
Bridge Inspection Records Information System

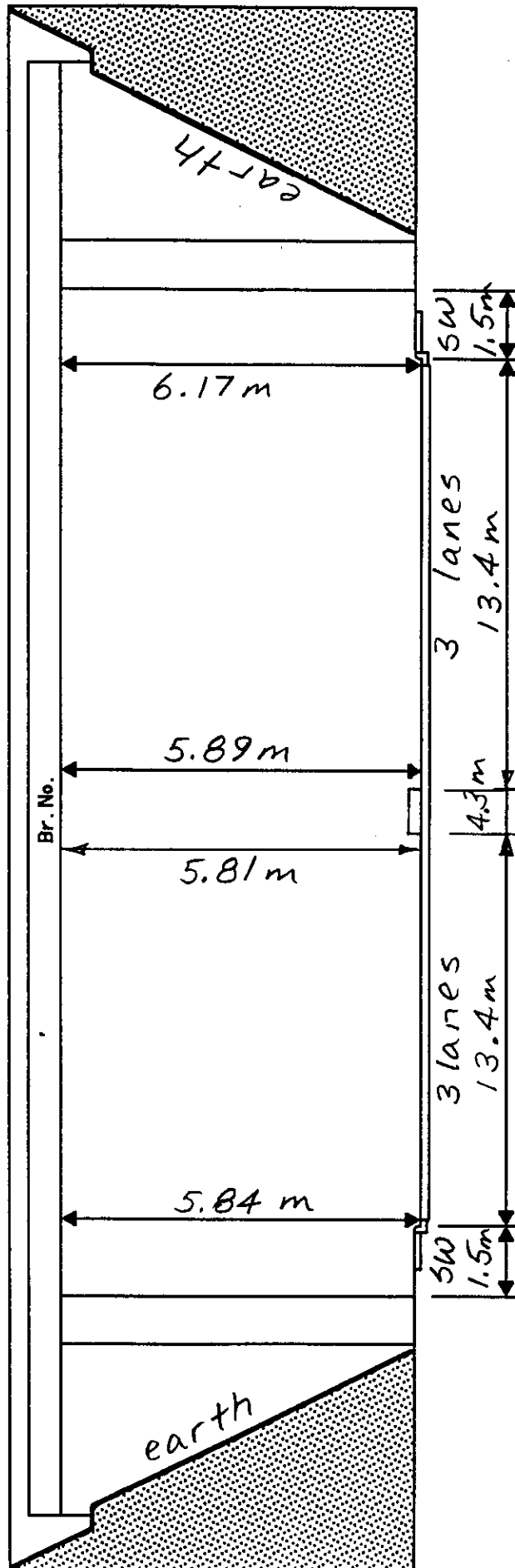
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State of California
Department of Transportation

**Division of Maintenance
Structures Maintenance & Investigations**

CLEARANCE DIAGRAM



BR. NO. 55C0651

BR. NAME 050 Parkway POC

LOCATION 12-00a-CR

Dist.-Co.-Rte.-PM-City

BY M. OGATA

DATE 6-12-01

Looking southwest on 050 Parkway



DEPARTMENT OF TRANSPORTATION
Structure Maintenance & Investigations

Bridge Number : 55C0651
Facility Carried: OSO PARKWAY POC
Location : 0.4 mi e/o Antonio Pkwy
City :
Inspection Date : 12-JUN-01

Bridge Inspection Report

Inspection Type
Routine ☒ Group A ☐ Underwater ☐ Special ☐ Other ☐

Name : OSO PARKWAY POC

CONSTRUCTION INFORMATION

Year Built : 1999
Year Widened : N/A
Length (m) : 63.3
Skew (degrees): 0
No. of Joints : 0
No. of Hinges : 0

Description of Structure : Continuous 3- span CIP/PS concrete box girder (2 cells) with RC single column bents, and RC open end seated diaphragm abutments, all supported upon 45 ton CIDH concrete piles, except Bent 2 is supported upon a spread footing.

Span Configuration : (w) 11.7 m, 38.7 m, 11.7 m (e) c/c

LOAD CAPACITY AND RATINGS

Design Live Load : PEDESTRIAN
Inventory Rating : metric tons
Operating Rating : metric tons
Permit Rating :
Posting Load : Type 3 N/A english tons Type 3S2 N/A english tons Type 3-3 N/A english tons
Calculation Method :
Calculation Method :

DESCRIPTION ON STRUCTURE

Bridge width : (n) 3.0 m (s)
Total Width : 3.0 m
Rail Description : none
Min. Vertical Clearance : Unimpaired
Net Width : N/A m
No. of Lanes :
Rail Code : NNNN

DESCRIPTION UNDER STRUCTURE

Facility Name	Func Class	Lanes	Horiz Clr (m)	Vert Clr (m)
OSO PARKWAY POC	19	6	13.4	5.81

Channel Description : none

CONDITION OF STRUCTURE

The structure is in excellent condition.

MISCELLANEOUS

ELEMENT LEVEL INSPECTION RATINGS

F#	Elem No.	Element Description	Env	Total Units Quantity	Qty in each Condition State				
					St. 1	St. 2	St. 3	St. 4	St. 5
01 12		Concrete Deck - Bare	2	193 sq.m.	193	0	0	0	0
01 104		P/S Conc Closed Web/Box Girder	2	63 m.	63	0	0	0	0
01 205		Reinforced Conc Column or Pile Extension	2	2 ea.	2	0	0	0	0
01 215		Reinforced Conc Abutment	2	6 m.	6	0	0	0	0
01 252		Cast-In-Drilled Hole Concrete Pile	2	1 ea.	1	0	0	0	0

WORK RECOMMENDATIONS - NONE

Bridge No.: 55C0651

Location: 0.4 mi e/o Antonio Pkwy

Inspection Date: 12-JUN-01

Inspected By : M. Ogata

M. Ogata

Registered Civil Engineer



CC : TMRut
Orange County

Bridge No.: 55C0651

Location: 0.4 mi e/o Antonio Pkwy

Inspection Date: 12-JUN-01

STRUCTURE INVENTORY AND APPRAISAL REPORT

***** IDENTIFICATION *****

(1) STATE NAME - CALIFORNIA 069
 (8) STRUCTURE NUMBER 55C0651
 (5) INVENTORY ROUTE(ON/UNDER) - UNDER A 40 00000N
 (2) HIGHWAY AGENCY DISTRICT 12
 (3) COUNTY CODE 059 (4) PLACE CODE 00000
 (6) FEATURE INTERSECTED - MEANDERING TRAIL
 (7) FACILITY CARRIED - OSO PARKWAY POC
 (9) LOCATION - 0.4 mi e/o Antonio Pkwy
 (11) MILEPOINT/KILOMETERPOINT
 (12) BASE HIGHWAY NETWORK - NOT ON NET 0
 (13) LRS INVENTORY ROUTE & SUBROUTE
 (16) LATITUDE 33 DEG 35 MIN 12 SEC
 (17) LONGITUDE 117 DEG 37 MIN 30 SEC
 (99) BORDER BRIDGE STATE CODE % SHARE %
 (99) BORDER BRIDGE STRUCTURE NUMBER

***** STRUCTURE TYPE AND MATERIAL *****

(43) STRUCTURE TYPE MAIN: MATERIAL - PRSTR CONC CONT
 TYPE - BOX BEAM OR GDR - MULTIPLE CODE 6 05
 (44) STRUCTURE TYPE APPR: MATERIAL -
 TYPE - CODE
 (45) NUMBER OF SPANS IN MAIN UNIT 3
 (46) NUMBER OF APPROACH SPANS 0
 (107) DECK STRUCTURE TYPE CIP CONCRETE CODE 1
 (108) WEARING SURFACE / PROTECTIVE SYSTEM:
 A) TYPE OF WEARING SURFACE - CONCRETE CODE 1
 B) TYPE OF MEMBRANE - NONE CODE 0
 C) TYPE OF DECK PROTECTION - NONE CODE 0

***** AGE AND SERVICE *****

(27) YEAR BUILT 1999
 (106) YEAR RECONSTRUCTED
 (42) TYPE OF SERVICE: CN - PEDESTRIAN-BICYCLE 3
 UNDER - HIGHWAY W/WO PEDESTRIAN 1
 (28) LANES: CN STRUCTURE UNDER STRUCTURE 06
 (29) AVERAGE DAILY TRAFFIC 20000
 (30) YEAR OF ADT 2000 (109) TRUCK ADT 1%
 (19) BYPASS, DETOUR LENGTH 3 KM

***** GEOMETRIC DATA *****

(48) LENGTH OF MAXIMUM SPAN 38.7 M
 (49) STRUCTURE LENGTH 63.3 M
 (50) CURB OR SIDEWALK: LEFT M RIGHT M
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 13.4 M
 (52) DECK WIDTH OUT TO OUT 3 M
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 13.4 M
 (33) BRIDGE MEDIAN - NO MEDIAN 0
 (34) SKEW 0 DEG (35) STRUCTURE FLARED NO
 (10) INVENTORY ROUTE MIN VERT CLEAR 5.81 M
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 13.4 M
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 99.99 M
 (54) MIN VERT UNDERCLEAR REF - HIGHWAY 5.81 M
 (55) MIN LAT UNDERCLEAR RT REF - HIGHWAY 1.5 M
 (56) MIN LAT UNDERCLEAR LT 4.3 M

***** NAVIGATION DATA *****

(38) NAVIGATION CONTROL - NOT APPLICABLE CODE N
 (111) PIER PROTECTION - NOT REQUIRED CODE 1
 (39) NAVIGATION VERTICAL CLEARANCE 0 M
 (116) VERT-LIFT BRIDGE NAV MIN VERT CLEAR 0 M
 (40) NAVIGATION HORIZONTAL CLEARANCE 0

***** SUFFICIENCY RATING *****

SUFFICIENCY RATING =
 STATUS =
 HEALTH INDEX = 100

***** CLASSIFICATION *****

CODE	DESCRIPTION	VALUE
(112)	NBIS BRIDGE LENGTH - YES	Y
(104)	HIGHWAY SYSTEM - NOT ON NHS	0
(26)	FUNCTIONAL CLASS - LOCAL URBAN	19
(100)	DEFENSE HIGHWAY - NOT STRAHNET	0
(101)	PARALLEL STRUCTURE - NONE EXISTS	N
(102)	DIRECTION OF TRAFFIC - TRAFFIC NOT CARRIED	0
(103)	TEMPORARY STRUCTURE -	
(105)	FEDERAL LANDS HIGHWAY - NOT APPLICABLE	0
(110)	DESIGNATED NATIONAL NETWORK - NOT ON NET	0
(20)	TOLL - ON FREE ROAD	3
(21)	MAINTAIN - COUNTY HIGHWAY AGENCY	2
(22)	OWNER - COUNTY HIGHWAY AGENCY	2
(37)	HISTORICAL SIGNIFICANCE - NOT ELIGIBLE	5

***** CONDITION *****

CODE	DESCRIPTION	VALUE
(58)	DECK	7
(59)	SUPERSTRUCTURE	8
(60)	SUBSTRUCTURE	7
(61)	CHANNEL & CHANNEL PROTECTION	N
(62)	CULVERTS	N

***** LOAD RATING AND POSTING *****

CODE	DESCRIPTION	VALUE
(31)	DESIGN LOAD - PEDESTRIAN	7
(63)	OPERATING RATING METHOD -	
(64)	OPERATING RATING -	
(65)	INVENTORY RATING METHOD -	
(66)	INVENTORY RATING -	
(70)	BRIDGE POSTING -	
(41)	STRUCTURE OPEN, POSTED OR CLOSED -	A
	DESCRIPTION - OPEN, NO RESTRICTION	

***** APPRAISAL *****

CODE	DESCRIPTION	VALUE
(67)	STRUCTURAL EVALUATION	*
(68)	DECK GEOMETRY	*
(69)	UNDERCLEARANCES, VERTICAL & HORIZONTAL	4
(71)	WATER ADEQUACY	N
(72)	APPROACH ROADWAY ALIGNMENT	N
(36)	TRAFFIC SAFETY FEATURES	NNNN
(113)	SCOUR CRITICAL BRIDGES	

***** PROPOSED IMPROVEMENTS *****

CODE	DESCRIPTION	VALUE
(75)	TYPE OF WORK -	
(76)	LENGTH OF STRUCTURE IMPROVEMENT	M
(94)	BRIDGE IMPROVEMENT COST	
(95)	ROADWAY IMPROVEMENT COST	
(96)	TOTAL PROJECT COST	
(97)	YEAR OF IMPROVEMENT COST ESTIMATE	
(114)	FUTURE ADT	30000
(115)	YEAR OF FUTURE ADT	2020

***** INSPECTIONS *****

CODE	DESCRIPTION	VALUE
(90)	INSPECTION DATE 06/01	(91) FREQUENCY 24 MO
(92)	CRITICAL FEATURE INSPECTION:	(93) CFI DATE
A)	FRACTURE CRIT DETAIL -	-1 MO A)
B)	UNDERWATER INSP -	NO -1 MO B)
C)	OTHER SPECIAL INSP -	NO -1 MO C)

IMPROVEMENT PLANS FOR OSO PARKWAY PEDESTRIAN BRIDGE LAS FLORES

GENERAL NOTES

STREET IMPROVEMENTS

- THIS NOTE HEREIN INCORPORATES, BY REFERENCE, THOSE GENERAL NOTES NUMBERED 1 THROUGH 22 OF PF&RD STANDARD PLAN 1801, 1996 EDITION.
- ALL WORK MUST BE IN CONFORMANCE WITH THE CURRENT ORANGE COUNTY PF&RD STANDARD PLANS AND STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION LATEST EDITIONS, WHICH MUST BE KEPT ON THE WORKSITE AT ALL TIMES.
- THE DEVELOPER SHALL TELEPHONE PF&RD/PUBLIC WORKS/CONSTRUCTION AT 567-7800 AT LEAST 24 HOURS PRIOR TO STARTING CONSTRUCTION WORK SUBJECT TO PF&RD/PUBLIC WORKS' INSPECTION.
- PF&RD ENCROACHMENT PERMIT REQUIRED. PF&RD APPROVED PLANS DO NOT RELIEVE CONTRACTOR/DEVELOPER FROM RESPONSIBILITY TO OBTAIN A PUBLIC PROPERTY PERMIT WHICH SHALL BE AVAILABLE ON THE JOB AT ALL TIMES WORK IS BEING ACCOMPLISHED IN THE PUBLIC RIGHT-OF-WAY.
- ALL CONCRETE CURB AND GUTTER FLOWLINES WITH LESS THAN 1% GRADE SHALL BE WATER TESTED PRIOR TO FINAL FINISHING TO INSURE PROPER DRAINAGE WITHOUT UNACCEPTABLE HIGH OR LOW SPOTS.
- ALL UTILITY TRENCH BACKFILL AND COMPACTION INSPECTION SHALL BE PERFORMED BY PF&RD CONSTRUCTION.
- ALL DAMAGED CONCRETE SIDEWALKS OR CURBS SHALL BE SAWCUT TO THE NEAREST TRANSVERSE SCORE MARK OR ADJUSTABLE CONTROL JOINT OR WEAKENED PLANE JOINT AND REPLACED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF PF&RD STANDARD
- DEVELOPER SHALL MAINTAIN ADJACENT STREETS IN A NEAT, CLEAN, DUST FREE AND SANITARY CONDITION AT ALL TIMES AND TO THE SATISFACTION OF COUNTY'S INSPECTOR. THE ADJACENT STREET SHALL BE KEPT CLEAN OF DEBRIS, WITH DUST AND OTHER NUISANCE BEING CONTROLLED AT ALL TIMES. DEVELOPER SHALL BE RESPONSIBLE FOR ANY CLEAN UP ON ADJACENT STREET AFFECTED BY HIS CONSTRUCTION. METHOD OF STREET CLEANING SHALL BE BY DRY SWEEPING OF ALL PAVED AREAS. NO STOCKPILING OF BUILDING MATERIALS WITHIN THE COUNTY RIGHT-OF-WAY WITHOUT THE PERMISSION OF COUNTY'S INSPECTOR.
- PRIOR TO FINAL ACCEPTANCE OF STREET IMPROVEMENTS, ALL STREET PAVEMENT, STRIPING AND STENCILING WITHIN THE PERIMETER OF THE CONSTRUCTION PROJECT WILL BE RESTORED TO A "LIKE NEW" CONDITION, IN A MANNER MEETING THE APPROVAL OF THE DIRECTOR OF PUBLIC WORKS. ALL STRIPING AND STENCILING SHALL BE ACCORDING TO STANDARD PLAN NO. 1801, NOTE 18.
- TRAFFIC SHALL BE MAINTAINED AT ALL TIMES AND SHALL BE PROTECTED WITH ADEQUATE BARRICADES, LIGHTS, SIGNS AND WARNING DEVICES AS PER THE CURRENT STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, MANUAL OF TRAFFIC CONTROLS, AND TO THE DIRECTIONS OF THE COUNTY'S INSPECTOR.
- PF&RD STANDARD PLANS SHALL TAKE PRECEDENCE OVER ANY CONFLICTS EXCEPT FOR STANDARD PLANS AFFECTING UTILITY COMPANIES, IF THEIR STANDARDS ARE MORE STRINGENT.
- ALL TRAFFIC MARKINGS AND STRIPING SHALL BE STENCILS WHICH CONFORM WITH FEDERAL TRANSPORTATION METRIC STANDARDS.
- SURVEY MONUMENTS SHALL BE PRESERVED AND REFERENCED BEFORE CONSTRUCTION AND REPLACED AFTER CONSTRUCTION PURSUANT TO SECTION 8771 OF THE BUSINESS AND APPROVAL.
- WHEREVER EXISTING PAVEMENT JOINS ANY PROPOSED PAVEMENT, DEVELOPER SHALL SAWCUT, OVERLAY OR COLD PLANE TO PROVIDE A UNIFORM 1.7% CROSSFALL TO THE SATISFACTION OF PF&RD FIELD INSPECTOR.
- ALL INSTALLATIONS AND WORK AFFECTING COUNTY PROPERTIES OR FACILITIES SHALL CONFORM WITH STANDARD SPECIFICATIONS, STANDARD PLANS, AND WITH THE PROVISIONS OF THE CONSTRUCTION PERMIT GRANTED BY COUNTY'S PUBLIC PROPERTY PERMITS DIVISION. CONTRACTOR SHALL MAINTAIN A COPY OF SAID PERMIT AND STAMPED PLANS ON THE JOB SITE. USE OF COUNTY PROPERTY AND CONFORMANCE WITH THE ABOVE SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY COUNTY'S DUTY ASSIGNED INSPECTOR.

NOTICE TO CONTRACTORS

ALL UNDERGROUND UTILITIES OR STRUCTURES REPORTED BY THE OWNER OR OTHERS, AND THOSE SHOWN ON THE RECORDS EXAMINED, ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT. THE OWNER, BY ACCEPTING THESE PLANS OR PROCEEDING WITH THE IMPROVEMENTS PURSUANT THERETO, AGREES TO ASSUME LIABILITY AND TO HOLD UNDERSIGNED HARMLESS FOR ANY DAMAGES RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED TO THE UNDERSIGNED, NOT INDICATED ON THE PUBLIC RECORDS EXAMINED, LOCATED AT VARIANCE WITH THOSE REPORTED OR SHOWN ON RECORDS EXAMINED. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES SHOWN AND ANY OTHER UTILITIES OR STRUCTURES FOUND AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK.

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THIS PLAN ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN AND ANY OTHER LINES OR STRUCTURES NOT SHOWN ON THESE PLANS.

ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK SHOWN ON OR RELATED TO THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT ALL EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATION" OF THE U.S. DEPARTMENT OF LABOR, AND WITH THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS' "CONSTRUCTION SAFETY ORDERS."

THE CIVIL ENGINEER SHALL NOT BE RESPONSIBLE IN ANY WAY FOR THE CONTRACTORS' AND SUB-CONTRACTORS' COMPLIANCE WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATIONS" OF THE U.S. DEPARTMENT OF LABOR OR WITH THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS' "CONSTRUCTION SAFETY ORDERS."

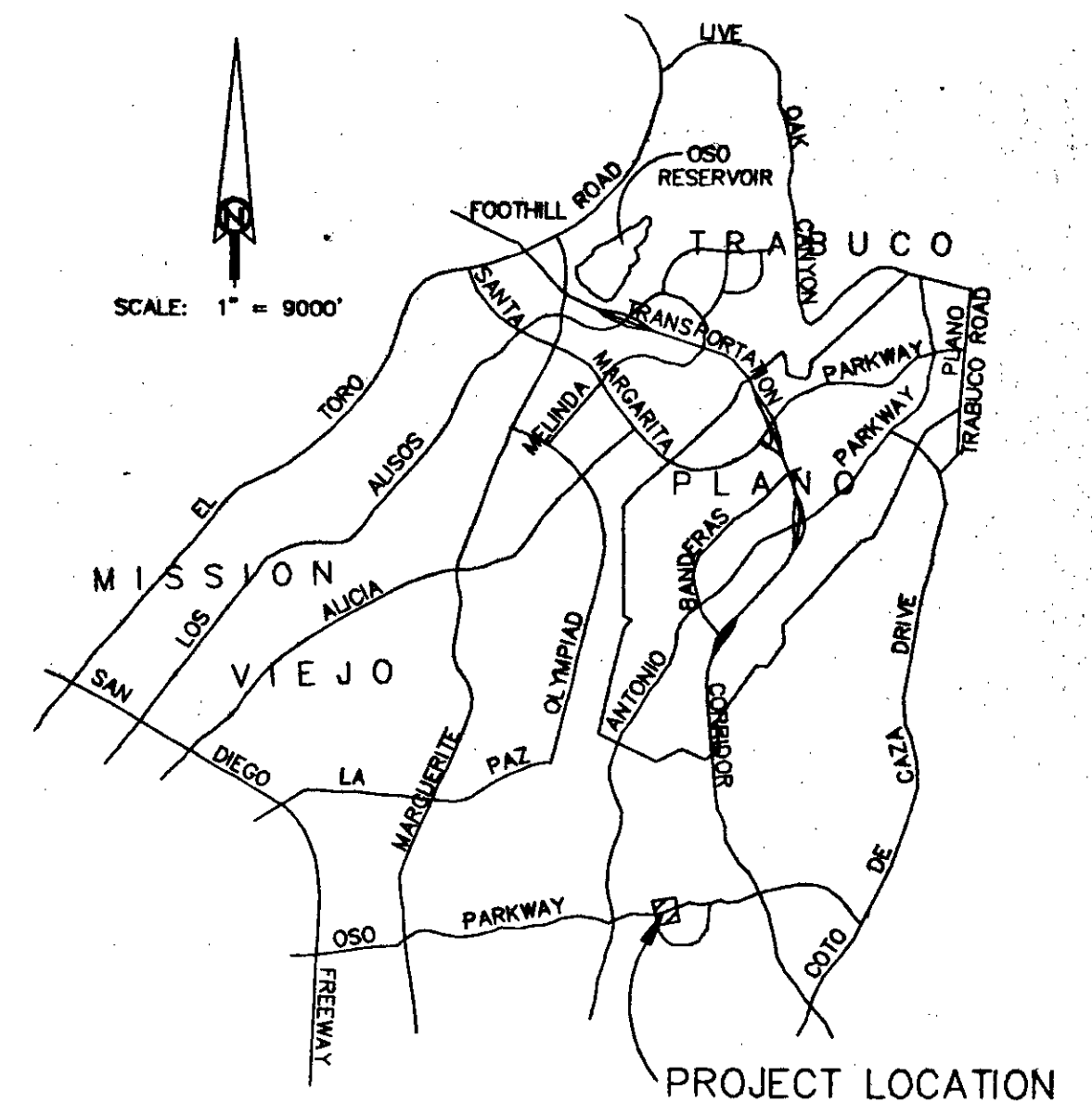
CONTRACTOR FURTHER AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

THE ESTIMATED QUANTITIES HEREON ARE ONLY FOR THE PURPOSE OF OBTAINING THE NECESSARY PERMITS, AND WILLIAMSON & SCHMID DOES NOT GUARANTEE THE ACCURACY OF THE ESTIMATED QUANTITIES. THE CONTRACTOR SHALL PERFORM HIS OWN QUANTITY TAKEOFF BEFORE SUBMITTING A BID FOR ANY PORTION OF THE IMPROVEMENTS COVERED BY THESE PLANS.

UNAUTHORIZED CHANGES & USES

CAUTION: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

BRIDGE CONSTRUCTION TO BE IN ACCORDANCE WITH GEOTECHNICAL REPORT BY GOFFMAN, MCCORMICK AND URBAN, INC. DATED 11/26/97



LOCATION MAP

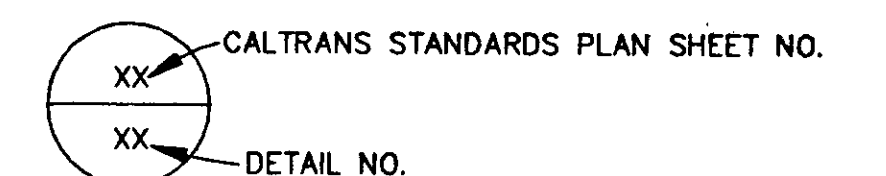
TBM pg. 922 G-4

INDEX TO PLANS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GENERAL PLAN
3	FOUNDATION PLAN AND DECK CONTOURS
4	ABUTMENT DETAILS NO.1
5	ABUTMENT DETAILS NO.2
6	ABUTMENT DRAINAGE DETAILS
7	BENT DETAILS
8	GIRDER DETAILS
9	ARCHITECTURAL DETAILS
10	LOG OF TEST BORINGS

CALTRANS STANDARD PLANS DATED JULY 1992

A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE
B0-3	BRIDGE DETAILS
B0-5	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B2-3	16" CAST-IN-DRILLED-HOLE CONCRETE PILE
B3-9	RETAINING WALL DETAILS NO.2
B6-21	B6-21 JOINT SEALS (MAXIMUM MOVEMENT RATING =2")
B7-1	BOX GIRDER DETAILS
B7-5	DECK DRAINS
B8-5	CAST-IN-PLACE PRESTRESSED GIRDER DETAILS



NOTICE TO CONTRACTOR

PURSUANT TO ASSEMBLY BILL 3019, NO EXCAVATION PERMIT IS VALID UNLESS THE FOLLOWING IS PERFORMED.

