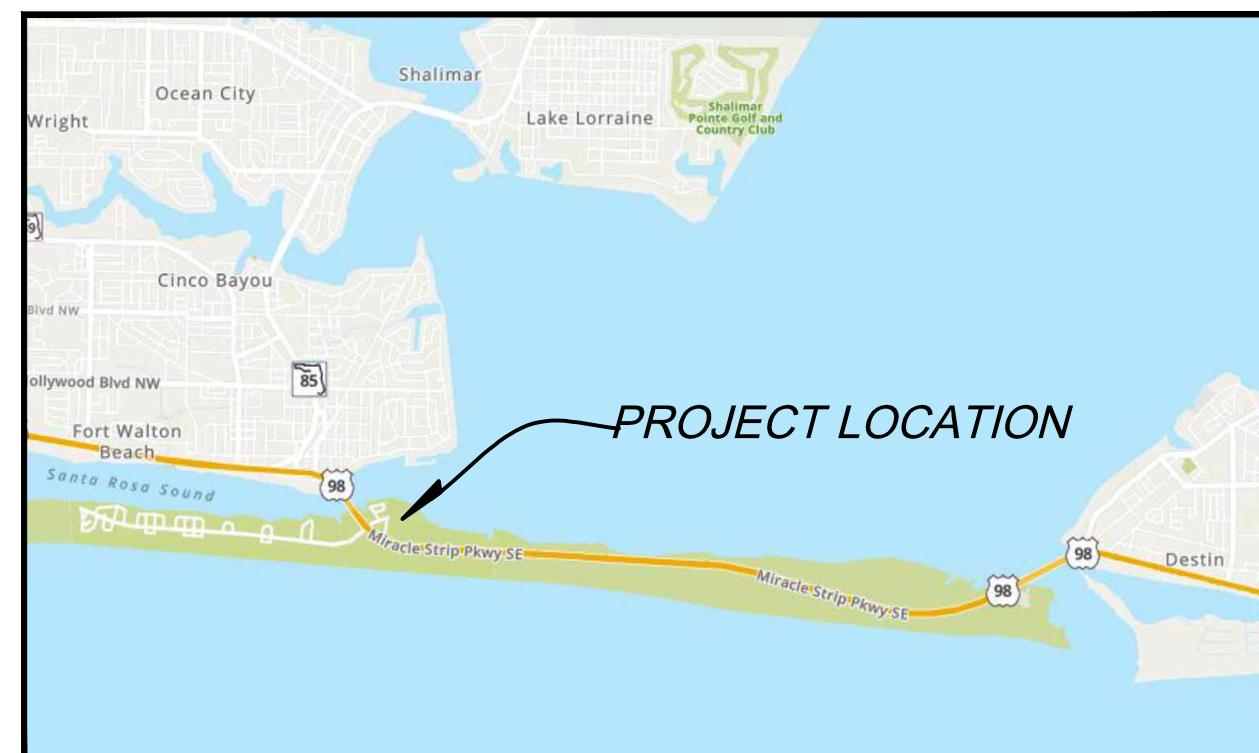


CONSTRUCTION PLANS FOR VETERANS PARK EAST LOBE EXPANSION OKALOOSA COUNTY, FLORIDA MARCH 2026

BOARD OF COUNTY COMMISSIONERS OKALOOSA COUNTY, FLORIDA



LOCATION MAP
SCALE: 1" = 10,000'

MOTT MACDONALD PROJECT NO.
502101659-011

OKALOOSA COUNTY
COMMISSIONERS

- CHAIRMAN PAUL MIXON -DISTRICT 1
- CAROLYN KETCHEL -DISTRICT 2
- SHERRI COX -DISTRICT 3
- TREY GOODWIN -DISTRICT 4
- DREW PALMER -DISTRICT 5

ISSUED FOR BID



Mott MacDonald Florida, LLC.
220 West Garden Street
Suite 700
Pensacola, FL 32502
United States of America
T +1 (850) 484 6011
www.mottmac.com/americas

Architects Engineers Surveyors
AA - C0000035 EB - 0000155 LB - 0006783

DRAWING INDEX		
B/O	SHEET	DESCRIPTION
CIVIL		
1	C-1	COVER SHEET
2	C-2	SIGNATURE SHEET
3	C-3	GENERAL NOTES
4	C-4	GENERAL NOTES
5	C-5	CONSTRUCTION ACCESS PLAN
6	C-6	EXISTING SITE, DEMOLITION & EROSION CONTROL PLAN
7	C-7	PROPOSED SITE & PROJECT CONTROL PLAN
8	C-8	PLAN & PROFILE - PROPOSED WALKWAY
9	C-9	PLAN & PROFILE - PROPOSED WALKWAY
10	C-10	CROSS SECTIONS - PROPOSED WALKWAY
11	C-11	CROSS SECTIONS - PROPOSED WALKWAY
12	C-12	CROSS SECTIONS - PROPOSED WALKWAY
13	C-13	CROSS SECTIONS - PROPOSED WALKWAY
14	C-14	CROSS SECTIONS - PROPOSED WALKWAY
15	C-15	BOARDWALK PILE LOCATION PLAN
16	C-16	DETAILS
17	C-17	EROSION CONTROL DETAILS
ELECTRICAL		
18	E-1	ELECTRICAL LEGEND, ABBREVIATIONS AND NOTES 1
19	E-2	ELECTRICAL LEGEND, ABBREVIATIONS AND NOTES 2
20	E-3	ELECTRICAL ONE-LINE DIAGRAM AND SCHEDULES
21	E-4	ELECTRICAL SITE PLAN
22	E-5	ELECTRICAL DETAILS
LANDSCAPING		
23	L-1	LANDSCAPE PLAN
24	L-2	LANDSCAPE DETAIL SHEET
25	L-3	LANDSCAPE NOTES
26	IR-1	IRRIGATION PLAN
27	IR-2	IRRIGATION DETAIL SHEET
STRUCTURAL		
28	S-001	GENERAL NOTES
29	S-002	STRUCTURAL NOTES
30	S-101	OVERALL PLAN
31	S-102	ENLARGED PLANS
32	S-103	BOARDWALK SECTIONS AND DETAILS
33	S-104	STATUE FOUNDATION DETAILS

Rev	Date	Drawn	Description	Ch'k'd	App'd

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Client
**Okaloosa County
Board of County Commissioners**

Title
Veterans Park East Lobe Expansion

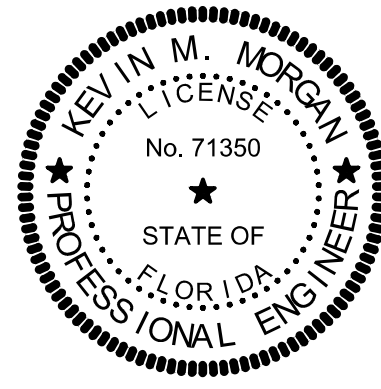
COVER SHEET

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Project Number 502101659-011	B/O 1	Total 33
Designed K. MORGAN	Eng check S. WHITE	
Drawn C. RILEY	Coordination K. MORGAN	
Dwg check 	Approved K. MORGAN	
Scale at ANSI D AS NOTED	Status BID	Rev 0
Drawing Number C-1	Security STD	

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ON THE DATE ADJACENT TO THE SEAL

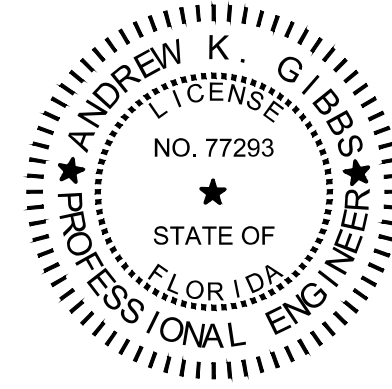
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Mott MacDonald Florida, LLC.
220 West Garden Street
Pensacola, FL 32502

CERTIFICATE OF AUTHORIZATION: EB-0000155
KEVIN M. MORGAN, P.E. NO. 71350

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

- C-1 COVER SHEET
- C-2 SIGNATURE SHEET
- C-3 GENERAL NOTES
- C-4 GENERAL NOTES
- C-5 CONSTRUCTION ACCESS PLAN
- C-6 EXISTING SITE, DEMOLITION & EROSION CONTROL PLAN
- C-7 PROPOSED SITE & PROJECT CONTROL PLAN
- C-8 PLAN & PROFILE - PROPOSED WALKWAY
- C-9 PLAN & PROFILE - PROPOSED WALKWAY
- C-10 CROSS SECTIONS - PROPOSED WALKWAY
- C-11 CROSS SECTIONS - PROPOSED WALKWAY
- C-12 CROSS SECTIONS - PROPOSED WALKWAY
- C-13 CROSS SECTIONS - PROPOSED WALKWAY
- C-14 CROSS SECTIONS - PROPOSED WALKWAY
- C-15 BOARDWALK PILE LOCATION PLAN
- C-16 DETAILS
- C-17 EROSION CONTROL DETAILS



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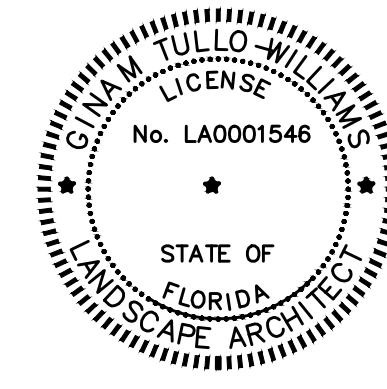
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220 West Garden Street
Pensacola, FL 32502

CERTIFICATE OF AUTHORIZATION: EB-0000155
ANDREW K. GIBBS, P.E. NO. 77293

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

- E-1 ELECTRICAL LEGEND, ABBREVIATIONS AND NOTES 1
- E-2 ELECTRICAL LEGEND, ABBREVIATIONS AND NOTES 2
- E-3 ELECTRICAL ONE-LINE DIAGRAM AND SCHEDULES
- E-4 ELECTRICAL SITE PLAN
- E-5 ELECTRICAL DETAILS



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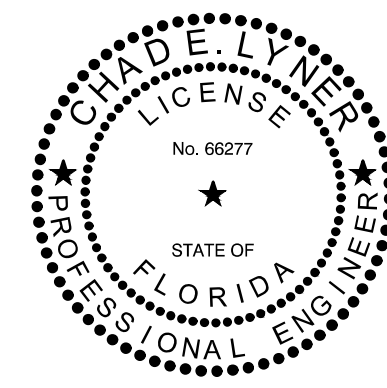
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Tullo Planning Group, LLC
P.O. Box 27601
Panama City Beach, FL 32411

CERTIFICATE OF AUTHORIZATION: LC26000371
GINA M. TULLO-WILLIAMS, P.L.A. NO. 0001546

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

- L-1 LANDSCAPE PLAN
- L-2 LANDSCAPE DETAIL SHEET
- L-3 LANDSCAPE NOTES
- IR-1 IRRIGATION PLAN
- IR-2 IRRIGATION DETAIL SHEET



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220 West Garden Street
Pensacola, FL 32502

CERTIFICATE OF AUTHORIZATION: EB-0000155
CHAD E. LYNER, P.E. NO. 66277

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

- S-001 GENERAL NOTES
- S-002 STRUCTURAL NOTES
- S-101 OVERALL PLAN
- S-102 ENLARGED PLANS
- S-103 BOARDWALK SECTIONS AND DETAILS
- S-104 STATUE FOUNDATION DETAILS

Rev	Date	Drawn	Description	Ch'k'd	App'd

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Architects Engineers Surveyors
AA - C0000035 EB - 0000155 LB - 0006783

Client
Ocala County Board of County Commissioners

Title
Veterans Park East Lobe Expansion

SIGNATURE SHEET

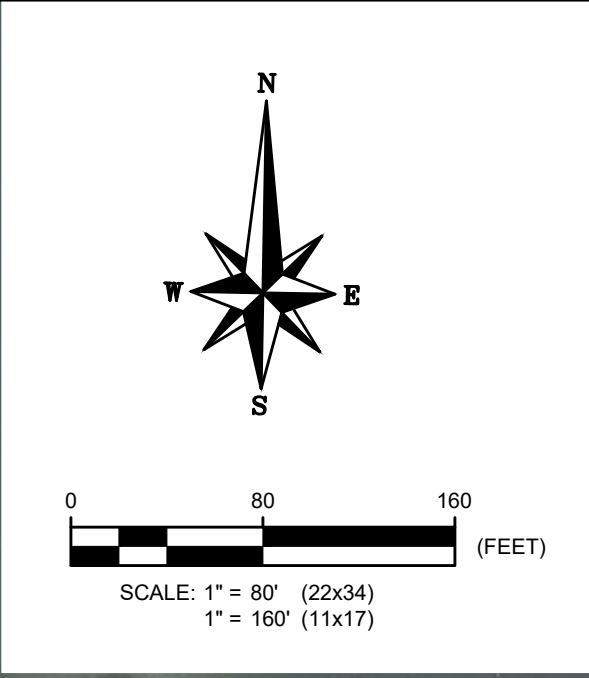
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Project Number	B/O	Total
502101659-011	2	33
Designed	K. MORGAN	Eng check
Drawn	C. RILEY	Coordination
Dwg check		Approved
Scale at ANSI D	Status	Rev
AS NOTED	BID	0
Drawing Number	Security	
	STD	

C-2

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LEGEND:

	PROPOSED ACCESS
	PROPOSED LAYDOWN AREA
	EXISTING WETLANDS
	EXISTING WATER

Rev	Date	Drawn	Description	Ch'k'd	App'd

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Client
**Okaloosa County
 Board of County Commissioners**

Title
Veterans Park East Lobe Expansion

CONSTRUCTION ACCESS PLAN

ISSUED FOR BID

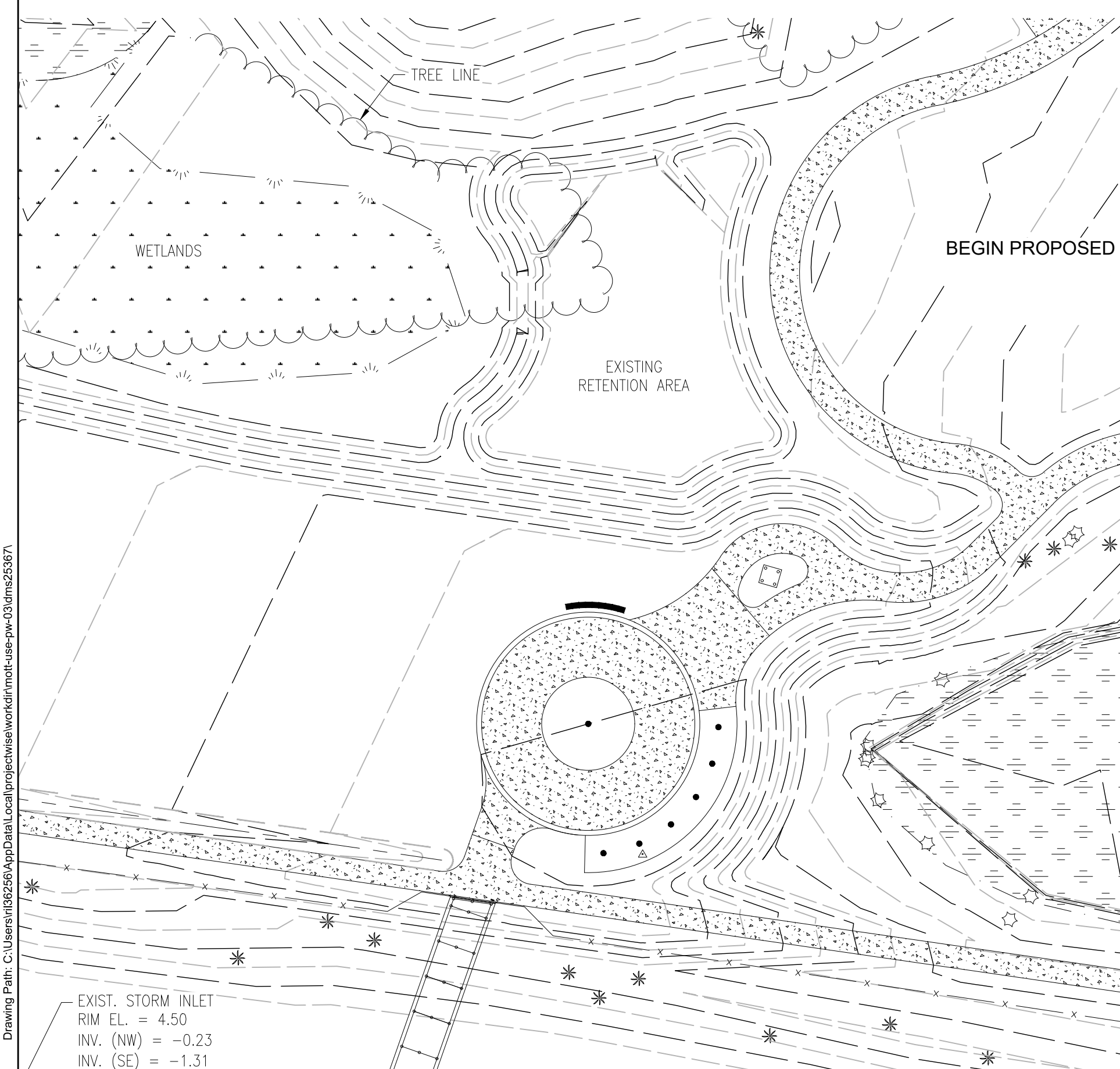
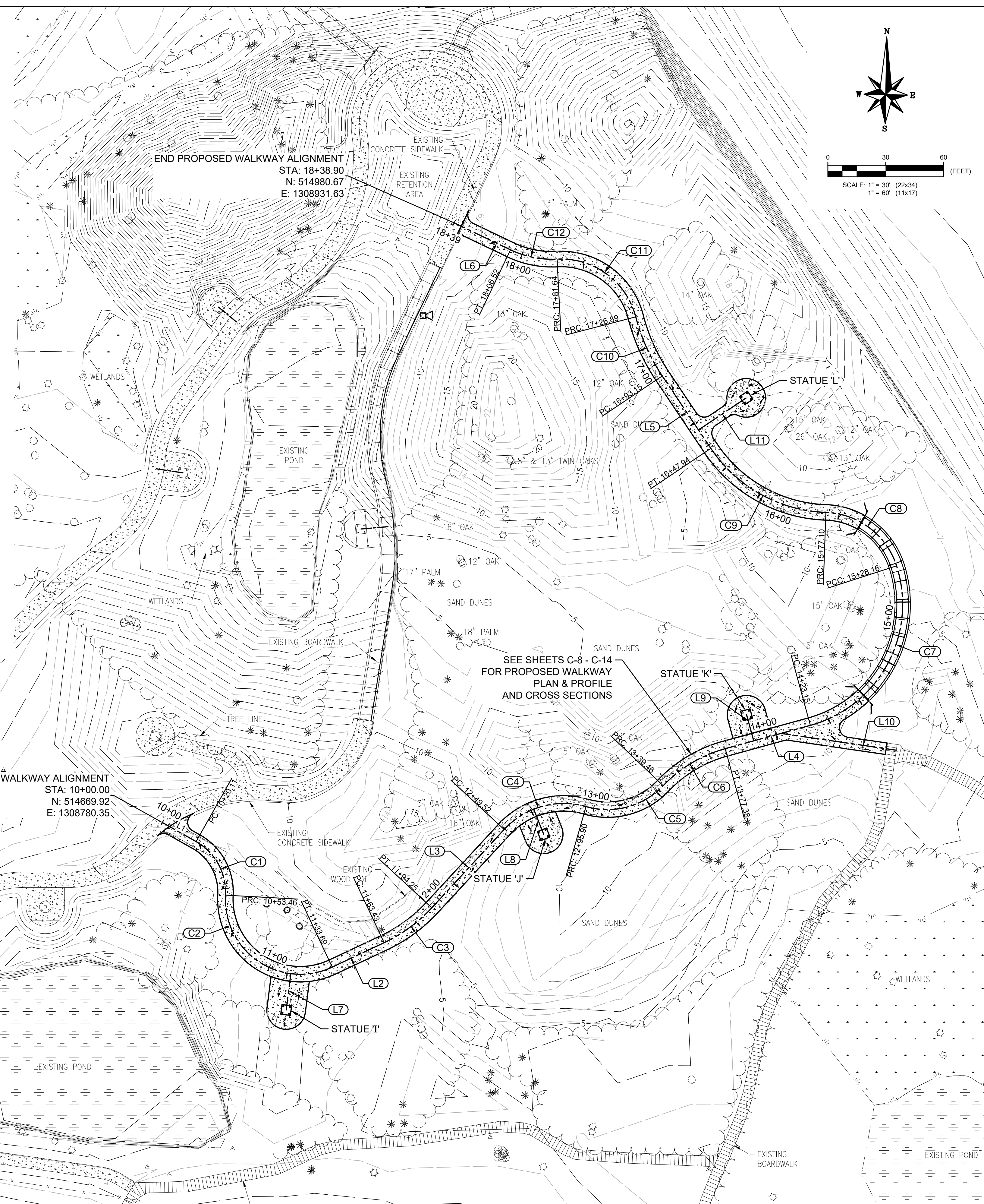
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Project Number	502101659-011	B/O	5	Total	33
Designed	K. MORGAN	Eng check	S. WHITE		
Drawn	C. RILEY	Coordination	K. MORGAN		
Dwg check		Approved	K. MORGAN		
Scale at ANSI D	Status	Rev	0	Security	STD
AS NOTED	BID				
Drawing Number	C-5				

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LINE DATA						
LINE #	LENGTH	DIRECTION	START POINT	END POINT	BEGIN STA	END STA
L1	20.11	S 60° 34' 29" E	(514669.924,1308780.348)	(514660.047,1308797.860)	10+00.00	10+20.11
L2	29.74	N 64° 49' 55" E	(514594.996,1308868.406)	(514607.645,1308895.325)	11+33.69	11+63.43
L3	55.27	N 42° 45' 37" E	(514625.736,1308920.039)	(514666.316,1308957.565)	11+94.25	12+49.52
L4	45.77	N 74° 41' 31" E	(514708.194,1309072.166)	(514720.277,1309116.308)	13+77.38	14+23.15
L5	45.21	N 33° 51' 16" W	(514863.791,1309064.718)	(514901.336,1309039.532)	16+47.94	16+93.15
L6	32.39	N 64° 27' 08" W	(514966.698,1308960.850)	(514980.666,1308931.629)	18+06.52	18+38.90
L7	19.00	S 07° 15' 53" W	(514591.619,1308846.965)	(514572.771,1308844.563)	0+00.00	0+19.00
L8	14.00	S 21° 40' 47" E	(514676.830,1308972.886)	(514663.821,1308978.058)	0+00.00	0+14.00
L9	14.00	N 15° 18' 29" W	(514712.239,1309086.944)	(514725.742,1309083.247)	0+00.00	0+14.00
L10	60.39	S 81° 42' 13" E	(514716.110,1309101.086)	(514707.397,1309160.841)	0+00.00	0+60.39
L11	29.68	N 56° 07' 51" E	(514873.354,1309058.304)	(514889.895,1309082.949)	0+00.00	0+29.68

CURVE DATA							
CURVE NO.	Δ	RADIUS	LENGTH	CHORD DISTANCE	CHORD BEARING	BEGIN STA	END STA
C1	063° 41' 46"	30.00	33.35	31.66	S 28° 43' 36" E	10+20.11	10+53.46
C2	118° 17' 22"	38.86	80.23	66.72	S 56° 01' 24" E	10+53.46	11+33.69
C3	022° 04' 18"	80.00	30.82	30.63	N 53° 47' 46" E	11+63.43	11+94.25
C4	063° 16' 43"	42.00	46.39	44.06	N 74° 23' 59" E	12+49.52	12+95.90
C5	062° 23' 09"	40.00	43.55	41.43	N 74° 50' 46" E	12+95.90	13+39.46
C6	031° 02' 20"	70.00	37.92	37.46	N 59° 10' 21" E	13+39.46	13+77.38
C7	092° 34' 07"	65.00	105.02	93.96	N 28° 24' 28" E	14+23.15	15+28.16
C8	070° 05' 58"	40.00	48.94	45.94	N 52° 55' 35" W	15+28.16	15+77.10
C9	054° 07' 18"	75.00	70.85	68.24	N 60° 54' 55" W	15+77.10	16+47.94
C10	019° 19' 41"	100.00	33.73	33.57	N 24° 11' 25" W	16+93.15	17+26.89
C11	078° 25' 46"	40.00	54.75	50.58	N 53° 44' 28" W	17+26.89	17+81.64
C12	028° 30' 12"	50.00	24.87	24.62	N 78° 42' 14" W	17+81.64	18+06.52



Rev	Date	Drawn	Description	Ch'k'd	App'd

M M
MOTT MACDONALD
 Architects Engineers Surveyors
 AA - C0000035 EB - 0000155 LB - 0006783

