

CITY OF FERNANDINA BEACH, FLORIDA
MAIN BEACH – ELEVATED BOARDWALK
FERNANDINA BEACH, FLORIDA

PREPARED BY:
GILLETTE AND ASSOCIATES, INC.
20 SOUTH 4TH STREET
FERNANDINA BEACH, FL 32034
PHONE: 904-261-8819
FAX: 904-261-9905
ASA R. GILLETTE, P.E.
FL P.E. NO. 56177

WIND LOAD BASIS:
FLORIDA BUILDING CODE, 2010
LOCATION: FERNANDINA BEACH, FL
WIND VELOCITY: 1208MPH
EXPOSURE CATEGORY: "C"
IMPORTANCE FACTOR: 1.0
INT. PRESSARE COEFF.: 0
DECK HEIGHT: VARIES
SLOPE: PER PLANS, N.T.E. 1:12
WALKWAY MODELED AS AN OPEN STRUCTURE

- REFERENCES:
- 1) FLORIDA BUILDING CODE, 2010
 - 2) AMERICAN INSTITUTE OF TIMBER CONSTRUCTION
 - 2) ASCE 7-10

DESIGN WIND PRESSURES FOR MWFRS					
LOCATION	BLDG CLASSIFICATION	V(MPH)	EXP.CAT.	P1 (PSF)	
WALLS	OPEN	120	C	+33.6	
DESIGN WIND PRESSURES FOR COMP. & CLAD ROOF					
LOCATION	ZONE	Ø	A eff.	P1 (PSF)	P1 (PSF)
WALLS	4	NA	10 S.F.	+36.4	-39.2
WALLS	5	NA	10 S.F.	+36.4	-49.0

- DRAWING LIST:
- CVR – COVER SHEET
 - MP-1 – MASTER PLAN
 - DM-1 – DEMOLITION PLAN
 - PL-1 – PHASE 1 LAYOUT
 - PL-2 – PHASE 2 LAYOUT
 - CS-1 – CROSS SECTIONS
 - S1 – PLAN AND DETAILS
 - S2 – PLAN AND DETAILS
 - S3 – PLAN AND DETAILS
 - S4 – PLAN AND DETAILS

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MAR 13 2013
DIV. 311/1 OF WATER
RESOURCE MANAGEMENT

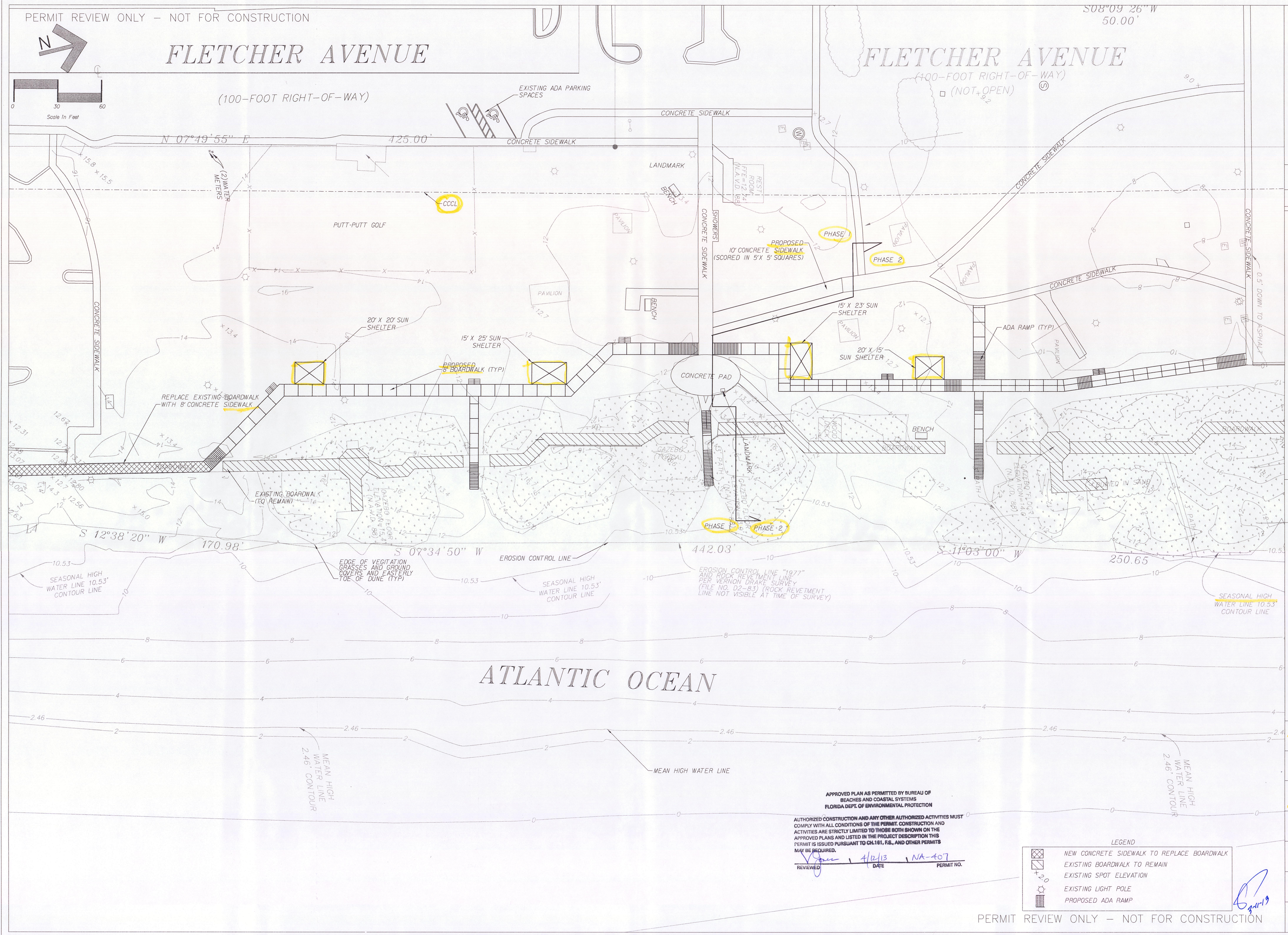
Amr
3-11-13

REV	DATE	ITEM
B	1/23/11	DEVELOPMENT SET – REVISED PER CLIENT
C	1/28/11	DEVELOPMENT SET – REVISED PER BOARD COMMENTS
D	4/29/11	DEVELOPMENT SET – MOVED BOARDWALK POSITION EAST
E	10/12/12	DEVELOPMENT SET – MOVED BOARDWALK POSITION WEST
F	2/26/13	DEVELOPMENT SET – REVISED LIGHTING PLAN AND DEMO
E	3/6/13	DEVELOPMENT SET – REVISED PER PERMIT CONDITIONS

GILLETTE & ASSOCIATES, INC. CIVIL, ENVIRONMENTAL, MECHANICAL, & STRUCTURAL ENGINEERING CERTIFICATE OF AUTHORIZATION NO. 9332 20 S. 4th STREET * FERNANDINA BEACH, FL 32034 PHONE: 904-261-8819 * FAX: 904-261-9905	CITY OF FERNANDINA BEACH MAIN BEACH BOARDWALK & CABANAS FLETCHER AVENUE FERNANDINA BEACH, FL CONTRACTOR: T.B.D.	COVER DRAWING DWG NO. REV CVR D SCALE AS NOTED DATE: 4/29/11 JOB NO: COFB_mb DRW BY: AG CHK BY: ARG
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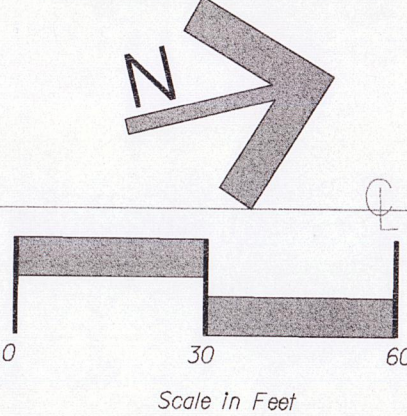
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DIVISION OF FOREST
RESOURCE MANAGEMENT



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FLETCHER AVENUE

(100-FOOT RIGHT-OF-WAY)

