

ORANGE COUNTY

RESOURCES & DEVELOPMENT MANAGEMENT DEPARTMENT

SANTA ANA, CALIFORNIA

BRYAN SPEEGLE, DIRECTOR

PLANS FOR TEMPORARY REFURBISHMENT AND DECK REPLACEMENT OF EDINGER AVENUE BRIDGE AT SUNSET AQUATIC PARK

DECEMBER, 2005

PURPOSE OF THIS PROJECT: THIS IS A TEMPORARY REPAIR ONLY TO ALLOW THE FUTURE FUNDING AND CONSTRUCTION OF A NEW BRIDGE WITHIN FIVE YEARS.

FUNDED BY: HARBORS BEACHES & PARKS

RESOURCES & DEVELOPMENT MANAGEMENT DEPARTMENT



SUBMITTED *Jerry D. Sterling* 1/5/06
JERRY D. STERLING, SR. CIVIL ENGINEER DATE
OPERATIONS & MAINTENANCE, ENGINEERING

RESOURCES & DEVELOPMENT MANAGEMENT DEPARTMENT

RESOURCES & DEVELOPMENT MANAGEMENT DEPARTMENT

APPROVED: *Kevin Thomas* 1/5/06 DATE
KEVIN THOMAS
DIRECTOR HARBORS, BEACHES AND PARKS

INDEX OF SHEETS

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1	TITLE SHEET
2	PLAN
3	BENT REPAIR
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5	DECK DETAIL

BASIS of BEARINGS

THE BASIS OF BEARINGS SHOWN IS THE
OCS GPS STATIONS #Q940 AND #Q944, BEING N76°47'10"W.

HORIZONTAL DATUM

COORDINATES SHOWN HEREON ARE BASED ON THE CALIFORNIA
COORDINATE SYSTEM (CCS83), ZONE VI, 1983 NORTH AMERICAN
DATUM (1991.35 EPOCH G.P.S. ADJUSTMENT).

DISTANCES SHOWN ARE GROUND. MULTIPLY GROUND DISTANCES
BY 0.99998291... TO OBTAIN GRID DISTANCES.

VERTICAL DATUM

B.M. #5-11-19 ELEV. = 10.850_ LEVELED 1995_

NGVD 1929 (1995 O.C.S. ADJUSTMENT)

VICINITY MAP

LOCATION MAP

REVISIONS			
NO.	DESCRIPTION	SHT.	DATE
1	AS BUILT	24, 53	5/4/07
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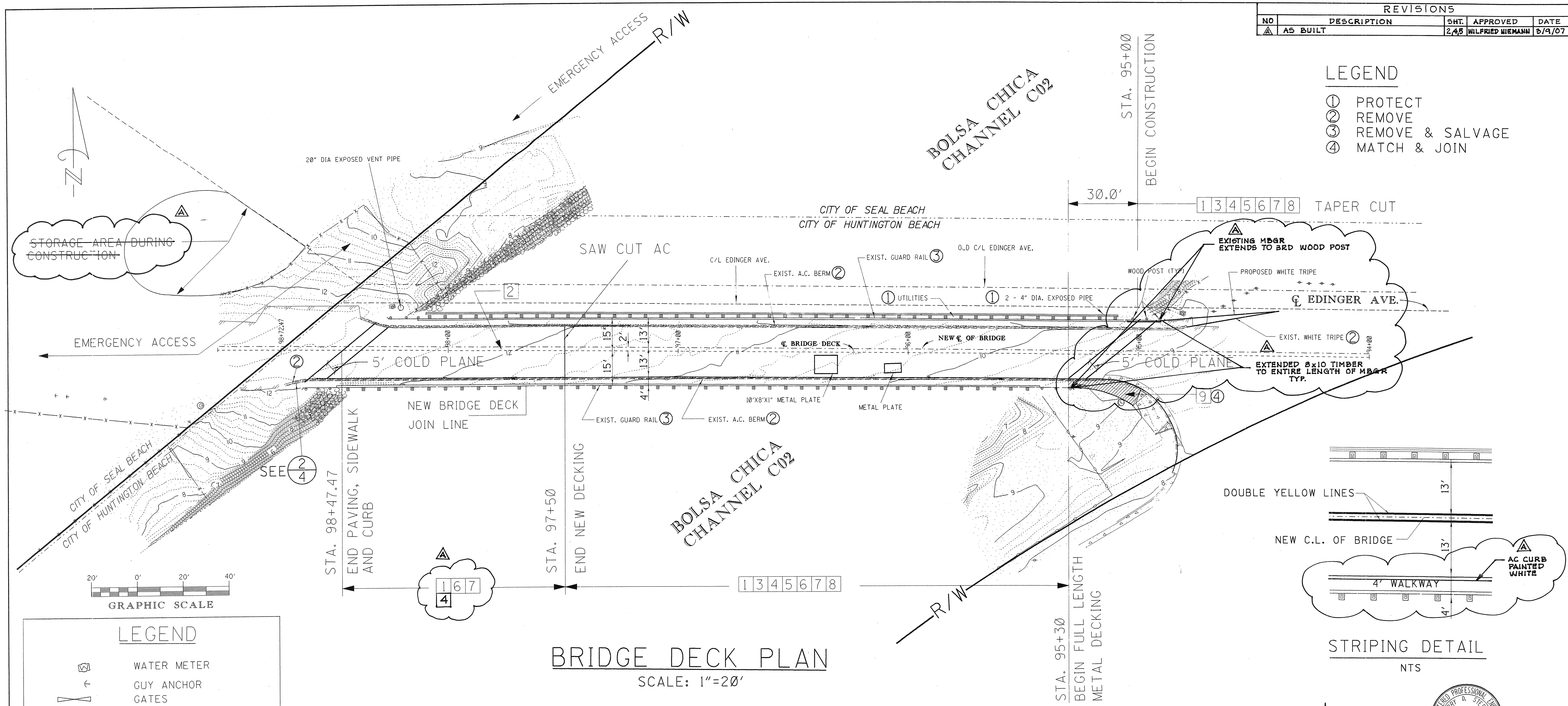
W. O. NO. EH25087
DWG. NO. _____

