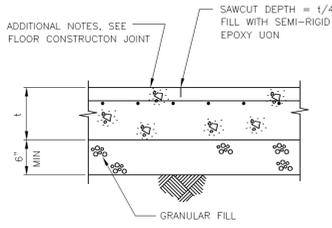


CONCRETE REINFORCING SPLICE AND COVER TABLE

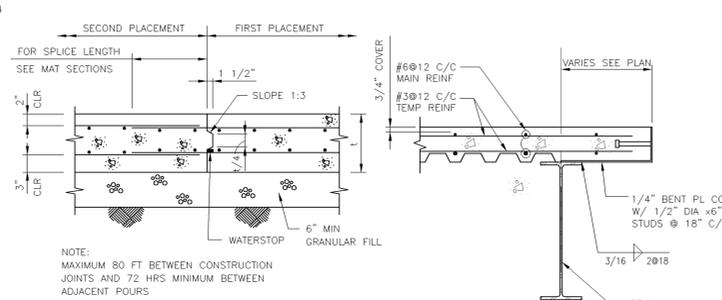
CLASS "B"	SPLICE LENGTHS				DEVELOPMENT LENGTH				MINIMUM CONCRETE COVER			
	ALL BARS EXCEPT TOP BARS		TOP BARS (HORIZ BARS WITH MORE THAN 12" OF CONC BELOW)		ALL BARS EXCEPT TOP BARS		TOP BARS (HORIZ BARS WITH MORE THAN 12" OF CONC BELOW)		CAST AGAINST EARTH	EXPOSED TO EARTH OR WEATHER	INTERIOR	
	INCHES		INCHES		INCHES		INCHES				SLABS & WALLS	BEAMS & COLUMNS
f'c (PSI)	3000	4000	3000	4000	3000	4000	3000	4000	INCHES	INCHES	INCHES	INCHES
#3	16	16	21	18	13	12	16	14	3.00	1.50	0.75	1.50
#4	22	19	28	24	17	15	22	19	3.00	1.50	0.75	1.50
#5	27	23	35	30	21	18	27	23	3.00	1.50	0.75	1.50
#6	43	37	56	48	33	29	43	37	3.00	2.00	0.75	1.50
#7	63	54	81	71	48	42	63	54	3.00	2.00	0.75	1.50
#8	72	62	93	81	55	48	72	62	3.00	2.00	0.75	1.50
#9	81	70	105	91	62	54	81	70	3.00	2.00	0.75	1.50
#10	89	77	116	101	69	60	89	77	3.00	2.00	0.75	1.50
#11	98	85	128	111	76	66	98	85	3.00	2.00	0.75	1.50

NOTES:

- DEVELOPMENT AND SPLICE LENGTHS SHOWN ARE BASED ON THE TABLE PROVIDED IN ACI 318-02 SECTION 12.2.2 AND APPLY UNLESS OTHERWISE NOTED ON PLANS AND DETAILS
- ALL LENGTHS AND COVERS ARE GIVEN IN INCHES UNLESS OTHERWISE NOTED
- TABULAR VALUES FOR DEVELOPMENT AND SPLICE LENGTHS ARE BASED ON NORMAL WEIGHT CONCRETE, GRADE 60 UNCOATED REINFORCING, CLEAR SPACING OF BARS EQUAL TO OR GREATER THAN 2 x BAR DIA OR 1 1/2", WHICHEVER IS GREATER, AND CLEAR COVER EQUAL TO OR GREATER THAN 1.0 x BAR DIA OR 3/4", WHICHEVER IS GREATER
- TOP BARS ARE HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12" OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR. HORIZONTAL BARS IN WALLS ARE CONSIDERED AS TOP BARS. VERTICAL BARS MAY BE CONSIDERED AS OTHER BARS
- SPLICES SHALL NOT BE MADE AT POINTS OF MAXIMUM STRESS AS DETERMINED BY THE ENGINEER

