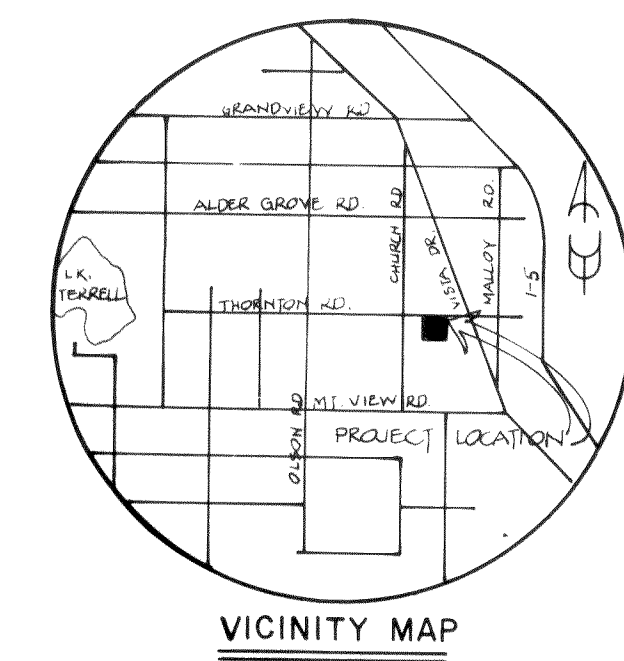
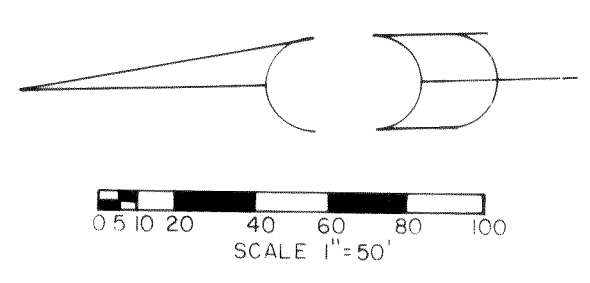
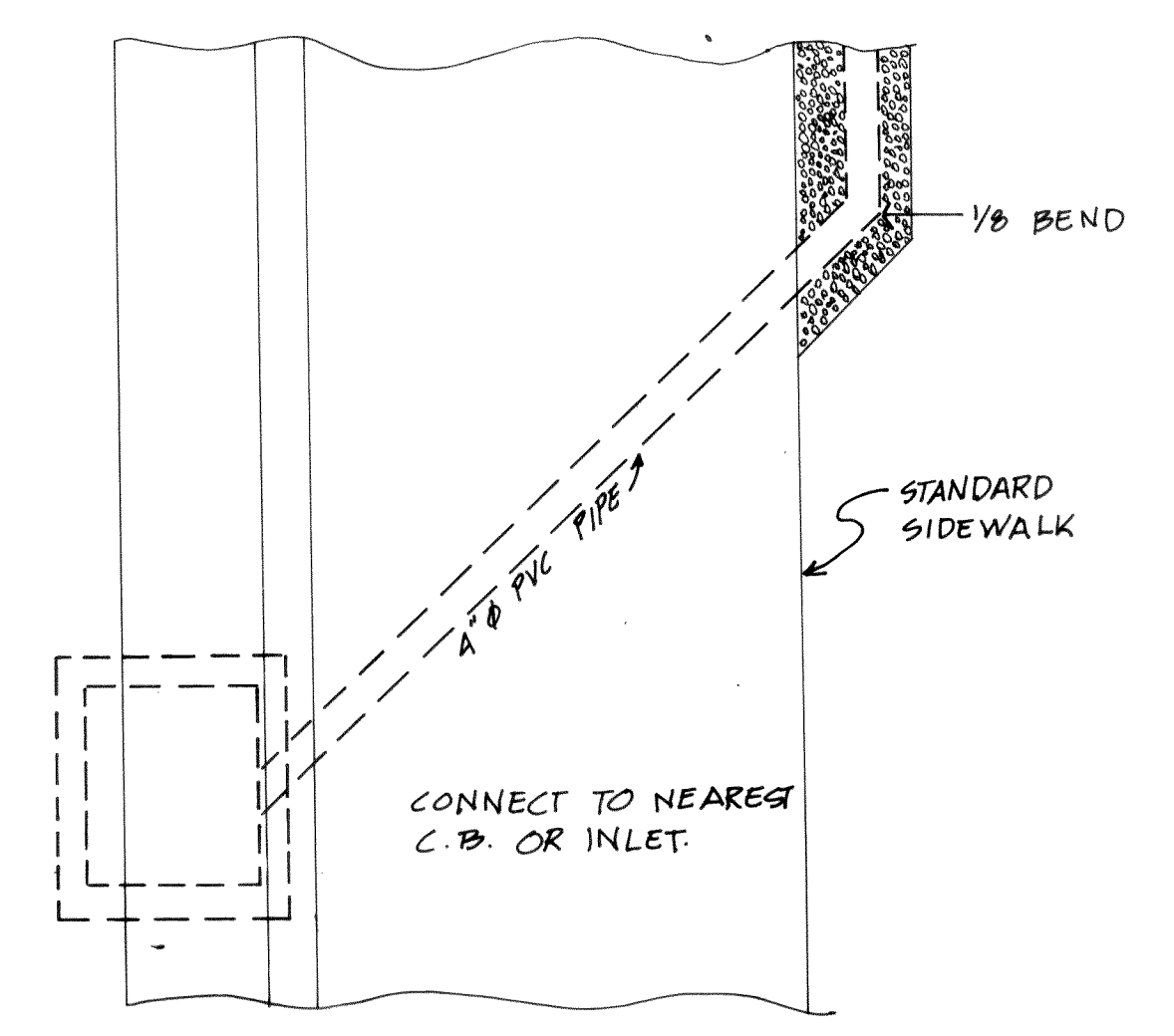


