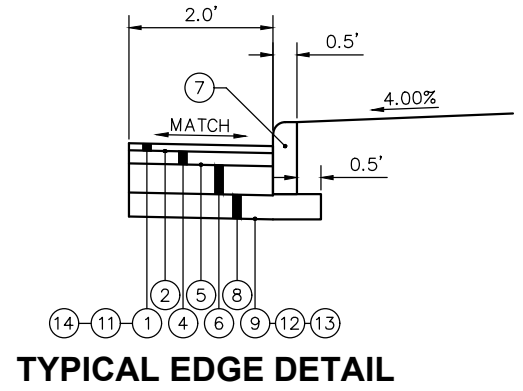
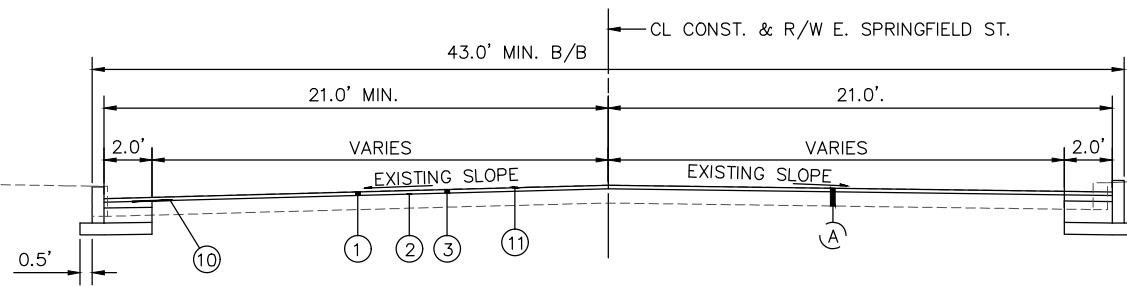


**NORMAL SECTION 1**

SPRINGFIELD STREET  
STA. 303+01.50 TO STA. 311+28.8 = 827.30'  
STA. 359+94.10 TO STA. 371+74.31 = 1180.21'

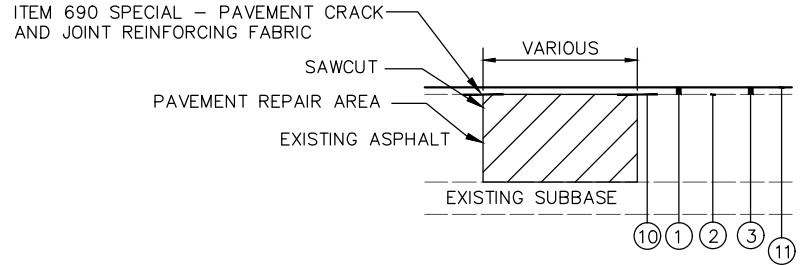


**TYPICAL EDGE DETAIL**



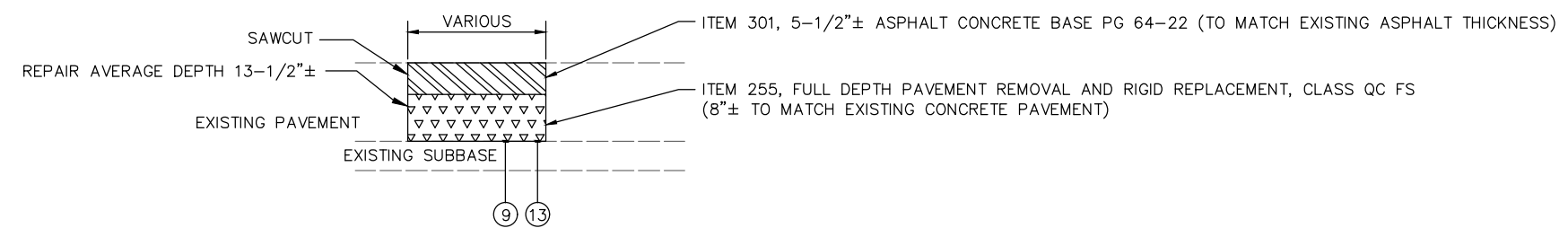
**NORMAL SECTION 2**

SPRINGFIELD STREET  
STA. 311+28.80 TO STA. 359+94.10 = 4865.30'



**PAVEMENT REPAIR AREA DETAIL DURING GRIND AND OVERLAY**

**PAVEMENT REPAIR COMPOSITION**



**PAVEMENT REPAIR AND PATCHING PLANED SURFACE NOTE**

CONTINGENCY QUANTITIES HAVE BEEN ADDED TO THE PLANS FOR THE FOLLOWING ITEMS:

EXISTING DETERIORATED PAVEMENT COMPOSITION SHALL BE REMOVED TO THE ENTIRE PAVEMENT DEPTH (AVERAGE 13.5"±) OR AS DIRECTED BY THE ENGINEER. THE FOLLOWING QUANTITIES FOR THIS WORK SHALL BE INCLUDED FOR AN ADDITIONAL 11,200 S.F. OF AREA:

ITEM 301, 5-1/2"± ASPHALT CONCRETE BASE PG 64-22 (2 EQUAL LIFTS)	190 C.Y.
ITEM 255, FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC FS	1244 S.Y.
ITEM 255, FULL DEPTH PAVEMENT SAWING	3500 FT.
ITEM 204, SUBGRADE COMPACTION	1244 S.Y.
ITEM 204, GRANULAR MATERIAL, TYPE B (AVERAGE 17" THICKNESS)	588 C.Y.
ITEM 204, EXCAVATION OF SUBGRADE	588 C.Y.
ITEM 204, GEOTEXTILE FABRIC	1244 S.Y.



