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**ABBREVIATIONS:**

AC	ASPHALT CONCRETE
AB	AGGREGATE BASE
AP	ANGLE POINT
APP	APPROACH
AV	AIR RELEASE VALVE
BC	BEGIN OF CURVE
BCR	BEGIN OF CURVE RETURN
BF	BOTTOM OF FOOTING
BVCE	BEGIN VERTICAL CURVE ELEVATION
BVCS	BEGIN VERTICAL CURVE STATION
BW	BACK OF WALK
CATV	CABLE TV
CB	CATCH BASIN
CF	CURB FACE
CL	CENTERLINE
CO	CLEAN OUT BOX
CONC	CONCRETE
DWG	DRAWING
DWY	DRIVEWAY
E	ELECTRIC
EC	END OF CURVE
ECR	END OF CURVE RETURN
EG	EXISTING GROUND
ELEV	ELEVATION
EP	EDGE OF PAVEMENT
EXP	EXPANSION
FC	FACE OF CURB
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FO	FIBER OPTIC
FS	FINISHED SURFACE
FTG	FOOTING
GB	GRADE BREAK
GV	GAS VALVE
GM	GAS METER
G	GAS LINE
GUY	GUY WIRE
HP	HIGH POINT
INV	INVERT
IRR	IRRIGATION
JT	JOINT
L	LENGTH
LP	LOW POINT
LA	LANDSCAPE AREA
LOC	LENGTH ON CURVE
MB	MAIL BOX
MH	MANHOLE
NG	NATURAL GROUND
PB	PULLBOX
PP	POWER POLE
PCC	POINT OF COMPOUND CURVE
PI	POINT OF INTERSECTION
PRC	POINT OF REVERSE CURVE
R	RADIUS
S	SLOPE
SW	SIDEWALK
SD	STORM DRAIN
SS	SANITARY SEWER
STA	STATION
STD	STANDARD
T	TELEPHONE
TB	TOP OF BERM
TC	TOP OF CURB
TCE	TEMPORARY CONSTRUCTION EASEMENT
TF	TOP OF FOOTING
TG	TOP OF GRATE
TW	TOP OF WALL
TS	TRAFFIC SIGNAL
TYP	TYPICAL
UGE	UNDERGROUND ELECTRIC
W	WIDTH
WM	WATER METER
WW	WATER VALVE

**UTILITY COMPANIES:**

SCE	CONTACT: PHILIP LAMBERT (714) 796-9842
MONTE VISTA WATER DISTRICT	CONTACT: ROBERT TOCK (909) 624-0035
SOUTHERN CALIFORNIA GAS COMPANY	CONTACT: SAM MARTIN (909) 335-7847
MCI COMMUNICATIONS	CONTACT: ALLEN NAGEL (909) 225-9653
LEVEL 3	CONTACT: ERNEST MORRIS (619) 847-1076
VERIZON	CONTACT: FRANK GOMEZ (909) 469-6335

**LEGEND:**

	CONSTRUCT P.C.C. PAVEMENT
	REMOVE PAVING
	EXISTING STREET LIGHT
	EXISTING MANHOLE
	EXISTING FIRE HYDRANT
	EXISTING UTILITY LINE
	EXISTING UTILITY POLE
	DIRECTION OF DRAINAGE
	EXISTING CONTOUR
	DESIGN CONTOUR
	PROPOSED FIRE HYDRANT
	PROPOSED STREET LIGHT
	MAILBOX & SLAB
	PROPOSED MSE WALL
	PROPOSED RETAINING WALL
	PROPOSED MASONRY BLOCK WALL

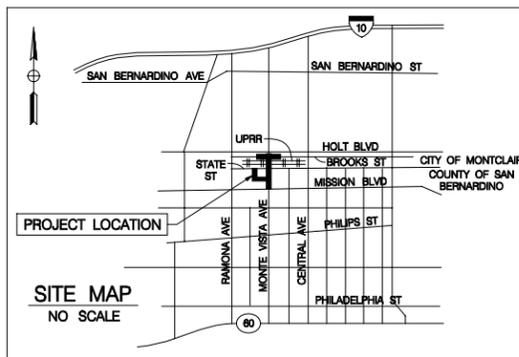
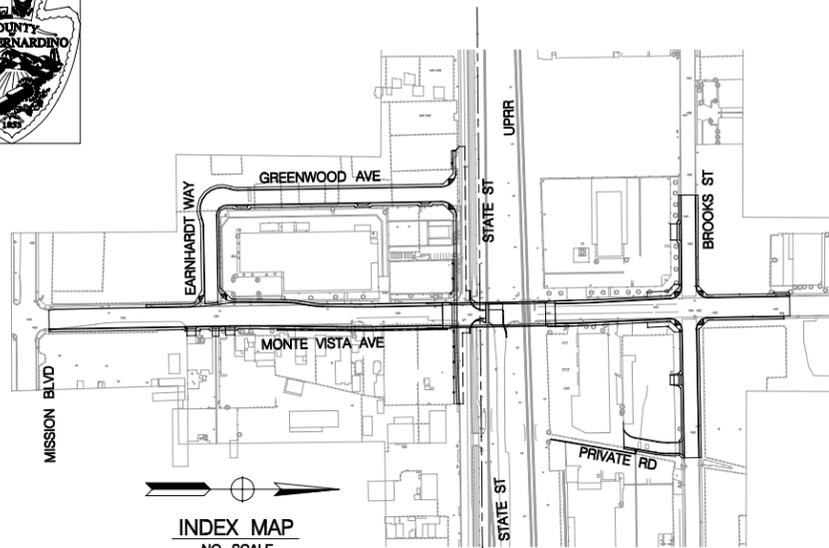
**AGENCIES:**

SBCFCO	CONTACT: RICHARD BRONSTRUP (909) 387-8130
KINDER MORGAN	CONTACT: DR. QUINN (714) 560-4400
UPRR	CONTACT: MICHAEL HEALD (402) 271-3719 (FIBEROPTICS DIVISION)

# CITY OF MONTCLAIR

## MONTE VISTA AVENUE

### BETWEEN MISSION BOULEVARD AND BROOKS STREET



**GENERAL NOTES**

- ALL WORK SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK) LATEST EDITION WITH ALL SUPPLEMENTS, CITY OF MONTCLAIR AND COUNTY OF SAN BERNARDINO STANDARD DRAWINGS AND SPECIFICATIONS, RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT STANDARD DRAWINGS (RCTC), LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS (LACDPW) STANDARD PLANS, CALTRANS STANDARD PLANS AND SPECIFICATIONS 2003 SHALL APPLY TO ALL BRIDGES, RETAINING WALLS, TRAFFIC SIGNALS AND STREET LIGHTING.
- APPROVAL OF THIS PLAN BY THE CITY OF MONTCLAIR DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION OR OF THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR THE PROTECTION OF ALL UTILITIES WITHIN THE LIMITS OF THE PROJECT. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT 48 HOURS PRIOR TO START OF WORK.
- A PERMIT FROM THE SAN BERNARDINO COUNTY, DEPARTMENT OF PUBLIC WORKS WILL BE REQUIRED PRIOR TO ANY ENCROACHMENT, CONSTRUCTION OR EXCAVATION WITHIN THE COUNTY RIGHTS OF WAY OR EASEMENTS.
- INSPECTION SHALL BE BY THE CITY OF MONTCLAIR DEPARTMENT OF PUBLIC WORKS. ALL REQUESTS FOR INSPECTION SHALL BE MADE AT LEAST 24 HOURS IN ADVANCE OF THE PROPOSED CONSTRUCTION.
- ALL JOIN LINES SHALL BE SAW CUT ON A NEAT, STRAIGHT LINE PARALLEL WITH THE JOIN. THE CUT EDGE SHALL BE PROTECTED FROM CRUSHING, AND ALL BROKEN EDGES SHALL BE RECUT PRIOR TO PAVING.
- DURING THE PERIOD OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN SUCH WARNINGS, SIGNS, STOP SIGNS, BARRICADES AND OTHER SAFETY MEASURES IN CONFORMANCE WITH THE W.A.T.C.H. MANUAL.
- CONTRACTOR SHALL REINSTALL PAVEMENT MARKINGS, STRIPING AND SIGNING THAT HAS BEEN DISTURBED BY HIS OPERATIONS.
- THE CONTRACTOR SHALL PROVIDE SAFE AND CONTINUOUS ACCESS TO BUSINESS RESIDENCES FOR LOCAL PEDESTRIAN AND VEHICULAR TRAFFIC AT ALL TIMES.
- TRAFFIC SIGNAL FUNCTIONS SHALL BE THE RESPONSIBILITY OF THE CITY. HOWEVER, THE CONTRACTOR IS REQUIRED TO GIVE 48-HOUR NOTICE PRIOR TO CONSTRUCTION THAT WILL DAMAGE OR AFFECT ANY BURIED TRAFFIC DETECTORS OR OTHER UNDERGROUND FACILITIES.
- SHOULD ANY OF THE EXISTING UTILITIES OR ANY OTHER FACILITIES CONFLICT WITH THE PROPOSED IMPROVEMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND AWAIT THE RELOCATION AND/OR PROVIDE AN ALTERNATE DESIGN.
- THE CONTRACTOR SHALL SO CONDUCT HIS OPERATIONS AS TO OFFER THE LEAST POSSIBLE OBSTRUCTION AND INCONVENIENCE TO THE PUBLIC, AND HE SHALL HAVE UNDER CONSTRUCTION NO GREATER LENGTH OR AMOUNT OF WORK THAN HE CAN PROSECUTE PROPERLY WITH DUE REGARD TO THE RIGHTS OF THE PUBLIC.
- CONVENIENT ACCESS TO DRIVEWAYS, HOUSES, AND BUILDINGS ALONG THE LINE OF WORK SHALL BE MAINTAINED, AND TEMPORARY CROSSINGS SHALL BE PROVIDED AND MAINTAINED IN GOOD CONDITION. NOT MORE THAN ONE CROSSING OR INTERSECTING STREET OR ROAD SHALL BE CLOSED AT ANY ONE TIME WITHOUT THE APPROVAL OF THE ENGINEER.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SUCH FENCES, BARRIERS, DIRECTIONAL SIGNS, LIGHTS, AND FLAGMEN AS ARE NECESSARY TO GIVE ADEQUATE WARNING TO THE PUBLIC AT ALL TIMES OF ANY DANGEROUS CONDITIONS TO BE ENCOUNTERED AS A RESULT OF THE CONSTRUCTION WORK AND TO GIVE DIRECTIONS TO THE PUBLIC.
- THE CONTRACTOR SHALL EXERCISE DUE CARE TO AVOID INJURY TO EXISTING IMPROVEMENTS OR FACILITIES, UTILITY FACILITIES, ADJACENT PROPERTY, AND TREES AND SHRUBBERY THAT ARE NOT TO BE REMOVED.
- IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK, AND THE CONTRACTOR SHALL FULLY COMPLY WITH ALL STATE AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDERS RELATING TO SAFETY TO THE PUBLIC AND WORKMEN.
- DUST SHALL BE CONTROLLED AT ALL TIMES BY APPROVED METHODS.
- PUBLIC STREETS SHALL BE KEPT CLEAN AND FREE FROM DIRT AND/OR DEBRIS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED IN STREET CLEANING NECESSITATED BY HIS OPERATION.
- FULL STREET CLOSURE WILL NOT BE PERMITTED UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED FROM THE DIRECTOR OF PUBLIC WORKS/CITY ENGINEER. 48 HOUR NOTICE WILL BE REQUIRED BY THE CITY AND AFFECTED PROPERTY OWNERS PRIOR TO ANY CLOSURE.
- CAL-OSHA PERMITS SHALL BE REQUIRED FOR ANY TRENCH WORK OVER 5' IN DEPTH. EVIDENCE MUST BE PRESENTED TO THE CITY PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL NOT OPEN MORE TRENCH THAN CAN BE COVERED UPON COMPLETION OF DAYS CONSTRUCTION ACTIVITIES. TRENCH LEFT OPEN DURING THE HOURS OF DARKNESS OR OVER A WEEKEND SHALL BE FENCED WITH 6 FOOT CHAIN LINK FENCING AND PROPERLY LIGHTED.
- IMMEDIATELY FOLLOWING REMOVAL OF EXISTING PAVEMENT, DIKES OR CURBS AND/OR CUB AND GUTTER THE CONTRACTOR SHALL DILIGENTLY PURSUE THIS PORTION OF WORK UNTIL COMPLETION.
- IF ASPHALT CONCRETE IS TO BE PLACED DIRECTLY ON SUB-GRADE OF ROAD OR DRAINAGE FACILITIES, A SOIL STERILANT REGISTERED BY THE E.P.A. FOR USE UNDER A.C. AND P.C.C SHALL BE UNIFORMLY APPLIED AT MANUFACTURER'S RECOMMENDED RATE FOR THE FULL PAVEMENT WIDTH PRIOR TO PAVING.
- SAN BERNARDINO COUNTY, DEPARTMENT OF PUBLIC WORKS APPROVAL DOES NOT INCLUDE WATER OR SEWER SYSTEM OR ESTIMATE OF QUANTITIES.

**100% SUBMITTAL  
NOT FOR CONSTRUCTION**  
MARCH 16, 2006

BENCH MARK: ELEV: 957.72  
BRASS DISK STAMPED NO. 701.12  
1969 IN CURBSIDE STATE STREET  
UNDER CENTRAL AVENUE  
OVERCROSSING ABOUT 4.8' EAST  
OF A DOOR NEAR CENTER OF  
THE OVERCROSSING

Underground Service Alert  
Call: TOLL FREE  
1-800-422-4133

PROFESSIONAL ENGINEER  
G. J. NASCIMENTO  
No. C 44871  
Exp. 3/31/06  
CIVIL  
STATE OF CALIFORNIA

**LAN LIM & NASCIMENTO ENG. CORP.**  
1887 BUSINESS CENTER DR. STE 6  
SAN BERNARDINO, CA 92408

G. J. NASCIMENTO P.E. No. C 44871  
MY LICENSE EXPIRES 3-31-06

DATE

LAN ENG JOB NO. COF0202

COUNTY OF SAN BERNARDINO  
DEPARTMENT OF PUBLIC WORKS

DRAWN BY DESIGNED BY PROJ. ENGR. RECOMMENDED / APPROVED BY

SUBMITTED BY ASSISTANT DIRECTOR DATE

DATE DATE

CHIEF DESIGN ENGINEER DATE DIRECTOR OF PUBLIC WORKS DATE

MARK	REVISIONS	BY	APPR.	DATE

APPROVED \_\_\_\_\_ 2005

MICHAEL HUDSON, P.E.  
CITY ENGINEER, CITY OF MONTCLAIR  
REGISTERED CIVIL ENGINEER NO. \_\_\_\_\_  
MY LICENSE EXPIRES \_\_\_\_\_

DRAWN BY: ESG

CHECKED BY: NS

RECOMMENDED BY: \_\_\_\_\_

CITY OF MONTCLAIR  
DEVELOPMENT SERVICES DEPARTMENT

MONTE VISTA AVENUE  
GRADE SEPARATION

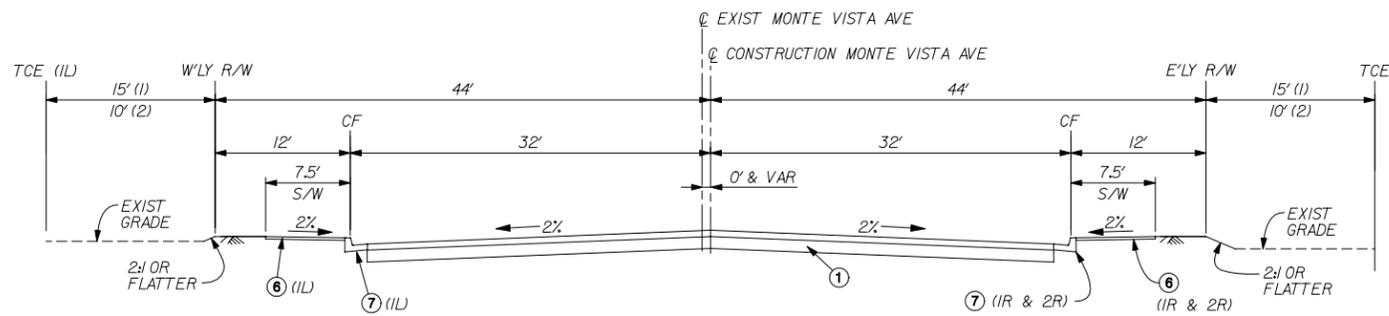
TITLE SHEET

CITY FILE NO. \_\_\_\_\_

DRAWING NO. \_\_\_\_\_

SHEET 1 OF 82 SHEETS





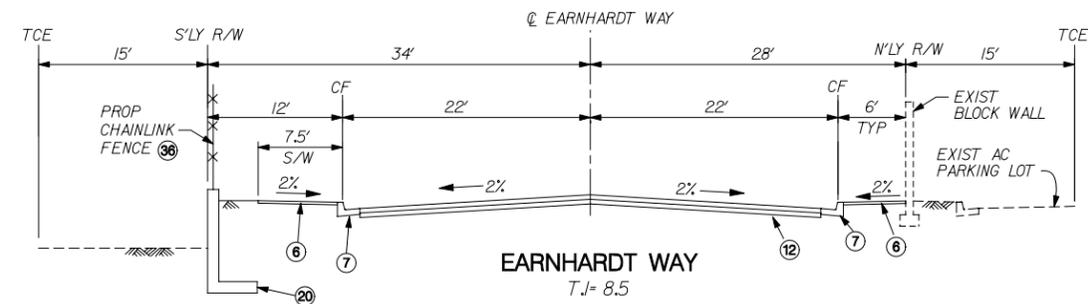
**MONTE VISTA AVENUE**

(1L) BEG STA 100+00.00

(1) STA 96+97.13 TO STA 102+69.39  
 (2) STA 118+50.00 TO STA 120+00.00

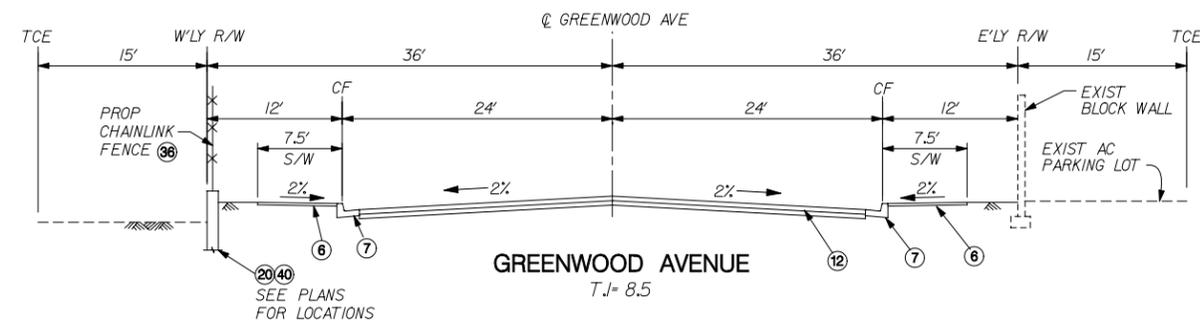
(1R) END STA 102+87.63  
 (2R) END STA 119+81.34

T.J.= 11.0



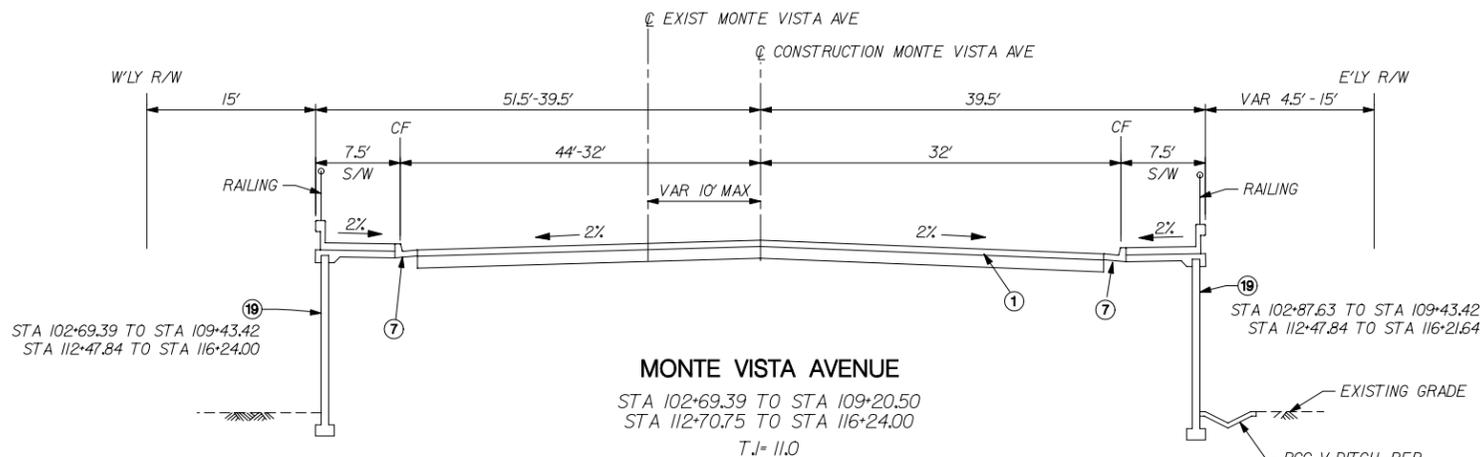
**EARNHARDT WAY**

T.J.= 8.5



**GREENWOOD AVENUE**

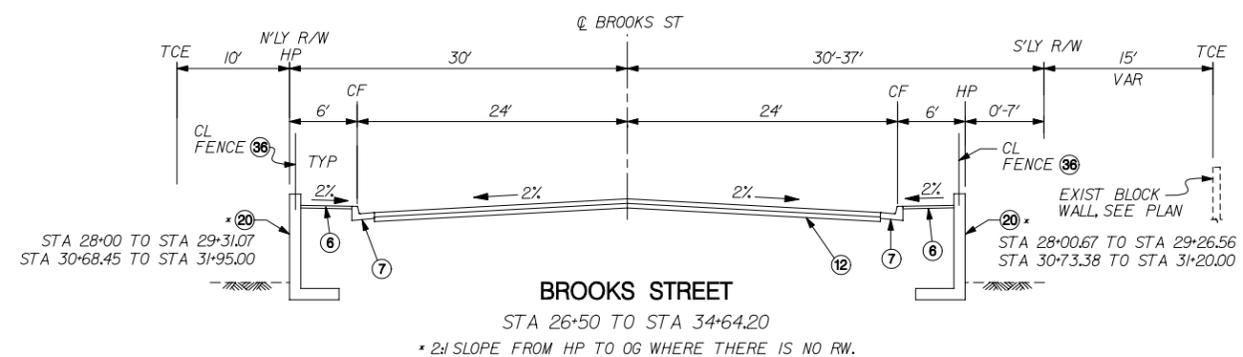
T.J.= 8.5



**MONTE VISTA AVENUE**

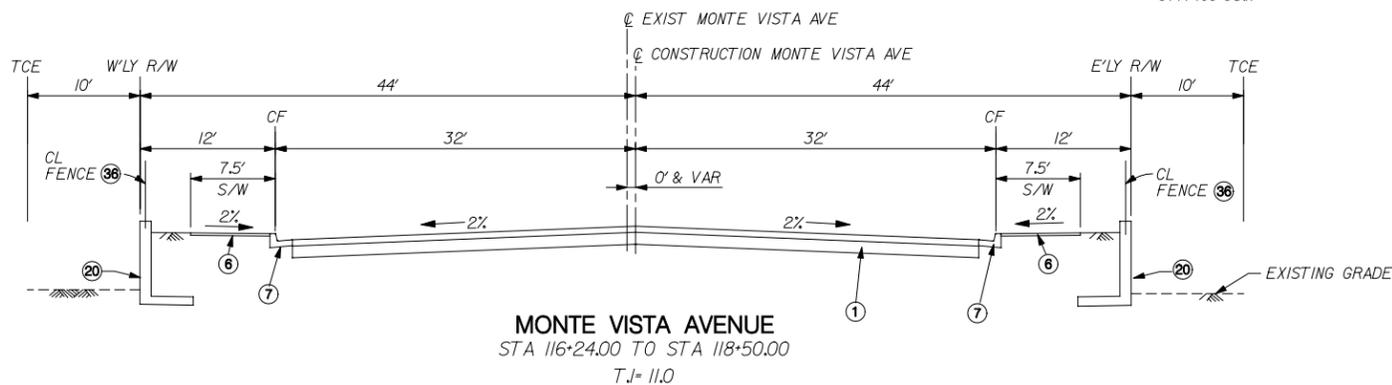
STA 102+69.39 TO STA 109+20.50  
 STA 112+70.75 TO STA 116+24.00

T.J.= 11.0



**BROOKS STREET**

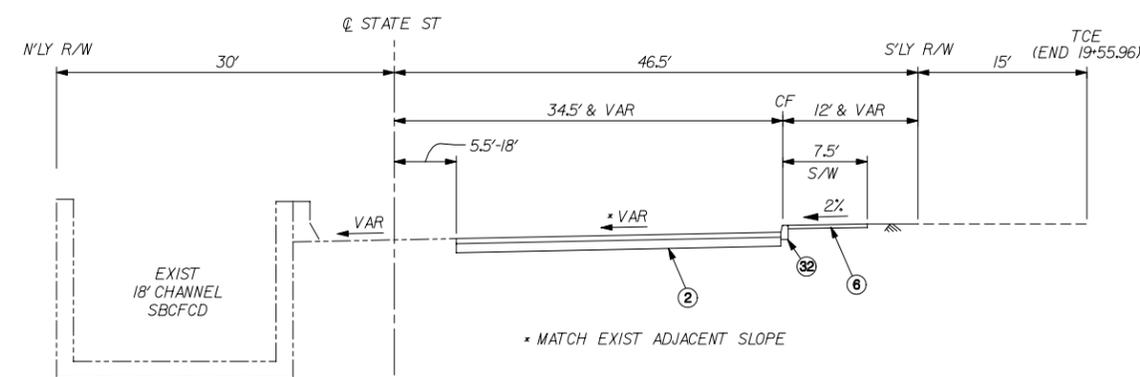
STA 26+50 TO STA 34+64.20  
 \* 2:1 SLOPE FROM HP TO OG WHERE THERE IS NO RW.



**MONTE VISTA AVENUE**

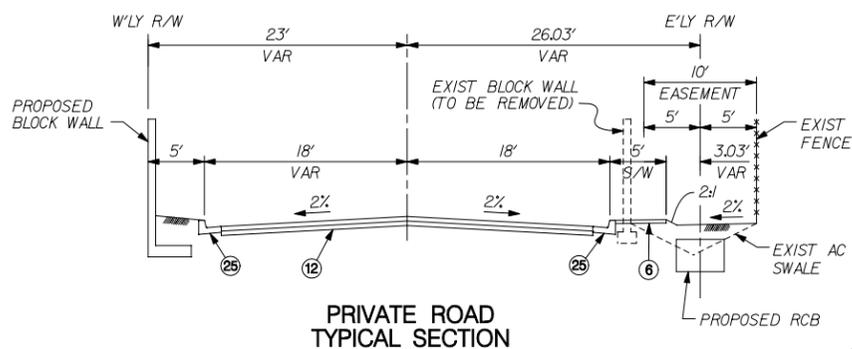
STA 116+24.00 TO STA 118+50.00

T.J.= 11.0



**STATE STREET**

STA 14+87.12 TO STA 22+85.00  
 T.J.= 9.0

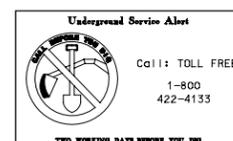


**PRIVATE ROAD TYPICAL SECTION**

NOTE:  
 SEE "STREET CONSTRUCTION NOTES", SHEET 2 FOR DENOTATIONS OF CONSTRUCTION NO.

ABBREVIATION:  
 TCE - TEMPORARY CONSTRUCTION EASEMENT

**100% SUBMITTAL NOT FOR CONSTRUCTION**  
 MARCH 16, 2006



**LAN LIM & NASCIMENTO ENG. CORP.**  
 1887 BUSINESS CENTER DR. STE 6  
 SAN BERNARDINO, CA 92408

ERIC S. GIRARD, R.C.E., 57288  
 MY LICENSE EXPIRES 12-31-07

DATE \_\_\_\_\_  
 LAN ENG JOB NO. COFM0202

MARK	REVISIONS	BY	APPR.	DATE

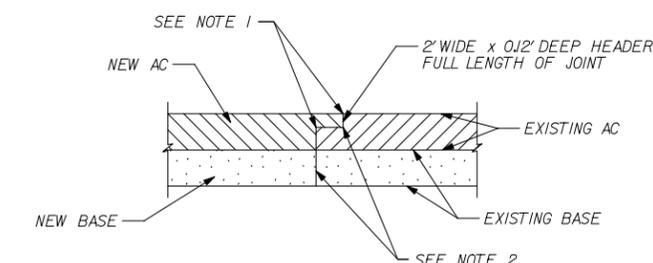
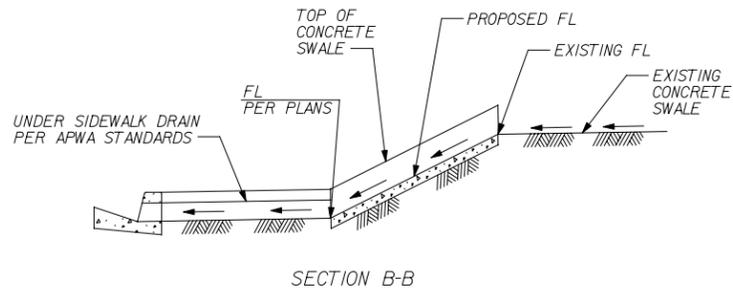
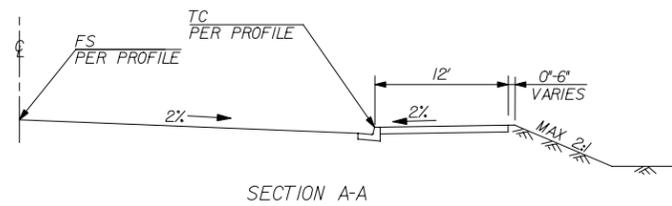
APPROVED _____ 2004
MICHAEL HUDSON, P.E. CITY ENGINEER, CITY OF MONTCLAIR REGISTERED CIVIL ENGINEER NO. _____ MY LICENSE EXPIRES _____
DRAWN BY: ESG
CHECKED BY: NS
RECOMMENDED BY: _____

**CITY OF MONTCLAIR**  
 DEVELOPMENT SERVICES DEPARTMENT

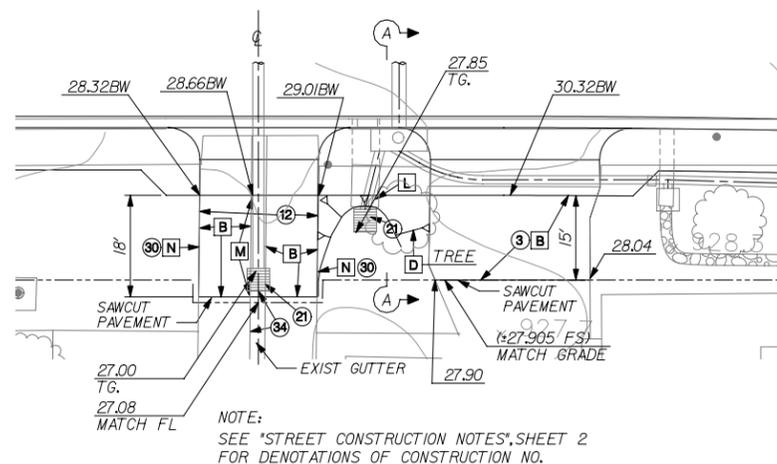
**MONTE VISTA AVENUE**  
 GRADE SEPARATION

TYPICAL SECTIONS

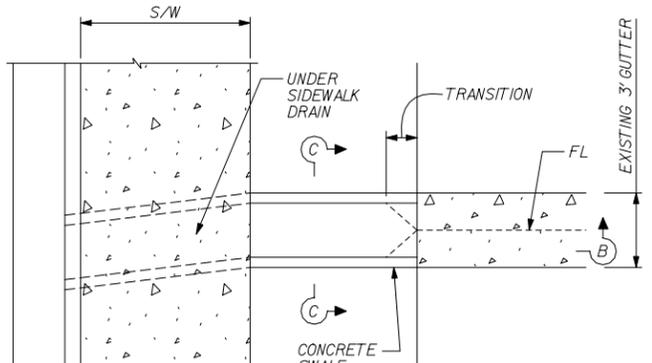
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 DRAWING NO \_\_\_\_\_  
 SHEET 3 OF 82 SHEETS



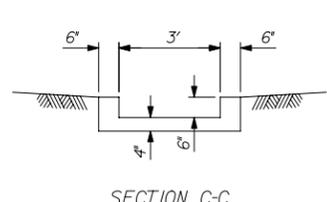
NOTES:  
 1. OVERLAY HEADER AREA TO MATCH NEW AND EXISTING AC SURFACES.  
 2. TACK COAT ENTIRE SURFACE WITH AN 1000 PAVING ASPHALT AT AN APPROXIMATE RATE OF 0.05 GALLON PER SQUARE YARD OR GRADE SS-1H EMULSIFIED ASPHALT AT AN APPROXIMATE RATE 0.05 TO 0.10 GALLON PER SQUARE YARD SHALL BE UNIFORMLY APPLIED UPON THE EXISTING PAVEMENT PRECEDING THE PLACEMENT OF THE AC THE SURFACE SHALL BE FREE OF WATER, FOREIGN MATERIAL OR DUST WHEN TACK COAT IS APPLIED.



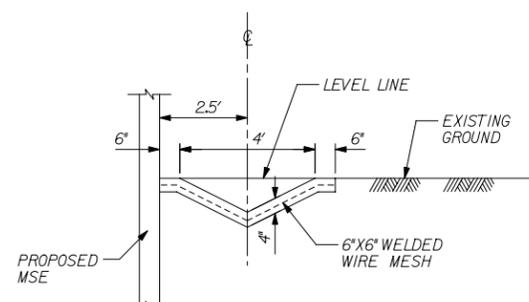
DRIVEWAY  
 MONTE VISTA AVENUE  
 @ STA 102+14.50  
 NO SCALE



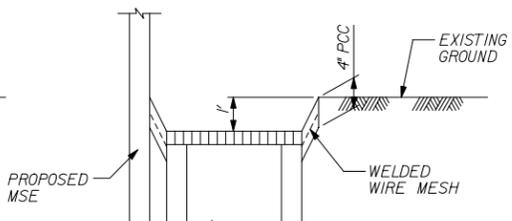
DETAIL 1  
 3' PCC RECTANGULAR CONCRETE SWALE  
 NO SCALE



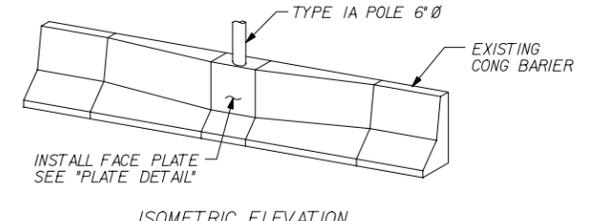
SECTION C-C



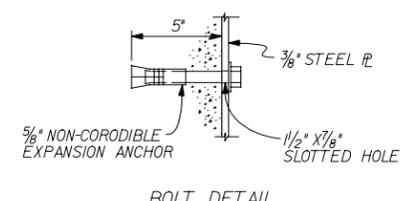
DETAIL 3  
 PCC V-DITCH  
 NO SCALE



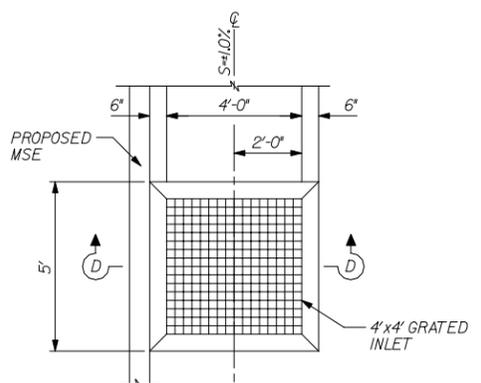
SECTION D-D



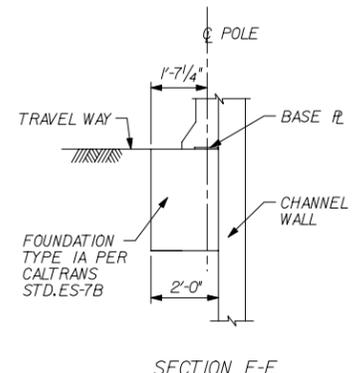
ISOMETRIC ELEVATION



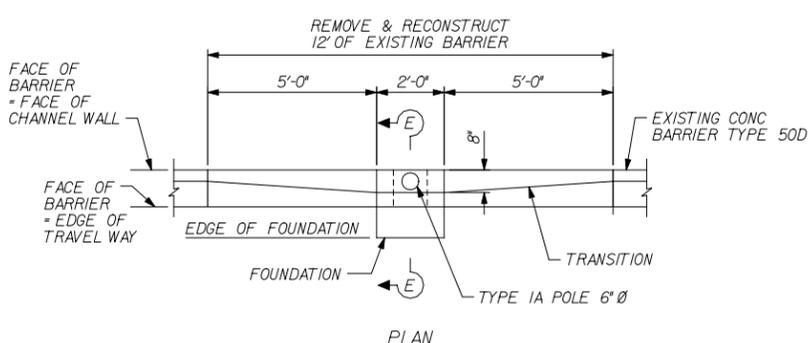
BOLT DETAIL



DETAIL 4  
 INLET APRON DETAIL  
 NO SCALE



SECTION E-E



PLAN

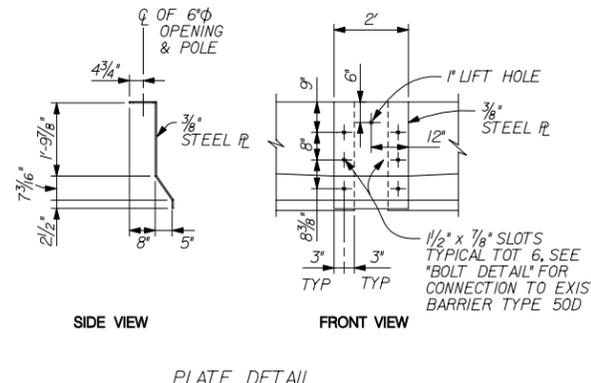
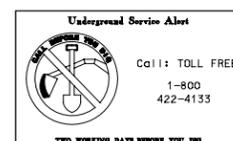


PLATE DETAIL

DETAIL 5  
 CONCRETE BARRIER @ POLE FOUNDATION  
 NO SCALE

100% SUBMITTAL  
 NOT FOR CONSTRUCTION  
 MARCH 16, 2006



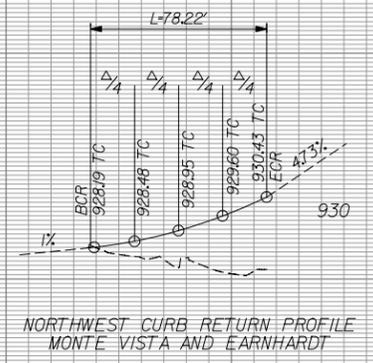
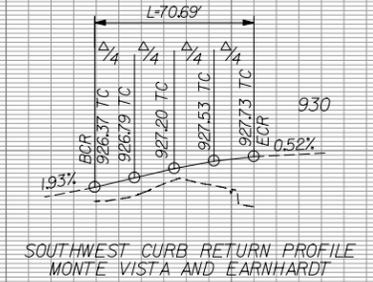
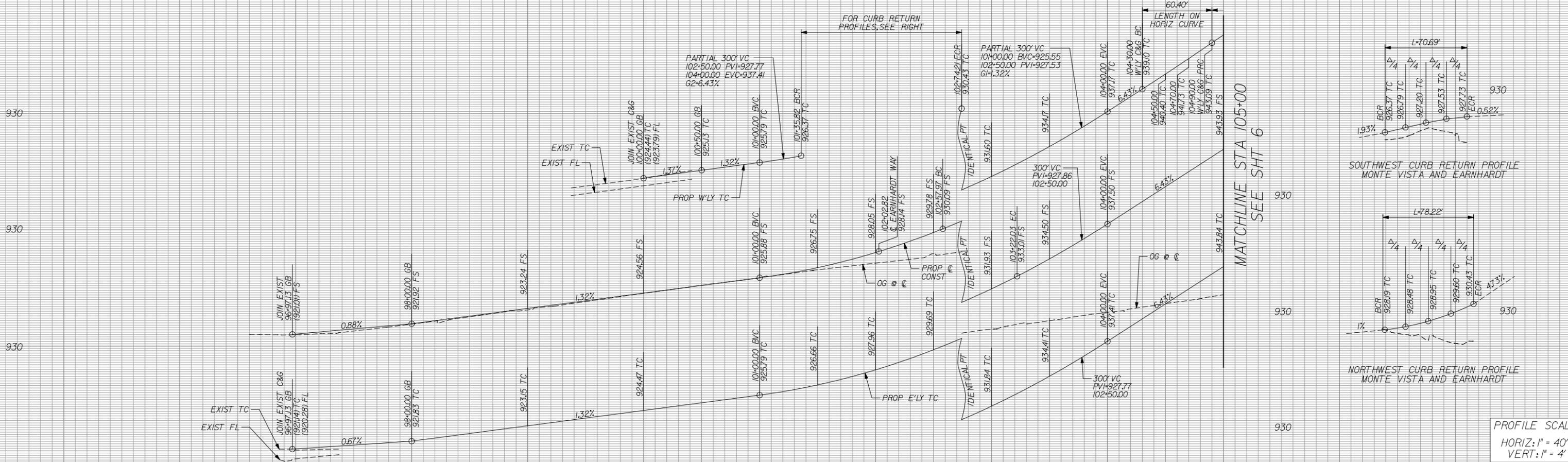
**LAN** LIM & NASCIMENTO ENG. CORP.  
 1887 BUSINESS CENTER DR. STE 6  
 SAN BERNARDINO, CA 92408

ERIC S. GIRARD, P.E., No. C 57288, Exp. 12/31/07  
 DATE \_\_\_\_\_  
 LAN ENG JOB NO. COFM0202

MARK	REVISIONS	BY	APPR.	DATE

APPROVED \_\_\_\_\_ 2004  
 MICHAEL HUDSON, P.E.  
 CITY ENGINEER, CITY OF MONTCLAIR  
 REGISTERED CIVIL ENGINEER NO. \_\_\_\_\_  
 MY LICENSE EXPIRES \_\_\_\_\_  
 DRAWN BY: ESG  
 CHECKED BY: NS  
 RECOMMENDED BY: \_\_\_\_\_

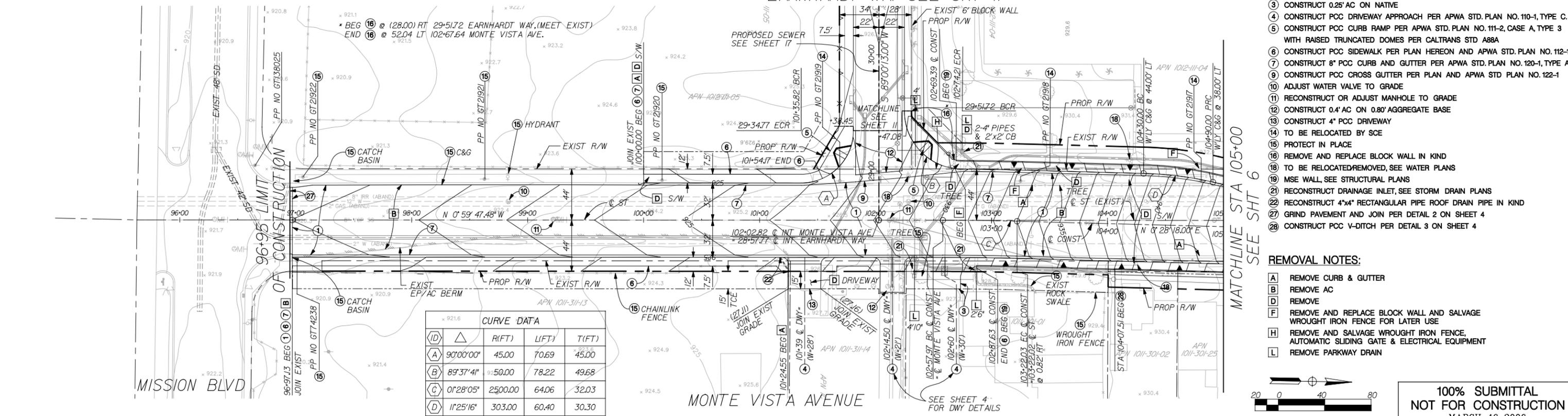
CITY OF MONTCLAIR  
 DEVELOPMENT SERVICES DEPARTMENT  
 MONTE VISTA AVENUE  
 GRADE SEPARATION  
 DETAIL SHEET  
 CITY FILE NO \_\_\_\_\_  
 DRAWING NO \_\_\_\_\_  
 SHEET 4 OF 82 SHEETS



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

96-00 97-00 98-00 99-00 100-00 101-00 102-00 103-00 104-00 105-00

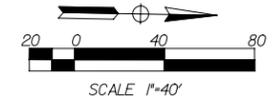
EARNHARDT WAY SEE SHT II



ID	△	R(FT)	LIFT	T(FT)	
A		90'00"00"	45.00	70.69	45.00
B		89'37"41"	92.5000	78.22	49.68
C		0'28'05"	2500.00	64.06	32.03
D		1'25'16"	303.00	60.40	30.30

