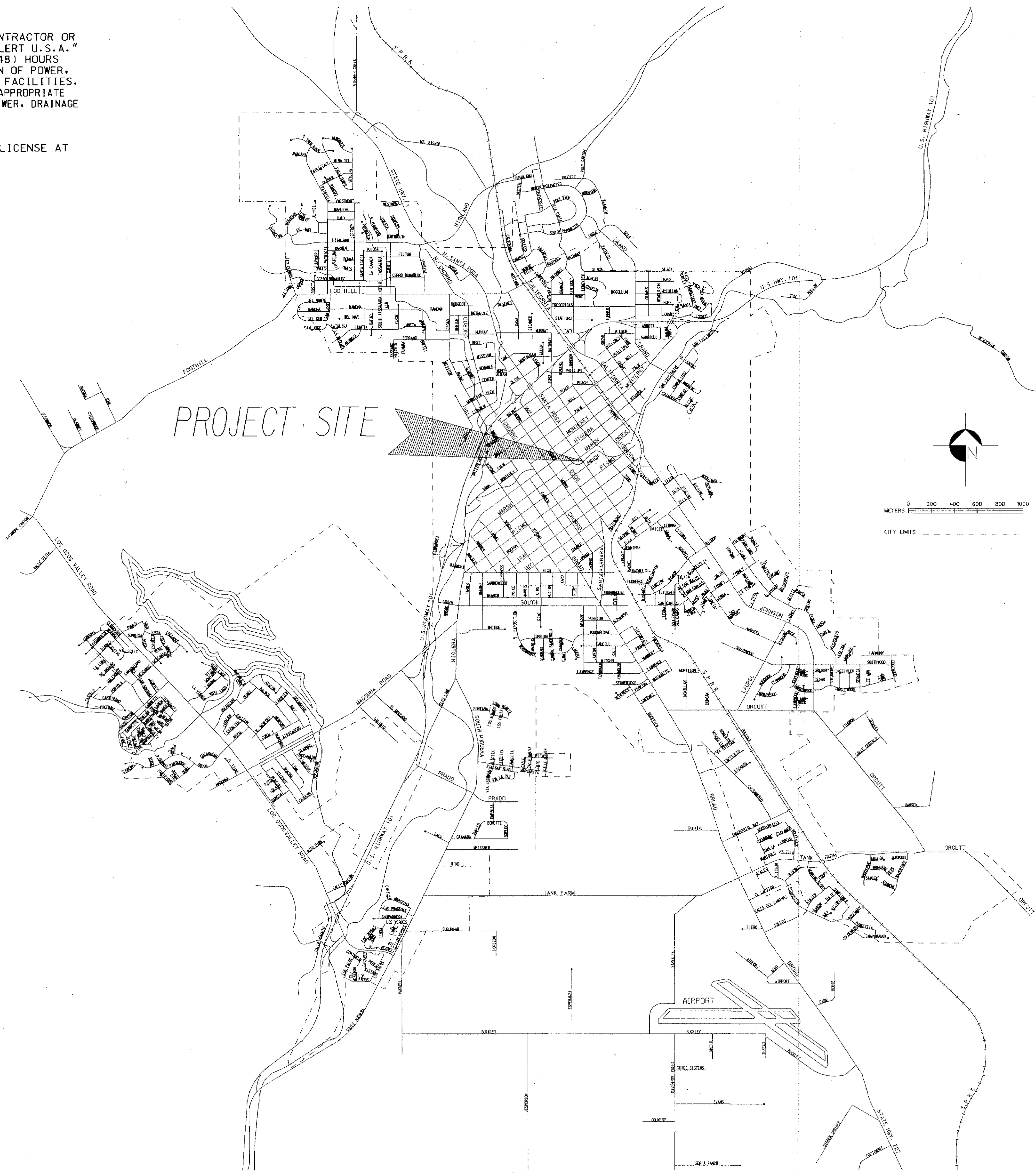


general notes

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR PERMITTEE TO CONTACT "UNDERGROUND SERVICE ALERT U.S.A." TOLL FREE AT 1-800-227-2600 FORTY-EIGHT (48) HOURS PRIOR TO START OF CONSTRUCTION, FOR LOCATION OF POWER, TELEPHONE, OIL AND NATURAL GAS UNDERGROUND FACILITIES. CONTRACTOR OR PERMITTEE SHALL ALSO CONTACT THE APPROPRIATE AGENCY FOR THE LOCATION OF CABLE T.V., WATER, SEWER, DRAINAGE OR UNDERGROUND FACILITIES.
2. THE CONTRACTOR SHALL POSSESS A CLASS "A" LICENSE AT THE TIME THE CONTRACT IS AWARDED.



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6	TEMPORARY CONSTRUCTION EASEMENT
7	SIGNING AND STRIPING PLAN
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16	SILL STRUCTURE
17	TYPICAL SECTION
18	SLAB REINFORCEMENT
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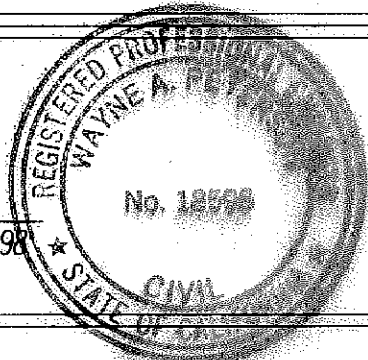


Federal Project No.
BRLN - 5016(002)

SPECIFICATION NO. 93 - 44F

APPROVED BY

Wayne A. Peterson
City Engineer



DATE
5/9/99
FILE NO./LOCATION
0092 8
SHEET
1 OF 19

LEGEND: (TYPICAL FOR SHEETS 2 & 3)

ABBREVIATIONS	SYMBOL	SPOT ELEVATION
AC	ASPHALTIC CONCRETE	
CL	CHAIN LINK	
CONC	CONCRETE	
DI	DRAIN INLET	
FG	FINISH GRADE	
FI	FIRE HYDRANT	
GV	GAS VALVE	
LIP	CATCH BASIN OPENING LIP ELEVATION	
MAG.	MAGNOLIA	
SDM-H	STORM DRAIN MANHOLE	
SVH	SEWER MANHOLE	
SYC	SYCAMORE	
TMH	TELEPHONE MANHOLE	
WV	WATER VALVE	

SYMBOL
X.XX

LINE TYPES

— x — x —	CHAIN LINK OR WIRE FENCE
— 20 —	EDGE OF PAVEMENT
— — — — —	CONTOUR
— — — — —	WOODEN FENCE
— — — — —	RIGHT-OF-WAY
— — — — —	SAWCUT LINE

CONSTRUCTION NOTES: (TYPICAL FOR SHEETS 2 & 3)

UTILITY CONSTRUCTION/RELOCATION NOTES:

- FURNISH & INSTALL (2)-250mm DIAMETER WELDED STEEL PIPE STEEL CASING PER "WATER PIPE AND STEEL PIPE CASING DETAIL" ON SHEET 9 AND COORDINATE WITH SOUTHERN CALIFORNIA GAS COMPANY FOR RELOCATION OF EXISTING (2)-6" (150mm) PVC GAS PIPE.
- REPLACE EXISTING 10" (250mm) DUCTILE IRON WATER PIPE PER "WATER PIPE AND STEEL PIPE CASING DETAIL" ON SHEET 9. CONTRACTOR SHALL CONSTRUCT REQUIRED TEMPORARY THRUST BLOCKS FOR THE WATERLINE. CITY WILL MANIPULATE ALL VALVES ON A 48 HOURS NOTICE.
- CONSTRUCT SIDE OPENING CATCH BASIN PER CITY ENGINEERING STANDARD NO. 3350. CURB OPENING IS 1m.
- TRIM THE 4" (100mm) STORM DRAIN PIPE TO FLUSH WITH CREEK SIDE OF ABUTMENT WALL. ADJUST PIPE VERTICAL GRADE AS REQUIRED BY THE NEW ABUTMENT CONSTRUCTION.
- CONTRACTOR TO COORDINATE WITH PG&E FOR PROTECTION OF ALL PERTINENT EXISTING ABOVE AND BELOW GROUND FACILITIES.
- RELOCATE EXISTING TRAFFIC SIGN TO BEHIND THE PROPOSED CURB, PER CITY ENGINEERING STANDARD NO. 7220/7210.
- REMOVE EXISTING 600mm DIA. CWP STORM DRAIN. FURNISH & INSTALL 600mm DIA. REINFORCED CONCRETE PIPE (RCP) CLASS II PER CITY ENGINEERING STANDARD NO. 6020 FROM EXISTING MANHOLE TO FLUSH WITH CREEK SIDE OF ABUTMENT WALL.
- CONSTRUCT 1.2m STORM DRAIN MANHOLE PER CITY ENGINEERING STANDARD NO. 3320.
- APPROXIMATE LOCATION OF PRE-FORMED TRAFFIC LOOP. REINSTALL TRAFFIC LOOP IN PAVEMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF THE 1.8m x 1.8m (6' x 6') LOOP.
- PROTECT EXISTING UTILITY SURFACE FEATURE/TRAFFIC SIGN IN PLACE & ADJUST TO FINISH GRADE. REPLACE EDGES AND LIDS TO CONFORM TO CITY STANDARDS.
- FURNISH & INSTALL 460mm DIA. RCP CLASS II STORM DRAIN CONNECTING INTO CATCH BASIN, MANHOLE AND OUTLET INTO CREEK (FLUSH WITH CREEK SIDE OF ABUTMENT WALL).
- PROTECT EXISTING UTILITY FACILITIES IN PLACE.
- CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH PACIFIC BELL FOR PROTECTION OF EXISTING 8-DUCT TELEPHONE STRUCTURE DURING DEMOLITION & RECONSTRUCTION OF BRIDGE STRUCTURE.
- FURNISH & INSTALL 100mm DIAMETER STEEL CASING PER "WATER PIPE AND STEEL PIPE CASING DETAIL" ON SHEET 9 AND COORDINATE WITH CITY FOR RELOCATING EXISTING FIBER OPTIC LINE THROUGH THE PROPOSED BRIDGE.
- APPROXIMATE LIMIT OF UTILITY MODIFICATION. CONTRACTOR TO COORDINATE WITH RESPECTIVE UTILITY TO ADDRESS MODIFICATION LOCATION RELATIVE TO THE BRIDGE REPLACEMENT.

PAVEMENT CONSTRUCTION NOTES:

- CONSTRUCT ASPHALT CONCRETE PAVEMENT TO MINIMUM THICKNESS OF 250mm.
- REMOVE AND REPLACE 150mm THICK OF ASPHALT CONCRETE PAVEMENT. MATCH EXISTING SURFACE GRADE. COMPACT TO SAME DENSITY AS ROADWAY.
- SAWCUT LINE AND MATCH EXISTING.
- CONSTRUCT 150mm HIGH CONCRETE CURB AND 450mm WIDE CUTTER (4% CROSS SLOPE) PER CITY OF SAN LUIS OBISPO (CITY) ENGINEERING STANDARD NO. 4030. CUTTER WIDTH TO TRANSITION FROM 450mm TO 600mm FOR CATCH BASIN OPENING PER CITY ENGINEERING STANDARD NO. 3350.
- CONSTRUCT MISSION TILE SIDEWALK PER CITY ENGINEERING STANDARD NO. 4220.
- CONSTRUCT 150mm THICK REINFORCED CONCRETE DRIVEWAY RAMP FOR SECTION AND NOTES PER CITY ENGINEERING STANDARD NO. 2111. CONTRACTOR SHALL PAY SPECIAL ATTENTION TO ADDITIONAL NOTES IN THE CITY STANDARD FOR MISSION TILE SIDEWALK AREA.
- CONSTRUCT 600mm WIDE, 100mm THICK, CONCRETE SWALE IN FRONT OF AND NORTH-EAST OF THE EXISTING BUILDING. FLOWLINE AT CENTER OF SWALE. GRADES PER PLAN. COMPACT BASE MATERIAL TO SAME DENSITY AS ROADWAY.
- CONSTRUCT 100mm THICK RED-VARROW SIDEWALK TO MATCH EXISTING SIDEWALK. CONTRACTOR SHALL RECEIVE APPROVAL OF REMOVAL BOUNDARY FROM ENGINEER PRIOR TO REMOVAL.
- REMOVE & RECONSTRUCT DRIVEWAY AS REQUIRED TO MATCH NEW FLOWLINE ELEVATION PER CITY ENGINEERING STANDARD NO. 2111.
- CONSTRUCT 100mm THICK CONCRETE SIDEWALK PER CITY ENGINEERING STANDARD NO. 4110.
- CONSTRUCT 200mm HIGH CONCRETE CURB AND 450mm WIDE CUTTER (4% CROSS SLOPE) PER CITY OF SAN LUIS OBISPO (CITY) ENGINEERING STANDARD NO. 4030. CUTTER WIDTH TO TRANSITION FROM 450mm TO 600mm FOR CATCH BASIN OPENING PER CITY ENGINEERING STANDARD NO. 3350. VARY HEIGHT OF CURB TO MATCH EXISTING SIDEWALK GRADE WHEN ADJACENT SIDEWALK REMAINS.
- INSTALL PLANTING AREA TO MATCH EXISTING CONDITION OF LANDSCAPED TREEWELL PLANTING AREAS ALONG NORTHSIDE OF SANTA ROSA STREET.
- CONSTRUCT 1.5m CUTTER CROSS SLOPE TRANSITION FROM 2% (ON BRIDGE) TO 4% (ON ROAD).

UNDERGROUND UTILITIES

THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA AT 1-800-422-4133 A MINIMUM OF 48 WORKING HOURS PRIOR TO DIGGING.

UNDERGROUND FACILITIES

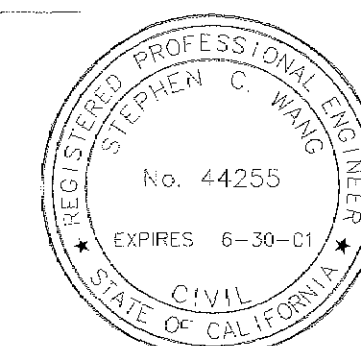
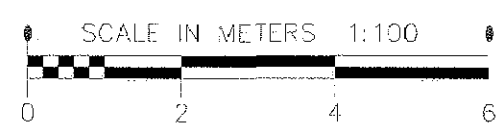
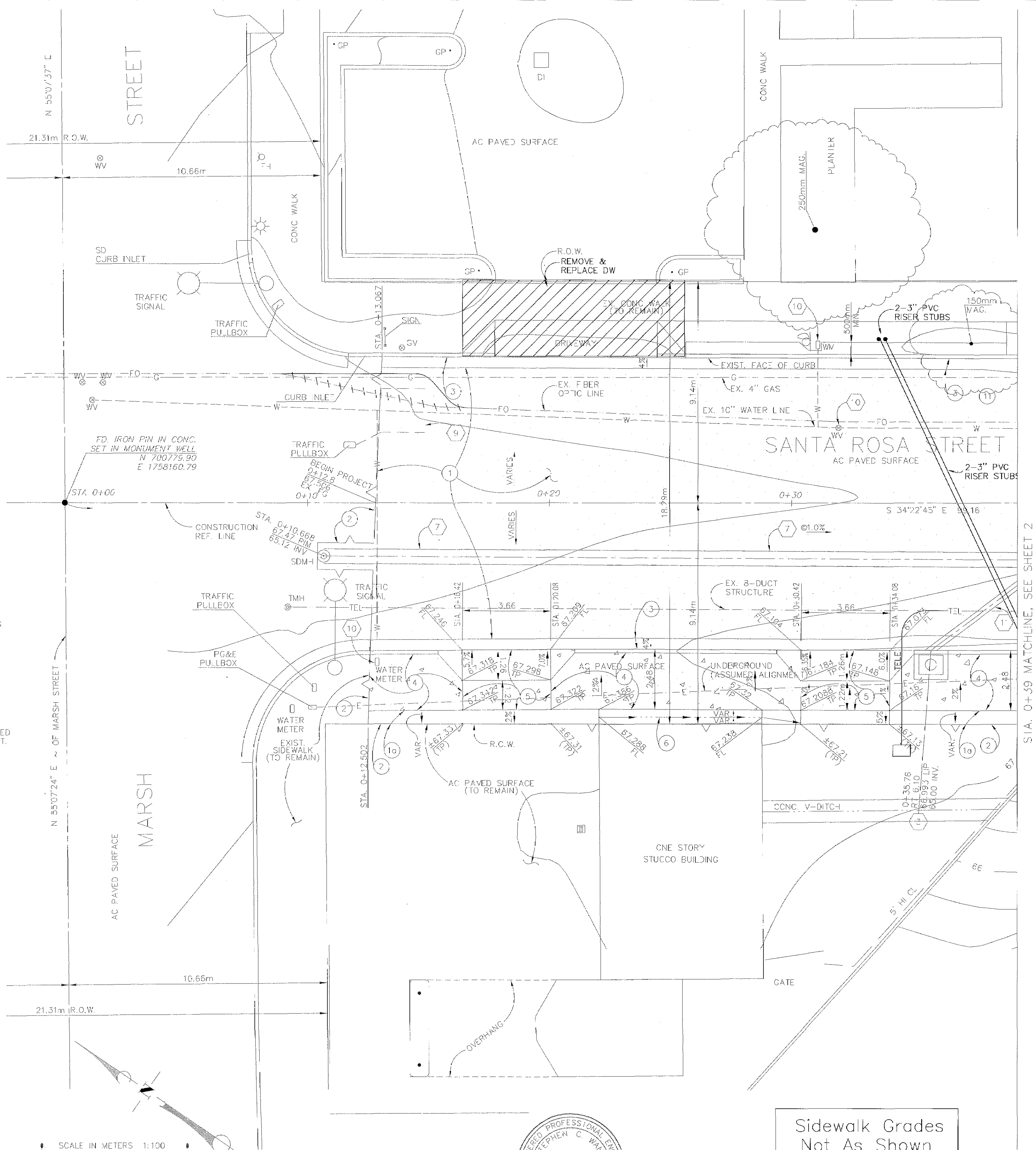
UNDERGROUND UTILITIES AND SUBSTRUCTURES AS SHOWN HEREON WERE OBTAINED FROM AVAILABLE SOURCES. THE ACCURACY OF WHICH HAS NOT BEEN DETERMINED. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF FIELD LOCATION AND DEPTH OF ALL SITE UTILITIES PRIOR TO EXCAVATION IN THE VICINITY OF SUCH UNDERGROUND FACILITIES.

BENCH MARKS:

- L&T AT B.C.R. AT N.E.C. OF HIGUERA & SANTA ROSA, ELEV. 67.90m;
- L&T 1.5m± EAST OF B.C.R. BY CATCH BASIN AT THE S.E.C. OF MARS-1 AND TORO, ELEV. 71.3m.

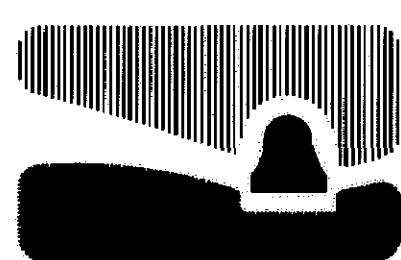
NOTE:

- SEE SHEETS 4 & 5 FOR STREET PROFILE DESIGN.



Sidewalk Grades
Not As Shown

RECORD DRAWING
DATE: 07/25/00 BY: CC



city of san luis obispo

SANTA ROSA STREET
BRIDGE REPLACEMENT PROJECT

APPROVED BY
CITY ENGINEER

DATE 12/30/98
SCALE 1:100
DESIGNED BY SCW
DRAWN BY KEH
CHECKED BY HPF/SAO
APPROVED BY

STREET IMPROVEMENT PLAN
SAN LUIS CREEK BRIDGE

SPECIFICATION NO.
9344
FILE NO./LOCATION
0094 B
SHEET
2 OF 19

LEGEND: (TYPICAL FOR SHEETS 2 & 3)

ABBREVIATIONS

AC	ASPHALTIC CONCRETE
CL	CHAIN LINK
CONC	CONCRETE
DI	DROP INLET
FG	FINISH GRADE
PH	FIRE HYDRANT
GV	GAS VALVE
LIP	CATCH BASIN OPENING LIP ELEVATION
MAG.	MAGNOLIA
SDMH	STORM DRAIN MANHOLE
SMH	SEWER MANHOLE
SYC	SYCAMORE
TMH	TELEPHONE MANHOLE
WV	WATER VALVE

SYMBOL

XX.XX	SPOT ELEVATION
-------	----------------

LINE TYPES

— x — x —	CHAIN LINK OR WIRE FENCE
— — — —	EDGE OF PAVEMENT
— 20 —	CONTOUR
— o — o —	WOODEN FENCE
— — — —	RIGHT-OF-WAY
— / — / —	SAWCUT LINE

CONSTRUCTION NOTES: (TYPICAL FOR SHEETS 2 & 3)

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- REPLACE EXISTING 10" (250mm) DUCTILE IRON WATER PIPE PER "WATER PIPE AND STEEL PIPE CASING DETAIL" ON SHEET 9. CONTRACTOR SHALL CONSTRUCT REQUIRED TEMPORARY THRUST BLOCKS FOR THE WATERLINE. CITY WILL MANIPULATE ALL VALVES ON A 48 HOURS NOTICE.
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- TRIM THE 4" (100mm) STORM DRAIN PIPE TO FLUSH WITH CREEK SIDE OF ABUTMENT WALL. ADJUST PIPE VERTICAL GRADE AS REQUIRED BY THE NEW ABUTMENT CONSTRUCTION.
- CONTRACTOR TO COORDINATE WITH PG&E FOR PROTECTION OF ALL PERTINENT EXISTING ABOVE AND BELOW GROUND FACILITIES.
- RELOCATE EXISTING TRAFFIC SIGN TO BEHIND THE PROPOSED CURB, PER CITY ENGINEERING STANDARD NO. 7220/7210.
- REMOVE EXISTING 600 mm DIA. CMP STORM DRAIN. FURNISH & INSTALL 600mm DIA. REINFORCED CONCRETE PIPE (RCP) CLASS III PER CITY ENGINEERING STANDARD NO. 6020 FROM EXISTING MANHOLE TO FLUSH WITH CREEK SIDE OF ABUTMENT WALL.
- CONSTRUCT 1.2m STORM DRAIN MANHOLE PER CITY ENGINEERING STANDARD NO. 3520.
- APPROXIMATE LOCATION OF PRE-FORMED TRAFFIC LOOP. REINSTALL TRAFFIC LOOP IN PAVEMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF THE 1.8m x 1.8m (6'x6') LOOP.
- PROTECT EXISTING UTILITY SURFACE FEATURE/TRAFFIC SIGN IN PLACE & ADJUST TO FINISH GRADE. REPLACE BOXES AND LIDS TO CONFORM TO CITY STANDARDS.
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- FURNISH & INSTALL 100mm DIAMETER STEEL CASING PER "WATER PIPE AND STEEL PIPE CASING" DETAIL ON SHEET 9 AND COORDINATE WITH CITY FOR RELOCATING EXISTING FIBER OPTIC LINE THROUGH THE PROPOSED BRIDGE.
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UNDERGROUND FACILITIES

UNDERGROUND UTILITIES AND SUBSTRUCTURES AS SHOWN HEREON WERE OBTAINED FROM AVAILABLE SOURCES. THE ACCURACY OF WHICH HAS NOT BEEN DETERMINED. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF FIELD LOCATION AND DEPTH OF ALL SITE UTILITIES PRIOR TO EXCAVATION IN THE VICINITY OF SUCH UNDERGROUND FACILITIES.

PAVEMENT CONSTRUCTION NOTES:

- CONSTRUCT ASPHALT CONCRETE PAVEMENT TO MINIMUM THICKNESS OF 250mm.
- REMOVE AND REPLACE 130mm THICK OF ASPHALT CONCRETE PAVEMENT. MATCH EXISTING SURFACE GRADE, COMPACT TO SAME DENSITY AS ROADWAY.
- SAWCUT LINE AND MATCH EXISTING.
- CONSTRUCT 150mm HIGH CONCRETE CURB AND 450mm WIDE GUTTER (4% CROSS SLOPE) PER CITY OF SAN LUIS OBISPO (CITY) ENGINEERING STANDARD NO. 4030. GUTTER WIDTH TO TRANSITION FROM 450mm TO 600mm FOR CATCH BASIN OPENING PER CITY ENGINEERING STANDARD NO. 3350.
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- CONSTRUCT 150mm THICK REINFORCED CONCRETE DRIVEWAY RAMP FOR SECTION AND NOTES PER CITY ENGINEERING STANDARD NO. 2111. CONTRACTOR SHALL PAY SPECIAL ATTENTION TO ADDITIONAL NOTES IN THE CITY STANDARD FOR MISSION STYLE SIDEWALK AREA.
- CONSTRUCT ±600mm WIDE, 100mm THICK, CONCRETE SWALE IN FRONT OF AND NORTH-EAST OF THE EXISTING BUILDING. FLOWLINE AT CENTER OF SWALE, GRADES PER PLAN. COMPACT BASE MATERIAL TO SAME DENSITY AS ROADWAY.
- CONSTRUCT 100mm THICK RED-NARROW SIDEWALK TO MATCH EXISTING SIDEWALK. CONTRACTOR SHALL RECEIVE APPROVAL OF REMOVAL BOUNDARY FROM ENGINEER PRIOR TO REMOVAL.
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- INSTALL PLANTING AREA TO MATCH EXISTING CONDITION OF LANDSCAPED TREEWELL PLANTING AREAS ALONG NORTHSIDE OF SANTA ROSA STREET.
- CONSTRUCT 1.5m GUTTER CROSS SLOPE TRANSITION FROM 2% (ON BRIDGE) TO 4% (ON ROAD).
- INSTALL STREET TREE PER CITY ENGINEERING STANDARDS VARIETY - TRISTANIA CONFERTA

REMOVAL/ABANDONMENT NOTES:

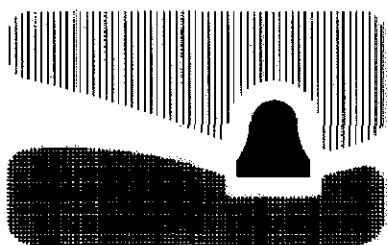
- REMOVE EXISTING ASPHALT CONCRETE PAVEMENT AND AGGREGATE BASE AS NECESSARY TO MINIMUM THICKNESS OF 250mm.
- REMOVE BRIDGE COMPLETE. SEE BRIDGE PLANS, SHEETS 10 OF 19, 13 OF 19 & 14 OF 19, FOR DETAILS.
- REMOVE CONCRETE CURB/CURB & GUTTER.
- REMOVE CONCRETE SIDEWALK.
- REMOVE TREE COMPLETE.
- REMOVE EXISTING ASPHALT CONCRETE PAVEMENT SURFACE.
- REMOVE CATCH BASIN.
- REMOVE STORM DRAIN.
- REMOVE PORTIONS OF CONC. WALL. SEE BRIDGE PLANS.
- ADJUST PLANTER GRADE TO MATCH PROP. TOP OF CURB CONSTRUCTION AND RESTORE PLANTING AREA TO ORIGINAL CONDITION.
- REMOVE GABIONS. SEE SHEET 16 OF 19 FOR DETAILS AND LIMITS.

