

CONTRACT No. 83799

SUMMARY OF QUANTITIES

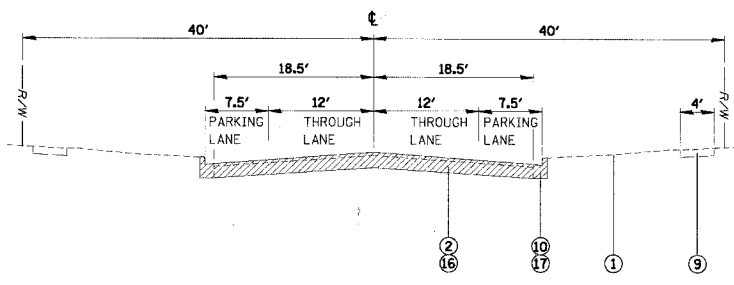
SPECIALTY ITEM	ITEM	ITEMS	UNIT	TOTAL QUANTITY	1000-2A QUANTITY	Y031-1F QUANTITY
*	81400100	HANDHOLE	EACH	4	0	4
*	81400200	HEAVY-DUTY HANDHOLE	EACH	4	0	4
*	81400300	DOUBLE HANDHOLE	EACH	2	0	2
*	81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1062	0	1062
*	84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	2	0	0
*	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2	0	2
*	85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1	0	1
*	86400100	TRANSCEIVER - FIBER OPTIC	EACH	1	0	1
*	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	899	0	899
*	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1702	0	1702
*	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2184	0	2184
*	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1112	0	1112
*	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2631	0	2631
*	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	35	0	35
*	87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	1	0	1
*	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3	0	3
*	87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1	0	1
*	87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1	0	1
*	87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1	0	1
*	87700250	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1	0	1
*	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	16	0	16
*	87800200	CONCRETE FOUNDATION, TYPE D	FOOT	4	0	4
*	87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	60	0	60
*	87900200	DRILL EXISTING HANDHOLE	EACH	1	0	1
*	88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8	0	8
*	88500100	INDUCTIVE LOOP DETECTOR	EACH	11	0	11
*	88800100	DETECTOR LOOP TYPE I	FOOT	780	0	780
*	88800100	PEDESTRIAN PUSH-BUTTON	EACH	5	0	5
*	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1	0	1
*	89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2	0	2
*	89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1	0	1
*	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	10828	0	10828
*	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	0	1
*	89502380	REMOVE EXISTING HANDHOLE	EACH	9	0	9
*	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	9	0	9
*	X0322033	STORM SEWER (WATER MAIN REQUIREMENTS), 12"	FOOT	425	425	0
*	X0322034	STORM SEWER (WATER MAIN REQUIREMENTS), 15"	FOOT	42	42	0
*	X0322035	STORM SEWER (WATER MAIN REQUIREMENTS), 18"	FOOT	94	94	0
*	X0322125	STORM SEWER (WATER MAIN REQUIREMENTS), 24"	FOOT	66	66	0
*	X0322925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	5598	0	5598
*	X0323426	SEDIMENT CONTROL, DRAINAGE STRUCTURE INLET FILTER CLEANING	EACH	16	16	0
*	X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50 *	TON	4165	4165	0
*	X4066614	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50	TON	13300	13300	0
*	X4067100	POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50	TON	180	180	0
*	X7015000	CHANGEABLE MESSAGE SIGN	CAL MO	6	6	0
*	X8050015	SERVICE INSTALLATION - POLE MOUNTED	EACH	1	0	1
*	X8710020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	5664	0	5664
*	X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	829	0	829
*	X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	399	0	399
*	X8800020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	5	0	5
*	X8800045	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3	0	3
*	X8800060	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1	0	1
*	X8805280	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION BRACKET MOUNTED	EACH	3	0	3
*	X8810610	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	2	0	2
*	X8810620	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED	EACH	3	0	3
*	XX002267	MEDIAN REMOVAL AND REPLACEMENT	SQ FT	272	0	272
*	XX002856	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM	L SUM	1	0	1
*	XX003404	TEMPORARY PAVEMENT, 8"	SQ YD	450	450	0
*	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	0
Δ	Z0076600	TRAINEES	HOUR	1000	1000	0
*	XX005553	CLASS D PATCHES (SPECIAL) 6-INCHES, SUPERPAVE	SQ YD	250	250	0
*	YX006197	PAVER FIELDS	SQ YD	245	245	0

