




June 14, 2024

CONSTRUCTION MEMORANDUM 24-08

TO: District Deputy Commissioners
District Construction Directors, Area Engineers, Project Engineers/Supervisors
District Technical Services Directors, District Testing Engineers
Division of Materials and Tests

FROM: Gregory G. Pankow, P.E., Chief Engineer of Construction 
Division of Construction Management and District Support

SUBJECT: Performance Graded Binder Specification changes.

The purpose of this memorandum is to highlight recent PG binder specification changes in 902.01(a) and subsequent changes to the Division 400 of the Standard Specifications (SS). These changes effectively substitute the asphalt binder from the Department's original PG specifications to the new MSCR grade requirements. It was determined that the change is a net benefit for the additional cost that could be incurred.

These changes have resulted in a recurring special provision, RSP, which can be found on the Department's website at: <https://www.in.gov/dot/div/contracts/standards/rsp/sep23/sep23.htm>. RSP 400-R-780 titled "MSCR Binder Specifications" and RSP 410-R-759 "QC/QA HMA – SMA Pavement" are effective for contracts let on or after 9/1/2024. Contracts that are paving under the 2024 Standard Specifications, but do not contain these changes, may elect to incorporate them.

If a Contractor elects to utilize RSP 400-R-780 and/or RSP 410-R-759 on a contract let prior to September 1, 2024 where it is not in the original contract documents, a change order will need to be generated in accordance with SS 109.05. The change order shall also include RSP 100-C-281.

For unit price increases due to this change, unit prices shall be submitted to and approved by Nathan Awwad, Asphalt Engineer, Division of Materials and Tests (nawwad@indot.IN.gov) prior to generating the change order.

An example of the pay items used in the change order is attached. Also, a chart comparing old PG grade pay items to the equivalent new MSCR grade pay items is attached for reference.

Questions should be directed to the Field Engineer assigned to your District.

GGP/ddh/nea

Attachments:

- 1. Example pay item replacement
- 2. Old pay item vs new pay item comparison chart

1. Example pay item replacement:

- A “64” will be replaced with a “58S”
- A “70” will be replaced with a “58H”
- A “76” will be replaced with a “58E”

Using the original contract quantities contained in the contract documents:

CLN Item Description	Unit Price	Original Quantity Amount
0026 QC/QA-HMA, 2, 64, SURFACE, 9.5 mm	\$65.00 TON	10,061.00000 \$653,965.00
0027 QC/QA-HMA, 2, 64, INTERMEDIATE, 19.0 mm	\$71.00 TON	741.00000 \$52,611.00

CLN 26 shall be replaced with a new pay item “QC/QA-HMA, 2, **58S**, SURFACE, 9.5 mm” at an agreed upon unit price and quantity of 10,061.00 tons.

CLN 27 shall be replaced with a new pay item “QC/QA-HMA, 2, **58S**, INTERMEDIATE, 19.0 mm” at an agreed upon unit price and quantity of 741.00 tons.

The original contract quantities for CLN 26 and CLN 27 shall be subtracted in the change order to balance out the new pay items.