ITEM 254 - PATCHING PLANED SURFACE (5% \* 42800 SY TOTAL PAVEMENT AREA = 2140 SY)

THESE ITEMS SHALL ONLY BE USED AS DIRECTED BY THE PROJECT ENGINEER AND SHALL BE NON-PERFORMED IF DEEMED UNNECESSARY.

THE ABOVE QUANTITIES HAVE BEEN BROUGHT OVER TO THE GENERAL SUMMARY.

**LEGEND**

- ① ITEM 826, 1-3/4" ASPHALT CONCRETE, SURFACE COURSE, TYPE 1 (448), PG 64-22 FIBER TYPE C, AS PER PLAN
- ② ITEM 407, NON-TRACKING TACK COAT (APPLIED AT A RATE OF 0.09 GAL/SY)
- ③ ITEM 254, 1-3/4"± PAVEMENT PLANING, ASPHALT CONCRETE, VARIABLE PAVEMENT PLANING, AS PER PLAN, AREAS TO BE CONSIDERED AS 1-3/4" PAVEMENT PLANING, ASPHALT CONCRETE FOR PAY
- ④ ITEM 441, 3-1/4" ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 2, (448) (IN 1 LIFT)
- ⑤ ITEM 407, TACK COAT (APPLIED AT THE RATE OF 0.06 GALLONS PER SQUARE YARD)
- ⑥ ITEM 613, 7-1/4" LOW STRENGTH MORTAR BACKFILL
- ⑦ ITEM 609, CURB, TYPE 6, AS PER PLAN
- ⑧ ITEM 304, 6" AGGREGATE BASE
- ⑨ ITEM 204, SUBGRADE COMPACTION
- ⑩ ITEM 690 SPECIAL - PAVEMENT CRACK AND JOINT REINFORCING FABRIC
- ⑪ ITEM 690 SPECIAL - ASPHALT REJUVENATING AGENT
- ⑫ ITEM 204, PROOF ROLLING
- ⑬ ITEM 204, GEOTEXTILE FABRIC
- ⑭ ITEM 254, PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (1/4")
- (A) EXISTING PAVEMENT, TO REMAIN (SEE SHEET 4 FOR EXISTING PAVEMENT COMPOSITION)

CONTRACTOR SHALL GRIND AND BUTT JOINT THROUGH ALL DRIVEWAYS AND INTERSECTING ROADWAYS WHERE GRINDING OCCURS. WHERE GRINDING DOES NOT OCCUR, CONTRACTOR TO FEATHER TO MEET EXISTING UNLESS OTHERWISE SHOWN.

## ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON NAVD 88 (ODOT VRS GEOID 12A).

## MODIFICATIONS

ANY MODIFICATIONS TO THE SPECIFICATIONS OR CHANGES TO THE WORK AS SHOWN ON THE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE ENGINEER.

## UNDERGROUND UTILITIES

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 ORC. EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATION ACCORDING TO THE BEST AVAILABLE DATA. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING THEM IN THE FIELD PRIOR TO CONSTRUCTION AND WILL BE RESPONSIBLE FOR ANY DAMAGE DONE TO THEM. CONTRACTOR TO CONTACT OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) 48 HOURS PRIOR TO CONSTRUCTION.

NON-MEMBERS MUST BE CALLED DIRECTLY.

## UTILITY OWNERSHIP

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

ELECTRIC – DAYTON POWER & LIGHT COMPANY  
1900 DRYDEN RD  
DAYTON, OH 45439  
ATTN: WILLIAM GOURLEY 937-331-4521

LIGHTING – MIAMI VALLEY LIGHTING, A DPL INC. SUBSIDIARY  
1065 WOODMAN DRIVE  
DAYTON, OHIO 45432  
ATTN: ABE FRANCIS 937-259-7191 ABE.FRANCIS@AES.COM

TELEPHONE – SBC/AT&T OF OHIO  
3233 WOODMAN DRIVE, ROOM 225  
DAYTON, OHIO 45420  
ATTN: JESSE WEAD 937-296-3894

TELEPHONE – SPRINT TELECOMMUNICATIONS  
11370 ENTERPRISE PARK DRIVE  
SHARONVILLE, OHIO 45241  
ATTN: JOE THOMAS 513.612.4204 JOSEPH.THOMAS@SPRINT.COM

STORM SEWER – CITY OF RIVERSIDE  
1791 HARSHMAN ROAD  
RIVERSIDE, OHIO 45424  
ATTN: MARK CARPENTER 937-233-1801

CABLE – CHARTER-SPECTRUM  
3691 TURNER ROAD  
DAYTON, OH 45415  
ATTN: JACOB HOUESHELL 937-405-3786

GAS – VECTREN CORP.  
6500 CLYO ROAD  
CENTERVILLE, OHIO 45459  
ATTN: PUBLIC PROJECT COORDINATOR 313-718-3639  
PUBLICPROJECT@VECTREN.COM

WATER AND SANITARY – MONTGOMERY COUNTY WATER AND SANITARY  
1850 SPAULDING ROAD  
KETTERING, OHIO 45432  
ATTN: EDWARD SCHLAACK 937-781-2632

AMERICAN WATER (OWNER OF WPAFB SANITARY AND WATER)  
WPAFB  
2281 SKYLINE DRIVE  
WRIGHT PATTERSON AIR FORCE BASE, OHIO  
ATTN: RANDOLPH FRIES 937-623-9786

OHIO UTILITIES PROTECTION SERVICE CALL 2 WORKING DAYS BEFORE YOU DIG TOLL FREE 800-362-2764

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS REQUIRED BY SECTION 153.64 O.R.C.