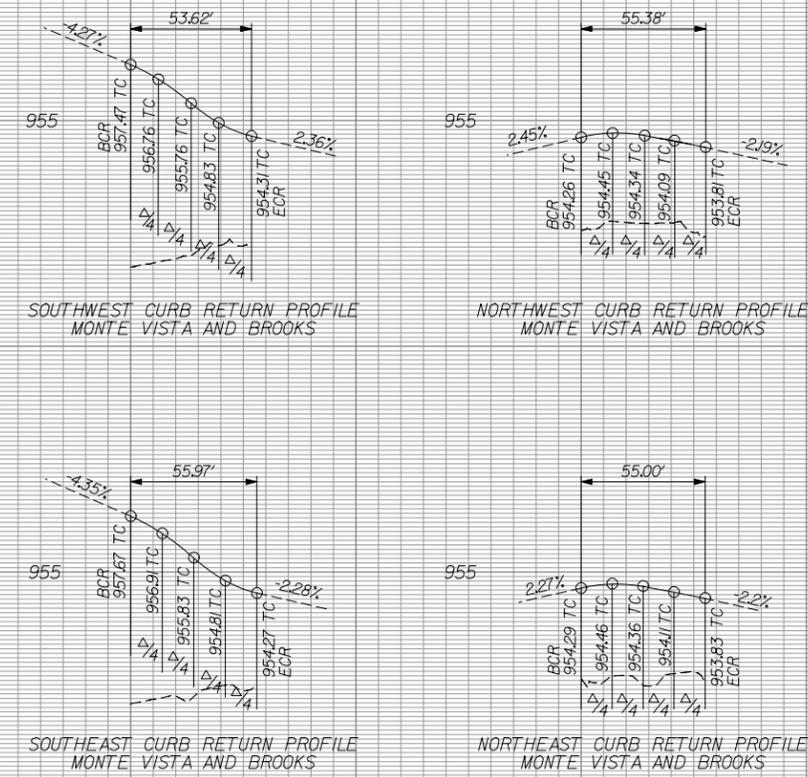
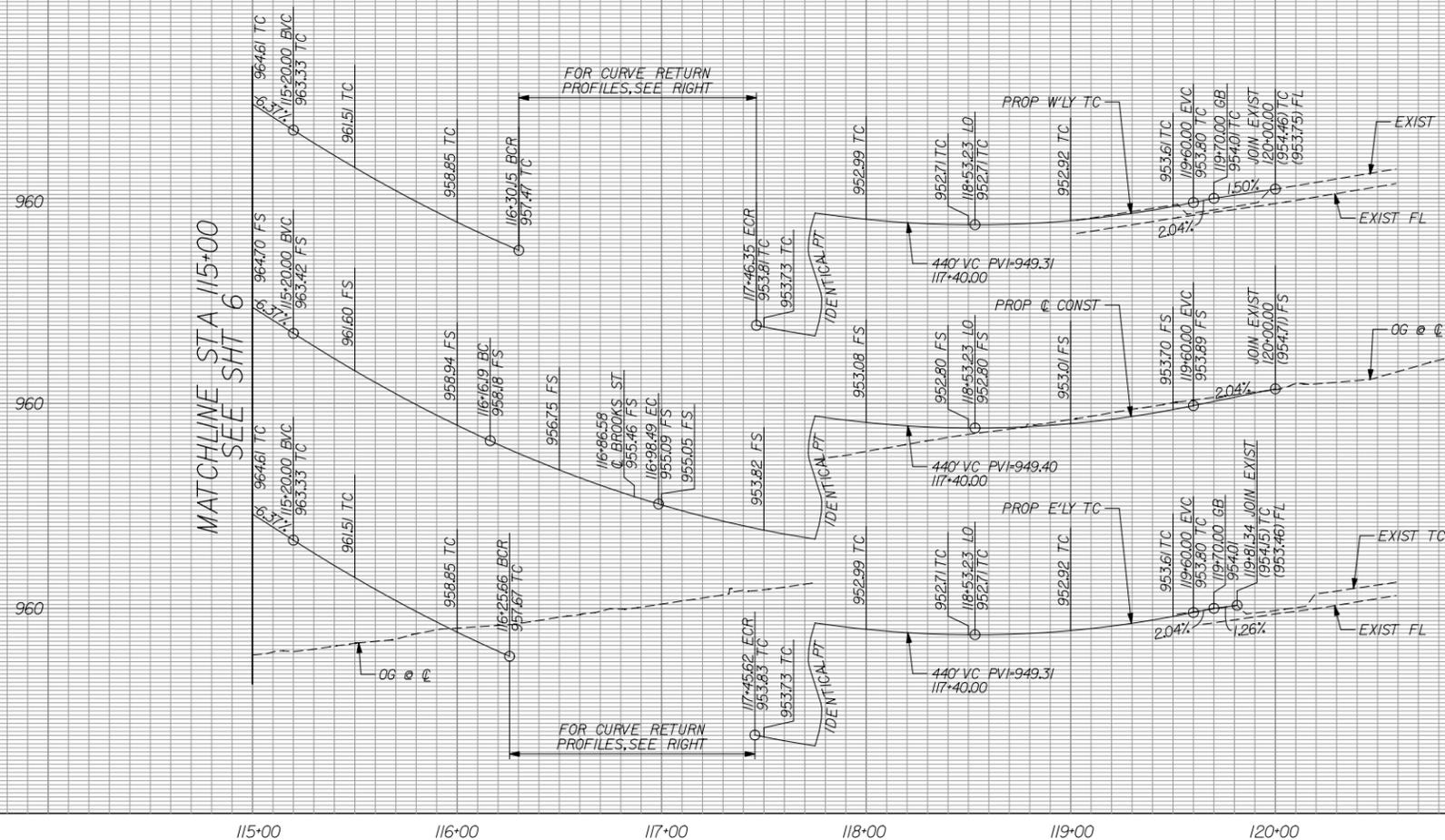
- CONSTRUCTION NOTES**
- CONSTRUCT 0.55' AC ON 1.05' AGGREGATE BASE
  - CONSTRUCT 0.25' AC ON NATIVE
  - CONSTRUCT PCC DRIVEWAY APPROACH PER APWA STD. PLAN NO. 110-1, TYPE C.
  - CONSTRUCT PCC CURB RAMP PER APWA STD. PLAN NO. 111-2, CASE A, TYPE 3 WITH RAISED TRUNCATED DOMES PER CALTRANS STD A88A
  - CONSTRUCT PCC SIDEWALK PER PLAN HEREON AND APWA STD. PLAN NO. 112-1
  - CONSTRUCT 8" PCC CURB AND GUTTER PER APWA STD. PLAN NO. 120-1, TYPE A2
  - CONSTRUCT PCC CROSS GUTTER PER PLAN AND APWA STD PLAN NO. 122-1
  - ADJUST WATER VALVE TO GRADE
  - RECONSTRUCT OR ADJUST MANHOLE TO GRADE
  - CONSTRUCT 0.4' AC ON 0.80' AGGREGATE BASE
  - CONSTRUCT 4" PCC DRIVEWAY
  - TO BE RELOCATED BY SCE
  - PROTECT IN PLACE
  - REMOVE AND REPLACE BLOCK WALL IN KIND
  - TO BE RELOCATED/REMOVED, SEE WATER PLANS
  - MSE WALL, SEE STRUCTURAL PLANS
  - RECONSTRUCT DRAINAGE INLET, SEE STORM DRAIN PLANS
  - RECONSTRUCT 4"x4" RECTANGULAR PIPE ROOF DRAIN PIPE IN KIND
  - GRIND PAVEMENT AND JOIN PER DETAIL 2 ON SHEET 4
  - CONSTRUCT PCC V-DITCH PER DETAIL 3 ON SHEET 4

- REMOVAL NOTES:**
- A REMOVE CURB & GUTTER
  - B REMOVE AC
  - D REMOVE
  - F REMOVE AND REPLACE BLOCK WALL AND SALVAGE WROUGHT IRON FENCE FOR LATER USE
  - H REMOVE AND SALVAGE WROUGHT IRON FENCE, AUTOMATIC SLIDING GATE & ELECTRICAL EQUIPMENT
  - L REMOVE PARKWAY DRAIN



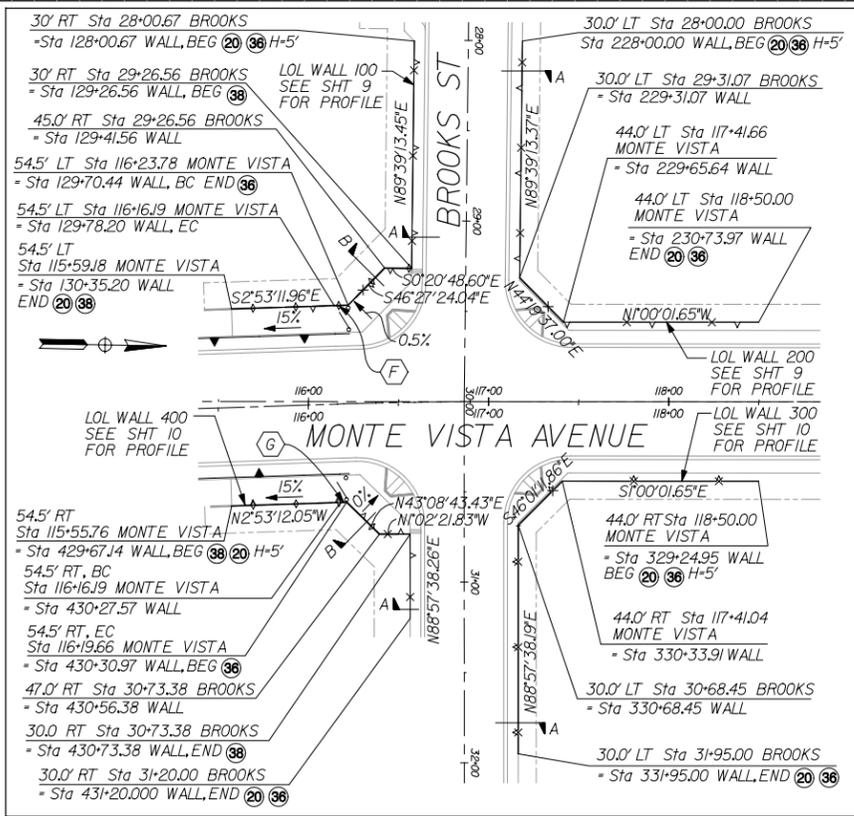
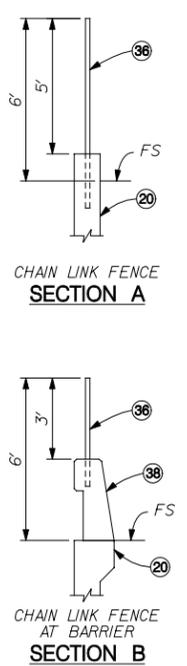
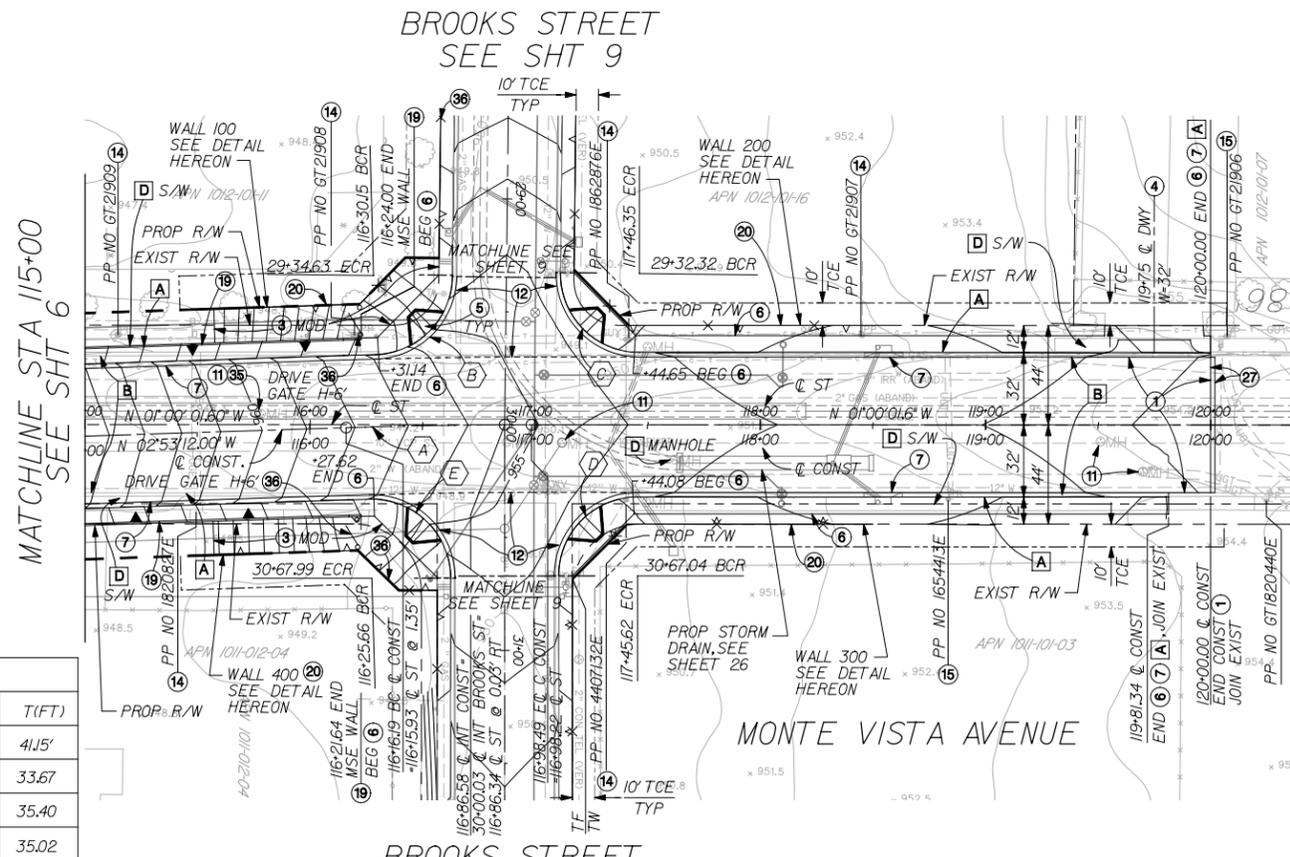
100% SUBMITTAL  
NOT FOR CONSTRUCTION  
MARCH 16, 2006

	<p><b>LAN</b> LIM &amp; NASCIMENTO ENG. CORP. 1887 BUSINESS CENTER DR. STE 6 SAN BERNARDINO, CA 92408</p>	COUNTY OF SAN BERNARDINO DEPARTMENT OF PUBLIC WORKS		APPROVED _____ 2005 MICHAEL HUDSON, P.E. CITY ENGINEER, CITY OF MONTCLAIR REGISTERED CIVIL ENGINEER NO. _____ MY LICENSE EXPIRES _____		CITY OF MONTCLAIR DEVELOPMENT SERVICES DEPARTMENT MONTE VISTA AVENUE GRADE SEPARATION		CITY FILE NO. _____ DRAWING NO. _____			
		ERIC S. GIROD R.C.E. 57288 MY LICENSE EXPIRES 12-31-05		DATE _____		DRAWN BY: ESG CHECKED BY: NS RECOMMENDED BY: _____		STREET IMPROVEMENTS MONTE VISTA AVENUE STA 96+97.00 TO 105+00.00		SHEET 5 OF 82 SHEETS	
LAN ENG JOB NO. C0FM0202		SUBMITTED BY _____ DATE _____		ASSISTANT DIRECTOR _____ DATE _____		CHIEF DESIGN ENGINEER _____ DATE _____		DIRECTOR OF PUBLIC WORKS _____ DATE _____		MARK _____ REVISIONS _____ BY _____ APPR. _____ DATE _____	

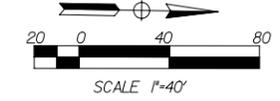


115+00 116+00 117+00 118+00 119+00 120+00

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

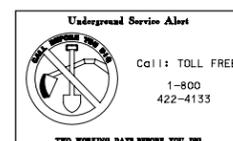


- ### CONSTRUCTION NOTES
- CONSTRUCT 0.55' AC ON 1.05' AGGREGATE BASE
  - CONSTRUCT 0.25' AC ON NATIVE
  - CONSTRUCT 0.40' AC ON NATIVE FOR LANDING AND ACCESS RAMP
  - CONSTRUCT PCC DRIVEWAY APPROACH PER APWA STD. PLAN NO. 110-1, TYPE C.
  - CONSTRUCT PCC CURB RAMP PER APWA STD. PLAN NO. 111-2, CASE A, TYPE 3 WITH
  - CONSTRUCT PCC SIDEWALK PER PLAN HEREON AND APWA STD. PLAN NO. 112-1
  - CONSTRUCT 8" PCC CURB AND GUTTER PER APWA STD. PLAN NO. 120-1, TYPE A2
  - ADJUST WATER VALVE TO GRADE
  - RECONSTRUCT OR ADJUST MANHOLE TO GRADE
  - CONSTRUCT 0.4' AC ON 0.80' AGGREGATE BASE
  - TO BE RELOCATED BY SCE
  - PROTECT IN PLACE
  - MSE WALL, SEE STRUCTURAL PLANS
  - CONSTRUCT RETAINING WALL TYPE 5 (MOD) PER CALTRANS STD. B3-7
  - GRIND PAVEMENT AND JOIN PER DETAIL 2 ON SHEET 4
  - CONSTRUCT SAFTY LEDGE PER APWA PLAN 330-1
  - INSTALL CHAIN LINK FENCE PER APWA STD 600-1
  - CONSTRUCT CONCRETE BARRIER TYPE 736 CALTRANS STD. B11-66
- ### REMOVAL NOTES:
- A** REMOVE CURB & GUTTER
  - B** REMOVE AC
  - D** REMOVE



CURVE DATA				
ID	△	R(FT)	LIFT)	T(FT)
A	153°10'	2500.00	82.30	41.5'
B	87°46'46"	35.00	53.62	33.67
C	90°39'15"	35.00	55.38	35.40
D	90°2'20"	35.00	55.00	35.02
E	91°37'49"	35.00	55.97	36.01
F	01°0'26"	2554.50	7.76	3.88
G	0°04'47"	2445.50	3.40	1.70

BROOKS STREET  
SEE SHT 9



**LAN LIM & NASCIMENTO ENG. CORP.**  
1887 BUSINESS CENTER DR. STE 6  
SAN BERNARDINO, CA 92408

APPROVED: \_\_\_\_\_ 2004  
MICHAEL HUDSON, P.E.  
CITY ENGINEER, CITY OF MONTCLAIR  
REGISTERED CIVIL ENGINEER NO. \_\_\_\_\_  
MY LICENSE EXPIRES \_\_\_\_\_

DRAWN BY: ESG  
CHECKED BY: NS  
RECOMMENDED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

LAN ENG JOB NO. COFM0202

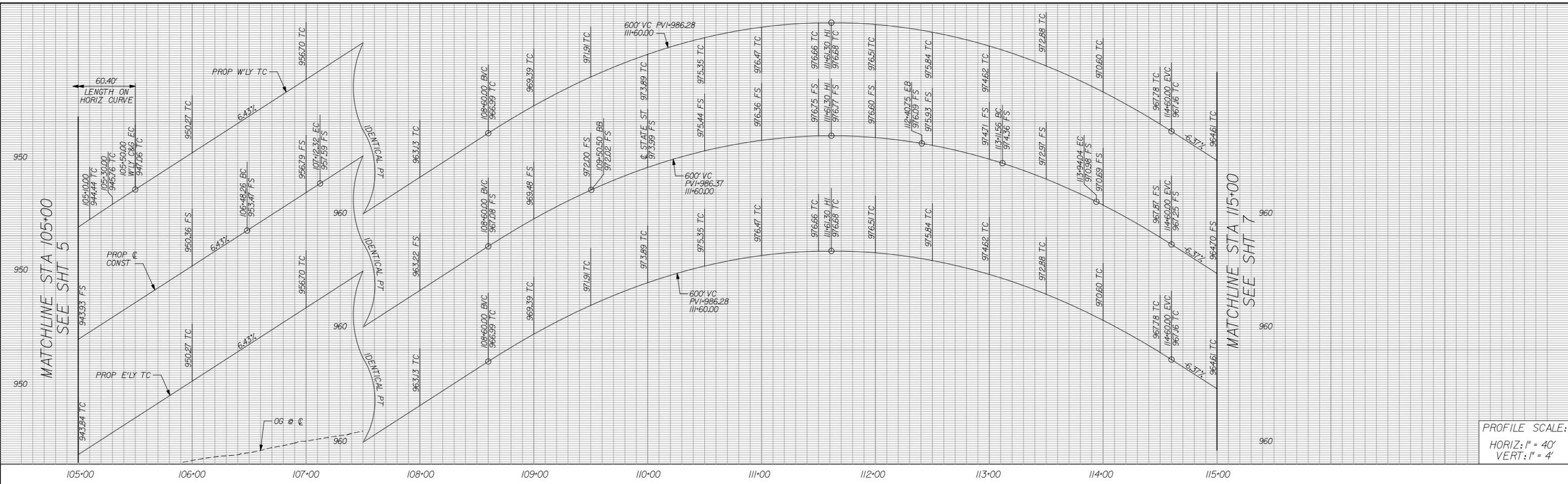
**CITY OF MONTCLAIR**  
DEVELOPMENT SERVICES DEPARTMENT

**MONTA VISTA AVENUE**  
GRADE SEPARATION

STREET IMPROVEMENTS  
**MONTA VISTA AVENUE**  
STA 115+00.00 TO 120+00.00

CITY FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SHEET 7 OF 82 SHEETS

**100% SUBMITTAL**  
**NOT FOR CONSTRUCTION**  
MARCH 16, 2006



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

MATCHLINE STA 105+00  
SEE SHT 5

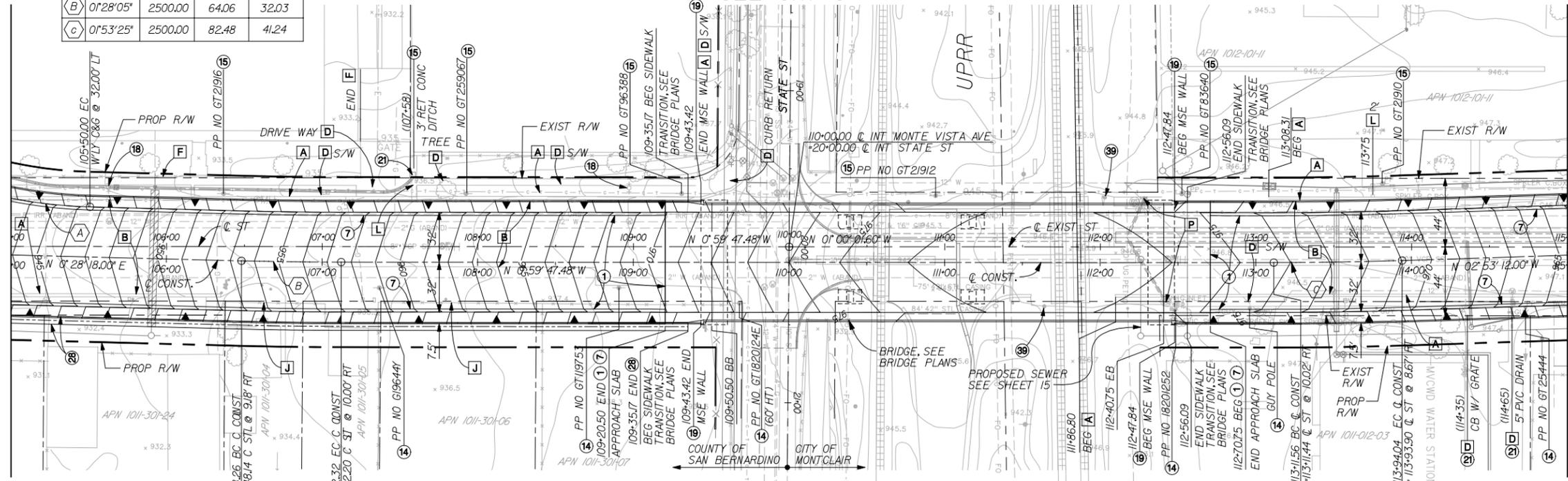
MATCHLINE STA 115+00  
SEE SHT 7

CURVE DATA				
ID	△	R(FT)	L(FT)	T(FT)
A	11°25'16"	303.00	60.40	30.30
B	01°28'05"	2500.00	64.06	32.03
C	01°53'25"	2500.00	82.48	41.24

STATE STREET  
SEE SHT 8

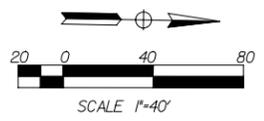
MATCHLINE STA 105+00  
SEE SHT 5

MATCHLINE STA 115+00  
SEE SHT 7

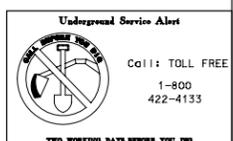


- CONSTRUCTION NOTES**
- ① CONSTRUCT 0.55' AC ON 1.05' AGGREGATE BASE
  - ⑦ CONSTRUCT 8" PCC CURB AND GUTTER PER APWA STD. PLAN NO. 120-1, TYPE A2
  - ⑭ TO BE RELOCATED BY SCE
  - ⑮ PROTECT IN PLACE
  - ⑯ TO BE RELOCATED/REMOVED, SEE WATER PLANS
  - ⑰ MSE WALL, SEE STRUCTURAL PLANS
  - ⑱ RECONSTRUCT DRAINAGE INLET, SEE STORM DRAIN PLANS
  - ⑳ CONSTRUCT PCC V-DITCH PER DETAIL 3 ON SHEET 4
  - ㉑ REMODEL AND/OR RELOCATE RR CROSSING GATE BY UPRR

- REMOVAL NOTES:**
- A REMOVE CURB & GUTTER
  - B REMOVE AC
  - D REMOVE
  - F REMOVE AND REPLACE BLOCK WALL WITH SALVAGED WROUGHT IRON FENCE
  - J REMOVE CHAINLINK FENCE
  - L REMOVE PARKWAY DRAIN
  - P REMOVE EXISTING CATCH BASIN



100% SUBMITTAL  
NOT FOR CONSTRUCTION  
MARCH 16, 2006



**LAN LIM & NASCIMENTO ENG. CORP.**  
1887 BUSINESS CENTER DR. STE 6  
SAN BERNARDINO, CA 92408

ERIC S. GIROD R.C.E. 57288  
MY LICENSE EXPIRES 12-31-06

LAN ENG JOB NO. COF0202

COUNTY OF SAN BERNARDINO  
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: DESIGNED BY: PROJ. ENGR. RECOMMENDED /APPROVED BY:

SUBMITTED BY: ASSISTANT DIRECTOR DATE:

CHIEF DESIGN ENGINEER DATE: DIRECTOR OF PUBLIC WORKS DATE:

MARK	REVISIONS	BY	APPR.	DATE

APPROVED \_\_\_\_\_ 2005

MICHAEL HUDSON, P.E.  
CITY ENGINEER, CITY OF MONTCLAIR  
REGISTERED CIVIL ENGINEER NO. \_\_\_\_\_  
MY LICENSE EXPIRES \_\_\_\_\_

DRAWN BY: ESG

CHECKED BY: NS

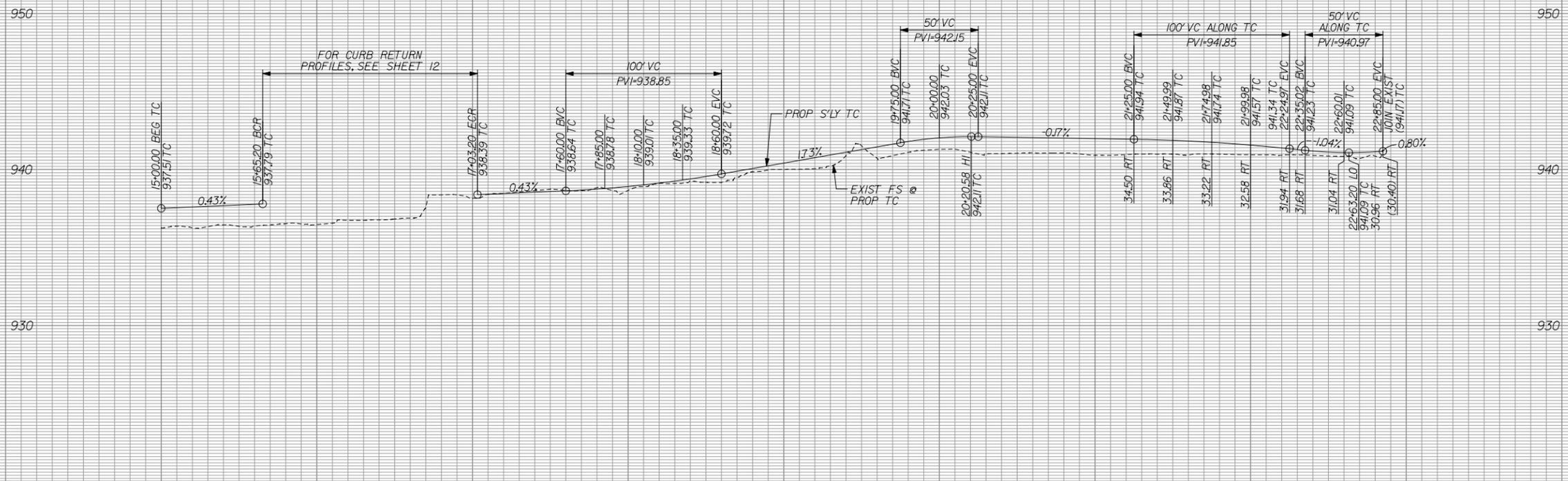
RECOMMENDED BY: \_\_\_\_\_

CITY OF MONTCLAIR  
DEVELOPMENT SERVICES DEPARTMENT

MONTE VISTA AVENUE  
GRADE SEPARATION

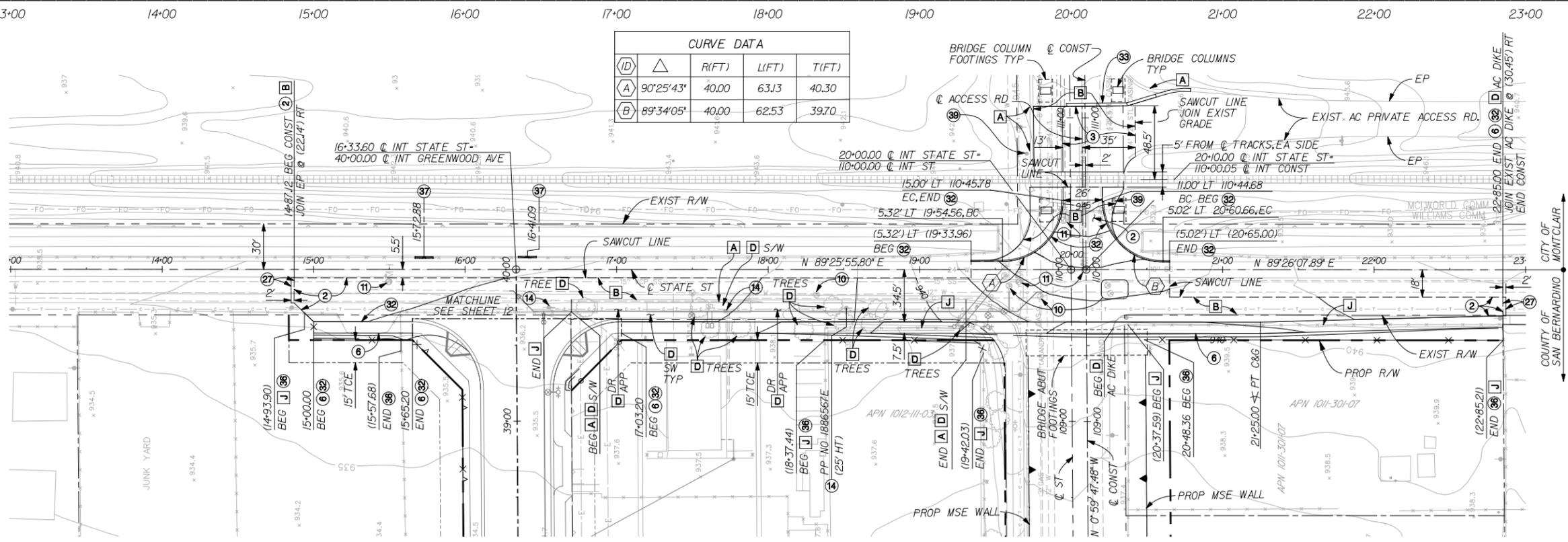
STREET IMPROVEMENTS  
MONTE VISTA AVENUE  
STA 105+00.00 TO 115+00.00

CITY FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SHEET 6 OF 82 SHEETS



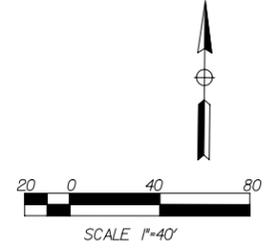
PROFILE SCALE:  
 HORIZ: 1" = 40'  
 VERT: 1" = 4'

CURVE DATA				
ID	△	R(FT)	L(FT)	T(FT)
A	90°25'43"	40.00	63.13	40.30
B	89°34'05"	40.00	62.53	39.70



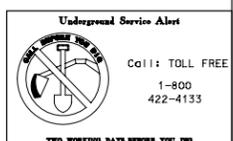
- CONSTRUCTION NOTES**
- ② CONSTRUCT 0.55' AC ON 1.05' AGGREGATE BASE
  - ③ CONSTRUCT 0.45' AC ON 0.80' AGGREGATE BASE
  - ④ CONSTRUCT PCC SIDEWALK PER PLAN HEREON AND APWA STD. PLAN NO. 112-1
  - ⑩ ADJUST WATER VALVE TO GRADE
  - ⑪ RECONSTRUCT OR ADJUST MANHOLE TO GRADE
  - ⑭ TO BE RELOCATED BY SCE
  - ⑮ PROTECT IN PLACE
  - ⑳ CONSTRUCT RETAINING WALL TYPE 5 (MOD) PER CALTRANS STD. B3-7
  - ㉑ GRIND PAVEMENT AND JOIN PER DETAIL 2 ON SHEET 4
  - ㉒ CONSTRUCT 8" AC CURB PER APWA STD. PLAN NO. 120-1, TYPE D1
  - ㉓ INSTALL RAILING (TYPE K) PER CALTRANS STD T3
  - ㉔ INSTALL CHAIN LINK FENCE PER APWA STD 600-1
  - ㉕ REMOVE EXISTING & RECONSTRUCT CONCRETE BARRIER TO ACCOMMODATE POLE CONSTRUCTION PER DETAIL 5 ON SHEET 4
  - ㉖ REMODEL AND/OR RELOCATE RR CROSSING GATE BY UPRR

- REMOVAL NOTES:**
- A REMOVE CURB & GUTTER
  - B REMOVE AC
  - D REMOVE
  - J REMOVE CHAINLINK FENCE



GREENWOOD AVE SEE SHT 12      STATE STREET      MONTE VISTA AVE SEE SHT 6

100% SUBMITTAL  
 NOT FOR CONSTRUCTION  
 MARCH 16, 2006



**LAN LIM & NASCIMENTO ENG. CORP.**  
 1887 BUSINESS CENTER DR. STE 6  
 SAN BERNARDINO, CA 92408

ERIC S. GIROD R.C.E. 57288  
 MY LICENSE EXPIRES 12-31-05

LAN ENG JOB NO. COF0202

COUNTY OF SAN BERNARDINO  
 DEPARTMENT OF PUBLIC WORKS

DRAWN BY: DESIGNED BY: PROJ. ENGR. RECOMMENDED /APPROVED BY:

SUBMITTED BY: ASSISTANT DIRECTOR DATE

CHIEF DESIGN ENGINEER DATE DIRECTOR OF PUBLIC WORKS DATE

MARK	REVISIONS	BY	APPR.	DATE

APPROVED \_\_\_\_\_ 2005

MICHAEL HUDSON, P.E.  
 CITY ENGINEER, CITY OF MONTCLAIR  
 REGISTERED CIVIL ENGINEER NO. \_\_\_\_\_  
 MY LICENSE EXPIRES \_\_\_\_\_

DRAWN BY: ESG

CHECKED BY: NS

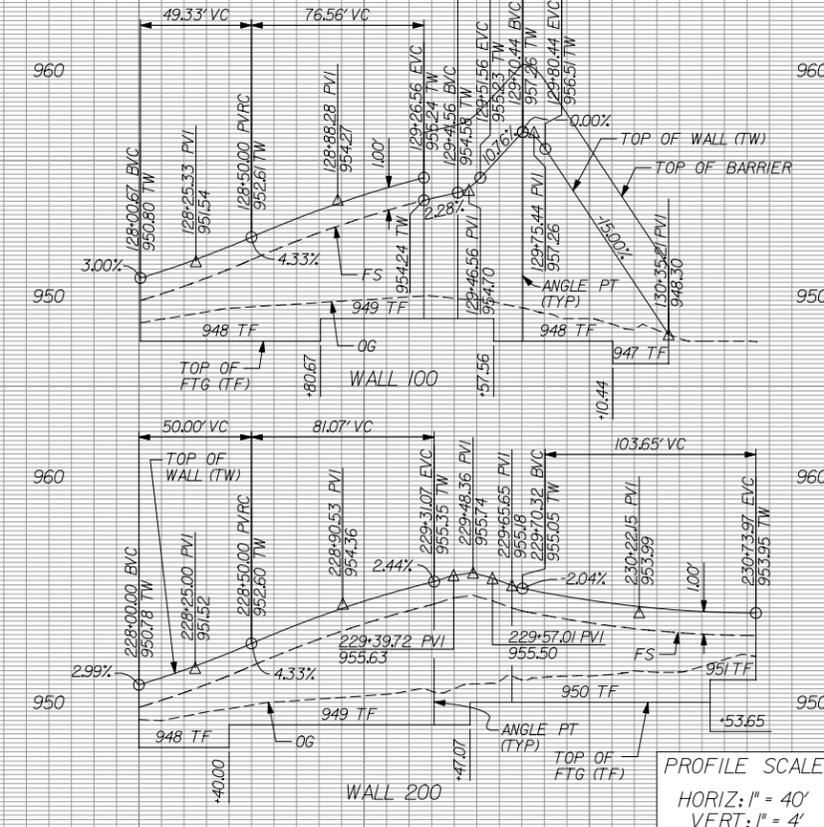
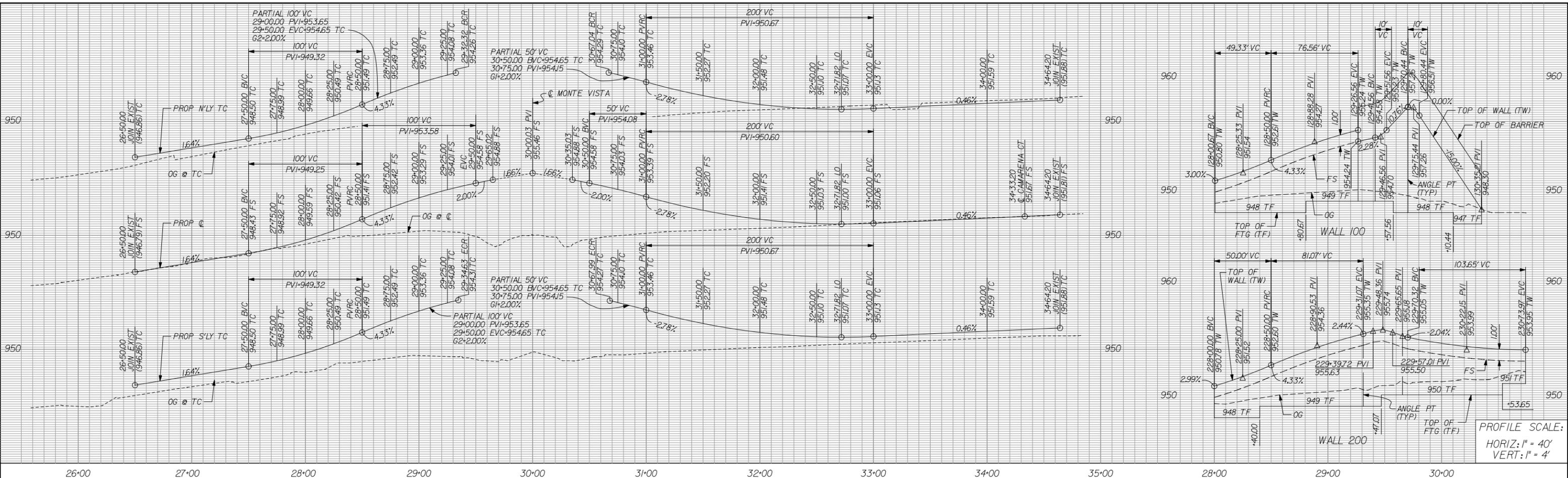
RECOMMENDED BY: \_\_\_\_\_

CITY OF MONTCLAIR  
 DEVELOPMENT SERVICES DEPARTMENT

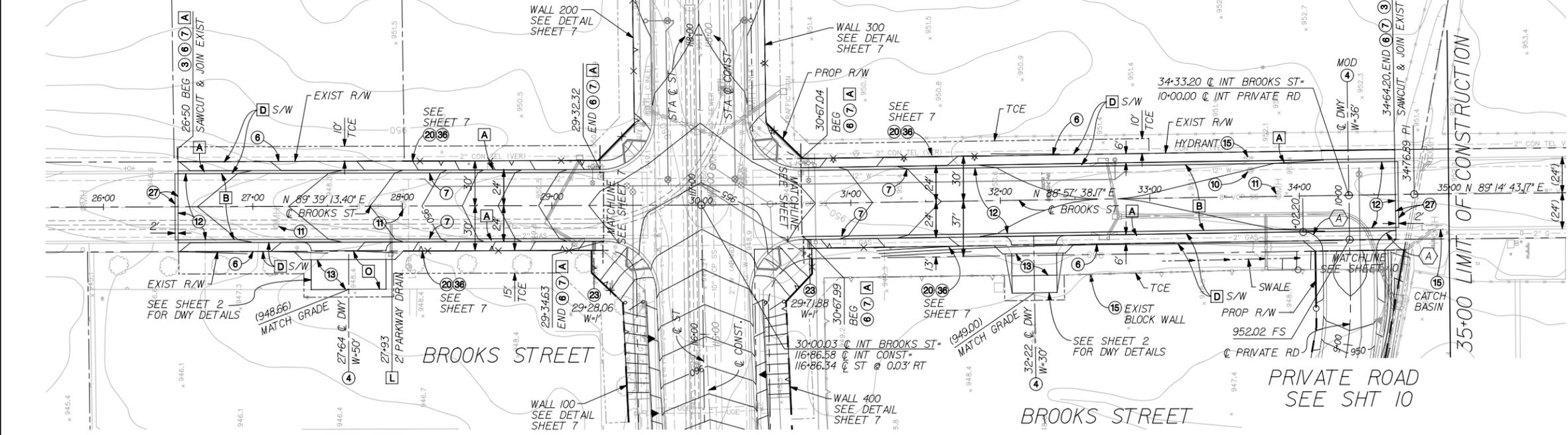
MONTE VISTA AVENUE  
 GRADE SEPARATION

STREET IMPROVEMENTS  
 STATE STREET  
 STA 14+87.00 TO 22+85.00

CITY FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SHEET 8 OF 82 SHEETS

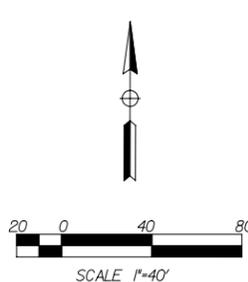


26-00 27-00 28-00 29-00 30-00 31-00 32-00 33-00 34-00 35-00 28-00 29-00 30-00



- CONSTRUCTION NOTES**
- (4) CONSTRUCT PCC DRIVEWAY APPROACH PER APWA STD. PLAN NO. 110-1, TYPE C
  - (6) CONSTRUCT PCC SIDEWALK PER PLAN HEREON AND APWA STD. PLAN NO. 112-1
  - (7) CONSTRUCT 8" PCC CURB AND GUTTER PER APWA STD. PLAN NO. 120-1, TYPE A2
  - (10) ADJUST WATER VALVE TO GRADE
  - (11) RECONSTRUCT OR ADJUST MANHOLE TO GRADE
  - (12) CONSTRUCT 0.4' AC ON 0.80' AGGREGATE BASE
  - (13) CONSTRUCT 4" PCC DRIVEWAY
  - (16) PROTECT IN PLACE
  - (20) CONSTRUCT RETAINING WALL TYPE 5 (MOD) PER CALTRANS STD. B3-7
  - (23) CONSTRUCT PARKWAY DRAIN PER APWA STD. PLAN 151-1
  - (27) GRIND PAVEMENT AND JOIN PER DETAIL 2 ON SHEET 4
  - (36) INSTALL CHAIN LINK FENCE PER APWA STD 600-1

- REMOVAL NOTES:**
- A REMOVE CURB & GUTTER
  - B REMOVE AC
  - C RELOCATE
  - D REMOVE
  - L REMOVE PARKWAY DRAIN
  - O REMOVE CONCRETE



MONTE VISTA AVE  
SEE SHT 7

CURVE DATA				
ID	△	R(FT)	L(FT)	T(FT)
A		90'00"00"	13.00	20.42
				13.00

**100% SUBMITTAL  
NOT FOR CONSTRUCTION**  
MARCH 16, 2006



**LAN LIM & NASCIMENTO ENG. CORP.**  
1887 BUSINESS CENTER DR. STE 6  
SAN BERNARDINO, CA 92408

Eric S. Girard, P.E., C.E., 57288  
MY LICENSE EXPIRES 12-31-07

DATE \_\_\_\_\_

LAN ENG JOB NO. COFM0202

MARK	REVISIONS	BY	APPR.	DATE

APPROVED \_\_\_\_\_ 2004

MICHAEL HUDSON, P.E.  
CITY ENGINEER, CITY OF MONTCLAIR  
REGISTERED CIVIL ENGINEER NO. \_\_\_\_\_  
MY LICENSE EXPIRES \_\_\_\_\_

