STRUCTURAL NOTES

SOIL PRESSURE : ASSUMED AT 2000 PSF.

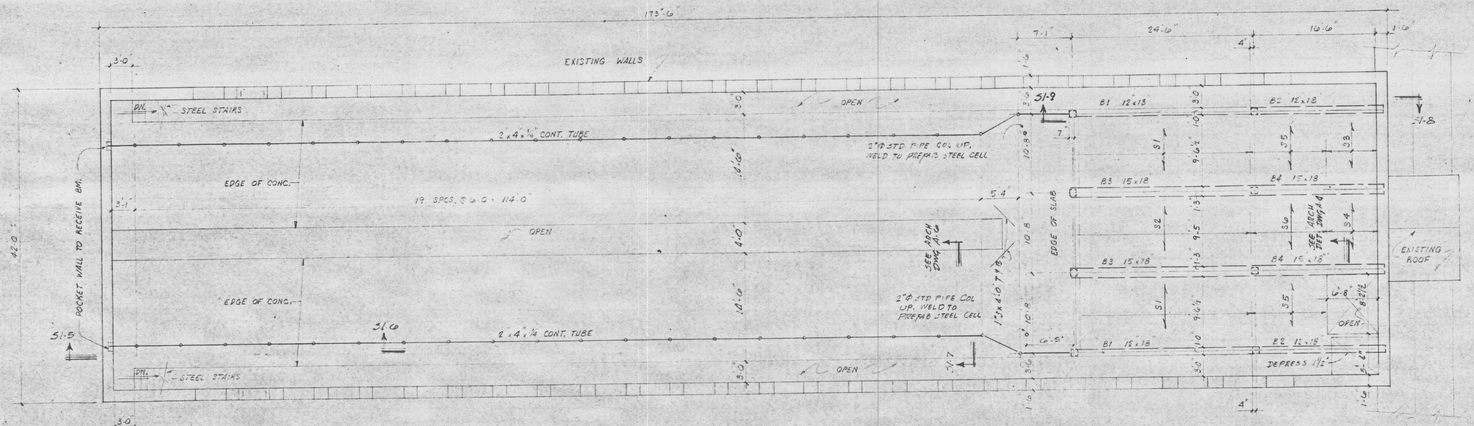
LIVE LOAD : CELL BLOCKS 40 PSF; INMATE AND OFFICER'S CORRIDORS 60 PSF; STORAGE AND RECREATION AREA AND STAIRS 100 PSF. NEW CEILING LOAD ON EXISTING TRUSSES 7 PSF.

CONCRETE : PRESCRIPTION CONCRETE D.C. CODE MAX. SLUMP 5 f'_c = 3000 psi.

REINFORCING STEEL: ASTM A-615 GRADE 60 (TIES & STIRRUPS GRADE 40) WWM A-185.

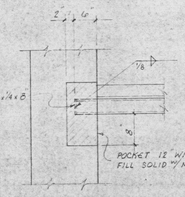
STRUCTURAL STEEL: AISC SPECS AND D.C. BUILDING CODE ASTM A-36. WELDING PER D.C. CODE AND AWS STANDARDS.

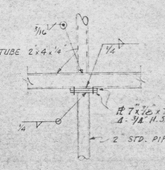
COMPACTED FILL: SELECTED MATERIAL PLACED AND COMPACTED IN ACCORDANCE WITH AASHO T-99.

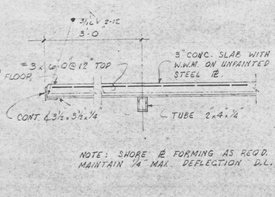


SECOND FLOOR FRAMING PLAN 1/4"=1'-0"

1. FLOOR SLAB TO BE 3" CONC. OVER ¾" R. OF PREFAB CELL UNITS UNLESS NOTED.

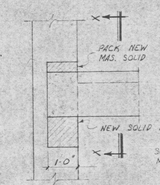




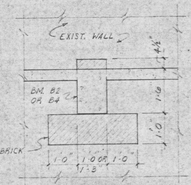


NOTE: SHORE & FORMING AS REQ'D. TO MAINTAIN ¼ MAX. DEFLECTION ALL.

