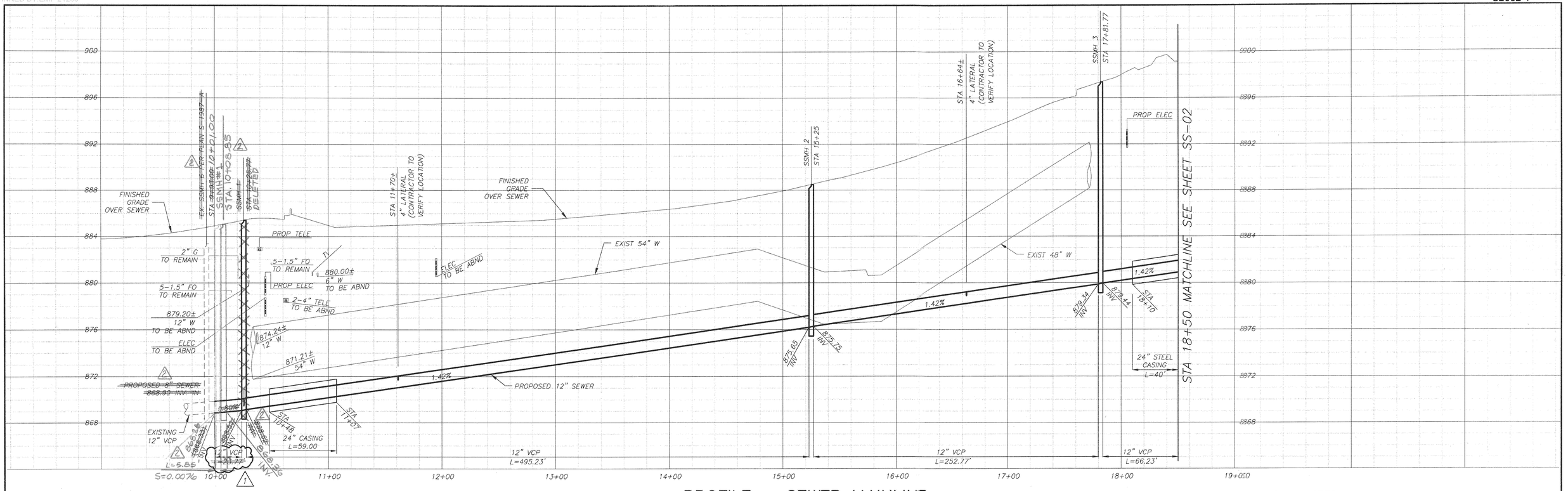
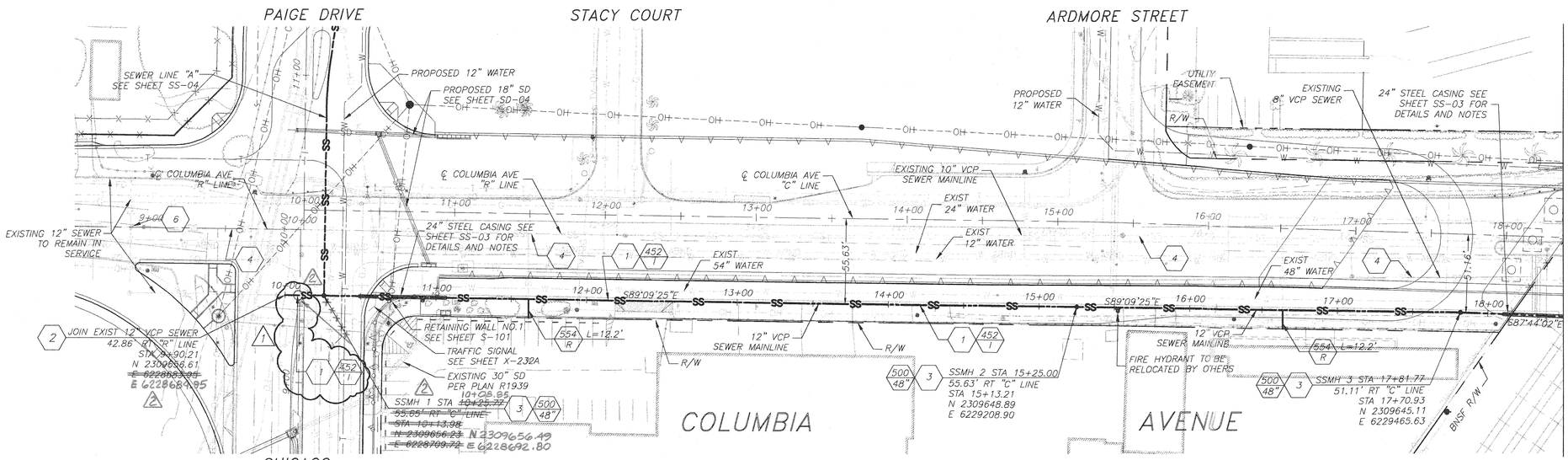
SCANNED BY:EMP 21289



PROFILE – SEWER MAINLINE

HORIZ. SCALE: 1"=40'
VERT SCALE: 1"=4'



PLAN – SEWER MAINLINE

SCALE: 1"=40'

CONSTRUCTION NOTES

1. CONSTRUCT 12" EXTRA STRENGTH VITRIFIED CLAY PIPE (VCP) SEWER, TYPE "G" JOINTS
2. CONTRACTOR TO VERIFY EXISTING SEWER ELEVATION PRIOR TO CONSTRUCTION
3. CONTRACTOR TO ADJUST SEWER MANHOLES TO FINAL GRADE AFTER PAVING IS COMPLETED
4. ABANDON SANITARY SEWER FACILITIES & SLURRY FILL PER SPECIFICATIONS
6. PLUG 10" INLET FROM EAST IN EXISTING MH

GENERAL NOTES

1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE PUBLIC WORKS STANDARD DRAWINGS AND STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC) 2006 EDITION.
2. CONTRACTOR TO CALL UNDERGROUND SERVICE ALERT (USA) (800) 422-4133, TWO WORKING DAYS PRIOR TO DIGGING.
3. PRIOR TO ISSUANCE OF GRADE SHEETS FOR ANY PROPOSED SEWER AND STORM DRAIN FACILITIES CONTRACTOR SHALL EXPOSE ALL UTILITIES WHICH CROSS OR MAY BE IN CONFLICT WITH THE PROPOSED SEWER AND STORM DRAIN FACILITIES AND COORDINATE WITH THE INSPECTOR TO HAVE THE LOCATION AND ELEVATION VERIFIED BY CONTRACTOR'S SURVEYORS.
4. FOR SEWER PIPE WITHIN ZONE "B" PER CITY OF RIVERSIDE PUBLIC UTILITIES STANDARD DRAWING No. CWD-015-2, JOINT TYPE "G" PER THE SSPWC SHALL BE USED.

48 HOURS BEFORE YOU DIG
CALL
UNDERGROUND SERVICE ALERT
1-800-227-2600

N

GRAPHIC SCALE: 40' 20' 0 40' 80' — 1" = 40' HORIZ

GRAPHIC SCALE: 4' 2' 0 4' 8' — 1" = 4' VERT

DMJM HARRIS | AECOM
800 NORTH HAVEN, SUITE 410
ONTARIO, CA 91764
T (909)291-8150 F (909)291-8166

REGISTERED PROFESSIONAL ENGINEER CHRIS H. BREITE No. C41824 Exp. 3-31-10 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
2	REALIGN SEWER LINE 'A' M.H. 1 TO M.H. 12		
1	ADDED CONSTRUCTION NOTE	C.B.	8-18-08

DESIGNED BY A.T DRAWN BY A.T CHECKED BY C.B.

