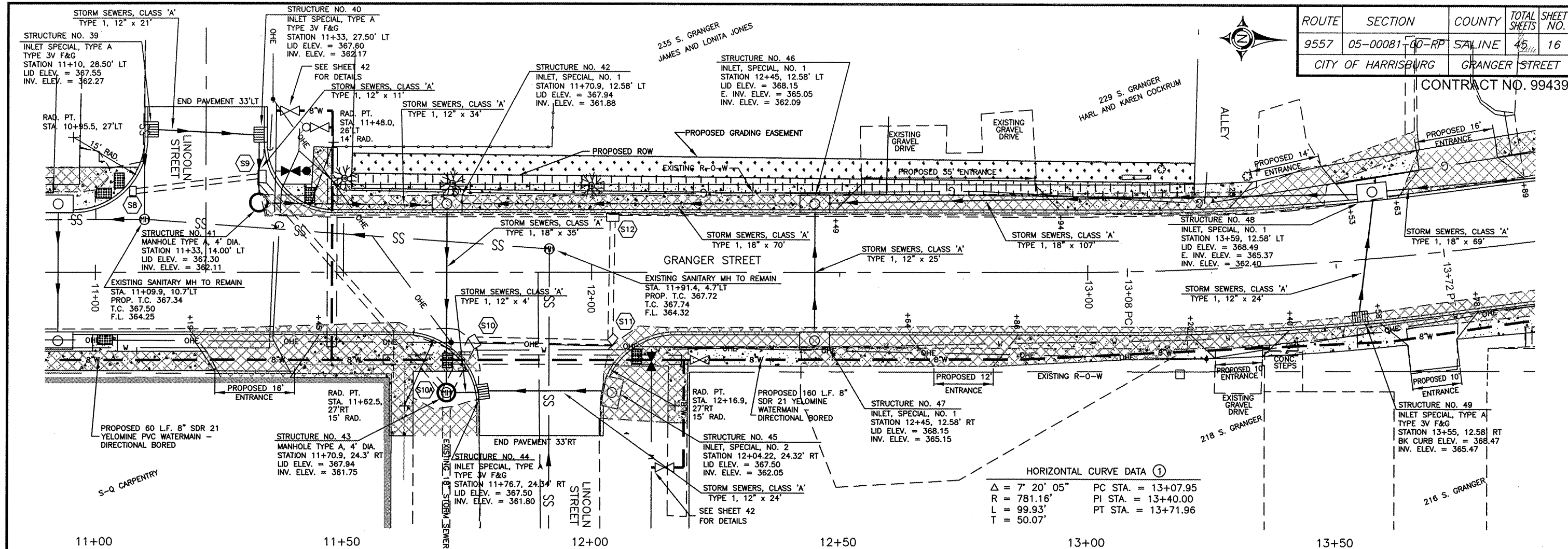
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CITY OF HARRISBURG		GRANGER STREET		

CONTRACT NO. 99439

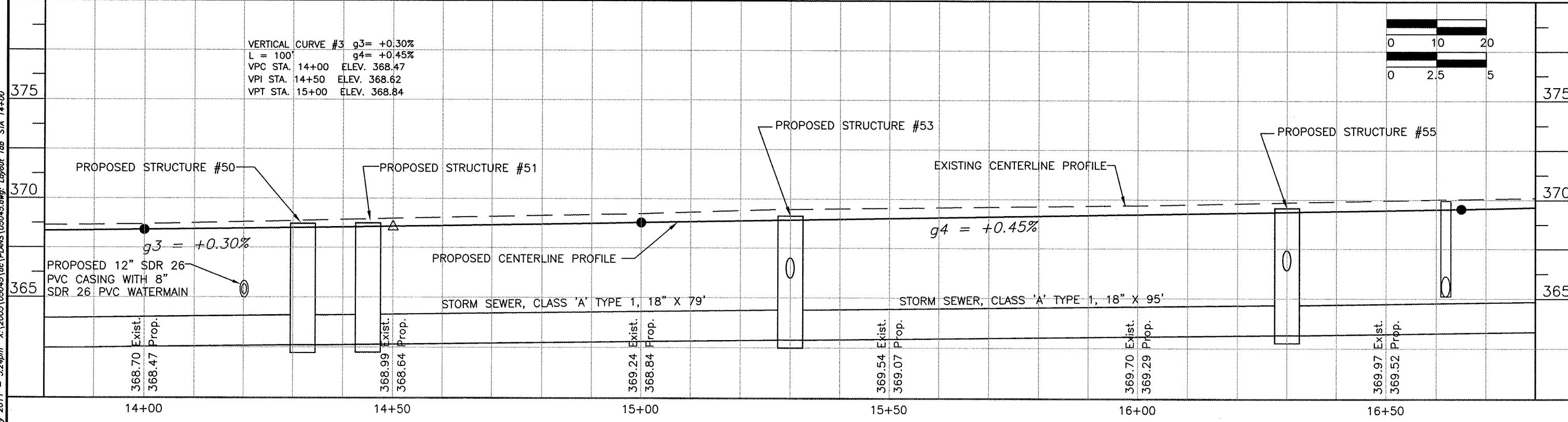
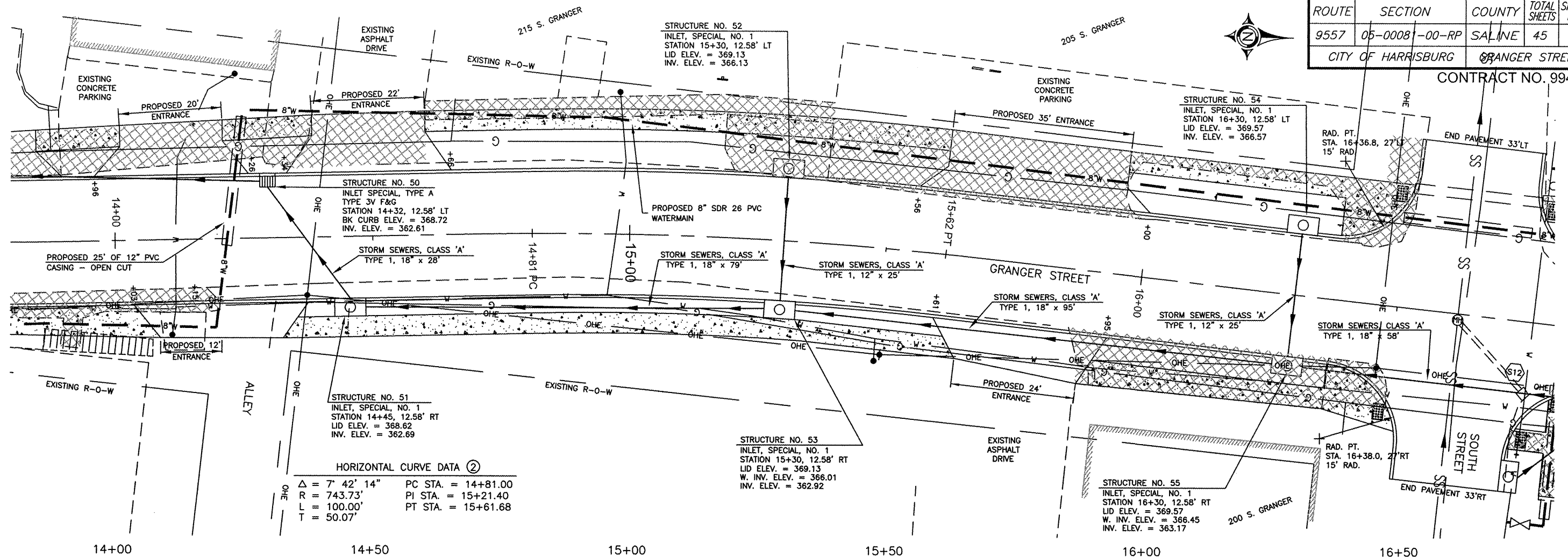


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CITY OF HARRISBURG			GRANGER STREET	

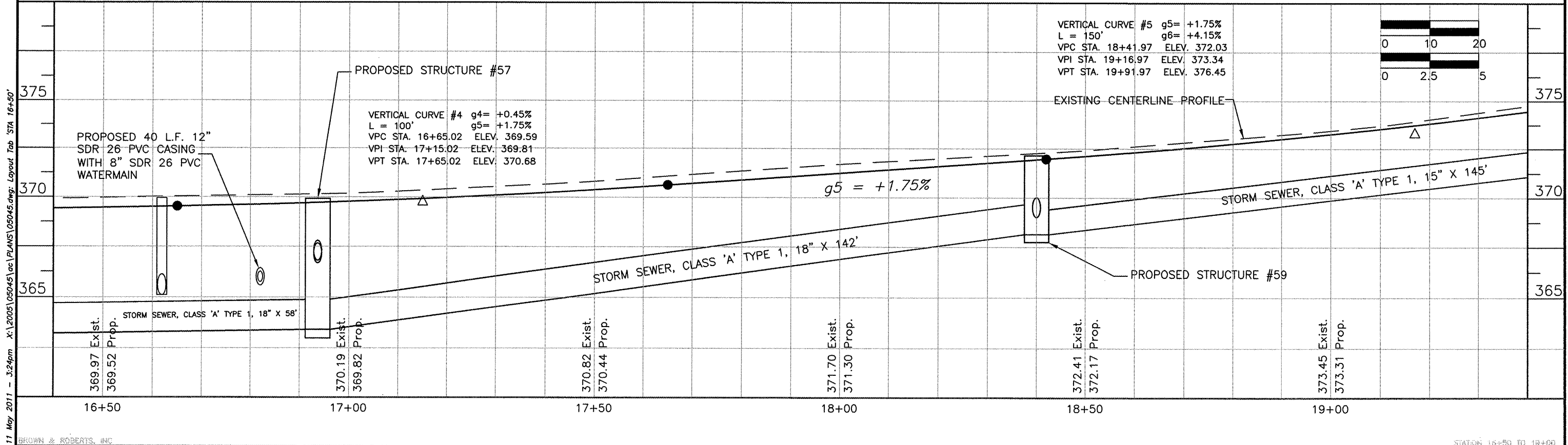
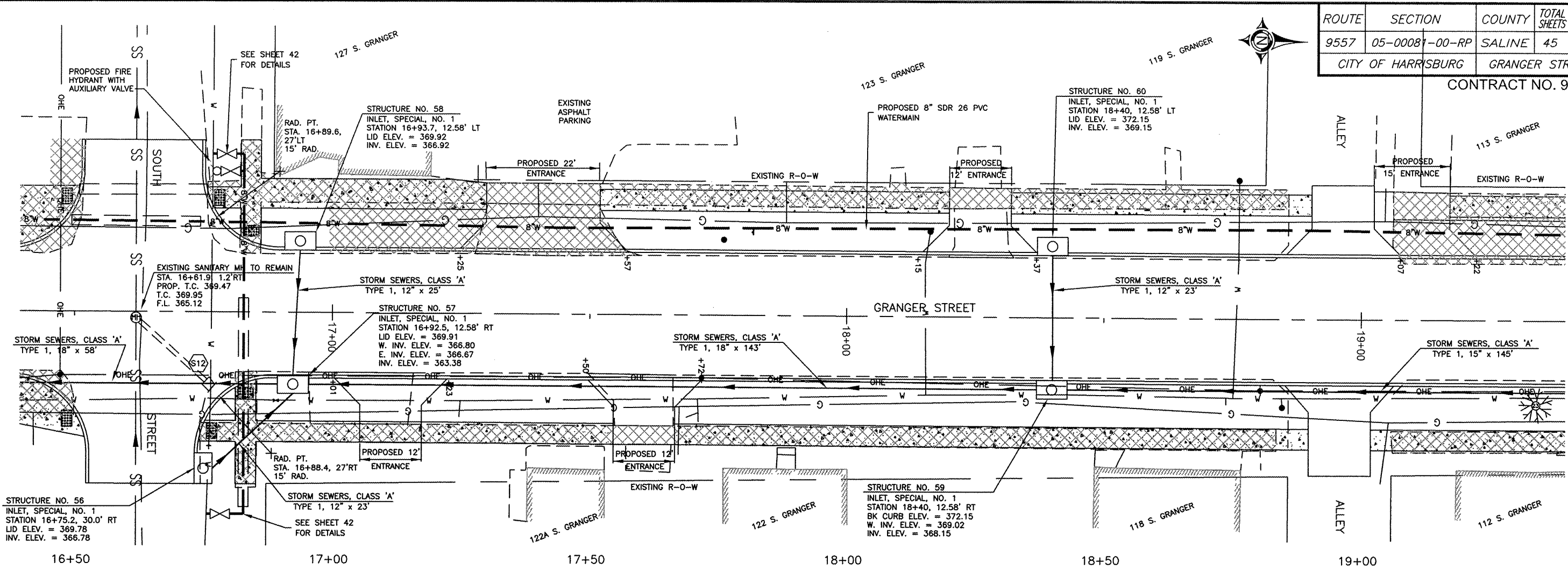
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CITY OF HARRISBURG			GRANGER STREET	

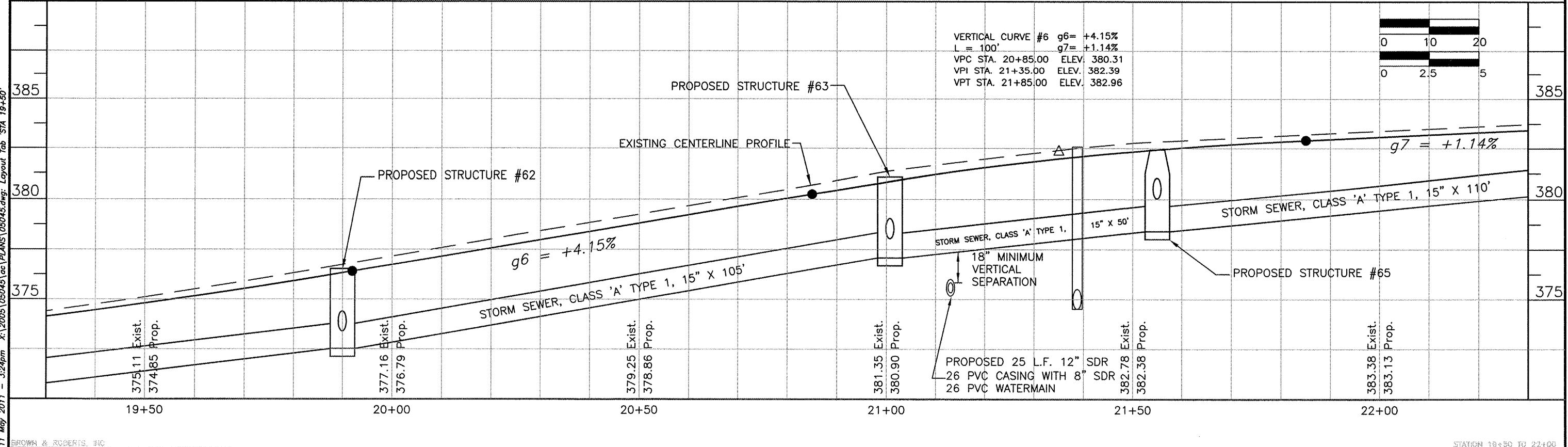
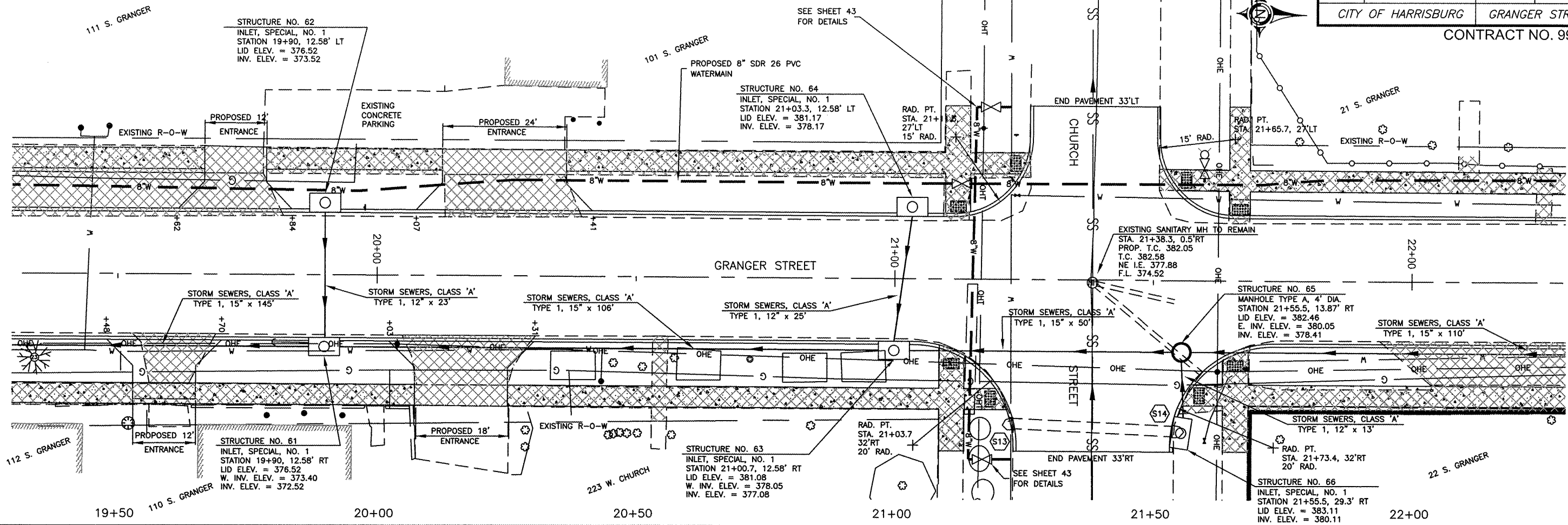
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CITY OF HARRISBURG		GRANGER STREET		

