

RIVERSIDE



CALIFORNIA

PUBLIC WORKS DEPARTMENT

ARLINGTON AVENUE UNDERPASS

AT BNSF RAILROAD CROSSING

FEDERAL AID PROJECT NUMBER CML-5058(041)

GENERAL CONSTRUCTION NOTES

- EXISTING UTILITIES SHOWN ON THE PLAN, ARE PLOTTED FROM UTILITY RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO LOCATE AND PROTECT ALL UTILITIES WHETHER OR NOT SHOWN ON THIS PLAN.
- PRIME CONTRACTORS BIDDING THIS WORK SHALL HAVE A CLASS "A" LICENSE.
- ALL ELEVATIONS SHOWN ON THE PLANS SHALL BE STAKED IN THE FIELD.
- CONFLICTING UTILITIES IN THE CONSTRUCTION AREA SHALL BE RELOCATED OR ABANDONED.
- RIGHTS OF ENTRY FOR ALL PROPERTIES ON ARLINGTON AVENUE BETWEEN INDIANA AVENUE AND McMAHON STREET AND ON MAUDE STREET SOUTH OF ARLINGTON AVENUE HAVE BEEN OBTAINED BY THE CITY OF RIVERSIDE.

PARK AND RECREATION NOTES

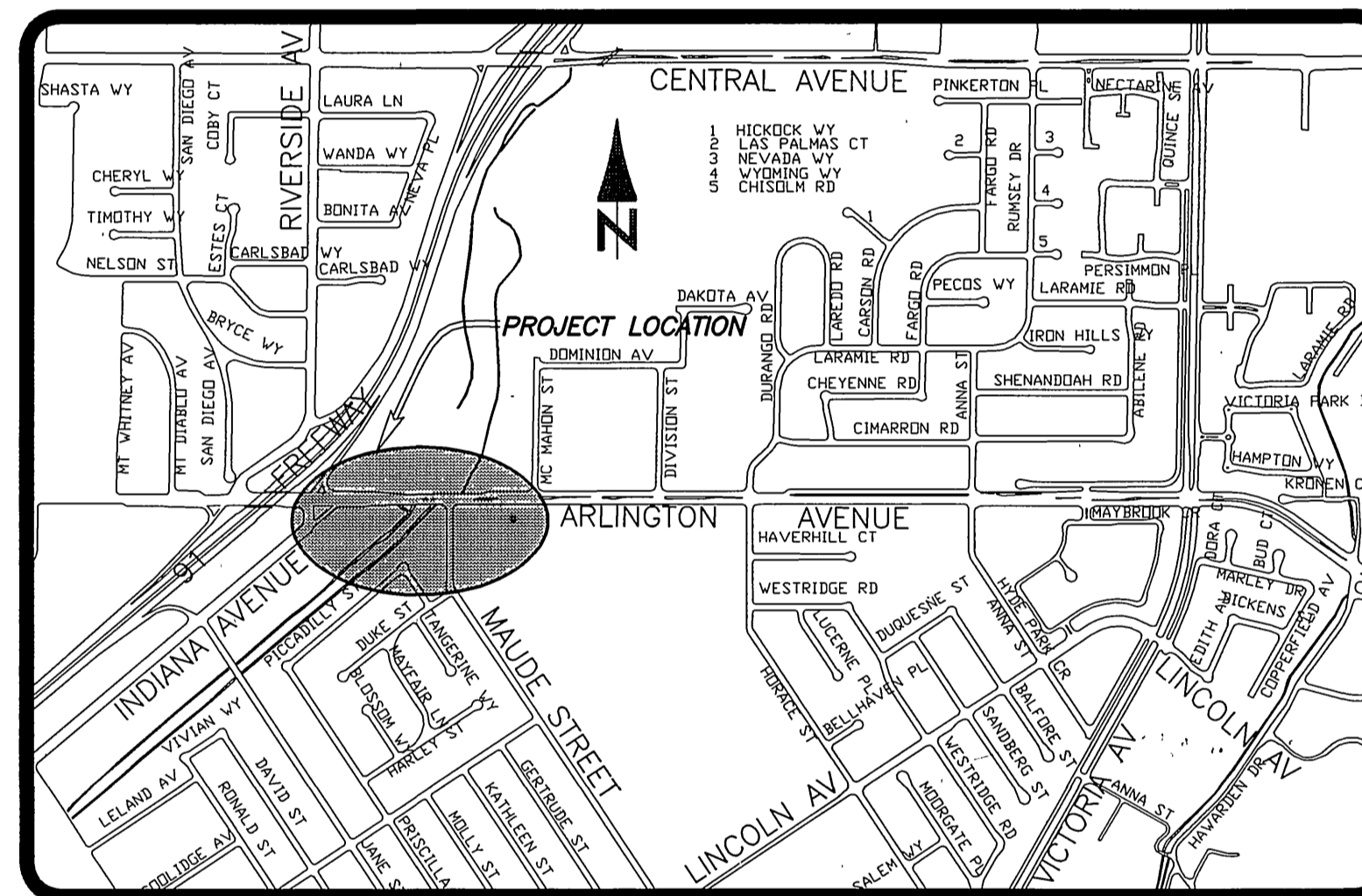
- ALL RELATED WORK SHALL CONFORM TO THE CITY OF RIVERSIDE PARK AND RECREATION DEPT. STANDARDS AND CITY OF RIVERSIDE STREET TREE POLICIES.
- WHEN CALLING FOR INSPECTIONS, CONTACT THE STREET TREE INSPECTOR A MINIMUM OF 48 HOURS IN ADVANCE AT (909) 351-6126 TO SCHEDULE AN INSPECTION. A FIELD NOTICE WILL BE ISSUED AS WRITTEN APPROVAL FOR EACH STAGE OF INSPECTION. A VERBAL APPROVAL WILL NOT BE ACCEPTABLE. INSPECTIONS ARE REQUIRED:
 - AFTER COMPLETION OF FINAL GRADING AND WHEN ALL UTILITY SERVICES AND SEWER LATERALS HAVE BEEN MARKED, BUT PRIOR TO DIGGING PLANT PITS, ALL FINAL STREET TREE LOCATIONS ARE TO BE SPOTTED IN THE FIELD BY THE STREET TREE INSPECTOR.
 - WHILE DIGGING PLANT PITS AND PLANTING/RELOCATING TREES.
 - AFTER PLANTING AND ALL OTHER INDICATED OR SPECIFIED WORK HAS BEEN COMPLETED, FOR START OF MAINTENANCE.
 - AT END OF MAINTENANCE PERIOD, THE CONTRACTOR SHALL CALL THE STREET TREE INSPECTOR AT (909) 351-6126 FOR A FINAL ACCEPTANCE INSPECTION IN ORDER TO BE RELEASED FROM MAINTENANCE. CONTRACTORS BONDS WILL NOT BE RELEASED UNTIL AFTER RECEIPT OF WRITTEN NOTIFICATION FROM THE CITY THAT THE TREES PASS FINAL INSPECTION AND THE PARK AND RECREATION DEPARTMENT IS ASSUMING MAINTENANCE RESPONSIBILITY.
- BOTH A STREET TREE RELOCATION/REMOVAL PERMIT AS ISSUED BY THE PARK AND RECREATION DEPARTMENT AND A STREET OPENING PERMIT AS ISSUED BY THE PUBLIC WORKS DEPARTMENT ARE REQUIRED PRIOR TO COMMENCEMENT OF TREE RELOCATION AND/OR REMOVAL WORK. FOR ALL EXISTING TREES WITHIN WHAT WILL ULTIMATELY BE THE PUBLIC RIGHT-OF-WAY PAVEMENT AREA, BACKFILL OF ALL HOLES MUST BE INSPECTED BY THE PUBLIC WORKS INSPECTOR FOR PROPER COMPACTION.
- IN THE INTEREST OF PUBLIC SAFETY AND MAINTENANCE, THE STREET TREE INSPECTOR SHALL HAVE THE AUTHORITY TO REVISE THE STREET TREE QUANTITIES AND LOCATIONS SHOWN ON APPROVED PLANS BASED UPON FIELD CONDITIONS FOUND AT THE TIME OF INSTALLATION OF THE TREES.

SHEET INDEX

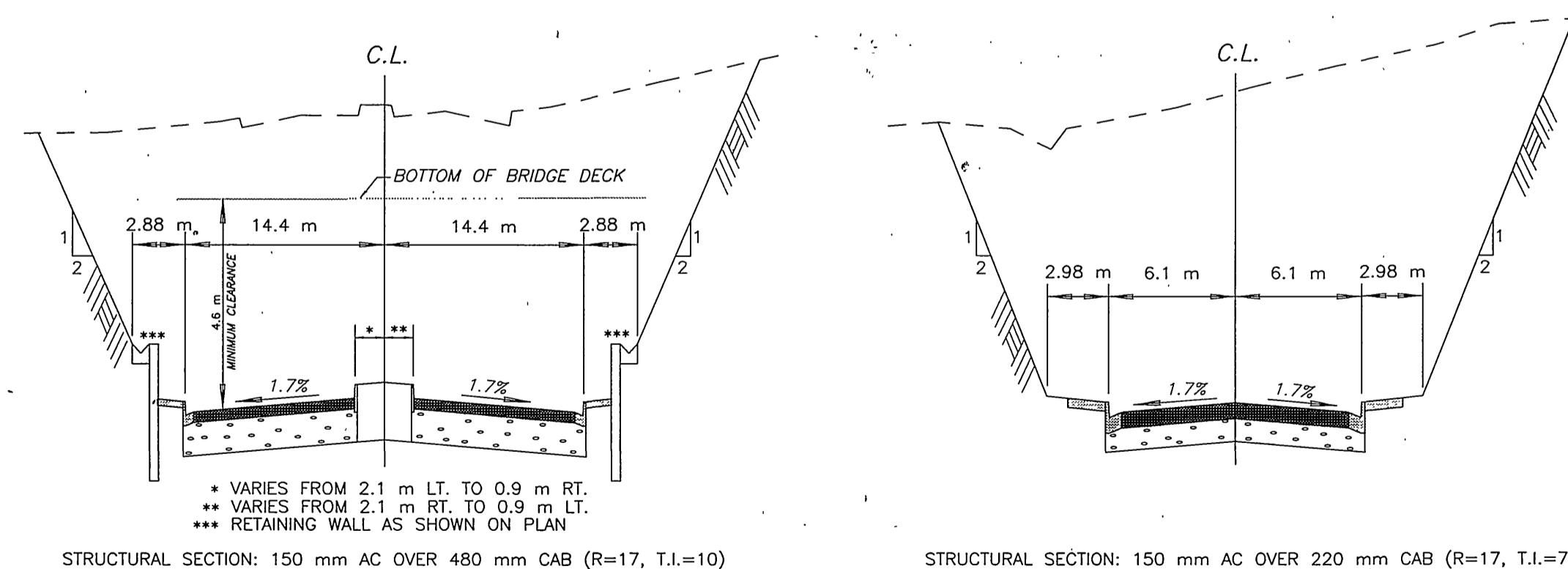
- R-3425 SHEETS 1-8: STREET IMPROVEMENT PLANS.
- R-3425 SHEETS 9-12: RETAINING WALL AND RETAINING CURB PLANS AND DETAILS.
- R-3425 SHEETS L1-L3: LANDSCAPE AND HARDSCAPE PLANS.
- R-3425 SHEETS IRR1-IRR2: IRRIGATION PLANS.

CALTRANS GENERAL NOTES

- AN ENCROACHMENT PERMIT IS REQUIRED BEFORE ANY WORK MAY BEGIN IN OR NEAR THE STATE RIGHT-OF-WAY.
- ALL WORK WITHIN THE STATE RIGHT-OF-WAY SHALL BE COMPLETED IN ACCORDANCE WITH THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, METRIC STANDARD SPECIFICATIONS DATED JULY, 1995. SHOULD A CONFLICT ARISE BETWEEN THE CONTRACT PLANS, SPECIFICATIONS AND/OR DETAILS PREPARED BY THE PERMITTEE, THE STATE'S STANDARD SPECIFICATIONS SHALL GOVERN AS DETERMINED BY THE STATE'S REPRESENTATIVE (STANDARDS OTHER THAN STATE MUST BE PRE-APPROVED AND JUSTIFIED).
- NO EQUIPMENT OR MATERIALS MAY BE STORED ON THE STATE RIGHT-OF-WAY.
- ALL DISTURBED AREAS IN THE STATE RIGHT-OF-WAY MUST BE TREATED FOR EROSION CONTROL (HYDROSEEDING OR EQUIVALENT, OR AS DIRECTED BY THE STATE'S REPRESENTATIVE). THE RESPONSIBILITY FOR MAINTAINING EROSION CONTROL WILL NOT BE RELEASED UNTIL THE SEEDING IS WELL ESTABLISHED. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF CALTRANS CLEANING ANY DRAINAGE STRUCTURES / CHANNELS WHICH HAVE BECOME CLUTTERED WITH DEBRIS AND / OR SILT AS A RESULT OF, OR CAUSED BY, THE CONSTRUCTION PROJECT.
- ACCESS CONTROL ON THE FREEWAY WILL BE MAINTAINED AT ALL TIMES, I.E., THE WORK INSIDE THE STATE RIGHT-OF-WAY MUST BE FENCED OFF WITH NO ACCESS TO THE WORK AREA FROM THE FREEWAY.
- NO FREEWAY RAMP OR FREEWAY LANES MAY BE CLOSED OR OBSTRUCTED AT ANYTIME UNLESS SPECIFICALLY ALLOWED PER THE ENCROACHMENT PERMIT AND/OR AS DIRECTED BY THE STATE'S REPRESENTATIVE.
- ALL FENCE RELOCATED TO FACILITATE THE CONSTRUCTION OF THIS PROJECT INSIDE THE STATE RIGHT-OF-WAY SHALL BE REPLACED WITH CL-6 FENCE AS SHOWN IN THE STATE'S STANDARD PLANS OR WITH A BLOCK WALL IN ACCORDANCE WITH ACCEPTABLE LOCAL AGENCY STANDARDS.
- WHERE TYPE CL-6 FENCE DOES NOT EXIST, THE STATE RIGHT-OF-WAY FENCE MUST BE UPGRADED TO TYPE CL-6 FENCE, AS SHOWN IN THE STANDARD PLANS.
- WHERE SURVEY MONUMENTS EXIST, SUCH MONUMENTS SHALL BE PROTECTED OR SHALL BE REFERENCED AND RESET PURSUANT TO BUSINESS AND PROFESSIONS CODE, SECTIONS 8700 TO 8805 (LAND SURVEYOR'S ACT).
- ALL SIGNING, STRIPING AND PAVEMENT MARKINGS WITHIN STATE RIGHT-OF-WAY SHALL BE IN CONFORMANCE WITH THE CURRENT EDITION OF THE TRAFFIC MANUAL, PUBLISHED BY THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, AND THE SPECIAL PROVISIONS. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED ON THE PLANS.
- THE EXACT LOCATION OF ALL SIGNS SHALL BE DETERMINED IN THE FIELD BY THE STATE'S REPRESENTATIVE.
- ALL CONFLICTING STRIPING AND PAVEMENT MARKINGS NOT SHOWN ON THE PLANS SHALL BE REMOVED FROM THE PAVEMENT BY SANDBLASTING BY THE CONTRACTOR.
- ALL CONFLICTING SIGNS SHALL BE EITHER REMOVED OR RELOCATED BY THE CONTRACTOR. RELOCATABLE SIGNS SHALL BE INSTALLED AS SPECIFIED ON THE PLANS OR AS DETERMINED IN THE FIELD BY THE STATE'S REPRESENTATIVE.
- ALL SIGNS, ROADSIDE MARKERS, ELECTROLIERS, ETC., SHALL BE PROTECTED AND/OR REPLACED IN-KIND ACCORDING TO THE CURRENT STATE STANDARD PLANS AND THE CURRENT TRAFFIC MANUAL, AT NO COST TO THE STATE.



PROJECT LOCATION PLAN
(NOT TO SCALE)



TYPICAL CROSS SECTIONS
(NOT TO SCALE)

SPECIFIC CONSTRUCTION NOTES

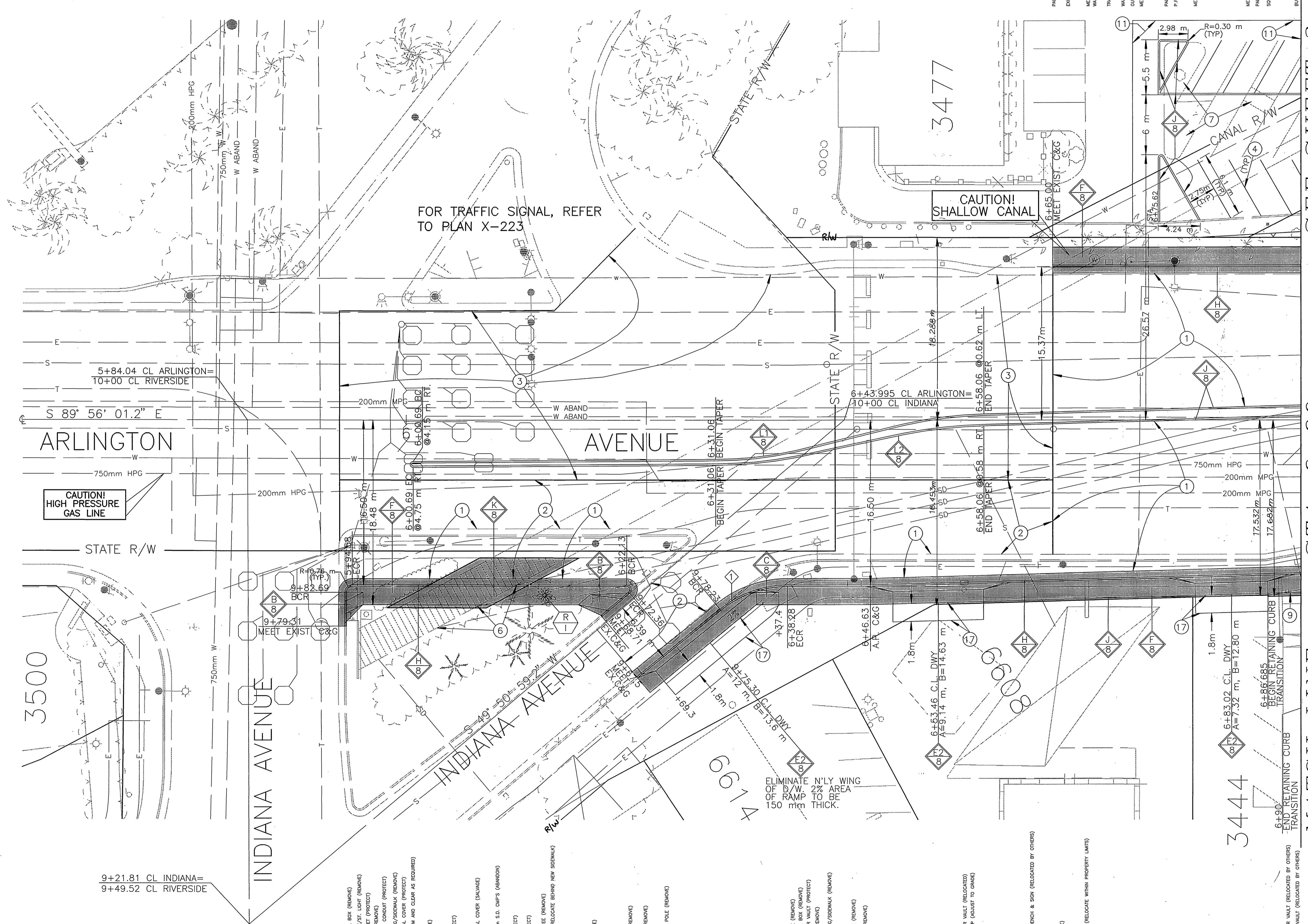
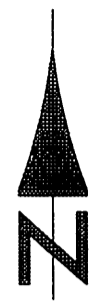
- NUMBERS ABOVE 100 IN A HEXAGON ON THE PLAN REFER TO THE RESPECTIVE STANDARD DRAWING AND SHALL BE CONSTRUCTED ACCORDINGLY, UNLESS MODIFICATIONS ARE NOTED ON THE PLAN. ANY NUMBER SHOWN BELOW THE STANDARD DRAWING NUMBER INDICATES THE SPECIFIC ALTERNATE TO BE CONSTRUCTED.
- REMOVE TREE TREE CLASS
- ADJUST SEWER/STORM DRAIN MANHOLE TO GRADE
- DETAIL NUMBER SHEET NUMBER
- STATE STANDARD PLAN NUMBER
- DETAIL NUMBER

* AS-BUILT 9-7-2000 LHH

CALTRANS ENCROACHMENT PERMIT NUMBER:
08-98-N-MC-0075
08-RIV-91-17.538

	CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT		ACCOUNT NUMBER 432-541500-440302-30268
	ENGINEER IN RESPONSIBLE CHARGE PHILIP L. HANNAWI R.C.E. No. 44747 Expires 3/31/2002 DATE 5/5/98	APPROVED BY R. Mc Grath DEPUTY P.W. DIRECTOR PUBLIC WORKS DIRECTOR DATE 6-7-98	
DESIGNED BY P.H. DRAWN BY P.H. CHECKED BY			SHEET 1 OF 12 FILE NO.

