CONTRACT NO. C-22
COUNTY - LORAIN STA. 865+00 TO 1100+02.01
CUYAHOGA STA. 0+00 TO 5+00
DATE: APRIL 24, 1953

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE PROJECT NO. 1

DESIGN SECTION D-7

CONTRACT NO. C-22

TURNPIKE CONSTRUCTION CONTRACT

STATION 865+00 TO STATION 5+00

U.S. GEOLOGICAL SURVEY QUADS.

LOCATION PLAN

TOTAL LENGTH OF CONTRACT = 23,602.01 L.F. = 4.470 M.

EQUATIONS { 1076+00 BACK = 1080+00 AHEAD
1100+02.01 BACK = 0+00 AHEAD

1 0 1 2

SCALE IN MILES

APPROVAL RECOMMENDED
KNAPPEN · TIPPETTS · ABBETT · McCARTHY
CONTRACTING ENGINEER
James H. Stratton
11-6-53

APPROVED
J. E. GREINER CO.
CONSULTING ENGINEER
J. J. Jenkins Jr.
11-9-53

APPROVED
OHIO TURNPIKE COMMISSION
CHIEF ENGINEER
11-10-53

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SINGLE BARREL 10' x 5' R.C. BOX CULVERT STATE ROUTE 10 STA. 23 + 89.7	

SUPERELEVATION ROTATED ABOUT CENTER LINE OF PAVEMENT

SKETCH SHOWING TRAFFIC DETOURS AND TEMPORARY RUNAROUNDS

NOTE ① TRAFFIC ON RACE RD. TO BE REROUTED VIA A TEMPORARY RUNAROUND LOCATED EAST OF THE EXISTING RACE RD. DURING THE CONSTRUCTION OF RACE RD. BRIDGE.

NOTE ② TRAFFIC ON MADDOCK RD. TO BE REROUTED VIA A TEMPORARY RUNAROUND LOCATED EAST OF EXISTING MADDOCK RD. DURING THE CONSTRUCTION OF MADDOCK RD. BRIDGE.

NOTE ③ TRAFFIC ON WOOSTER AVON LAKE RD. TO BE REROUTED VIA A TEMPORARY RUNAROUND LOCATED EAST OF EXISTING WOOSTER AVON LAKE RD. DURING THE CONSTRUCTION OF THE WOOSTER AVON LAKE RD. BRIDGE.

NOTE ④ TRAFFIC ON ROOT RD. TO BE REROUTED VIA A TEMPORARY RUNAROUND LOCATED EAST OF EXISTING ROOT RD. DURING THE CONSTRUCTION OF THE ROOT RD. BRIDGE.

NOTE ⑤ TRAFFIC TO BE MAINTAINED ON CHESTNUT RIDGE RD. DURING THE CONSTRUCTION OF THE TURNPIKE BRIDGE SPANNING THE EXISTING CHESTNUT RIDGE RD.

NOTE ⑥ RECONSTRUCTION OF LORAIN RD. (STATE ROUTE 10) AND CONSTRUCTION OF TURNPIKE BRIDGE OVER LORAIN RD. AND BRIDGE SPANNING TURNPIKE RAMP OVER LORAIN ROAD TO TAKE PLACE UNDER TRAFFIC.

NOTE ⑦ CONSTRUCTION OF TURNPIKE BRIDGE OVER MAIN LINE OF NEW YORK CENTRAL SYSTEM TO TAKE PLACE WITHOUT INTERRUPTION TO RAILROAD TRAFFIC ON THIS LINE.

NOTE ⑧ TRAFFIC ON BEREA RD. TO BE REROUTED VIA A TEMPORARY RUNAROUND LOCATED NORTHWEST OF EXISTING BEREA RD. DURING CONSTRUCTION OF THE BEREA RD. BRIDGE.

REFERENCE TO SPECIFICATIONS:

THIS PROJECT SHALL BE CONSTRUCTED UNDER OHIO TURNPIKE PROJECT NO. 1, GENERAL SPECIFICATIONS, DATED DECEMBER 9, 1952

SPECIAL PROVISIONS FOR CONTRACT C-22

SUPPLEMENTAL	SPECIFICATION	A-5	DATED AUGUST	7, 1953
SUPPLEMENTAL	SPECIFICATION	B-20	DATED DECEMBER	9, 1952
SUPPLEMENTAL	SPECIFICATION	B-35	DATED DECEMBER	9, 1952
SUPPLEMENTAL	SPECIFICATION	T-10	DATED DECEMBER	9, 1952
SUPPLEMENTAL	SPECIFICATION	T-30	DATED DECEMBER	9, 1952
SUPPLEMENTAL	SPECIFICATION	T-35	DATED DECEMBER	9, 1952
SUPPLEMENTAL	SPECIFICATION	I-9	DATED DECEMBER	9, 1952
SUPPLEMENTAL	SPECIFICATION	I-16	DATED FEBRUARY	3, 1953
SUPPLEMENTAL	SPECIFICATION	I-30	REVISED JULY	9, 1953
SUPPLEMENTAL	SPECIFICATION	I-18	DATED MAY	28, 1953
SUPPLEMENTAL	SPECIFICATION	I-17	DATED MAY	28, 1953
SUPPLEMENTAL	SPECIFICATION	I-29	DATED MAY	28, 1953

NOTES:

ELEVATIONS REFER TO MEAN SEA LEVEL, U. S. COAST AND GEODETIC SURVEY. THE NORTH INDICATED AND REFERRED TO IS THE GRID NORTH OF THE NORTH ZONE OF THE OHIO STATE LAMBERT PROJECTION SYSTEM

PIPE LEGEND:

THE FOLLOWING SYMBOLS HAVE BEEN USED TO DESIGNATE THE VARIOUS PIPE TYPES USED.

SSRCCP	STANDARD STRENGTH REINFORCED CONCRETE CULVERT PIPE.
BCCMP	BITUMINOUS COATED CORRUGATED METAL PIPE.
PIBCCMP	PAVED INVERT BITUMINOUS COATED CORRUGATED METAL PIPE.
SSPCCP	STANDARD STRENGTH PLAIN CEMENT CONCRETE PIPE.
SRCSP	STANDARD REINFORCED CONCRETE SEWER PIPE.
EODT	EXTRA QUALITY DRAIN TILE.
SSVCP	STANDARD STRENGTH VITRIFIED CLAY PIPE.
ESVCP	EXTRA STRENGTH VITRIFIED CLAY PIPE.
WIP	WELDED WROUGHT IRON PIPE.

