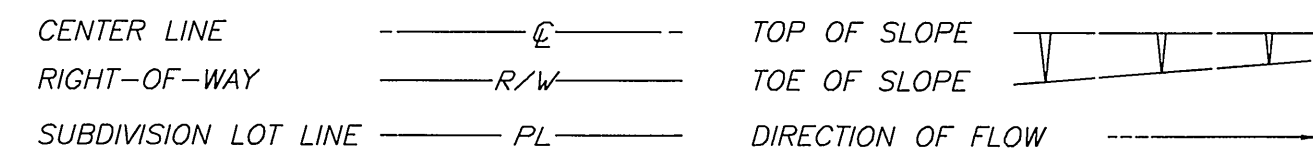


### CONSTRUCTION LEGEND



### GENERAL CONSTRUCTION NOTES

- 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.
- PRIME CONTRACTOR BIDDING THIS WORK SHALL HAVE A CLASS "A" LICENSE.
- ALL ELEVATIONS, SHOWN IN THE PLANVIEW, SHALL BE STAKED IN THE FIELD, EXCEPT FOR ELEVATIONS SHOWN IN PARENTHESIS WHICH DENOTE EXISTING GRADES.
- CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE STANDARD DWGS. AND STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2003 EDITION.
- CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER UNLESS OTHERWISE SHOWN ON THE PLAN.
- RIGHTS OF ENTRY HAVE BEEN OBTAINED FOR WORK SHOWN OUTSIDE OF CITY RIGHT OF WAY.
- TREES AND SHRUBS, AFFECTED BY THE PROPOSED SIDEWALK CONSTRUCTION, SHALL BE TRIMMED TO AT LEAST 8' VERTICALLY ABOVE THE SIDEWALK SURFACE AND TO AT LEAST 3' LATERALLY OF THE SIDEWALK, WHERE RIGHT-OF-WAY PERMITS.
- WATER METERS, GAS METERS AND ALL STREET PULL BOXES AFFECTED BY CONSTRUCTION, SHALL BE ADJUSTED TO THE PROPOSED SIDEWALK GRADE/GRADED SHOULDER GRADE.
- EXISTING SPRINKLERS AND IRRIGATION LINES, AFFECTED BY THE CONSTRUCTION OF THE PROPOSED SIDEWALK, SHALL BE RELOCATED TO THE BACK OF THE SIDEWALK OR MODIFIED TO COVER EXISTING IRRIGATED AREAS.
- THE ENGINEER WILL DETERMINE FINAL TREE LOCATION TO AVOID UTILITY CONFLICT.
- CONSTRUCT THE EQUESTRIAN TRAIL PER PLANS, STD. SPEC., AND SPECIAL PROVISIONS.

### SPECIFIC 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.

- A AUTOMATIC IRRIGATION CONTROLLER.
- AC CONSTRUCT 4" THICK OF AC DRIVEWAY OVER COMPACTED SOIL.
- AC-01 CONSTRUCT 0.1" MINIMUM AC OVERLAY.
- ADJ-MH ADJUST SEWER OR STORM DRAIN MAINHOLE COVER TO THE FINISHED GRADE.
- ADJ-WGV ADJUST WATER GATE VALVE COVER TO THE FINISHED GRADE.
- C-S1 CONSTRUCT 0.3' AC OVER 0.56' BASE (PER S.R. NO. 1472, R=32, TI=6).
- C-S2 CONSTRUCT 0.55' FULL DEPTH AC OVER THE COMPACTED SOIL.
- DG CONSTRUCT 6" THICK CLASS II CRUSHED AGGREGATE BASE DRIVEWAY.
- E POWER POLE/ELECTRICAL VAULT WILL BE RELOCATED BY THE CITY'S UTILITY DEP.
- ET CONSTRUCT 10'-WIDE EQUESTRIAN TRAIL.
- G GAS LINE/ETS WILL BE ADJUSTED BY THE GAS COMPANY.
- G1 COLD MILL EXIST. AC TO 0.1' BELOW PAVEMENT, "DAY-LIGHTING" IN 5' OR 10' (TYPE 1 COLD MILLING).
- G2 COLD MILL 10' WIDE OF EXIST. AC TO 0.1' BELOW PAVEMENT. (TYPE 2 COLD MILLING).
- GRB-CF GRIND CURB FACE TO 0' HIGH AT WHEELCHAIR RAMP.
- PCC-HD CONSTRUCT PCC HEADER PER PARK AND RECREATION DEPARTMENT DETAIL NO. 10.
- PIP PROTECT IN PLACE.
- PVC-DRY CONSTRUCT PARKWAY DRAIN PER AMERICAN PUBLIC WORKS ASSOCIATION STD. PLAN NO. NO. 151-1.
- PVC-F CONSTRUCT PVC FENCE PER PARK AND RECREATION DEPARTMENT DETAIL NO. 9.
- R-I REMOVE EXISTING TREE. CLASS I: 6" TO 18"; CLASS II: OVER 18" TO 36"; OR CLASS III: OVER 36". STREET TREE REMOVAL PERMIT REQUIRED.
- REL RELOCATE STREET SIGN.
- R&R-F REMOVE AND REPLACE CHAIN LINK FENCE, WOOD FENCE, WROUGHT IRON FENCE, OR WROUGHT IRON AND BLOCK WALL FENCE TO 0.5' OUTSIDE R/W OR AS SHOWN.
- T-II TRANSPLANT EXISTING PALM TREE. CLASS I: 6" TO 18"; CLASS II: OVER 18" TO 36"; OR CLASS III: OVER 36". STREET TREE RELOCATION PERMIT REQUIRED.
- W 3/4" WATER METER AND SERVICE LATERAL TO BE INSTALLED BY PUBLIC UTILITIES DEPT., WATER DIVISION.
- W1 WATER METER WILL BE ADJUSTED BY THE CONTRACTOR.
- WCR-I CONSTRUCT WHEEL CHAIR RAMP.

# RIVERSIDE CITY OF RIVERSIDE CALIFORNIA

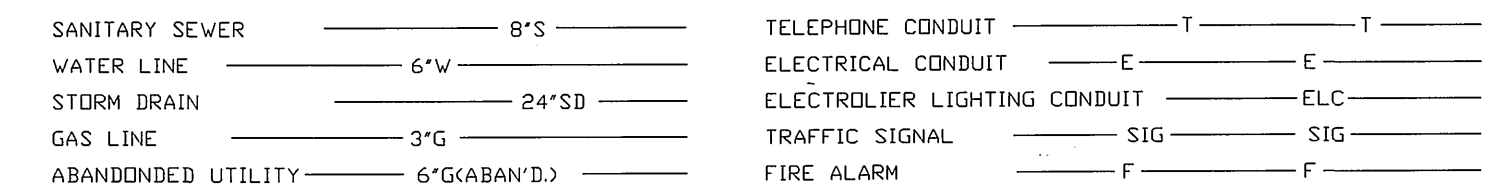
## PUBLIC WORKS DEPARTMENT

# MITCHELL AVENUE IMPROVEMENTS

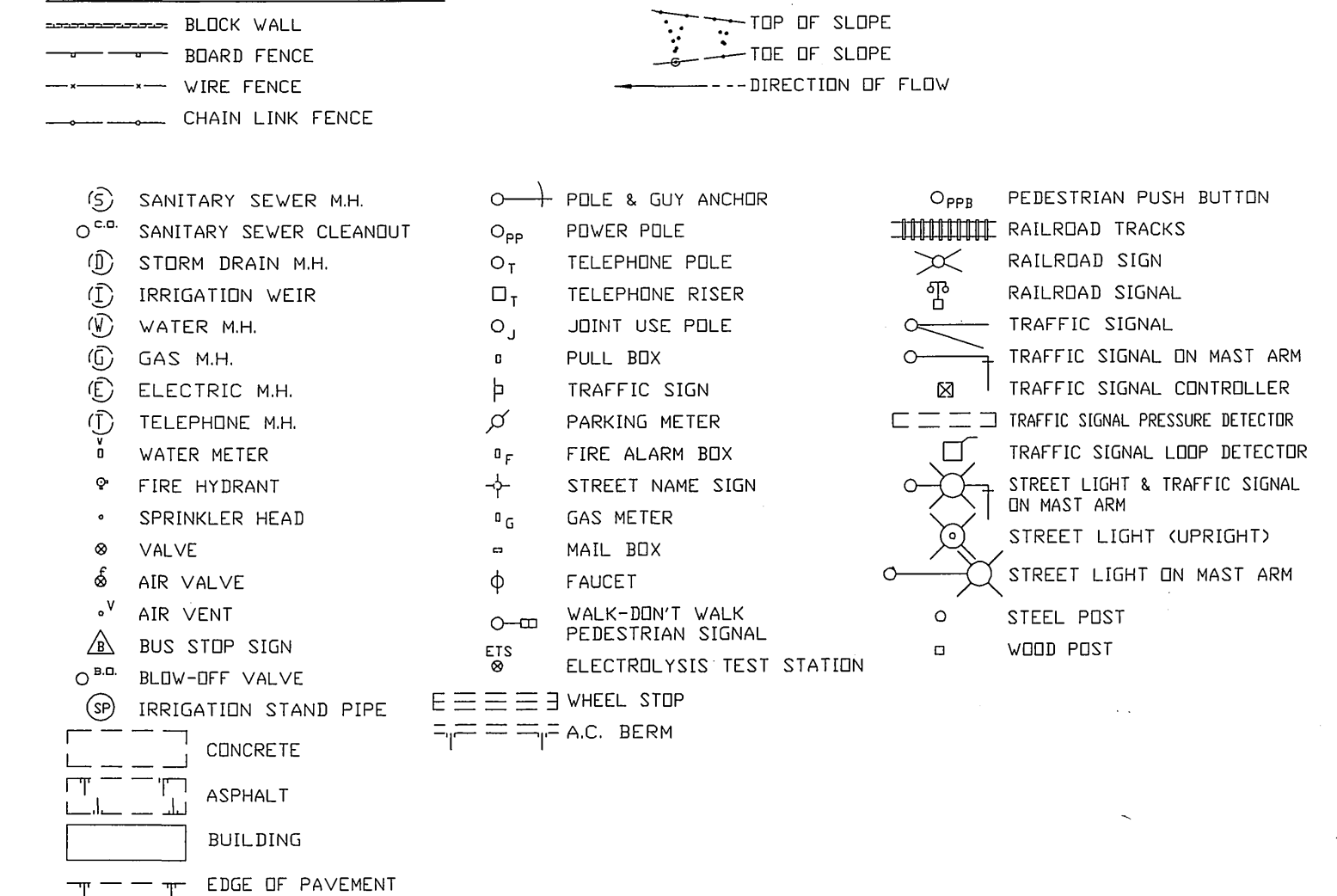
## (FROM CAMPBELL AVE. TO ARLINGTON AVE.)

### EXISTING UNDERGROUND & TOPOGRAPHY LEGEND

#### EXISTING UNDERGROUND UTILITIES

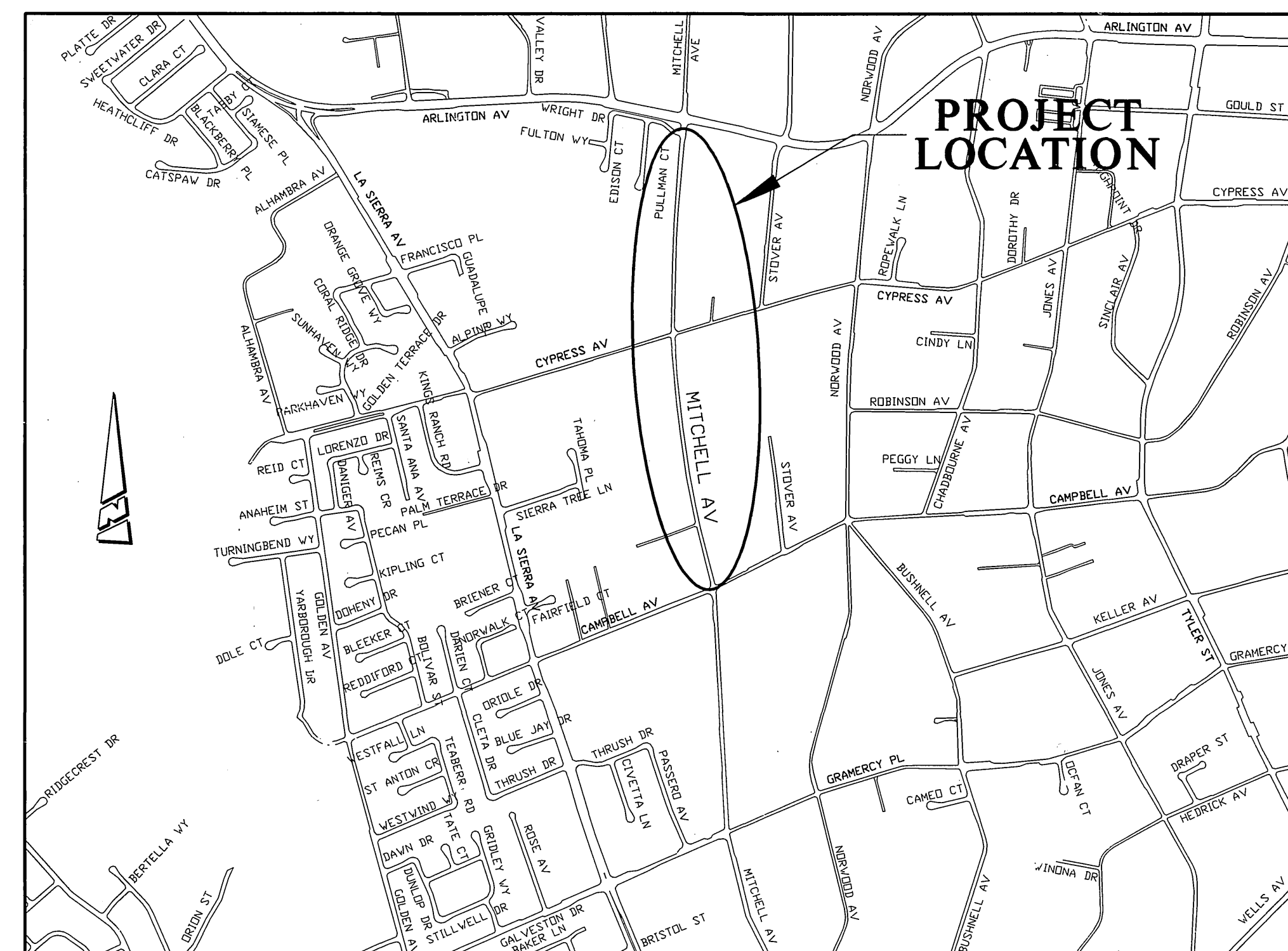


#### EXISTING TOPOGRAPHY



### GENERAL NOTES FOR PUBLIC LANDSCAPES:

- ALL RELATED WORK SHALL CONFORM TO THE CITY OF RIVERSIDE PARK AND RECREATION DEPARTMENT STANDARDS AND SPECIFICATIONS FOR PLANTING AND IRRIGATION WORK. (SPECIFICATIONS SECTION 02210, 02441, 02480, AND 02481).
- WHEN CALLING FOR INSPECTIONS CONTACT THE ENGINEER A MINIMUM OF 48 HOURS (TWO WORKING DAYS) IN ADVANCE AT (909) 826-5889 TO SCHEDULE AN INSPECTION. A FIELD NOTICE WILL BE ISSUED AS WRITTEN APPROVAL FOR EACH STAGE OF INSPECTION. A VERBAL APPROVAL WILL NOT BE ACCEPTABLE. INSPECTORS ARE REQUIRED PER THE STANDARD SPECIFICATION, AND INCLUDE BUT ARE NOT NECESSARILY LIMITED TO THE FOLLOWING:
  - AFTER COMPLETION OF FINAL GRADING OF THE PARKWAY AREA AND WHEN ALL UTILITY SERVICES AND SEWER LATERALS HAVE BEEN MARKED, BUT PRIOR TO INITIATING ANY LANDSCAPE WORK WITHIN THE PUBLIC RIGHT OF WAY;
  - AT TIME OF INSTALLATION OF IRRIGATION SYSTEMS AND CONSTANT PRESSURE MAINLINES, BUT PRIOR TO BACKFILL OF TRENCHES FOR SAME (NOTE: MAINLINES MUST BE PRESSURE TESTED IN THE PRESENCE OF THE PARK PROJECTS INSPECTOR);
  - AT TIME OF INSTALLATION OF IRRIGATION VALVES, LATERALS AND HEADS;
  - FOR SPOTTING OF ALL TREES PRIOR TO DIGGING PLANTING PITS;
  - WHILE DIGGING PLANT PITS AND PLANTING/RELOCATING TREES;
  - AFTER PLANTING AND ALL OTHER INDICATED OR SPECIFIED WORK HAS BEEN COMPLETED, FOR START OF MAINTENANCE;
  - AT SUBSTANTIAL COMPLETION OF THE PROJECT FOR CITY'S ACCEPTANCE TO START THE REQUIRED MAINTENANCE PERIOD;
  - AT THE END OF THE MAINTENANCE PERIOD, THE CONTRACTOR SHALL CALL THE ENGINEER AT (909) 826-5889 FOR A FINAL ACCEPTANCE INSPECTION IN ORDER TO BE RELEASED FROM MAINTENANCE. CONTRACT BONDS WILL NOT BE RELEASED UNTIL AFTER RECEIPT OF WRITTEN NOTIFICATION FROM THE CITY THAT THE PROJECT HAS PASSED FINAL ACCEPTANCE INSPECTION AND THE CITY IS ASSUMING MAINTENANCE RESPONSIBILITIES.
- IN THE INTEREST OF PUBLIC SAFETY AND MAINTENANCE, THE ENGINEER SHALL HAVE THE AUTHORITY TO REVISE THE TREE QUANTITIES AND LOCATIONS SHOWN OF APPROVED PLANS BASED UPON FIELD CONDITIONS FOUND AT THE TIME OF INSTALLATION OF THE TREES.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ALL TREES FOR A MINIMUM PERIOD OF ONE YEAR (365 CALENDAR DAYS) UNTIL ACCEPTED BY THE PARK AND RECREATION DEPARTMENT FOR ONGOING MAINTENANCE.



### PROJECT LOCATION MAP

(NTS)



WCR CURB FACE GRINDING DETAIL

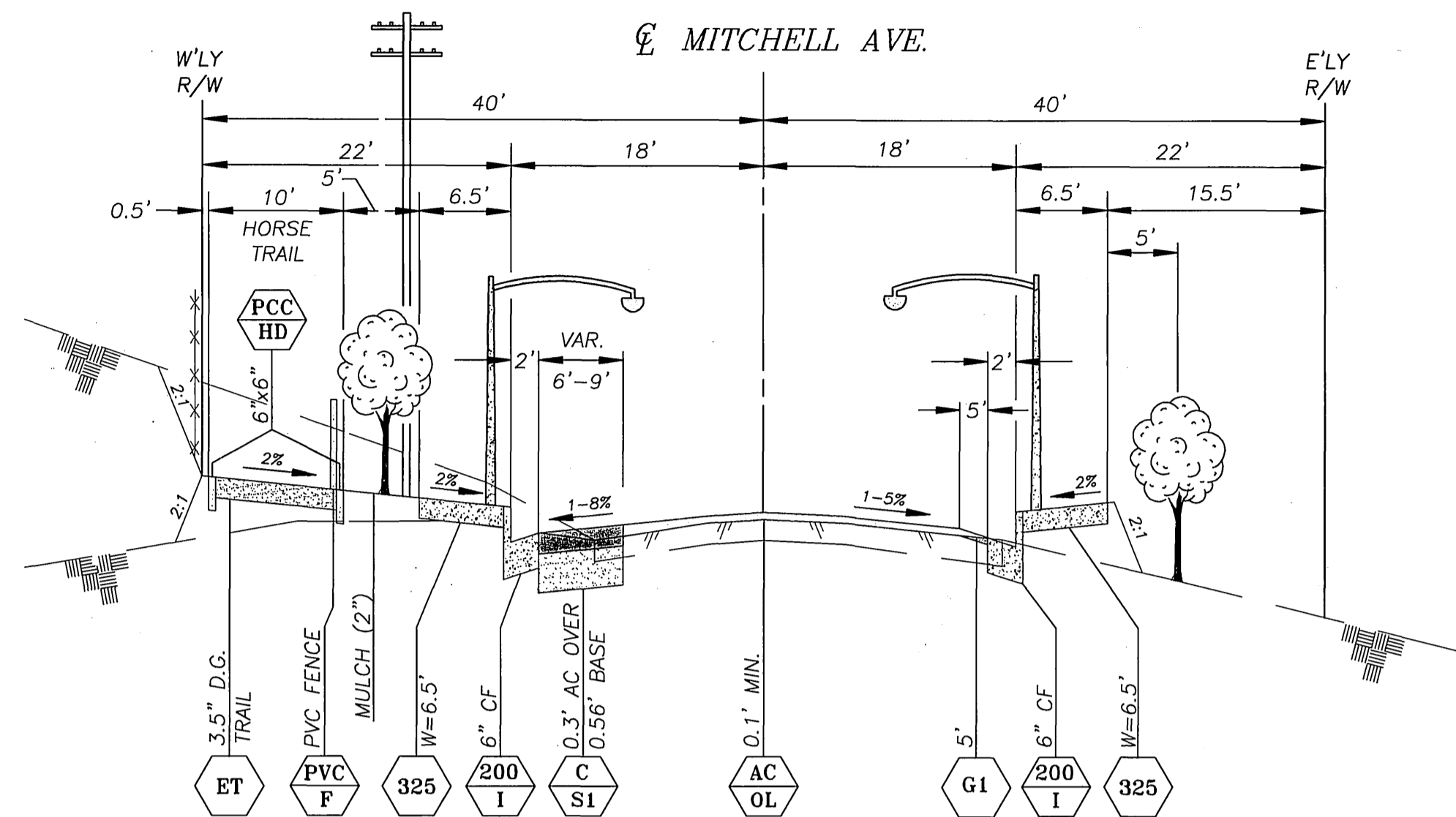
(NTS)

STORM DRAIN CONCRETE PLUG

(NTS)