S08°09'26"W
50.00'
NOTE: REMOVE ROOF AND RAILINGS FROM ALL EXISTING PAVILIONS/GAZEBO
THAT ARE CONNECTED TO EXISTING BOARDWALK
ALL AREAS OF VEGETATION ARE "BEACH DUNE" CLASSIFICATION
PLANTING AREAS SHALL CONSIST OF GRASSES AND GROUND COVER
TO MATCH EXISTING VEGETATION
ALL ELEVATIONS REFER TO NORTH AMERICAN VERTICAL DATUM 1988 (N.A.V.D.88)



LEGEND		
	EXISTING BOARDWALK TO BE REMOVED	
	EXISTING SPOT ELEVATION	
	EXISTING LIGHT POLE	

APPROVED PLAN AS PERMITTED BY BUREAU OF
BEACHES AND COASTAL SYSTEMS
FLORIDA DEPT. OF ENVIRONMENTAL PROTECTION

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COMPLY WITH ALL CONDITIONS OF THE PERMIT. CONSTRUCTION AND
ACTIVITIES ARE STRICTLY LIMITED TO THOSE BOTH SHOWN ON THE
APPROVED PLANS AND LISTED IN THE PROJECT DESCRIPTION THIS
PERMIT IS ISSUED PURSUANT TO CH.161, F.S., AND OTHER PERMITS
MAY BE REQUIRED.

REVIEWED: James DATE: 4/12/13 NA-407 PERMIT NO.

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GILLETTE & ASSOCIATES, INC.	
CIVIL, ENVIRONMENTAL, MECHANICAL, & STRUCTURAL ENGINEERING	
CERTIFICATE OF AUTHORIZATION NO. 9332	
20 S. 4th STREET * FERNANDINA BEACH, FL 32034	
PHONE: 904-261-8819 * FAX: 904-261-9905	

CITY OF FERNANDINA BEACH	
MAIN BEACH BOARDWALK & CABANAS	
FLETCHER AVENUE	
FERNANDINA BEACH, FL	
CONTRACTOR: T.B.D.	

DEMOLITION PLAN	
DWG. NO.	REV
DM-1	D
SCALE	
1"=30'	
DATE:	
4/29/11	
JOB NO:	
COFB_mb	
DRW BY:	
AG	
CHK BY:	
ARC	

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RESOURCE MANAGEMENT

(100-FOOT RIGHT-OF-WAY)

(100-FOOT RIGHT-OF-WAY)

□ (NOT₀ OPEN)

50.00

REV	DATE	ITEM
B	1/23/11	DEVELOPMENT SET – REVISED PER CLIENT
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D	4/7/11	DEVELOPMENT SET – MOVED BOARDWALK POSITION EAST
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GILLETTE & ASSOCIATES, INC.
CIVIL, ENVIRONMENTAL, MECHANICAL & STRUCTURAL ENGINEERING

CITY OF FERNANDINA BEACH MAIN BEACH BOARDWALK & CABANAS	FLETCHER AVENUE FERNANDINA BEACH, FL CONTRACTOR: T.B.D.
--	---

PHASE 1
LAYOUT

DWG NO.	REV
PI 1	D

SCALE
1"=30'

DATE:
4/29/11

JOB NO:
COFB_mb

DRW BY:
AG

CHK BY:
ARG

SYMBOL	FIXTURE	TOTAL NO OF EACH FIXTURE	BULB LUMENS & TYPE	TYPE OF MOUNT	MOUNTING HEIGHT
L	LSI Ind. cy90ps, 240 volt (TO REMAIN)	5	90 watt low pressure sodium	POLE	12'
L	LSI Ind. cy90ps, 240 volt (TO BE REMOVED)	5	90 watt low pressure sodium	POLE	12'
P	DABMAR, D130, 120 VOLT, W/180° SHIELD	22	13 watt, YELLOW COMPACT FLUORESCENT	GROUND (BOLLARD)	42"

NOTES:

1. LIGHTS INCLUDED IN THIS TABLE ARE SEAWARD OF THE CCCL AND INCLUDED IN THE PHASE I PROJECT AREA
2. ALL EXISTING LIGHTING SHOWN SHALL BE EQUIPED WITH BLACK BAFFLES ON THE NORTH SOUTH AND EAST SIDE OF FIXTURES

APPROVED PLAN AS PERMITTED BY BUREAU OF
BEACHES AND COASTAL SYSTEMS
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REVIEWED V. J. [Signature] DATE 4/12/13 PERMIT NO. NA-407

LEGEND

NEW CONCRETE SIDEWALK TO REPLACE BOARDWALK
EXISTING BOARDWALK TO REMAIN
EXISTING SPOT ELEVATION
EXISTING LIGHT POLE "L"
PROPOSED LIGHT "P"
PROPOSED ADA RAMP

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FLETCHER AVENUE

(100-FOOT RIGHT-OF-WAY)

FLETCHER AVENUE

(100-FOOT RIGHT-OF-WAY)

(NOT OPEN)

DOLPHIN STREET

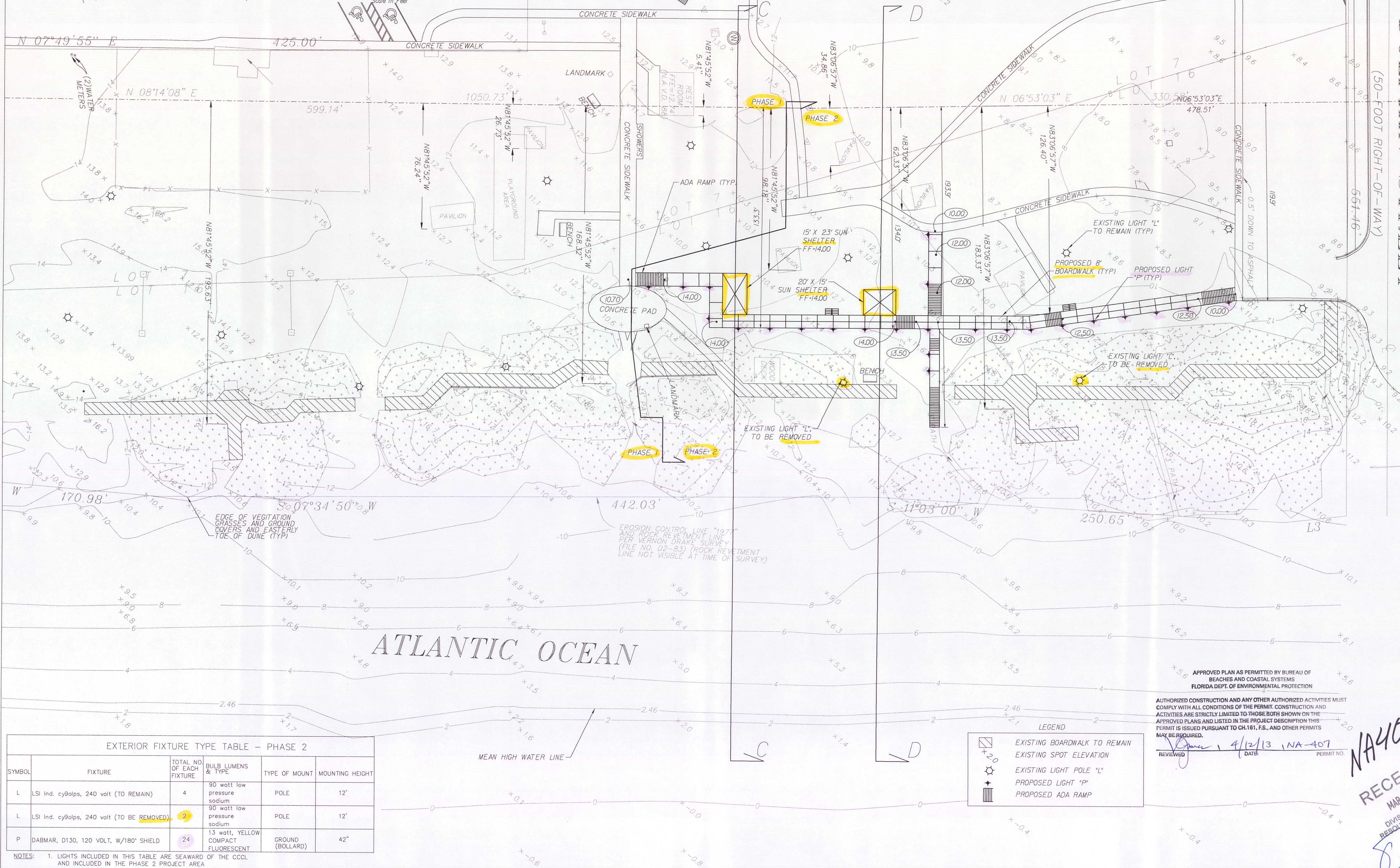
(50-FOOT RIGHT-OF-WAY)

GILLETTE & ASSOCIATES, INC.
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CERTIFICATE OF AUTHORIZATION NO. 9332
20 S. 4th STREET * FERNANDINA BEACH, FL 32034
PHONE: 904-261-8819 * FAX: 904-261-9905

CITY OF FERNANDINA BEACH
MAIN BEACH BOARDWALK & CABANAS
FLETCHER AVENUE
FERNANDINA BEACH, FL
CONTRACTOR: T.B.D.

