

\* COORDINATE DIMENSIONS AND ANGLE SIZE

(2)-#5 TOP AND

DEPRESS TOP OF

OPNG. SEE "ELEV.

DOOR SILL DET."

#5 AT 12"o.c.

HORIZ. —

Z NOM. CMU SHAFT WAL

THICKNESS + 2" MIN.

#5 AT 12"0.c. TOP

AND BOT. EA. WAY

WALL AT DOOR

#5 AT 18"0.c.

VERT.

\* L 3/8" MIN. THICKNESS x CONT. W/

#5 DOMELS

VERT. <u>3'-6"</u>

SUPPLIER

**WATERSTOP** 

SECTION

/ NO SCALE

AT 18"0.C.

3/4" DIAM, EXP. BOLT ANCHORS AT

ELEVATOR DOOR

SILL DETAIL

IF REQUIRED, 2'-6"x2'-6" BLOCK-OUT

CONC. AFTER ELEV. PISTON SLEEVE

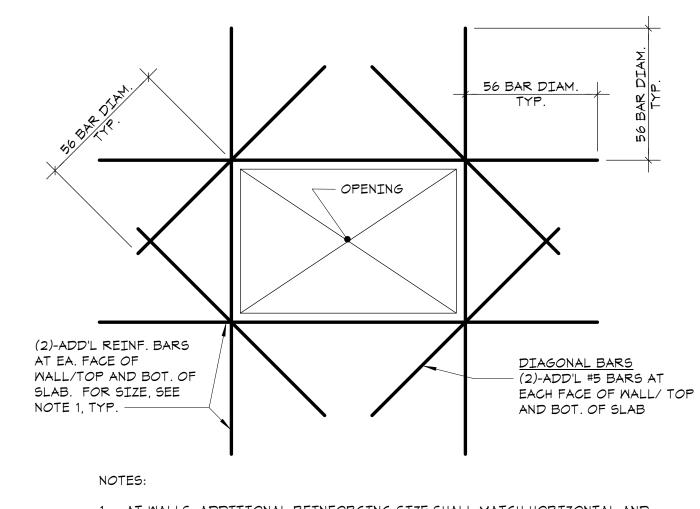
IS INSTALLED. COORD. W/ ELEV.

AT CENTER OF PIT. INFILL W/

2'-0"o.c. (KWIK-BOLT 11I BY HILTI OR WITH ELEVATOR SUPPLIER.

\_\_\_\_ 2x4 KEY

-#5 x CONT. NOSING BAR



1. AT WALLS, ADDITIONAL REINFORCING SIZE SHALL MATCH HORIZONTAL AND VERTICAL REINFORCING. AT SLABS USE #5 BARS.

- SLAB ON METAL DECK,

- CONT. METAL DECK

CLOSURE PLATE AT

WITH SUPPLIER

ELEVATOR DOOR (STD.

- CAST CONC. OVER WALL

- DOOR SILL ANGLE, COORD.

POUR STOP BEYOND)