DRAWN BY: ESG

CHECKED BY: NS

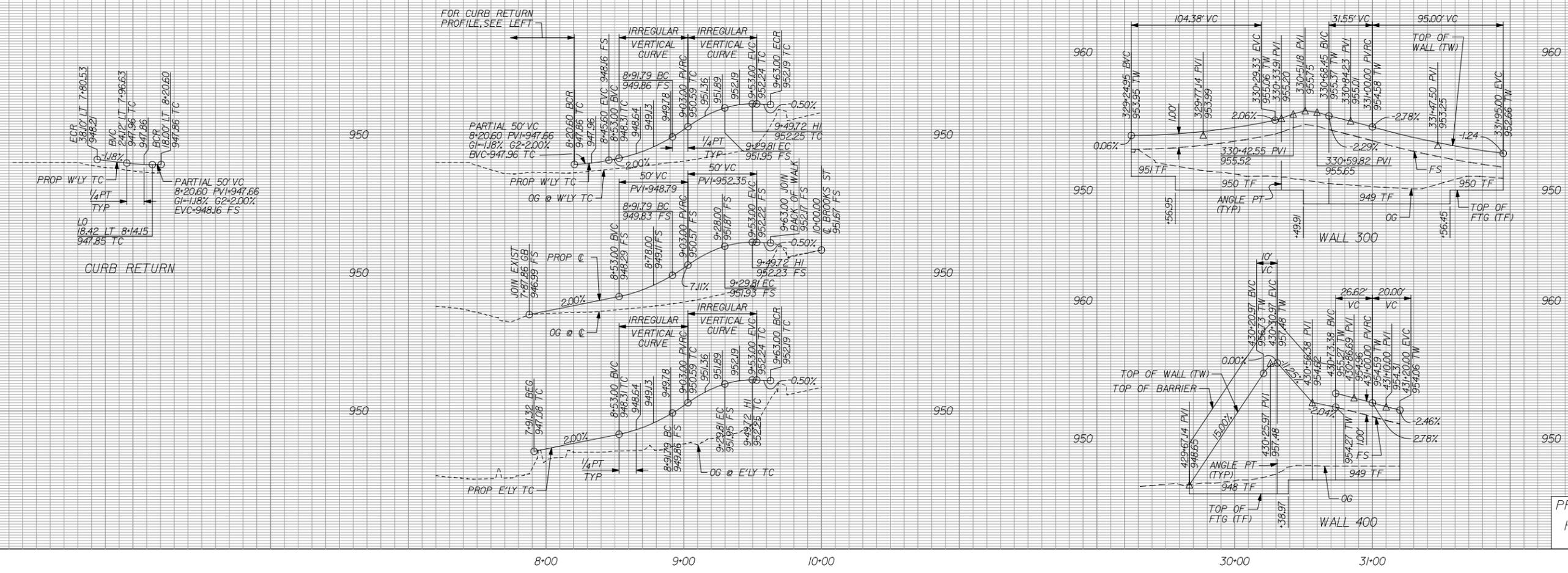
RECOMMENDED BY: \_\_\_\_\_

**CITY OF MONTCLAIR**  
DEVELOPMENT SERVICES DEPARTMENT

**MONTE VISTA AVENUE  
GRADE SEPARATION**

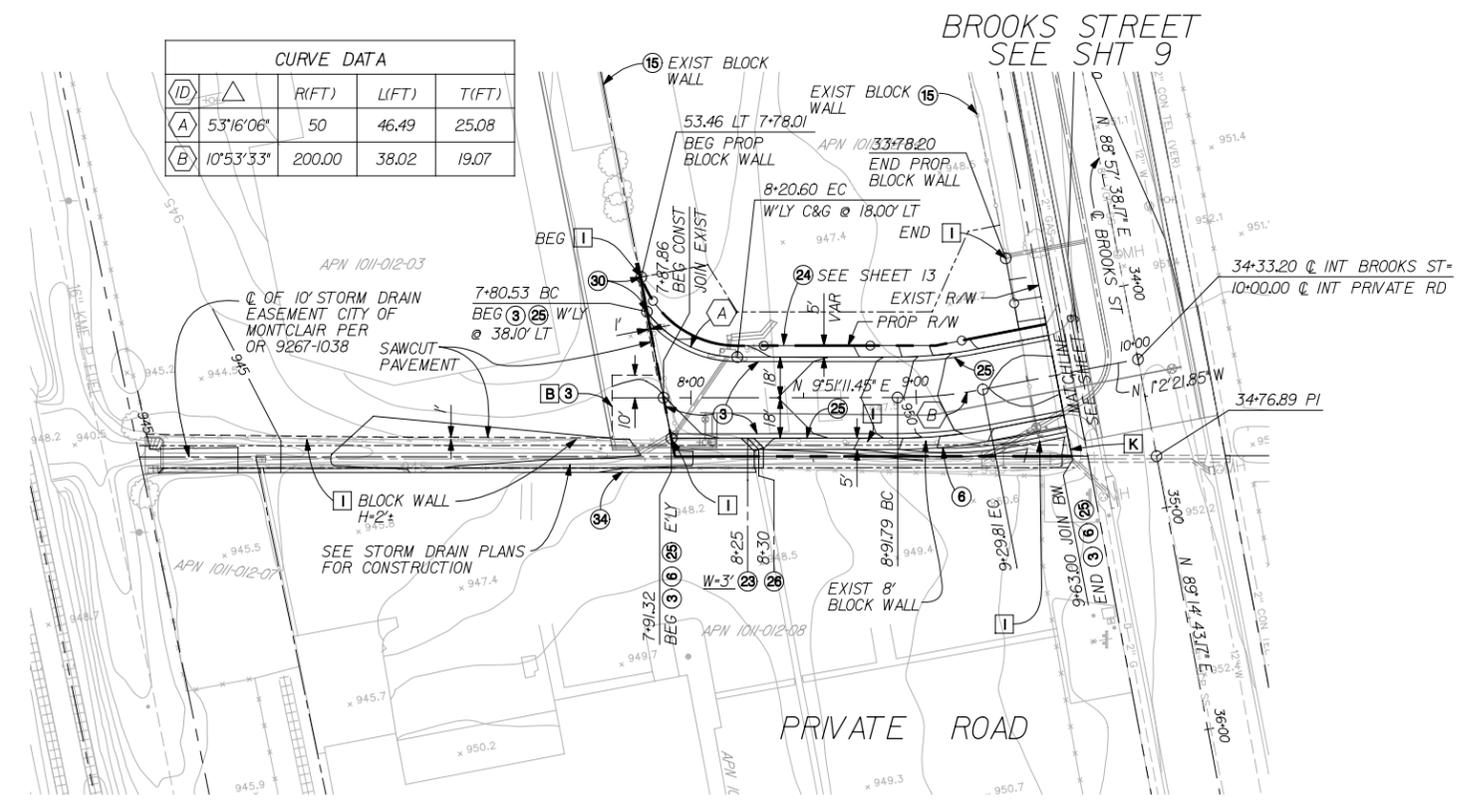
**STREET IMPROVEMENTS  
BROOKS STREET**  
STA 26+50.00 TO 34+64.00

CITY FILE NO \_\_\_\_\_  
DRAWING NO \_\_\_\_\_  
SHEET 9 OF 82 SHEETS



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

CURVE DATA			
ID	R(FT)	L(FT)	T(FT)
A	53'16"06"	50	46.49
B	10'53'33"	200.00	38.02

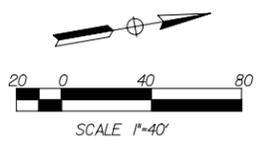


**CONSTRUCTION NOTES**

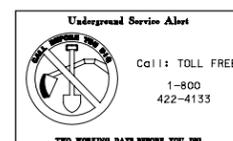
- ③ CONSTRUCT 0.25' AC ON NATIVE
- ⑥ CONSTRUCT PCC SIDEWALK PER PLAN HEREON AND APWA STD. PLAN NO. 112-1
- ⑩ PROTECT IN PLACE
- ⑫ CONSTRUCT PARKWAY DRAIN PER APWA STD. PLAN 151-1
- ⑬ CONSTRUCT 8" MASONRY BLOCK WALL
- ⑮ CONSTRUCT 6" PCC CURB AND GUTTER PER APWA STD. PLAN NO. 120-1 TYPE A2
- ⑯ CONSTRUCT 3" PCC SWALE PER DETAIL 1 ON SHEET 4
- ⑰ CONSTRUCT 6" PCC CURB PER APWA STD. PLAN NO. 120-1, TYPE A1
- ⑳ CONSTRUCT CONCRETE RIBBON GUTTER PER CITY OF MONTCLAIR STD 106

**REMOVAL NOTES:**

- B REMOVE AC
- I REMOVE BLOCK WALL
- K REMOVE EXISTING CONCRETE HEADWALL



100% SUBMITTAL  
 NOT FOR CONSTRUCTION  
 MARCH 16, 2006



**LAN** LIM & NASCIMENTO ENG. CORP.  
 1887 BUSINESS CENTER DR. STE 6  
 SAN BERNARDINO, CA 92408

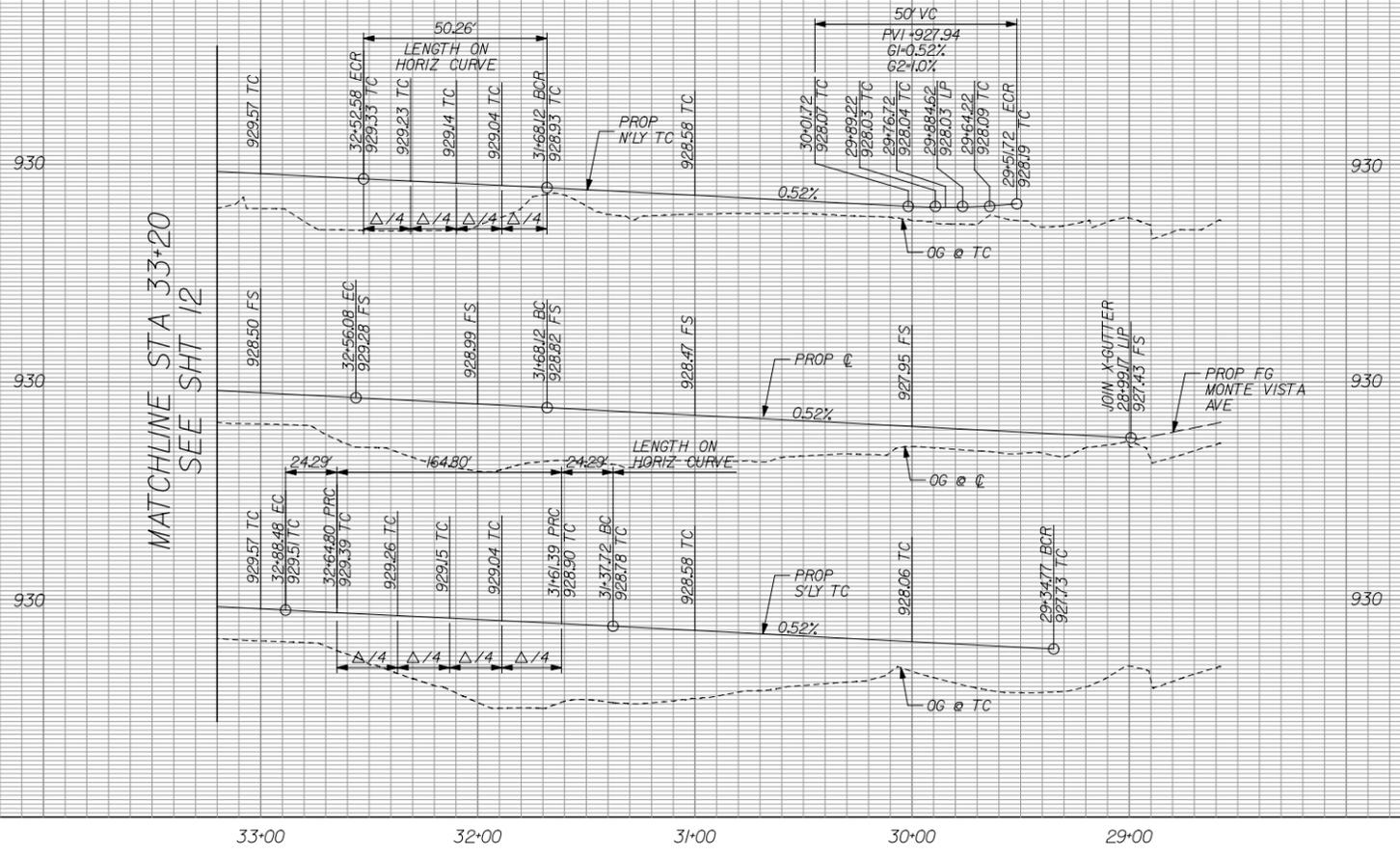
LAN ENG JOB NO. COFM0202  
 DATE \_\_\_\_\_

MARK	REVISIONS	BY	APPR.	DATE

APPROVED \_\_\_\_\_ 2004  
 MICHAEL HUDSON, P.E.  
 CITY ENGINEER, CITY OF MONTCLAIR  
 REGISTERED CIVIL ENGINEER NO. \_\_\_\_\_  
 MY LICENSE EXPIRES \_\_\_\_\_  
 DRAWN BY: ESG  
 CHECKED BY: NS  
 RECOMMENDED BY: \_\_\_\_\_

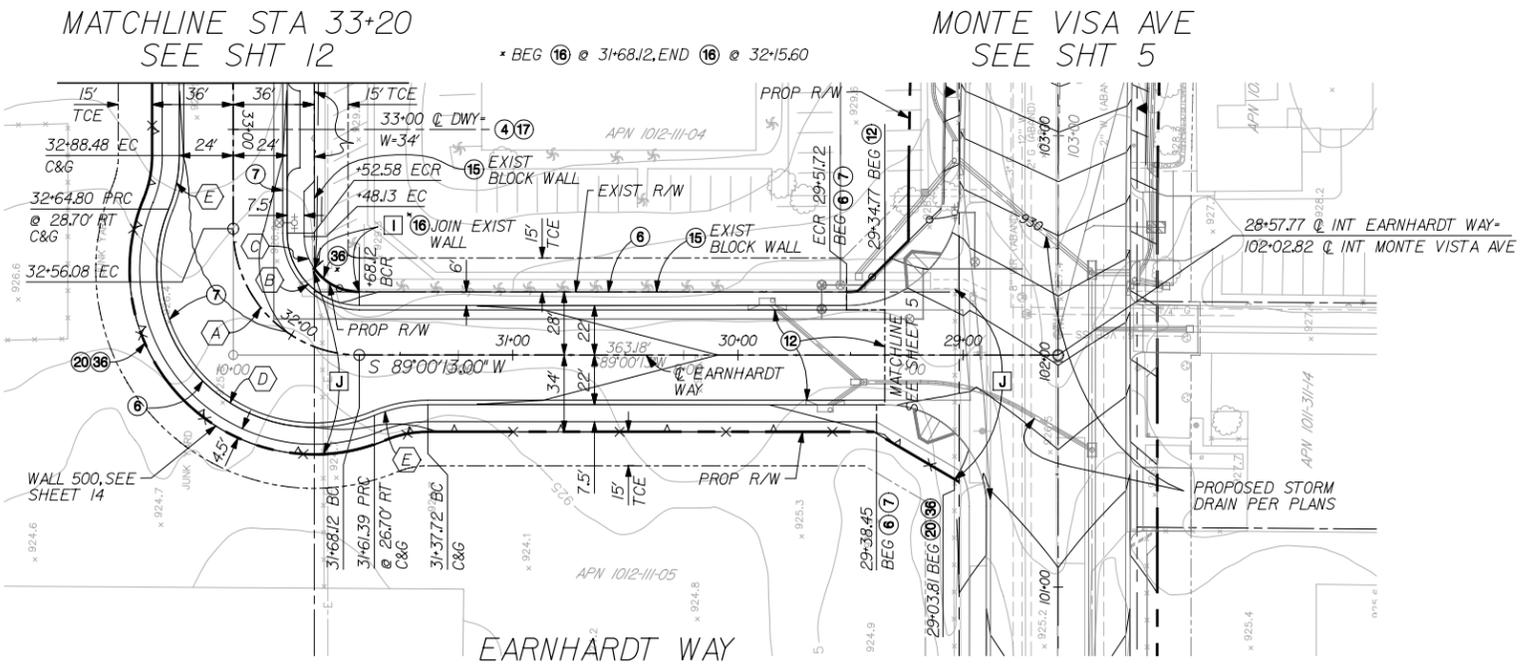
CITY OF MONTCLAIR  
 DEVELOPMENT SERVICES DEPARTMENT  
 MONTE VISTA AVENUE  
 GRADE SEPARATION  
 STREET IMPROVEMENTS  
 PRIVATE ROAD  
 STA 7+87.00 TO 9+63.00

CITY FILE NO \_\_\_\_\_  
 DRAWING NO \_\_\_\_\_  
 SHEET 10 OF 82 SHEETS



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

CURVE DATA				
ID	Δ	R(FT)	L(FT)	T(FT)
A	89°59'47"	56.00	87.96	56.00
B	89°59'47"	32.00	50.26	32.00
C	89°59'47"	24.50	38.48	24.50
D	134°53'16"	70.00	164.80	168.53
E	22°26'44"	62.00	24.29	12.30

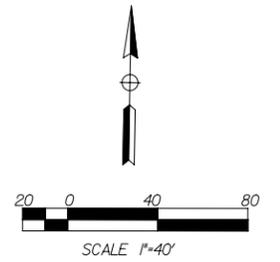


**CONSTRUCTION NOTES**

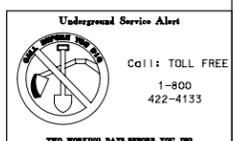
- ④ CONSTRUCT PCC DRIVEWAY APPROACH PER APWA STD. PLAN NO. 110-1, TYPE C, AND DETAIL ON SHEET 4
- ⑥ CONSTRUCT PCC SIDEWALK PER PLAN HEREON AND APWA STD. PLAN NO. 112-1
- ⑦ CONSTRUCT 8" PCC CURB AND GUTTER PER APWA STD. PLAN NO. 120-1, TYPE A2
- ⑫ CONSTRUCT 0.4' AC ON 0.80' AGGREGATE BASE
- ⑮ PROTECT IN PLACE
- ⑰ REMOVE AND REPLACE BLOCK WALL IN KIND
- ⑰ INSTALL SALVAGED SLIDING WROUGHT IRON FENCE GATE AND ELECTRICAL EQUIPMENT
- ⑳ CONSTRUCT RETAINING WALL TYPE 5 (MOD) PER CALTRANS STD. B3-7
- ㉓ INSTALL CHAIN LINK FENCE PER APWA STD 600-1

**REMOVAL NOTES:**

- I REMOVE BLOCK WALL
- J REMOVE CHAINLINK FENCE



100% SUBMITTAL  
 NOT FOR CONSTRUCTION  
 MARCH 16, 2006



**LAN LIM & NASCIMENTO ENG. CORP.**  
 1887 BUSINESS CENTER DR. STE 6  
 SAN BERNARDINO, CA 92408

ERIC S. GIROD R.C.E. 57288  
 MY LICENSE EXPIRES 12-31-05

LAN ENG JOB NO. COFM0202

COUNTY OF SAN BERNARDINO  
 DEPARTMENT OF PUBLIC WORKS

DRAWN BY: DESIGNED BY: PROJ. ENGR. RECOMMENDED /APPROVED BY:

SUBMITTED BY: ASSISTANT DIRECTOR DATE:

CHIEF DESIGN ENGINEER DATE: DIRECTOR OF PUBLIC WORKS DATE:

MARK	REVISIONS	BY	APPR.	DATE

APPROVED: \_\_\_\_\_ 2005

MICHAEL HUDSON, P.E.  
 CITY ENGINEER, CITY OF MONTCLAIR  
 REGISTERED CIVIL ENGINEER NO. \_\_\_\_\_  
 MY LICENSE EXPIRES \_\_\_\_\_

DRAWN BY: ESG

CHECKED BY: NS

RECOMMENDED BY: \_\_\_\_\_

CITY OF MONTCLAIR  
 DEVELOPMENT SERVICES DEPARTMENT

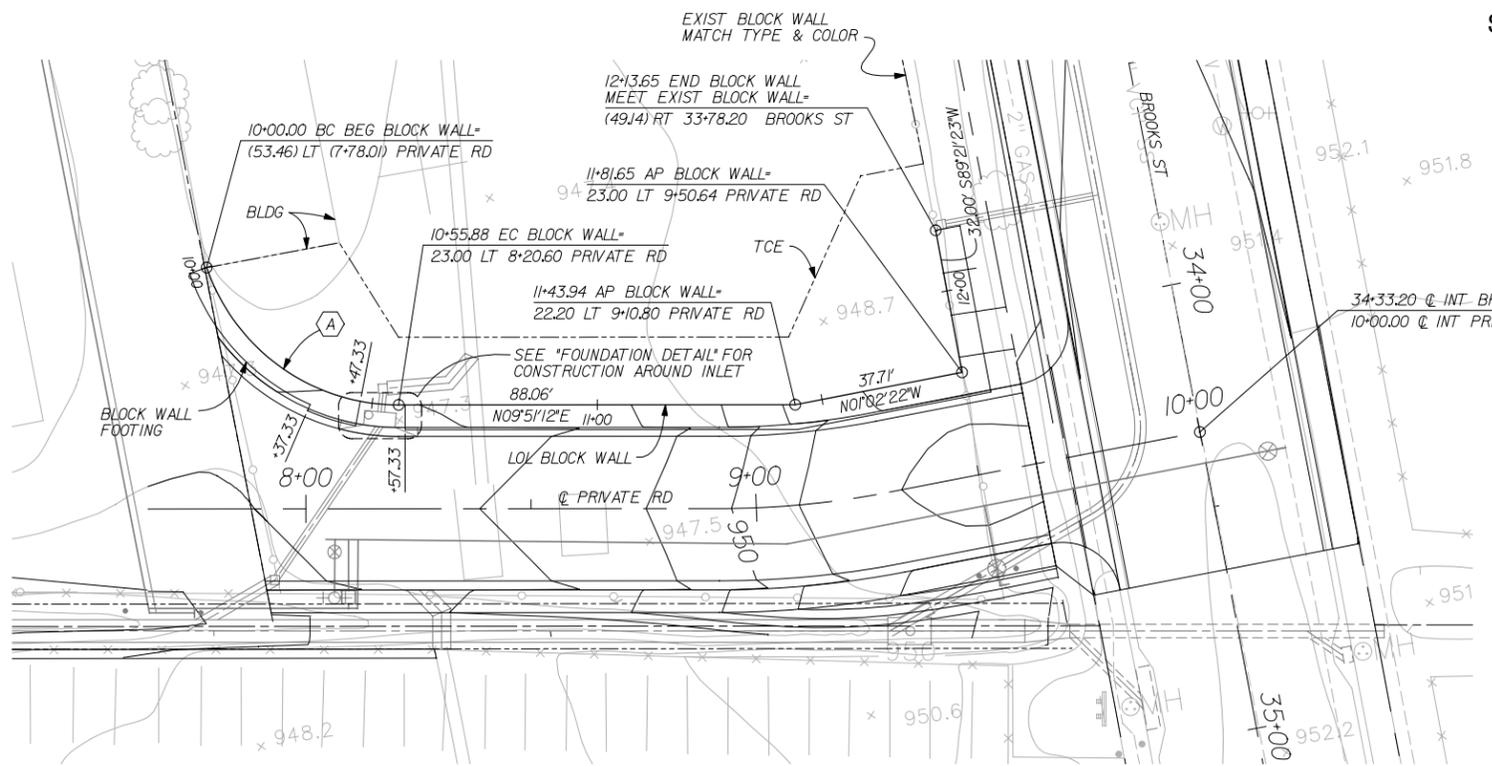
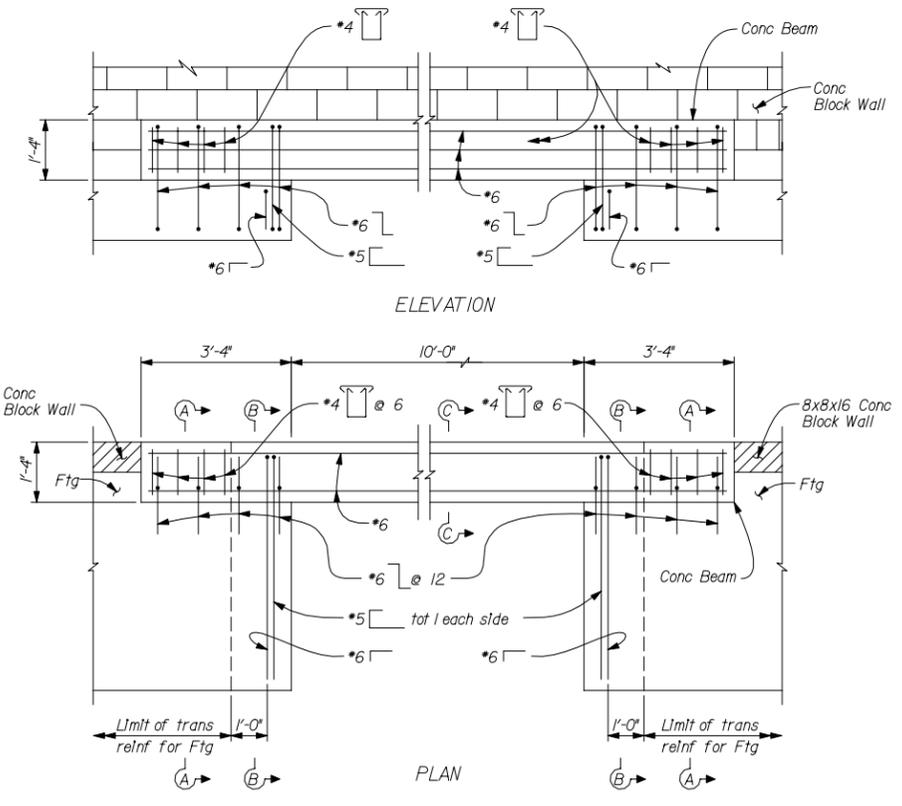
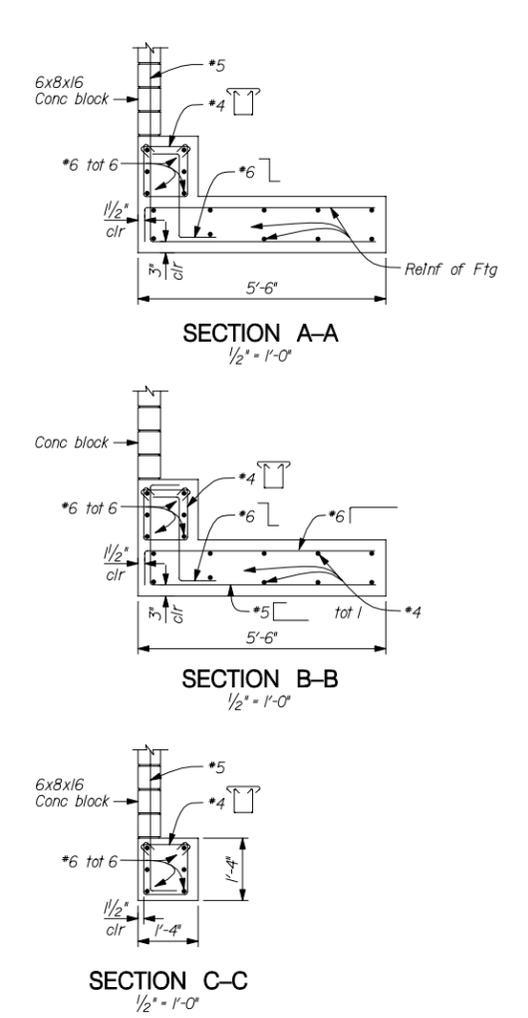
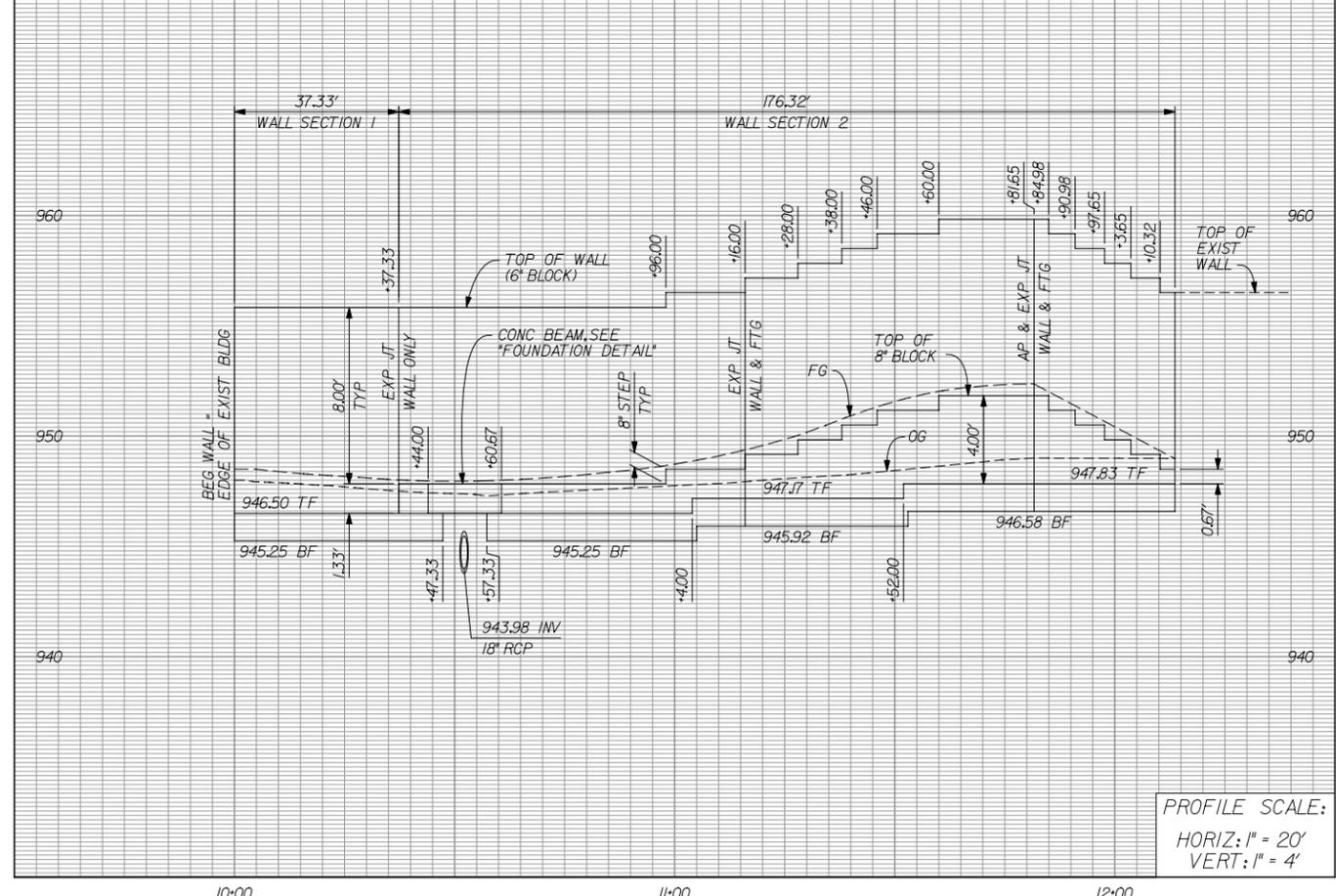
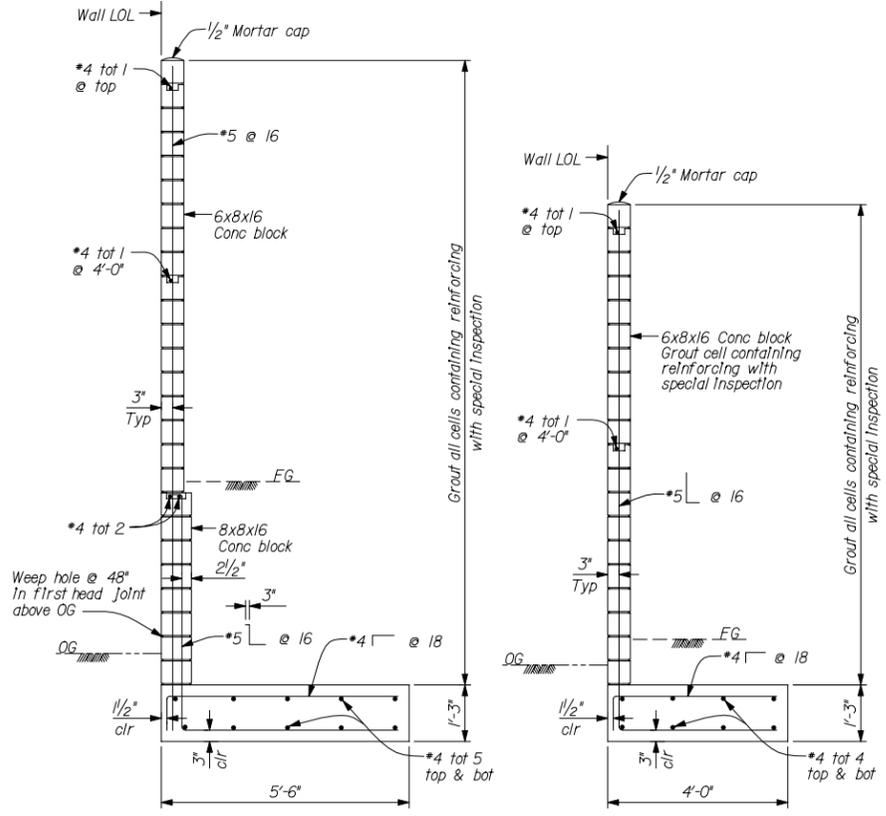
MONTE VISTA AVENUE  
 GRADE SEPARATION

STREET IMPROVEMENTS  
 EARNHARDT WAY

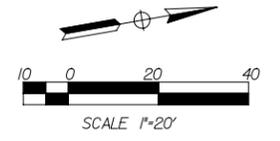
STA 29+34.77 TO STA 33+20.00

CITY FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SHEET 11 OF 82 SHEETS





CURVE DATA				
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A		7108.59'	45.00	55.88
				32.19

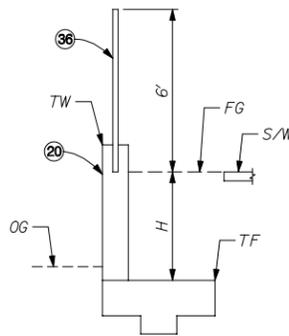


Note:  
Reinforcement for Footing & Concrete Block Wall not shown for clarity.

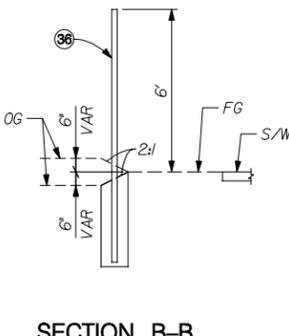
**FOUNDATION DETAIL (AT INLET)**  
1/2" = 1'-0"

**100% SUBMITTAL**  
**NOT FOR CONSTRUCTION**  
MARCH 16, 2006

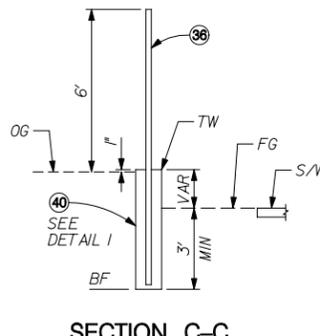
		APPROVED _____ 2004	<b>CITY OF MONTCLAIR</b> DEVELOPMENT SERVICES DEPARTMENT MONTE VISTA AVENUE GRADE SEPARATION PRIVATE ROAD MASONRY BLOCK WALL	CITY FILE NO
		MICHAEL HUDSON, P.E. CITY ENGINEER, CITY OF MONTCLAIR REGISTERED CIVIL ENGINEER NO. _____ MY LICENSE EXPIRES _____ DRAWN BY: ESG CHECKED BY: NS RECOMMENDED BY: _____		DRAWING NO
LAN LIM & NASCIMENTO ENG. CORP. 1887 BUSINESS CENTER DR. STE 6 SAN BERNARDINO, CA 92408		DATE _____	SHEET 13 OF 82 SHEETS	
ERIC S. GIRARD, R.C.E., 57288 MY LICENSE EXPIRES 12-31-07	DATE _____	REVISIONS _____		
LAN ENG JOB NO. COFM0202	MARK _____	BY _____	APPR. _____	DATE _____



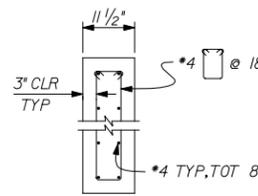
SECTION A-A  
1" = 1'-0"



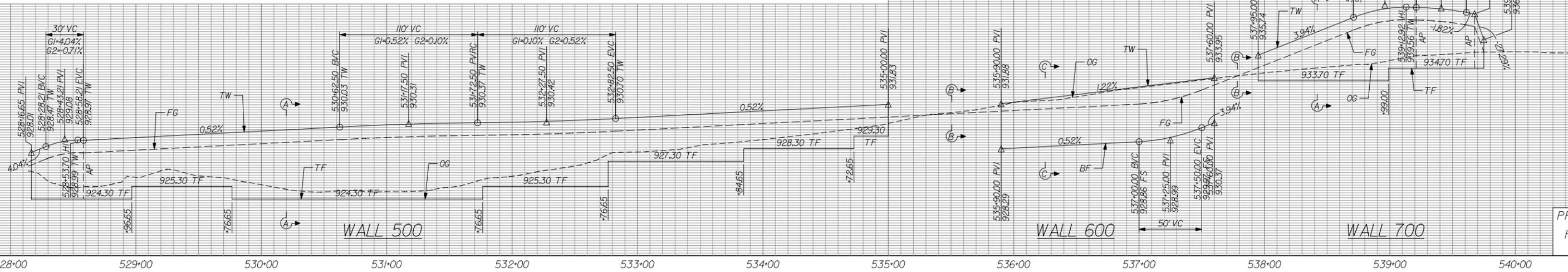
SECTION B-B  
1" = 1'-0"



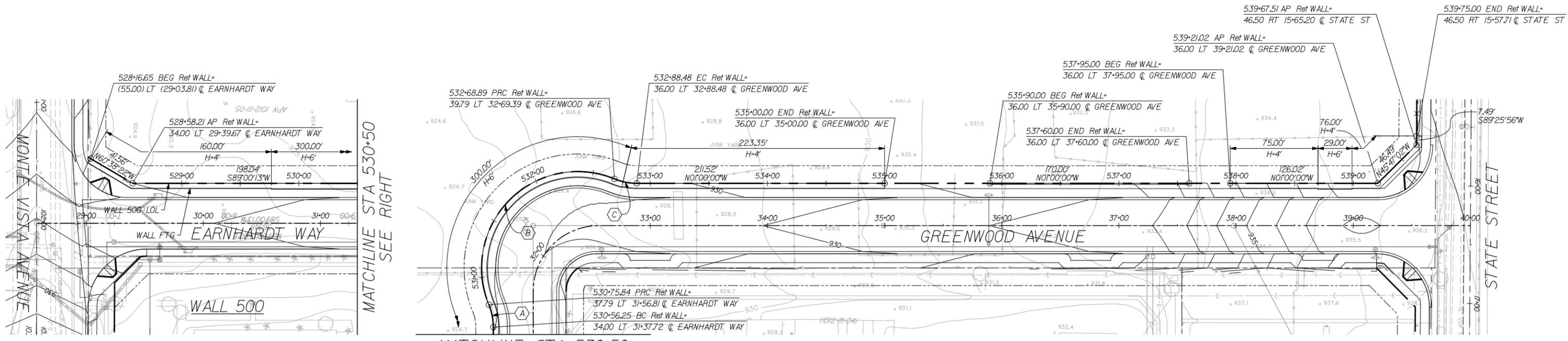
SECTION C-C  
1" = 1'-0"



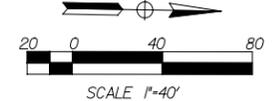
DETAIL 1  
1" = 1'-0"



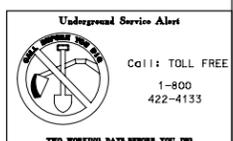
PROFILE SCALE:  
HORIZ: 1" = 40'  
VERT: 1" = 4'



CURVE DATA			
ID	△	R(FT)	T(FT)
A	22°26'44"	50.00	9.92
B	134°53'16"	82.00	193.05
C	22°26'44"	50.00	9.92



100% SUBMITTAL  
NOT FOR CONSTRUCTION  
MARCH 16, 2006



**LAN LIM & NASCIMENTO ENG. CORP.**  
1887 BUSINESS CENTER DR. STE 6  
SAN BERNARDINO, CA 92408

ERIC S. GIROD R.C.E. 57288  
MY LICENSE EXPIRES 12-31-05

LAN ENG JOB NO. C0FM0202

COUNTY OF SAN BERNARDINO  
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: DESIGNED BY: PROJ. ENGR. RECOMMENDED /APPROVED BY:

SUBMITTED BY: ASSISTANT DIRECTOR DATE

CHIEF DESIGN ENGINEER DATE DIRECTOR OF PUBLIC WORKS DATE

MARK	REVISIONS	BY	APPR.	DATE

APPROVED: \_\_\_\_\_ 2005

MICHAEL HUDSON, P.E.  
CITY ENGINEER, CITY OF MONTCLAIR  
REGISTERED CIVIL ENGINEER NO. \_\_\_\_\_  
MY LICENSE EXPIRES \_\_\_\_\_

DRAWN BY: ESG

CHECKED BY: NS

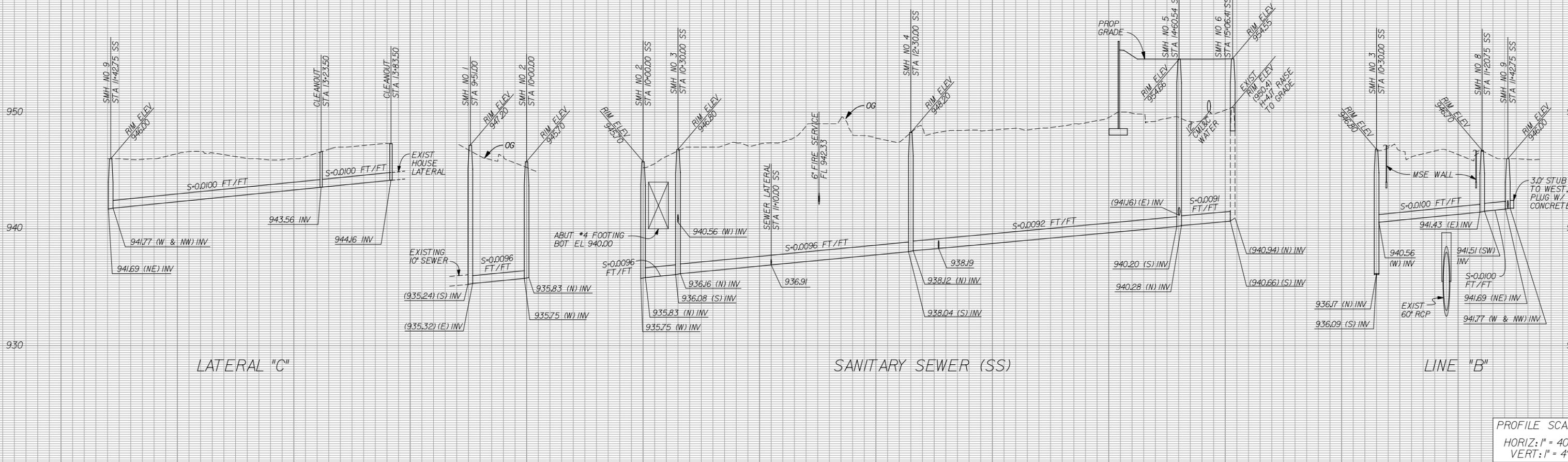
RECOMMENDED BY: \_\_\_\_\_

CITY OF MONTCLAIR  
DEVELOPMENT SERVICES DEPARTMENT

MONTE VISTA AVENUE  
GRADE SEPARATION

RETAINING WALLS 500, 600, & 700

CITY FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SHEET 14 OF 82 SHEETS

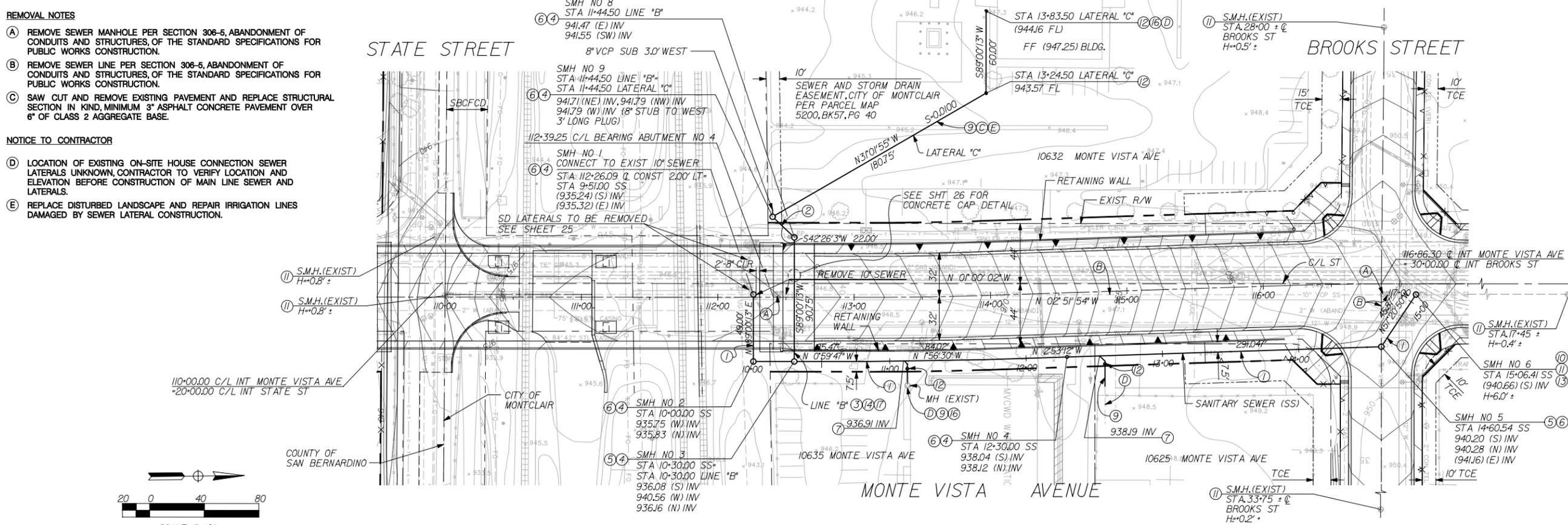


PROFILE SCALE:  
 HORIZ: 1" = 40'  
 VERT: 1" = 4'

11+00 12+00 13+00 9+00 10+00 10+00 11+00 12+00 13+00 14+00 15+00 10+00 11+00

- REMOVAL NOTES**
- (A) REMOVE SEWER MANHOLE PER SECTION 306-5, ABANDONMENT OF CONDUITS AND STRUCTURES, OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
  - (B) REMOVE SEWER LINE PER SECTION 306-5, ABANDONMENT OF CONDUITS AND STRUCTURES, OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
  - (C) SAW CUT AND REMOVE EXISTING PAVEMENT AND REPLACE STRUCTURAL SECTION IN KIND, MINIMUM 3" ASPHALT CONCRETE PAVEMENT OVER 6" OF CLASS 2 AGGREGATE BASE.
- NOTICE TO CONTRACTOR**
- (D) LOCATION OF EXISTING ON-SITE HOUSE CONNECTION SEWER LATERALS UNKNOWN, CONTRACTOR TO VERIFY LOCATION AND ELEVATION BEFORE CONSTRUCTION OF MAIN LINE SEWER AND LATERALS.
  - (E) REPLACE DISTURBED LANDSCAPE AND REPAIR IRRIGATION LINES DAMAGED BY SEWER LATERAL CONSTRUCTION.