PHASE 2
LAYOUT
DWG NO. REV
PL-2 D
SCALE
1"=30'
DATE: 4/29/11
JOB NO: COFB_mb
DRW BY: AG
CHK BY: ARG

REV	DATE	ITEM
B	1/23/11	DEVELOPMENT SET - REVISED PER CLIENT
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G	3/6/13	DEVELOPMENT SET - REVISED PER PERMIT CONDITIONS



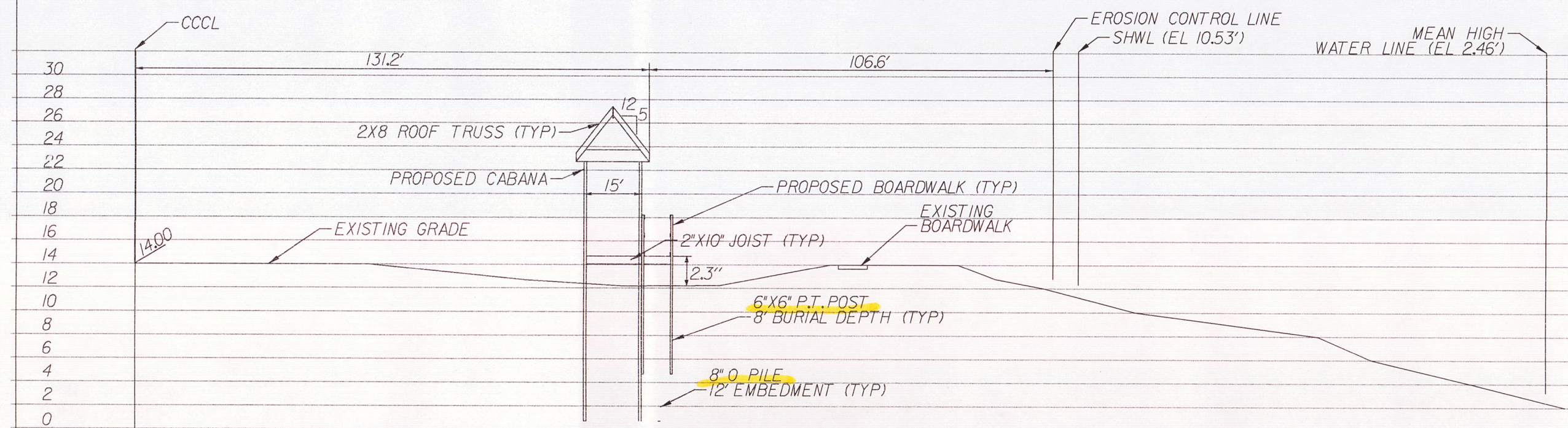
EXTERIOR FIXTURE TYPE TABLE – PHASE 2					
SYMBOL	FIXTURE	TOTAL NO OF EACH FIXTURE	BULB LUMENS & TYPE	TYPE OF MOUNT	MOUNTING HEIGHT
L	LSI Ind. cy90lps, 240 volt (TO REMAIN)	4	90 watt low pressure sodium	POLE	12'
L	LSI Ind. cy90lps, 240 volt (TO BE REMOVED)	2	90 watt low pressure sodium	POLE	12'
P	DABMAR, D130, 120 VOLT, W/180° SHIELD	24	13 watt, YELLOW COMPACT FLUORESCENT	GROUND (BOLLARD)	42"

NOTES: 1. LIGHTS INCLUDED IN THIS TABLE ARE SEAWARD OF THE CCLL AND INCLUDED IN THE PHASE 2 PROJECT AREA
2. ALL EXISTING LIGHTING SHOWN SHALL BE EQUIPPED WITH BLACK BAFFLES ON THE NORTH SOUTH AND EAST SIDE OF FIXTURES

LEGEND	
	EXISTING BOARDWALK TO REMAIN
	EXISTING SPOT ELEVATION
	EXISTING LIGHT POLE 'L'
	PROPOSED LIGHT 'P'
	PROPOSED ADA RAMP

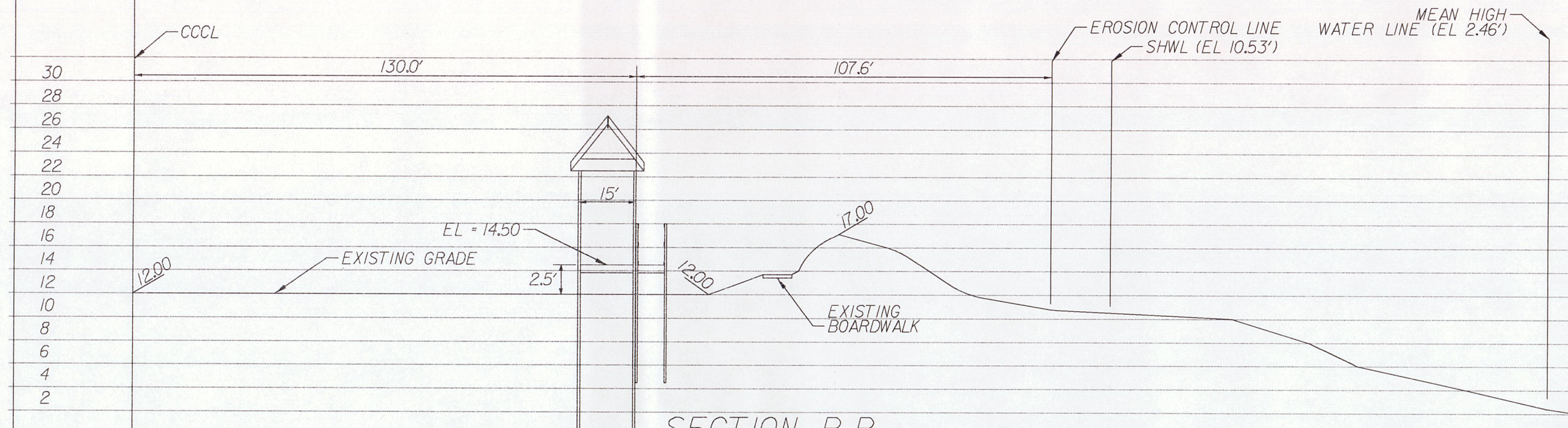
APPROVED PLAN AS PERMITTED BY BUREAU OF BEACHES AND COASTAL SYSTEMS
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REVIEWED: [Signature] DATE: 4/12/13 NA-407 PERMIT NO: [Blank]
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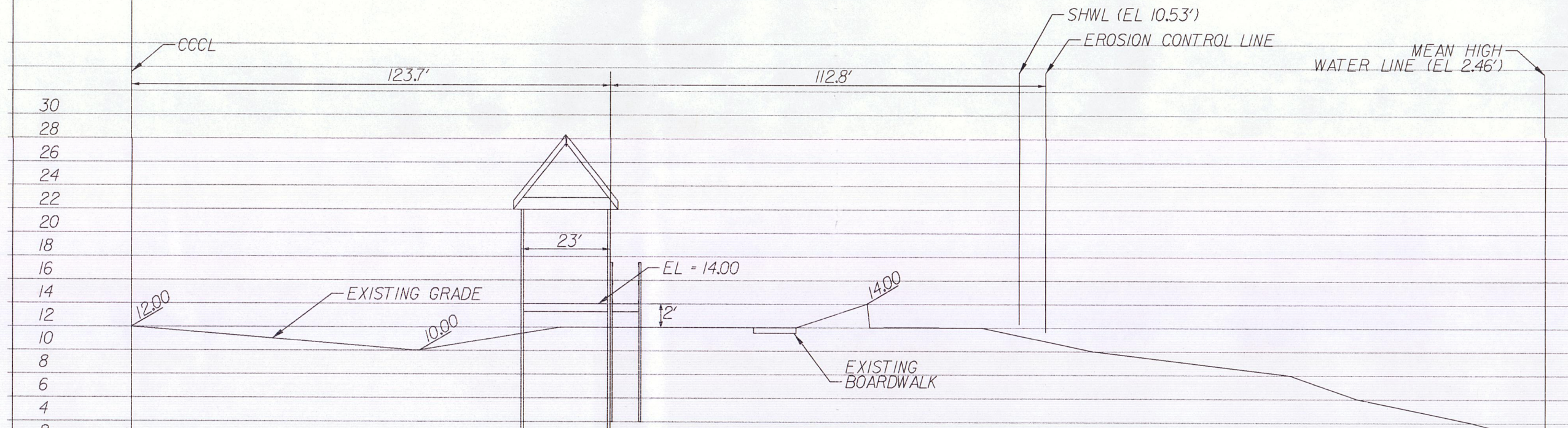
SECTION A-A

