

**QUEEN BEE STEWARDSHIP  
MAINTENANCE ROADWORK PLAN-APPRAISAL ALLOWANCE**

Pg. 1 of 6

DATE: 7/7/2015

Road Number	Mile Post	Item Description	Season of Use	Unit	Quantity	Unit Allowance	Appraisal Allowance
<b>5241</b>			<b>S</b>				
	0.03-0.15	Shape road to crown or out slope. Clearing and grubbing road, and restoring ditches to match typical drawing as directed by the Forest Service.		Mile	0.12	\$ 2,700.00	\$ 324.00
		<b>FR 5241 Total Maintenance</b>					<b>\$ 324.00</b>
<b>5242</b>			<b>S</b>				
	0.02-0.24	Shape road to crown or out slope. Clearing and grubbing road, and restoring ditches to match typical drawing as directed by the Forest Service. Construct L turn around to the left at POE.		Mile	0.22	\$ 1,500.00	\$ 330.00
	0.045	Remove berm		LS	1	\$ 75.00	\$ 75.00
	0.07	Haul and place 15 C.Y. of pit run from North Jay Bird pit (19.5 C.Y. loose material) 50' L x 12' W x 8" D.		C.Y.	15	\$ 12.00	\$ 180.00
	0.20-0.22	Haul and place 48 C.Y. of pit run from North Jay Bird pit at 0.20 to MP 0.22 (62 C.Y. loose material) 100' L x 13' W x 12" D.		C.Y.	48	\$ 12.00	\$ 576.00
		<b>FR 5242 Total Maintenance</b>					<b>\$ 1,161.00</b>
<b>5242-A</b>			<b>S</b>				
	0.00-0.17	Shape road to crown or out slope. Clearing and grubbing road, to match typical drawing as directed by the Forest Service. Construct L turn around to the left at POE.		Mile	0.17	\$ 2,700.00	\$ 459.00
		<b>FR 5242-A Total Maintenance</b>					<b>\$ 459.00</b>

W=Winter, D=Dry Summer

Prepared By Mary T. Zelinski  
Civil Engineering Technician

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DATE: 7/7/2015

Road Number	Mile Post	Item Description	Season of Use	Unit	Quantity	Unit Allowance	Appraisal Allowance
<b>5245</b>			<b>S</b>				
	0.08-0.37	Shape road to crown or out slope. Clearing and grubbing road, to match typical drawing as directed by the Forest Service. Construct L turn around to the left at POE.		Mile	0.29	\$ 2,800.00	\$ 812.00
		<b>FR 5245 Total Maintenance</b>					<b>\$ 812.00</b>
<b>5245-A</b>			<b>S</b>				
	0.00- 0.33	Shape road to crown or out slope. Clearing and grubbing road and restoring ditches to match typical drawing as directed by the Forest Service. Construct L turn around to the right at POE.		Mile	0.33	\$ 3,000.00	\$ 990.00
	0.05	Lead off ditch to right 15'		Foot	15	\$ 1.50	\$ 22.50
	0.06-0.09	Unclassified borrow. Work includes hauling and placing 45 C.Y. (58.5 loose ) pit run borrow from North Jay Bird pit. 150'L x 12'W x 8"D		C.Y.	45	\$ 12.00	\$ 540.00
	0.08-0.09	Out slope road to the left to get water off the road					
	0.11	Unclassified borrow. Work includes hauling and placing 15 C.Y. (19.5 loose ) pit run borrow from North Jay Bird pit. 50'L x 12'W x 8"D		C.Y.	15	\$ 12.00	\$ 180.00
		<b>FR 5245-A Total Maintenance</b>					<b>\$ 1,732.50</b>

