

TOWN OF SAN ANSELMO
TOWN COUNCIL STAFF REPORT
For the meeting of 6-10-08

DATE: 6-3-08

TO: Mayor and Council Members

FROM: Rabi Elias, Public Works Director

SUBJECT: Sir Francis Drake Boulevard at Corte Madera Creek, Bridge Rail and Walk Replacement project. Approve project and authorize staff to solicit bids.

RECOMMENDATION

Approve the revised project and authorize staff to solicit bids.

BACKGROUND

This project went to bid in June 06, only one bid was received in the amount of \$465,000. It was way over the engineer's estimate of \$230,000 and the grant funding. The bid was rejected. The consulting engineer was directed to revise the design by using standard girder sections and one large pier instead of three smaller ones.

Meanwhile Cal Trans put the project on the de-active list, which means they would take the funding away. Through perseverance and after six months of letters, emails and phones, I got the project reinstated and not only that, I got additional funding of \$320,000.

DISCUSSION

The concrete bridge rail is deteriorated and falling apart. The metal deck walkway and guard rail are rusted and losing strength. Replacement is needed badly. The new walkway is a single span concrete prestressed girder supported on drilled piers high on the bank.

Project plans are attached; specs are available for review at DPW office.

FISCAL IMPACT

Engineer's estimate	\$390,000
Funding	
HBRR Federal Grant	\$345,000
Town share, Congestion Relief Fund FY 2007/08	\$ 45,000
Total	\$390,000

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	TITLE SHEET (THIS SHEET)
2.	GENERAL PLAN
3.	PROJECT PLAN
4.	FOUNDATION PLAN
5.	FOUNDATION DETAILS
6.	GIRDER PLAN AND DETAILS
7.	HAND RAIL AND MISC DETAILS
8.	GUARD RAIL
9.	LOG OF TEST BORINGS

LEGEND

ABBREVIATIONS

AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
Abut	ABUTMENT
CB	CATCH BASIN
Conc	CONCRETE
Dia	DIAMETER
Dwy	DRIVEWAY
EQ	EQUIVALENT
Exist	EXISTING
ETS	ELECTRICAL TEST STATION
LF	LINEAR FEET
HDPE	HIGH-DENSITY POLYETHYLENE
Max	MAXIMUM
Min	MINIMUM
MMWD	MARIN MUNICIPAL WATER DISTRICT
New	NEW
Opp	OPPOSITE
PVC	POLYVINYL CHLORIDE
R & D	REMOVE AND DISPOSE
RCP	REINFORCED CONCRETE PIPE
R/W	RIGHT OF WAY
SF	SQUARE FEET
SSP	STATE STANDARD SPECIAL PROVISIONS
SP	STATE STANDARD PLANS
Std	STANDARD
Typ	TYPICAL
UCS	UNIFORM CONSTRUCTION STANDARD
UON	UNLESS OTHERWISE NOTED
VCP	CLAY PIPE
WV	WATER VALVE

SYMBOLS

	FIRE HYDRANT
	MANHOLE
	WATER VALVE
	MONUMENT
	CATCH BASIN
	ETS (PHONE COMPANY)
	UTILITY POLE
	DIRECTION OF TRAVEL
	DIRECTION OF FLOW
	FENCE
	HANDRAIL
	GAS
	WATER
	SEWER
	STORM DRAIN
	TELEPHONE
	TRAFFIC SIGNAL CONDUIT

DETAIL REFERENCE

	DETAIL NUMBER
	SHEET NO. ON WHICH DETAIL APPEARS
	DETAIL NUMBER
	SECTION LETTER

CALL USA (UNDERGROUND SERVICE ALERT) AT LEAST 48HRS IN ADVANCE OF WORK - 1-(800)-642-2444.

TOWN OF S

PLANS FOR CC

SIR FRANCIS DR

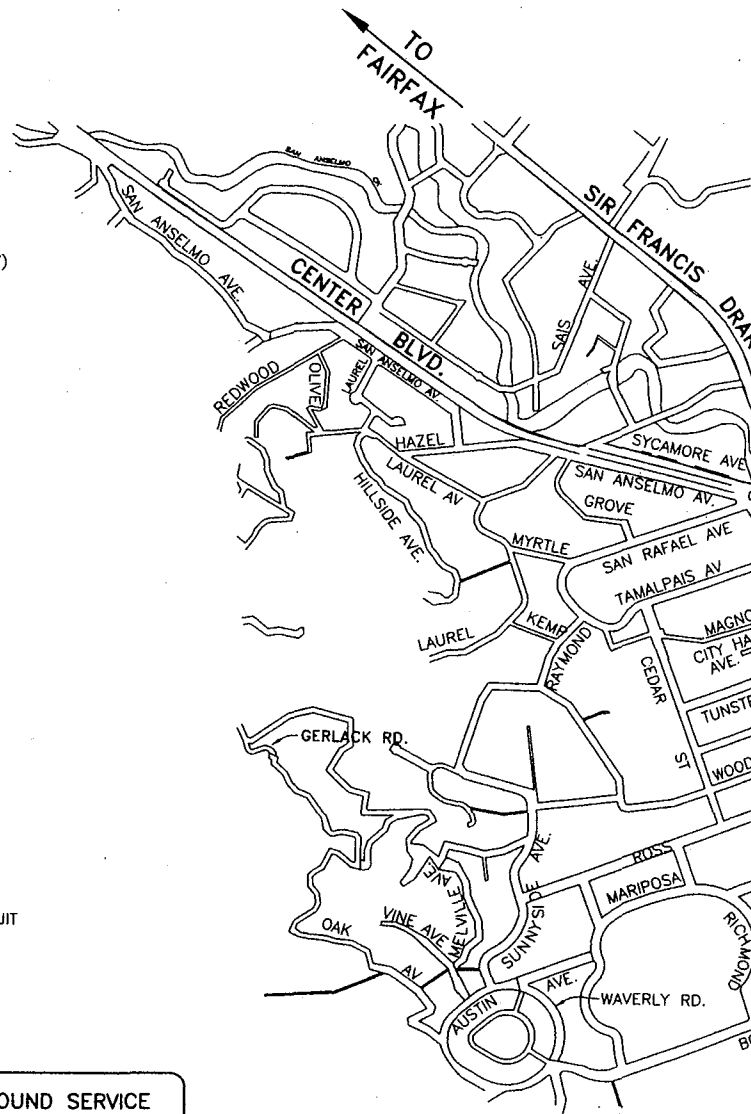
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BRIDGE RAIL AND

