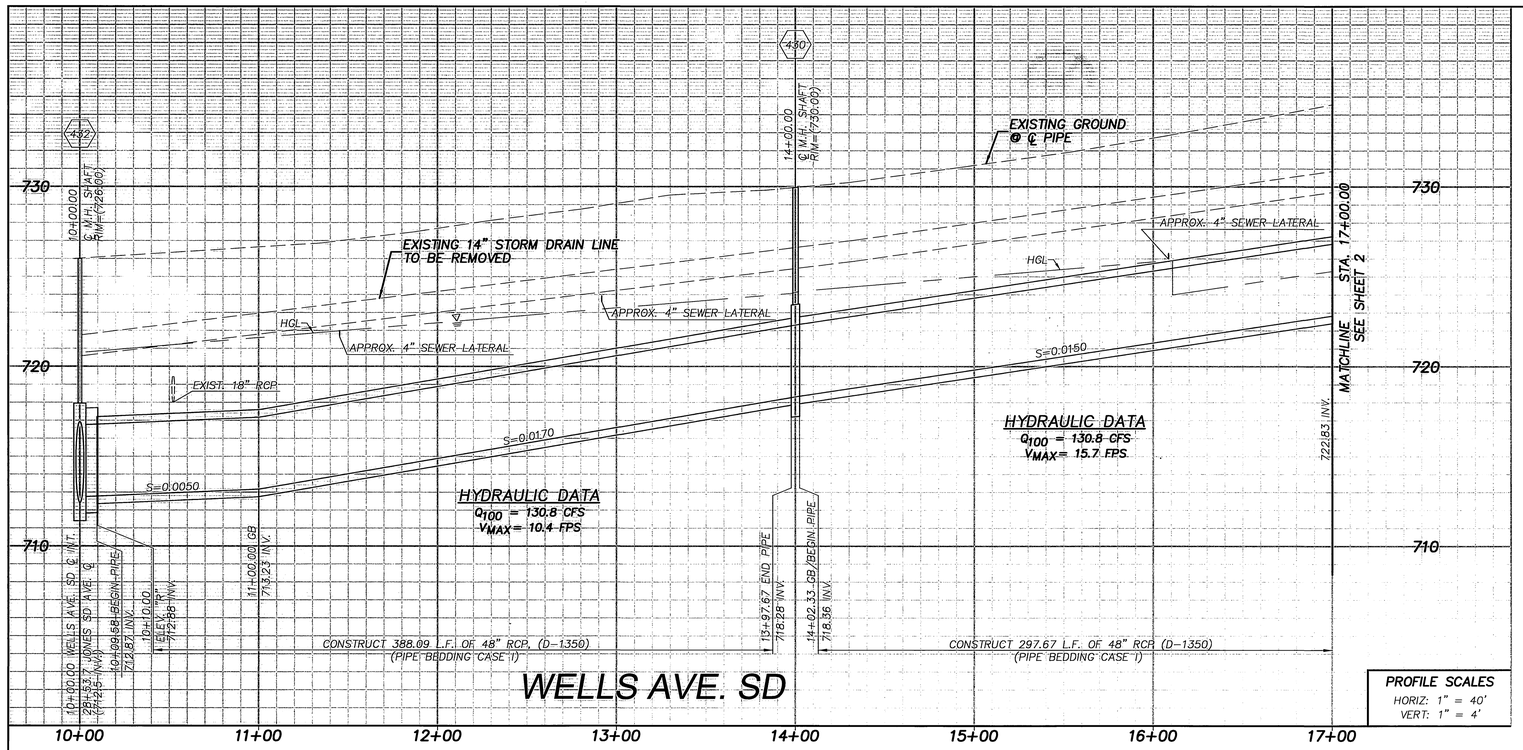
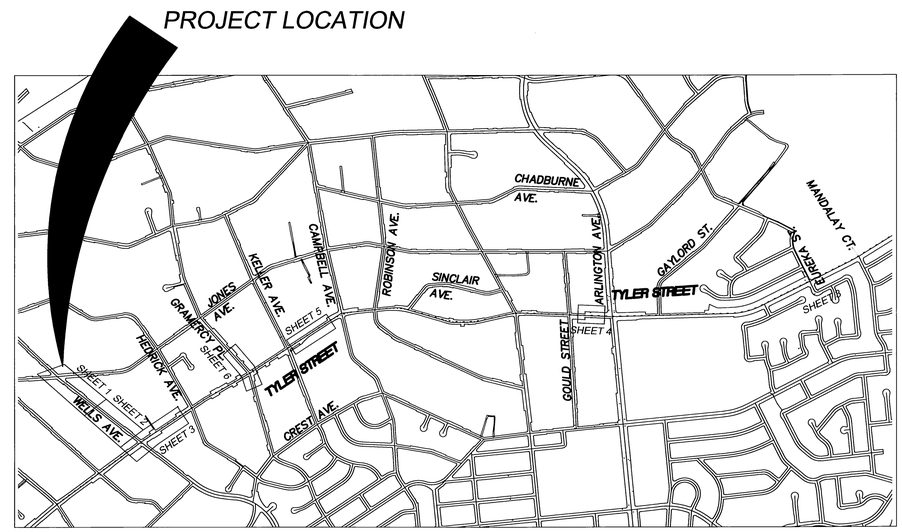




PROJECT LOCATION MAP

SCALE: 1"=1000'

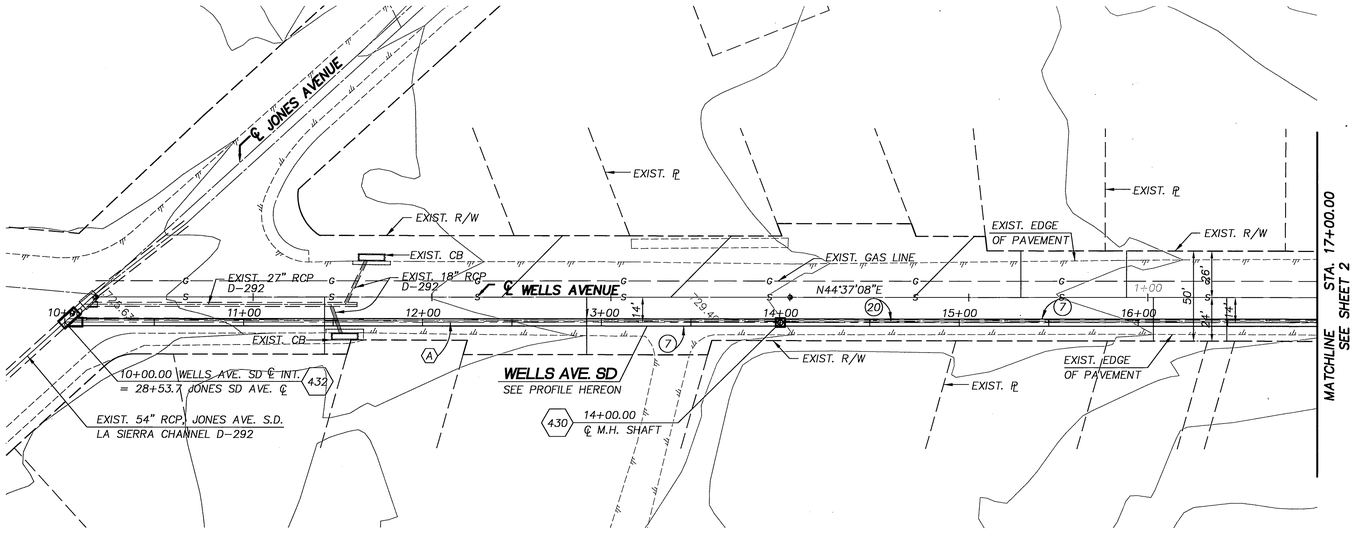
GENERAL CONSTRUCTION NOTES

1. EXISTING UTILITIES SHOWN ON THIS PLAN ARE PLOTTED FROM UTILITY RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO LOCATE AND PROTECT ALL UTILITIES WHETHER OR NOT SHOWN ON THIS PLAN. IF THE COVER OF A UTILITY IS KNOWN, IT IS SHOWN IN THE PROFILE. UTILITIES SHOWN IN THE PROFILE AS —— INDICATES THAT THE COVER IS UNKNOWN, BUT THE UTILITY IS NOT EXPECTED TO CONFLICT WITH THE PROPOSED IMPROVEMENTS.
2. ALL ELEVATIONS SHOWN ON THE PLANS SHALL BE STAKED IN THE FIELD.
3. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE STANDARD DWGS AND STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION.