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UNDERDRAINS	16	1-20-53
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GUARD RAILS, TYPE C & TYPE D	18	5- 6-53
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TRANSVERSE PAVEMENT JOINTS, TYPE C	21	1-23-53
CULVERT PIPE BEDDING AND BACKFILL	22	2-19-53

LEGEND

NEW MANHOLE	EXISTING STORM OR SANITARY SEWER
NEW INLET	EXISTING WATER LINE
HYDRANT	BUILDINGS NOT TO BE DISTURBED
EXISTING MANHOLE	BUILDINGS WITHIN R.O.W. TO BE TORN DOWN OR MOVED
EXISTING CATCH BASIN OR INLET	EXISTING ROAD
MONUMENT	PROPOSED DRAINAGE DITCH
TEL. POLE	O.B.T. OHIO BELL TELEPHONE
POWER POLE	O.E. OHIO EDISON
COMB. TEL. & POWER POLE (JOINT)	C.E.I. CLEVELAND ELECTRIC ILLUMINATING CO.
WATER OR GAS VALVE	EXISTING GAS LINE
WATER OR GAS METER	GUARD RAIL

NO.	REVISION	BY	DATE
1	AS BUILT		7/15/56

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE PROJECT NO. 1

INDEX SHEET

KNAPPEN - TIPPETTS - ABBETT - McCARTHY
CONTRACTING ENGINEER
DESIGN SECTION D-7

DESIGNED: J. H. CHECKED: J. R. DATE: 4-27-53
DRAWN: J. H. IN CHARGE: E. F. G. SCALE:

CONTRACT NO. C-22 SHEET 1 OF 78

REFERENCE NUMBER	SPECIFICATION ITEM NUMBER	DESCRIPTION	UNIT	SHEET NUMBERS 4	5	6	7	8	9	10	11	12	13	14	15	16	17	19	20	21	22	23	24	28	29	30	31	32	78	TOTALS	PROPOSAL QUANTITIES
		ROADWAY																													
1	E-1	Roadway Excavation	C.Y.																												
2	E-4	Borrow	C.Y.																												
3	E-8	Removal and Disposal of Existing Pavement	S.Y.																												
4	E-11	Water	M Gal.																												
5	E-12	Pipe Removed - Under 16"	L.F.																												
6	E-12	Pipe Removed - 16" and Over	L.F.																												
7	I-12	Concrete Curb Type I	L.F.																												
8	I-12	Concrete Curb, Type II	L.F.																												
9	I-12	Combination Curb and Gutter, Type III	L.F.																												
10	I-12	Combination Curb and Gutter,																													
		Type III Modified "A"	L.F.																												
11	I-12	Combination Curb and Gutter,																													
		Type III Modified "B"	L.F.																												
12	I-13	Walks - 6" I-17 Side Approaches																													
		and Mail Box Turnouts	S.F.																												
13	I-15	Guard Rail, Type "A"	L.F.																												
14	I-15	Guard Rail, Type "B"	L.F.																												
15	I-15	Guard Rail, Type C-1 or C-2	L.F.																												
16	I-15	Guard Rail, Type D-3	L.F.																												
17	I-23	Right of Way Fence, Type II	L.F.																												
18	I-24	Delineators	Each																												
19	I-26	Permanent Monuments and																													
		Station Markers	Each																												
20	I-27	Classified Embankment Material	Cu.Yd.																												
21	I-28	Temporary Cattle Fence	L.F.																												
22	L-3	Placing Stockpiled Topsoil	S.Y.																												
23	L-3	Bonemeal and Rawbone	Ton																												
24	L-3	Organic Fertilizer	S.Y.																												
25	L-6	Roadside Cleanup	L.S.																												
26	L-9	Commercial Fertilizer, 8-16-8	Ton																												
27	L-9	Agricultural Hydrated Lime	Ton																												
28	L-9	Agricultural Ground Limestone	Ton																												
29	L-9	Bonemeal or Rawbone	Ton																												
30	L-9	Seeding and Protecting, Type A	S.Y.																												
31	L-19	Seeding and Mulching																													
		(special Seeding)	S.Y.																												
		DRAINAGE																													
34	E-2	Excavation for Structures	C.Y.																												
35	E-3	Channel Excavation	C.Y.																												
36	S-1	Concrete for Structures (Class C)	C.Y.																												
37	S-4	Reinforcing Steel	Lb.																												
38	S-27	Pipe for Roadway Culverts - 18" S.S.R.C.C.P.	L.F.																												
39	S-27	Pipe for Roadway Culverts - 24" S.S.R.C.C.P.	L.F.																												
40	S-27	Pipe for Roadway Culverts - 30" S.S.R.C.C.P.	L.F.																												
41	S-27	Pipe for Roadway Culverts - 36" S.S.R.C.C.P.	L.F.																												
42	S-27	Pipe for Roadway Culverts - 54" S.S.R.C.C.P.	L.F.																												
43	S-27	Pipe for Roadway Culverts - 60" S.S.R.C.C.P.	L.F.																												
44	S-27	Pipe for Roadway Culverts - 24" E.S.R.C.C.P.	L.F.																												
45	S-27	Pipe for Roadway Culverts - 42" E.S.R.C.C.P.	L.F.																												
46	I-1	Pipe for Driveways 15" S.S.R.C.C.P.	L.F.																												
47	I-1	Pipe for Driveways 18" S.S.R.C.C.P.	L.F.																												
48	I-2	Storm Sewers - 15" S.S.R.C.C.P.	L.F.																												
49	I-2	Storm Sewers - 18" S.S.R.C.C.P.	L.F.																												
50	I-2	Storm Sewers - 15" S.R.C.S.P. or S.S.V.C.P.	L.F.																												
33	I-2	Storm Sewers - 30" S.S.R.C.C.P.	L.F.																												
51	I-2	Storm Sewers - 24" S.S.R.C.C.P. or S.S.V.C.P.	L.F.																												
52	I-2	Storm Sewers - 36" S.R.C.S.P. or S.S.V.C.P.	L.F.																												
53	I-2	Storm Sewers - 78" S.R.C.S.P.	L.F.																												
54	I-2	Storm Sewers - 6" S.S.R.C.C.P. or S.S.V.C.P.	L.F.																												
55	I-2	Storm Sewers - 15" S.S.R.C.C.P. or S.S.V.C.P.	L.F.																												
56	I-2	Storm Sewers - 15" P.I.B.C.C.M.P. - 14 Ga.	L.F.																												
57	I-4	6" Pipe Underdrain, Type A	L.F.																												
58	I-5	Pipe Special - 6" S.S.R.C.C.P. - 1/16 Bend	Ea.																												
59	I-5	Pipe Special - 15" S.S.R.C.C.P. - 1/16 Bend	Ea.																												
60	I-5	Pipe Special - 15" B.C.C.M.P. - 1/16 Bend - 14 Ga.	Ea.																												
	I-1	Pipe for Driveways 18" C.M.P.	L.F.																												

