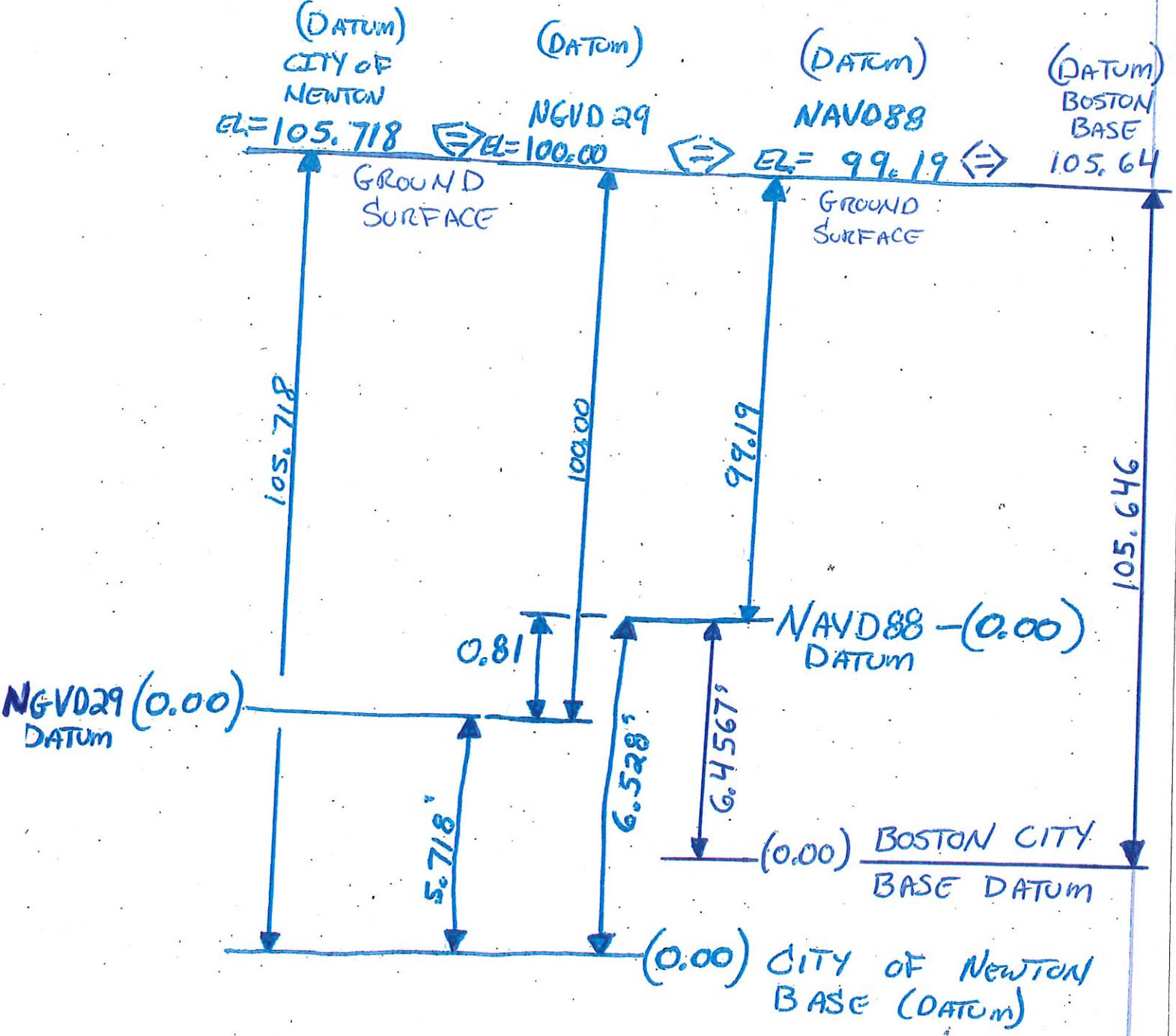
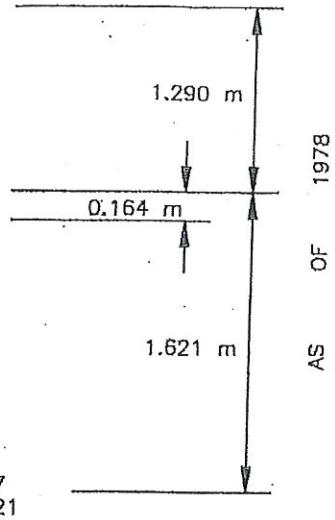
# VISUAL RELATIONSHIP OF VERTICAL DATUMS



