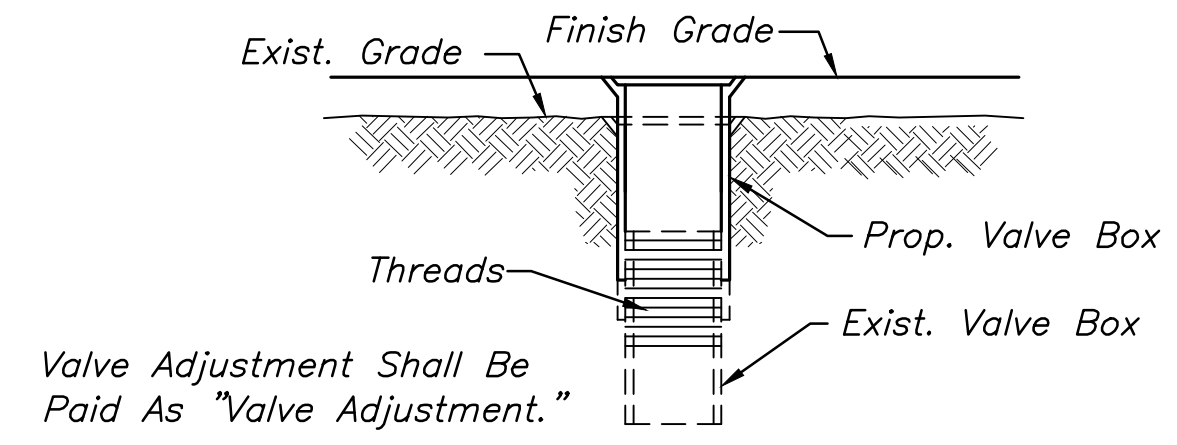
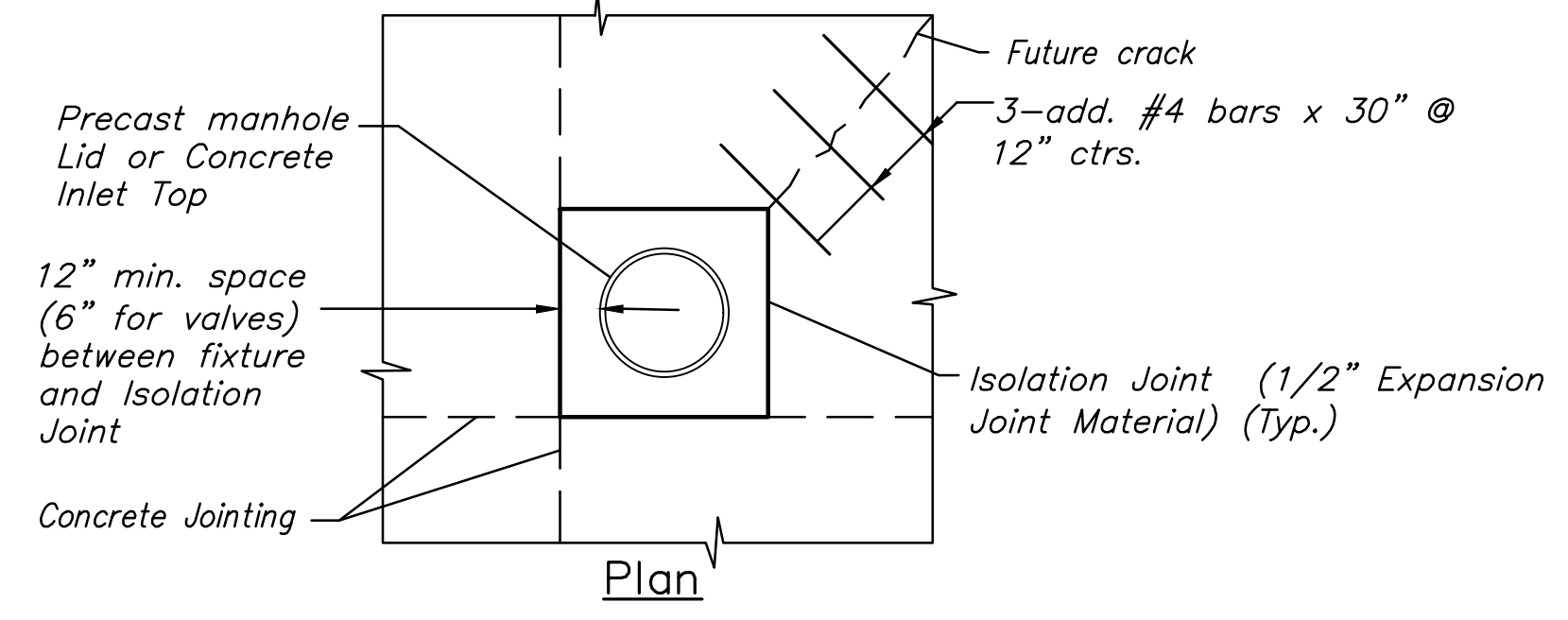