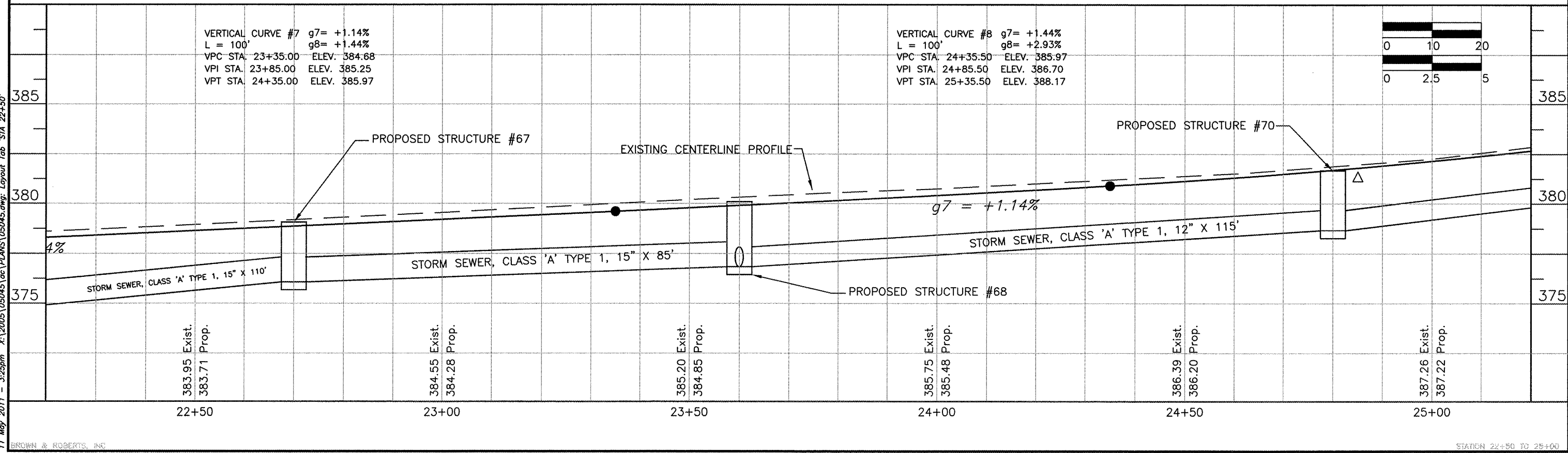
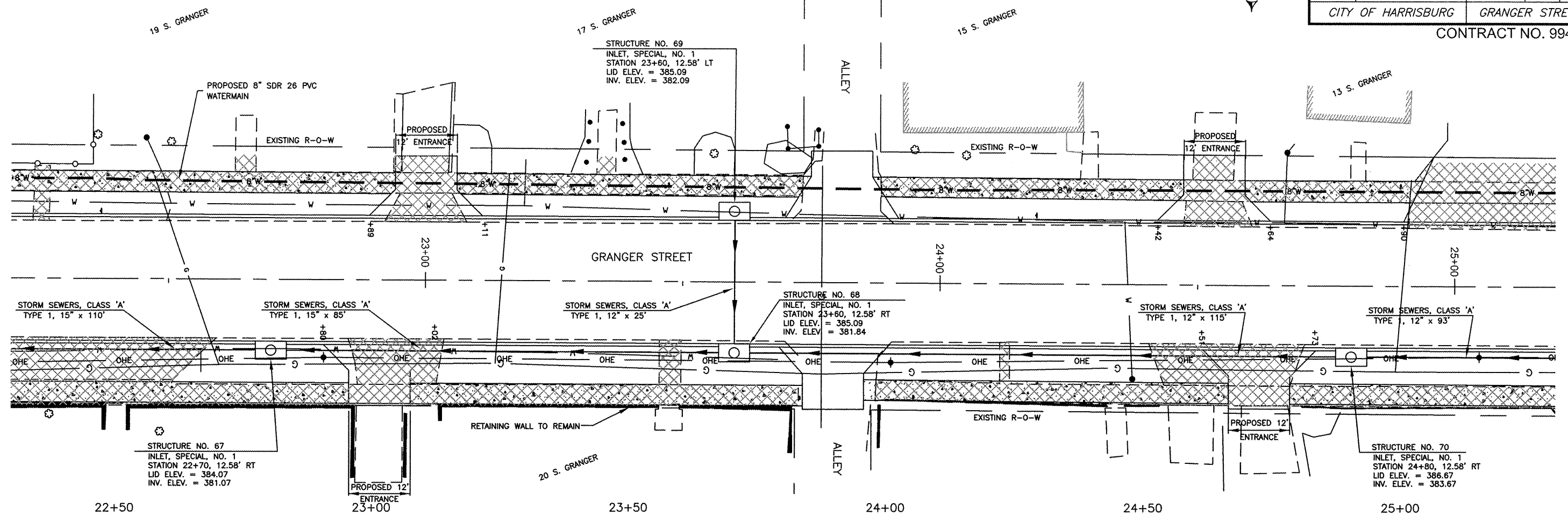
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ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CITY OF HARRISBURG		GRANGER STREET		

CONTRACT NO. 99439

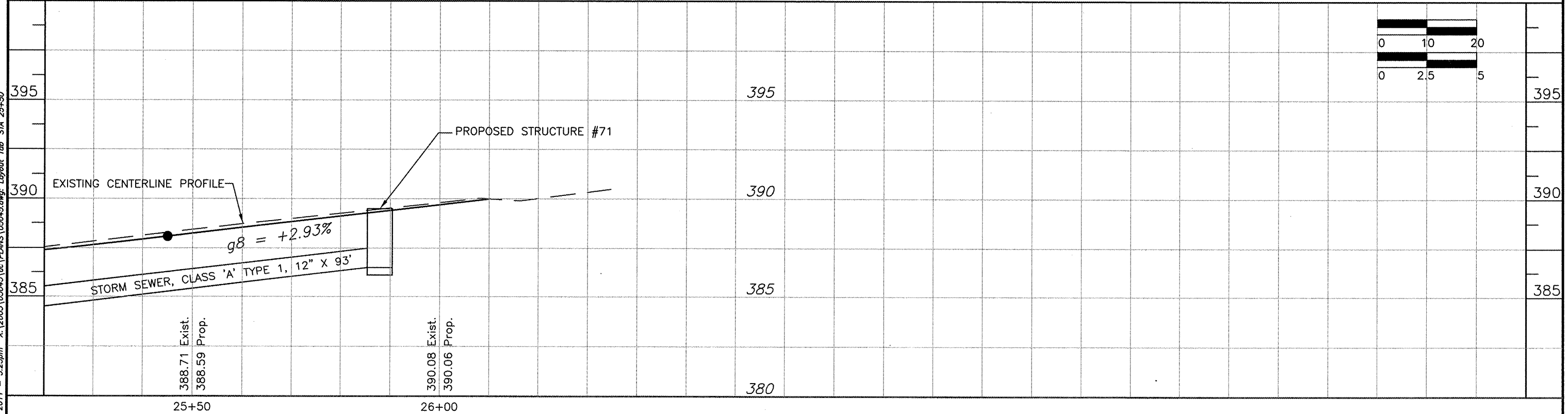
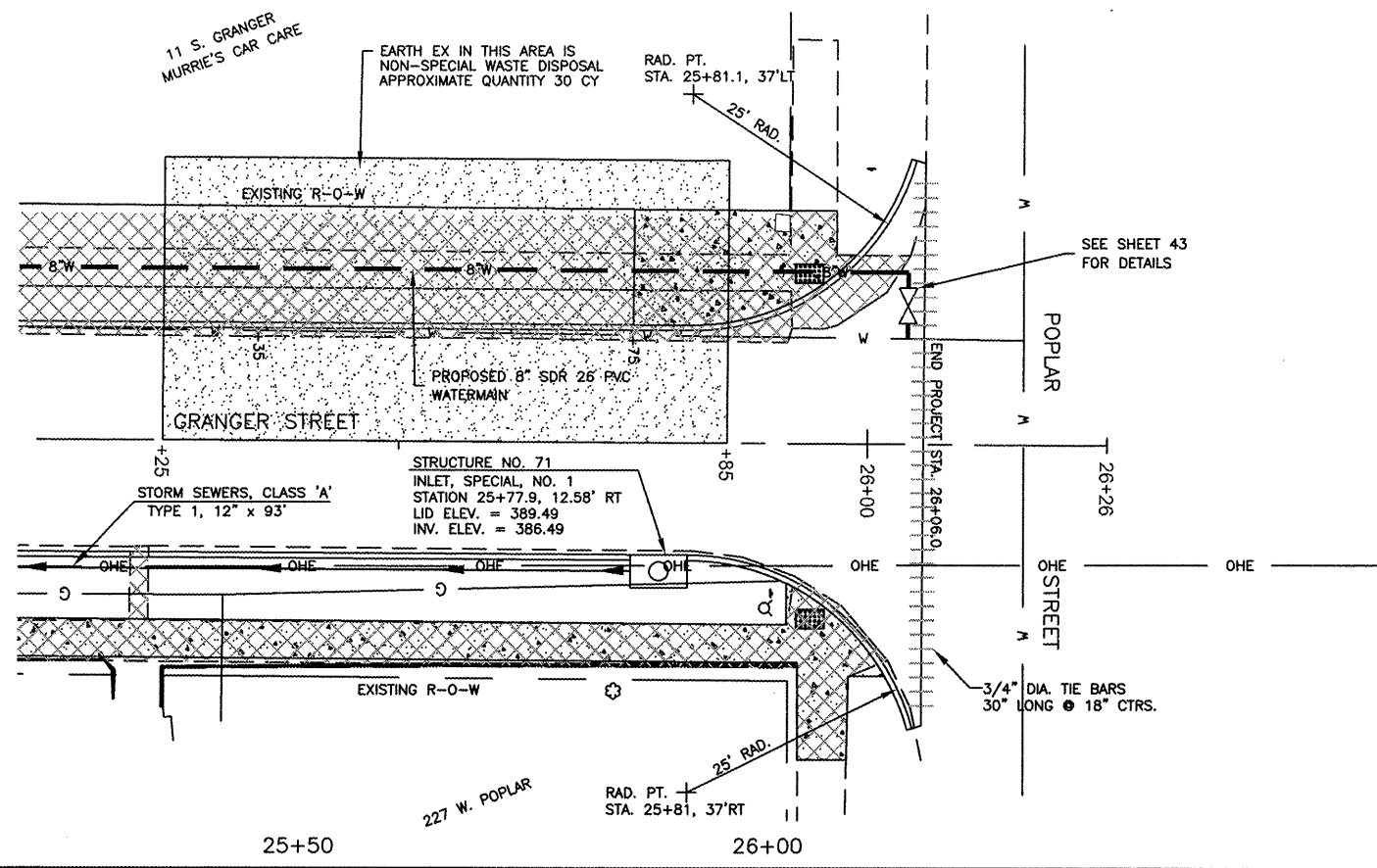


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ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CITY OF HARRISBURG		GRANGER STREET		

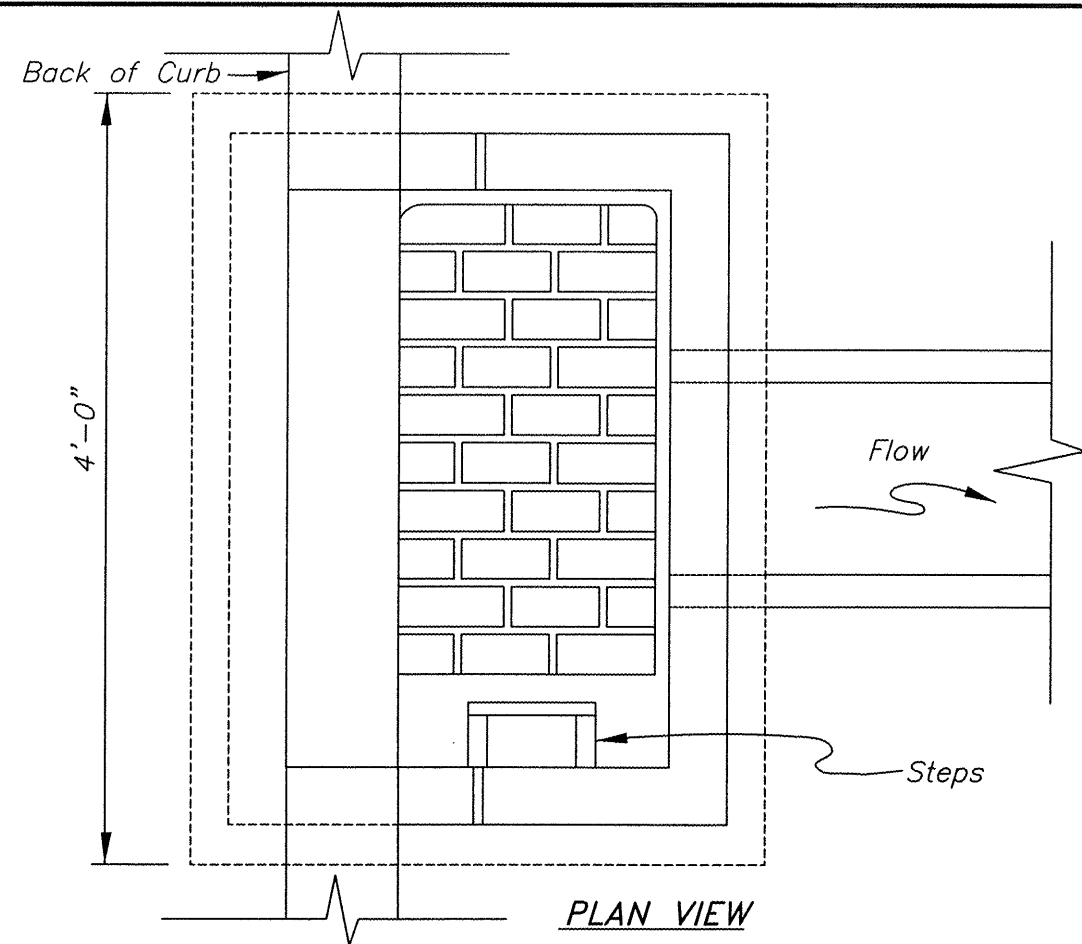
CONTRACT NO. 99439



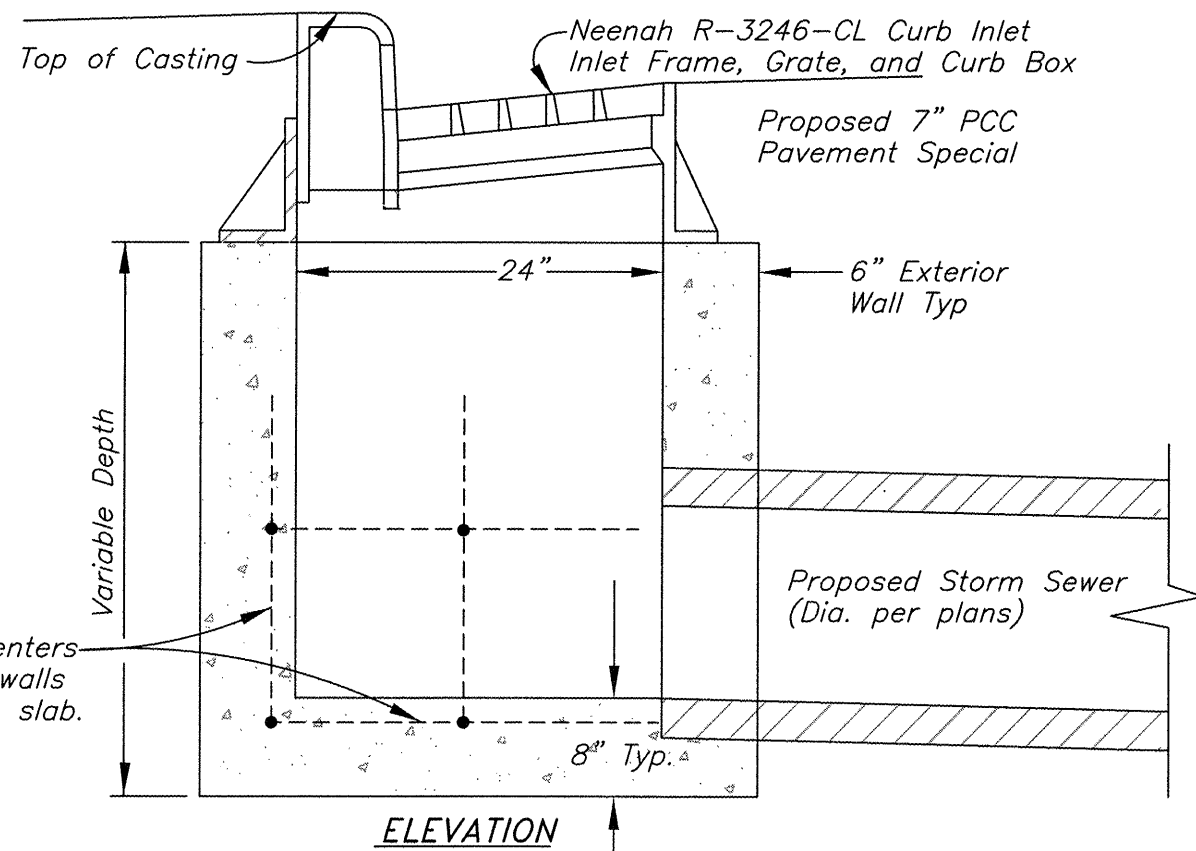
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ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CITY OF HARRISBURG		GRANGER STREET		

CONTRACT NO. 99439

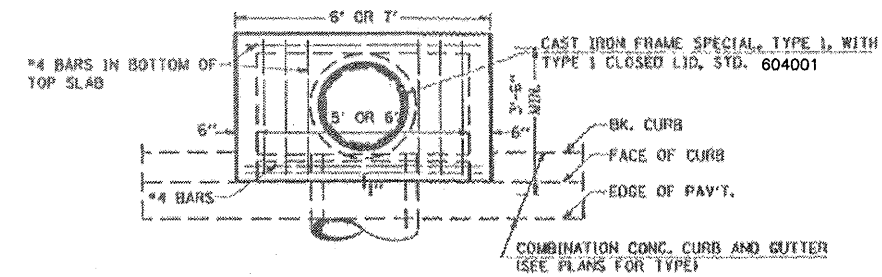


PLAN VIEW

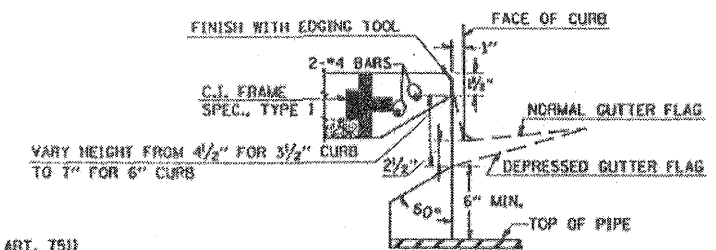


ELEVATION

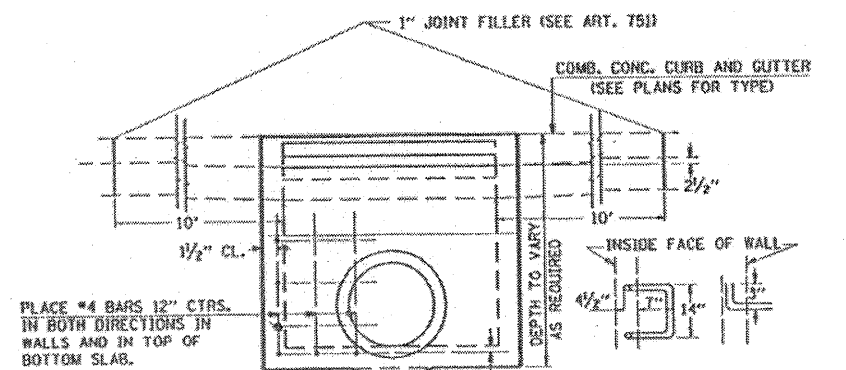
DETAIL - INLET TYPE A SPECIAL



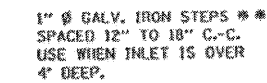
PLAN



DETAIL AT WEIR



ELEVATION



DESIGN	PIPE DIA.	"D"
A	18" BLESS	2'-6"
B	21" x 24"	3'-0"
C	27" x 30"	3'-7"
D	33" x 36"	4'-2"
E	42"	4'-9"
F	48"	5'-0"
G	54"	6'-1"

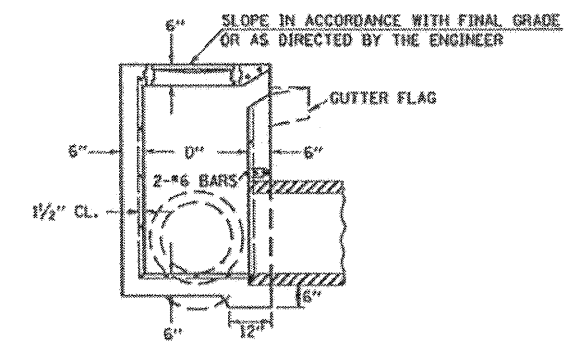
NOTES:

CLASS SJ CONCRETE SHALL BE USED THROUGHOUT. SET FACE OF INLET 1" BEHIND FACE OF CURB. DEPRESS GUTTER FLOWLINE AT INLET 2 1/2" BELOW NORMAL GUTTER FLOWLINE. CONSTRUCT TRANSITION IN FLOWLINE IN 10 FEET EACH SIDE OF INLET. PIPES TO BE CONNECTED TO INLET AS SHOWN ON STORM SEWER LAYOUT.