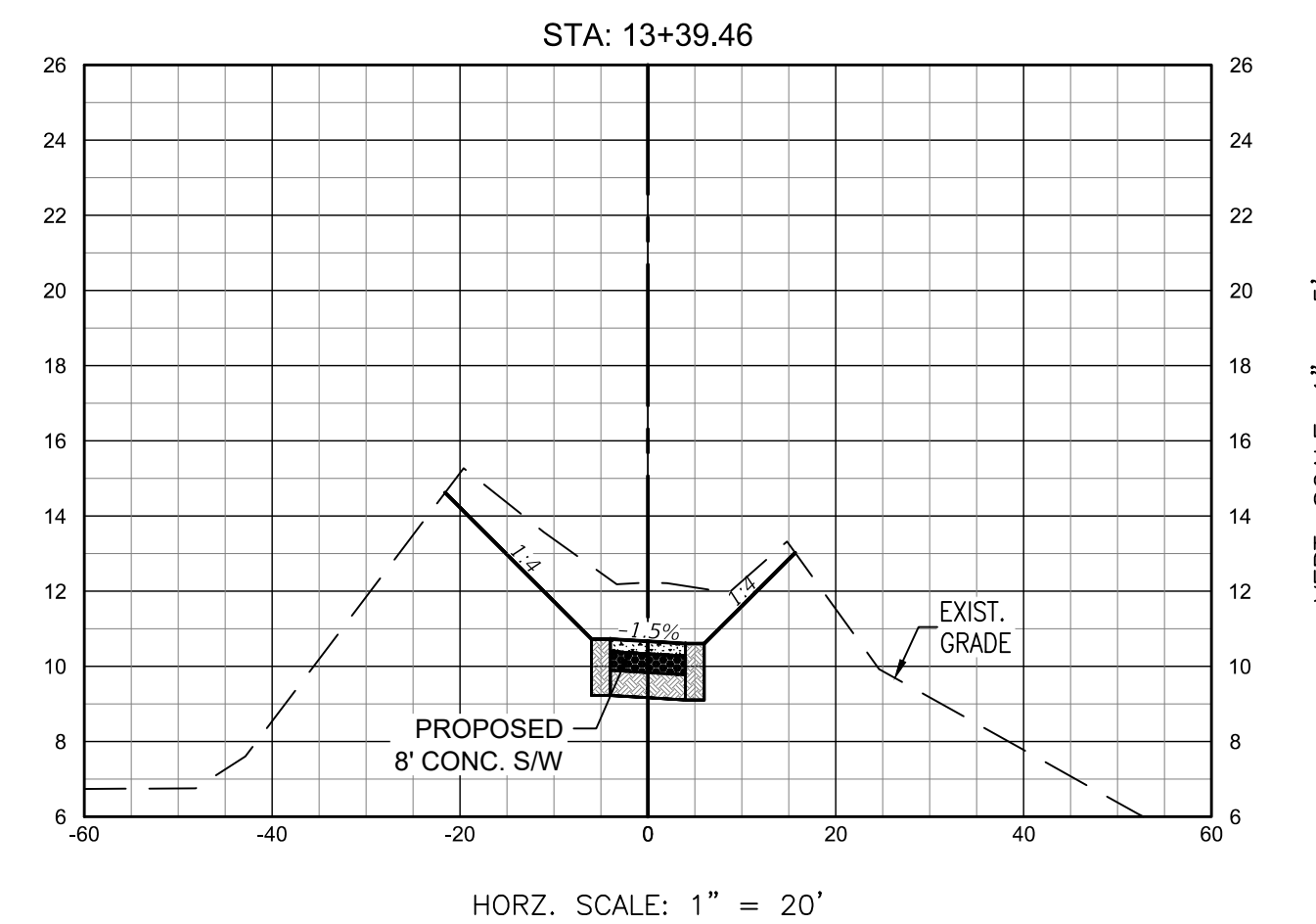
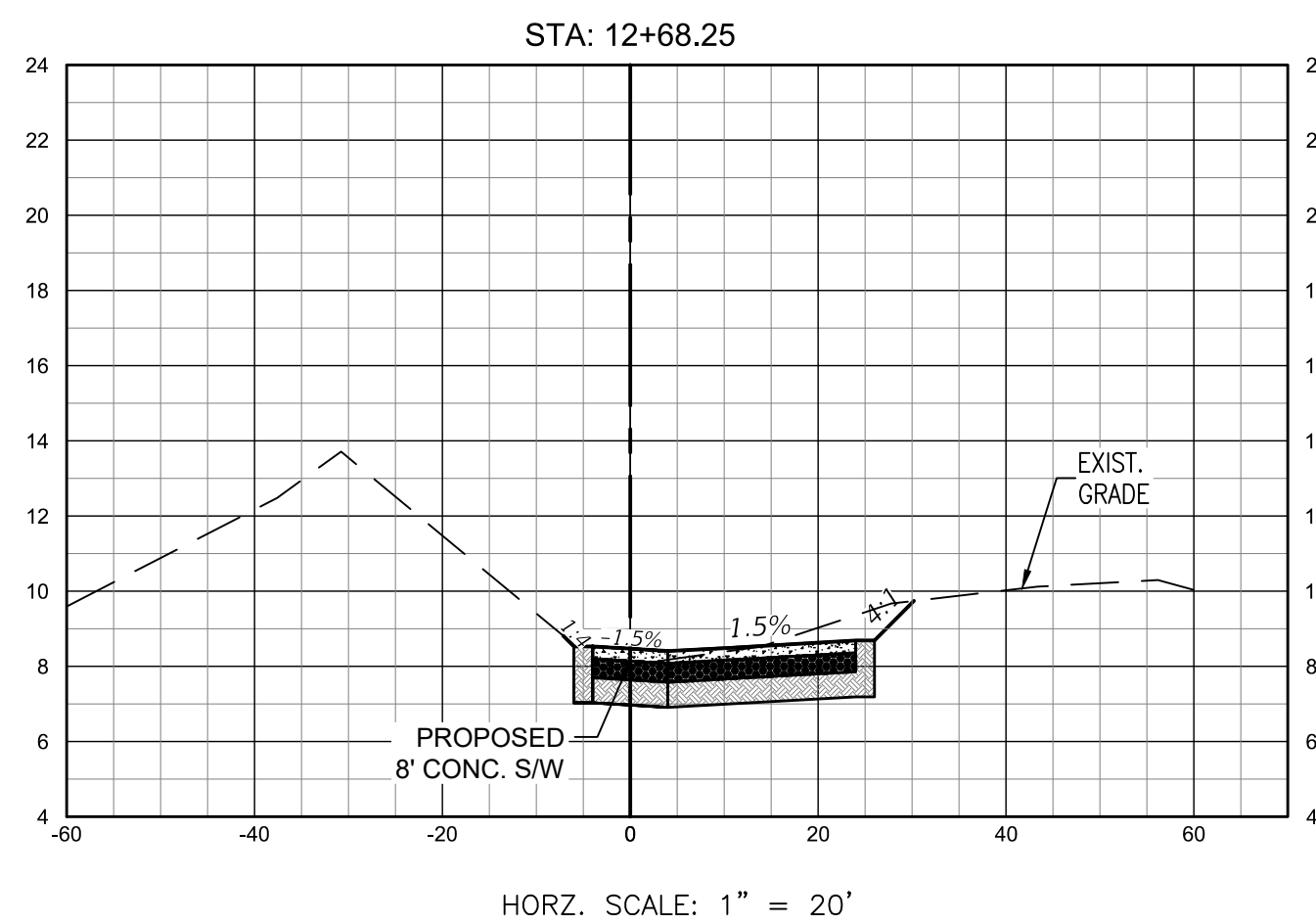
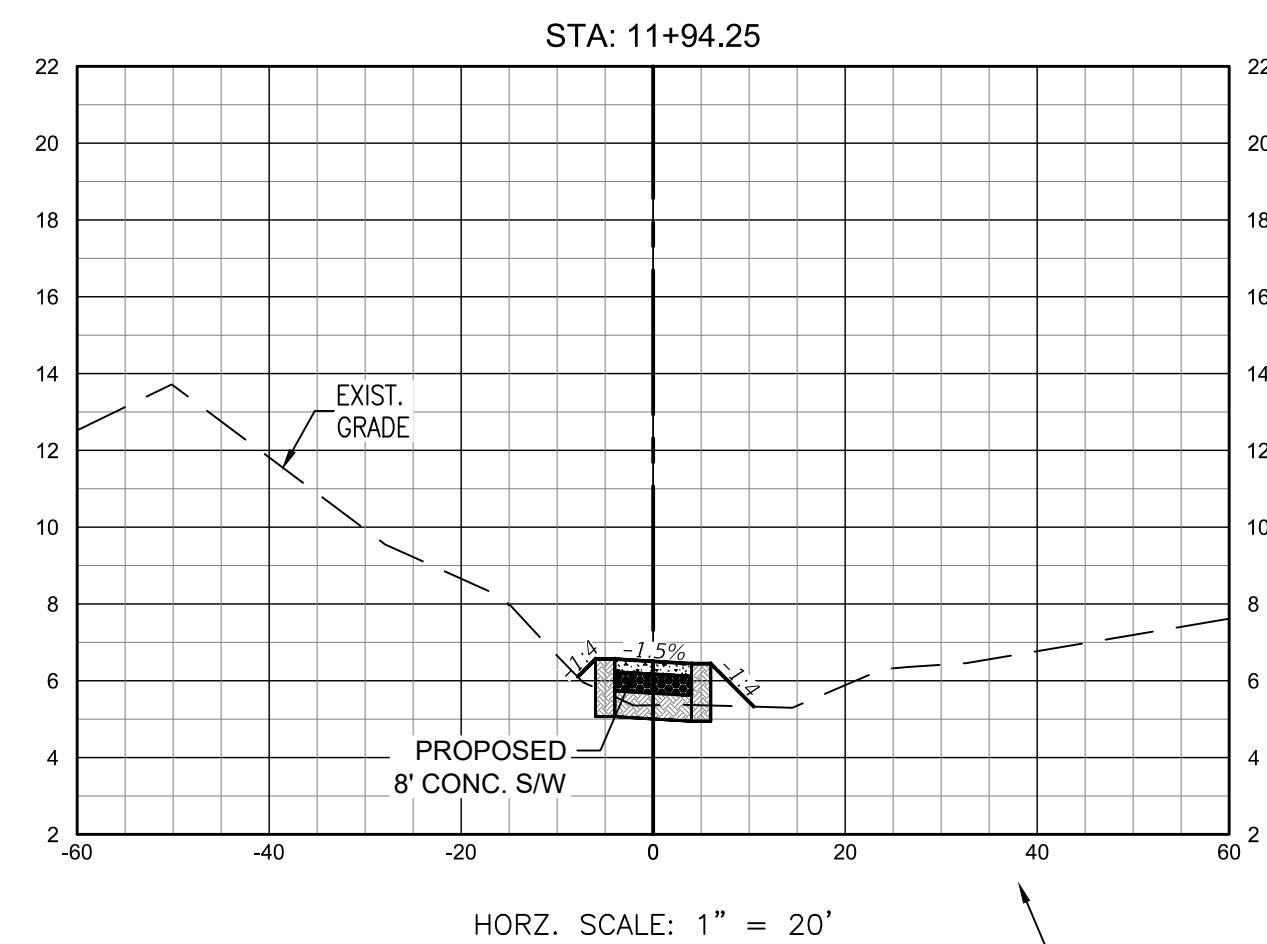
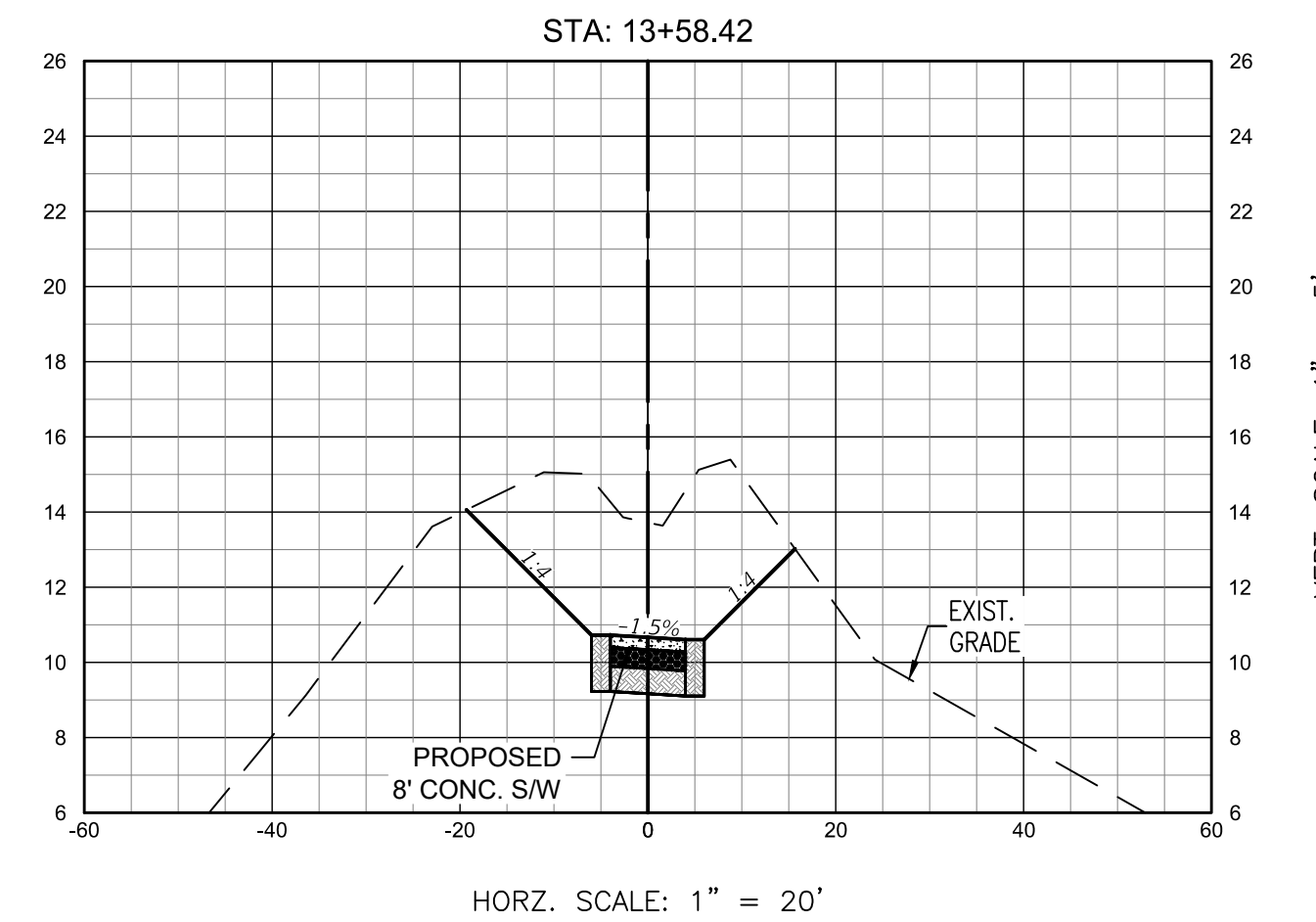
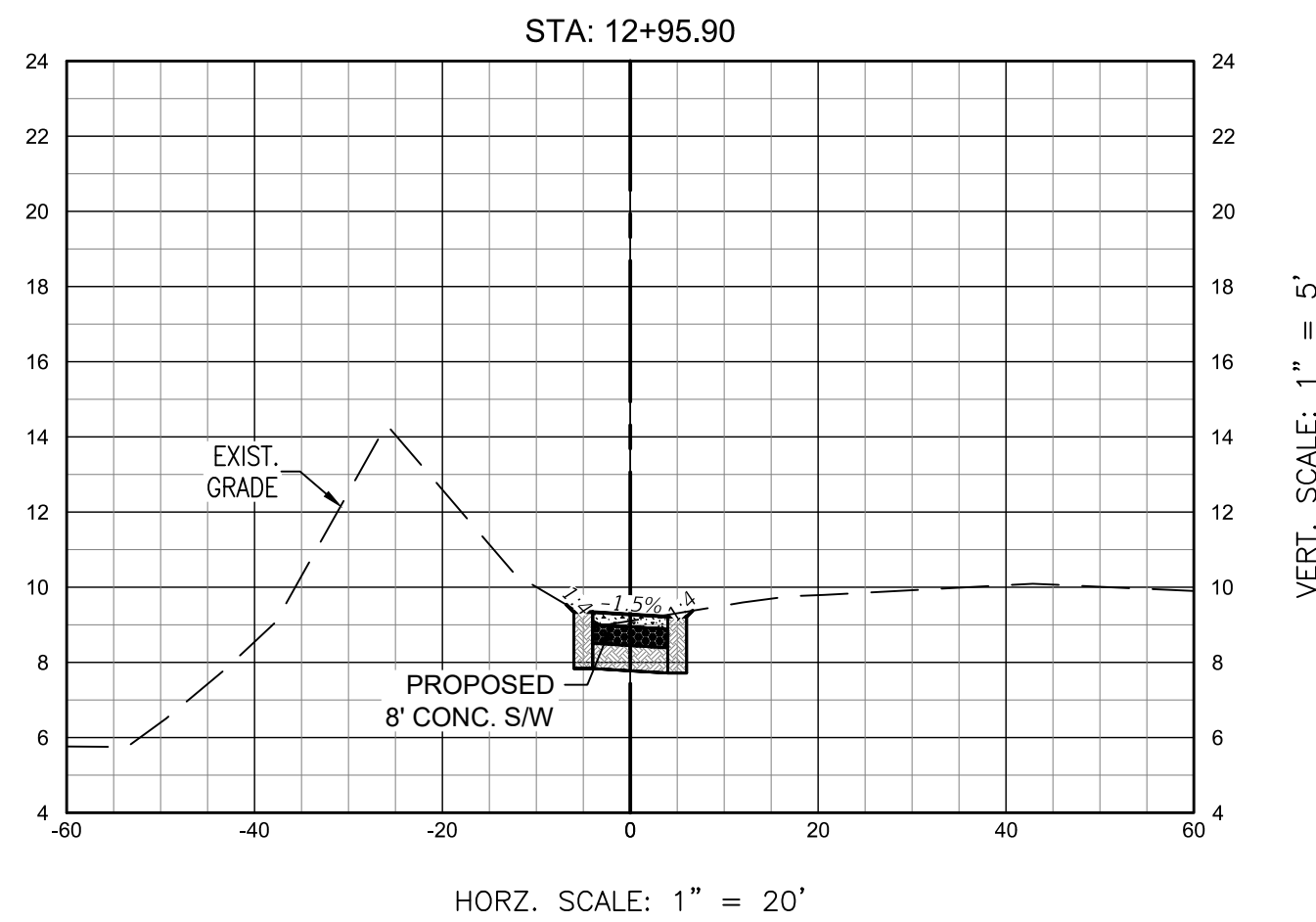
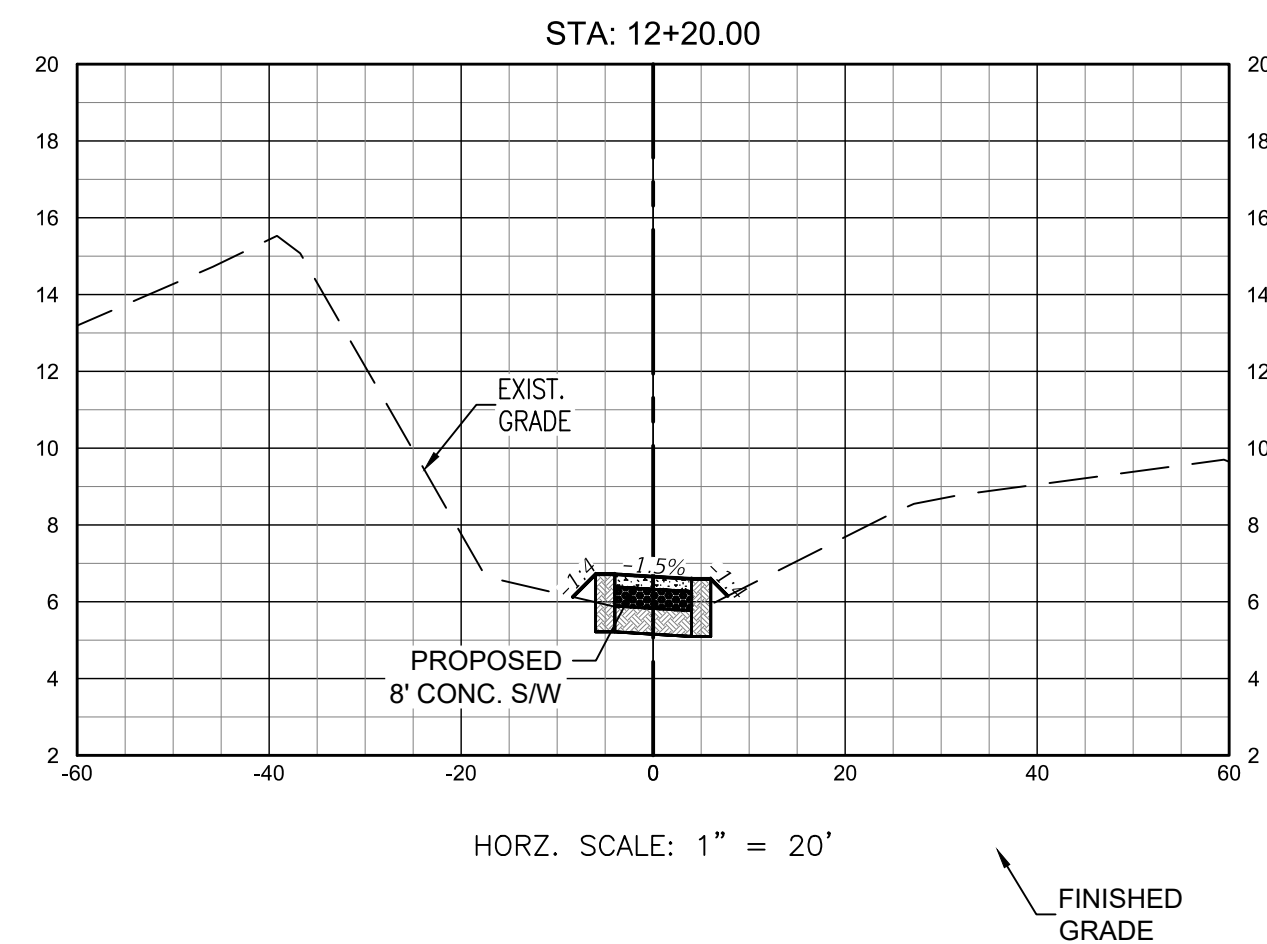
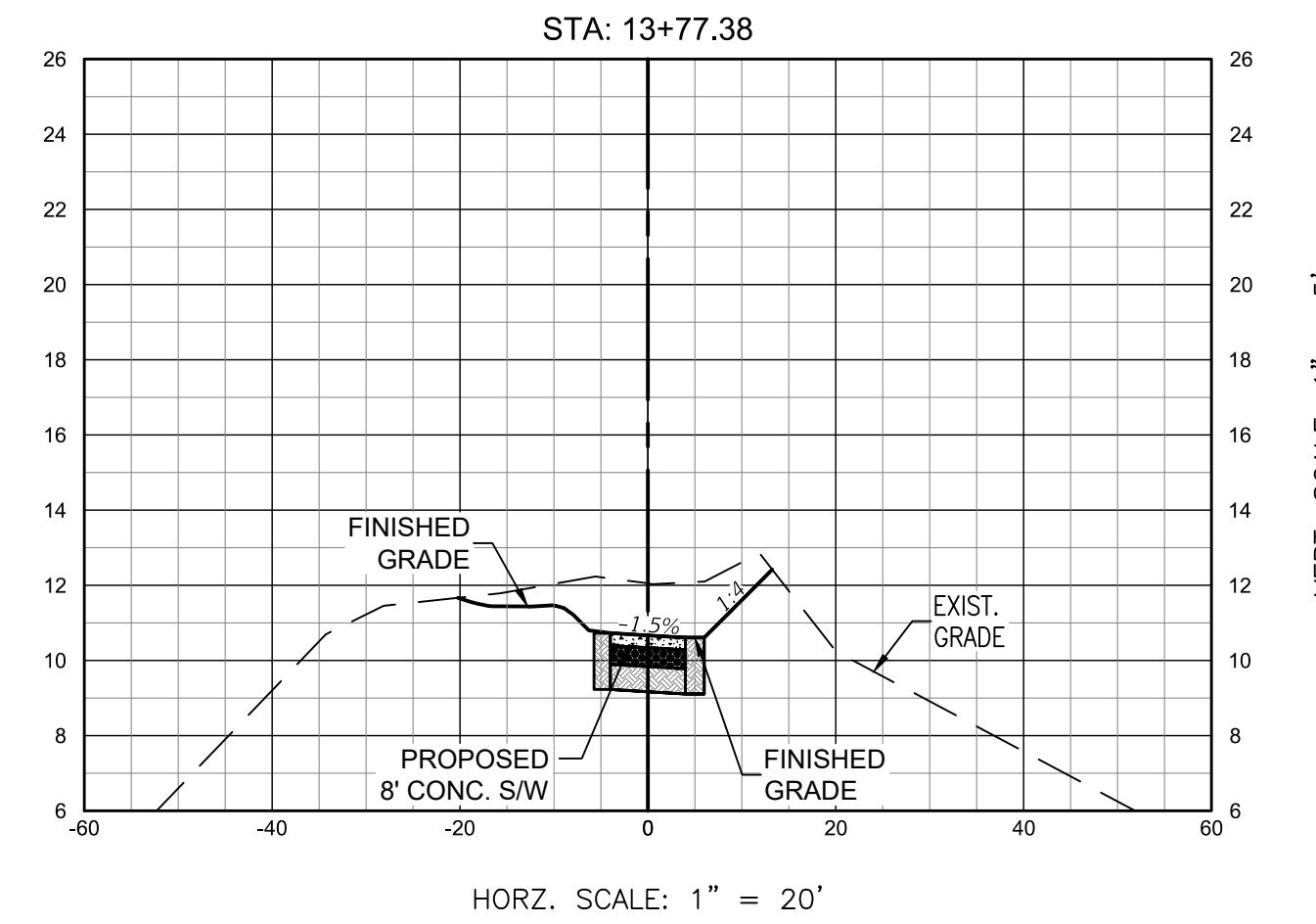
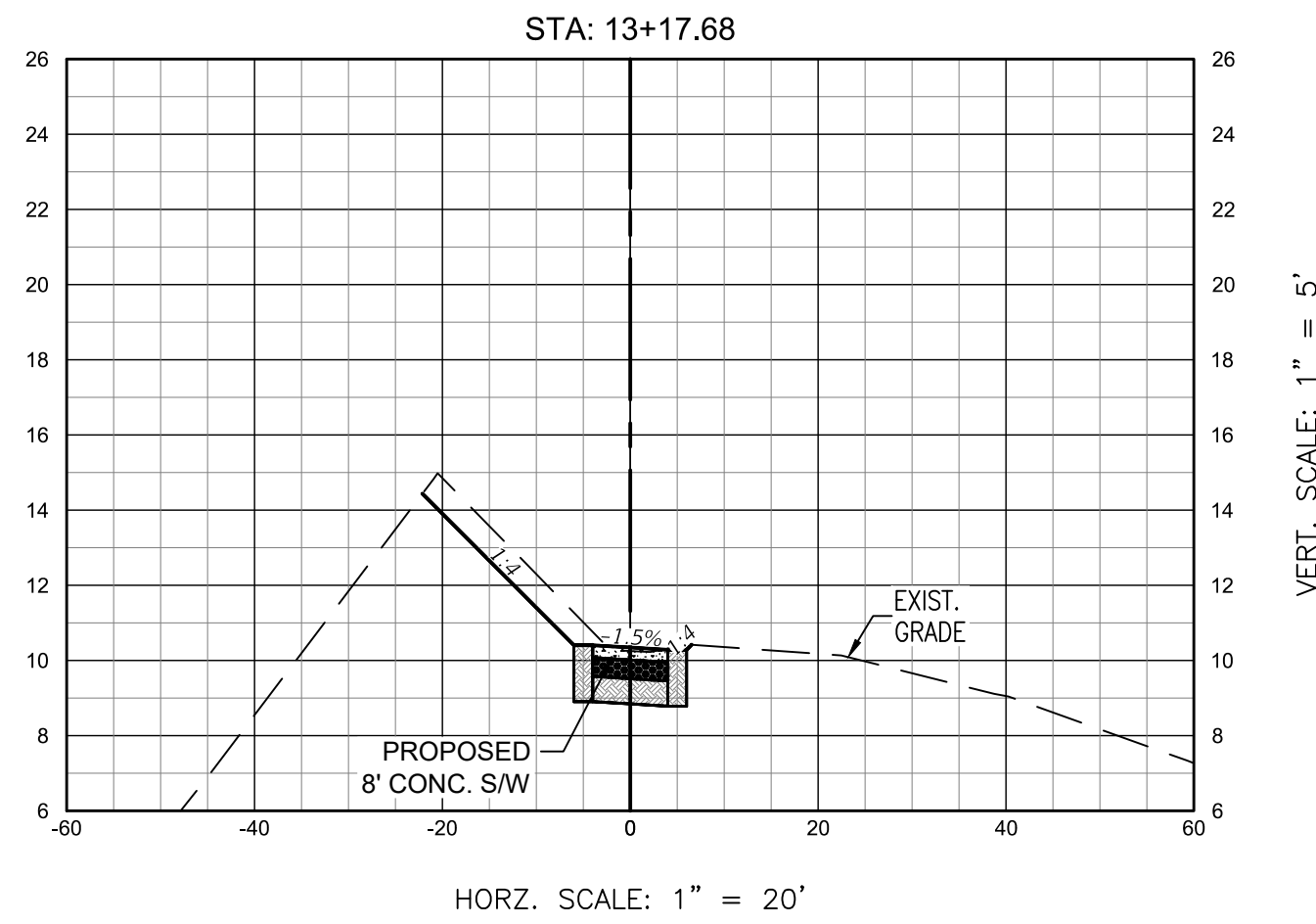
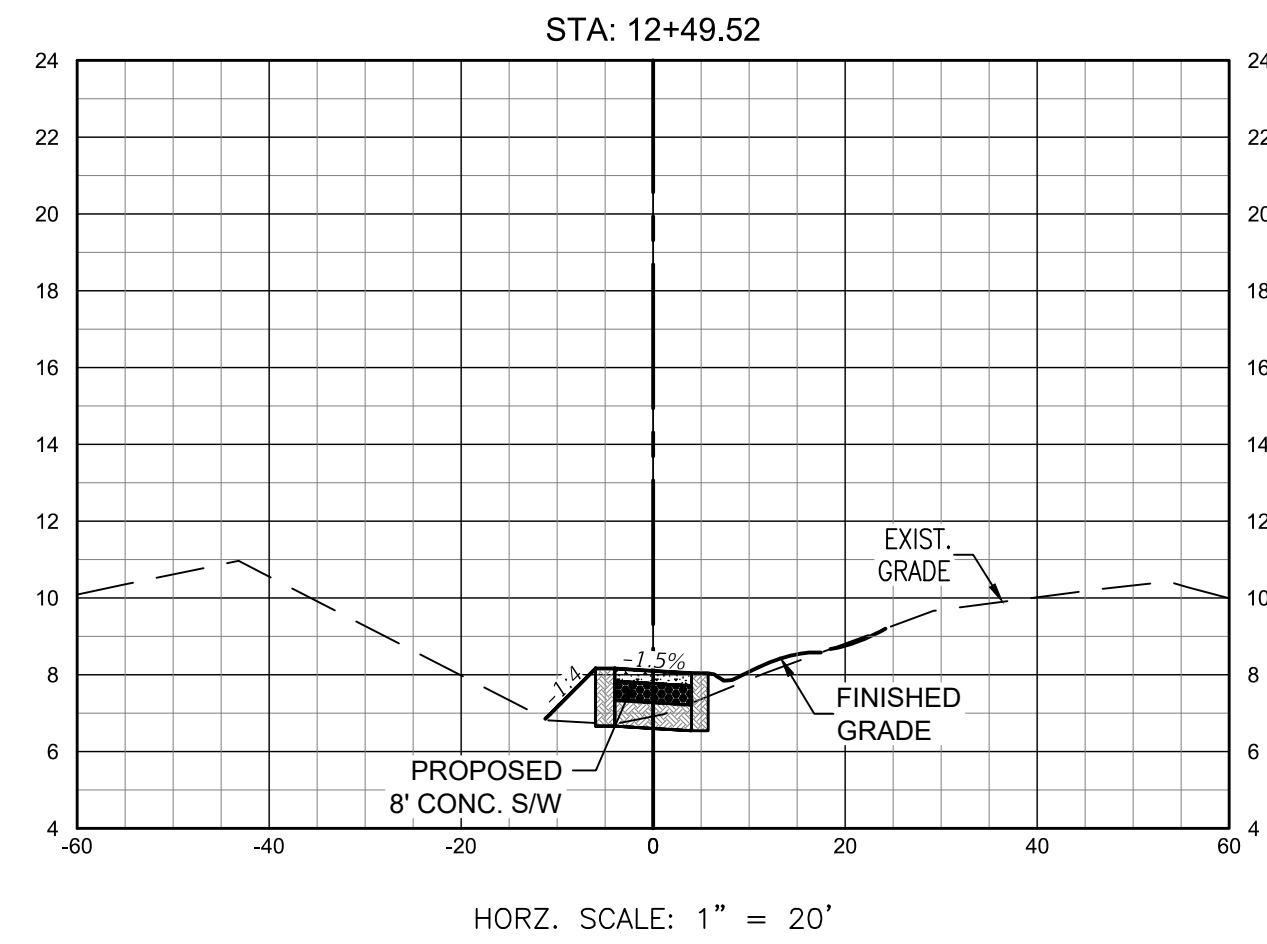
Client
Ocala County Board of County Commissioners

Title
Veterans Park East Lobe Expansion
PROPOSED SITE & PROJECT CONTROL PLAN

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Drawn	C. RILEY	Coordination	K. MORGAN		
Dwg check		Approved	K. MORGAN		
Scale at ANSI D	AS NOTED	Status	BID	Rev	0
Drawing Number		Security	STD		

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Rev	Date	Drawn	Description	Ch'k'd	App'd

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Client
Ocala County Board of County Commissioners