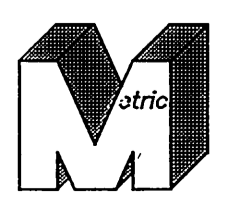
INDEXED 9-7-2000 LHH



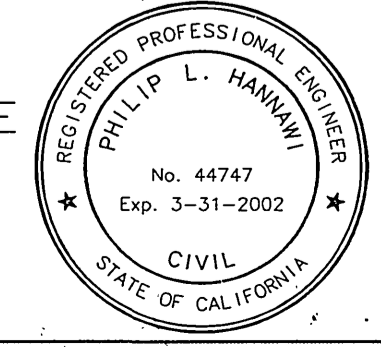
CONSTRUCTION NOTES

- ① CONSTRUCT 150 mm ASPHALT CONCRETE OVER 480 mm CRUSHED AGGREGATE BASE.
- ② CONSTRUCT VARIABLE THICKNESS ASPHALT CONCRETE OVERLAY (30 mm MINIMUM).
- ③ COLD MILL 30 mm THICK ASPHALT CONCRETE PAVEMENT AND REPLACE WITH 30 mm THICK ASPHALT CONCRETE OVERLAY.
- ④ PAINT 100mm WHITE STRIPE.
- ⑥ ABANDON THREE STORM DRAIN PIPES. CONSTRUCT 900 mm STORM DRAIN PIPE, AND RECONSTRUCT CANAL LINING. SEE PLAN D-642 SHEET 8.
- ⑦ CONSTRUCT 75 mm ASPHALT CONCRETE OVER 100 mm CRUSHED AGGREGATE BASE.
- ⑨ TRANSITION RETAINING CURB FROM ZERO HEIGHT TO FULL HEIGHT AS REQUIRED IN THE FIELD.
- ⑩ CONSTRUCT 800 mm HIGH RETAINING CURB PER RETAINING CURB DETAIL ON SHEET 12.
- ⑪ SLURRY SEAL PARKING LOT TO THE LIMITS SHOWN ON PLAN.
- ⑰ CONSTRUCT 65mm ASPHALT CONCRETE OVER COMPACTED NATIVE SOIL.

CURVE DATA			
Station	R (m)	L (m)	T (m)
1	39' 28" 50.6"	10.67	7.35, 3.83



ENGINEER IN RESPONSIBLE CHARGE
Philip L. Hannawi
 PHILIP L. HANNAWI
 R.C.E. No. 44747 Expires 3/31/2002
 DATE 5/5/98



MARK	REVISIONS	APPR.	DATE

CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT
 APPROVED BY: **R.M. Gratz**
 DEPUTY P.W. DIRECTOR
 PRINCIPAL ENGINEER
 STREET DIVISION
 TRAFFIC DIVISION
 SURVEYOR
 DATE 5-7-98

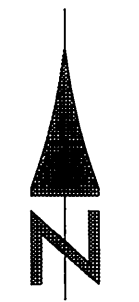
ARLINGTON AVENUE
 UNDERPASS
 AT BNSF RAILROAD CROSSING
 HORIZONTAL SCALE: 1:200

ACCOUNT NUMBER
 432-541500-440302-30268
R-3425
 SHEET 2 OF 12
 FILE NO. :

SEE SHEET 3

STA. 6+90

MATCH LINE



SEE SHEET 2

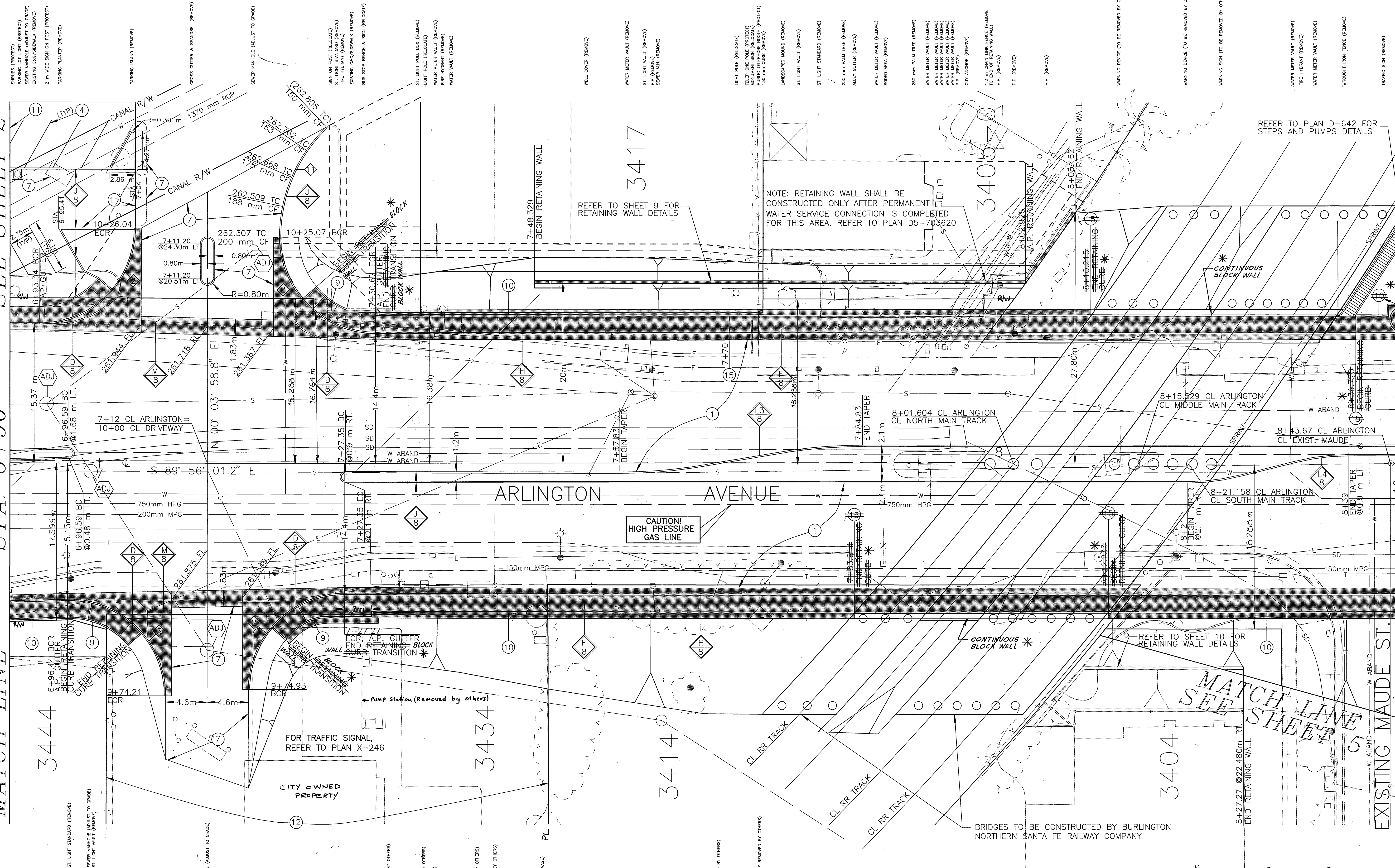
STA. 6+90

MATCH LINE

SEE SHEET 4

STA. 8+45

MATCH LINE



CONSTRUCTION NOTES

- 1 CONSTRUCT 150 mm ASPHALT CONCRETE OVER 480 mm CRUSHED AGGREGATE BASE. PAINT 100mm WHITE STRIPE.
- 4 CONSTRUCT 75 mm ASPHALT CONCRETE OVER 100 mm CRUSHED AGGREGATE BASE. TRANSITION RETAINING CURB FROM ZERO HEIGHT TO FULL HEIGHT AS REQUIRED IN THE FIELD.
- 9 CONSTRUCT 800 mm HIGH RETAINING WALL PER RETAINING CURB-DETAIL ON SHEET 12.
- 11 SLURRY SEAL PARKING LOT TO THE LIMITS.
- 12 DEMOLISH BUILDING AND GAS PUMPING ISLAND (PUMPS REMOVED) LOCATED AT 3434 ARLINGTON AVENUE AND CLEAR SITE.
- 15 CONSTRUCT RETAINING CURB GUTTER DRAIN PER DETAIL ON SHEET 12.

CURVE DATA					
Station	Angle	R (m)	L (m)	T (m)	
2	90° 00' 00"	10.67	16.76	10.67	
3	91° 34' 42"	10.67	17.05	10.97	
11	46° 22' 41"	16.84	13.63	7.21	



ENGINEER IN RESPONSIBLE CHARGE
 PHILIP L. HANNAWAY
 CIVIL
 R.C.E. No. 44747 Expires 3/31/2002
 DATE 5/5/98



MARK	REVISIONS	APPR.	DATE

CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT

APPROVED BY: R. M. Smith
 PUBLIC WORKS DIRECTOR

DATE: 5-7-98

ARLINGTON AVENUE
 UNDERPASS
 AT BNSF RAILROAD CROSSING

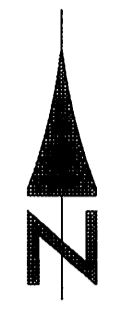
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ACCOUNT NUMBER
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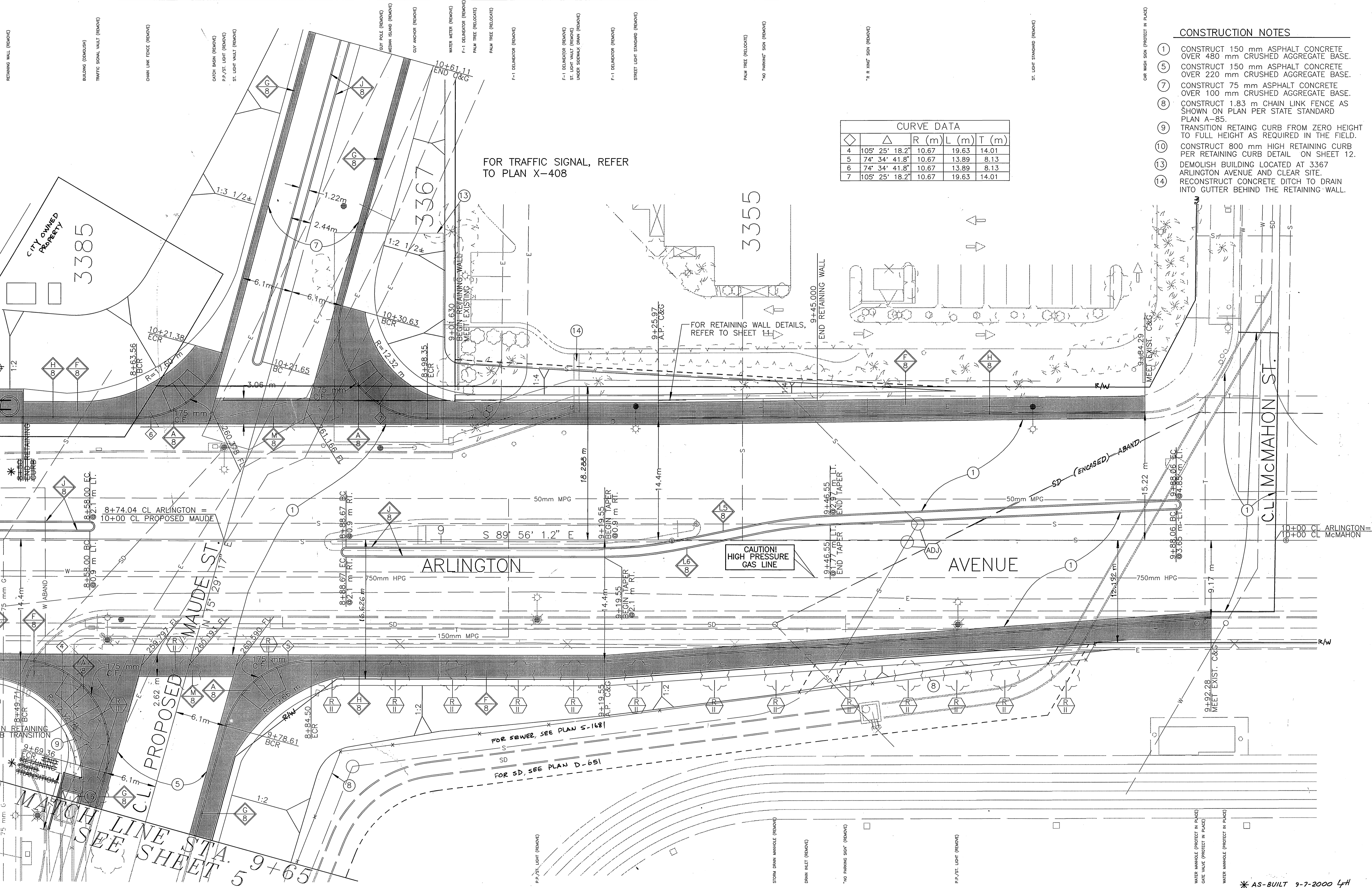
R-3425

SHEET 3 OF 12

FILE NO. :



MATCH LINE SEE SHEET 3
STA. 8+45
MATCH LINE SEE SHEET 5
STA. 9+65



CURVE DATA

Station	Δ	R (m)	L (m)	T (m)
4	105° 25' 18.2"	10.67	19.63	14.01
5	74° 34' 41.8"	10.67	13.89	8.13
6	74° 34' 41.8"	10.67	13.89	8.13
7	105° 25' 18.2"	10.67	19.63	14.01

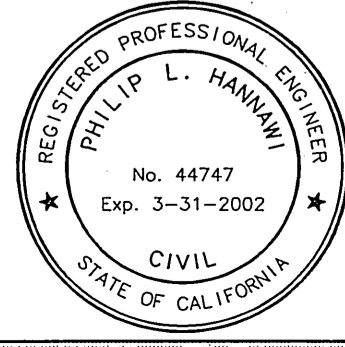
FOR TRAFFIC SIGNAL, REFER TO PLAN X-408

FOR RETAINING WALL DETAILS, REFER TO SHEET 11

- CONSTRUCTION NOTES
- CONSTRUCT 150 mm ASPHALT CONCRETE OVER 480 mm CRUSHED AGGREGATE BASE.
 - CONSTRUCT 150 mm ASPHALT CONCRETE OVER 220 mm CRUSHED AGGREGATE BASE.
 - CONSTRUCT 75 mm ASPHALT CONCRETE OVER 100 mm CRUSHED AGGREGATE BASE.
 - CONSTRUCT 1.83 m CHAIN LINK FENCE AS SHOWN ON PLAN PER STATE STANDARD PLAN A-85.
 - TRANSITION RETAINING CURB FROM ZERO HEIGHT TO FULL HEIGHT AS REQUIRED IN THE FIELD.
 - CONSTRUCT 800 mm HIGH RETAINING CURB PER RETAINING CURB DETAIL ON SHEET 12.
 - DEMOLISH BUILDING LOCATED AT 3367 ARLINGTON AVENUE AND CLEAR SITE.
 - RECONSTRUCT CONCRETE DITCH TO DRAIN INTO GUTTER BEHIND THE RETAINING WALL.

- TRAFFIC SIGNAL WALT (REMOVE)
- "STOP SIGN" (REMOVE)
- 2" CHAIN LINK FENCE (REMOVE)
- TRAFFIC SIGNAL WALT (REMOVE)
- STOP SIGN (REMOVE)
- P.P./ST. LIGHT (REMOVE)
- DIT POLE (REMOVE)
- TOTAL 18 PINE TREES ALONG ARLINGTON AND MAUDE (REMOVE)
- CATCH BASIN (REMOVE)

ENGINEER IN RESPONSIBLE CHARGE
 PHILIP L. HANNAWAY
 R.C.E. No. 44747 Expires 3/31/2002
 DATE 5/5/98



DESIGNED BY P.H. DRAWN BY P.H. CHECKED BY

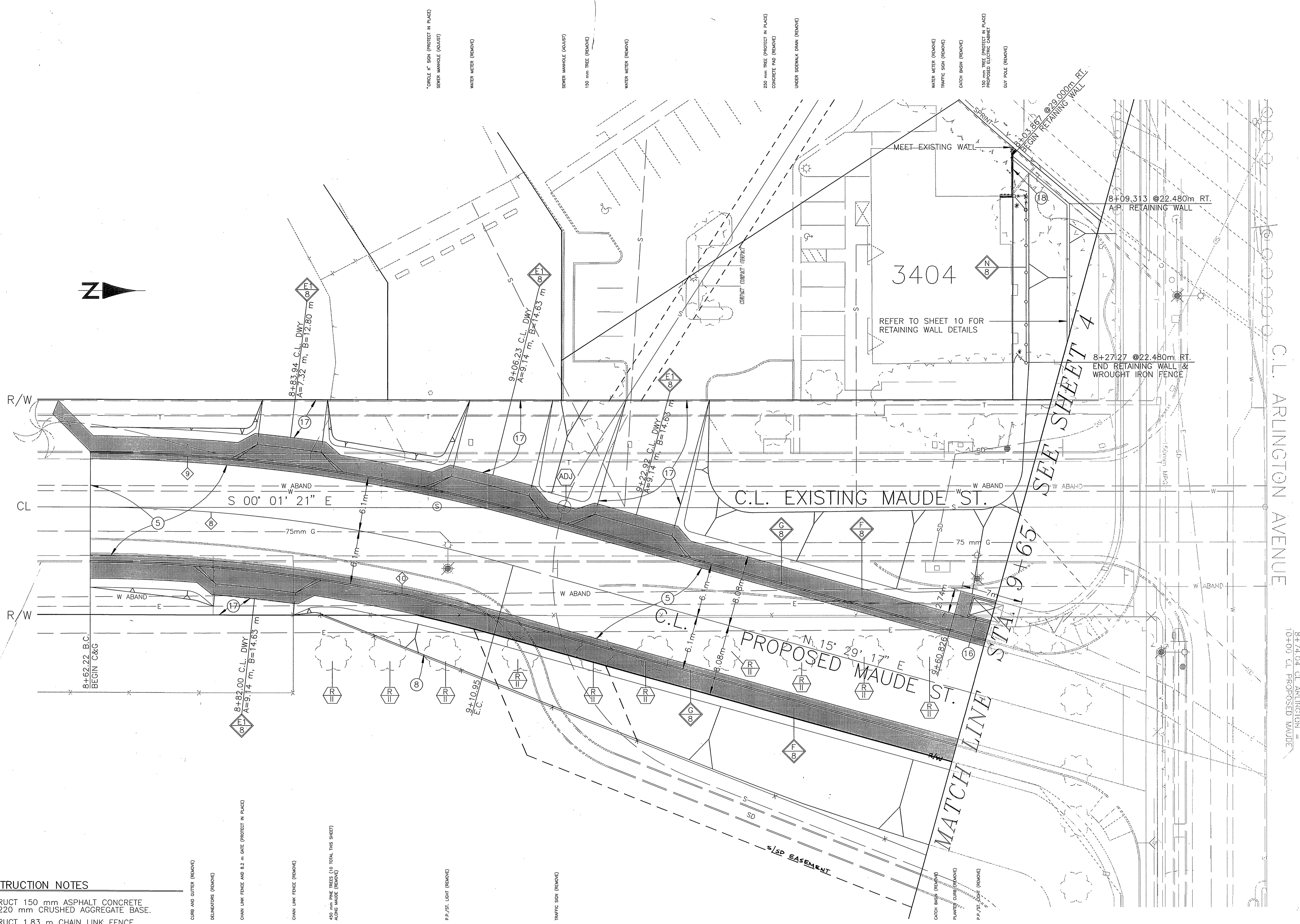
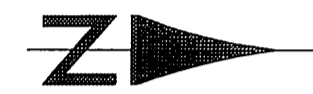
CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT

APPROVED BY: R. Mc...
 DEPUTY P.W. DIRECTOR
 DATE 5-7-98

ARLINGTON AVENUE UNDERPASS
 AT BNSF RAILROAD CROSSING

ACCOUNT NUMBER 432-541500-440302-30268
 R-3425
 SHEET 4 OF 12
 FILE NO.: R3425-04.DWG

INDEXED 9-7-2000 LHT



- 5 CONSTRUCT 150 mm ASPHALT CONCRETE OVER 220 mm CRUSHED AGGREGATE BASE.
- 8 CONSTRUCT 1.83 m CHAIN LINK FENCE AS SHOWN ON PLAN PER STATE STANDARD PLAN A-85.
- 16 GRADE A 7m X 2.74m FLAT AREA BEHIND THE PROPOSED SIDEWALK AT THE LOCATION OF THE PROPOSED ELECTRIC CABINET AS SHOWN ON PLAN.
- 17 CONSTRUCT 65 mm ASPHALT CONCRETE OVER COMPACTED NATIVE SOIL.
- 18 CONSTRUCT 1.83m HIGH BLOCK WALL TO MATCH EXISTING BLOCK WALL. REPLACE DAMAGED PLANTING.