SHEET 1 OF 5

REVISIONS				
NO	DESCRIPTION	SHT	APPROVED	DATE
1	AS BUILT	2, 4, 5	WILFRIED NIEMANN	3/9/07

LEGEND

- ① PROTECT
- ② REMOVE
- ③ REMOVE & SALVAGE
- ④ MATCH & JOIN



BRIDGE DECK PLAN
SCALE: 1"=20'

CONSTRUCTION NOTES

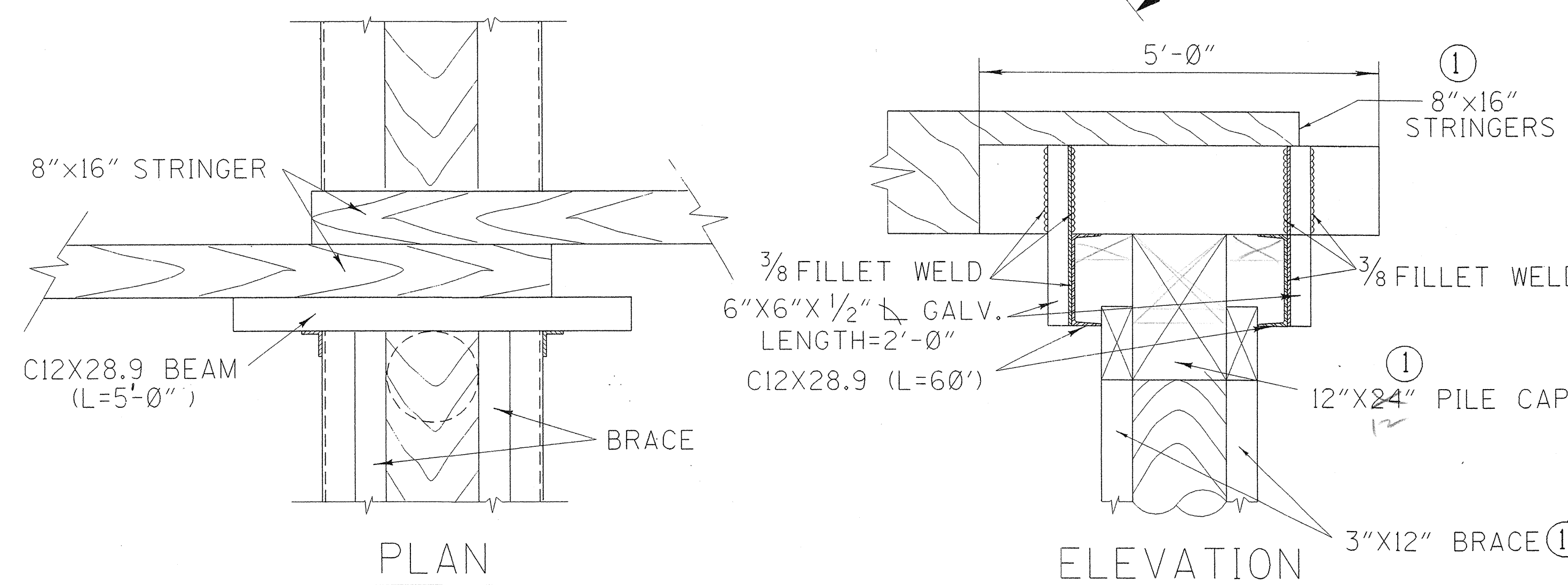
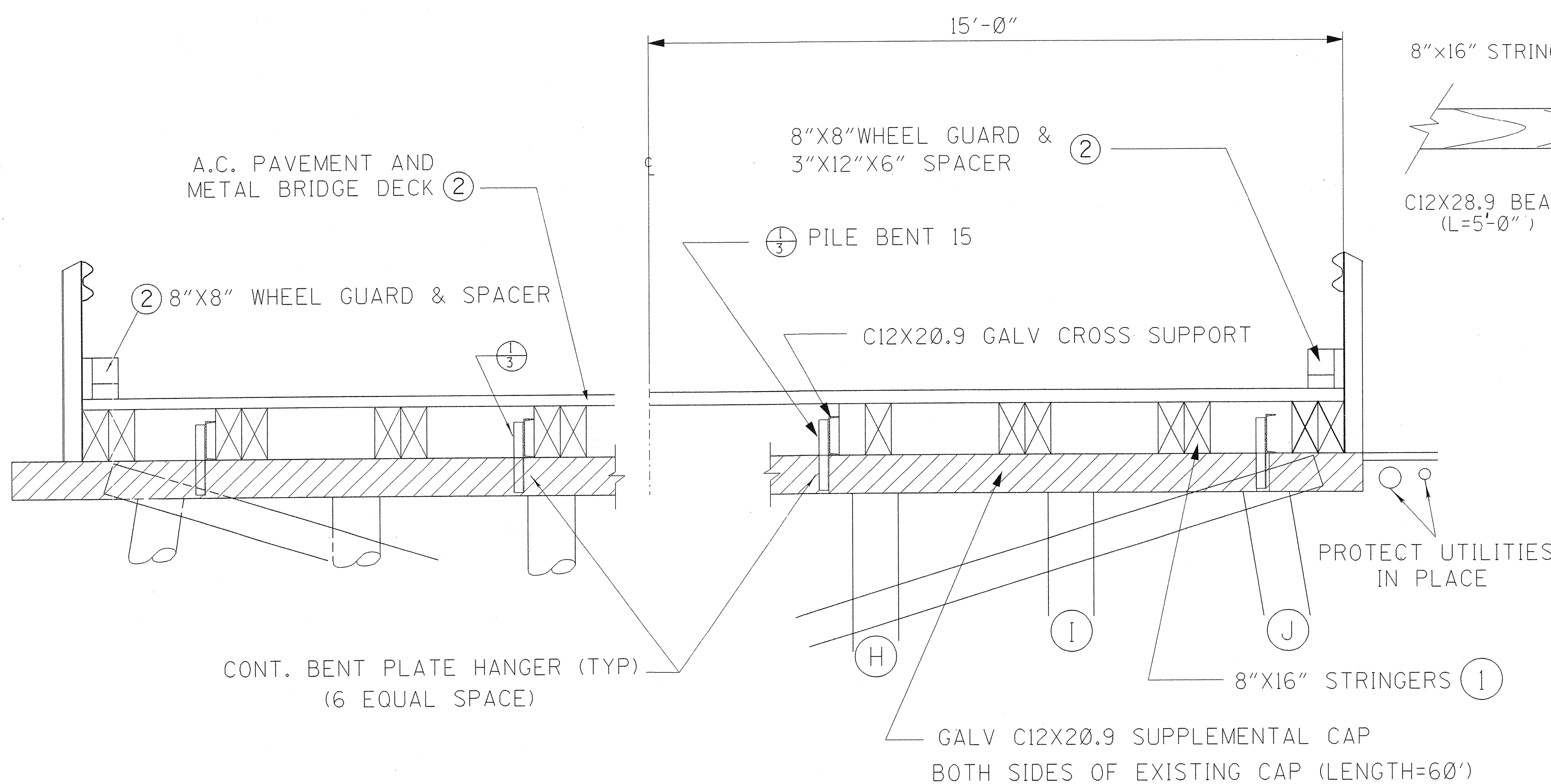
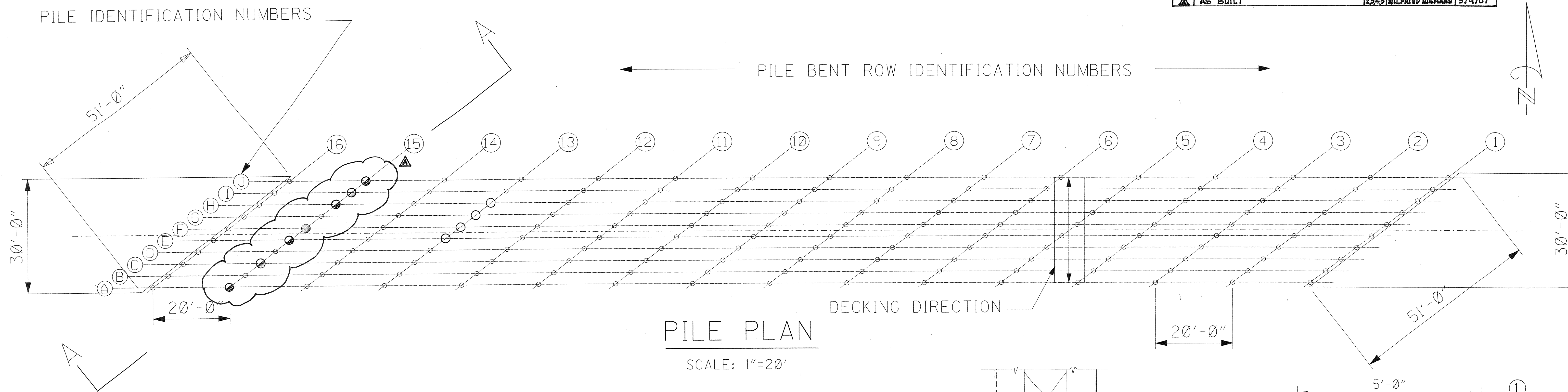
- 1 PROVIDE A DEBRIS CATCHING DEVICE TO KEEP DEBRIS AND MATERIAL OUT OF BOLSA CHICA CHANNEL PER DETAIL SHEET 4.
- 2 REINFORCE BENT 15 PER PLAN AND DETAILS SHEET 3 (LENGTH=60').
- 3 REPLACE EXISTING 6"x2"x30' STEEL DECK WITH GALV. 12 GAGE 6"x2"x30' CONTECH BRIDGE DECK OR APPROVED EQUAL PER PLAN, AND DETAIL SHEETS 4 AND 5.
- 4 INSTALL TREATED 10"x8" PER PLAN AND DETAILS SHEET 4.
- 5 SURFACE GALV. STEEL DECK WITH 0.60' ASPHALT PER PLAN AND DETAIL SHEET 4.
- 6 CONST. ASPHALT CURB TYPE D1-6 PER STD. PLAN APWA 120-0 & 120-0C & DETAIL SHT. 4.
- 7 CONSTRUCT 6" A.C. THICK SIDEWALK PER PLAN AND DETAIL SHEET 4.
- 8 REINSTALL SALVAGED BRIDGE RAILING PER PLAN AND DETAIL SHEET 4.
- 9 CONSTRUCT 4" THICK X 4' TO 8' WIDE ASPHALT SIDEWALK PER PLAN.

