

# SUMMARY OF QUANTITIES

I.C.H. 15 SEC. H.  
GEAUGA COUNTY

NO	STATION	TYPE	SIZE	LENGTH	EXCAVATION CU. YDS.	CONCRETE			REINF. STEEL LBS.	VIT. SEWER PIPE				12" C.I.P. RELAY LIN. FT.	TYPE "G" RAIL LIN. FT.	DOWELS 3/4" x 20" NO.	V. S. P. 12" "T" NO.	SPECIAL INLETS		REMOVE			REMARKS	
						1-5 1/2	1-6 1/2	1-8		12"	15"	18"	24"					SIDE DITCH	CURVED TO	PARAPET	HDWALL	CURB		
<b>STRUCTURES 20' AND UNDER</b>																								
1	112+66	V.S.P. Side Rd.	12"	40'	20	2.6		4.1	60	40												Build std 12" V.S.P. side road culvert. Remove old pipe.		
2	112+66	V.S.P. Side Rd.	12"	40'	20	2.6		4.1	60	40												Build std. 12" V.S.P. side road culvert. Remove old pipe.		
3	117+05	Box	2 1/2 x 2 1/2	39'	11	7.4			246						14					2		Extend old 2 1/2 x 2 1/2 box 5 ft & 5 ft with std. 2 1/2 x 2 1/2 box culvert. Repair old top.		
4	123+45	Box	3 x 2	40.88'	11	6.0			226						16							Extend old 3 x 2 x 32.9' box 4 ft & 4 ft with std. 3 x 2' box culvert.		
5	128+11	V.S.P.	12"	34.5'	7	2.3		0.7	63	8					8					2		Extend old 12" x 26.5' C.I.P. 4 ft & 4 ft with std. V.S.P. 12"		
6	142+00	V.S.P.	18"	47'	6	2.7		0.9	80		8				8							Extend old 18" x 39' C.I.P. 4 ft & 4 ft with std. 18" V.S.P.		
7	148+33	Box	2 1/2 x 2 1/2	41.7'	13	7.3			232						16							Extend old 2 1/2 x 2 1/2 x 30.7' box 6 ft & 5 ft with std. 2 1/2 x 2 1/2 box culvert.		
8	153+05	V.S.P.	12"	38.8'	4	1.0		0.6	39	6					8							Extend old 12" x 32.8' C.I.P. 6 ft with std. 12" V.S.P.		
9	153+93	Box	3 x 1 1/2	37'	17	5.9			245						16					1		Extend old 3 x 1 1/2 x 28' box 4 ft & 5 ft with std. 3 x 1 1/2 box. Build special wing rt.		
10	168+64	V.S.P.	12"	34.7'	7	3.2		0.7	100	8					8					2		Extend old 12" x 26.7' C.I.P. 4 ft & 4 ft with std. V.S.P. 12". Build special hdwall ft.		
11	185+46	V.S.P.	24"	36.5'	12	3.5		1.2	105		8				8					2		Extend old 24" x 28.5' C.I.P. 4 ft & 4 ft with std. 24" V.S.P.		
12	194+00	V.S.P.	12"	44'	19	2.3		1.6	63	16			28		8						2	Relay old 12" x 28' C.I.P. Extend 16 ft with std. 12" V.S.P. side road culvert.		
13	199+45	Box	2 x 2	56.8'	12	3.0			104						8							Extend old 2 x 2 x 51.8' box 5 ft with std. 2 x 2' box culvert.		
14	206+95	Box	2 1/2 x 2 1/2	44.8'	15	6.5			179						16							Extend old 2 1/2 x 2 1/2 x 36.8' box 4 ft & 4 ft with std. 2 1/2 x 2 1/2 box culvert.		
16	236+75	Box	3 x 3	40.6'	19	7.7			212						16					1		Extend old 3 x 3 x 32.6' box 3 ft & 5 ft with std. 3 x 3' box.		
17	251+40	V.S.P.	15"	51.5'	6	1.2		0.9	35		8				8					2		Extend old 18" x 29' C.I.P. 2 ft & 4 ft with std. 18" V.S.P.		
18	256+50	V.S.P.	18"	35'	10	2.7		0.6	80		6				24							Extend old 4' x 4' x 51' box 11 ft & 6 ft with std. 4' x 4' box culvert.		