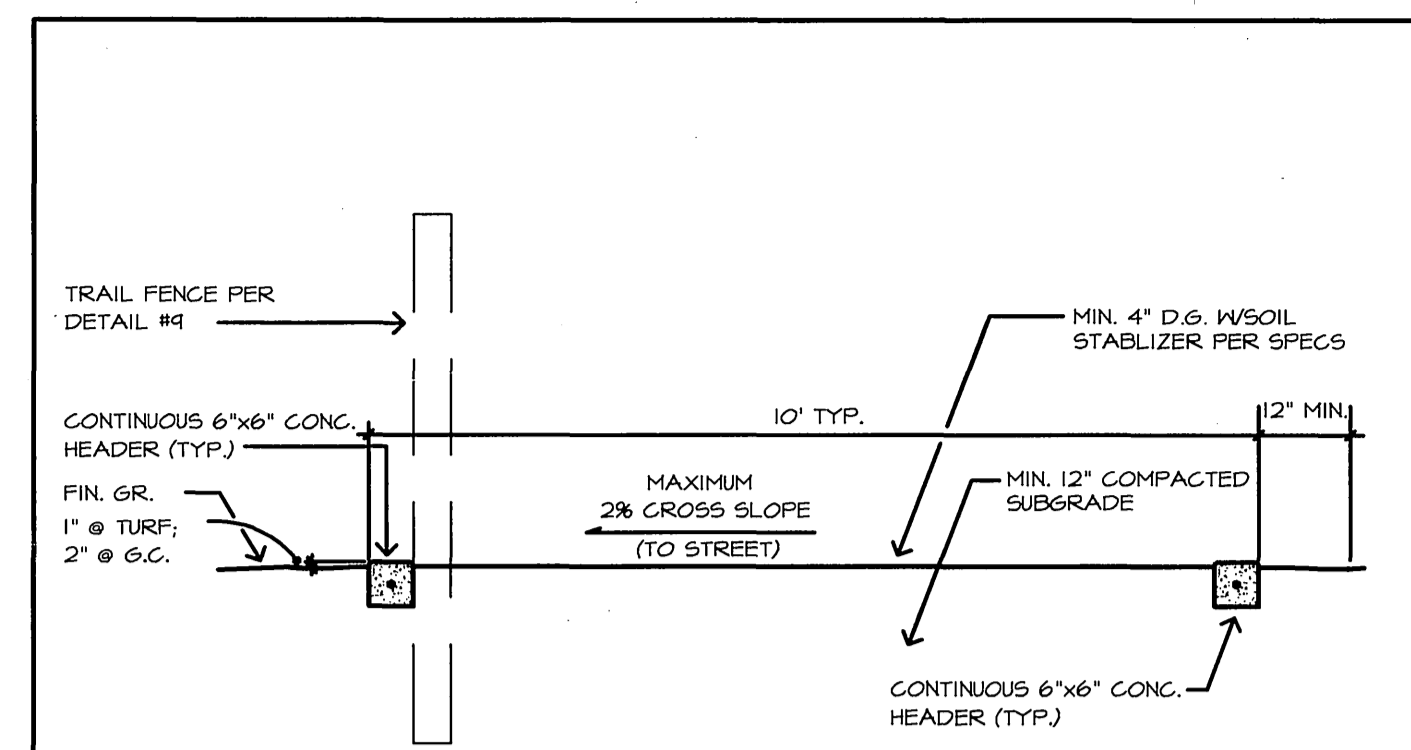
**IMPORTANT NOTICE**  
Section 4216/4217 of the Government Code requires a city alert identification number to be placed before a permit to excavate will be valid. For your city alert ID number call CALL TOLL FREE 48 HOURS BEFORE YOU DIG UNDERGROUND SERVICE ALERT 1-800-227-2600

PROJECT BENCHMARK: CITY OF RIVERSIDE BENCHMARK G1-K3 EL = 736.645	CITY OF RIVERSIDE, CALIFORNIA WATER DIVISION PUBLIC UTILITIES DEPARTMENT	CITY OF RIVERSIDE, CALIFORNIA ELECTRICAL DIVISION PUBLIC UTILITIES DEPARTMENT	ENGINEER IN RESPONSIBLE CHARGE MICHAEL KATUSIAN R.C.E. No. 36686 expires 6/30/2006	REGISTERED PROFESSIONAL ENGINEER MICHAEL KATUSIAN No. 36686 Exp. 6-30-2006 CIVIL STATE OF CALIFORNIA	CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT	MITCHELL AVENUE IMPROVEMENTS FROM CAMPBELL AVENUE TO ARLINGTON AVENUE	ACCT. NO.: 9538230214-440302X R-3605 SHEET 1 OF 11
	APPROVED BY M.W. McNeil DATE 8/31/04 FOR WATER CONNECTION ONLY SHT. 6	APPROVED BY [Signature] DATE 8-31-04 For electric connection only - Sht. 6	APPROVED BY [Signature] DATE 9/1/04	DESIGNED BY: FYL DRAWN BY: FYL CHECKED BY: MK	APPROVED BY: [Signature] DATE 9/1/04 CITY ENGINEER	* AS-BUILT 9-30-05 LHM	HORIZ. SCALE: 1" = 100' FILE: C:\COMMON\COMPLETE\R3605-1 PARK & REC. PC-4402-17PRP03-0012



**TYPICAL SECTION**

(NTS)

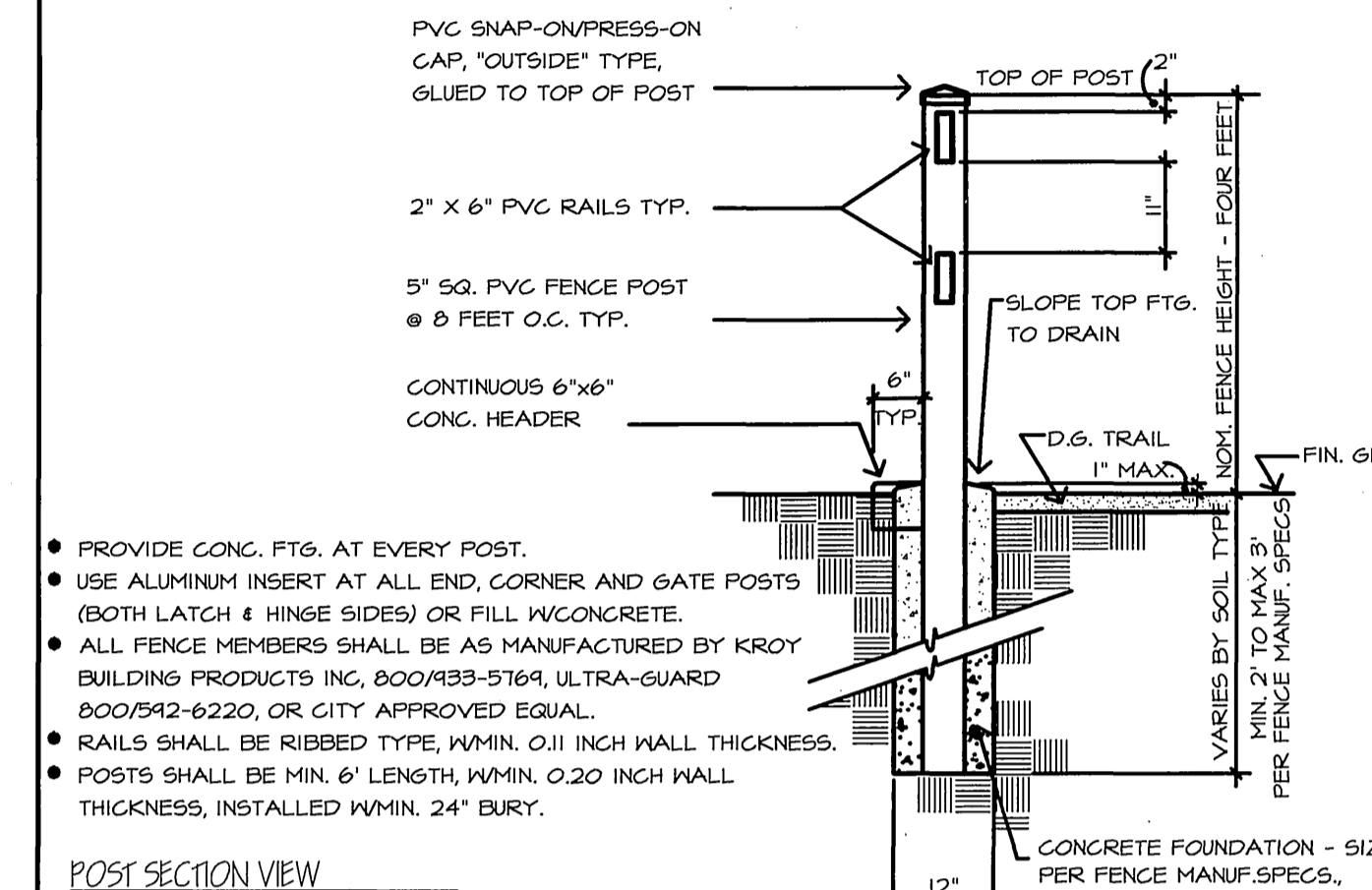
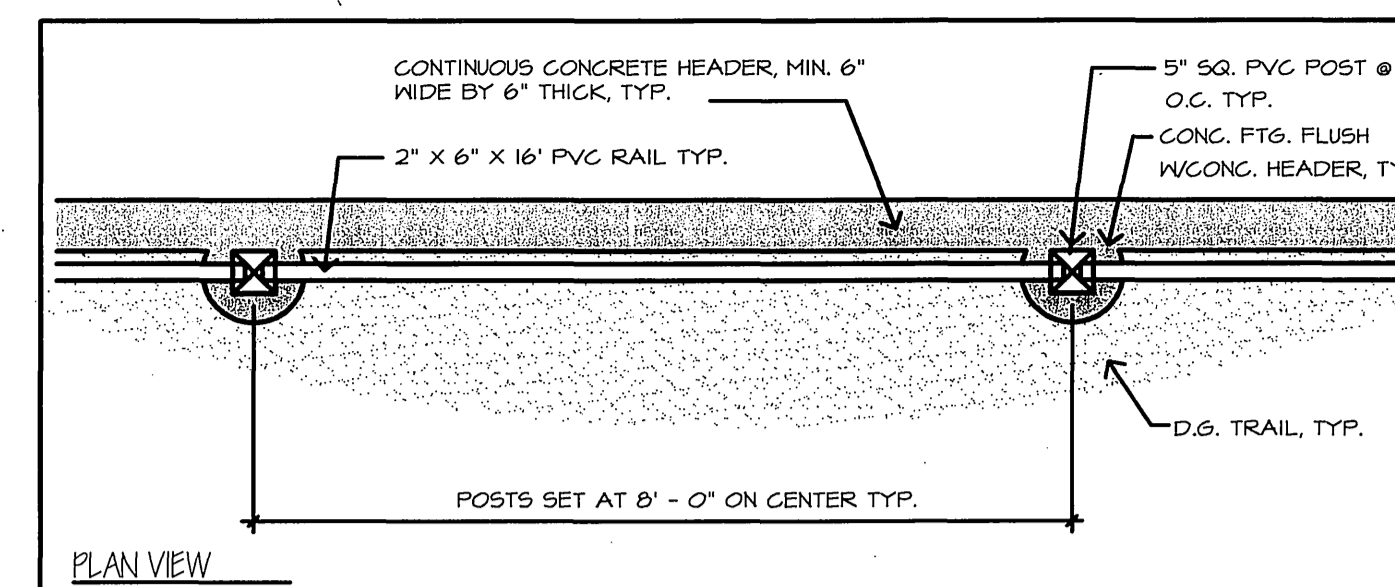


**NOTES:**

- GRAD: 5. TRAIL LONGITUDINAL GRADIENT SHALL COMPLY W/ ADA STANDARDS WHERE FEASIBLE.
- GRAD: 6. GRADE TRAIL TREAD FLUSH TO C.C. AT LOWER SIDE AND MAX. 1/2" BELOW AT UPPER SIDE.
- TRAIL SUBGRADE TO BE COMPACTED TO 90% RELATIVE COMPACTION FOR MINIMUM OF 12" BELOW D.G. SUBGRADE.
- FENCE: WHERE R.O.W. IS 66' OR LESS, AND TRAIL IS ALONG FRONT OR SIDE YARDS, PLACE FENCE AT EDGE OF TRAIL EASEMENT ADJACENT TO PRIVATE PROPERTY TO SERVE AS P/L FENCE.
- CONCRETE: CONCRETE MONOCURBS MAY BE OMITTED WHERE TRAIL ADJUS "NATIVE VEGETATION" (I.E. NON-HEDGE) AREAS.
- GRAD: 7. TRAIL LONGITUDINAL GRADIENT SHALL NOT EXCEED 10% WITHOUT PRIOR WRITTEN CITY APPROVAL.
- GRAD: 8. WHERE R.O.W. EXCEEDS 66' (±) REVERSE FRONTAGE LANDSCAPE AREAS PLACE TRAIL FENCE ON STREET SIDE OF TRAIL TREAD.
- WHERE TRAIL CROSSES DRIVEWAYS/ SIDEWALKS PROVIDE HEAVY BROOM FINISH CONCRETE.
- NATIVE SOILS MAY BE USED FOR D.G. WHERE MEETING "GREENBOOK" DEFINITION OF "D.G."
- D.G. TO BE MIXED WITH SOIL STABILIZER AS SPECIFIED PRIOR TO PLACEMENT. APPLICATION RATE TO BE FOR "HIGH TRAFFIC."
- TRAIL FENCE MAY BE OMITTED WHERE TRAIL LEAVES RIGHT OF WAY ONCE 25' AWAY FROM R.O.W. LINE.

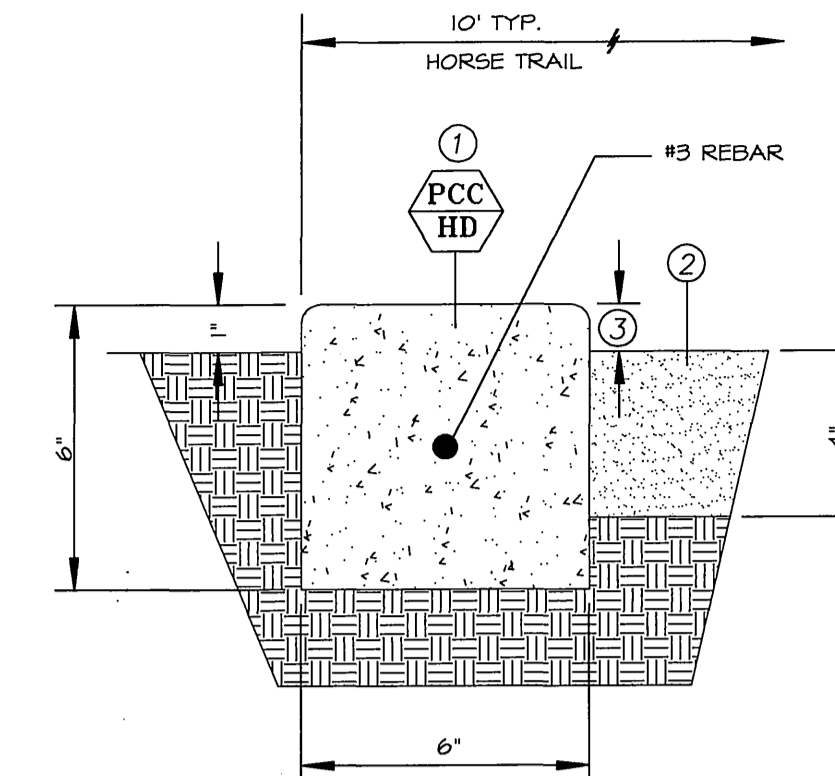
Park and Recreation Department  
CITY OF RIVERSIDE  
STANDARD TRAIL SECTION

Detail No.  
**1**



Park and Recreation Department  
CITY OF RIVERSIDE  
PVC TRAIL FENCE

Detail No.  
**9**



- 1. CONCRETE HEADER 2000 PSI NATURAL GREY SMOOTH TROWEL FINISH 1/4" RADIUS TO ALL EDGES
- 2. #3 REBAR CONTIGUOUS (CENTERED) LAP BARS @ 4" SPLICE & TIE
- 3. INSTALL 1/2" PRE-FORMED EXPANSION JOINTS AT 15' O.C. MAX. 4' AT BEGINNING AND END OF RADIUS
- 4. 3.5" THICK OF COMPACTED EMULSIFIED D.S. TRAIL OVER MIN. 12" COMPACTED SUBGRADE @ 90% RELATIVE COMPACTION.
- 5. 1/2" @ UPHILL SIDE OF TRAIL AND FLUSH @ DOWN HILL SIDE OF TRAIL.

Park and Recreation Department  
CITY OF RIVERSIDE  
CONCRETE HEADER

Detail No.  
**10**

**IRRIGATION LEGEND**

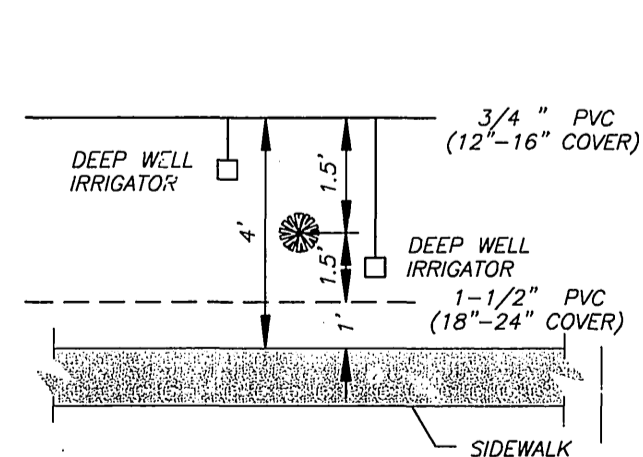
SYMBOL	DESCRIPTION	*DETAIL	REMARKS	SYMBOL	DESCRIPTION	*DETAIL	REMARKS	MIN. OP. PRESSURE	PRECIP. RATE
	CONTROLLER STATION G.P.M. DEMAND SIZE PER PLAN (INCH)				FEBCO 825Y R.P. BACKFLOW PREVENTER W/WILKENS 500 YBSR PRESSURE REGULATOR/STRAINER	4	SIZE PER PLAN		
	GRISWOLD 2000 AUTOMATIC REMOTE CONTROL VALVE	5	SIZE PER PLAN		TORO FB-50-PC FLOOD BUBBLER 0.50 GPM			50 PSI	
	RAINBIRD ESP-MC IRRIGATION CONTROLLER (NO. OF STATIONS PER PLAN)	6	2 REQUIRED		PRESSURE MAINLINE PVC SCH 40		SIZE PER PLAN		
	NIBCO T-580 BALL VALVE	3	LINE SIZED		INTERMITTENT PRESSURE LATERAL LINE PVC CL200		SIZE PER PLAN		
NOT SHOWN	UF DIRECT BURIAL CONTROL WIRE, SOLID COPPER		NOT SHOWN		PVC PIPE & WIRE SLEEVE SIZE PER PLAN OR 2X PIPE DIA.				

**IRRIGATION CONSTRUCTION LEGEND:**

- A** AUTOMATIC IRRIGATION CONTROLLER.
- W** 3/4" WATER METER AND SERVICE LATERAL TO BE INSTALLED BY PUBLIC UTILITIES DEPT., WATER DIVISION.
- 1** INSTALL 2" DIA. P.V.C. SCH. 40 SLEEVING, EXTENDING 1' INTO PLANTING AREA WITH A MINIMUM OF 24" COVER MEASURED FROM BOTTOM OF THE SUBGRADE AND TERMINATING IN BROOKS #3 PULL BOX OR CITY APPROVED EQUAL WITH TRAFFIC COVER, AT EACH END, FOR IRRIGATION CONTROL WIRES.
- 2** INSTALL 3" DIA. P.V.C. SCH. 40 SLEEVING, EXTENDING 1' INTO PLANTING AREA WITH A MINIMUM OF 24" COVER MEASURED 24" FROM BOTTOM OF SUBGRADE, FOR THE 1-1/2" IRRIGATION SUPPLY LINE.
- 3** INSTALL 2" DIA. P.V.C. SCH. 40 SLEEVING, EXTENDING 1' INTO PLANTING AREA WITH A MINIMUM OF 24" COVER MEASURED 24" FROM BOTTOM OF SUBGRADE, FOR THE 3/4" IRRIGATION LATERAL LINE.

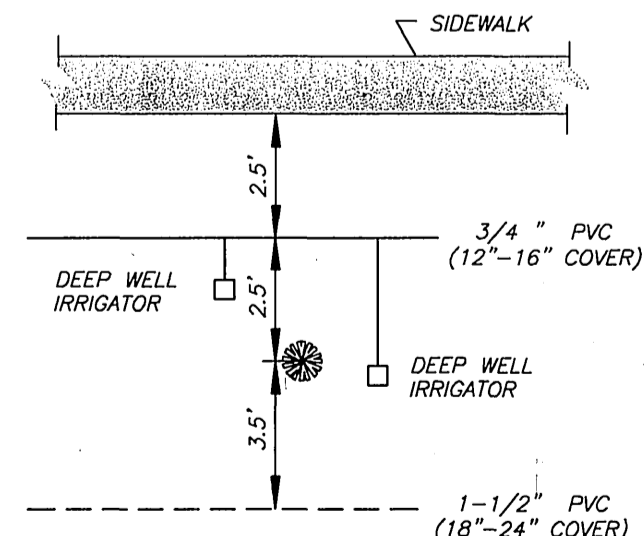
**IRRIGATION CONSTRUCTION NOTES:**

- 1. ALL IRRIGATION LINES TO BE INSTALLED UNDER HARDSCAPE AREAS SHALL BE INSTALLED IN SCH. 40 P.V.C. SLEEVES, SLEEVE SIZE SHALL BE TWICE THE DIAMETER OF THE IRRIGATION PIPE SIZE (MIN.).
- 2. ALL IRRIGATION CONTROL WIRES TO BE INSTALLED UNDER HARDSCAPE AREAS SHALL BE INSTALLED IN 2" SCH. 40 P.V.C. SLEEVES (MIN.).
- 3. ALL IRRIGATION VALVES, BALL VALVES, QUICK COUPLERS AND BOXES ARE TO BE LOCATED IN PLANTING AREAS.



