

0250719213.DGN FEB. 21, 2006

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 788 (C.H. 24/ C.H. 16)	03-00075-00-BR, WASH. 03-00082-00-BR, CLIN.	WASHINGTON CLINTON	22	2

GUARDRAIL SCHEDULE

STEEL PLATE BEAM GUARD RAIL, TYPE A (63000000)	
STA. 202+66 TO 203+66, RT.	= 100.0 FT.
STA. 203+35 TO 203+60, LT.	= 25.0 FT.
STA. 207+42 TO 208+42, LT.	= 100.0 FT.
STA. 207+48 TO 207+73, RT.	= 25.0 FT.
TOTAL	= 250.0 FT.

GUARDRAIL MARKERS (78200405) EACH		
LOCATION	TYPE	
S.N. 095-3252	A	B
RT. 202+70	1	-
RT. 203+50	1	-
RT. 204+30	-	1
RT. 205+10	-	1
RT. 205+90	-	1
RT. 206+70	-	1
RT. 207+70	1	-
LT. 203+40	1	-
LT. 204+40	-	1
LT. 205+20	-	1
LT. 206+00	-	1
LT. 206+80	-	1
LT. 207+60	1	-
LT. 208+40	1	-
TOTAL	6	8

LOCATION OF WORK				F.A.S. 788 (C.H. 24/ C.H. 16) ROAD STA. 199+75 TO 211+25	BRIDGE STA. 205+54
SUMMARY OF QUANTITIES				CONSTRUCTION CODE TYPE	
CODE NO.	ITEM	UNIT	QUANTITY	1000	X081-2A
20200100	EARTH EXCAVATION	CU. YD.	69	69	
20300100	CHANNEL EXCAVATION	CU. YD.	2,471		2,471
20400800	FURNISHED EXCAVATION	CU. YD.	328	328	
20700220	POROUS GRANULAR EMBANKMENT	CU. YD.	112		112
25000200	SEEDING, CLASS 2	ACRE	1.4	1.4	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	126	126	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	126	126	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	126	126	
25100115	MULCH, METHOD 2	ACRE	1.4	1.4	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	140	140	
28000400	PERIMETER EROSION BARRIER	FOOT	2,408	2,408	
28100109	STONE RIPRAP, CLASS A5	SQ. YD.	820		820
28200200	FILTER FABRIC	SQ. YD.	820		820
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	4	4	
40600300	AGGREGATE (PRIME COAT)	TON	19	19	
40600980	BITUMINOUS SURFACE REMOVAL - BUTT JOINT	SQ. YD.	713	713	
42001165	BRIDGE APPROACH PAVEMENT	SQ. YD.	220	220	
48100100	AGGREGATE SHOULDERS, TYPE A	TON	378	378	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50200100	STRUCTURE EXCAVATION	CU. YD.	339		339
50300225	CONCRETE STRUCTURES	CU. YD.	188.2		188.2
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	17,280	160	17,120
50901005	STEEL BRIDGE RAIL, TYPE SM	FOOT	640		640
51201610	FURNISHING STEEL PILES HP12x63	FOOT	564		564
51201900	FURNISHING STEEL PILES HP14x89	FOOT	650		650
51202700	DRIVING STEEL PILES	FOOT	1,214		1,214
51203610	TEST PILE STEEL HP12x63	EACH	2		2
51203900	TEST PILE STEEL HP14x89	EACH	2		2
51204600	METAL SHOES	EACH	26		26
51500100	NAME PLATES	EACH	1		1
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ. YD.	1,167		1,167
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	3,180		3,180
*63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	250	250	
*63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4	
*63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	4	4	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL. MO.	5	5	
67100100	MOBILIZATION	L SUM	1	1	
70101700	TRAFFIC CONTROL AND PROTECTION	L SUM	1	1	
*78001110	PAINT PAVEMENT MARKING-LINE 4"	FOOT	2,588	2,588	
78200405	GUARDRAIL MARKERS	EACH	14	14	
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
X3550010	BITUMINOUS BASE COURSE SUPERPAVE	TON	854	854	
X3560140	BITUMINOUS CONCRETE BASE COURSE WIDENING, SUPERPAVE 10 INCH	SQ YD	604	604	
X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	TON	548	385	163
X4066614	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50	TON	196	196	
X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH	1		1
X5020502	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 2	EACH	1		1
XX003515	PRECAST PRESTRESSED CONCRETE DECK BEAMS (42" DEPTH)	SO. FT.	10,494		10,494

EARTHWORK SCHEDULE (SEE SPECIAL PROVISIONS)

LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD
STA. 199+75 TO 203+94.36	42	31	965	-934
BRIDGE OMISSION				
STA. 207+13.64 TO 211+25	27	20	1,267	-1,247
SUBTOTAL	69	51	2,232	-2,181
ALLOWANCE FOR 75% OF CHANNEL EXCAVATION IN EMBANKMENT				+1,853
TOTAL				-328

NOTE: SCHEDULE ASSUMES A 25% SHRINKAGE FACTOR.