REFERENCE NUMBER	SPECIFICATION ITEM NUMBER	DESCRIPTION	UNIT	SHEET NUMBERS 33	36	39	42	45	50	55	60	64	68	73	TOTALS	PROPOSAL QUANTITIES
		STRUCTURES														
91	E-2	Excavation for Structures (Dry)	C.Y.													
92	T-35	Asphaltic Concrete Surface														
		Course, Type C	C.Y.													
93	S-1	Concrete for Structures (Class C)	C.Y.													
94	S-3	Waterproofing - Type C	S.Y.													
95	S-4	Reinforcing Steel	Lb.													
96	S-7	Structural Steel	Lb.													
97	S-9	Structural Expansion and / or														
		Contraction Joints	Lb.													
98	S-14	Metal Hand Rail, Type A	L.F.													
99	S-14	Metal Hand Rail, Type B	L.F.													
100	S-16	First Test Pile	Ea.													
101	S-17	Pile Test Load	Ea.													
102	S-18	Furnishing Bearing Piles, Steel - 10BP42	L.F.													
103	S-18	Driving Bearing Piles - Steel - 10 BP42	L.F.													
104	S-18	Splices for Steel Bearing Piles - 10BP42	Ea.													
105	S-18	Furnishing Bearing Piles, Steel - 10BP53	L.F.													
106	S-18	Driving Bearing Piles - Steel - 12BP53	L.F.													
107	S-18	Splices for Steel Bearing Piles - 12BP53	Ea.													
108	S-19	Soil Load Bearing Test	Ea.													
109	S-29	Drainage of Structures - 6" Pipe	L.F.													
110	S-29	Drainage of Structures - 6" W.I. Pipe	L.F.													
111	S-29	Drainage of Structures - 8" Pipe	L.F.													
112	S-29	Drainage of Structures - Scuppers, Type A	Ea.													
113	S-29	Drainage of Structures - Scuppers, Type B	Ea.													
114	I-14	Paved Ditches - 6" Grouted Stone	S.Y.													
115	I-15	Guard Rail Type A	L.F.													
116	I-24	Delineators	Ea.													
		MISCELLANEOUS														
120	I-29	Construction Contract Information Signs	Ea.													
		Maintenance of Traffic	L.S.													
		Engineers Office Bldg's & Facilities	L.S.													

NOTE

SEE FINAL ESTIMATE AND RECAPITULATION OF QUANTITIES FOR CONTRACT SECTION C-22 FOR FINAL TOTAL QUANTITIES.

NO.	REVISION	BY	DATE
1	AS BUILT		10/8/56

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE PROJECT NO. 1

SUMMARY SHEET

KNAPPEN - TIPPETTS - ABBETT - McCARTHY
CONTRACTING ENGINEER
DESIGN SECTION D-7

DESIGNED: | CHECKED: J. R. | DATE: 4-27-53
DRAWN: J. T. | IN CHARGE: E.F.G. | SCALE:

CONTRACT NO. C-22 SHEET 2 OF 78

REFERENCE NUMBER	SPECIFICATION ITEM NUMBER	DESCRIPTION	UNIT	SHEET NUMBERS 4	5	6	7	8	9	10	11	12	13	14	15	16	17	19	20	21	22	23	24	28	29	30	31	32	78	TOTALS	PROPOSAL QUANTITIES
		DRAINAGE (cont'd)																													
61	I-8	Manholes, Type I	Ea.																												
62	I-8	Manholes, Type II	Ea.																												
63	I-8	Inlets, Type A	Ea.																												
64	I-8	Inlets, Type A-1	Ea.																												
65	I-8	Inlets, Type B	Ea.																												
66	I-9	Stone Underdrains No. 1	L.F.																												
67	I-10	Riprap, Type A	S.Y.																												
68	I-14	Paved Ditches-6" Grouted Stone	S.Y.																												
69	I-16	Catch Basins Abandoned	Ea.																												
70	I-30	Farm Tile Drains-6" EQDT	L.F.																												
71	I-30	Farm Tile Drains-8" EQDT	L.F.																												
72	I-30	Farm Tile Drains-10" EQDT	L.F.																												
73	I-30	Farm Tile Drains-12" EQDT	L.F.																												
74	I-30	6" Pipe Outlets for Tile Drains	L.F.																												
75	I-30	8" Pipe Outlets for Tile Drains	L.F.																												
76	I-30	10" Pipe Outlets for Tile Drains	L.F.																												
77	I-30	12" Pipe Outlets for Tile Drains	L.F.																												
		PAVEMENT																													
78	B-20	Waterbound Macadam Base Course-8"																													
		Laid in 2-4" Courses	S.Y.																												
79	B-20	Waterbound Macadam Base Course-5"	S.Y.																												
80	B-35	Asphaltic Concrete Base and/or Leveling																													
		Course	C.Y.																												
81	B-35	Sealing Vertical Face of Existing Pavement	L.F.																												
82																															
83	T-30	Bituminous Prime Coat-MC-0	Gal.																												
84	T-30	Bituminous Prime Coat-M5,7 Rt-2 or M5,7 Rt-3	Gal.																												
85	T-33	Bituminous Macadam Surface Course-3"	S.Y.																												
86	T-35	Asphaltic Concrete Surface Course Type A	C.Y.																												
87	T-71	Reinforced Portland Cement Concrete																													
		Pavement-10"	S.Y.																												
89	I-22	Selected Sub-base	C.Y.																												
90	I-17	Side Approaches and Mail Box Turnouts	C.Y.																												
	T-10	Traffic Compacted Surface Course 6"	C.Y.																												
	T-71	Reinforced Portland Cement Concrete																													
		Pavement-8"	S.Y.																												

