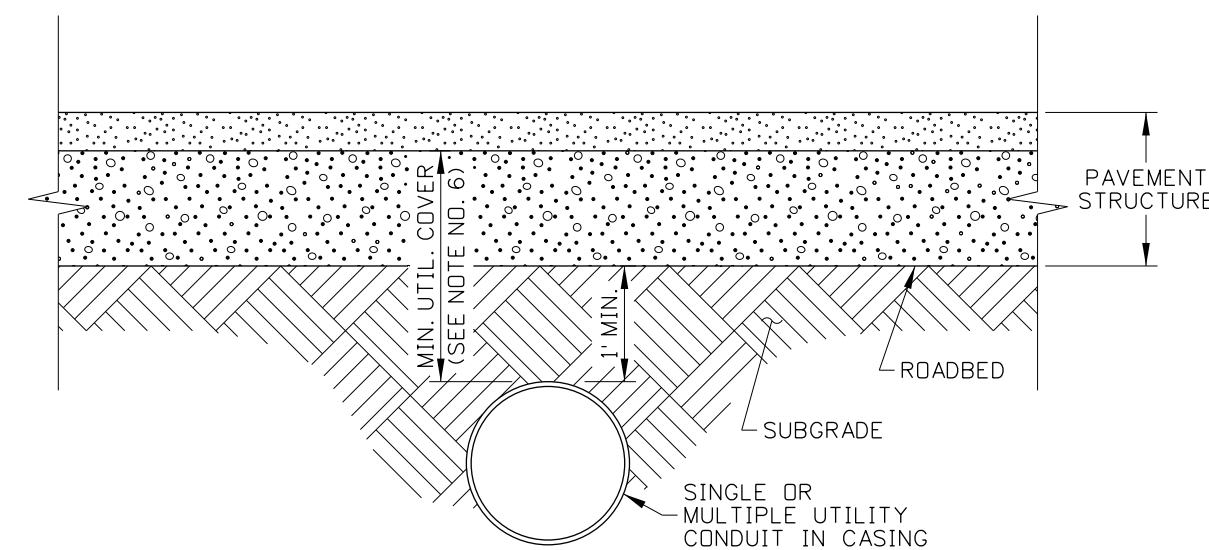
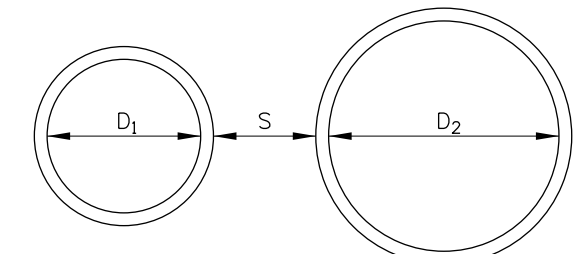


TRENCHING



JACKING, DRIVING, OR BORING



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	3/4" AGGREGATE (703.04) (SEE NOTE NO. 1)	6" MAX. LOOSE LIFTS, COMPACTED TO CLASS A COMPACTION OR 90% OF T-180 OR IT-74 (SEE NOTE NO. 3)	3/4" AGGREGATE (703.04) (SEE NOTE NO. 1)	95% OF T-180 OR IT-74. (SEE NOTE NO. 2)
OUTSIDE ROADWAY PRISM	3/4" AGGREGATE (703.04) (SEE NOTE NO. 1)	6" MAX. LOOSE LIFTS, COMPACTED TO CLASS A COMPACTION OR 90% OF T-180 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. DENSITY TEST MAY NOT BE REQUIRED FOR MATERIAL IN THE HAUNCH AND SIDES OF PIPE. CLASS D COMPACTION MAY BE APPLIED TO 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 INSTALLED DURING EMBANKMENT CONSTRUCTION.
- MINIMUM DEPTH OF COVER FOR CONDUITS CARRYING:
WATER: 3'
LIQUID OR GAS PETROLIUM: 4'
COMMUNICATIONS OR ELECTRONICS: 2'
- DRAWINGS NOT TO SCALE.

REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	12-15	RDL						
2	03-16	RDL						
3	06-17	RDL						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME: 601-1_0617.dgn
DRAWING DATE: MAY 2014

IDAHO TRANSPORTATION DEPARTMENT



BOISE IDAHO

ORIGINAL SIGNED BY: KEVIN SABLAN
DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING
PIPE AND CONDUIT INSTALLATION

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

ORIGINAL SIGNED BY: JOHN W. INGRAM III
DATE ORIGINAL SIGNED: JUNE 14, 2017

English
STANDARD DRAWING NO.
601-1
SHEET 1 OF 1