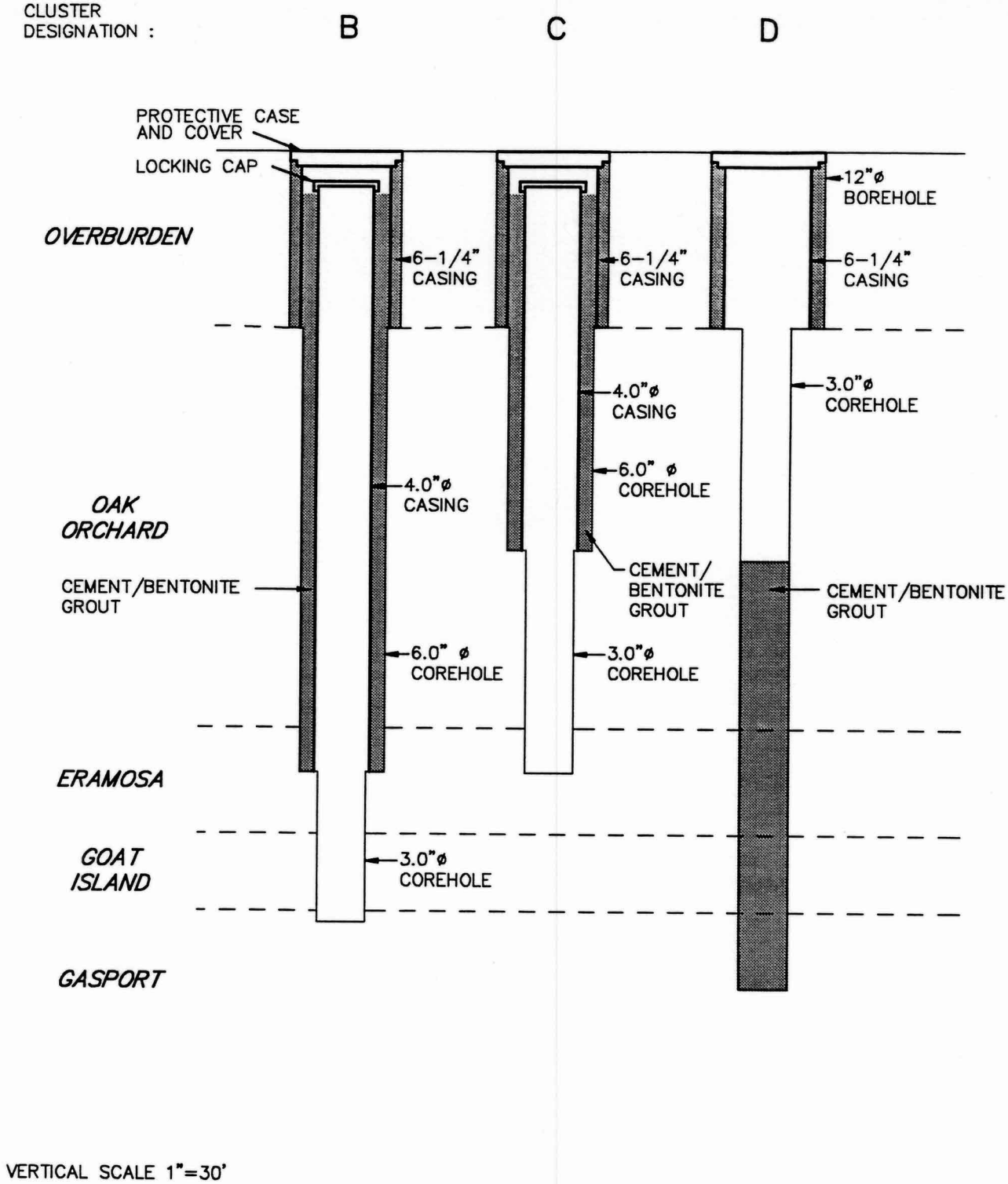


figure 4.4

TYPICAL BEDROCK WELL NEST INSTALLATION
OSI SUMMARY REPORT
Occidental Chemical Corporation – Buffalo Avenue Plant

CRA

2583 (87) AUG 17/92 REV.0 (D-33)