INLETS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR INLET, SPECIAL, TYPE 3, 5 FEET OR INLET, SPECIAL, TYPE 3, 6 FEET WHICH PRICE SHALL INCLUDE THE CAST IRON FRAME, SPECIAL, TYPE 1 WITH TYPE 1 CLOSED LID, THE REINFORCEMENT BARS, METAL STEPS AND JOINT FILLER.

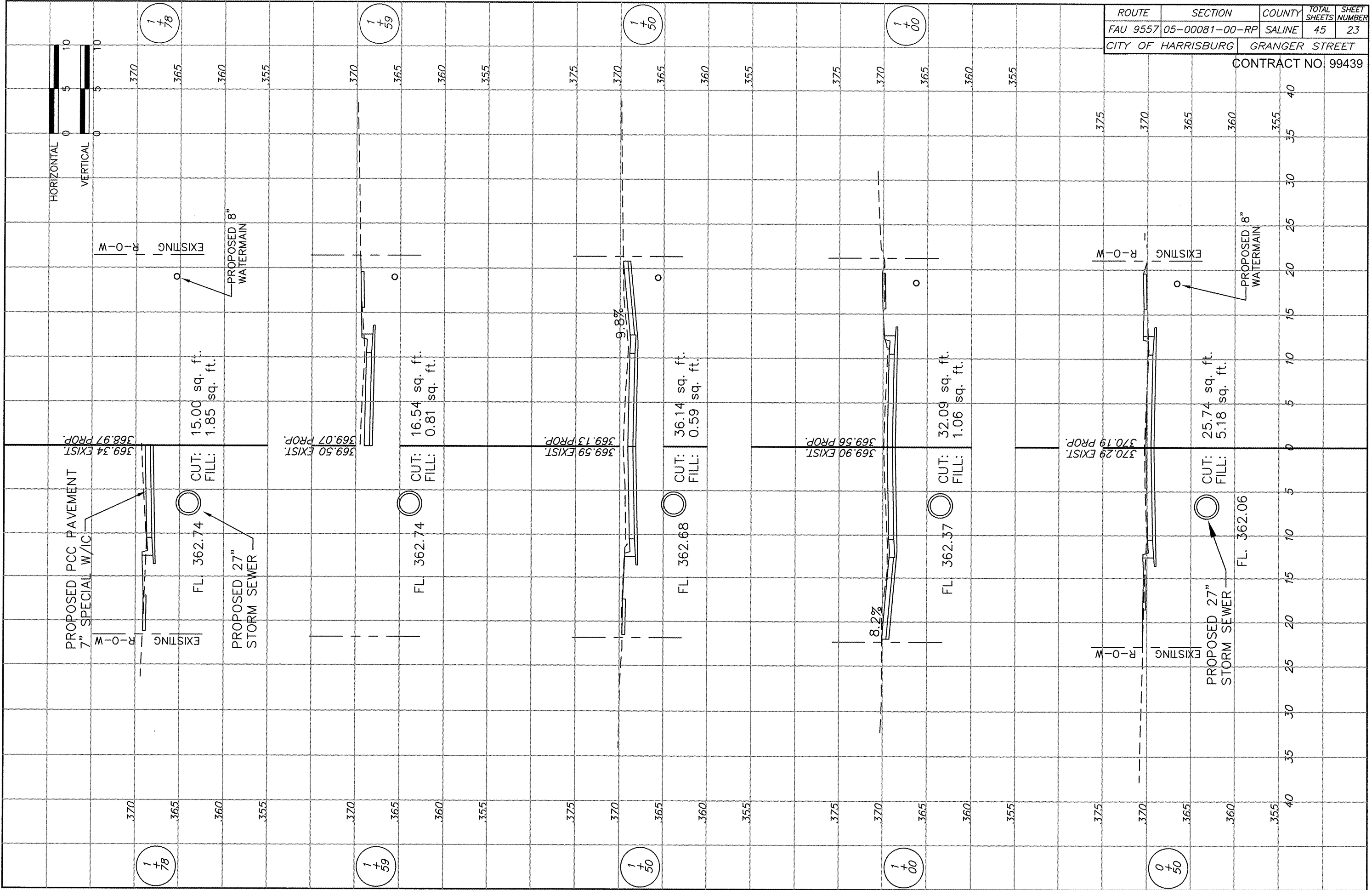
\*THE GALV. IRON STEPS AS DETAILED HEREON ARE TYPICAL. STEPS OF OTHER DESIGN AND MATERIAL THAT WILL CONFORM TO THE MINIMUM REQUIREMENTS OF THE STEPS SHOWN, MAY BE USED WHEN APPROVED BY THE ENGINEER.

INLETS MAY BE PRECAST WHEN APPROVED BY THE ENGINEER.



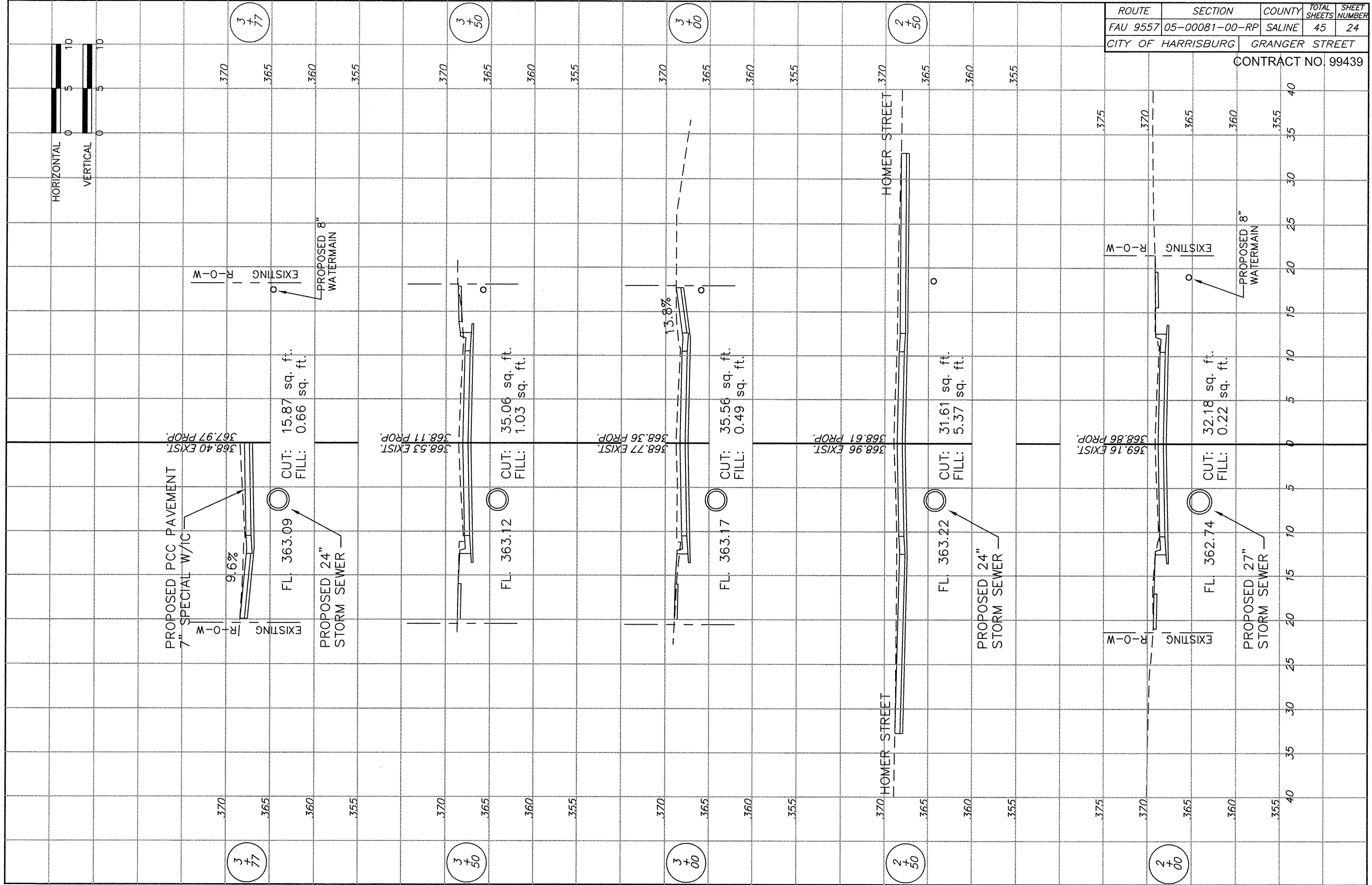
SECTION

DETAIL - INLETS, SPECIAL, NO. 1 AND INLETS, SPECIAL, NO. 2



ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAU 9557	05-00081-00-RP	SALINE	45	23
CITY OF HARRISBURG		GRANGER STREET		

CONTRACT NO. 99439



ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAU 9557	05-00081-00-RP	SALINE	45	24

CITY OF HARRISBURG GRANGER STREET

CONTRACT NO. 99439



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77

3  
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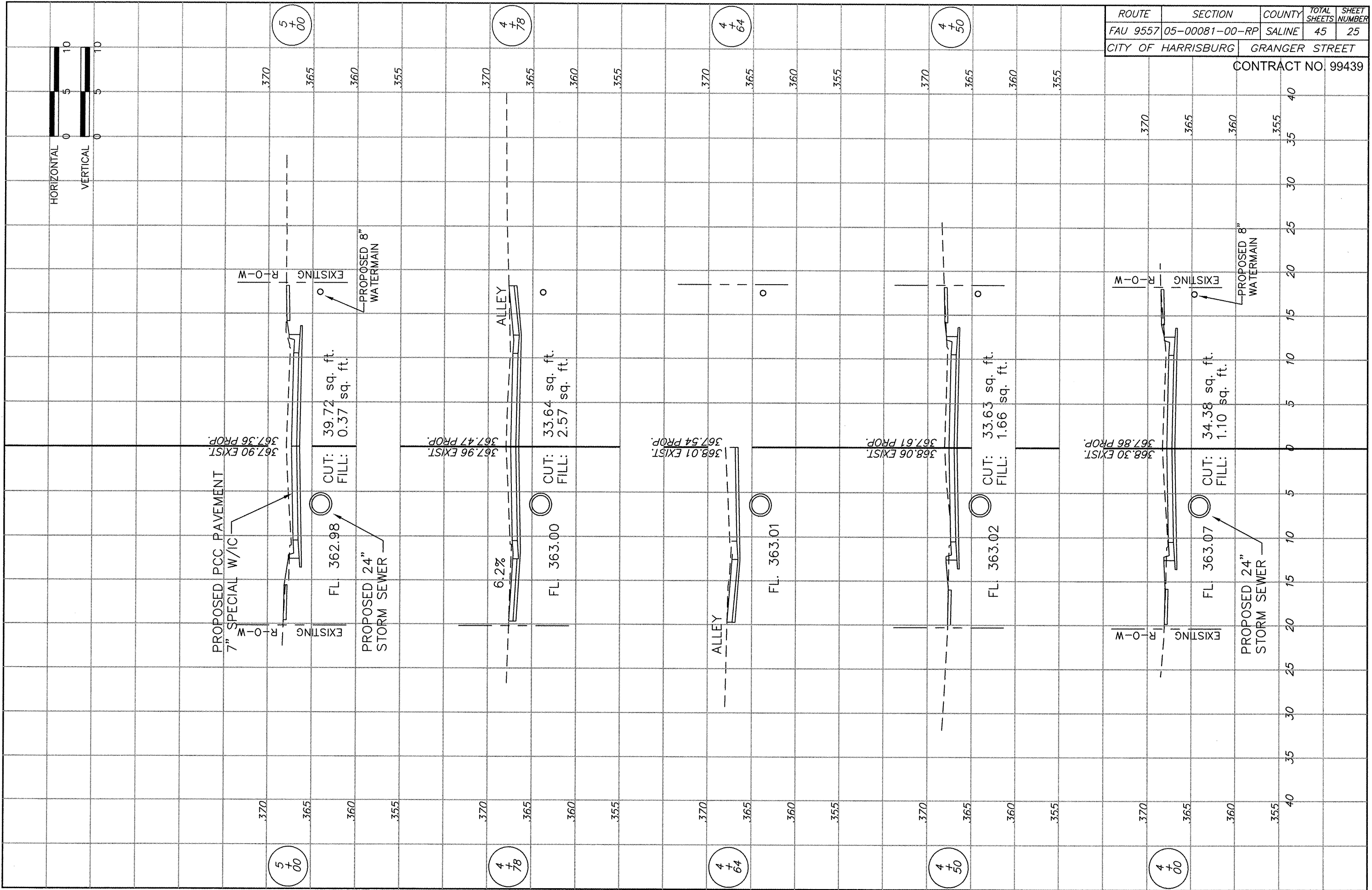
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2  
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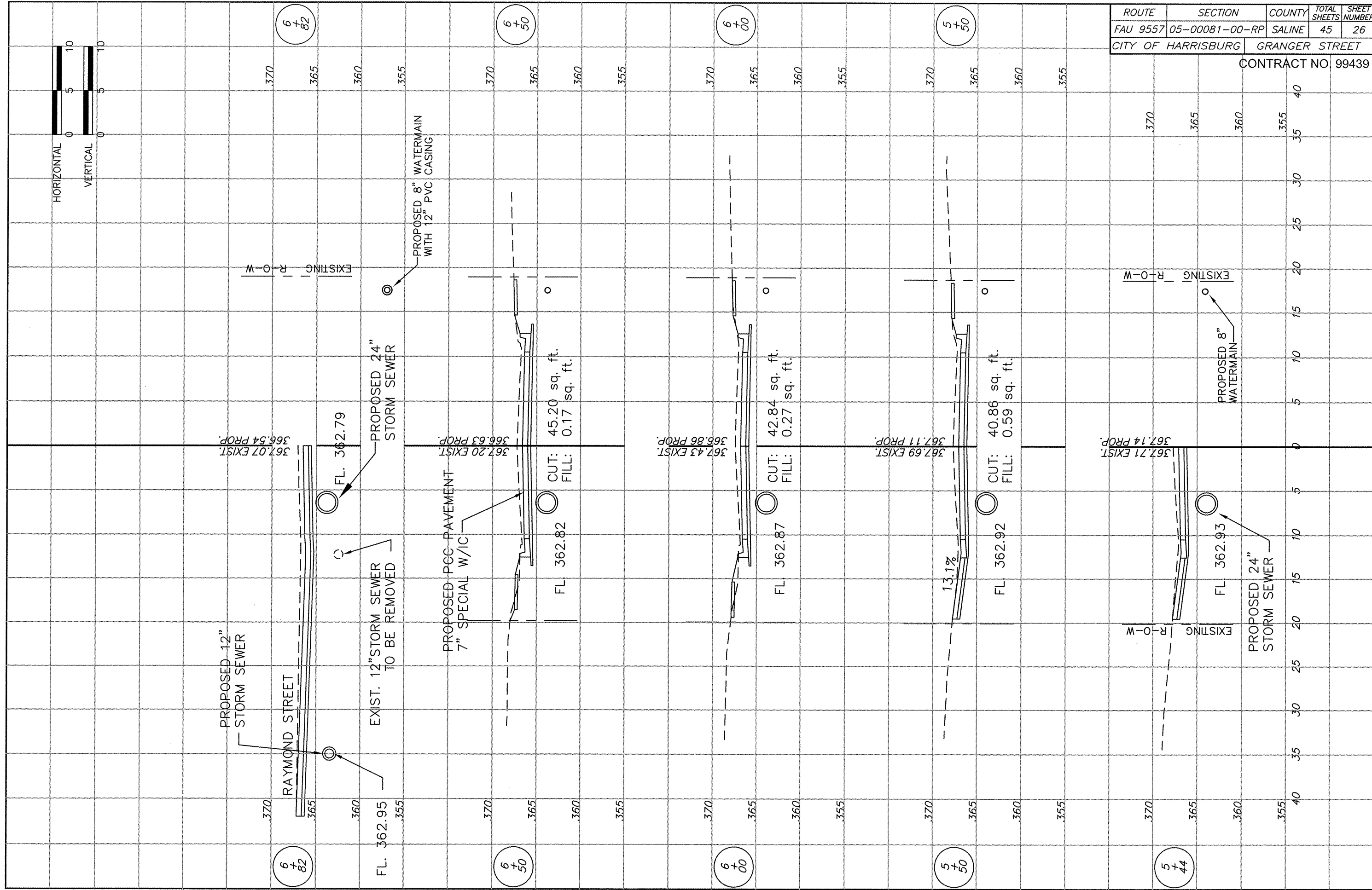
2  
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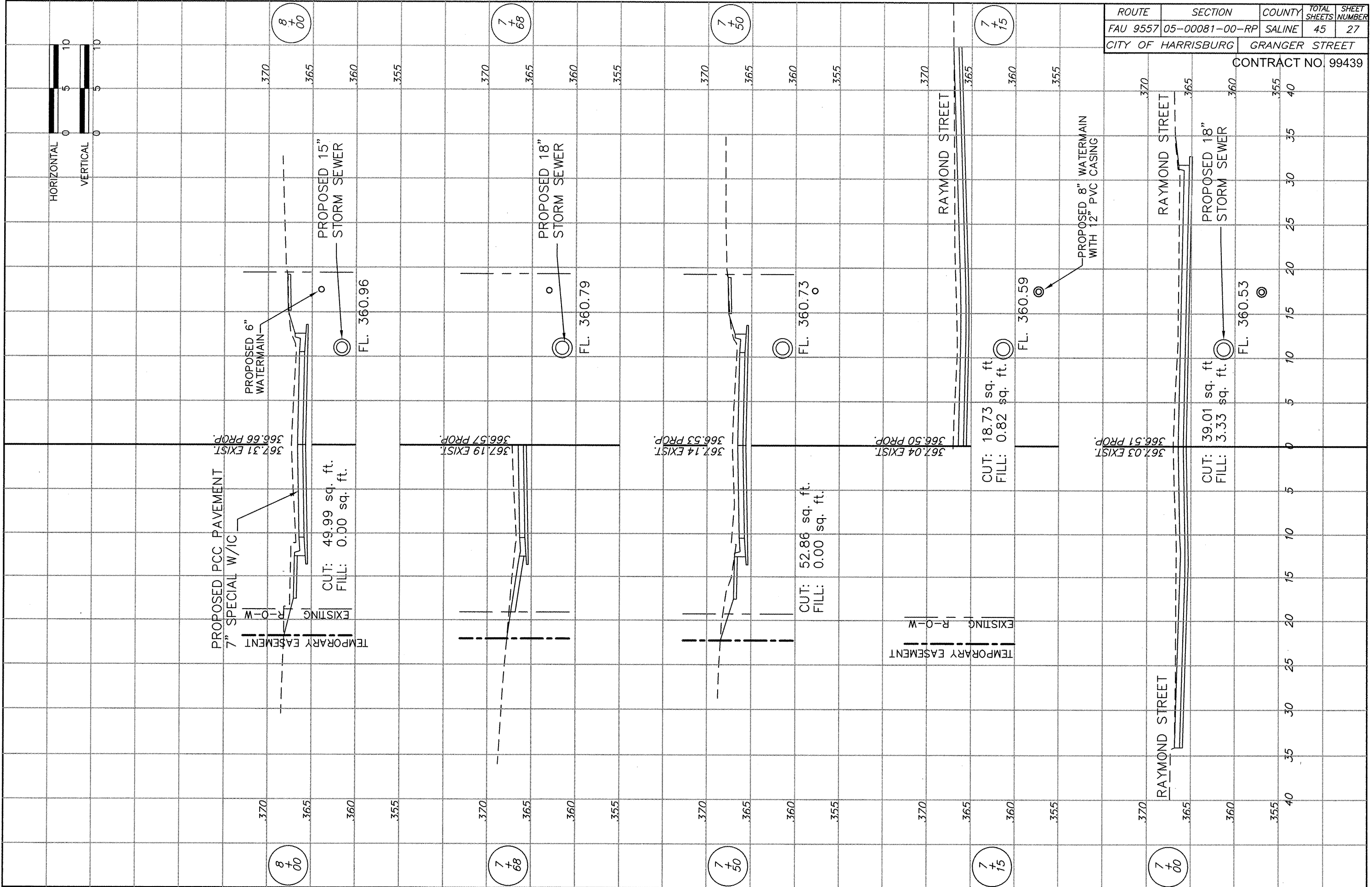




ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAU 9557	05-00081-00-RP	SALINE	45	25
CITY OF HARRISBURG		GRANGER STREET		

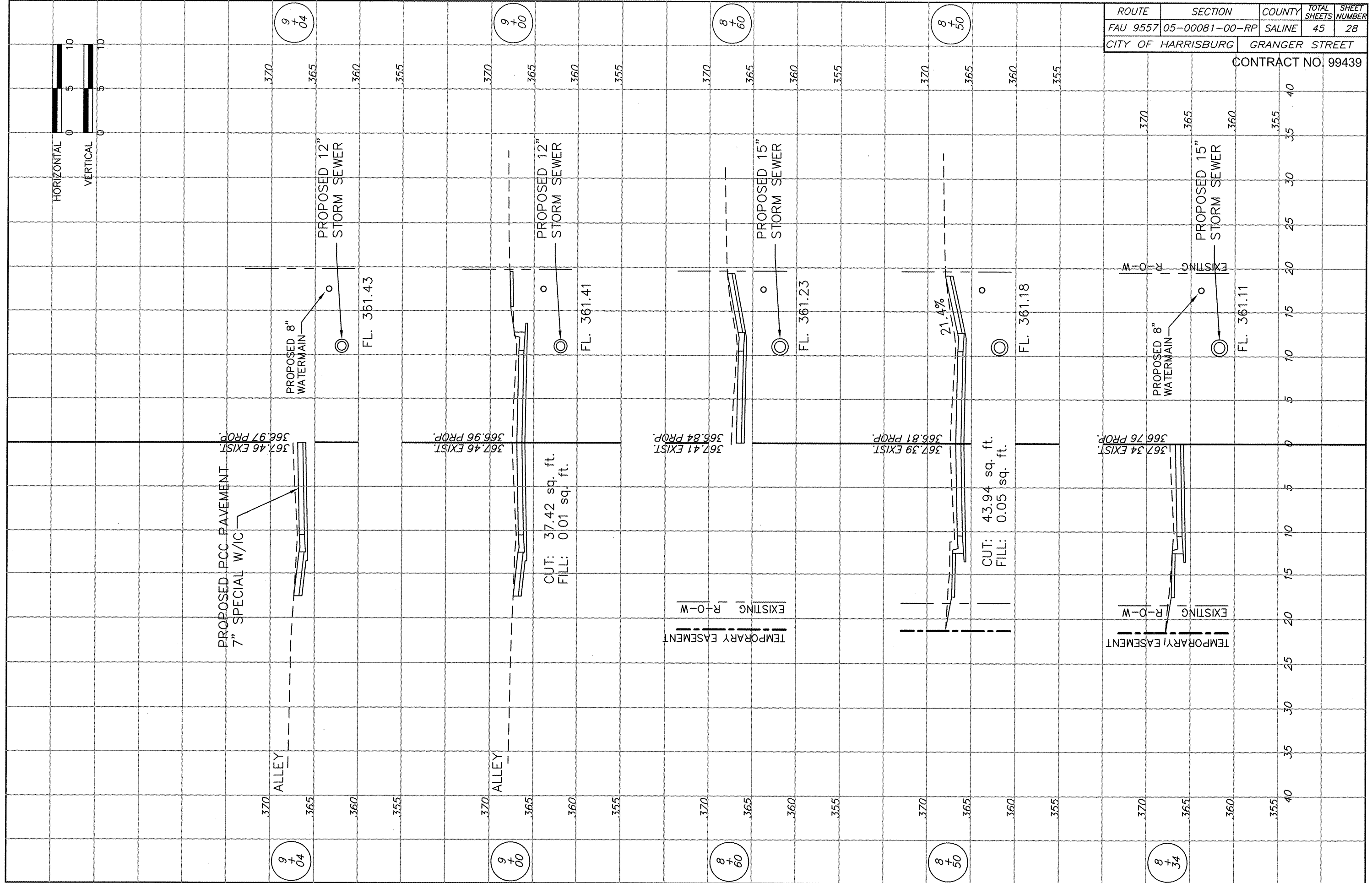
CONTRACT NO. 99439

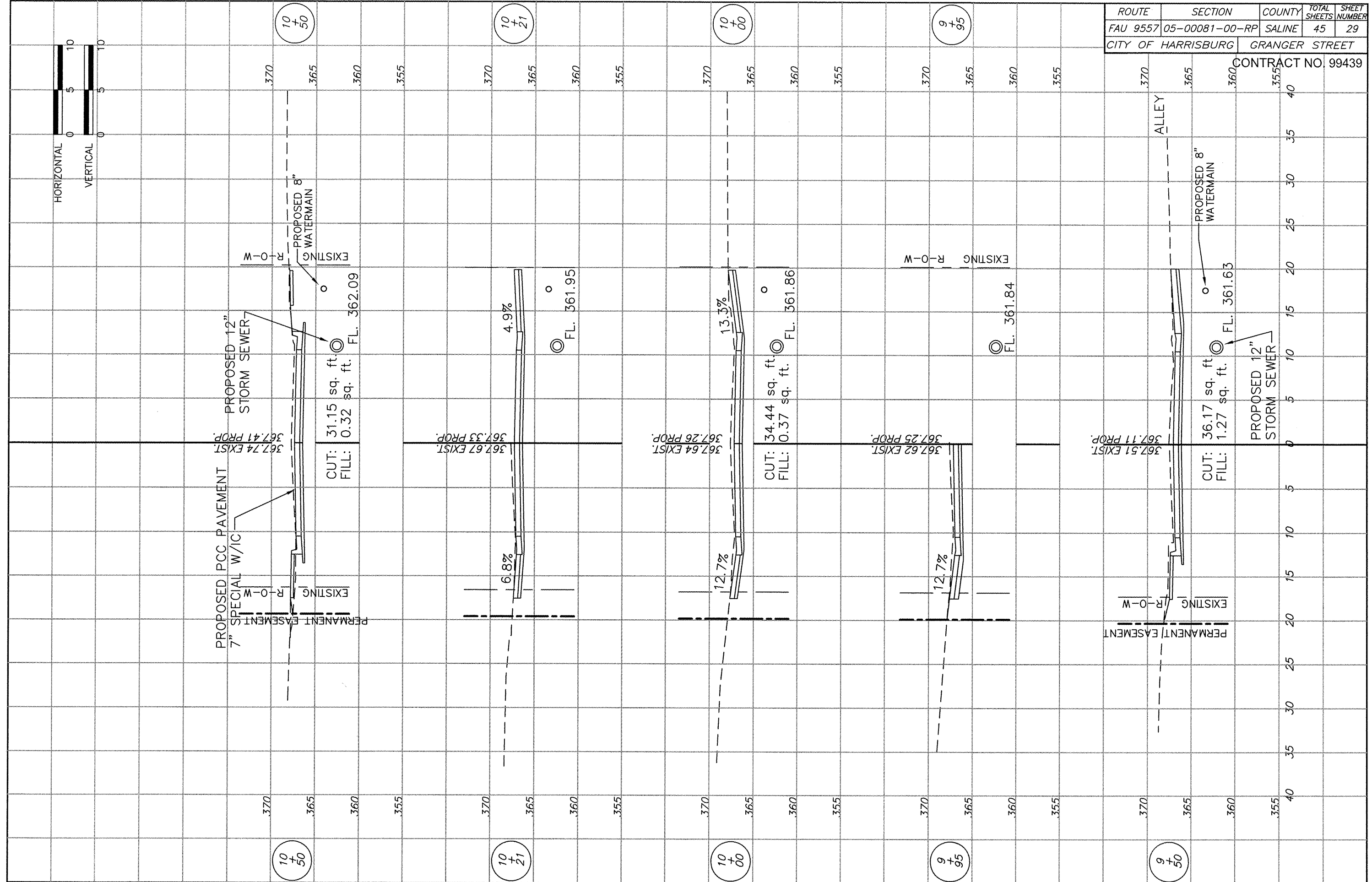


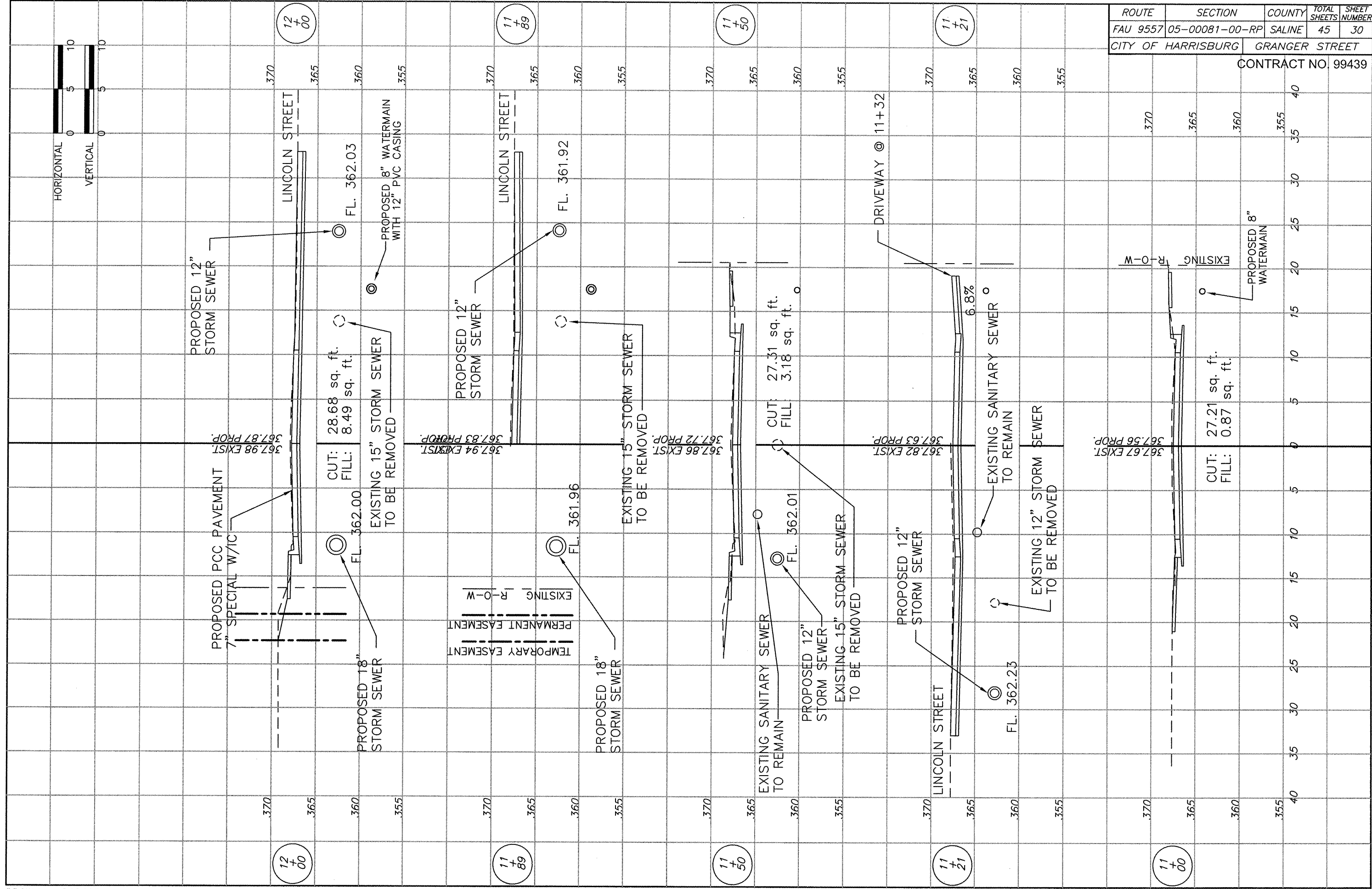


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FAU 9557	05-00081-00-RP	SALINE	45	27
CITY OF HARRISBURG		GRANGER STREET		

CONTRACT NO. 99439

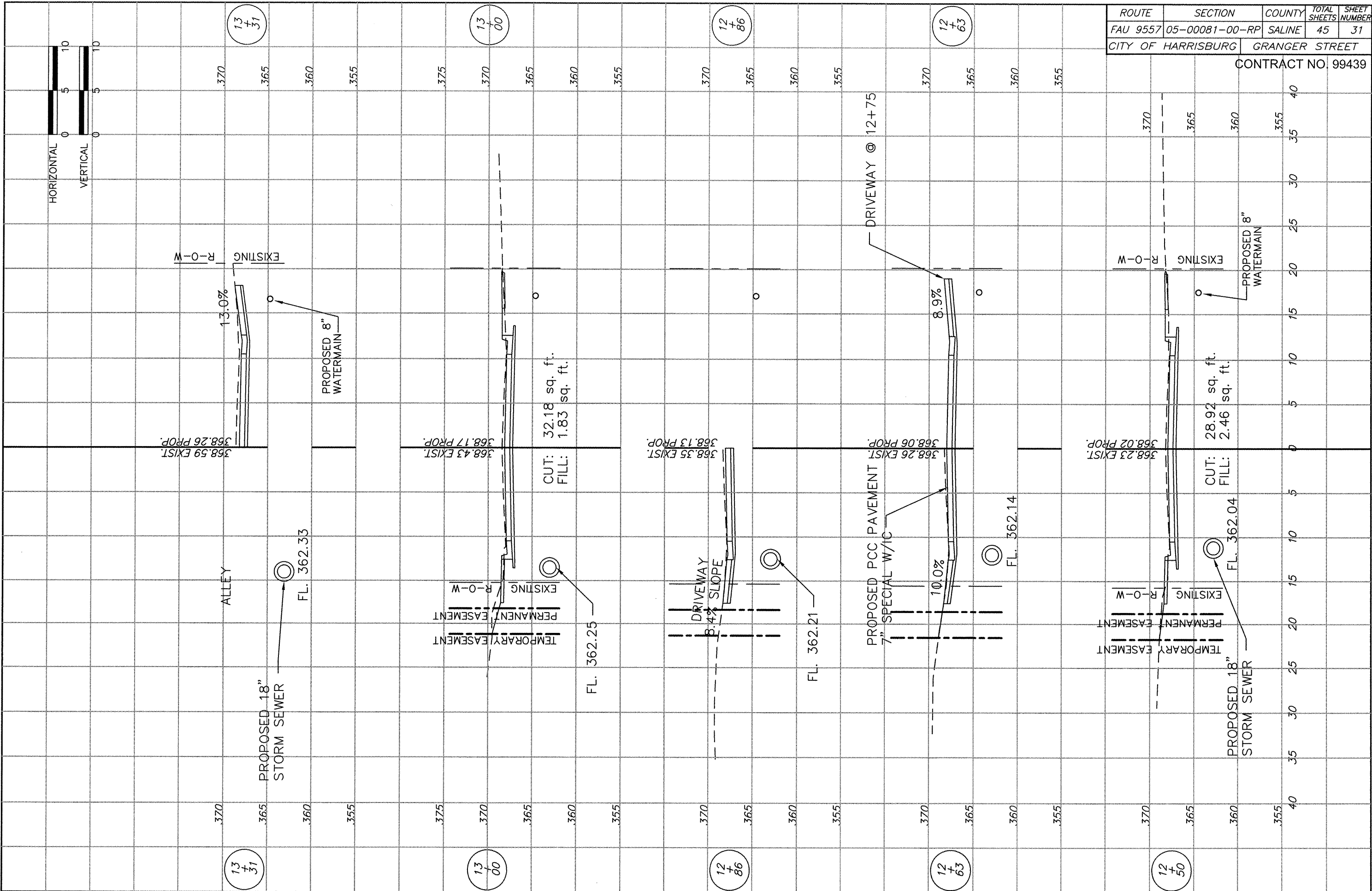


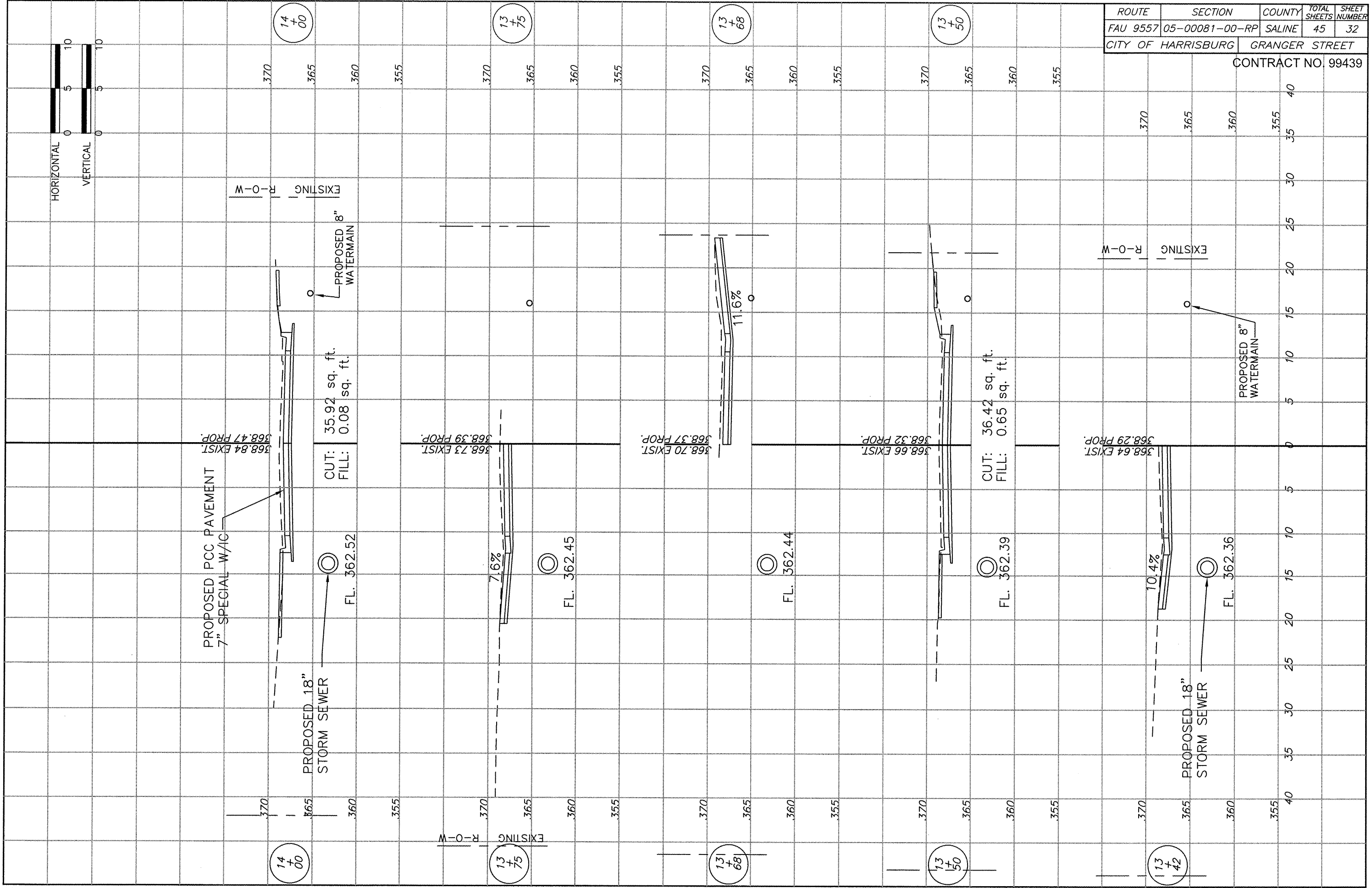




ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAU 9557	05-00081-00-RP	SALINE	45	31
CITY OF HARRISBURG		GRANGER STREET		