- SEWER CONSTRUCTION NOTES**
- 1 10" SANITARY SEWER, VITRIFIED CLAY PIPE, EXTRA STRENGTH, TYPE "G" JOINTS.
  - 2 8" SANITARY SEWER, VITRIFIED CLAY PIPE, EXTRA STRENGTH, TYPE "G" JOINTS.
  - 3 8" DUCTILE IRON PIPE SANITARY SEWER WITH MECHANICAL JOINTS
  - 4 4.0' DIAMETER PRECAST CONCRETE SEWER MANHOLE PER APWA STD. PLAN 200-2.
  - 5 4.0' DIAMETER PRECAST CONCRETE DROP SEWER MANHOLE PER APWA STD. PLAN 202-0.
  - 6 24" MANHOLE FRAME AND COVER PER CITY OF MONTCLAIR STD. DWG. NO. 210
  - 7 HOUSE CONNECTION SEWER, 6" VITRIFIED CLAY PIPE EXTRA STRENGTH, TYPE "G" JOINTS. PER APWA STD. PLAN 222-1, PROFILE TYPE B.
  - 8 6" PVC PIPE, SDR-35, ON-SITE SEWER LATERAL.
  - 9 REMODEL EXISTING SEWER MANHOLE PER SECTION 306-6, REMODELING EXISTING SEWER FACILITIES, OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
  - 10 ADJUST EXISTING MANHOLE TO FINISH GRADE PER APWA STD. PLAN 205-1, HEIGHT (H) AS SHOWN ON PLANS.
  - 11 CLEANOUT PER APWA STD. PLAN 222-1, PROFILE TYPE B.
  - 12 BREAKING INTO EXISTING MANHOLES PER APWA STD. PLAN 208-1.
  - 13 18" DIAMETER STEEL CASING, 0.375 WALL THICKNESS, SEAL ENDS WITH MODEL W. WRAP AROUND SPLIT STYLE END SEAL, CALPICO INC. OR APPROVED EQUAL, EACH END.
  - 14 CONNECT HOUSE CONNECTION SEWER LATERAL TO EXISTING MANHOLE OR LATERAL.
  - 15 SUPPORT 8" DUCTILE IRON PIPE IN STEEL CASING AT EACH JOINT, ENDS OF CASING, AND MIDPOINTS, NOT TO EXCEED 10' CENTERS WITH STAINLESS STEEL CASING INSULATOR, MINIMUM 6" WIDE, CALPICO MODEL M-6-SS OR APPROVED EQUAL.



100% SUBMITTAL  
 NOT FOR CONSTRUCTION  
 MARCH 16, 2006

Underground Service Alert  
 Call: TOLL FREE  
 1-800-422-4133  
 TWO WORKING DAYS BEFORE YOU DIG

DOUGLAS ENGINEERING  
 414 TENNESSEE ST, SUITE "G"  
 REDLANDS, CA 92373

DATE

REGISTERED PROFESSIONAL ENGINEER  
 DOUGLAS H. MAYS  
 No. C 21062  
 Exp. 09/30/07  
 CIVIL  
 STATE OF CALIFORNIA

LAN LIM & NASCIMENTO ENG. CORP.  
 1887 BUSINESS CENTER DR, STE 6  
 SAN BERNARDINO, CA 92408

LAN ENG JOB NO. COFM202

MARK	REVISIONS	BY	APPR.	DATE

APPROVED \_\_\_\_\_ 2004

MICHAEL HUDSON, P.E.  
 CITY ENGINEER, CITY OF MONTCLAIR  
 REGISTERED CIVIL ENGINEER NO. \_\_\_\_\_  
 MY LICENSE EXPIRES \_\_\_\_\_

DRAWN BY: ESG

CHECKED BY: DM

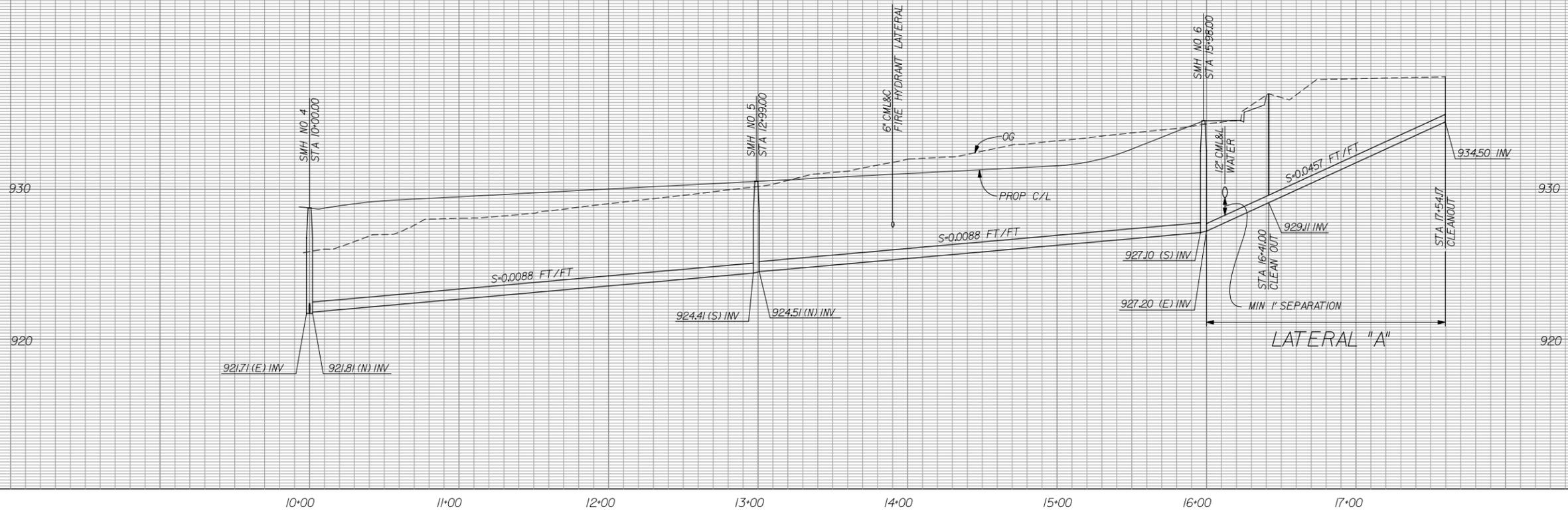
RECOMMENDED BY: \_\_\_\_\_

CITY OF MONTCLAIR  
 DEVELOPMENT SERVICES DEPARTMENT

MONTE VISTA AVENUE  
 GRADE SEPARATION

SEWER PLAN AND PROFILE  
 MONTE VISTA AVENUE  
 FROM STATE ST TO BROOKS ST

CITY FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SHEET 15 OF 82 SHEETS



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

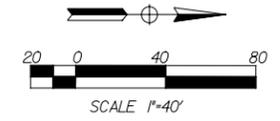
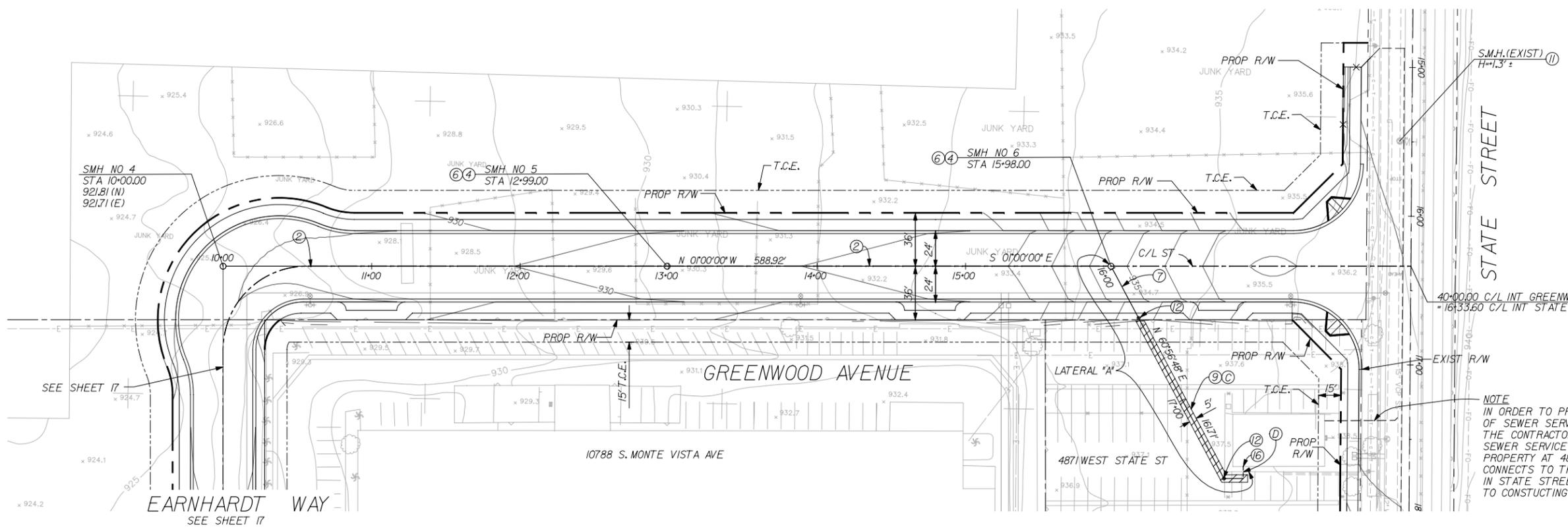
**SEWER CONSTRUCTION NOTES**

- ② 8" SANITARY SEWER, VITRIFIED CLAY PIPE, EXTRA STRENGTH, TYPE "G" JOINTS.
- ④ 4.0' DIAMETER PRECAST CONCRETE SEWER MANHOLE PER APWA STD. PLAN 200-2.
- ⑥ 24" MANHOLE FRAME AND COVER PER CITY OF MONTCLAIR STD. DWG. NO. 210.
- ⑦ HOUSE CONNECTION SEWER, 6" VITRIFIED CLAY PIPE EXTRA STRENGTH, TYPE "G" JOINTS, PER APWA STD. PLAN 222-1, PROFILE TYPE B.
- ⑨ 6" PVC PIPE, SDR-35, ON-SITE SEWER LATERAL.
- ⑪ ADJUST EXISTING MANHOLE TO FINISH GRADE PER APWA STD. PLAN 205-1, HEIGHT (H) AS SHOWN ON PLANS.
- ⑫ CLEANOUT PER APWA STD. PLAN 222-1, PROFILE TYPE B.
- ⑬ CONNECT HOUSE CONNECTION SEWER LATERAL TO EXISTING MANHOLE OR LATERAL.

- REMOVALS**
- ⑬ SAW CUT AND REMOVE EXISTING PAVEMENT AND REPLACE STRUCTURAL SECTION IN KIND, MINIMUM 3" ASPHALT CONCRETE PAVEMENT OVER 6" OF CLASS 2 AGGREGATE BASE.

**NOTICE TO CONTRACTOR**

⑭ LOCATION OF EXISTING ON-SITE HOUSE CONNECTION SEWER LATERALS UNKNOWN, CONTRACTOR TO VERIFY LOCATION BEFORE CONSTRUCTION OF MAIN LINE SEWER AND LATERALS.



**100% SUBMITTAL  
 NOT FOR CONSTRUCTION  
 MARCH 16, 2006**

**Underground Service Alert**

Call: TOLL FREE  
 1-800-422-4133

TWO WORKING DAYS BEFORE YOU DIG

**DOUGLAS ENGINEERING**  
 414 TENNESSEE ST, SUITE "G"  
 REDLANDS, CA 92373

DOUGLAS H. MAYS P.C.E. 21062  
 MY LICENSE EXPIRES 09-30-07

DATE \_\_\_\_\_

**REGISTERED PROFESSIONAL ENGINEER**  
 DOUGLAS H. MAYS  
 No. C 21062  
 Exp. 09/30/07  
 CIVIL  
 STATE OF CALIFORNIA

**LAN LIM & NASCIMENTO ENG. CORP.**  
 1887 BUSINESS CENTER DR, STE 6  
 SAN BERNARDINO, CA 92408

LAN ENG JOB NO. COFM0202

MARK	REVISIONS	BY	APPR.	DATE

APPROVED \_\_\_\_\_ 2004

MICHAEL HUDSON, P.E.  
 CITY ENGINEER, CITY OF MONTCLAIR  
 REGISTERED CIVIL ENGINEER NO. \_\_\_\_\_  
 MY LICENSE EXPIRES \_\_\_\_\_

DRAWN BY: ESG

CHECKED BY: DM

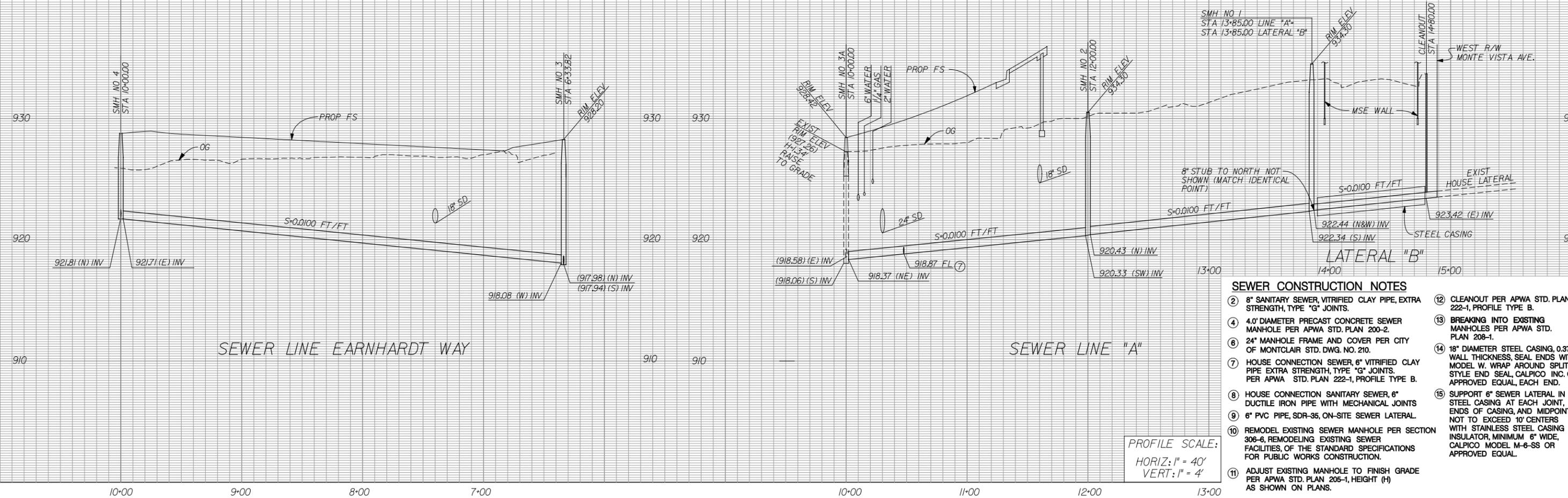
RECOMMENDED BY: \_\_\_\_\_

**CITY OF MONTCLAIR**  
 DEVELOPMENT SERVICES DEPARTMENT

**MONTE VISTA AVENUE  
 GRADE SEPARATION**

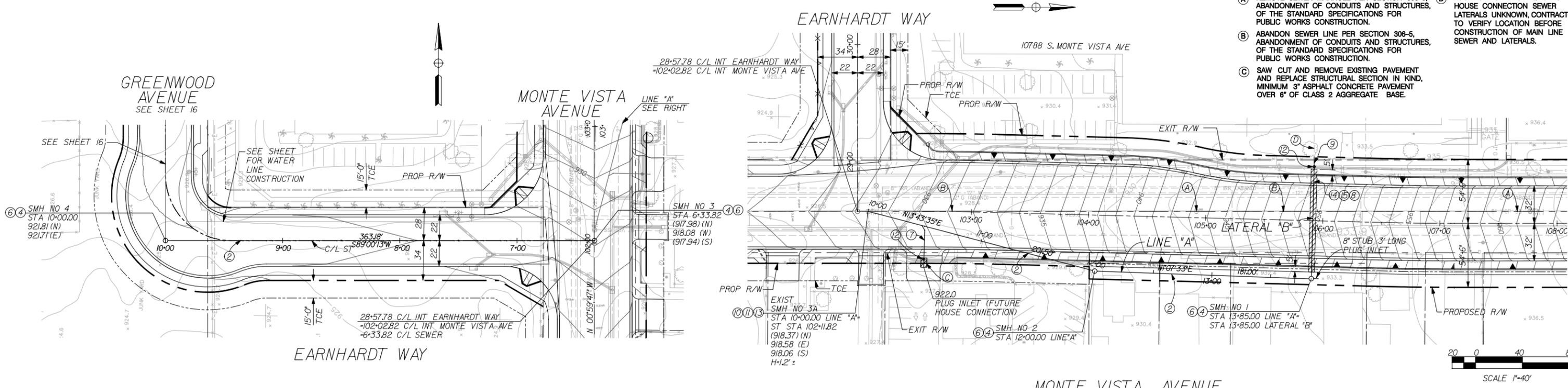
**SEWER PLAN AND PROFILE  
 GREENWOOD AVENUE  
 FROM EARNHARDT WAY TO STATE ST**

CITY FILE NO \_\_\_\_\_  
 DRAWING NO \_\_\_\_\_  
 SHEET 16 OF 82 SHEETS

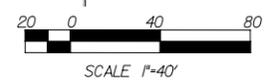


- SEWER CONSTRUCTION NOTES**
- ② 8" SANITARY SEWER, VITRIFIED CLAY PIPE, EXTRA STRENGTH, TYPE "G" JOINTS.
  - ④ 4.0' DIAMETER PRECAST CONCRETE SEWER MANHOLE PER APWA STD. PLAN 200-2.
  - ⑥ 24" MANHOLE FRAME AND COVER PER CITY OF MONTCLAIR STD. DWG. NO. 210.
  - ⑦ HOUSE CONNECTION SEWER, 6" VITRIFIED CLAY PIPE EXTRA STRENGTH, TYPE "G" JOINTS. PER APWA STD. PLAN 222-1, PROFILE TYPE B.
  - ⑧ HOUSE CONNECTION SANITARY SEWER, 6" DUCTILE IRON PIPE WITH MECHANICAL JOINTS
  - ⑨ 6" PVC PIPE, SDR-35, ON-SITE SEWER LATERAL
  - ⑩ REMODEL EXISTING SEWER MANHOLE PER SECTION 306-6, REMODELING EXISTING SEWER FACILITIES, OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
  - ⑪ ADJUST EXISTING MANHOLE TO FINISH GRADE PER APWA STD. PLAN 205-1, HEIGHT (H) AS SHOWN ON PLANS.
  - ⑫ CLEANOUT PER APWA STD. PLAN 222-1, PROFILE TYPE B.
  - ⑬ BREAKING INTO EXISTING MANHOLES PER APWA STD. PLAN 208-1.
  - ⑭ 18" DIAMETER STEEL CASING, 0.375 WALL THICKNESS, SEAL ENDS WITH MODEL W. WRAP AROUND SPLIT STYLE END SEAL, CALPICO INC. OR APPROVED EQUAL, EACH END.
  - ⑮ SUPPORT 6" SEWER LATERAL IN STEEL CASING AT EACH JOINT, ENDS OF CASING, AND MIDPOINTS, NOT TO EXCEED 10' CENTERS WITH STAINLESS STEEL CASING INSULATOR, MINIMUM 6" WIDE, CALPICO MODEL M-6-SS OR APPROVED EQUAL.

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



- REMOVALS**
- A REMOVE SEWER MANHOLE PER SECTION 306-5, ABANDONMENT OF CONDUITS AND STRUCTURES, OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
  - B ABANDON SEWER LINE PER SECTION 306-5, ABANDONMENT OF CONDUITS AND STRUCTURES, OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
  - C SAW CUT AND REMOVE EXISTING PAVEMENT AND REPLACE STRUCTURAL SECTION IN KIND, MINIMUM 3" ASPHALT CONCRETE PAVEMENT OVER 6" OF CLASS 2 AGGREGATE BASE.
- NOTICE TO CONTRACTOR**
- D LOCATION OF EXISTING ON-SITE HOUSE CONNECTION SEWER LATERALS UNKNOWN, CONTRACTOR TO VERIFY LOCATION BEFORE CONSTRUCTION OF MAIN LINE SEWER AND LATERALS.



**100% SUBMITTAL  
 NOT FOR CONSTRUCTION  
 MARCH 16, 2006**

	DOUGLAS ENGINEERNG 414 TENNESSEE ST, SUITE "G" REDLANDS, CA 92373		LAN LIM & NASCIMENTO ENG. CORP. 1887 BUSINESS CENTER DR, STE 6 SAN BERNARDINO, CA 92408	APPROVED _____ 2004 MICHAEL HUDSON, P.E. CITY ENGINEER, CITY OF MONTCLAIR REGISTERED CIVIL ENGINEER NO. _____ MY LICENSE EXPIRES _____ DRAWN BY: ESG CHECKED BY: DM RECOMMENDED BY: _____	CITY OF MONTCLAIR DEVELOPMENT SERVICES DEPARTMENT MONTE VISTA AVENUE GRADE SEPARATION SEWER PLAN AND PROFILE EARNHARDT WAY & MONTE VISTA AVENUE	CITY FILE NO _____ DRAWING NO _____ SHEET 17 OF 82 SHEETS
	Underground Service Alert Call: TOLL FREE 1-800-422-4133 TWO WORKING DAYS BEFORE YOU DIG		DOUGLAS H. MAYS P.C.E. 21062 MY LICENSE EXPIRES 09-30-07	LAN ENG JOB NO. COFM0202	MARK _____ REVISIONS _____ BY _____ APPR. _____ DATE _____	DATE _____

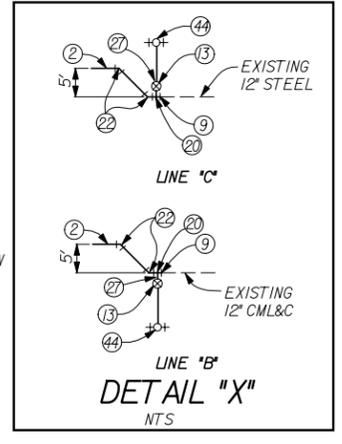
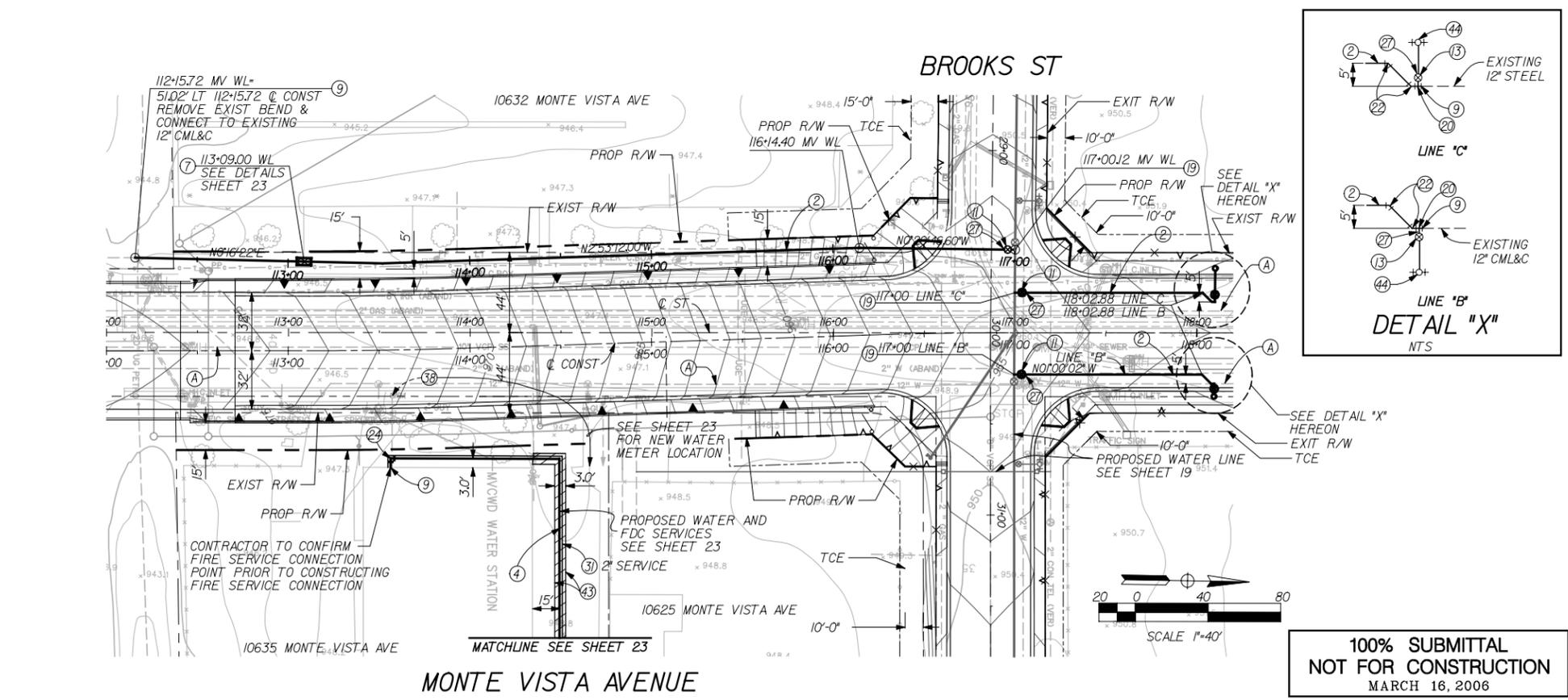
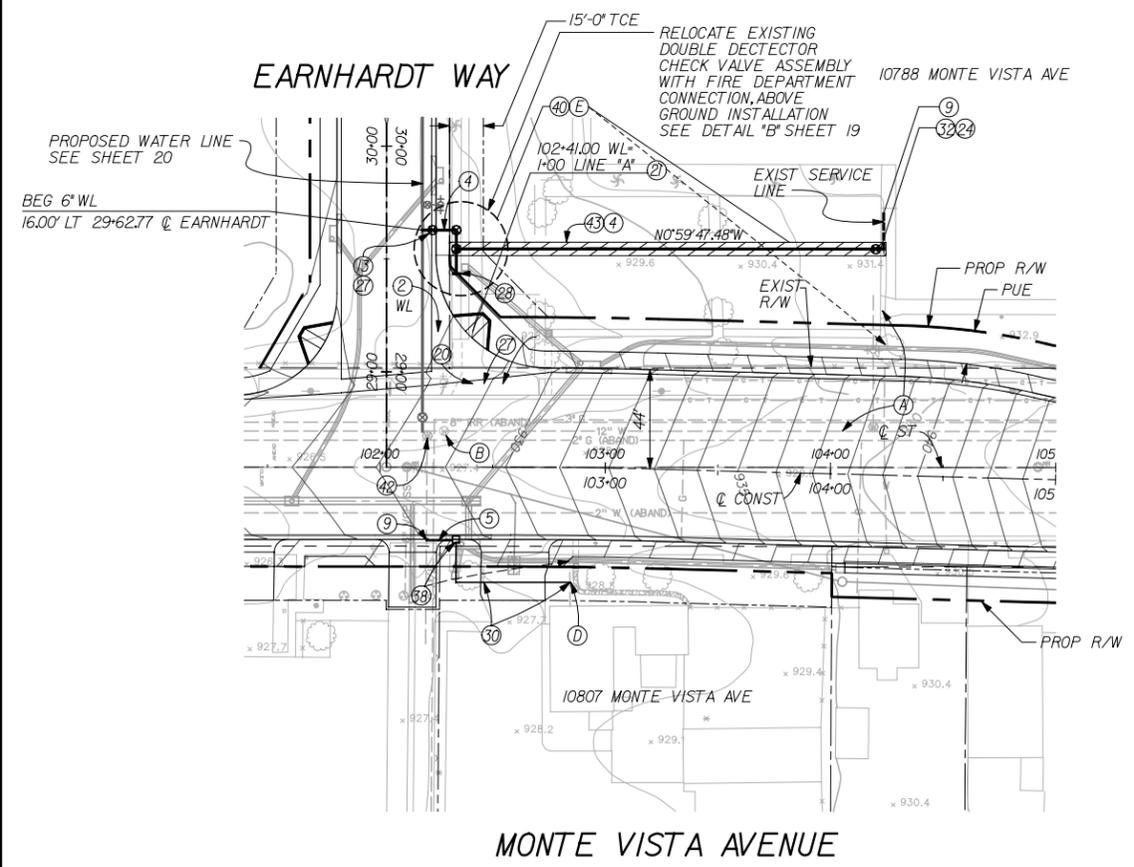
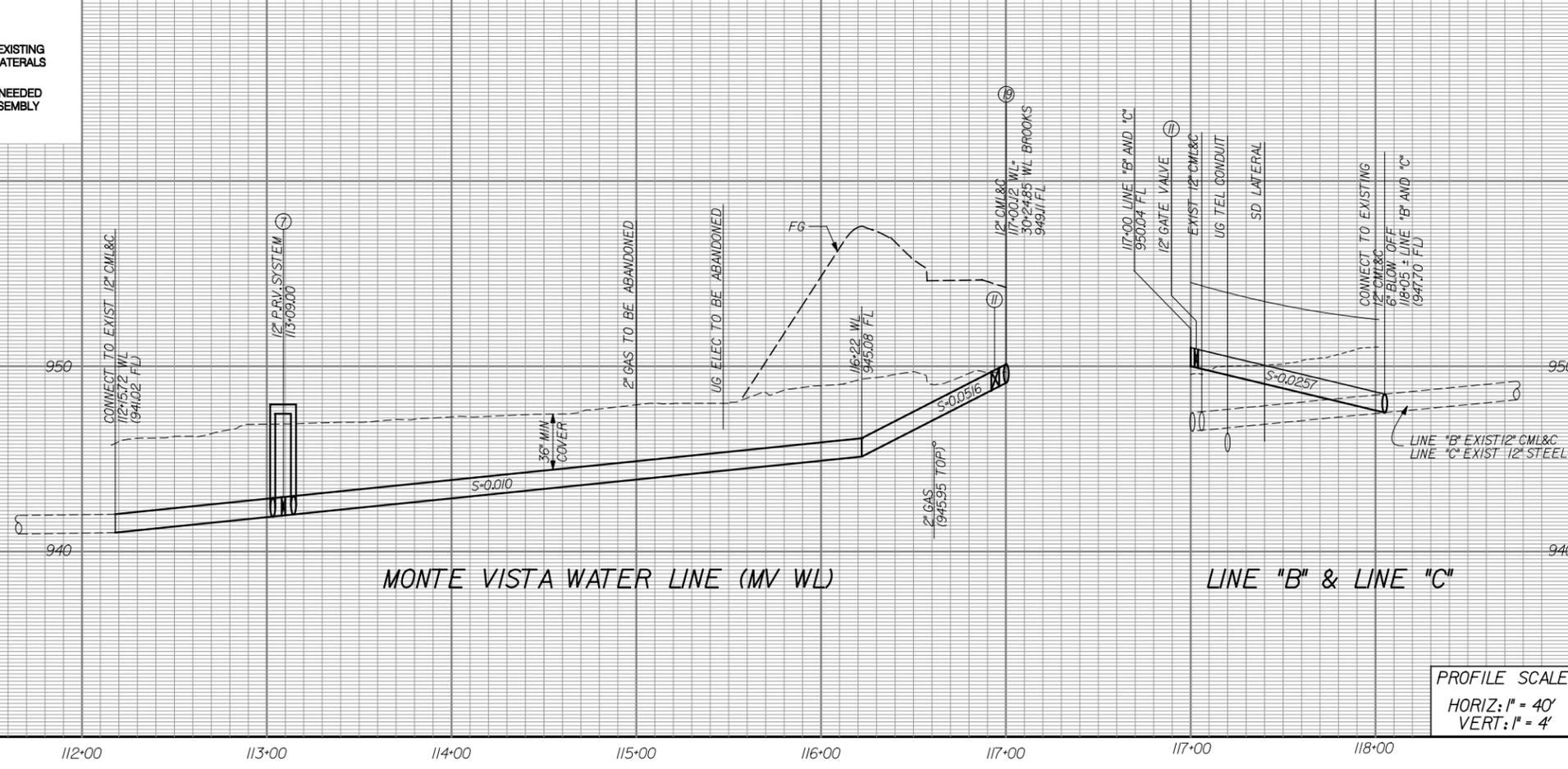
**WATER CONSTRUCTION NOTES**

- 2) CONSTRUCT 12" WELDED STEEL PIPE, CLASS 200, 10 GAGE, CML&C
- 4) CONSTRUCT 6" WELDED STEEL PIPE, CLASS 200, 10 GAGE, CML&C
- 5) CONSTRUCT 1" WATER SERVICE INSTALLATION PER STD. DWG. NO. MWWD-5
- 7) CONSTRUCT 8" PRESSURE REDUCING VALVE SYSTEM PER DETAIL ON PLANS
- 9) CONNECT TO EXISTING WATERLINE - LAP WELD
- 11) INSTALL 12" GATE VALVE; FLANGED
- 19) INSTALL 12" X 12" X 12" TEE; FLANGED - WELDED
- 21) INSTALL 12" - 90° BEND; WELDED
- 22) INSTALL 12" - 45° BEND; WELDED
- 24) INSTALL 6" - 90° BEND; WELDED
- 26) INSTALL 12" BLIND FLANGE; FLANGED
- 27) SLIP-ON WELD FLANGE
- 28) INSTALL 4" GALVANIZED STEEL PIPE FIRE DEPARTMENT SERVICE LATERAL CONNECTION ON PRIVATE SIDE OF DOUBLE DETECTOR CHECK ASSEMBLY BACKFLOW PREVENTION DEVICE
- 30) LOCATE EXISTING WATER SERVICE; CONSTRUCT NEW 1" COPPER WATER SERVICE LATERAL AND CONNECT TO EXISTING ON-SITE WATER SERVICE LATERAL PER STD. DWG. NO. MWWD-6
- 31) LOCATE EXISTING WATER SERVICE; CONSTRUCT NEW 2" GALVANIZED STEEL PIPE WATER SERVICE LATERAL AND CONNECT TO EXISTING ON-SITE WATER SERVICE LATERAL PER STD. DWG. NO. MWWD-6
- 32) LOCATE EXISTING FIRE SERVICE; CONSTRUCT FIRE SERVICE AND CONNECT LINE TO EXISTING FIRE SERVICE LINE PER STD. DWG. NO. MWWD-10
- 38) INSTALL WATER METER & METER BOX; RE-INSTALL WITH NEW PIPING & FITTINGS PER STD. DWG. NO. MWWD-5 OR MWWD-6
- 40) SALVAGE AND RELOCATE EXISTING 6" DOUBLE DETECTOR CHECK VALVE ASSEMBLY AND FIRE DEPARTMENT CONNECTION (ABOVE GROUND INSTALLATION) MODIFY AND RE-INSTALL WITH NEW PIPING AND FITTINGS PER PLANS
- 42) ADJUST EXISTING VALVE CAN AND COVER TO FINISH GRADE
- 43) SAW CUT, REMOVE EXISTING PAVEMENT AND REPLACE STRUCTURAL SECTION IN KIND, MINIMUM 3" ASPHALT CONCRETE PAVEMENT OVER 6" OF CLASS 2 AGGREGATE BASE. MINIMUM COVER IS 30".
- 44) INSTALL 6" BLOW-OFF INSTALLATION PER STD. DWG. MWWD-16

**NOTICE TO CONTRACTOR**

- D) CONTRACTOR SHALL VERIFY PIPING AND FITTINGS, SIZE, AND LOCATION OF EXISTING POTABLE WATER, IRRIGATION LINE CONNECTIONS, INCLUDING FIRE SERVICE LATERALS BEFORE ORDERING MATERIALS
- E) CONTRACTOR SHALL VERIFY PIPING AND FITTINGS, SIZE, AND APPURTANCES NEEDED TO RELOCATE AND MODIFY EXISTING DOUBLE DETECTOR CHECK VALVE ASSEMBLY BEFORE ORDERING MATERIALS

- REMOVAL NOTES**
- A) ABANDON WATERLINE AND APPURTANCES PER SECTION 306-5, ABANDONMENT OF CONDUITS AND STRUCTURES, OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
  - B) REMOVE INTERFERING PORTIONS OF EXISTING WATERLINE AND APPURTANCES



**100% SUBMITTAL  
NOT FOR CONSTRUCTION  
MARCH 16, 2006**

Underground Service Alert

**MONTE VISTA WATER DISTRICT**  
10575 CENTRAL AVENUE  
MONTCLAIR, CALIFORNIA 91763  
(909) 624-0035

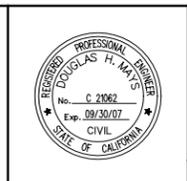
Call: TOLL FREE  
1-800  
422-4133

APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_

**DOUGLAS ENGINEERING**  
414 TENNESSEE ST, SUITE "G"  
REDLANDS, CA 92373

DOUGLAS H. MAYS P.E. R.C.E. 21062  
MY LICENSE EXPIRES 09-30-07

DATE \_\_\_\_\_



**LAN LIM & NASCIMENTO ENG. CORP.**  
1887 BUSINESS CENTER DR, STE 6  
SAN BERNARDINO, CA 92408

LAN ENG JOB NO. COFM0202

MARK	REVISIONS	BY	APPR.	DATE

APPROVED \_\_\_\_\_ 2004

MICHAEL HUDSON, P.E.  
CITY ENGINEER, CITY OF MONTCLAIR  
REGISTERED CIVIL ENGINEER NO. \_\_\_\_\_  
MY LICENSE EXPIRES \_\_\_\_\_

DRAWN BY: ESG

CHECKED BY: DM

RECOMMENDED BY: \_\_\_\_\_

**CITY OF MONTCLAIR**  
DEVELOPMENT SERVICES DEPARTMENT

**MONTE VISTA AVENUE  
GRADE SEPARATION**

**WATER IMPROVEMENTS  
MONTE VISTA AVENUE**

CITY FILE NO. \_\_\_\_\_

DRAWING NO. \_\_\_\_\_

SHEET 18 OF 82 SHEETS

960

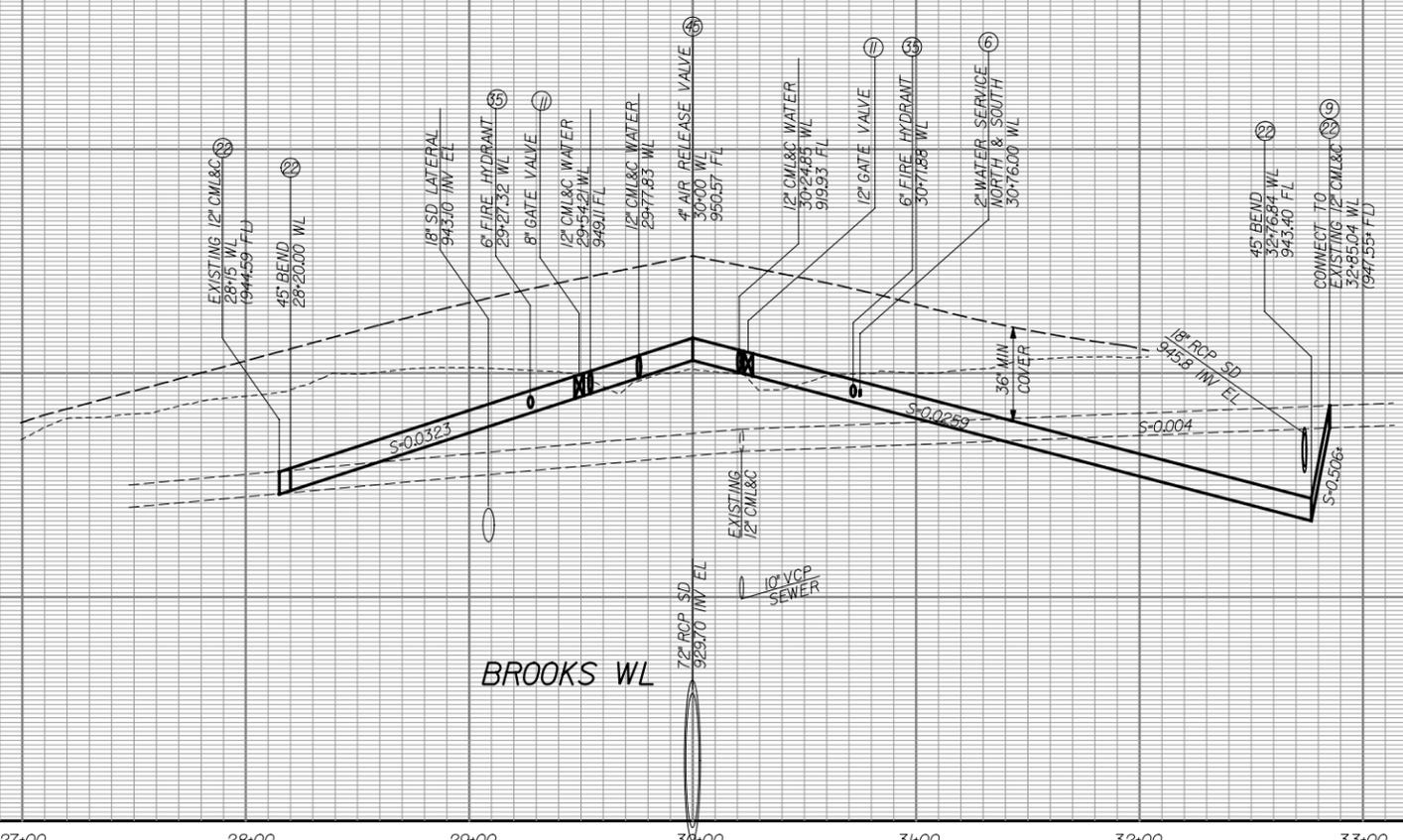
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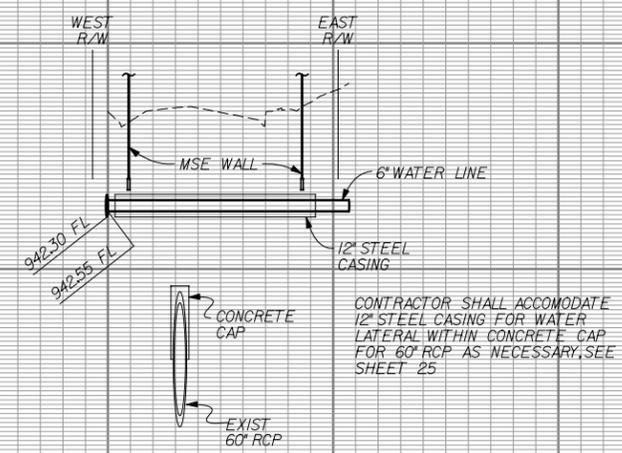
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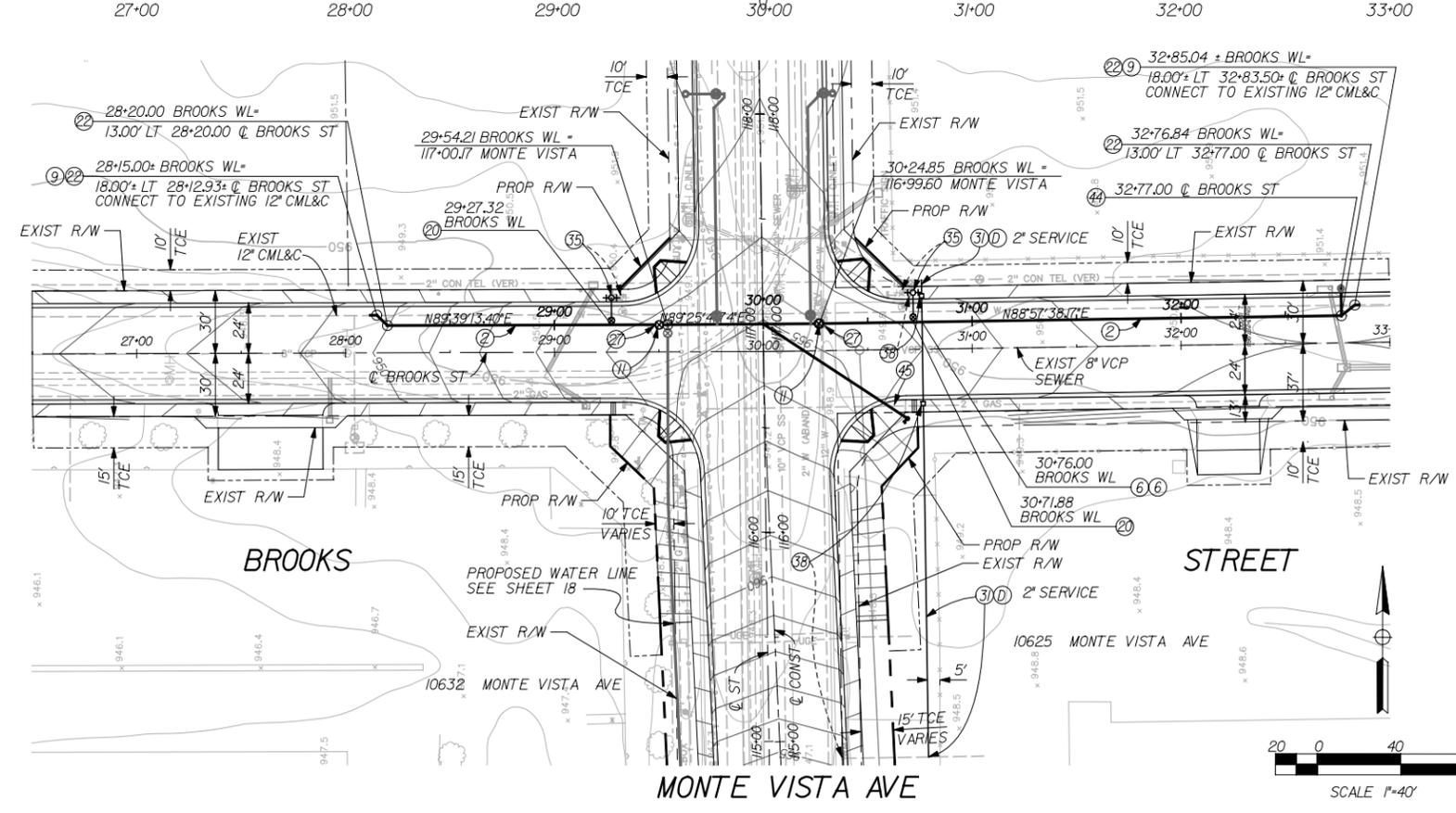
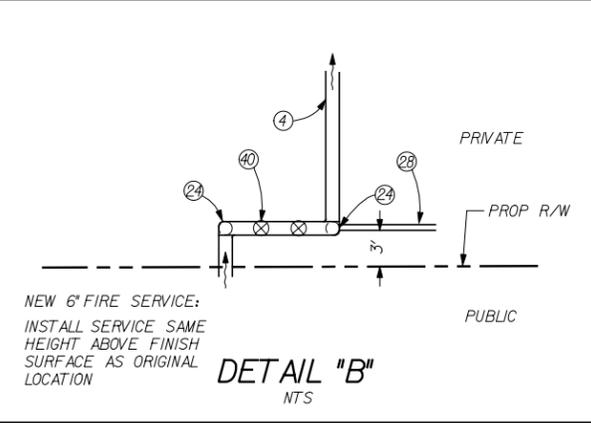