NOTE

SEE FINAL ESTIMATE AND RECAPITULATION OF QUANTITIES FOR CONTRACT SECTION C-22 FOR FINAL TOTAL QUANTITIES.

NO.	REVISION	BY	DATE
1	AS BUILT		10/8/56

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE PROJECT NO. 1

SUMMARY SHEET

KNAPPEN - TIPPETTS - ABBETT - McCARTHY
CONTRACTING ENGINEER
DESIGN SECTION D-7

DESIGNED:	CHECKED: T.K.	DATE: 4-27-53
DRAWN: J.R.	IN CHARGE E.F.G.	SCALE:

CONTRACT NO. C-22 SHEET 3 OF 78

For details of Chestnut Ridge Rd. Bridge, Structure #5, see Sheets 45 to 49, incl.
For details of Route 10 Ramp over Chestnut Ridge Rd., Structure #6, see Sheets 60 to 63, incl.
For details of Turnpike Bridge over Route 10 Ramp, Structure #7, see Sheets 50 to 54, incl.
For details of Turnpike Bridge over Route 10, Structure #8, see Sheets 55 to 59, incl.

Notes:

For R.O.W. Fencing and Additional Drainage between Chestnut Ridge Road and Lorain Road see Sheets 20, 21, 22, 23 and 24.

Delineators shall be installed 100 ft. apart and 1 ft. from edge of paved shoulder. One series shall be adjacent to the outside 10 ft. shoulder of the north pavement from Sta. 1023+00 to Sta. 1028+00, from Sta. 1032+00 to Sta. 1042+00 and from Sta. 1043+00 to Sta. 1050+00. Another series shall be adjacent to the inside 8 ft. shoulder of the south pavement from Sta. 1023+00 to Sta. 1050+00.

Install Type A Guard Rail in accordance with Standard Drawing No. 17.

Install Type A Guard Rail on Left side of Turnpike between Sta. 1034+06 and Sta. 1036+33, and between Sta. 1041+57 and Sta. 1042+20 and on Right side of Turnpike between Sta. 1024+05 and Sta. 1024+60.

Install Type B Guard Rail on Right side of Turnpike between Sta. 1029+80 and Sta. 1034+92, and between Sta. 1047+50 and Sta. 1050+00.

For additional Guard Rail installations, see Interchange Detail Sheets 20, 21, 22, 23 and 24.

PLAN

1 IN. = 100 FT.

PROFILE

SCALE: HOR. 1 IN. = 100 FT. VERT. 1 IN. = 10 FT.

QUANTITIES

NO.	ITEM	LOCATION & REMARKS	UNIT	ESTIMATED QUANTITY	FINAL QUANTITY
	ROADWAY				
E-1	Roadway Excavation		Cu.Yd.	808	1,879
E-11	Water		M.Gal.	4.178	410
I-15	Guard Rail, Type A		Lin.Ft.	3.186	2922
I-15	Guard Rail, Type B		Lin.Ft.	245	762
I-24	Delineators		Ea.	39	43
I-26	Permanent Monuments & Station Markers		Ea.	1	1
L-3	Placing Stockpiled Topsoil		Sq.Yd.	11,197	11,951
	Commercial Fertilizer, 10-20-10	EW(RV)6	Ton	0	0.9
L-9	Agricultural Hydrated Lime		Ton	2	4.6
L-9	Seeding Type A	EW(RV)6	Sq.Yd.	0	11,095
L-9	Special Seeding	EW(RV)6	Sq.Yd.	0	14,665
	DRAINAGE				
E-2	Excavation for Structures		Cu.Yd.	297	449
E-3	Channel Excav.		Cu.Yd.	108	
S-1	Concrete for Structures Class C		Cu.Yd.	8.0	12.9
S-4	Reinforcing Steel		Lb.	370	550.4
S-27	Pipe for Roadway Culverts 42"-ES RCCP		Lin.Ft.	288	292
I-2	Storm Sewers 15" SSRCCP		Lin.Ft.	518	501
I-5	Pipe Specials 11¼ Bends 15" S.S.R.C.C.P.		Ea.	6	6
I-8	Inlets, Type B-Ave. Height = 6'		Ea.	3	3
I-8	Inlets, Type A-1 Ave. Height = 4'		Ea.	3	3
I-10	Riprap, Type A		Sq.Yd.	6	17.6
	PAVEMENT				
T-33	Bituminous Macadam Surface Course-3"		Sq.Yd.	7,040	8449
T-71	Reinforced Portland Cement Concrete Pavement-10"		Sq.Yd.	12,070	12,106
T-22	Selected Sub-Base		Cu.Yd.	3,580	6932.3
	Plug Gas Well	EW(FA)1	Ea.	0	

NOTE: Quantities shown are for Turnpike proper only

NO.	REVISION	BY	DATE
	MICROWAVE CABLE	JHF	5-21-85
2	U.S. RTE 20 BRIDGE	D.F.C.	8-17-82
△	AS BUILT		

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE PROJECT NO. 1

PLAN AND PROFILE

LORAIN COUNTY

STA. 1023+00 TO STA. 1050+00

KNAPPEN - TIPPETTS - ABBETT - McCARTHY
CONTRACTING ENGINEER
DESIGN SECTION D-7

DESIGNED: R.A.O.	CHECKED: J.L.R.	DATE: 4-27-51	
DRAWN: K.K.	IN CHARGE: E.F.G.	SCALE: AS NOTED	

CONTRACT NO. C- 22 SHEET 10 OF 78

NO.	REVISION	BY	DATE
1	AS BUILT		10/6/59

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE PROJECT NO. 1

INTERCHANGE
KEY PLAN
STATE ROUTE 10
LORAIN COUNTY

KNAPPEN - TIPPETTS - ABBETT - McCARTHY
CONTRACTING ENGINEER
DESIGN SECTION D-7

DESIGNED: A.M.	CHECKED: E.F.G.	DATE: 4-27-53
DRAWN: J.E.L.	IN CHARGE: W.M.H.	SCALE: 1IN=150 FT.