HORIZ. SCALE - 1"=30'
VERT. SCALE - 1"=10'



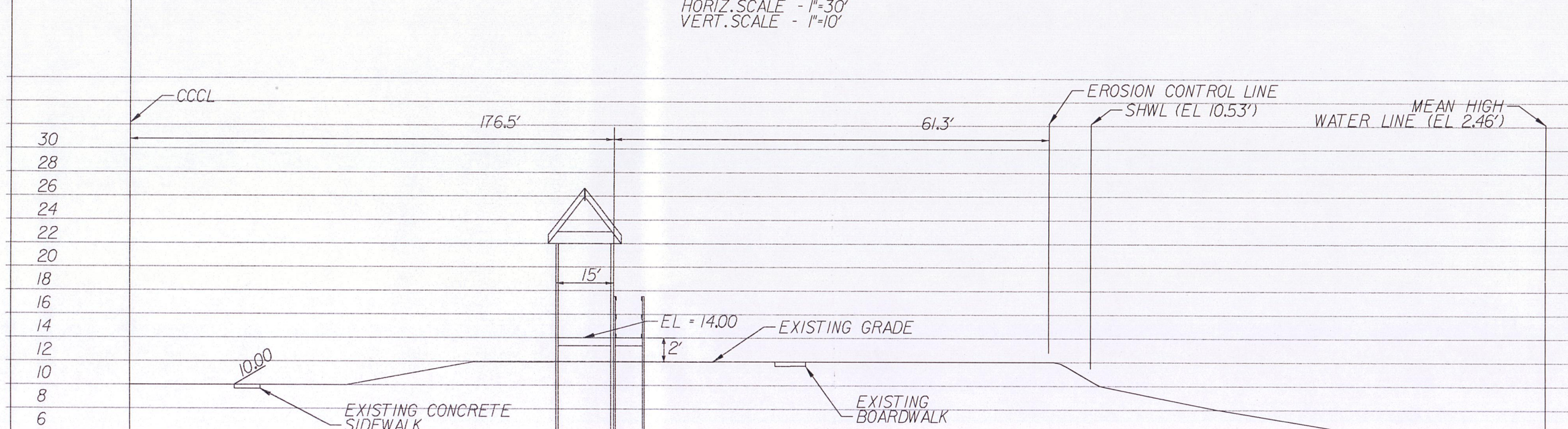
SECTION B-B

HORIZ. SCALE - 1"=30'
VERT. SCALE - 1"=10'



SECTION C-C

HORIZ. SCALE - 1"=30'
VERT. SCALE - 1"=10'



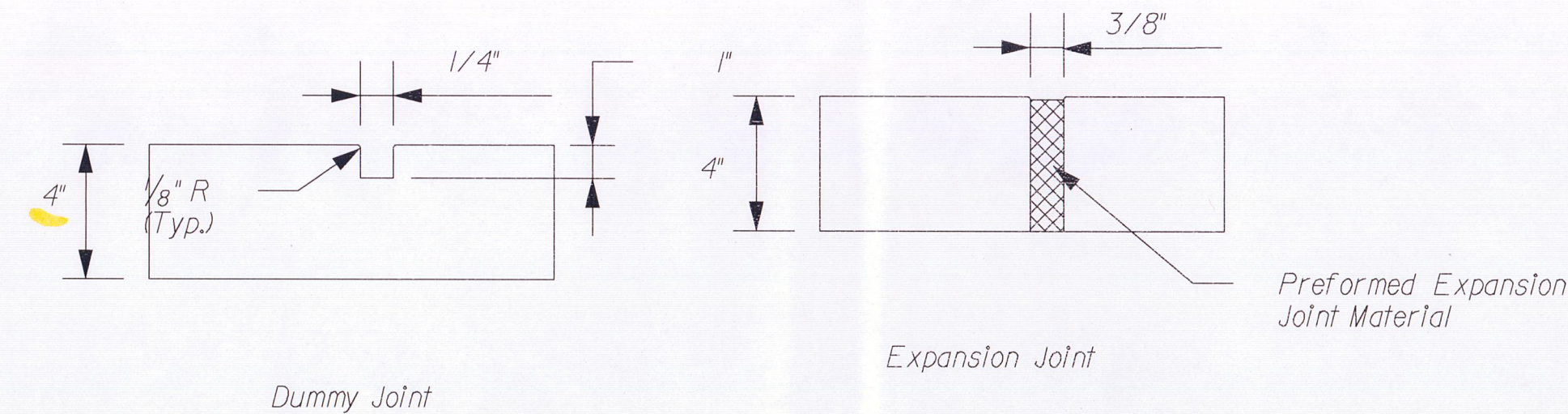
SECTION D-D

HORIZ. SCALE - 1"=30'
VERT. SCALE - 1"=10'

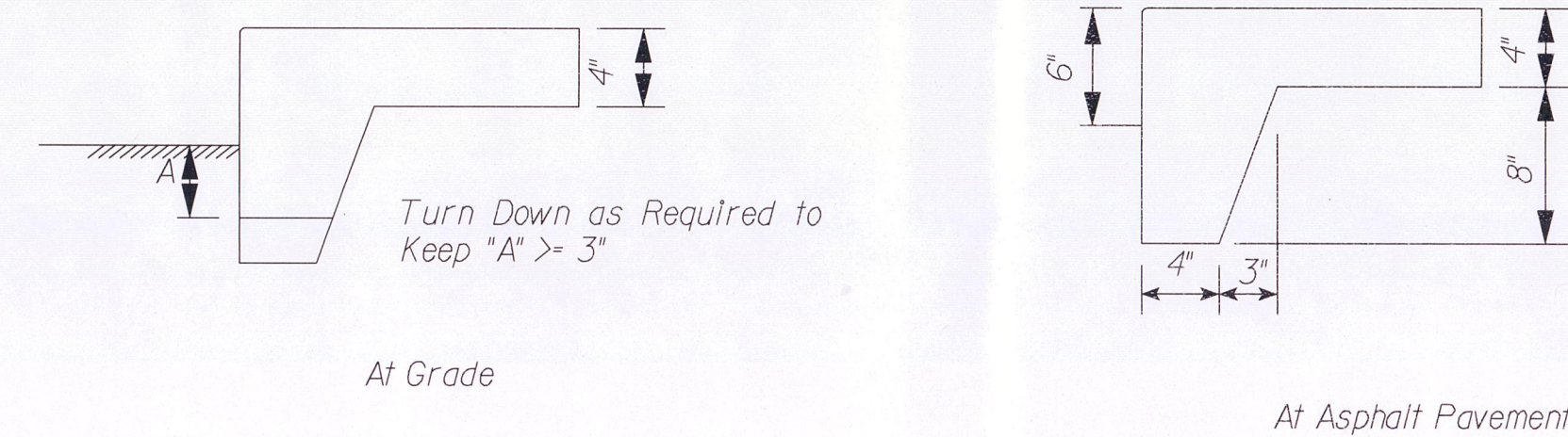
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REVIEWED: *[Signature]* DATE: 4/12/13 PERMIT NO. WA-107



SIDEWALK JOINT DETAILS



SIDEWALK TURNDOWN DETAILS

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GILLETTE & ASSOCIATES, INC.
CIVIL, ENVIRONMENTAL, MECHANICAL, & STRUCTURAL ENGINEERING
CERTIFICATE OF AUTHORIZATION NO. 9432
20 S. 4th STREET * FERNANDINA BEACH, FL 32034
PHONE: 904-261-8819 * FAX: 904-261-9905

CITY OF FERNANDINA BEACH
MAIN BEACH BOARDWALK & CABANAS
FLETCHER AVENUE
FERNANDINA BEACH, FL
CONTRACTOR: T.B.D.