COLUMBIA AVENUE OVERPASS AT BNSF RAILROAD

PLAN AND PROFILE
SANITARY SEWER RELOCATION SHT 1

SCALE: 1" = 40'

ACCT. NO. –

EMP 21289

S-2032
SS-01

SHEET 38 OF 103

FILE INFO: P:\60004223 Columbia Grade Sep\CADD\Grid\Sheet\SS-01.dwg PLOTTED: Aug 26, 2008 10:50am BY:ampraca PLOT SCALE: 1=1
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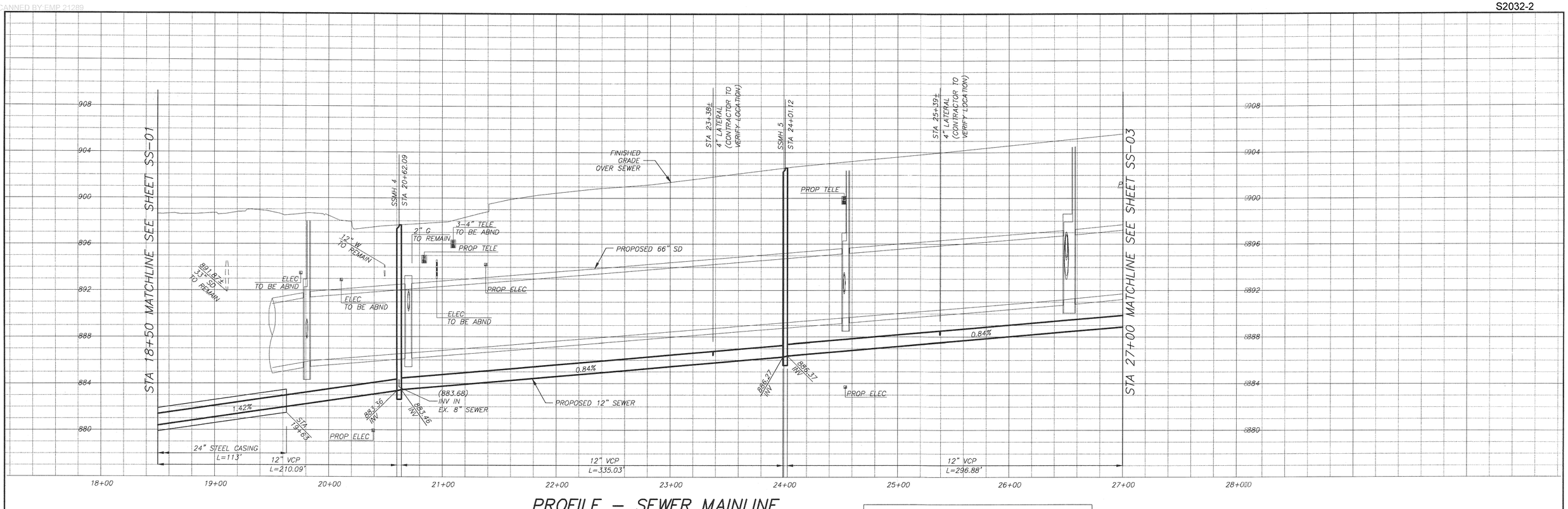
SCANNED BY-EMP 24289



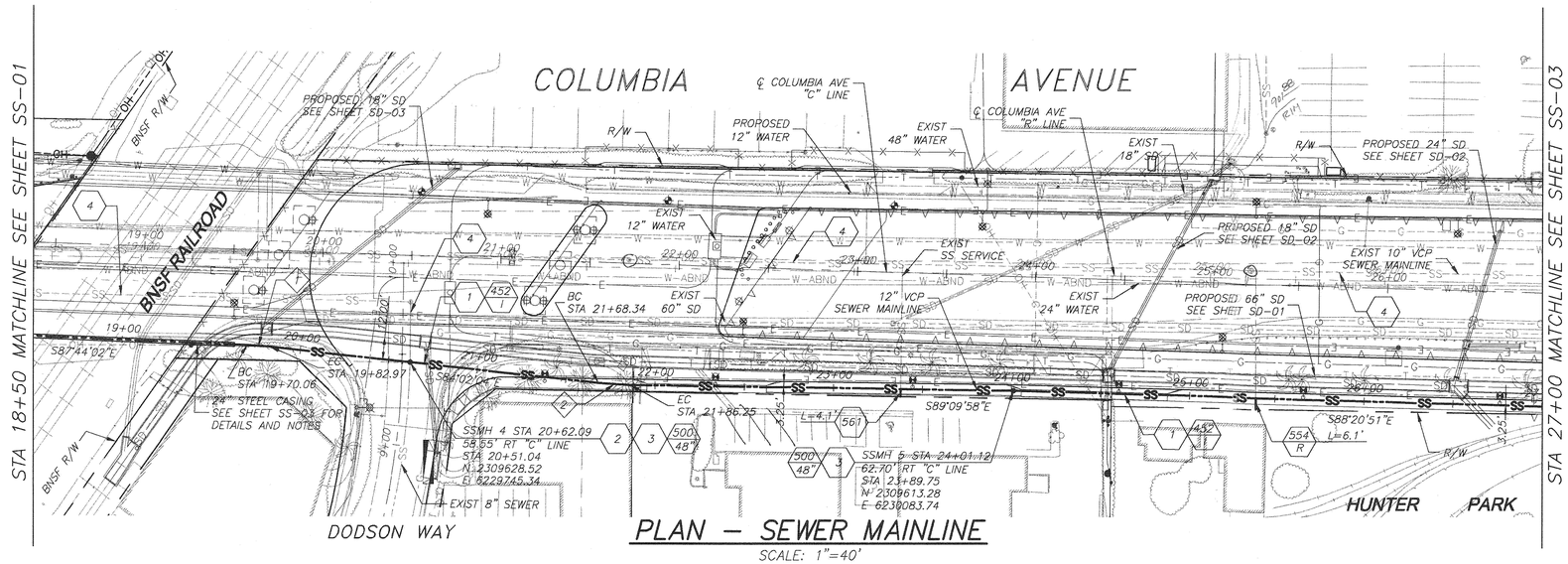
PROFILE – SEWER MAINLINE

HORIZ. SCALE: 1"=40'
VERT SCALE: 1"=4'

CURVE DATA				
CURVE	R	Δ	L	T
1	2000'	03°41'58"	12.91'	6.46'
2	2000'	05°07'53"	17.91'	8.96'

CONSTRUCTION NOTES

1. CONSTRUCT 12" EXTRA STRENGTH VITRIFIED CLAY PIPE (VCP) SEWER, TYPE "G" JOINTS
2. CONTRACTOR TO VERIFY EXISTING SEWER ELEVATION PRIOR TO CONSTRUCTION
3. CONTRACTOR TO ADJUST SEWER MANHOLES TO FINAL GRADE AFTER PAVING IS COMPLETED
4. ABANDON SANITARY SEWER FACILITIES & SLURRY FILL PER SPECIFICATIONS



PLAN – SEWER MAINLINE

SCALE: 1"=40'

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1-800-227-2600

N

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GRAPHIC SCALE: 4' 2' 0 4' 8' — 1" = 4' VERT

DMJM HARRIS | AECOM
800 NORTH HAVEN, SUITE 410
ONTARIO, CA 91764
T (909)291-8150 F (909)291-8166

REGISTERED PROFESSIONAL ENGINEER CHRIS H. BREWER No. C41824 Exp. 3-31-10 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY A.T DRAWN BY A.T CHECKED BY C.B.