**WESTERLY SIDE IRRIGATION DETAIL**

(NTS)

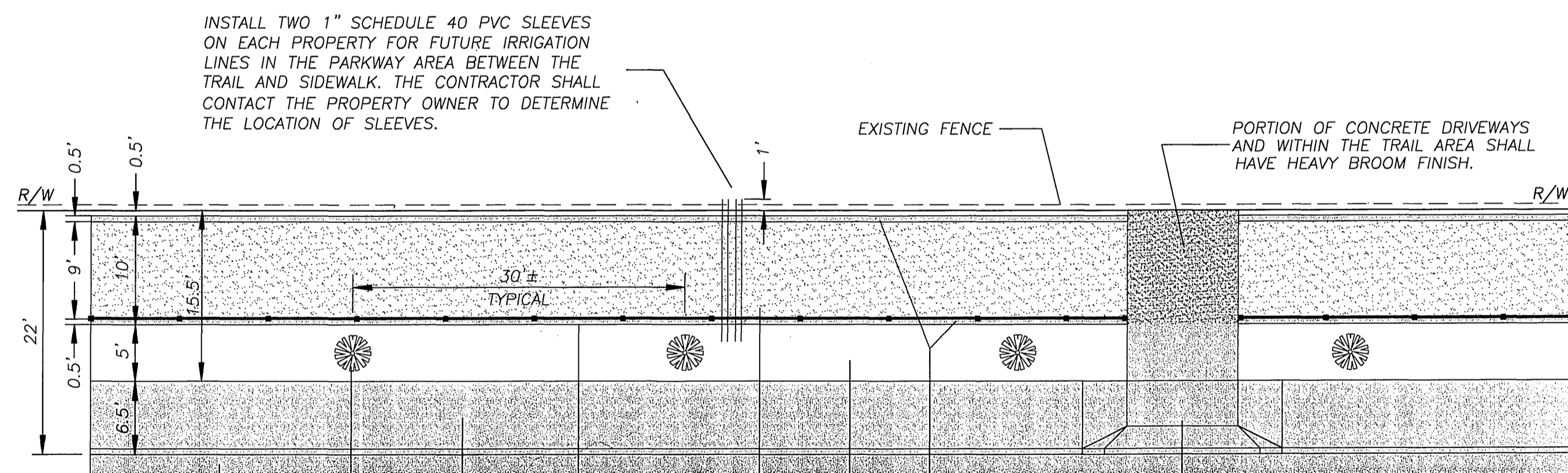


**EASTERLY SIDE IRRIGATION DETAIL**

(NTS)

**POINT OF CONNECTION ELECTRIC NOTES**

- 1. ALL FACILITIES INSTALLED BY THE CONTRACTOR SHALL BE INSPECTED AND APPROVED BY THE UTILITIES DEPT. CONSTRUCTION INSPECTOR (PH. 782-5429). ANY CHANGES SHALL BE APPROVED BY THE UTILITIES DEPT. PRIOR TO EXECUTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL PHASES OF CONSTRUCTION WITH THE UTILITIES DEPT. CONSTRUCTION INSPECTOR AND CONSTRUCTION SUPERINTENDENT (PH. 351-6173).
- 2. ALL IRRIGATION CONTROLLER FEED POINTS TO BE CONNECTED BY PUBLIC UTILITIES DEPT. AND ENERGIZED WHEN CLEARED BY UTILITIES DEPT. INSPECTOR.
- 3. ALL WIRE TO BE #12 CU. THW.
- 4. CONDUIT AND FITTINGS TO BE IN CONFORMANCE WITH UGS-100. BACKFILL TO BE TYPE AND COMPACTED AS SPECIFIED IN UGS-100.1.
- 5. PROVIDE RELEASE LETTER AUTHORIZING ENERGIZATION, SIGNED BY RESPONSIBLE PERSON IN CHARGE. OBTAIN FORM LETTER FROM UTILITY INSPECTOR.

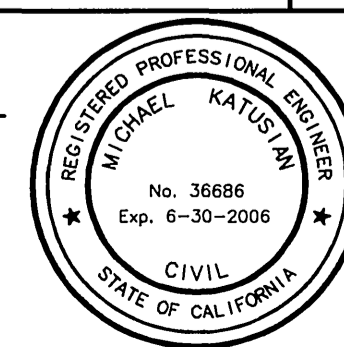


**EQUESTRIAN TRAIL DETAILS**

**(WESTERLY SIDE PLAN VIEW)**

(NTS)

ENGINEER IN RESPONSIBLE CHARGE  
*Michael Katusian*  
MICHAEL KATUSIAN  
R.C.E. No. 36898 expires 6/30/2006  
DATE 9/13/04



MARK	REVISIONS	APPR.	DATE

CITY OF RIVERSIDE, CALIFORNIA  
PUBLIC WORKS DEPARTMENT

APPROVED BY: *[Signature]* DATE: 9/13/04  
PRINCIPAL ENGINEER  
CONSTRUCTION ADM. *[Signature]*  
SURVEYOR *[Signature]*  
STREET SERVICES *[Signature]*  
TRAFFIC ENGINEER *[Signature]*  
PARK & REC. DEP. *[Signature]*

\*AS-BUILT 9-30-05 4th

MITCHELL AVENUE  
IMPROVEMENTS  
FROM CAMPBELL AVENUE  
TO ARLINGTON AVENUE

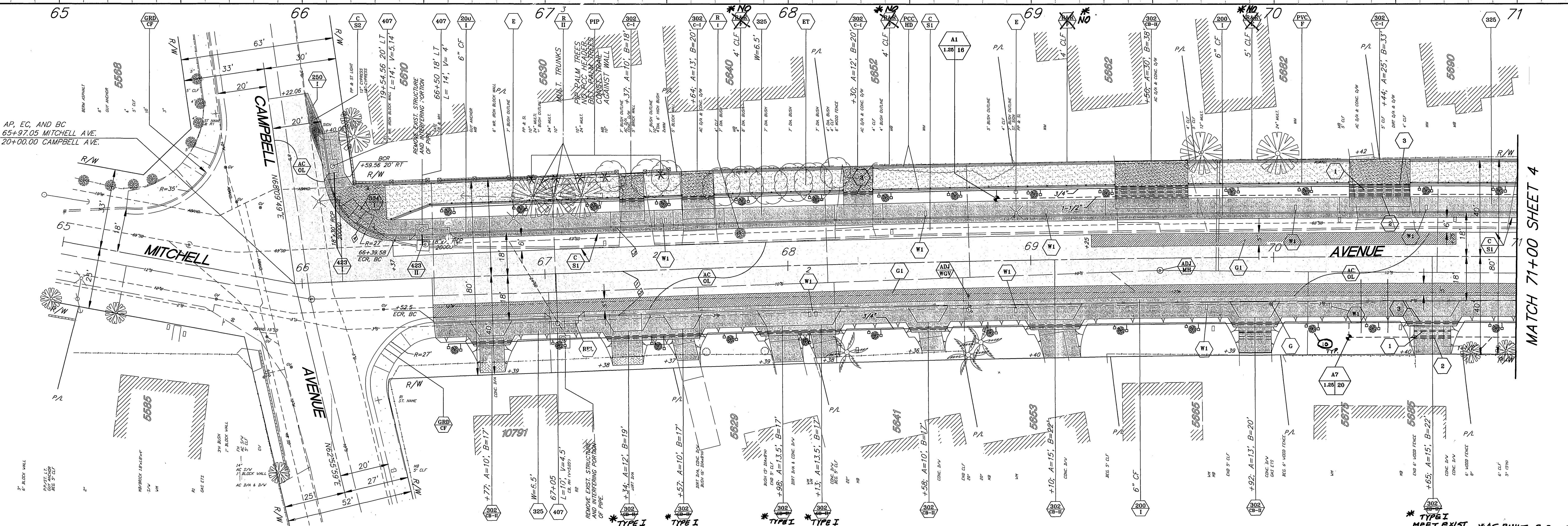
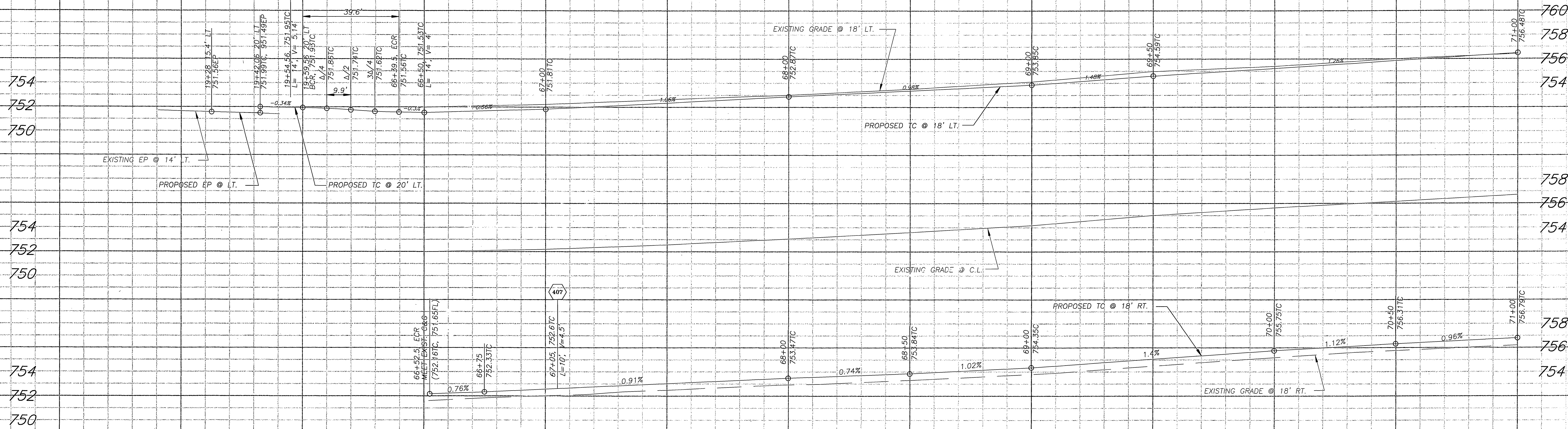
ACCT. NO.: 9538230214-4403020X

R-3605  
SHEET 2 OF 11

HORIZ. SCALE: 1" = -- VERT. SCALE: 1" = --

FILE: COMMON/COMPLETE/R3605-2  
PARK & REC: PC-4402-1/PRP03-0012

INDEXED 1-09-05 4th



AP, EC, AND BC  
65+97.05 MITCHELL AVE.  
20+00.00 CAMPBELL AVE.

MATCH 71+00 SHEET 4

Station	Curve	Radius (R)	Length (L)	Tangent (T)
65+00	1	39.60'	24.32'	27'
66+00	2	2002.70'	1005.89'	27'
67+00	3	2100.96'	1055.75'	27'
68+00	4	2002.84'	1006.00'	27'

**ENGINEER IN RESPONSIBLE CHARGE**  
*Michael Katusian*  
 MICHAEL KATUSIAN  
 R.C.E. No. 36686 expires 6/30/2006  
 DATE 9/13/01



MARK	REVISIONS	APPR	DATE

CITY OF RIVERSIDE, CALIFORNIA  
 PUBLIC WORKS DEPARTMENT

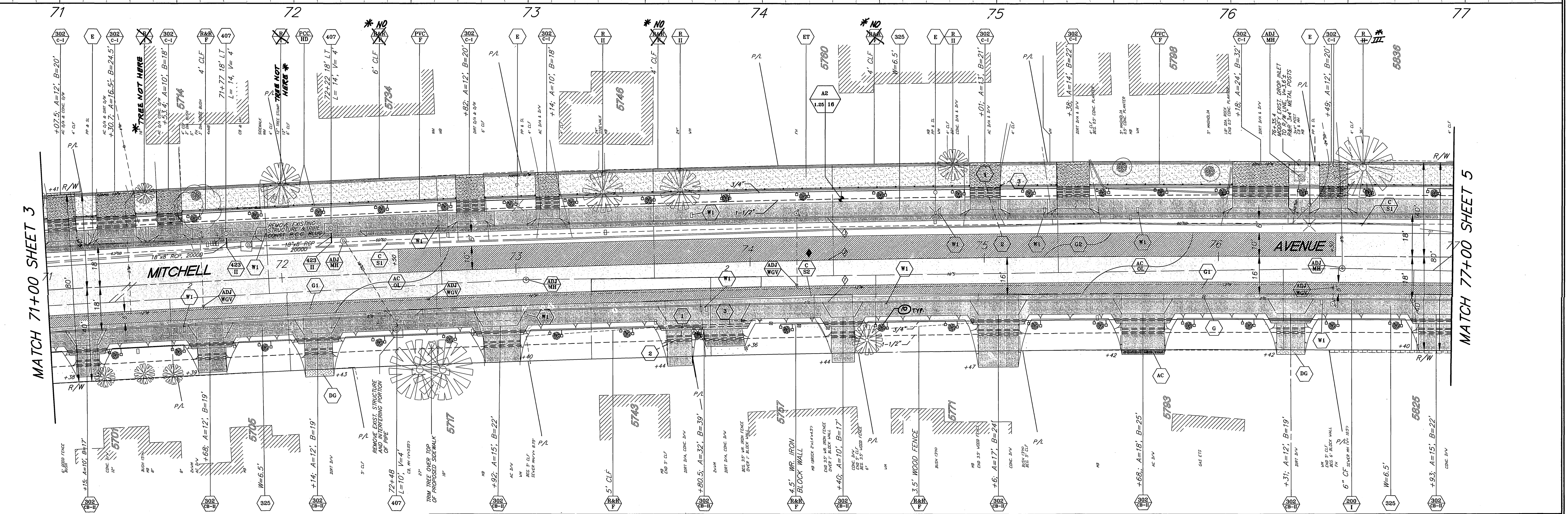
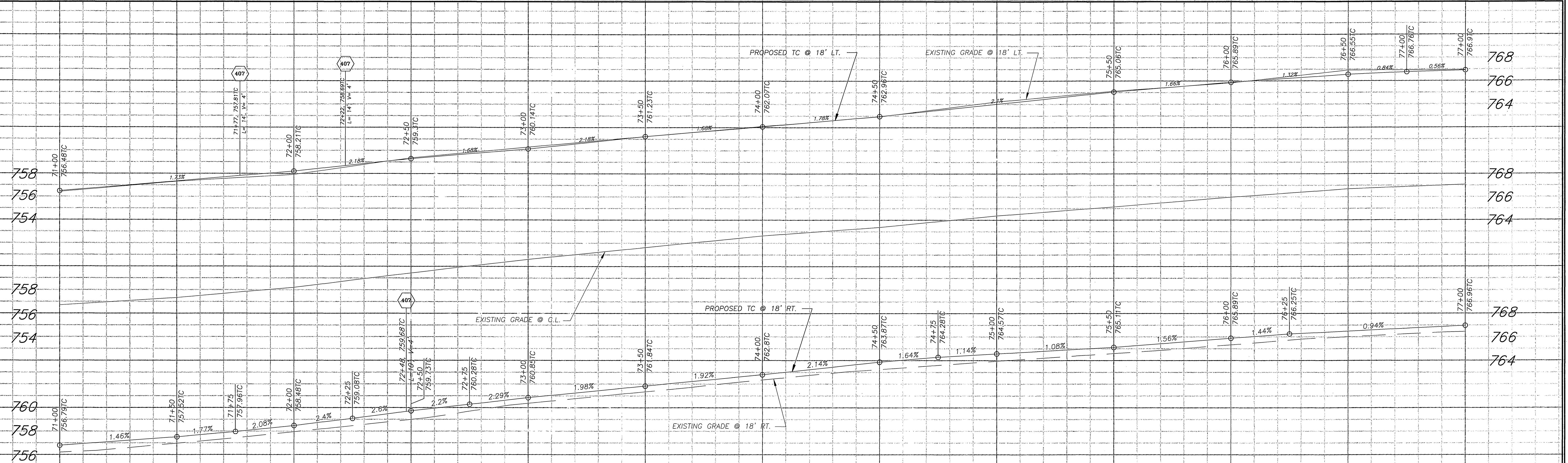
APPROVED BY: *[Signature]* DATE: 9/13/01  
 PRINCIPAL ENGINEER  
 CONSTRUCTION ADMIN.  
 SURVEYOR  
 STREET SERVICES  
 TRAFFIC ENGINEER  
 PARK & REC. DEP.

**MITCHELL AVENUE IMPROVEMENTS**

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

ACCT. NO.: 9538230214-440302XX  
**R-3605**  
 SHEET 3 OF 11  
 FILE: COMMON/COMPLETE/R3605-3  
 PARK & REC.: PC4402-1/PROP03-0012

INDEXED 1-04-05 LHM

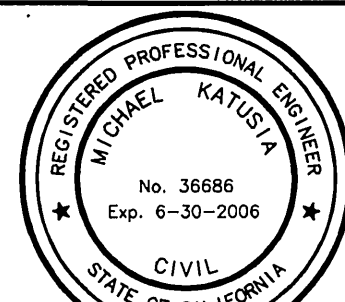


MATCH 71+00 SHEET 3

MATCH 77+00 SHEET 5

NO.	DESCRIPTION	DATE	BY	CHKD.
1	13'-22'-49"	8578.42'	2002.84'	1006.00'
2	14'-00'-23"	8594.42'	2100.96'	1055.75'
3	13'-19'-24"	8594.42'	2002.70'	1005.89'

**ENGINEER IN RESPONSIBLE CHARGE**  
*Michael Katusian*  
 MICHAEL KATUSIAN  
 "R.C.E. No. 36686 expires 6/30/2006"  
 DATE 9/2/04



MARK	REVISIONS	APPR.	DATE

CITY OF RIVERSIDE, CALIFORNIA  
 PUBLIC WORKS DEPARTMENT

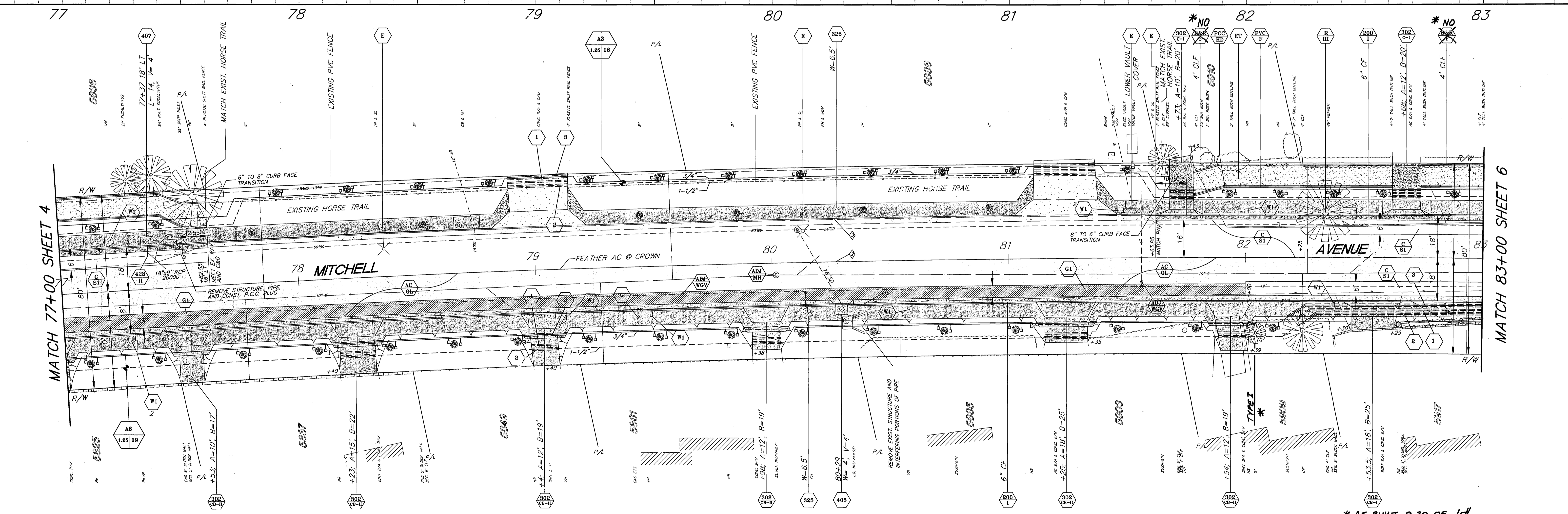
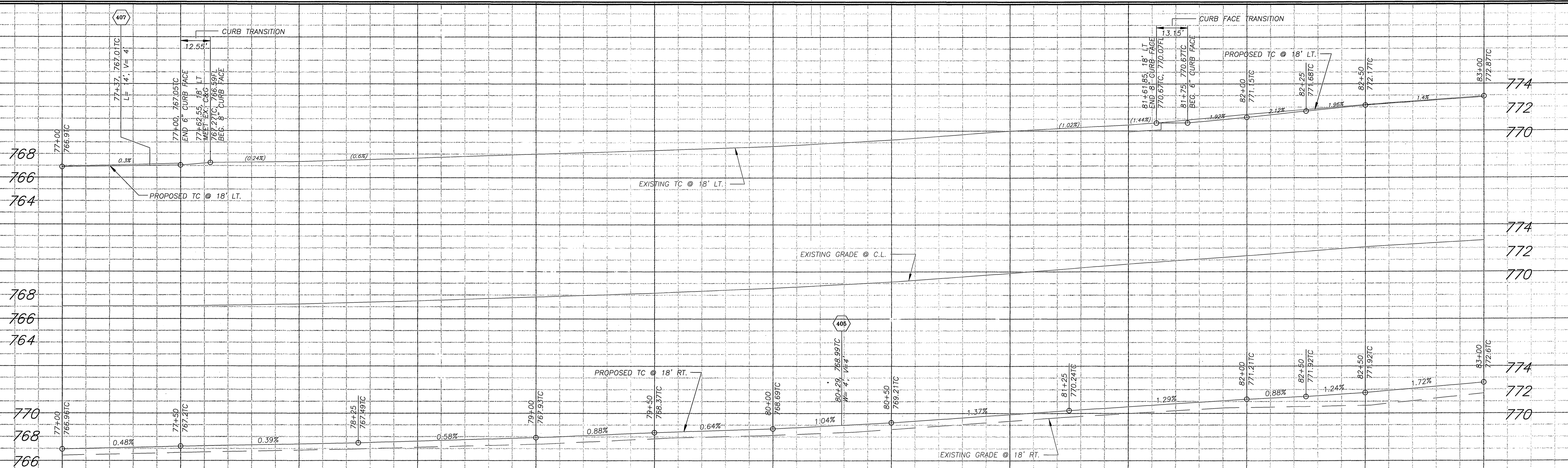
APPROVED BY: *[Signature]* DATE: 9/1/04  
 PRINCIPAL ENGINEER  
 CONSTRUCTION ADMIN.  
 SURVEYOR  
 STREET SERVICES  
 TRAFFIC ENGINEER  
 PARK & REC. DEP.