CROSS SECTIONS
DWG. NO. CS-1
REV. D
SCALE AS NOTED
DATE: 4/29/11
NO: COFB_mb
DRW BY: AG
CHK BY: ARG

GENERAL STRUCTURAL NOTES

1. Codes: Florida Building Code 2004, American Institute of Timber Construction and American Welding Society.
2. Live Loads:

Deck Floor

125 psf

Cart:

1300 lbs

People

400 lbs

Tools

350 lbs

Dynamic Factor

2
3. Wind Loads:
- Speed

120 mph
- Exposure

C
- Enclosure

Open
4. Piles: 8" Timber Pile:
- Pile Dia.: 8" with 9" Butt

Pile Tip Bearing Depth: 12'-0" below grade

Pile Length: Approx. 20 feet

Allowable Compression: 3 Tons required

Per Report of Geotechnical Exploration Porject No. JAX2-06-177, by Wolf Technologies, Inc. 3047-4 St. Johns Bluff Road, South, Jacksonville, Florida 32246 (904-997-1400)
5. Soil Compaction:
- Soil under slab on grade and foundation shall be compacted to 95% modified proctor max. dry density (ASTM D-1557).
6. Materials:
- Anchor Bolts:

ASTM A307 or A36 Hot Dip Galvanized
- Welds:

AWS E70 or E60
- Nails:

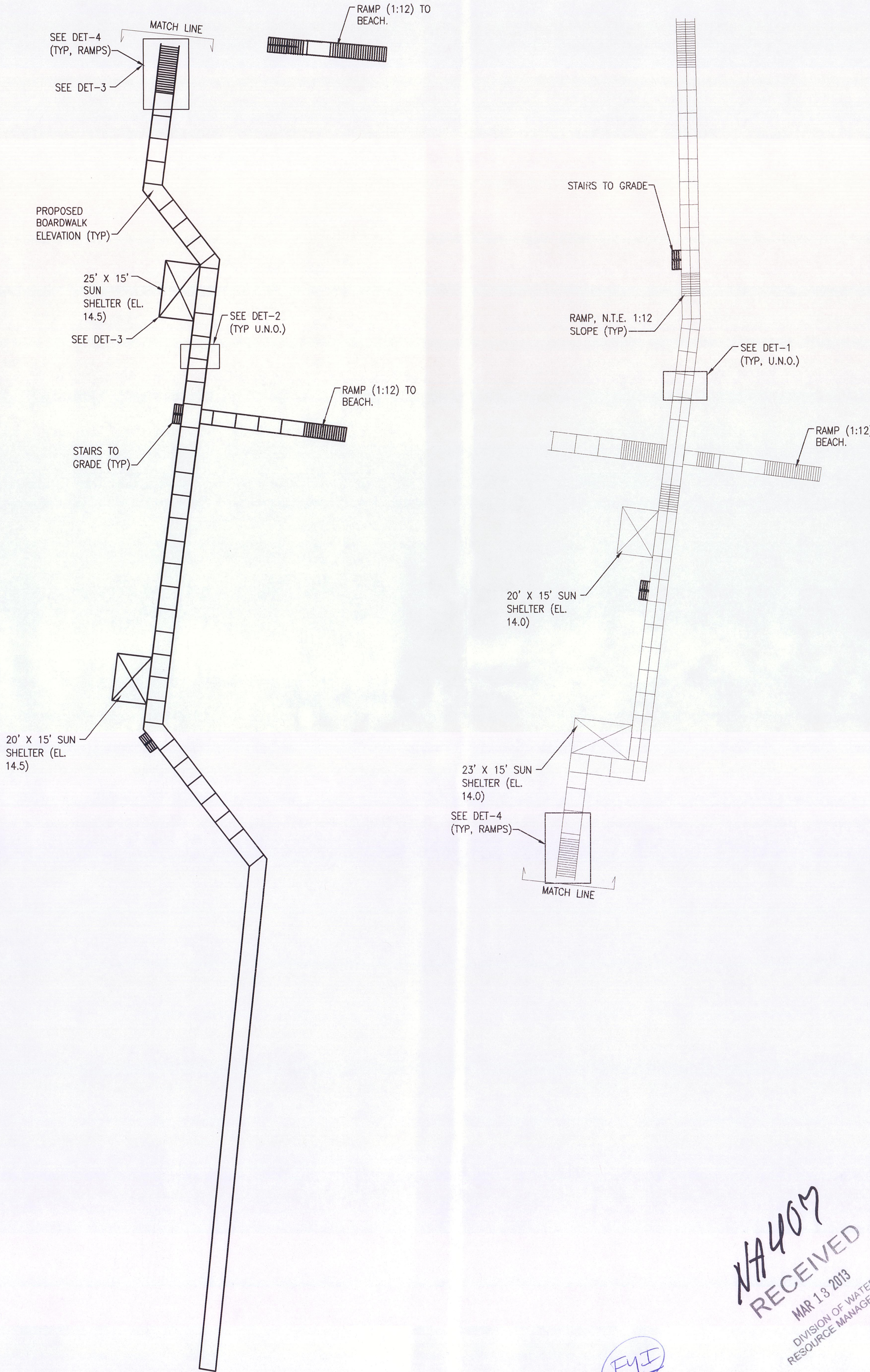
Hot Dip Galvanized
- Wood Beams/Decks:

SYP #2 (0.4 Treatment)
- Piles:

Southern Pine or Douglas Fir (2.5 Saltwater Treatment)
7. Timber:
- All wood framing shall be fabricated and installed as per AITC and National Design Specification for Wood Construction.

All wood member exposed to weather shall be pressure treated.

The number and size of nails connecting to wood members shall not be less than those specified in FBC 2004 Table 2304.9.1 Fastening Schedule.