COLUMBIA AVENUE OVERPASS AT BNSF RAILROAD

PLAN AND PROFILE
SANITARY SEWER RELOCATION SHT 2

SCALE: 1" = 40'

ACCT. NO. –

EMP 21157

S-2032
SS-02

SHEET 39 OF 103

FILE INFO:P:\60004223 Columbia Grade Sep\CADD\Civil\Sheet\SS-02.dwg PLOTTED: Jul 14, 2008 5:45pm BY:trinha PLOT SCALE: 1=1
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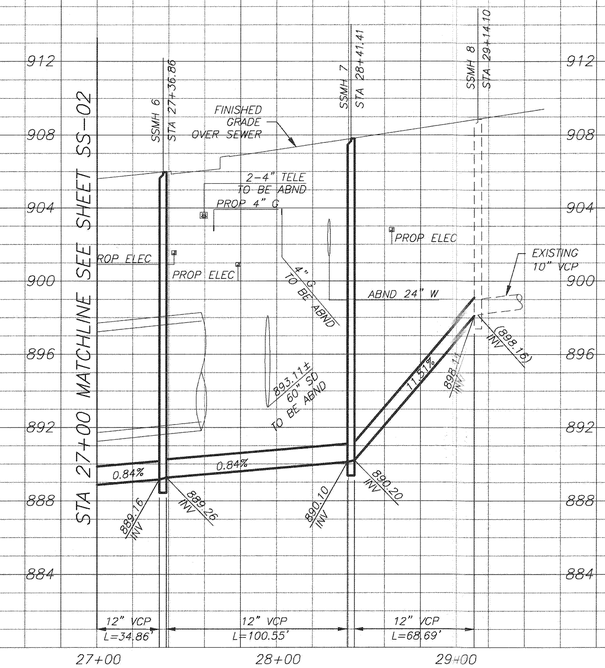
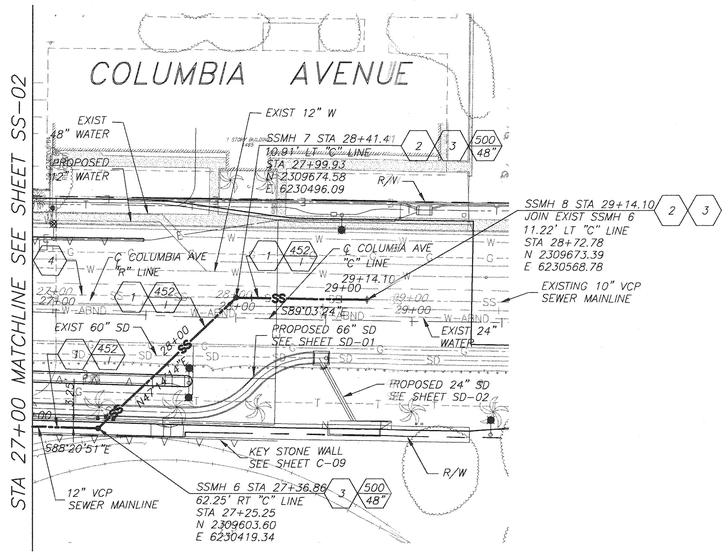
SCANNED BY EMP 21289



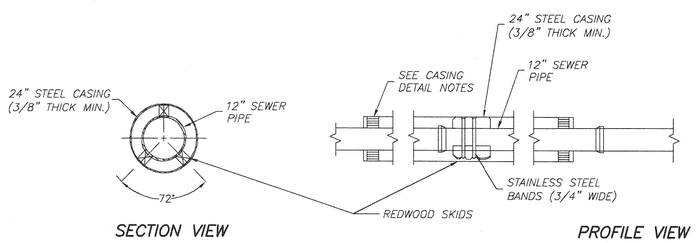
PROFILE – SEWER MAINLINE

HORIZ. SCALE: 1"=40'
VERT SCALE: 1"=4'



PLAN – SEWER MAINLINE

SCALE: 1"=40'



CASING DETAIL

NOT TO SCALE

CASING DETAIL NOTES

1. SKIDS SHALL BE REDWOOD, 30" LONG, 4" WIDE, AND OF SUFFICIENT HEIGHT TO PROVIDE A MINIMUM 2" CLEARANCE BETWEEN INVERT OF CASING AND BELL OF VCP. ALL SKIDS SHALL BE OF EQUAL DIMENSIONS AND POSITIONED UNIFORMLY.
2. ALL STEEL CASING PIPE FIELD JOINTS SHALL BE WELDED WITH A CONTINUOUS CIRCUMFERENTIAL WELDS.
3. CARRIER PIPE SHALL BE AIR TESTED PRIOR TO SLURRY BACKFILLING AND SEALING CASING.
4. VOID BETWEEN CASING AND CARRIER PIPE SHALL BE FILLED WITH A ONE SACK PCC SLURRY MIX.
5. UPSTREAM AND DOWNSTREAM ELEVATIONS TO BE VERIFIED PRIOR TO SEALING CASING.
6. ENDS OF CASING TO BE SEALED WITH BRICK AND MORTAR. PLACE 1" DIA MINIMUM PVC PIPE AT INVERT OF CASING (THROUGH BRICK) AND SURROUND WITH 2 CUBIC FEET OF CRUSHED ROCK.

CONSTRUCTION NOTES

1. CONSTRUCT 12" EXTRA STRENGTH VITRIFIED CLAY PIPE (VCP) SEWER, TYPE "G" JOINTS
2. CONTRACTOR TO VERIFY EXISTING SEWER ELEVATION PRIOR TO CONSTRUCTION
3. CONTRACTOR TO ADJUST SEWER MANHOLES TO FINAL GRADE AFTER PAVING IS COMPLETED
4. ABANDON SANITARY SEWER FACILITIES & SLURRY FILL PER SPECIFICATIONS

GENERAL NOTES

1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE PUBLIC WORKS STANDARD DRAWINGS AND STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC) 2006 EDITION.
2. CONTRACTOR TO CALL UNDERGROUND SERVICE ALERT (USA) (800) 422-4133, TWO WORKING DAYS PRIOR TO DIGGING.
3. PRIOR TO ISSUANCE OF GRADE SHEETS FOR ANY PROPOSED SEWER AND STORM DRAIN FACILITIES CONTRACTOR SHALL EXPOSE ALL UTILITIES WHICH CROSS OR MAY BE IN CONFLICT WITH THE PROPOSED SEWER AND STORM DRAIN FACILITIES AND COORDINATE WITH THE INSPECTOR TO HAVE THE LOCATION AND ELEVATION VERIFIED BY CONTRACTOR'S SURVEYORS.
4. FOR SEWER PIPE WITHIN ZONE "B" PER CITY OF RIVERSIDE PUBLIC UTILITIES STANDARD DRAWING No. CWD-015-2, JOINT TYPE "G" PER THE SSPWC SHALL BE USED.