### FIRE SERVICE LATERAL

STA 113+51.90  
(SEE SHEET 18 FOR PLAN)



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



### WATER CONSTRUCTION NOTES

- 2 CONSTRUCT 12" WELDED STEEL PIPE, CLASS 200, 10 GAGE, CML&C
  - 4 CONSTRUCT 6" WELDED STEEL PIPE, CLASS 200, 10 GAGE, CML&C
  - 8 CONSTRUCT 2" WATER SERVICE INSTALLATION PER STD. DWG. NO. MWWD-6
  - 9 CONNECT TO EXISTING WATERLINE - LAP WELD
  - 11 INSTALL 12" GATE VALVE; FLANGED
  - 20 INSTALL 12" X 12" X 6" TEE; FLANGED - WELDED
  - 22 INSTALL 12" - 45° BEND; WELDED
  - 24 INSTALL 6" - 90° BEND; WELDED
  - 27 SLIP-ON WELD FLANGE
  - 28 INSTALL 4" GALVANIZED STEEL PIPE FIRE DEPARTMENT SERVICE LATERAL CONNECTION ON PRIVATE SIDE OF DOUBLE DETECTOR CHECK ASSEMBLY BACKFLOW PREVENTION DEVICE
  - 31 LOCATE EXISTING WATER SERVICE; CONSTRUCT NEW 2" GALVANIZED STEEL PIPE WATER SERVICE LATERAL AND CONNECT TO EXISTING ON-SITE WATER SERVICE LATERAL PER STD. DWG. NO. MWWD-6
  - 35 SALVAGE EXISTING FIRE HYDRANT. RE-INSTALL WITH NEW VALVE, PIPING AND FITTINGS PER STD. DWG. NO. MWWD-11
  - 38 INSTALL WATER METER & METER BOX; RE-INSTALL WITH NEW PIPING & FITTINGS PER STD. DWG. NO. MWWD-5 OR MWWD-6
  - 40 SALVAGE EXISTING 6" DOUBLE DETECTOR CHECK VALVE ASSEMBLY (ABOVE GROUND INSTALLATION) MODIFY AND RE-INSTALL WITH NEW PIPING PER PLANS
  - 44 INSTALL 6" BLOW-OFF INSTALLATION PER STD. DWG. MWWD-16
  - 45 INSTALL 4" AIR VALVE INSTALLATION PER STD. DWG. MWWD-15
- NOTICE TO CONTRACTOR
- 1 CONTRACTOR SHALL VERIFY PIPING AND FITTINGS, SIZE, AND LOCATION OF EXISTING POTABLE WATER, IRRIGATION LINE CONNECTIONS, INCLUDING FIRE SERVICE LATERALS BEFORE ORDERING MATERIALS

100% SUBMITTAL  
NOT FOR CONSTRUCTION  
MARCH 16, 2006

Underground Service Alert  
Call: TOLL FREE 1-800-422-4133

**MONTE VISTA WATER DISTRICT**  
10575 CENTRAL AVENUE  
MONTCLAIR, CALIFORNIA 91763  
(909) 624-0035

APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_

**DOUGLAS ENGINEERING**  
414 TENNESSEE ST, SUITE "G"  
REDLANDS, CA 92373

DOUGLAS H. MAYS R.C.E. 21062  
MY LICENSE EXPIRES 09-30-07

DATE \_\_\_\_\_

**LAN LIM & NASCIMENTO ENG. CORP.**  
1887 BUSINESS CENTER DR, STE 6  
SAN BERNARDINO, CA 92408

PROFESSIONAL ENGINEER  
REGISTERED  
DOUGLAS H. MAYS  
No. C 21062  
Exp. 09/30/07  
CIVIL  
STATE OF CALIFORNIA

LAN ENG JOB NO. COFM0202

MARK	REVISIONS	BY	APPR.	DATE

APPROVED \_\_\_\_\_ 2004

MICHAEL HUDSON, P.E.  
CITY ENGINEER, CITY OF MONTCLAIR  
REGISTERED CIVIL ENGINEER NO. \_\_\_\_\_  
MY LICENSE EXPIRES \_\_\_\_\_

DRAWN BY: ESG

CHECKED BY: DM

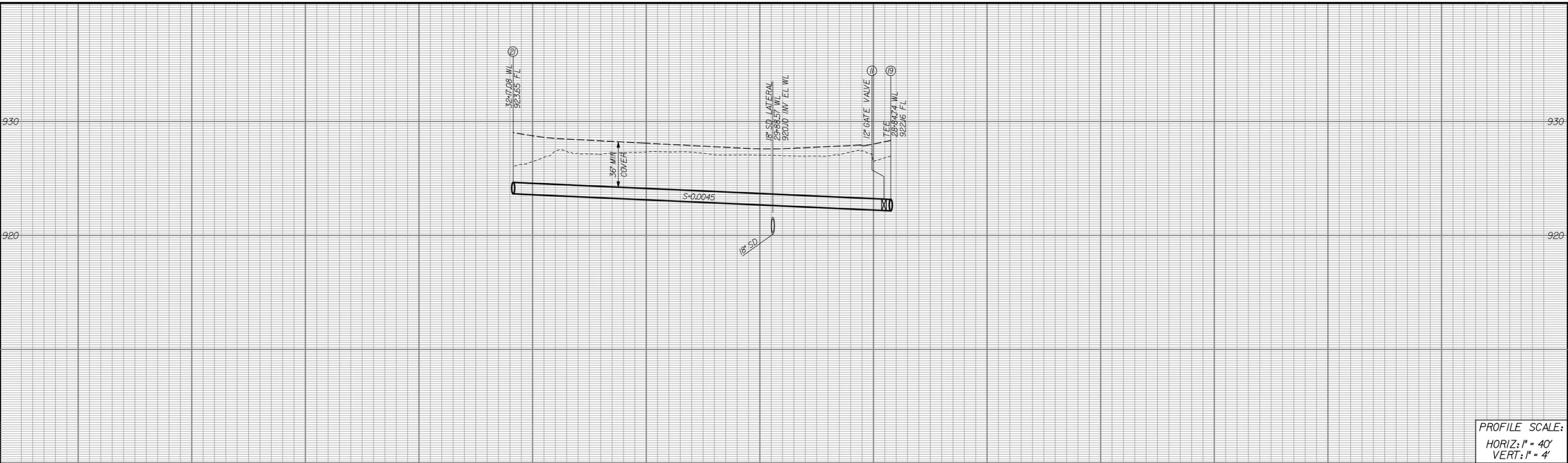
RECOMMENDED BY: \_\_\_\_\_

CITY OF MONTCLAIR  
DEVELOPMENT SERVICES DEPARTMENT

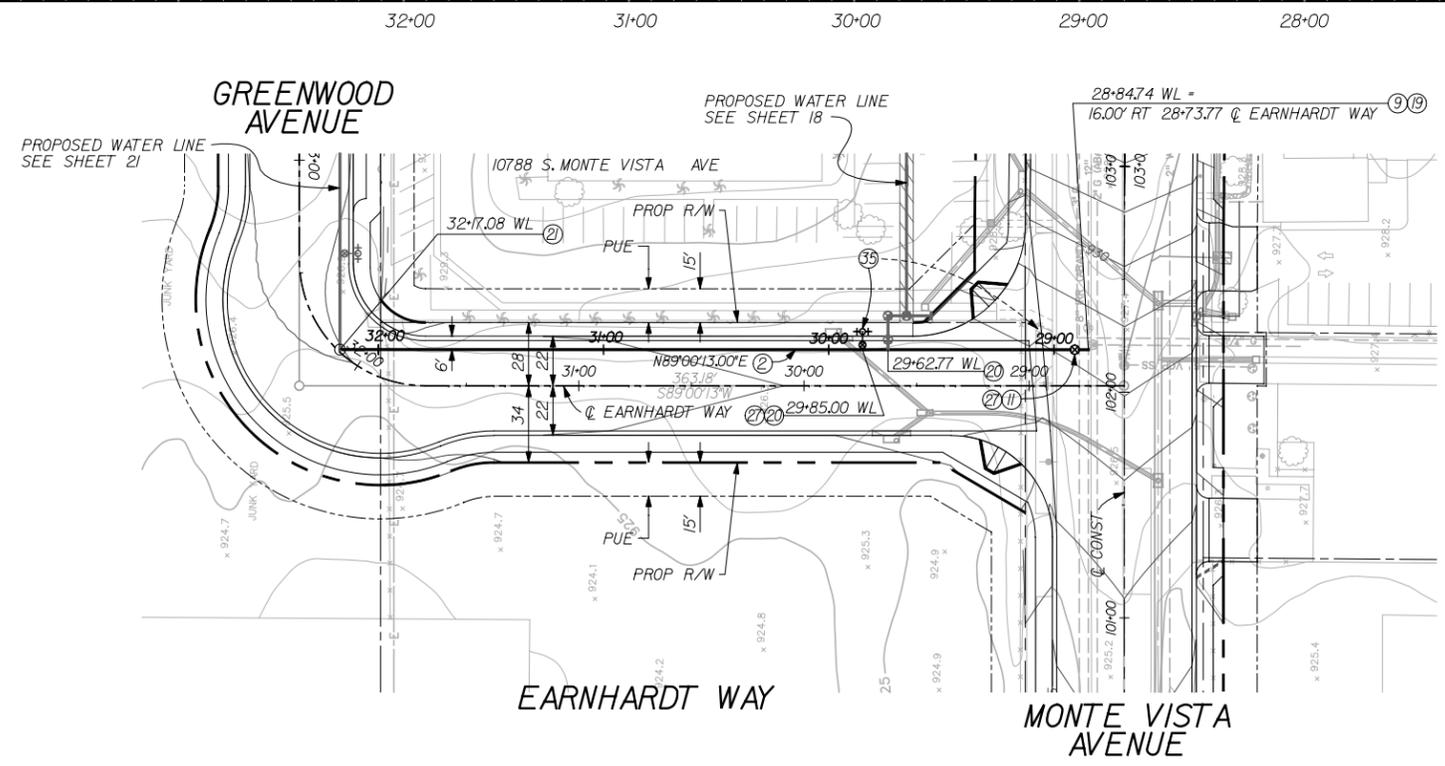
**MONTE VISTA AVENUE  
GRADE SEPARATION**

**WATER IMPROVEMENTS  
BROOKS STREET**

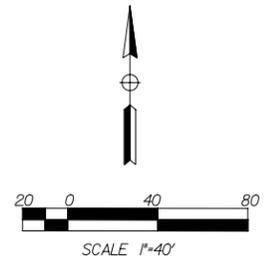
CITY FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SHEET 19 OF 82 SHEETS



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



- WATER CONSTRUCTION NOTES**
- ② CONSTRUCT 12" WELDED STEEL PIPE, CLASS 200, 10 GAGE, CML&C
  - ⑧ CONNECT TO EXISTING WATERLINE - LAP WELD
  - ⑪ INSTALL 12" GATE VALVE; FLANGED
  - ⑫ INSTALL 12" X 12" X 12" TEE; FLANGED - WELDED
  - ⑬ INSTALL 12" X 12" X 6" TEE; FLANGED - WELDED
  - ⑭ INSTALL 12" - 90° BEND; WELDED
  - ⑰ SLIP-ON WELD FLANGE
  - ⑳ SALVAGE EXISTING FIRE HYDRANT. RE-INSTALL WITH NEW VALVE, PIPING AND FITTINGS PER STD. DWG. NO. MWWD-11



100% SUBMITTAL  
 NOT FOR CONSTRUCTION  
 MARCH 16, 2006

Underground Service Alert  
**MONTE VISTA WATER DISTRICT**  
 10575 CENTRAL AVENUE  
 MONTCLAIR, CALIFORNIA 91763  
 (909) 624-0035

Call: TOLL FREE  
 1-800  
 422-4133

APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_

**DOUGLAS ENGINEERING**  
 414 TENNESSEE ST, SUITE "G"  
 REDLANDS, CA 92373

DOUGLAS H. MAYS P.C.E. 21062  
 MY LICENSE EXPIRES 09-30-07

DATE \_\_\_\_\_

**LAN LIM & NASCIMENTO ENG. CORP.**  
 1887 BUSINESS CENTER DR, STE 6  
 SAN BERNARDINO, CA 92408

REGISTERED PROFESSIONAL ENGINEER  
 DOUGLAS H. MAYS  
 No. C 21062  
 Exp. 09/30/07  
 CIVIL  
 STATE OF CALIFORNIA

LAN ENG JOB NO. COFM0202

MARK	REVISIONS	BY	APPR.	DATE

APPROVED \_\_\_\_\_ 2004

MICHAEL HUDSON, P.E.  
 CITY ENGINEER, CITY OF MONTCLAIR  
 REGISTERED CIVIL ENGINEER NO. \_\_\_\_\_  
 MY LICENSE EXPIRES \_\_\_\_\_

DRAWN BY: ESG

CHECKED BY: DM

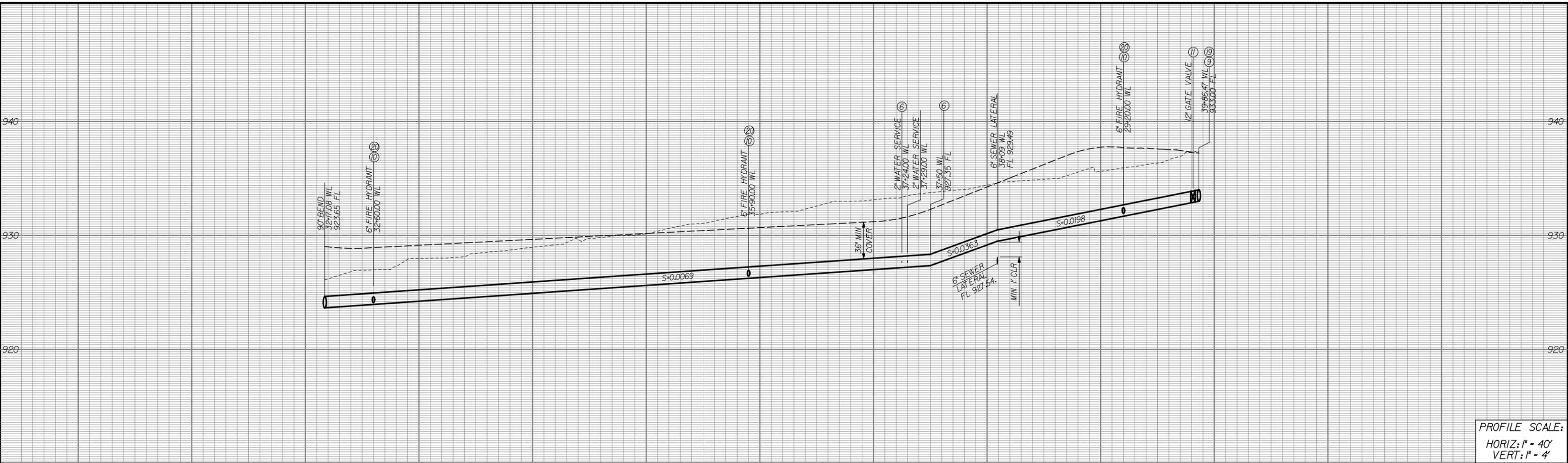
RECOMMENDED BY: \_\_\_\_\_

**CITY OF MONTCLAIR**  
 DEVELOPMENT SERVICES DEPARTMENT

**MONTE VISTA AVENUE**  
 GRADE SEPARATION

**WATER IMPROVEMENTS**  
 EARNHARDT WAY

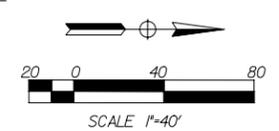
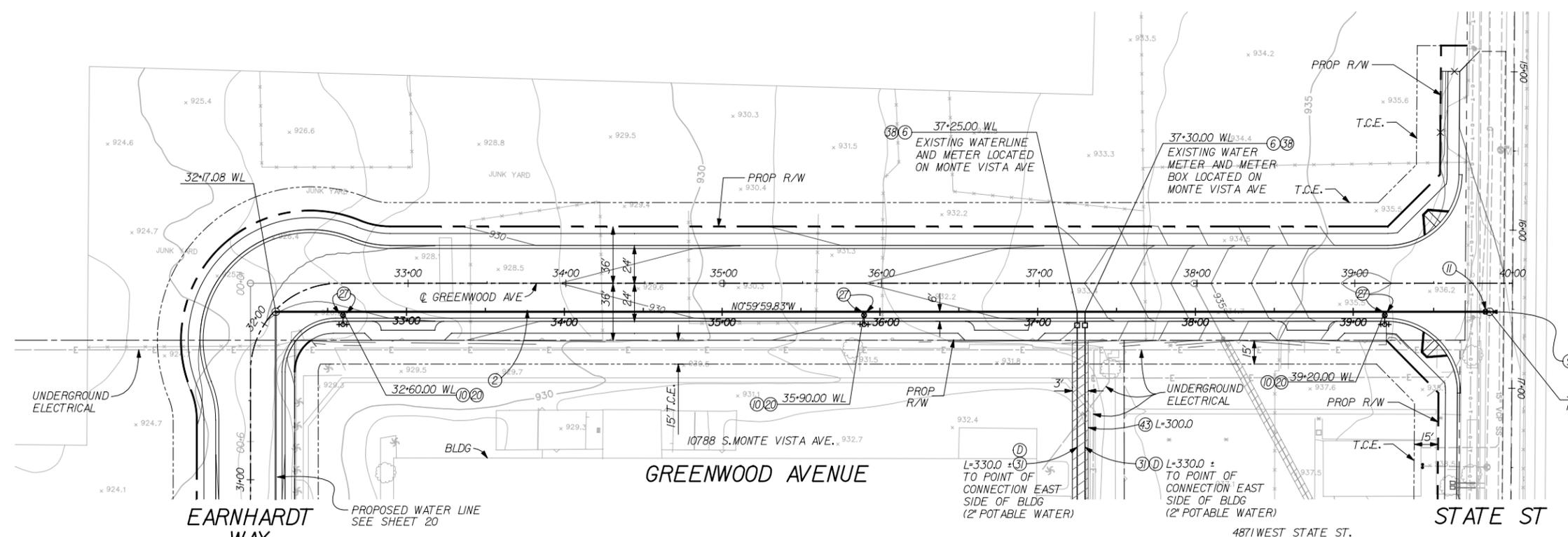
CITY FILE NO \_\_\_\_\_  
 DRAWING NO \_\_\_\_\_  
 SHEET 20 OF 82 SHEETS



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

**WATER CONSTRUCTION NOTES**

- (2) CONSTRUCT 12" WELDED STEEL PIPE, CLASS 200, 10 GAGE, CML&C
  - (6) CONSTRUCT 2" WATER SERVICE INSTALLATION PER STD. DWG. NO. MWW-6
  - (9) CONNECT TO EXISTING WATERLINE - LAP WELD
  - (10) INSTALL WATER HYDRANT ASSEMBLY PER STD. DWG. NO. MWW-11
  - (11) INSTALL 12" GATE VALVE; FLANGED
  - (19) INSTALL 12" X 12" X 12" TEE; FLANGED - WELDED
  - (20) INSTALL 12" X 12" X 6" TEE; FLANGED - WELDED
  - (27) SLIP-ON WELD FLANGE
  - (31) LOCATE EXISTING WATER SERVICE; CONSTRUCT NEW 2" GALVANIZED STEEL PIPE WATER SERVICE LATERAL AND CONNECT TO EXISTING ON-SITE WATER SERVICE LATERAL PER STD. DWG. NO. MWW-6
  - (38) INSTALL WATER METER & METER BOX; RE-INSTALL WITH NEW PIPING & FITTINGS PER STD. DWG. NO. MWW-5 OR MWW-6
  - (43) SAW CUT, REMOVE EXISTING PAVEMENT AND REPLACE STRUCTURAL SECTION IN KIND, MINIMUM 3" ASPHALT CONCRETE PAVEMENT OVER 6" OF CLASS 2 AGGREGATE BASE. MINIMUM COVER IS 30".
- NOTICE TO CONTRACTOR**  
 (D) CONTRACTOR SHALL VERIFY PIPING AND FITTINGS, SIZE, AND LOCATION OF EXISTING, POTABLE WATER, IRRIGATION LINE CONNECTIONS, INCLUDING FIRE SERVICE LATERALS BEFORE ORDERING MATERIALS



**100% SUBMITTAL  
 NOT FOR CONSTRUCTION  
 MARCH 16, 2006**

Underground Service Alert  
 Call: TOLL FREE 1-800-422-4133

**MONTE VISTA WATER DISTRICT**  
 10575 CENTRAL AVENUE  
 MONTCLAIR, CALIFORNIA 91763  
 (909) 624-0035

APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_

**DOUGLAS ENGINEERING**  
 414 TENNESSEE ST, SUITE "G"  
 REDLANDS, CA 92373

DOUGLAS H. MAYS P.C.E., 21062  
 MY LICENSE EXPIRES 09-30-07

DATE \_\_\_\_\_

**LAN LIM & NASCIMENTO ENG. CORP.**  
 1887 BUSINESS CENTER DR, STE 6  
 SAN BERNARDINO, CA 92408

LAN ENG JOB NO. COFM0202

MARK	REVISIONS	BY	APPR.	DATE

APPROVED \_\_\_\_\_ 2004

MICHAEL HUDSON, P.E.  
 CITY ENGINEER, CITY OF MONTCLAIR  
 REGISTERED CIVIL ENGINEER NO. \_\_\_\_\_  
 MY LICENSE EXPIRES \_\_\_\_\_

DRAWN BY: ESG

CHECKED BY: DM

RECOMMENDED BY: \_\_\_\_\_

**CITY OF MONTCLAIR**  
 DEVELOPMENT SERVICES DEPARTMENT

**MONTE VISTA AVENUE  
 GRADE SEPARATION**

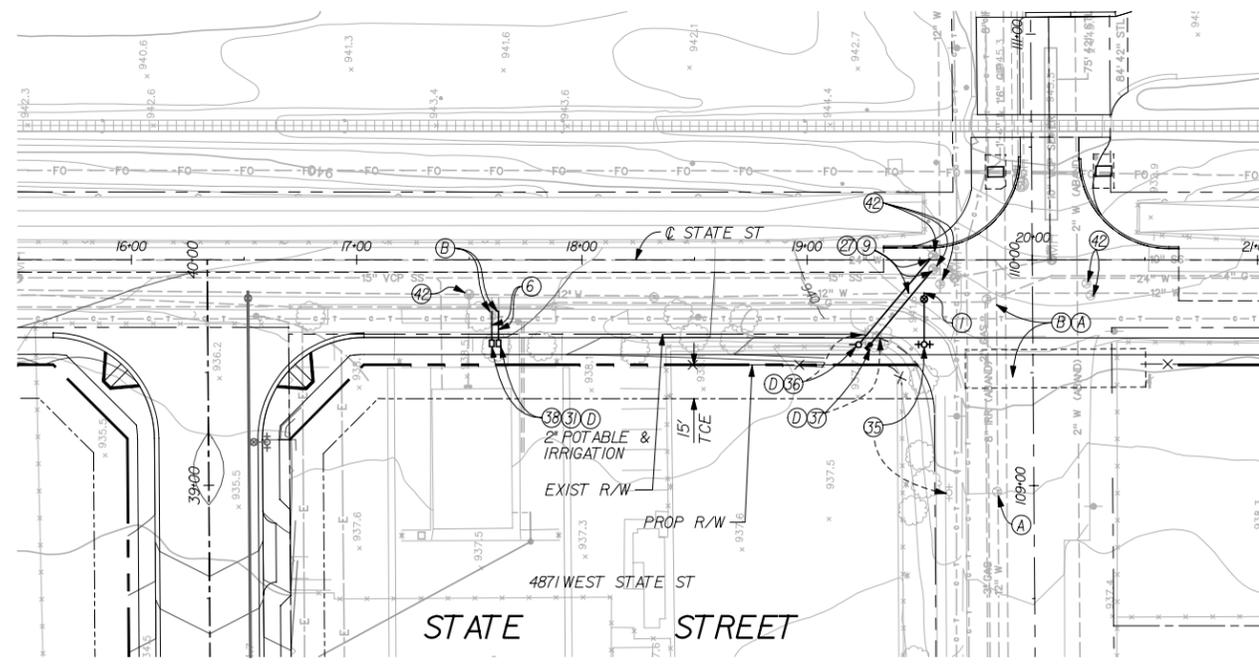
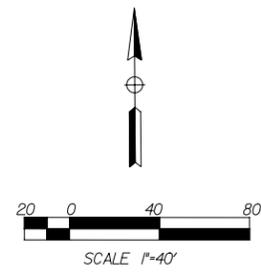
**WATER IMPROVEMENTS  
 GREENWOOD AVENUE**

CITY FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SHEET 21 OF 82 SHEETS

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

**WATER CONSTRUCTION NOTES**

- ① INSTALL 12" X 6" HOT TAP WITH 6" VALVE
  - ⑥ CONSTRUCT 2" WATER SERVICE INSTALLATION PER STD. DWG. NO. MWWD-6
  - ⑨ CONNECT TO EXISTING WATERLINE - LAP WELD
  - ⑫ INSTALL 12" - 45° BEND; WELDED
  - ⑰ SLIP-ON WELD FLANGE
  - ⑳ LOCATE EXISTING WATER SERVICE; CONSTRUCT NEW 2" OR 1 1/2" GALVANIZED STEEL PIPE WATER SERVICE LATERAL AND CONNECT TO EXISTING ON-SITE WATER SERVICE LATERAL PER STD. DWG. NO. MWWD-6
  - ㉓ SALVAGE EXISTING FIRE HYDRANT. RE-INSTALL WITH NEW VALVE, PIPING AND FITTINGS PER STD. DWG. NO. MWWD-11
  - ㉔ SALVAGE EXISTING 4" AIR RELEASE VALVE AND ABOVE GROUND APPURTANCES; RE-INSTALL WITH NEW PIPING BEHIND CURB, EXTEND LATERAL FROM VALVE AND ADJUST RISER AS REQUIRED TO RELOCATE PER STD. DWG. NO. MWWD-15
  - ㉕ SALVAGE EXISTING 6" BLOW-OFF ASSEMBLY AND ABOVE GROUND APPURTANCES; RE-INSTALL WITH NEW PIPING AND FITTINGS BEHIND CURB, EXTEND LATERAL FROM VALVE AND ADJUST RISER AS REQUIRED TO RELOCATE PER STD. DWG. NO. MWWD-16
  - ㉘ INSTALL WATER METER & METER BOX; RE-INSTALL WITH NEW PIPING & FITTINGS PER STD. DWG. NO. MWWD-5 OR MWWD-6
  - ㉚ ADJUST EXISTING VALVE CAN AND COVER TO FINISH GRADE
- REMOVALS**
- (A) ABANDON WATERLINE AND APPURTANCES PER SECTION 306-5, ABANDONMENT OF CONDUITS AND STRUCTURES, OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
  - (B) REMOVE INTERFERING PORTIONS OF EXISTING WATERLINE
- NOTICE TO CONTRACTOR**
- (D) CONTRACTOR SHALL VERIFY PIPING AND FITTINGS, SIZE, AND LOCATION OF EXISTING POTABLE WATER, IRRIGATION LINE CONNECTIONS, INCLUDING FIRE SERVICE LATERALS BEFORE ORDERING MATERIALS



GREENWOOD AVE

MONTE VISTA AVE

100% SUBMITTAL  
 NOT FOR CONSTRUCTION  
 MARCH 16, 2006

Underground Service Alert  
  
 Call: TOLL FREE  
 1-800  
 422-4133  
 TWO WORKING DAYS BEFORE YOU DIG

**MONTE VISTA WATER DISTRICT**  
 10575 CENTRAL AVENUE  
 MONTCLAIR, CALIFORNIA 91763  
 (909) 624-0035  
 APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_

**DOUGLAS ENGINEERING**  
 414 TENNESSEE ST, SUITE "G"  
 REDLANDS, CA 92373  
 DOUGLAS H. MAYS P.C.E. 21062  
 MY LICENSE EXPIRES 09-30-07  
 DATE \_\_\_\_\_

**LAN LIM & NASCIMENTO ENG. CORP.**  
 1887 BUSINESS CENTER DR, STE 6  
 SAN BERNARDINO, CA 92408  
 LAN ENG JOB NO. COFM0202

MARK	REVISIONS	BY	APPR.	DATE

APPROVED \_\_\_\_\_ 2004  
 MICHAEL HUDSON, P.E.  
 CITY ENGINEER, CITY OF MONTCLAIR  
 REGISTERED CIVIL ENGINEER NO. \_\_\_\_\_  
 MY LICENSE EXPIRES \_\_\_\_\_  
 DRAWN BY: ESG  
 CHECKED BY: DM  
 RECOMMENDED BY: \_\_\_\_\_

**CITY OF MONTCLAIR**  
 DEVELOPMENT SERVICES DEPARTMENT  
**MONTE VISTA AVENUE**  
**GRADE SEPARATION**  
**WATER IMPROVEMENTS**  
 STATE STREET

CITY FILE NO \_\_\_\_\_  
 DRAWING NO \_\_\_\_\_  
 SHEET 22 OF 82 SHEETS

**GENERAL NOTES P.R.V. SYSTEM**

**P.R.V. Station per Monte Vista Water District Standard**

1. WELDED PIPE LENGTHS TO BE USED ONLY UPON APPROVAL BY MWWD.
2. WELDED LENGTHS INDICATED ARE TO BE PROVIDED ON EACH SIDE OF BEND.
3. ALL JOINTS WITHIN THE LENGTHS INDICATED SHALL BE FULL WELD, DOUBLE PASS.
4. DEAD END THRUST IS EQUIVALENT TO A 60° BEND.
5. FOR SERVICE LATERALS, INCLUDING FIRE HYDRANTS, FIRE SERVICES, BLOW-OFFS ETC., FULLY WELD ALL MAINLINE JOINTS (DOUBLE PASS) 10' MINIMUM EACH SIDE OF TEE OUTLET.

THE FOLLOWING ASSUMPTIONS APPLY

1. LENGTH OF WELDED PIPE IS FOR EACH SIDE OF BEND USING THE FOLLOWING EQUATION:

$$L = 15PA \frac{(1 - \cos \theta)}{[2(W_p + W_w)]} \quad w \quad p$$

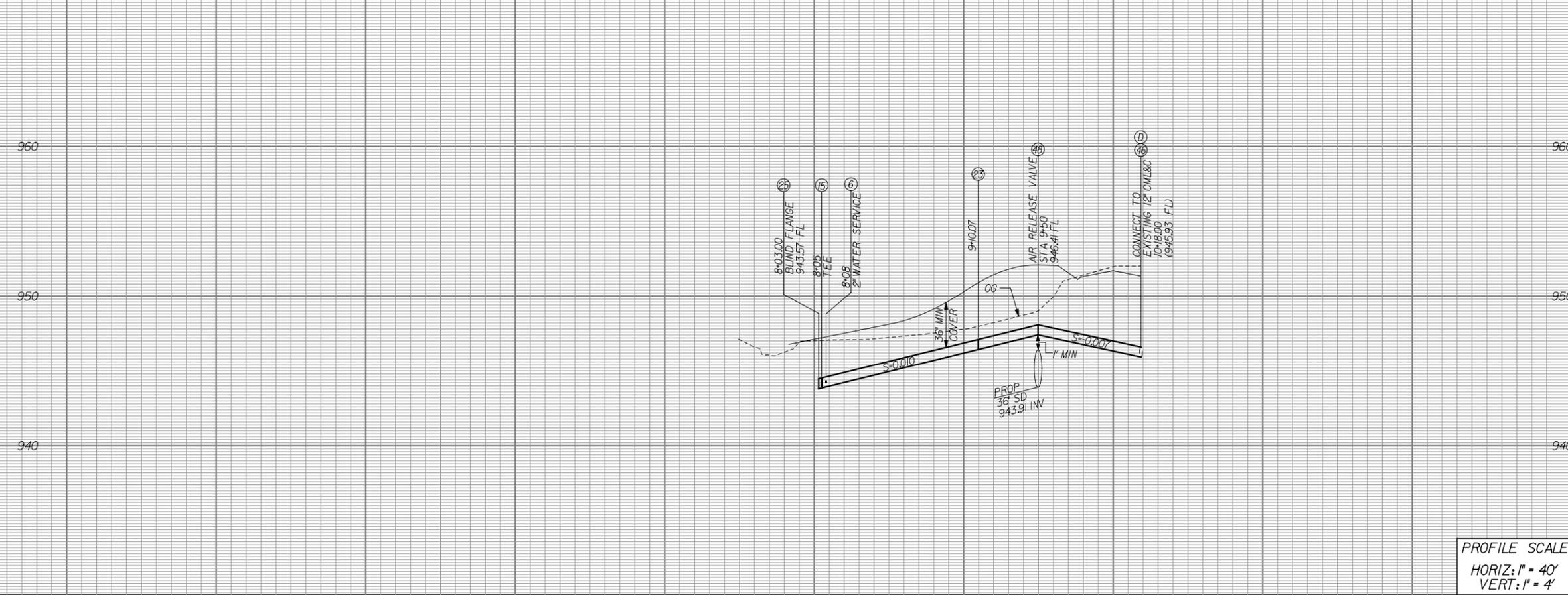
- WHERE:
- P = MAXIMUM TEST PRESSURE (PSI)
  - A = CROSS-SECTION AREA OF THE PIPE (SQ. IN)
  - $\theta$  = ANGLE OF BEND (DEGREES)
  - U = COEFF. OF FRICTION BETWEEN PIPE AND SOIL (ASSUMED 0.3)
  - $W_p$  = WEIGHT OF THE PRISM OR SOIL OVER THE PIPE (LB/FT.) OF PIPE LENGTH (WT. OF SOIL ASSUMED TO BE 110 LB/CU. FT.)
  - $W_w$  = WEIGHT OF THE PIPE (LB/FT.)
  - $W_w$  = WEIGHT OF THE CONTAINED WATER (LB/FT.)

2. MINIMUM PIPE COVER FOR PIPE DIAMETERS < 12", 4" MINIMUM PIPE COVER FOR PIPE DIAMETERS > 12"
3. FACTOR OF SAFETY = 1.5 TIMES MAXIMUM TEST PRESSURE
4. MAXIMUM ANGLE (A) USED FOR EACH RANGE SHOWN

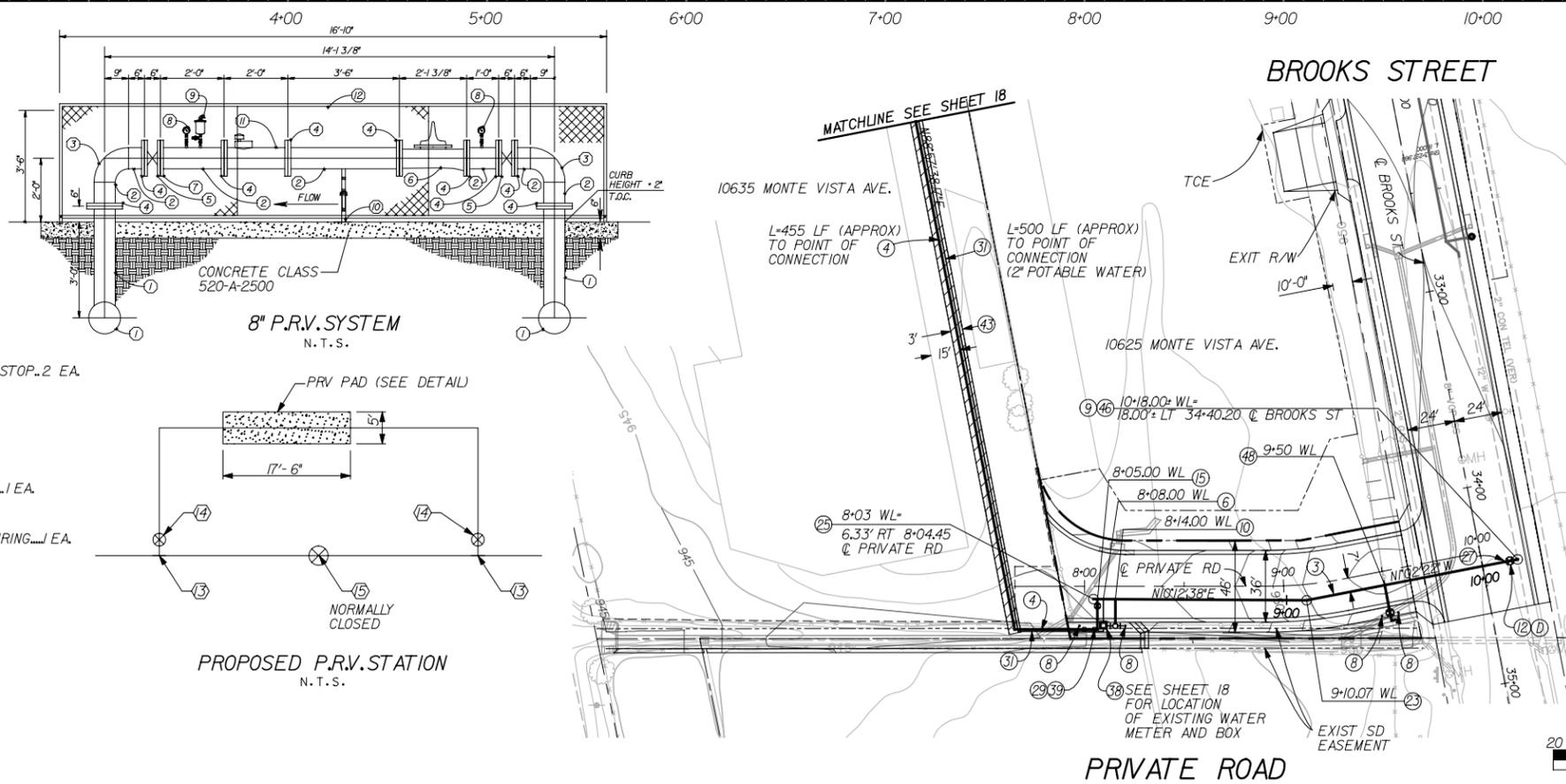
PIPE DIA.	0-22.5°	22.5-45°	45-67.5°	76.5-90°
4"	10'	30'	50'	105'
6"	15'	45'	95'	150'
8"	15'	60'	125'	160'
10"	20'	75'	150'	240'
12"	20'	70'	140'	230'
14"	20'	80'	165'	265'
16"	25'	90'	185'	295'
18"	25'	100'	205'	330'
20"	30'	105'	225'	360'
24"	35'	125'	260'	420'
30"	40'	150'	310'	505'
36"	45'	170'	360'	580'

**P.R.V. SYSTEM MATERIALS LIST**

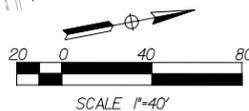
1. INSTALL 8" DIA. STEEL PIPE, 10 GA MIN. CML & CMC.....32 LF.
2. INSTALL 8-5/8" O.D. STEEL PIPE, STD. WT., CML & CMC OR CML & PAINTED.....18 LF.
3. INSTALL 8" STEEL 90° WELD ELBOW, STD. WT., CML & CMC.....4 EA.
4. INSTALL 8" STEEL SLIP-ON WELD FLANGE, CL. 150.....9 EA.
5. INSTALL 8" BUTTERFLY VALVE, FLANGED, CL. 150, W/HANDWHEEL OPERATOR.....2 EA.
6. INSTALL 8" PRESSURE REGULATING VALVE, FLANGED, CL. 150.....1 EA.
7. INSTALL 8" VICTAULIC FLANGE, STYLE 743.....1 EA.
8. INSTALL LIQUID FILLED PRESSURE GAUGE ASSEMBLY WITH 3/4" COUPLING AND CORP. STOP.....2 EA.
9. INSTALL 1" AIR RELEASE VALVE APCO, MODEL 200A WITH 1" COUPLING.....1 EA. AND CORP. STOP.
10. INSTALL PIPE SUPPORT PER MWWD STD. DWG. NO. MWWD-21.....1 EA.
11. INSTALL 8" FLANGED WATER SPECIALTIES MODEL NO. ML-04-D FLOWMETER, REGISTER.....1 EA. IN GPM AND TOTALIZE IN 100'S CUBIC FEET.
12. INSTALL 20 1/8" L x 30" W x 42" D FABRICATED ENCLOSURE PER LEMEUR MANUFACTURING.....1 EA.
13. INSTALL 12 x 12 x 8 A.W.W. TEE.....2 EA.
14. INSTALL 8" GATE VALVE PER MWWD STD. DWG. NO. MWWD-12.....2 EA.
15. INSTALL 12" GATE VALVE PER MWWD STD. DWG. NO. MWWD-12.....1 EA.



