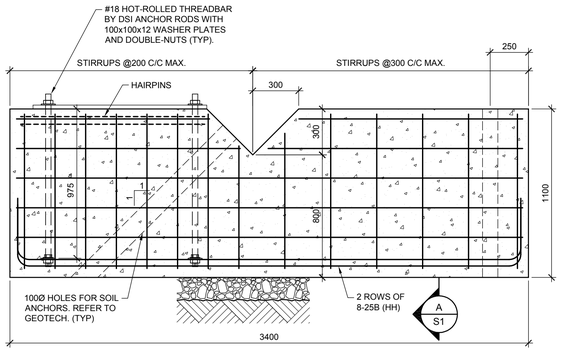
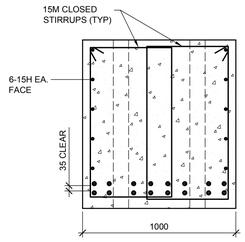
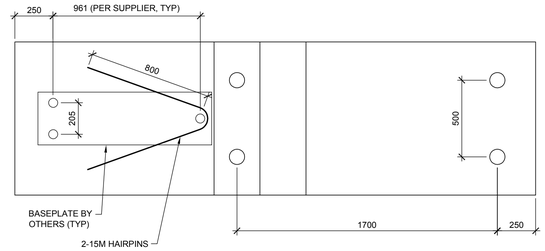


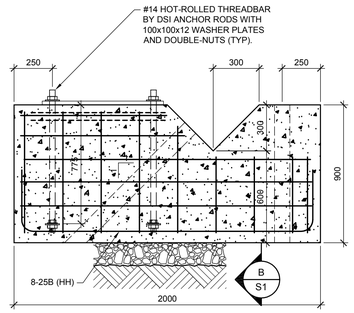
TS-1000-oA



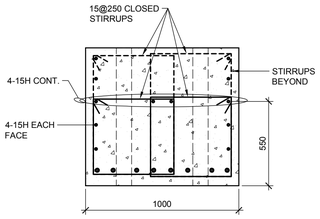
A
S1



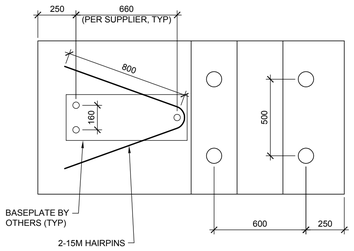
PLAN VIEW



TS-500-oA



B
S1



PLAN VIEW

GENERAL NOTES

1. TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE EXISTING STRUCTURE DURING CONSTRUCTION.
2. EXISTING CONDITIONS ARE ASSUMED. REPORT ANY INCONSISTENCIES TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE THESE DRAWINGS. ALL DIMENSIONS ARE IN MILLIMETERS.
3. ALL MATERIALS AND METHODS OF CONSTRUCTION MUST COMPLY WITH THE ONTARIO BUILDING CODE 2006, INCLUDING AMENDMENTS.
4. SUBMIT CONCRETE REINFORCING STEEL SHOP DRAWINGS FOR REVIEW BY THE CONSULTANT PRIOR TO FABRICATION. MAKE ALL FIELD MEASUREMENTS NECESSARY FOR FABRICATION AND ERECTION.
5. REVIEW OF SHOP DRAWINGS IS ONLY FOR GENERAL CONFORMITY WITH STRUCTURAL CONTRACT DOCUMENTS. COMMENTS MADE ON THE SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE STRUCTURAL CONTRACT DOCUMENTS, NOR DO THEY AUTHORIZE ANY CHANGES TO THE CONTRACT. REVIEW OF A SPECIFIC ITEM SHALL NOT INCLUDE REVIEW OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. THE CONTRACTOR'S RESPONSIBILITIES INCLUDE ALL QUANTITIES, DETAIL DIMENSIONS, FIELD MEASUREMENTS, FABRICATION PROCESS, MEANS, METHODS, SEQUENCES AND PROCEDURES OF CONSTRUCTION, COORDINATION OF WORK WITH ALL TRADES AND PERFORMING ALL WORK IN A SAFE AND SATISFACTORY MANNER. THE REVIEW OF SHOP DRAWINGS DOES NOT IMPLY ANY CHANGE IN ANY OTHER CONSULTANTS' OR PROFESSIONALS' RESPONSIBILITIES RELATED TO DESIGN OF SPECIFIC ITEMS (SUCH AS STRUCTURAL STEEL CONNECTIONS, STEEL JOISTS, PRECAST ELEMENTS, ETC.).