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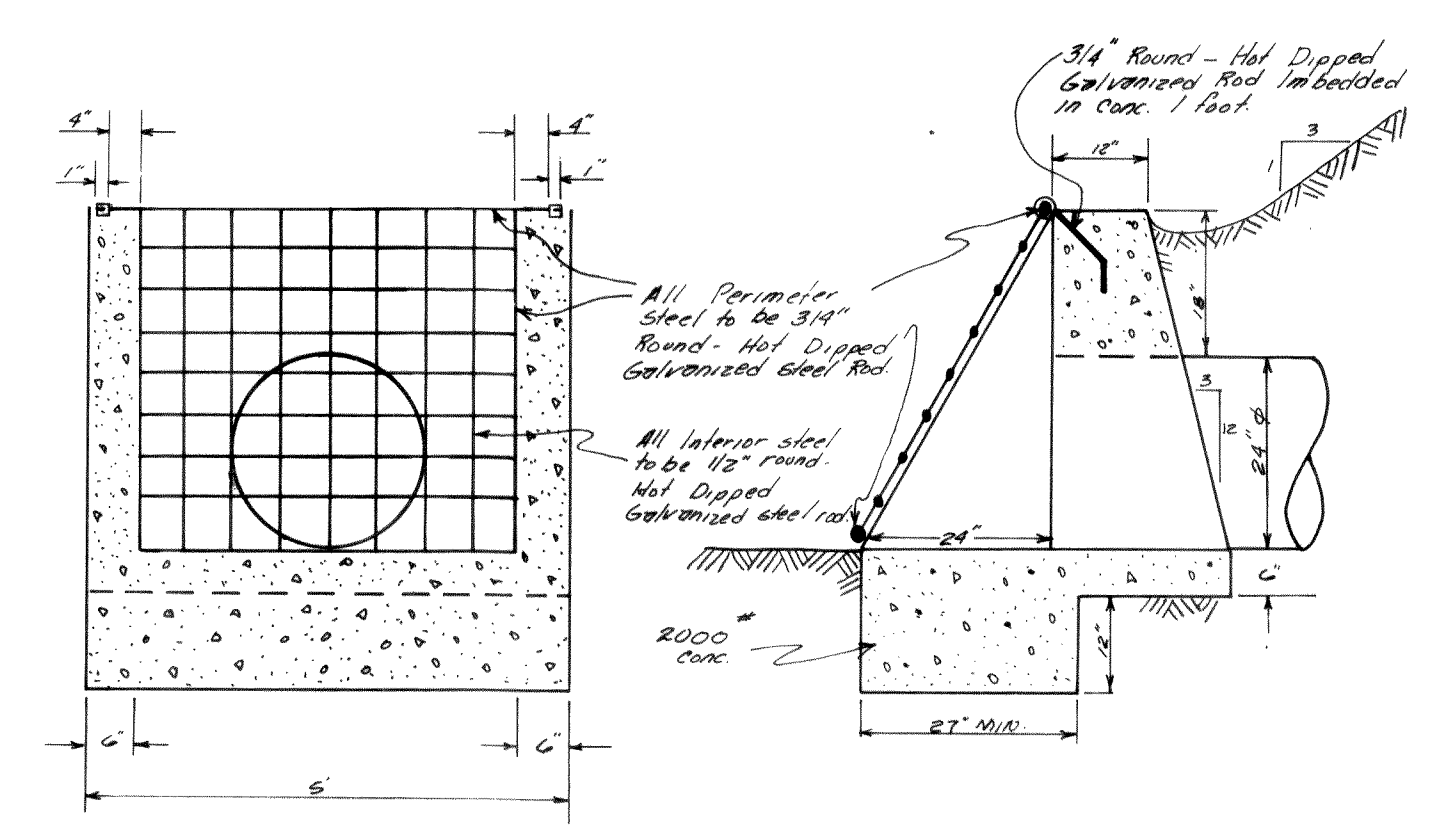


