

8	ND.	M-1-988(02)000
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20. **REMOVAL OF EXISTING CONCRETE SURFACING, SIDEWALK & DRIVEWAY:** In areas where only a portion of the existing concrete surfacing or sidewalk is to be removed, the concrete (or sidewalk) shall be removed to an existing joint or sawed to a true vertical face as directed by the Engineer. At locations where the new sidewalk or driveway abutts the existing sidewalk (or other concrete surfacing) and the grades do not match, the Contractor shall remove and replace as much of the existing sidewalk (or other concrete surfacing) as deemed necessary by the Engineer to obtain a reasonably smooth profile. Removal of existing concrete sidewalk (or other concrete surfacing) and driveways shall be measured and paid for as "Removal of Concrete". 3/4" mastic board shall be used between the existing and new concrete in these areas.
21. **WASTE EXCAVATION DISPOSAL:** Old concrete (sidewalk, curb and gutter, curbs, concrete pavement, etc.) shall be disposed of at a site determined by the Contractor and approved by the Engineer. Cost of disposal shall be included in the bid for removal items.
22. **30" SLUICE GATE MANHOLE:** The price bid for a 30" sluice gate manhole shall include the cost of all labor and materials necessary to install a 30" x 30" sluice gate. This sluice gate shall be installed in a poured manhole as shown on the detail sheet. The sluice gate shall have a cast iron flatback frame with a circular opening, rising stem, finished cast iron seating faces, and be able to withstand the head noted on the sluice gate typical sections. The cost of all labor and materials necessary to construct the poured in place portion of the manhole, 30" x 30" sluice gate, appropriate lifting device, stem, stem guides, precast manhole cover and access cover shall be included in the price bid for "30" Sluice Gate Manhole". The cost of the 60" precast riser, placed above the poured in place portion of the manhole, shall be paid for as "Manhole Riser".

23. **60" SLUICE GATE MANHOLE:** The price bid for a 60" sluice gate manhole shall include the cost of all labor and materials necessary to install a 60" x 60" sluice gate. This sluice gate shall be installed in a poured manhole as shown on the detail sheet. The sluice gate shall have a cast iron flatback frame with a circular opening, rising stem, finished cast iron seating faces, and be able to withstand the head noted on the sluice gate typical sections. The cost of all labor and materials necessary to construct the poured in place portion of the manhole, 60" x 60" sluice gate, appropriate lifting device, stem, stem guides, precast manhole cover and access cover shall be included in the price bid for "60" Sluice Gate Manhole". The cost of the 84" precast riser, placed above the poured in place portion of the manhole, shall be paid for as "Manhole Riser".
24. **SPECIFIED DENSITY:** Compaction of the Hot Bituminous Pavement shall be in accordance with Sec. 406-4.8.2 of the Standard Specifications. The Hot Bituminous Pavement shall be compacted to 97 percent of the Marshall density determined in the field. The average of the sub-lot densities shall equal 97 percent or more, and no one sub-lot density shall be less than 95 percent.
25. **GRADE OF BITUMEN:** The grade of bitumen for Fog Coat is to be specified by the Engineer.
26. **NOTE DELETED**
27. **TREE REMOVAL:** When this work is performed, the entire tree, including stumps shall be removed in one on-going operation. If the Contractor wishes to remove the stumps separately, he may do so, provided that they are removed immediately after the tops are removed.

28. **PROJECT ENGINEER RESPONSIBILITY:**

(a) **USC & G Bench Mark**

As soon as it has been determined that a bench mark must be moved, consult your Construction Survey Manual (Sec. 150-4.9), for the proper steps needed to preserve the bench mark.

(b) **All section corners must be monumented and a corner recordation form must be filed with the County Register of Deeds. See Appendix G of the Preliminary Survey Manual for instruction on how to fill out the form.**

29. **Two hundred C.Y. of Aggr. Base Course, Cl. 5, has been provided to improve traffic conditions at locations determined by the Engineer. This material is to be used only if required as determined by the Engineer. The Engineer shall determine the amounts and locations requiring this material, if any.**
30. **CLASS 25 AGGREGATE:** Class 25 Aggregate shall have a maximum clay content of 3% and a maximum shale and soft rock content of 4%. Not less than 50% by weight of the particles retained on the No. 4 Sieve shall have at least one fractured face.
31. **FOG COAT:** Immediately after the blotter material is spread one complete pass of rolling shall be made with a self propelled pneumatic roller or other types as approved by the Engineer.
- Excess blotter material may have to be removed by sweeping from the roadway if so determined by the Engineer.
- Cost for rolling and sweeping shall be incidental to the price bid for the fog coat bitumen and blotter material items.