



WASHINGTON COUNTY
LAND DEVELOPMENT ENGINEERING

80 West Baltimore Street
Hagerstown, Maryland 21740-6003
Telephone: 240-313-2400
Fax: 240-313-2401
TTY/Hearing Impaired: 240-313-2430

**NOTICE OF REQUIRED INSPECTIONS
FOR CONSTRUCTION OF PUBLIC ROADS**

The following inspections are required to be performed by the Qualified Professional for the construction of any Public Road. Additional inspections may be needed based on professional engineering judgment. Each inspection is required at the start of each stage.

1. **PREPARATION OF SITE** - Prior to excavation, verify sediment and erosion control features are in place to prevent sediment inflow. Verify all flagging required in the area for sensitive area protection. Verify grading is accurately staked-out and re-staked as needed.
2. **EARTHWORK** - Verify clearing and grubbing and excavation in accordance with applicable sections of the MSHA standards and specifications. Verify removal of unsuitable material (topsoil, root mat etc.) at or below section.
3. **EMBANKMENT FILL PLACEMENT** - Verify backfill material conforms to MSHA specifications. Contact Washington County construction standards inspector prior to proof roll. Verify fill material placed in 8 inch maximum horizontal layers across the full width of the embankment. Verify an adequate crown maintained to provide drainage at all times. Verify compaction of each layer of fill. Verify protection of all utilities and structures during compaction process.
4. **SUBGRADE** - Verify subgrade compaction. Verify subgrade is proof rolled. Contact Washington County construction standards inspector prior to proof roll of subgrade. Verify bleeder ditches adequately maintained throughout construction.
5. **STONE AGGREGATE BASE PLACEMENT**- Verify that the base material uniformly spread without particle size segregation. Verify base material spread in equal layers. Verify that shoulders or berms not less than 2 ft wide are built up on each side of the base to the top elevation of each uncompacted layer unless the base is placed against concrete curbs or gutters. Verify base compaction.

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6. BITUMINOUS CONCRETE BASE PLACEMENT - Verify ambient air and surface temperature is at least 32° F and rising prior to placement. Verify that the surface of the stabilized aggregate base course maintained in a moist condition until the emulsified asphalt seal coat is applied. Verify stabilized aggregate base course allowed to cure for a period of seven days.
7. BINDER COURSE - Verify binder course is SHA SN or BI.
8. TACK COAT - Verify surface cleaned of all loose and foreign materials. Verify tack coat uniformly applied at a rate of 0.05 gal/yd².
9. SURFACE COURSE - Verify that HMA material placed on roadway surfaces when the ambient air and surface temperature is at least 40° F and rising for surface mixes. Verify HMA temperature a minimum of 225° F at the time of placement. Verify HMA compacted to an in place density of 92.0 to 97.0 percent of the maximum density immediately following placement. Verify in place compaction completed before the mixture cools below 185° F. Verify surface course thickness and lift placement.
10. CONCRETE CURB AND GUTTER CONSTRUCTION - Verify forms are thoroughly cleaned and coated with a form release compound each time they are used. Verify curb is finished, floated smooth and followed with a broom type textured finish. Verify spacing between joints is 10 ft. Verify full depth expansion joint using 1/2 in. preformed expansion joint filler. Verify only the joints in the gutter portion of the combination curb and gutter and 1 in. up the face of all joints and expansion joints of monolithic medians are sealed.
11. UTILITY MANHOLES - Verify that all utility manholes are at or below finished surface to no more than 1/2 inch.
12. HMA CURB CONSTRUCTION - Verify HMA curb base is clean, dry and stable, and tack coated.
13. GUARDRAIL - Verify guard rail material and location.
14. SUBGRADE DRAINS – Verify subgrade drains placed at all low spots at 25 foot intervals for 25 feet on either side of low spot and then at 100 foot intervals to within 125 feet of summit. Verify SRC #2 stone used for subgrade drains.
15. CLOSED STORM DRAIN SYSTEM CONSTRUCTION – Verify pipe length, diameter, material and condition before installation. Verify pipe is protruding through end wall. Verify bedding material. (remove rock and replace with 8 inch min. select backfill). Verify tamping of fill material under and around pipe. Verify sealing of lay holes and pipe joints. Verify proper

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- pipe connections. Verify backfill material free of large lumps, clods and rocks. Verify minimum cover over top of pipe.
16. CONCRETE CHANNELS - Verify maximum joint spacing. Verify backfill placement and compaction.
17. RIP RAP OUTFALL CHANNEL CONSTRUCTION - Verify ditch sides and bottom smooth and free of protruding objects. Verify line and grade of excavation. Verify geotextile is free of damage and placed with 2 foot overlapping adjacent edges. Verify stone gradation, size, type, and thickness. Verify backfill blends with existing ground.
18. CONCRETE SIDEWALKS - Verify forms are straight and free of warp, cleaned and coated with form release compound after each use. Verify subgrade moistened before concrete is poured. Verify joint placement. Verify expansion joint depth. Verify joint sealing. Verify concrete set a minimum of 12 hours prior to removal. Verify surface is floated and broom finished.

The Qualified Professional may request the presence of a County Construction Standards Inspector at least 24 hours in advance by calling 240-313-2400.