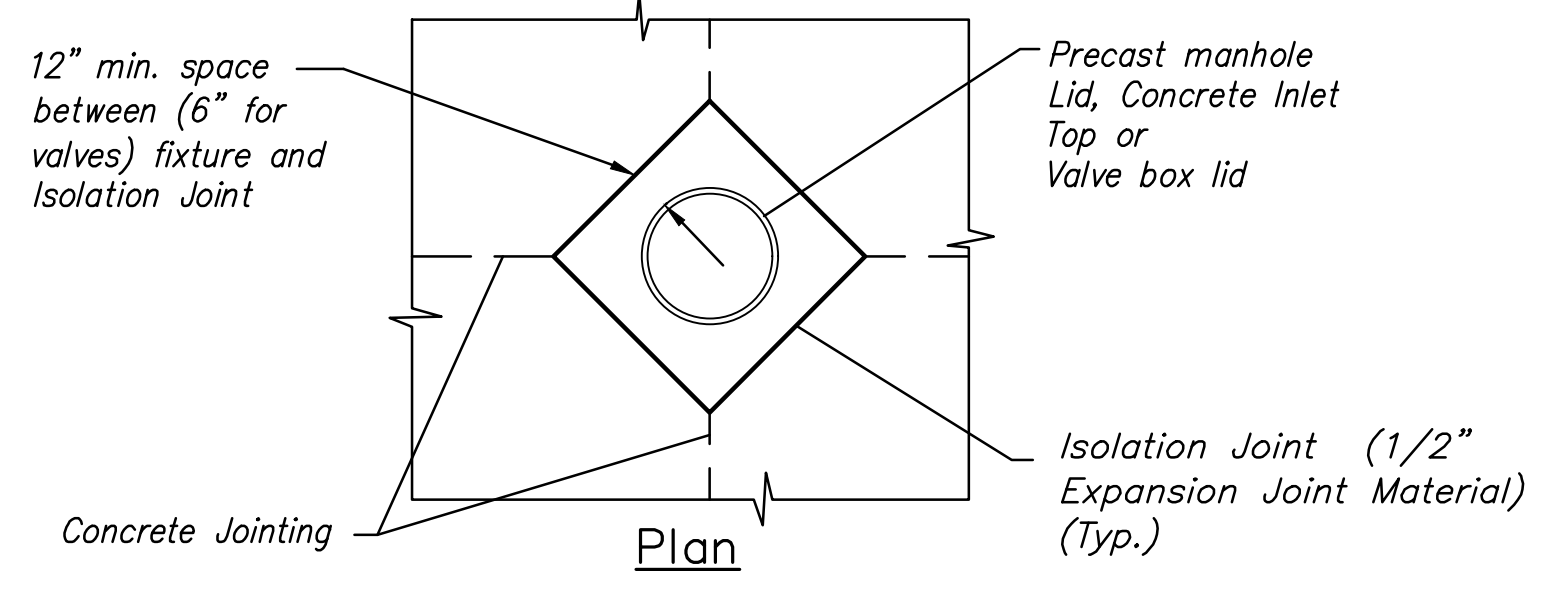


STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0662-01	2019	85	194

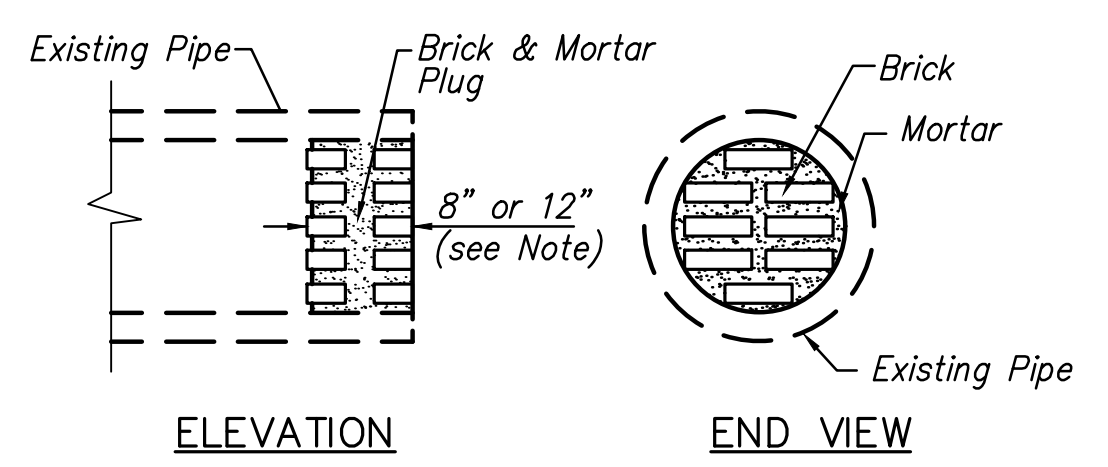


WATER VALVE BOX ADJUSTMENT DETAIL



TYPICAL UTILITY BOX-OUT DETAILS

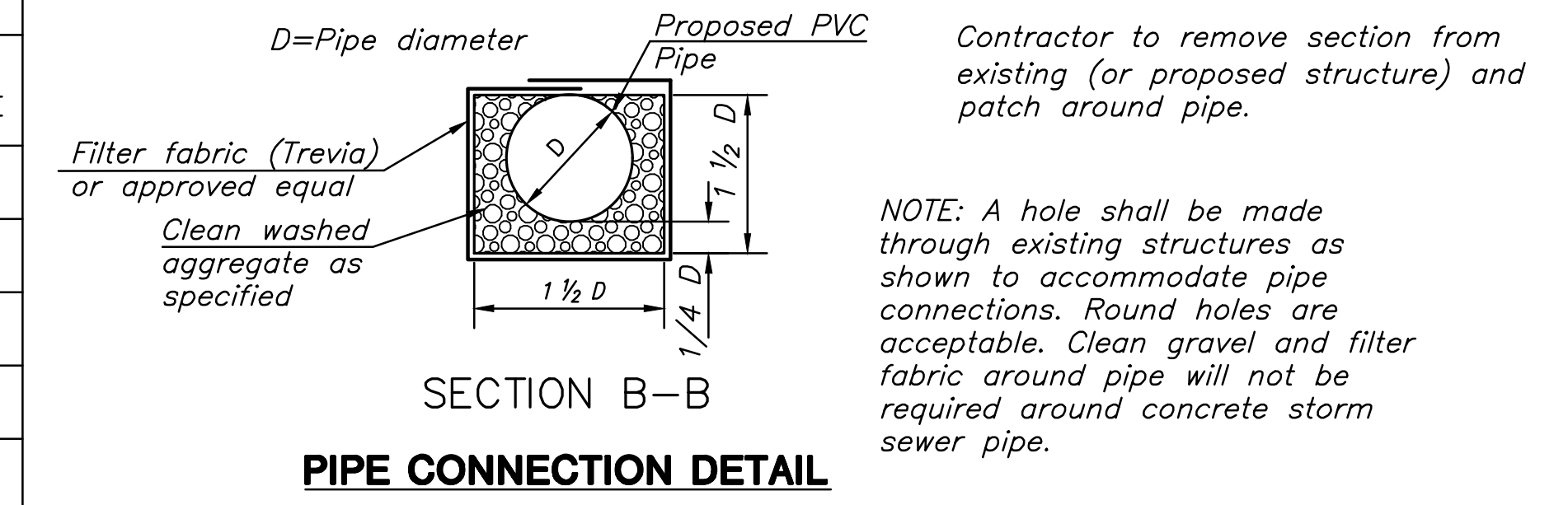
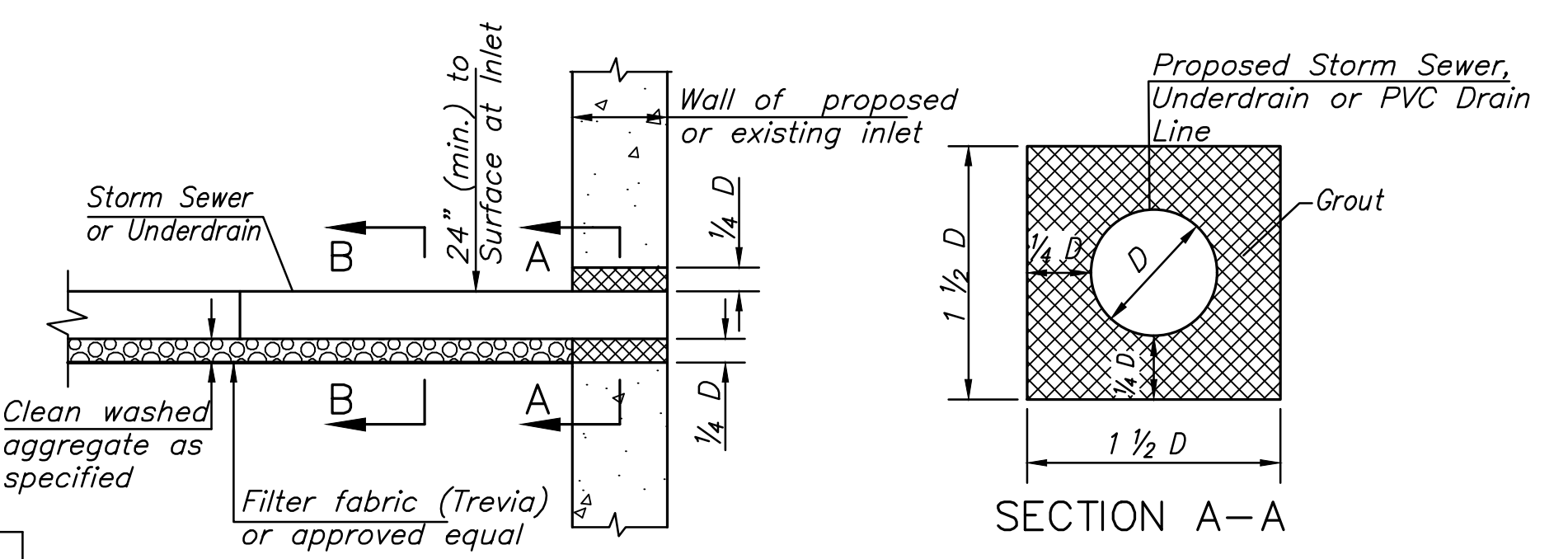
Note: Contractor shall construct box-outs around all surface utility fixtures, as shown, when fixtures fall on or near concrete joints, or as directed by the Engineer. All other fixtures shall have an isolation joint or bond breaker between them and concrete pavement. Cost shall be subsidiary.