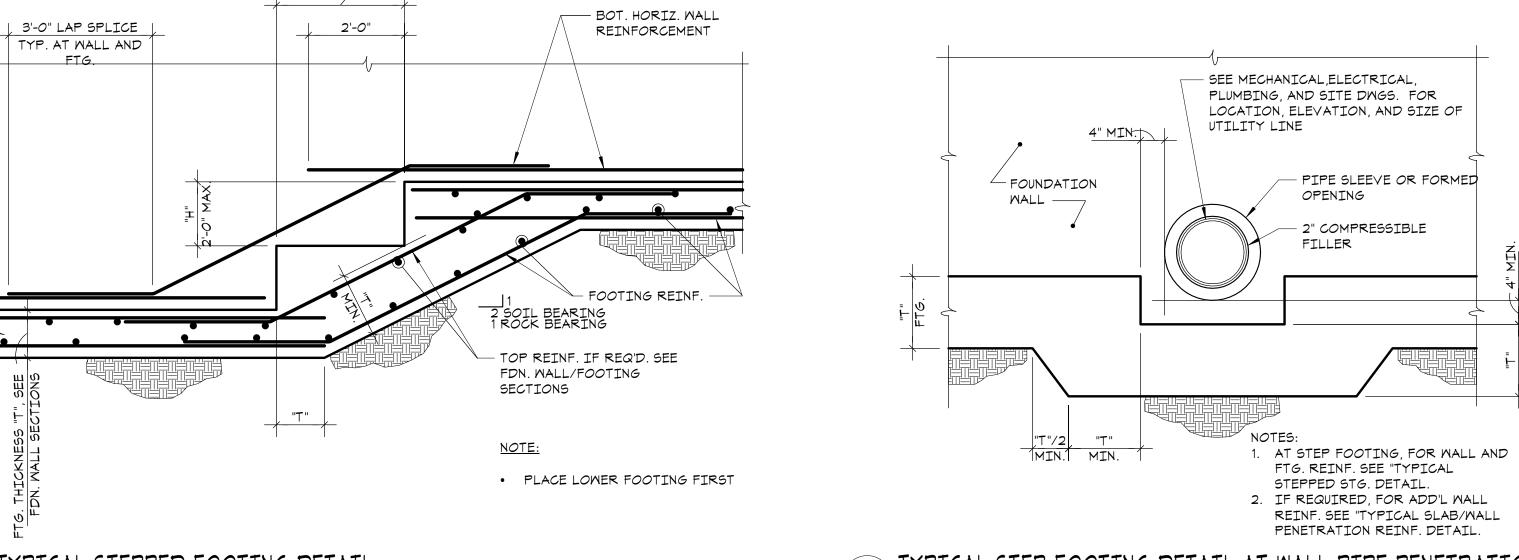
ORIENTATION VARIES

- CMU WALL BEYOND DOOR

- 2. THIS DETAIL APPLIES AT ALL OPENINGS 12"X12" AND LARGER. DETAIL IS SIMILAR AT ALL CIRCULAR OPENINGS 12" AND LARGER.
- 3. COORDINATE ALL OPENING SIZES AND LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.

