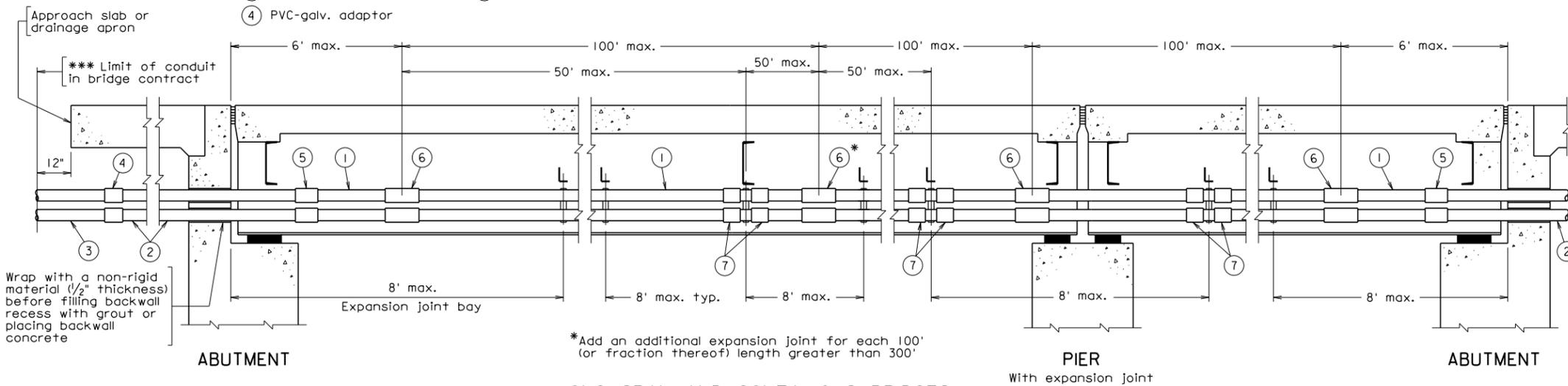


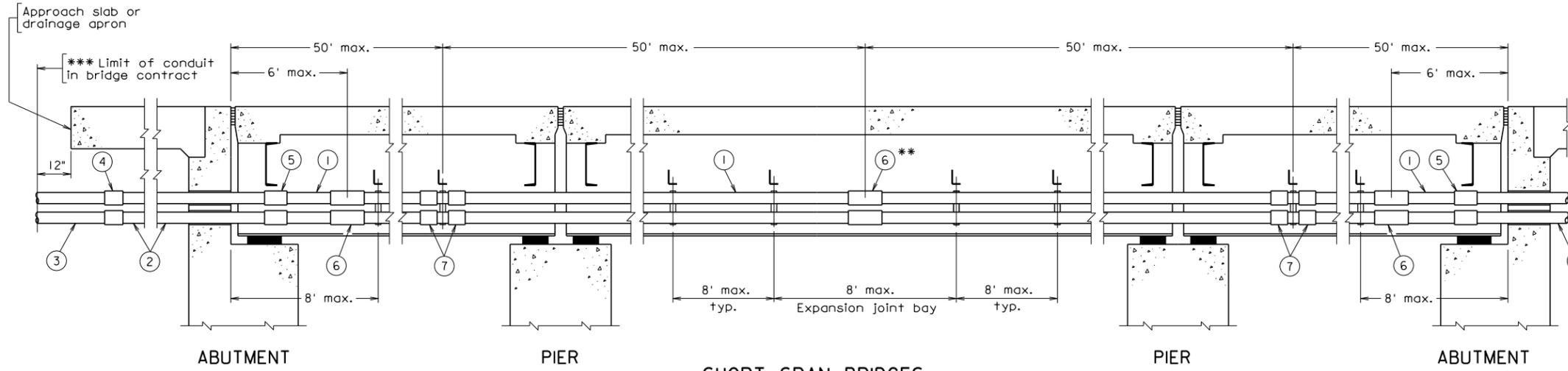
STATE	FEDERAL AID	STATE	SHEET
ROUTE	PROJECT	ROUTE	NO.
VA.			

- ① 4" Ø PVC-D duct
- ② 4" Ø galv. steel duct
- ③ 4" Ø PVC-B duct
- ④ PVC-galv. adaptor
- ⑤ Galv.-PVC adaptor
- ⑥ PVC exp. joint
- ⑦ PVC lock ring

*** Limit of telephone conduit in bridge contract when approach slabs or drainage aprons are not used shall be the extension of the conduit a minimum of one foot behind back of backwall



LONG SPAN AND CONTINUOUS BRIDGES



SHORT SPAN BRIDGES

** Not required on bridges under 100' total length. Add an additional expansion joint for every 100' (or fraction thereof) length greater than 200'.

Notes:

PVC conduit shall be PVC-B in buried locations and PVC-D in exposed locations, and shall meet the requirements of AT&T specifications AT-8546.

Duct splices shall be adhesive bonded bell and spigot.

Expansion joints shall be sliding sleeve type to accommodate at least 6" of expansion travel.

Threaded couplings shall be used on steel conduit.

Steel fittings and rods shall be galvanized in accordance with ASTM A153. When the supporting angles to which the rods are attached are weathering steel, a neoprene or vinyl washer shall be placed between the angle surface (on both sides) and the nut/washer to isolate the contact between the two surfaces.

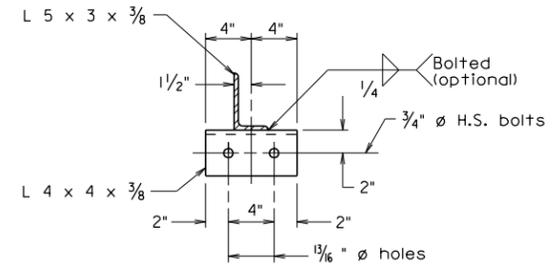
Structural steel for angles shall be the same as that for the beams/girders. If the beams/girders are painted, the angles shall be galvanized in accordance with ASTM A123.