BENCH MARKS:

- L&T AT B.C.R. AT N.E.C. OF HIGUERA & SANTA ROSA, ELEV. 67.90m.
- L&T 1.5m EAST OF B.C.R. BY CATCH BASIN AT THE S.E.C. OF MARSH AND TORO, ELEV. 71.13m.

NOTE:

- SEE SHEETS 4 & 5 FOR STREET PROFILE DESIGN.



city of san luis obispo

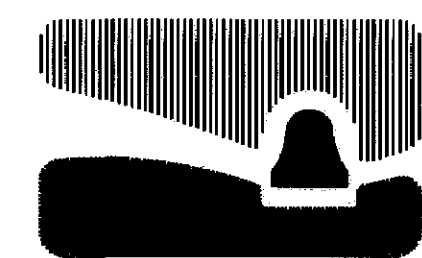
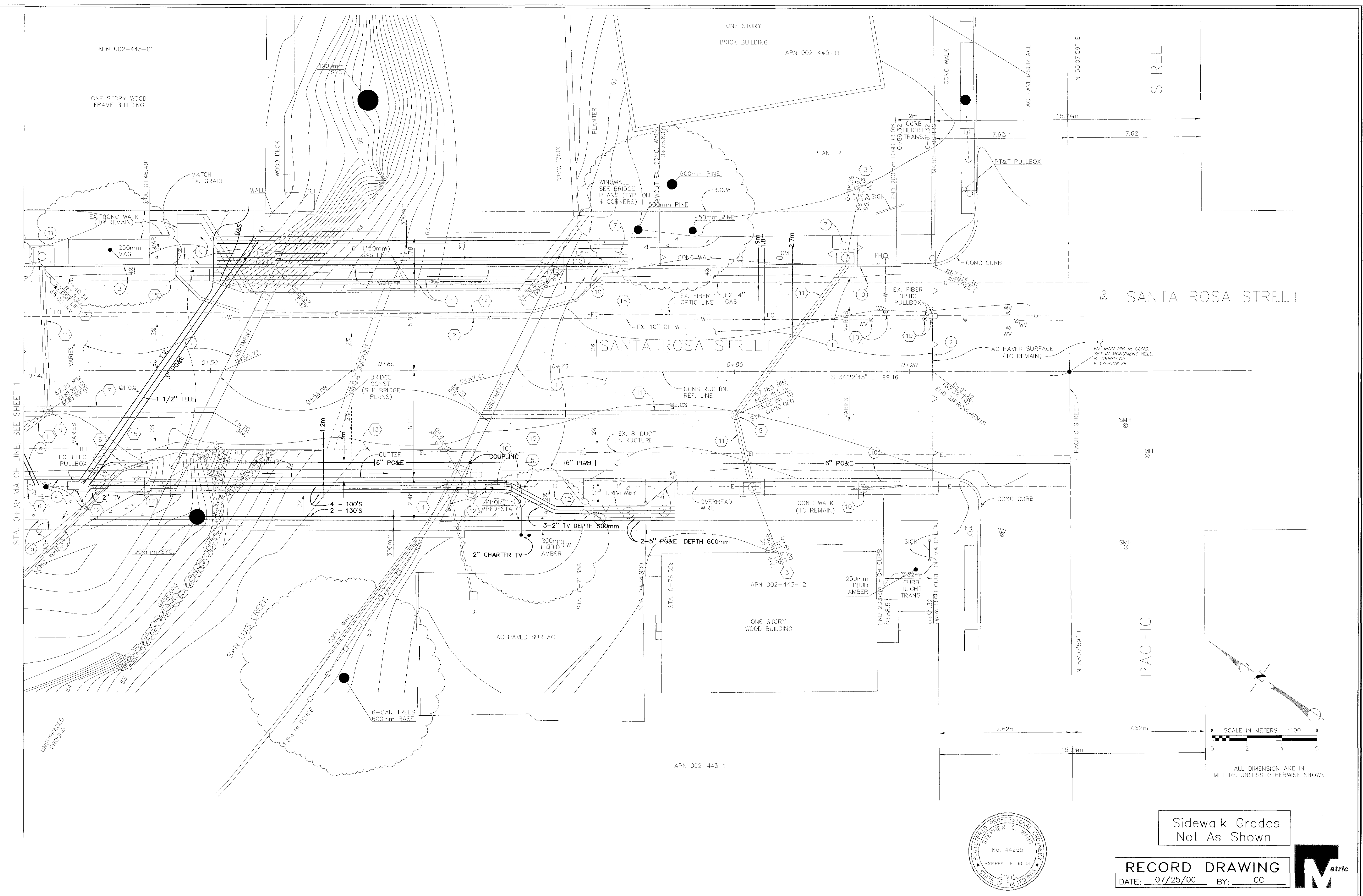
SANTA ROSA STREET
BRIDGE REPLACEMENT PROJECT

APPROVED BY
CITY ENGINEER

DATE 12/30/98
SCALE 1:100
DESIGNED BY SCW
DRAWN BY KEH
CHECKED BY HPF/SAO
APPROVED BY

STREET IMPROVEMENT PLAN
SAN LUIS CREEK BRIDGE

SPECIFICATION NO.
9344
FILE NO./LOCATION
0052.5
SHEET
2 OF 19



city of san luis obispo

**SANTA ROSA STREET
BRIDGE REPLACEMENT PROJECT**

APPROVED BY

CITY ENGINEER

DATE	12/30/98
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SCALE 1:100

DESIGNED BY SCV

DRAWN BY KEH

CHECKED BY	HPF
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APPROVED BY

STREET IMPROVEMENT PLAN SAN LUIS CREEK BRIDGE

RECORD DRAWING
DATE: 07/25/00 BY: CC



SPECIFICATION NO.

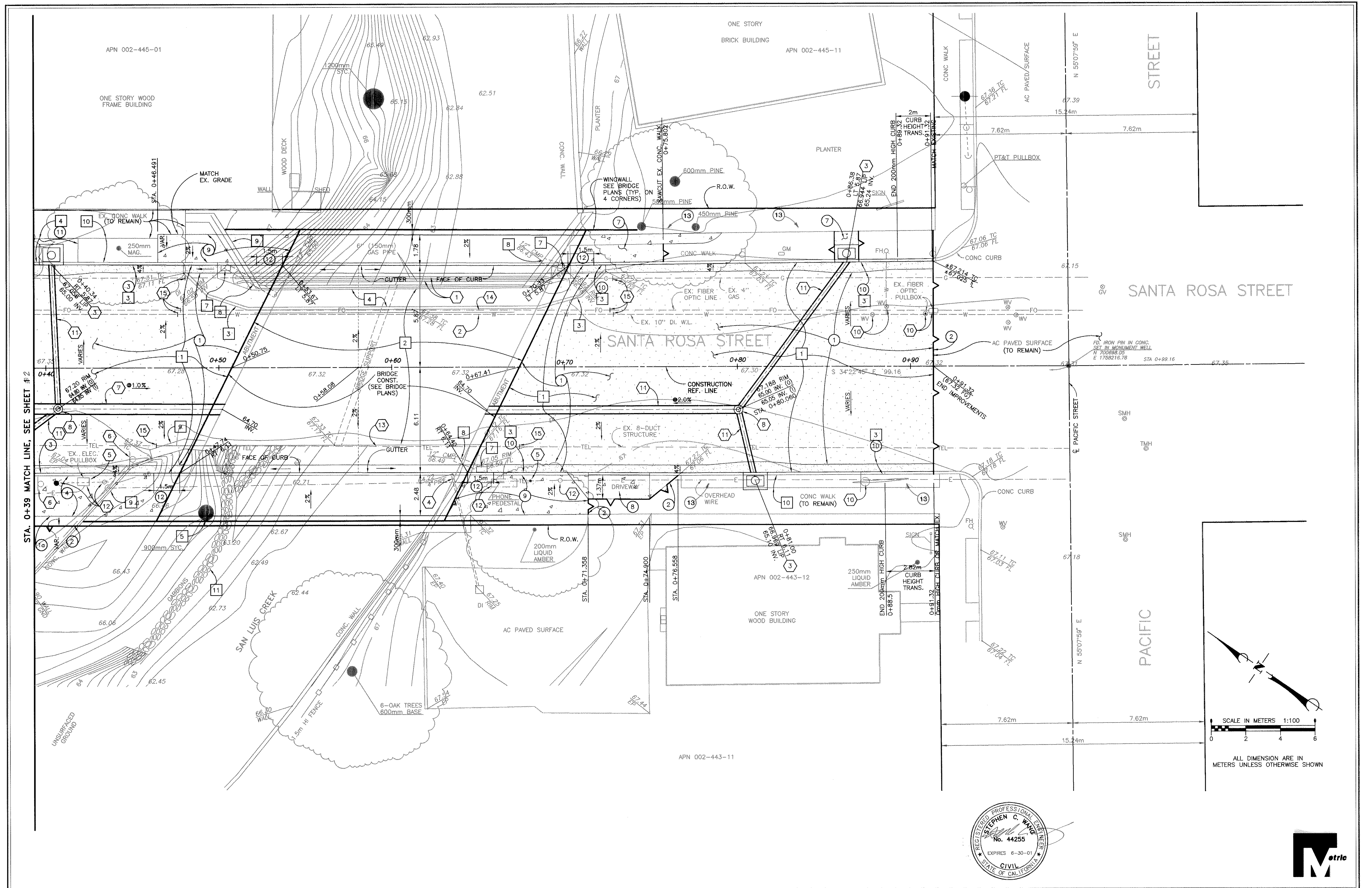
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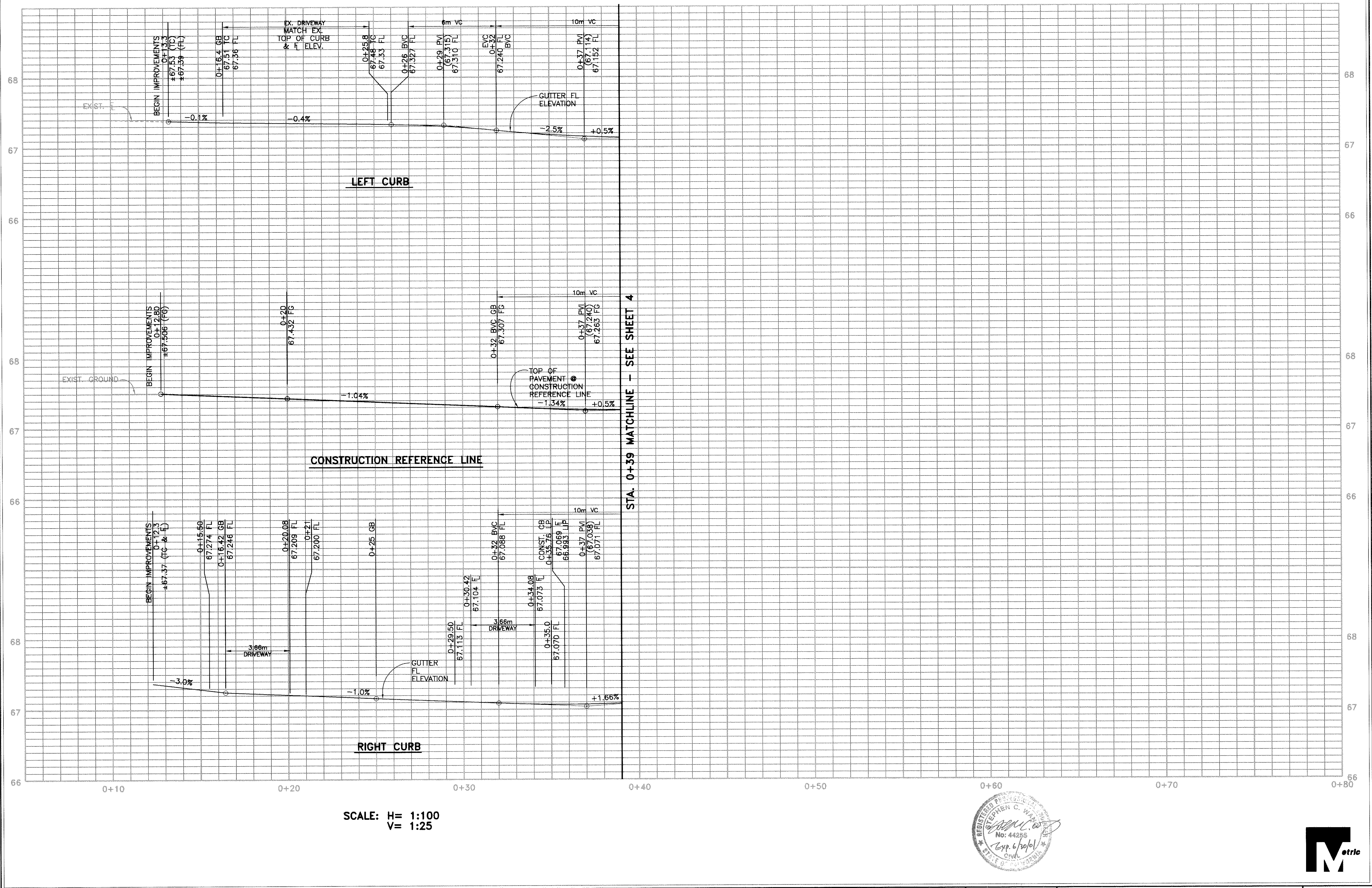
FILE NO./LOCATION
0032 B

HEET

38 OF 19



 city of san luis obispo	SANTA ROSA STREET BRIDGE REPLACEMENT PROJECT	APPROVED BY CITY ENGINEER DATE 12/30/98 SCALE 1:100 DESIGNED BY SCW DRAWN BY KEH CHECKED BY HPF APPROVED BY
STREET IMPROVEMENT PLAN SAN LUIS CREEK BRIDGE		SPECIFICATION NO. 9344 FILE NO./LOCATION 0034.5 SHEET 3 OF 19



APPROVED BY

CITY ENGINEER

DATE

12/30/98

SCALE

1:100

DESIGNED BY

SCW

DRAWN BY

KEH

CHECKED BY

APPROVED BY

STREET IMPROVEMENT PLAN

PROFILES

SPECIFICATION NO.

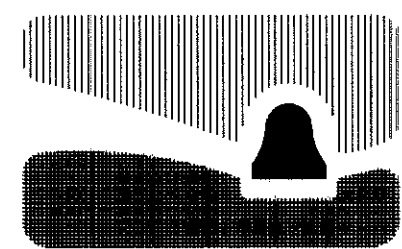
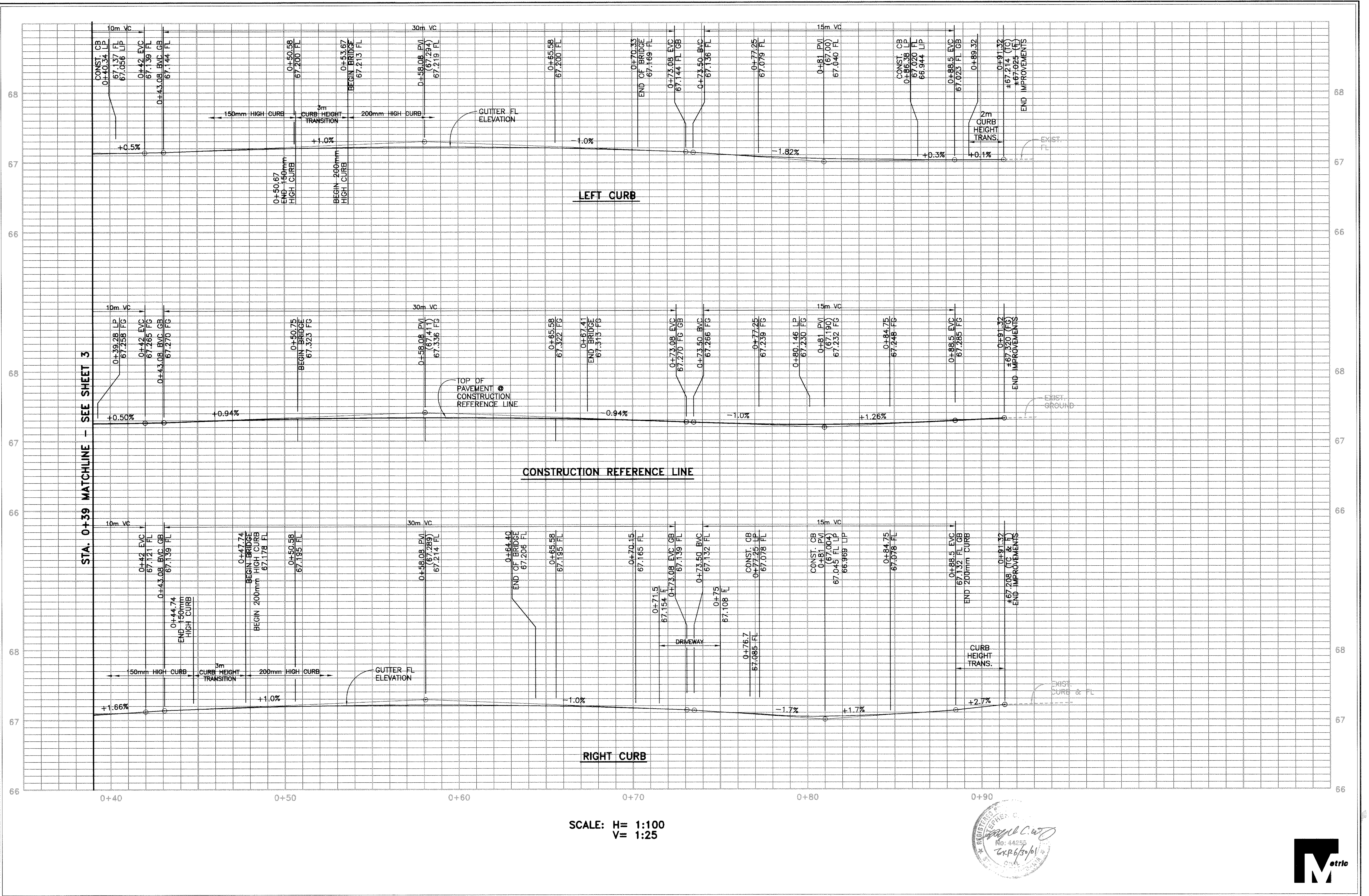
9344

FILE NO./LOCATION

0032 B

SHEET

4 OF 19



city of san luis obispo

**SANTA ROSA STREET
BRIDGE REPLACEMENT PROJECT**

APPROVED BY

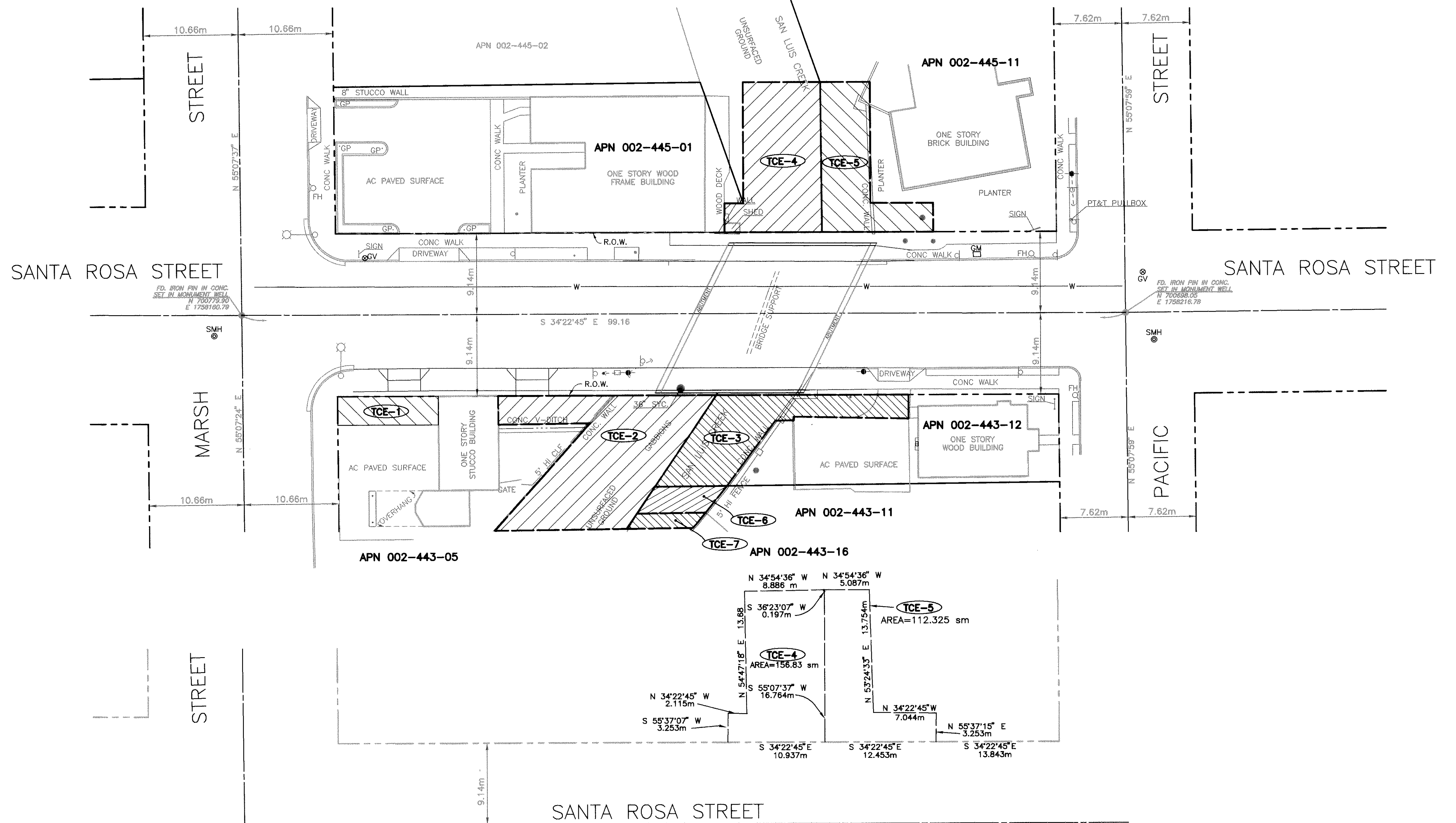
CITY ENGINEER

DATE 12/30/98
SCALE 1:100
DESIGNED BY SCW
DRAWN BY KEH
CHECKED BY
APPROVED BY

**STREET IMPROVEMENT PLAN
PROFILES**

SPECIFICATION NO.
9344
FILE NO./LOCATION
0092.8
SHEET
5 OF 19

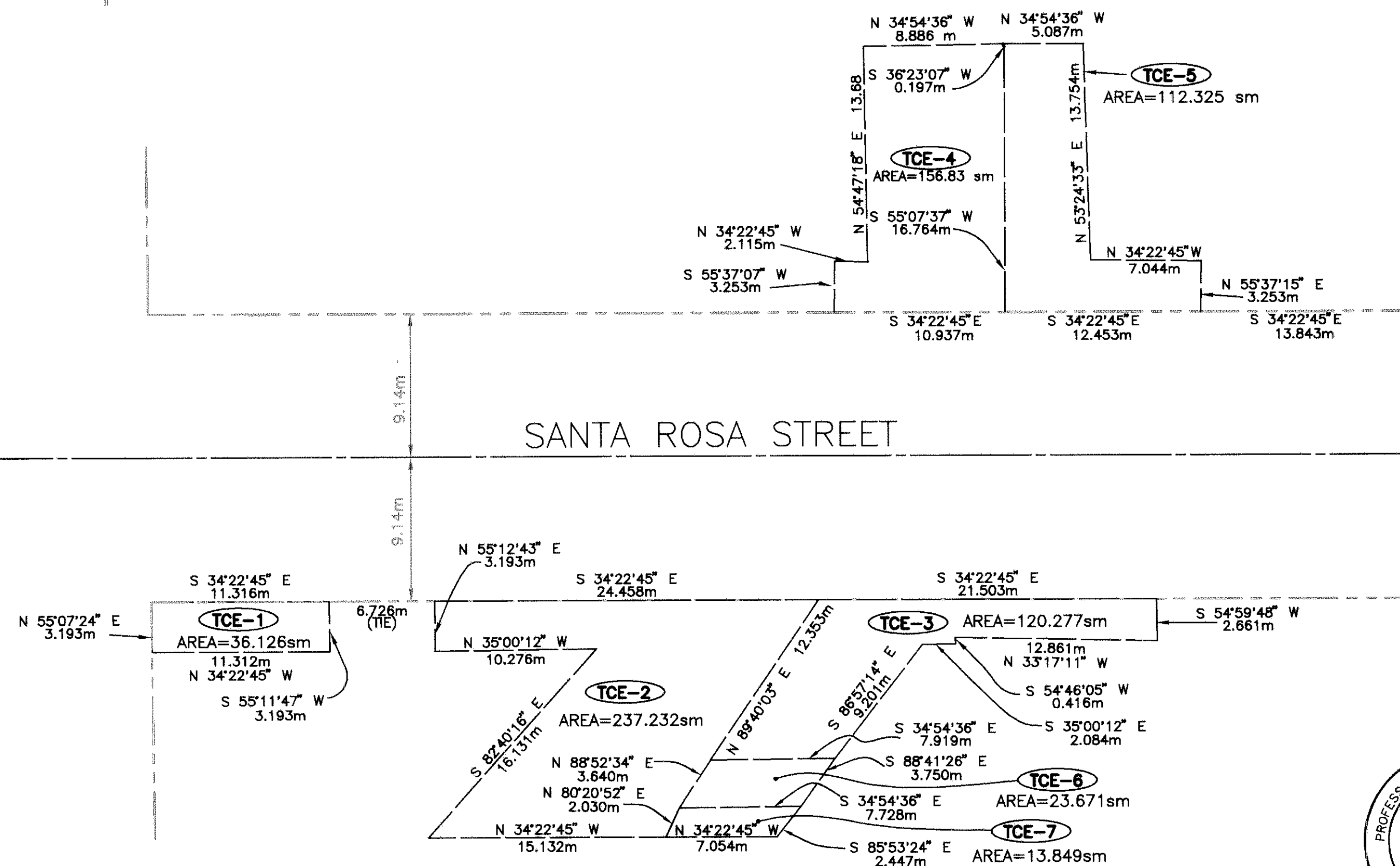




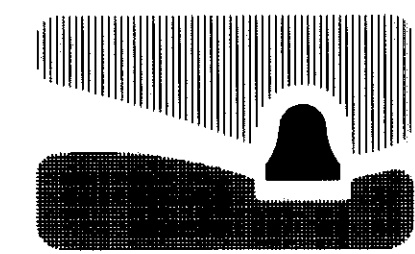
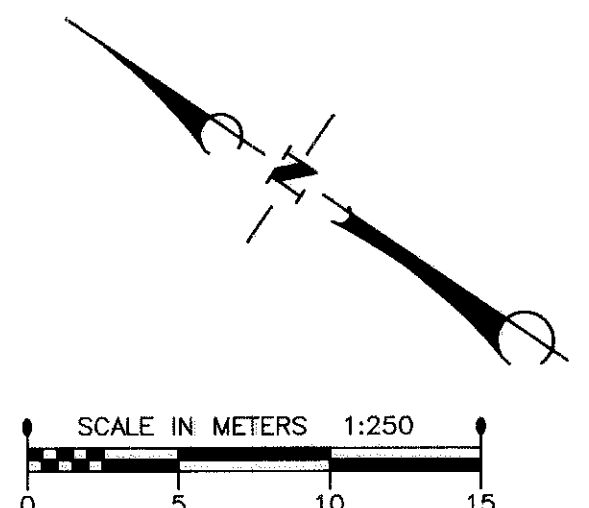
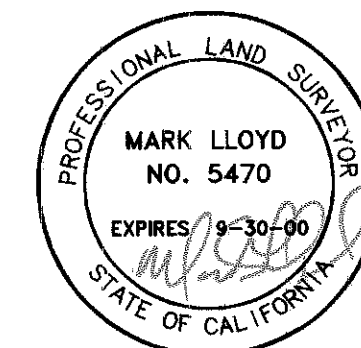
LEGEND