48 HOURS BEFORE YOU DIG
CALL
UNDERGROUND SERVICE ALERT
1-800-227-2600

N

40' 20' 0 40' 80'
GRAPHIC SCALE: 1" = 40' HORIZ

4' 2' 0 4' 8'
GRAPHIC SCALE: 1" = 4' VERT

DMJM HARRIS | AECOM
800 NORTH HAVEN, SUITE 410
ONTARIO, CA 91764
T (909)291-8150 F (909)291-8166

REGISTERED PROFESSIONAL ENGINEER CHRIS H. BRIDGE No. C41824 Exp. 3-31-10 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY A.T DRAWN BY A.T CHECKED BY C.B.

COLUMBIA AVENUE OVERPASS AT BNSF RAILROAD

PLAN AND PROFILE
SANITARY SEWER RELOCATION SHT 3

SCALE: 1" = 40'

ACCT. NO. –

EMP 21289 S-2032
SS-03

SHEET 40 OF 103

FILE: INFO:P:\60004223 Columbia Grade Sep\CADD\Civil\Sheet\SS-03.dwg PLOTTED: Jul 14, 2008 5:46pm BY:trinho PLOT SCALE: 1=1
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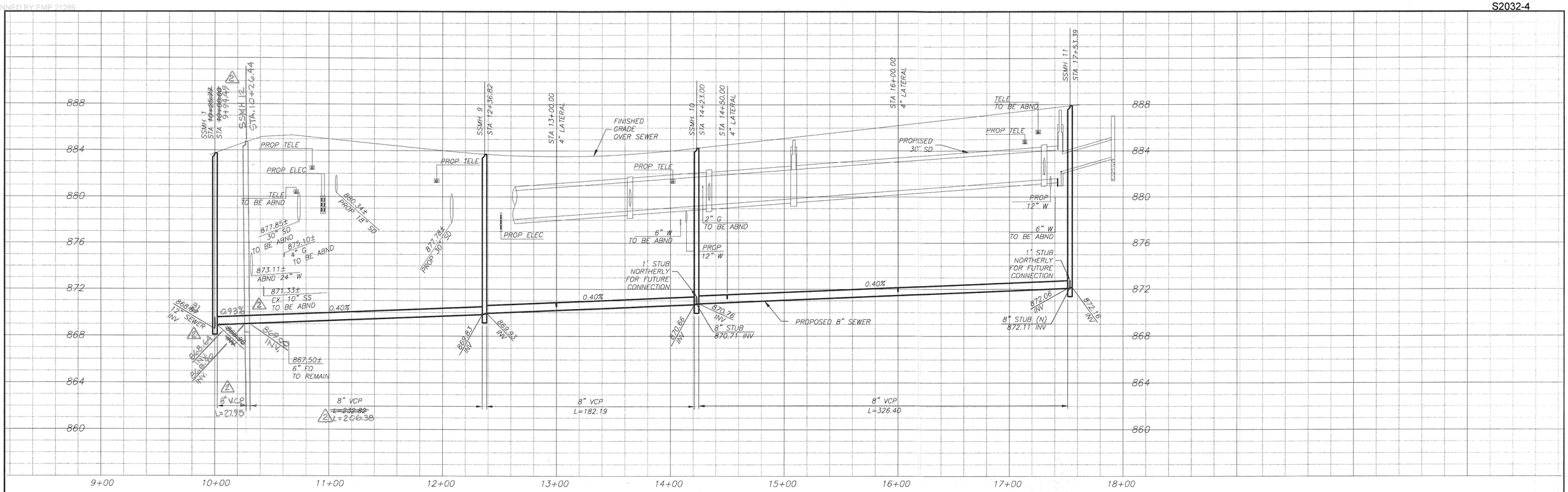

PROFILE – SEWER LINE "A"

HORIZ. SCALE: 1"=40'
VERT SCALE: 1"=4'

CURVE DATA				
CURVE	R	△	L	T
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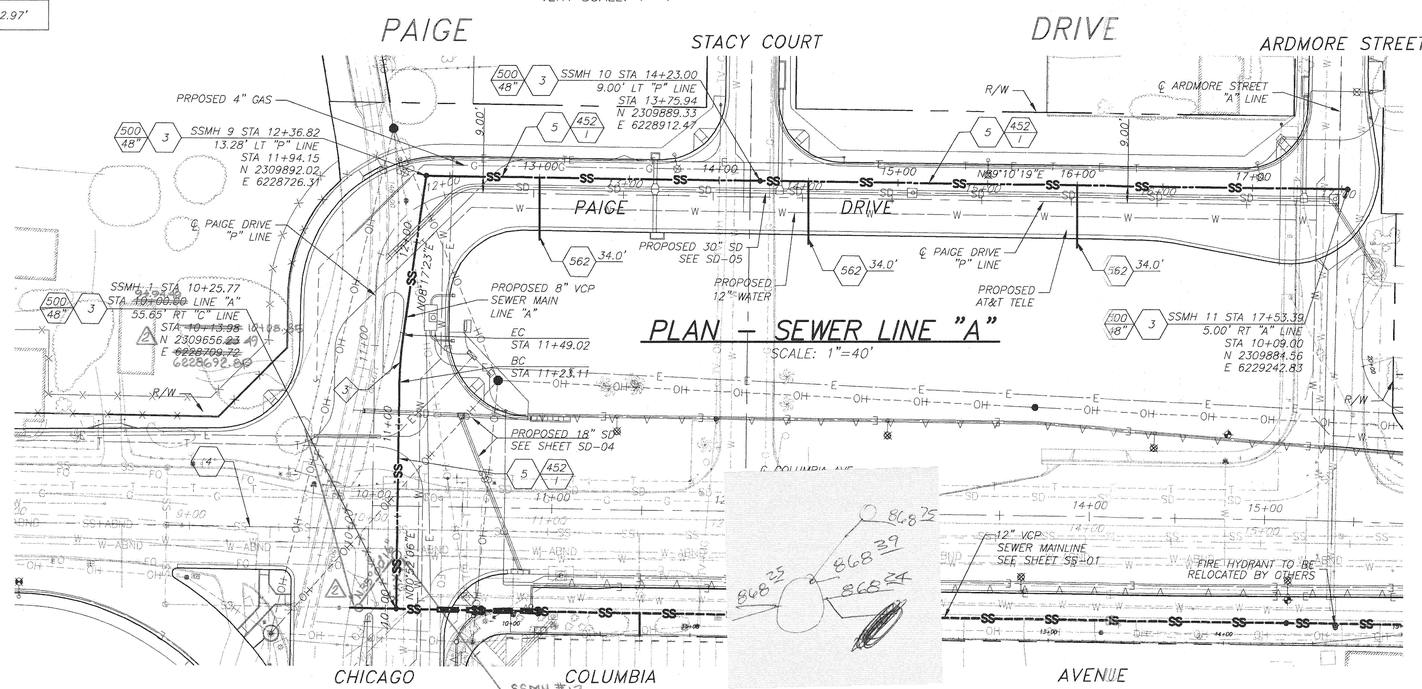

PLAN – SEWER LINE "A"

SCALE: 1"=40'

CONSTRUCTION NOTES

2. CONTRACTOR TO VERIFY EXISTING SEWER ELEVATION PRIOR TO CONSTRUCTION
3. CONTRACTOR TO ADJUST SEWER MANHOLES TO FINAL GRADE AFTER PAVING IS COMPLETED
4. ABANDON SANITARY SEWER FACILITIES & SLURRY FILL PER SPECIFICATIONS
5. CONSTRUCT 8" EXTRA STRENGTH VITRIFIED CLAY PIPE (VCP) SEWER, TYPE "G" JOINTS

GENERAL NOTES

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UNDERGROUND SERVICE ALERT
1-800-227-2600

N

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GRAPHIC SCALE: 4' 2' 0 4' 8' — 1" = 4' VERT

DMJM HARRIS | AECOM
800 NORTH HAVEN, SUITE 410
ONTARIO, CA 91764
T (909)291-8150 F (909)291-8166

REGISTERED PROFESSIONAL ENGINEER CHRIS H. BRETT No. C41824 Exp. 3-31-10 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
A	REALIGN SEWER LINE 'A' MH.1 TO MH 2		

DESIGNED BY A.T DRAWN BY A.T CHECKED BY C.B.

COLUMBIA AVENUE OVERPASS AT BNSF RAILROAD

PLAN AND PROFILE
SANITARY SEWER RELOCATION SHT 4

SCALE: 1" = 40'

ACCT. NO. –

EMP 21289

S-2032
SS-04

SHEET 41 OF 103

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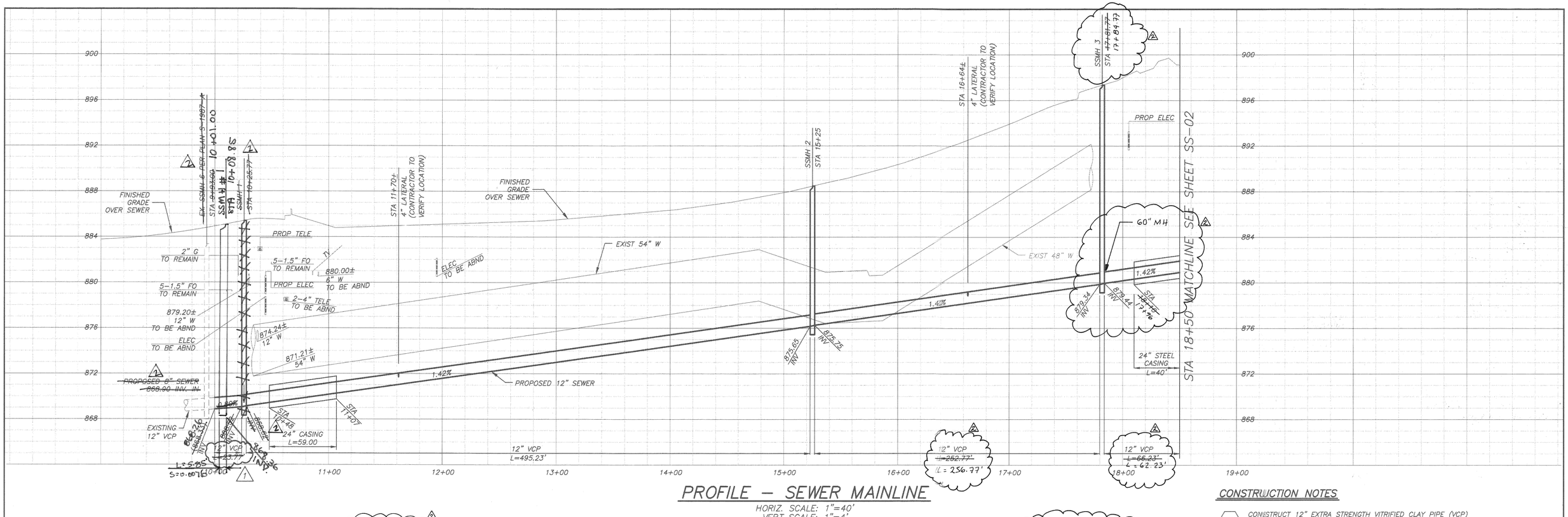
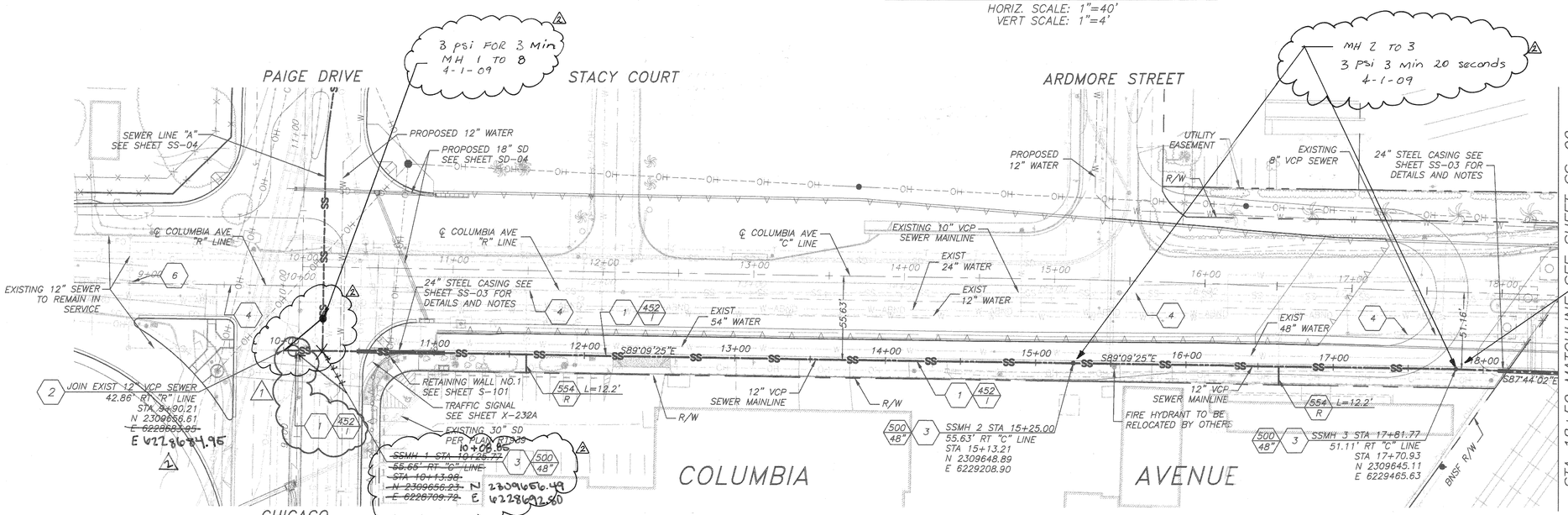


PROFILE – SEWER MAINLINE

HORIZ. SCALE: 1"=40'
VERT SCALE: 1"=4'



PLAN – SEWER MAINLINE

SCALE: 1"=40'

AS BUILT
DATE 9-14-10

CONSTRUCTION NOTES

1. CONSTRUCT 12" EXTRA STRENGTH VITRIFIED CLAY PIPE (VCP) SEWER, TYPE "G" JOINTS
2. CONTRACTOR TO VERIFY EXISTING SEWER ELEVATION PRIOR TO CONSTRUCTION
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6. PLUG 10" INLET FROM EAST IN EXISTING MH

GENERAL NOTES

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N

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DMJM HARRIS | AECOM
800 NORTH HAVEN, SUITE 410
ONTARIO, CA 91764
T (909)291-8150 F (909)291-8166

REGISTERED PROFESSIONAL ENGINEER CHRIS H. BREEZE No. C41824 Exp. 3-31-10 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
2	AS BUILT	F.R.	9/14/10
1	ADDED CONSTRUCTION NOTE	C.B.	8-18-09

DESIGNED BY AT DRAWN BY AT CHECKED BY C.B.