### GENERAL NOTES

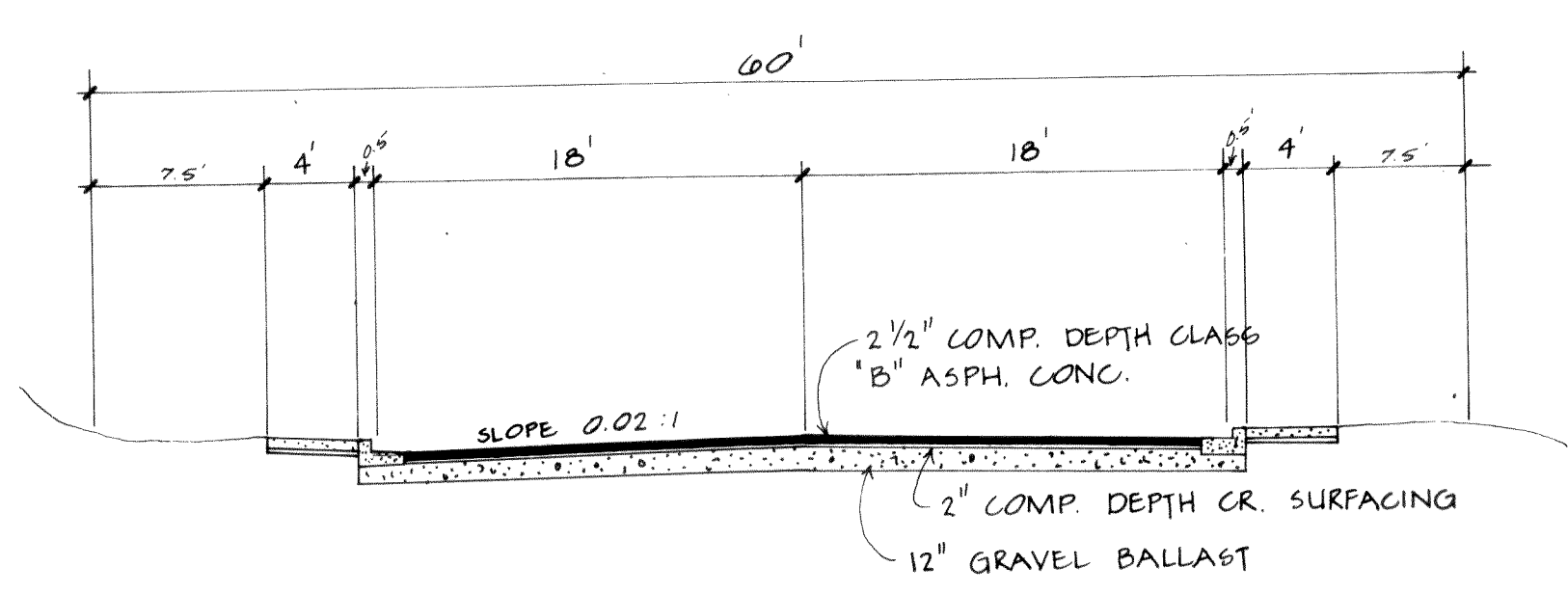
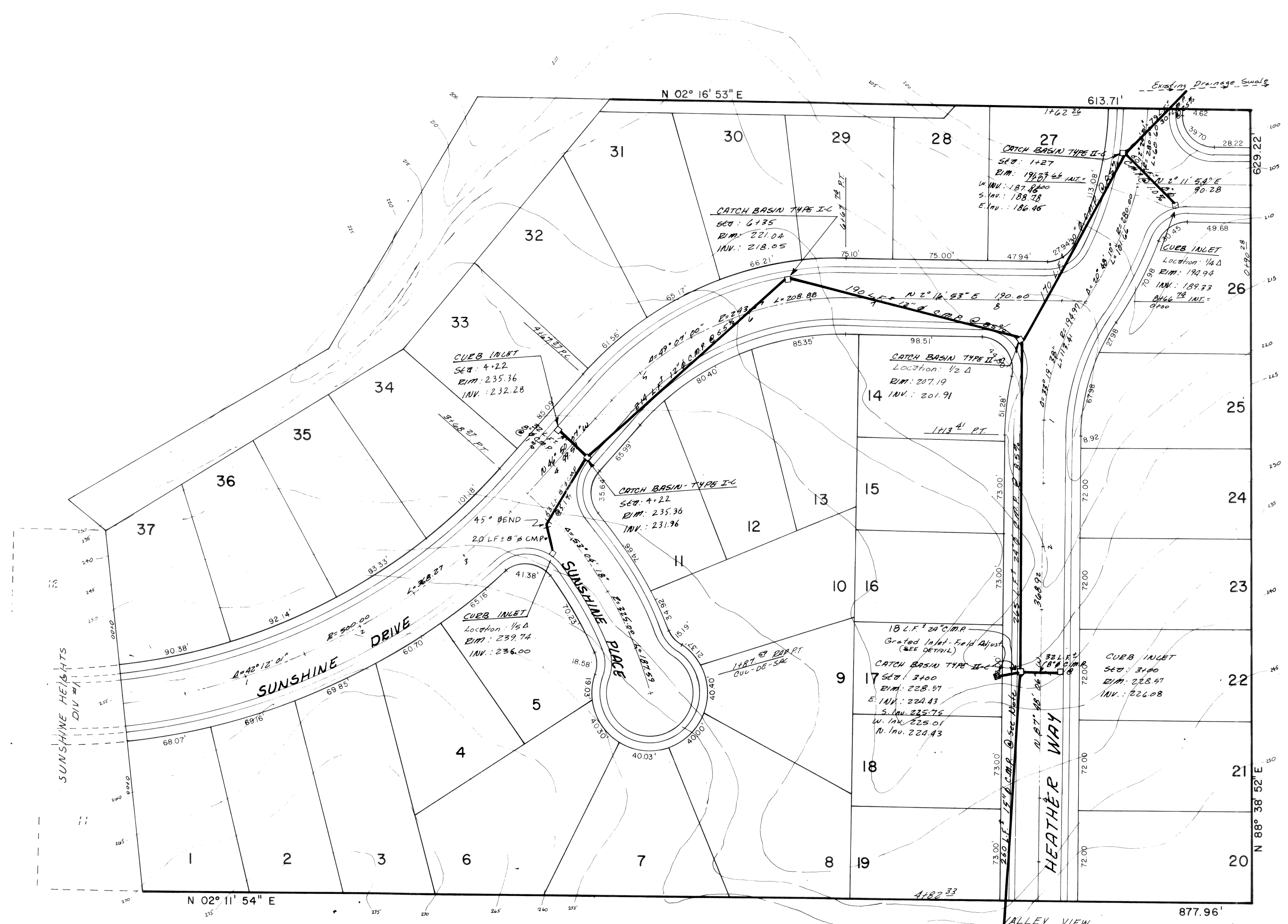
1. All materials and workmanship shall conform to A.P.W.A., 1977 Edition, Standard Specifications and in accordance with the standards and specifications of the City of Ferndale.
2. Vertical datum is City of Ferndale Power Pole No. 32773 N.W. Spike, Elevation 139.45.
3. This work shall include all excavation and embankment, on a basis, the preparation of subgrade, and installation of base and p.k.
4. Excavation shall include the clearing of the site, locusts, locusts and transporting of all materials, set or dry, necessary to construct all work to the lines, grades, and locations shown on the plans.
5. The contractor must assume the risk of meeting, pickpicks, boulders, clay, rubbish, existing utility lines, masonry structures and other unforeseen obstacles.
6. All testing as required shall be conducted under the supervision of the City Engineer's office.
7. The Engineer will submit the plans to the City of Ferndale for approval. Construction is prohibited until such approval is received.
8. All locations of existing utilities shown are approximate, and it shall be the responsibility of the contractor to verify true and correct locations.
9. Extent of 4" sidewalk drain to be determined by Engineer after roadway is excavated to sub-grade.