Title
Veterans Park East Lobe Expansion
CROSS SECTIONS - PROPOSED WALKWAY

ISSUED FOR BID

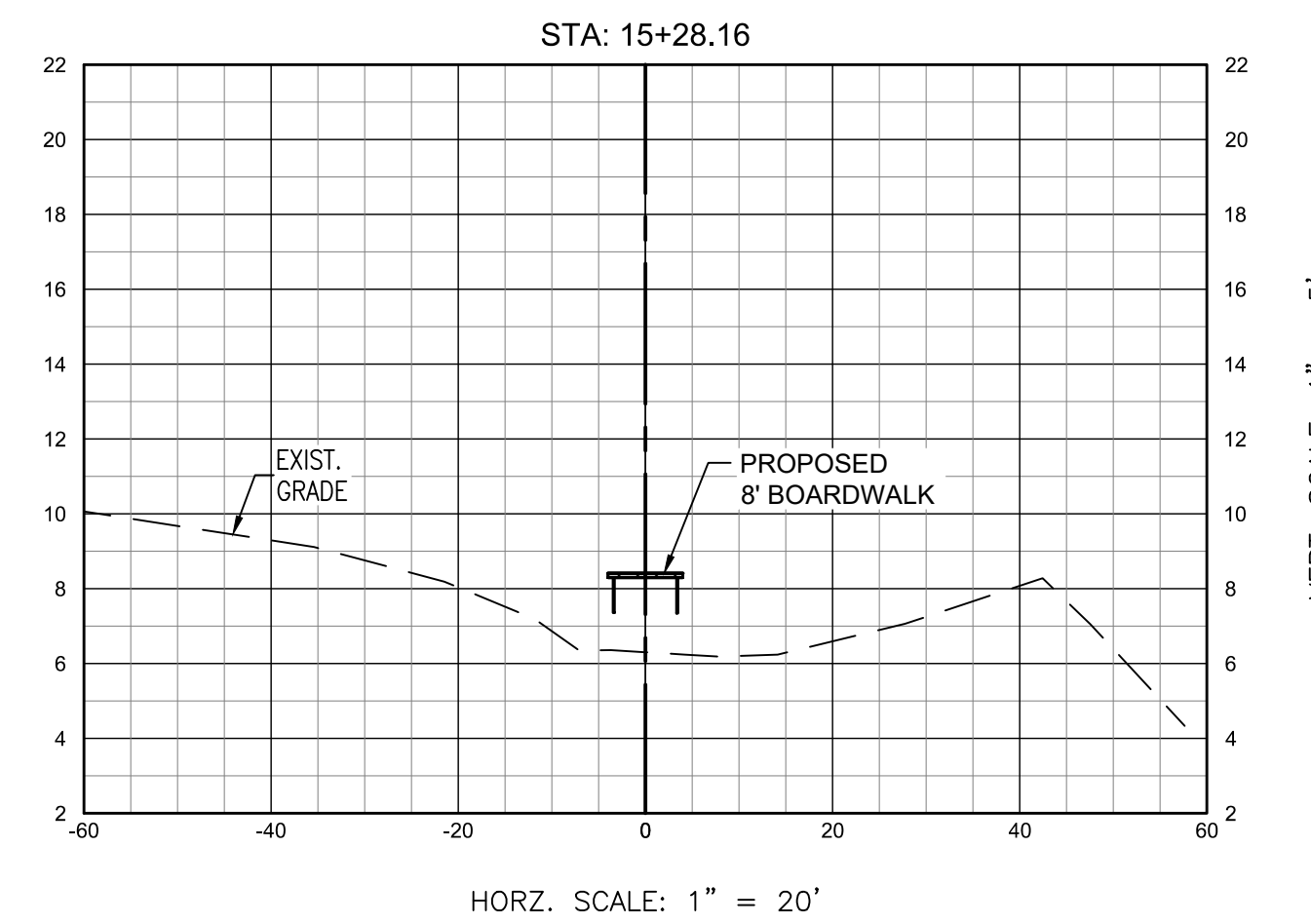
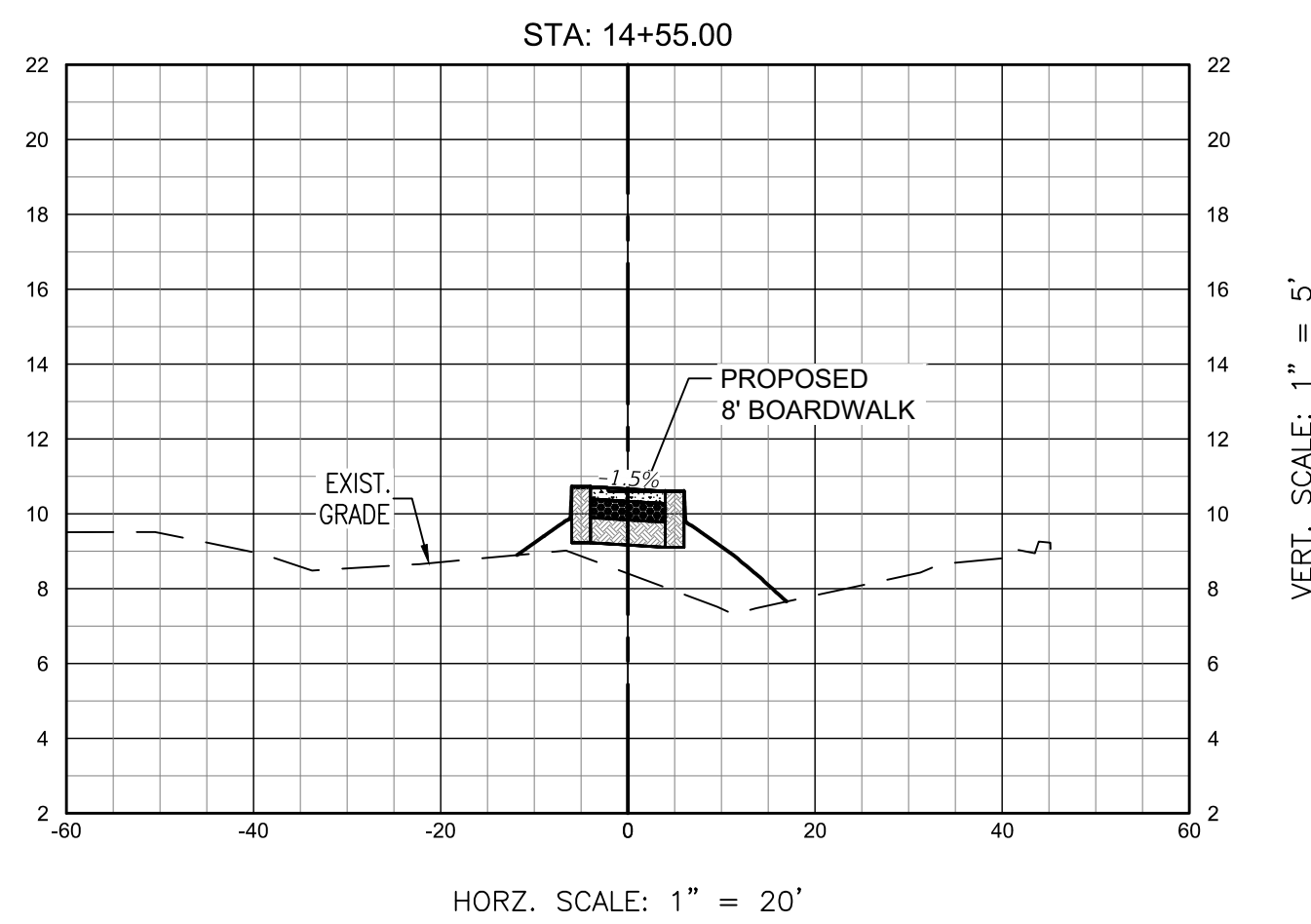
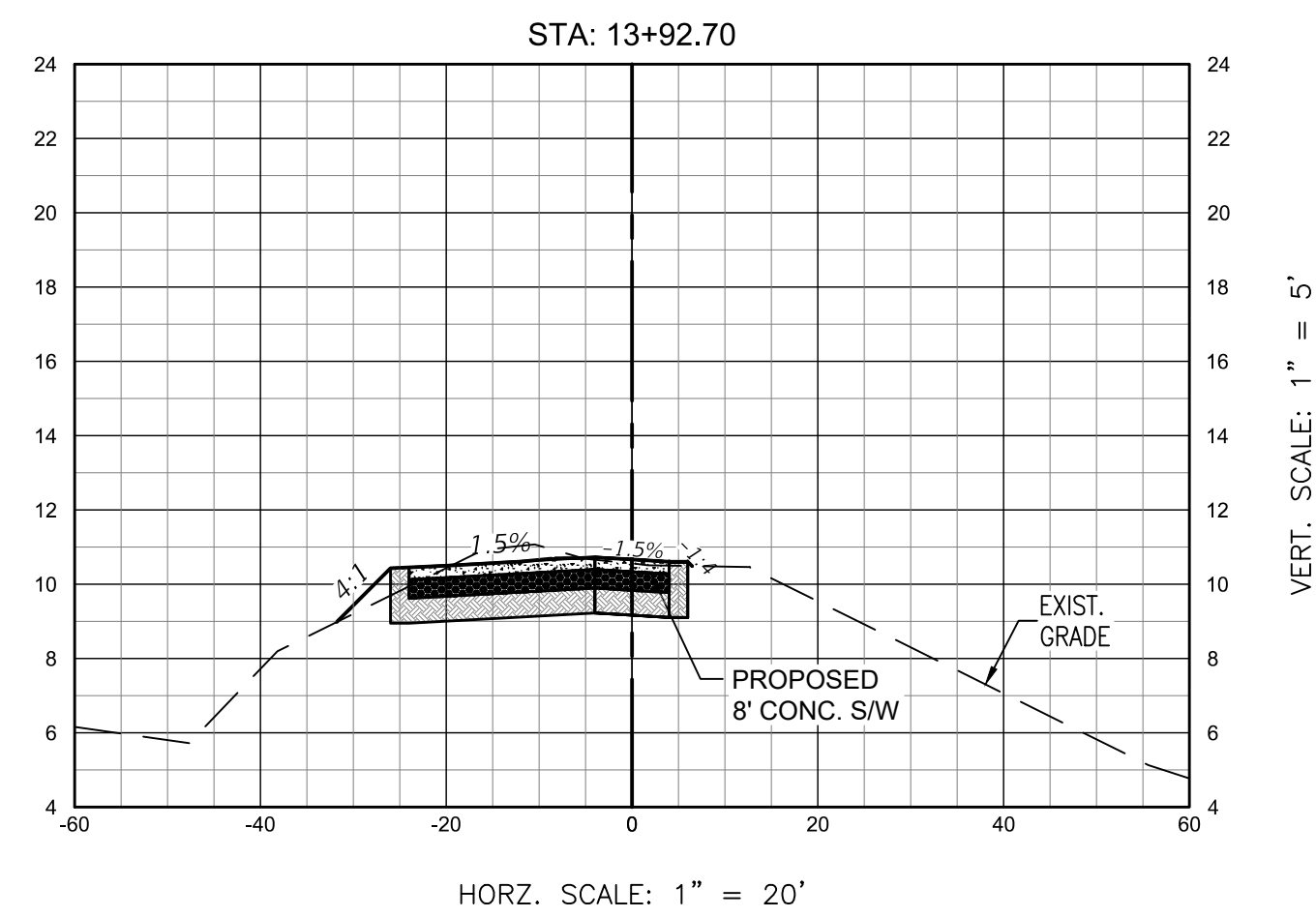
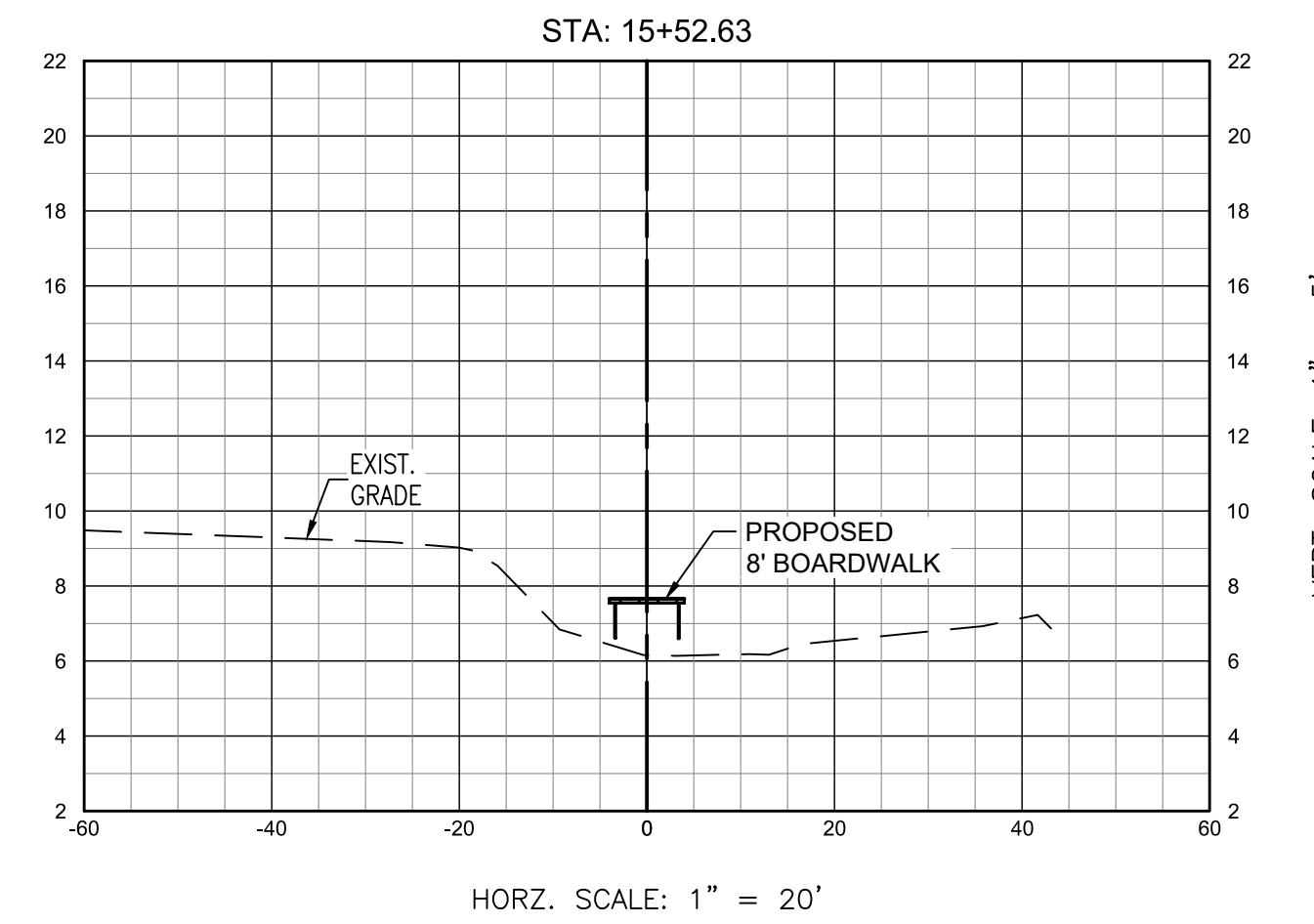
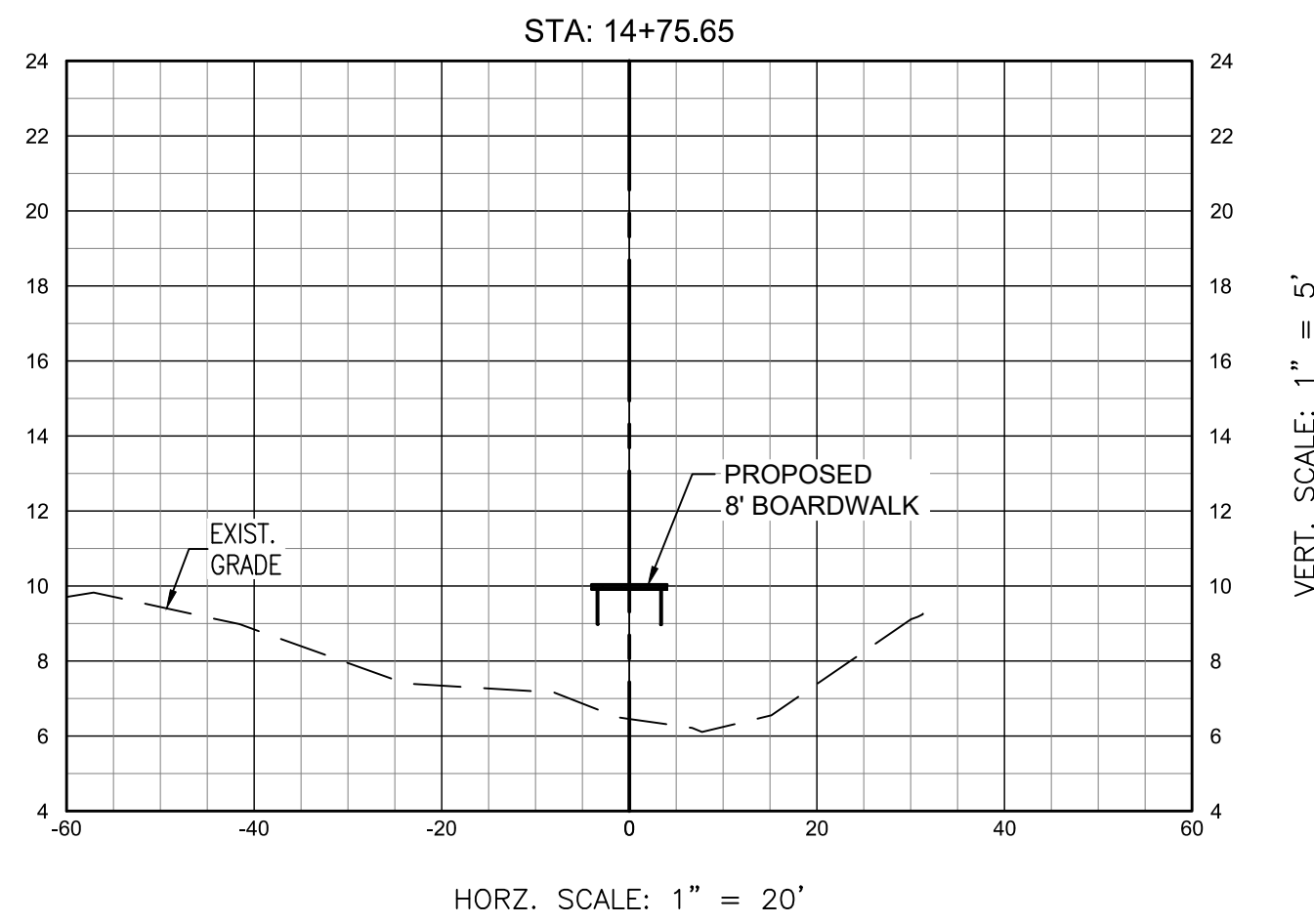
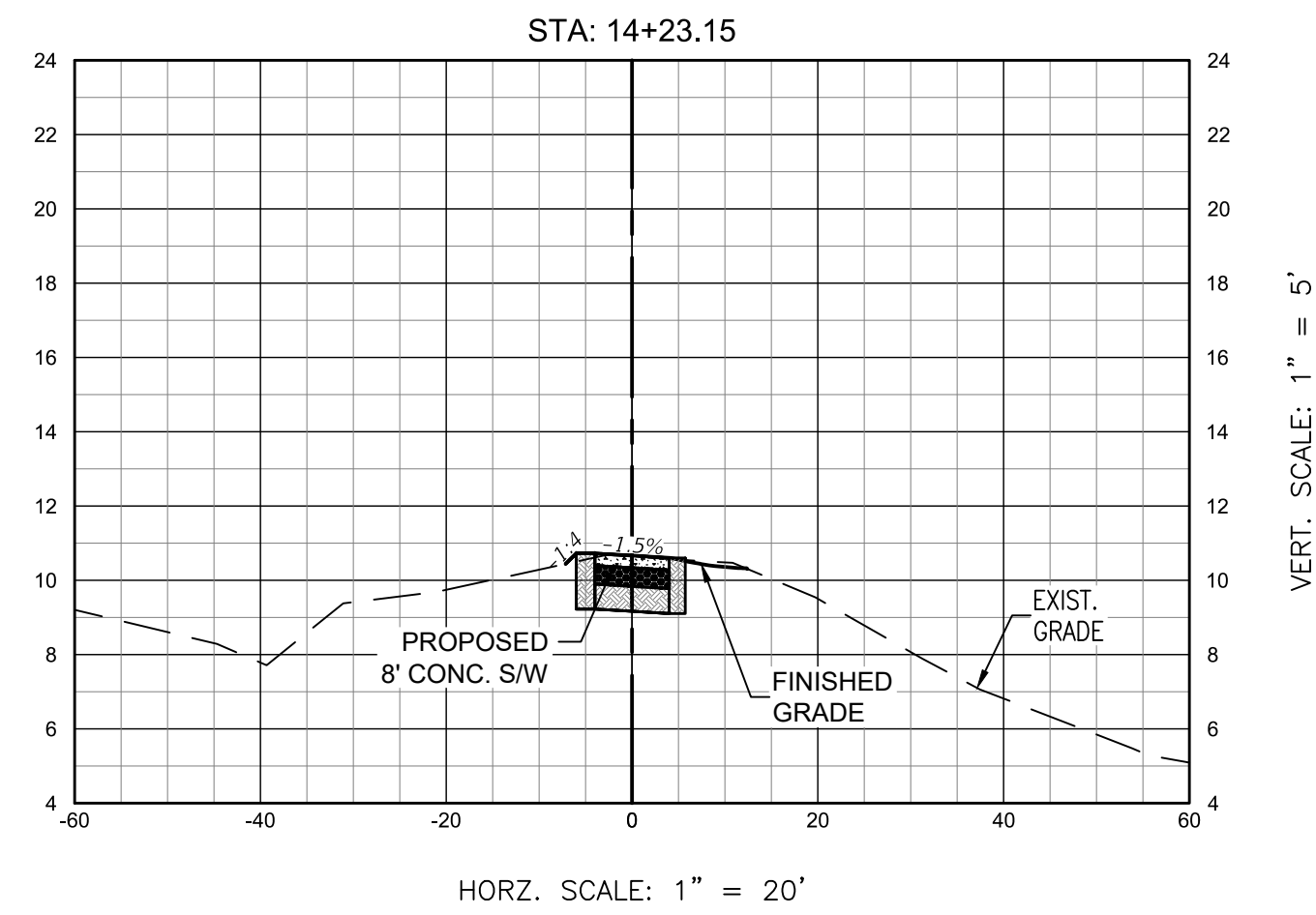
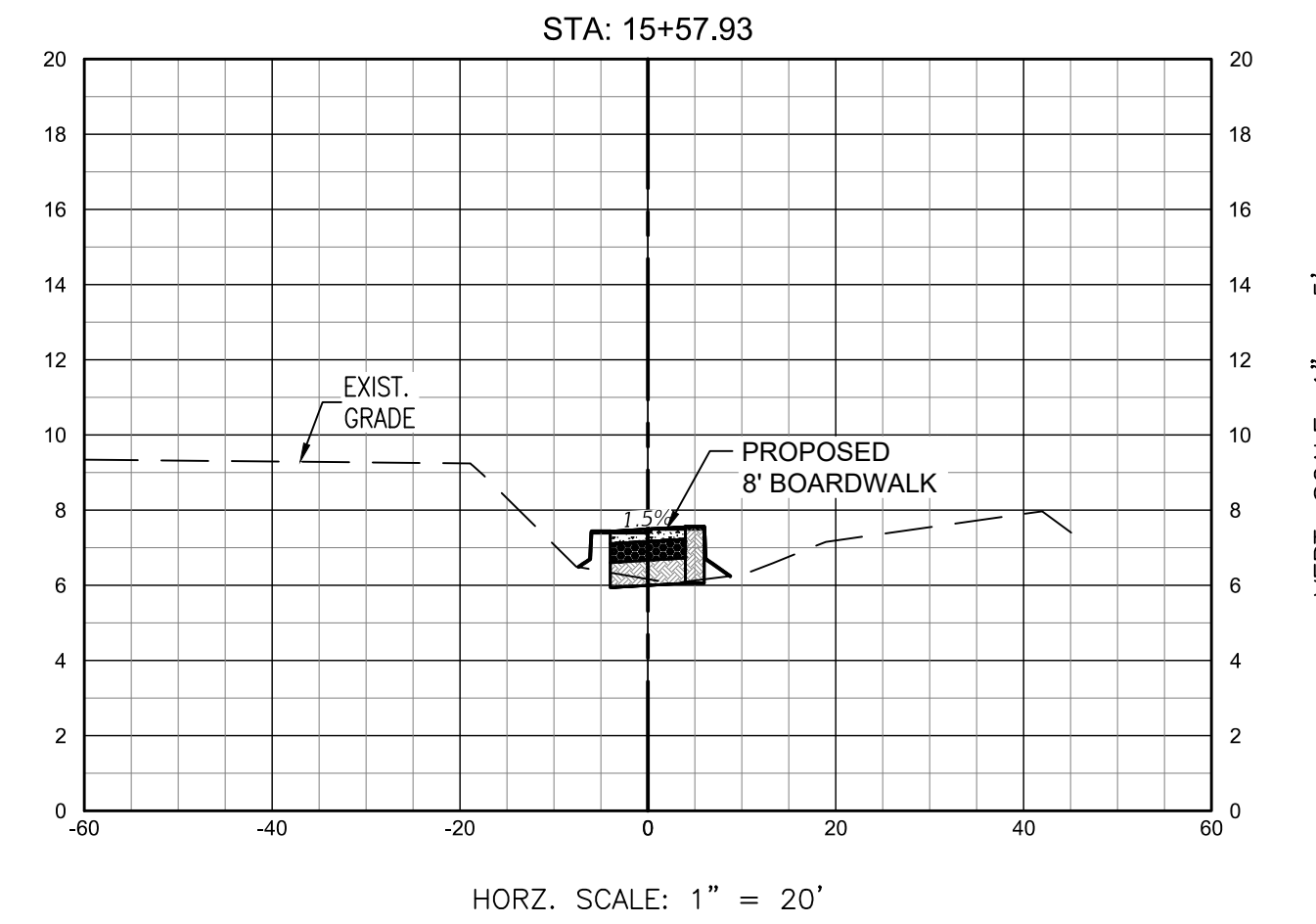
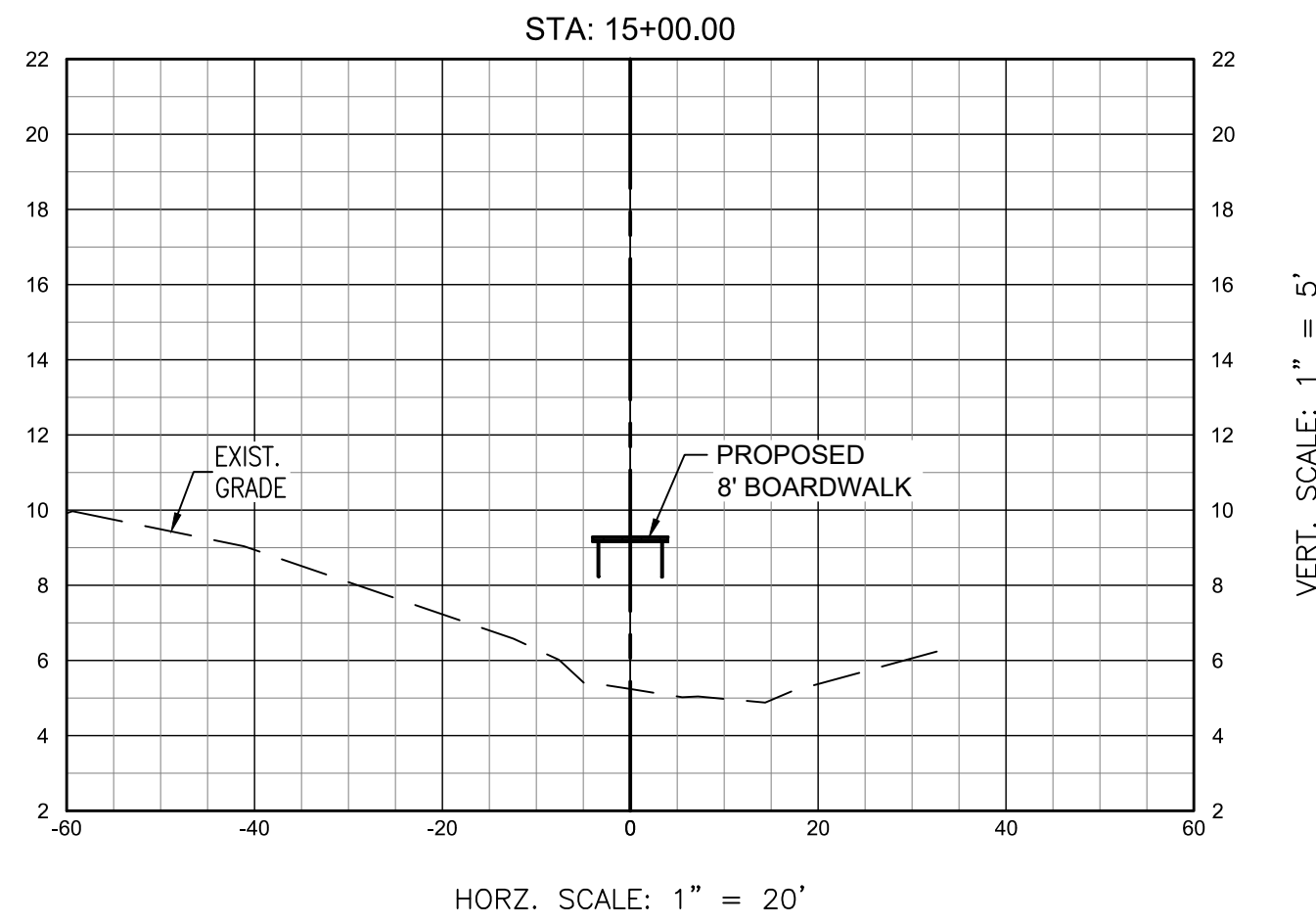
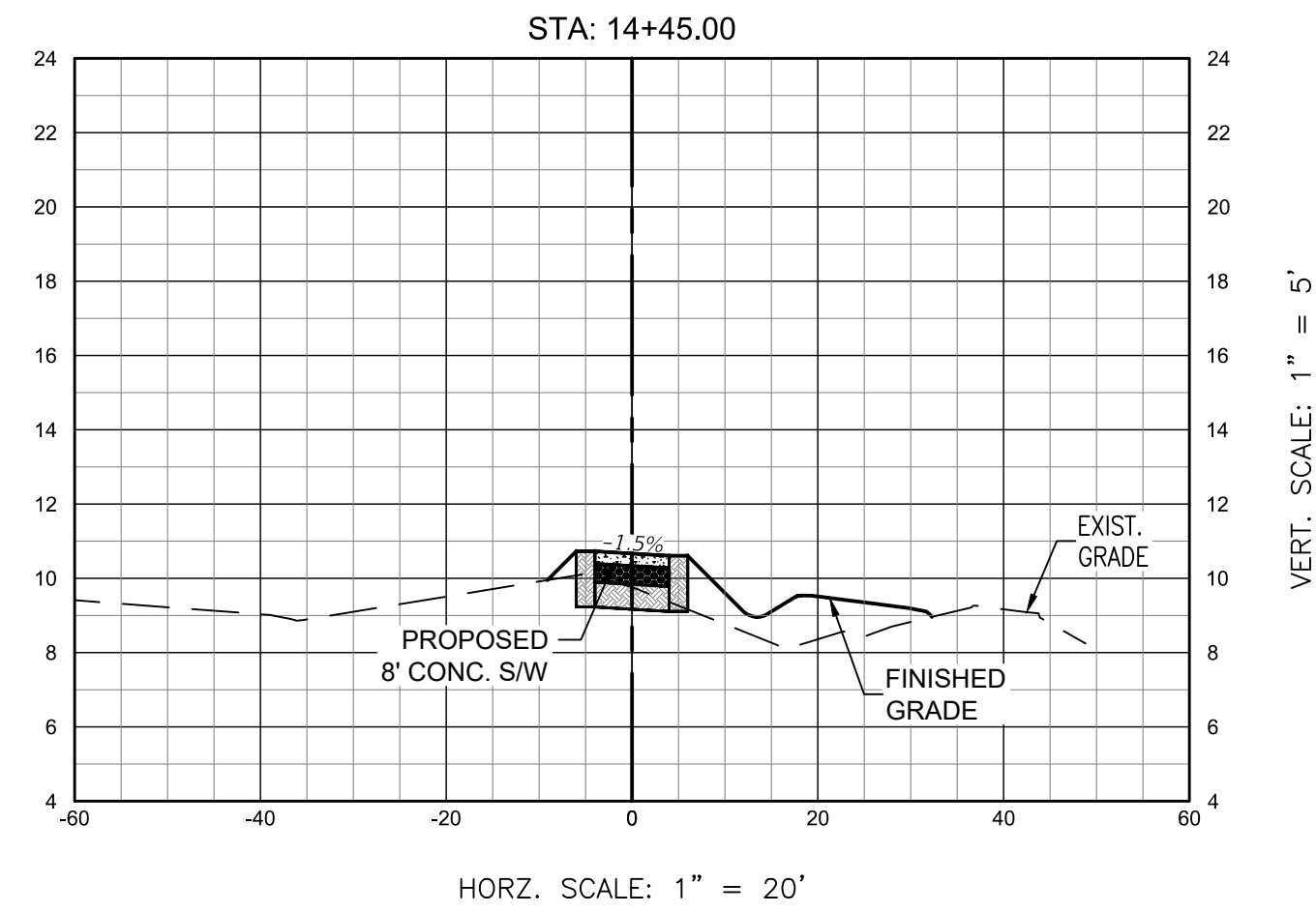
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Dwg check	Approved K. MORGAN	
Scale at ANSI D AS NOTED	Status BID	Rev 0
Drawing Number		Security STD

C-11

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Time Stamp: Mar 19, 2026 - 2:21:48PM
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Rev	Date	Drawn	Description	Ch'k'd	App'd