## EXISTING UTILITY CONFLICT NOTE

IT IS THE INTENT THAT ALL KNOWN CONFLICTING UTILITY POLES SHALL BE RELOCATED BY OTHERS PRIOR TO CONSTRUCTION.

## REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND BEFORE FINAL ACCEPTANCE BY THE ENGINEER, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR SHALL MAKE AN INSPECTION OF ALL EXISTING SEWER THAT MAY BE AFFECTED BY THE WORK AND ARE TO REMAIN IN SERVICE. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE ENGINEER.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE ENGINEER.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

## EXISTING DRAINAGE FACILITIES

ANY DRAINAGE CONDUIT CURRENTLY CONNECTED TO THE EXISTING STORM SEWER SHALL BE CONNECTED TO THE PROPOSED STORM SEWER. ANY DRAINAGE CONDUIT DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR TO A CONDITION EQUAL TO OR BETTER THAN ITS ORIGINAL CONDITION. ALL CONDUIT REMOVED, REPLACED AND/OR CONNECTED TO THE STORM SEWER SHALL BE NOTED ON THE RECORD DRAWINGS AND SHALL BE INSPECTED BY THE ENGINEER BEFORE IT IS COVERED.

A CONCRETE COLLAR SHALL BE PROVIDED WHERE PROPOSED STORM SEWER PIPE IS CONNECTED TO AN EXISTING PIPE. THE COST SHALL BE INCLUDED IN THE PRICE BID FOR THE NEW CONDUIT.

ALL FIELD OR STORM DRAINS WHICH ARE ENCOUNTERED DURING CONSTRUCTION SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS OR PLUGGED AS APPROVED AND DIRECTED BY THE ENGINEER. THE CITY WILL ASSIST IN ANY NECESSARY INVESTIGATION OR DYE TESTING PRIOR TO APPROVING THE PLUGGING OF A FIELD OR STORM CONDUIT. COST OF THE ITEMS ABOVE SHALL BE INCLUDED IN THE COST OF ITEM 611 STORM SEWERS.

THE LOCATION, TYPE, SIZE, AND GRADE OF THE NEW CONDUIT REQUIRED TO REPLACE OR EXTEND THE EXISTING DRAIN WILL BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION, AND PAYMENT SHALL BE MADE ON FINAL MEASUREMENTS AND INCLUDE ALL MATERIALS NECESSARY SUCH AS GRANULAR BEDDING, PROPER FITTINGS AND CONNECTIONS, AND PIPE.

THE FOLLOWING CONTINGENT ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLANS FOR THE WORK NOTED ABOVE:

ITEM 611	6" CONDUIT, TYPE B	50 FEET
ITEM 611	6" CONDUIT, TYPE C	50 FEET
ITEM 611	8" CONDUIT, TYPE B	50 FEET
ITEM 611	8" CONDUIT, TYPE C	50 FEET

## CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION, OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT ANY EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

## PROPERTY POINTS AND SURVEY MONUMENTS

CARE SHALL BE TAKEN BY THE CONTRACTOR TO SAFEGUARD ANY PROPERTY POINTS OR OTHER SURVEY REFERENCE MARKS ENCOUNTERED DURING CONSTRUCTION OF THIS PROJECT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AT HIS EXPENSE, TO RESET ANY PROPERTY POINT OR SURVEY MONUMENT WHICH IS DISTURBED AS A RESULT OF CONSTRUCTION OF THIS PROJECT. THE PROPERTY POINTS AND SURVEY MONUMENTS SHALL BE RESET UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL SURVEYOR.

PAYMENT FOR THIS ITEM SHALL BE INCIDENTAL TO THE OTHER ITEMS PAID FOR IN THIS PROJECT.

## MUD

THE TRACKING OR SPILLING OF MUD, DIRT, OR DEBRIS UPON CITY STREETS IS PROHIBITED, AND ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR.

## SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDING AREAS:

659, TOPSOIL	2140 CU. YD.
659, SEEDING AND MULCHING, CLASS 1	19279 SQ. YD.
659, REPAIR SEEDING AND MULCHING	964 SQ. YD.
659, INTER-SEEDING	964 SQ. YD.
659, COMMERCIAL FERTILIZER	2.7 TON
659, WATER	109 M. GAL.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

## NONRUBBER TIRE VEHICLES

NO NONRUBBER TIRE VEHICLES SHALL BE MOVED ON CITY STREETS. EXCEPTIONS MAY BE GRANTED BY THE ENGINEER WHERE SHORT DISTANCES AND SPECIAL CIRCUMSTANCES ARE INVOLVED. GRANTING OF EXCEPTIONS MUST BE IN WRITING AND ANY RESULTING DAMAGE MUST BE REPAIRED TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR SHALL USE EXTREME CARE WHEN OPERATING NONRUBBER TIRE VEHICLES ON STREETS OR DRIVEWAYS TO AVOID MARKING OR DAMAGING THE PAVEMENT. PROTECTION OF THE PAVEMENT FROM DAMAGE RESULTING FROM THE TRACKS OF NONRUBBER TIRE VEHICLES UTILIZED IN TRENCH EXCAVATION SHALL BE REQUIRED. A WOOD PLANK SYSTEM, USED TIRES, RUBBER MATS, OR OTHER MEANS AS APPROVED BY THE ENGINEER SHALL BE USED TO PROTECT THE PAVEMENT. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS ITEMS OF THE CONTRACT.

## CONSTRUCTION NOISE

IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, ANY POWER-OPERATED CONSTRUCTION-TYPE DEVICES SHALL NOT BE OPERATED BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM, UNLESS OTHERWISE SPECIFICALLY ALLOWED BY THESE CONTRACT PLANS. IN ADDITION, ANY SUCH DEVICE SHALL NOT BE OPERATED AT ANY TIME IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT, UNLESS OTHERWISE SPECIFICALLY ALLOWED BY THESE CONTRACT PLANS.

## WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS. PEDESTRIAN TRAFFIC SHALL BE MAINTAINED AT ALL TIMES.

## CONCRETE FIBERS

ALL CURB, DRIVEWAYS, WALKS, AND CURB RAMPS SHALL HAVE 3 LBS. OF 2.25" IN LENGTH FIBRILLATED MACROFIBERS PER CUBIC YARD. CONTRACTOR SHALL CONTACT THE FIBER MANUFACTURER'S SUPPLIER 48 HOURS PRIOR TO ORDERING THE FIRST BATCH OF CONCRETE FOR APPROPRIATE MIXING AND FINISHING PROCEDURES. FIBER REPRESENTATIVE SHALL BE ON SITE FOR THE FIRST POUR.

THE FOLLOWING PAY ITEMS WILL INCLUDE CONCRETE FIBERS:

ITEM 452 – NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1, AS PER PLAN  
ITEM 608 – 4" CONCRETE WALK, AS PER PLAN  
ITEM 608 – CURB RAMP, AS PER PLAN  
ITEM 609 – CURB, TYPE 6, AS PER PLAN  
ITEM 609 – COMBINATION CURB AND GUTTER, TYPE 2, AS PER PLAN  
ITEM 609 – 9" CONCRETE TRAFFIC ISLAND, AS PER PLAN

Removed SAWCUT PAVEMENT JOINTS note to remove any confusion since there is now a pay item for sawcutting under 255 FULL DEPTH PAVEMENT SAWING.

## ITEM 204, PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING. SEE PLAN SHEET 3 FOR ADDITIONAL INFORMATION.

ITEM 204 – PROOF ROLLING 4 HOURS.

## ITEM 204 SUBGRADE COMPACTION AND PROOF ROLLING

CONSTRUCT THE SUBGRADE AS FOLLOWS AND IN THE FOLLOWING SEQUENCE:

- SHAPE THE SUBGRADE TO WITHIN 0.2 FEET OF THE PLAN SUBGRADE ELEVATION.
- EXCAVATE AND REPLACE UNSUITABLE SUBGRADE BEFORE PROOF ROLLING. THE ENGINEER WILL IDENTIFY THE ACTUAL LIMITS OF EXCAVATION FOR UNSTABLE SUBGRADE BASED ON THE PROOF ROLLING RESULTS AND VISUAL OBSERVATIONS. UNSUITABLE SUBGRADE INCLUDES UNSUITABLE SOIL (A-4B, A-2-5, A-5, A-7-5, AND SOIL WITH A LIQUID LIMIT GREATER THAN 65) AND ANY COAL, SHALE, OR ROCK WHICH NEEDS TO BE REMOVED ACCORDING TO 204.05.

IF THERE IS UNSUITABLE SUBGRADE IN A SHALLOW FILL LOCATION, EXCAVATE AND REPLACE THE UNSUITABLE SUBGRADE BEFORE CONSTRUCTING THE SHALLOW FILL AND SHAPING THE SUBGRADE.

- COMPACT THE SUBGRADE ACCORDING TO 204.03.
- THE ENGINEER WILL IDENTIFY THE ACTUAL LIMITS OF EXCAVATION FOR UNSTABLE SUBGRADE BASED ON THE PROOF ROLLING RESULTS AND VISUAL OBSERVATIONS.

PROOF ROLL THE COMPACTED SUBGRADE ACCORDING TO 204.06.

- EXCAVATE UNSTABLE SUBGRADE AS DIRECTED BY THE ENGINEER AND STABILIZE BY REPLACING WITH THE SPECIFIED MATERIALS ACCORDING TO 204.07. EXCAVATIONS WILL EXTEND 18 INCHES BEYOND THE EDGE OF THE SURFACE OF THE PAVEMENT, PAVED SHOULDERS, OR PAVED MEDIANS.