Old PG grade pay items versus new MSCR grade pay items

SECTION	OLD PAY ITEM NUMBER	OLD DESCRIPTION (Superpave PG)	NEW DESCRIPTION (MSCR PG)	NEW PAY ITEM NUMBER	UNIT
401	401-07321	QC/QA-HMA, 2, 64, SURFACE, 9.5 mm	QC/QA-HMA, 2, 58S, SURFACE, 9.5 mm	401-000001	TON
401	401-07322	QC/QA-HMA, 3, 64, SURFACE, 9.5 mm	QC/QA-HMA, 3, 58S, SURFACE, 9.5 mm	401-000002	TON
401	401-07323	QC/QA-HMA, 4, 64, SURFACE, 9.5 mm	QC/QA-HMA, 4, 58S, SURFACE, 9.5 mm	401-000003	TON
401	401-07327	QC/QA-HMA, 2, 70, SURFACE, 9.5 mm	QC/QA-HMA, 2, 58H, SURFACE, 9.5 mm	401-000004	TON
401	401-07328	QC/QA-HMA, 3, 70, SURFACE, 9.5 mm	QC/QA-HMA, 3, 58H, SURFACE, 9.5 mm	401-000005	TON
401	401-07329	QC/QA-HMA, 4, 70, SURFACE, 9.5 mm	QC/QA-HMA, 4, 58H, SURFACE, 9.5 mm	401-000006	TON
401	401-07333	QC/QA-HMA, 2, 76, SURFACE, 9.5 mm	QC/QA-HMA, 2, 58E, SURFACE, 9.5 mm	401-000007	TON
401	401-07334	QC/QA-HMA, 3, 76, SURFACE, 9.5 mm	QC/QA-HMA, 3, 58E, SURFACE, 9.5 mm	401-000008	TON
401	401-07335	QC/QA-HMA, 4, 76, SURFACE, 9.5 mm	QC/QA-HMA, 4, 58E, SURFACE, 9.5 mm	401-000009	TON
401	401-07339	QC/QA-HMA, 2, 64, SURFACE, 12.5 mm	QC/QA-HMA, 2, 58S, SURFACE, 12.5 mm	401-000010	TON
401	401-07340	QC/QA-HMA, 3, 64, SURFACE, 12.5 mm	QC/QA-HMA, 3, 58S, SURFACE, 12.5 mm	401-000011	TON
401	401-07342	QC/QA-HMA, 4, 64, SURFACE, 12.5 mm	QC/QA-HMA, 4, 58S, SURFACE, 12.5 mm	401-000012	TON
401	401-07345	QC/QA-HMA, 2, 70, SURFACE, 12.5 mm	QC/QA-HMA, 2, 58H, SURFACE, 12.5 mm	401-000013	TON
401	401-07347	QC/QA-HMA, 3, 70, SURFACE, 12.5 mm	QC/QA-HMA, 3, 58H, SURFACE, 12.5 mm	401-000014	TON
401	401-07348	QC/QA-HMA, 4, 70, SURFACE, 12.5 mm	QC/QA-HMA, 4, 58H, SURFACE, 12.5 mm	401-000015	TON
401	401-07351	QC/QA-HMA, 2, 76, SURFACE, 12.5 mm	QC/QA-HMA, 2, 58E, SURFACE, 12.5 mm	401-000016	TON
401	401-07352	QC/QA-HMA, 3, 76, SURFACE, 12.5 mm	QC/QA-HMA, 3, 58E, SURFACE, 12.5 mm	401-000017	TON
401	401-07353	QC/QA-HMA, 4, 76, SURFACE, 12.5 mm	QC/QA-HMA, 4, 58E, SURFACE, 12.5 mm	401-000018	TON
401	401-07356	QC/QA-HMA, 2, 64, INTERMEDIATE, 9.5 mm	QC/QA-HMA, 2, 58S, INTERMEDIATE, 9.5 mm	401-000019	TON
401	401-07357	QC/QA-HMA, 3, 64, INTERMEDIATE, 9.5 mm	QC/QA-HMA, 3, 58S, INTERMEDIATE, 9.5 mm	401-000020	TON
401	401-07358	QC/QA-HMA, 4, 64, INTERMEDIATE, 9.5 mm	QC/QA-HMA, 4, 58S, INTERMEDIATE, 9.5 mm	401-000021	TON
401	401-07361	QC/QA-HMA, 2, 70, INTERMEDIATE, 9.5 mm	QC/QA-HMA, 2, 58H, INTERMEDIATE, 9.5 mm	401-000022	TON
401	401-07362	QC/QA-HMA, 3, 70, INTERMEDIATE, 9.5 mm	QC/QA-HMA, 3, 58H, INTERMEDIATE, 9.5 mm	401-000023	TON
401	401-07363	QC/QA-HMA, 4, 70, INTERMEDIATE, 9.5 mm	QC/QA-HMA, 4, 58H, INTERMEDIATE, 9.5 mm	401-000024	TON
401	401-07366	QC/QA-HMA, 2, 76, INTERMEDIATE, 9.5 mm	QC/QA-HMA, 2, 58E, INTERMEDIATE, 9.5 mm	401-000025	TON
401	401-07367	QC/QA-HMA, 3, 76, INTERMEDIATE, 9.5 mm	QC/QA-HMA, 3, 58E, INTERMEDIATE, 9.5 mm	401-000026	TON
401	401-07368	QC/QA-HMA, 4, 76, INTERMEDIATE, 9.5 mm	QC/QA-HMA, 4, 58E, INTERMEDIATE, 9.5 mm	401-000027	TON
401	401-07371	QC/QA-HMA, 2, 64, INTERMEDIATE, 12.5 mm	QC/QA-HMA, 2, 58S, INTERMEDIATE, 12.5 mm	401-000028	TON
401	401-07372	QC/QA-HMA, 3, 64, INTERMEDIATE, 12.5 mm	QC/QA-HMA, 3, 58S, INTERMEDIATE, 12.5 mm	401-000029	TON
401	401-07373	QC/QA-HMA, 4, 64, INTERMEDIATE, 12.5 mm	QC/QA-HMA, 4, 58S, INTERMEDIATE, 12.5 mm	401-000030	TON
401	401-07378	QC/QA-HMA, 2, 70, INTERMEDIATE, 12.5 mm	QC/QA-HMA, 2, 58H, INTERMEDIATE, 12.5 mm	401-000031	TON
401	401-07379	QC/QA-HMA, 3, 70, INTERMEDIATE, 12.5 mm	QC/QA-HMA, 3, 58H, INTERMEDIATE, 12.5 mm	401-000032	TON
401	401-07380	QC/QA-HMA, 4, 70, INTERMEDIATE, 12.5 mm	QC/QA-HMA, 4, 58H, INTERMEDIATE, 12.5 mm	401-000033	TON

