

CONSTRUCTION NOTES:

- ① DRAINAGE STRUCTURE AND/OR CULVERTS MAY HAVE INADEQUATE COVER. CONTRACTOR RESPONSIBLE FOR FIELD VERIFYING DEPTH OF COVER AT EACH STRUCTURE BY EXPOSING TOP OF PIPE PRIOR TO INSTALLATION.
- ② DRAINAGE STRUCTURES AND/OR CULVERTS PARALLEL TO RUNNING LINE CONDUIT INSTALLATION. DRAINAGE INFRASTRUCTURE MAY HAVE INADEQUATE COVER. CONTRACTOR RESPONSIBLE FOR FIELD VERIFYING DEPTH OF COVER AT EACH STRUCTURE BY EXPOSING TOP OF THE PIPE PRIOR TO INSTALLATION.
- ③ THE EXISTING FIELD CONDITION, SLOPE GRADES, DRAINAGE STRUCTURES AND/OR CULVERTS CAUSES THE RUNNING LINE CONDUIT INSTALLATION TO BE WITHIN 14FT OFF THE CENTERLINE OF THE OUTERMOST PAVEMENT MARKINGS. THE CONTRACTOR IS RESPONSIBLE FOR ANY DISRUPTION TO EXISTING INFRASTRUCTURE AND WILL REPAIR OR REPLACE ANY ALTERATION OF EXISTING INFRASTRUCTURE AT NO COST TO VTRANS. FOR SPECIFIC INFORMATION ON DIVERTING THE RUNNING LINE CONDUITS AROUND EXISTING DRAINAGE STRUCTURES AND/OR CULVERT, REFERENCE THE DETAIL PROVIDED WITHIN THE CONTRACT DOCUMENTS.
- ④ BRIDGE CROSSING MAY HAVE INADEQUATE COVER. CONTRACTOR RESPONSIBLE FOR FIELD VERIFYING DEPTH OF COVER AT EACH STRUCTURE BY EXPOSING TOP OF BRIDGE STRUCTURE PRIOR TO INSTALLATION. BASED ON FIELD INVESTIGATIONS THE CONTRACTOR IS RESPONSIBLE FOR THE USE OF TWO 4" BLACK STEEL PIPE CARRIERS FOR PROTECTION OF CONDUITS AS NEEDED, UNLESS NOTED OTHERWISE.
- ⑤ ROCK OUTCROP AND/OR ROCK WALL MAY AFFECT THE INSTALLATION AND STRENGTH OF HDPE CONDUITS. THE CONTRACTOR IS REQUIRED TO TRENCH AND INSTALL TWO 4" BLACK GALVANIZED STEEL SCHEDULE 40 ENCASING PIPES. THE CONTRACTOR IS RESPONSIBLE FOR PLACING CONDUITS 1 AND 2 IN ONE STEEL PIPE WITH CONDUIT 3, 4, 5, AND 6 IN THE ADJACENT STEEL PIPE. FOR INFORMATION ON SPECIFIC INSTALLATION DETAILS, REFERENCE THE DETAILS PROVIDED WITHIN THE CONTRACT DOCUMENTS.