CONTRACT NO. C-22 SHEET 18 OF 78

QUANTITIES

NO.	ITEM	LOCATION & REMARKS	UNIT	ESTIMATED QUANTITY	FINAL QUANTITY
	ROADWAY				
E-1	Roadway Excavation		Cu.Yd.	15,[illegible]	16647
E-1	Rdwy. Excav.	Unsuitable Mat'l (RT. 10)	Cu.Yd.		2183
E-11	Water		M.Gal.	3,018	411
I-23	Right of Way Fence, Type 2		Ln.Ft.	6,820	6907
L-9	Commercial Fertilizer 10-20-10	EW(RV)6	Ton	0	1.5
L-9	Agricultural Hydrated Lime		Ton	2.5	7.7
L-9	Seeding Type A	EW(RV)6	S.Y.	0	19,717
L-19	Special Seeding	EW(RV)6	S.Y.	0	13,651

NO.	REVISION	BY	DATE
1	AS BUILT		

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE PROJECT NO. 1

INTERCHANGE GENERAL PLAN

STATE ROUTE 10
LORAIN COUNTY

KNAPPEN - TIPPETTS - ABBETT - McCARTHY
CONTRACTING ENGINEER
DESIGN SECTION D-7

DESIGNED A.M.	CHECKED E.F.G.	DATE 4-27-53	
DRAWN J.E.L.	IN CHARGE W.M.H.	SCALE 1" = 150'	

CONTRACT NO. C-22 SHEET 19 OF 78

Tpke Sta. 1028+80.20
255.4'-15" SSPCCP (I-2) 64° Skew
Type B Headwall 98' lt. Tpke ℄
Tpke Sta. 1028+80
291.8'-15" SSPCCP (I-2) 64° Skew
Type B Headwall 130' lt. Tpke ℄
Bridge @ Tpke Sta. 1037+90
244'-15" SSPCCP 5' west of west piers (I-2)
238'-6" SSPCCP 5' east of east piers (I-2)
SPIRAL CURVE DATA
Ls = 200.00'
θs = 1°00'00"
Ts = 2345.30'
Es = 424.51'
CURVE DATA
P.I. Sta 1041+99.50
Δ = 42°47'47"
Δc = 40°47'47"
D = 1°00'00"
R = 5729.58'
Arc = 4079.64
S.E. - 3/16 in per ft.
Sta. R3: 4+40
148.8'-24" ES RCCP (S-27)
Type A Headwall 58' rt. R3 ℄
Type A Inlet 80' lt. R3 ℄
Sta. R2: 9+25
139.8-24" ES RCCP (S-27)
Type A Inlet 62' rt. R2 ℄
Type II Manhole 25.5' lt. R2 ℄ (22' deep)
Sta. R2: 8+84
16'-15" SS RCCP (I-2)
37.6'-15" SS RCCP (I-2) to MH @ Sta. R2: 9+25
Type B Inlet @ rt. curb R-6
Type B Inlet @ lt. side of ctr. curb
Sta. R3: 3+47
60'-15" PIBCCMP (I-2) 16 Ga.
Type B Inlet @ rt. curb R3
Type A Headwall 65' rt. R3 ℄
2 Pipe Specials 16" BCCMP
P.I. #R3:1
Δ = 43°00'19.4"
R = 309.00'
L = 231.93'
T = 121.74'
Sta. R4: 17+00
48'-15" PIBCCMP (I-2) 16 Ga.
Type B Inlet @ rt. curb
Type A Headwall 52' rt. R4 ℄
2 Pipe Specials - 15" BCCMP
Sta. R4: 15+00
62'-15" PIBCCMP (I-2) 16 Ga.
Type B Inlet @ rt. curb
Type A Headwall 66' rt. R4 ℄
2 Pipe Specials - 15" BCCMP
Sta. R4: 13+00
72'-15" PIBCCMP (I-2) 16 Ga.
Type B Inlet @ rt. curb
Type A Headwall 78' rt. R4 ℄
2 Pipe Specials - 15" BCCMP
P.I. #R2:3
Δ = 12°53'14"
R = 2679.25'
L = 135.01'
T = 67.52'
P.I. #R6:5
Δ = 2°53'14"
R = 2672.25'
L = 134.66'
T = 67.35'
Sta. R2: 4+50
162'-15" SS RCCP (I-2)
44'-15" PIBCCMP (I-2) 16 Ga.
Type B Inlet @ rt. curb R5
Type B Inlet @ rt. side ctr curb R2
Type A Headwall 48' rt. R2 ℄
Sta. R6: 2+48
54.5'-15" SS RCCP (I-2)
Type B Inlet @ rt. curb R5
Type B Inlet @ rt. side ctr. curb R2
Type A Headwall 40' rt. R2 ℄
Tpke. Sta. 1038+36 Rt.
13'x6' SS RCCP I-2
Conc. Collar (See Std. Dwg. 16) 156' Rt of ℄
P.I. #R2:2
Δ = 4°01'08"
R = 1639.86'
L = 115.02'
T = 57.54'
P.I. #R5:2
Δ = 4°01'08"
R = 1632.86'
L = 114.53'
T = 57.29'
P.I. #R4:2
Δ = 118°59.37'
Δc = 96°56'45"
R = 256.00'
L = 431.67'
TSL = 337.63'
TSS = 441.95'
LS = 200.00'
θs = 22°22'52"
P.I. #R5:4
Δ = 141°20'48"
R = 209.50'
L = 516.83'
T = 597.35'
P.I. #R6:3
Δ = 38°00'00"
Δc = 27°00'00"
Dc = 11°00'00"
L = 245.46'
TSL = 275.14'
TSS = 154.54'
LS = 200.00'
θs = 11°00'00"
P.I. #R5:3
Δ = 120°58'52"
R = 209.50'
L = 442.36'
T = 370.15'
P.I. #R2:1
Δ = 120°58'52"
R = 216.50'
L = 457.14'
T = 382.52'
P.I. #R6:4
Δ = 125°00'00"
R = 227.00'
L = 495.24'
T = 436.06'
For Details of Turnpike Bridge over Chestnut Ridge Road, Structure #5, see Sheets 45, 46, 47, 48 & 49
For Details of Turnpike Bridge over Ramp R2, Structure #7, see Sheets 50, 51, 52, 53 & 54.
For Details of Ramp R6 Bridge over Chestnut Ridge Road, Structure #6, see Sheets 60, 61, 62 & 63
CHESTNUT RIDGE ROAD
Edge of Shoulder
Type II Curb
Type III Curb
Type I Curb
Type D-3 Guard Rail (48')
Pave Outlet & turn 6'
Ditch Inv. 756.1
Match Line Sta. R2: 11+00
Match Line Sta. R4: 17+00
Match Line Sta. R4: 13+00
Match Line Sta. 1041+00
Match Line Sta. 1027+50
Match Line Sta. R6: 12+00
Begin Type III Curb
Pipe Inv. 772.00
Plug end of pipe
Tpke Sta. 1037+90.00
Sta. R2: 7+59.28
Sta. R5: 7+55.77
Sta. R5: 9+05.75
Sta. R6: 19+75.59
Sta. R6: 17+00
116.2'-24" ES RCCP (S-27)
Type A Headwall 57.5' lt. R6 ℄
Type A Headwall 60.5' rt. R6 ℄
Sta. R5: 15+90
120'-24" ES RCCP (S-27)
54.5'-15" PIBCCMP (I-2) 16 Ga.
Type B Inlet @ rt. curb R5
Type I Manhole (6' deep) 19' lt. R5 ℄
Type A Headwall 58' lt. R5 ℄
Type A Headwall 60' rt. R5 ℄
1 Pipe Special 15" BCCMP
Sta. Tpke 1027+18 to 1027+94
89.5'-36" SS RCCP (S-27), 190' rt. Tpke ℄
(under Chestnut Ridge Road)
2 Type B Headwalls
Sta. R2: 0+00
161'-15" SS RCCP (I-2)
60'-15" PIBCCMP (I-2) 16 Ga.
Type B Inlet @ rt. curb R5
Type B Inlet @ rt. side ctr. curb R2
Type A Headwall 60' rt. R2 ℄
2 Pipe Specials 15" BCCMP
For additional drainage details, see sheet 10
Pave Outlet & turn 6'
Ditch Inv. 755.1
Inv. 754.8
Inv. 759.3
Inv. 768.12
Pipe Inv. 753.22
Inv. 768.48
Inv. 759.00
Inv. 758.91
Pipe Inv. 758.7
Pave Outlet & Turn 6'
Inv. 753.12
Inv. 754.02
Inv. 753.54
Inv. 752.46
Ditch Inv. 752.3
Inv. 751.05
Pipe Inv. 750.6
Inv. 753.4
Pipe Inv. 753.23
Ditch Inv. 753.6
Ditch Inv. 754.07
Pipe Inv. 754.33
Inv. 752.3
Inv. 752.2
Inv. 752.5
Inv. 770.50
Inv. 770.75
Inv. 771.05
Inv. 754.52
Inv. 757.00
Inv. 775.30
Inv. 760.00
Inv. 759.00
Inv. 765.00
Inv. 792.50
Inv. 772.5
Inv. 764.0
Inv. 763.84
Inv. 763.24
Ditch Inv. 760.5
Inv. 760.80
Pave Outlet & turn 6'
Ditch Inv. 759.0
Ditch Inv. 760.4
Pave Outlet & turn 6'
Grade to grate El. 761.7
Grate El. 757.7
Inv. 754.00
Slope 3/16 in 1 ft.
Slope 1 in 1 ft.
Slope 3/16 in 1 ft.
Slope 1 in 1 ft.
Slope 3/16 in 1 ft.
Slope 3/16 in 1 ft.
Slope 1 in 1 ft.
Slope 1 in 1 ft.
Slope 3/16 in 1 ft.
Slope 1 in 1 ft.
Slope 1 in 1 ft.
Slope 3/16 in 1 ft.
Slope 3/16 in 1 ft.
Slope 1 in 1 ft.
Slope 1 in 1 ft.
Slope 3/16 in 1 ft.
Slope 3/16 in 1 ft.
Slope 1 in 1 ft.
Slope 1 in 1 ft.
Slope 1