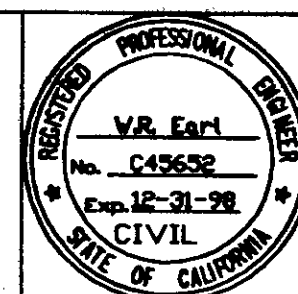
- UNDERGROUND SERVICE ALERT HAS BEEN CONTACTED AND HAS PROVIDED INQUIRED I.D. NUMBER.
- THE UNDERSIGNED AGREES TO CONTACT AND OBTAIN AN INQUIRED I.D. NUMBER FROM UNDERGROUND SERVICE ALERT (1-800-422-4133) AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION.

NO.	DESCRIPTION	BY/DATE	APPROVED/DATE

BENCH MARK ORANGE COUNTY BENCH MARK DESIGNATION JEE-8-72 LOCATED APPROXIMATELY 4000 FEET NORTHERLY OF CENTERLINE INTERSECTION OF OSO AND ANTONIO PARKWAYS, AND 700 FEET WESTERLY OF CENTERLINE OF ANTONIO PARKWAY, 90 FEET NORTHEAST OF HORIZONTAL CONTROL STATION 3-2-5-7-7. 3 FEET EAST OF A STEEL WITNESS POST, SET IN THE TOP OF A CONCRETE POST, 0.6 FEET HIGHER THAN GROUND.
1976 ADJUSTMENT ELEV. = 643.748
BASIS OF BEARINGS THE BEARINGS SHOWN ON THESE PLANS ARE BASED UPON THE LINE BETWEEN TRIANGULATION STATIONS (NGS BRASS CAP STAMPED PLANO 1939) AND (OCS 6-7-10) BEING N9°01'32"E PER THE CALIFORNIA COORDINATE SYSTEM ZONE VI, 1975 DATUM ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR

OWNER/DEVELOPER LAS FLORES COMMUNITY L.P. 600 ANTON BLVD STE 1350 COSTA MESA, CALIFORNIA 92626 (714) 825-1750
ENCROACHMENT PERMIT NO. 97-02332-RE
COUNTY OF ORANGE APPROVED PLANS DO NOT RELIEVE CONTRACTOR/DEVELOPER FROM RESPONSIBILITY TO OBTAIN PUBLIC PROPERTY PERMIT WHICH SHALL BE AVAILABLE ON THE JOB SITE AT ALL TIMES WHEN WORK IS BEING ACCOMPLISHED IN PUBLIC RIGHT OF WAY

MAINTENANCE NOTE THE PEDESTRIAN BRIDGE IS A PRIVATELY OWNED AND MAINTAINED FACILITY AND WILL BE MAINTAINED BY THE LAS FLORES COMMUNITY, LP., ITS SUCCESSORS OR ASSIGNS.
COUNTY OF ORANGE PLANNING AND DEVELOPMENT SERVICES THIS PLAN IS SIGNED BY PLANNING AND DEVELOPMENT SERVICES FOR CONCEPT AND ADHERENCE TO COUNTY STANDARDS AND REQUIREMENTS ONLY. PLANNING & DEVELOPMENT SERVICES IS NOT RESPONSIBLE FOR DESIGN ASSUMPTIONS OR ACCURACY. <i>Patrick Stanton</i> APPROVED BY R.C.E. NO. DATE 4/20/98

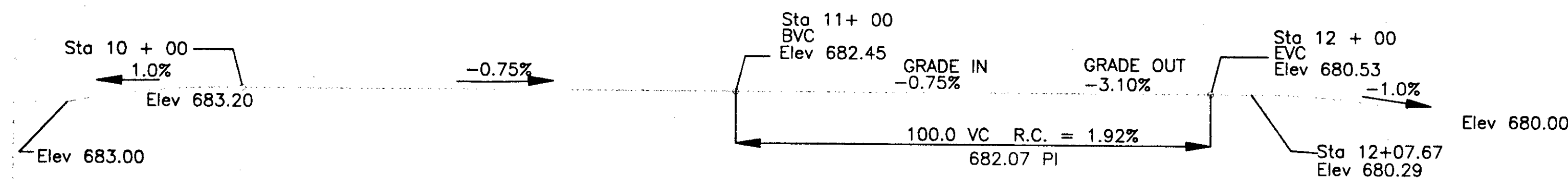


HUITT-ZOLIARS Huitt-Zoliars, Inc. 1901 Red Hill Avenue, Tustin, CA 92780 (714) 258-7800 PREPARED UNDER THE SUPERVISION OF <i>William R. Earl</i> WILLIAM R. EARL R.C.E. EXPRESS DATE 1-28-98
IMPROVEMENT PLANS FOR OSO PARKWAY PEDESTRIAN BRIDGE LAS FLORES
SHEET 1 OF 10 SHEETS JOB NO. 10-0402-01

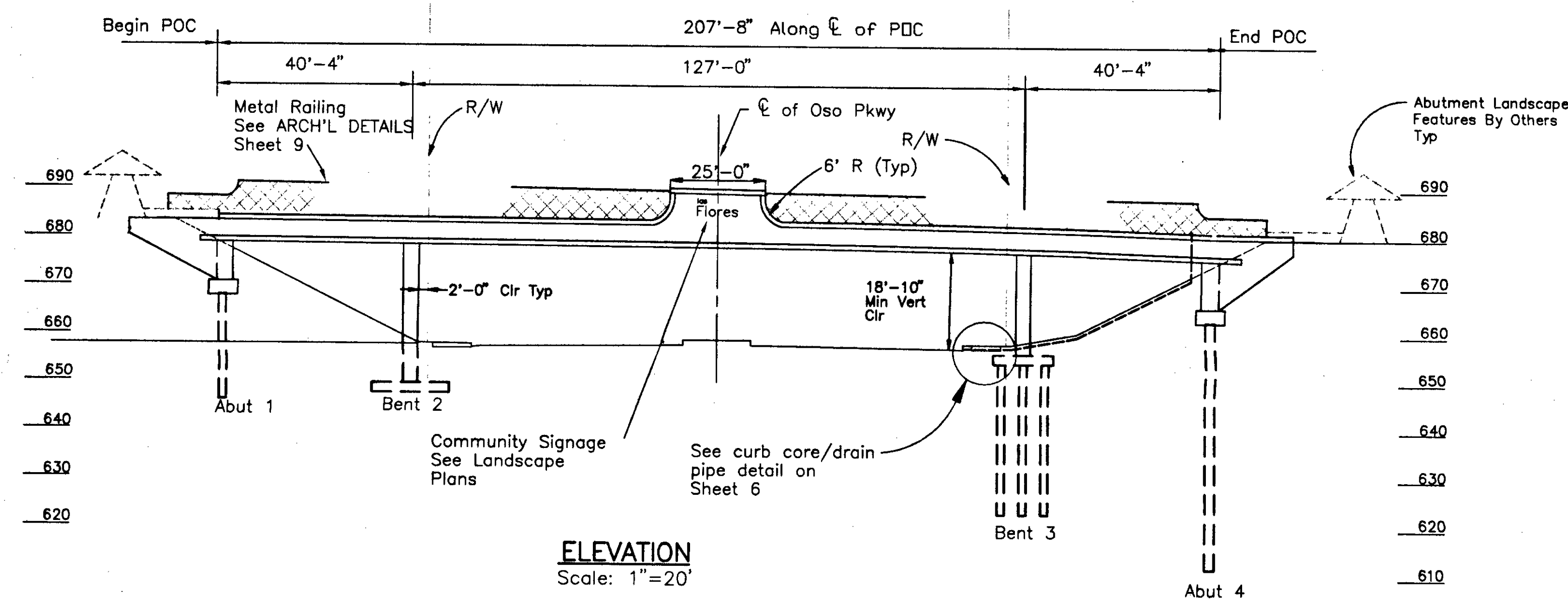
DR. 14 C/16x2325

PILE DATA - CIDH CONCRETE PILES

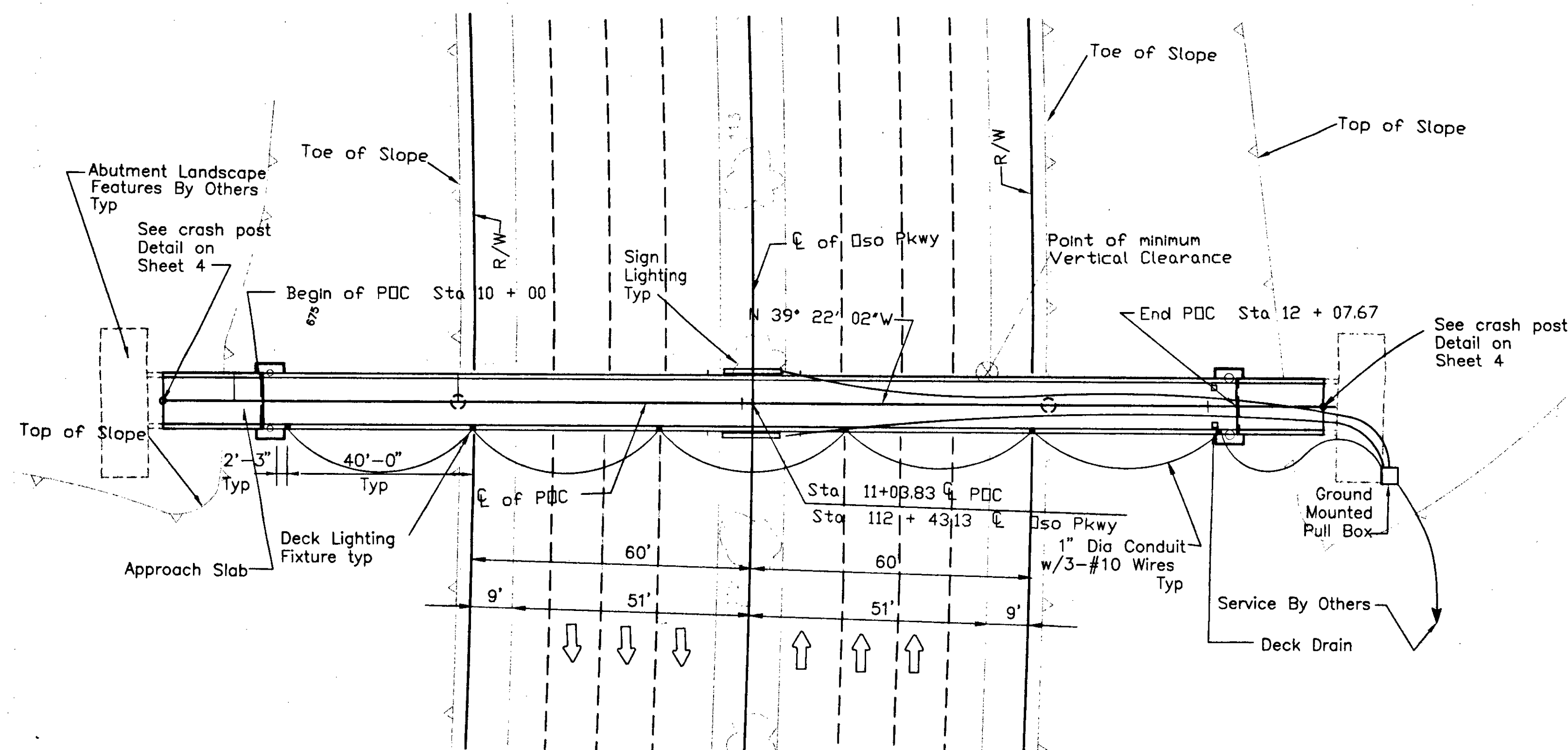
Location	Diameter	Design Loading (Service)	Nominal Resistance Compression	Nominal Resistance Tension	Design Tip Elevation	Specified Tip Elevation
Abutment 1	16"	45 tons	20 kips	20 kips	646	646
Bent 3	16"	45 tons	160 kips	-0-	623	623
Abutment 4	24"	45 tons	20 kips	20 kips	642	612



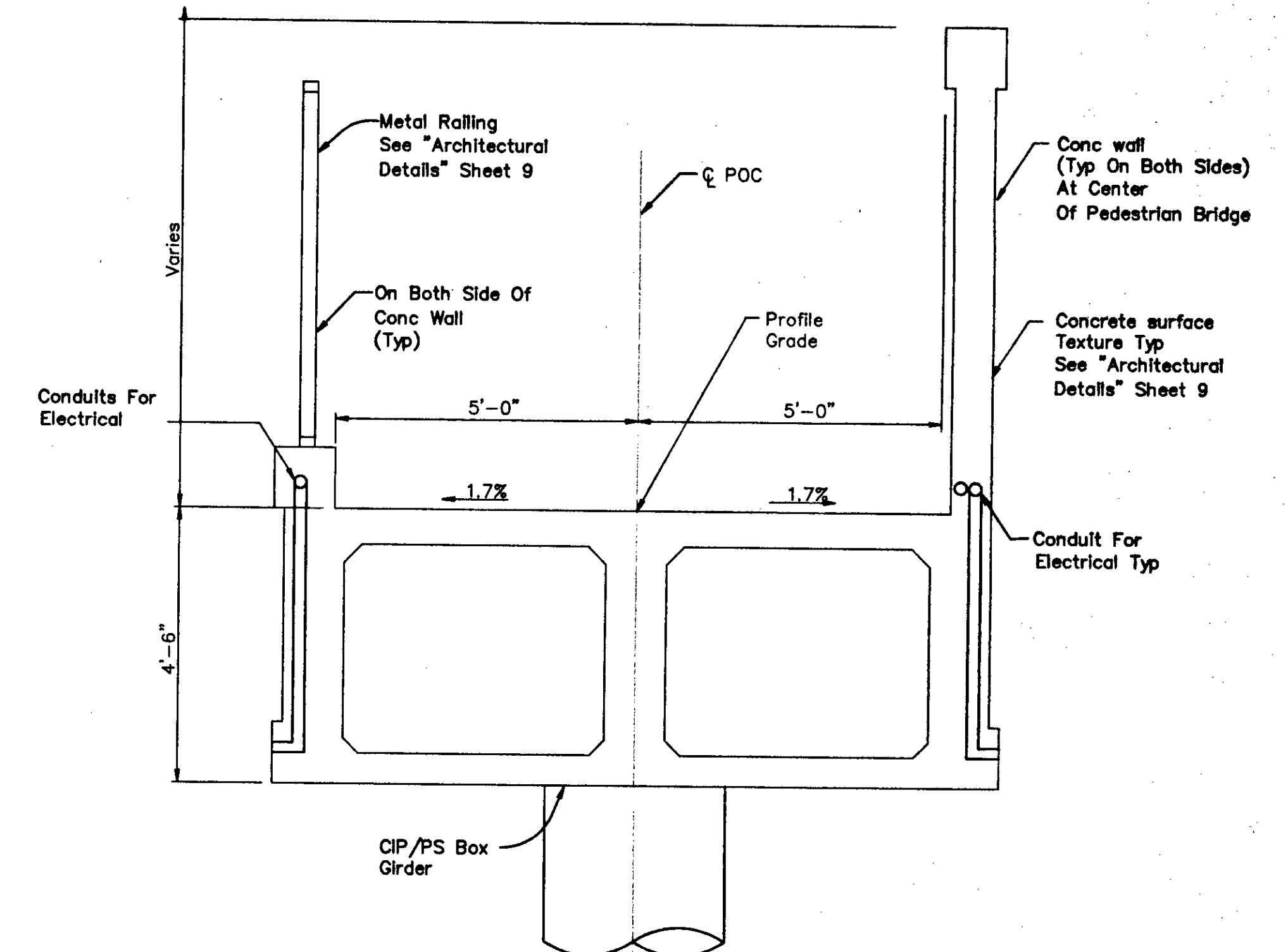
PROFILE GRADE
No Scale



ELEVATION
Scale: 1"=20'



PLAN
Scale: 1"=20'



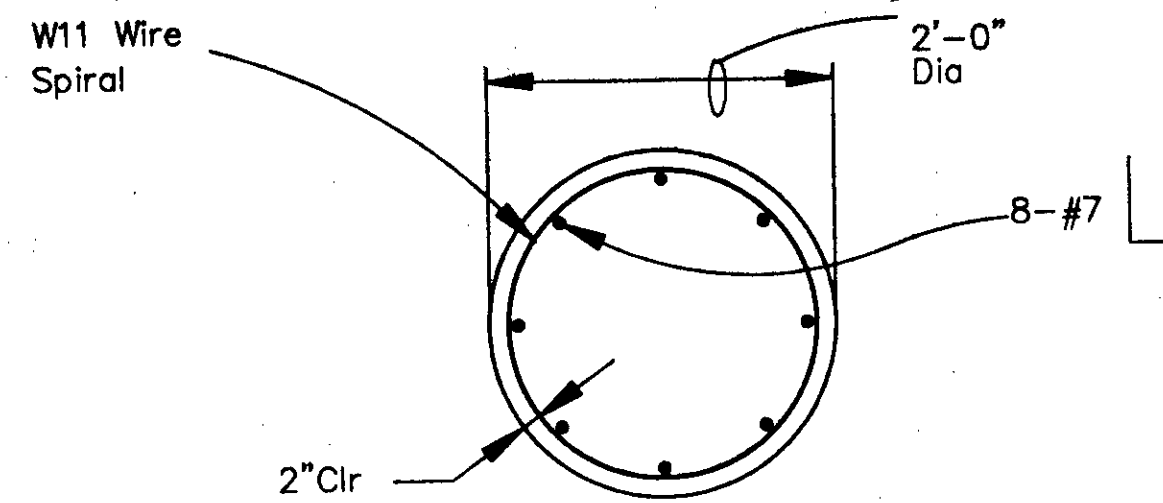
TYPICAL SECTION
SCALE 1/2" = 1'-0"

GENERAL NOTES LOAD FACTOR DESIGN

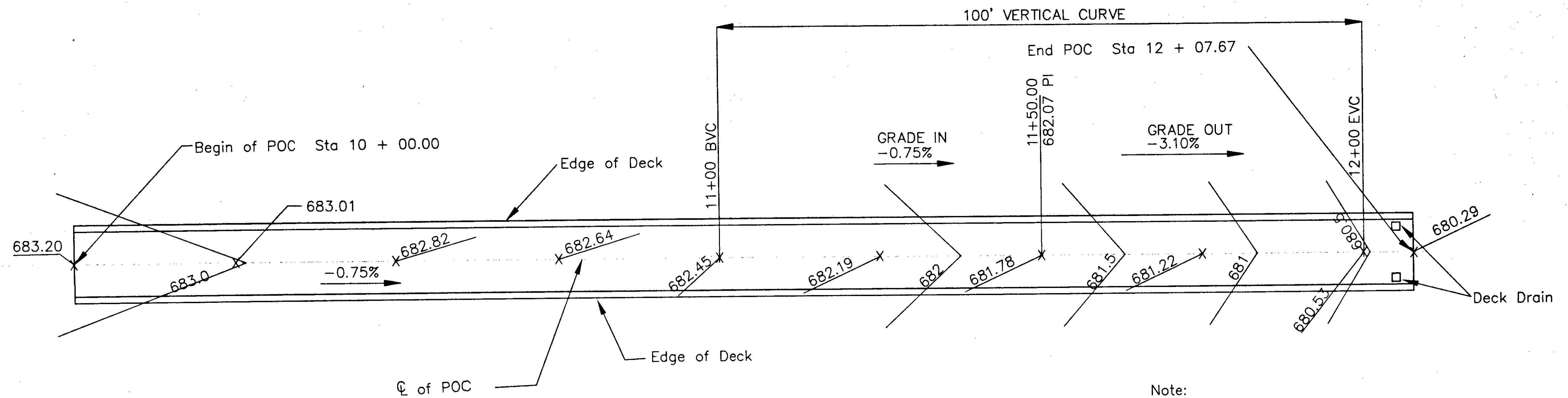
- DESIGN : BRIDGE DESIGN SPECIFICATIONS (1983 AASHTO WITH INTERIMS AND REVISIONS BY CALTRANS)
- LIVE LOADING : PEDESTRIAN (85psf)
- SEISMIC LOADING : PEAK ROCK ACCELERATION 0.3g DEPTH TO ALLUVIUM 10'-80'
- REINFORCED CONCRETE : REINFORCED CONCRETE: F_y = 60 KSI
F_c = 3.5 KSI
TRANSVERSE DECK SLAB
f_s = 20 KSI
f_c = 1.8 KSI
n = 10
- PRESTRESSED CONCRETE : SEE PRESTRESSING NOTES ON SHEET 6
- FOUNDATION : SPREAD FOOTINGS
5 KSF DEAD + LIVE
6.5 KSF DEAD + SEISMIC

BR # 55C0651 GENERAL PLAN OSO PARKWAY PEDESTRIAN BRIDGE LAS FLORES			SHEET 2 OF 10 SHEETS
HUITT-ZOLIARS 19101 Red Hill Avenue, Tustin, CA 92780 (714) 250-7900 PREPARED UNDER THE SUPERVISION OF <i>William R. Earl</i> WILLIAM R. EARL		DESIGNED BY WRE DRAWN BY MMF/LL CHECKED BY RJM FIELD BOOK	DATE 1-28-98

DR. 14 (16X2.32)

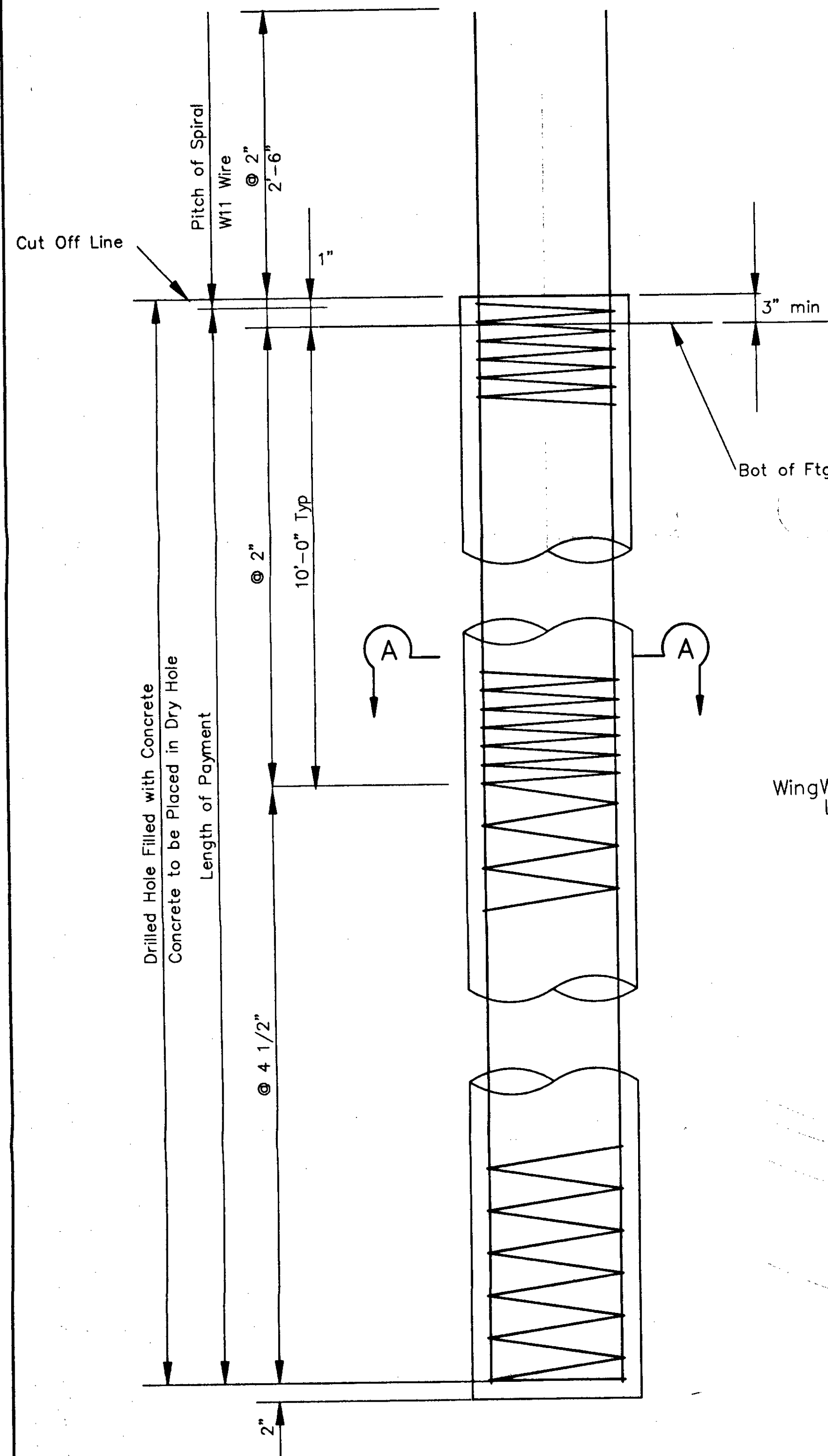


SECTION A-A
SCALE 3/4" = 1'-0"

