

Roadway and Erosion Control

Item 209 – Linear Grading, As Per Plan

This item of work shall consist of grading along the outside edge of the paved shoulder to eliminate high spots and provide positive sheet flow off the pavement and shoulder into roadside ditches or drainage structures. This item is not intended to be used to excavate a uniform depth to place Item 617 – Compacted Aggregate, As Per Plan.

Any debris collected shall be removed and disposed of as specified in Section 105.16 & 105.17 of the Construction and Material Specifications. Payment for the above work shall be made at the unit bid price for Item 209, Station, Linear Grading, As Per Plan and shall include all labor, tools, equipment and materials necessary to perform this item of work.

The following estimated quantities have been carried to the General Summary.

Item 209 – Linear Grading, As Per Plan **114 STA**

Castings Adjusted to Grade, As Per Plan

All castings, within the asphalt overlay section, shall be adjusted to the finished roadway elevation by the Contractor. The time between adjusting the castings and resurfacing shall be kept to an absolute minimum. No adjusting rings shall be permitted.

The following estimated quantities have been carried to the General Summary.

Item 623 – Monument Box Adjusted to Grade, As Per Plan..... **3 Each**
 Item 611 – Catch Basin Adjusted to Grade, As Per Plan..... **7 Each**
 Item 611 – Manhole Adjusted to Grade, As Per Plan **22 Each**

Castings Reconstructed to Grade

The Contractor and Field Engineer shall field check all existing catch basins, manholes, or monument boxes located within the limits of the project. Any castings found that exhibits substantial deterioration and requires more work than is specified under “Castings Adjusted to Grade” shall be “Reconstructed to Grade”, as directed by the Engineer. If none are needed, these items are to be non-performed.

The following estimated quantities have been carried to the General Summary for use as directed by the Engineer:

Item 611 – Catch Basin Reconstructed to Grade **2 Each**
 Item 611 – Manhole Reconstructed to Grade..... **6 Each**

Item Special – Miscellaneous Metal

Existing castings may prove to be unsuitable for reuse, as determined by the Engineer. It shall be the Contractor’s responsibility to provide the castings of the required type, size, and strength (heavy duty) for the particular structure in question. All materials must meet Item 611 of the CMS and shall have the prior approval of the Engineer.

The Contractor is cautioned to use extreme care in the removal, storage, and replacement of all existing castings. Castings damaged by the negligence of the Contractor, as determined by the Engineer, shall be replaced with the proper new castings at the expense of the Contractor.

The Contractor shall not order materials until authorized by the Engineer, and if none are needed, the item shall be non-performed.

The following estimated quantity has been carried to the General Summary for use as directed by the Engineer:

Item Special – Miscellaneous Metal **1,000 Lbs**

Pavement

Profile and Alignment

Place the proposed pavement to follow the alignment of the existing pavement. Previous construction plans showing the original alignment are available for inspection at the ODOT District 12 office. Place the proposed asphalt concrete as shown on the typical sections. The intent of the plans is to maintain the existing profile.

Planing Requirements

The duration of time between planing the asphalt and placing the intermediate course shall be kept to a minimum. In no instance shall this time exceed 7 calendar days. The time limit shall begin on the first day of planing, and shall continue based on calendar days, minus any bad weather days, until completion of the asphalt concrete intermediate course. This is to ensure that the potential degradation of the exposed pavement due to traffic is kept to a minimum.

In the event that the time between exposing the existing pavement and placing the asphalt intermediate course exceeds 7 calendar days, liquidated damages as per 108.07 of the C&MS shall be assessed.

Asphalt Concrete Surface Course Sealing Requirements

In addition to the gutter sealing requirements specified on SCD BP-3.1 and in CMS 401.15, after completion of the surface course, the Contractor shall use a certified 702.01 PG binder to seal the following locations:

- All castings, including but not limited to: monuments, manholes, water valves, catch basins, curb inlets.
- Butt joints and feather joints including bridge approaches.
- Forward joint for driveway asphalt and trailing joint when butting to existing asphalt drive.
- Perimeter of all pavement repairs or other asphalt inlays when pavement repairs/inlays are not overlaid with an asphalt concrete surface course.
- All cold longitudinal joints between paved shoulders and guardrail asphalt.