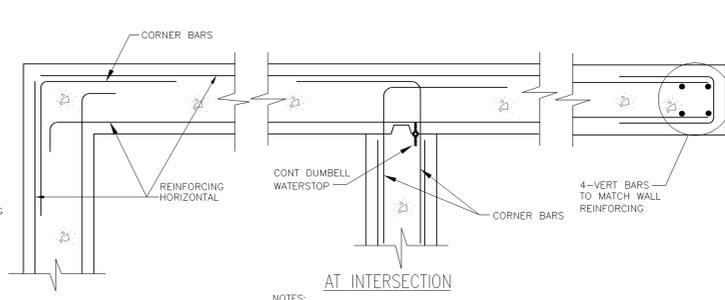


TYPICAL SLAB ON GROUND CONTROL JOINT

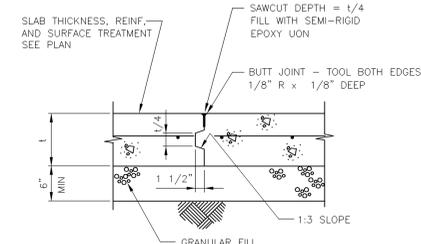


TYPICAL MAT CONSTRUCTION JOINT

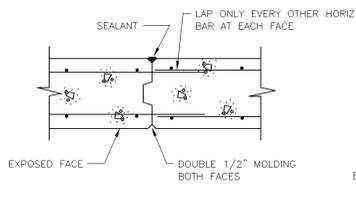
TYPICAL FLOOR EDGE DETAIL



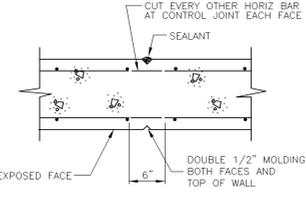
COLUMN ISOLATION JOINT DETAILS



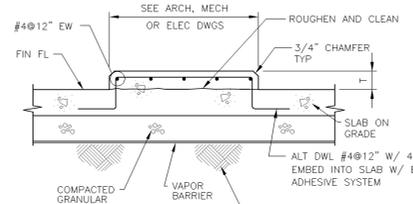
TYPICAL SLAB ON GROUND CONSTRUCTION JOINT



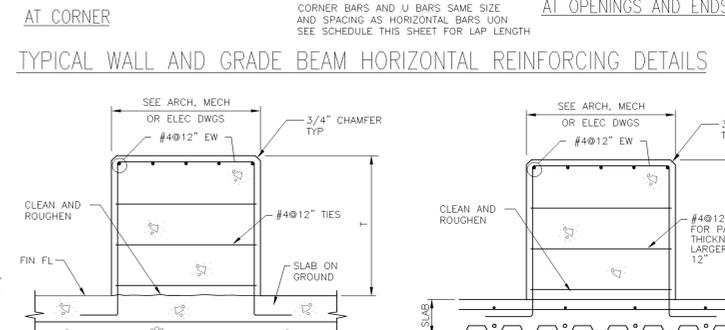
TYPICAL RETAINING WALL CONSTRUCTION JOINT DETAIL



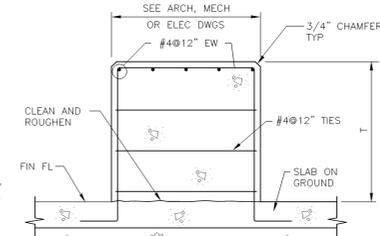
TYPICAL RETAINING WALL CONTROL JOINT DETAIL