PIPE PLUGGING DETAIL

Note: Pipe Plugs Shall Be Constructed Of Brick Masonry, With Construction Requirements And Materials Conforming To The Same Requirements As Specified For A Masonry Construction In The Std. Specs. Pipes Having Diameters Of 18" Or Smaller Shall Be Plugged With 8" Thick Plug. Pipes Having Diameters Larger Than 18" Shall Be Plugged With 12" Thick Plug. The Construction Of Pipe Plugs Shall Not Be Paid For Directly, But Shall Be Considered Subsidiary To Pipe Removal.

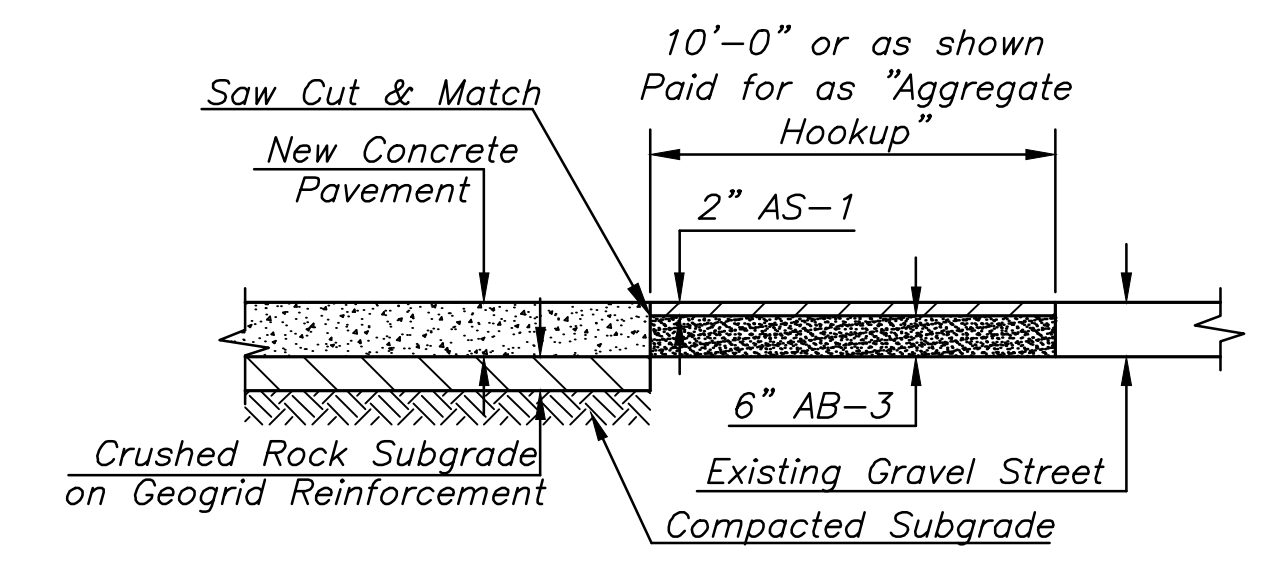
The Contractor May Use Other Methods To Plug Existing Pipe If Approved By The Project Engineer.