ORANGE COUNTY
RESOURCES & DEVELOPMENT MANAGEMENT DEPARTMENT

TEMPORARY REFURBISHMENT AND DECK REPLACEMENT OF EDINGER AVENUE BRIDGE PLAN

PREPARED UNDER SUPERVISION			J.D.S.	SHEET 2 OF 5
			DATE	
	DATE	DRAWN		
	4/2005	N.Z.		
			CHECKED	
			J.D.S.	

REVISIONS			
NO.	DESCRIPTION	BY	DATE
1	AS BUILT	MILFRIED WEGMANN	5/4/07



1
3
DETAIL
NTS (TYP. 6 PLACES)

PILE LEGEND

- SUSPECT PILE
- DESTROYED PILE
- ABRADED PILE

LEGEND

- ① PROTECT
- ② REMOVE
- ③ REMOVE & SALVAGE

PILE BENT 15 SECTION A-A

ORANGE COUNTY

RESOURCES & DEVELOPMENT MANAGEMENT DEPARTMENT

TEMPORARY REFURBISHMENT
AND DECK REPLACEMENT
OF EDINGER AVENUE BRIDGE

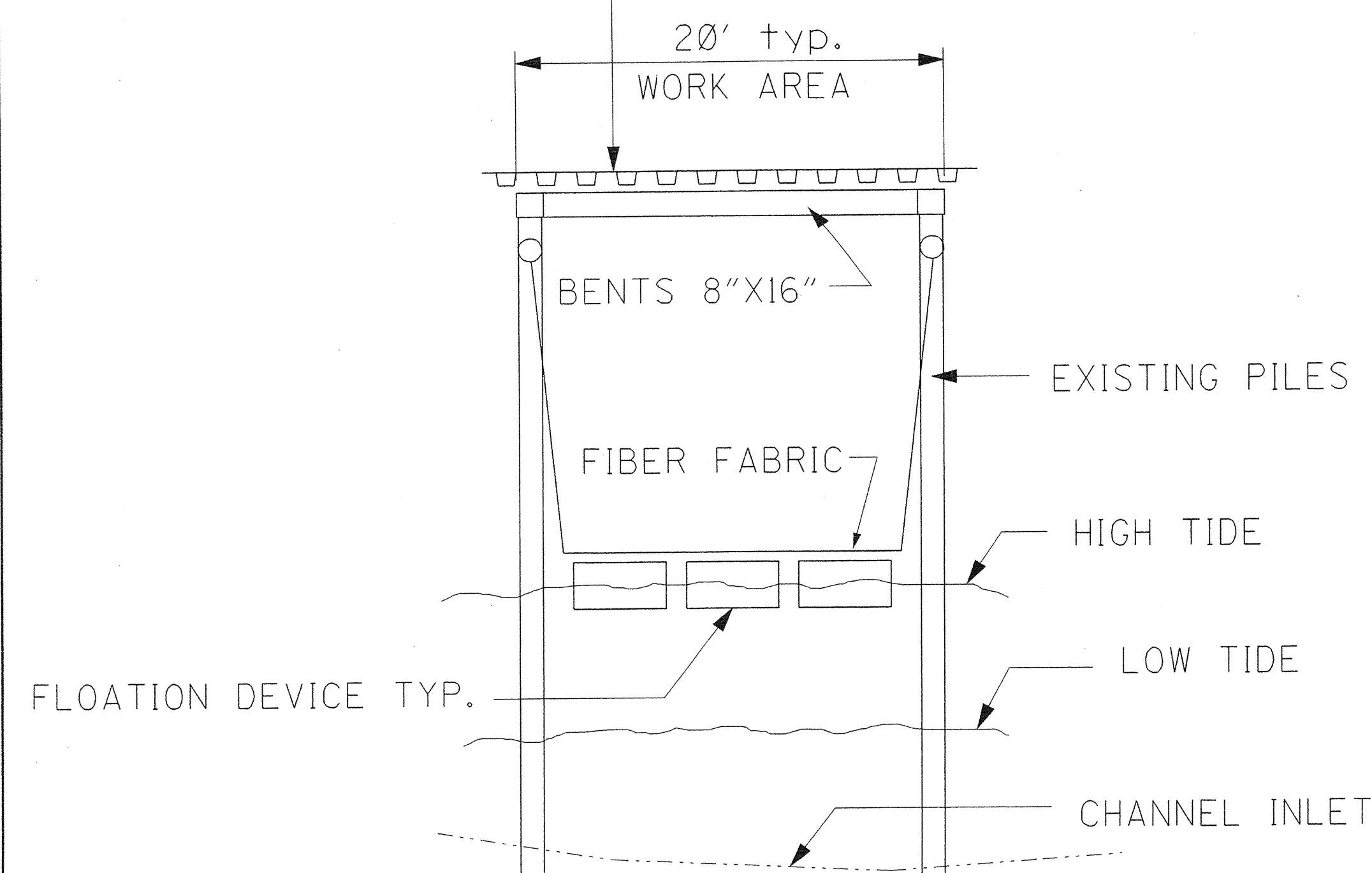
BENT REPAIR

PREPARED UNDER SUPERVISION J.D.S. DATE

DATE 3/2005 DRAWN N.Z. CHECKED J.D.S.

