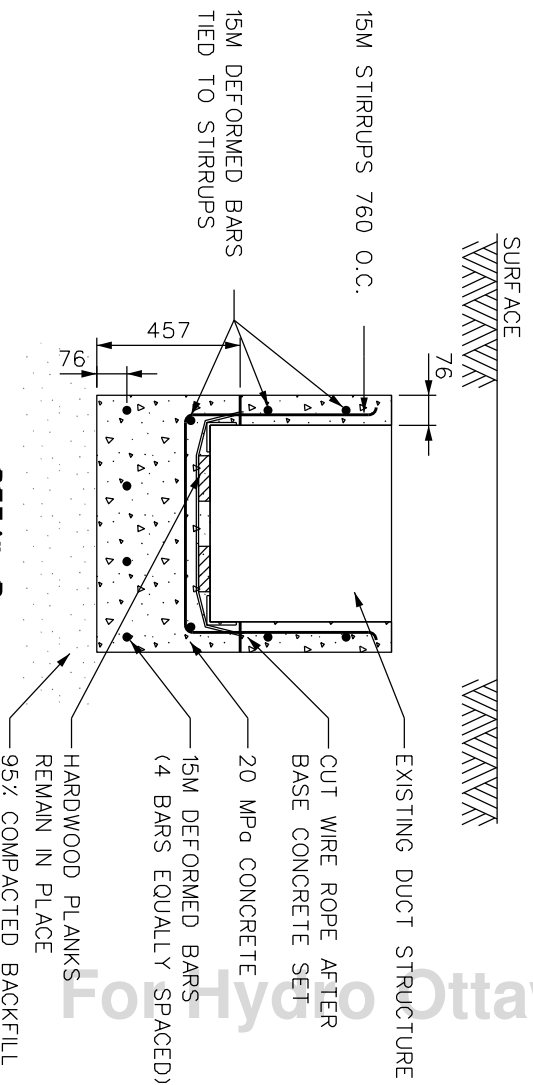


- NOTES:**
- ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
 - ALL BUTT JOINTS TO BE LAPPED 40 BAR DIAMETERS AND TIED.
 - PERMANENT SUPPORTING STRUCTURE MUST EXTEND INTO UNDISTURBED EARTH ON EACH SIDE OF EXCAVATION. DISTANCE TO BE DECIDED IN FIELD BY HYDRO OTTAWA REPRESENTATIVE.
 - BASE SUPPORT PLACED FIRST AND WHEN SET, CRADLE WALLS TO BE PLACED.
 - REFER TO HYDRO OTTAWA SPECIFICATION NUMBER UDS0013 TITLED: TEMPORARY AND PERMANENT SUPPORT FOR DUCT BANKS WHEN UNDERCUT BY AN EXCAVATION.



**DETAIL A
BASE SUPPORT OF DUCT STRUCTURE**



**DETAIL B
CRADLE SUPPORT OF DUCT STRUCTURE**

REVISIONS	PREP	CHKD	APPD
REV: 2 CHANGE:	CP	CP	CSM
DATE: 2007-09-28			
REV: 3 CHANGE: TITLE CHANGE	FB	RW	CSM
DATE: 2010-05-18			
REV: 4 CHANGE: CONCRETE STRENGTH CHANGED TO 20 MPa	CP	CP	CSM
DATE: 2015-06-26			

HydroOttawa
www.hydroottawa.com

PREP: F. BOLO
CHKD: C. PROULX
APPD: C. MALONE
DATE: 2002-05-20
SCALE: N.T.S. & ANSIA

**ENGINEERING SPECIFICATION
DUCT SUPPORT PERMANENT
OF EXISTING STRUCTURE**

CONSTRUCTION DETAIL

UDS0012

1	REV:
1	OF
4	