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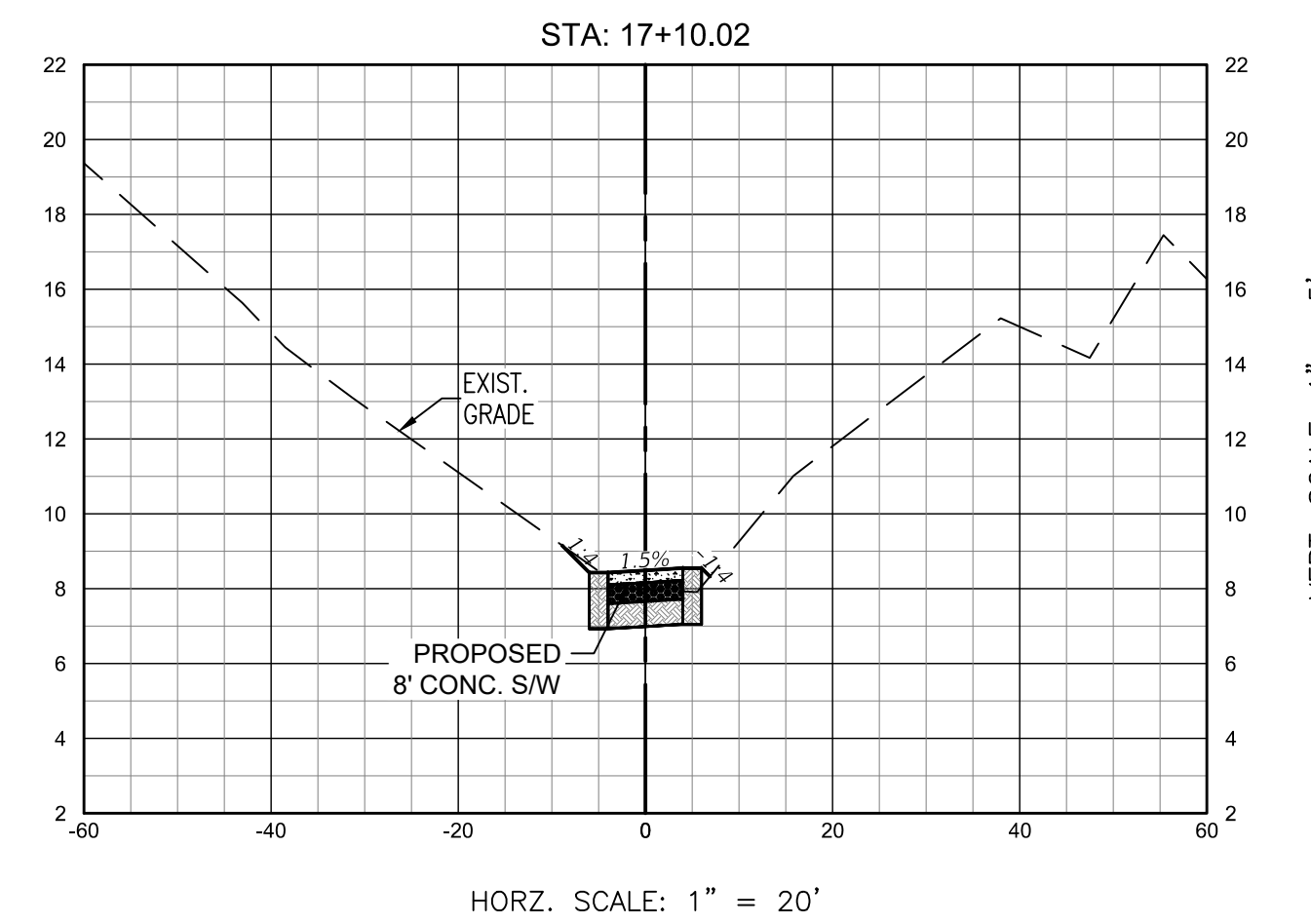
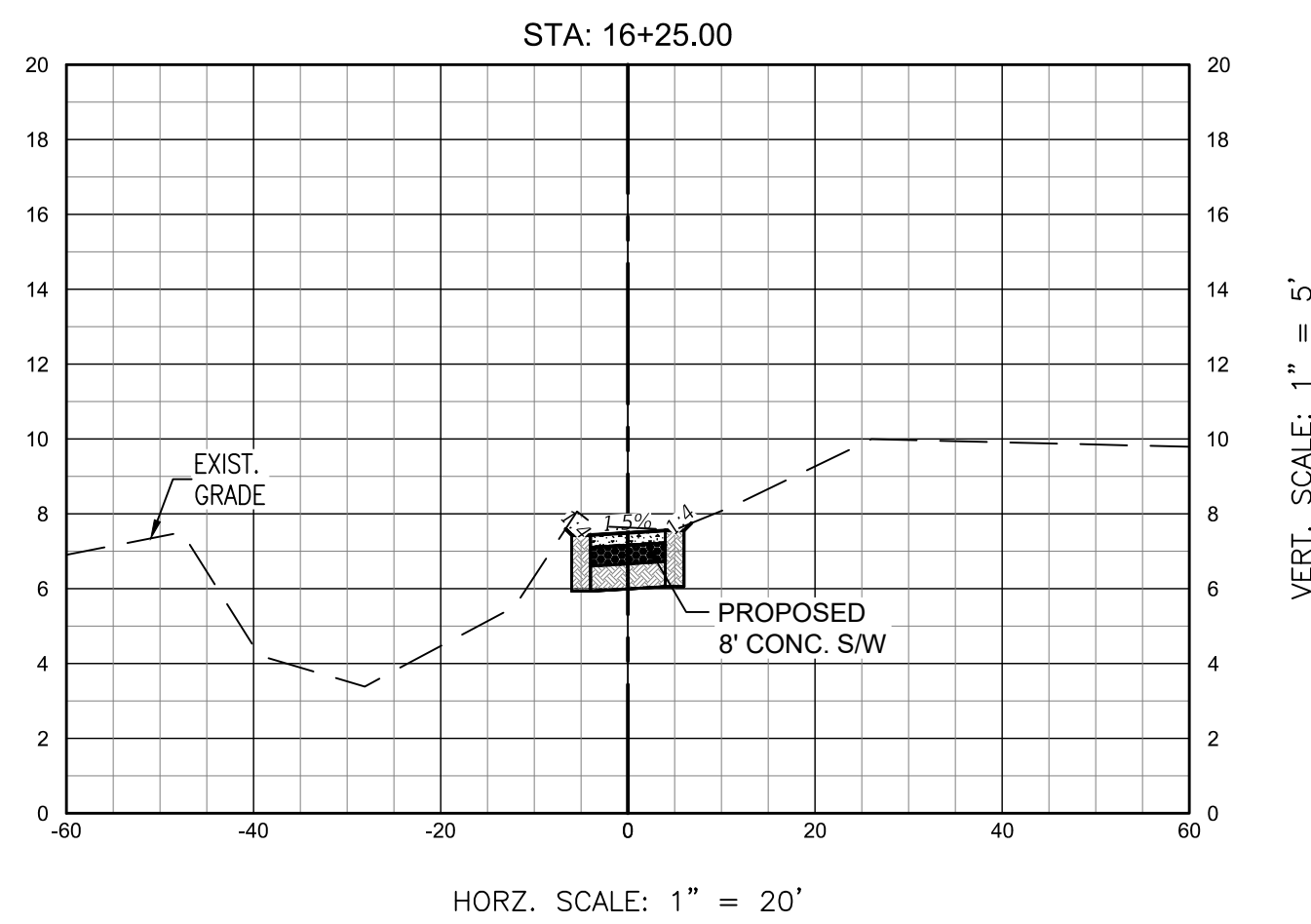
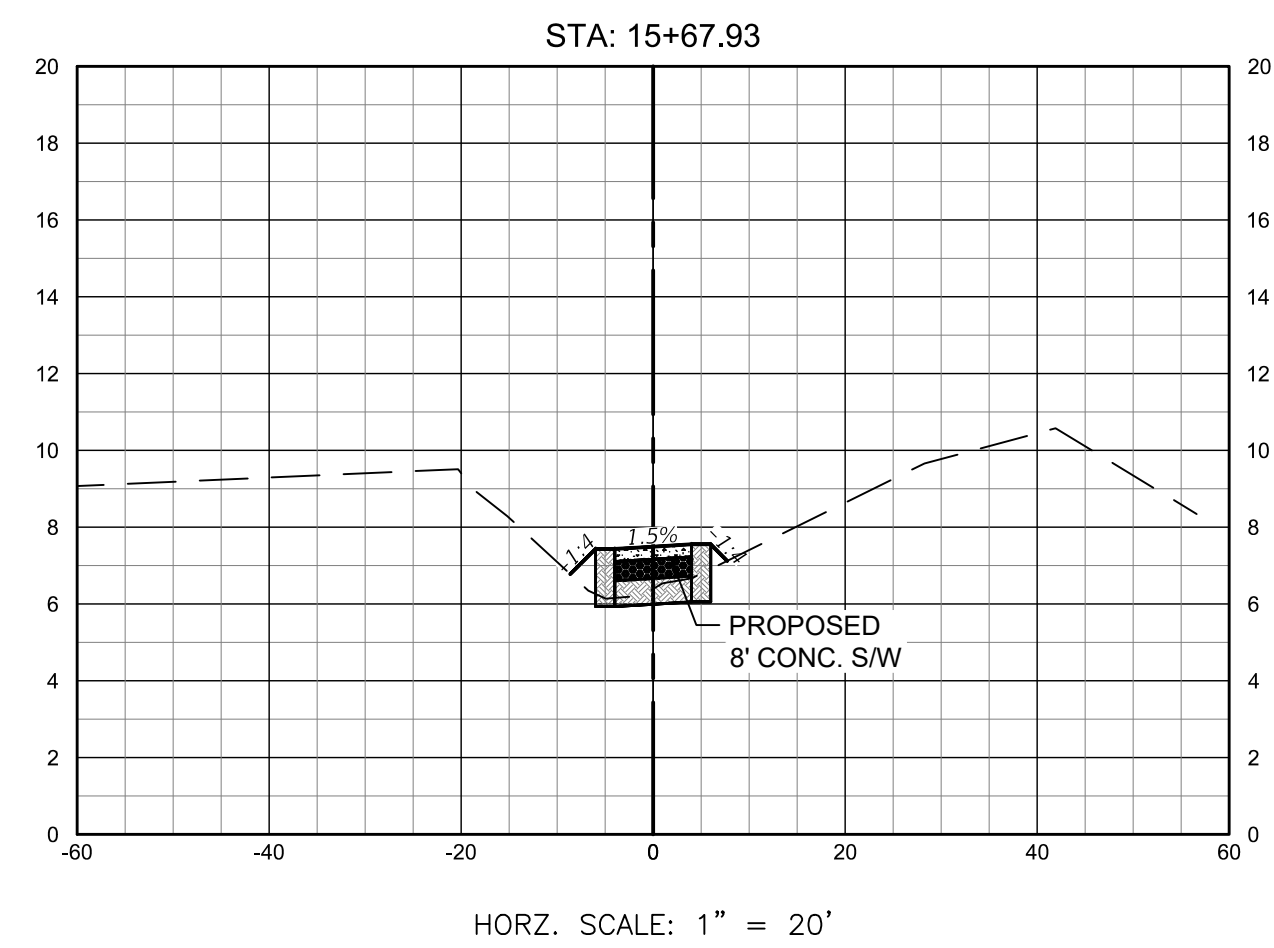
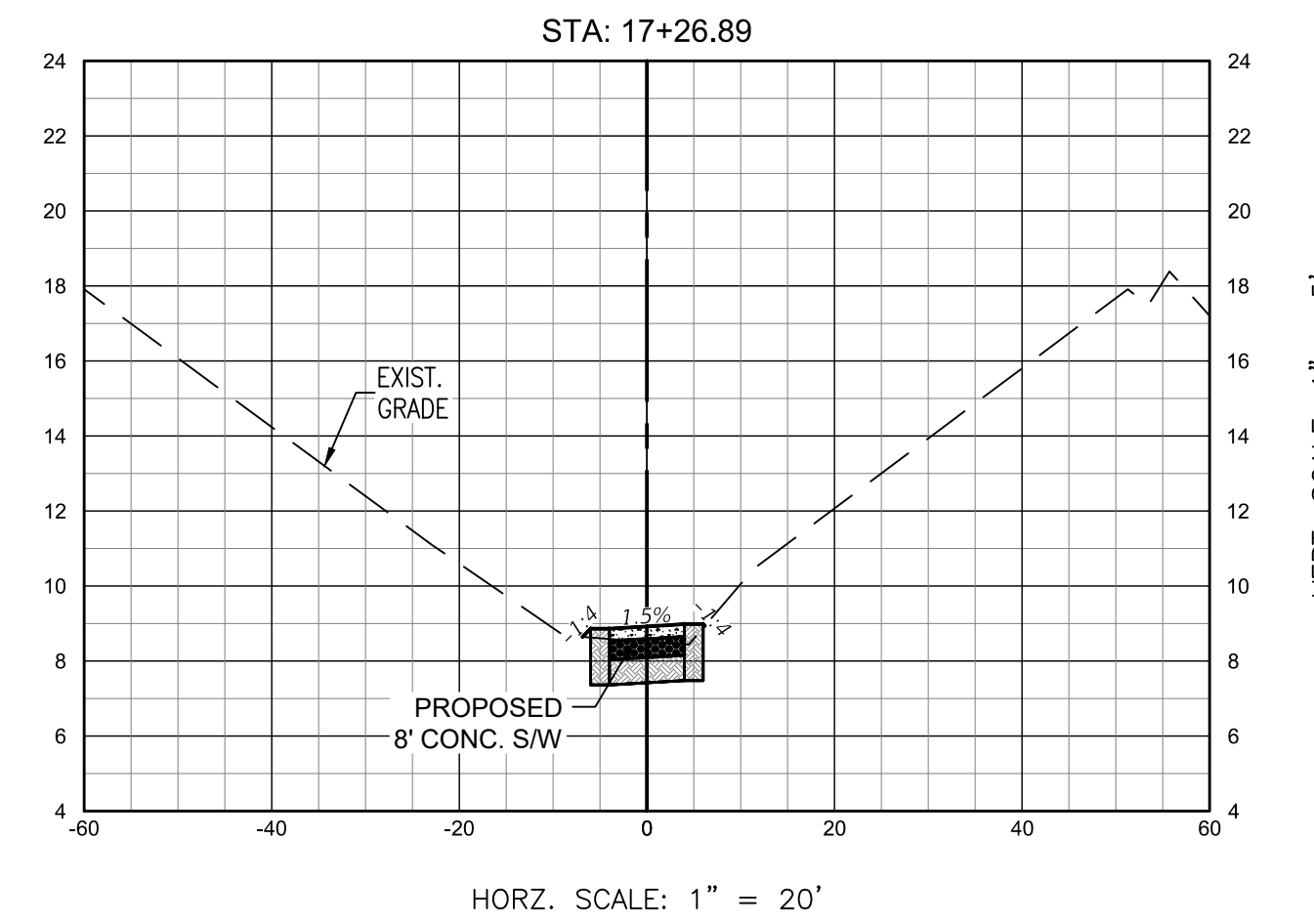
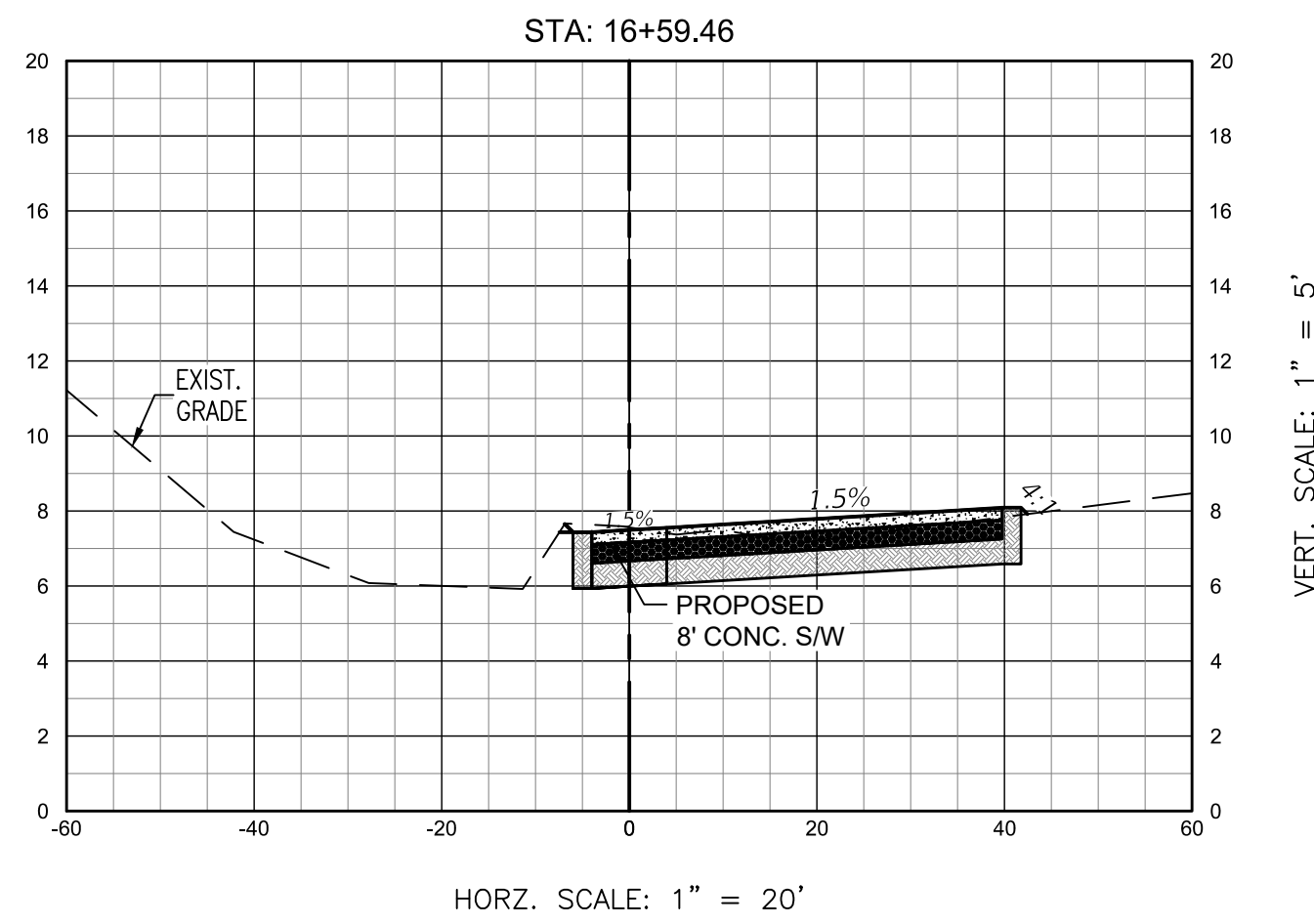
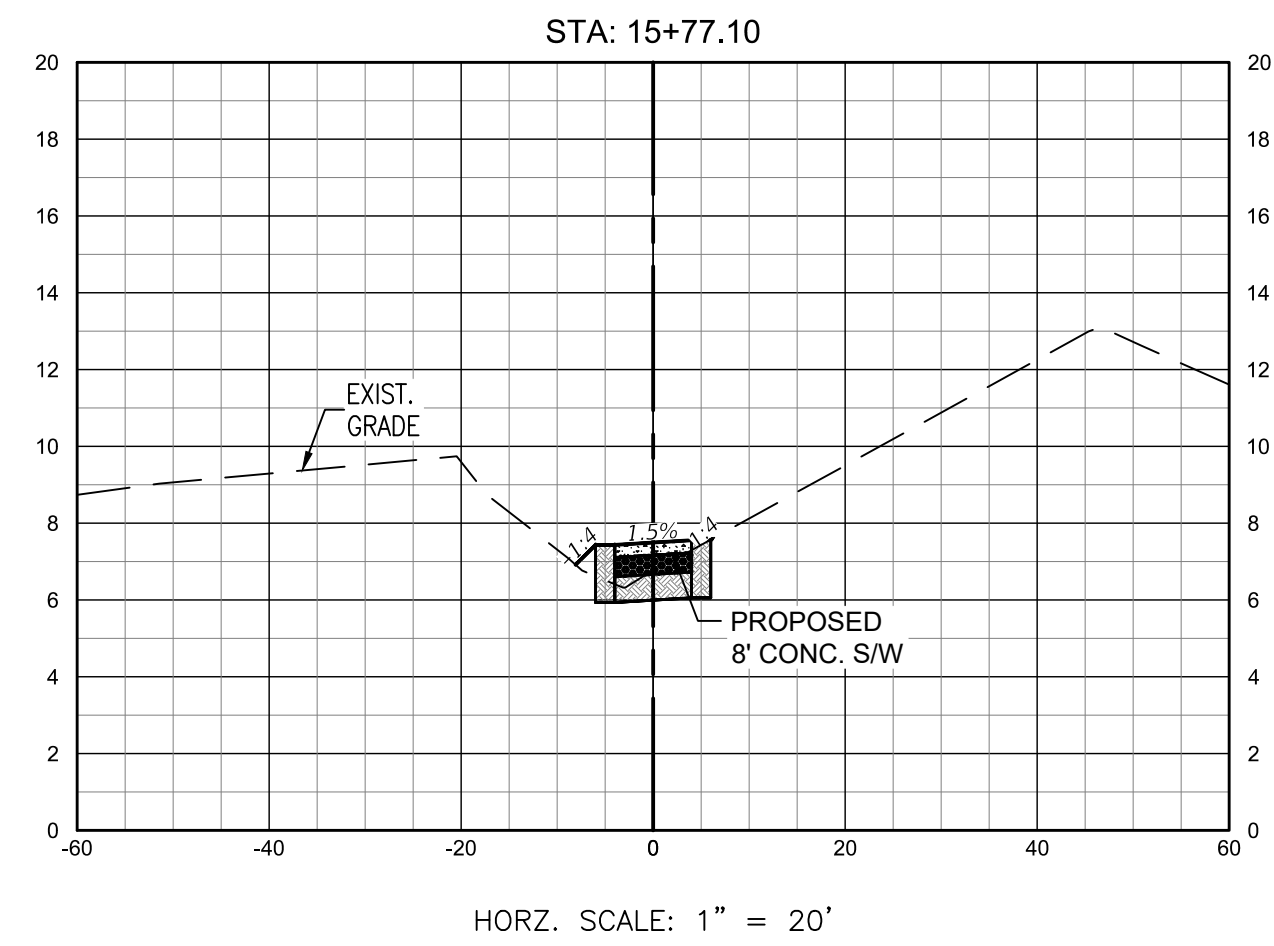
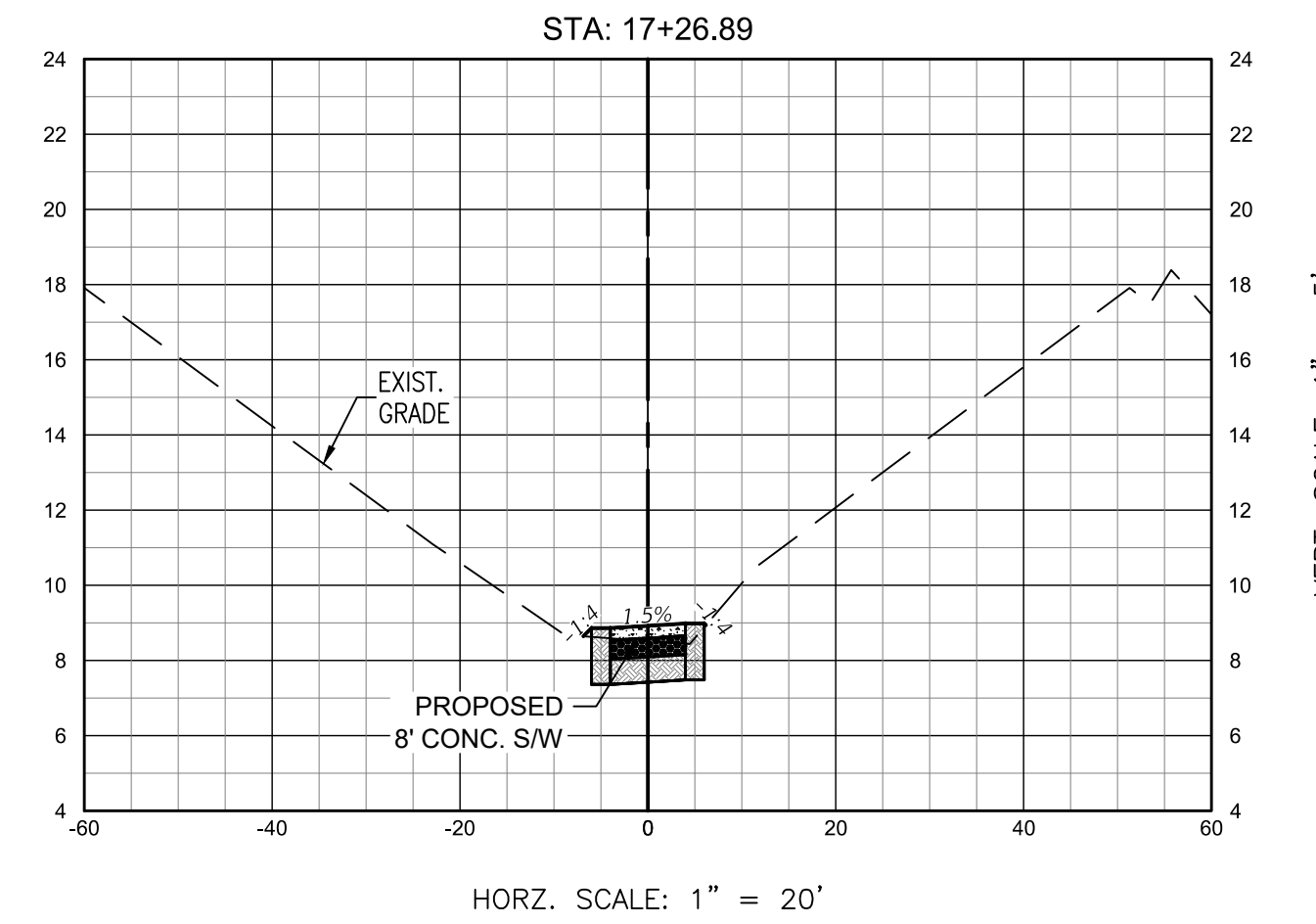
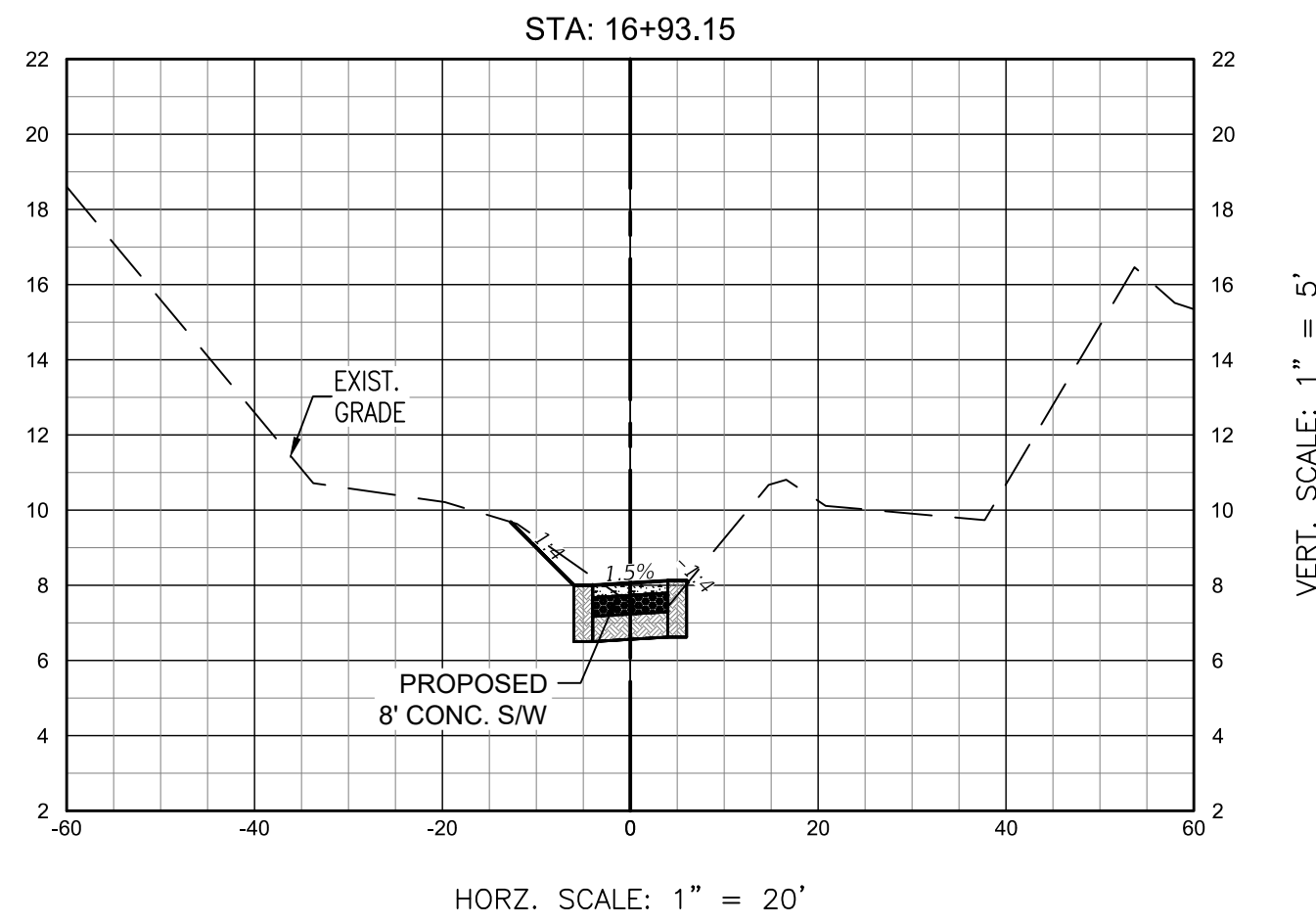
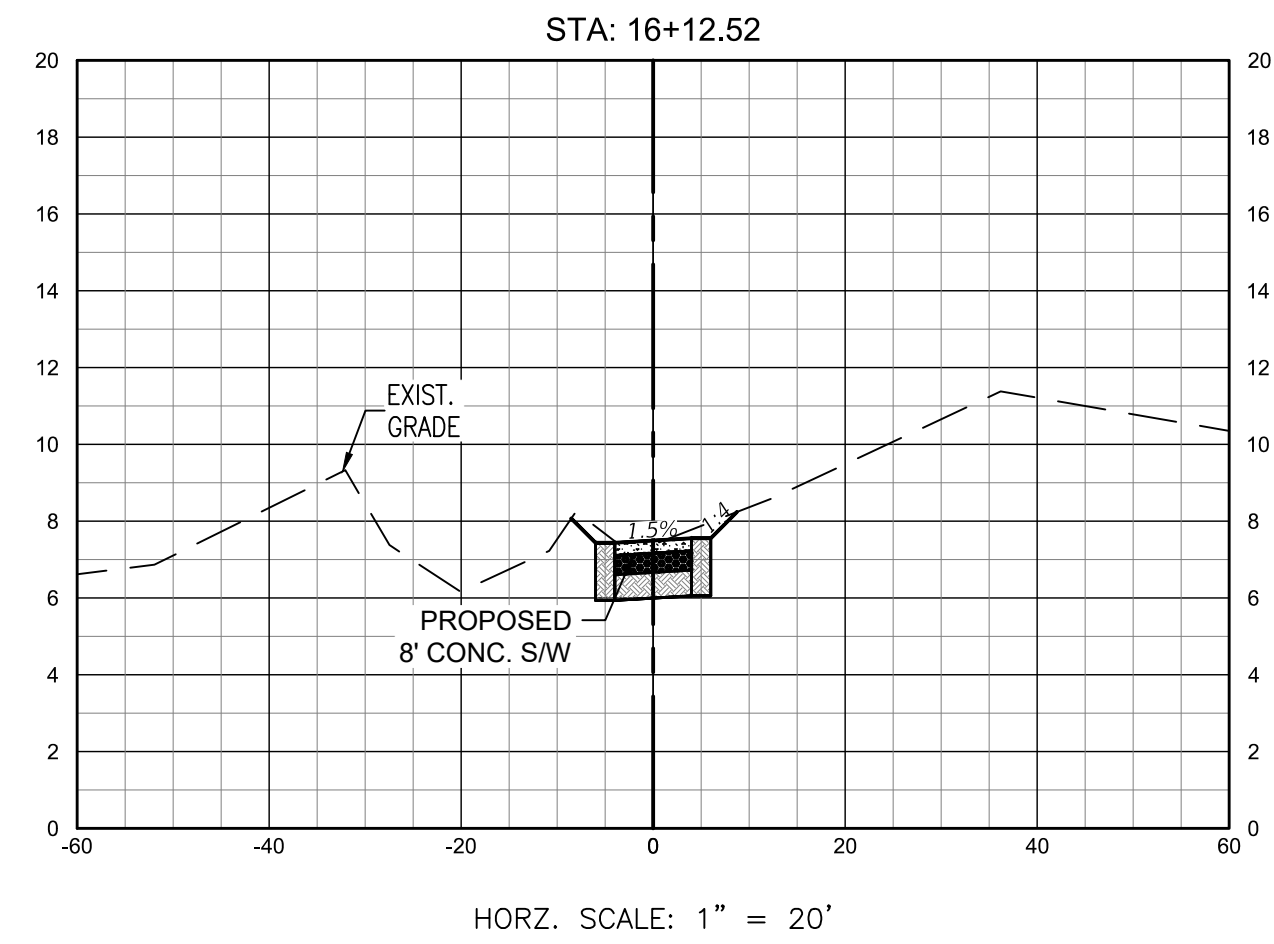
Client
**Okaloosa County
 Board of County Commissioners**

Title
Veterans Park East Lobe Expansion
CROSS SECTIONS - PROPOSED WALKWAY

ISSUED FOR BID

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Project Number 502101659-011	B/O 12	Total 33
Designed K. MORGAN	Eng check S. WHITE	
Drawn C. RILEY	Coordination K. MORGAN	
Dwg check	Approved K. MORGAN	
Scale at ANSI D AS NOTED	Status BID	Rev 0
Drawing Number	Security STD	



Rev	Date	Drawn	Description	Ch'k'd	App'd

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Architects Engineers Surveyors
 AA - C0000035 EB - 0000155 LB - 0006783