CONTRACT NO. 99439

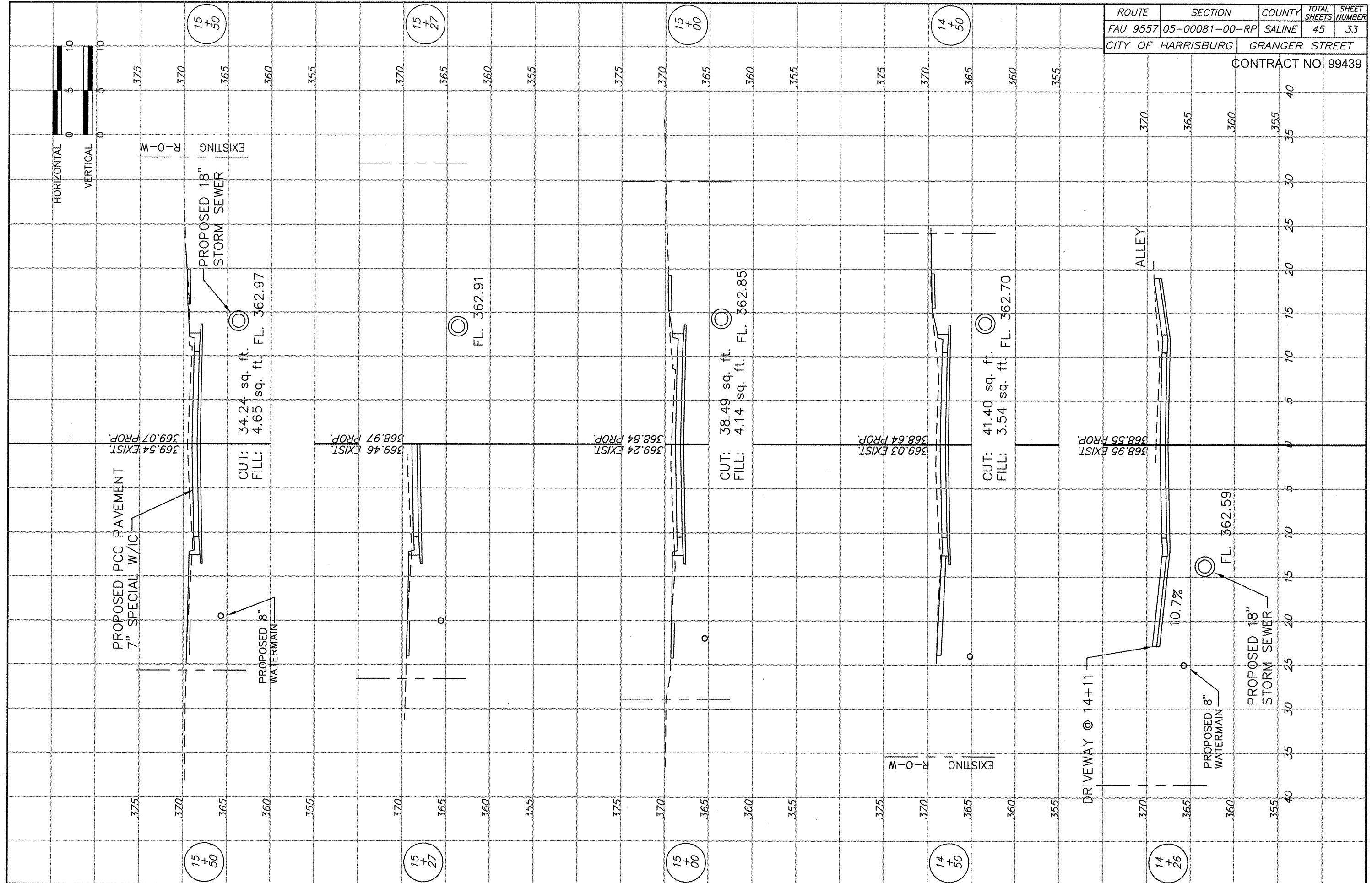




ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAU 9557	05-00081-00-RP	SALINE	45	32
CITY OF HARRISBURG		GRANGER STREET		

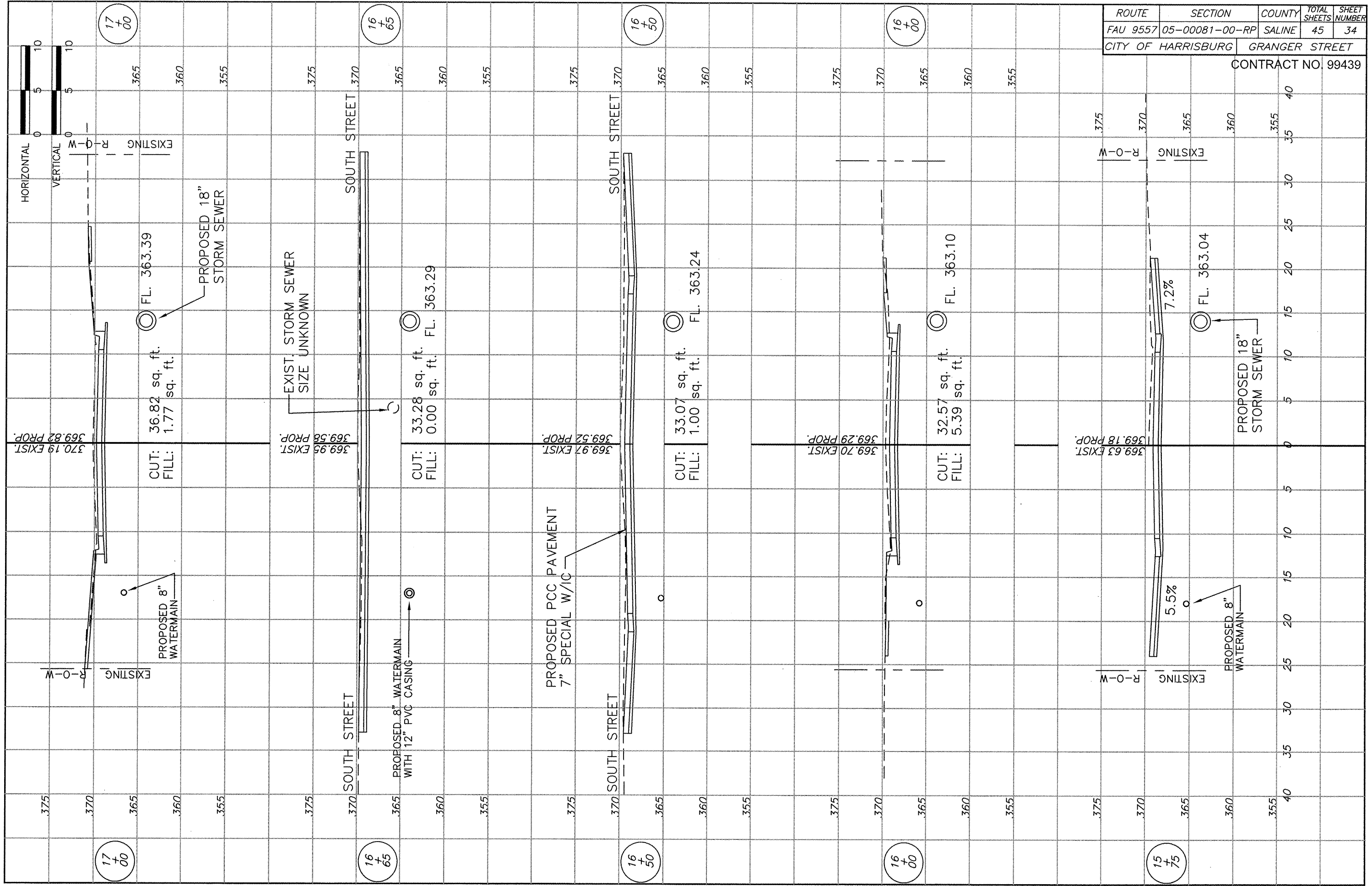
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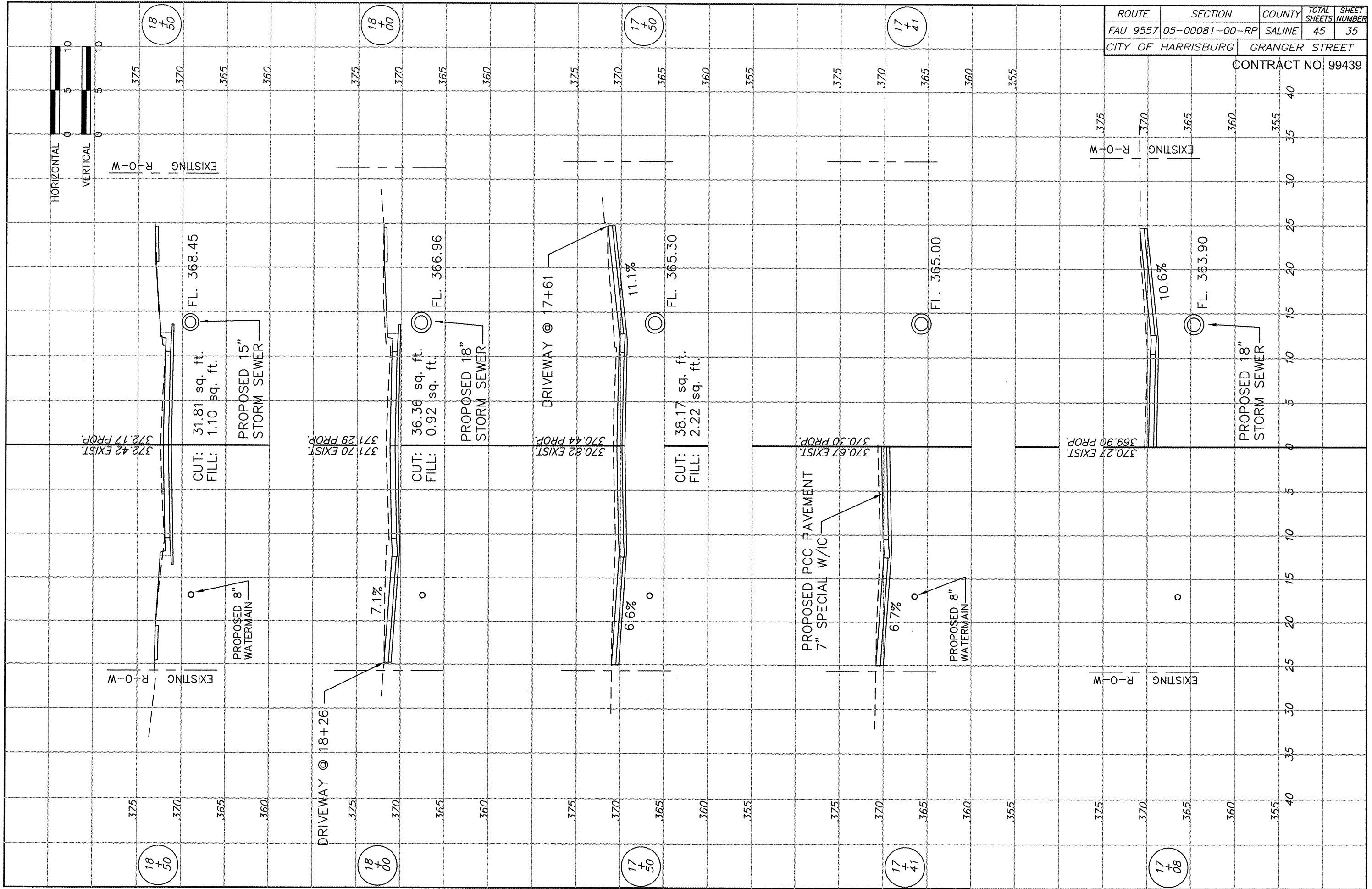




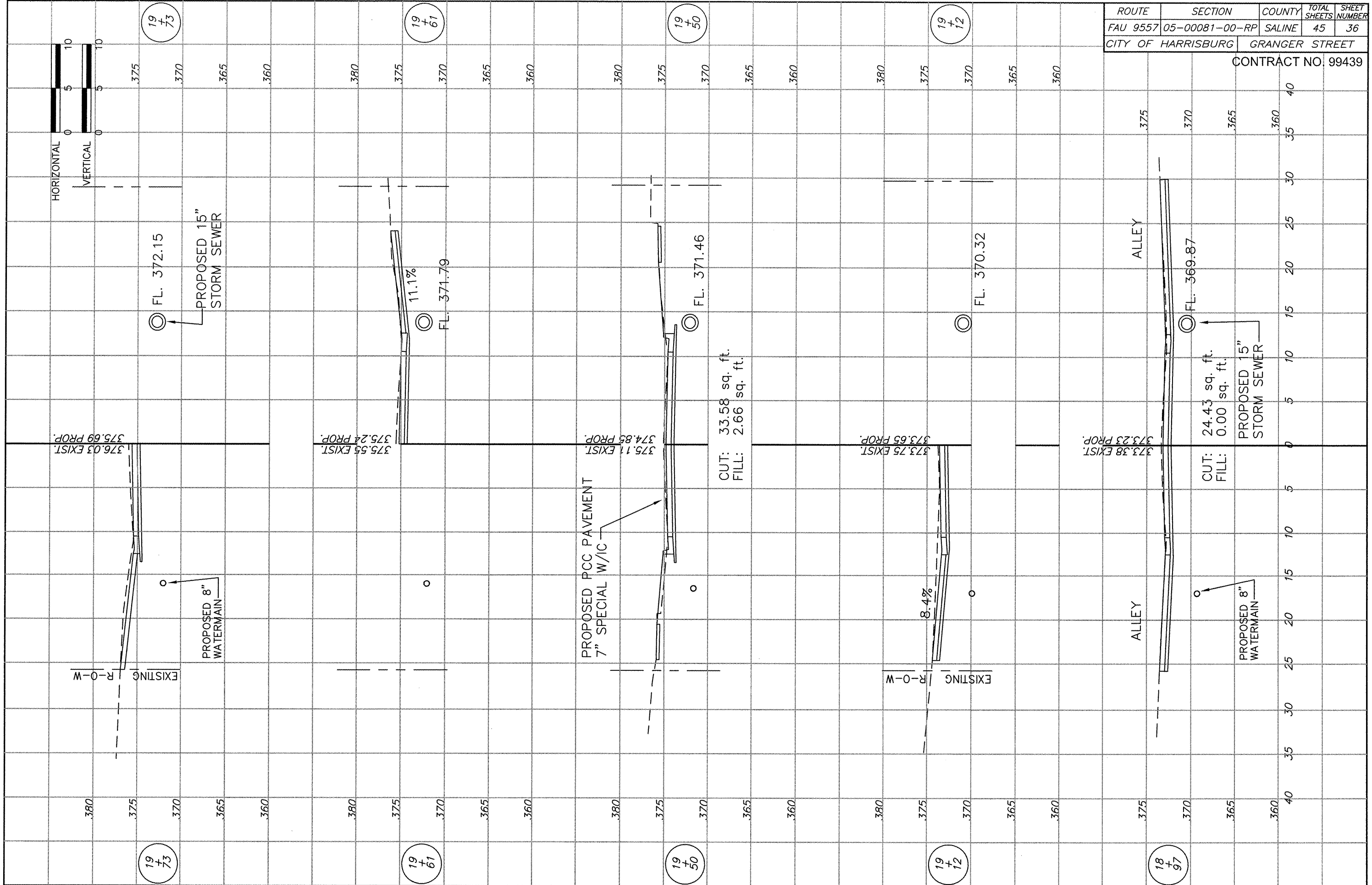
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CITY OF HARRISBURG		GRANGER STREET		