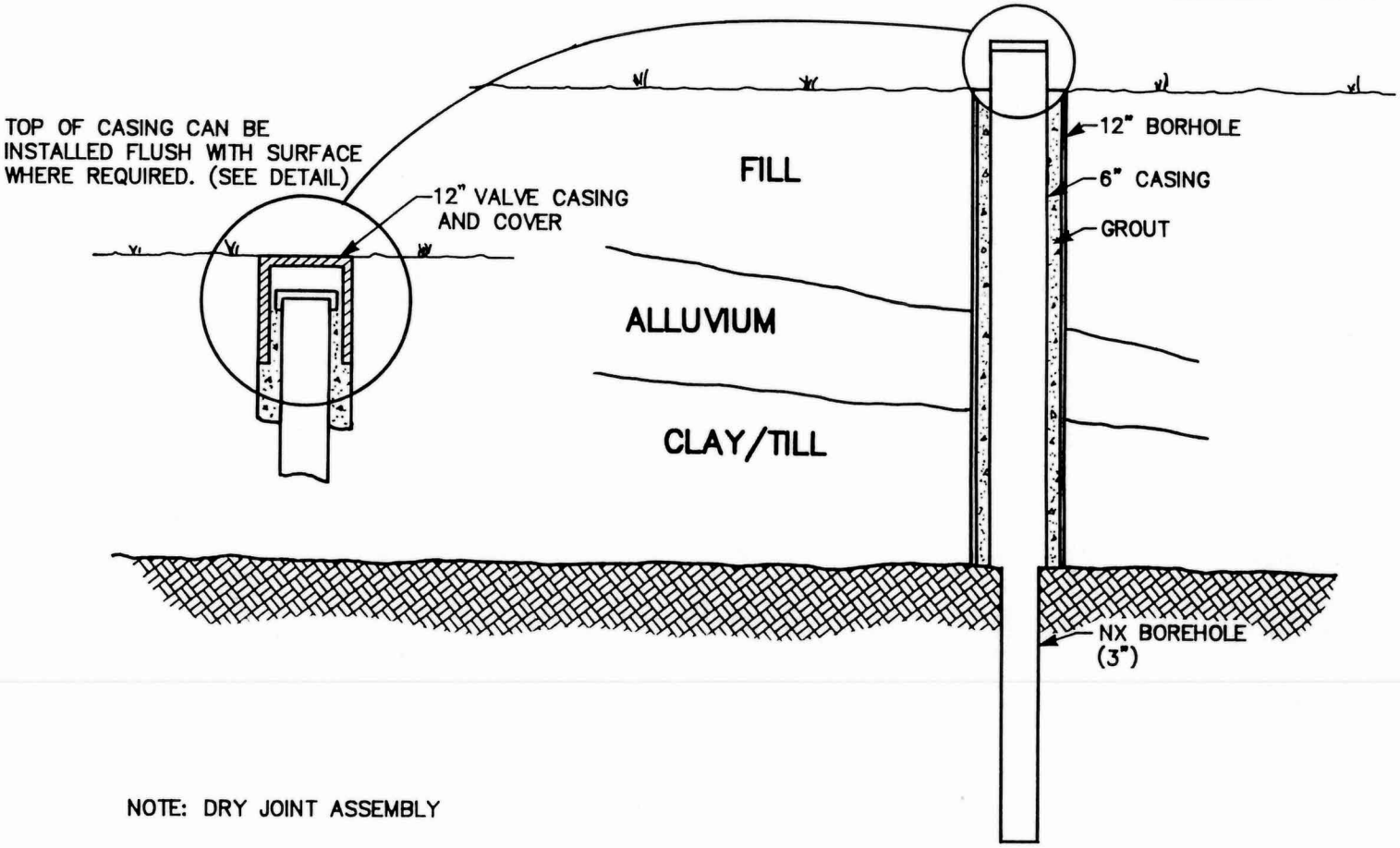


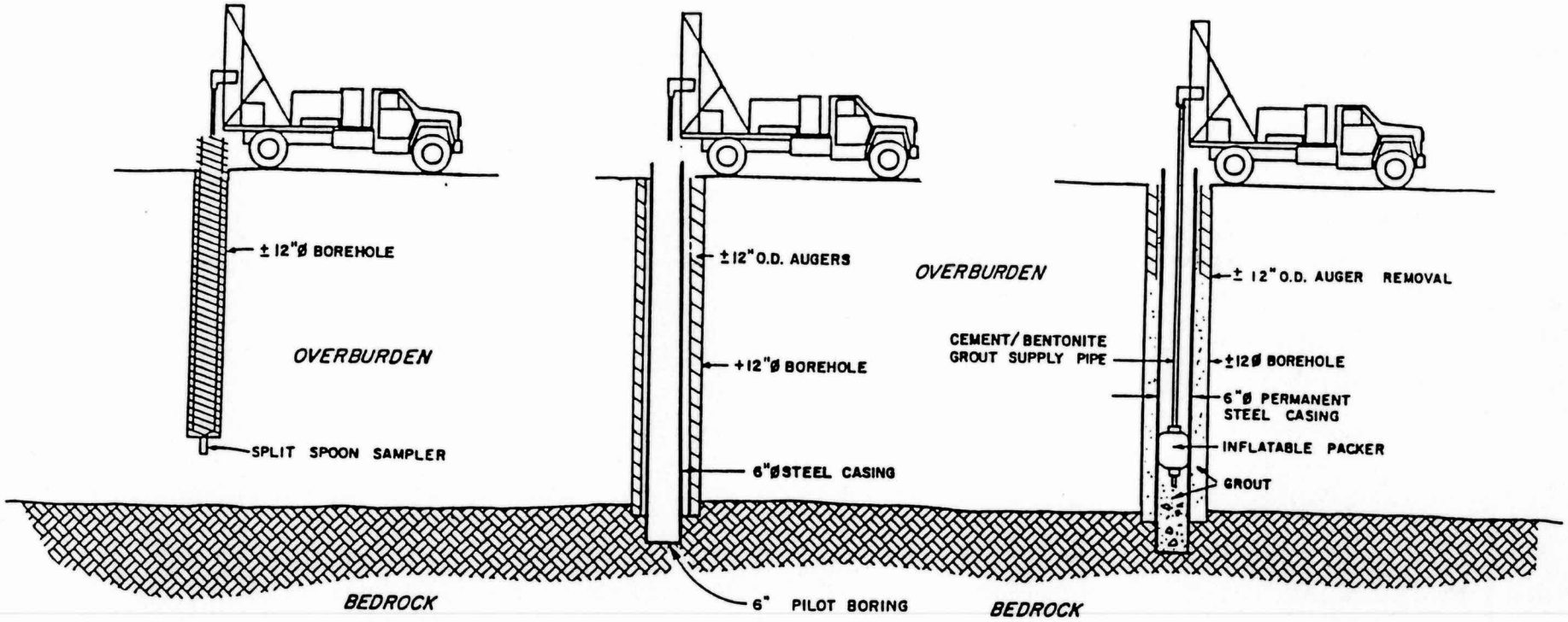
figure 4.5

TYPICAL SHALLOW BEDROCK
MONITORING WELL INSTALLATION
OSI SUMMARY REPORT

Occidental Chemical Corporation–Buffalo Avenue Plant

CRA

2583 (87) AUG 10/92 REV.0



AUGER & CONTINUOUS SPLIT SPOON TO TOP OF COMPETENT BEDROCK

ONCE TO TOP OF COMPETENT BEDROCK INSTALL 6"ø STEEL CASING INSIDE AUGERS TO TOP OF BEDROCK

INSTALL INFLATABLE PACKER INSIDE 6"ø STEEL CASING (WITHIN 12" OF BOTTOM OF HOLE), INFLATE & COMMENCE PUMPING GROUT THROUGH PACKER, FORCING GROUT TO GROUND SURFACE. (GROUTING PRESSURE NOT TO EXCEED 0.7 PSI PER FOOT OF OVERLYING MATERIAL) ONCE GROUT IS OBSERVED AT GROUND SURFACE, REMOVE AUGERS ADDING GROUT AS REQUIRED TO MAINTAIN CONTINUOUS GROUT ENVELOPE. ONCE ALL AUGERS HAVE BEEN REMOVED, IMMEDIATELY SEAT 6"ø CASING INTO ROCK BY DRIVING WITH 140lb. HAMMER UNTIL REFUSAL.

NOTE:
THE GROUT WILL BE LEFT TO SET FOR 48hr. BEFORE DRILLING CAN CONTINUE. THE CONCRETE SEAL WILL BE HYDROSTATICALLY TESTED BY DRILLING THROUGH THE SET GROUT, STOPPING WHEN ROCK IS FIRST ENCOUNTERED. THE CASING WILL BE FILLED WITH WATER AND THE WATER LEVEL WILL BE MONITORED FOR 25min. IMPROPER SEALS WILL BE REGOUTED INSIDE THE 6" CASING.

figure 4.6

TYPICAL OVERBURDEN CASING INSTALLATION
OSI SUMMARY REPORT
Occidental Chemical Corporation–Buffalo Avenue Plant