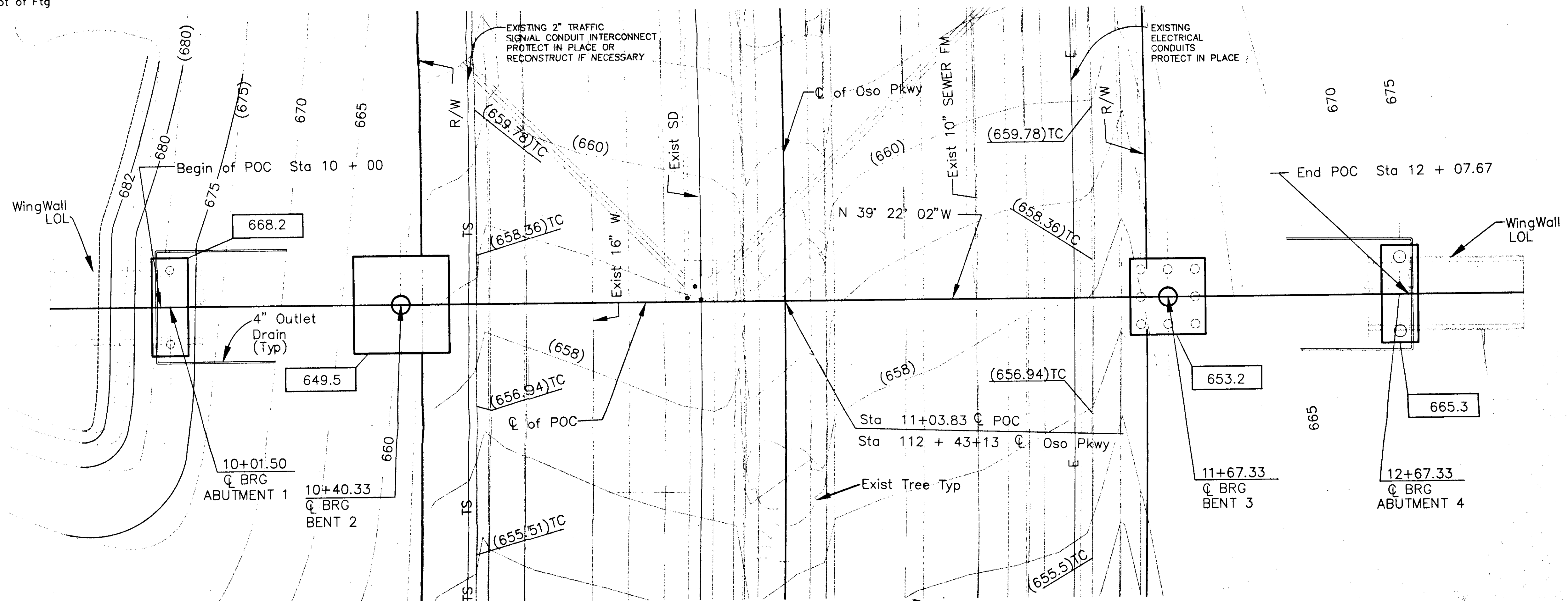


DECK CONTOURS
Scale: 1"=10'

Note:
Contours Do Not Include Camber
Contour Interval 0.5'
X - Indicates Spot Elevation



24" CIDH PILE DETAIL
SCALE 3/4" = 1'-0"



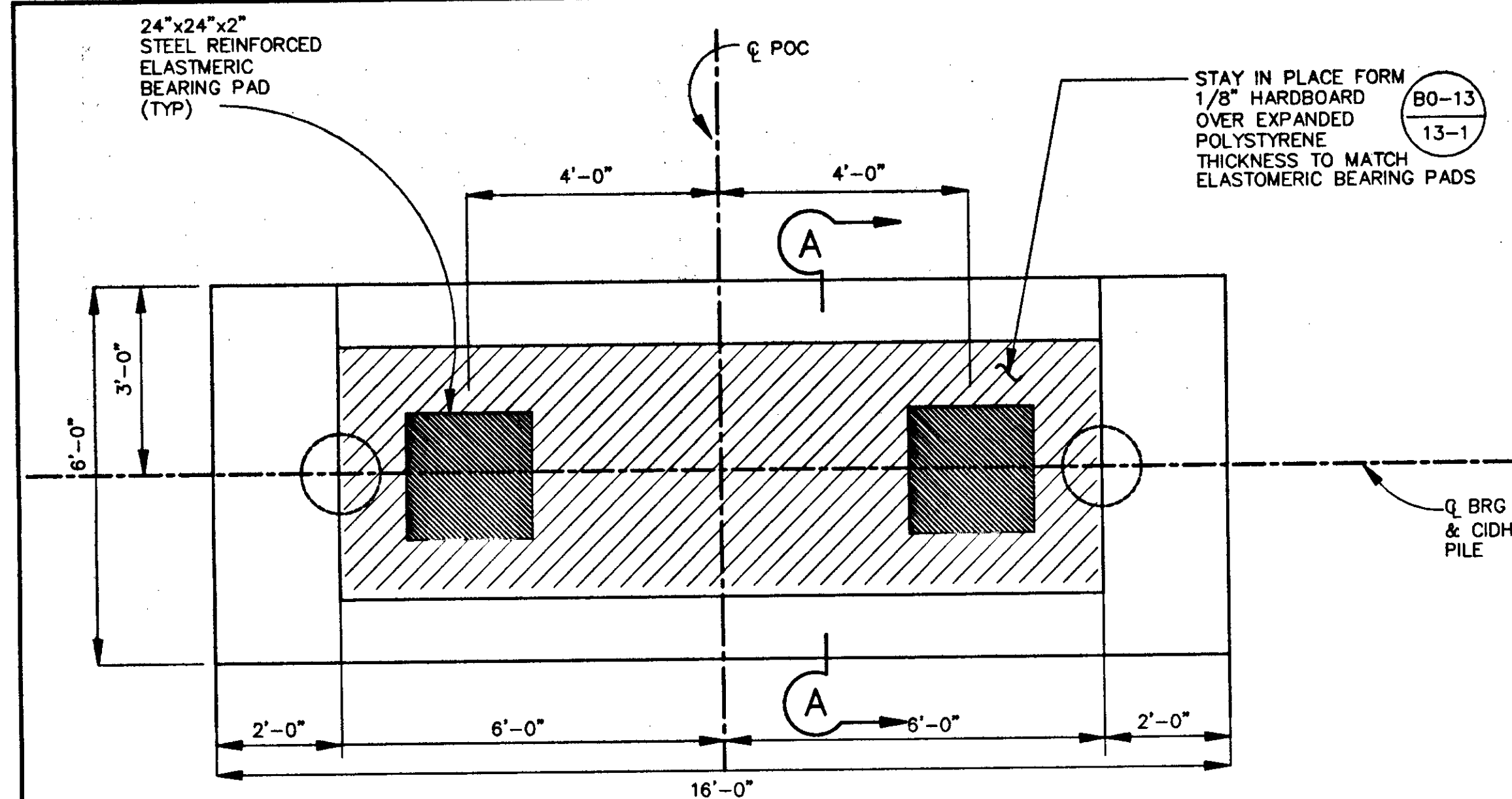
FOUNDATION PLAN
Scale: 1"=10'

INDICATES ELEVATION AT
THE BOTTOM OF FOOTING

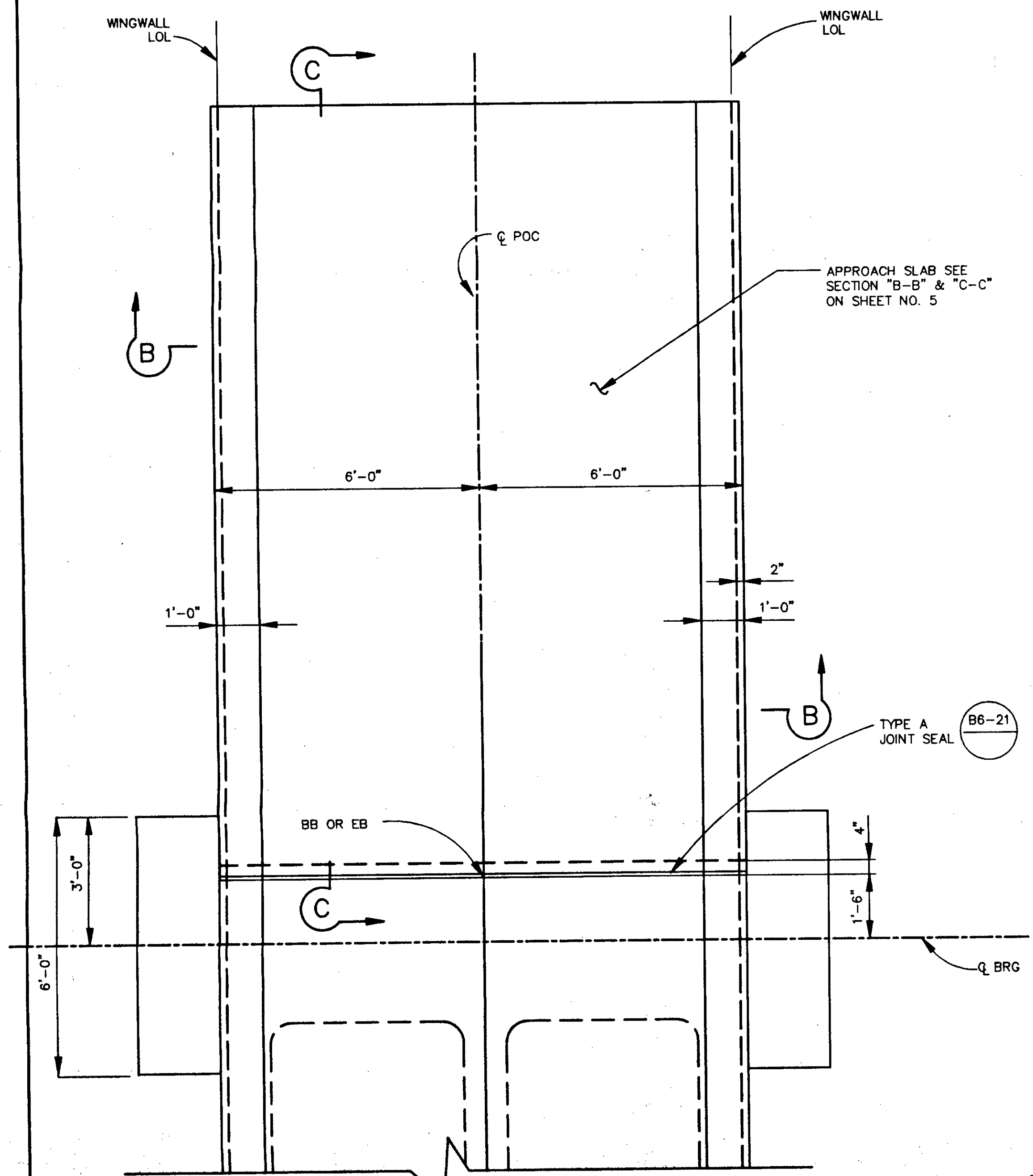
HUETT-ZOLIARS 18101 Red Hill Avenue, Tustin, CA 92780 (714) 259-7800 PREPARED UNDER THE SUPERVISION OF <i>William Earl</i> WILLIAM R. EARL			R.C.E. 12-31-88 DATE 1-28-89	DESIGNED BY WRE DRAWN BY MMF/LL CHECKED BY RJM FIELD BOOK	BR # 55C 0651 FOUNDATION PLAN AND DECK CONTOURS OSO PARKWAY PEDESTRIAN BRIDGE LAS FLORES	SHEET 3 OF 10 SHEETS JOB NO. 10-0402-01
NO.	DESCRIPTION	BY/DATE	APPROVED/DATE			

DR. 14 (16 X 232)

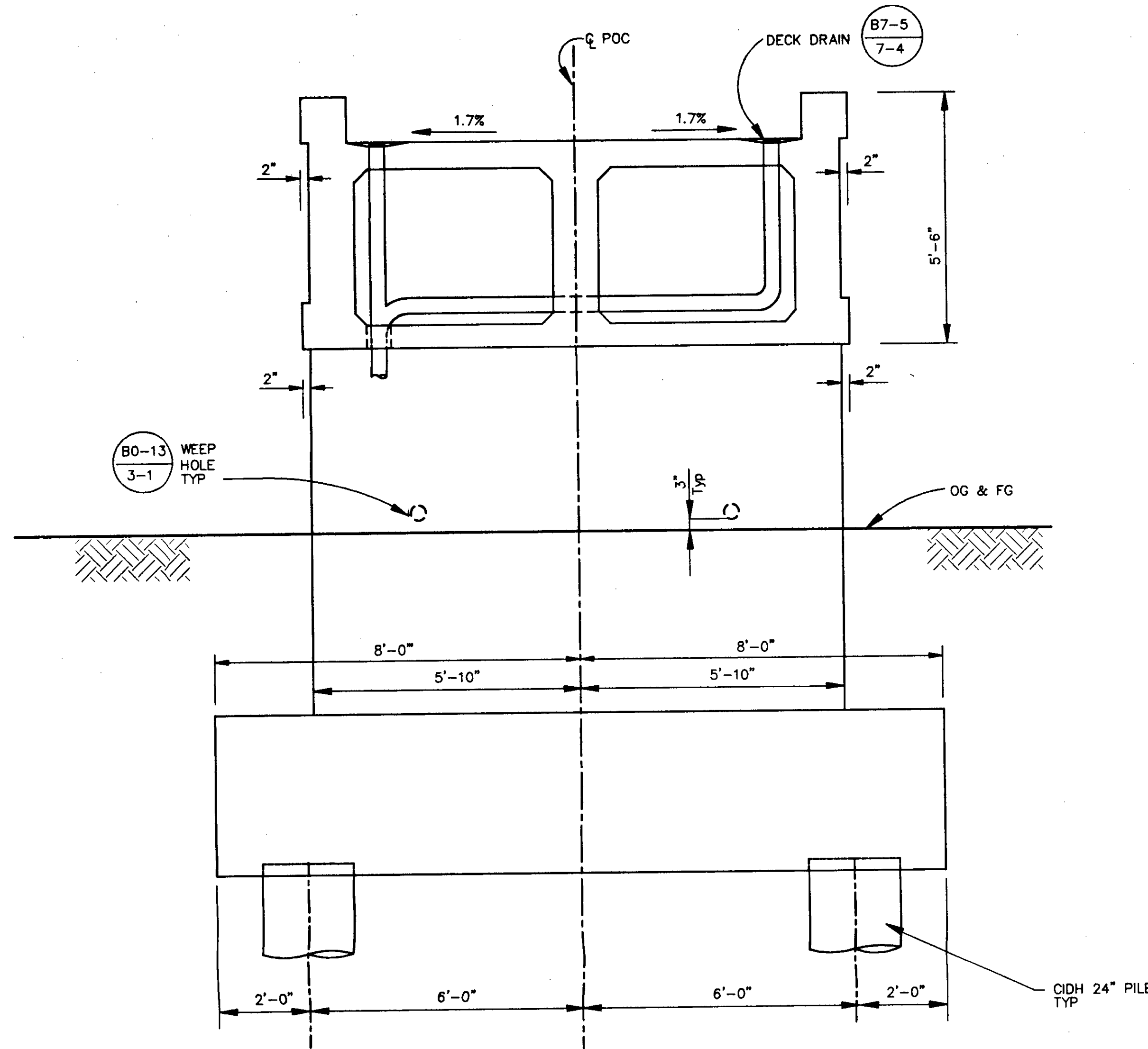
FILE: 10040201\SPR_040205105 31798



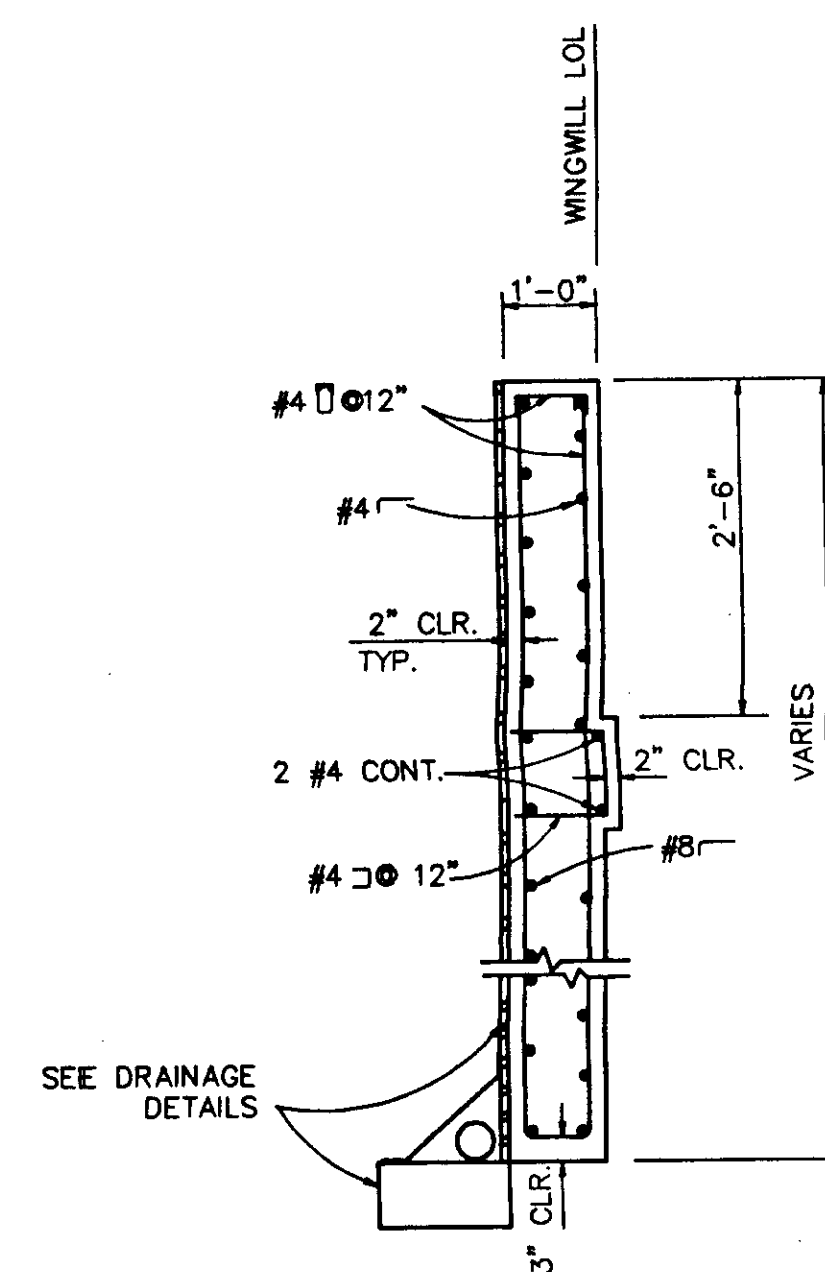
PILE CAP PLAN
SCALE 1/2" = 1'-0"



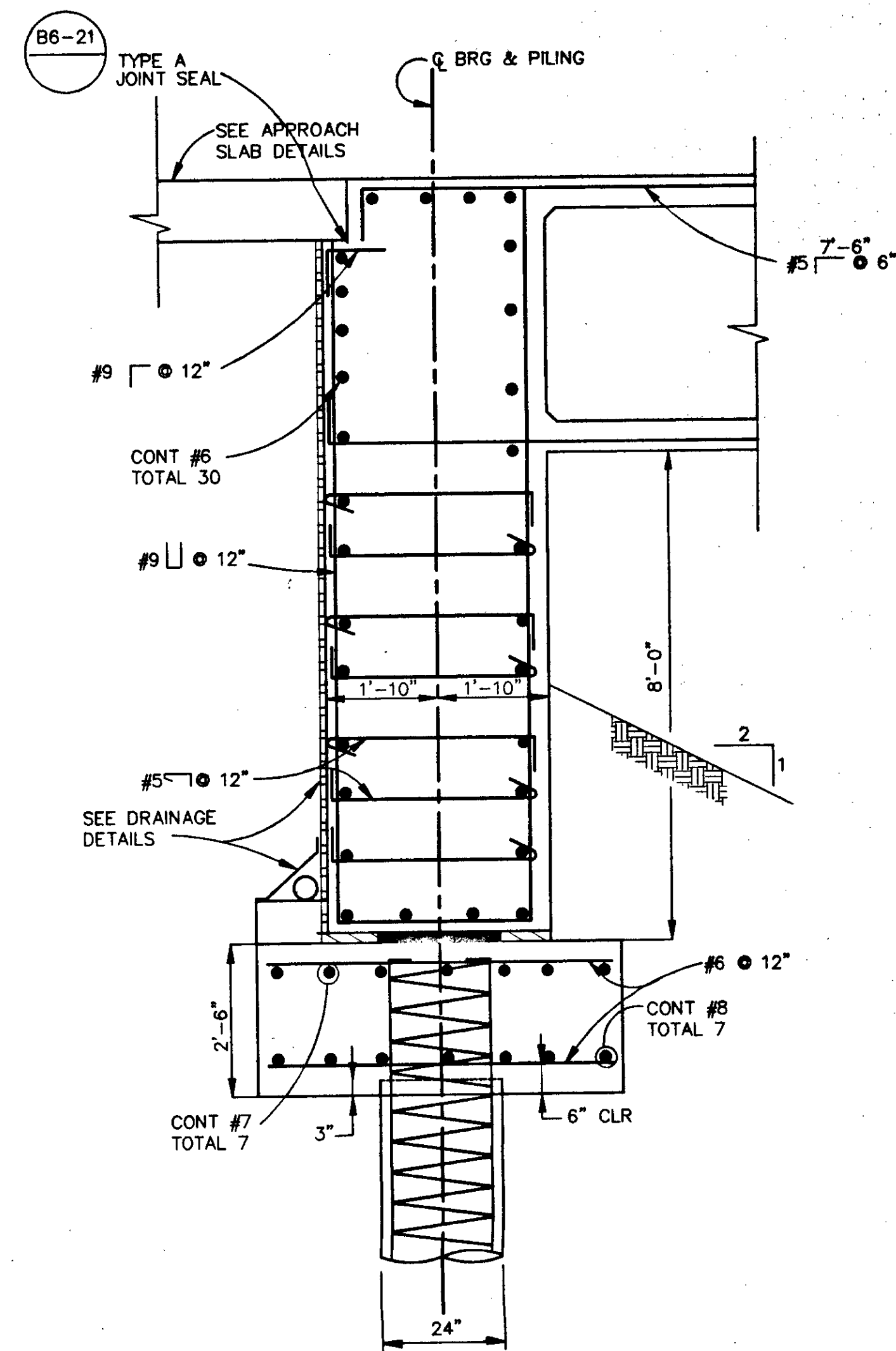
ABUTMENT PLAN
SCALE: 1/2" = 1'-0"



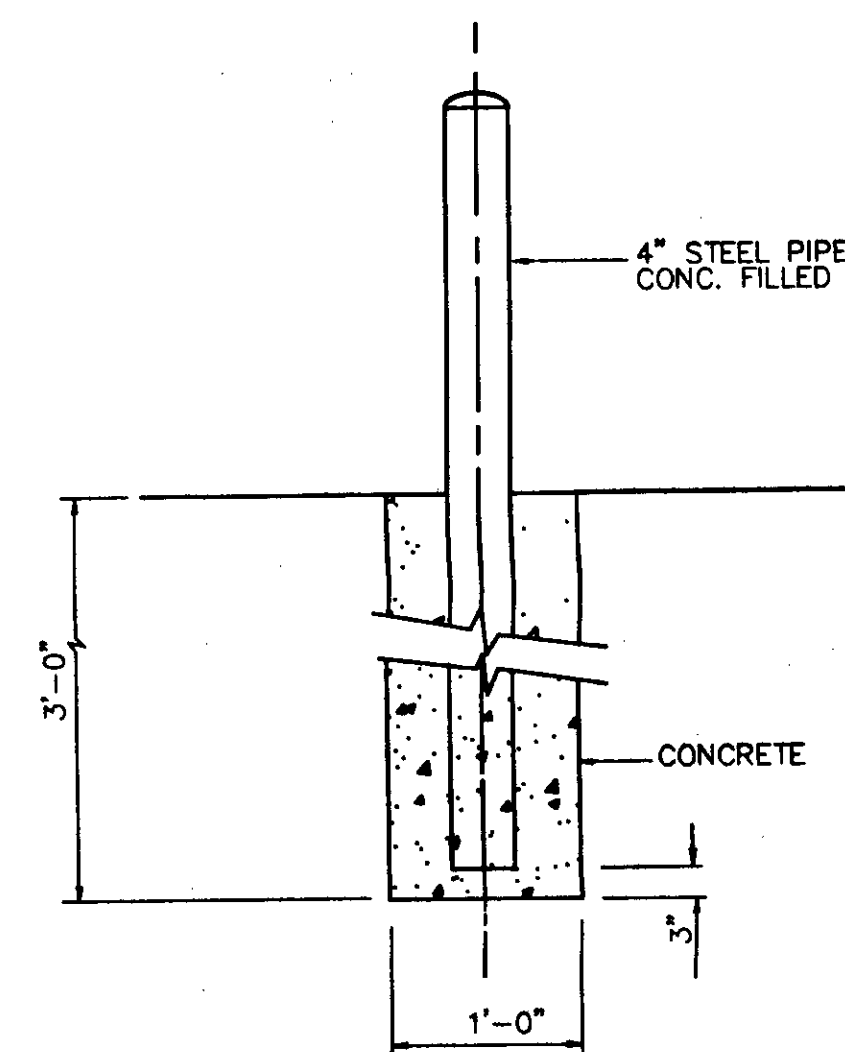
ELEVATION
SCALE 1/2" = 1'-0"



SECTION B-B
SCALE 1/2" = 1'-0"



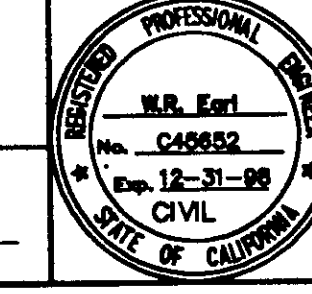
SECTION A-A
SCALE 1/2" = 1'-0"



CRASH POST DETAIL
SCALE 1" = 2'-0"

NO.	DESCRIPTION	BY/DATE	APPROVED/DATE

HUITT-ZOLLARS
Hitt-Zollars, Inc.
1901 Red Hill Avenue, Tustin, CA 92780 (714) 259-7800
PREPARED UNDER THE SUPERVISION OF
William R. Earl
WILLIAM R. EARL
CIVIL
C40802 12-31-88 1-28-88