* SPECIALTY ITEMS
 Δ Y080
 * Revised 6/7/05

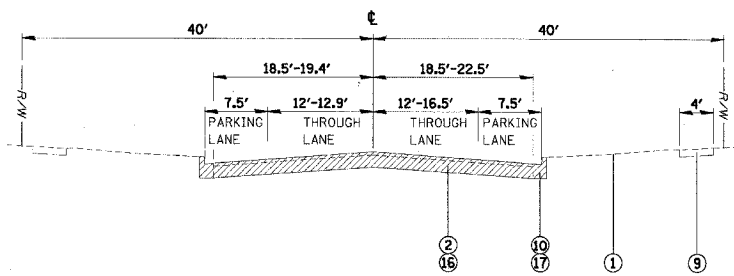
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2556	00-00070-00-FP	COOK	98	6
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

CONTRACT No. 83799

DESIGN DESIGNATION - LOCAL COLLECTOR
 STRUCTURAL DESIGN TRAFFIC: YEAR 2025
 PV= 3040 SU= 128 MU= 32
 ROAD/STREET CLASSIFICATION: CLASS II
 PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
 P= 95% S= 4% M= 1%
 TRAFFIC FACTOR: MINIMUM TF= 0.27 ACTUAL TF= 0.85
 SUBGRADE SUPPORT RATING:
 SSR= FAIR (ENTIRE PROJECT)



EXISTING TYPICAL SECTION
 STA. 6+01.08 TO STA. 9+67.90
 STA. 14+30 TO STA. 81+17.72



EXISTING TYPICAL SECTION
 STA. 10+32.34 TO STA. 14+30

LEGEND

- 1 EXISTING GROUND LINE
- 2 EXISTING PAVEMENT - 12" THICKNESS (6" ASPHALT, 6" STONE)
- 3 AGGREGATE BASE COURSE, TYPE B, 8"
- * 4 BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50 (2")
- 5 BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N50 (7")
- 6 COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.18
- 7 TOPSOIL FURNISH AND PLACE 4"
- 8 POROUS GRANULAR EMBANKMENT, SUBGRADE (AS REQUIRED)
- 9 EXISTING SIDEWALK
- 10 EXISTING CURB & GUTTER
- 11 EXISTING SUBGRADE TO REMAIN (VA'. DEPTH)
- 12 EXISTING CURB & GUTTER TO REMAIN
- 13 POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50 (QC/QA) (1.0" & VARIES)
- 14 SODDING, SALT TOLERANT
- 15 BITUMINOUS SURFACE REMOVAL - 3"
- 16 PAVEMENT REMOVAL
- 17 COMBINATION CURB AND GUTTER REMOVAL
- 19 PORTLAND CEMENT CONCRETE PAVEMENT, 10" (JOINTED)
- 20 SUB-BASE GRANULAR, TYPE B, 6"
- 21 No. 8 DOWEL BARS @ 24" ON CENTER (INCLUDED IN THE COST OF ADJACENT PAVEMENT)

	EARTH EXC. CU YD	UNDERCUT AND PGE CU YD	EMBANKM. CU YD	EARTH. ** SHRINKAGE CU YD	BALANCE * CU YD
TOTAL	15327.5	1373	937	13028	12091