CONSTRUCTION NOTES

⬢ NUMBERS ABOVE 100 IN A HEXAGON ON THE PLAN REFER TO THE RESPECTIVE STANDARD DRAWING AND SHALL BE CONSTRUCTED ACCORDINGLY. UNLESS MODIFICATIONS ARE NOTED ON THE PLAN OR COVER SHEET. ANY NUMBER SHOWN BELOW THE STANDARD DRAWING NUMBER INDICATES THE SPECIFIC ALTERNATE TO BE CONSTRUCTED.

1. CONSTRUCT 12" HDPE.
2. CONSTRUCT 18" RCP (PIPE BEDDING CASE 1).
4. CONSTRUCT 30" RCP (PIPE BEDDING CASE 1).
5. CONSTRUCT 36" RCP (PIPE BEDDING CASE 1).
6. CONSTRUCT 42" RCP (PIPE BEDDING CASE 1).
7. CONSTRUCT 48" RCP (PIPE BEDDING CASE 1).
20. REMOVE INTERFERING PORTION OF 14" STORM DRAIN LINE.
21. REMOVE EXISTING CATCH BASIN.
22. REMOVE EXISTING CONCRETE DROP INLET.
23. SEAL 18" RCP WITH BRICK AND MORTAR.
24. REMOVE EXISTING BULKHEAD.
25. REMOVE EXISTING BRICK AND MORTAR.
26. CONSTRUCT CONCRETE PIPE ENCASEMENT PER DETAIL ON SHEET 6.



WELLS AVE. SD

JUNCTION STRUCTURE DATA

LATERAL	A	B	C'	D_1	D_2	E	L	ELEV. "S"	ELEV. "R"
WELLS AVE SD	42°12'11"	48"	10.0'	54"	54"	9.0'	12.0'	712.75	712.88

CURVE/LINE DATA

	DELTA/BEARING	RADIUS	LEN./DIST.	TANGENT
(A)	N44°37'08"E	----	700.00'	----

GRAPHIC SCALE 1" = 40'

REGISTERED PROFESSIONAL ENGINEER STEVE J. HOSFORD NO. 42280 EXP. 03/31/04 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	DRAWN BY:	CHECKED BY:
AE/OS	AE/OS	JLC

PLANS PREPARED UNDER THE SUPERVISION OF:

STEVE J. HOSFORD RCE 42280 — DATE 11-26-03

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CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		12/8/03
STREET SERVICES		
CHIEF INSPECTOR		12/8/03
SURVEYOR		12/8/03

APPROVED BY: CITY ENGINEER
DATE: 12/8/03

WELLS AVENUE STORM DRAIN

JONES AVE. TO TYLER ST.

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

ACCT. NO. 9534630214-440302XX

D-734

SHEET 1 OF 8

FILE NO.

INDEXED 5-24-04

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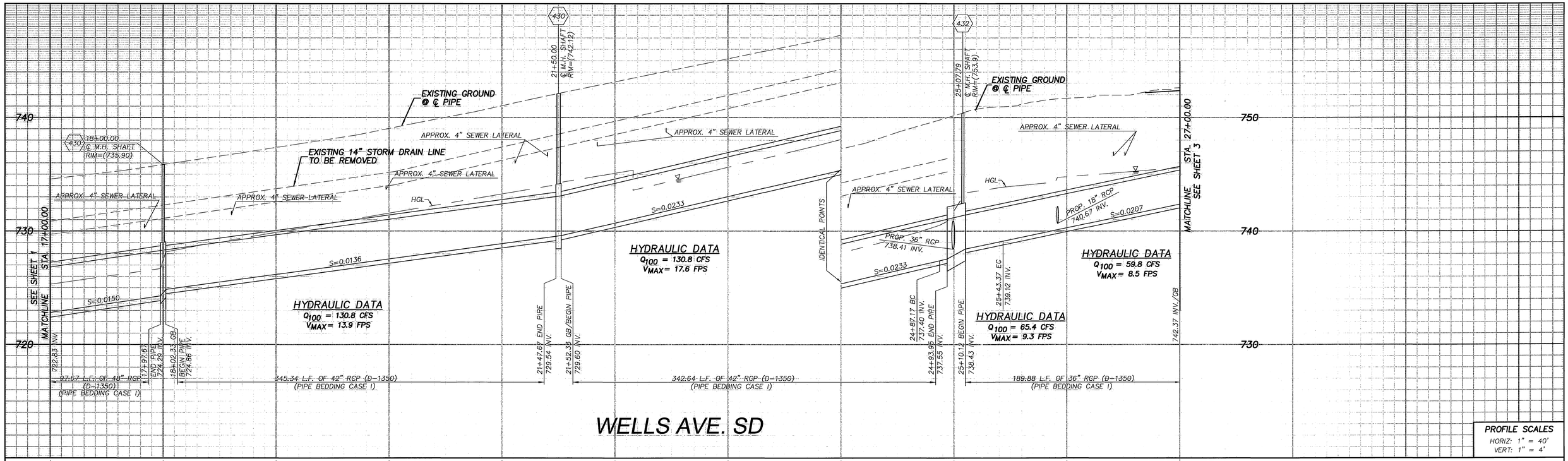

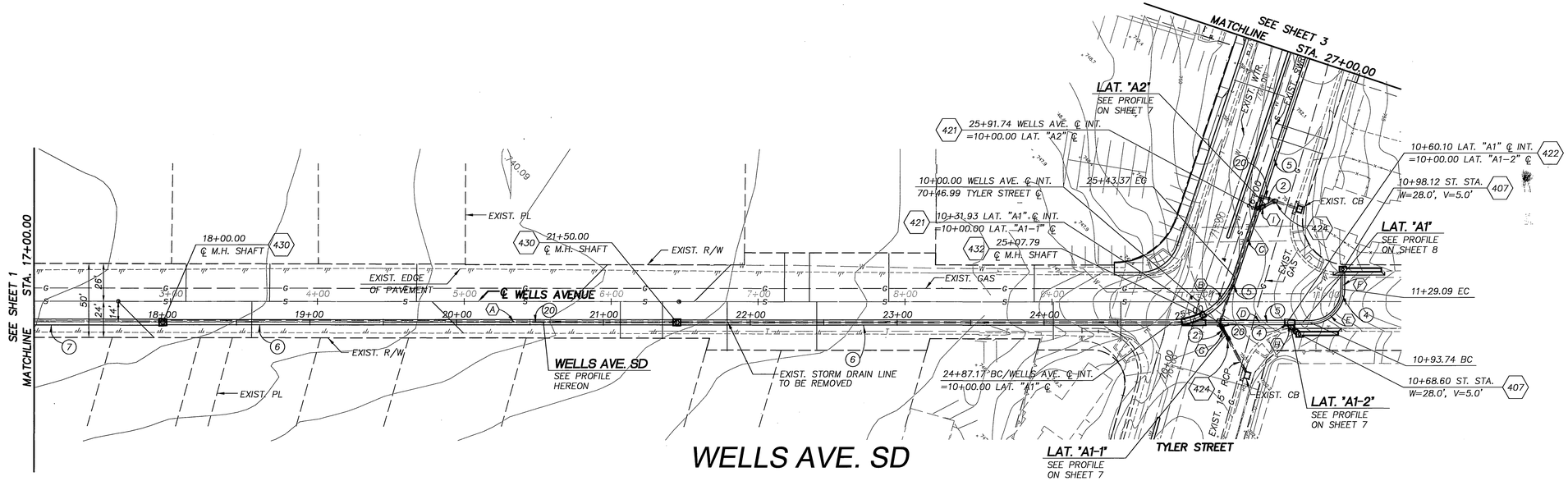

CONSTRUCTION NOTES

⬢ NUMBERS ABOVE 100 IN A HEXAGON ON THE PLAN REFER TO THE RESPECTIVE STANDARD DRAWING AND SHALL BE CONSTRUCTED ACCORDINGLY. UNLESS MODIFICATIONS ARE NOTED ON THE PLAN OR COVER SHEET. ANY NUMBER SHOWN BELOW THE STANDARD DRAWING NUMBER INDICATES THE SPECIFIC ALTERNATE TO BE CONSTRUCTED.