PLAN

SCALE: 1 IN. = 20 FT

PROFILE-ROUTE 10 RAMP

SCALE: VERT. 1 IN. = 2 FT.
HORIZ. 1 IN. = 50 FT.

LOCATION PLAN

SCALE 1 IN. = 500 FT.

GENERAL NOTES

Design in accordance with Design Specifications for Highway Structures, State of Ohio, Oct. 1, 1951.
Predicted frequency per lane of 2000.
Superstructure: Concrete Slab on WF stringers.
Substructure: Piers - concrete bents on steel bearing piles.
Abutments on steel bearing piles.
All elevations refer to Mean Sea Level Datum as established by U.S. Coastal and Geodetic survey.
For details of borings, see Master Soil Profile, Contract C-22, and respective laboratory logs in book entitled "Ohio Turnpike Project No. 1 Subsurface Exploration Logs, Contract C-22."

TRANSVERSE SECTION WEST BOUND ROADWAY

SCALE: 1 IN. = 10 FT.

TRANSVERSE SECTION EAST BOUND ROADWAY

SCALE: 1 IN. = 10 FT.

ELEVATION

SCALE: 1 IN. = 20 FT.

LONGITUDINAL SECTION

SCALE: 1 IN. = 20 FT.

SUMMARY OF QUANTITIES

ITEM No.	DESCRIPTION	UNIT	ABUT.	PIERS.	SUPERSTR.	GENERAL	TOTAL.
E-2	Excavation for structures	Cu. Yd.	415.1	435.0			850.1
S-1	Concrete for structures - Class C	Cu. Yd.	353.5	433.6	295.7		1082.8
S-4	Reinforcing Steel	Pounds	62,796.5	117,471.3	45,606.8		225,874.6
S-7	Structural Steel	Pounds			196,810		196,810
S-9	Structural Expansion Joints, and/or Contraction Joints	Pounds			16,678		16,678
S-14	Railing Type A	L.F.			510.1		510.1
S-16	First Test Pile	Each	1				1
S-17	Pile Test Load	Each					0
S-18	Furnishing Steel Bearing Piles 10BP42	L.F.				5491	5491
S-18	Driving Steel Bearing Piles "	L.F.				4670.4	4670.4
S-18	Splices for Steel Bearing Piles "	Each					0
S-29	Drainage of Structure - Scupper Type A	Each			3		3
S-29	Drainage of Structure - 6" W.I. Pipe	L.F.				84.4	84.4
S-29	Drainage of Structure - 6" Pipe	L.F.				180	180
I-15	Guard Rail - Type A	L.F.			507.3		507.3
I-24	Delineators	Each			2		2

STRUCTURE NO. 7

REFERENCE DRAWINGS

Framing Plan	Sheet 51.
Abutments	Sheets 52 & 53.
Piers	Sheet 54.
Handrail Details	Std. Dwg. No. 5.
Drainage Details	Std. Dwg. No. 15.
Guard Rail Details	Std. Dwg. No. 17.
Roadway Joints	Sheet 51.