TCE-X TEMPORARY CONSTRUCTION EASEMENT

TCE NO.	APN	AREA
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2	002-443-05	237.232sm
3	002-443-12	120.277sm
4	002-445-01	156.83 sm
5	002-445-11	112.325sm
6	002-443-11	23.671sm
7	002-443-16	13.849sm



TEMPORARY CONSTRUCTION EASEMENT CALCULATIONS



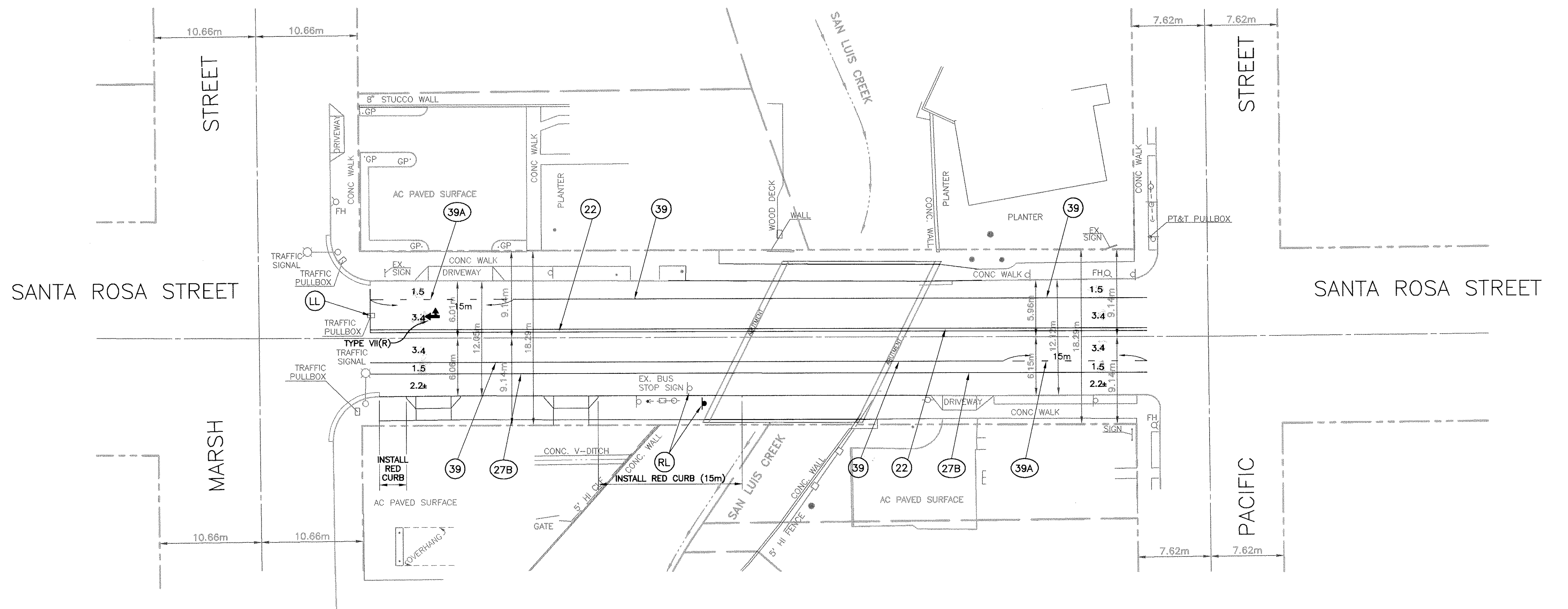
city of san luis obispo

SANTA ROSA STREET BRIDGE REPLACEMENT PROJECT

APPROVED BY	DATE 12/30/98
CITY ENGINEER	SCALE 1:250
	DESIGNED BY
	DRAWN BY CWW
	CHECKED BY MHL
	APPROVED BY

TEMPORARY CONSTRUCTION EASEMENT

SPECIFICATION NO.	9344
FILE NO./LOCATION	0092 B
SHEET	6 OF 19

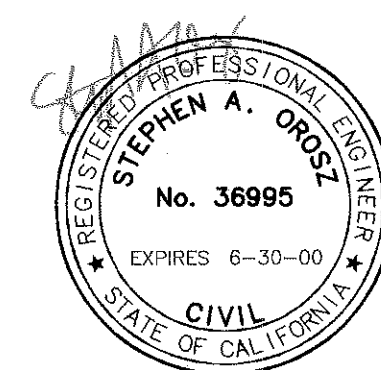
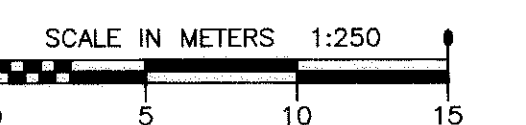
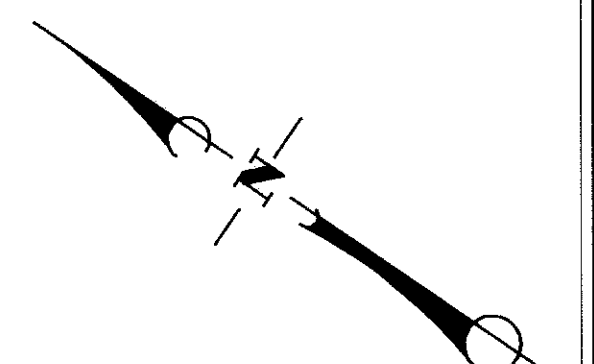


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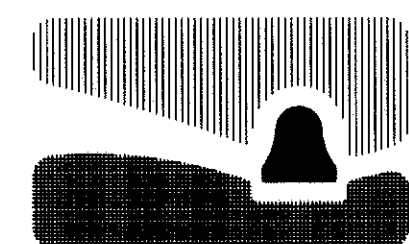
- ◻ EXISTING SIGN
- ▮ NEW SIGN, ON NEW POST UNLESS OTHERWISE NOTED
- Ⓡ RELOCATE EXIST. SIGN BEHIND NEW CURB
- ⓧ INSTALL PAVEMENT MARKINGS AND TRAFFIC LINES NOTED PER DETAIL ON STATE STANDARD PLANS A20A, A20B, A20C & A20D
- ➔ INSTALL PAVEMENT ARROW SHOWN PER DETAIL ON STATE STANDARD PLANS A24A TYPE VII(R)
- Ⓛ INSTALL 300mm SOLID WHITE LIMIT LINE PER DETAIL ON STATE STANDARD PLAN A24E

GENERAL NOTES

1. ALL PAVEMENT MARKINGS SHALL THERMOPLASTIC.
2. ALL PAVEMENT MARKINGS AND SIGNS SHALL BE INSTALLED PER THE STATE STANDARD SPECIFICATIONS, DATED JULY, 1995, STATE STANDARD DETAILS, DATED JULY, 1995 AND CITY ENGINEERING STANDARDS DATED JULY 1997 (OR AS MOST RECENTLY REVISED).



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN



city of san luis obispo

**SANTA ROSA STREET
BRIDGE REPLACEMENT PROJECT**

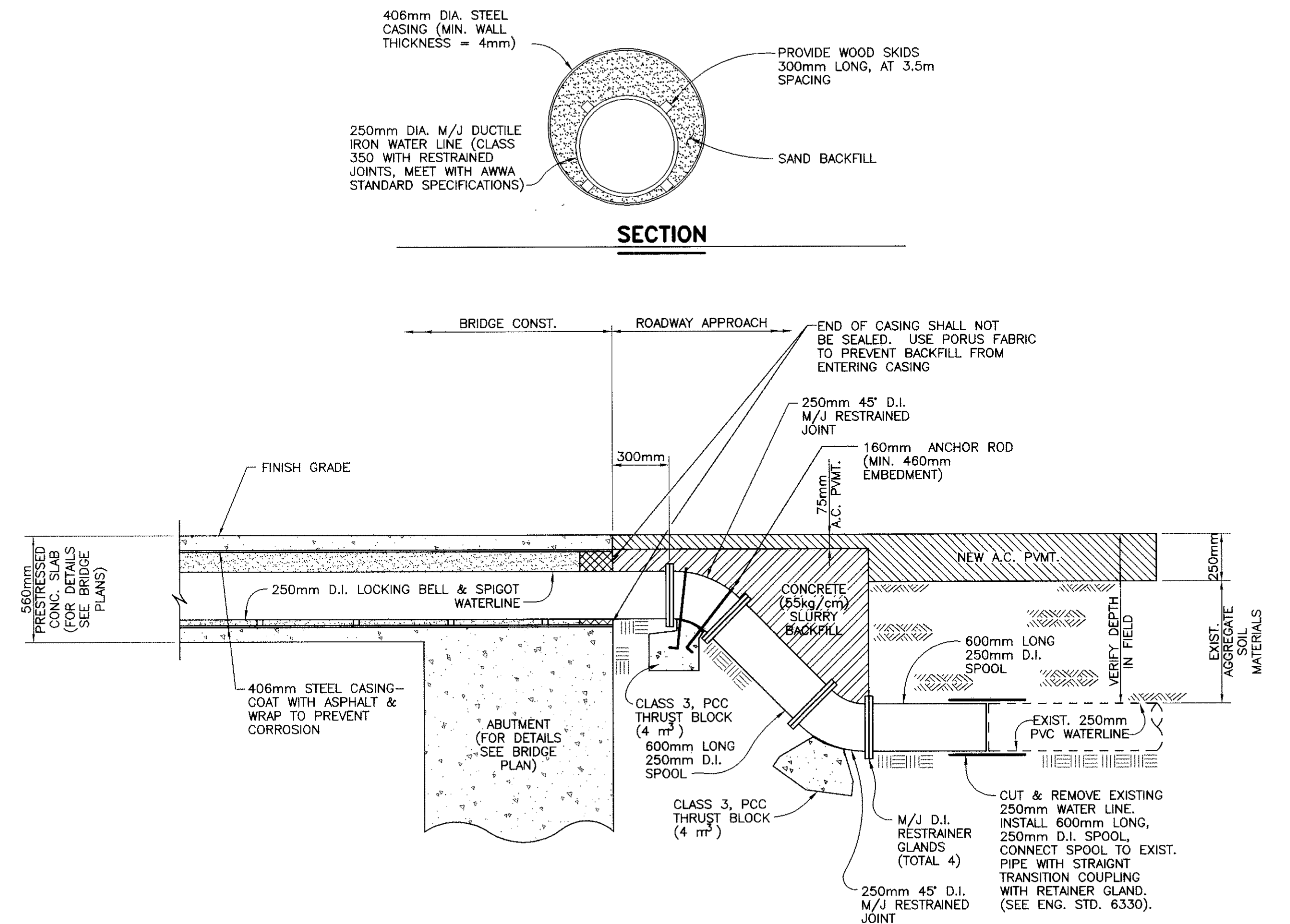
APPROVED BY

CITY ENGINEER

DATE 12/30/98
SCALE 1:250
DESIGNED BY KEH/SAO
DRAWN BY KEH
CHECKED BY SAO
APPROVED BY

**SIGNING & STRIPING PLAN
SANTA ROSA STREET
FROM PACIFIC STREET
TO MARSH STREET**

SPECIFICATION NO.
9344
FILE NO./LOCATION
0032 B
SHEET
7 OF 19



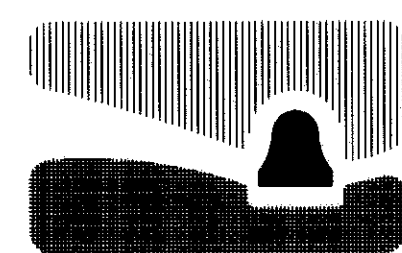
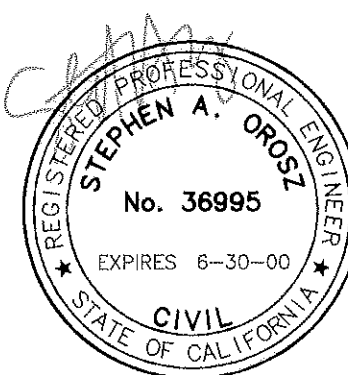
WATER PIPE AND STEEL PIPE CASING DETAIL - SAME BOTH SIDES OF DECK

N.T.S.

A
9



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN



city of san luis obispo

**SANTA ROSA STREET
BRIDGE REPLACEMENT PLAN**

APPROVED BY

CITY ENGINEER

DATE 12/30/98 5/5/99
SCALE 1:200
DESIGNED BY SAO/SCW
DRAWN BY KEH
CHECKED BY
APPROVED BY
UTILITIES DEPARTMENT

DETAILS

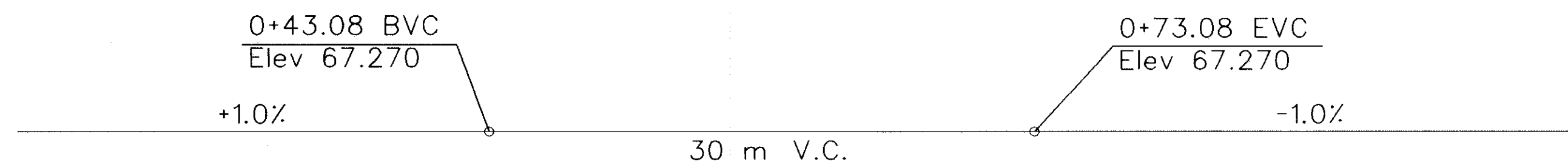
SPECIFICATION NO.

9344

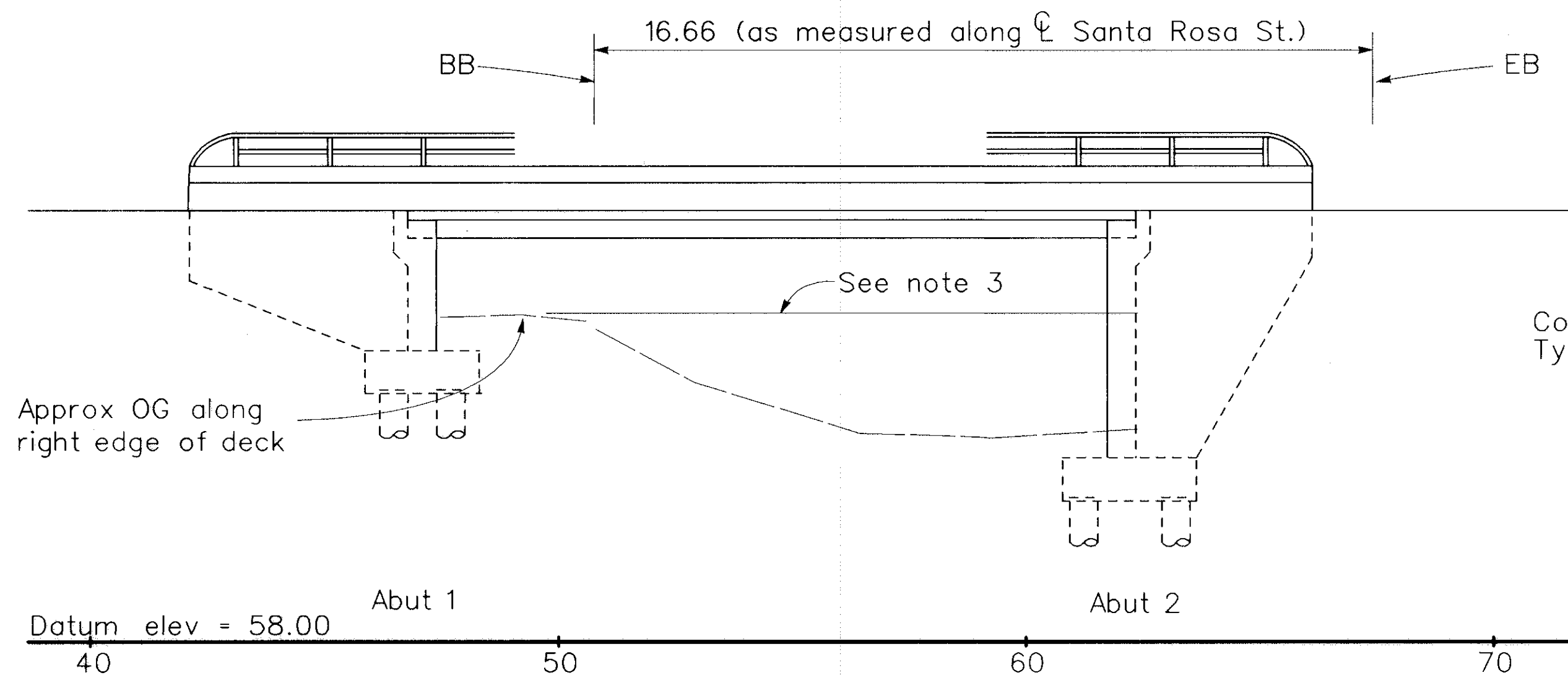
FILE NO./LOCATION
0032 B

SHEET

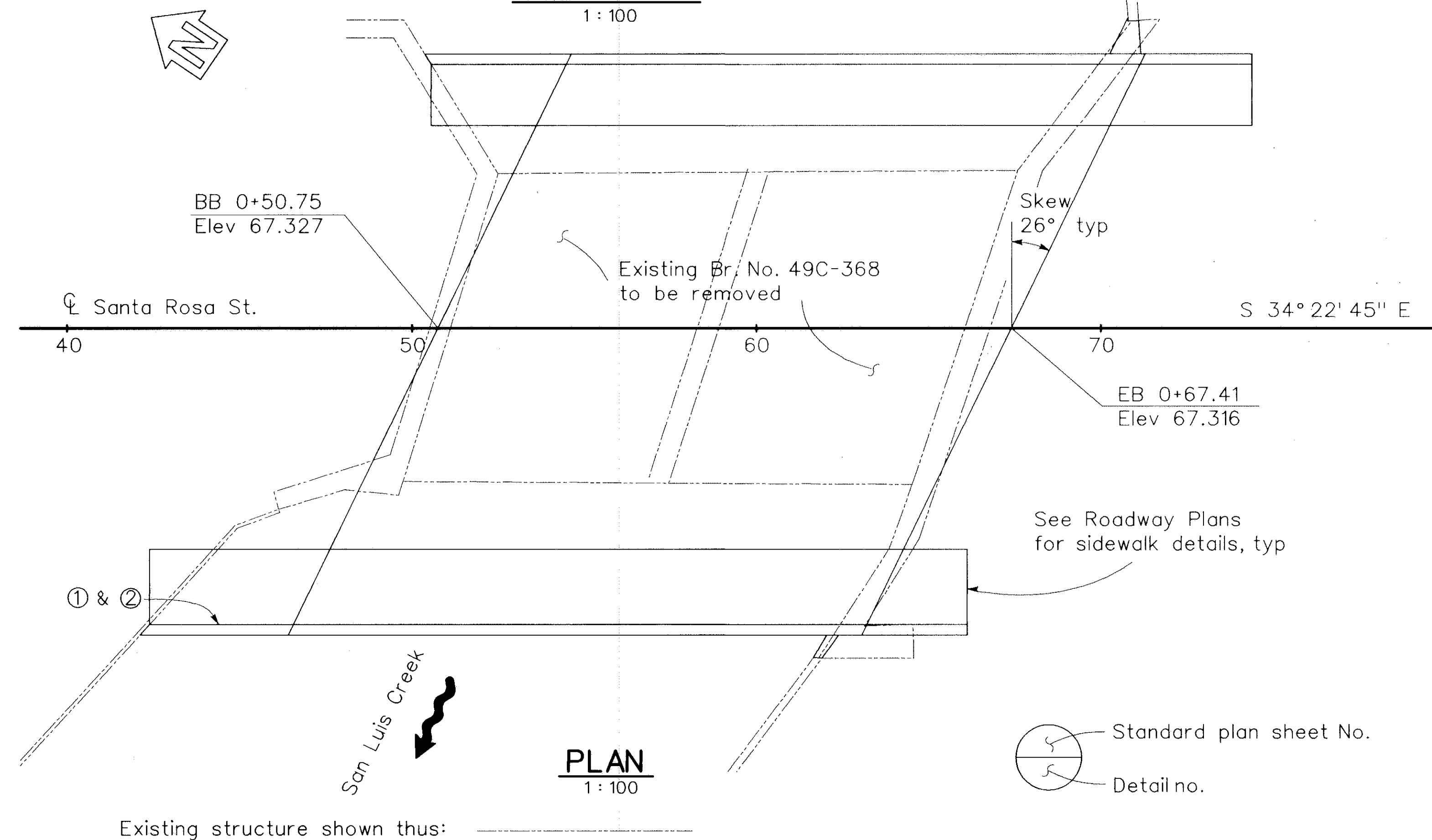
9 OF 19



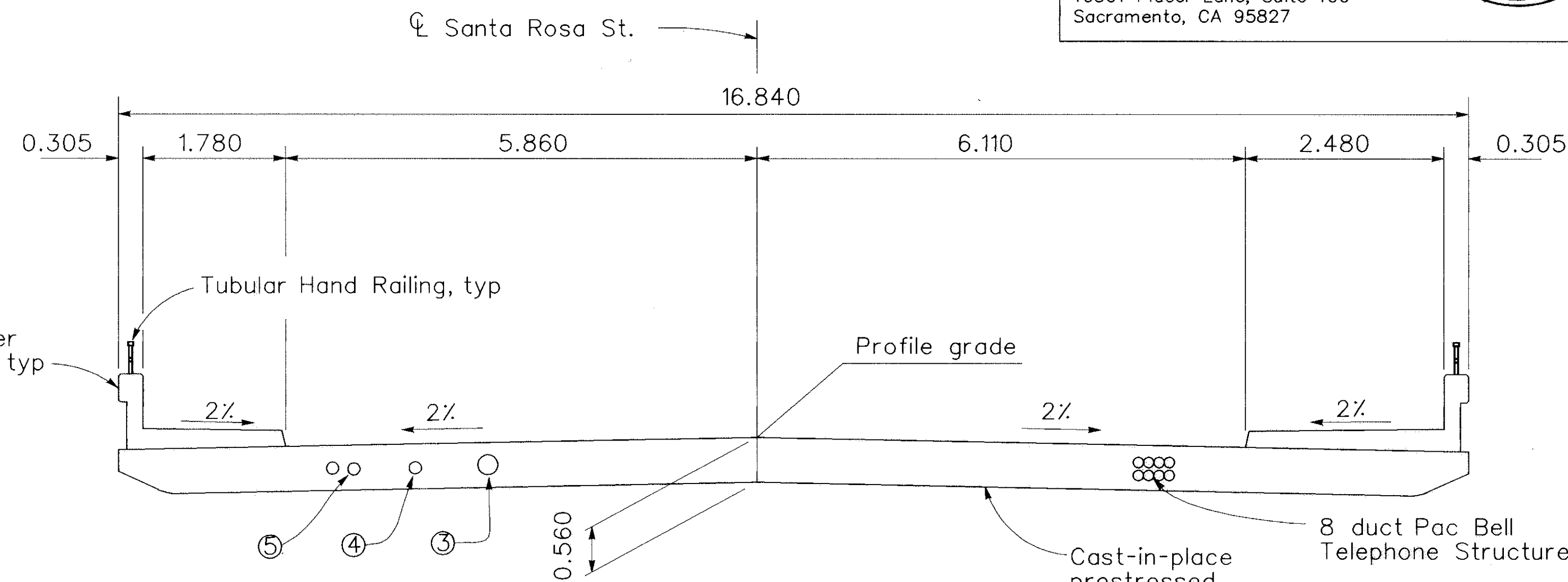
PROFILE GRADE
No scale



ELEVATION
1:100



PLAN
1:100



TYPICAL SECTION
1:50

PILE DATA - 600 mm CIDH CONCRETE PILE

Location	Design Loading (Service)	Nominal Resistance		Design Tip Elevation	Specified Tip Elevation
		Compression	Tension		
Abut 1	625 kN	1250 kN	-----	53.00	53.00
Abut 2	625 kN	1250 kN	-----	53.00	53.00

Legend:

- ① Paint Bridge Number (49C0368)
- ② Paint Bridge Name
- ③ City of San Luis Obispo Water Dept.
- 406mm dia casing
- ④ City of San Luis Obispo Fiber Optic
- 100mm dia casing
- ⑤ Southern California Gas Company
- 2 - 250mm dia casings

Note:

- All dimensions are in meters (m), except as noted.
- The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.
- For General Notes, and Hydrologic Summary, see "Foundation Plan" sheet
- For Quantities, see "Deck Contour" sheet

INDEX TO PLANS

Sheet No.	Title
10	General Plan
11	Deck Contours
12	Foundation Plan
13	Abutment 1 Layout
14	Abutment 2 Layout
15	Abutment Details
16	Sill Structure
17	Typical Section
18	Slab Reinforcement
19	Log of Test Borings

STANDARD PLANS DATED JULY 1995

A10A	ABBREVIATIONS
A10B	SYMBOLS
A62-C	EXCAVATION AND BACKFILL-BRIDGE
BO-1	BRIDGE DETAILS
BO-3	BRIDGE DETAILS
BO-13	BRIDGE DETAILS
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 50mm)
B7-10	UTILITY OPENING BOX GIRDER
B8-5	CAST-IN-PLACE PRESTRESSED GIRDER DETAILS
B11-51	TUBULAR HAND RAILING
B11-54	CONCRETE BARRIER TYPE 26



SANTA ROSA STREET
BRIDGE REPLACEMENT PROJECT
BRIDGE NO. 49C0368

APPROVED BY

CITY ENGINEER

DATE	10/1/98
SCALE	Var
DESIGNED BY	D. Morgan
DRAWN BY	G. Bangs
CHECKED BY	B. Katuna
APPROVED BY	