**MITCHELL AVENUE IMPROVEMENTS FROM CAMPBELL AVENUE TO ARLINGTON AVENUE**

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

ACCT. NO.: 9538230214-440302XK  
**R-3605**  
 SHEET 4 OF 11  
 FILE: COMMON/COMPLETE/R3605-4 PARK & REC.: PC4402-17/PRP03-0012

INDEXED 1-04-05 FH



NO.	STATIONING	CHORD	ARC LENGTH	AREA	PERIMETER
1	13'-19"-24"	8612.42'	2002.70'	1005.89'	
2	14'-00"-23"	8594.42'	2100.56'	1055.75'	
3	13'-22"-49"	8576.42'	2002.84'	1006.00'	

**ENGINEER IN RESPONSIBLE CHARGE**  
*Michael Katusian*  
 MICHAEL KATUSIAN  
 R.C.E. No. 36686 expires 6/30/2006  
 DATE 9/7/04



MARK	REVISIONS	APPR.	DATE

CITY OF RIVERSIDE, CALIFORNIA  
 PUBLIC WORKS DEPARTMENT

APPROVED BY: *[Signature]*  
 DATE: 9/13/04

DESIGNED BY: FYZ DRAWN BY: FYZ CHECKED BY: MK

**MITCHELL AVENUE IMPROVEMENTS FROM CAMPBELL AVENUE TO ARLINGTON AVENUE**

ACCT. NO.: 9538230214-440302XX

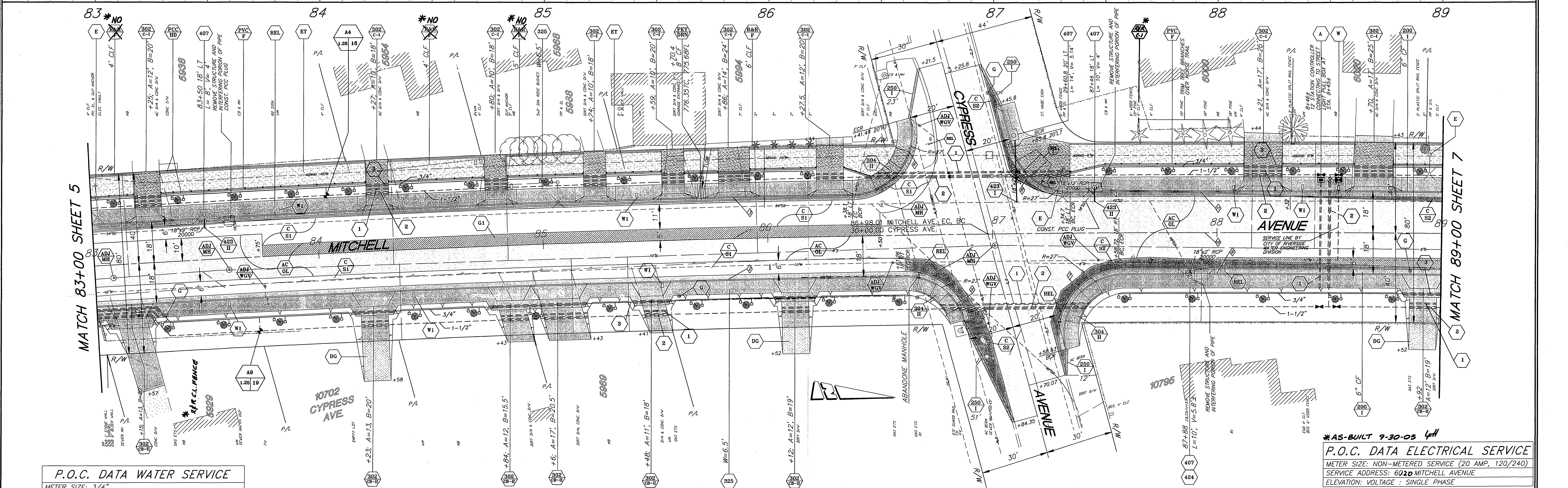
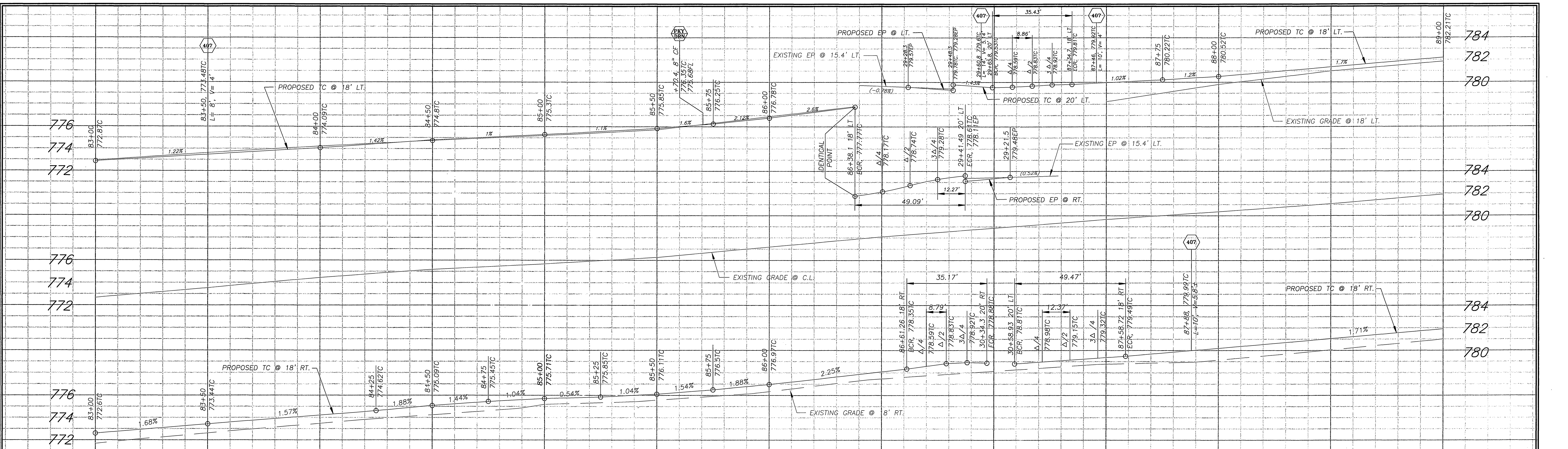
**R-3605**

SHEET 5 OF 11

FILE: COMMON/COMPLETE/R3605-5  
 PARK & REC: PC-4402-1/PPR03-0012

\* AS-BUILT 9-30-05 LHM

INDEXED 1-04-05 LHM



**P.O.C. DATA WATER SERVICE**

METER SIZE: 3/4"

SERVICE ADDRESS: 6020 MITCHELL AVENUE, SUITE WTR

ELEVATION: 781.20

PRESSURE ZONE: 1010 ZONE

STATIC PRESSURE: 65 P.S.I.

SERVED AREA: HIGHEST ELEV. 799.50

LOWEST ELEV. 751.50

MAX. GPM DEMAND: 20 G.P.M.

METER NO.:

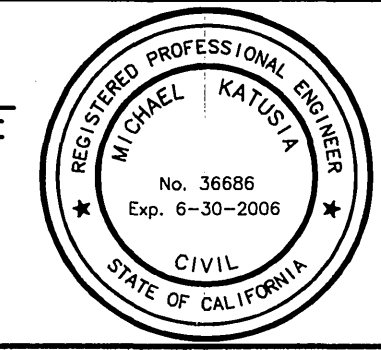
STATION	PC	PVI	PT	LC	STATION	PC	PVI	PT	LC
83+00	83+00	83+00	83+00	83+00	84+00	84+00	84+00	84+00	84+00
84+00	84+00	84+00	84+00	84+00	85+00	85+00	85+00	85+00	85+00
85+00	85+00	85+00	85+00	85+00	86+00	86+00	86+00	86+00	86+00
86+00	86+00	86+00	86+00	86+00	87+00	87+00	87+00	87+00	87+00
87+00	87+00	87+00	87+00	87+00	88+00	88+00	88+00	88+00	88+00
88+00	88+00	88+00	88+00	88+00	89+00	89+00	89+00	89+00	89+00

**ENGINEER IN RESPONSIBLE CHARGE**

*Michael Katusian*

MICHAEL KATUSIAN  
R.C.E. No. 39688 expires 6/30/2006

DATE 9/10/04



REVISIONS

NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	9/10/04
2	REVISED PER CITY COMMENTS	9/13/04

CITY OF RIVERSIDE, CALIFORNIA  
PUBLIC WORKS DEPARTMENT

APPROVED BY: *Tom Berg*  
DATE: 9/13/04

**MITCHELL AVENUE IMPROVEMENTS FROM CAMPBELL AVENUE TO ARLINGTON AVENUE**

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

ACCT. NO.: 8538230214-440302XX

**R-3605**

SHEET 6 OF 11

FILE: COMMON/COMPLETE/R3605-6  
PARK & REC.: PC-4402-1/PRP03-0012

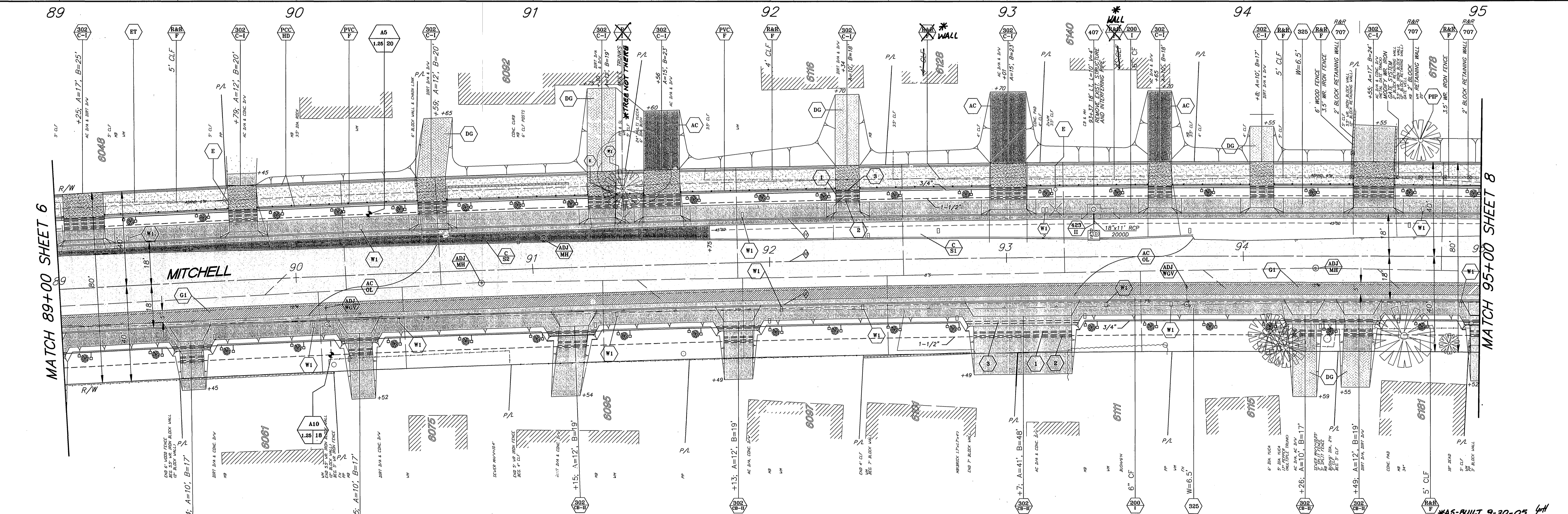
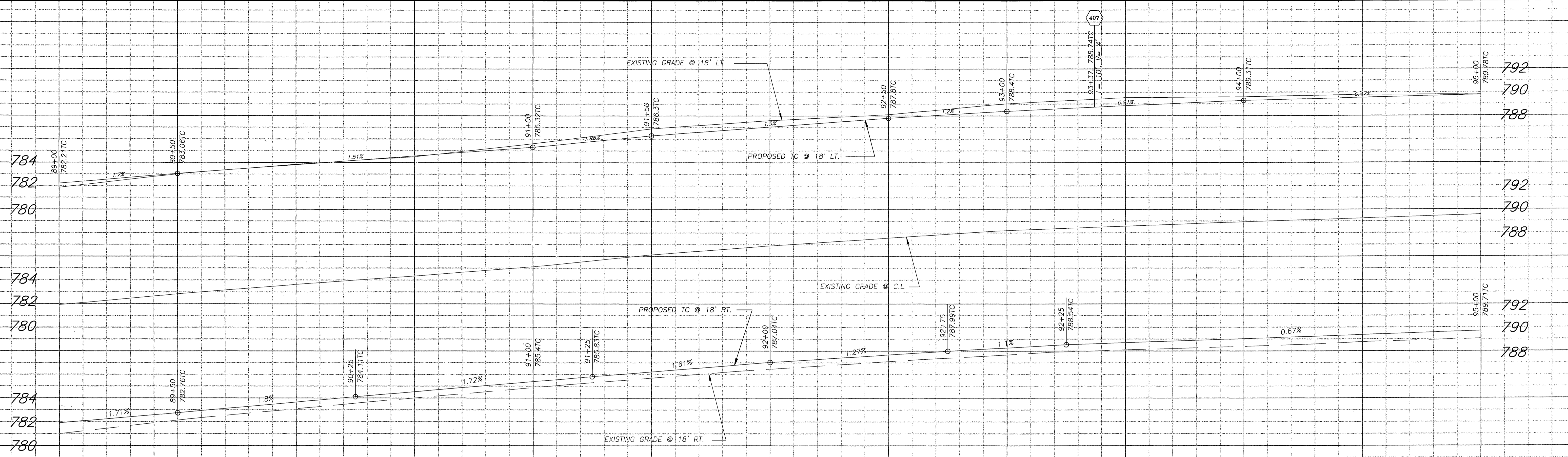
**\*AS-BUILT 9-30-05 LHM**

**P.O.C. DATA ELECTRICAL SERVICE**

METER SIZE: NON-METERED SERVICE (20 AMP, 120/240)

SERVICE ADDRESS: 6020 MITCHELL AVENUE

ELEVATION: VOLTAGE: SINGLE PHASE



Station	Curve Type	Length (ft)	Radius (ft)	Delta (degrees)	Chord (ft)	Offset (ft)
11	R	7'-10"-26"	8612.42'	1078.35'	539.88'	
10	R	7'-25"-07"	8594.42'	1112.79'	557.18'	
9	R	7'-00"-52"	8576.42'	1049.95'	525.64'	

**ENGINEER IN RESPONSIBLE CHARGE**  
*Michael Katousian*  
 MICHAEL KATOUSIAN  
 R.C.E. No. 36686 expires 6/30/2006  
 DATE 9/7/04

**REGISTERED PROFESSIONAL ENGINEER**  
 MICHAEL KATOUSIAN  
 No. 36686  
 Exp. 6-30-2006  
 CIVIL  
 STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY: FYL DRAWN BY: FYL CHECKED BY: MK

**CITY OF RIVERSIDE, CALIFORNIA**  
**PUBLIC WORKS DEPARTMENT**

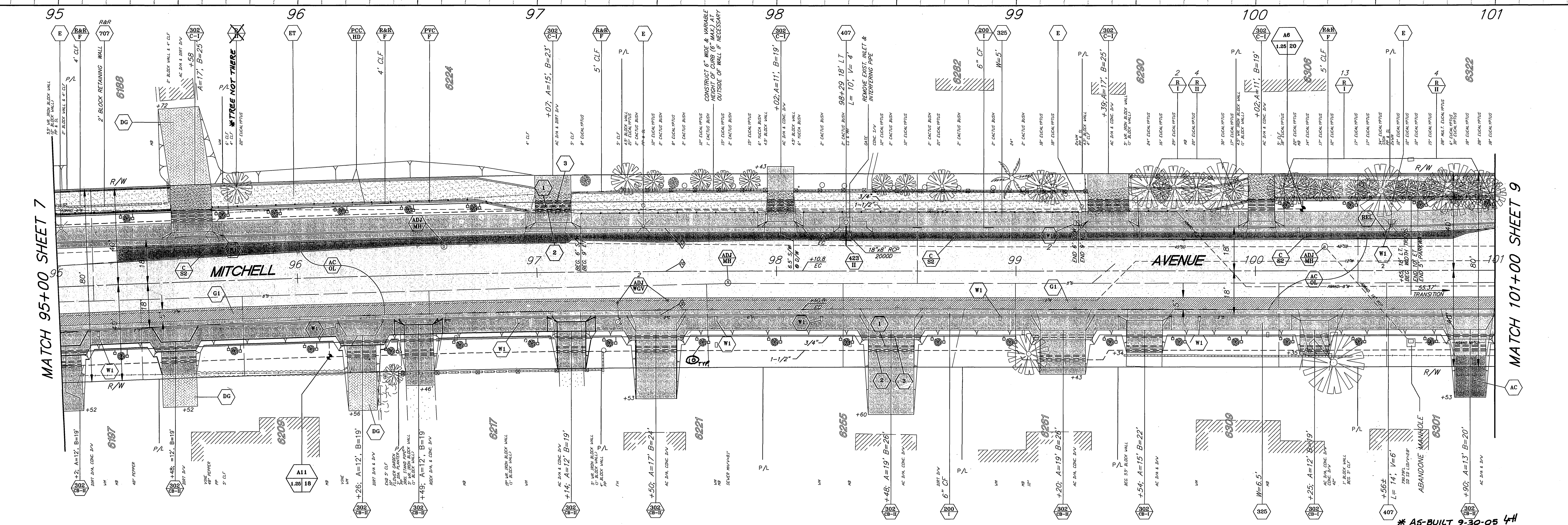
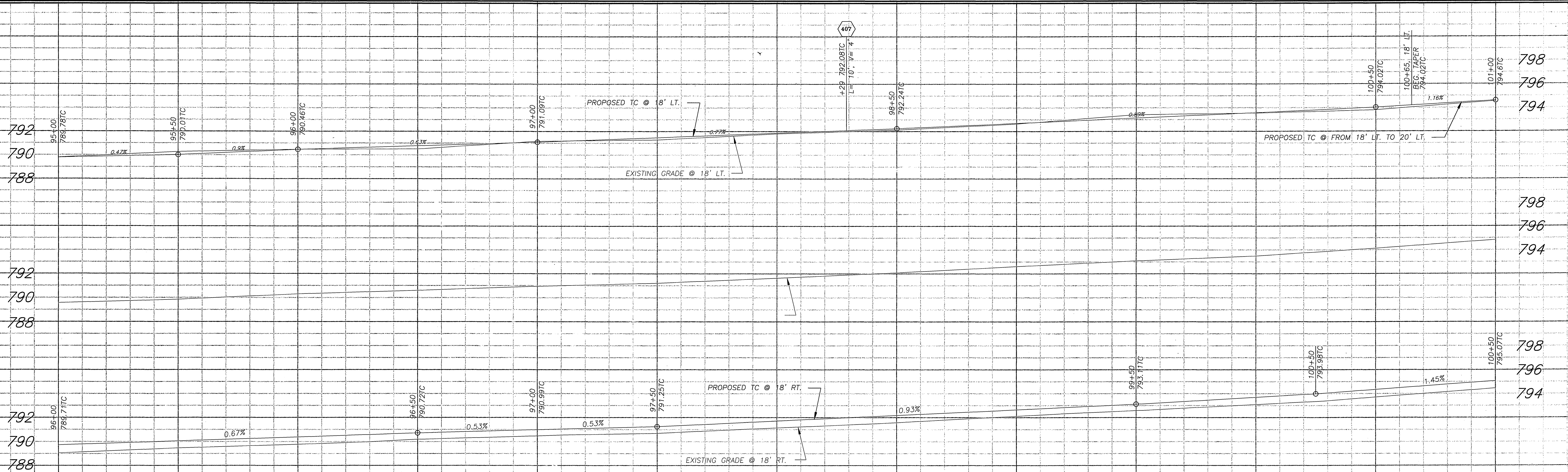
APPROVED BY: *Tom Boyd*  
 DATE: 9/2/04

PRINCIPAL ENGINEER  
 CONSTRUCTION ADMIN.  
 SURVEYOR  
 STREET SERVICES  
 TRAFFIC ENGINEER  
 PARK & REC. DEP.

