

DATE _____
 BY _____
 REFERENCES NOTED _____
 REFERENCES CHECKED _____

CONCRETE PAVEMENT			
STATION	SIDE	200 mm UNIFORM (AE) (m ²)	REMARKS
1+416	RT.	52.54	MERIDIAN DR. VALLEY GUTTER
1+418	LT.	56.32	42ND. ST. N. VALLEY GUTTER
1+625	RT.	69.05	COMMERCIAL ENT./FULL RADIUS
1+741	LT.	89.31	BACHMAN DR. VALLEY GUTTER
1+789	LT.	101.34	CHURCH ENTRANCE/FULL RADIUS
1+923	LT.	67.78	CHURCH ENTRANCE/FULL RADIUS
1+992	RT.	80.56	FUTURE STREET VALLEY GUTTER
2+023	LT.	42.64	COMMERCIAL ENT./FULL RADIUS
2+192	LT.	62.15	MILRO VALLEY GUTTER
2+395	RT.	80.19	TIMBERCREEK VALLEY GUTTER
2+619	LT.	61.65	KEYWEST VALLEY GUTTER
PROJECT TOTAL		763.53	

CONCRETE PAVEMENT (AE)		
STATION TO STATION	240 mm UNIFORM (NRDJ) (m ²)	DESCRIPTION
1+332 - 1+400	179.34	CENTER TURN LANE
1+332 - 1+430	373.83	RIGHT DECEL LANE
1+403 - 1+432	71.77	WIDENING LEFT
PROJECT TOTAL	624.94	

CRUSHED STONE SUBGRADE				
STATION TO STATION	CRUSHED STONE SUBGRADE (205 mm) (m ²)	CRUSHED STONE SUBGRADE (100 mm) (m ²)	GEOGRID REINFORCEMENT (FOR BASE) (m ²)	REMARKS
1+332 - 1+430	448.12	448.12	448.12	RIGHT DECEL LANE
1+332 - 1+400	205.58	205.58	205.58	CENTER TURN LANE
1+403 - 1+432	71.77	71.77	71.77	WIDENING LEFT
1+432 - 1+721	5820.92		5820.92	
1+721 - 1+761	995.35		995.35	INCLUDES BACHMAN
1+761 - 2+177	8389.08		8389.08	
2+177 - 2+207	844.91		844.91	INCLUDES MILRO
2+207 - 2+381	3547.34		3547.34	
2+381 - 2+417	994.52		994.52	INCLUDES TIMBERCREEK
2+417 - 2+603	3798.71		3798.71	
2+603 - 2+633	829.41		829.41	INCLUDES KEYWEST
2+633 - 2+806	2797.33		2797.33	
5+013 - 5+024	165.54		165.54	MERIDIAN DR.
4+966 - 4+975	79.58	79.58	79.58	42ND. ST. N.
4+975 - 4+992	238.75	238.75	238.75	42ND. ST. N.
PROJECT TOTAL	28421.86	805.05	29226.91	

REMOVAL OF EXISTING STRUCTURES *		
STATION	OFFSET	DESCRIPTION
1+384	0 m RT- 3 m RT.	152 mm UNDERDRAIN PIPE
1+384	11 m RT- 20 m RT.	152 mm UNDERDRAIN PIPE/OUTLET FLUME
1+736.1	6.8 m LT.	600 mm RCP
1+789.4	6.6 m LT.	450 mm CMP
1+922.7	7.1 m LT.	450 mm CMP
1+993.7	6.6 m LT.	CONCRETE HEADWALL
1+996.4	6.8 m LT.	450 mm RCP
1+999.0	6.7 m LT.	CONCRETE HEADWALL
1+990.0 - 2+025.1	10.7 m LT.	254 mm SAN. SWR./CONC. ENCASEMENT
2+025.1	LT. & RT.	254 mm SAN. SWR.
2+181.8	10.9 m LT.	CONCRETE HEADWALL
2+190.7	10.9 m LT.	900 mm RCP
2+199.6	11.0 m LT.	MANHOLE
2+201.8	11.0 m LT.	750 mm RCP
2+204.1	11.1 m LT.	CONCRETE HEADWALL
2+250.4	20.5 m LT.	STORM SEWER MANHOLE
2+250.4	16.6 m LT.	450 mm RCP
2+618.2	11.5 m LT.	600 mm RCP
2+688.1	6.9 m LT.	625 mm x 535 mm HECMP

* THE LISTING MAY NOT BE COMPLETE. PAYMENT FOR STRUCTURES OR OBSTRUCTIONS NOT LISTED BUT WHOSE REMOVAL IS REQUIRED BY THE CONSTRUCTION, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE BID ITEM "REMOVAL OF EXISTING STRUCTURES".

