



INSTALL CONCRETE FILLED BOLLARD (2 REQUIRED) SEE DETAIL DWG No. S-1004

VEHICLE ACCESS PAD MIN 250 THICK 20M @ 150 O.C. E.F. TRANSVERSE 15M @ 300 O.C. E.F. LONGITUDINAL

DISCHARGE CHAMBER ROOF SLAB: MIN 250 THICK 15M @ 300 O.C. E.F. E.W. PLUS BARS SHOWN TOP OF SLAB EL. VARIES FROM 234.500 AT EAST SIDE TO EL. 234.435 AT WEST SIDE c/w INSULATION & TOPPING SLAB SEE TOPPING SLAB DETAIL DWG No. S-1005

DRY POND PUMPING CHAMBER ROOF SLAB: MIN 250 THICK 15M @ 300 O.C. E.W., T&B PLUS BARS SHOWN c/w INSULATION & TOPPING SLAB SEE TOPPING SLAB DETAIL DWG No. S-1005

DAVIT SLEEVE c/w S.S. CAP (TYP) PROVIDE 5 TOTAL SEE DETAIL DWG No. S-1002

INTERMEDIATE STEP POST

INSULATED FLOOR HATCH BILCO TYPE KD DOUBLE LEAF (1 REQUIRED)

HANDHOLD (TYP.) PROVIDE 4 TOTAL SEE DETAIL 6, DWG. S-1004

MAIN FLOOR SLAB 250 MIN THICK 15M @ 250 O.C. T&B TRANSVERSE 15M @ 400 O.C. T&B LONGITUDINAL TOP OF SLAB EL. 233.000

1360 kg CAPACITY HAND OPERATED CHAIN HOIST ON MONORAIL TROLLEY HUNG FROM MONORAIL LOCATED AS SHOWN & MONORAIL HUNG FROM MAIN FLOOR SLAB

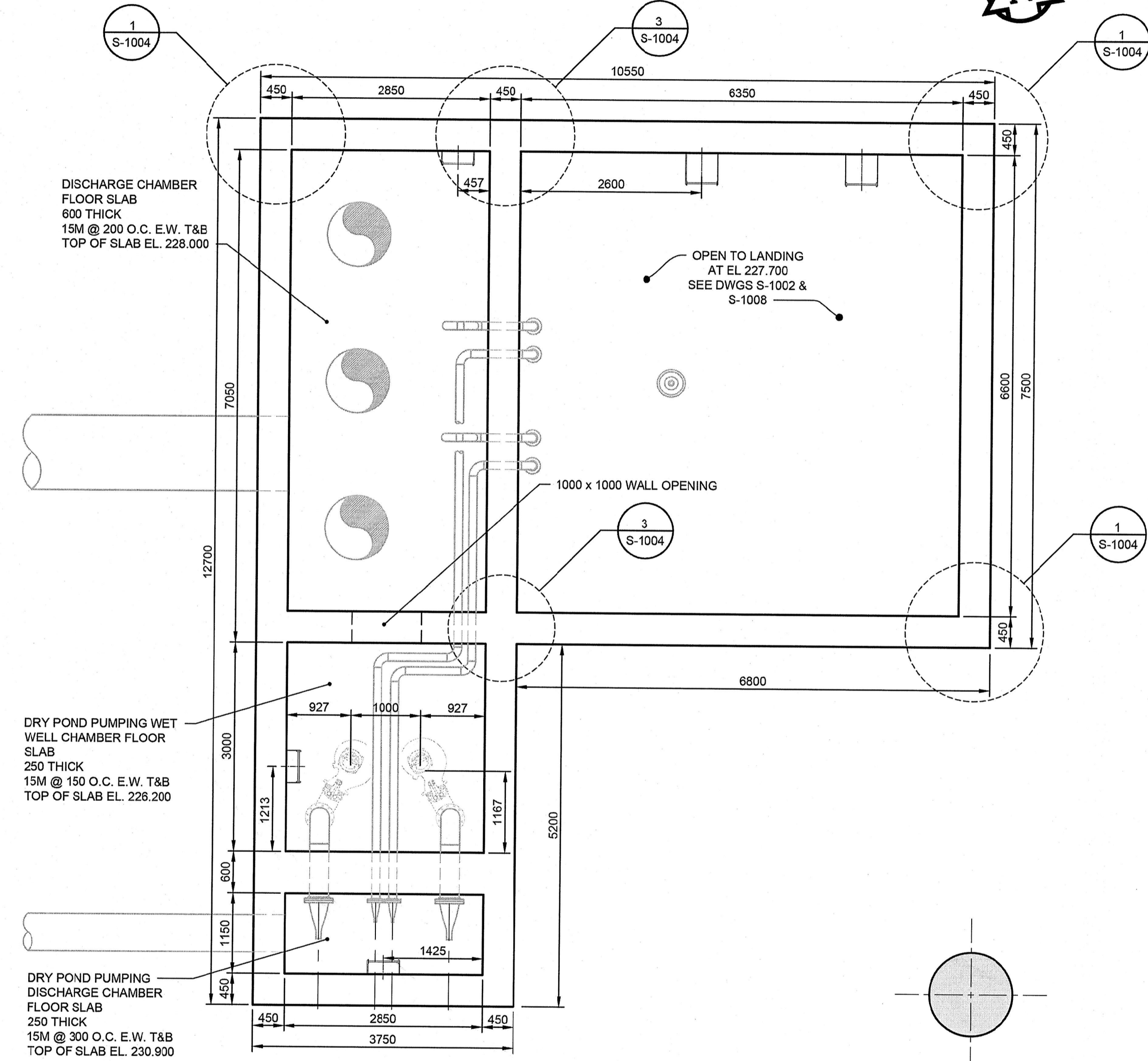
2 - 15M T&B, ALL AROUND RECESS FOR RAMPS