CURB AND GUTTER (REMOVE)
 DELIMITATORS (REMOVE)
 CHAIN LINK FENCE AND 0.2 m GATE (PROTECT IN PLACE)
 CHAIN LINK FENCE (REMOVE)
 400 mm PINE TREES (10 TOTAL THIS SHEET) ALONG MAUDE (REMOVE)
 P.P./ST. LIGHT (REMOVE)
 TRAFFIC SIGN (REMOVE)

CURVE DATA					
Station	Δ	R (m)	L (m)	T (m)	
8	15° 30' 44.8"	180.00	48.73	24.52	
9	15° 30' 44.8"	186.10	50.39	25.35	
10	15° 30' 44.8"	173.90	47.08	23.69	



ENGINEER IN RESPONSIBLE CHARGE
 PHILIP L. HANNAWAY
 R.C.E. No. 44747 Expires 3/31/2002
 DATE 5/5/98

MARK	REVISIONS	APPR.	DATE

DESIGNED BY P.H. DRAWN BY P.H. CHECKED BY

CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT

APPROVED BY: PHILIP L. HANNAWAY
 DEPUTY P.W. DIRECTOR

APPROVED BY: R. M. GRANT
 PUBLIC WORKS DIRECTOR

DATE 5-7-98

ARLINGTON AVENUE UNDERPASS
 AT BNSF RAILROAD CROSSING

ACCOUNT NUMBER 432-541500-440302-30268
 R-3425
 SHEET 5 OF 12
 FILE NO.: R3425-05.DWG

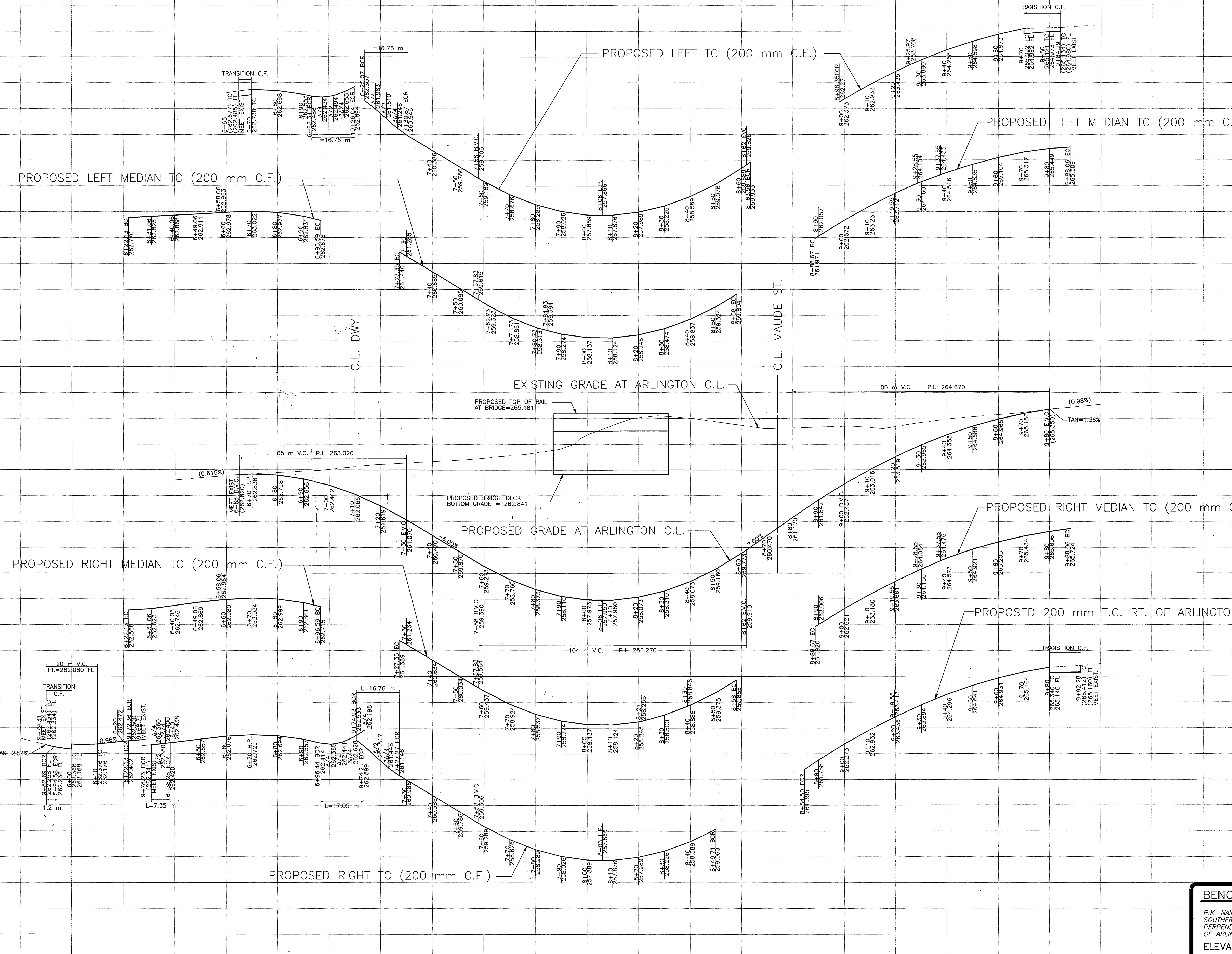
HORIZONTAL SCALE: 1:200

* AS-BUILT 9-7-2000 fh
 * AS BUILT 7/15/99

INDEXED 9-7-2000 fh

265 LT TC
 260 LT TC
 255 LT TC
 265 CL
 260 CL
 265 RT TC
 260 RT TC
 255 RT TC

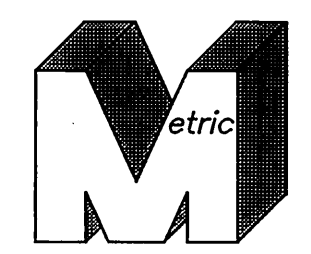
265 LT MED TC
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 255 LT MED TC
 265 RT MED TC
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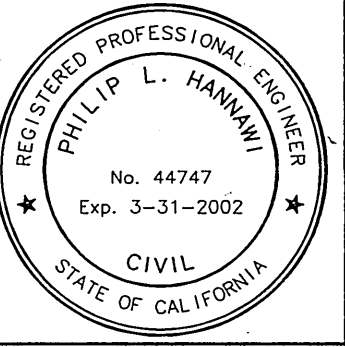
PROFILES FOR PROPOSED ARLINGTON AVENUE

BENCHMARK
 P.K. NAIL AND CITY ENGINEER TAG IN THE SOUTHERLY CURB OF ARLINGTON AVENUE PERPENDICULAR TO THE CENTERLINE INTERSECTION OF ARLINGTON AVENUE AND INDIANA AVENUE
 ELEVATION 262.352 METRIC (860.734 IMP.)

* AS-BUILT 9-7-2000 4H



ENGINEER IN RESPONSIBLE CHARGE
 PHILIP L. HANNAWI
 R.C.E. No. 44747 Expires 3/31/2002
 DATE 5/5/98



MARK	REVISIONS	APPR.	DATE

CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT
 APPROVED BY: R.M. Krath
 DEPUTY P.W. DIRECTOR
 DATE: 5-7-98

ARLINGTON AVENUE UNDERPASS
 AT BNSF RAILROAD CROSSING
 HORIZONTAL SCALE: 1:750 VERTICAL SCALE: 1:75

ACCOUNT NUMBER 432-541500-440302-30268
 R-3425
 SHEET 6 OF 12
 FILE NO.: R3425-06

INDEXED 9-7-2000 4H

265 LT

260 LT

255 LT

265 CL

260 CL

265 RT

260 RT

255 RT

PROPOSED 150 mm TC LT OF MAUDE C.L.

PROPOSED 150 mm TC LT OF MAUDE C.L.

PROPOSED GRADE AT PROPOSED MAUDE CL

EXISTING GRADE AT PROPOSED MAUDE CL

PROPOSED 150 mm TC RT. OF MAUDE C.L.

PROPOSED 150 mm TC RT. OF MAUDE C.L.

PROFILES FOR PROPOSED MAUDE STREET

BENCHMARK
 P.K. NAIL AND CITY ENGINEER TAG IN THE
 SOUTHERLY CURB OF ARLINGTON AVENUE
 PERPENDICULAR TO THE CENTERLINE INTERSECTION
 OF ARLINGTON AVENUE AND INDIANA AVENUE
 ELEVATION 262.352 METRIC (860.734 IMP.)

8

9

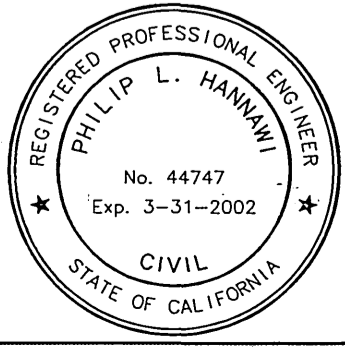
10

11

* AS-BUILT 9-7-2000 LHH



ENGINEER IN RESPONSIBLE CHARGE
Philip L. Hannawi
 PHILIP L. HANNAWI
 R.C.E. No. 44747 Expires 3/31/2002
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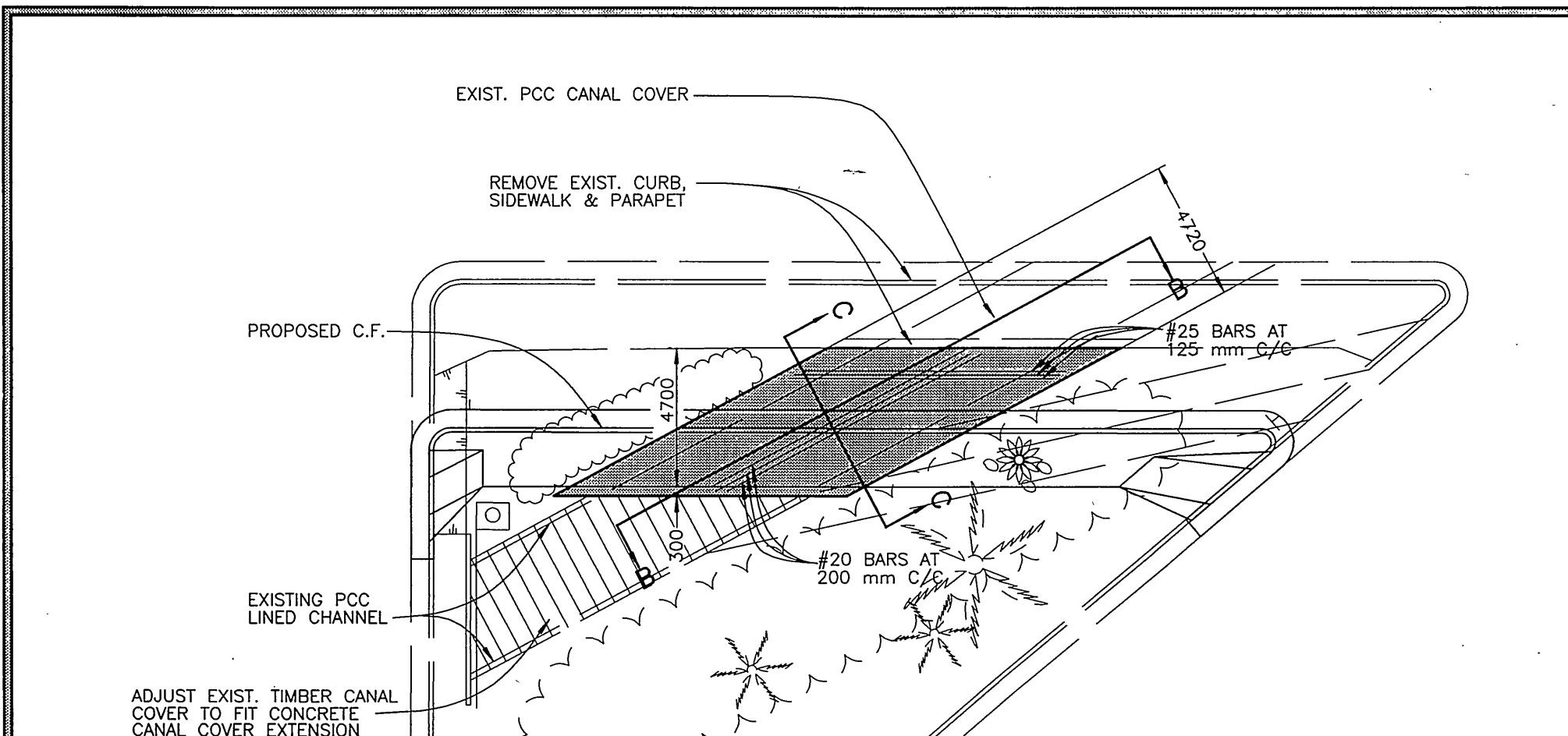
Change in grade to avoid utility conflict	DA	10/10/98
REVISIONS	APPR	DATE
DESIGNED BY P.H.	DRAWN BY P.H.	CHECKED BY

CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT			
APPROVED BY	BY	DATE	APPROVED BY
DEPUTY P.W. DIRECTOR	<i>[Signature]</i>	5/7/98	R. McHath
PRINCIPAL ENGINEER	<i>[Signature]</i>		PUBLIC WORKS DIRECTOR
STREET DIVISION			
TITLE DIVISION			
SURVEYOR			
DATE 5-7-98			

ARLINGTON AVENUE UNDERPASS
 AT BNSF RAILROAD CROSSING
 HORIZONTAL SCALE: 1:750 VERTICAL SCALE: 1:75

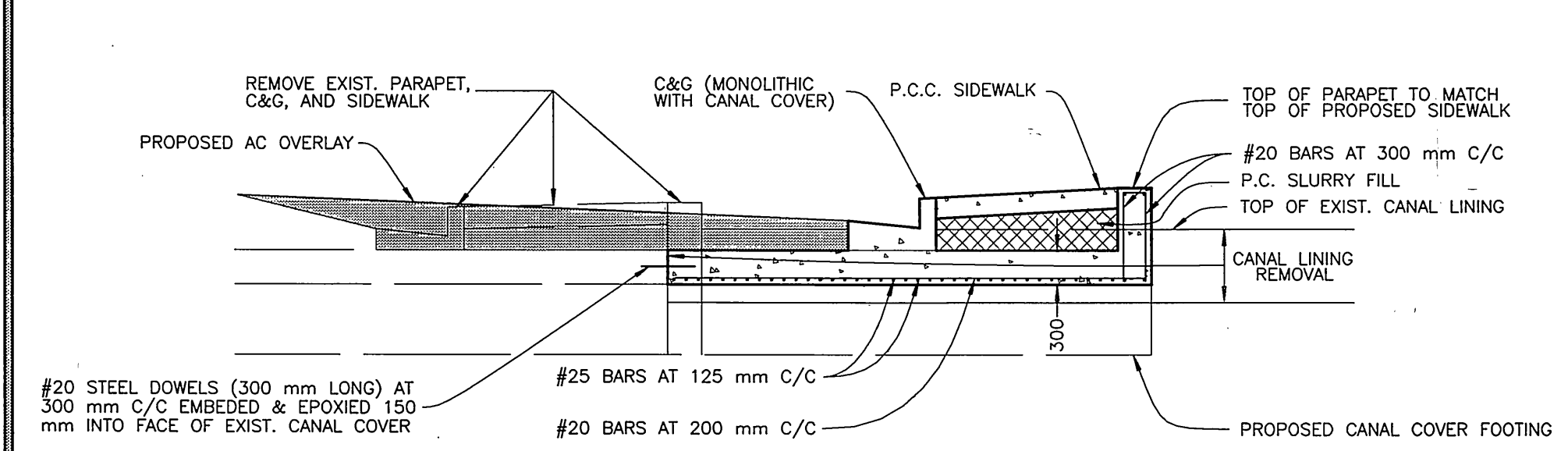
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R-3425
 SHEET 7 OF 12
 FILE NO.: R3425-07

INDEXED 9-7-2000 LHH

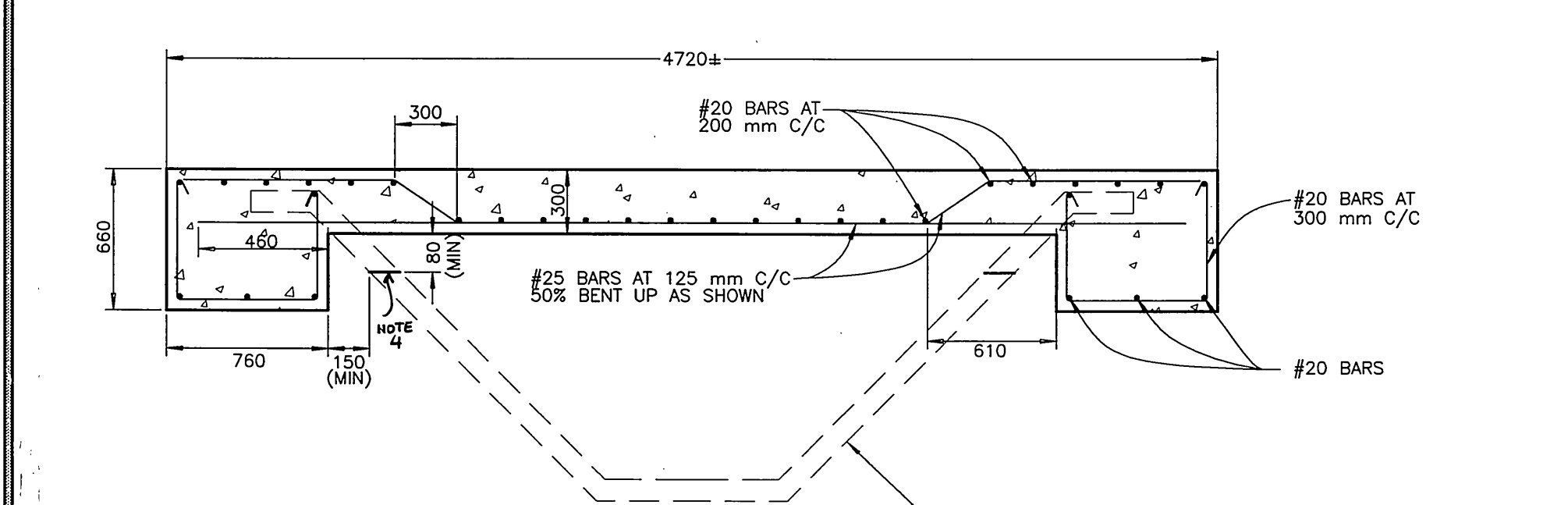


PLAN CANAL COVER

NOTES FOR DETAIL K
1. CONCRETE COVER SHALL BE 63 mm THICK.
2. CHAMFER 20 mm AT ALL EXPOSED CORNERS.
3. CONCRETE SHALL BE CLASS 330-C-23.
4. REMOVE CONCRETE CANAL LINING WHERE NECESSARY TO PROVIDE CLEARANCE AS SHOWN.

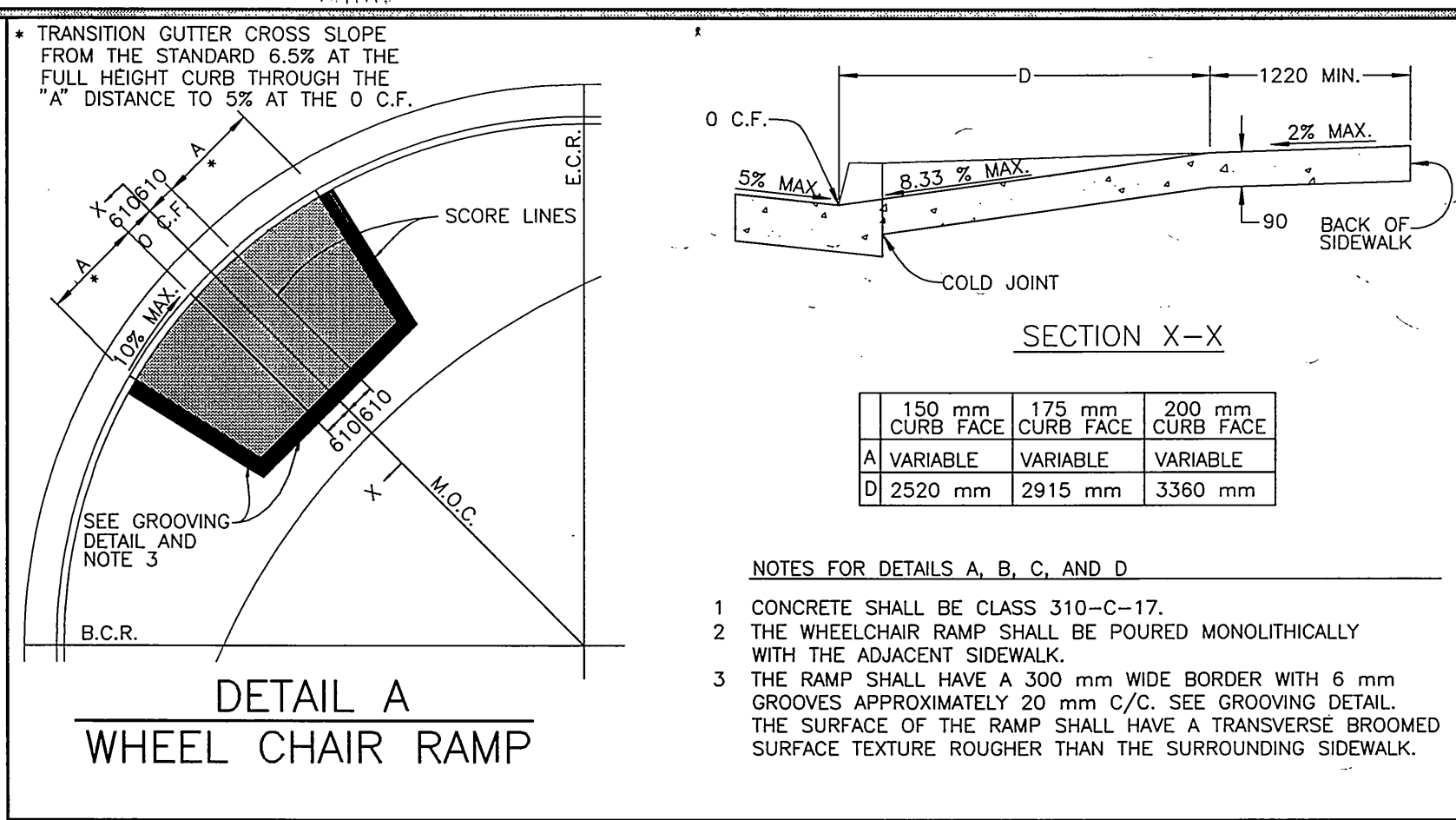


SECTION B-B CANAL COVER (REFERENCE: R-2462, SHEET 2)



SECTION C-C CANAL COVER (REFERENCE: R-2462, SHEET 2)

DETAIL K CANAL COVER



DETAIL A WHEEL CHAIR RAMP

REVERSE TAPER

STATION	CL	OFFSET
L1	6+31.06	3.93 RT.
	6+33.06	3.88 RT.
	6+35.06	3.71 RT.
	6+37.06	3.44 RT.
	6+39.06	3.06 RT.
	6+40.06	2.82 RT.
	6+49.06	0.61 RT.
	6+50.06	0.38 RT.
	6+52.06	0.02 LT.
	6+54.06	0.32 LT.
	6+56.06	0.52 LT.
	6+58.06	0.62 LT.