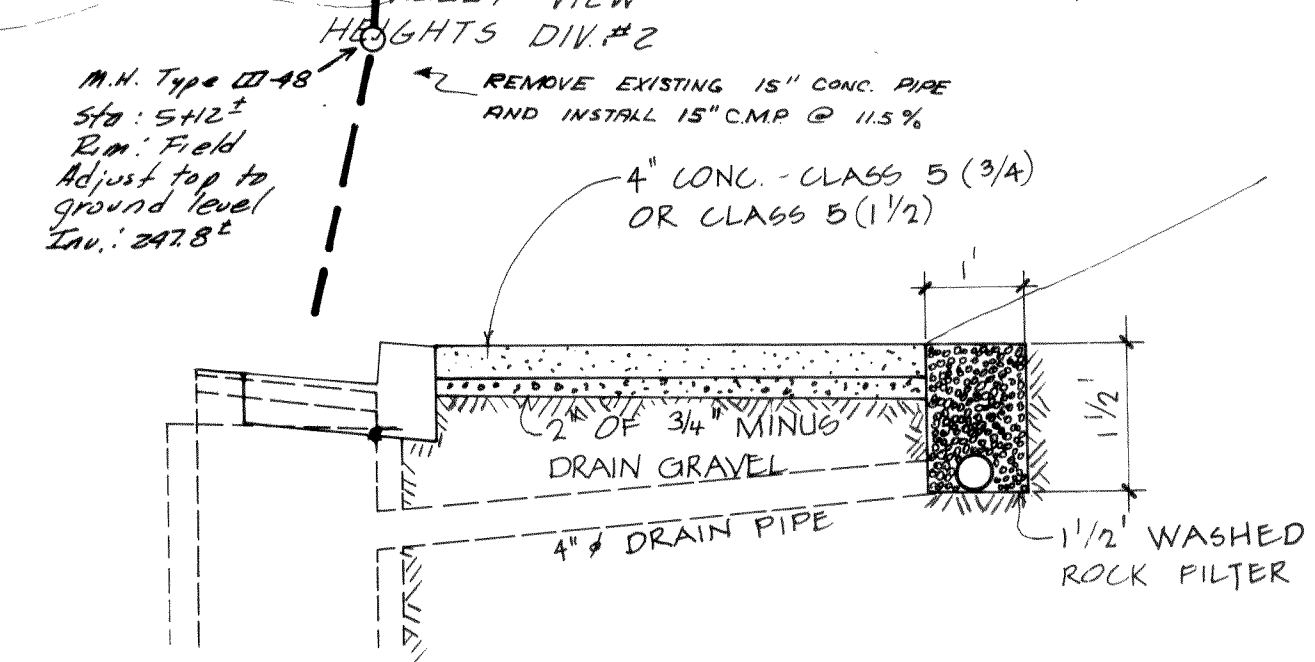
SIDEWALK DRAIN PLAN VIEW



HEADWALL & GRATED INLET - SECTION & PLAN VIEWS



ROADWAY SECTION  
N.T.S.



SIDEWALK DRAIN  
N.T.S.

AS - BUILT

**NORTHWEST CONSULTANTS**  
1310 Broadway, Suite 2-B, Bellingham, Washington 98225 (206-676-9058)

FERNDALE DEVELOPMENT INC.

Scale \_\_\_\_\_ Date \_\_\_\_\_  
Drawn By \_\_\_\_\_  
Checked By \_\_\_\_\_  
Approved \_\_\_\_\_

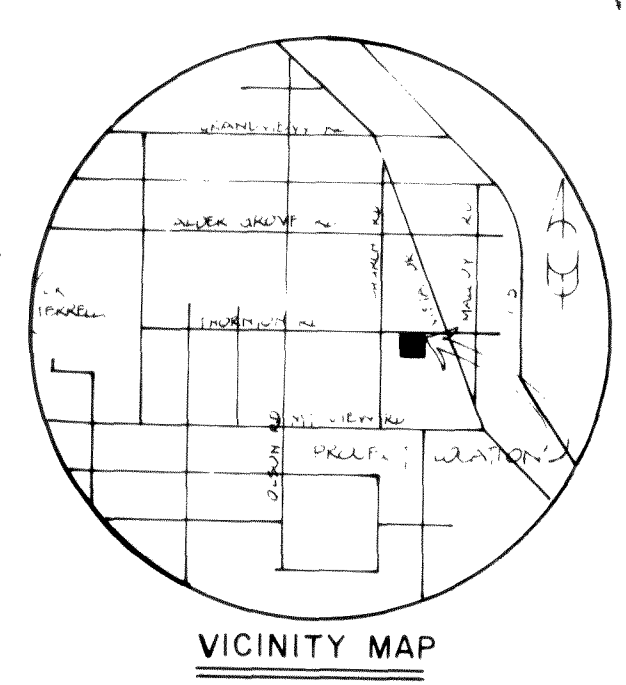
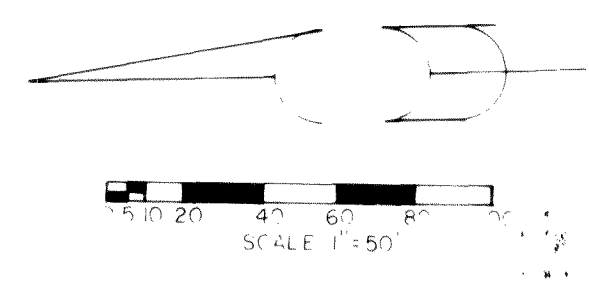
Revisions  
1/13/19 1/13/19  
Change to 1/13/19  
Change to 1/13/19