**MITCHELL AVENUE IMPROVEMENTS FROM CAMPBELL AVENUE TO ARLINGTON AVENUE**

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

ACCT. NO.: 9538230214-440302XX  
**R-3605**  
 SHEET 7 OF 11  
 FILE: COMMON/COMPLETE/R3605-7  
 PARK & REC.: PC-4402-1/PRP03-0012



MATCH 95+00 SHEET 7

MATCH 101+00 SHEET 9

STATION	PC	PT	PI	PE	VC	VC	VC
95+00	95+00	95+00	95+00	95+00	95+00	95+00	95+00
96+00	96+00	96+00	96+00	96+00	96+00	96+00	96+00
97+00	97+00	97+00	97+00	97+00	97+00	97+00	97+00
98+00	98+00	98+00	98+00	98+00	98+00	98+00	98+00
99+00	99+00	99+00	99+00	99+00	99+00	99+00	99+00
100+00	100+00	100+00	100+00	100+00	100+00	100+00	100+00
101+00	101+00	101+00	101+00	101+00	101+00	101+00	101+00

**ENGINEER IN RESPONSIBLE CHARGE**  
*Michael Katusian*  
 MICHAEL KATUSIAN  
 R.C.E. No. 36686 expires 6/30/2006  
 DATE 9/13/01



NO.	REVISIONS	APPR.	DATE
1			
2			
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CITY OF RIVERSIDE, CALIFORNIA  
 PUBLIC WORKS DEPARTMENT

APPROVED BY: [Signature]  
 DATE: 9/13/01

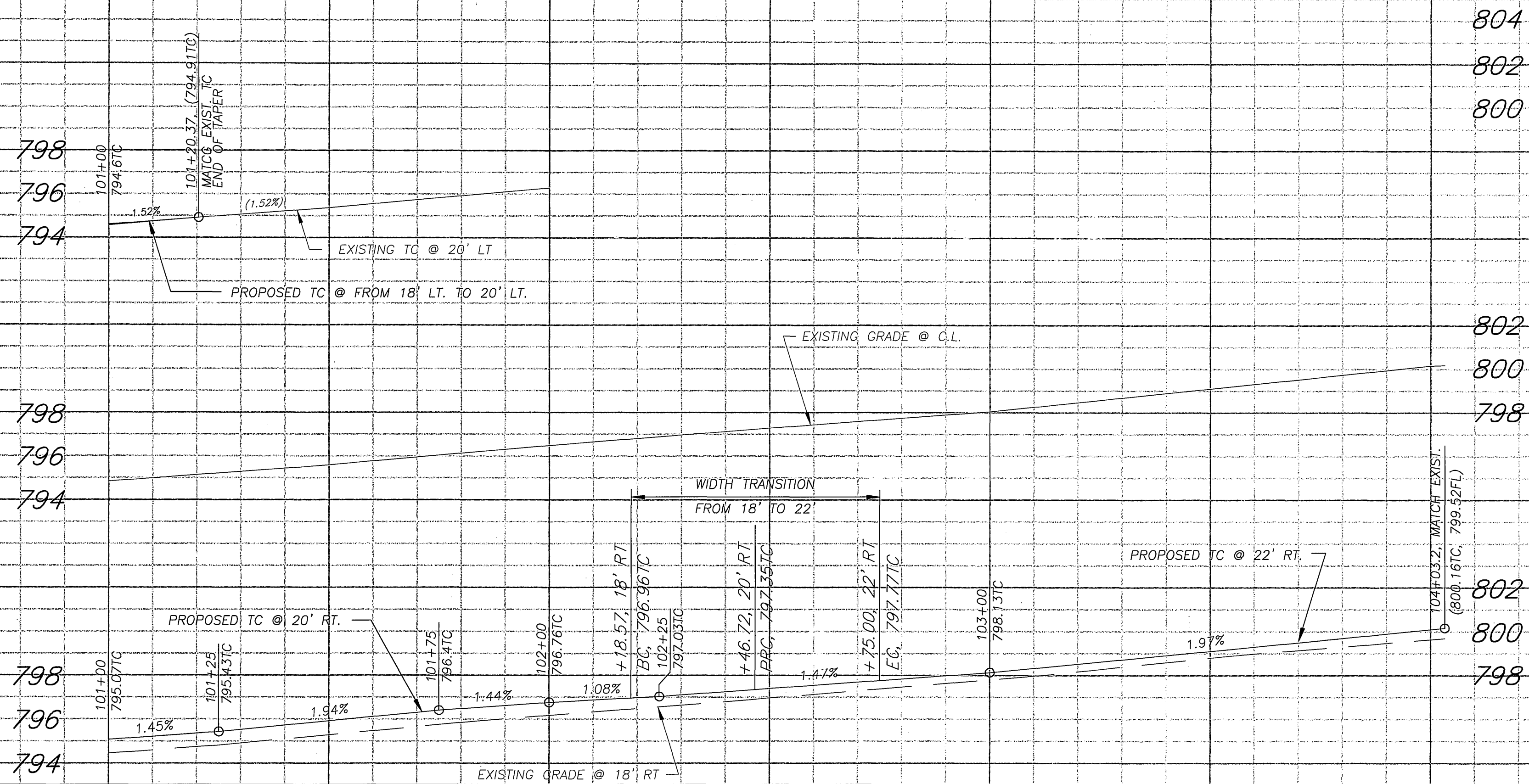
DESIGNED BY: FYL DRAWN BY: FYL CHECKED BY: MK

**MITCHELL AVENUE IMPROVEMENTS FROM CAMPBELL AVENUE TO ARLINGTON AVENUE**

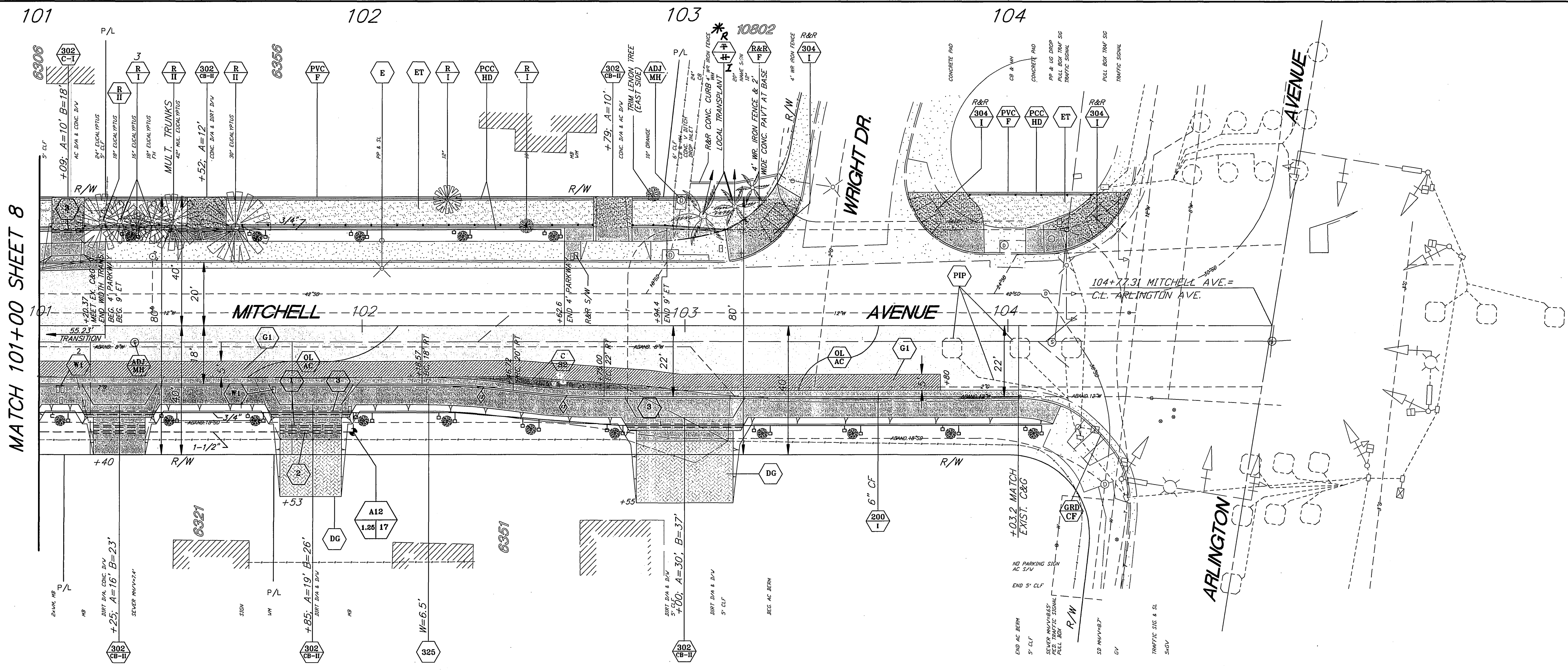
ACC. NO.: 9538230214-440302XX  
 R-3605  
 SHEET 8 OF 11  
 FILE: COMMON/COMPLETE/R3605-8  
 PARK & REC.: PC4402-1/PPR03-0012

INDEXED 1-04-05 4H





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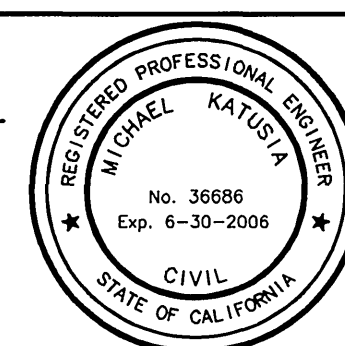


MATCH 101+00 SHEET 8

STATION	TYPE	LC	PC	PT	EC	ET
13	R	8'-06"-35"	200'	28.31'	14.18'	
12	L	8'-06"-35"	200'	28.31'	14.18'	

CURVE DATA

**ENGINEER IN RESPONSIBLE CHARGE**  
*Michael Katusian*  
 MICHAEL KATUSIAN  
 R.C.E. No. 36686 expires 6/30/2006  
 DATE 9/2/04



MARK	REVISIONS	APPR	DATE

DESIGNED BY FYE DRAWN BY FYE CHECKED BY MK

CITY OF RIVERSIDE, CALIFORNIA  
 PUBLIC WORKS DEPARTMENT

APPROVED BY: [Signature]  
 DATE: 9/2/04

PRINCIPAL ENGINEER  
 CONSTRUCTION ADMIN.  
 SURVEYOR  
 STREET SERVICES  
 TRAFFIC ENGINEER  
 PARK & REC. DEP.