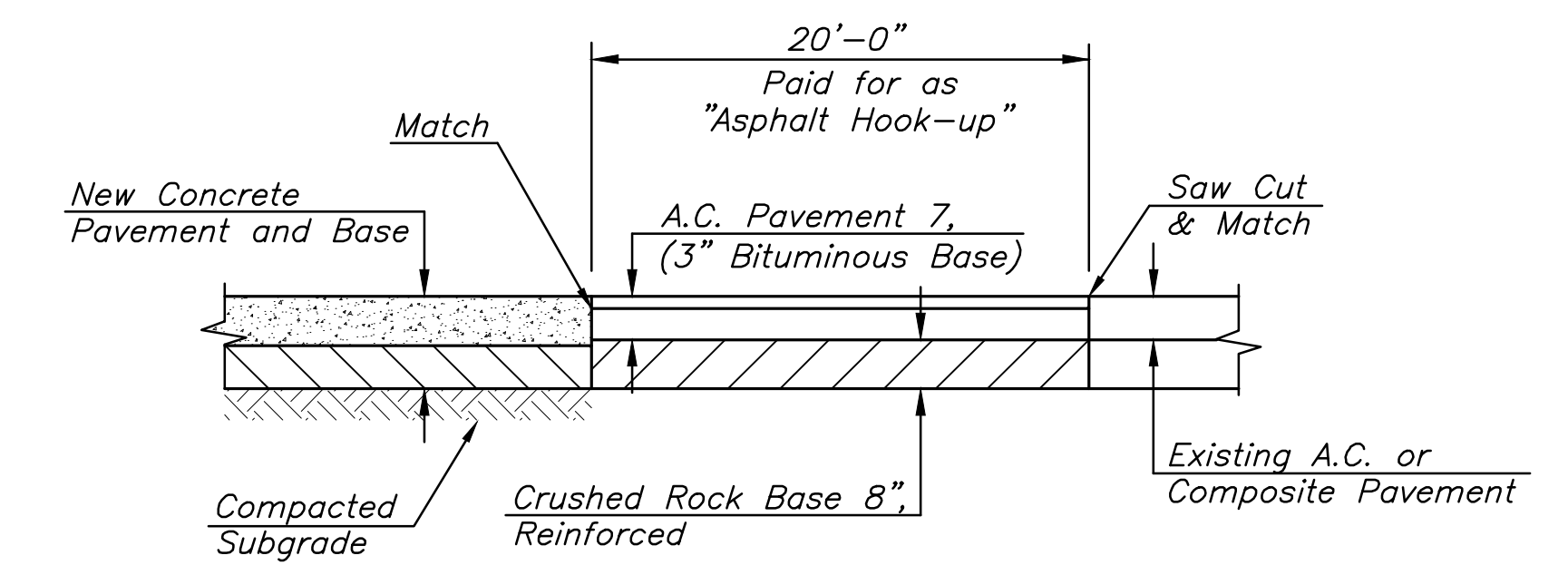
PIPE CONNECTION DETAIL

Contractor to remove section from existing (or proposed structure) and patch around pipe.

NOTE: A hole shall be made through existing structures as shown to accommodate pipe connections. Round holes are acceptable. Clean gravel and filter fabric around pipe will not be required around concrete storm sewer pipe.