- PROOF ROLL THE STABILIZED AREAS ACCORDING TO 204.06 TO VERIFY STABILITY.

- FINE GRADE THE SUBGRADE TO THE SPECIFIED GRADE.

THE QUANTITIES FOR EXCAVATING THE UNSUITABLE SUBGRADE AND UNSTABLE SUBGRADE ARE BOTH PAID UNDER ITEM 204-EXCAVATION OF SUBGRADE. ALL AREAS ALONG THE PROPOSED CURB MAY REQUIRE AN AVERAGE OF AT LEAST 12 INCHES OF UNSTABLE SOILS EXCAVATION WITH GRANULAR MATERIAL, TYPE B REPLACEMENT, INCLUDING GEOTEXTILE FABRIC AT THE BOTTOM OF THE EXCAVATION LIMITS. FOR ESTIMATED QUANTITY PURPOSES, AN AVERAGE OF 17" INCHES OF EXCAVATION WAS USED.

Table 6 - Recommended Areas of Subgrade Stabilization

Station	Estimated Average Undercut Depth for Width of Roadway (inches)	Evaluated Cause of Undercut*
302+50 to 309+00	18	High LL
312+00 to 315+00	12	High Moisture
315+00 to 317+50	24	High LL
317+50 to 332+50	12	High Moisture
332+50 to 336+00	24	High LL
336+00 to 354+00	12	High Moisture
354+00 to 356+50	36	High LL
356+50 to 360+00	18	High Moisture
360+00 to 362+50	36	A-4b Silt
356+00 to 373+35	18	High Moisture

3

CALCULATED  
BHB  
CHECKED  
MUT

GENERAL NOTES

MOT E. SPRINGFIELD ST.  
IMPROVEMENTS

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135





SHEET NUM.											PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.		
3		6		43	44	45	46		55	56	CALC	01/S<2/P V	EXT	TOTAL					
				2,236	854							3,090	254	01001	3,090	SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (1/4")	6	
											39,969	39,969	254	01001	39,969	SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (1-3/4)	6	
2,140												2,140	254	01600	2,140	SY	PATCHING PLANED SURFACE		
1,244				1,466	128							2,838	255	10110	2,838	SY	<del>FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC FS</del>		
3,500				13,570	4,221							21,291	255	20000	21,291	FT	FULL DEPTH PAVEMENT SAWING		
190				225	20							435	301	46000	435	CY	ASPHALT CONCRETE BASE, PG64-22		
				555	241	12	12					820	304	20000	820	CY	AGGREGATE BASE		
				133	52							185	407	10000	185	GAL	TACK COAT		
											3,872	3,872	407	20000	3,872	GAL	NON-TRACKING TACK COAT		
				202	77							279	441	50300	279	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)		
						27						27	452	13011	27	SY	9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN	5	
					217							217	452	14011	217	SY	10" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN	5	
				139	35							174	609	12001	174	FT	COMBINATION CURB AND GUTTER, TYPE 2, AS PER PLAN	5, 86	
				9,290	3,662							12,952	609	26001	12,952	FT	CURB, TYPE 6, AS PER PLAN	5, 86	
				23	49							72	609	58001	72	SY	9" CONCRETE TRAFFIC ISLAND, AS PER PLAN	5	
				444	171							615	613	41300	615	CY	LOW STRENGTH MORTAR BACKFILL (TYPE 2)		
		100		1,779	702							2,581	SPECIAL	69012050	2,581	SY	REINFORCED MESH FOR TRANSVERSE AND/OR LONGITUDINAL JOINTS AND CRACKS	6	
		LS										LS	SPECIAL	69098400	LS	SY	TESTING	6	
		1,865										1,865	SPECIAL	69098900	1,865	GAL	ASPHALT REJUVENATING AGENT	6	
				2	1							2,092	2,095	826	10041	2,095	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), FIBER TYPE C, AS PER PLAN	6
									56	50		106	625	00450	106	EACH	CONNECTION, FUSED PULL APART		
									6			6	625	00470	6	EACH	CONNECTION, UNFUSED BOLTED		
									28	4		32	625	10481	32	EACH	LIGHT POLE, DECORATIVE, AS PER PLAN	108	
										21		21	625	10500	21	EACH	LIGHT POLE, MISC.:MONOARM RISE LIGHT POLE (AT12B32.5)	108	
									26	2		28	625	14000	28	EACH	LIGHT POLE FOUNDATION, 24" X 6' DEEP		
										2		4	625	14001	4	EACH	LIGHT POLE FOUNDATION, 24" X 6' DEEP, AS PER PLAN	108	
										21		21	625	14100	21	EACH	LIGHT POLE FOUNDATION, 24" X 8' DEEP		
									9,864	24,345		34,209	625	23302	34,209	FT	NO. 6 AWG 2400 VOLT DISTRIBUTION CABLE		
									2,016	4,068		6,084	625	23400	6,084	FT	NO. 10 AWG POLE AND BRACKET CABLE		
									2,056	6,804		8,860	625	25408	8,860	FT	CONDUIT, 2", 725.051		
										103		103	625	25604	103	FT	CONDUIT, 4", 725.051		
									701	370		1,071	625	25909	1,071	FT	CONDUIT, JACKED OR DRILLED, 725.052, AS PER PLAN, 2"	88	
									62	143		205	625	25909	205	FT	CONDUIT, JACKED OR DRILLED, 725.052, AS PER PLAN, 3"	88	
										283		283	625	25909	283	FT	CONDUIT, JACKED OR DRILLED, 725.052, AS PER PLAN, 4"	88	
										21		21	625	26253	21	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN	108	
										28		32	625	27551	32	EACH	LUMINAIRE, DECORATIVE, AS PER PLAN (PHILLIPS HADCO RL32 LED OR APPROVED EQUAL)	108	
									2,246	6,804		9,050	625	29000	9,050	FT	TRENCH		
										2		5	625	30510	5	EACH	PULL BOX, 725.06, SIZE 4		
									29	27		56	625	32000	56	EACH	GROUND ROD		
										3		3	625	34001	3	EACH	POWER SERVICE, AS PER PLAN	108	
										473		473	632	69800	473	FT	SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG		