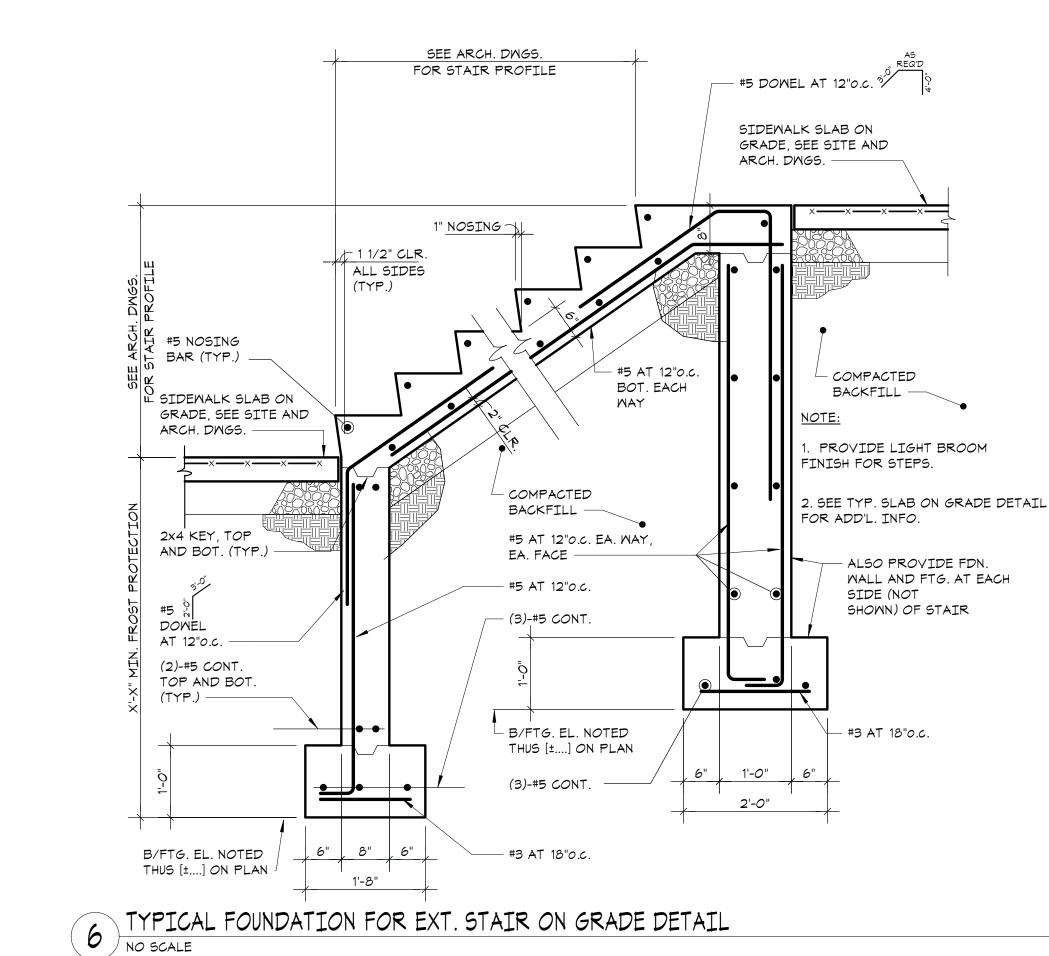
TYPICAL SLAB/WALL PENETRATION REINFORCING DETAIL 3 TYPICA

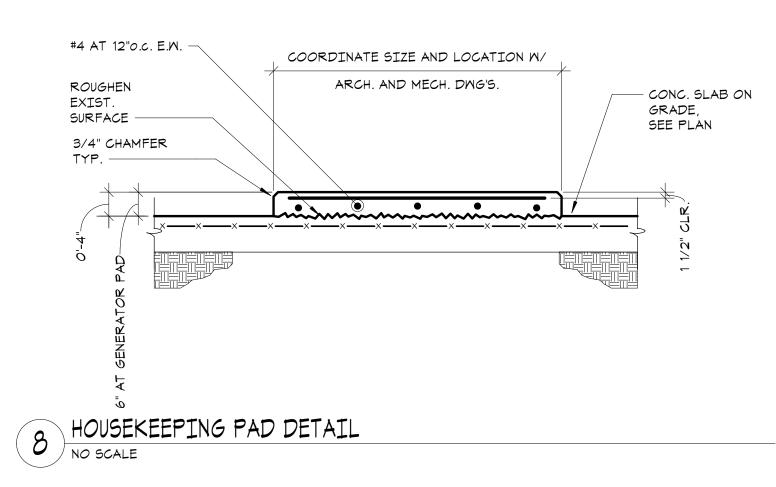
FTG.

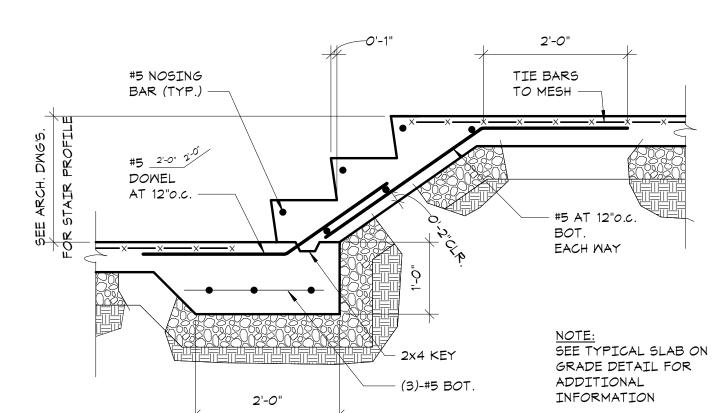


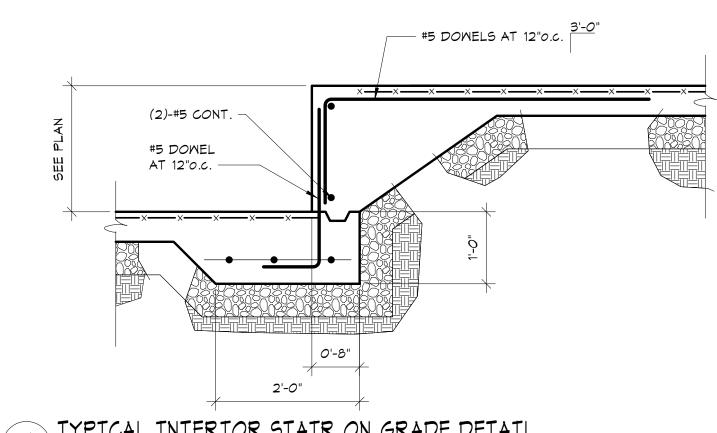
— 2"H" MIN. FOR SOIL BRG., "H" FOR ROCK BRG.