* EARTHWORK BALANCE WASTE (+) SHORTAGE (-)
 ** EARTH EXCAVATION (FILL) ADJUSTED FOR SHRINKAGE 15%

BITUMINOUS MIXTURE REQUIREMENT

ITEM	AC TYPE	VOIDS	RAP%
BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	PG 64-22	4 1/2 @ 50 GYR	15%
BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N50	PG 58-22	4 1/2 @ 50 GYR	25%
POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50	SBS/SBR PG 76-28	2.5 % @ 50 GYR	0%
CLASS D PATCHES (SPECIAL) 6-INCHES, SUPERPAVE, IL-19.0	PG 64-22	4 1/2 @ 70 GYR	15%
BITUMINOUS DRIVEWAY PAVEMENT, SUPERPAVE, 3", MIX "C", N50	PG 64-22	4 1/2 @ 50 GYR	15%

THE UNIT WEIGHT USE TO CALCULATE ALL BITUMINOUS SURFACE MIXTURE QUANTITIES IS 112 LBS/SY/IN.

*Revised 6/17/05

SOILS NOTE:

POROUS GRANULAR EMBANKMENT SUBGRADE (PGES) HAS BEEN PROVIDED AT THE LOCATIONS INDICATED FOR SOILS WHICH TEND TO BE UNSTABLE WHEN WET. ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGE WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER (BY USE OF A CONE PENETROMETER IN CONJUNCTION WITH THE IDOT SUBGRADE MANUAL). IF UNSUITABLE SOILS ARE ENCOUNTERED THE SOILS SHALL BE REMOVED AND REPLACED WITH PGE AND GROUND FABRIC FOR GROUND STABILIZATION. IF UNSTABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY WILL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

STA. TO STA.	ESTIMATED UNDERCUT
26+50 TO 29+40	12"
44+20 TO 47+20	12"
77+70 TO 80+20	12"

* ITEM #5 (BITUMINOUS CONCRETE BINDER COURSE) SHALL BE PLACED IN LAYERS (2 1/4" TO 3" THICKNESS PER LAYER)



CHRISTOPHER B. BURKE ENGINEERING LTD.
 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 823-0500

CLIENT:



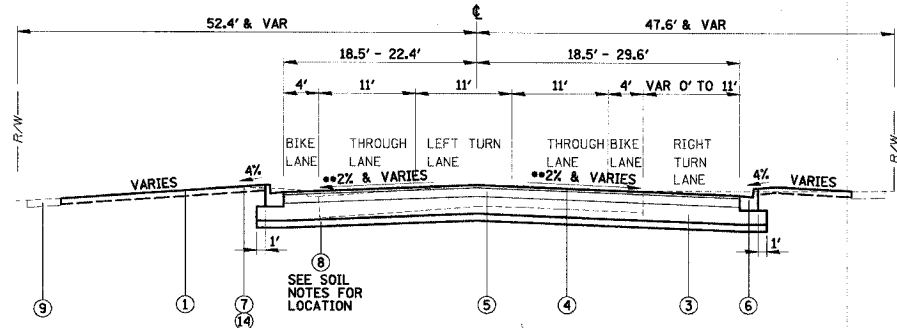
VILLAGE OF SCHAUMBURG
 Engineering Department
 101 Schaumburg Court
 Schaumburg, IL. 60193-7806

NO.	DATE	NATURE OF REVISION	CHKD.
FILE NAME		N:\SCHAUMBURG\01-434\DESIGN\WALN_EXTYP.TYP	
DSGN.	GS		
DWN.	GS		
CHKD.	JGS		
SCALE:	NOT TO SCALE		
DATE:	04/05/2005		

