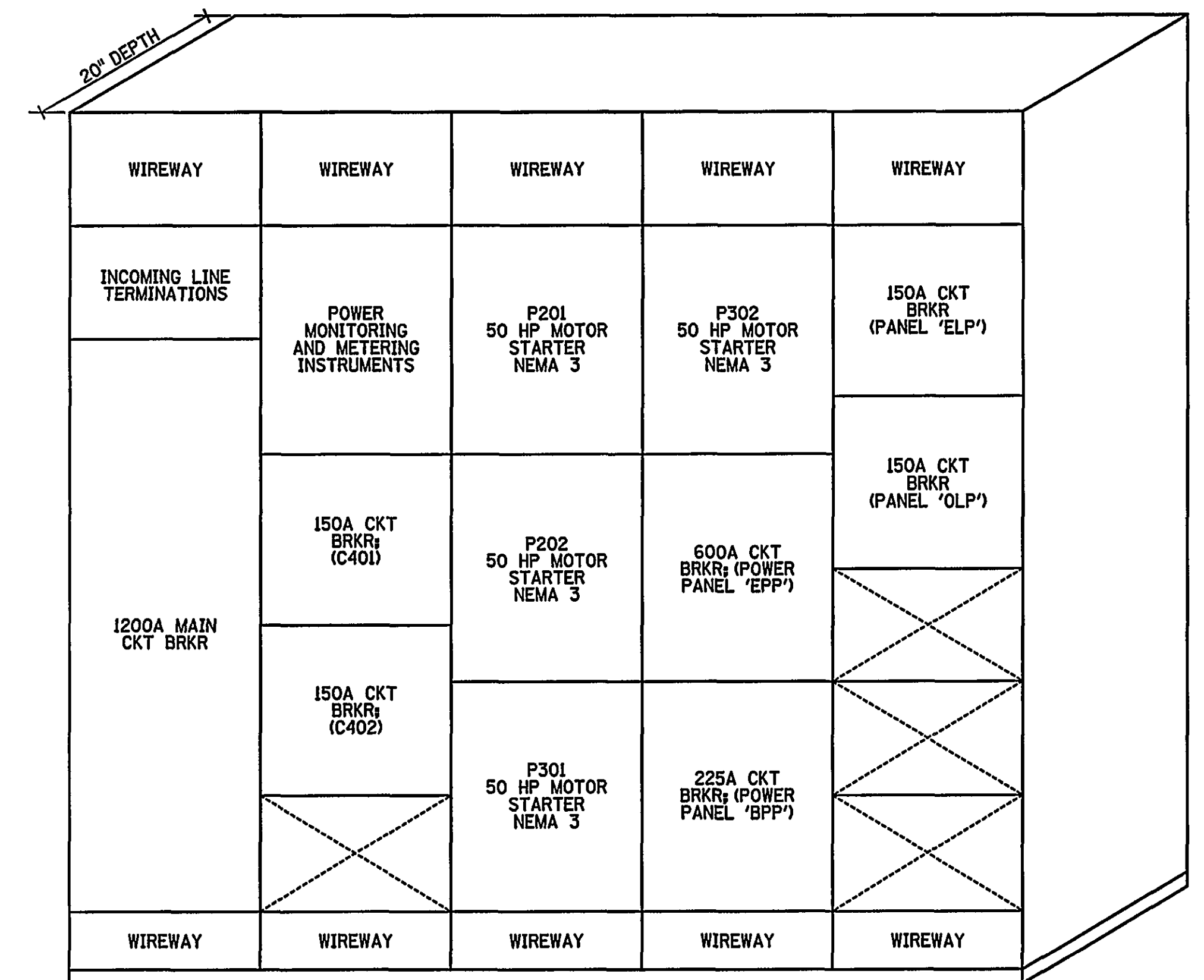


MEZZANINE PLAN - ELECTRICAL SERVICE AND DISTRIBUTION EQUIPMENT
SCALE: 1/8" = 1' - 0"

NOTES

1. MOTOR CONTROL CENTER SHALL BE SUPPLIED WITH MAIN BREAKER LINE LUGS SUFFICIENT FOR ACCEPTING FULL LOAD AMPACITY CABLING, PLUS ONE ADDITIONAL SET OF LUGS FOR CONNECTION OF THE TVSS EQUIPMENT.
2. TVSS EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. GROUND CONNECTION SHALL BE MADE TO THE MAIN ELECTRICAL SERVICE GROUND AT THE MOTOR CONTROL CENTER. ALL LEADS SHALL BE MAINTAINED AS SHORT AS PRACTICAL.
3. PROVIDE 1-#4/0 GCSO GROUNDING ELECTRODE CONDUCTOR IN 1-1/2" PVC FROM GROUND GRID (SEE DRAWING E-3 FOR CONTINUATION) TO MOTOR CONTROL CENTER NEUTRAL BUS.
4. DRY TRANSFORMERS SHALL BE CONNECTED PER THE TYPICAL WIRING DIAGRAM SHOWN ON DRAWING E-3. THE GROUNDING CONNECTION SHALL BE MADE TO THE GROUNDING ELECTRODE CONDUCTOR PROVIDED AS SHOWN ON DRAWING E-3, AND SHALL BE MAINTAINED SEPARATELY FROM ANY OTHER GROUND GRID CONNECTION.
5. PROVIDE VARIABLE FREQUENCY DRIVES PACKAGED WITH RAW WATER FEED PUMPS, #PI01 & #PI02. PROVIDE ALL POWER AND CONTROL CONDUCTORS AND CONDUIT ASSOCIATED WITH VFDS AND PUMPS.
6. FIELD DRILL THROUGH PRECAST CONCRETE HOLLOW CORE SLAB FOR 4" DIAMETER OPENINGS AND SMALLER IN APPROVED LOCATIONS AS RECOMMENDED BY THE PRECAST MANUFACTURER. DO NOT CUT PRESTRESSING STEEL.
7. ANCHOR ELECTRICAL EQUIPMENT TO THE PRECAST HOLLOW CORE SLAB IN AN APPROVED MANNER AS RECOMMENDED BY THE PRECAST MANUFACTURER.



DETAIL - MOTOR CONTROL CENTER ELEVATION
SCALE: 1" = 1' - 0"

IF THIS DRAWING IS A REDUCTION,
GRAPHIC SCALE MUST BE USED.

5' 0 5' 10' 15'

1/8" = 1'-0"

REV.	DATE	BY	APP.	DESCRIPTION
5-01-03	JLW	MKJ		RECORD DRAWING

RECORD DRAWING

DATE: MAY 1, 2003

Wiley & Wilson
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IN ASSOCIATION WITH

HDR

HDR Engineering, Inc.
5700 LAKE WRIGHT DRIVE
NORFOLK, VIRGINIA 23502
757-222-1500

DESIGNED	DRAWN	PROJECT
SAB	SAB	CRYSTAL SPRING WATER TREATMENT PLANT FOR THE CITY OF ROANOKE, VIRGINIA
CHECKED	REVIEWED	REFERENCE
PLG	MKJ	ELECTRICAL
COMM. NO.	CADD NO.	TITLE
200171-01	200171e03.dgn	MEZZANINE PLAN - ELECTRICAL SERVICE AND DISTRIBUTION EQUIPMENT
DATE	DWG. NO.	SHEET NO.
AUG 26, 2001	E-4	65 OF 72
		REV. 0