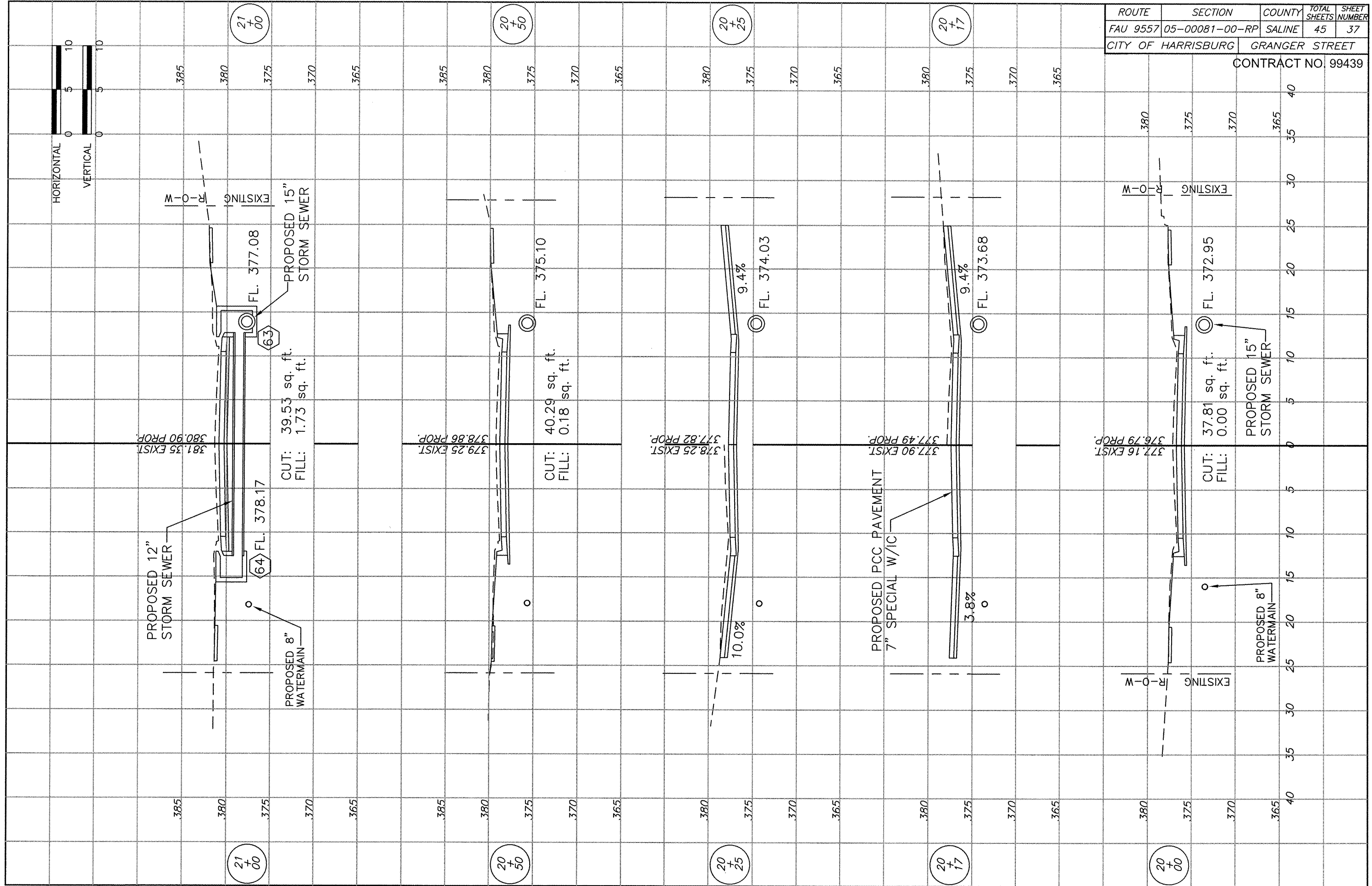
CONTRACT NO. 99439





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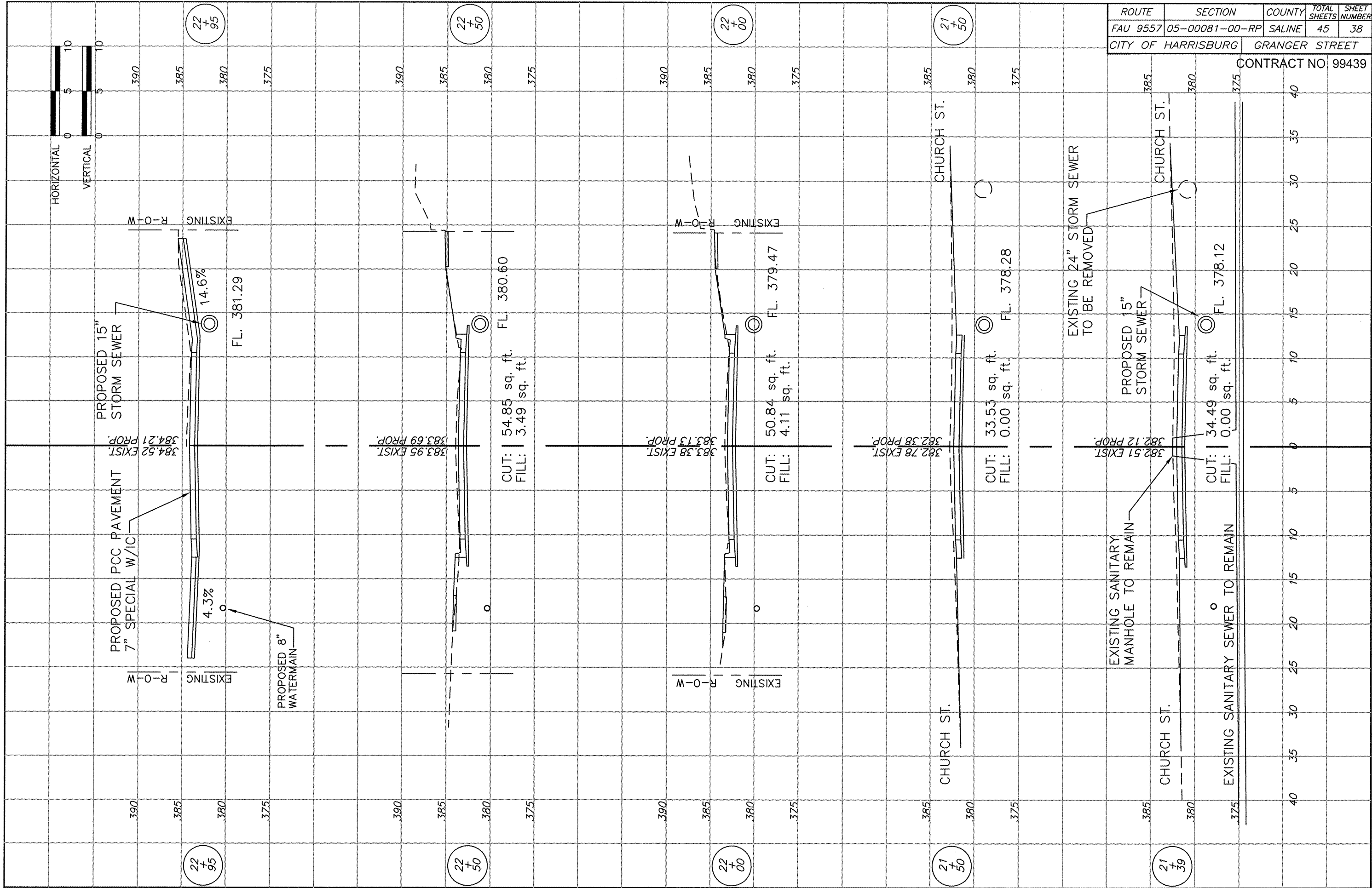




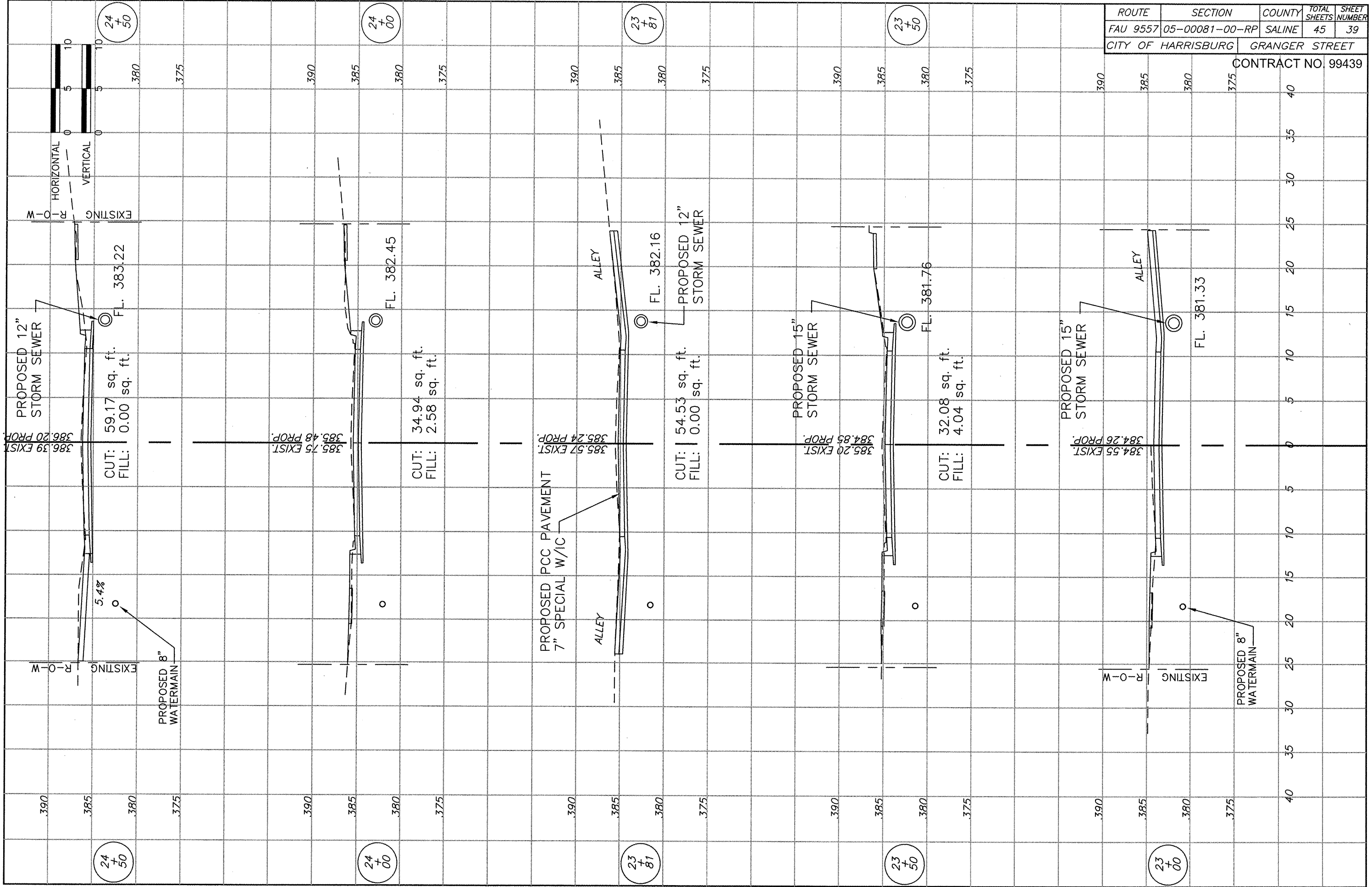
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FAU 9557	05-00081-00-RP	SALINE	45	37

CITY OF HARRISBURG GRANGER STREET

CONTRACT NO. 99439

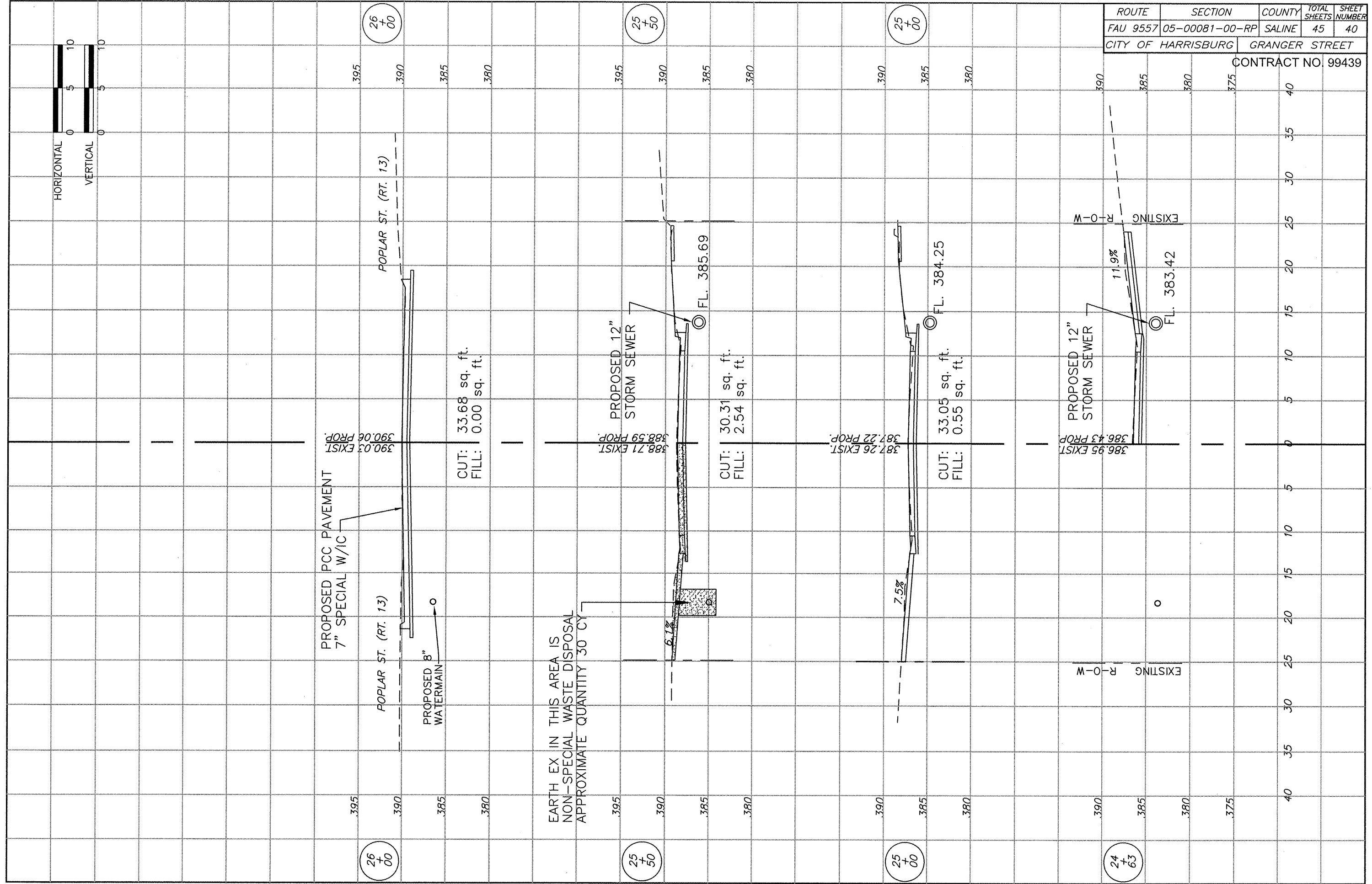


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ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
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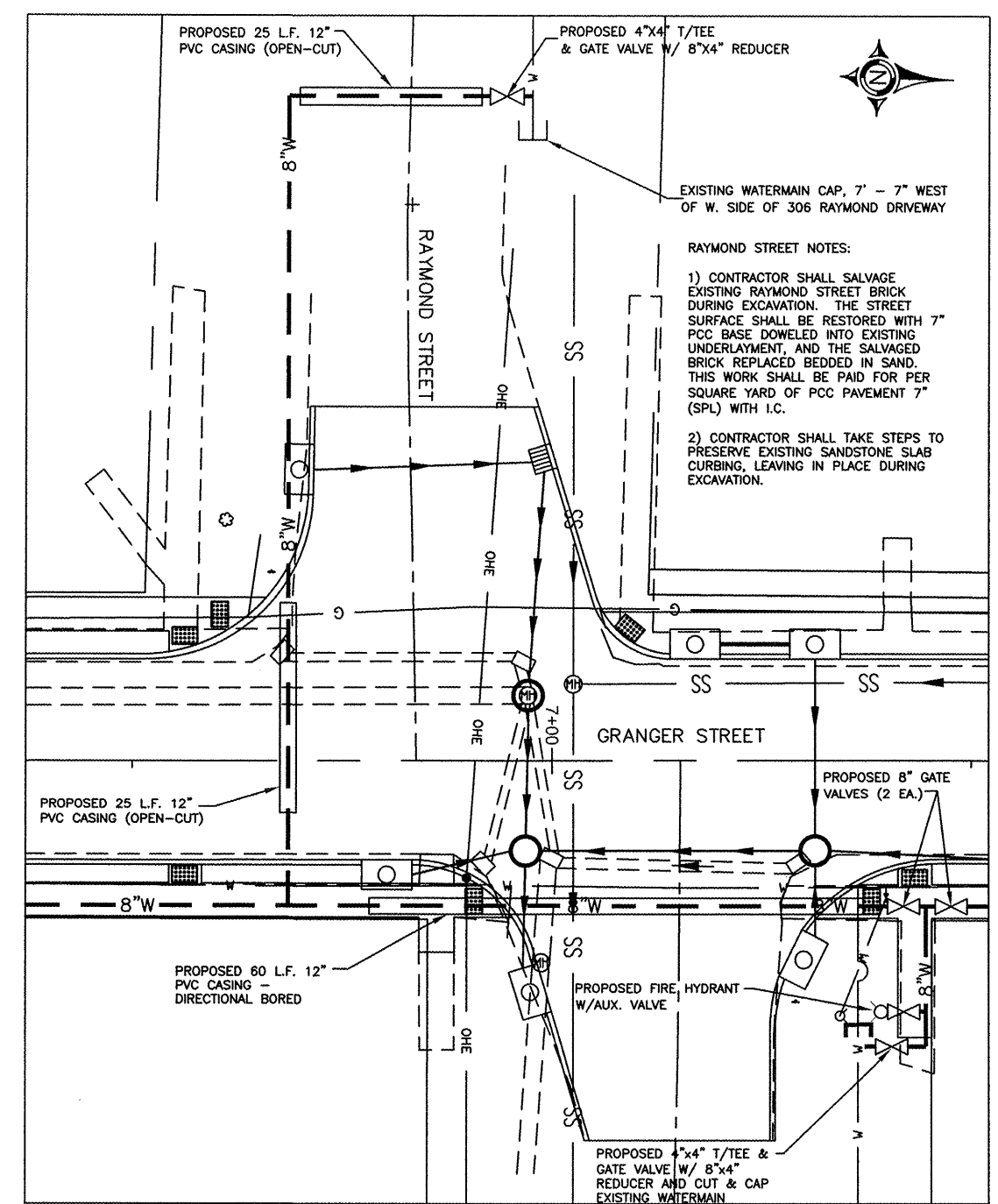
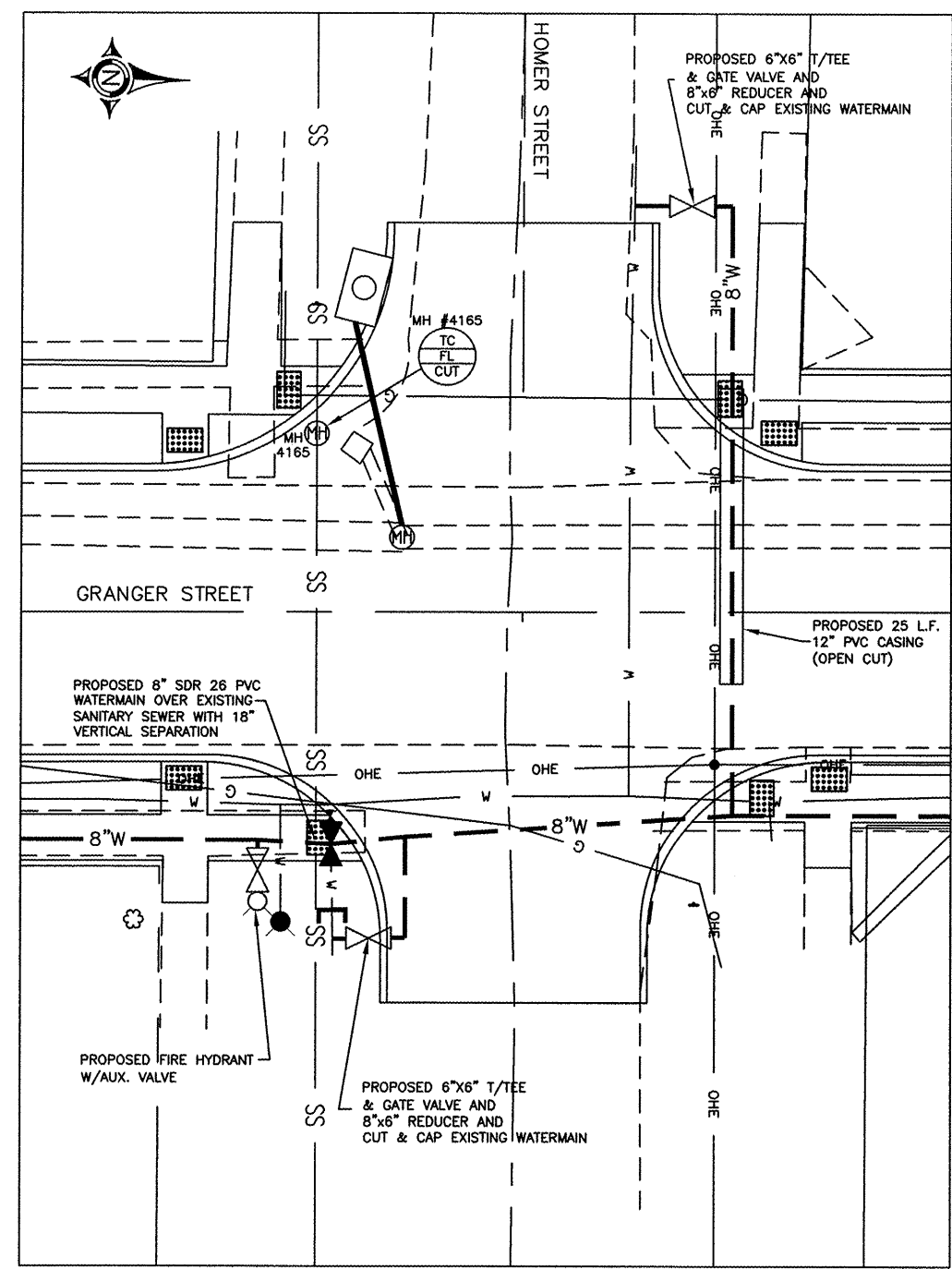
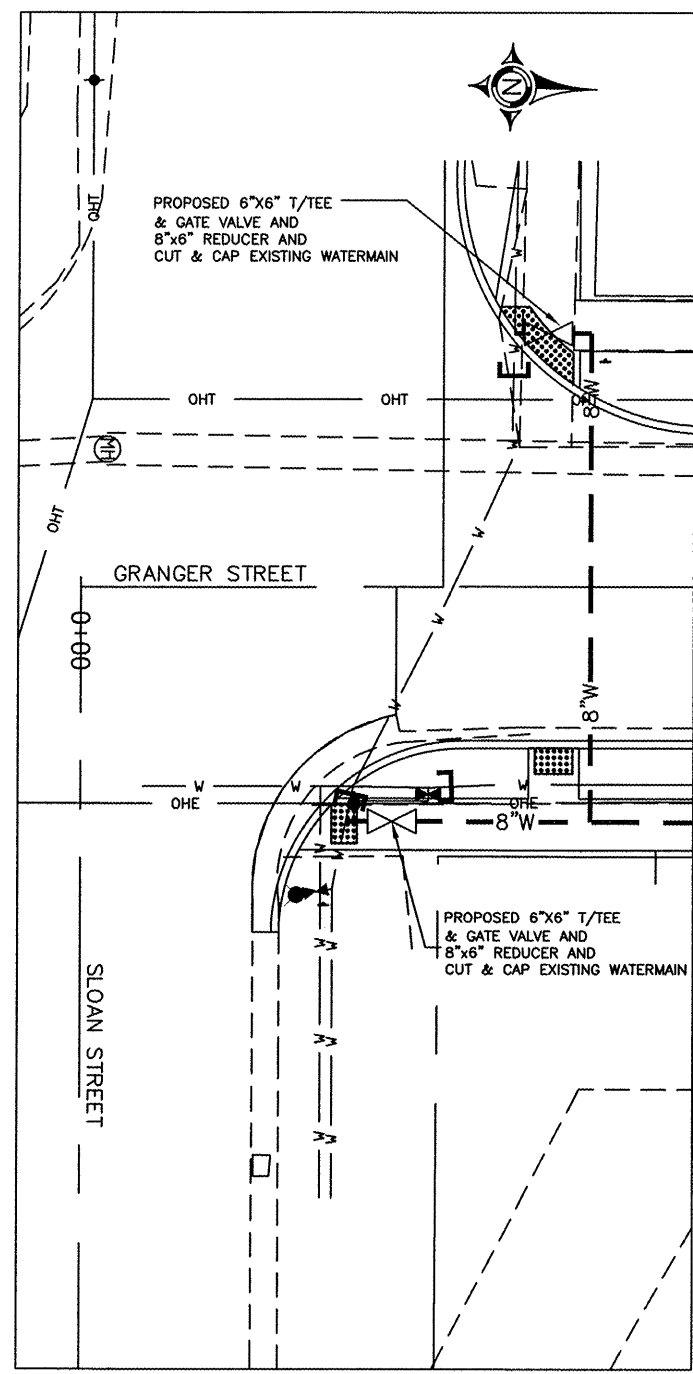
CITY OF HARRISBURG GRANGER STREET CONTRACT NO. 99439





ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9557	05-00081-00-RP	SALINE	45	41
CITY OF HARRISBURG		GRANGER STREET		

CONTRACT NO. 99439



EXISTING WATERMAIN CAP, 7' - 7" WEST OF W. SIDE OF 306 RAYMOND DRIVEWAY

RAYMOND STREET NOTES:

- 1) CONTRACTOR SHALL SALVAGE EXISTING RAYMOND STREET BRICK DURING EXCAVATION. THE STREET SURFACE SHALL BE RESTORED WITH 7" PCC BASE DOWELED INTO EXISTING UNDERLAYMENT, AND THE SALVAGED BRICK REPLACED BEDDED IN SAND. THIS WORK SHALL BE PAID FOR PER SQUARE YARD OF PCC PAVEMENT 7" (SPL) WITH I.C.
- 2) CONTRACTOR SHALL TAKE STEPS TO PRESERVE EXISTING SANDSTONE SLAB CURBING, LEAVING IN PLACE DURING EXCAVATION.

### LEGEND

PROPOSED CUT AND CAP

PROPOSED GATE VALVE

EXISTING GATE VALVE

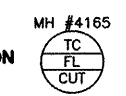
PROPOSED FLUSHING HYDRANT

EXISTING FLUSHING HYDRANT

PROPOSED 8" WATERMAIN

EXISTING WATERMAIN

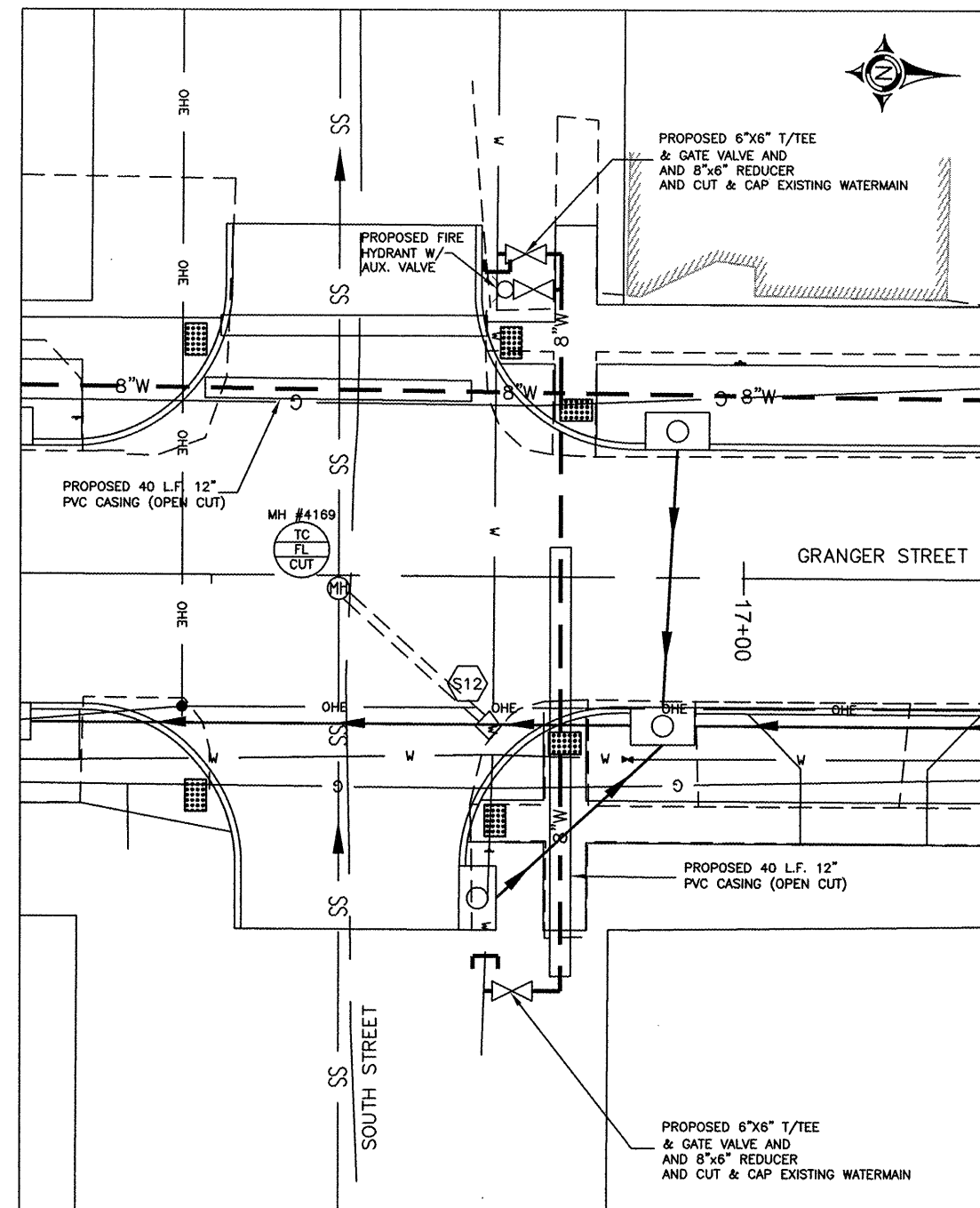
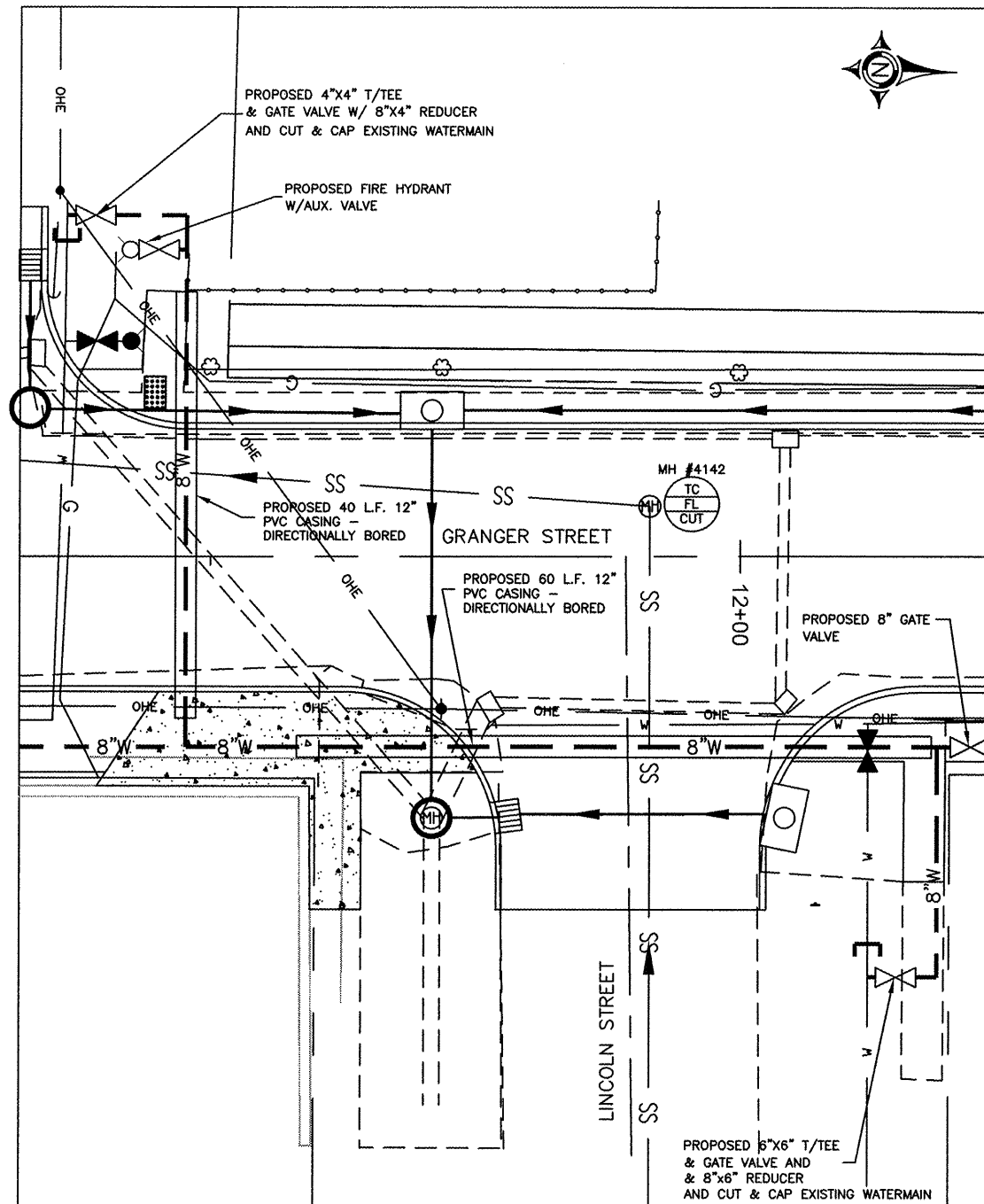
MANHOLE INFORMATION



11 May 2011 - 3:40pm X:\2005\05045\loc\PLANS\05045.dwg: Layout Tab 'Intersection detail 1'

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9557	05-00081-00-RP	SALINE	45	42
CITY OF HARRISBURG		GRANGER STREET		

CONTRACT NO. 99439



### LEGEND

PROPOSED CUT AND CAP

PROPOSED GATE VALVE

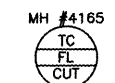
PROPOSED FLUSHING HYDRANT

PROPOSED 8" WATERMAIN

EXISTING GATE VALVE

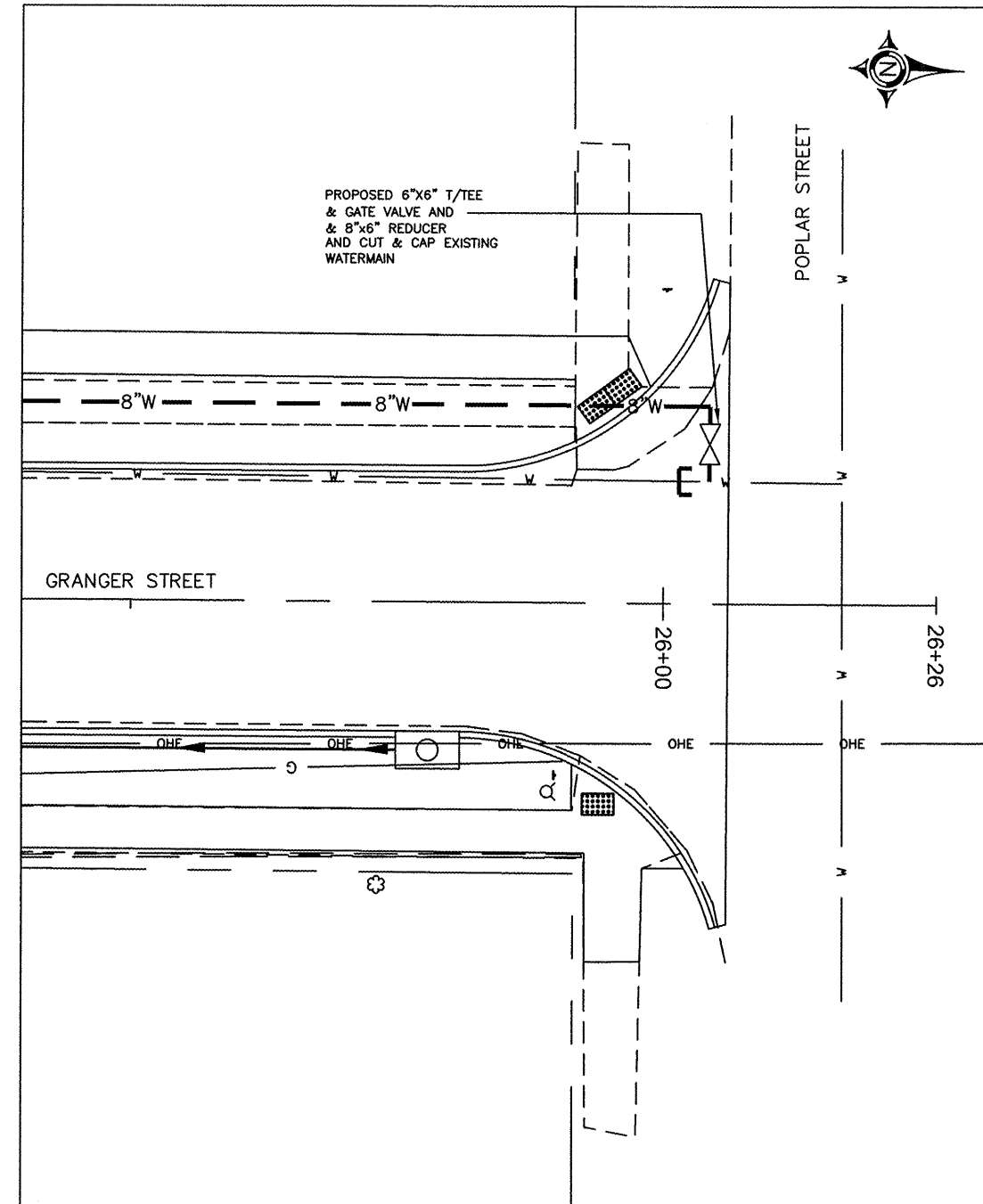
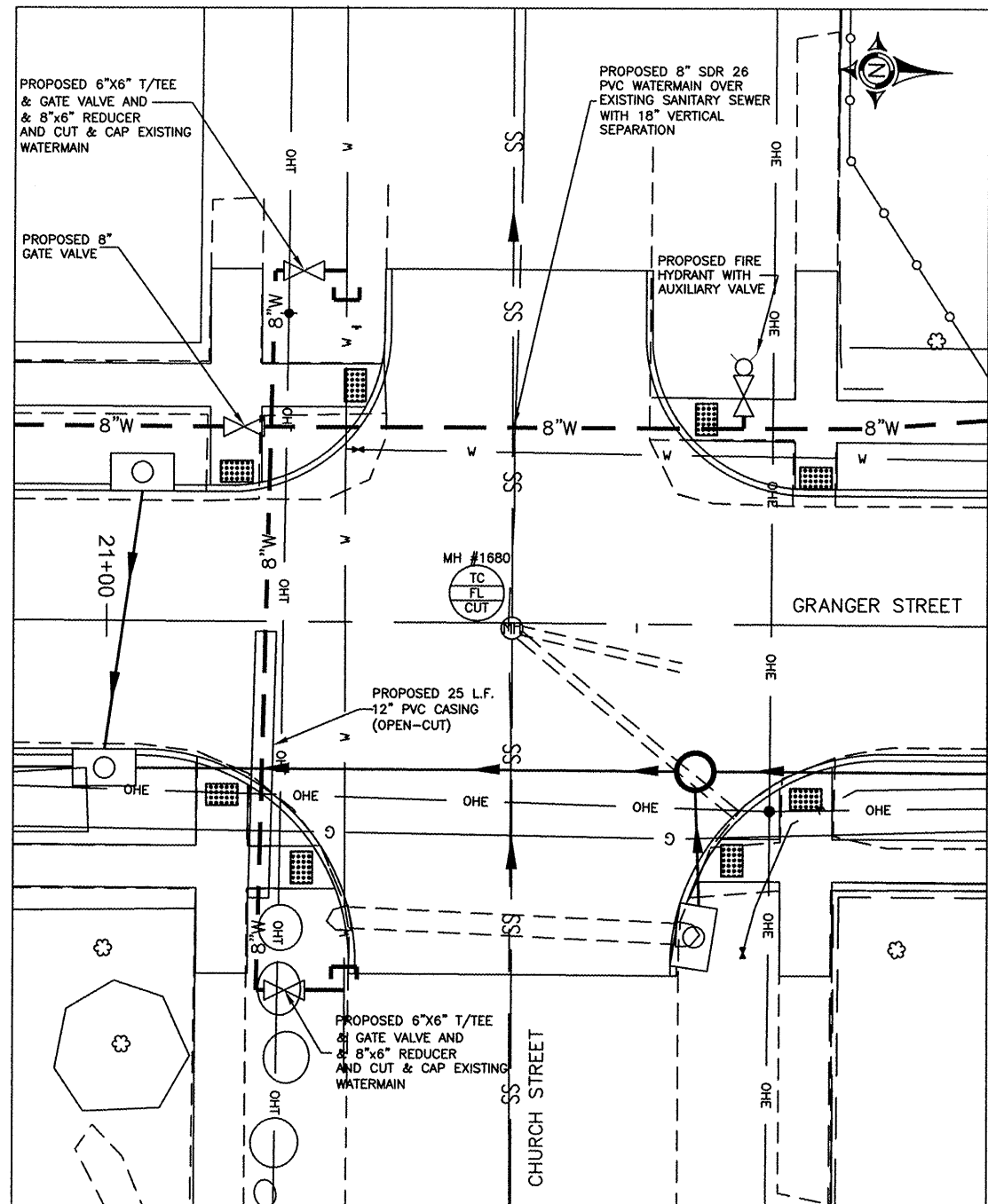
EXISTING FLUSHING HYDRANT