Client
Okaloosa County Board of County Commissioners

Title
Veterans Park East Lobe Expansion

CROSS SECTIONS - PROPOSED WALKWAY

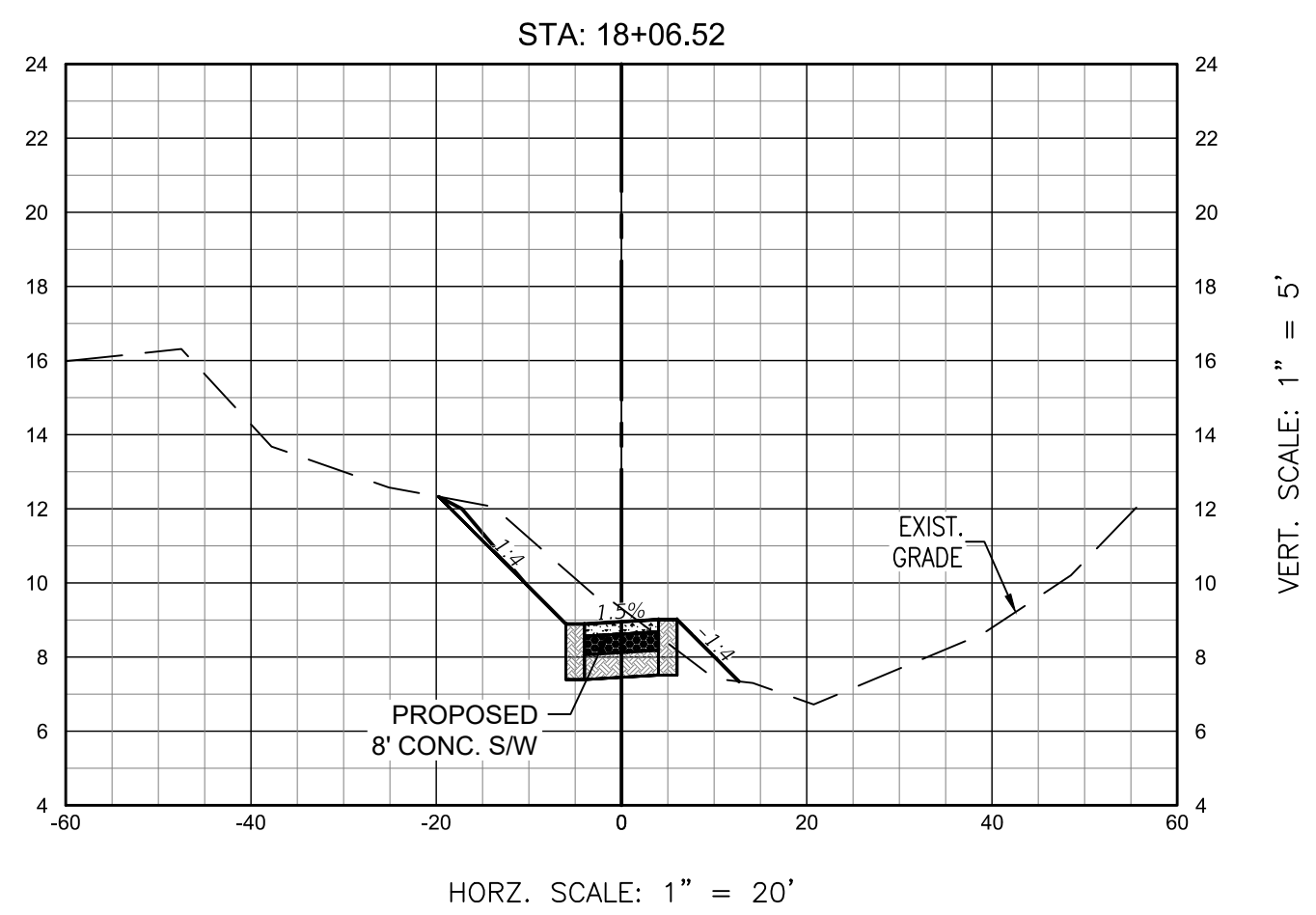
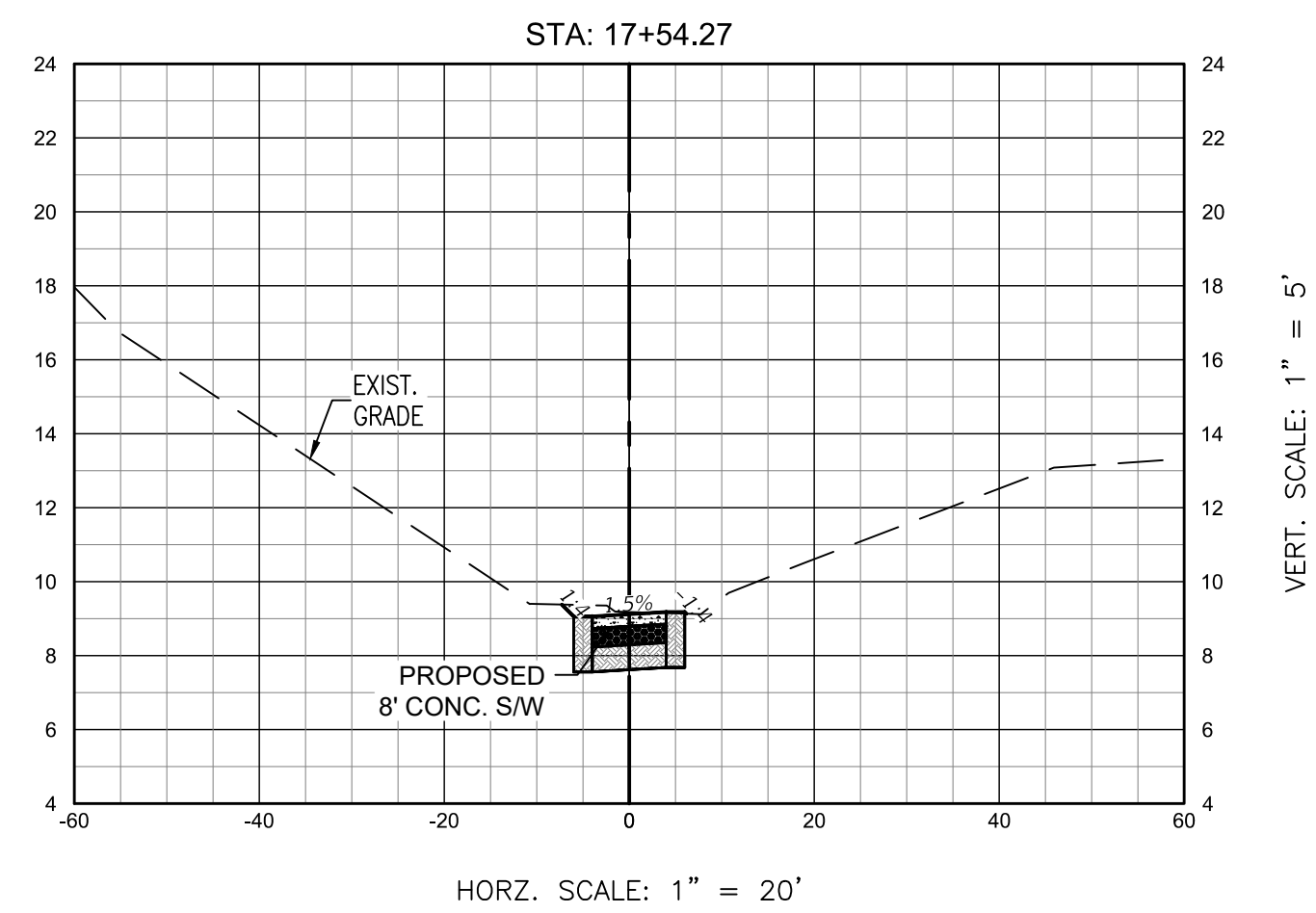
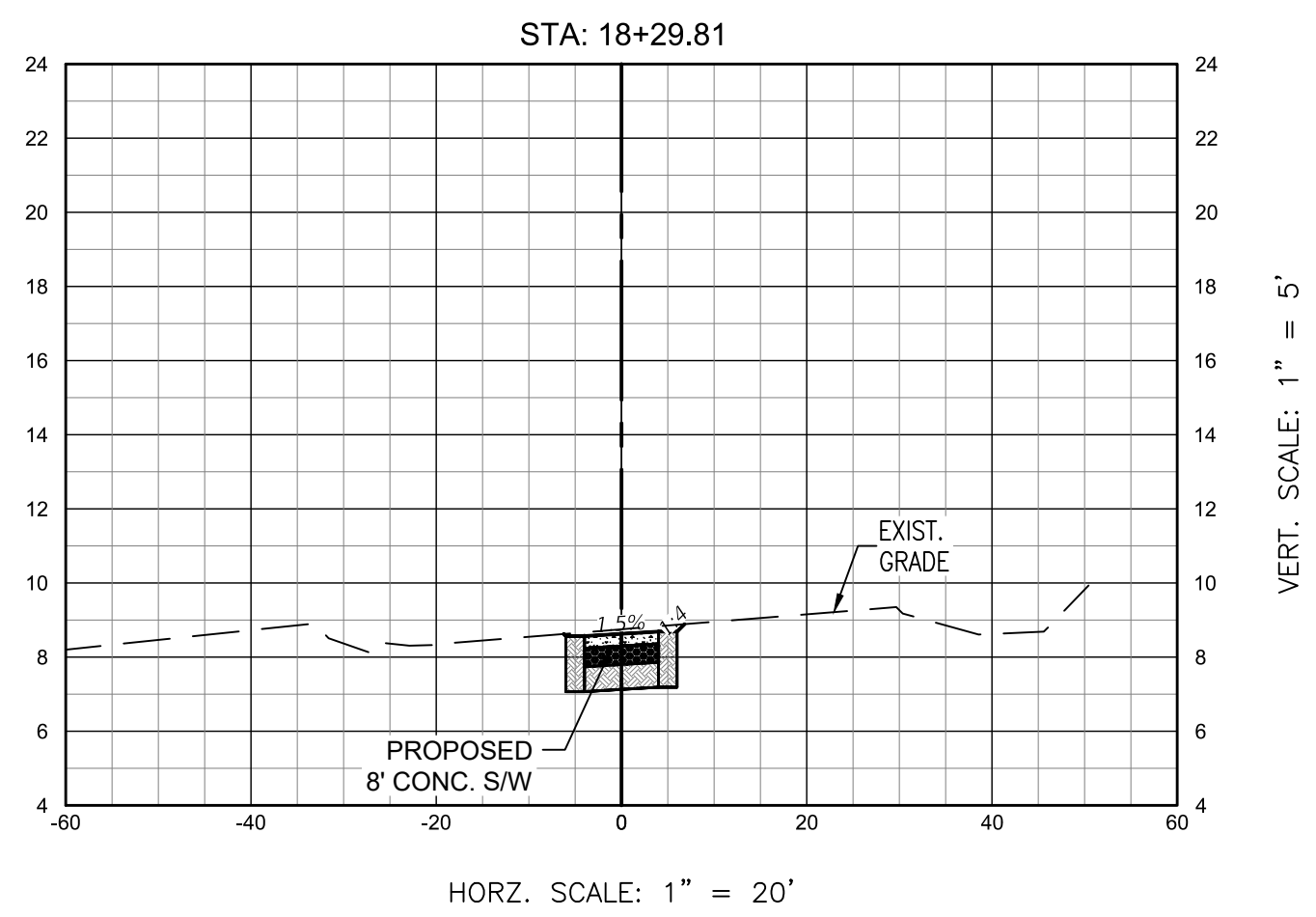
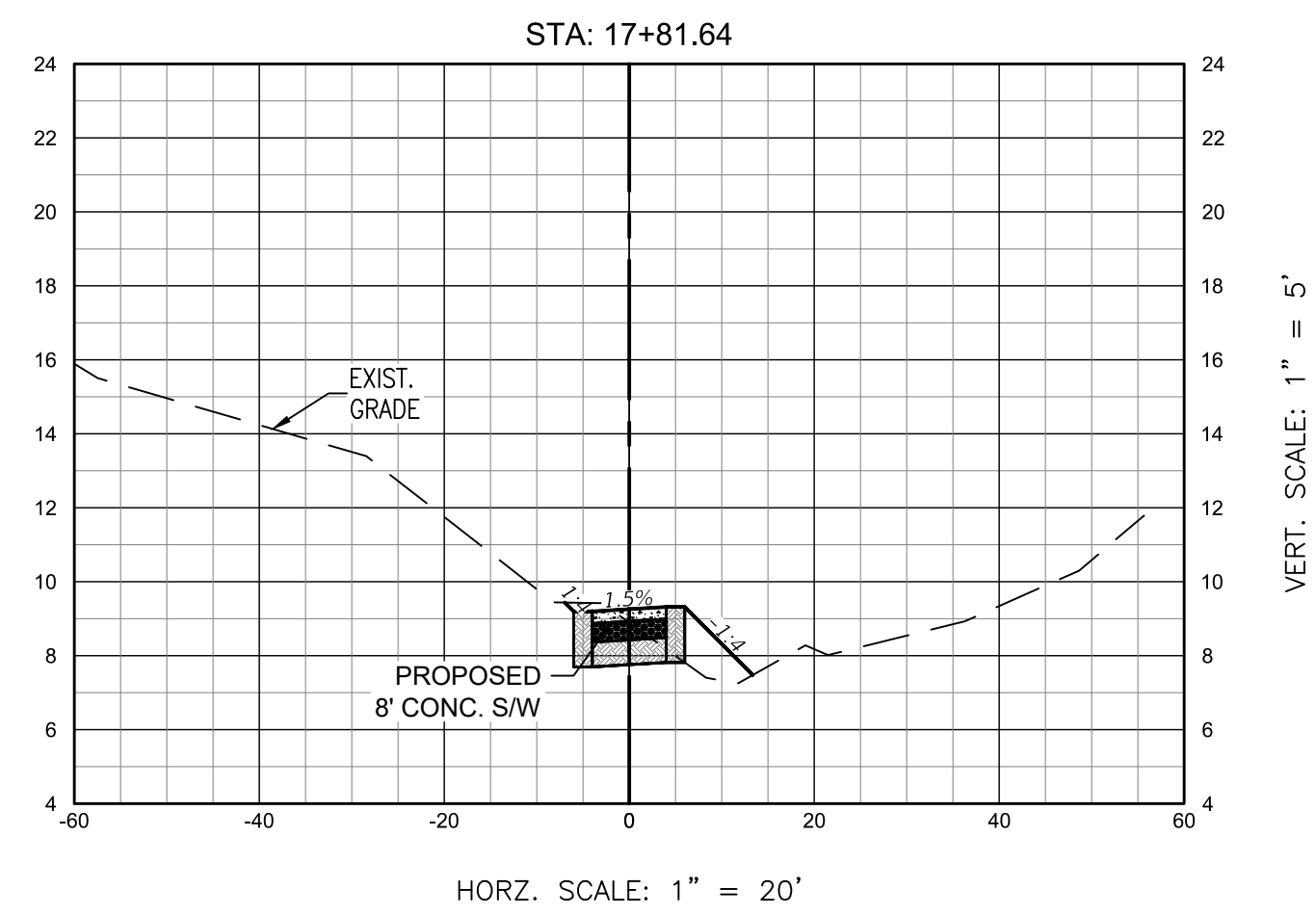
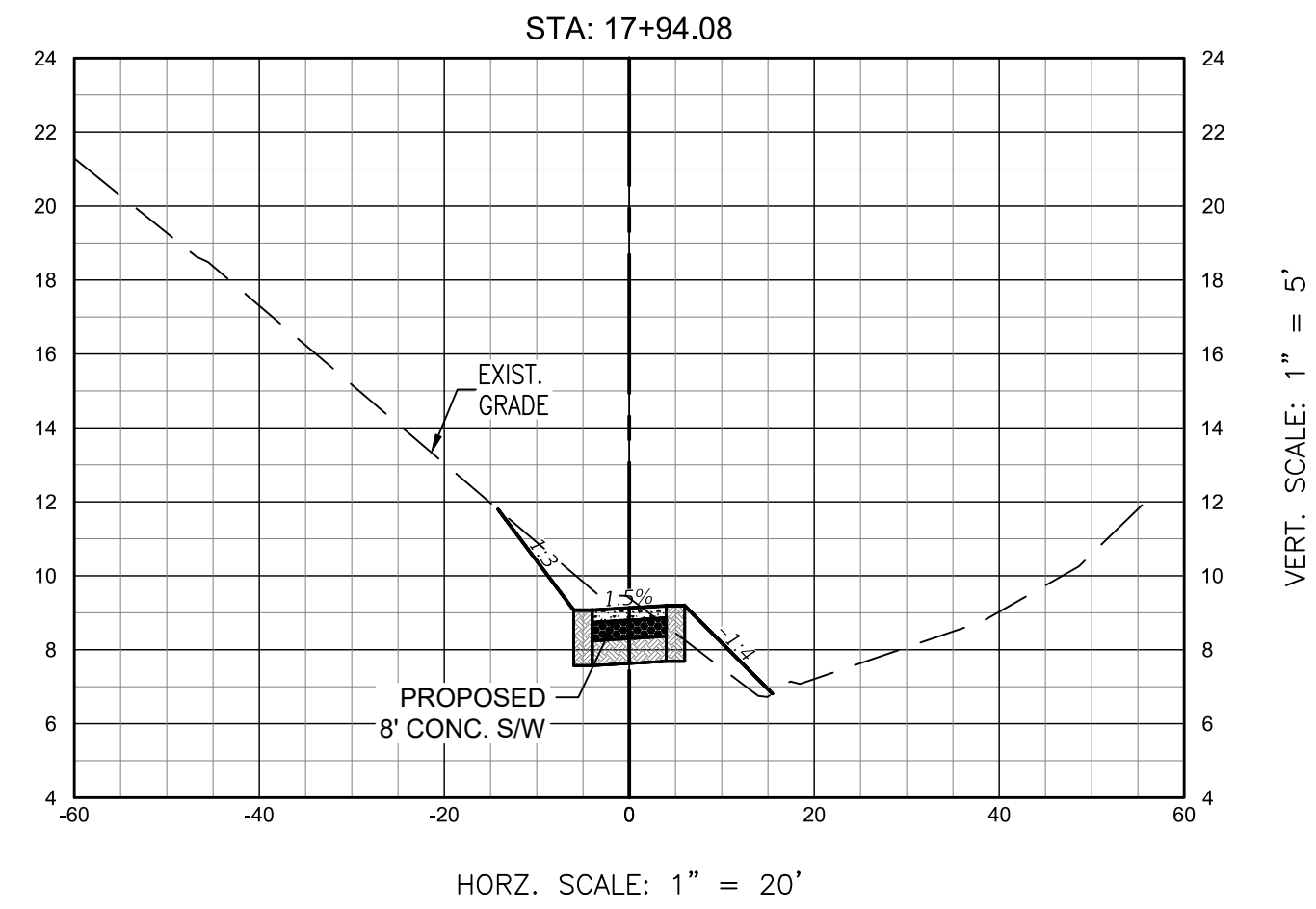
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Project Number	B/O	Total	
502101659-011	13	33	
Designed	Eng check	S. WHITE	
Drawn	Coordination	K. MORGAN	
Dwg check	Approved	K. MORGAN	
Scale at ANSI D	Status	Rev	Security
AS NOTED	BID	0	STD

Drawing Number
C-13

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Client
Okaloosa County Board of County Commissioners

Title
Veterans Park East Lobe Expansion
CROSS SECTIONS - PROPOSED WALKWAY

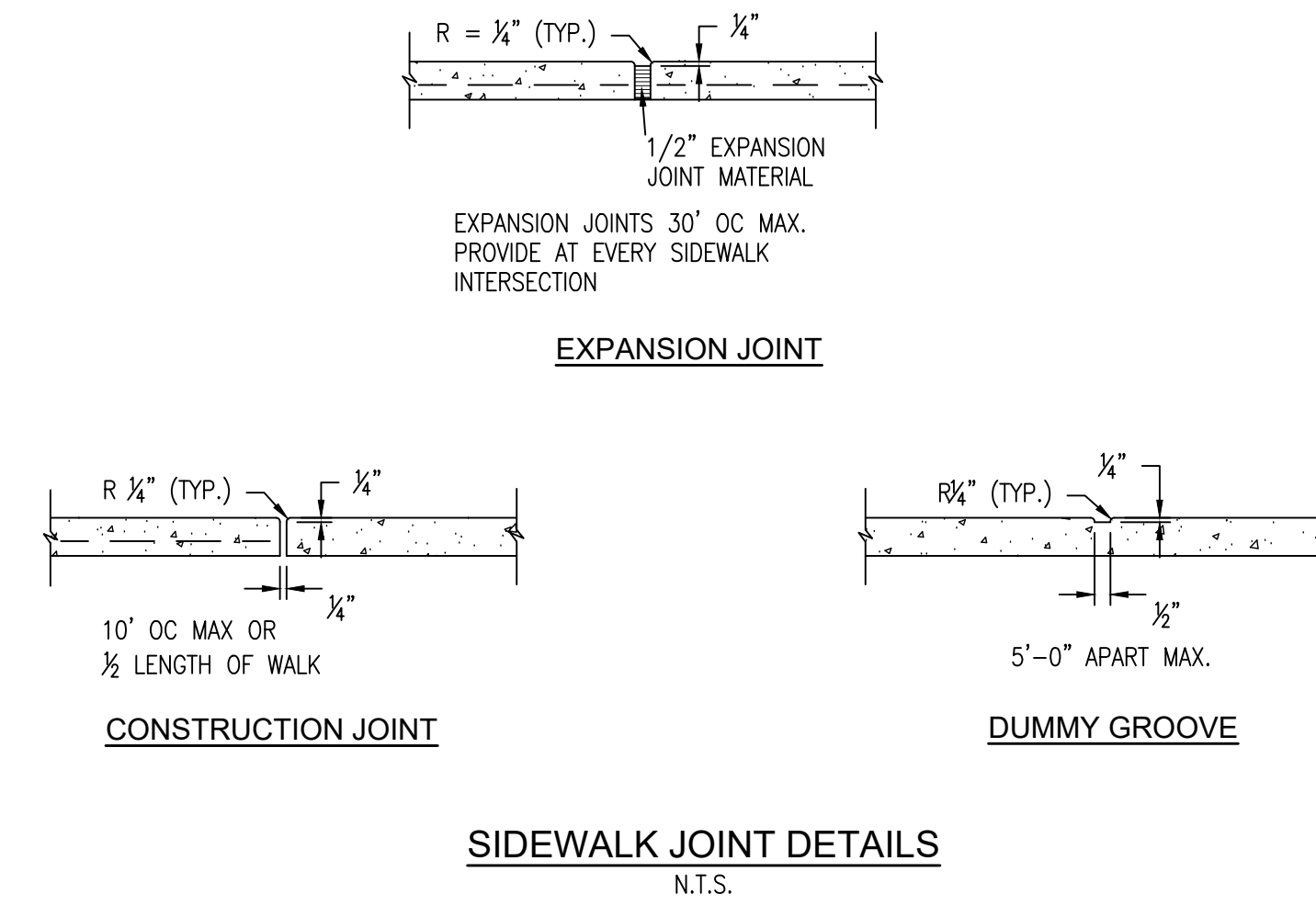
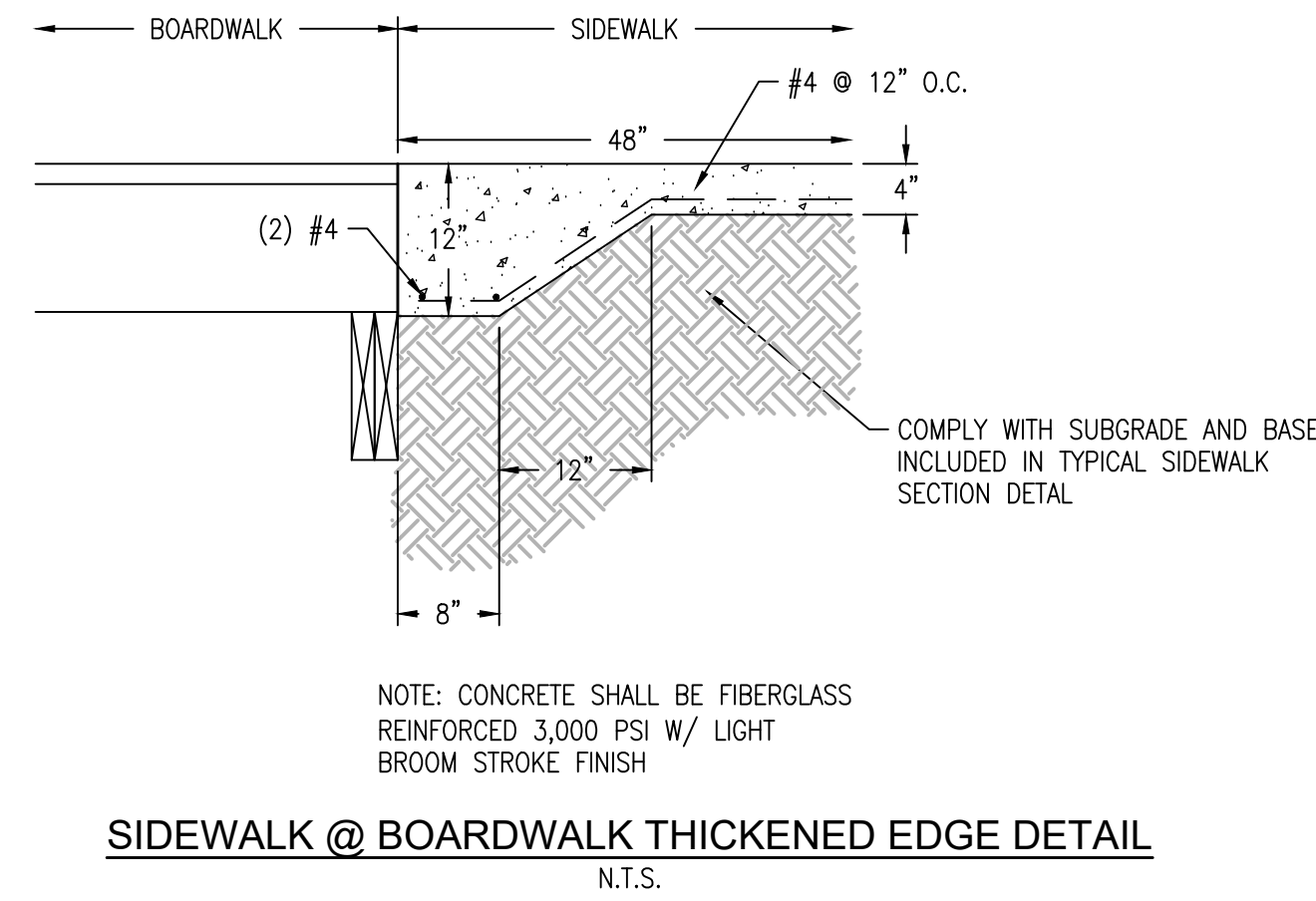
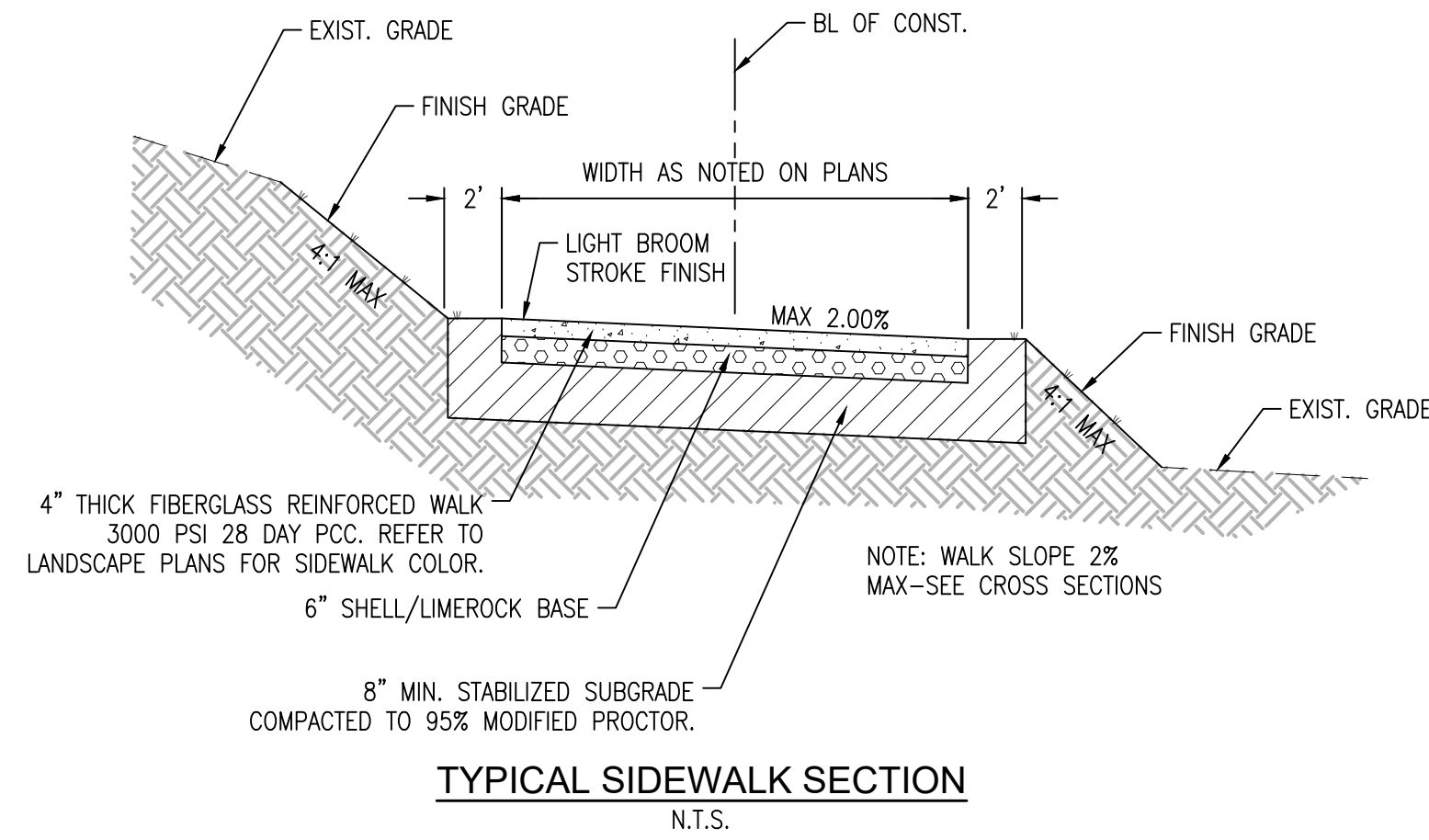
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Project Number 502101659-011	B/O 14	Total 33
Designed K. MORGAN	Eng check S. WHITE	
Drawn C. RILEY	Coordination K. MORGAN	
Dwg check	Approved K. MORGAN	
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		Security STD

Drawing Number
C-14

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NOTES:

- NO FILL, BASE OR SOIL MATERIALS SHALL CONTAIN RED AND YELLOW CLAY, UNCLEAN SAND, OR SIMILAR MATERIALS CONTAINING DISCOLORING PARTICLES. FURTHER, ONLY WHITE OR OFF WHITE MATERIALS WITH SIMILAR COLOR TO NATIVE SANDS SHALL BE ACCEPTABLE. ACCEPTABLE MATERIALS SHALL BE DETERMINED BY THE BUILDING OFFICIAL.
- SEE PLANS FOR COLORED CONCRETE SIDEWALK. COLORED SIDEWALK SHALL BE SIKACOLOR-100P INTEGRAL COLOR C-15 COACHELLA SAND.