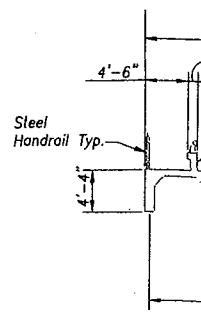
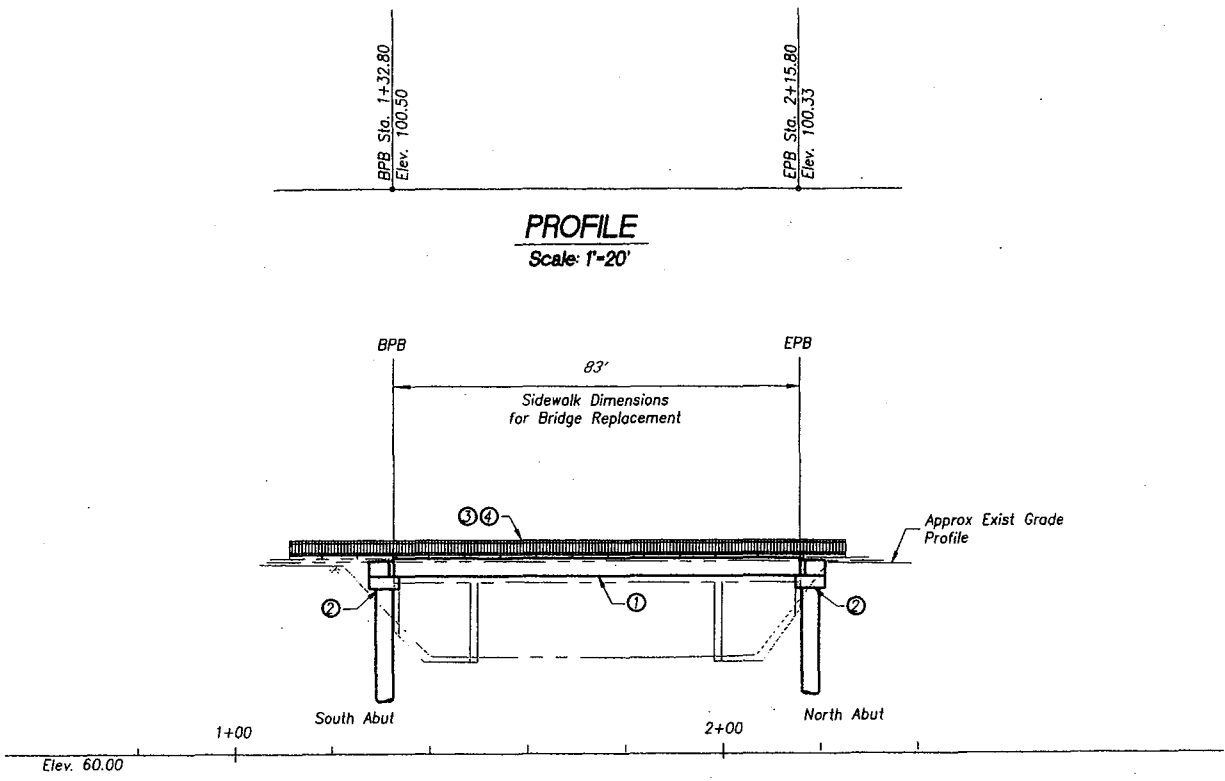
FEDERAL-AI

STPLX

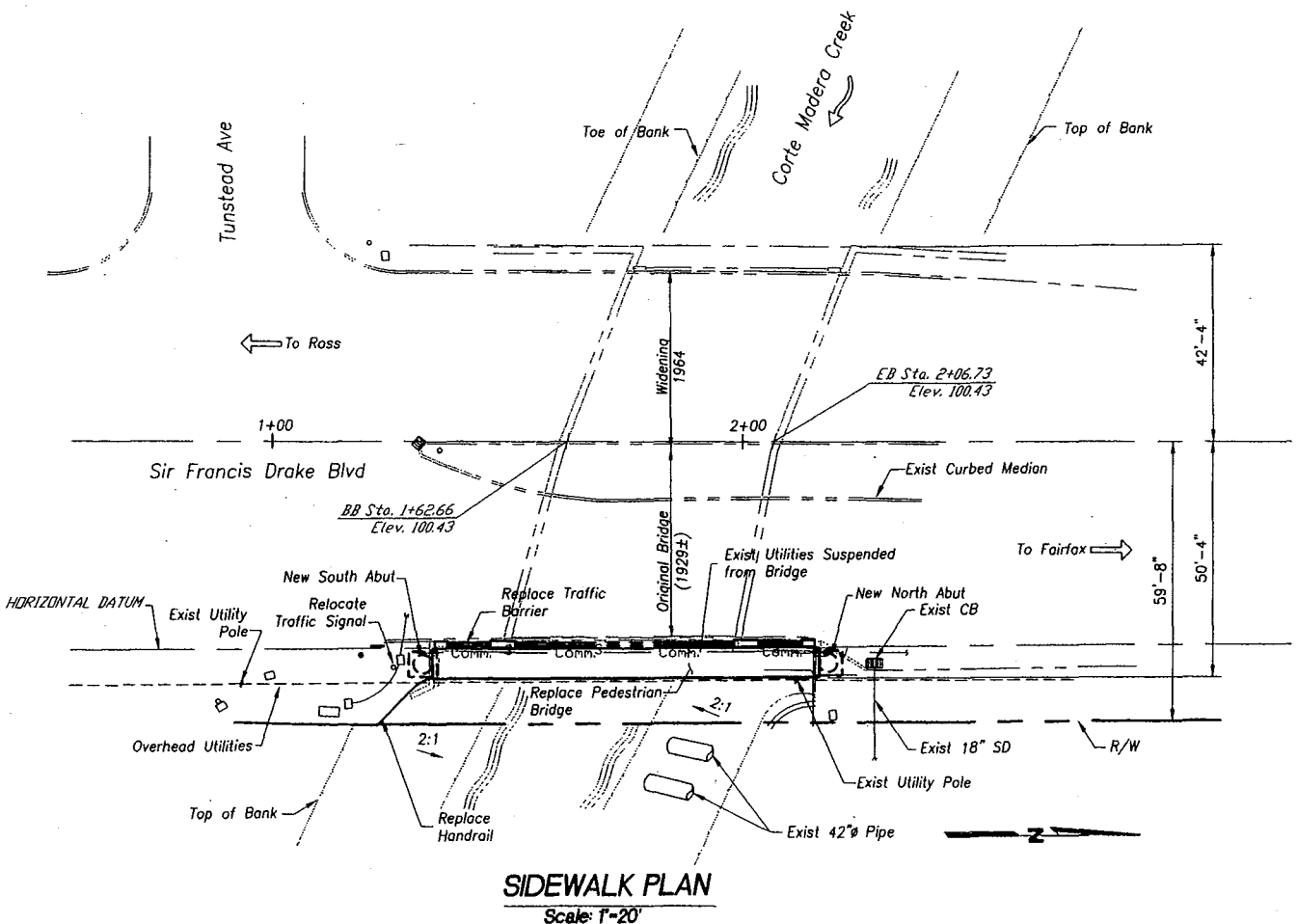
TO BE SUPPLEMENTED BY CALT



DESIGN OVERSIGHT	DESIGN	BY R. Ludke	CHECKED	LOAD FACTOR DESIGN	BY	CHECKED
SIGNOFF DATE	DETAILS	BY D. Sedlachek	CHECKED	LAYOUT	BY	PLANS AND SPECS COMPARED
	QUANTITIES	BY D. Sedlachek	CHECKED	SPECIFICATIONS	BY	



