



MULTIPLE PIPE INSTALLATION DETAIL

MATERIALS AND COMPACTION TABLE				
PIPE LOCATION	PIPE ZONE		TRENCH ZONE	
	MATERIAL REQUIREMENT	COMPACTION REQUIREMENT	MATERIAL REQUIREMENT	COMPACTION REQUIREMENT
INSIDE ROADWAY PRISM	¾" AGGREGATE (703.04) (SEE NOTE NO. 1)	6" MAX. LOOSE LIFTS, COMPACTED TO 95% OF AASHTO T-99 OR IT-74 (SEE NOTE NO. 3)	¾" AGGREGATE (703.04) (SEE NOTE NO. 1)	CLASS A COMPACTION. (SEE NOTE NO. 2)
OUTSIDE ROADWAY PRISM	¾" AGGREGATE (703.04) (SEE NOTE NO. 1)	6" MAX. LOOSE LIFTS, COMPACTED TO 95% OF AASHTO T-99 OR IT-74 (SEE NOTE NO. 3)	GRANULAR BORROW OR NATIVE MATERIALS WITH MAXIMUM SIZE OF 6" AND FREE FROM WOOD WASTE OR DELETERIOUS MATERIALS. (SEE NOTE NO. 1)	CLASS D COMPACTION

DIMENSION TABLE (SEE NOTE NOS. 4 AND 5)				
D (INCHES)	B (INCHES)	H (INCHES)	S (INCHES)	
≤ 6	10	8	24	
7 TO 15	12	10	24	
16 TO 30	18	12	24	
> 30	24	14	GREATER OF 24 OR D/2	

NOTES

- CONTROLLED DENSITY FILL (FLOWABLE FILL) MATERIAL OR PEA GRAVEL CAN BE USED IF APPROVED BY THE ENGINEER.
- CLASS D COMPACTION IN MEDIAN AND OUTSIDE 2H:1V SLOPE.
- LOOSE LIFT THICKNESS DIRECTLY ON TOP OF PIPE MAY BE INCREASED TO PREVENT DAMAGE TO PIPE DURING COMPACTION. CLASS D COMPACTION MAY BE APPLIED OUTSIDE THE ROADWAY PRISM IF APPROVED BY THE ENGINEER.
- WHEN TWO DIFFERENT DIAMETER PIPES ARE INSTALLED, USE THE LARGER D DIMENSION TO DETERMINE THE S DIMENSION.
- FOR PIPE DIAMETERS GREATER THAN 36 INCHES, THE B DIMENSION SHOULD BE EQUAL TO THE PIPE DIAMETER WHEN THE PIPE IS INSTALLED DURING EMBANKMENT CONSTRUCTION.
- DRAWINGS NOT TO SCALE.

ORIGINAL STORED AT: ITD, Headquarters 3311 West State Boise, Idaho

ORIGINAL SIGNED BY: TRJ BUJ
DATE ORIGINAL SIGNED: MAY 8, 2014

REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME: d12_0514.dgn
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IDAHO TRANSPORTATION DEPARTMENT
BOISE IDAHO

ORIGINAL SIGNED BY: CARL D. MAIN
DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING
PIPE & CONDUIT INSTALLATION

English
STANDARD DRAWING NO. **D-12**
SHEET 1 OF 1