CURB & GUTTER, COMBINED (AE)					
LOCATION	TYPE I (m)	TYPE II (m)	TYPE III (m)	REMARKS	
1+332 - 1+353	RT.		21.52	MEDIAN/MERIDIAN	
1+353 - 1+358	LT.		5.59	* MOUNTABLE CURB	
1+353 - 1+358	LT.		11.18	MEDIAN/MERIDIAN	
1+332 - 1+402	RT.	70.42			
1+404 - 1+432	LT.	32.14		CURB RETURNS/42ND. ST. N.	
1+402 - 1+430	RT.	31.45		CURB RETURNS/MERIDIAN DR.	
1+432 - 1+721	LT.	289.01			
1+430 - 1+615	RT.	184.63			
1+615 - 1+635	RT.		19.95	DRIVE ENTRANCE	
1+635 - 1+973	RT.	338.22			
1+721 - 1+761	LT.	28.28		CURB RETURNS/BACHMAN DR.	
1+761 - 1+779	LT.	18.42			
1+779 - 1+800	LT.		20.19	DRIVE ENTRANCE	
1+800 - 1+915	LT.	115.11			
1+915 - 1+931	LT.		16.20	DRIVE ENTRANCE	
1+931 - 2+016	LT.	85.95			
1+973 - 2+010	RT.	20.74		CURB RETURNS/FUTURE ST.	
2+010 - 2+381	RT.	370.56			
2+016 - 2+030	LT.		13.20	DRIVE ENTRANCE	
2+030 - 2+177	LT.	147.02			
2+177 - 2+207	LT.	28.28		CURB RETURNS/MILRO	
2+207 - 2+603	LT.	396.04			
2+381 - 2+417	RT.	28.28		CURB RETURNS/TIMBERCREEK	
2+417 - 2+802	RT.	384.76			
2+803 - 2+633	LT.	32.53		CURB RETURNS/KEYWEST	
2+633 - 2+806	LT.	172.55			
4+975 - 4+980	RT.	4.95		42ND. ST. N.	
4+975 - 4+980	LT.	4.95		42ND. ST. N.	
5+016 - 5+024	C/L		19.22	MEDIAN/TIMBERCREEK	
5+018 - 5+024	RT.	5.91		TIMBERCREEK	
5+018 - 5+024	LT.	5.91		TIMBERCREEK	
4+975 - 4+978	RT.	2.76		KEYWEST	
4+975 - 4+982	LT.	2.76		KEYWEST	
SUB TOTAL		2801.63	69.54	57.51	
TOTAL (TYPE I, II & III)			2928.68		

* MOUNTABLE CURB SHALL BE SUBSIDIARY TO "CURB AND GUTTER, COMBINED (AE)".

ADJUST VALVE BOX/FIRE HYDRANT AND MANHOLES					
STATION	OFFSET	WATER (EA.)	FH (EA.)	SSMH (EA.)	
1+426.0	28.6 m RT.	1			
1+431.5	28.2 m RT.	1			
1+432.2	26.6 m LT.		1		
1+514.0	22.7 m LT.			1	
2+178.5	13.1 m RT.	1			
2+179.4	11.9 m RT.	1			
2+182.7	18.3 m LT.	1			
2+183.1	8.8 m RT.				
2+384.4	13.2 m RT.	1			
2+385.2	11.8 m RT.	1			
2+385.6	9.8 m RT.				
2+625.9	19.7 m LT.		1		
2+625.9	12.4 m RT.	1			
2+626.0	19.7 m LT.	1			
2+707.8	5.9 m RT.		1*		
TOTAL		9	3	1	

* RELOCATE/ADJUST FIRE HYDRANT

PIPE UNDERDRAINS		
STATION TO STATION	150 mm (TYPE H) (PERFORATED) (m)	DESCRIPTION
1+336 - 1+353	18.95	
PROJECT TOTAL	18.95	

RIPRAP (LIGHT STONE)				
STATION	OFFSET	RIPRAP (LIGHT STONE) (m ²)	GEOTEXTILE FILTER FABRIC (m ²)	DESCRIPTION
1+405.064	21.4 m RT.	25.23	25.23	
2+083.820	149.4 m RT.	21.05	21.05	
PROJECT TOTAL		46.28	46.28	