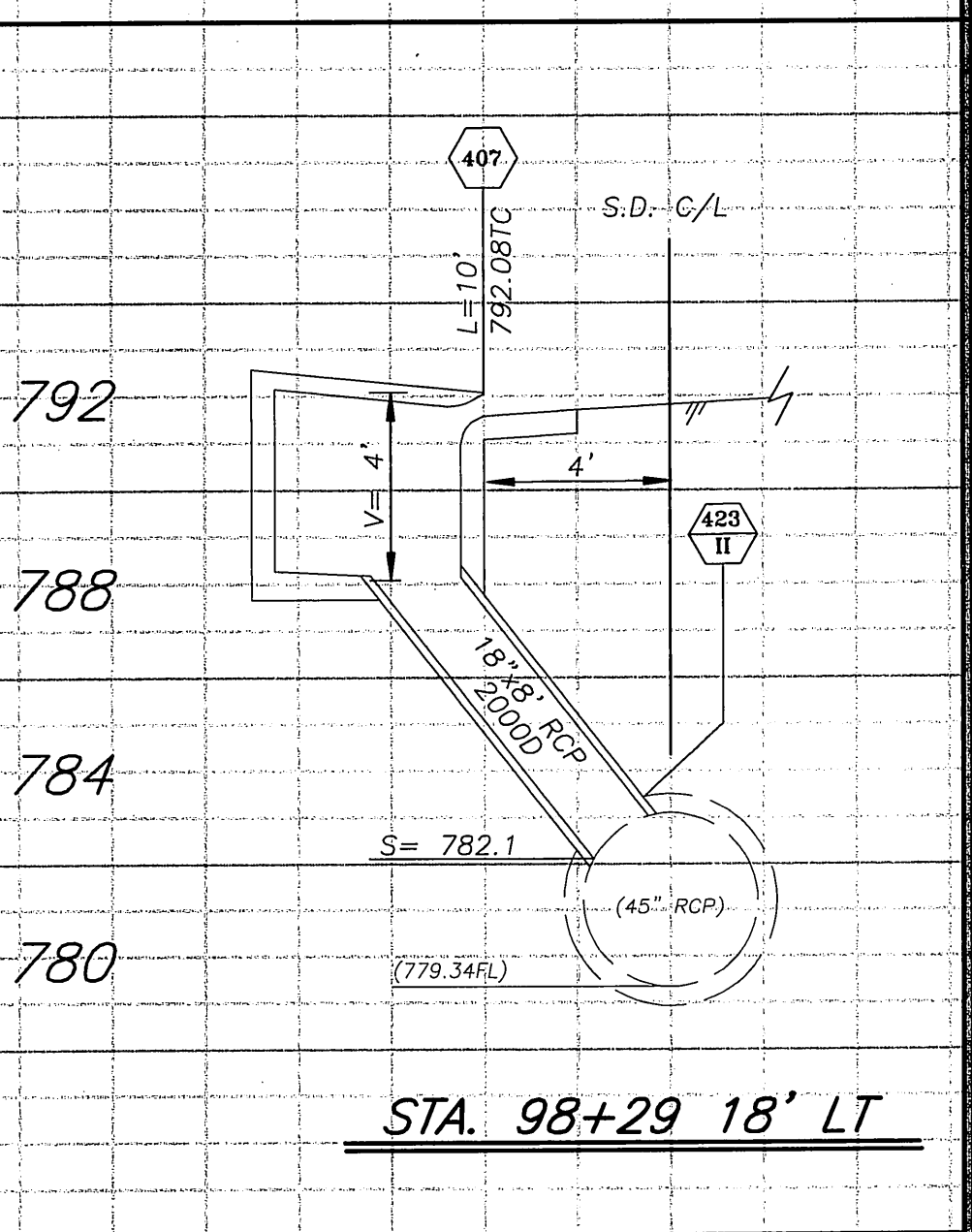
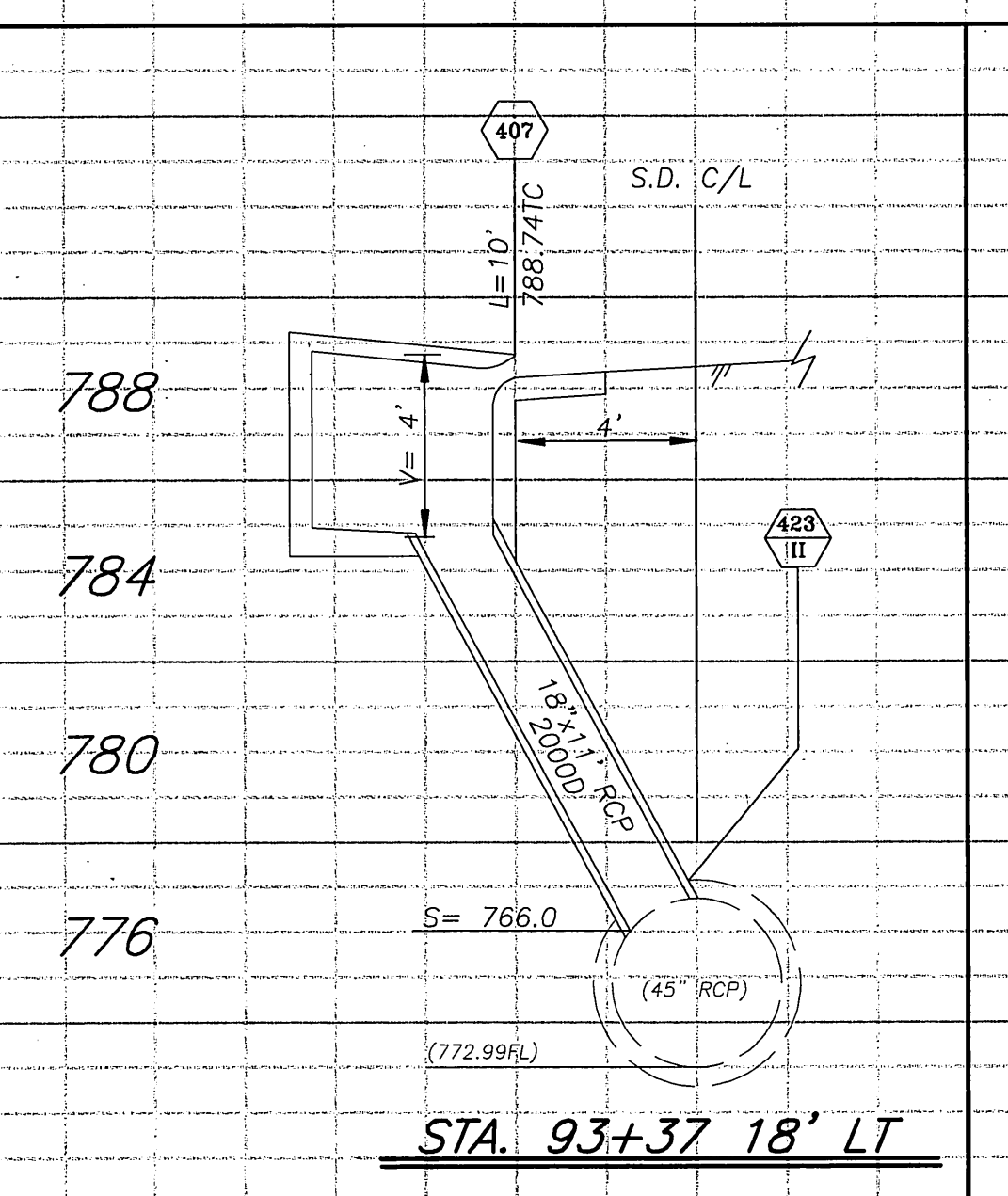
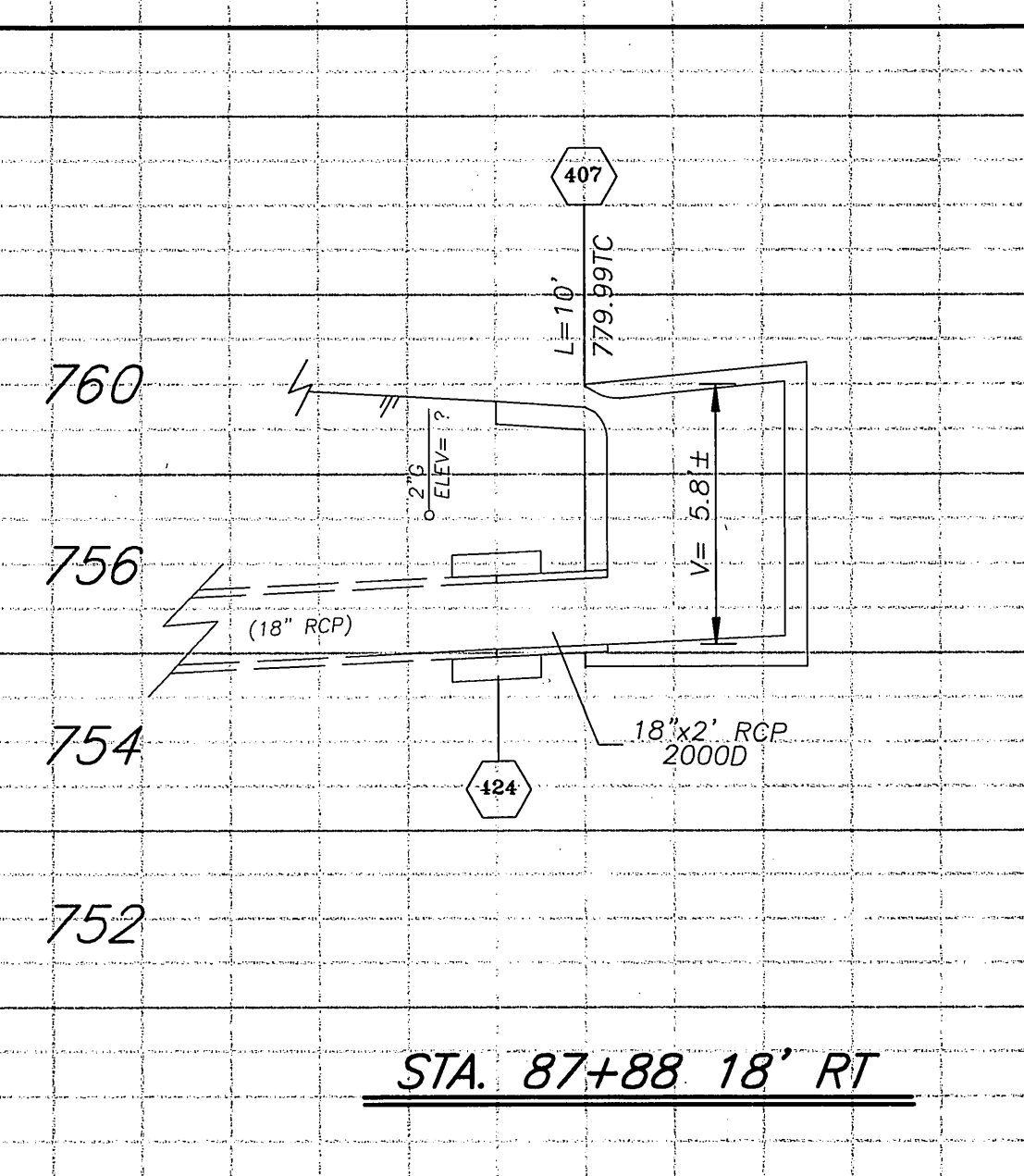
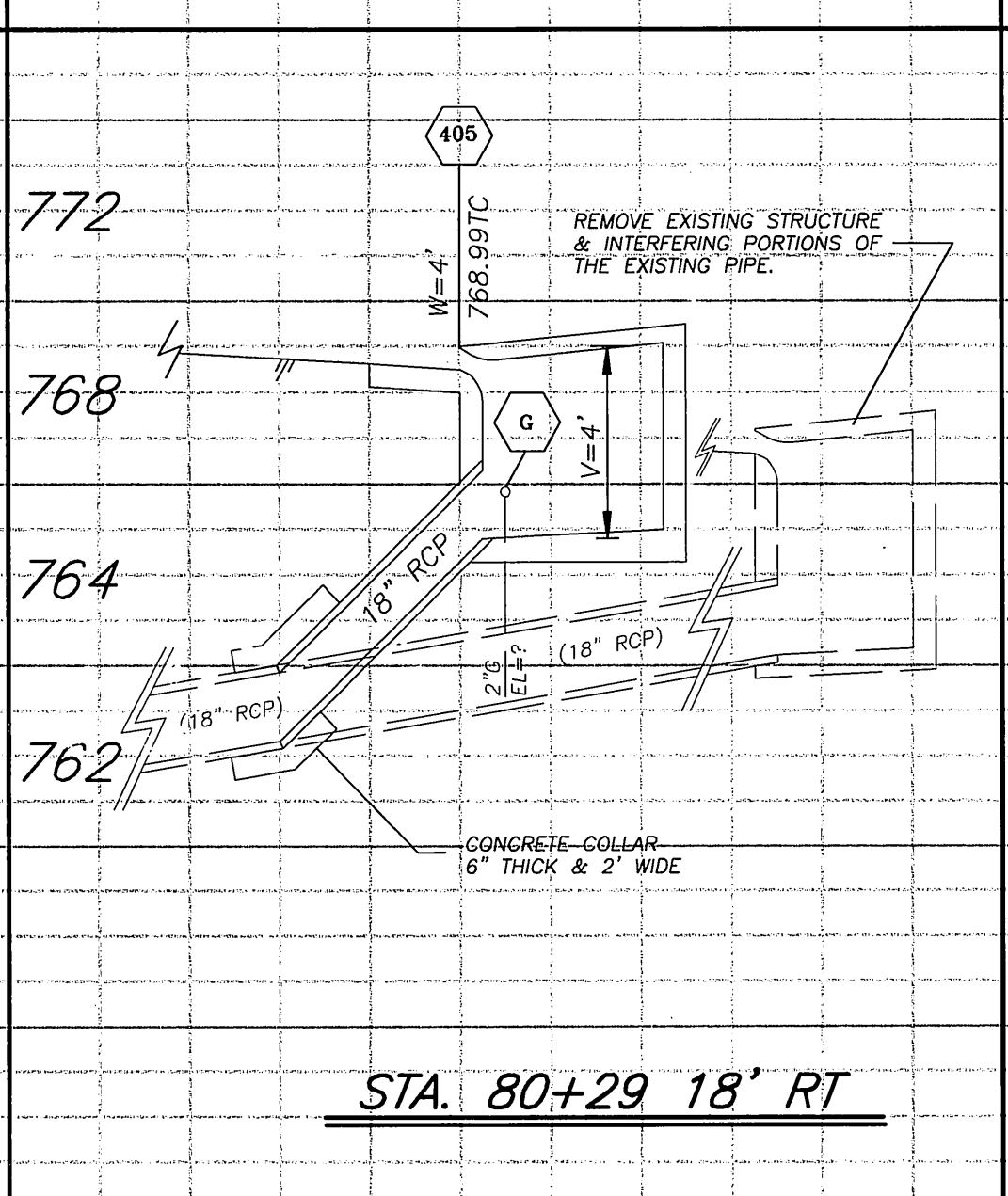
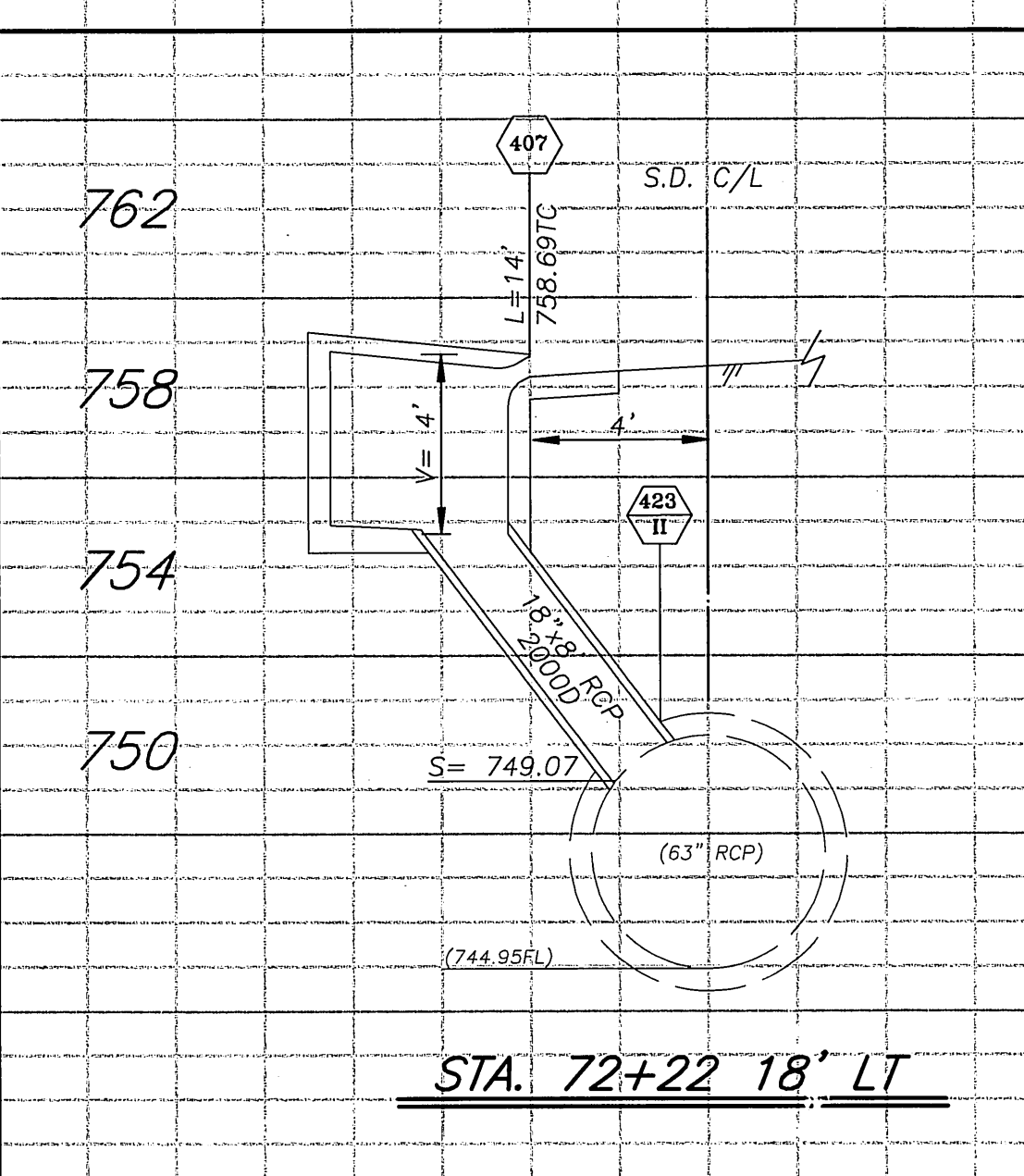
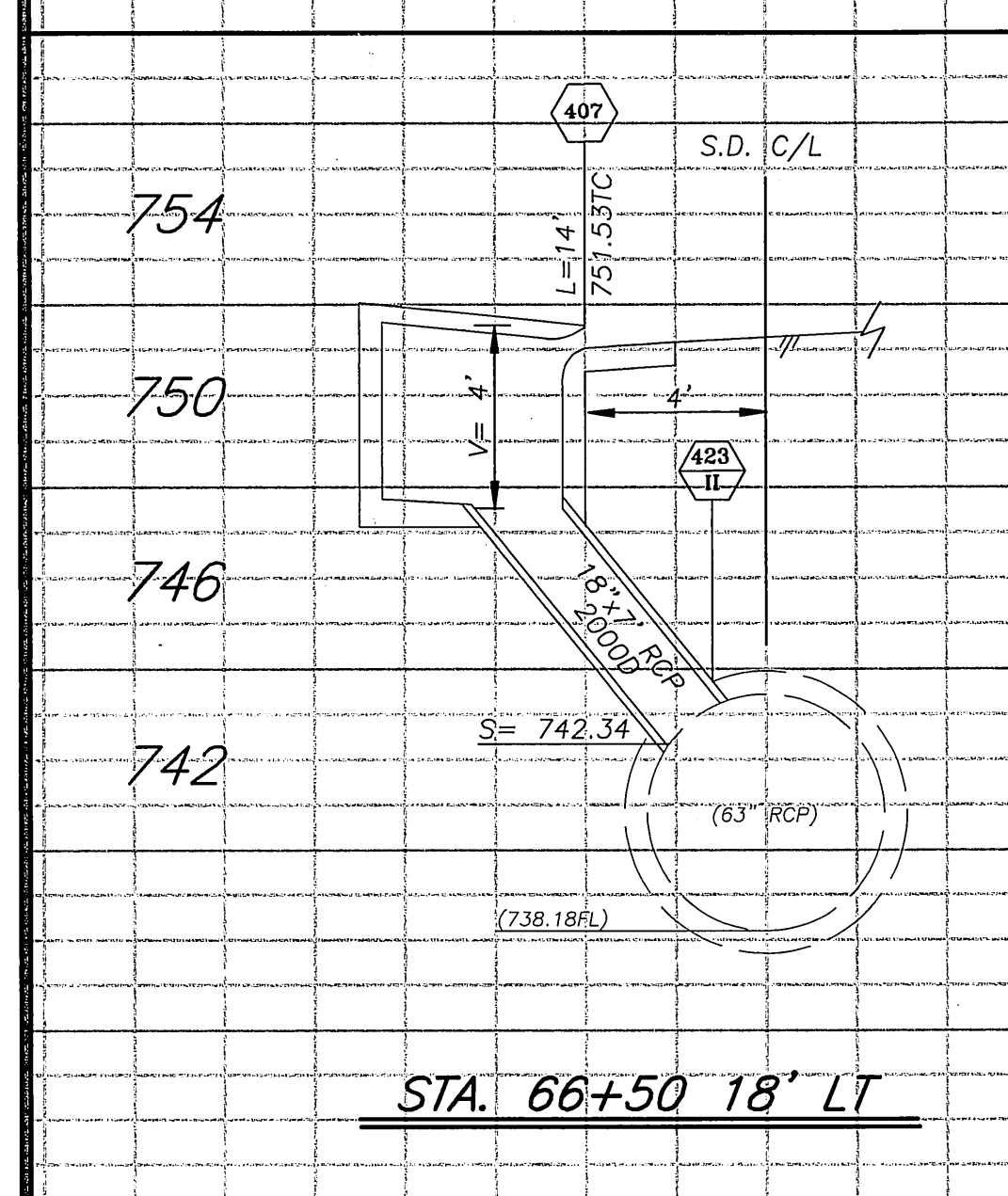
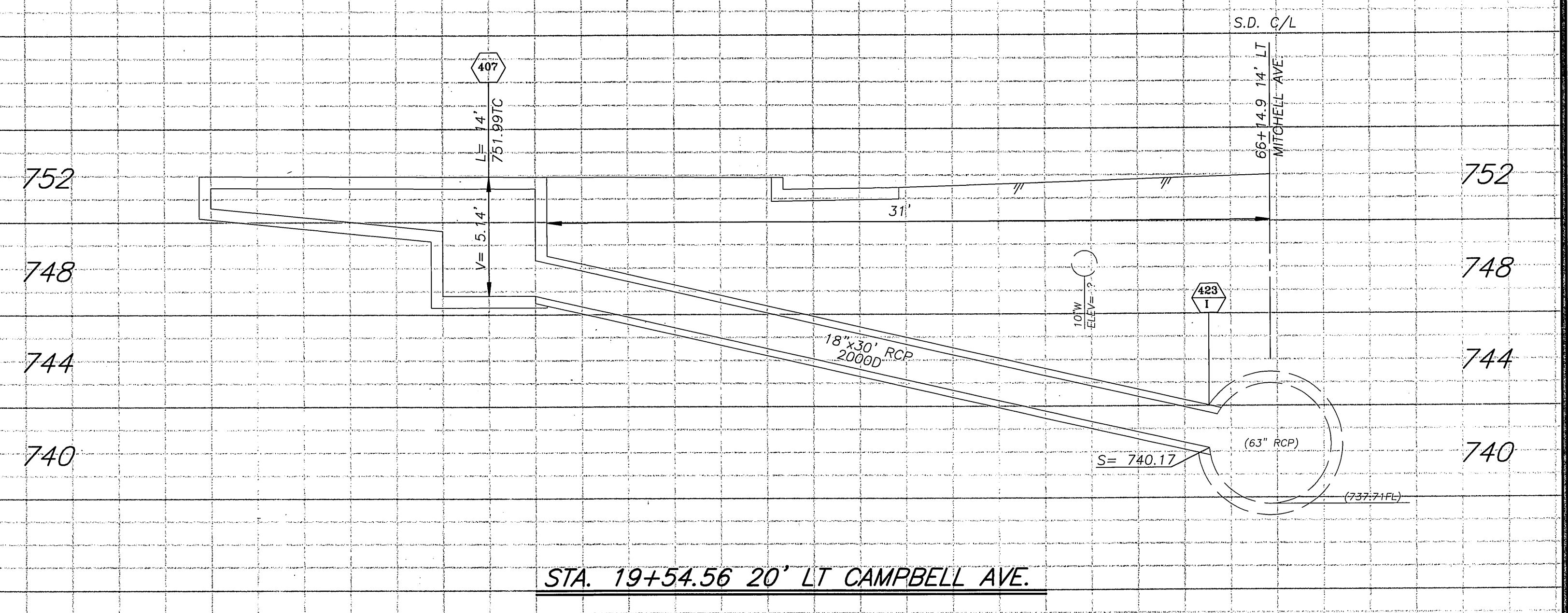
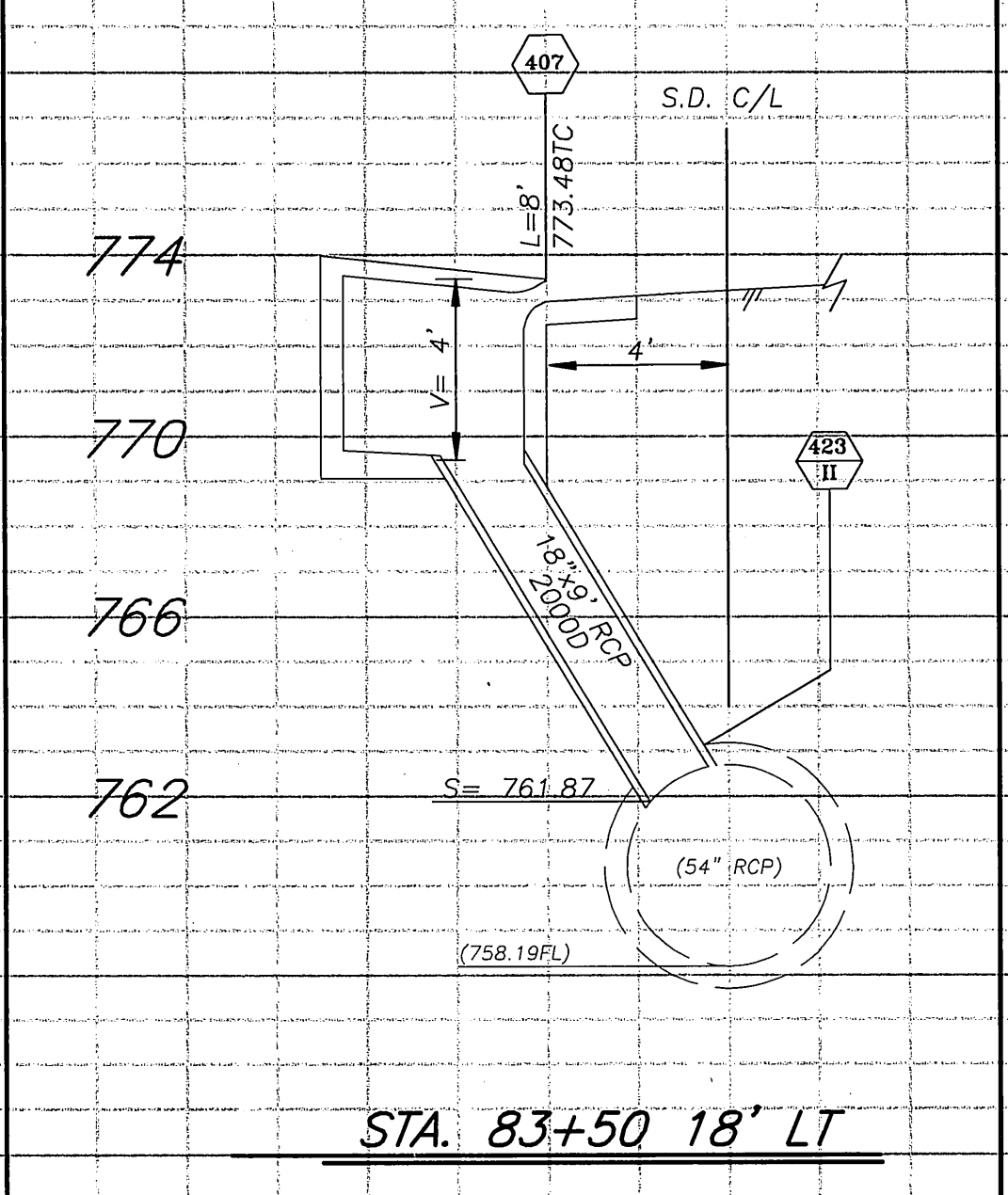
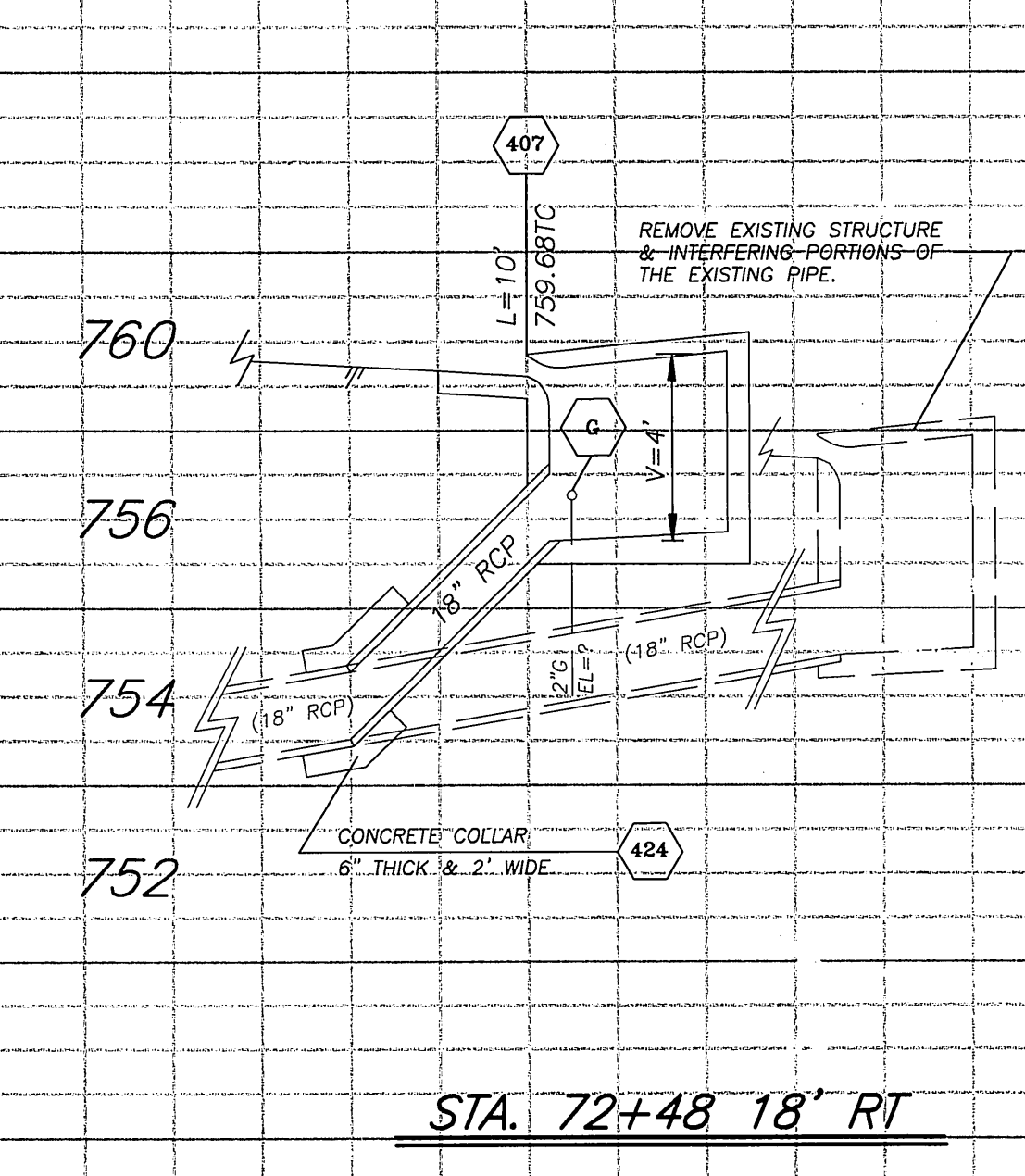
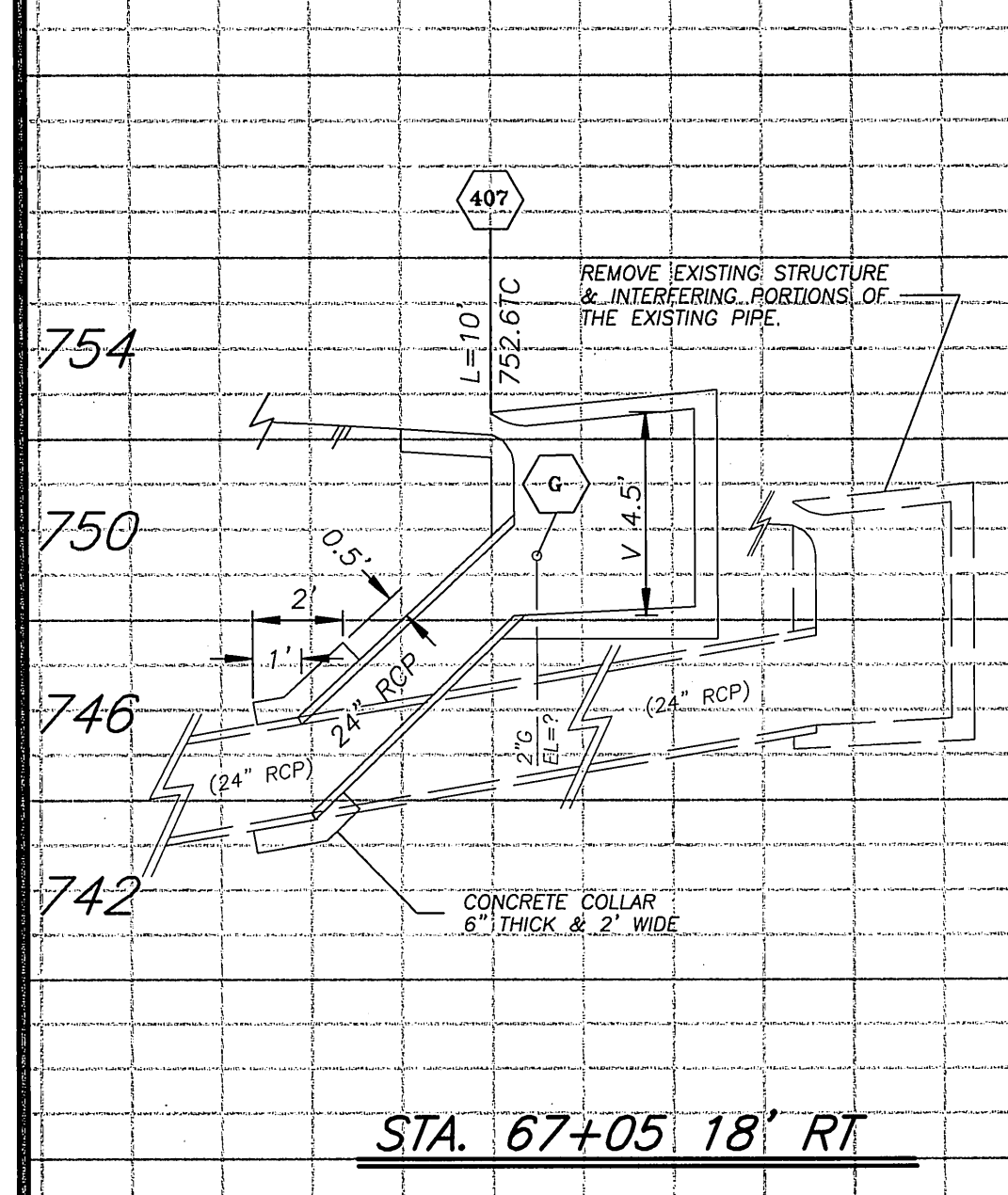
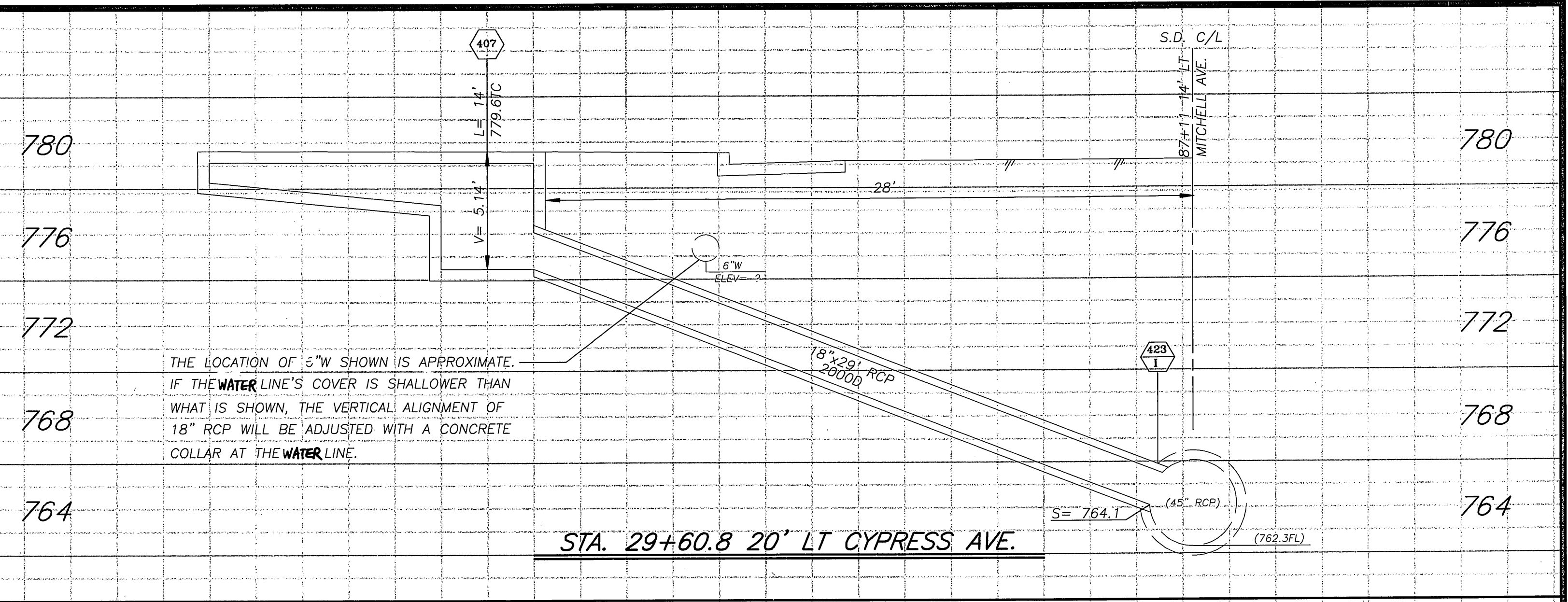
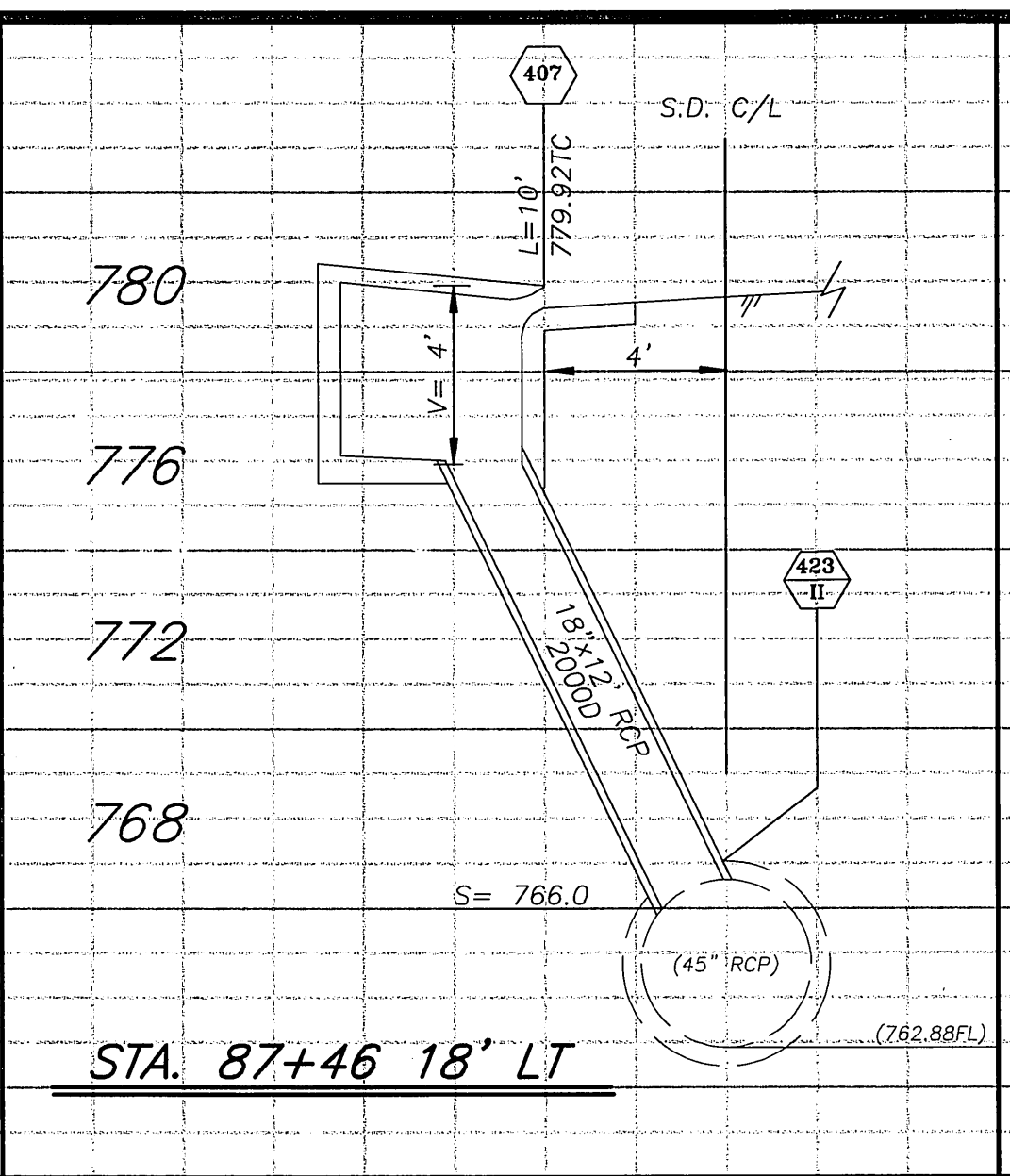
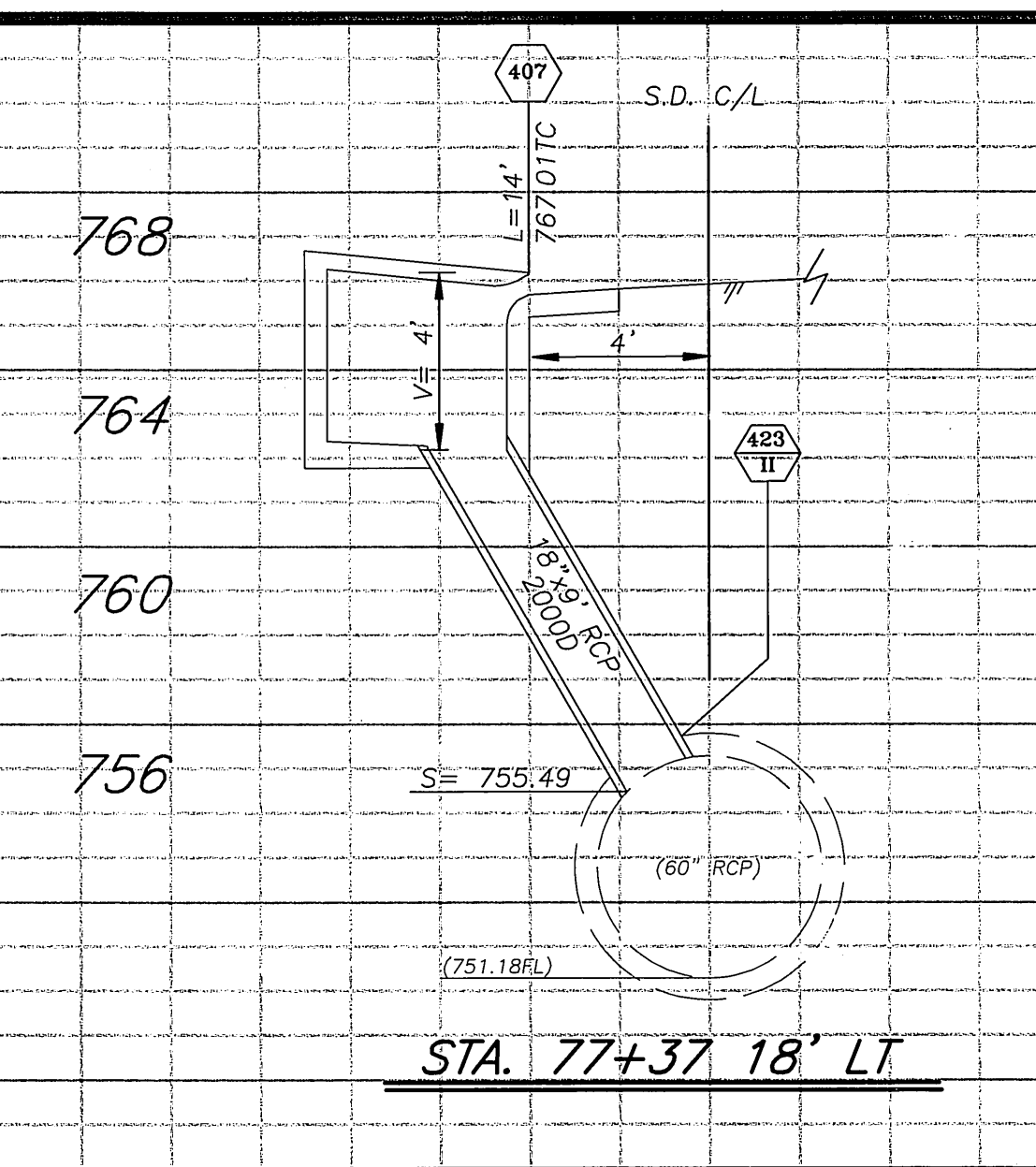
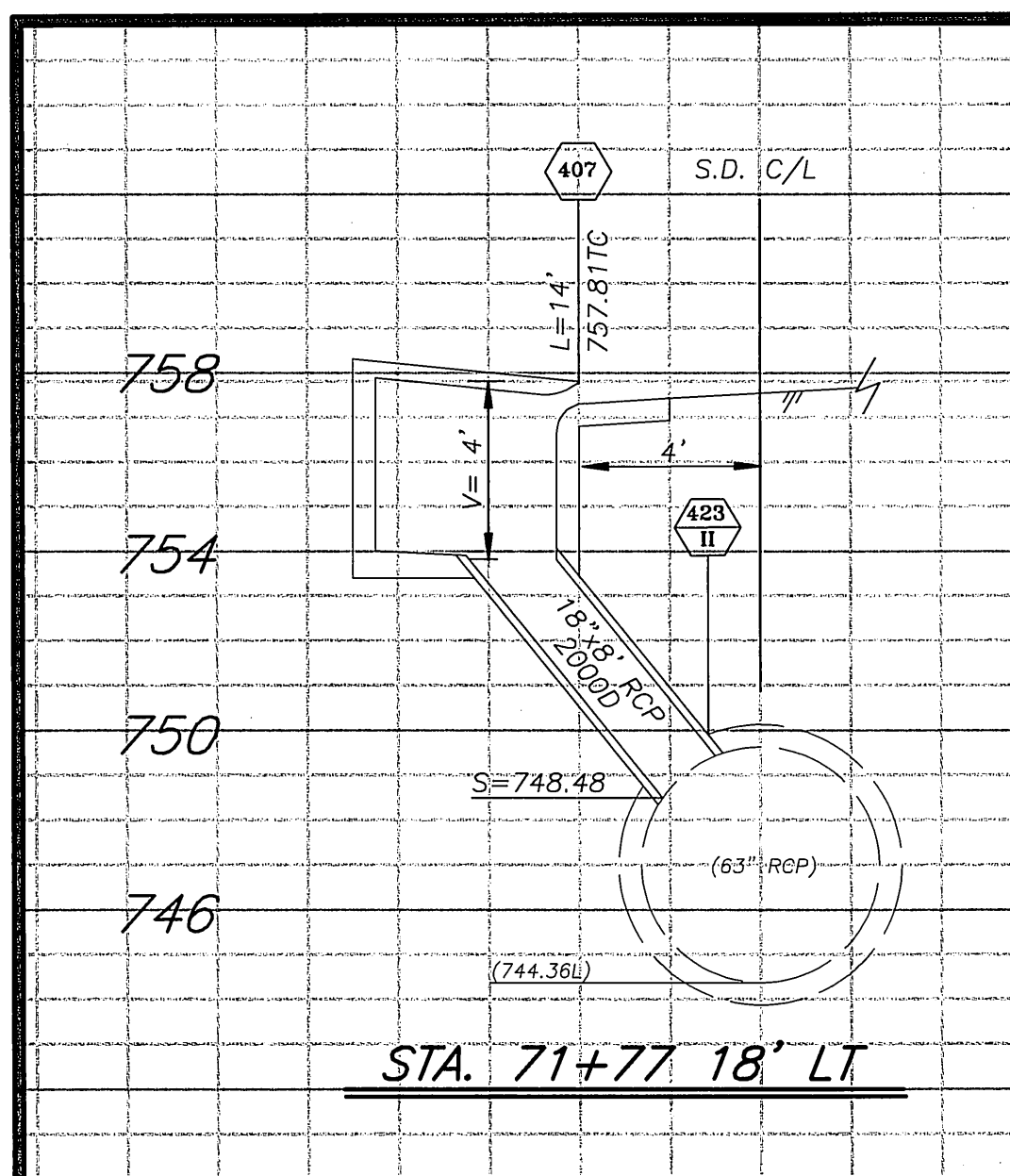
\*AS-BUILT 9-30-05 LHM