**SAN LUIS CREEK BRIDGE
GENERAL PLAN**

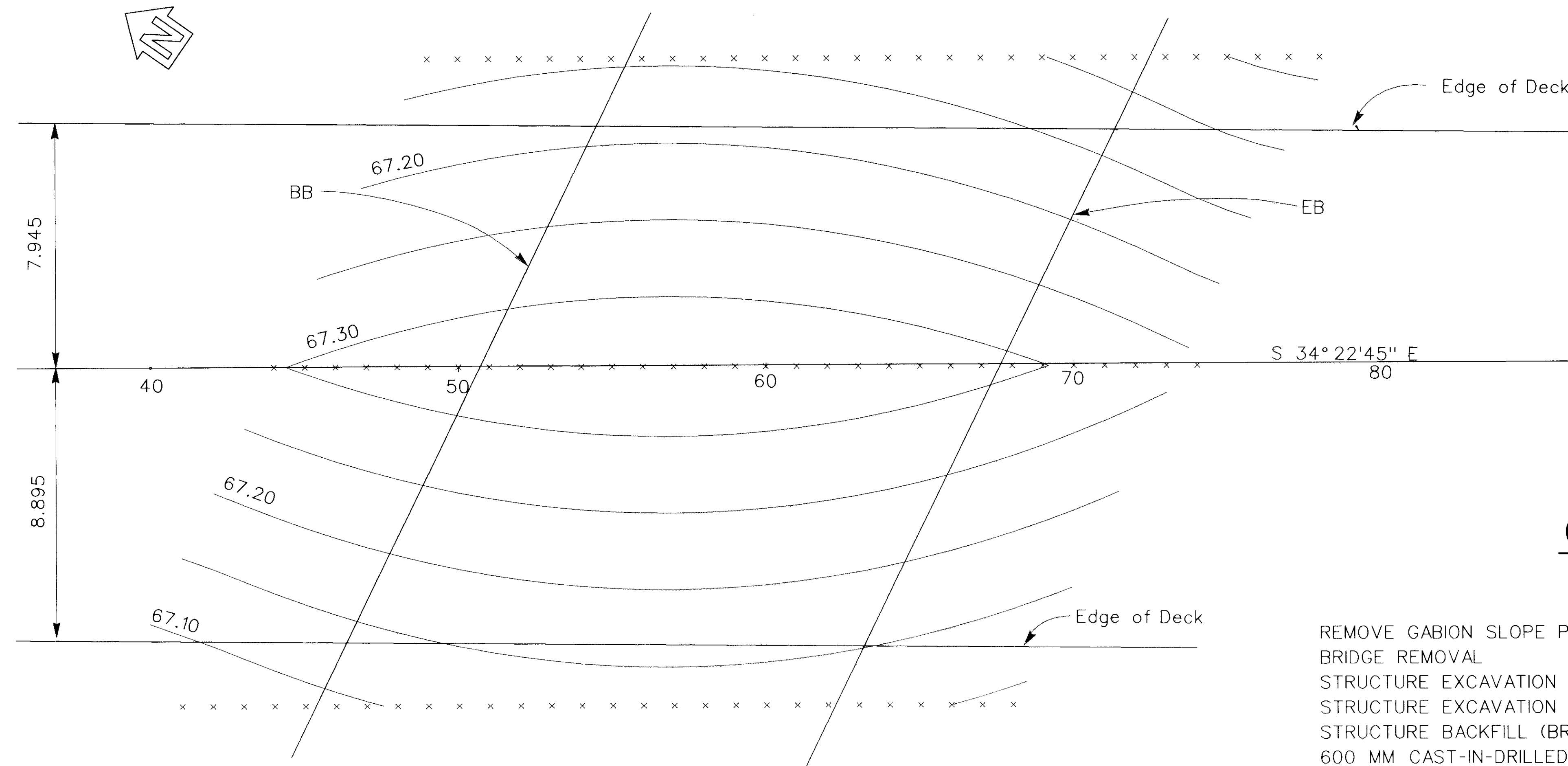
SPECIFICATION NO.	9344
FILE NO./LOCATION	0032 B
SHEET	10

s018agp.dgn Rev 11 dbm 4/30/99

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

Quincy Engineering, Inc.
10301 Placer Lane, Suite 100
Sacramento, CA 95827



DECK CONTOURS

1 : 100

Notes:

- All dimensions are in meters (m), except as noted.
- Contour intervals 0.05.
- The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

QUANTITIES

REMOVE GABION SLOPE PROTECTION	44 M3
BRIDGE REMOVAL	LS
STRUCTURE EXCAVATION (BRIDGE)	225 M3
STRUCTURE EXCAVATION (TYPE D)	340 M3
STRUCTURE BACKFILL (BRIDGE)	325 M3
600 MM CAST-IN-DRILLED-HOLE CONCRETE PILING	301 M
STEEL SHEET PILING	178 M2
PRESTRESSING CAST-IN-PLACE CONCRETE	LS
STRUCTURAL CONCRETE, BRIDGE FOOTING	101 M3
STRUCTURAL CONCRETE, BRIDGE	270 M3
MINOR CONCRETE (SILL STRUCTURE)	24 M3
JOINT SEAL (TYPE 15MM)	35 M
BAR REINFORCING STEEL (BRIDGE)	49500 KG
ROCK SLOPE PROTECTION (LIGHT, METHOD B)	57 M3
ROCK SLOPE PROTECTION FABRIC	187 M2
100MM WELDED STEEL PIPE CASING	177 M
205MM WELDED STEEL PIPE CASING	39 M
406MM WELDED STEEL PIPE CASING	29 M
TUBULAR HAND RAILING	48 M
CONCRETE BARRIER (TYPE 26 MODIFIED)	48 M

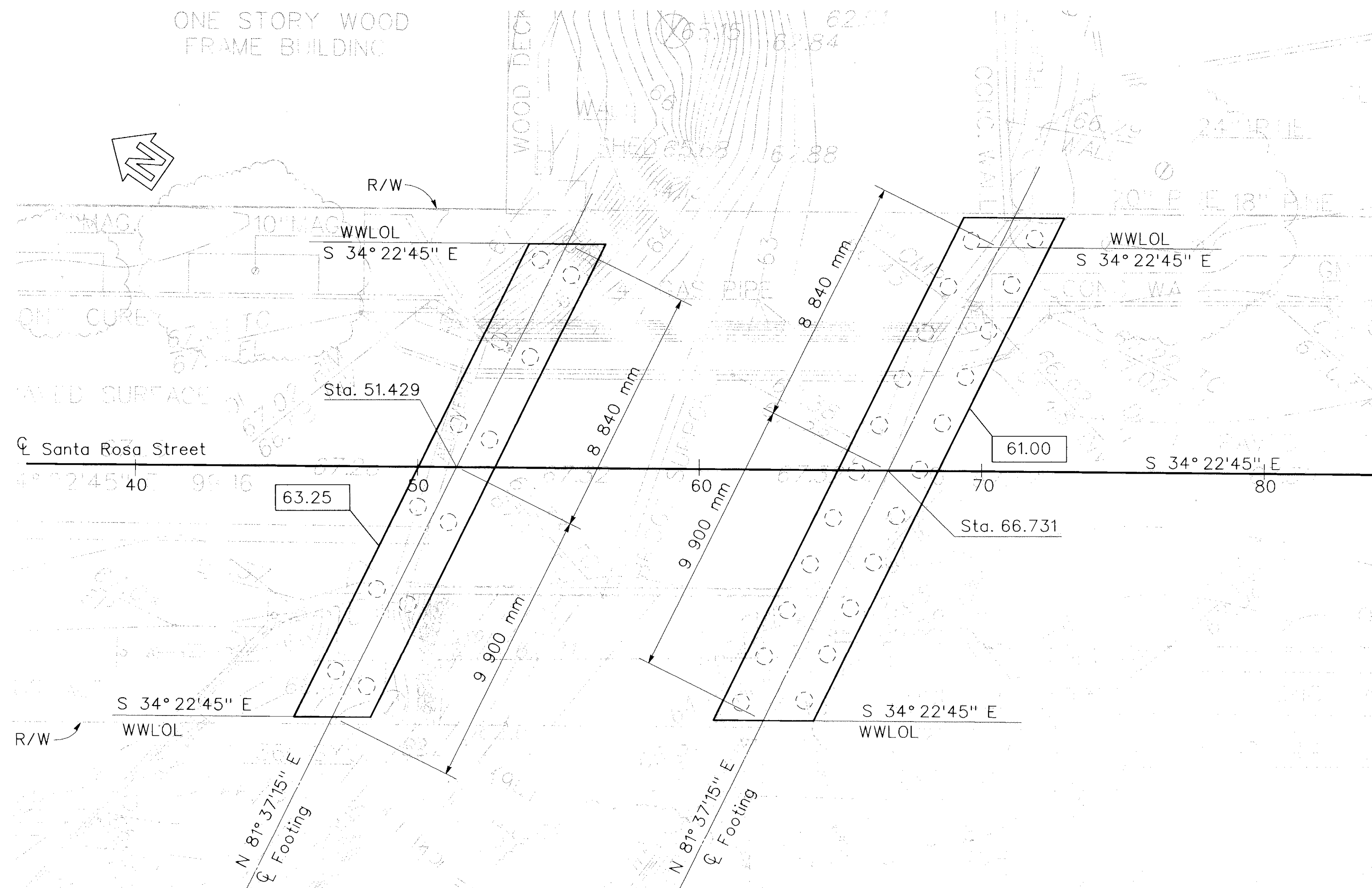
Structure Excavation (Type D) at Abutment 2



s018adc.dgn Rev 06 dbm 11/27/98

SPECIFICATION NO.	9344
FILE NO./LOCATION	0032 B
SHEET	11

APPROVED BY	DATE 10/1/98
CITY ENGINEER	SCALE
	DESIGNED BY D. Morgan
	DRAWN BY G. Bangs
	CHECKED BY B. Katuna
	APPROVED BY



SMel

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

Quincy Engineering, Inc.
10301 Placer Lane, Suite 100
Sacramento, CA 95827

PROFESSIONAL ENGINEER

Steven L. Mellon

No. 35115

Exp. 9-30-99

CIVIL

STATE OF CALIFORNIA

GENERAL NOTES LOAD FACTOR DESIGN

- DESIGN: BRIDGE DESIGN SPECIFICATIONS
(1983 AASHTO with Interims and Revisions by CALTRANS)
- DEAD LOAD: Includes 1.68 kPa for future wearing surface.
- LIVE LOADING: HS20-44 and alternative and permit design load.
- SEISMIC LOADING: Peak Rock Acceleration = 0.6 g
Depth of Alluvium = 3 - 24m
- REINFORCED CONCRETE: $f_y = 414$ MPa
 $f'_c = 28$ MPa
 $n = 8$
Transverse deck slabs (Working Stress Design)
 $f_s = 138$ MPa
 $f_c = 8$ MPa
 $n = 10$
- PRESTRESSED CONCRETE: See 'Prestressing Notes' on "Typical Section" sheet.

BENCH MARKS

- BM #5-164
L&T at the B.C.R. at N.E.C. of Higuera & Santa Rosa Elev. 67.891
- BM #5-4
L&T, 0.46 ± East of B.C.R. by catch basin at the S.E.C. of Marsh and Toro Elev. 71.125

HYDROLOGIC SUMMARY

DRAINAGE AREA: 31.1 square kilometers

	DESIGN FLOOD	BASE FLOOD	OVERTOPPING FLOOD
FREQUENCY (Years)	45	100	45
DISCHARGE (Cubic meters per second)	145	221	145
WATER SURFACE (Elevation at bridge)	67.00	69.05	67.00

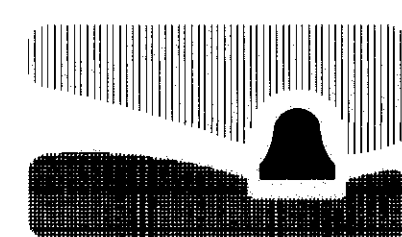
Flood plain data are based upon information available when the plans were prepared and are shown to meet Federal requirements. The accuracy of said information is not warranted by the State, County, City, or consultants and interested or affected parties should make their own investigations.

PLAN 1:100

Note:
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

61.00 Denotes bottom of footing elevation

Note :
All dimensions are in meters except as noted.



city of san luis obispo

SANTA ROSA STREET
BRIDGE REPLACEMENT PROJECT
BRIDGE NO. 49C0368

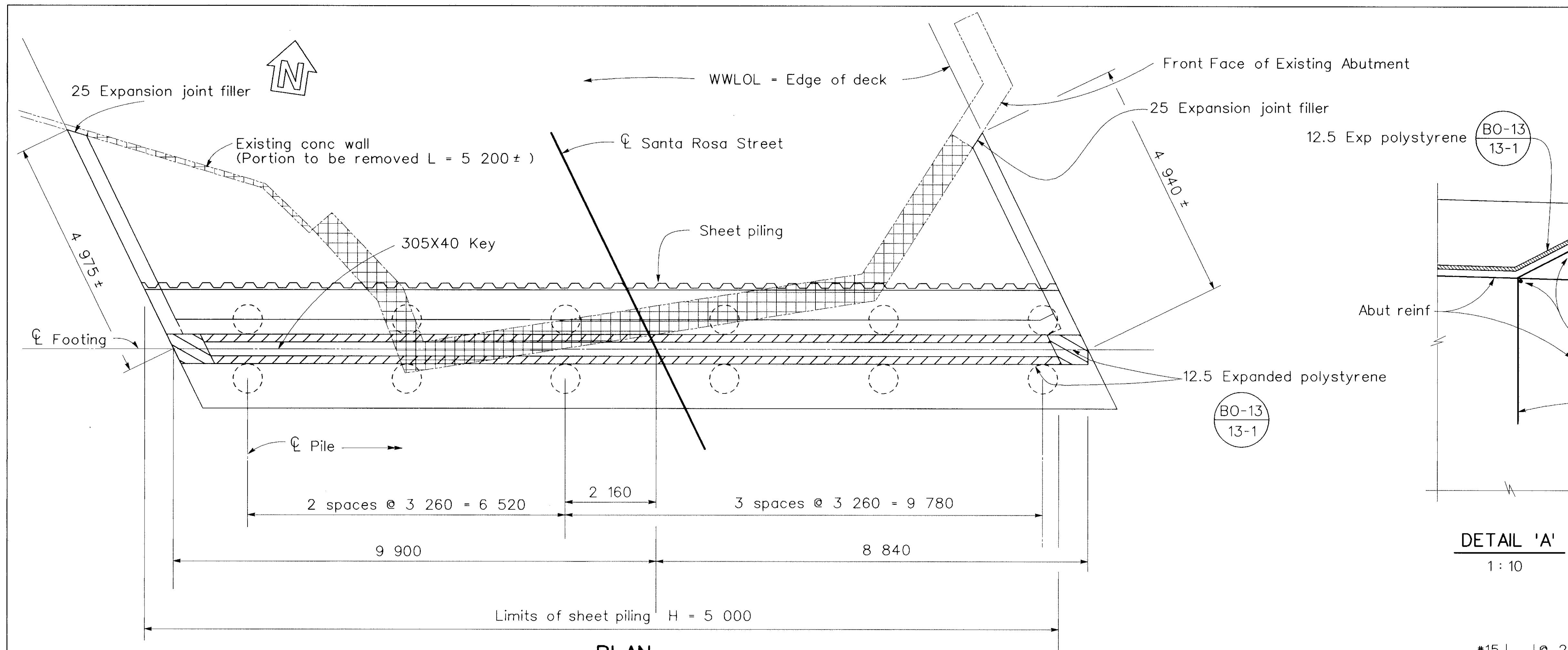
APPROVED BY

CITY ENGINEER

DATE 10/1/98
SCALE
DESIGNED BY D. Morgan
DRAWN BY G. Bangs
CHECKED BY B. Katuna
APPROVED BY

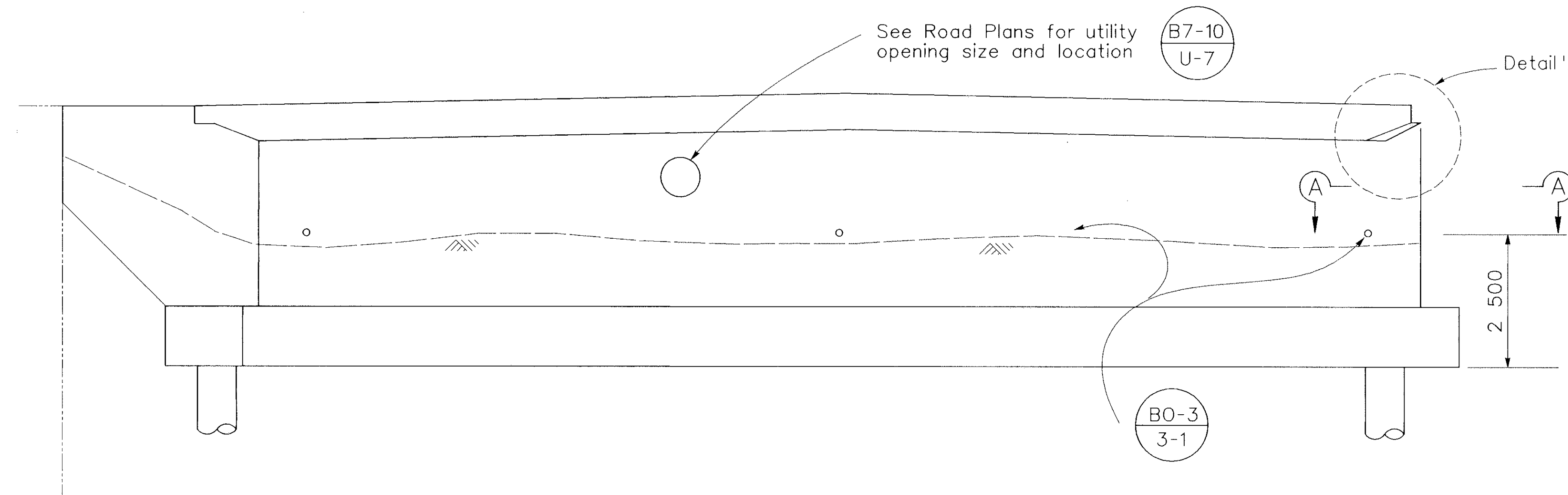
SAN LUIS CREEK BRIDGE
FOUNDATION PLAN

SPECIFICATION NO.
9344
FILE NO./LOCATION
002B
SHEET



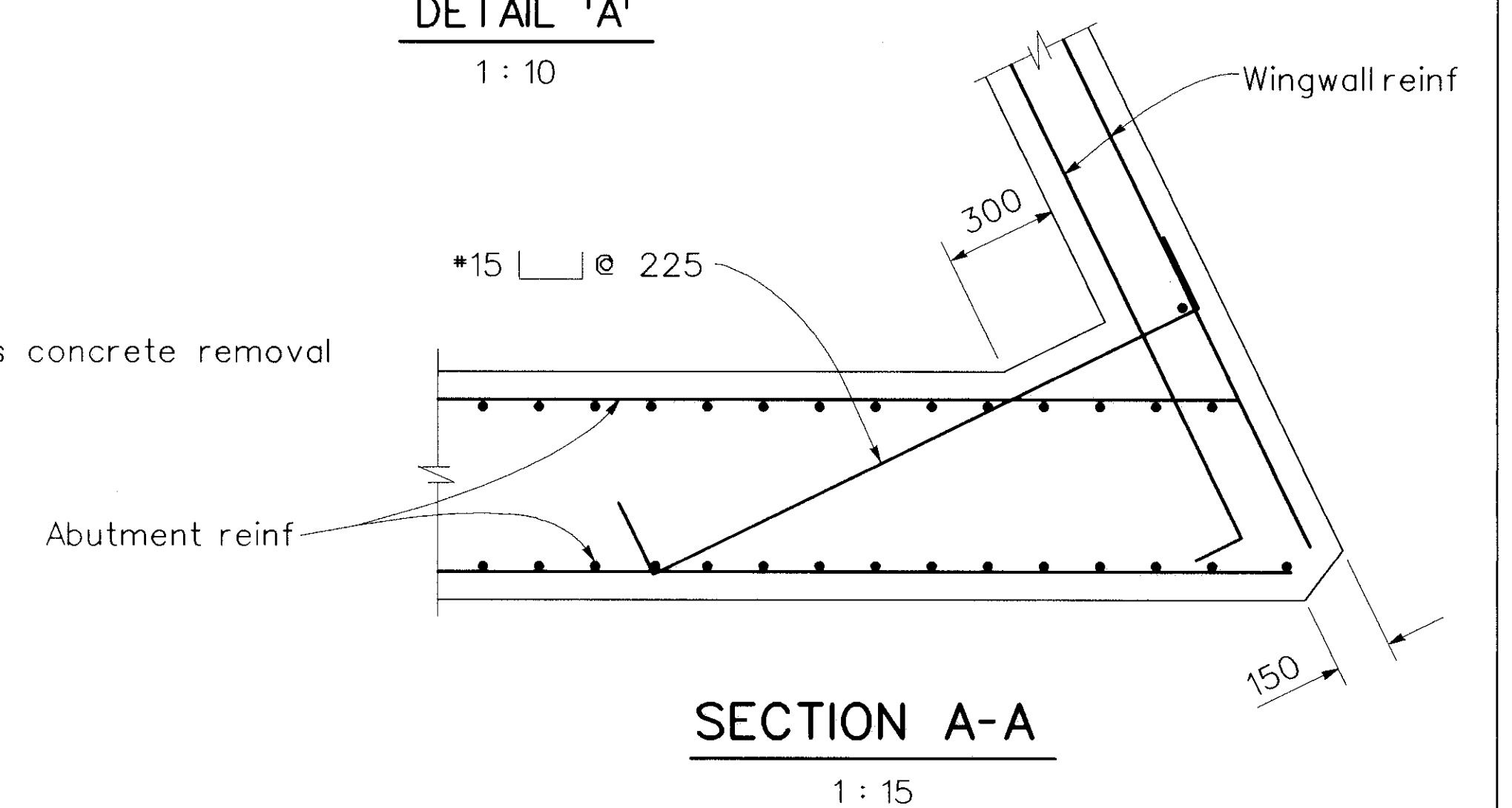
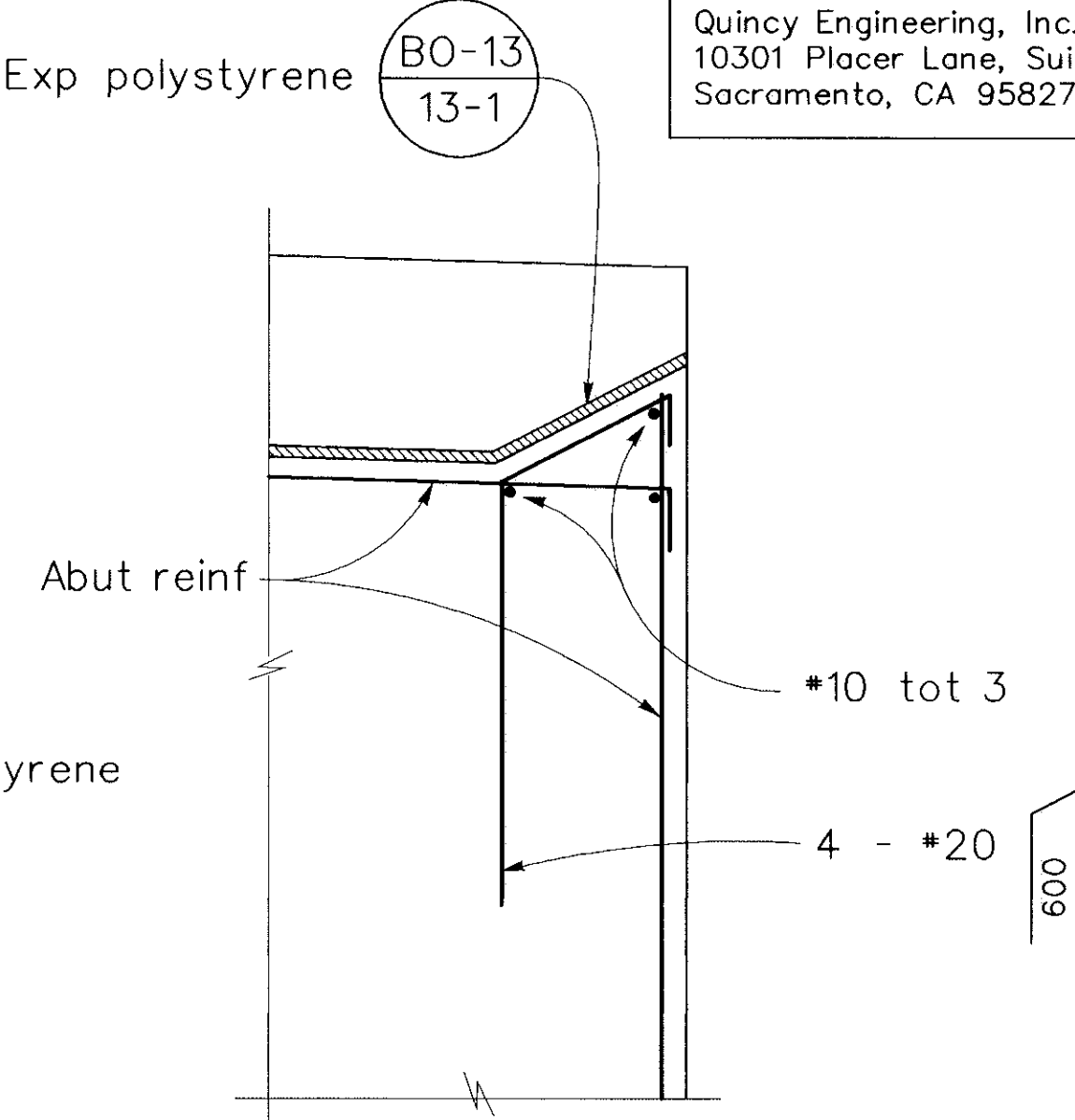
Note : Barrier Rail and Sidewalk not shown

PLAN
1: 50



Note : All piles not shown

ELEVATION
1: 50



Note :

1. All dimensions are in millimeters (mm) except as noted.
2. The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.
3. Existing structure shown thus
4. For details not shown see "Abutment Details" sheet.