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



- WATER CONSTRUCTION NOTES**
3. CONSTRUCT 8" WELDED STEEL PIPE, CLASS 200, 10 GAGE, CML&C
  4. CONSTRUCT 6" WELDED STEEL PIPE, CLASS 200, 10 GAGE, CML&C
  6. CONSTRUCT 2" WATER SERVICE INSTALLATION PER STD. DWG. NO. MWWD-6
  8. CONSTRUCT 4" STEEL PIPE GUARD POST FILLED WITH CONCRETE PER STD. DWG. MWWD-20
  9. CONNECT TO EXISTING WATERLINE - LAP WELD
  10. INSTALL FIRE HYDRANT ASSEMBLY PER STD. DWG. NO. MWWD-11
  12. INSTALL 8" GATE VALVE; FLANGED
  16. INSTALL 8" X 8" X 6" TEE; FLANGED - WELDED
  23. INSTALL 8" - 11.25 BEND; WELDED
  25. INSTALL 8" BLIND FLANGE; FLANGED
  27. SLIP-ON WELD FLANGE
  28. INSTALL 4" GALVANIZED STEEL PIPE FIRE DEPARTMENT SERVICE LATERAL CONNECTION ON PRIVATE SIDE OF DOUBLE DETECTOR CHECK ASSEMBLY BACKFLOW PREVENTION DEVICE
  29. INSTALL 2 1/2" X 2 1/2" X 4" FIRE DEPARTMENT CONNECTION WITH POST INDICATOR AND VALVES
  31. LOCATE EXISTING WATER SERVICE; CONSTRUCT NEW 2" GALVANIZED STEEL PIPE WATER SERVICE LATERAL AND CONNECT TO EXISTING ON-SITE WATER SERVICE LATERAL PER STD. DWG. NO. MWWD-6
  38. INSTALL WATER METER & METER BOX; RE-INSTALL WITH NEW PIPING & FITTINGS PER STD. DWG. NO. MWWD-5 OR MWWD-8
  39. INSTALL 6" DOUBLE DETECTOR CHECK ASSEMBLY BACKFLOW PREVENTION DEVICE PER STD. DWG. NO. MWWD-9 AND MWWD-10
  43. SAW CUT, REMOVE EXISTING PAVEMENT AND REPLACE STRUCTURAL SECTION IN KIND, MINIMUM 3" ASPHALT CONCRETE PAVEMENT OVER 6" OF CLASS 2 AGGREGATE BASE. MINIMUM COVER IS 30".
  46. 12" X 8" CML&C HOT TAP; BY MONTE VISTA WATER DISTRICT
  48. INSTALL 2" AIR VALVE, INSTALLATION PER STD. DWG. MWWD-14
  49. INSTALL 8" X 8" X 4" TEE-WELDED
- NOTICE TO CONTRACTOR**
- (D) CONTRACTOR SHALL VERIFY PIPING AND FITTINGS, SIZE, AND LOCATION OF EXISTING POTABLE WATER, IRRIGATION AND LINE CONNECTIONS INCLUDING FIRE SERVICE LATERALS BEFORE ORDERING MATERIALS



100% SUBMITTAL  
NOT FOR CONSTRUCTION  
MARCH 16, 2006

Underground Service Alert

**MONTE VISTA WATER DISTRICT**  
10575 CENTRAL AVENUE  
MONTCLAIR, CALIFORNIA 91763  
(909) 624-0035

Call: TOLL FREE  
1-800-422-4133

APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_

**DOUGLAS ENGINEERING**  
414 TENNESSEE ST, SUITE "G"  
REDLANDS, CA 92373

DOUGLAS H. MAYS P.E., C.E., 21062  
MY LICENSE EXPIRES 09-30-07

DATE \_\_\_\_\_

REGISTERED PROFESSIONAL ENGINEER  
DOUGLAS H. MAYS  
No. C 21062  
Exp. 09/30/07  
CIVIL  
STATE OF CALIFORNIA

**IAN LIM & NASCIMENTO ENG. CORP.**  
1887 BUSINESS CENTER DR, STE 6  
SAN BERNARDINO, CA 92408

LAN ENG JOB NO. COFM0202

MARK	REVISIONS	BY	APPR.	DATE

APPROVED \_\_\_\_\_ 2004

MICHAEL HUDSON, P.E.  
CITY ENGINEER, CITY OF MONTCLAIR  
REGISTERED CIVIL ENGINEER NO. \_\_\_\_\_  
MY LICENSE EXPIRES \_\_\_\_\_

DRAWN BY: ESG

CHECKED BY: DM

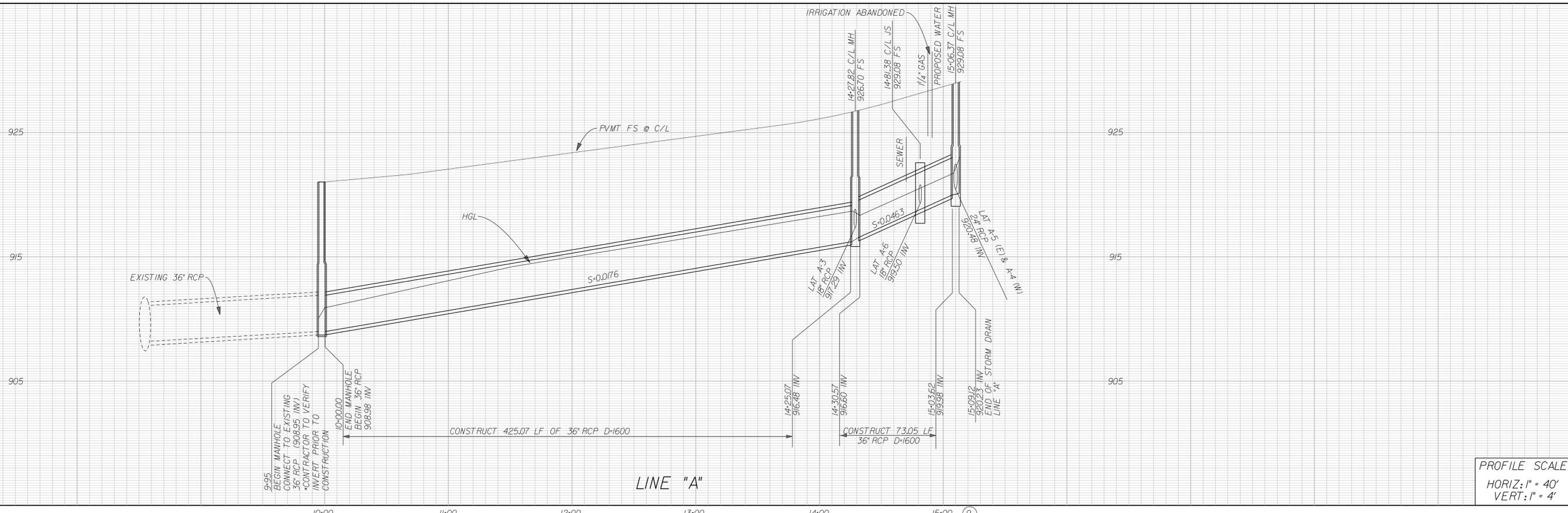
RECOMMENDED BY: \_\_\_\_\_

CITY OF MONTCLAIR  
DEVELOPMENT SERVICES DEPARTMENT

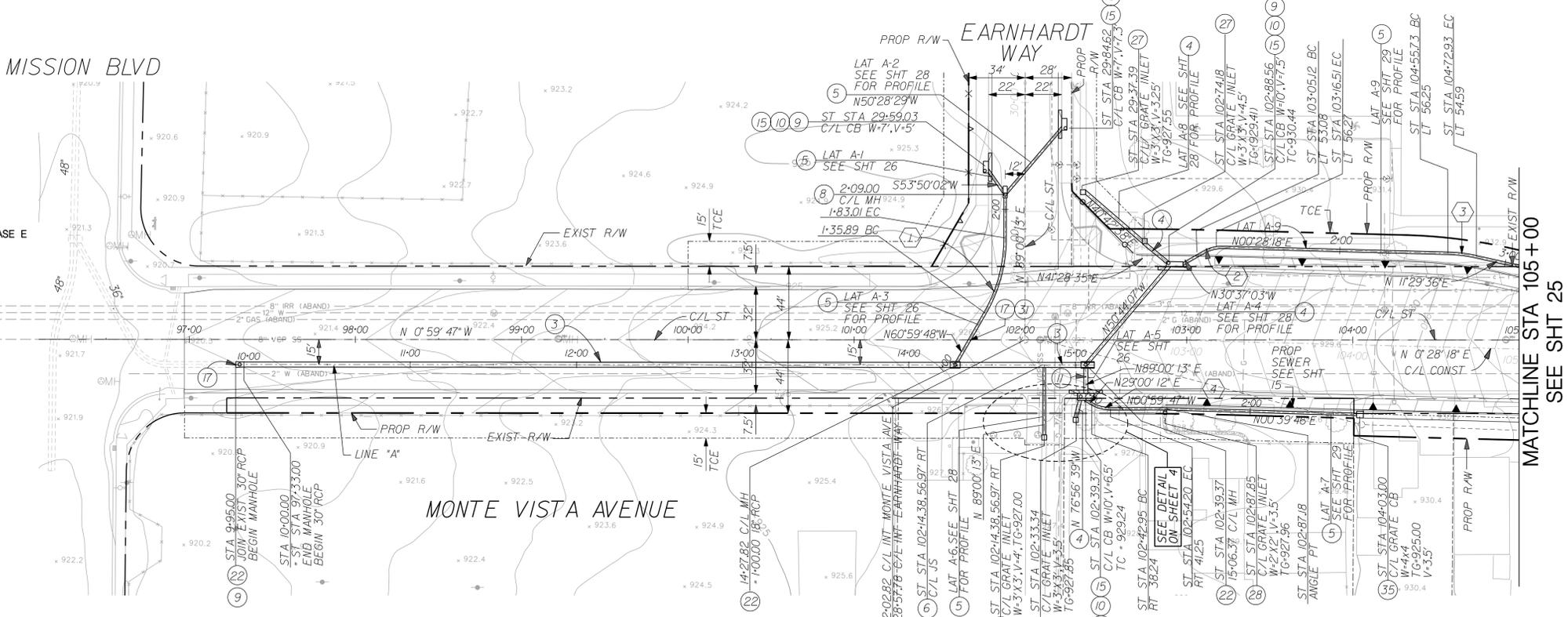
**MONTE VISTA AVENUE  
GRADE SEPARATION**

WATER IMPROVEMENTS  
PRIVATE ROAD

CITY FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SHEET 23 OF 82 SHEETS

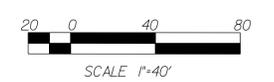


- CONSTRUCTION NOTES**
- ③ CONSTRUCT 36" RCP
  - ④ CONSTRUCT 24" RCP
  - ⑤ CONSTRUCT 18" RCP
  - ⑥ CONSTRUCT JUNCTION STRUCTURE PER APWA STD PLAN 332-1
  - ⑧ CONSTRUCT MANHOLE PER APWA STD PLAN 321-1
  - ⑨ CONSTRUCT 36-INCH MANHOLE FRAME AND COVER PER APWA STD PLAN 633-3
  - ⑩ CONSTRUCT CATCH BASIN PER APWA STD PLAN 300-2
  - ⑪ CONSTRUCT 30" RCP
  - ⑮ CONSTRUCT LOCAL DEPRESSION PER APWA STD PLAN 313-0, CASE E
  - ⑰ CONSTRUCT CONCRETE COLLAR PER APWA STD PLAN 380-2
  - ⑳ CONSTRUCT MANHOLE PER APWA STD PLAN 320-1
  - ㉓ CONSTRUCT 3'X3' PRECAST CATCH BASIN W/TRAFFIC GRATE, BROOKS PRODUCT OR APPROVED EQUAL
  - ㉔ CONSTRUCT 2'X2' BROOKS GRATED INLET W/TRAFFIC GRATE
  - ㉕ CONSTRUCT CONCRETE ENCASING
  - ㉖ CONSTRUCT 4'x4' BROOKS GRATED INLET W/TRAFFIC GRATE

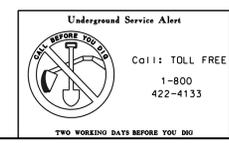


**CURVE DATA**

NO	△	R	L	T
1		90'00"00"	30.00'	47.12'
2		31'05"21"	22.50'	12.21'
3		11'01"18"	90.00'	17.31'
4		30'00"00"	22.50'	11.78'



**100% SUBMITTAL**  
**NOT FOR CONSTRUCTION**  
 MARCH 16, 2006



**LAN LIM & NASCIMENTO ENG. CORP.**  
 1887 BUSINESS CENTER DR, STE 6  
 SAN BERNARDINO, CA 92408

DATE \_\_\_\_\_

LAN ENG JOB NO. COFM0202

MARK	REVISIONS	BY	APPR.	DATE

APPROVED \_\_\_\_\_ 2004

MICHAEL HUDSON, P.E.  
 CITY ENGINEER, CITY OF MONTCLAIR  
 REGISTERED CIVIL ENGINEER NO. \_\_\_\_\_  
 MY LICENSE EXPIRES \_\_\_\_\_

DRAWN BY: ESG

CHECKED BY: PG

RECOMMENDED BY: \_\_\_\_\_

CITY OF MONTCLAIR  
 DEVELOPMENT SERVICES DEPARTMENT

**MONTE VISTA AVENUE**  
**GRADE SEPARATION**

STORM DRAIN IMPROVEMENTS  
 LINE "A"

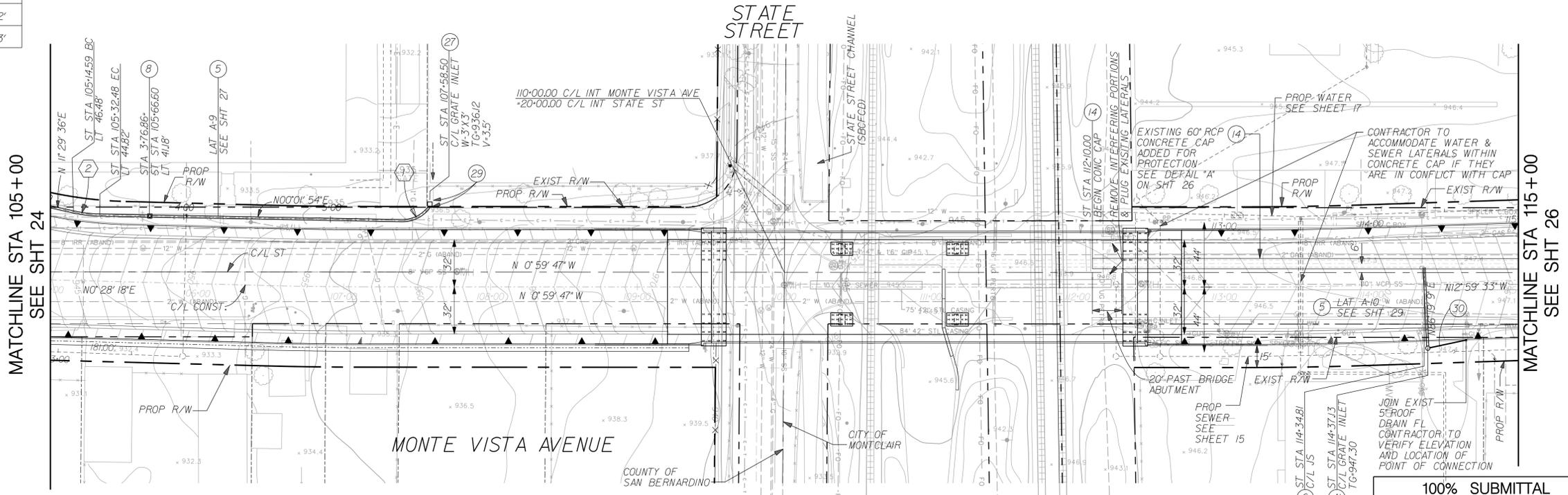
CITY FILE NO \_\_\_\_\_  
 DRAWING NO \_\_\_\_\_  
 SHEET 24 OF 82 SHEETS

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

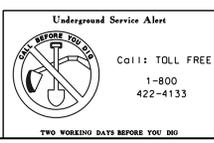
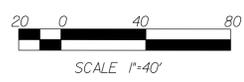
CURVE DATA				
NO	△	R	L	T
1	56°37'38"	22.50'	22.24'	12.12'
2	11°27'42"	90.00'	18.00'	9.03'

**CONSTRUCTION NOTES**

- 5 CONSTRUCT 18" RCP
- 6 CONSTRUCT JUNCTION STRUCTURE PER APWA STD PLAN 332-1
- 8 CONSTRUCT MANHOLE SHAFT PER APWA STD PLAN 321-1
- 14 CONSTRUCT CONCRETE CAP OVER EXISTING 60" RCP, PER DETAIL "A" ON SHEET 26
- 27 CONSTRUCT 3'X3' PRECAST CATCH BASIN W/TRAFFIC GRATE, BROOKS PRODUCT OR APPROVED EQUAL
- 28 CONSTRUCT 2'X2' BROOKS GRATED INLET W/TRAFFIC GRATE
- 29 SAWCUT AND REMOVE EXIST 3" RECTANGULAR PCC GUTTER TO ACCOMODATE DRAINAGE INLET
- 30 INSTALL 5" PVC (SCH 40)
- 41 CONSTRUCT PIPE INLET TYPE GCP PER CALTRANS STD PLAN D75B



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 MARCH 16, 2006



**LAN LIM & NASCIMENTO ENG. CORP.**  
 1887 BUSINESS CENTER DR, STE 6  
 SAN BERNARDINO, CA 92408

PORTIA GONZALEZ R.C.E. 52302  
 MY LICENSE EXPIRES 12-31-06

DATE \_\_\_\_\_

LAN ENG JOB NO. COFM0202

MARK	REVISIONS	BY	APPR.	DATE

APPROVED \_\_\_\_\_ 2004

MICHAEL HUDSON, P.E.  
 CITY ENGINEER, CITY OF MONTCLAIR  
 REGISTERED CIVIL ENGINEER NO. \_\_\_\_\_  
 MY LICENSE EXPIRES \_\_\_\_\_

DRAWN BY: ESG

CHECKED BY: PG

RECOMMENDED BY: \_\_\_\_\_

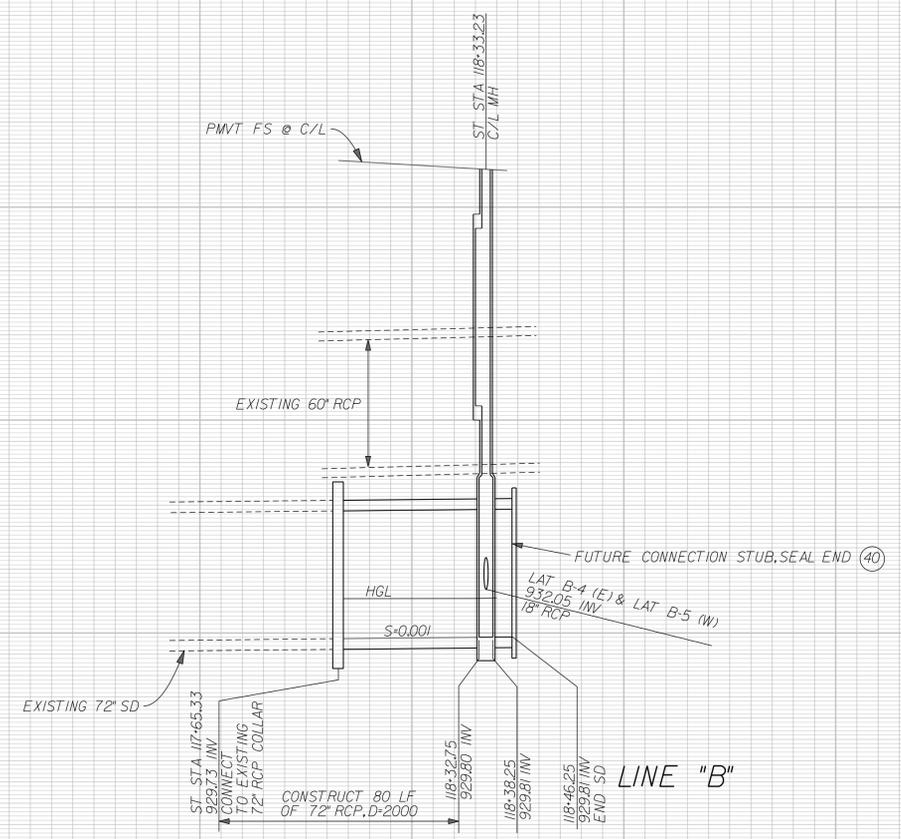
CITY OF MONTCLAIR  
 DEVELOPMENT SERVICES DEPARTMENT

**MONTE VISTA AVENUE  
 GRADE SEPARATION**

STORM DRAIN IMPROVEMENTS  
 LINE "A"

CITY FILE NO \_\_\_\_\_  
 DRAWING NO \_\_\_\_\_  
 SHEET 25 OF 82 SHEETS

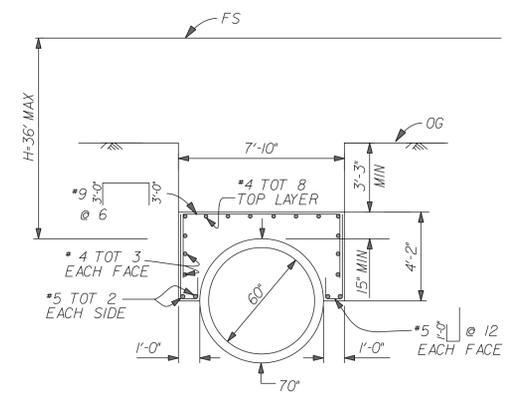
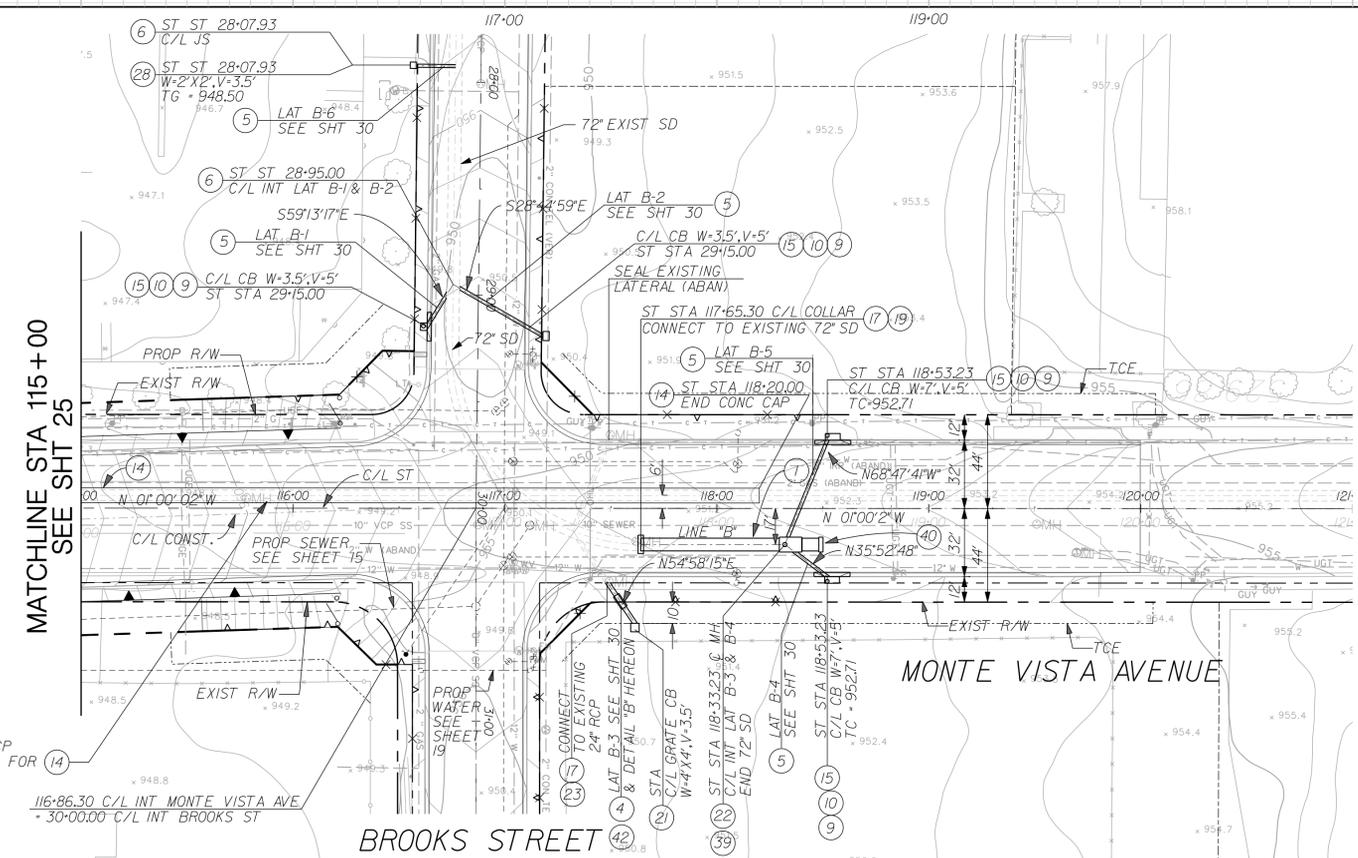
950  
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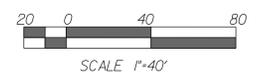
PROFILE SCALE:  
HORIZ: 1" = 40'  
VERT: 1" = 4'

**CONSTRUCTION NOTES**

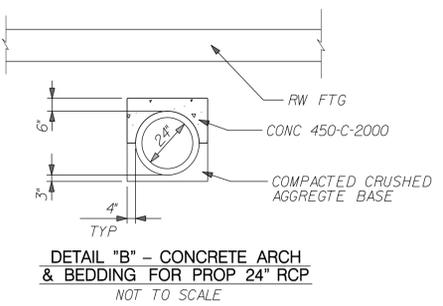
- 1 CONSTRUCT 72" RCP
- 3 CONSTRUCT 36" RCP
- 4 CONSTRUCT 24" RCP
- 5 CONSTRUCT 18" RCP
- 6 CONSTRUCT JUNCTION STRUCTURE PER APWA STD PLAN 332-1
- 9 CONSTRUCT 36-INCH MANHOLE FRAME AND COVER PER APWA STD PLAN 633-3
- 10 CONSTRUCT CATCH BASIN PER APWA STD PLAN 300-2
- 14 CONSTRUCT CONCRETE CAP OVER EXISTING 60" RCP, PER DETAIL "A" ON SHEET 26
- 15 CONSTRUCT LOCAL DEPRESSION PER APWA STD PLAN 313-0, CASE E
- 17 CONSTRUCT CONCRETE COLLAR PER APWA STD PLAN 380-2
- 19 CONNECT TO EXISTING STORM DRAIN PIPE, REMOVE ANY PIPE CLOSURES
- 21 CONSTRUCT GRATING CATCH BASIN PER APWA STD PLAN 305-2
- 22 CONSTRUCT MANHOLE PER APWA STD PLAN 320-1
- 23 REMOVE EXISTING CATCH BASIN
- 28 CONSTRUCT 2'X2' BROOKS GRATED INLET W/TRAFFIC GRATE
- 39 CONSTRUCT SAFETY LEDGE PER APWA STD PLAN 330-1
- 40 CONSTRUCT CONCRETE BULK HEAD PER RCFC STD DRAWING M816
- 42 CONSTRUCT CONCRETE ARCH & BEDDING FOR PROP 24" RCP



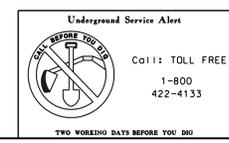
DETAIL "A" - CONCRETE CAP DETAIL PROTECTION FOR EXISTING 60" RCP  
NOT TO SCALE



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MARCH 16, 2006



DETAIL "B" - CONCRETE ARCH & BEDDING FOR PROP 24" RCP  
NOT TO SCALE



**LAN LIM & NASCIMENTO ENG. CORP.**  
1887 BUSINESS CENTER DR. STE 6  
SAN BERNARDINO, CA 92408

PORTIA GONZALEZ R.C.E. 52302  
MY LICENSE EXPIRES 12-31-06

DATE \_\_\_\_\_

LAN ENG JOB NO. COFM0202

MARK	REVISIONS	BY	APPR.	DATE

APPROVED \_\_\_\_\_ 2004

MICHAEL HUDSON, P.E.  
CITY ENGINEER, CITY OF MONTCLAIR  
REGISTERED CIVIL ENGINEER NO. \_\_\_\_\_  
MY LICENSE EXPIRES \_\_\_\_\_

DRAWN BY: ESG

CHECKED BY: PG

RECOMMENDED BY: \_\_\_\_\_

CITY OF MONTCLAIR  
DEVELOPMENT SERVICES DEPARTMENT

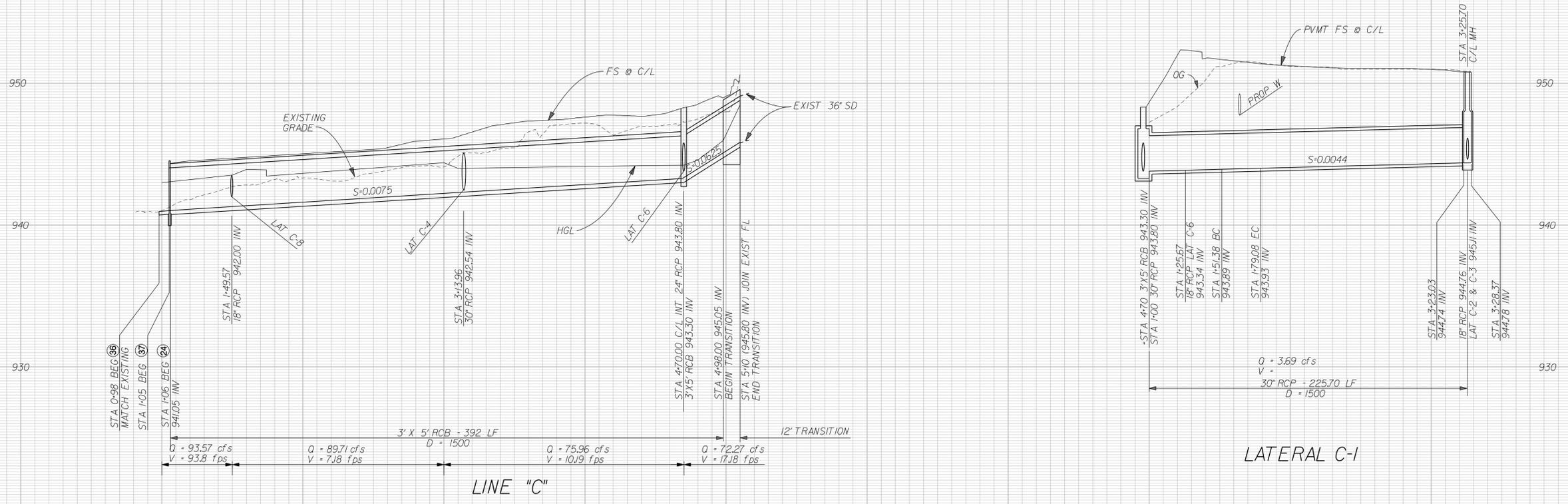
**MONTA VISTA AVENUE  
GRADE SEPARATION**

STORM DRAIN IMPROVEMENTS  
LINE "B"

CITY FILE NO \_\_\_\_\_

DRAWING NO \_\_\_\_\_

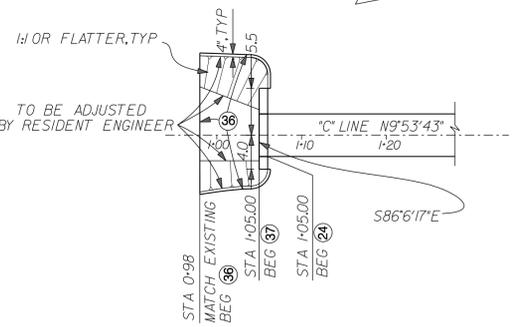
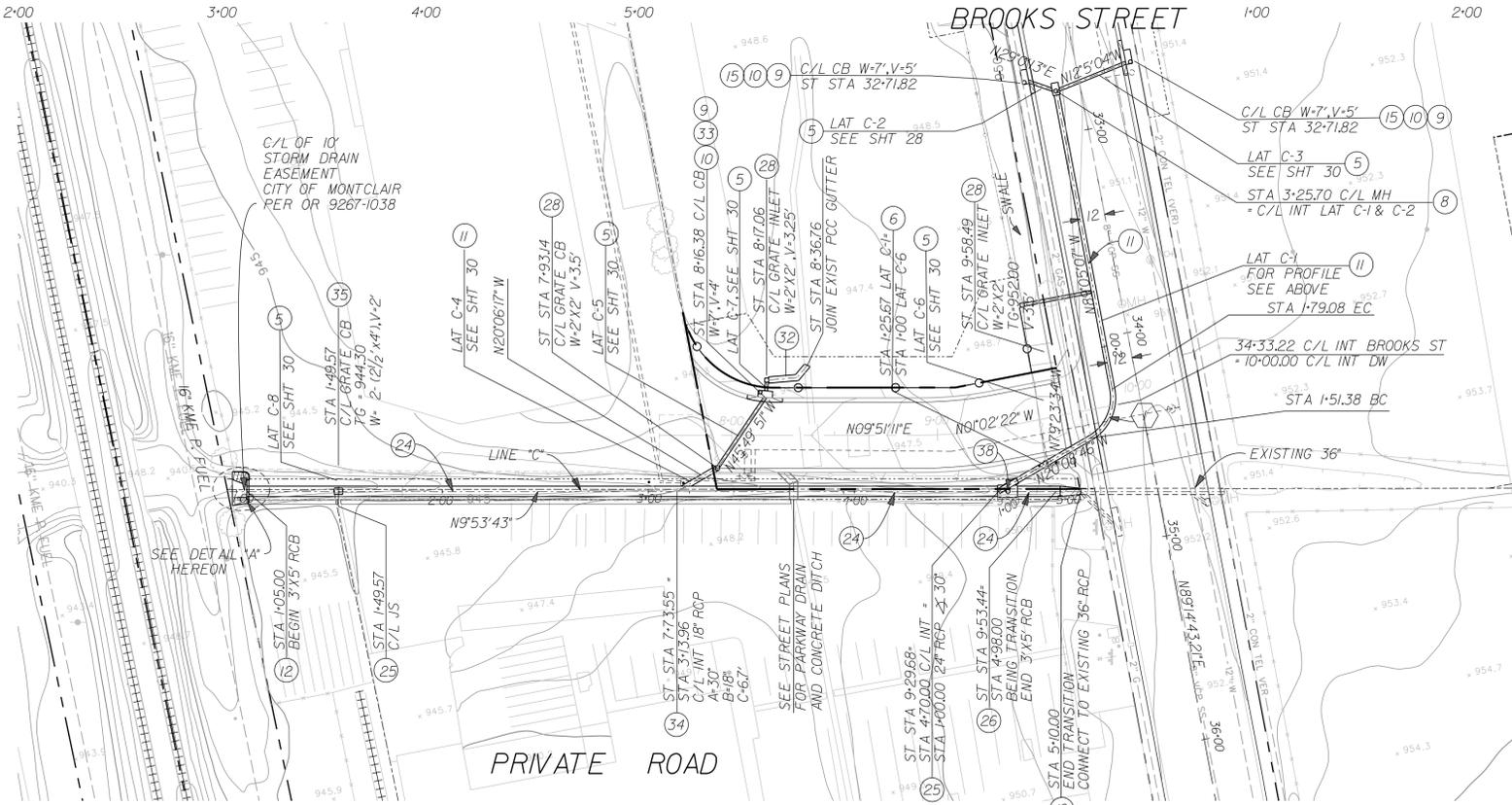
SHEET 26 OF 82 SHEETS



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

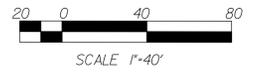
**CONSTRUCTION NOTES**

- 5 CONSTRUCT 18" RCP
- 6 CONSTRUCT JUNCTION STRUCTURE PER APWA STD PLAN 332-1
- 8 CONSTRUCT MANHOLE PER APWA STD PLAN 321-1
- 9 CONSTRUCT 36-INCH MANHOLE FRAME AND COVER PER APWA STD PLAN 633-3
- 10 CONSTRUCT CATCH BASIN PER APWA STD PLAN 300-2
- 11 CONSTRUCT 30" RCP
- 12 CONSTRUCT CONCRETE OUTLET STRUCTURE PER S.B.C.F.C.D. STD PLAN 209
- 15 CONSTRUCT LOCAL DEPRESSION PER APWA STD PLAN 313-0, CASE E
- 19 CONNECT TO EXISTING STORM DRAIN PIPE, REMOVE ANY PIPE CLOSURES
- 24 CONSTRUCT 5' X 3' RCB (1500D)
- 25 CONSTRUCT JUNCTION STRUCTURE PER APWA STD PLAN 333-1
- 26 CONSTRUCT TRANSITION STRUCTURE PER APWA STD PLAN 342-1
- 28 CONSTRUCT 2'X2' BROOKS GRATED INLET W/TRAFFIC GRATE
- 32 CONSTRUCT 3' RIBBON GUTTER PER CITY OF MONTCLAIR STD 106
- 33 CONSTRUCT LOCAL DEPRESSION PER APWA STD PLAN 313-1, CASE B
- 34 CONSTRUCT JUNCTION STRUCTURE PER APWA STD PLAN 333-1
- 35 CONSTRUCT 2.5' x 4' BROOKS GRATED INLET W/TRAFFIC GRATE
- 36 CONSTRUCT 0.25' AC LINING
- 37 CONSTRUCT RCB HEADWALL, WINGWALL TYPE "D" PER CALTRANS STD PLAN D82, D84
- 38 CONSTRUCT MANHOLE PER APWA STD PLAN 323-1

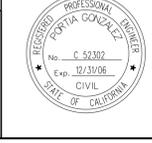


**CURVE DATA**

NO	R	L	T
1	70'38"5"	22.50'	27.74'
2		27.74'	15.94'



100% SUBMITTAL  
NOT FOR CONSTRUCTION  
MARCH 16, 2006



**LAN LIM & NASCIMENTO ENG. CORP.**  
1887 BUSINESS CENTER DR, STE 6  
SAN BERNARDINO, CA 92408

DATE \_\_\_\_\_

LAN ENG JOB NO. COFM0202

MARK	REVISIONS	BY	APPR.	DATE

APPROVED \_\_\_\_\_ 2004

MICHAEL HUDSON, P.E.  
CITY ENGINEER, CITY OF MONTCLAIR  
REGISTERED CIVIL ENGINEER NO. \_\_\_\_\_  
MY LICENSE EXPIRES \_\_\_\_\_

DRAWN BY: ESG

CHECKED BY: PG

RECOMMENDED BY: \_\_\_\_\_

CITY OF MONTCLAIR  
DEVELOPMENT SERVICES DEPARTMENT

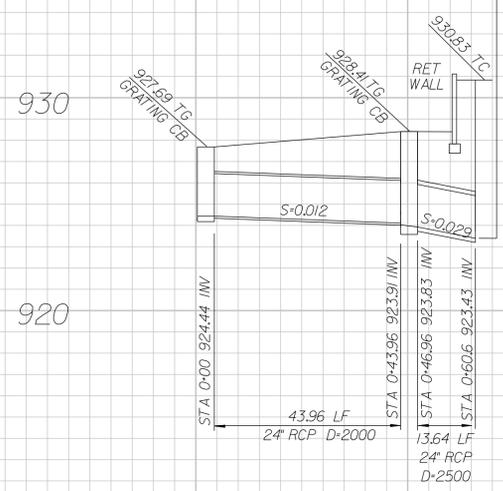
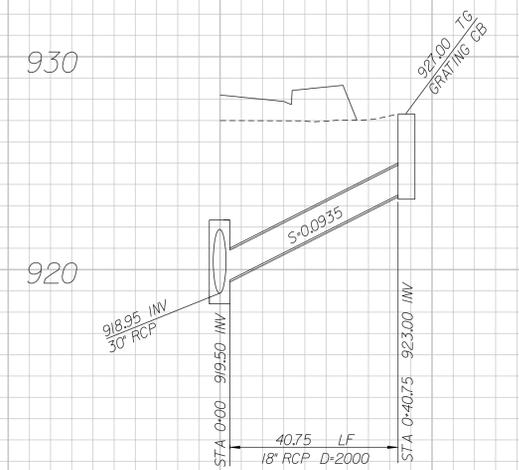
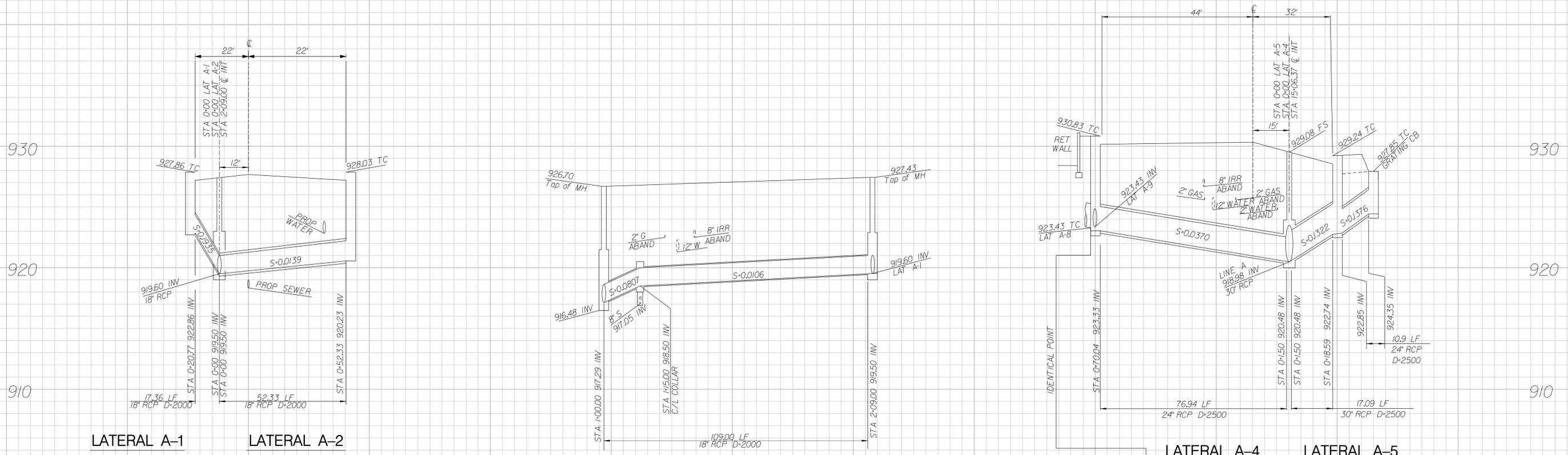
MONTE VISTA AVENUE  
GRADE SEPARATION

STORM DRAIN IMPROVEMENTS  
LINE "C"

CITY FILE NO \_\_\_\_\_

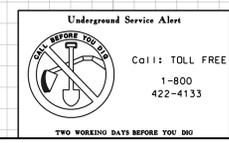
DRAWING NO \_\_\_\_\_

SHEET 27 OF 82 SHEETS



1" = 4' VERT  
1" = 20' HORIZ

100% SUBMITTAL  
NOT FOR CONSTRUCTION  
MARCH 16, 2006



**LAN** LIM & NASCIMENTO ENG. CORP.  
1887 BUSINESS CENTER DR, STE 6  
SAN BERNARDINO, CA 92408

PORTIA GONZALEZ R.C.E. 52302  
MY LICENSE EXPIRES 12-31-06

LAN ENG JOB NO. COFM0202

MARK	REVISIONS	BY	APPR.	DATE

APPROVED: \_\_\_\_\_ 2004

MICHAEL HUDSON, P.E.  
CITY ENGINEER, CITY OF MONTCLAIR  
REGISTERED CIVIL ENGINEER NO. \_\_\_\_\_  
MY LICENSE EXPIRES \_\_\_\_\_

DRAWN BY: FO

CHECKED BY: PG

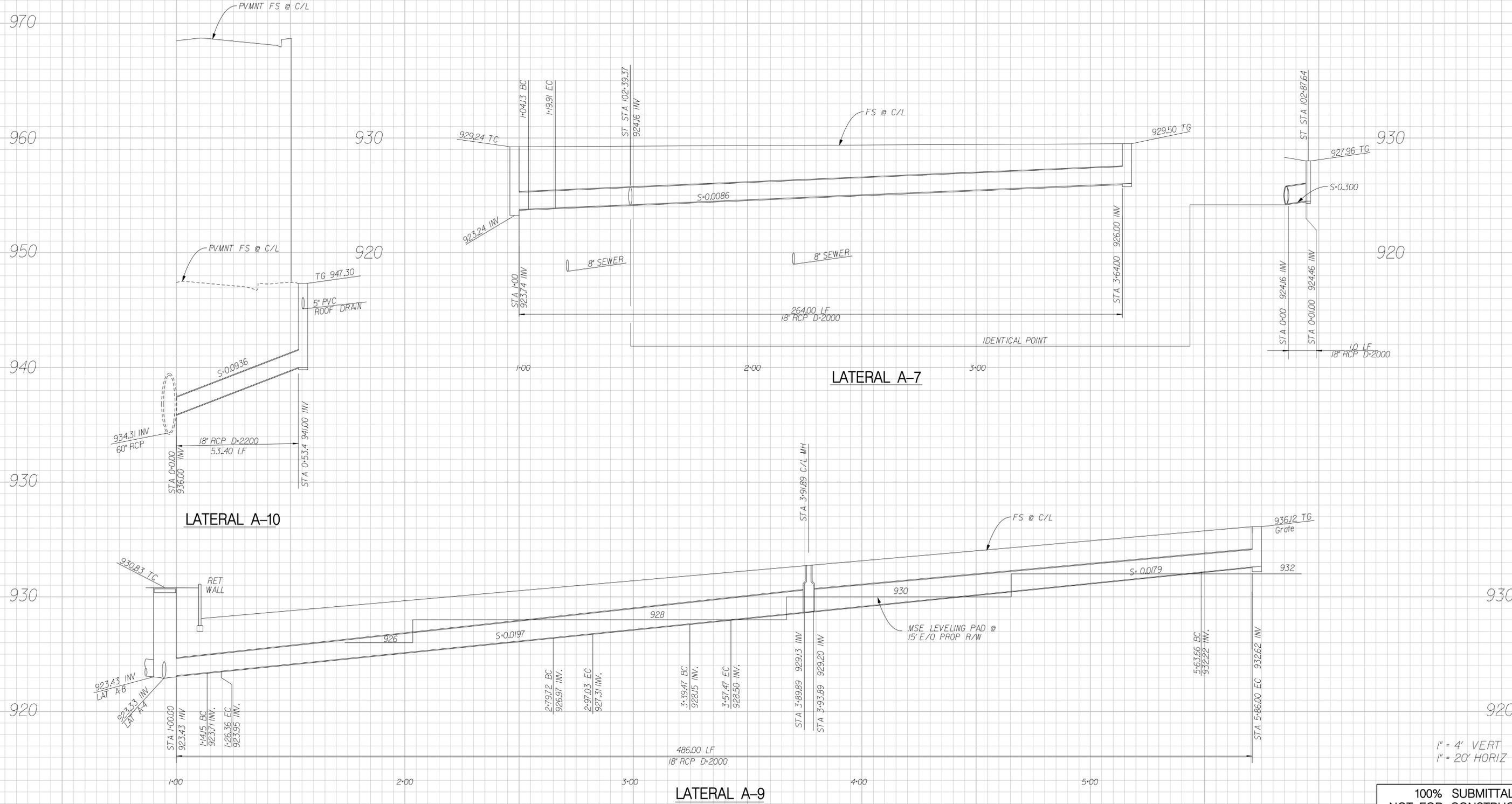
RECOMMENDED BY: \_\_\_\_\_

CITY OF MONTCLAIR  
DEVELOPMENT SERVICES DEPARTMENT

MONTE VISTA AVENUE  
GRADE SEPARATION

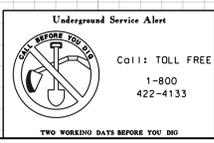
STORM DRAIN IMPROVEMENTS  
LATERAL PROFILES  
A-1 THROUGH A-6 & A-8

CITY FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SHEET 28 OF 82 SHEETS



1" = 4' VERT  
1" = 20' HORIZ

100% SUBMITTAL  
NOT FOR CONSTRUCTION  
MARCH 16, 2006



**LAN** LIM & NASCIMENTO ENG. CORP.  
1887 BUSINESS CENTER DR, STE 6  
SAN BERNARDINO, CA 92408

PORTIA GONZALEZ R.C.E. 52302  
MY LICENSE EXPIRES 12-31-06

LAN ENG JOB NO. COFM0202

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APPROVED: \_\_\_\_\_ 2004

MICHAEL HUDSON, P.E.  
CITY ENGINEER, CITY OF MONTCLAIR  
REGISTERED CIVIL ENGINEER NO. \_\_\_\_\_  
MY LICENSE EXPIRES \_\_\_\_\_