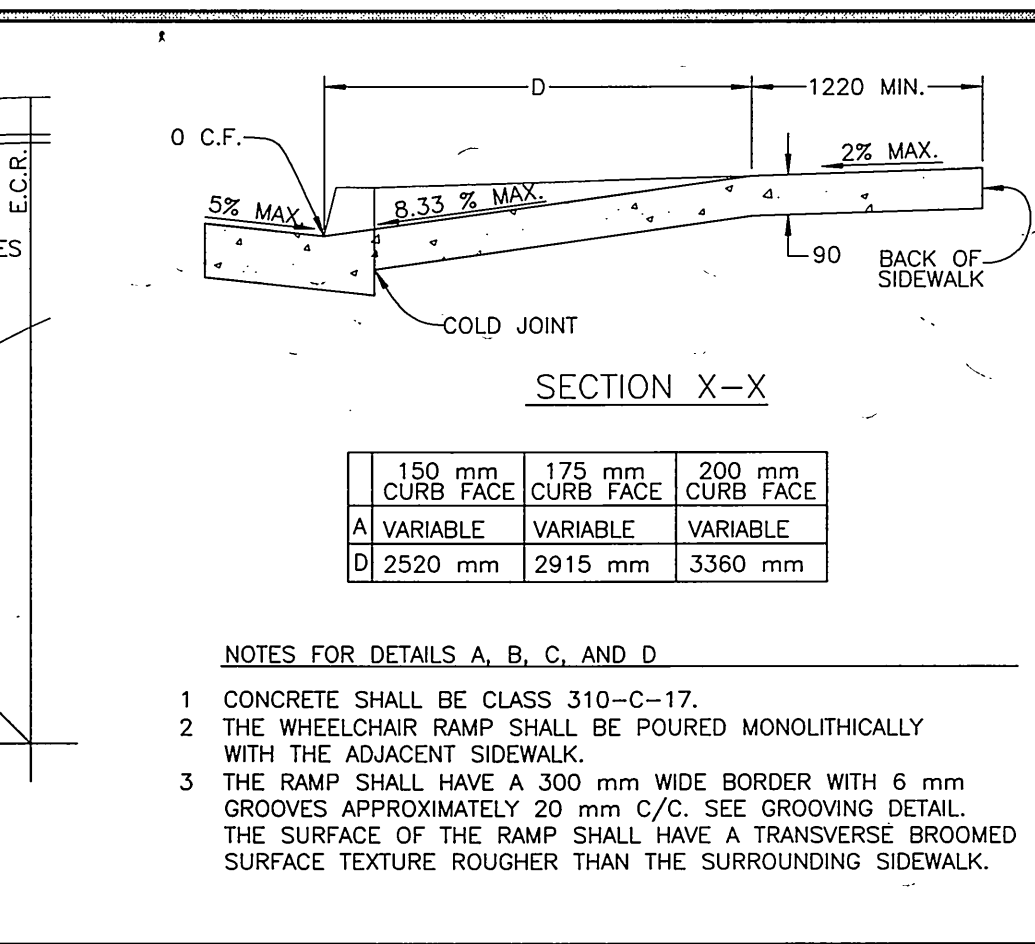
REVERSE TAPER

STATION	CL	OFFSET
L2	6+31.06	4.53 RT.
	6+33.06	4.48 RT.
	6+35.06	4.34 RT.
	6+37.06	4.10 RT.
	6+39.06	3.77 RT.
	6+40.06	3.57 RT.
	6+49.06	1.66 RT.
	6+50.06	1.46 RT.
	6+52.06	1.11 RT.
	6+54.06	0.85 RT.
	6+56.06	0.68 RT.
	6+58.06	0.58 RT.

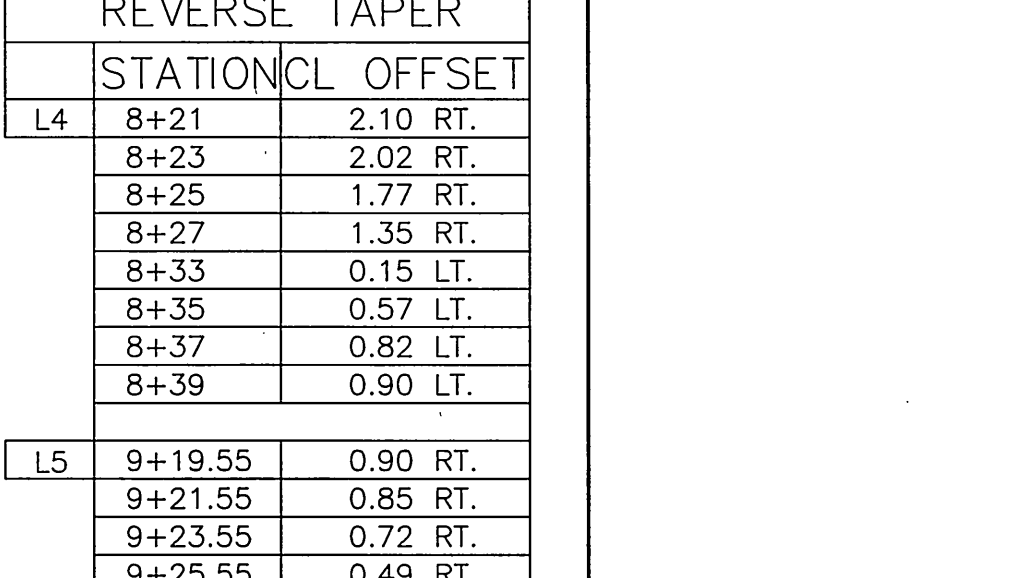
REVERSE TAPER

STATION	CL	OFFSET
L3	7+53.73	0.90 RT.
	7+55.73	0.86 RT.
	7+57.73	0.75 RT.
	7+59.73	0.57 RT.
	7+61.73	0.31 RT.
	7+62.73	0.15 RT.
	7+71.73	1.35 LT.
	7+72.73	1.51 LT.
	7+74.73	1.77 LT.
	7+76.73	1.95 LT.
	7+78.73	2.06 LT.
	7+80.73	2.10 LT.

