GENERAL NOTES:

1. NO PERSON SHALL PERFORM ANY CONSTRUCTION ACTIVITY OR INSTALL ANY OBJECTS WITHIN THE PUBLIC RIGHTS–OF–WAY OR EASEMENTS OF THE CITY OF RIVERSIDE WITHOUT A VALID CONSTRUCTION PERMIT OR, A STREET OPENING PERMIT OR AN ENCROACHMENT PERMIT ISSUED BY THE CITY'S PUBLIC WORKS DEPARTMENT.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAR THE RIGHT OF WAY IN ACCORDANCE WITH THE PROVISIONS OF LAW AS IT EFFECTS EACH UTILITY INCLUDING IRRIGATION LINES AND APPURTENANCES AND AT NO COST TO THE CITY.
3. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE DEPARTMENT OF PUBLIC WORKS, STANDARD DRAWINGS, ITS SUPPLEMENTAL NOTES AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION.
4. THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING ACCURACY AND ACCEPTABILITY OF THE WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE CITY.
5. QUANTITIES SHOWN ARE FOR INFORMATION ONLY AND THE CITY OF RIVERSIDE IS NOT RESPONSIBLE FOR THEIR ACCURACY.
6. THE DEVELOPER SHALL BE RESPONSIBLE FOR PRESERVING OR RE–ESTABLISHING AND REFERENCING SURVEY MONUMENTS DESTROYED, DISTURBED OR BURIED AS A RESULT OF CONSTRUCTION SHOWN HEREON.
7. SEE "STREET LIGHTING PLANS" FOR QUANTITY AND LOCATION OF REQUIRED STREET LIGHTS.
8. ALL FLAGGED ELEVATIONS SHALL BE STAKED IN THE FIELD BY THE PRIVATE ENGINEER.
9. WHERE NEW PAVEMENT IS TO JOIN THE EXISTING PAVEMENT, THE EDGE OF THE EXISTING PAVEMENT SHALL BE TRIMMED IN A SMOOTH STRAIGHT LINE. CONSTRUCT MATCH–UP PAVING AS SHOWN ON THE PLANS AND OVERLAY PAVING AS DIRECTED IN THE FIELD TO PRODUCE A SMOOTH SECTION.
10. CONSTRUCT DRIVEWAY APPROACHES PER STANDARD DRAWING 302. EXACT SIZE AND LOCATION TO BE STAKED BY THE PRIVATE ENGINEER PRIOR TO CONSTRUCTION OF THE CURB AND GUTTER.
11. ON ALL AREAS WITHIN PUBLIC RIGHT OF WAY WHERE THE FILL IS ONE (1) FOOT OR GREATER, A LETTER WILL BE REQUIRED FROM THE SOILS ENGINEER, CERTIFYING THE COMPACTION OF THE FILL BELOW SUBGRADE, PRIOR TO ISSUANCE OF THE CONSTRUCTION PERMIT/CUT SHEETS.
12. ALL TRAFFIC SIGNS SHALL BE INSTALLED PRIOR TO OPENING THE STREETS TO TRAFFIC.
13. ANY TRAFFIC CONTROL STRIPING OBLITERATED AND/OR BADLY WORN DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR WITHIN FIVE DAYS AFTER NOTIFICATION FROM THE CITY INSPECTORS..
14. FINAL STRIPING FOR TRAFFIC CONTROL AND/OR PAVEMENT MARKING TO BE THE RESPONSIBILITY OF THE DEVELOPER.
15. THE CONTRACTOR SHALL CALL IN A LOCATION REQUEST TO UNDERGROUND SERVICE ALERT(USA), PHONE # 1–800–227–2600, TWO WORKING DAYS BEFORE DIGGING. NO CONSTRUCTION PERMIT WILL BE ISSUED BY THE PUBLIC WORKS DEPARTMENT INVOLVING EXCAVATION FOR UNDERGROUND FACILITIES UNLESS THE APPLICANT HAS BEEN PROVIDED AN INQUIRY IDENTIFICATION NUMBER BY U.S.A.
16. CONTRACTOR IS TO VERIFY EXISTING SEWER ELEVATION PRIOR TO CONSTRUCTION.
17. LOCATION OF LATERALS TO BE DETERMINED IN THE FIELD AT THE DIRECTION OF THE OWNER. AVOID CONFLICT WITH PROPOSED AND/OR EXISTING FACILITIES.
18. NO FINISHED FLOOR ELEVATION SHALL BE LESS THAN 6" ABOVE THE UPPER MANHOLE RIM ELEVATION OF THE SEWER LINE SEGMENT BEING CONNECTED TO, WITHOUT HAVING A PROPER BACKWATER VALVE INSTALLED IN THE LATERAL.
19. THE SEWER CONTRACTOR SHALL ADJUST MANHOLES TO FINAL GRADE AFTER PAVING IS COMPLETED.
20. IN PAVEMENT OVERLAY AREAS, ANY DISTRESSED EXISTING PAVEMENT SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE INSPECTOR PRIOR TO OVERLAYING WITH A.C. PAVING.
21. OVER ALL NEWLY LAID ASPHALT CONCRETE PAVING, THE CONTRACTOR SHALL APPLY A SEAL COAT OF EMULSIFIED ASPHALT SS–1h AS PER SECTION 203–3 OF THE STANDARD SPECIFICATIONS. RATE OF APPLICATION SHALL BE APPROXIMATELY 0.10 GALLONS PER SQUARE YARD OR AS DIRECTED BY THE ENGINEER.
22. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

UTILITY NOTE

THE CONTRACTOR SHALL CONFIRM LOCATIONS AND DEPTHS OF ALL UNDERGROUND UTILITIES WHETHER SHOWN OR NOT SHOWN ON PLANS. PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICTS.

CONTACT UTILITY COMPANIES BEFORE EXCAVATION

1	PACIFIC BELL	(909) 359–2273
2	SO. CALIF. GAS CO.	(909) 335–7716
(*) 3.	SO. PACIFIC PIPELINE (JET FUEL) KINDER MORGAN ENERGY (DON QUINN)	(714) 560–4940
(*) 4.	A.T.& T. (FIBER OPTIC) (FRANCO JAUREGUI)	(909) 776–3914

(*) NOTIFY PRIOR TO EXCAVATION

NOTICE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS IS FOR INFORMATION ONLY, HAVING BEEN OBTAINED BY A SEARCH OF AVAILABLE RECORDS. WHILE DUE CARE WAS TAKEN IN THE PREPARATION OF THIS MATERIAL, R.B. ENGINEERING CANNOT AND DOES NOT GUARANTEE THE ACCURACY NOR COMPLETENESS OF SAID INFORMATION.

ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK SHOWN ON OR RELATED TO THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT ALL EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATIONS" OF THE U.S. DEPARTMENT OF LABOR, AND THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS' "CONSTRUCTION SAFETY ORDERS".

THE CIVIL ENGINEER SHALL NOT BE RESPONSIBLE IN ANY WAY FOR THE CONTRACTORS' AND SUBCONTRACTOR'S COMPLIANCE WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATIONS" OF THE U.S. DEPARTMENT OF LABOR, AND THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS' "CONSTRUCTION SAFETY ORDERS".