DRAWN BY: FO

CHECKED BY: PG

RECOMMENDED BY: \_\_\_\_\_

CITY OF MONTCLAIR  
DEVELOPMENT SERVICES DEPARTMENT

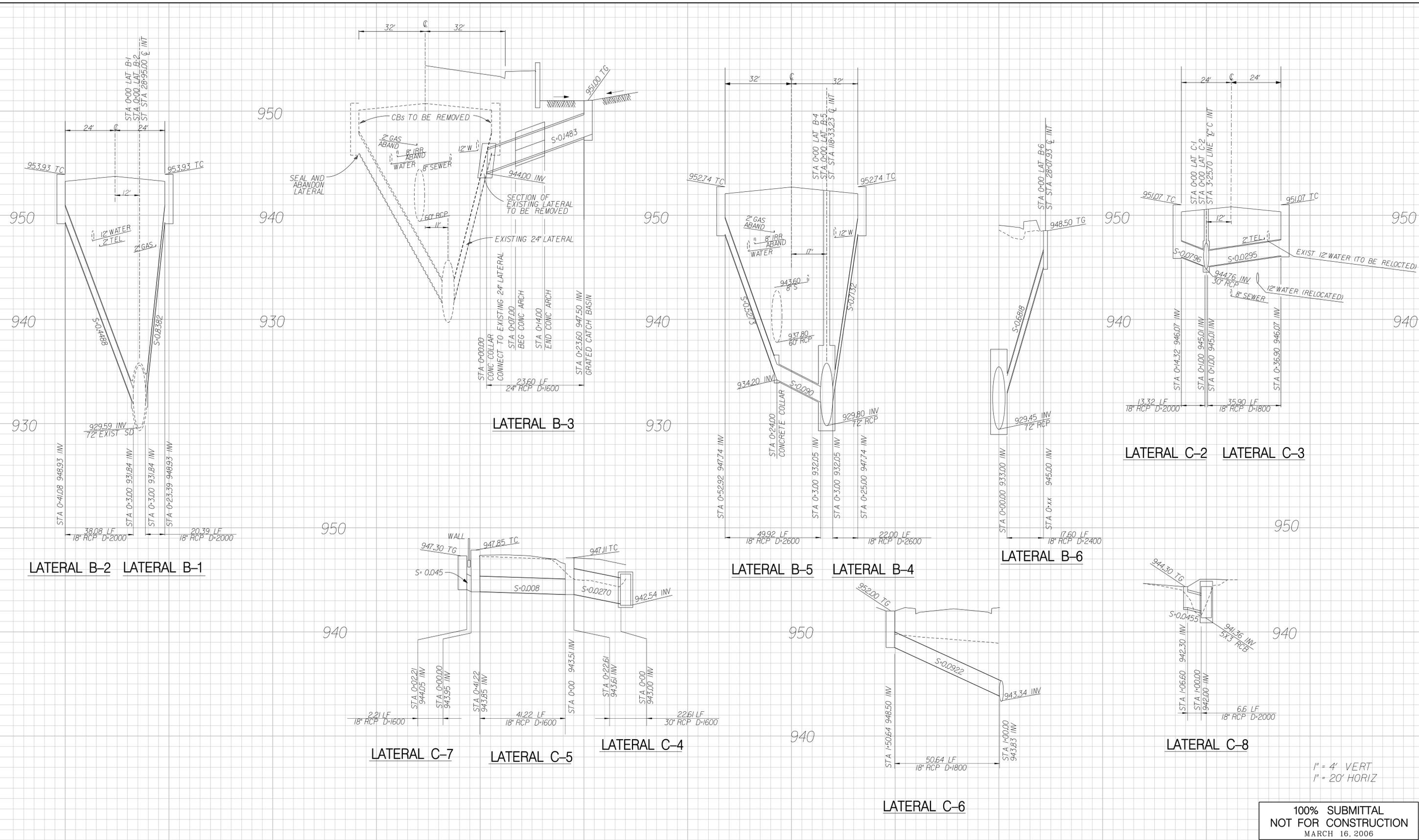
MONTE VISTA AVENUE  
GRADE SEPARATION

STORM DRAIN IMPROVEMENTS  
LATERAL PROFILES  
A-7, A-9 & A-10

CITY FILE NO \_\_\_\_\_

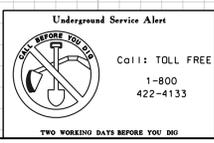
DRAWING NO \_\_\_\_\_

SHEET 29 OF 82 SHEETS



1" = 4' VERT  
1" = 20' HORIZ

100% SUBMITTAL  
NOT FOR CONSTRUCTION  
MARCH 16, 2006



**LAN LIM & NASCIMENTO ENG. CORP.**  
1887 BUSINESS CENTER DR, STE 6  
SAN BERNARDINO, CA 92408

PORTIA GONZALEZ R.C.E. 52302  
MY LICENSE EXPIRES 12-31-06

LAN ENG JOB NO. COFM0202

MARK	REVISIONS	BY	APPR.	DATE

APPROVED: \_\_\_\_\_ 2004  
MICHAEL HUDSON, P.E.  
CITY ENGINEER, CITY OF MONTCLAIR  
REGISTERED CIVIL ENGINEER NO. \_\_\_\_\_  
MY LICENSE EXPIRES \_\_\_\_\_  
DRAWN BY: FO  
CHECKED BY: PG  
RECOMMENDED BY: \_\_\_\_\_

CITY OF MONTCLAIR  
DEVELOPMENT SERVICES DEPARTMENT  
MONTE VISTA AVENUE  
GRADE SEPARATION  
STORM DRAIN IMPROVEMENTS  
LATERAL PROFILES  
B-1 THROUGH B-6, C-1 THROUGH C-8

CITY FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SHEET 30 OF 82 SHEETS



**GENERAL NOTES :**

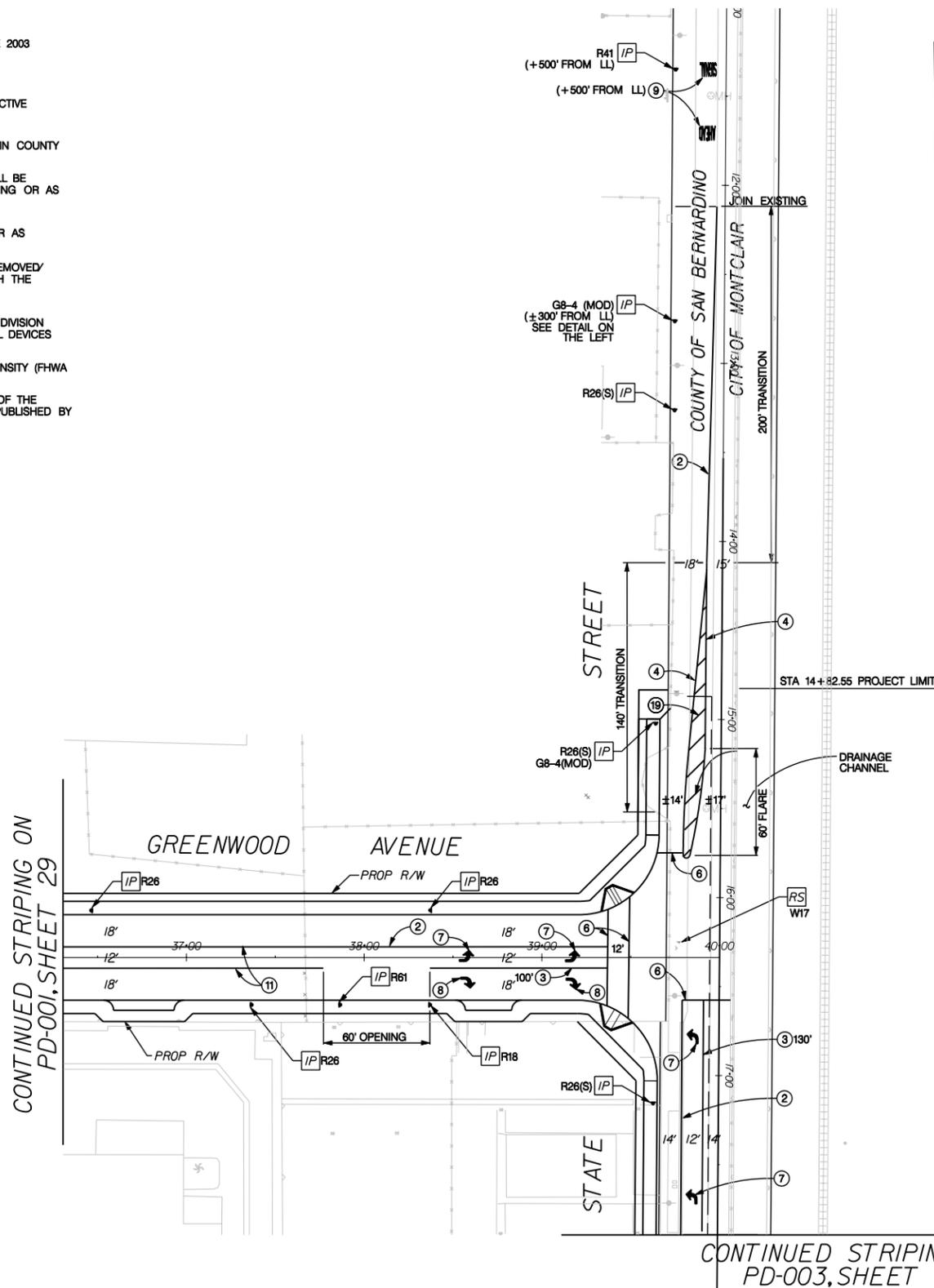
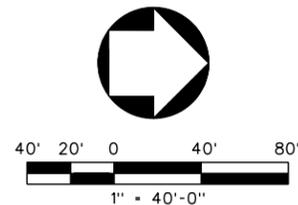
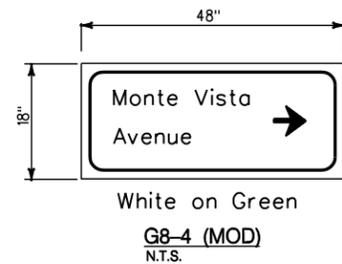
- 1 - ALL SIGNING, STRIPING AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH THE 2003 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CALIFORNIA SUPPLEMENT, AND CALTRANS STANDARD PLANS, DATED JULY 2002.
- 2 - ALL STRIPING AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC (ALKYD BASE TYPE).
- 3 - ALL SIGNS AND ROADSIDE MARKERS SHALL BE OF HIGH INTENSITY (FHWA TYPE III) REFLECTIVE SHEETING, EXCEPT STOP SIGNS SHALL BE DIAMOND GRADE (FHWA TYPE IIIA) REFLECTIVE SHEETING.
- 4 - SIGNS SHALL BE MOUNTED ON METAL POSTS PER COUNTY STANDARD 303(a) AND 303(b) IN COUNTY JURISDICTION AND PER CITY STANDARD DETAIL "139" IN CITY JURISDICTION.
- 5 - ALL CONFLICTING STRIPING AND PAVEMENT MARKINGS NOT SHOWN ON THE PLANS, SHALL BE REMOVED BY CONTRACTOR. REMOVAL SHALL BE ACCOMPLISHED BY SANDBLASTING, GRINDING OR AS DIRECTED BY COUNTY REPRESENTATIVE.
- 6 - ALL CONFLICTING SIGNS SHALL BE EITHER REMOVED, RELOCATED OR COVERED BY THE CONTRACTOR. RELOCATABLE SIGNS SHALL BE INSTALLED AS SPECIFIED ON THE PLANS OR AS DIRECTED BY COUNTY REPRESENTATIVE.
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- 8 - THE CONTRACTOR SHALL NOTIFY COUNTY REPRESENTATIVE TO SCHEDULE WITH TRAFFIC DIVISION PERSONNEL FOR A FINAL REVIEW (WALK THROUGH) AND APPROVAL OF TRAFFIC CONTROL DEVICES PRIOR TO PROJECT ACCEPTANCE.
- 9 - ALL CONSTRUCTION SIGNS SHALL BE BLACK ON ORANGE BACKGROUND WITH HIGH INTENSITY (FHWA TYPE III) REFLECTIVE SHEETING.
- 10 - ALL CONSTRUCTION SIGNING SHALL BE IN CONFORMANCE WITH THE CURRENT EDITION OF THE MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE WORK ZONES, PUBLISHED BY THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION.

**LEGEND:**

- RS REMOVE AND SALVAGE EQUIPMENT.
- IP INSTALL NEW SIGN(S) AND POST AS SHOWN ON PLAN.

**CONSTRUCTION NOTES**

- ① NOT USED.
- ② INSTALL DETAIL 21 - DOUBLE YELLOW CENTER STRIPING PER CALTRANS STD. PLAN A20A.
- ③ INSTALL DETAIL 38 - 8" WHITE CHANNELIZING LINE PER CALTRANS STD. PLAN A20D.
- ④ INSTALL DETAIL 28 - DOUBLE LEFT EDGELINE PER CALTRANS STD. PLAN A20B.
- ⑤ NOT USED.
- ⑥ INSTALL 12" SOLID WHITE PER CALTRANS STD. PLAN A24E.
- ⑦ INSTALL TYPE IV (L) ARROW MARKING PER CALTRANS STD. PLAN A24A.
- ⑧ INSTALL TYPE IV (R) ARROW MARKING PER CALTRANS STD. PLAN A24A.
- ⑨ INSTALL PAVEMENT MARKING AS NOTED PER CALTRANS STD. PLAN.
- ⑩ NOT USED.
- ⑪ INSTALL DETAIL 31 - TWO-WAY LEFT TURN LANES PER CALTRANS STD. PLAN A20B.
- ⑫ INSTALL RED CURB (DISTANCE AS SHOWN ON PLAN).
- ⑬ INSTALL NON-REFLECTIVE WHITE MARKER DIAGONALLY AT ±20' IN SPACING.



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MARCH 16, 2006

		<p><b>LIN Consulting, Inc.</b> Traffic, Civil, and Electrical Consulting Engineers 21660 E. COPLEY DRIVE, SUITE 270 DIAMOND BAR, CA 91765 PHONE: (909) 396-6850, FAX: (909) 396-8150 E-MAIL: INFO@LINCONSULTING.COM</p>	<p style="text-align: center;">COUNTY OF SAN BERNARDINO DEPARTMENT OF PUBLIC WORKS</p>	<p style="text-align: right;">APPROVED _____ 2006</p> <p style="font-size: small;">MICHAEL HUDSON, P.E. CITY ENGINEER, CITY OF MONTCLAIR REGISTERED CIVIL ENGINEER NO. _____ MT LICENSE EXPIRES _____</p>	<p style="text-align: center;">CITY OF MONTCLAIR DEVELOPMENT SERVICES DEPARTMENT MONTE VISTA AVENUE GRADE SEPARATION SIGNING AND STRIPING PLAN STATE STREET AT GREENWOOD AVENUE</p>	<p style="font-size: x-small;">CITY FILE NO _____ DRAWING NO PD-002 SHEET <u>32</u> OF 82 SHEETS</p>
		<p>03/16/06 DATE</p> <p>LCI JOB NO. P9120</p>	<p>DRAWN BY _____ DESIGNED BY _____ PROJ. ENGR. _____ RECOMMENDED /APPROVED BY _____</p> <p>SUBMITTED BY _____ ASSISTANT DIRECTOR _____ DATE _____</p> <p>CHIEF TRAFFIC DIVISION _____ DATE _____ DIRECTOR OF PUBLIC WORKS _____ DATE _____</p>	<p>DRAWN BY: R. WOO</p> <p>CHECKED BY: D. LIN</p> <p>RECOMMENDED BY: D. LIN</p>		

**GENERAL NOTES :**

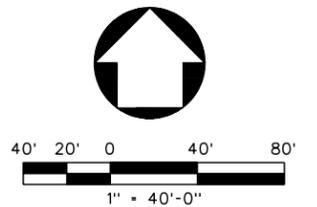
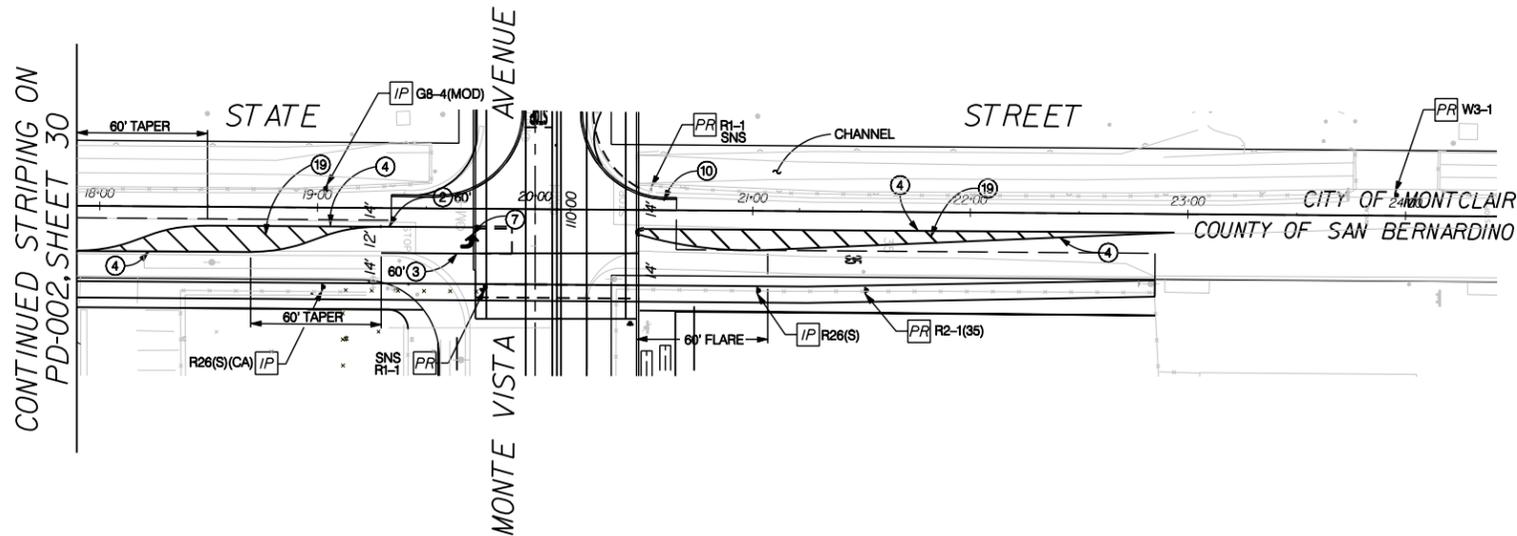
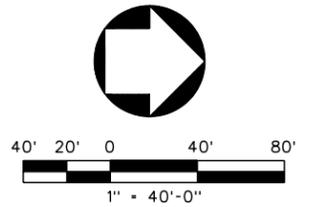
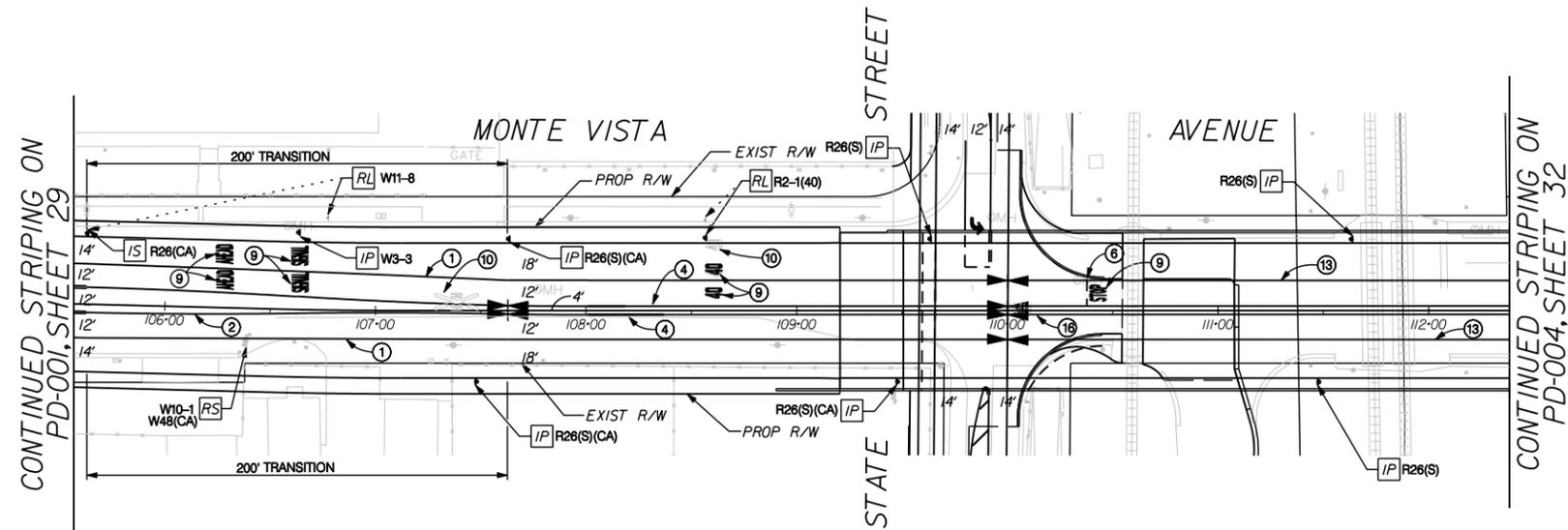
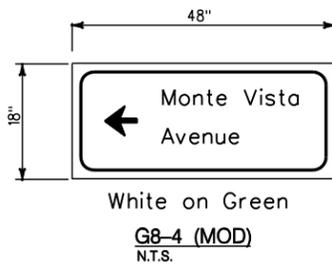
- 1- ALL SIGNING, STRIPING AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH THE 2003 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CALIFORNIA SUPPLEMENT, AND CALTRANS STANDARD PLANS, DATED JULY 2002.
- 2- ALL STRIPING AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC (ALKYD BASE TYPE).
- 3- ALL SIGNS AND ROADSIDE MARKERS SHALL BE OF HIGH INTENSITY (FHWA TYPE III) REFLECTIVE SHEETING, EXCEPT STOP SIGNS SHALL BE DIAMOND GRADE (FHWA TYPE IIIA) REFLECTIVE SHEETING.
- 4- SIGNS SHALL BE MOUNTED ON METAL POSTS PER COUNTY STANDARD 303(a) AND 303(b) IN COUNTY JURISDICTION AND PER CITY STANDARD DETAIL "139" IN CITY JURISDICTION.
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**CONSTRUCTION NOTES**

- ① INSTALL DETAIL 8 - LANE LINES PER CALTRANS STD. PLAN A20A.
- ② INSTALL DETAIL 21 - DOUBLE YELLOW CENTER STRIPING PER CALTRANS STD. PLAN A20A.
- ③ INSTALL DETAIL 38 - 8" WHITE CHANNELIZING LINE PER CALTRANS STD. PLAN A20D.
- ④ INSTALL DETAIL 28 - DOUBLE LEFT EDGELINE PER CALTRANS STD. PLAN A20B.
- ⑤ INSTALL 4" SOLID WHITE LINE PER CALTRANS STD. PLAN A20A.
- ⑥ INSTALL 12" SOLID WHITE PER CALTRANS STD. PLAN A24E.
- ⑦ INSTALL TYPE IV (L) ARROW MARKING PER CALTRANS STD. PLAN A24A.
- ⑧ NOT USED.
- ⑨ INSTALL PAVEMENT MARKING AS NOTED PER CALTRANS STD. PLAN.
- ⑩ REMOVE EXISTING CONFLICTING STRIPING AND/OR PAVEMENT MARKINGS.
- ⑪ NOT USED.
- ⑫ NOT USED.
- ⑬ INSTALL DETAIL 10 - LANE LINES PER CALTRANS STD. PLAN A20A.
- ⑭ NOT USED.
- ⑮ NOT USED.
- ⑯ INSTALL DETAIL 30 - MEDIAN ISLAND PER CALTRANS STD. PLAN A20B.
- ⑰ INSTALL NON-REFLECTIVE WHITE MARKER DIAGONALLY AT ±20' IN SPACING.

**LEGEND:**

- REMOVE AND SALVAGE EQUIPMENT.
- RELOCATE EQUIPMENT.
- INSTALL NEW SIGN(S) AND POST AS SHOWN ON PLAN.
- INSTALL NEW SIGN ONLY.
- PROTECT IN PLACE.
- STRIPING TRANSITION



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MARCH 16, 2006

<p>CO111 TOLL FREE 1-800-422-4133</p>		<p><b>LIN Consulting, Inc.</b> Traffic, Civil, and Electrical Consulting Engineers 21660 E. COPLEY DRIVE, SUITE 270 DIAMOND BAR, CA 91765 PHONE: (909) 396-6850, FAX: (909) 396-8150 E-MAIL: INFO@LINCONSULTING.COM</p> <p>DATE: 03/16/06 LCI JOB NO. P9120</p>	<p>COUNTY OF SAN BERNARDINO DEPARTMENT OF PUBLIC WORKS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DRAWN BY</td> <td>DESIGNED BY</td> <td>PROJ. ENGR.</td> <td>RECOMMENDED /APPROVED BY</td> </tr> <tr> <td>SUBMITTED BY</td> <td colspan="2">ASSISTANT DIRECTOR</td> <td>DATE</td> </tr> <tr> <td>CHIEF TRAFFIC DIVISION</td> <td>DATE</td> <td>DIRECTOR OF PUBLIC WORKS</td> <td>DATE</td> </tr> </table>	DRAWN BY	DESIGNED BY	PROJ. ENGR.	RECOMMENDED /APPROVED BY	SUBMITTED BY	ASSISTANT DIRECTOR		DATE	CHIEF TRAFFIC DIVISION	DATE	DIRECTOR OF PUBLIC WORKS	DATE	<p>APPROVED _____ 2006</p> <p>MICHAEL HUDSON, P.E. CITY ENGINEER, CITY OF MONTCLAIR REGISTERED CIVIL ENGINEER NO. _____ MY LICENSE EXPIRES _____</p> <p>DRAWN BY: R. WOO</p> <p>CHECKED BY: D. LIN</p> <p>RECOMMENDED BY: D. LIN</p>	<p>CITY OF MONTCLAIR DEVELOPMENT SERVICES DEPARTMENT</p> <p><b>MONT VISTA AVENUE GRADE SEPARATION</b></p> <p>SIGNING AND STRIPING PLAN MONT VISTA AVENUE AT STATE STREET</p>	<p>CITY FILE NO</p> <p>DRAWING NO PD-003</p> <p>SHEET <u>33</u> OF <u>82</u> SHEETS</p>
DRAWN BY	DESIGNED BY	PROJ. ENGR.	RECOMMENDED /APPROVED BY															
SUBMITTED BY	ASSISTANT DIRECTOR		DATE															
CHIEF TRAFFIC DIVISION	DATE	DIRECTOR OF PUBLIC WORKS	DATE															

**GENERAL NOTES :**

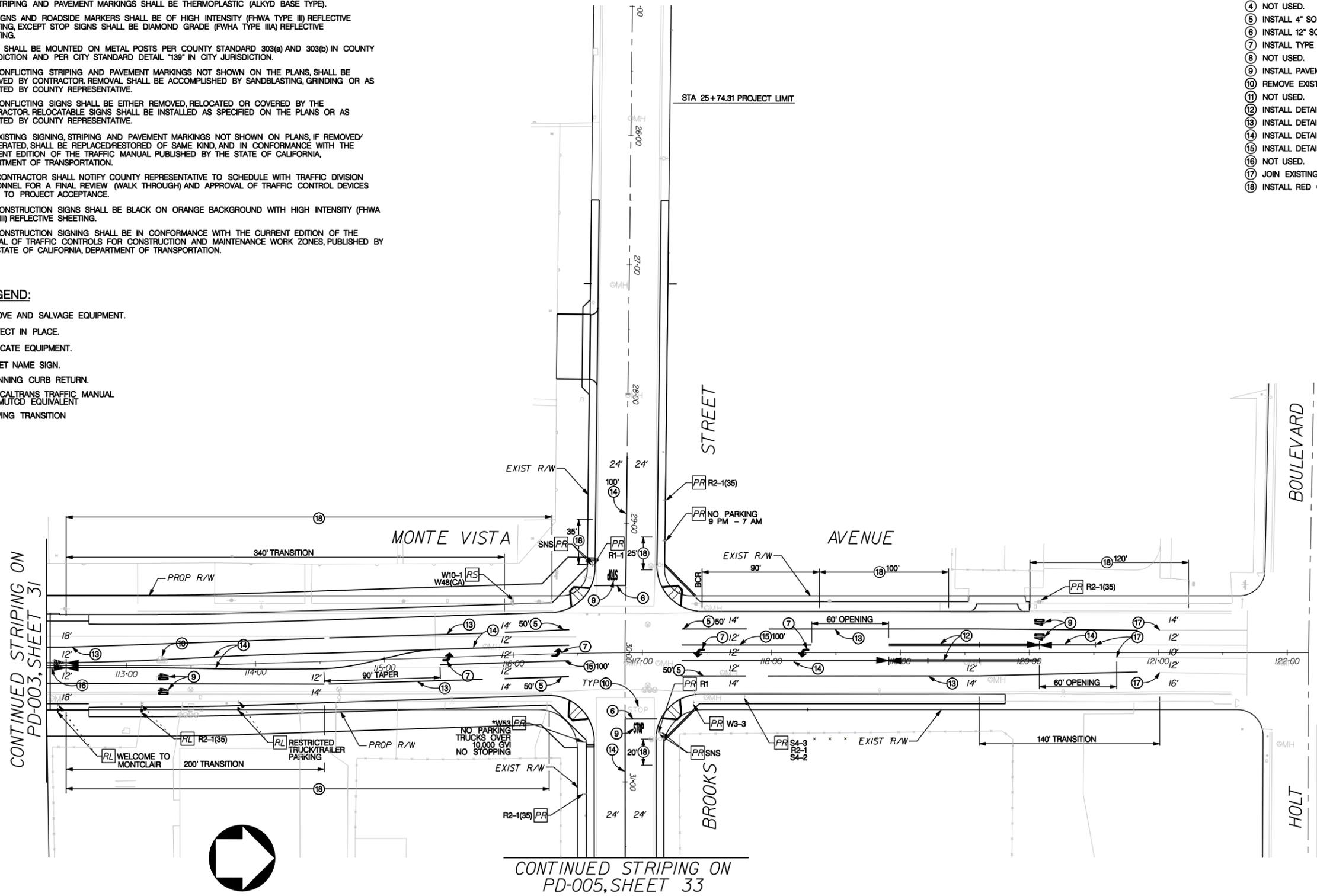
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**LEGEND:**

- RS REMOVE AND SALVAGE EQUIPMENT.
- PR PROTECT IN PLACE.
- RL RELOCATE EQUIPMENT.
- SNS STREET NAME SIGN.
- BCR BEGINNING CURB RETURN.
- \* PER CALTRANS TRAFFIC MANUAL NO MUTCD EQUIVALENT
- STRIPING TRANSITION

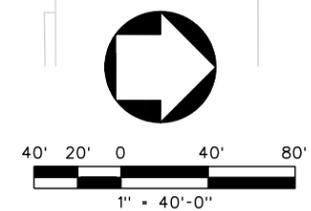
**CONSTRUCTION NOTES**

- 1 NOT USED.
- 2 NOT USED.
- 3 NOT USED.
- 4 NOT USED.
- 5 INSTALL 4" SOLID WHITE LINE PER CALTRANS STD. PLAN A20A.
- 6 INSTALL 12" SOLID WHITE PER CALTRANS STD. PLAN A24E.
- 7 INSTALL TYPE IV (L) ARROW MARKING PER CALTRANS STD. PLAN A24A.
- 8 NOT USED.
- 9 INSTALL PAVEMENT MARKING AS NOTED PER CALTRANS STD. PLAN A24B - A24E.
- 10 REMOVE EXISTING CONFLICTING STRIPING AND/OR PAVEMENT MARKINGS.
- 11 NOT USED.
- 12 INSTALL DETAIL 33 - TWO-WAY LEFT TURN LANES PER CALTRANS STD. PLAN A20B.
- 13 INSTALL DETAIL 10 - LANE LINES PER CALTRANS STD. PLAN A20A.
- 14 INSTALL DETAIL 23 - DOUBLE YELLOW CENTER STRIPING PER CALTRANS STD. PLAN A20A.
- 15 INSTALL DETAIL 38B - 8" WHITE CHANNELIZING LINE PER CALTRANS STD. PLAN A20D.
- 16 NOT USED.
- 17 JOIN EXISTING STRIPING.
- 18 INSTALL RED CURB (DISTANCE AS SHOWN ON PLAN).



CONTINUED STRIPING ON PD-003, SHEET 31

CONTINUED STRIPING ON PD-005, SHEET 33



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MARCH 16, 2006

 Call: TOLL FREE 1-800-422-4133	 <b>LIN Consulting, Inc.</b> Traffic, Civil, and Electrical Consulting Engineers 21660 E. COPLEY DRIVE, SUITE 270 DIAMOND BAR, CA 91765 PHONE: (909) 396-6850, FAX: (909) 396-8150 E-MAIL: INFO@LINCONSULTING.COM	COUNTY OF SAN BERNARDINO DEPARTMENT OF PUBLIC WORKS		APPROVED _____ 2006 MICHAEL HUDSON, P.E. CITY ENGINEER, CITY OF MONTCLAIR REGISTERED CIVIL ENGINEER NO. _____ MY LICENSE EXPIRES _____	CITY OF MONTCLAIR DEVELOPMENT SERVICES DEPARTMENT MONTE VISTA AVENUE GRADE SEPARATION	CITY FILE NO _____ DRAWING NO PD-004
		DRAWN BY _____ DESIGNED BY _____ PROJ. ENGR. _____ RECOMMENDED /APPROVED BY _____ SUBMITTED BY _____ ASSISTANT DIRECTOR _____ DATE _____ CHIEF TRAFFIC DIVISION _____ DATE _____ DIRECTOR OF PUBLIC WORKS _____ DATE _____		CHECKED BY: D. LIN RECOMMENDED BY: D. LIN	SIGNING AND STRIPING PLAN MONTE VISTA AVENUE AT BROOKS STREET	SHEET <u>34</u> OF <u>82</u> SHEETS

**GENERAL NOTES :**

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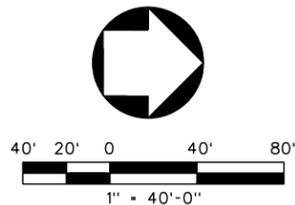
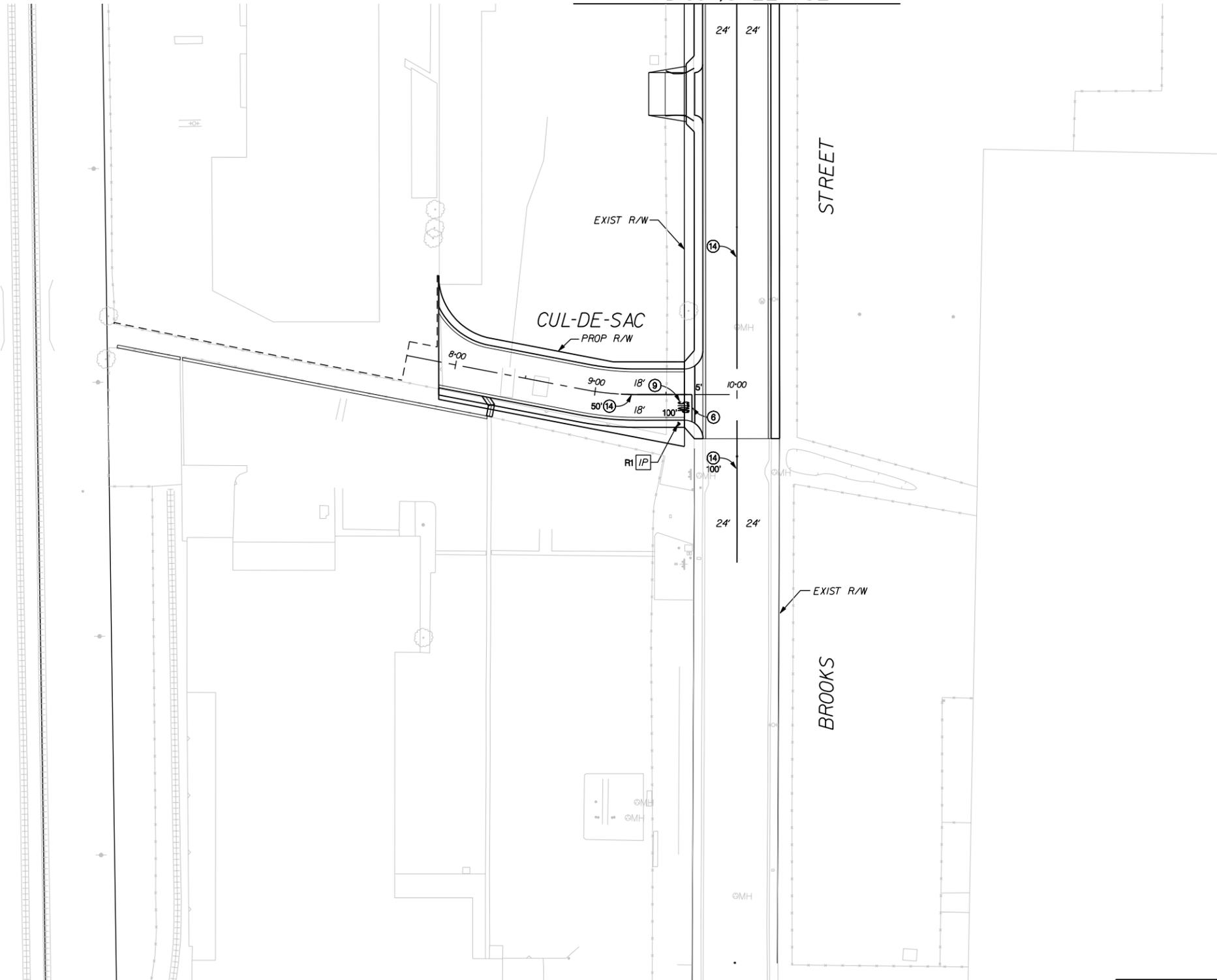
**LEGEND:**

 INSTALL NEW SIGN(S) AND POST AS SHOWN ON PLAN.

**CONSTRUCTION NOTES**

- ① NOT USED.
- ② NOT USED.
- ③ NOT USED.
- ④ NOT USED.
- ⑤ NOT USED.
- ⑥ INSTALL 12" SOLID WHITE PER CALTRANS STD. PLAN A24E
- ⑦ NOT USED.
- ⑧ NOT USED.
- ⑨ INSTALL PAVEMENT MARKING AS NOTED PER CALTRANS STD. PLAN .
- ⑩ NOT USED.
- ⑪ NOT USED.
- ⑫ NOT USED.
- ⑬ NOT USED.
- ⑭ INSTALL DETAIL 23-DOUBLE YELLOW CENTER STRIPING PER CALTRANS STD. PLAN A20A.
- ⑮ NOT USED.
- ⑯ NOT USED.

CONTINUED STRIPING ON  
PD-004, SHEET 32



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MARCH 16, 2006

 <p>CO 111 TOLL FREE 1-800 422-4133</p>	 <p>DENWUN LIN NO. 46719 EXP. 06/30/07 CIVIL STATE OF CALIFORNIA</p>	<p><b>LIN Consulting, Inc.</b> Traffic, Civil, and Electrical Consulting Engineers 21660 E. COPLEY DRIVE, SUITE 270 DIAMOND BAR, CA 91765 PHONE: (909) 396-6850, FAX: (909) 396-8150 E-MAIL: INFO@LINCONSULTING.COM</p> <p>DATE: 03/16/06 LCI JOB NO. P9120</p>	<p>COUNTY OF SAN BERNARDINO DEPARTMENT OF PUBLIC WORKS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">DRAWN BY</td> <td style="width: 25%;">DESIGNED BY</td> <td style="width: 25%;">PROJ. ENGR.</td> <td style="width: 25%;">RECOMMENDED / APPROVED BY</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td colspan="2">SUBMITTED BY</td> <td>ASSISTANT DIRECTOR</td> <td>DATE</td> </tr> <tr> <td colspan="2"> </td> <td> </td> <td> </td> </tr> <tr> <td>CHIEF TRAFFIC DIVISION</td> <td>DATE</td> <td>DIRECTOR OF PUBLIC WORKS</td> <td>DATE</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	DRAWN BY	DESIGNED BY	PROJ. ENGR.	RECOMMENDED / APPROVED BY					SUBMITTED BY		ASSISTANT DIRECTOR	DATE					CHIEF TRAFFIC DIVISION	DATE	DIRECTOR OF PUBLIC WORKS	DATE					<p>APPROVED _____ 2006</p> <p>MICHAEL HUDSON, P.E. CITY ENGINEER, CITY OF MONTCLAIR REGISTERED CIVIL ENGINEER NO. _____ MY LICENSE EXPIRES _____</p> <p>DRAWN BY: R. WOO</p> <p>CHECKED BY: D. LIN</p> <p>RECOMMENDED BY: D. LIN</p>	<p>CITY OF MONTCLAIR DEVELOPMENT SERVICES DEPARTMENT</p> <p>MONTE VISTA AVENUE GRADE SEPARATION</p> <p>SIGNING AND STRIPING PLAN BROOKS STREET AT CUL-DE-SAC</p>	<p>CITY FILE NO</p> <p>DRAWING NO PD-005</p> <p>SHEET 35 OF 82 SHEETS</p>
DRAWN BY	DESIGNED BY	PROJ. ENGR.	RECOMMENDED / APPROVED BY																											
SUBMITTED BY		ASSISTANT DIRECTOR	DATE																											
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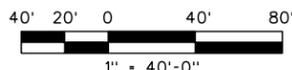
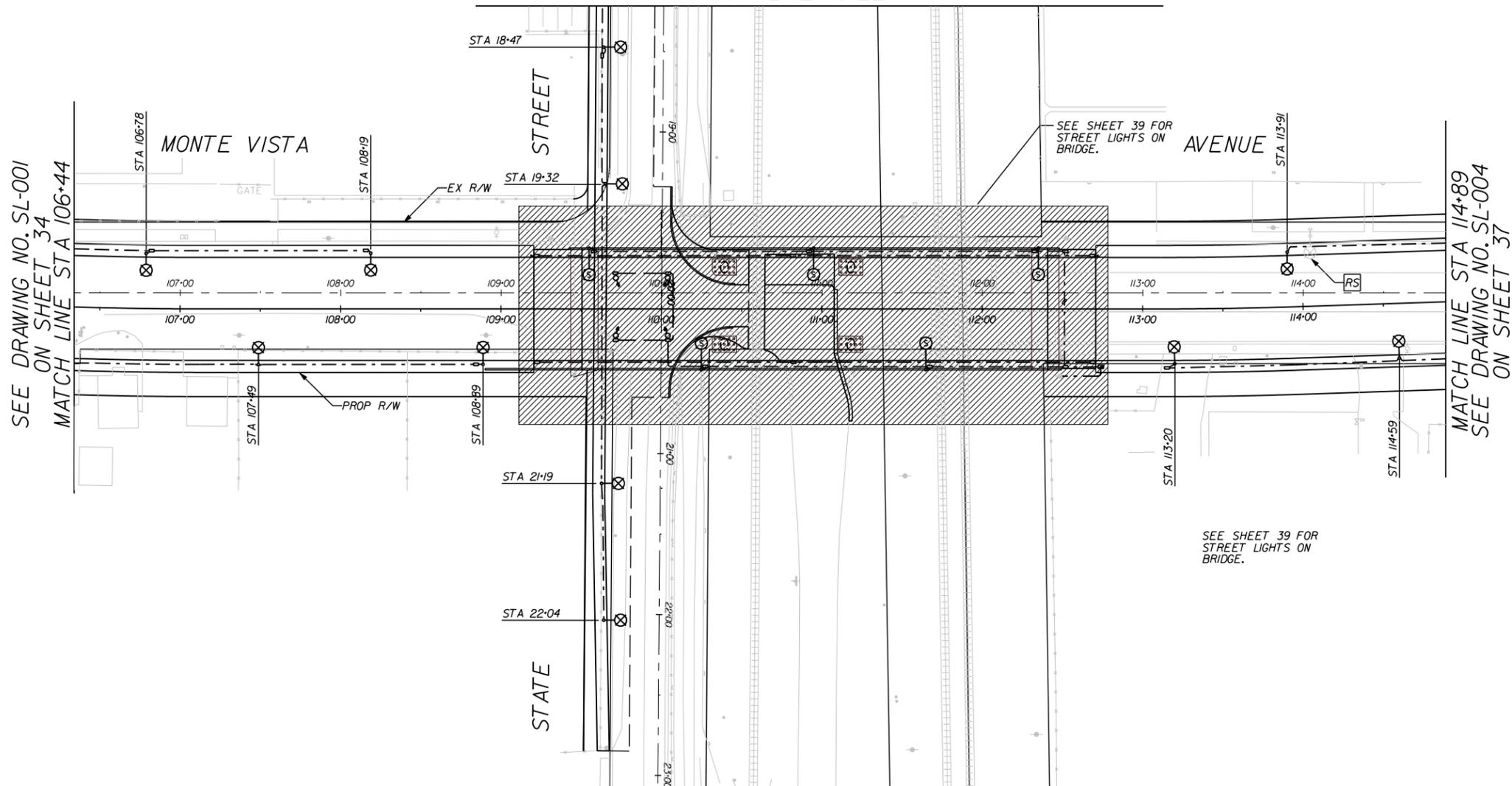
**GENERAL NOTES:**

- STREET LIGHTING: STREET LIGHT INSTALLATIONS ON FACILITIES OWNED BY SOUTHERN CALIFORNIA EDISON (SCE), AS DESCRIBED ON REFERENCE DRAWINGS, INCLUDING LUMINAIRES AND WIRING TO MAKE AN OPERABLE LIGHTING SYSTEM, SHALL BE PERFORMED BY SCE AT NO COST TO THE CONTRACTOR.  
  