Rev	Date	Drawn	Description	Ch'k'd	App'd
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Architects Engineers Surveyors
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Client
Ocala County Board of County Commissioners

Title
Veterans Park East Lobe Expansion

DETAILS

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Project Number 502101659-011	B/O 16	Total 33
Designed K. MORGAN	Eng check S. WHITE	
Drawn C. RILEY	Coordination K. MORGAN	
Dwg check	Approved K. MORGAN	
Scale at ANSI D AS NOTED	Status BID	Rev 0
		Security STD

Drawing Number
C-16

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GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, NATIONAL ELECTRIC SAFETY CODE, N.F.P.A., O.S.H.A. REGULATIONS AND ALL OTHER EXISTING CODES AND REGULATIONS OF AUTHORITIES WHICH HAVE JURISDICTION.
- THE CONTRACT DRAWINGS ARE DIAGRAMMATIC IN NATURE AND NOT EVERY DETAIL OR CONDUIT IS SHOWN. EXISTING CONDITIONS AND DIMENSIONS SHALL BE VERIFIED IN THE FIELD BEFORE COMMENCING ANY FABRICATION, ORDERING ANY MATERIAL, OR PERFORMING ANY WORK. ANY DEPARTURE FROM CONCEPT SHOWN ON THE CONTRACT DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. ALL ELECTRICAL EQUIPMENT SHOWN ON THE DRAWINGS AND/OR REQUIRED FOR THE FULL INTEGRITY OF THE CONTRACT SHALL BE FURNISHED, INSTALLED AND CONNECTED BY THE CONTRACTOR, EXCEPT WHERE EQUIPMENT SHOWN IS IDENTIFIED AS "EXISTING" OR OTHERWISE NOTED ON THE DRAWINGS.
- UNLESS OTHERWISE NOTED, EQUIPMENT AND MATERIALS TO BE PROVIDED SHALL BEAR LISTING AND LABELING BY A NATIONALLY RECOGNIZED TESTING AGENCY WHERE SUCH STANDARD HAD BEEN ESTABLISHED FOR THAT TYPE OF EQUIPMENT/MATERIAL.
- THE CONTRACTOR SHALL SUBMIT DETAILED EQUIPMENT LAYOUT PLANS, SECTIONS, AND MOUNTING DETAILS SHOWING PROPOSED LOCATION OF ALL EQUIPMENT AND REQUIRED WORKING/SERVICE CLEARANCES PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL VISIT THE PROJECT SITE AND EXAMINE AND CONFIRM EXISTING CONDITIONS. ALL CHANGES SHALL BE PRESENTED DURING SHOP DRAWING SUBMITTALS FOR ENGINEER'S APPROVAL.
- CONDUITS SHALL CONTAIN AN INSULATED GROUND WIRE BONDED TO ENCLOSURES AND SIZED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEC, IF SIZE IS NOT SHOWN ON THE CONTRACT DRAWINGS.
- THE CONTRACTOR SHALL PROVIDE CONDUIT FITTINGS, CONNECTORS, CLAMPS, HARDWARE, HANGERS, AND SUPPORTS AS NECESSARY FOR A COMPLETE INSTALLATION.
- THE CONTRACTOR SHALL PROVIDE TAGS FOR EQUIPMENT, CONDUITS, AND CABLES THAT ARE INSTALLED UNDER THIS CONTRACT. TAG IDENTIFICATIONS SHALL BE IN ACCORDANCE WITH CONTRACT DRAWINGS. TAGS FOR CONDUITS SHALL BE AS DESCRIBED IN SPECIFICATIONS.
- UNUSED OPENINGS IN CONDUITS, BOXES, DISCONNECT SWITCHES, CABINETS, AND PANEL BOARDS SHALL BE CAPPED OR PLUGGED.
- UPDATE EXISTING PANELBOARD DIRECTORIES TO REFLECT THE CIRCUITING IN EXISTING PANELBOARDS AFFECTED BY THIS ALTERATION.
- CONTRACTOR SHALL PROVIDE THE NECESSARY MATERIALS, LABOR AND ATTENDANCE FOR THE OPERATION OF TEMPORARY LIGHT AND CONSTRUCTION POWER AS REQUIRED DURING WORKING HOURS FOR THE ENTIRE CONSTRUCTION PERIOD.
- CONTRACTOR SHALL MAINTAIN CONTINUITY OF ANY EXISTING CIRCUITS AFFECTED BY THIS ALTERATION. RECONNECT ALL ALTERED OR REROUTED WORK TO ITS FULLY FUNCTIONAL STATE PRIOR TO ALTERATION.
- PROVIDE ALL NECESSARY TEMPORARY WIRING TO MAINTAIN EXISTING INSTALLATIONS WHICH MUST REMAIN IN SERVICE DURING CONSTRUCTION PERIOD.
- ALL BRANCH CIRCUITS OVER 75 FEET IN LENGTH SHALL BE RUN WITH #10 CONDUCTOR, UNLESS OTHERWISE NOTED.
- SCHEDULE ALL DISCONNECTION AND INTERRUPTIONS OF ELECTRICAL SERVICE, COMMUNICATIONS AND SUPERVISORY SYSTEMS WITH THE OWNER AND ENGINEER.
- CONTRACTORS SHALL FOLLOW ALL OWNER SITE SAFETY WORK PROCESSES AND PROCEDURES. FOR EXAMPLE, WORK PERMITS, SAFETY TASK ANALYSES, LOCKOUT TAGOUT (LOTO), LOCK, TAG AND TRY, AND RED TAG, ETC.
- CONTRACTORS SHALL COORDINATE ALL WORK ACTIVITIES WITH OPERATIONS, MAINTENANCE, AND OTHER CONTRACTORS.
- UNLESS SPECIFICALLY NOTED, ALL ELECTRICAL EQUIPMENT (GENERATORS, AUTOMATIC TRANSFER SWITCHES, PANELBOARDS, MOTOR CONTROLLERS, WIRE, PANELBOARDS, SWITCHBOARDS, DISCONNECTS, LIGHTING, INSTRUMENTS, CONTROL PANELS, MOTOR, ETC.) THAT MAY BE SHOWN AS TO BE REMOVED ARE THE PROPERTY OF THE OWNER AND SHALL BE RETURNED TO THE OWNER.

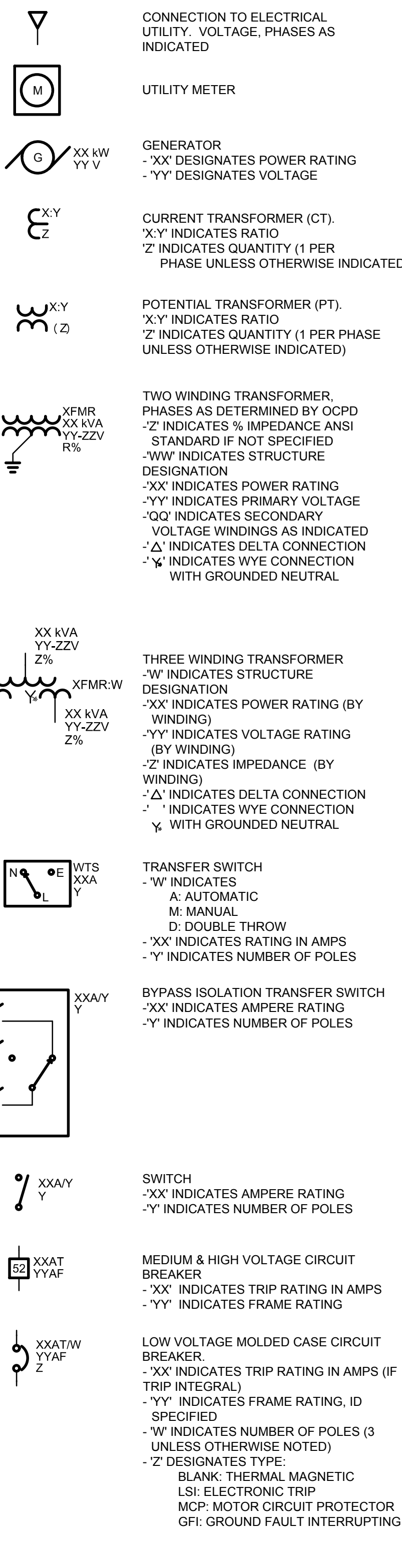
ABBREVIATIONS

A OR AMP AMPERES
 ACT ABOVE COUNTER TOP (6")
 AF AMP FRAME
 AFF ABOVE FINISHED FLOOR
 AHU AIR HANDLING UNIT
 AIC AMPERE INTERRUPTING CAPACITY
 AM AMMETER
 APPROX APPROXIMATELY
 AS AMMETER SELECTION SWITCH
 ASYM ASYMMETRICAL
 AT AMP TRIP
 ATC AUTOMATIC TRANSFER CONTROLLER
 ATC AUTOMATIC TRANSFER SWITCH
 AUX AUXILIARY
 AWG AMERICAN WIRE GAUGE
 BC BARE COPPER
 BLDG BUILDING
 C CONDUIT
 C, CDT CONDUIT
 C, /C CONDUCTOR
 CB CIRCUIT BREAKER
 CKT CIRCUIT
 CLF CURRENT LIMITING FUSE
 CO COMPANY
 COL COLUMN
 CNTL CONTROL
 CSLD CONTINUOUS STATISTICAL LEAK DETECTION
 CT CURRENT TRANSFORMER
 CU CABLE
 D DEPTH
 DIA DIAMETER
 DS OR DISC DISCONNECT SWITCH
 DWG(S) DRAWING(S)
 ELEC ELECTRIC, ELECTRICAL
 EM EMERGENCY
 EMT ELECTRICAL METALLIC TUBING
 ESTOP EMERGENCY STOP
 EX, EXIST. EXISTING
 EXP EXPLOSION PROOF
 EF EXHAUST FAN
 EG EQUIPMENT GROUND
 EGC EQUIPMENT GROUND CONDUCTOR
 ETC ET CETERA
 EXIST EXISTING
 F FUSE
 FCR FLOOR CONTROL RELAY
 FL, FLR FLOOR
 FT FEET
 G OR GND GROUND
 GA GAUGE
 GALV GALVANIZED
 GEC GROUNDING ELECTRODE CONDUCTOR
 GEN GENERATOR
 GF GROUND FAULT
 GFCI GROUND FAULT CIRCUIT INTERRUPT
 GFI GROUND FAULT INTERRUPTING
 H-O-A HAND-OFF-AUTOMATIC
 HP HORSEPOWER
 HVAC HEATING, VENTILATION & AIR
 IG ISOLATED GROUND
 ISBR INTRINSICALLY SAFE BARRIER RELAY
 IMC INTERMEDIATE METAL CONDUIT
 IN INCH
 IR INFRARED
 ISCA INSTANTANEOUS SHORT CIRCUIT AVAILABLE
 JB OR J JUNCTION BOX
 KVA KILOWOLT - AMPS
 KW KILOWATTS
 KWH KILOWATT-HOUR
 L LENGTH
 LA LIGHTNING ARRESTOR
 LFMC LIQUIDTIGHT FLEXIBLE METAL CONDUIT
 LTG LIGHTING
 MAX MAXIMUM
 MCB OR MB MAIN CIRCUIT BREAKER
 MCC MOTOR CONTROL CENTER
 MECH MECHANICAL
 MER MECHANICAL EQUIPMENT ROOM
 MFR MANUFACTURER
 MH OR MTG MOUNTING HEIGHT
 MIN MINIMUM
 MLO MAIN LUGS ONLY
 MTD MOUNTED
 N NEUTRAL
 NC NORMALLY CLOSED
 NEC NATIONAL ELECTRICAL CODE
 NEMA NATIONAL ELECTRICAL MFRS ASSOCIATION
 NF NON-FUSIBLE
 NFPA NATIONAL FIRE PROTECTION ASSOCIATION
 No. NUMBER
 NO NORMALLY OPEN
 NTS NOT TO SCALE
 O.C. ON CENTER
 OCPD OVERCURRENT PROTECTIVE DEVICE
 OF OVERFILL
 OHE OVERHEAD ELECTRICAL
 OSHA OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
 P POLE
 PERM PERMANENT
 PFC POWER FACTOR CAPACITOR
 PH, Ø PHASE
 PLC PROGRAMMABLE LOGIC CONTROLLER
 PNL PANEL
 PR PAIR

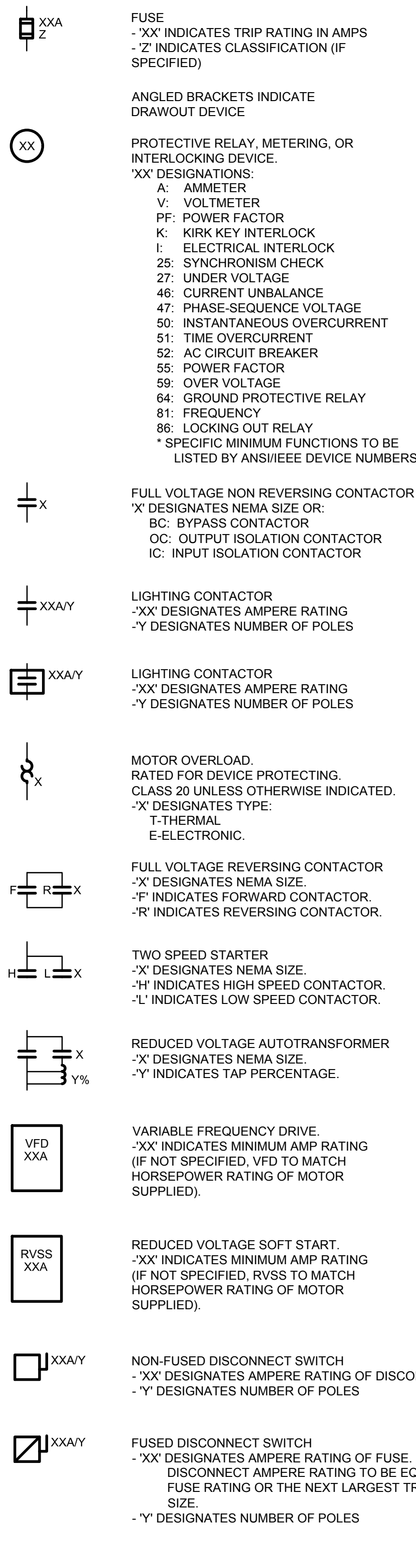
ABBREVIATIONS

PVC POLYVINYLCHLORIDE CONDUIT
 PWR POWER
 R&R REMOVE AND RELOCATE
 R RELOCATE
 RE RELOCATED
 RECEPT RECEPTACLE
 REF REFERENCE
 RGS RIGID GALVANIZED STEEL
 RMS ROOT MEAN SQUARE
 SE SERVICE ENTRANCE
 SF SEAL FITTING
 SH SHIELDED
 SS STAINLESS STEEL
 SPD SURGE PROTECTION DEVICE
 SW SWITCH
 SWBD SWITCHBOARD
 SYM SYMMETRICAL
 TEL TELEPHONE
 TWS TWISTED INDIVIDUAL SHIELD
 TWS/TWOS TWISTED OUTER SHIELD
 TYP TYPICAL
 UG UNDERGROUND
 UL UNDERWRITER'S LABORATORIES
 UV ULTRAVIOLET
 V VOLTS
 VA VOLT AMPS
 VAC VOLTS ALTERNATING CURRENT
 VDC VOLTS DIRECT CURRENT
 VFD VARIABLE FREQUENCY DRIVE
 VM VOLTMETER
 VMS VOLTMETER SELECTOR SWITCH
 W WATT
 WITH WITH
 W/O WITHOUT
 WM WATTMETER
 WP WEATHER PROOF
 XFMR TRANSFORMER

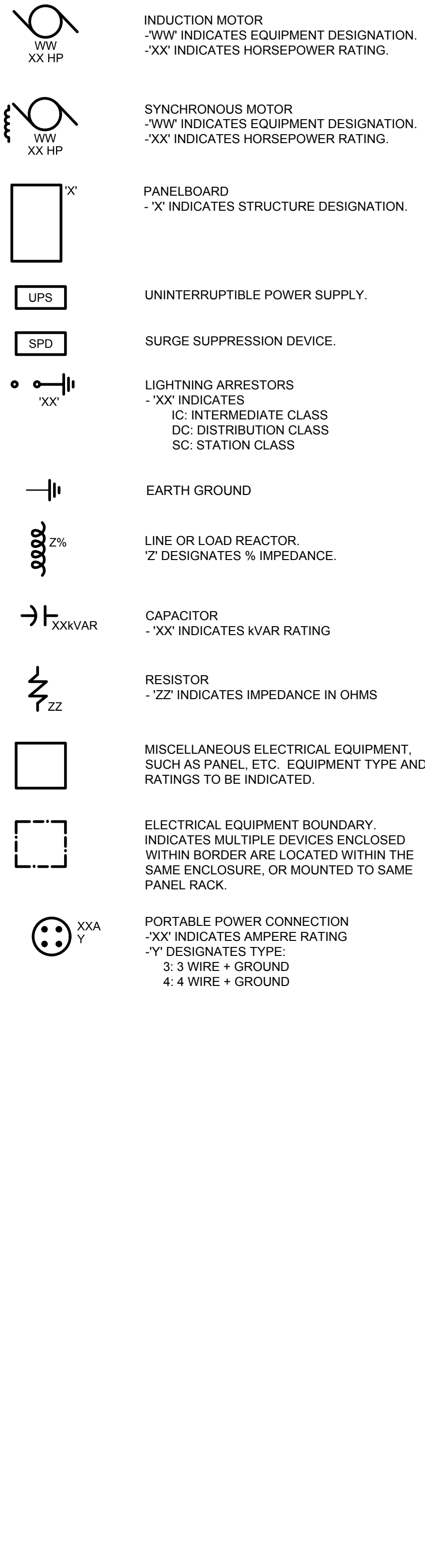
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ONE-LINE DIAGRAM



ONE-LINE DIAGRAM



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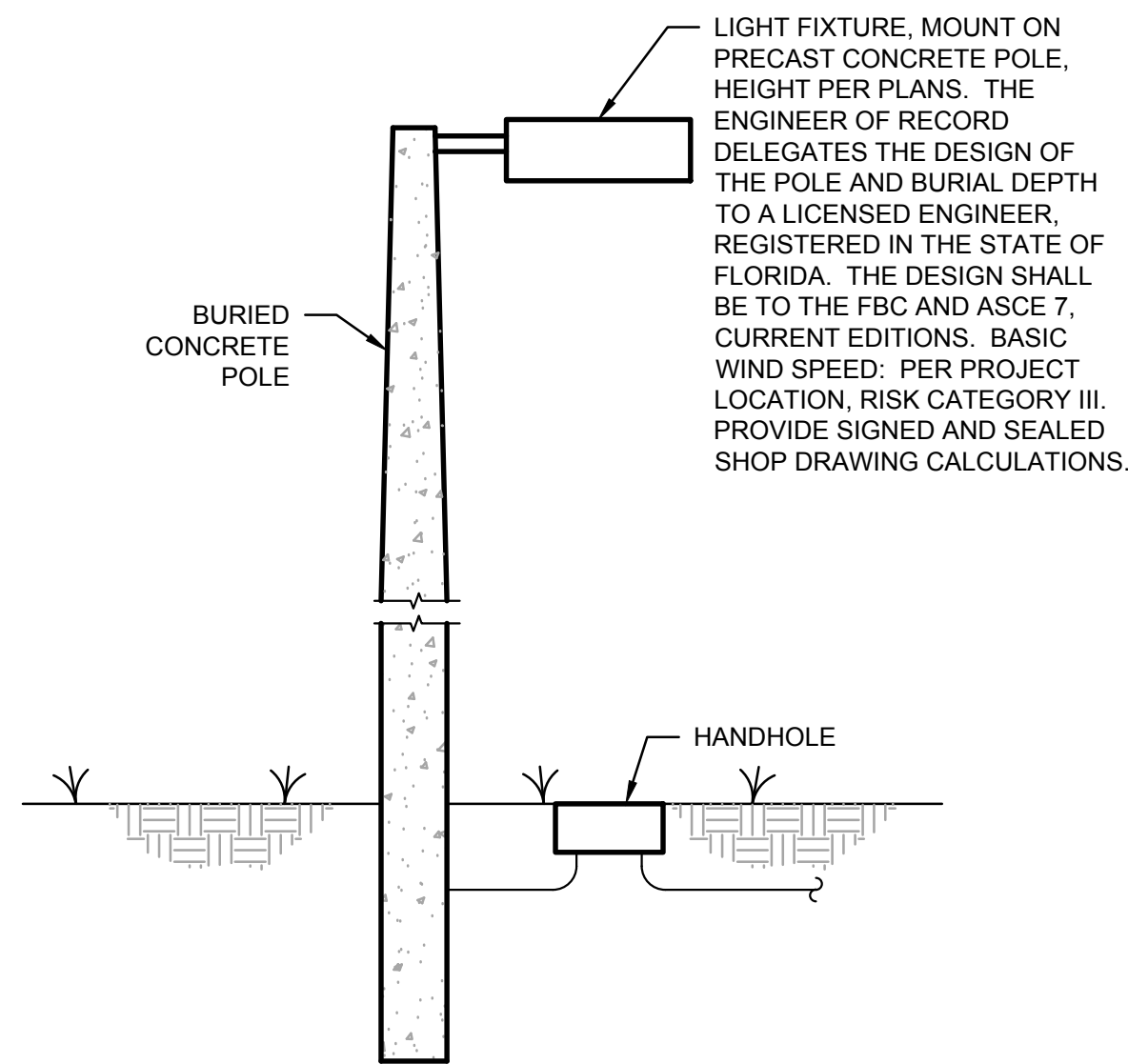
Title
Veterans Park East Lobe Expansion

ELECTRICAL LEGEND, ABBREVIATIONS AND NOTES 1

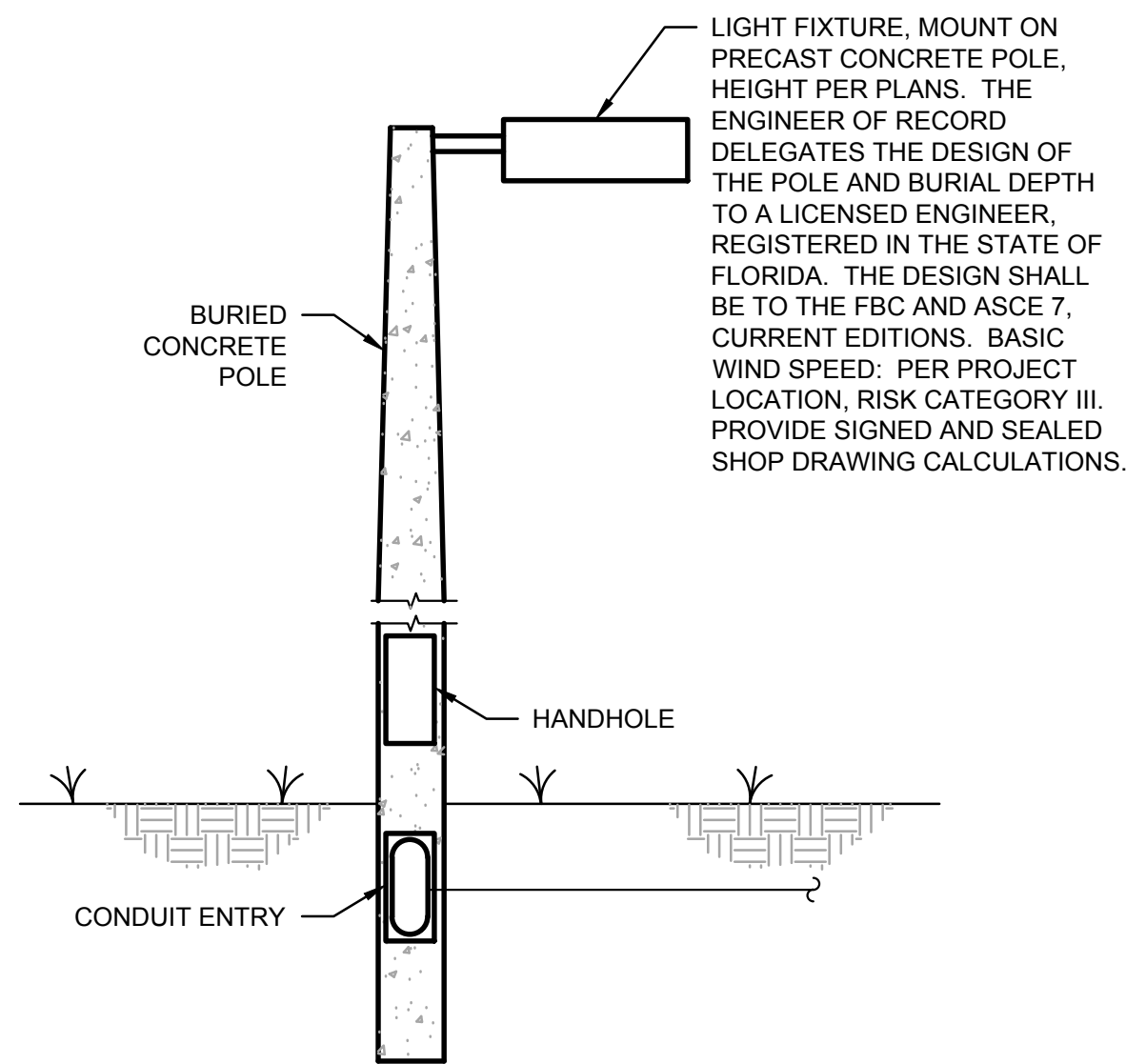
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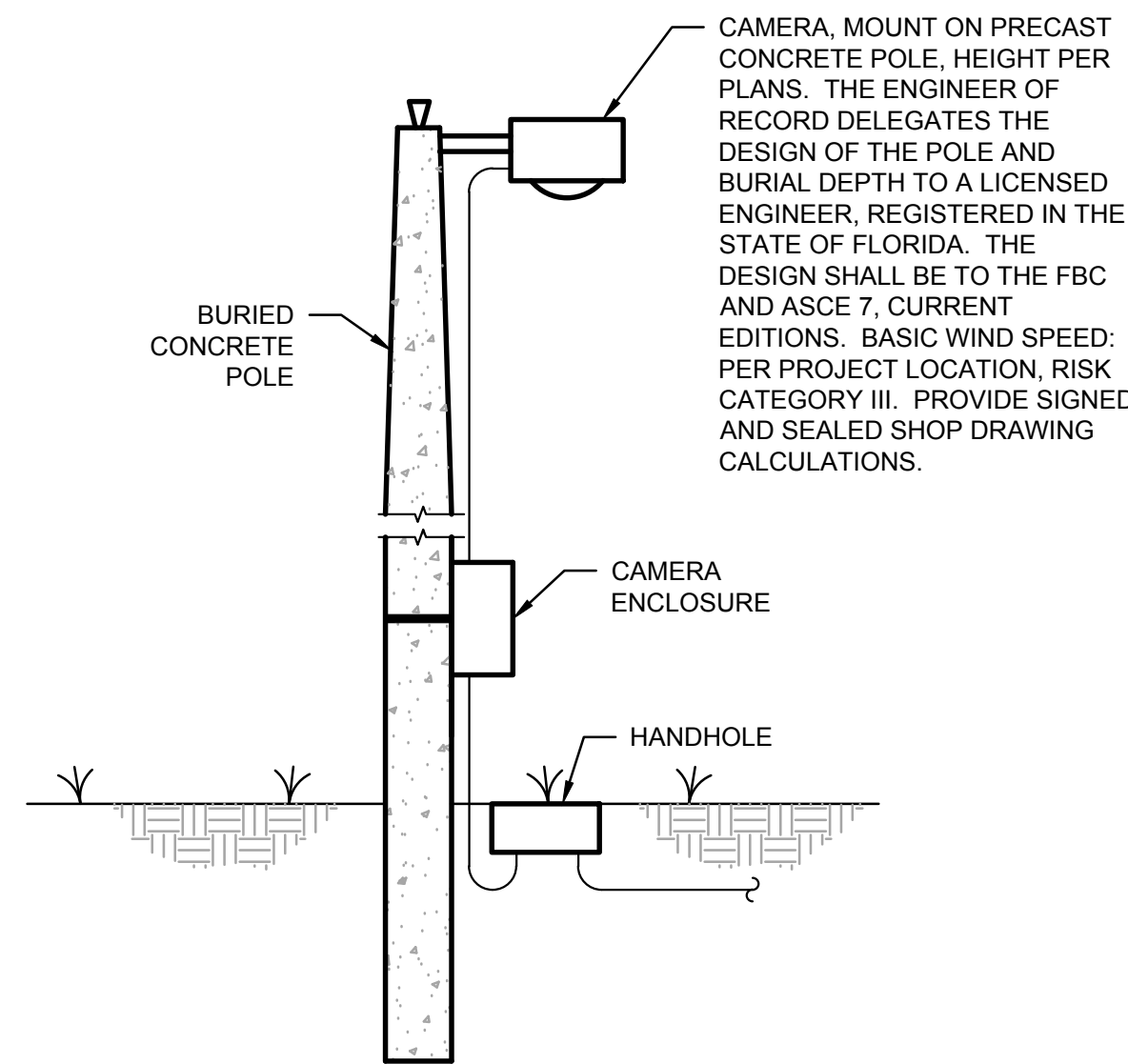
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Designed R. FERREIRA	Eng check H. ERSKINE	M. KERR
Drawn H. ERSKINE	Coordination A. GIBBS	
Dwg check C. CIFUENTES	Approved A. GIBBS	
Scale at ANSI D AS NOTED	Status BID	Rev 0
Drawing Number		Security STD



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NO SCALE



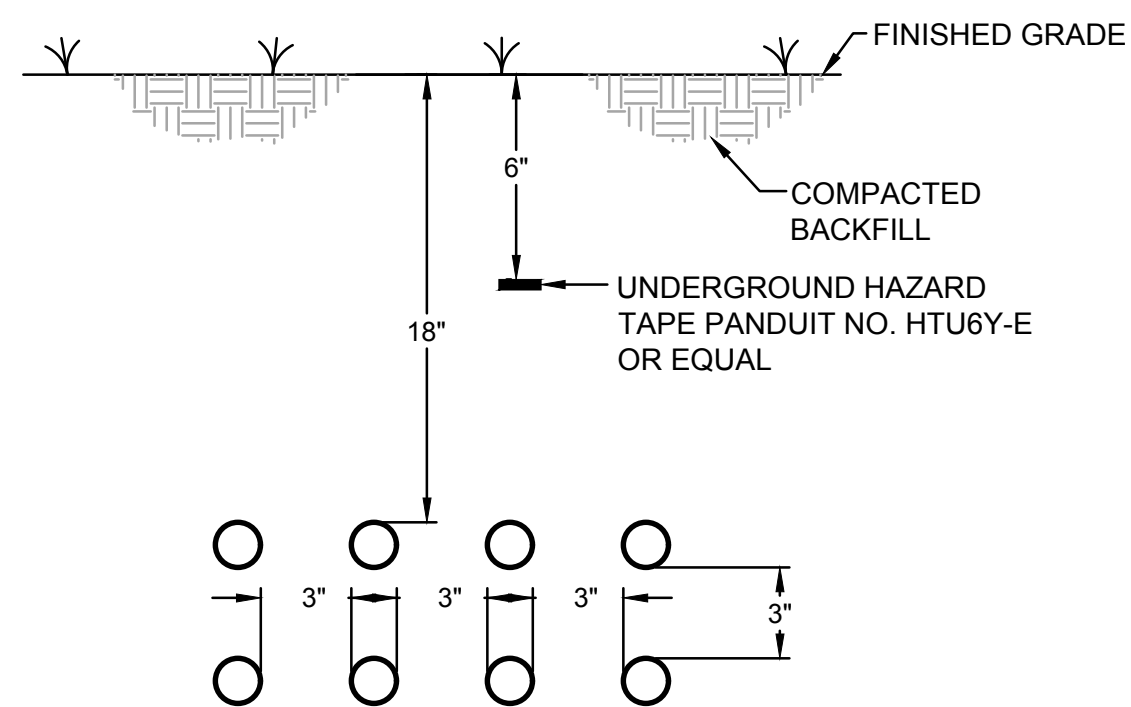
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CAMERA POLE DETAIL
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GENERAL NOTES:

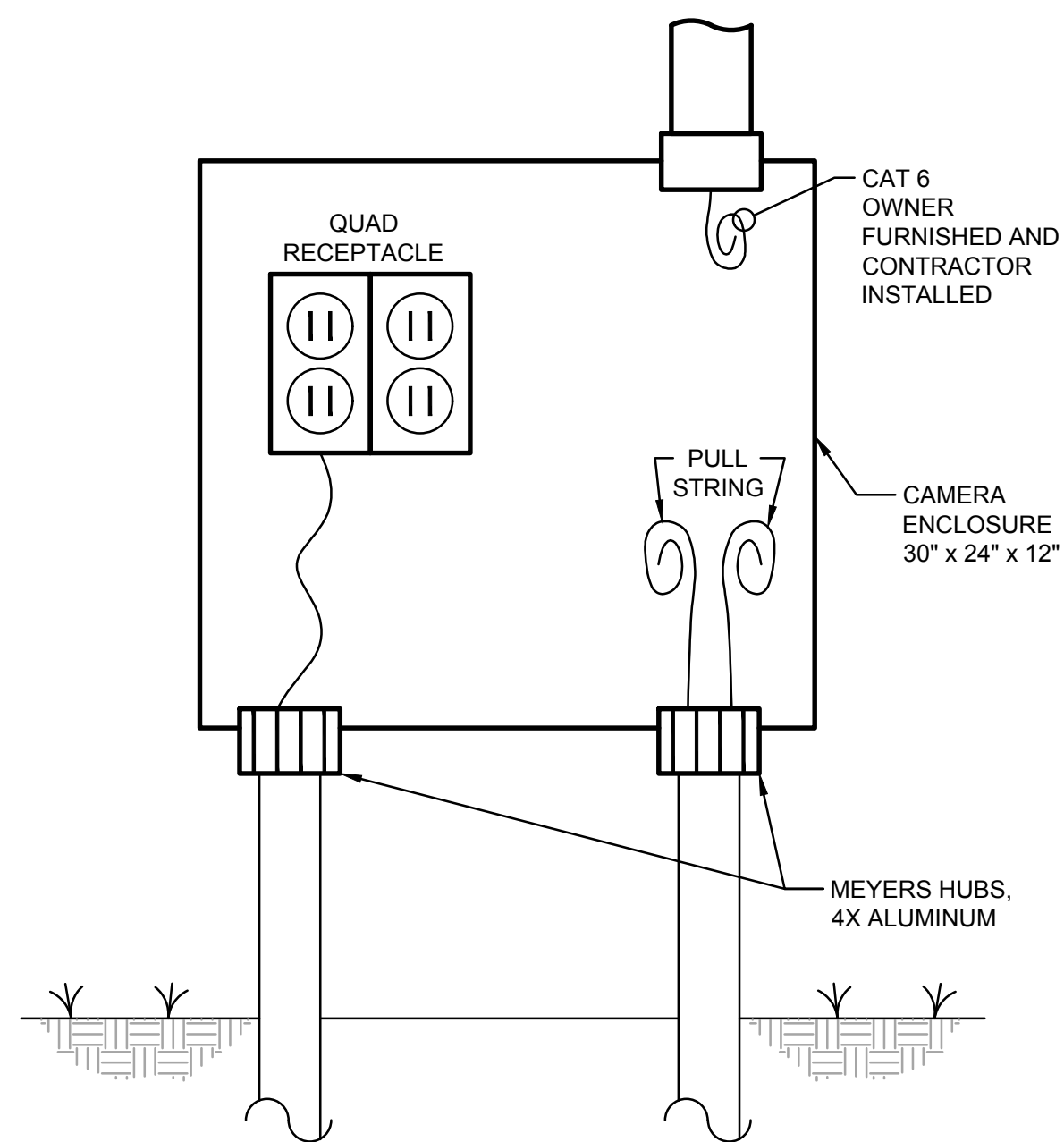
1. ALUMINUM TUBES SHALL BE 6063-T6 WITH A MINIMUM YIELD STRENGTH OF 35 KSI.
2. ALUMINUM PLATES SHALL BE 5052 WITH A MINIMUM YIELD STRENGTH OF 20 KSI.
3. ALL WELDS SHALL BE IN ACCORDANCE WITH STRUCTURAL WELDING CODE - ALUMINUM (AWS D1.2).
4. ALL FASTENERS SHALL BE 316 SS OR ALUMINUM RIVETS.
5. ALL ELECTRICAL BOXES SHALL BE 316 SS OR COATED AS REQUIRED TO PREVENT REACTION WITH ALUMINUM.
6. CONCRETE FOUNDATION TO BE 12" THICK, 3000PSI AND SIZED 24" LARGER THAN PANEL IN EACH DIRECTION
7. RACK SHALL BE SIZED IN FIELD PER EQUIPMENT DIMENSIONS



DIRECT BURIED CONDUIT INSTALLATION
NO SCALE

NOTES:

1. CONDUITS INSTALLED UNDERGROUND SHALL BE PROVIDED WITH CARLON "SNAP-N-STAC" COMBO SPACERS DESIGNED TO PROVIDE 3" CONDUIT SEPERATION. SPACERS SHALL BE INSTALLED PER MFG. RECOMMENDATIONS.
2. CONDUIT SEPERATION MAY BE REDUCED TO 1-1/2" WITHIN 10' OF HANDHOLE/MANHOLE PROVIDED "FLOWABLE FILL" IS USED AROUND CONDUIT FOR COMPACTION.