WATER DEPARTMENT NOTE

DEVELOPER TO GIVE CITY WATER DIVISION FIVE (5) WORKING DAYS WRITTEN NOTICE PRIOR TO START OF CONSTRUCTION AND TO ALLOW CITY TEN (10) WORKING DAYS FOR COMPLETION OF WORK. (909) 351–6368

CONSTRUCTION NOTES AND QUANTITY ESTIMATE

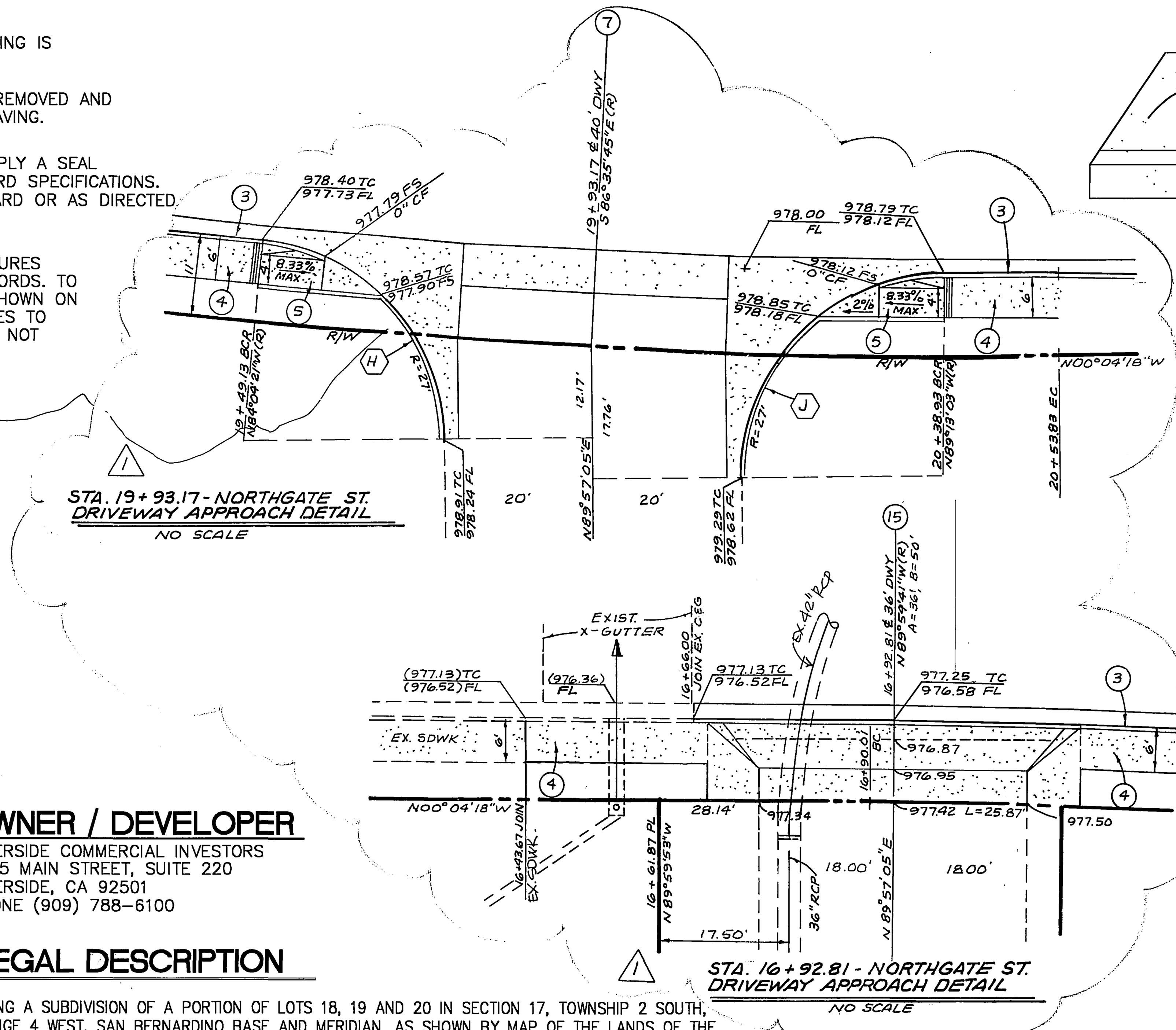
ITEM	DESCRIPTION	QUANTITY	PHASE I	PHASE II	UNIT
1	CONST. 4" A.C. OVER 8" AGG. BASE (CLASS 2) PER S.R.–1598, R= 63	34,865	8,665	26,200	SF
2	PLACE FOG SEAL PER GENERAL NOTE NO. 21	34,865	963	33,902	SY
3	CONST. 8" CURB & GUTTER PER CITY OF RIVERSIDE STD. DWG. NO. 200, TYPE 1	2145	592	1553	LF
4	CONST. SIDEWALK PER CITY OF RIVERSIDE STD. DWG. NO. 325	12,290	2905	9,385	SF
5	CONST. WHEELCHAIR RAMP PER CITY OF RIVERSIDE STD. DWG. NO. 304, TYPE III	4	4	–	EA
6	PLANT STREET TREES TO THE SPECIFICATIONS OF THE PARK & RECREATION DEPT.	43	13	30	EA
7	CONST. CROSS GUTTER PER CITY STD. 220, W=6'	~~1465~~ 3635	1465	2,170	SF
8	REMOVE EXIST. REDWOOD HEADER AND JOIN EXIST. PVMT.	2110	460	1650	LF
9	CONST. SEWER LATERAL W/P.L. C.O. PER RIVERSIDE CITY STD. DWG. NO. 562A	1	1	–	EA
10	CONST. VARIABLE THICKNESS A.C. PAVEMENT OVERLAY	4350	4350	–	SF
11	ADJUST EXIST. MANHOLE TO GRADE	4	2	2	EA
12	CONST. CATCH BASIN PER CITY OF RIVERSIDE STD. 405, W=8.00', V=3.30'	1	–	1	EA
13	CONST. 18" R.C.P., 2000–D	3	–	3	LF
14	CONST. WHEELCHAIR RAMP PER CITY OF RIVERSIDE STD. DWG. NO. 304, TYPE I	1	–	1	EA
15	CONST. DRIVEWAY APPROACH PER CITY OF RIVERSIDE STD DWG. NO 302			487	SF

NOTE TO CONTRACTOR:

THE ESTIMATED QUANTITIES HEREON ARE ONLY FOR THE PURPOSE OF OBTAINING THE NECESSARY PERMITS. THE CONTRACTOR SHALL PERFORM HIS OWN QUANTITY TAKEOFF BEFORE SUBMITTING A BID FOR ANY PORTION OF THE IMPROVEMENTS COVERED BY THESE PLANS.

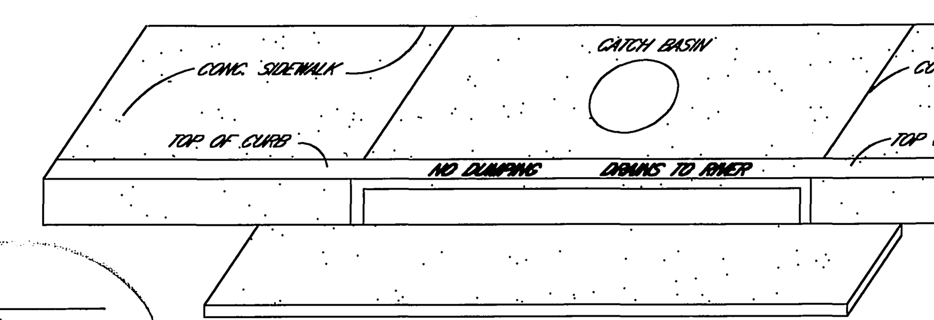
LEGEND

S........	SOUTH	PL......	PROPERTY LINE
N........	NORTH	HDR......	HEADER
E.........	EAST	MH........	MANHOLE
W........	WEST	FS.........	FINISHED SURFACE
NLY.....	NORTHERLY	FF.........	FINISHED FLOOR
WLY.....	WESTERLY	–S– ...	SEWER
ELY.....	EASTERLY	WW........	WATER WASTE
SLY.....	SOUTHERLY	–W– ...	WATER
N/S....	NORTH/SIDE	BW........	BACK OF WALK
FOL.....	FOLIAGE	CLF.......	CHAIN LINK FENCE
COR....	CORNER	EP.........	EDGE OF PAVEMENT
BLDG...	BUILDING	SD.........	STORM DRAIN
TC.......	TOP OF CURB	IP..........	IRON PIPE
FL.......	FLOWLINE	TR.........	TOP OF RAIL
TB.......	TOP OF BERM	ANG PT..	ANGLE POINT
AC.......	ASPHALT CONCRETE	......	FIRE HYDRANT
ST.......	STREET	..	STREET LIGHT
PP......	POWER POLE	(421.0).	EXISTING ELEVATION
FD.......	FOUND	–G–......	GAS
CLR.....	CLEAR	–E–	ELECTRIC
–T–....	TELEPHONE	SPR.......	SPRINKLER
CF.......	CURB FACE	––x––	FENCE
C&G....	CURB & GUTTER	P.I.V.....	POST INDICATOR VALVE
F.D.C...	FIRE DEPT. CONNECT	FW........	FIRE WATER VALVE
	PROP. AC PVMT		EXIST. AC PVMT