(2) CONSTRUCT 18" RCP (PIPE BEDDING CASE I).
(4) CONSTRUCT 30" RCP (PIPE BEDDING CASE I).
(5) CONSTRUCT 36" RCP (PIPE BEDDING CASE I).
(6) CONSTRUCT 42" RCP (PIPE BEDDING CASE I).
(7) CONSTRUCT 48" RCP (PIPE BEDDING CASE I).
(20) REMOVE INTERFERING PORTION OF EXISTING STORM DRAIN LINE.

CURVE/LINE DATA

⬡	DELTA/BEARING	RADIUS	LEN./DIST.	TANGENT
(A)	N44°37'08"E	----	787.17'	----
(B)	71°33'08"	45.00'	56.20'	32.43'
(C)	N26°56'25"E	----	156.63'	----
(D)	N44°37'08"E	----	93.74'	----
(E)	90°00'08"	22.50'	35.34'	22.50'
(F)	N45°23'01"W	----	12.00'	----
(G)	N75°22'52"E	----	12.69'	----
(H)	N89°36'59"W	----	9.19'	----
(I)	N18°20'23"W	----	13.13'	----

JUNCTION STRUCTURE DATA

LATERAL	A	B	C'	D_1	D_2	E'	L'	ELEV. "S"	ELEV. "R"
LATERAL "A1"	00°00'00"	36"	23.0'	42"	36"	23.4'	17.0'	738.41	739.17
LATERAL "A2"	45°16'23"	18"	5.6'	36"	36"	3.4'	3.2'	741.75	743.31
LATERAL "A1-1"	60°00'00"	18"	5.0'	42"	42"	2.5'	2.6'	742.34	743.40
LATERAL "A1-2"	45°00'00"	18"	6.0'	36"	30"	5.1'	6.4'	745.33	746.69

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

REGISTERED PROFESSIONAL ENGINEER STEVE J. HOSFORD NO. 42280 EXP. 03/31/04 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	DRAWN BY:	CHECKED BY:
AE/OS	AE/OS	JLC

PLANS PREPARED UNDER THE SUPERVISION OF:
STEVE J. HOSFORD RCE 42280 — 11-26-03 DATE

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CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		12/9/03
STREET SERVICES		
CHIEF INSPECTOR		12/8/03
SURVEYOR		12/8/03

APPROVED BY: CITY ENGINEER
DATE: 12/11/03

WELLS AVENUE STORM DRAIN

JONES AVE. TO TYLER ST.
LATERALS "A1", "A2", "A1-1", "A1-2"

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

ACCT. NO. 9534630214-440302XX

D-734

SHEET 2 OF 8

FILE NO.

INDEXED 5-24-04

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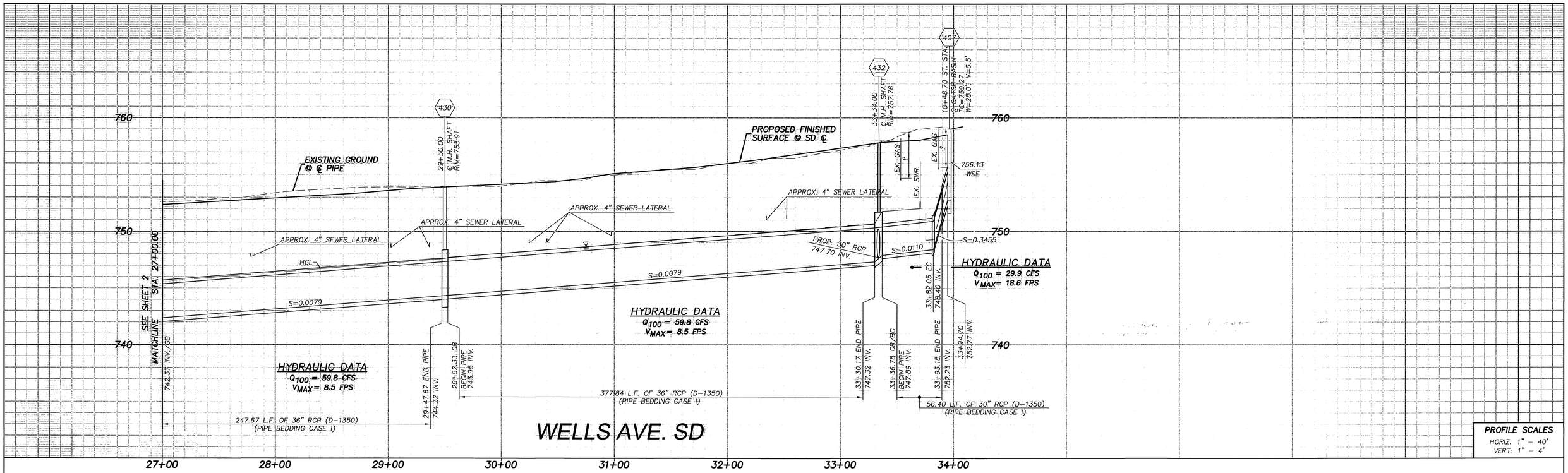
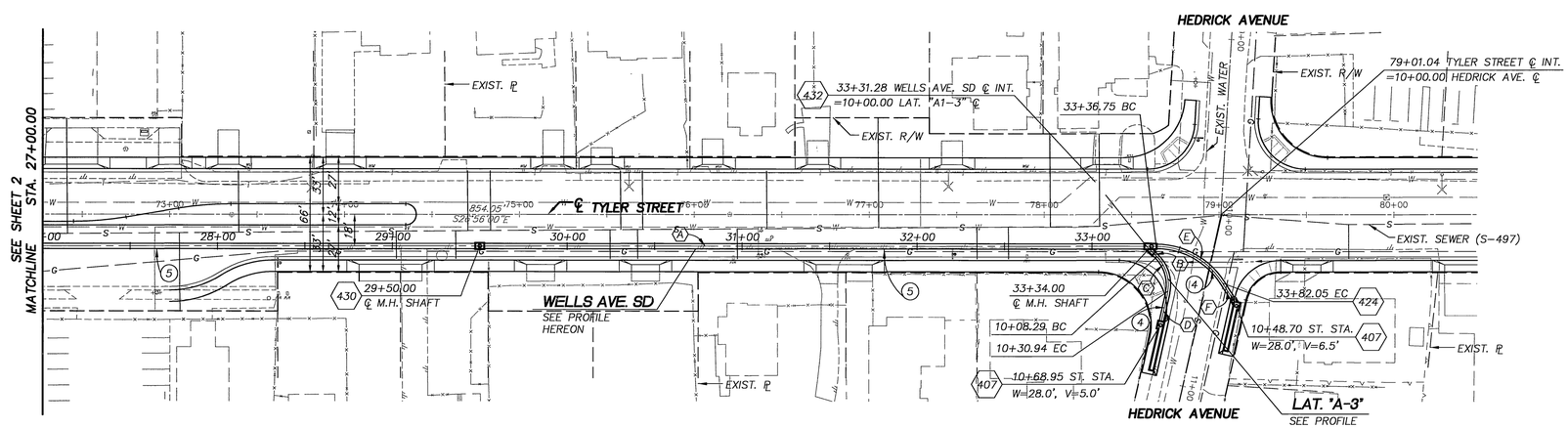


PROFILE SCALES
HORIZ: 1" = 40'
VERT: 1" = 4'



WELLS AVE. SD

CONSTRUCTION NOTES

NUMBERS ABOVE 100 IN A HEXAGON ON THE PLAN REFER TO THE RESPECTIVE STANDARD DRAWING AND SHALL BE CONSTRUCTED ACCORDINGLY. UNLESS MODIFICATIONS ARE NOTED ON THE PLAN OR COVER SHEET. ANY NUMBER SHOWN BELOW THE STANDARD DRAWING NUMBER INDICATES THE SPECIFIC ALTERNATE TO BE CONSTRUCTED.