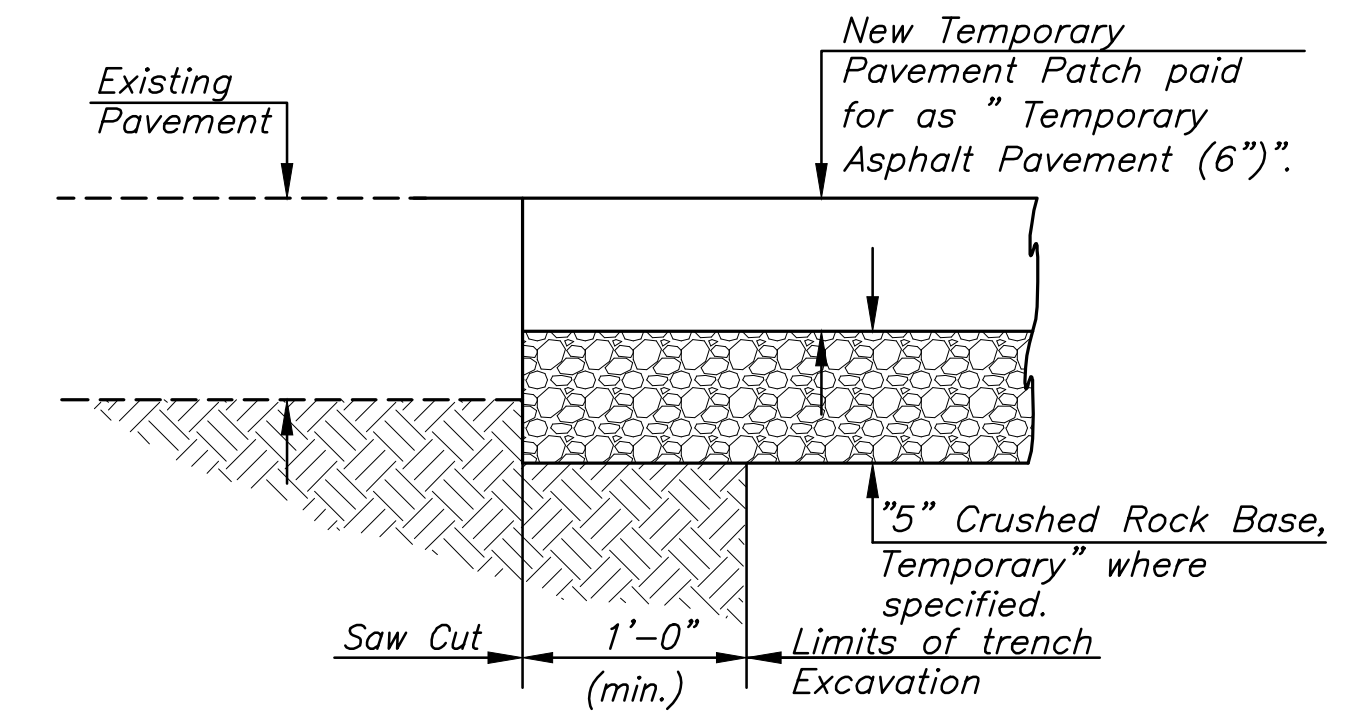


AGGREGATE HOOKUP DETAIL

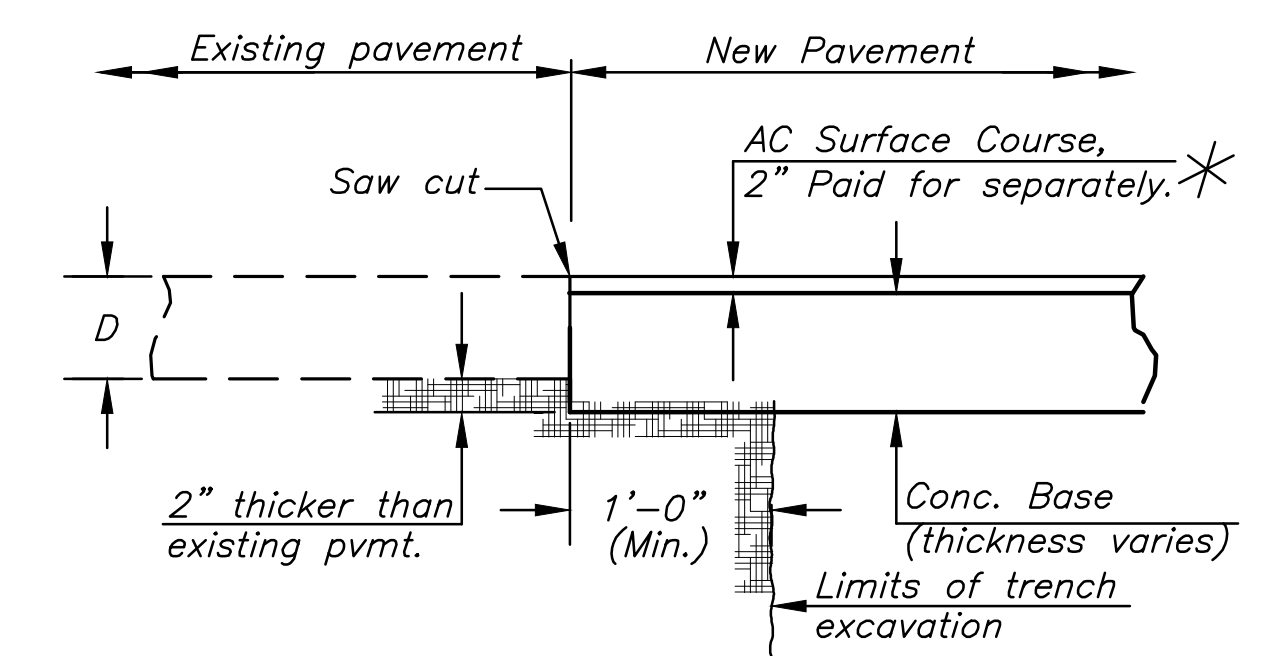


ASPHALT HOOKUP DETAIL

The bid item "Asphalt Hookup" shall include pavement removal, grading, rock base, geogrid, and A.C. Pavement as shown. Curb and Gutter is paid for separately.