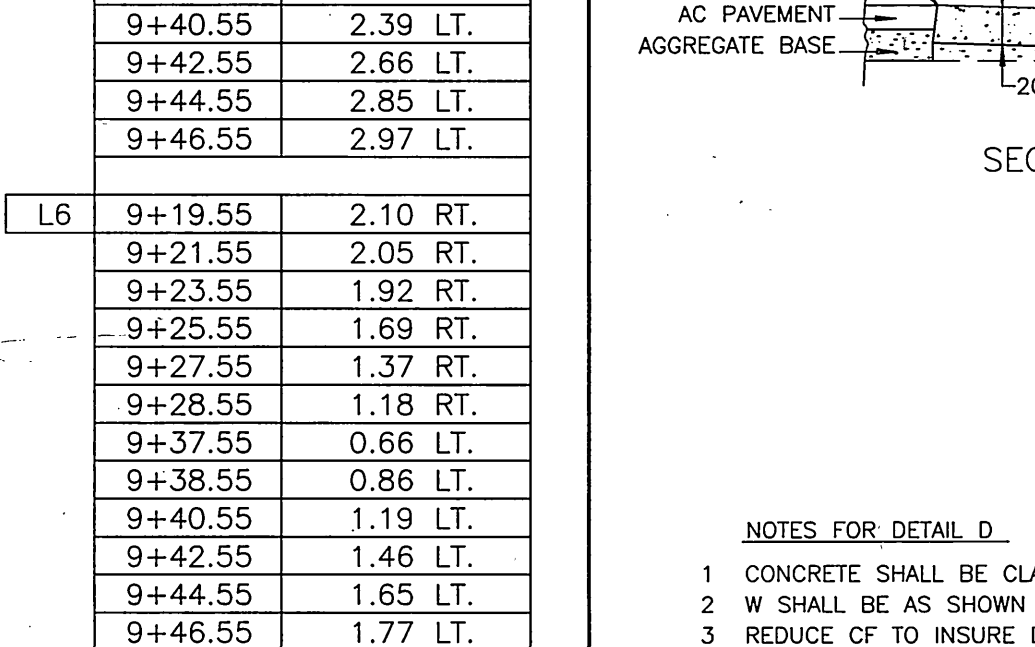
DETAIL L REVERSE TAPER



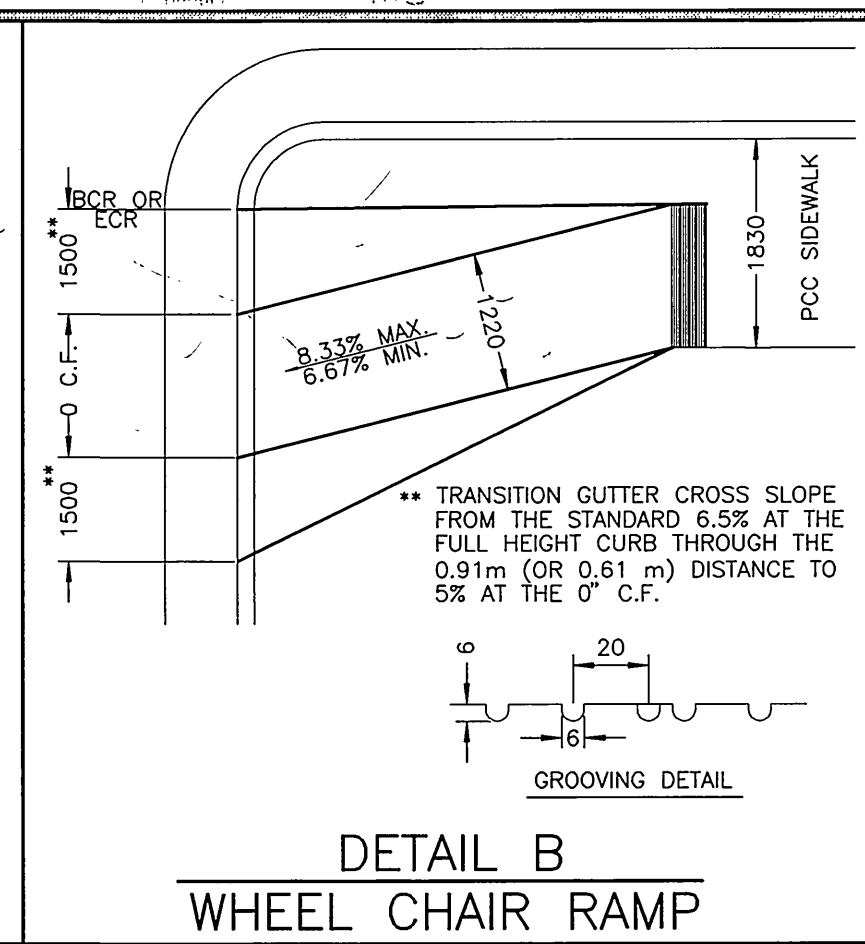
DETAIL B WHEEL CHAIR RAMP



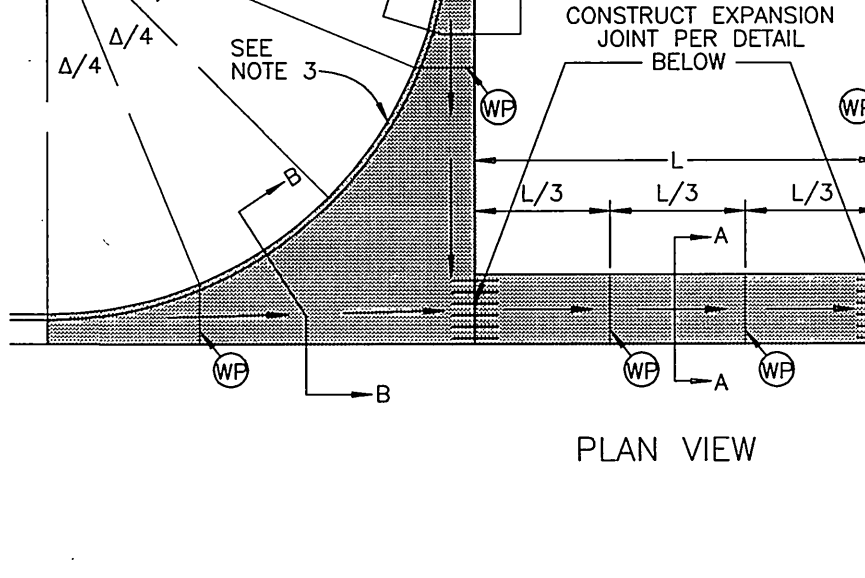
DETAIL C WHEEL CHAIR RAMP



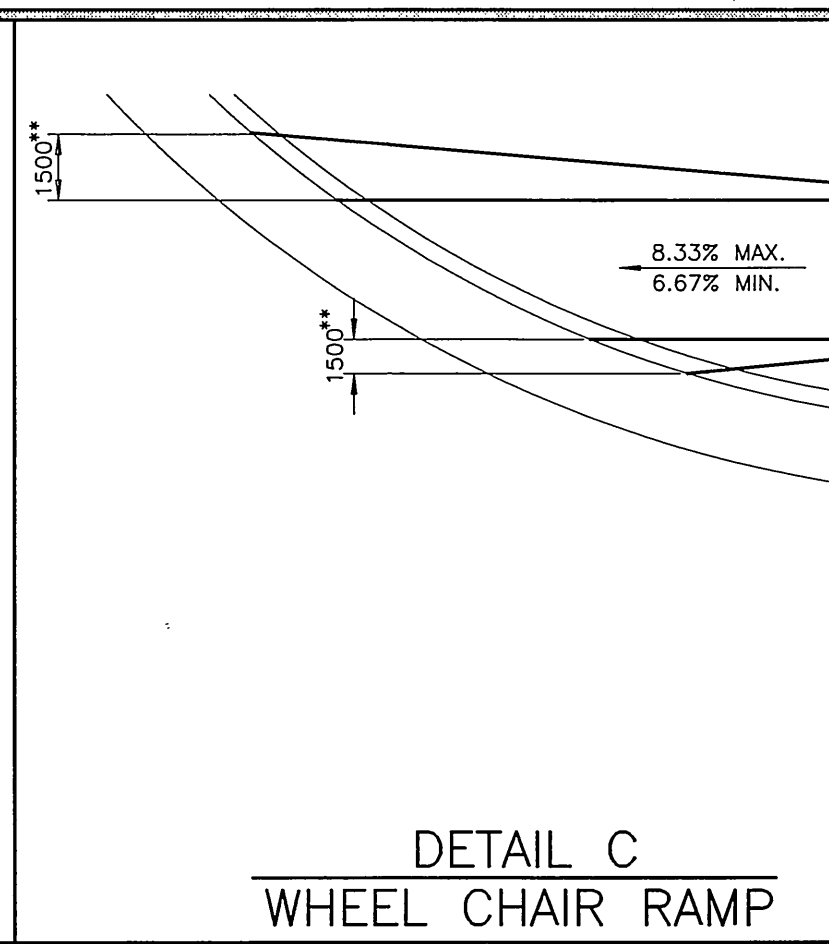
DETAIL D WHEEL CHAIR RAMP



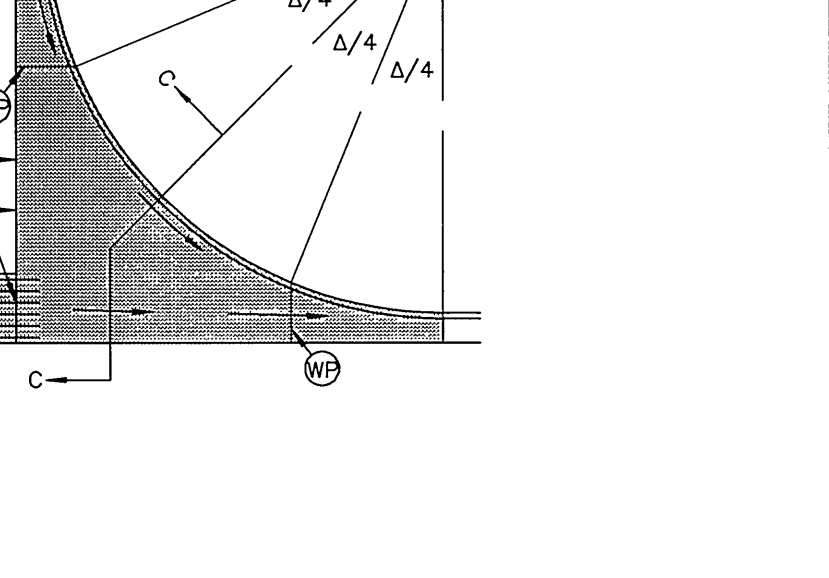
DETAIL E1 DRIVEWAY APPROACH



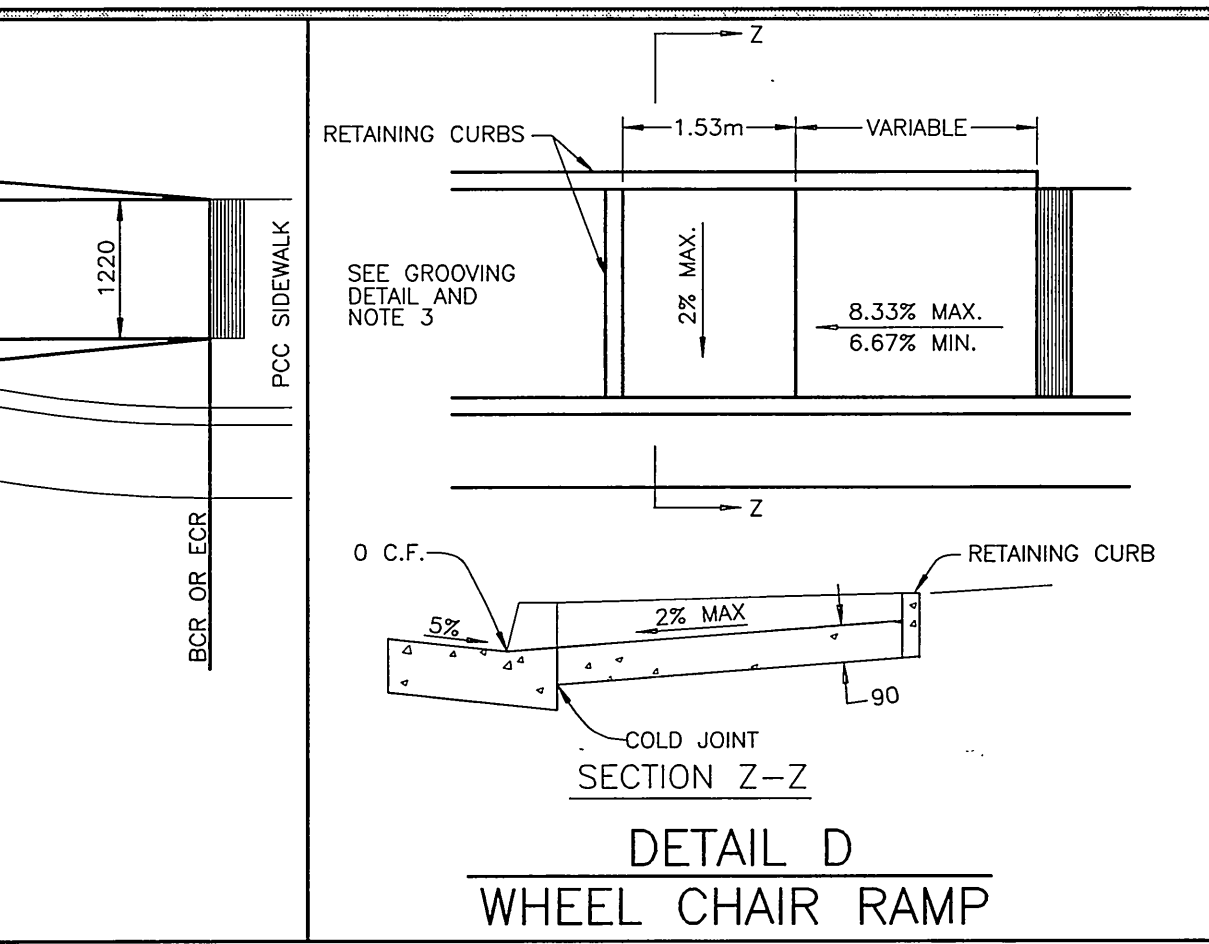
DETAIL E2 DRIVEWAY APPROACH



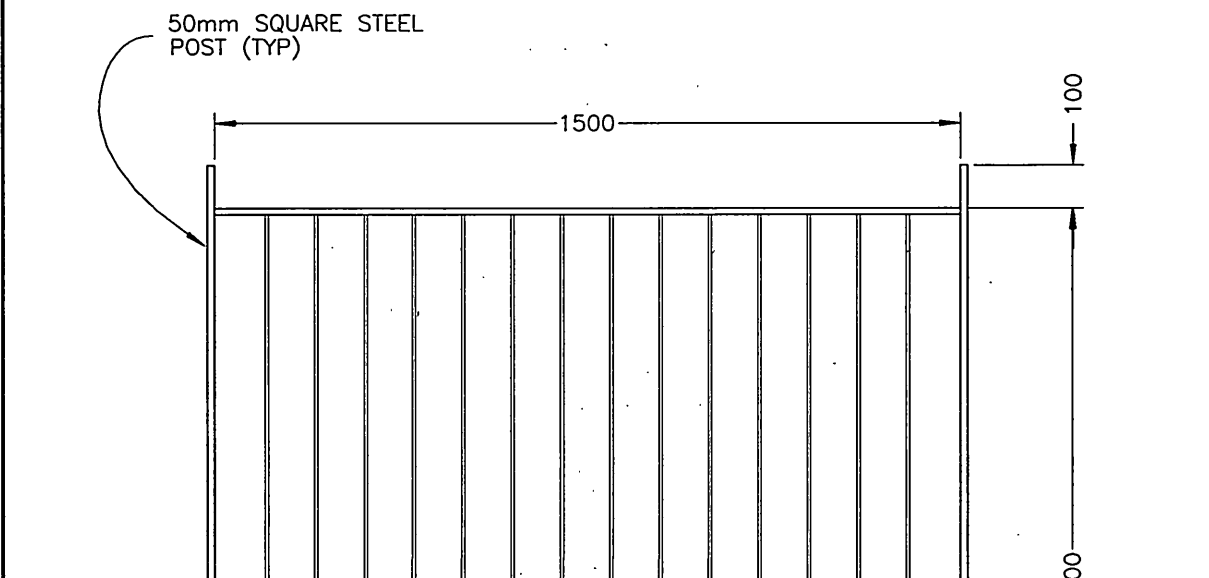
DETAIL M CROSS GUTTERS



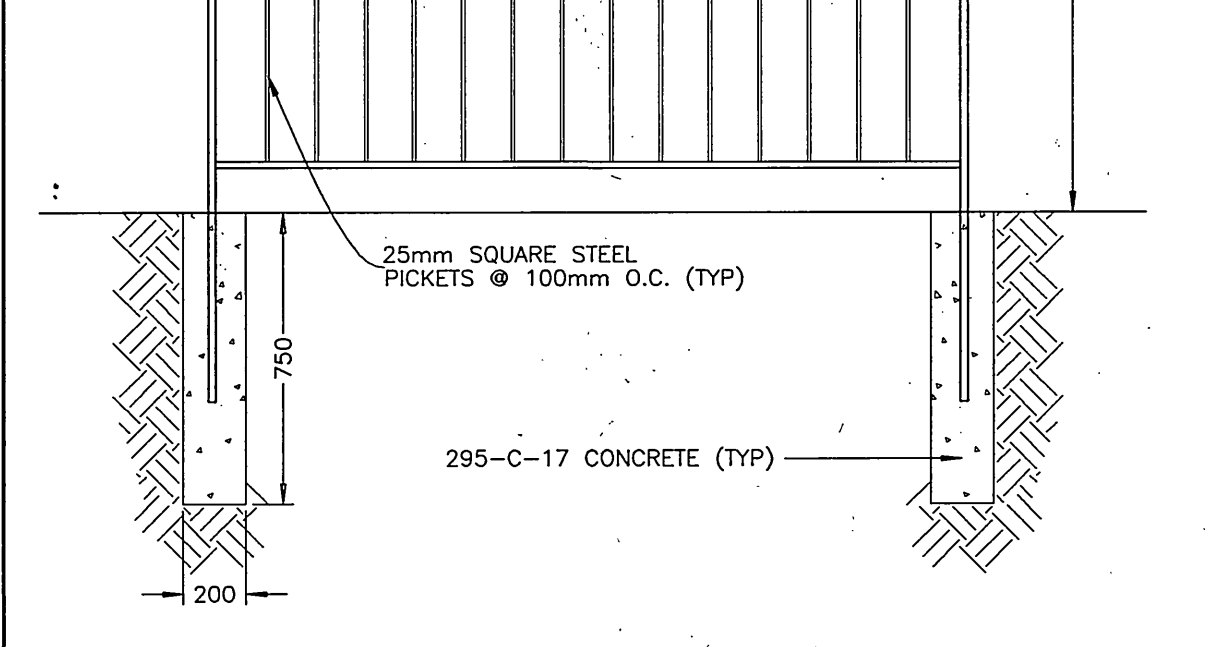
DETAIL N WROUGHT IRON FENCE DETAIL



DETAIL K CANAL COVER

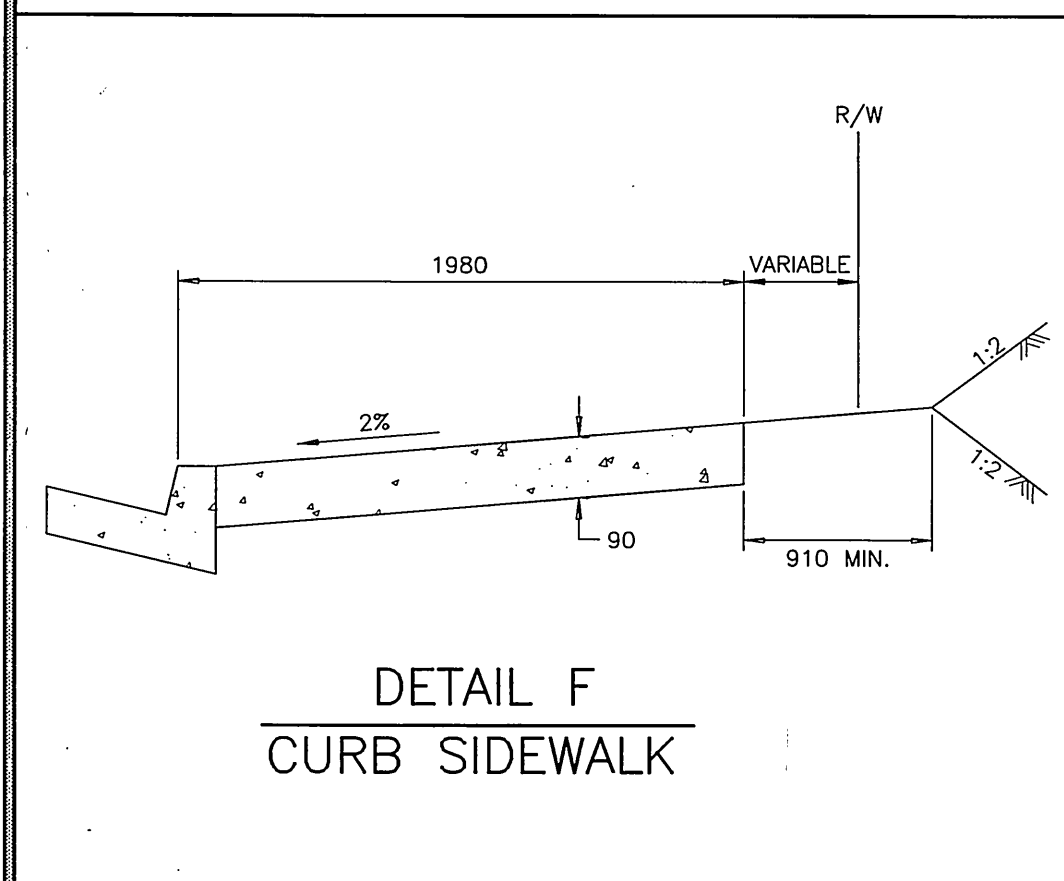


DETAIL G CURB SIDEWALK

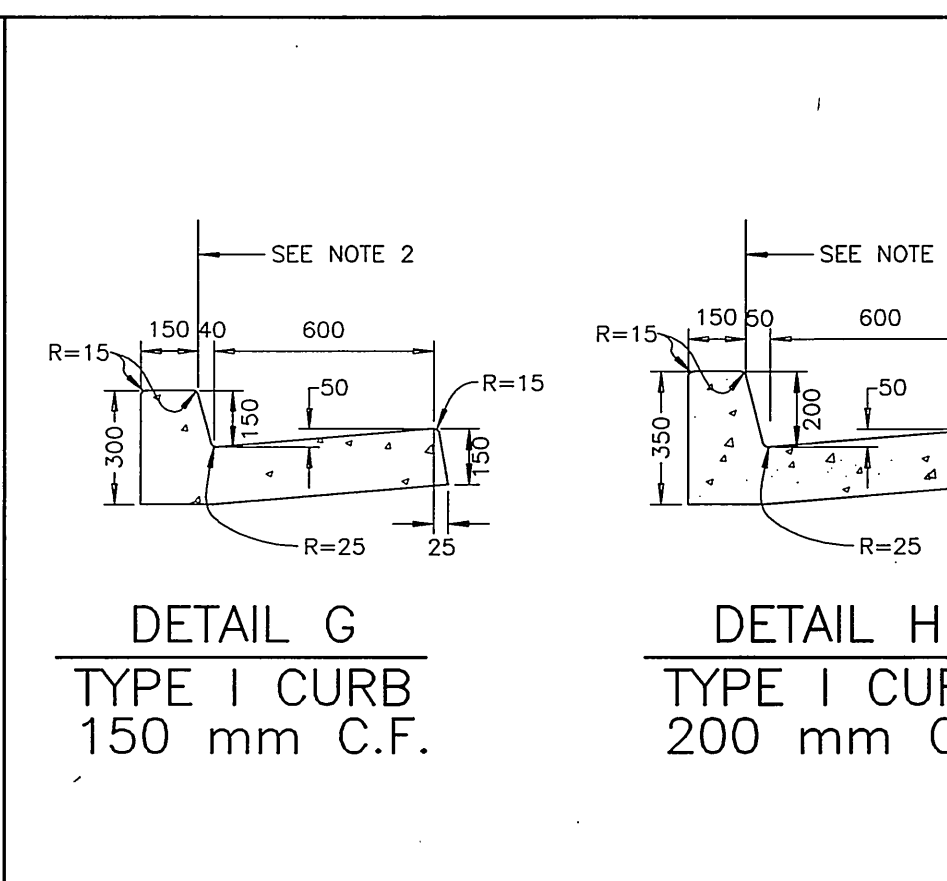


DETAIL H CURB SIDEWALK

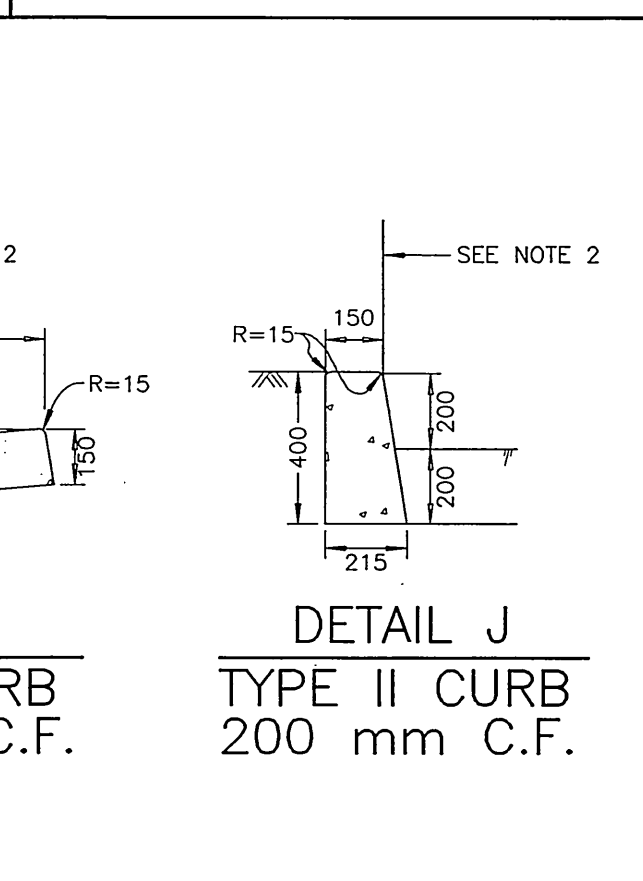
DETAIL J CURB SIDEWALK



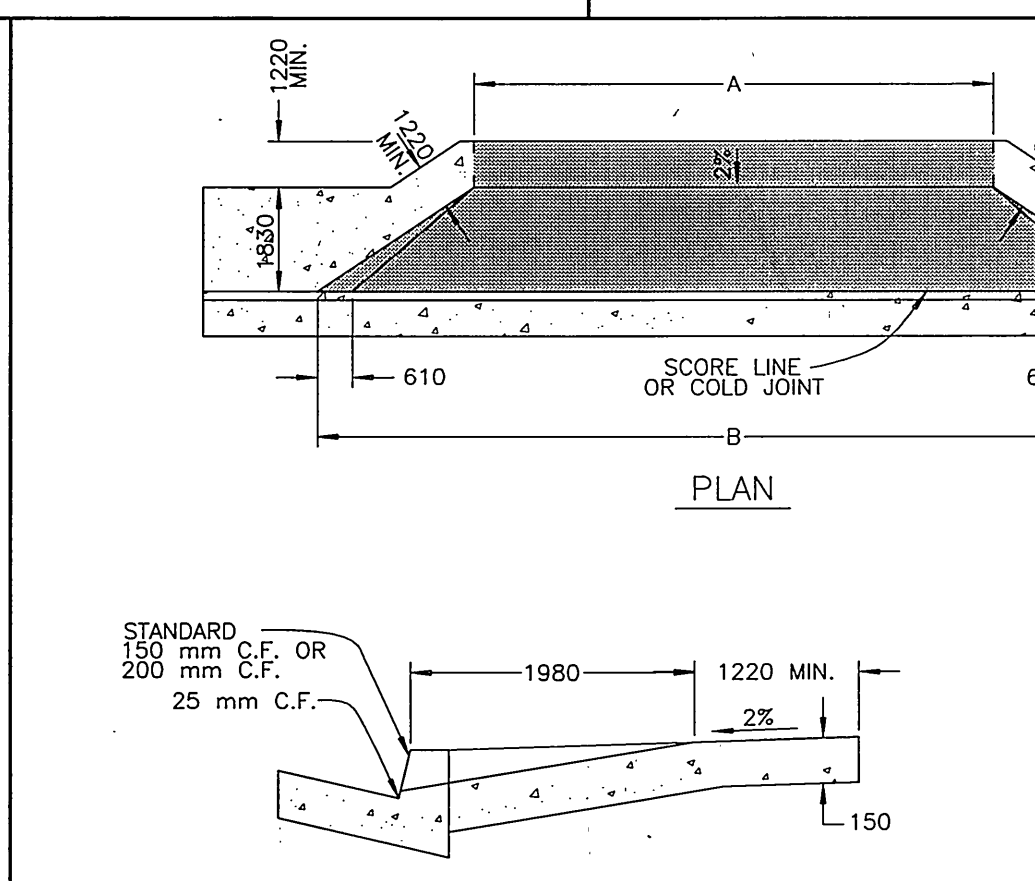
DETAIL F CURB SIDEWALK



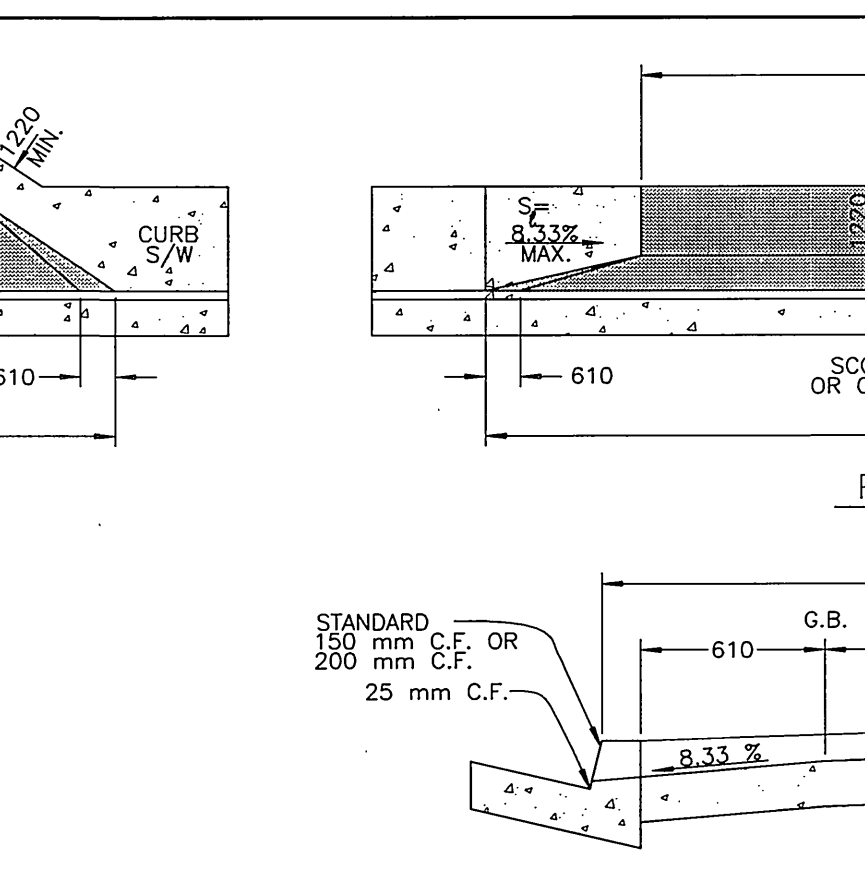
DETAIL G CURB SIDEWALK



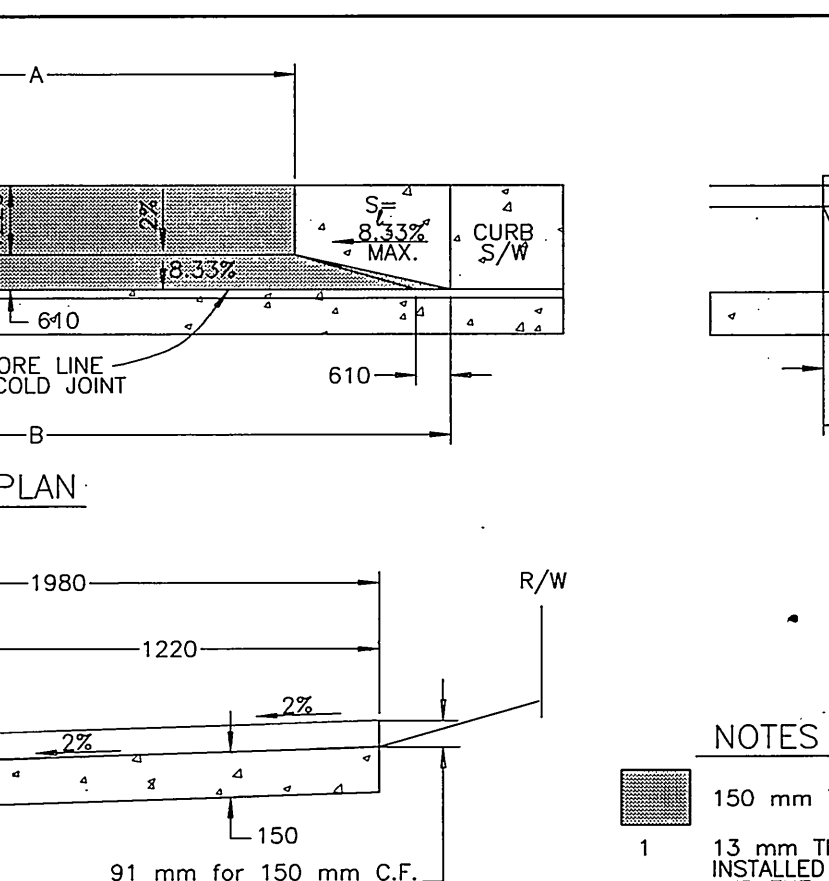
DETAIL H CURB SIDEWALK



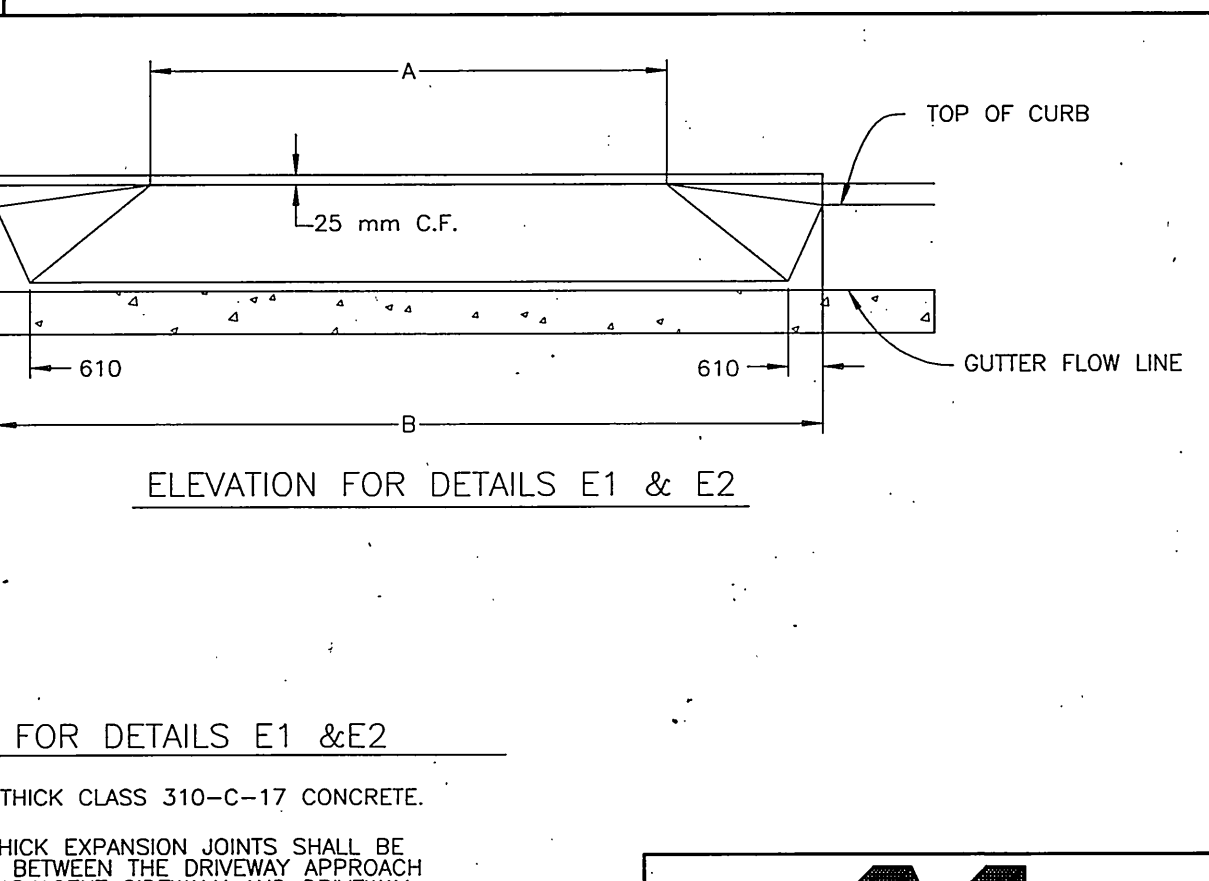
DETAIL I CURB SIDEWALK



DETAIL J CURB SIDEWALK



DETAIL K CURB SIDEWALK



DETAIL L CURB SIDEWALK

NOTES FOR DETAIL F
1. CONCRETE SHALL BE CLASS 310-C-17.
2. 13 mm THICK TRANSVERSE EXPANSION JOINTS SHALL BE INSTALLED AT ALL CURB RETURNS. 6 mm THICK EXPANSION JOINTS SHALL BE INSTALLED BETWEEN THE SIDEWALK AND THE BACK OF CURB AT CURB RETURNS AND AROUND DRAINAGE STRUCTURES, POLES, AND PIPES WHICH ARE IN THE SIDEWALK. CURB SIDEWALK SHALL HAVE THE EXPANSION JOINTS AT THE SAME LOCATION AS THOSE IN THE CURB.
3. WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT 3.3 m MAXIMUM INTERVALS THROUGHOUT THE LENGTH OF THE SIDEWALK AND AT LOCATIONS WHERE THE SIDEWALK SECTION IS INTERRUPTED BY TREWELLS, UTILITY VAULTS, BLOCKOUTS FOR STREET LIGHTS AND SIMILAR OBJECTS.
4. WHEN A STREET LIGHT STANDARD IS TO BE PLACED IN THE SIDEWALK, BLOCK OUT 0.91 m SQUARE AROUND THE STANDARD AND BRING THE STREET LIGHT FOUNDATION TO GRADE AFTER THE STANDARD IS PLUMB.
5. 1.22 m WIDTH OF SIDEWALK IS THE MINIMUM WIDTH BETWEEN EDGE OF SIDEWALK AND ANY OBJECTS THAT INTERFERE WITH PEDESTRIAN R/W (TREE WELLS, FIRE HYDRANTS, ETC.).

NOTES FOR DETAILS G, H AND J
1. CONCRETE SHALL BE CLASS 310-C-17.
2. CURB LOCATION DIMENSIONS ON PLAN SHALL BE TO THIS POINT.