| | |
|---|---|
| TOWN OF ORANGE | +132.560 |
| TOWN OF NORTH ATTLEBOROUGH | +51.962 |
| NEW ENGLAND POWER CO. (WESTBOROUGH) | +32.051 |
| WESTERN MASS ELECTRIC CO. (GREENFIELD) | +20.942 |
| CITY OF LOWELL | +16.579 |
| LOCKS AND CANALS CORP. (LOWELL) | +1.339 |
| CITY OF LAWRENCE | +1.306 |
| MEAN HIGH WATER* | +1.290 |
| TOWN OF FRAMINGHAM | +1.006 |
| CITY OF FALL RIVER | +0.571 |
| CITY OF TAUNTON | +0.541 |
| CITY OF NEW BEDFORD | +0.526 |
| CITY OF ATTLEBORO | +0.451 |
| CITY OF LEOMINSTER | +0.261 |
| CITY OF WORCESTER | +0.045 |
| NAVD 88 DATUM = | 0.000 METERS |
| MEAN TIDE LEVEL* | −0.164 |
| TOWN OF NATICK | −0.247 |
| CITY OF CHICOPEE | −0.328 |
| CITY OF SPRINGFIELD | −0.361 |
| TOWN OF GREENFIELD | −0.421 |
| CITY OF HAVERHILL | −0.681 |
| CITY OF BROCKTON | −0.721 |
| HOLYOKE WATER POWER CO. | −0.984 |
| CITY OF HOLYOKE | −1.005 |
| CITY OF SALEM | −1.576 |
| SOUTH ESSEX SEWAGE DISTRICT (SALEM) | −1.606 |
| TOWN OF MANCHESTER | −1.607 |
| MEAN LOW WATER* | −1.621 |
| CITY OF PEABODY | −1.715 |
| BOSTON LOW WATER | −1.736 |
| LOGAN AIRPORT (WATERWAYS) | −1.854 |
| CITY OF LYNN | −1.857 |
| LOGAN AIRPORT (HIGHWAYS) | −1.876 |
| CITY OF SOMERVILLE | −1.890 |
| TOWN OF WELLESLEY | −1.916 |
| CITY OF BEVERLY | −1.933 |
| TOWN OF DEDHAM | −1.959 |
| BOSTON CITY BASE & WALTHAM CITY BASE | −1.968 |
| CITY OF NEWTON | −1.990 |




NAVD 1988

−1.968M ≈ −6.4567 US FT.

−1.99 M ≈ −6.528 FT. US

6
33
274
.433
2.439
32.448
32.515

NEWTON CITY BASE = (NAVD88 − (−6.528))
DATUM

BOSTON CITY BASE = (NAVD88 − (−6.4567))
DATUM

model

can be considered accurate at the 2 cm level nationwide, with better accuracy in the eastern United States.

DATUM DIFF. NGVD29 / NAVD 88 = 0.81 US FT.

VD88 0.00

−6.528

CITY OF NEWTON BASE = 0.00

MASS HIGHWAY SURVEY MANUAL

# RELATION OF DATUM PLANES NAVD 88 (METERS) TO U.S. FT.

DATE OF ISSUE SEPTEMBER 1996

APPENDIX A-2

| | |
|---|---|
| TOWN OF ORANGE | +132.747 |
| TOWN OF NORTH ATTLEBOROUGH | +52.197 |
| NEW ENGLAND POWER CO. (WESTBOROUGH) | +32.266 |
| WESTERN MASS ELECTRIC CO. (GREENFIELD) | +21.110 |
| CITY OF LOWELL | +16.825 |
| LOCKS AND CANALS CORP. (LOWELL) | +1.585 |
| CITY OF LAWRENCE | +1.548 |
| MEAN HIGH WATER* | +1.536 |
| TOWN OF FRAMINGHAM | +1.238 |
| CITY OF FALL RIVER | +0.829 |
| CITY OF TAUNTON | +0.789 |
| CITY OF NEW BEDFORD | +0.777 |
| CITY OF ATTLEBORO | +0.689 |
| CITY OF LEOMINSTER | +0.494 |
| CITY OF WORCESTER | +0.235 |
| MEAN TIDE LEVEL* NGVD 29 DATUM** = | +0.082 |
| | 0.000 METERS |
| TOWN OF NATICK | -0.012 |
| CITY OF CHICOPEE | -0.110 |
| CITY OF SPRINGFIELD | -0.140 |
| TOWN OF GREENFIELD | -0.255 |
| CITY OF HAVERHILL | -0.436 |
| CITY OF BROCKTON | -0.479 |
| HOLYOKE WATER POWER CO. | -0.771 |
| CITY OF HOLYOKE | -0.792 |
| CITY OF SALEM | -1.329 |
| SOUTH ESSEX SEWAGE DISTRICT (SALEM) | -1.359 |
| TOWN OF MANCHESTER | -1.362 |
| MEAN LOW WATER* | -1.375 |
| CITY OF PEABODY | -1.469 |
| BOSTON LOW WATER | -1.490 |
| LOGAN AIRPORT (WATERWAYS) | -1.609 |
| CITY OF LYNN | -1.612 |
| LOGAN AIRPORT (HIGHWAYS) | -1.631 |
| CITY OF SOMERVILLE | -1.643 |
| TOWN OF WELLESLEY | -1.676 |
| CITY OF BEVERLY | -1.686 |
| TOWN OF DEDHAM | -1.719 |
| BOSTON CITY BASE & WALTHAM CITY BASE | -1.722 |
| CITY OF NEWTON | -1.743 |

1.536 m

0.082 m

1.375m

AS OF 1978

NGVD 1929

CONVERT

-1.743 M. = -5.718 FT.

NEWTON CITY BASE = (NGVD 29 - (-5.718))

NGVD 29 ELEV. = 100.00 — 105.718 = CITY OF NEWTON DATUM ELEV.

NGVD 29 DATUM = 0.00

5.718'

0.00 CITY OF NEWTON DATUM

REVISED – Nov. 2001

MASS HIGHWAY SURVEY MANUAL

RELATION OF DATUM PLANES
NGVD 29
(METERS)

DATE OF ISSUE
SEPTEMBER 1996

APPENDIX
A-2

CITY OF NEWTON DATUM IS 5.718 FT. LOWER THAN NGVD 29 DATUM.

# RELATION OF DATUM PLANES
## MASSACHUSETTS