SUNSHINE HEIGHTS DIV. 2

ROADWAY & STORM DRAINAGE PLAN

Sheet  
1  
of  
7

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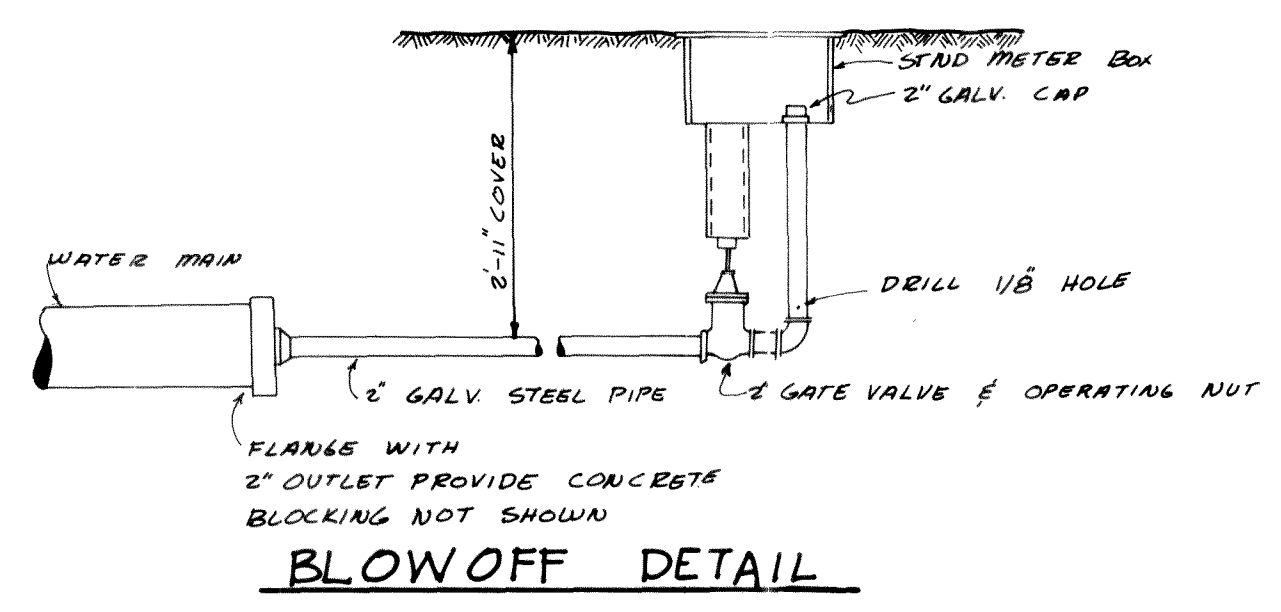
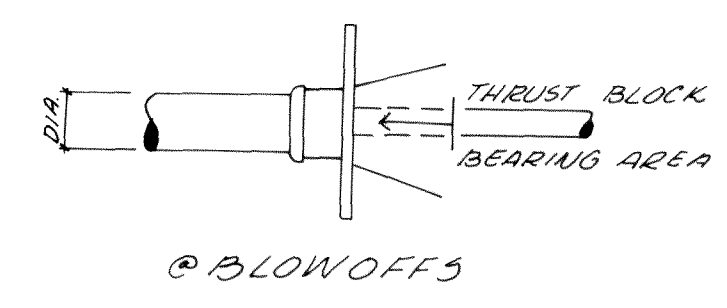
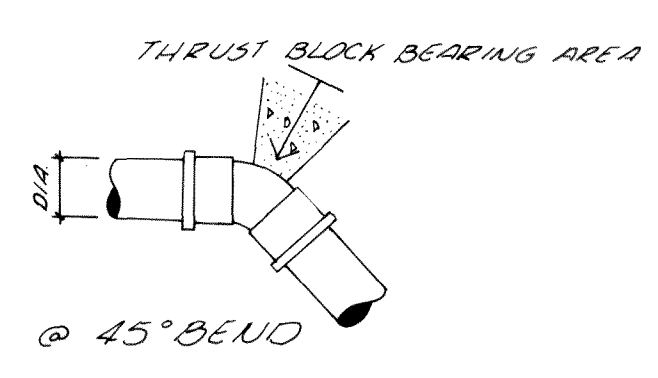
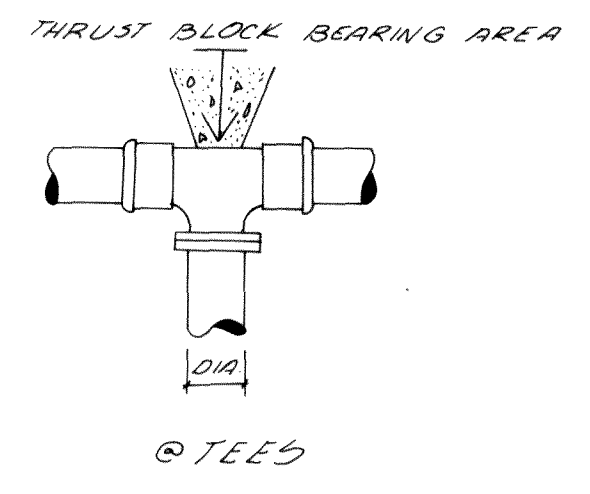
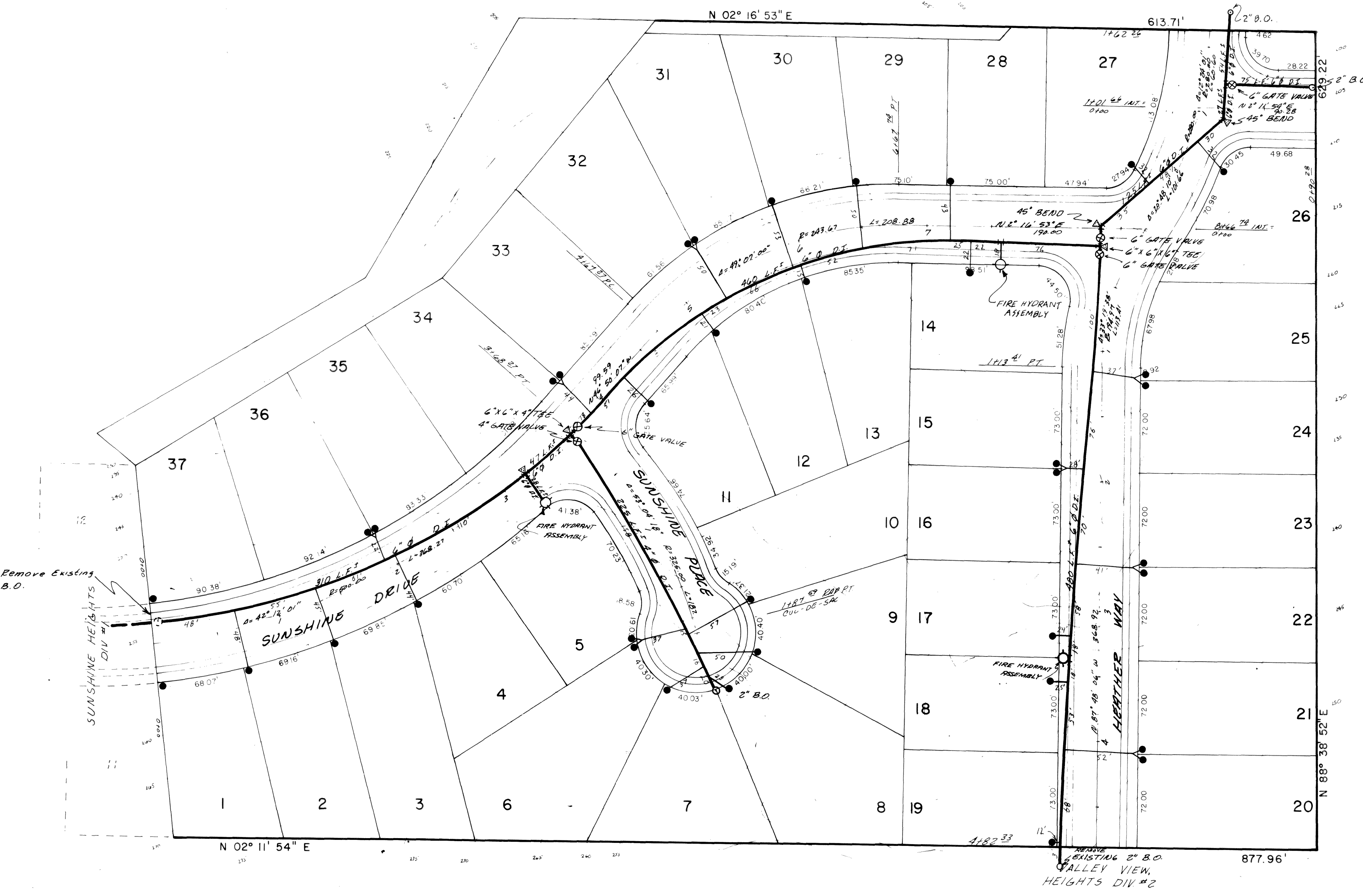


### GENERAL NOTES

- All construction and materials shall be in accordance with the standards and specifications of the City of Ferndale as approved by the Washington State Department of Social and Health Services and the Department of Ecology.
- Blow off assemblies shall be as shown on typical details or as approved by the City of Ferndale.
- Concrete thrust blocks shall be as shown on typical details or as required and shall be constructed of concrete with a 7,000 psi minimum at 28 days.
- The Engineer will submit the plans to the City of Ferndale for approval. Construction is prohibited until such approval is received.
- All locations of existing utilities shown are approximate and it shall be the responsibility of the Contractor to verify true and correct location.
- Typical side services to be 200 psi (3/4" single and 1" double service).