EXISTING WATERMAIN



ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9557	05-00081-00-RP	SALINE	45	43
CITY OF HARRISBURG		GRANGER STREET		

CONTRACT NO. 99439



### LEGEND

PROPOSED CUT AND CAP

PROPOSED GATE VALVE

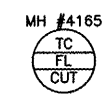
PROPOSED FLUSHING HYDRANT

PROPOSED 8" WATERMAIN

EXISTING GATE VALVE

EXISTING FLUSHING HYDRANT

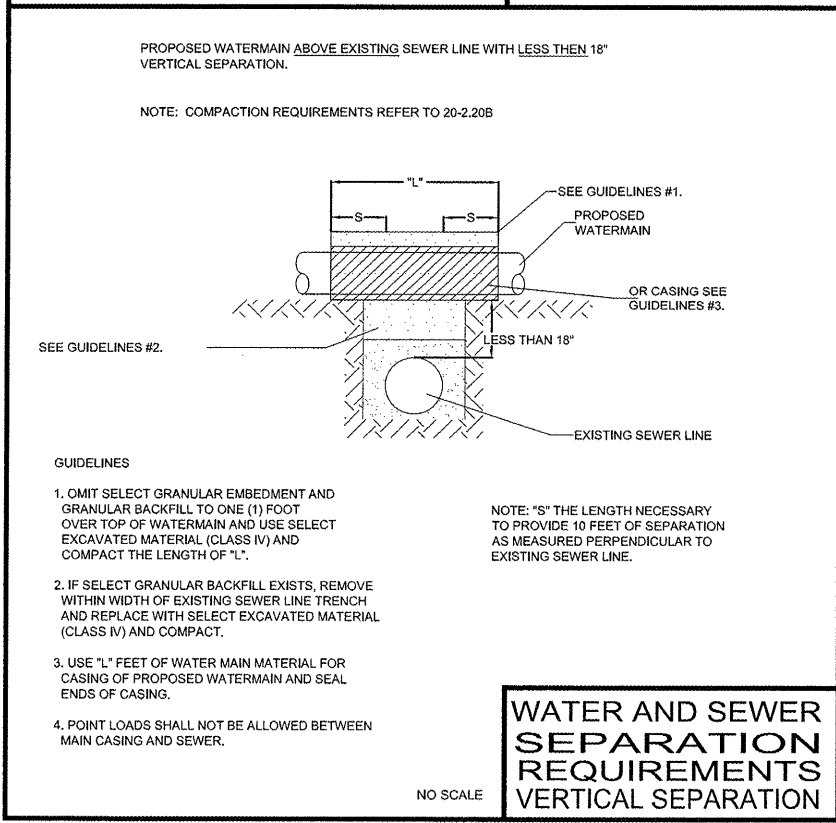
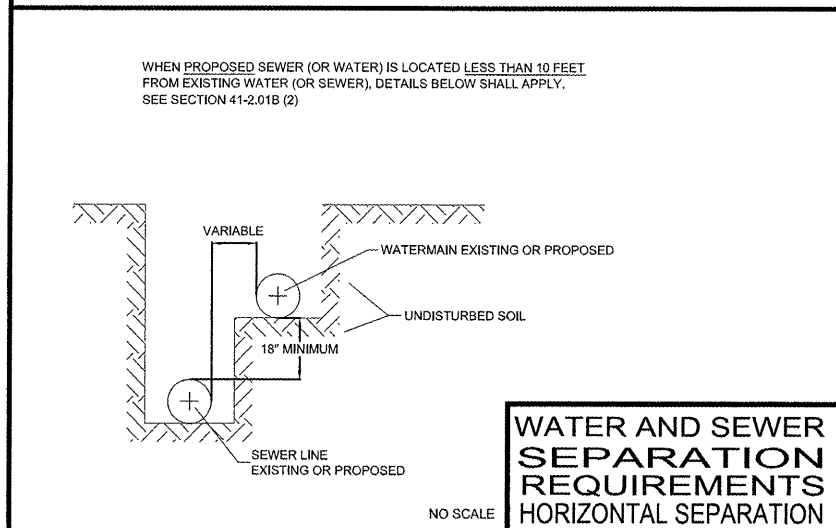
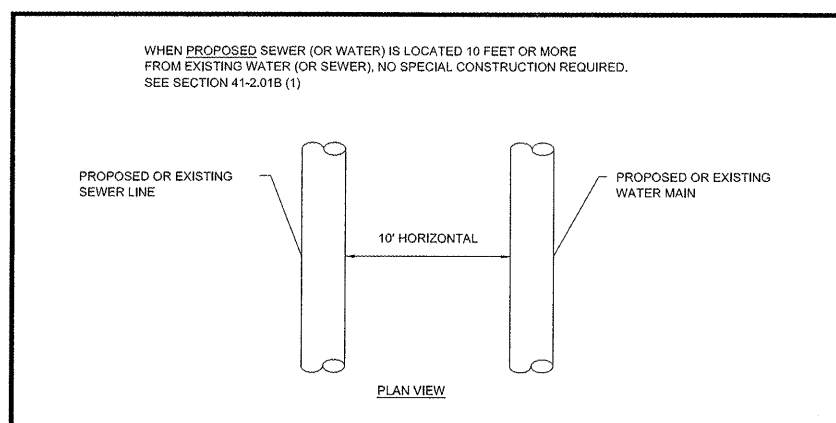
EXISTING WATERMAIN



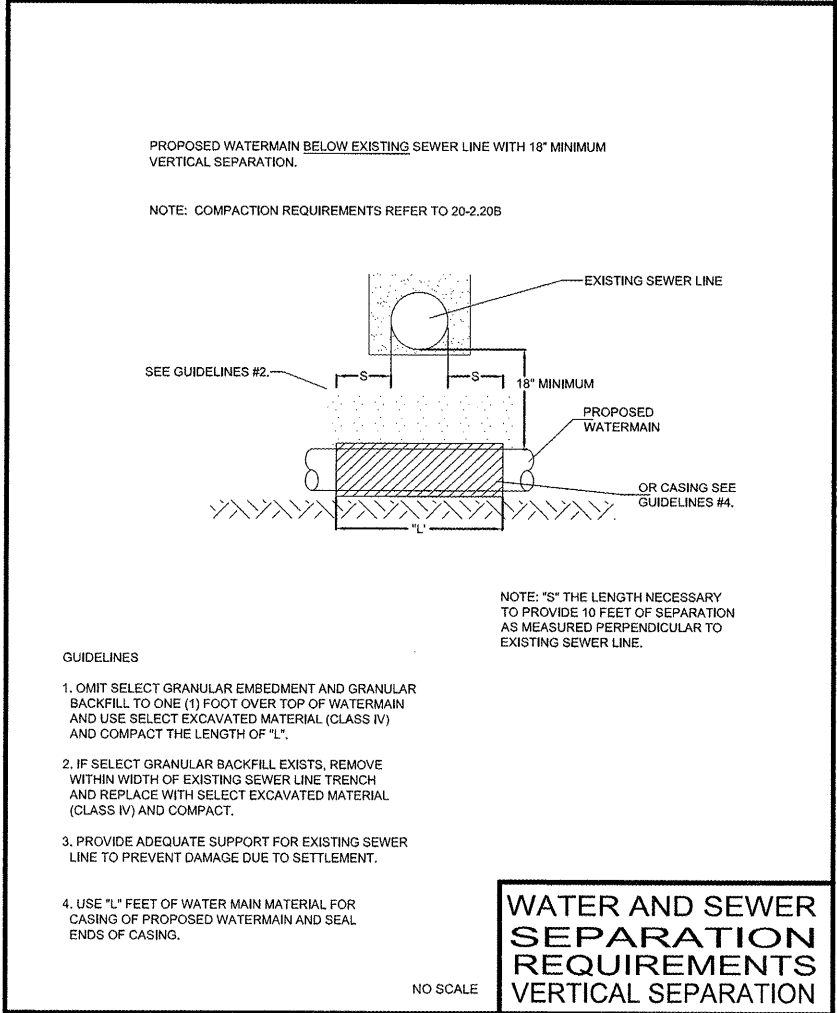
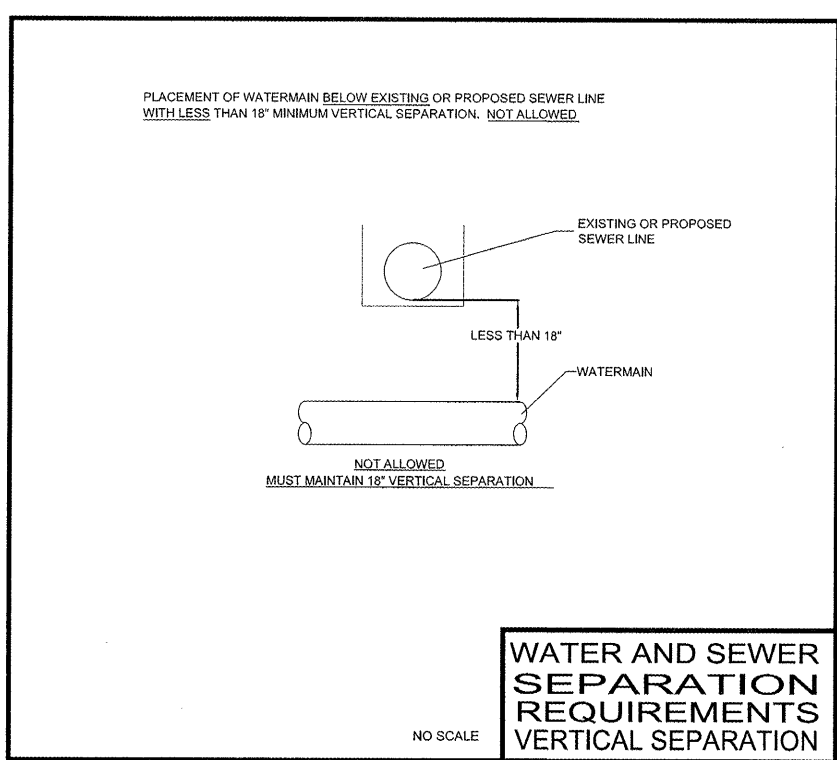
11 May 2011 - 3:41pm X:\2005\05045\ac\PLANS\05045.dwg: Layout Tab Intersection detail 3'

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9557	05-00081-00-RP	SALINE	45	44
CITY OF HARRISBURG		GRANGER STREET		

CONTRACT NO. 99439



- NOTES:
1. The construction of the water mains on this project shall be performed according to the "Standard Specifications for Water and Sewer Main Construction in Illinois", latest edition, and as required by 35 ILL. ADM. Code 653.119.
  2. Watermains shall be separated from septic tanks, disposal fields, and seepage beds by a minimum of 25 feet.
  3. The watermains shall comply with ASTM D2241.
  4. The watermain joints shall comply with ASTM FA77 and shall be pressure rated in accordance with ASTM D3139.
  5. In issuing the permit for this project, the Illinois Environmental Protection Agency acknowledges that the firm of Brown & Roberts, Inc. has not been employed to furnish any engineering observation for this project. Brown & Roberts, Inc., nor the engineer who seals these plans, therefore, make no representations as to the compliance of the installation of this project with IEPA existing rules, regulations, policies, or laws.

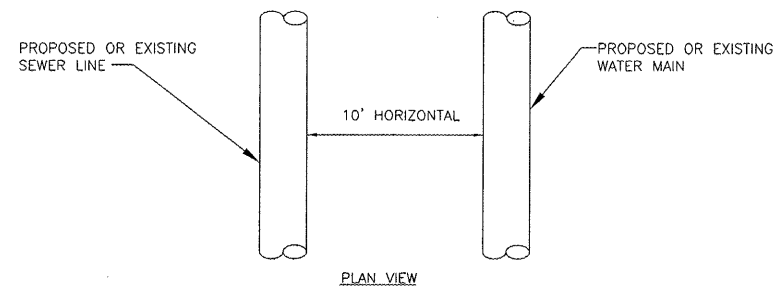


11 May 2011 - 3:19pm X:\2005\05045\cc\PLANS\44 separation details.dwg: Layout Tab 'Separation Details'

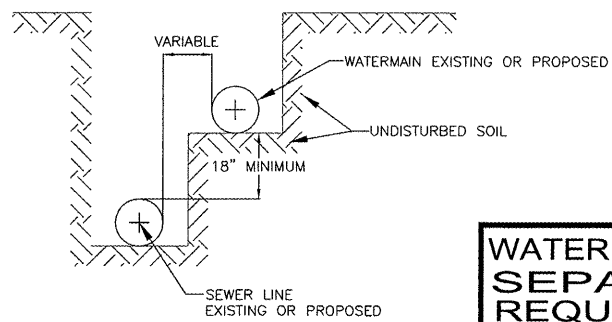
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9557	05-00081-00-RP	SALINE	45	45
CITY OF HARRISBURG		GRANGER STREET		

CONTRACT NO. 99439

WHEN PROPOSED SEWER (OR WATER) IS LOCATED 10 FEET OR MORE FROM EXISTING WATER (OR SEWER), NO SPECIAL CONSTRUCTION REQUIRED. SEE SECTION 41-2.01B (1)



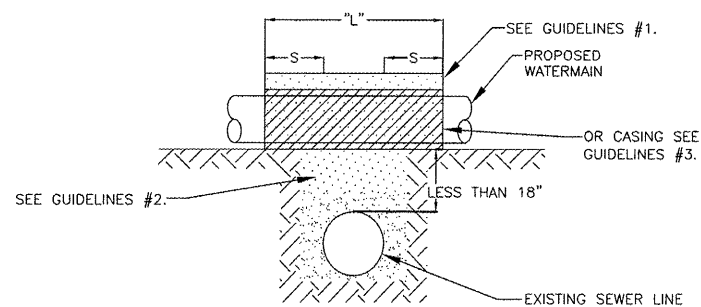
WHEN PROPOSED SEWER (OR WATER) IS LOCATED LESS THAN 10 FEET FROM EXISTING WATER (OR SEWER), DETAILS BELOW SHALL APPLY. SEE SECTION 41-2.01B (2)



**WATER AND SEWER SEPARATION REQUIREMENTS HORIZONTAL SEPARATION**

PROPOSED WATERMAIN ABOVE EXISTING SEWER LINE WITH LESS THAN 18" VERTICAL SEPARATION.

NOTE: COMPACTION REQUIREMENTS REFER TO 20-2.20B



**GUIDELINES**

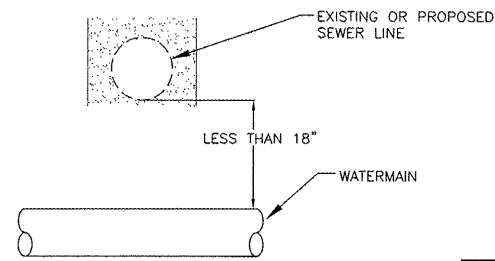
1. OMIT SELECT GRANULAR EMBEDMENT AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF WATERMAIN AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT THE LENGTH OF "L".
2. IF SELECT GRANULAR BACKFILL EXISTS, REMOVE WITHIN WIDTH OF EXISTING SEWER LINE TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT.
3. USE "L" FEET OF WATER MAIN MATERIAL FOR CASING OF PROPOSED WATERMAIN AND SEAL ENDS OF CASING.
4. POINT LOADS SHALL NOT BE ALLOWED BETWEEN MAIN CASING AND SEWER.

NOTE: "S" THE LENGTH NECESSARY TO PROVIDE 10 FEET OF SEPARATION AS MEASURED PERPENDICULAR TO EXISTING SEWER LINE.

**WATER AND SEWER SEPARATION REQUIREMENTS VERTICAL SEPARATION**

NOTE:  
THE CONSTRUCTION OF THE WATER MAINS ON THIS PROJECT SHALL BE PERFORMED ACCORDING TO THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", 5TH EDITION, MAY 1996, AS REQUIRED BY 35 IL. ADM CODE 652.102(a).

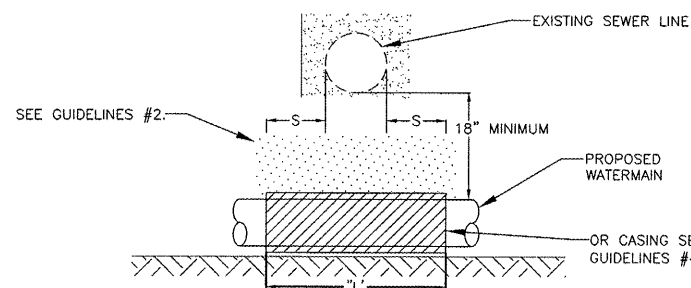
PLACEMENT OF WATERMAIN BELOW EXISTING OR PROPOSED SEWER LINE WITH LESS THAN 18" MINIMUM VERTICAL SEPARATION. NOT ALLOWED



**WATER AND SEWER SEPARATION REQUIREMENTS VERTICAL SEPARATION**

PROPOSED WATERMAIN BELOW EXISTING SEWER LINE WITH 18" MINIMUM VERTICAL SEPARATION.

NOTE: COMPACTION REQUIREMENTS REFER TO 20-2.20B



NOTE: "S" THE LENGTH NECESSARY TO PROVIDE 10 FEET OF SEPARATION AS MEASURED PERPENDICULAR TO EXISTING SEWER LINE.

**GUIDELINES**

1. OMIT SELECT GRANULAR EMBEDMENT AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF WATERMAIN AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT THE LENGTH OF "L".
2. IF SELECT GRANULAR BACKFILL EXISTS, REMOVE WITHIN WIDTH OF EXISTING SEWER LINE TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT.
3. PROVIDE ADEQUATE SUPPORT FOR EXISTING SEWER LINE TO PREVENT DAMAGE DUE TO SETTLEMENT.
4. USE "L" FEET OF WATER MAIN MATERIAL FOR CASING OF PROPOSED WATERMAIN AND SEAL ENDS OF CASING.

**WATER AND SEWER SEPARATION REQUIREMENTS VERTICAL SEPARATION**