**MITCHELL AVENUE IMPROVEMENTS FROM CAMPBELL AVENUE TO ARLINGTON AVENUE**

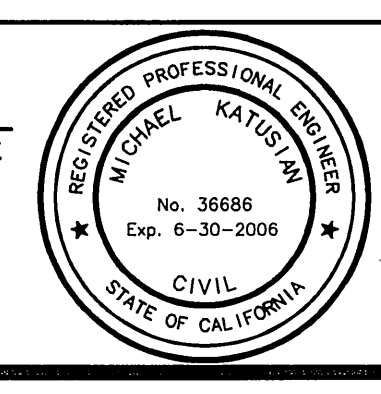
HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = 4'

ACCT. NO.: 9538230214-4403020X  
**R-3605**  
 SHEET 9 OF 11  
 FILE: COMMON/COMPLETE/R3605-9  
 PARK & REC.: PC-4402-1/PRP03-0012

INDEXED 1-04-05 LHM



ENGINEER IN RESPONSIBLE CHARGE  
**Michael Katusian**  
 MICHAEL KATUSIAN  
 R.C.E. No. 36886 expires 6/30/2006  
 DATE 9/7/04



MARK	REVISIONS	APPR.	DATE

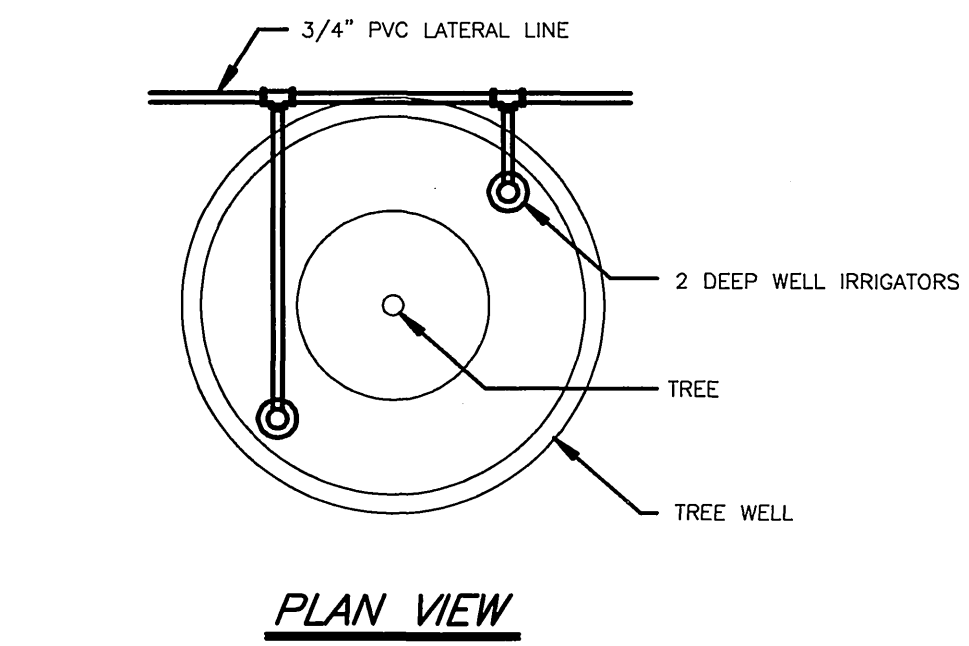
CITY OF RIVERSIDE, CALIFORNIA  
 PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE	APPROVED BY	DATE
PRINCIPAL ENGINEER	DK	9/7/04	City Engineer	9/13/04
CONSTRUCTION ADMIN.	DK	9/7/04		
SURVEYOR	DK	9/7/04		
STREET SERVICES	DK	9/7/04		
TRAFFIC ENGINEER	DK	9/7/04		
PARK & REC'D.	DK	9/7/04		

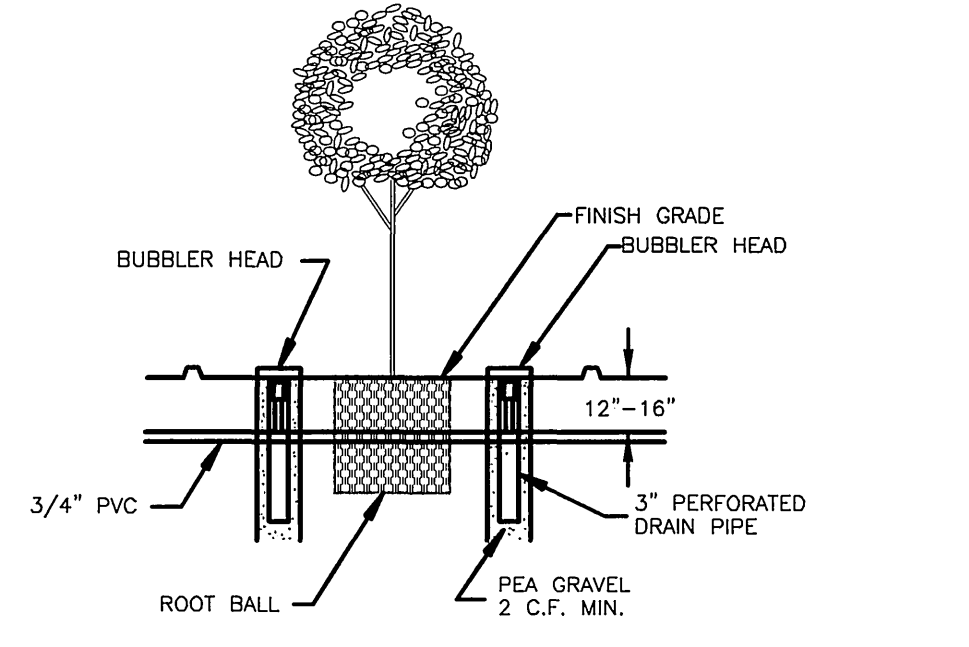
\*AS-BUILT 9-30-05 4H  
 MITCHELL AVENUE  
 IMPROVEMENTS  
 STORM DRAIN PROFILE  
 HORIZ. SCALE: 1" = 4' VERT. SCALE: 1" = 4'

ACCT. NO.: 9538230214-440302XX  
 R-3605  
 SHEET 10 OF 11  
 FILE: COMMON/COMPLETE/R3605-10  
 PARK & REC.: PC-4402-1/PRP03-0312