STA. 19+93.17 - NORTHGATE ST. DRIVEWAY APPROACH DETAIL
NO SCALE

STA. 16+92.81 - NORTHGATE ST. DRIVEWAY APPROACH DETAIL
NO SCALE

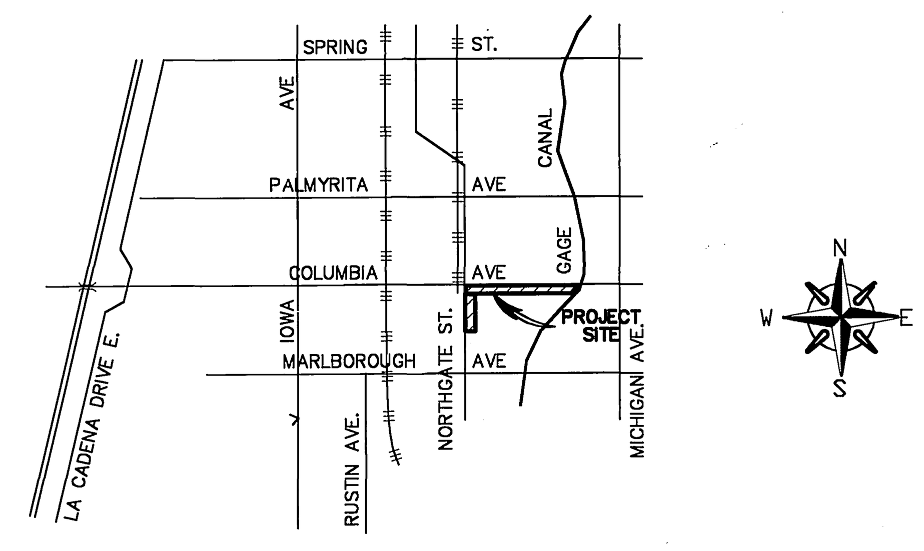


CATCH BASIN STENCILING DETAIL
NO SCALE

- (A) STENCILS TO HAVE 2" LETTERS AS FOLLOWS:
  NO DUMPING
  DRAINS TO RIVER
- (B) PLACE BOTH STENCILS CENTERED WITHIN THE CATCH BASIN OPENING AND WITHIN THE TOP OF CURB.
- (C) SPRAY BOTH STENCILS WITH WHITE PAINT.
- (D) REMOVE STENCILS WHEN PAINT IS DRY.

SHEET INDEX

SHEET 1–	TITLE SHEET
SHEET 2–	TYPICAL SECTIONS & DETAIL SHEET
SHEET 3–	COLUMBIA AVE. STA 26+77.73 TO STA. 32+00.00
SHEET 4–	COLUMBIA AVE. STA 32+00.00 TO STA. 38+00.00
SHEET 5–	COLUMBIA AVE. STA 38+00.00 TO STA. 42+34.47
SHEET 6–	NORTHGATE ST. STA 16+66.00 TO STA. 22+47.67



VICINITY MAP
N.T.S

Underground Service Alert
CALL BEFORE YOU DIG
Call TOLL FREE
1-800
227-2600
TWO WORKING DAYS BEFORE YOU DIG

OWNER / DEVELOPER

RIVERSIDE COMMERCIAL INVESTORS
3685 MAIN STREET, SUITE 220
RIVERSIDE, CA 92501
PHONE (909) 788–6100

LEGAL DESCRIPTION

BEING A SUBDIVISION OF A PORTION OF LOTS 18, 19 AND 20 IN SECTION 17, TOWNSHIP 2 SOUTH, RANGE 4 WEST, SAN BERNARDINO BASE AND MERIDIAN, AS SHOWN BY MAP OF THE LANDS OF THE EAST RIVERSIDE LANDS COMPANY ON FILE IN BOOK 6 PAGE 44 OF MAPS, RECORDS OF SAN BERNARDINO COUNTY, CALIFORNIA.

CITY TAX CERTIFICATE NO. 106813, EXP. 03/14/2003

* SPECIAL NOTE
PLEASE NOTIFY PRIOR TO START OF EXCAVATION

A. T.& T. – FIBER OPTIC
MR. R. MARTINEZ
* (909) 776–3914
APPROVED: DATE

KINDER MORGAN ENERGY PARTNERS– MR. R. A. BUCHOZ
BY: * (909) 873–5153
REVIEWED FOR CONFLICTS: DATE

PACIFIC BELL TELEPHONE
[signature] 1/14/03
APPROVED: DATE

CITY OF RIVERSIDE WATER SYSTEM
[signature] 1/13/03
APPROVED DATE

APPROVED BY:
[signature] 1.13.03
UTILITIES ENGINEER–ELECTRIC DATE

BENCH MARK J8-H3

LEAD & TACK IN TOP OF CONC. OF CATCH BASIN. LOC. IN THE N/W COR OF CATCH BASIN IN THE S/W COR. OF PALMYRITA AVE. & NORTHGATE S'LY. OF C.L. OF P.I.

ELEVATION: 981.648

REGISTERED PROFESSIONAL ENGINEER ROBERT J. BELL No. 37888 Exp. 3-31-05 CIVIL STATE OF CALIFORNIA

RB ENGINEERING
civil engineering · surveying · environmental·planning
3198 N. ASHWOOD STREET
ORANGE, CA 92865
PHONE (714) 637–8100
FAX (714) 921–2223
[signature] 1-13-03
ROBERT BELL DATE
R.C.E. 37888 EXP. 3–31–05

MARK	REVISIONS	APPR.	DATE
1	ADDED DWY DETAILS. REV. CONST. NOTES	RJ2	2.11.04

DESIGNED BY C.H. DRAWN BY C.H. CHECKED BY R.B.

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	2/28/2003	
PARK DEPARTMENT	1/13/03	
TRAFFIC DIVISION	2/24/03	
DEPUTY P.W. DIRECTOR		
STREET SERVICES	1/14/3	

APPROVED BY [signature]
PUBLIC WORKS DIRECTOR
DATE 3/3/03

STREET IMPROVEMENT PLAN AND PROFILE

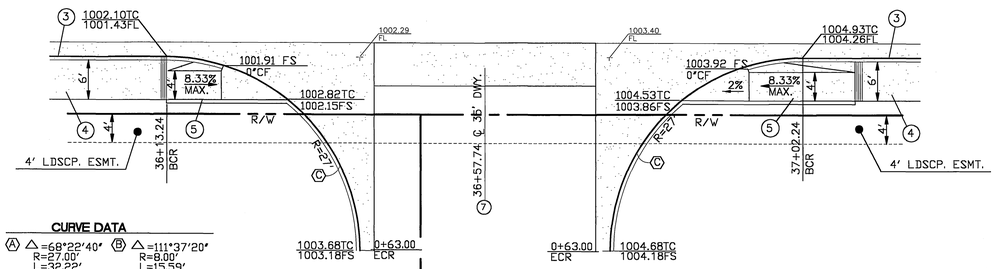
700 COLUMBIA AVENUE
SOUTH SIDE: FROM NORTHGATE ST. E'LY TO GAGE CANAL
P.M. NO. 30585

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

ACCOUNT NO.
R-3684
SHEET 1 OF 6

INDEXED 3-11-03 LFH

01–3681.DWG / 01–09–03



CURVE DATA

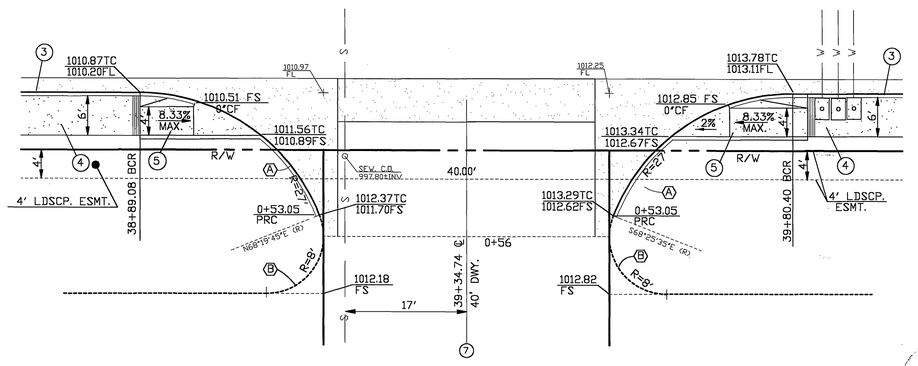
Ⓐ △=68°22'40" R=27.00' L=32.22' T=18.34'