The width of the sealer shall be 2 to 3 inches.

Any additional costs associated with the work identified in this note shall be included in the appropriate asphalt concrete surface course item of work.

Item 251 – Partial Depth Pavement Repair (441), As per Plan

This item shall be used to repair unsound, cold patch, or pop-out areas of longitudinal and transverse joints as directed by the Engineer. This work shall be performed after the planing operation. The depth of the repair shall be 3” below the top of the existing asphalt surface. The width of the repair shall be 12” centered over the existing joint.

Use replacement materials conforming to the requirements of Item 441, Type 2.

The following estimated quantity has been carried to the General Summary:

Item 251 – Partial Depth Pavement Repair..... **450 SY**

Item 253 – Pavement Repair, As Per Plan

This work item is for use as directed by the Engineer for the purpose of pavement repair. All labor and material necessary to perform this work and section 250 of the CMS shall be included for payment under Item 253.

Depth of pavement repair removal shall typically be 3” measured after the pavement has been planed. The depth of repair shall be as directed by the Engineer if unsound material is encountered after the removal of the 3”.

Use replacement materials conforming to the requirements of item 301.

The Following estimated quantity has been carried to the General Summary:

Item 253 – Pavement Repair, As Per Plan..... **175 CY**

Item 617 – Compacted Aggregate, As Per Plan

This item is a contingency that shall be used as directed by the Engineer to fill any remaining low areas after Item 209 – Linear Grading, As Per Plan, has been completed. Material shall be limited to reclaimed asphalt concrete pavement.

The actual depth used will vary depending upon existing conditions. For estimating purposes, an average depth of one inch (1.0”) at one foot width will be used. Water, if needed, shall be applied as per 617.05 and included for payment under Item 617 – Compacted Aggregate, As Per Plan.

Item 617 – Compacted Aggregate, As Per Plan **70 CY**

Item 254 – Pavement Planing, Asphalt Concrete, As Per Plan

This item shall be used to remove the existing asphalt overlay full width at an average depth of 2-1/4” as specified in the plans. Areas which have transverse wedges (butt joints) are to be removed in two passes as required for maintaining traffic. No additional payment shall be made for the second pass.

Item 441 – Asphalt Concrete Surface Course, Type 1, (446), As Per Plan, PG70-22M

The coarse virgin aggregate shall consist of a blend of 60% min. air cooled blast furnace slag (ACBFS) or Trap Rock from Ontario with limestone comprising the remaining percentage.

Use a PG 70-22M binder for this item.

Item 441 – Asphalt Concrete Surface Course, Type 1, (448), As Per Plan


The use of gravel for coarse virgin aggregate is prohibited.

Use a PG64-22 binder.