TITLE:
EXISTING TYPICAL SECTIONS
C-91-108-04

PROJECT NO. 01-434
 SHEET 6 OF 98
 DRAWING NO. 6

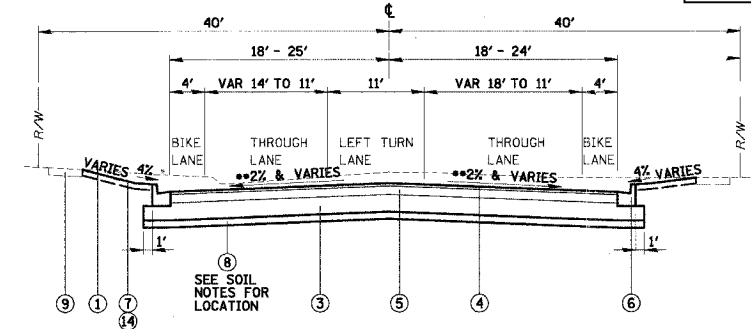
CONTRACT No. 83799



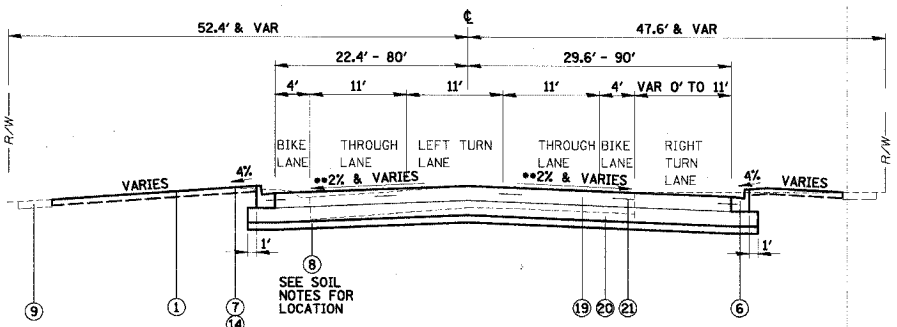
PROPOSED TYPICAL SECTION
STA. 6+01.08 TO 9+15.07

****SEE INFORMATION**

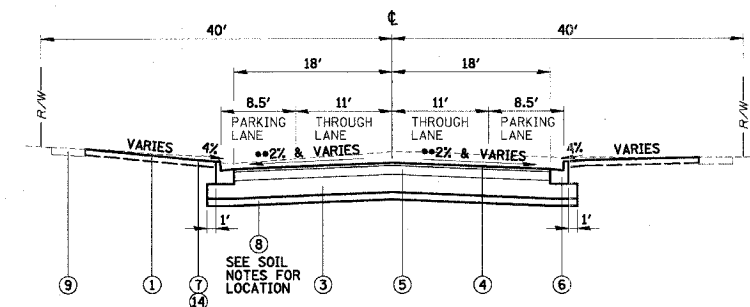
- WALNUT LANE**
- TRANS FROM 2.0% NC TO 2.0% SE STA. 11+08 TO STA. 11+99
 - 2.0% SE STA. 11+99 TO STA. 15+60
 - TRANS FROM 2.0% SE TO 2.0% NC STA. 15+60 TO STA. 16+51
 - TRANS FROM 2.0% NC TO 2.0% SE STA. 36+88 TO STA. 37+79
 - 2.0% SE STA. 37+79 TO STA. 40+38
 - TRANS FROM 2.0% SE TO 2.0% NC STA. 40+38 TO STA. 41+29
 - TRANS FROM 2.0% NC TO 2.0% SE STA. 49+86 TO STA. 50+77
 - 2.0% SE STA. 50+77 TO STA. 53+37
 - TRANS FROM 2.0% SE TO 2.0% NC STA. 53+37 TO STA. 54+28
 - TRANS FROM 2.0% NC TO 2.0% SE STA. 69+56 TO STA. 70+47
 - 2.0% SE STA. 70+47 TO STA. 72+63
 - TRANS FROM 2.0% SE TO 2.0% NC STA. 72+63 TO STA. 73+54