GENERAL SUMMARY

MOT E. SPRINGFIELD ST.  
IMPROVEMENTS

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SHEET NO.	REFERENCE NO.	STATION RANGE		TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	202	202	202	202	204	204	204	204	254	255	255	301	304	407	441	608	609	609	609	613	SPECIAL	826		
		PAVEMENT REMOVED	CURB REMOVED							CURB AND GUTTER REMOVED	REMOVAL MISC. CONCRETE BASE REMOVED	SUBGRADE COMPACTION	EXCAVATION OF SUBGRADE	GRANULAR MATERIAL, TYPE B	GEOTEXTILE FABRIC	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (1/4")	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC F5	FULL DEPTH PAVEMENT SAVING	ASPHALT CONCRETE BASE PG64-22	AGGREGATE BASE	TACK COAT	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	CURB RAMP, AS PER PLAN	COMBINATION CURB AND GUTTER, TYPE 2, AS PER PLAN	CURB, TYPE 6, AS PER PLAN	9" CONCRETE TRAFFIC ISLAND AS PER PLAN	LOW STRENGTH MORTAR BACKFILL (TYPE 2)	REINFORCED MESH FOR TRANSVERSE AND/OR LONGITUDINAL JOINTS AND CRACKS	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), FIBER TYPE C, AS PER PLAN	SY	FT	FT	FT
		TO				FT	FT	SY	SY	SY	FT	FT	FT	SY	SY	CY	CY	SY	SY	FT	SY	CY	GAL	CY	SF	FT	FT	FT	SY	CY	SY	CY	
59	P1	302+54.50		LT	19.23	2.00	4.27	5.10		5.10	4	18	5.10	8.77	4.38	4.38	8.77	5.10		28							22			1.02		0.25	
59-60	P2	303+47.94		LT	522.17	2.00	116.04	118.76		118.76	380		118.75	205.76	102.88	102.88	205.76	118.76		545							522			23.75	100.55		
59-64	P3	303+90.99		RT	2513.40	2.00	558.53	571.81		571.81	2467	50	571.81	984.98	465.14	465.14	984.98	571.81		2586						40	2479		114.36	477.04			
59	P4	305+52.50		RT	5.50	33.41	20.42	20.79						20.79	10.40	10.40	20.79			20.79	78	1.18											
60	P5	306+36.50		LT	6.80	27.89	21.07	20.75						20.75	10.38	10.38	20.75			20.75	69	3.17											
60-62	P6	309+41.42		LT	951.28	2.00	211.40	233.39		233.39	937	12	233.39	391.56	184.91	184.91	391.56	233.39		982						949			46.68	176.09			
60	P7	309+98.30		RT	4.30	21.13	10.10	10.14						10.14			10.14			10.14	51	1.55											
60	P8	310+27.80		LT	5.70	12.23	7.75	7.73						7.73			7.73			7.73	36	1.18											
61	P9	312+24.60		LT/RT	6.70	21.87	16.28	17.03						17.03	5.68	5.68	17.03			17.03	58	2.61											
61	P10	313+37.10		LT/RT	6.30	38.24	26.77	26.37						26.37	8.79	8.79	26.37			26.37	89	4.03											
61	P11	314+87.20		LT/RT	7.20	38.00	30.40	30.55						30.55	10.18	10.18	30.55			30.55	91	4.68											
61	P12	315+15.80		LT/RT	10.10	38.00	42.64	42.37						42.37	28.25	28.25	42.37			42.37	96	6.50											
62	P13	316+46.60		LT/RT	10.10	38.00	42.64	42.35						42.35	28.23	28.23	42.35			42.35	96	6.50											
62	P14	317+65.00		LT/RT	7.90	37.97	33.33	33.21						33.21	11.07	11.07	33.21			33.21	92	5.07											
62	P15	318+24.30		LT/RT	37.20	38.00	157.07	156.90						156.90	52.30	52.30	156.90			156.90	150	24.06											
62	P16	318+84.00		RT	9.50	17.83	18.82	18.87						18.87	6.29	6.29	18.87			18.87	55	2.89											
62	P17	320+42.70		RT	38.80	18.51	79.80	75.51						75.51	25.17	25.17	75.51			75.51	113	1.58											
63	P18	321+04.40		LT/RT	6.70	23.54	17.52	18.85						18.85	6.28	6.28	18.85			18.85	62	2.89											
63	P19	321+64.50		LT/RT	7.40	41.10	33.79	33.49						33.49	11.16	11.16	33.49			33.49	97	5.14											
63	P20	321+95.20		RT	8.10	18.19	16.37	16.32						16.32	5.44	5.44	16.32			16.32	53	2.50											