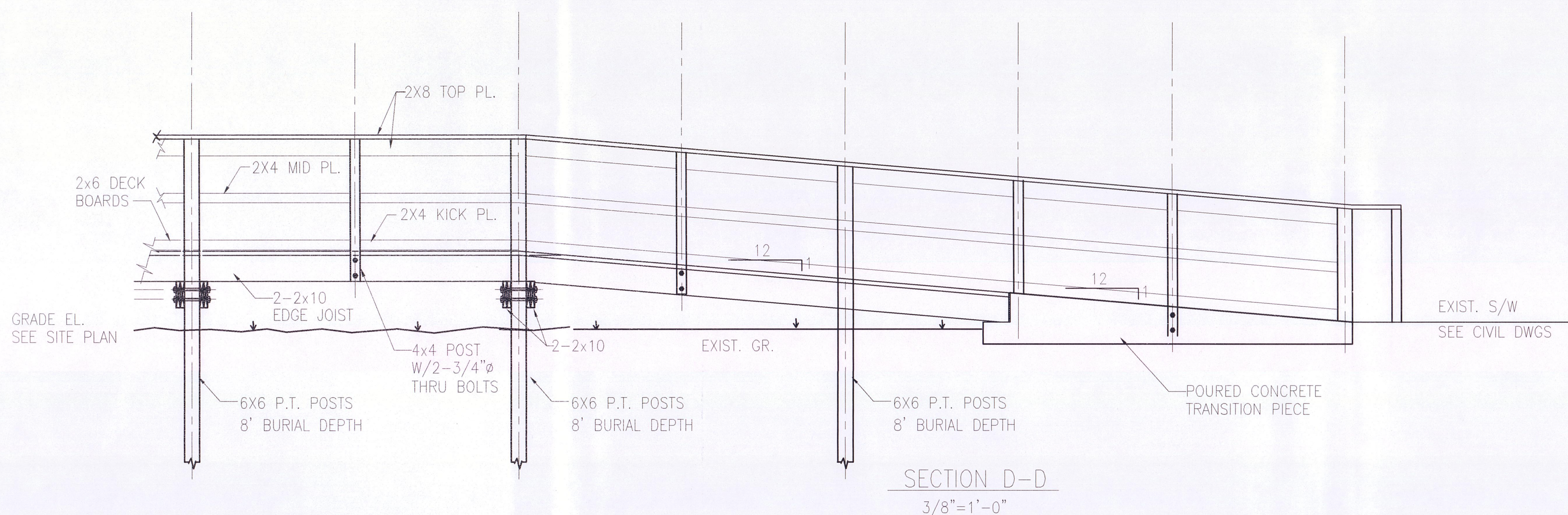
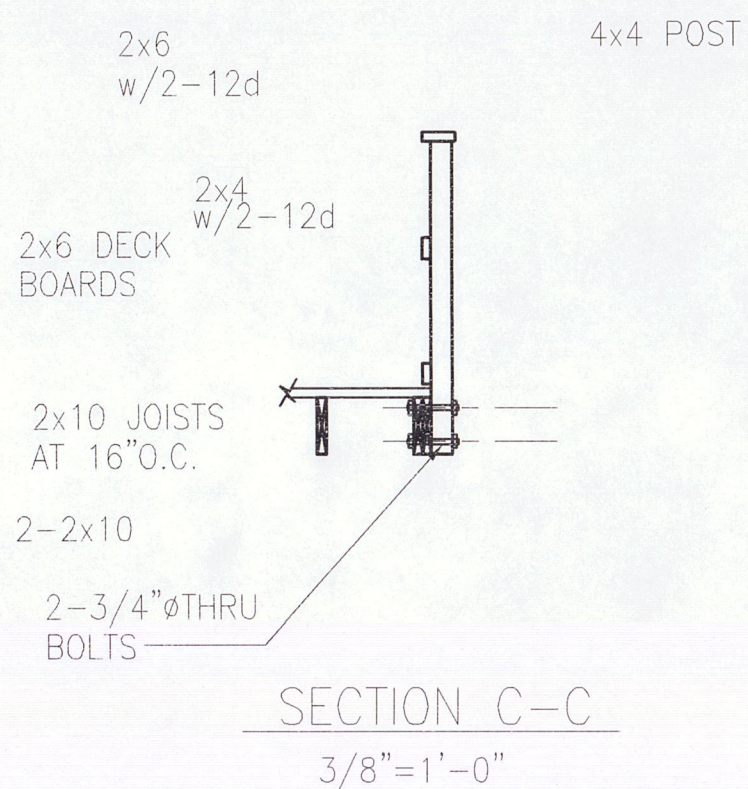
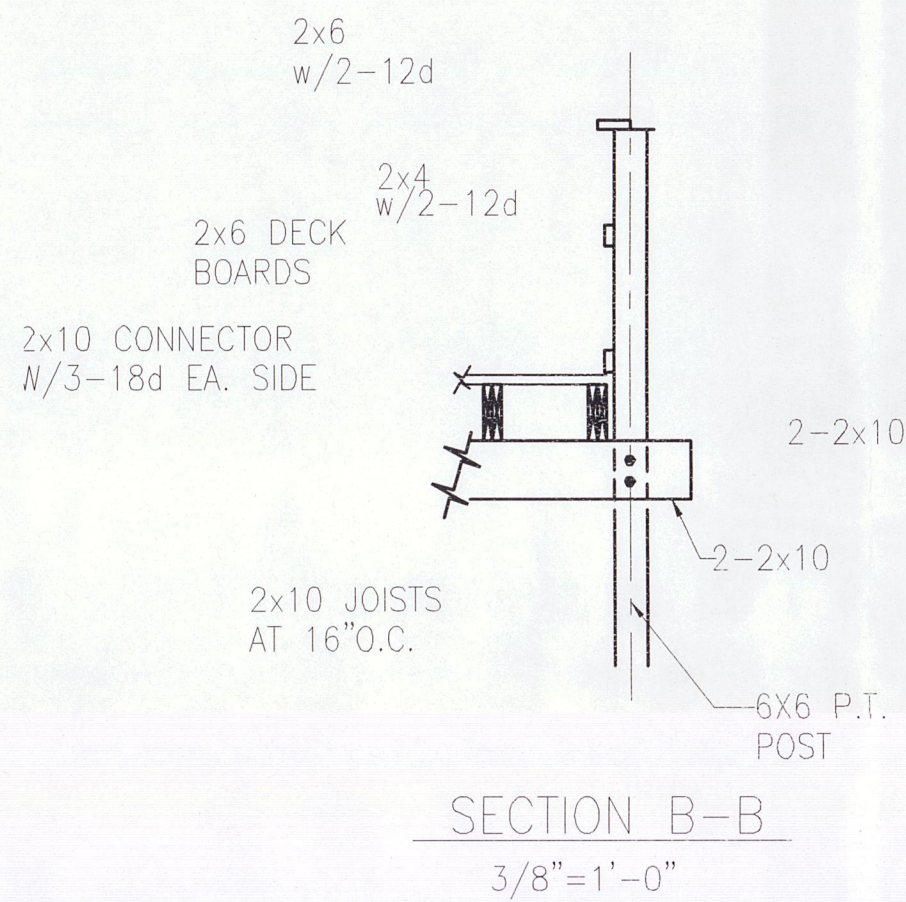