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DATE: 7/7/2015

Road Number	Mile Post	Item Description	Season of Use	Unit	Quantity	Unit Allowance	Appraisal Allowance
<b>5245-B</b>			<b>S</b>				
	0.00-0.13	Shape road to crown or out slope. Clearing and grubbing road and restoring ditches to match typical drawing as directed by the Forest Service. Construct L turn around to the left at POE.		Mile	0.13	\$ 3,200.00	\$ 416.00
	0.03	Remove berm		LS	1	\$ 75.00	\$ 75.00
		<b>FR 5245-B Total Maintenance</b>					<b>\$ 491.00</b>
<b>5246</b>			<b>S</b>				
	0.03-0.64	Shape road to crown or out slope. Clearing and grubbing road, and restoring ditches to match typical drawing as directed by the Forest Service. Construct turnaround at POE.		Mile	0.61	\$ 2,700.00	\$ 1,647.00
	0.09	Remove Berm		LS	1	\$ 75.00	\$ 75.00
	0.38-0.40	Construct 100' ditch left side of the road to the constructed 40' lead-off ditch to the left .		LS	1	\$ 175.00	\$ 175.00
	0.39-0.42	Haul and place 45 C.Y.of pit run from North Jay Bird pit at MP 0.39 (58.5 C.Y. loose material)150' L x 12' W x 8" D (Incorporate ditch material into road before adding pit run).		C.Y.	45	\$ 12.00	\$ 540.00
	0.00-1.02	<b>Appraisal allowance for 60C.Y. pit run gravel "during haul" spot placed as directed by the Forest Service, per T-8130 (78 C.Y. loose material)</b>		C.Y.	60	\$ 12.00	\$ 720.00
		<b>FR 5246 Total Maintenance</b>					<b>\$ 3,157.00</b>

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DATE: 7/7/2015

Road Number	Mile Post	Item Description	Season of Use	Unit	Quantity	Unit Allowance	Appraisal Allowance
<b>5246-A</b>			<b>S</b>				
	0.00-0.21	Shape road to crown or out slope. Clearing and grubbing road, and restoring ditches to match typical drawing as directed by the Forest Service. Construct L turnaround to the right at POE.		Mile	0.21	\$ 2,700.00	\$ 567.00
		<b>FR 5246-A Total Maintenance</b>					<b>\$ 567.00</b>
<b>5246-C</b>			<b>S</b>				
	0.00-0.19	Shape road to crown or out slope. Clearing and grubbing road, and restoring ditches to match typical drawing as directed by the Forest Service. Construct "T" turnaround to the at POE.		Mile	0.19	\$ 3,000.00	\$ 570.00
	0.01	Remove Berm		LS	1	\$ 75.00	\$ 75.00
		<b>FR 5246-C Total Maintenance</b>					<b>\$ 645.00</b>
<b>5250-A</b>			<b>DS</b>				
	0.00-0.17	Shape road to crown or out slope. Clearing and grubbing road, and restoring ditches to match typical drawing as directed by the Forest Service. Construct L turnaround to the left at POE.		Mile	0.17	\$ 3,000.00	\$ 510.00
	0.00-0.01	Furnish, haul and place 15 C.Y. crushed aggregate material to surface entrance. (19.5 C.Y. loose material)		C.Y.	15	\$ 25.00	\$ 375.00

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DATE: 7/7/2015

Road Number	Mile Post	Item Description	Season of Use	Unit	Quantity	Unit Allowance	Appraisal Allowance
<b>5250-A (cont.)</b>	0.08-0.10	Unclassified borrow. Work includes hauling and placing 30 C.Y. (39 C.Y. loose) pit run borrow from North Jay Bird Pit. (100' L x 12' W x 8" D)		C.Y.	30	\$ 12.00	\$ 360.00
	0.12-0.13	Unclassified borrow. Work includes hauling and placing 15 C.Y. (19.5 C.Y. loose) pit run borrow from North Jay Bird Pit. (50' L x 12' W x 8" D)		C.Y.	15	\$ 12.00	\$ 180.00
	0.17	Haul and place 15 CY (19.5 CY loose material) pit run from North Jay Bird Pit to surface turnaround.		C.Y.	15	\$ 12.00	\$ 180.00
		<b>FR 5250-A Total Maintenance</b>					<b>\$ 1,605.00</b>
<b>5250-B</b>			<b>S</b>				
	0.00-0.10	Shape road to crown or out slope. Clearing and grubbing road, and restoring ditches to match typical drawing as directed by the Forest Service. Construct L turnaround to the left at POE.		Mile	0.1	\$ 3,600.00	\$ 360.00
	0.00-0.01	Prepare culvert bed for pipe installation. Shape ditch to pipe inlet, outlet, & lower 12".		Each	1	\$ 150.00	\$ 150.00
	0.00-0.01	Furnish and install a 17" x13" x 34' corrugated metal pipe arch, one piece ( <b>Riveted 16 gauge corrugated metal</b> ).		Foot	34	\$ 18.00	\$ 612.00
	0.00-0.02	Local borrow. Excavate 30 C.Y. left side (0.00-0.02) and use as fill to cover pipe		C.Y.	30	\$ 5.00	\$ 150.00
	0.01-0.02	Haul and place 15 C.Y. of pit run from North Jay Bird pit at MP 0.01 to (19.5 C.Y. loose material). 50' L x 12' W x 8" D		C.Y.	15	\$ 12.00	\$ 180.00