REGISTERED CIVIL ENGINEER
Steven L. Mellon
No. 35115
Exp. 9-30-99
CIVIL
PLANS APPROVAL DATE
Quincy Engineering, Inc.
10301 Placer Lane, Suite 100
Sacramento, CA 95827



SANTA ROSA STREET
BRIDGE REPLACEMENT PROJECT
BRIDGE NO. 49C0368

APPROVED BY
CITY ENGINEER

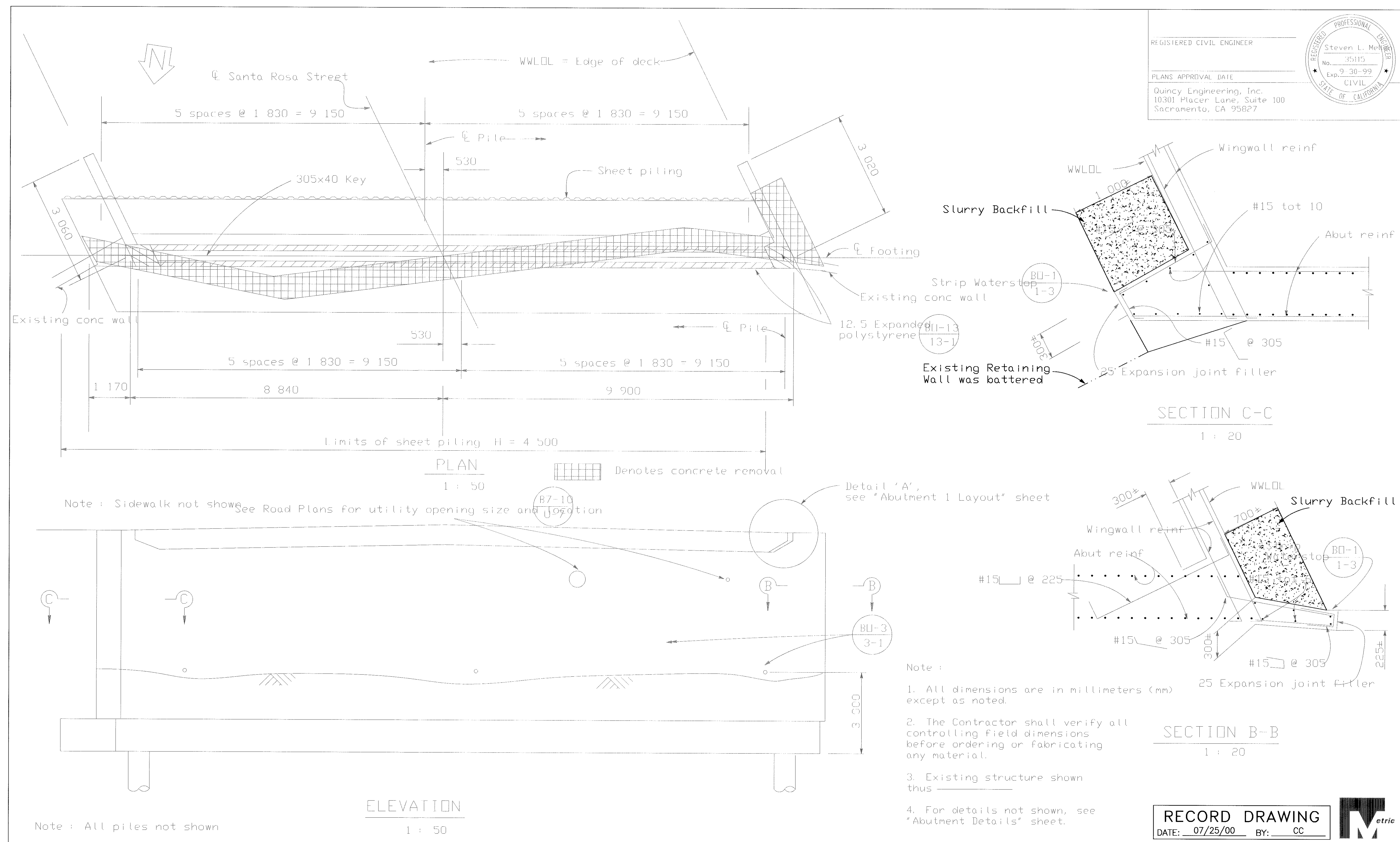
DATE 10/1/98
SCALE
DESIGNED BY D. Morgan
DRAWN BY G. Bangs
CHECKED BY B. Katuna
APPROVED BY

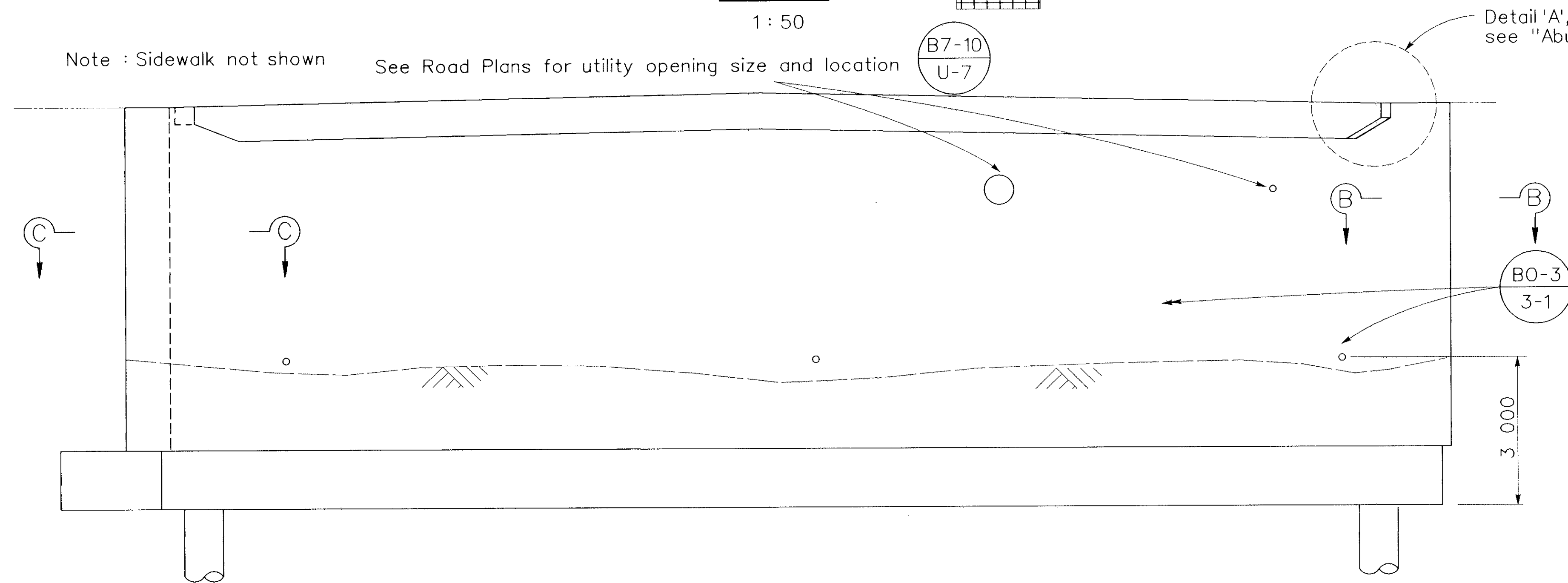
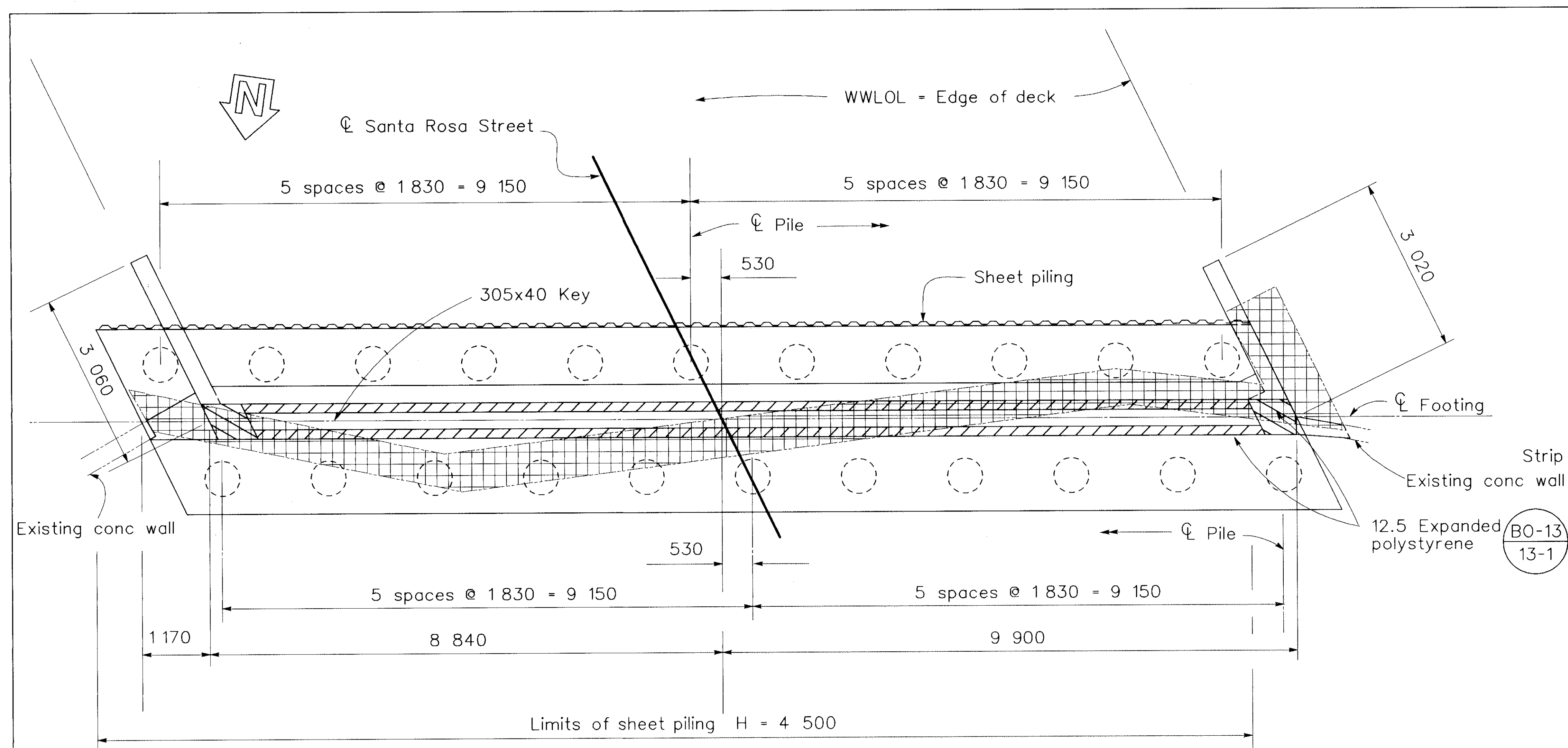
SAN LUIS CREEK BRIDGE
ABUTMENT 1 LAYOUT

SPECIFICATION NO.
9344
FILE NO./LOCATION
0034 B
SHEET

13

s018aait.dgn Rev 08 dbm 9/25/98





Note : All piles not shown

ELEVATION

1 : 50 .

PLAN

1 : 50

 Denotes concrete removal

Note : Sidewalk not shown See Road Plans for utility opening size and location

B7-10
U-7

Detail 'A',
see "Abutment 1 Layout" sheet

BO-3
3-1

Note :

1. All dimensions are in millimeters (mm) except as noted.

2. The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

3. Existing structure shown thus

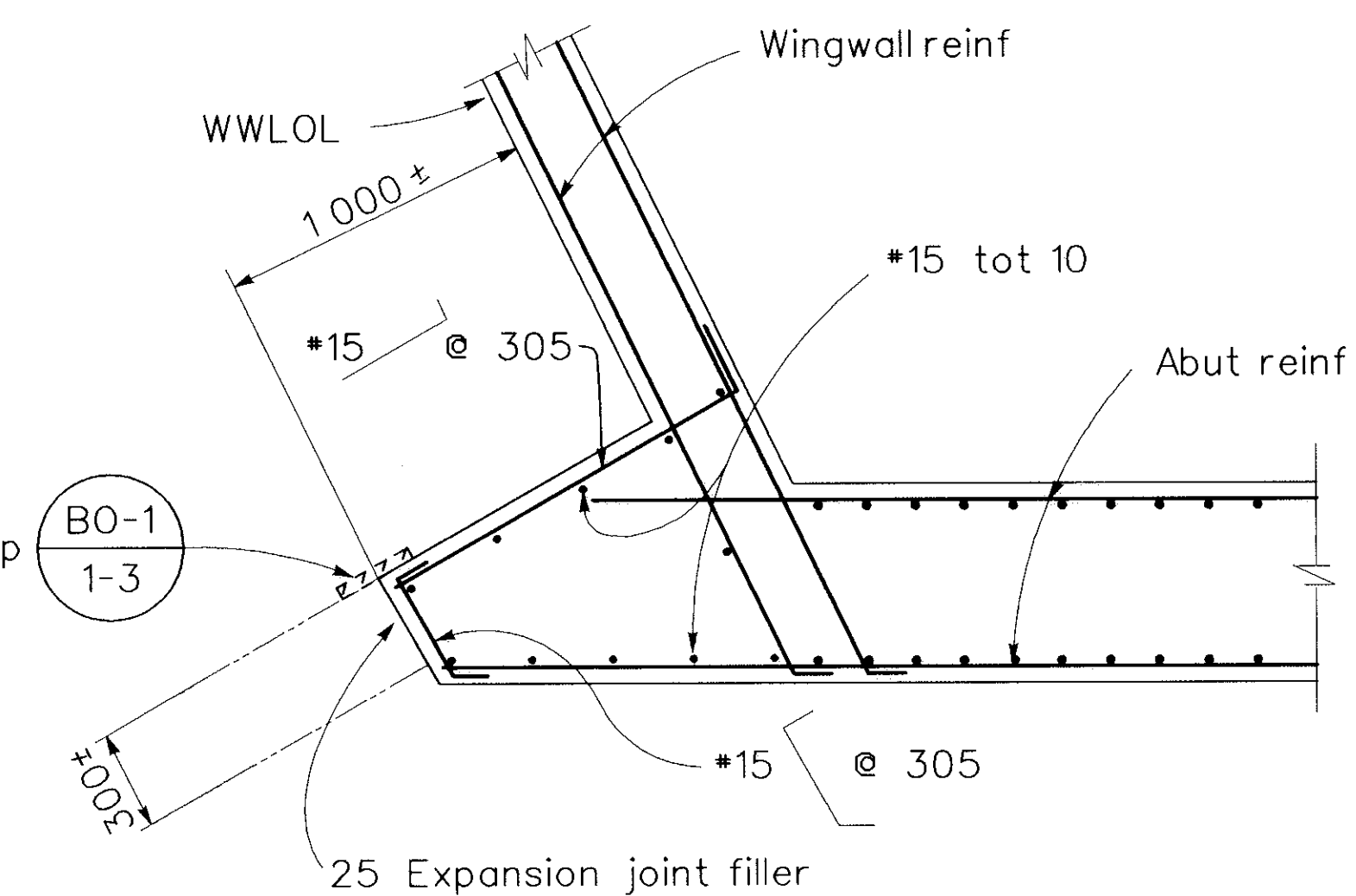
4. For details not shown, see "Abutment Details" sheet.

REGISTERED CIVIL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
Steven L. Mellon
No. 35115
Exp. 9-30-99
CIVIL
STATE OF CALIFORNIA

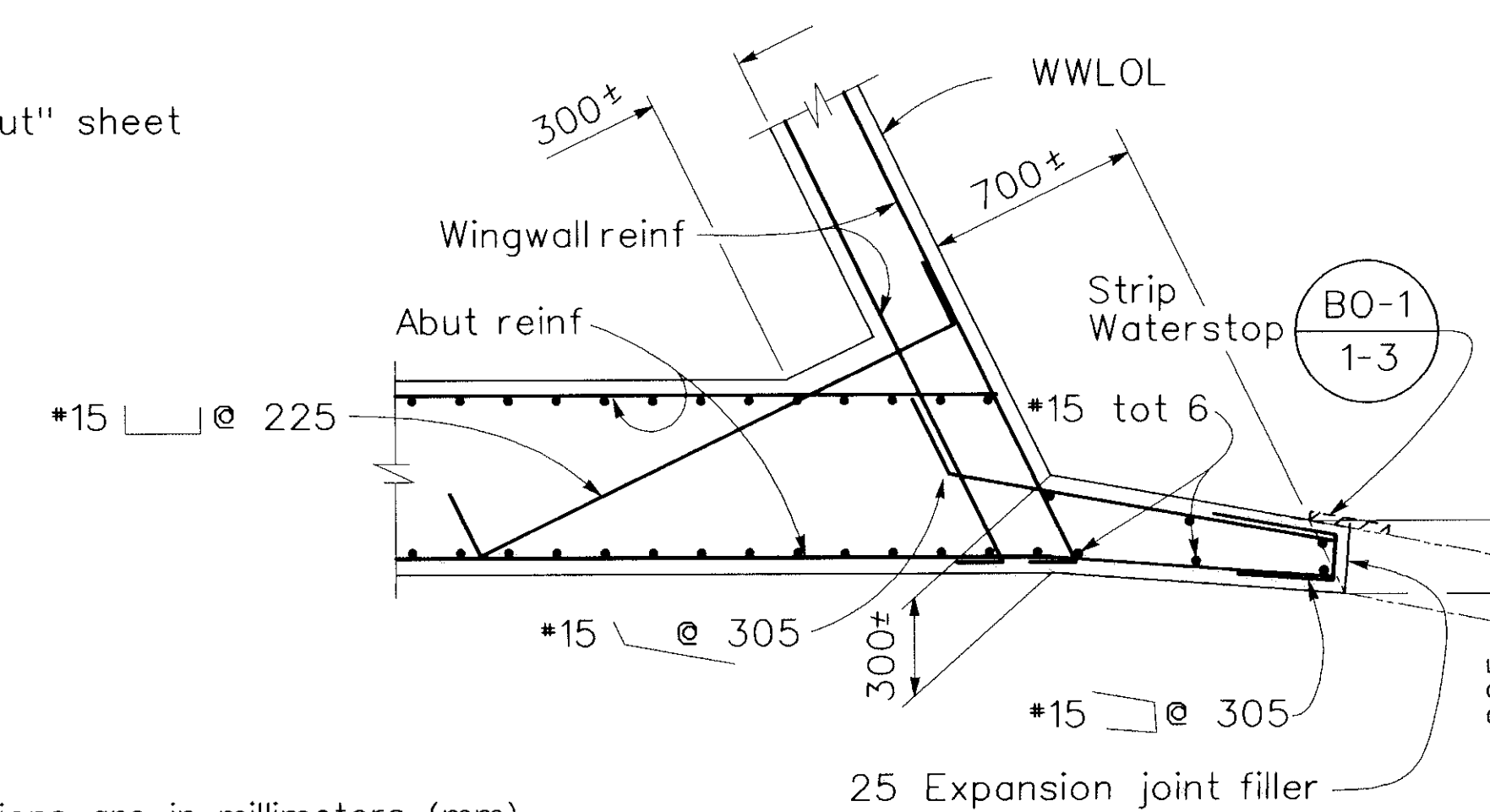
PLANS APPROVAL DATE

Quincy Engineering, Inc.
10301 Placer Lane, Suite 100
Sacramento, CA 95827



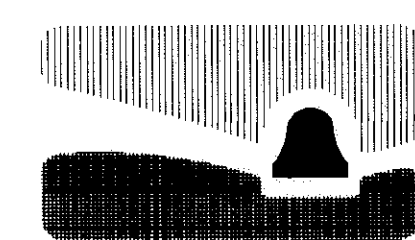
SECTION C-C

1 : 20



SECTION B-B

1 : 20



CITY OF SAN LUIS OBISPO

SANTA ROSA STREET
BRIDGE REPLACEMENT PROJECT
BRIDGE NO. 49C0368

APPROVED BY

CITY ENGINEER

DATE	10/1/98
------	---------

SCALE

DESIGNED BY D. Morgan

DRAWN BY	G. Bangs
CHECKED BY	B. Katuska

APPROVED BY

--	--

SAN LUIS CREEK BRIDGE
ABUTMENT 2 LAYOUT

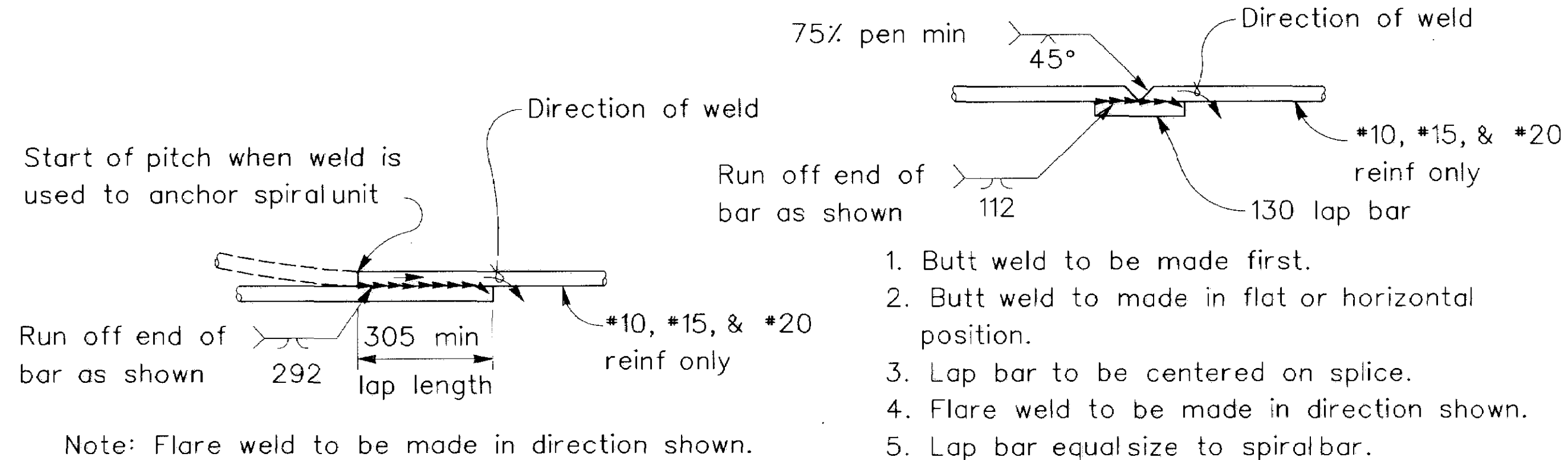
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9344

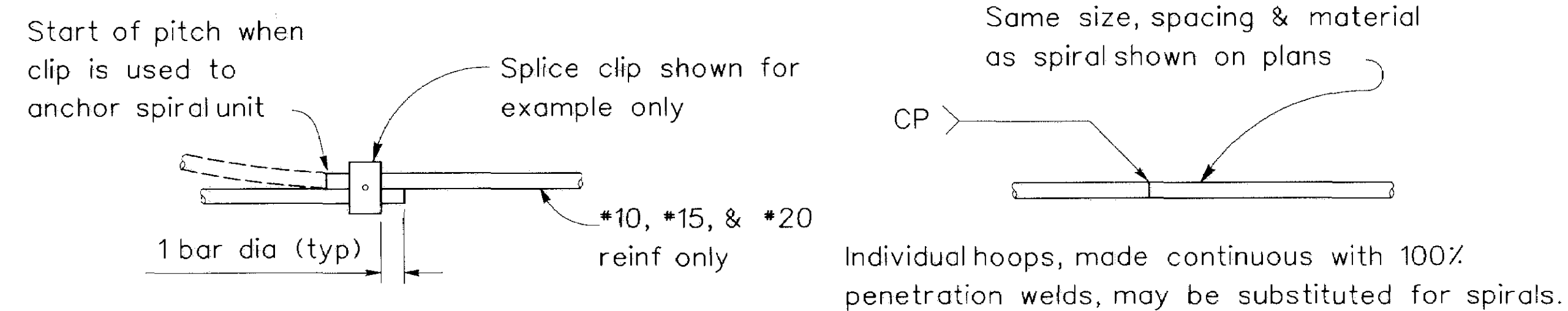
FILE NO./LOCATION

14

s018aal2.dgn Rev 09 dbm 9/25/98



WELDED LAP SPLICE AND ANCHOR

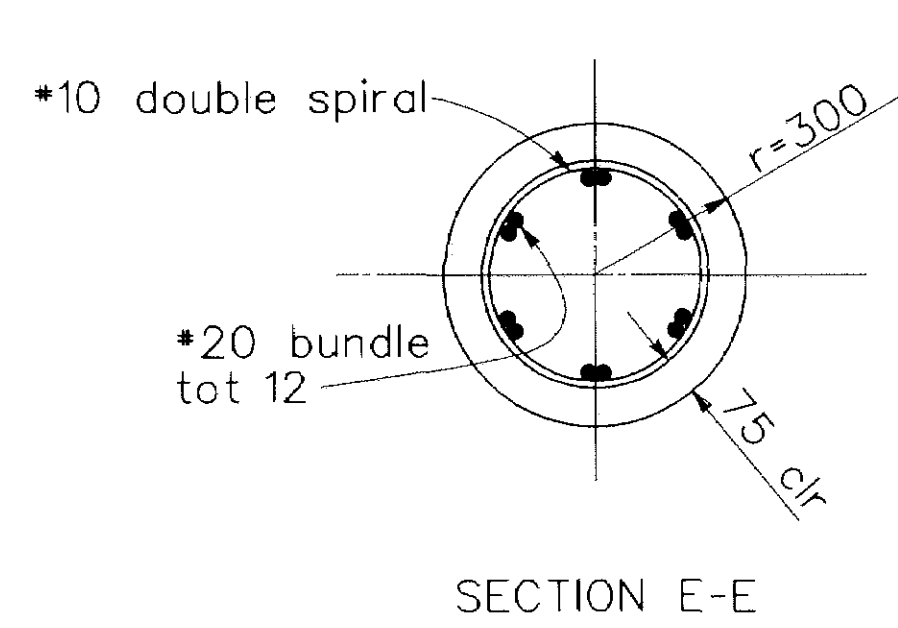
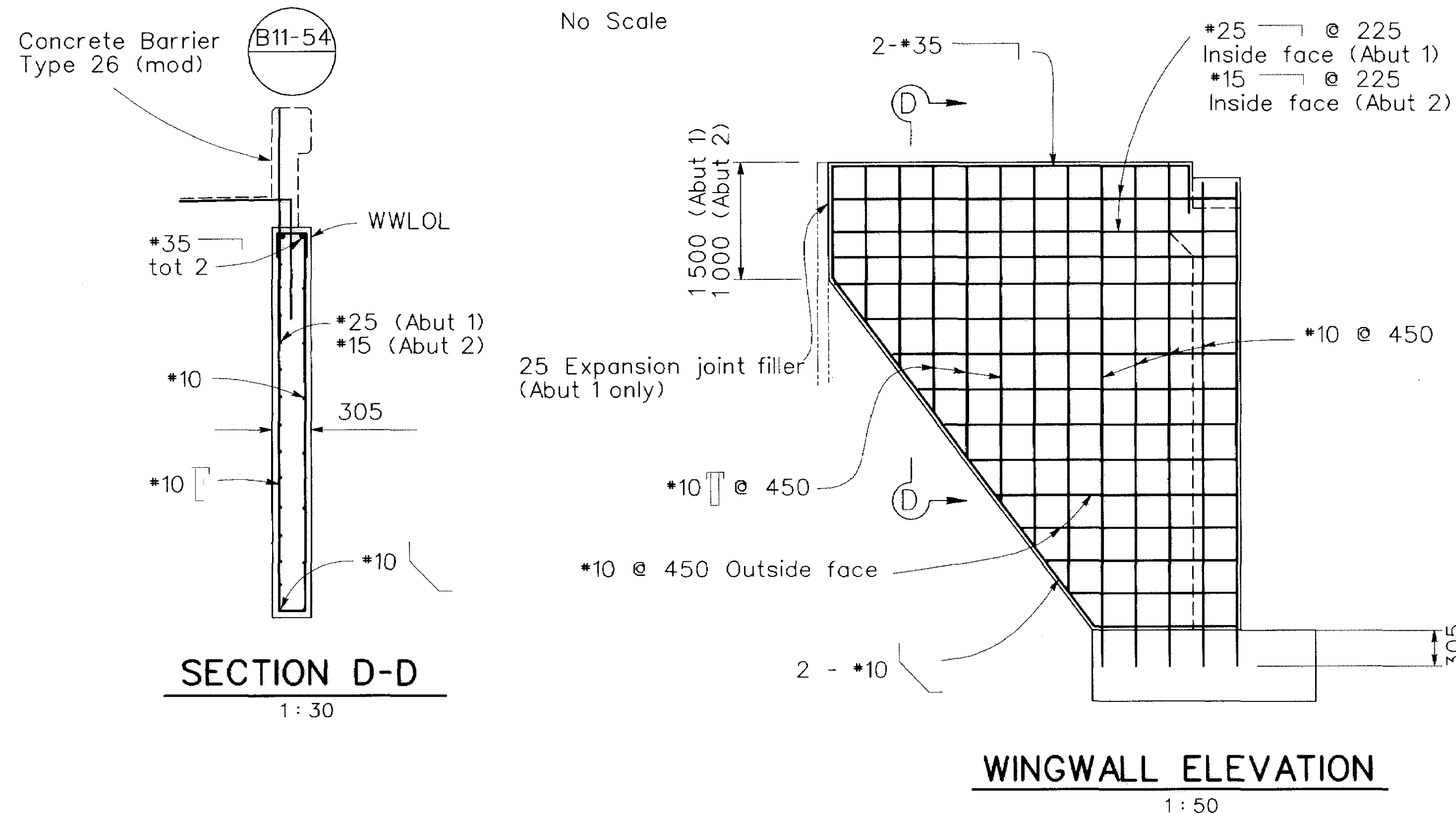