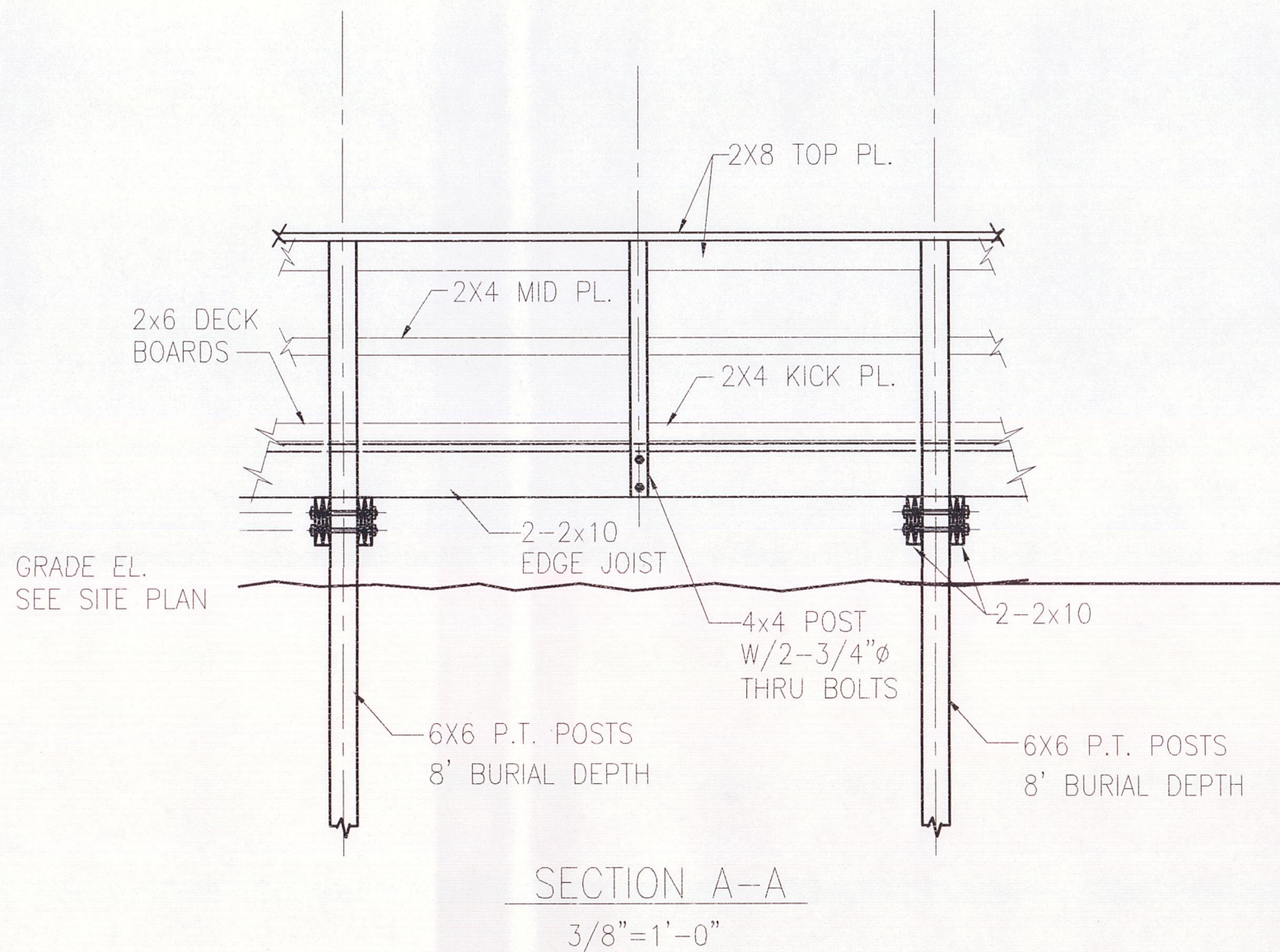
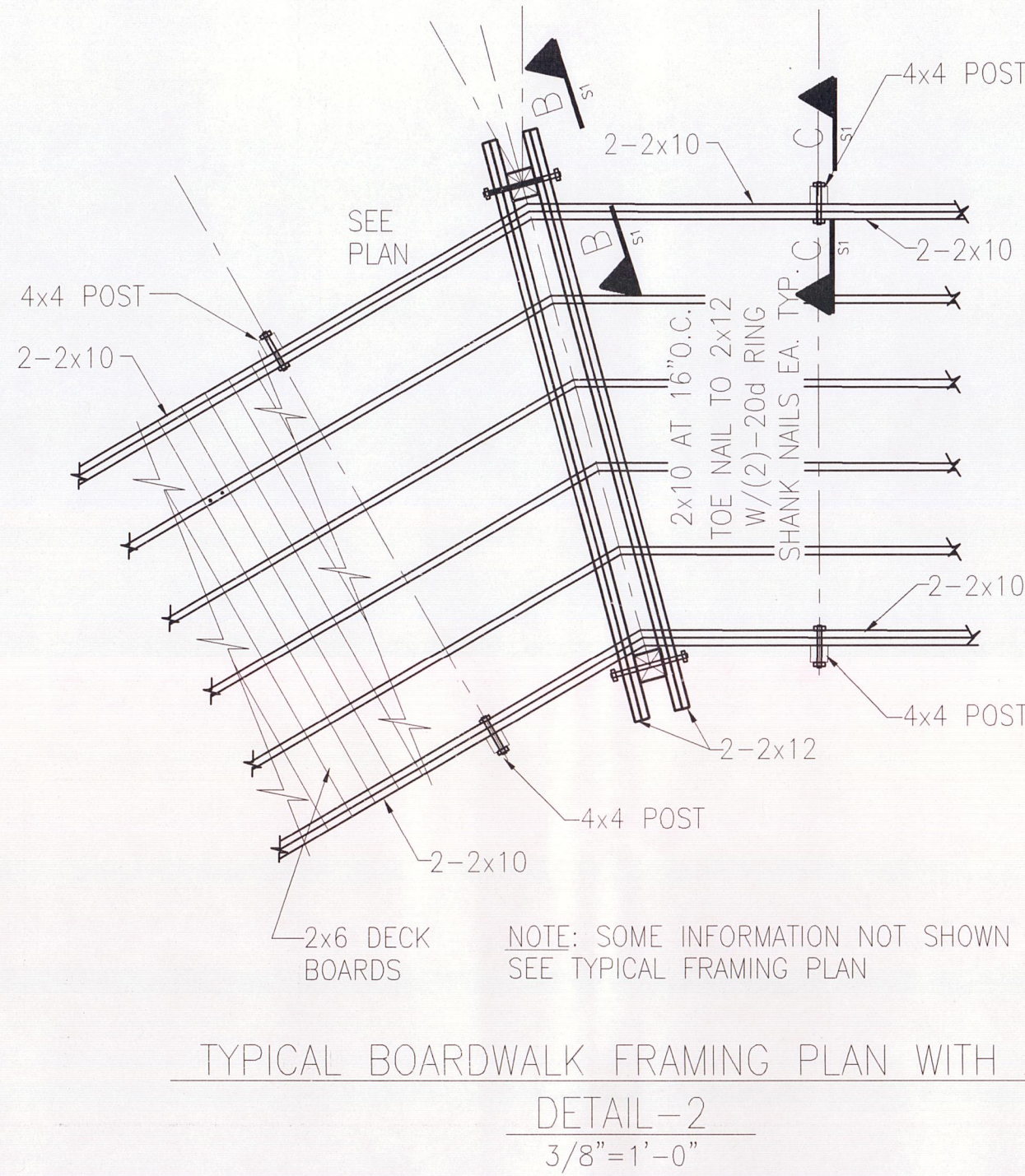
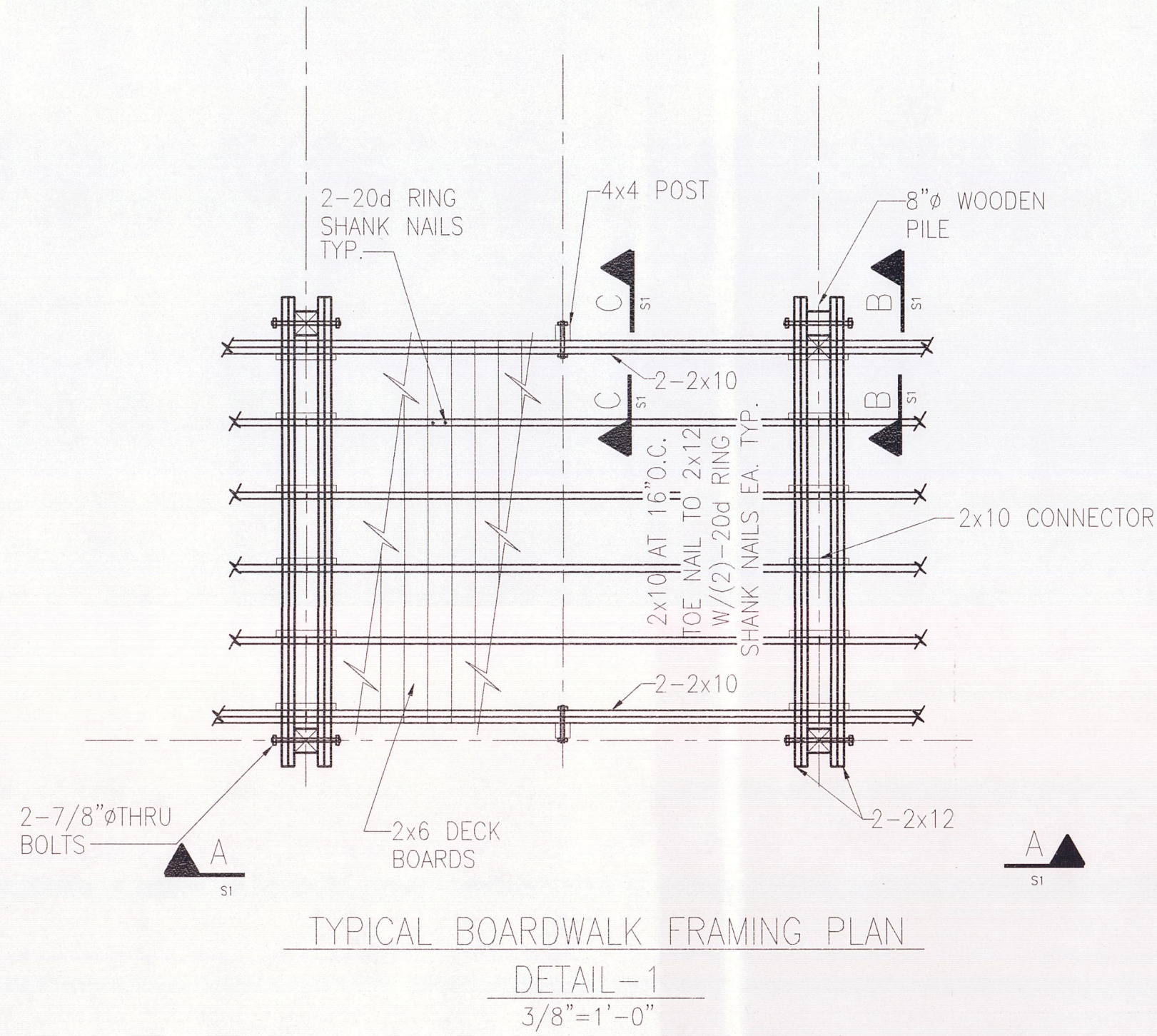