63	P21	322+46.04		LT	82.65	2.00	18.37	17.83		17.83				17.83	5.94	5.94	17.83	17.83			85				4.95						0.74		
63-64	P22	322+46.04		LT	667.42	2.00	148.32	152.89		152.89	669			152.89	264.39	88.13	88.13	264.39	152.89		693				37.87	9.17		13.76		669	30.58	124.14	
63	P23	323+15.60		LT	7.50	19.00	15.83	15.63						15.63	5.21	5.21	15.63			15.63	53	2.40											
63	P24	323+75.10		RT	8.70	19.00	18.37	18.73						18.73	6.24	6.24	18.73			18.73	56	2.87											
63	P25	324+05.80		LT	14.76	2.00	3.28	3.23		3.23				3.23	1.08	1.08	3.23			3.23	19				0.90						0.14		
63	P26	324+05.50		LT/RT	10.20	29.58	33.52	33.84						33.84	11.28	11.28	33.84			33.84	80	5.17											
64	P27	325+99.50		LT/RT	25.40	29.71	83.85	76.36						76.36	25.45	25.45	76.36			76.36	129	11.67											
64	P28	327+18.30		LT/RT	9.40	46.16	48.21	48.71						48.71	16.24	16.24	48.71			48.71	112	7.44											
64	P29	327+87.40		RT	9.60	18.83	20.09	19.98						19.98	6.66	6.66	19.98			19.98	57	3.05											
64	P30	328+33.40		LT/RT	6.00	48.00	32.00	32.38						32.38	10.79	10.79	32.38			32.38	108	4.95											
64	T11	328+90.03		RT	28.65	11.59	36.89	19.36		55.61				32.86	10.95	10.95	32.86	19.36			94			6.23	1.16		1.74	83.90	81	22.51	3.87	17.40	
64-69	P31	329+50.91		RT	2343.68	2.00	520.82	536.42		536.42	2262	106	536.42	914.75	431.98	431.98	914.75	536.42		2420						99	2270		108.03	447.40			
64-69	P32	329+70.29		LT	2296.71	2.00	510.38	577.12		577.12	2298			577.12	453.40	453.40	577.12			577.12	2355					2298		115.42	436.10				
64	P33	330+76.70		RT	6.90	18.38	14.09	14.20						14.20	4.73	4.73	14.20			14.20	51	2.18											
65	P34	330+76.70		RT	6.90	17.66	13.54	12.59						12.59	4.20	4.20	12.59			12.59	48	1.92											
65	P35	334+33.20		RT	17.80	7.47	14.77	14.78						14.78	9.85	9.85	14.78			14.78	61	2.26											
65	P36	335+02.50		LT/RT	8.90	38.00	37.58	37.40						37.40	24.93	24.93	37.40			37.40	94	4.71											
66	P37	336+55.10		LT/RT	6.80	38.00	28.71	28.87						28.87	9.62	9.62	28.87			28.87	90	4.41											
66	P38	338+38.20		LT/RT	7.30	38.00	30.82	30.70						30.70	10.23	10.23	30.70			30.70	91	4.69											
66	P39	338+67.70		LT/RT	8.30	38.00	35.04	35.32						35.32	11.77	11.77	35.32			35.32	93	5.40											
66	P40	339+26.80		LT/RT	9.00	38.00	38.00	38.04						38.04	12.68	12.68	38.04			38.04	94	5.81											
66	P41	340+19.40		RT	5.30	18.35	10.81	9.91						9.91	3.30	3.30	9.91			9.91	47	1.51											
66	P42	340+50.70		LT/RT	47.70	13.15	69.70	69.75						69.75	23.25	23.25	69.75			69.75	171	10.66											
67	P43	342+90.90		LT/RT	7.80	38.00	32.93	32.73						32.73	10.91	10.91	32.73			32.73	92	3.00											
67	P44	343+18.50		RT	5.70	19.17	12.14	12.16						12.16	4.05	4.05	12.16			12.16	50	1.86											
68	P45	346+29.20		LT/RT	6.90	20.32	15.58	15.69						15.69	5.23	5.23	15.69			15.69	55	2.40											
68	P46	346+59.40		LT/RT	7.70	20.37	17.43	17.58						17.58	5.86	5.86	17.58			17.58	56	2.69											
68	P47	346+63.80		LT	28.50	8.26	26.16	26.44						26.44	8.81	8.81	26.44			26.44	74	4.05											
68	P48	346+91.50		RT	7.10	10.28	8.11	8.11						8.11	2.70	2.70	8.11			8.11	35	1.24											
68	P49	347+21.80		RT	5.20	11.61	6.71	6.74						6.74	2.25	2.25	6.74			6.74	34	1.03											
68	P50	347+39.99		RT	18.81	12.40	25.92	25.35						25.35	8.45	8.45	25.35			25.35	69	3.87											
68	P51	347+94.90		LT	103.80	8.01																											