   AFTER REVIEW, THE DRAWINGS WILL BE STAMPED AND RETURNED TO SHOW ONE OF THE FOLLOWING:
   - NOT REVIEWED - SHOWS WORK WHICH IS NOT WITHIN THE SCOPE OF STRUCTURAL CONSULTING SERVICES.
   - REVIEWED - RELEASED FOR FABRICATION.
   - NOTED - RELEASED FOR FABRICATION AFTER REVISIONS NOTED ARE MADE. SUBMIT FINAL RECORD PRINT.
   - RESUBMIT - CORRECT AND RESUBMIT FOR REVIEW PRIOR TO FABRICATION.
6. THE CONTRACTOR MUST PROVIDE TEST REPORTS FOR CONCRETE. ALL REPORTS MUST BE PREPARED BY AN INDEPENDENT INSPECTION AND TESTING AGENCY.
7. NOTIFY THE AGENCY RESPONSIBLE FOR GENERAL REVIEW PRIOR TO ALL CONCRETE POURS.
8. ALL NEW FOOTINGS SHALL BEAR ON UNDISTURBED SOIL CAPABLE OF SUSTAINING 290 kPa (SLS) AND 430 kPa (ULS). BEARING CAPACITY MUST BE APPROVED IN WRITING, PRIOR TO PLACING NEW FOOTINGS, BY A GEOTECHNICAL ENGINEER RETAINED BY THE CONTRACTOR. THE GEOTECHNICAL ENGINEER MUST CARRY LIABILITY INSURANCE TO MINIMUM REQUIRED BY P.E.O.
9. CONCRETE SPECIFIED COMPRESSIVE STRENGTH AT 28 DAYS IS 40 MPa. PROVIDE 4-7% ENTRAINED AIR.
10. REINFORCING STEEL: G30.18M-GRADE 400R.
11. CONCRETE COVER TO REINFORCING STEEL:
    - CONCRETE PLACED AGAINST EARTH: 75
    - EXPOSED CONCRETE: 50
12. ANCHOR RODS: CSA G30.18M92 (Fy/Fult = 517/690 MPa, HOT-DIPPED GALVANIZED)
13. LOADS CONSIDERED IN DESIGN (PER TRUMER SCHUTZBAUTEN FOR REINFORCED, RIGID SYSTEMS)

	SLS	ULS
TS-1000-oA	V = 473 kN	Vf = 710 kN
	M = 1119 kNm	Mf = 1678 kNm
TS-500-oA	V = 257 kN	Vf = 386 kN
	M = 362 kNm	Mf = 543 kNm

14. SOIL ANCHORS (DESIGNED BY OTHERS):
    MAXIMUM SERVICE TENSILE FORCE: 480 kN

REGISTERED PROFESSIONAL ENGINEER
2013.01.09
S. W. CAIRNS
PROVINCE OF ONTARIO

212sS013A

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mf roll number	rev no	date	particulars	dwn / chkd	appd

GLEN ACCESS ROAD
ROCK FALL PROTECTION
FOUNDATION DETAILS
TS-500-oA / TS-1000-oA

ONTARIO POWER GENERATION — Hydro-Thermal Operations ... Plant Group

dwn: SWC	designed by: SWC	FOR ORIGINAL SIGNATURES SEE REVISION 00.
chkd: ADD	design reviewed by: AAC	
date: yr/month/day 2012/11/19	authorized by:	
scale: 1:20	CAD file type: DWG	

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dwg no NF20-D1E-16120-0001 sht no 00 rev

CLASS No.

A1 (594 x 841)

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