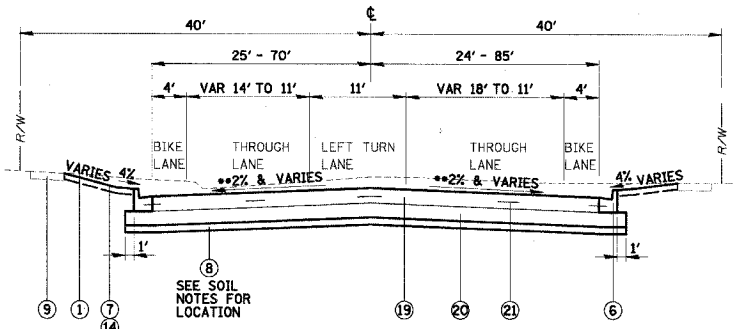
PROPOSED TYPICAL SECTION
STA. 10+85 TO 14+11.82



PROPOSED TYPICAL SECTION
STA. 9+15.07 TO 9+67.90



PROPOSED TYPICAL SECTION
STA. 14+11.82 TO STA. 81+17.72



PROPOSED TYPICAL SECTION
STA. 10+32.34 TO 10+85

LEGEND

- EXISTING GROUND LINE
- EXISTING PAVEMENT - 12" THICKNESS (6" ASPHALT, 6" STONE)
- AGGREGATE BASE COURSE, TYPE B, 8"
- BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50 (2")
- BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N50 (1")
- COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.1B
- TOPSOIL FURNISH AND PLACE 4"
- POROUS GRANULAR EMBANKMENT, SUBGRADE (AS REQUIRED)
- EXISTING SIDEWALK
- EXISTING CURB & GUTTER
- EXISTING SUBGRADE TO REMAIN (VAR. DEPTH)
- EXISTING CURB & GUTTER TO REMAIN
- POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50 (1.0" & VARIES)
- SODDING, SALT TOLERANT
- BITUMINOUS SURFACE REMOVAL - 3"
- PAVEMENT REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- PORTLAND CEMENT CONCRETE PAVEMENT, 10" (JOINTED)
- SUB-BASE GRANULAR, TYPE B, 6"
- No. 8 DOWEL BARS @ 24" ON CENTER (INCLUDED IN THE COST OF ADJACENT PAVEMENT)

* ITEM #5 (BITUMINOUS CONCRETE BINDER COURSE) SHALL BE PLACED IN LAYERS (2 1/4" TO 3" THICKNESS PER LAYER)

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BITUMINOUS MIXTURE REQUIREMENT

ITEM	AC TYPE	VOIDS	RAP%
BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX C, N50	PG 64-22	4 1/2 @ 50 GYR	15%
BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N50	PG 58-22	4 1/2 @ 50 GYR	25%
POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50	SBS/SBR PG 76-28	2.5 1/2 @ 50 GYR	0%
CLASS D PATCHES (SPECIAL)	PG 64-22	4 1/2 @ 70 GYR	15%
6-INCHES, SUPERPAVE, IL-19.0	PG 64-22	4 1/2 @ 50 GYR	15%

THE UNIT WEIGHT USE TO CALCULATE ALL BITUMINOUS SURFACE MIXTURE QUANTITIES IS 112 LBS/SY/IN.

*Revised 6/7/05

SOILS NOTE:

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CHRISTOPHER B. BURKE ENGINEERING LTD.
 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 823-0500

CLIENT: **VILLAGE OF SCHAUMBURG**
 Engineering Department
 101 Schaumburg Court
 Schaumburg, IL. 60193-7806

NO.	DATE	NATURE OF REVISION	CHKD.
FILE NAME	N:\SCHAUMBURG\01-434\DESIGN\WALN.PRTYP.TYP		

PROJECT NO. 01-434
 SHEET 7 OF 98
 DRAWING NO. 7

DSGN. GS
 DWN. GS
 CHKD. JGS
 SCALE: NOT TO SCALE
 DATE: 04/06/2005

TITLE: **PROPOSED TYPICAL SECTIONS**
C-91-108-04