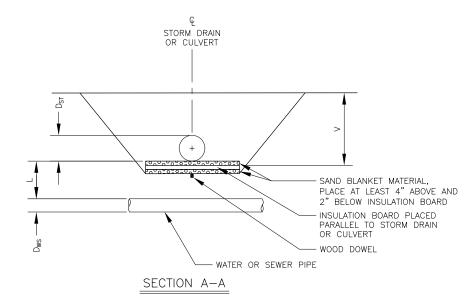
WATER OR SEWER PIPE STORM DRAIN OR CULVERT - INSULATION BOARD

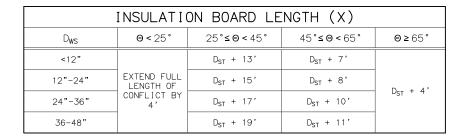
### PLAN VIEW



## STORM DRAIN CONFLICTS

## STORM DRAIN NOTES:

- LENGTH OF CONFLICT (X) IS DEFINED AS WHEN THE EDGES OF THE OUTER DIAMETER OF THE PIPES IN QUESTION ARE WITHIN 36 INCHES OF ONE ANOTHER.
- 2. L = REQUIRED MIN. VERTICAL SEPARATION
  - 36 INCH SEPARATION WITHOUT INSULATION 18 INCH SEPARATION WITH INSULATION.
- 3. INSULATION BOARD DIMENSIONS LOCATED IN TABLE:



INSULATION BOARD NOTES:

WOOD DOWELS PER PANEL.

1. FOR REQUIRED "R" VALUES SEE INSULATION BOARD TABLE IN SECTION 635 OF THE SPECIAL PROVISIONS.

2. "V" IS THE DEPTH OF INSULATION BOARD (2 FOOT MIN.).

4. ANCHOR INSULATION BOARD BY DRIVING A MINIMUM OF 2

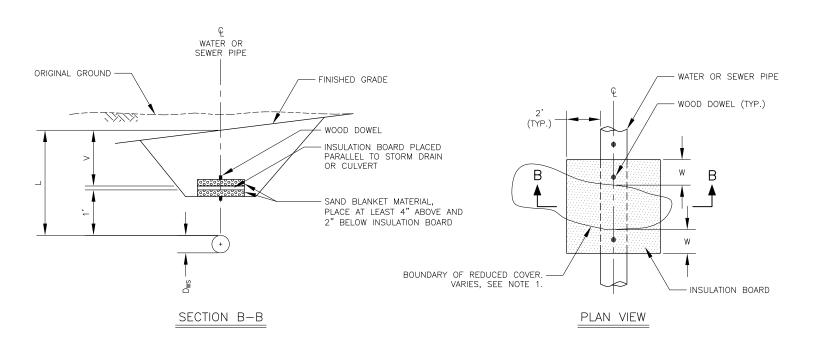
5. WHEN THE STORM DRAIN IS WITHIN THREE FEET OF A MANHOLE, THE LADDER IN THE MANHOLE MUST BE ROTATED OPPOSITE THE STORM DRAIN OR INSULATION PLACED BETWEEN

THE STORM DRAIN AND SANITARY SEWER MANHOLE TO

3. INSULATION BOARD THICKNESS IS 4 INCHES (MIN.)

PREVENT ICING ON THE MANHOLE LADDER.

#### DATE REVISION STATE PROJECT DESIGNATION ALASKA XXXXXXX/XXXXXXXXXX 20XXLAYOUT



# REDUCTION OF COVER ON WATER AND SEWER PIPES

### REDUCTION OF COVER NOTES:

- 1. TO BE USED WHEN FINISHED GRADE COMES WITHIN 10 FEET OF SANITARY/PRESURE
- SEWER OR WATER PIPES.
- 2. INSULATION BOARD DIMENSIONS:
- IF  $D_{WS} \le 6$  INCHES, W=2 FEET IF  $D_{WS} > 6$  INCHES AND IF 8 FEET  $\le L < 10$  FEET, W=2 FEET. IF  $D_{WS} > 6$  INCHES AND IF L < 8 FEET, L < 10 FEET, L < 10 FEET.
- 3. REQUIREMENTS FOR BURIAL:

DEPTH OF BURIAL					
UTILITY TYPE	L<4.5'	4.5'≤L< 5.5'	5.5'≤ L<8'	8'≤L<10'	L≥10'
GRAVITY SEWER	NOT ALLOWED	NO INSULATION REQUIRED	NO INSULATION REQUIRED	NO INSULATION REQUIRED	NO INSULATION REQUIRED
PRESSURE SEWER		NOT ALLOWED	ARCTIC PIPE REQUIRED	ARCTIC PIPE REQUIRED	
WATER		NOT ALLOWED	ARCTIC PIPE REQUIRED	INSULATION REQUIRED	

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES PROJECT TITLE PROJECT TITLE INSULATION BOARD

DETAILS