Ⓑ △=111°37'20" R=8.00' L=15.59' T=11.78'

Ⓒ △=90°00'00" R=27.00' L=42.41' T=27.00'

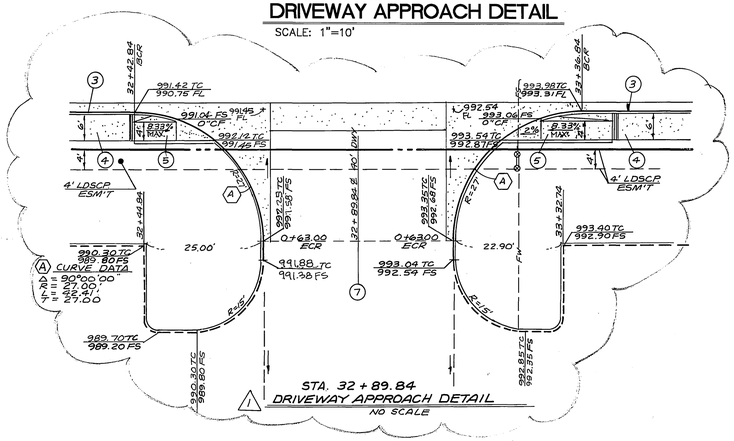
STA. 36+57.74
DRIVEWAY APPROACH DETAIL

SCALE: 1"=10'



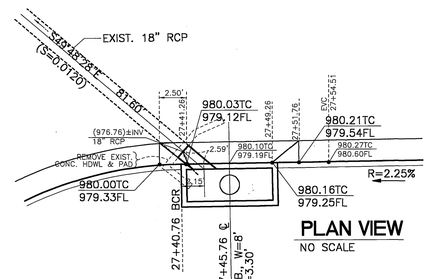
STA. 39+34.74
DRIVEWAY APPROACH DETAIL

SCALE: 1"=10'



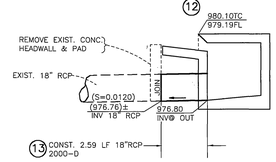
STA. 32 + 89.84
DRIVEWAY APPROACH DETAIL

NO SCALE



PLAN VIEW

NO SCALE

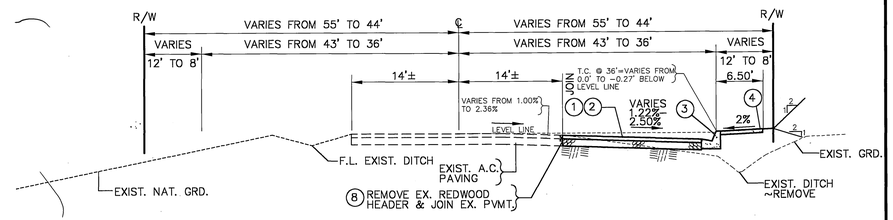


PROFILE

NO SCALE

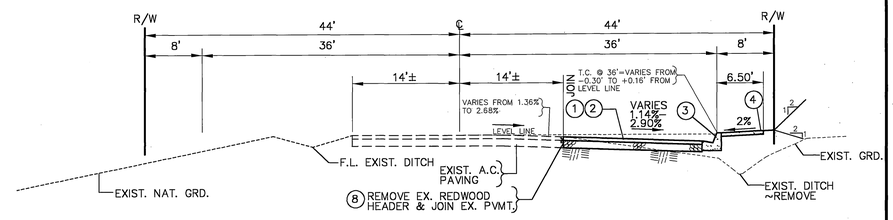
STA. 27+45.76
CATCH BASIN DETAIL

NO SCALE



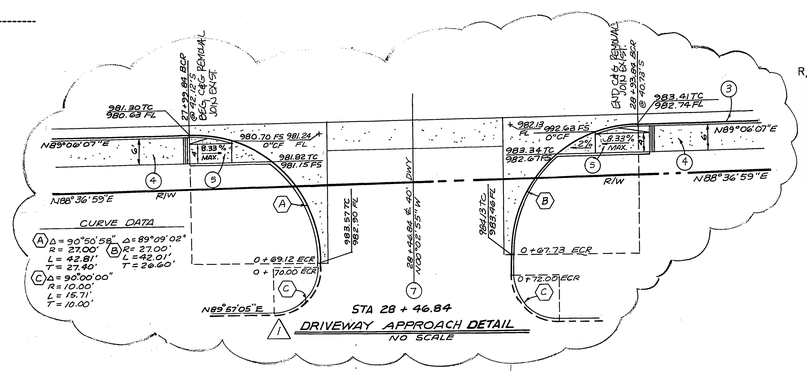
TYPICAL SECTION –NO SCALE

COLUMBIA AVENUE
STA. 27+40.76 TO STA. 32+12.82
T.I. = 9.0



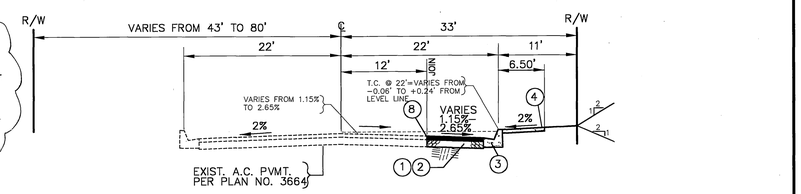
TYPICAL SECTION –NO SCALE

COLUMBIA AVENUE
STA. 32+12.82 TO STA. 42+34.47
T.I. = 9.0



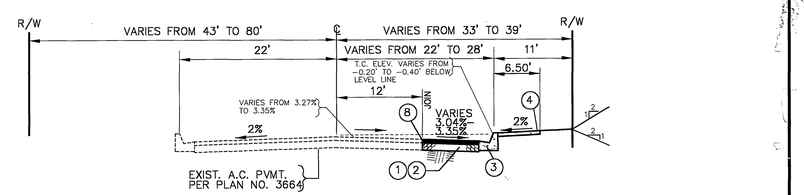
STA 28 + 46.84
DRIVEWAY APPROACH DETAIL

NO SCALE



TYPICAL SECTION –NO SCALE

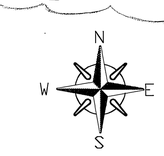
NORTHGATE STREET
STA. 16+66.00 TO STA. 20+75.00
T.I. = 8.0



TYPICAL SECTION –NO SCALE

NORTHGATE STREET
STA. 20+75.00 TO STA. 22+47.67
T.I. = 8.0

Underground Service Alert
Call TOLL FREE
1-800
227-2600
TWO WORKING DAYS BEFORE YOU DIG



SCALE: 1"=20'

CONSTRUCTION NOTES

ITEM	DESCRIPTION
1	CONST. 4" A.C. OVER 8 " AGG. BASE (CLASS 2) PER S.R.-1978, R=63
2	PLACE FOG SEAL PER GENERAL NOTE NO. 21
3	CONST. 8" CURB & GUTTER PER CITY OF RIVERSIDE STD. DWG. NO. 200, TYPE 1
4	CONST. SIDEWALK PER CITY OF RIVERSIDE STD. DWG. NO. 325
5	CONST. WHEELCHAIR RAMP PER CITY OF RIVERSIDE STD. DWG. NO. 304, TYPE III
6	PLANT STREET TREES TO THE SPECIFICATIONS OF THE PARK & RECREATION DEPT.
7	CONST. CROSS GUTTER PER CITY STD. 220, W=6'
8	REMOVE EXIST. REDWOOD HEADER AND JOIN EXIST. PVMT.
9	CONST. SEWER LATERAL W/P.L. C.O. PER RIVERSIDE CITY STD. DWG. NO. 562A
10	CONST. VARIABLE THICKNESS A. C. PAVEMENT OVERLAY
11	ADJUST EXIST. MANHOLE TO GRADE
12	CONST. CATCH BASIN PER CITY OF RIVERSIDE STD. NO. 405, W=8.00', V= 3.30'
13	CONST. 18" RCP , 2000–D
14	CONST. WHEELCHAIR RAMP PER CITY OF RIVERSIDE STD. DWG. NO. 304, TYPE I