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Road Number	Mile Post	Item Description	Season of Use	Unit	Quantity	Unit Allowance	Appraisal Allowance
5250-B (cont.)	0.00-0.01	Furnish, haul and place 15 C.Y. crushed aggregate material to surface entrance. (19.5 C.Y. loose material)		C.Y.	15	\$ 25.00	\$ 375.00
		<b>FR 5052-B Total Maintenance</b>					<b>\$ 1,827.00</b>
5261			S				
	0.00-0.16	Shape road to crown or out slope. Clearing and grubbing road, and restoring ditches to match typical drawing as directed by the Forest Service. Construct L turnaround to the left at POE.		Mile	0.16	\$ 3,200.00	\$ 512.00
	0.00-0.02	Minor road entrance realignment to the right.		LS	1	\$ 150.00	\$ 150.00
	0.00-0.01	Furnish, haul and place 15 C.Y. crushed aggregate material to surface entrance. (19.5 C.Y. loose material)		C.Y.	15	\$ 25.00	\$ 375.00
	0.01-0.02	Haul and place 15 C.Y. of pit run from North Jay Bird pit at MP 0.01 to (19.5 C.Y. loose material) 50' L x 12' W x 8" D		C.Y.	15	\$ 12.00	\$ 180.00
		<b>FR 5261 Total Maintenance</b>					<b>\$ 1,217.00</b>
		<b>Queen Bee Road Maintenance Grand Total</b>					<b>\$ 13,997.50</b>

## QUEEN BEE STEWARDSHIP

### ROAD MAINTENANCE PLAN/APPRaisal NOTES

- NOTE: All finished roadbeds shall be 12' as shown in the typical details for crowned roads with no ditches, 1' ditches and outsloped roads. Roads requiring ditch restoration shall be cleared and grubbed to the back of ditch line and re-graded to allow the ditch to drain.
- NOTE: Blading and shaping requires filling in existing ruts and placing a crown to conform to the typical detail for a crown with no ditches, or outsloped roads.
- NOTE: Additional lead-off ditches may be required at road segment locations to allow for proper drainage needs and are included under typical blading and shaping requirements. Locations for placement shall be determined by the Forest Service and are included in appraised allowance for clearing and shaping.
- NOTE: There may be underground utility lines in unknown locations on this project. Call **MISS DIG THREE** full working days before any work begins. Phone 1-800-482-7171.
- NOTE: During hauling operations safety signs shall be placed and hauling shall not commence until all signs have been put in place as directed by the Forest Service.
- NOTE: Riveted Metal Corrugated pipe shall have a **minimum of 1 foot of cover**, as show on typical drawing. **17" x 13" x 34' long pipe arch required, one piece culvert 34' long unless authorized by the Forest Service.**
- NOTE: There is **45 CY of 22-A crushed gravel** required for the entrances of FR's 5250-A, 5250-B, and 5261. The normal compaction factor of 130% computes to a **loose volume of 58.5 CY**. **There is no government source available for the 22-A crushed gravel.** Purchaser furnished material shall meet gradation requirements for the Michigan Department of State Highway Transportation-Designation 22-A. Compact the aggregate by operating spreading and hauling equipment over the full width of material.
- NOTE: There is **318 CY of pit run borrow** material required for the road maintenance segments throughout the contract area. **This includes 60 CY of pit run to be spot placed as directed on FR 5246 as recurring road maintenance.** The normal compaction factor of 130% for pit run computes to a **loose volume of 413 CY**. The material source for this project is the **North Jay Bird pit**, located at T46N, R39W, Section 30, *unless agreed otherwise by the Forest Service*. Some pit development may be required and is considered incidental to associated items.
- NOTE: There is approximately **30 CY of local excavation** identified for a road maintenance segment of FR 5250-B. Road work designating local excavation on this sale shall be built to conserve and redistribute topsoil to help prevent erosion after excavation has occurred.
- NOTE: High density polyethylene drainage pipes shall be dual walled and have a smooth interior. **Minimum cover over HDPE culverts shall be 1.5 feet**, as shown on typical drawing.