COLUMBIA AVENUE OVERPASS AT BNSF RAILROAD

PLAN AND PROFILE
SANITARY SEWER RELOCATION SHT 1

SCALE 1" = 40'

ACCT. NO. –

S-2032
SS-01

SHEET 38 OF 103

Indexed - 2/1/12 JE

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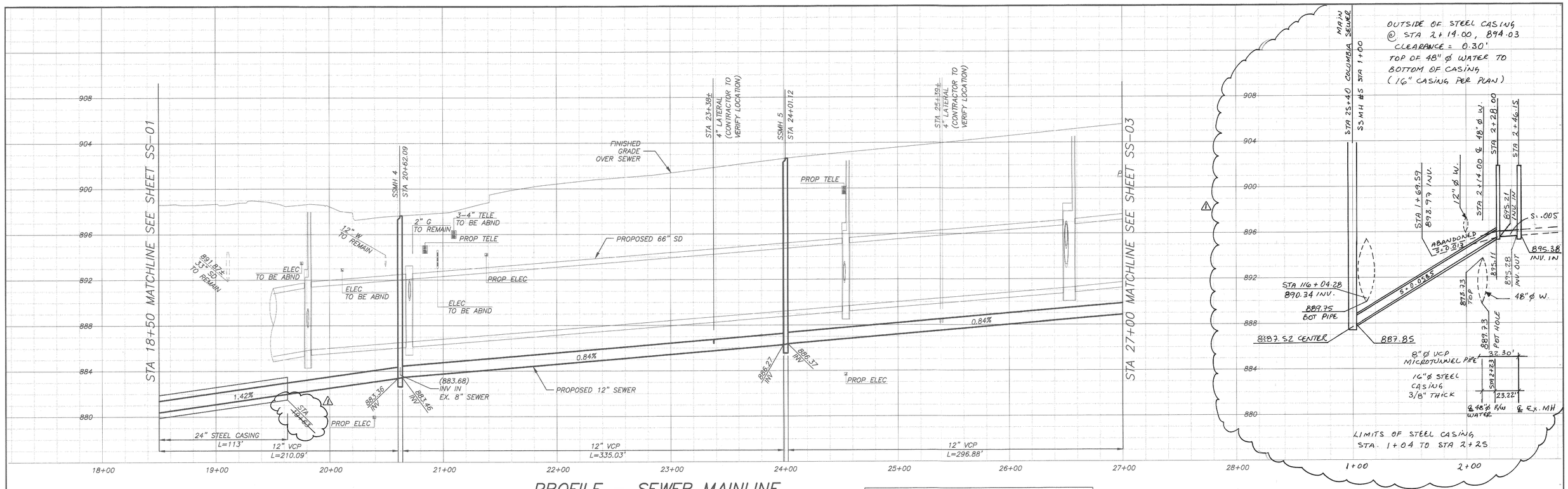

PROFILE – SEWER MAINLINE

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VERT SCALE: 1"=4'

CURVE DATA				
CURVE	R	Δ	L	T
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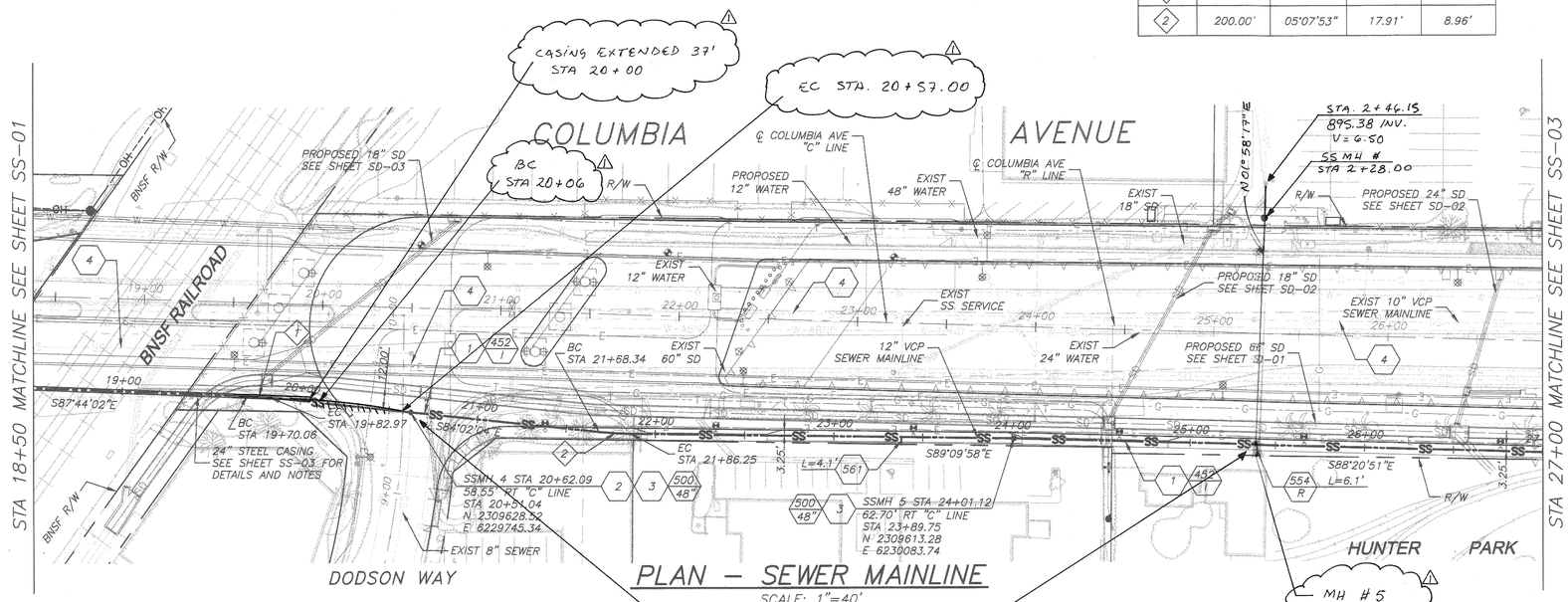

PLAN – SEWER MAINLINE

SCALE: 1"=40'

AS BUILT
DATE 9-14-10

CONSTRUCTION NOTES

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48 HOURS BEFORE YOU DIG CALL UNDERGROUND SERVICE ALERT 1-800-227-2600

N

GRAPHIC SCALE: 40' 20' 0 40' 80' — 1" = 40' HORIZ

GRAPHIC SCALE: 4' 2' 0 4' 8' — 1" = 4' VERT

MH 4 TO MH 5 TEST 475' 5 min 3 psi NO DROP 4-9-09

DMJM HARRIS | AECOM
800 NORTH HAVEN, SUITE 410
ONTARIO, CA 91764
T (909)291-8150 F (909)291-8166

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER H. BRESLIN No. C41824 Exp. 3-31-10 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
1	AS BUILT	F.R.	9/14/10

DESIGNED BY AT DRAWN BY AT CHECKED BY C.B.