NO.	REVISION	BY	DATE
2	Deck Replacement & Widening, See RMP 43-24-10		1984
1	As Built		10-8-56

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE PROJECT NO. 1

TURNPIKE BRIDGE OVER ROUTE 10 RAMP - GENERAL PLAN & SECTIONS

KNAPPEN - TIPPETTS - ABBETT - McCARTHY
CONTRACTING ENGINEER
DESIGN SECTION D-7

DESIGNED: O.A. | CHECKED: I.E., A.A. | DATE: 4-24-53
DRAWN: J.B.B. | IN CHARGE: O.A. | SCALE: AS NOTED

CONTRACT NO. C-22 SHEET 50 OF 78

FRAMING PLAN

NO SCALE

SECTION A-A

DECK CROSS SECTION WEST BOUND LANE

SCALE: 1/2 IN. = 1 FT.

SECTION B-B

DECK CROSS SECTION EAST BOUND LANE

SCALE: 1/2 IN. = 1 FT.

DETAIL OF EXPANSION ABUTMENT

SCALE: 1/2 IN. = 1 FT.

DETAIL OF FIXED & EXPANSION PIER

SCALE: 1/2 IN. = 1 FT.

DETAIL OF WEB SPLICE

SCALE: 1/2 IN. = 1 FT.

CAMBER DIAGRAM FOR STRINGERS

FOR DEAD LOAD

PARAPET - DETAIL

SCALE: 3/4 IN. = 1 FT.

ROADWAY EXPANSION JOINT AT ABUTMENT

SCALE: 1 IN. = 1 FT.

NOTES

For General Notes see Sheet 50
For Structural Steel Notes see Sheet 34
For Concrete Notes see Sheet 35

NO.	REVISION	BY	DATE
2	DECK REPLACEMENT & WIDENING, SEE RAMP-43-84-10	—	1984
1	AS BUILT		10/8/56

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE PROJECT NO. 1

TURNPIKE BRIDGE OVER RT. 10 RAMP

FRAMING PLAN

KNAPPEN - TIPPETTS - ABBETT - McCARTHY
CONTRACTING ENGINEER
DESIGN SECTION D-7

DESIGNED: O. A. CHECKED: I. E., A. A. DATE: 4-24-53
DRAWN: W. A. IN CHARGE: O. A. SCALE: AS NOTED

STRUCTURE NO. 7

CONTRACT NO. C-22 SHEET 51 OF 78

PLAN
SLAB REMOVED
NORTHWEST ABUTMENT (AS SHOWN)
NORTHEAST ABUTMENT (TO OPP. HAND)

SCALE: 1/4"=1'-0"

SECTION B-B
SCALE: 3/8"=1'-0"

NOTE:
N.W.A. denotes Northwest Abutment
N.E.A. denotes Northeast Abutment

NOTE:
SECT. B-B IS NORMAL TO RAMP-R-2

SLAB PLAN
SCALE: 1/4"=1'-0"

NOTE:
FOR PARAPET REINFORCING SEE SHEET No. 51

END ELEVATION
SCALE: 3/8"=1'-0"

SECTION A-A
SCALE: 3/8"=1'-0"

SECTION C-C
SCALE: 1/4"=1'-0"

FRONT ELEVATION
SCALE: 1/4"=1'-0"

Pile No.	Pile Tip Elevations NW. Abut.	NE. Abut.
1	748.30	753.14
2	748.28	753.02
3	746.47	753.14
4	752.24	753.11
5	749.30	753.14
6	749.74	752.94
7	746.80	751.72
8	749.89	753.35
9	749.80	752.81
10	749.75	753.83
11	750.50	746.83
12	751.00	748.58
13	750.50	750.83
14	751.00	751.92

PILE PLAN
SCALE: 1/8"=1'-0"

NOTES
For General Notes, see Sheet 50.
For Concrete Notes, see Sheet 35.
Max. Pile Load = 40 Tons

STRUCTURE NO. 7

NO.	REVISION	BY	DATE
2	Deck Replacement & Widening, See RMP-43-84.10		1984
1	AS BUILT		10/8/86

OHIO TURNPIKE COMMISSION
OHIO TURNPIKE PROJECT NO. 1

TURNPIKE BRIDGE OVER RT. 10 RAMP
N.W. & N.E. ABUTMENTS

KNAPPEN - TIPPETTS - ABBETT - McCARTHY
CONTRACTING ENGINEER
DESIGN SECTION D-7

DESIGNED: O.A.	CHECKED: I.E. & A.A.	DATE: 4-24-53
DRAWN: A.T. Vaccarello	IN CHARGE O.A.	SCALE: AS NOTED

CONTRACT NO. C-22 SHEET 52 OF 78

ABUTMENT PLAN SLAB REMOVED SOUTHWEST ABUTMENT

SCALE 3/16"=1'-0"

ABUTMENT PLAN SLAB REMOVED SOUTHEAST ABUTMENT

SCALE 3/16"=1'-0"

SLAB PLAN

SOUTHWEST ABUTMENT (AS SHOWN)
SOUTHEAST ABUTMENT (TO OPP. HAND)

SCALE: 3/16"=1'-0"

ELEVATION DD (AS SHOWN)
ELEVATION D'D' (OPPOSITE HAND)

SCALE: 3/16"=1'-0"

SECTION B-B

SCALE: 3/8"=1'-0"