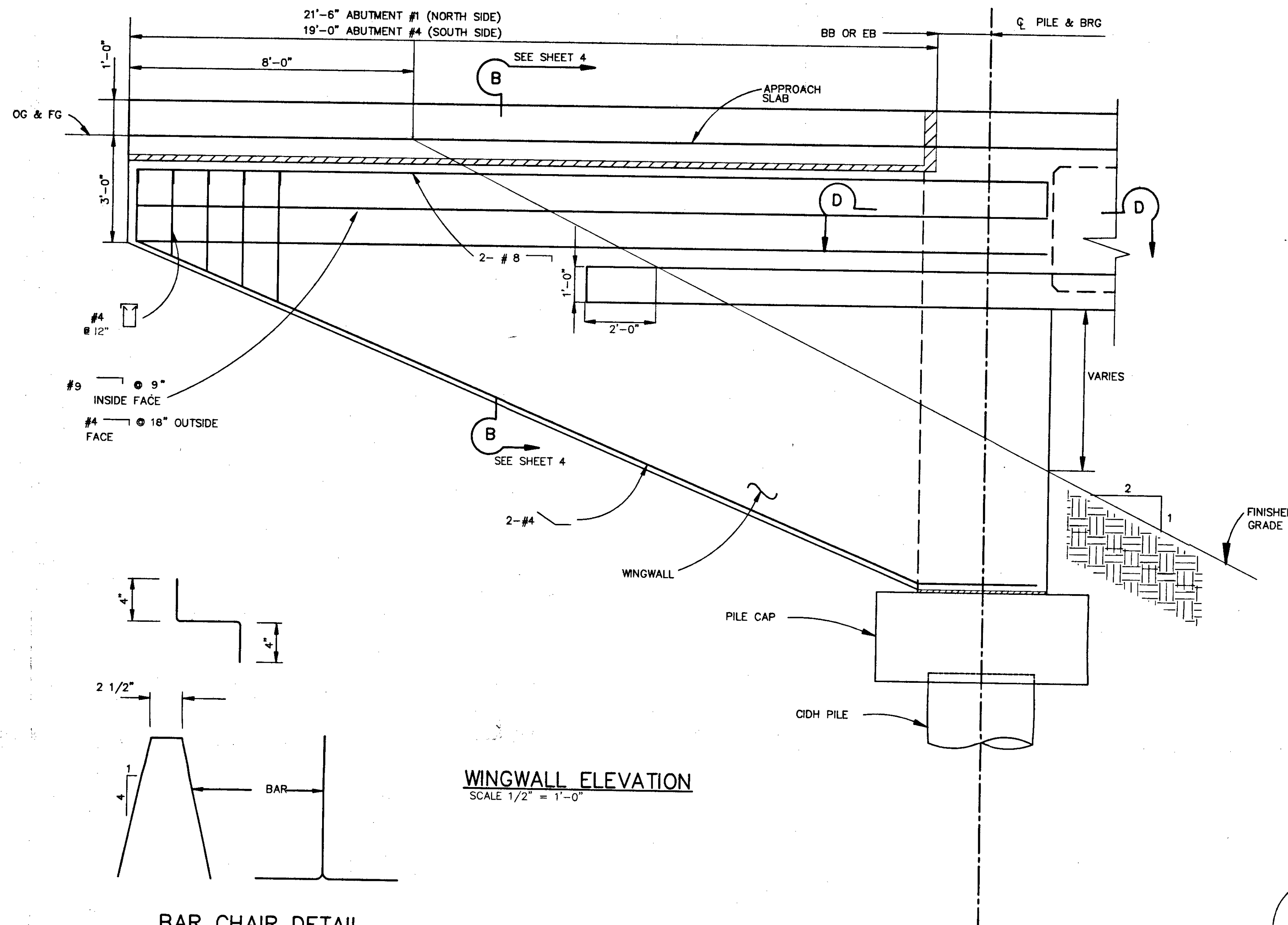


DESIGNED BY
WRE
DRAWN BY
MMF/LL
CHECKED BY
RJM
FIELD BOOK

BR #55C 0651
ABUTMENT DETAILS NO. 1
**OSO PARKWAY
PEDESTRIAN BRIDGE**
LAS FLORES

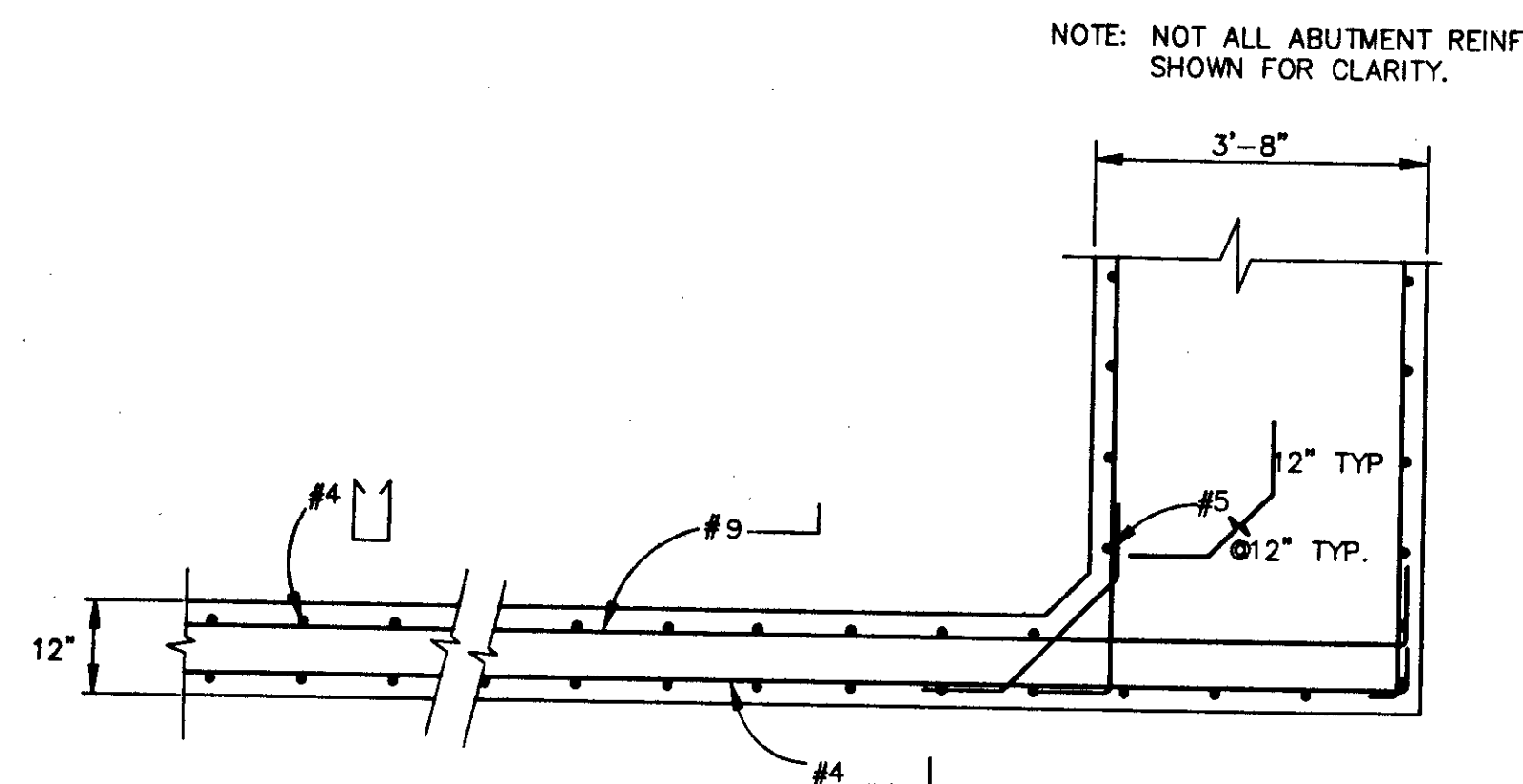
SHEET
4
OF
10
SHEETS
JOB NO.
10-0402-01

DR. 14 C/64232

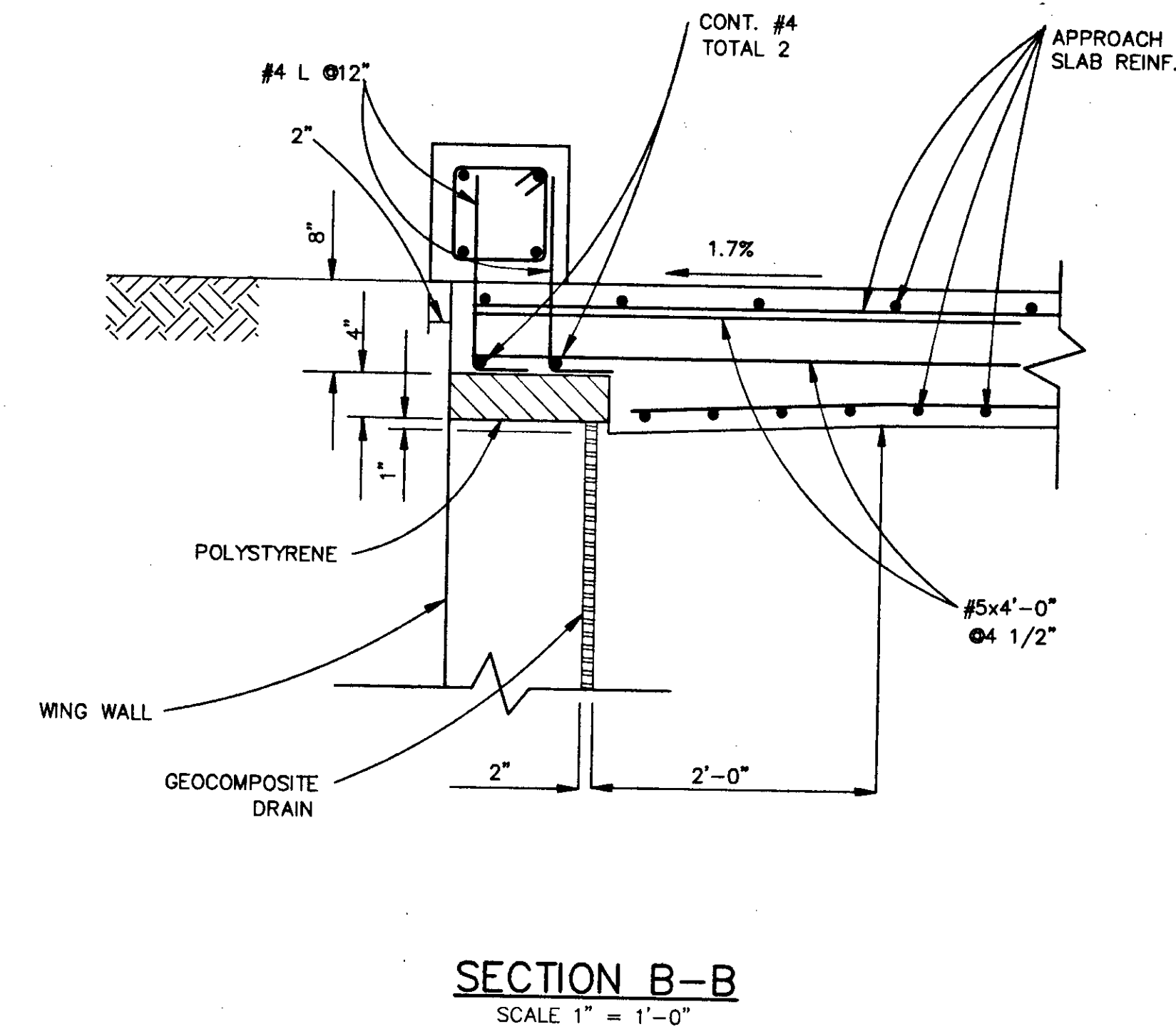


WINGWALL ELEVATION
SCALE 1/2" = 1'-0"

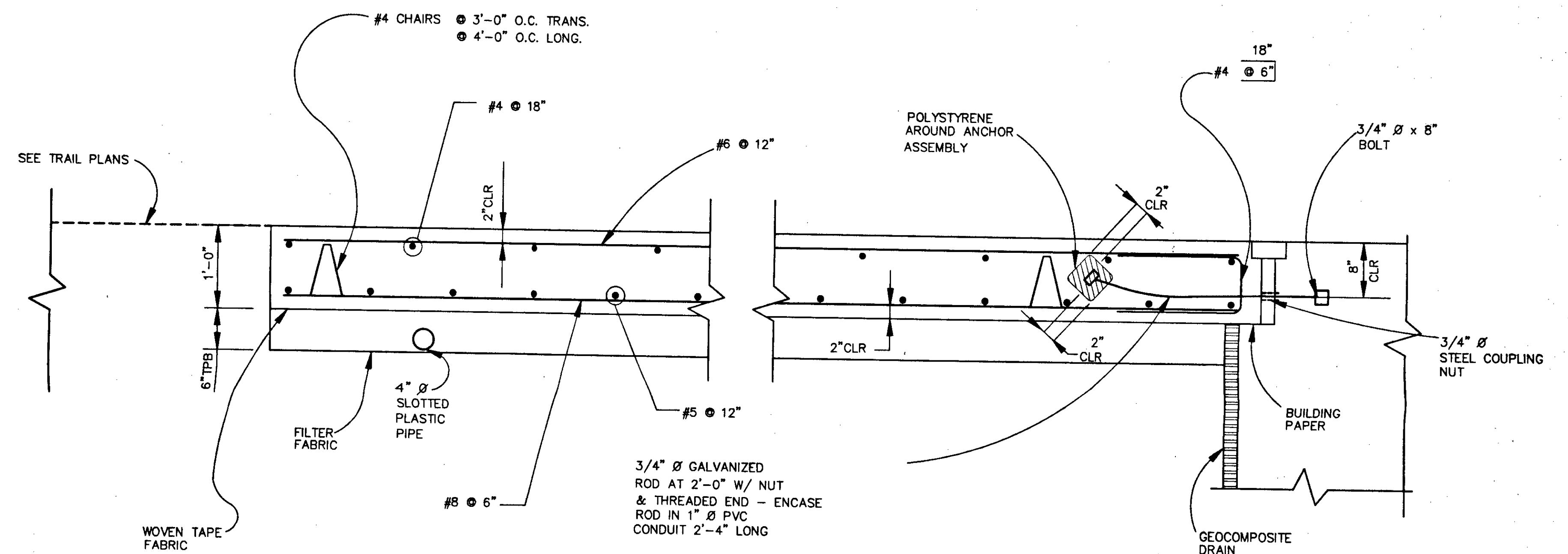
BAR CHAIR DETAIL
NTS



SECTION D-D
SCALE 1/2" = 1'-0"



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

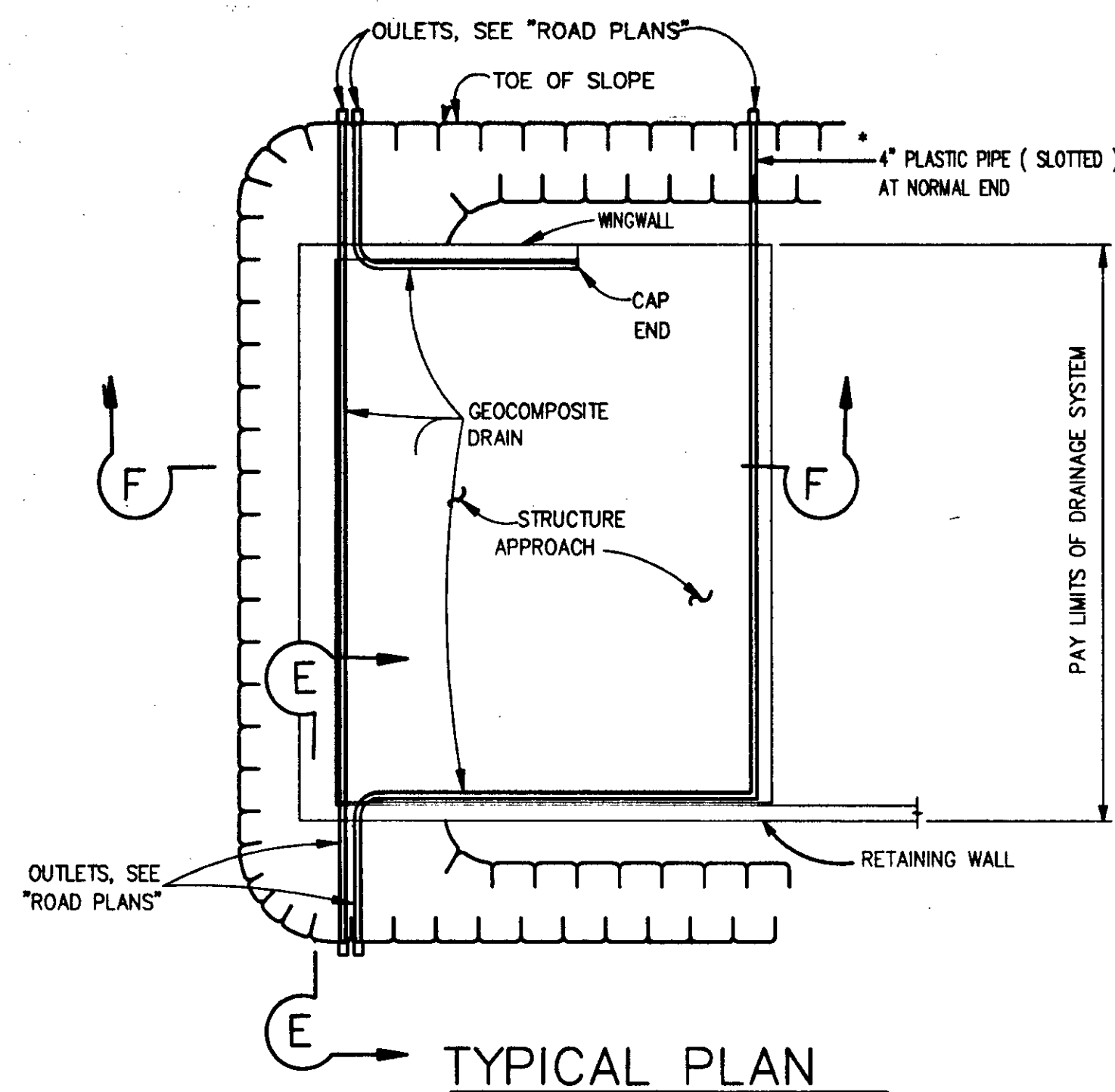


SECTION C-C
SCALE 1" = 1'-0"

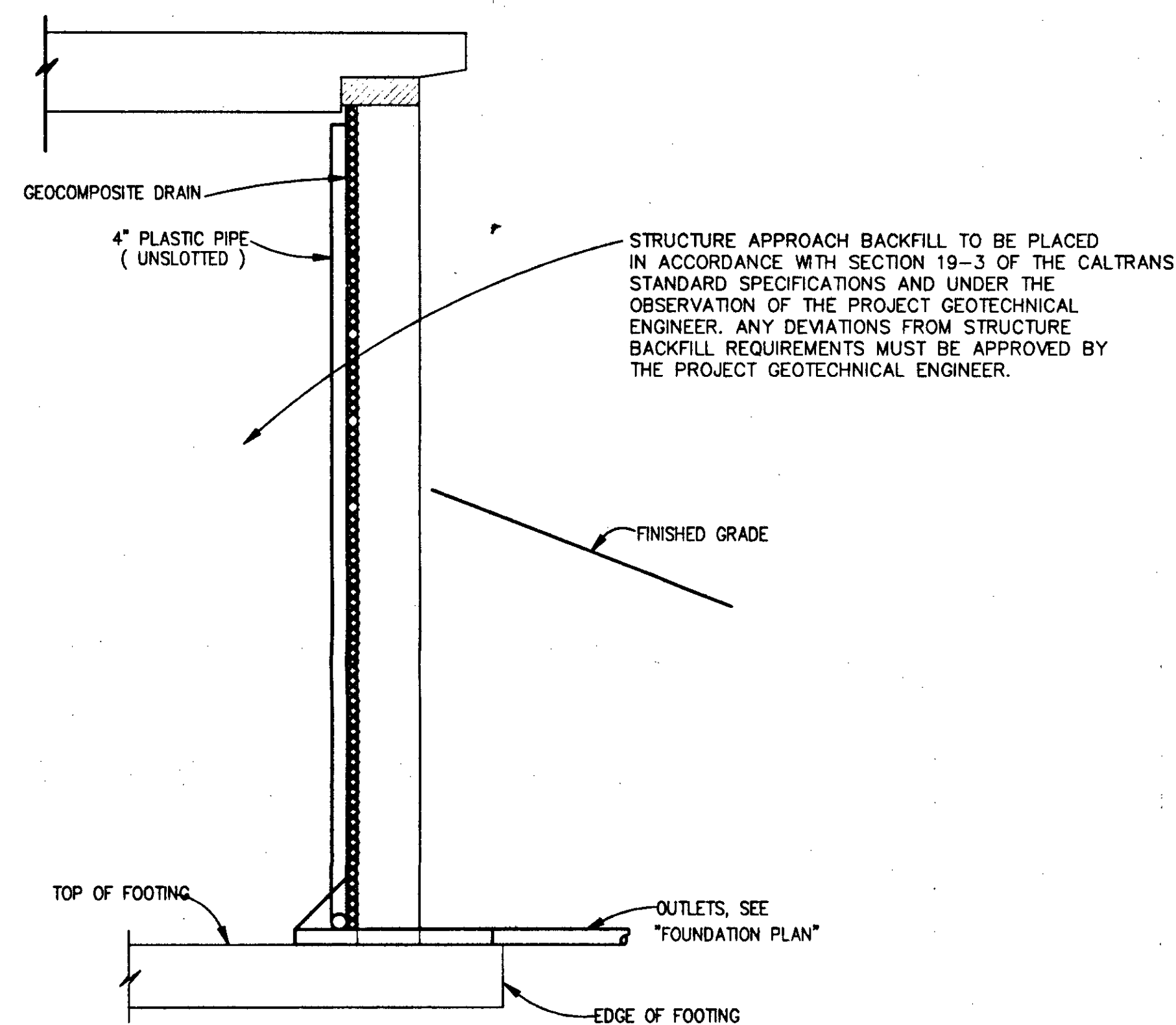
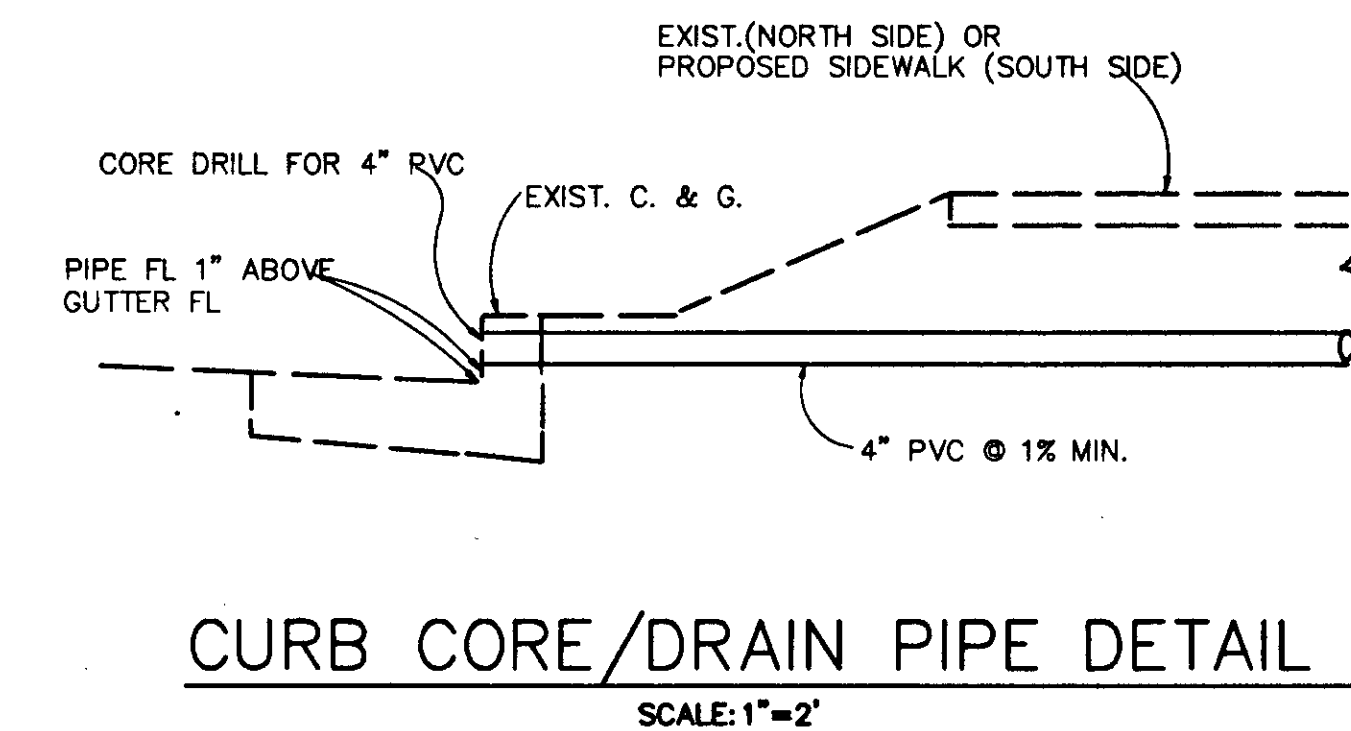
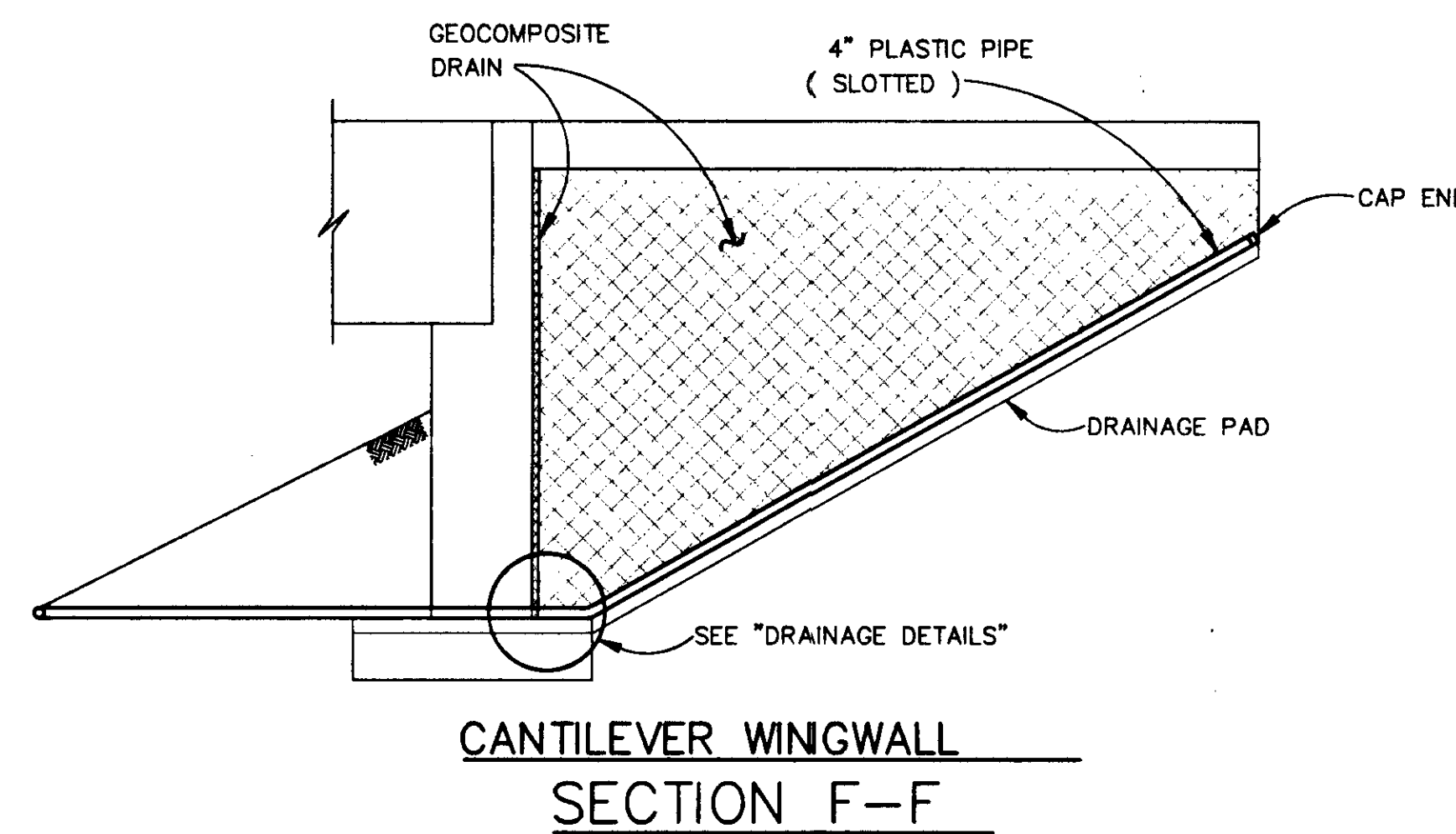
				HUITT-ZOLIARS				BR # 55C 0651			
				Huitt-Zoliars, Inc. 39101 Pied Hill Avenue, Tustin, CA 92780 (714) 259-7900				ABUTMENT DETAILS NO.2			
				PREPARED UNDER THE SUPERVISION OF WILLIAM R. EARL				OSO PARKWAY PEDESTRIAN BRIDGE			
				DATE OF CALIFORNIA				LAS FLORES			
				NO. DESCRIPTION BY/DATE APPROVED/DATE				SHEET 5 OF 10 SHEETS			