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2583 (87) AUG 10/92 REV.0

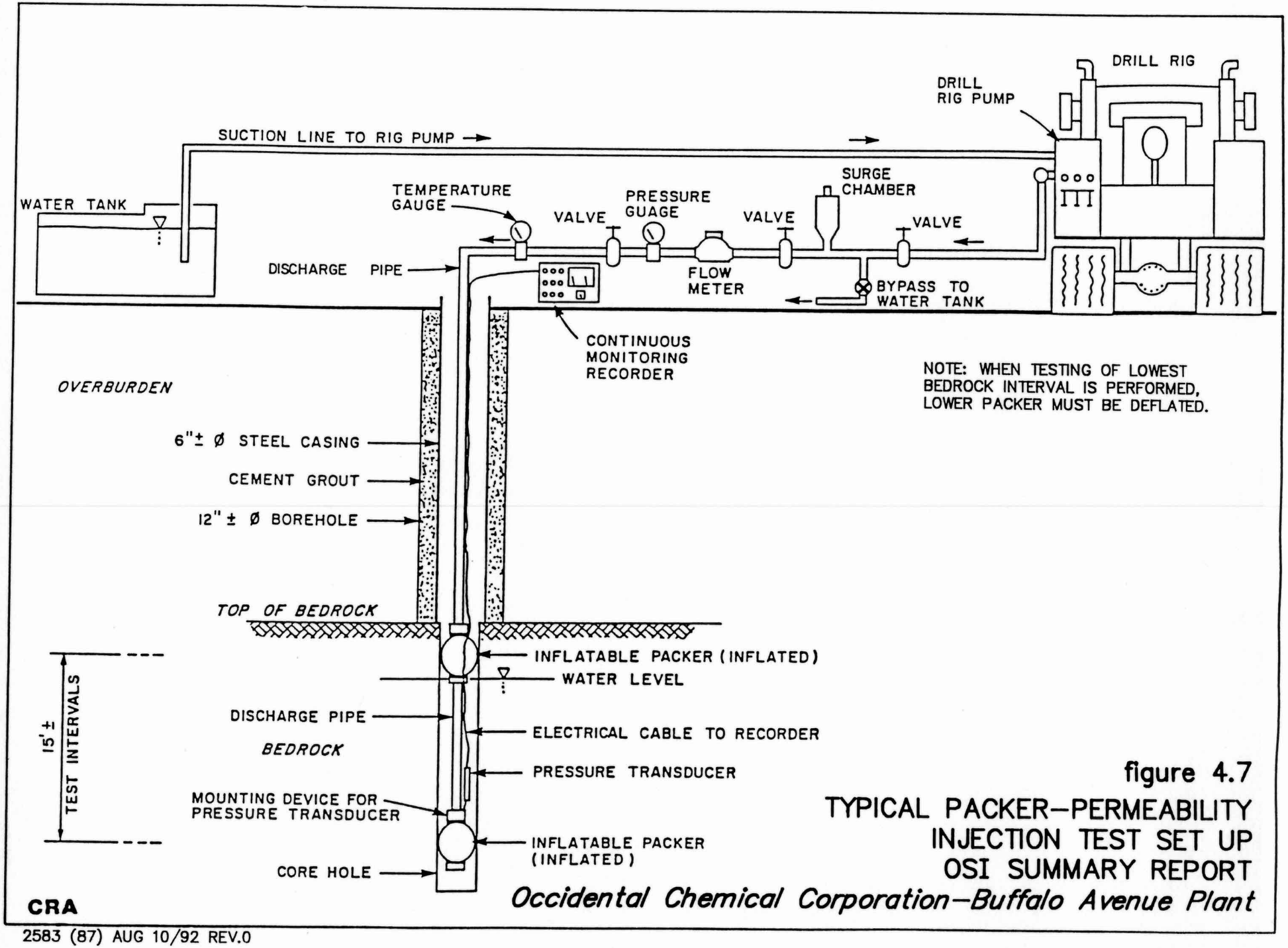
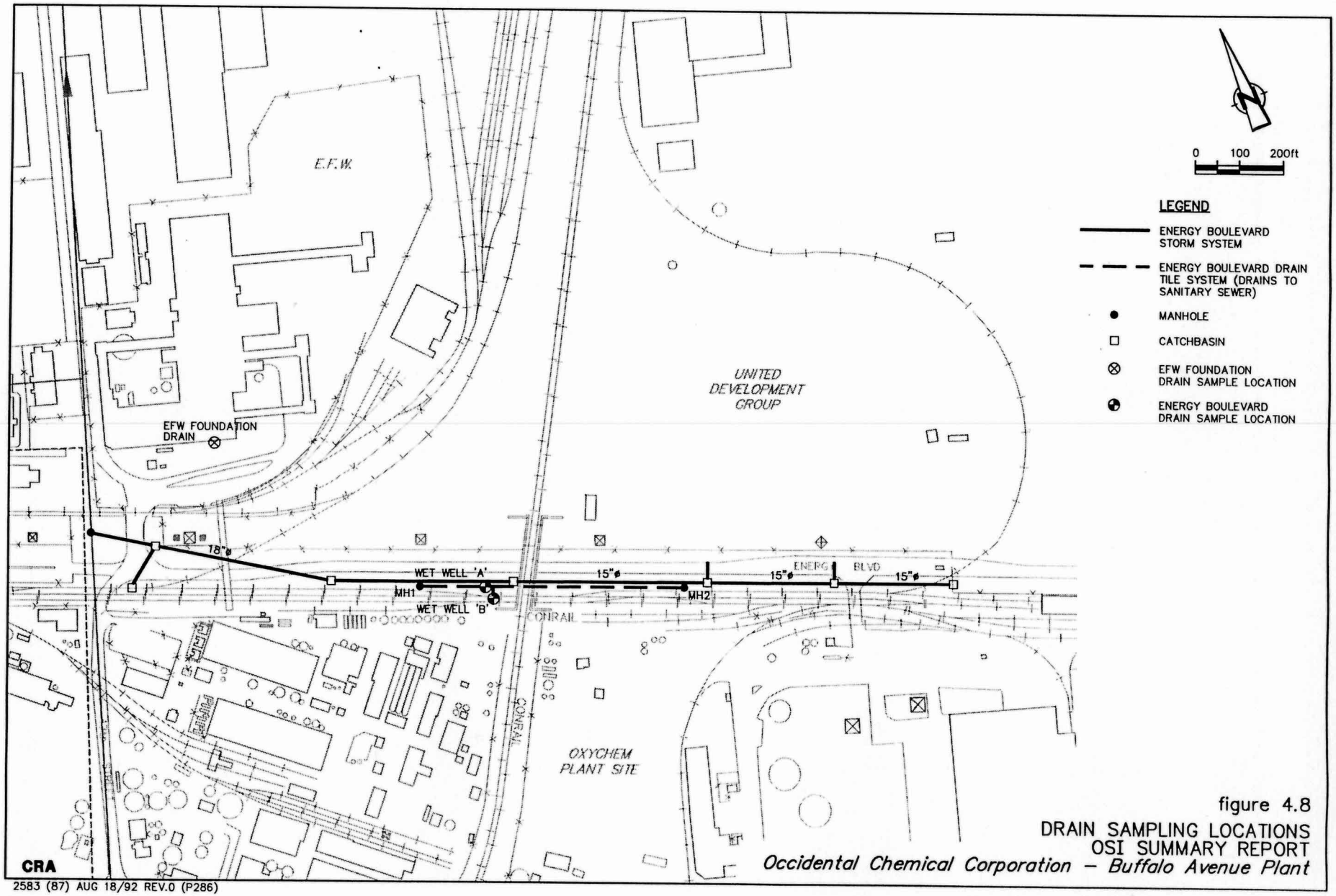