(4) CONSTRUCT 30" RCP (PIPE BEDDING CASE I).

(5) CONSTRUCT 36" RCP (PIPE BEDDING CASE I).

CURVE/LINE DATA

	DELTA/BEARING	RADIUS	LEN./DIST.	TANGENT
A	N26°56'00"W	----	636.75'	----
B	N18°04'00"E	----	8.29'	----
C	57°40'45"	22.50'	22.65'	12.39'
D	N75°44'44"E	----	16.62'	----
E	57°40'45"	45.00'	45.30'	24.78'
F	N30°44'44"E	----	12.64'	----

JUNCTION STRUCTURE DATA

LATERAL	A	B	C'	D_1	D_2	E'	L	ELEV. "S"	ELEV. "R"
LATERAL "A-3"	45°00'00"	30"	5.6'	36"	30"	5.5'	6.6'	748.21	748.71

NOTE DEPTH OF EXISTING UTILITIES SHOWN ON THE PROFILE HAVE BEEN ESTIMATED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE DEPTH OF UTILITIES AND CONFIRMING CONFLICTS.

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

REGISTERED PROFESSIONAL ENGINEER STEVE J. HOSFORD NO. 42280 EXP. 03/31/04 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	DRAWN BY:	CHECKED BY:
AE/OS	AE/OS	JLC

PLANS PREPARED UNDER THE SUPERVISION OF:
STEVE J. HOSFORD RCE 42280 — DATE 11-26-03

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CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
STREET SERVICES		
CHIEF INSPECTOR		11/18/03
SURVEYOR		

APPROVED BY: CITY ENGINEER
DATE: 12/11/03

WELLS AVENUE STORM DRAIN
JONES AVE. TO TYLER ST.
WELLS AVE. SD AND LATERAL "A-3"
HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

ACCT. NO. 9534630214-440302XX
D-734
SHEET 3 OF 8
FILE NO.

INDEXED 5-24-04 JH

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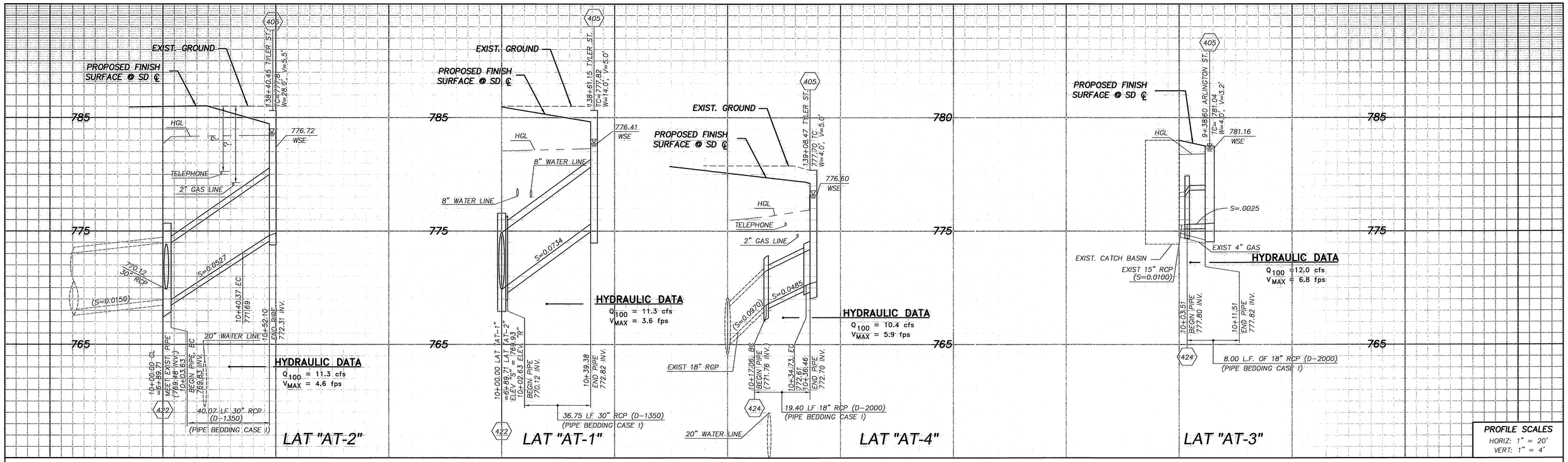
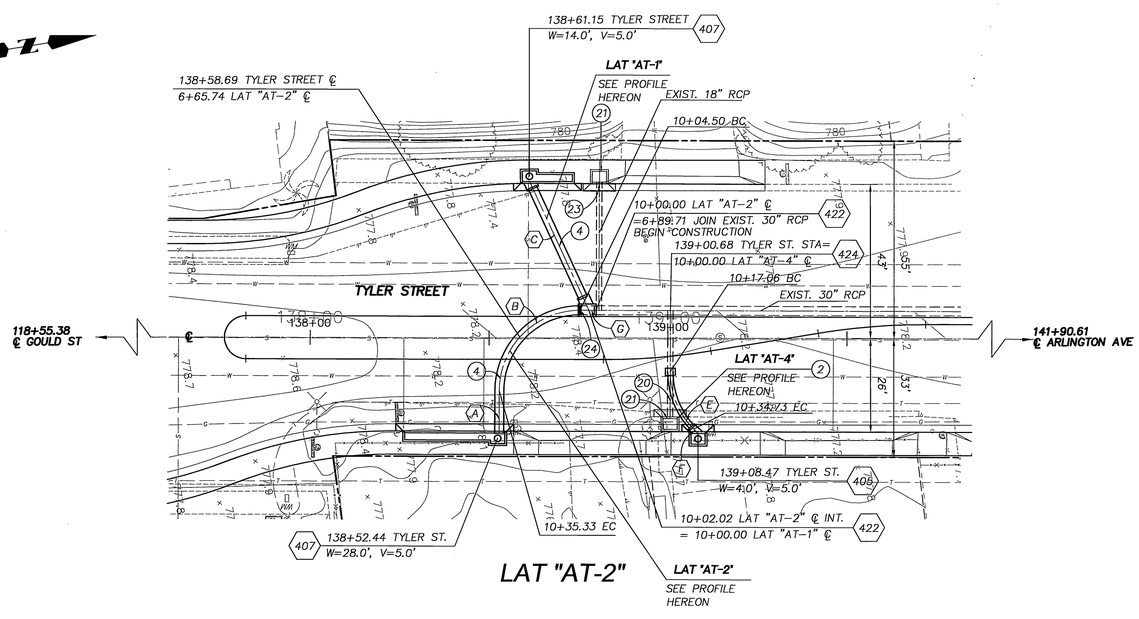
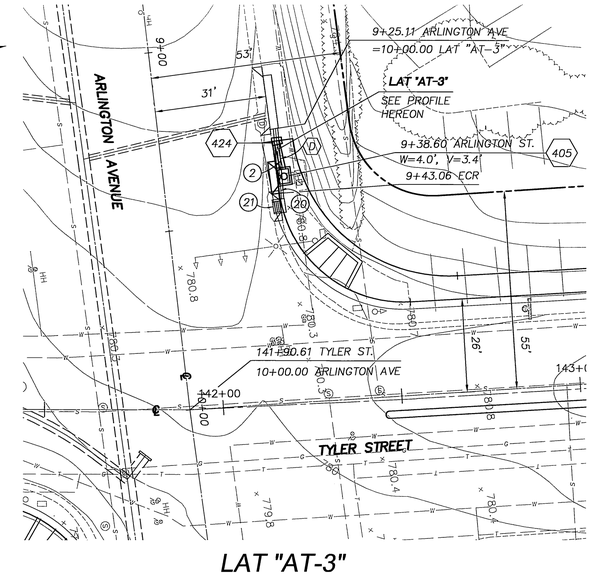