SIDEWALK CONSTRUCTION (AE)				
LOCATION	100 mm (m ²)	150 mm (SPECIAL) (m ²)	REMARKS	
1+423 - 1+731	686.3		2,000 m WIDTH INCLUDES SIDEWALK RAMPS EXCLUDES DRIVE ENTRANCE SIDEWALK	
1+430 - 1+973	1107.4			
1+751 - 2+187	836.0		2,000 m WIDTH INCLUDES SIDEWALK RAMPS EXCLUDES DRIVE ENTRANCE SIDEWALK	
2+198 - 2+614	828.9			
2+010 - 2+387	777.5		2,000 m WIDTH INCLUDES SIDEWALK RAMPS	
2+570 - 2+806	798.1		2,000 m WIDTH INCLUDES SIDEWALK RAMPS	
PROJECT TOTAL	5034.2			

(LOW STRENGTH) FLOWABLE FILL			
STATION	SIDE	QUANTITY (m ³)	REMARKS
1+416.3	RT.	7	2-0.45 m ² RCPHE
1+434.0	LT.&RT.	12	0.15 m ² RCPHE
1+615	LT.&RT.	8	450 mm RCP
1+990.0	LT.&RT.	11	254 mm SAN. SWR.
2+016.0	LT.&RT.	12	600 mm RCP
2+082.3	LT.&RT.	43	1200 mm RCP
2+099.9-2+199.6	LT.	95	750 mm RCP
2+199.6-2+246.8	LT.	50	900 mm RCP
2+325.0	LT.&RT.	13	600 mm RCP
2+670.8	LT.&RT.	11	600 mm RCP
PROJECT TOTAL		262	

SURFACING MATERIAL (AB-3)			
STATION	SIDE	100 mm (m ³)	REMARKS
1+741.08	LT.	18.70	
PROJECT TOTAL		18.70	

SURVEY MONUMENT (INSTALL ONLY)			
STATION	SIDE	QUANTITY EACH	REMARKS
2+000.000	§	1	
2+805.845	§	1	
PROJECT TOTAL		2	

EARTHWORK							
STATION TO STATION	COMMON EXCAVATION (m ³)	COMPACTION TYPE B (MR-90) (m ³)	ROCK EXCAVATION (m ³)	COMMON EXCAVATION (WASTED) (m ³)	ROCK EXCAVATION (WASTED) (m ³)	BORROW (m ³)	REMARKS
1+431.8 - 2+805.8	184.0	0.8	2427.9			2850.9	TEMPORARY WIDENING
1+331.581 - 2+805.845	17105.5		6307.5	2834	9221.1	2834	INCLUDES REMOVAL OF TEMPORARY WIDENING
PROJECT TOTAL	17289.5		8735.4	2834	9221.1	2834	

TABULATION OF SURFACING QUANTITIES					
STATION TO STATION	AGGREGATE SURFACE (BM-2) (TONS)	AGGREGATE BASE (BM-2) (TONS)	ASPHALTIC CEMENT (AC-10) (TONS)	TACK EMULSIFIED ASPHALT (SS-1H) (TONS)	REMARKS
MERIDIAN					
1+430.37 - 1+760.90	684.70	1958.24	143.71	1.60	180 mm (BM-2)
1+760.90 - 2+207.40	931.18	2663.17	195.44	2.18	180 mm (BM-2)
2+207.40 - 2+417.11	443.12	1267.32	93.00	1.04	180 mm (BM-2)
2+417.11 - 2+633.30	460.44	1316.87	96.64	1.08	180 mm (BM-2)
2+633.30 - 2+805.85	282.72	808.59	59.34	0.66	180 mm (BM-2)
MERIDIAN DR.	9.16	26.19	1.92	0.02	180 mm (BM-2)
42ND. ST. NO.	15.77	45.10	3.31	0.04	180 mm (BM-2)
BACHMAN DR.	17.12	48.96	3.59	0.04	180 mm (BM-2)
MILRO	10.02	28.66	2.10	0.02	180 mm (BM-2)
TIMBERCREEK	21.22	60.69	4.45	0.05	180 mm (BM-2)
KEYWEST	16.26	46.49	3.41	0.04	180 mm (BM-2)
FUTURE STREET	7.26	20.78	1.52	0.02	180 mm (BM-2)
PROJECT TOTAL	2898.97	8291.06	608.43	6.79	