CAMERA ENCLOSURE DETAIL
NO SCALE



30" x 24"NEMA 4X ALUMINUM ENCLOSURE, WITH OPTIONAL PANEL : AUSTIN ELECTRICAL ENCLOSURES

DESCRIPTION
AUSTIN NEMA 4X ALUMINUM ENCLOSURES ARE UNDERWRITERS LABORATORIES LISTED AND ARE DESIGNED FOR USE PRIMARILY TO PROVIDE A DEGREE OF PROTECTION AGAINST WINDBLOWN DUST AND RAIN, SPLASHING WATER, HOSE DIRECTED WATER AND DAMAGE FROM EXTERNAL ICE FORMATION.

FINISH
AUSTIN NEMA 4X ALUMINUM ENCLOSURES ARE PROVIDED STANDARD IN TYPE 5052-H32 ALUMINUM.

CONSTRUCTION
FABRICATED IN ACCORDANCE WITH UL SPECIFICATIONS FORM TYPE 5052-H32 ALUMINUM. ALL SEAMS CONTINUOUSLY WELDED AND GROUND SMOOTH. ROLLED LIP AROUND THREE SIDES OF DOOR AND ALL SIDES OF DOOR OPENING FOR WATERTIGHT SEAL. NEOPRENE GASKET ATTACHED TO DOOR WITH OIL RESISTANT ADHESIVE. CLAMPS ON THREE SIDES OF DOOR FOR WATERTIGHT SEAL. ALUMINUM CONTINUOUS HINGE. STAINLESS STEEL EXTERNAL HARDWARE. HASP AND STAPLE PROVIDED FOR PADLOCKING. EXTERNAL MOUNTING FEET. STANDARD PLASTIC SELF-ADHESIVE PRINT POCKET. STANDARD COLLAR STUDS FOR MOUNTING OPTIONAL PANEL, OPTIONAL PANEL REQUIRED.

Rev	Date	Drawn	Description	Ch'k'd	App'd

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AA - C0000035 EB - 0000155 LB - 0006783

Client
Ocala County Board of County Commissioners

Title
Veterans Park East Lobe Expansion
ELECTRICAL DETAILS

ISSUED FOR BID

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Drawn H. ERSKINE	Coordination A. GIBBS	
Dwg check C. CIFUENTES	Approved A. GIBBS	
Scale at ANSI D AS NOTED	Status BID	Rev 0
Security STD	Drawing Number E-5	

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PLANTING SCHEDULE					
SYM	QTY	BOTANICAL NOMENCLATURE	COMMON NAME	SIZE	SPACING/REMARKS
TREES					
QV	14	QUERCUS VIRGINIANA	LIVE OAK	FG	4" CAL, 16' HT X 6'-7" SPR
SP	8	SABAL PALMETTO 'REGENERATED ROOTS'	CABBAGE PALM	FG	12'-20" CT, STRAIGHT TRUNK
SHRUBS					
IV	50	ILEX VOMITORIA 'NANA'	DWARF YAUPON HOLLY	3 GAL	12" HT X 15" SPR, 36" OC
LL	295	LOMANDRA LONGIFOLIA	BREEZE	3 GAL	18" HT X 15" SPR, 36" OC
MC	414	MUHLENBERGIA CAPILLARIS	PINK MUHLY GRASS	3 GAL	18" HT X 15" SPR, 36" OC
TF	66	TRIPSACUM FLORIDANUM	DWARF FAKAHATCHEE GRASS	3 GAL	18" HT X 15" SPR, 48" OC
VO	87	VIBURNUM OBOVATUM 'DENSEA'	DWARF WALTER'S VIBURNUM	3 GAL	12" HT X 14" SPR, 36" OC
GROUND COVER					
AG	254 SY	ARACHIS GLABRATA 'ECOTURF'	PERENNIAL PEANUT	-	12" X 24" RECTANGLES
CC	261	CONRADINA CANESCENS	FALSE ROSEMARY	1 GAL	24" OC
HD	418	HELIANTHUS DEBILIS	BEACH SUNFLOWER	1 GAL	30" OC, MIN 3 RUNNERS
UP	77	UNIOLA PANICULATA	SEA OATS	1 GAL	24" OC
WFM	126		BLACK EYED SUSAN, BLANKET FLOWER, ASTOR & CALAMINT SPECIES W/ STRAW MULCH	1 GAL	10" - 18" OC
			MULCH		PINE STRAW
			SELECTIVE CLEARING		SEE PLAN NOTES

SELECTIVE CLEARING KEY

AREA A - MODERATE CLEARING INCLUDING SHAPING OF LARGER VEGETATION

AREA B - TREE PRUNING FOR VIEW IMPROVEMENTS (OAKS & PALMS)

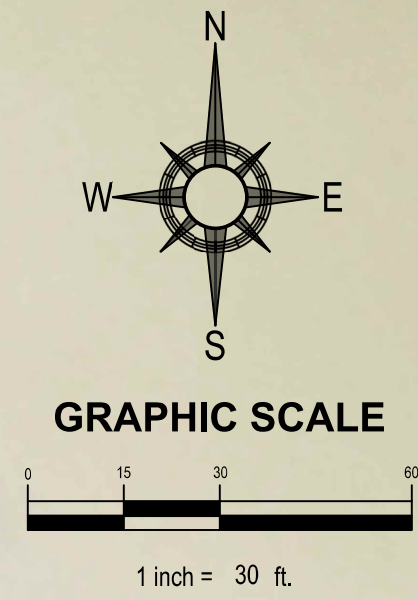
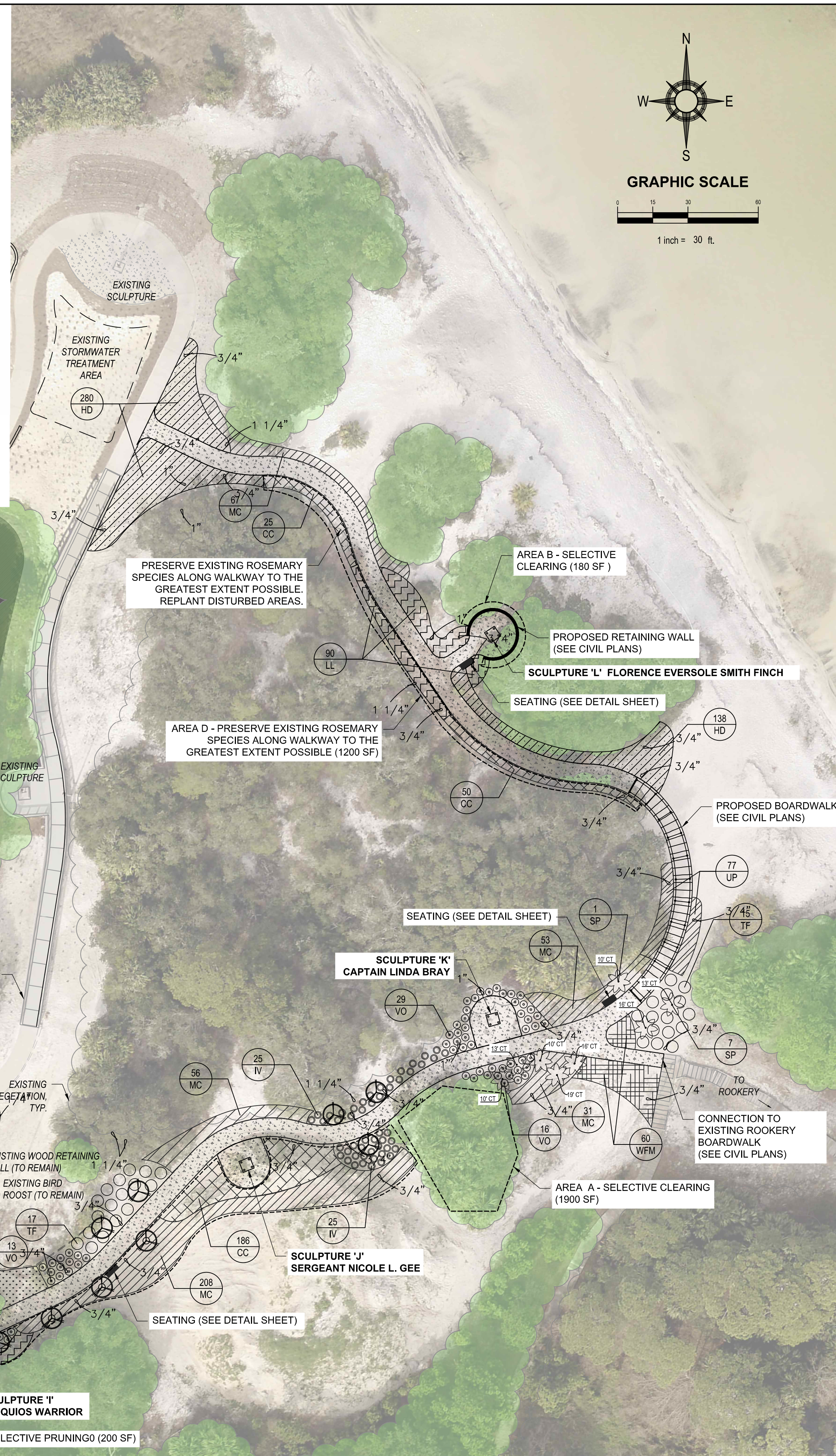
AREA C - SITE PREPARATION AND FINISH GRADING FOR NEW PLANTINGS

AREA D - PRESERVE EXISTING ROSEMARY SPECIES TO THE GREATEST EXTENT POSSIBLE

* OTHER SITE CLEARING, PREPARATION AND FINISH GRADING FOR PLANTING/STATUTE AREAS PER SITE SPECIFICATIONS NOTES, SHEET L-3.

LANDSCAPE ABBREVIATION KEY

- CAL - CALIPER
- CT - CLEAR TRUNK
- FG - FIELD GROWN
- GAL - GALLON
- HT - HEIGHT
- SPR - SPREAD
- OC - ON CENTER



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Rev	Date	Drawn	Description	Ch'k'd	App'd

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Client
**Okaloosa County
Board of County Commissioners**

Title
**Veterans Park East Lobe Expansion
LANDSCAPE PLAN**

ISSUED FOR BID
**THIS DRAWING IS NOT FOR
CONSTRUCTION**

Project Number	502101659-011	B/O	2	Total	31
Designed	G. TULLO-WILLIAMS	Eng check			
Drawn		Coordination			
Dwg check		Approved			
Scale at ANSI D	AS NOTED	Status	BID	Rev	0
Security					STD
Drawing Number	L-1				

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LANDSCAPE SPECIFICATIONS

1. SCOPE OF WORK
 - A. THE WORK CONSISTS OF: FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THE DRAWINGS, AS INCLUDED IN THE PLANT LIST, AND AS HEREIN SPECIFIED.
 - B. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL CONTRACT PLANTING AREAS AS UNTIL CERTIFICATION OF ACCEPTABILITY BY THE COUNTY.
2. PROTECTION OF EXISTING STRUCTURES
 - A. ALL EXISTING WALKS, WALLS, PAVING, PIPING, OTHER SITE CONSTRUCTION ITEMS, AND PLANTING ALREADY COMPLETED OR ESTABLISHED SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM NEGLIGENCE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE COUNTY, AT NO COST TO THE COUNTY.
 - B. WORK WITHIN 15 FT OF EXISTING TREES TO REMAIN SHALL BE PERFORMED BY HAND. ANY DISTURBED ROOTS SHALL BE SEVERED USING CLEAN, SHARP TOOLS.
3. MATERIALS
 - A. SUBMIT PRODUCT SAMPLES AND DATA SHEETS FOR ALL PROPOSED MATERIALS, INCLUDING BUT NOT LIMITED TO PLANT MATERIAL, STAKING AND BRACING KITS, MYCORRHIZAL SOIL INOCULATE, FERTILIZER, MULCH, AND "BLENDED SOIL" FOR REVIEW AND WRITTEN APPROVAL BY THE LANDSCAPE ARCHITECT. PLANT PHOTOS PRIOR TO SITE DELIVERY MAY BE ACCEPTABLE.
 - B. ALL PLANT MATERIAL SHALL BE FLORIDA GRADE NO. 1 OR BETTER AS SPECIFIED IN GRADES AND STANDARDS FOR NURSERY PLANTS PART I AND II, DIVISION OF PLANT INDUSTRY, FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, LATEST EDITION, AND SHALL CONFORM TO CURRENT AMERICAN ASSOCIATION OF NURSERMEN STANDARDS FOR NURSERY STOCK.
 - C. CONTAINER GROWN PLANTS: A MINIMUM OF 80% OF THE CONTAINER ROOTBALL MUST BE BOUND BY THE ROOT SYSTEM. ENCIRCLING OR "RING" ROOTS ARE PROHIBITED AND PLANTS WILL BE REJECTED.
 - D. THE FOLLOWING SHALL APPLY TO REGENERATED ROOT SABAL PALMS:
 - a. PALMS WILL HAVE NEW REGENERATED ROUND TIPPED ROOTS THAT HAVE EMERGED FROM THE ROOT INITIATION ZONE AND ARE WHITISH-YELLOW IN COLOR WITH TAPERED ENDS.
 - b. NEW REGENERATED ROOTS ARE PRESENT ON ALL SIDES OF THE ROOTBALL.
 - c. PALMS SHALL HAVE BEEN PLACED IN CONTAINERS OR CONTAINED WITHIN PLASTIC FABRIC OR FILM MATERIAL AFTER HARVESTING AND DURING THE ROOT REGENERATION PERIOD.
 - d. PALMS WILL HAVE A MINIMUM OF THREE FULLY EXPANDED FRONDS. FRONDS SHALL MEET THE MINIMUM REQUIREMENTS TO BE CONSIDERED "EXCELLENT LEAVES," AS DEFINED BY THE GLOSSARY OF TERMS IN THE LATEST EDITION OF GRADES AND STANDARDS FOR NURSERY PLANTS - PALMS & CYCADS (FLORIDA DEPT. OF AGRICULTURE AND CONSUMER SERVICES).
 - E. AS PART OF THE CONTRACTOR'S RESPONSIBILITY TO ENSURE LONG TERM HEALTH AND VIABILITY OF PLANT MATERIAL, DETERMINE, AT A MINIMUM, SITE CONDITIONS, PLANT MATERIAL AVAILABILITY, SOIL ANALYSIS/AMENDMENTS, FERTILIZER APPLICATION RATES, MYCORRHIZAL SOIL INOCULATE APPLICATION RATES AND WATERING REQUIREMENTS.
 - F. WARRANT ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF SUBSTANTIAL COMPLETION. REMOVE AND REPLACE TREES, SHRUBS OR OTHER PLANTS FOUND TO BE DEAD OR IN UNHEALTHY CONDITION DURING WARRANTY PERIOD. PLANT MISSING TREES, SHRUBS AND GROUND COVER. MAKE REPLACEMENTS DURING GROWTH SEASON FOLLOWING END OF WARRANTY PERIOD, OR AS REQUESTED BY COUNTY. FURNISH AND PLANT REPLACEMENTS WHICH COMPLY WITH REQUIREMENTS SHOWN AND SPECIFIED.
4. SOIL MIXTURE
 - A. AS A MINIMUM FOR BIDDING PURPOSES, ASSUME THE FOLLOWING CONCERNING SOIL ANALYSIS, RECOMMENDATIONS, AND AMENDMENTS:
 - A. COLLECT SOIL SAMPLES AT A MINIMUM OF THREE (3) PLANTING LOCATIONS DISTRIBUTED EVENLY THROUGHOUT THE PROJECT. SUBMIT TESTING LOCATIONS TO THE COUNTY FOR WRITTEN APPROVAL PRIOR TO TAKING SAMPLES. SEND SAMPLES TO AN AGRONOMIC SOILS TESTING LABORATORY APPROVED BY THE PROJECT ENGINEER STATING PROPOSED PLANT MATERIAL AT EACH TEST LOCATION. ANALYSIS TO INCLUDE, AT A MINIMUM, PH, NPK, ORGANIC CONTENT, TEXTURE, AND SOLUBLE SALTS. SUBMIT RESULTS/RECOMMENDATIONS AND PROPOSED FERTILIZER ANALYSIS/AMENDMENTS TO THE PROJECT ENGINEER.
 - B. "BLENDED SOIL" SHALL CONSIST OF: 1/3 MUSHROOM COMPOST OR PEAT, 1/3 COMMERCIALY PROCESSED AND COMPOSTED COW MANURE AND 1/3 COMPOSTED BARK.
5. FERTILIZER
 - A. THE FOLLOWING APPLICATION RATES ARE PROVIDED AS A RECOMMENDATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE APPROPRIATE FERTILIZER/AMENDMENTS TO ENSURE PROPER ESTABLISHMENT AND VIGOR OF PLANT MATERIAL:
 - A. ASSUME THE FOLLOWING CONCERNING FERTILIZER:
 - FOR INITIAL INSTALLATION OF TREES AND SHRUBS: FERTILIZER IS ASSUMED TO BE CONTROLLED RELEASE FERTILIZER WITH A 15-9-12 ANALYSIS AND CONTAINING TRACE ELEMENTS MG, S, B, CU, FE, MN, MO, AND ZN. FERTILIZER GRANULES TO BE COMPOSED OF DRY NUTRIENTS ENCAPSULATED IN MULTIPLE LAYERS OF POLYMERIC RESIN.
 - FOR INITIAL INSTALLATION OF PALMS: FERTILIZER IS ASSUMED TO BE 100% CONTROLLED RELEASE FERTILIZER WITH A 8-2-12 (8N-2P/20S-12K/20+4MG) ANALYSIS, AND CONTAINING TRACE ELEMENTS S, B, CU, FE, MN AND ZN. FERTILIZER GRANULES TO BE COMPOSED OF DRY NUTRIENTS ENCAPSULATED IN MULTIPLE LAYERS OF POLYMERIC RESIN. INCORPORATE FERTILIZER INTO PLANTING SOILS AND BACKFILL.

6. MYCORRHIZAL INOCULANT FOR PLANTING PITS AND SOD
 - USE AND APPLY SOIL INOCULANT PER MANUFACTURER RECOMMENDATIONS TO EACH PLANTING PIT. THE INOCULANT IS TO BE SLOW RELEASE AND CONTAIN BOTH ENDO AND ECTOMYCORRHIZAL INOCULANTS COMBINED WITH HUMIC ACIDS, TRICHODERMA, STIMULANTS, BENEFICIAL BACTERIA, SOLUBLE SEA KELP, YUCCA PLANT EXTRACTS, AND A WATER RETENTION GEL.
7. MULCH
 - FOR PLANT BEDS, MULCH ON GRADE AREAS, AND INDIVIDUAL TREE RINGS WITH SPECIFIED MULCH, UNIFORMLY SPREAD MULCH OVER THE FULL DIAMETER OF EACH PLANTING BED, MULCH ON GRADE AREA, AND INDIVIDUAL TREE RINGS. MULCH INCLUDES INITIAL INSTALLATION. DO NOT PLACE MULCH AGAINST TRUNKS OR STEMS OF PLANTS.
8. IRRIGATION
 - THE FOLLOWING WATERING SCHEDULE IS PROVIDED AS A RECOMMENDATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE SUFFICIENT WATER TO ENSURE PROPER ESTABLISHMENT AND VIGOR OF PLANT MATERIAL.

SIZE OF NURSERY STOCK:	WATERING SCHEDULE
1/3" GAL CONTAINER:	DAILY FOR 2 WEEKS; EVERY OTHER DAY FOR 2 MONTHS; WEEKLY UNTIL ESTABLISHED
15/30/45 GAL CONTAINER:	DAILY FOR 1 MONTH; EVERY OTHER DAY FOR 3 MONTHS; WEEKLY UNTIL ESTABLISHED
65/100 GAL CONTAINER:	DAILY FOR 2 MONTH; EVERY OTHER DAY FOR 3 MONTHS; WEEKLY UNTIL ESTABLISHED
PALM:	DAILY FOR 1 MONTH; EVERY OTHER DAY FOR 3 MONTHS; WEEKLY UNTIL ESTABLISHED
9. IRRIGATION SHALL OPERATE AUTOMATICALLY USING PROGRAMMABLE TIMERS. COSTS FOR WATER AND POWER THROUGHOUT THE INSTALLATION AND ESTABLISHMENT PERIODS TO BE INCLUDED IN THE LUMP SUM COST OF THE PROJECT.
10. FINAL INSPECTION/ACCEPTANCE OF WORK/WARRANTY
 - A. FINAL INSPECTION AT THE END OF THE WARRANTY PERIOD SHALL BE ON PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT. ANY REPLACEMENT AT THIS SHALL BE SUBJECT TO THE SAME TIMEFRAME WARRANTY AS SPECIFIED IN CONTRACT.
 - B. THE LIFE AND SATISFACTORY CONDITION OF ALL PLANT MATERIAL INSTALLED BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTABILITY BY THE COUNTY.
 - C. ANY PLANT NOT FOUND IN A HEALTHY GROWING CONDITION AT THE END OF THE WARRANTY PERIOD SHALL BE REMOVED FROM THE SITE AND REPLACED WITHIN 2 WEEKS OR AS SOON AS WEATHER CONDITIONS PERMIT. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED, PLANTED AND MULCHED AS SPECIFIED UNDER "PLANTING PREPARATION" AT NO ADDITIONAL COST TO THE OWNER.

PLANTING AREA PREPARATION NOTES:

1. **PLANTING AREA PREPARATION TO OCCUR AS FOLLOWS:**
 - A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES, ELECTRICAL WIRING, WATER, ETC., PRIOR TO PLANT MATERIAL OR IRRIGATION INSTALLATION. DAMAGED UTILITY LINES SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO OKALOOSA COUNTY.
 - B. LAY OUT AND STAKE LOCATIONS OF PLANTINGS TO ACCURATELY REFLECT PLANS. COORDINATE WITH THE PROJECT LANDSCAPE ARCHITECT TO REVIEW LAYOUT AND STAKING ON SITE. PROVIDE A MINIMUM OF FIVE (5) BUSINESS DAYS ADVANCED NOTIFICATION .
 - C. THE CONTRACTOR SHALL NOTIFY OKALOOSA COUNTY AND PROJECT ENGINEER OF ANY UNFORESEEN CONDITIONS I.E., COMPACTED SOIL / SUBGRADE, POOR DRAINAGE, UNCONSOLIDATED SOIL, EROSION, UTILITY CONFLICTS, EXCESSIVE SUN OR SHADE, ETC., PRIOR TO PROCEEDING WITH LANDSCAPE INSTALLATION.
 - D. APPLY HERBICIDE WHERE PLANT BEDS, MULCH ON GRADE AREAS, AND SOD AREAS ARE PROPOSED. BEGIN PROCESS A MINIMUM OF 28 DAYS PRIOR TO PLANTING AS FOLLOWS: SPRAY AREA TO BE KILLED WITH GLYPHOSATE PER MANUFACTURER RECOMMENDATIONS.
 - E. EXCAVATE TREE WELLS WITH VERTICAL SIDES AND WITH BOTTOM OF EXCAVATION AT A LEVEL SO THAT THE TOP OF THE ROOT BALL OF THE PLANT IS 10% HIGHER THAN THE FINISH GRADE.
 - F. EXCAVATION FOR PALMS AND SHRUBS: SET THE TOP OF THE ROOT BALL AT THE SAME ELEVATION AS ADJACENT FINISHED LANDSCAPE GRADES OR UP TO ONE-HALF INCH HIGHER, BUT NOT LOWER THAN ADJACENT GRADES. EXCAVATIONS MUST BE AT LEAST TWICE AS WIDE AS THE PLANT'S ROOT BALL DIAMETER. DISPOSE OF UNUSABLE SUBSOIL REMOVED FROM LANDSCAPED EXCAVATIONS.
- G. INSTALL MYCORRHIZAL INOCULANT PER MANUFACTURER RECOMMENDATIONS.
- H. FILL PLANTING PIT WITH PLANTING BACKFILL MIXTURE IN LIFTS AND TAMP LIGHTLY AROUND EACH AND EVERY PLANT. THOROUGHLY FLUSH WITH WATER AT EACH LIFT AND MAKE ADJUSTMENTS TO PROVIDE PROPERLY SET PLANT MATERIAL. INSTALL FERTILIZER PER MANUFACTURER RECOMMENDATIONS.
- I. ESTABLISH FINISHED PRE-MULCHING GRADE.
- J. TREE STAKING SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE PLANS TO INSURE STABILITY AND MAINTAIN TREES IN AN UPRIGHT POSITION. IF THE CONTRACTOR AND COUNTY DETERMINE TO WAIVE THE STAKING, THE COUNTY SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING AND AGREE TO INDEMNIFY AND HOLD HARMLESS THE LANDSCAPE ARCHITECT IN THE EVENT UNSUPPORTED TREES PLANTED UNDER THIS CONTRACT FALL AND DAMAGE PERSON OR PROPERTY. ALL STAKING SHALL BE REMOVED IN ONE YEAR OR ONCE THE TREES ARE ESTABLISHED.
- K. EVENLY SPREAD MULCH ACROSS PLANTING AREAS ON GRADE AREAS TO A DEPTH OF 3".