TYPICAL STEP FOOTING DETAIL AT WALL PIPE PENETRATION 4 NO SCALE









TYPICAL INTERIOR STAIR ON GRADE DETAIL

NO SCALE

SIDES OF TO PIT W	P AND BOT. F BLOCK OUT ALLS ———	, EXTEND	6" MIN.	FOR LOC REINF. D NOTE: FOR WAT ARCH. DV	#5	SLAB BOT. IT CONC. PITS, SEE	1-O-I-	- 5A TYPI	CAL SLAB AT E	SE SC DE	MU ELEVATOR SHAFT, EE REINFORCING CHEDULE AND TYPICAL ETAILS, DWG S401
	COMPR	ESSI <i>O</i> N			OF EMBEL	DMENT AND	SPLICE LENG		c = 4000 psi)		
	EMBED.	LAP	EMBEDMENT LENGTH LAP SPLICE LENGT				EMBEDME	NT LENGTH	CE LENGTH	<u>NOTES:</u> 1. THIS SCHE	
BAR			TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	THE FOLLO
SIZE	LENGTH	SPLICE	CATEGORY	CATEGORY	CATEGORY	CATEGORY	CATEGORY	CATEGORY	CATEGORY	CATEGORY	pcf. TENSI FOLLOMS:
		LENGTH	SEE NOTE 1	SEE NOTE 1	SEE NOTE 1	SEE NOTE 1	SEE NOTE 1	SEE NOTE 1	SEE NOTE 1	SEE NOTE 1	COVER NO MINIMUM;
			<u> </u>	1	<del>                                     </del>	<del>                                     </del>	<u> </u>	<del>                                     </del>	<del>                                     </del>	+	

- CMU SHAFT. WALL FOR REINF. SEE

SCHEDULE ON "TYPICAL CONCRETE

MASONRY WALL REINFORCEMENT

CMU WALL REINFORCING

- OMIT SHELF FOR ELEVATOR AT

ACADEMIC BUILDING BASEMENT, REFER

TO S100 FOR HYDROSTATIC SLAB INFO

- #5 DOWELS AT 18"0,c.

PROVIDE DOWELS BETWEEN FOUNDATION AND

NOTE: SEE ARCH DWG'S

FOR LOCATION OF

ELEVATOR SHAFT, FOR

HDR/TRIMMER BEAMS,

USE 6"

CMU WALL EQUAL TO SIZE AND SPACING OF

DETAIL"

- #5 x CONT.

COMPACTED

BACKFILL

PVC FLAT DUMBBELL

MATERSTOP STRIP, TYP.

BAR SIZE	COMPRESSION		TENSION (f'c = 3000 psi)								TENSION (f'c = 4000 psi)								
	EMBED. LENGTH	LAP SPLICE LENGTH	EMBEDMENT LENGTH				LAP SPLICE LENGTH				EMBEDMENT LENGTH				LAP SPLICE LENGTH				
			TOP BARS  CATEGORY  SEE NOTE 1		OTHER BARS  CATEGORY  SEE NOTE 1		TOP BARS  CATEGORY  SEE NOTE 1		OTHER BARS  CATEGORY  SEE NOTE 1		TOP BARS  CATEGORY  SEE NOTE 1		OTHER BARS  CATEGORY  SEE NOTE 1		TOP BARS  CATEGORY  SEE NOTE 1		OTHER BARS  CATEGORY  SEE NOTE 1		
																			I
			#3	9"	12"	22"	33"	17"	25"	29"	43"	23"	33"	19"	28"	15"	22"	25"	37"
#4	11"	15"	29"	43"	22"	33"	38"	56"	29"	43"	25"	37"	19"	29"	33"	49"	25"	38"	
#5	14"	19"	36"	54"	28"	42"	47"	71"	37"	55"	31"	47"	24"	36"	41"	62"	32"	47"	
#6	17"	23"	43"	65"	33"	50"	56"	85"	43"	65"	37"	56"	29"	43"	49"	73"	38"	56"	
#7	20"	27"	63"	94"	48"	72"	82"	123"	63"	94"	54"	81"	42"	63"	71"	106"	55"	82"	
#8	22"	30"	72"	107"	55"	83"	94"	140"	72"	108"	62"	93"	48"	72"	81"	121"	63"	94"	
#9	25"	34"	81"	121"	62"	93"	106"	158"	81"	121"	70"	105"	54"	81"	91"	137"	71"	106"	
#10	28"	39"	91"	136"	70"	105"	119"	177"	91"	137"	79"	118"	61"	91"	103"	154"	80"	119"	
#11	31"	43"	101"	151"	78"	116"	132"	197"	102"	151"	87"	131"	67"	101"	114"	171"	88"	132"	
#14	38"	NP	121"	181"	93"	140"	NP	NP	NP	NP	105"	157"	81"	121"	NP	NP	NP	NP	
#18	50"	NP	161"	242"	124"	186"	NP	NP	NP	NP	140"	209"	108"	161"	NP	NP	P NP	NP	
SEE NOTE 2	LCE	LCS	LTE				LTS			LTE				LTS					