CITY TAX CERTIFICATE NO. 106813, EXP. 03/14/2003

CITY OF RIVERSIDE WATER SYSTEM
APPROVED 1/13/03 DATE

PACIFIC BELL TELEPHONE
APPROVED: 1/14/03 DATE

APPROVED BY:
UTILITIES ENGINEER–ELECTRIC 1-13-03 DATE

BENCH MARK J8-H3

LEAD & TACK IN TOP OF CONC. OF CATCH BASIN. LOC. IN THE N/W COR OF CATCH BASIN IN THE S/W COR. OF PALMYRITA AVE. & NORTHGATE S'LY. OF C.L. OF P.I.

ELEVATION: 981.648

REGISTERED PROFESSIONAL ENGINEER ROBERT J. BEM No. 37888 Exp. 3-31-05 CIVIL STATE OF CALIFORNIA

BB ENGINEERING
civil engineering · surveying · environmental planning
3198 N. ASHWOOD STREET
ORANGE, CA 92865
PHONE (714) 637-8100
FAX (714) 921-2223
ROBERT BEM 1-13-03 DATE
R.C.E. 37888 EXP. 3–31–05

MARK	REVISIONS	APPR.	DATE
1	ADDED DWY DETAILS	RJZ.	2-11-04

DESIGNED BY C.H. DRAWN BY C.H. CHECKED BY R.B.

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	1/10/03	
PARK DEPARTMENT	1/13/03	
TRAFFIC DIVISION	2/24/03	
DEPUTY P.W. DIRECTOR		
STREET SERVICES	1/14/03	

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 2/3/04

DETAILS AND CROSS SECTIONS

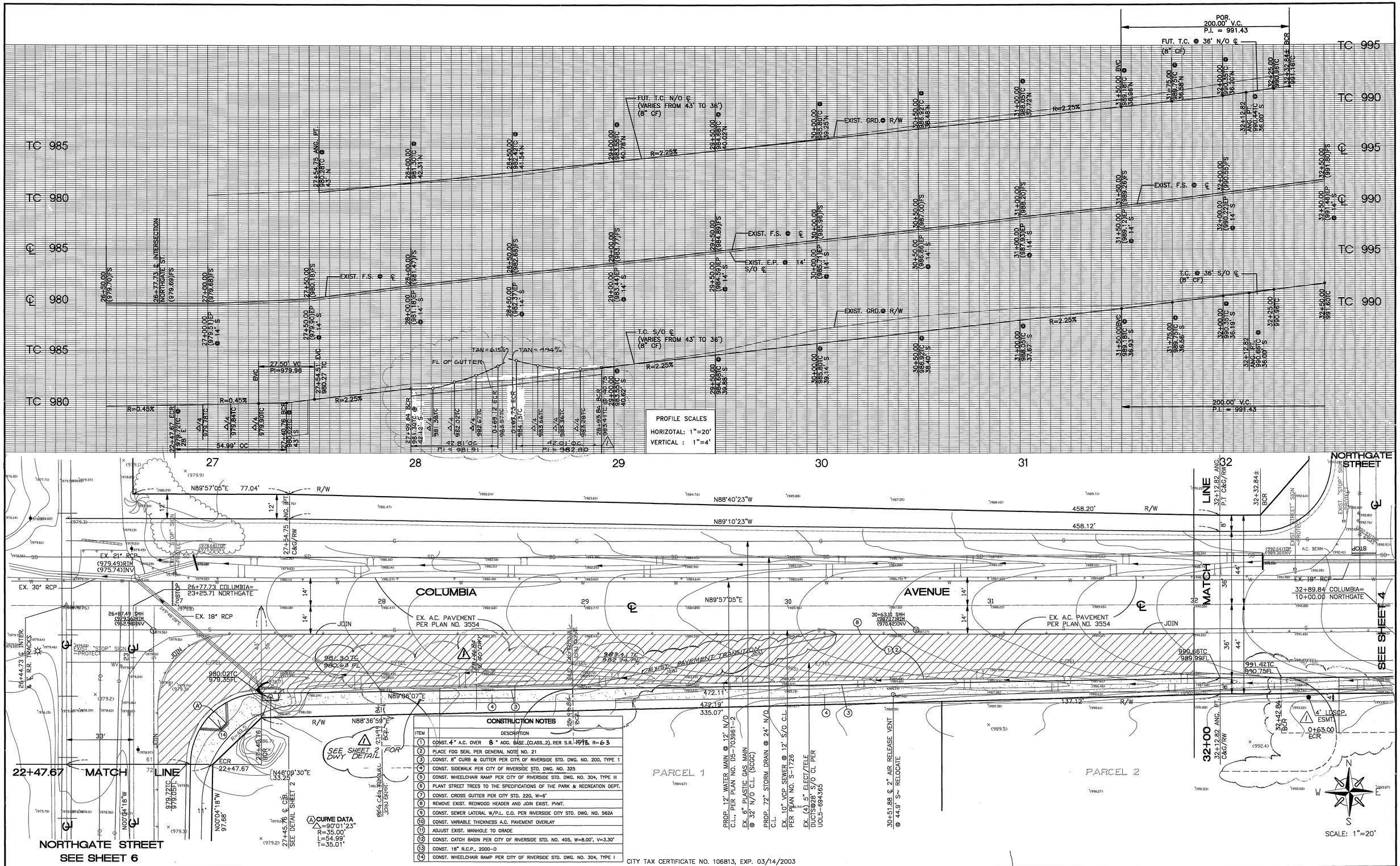
COLUMBIA AVENUE
SOUTH SIDE: FROM NORTHGATE E'LY TO GAGE CANAL
P.M. NO. 30585

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

ACCOUNT NO.
R-3684
SHEET 2 OF 6

INDEXED 3-11-03

01-3682.DWG / 01-09-03



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8	REMOVE EXIST. REDWOOD HEADER AND JOIN EXIST. PVMT.
9	CONST. SEWER LATERAL W/P.L. C.O. PER RIVERSIDE CITY STD. DWG. NO. 562A
10	CONST. VARIABLE THICKNESS A.C. PAVEMENT OVERLAY
11	ADJUST EXIST. MANHOLE TO GRADE
12	CONST. CATCH BASIN PER CITY OF RIVERSIDE STD. NO. 405, W=8.00', V=3.30'
13	CONST. 18" R.C.P., 2000-D
14	CONST. WHEELCHAIR RAMP PER CITY OF RIVERSIDE STD. DWG. NO. 304, TYPE I

CITY TAX CERTIFICATE NO. 106813, EXP. 03/14/2003

PACIFIC BELL TELEPHONE
APPROVED: 1/14/03 DATE

CITY OF RIVERSIDE WATER SYSTEM
APPROVED 1/13/03 DATE

APPROVED BY:
UTILITIES ENGINEER-ELECTRIC 1-13-03 DATE

BENCH MARK J8-H3

LEAD & TACK IN TOP OF CONC. OF CATCH BASIN. LOC. IN THE N/W COR OF CATCH BASIN IN THE S/W COR. OF PALMYRITA AVE. & NORTHGATE S'LY. OF C.L. OF P.I.

ELEVATION: 981.648

REGISTERED PROFESSIONAL ENGINEER ROBERT J. BELL No. 37888 Exp. 3-31-05 CIVIL STATE OF CALIFORNIA

BB ENGINEERING
civil engineering · surveying · environmental planning
3198 N. ASHWOOD STREET
ORANGE, CA 92865
PHONE (714) 637-8100
FAX (714) 921-2223
ROBERT BELL 1-13-03
R.C.E. 37888 EXP. 3-31-05 DATE

MARK	REVISIONS	APPR.	DATE
1	ADDED DWYS - PHASE II	RVZ	2-11-04

DESIGNED BY C.H. DRAWN BY C.H. CHECKED BY R.B.