DR. 14 U6232)

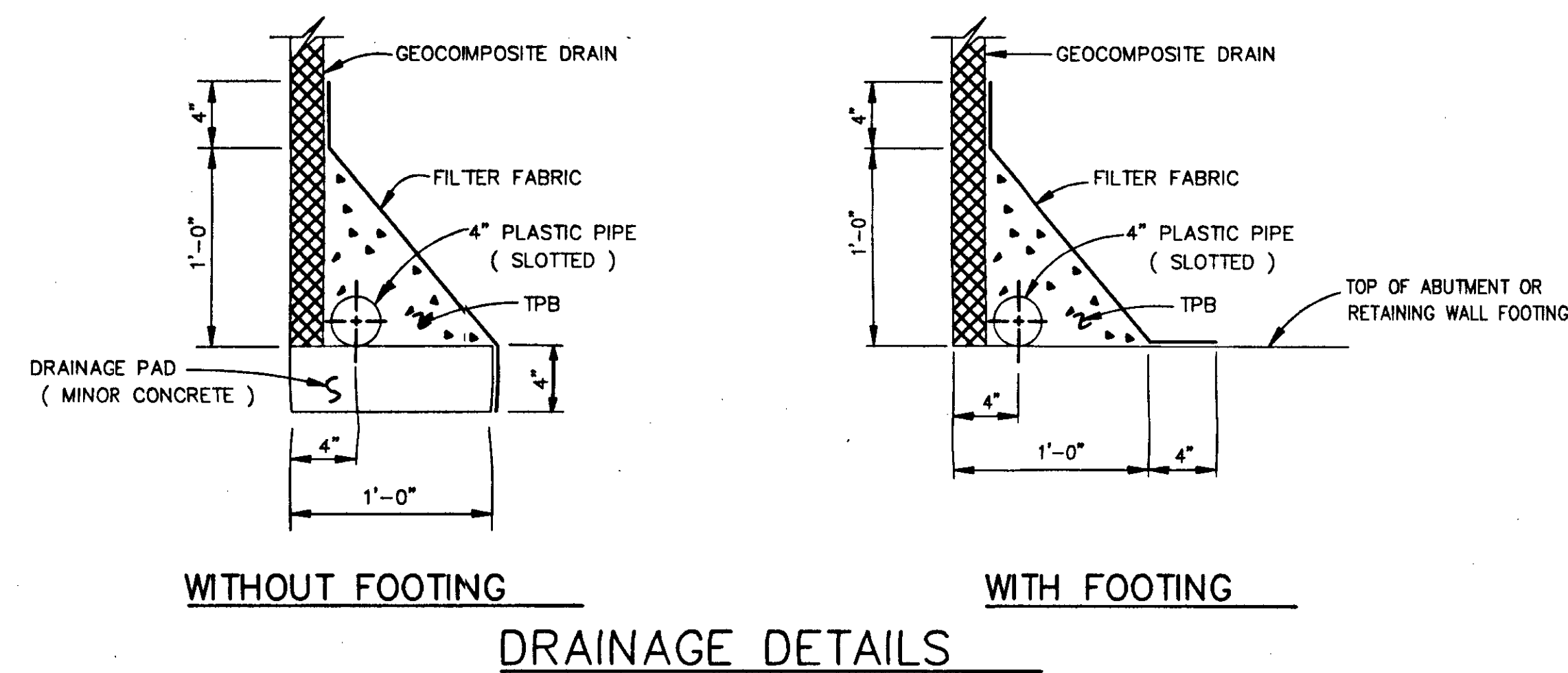
F:\10040201\BR\04020105 4-9-98 8:58:54 am EST



* FOR PIPE LAYOUT AT STAGGERED END, SEE "DETAIL B."

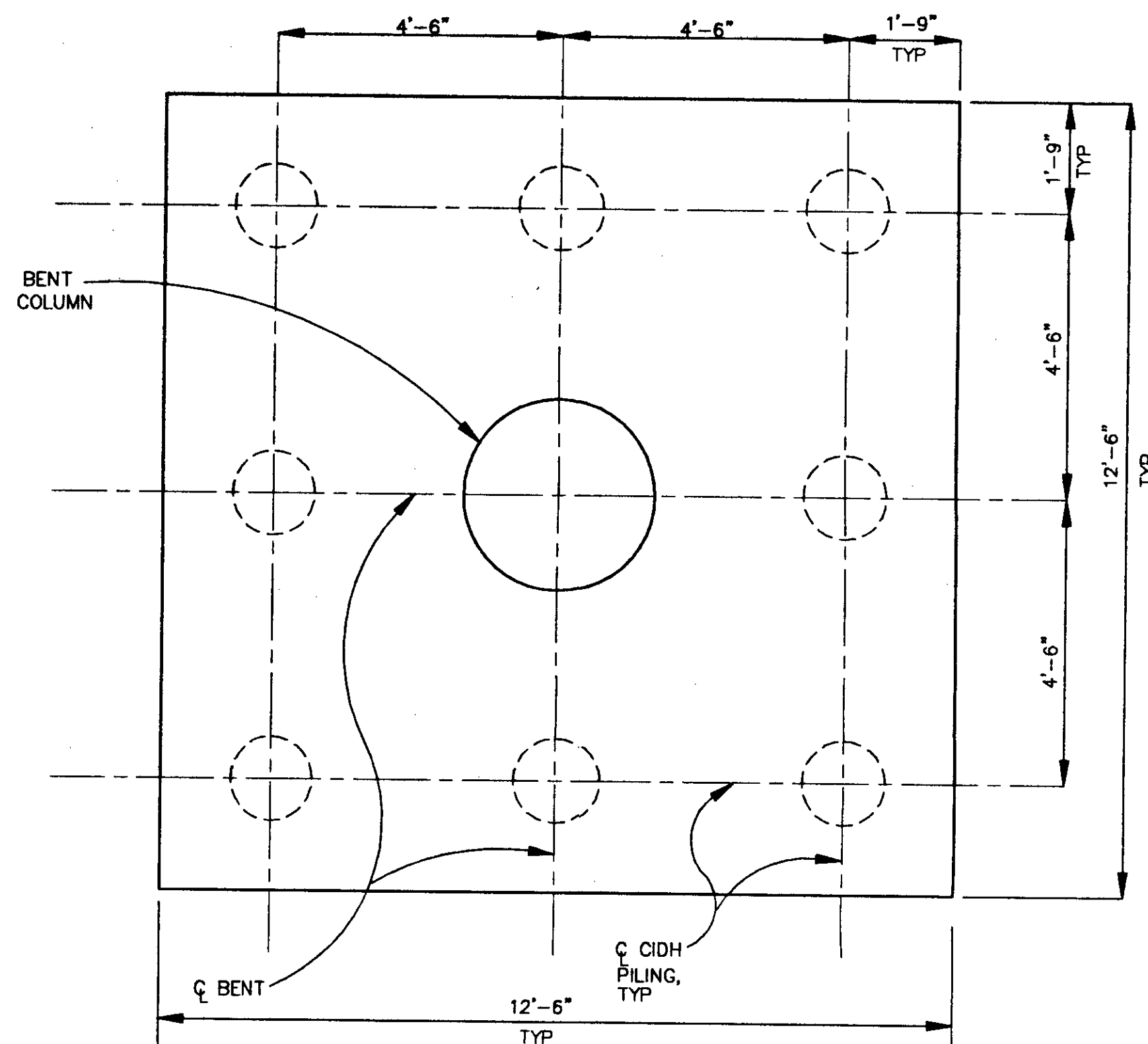
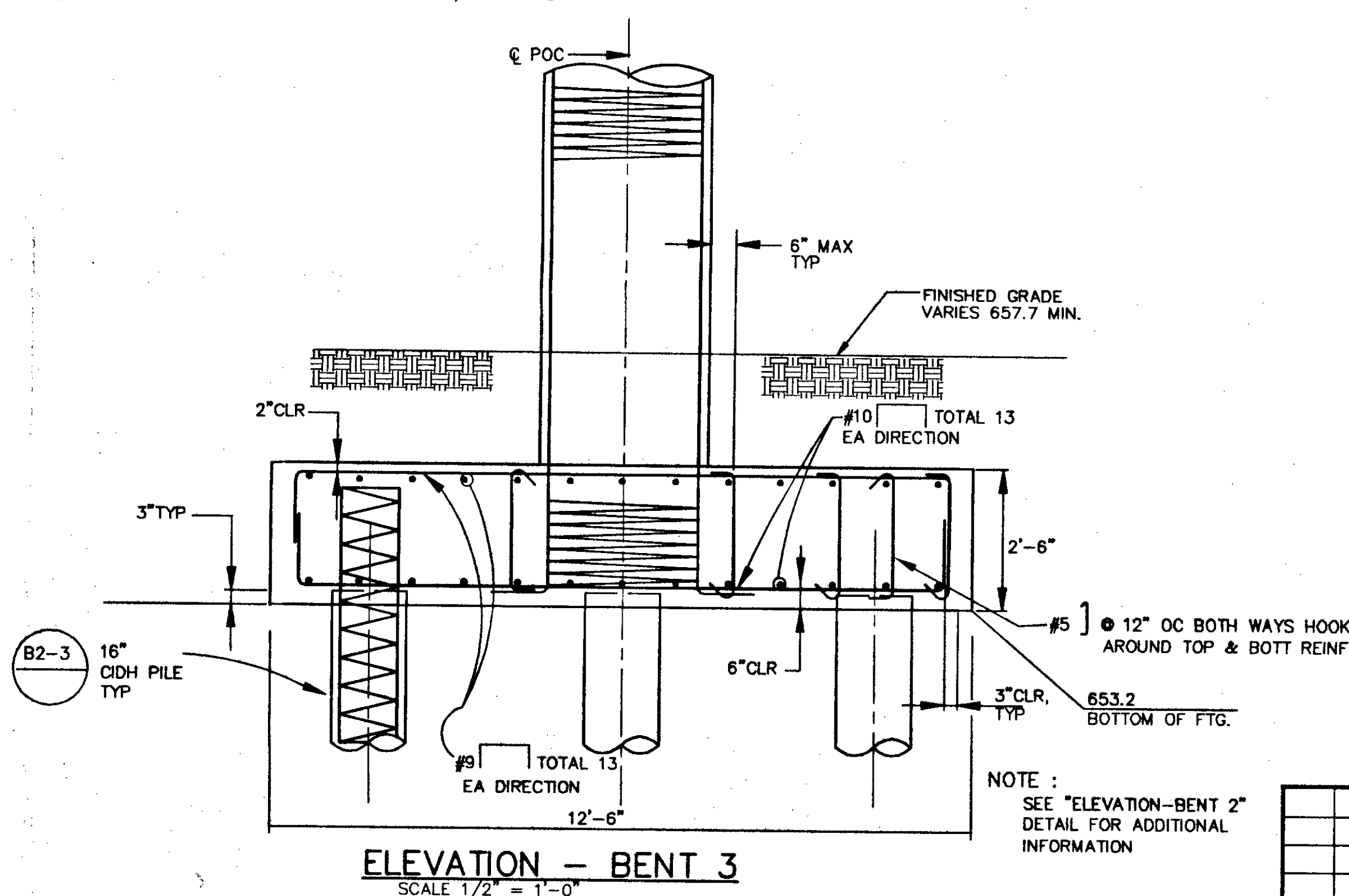
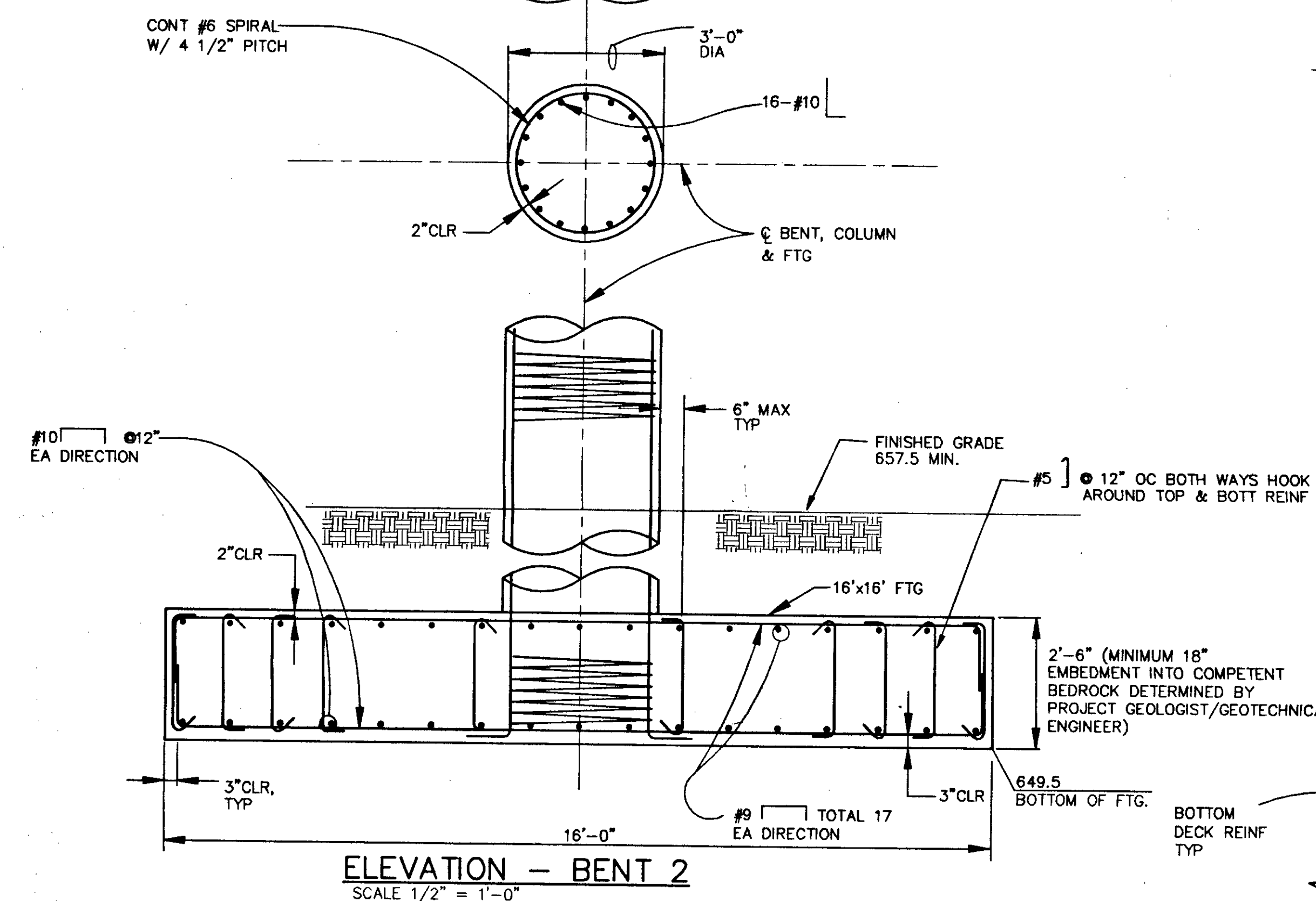
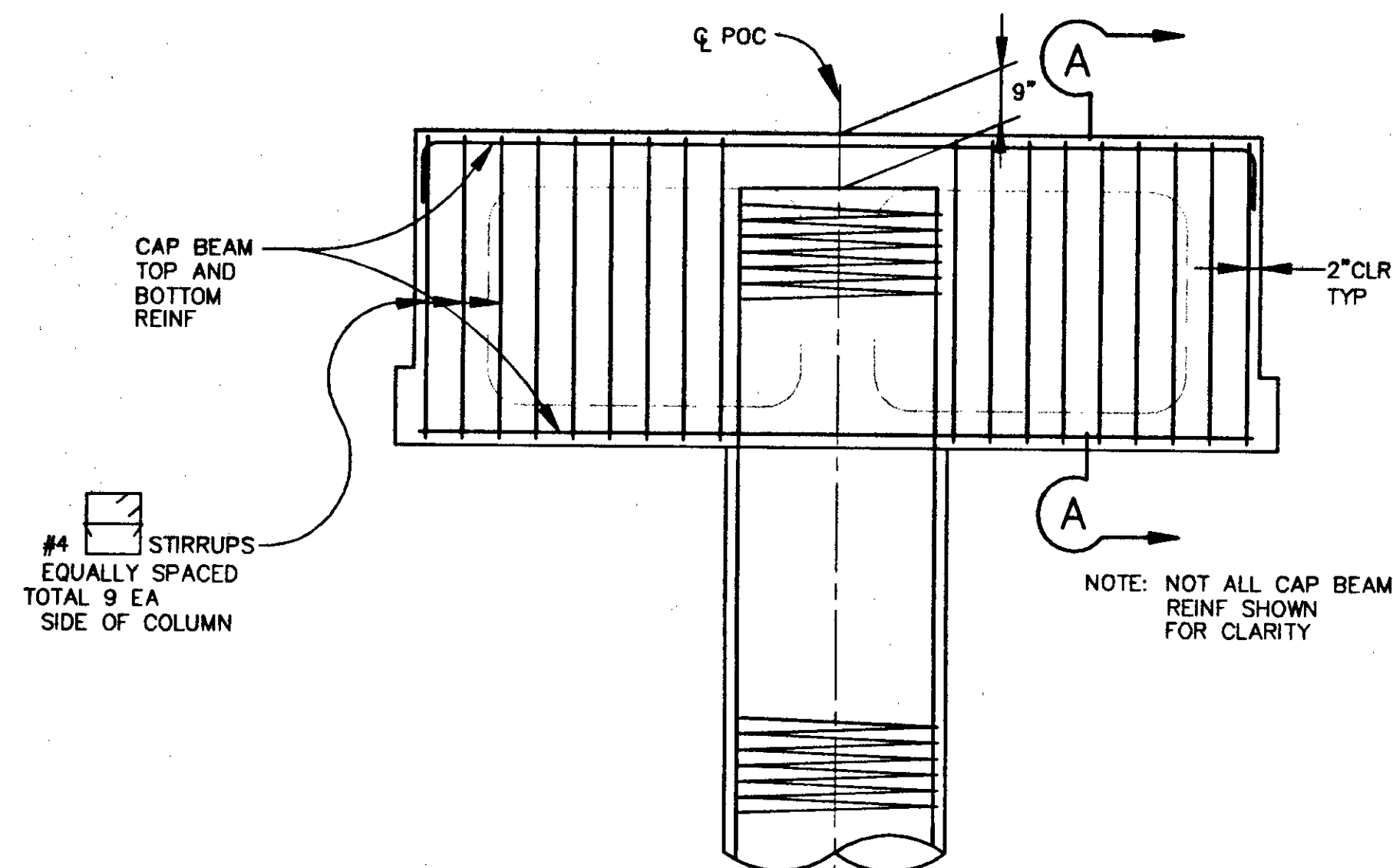


NOTE: BENDS AND JUNCTIONS IN 4" PLASTIC PIPE ARE 30" RADIUS MIN.