- 1. THIS SCHEDULE INCLUDES EMBEDMENT AND SPLICE LENGTHS AS PER ACI 318-02 AND SATISFY THE PROJECT REQUIREMENTS AND THE FOLLOWING CRITERIA. SPECIFIED YIELD STRENGTH OF REINFORCEMENT, Fy = 60,000 psi NORMAL WEIGHT CONCRETE, W = 150 pcf. TENSION EMBEDMENT AND LAP SPLICE LENGTHS ARE DIVIDED INTO TWO CATEGORIES WHICH SHALL BE APPLIED AS FOLLOWS: CATEGORY 1: CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN THE BAR DIAMETER, CLEAR COVER NOT LESS THAN THE BAR DIAMETER, AND STIRRUPS OR TIES THROUGHOUT THE DEVELOPMENT NOT LESS THAN THE CODE MINIMUM; OR, CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED, NOT LESS THAN 2x THE BAR DIAMETER AND CLEAR COVER NOT LESS THAN THE BAR DIAMETER. CATEGORY 2: ALL OTHER CASES.
- . NOTATION USED IN SECTION AND DETAILS FOR VARIOUS EMBEDMENT AND SPLICE LENGTH REREQUIREMENTS. 3. USE COMPRESSION LAP SPLICE LENGTH (LCS) AT ALL COMPRESSION MEMBER SPLICE LOCATIONS NOT SPECIFICALLY DETAILED AND UNLESS INDICATED OTHERWISE ON PLANS OR DETAILS. USE TENSION SPLICE FOR ALL OTHER SPLICES (UNLESS OTHERWISE NOTED ON DWG'S). 4. THE STANDARD COMPRESSION LAP SPLICE IS (0.0005 x REINFORCED YIELD STRENGTH x THE BAR DIAMETER). THE STANDARD TENSION LAP SPLICE CLASS B IS 1.3 x THE DEVELOPMENT LENGTH. THE CONTRACTOR MAY SUBMIT LESSER SPLICE LENGTHS FOR
- REVIEW AND APPROVAL AT THE SAME TIME PROVIDING THE FOLLOWING INFORMATION. A DETAILS PREPARED AND SUBMITTED BY THE CONTRACTOR INDICATING LOCATION AND PROPOSED LAYOUT OF REBARS AND LENGTH OF SPLICES. B WHERE THE SIZE AND NUMBER OF TIES OR SPIRALS PERMITS THE REDUCTION OF LAP LENGTH, THOSE BARS SHALL BE INDICATED ON THE DETAILS.
- C WHERE COMPUTED STRESS VALUES PERMIT THE REDUCTION OF LAP LENGTH, COMPUTATIONS SHALL BE SUBMITTED FOR D THE APPLICABLE SECTION OF THE ACI 318-95 CODE PERMITTING THE LESSER SPLICE LENGTH SHALL BE INDICATED ON THE
- 5. TOP BARS ARE HORIZONTAL BARS PLACED SO THAT MORE THAN 12" OF CONCRETE IS CAST ON THE MEMBER BELOW THE BAR. 6. WHERE BARS OF DIFFERENT SIZE ARE TO BE SPLICED, THE SPLICE LENGTH FOR ALL BARS SHALL BE THAT REQUIRED FOR THE
- 7. "NP" INDICATES NOT PERMITTED. BARS LARGER THAN NO. 11 SHALL NOT BE SPLICED EXCEPT AS FOLLOWS: TO #11 BARS IN COMPRESSION. USE LARGER OF THE DEVELOPMENT LENGTH OF THE LARGER BAR OR THE SPLICE LENGTH OF THE SMALLER BAR (51" FOR #14 AND 68" FOR #18).

Engin'r / Checked AS NOTED TM / EM Sheet Number

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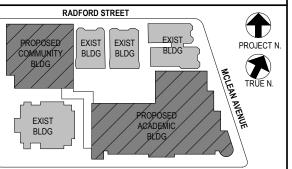
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No. Date

Sheet Title

4 11/01/21 ISSUE FOR BID 3 07/14/21 CONSTRUCTION DOCS - NYSED 2 12/15/20 DESIGN DEVELOPMENT 1 08/31/20 SCHEMATIC DESIGN

**FOUNDATION** SCHEDULES AND TYPICAL DETAILS

Job No. 20142.00 10/30/2020 Scale