SHEET
3
OF 5

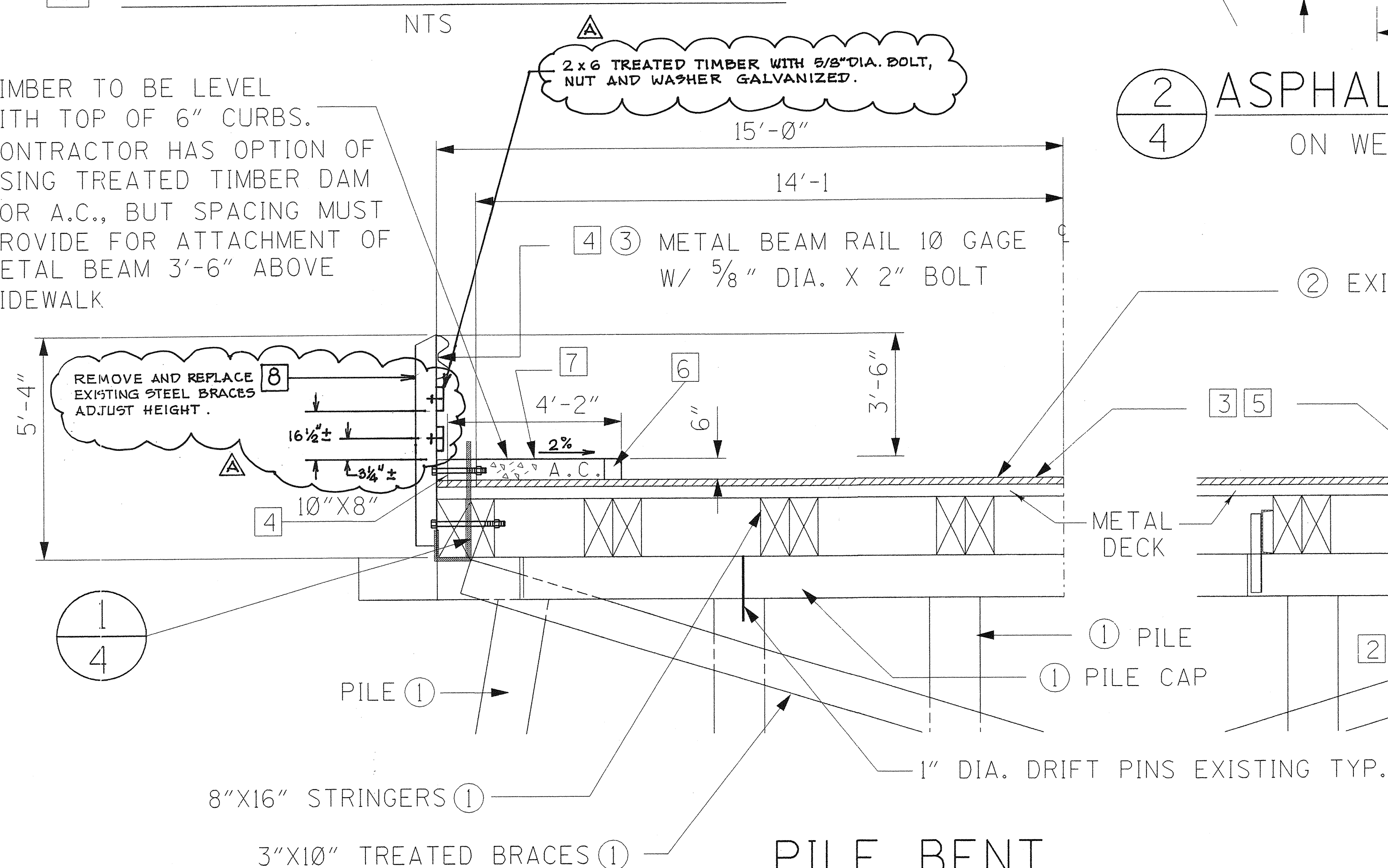
BRIDGE DECK &
ASPHALT TO BE REMOVED



1 DEBRIS CATCHING DEVICE (EXAMPLE ONLY)

NTS

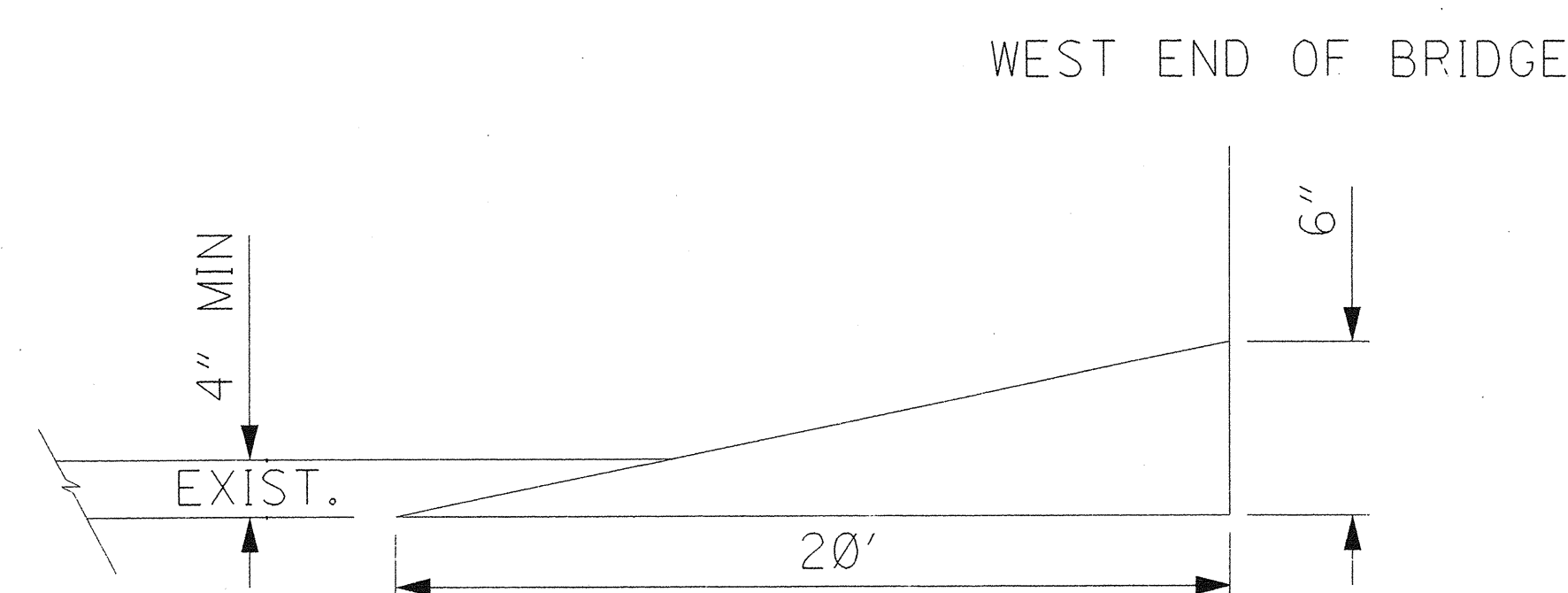
TIMBER TO BE LEVEL
WITH TOP OF 6" CURBS.
CONTRACTOR HAS OPTION OF
USING TREATED TIMBER DAM
FOR A.C., BUT SPACING MUST
PROVIDE FOR ATTACHMENT OF
METAL BEAM 3'-6" ABOVE
SIDEWALK