401	401-07384	QC/QA-HMA, 2, 76, INTERMEDIATE, 12.5 mm	QC/QA-HMA, 2, 58E, INTERMEDIATE, 12.5 mm	401-000034	TON
401	401-07385	QC/QA-HMA, 3, 76, INTERMEDIATE, 12.5 mm	QC/QA-HMA, 3, 58E, INTERMEDIATE, 12.5 mm	401-000035	TON
401	401-07387	QC/QA-HMA, 4, 76, INTERMEDIATE, 12.5 mm	QC/QA-HMA, 4, 58E, INTERMEDIATE, 12.5 mm	401-000036	TON
401	401-07390	QC/QA-HMA, 2, 64, INTERMEDIATE, 19.0 mm	QC/QA-HMA, 2, 58S, INTERMEDIATE, 19.0 mm	401-000037	TON
401	401-07392	QC/QA-HMA, 3, 64, INTERMEDIATE, 19.0 mm	QC/QA-HMA, 3, 58S, INTERMEDIATE, 19.0 mm	401-000038	TON
401	401-07393	QC/QA-HMA, 4, 64, INTERMEDIATE, 19.0 mm	QC/QA-HMA, 4, 58S, INTERMEDIATE, 19.0 mm	401-000039	TON
401	401-07397	QC/QA-HMA, 2, 70, INTERMEDIATE, 19.0 mm	QC/QA-HMA, 2, 58H, INTERMEDIATE, 19.0 mm	401-000040	TON
401	401-07398	QC/QA-HMA, 3, 70, INTERMEDIATE, 19.0 mm	QC/QA-HMA, 3, 58H, INTERMEDIATE, 19.0 mm	401-000041	TON
401	401-07399	QC/QA-HMA, 4, 70, INTERMEDIATE, 19.0 mm	QC/QA-HMA, 4, 58H, INTERMEDIATE, 19.0 mm	401-000042	TON
401	401-07402	QC/QA-HMA, 2, 76, INTERMEDIATE, 19.0 mm	QC/QA-HMA, 2, 58E, INTERMEDIATE, 19.0 mm	401-000043	TON
401	401-07403	QC/QA-HMA, 3, 76, INTERMEDIATE, 19.0 mm	QC/QA-HMA, 3, 58E, INTERMEDIATE, 19.0 mm	401-000044	TON
401	401-07404	QC/QA-HMA, 4, 76, INTERMEDIATE, 19.0 mm	QC/QA-HMA, 4, 58E, INTERMEDIATE, 19.0 mm	401-000045	TON
401	401-07407	QC/QA-HMA, 2, 64, BASE, 25.0 mm	QC/QA-HMA, 2, 58S, BASE, 25.0 mm	401-000046	TON
401	401-07408	QC/QA-HMA, 3, 64, BASE, 25.0 mm	QC/QA-HMA, 3, 58S, BASE, 25.0 mm	401-000047	TON
401	401-07409	QC/QA-HMA, 4, 64, BASE, 25.0 mm	QC/QA-HMA, 4, 58S, BASE, 25.0 mm	401-000048	TON
401	401-07412	QC/QA-HMA, 2, 70, BASE, 25.0 mm	QC/QA-HMA, 2, 58H, BASE, 25.0 mm	401-000049	TON
401	401-07413	QC/QA-HMA, 3, 70, BASE, 25.0 mm	QC/QA-HMA, 3, 58H, BASE, 25.0 mm	401-000050	TON
401	401-07414	QC/QA-HMA, 4, 70, BASE, 25.0 mm	QC/QA-HMA, 4, 58H, BASE, 25.0 mm	401-000051	TON
401	401-07423	QC/QA-HMA, 2, 64, BASE, 19.0 mm	QC/QA-HMA, 2, 58S, BASE, 19.0 mm	401-000052	TON
401	401-07424	QC/QA-HMA, 3, 64, BASE, 19.0 mm	QC/QA-HMA, 3, 58S, BASE, 19.0 mm	401-000053	TON
401	401-07427	QC/QA-HMA, 2, 70, BASE, 19.0 mm	QC/QA-HMA, 2, 58H, BASE, 19.0 mm	401-000054	TON
401	401-07428	QC/QA-HMA, 3, 70, BASE, 19.0 mm	QC/QA-HMA, 3, 58H, BASE, 19.0 mm	401-000055	TON
401	401-08364	QC/QA-HMA, 4, 64, BASE, 19.0 mm	QC/QA-HMA, 4, 58S, BASE, 19.0 mm	401-000056	TON
401	401-08366	QC/QA-HMA, 4, 70, BASE, 19.0 mm	QC/QA-HMA, 4, 58H, BASE, 19.0 mm	401-000057	TON
401	401-09717	QC/QA-HMA, 3, 64, SURFACE, 4.75 mm	QC/QA-HMA, 3, 58S, SURFACE, 4.75 mm	401-000058	TON
401	401-09941	QC/QA-HMA, 3, 70, SURFACE, 4.75 mm	QC/QA-HMA, 3, 58H, SURFACE, 4.75 mm	401-000059	TON
401	401-09949	QC/QA-HMA, 2, 70, SURFACE, 4.75 mm	QC/QA-HMA, 2, 58H, SURFACE, 4.75 mm	401-000060	TON
401	401-09970	QC/QA-HMA, 2, 64, SURFACE, 4.75 mm	QC/QA-HMA, 2, 58S, SURFACE, 4.75 mm	401-000061	TON
401	401-11787	QC/QA-HMA, 3, 76, INTERMEDIATE, OG, 19.0 mm	QC/QA-HMA, 3, 58E, INTERMEDIATE, OG, 19.0 mm	401-000062	TON
401	401-11897	QC/QA-HMA, 2, 64, INTERMEDIATE, 25.0 mm	QC/QA-HMA, 2, 58S, INTERMEDIATE, 25.0 mm	401-000063	TON
401	401-11915	QC/QA-HMA, 4, 76, SURFACE, 4.75 mm	QC/QA-HMA, 4, 58E, SURFACE, 4.75 mm	401-000064	TON
401	401-11966	QC/QA-HMA, 3, 76, SURFACE, 4.75 mm	QC/QA-HMA, 3, 58E, SURFACE, 4.75 mm	401-000065	TON
401	401-11971	QC/QA-HMA, 4, 70, SURFACE, 4.75 mm	QC/QA-HMA, 4, 58H, SURFACE, 4.75 mm	401-000066	TON
401	401-12137	QC/QA-HMA, 4, 76, INTERMEDIATE, OG, 19.0 mm	QC/QA-HMA, 4, 58E, INTERMEDIATE, OG, 19.0 mm	401-000067	TON
401	401-12138	QC/QA-HMA, 4, 76, INTERMEDIATE, OG, 25.0 mm	QC/QA-HMA, 4, 58E, INTERMEDIATE, OG, 25.0 mm	401-000068	TON