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	1/14/03	
PARK DEPARTMENT	1/13/03	
TRAFFIC DIVISION	2/24/03	
DEPUTY P.W. DIRECTOR	1/14/03	
STREET SERVICES		

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 3/3/03

STREET IMPROVEMENT PLAN AND PROFILE

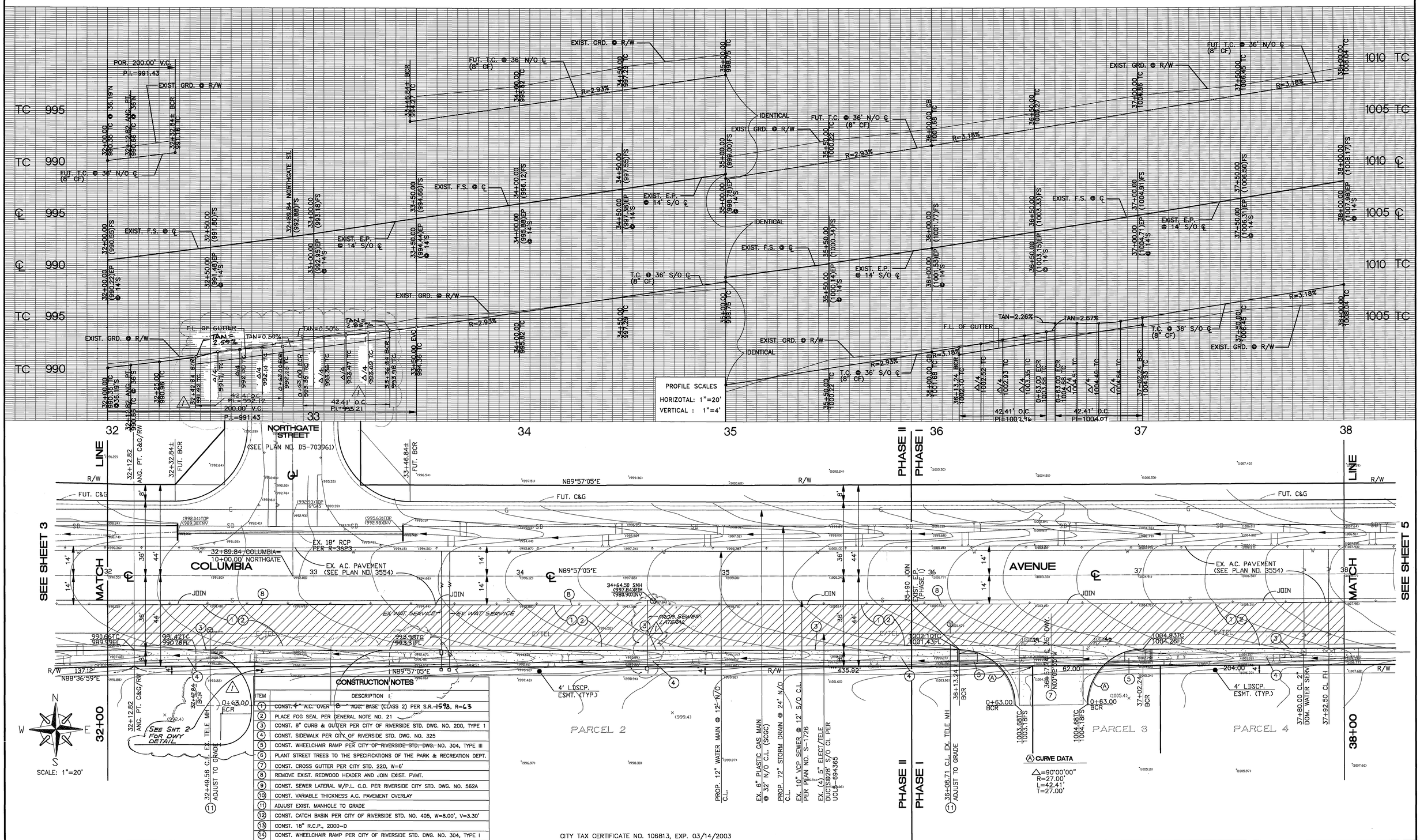
COLUMBIA AVENUE
SOUTH SIDE: FROM NORTHGATE ST. E'LY TO GAGE CANAL
P.M. NO. 30585

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

ACCOUNT NO.
R-3684
SHEET 3 OF 6

INDEXED 3-11-03 LH

01-3683.DWG / 10-31-02



CONSTRUCTION NOTES

ITEM	DESCRIPTION
1	CONST. 4" A.C. OVER 8" AGG. BASE (CLASS 2) PER S.R.-1698, R=63
2	PLACE FOG SEAL PER GENERAL NOTE NO. 21
3	CONST. 8" CURB & GUTTER PER CITY OF RIVERSIDE STD. DWG. NO. 200, TYPE 1
4	CONST. SIDEWALK PER CITY OF RIVERSIDE STD. DWG. NO. 325
5	CONST. WHEELCHAIR RAMP PER CITY OF RIVERSIDE STD. DWG. NO. 304, TYPE III
6	PLANT STREET TREES TO THE SPECIFICATIONS OF THE PARK & RECREATION DEPT.
7	CONST. CROSS GUTTER PER CITY STD. 220, W=6'
8	REMOVE EXIST. REDWOOD HEADER AND JOIN EXIST. PVMT.
9	CONST. SEWER LATERAL W/P.L. C.O. PER RIVERSIDE CITY STD. DWG. NO. 562A
10	CONST. VARIABLE THICKNESS A.C. PAVEMENT OVERLAY
11	ADJUST EXIST. MANHOLE TO GRADE
12	CONST. CATCH BASIN PER CITY OF RIVERSIDE STD. NO. 405, W=8.00', V=3.30'
13	CONST. 18" R.C.P., 2000-D
14	CONST. WHEELCHAIR RAMP PER CITY OF RIVERSIDE STD. DWG. NO. 304, TYPE I

CITY TAX CERTIFICATE NO. 106813, EXP. 03/14/2003

CURVE DATA

Δ=90°00'00"
R=27.00'
L=42.41'
T=27.00'

PACIFIC BELL TELEPHONE
APPROVED: 1/14/03 DATE

CITY OF RIVERSIDE WATER SYSTEM
APPROVED 1/13/03 DATE

APPROVED BY: 1-13-03
UTILITIES ENGINEER-ELECTRIC DATE

BENCH MARK J8-H3

LEAD & TACK IN TOP OF CONC. OF CATCH BASIN. LOC. IN THE N/W COR OF CATCH BASIN IN THE S/W COR. OF PALMYRITA AVE. & NORTHGATE S'LY. OF C.L. OF P.I.

ELEVATION: 981.648

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FAX (714) 921-2223
ROBERT BELL 1-13-03
R.C.E. 37888 EXP. 3-31-05 DATE

MARK	REVISIONS	APPR.	DATE
1	ADDED DWY, SEWER LATERAL - PHASE II	RVZ	2-11-04

DESIGNED BY C.H. DRAWN BY C.H. CHECKED BY R.B.