SHEET NO.	REFERENCE NO.	STATION RANGE		TYPICAL SECTION	SIDE	DISTANCE (D) FT	AVERAGE WIDTH (W) FT	SURFACE AREA (A) A=DxW/9 SY	CADD GENERATED AREA SY	202	202	202	202	202	204	204	204	204	254	255	255	301	304	407	441	452	608	609	609	609	613	SPECIAL	826
										PAVEMENT REMOVED SY	TRAFFIC ISLAND REMOVED SY	CURB REMOVED FT	CURB AND GUTTER REMOVED FT	REMOVAL MISC. CONCRETE BASE REMOVED SY	SUBGRADE COMPACTION SY	EXCAVATION OF SUBGRADE CY	GRANULAR MATERIAL, TYPE B CY	GEOTEXTILE FABRIC SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (1/4") SY	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS OC FS SY	FULL DEPTH PAVEMENT SAWING FT	ASPHALT CONCRETE BASE PG84-22 CY	AGGREGATE BASE CY	TACK COAT GAL	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448) CY	10" NON-REINFORCED CONCRETE PAVEMENT, CLASS OC 1P, AS PER PLAN SY	CURB RAMP, AS PER PLAN SF	COMBINATION CURB AND GUTTER, TYPE 2, AS PER PLAN FT	CURB, TYPE 6, AS PER PLAN FT	5" CONCRETE TRAFFIC ISLAND AS PER PLAN SY	LOW STRENGTH MORTAR BACKFILL (TYPE 2) CY	REINFORCED MESH FOR TRANSVERSE AND/OR LONGITUDINAL JOINTS AND CRACKS SY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), FIBER TYPE C, AS PER PLAN CY
			TO																														
69	P57	352+65.70	352+80.00		LT/RT	14.30	16.95	26.93	26.73					26.73	8.91	8.91	26.73		26.73	71.00	4.08												
69	P58	352+67.40	354+29.50		LT	162.10	14.00	252.16	36.00	252.19		94		252.19	63.00	21.00	21.00	63.00	36.00	162.00					216.19				162.00		7.20	30.06	
69	P59	352+95.20	353+68.30		LT	73.10	2.00	16.24	16.26	16.26				28.43	9.48	9.48	28.43	16.26	77.00									73.00		3.25		0.79	
69	T12	352+95.80	353+28.08		RT	32.28	2.00	7.17	22.49	22.49	54.20			22.49	38.32	12.77	12.77	38.32	22.49	108.00					103.84			95.00		4.50	19.90		
69-73	P60	353+94.51	371+18.19		RT	1723.68	2.00	383.04	406.02	406.02		1699	32.00	406.02	688.69	325.22	325.22	688.69	406.02	1785.00							35	1696.00		81.20	330.00		
69-70	P61	354+29.50	359+10.87		LT	481.37	2.00	106.97	111.38	111.38		488		111.38	192.71	192.71	192.71	192.71	111.38	505.00								488.00		22.28	93.52		
70	P62	357+87.70	357+96.90		RT	9.20	25.50	26.07	26.08					26.08	13.04	13.04	26.08		26.08	69.00	3.98												
70	P63	359+67.80	359+76.40		LT/RT	8.60	32.48	31.04	31.03					31.03	15.52	15.52	31.03		31.03	82.00	4.74												
70-72	P64	359+42.90	370+80.69		LT	1137.79	2.00	252.84	261.14	261.14		1148		261.14	452.47	213.67	213.67	452.47	261.14	1175.00								1148.00		52.23	217.22		
72	P65	366+65.10	366+73.80		RT	8.70	12.47	12.05	12.04					12.04	6.02	6.02	12.04		12.04	42.00	1.84												
72	P66	367+88.10	367+97.90		RT	9.80	6.80	7.40	7.53					7.53	3.77	3.77	7.53		7.53	42.00	1.15							4.63		5.37			
72	P67	368+45.30	368+52.00		RT	6.70	25.25	18.80	19.23					19.23	9.62	9.62	19.23		19.23	64.00	2.94												
72	P68	369+65.30	369+74.80		RT	9.50	4.00	4.22	4.44					4.44	2.22	2.22	4.44		4.44	39.00	0.68							6.08		5.19			
<b>SUBTOTALS</b>										1069.48	64.91	3429	32	1053.22	1590.70	833.94	833.94	1590.70	853.29	127.08	4221.00	19.41	240.64	51.20	76.80	216.19	103.84	35	3662.00	48.06	170.66	701.26	0.79
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>										1070	65	3429	32	1054	1591	834	834	1591	854	128	4221	20	241	52	77	217	104	35	3662	49	171	702	1

3

<b>PAVEMENT CALCULATION SUBSUMMARY</b>	<b>MOT E. SPRINGFIELD ST. IMPROVEMENTS</b>						
<table border="0" style="width: 100%;"> <tr> <td style="font-size: small;">CALCULATED</td> <td style="font-size: small;">BHB</td> </tr> <tr> <td style="font-size: small;">CHECKED</td> <td style="font-size: small;">MJT</td> </tr> </table>	CALCULATED	BHB	CHECKED	MJT	<table border="0" style="width: 100%;"> <tr> <td style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;">44</td> </tr> <tr> <td style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;">135</td> </tr> </table>	44	135
CALCULATED	BHB						
CHECKED	MJT						
44							
135							