PROFILE SCALES
HORIZ: 1" = 20'
VERT: 1" = 4'





CONSTRUCTION NOTES

NUMBERS ABOVE 100 IN A HEXAGON ON THE PLAN REFER TO THE RESPECTIVE STANDARD DRAWING AND SHALL BE CONSTRUCTED ACCORDINGLY. UNLESS MODIFICATIONS ARE NOTED ON THE PLAN OR COVER SHEET. ANY NUMBER SHOWN BELOW THE STANDARD DRAWING NUMBER INDICATES THE SPECIFIC ALTERNATE TO BE CONSTRUCTED.

(2) CONSTRUCT 18" RCP (PIPE BEDDING CASE I).
(3) CONSTRUCT 24" RCP (PIPE BEDDING CASE I).
(4) CONSTRUCT 30" RCP (PIPE BEDDING CASE I).
(20) REMOVE INTERFERING PORTION OF EXISTING STORM DRAIN LINE.
(21) REMOVE EXISTING CATCH BASIN.
(23) SEAL 18" RCP WITH BRICK AND MORTAR.
(24) REMOVE EXISTING BULKHEAD.

CURVE/LINE DATA

⬡	DELTA/BEARING	RADIUS	LEN./DIST.	TANGENT
A	N80°53'12"W	–	4.70'	–
B	90°03'59"	22.50'	35.37'	22.53'
C	N74°10'47"E	–	39.45'	–
D	N86°10'24"E	–	8.00'	–
E	44°59'09"	22.50'	17.67'	9.32'
F	N54°10'47"E	–	1.73'	–
G	N09°10'47"E	–	4.50'	–

STORM DRAIN STRUCTURE VARIABLES

LATERAL	A	L	B	C	D1	D2	E'	ELEV. S	ELEV. R
LAT "AT-1"	65°00'00"	5.0'	30"	4.0'	24"	30"	3.1'	769.93	770.12

NOTE DEPTH OF EXISTING UTILITIES SHOWN ON THE PROFILE HAVE BEEN ESTIMATED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE DEPTH OF UTILITIES AND CONFIRMING CONFLICTS.

GRAPHIC SCALE
20 0 10 20 40
1" = 20'

REGISTERED PROFESSIONAL ENGINEER STEVE J. HOSFORD NO. 42280 EXP. 03/31/04 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	DRAWN BY:	CHECKED BY:
AE/OS	AE/OS	JLC

PLANS PREPARED UNDER THE SUPERVISION OF:
STEVE J. HOSFORD RCE 42280 — DATE 11-26-03

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PUBLIC WORKS DEPARTMENT

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PRINCIPAL ENGINEER		
STREET SERVICES		
CHIEF INSPECTOR		
SURVEYOR		

APPROVED BY: CITY ENGINEER
DATE: 12/11/03

WELLS AVENUE STORM DRAIN

LAT "AT-2" AND LAT "AT-3"

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

ACCT. NO. 9534630214-440302XX

D-734

SHEET 4 OF 8

FILE NO.

INDEXED 5-24-04 GH

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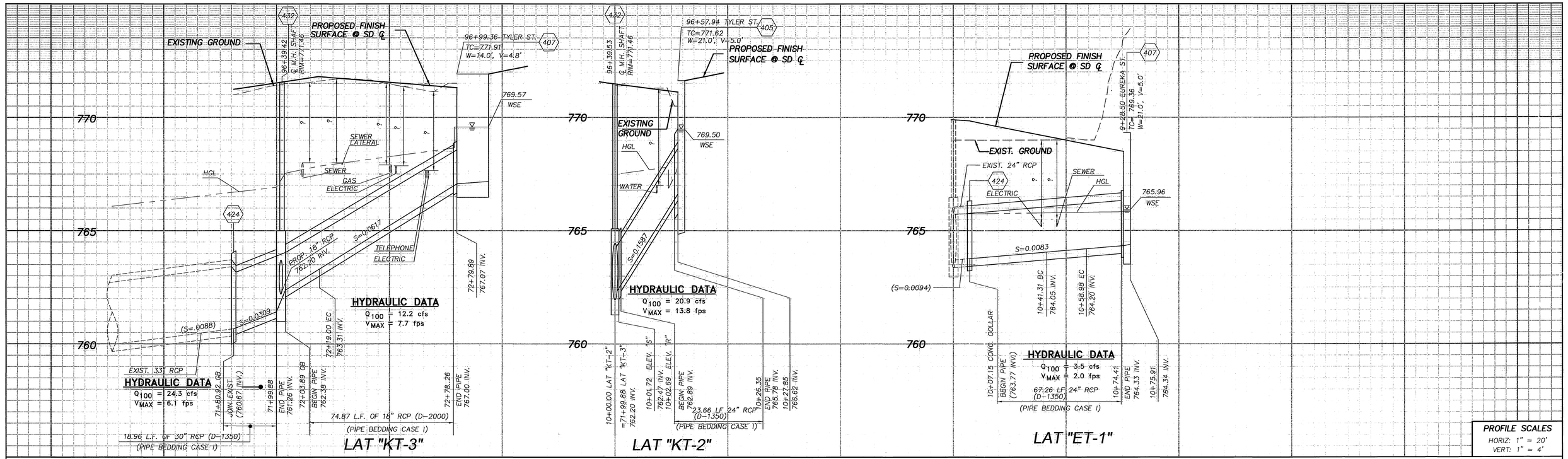
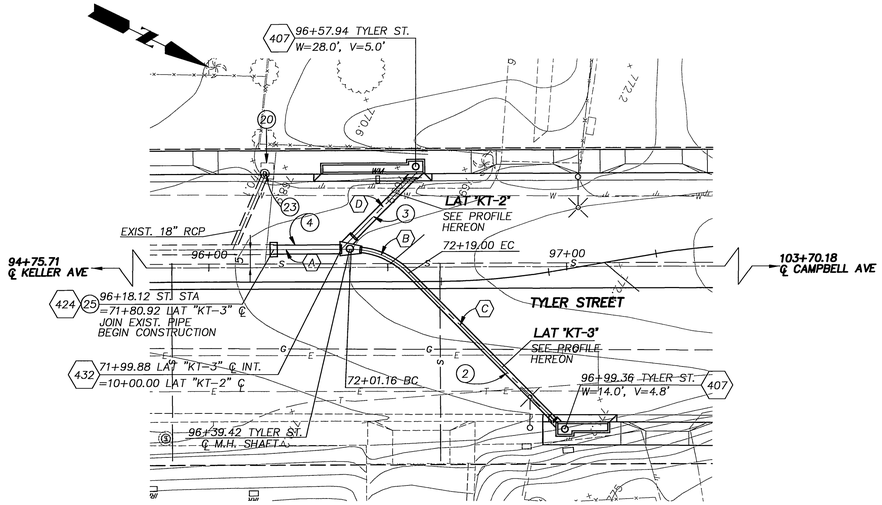
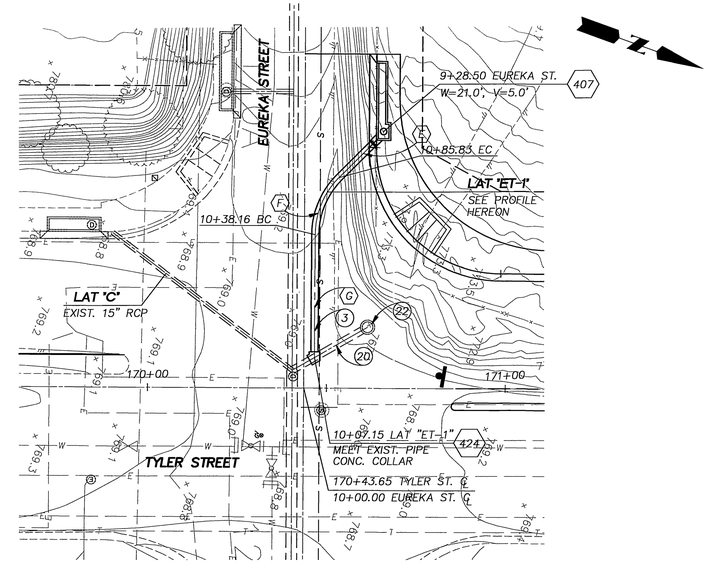