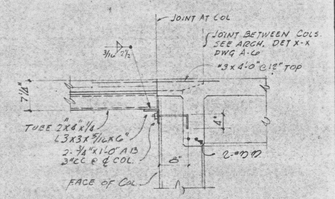
SECTION S1-5 ¾"=1'-0"

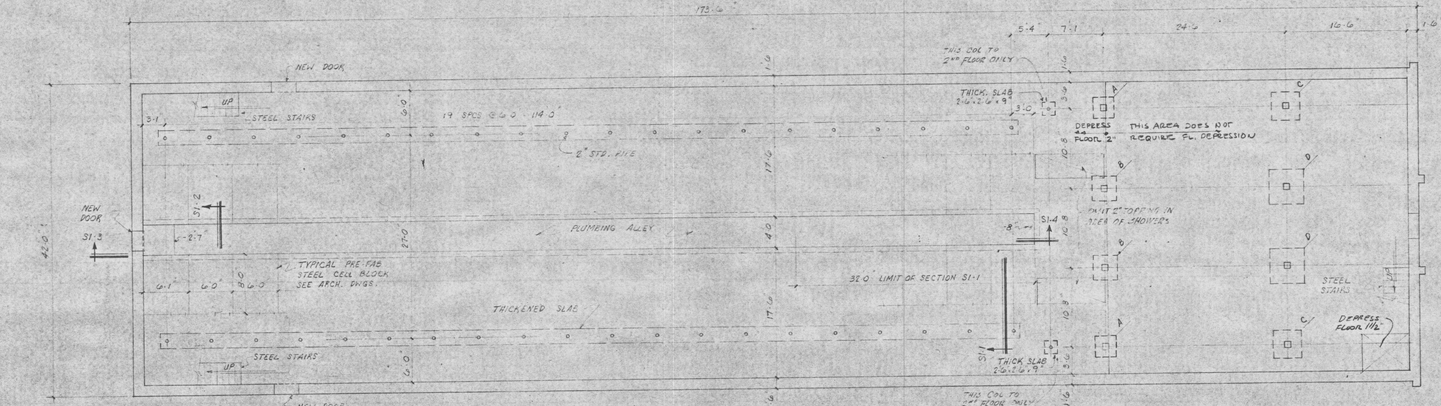


SECTION S1-6 ¾"=1'-0"



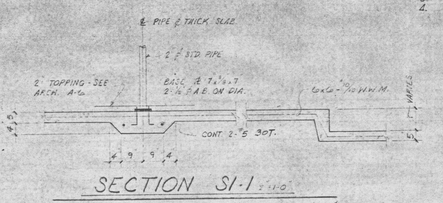
SECTION S1-7 ¾"=1'-0"



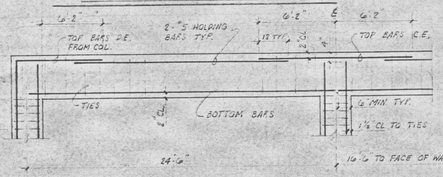


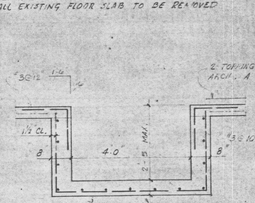
FOUNDATION & FLOOR PLAN 1/8"=1'-0"

1. FLOOR SLAB TO BE 5" CONC. W/ 6x6 - 4/0 W.W.M. OVER 5" GRAVEL.
2. PROVIDE 2" TOPPING OVER STRUCTURAL SLAB W/ 2x2 #16 W.W.M.
3. DEPTH OF TRENCH GIVEN BELOW TOP OF TOPPING.
4. ALL EXISTING FLOOR SLABS TO BE REMOVED

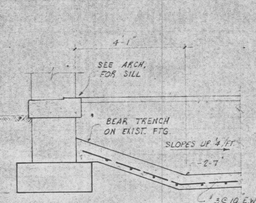


SECTION S1-1 ½"=1'-0"

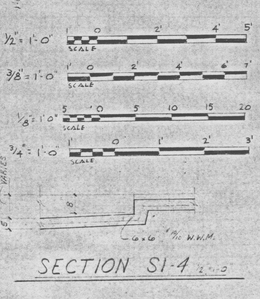




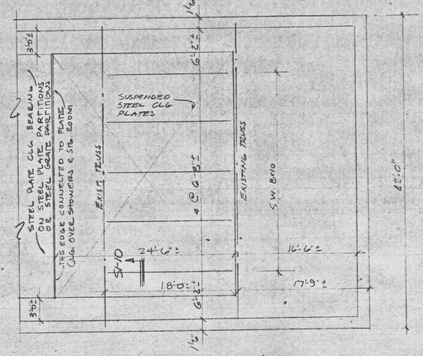
SECTION S1-2 ½"=1'-0"