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	2/10/03	
PARK DEPARTMENT	1/13/03	
TRAFFIC DIVISION	2/24/03	
DEPUTY P.W. DIRECTOR		
STREET SERVICES	1-14-03	

APPROVED BY PUBLIC WORKS DIRECTOR
DATE 3/3/03

STREET IMPROVEMENT PLAN AND PROFILE

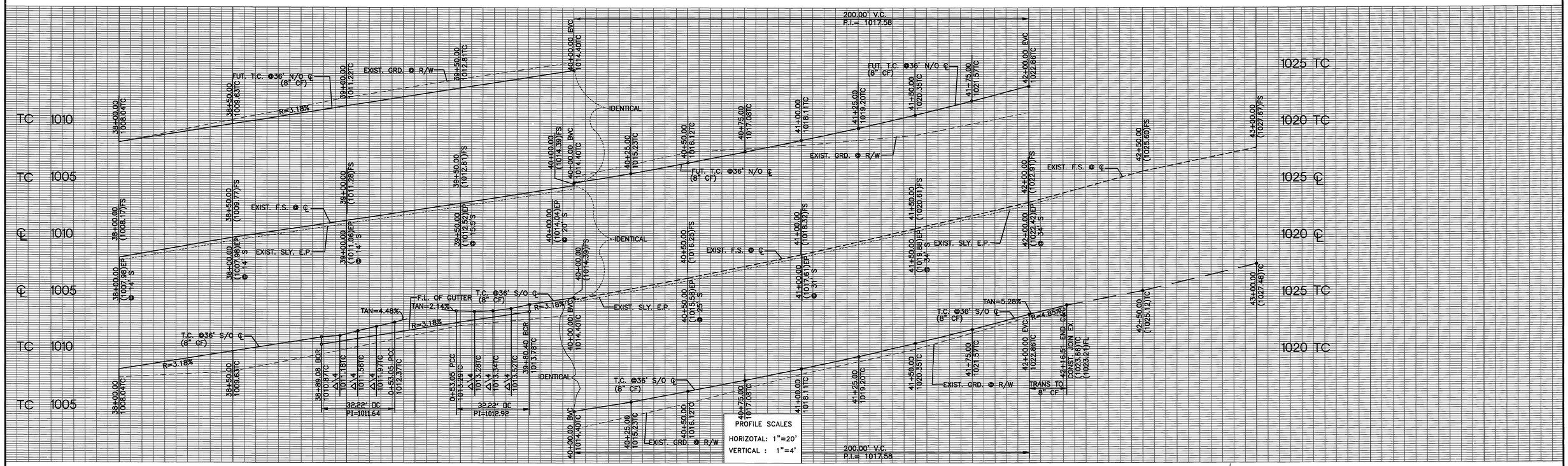
COLUMBIA AVENUE
SOUTH SIDE: FROM NORTHGATE ST. E'LY TO GAGE CANAL
P.M. NO. 30585

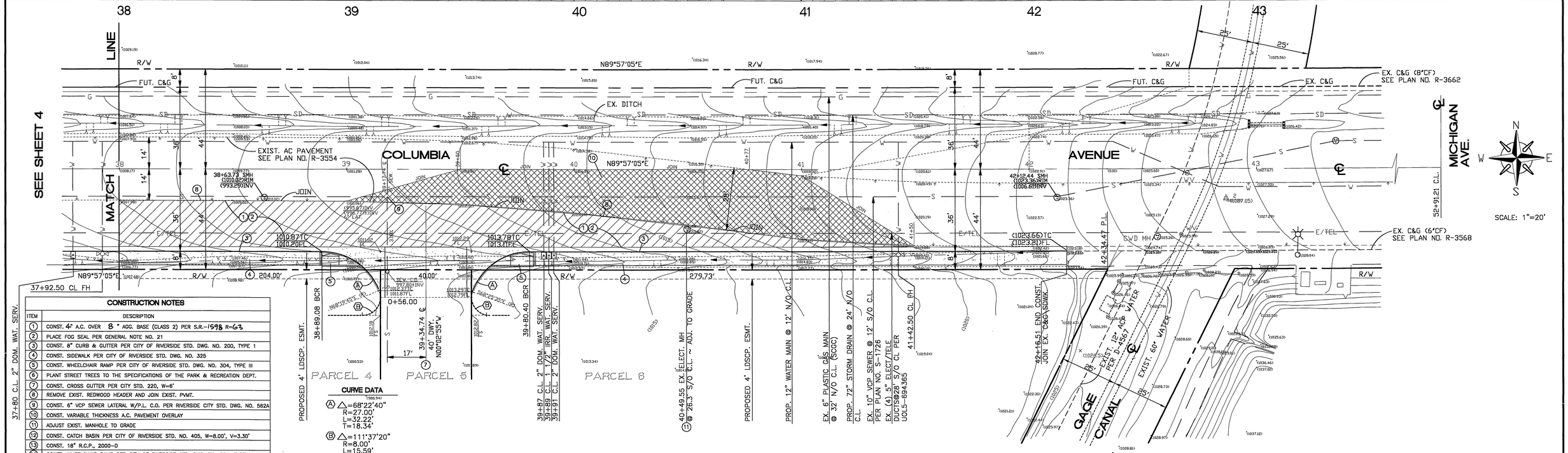
HORIZ. SCALE: 1"= 20' VERT. SCALE: 1"= 4'

ACCOUNT NO.
R-3684
SHEET 4 OF 6

INDEXED 3-11-03 HH

01-3684.DWG / 01-09-03





CITY TAX CERTIFICATE NO. 106813, EXP. 03/14/2003

CONSTRUCTION NOTES

ITEM	DESCRIPTION
1	CONST. 4" A.C. OVER 8 " AGG. BASE (CLASS 2) PER S.R.-1598 R=63
2	PLACE FOG SEAL PER GENERAL NOTE NO. 21
3	CONST. 8" CURB & GUTTER PER CITY OF RIVERSIDE STD. DWG. NO. 200, TYPE 1
4	CONST. SIDEWALK PER CITY OF RIVERSIDE STD. DWG. NO. 325
5	CONST. WHEELCHAIR RAMP PER CITY OF RIVERSIDE STD. DWG. NO. 304, TYPE III
6	PLANT STREET TREES TO THE SPECIFICATIONS OF THE PARK & RECREATION DEPT.
7	CONST. CROSS GUTTER PER CITY STD. 220, W=6'
8	REMOVE EXIST. REDWOOD HEADER AND JOIN EXIST. PVMT.
9	CONST. 6" VCP SEWER LATERAL W/P.L. C.O. PER RIVERSIDE CITY STD. DWG. NO. 562A
10	CONST. VARIABLE THICKNESS A.C. PAVEMENT OVERLAY
11	ADJUST EXIST. MANHOLE TO GRADE
12	CONST. CATCH BASIN PER CITY OF RIVERSIDE STD. NO. 405, W=8.00', V=3.30'
13	CONST. 18" R.C.P., 2000-D
14	CONST. WHEELCHAIR RAMP PER CITY OF RIVERSIDE STD. DWG. NO. 304, TYPE I

CURVE DATA

(A) △=68°22'40"
R=27.00'
L=32.22'
T=18.34'

(B) △=111°37'20"
R=8.00'
L=15.59'
T=11.78'

CITY OF RIVERSIDE WATER SYSTEM
APPROVED 1/13/03 DATE

PACIFIC BELL TELEPHONE
APPROVED: 1/14/03 DATE

APPROVED BY: 1-13-03
UTILITIES ENGINEER-ELECTRIC DATE

BENCH MARK J8-H3

LEAD & TACK IN TOP OF CONC. OF CATCH BASIN. LOC. IN THE N/W COR OF CATCH BASIN IN THE S/W COR. OF PALMYRITA AVE. & NORTHGATE S'LY. OF C.L. OF P.I.

ELEVATION: 981.648

REGISTERED PROFESSIONAL ENGINEER ROBERT J. BELL No. 37888 Exp. 3-31-05 CIVIL STATE OF CALIFORNIA

BB engineering
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3198 N. ASHWOOD STREET
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FAX (714) 921-2223
ROBERT BELL 1-13-03
R.C.E. 37888 EXP. 3-31-05 DATE

MARK	REVISIONS	APPR.	DATE

DESIGNED BY C.H. DRAWN BY C.H. CHECKED BY R.B.