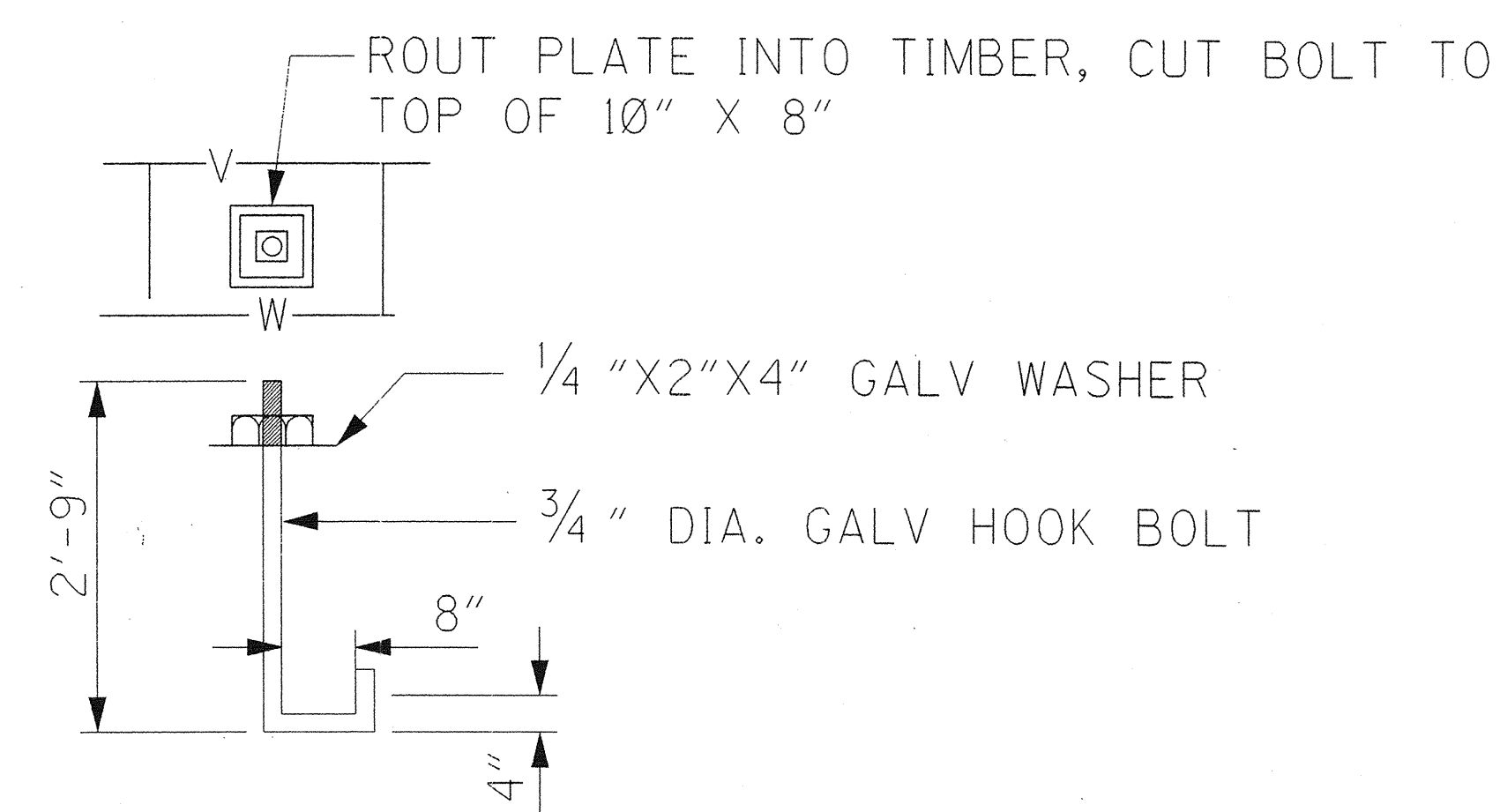
PILE BENT TYP

CONSTRUCTION NOTES

- 1 PROVIDE A DEBRIS CATCHING DEVICE TO KEEP DEBRIS AND MATERIAL OUT OF BOLSA CHICA CHANNEL PER DETAIL SHEET 4.
- 2 REINFORCE BENT 15 PER PLAN AND DETAILS SHEET 3 (LENGTH=60').
- 3 REPLACE EXISTING 2"x6"x30' STEEL DECK WITH GALV. 12 GAGE 2"x6"x30' ARCO BRIDGE DECK PER PLAN, AND DETAIL SHEETS 4 AND 5.
- 4 INSTALL TREATED 6"x6" AND 3"x6" SPACERS PER PLAN AND DETAILS SHEET 4.
- 5 SURFACE GALV. STEEL DECK WITH 4" ASPHALT PER PLAN AND DETAIL SHEET 4.
- 6 CONST. 317.47 L.F. 6" ASPHALT CURB TYPE C2 PER STD. PLAN APWA 131-0 & DETAIL SHT. 4. **PAINTED WHITE.**
- 7 CONSTRUCT 6" A.C. SIDEWALK PER PLAN AND DETAIL SHEET 4.
- 8 REINSTALL SALVAGED BRIDGE RAILING PER PLAN AND DETAIL SHEET 4.



2 ASPHALT RAMP (SIDEWALK) ON WEST END OF BRIDGE



1 HOOK BOLT

LEGEND

- 1 PROTECT
- 2 REMOVE
- 3 REMOVE & SALVAGE
- NEW A.C.