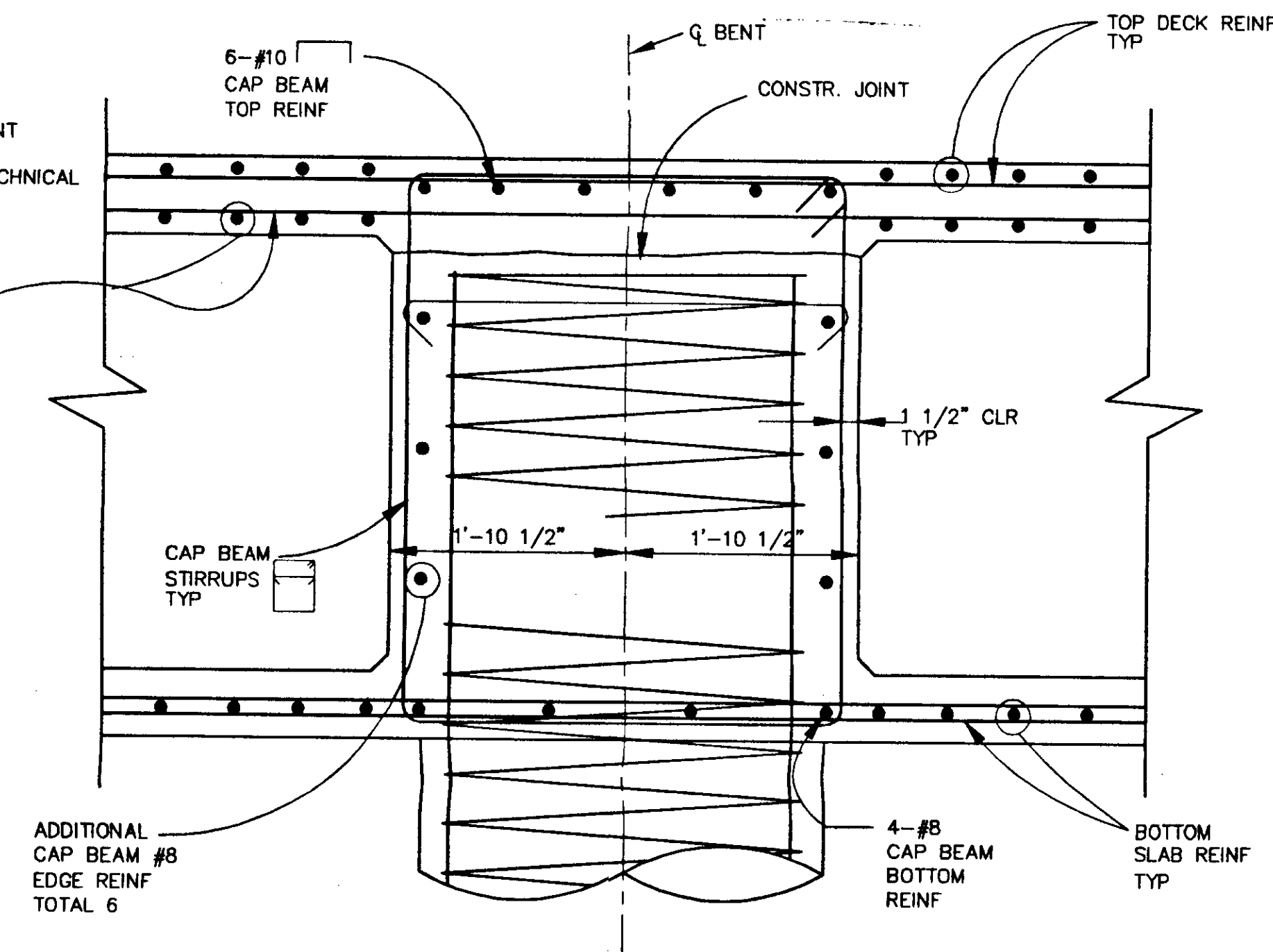


				HUIT-ZOLLARS Huit-Zollars, Inc. 15101 Red Hill Avenue, Tustin, CA 92780 (714) 258-7900 PREPARED UNDER THE SUPERVISION OF <i>William R. Earl</i> WILLIAM R. EARL					DESIGNED BY WRE DRAWN BY MMF CHECKED BY RJM FIELD BOOK	BR # 55C 0651 ABUTMENT DRAINAGE DETAILS OSO PARKWAY PEDESTRIAN BRIDGE LAS FLORES	SHEET 6 OF 10 SHEETS JOB NO. 10-0402-01
NO.	DESCRIPTION	BY/DATE	APPROVED/DATE	R.G.E.	EXPIRES	DATE					

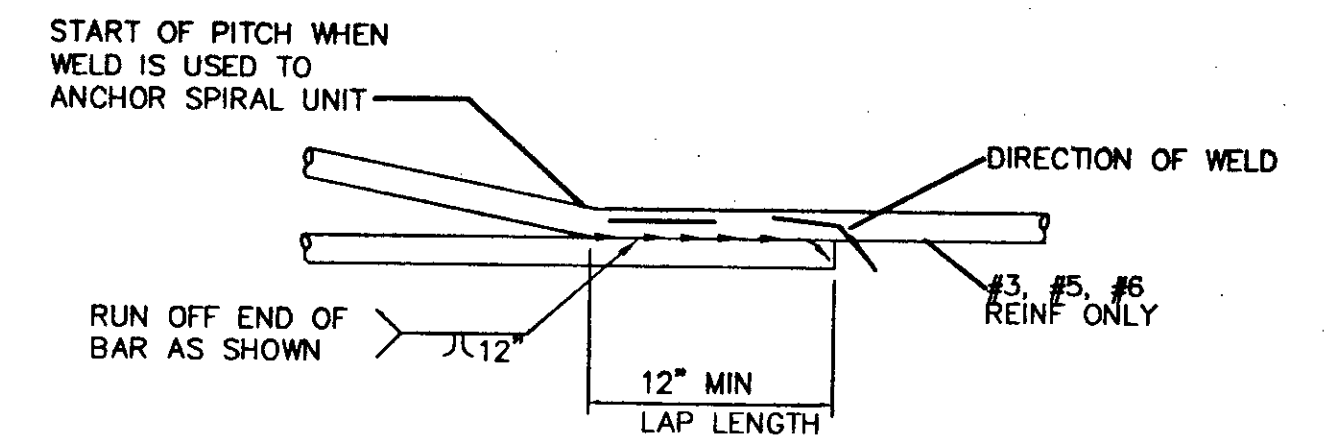
DR. 14 (16 X 232)



PLAN - BENT 3 PILE CAP
SCALE 1/2" = 1'-0"

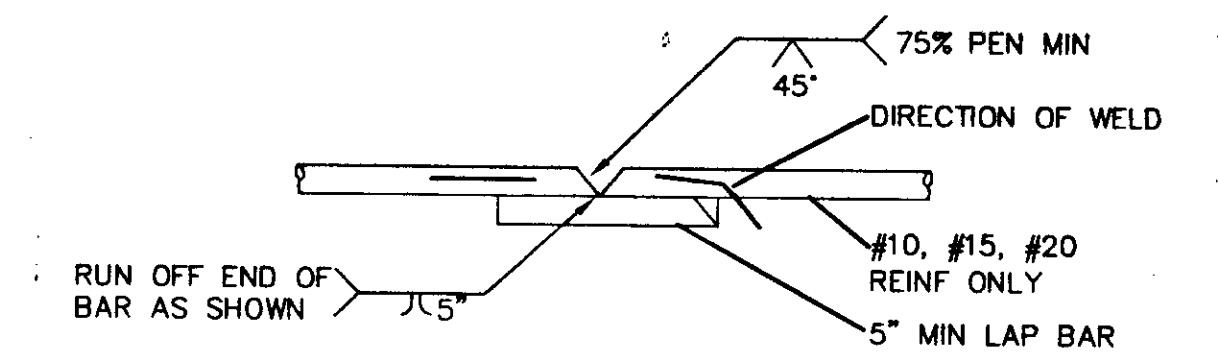


SECTION - A-A
SCALE 1" = 1'-0"



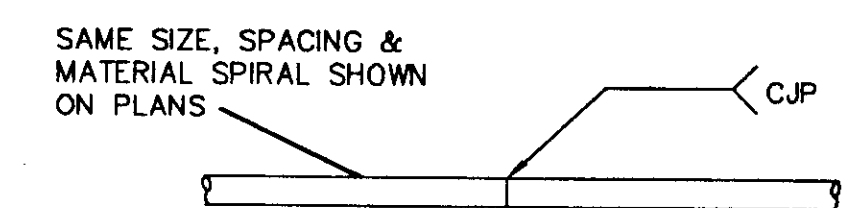
NOTE: FLARE WELD TO BE MADE IN DIRECTION SHOWN

VEE GROOVE WELDED SPLICE



1. BUTT WELD TO BE MADE FIRST
2. BUTT WELD TO BE MADE IN FLAT OR HORIZONTAL POSITION
3. LAP BAR TO BE CENTERED IN SPLICE
4. FLARE WELD TO BE MADE IN DIRECTION SHOWN
5. LAP BAR EQUAL SIZE TO SPIRAL BAR

VEE GROOVE WELDED SPLICE

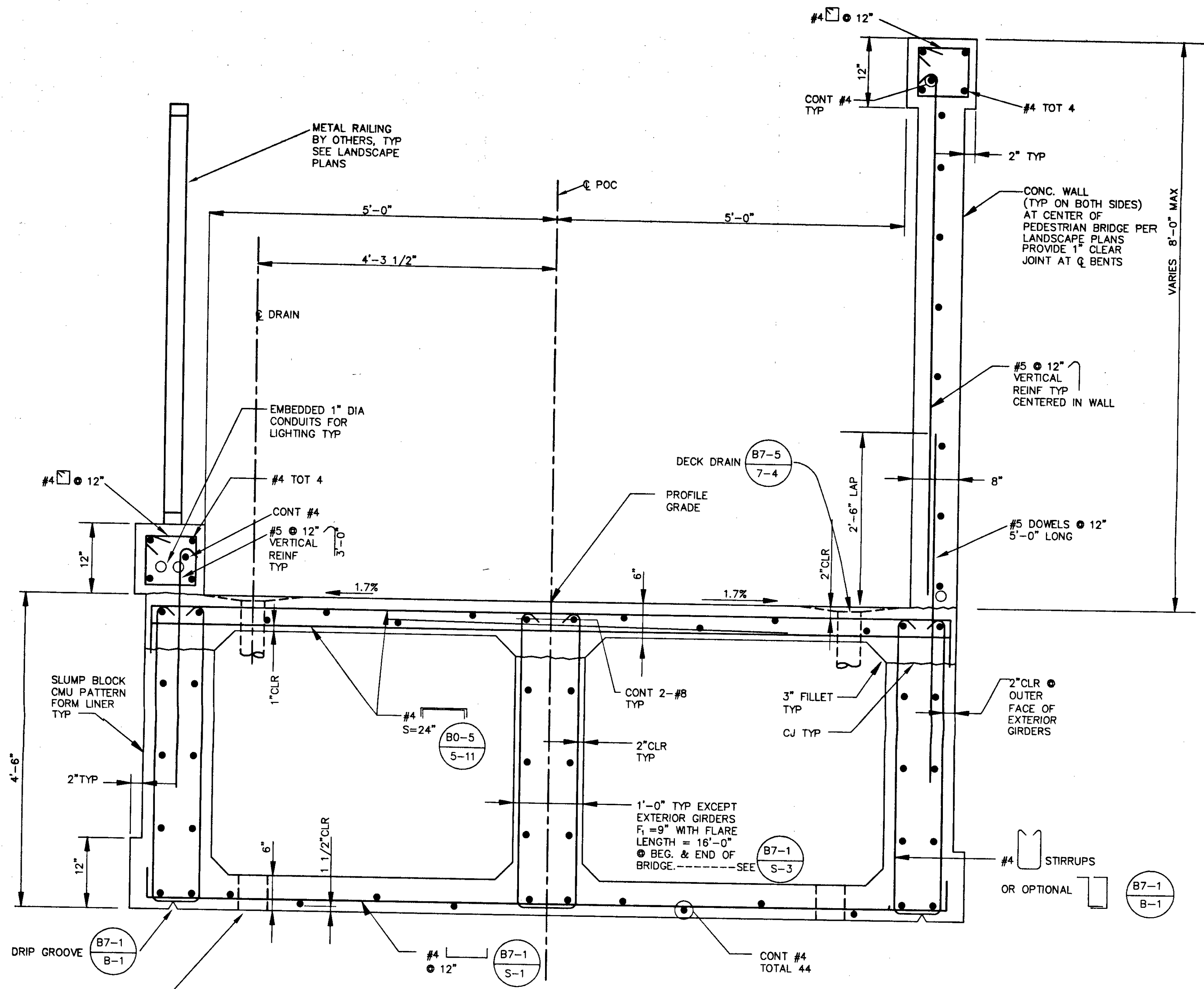


INDIVIDUAL HOOPS, MADE CONTINUOUS WITH 100% PENETRATION WELDS, MAY BE SUBSTITUTED FOR SPIRALS

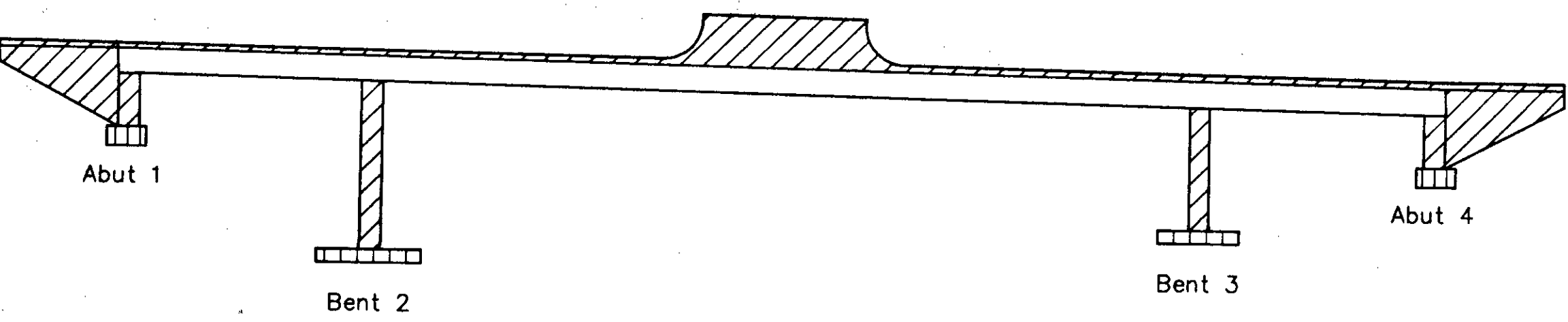
BUTT WELDED CONTINUOUS HOOP

BAR SPIRAL SPLICE & SPIRAL ANCHOR AND HOOP DETAILS
NO SCALE

HUITT-ZOLIARS 1501 Red Hill Avenue, Turin, CA 92780 (714) 258-7800 PREPARED UNDER THE SUPERVISION OF William R. Earl WILLIAM R. EARL				DESIGNED BY WRE DRAWN BY MMF/LL CHECKED BY RJM FIELD BOOK	BR #55C 0651 BENT DETAILS OSO PARKWAY PEDESTRIAN BRIDGE LAS FLORES	SHEET 7 of 10 SHEETS JOB NO. 10-0402-01
NO.	DESCRIPTION	BY/DATE	APPROVED/DATE			



BRIDGE SECTION
SCALE 1" = 1'-0"

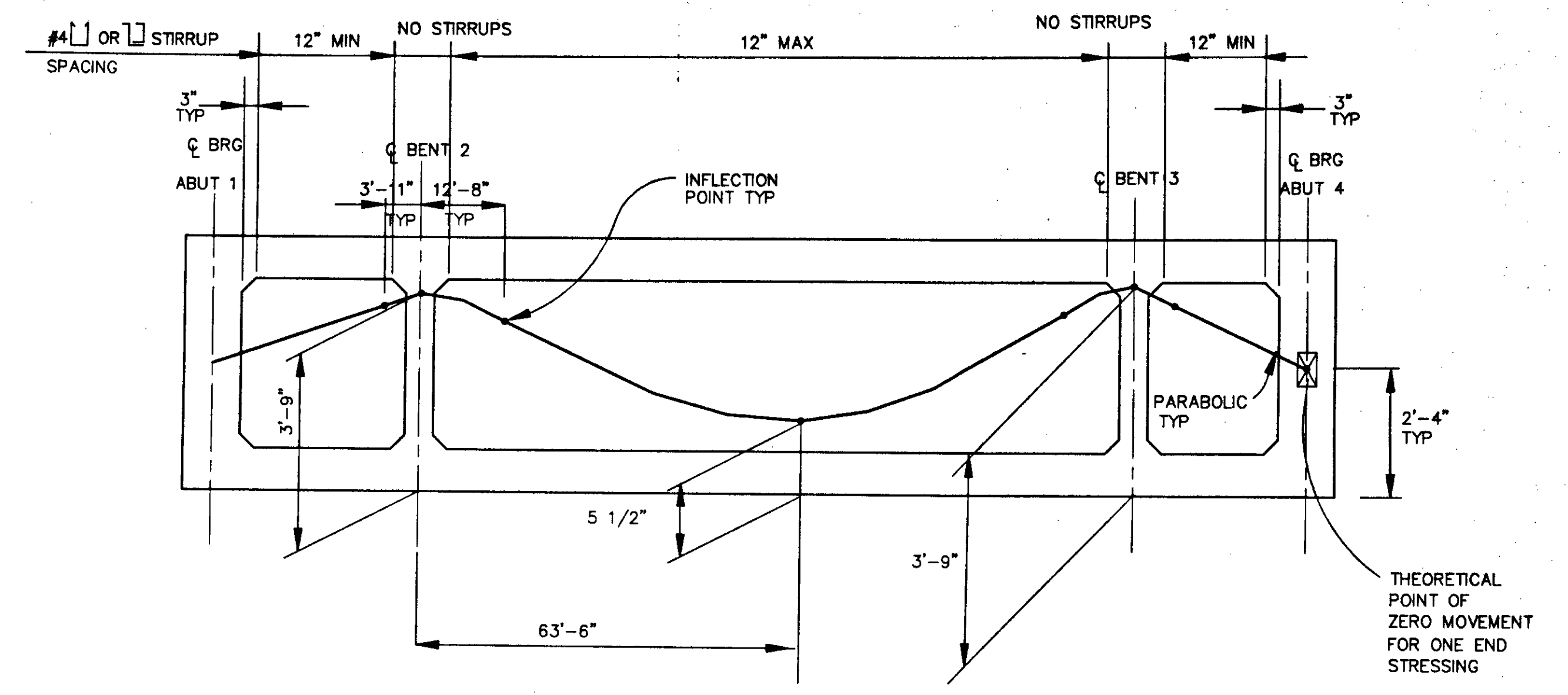


- STRUCTURAL CONCRETE BRIDGE ($f_c = 4500$ psi • 28 DAYS)
- STRUCTURAL CONCRETE BRIDGE FOOTING ($f_c = 3600$ psi • 28 DAYS)
- STRUCTURAL CONCRETE BRIDGE ($f_c = 3600$ psi • 28 DAYS)

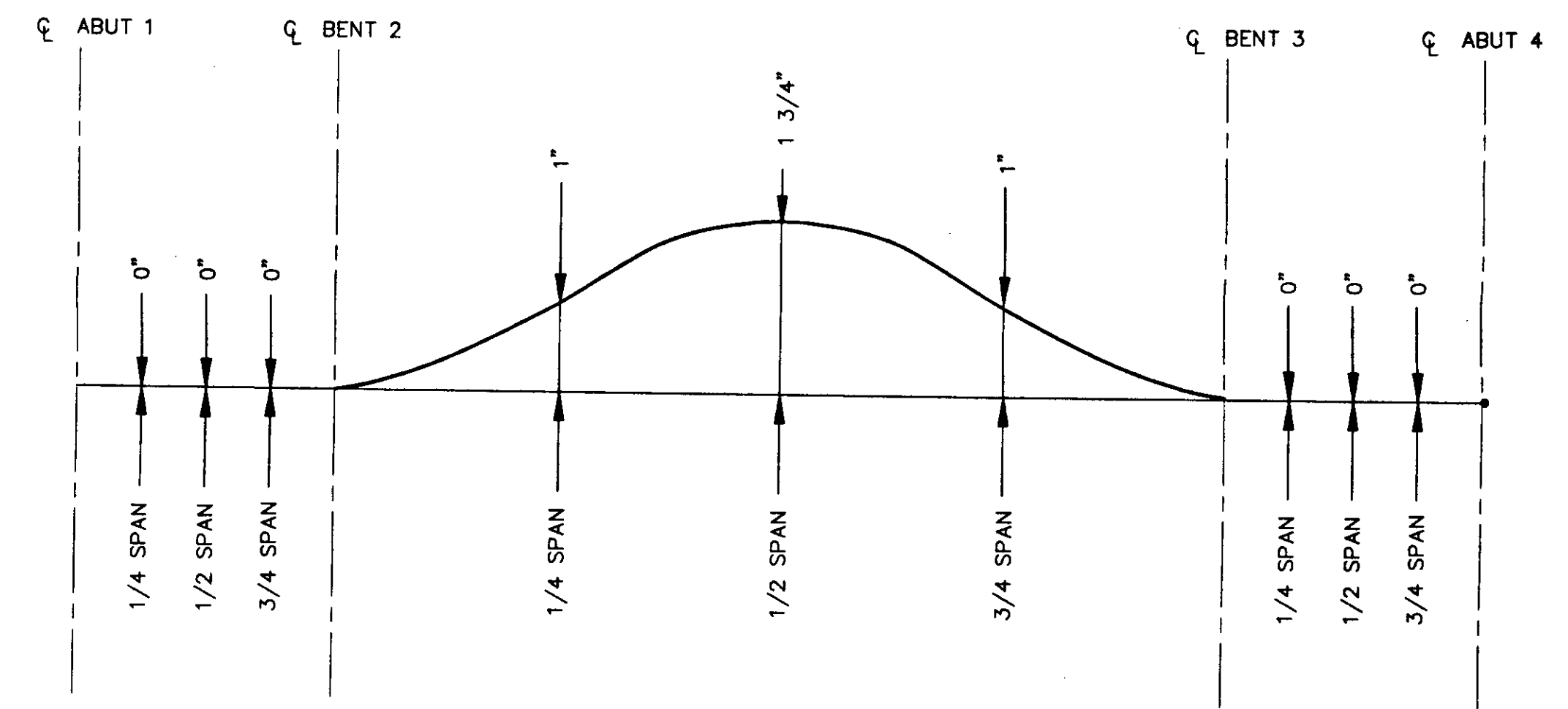
CONCRETE STRENGTH AND TYPE LIMITS
NO SCALE

PRESTRESSING NOTES

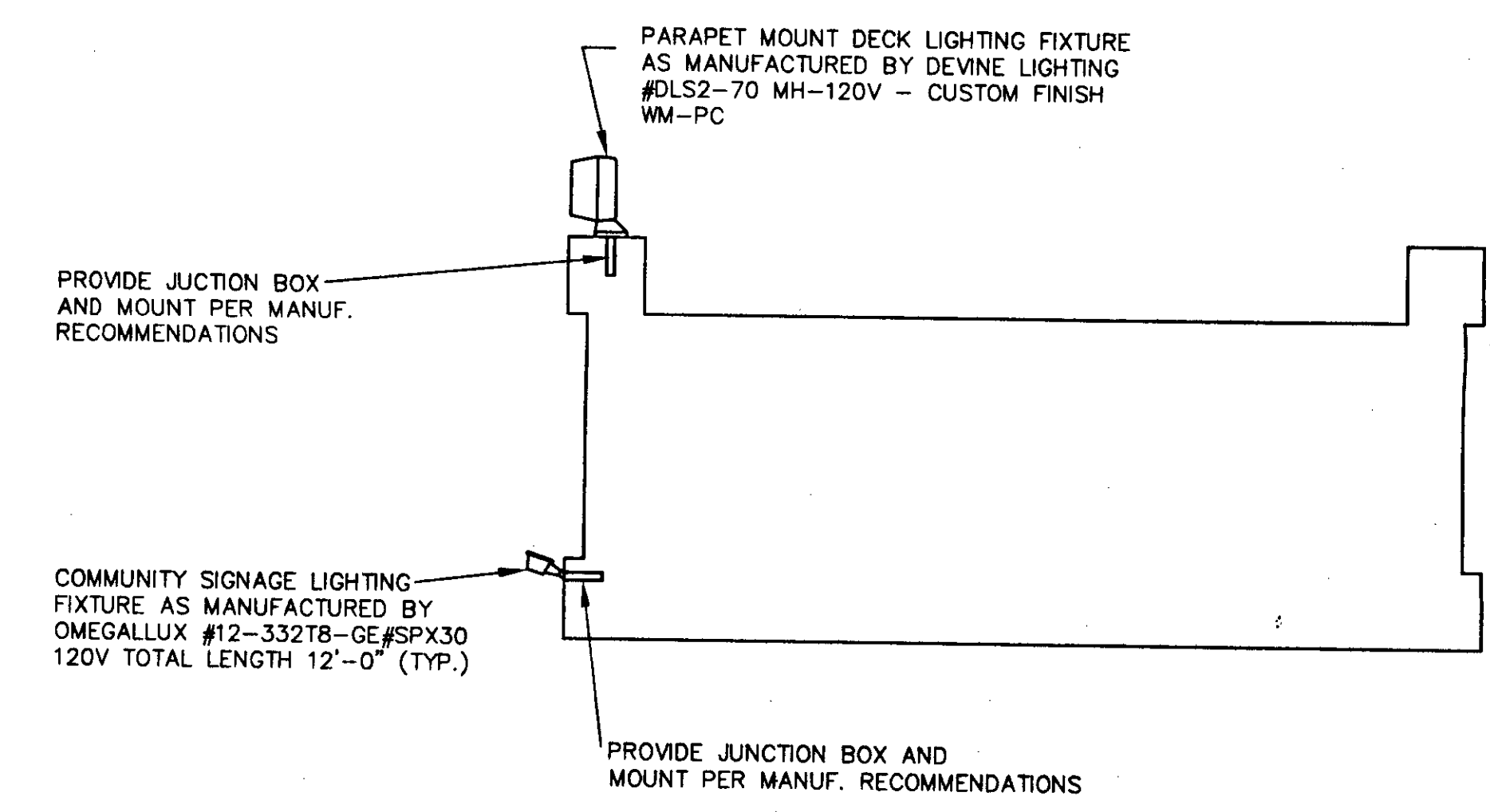
270 ksi LOW RELAXATION STRAND:
 P Jack = 212/0 kips
 ANCHOR SET = 3/8 INCH
 TOTAL NUMBER OF GIRDERS = 3
 DISTRIBUTION OF PRESTRESS FORCE: (P Jack) BETWEEN GIRDERS SHALL NOT EXCEED THE RATIO OF 3:2.
 MAXIMUM FINAL FORCE VARIATION BETWEEN GIRDERS SHALL NOT EXCEED 325 kips
 CONCRETE:
 $f_c = 4.5$ ksi • 28 DAYS
 $f_c = 3.5$ ksi • TIME OF STRESSING
 CONTRACTOR SHALL SUBMIT ELONGATION CALCULATIONS BASED ON INITIAL STRESS AT
 ☒ = 0.856 TIMES JACKING STRESS
 ONE END STRESSING SHALL BE PERFORMED AT ABUTMENT 1 ONLY.