PROFILE SCALES
HORIZ: 1" = 20'
VERT: 1" = 4'



LAT "KT-3"



LAT "ET-1"

CONSTRUCTION NOTES

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(2) CONSTRUCT 18" RCP (PIPE BEDDING CASE I)

(3) CONSTRUCT 24" RCP (PIPE BEDDING CASE I)

(4) CONSTRUCT 30" RCP (PIPE BEDDING CASE I).

(20) REMOVE INTERFERING PORTION OF EXSTING STORM DRAIN LINE.

(22) REMOVE EXISTING CONCRETE DROP INLET

(23) SEAL 18" RCP WITH BRICK AND MORTAR.

(25) REMOVE EXISTING BRICK AND MORTAR.

CURVE/LINE DATA

	DELTA/BEARING	RADIUS	LEN./DIST.	TANGENT
A	N26°15'44"W	–	20.24'	–
B	45°24'42"	22.50'	17.83'	9.41'
C	N19°08'59"E	–	60.90'	–
D	N71°13'24"W	–	27.85'	–
E	N64°40'55"W	–	15.43'	–
F	45°00'00"	22.50'	17.67'	9.32'
G	N70°19'05"E	–	34.16	–
H	N87°40'30"E	–	8.00'	–

STORM DRAIN STRUCTURE VARIABLES

LATERAL	A	L'	B	C'	D1	D2	E'	ELEV. S	ELEV. R
LAT "KT-2"	45°00'00"	6.0'	24"	5.2'	18"	30"	5.7'	762.47	762.89

NOTE DEPTH OF EXISTING UTILITIES SHOWN ON THE PROFILE HAVE BEEN ESTIMATED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE DEPTH OF UTILITIES AND CONFIRMING CONFLICTS.

GRAPHIC SCALE
20 0 10 20 40
1" = 20'

REGISTERED PROFESSIONAL ENGINEER STEVE J. HOSFORD NO. 42280 EXP. 03/31/04 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	DRAWN BY:	CHECKED BY:
AE/OS	AE/OS	JLC

PLANS PREPARED UNDER THE SUPERVISION OF:
STEVE J. HOSFORD RCE 42280 — DATE 11-26-03

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PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
STREET SERVICES		
CHIEF INSPECTOR		
SURVEYOR		

APPROVED BY: CITY ENGINEER
DATE:

WELLS AVENUE STORM DRAIN
TYLER ST. AND EUREKA ST.
HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

ACCT. NO. 9534630214-440302XX
D-734
SHEET 5 OF 8
FILE NO.

INDEXED 5-24-04 JH

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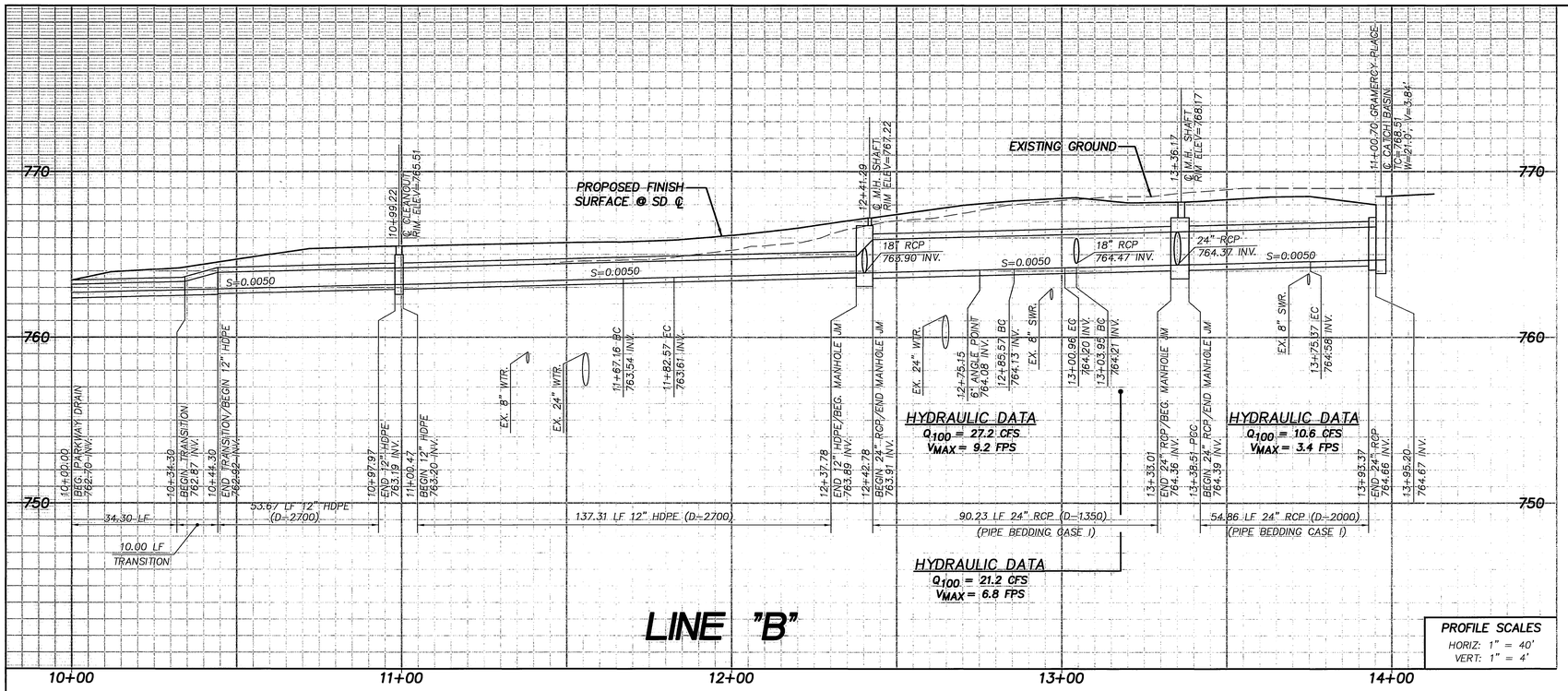

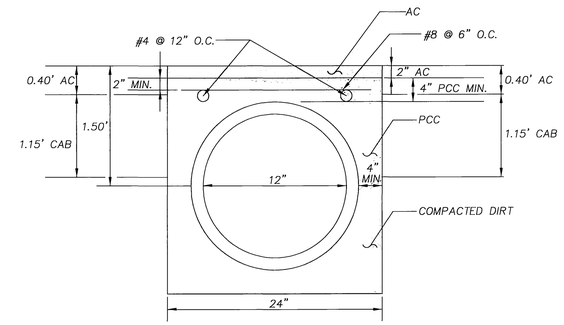

CONCRETE PIPE ENCASEMENT

N.T.S.