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GILLETTE & ASSOCIATES, INC.
CIVIL, ENVIRONMENTAL, MECHANICAL, & STRUCTURAL ENGINEERING
CERTIFICATE OF AUTHORIZATION NO. 8332
20 S. 4th STREET * FERNANDINA BEACH, FL 32034
PHONE: 904-261-8819 * FAX: 904-261-9905

CITY OF FERNANDINA BEACH
MAIN BEACH BOARDWALK & CABANAS
FLETCHER AVENUE
FERNANDINA BEACH, FL
CONTRACTOR: T.B.D.

OVERALL PLAN AND NOTES	
DWG NO.	REV
S1	D
SCALE	
AS NOTED	
DATE:	
4/29/11	
JOB NO:	
COFB_mb	
DRW BY:	
AG	
CHK BY:	
ARG	



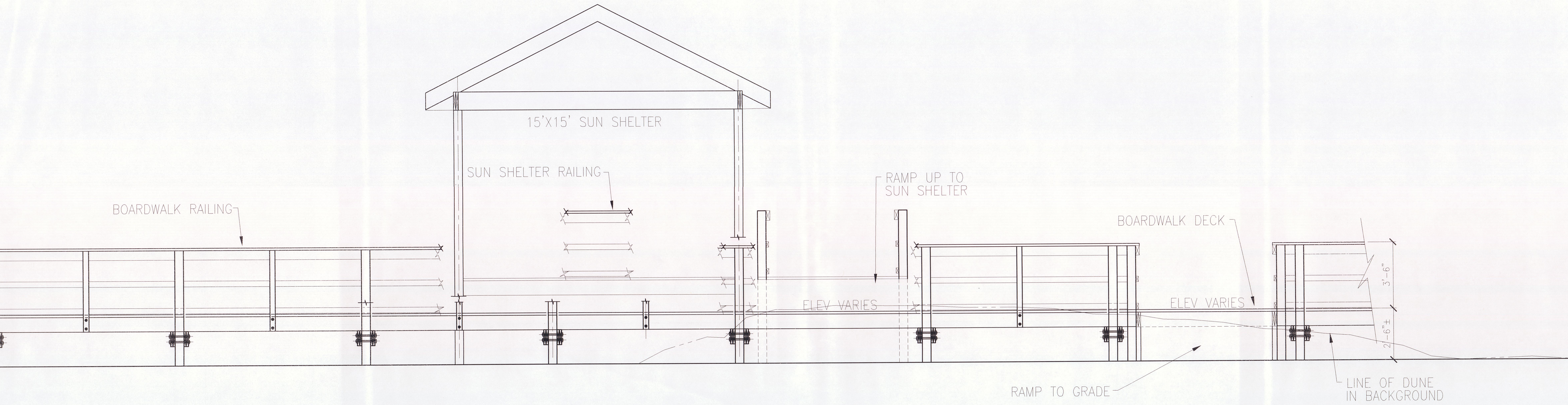
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RESOURCE MANAGEMENT
F4I
4/29/11

ITEM		DATE	REV	REVISION
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DEVELOPMENT SET - MOVED BOARDWALK POSITION EAST		4/29/11	D	
DEVELOPMENT SET - MOVED BOARDWALK POSITION WEST		10/12/12	E	
DEVELOPMENT SET - REVISED LIGHTING PLAN AND DEMO		2/26/13	F	
DEVELOPMENT SET - REVISED PER PERMIT CONDITIONS		3/29/13	E	

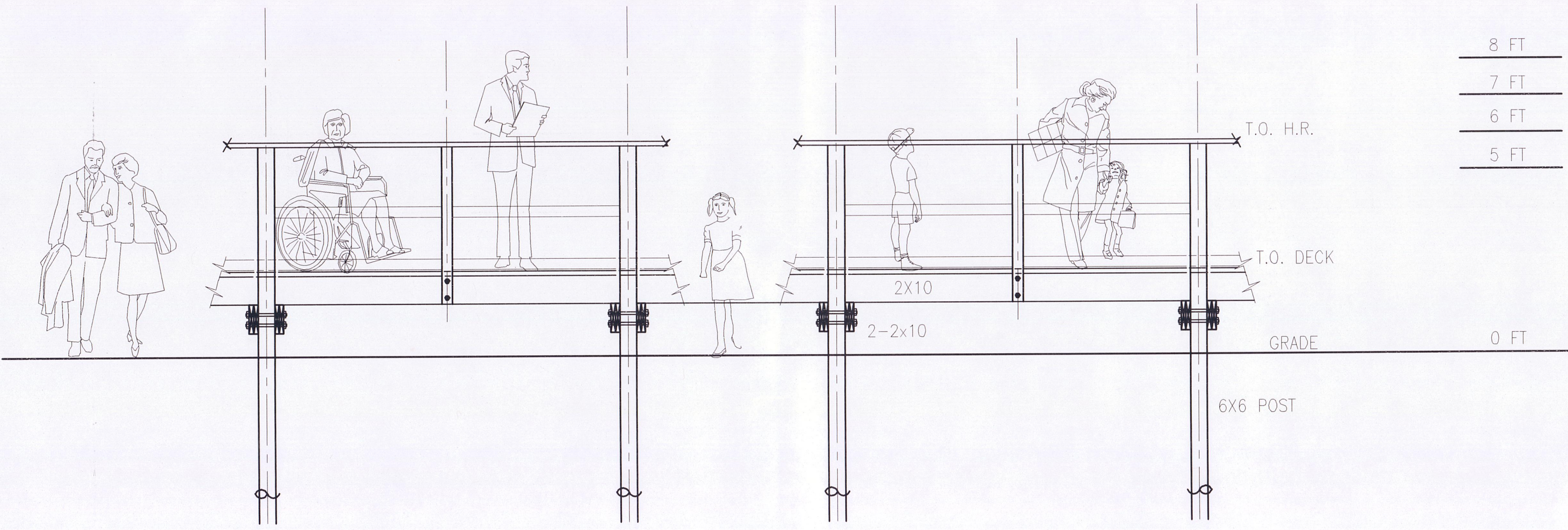
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CERTIFICATE OF AUTHORIZATION NO. 0332

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MAIN BEACH BOARDWALK & CABANAS
FLETCHER AVENUE
FERNANDINA BEACH, FL
CONTRACTOR: T.B.D.



ELEVATION PERSPECTIVE – LOOKING EAST
3/8"=1'-0"



ELEVATION PERSPECTIVE – LOOKING EAST OR WEST
3/8"=1'-0"

ELEVATIONS ARE FROM 1' DATUM AND ARE FOR R.I.

F.Y.I.

NA407
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DIVISION OF WATER
RESOURCE MANAGEMENT
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3-11-13

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ELEVATIONS
DWG NO. S4
REV D
SCALE AS NOTED
DATE: 4/29/11
JOB NO: COFB_mb
DRW BY: AG
CHK BY: ARG