19	262+50	Box	4 x 4	68'	32	15.0			533													Extend old 4' x 4' x 51' box 11 ft & 6 ft with std. 4' x 4' box culvert.		
20	264+42	V.S.P. Side Rd.	12"	66'	40			7.1		66											2 (complete)	Remove old 12" V.S.P. Build special 12" V.S.P. side road culvert. (see plan)		
21	279+93	V.S.P.	12"	34.9'	7	2.0		0.2	65	4					8					2		Extend old 12" x 30.9' C.I.P. 2 ft & 2 ft with std. 12" V.S.P.		
22	288+45	V.S.P. Hillside	12"	35'	15	2.7		0.9	40	10					4					2		Extend old 12" x 25' C.I.P. 6 ft & 4 ft with std. 12" V.S.P. Hillside culvert.		
23	303+94	V.S.P. Hillside	18"	36'	14	3.0		0.6	45		6				8					2		Extend old 18" x 30' C.I.P. 2 ft & 4 ft with std. 18" V.S.P. Hillside culvert.		
24	308+90	Slab Bridge	30'	16' span	37	8.0	12.9	8.0	832					36	42						58	Extend old 16' span slab bridge 3.8 ft & 4 ft with std. 16' span H-4-6' slab bridge.		
25	315+83	Box	2 x 2	36'	14	6.0			209						16					2		Extend old 2 x 2 x 26' box 5 ft & 5 ft with std. 2 x 2' box culvert.		
26	328+80	V.S.P.	24"	36'	9	3.5		1.2	105		8				8					2		Extend old 24" x 28' C.I.P. 4 ft & 4 ft with std. 24" V.S.P. Rebuild wing rt as shown.		
27	346+05	V.S.P. Hillside	12"	34.5'	11	2.7		0.4	40	6					8					1		Extend old 12" x 28.5' C.I.P. 2 ft & 4 ft with std. 12" Hillside culvert.		
28	360+75	Box	3 x 1 1/2	34'	8	4.7			194						16					2		Extend old 3 x 1 1/2 x 27' box 3 ft & 4 ft with std. 3 x 1 1/2 box culvert.		
29	374+77	V.S.P.	12"	34.2'	6	2.0		0.5	65	8					8					2		Extend old 12" x 27.2' C.I.P. 3 ft & 4 ft with std. 12" V.S.P.		
30	398+87	Slab Bridge	30'	10' span	24	4.4	8.2	6.3	475					24	28						24	Extend old 10' x 21.8' slab bridge 4 ft & 4.2 ft with std. 10' span H-3' slab bridge.		
<b>TOTALS</b>					426	121.9	21.1	40.6	4726	212	8	20	16	28	60	312			2		13	14	3	82

## STRUCTURES OVER 20'

NO	STATION	TYPE	SIZE	ROADWAY	EXCAVATION			CONCRETE			REINF. STEEL LBS.	PREM. EXP. JOINT		4' CONC. SURFACE Sq. Yds.	APPROACH SLABS Sq. Yds.	REMARKS
					DRY Cu. Yds.	WET Cu. Yds.	CHANNEL Cu. Yds.	1-5 1/2 Cu. Yds.	1-6 1/2 Cu. Yds.	1-8 Cu. Yds.		1/2" Sq. Ft.	1/4" Sq. Ft.			
15	215+08.5	Twin Slab	(2) 20' Spans	30'				73.5	130	690	13840	10500	52	147.2	84.8	Remove present Conc. 40' x 16' Girder Bridge. Build new Twin Slab Superstructure
15	215+08.5	"	Abuts.													Build new Abuts. and center pier. See sheets 34-35-36
15	215+08.5	"	Footers.													NOTE: Revisions made in 1/2" exp. mat. + Reinforcing Steel - 3-20-28 by EWB/ake
<b>Totals</b>					120	170	325	73.5	130	690	13840	10500	52	147.2	84.8	

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