MECHANICAL LAP SPLICE AND ANCHOR

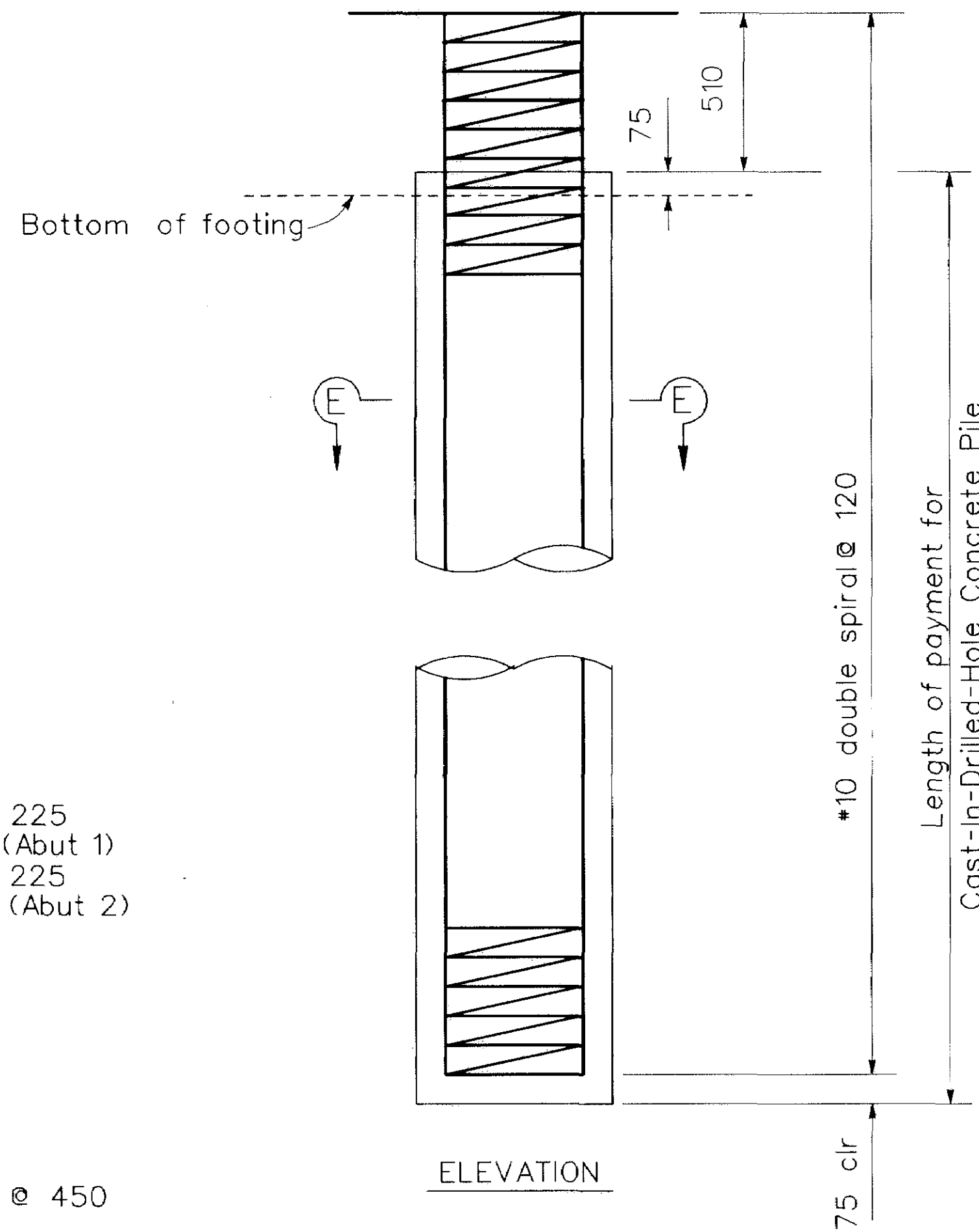
VEE GROOVE WELDED SPLICE

BUTT WELDED CONTINUOUS HOOP

BAR SPIRAL SPLICE & SPIRAL ANCHOR AND HOOP DETAIL



SECTION E-E

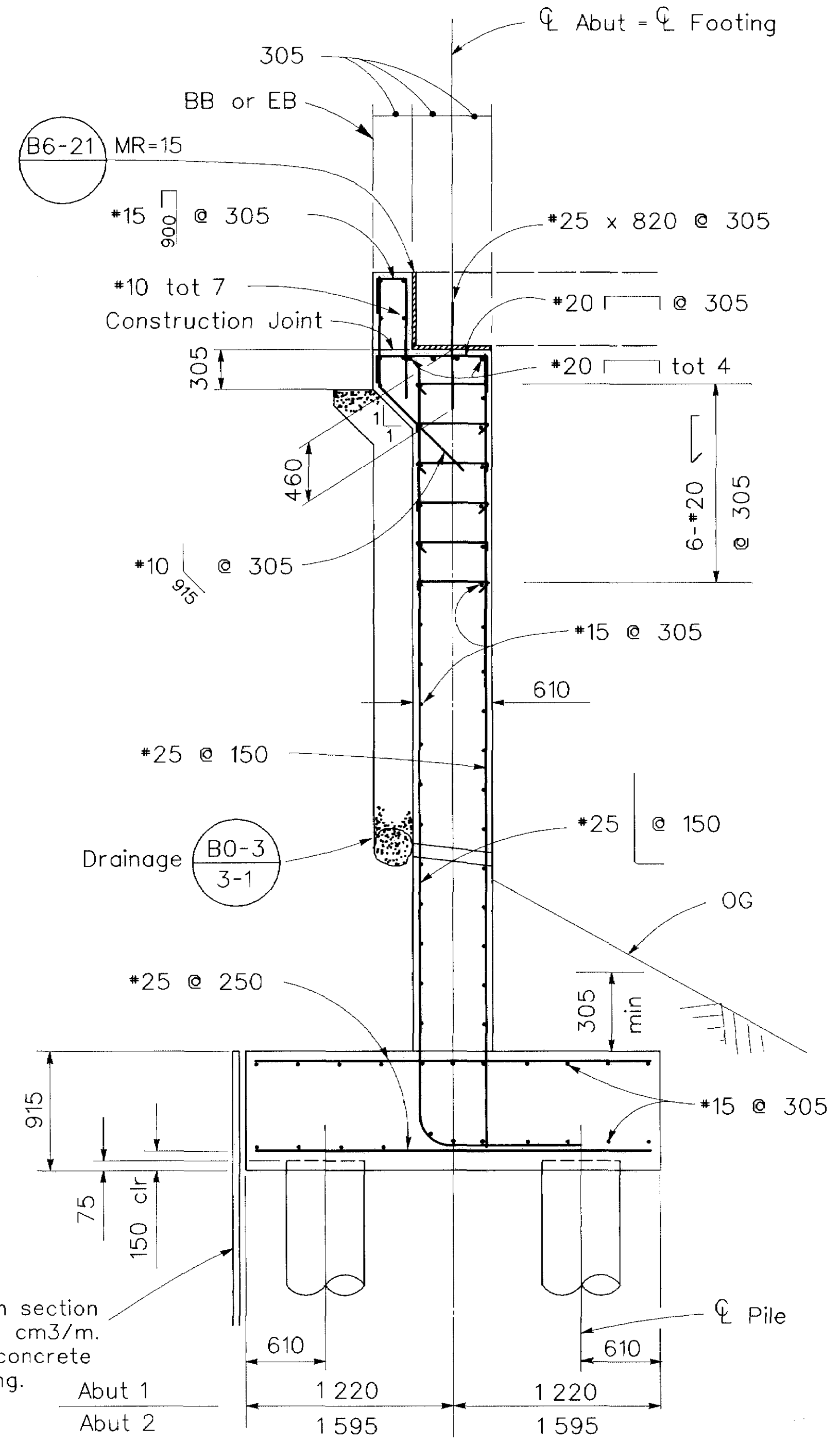


600 mm CIDH PILE

- Note :
1. All dimensions are in millimeters (mm) except as noted.
 2. The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.
 3. Backfill to be placed simultaneously behind both abutments after concrete slab is completed.
 4. Existing structure shown thus

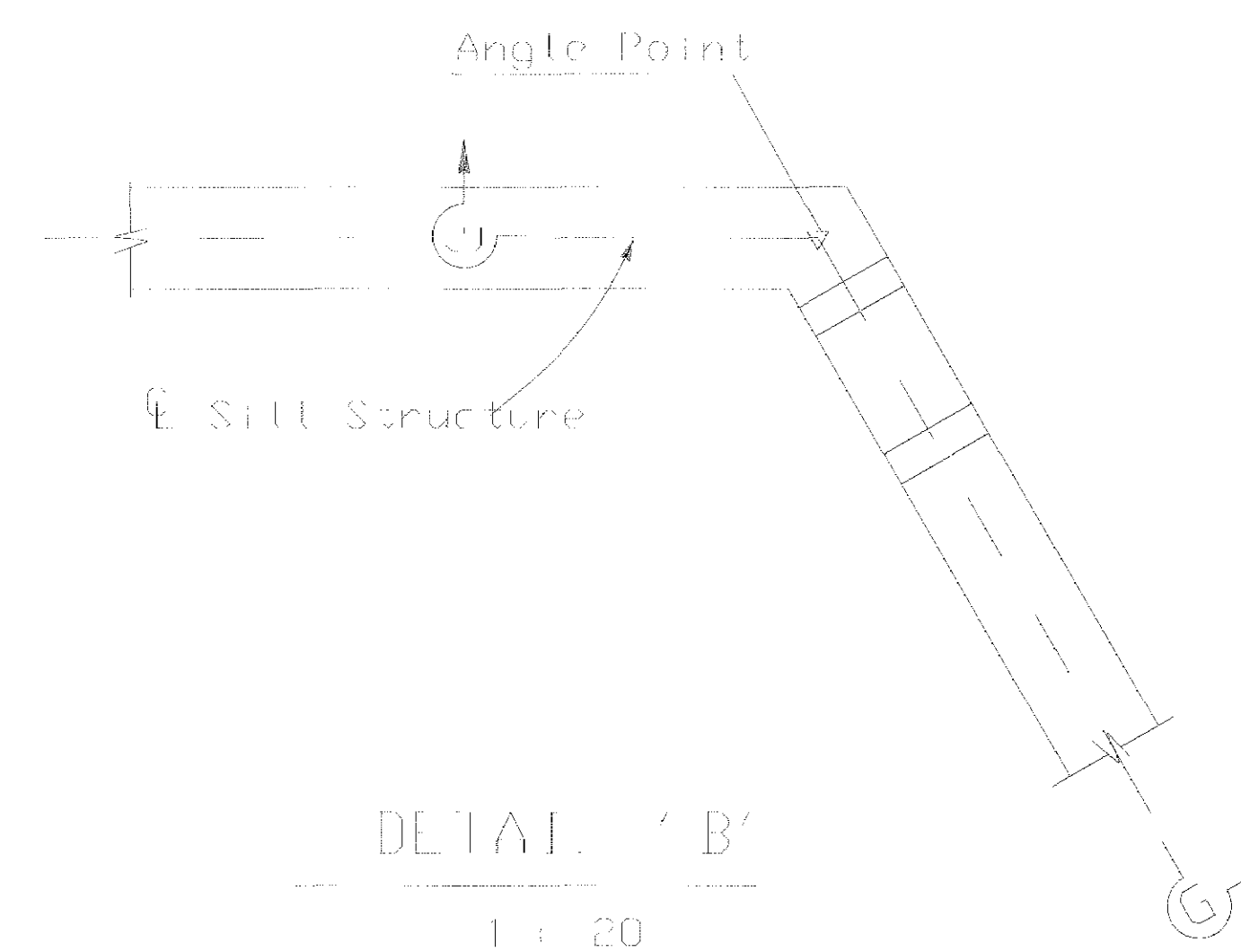
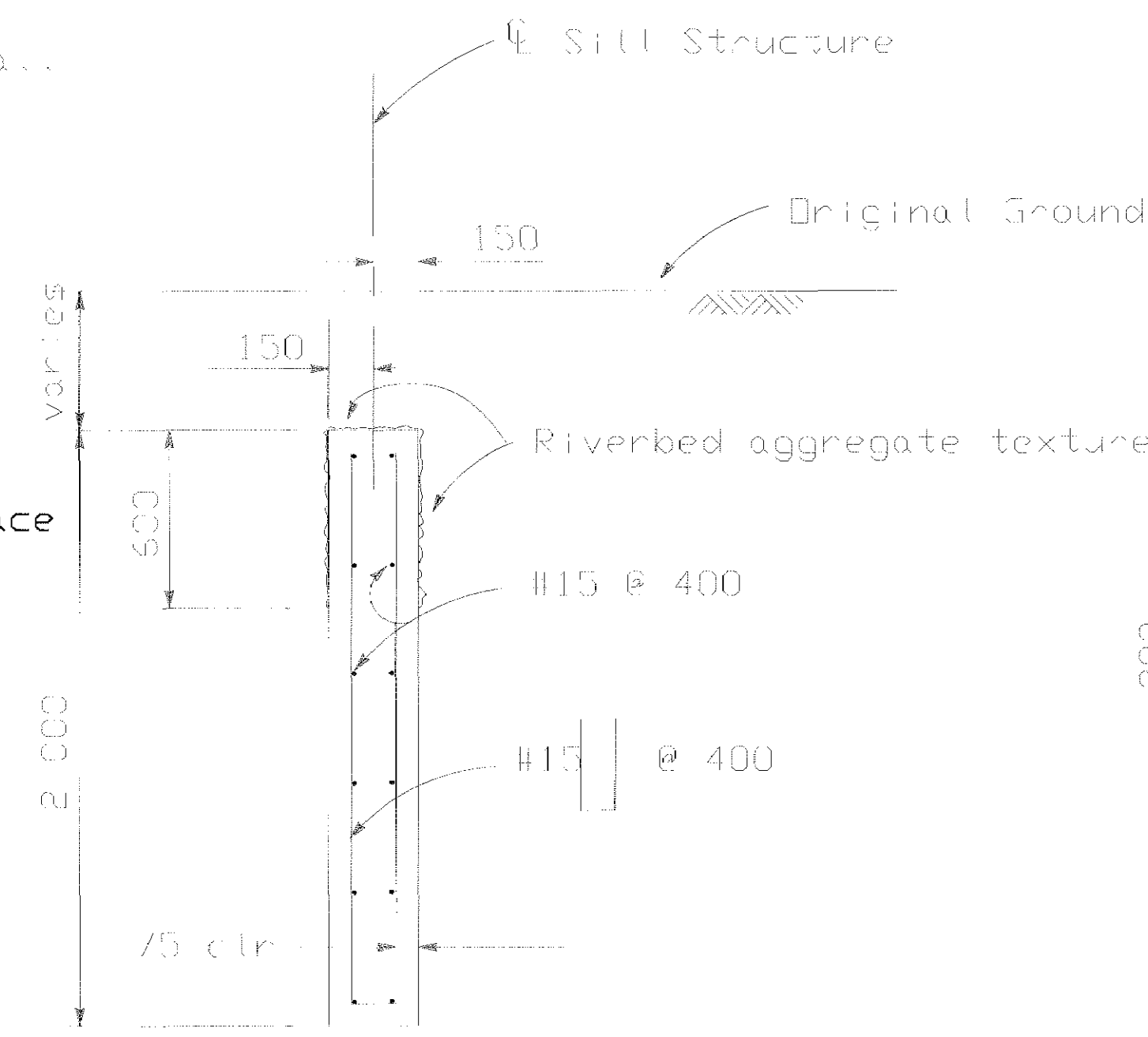
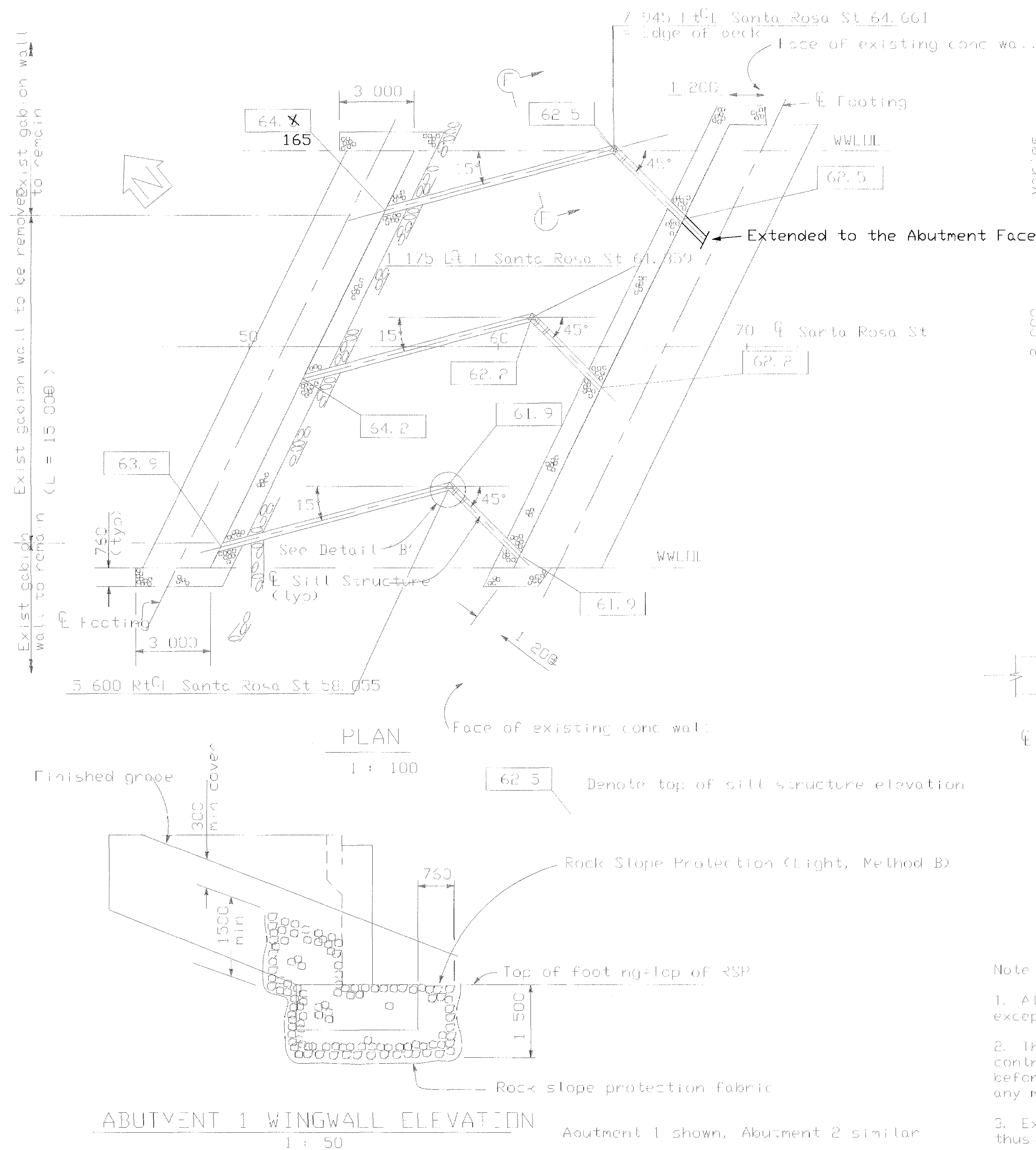
REGISTERED CIVIL ENGINEER
Steven L. Mellon
 No. 35115
 Exp. 9-30-99
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE
 Quincy Engineering, Inc.
 10301 Placer Lane, Suite 100
 Sacramento, CA 95827

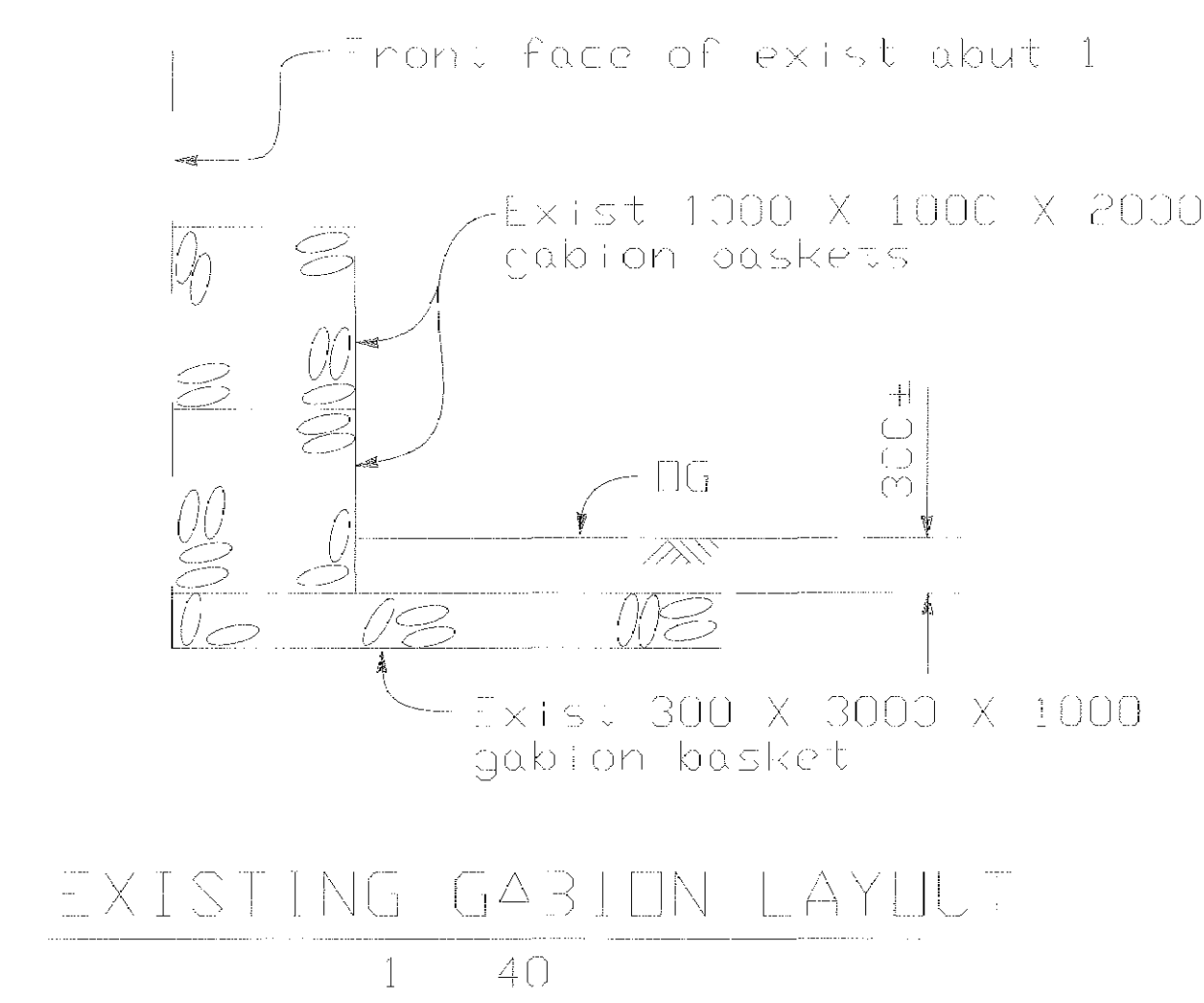
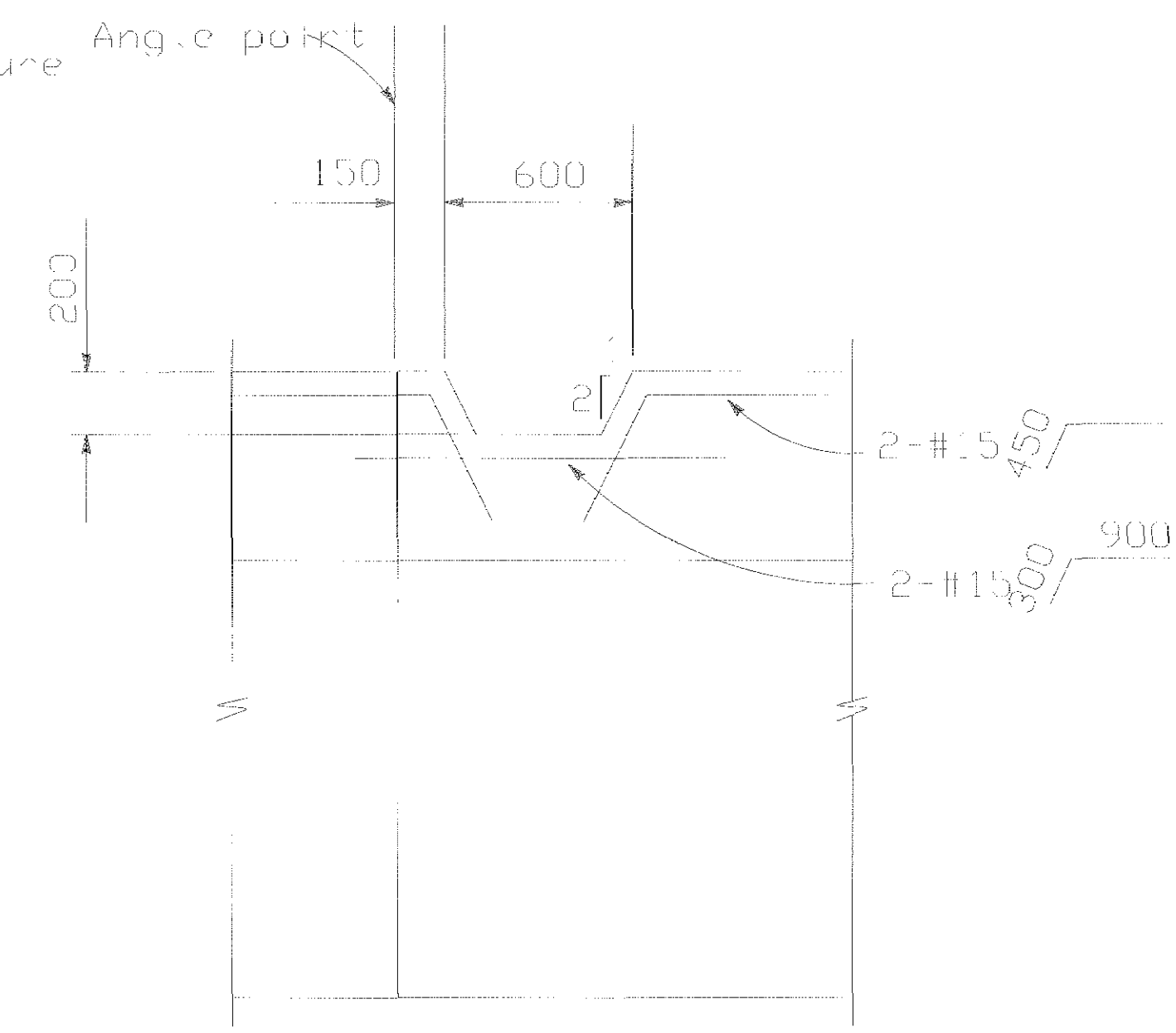


