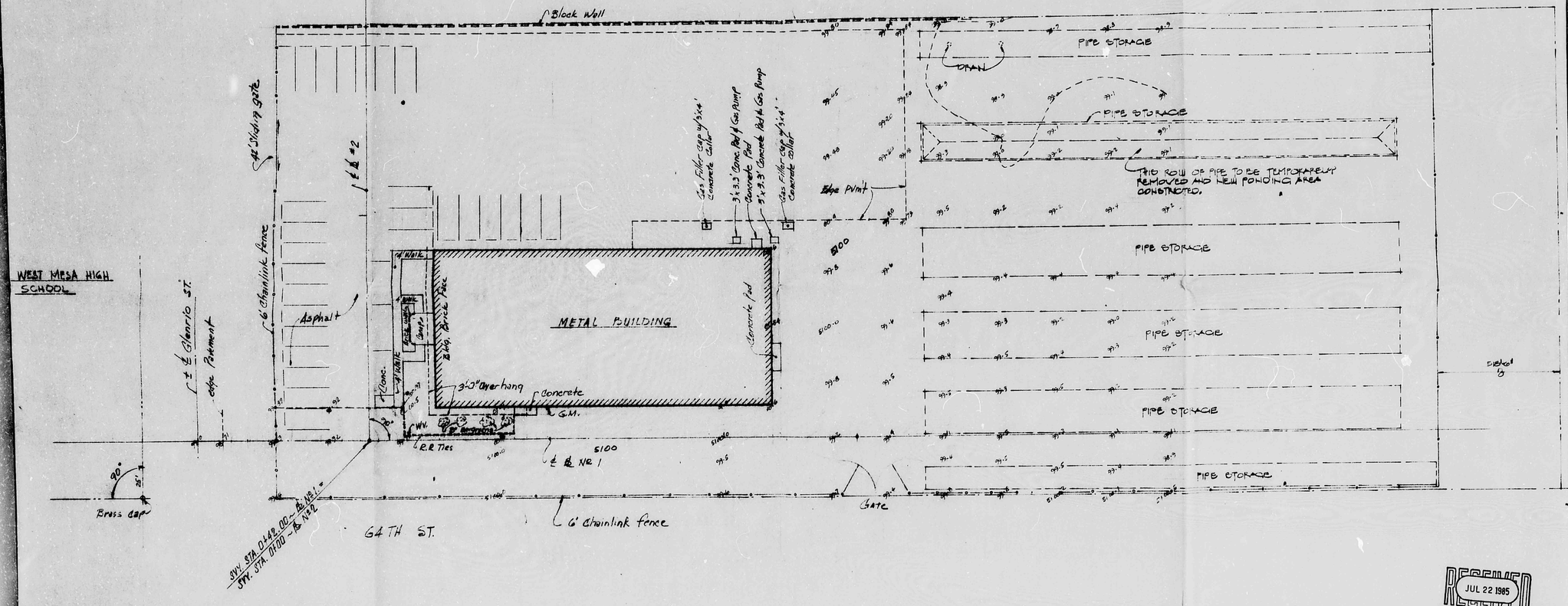

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Scale: 1" = 20'

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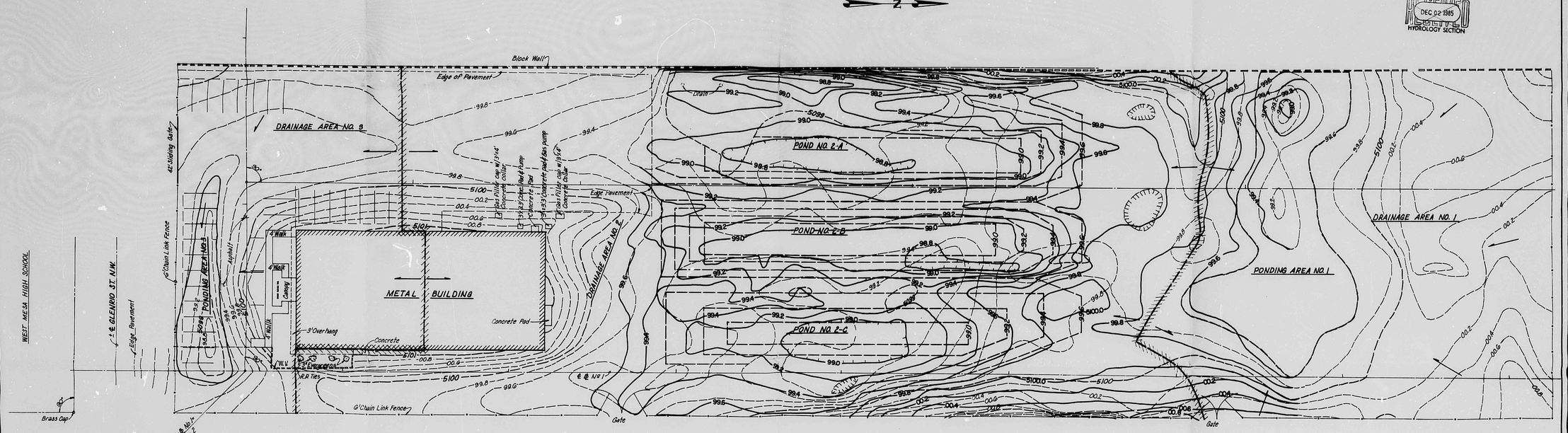