figure 4.7

TYPICAL PACKER–PERMEABILITY INJECTION TEST SET UP
OSI SUMMARY REPORT

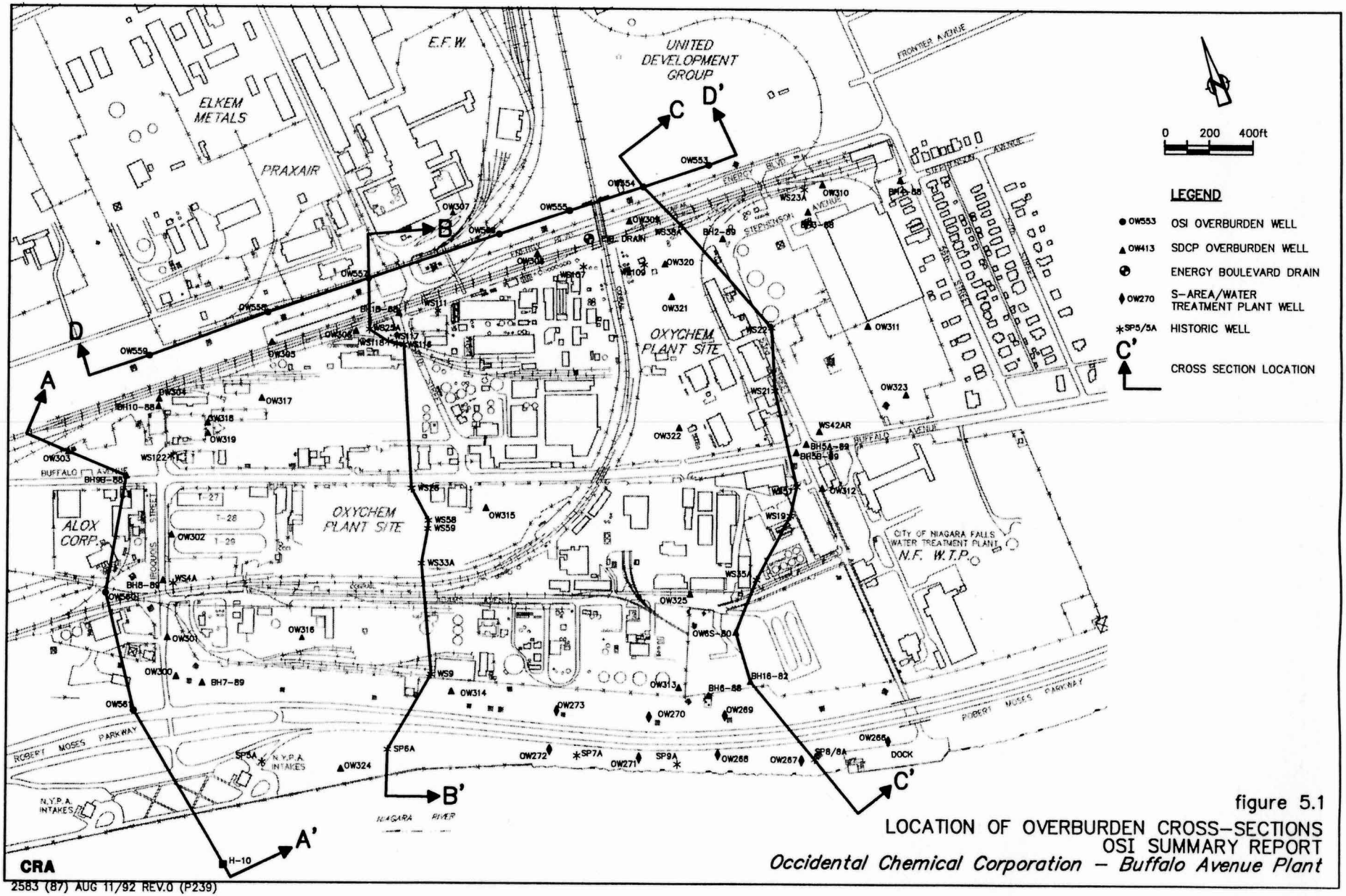
Occidental Chemical Corporation–Buffalo Avenue Plant

2583 (87) AUG 10/92 REV.0



2583 (87) AUG 18/92 REV.0 (P286)

figure 4.8
DRAIN SAMPLING LOCATIONS
OSI SUMMARY REPORT
Occidental Chemical Corporation – Buffalo Avenue Plant



CRA

2583 (87) AUG 11/92 REV.0 (P239)

figure 5.1

LOCATION OF OVERBURDEN CROSS-SECTIONS

OSI SUMMARY REPORT

Occidental Chemical Corporation – Buffalo Avenue Plant

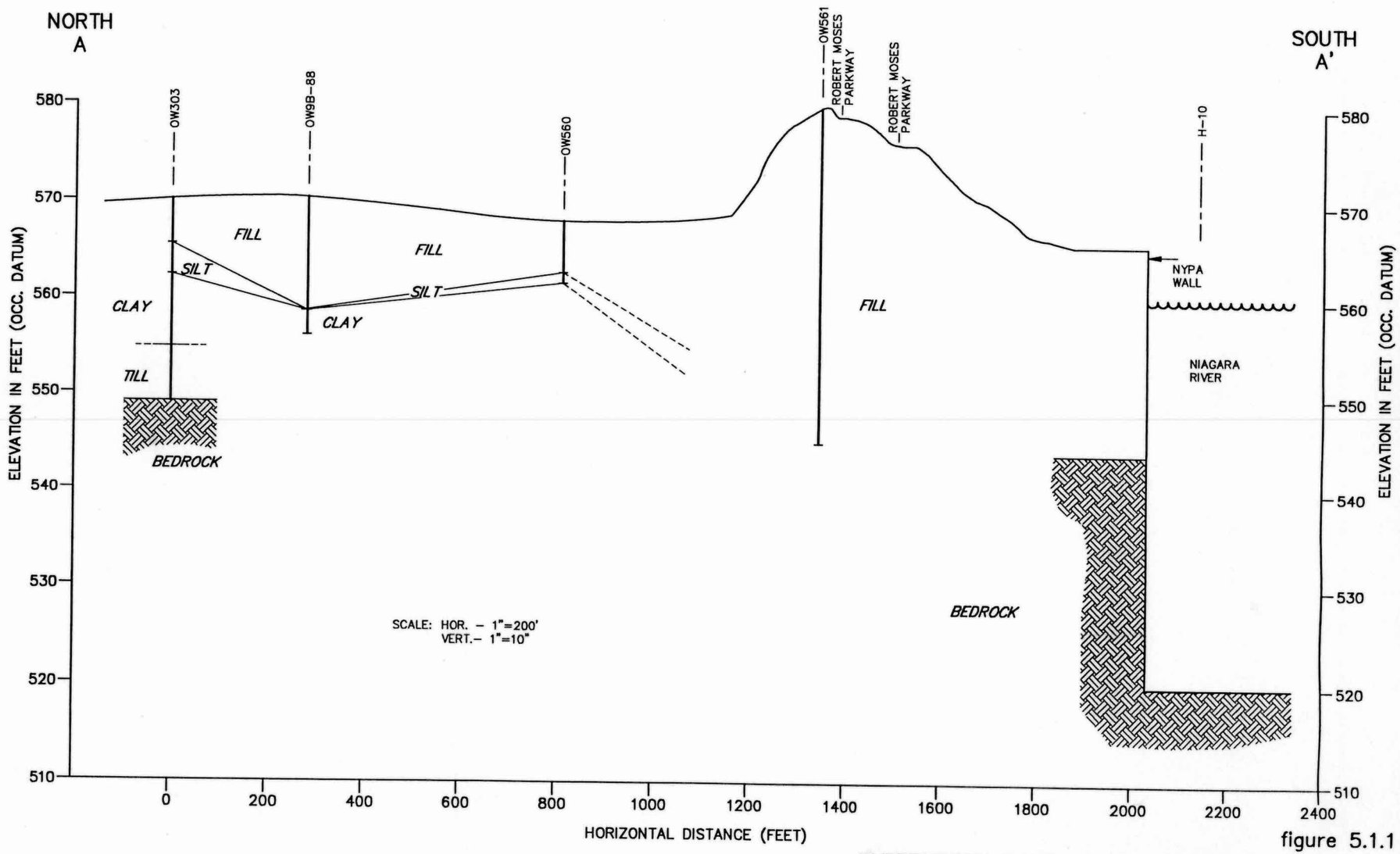


figure 5.1.1

OVERBURDEN NORTH-SOUTH CROSS-SECTION A-A'
OSI SUMMARY REPORT
Occidental Chemical Corporation - Buffalo Avenue Plant

CRA

2583 (87) AUG 17/92 REV.0 (X-46)

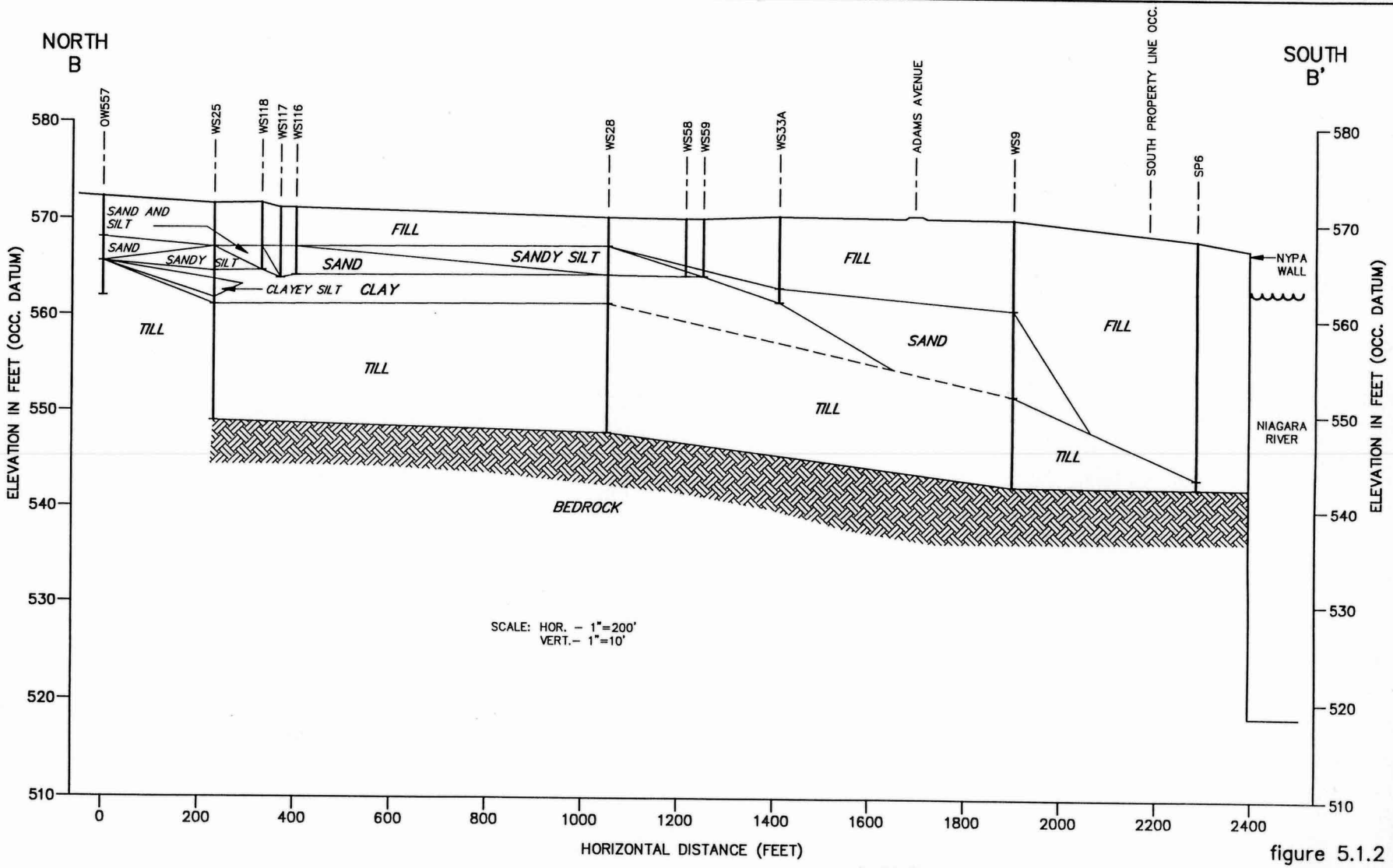


figure 5.1.2

OVERBURDEN NORTH–SOUTH CROSS–SECTION B–B'
OSI SUMMARY REPORT
Occidental Chemical Corporation – Buffalo Avenue Plant

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2583 (87) AUG 17/92 REV.0 (X–47)

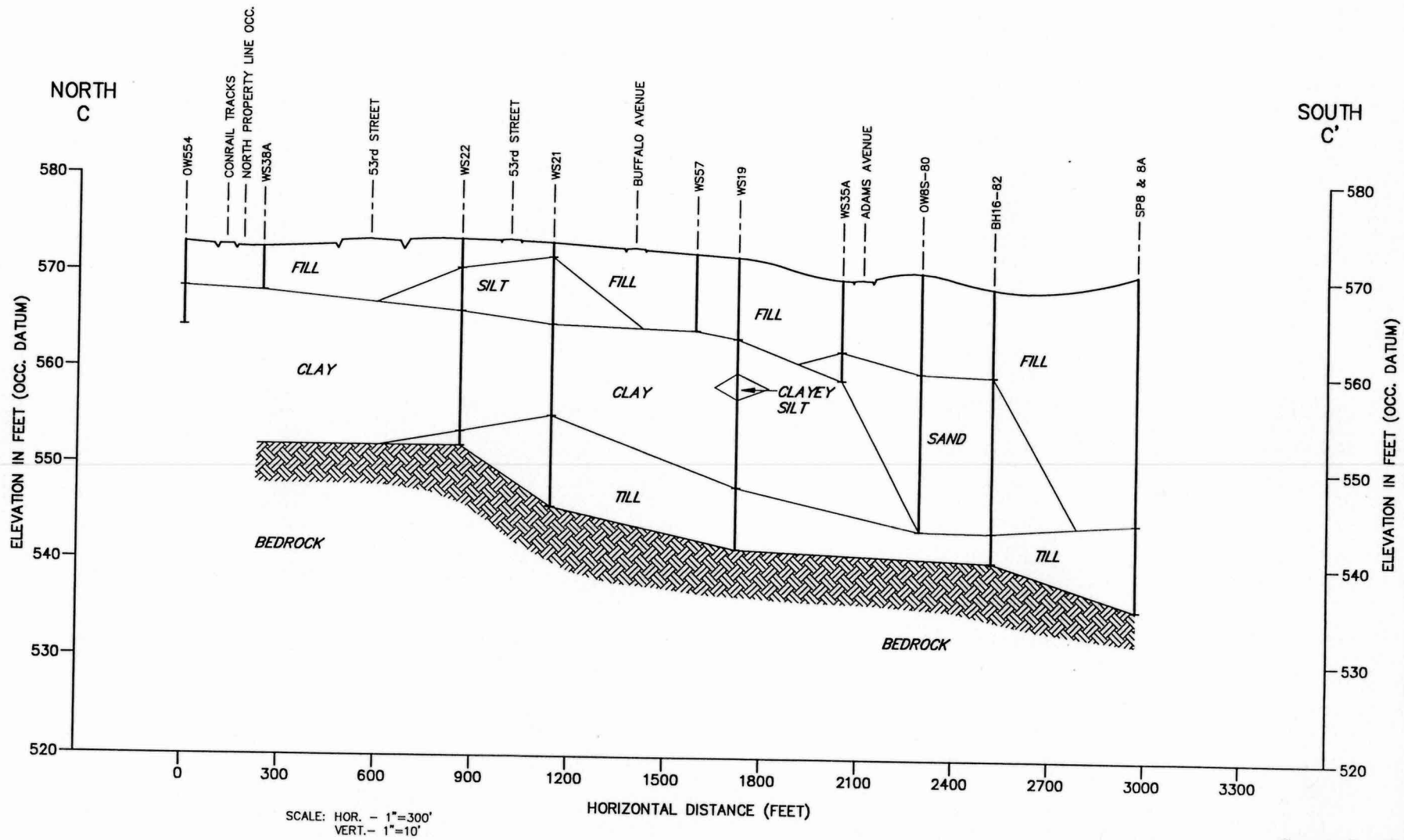
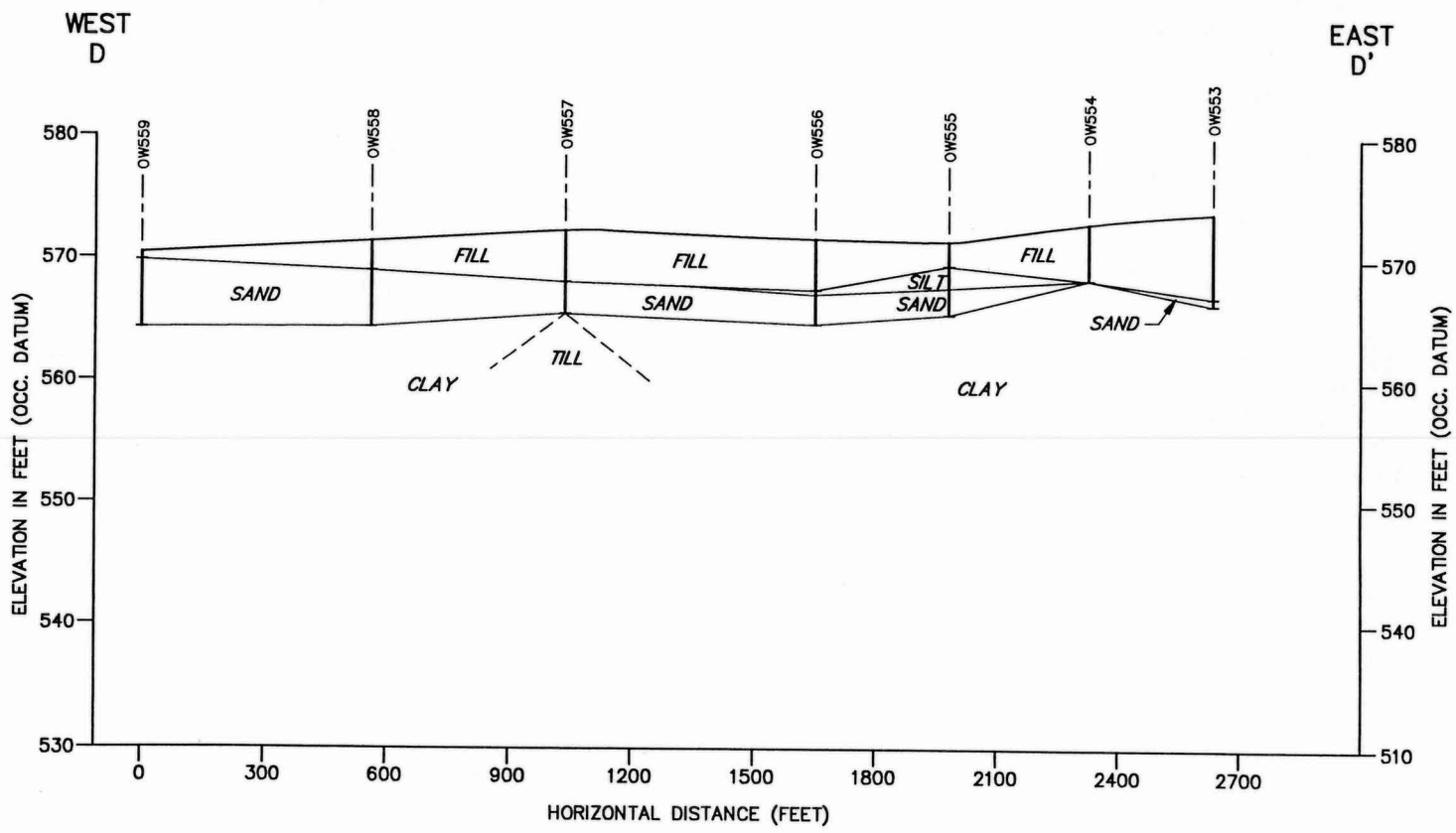


figure 5.1.3
OVERBURDEN NORTH-SOUTH CROSS-SECTION C-C'
OSI SUMMARY REPORT
Occidental Chemical Corporation - Buffalo Avenue Plant

CRA
2583 (87) AUG 19/92 REV.0 (X-48)



SCALE: HOR. – 1"=300'
VERT.– 1"=10'

figure 5.1.4
OVERBURDEN EAST–WEST CROSS–SECTION D–D'
OSI SUMMARY REPORT
Occidental Chemical Corporation – Buffalo Avenue Plant

CRA

2583 (87) AUG 08/92 REV.0 (X–49)

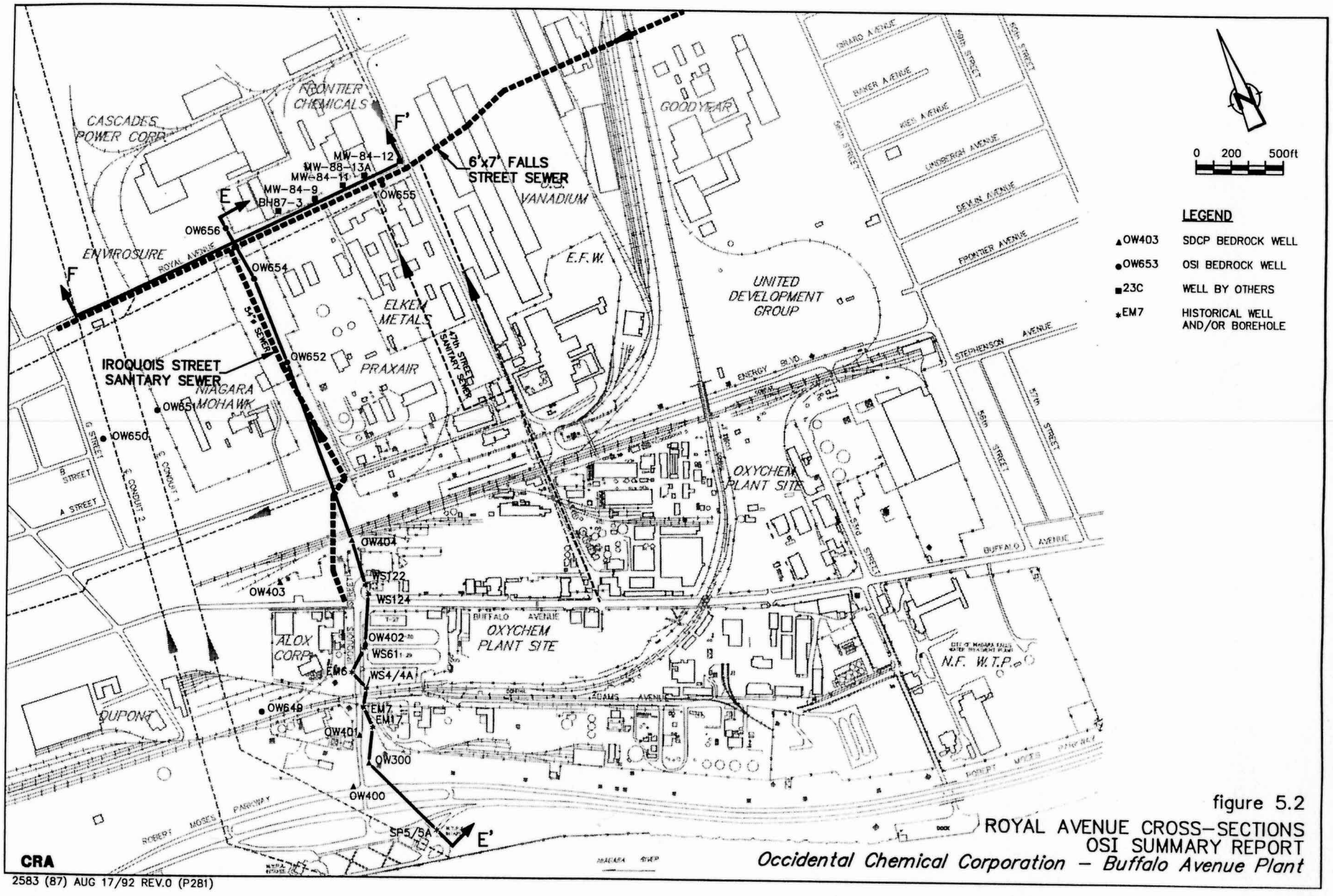
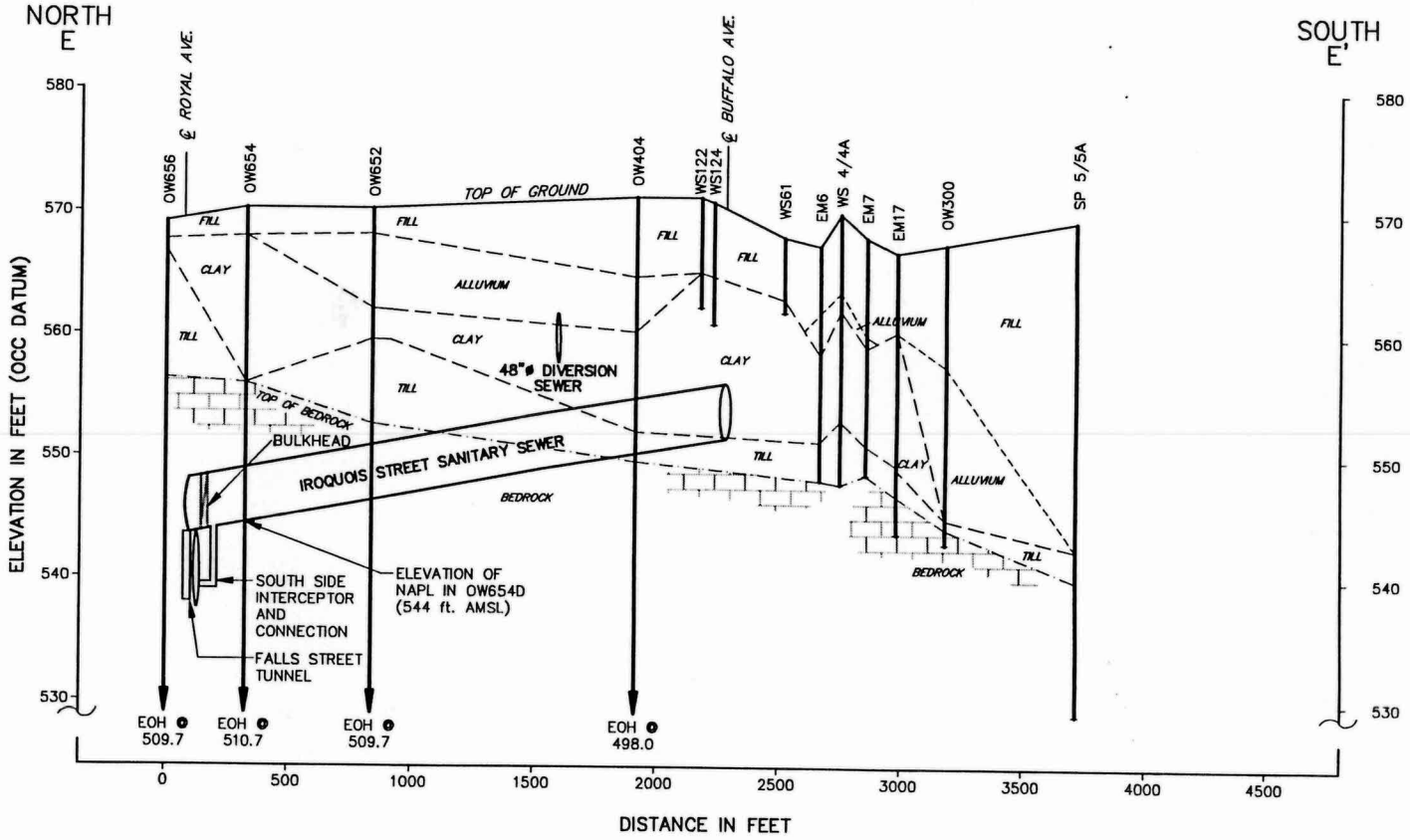


figure 5.2
ROYAL AVENUE CROSS-SECTIONS
OSI SUMMARY REPORT
Occidental Chemical Corporation – Buffalo Avenue Plant

CRA

2583 (87) AUG 17/92 REV.0 (P281)



NOTE:

EOH = END OF HOLE (FEET ABOVE OCC DATUM)

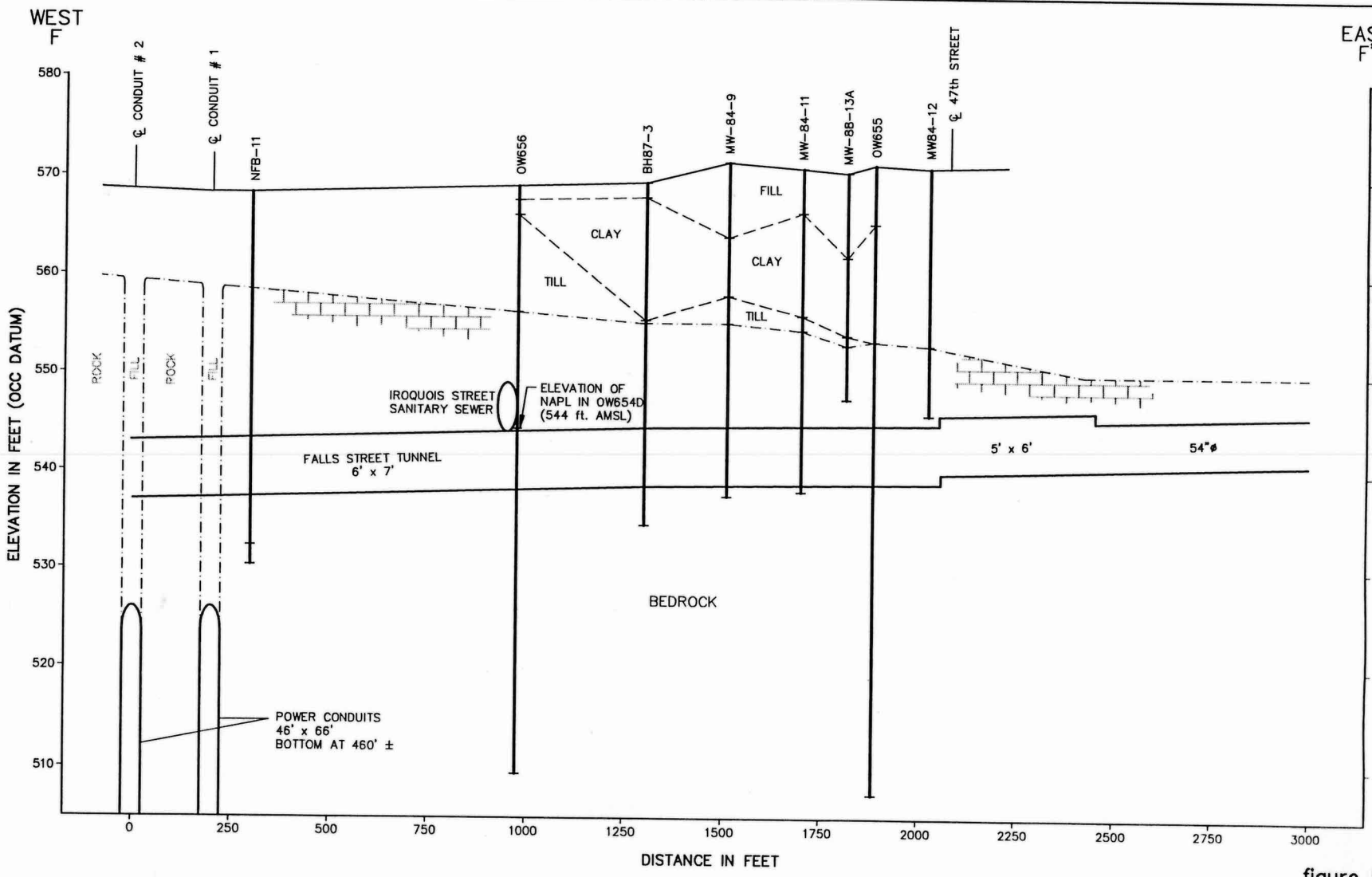
FALLS STREET TUNNEL AND SOUTH SIDE INTERCEPTOR HAVE BEEN EXAGGERATED IN WIDTH FOR CLARITY.

HORIZONTAL 1"=500'
VERTICAL 1"=10'

figure 5.2.1
CROSS-SECTION E-E'
OSI SUMMARY REPORT
Occidental Chemical Corporation–Buffalo Avenue Plant

CRA

2583 (87) AUG 17/92 REV.0 (X-52)



HORIZONTAL 1"=250'
VERTICAL 1"=10'

figure 5.2.2
CROSS-SECTION B-B'
OSI SUMMARY REPORT
Occidental Chemical Corporation–Buffalo Avenue Plant

CRA

2583 (87) AUG 18/92 REV.0 (X-51)