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

	APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	1/10/03		
PARK DEPARTMENT	1/15/03		
TRAFFIC DIVISION	1/24/03		
DEPUTY P.W. DIRECTOR			
STREET SERVICES	1-14-3		

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 3/3/03

STREET IMPROVEMENT PLAN AND PROFILE

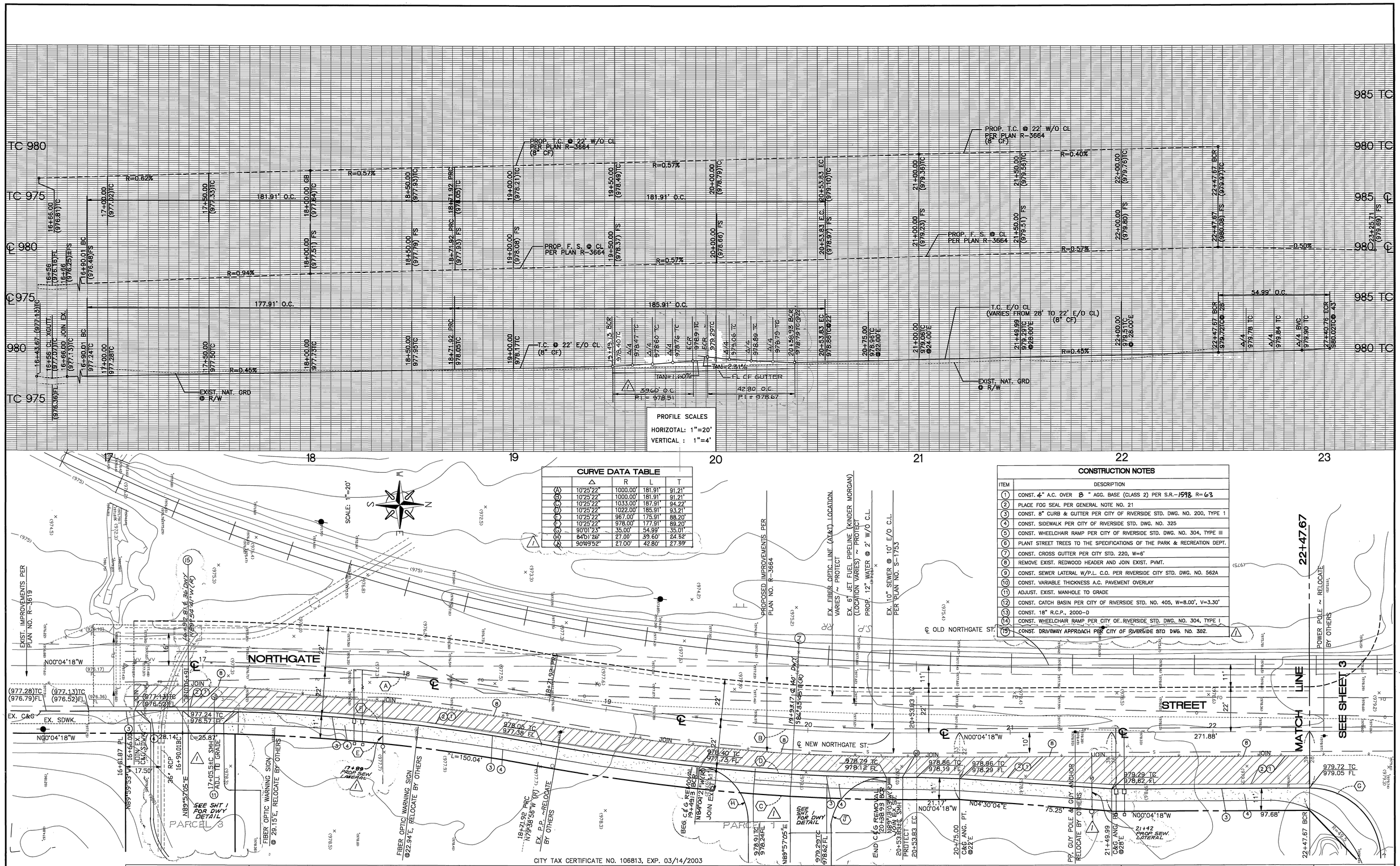
COLUMBIA AVENUE
SOUTH SIDE: FROM NORTHGATE ST. E'LY TO GAGE CANAL
P.M. NO. 30585

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

ACCOUNT NO.
R-3684
SHEET 5 OF 6

INDEXED 3-11-03 KH

01-3685.DWG/01-09-03



CURVE DATA TABLE

	Δ	R	L	T
(A)	10°25'22"	1000.00'	181.91'	91.21'
(B)	10°25'22"	1000.00'	181.91'	91.21'
(C)	10°25'22"	1033.00'	187.91'	94.22'
(D)	10°25'22"	1022.00'	185.91'	93.21'
(E)	10°25'22"	967.00'	175.91'	88.20'
(F)	10°25'22"	978.00'	177.91'	89.20'
(G)	90°01'23"	35.00'	54.99'	35.01'
(H)	84°01'26"	27.00'	39.60'	24.52'
(R)	90°49'52"	27.00'	42.80'	27.39'

CONSTRUCTION NOTES

ITEM	DESCRIPTION
1	CONST. 4" A.C. OVER 8 " AGG. BASE (CLASS 2) PER S.R.-1598, R=63
2	PLACE FOG SEAL PER GENERAL NOTE NO. 21
3	CONST. 8" CURB & GUTTER PER CITY OF RIVERSIDE STD. DWG. NO. 200, TYPE 1
4	CONST. SIDEWALK PER CITY OF RIVERSIDE STD. DWG. NO. 325
5	CONST. WHEELCHAIR RAMP PER CITY OF RIVERSIDE STD. DWG. NO. 304, TYPE III
6	PLANT STREET TREES TO THE SPECIFICATIONS OF THE PARK & RECREATION DEPT.
7	CONST. CROSS GUTTER PER CITY STD. 220, W=6'
8	REMOVE EXIST. REDWOOD HEADER AND JOIN EXIST. PVMT.
9	CONST. SEWER LATERAL W/P.L. C.O. PER RIVERSIDE CITY STD. DWG. NO. 562A
10	CONST. VARIABLE THICKNESS A.C. PAVEMENT OVERLAY
11	ADJUST. EXIST. MANHOLE TO GRADE
12	CONST. CATCH BASIN PER CITY OF RIVERSIDE STD. NO. 405, W=8.00', V=3.30'
13	CONST. 18" R.C.P., 2000-D
14	CONST. WHEELCHAIR RAMP PER CITY OF RIVERSIDE STD. DWG. NO. 304, TYPE I
15	CONST. DRIVEWAY APPROACH PER CITY OF RIVERSIDE STD. DWG. NO. 302.

CITY TAX CERTIFICATE NO. 106813, EXP. 03/14/2003

PACIFIC BELL TELEPHONE
APPROVED: 1/14/03 DATE

CITY OF RIVERSIDE WATER SYSTEM
APPROVED 1/13/03 DATE

APPROVED BY: 1-13-03
UTILITIES ENGINEER-ELECTRIC DATE

BENCH MARK J8-H3

LEAD & TACK IN TOP OF CONC. OF CATCH BASIN. LOC. IN THE N/W COR OF CATCH BASIN IN THE S/W COR. OF PALMYRITA AVE. & NORTHGATE S'LY. OF C.L. OF P.I.

ELEVATION: 981.648

REGISTERED PROFESSIONAL ENGINEER ROBERT J. BELL No. 37888 Exp. 3-31-05 CIVIL STATE OF CALIFORNIA

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ROBERT BELL 1-13-03
R.C.E. 37888 EXP. 3-31-05 DATE

MARK	REVISIONS	APPR.	DATE
1	ADDED DWY. CURVE DATA & CONST. NOTES & SEWER LATERAL	RR	2-11-04

DESIGNED BY C.H. DRAWN BY C.H. CHECKED BY R.B.

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

	APPROVED BY	DATE	BY
PRINCIPAL ENGINEER		3/28/2003	
PARK DEPARTMENT		1/13/03	
TRAFFIC DIVISION		2/24/03	
DEPUTY P.W. DIRECTOR			
STREET SERVICES		1-14-3	

APPROVED BY for PUBLIC WORKS DIRECTOR
DATE 3/3/03

STREET IMPROVEMENT PLAN AND PROFILE

NORTHGATE STREET
EAST SIDE: FROM COLUMBIA AVE. S'LY 680'±
P.M. NO. 30585
HORIZ. SCALE: 1"= 20' VERT. SCALE: 1"= 4'

ACCOUNT NO.
R-3684
SHEET 6 OF 6

INDEXED 3-11-03 [FH]

01-3686.DWG /01-09-03