- ⑥ ROCK OUTCROP AND/OR ROCK WALL CAUSES THE RUNNING LINE CONDUIT INSTALLATION TO BE WITHIN 14FT OF THE CENTERLINE OF THE OUTERMOST PAVEMENT MARKINGS. THE CONTRACTOR IS RESPONSIBLE FOR ANY DEMOLITION OF ADJACENT SOILS AT NO COST TO VTRANS. FOR INFORMATION ON SPECIFIC INSTALLATION DETAILS ALONG ROCK OUTCROPS AND ROCK WALLS, REFERENCE THE DETAIL PROVIDED WITHIN THE CONTRACT DOCUMENTS.
- ⑦ CONDUIT TRANSITION THROUGH THE MEDIAN OF I-89 ROW. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING CABLE ROUTE MARKERS (CRM) AT THE START AND END OF TRANSITIONS FOR UTILITY IDENTIFICATION. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING COVER ON ANY CULVERTS, DRAIN STRUCTURES, AND EXISTING INFRASTRUCTURE IN THE FIELD PRIOR TO INSTALLATION. ANY DEVIATIONS IN THE TRANSITION DESIGN WILL NEED TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- ⑧ EMERGENCY HIGHWAY CROSSOVER. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF EXISTING ASPHALT TO THE ORIGINAL CONDITION.
- ⑨ SPLICE VAULT LOCATION. ALL SPLICE VAULT LOCATIONS WILL CONTAIN ONE 4FT X 4FT X 6FT CONCRETE STRUCTURE SPLICE VAULT AND ONE 4FT X 6FT X 3FT OPEN BOTTOM HANDHOLE. CONTRACTOR RESPONSIBLE FOR THE INSTALLATION AT FINISH GRADE AND ALL RESTORATION EFFORTS. THE SPLICE VAULT STRUCTURE WILL FURNISH ONLY CONDUITS 1 AND 2, WHILE THE HANDHOLE WILL FURNISH CONDUITS 3, 4, 5, AND 6. EACH FIBER OPTIC SPLICE VAULT LOCATION SHALL HAVE A 100FT FIBER OPTIC COIL FOR FUTURE FIBER SPLICING. CONTRACTOR RESPONSIBLE FOR SECURING THE FIBER OPTIC CABLE COIL IN THE HANDHOLE. CONTRACTOR SHALL USE VELCRO STRAPS TO SECURE FIBER OPTIC COILS NEATLY IN PLACE. IF ANY OTHER OR ADDITIONAL ITEM WILL BE USED FOR SECURING THE FIBER OPTIC CABLE COIL WITHIN THE HANDHOLE, IT MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL. THE CONTRACTOR IS RESPONSIBLE FOR THE CONDUIT COLORED COORDINATION AND CONSISTENCY ON THE ENTIRE BACKBONE. FOR SPECIFIC INFORMATION ON THE SPLICE VAULT LOCATION DESIGN, REFERENCE THE DETAIL PROVIDED WITHIN THE CONTRACT DOCUMENTS.