TYPICAL SECTION





- Note:
1. All dimensions are in millimeters (mm) except as noted.
 2. The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.
 3. Existing structure shown thus ———

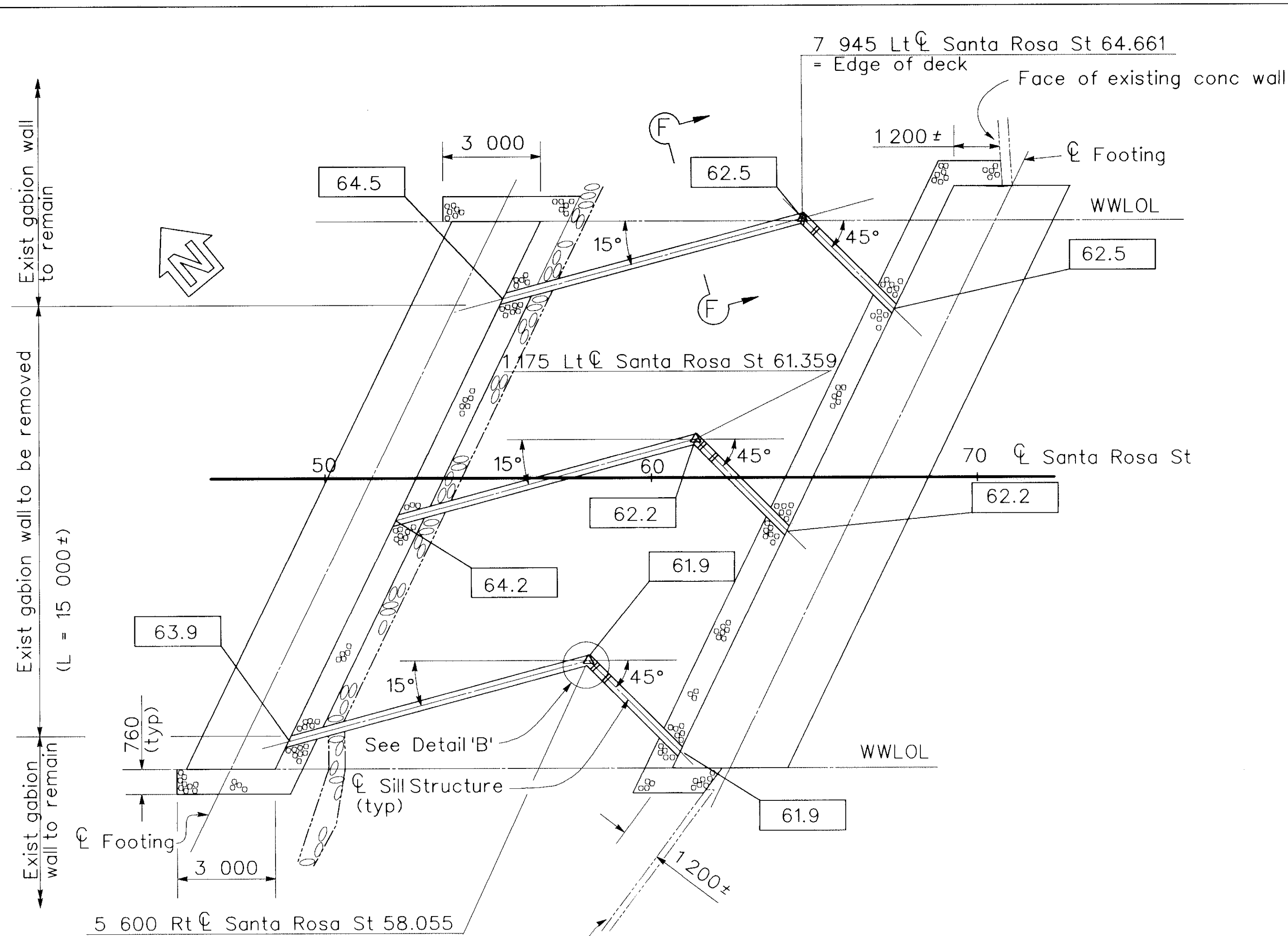


REGISTERED CIVIL ENGINEER

Steven L. Morgan
No. 35115
Exp. 03/30/99
CIVIL

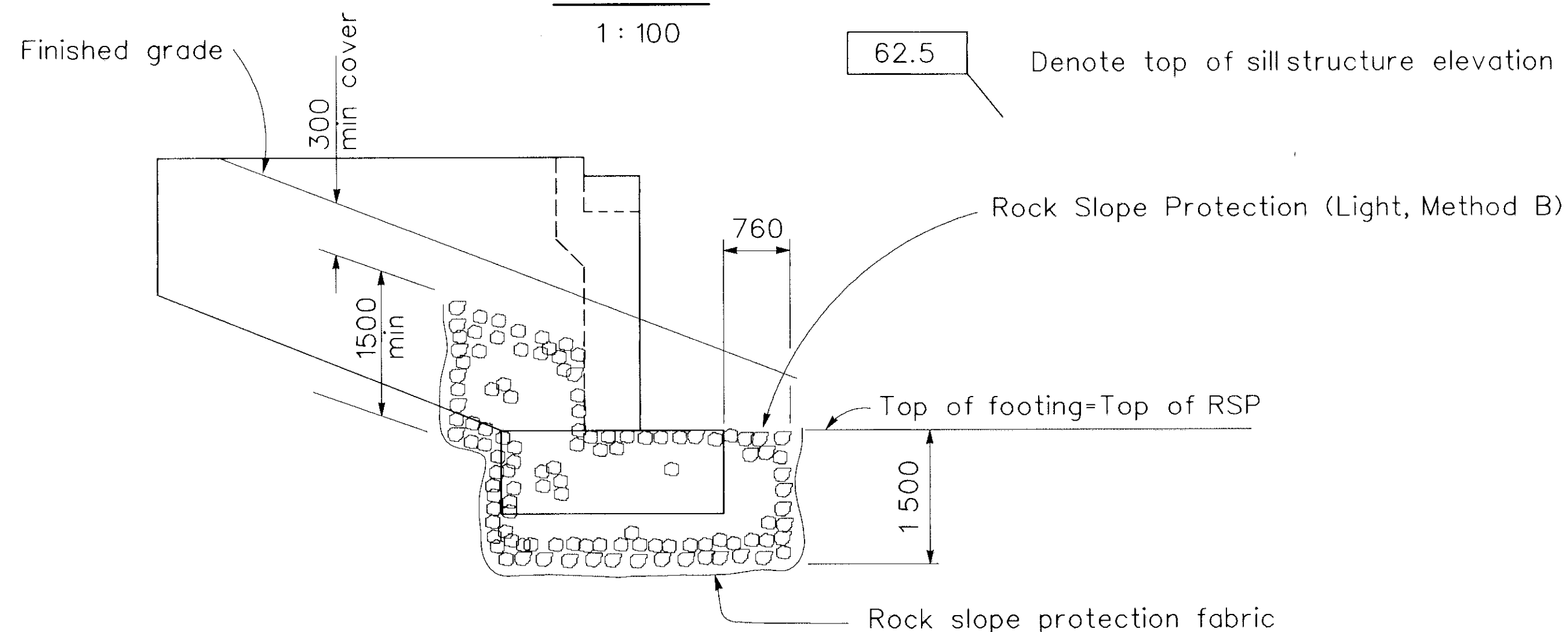
PLANS APPROVAL DATE

Quincy Engineering
10301 Placer Lane, Suite 100
Sacramento, CA 95827



PLAN

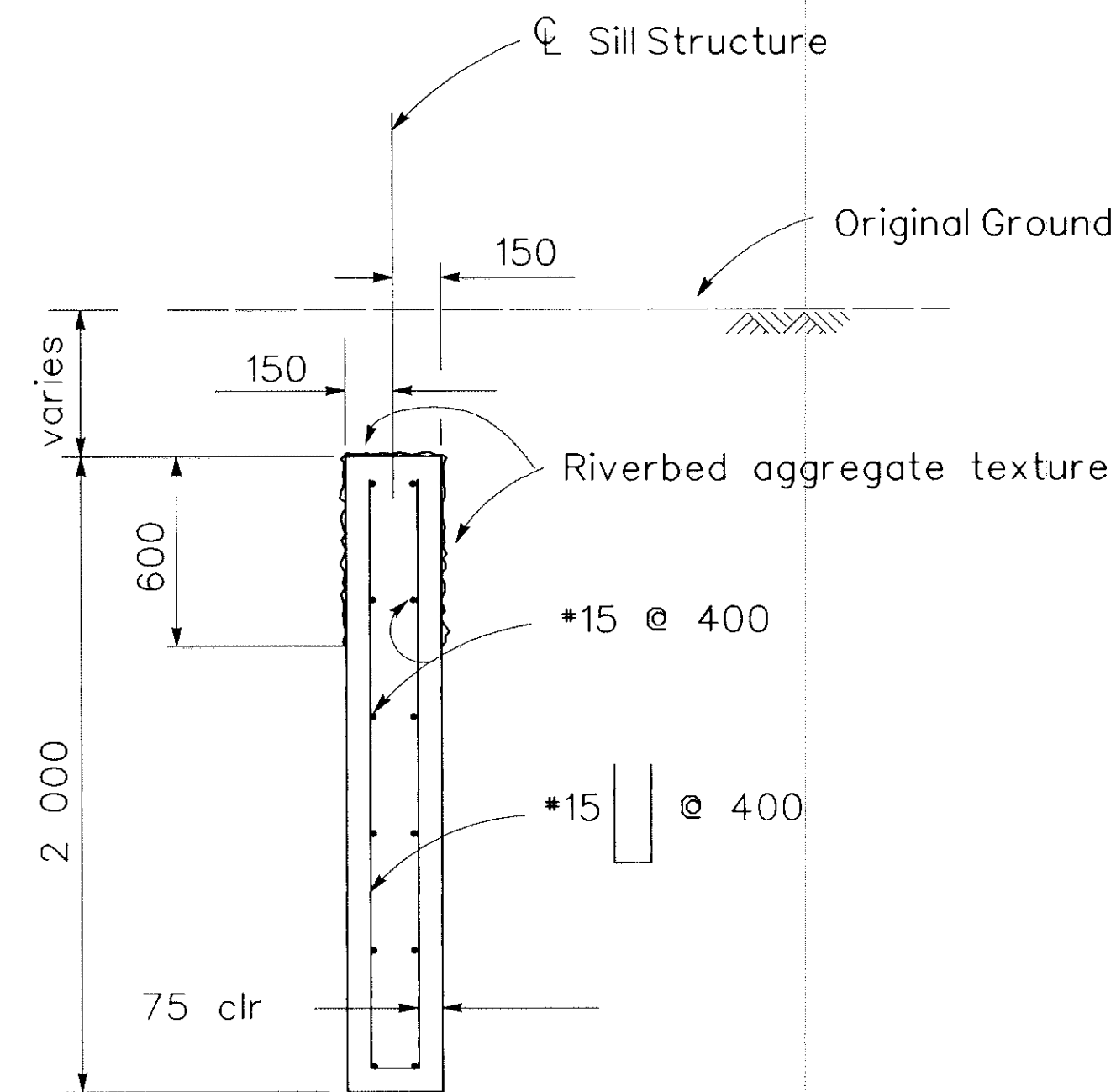
1:100



ABUTMENT 1 WINGWALL ELEVATION

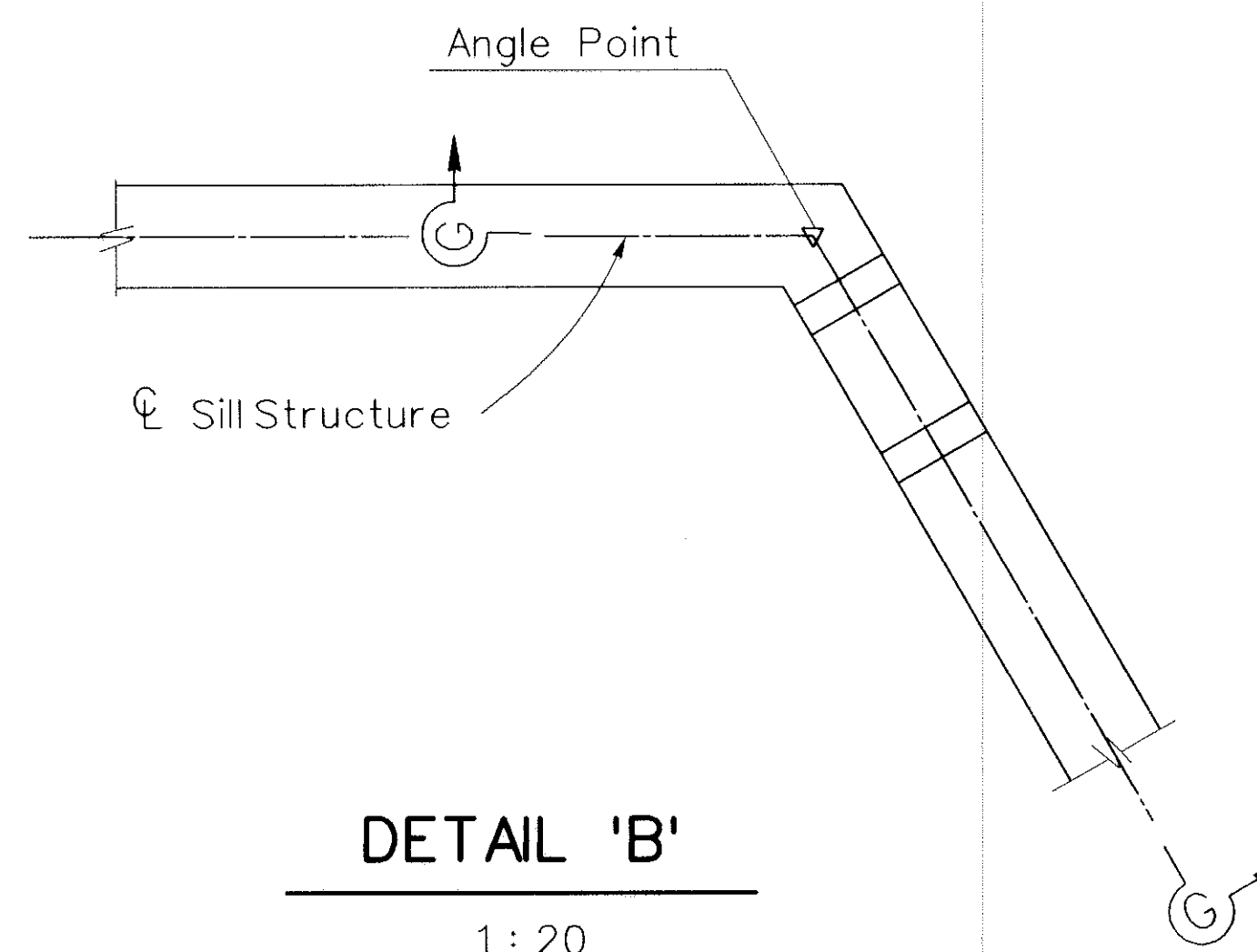
1:50

Abutment 1 shown, Abutment 2 similar



SECTION F-F

1:20



DETAIL 'B'

1:20

Note :

1. All dimensions are in millimeters (mm) except as noted.
2. The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.
3. Existing structure shown thus _____

REGISTERED CIVIL ENGINEER

Steven L. Mellon

No. 35115

Exp. 9-30-99

PLANS APPROVAL DATE

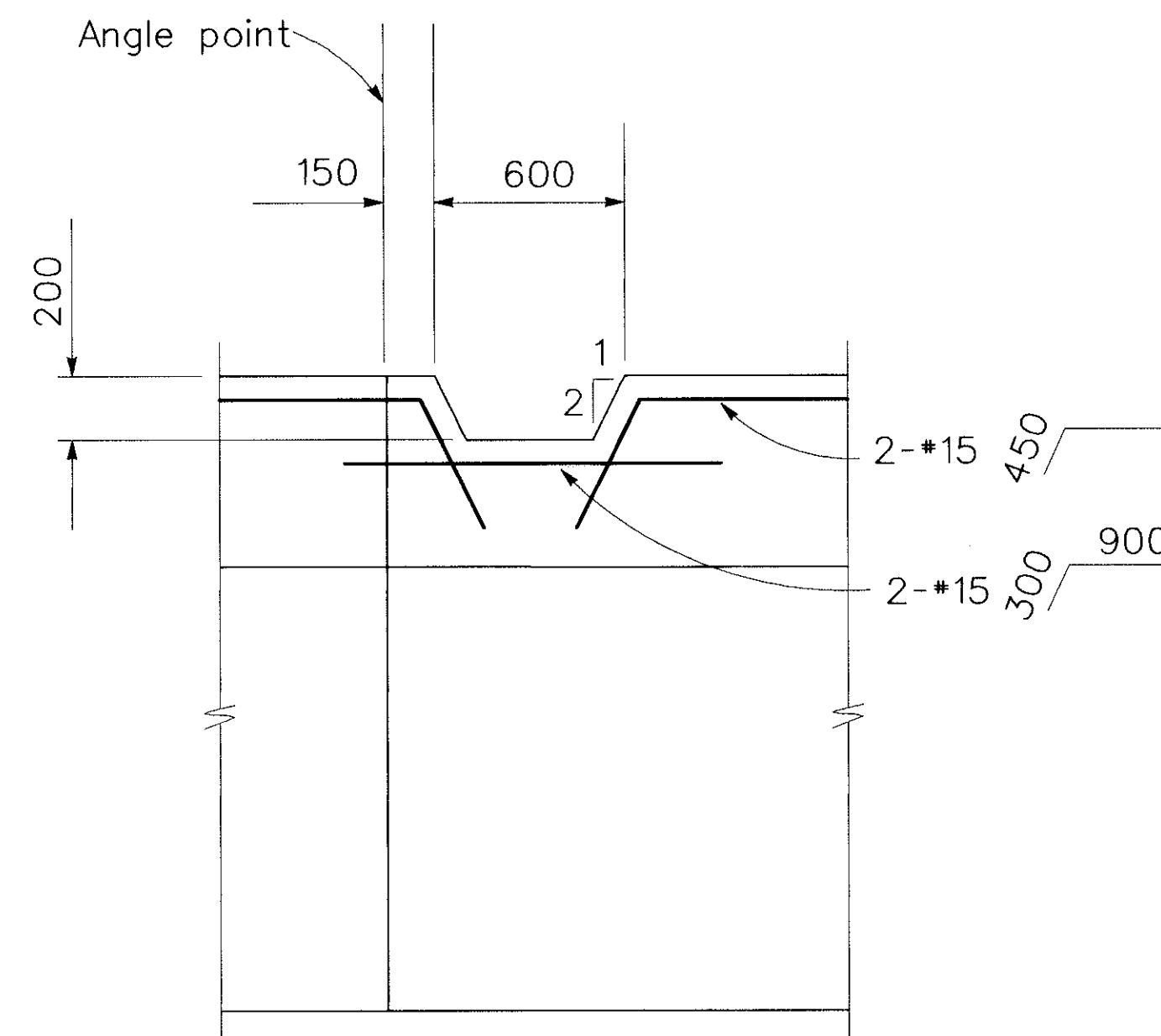
Quincy Engineering

10301 Placer Lane, Suite 100

Sacramento, CA 95827

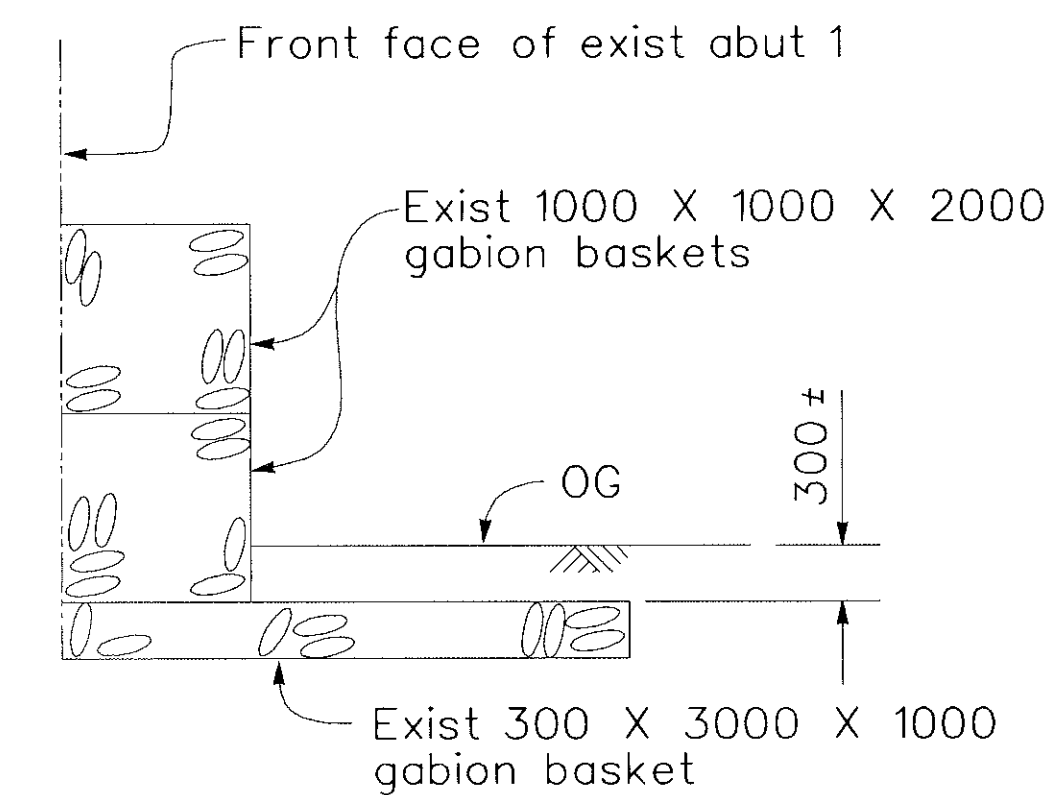
PROFESSIONAL ENGINEER

STATE OF CALIFORNIA



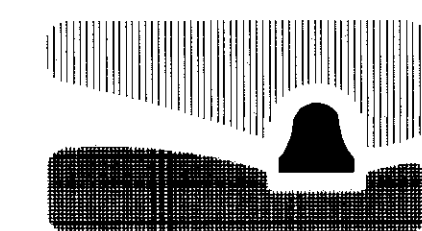
SECTION G-G

1:20



EXISTING GABION LAYOUT

1:40



city of san luis obispo

SANTA ROSA STREET
BRIDGE REPLACEMENT PROJECT
BRIDGE NO. 49C0368

APPROVED BY

CITY ENGINEER

DATE 10/1/98

SCALE

DESIGNED BY P. Chang

DRAWN BY G. Bangs

CHECKED BY D. Morgan

APPROVED BY

SAN LUIS CREEK BRIDGE
SILL STRUCTURE

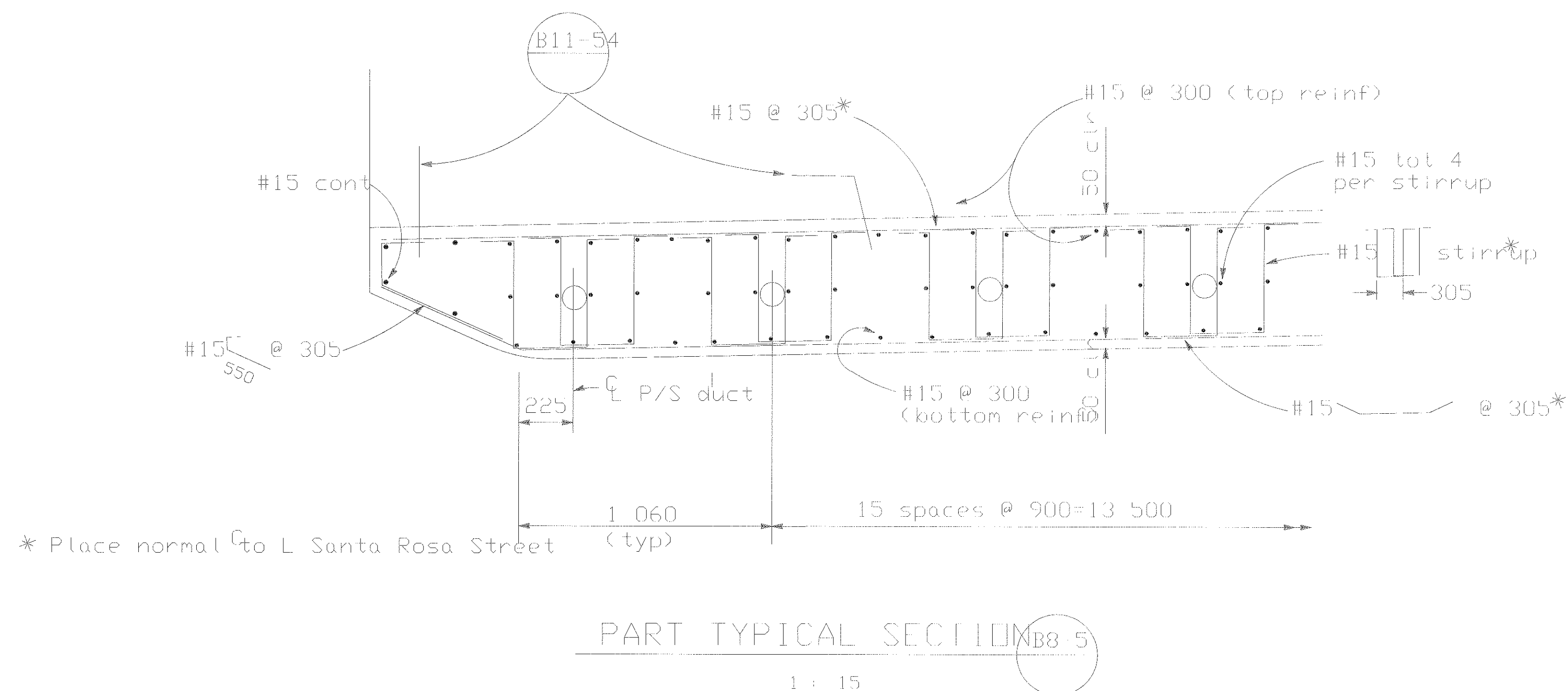
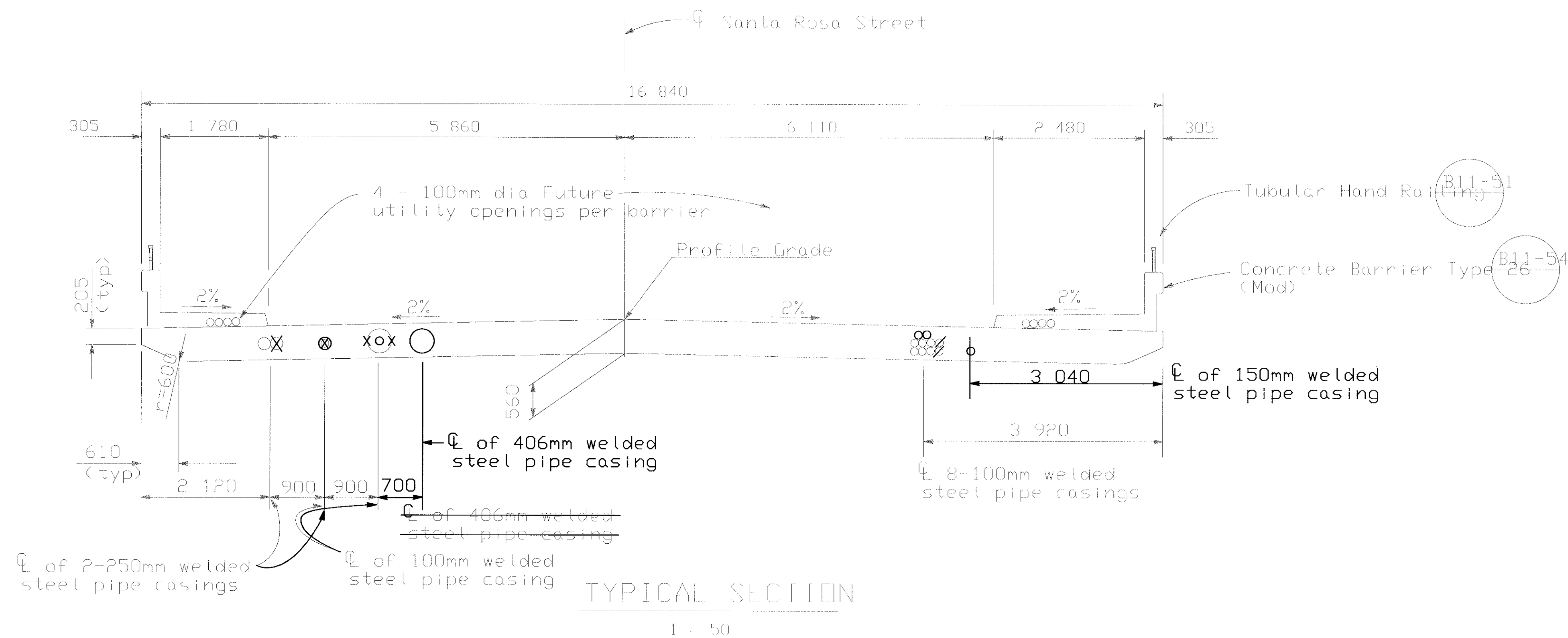
SPECIFICATION NO. 9344