### LEGEND

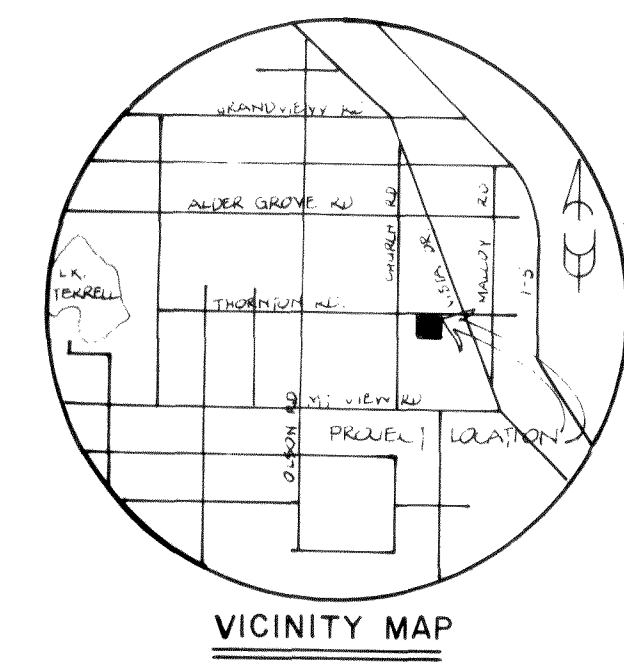
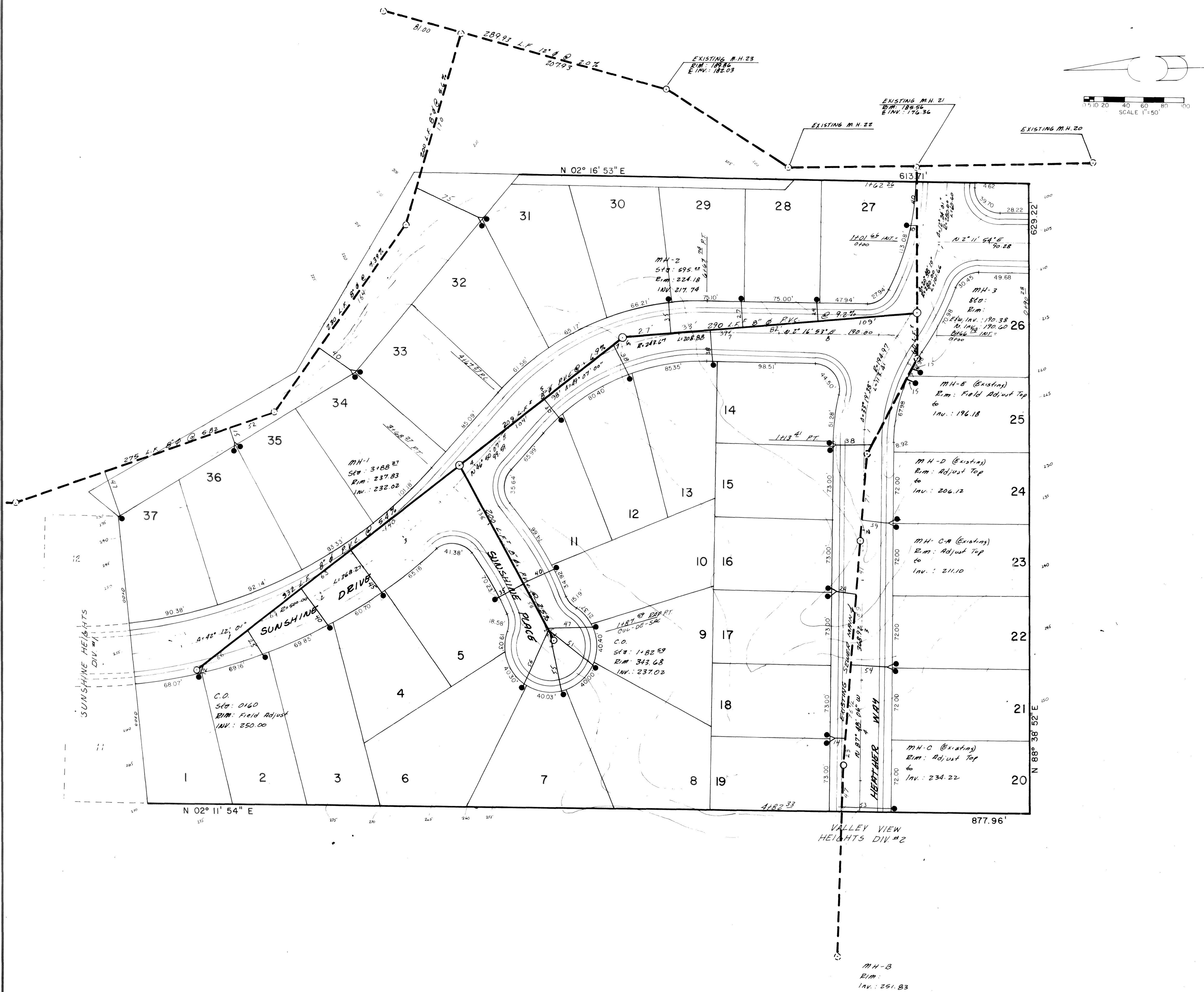
- |  |                                 |
|--|---------------------------------|
|  | Water Main                      |
|  | Exist'g Water Main              |
|  | Fire Hydrant assembly           |
|  | Blow off                        |
|  | Gate Valve                      |
|  | Tee w/blocking                  |
|  | Water Service (single & double) |