COLUMBIA AVENUE OVERPASS AT BNSF RAILROAD

PLAN AND PROFILE
SANITARY SEWER RELOCATION SHT 2

SCALE: 1" = 40'

ACCT. NO. –

S-2032
SS-02

SHEET 39 OF 103

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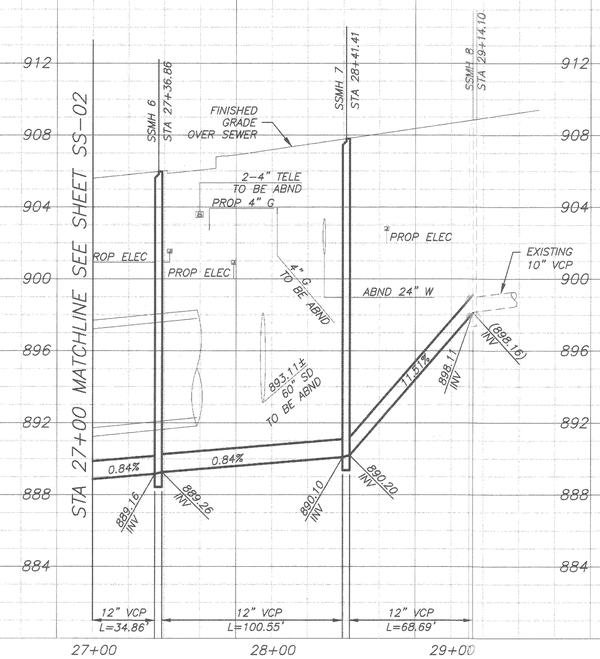
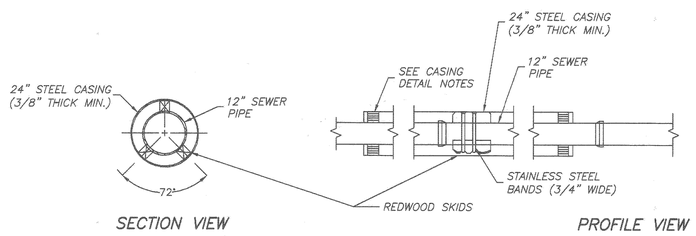


PROFILE – SEWER MAINLINE

HORIZ. SCALE: 1"=40'
VERT SCALE: 1"=4'

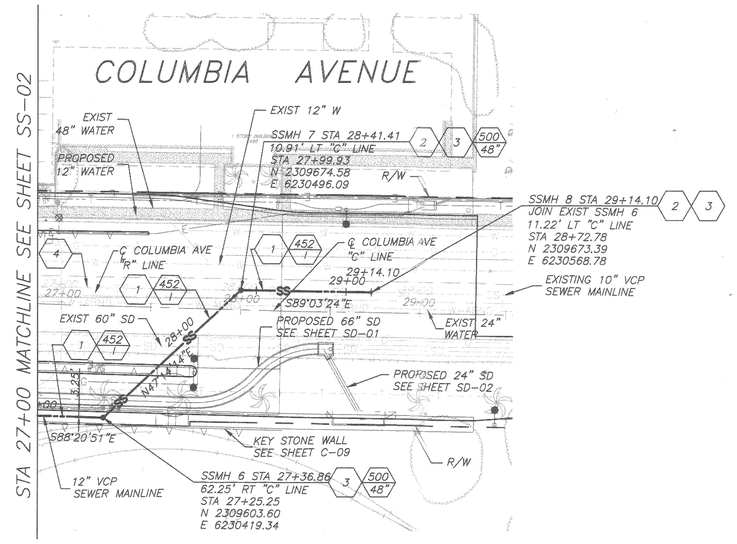


CASING DETAIL

NOT TO SCALE

CASING DETAIL NOTES

1. SKIDS SHALL BE REDWOOD, 30" LONG, 4" WIDE, AND OF SUFFICIENT HEIGHT TO PROVIDE A MINIMUM 2" CLEARANCE BETWEEN INVERT OF CASING AND BELL OF VCP. ALL SKIDS SHALL BE OF EQUAL DIMENSIONS AND POSITIONED UNIFORMLY.
2. ALL STEEL CASING PIPE FIELD JOINTS SHALL BE WELDED WITH A CONTINUOUS CIRCUMFERENTIAL WELDS.
3. CARRIER PIPE SHALL BE AIR TESTED PRIOR TO SLURRY BACKFILLING AND SEALING CASING.
4. VOID BETWEEN CASING AND CARRIER PIPE SHALL BE FILLED WITH A ONE SACK PCC SLURRY MIX.
5. UPSTREAM AND DOWNSTREAM ELEVATIONS TO BE VERIFIED PRIOR TO SEALING CASING.
6. ENDS OF CASING TO BE SEALED WITH BRICK AND MORTAR. PLACE 1" DIA MINIMUM PVC PIPE AT INVERT OF CASING (THROUGH BRICK) AND SURROUND WITH 2 CUBIC FEET OF CRUSHED ROCK.



PLAN – SEWER MAINLINE

SCALE: 1"=40'

CONSTRUCTION NOTES

1. CONSTRUCT 12" EXTRA STRENGTH VITRIFIED CLAY PIPE (VCP) SEWER, TYPE "G" JOINTS
2. CONTRACTOR TO VERIFY EXISTING SEWER ELEVATION PRIOR TO CONSTRUCTION
3. CONTRACTOR TO ADJUST SEWER MANHOLES TO FINAL GRADE AFTER PAVING IS COMPLETED
4. ABANDON SANITARY SEWER FACILITIES & SLURRY FILL PER SPECIFICATIONS

GENERAL NOTES

1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE PUBLIC WORKS STANDARD DRAWINGS AND STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC) 2006 EDITION.
2. CONTRACTOR TO CALL UNDERGROUND SERVICE ALERT (USA) (800) 422-4133, TWO WORKING DAYS PRIOR TO DIGGING.
3. PRIOR TO ISSUANCE OF GRADE SHEETS FOR ANY PROPOSED SEWER AND STORM DRAIN FACILITIES CONTRACTOR SHALL EXPOSE ALL UTILITIES WHICH CROSS OR MAY BE IN CONFLICT WITH THE PROPOSED SEWER AND STORM DRAIN FACILITIES AND COORDINATE WITH THE INSPECTOR TO HAVE THE LOCATION AND ELEVATION VERIFIED BY CONTRACTOR'S SURVEYORS.
4. FOR SEWER PIPE WITHIN ZONE "B" PER CITY OF RIVERSIDE PUBLIC UTILITIES STANDARD DRAWING No. CWD-015-2, JOINT TYPE "G" PER THE SSPWC SHALL BE USED.

48 HOURS BEFORE YOU DIG CALL
UNDERGROUND SERVICE ALERT
1-800-227-2600

N

GRAPHIC SCALE: 40' 20' 0 40' 80' — 1" = 40' — HORIZ

GRAPHIC SCALE: 4' 2' 0 4' 8' — 1" = 4' — VERT

AS BUILT
DATE 9-14-10

DMJM HARRIS | AECOM
800 NORTH HAVEN, SUITE 410
ONTARIO, CA 91764
T (909)291-8150 F (909)291-8166

REGISTERED PROFESSIONAL ENGINEER CHRIS H. BREWER No. C 041824 Exp. 3-31-10 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY A.T DRAWN BY A.T CHECKED BY C.B.