BRIDGE ELEVATION
Scale: 1"-20'



LEGEND

- Existing
- New
- Direction
- ① Pedestrian
- ② Abutment
- ③ Handrail
- ④ Traffic Barrier

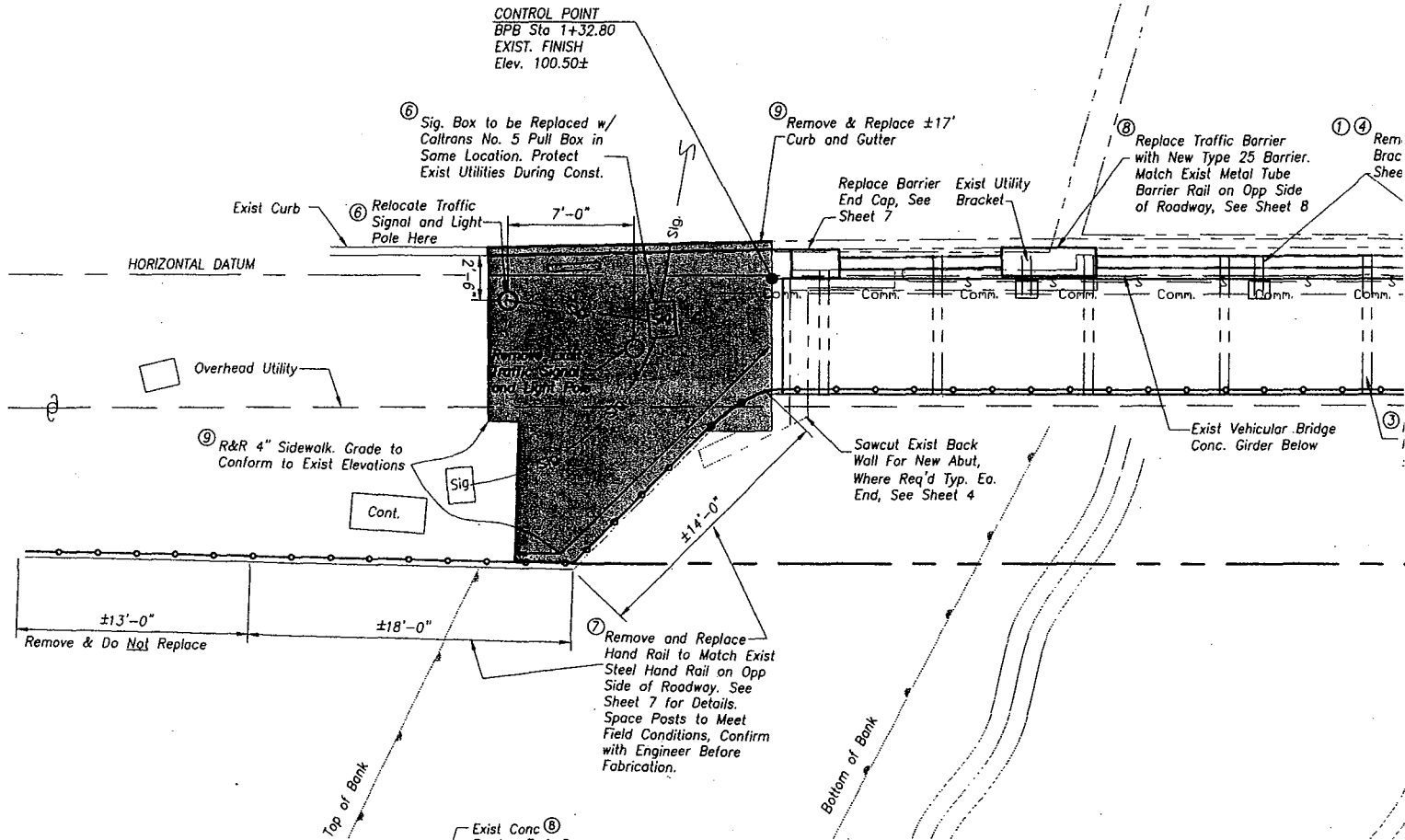
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DETAILS	BY D. Sedlachek	CHECKED	LAYOUT	BY	CHECKED
QUANTITIES	BY D. Sedlachek	CHECKED	SPECIFICATIONS	BY	PLANS AND SPECS COMPARED

DESIGN OVERSIGHT

SIGNOFF DATE

DS OSD 2178 (CADD 4/80)

Note: All Signal Work per Caltrans Standards



PROJECT PLAN

Scale: 1" = 5'

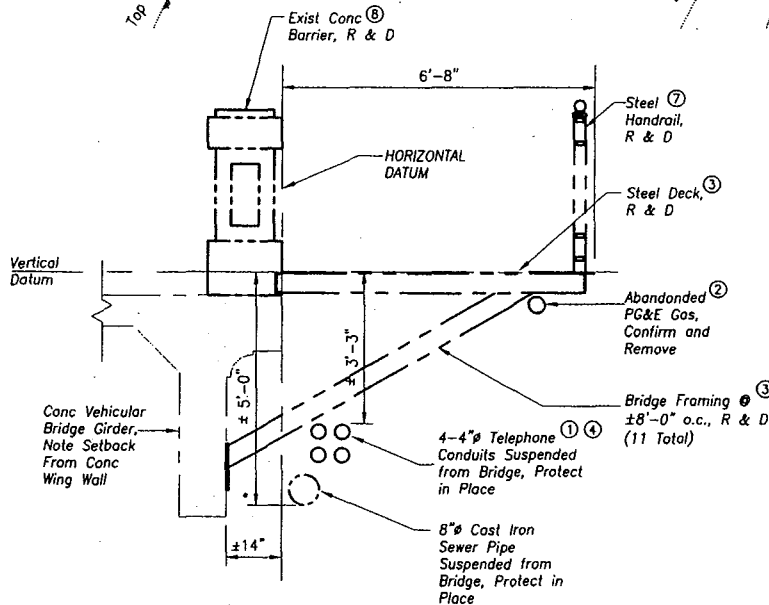
NOTES:

1. Provide Temporary Support for Telephone
2. Remove Exist Abandoned Gas Line
3. Remove Exist Steel Bridge Deck and Replace w/ PT Girders and CIP Slab
4. Remove Exist Utility Hangers if Required. Verify w/ Engineer Before Removal, R & D
5. Relocate Exist Water Service by MMWD
6. Relocate Exist Traffic Signal and Light Pole
7. Remove Exist Hand Rail, Replace w/ Steel
8. Remove Exist Conc Vehicle Barrier Replace w/ New Type 25 Conc Barrier
9. Remove and Replace Conc Sidewalk