LONGITUDINAL SECTION
SCALE: HORIZONTAL 1" = 20'
VERTICAL 1" = 1'



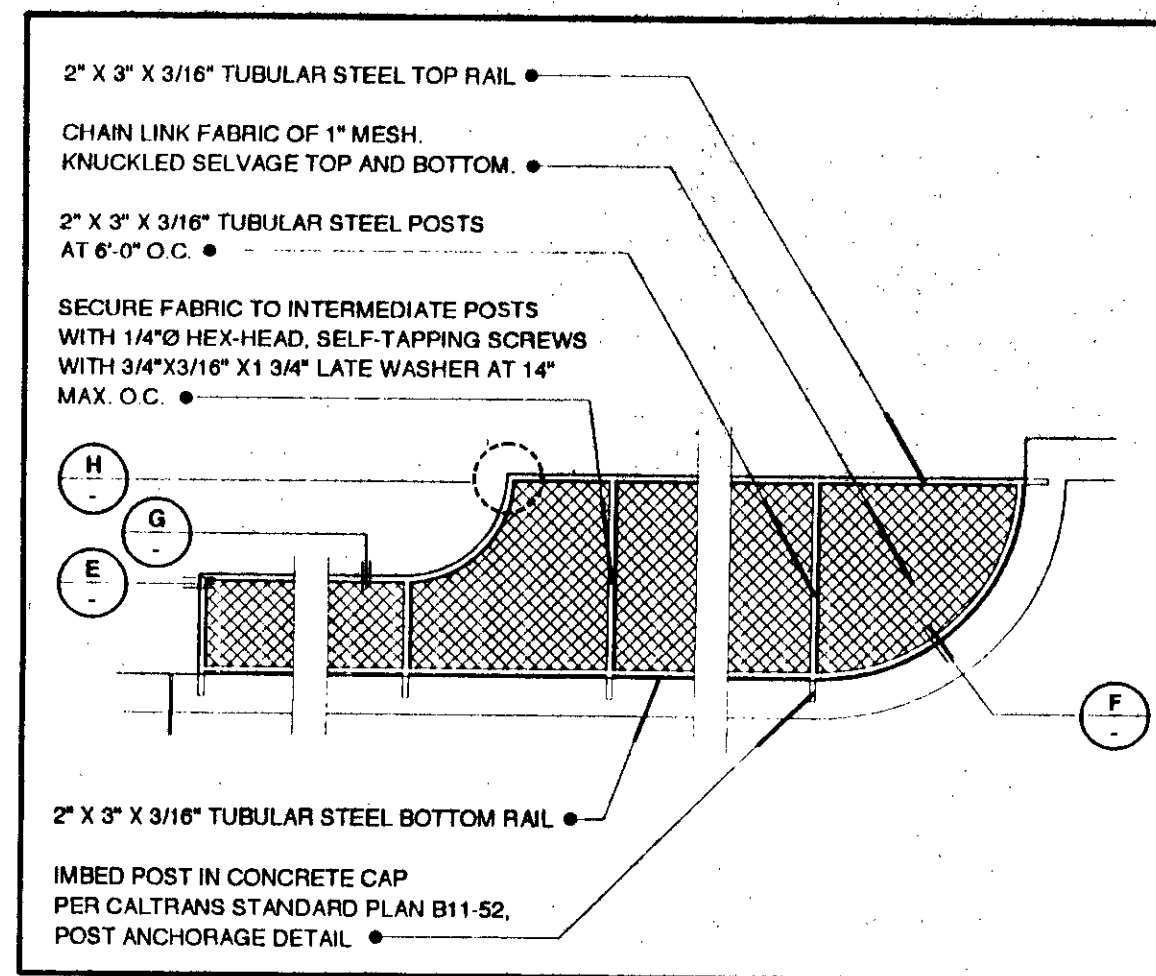
CAMBER DIAGRAM
NO SCALE



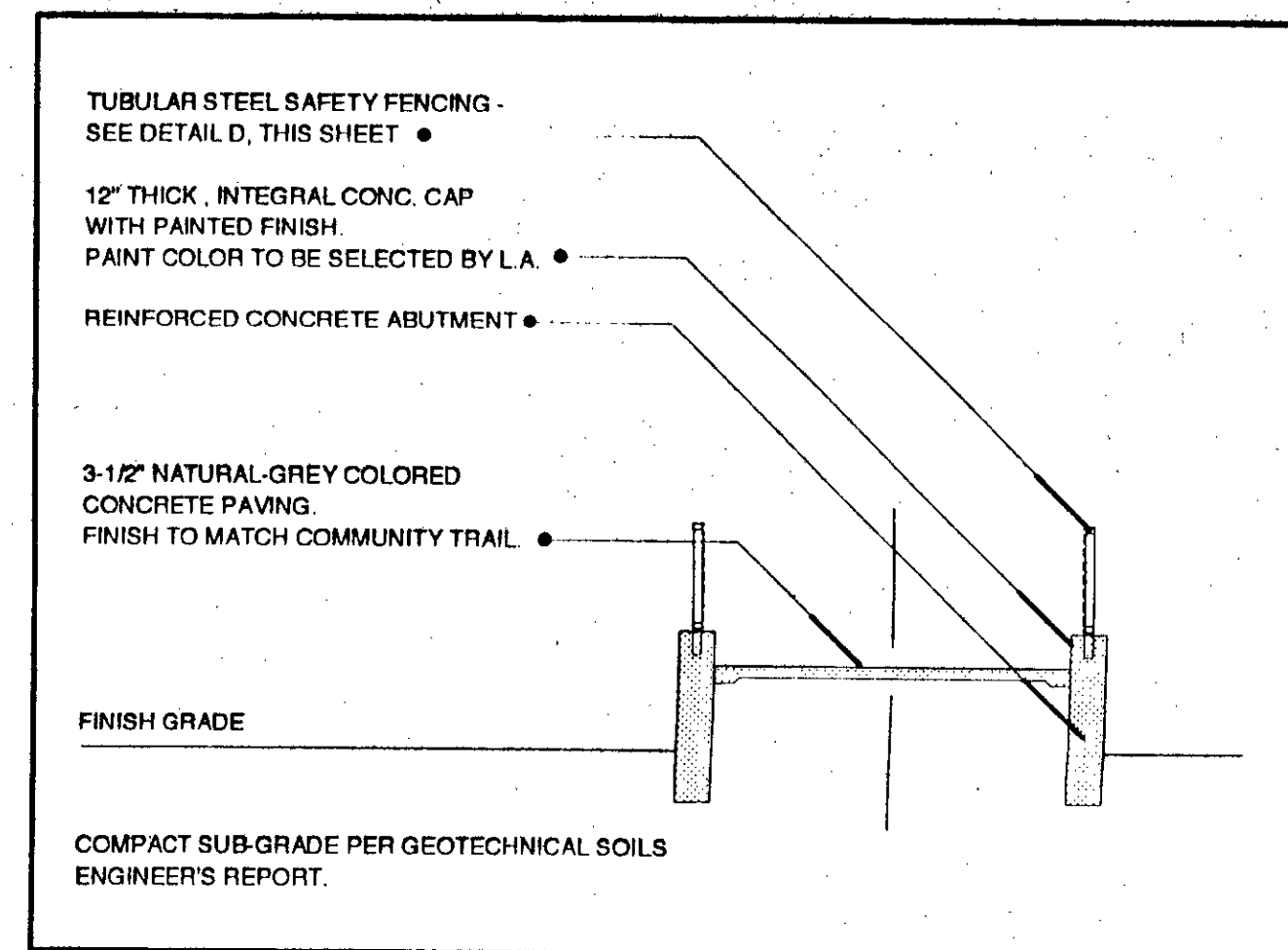
DECK LIGHT FIXTURE DETAIL
SCALE 1/2" = 1'-0"

HUITT-ZOLIARS 18101 Pied Hill Avenue, Tustin, CA 92780 (714) 259-7900 PREPARED UNDER THE SUPERVISION OF <i>William Earl</i> WILLIAM R. EARL		R.C.E. EXP. 12-31-88 DATE	DESIGNED BY WRE DRAWN BY MMF/LL CHECKED BY RJM FIELD BOOK	BR #55C 0651 GIRDER DETAILS OSO PARKWAY PEDESTRIAN BRIDGE LAS FLORES	SHEET 8 OF 10 SHEETS JOB NO. 10-0402-01
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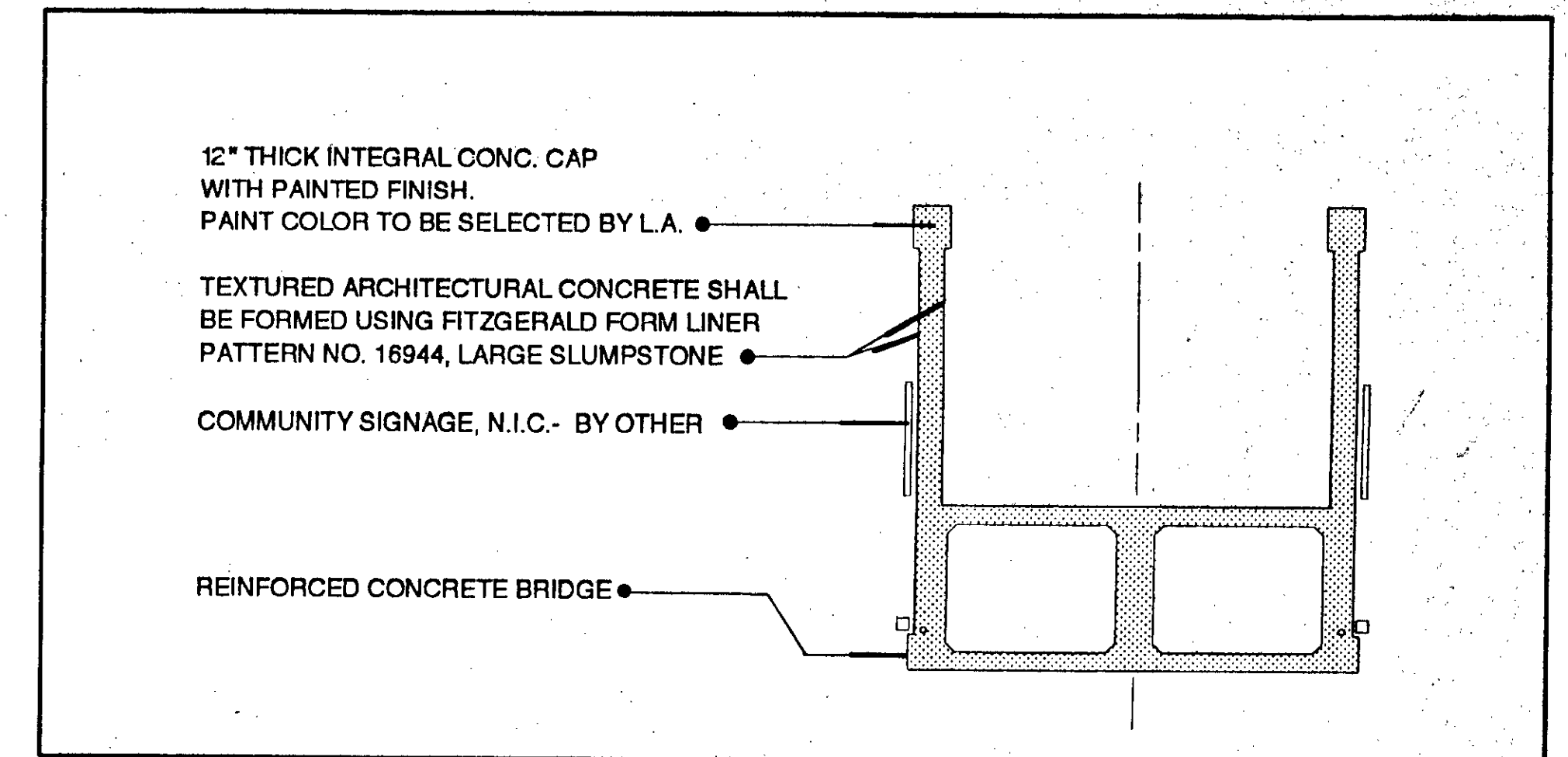
DR. 14 (16 X 232)



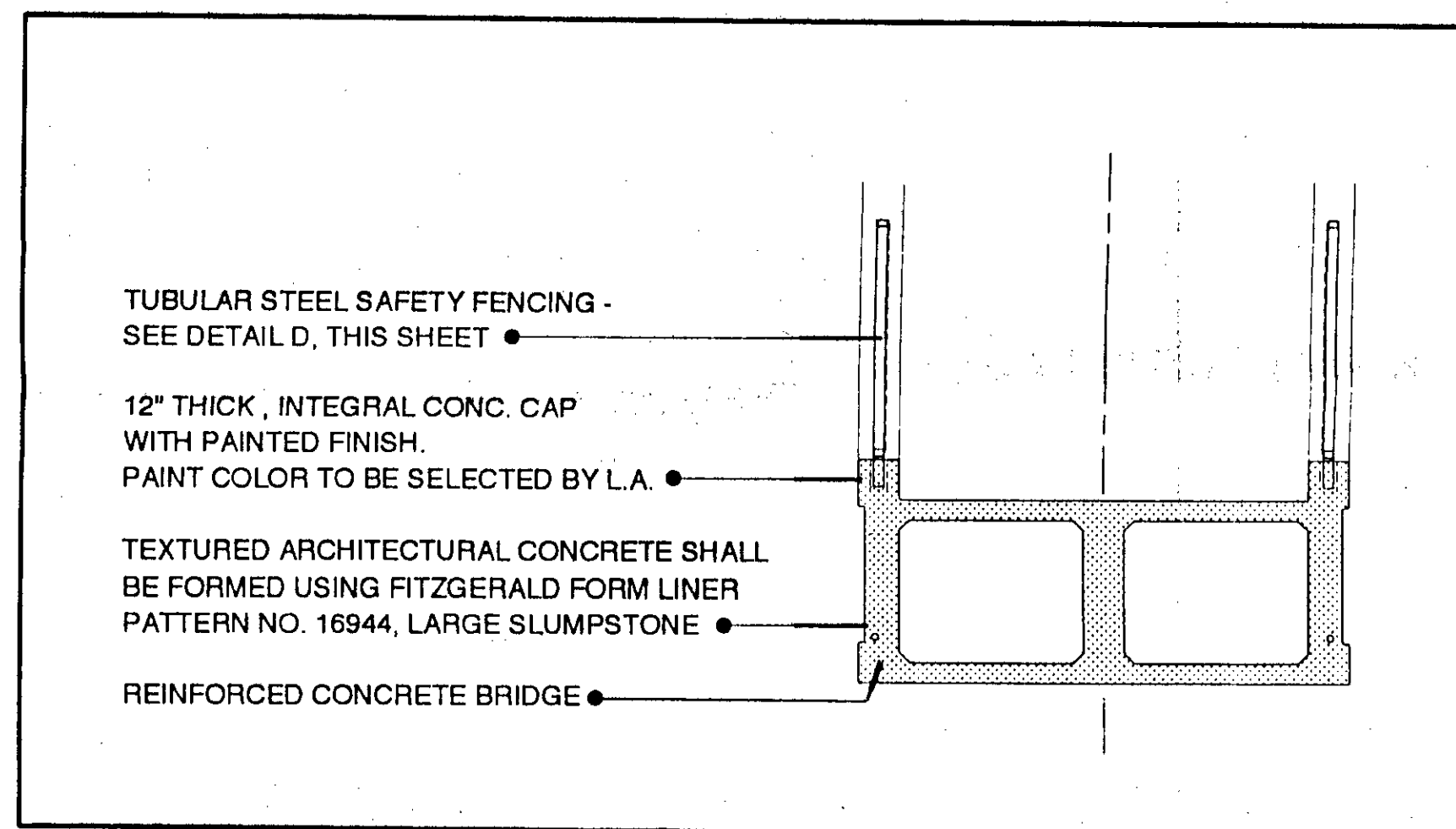
PARTIAL FENCE ELEVATION
NO SCALE



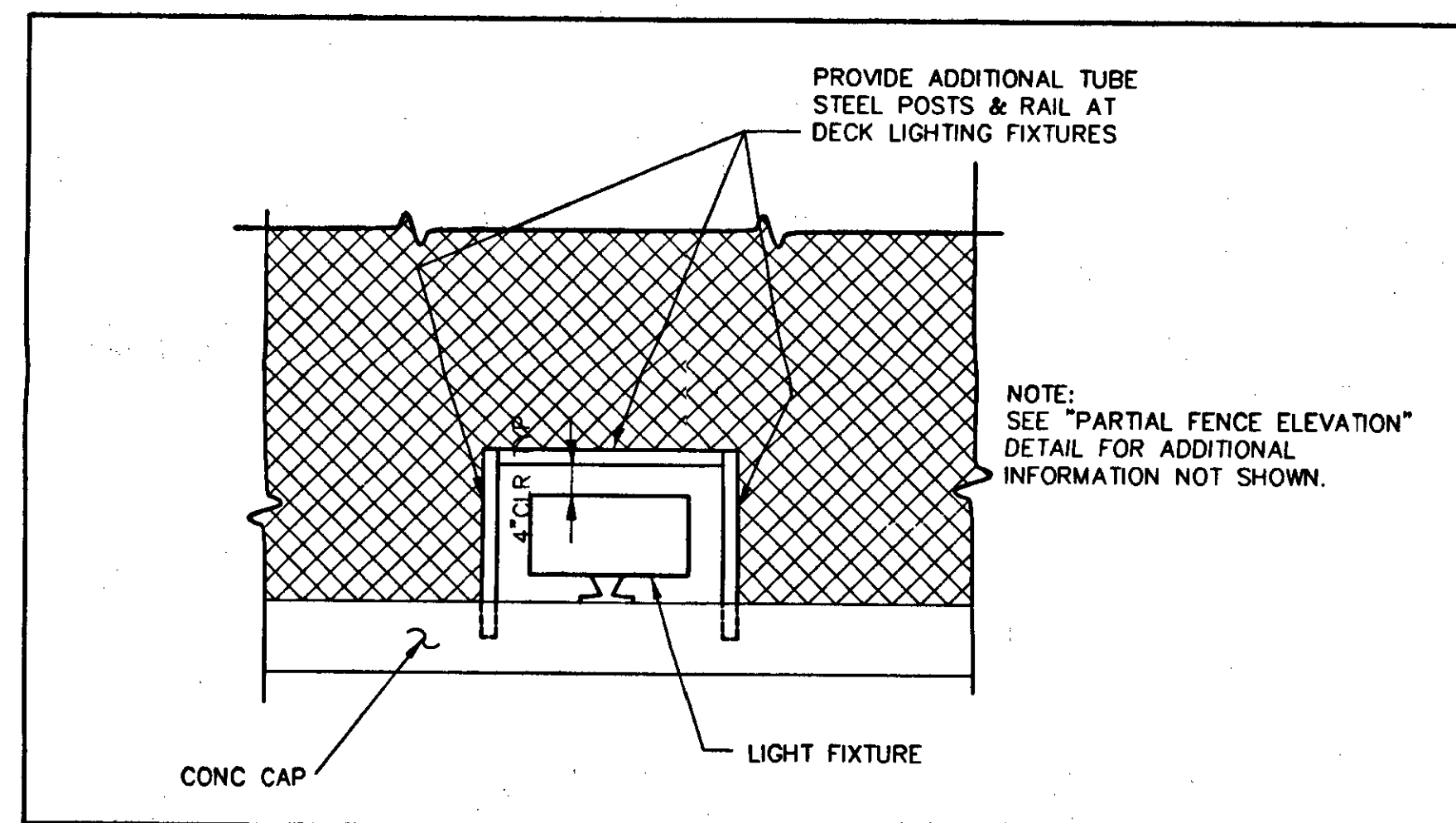
TYPICAL SECTION @ ABUTMENTS A-A
NO SCALE



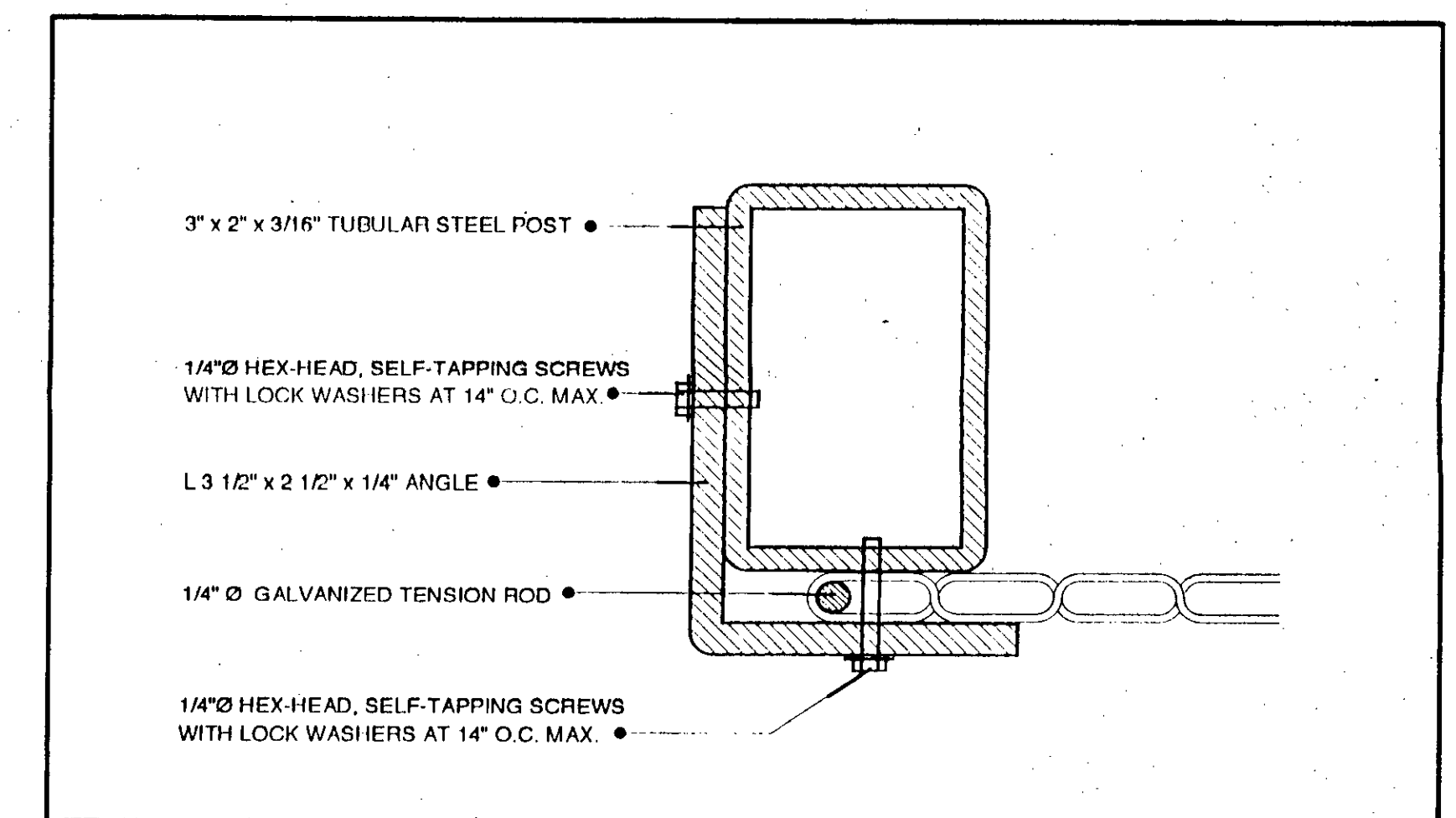
TYPICAL SECTION @ SIGNAGE B-B
NO SCALE



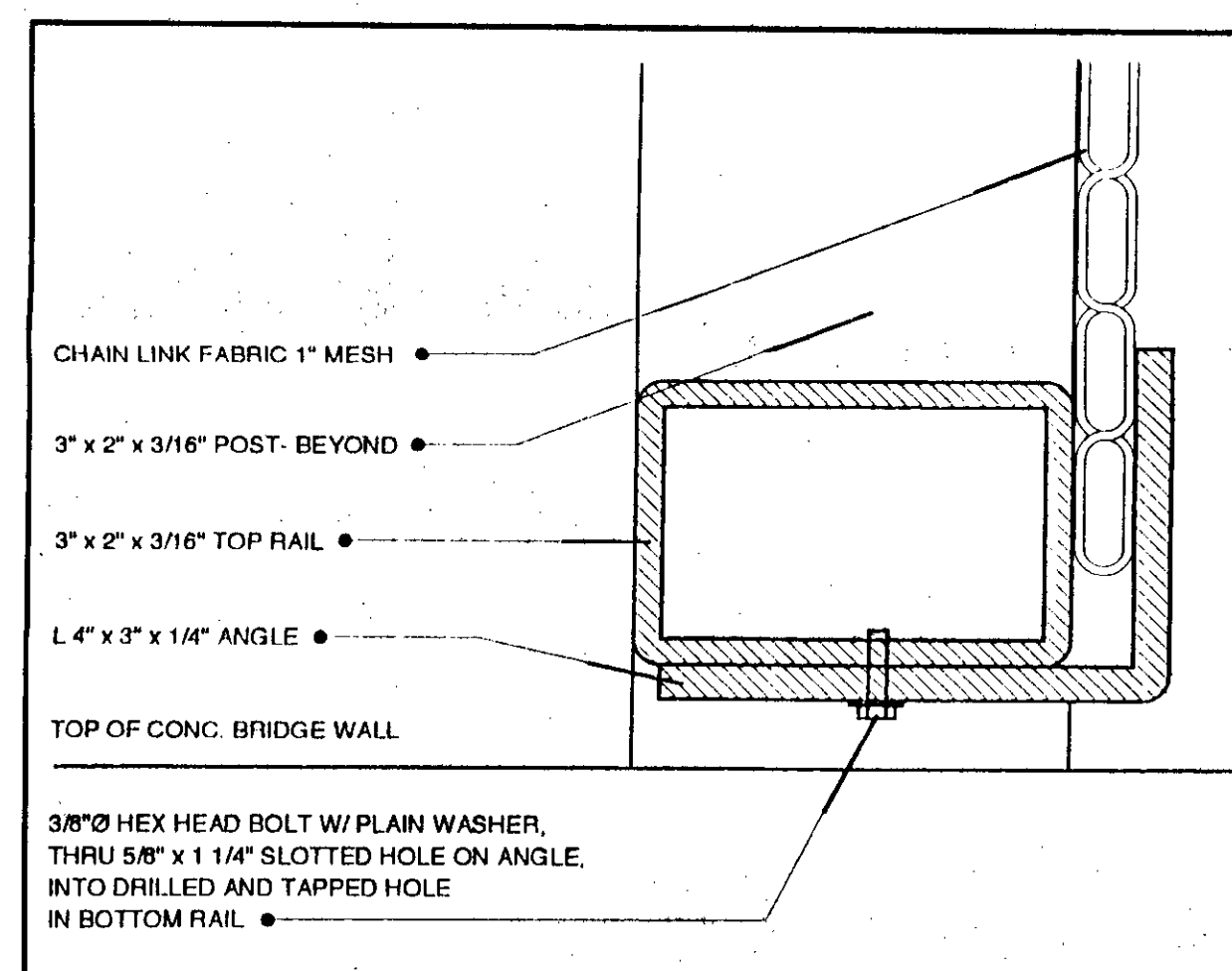
TYPICAL SECTION THRU STRUCTURE C-C
NO SCALE