COLUMBIA AVENUE OVERPASS AT BNSF RAILROAD

PLAN AND PROFILE
SANITARY SEWER RELOCATION SHT 3

SCALE: 1" = 40'

ACCT. NO. –

S-2032
SS-03

SHEET 40 OF 103

FILE INFO:P:\60004223 Columbia Grade Sep\CADD\Civil\Sheet\SS-03.dwg PLOTTED: Sep 29, 2008 1:09pm BY:ampacna PLOT SCALE: 1=1
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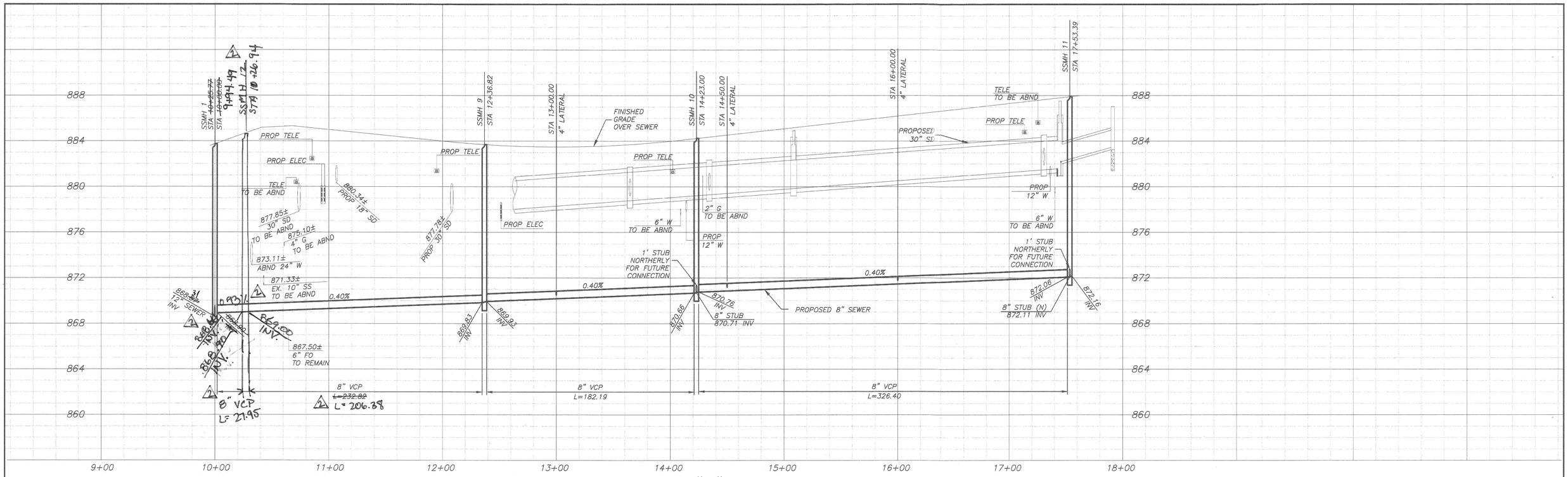
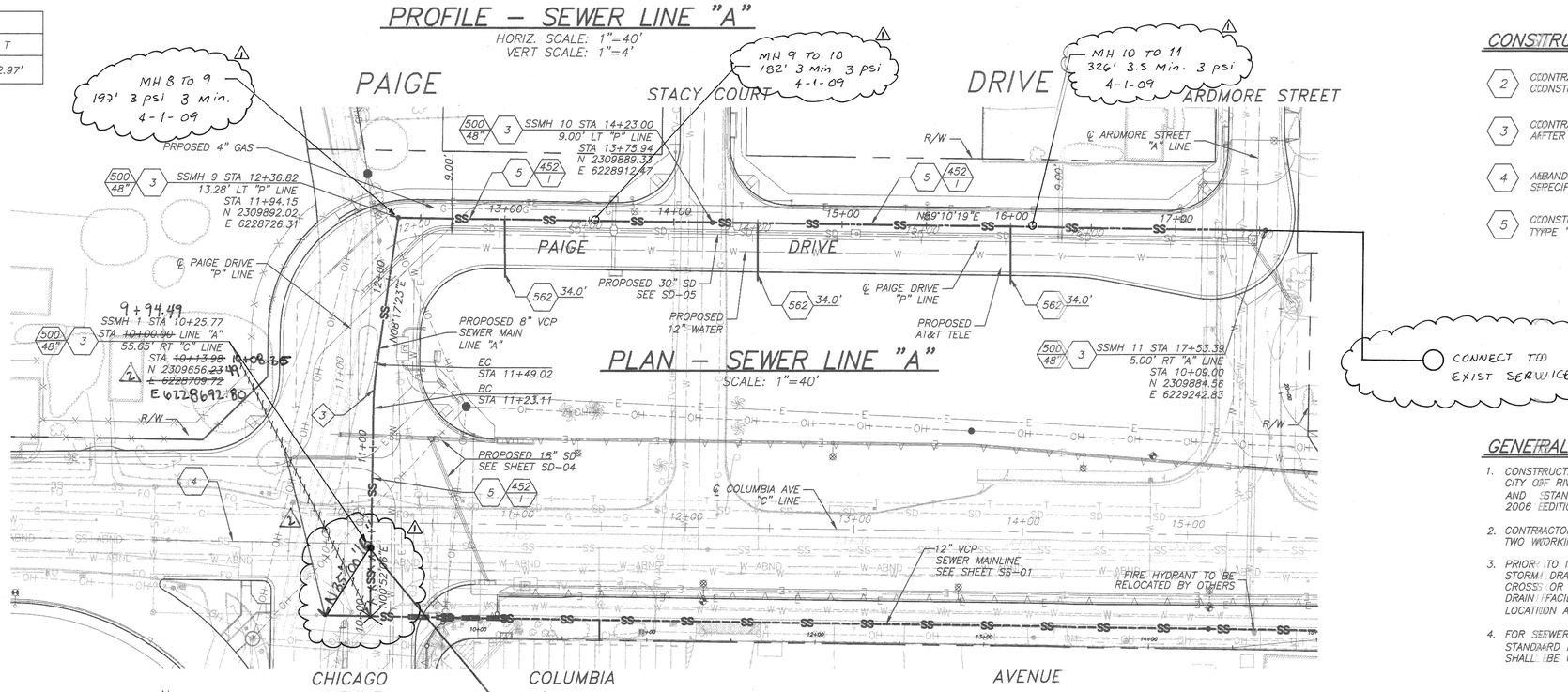


PROFILE – SEWER LINE "A"

HORIZ. SCALE: 1"=40'
VERT SCALE: 1"=4'

CURVE DATA				
CURVE	R	△	L	T
3	200.00'	07°25'17"	25.91'	12.97'



CONSTRUCTION NOTES

(2) CONTRACTOR TO VERIFY EXISTING SEWER ELEVATION PRIOR TO CONSTRUCTION

(3) CONTRACTOR TO ADJUST SEWER MANHOLES TO FINAL GRADE AFTER PAVING IS COMPLETED

(4) ABANDON SANITARY SEWER FACILITIES & SLURRY FILL PER SPECIFICATIONS

(5) CONSTRUCT 8" EXTRA STRENGTH VITRIFIED CLAY PIPE (VCP) SEWER, TYPE "G" JOINTS

GENERAL NOTES

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N

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REGISTERED PROFESSIONAL ENGINEER CHRIS H. BREEZE No. C41824 Exp. 3-31-10 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
2	REALIGN SEWER LINE 'A'	F.R.	9/14/10
1	AS BUILT		

DESIGNED BY AT DRAWN BY AT CHECKED BY C.B.

COLUMBIA AVENUE OVERPASS AT BNSF RAILROAD

PLAN AND PROFILE
SANITARY SEWER RELOCATION SHT 4

SCALE: 1" = 40'

ACCT. NO. –

S-2032
SS-04

SHEET 41 OF 103

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