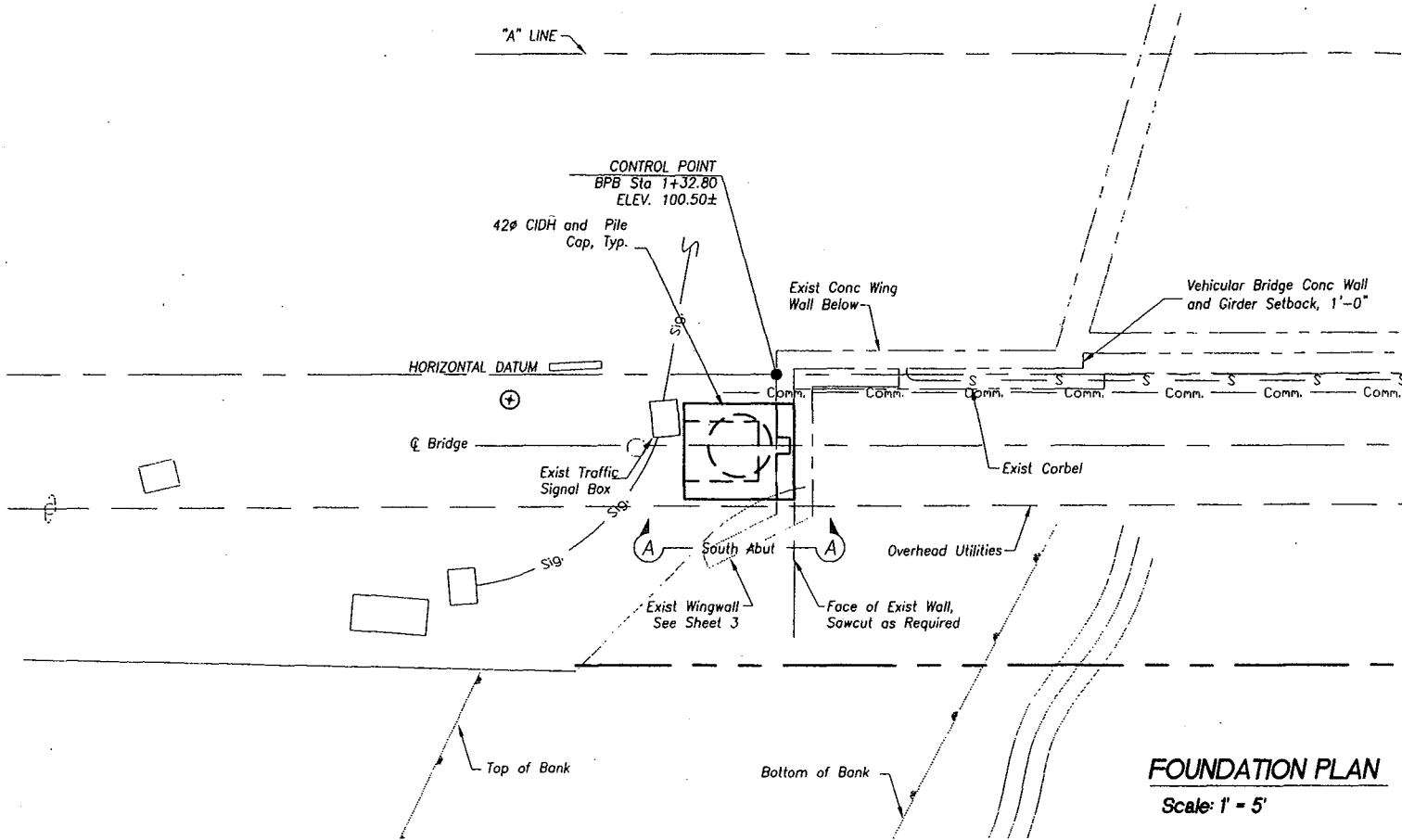
EXIST TYPICAL PEDESTRIAN BRIDGE

SECTION A-A

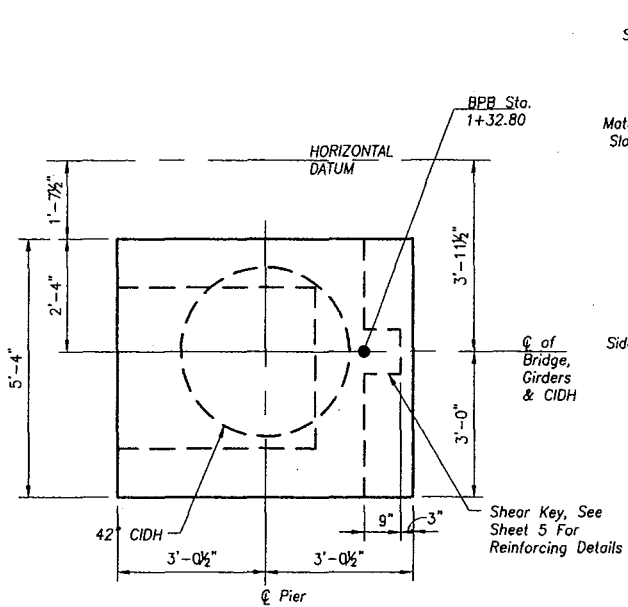
SCALE: 1/2"=1'



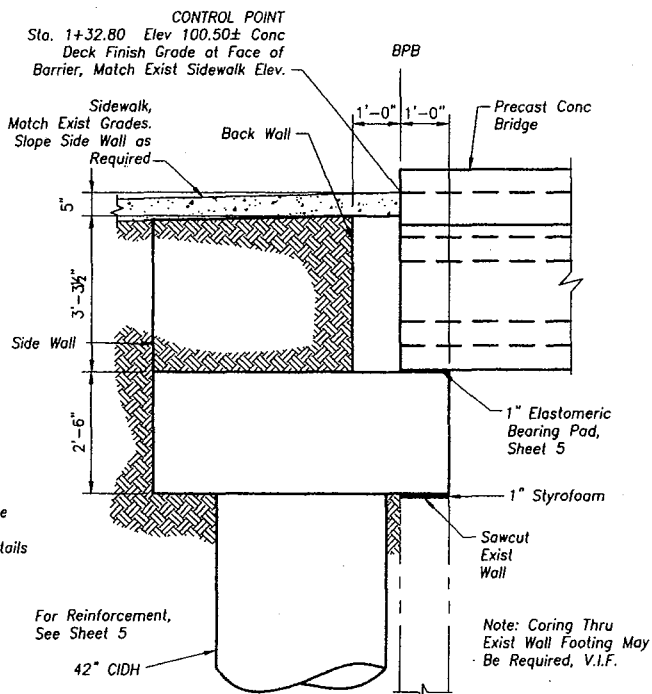
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SIGNOFF DATE	DETAILS	BY D. Sedlachek	CHECKED	LAYOUT	BY	CHECKED
	QUANTITIES	BY D. Sedlachek	CHECKED	SPECIFICATIONS	BY	PLANS AND SPECS COMPARED