FILE NO./LOCATION 0092 B

SHEET

16

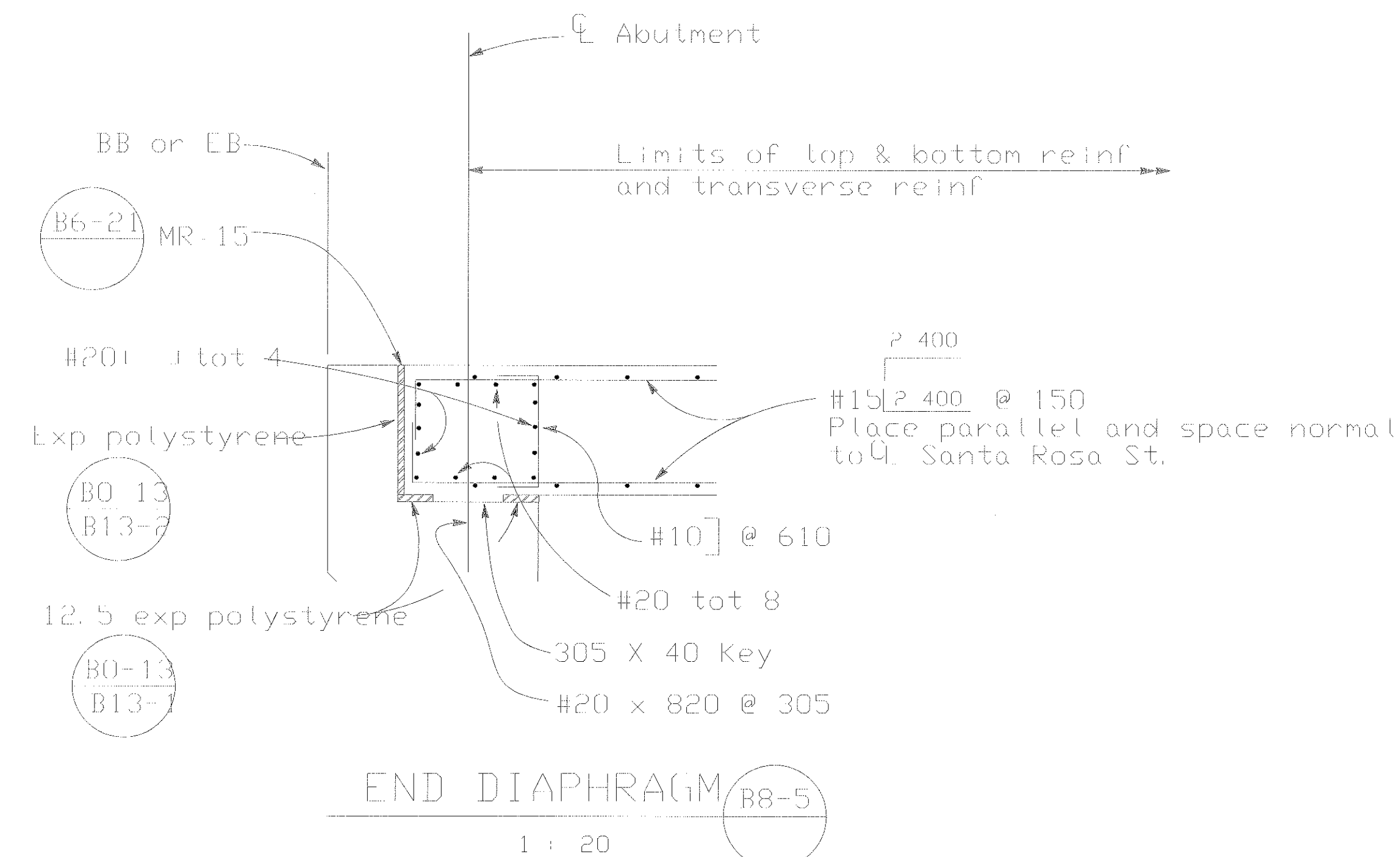
s018asp.dgn Rev 11 dbm 11/27/98



* Place normal to L Santa Rosa Street

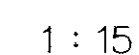
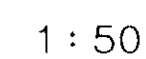
PRESTRESSING NOTES

1862 MPa low Relaxation Strand:
 Pjack = 63,050 kn
 Anchor Set = 9.5 mm
 Distribution of prestress force (Pjack) between adjacent ducts shall not exceed the ratio of 3:2. Maximum final force variation between adjacent ducts shall not exceed 3225 kn
 Concrete: $f'_c = 35$ MPa @ 28 days
 $f_{ci} = 25$ MPa @ time of stressing
 Contractor shall submit elongation calculations based on initial stress at non-jacking end = 0.964 times jacking stress. One end stressing shall be performed from either end.

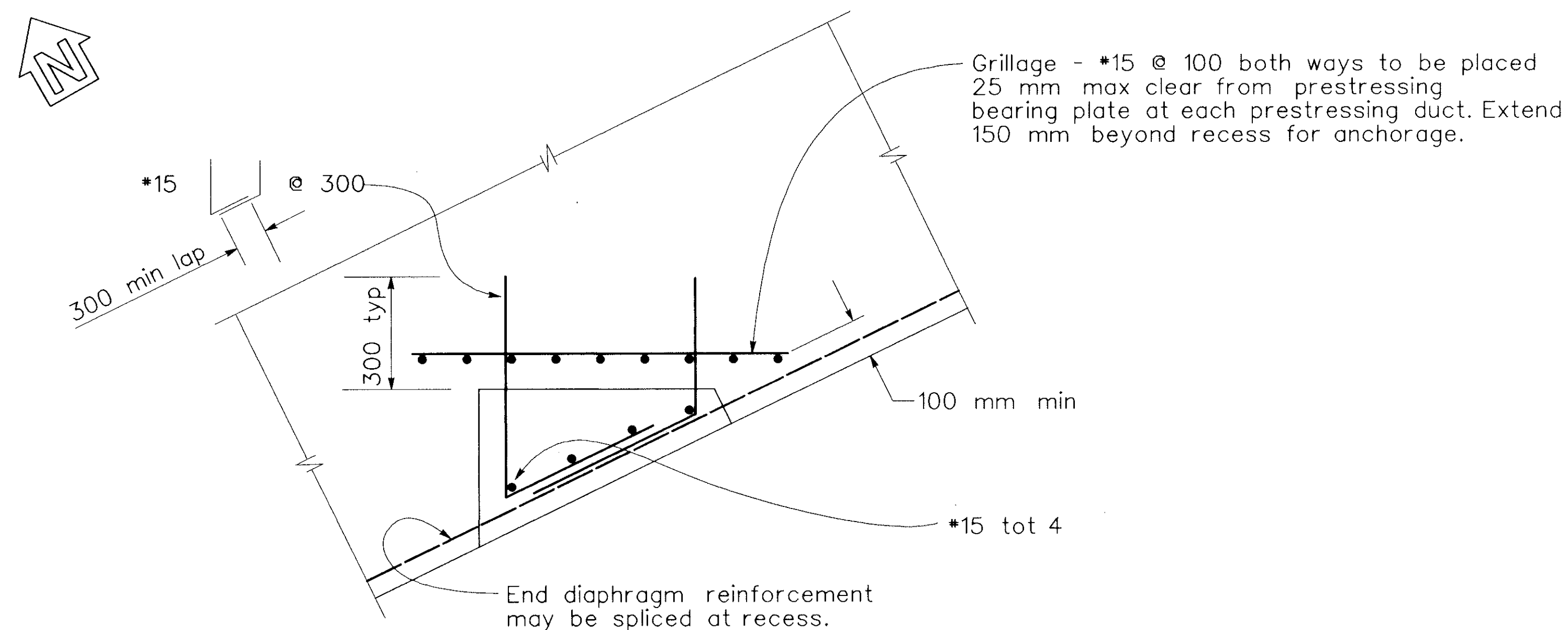
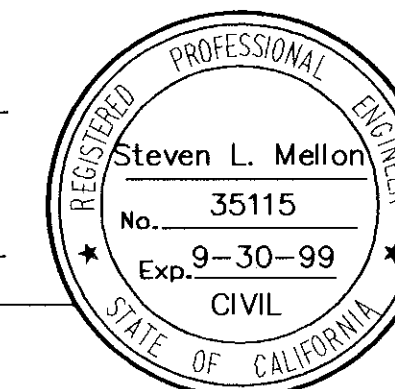


- Note :
1. All dimensions are in millimeters (mm) except as noted.
 2. The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

REGISTERED CIVIL ENGINEER	Steven L. Melnick No. 35115 Exp. 9/30/99 CIVIL STATE OF CALIFORNIA
PLANS APPROVAL DATE	
Quincy Engineering, Inc. 10301 Placer Lane, Suite 100 Sacramento, CA 95827	

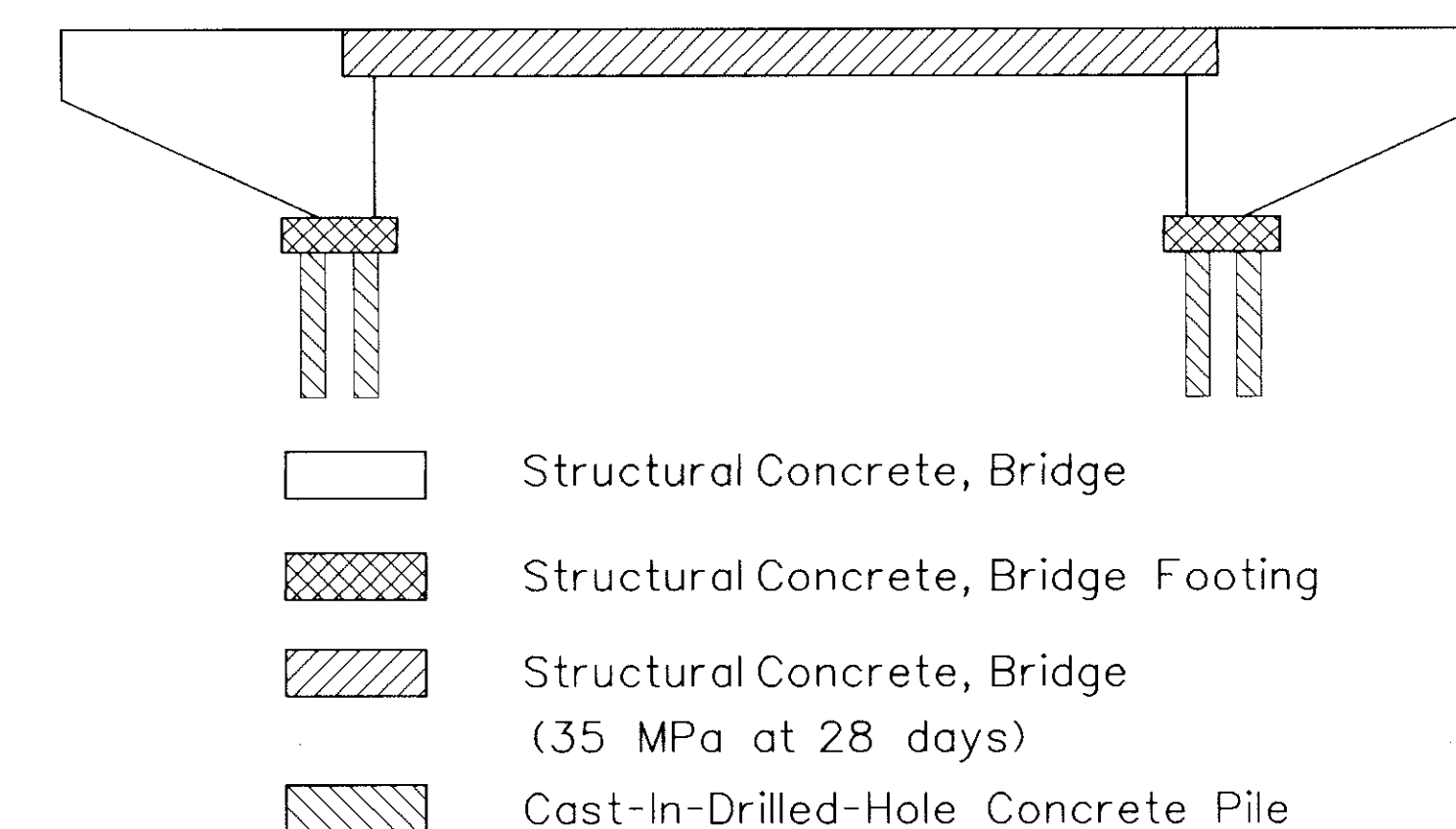



 REGISTERED CIVIL ENGINEER
 No. 35115
 Exp. 9-30-99
 CIVIL
 PLANS APPROVAL DATE
 Quincy Engineering, Inc.
 10301 Placer Lane, Suite 100
 Sacramento, CA 95827



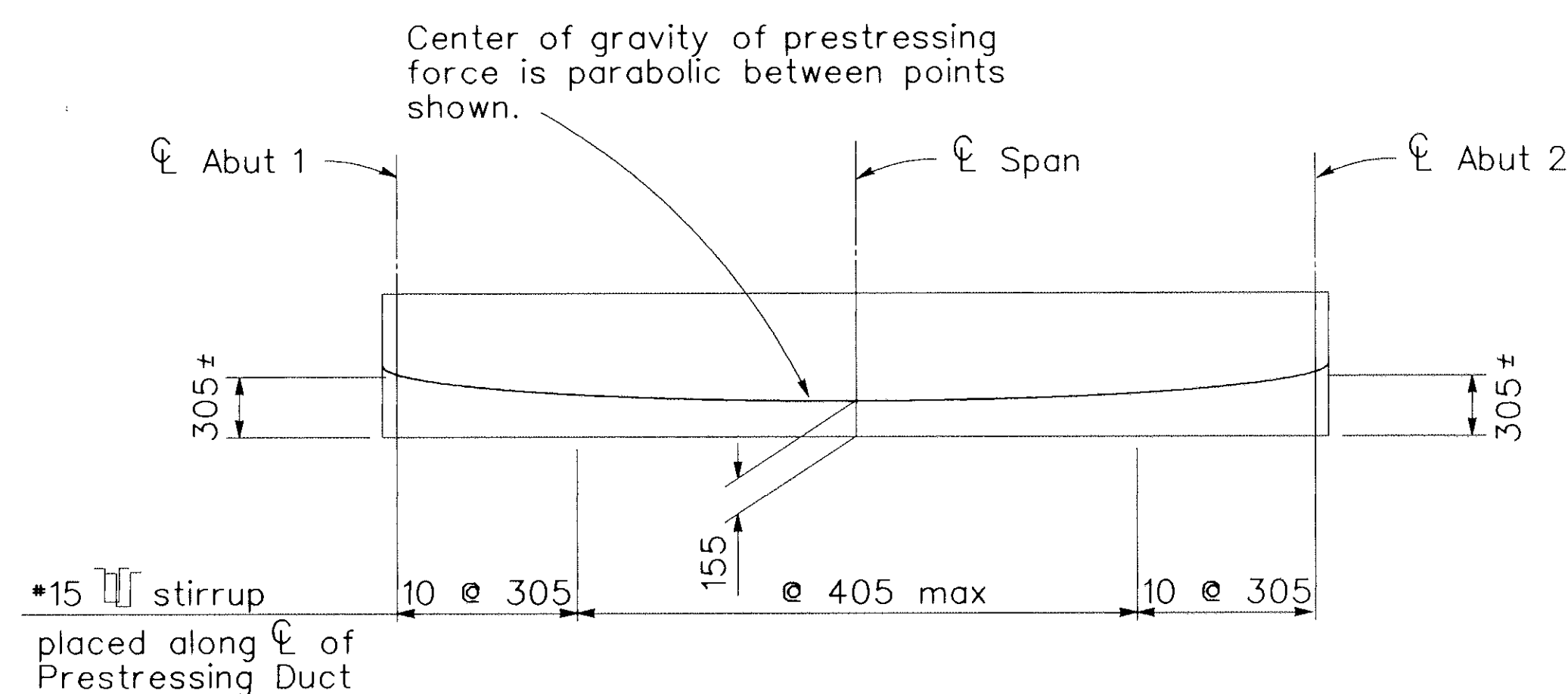
TYPICAL BLOCKOUT DETAIL

No Scale



CONCRETE STRENGTH AND TYPE LIMITS

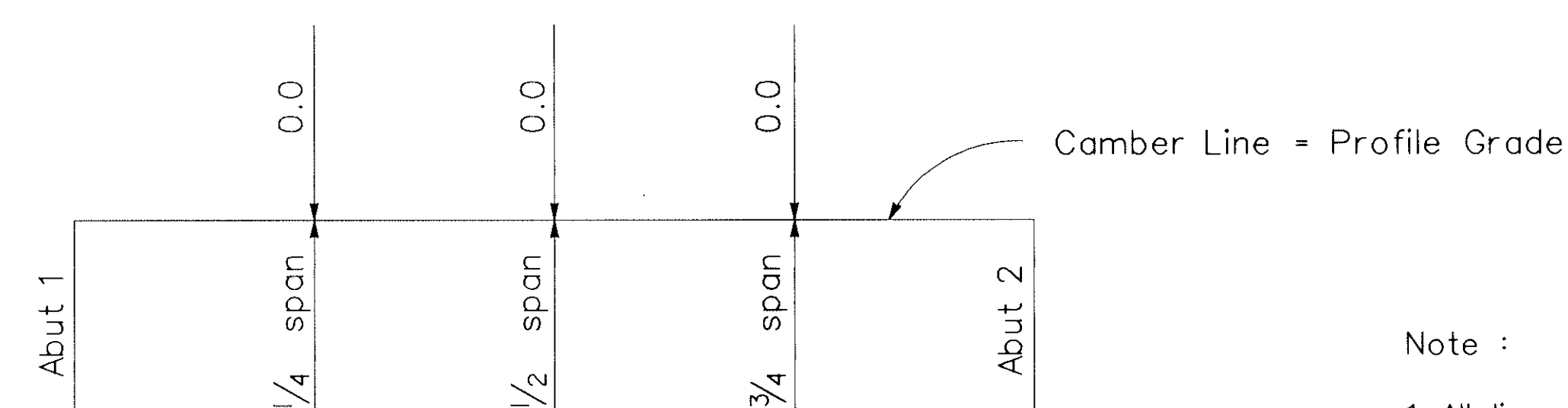
No Scale



LONGITUDINAL SECTION

No scale

(B8-5)



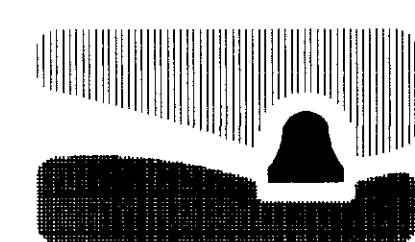
CAMBER DIAGRAM

No scale

Note : Does not include allowance for falsework settlement.

Note :

1. All dimensions are in millimeters (mm) except as noted.
2. The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.



city of san luis obispo

SANTA ROSA STREET
BRIDGE REPLACEMENT PROJECT
BRIDGE NO. 49C0368

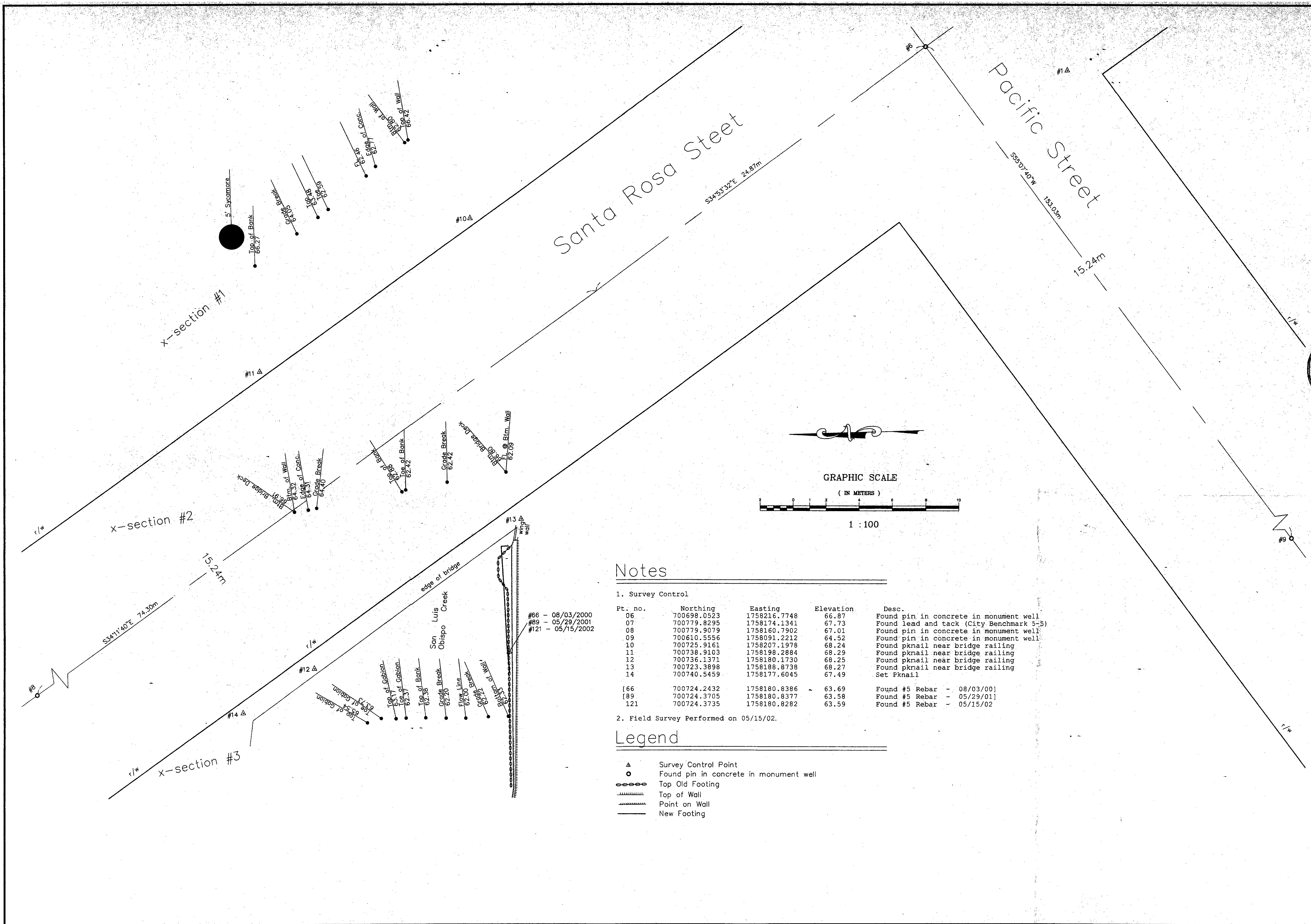
APPROVED BY
CITY ENGINEER

DATE 10/1/98
 SCALE
 DESIGNED BY D. Morgan
 DRAWN BY G. Bangs
 CHECKED BY B. Katuna
 APPROVED BY

**SAN LUIS CREEK BRIDGE
SLAB REINFORCEMENT**

SPECIFICATION NO.
 9344
 FILE NO./LOCATION
 0032 B
 SHEET
 18





Notes

1. Survey Control

Pt. no.	Northing	Easting	Elevation	Desc.
06	700698.0523	1758216.7748	66.87	Found pin in concrete in monument well
07	700779.8295	1758174.1341	67.73	Found lead and tack (City Benchmark 5-5)
08	700779.9079	1758160.7902	67.01	Found pin in concrete in monument well
09	700610.5556	1758091.2212	64.52	Found pin in concrete in monument well
10	700725.9161	1758207.1978	68.24	Found pknail near bridge railing
11	700738.9103	1758198.2884	68.29	Found pknail near bridge railing
12	700736.1371	1758180.1730	68.25	Found pknail near bridge railing
13	700723.3898	1758188.8738	68.27	Found pknail near bridge railing
14	700740.5459	1758177.6045	67.49	Set Pknail
[66	700724.2432	1758180.8386	63.69	Found #5 Rebar - 08/03/00]
[89	700724.3705	1758180.8377	63.58	Found #5 Rebar - 05/29/01]
121	700724.3735	1758180.8282	63.59	Found #5 Rebar - 05/15/02

2. Field Survey Performed on 05/15/02.

Legend

- Survey Control Point
- Found pin in concrete in monument well
- Top Old Footing
- Top of Wall
- Point on Wall
- New Footing

APPROVED
DATE
DESCRIPTION

REVISIONS

JOSEPH T. MORRIS
No. 6102
EXP. 3/06
DATE SIGNED
6/22/02
LICENSE EXPIRES
March 31, 2006

JOSEPH T. MORRIS
No. 6102
EXP. 3/06
DATE SIGNED
6/22/02
LICENSE EXPIRES
March 31, 2006

JOHN L. WILLIAMS & ASSOCIATES
Civil Engineers
4115 So. Grand St. Ste. 100
San Jose, CA 95128
(408) 294-4011 FAX 544-4294

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SLO CREEK X-SECTIONS

City of San Luis Obispo, California

DESIGNERS

DRAWN BY JGW

SHEET

1

OF 1 SHEET(S)