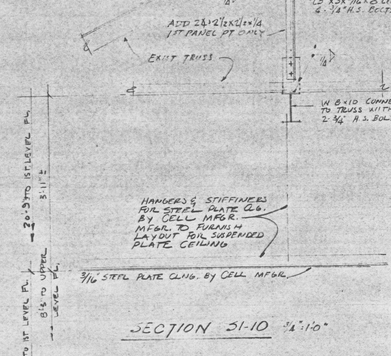
SECTION S1-3 ½"=1'-0"



SECTION S1-4 ½"=1'-0"



PLAN OF CEILING FRAMING ⅛"=1'-0"



SECTION S1-8 ½"=1'-0"

SECTION X-X ½"=1'-0"

SECTION S1-9 ¾"=1'-0"

SECTION S1-10 ¾"=1'-0"

COLUMN SCHEDULE

	COL.	A	B	C	D
COLUMN	LOAD	24" 12	11" 30	37" 21	13" 45
	SIZE	12" x 12"	12" x 12"	12" x 12"	12" x 12"
	REINF.	4 - #7	4 - #6	4 - #9	4 - #6
	TIES	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"
FOOTING	SIZE	3'0 x 3'0	4'6 x 4'0	3'6 x 3'0	5'0 x 5'0
	DEPTH	12"	12"	12"	12"
	REINF. EW	3 - #4	5 - #4	4 - #4	6 - #5

SLAB SCHEDULE

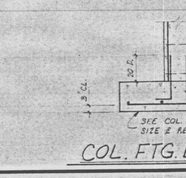
MARK	DEPTH	REINFORCING BOTTOM	REINFORCING TOP	REINFORCING END	DETAIL	REMARKS
S1	4½	#3@8"	#3@10"	DE		
S2	4½	#3@9"	#3@7"	EE		
S3	4½	#3@8"	#3@10"	FL	CANT.	ALT. TOP BARS WITH S-4
S4	4½	#3@8"	#3@10"	EE		Do WITH S-3
S5	4½	#3@8"	#3@11"	FL	CANT.	Do WITH S-6
S6	4½	#3@9"	#3@11"	EE		Do WITH S-5

NOTE: SLAB TO HAVE TEMP. STEEL #3@12"

SLAB DETAIL ¾"=1'-0"

BEAM SCHEDULE

MARK	SIZE W	SIZE D	REINFORCING BOTTOM	REINFORCING TOP	REINFORCING D.E.	REINFORCING TOP C.E.	#3 TIES	REMARKS
B1	12	18	2 - #7	2 - #7	2 - #8	6' 4@8	EE	TOP BARS DE FROM COL
B2	12	18	2 - #6	2 - #6	—	6' 4@8 6' 284, 16@ 468	EE DE	TOP BARS DE FROM COL
B3	15	18	2 - #9	2 - #9	2 - #9	6' 4@3, 4@5, 6@3 6' 468	CE PE	
B4	15	18	2 - #7	2 - #6	—	6' 284, 468 6' 468	CE PE	



SEE COL. SCHED. FOR SIZE & REINF.

COL. FTG. DETAIL ½"=1'-0"

As Built JAN 1972

CERTIFICATION
STRUCTURAL PLANS CERTIFIED AS PROVIDED IN SECTION 3-139 (a) AND (b) OF THE 1961 D.C. BUILDING CODE

ASSISTANT DIRECTOR FOR BUREAU OF DESIGN AND ENGINEERING
DATE

REGISTRATION NO. 3704
DATE 4/24/71

ARCHITECT
DATE

REVISION	DATE	DESCRIPTION	BY	APP.

DESIGNED
DRAWN
CHECKED

PROJECT DRAWINGS

PLANS & DETAILS

INSTALLATION OF CELLS - BUILDING P-5
LORTON REFORMATORY - LORTON, VIRGINIA
DEPARTMENT OF CORRECTIONS

NELSON, TILGHMAN ASSOCIATES · ARCHITECTS
815 THAYER AVENUE · SILVER SPRING, MARYLAND · 20910

GOVERNMENT OF THE DISTRICT OF COLUMBIA
DEPARTMENT OF GENERAL SERVICES

DRAWING NO. S-1

PROJECT NO. 22-115-00
DATE APRIL 12, 1971
SHEET 7 OF 10

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