FOUNDATION PLAN
Scale: 1' = 5'



SOUTH ABUTMENT PLAN
SCALE: 1/2"=1'-0"



SOUTH ELEVATION SECTION A-A
SCALE: 1/2"=1'-0"

LEGEND

---	Existing
—	New

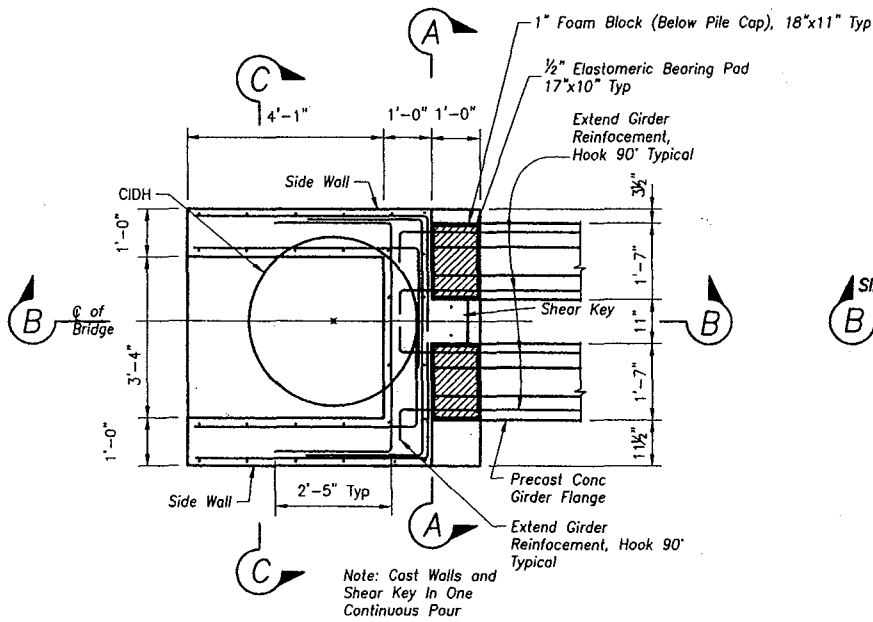
FOUNDATION NOTES

Quantity
Pier Ø
Bottom of Pier Elevation
Bottom of Pier Elevation

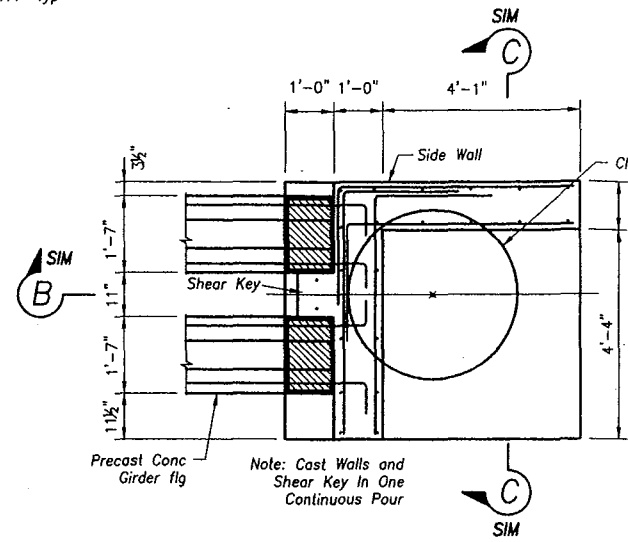
NOTE

The Contractor Shall Verify All Controlling Field Dimensions Before Order or Fabricating Any Material

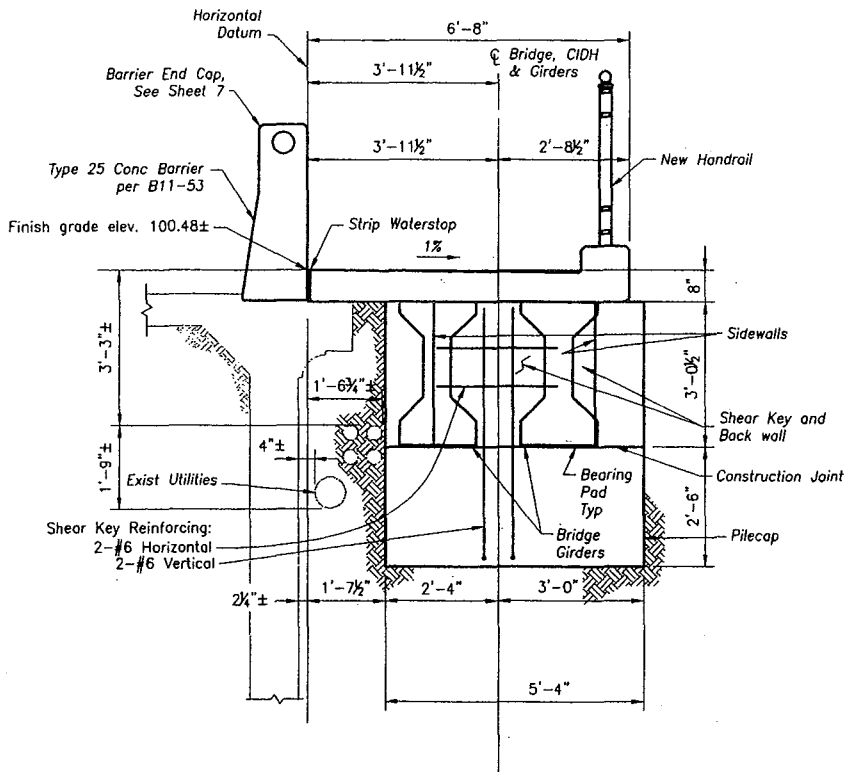
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SIGNOFF DATE	DETAILS	BY	D. Sedlachek	CHECKED	LAYOUT	BY	CHECKED
	QUANTITIES	BY	D. Sedlachek	CHECKED	SPECIFICATIONS	BY	PLANS AND SPECS COMPARED