If the angle is galvanized, the H.S. bolts shall be ASTM A325 galvanized. If the angle is not painted (unpainted weathering steel), the H.S. bolts shall be ASTM A325, Type 3.

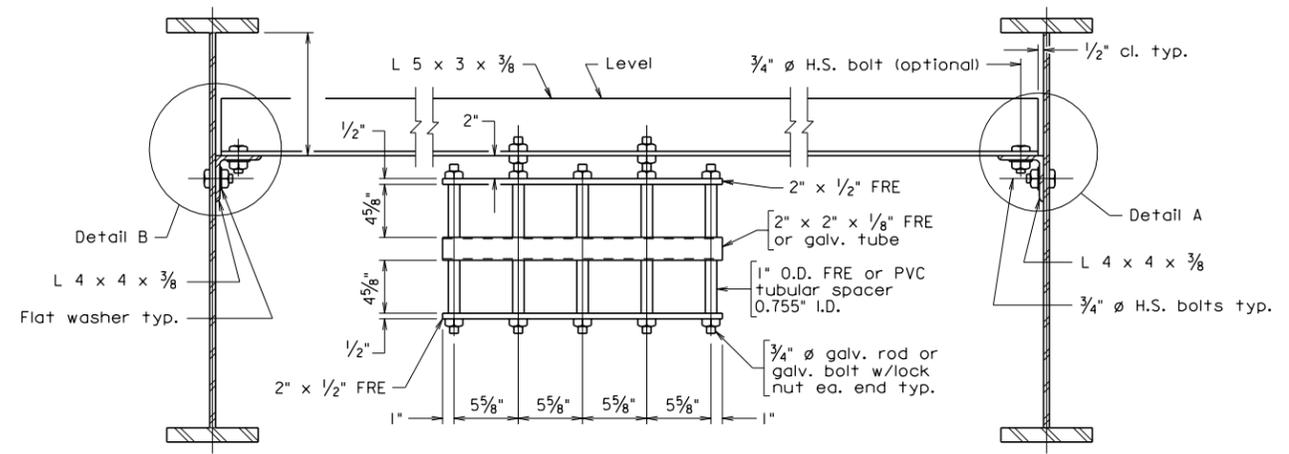
Hanger details shown are designed to support as many as 12 conduits.
Dead Loads: Cables: 8.5 lbs./ft. per conduit
Conduit: 1.5 lbs./ft.

Under ground installation of PVC-B duct shall be in accordance with Road and Bridge Standards EC1-1 except the minimum spacing between ducts shall be 3/4".

Payment - Telephone Conduit System shall be paid for on a lump sum basis, wherein no measurement shall be made, and shall be paid for at the contract lump sum price. Price shall include furnishing and installing conduit, supporting angles, connections, all related parts/attachments and miscellaneous hardware; all as detailed on the Telephone Conduit System drawing included herein and within the pay limits shown thereon. Such price shall be full compensation for furnishing all materials, labor, tools, equipment and incidentals necessary to complete the work.

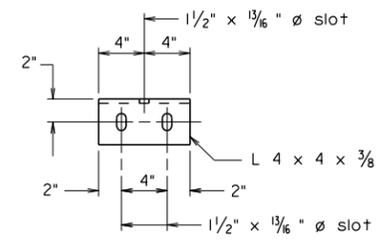


DETAIL B



TYPICAL SUPPORT DETAIL

Use Detail A at one end and Detail B at the other end



DETAIL A

CONDUIT FORMATIONS

Number of conduits	2	4	6	8	12
Preferred formation					
Alternate formation					

btc4.dgn

08-07-2012

BTC-4

Sealed and Signed by:
Julius F.J. Volgyi Jr.
Lic. No. 010487
On the date of
Aug. 7, 2012

A copy of the original sealed and signed standard drawing is on file in the Central Office.

VDOT S&B DIVISION
RICHMOND, VA
STRUCTURAL ENGINEER

COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION STRUCTURE AND BRIDGE DIVISION					
TELEPHONE CONDUIT SYSTEM					
G. Henderson					
No.	Description	Date	Designed: S&B...DIV	Date	Plan No.
			Drawn: S&B...DIV		BTC-4
			Checked: S&B...DIV		
Revisions					

Not to scale

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TELEPHONE CONDUIT SYSTEM

PVC CONDUIT STEEL BEAM/GIRDER SPANS

NOTES TO DESIGNER:

Standard is for use with: PVC conduit
Steel beam/girder spans

Show conduit formation on transverse section sheet and indicate number of conduits (e.g. 4 -4" ϕ telephone conduits). Show dimension from bottom of top flange (top of web) to support angle at the beam/girder the dimension is set on transverse section sheet. When setting the dimension allow for a minimum of 1" (2" to 3" preferred) clearance to diaphragms, cross frames etc. Normally the critical clearances are at the ends of spans (at supports). Indicate location of centerline of telephone conduits on framing plan (e.g., centerline of 4 - 4" ϕ telephone conduits). Do not show hanger spacing on framing plan.

Utilities shall be placed in the exterior bays of the bridge if possible.

ADD THE FOLLOWING NOTES, DIMENSIONS, DETAILS, ETC. TO STANDARD:

TYPICAL SUPPORT DETAIL:

Enter dimension from bottom of top flange to L 5 x 3 x $\frac{3}{8}$ support. This must agree with dimension set on transverse section sheet.