3. 13 mm THICK TRANSVERSE EXPANSION JOINTS SHALL BE INSTALLED AT ALL CURB RETURNS.
4. WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT 3.3 m MAXIMUM INTERVALS THROUGHOUT THE LENGTH OF THE CURB, AT QUARTER POINTS OF CURB RETURNS, AND AT ANY POINT WHERE THE CURB SECTION IS INTERRUPTED BY A DRAINAGE OUTLET THROUGH THE CURB.
5. WHEN PAVEMENT STRUCTURAL SECTION THICKNESS EXCEEDS 355 mm, THE BASE SHALL BE CONTINUED UNDER CURB AND GUTTER.
6. WHERE GRADE IS EQUAL TO OR GREATER THAN 0.4%, CURB AND GUTTER SHALL BE STAKED WITH 910 mm OFFSETS AT 10 m INTERVALS. WHERE GRADE IS LESS THAN 0.4%, CURB AND GUTTER SHALL BE STAKED WITH 910 mm OFFSETS AT 5 m INTERVALS AND TWO ROWS OF #10 REBARS SHALL BE PLACED IN GUTTER WITH 20 mm DOWEL PINS AT ALL EXPANSION JOINTS.

NOTES FOR DETAILS K, L, M, N
1. CONCRETE SHALL BE CLASS 310-C-17.
2. THE WHEELCHAIR RAMP SHALL BE POURED MONOLITHICALLY WITH THE ADJACENT SIDEWALK.
3. THE RAMP SHALL HAVE A 300 mm WIDE BORDER WITH 6 mm GROOVES APPROXIMATELY 20 mm C/C. SEE GROOVING DETAIL. THE SURFACE OF THE RAMP SHALL HAVE A TRANSVERSE BROOMED SURFACE TEXTURE ROUGHER THAN THE SURROUNDING SIDEWALK.

NOTES FOR DETAILS E1 & E2
1. 150 mm THICK CLASS 310-C-17 CONCRETE.
2. 13 mm THICK EXPANSION JOINTS SHALL BE INSTALLED BETWEEN THE DRIVEWAY APPROACH AND THE ADJACENT SIDEWALK AND DRIVEWAY.
3. A WEAKENED PLANE JOINT SHALL BE CONSTRUCTED THROUGH THE CENTER OF THE DRIVEWAY APPROACH WHEN 'A' EXCEEDS 4.57 m.

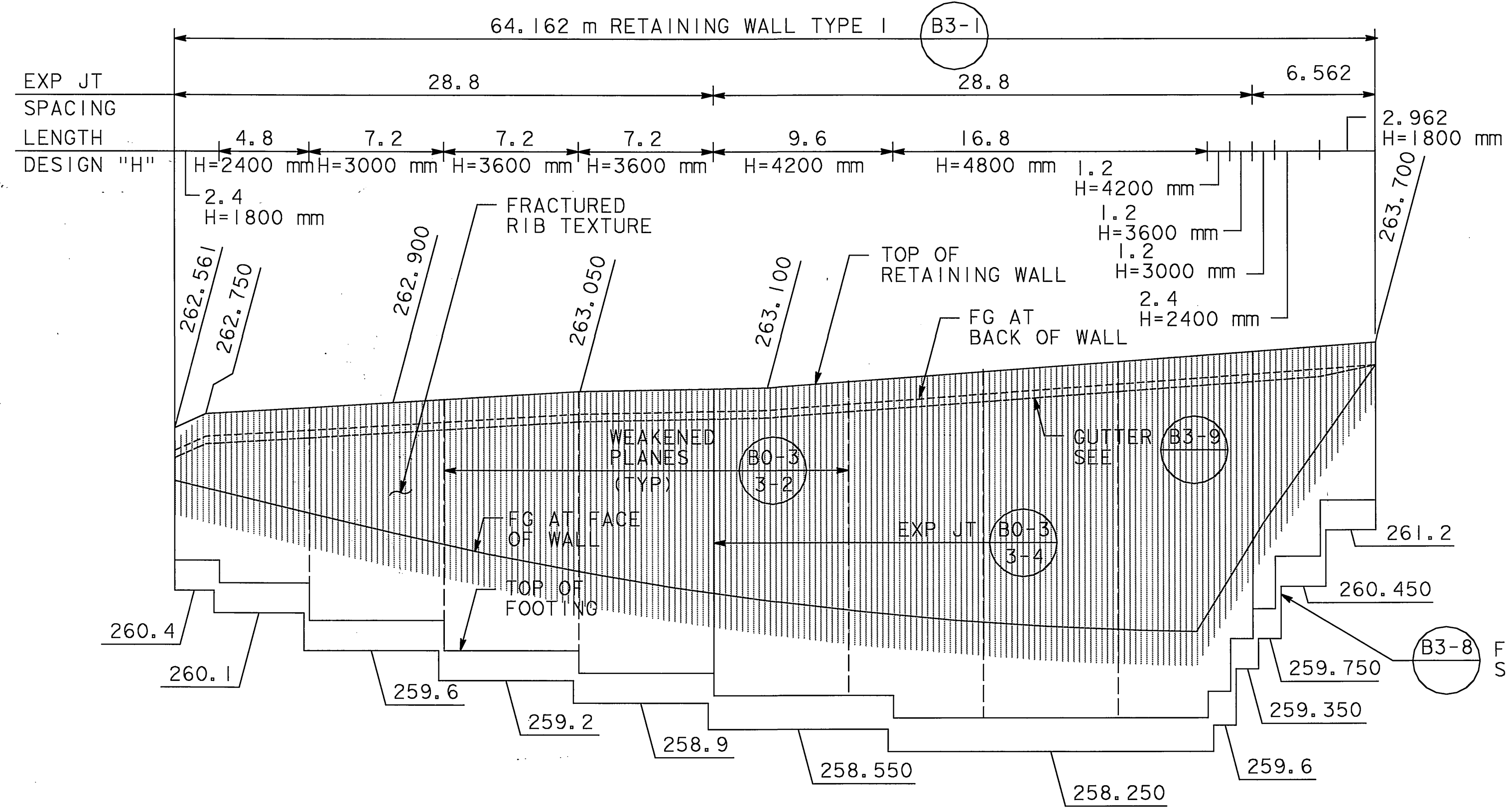
ENGINEER IN RESPONSIBLE CHARGE
PHILIP L. HANNAWI
R.C.E. No. 44747 Expires 3/31/2002
DATE 5/5/98

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT
APPROVED BY: R. Mc. Death
DATE: 5-7-98

ARLINGTON AVENUE UNDERPASS
AT BNSF RAILROAD CROSSING
NOT TO SCALE UNLESS NOTED

ACCOUNT NUMBER: 432-541500-440302-30268
PROJECT: R-3425
SHEET: 8 OF 12
DATE: 5-7-98

INDEXED 9-7-2000 4th

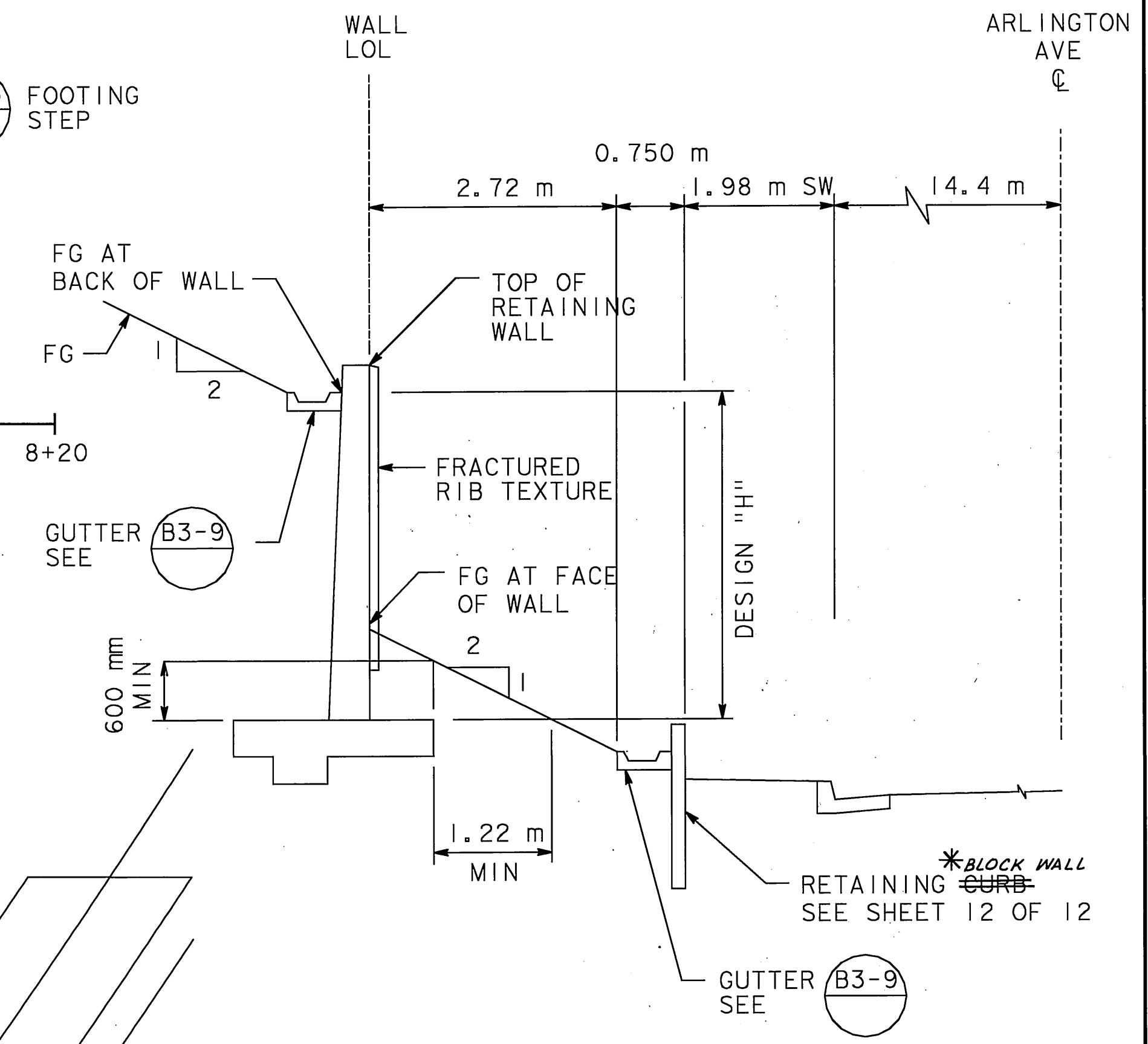


DATUM ELEVATION = 256

7+20 7+40 7+60 7+80 8+00 8+20

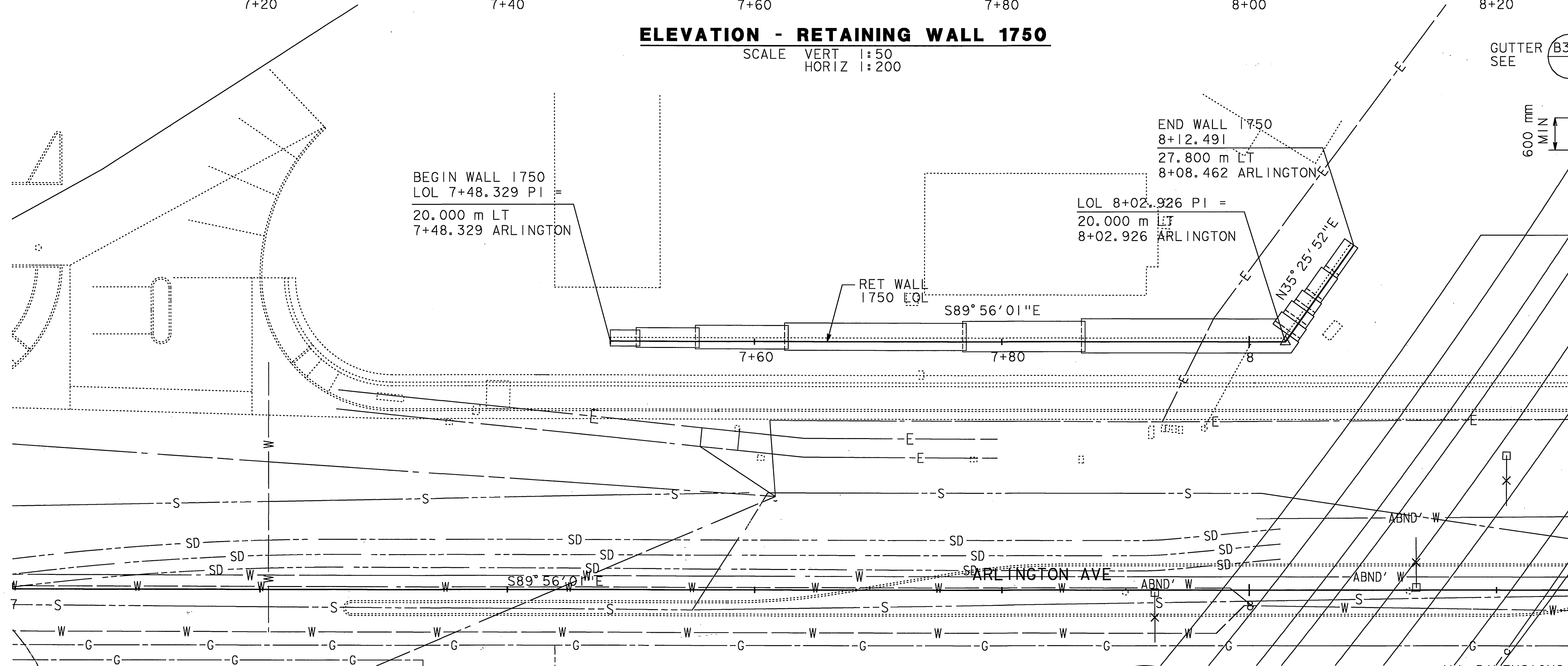
ELEVATION - RETAINING WALL 1750

SCALE VERT 1:50
HORIZ 1:200



**RETAINING WALL TYPE 1
TYPICAL SECTION**

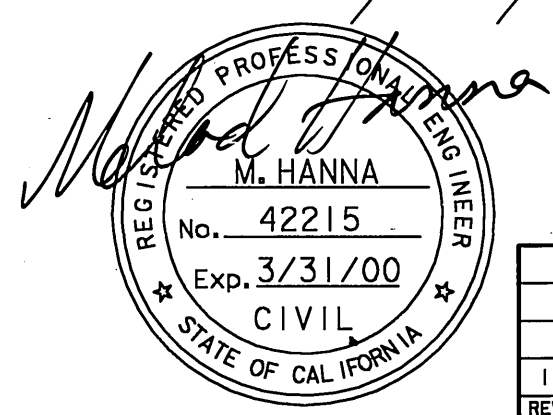
NO SCALE



PLAN
SCALE 1:200

ALL DIMENSIONS ARE SHOWN IN METERS UNLESS NOTED OTHERWISE.