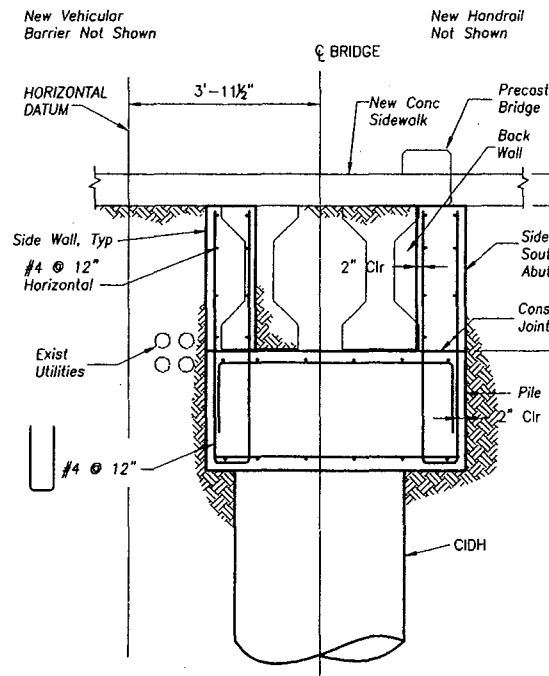
SHEAR KEY AND WALL REINFORCEMENT
SOUTH ABUTMENT SCALE: 1/2"=1'-0"



See DIAPHRAGM AND WALL REINFORCEMENT SOUTH ABUTMENT for details not noted here
SHEAR KEY AND WALL REINFORCEMENT
NORTH ABUTMENT SCALE: 1/2"=1'-0"

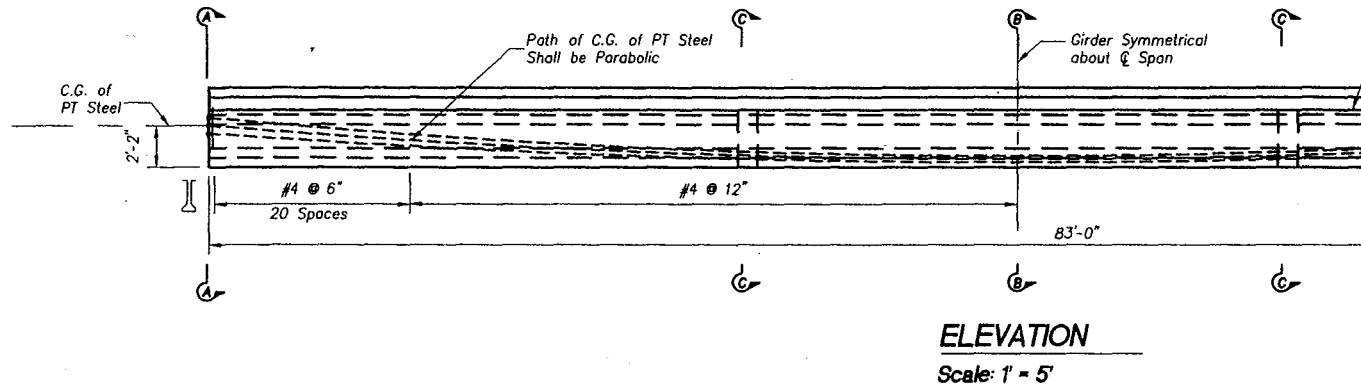
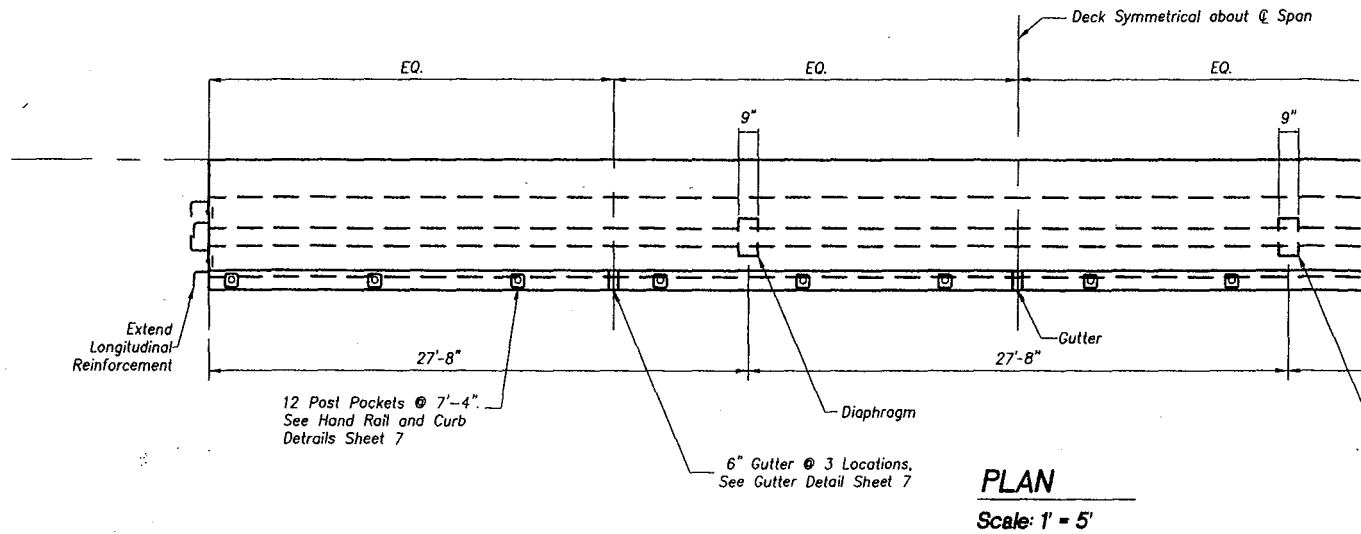


PRECAST CONC. BRIDGE SOUTH END ELEVATION
SECTION A-A SCALE: 1/2"=1'-0"

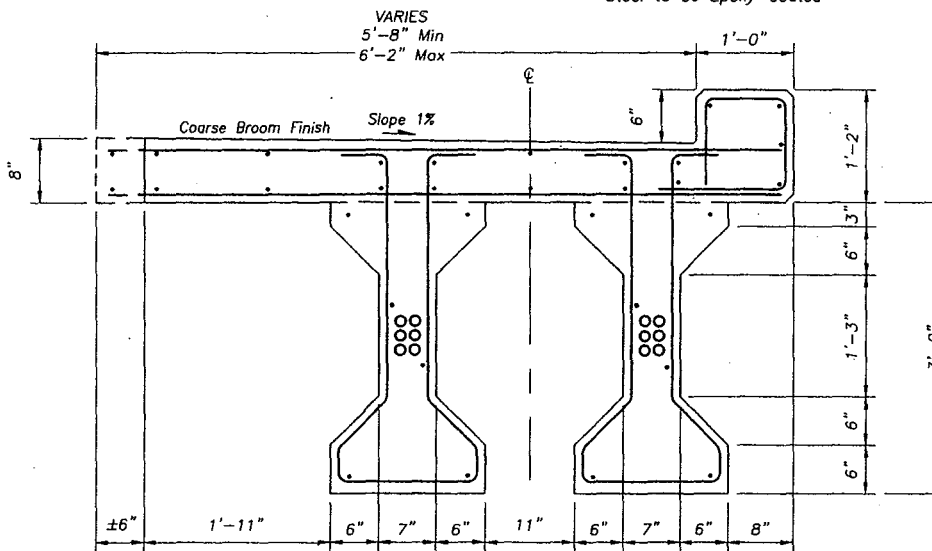


PILE CAP REINFORCEMENT
SECTION C-C SCALE: 1/2"=1'-0"