CONSTRUCTION NOTES

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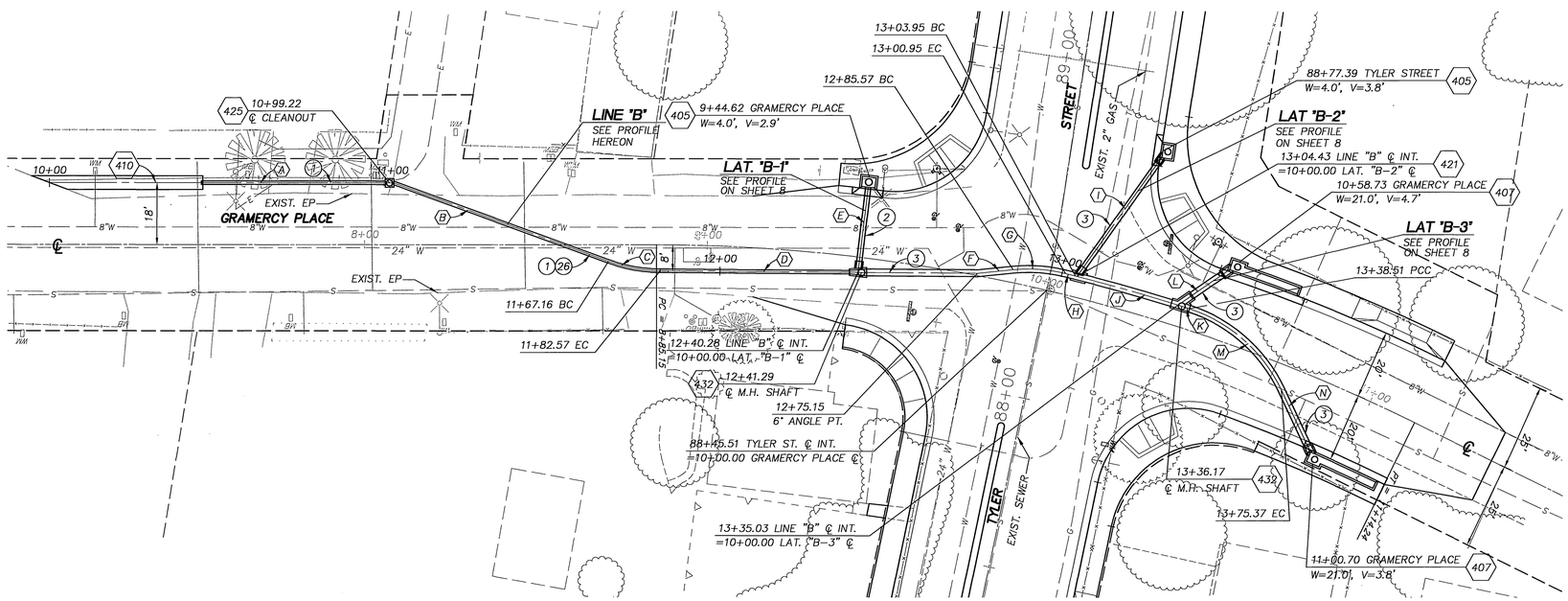
1. CONSTRUCT 12" HDPE.
2. CONSTRUCT 18" RCP (PIPE BEDDING CASE I).
3. CONSTRUCT 24" RCP (PIPE BEDDING CASE I).
21. REMOVE EXISTING CATCH BASIN.
26. CONSTRUCT CONCRETE PIPE ENCASEMENT PER DETAIL ABOVE HEREON.



CURVE/LINE DATA

	DELTA/BEARING	RADIUS	LEN./DIST.	TANGENT
A	N54°51'60"E	----	100.47'	----
B	N74°51'06"E	----	66.69'	----
C	19°36'45"	45.00'	15.40'	7.78'
D	N55°14'21"E	----	92.59'	----
E	N28°20'02"W	----	24.91'	----
F	N49°14'21"E	----	10.41'	----
G	19°35'22"	45.00'	15.39'	7.77'
H	N68°49'43"E	----	3.00'	----
I	N00°23'00"E	----	42.53'	----
J	03°17'23"	506.00'	29.05'	14.53'
K	00°37'22"	506.00'	5.50'	2.75'
L	N20°23'49"E	----	18.25'	----
M	46°56'15"	45.00'	36.86'	19.54'
N	N60°19'17"W	----	19.83'	----

JUNCTION STRUCTURE DATA

LATERAL	A	B	C'	D_1	D_2	E'	L	ELEV. "S"	ELEV. "R"
LAT. "B1"	83°34'23"	18"	3.3'	12"	24"	2.5'	5.0'	763.90	763.91
LAT. "B2"	68°45'31"	18"	3.3'	24"	24"	1.7'	2.4'	764.47	764.48
LAT. "B3"	52°08'51"	24"	5.0'	24"	24"	3.5'	5.5'	764.37	764.39

GRAPHIC SCALE
20 0 10 20 40
1" = 20'

REGISTERED PROFESSIONAL ENGINEER STEVE J. HOSFORD NO. 42280 EXP. 03/31/04 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	DRAWN BY:	CHECKED BY:
AE/OS	AE/OS	JLC

PLANS PREPARED UNDER THE SUPERVISION OF:

STEVE J. HOSFORD RCE 42280 — DATE 11-26-03

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COLTON, CA 92324
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PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
STREET SERVICES		
CHIEF INSPECTOR		
SURVEYOR		

APPROVED BY: CITY ENGINEER
DATE: 12/4/03

WELLS AVENUE STORM DRAIN

JONES AVE. TO TYLER ST.

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

ACCT. NO. 9534630214-440302XX

D-734

SHEET 6 OF 8

FILE NO.

INDEXED 5-24-04 JH

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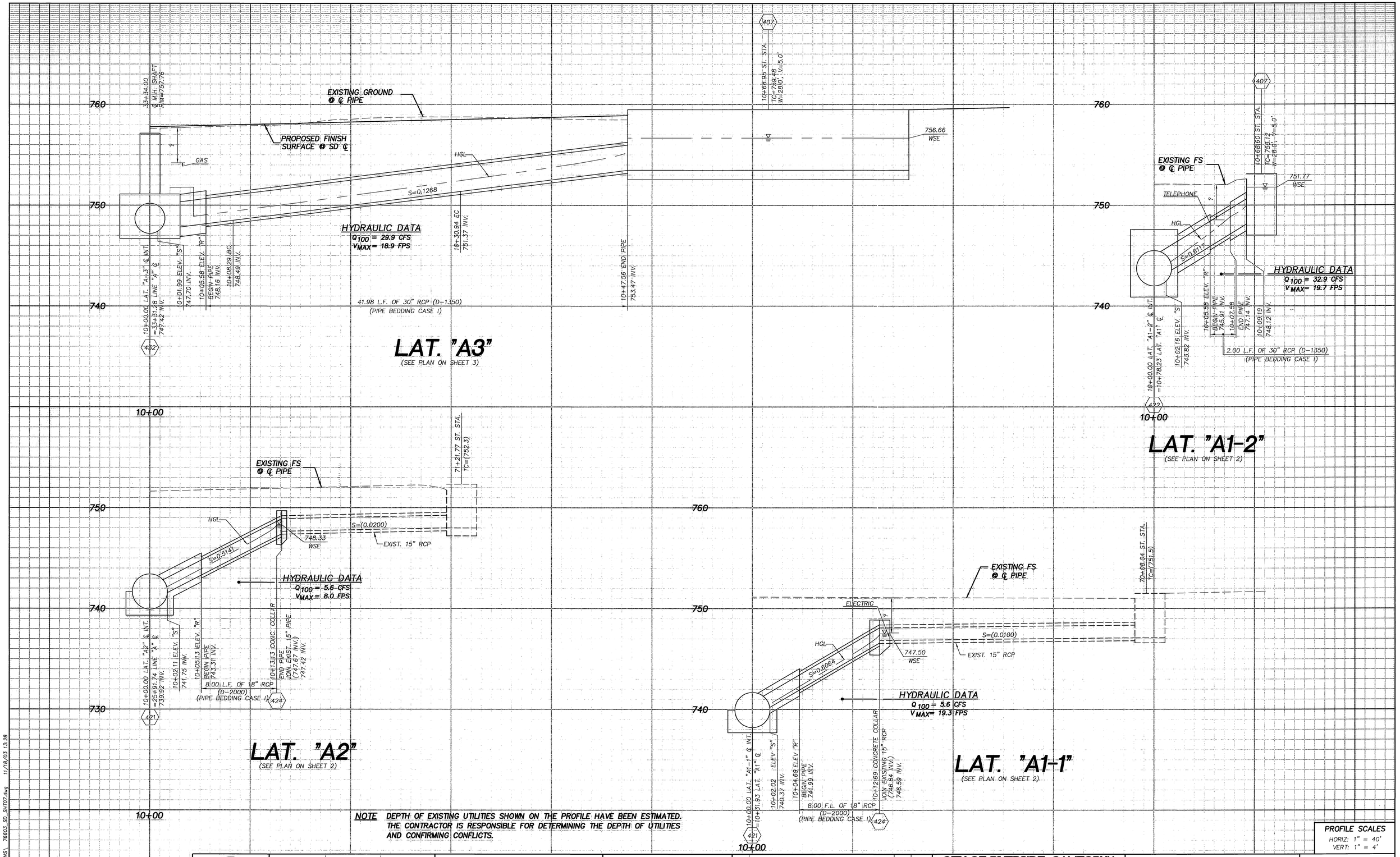