NOTE:
SWA denotes Southwest Abutment
SEA denotes Southeast Abutment

PILE PLAN SOUTHWEST ABUTMENT

SCALE: 1/8"=1'-0"

END ELEVATION

SCALE: 3/8"=1'-0"

PILE PLAN SOUTHEAST ABUTMENT

SCALE: 1/8"=1'-0"

SECTION C-C

SCALE: 1/4"=1'-0"

NOTE:
For Parapet Reinforcing See Sheet No. 51

SECTION A-A

SCALE: 3/8"=1'-0"

Pile No.	Pile Tip Elevations S.W. Abut.	S.E. Abut.
1	748.98	749.75
2	750.22	750.21
3	749.82	752.25
4	751.84	751.58
5	749.74	748.66
6	750.62	752.39
7	749.07	751.83
8	750.30	751.42
9	748.23	749.83
10	750.05	749.07
11	748.90	747.91
12	751.60	751.74
13	748.74	750.08
14	751.19	752.07
15	744.57	749.75
16	750.67	751.36
17	748.67	753.28
18	750.67	751.44
19	751.00	752.18
20	750.75	747.78
21	750.25	750.61
22	750.00	747.69
23	747.67	747.36

STRUCTURE NO. 7

NOTES

For General Notes, see Sheet 50.
For Concrete Notes, see Sheet 35.
Max. Pile Load = 40 Tons

NO.	REVISION	BY	DATE
2	Deck Extensement & Widening, See RMP-49-84-10		1984
1	As Built		10/18/86

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE PROJECT NO. 1

TURNPIKE BRIDGE OVER RT. 10 RAMP
S.W. & S.E. ABUTMENTS

KNAPPEN - TIPPETTS - ABBETT - McCARTHY
CONTRACTING ENGINEER
DESIGN SECTION D-7

DESIGNED: O.A. | CHECKED: I.E., A.A. | DATE: 4-24-53
DRAWN: A. VINITSKY | IN CHARGE: O.A. | SCALE: AS NOTED

CONTRACT NO. C-22 SHEET 53 OF 78

Pile No.	Pile Tip Elevations Pier No. 1	Pier No. 2
1	750.83	749.25
2	750.62	751.83
3	748.67	749.00
4	750.45	752.15
5	749.25	751.91
6	750.13	751.67
7	749.42	749.42
8	750.70	751.59
9	749.00	750.42
10	*746.00	752.00
11	748.53	752.80
12	748.83	751.50
13	750.38	752.32
14	750.17	751.75
15	750.70	750.06
16	748.91	750.50
17	750.38	752.97
18	750.75	749.08

*= Test Pile used as Service Pile.

PLAN
WESTBOUND LANE PIER

All piles are 10 BP 42

NOTE: Elevations to bottom of masonry plate given on Framing Plan, Sheet 51

PLAN
EASTBOUND LANE PIER

ELEVATION
WESTBOUND LANE PIER

ELEVATION
EASTBOUND LANE PIER

SECTION B-B

SECTION A-A
SCALE: 1/2 IN. = 1 FT.

SECTION C-C
SCALE: 1/2 IN. = 1 FT.

SECTION D-D
SCALE: 1/2 IN. = 1 FT.

SECTION E-E
SCALE: 1/2 IN. = 1 FT.

	PIER NO.	DIMENSIONS F1	F2	F3	G	R	I	J	K	L	M1	M2	REINFORCEMENT a	b	c	d	e	g	i	j	k	m	n		h
WESTBOUND LANE	Pier 1	90°	—	—	3'-3"	4'-4"	13'-0"	38'-0"	11'-6½"	3'-0"	7'-3¼"	—	4-1¼"□	6-1¼"□	8-1¼"□	56-1¼"□	1"Φ@6"	1"Φ@9"	3/8"Φ@8"	3/8"Φ@8"	1"Φ@6"	1"Φ@9"	32-⅝"Φ		56-1¼"□
	Pier 2	do	—	—	do	do	do	do	11'-6½"	do	7'-3¼"	—	do.	do.	do.	do.	do.	do	do	do	do	do	do.		do.
EASTBOUND LANE	Pier 3	do	89°21'31"	88°43'03"	do	4'-5"	do	61'-0"	14'-1½"	do	7'-1¼"	7'-11"	do.	do.	do.	96-1¼"□	1"Φ@6½"	1"Φ@9½"	do	do	1"Φ@6"	1"Φ@9½"	60-⅝"Φ		96-1¼"□
	Pier 4	do	do	do	do	4'-4"	do	60'-0"	13'-9¾"	do	7'-1¼"	7'-5½"	do.	do.	do.	do.	do.	do	do	do	do	do	do.		do.

Pile No.	Pile Tip Elevations Pier No. 3	Pier No. 4
1	749.83	749.25
2	752.24	752.56
3	750.75	752.50
4	751.91	751.83
5	749.83	750.83
6	752.24	753.29
7	751.33	751.75
8	750.75	749.42
9	750.94	751.19
10	750.00	749.75
11	751.50	751.35
12	750.59	751.17
13	751.50	750.86
14	751.33	751.00
15	750.59	751.25
16	751.92	750.13
17	751.84	751.75
18	751.50	750.86
19	750.59	751.50
20	752.24	751.67
21	750.17	752.00
22	750.75	750.83
23	751.50	750.45
24	751.17	747.75
25	752.24	752.07
26	750.59	752.59
27	752.07	750.13
28	750.17	750.42

STRUCTURE NO. 7

NOTES
For General Notes see Sheet 50
For Concrete Notes see Sheet 35.
Maximum Pile Load = 40 Tons

NO.	REVISION	BY	DATE
2	DECK REPLACEMENT; WORKING, SEE EMP. 43-81-0		1984
1	AS BUILT		10/8/56

OHIO TURNPIKE COMMISSION
OHIO TURNPIKE PROJECT NO. 1

TURNPIKE BRIDGE OVER RT. 10 RAMP
PIERS

KNAPPEN - TIPPETTS - ABBETT - McCARTHY
CONTRACTING ENGINEER
DESIGN SECTION D-7

DESIGNED: O. A. CHECKED: I. E., A. A. DATE: 4-24-53
DRAWN: W. A. B. IN CHARGE: O. A. SCALE: 1/4 IN. & AS NOTED

CONTRACT NO. C-22 SHEET 54 OF 78