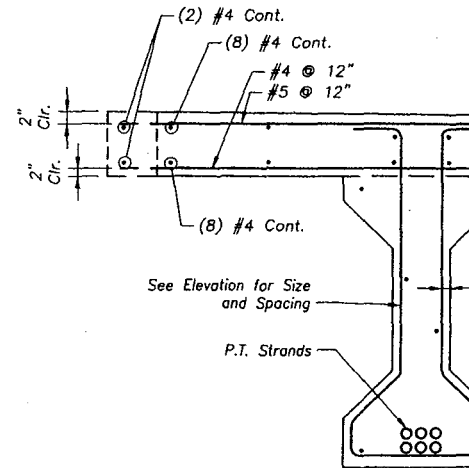
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SIGNOFF DATE	DETAILS	BY D. Sedlochek	CHECKED	LAYOUT	BY	CHECKED
	QUANTITIES	BY D. Sedlochek	CHECKED	SPECIFICATIONS	BY	PLANS AND SPECS COMPARED



NOTE: Deck and Curb Reinforcing Steel to be Epoxy-coated

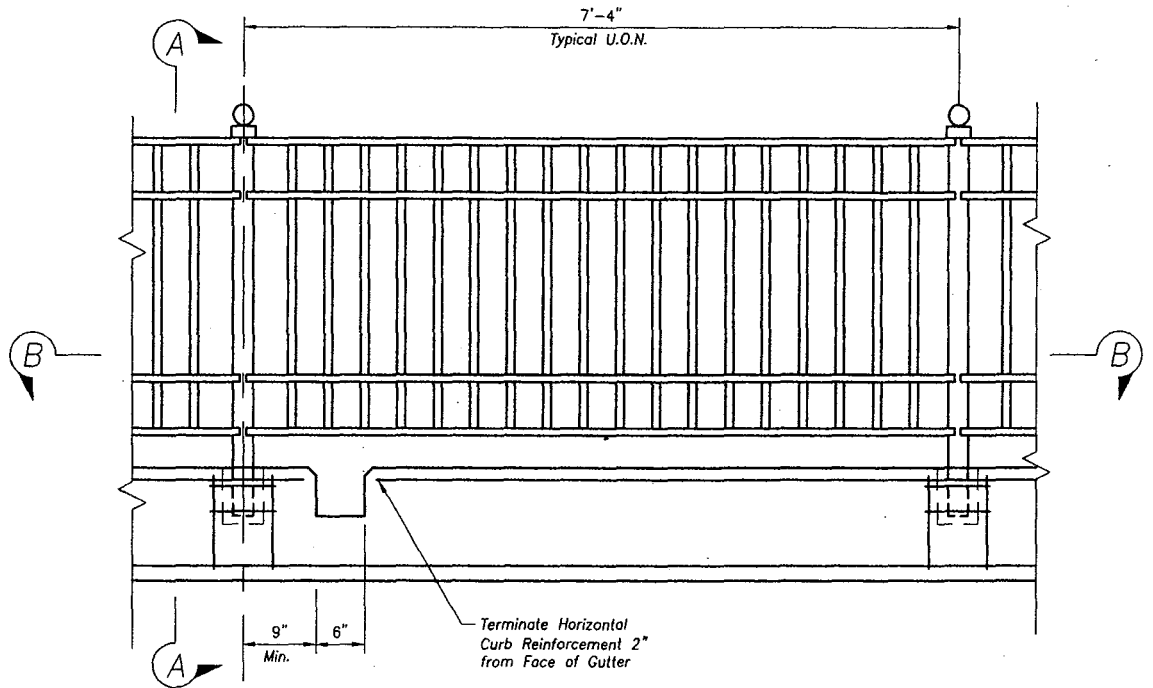


PRECAST CONC GIRDERS AND CIP DECK
SECTION A-A SCALE: 1' = 1'-0"



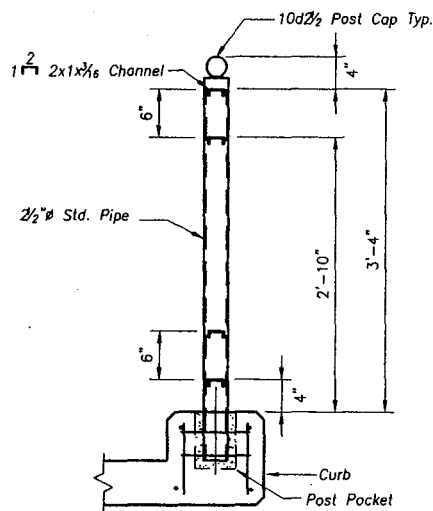
PRECAST CONC GIRDERS AND CIP DECK
SECTION B-B SCALE: 1' = 1'-0"

DESIGN OVERSIGHT	DESIGN	BY R. Ludke	CHECKED	LOAD FACTOR DESIGN	BY	CHECKED
SIGNOFF DATE	DETAILS	BY D. Sedlachek	CHECKED	LAYOUT	BY	CHECKED
	QUANTITIES	BY D. Sedlachek	CHECKED	SPECIFICATIONS	BY	PLANS AND SPECS COMPARED



HAND RAIL AND GUTTER DETAIL

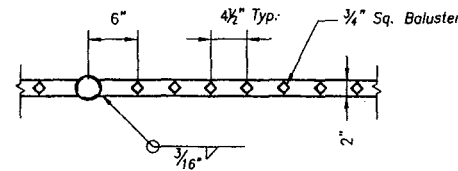
SCALE: 1"=1'-0"