NOTE DEPTH OF EXISTING UTILITIES SHOWN ON THE PROFILE HAVE BEEN ESTIMATED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE DEPTH OF UTILITIES AND CONFIRMING CONFLICTS.

PROFILE SCALES
HORIZ: 1" = 40'
VERT: 1" = 4'

REGISTERED PROFESSIONAL ENGINEER STEVE J. HOSFORD NO. 42280 EXP. 03/31/04 CIVIL STATE OF CALIFORNIA

DESIGNED BY:	DRAWN BY:	CHECKED BY:
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PLANS PREPARED UNDER THE SUPERVISION OF:

STEVE J. HOSFORD RCE 42280 — 11-26-03 DATE

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PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER	DH	12/8/03
STREET SERVICES		
CHIEF INSPECTOR	RC	12/8/03
SURVEYOR		

APPROVED BY: CITY ENGINEER
DATE: 12/16/03

WELLS AVENUE STORM DRAIN
JONES AVE. TO TYLER ST.

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

ACCT. NO. 953463021 4-440302XX

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SHEET 7 OF 8
FILE NO.

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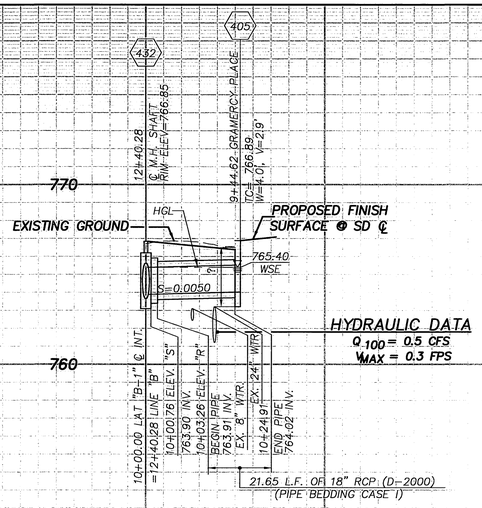
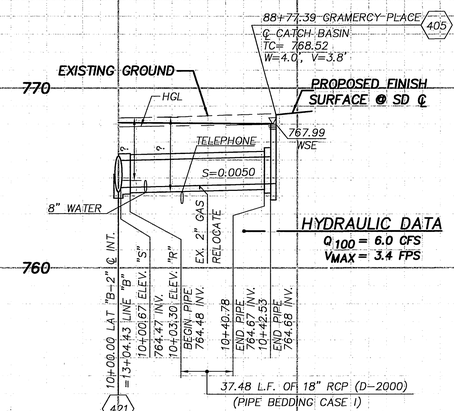


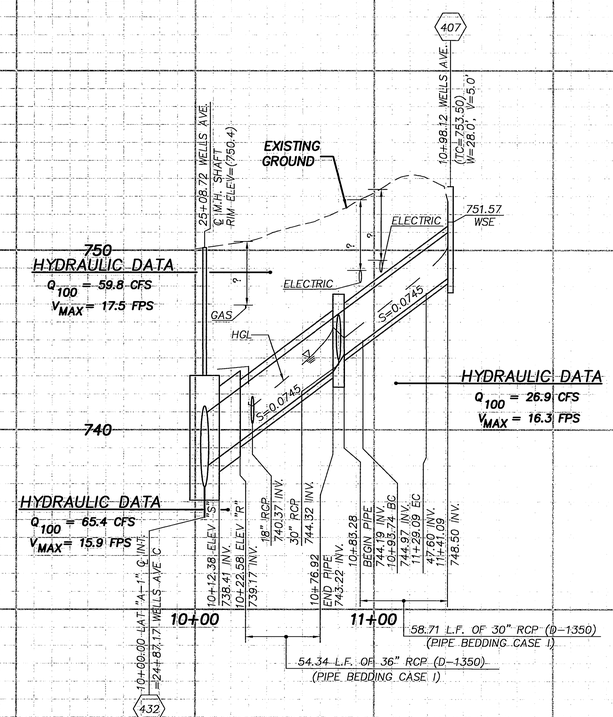
LAT. "B-1"

(SEE PLAN VIEW ON SHEET 6)



LAT. "B-2"

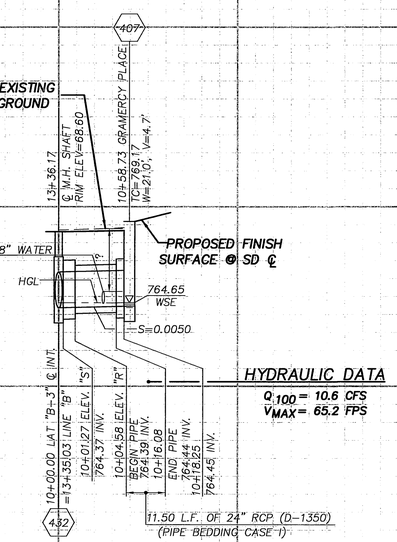
(SEE PLAN VIEW ON SHEET 6)



LAT. "A1"

(SEE PLAN VIEW ON SHEET 2)

NOTE DEPTH OF EXISTING UTILITIES SHOWN ON THE PROFILE HAVE BEEN ESTIMATED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE DEPTH OF UTILITIES AND CONFIRMING CONFLICTS.



LAT. "B-3"

(SEE PLAN VIEW ON SHEET 6)

PROFILE SCALES
HORIZ: 1" = 40'
VERT: 1" = 4'

REGISTERED PROFESSIONAL ENGINEER STEVE J. HOSFORD NO. 42280 EXP. 03/31/04 CIVIL STATE OF CALIFORNIA

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PLANS PREPARED UNDER THE SUPERVISION OF:

STEVE J. HOSFORD RCE 42280 — 11-26-03 DATE

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CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER	DB	12/4/03
STREET SERVICES		
CHIEF INSPECTOR	DP	12/8/03
SURVEYOR	MAA	12/9/03

APPROVED BY: CITY ENGINEER
DATE: 12/11/03

WELLS AVENUE STORM DRAIN
JONES AVE. TO TYLER ST.

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

ACCT. NO. 9534630214-440302XX

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