**BLOCKING DETAILS**  
BLOCKING AREA:  
1 FT<sup>2</sup> When Dia = 4"  
4 FT<sup>2</sup> When Dia = 6"  
6 FT<sup>2</sup> When Dia = 8"

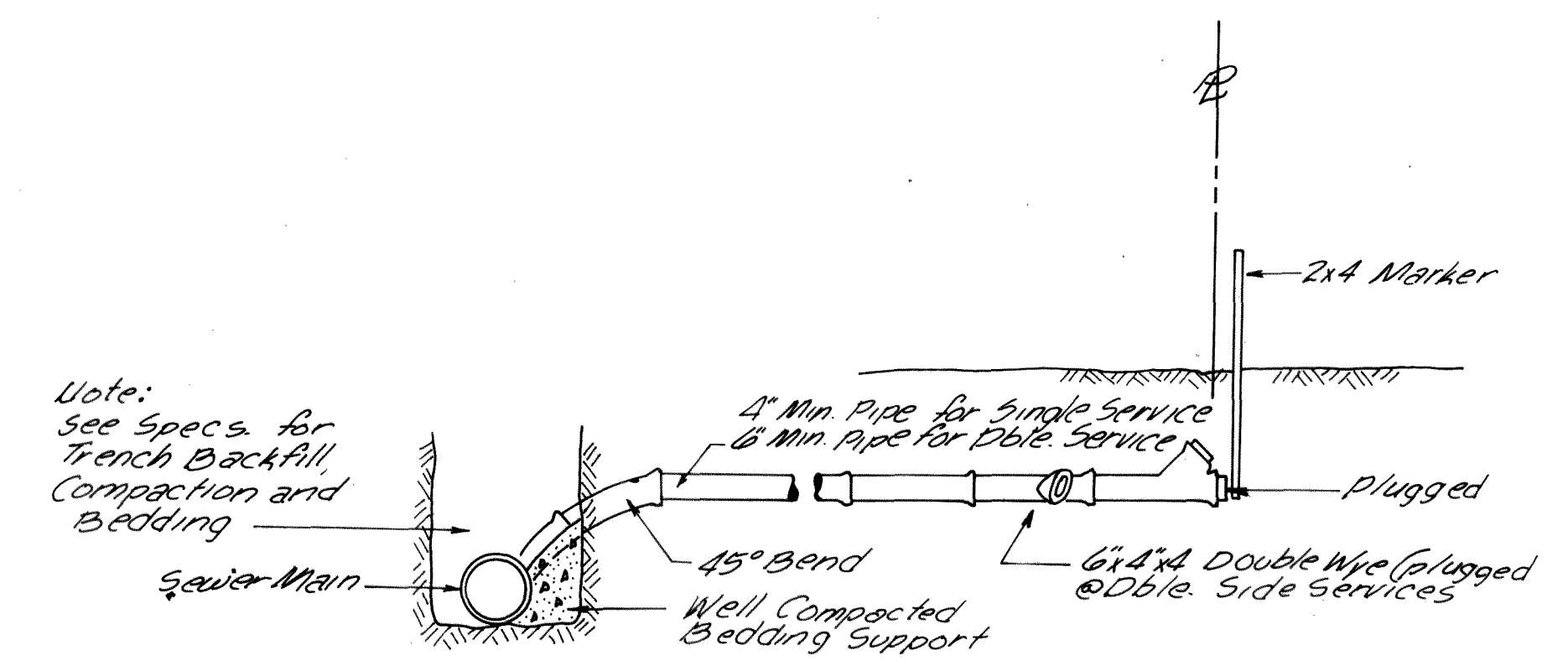
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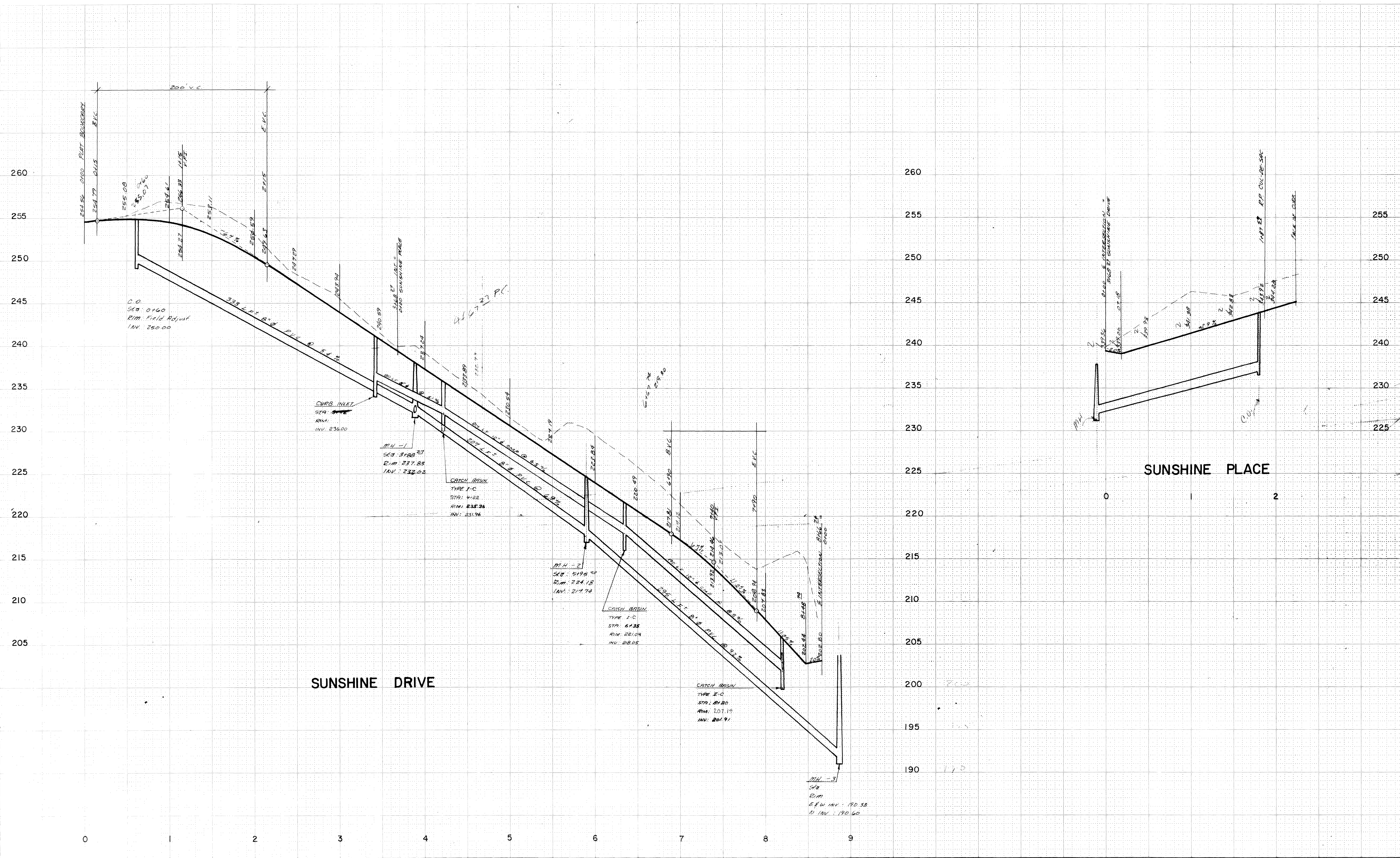
### GENERAL NOTES