See Std. Plans B11-51 for Add'l Information

SECTION A-A

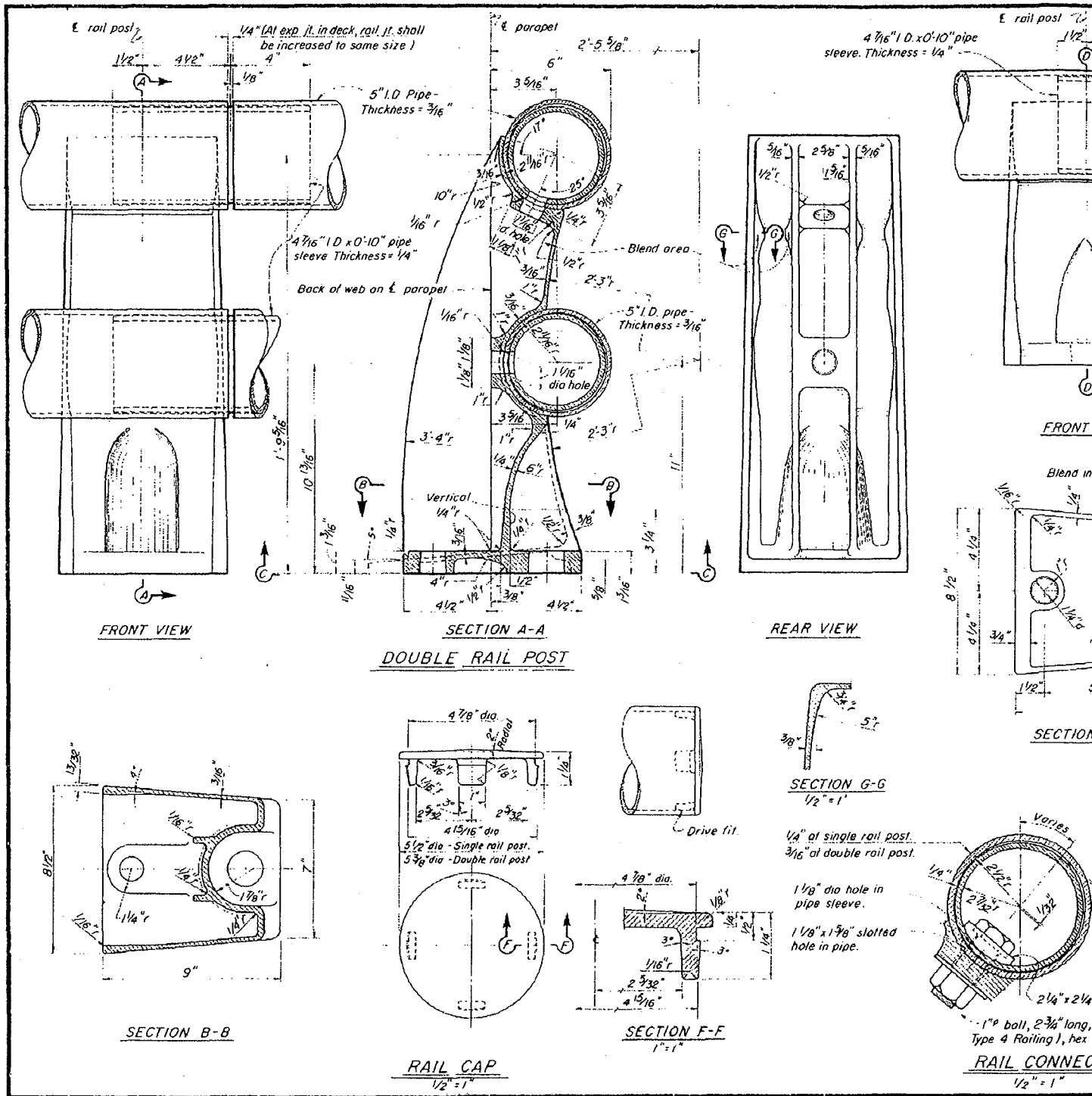
SCALE: 1"=1'-0"



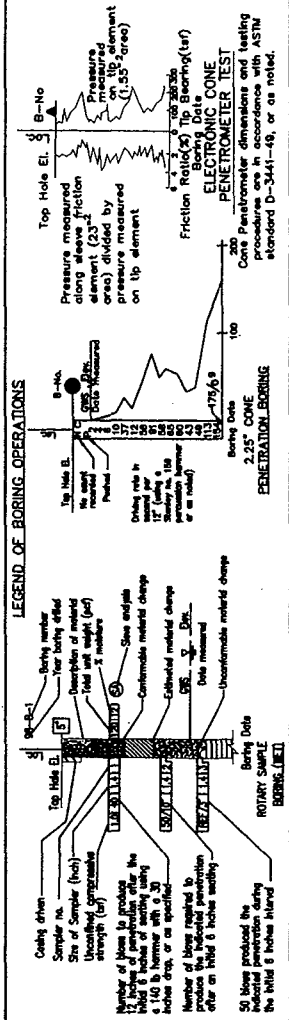
SECTION B-B

SCALE: 1"=1'-0"

DESIGN OVERSIGHT	DESIGN	BY	R. Ludke	CHECKED	LOAD FACTOR DESIGN		
SIGNOFF DATE	DETAILS	BY	D. Sedlacek	CHECKED	LAYOUT	BY	CHECKED
	QUANTITIES	BY	D. Sedlacek	CHECKED	SPECIFICATIONS	BY	PLANS AND SPECS COMPARED



DESIGN OVERSIGHT	DESIGN BY R. Ludke	CHECKED	LOAD FACTOR DESIGN	BY	CHECKED
SIGNOFF DATE	DETAILS BY D. Sedlachek	CHECKED	LAYOUT	BY	PLANS AND SPECS COMPARED
DES. ORD. 0138 (CADD. 1/80)	QUANTITIES BY D. Sedlachek	CHECKED	SPECIFICATIONS	BY	



- IN-SITU, LAB & FIELD TEST DESIGNATIONS**
- (A) ATTERBERG LIMITS
 - (B) CHEMICAL ANALYSIS
 - (C) CONSOLIDATION
 - (D) UNSATURATED SWELL
 - (E) DIRECT SHEAR
 - (F) S.W. DENSITY
 - (G) POKET PENETROMETER
 - (H) SOLE ANALYSIS
 - (I) TORQUE
 - (J) UNSATURATED COMPRESSION
 - (K) UNSATURATED SWELL
 - (L) VANE SHEAR

- TYPES OF BORINGS**
- 2.5" CONE PENETRATION
 - ROTARY WASH
 - ELECTRONIC CONE PENETROMETER (ECP)
 - ANER BORING
 - TEST PIT
 - DIAMOND CORE BORING
 - SOIL TUBE

- LEGEND OF EARTH MATERIALS (USCS)**
- BASED ON ASTM D2487, D2488
- POORLY GRADED SAND (SP)
 - MEDIUM GRADED SAND (SM)
 - WELL GRADED SAND (SW)
 - CLAY (CL or CI)
 - CLAY (ML or MI)
 - CLAY (MH or CH)
 - CLAYEY SAND (SC)
 - SANDY CLAY (SC)
 - COBBLES/ROLLERS
 - HEAVY SAND (SH)
 - VERY SANDY SILT (VS)
 - SILT (ML or MI)
 - CLAYEY SILT (MI)
 - CLAYEY SILT (MH)
 - CLAYEY SILT (SH)
 - CLAYEY SILT (CH)
 - CLAYEY SILT (SH)
 - CLAYEY SILT (CH)
 - CLAYEY SILT (SH)
 - CLAYEY SILT (CH)

CONSISTENCY CLASSIFICATION FOR SOILS

According to the Standard Penetration Test (ASTM D-1586)

SPN (Blows/ft)	Consistency
0-4	Very soft
5-10	Soft
11-20	Medium Dense
21-30	Dense
31-50	Very Dense
>50	Hard

NOTE: Visual classifications of earth materials are based on field inspection and are confirmed or revised with laboratory data, where necessary.