REVISIONS				
SYM.	DESC.	SHT.	APPD.	DATE
1	AS BUILT	2,4,5,3	W. NIEMANN	2/1/07

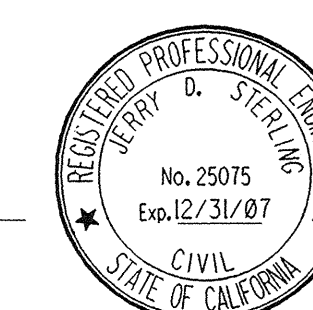
ORANGE COUNTY
RESOURCES & DEVELOPMENT MANAGEMENT DEPARTMENT

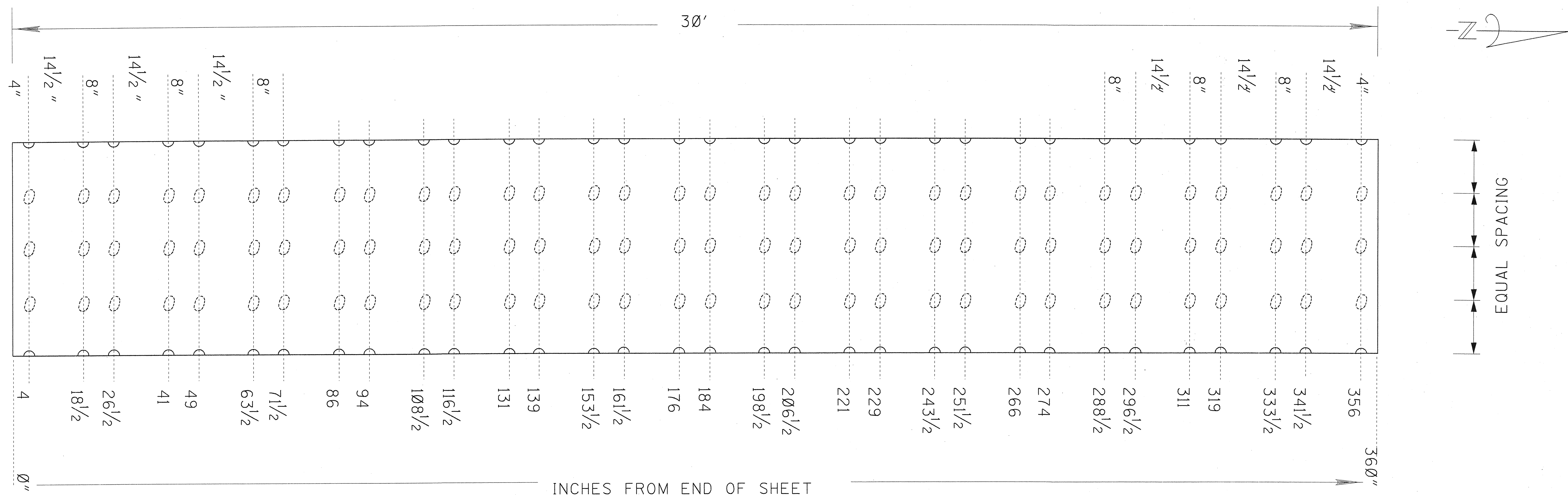
TEMPORARY REFURBISHMENT
AND DECK REPLACEMENT
OF EDINGER AVENUE BRIDGE

STRUCTURAL DETAILS

PREPARED UNDER SUPERVISION	J.D.S.	DATE
DATE	DRAWN	CHECKED
3/2005	N.Z.	J.D.S.

SHEET
4
OF 5





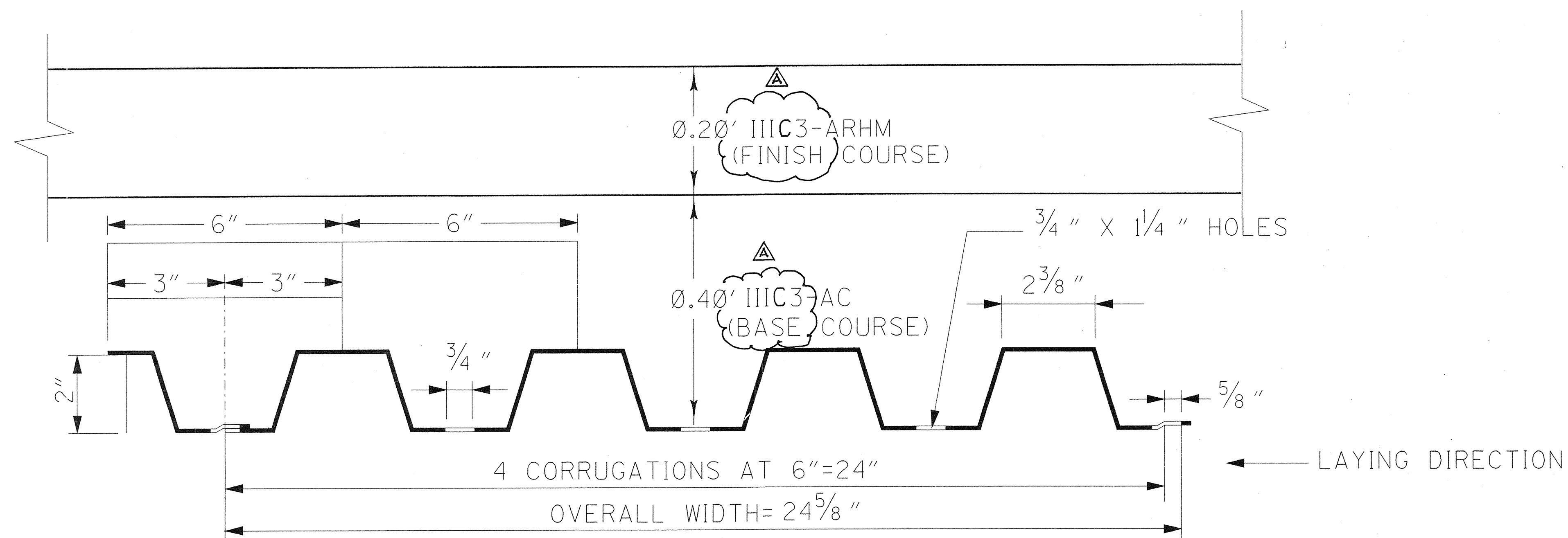
SHEET METAL DECKING - HOLE PATTERN

NTS

DESIGN CRITERIA: HS20 LOADING
 $f_s = 36,000$ psi
 WEIGHT PER SQ. FOOT = 6.2

NOTE:

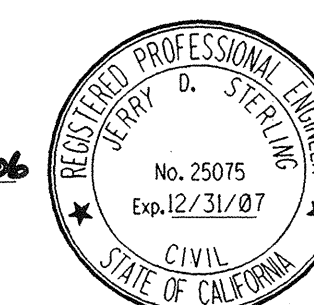
ATTACHMENT SHALL BE WITH $\frac{3}{8}$ " X 7" HOT DIP GALV. LAG SCREWS AND $\frac{1}{8}$ " X $1\frac{1}{2}$ " WASHERS.



CROSS SECTION- BRIDGE PLANK

NTS

John Staley 1/5/06



AS BUILT	SHT.	W. NIEMANN	3/9/07
SYM.	DESCRIPTION	2,4,5,3	APPROVED DATE
REVISIONS			
ORANGE COUNTY			
RESOURCES & DEVELOPMENT MANAGEMENT DEPARTMENT			
TEMPORARY REFURBISHMENT AND DECK REPLACEMENT OF EDINGER AVENUE BRIDGE			
DECK DETAIL			
PREPARED UNDER SUPERVISION		J.D.S.	DATE
DATE	DRAWN	N.Z.	CHECKED
3/2005		J.D.S.	

SHEET
5
OF 5