MIXTURE REQUIREMENTS - SUPERPAVE PROJECT

ROUTE	F.A.S. 788 (C.H. 24/C.H. 16)
SECTION	03-00075-00-BR/ 03-00082-00-BR
COUNTY	WASHINGTON / CLINTON
CONTRACT	

DESCRIPTION: HOYLETON - HOFFMAN RD. OVER CROOKED CREEK
20 YR. ESAL'S: 0.25

MIXTURE USE	SURFACE	BINDER	BASE COURSE	WIDENING
AC/PG	PG 64-22	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX)	0%	10%	15%	15%
DESIGN AIR VOIDS	4.0% @ Ndes=50	4.0% @ Ndes=50	4.0% @ Ndes=50	4.0% @ Ndes=50
MIX COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 19.0	N/A	N/A
FRICTION AGG	MIXTURE C	N/A	N/A	N/A

GENERAL NOTES

- ALL ELEVATIONS REFER TO U.S.G.S. MEAN SEA LEVEL.
- IF SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- UTILITIES ARE SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION AND THEIR TRUE LOCATION IS NOT GUARANTEED TO BE AS SHOWN ON THE PLANS. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND CARRY ON HIS OPERATIONS ACCORDINGLY.
- THE STANDARDS WITH THE REVISION NUMBER LISTED IN THE INDEX OF SHEETS INCLUDED IN THE PLANS SHALL HOLD PRECEDENCE OVER THE STANDARD NUMBERS LISTED IN THE SPECIAL PROVISIONS OR PLANS OF THE CONTRACT.

EXTRA BARS FOR TEST SAMPLES

BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	1	#5	10'-0"	—
h ₃ (E)	1	#6	33'-3"	—
p(E)	1	#7	34'-0"	—
v(E)	1	#4	10'-3"	—
v ₁ (E)	1	#8	6'-1"	—

* THESE BARS SHALL BE IDENTICAL TO AND DELIVERED WITH THE BARS OF THE SAME MARK LISTED IN THE STRUCTURE SHEETS. ONE BAR OF EACH OF THESE MARKS WILL BE SELECTED BY THE ENGINEER TO BE USED AS A TEST SAMPLE.

** THIS CHART ASSUMES THAT ALL BARS OF THE SAME SIZE ON THE JOB WILL HAVE THE SAME HEAT NUMBER. IF BARS OF THE SAME SIZE ON THE JOB HAVE DIFFERENT HEAT NUMBERS, THEN THE CONTRACTOR SHALL SUPPLY ADDITIONAL BARS FROM OTHER HEAT NUMBERS FOR SAMPLING BY THE ENGINEER AT NO ADDITIONAL COST.

SUMMARY OF QUANTITIES AND SCHEDULES

F.A.S. 788 (C.H. 24/C.H. 16)
OVER CROOKED CREEK
SECTION 03-00075-00-BR
WASHINGTON COUNTY
SECTION 03-00082-00-BR
CLINTON COUNTY

*** SPECIALTY ITEMS**

APPLICATION RATES

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

DESIGNED:	L.D.G.	NITROGEN FERTILIZER NUTRIENT	90 LBS/ACRE	BITUMINOUS CONCRETE	112 LBS/SY/IN
CHECKED:	B.G.H.	PHOSPHORUS FERTILIZER NUTRIENT	90 LBS/ACRE	BITUMINOUS MATERIALS (PRIME COAT)	
DRAWN:	K.H.L.	POTASSIUM FERTILIZER NUTRIENT	90 LBS/ACRE	BITUMINOUS/OIL & CHIP SURFACE	0.562 LB/SY
CHECKED:	L.D.G.	MULCH METHOD 2	2 TONS/ACRE	AGGREGATE SURFACE	2.811 LB/SY
		GRANULAR MATERIAL	2.05 TONS/CY	AGGREGATE (PRIME COAT)	
		RIPRAP	1.6 TONS/CY	BITUMINOUS/OIL & CHIP SURFACE	3 LBS/SY
				AGGREGATE SURFACE	5 LBS/SY