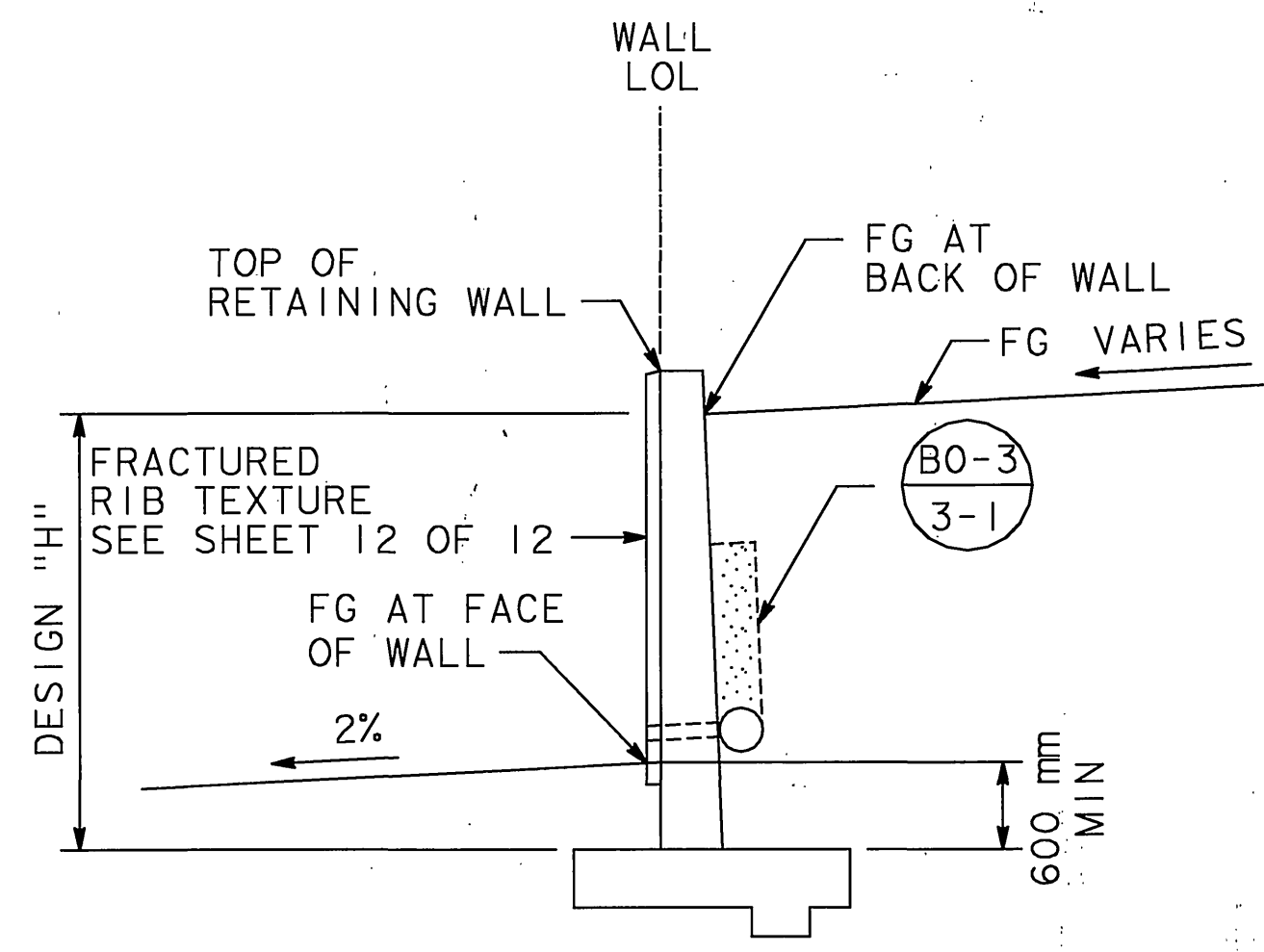
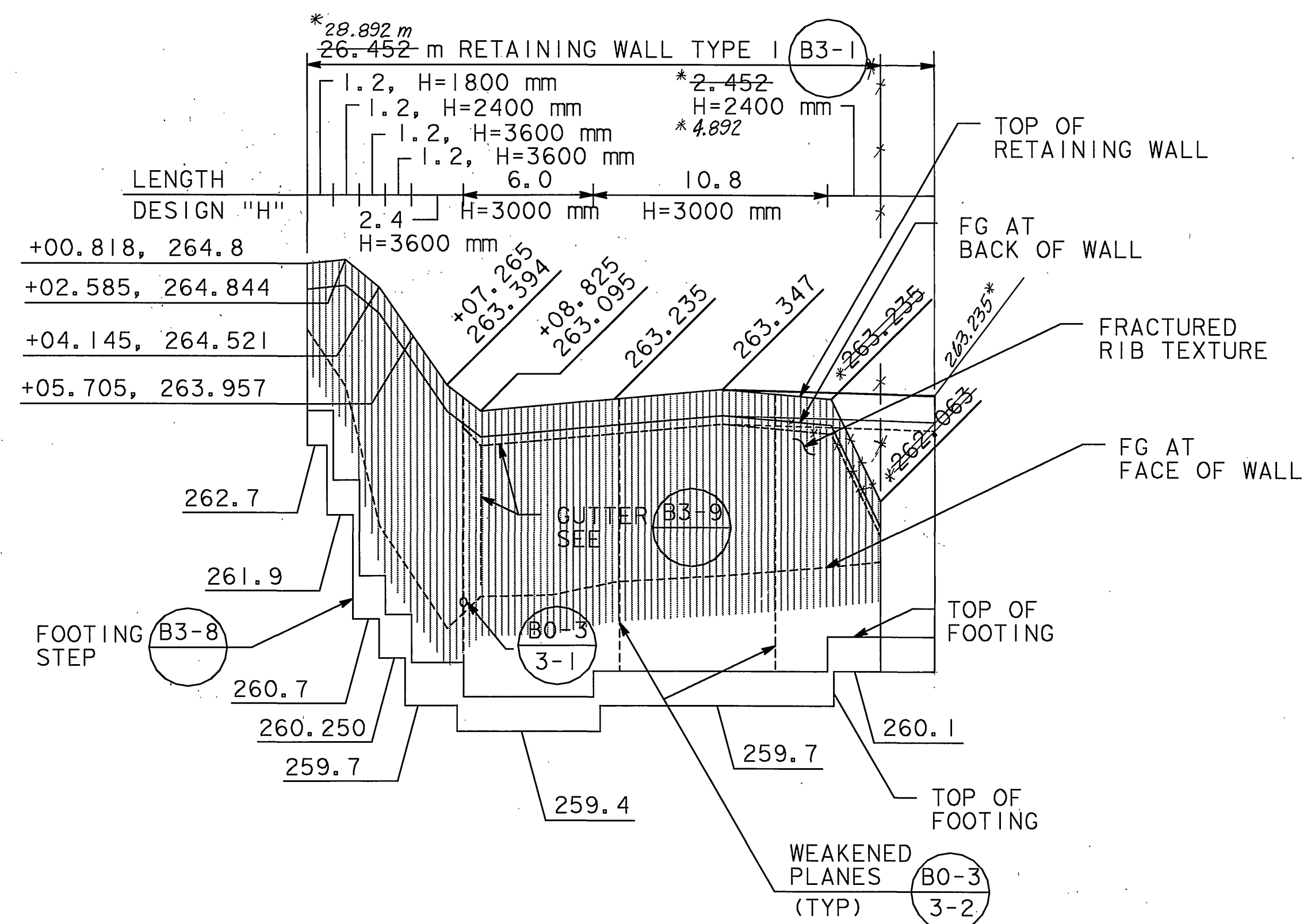
*AS-BUILT 9-7-2000 4H



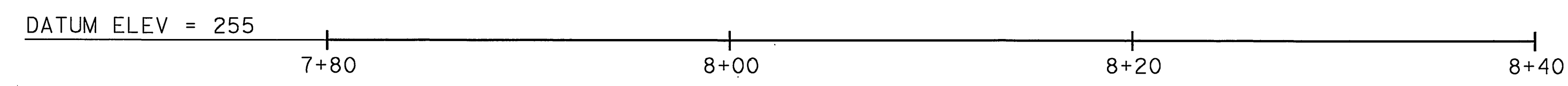
CITY OF RIVERSIDE, CALIFORNIA		ACCOUNT NUMBER	
MK CENTENNIAL 17300 REDHILL AVE, STE 150 IRVINE, CALIFORNIA 92614		ARLINGTON AVENUE UP AT AT&SF RAILROAD CROSSING	
DESIGNED BY J JABLONSKI 2/98		APPROVED BY R. McMath PUBLIC WORKS DIRECTOR	
DETAILS BY J JABLONSKI 2/98		DATE 5-7-98	
CHECKED BY M HANNA 2/98		RETAINING WALL 1750 LAYOUT	
REV DESCRIPTION DATE BY		SHEET 9 OF 12	

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

INDEXED 9-7-2000 4H

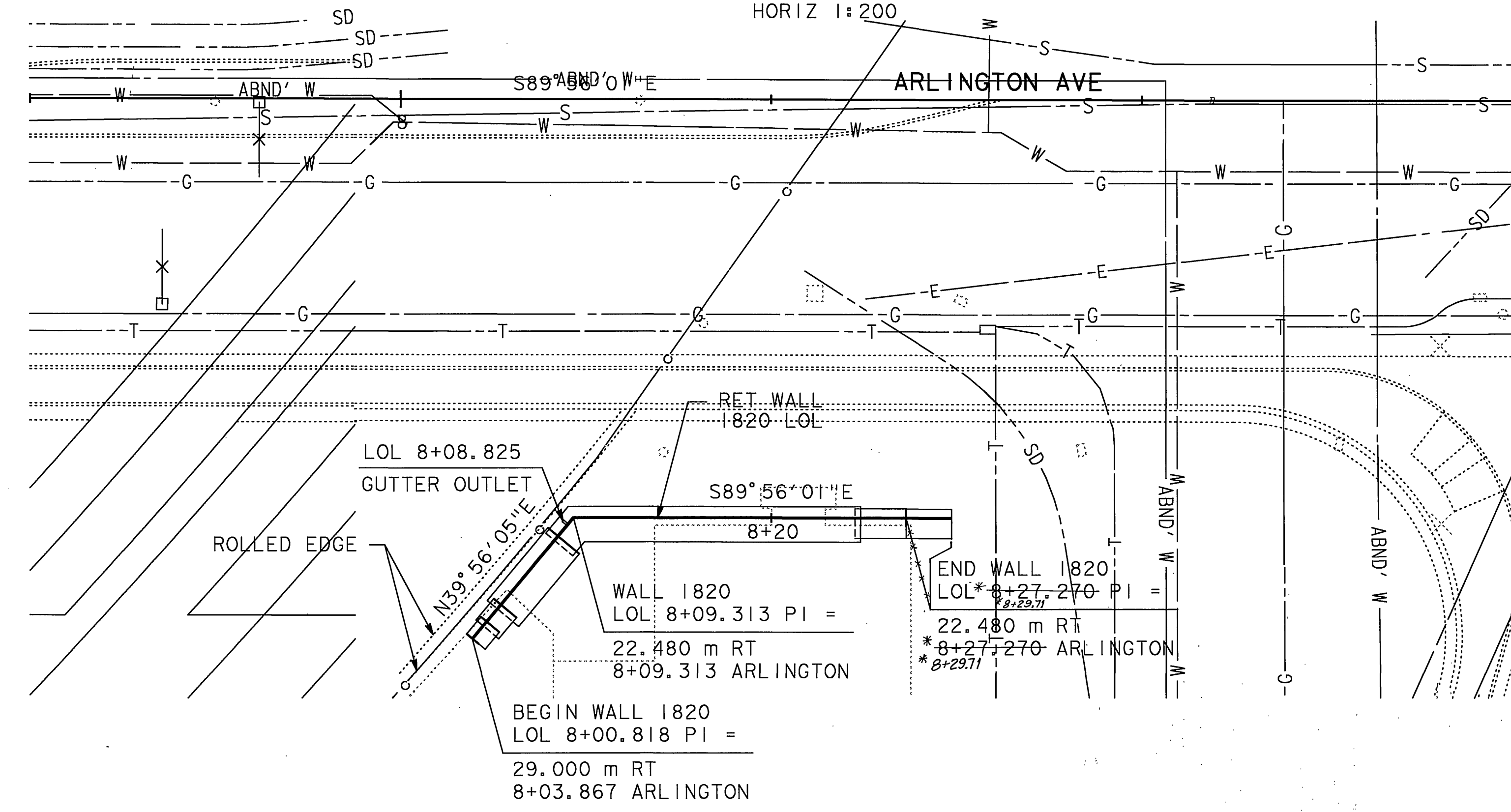


**RETAINING WALL TYPE 1
TYPICAL SECTION**
NO SCALE

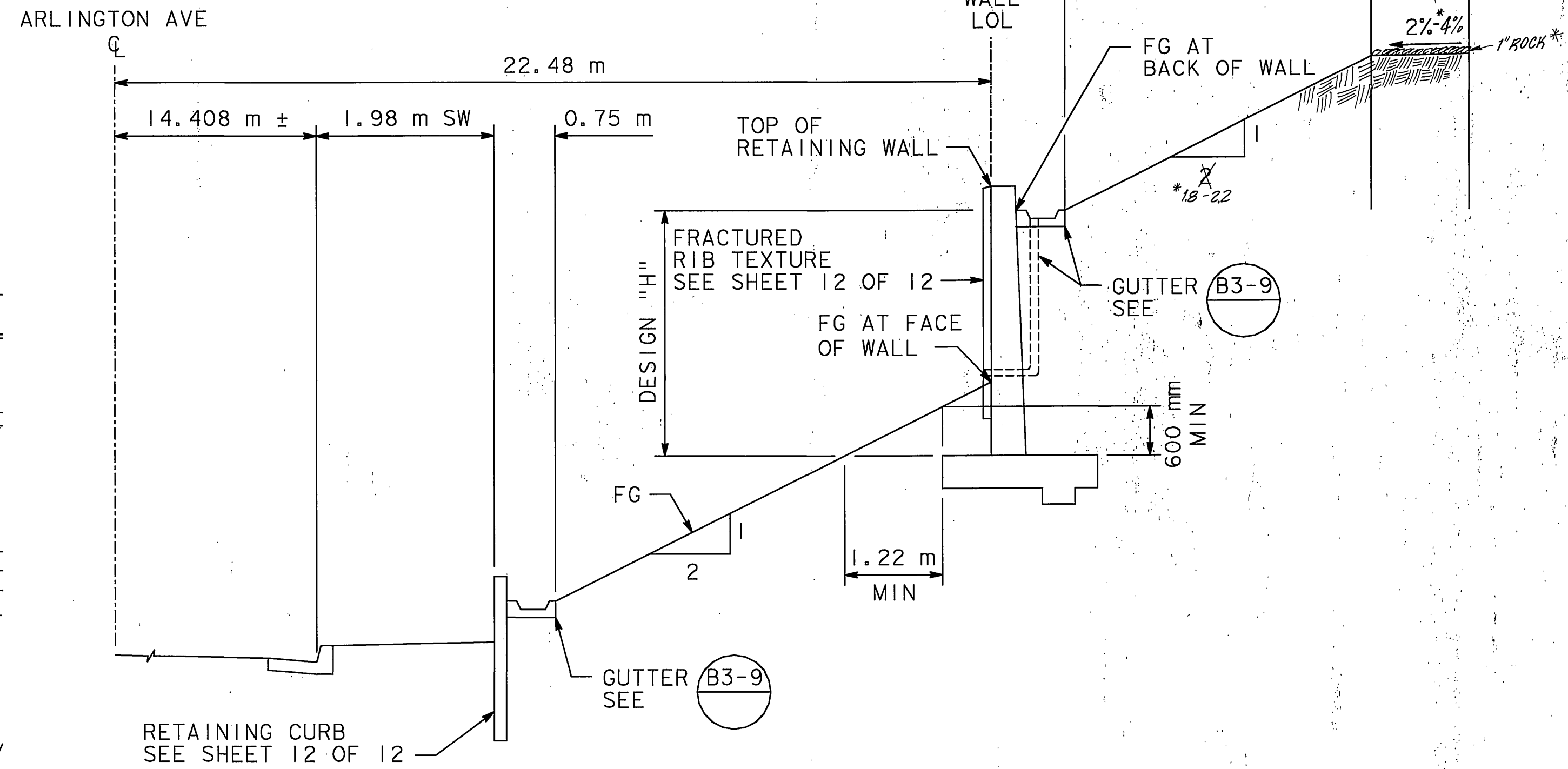


ELEVATION - RETAINING WALL 1820

SCALE VERT 1:50
HORIZ 1:200



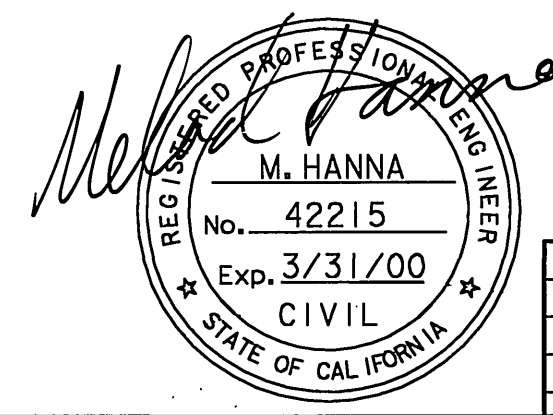
PLAN
SCALE 1:200



**RETAINING WALL TYPE 1
TYPICAL SECTION**
NO SCALE

LOL 8+08.018 TO
LOL 8+27.270

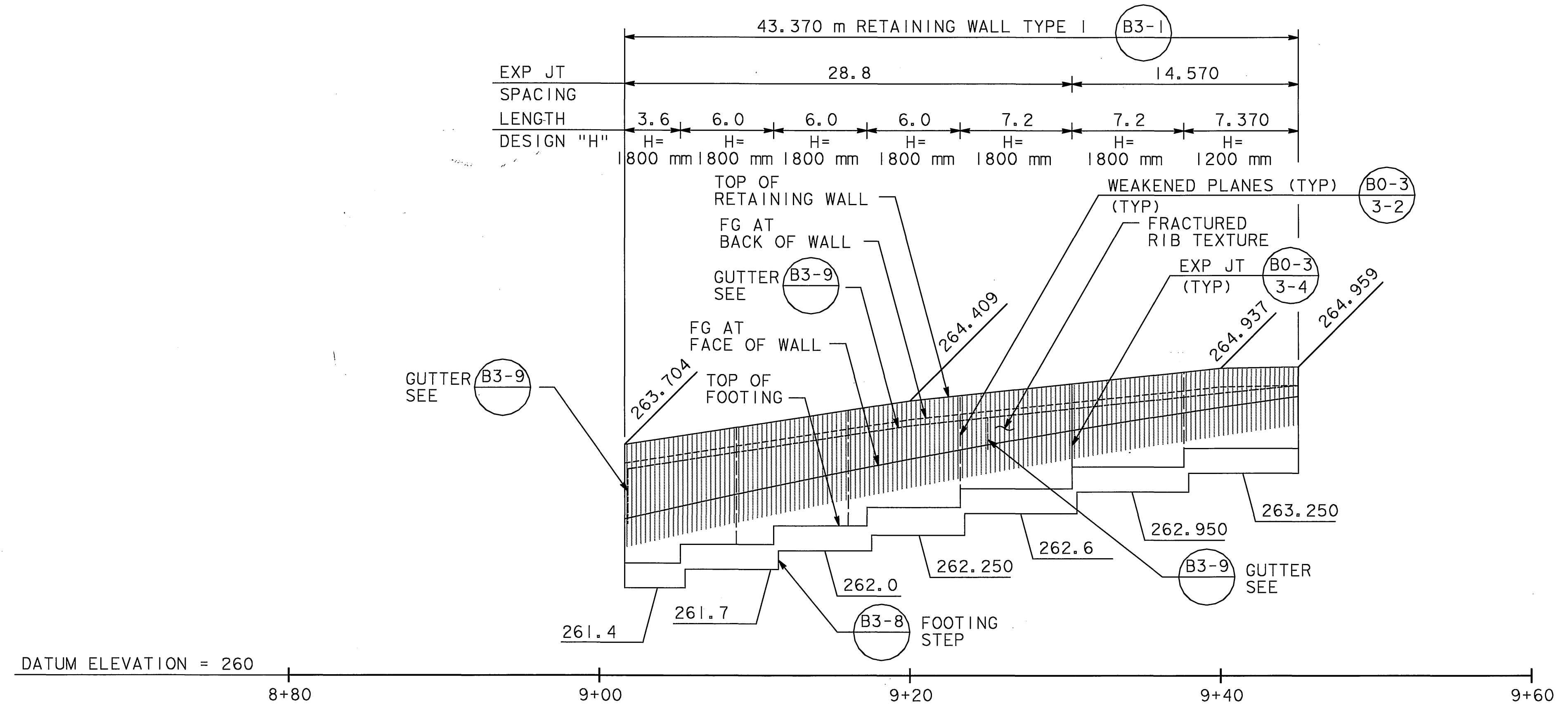
ALL DIMENSIONS ARE SHOWN IN METERS UNLESS NOTED OTHERWISE.