INDEXED 1-04-05 4H

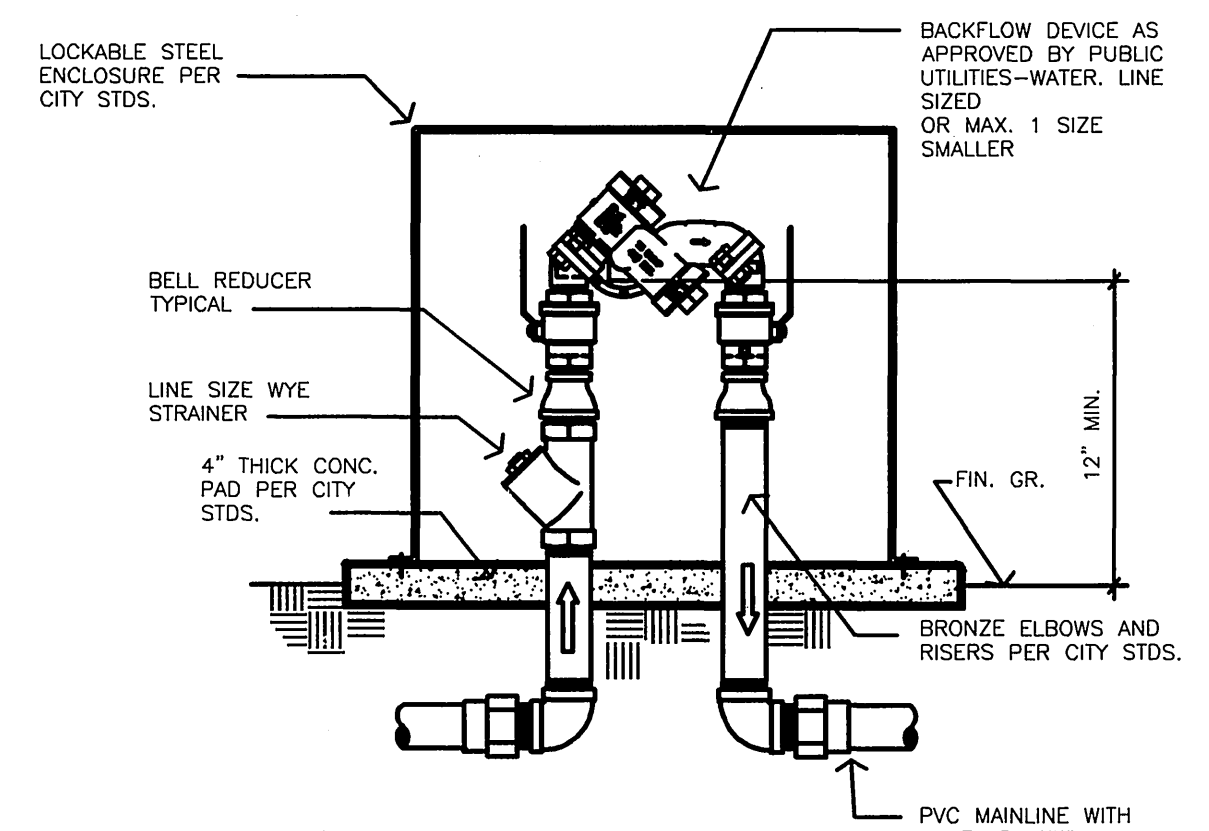


PLAN VIEW



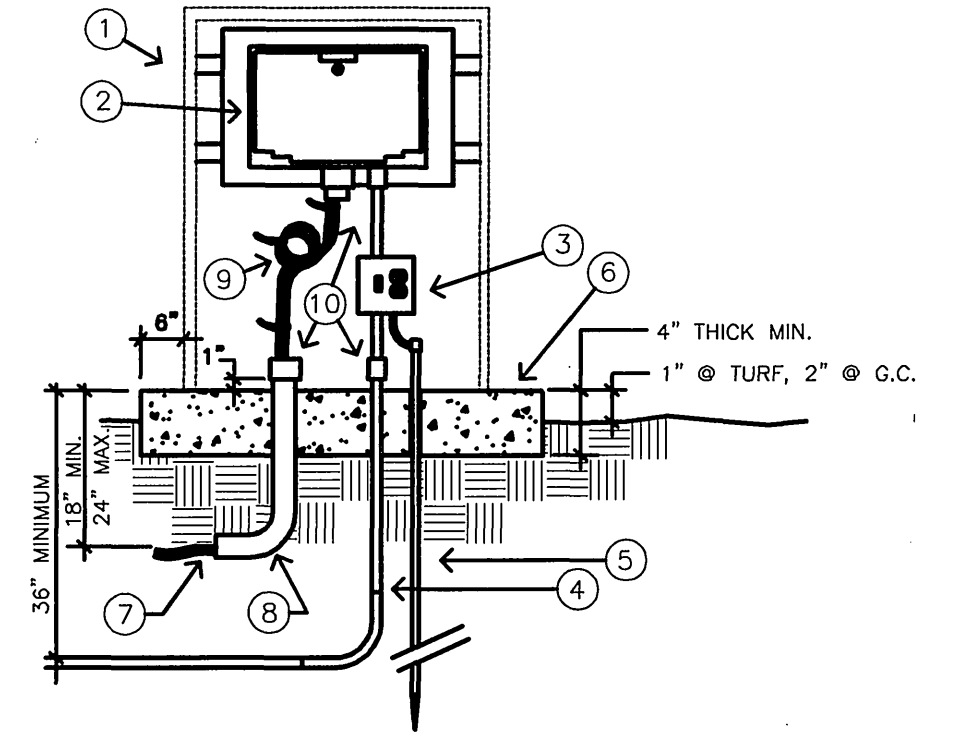
ELEVATION

2 TYPICAL TREE WELL IRRIGATION ASSEMBLY (NTS)



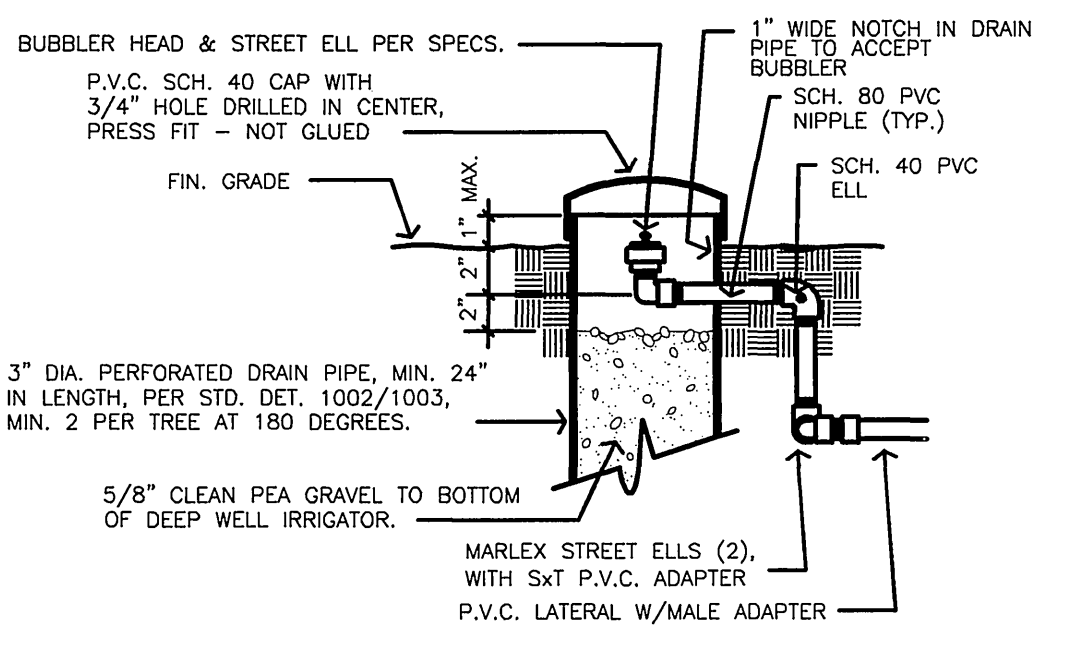
- NOTES:
- 1) Install backflow device square with hardscape elements as approved by the Park Projects Inspector in the field.
  - 2) Coordinate with Public Utilities-Water for location of backflow and water service. Wherever possible, locate service and backflow in the parkway at mid-block a minimum of 150' from the BCR at the nearest intersection per City standards.

4 TYPICAL BACKFLOW DEVICE (NTS)

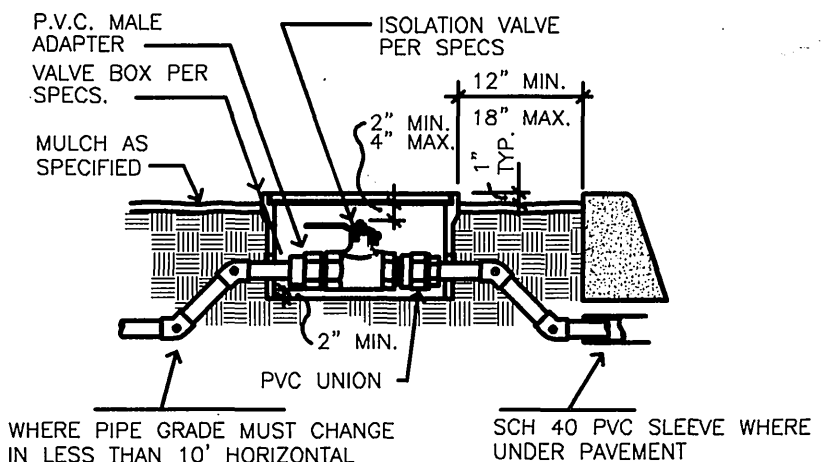


- CONSTRUCTION NOTES:
- 1) STRONG BOX STAINLESS STEEL ENCLOSURE, MODEL SIZED TO FIT CONTROLLER, WITH SERVICE ADDRESS STENCILED ON LOCKING HINGED DOOR. SECURELY ANCHOR ENCLOSURE TO CONCRETE PAD.
  - 2) WEATHER PROOF AUTOMATIC CONTROLLER, SECURELY WALL MOUNTED TO ENCLOSURE.
  - 3) SQUARE D BREAKER BOX MODEL Q02-4L705, OR APPROVED EQUAL WITH SINGLE 15 AMP BREAKER AND DUPLEX OUTLET. MAKE 120 V POWER AND GROUND CONNECTION AT BREAKER BOX. MOUNT IN ENCLOSURE.
  - 4) 3-#8 CU THW WIRES IN MIN. 2" SCH 40 PVC CONDUIT FROM CONTROLLER TO POWER SOURCE. BOND SERVICE TO BREAKER BOX.
  - 5) #8 CU COPPER GROUND WIRE AND 5/8" BY 8' LONG DRIVEN COPPER GROUNDING ROD WITHIN ENCLOSURE. DRIVE ROD PRIOR TO INSTALLATION OF ENCLOSURE.
  - 6) CONCRETE PAD, EXTEND SUFFICIENT DISTANCE IN FRONT OF ENCLOSURE TO ALLOW UNOBSTRUCTED AREA FOR DOOR SWING FREE OF PLANTINGS, 6" MIN. BEYOND ENCLOSURE ON ALL OTHER SIDES.
  - 7) LOW VOLTAGE DIRECT BURIAL WIRES TO CONTROL VALVES.
  - 8) 90° WRAPPED HDG SWEEP ELL, SIZED TO FIT WIRE FOR NUMBER OF STATIONS ON THE CONTROLLER, PLUS SPARES AND COMMON.
  - 9) THREE FOOT EXPANSION LOOP OF CONTROL WIRE, NEATLY LACED WITH ZIP-LOCKS. MAKE CONNECTION DIRECTLY TO IRRIGATION CONTROLLER TERMINALS FOR 12 STATION & SMALLER. USE TERMINAL STRIPS FOR CONTROLLERS LARGER THAN 12 STATIONS.
  - 10) PROVIDE INSULATING ELECTRICAL BUSHINGS AT CONTROLLER AND END OF CONDUITS.

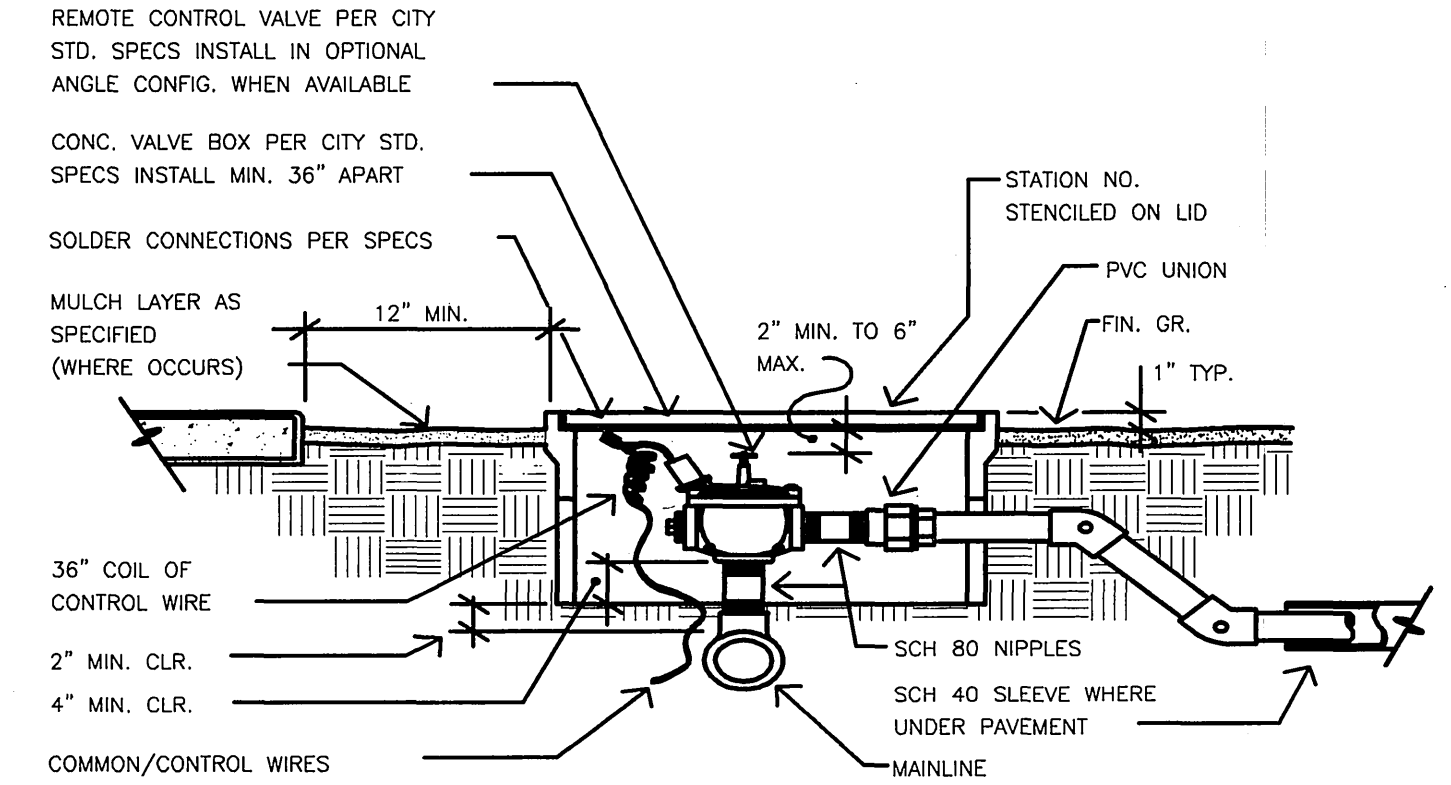
6 TYPICAL IRRIGATION CONTROLLER (NTS)



1 DEEP WELL IRRIGATOR (NTS)

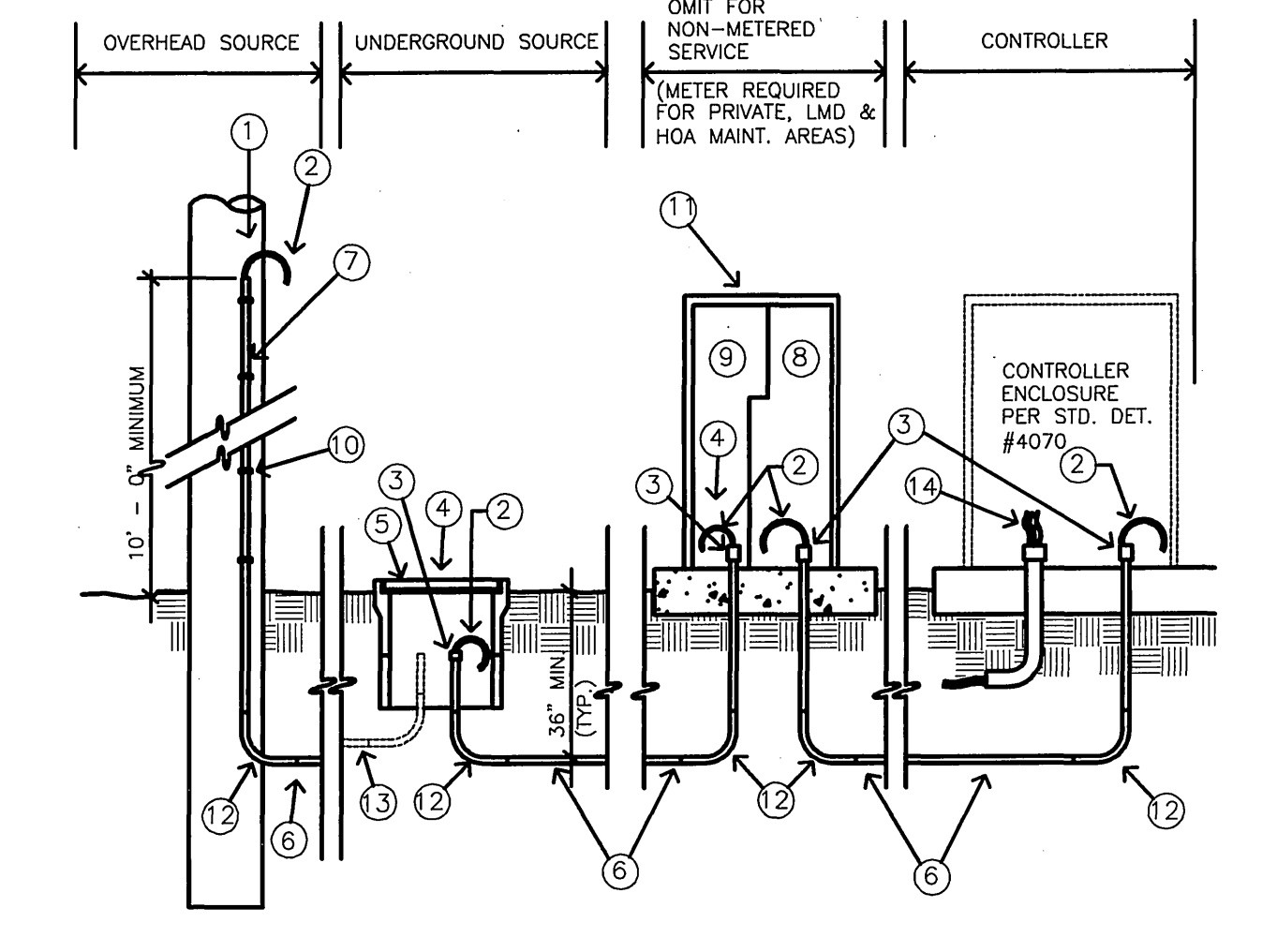


3 TYPICAL BALL VALVE ASSEMBLY (NTS)



- NOTES:
- 1) EACH VALVE SHALL HAVE ITS OWN TEE OR ELL CONNECTION TO THE MAINLINE. NO MANIFOLD CONNECTIONS.
  - 2) PROVIDE MINIMUM 3' CLEAR DISTANCE BETWEEN VALVES.
  - 3) INSTALL VALVE BOX SO THAT BOX DOES NOT REST ON ANY IRRIGATION LINES.
  - 4) PROVIDE STAMPED BRASS TAG 1/2" BY 1" W/ 1/4" HIGH SEQUENCE NUMBER ON ALL CONTROL WIRES.
  - 5) WHERE PIPE DEPTH MUST CHANGE IN LESS THAN 10' HORIZONTAL DISTANCE, USE 45 DEGREE ELBOWS.

5 TYPICAL AUTOMATIC CONTROL VALVE (NTS)



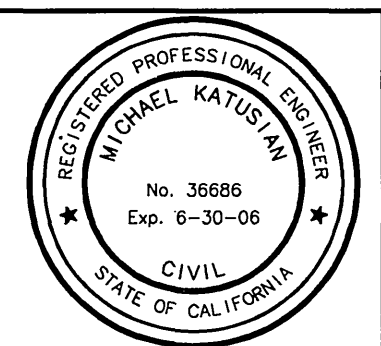
- CONSTRUCTION NOTES:
- 1) COORDINATE W/ UTILITIES-ELECTRIC(909/826-5383) FOR RISER LOCATION ON POLE.
  - 2) 3-#8 CU THW WIRES, CONTRACTOR TO PROVIDE SUFFICIENT WIRE LENGTH BEYOND END OF CONDUIT TO REACH OVERHEAD SECONDARY LINES FOR OVERHEAD SERVICE AND TO PROVIDE 2 FEET OF WIRE BEYOND CONDUIT END AT UGS BOX & 4 FEET OF WIRE AT METER AND CONTROLLER. ID NEUTRAL.
  - 3) PROVIDE INSULATING BUSHING, TERMINATE CONDUIT PER UTILITIES SPEC. UGS-311.
  - 4) P.U. ELECTRIC WILL MAKE SERVICE CONNECTIONS IN UGS BOX FOR NON-METERED SERVICE, AND WILL MAKE CONNECTIONS AT UGS BOX AND SERVICE SIDE OF METER FOR METERED SERVICES.
  - 5) ELECTRIC SERVICE BOX, SIZE PER PUBLIC UTILITIES STANDARDS.
  - 6) MIN. 2" SERVICE CONDUIT PER CITY STDS.; DB BELOW GRADE, HDG ABOVE GRADE, HDG WRAPPED SWEEPS.
  - 7) LINE SIZE HDG CONDUIT WITH 3-#8 CU THW WIRES, PER UTILITIES STANDARDS. ID NEUTRAL.
  - 8) LOAD SECTION.
  - 9) SERVICE SECTION.
  - 10) MINIMUM 3 PIPE STRAPS.
  - 11) METER PEDESTAL PER E.U.S.E.R.C. DRAWING #308. SUBMIT CATALOG CUTS TO P.U.-ELECTRIC FOR APPROVAL PRIOR TO INSTALLATION.
  - 12) LINE SIZE WRAPPED HDG SWEEP ELL, MIN. 9" RAD. (TYP.)
  - 13) EXISTING SERVICE CONDUIT.
  - 14) LOW VOLTAGE IRRIGATION CONTROL WIRE & CONDUIT PER P&R STD. SPECS.

7 TYPICAL ELECTRIC SERVICE (NTS)

PLANTING NOTES:

1. CONTRACTOR SHALL CALL THE ENGINEER'S ATTENTION TO SITE CONDITIONS WHICH PREVENT HIS INSTALLATION PER PLAN IN A REASONABLE MANNER.
2. REPLACEMENT OF DAMAGED OR DESTROYED PLANTINGS SHALL TAKE PLACE WITHIN 48 HOURS OF NOTIFICATION BY THE ENGINEER, OR SAID REPLACEMENT ITEMS SHALL BE DEDUCTED FROM THE CONTRACTOR'S FINAL BILLING.
3. REPLACEMENT ITEMS SHALL BE EXACT DUPLICATE OF ORIGINAL WORK OR PLANTS, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
4. IRRIGATION SYSTEM SHALL BE INSTALLED PRIOR TO PLANT MATERIAL.
5. TREES SHALL BE PLANTED AFTER CONCRETE PLACEMENT, BUT NOT BEFORE IRRIGATION COVERAGE HAS BEEN APPROVED.
6. A SITE SHALL BE PRE-SELECTED BY THE ENGINEER FOR PLANT DELIVERY AND APPROVAL, FOR MIXING OF BACKFILL.
7. CLEAN-UP SHALL TAKE PLACE ON A DAILY BASIS UNLESS OTHERWISE APPROVED BY THE CITY'S REPRESENTATIVE.
8. MAINTENANCE PERIOD SHALL BE 365 CALENDER DAYS FROM DATE OF ACCEPTANCE. MAINTENANCE SHALL INCLUDE BI-WEEKLY WEED AND RODENT ABATEMENT PROCEDURES INCLUDING 4 FOLIAR APPLICATION OF CHELATED IRON AND TRACE MINERALS 90 DAYS APART.

ENGINEER IN RESPONSIBLE CHARGE  
**Michael Katusian**  
 MICHAEL KATUSIAN  
 R.C.E. No. 36686 expires 6/30/06  
 DATE 9/10/04



DESIGNED BY	FYL	DRAWN BY	FYL	CHECKED BY	MK
DATE		DATE		DATE	

CITY OF RIVERSIDE, CALIFORNIA  
 PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER	DK	9/10/04
CONSTRUCTION ADMIN.	PC	9/10/04
SURVEYOR	CS	9/10/04
STREET SERVICES	2/2/04	
TRAFFIC DIVISION		
PARK AND REC. DEPT.		

\*AS-BUILT 9-30-05 LHM  
 MITCHELL AVENUE  
 IMPROVEMENTS  
 FROM CAMPBELL AVENUE  
 TO ARLINGTON AVENUE

ACCT. NO. 953823021-440302  
 R-3605  
 SHEET 11 OF 11  
 FILE NO.: COMMON/COMPLETE/R3605-11  
 PARK & REC.: PC-4402-1/PRP03-0012

INDEXED 1-04-05 LHM