401	401-12139	QC/QA-HMA, 4, 76, BASE, OG, 19.0 mm	QC/QA-HMA, 4, 58E, BASE, OG, 19.0 mm	401-000069	TON
401	401-12141	QC/QA-HMA, 4, 76, BASE, OG, 25.0 mm	QC/QA-HMA, 4, 58E, BASE, OG, 25.0 mm	401-000070	TON
401	401-12267	QC/QA-HMA, 4, 64, BASE, OG, 19.0 MM	QC/QA-HMA, 4, 58S, BASE, OG, 19.0 mm	401-000071	TON
401	401-12495	QC/QA-HMA 4, 76, INTERMEDIATE, OG, 9.5 mm	QC/QA-HMA 4, 58E, INTERMEDIATE, OG, 9.5 mm	401-000072	TON
410	410-09530	QC/QA-HMA, 4, 76, SURFACE, 9.5 mm - SMA	QC/QA-HMA, 4, 58E, SURFACE, 9.5 mm - SMA	410-000073	TON
410	410-09877	QC/QA-HMA, 4, 70, SURFACE, 9.5 mm - SMA	DELETED, Use 410-000073		TON
410	410-10128	QC/QA-HMA, 3, 76, SURFACE, 9.5 mm - SMA	DELETED, Use 410-000073		TON
410	410-11777	QC/QA-HMA, 4, 76, SURFACE, 12.5 mm - SMA	QC/QA-HMA, 4, 58E, SURFACE, 12.5 mm - SMA	410-000074	TON
410	410-11935	QC/QA-HMA, 3, 70, SURFACE, 9.5 mm - SMA	DELETED, Use 410-000073		TON
410	410-12320	QC/QA-HMA, 3, 76, SURFACE, 12.5 mm - SMA	DELETED, Use 410-000074		TON
410	410-12333	QC/QA-HMA, 3, 70, SURFACE, 12.5 mm - SMA	DELETED, Use 410-000074		TON
410	410-12485	QC/QA-HMA, 4, 76, INTERMEDIATE, 12.5 mm - SMA	QC/QA-HMA, 4, 58E, INTERMEDIATE, 12.5 mm - SMA	410-000075	TON
410	410-12672	QC/QA-HMA, 2, 70, SURFACE, 9.5 mm - SMA	DELETED, Use 410-000073		TON