RECAPITULATION OF ROAD QUANTITIES		
BID ITEM	QUANTITY	UNIT
CLEARING AND GRUBBING		LUMP SUM
REMOVAL OF EXISTING STRUCTURES		L.S.
COMMON EXCAVATION	17,290	m ³
COMPACTION OF EARTHWORK (TYPE B)(MR-90)	8,736	m ³
ROCK EXCAVATION	2,834	m ³
CRUSHED STONE SUBGRADE (100 mm)	805.1	m ²
CRUSHED STONE SUBGRADE (205 mm)	28,421.9	m ²
GEOGRID REINFORCEMENT (FOR BASE)	29,226.9	m ²
SIDEWALK CONSTRUCTION (100 mm)(AE)	5034	m ²
CONCRETE PAVEMENT (240 mm UNIFORM)(AE)(NRDJ)	625	m ²
CONCRETE PAVEMENT (200 mm UNIFORM)(AE)	764	m ²
CURB AND GUTTER, COMBINED (AE)	2,928.7	m
FLOWABLE FILL (LOW STRENGTH)	262	m ³
450 mm STORM SEWER (R.C.P.)	18.5	m
600 mm STORM SEWER (R.C.P.)	125.9	m
750 mm STORM SEWER (R.C.P.)	293.0	m
900 mm STORM SEWER (R.C.P.)	162.0	m
1200 mm STORM SEWER (R.C.P.)	95.8	m
0.15 m ² STORM SEWER (R.C.P.H.E.)	21.9	m
0.45 m ² STORM SEWER (R.C.P.H.E.)	56.0	m
INLET (CURB) (TYPE 1)(1.930 m)	7	EACH
INLET (CURB) (TYPE 1)(3.454 m)	3	EACH
INLET (CURB) (TYPE 1)(4.979 m)	1	EACH
INLET (CURB) (TYPE 1)(SPECIAL)	1	EACH
MANHOLE (REINFORCED CONCRETE)	1	EACH
MANHOLE (SPECIAL TYPE A)(1.524 DIA.)	1	EACH
OUTFALL STRUCTURE		LUMP SUM
PIPE UNDERDRAINS (TYPE H)(PERFORATED)	18.95	m
RIPRAP (LIGHT STONE)/GEOTEXTILE FILTER FABRIC	46.28	m ²
SURVEY MONUMENT (INSTALLATION ONLY)	2	EACH
TRAINEES (HIGHWAY CONSTRUCTION)(1)(SET)	1	hour
MOBILIZATION	1	LS
MOBILIZATION (DBE)	1	LS
FIELD OFFICE AND LAB (TYPE A)	1	EACH
NON-PARTICIPATING:		
REPLACE SANITARY SEWER FORCE MAIN		LUMP SUM
1200 mm STORM SEWER (R.C.P.)	61	m
END SECTION (1200 mm R.C.)	1	EACH
ADJUST VALVE BOX (WATER)	9	EACH
ADJUST FIRE HYDRANT	3	EACH
ADJUST MANHOLE WITH NEW RING AND COVER	1	EACH
305 mm WATER LINE RELOCATION	1	EACH

CONSTRUCTION STAKING BY LPA
 *FOR SANITARY SEWER SUMMARY OF QUANTITIES SEE SHT. NO. 31
 *FOR STORM SEWER SCHEDULE OF QUANTITIES SEE SHT. NO. 47
 *FOR SURFACING SUMMARY OF QUANTITIES SEE SHT. NO. 51
 *FOR TEMPORARY SEEDING SUMMARY OF QUANTITIES SEE SHT. NO. 52
 *FOR SEEDING SUMMARY OF QUANTITIES SEE SHT. NO. 57
 *FOR PLANTING MATERIAL SUMMARY OF QUANTITIES SEE SHT. NO. 61
 *FOR PAVEMENT MARKING SUMMARY OF QUANTITIES SEE SHT. NO. 72
 *FOR TRAFFIC CONTROL SUMMARY OF QUANTITIES SEE SHT. NO. 78

PLANT MIX BITUMINOUS MIXTURE (COMMERCIAL GRADE)		
STATION	BITUMINOUS MIXTURE (TONS)	DESCRIPTION
1+331.6 - 1+352.8	14.1	MEDIAN
4+966.2 - 4+975.1	25.9	42ND. ST. N. TRANSITION
1+431.8 - 2+185.7	921.5	TRAFFIC CONTROL PHASE II AND III
2+198.4 - 2+610.3	479.8	TRAFFIC CONTROL PHASE II AND III
2+624.8 - 2+805.8	163.5	TRAFFIC CONTROL PHASE II AND III
PROJECT TOTAL	1604.8	

2					
1	7-99	PAVEMENT WIDENING		WNJ	DCH
NO.	DATE	REVISIONS		BY	APP'D