GENERATOR ROOM SLAB 250 THICK 15M @ 250 O.C. E.F. E.W. TOP OF SLAB EL. 233.000

GRADE BEAM SEE DETAIL 2, DWG. S-1004

CONCRETE BEAM SCHEDULE					
MARK	SIZE	TOP CONT. REINF	BOTTOM. CONT. REINF	10M STIRRUPS	REMARKS
B1	400 X 800	2 - 25M	1 LAYER OF 4 - 30M	200 O.C.	2-20M MID HEIGHT
B2 & B3	300 X 600	2 - 25M	1 LAYER OF 3 - 30M	250 O.C.	

CONCRETE CURB SCHEDULE					
MARK	WIDTH	HEIGHT	TOP CONT. REINF	BOTTOM. CONT. REINF	DOWELS
C1	400	200	2 - 15M		10M @ 200 O.C.
C2	400	400	2 - 15M	2 - 15M	10M @ 200 O.C.
C3	200	200	1 - 15M		10M @ 200 O.C.
C4	200	100	1 - 15M		10M @ 200 O.C.
C5	400	500	2 - 15M	2-15M BOTTOM & 2-15M MID HEIGHT	10M @ 200 O.C.



DISCHARGE CHAMBER FLOOR SLAB 600 THICK 15M @ 200 O.C. E.W. T&B TOP OF SLAB EL. 228.000

OPEN TO LANDING AT EL. 227.700 SEE DWGS S-1002 & S-1008

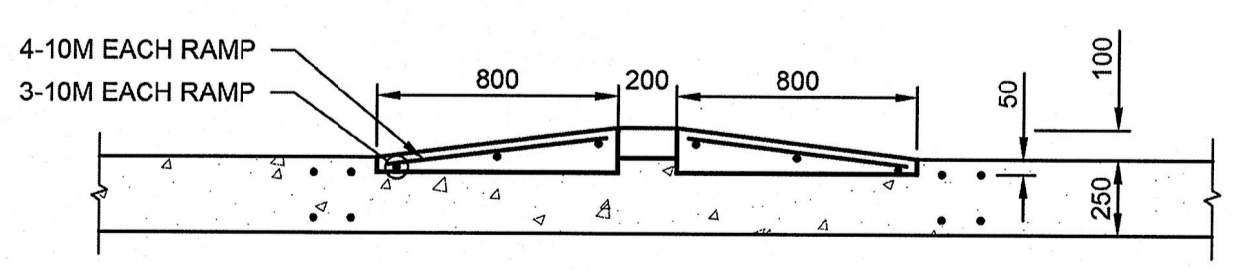
1000 x 1000 WALL OPENING

DRY POND PUMPING WET WELL CHAMBER FLOOR SLAB 250 THICK 15M @ 150 O.C. E.W. T&B TOP OF SLAB EL. 226.200

DRY POND PUMPING DISCHARGE CHAMBER FLOOR SLAB 250 THICK 15M @ 300 O.C. E.W. T&B TOP OF SLAB EL. 230.900

FLOOR PLAN DISCHARGE CHAMBER BOTTOM ELEVATION 228.000 0 1250 2500 1:50

PLAN MAIN FLOOR FRAMING ELEVATION ±233.000 0 1250 2500 1:50



7 RAMP AT DOOR TO GENERATOR ROOM THRU DOOR BETWEEN GENERATOR ROOM AND CONTROL ROOM S-1001

0 625 1250 1:25

LOCATION APPROVED UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES COMMITTEE DATE

NOTE: LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE. BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

B.M. ELEV.	NO.	REVISIONS	DATE	BY
	0	ISSUED FOR TENDER	13/10/15	Wjd

AECOM

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

DESIGNED BY: JAT
CHECKED BY: [Signature]
DRAWN BY: ADL
APPROVED BY: [Signature]
HOR. SCALE: AS NOTED
VERTICAL: AS NOTED
RELEASED FOR CONSTRUCTION BY: [Signature]
DATE

APEGM

Certificate of Authorization
AECOM Canada Ltd.
No. 4671 Date: 2013/10/15

ENGINEER'S SEAL
PROVINCE OF MANITOBA
BISWANGER
REGISTERED PROFESSIONAL ENGINEER
CONSULTANT DRAWING NO. 60273041-SHT-01-Con3-S-1001

THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT

PLESSIS ROAD TWINNING AND GRADE SEPARATION AT CN REDDITT SUBDIVISION CONTRACT 3

PUMPING STATION SUB-STRUCTURE SECTIONS AND DETAILS 1

CITY DRAWING NUMBER U238-2014-2331
SHEET 1 OF 10
S-1001

BID OPPORTUNITY NO. 712-2013