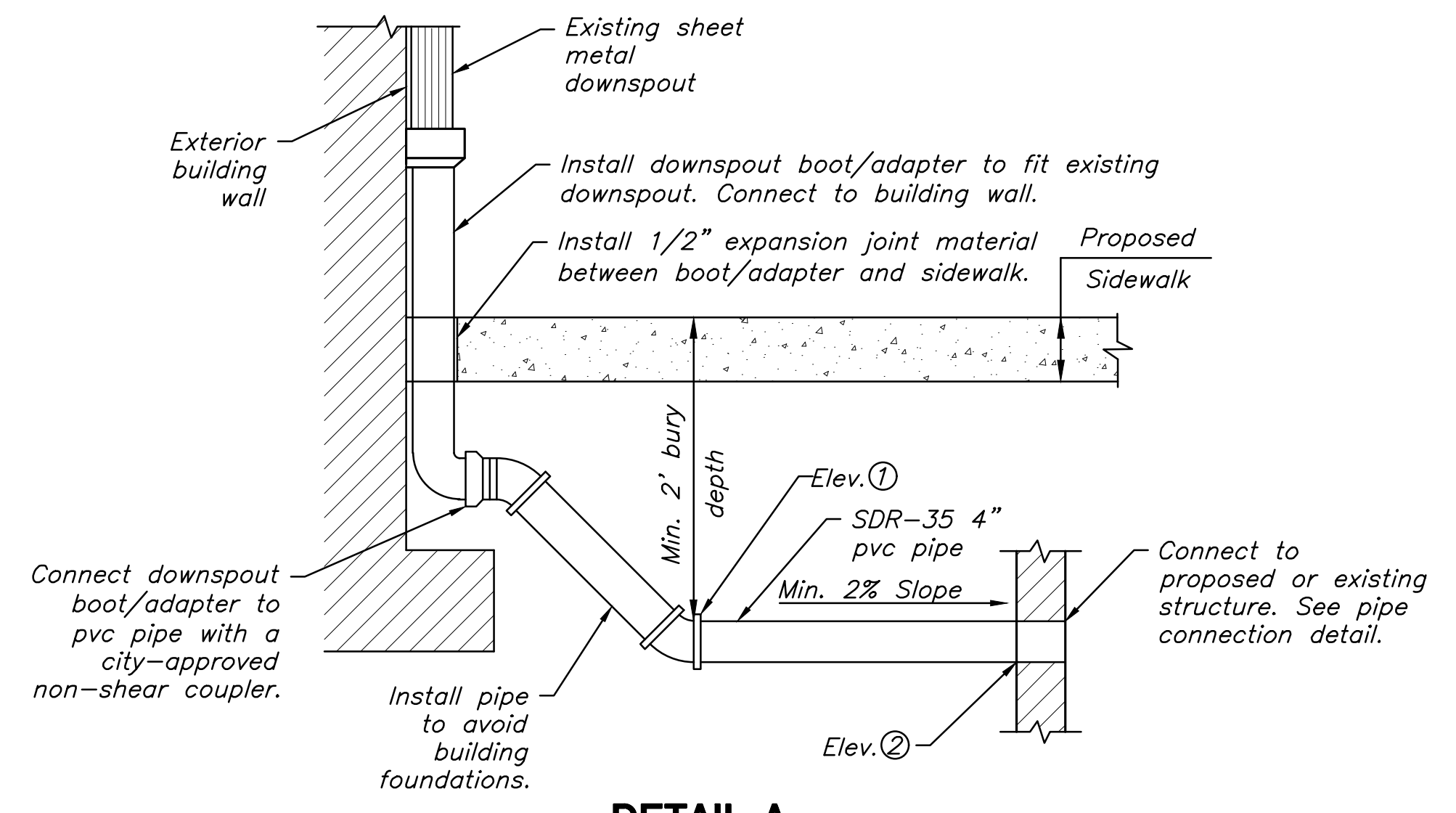


TEMPORARY PAVEMENT PATCH

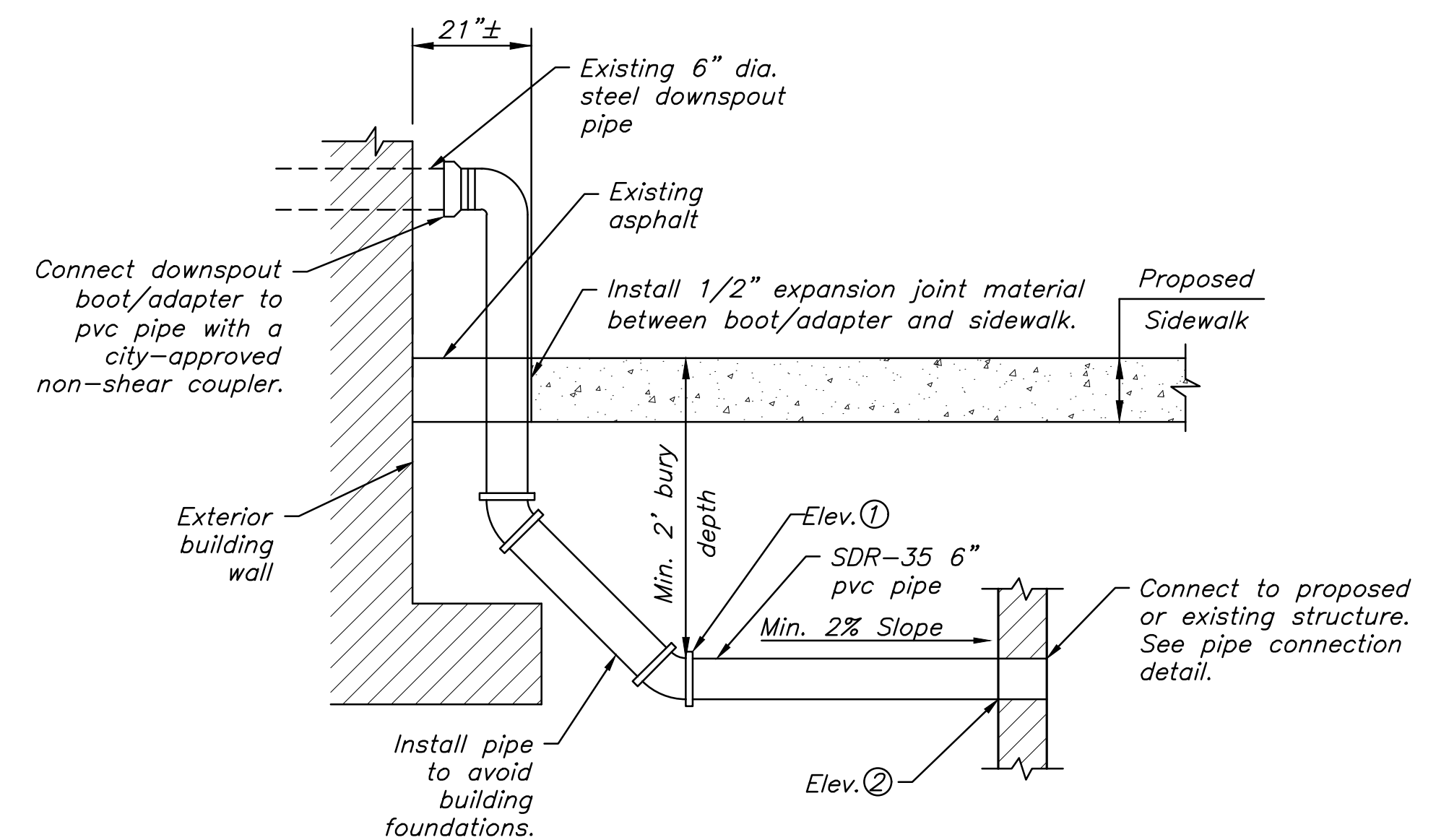


PERMANENT PAVEMENT PATCH DETAIL

* For concrete pavements, entire patch shall be concrete at 2" thicker than existing pavement and patch shall be tied to existing concrete with #5 bars x 36" spaced 30" apart drilled and grouted into the existing pavement. For all patches, concrete shall be paid for as "Concrete Pavement Removed and Replaced."



DETAIL A



DETAIL B

DOWNSPOUT CONNECTION SUMMARY

STATION	OFFSET	DOWNSPOUT SIZE/TYPE	PVC PIPE SIZE	PAID PIPE LENGTH (L.F.)	APPLICABLE DETAIL	MAX. ELEV. TOP PIPE @ PVMT.	APPROX. ELEV. PIPE AT 2'	RECEIVING STRUCTURE
22+77.13	42.1' LT.	4"x4" SHEET METAL	4"	27	A	1309.5	1308.4	PROPOSED MH STACK
23+24.46	42.7' LT.	4"x4" SHEET METAL	4"	26	A	1309.5	1308.0	PROPOSED INLET
35+89.72	30.7' RT.	6" STEEL PIPE	6"	45	B	1308.9	1306.5	EXIST. MH STACK *
36+34.65	31.4' RT.	6" STEEL PIPE	6"	17	B	1308.7	1306.5	EXIST. MH STACK *
45+52.92	29.1' RT.	4" SHEET METAL PIPE	4"	35	A	1305.5	1304.0	PROPOSED MH STACK

* Connection to existing stack paid for as "Connection to Existing Structure".

STREET IMPROVEMENTS FOR
17TH ST - BROADWAY TO I-135
FROM BROADWAY TO I-135

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MISCELLANEOUS DETAILS

PROJECT NO.	87 N-0662-01	
DATE	8/30/2019	
SCALE	NA	
DESIGNED	MKEC	
DRAWN	MKEC	
CHECKED	JRA	
NO.	REVISION	DATE

SHEET NO.
85 OF 194