SHEET NUM.										PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
5-8	9-11	13	14	15						01/MPO/PV	02/S>2/PV						
ROADWAY																	
114										70	44	209	60201	114	STA	LINEAR GRADING, AS PER PLAN	6
300										300		608	10001	300	SF	4" CONCRETE WALK, AS PER PLAN	7
				760						760		608	52001	760	SF	CURB RAMP, AS PER PLAN	7
3										1	2	623	39501	3	EACH	MONUMENT BOX ADJUSTED TO GRADE, AS PER PLAN	6
				1						1		625	31506	1	EACH	PULL BOX REMOVED AND REPLACED	
EROSION CONTROL																	
										640	360	832	30000	1,000	EACH	EROSION CONTROL	
DRAINAGE																	
7										3	4	611	98631	7	EACH	CATCH BASIN ADJUSTED TO GRADE, AS PER PLAN	6
2										1	1	611	98634	2	EACH	CATCH BASIN RECONSTRUCTED TO GRADE	
22										16	6	611	99655	22	EACH	MANHOLE ADJUSTED TO GRADE, AS PER PLAN	6
6										4	2	611	99660	6	EACH	MANHOLE RECONSTRUCTED TO GRADE	
1,000										649	351	SPECIAL	61199820	1,000	LB	MISCELLANEOUS METAL	6
PAVEMENT																	
450										288	162	251	01001	450	SY	PARTIAL DEPTH PAVEMENT REPAIR (441), AS PER PLAN	6
450										288	162	252	01001	450	SY	FULL DEPTH RIGID PAVEMENT REMOVAL AND FLEXIBLE REPLACEMENT, AS PER PLAN	7
175										112	63	253	02001	175	CY	PAVEMENT REPAIR, AS PER PLAN	6
		26,266								16,869	9,397	254	01001	26,266	SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN, 2-1/4"	6
900										576	324	255	20000	900	FT	FULL DEPTH PAVEMENT SAWING	
		4,470								2,871	1,599	407	20000	4,470	GAL	NON-TRACKING TACK COAT	
		879								562	317	441	10101	879	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), AS PER PLAN, 1-1/4", PG-70-22M	6
		45								32	13	441	50101	45	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, PG64-22, 1.25"	6
		733								472	261	441	50200	733	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448), 1"	
70										43	27	617	10101	70	CY	COMPACTED AGGREGATE, AS PER PLAN	6
		2,525								1,478	1,047	875	10000	2,525	LB	LONGITUDINAL JOINT ADHESIVE	
TRAFFIC CONTROL																	
	300									300		630	97800	300	SF	SIGNING, MISC.:ADDITIONAL SIGNS, GROUND MOUNTED	10
			2.28							1.45	0.83	646	10010	2.28	MILE	EDGE LINE, 6", WHITE	
			0.06							0.06		646	10100	0.06	MILE	LANE LINE, 4"	
			1.23							0.42	0.81	646	10200	1.23	MILE	CENTER LINE, YELLOW	
			560							560		646	10300	560	FT	CHANNELIZING LINE, 8"	
			242							202	40	646	10400	242	FT	STOP LINE	
			495							495		646	10510	495	FT	CROSSWALK LINE, 12"	
			299							299		646	10600	299	FT	TRANSVERSE/DIAGONAL LINE	
			2							2		646	20110	2	EACH	SCHOOL SYMBOL MARKING, 96"	
			6							6		646	20300	6	EACH	LANE ARROW	
			40							20	20	646	20800	40	FT	YIELD LINE	
TRAFFIC SIGNALS																	
2										2		632	26501	2	EACH	DETECTOR LOOP, AS PER PLAN	8
MAINTENANCE OF TRAFFIC																	
	80									80		614	11110	80	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
	50									50		614	13001	50	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC, AS PER PLAN	9
	2									2		614	18601	2	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	10
	0.06									0.06		614	20110	0.06	MILE	WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT	
	0.06									0.06		614	20560	0.06	MILE	WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT	
	1.23									0.42	0.81	614	21100	1.23	MILE	WORK ZONE CENTER LINE, CLASS I, 642 PAINT	
	1.23									0.42	0.81	614	21550	1.23	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT	
	2.29									1.46	0.83	614	22110	2.29	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT	
	2.29									1.46	0.83	614	22360	2.29	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT	
	560									560		614	23210	560	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 642 PAINT	
	560									560		614	23690	560	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT	
	242									202	40	614	26200	242	FT	WORK ZONE STOP LINE, CLASS I, 642 PAINT	
	242									202	40	614	26610	242	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT	
	495									495		614	27050	495	FT	WORK ZONE CROSSWALK LINE, CLASS I, 12", 642 PAINT	
	495									495		614	27250	495	FT	WORK ZONE CROSSWALK LINE, CLASS III, 12", 642 PAINT	
	6									6		614	30200	6	EACH	WORK ZONE ARROW, CLASS I, 642 PAINT	
	6									6		614	30650	6	EACH	WORK ZONE ARROW, CLASS III, 642 PAINT	
INCIDENTALS																	
	LS									LS	LS	614	11000	LS		MAINTAINING TRAFFIC	
LS	LS									LS	LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
	LS									LS	LS	624	10000	LS		MOBILIZATION	

DESIGN AGENCY



DESIGNER
JDA

REVIEWER
SJT 08-20-21

PROJECT ID
112507

SHEET TOTAL
12 24