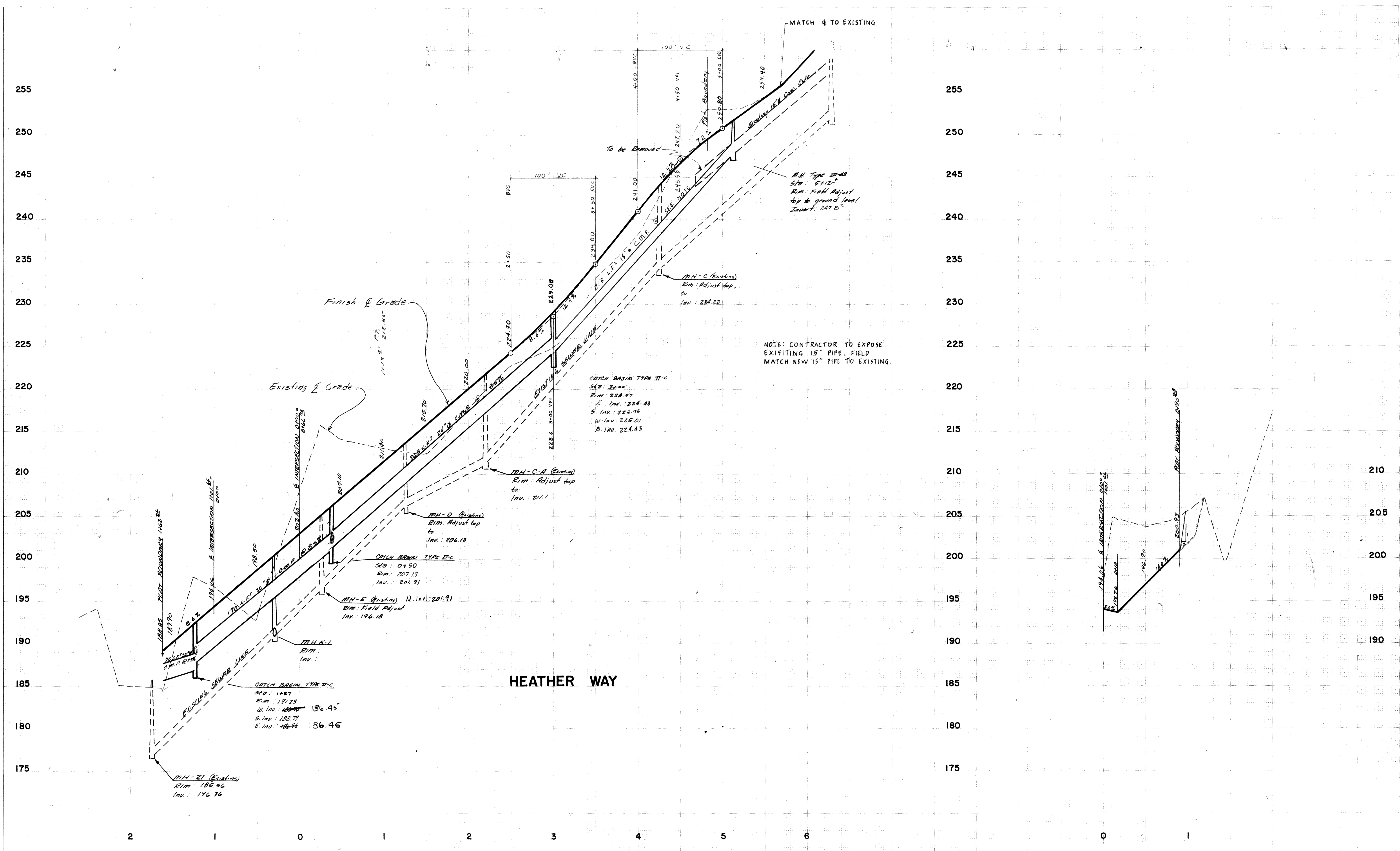
1. Vertical Datum is City of Ferndale, Power Pole No. 32973 R.R. Spike, Elevation: 734.42.
2. All pipe grades and inverts are computed from  $\frac{1}{2}$  of manhole to  $\frac{1}{2}$  of manhole.
3. All gravity sewer pipe unplasticized polyvinylchloride (P.V.C.) with integral all bell and spigot joints. Pipe and fittings shall meet extra strength minimum of SDR 35 of the requirements of ASTM Spec. D 3034.74.
4. All work shall be done to the satisfaction of the City of Ferndale City Engineer and the State Department of Health.
5. The Engineer will submit the plans to the City of Ferndale for approval. Construction is prohibited until such approval is received.
6. All testing, as required, shall be conducted under the supervision of the City Engineer's office.
7. All locations of existing utilities shown are approximate. It shall be the responsibility of the Contractor to verify true and correct location so as to connect services and avoid damage or disturbance.
8. Rim elevations given are approximate. Tops shall be adjusted to fit final road grade elevations after paving.



### SIDE SEWER DETAILS

AS-BUILT





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FERNDAL DEVELOPMENT INC.

Scale \_\_\_\_\_ Date \_\_\_\_\_  
Drawn By \_\_\_\_\_  
Checked By \_\_\_\_\_  
Approved \_\_\_\_\_

Revisions  
1. \_\_\_\_\_  
2. \_\_\_\_\_  
3. \_\_\_\_\_

SUNSHINE HEIGHTS DIV. 2

ROADWAY, SANITARY SEWER  
& STORM DRAINAGE PROFILES

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of  
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