

SECTION DRAWING - HIGHLIGHTING PROPOSAL #2

- NOTES:
- FOLLOWING THE REMOVAL OF DEBRIS, OPERATIVES WILL PROCEED TO INSTALL THE RAIL SYSTEM.
 - THE RAIL WILL BE CONSTRUCTED FROM DOWNSTREAM TO UPSTREAM.
 - THE RAILS WILL BE INSTALLED IN PIECEMEAL FASHION. EACH SECTION WILL BE DRILLED AND FIXED INTO THE INVERT.
 - FOLLOWING THE INSTALLATION OF THE FIRST RAIL, THE MODULAR SHUTTER SYSTEM WILL BE CONSTRUCTED AND PLACED ON THE RAILS (AS SHOWN BELOW).
 - TO TRANSPORT THE MODULAR SYSTEM MACHINE SKIDS WILL BE UTILIZED AND POSITIONED ON THE INTERSECTION BETWEEN THE RAIL AND MODULAR SYSTEM. OPERATIVES WILL PUSH A SINGLE SECTION UPSTREAM, CREATING SPACE FOR THE CONSTRUCTION OF AN ADDITIONAL MODULAR SYSTEM. OPERATIVES WILL THEN BOLTS THE UNITS TOGETHER.
 - THIS PROCESS WILL BE REPEATED A FURTHER SEVEN TIMES.
 - WHEN THE MODULAR SYSTEM SPANS THE ENTIRE COLLAPSE, OPERATIVES WILL THEN PROCEED TO JACK UP THE SYSTEM. OPERATIVES WILL ENSURE THAT A SUFFICIENT HEIGHT IS REACHED, AND THAT THE ARCH IS SUPPORTED.
 - IF REQUIRED, THE SYSTEM COULD ALSO BE BRACED FROM THE SOUTH WEST ABUTMENT, REDUCING THE 'MAKE UP' DETAIL AND OVERALL MATERIAL COST
 - FOLLOWING THE SUCCESSFUL INSTALLATION OF THE MODULAR SYSTEM, OPERATIVES WILL PROCEED TO REMOVE THE REMAINING DEBRIS FROM THE CULVERT INVERT AND LOWER SECTION OF THE SINK HOLE.
 - CONCRETE WILL THEN BE PUMPED DOWN THE SINK HOLE AND INTO THE CULVERT. THE MISSING MASONRY INVERT ALONG WITH THE BOTTOM OF THE SINK HOLE WILL BE REPLACED WITH CONCRETE.
 - FOLLOWING A SUFFICIENT CURING TIME, FURTHER CONCRETE WILL BE PLACED WITHIN THE SINK HOLE. DUE TO THE EXTENTS OF CONCRETE 2 - 3 POURS ARE ANTICIPATED.
 - THE CONCRETE WILL ENCOMPASS THE CULVERT ENSURING A SUFFICIENT COVER LEVELS HAS BEEN OBTAINED.
 - FOLLOWING A FURTHER CURING PERIOD THE MODULAR SYSTEM ALONG WITH THE RAILS WILL BE REMOVED. THE ELEMENTS OF THE RAILS ENCOMPASSED WITH CONCRETE WILL BE CUT BACK FLUSH TO THE INVERT AND REPAIRED.
 - OPERATIVES WILL THEN PROCEED TO REMOVE THE PUMPS, FOLLOWED BY THE SILT CURTAIN AND FRAME DAM SYSTEM.
 - THE COMPOUND WILL THEN BE DEMOBILIZED

CONCRETE TO BE PUMPED FROM A POSITION OF SAFETY

IMAGE HIGHLIGHTING THE COMPLETED MODULAR SYSTEM. NOTE THE THAT THE SYSTEM IS 'JACKED' UP AND SUPPORTING THE ARCH.

MACHINE SKIDS TO BE PACE AT BASE OF MODULAR SYSTEM

MODULAR SYSTEM TO BE INSTALLED OUTSIDE OF CULVERT AND PUSHED UPSTREAM

DEBRIS & MATERIAL BE REMOVED/LOWERED ALLOWING RAILS TO BE INSTALLED

IMAGE HIGHLIGHTING AREA OF COLLAPSE AND LOCATION OF DEBRIS

IMAGE HIGHLIGHTING TYPICAL EXAMPLE OF THE MODULAR DAM SYSTEM

IMAGE HIGHLIGHTING THE MODULAR SYSTEM POSITIONED ON RAILS

LEGEND:

NOTES:

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FOR INFORMATION ONLY			

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SWANSEA CITY COUNCIL

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