CONSTRUCTION NOTES (CONTINUED):

- ⑩ DUAL HANDHOLE SETUP WITH FIBER OPTIC SPARE COIL. THE FIBER AND SPARE FIBER OPTIC COIL WILL BE INSTALLED IN THE 3FT X 5FT X 3FT VTRANS HANDHOLE. HANDHOLE SHALL BE FURNISHED WITH A MINIMUM FIBER OPTIC CABLE COIL OF 50FT, UNLESS NOTED OTHERWISE. CONTRACTOR RESPONSIBLE FOR SECURING FIBER OPTIC CABLE IN HANDHOLE. CONTRACTOR SHALL USE VELCRO STRAPS TO SECURE FIBER OPTIC COILS NEATLY IN PLACE.
- ⑪ DUAL HANDHOLE SETUP WITH FIBER OPTIC SPLICE POINT. THE FIBER, SPLICE ENCLOSURE, AND SPARE FIBER OPTIC COIL WILL BE INSTALLED IN THE 3FT X 5FT X 3FT VTRANS HANDHOLE. HANDHOLE SHALL BE FURNISHED WITH A MINIMUM FIBER OPTIC CABLE COIL OF 50FT, FROM EACH CABLE END, UNLESS NOTED OTHERWISE. CONTRACTOR RESPONSIBLE FOR SECURING THE FIBER OPTIC CABLE COIL IN MANHOLE. CONTRACTOR SHALL USE VELCRO STRAPS TO SECURE FIBER OPTIC COIL NEATLY IN PLACE. IF ANY OTHER OR ADDITIONAL ITEMS WILL BE USED FOR SECURING THE FIBER OPTIC COIL WITHIN THE HANDHOLE, IT MUST BE SUBMITTED TO ENGINEER FOR APPROVAL.
- ⑫ BRIDGE ATTACHMENT STEEL PIPE CARRIERS SHALL PENETRATE EACH HANDHOLE. MAXCELL, OR AN APPROVED EQUAL INNER DUCT SHALL BE UTILIZED IN STEEL PIPE CARRIERS, BETWEEN THE HANDHOLES, ON EACH SIDE OF BRIDGE. DURING INSTALLATION THE CONTRACTOR SHALL KEEP THE STEEL PIPE CARRIERS AND RUNNING LINE AT 60" BELOW FINAL GRADE UNTIL THE PIPES EXIT OUTSIDE THE FINISH GRADE OF THE HILL, ALONG THE BRIDGE WALL.
- ⑬ SPLICE VAULT #2 IS LOCATED IN THE MEDIAN NORTHWEST OF THE NEW HAMPSHIRE BORDER. SPLICE VAULT #2 REQUIRES THE SAME EXCAVATION AND INSTALLATION REQUIREMENTS AS ALL OTHER SPLICE VAULTS WITH THE EXCEPTION OF FIBER OPTIC CABLE INSTALLATION. THIS WILL BE THE TERMINUS POINT FOR ALL CONDUITS NEAR THE NEW HAMPSHIRE BORDER. THE UNUSED CONDUIT PENETRATIONS ON THE SOUTHEAST SIDE OF THE MANHOLE AND HANDHOLE SHALL BE SEALED WITH AN APPROVED PENETRATION SEALANT. AN 18" CORRUGATED HDPE STORM DRAIN IS LOCATED UNDER THE HIGHWAY CROSSOVER; THE COVER IS UNKNOWN. THE STORM DRAIN PIPE IS LOCATED APPROXIMATELY 10FT FROM THE CENTER POINT OF THE SPLICE VAULT LOCATION TOWARD THE CENTER OF THE MEDIAN. THIS LOCATION IS APPROXIMATELY AT THE I-89 MILE POST 0.05. THE LOCATION OF THIS SPLICE VAULT IS APPROXIMATELY 15FT SOUTH OF THE "NO U-TURN" SIGN AND 18FT PERPENDICULAR TO THE NORTHBOUND EDGE OF TRAVEL WAY.
- ⑭ ALL DIRECTIONAL BORES STARTING AND/OR STOPPING AT HIGHWAY CROSSOVERS SHALL DISCHARGE OR ENTER THE GROUND AT THE APPROXIMATE CENTER OF HANDHOLE TRENCH WORK. THE MINIMUM REQUIREMENT FOR THE START AND/OR END POINT OF THE BORE IS 18FT PERPENDICULAR TO THE CENTERLINE OF THE OUTERMOST PAVEMENT MARKING AND 20FT PERPENDICULAR TO THE EDGE OF PAVEMENT OF THE EMERGENCY CROSSOVER.
- ⑮ SPLICE VAULT #3 SHALL INVOLVE THE SAME EXCAVATION AND INSTALLATION AS ALL OTHER SPLICE VAULT LOCATIONS WITH THE EXCEPTION OF ONE ADDITIONAL PENETRATION TO THE WALLS OF BOTH THE MANHOLE AND HANDHOLE. THE 4FT X 4FT X 6FT MANHOLE AND THE 4FT X 6FT X 3FT HANDHOLE WILL HAVE TWO PENETRATIONS FOR CONDUITS ON THE SOUTHEAST SIDE, WITH THE TYPICAL PENETRATIONS ON THE NORTHWEST SIDE. THE CONTRACTOR SHALL INSTALL THE CONDUITS FROM THE CAT PLOW TO SV#2 ON THE SOUTHEAST WALL OF THE HANDHOLE AND MANHOLE. FOR ADDITIONAL INFORMATION SEE ACTION ITEM #3.

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FILE NAME: z06e142GNT4.dgn  
PROJECT LEADER: J. YOUNG  
DESIGNED BY: J. DURANTE  
CONSTRUCTION NOTES

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