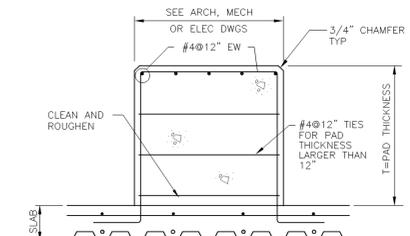
TYPE I



TYPICAL WALL AND GRADE BEAM HORIZONTAL REINFORCING DETAILS



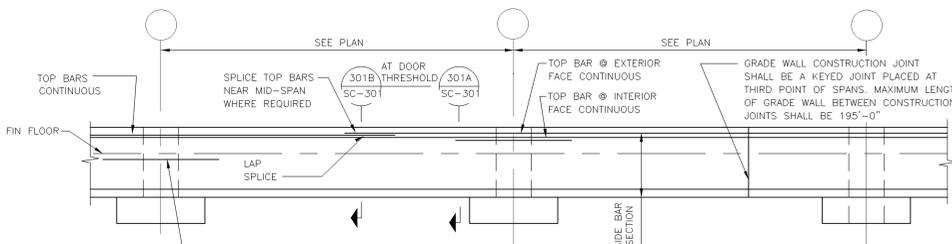
TYPE II



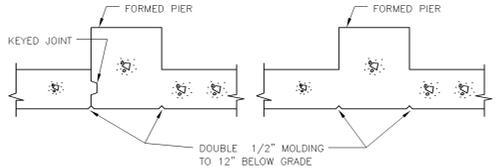
EQUIP PAD ON ELEVATED SLAB DETAIL

- NOTES:**
- EQUIPMENT PAD TO BE 4" LARGER THAN EQUIP BASE ON ALL SIDES
 - FOR EQUIP PAD SIZE AND LOCATION SEE ARCH, MECH OR ELEC DWGS
 - COORDINATE AND INSTALL ANCHOR BOLTS AND OTHER EMBEDDED ITEMS PER EQUIPMENT MANUFACTURER REQUIREMENTS
 - T = THICKNESS OF HOUSEKEEPING PAD SEE ARCH AND MECH DWGS.

TYPICAL EQUIPMENT PAD



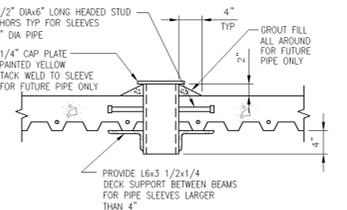
TYPICAL GRADE BEAM ELEVATION



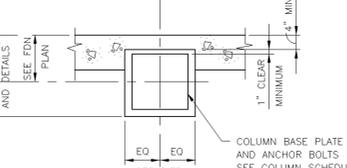
TYPICAL GRADE WALL DETAILS

(MAXIMUM LENGTH OF CONCRETE PLACED TO BE 80'-0")

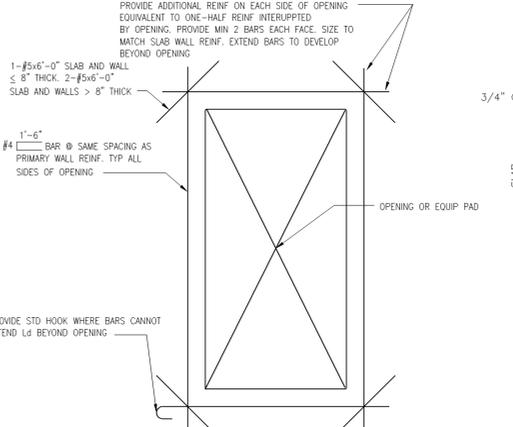
TYPICAL FLOOR SLEEVES



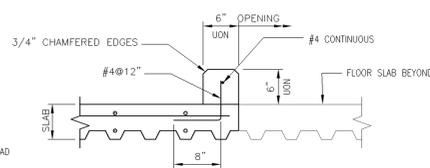
TYPICAL COLUMN POCKET DETAIL



TYPICAL COLUMN POCKET DETAIL

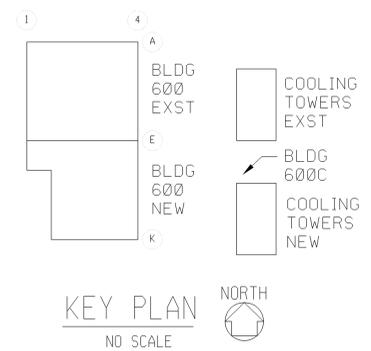


TYPICAL REINF AT OPENINGS IN WALLS AND SLABS



TYPICAL CURB DETAIL

- LEGEND:**
- NEW CONSTRUCTION
 - EXISTING CONSTRUCTION



This drawing shall not be used for construction purposes until the seal and signature of the responsible registrant appears on the drawing, and proper permit forms and related fees are transmitted by the Owner, Owner's Agent or Contractor to the Authority Having Jurisdiction.

BROOKHAVEN NATIONAL LABORATORY

UNDER CONTRACT WITH
UNITED STATES DEPARTMENT OF ENERGY
PLANT ENGINEERING DIVISION
UPTON, NEW YORK 11973

JOB NO. SHEET NO. REVISION DATE DWG. APPD. DA

JOB TITLE: CENTRAL CHILLED WATER FACILITY PHASE II

DWG. TITLE: BLDG 600 SECTIONS & DETAILS (CONC)

SCALE: AS NOTED

DATE: 11/2005

APP'D. BY: WK

BLDG. NO.: 600

SHEET OF: SC-301

Approved By: [Signature]

Project Manager: [Signature]

Project Engineer/Architect: [Signature]

Project No.: