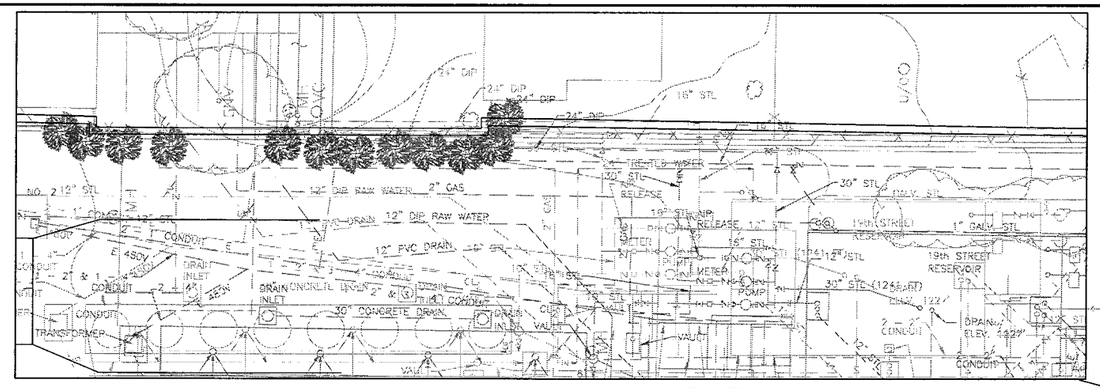
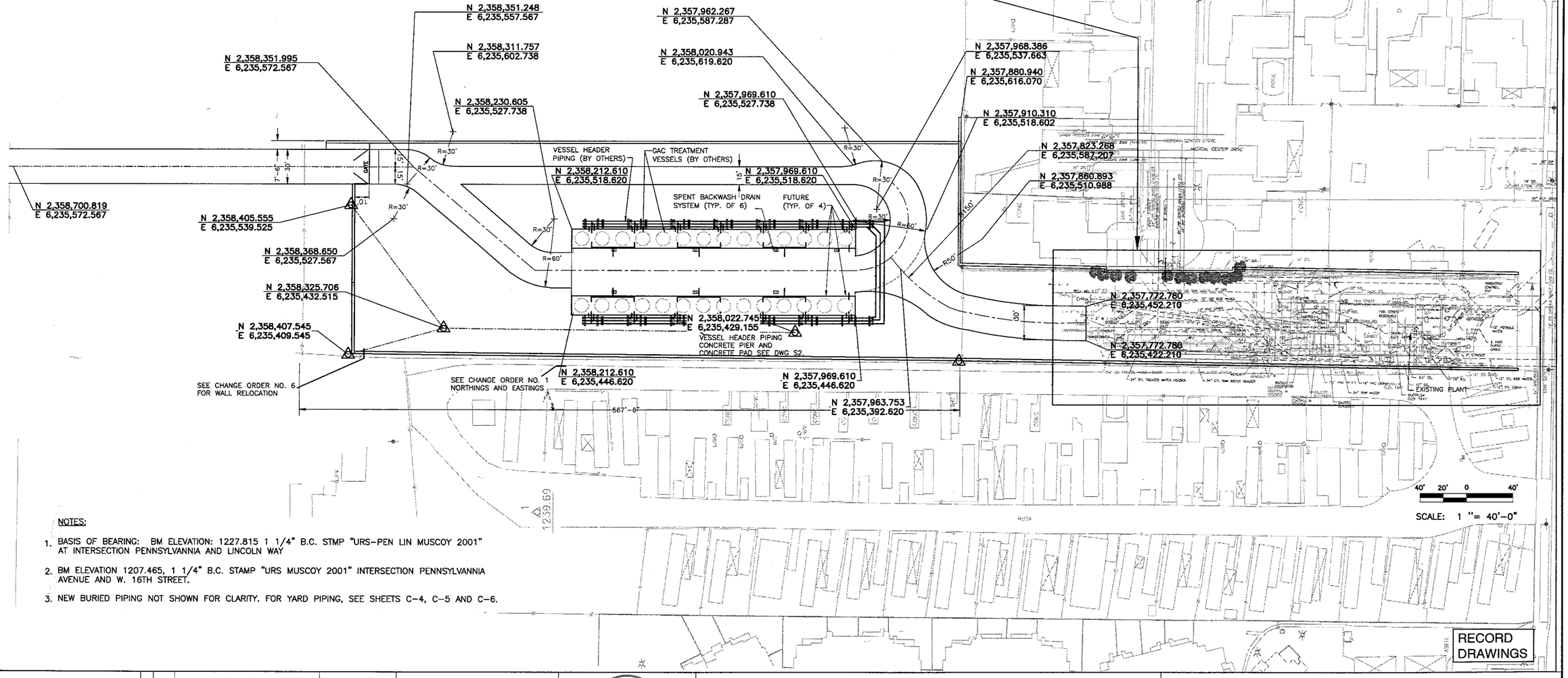


EXISTING UTILITIES IN EXISTING PLANT



NOTES:

1. BASIS OF BEARING: BM ELEVATION: 1227.815 1 1/4" B.C. STMP "URS-PEN LIN MUSCOY 2001" AT INTERSECTION PENNSYLVANNIA AND LINCOLN WAY
2. BM ELEVATION 1207.465, 1 1/4" B.C. STAMP "URS MUSCOY 2001" INTERSECTION PENNSYLVANNIA AVENUE AND W. 16TH STREET.
3. NEW BURIED PIPING NOT SHOWN FOR CLARITY. FOR YARD PIPING, SEE SHEETS C-4, C-5 AND C-6.

RECORD DRAWINGS

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	11/05	RECORD REVISION			

REVISIONS

DESIGNED BY: PAS
DRAWN BY: TG
CHECKED BY: DHD

URS
2870 Gateway Oaks Drive, Suite 300
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REGISTERED PROFESSIONAL ENGINEER
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No. 042917
Exp. 03-31-04
CIVIL
STATE OF CALIFORNIA

MUSCOY OU REMEDIAL DESIGN
19th STREET PLANT & ENCANTO PARK PUMPING PLANT
NEWMARK GROUNDWATER CONTAMINATION SUPERFUND SITE

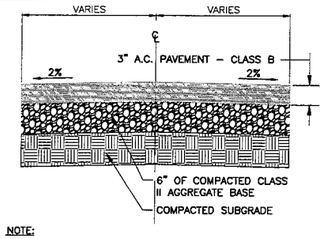
19TH STREET PLANT
SITE PLAN

SCALE:	DATE:	DWG. FILE:	SHEET NO.
1"=40'-0"	8/14/03	C1.DWG	C1

H:\CADD\Current\ENV-INFRA\Muscoy\Final Design_As Builts\C1.dwg May 24, 2006 - 10:15am
Last Save:May 24, 2006 - 9:06am
User:msteffinger
Plotted:May 24, 2006 - 10:15am
H:\CADD\Current\ENV-INFRA\Muscoy\Final Design_As Builts\C1.dwg

LEGEND

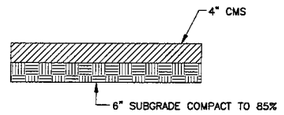
- PORTLAND CEMENT CONCRETE PAVEMENT
- AC PAVEMENT
- SUBGRADE
- CRUSHED MISCELLANEOUS BASS
- 1240 PROPOSED SURFACE CONTOUR LINE IN MSL (1FT INTERVAL)
- 1240 EXISTING CONTOUR LINE IN MSL (1FT INTERVAL)



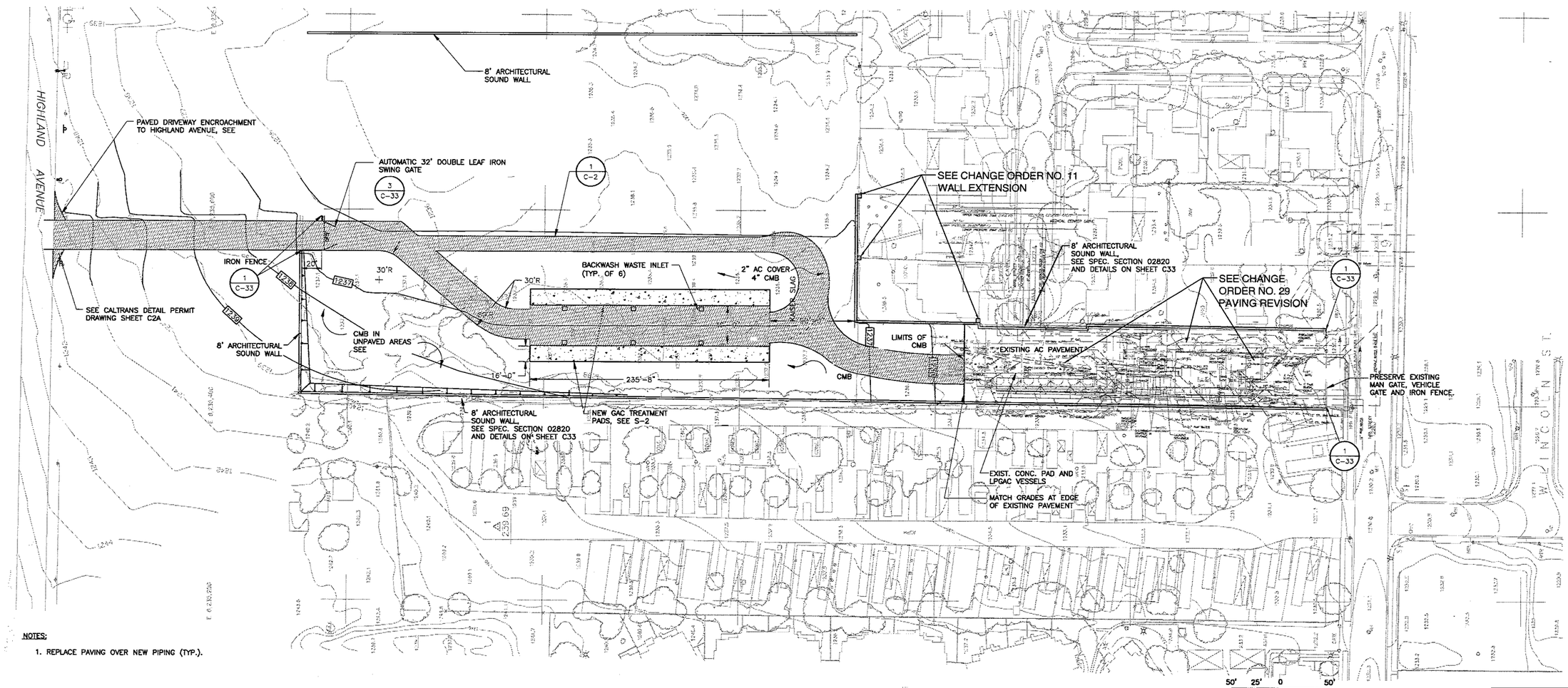
NOTE:

1. MATERIALS IN ACCORDANCE WITH THE LATEST "CALTRANS STANDARD SPECIFICATIONS"

ASPHALT CONCRETE PAVEMENT (1 / C-2)



CRUSHED MISCELLANEOUS BASS (2 / C-2)



NOTES:

1. REPLACE PAVING OVER NEW PIPING (TYP.).

50' 25' 0 50'

SCALE: 1 "= 50'-0"

RECORD DRAWINGS

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	11/05	RECORD REVISION			

REVISIONS

DESIGNED BY: PAS
DRAWN BY: LOB
CHECKED BY: DHD

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2670 Gateway Oaks Drive, Suite 300
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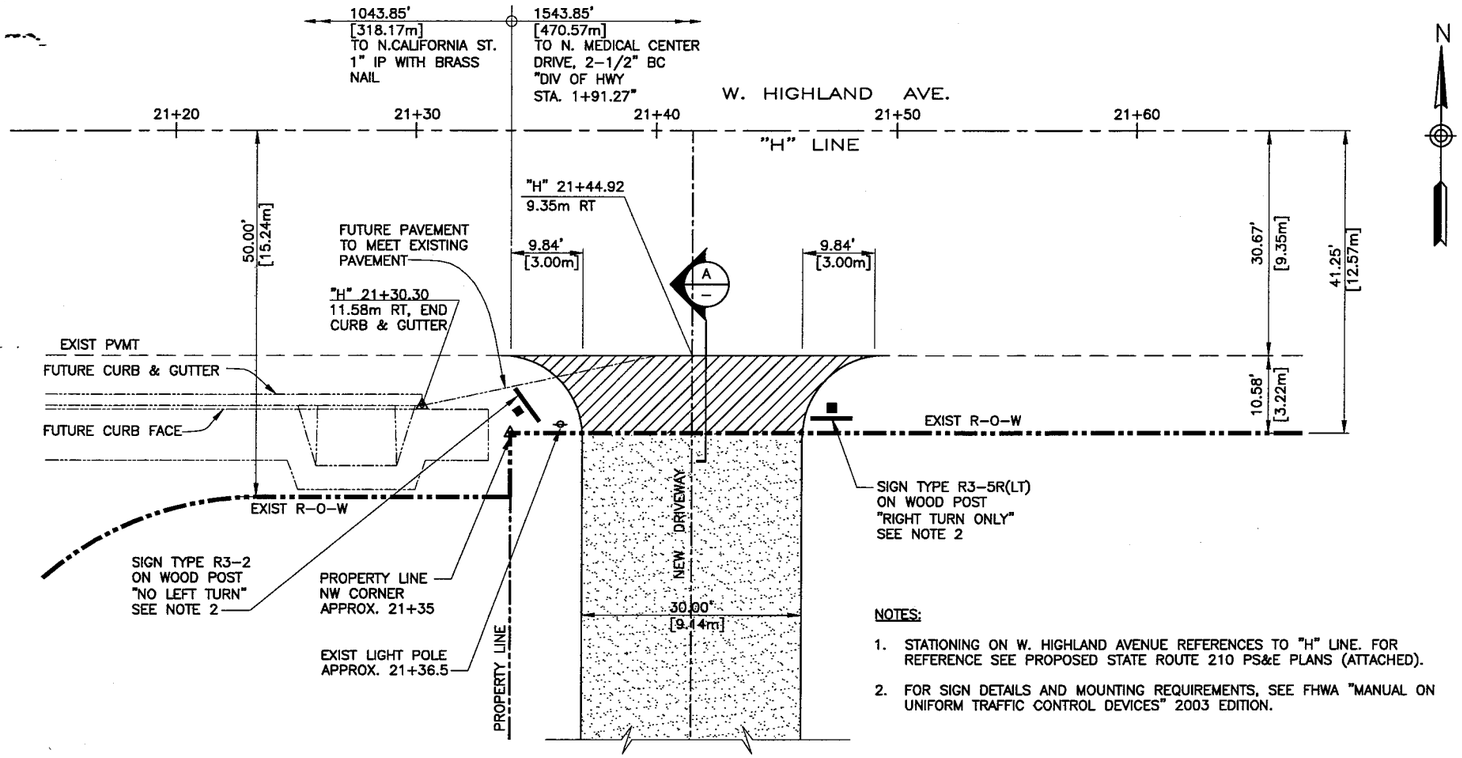
MUSCOY OU REMEDIAL DESIGN
19th STREET TREATMENT PLANT & ENCANTO PARK PUMPING PLANT
NEWMARK GROUNDWATER CONTAMINATION SUPERFUND SITE

19TH STREET PLANT
SITE GRADING, PAVING, AND FENCING

SCALE:	DATE:	DWG. FILE:	SHEET NO.
1" = 40'-0"	8/14/03	C2.DWG	C2

H:\CADD\Current\ENV-INFRA\Muscoy\Final Design_As Builts\C2.dwg User:msteffinger Plotted:May 24, 2006 – 10:15am Last Save:May 24, 2006 – 9:08am

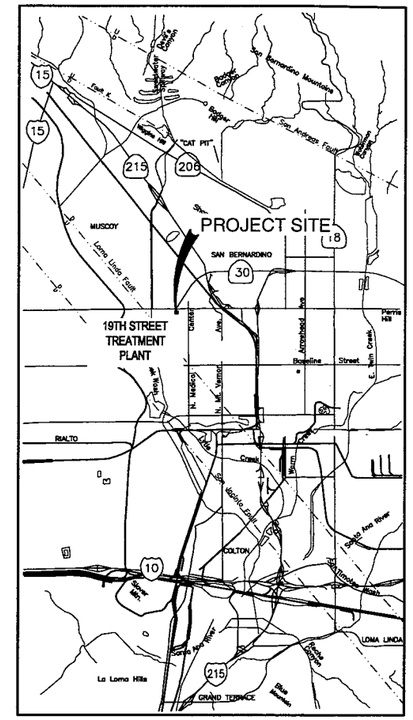


ENCROACHMENT PLAN

NOT TO SCALE

NOTES:

1. STATIONING ON W. HIGHLAND AVENUE REFERENCES TO "H" LINE. FOR REFERENCE SEE PROPOSED STATE ROUTE 210 PS&E PLANS (ATTACHED).
2. FOR SIGN DETAILS AND MOUNTING REQUIREMENTS, SEE FHWA "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" 2003 EDITION.



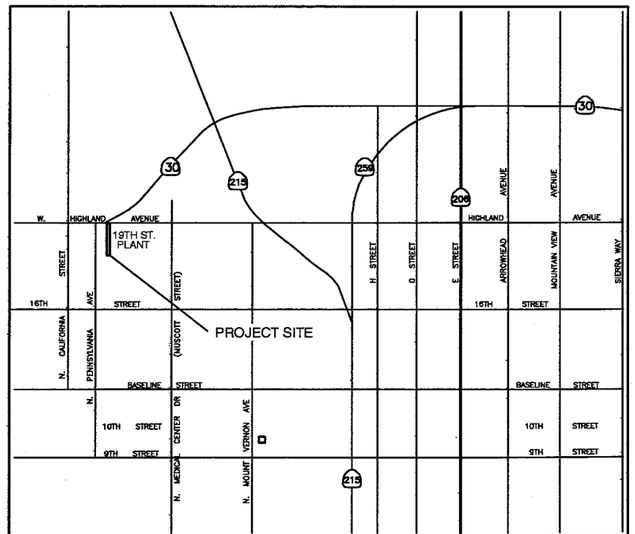
VICINITY MAP

LEGEND

- ENCROACHMENT AREA
- EXIST. CONC PAVEMENT
- COMPACTED FILL
- NEW AC PAVEMENT

SECTION A-A

NOT TO SCALE



LOCATION MAP

THIS DRAWING IS SUPPLEMENTED BY FHWA "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" 2003 EDITION

REGISTERED PROFESSIONAL ENGINEER — PAUL A. SCHULTZ — No. 042917 — Exp. 03-31-04 — CIVIL — STATE OF CALIFORNIA

RECORD DRAWINGS

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	11/05	RECORD REVISION			

REVISIONS

DESIGNED BY: W. HUANG	DATE: 27JUL04
DRAWN BY: C. GUERRERO	SCALE: AS NOTED
CHECKED BY: K. VELDMAN	CADD FILENAME: C1.DWG

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MUSCOY OU REMEDIAL DESIGN
19th STREET PLANT & ENCANTO PARK PUMPING PLANT
NEWMARK GROUNDWATER CONTAMINATION SUPERFUND SITE

APPROVED

S.B.M.W.D. / ENGINEER REGISTERED CIVIL ENGINEER NO.

CONSTRUCTION ORDER #

CITY OF SAN BERNARDINO
MUNICIPAL WATER DEPARTMENT
300 N. 'D' STREET, SAN BERNARDINO, CA 92418 • (909) 384-5391

MUSCOY TREATMENT PLANT DRIVEWAY
CALTRANS ENCROACHMENT PERMIT

DWG NO. C2A

H:\CADD\Current\ENV-INFRA\Muscoy\Final Design_As Builts\C2A.dwg User:msteffinger Plotted:May 24, 2006 - 10:15am Last Save:May 24, 2006 - 9:12am

LEGEND:

EXISTING CHAIN LINK FENCE

EXISTING FENCE TO BE REMOVED

NOTES:

1. REMOVE PAVING AS REQUIRED TO INSTALL NEW PIPING.
2. REMOVE PAVING AS REQUIRED TO CONSTRUCT DRIVEWAY ENCOACHMENT ON HIGHLAND AVENUE.
3. CONTRACTOR TO COORDINATE DEMOLITION OF EXISTING PIPING REQUIRED TO FACILITATE NEW CONSTRUCTION WITH THE CITY OF SAN BERNARDINO.

HIGHLAND AVENUE

20TH STREET

PRESERVE EXISTING FENCE/ CORNER

REMOVE EXISTING BLOCK WALL

REMOVE EXISTING CHAIN LINK FENCE AND GATE

REMOVE EXISTING FENCE

PRESERVE EXISTING MAN GATE, VEHICLE GATE AND IRON FENCE

REMOVE EXIST. CHAIN LINK FENCE W/ SECURITY SLATS

REMOVE EXISTING VEGETATION AS REQUIRED TO EXECUTE WORK

REMOVE EXISTING FENCE AS REQUIRED TO EXECUTE WORK

40' 20' 0 40'

SCALE: 1 "= 40'-0"

RECORD DRAWINGS

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	11/05	RECORD REVISION			

REVISIONS

DESIGNED BY: PAS

DRAWN BY: LOB

CHECKED BY: DHD

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STATE OF CALIFORNIA

MUSCOY OU REMEDIAL DESIGN
19th STREET PLANT & ENCANTO PARK PUMPING PLANT
NEWMARK GROUNDWATER CONTAMINATION SUPERFUND SITE

19TH STREET PLANT SITE DEMOLITION PLAN

SCALE:	DATE:	DWG. FILE:	SHEET NO.
AS NOTED	8/14/03	C3.DWG	C3

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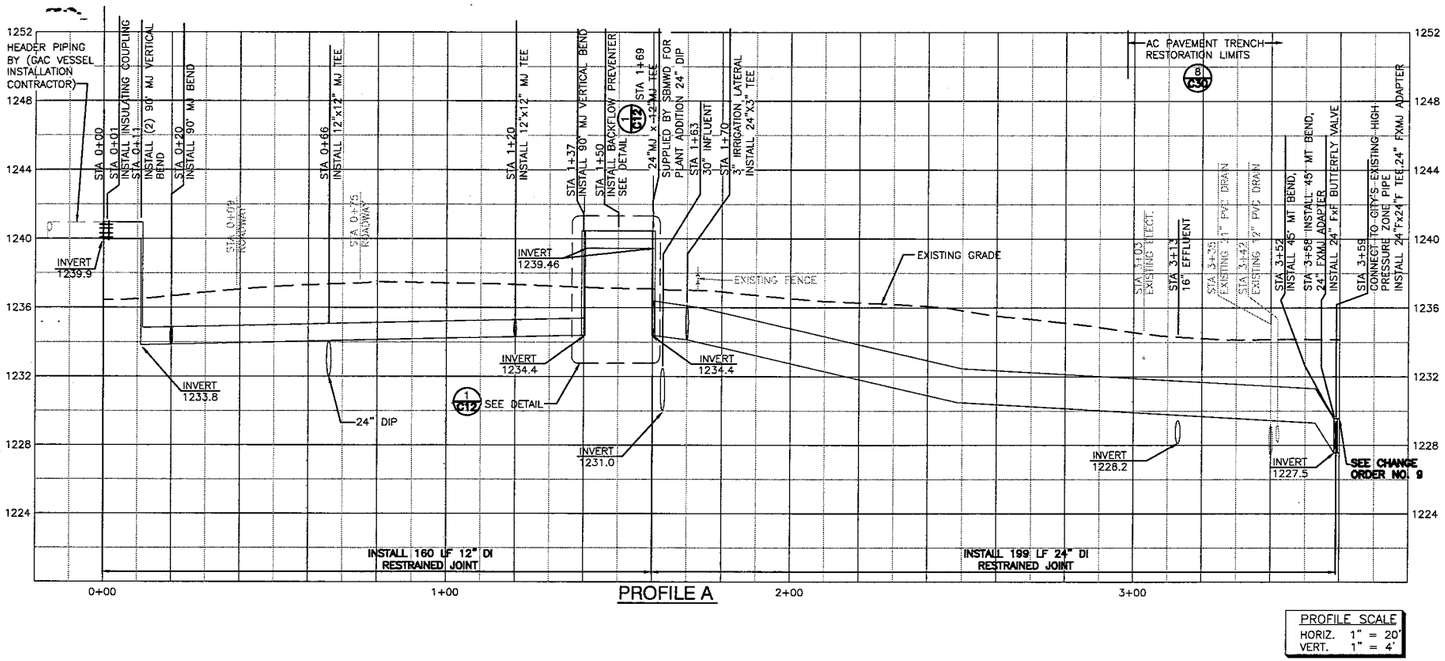
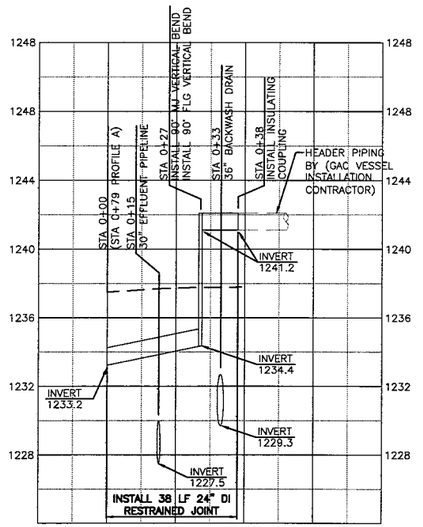


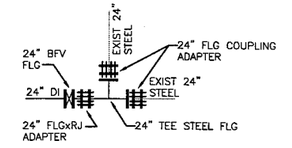
PROFILE A

PROFILE SCALE	
HORIZ.	1" = 20'
VERT.	1" = 4'

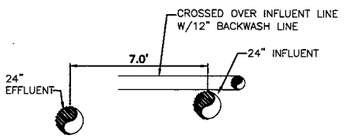


PROFILE B

PROFILE SCALE	
HORIZ.	1" = 20'
VERT.	1" = 4'



DETAIL A N.T.S.

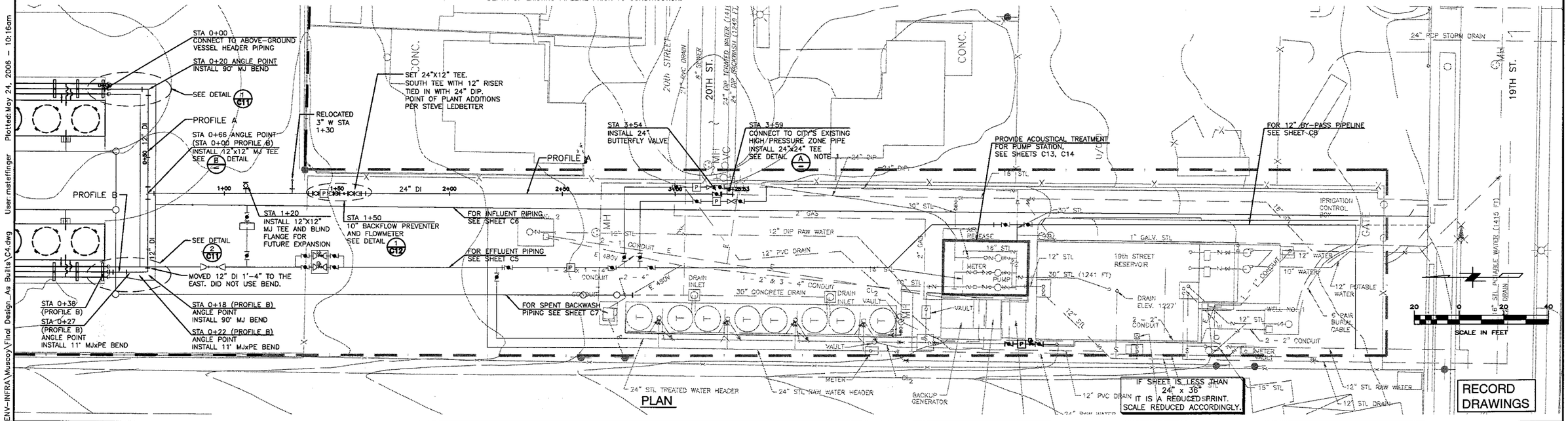


PROFILE DETAIL B N.T.S.

BACKWASH SUPPLY PIPELINE COORDINATE TABLE

STATION	NORTHING	EASTING
STA 0+00	2357969.74	6235523.18
STA 0+20	2357950.24	6235523.18
STA 0+84	2357950.24	6235476.77
STA 1+51	2357882.92	6235458.96
STA 1+69	2357882.92	6235476.77
STA 3+59	2357693.10	6235476.77
STA 0+00 (PROFILE B)	2357950.24	6235458.96
STA 0+18 (PROFILE B)	2357950.24	6235440.77
STA 0+22 (PROFILE B)	2357954.04	6235440.77
STA 0+27 (PROFILE B)	2357958.64	6235441.69
STA 0+38 (PROFILE B)	2357969.74	6235441.69

NOTE:
1. CONTRACTOR TO FIELD VERIFY MATERIAL, DIAMETER, AND DEPTH OF EXISTING PIPELINE PRIOR TO CONSTRUCTION.



PLAN

IF SHEET IS LESS THAN 24" x 36" IT IS A REDUCED PRINT. SCALE REDUCED ACCORDINGLY.

RECORD DRAWINGS

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	11/05	RECORD REVISION			

REVISIONS

DESIGNED BY: PAS
DRAWN BY: CAS
CHECKED BY: DHD

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2870 Gateway Oaks Drive, Suite 300
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MUSCOY OU REMEDIAL DESIGN
19th STREET PLANT & ENCANTO PARK PUMPING PLANT
NEWMARK GROUNDWATER CONTAMINATION SUPERFUND SITE

19TH STREET PLANT
BACKWASH SUPPLY PIPELINE PLAN & PROFILE

SCALE	DATE	DWG. FILE	SHEET NO.
AS NOTED	8/14/03	C4.DWG	C4

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Last Save:May 24, 2006 - 9:18am
Plotted:May 24, 2006 - 10:16am
User:mstelfinger
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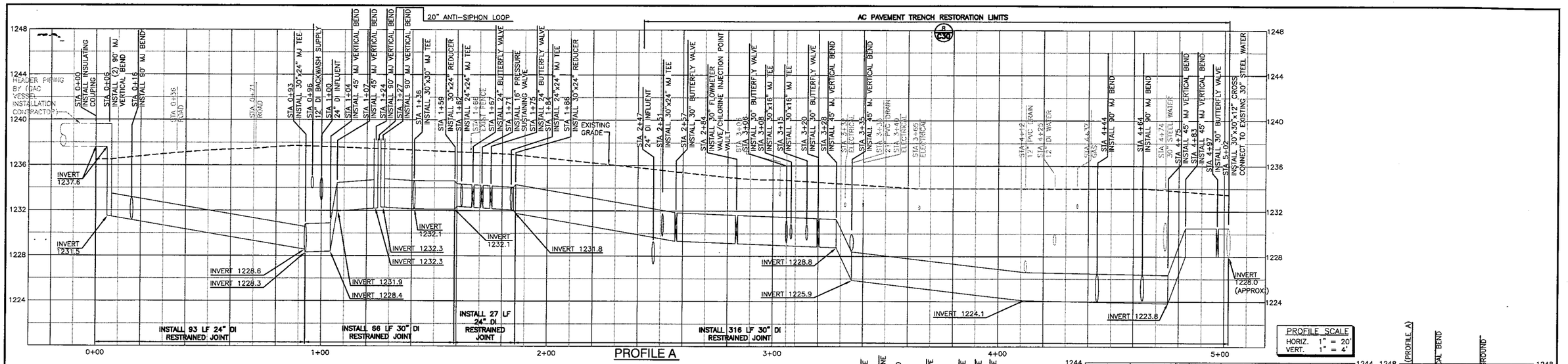


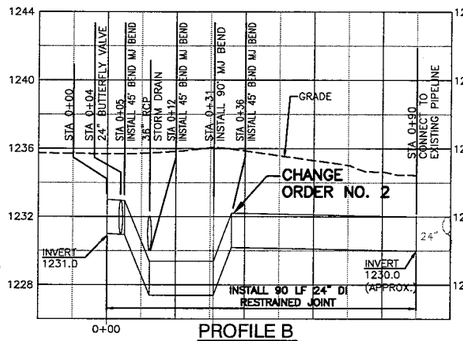
PROFILE A

PROFILE SCALE
HORIZ. 1" = 20'
VERT. 1" = 4'

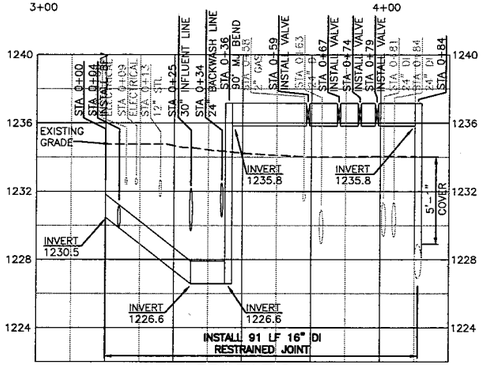
EFFLUENT PIPELINE COORDINATE TABLE

STATION	NORTHING	EASTING
STA 0+00	2357969.74	6235520.85
STA 0+16	2357953.74	6235520.85
STA 0+93	2357953.74	6235444.02
STA 1+41	2357905.99	6235444.02
STA 1+62	2357884.49	6235444.02
STA 1+84	2357863.03	6235444.02
STA 2+51	2357795.23	6235444.02
STA 3+08	2357738.49	6235444.02
STA 3+15	2357731.49	6235444.02
STA 4+44	2357602.09	6235444.02
STA 4+64	2357602.09	6235463.10
STA 5+02	2357564.00	6235463.10

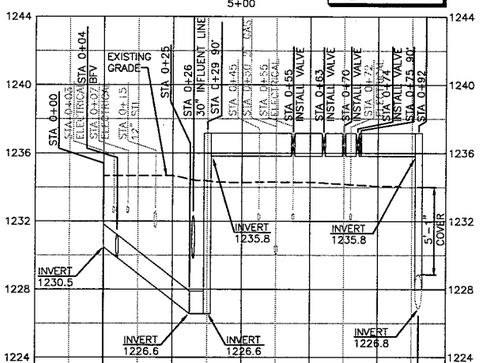
STATION	NORTHING	EASTING
STA 0+00 (PROFILE B)	2357795.23	6235444.02
STA 0+31 (PROFILE B)	2357795.23	6235412.64
STA 0+90 (PROFILE B)	2357736.99	6235412.64
STA 0+00 (PROFILE C)	2357738.49	6235444.02
STA 0+36 (PROFILE C)	2357738.49	6235479.86
STA 0+84 (PROFILE C)	2357683.81	6235479.84
STA 0+00 (PROFILE D)	2357731.49	6235444.02
STA 0+29 (PROFILE D)	2357731.49	6235473.51
STA 0+75 (PROFILE D)	2357675.47	6235473.51
STA 0+92 (PROFILE D)	2357675.47	6235479.81
STA 0+00 (PROFILE E)	2357969.77	6235444.02
STA 0+16 (PROFILE E)	2357953.74	6235444.02



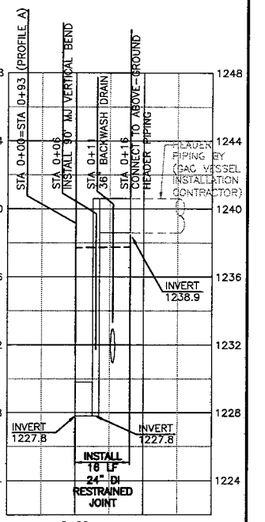
PROFILE B



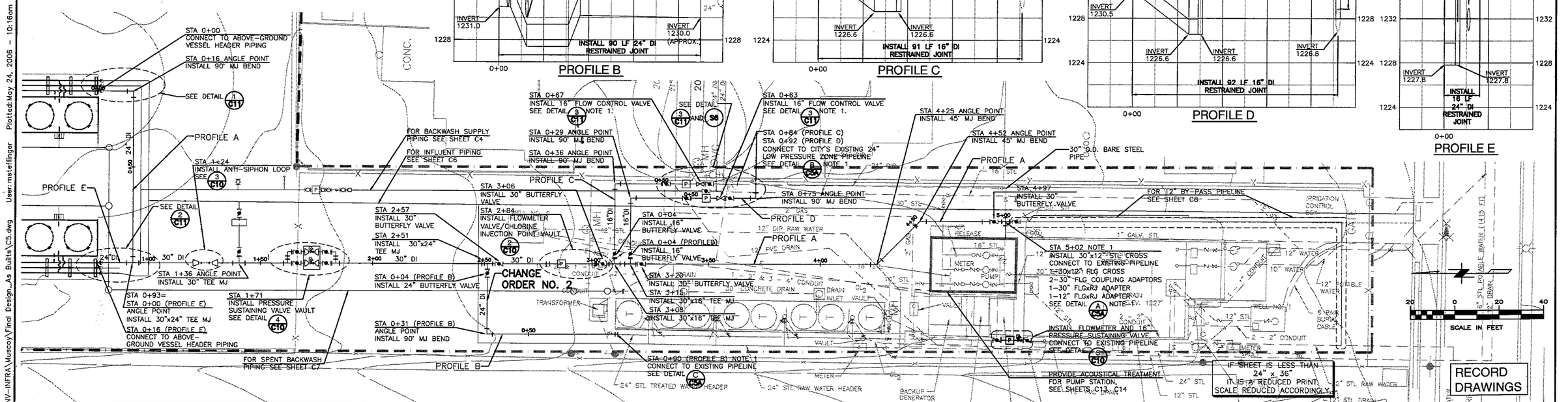
PROFILE C



PROFILE D



PROFILE E



NO.	DATE	DESCRIPTION
1	11/05	RECORD REVISION

REVISIONS

DESIGNED BY: PAS
DRAWN BY: CAS
CHECKED BY: DHD

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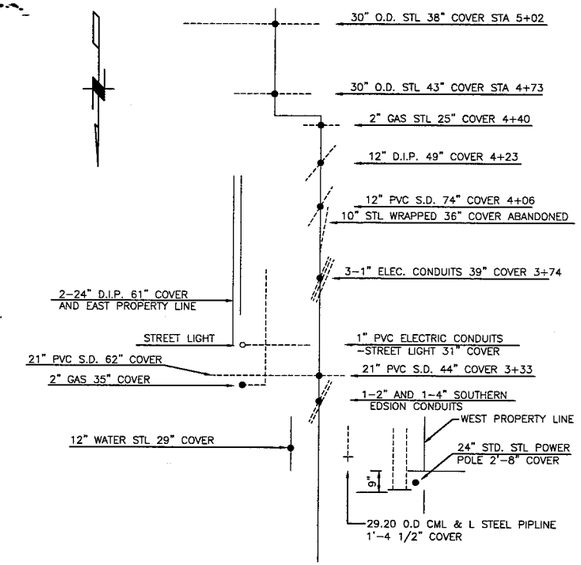
MUSCOY OU REMEDIAL DESIGN
19th STREET PLANT & ENCANTO PARK PUMPING PLANT
NEWMARK GROUNDWATER CONTAMINATION SUPERFUND SITE

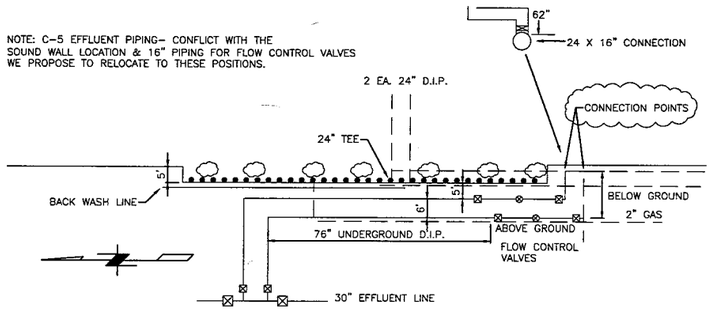
19TH STREET PLANT
EFFLUENT PIPELINE PLAN & PROFILE

SCALE:	DATE:	DWG. FILE:	SHEET NO:
AS NOTED	8/14/03	C5.DWG	C5

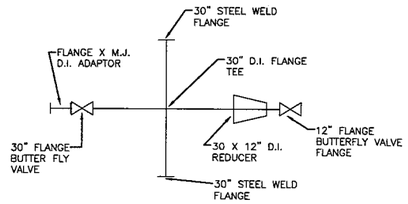


EXISTING TREATMENT PLANT UTILITY PIPE LINES
N.T.S.

NOTE: C-5 EFFLUENT PIPING- CONFLICT WITH THE SOUND WALL LOCATION & 16" PIPING FOR FLOW CONTROL VALVES WE PROPOSE TO RELOCATE TO THESE POSITIONS.

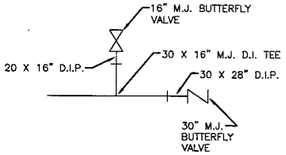


SEE CHANGE ORDER NO. 12
N.T.S.



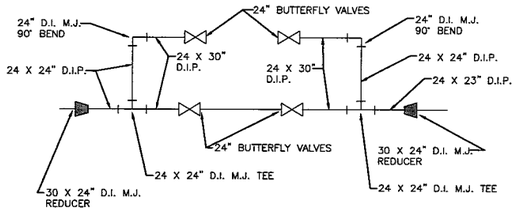
STATION NO. 5+02 APPROX.

DETAIL (A / C5)
N.T.S.



STATION NO. 3+14 APPROX

DETAIL (B / C5)
N.T.S.



PRESSURE SUSTAINING VALVE PIPE SYSTEM

DETAIL (C / C5)
N.T.S.

IF SHEET IS LESS THAN
24" x 36"
IT IS A REDUCED PRINT.
SCALE REDUCED ACCORDINGLY.

RECORD
DRAWINGS

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	11/05	RECORD REVISION			

REVISIONS

DESIGNED BY: PAS
DRAWN BY: CAS
CHECKED BY: DHD

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MUSCOY OU REMEDIAL DESIGN
19th STREET PLANT & ENCANTO PARK PUMPING PLANT
NEWMARK GROUNDWATER CONTAMINATION SUPERFUND SITE

19TH STREET PLANT
EFFLUENT PIPELINE DETAILS

SCALE:	DATE:	DWG. FILE:	SHEET NO.
AS NOTED	8/14/03	C5A.DWG	C5A

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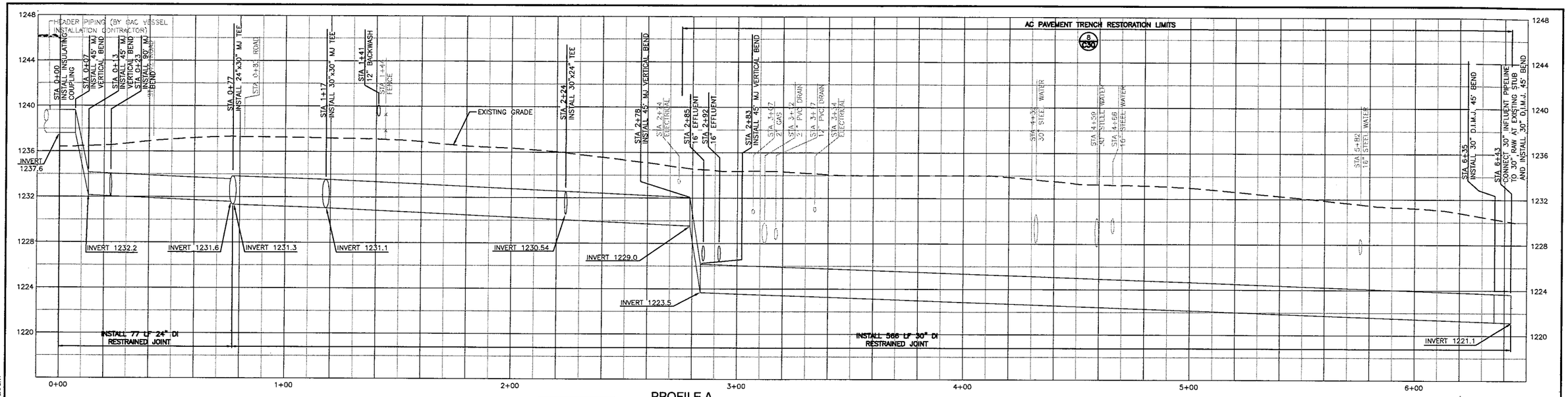
User:mstefinger Plotted:May 24, 2006 - 10:17am



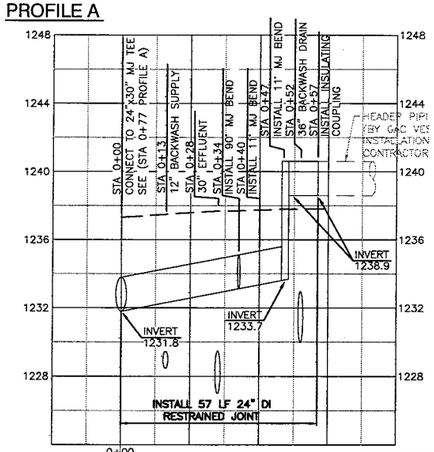
INFLUENT PIPELINE COORDINATE TABLE

STATION	NORTHING	EASTING
STA 0+00	2357969.74	6235525.52
STA 0+23	2357946.74	6235525.52
STA 0+77	2357946.74	6235471.77
STA 1+17	2357906.02	6235471.77
STA 6+43	2357380.98	6235466.85
STA 0+00 (PROFILE B)	2357946.74	6235471.77
STA 0+34 (PROFILE B)	2357946.74	6235438.07
STA 0+40 (PROFILE B)	2357953.22	6235438.07
STA 0+47 (PROFILE B)	2357959.69	6235439.36
STA 0+57 (PROFILE B)	2357969.74	6235439.36
STA 0+00 (PROFILE C)	2357906.02	6235471.42
STA 0+28 (PROFILE C)	2357905.99	6235444.02

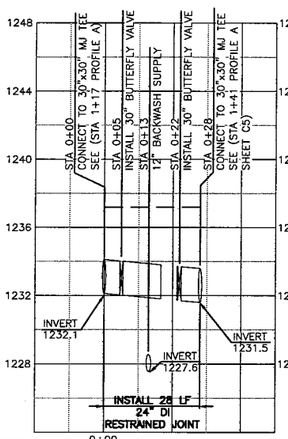
PROFILE SCALE
HORIZ. 1" = 20'
VERT. 1" = 4'

NOTE:
1. CONTRACTOR TO FIELD VERIFY MATERIAL, DIAMETER, AND DEPTH OF EXISTING PIPELINE PRIOR TO CONSTRUCTION.

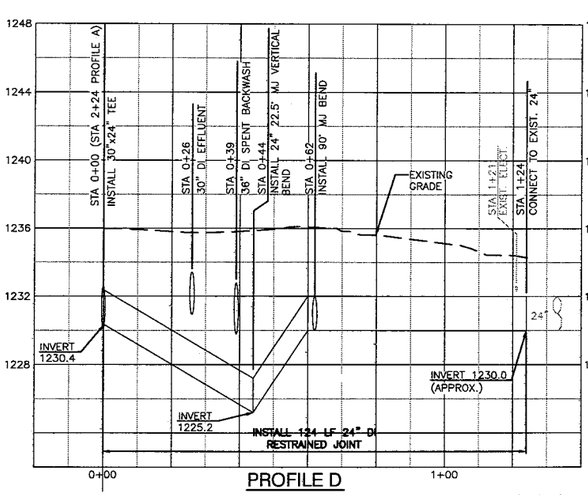
PROFILE A



PROFILE B

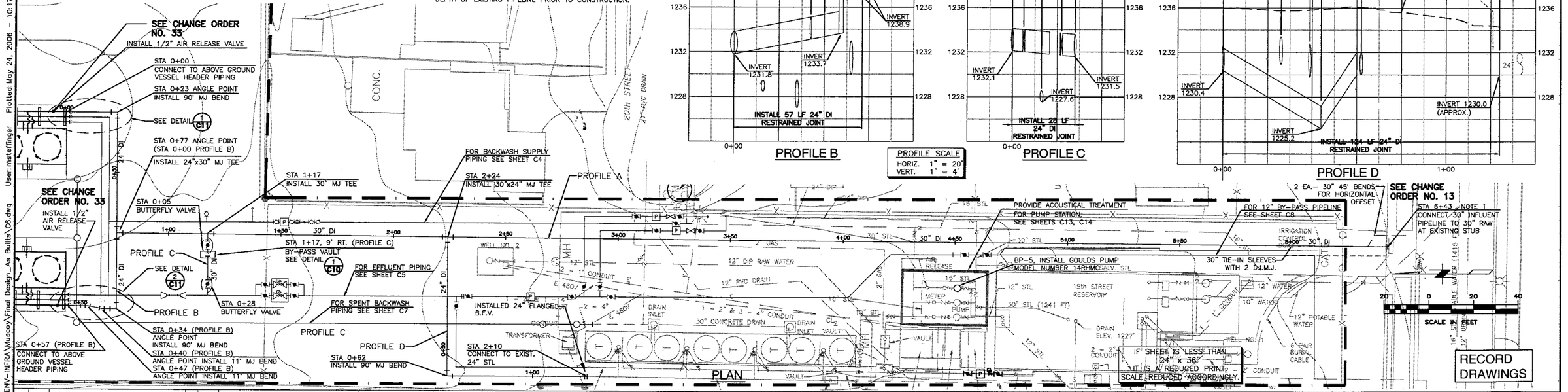


PROFILE C



PROFILE D

PROFILE SCALE
HORIZ. 1" = 20'
VERT. 1" = 4'



RECORD DRAWINGS

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	11/05	RECORD REVISION			

REVISIONS

DESIGNED BY: PAS
DRAWN BY: CAS
CHECKED BY: DHD

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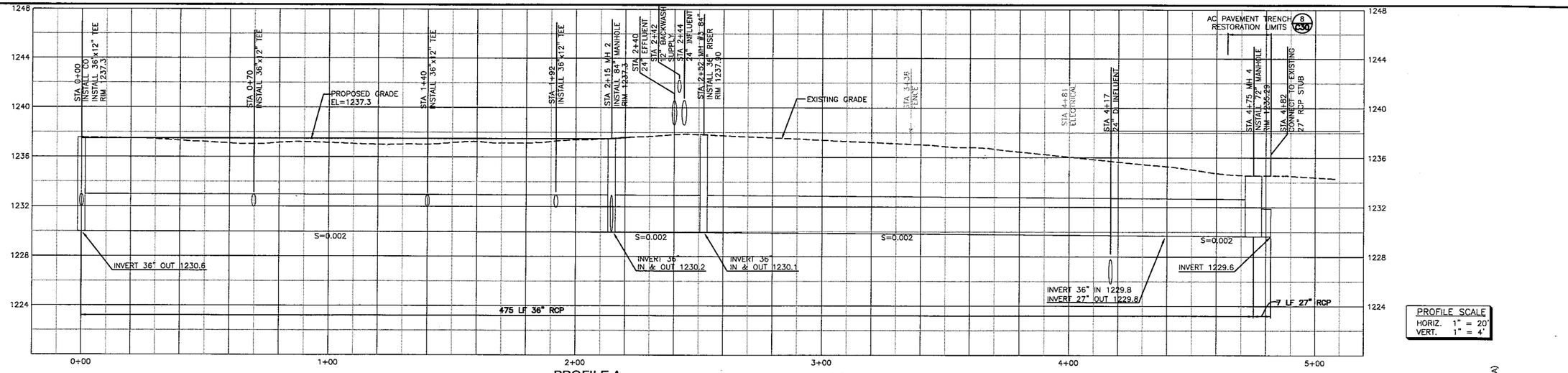
REGISTERED PROFESSIONAL ENGINEER
PAUL A. SCHULTZ
No. 042917
Exp. 03-31-04
CIVIL
STATE OF CALIFORNIA

MUSCOY OU REMEDIAL DESIGN
19th STREET PLANT & ENCANTO PARK PUMPING PLANT
NEWMARK GROUNDWATER CONTAMINATION SUPERFUND SITE

19TH STREET PLANT
INFLUENT PIPELINE PLAN & PROFILE

SCALE:	DATE:	DWG. FILE:	SHEET NO.
AS NOTED	8/14/03	C6.DWG	C6



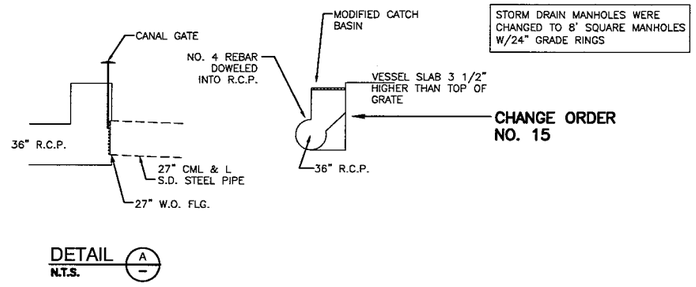
PROFILE A

NOTES:

1. CONTRACTOR TO FIELD VERIFY MATERIAL, DIAMETER AND DEPTH OF EXISTING PIPING PRIOR TO BEGINNING CONSTRUCTION.

SPENT BACKWASH COORDINATE TABLE

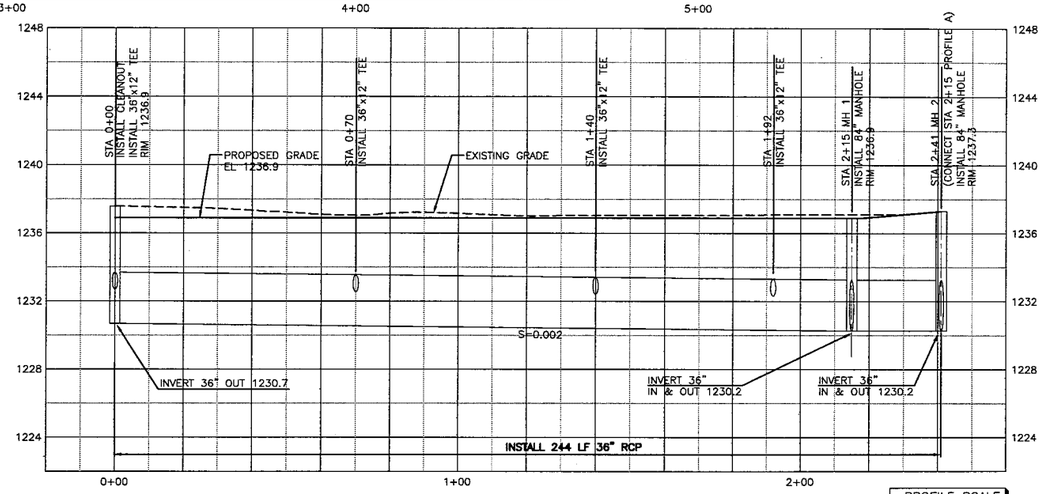
STATION	NORTHING	EASTING
STA 0+00 (PROFILE A)	2358179.15	6235469.39
STA 2+15 (PROFILE A)	2357964.61	6235469.39
STA 2+52 (PROFILE A)	2357964.61	6235431.89
STA 4+40 (PROFILE A)	2357776.65	6235431.89
STA 4+82 (PROFILE A)	2357734.65	6235431.89
STA 0+00 (PROFILE B)	2358179.11	6235495.62
STA 2+15 (PROFILE B)	2357964.61	6235495.46
STA 2+41 (PROFILE B)	2357964.61	6235469.39



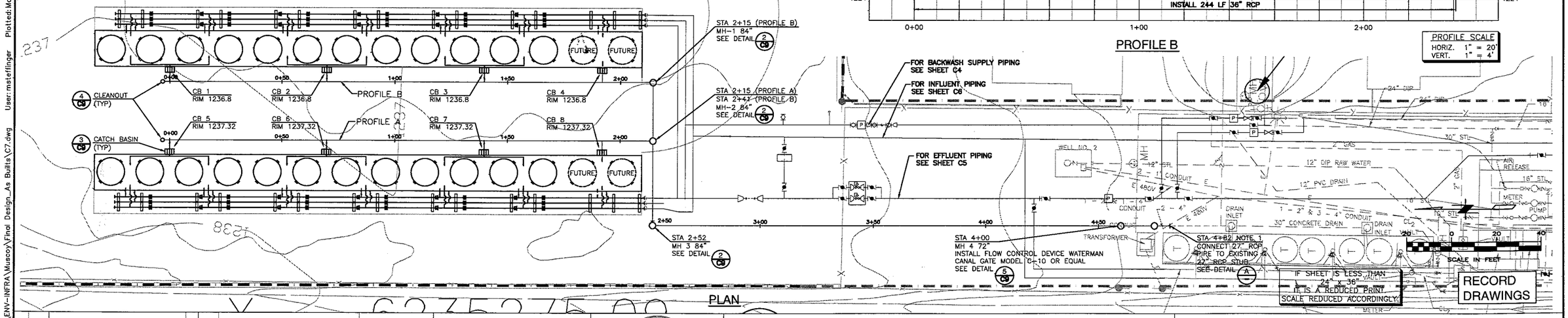
STORM DRAIN MANHOLES WERE CHANGED TO 8' SQUARE MANHOLES W/24" GRADE RINGS

CHANGE ORDER NO. 15

DETAIL (A) N.T.S.



PROFILE B



PLAN

RECORD DRAWINGS

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	11/05	RECORD REVISION			

REVISIONS

DESIGNED BY: ____
DRAWN BY: CAS
CHECKED BY: ____

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MUSCOY OU REMEDIAL DESIGN
19th STREET PLANT & ENCANTO PARK PUMPING PLANT
NEWMARK GROUNDWATER CONTAMINATION SUPERFUND SITE

19TH STREET PLANT
SPENT BACKWASH SYSTEM

SCALE	DATE	DWG. FILE	SHEET NO.
AS NOTED	8/14/03	C7.DWG	C7

H:\CADD\Current\ENV-INFRA\Muscoy\Final Design_As Builts\C7.dwg User: mstelfinger Plotted: May 24, 2006 - 10:17am Last Save: May 24, 2006 - 9:23am