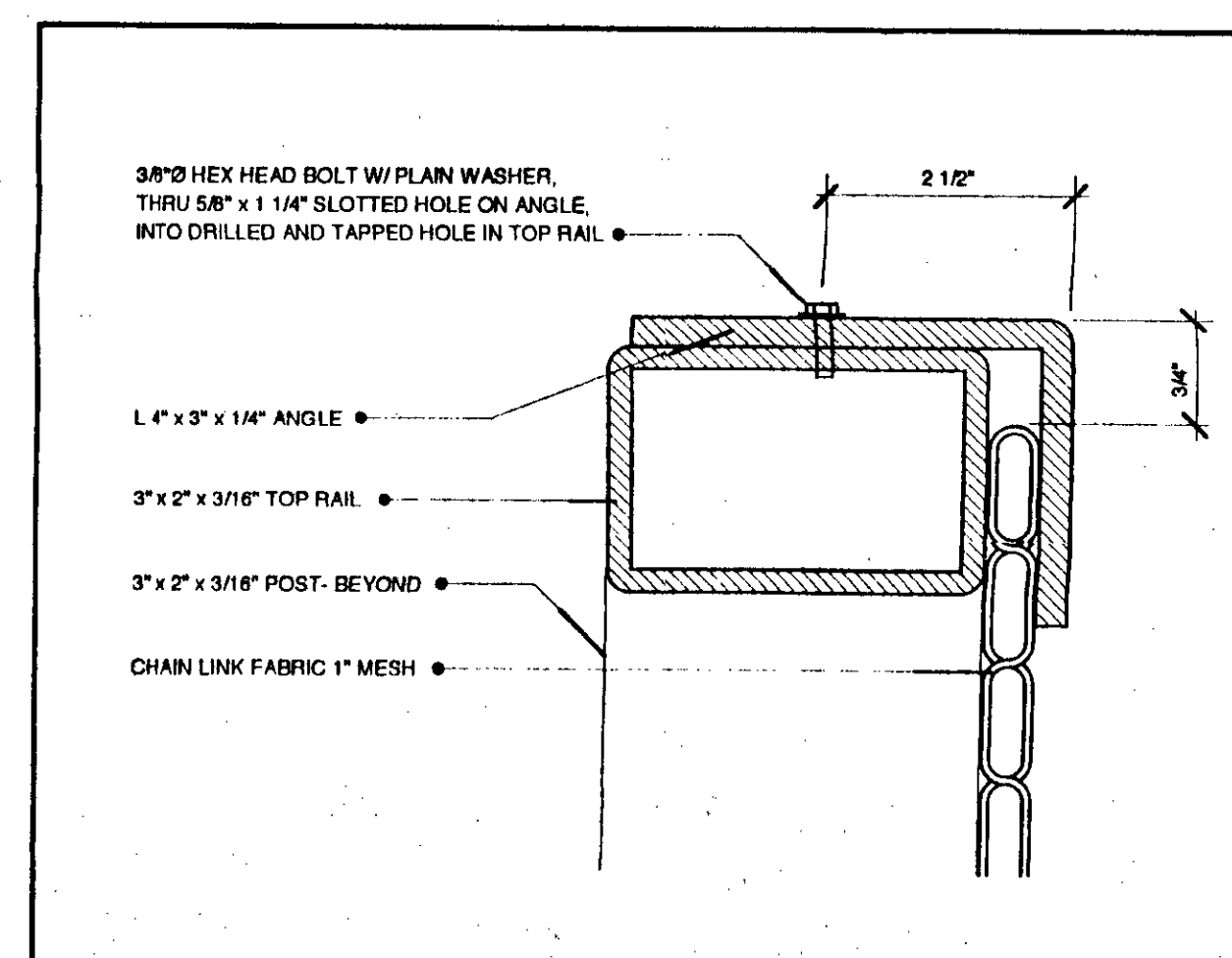
PARTIAL FENCE ELEVATION D-D (MODIFIED)
NO SCALE



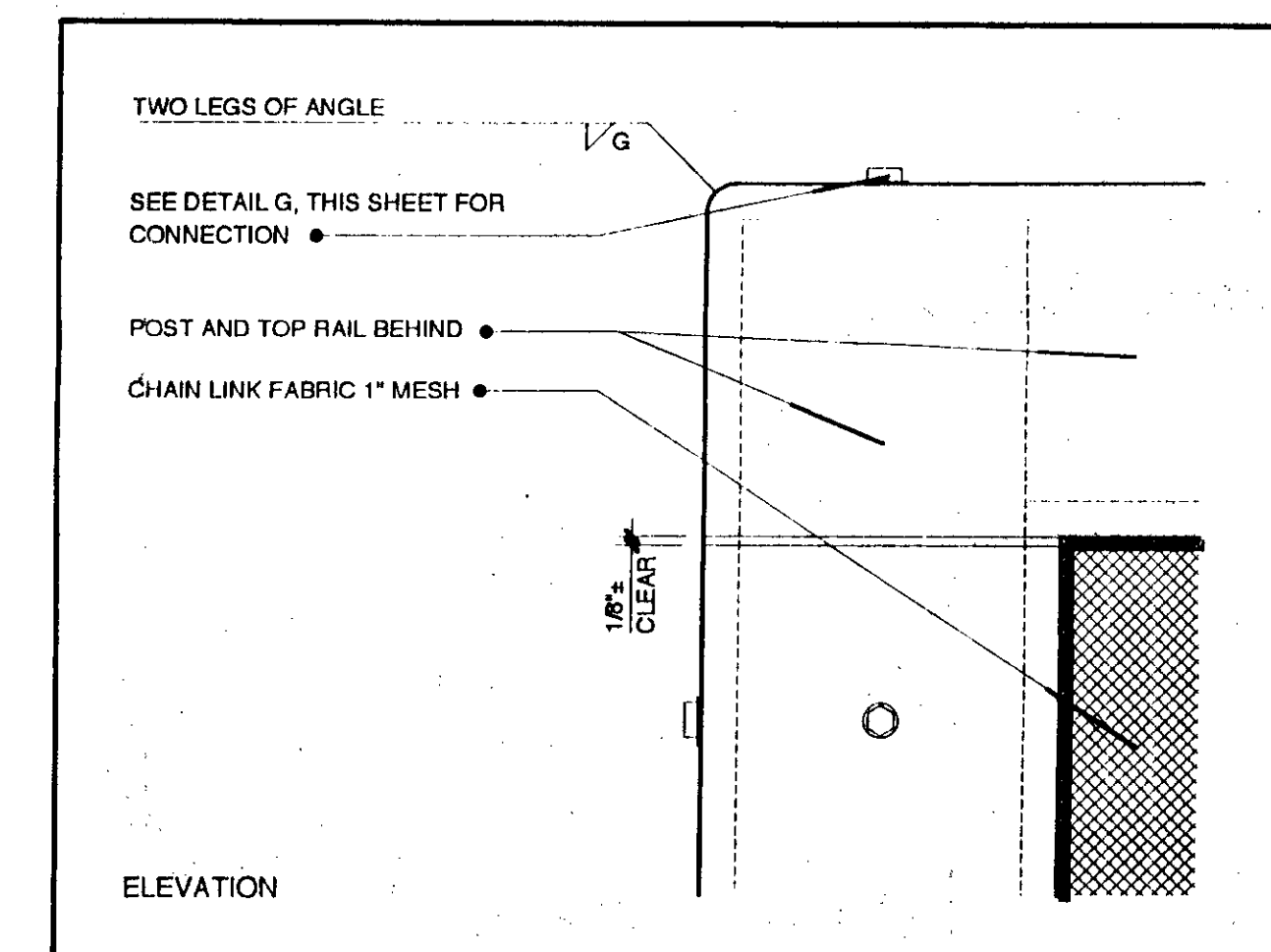
FENCE DETAIL E-E
NO SCALE



FENCE DETAIL F-F
NO SCALE



FENCE DETAIL G-G
NO SCALE



FENCE DETAIL H-H
NO SCALE

			HUITT-ZOLLARS Huitt-Zollars, Inc. 15101 Red Hill Avenue, Tustin, CA 92780 (714) 259-7900 PREPARED UNDER THE SUPERVISION OF <i>William Earl</i> WILLIAM R. EARL			R.C.E. C45652 12-31-98 1-20-99	DATE 12-31-98 1-20-99	DESIGNED BY WRE DRAWN BY LL CHECKED BY WRE FIELD BOOK	BR # 53C 0651 ARCHITECTURAL DETAILS OSO PARKWAY PEDESTRIAN BRIDGE LAS FLORES		SHEET 9 OF 10 SHEETS
NO.	DESCRIPTION	BY	DATE	APPROVED	DATE				JOB NO. 10-0402-01	C:\MARIA\DWG\104020104 12298	

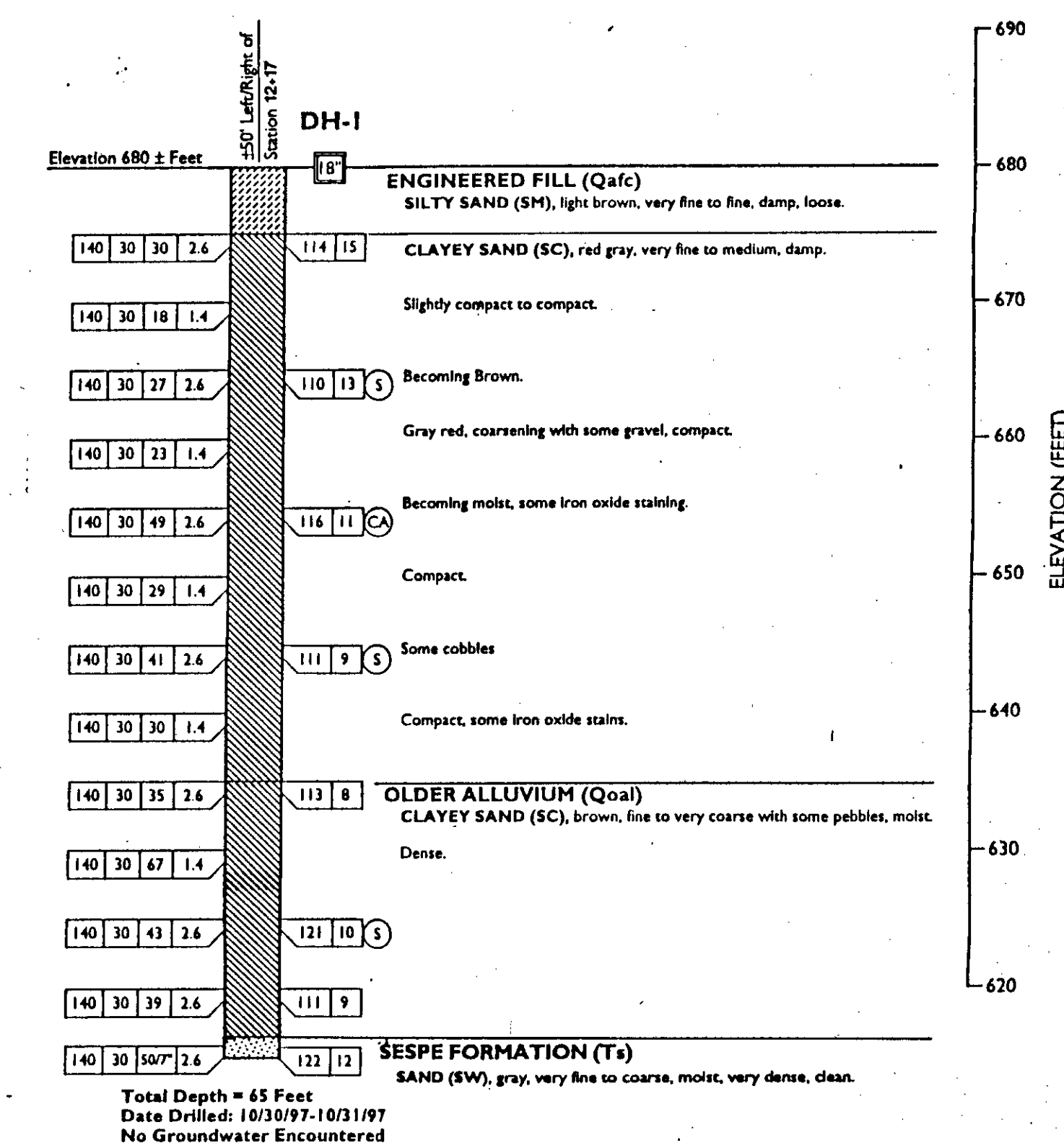
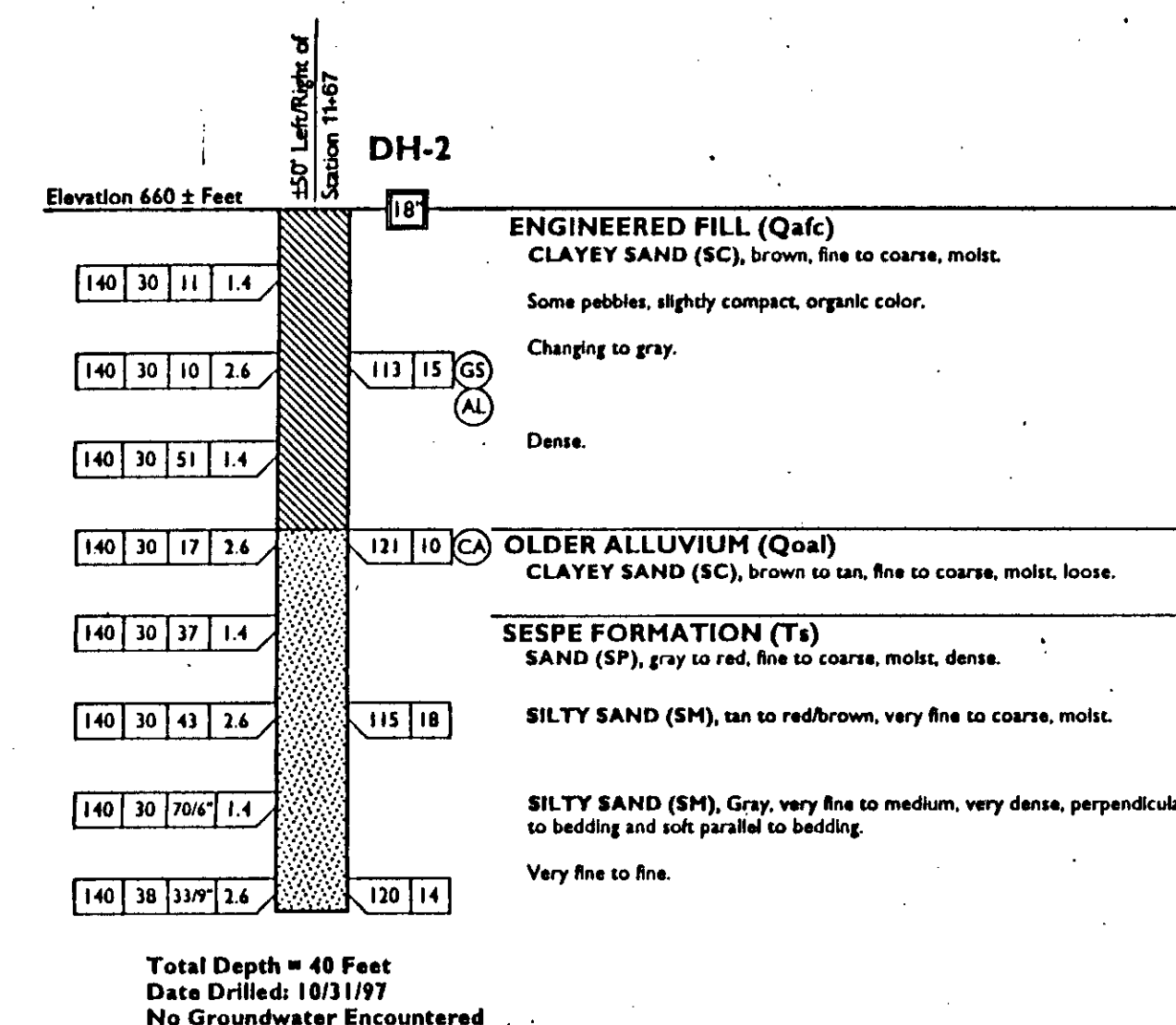
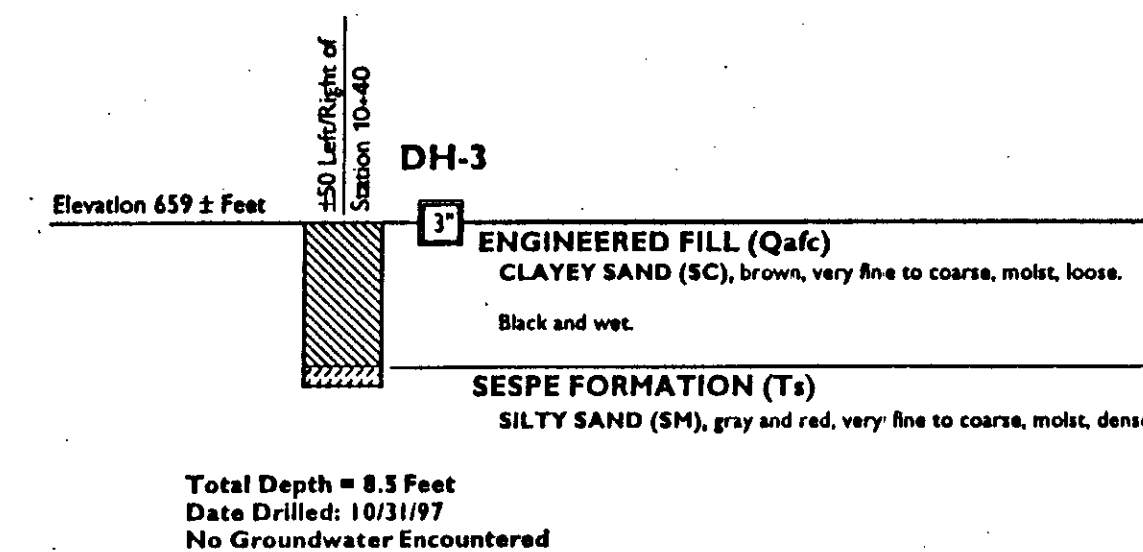
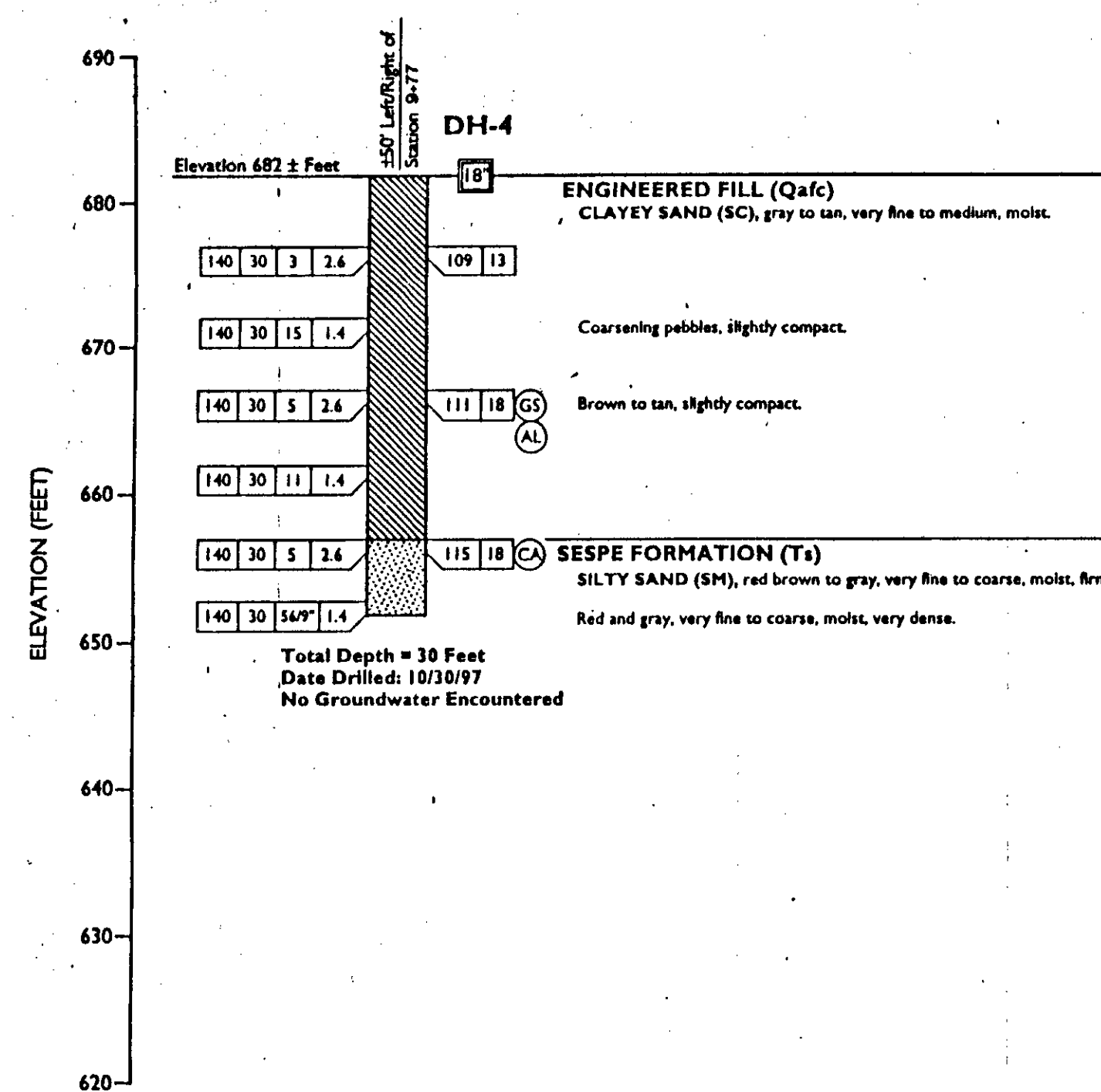
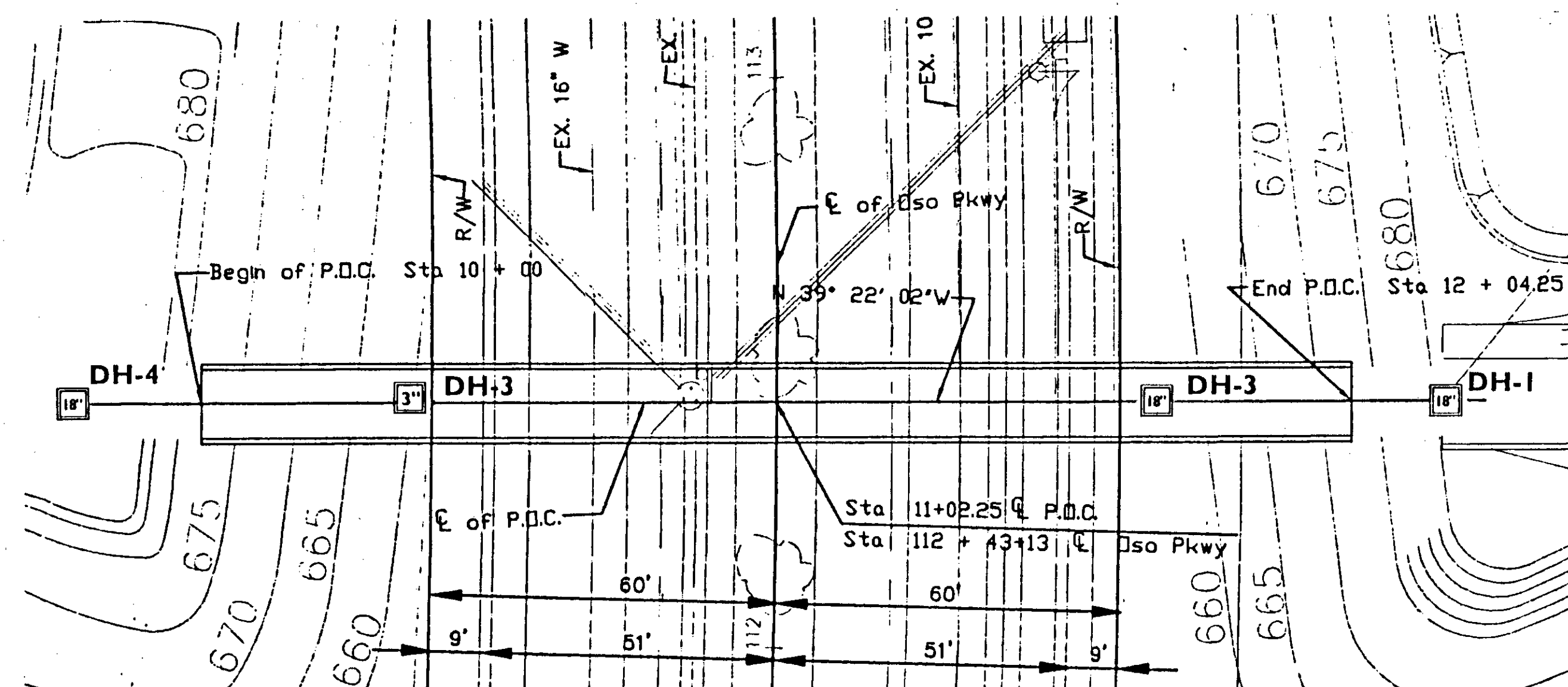
DR. H 416 X 232

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

 GEOTECHNICAL PROFESSIONAL

 PLANS APPROVAL DATE

GOFFMAN, McCormick & URBAN, Inc.
 23241 Arroyo Vista
 Rancho Santa Margarita, CA 92688
 Project No.: 97-84



NOTES:
1. Boring Locations are Approximate and were not Surveyed
2. Borings Logged by M. Tardif, Geologist.
3. Samples: 3.4" O.D., 2.6" I.D.
2.0" O.D., 1.4" I.D.

BR # 55C 065

Plate 4

LOG OF TEST BORINGS

OSO PARKWAY PEDESTRIAN BRIDGE

**ORANGE COUNTY
ENVIRONMENTAL MANAGEMENT AGENCY**

DESIGN OVERSIGHT		DRAWN BY H. LEE	FIELD INVESTIGATOR	PROJECT ENGINEER	BRIDGE NO.	ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY			
SIGN OFF DATE		CHECKED BY G. SILVER	DATE		POST MILE				
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					CU 6A	REVISION DATES (PRELIMINARY STAGE ONLY)			
					DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET 10 OF 10			

ORIGINAL SCALE IN INCHES
FOR REDUCED PLANS

CU
FA

DISREGARD PRINTS BEARING
EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET OF

CONSISTENCY CLASSIFICATION FOR SOILS		According to the Standard Penetration Test	
Penetration Index (Blows/Ft.)	Granular	Cohesive	
0-4	Very Loose	Very Soft	
5-9	Loose	Soft	
10-19	Slightly Compact	Stiff	
20-34	Compact	Very Stiff	
35-69	Dense	Hard	
> 70	Very Dense	Very Hard	

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

PROFILE
Horizontal: 1" = 20'
Vertical: 1" = 10'

TL 6051 REV. 2/92 92 6401

DR. 14 468232