WATERWORKS SALES CO.

SCALE: 1"=20'

LEGEND

- Drainage Divide
- Flow Arrow
- Existing Contours
- Proposed Contours
- As-Constructed Contours

PROPOSED PONDING

POND	MAX W.S. EL.	VOLUME
1	99.6	1383 cf
2-A	99.4	3673 cf
2-B	99.6	4410 cf
2-C	99.4	2157 cf
3	99.3	357 cf
		Σ = 11980 cf*

AS-CONSTRUCTED PONDING

POND	MAX. W.S. EL.	VOLUME
1	99.6	1383 cf
2-A	99.4	5328 cf
2-B	99.4	3932 cf
2-C	99.4	2188 cf
3	99.3	357 cf
		Σ = 13188 cf*

*Assumes no displacement due to pipe storage

DRAINAGE AREA NO. 1

Area= 1.06 Ac.
Undeveloped Condition
C= 0.34
Q= 1.68 cfs
V= 0.07 AF
Developed Condition
C= 0.34
Q= 1.68 cfs
V= 0.07 AF

DRAINAGE AREA NO. 2

Area= 2.27 Ac.
Undeveloped Condition
C= 0.34
Q= 3.59 cfs
V= 0.16 AF
Developed Condition
C= 0.43
Q= 4.54 cfs
V= 0.18 AF

DRAINAGE AREA NO. 3

Area= 0.83 Ac
Undeveloped Condition
C= 0.34
Q= 1.09 cfs
V= 0.04 AF
Developed Condition
C= 0.92
Q= 2.95 cfs
V= 0.12 AF

ENTIRE SITE

Area= 4.02 Ac
Undeveloped Condition
C= 0.34
Q= 6.4 cfs
V= 0.25 AF
Developed Condition
C= 0.49
Q= 9.25 cfs
V= 0.36 AF

1. Assuming that all of historic runoff is allowed to exist from the site, ponding volume must equal the development runoff volume less historic runoff volume, i.e. 0.36-0.25=0.11 AF Ponding volume provided per this grading plan=0.19 AF. Ponds in areas 1 and 2 have have reduced by 30% in volume to account for displacement by pipe storage. Peak runoff volume is decreased from historic flow of 0.25 AF to 0.36-0.19=0.17 AF

2. Peak runoff Q is increased because of development by 9.16-6.4=2.76 cfs

3. Design criteria for this plan are to bring the site into accordance with the original grading plan and drainage plan dated January 1980 by Enchantment Engineering Inc. Improvements shown on this plan will accomplish the intent of the original plan.

4. As-Constructed Volume = 0.21 AF with ponds in Areas 1 and 2 being reduced in volume by 30%. Peak Runoff Volume is decreased from historic flow of 0.25 AF to 0.36-0.21-0.15 AF.

I, Clinton Dodge, hereby certify that this is true and correct to the best of my knowledge and belief, and that this as-constructed drainage plan meets the intent of the original drainage plan criteria of 1980.

CLINTON DODGE — NEW MEXICO

WATERWORKS SALES
ENGINEER'S CERTIFICATION
NOVEMBER 1985

LEEDSHILL - HERKENHOFF, INC.
ALBUQUERQUE · SANTA FE · PHOENIX · SAN FRANCISCO

CITY OF ALBUQUERQUE