NEW STREET LIGHT STANDARDS, FOUNDATIONS, LUMINAIRES, CONDUIT, PULL BOXES AND WIRING SHALL BE SUPPLIED AND CONSTRUCTED BY THE CONTRACTOR UP TO THE POINT OF CONNECTION WITH SOUTHERN CALIFORNIA EDISON. CONTRACTOR SHALL COORDINATE SELECTION OF LUMINAIRES TO BE CONSISTENT WITH THOSE PROVIDED BY SCE.
- REFER TO SOUTHERN CALIFORNIA EDISON WORK ORDER DRAWING FOR CONDUIT RUNS AND SIZE WIRING AND CONDUCTORS INFORMATION.
- CROSSING ILLUMINATION CONFORMS TO THE REQUIREMENTS OF ANSI "PRACTICE FOR ROADWAY LIGHTING RP8," IES.
- STREET LIGHT PULL BOXES SHALL NOT BE INSTALLED WITHIN DRIVEWAY APPROACHES OR SIDEWALK AREAS DESIGNATED AS WHEELCHAIR RAMPS.

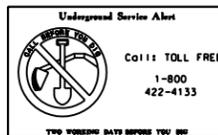
**LEGEND:**

- INDICATES EXISTING STREET LIGHT.
- INDICATES INSTALL AMERON 1C1-28F6 LIGHTING STANDARD WITH 6' MAST ARM OR APPROVED EQUIVALENT, WITH FOUNDATION PER APWA STD. PLAN 445-(C-1-B). INSTALL 150W HPS LUMINAIRE AND LAMP. LUMINAIRE SHALL PROVIDE MEDIUM, CUTOFF, TYPE III ANSI LIGHTING DISTRIBUTION.
- REMOVE AND SALVAGE EQUIPMENT.

SEE DRAWING NO. SL-002  
ON SHEET 35  
MATCH LINE 18+22



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MARCH 16, 2006



**LIN Consulting, Inc.**  
Traffic, Civil, and Electrical Consulting Engineers  
21660 E. COPLEY DRIVE, SUITE 270  
DIAMOND BAR, CA 91765  
PHONE: (909) 396-6850, FAX: (909) 396-8150  
E-MAIL: INFO@LINCONSULTING.COM

DENWUN LIN R.C.E. 46719  
MY LICENSE EXPIRES 06-30-07

03/16/06  
DATE

LCI JOB NO. P9120

COUNTY OF SAN BERNARDINO  
DEPARTMENT OF PUBLIC WORKS

DRAWN BY	DESIGNED BY	PROJ. ENGR.	RECOMMENDED / APPROVED BY
SUBMITTED BY		ASSISTANT DIRECTOR	DATE
CHIEF TRAFFIC DIVISION		DIRECTOR OF PUBLIC WORKS	DATE

MARK	REVISIONS	BY	APPR.	DATE

APPROVED \_\_\_\_\_ 2006

MICHAEL HUDSON, P.E.  
CITY ENGINEER, CITY OF MONTCLAIR  
REGISTERED CIVIL ENGINEER NO. \_\_\_\_\_  
MY LICENSE EXPIRES \_\_\_\_\_

DRAWN BY: R. WOO

CHECKED BY: D. LIN

RECOMMENDED BY: D. LIN

CITY OF MONTCLAIR  
DEVELOPMENT SERVICES DEPARTMENT

MONTE VISTA AVENUE  
GRADE SEPARATION

STREET LIGHTING PLAN  
MONTE VISTA AVENUE AT  
STATE STREET

CITY FILE NO. \_\_\_\_\_

DRAWING NO. SL-003

SHEET 38 OF 82 SHEETS



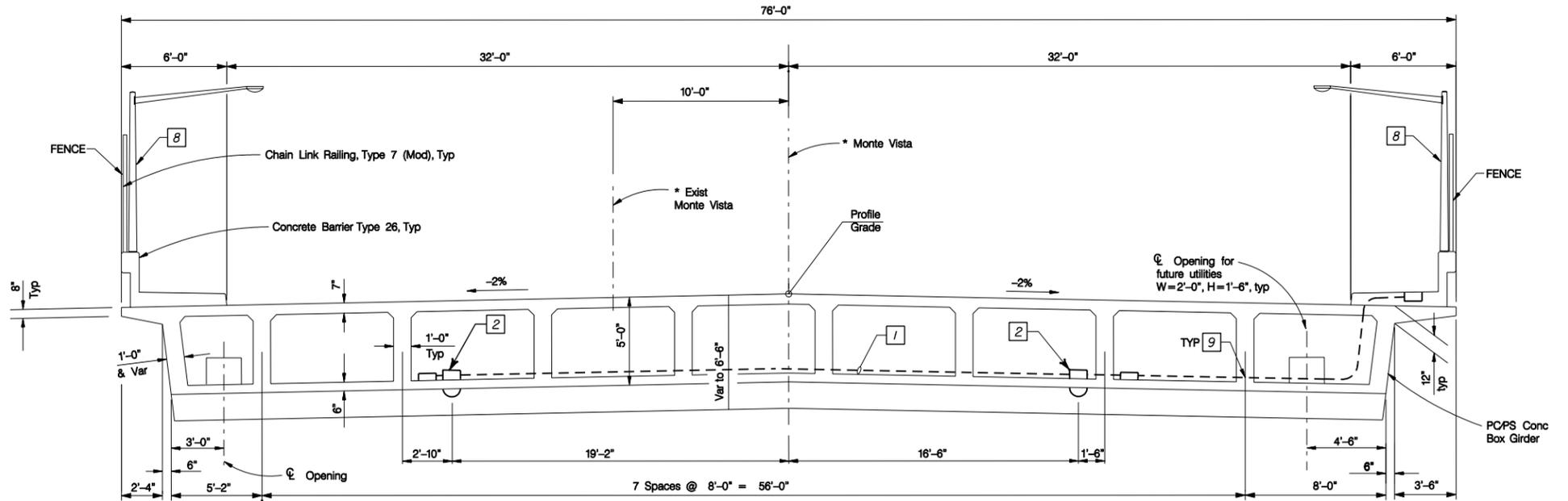


**LEGEND:**

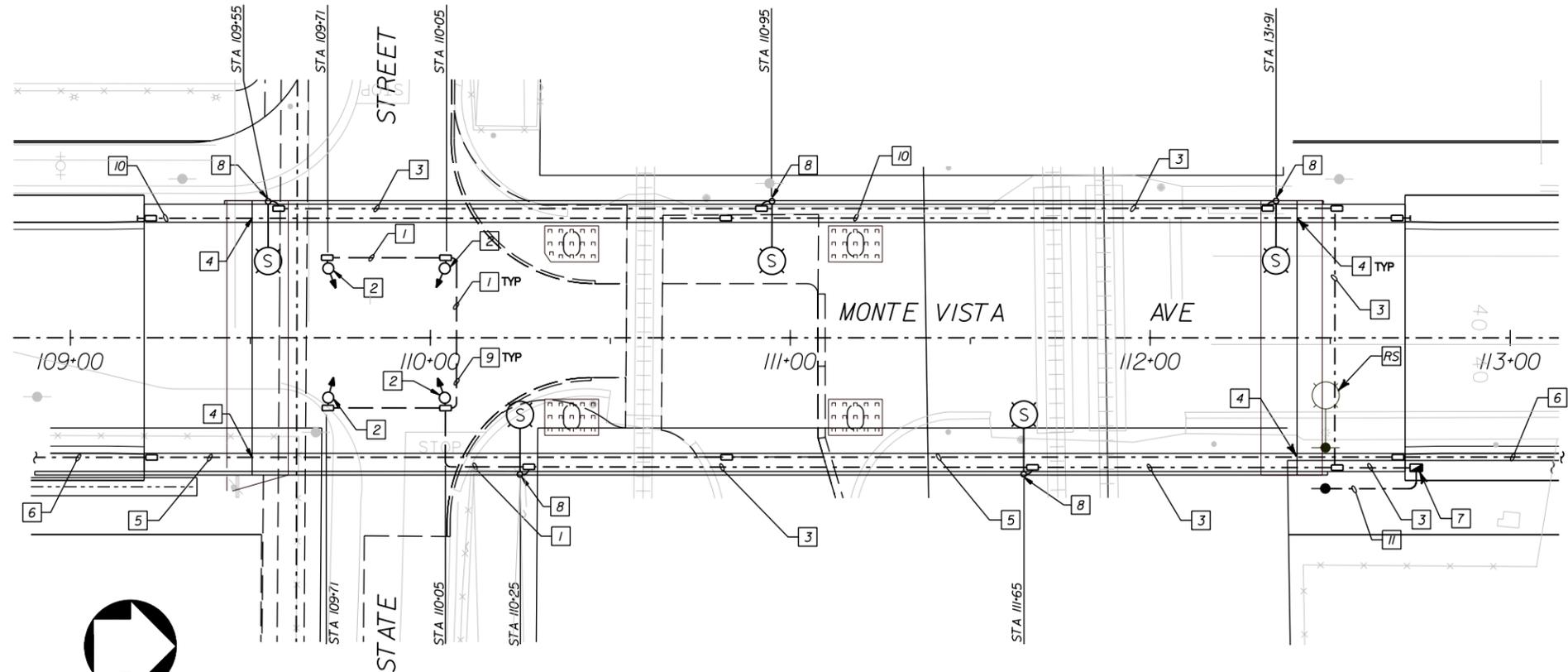
- → INDICATES EXISTING STREET LIGHT ON POWER POLE.
- ○ INDICATES EXISTING STREET LIGHT.
- ⊗ → 150W HPS AMERON A258, BARRIER MOUNTED PER CALTRANS STANDARD PLANS B11-54 (2.4m OR 8' LUMINAIRE ARM).
- ⊕ 70W HPS SOFFIT LIGHT
- ▣ PROPOSED SERVICE PEDESTAL
- RS REMOVE AND SALVAGE EQUIPMENT.

**CONSTRUCTION NOTES:**

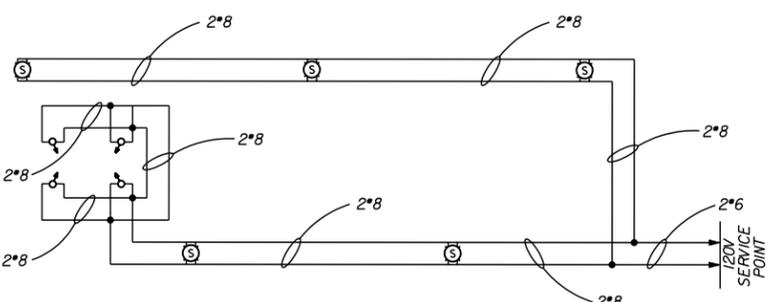
- 1 INSTALL 1" C, 2#8.
- 2 INSTALL 70W HPS SOFFIT LIGHT WITH NO.7 PULL BOX PER CALTRANS STD. PLAN ES-9E. LOCATE SOFFIT LIGHT PER PLAN & SECTION.
- 3 INSTALL 2" C, 2#8, AND NO.5 PULL BOX AS SHOWN ON PLAN FOR TYPE 15 STREET LIGHT (SEE CALTRANS STD. PLAN ES-9D)
- 4 EXPANSION /DEFLECTION FITTING IS REQUIRED AT ALL JOINTS (SEE CALTRANS STD. PLAN ES-9B DETAIL X)
- 5 INSTALL 2" CONDUIT, PULL ROPE AND PULL BOXES FOR FUTURE IRRIGATION CONTROL (SEE CALTRANS STD. PLAN ES-9B) INSTALL 2" CONDUIT, 12PR#19 SIC, SEE TRAFFIC SIGNAL PLAN FOR DETAIL.
- 6 INSTALL 2" CONDUIT, 12PR#19 SIC, SEE TRAFFIC SIGNAL PLAN FOR DETAIL.
- 7 INSTALL 120/240 V TYPE III-BF SERVICE ENCLOSURE AND FOUNDATION WITH TYPE V PHOTO ELECTRIC CONTROL FOR CITY OWNED/MAINTAINED STREET LIGHTS:  
METER # 1 WITH 100 A MAIN BREAKER TYPE LS-3  
I-30 A - 120 V - 1P CB FOR CITY OF MONTCLAIR STREET LIGHTING SYSTEM
- 8 AMERON STEEL POLES(A258) SHALL BE MOUNTED ON TYPE 26 BARRIER TO BE MAINTAINED BY THE CITY OF MONTCLAIR.
- 9 CONDUIT PASS THROUGH BRIDGE GIRDER(S) PER CALTRANS STD. PLAN ES-9B DETAIL S.
- 10 INSTALL 2-2" CONDUIT, PULL ROPE AND PULL BOXES FOR FUTURE COMMUNICATIONS WIRE & IRRIGATION CONTROL (SEE CALTRANS STD. PLAN ES-9B)
- 11 FURNISH AND INSTALL 3" PVC SCHEDULE 40 WITH PULL-ROPE AND 3" PVC SCHEDULE 80 RISER SWEEP FROM P.P. #18201252 TO THE SERVICE ENCLOSURE PER EDISON REQUIREMENTS. AT LEAST 2 WEEKS ADVANCE NOTICE SHALL BE 120V METERED AND LIGHTING SHALL BE 120V UNMETERED. PROVISIONS SHALL BE MADE FOR MOUNTING THE TYPE "V" PHOTOELECTRIC UNIT IN THE SERVICE CABINET.



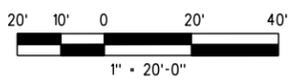
**TYPICAL SECTION**  
NTS



**PLAN**  
1" = 20'



**BRIDGE LIGHTING WIRING DIAGRAM**  
NTS



**100% SUBMITTAL**  
**NOT FOR CONSTRUCTION**  
MARCH 16, 2006

 Call: TOLL FREE 1-800-422-4133		<b>LIN Consulting, Inc.</b> Traffic, Civil, and Electrical Consulting Engineers 21660 E. COPLEY DRIVE, SUITE 270 DIAMOND BAR, CA 91765 PHONE: (909) 396-6850, FAX: (909) 396-8150 E-MAIL: INFO@LINCONSULTING.COM	COUNTY OF SAN BERNARDINO DEPARTMENT OF PUBLIC WORKS DRAWN BY: DESIGNED BY: PROJ. ENGR. RECOMMENDED /APPROVED BY: SUBMITTED BY: ASSISTANT DIRECTOR DATE: CHIEF TRAFFIC DIVISION DATE DIRECTOR OF PUBLIC WORKS DATE:	APPROVED _____ 2006 MICHAEL HUDSON, P.E. CITY ENGINEER, CITY OF MONTCLAIR REGISTERED CIVIL ENGINEER NO. _____ MY LICENSE EXPIRES _____ DRAWN BY: R. WOO CHECKED BY: D. LIN RECOMMENDED BY: D. LIN	CITY OF MONTCLAIR DEVELOPMENT SERVICES DEPARTMENT MONTE VISTA AVENUE GRADE SEPARATION STREET LIGHTING PLAN MONTE VISTA AVE AT BRIDGE OVERPASS	CITY FILE NO _____ DRAWING NO SL-006 SHEET <u>41</u> OF 82 SHEETS
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**SIGNAL GENERAL NOTES:**

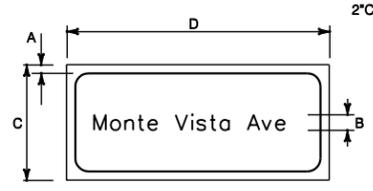
- 1-ALL PEDESTRIAN HEADS SHALL BE MODIFIED TYPE A WITH 2-LED INTERNATIONAL MESSAGE SYMBOLS. ALL PEDESTRIAN PUSH BUTTON SIGNS SHALL HAVE MESSAGE SYMBOLS.
- 2-ALL BACK PLATES AND VISORS SHALL BE METAL, NO PLASTIC PARTS WILL BE ALLOWED.
- 3-UNLESS OTHERWISE NOTED, ALL PULL BOXES SHALL BE #6 AND INSTALLED PER CALTRANS STANDARD PLAN ES-8.
- 4-PEDESTRIAN PUSH BUTTON SHALL BE PER CALTRANS STANDARD PLAN ES-5C (TYPE B) AND ES-7A.
- 5-SLEEVE NUTS SHALL BE USED FOR ALL (1-A) POLES PER CALTRANS STANDARD PLAN ES-7B.
- 6-ALL SIGNAL HEADS SHALL BE 12" LED.
- 7-SIGNAL POLE LOCATIONS ARE APPROXIMATE.
- 8-ALL BACK PLATES SHOULD BE LOUVERED.
- 9-PULL BOXES LOCATED IN ROADWAYS OR SHOULDER AREAS SUBJECT TO TRAFFIC, SHALL BE TRAFFIC TYPE PER CALTRANS STANDARD PLAN ES-8.
- 10-CONTRACTOR SHALL OBTAIN FROM THE ENGINEER THE EXACT EQUIPMENT LOCATIONS PRIOR TO FINAL PLACEMENT.
- 11-ALL UNUSED TENON(S) SHALL BE CAPPED.
- 12-TRAFFIC SIGNAL AND LIGHTING SHALL CONFORM TO THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS SECTION 86 AND STANDARD PLANS (DATED JULY 2002).
- 13-ALL REQUIRED CONSTRUCTION PERMITS SHALL BE OBTAINED FROM THE CITY OF MONTCLAIR ENGINEERING DIVISION.
- 14-EXISTING SIGNS, STRIPING, AND PAVEMENT MARKINGS TO BE REMOVED AT TRAFFIC SIGNAL TURN-ON WITH PROPER TRAFFIC CONTROL IN PLACE.

**SIGNAL CONSTRUCTION NOTES:**

- 1 FURNISH AND INSTALL TYPE 170 CONTROLLER ASSEMBLY, INCLUDING TYPE "R" CABINET, CLARY SP1000CR BATTERY BACK-UP SYSTEM AND APPURTENANT EQUIPMENT (SEE SPECIAL PROVISIONS). CONTROLLER CABINET AND FOUNDATION ARE TO BE INSTALLED PER CALTRANS STANDARD PLAN ES-3C. CONTRACTOR SHALL FURNISH AND INSTALL ANY ADDITIONAL ELECTRONIC EQUIPMENT REQUIRED TO PROVIDE THE DESIRED SIGNAL OPERATION AS SHOWN ON THE PLAN. THE CONTROLLER ASSEMBLY AND BATTERY BACK UP SYSTEM SHALL BE TESTED BY REPUBLIC ELECTRIC PRIOR TO INSTALLATION, SEE SPECIAL PROVISIONS.
- 2 FURNISH AND INSTALL 120/240V TYPE III-BF SIGNAL AND LIGHTING SERVICE AND FOUNDATION PER CALTRANS STD. PLAN ES-2E. INSTALL 1P-100A MAIN BREAKER, 1P-50A SIGNAL BREAKER, 1P-30A LIGHTING BREAKER. SIGNAL CIRCUIT SHALL BE 120V METERED AND LIGHTING SHALL BE 120V UNMETERED. PROVISIONS SHALL BE MADE FOR MOUNTING THE TYPE "V" PHOTOELECTRIC UNIT IN THE SERVICE CABINET.
- 3 FURNISH AND INSTALL 3"PVC SCHEDULE 40 WITH PULL-ROPE TO THE SERVICE ENCLOSURE AT STA 32+96 PER EDISON REQUIREMENTS. AT LEAST 2 WEEKS ADVANCE NOTICE SHALL BE GIVEN TO THE SOUTHERN CALIFORNIA EDISON COMPANY BY CONTACTING THE CUSTOMER SERVICE PLANNER PHILIP LAMBERT AT (909)796-9842. EXACT LOCATION SHALL BE DETERMINED BY S.C.E. IN THE FIELD.
- 4 FURNISH AND INSTALL VEHICLE DETECTION SYSTEM. CAMERAS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- 5 FURNISH AND INSTALL DOUBLE SIDED REFLECTIVE STREET NAME SIGNS PER DETAILS SHOWN ON PLAN. SIGN PANEL SHALL BE ALUMINUM BASE METAL SURFACED WITH "V.I.P." REFLECTIVE SHEETING.
- 6 FURNISH AND INSTALL SIGNS ON MAST ARM OR POLE AS SHOWN. SIGN(S) SHALL BE ALUMINUM-BASE METAL SURFACED WITH "V.I.P." REFLECTIVE SHEETING.
- 7 FURNISH AND INSTALL TYPE "V" PHOTOELECTRIC CONTROL (LIGHTING TYPE) AT SERVICE CABINET.
- 8 FURNISH AND INSTALL SWITCH AND ENCLOSURE FOR 07 PREEMPTION. CONTACT FIRE DIVISION CHIEF MR. DAN TAPIA (909) 628-1217 FOR EXACT LOCATION OF PREEMPTION EQUIPMENT.
- 9 FURNISH AND INSTALL 3M OPTICOM MODEL 711 EMERGENCY VEHICLE PREEMPTION (E.V.P.) SYSTEM. THE SYSTEM SHALL BE INSTALLED PER THE MANUFACTURER'S SPECIFICATION AND DETAIL "Z" HEREON.

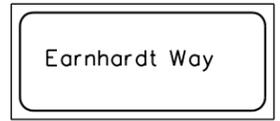


(G7) DETAIL "G" NTS



(G7) DETAIL "I" NTS

BACKGROUND - YELLOW (REFLECTIVE)  
LETTER AND BORDER - BLACK (NON-REFLECTIVE)



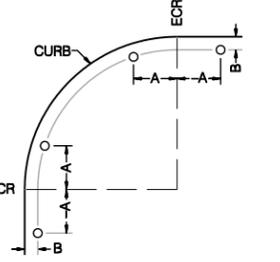
(G7) DETAIL "H" NTS

**LEGEND:**

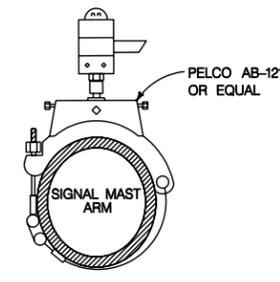
- A 1/2" WHITE REFLECTIVE BORDER
- B 8" U.C. AND 6" L.C.
- C 18"
- D VARIES

**NOTE:**

DETAILS "H" AND "I"  
BACKGROUND COLOR = GREEN (NON-REFLECTIVE)  
LETTER COLOR = WHITE (REFLECTIVE)



POLE LOCATION DETAIL N.T.S.



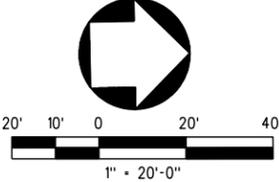
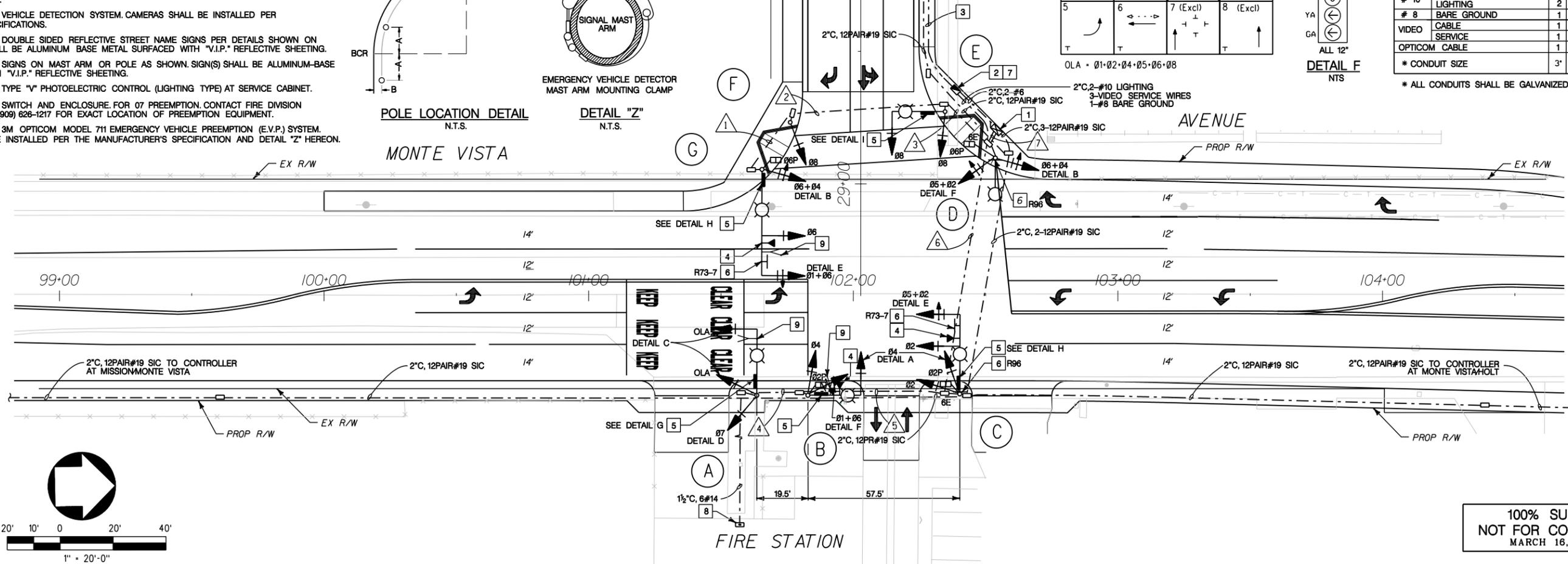
DETAIL "Z" N.T.S.

POLE AND EQUIPMENT SCHEDULE													
NO	STANDARD				POLE LOCATION		VEH SIG MTG	PED SIGNAL	PED PUSH BUTTON	HPSV LUMINAIRE	REFLECTIVE STREET NAME SIGN		
	TYPE	SIG MA	"F" SPACING	LUM MA	A	B							
(A)	19-3-129	25'	-	15'	SEE PLAN	5.5'	MAS	SV-2-TA	-	-	200W	SEE DETAIL G	
(B)	17-3-129	20'	-	15'	SEE PLAN	5.5'	MAS	SV-2-TA	2	SP-1-T	2	200W	SEE DETAIL I
(C)	19-4-129	30'	12'	15'	SEE PLAN	5.5'	MAS	SV-2-TA	2	SP-1-T	2	200W	SEE DETAIL H
(D)	15TS*	-	-	15'	22'	3'	-	SV-2-TA	6	SP-1-T	6	200W	-
(E)	17-3-129	20'	-	15'	22'	3'	MAS	SV-1-T	-	-	-	200W	SEE DETAIL I
(F)	1-A	-	-	-	13'	3'	-	TV-1-T	-	-	-	-	-
(G)	26-4-129	40'	15'	15'	33'	3'	MAS	SV-1-T	6	SP-1-T	6	200W	SEE DETAIL H

ALL EQUIPMENT IS NEW, UNLESS OTHERWISE NOTED.  
\* PER 2004 CALTRANS TRAFFIC MANUAL.

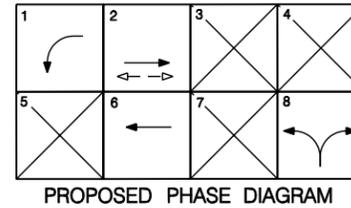
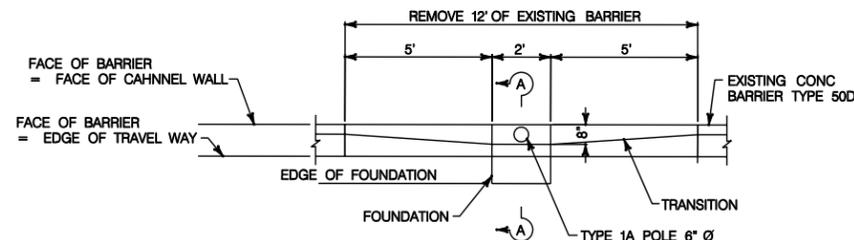
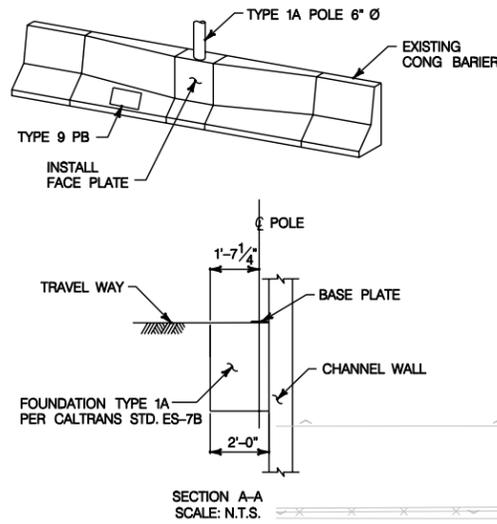
CONDUCTOR AND CONDUIT SCHEDULE									
CABLE, AWG, SCHEDULE	CABLE TYPE	CONDUCTOR RUN NUMBER AND SIZE							
		1	2	3	4	5	6	7	8
VEH-PED 12CSC	(A)								
	(B)								
	(C)								
	(D)								
	(E)								
	(F)								
	(G)								
PPB 3CSC	(A)								
	(B)								
# 14 07 PREEMPTION	SIGNAL COMMON	1	1	1	1	1	1	1	1
# 10 LIGHTING		2	2	2	2	2	2	2	2
# 8 BARE GROUND		1	1	1	1	1	1	1	1
VIDEO CABLE	SERVICE	1	1	1	1	1	2	3	
OPTICOM CABLE		1	1	1	1	2	2	3	
* CONDUIT SIZE		3"	3"	3"	3"	3"	2-3"		

\* ALL CONDUITS SHALL BE GALVANIZED RIGID STEEL.



100% SUBMITTAL  
NOT FOR CONSTRUCTION  
MARCH 16, 2006

	<p><b>LIN Consulting, Inc.</b> Traffic, Civil, and Electrical Consulting Engineers 21660 E. COPLEY DRIVE, SUITE 270 DIAMOND BAR, CA 91765 PHONE: (909) 396-6850, FAX: (909) 396-8150 E-MAIL: INFO@LINCONSULTING.COM</p>	<p>COUNTY OF SAN BERNARDINO DEPARTMENT OF PUBLIC WORKS</p>	<p>APPROVED _____ 2006 MICHAEL HUDSON, P.E. CITY ENGINEER, CITY OF MONTCLAIR REGISTERED CIVIL ENGINEER NO. _____ MY LICENSE EXPIRES _____ DRAWN BY: R. WOO CHECKED BY: D. LIN RECOMMENDED BY: D. LIN</p>	<p>CITY OF MONTCLAIR DEVELOPMENT SERVICES DEPARTMENT MONTE VISTA AVENUE GRADE SEPARATION TRAFFIC SIGNAL PLAN MONTE VISTA AVENUE AT EARNHARDT WAY</p>	<p>CITY FILE NO _____ DRAWING NO TR-001 SHEET 42 OF 82 SHEETS</p>
	<p>DATE 03/16/06</p>	<p>DRAWN BY: R. WOO DESIGNED BY: _____ PROJ. ENGR. _____ RECOMMENDED / APPROVED BY _____ SUBMITTED BY _____ ASSISTANT DIRECTOR _____ DATE _____ CHIEF TRAFFIC DIVISION _____ DATE _____ DIRECTOR OF PUBLIC WORKS _____ DATE _____</p>	<p>MARK _____ REVISIONS _____ BY _____ APPR. _____ DATE _____</p>	<p>RECOMMENDED BY: D. LIN</p>	<p>DATE</p>



POLE AND EQUIPMENT SCHEDULE													
NO	STANDARD				POLE LOCATION		VEH SIG MTG		PED SIGNAL MTG	PPB		HPS LUMINAIRE	REFLECTIVE STREET NAME SIGN
	TYPE	SIG MA	"F"	LUM MA	A	B	MAST	POLE		Ø	ARROW		
(A)	1-A(10)*	-	-	-	SEE PLAN	SEE PLAN	-	TV-2-T	-	-	-	-	-
(B)	26-4-129	40'	15'	15'	18'	4.5'	MAS MAS	SV-1-T	SP-1-T	2	→	200W	SEE DETAIL "B"
(C)	15TS**	-	-	15'	17.5'	2.5'	-	-	-	-	-	200W	-
(D)	1-A(10)	-	-	-	18'	2.5'	-	TV-1-T	-	-	-	-	-
(E)	19-4-129	15'	-	15'	25.8'	2.5'	MAS	SV-1-T	SP-1-T	2	←	200W	SEE DETAIL "B"
(F)	1-A(10)*	-	-	-	SEE PLAN	SEE PLAN	-	TV-2-T	-	-	-	-	-

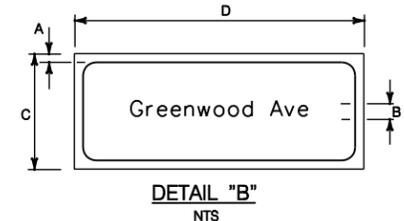
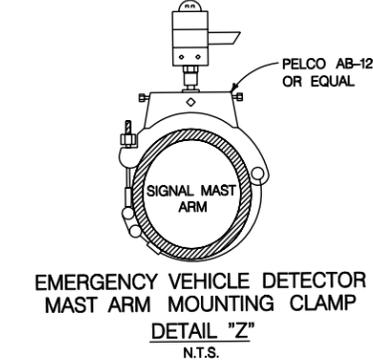
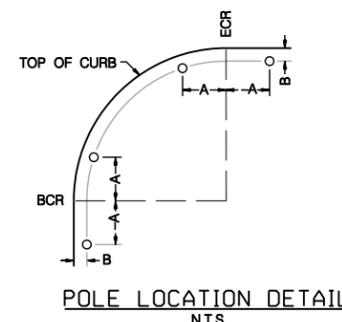
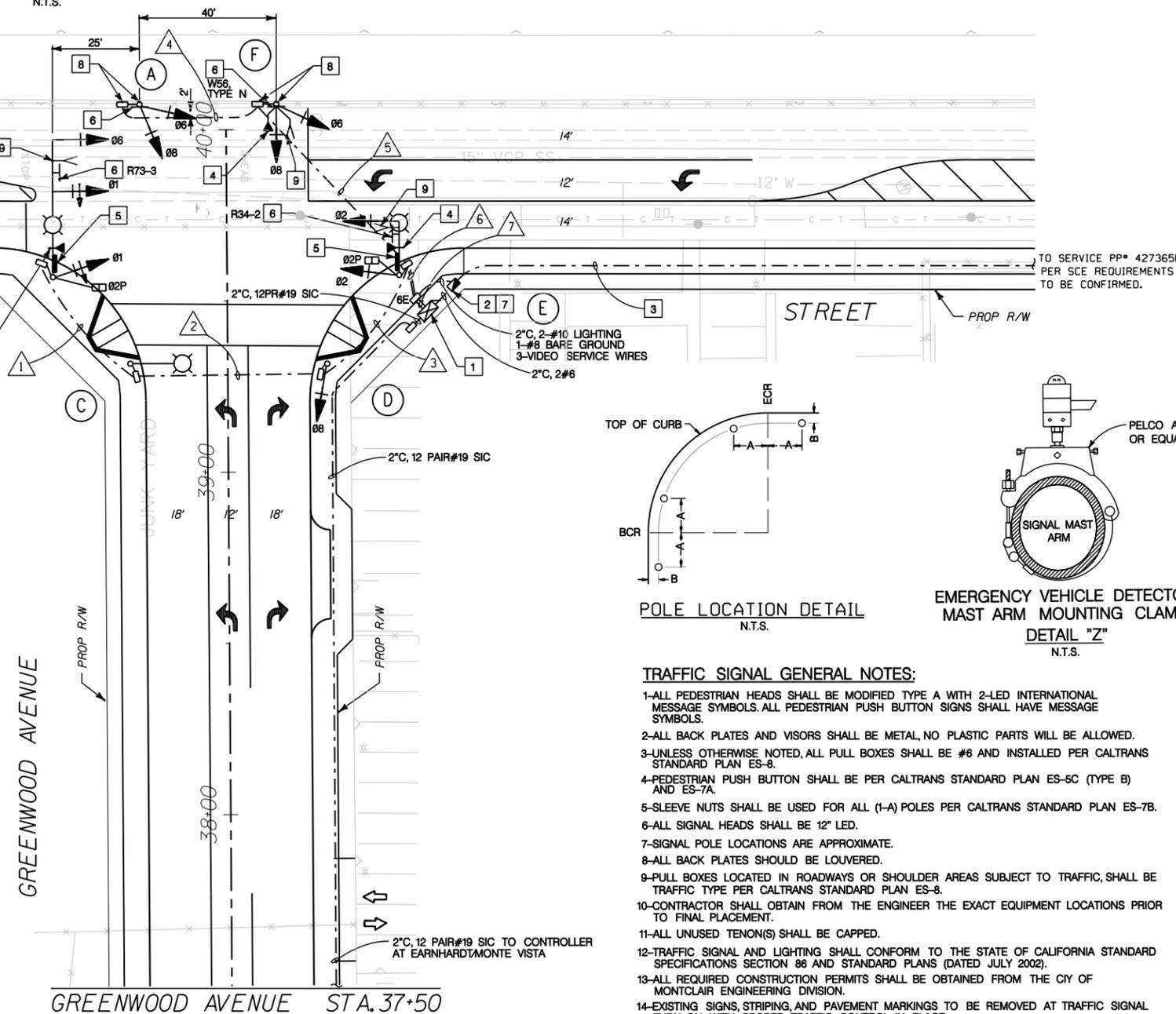
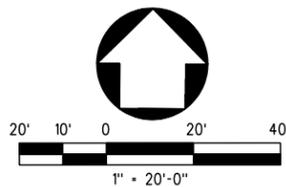
\* REFER TO CUSTOMIZED FOUNDATIONS DETAIL ON THE LEFT (DETAIL "D")  
 \*\* PER 2004 CALTRANS TRAFFIC MANUAL.

CONDUCTOR AND CONDUIT SCHEDULE								
CABLE, AWG, AND DLC SCHEDULE		CONDUCTOR RUN NUMBER AND SIZE						
CABLE TYPE	S/D	1	2	3	4	5	6	7
VEH-PED 12CSC PPB 3CSC	(A)	1	1	1	1	1	1	1
	(B)	1	1	1	1	1	1	1
	(C)	1	1	1	1	1	1	1
	(D)	1	1	1	1	1	1	1
	(E)	1	1	1	1	1	1	1
	(F)	1	1	1	1	1	1	1
# 10 SIGNAL COMMON LIGHTING		1	1	1	1	1	1	1
# 8 BARE GROUND		2	2	2	2	2	2	2
VIDEO CABLE SERVICE		1	1	1	1	1	1	1
OPTICOM CABLE		1	1	1	1	1	1	1
* CONDUIT SIZE		3"	3"	3"	3"	3"	2-3"	2-3"

\* ALL CONDUITS SHALL BE GALVANIZED RIGID STEEL.

**SIGNAL CONSTRUCTION NOTES:**

- FURNISH AND INSTALL TYPE 170 CONTROLLER ASSEMBLY, INCLUDING TYPE "R" CABINET, CLARY SP1000CR BATTERY BACK-UP SYSTEM AND APPURTENANT EQUIPMENT (SEE SPECIAL PROVISIONS). CONTROLLER CABINET AND FOUNDATION ARE TO BE INSTALLED PER CALTRANS STANDARD PLAN ES-3C. CONTRACTOR SHALL FURNISH AND INSTALL ANY ADDITIONAL ELECTRONIC EQUIPMENT REQUIRED TO PROVIDE THE DESIRED SIGNAL OPERATION AS SHOWN ON THE PLAN. THE CONTROLLER ASSEMBLY AND BATTERY BACK-UP SYSTEM SHALL BE TESTED BY REPUBLIC ELECTRIC PRIOR TO INSTALLATION, SEE SPECIAL PROVISIONS.
- FURNISH AND INSTALL 120240V TYPE III-BF SIGNAL AND LIGHTING SERVICE AND FOUNDATION PER CALTRANS STD. PLAN ES-2E. INSTALL 1P-100A MAIN BREAKER, 1P-50A SIGNAL BREAKER, 1P-30A LIGHTING BREAKER. SIGNAL CIRCUIT SHALL BE 120V METERED AND LIGHTING SHALL BE 120V UNMETERED. PROVISIONS SHALL BE MADE FOR MOUNTING THE TYPE "V" PHOTOELECTRIC UNIT IN THE SERVICE CABINET.
- FURNISH AND INSTALL 3" PVC SCHEDULE 40 WITH PULL-ROPE AND 3" PVC SCHEDULE 80 RISER WITH 36" SWEEP FROM P.P.#427365E TO THE SERVICE ENCLOSURE PER EDISON REQUIREMENTS. AT LEAST 2 WEEKS ADVANCE NOTICE SHALL BE GIVEN TO THE SOUTHERN CALIFORNIA EDISON COMPANY BY CONTACTING THE CUSTOMER SERVICE PLANNER PHILIP LAMBERT AT (714)796-9842. EXACT LOCATION SHALL BE DETERMINED BY S.C.E. IN THE FIELD.
- FURNISH AND INSTALL VEHICLE DETECTION SYSTEM. CAMERAS SHALL BE INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS.
- FURNISH AND INSTALL DOUBLE SIDED REFLECTIVE STREET NAME SIGN SHALL BE PER DETAILS SHOWN ON PLAN. SIGN PANEL SHALL BE ALUMINUM BASE METAL SURFACED WITH VIP REFLECTIVE SHEETING.
- FURNISH AND INSTALL SIGN ON MAST ARM OR POLE. SIGN PANEL SHALL BE ALUMINUM-BASE METAL SURFACED WITH "V.I.P." REFLECTIVE SHEETING.
- FURNISH AND INSTALL TYPE "V" PHOTOELECTRIC CONTROL (LIGHTING TYPE) AT SERVICE CABINET.
- FURNISH AND INSTALL NO.9 PULL BOX PER CALTRANS STD. PLAN ES-9C, AND CUSTOMIZED FOUNDATIONS FOR THE TYPE 1-A STANDARD PER CALTRANS STD. PLAN ES-7B AND DETAIL "D" ABOVE HEREON.
- FURNISH AND INSTALL 3M OPTICOM MODEL 711 EMERGENCY VEHICLE PREEMPTION (E.V.P) SYSTEM. THE SYSTEM SHALL BE INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS AND DETAIL "Z". HEREON.



- TRAFFIC SIGNAL GENERAL NOTES:**
- ALL PEDESTRIAN HEADS SHALL BE MODIFIED TYPE A WITH 2-LED INTERNATIONAL MESSAGE SYMBOLS. ALL PEDESTRIAN PUSH BUTTON SIGNS SHALL HAVE MESSAGE SYMBOLS.
  - ALL BACK PLATES AND VISORS SHALL BE METAL, NO PLASTIC PARTS WILL BE ALLOWED.
  - UNLESS OTHERWISE NOTED, ALL PULL BOXES SHALL BE #6 AND INSTALLED PER CALTRANS STANDARD PLAN ES-8.
  - PEDESTRIAN PUSH BUTTON SHALL BE PER CALTRANS STANDARD PLAN ES-5C (TYPE B) AND ES-7A.
  - SLEEVE NUTS SHALL BE USED FOR ALL (1-A) POLES PER CALTRANS STANDARD PLAN ES-7B.
  - ALL SIGNAL HEADS SHALL BE 12" LED.
  - SIGNAL POLE LOCATIONS ARE APPROXIMATE.
  - ALL BACK PLATES SHOULD BE LOUVERED.
  - PULL BOXES LOCATED IN ROADWAYS OR SHOULDER AREAS SUBJECT TO TRAFFIC, SHALL BE TRAFFIC TYPE PER CALTRANS STANDARD PLAN ES-8.
  - CONTRACTOR SHALL OBTAIN FROM THE ENGINEER THE EXACT EQUIPMENT LOCATIONS PRIOR TO FINAL PLACEMENT.
  - ALL UNUSED TENON(S) SHALL BE CAPPED.
  - TRAFFIC SIGNAL AND LIGHTING SHALL CONFORM TO THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS SECTION 86 AND STANDARD PLANS (DATED JULY 2002).
  - ALL REQUIRED CONSTRUCTION PERMITS SHALL BE OBTAINED FROM THE CITY OF MONTCLAIR ENGINEERING DIVISION.
  - EXISTING SIGNS, STRIPING, AND PAVEMENT MARKINGS TO BE REMOVED AT TRAFFIC SIGNAL TURN-ON WITH PROPER TRAFFIC CONTROL IN PLACE.

- LEGEND:**
- A 1/2" WHITE REFLECTIVE BORDER
  - B 8" U.C. AND 6" L.C.
  - C 18"
  - D VARIES
- NOTE:**  
 DETAIL "B"  
 BACKGROUND COLOR = GREEN (NON-REFLECTIVE)  
 LETTER COLOR = WHITE (REFLECTIVE)

100% SUBMITTAL  
 NOT FOR CONSTRUCTION  
 MARCH 16, 2006

	<b>LIN Consulting, Inc.</b> Traffic, Civil, and Electrical Consulting Engineers 21660 E. COPLEY DRIVE, SUITE 270 DIAMOND BAR, CA 91765 PHONE: (909) 396-6850, FAX: (909) 396-8150 E-MAIL: INFO@LINCONSULTING.COM	COUNTY OF SAN BERNARDINO DEPARTMENT OF PUBLIC WORKS	APPROVED _____ 2006 MICHAEL HUDSON, P.E. CITY ENGINEER, CITY OF MONTCLAIR REGISTERED CIVIL ENGINEER NO. _____ MY LICENSE EXPIRES _____	CITY OF MONTCLAIR DEVELOPMENT SERVICES DEPARTMENT MONTE VISTA AVENUE GRADE SEPARATION TRAFFIC SIGNAL PLAN STATE STREET AT GREENWOOD AVENUE	CITY FILE NO _____ DRAWING NO TR-002 SHEET 43 OF 82 SHEETS
	DENNUN LIN R.C.E. 46719 MY LICENSE EXPIRES 06-30-07 LCI JOB NO. P9120	DRAWN BY _____ DESIGNED BY _____ PROJ. ENGR. _____ RECOMMENDED / APPROVED BY _____ SUBMITTED BY _____ CHIEF TRAFFIC DIVISION _____ DATE _____	ASSISTANT DIRECTOR _____ DATE _____ DIRECTOR OF PUBLIC WORKS _____ DATE _____	CHECKED BY: D. LIN RECOMMENDED BY: D. LIN	REVISIONS BY _____ APPR. _____ DATE _____