CITY OF RIVERSIDE, CALIFORNIA		ACCOUNT NUMBER	
MK CENTENNIAL 17300 REDHILL AVE, STE 150 IRVINE, CALIFORNIA 92614		ARLINGTON AVENUE UP AT AT&SF RAILROAD CROSSING	
DESIGNED: J JABLONSKI 2/98		R-3425	
DETAILS: J JABLONSKI 2/98		SHEET 10 OF 12	
CHECKED: M HANNA 2/98		DATE: 5-7-98	
APPROVED BY: R. M. Smith PUBLIC WORKS DIRECTOR		RETAINING WALL 1820 LAYOUT	

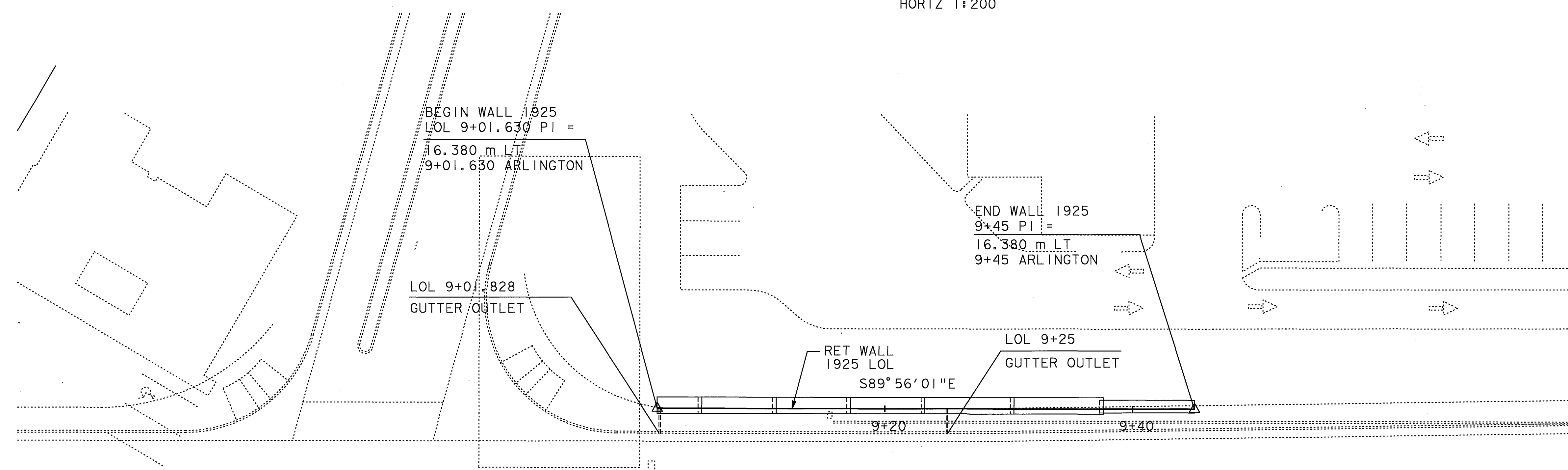
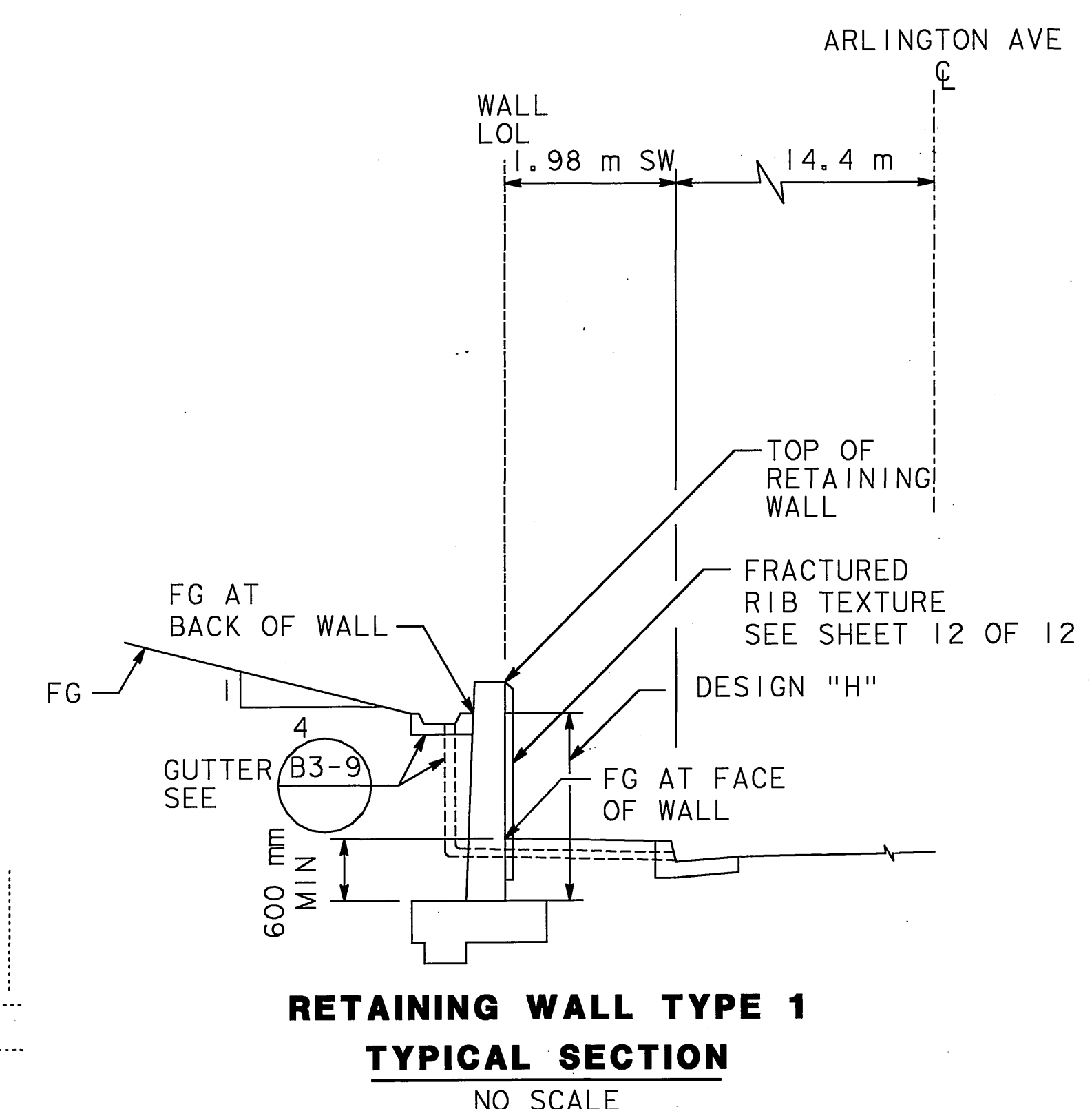
FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

INDEXED 9-7-2000 LHM

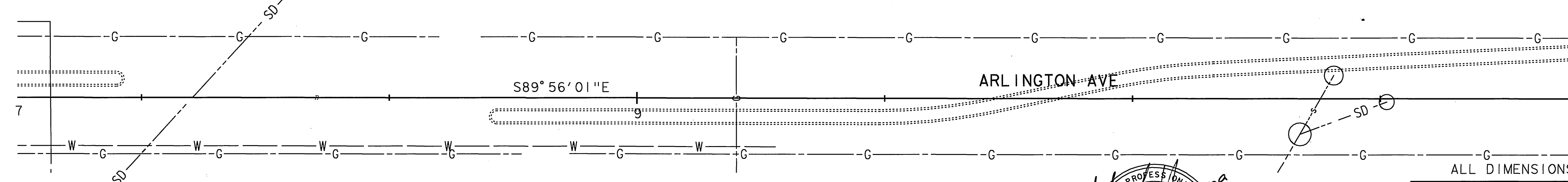


ELEVATION - RETAINING WALL 1925

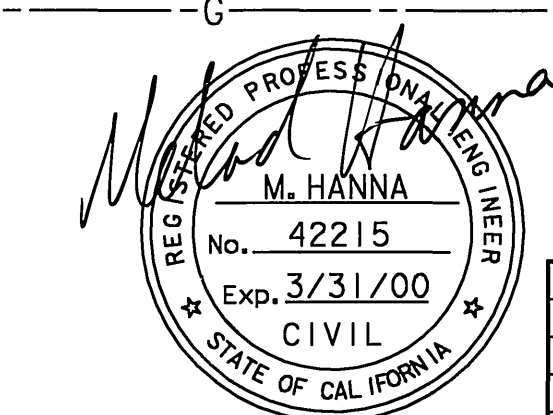
SCALE VERT 1:50
HORIZ 1:200



PLAN
SCALE 1:200



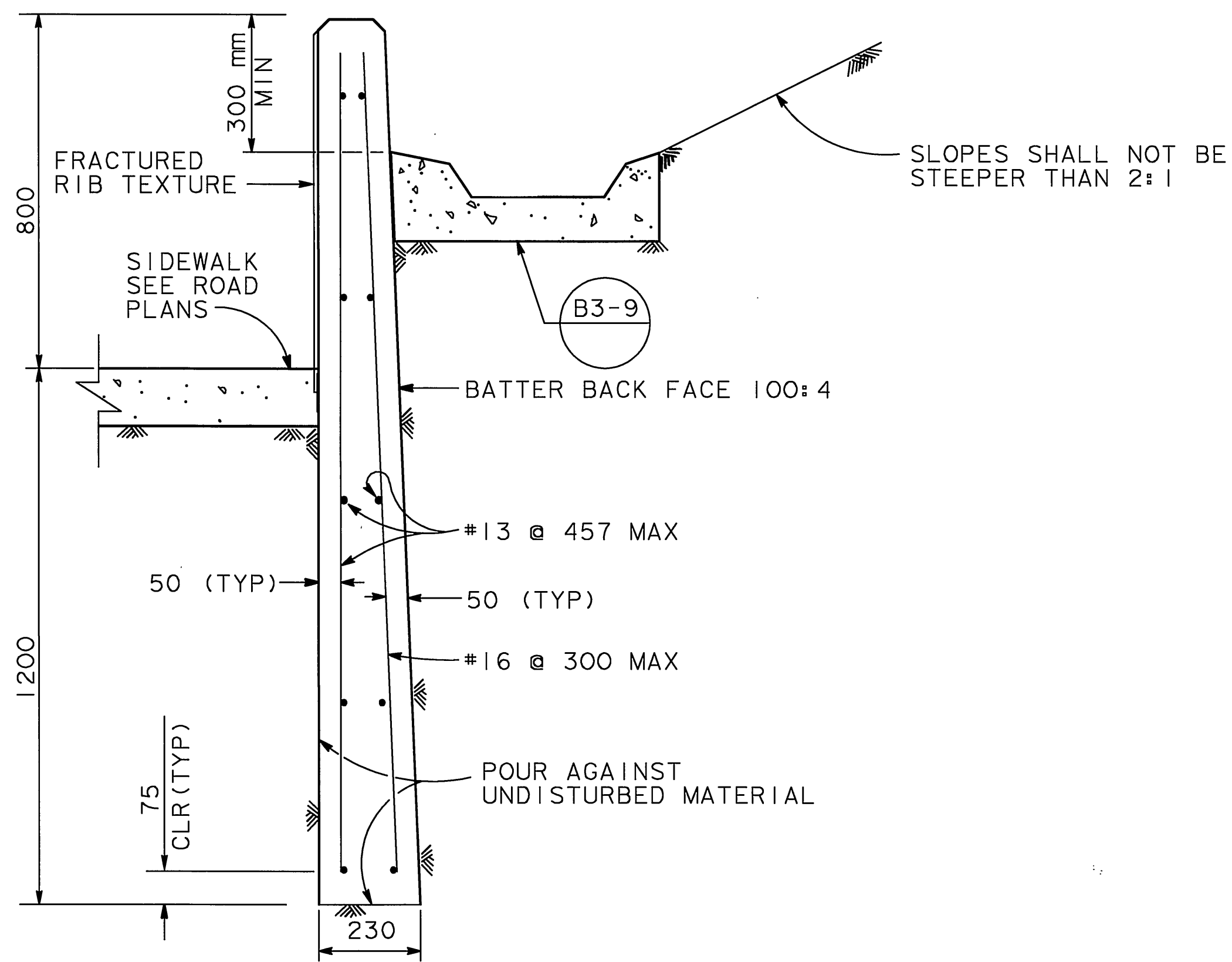
ALL DIMENSIONS ARE SHOWN IN METERS UNLESS NOTED OTHERWISE.



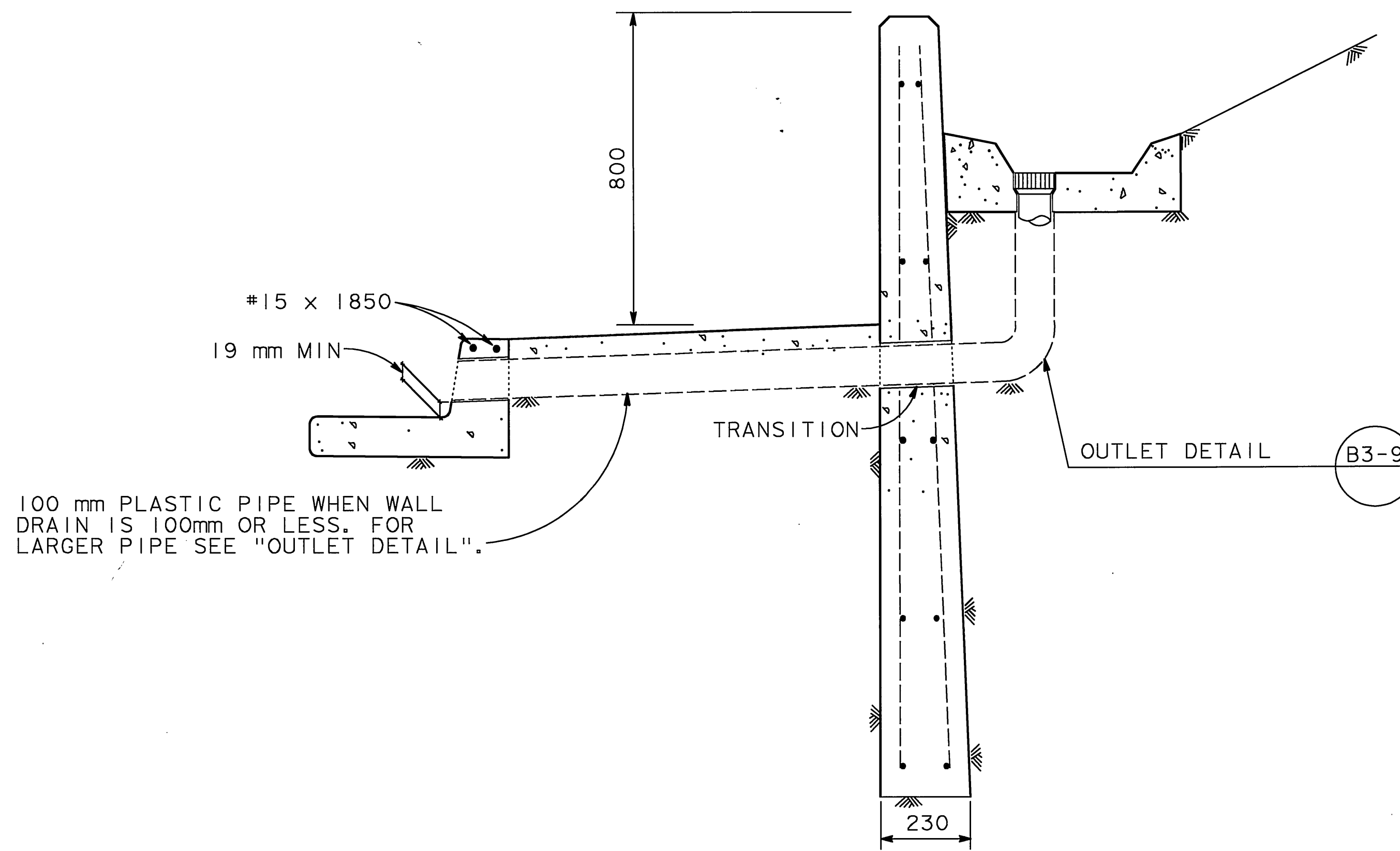
CITY OF RIVERSIDE, CALIFORNIA		ACCOUNT NUMBER	
MK CENTENNIAL 17300 REDHILL AVE, STE 150 IRVINE, CALIFORNIA 92614		R-3425	
DESIGNED BY J. JABLONSKI 2/98	APPROVED BY R. M. Brath PUBLIC WORKS DIRECTOR DATE 5-7-98	SHEET 11 OF 12	
DETAILS BY J. JABLONSKI 2/98	CHECKED BY M. HANNA 2/98	RETAINING WALL 1925 LAYOUT	
FINAL SUBMITTAL 2/24/98 MMH	DATE 2/24/98	INDEXED 9-7-2000 L/H	

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

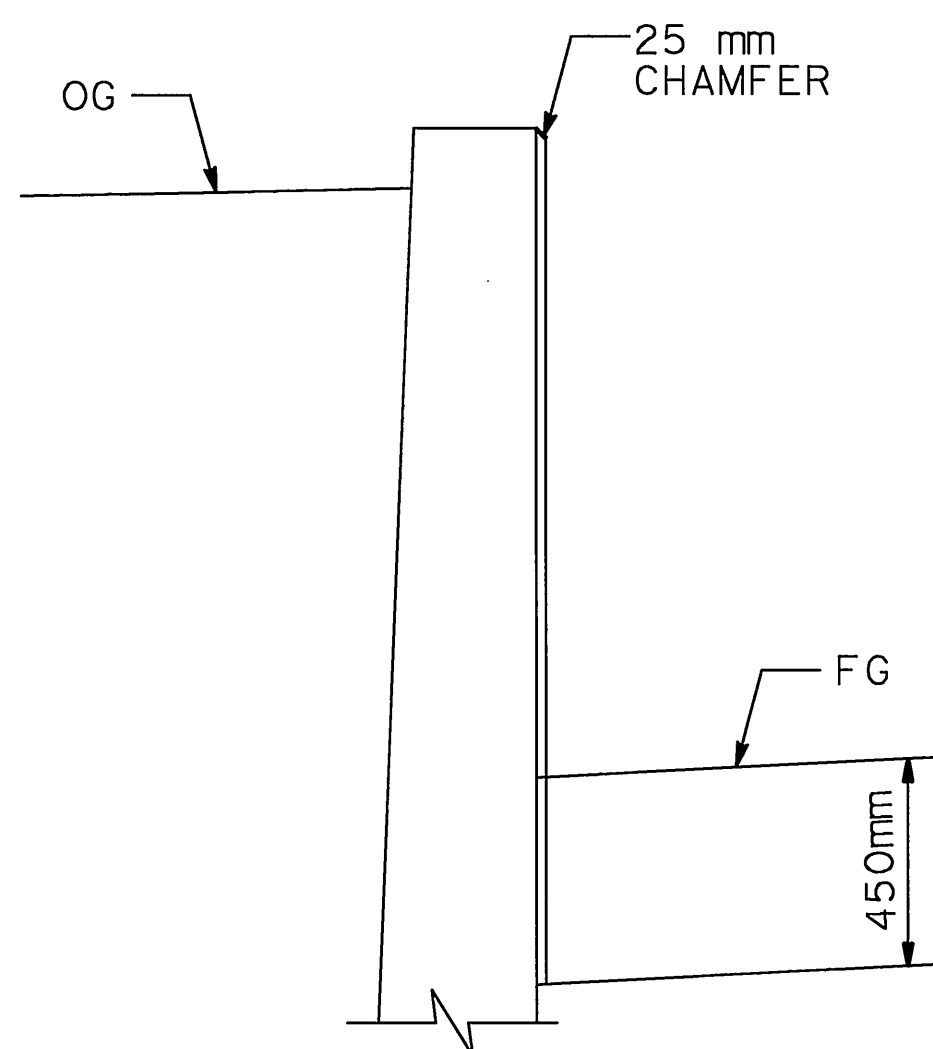
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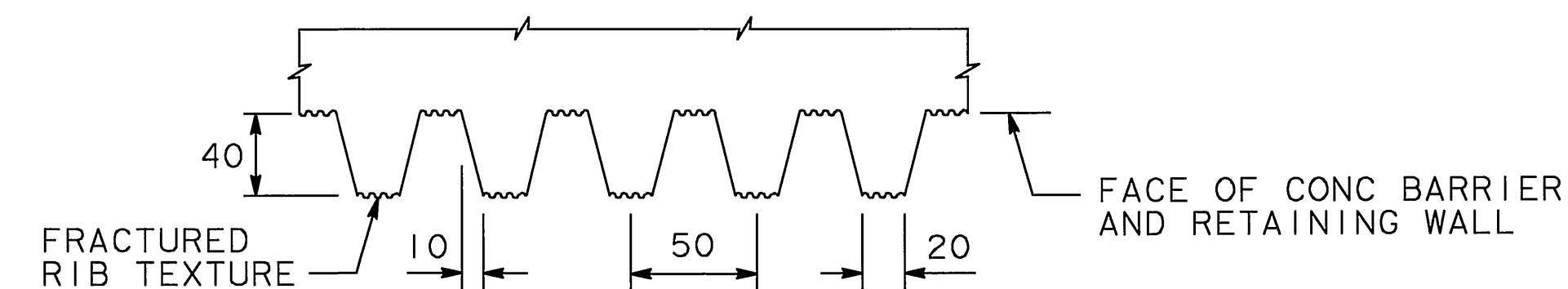
RETAINING CURB DETAIL
SCALE 1:10



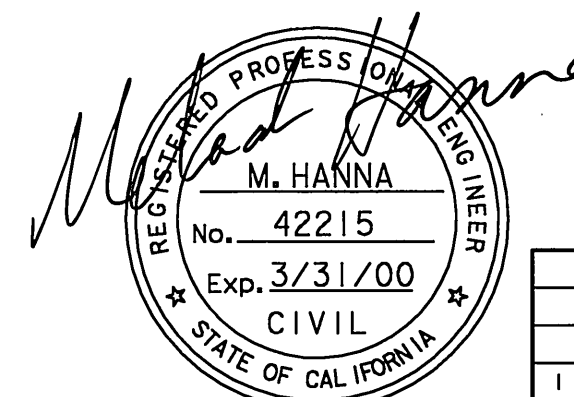
RETAINING CURB, GUTTER DETAIL
SCALE 1:10



FRACTURED RIB TEXTURE ON RET WALL TYPE 1
NO SCALE



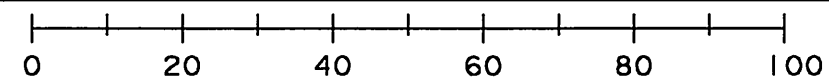
FRACTURED RIB TEXTURE
NO SCALE



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CITY OF RIVERSIDE, CALIFORNIA MK CENTENNIAL 17300 REDHILL AVE, STE 150 IRVINE, CALIFORNIA 92614		ARLINGTON AVENUE UP AT AT&SF RAILROAD CROSSING	ACCOUNT NUMBER R-3425
DESIGNED BY J. JABLONSKI	2/98		APPROVED BY <i>R. McBeath</i> PUBLIC WORKS DIRECTOR
DETAILS BY J. JABLONSKI	2/98	CHECKED BY M. HANNA	DATE 5-7-98
1 FINAL SUBMITTAL	2/24/98 MMH		
REV	DESCRIPTION	DATE	BY

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS



INDEXED 9-7-2000 L/H