UNDERSTORY AND SELECTIVE CLEARING SPECIFICATIONS:

1. PERFORM CORRECTIVE PRUNING OR REMOVAL TO AREAS IDENTIFIED ON THE LANDSCAPE PLAN.
2. THE COUNTY REPRESENTATIVE WILL CONDUCT A SITE VISIT TO VERIFY TREES AND OTHER VEGETATION FOR PRUNING OR REMOVAL PRIOR TO AND LANDSCAPE ACTIVITY. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO ASSESS VEGETATION REMOVAL.
3. ALL PRUNING ACTIVITIES WILL COMPLY WITH ANSI A300 PRUNING STANDARDS AND APPROPRIATE ARBORICULTURAL PRACTICES. ALL PRUNING ACTIVITIES WILL BE UNDER THE DIRECT SUPERVISION OF A CERTIFIED ARBORIST.
4. UNDER SUPERVISION OF THE CONTRACTOR'S CERTIFIED ARBORIST, PRUNE ALL EXISTING PLANT MATERIAL IDENTIFIED IN THE FIELD.
5. SELECTIVE CLEARING WITHIN STATUTE AREAS I, K, & L. SHALL BE DIRECTED BY COUNTY AND PERFORMED TO ACHIEVE AESTHETICALLY PLEASING APPEARANCE SURROUNDING INSTALLED MEMORIAL STATUTES:
 - A. APPLY HERBICIDE AS REQUIRED PER MANUFACTURER RECOMMENDATIONS TO STUMPS/SYSTEMS TO PREVENT RE-SPROUTING AND WEED ENCROACHMENT.
 - B. REMOVE ALL VINES AND ALL NUISANCE/EXOTIC SPECIES PER FLORIDA EXOTIC PEST PLANT COUNCIL CATEGORY 1 AND CATEGORY 2 LISTS. DISPOSE OF REMOVED MATERIAL OFF-SITE IN A LAWFUL MANNER.
 - C. REMOVE DISEASED/DYING/DEAD VEGETATION.
 - D. CHIPPED MATERIAL TO BE USED AS MULCH IS ANTICIPATED TO BE A MINOR COMPONENT OF OVERALL MULCH REQUIREMENTS. SPREAD CHIPPED MATERIAL TO A DEPTH OF 2" UNTIL EXHAUSTED. TAKE SPECIAL CARE TO EXCLUDE NUISANCE/EXOTIC SPECIES FROM MATERIAL TO BE CHIPPED.
6. CORRECTIVE PRUNING
 - PERFORM CORRECTIVE PRUNING, HERBICIDE APPLICATION, INSECT/DISEASE TREATMENT, ON ALL TAGGED EXISTING TREES AND PALMS TO REMAIN WITHIN THE AREAS IDENTIFIED ON THE PLANS. REMOVE SAPLINGS AND SHRUBBY VEGETATION AT BASE AND PRUNE AS NEEDED TO ENHANCE AND MAINTAIN NATURAL SHAPE AND VIGOR. PRUNING TO BE PERFORMED UNDER THE SUPERVISION OF A CERTIFIED ARBORIST WITH AT LEAST 5 YEARS OF EXPERIENCE ON SIMILAR PROJECTS.
7. ROOT PRUNING SHOULD OCCUR AT THE LOCATION OF EXCAVATION OF NEW SIDEWALK, BOARDWALK PIERS, AND OTHER VERTICAL IMPROVEMENTS IN VICINITY OF EXISTING TREES.
8. MULCH AS REQUIRED TO PROVIDE MULCH BEDS EXTENDING A MINIMUM OF 36" BEYOND EDGE OF FOLIAGE. COORDINATE WITH PROJECT LANDSCAPE ARCHITECT PRIOR TO PRUNING AND MULCHING.
9. PERFORM THE FOLLOWING IN NOTED AREAS.
 - AREA A
 - A. MODERATE CLEARING INCLUDING SHAPING OF LARGER VEGETATION PER STANDARDS STATED IN ABOVE NOTES.
 - B. REMOVE SAPLINGS AND OTHER WOODY VEGETATION FROM BENEATH TREES.
 - C. REMOVE ALL WEEDS, PALM SEEDLINGS, VINE AND NUISANCE EXOTIC SPECIES.
 - AREA B
 - A. TREE PRUNING FOR VIEW IMPROVEMENTS (OAKS & PALMS). PRUNE AS DIRECTED IN NOTES #5 AND #6. COUNTY OR REPRESENTATIVE SHALL REVIEW AND APPROVE SPECIES PRUNING PRIOR TO COMMENCEMENT.
 - B. DO NOT CLEAR AND GRUB. MINIMIZE DISTURBANCE TO ROOT ZONES OF TREES TO REMAIN.
 - C. REMOVE SAPLINGS AND OTHER WOODY VEGETATION FOR VIEWING PURPOSES. CONFER WITH COUNTY REPRESENTATIVES PRIOR TO COMMENCEMENT.
 - D. MULCH AREA PREFERABLY WITH WOOD CHIPS FROM VEGETATION REMOVAL AND BLEND IN NEW MULCH FOR A NATURAL TRANSITION.
 - AREA C
 - A. SITE PREPARATION AND FINISH GRADE OF PLANTING AREAS.
 - B. PROVIDE CLEARING OF EXISTING VEGETATION AND ALL NUISANCE PLANTS WITHIN PLANTING AREAS. APPLY PRE-EMERGENT TO PREVENT WEEDS, UNDESIRABLE VEGETATION, AND HIBERNATING SEED BEDS.
 - C. GRIND STUMPS AS NEEDED PER COUNTY DIRECTION.
 - D. PROVIDE A FINISH GRADE TO BLEND INTO EXISTING AND PROPOSED GRADING SHOWN ON CIVIL PLANS THAT CREATES A NATURAL LOOK TO THE OVERALL AREA.
 - E. PROVIDE A NEAT AND GENTLY CURVING MULCH BED EDGE AROUND NEW PLANTINGS.



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LANDSCAPE NOTES

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Drawing Number L-3			

NOTE: IRRIGATION SYMBOLS ARE GRAPHIC REPRESENTATIONS ONLY.

-IRRIGATION SCHEDULE-

SYMBOL	MANF.	NUMBER	GPM	PSI	RAD.
RAIN BIRD					
(A)	R-VAN	14 (90°)	0.28	30	8'-14"
(B)	R-VAN	14 (180°)	0.56	30	8'-14"
(C)	R-VAN	14 (210°)	0.65	30	8'-14"
(D)	R-VAN	14 (270°)	0.84	30	8'-14"
(E)	R-VAN	14 (360°)	1.10	30	8'-14"
(F)	R-VAN	18 (90°)	0.42	30	13'-18"
(G)	R-VAN	18 (180°)	0.85	30	13'-18"
(H)	R-VAN	18 (210°)	0.98	30	13'-18"
(I)	R-VAN	18 (270°)	1.26	30	13'-18"
(J)	R-VAN	18-360	1.65	30	13'-18"
(K)	R-VAN	24 (90°)	0.60	30	13'-18"
(L)	R-VAN	24 (180°)	1.20	30	13'-18"
(M)	R-VAN	24 (210°)	1.40	30	13'-18"
(N)	R-VAN	24 (270°)	1.80	30	13'-18"
(O)	R-VAN	24-360	2.35	30	17'-24"
(P)	R-VAN-RCS	0.18	30	4'X14'	
(Q)	R-VAN-SST	0.36	30	5'X30'	

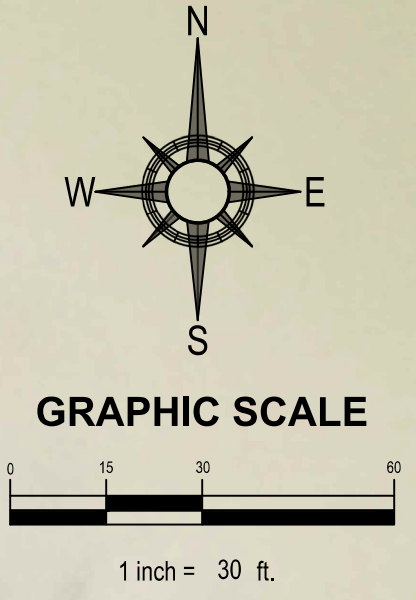
- IRRIGATION LEGEND -

- IRRIGATION WELL TO BE INSTALLED BY OTHERS
- 2" IRRIGATION MAINLINE: SCHEDULE 40 PVC SOLVENT W/ DETECTOR TAPE SCHEDULE 40 PVC SOLVENT WELD FITTINGS &
- IRRIGATION LATERAL LINE: PVC CLASS 200 W/ SCHEDULE 40 SOLVENT WELD FITTINGS
- SCHEDULE 40 PVC SLEEVING (SIZE PER PLAN)
- ELECTRIC VALVE: RAINBIRD PRS-D- W/ 2-WIRE DECODER & LSP1 LINE SURGE PROTECTION EVERY 500 LINEAR FEET INSTALLED IN RECTANGULAR VALVE BOX WITH LID
- PVC THREADED BALL VALVE INSTALLED IN 10" ROUND VALVE BOX.
- ESP- LX2 2WIRE CONTROLLER W/ OUTDOOR - RATED PLASTIC CABINET
- RAIN AND FREEZE SENSOR
- PROPOSED IRRIGATION ZONE

PIPE SIZE TABLE

IRRIGATION ZONE DEMAND GALLONS PER MINUTE (GPM)	MINIMUM PIPE SIZE
0 - 10	3/4"
11 - 16	1"
17 - 24	1 1/4"
25 - 30	1 1/2"
31 - 55	2"
43 - 60	2 1/2"
61 - 90	3"

REFER TO EACH IRRIGATION ZONE ON PLAN DRAWINGS FOR ZONE GPM



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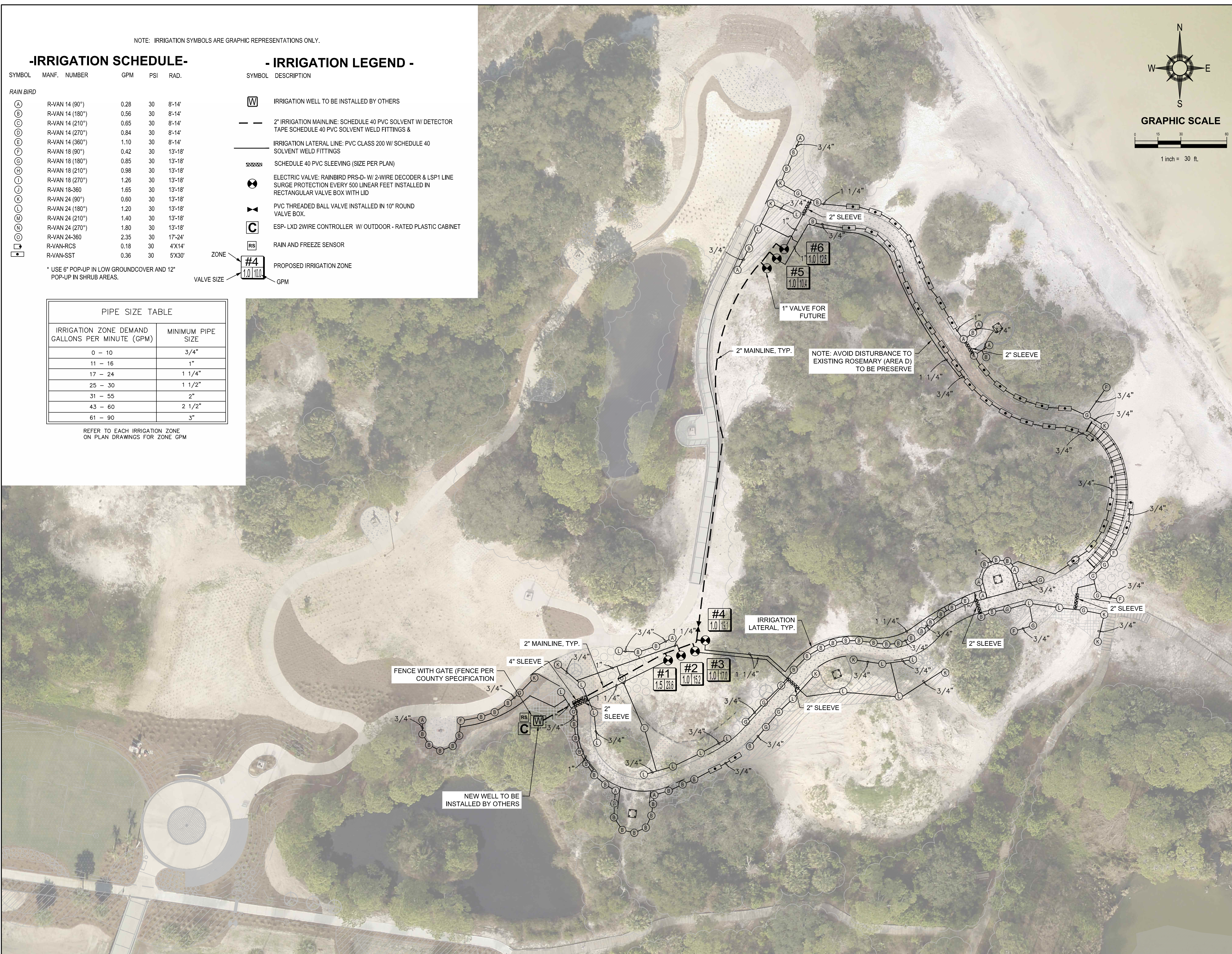
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Title
**Veterans Park East Lobe Expansion
IRRIGATION PLAN**

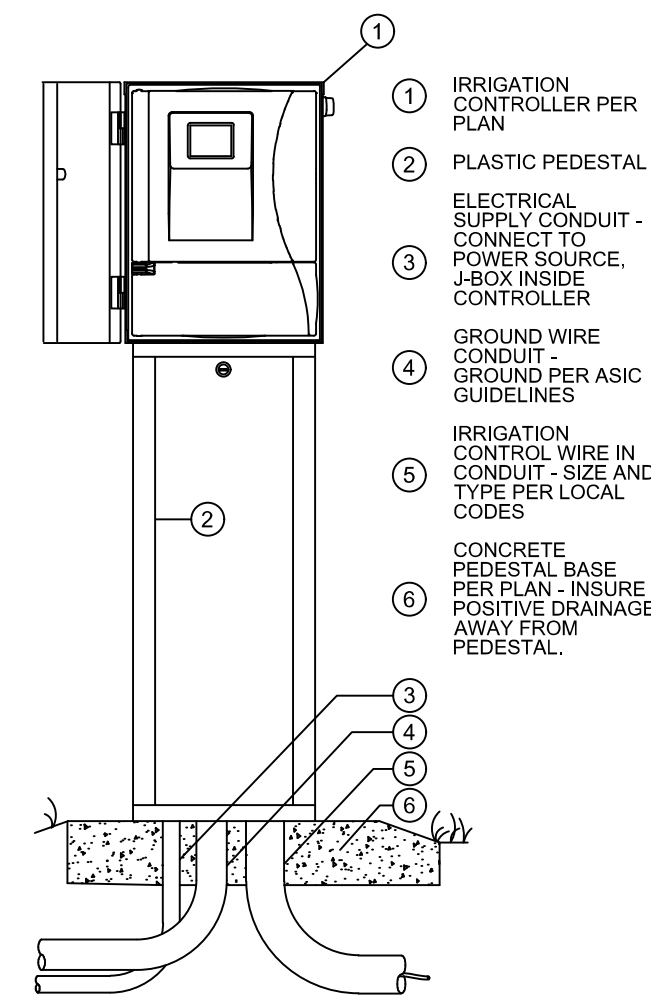
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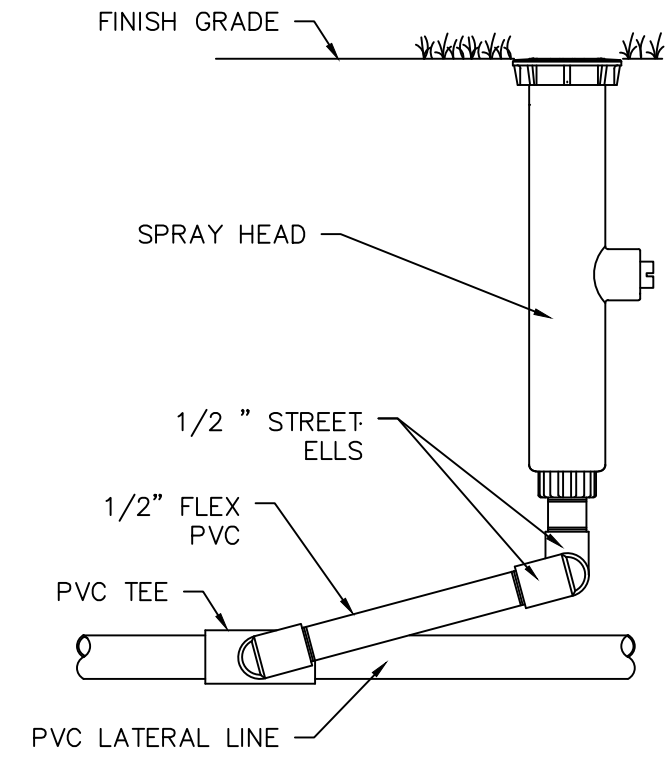


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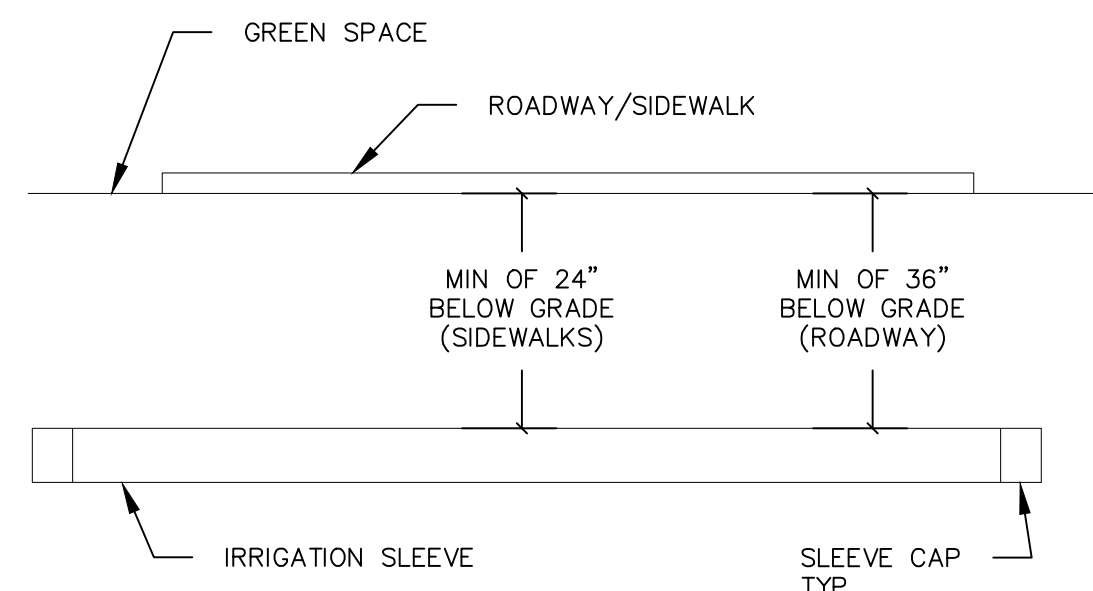


- NOTES:**
1. CONTROLLER ACCEPTS 120 VOLTS A.C. OR 230 VOLTS A.C. (INTERNATIONAL MODEL). CONTROLLER SHALL BE HARD-WIRED TO GROUND 110 VAC POWER SOURCE.
 2. CONTROLLER AND PEDESTAL ARE 5" DEEP.
 3. REFER TO MANUFACTURER INSTALLATION GUIDE FOR FURTHER INSTRUCTIONS.

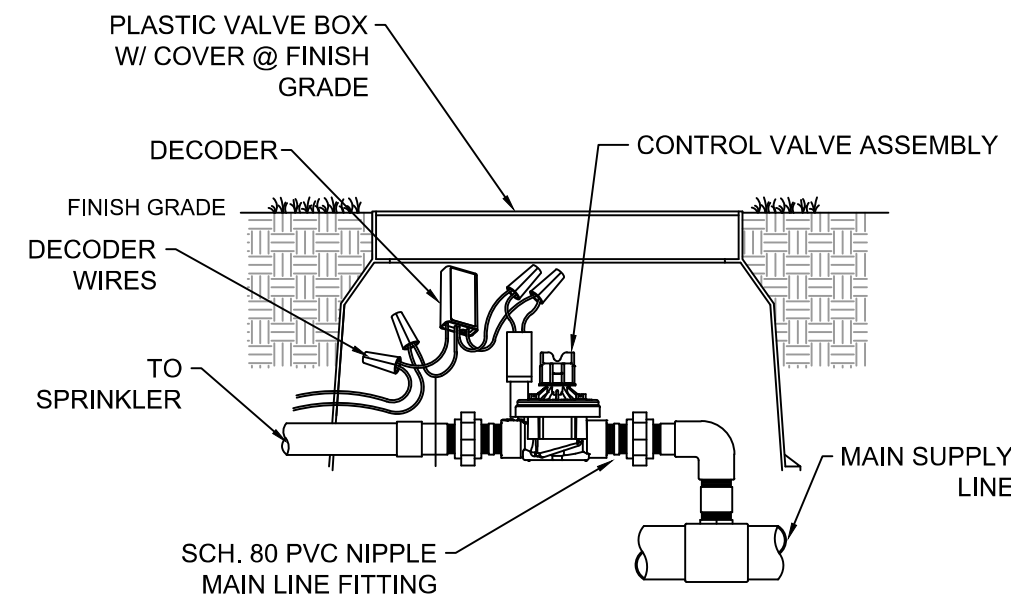
IRRIGATION CONTROLLER - PLASTIC ENCLOSURE & PEDESTAL
NOT TO SCALE



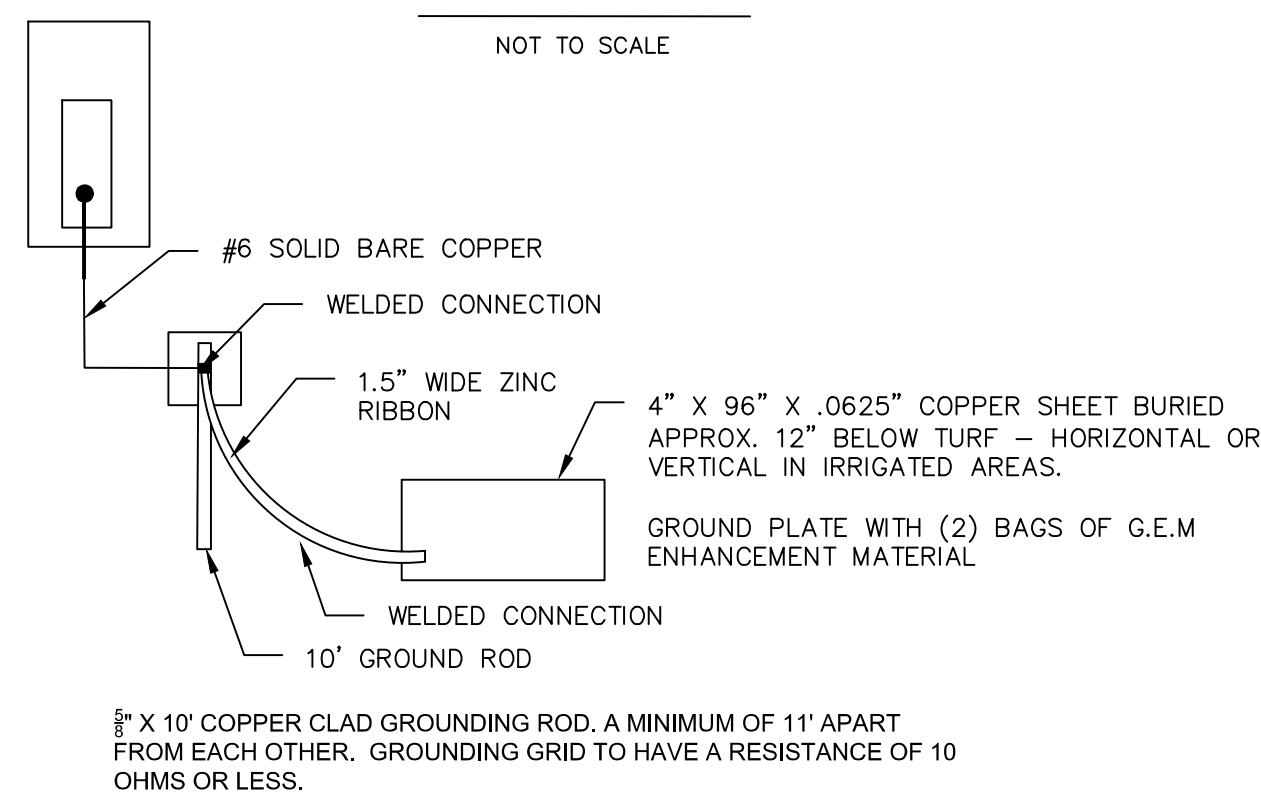
SPRAY HEAD
NOT TO SCALE



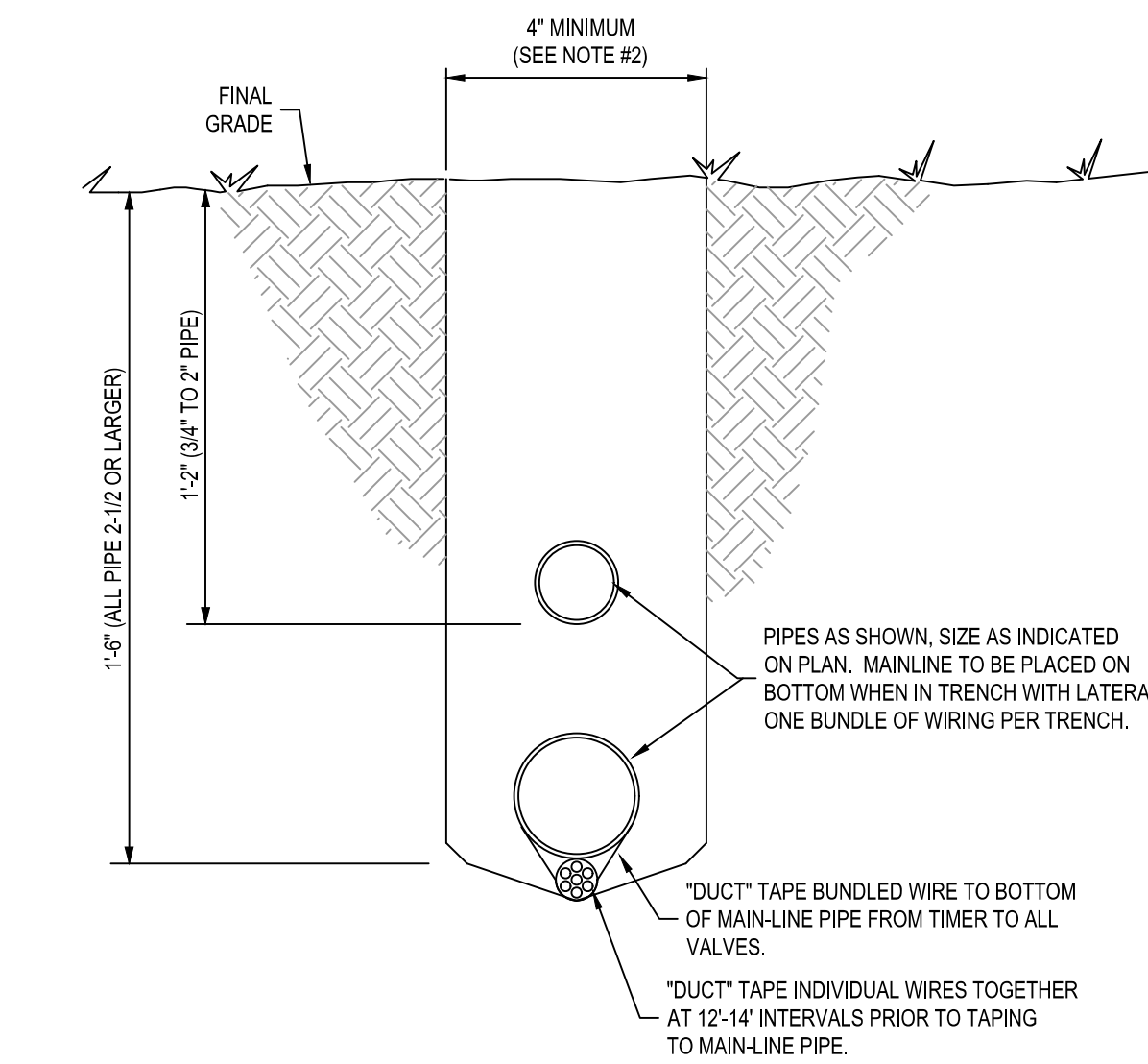
SLEEVE DETAIL
NOT TO SCALE



VALVE W/ DECODER IN VALVE BOX
NOT TO SCALE

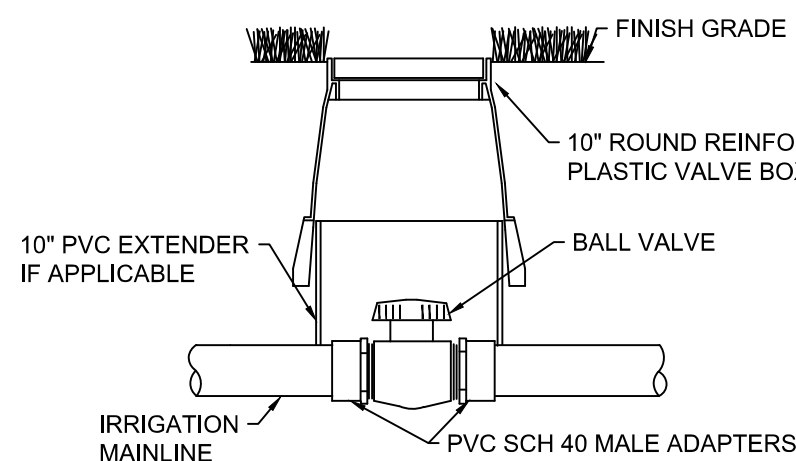


DECODER SURGE GROUNDING
NOT TO SCALE



TRENCHING DETAIL
NOT TO SCALE

- NOTES:**
1. PREVENT UNCOVERED PIPE FROM FLOATING UP DURING RAINS. PIPE WHICH FLOATS-UP DUE TO WATER ACCUMULATION IN TRENCH SHALL BE RESET TO SPECIFIED DEPTHS AT NO EXTRA COSTS.
 2. TRENCH WIDTH TO BE SIZED ACCORDING TO NEEDS. DO NOT DIG EXCESSIVELY WIDE TRENCH SO AS TO MINIMIZE DAMAGE TO SURROUNDING SOILS AND VEGETATION.



ISOLATION BALL VALVE
NOT TO SCALE

IRRIGATION GENERAL NOTES:

1. THE IRRIGATION CONTRACTOR SHALL REVIEW THE PLANTING PLANS TO DETERMINE THE PROPOSED PLANT MATERIALS FOR EACH HEAD LOCATION PRIOR TO BIDDING.
2. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFYING HEAD INSTALLATION TYPES, DEPENDING ON THE FINAL LOCATIONS OF ALL PLANT MATERIAL.
3. ALL SPRINKLER HEADS ARE TO BE INSTALLED WITH A 18 INCH MINIMUM LENGTH OF FLEXIBLE PVC PIPE, USING STANDARD PVC FITTINGS.
4. ALL HEADS SHALL BE ADJUSTED TO REDUCE WATER WASTE ON HARD SURFACES AND VERTICAL STRUCTURES.
5. THE IRRIGATION CONTRACTOR SHALL EXERCISE CARE SO AS NOT TO DAMAGE EXISTING UTILITIES.
6. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL UNDERGROUND UTILITIES. THE IRRIGATION CONTRACTOR SHALL REPAIR OR REPLACE ALL ITEMS DAMAGED AS A RESULT OF WORK.
7. ALL IRRIGATION LINES CROSSING BENEATH SIDEWALKS SHALL BE ENCASED IN SCHEDULE 40 PVC, AS SHOWN ON THE PLANS. SLEEVES SHALL BE A MINIMUM OF 24 INCHES BELOW EDGE OF PAVEMENT SURFACE, 36 INCHES DEPTH.
8. ALL PIPING UNDER CONSTANT PRESSURE SHALL BE TESTED UNDER HYDROSTATIC PRESSURE OF NOT LESS THAN 100 PSI FOR ONE HOUR WITH NO MORE THAN 5 PSI LOSS.
9. THE RAIN SENSOR SHALL BE LOCATED IN AN AREA WHERE NO OVERHEAD OBSTRUCTIONS THAT WILL ALTER RAIN FALL OR PRODUCE DEBRIS THAT MAY INVALIDATE RAINFALL READINGS.
10. THIS PLAN IS DIAGRAMMATIC. ALL PIPING OR VALVES SHOWN OUTSIDE LANDSCAPE AREAS ARE SHOWN THERE FOR CLARITY. ALL LINES AND VALVES SHALL BE INSTALLED ON THE PROPERTY AND INSIDE THE LANDSCAPE AREAS.
11. REFER TO LANDSCAPE DRAWINGS WHEN TRENCHING TO AVOID EXISTING AND PROPOSED TREES AND SHRUBS. HAND DIGGING SHALL BE USED BENEATH CANOPIES OF TREES TO AVOID DAMAGING ROOTS. THE IRRIGATION CONTRACTOR SHALL VERIFY THAT THE QUANTITIES INDICATED WILL PROVIDE THE COVERAGE AS SPECIFIED AND REPORT ANY DISCREPANCIES AT TIME OF BIDDING TO THE LANDSCAPE ARCHITECT.
12. IRRIGATION AS-BUILT SHALL BE PROVIDED PRIOR TO PROJECT SIGN OFF. ALL IRRIGATION COMPONENTS INCLUDING WELL, MAINLINE LOCATION, VALVES, GATE VALVES, ETC ARE TO BE INCLUDED.

IRRIGATION SPECIFICATIONS:

1. THE WORK INCLUDED IN THESE SPECIFICATIONS SHALL CONSIST OF FURNISHING ALL LABOR, TOOLS, MATERIALS, TEST, PERMITS, ETC. NECESSARY FOR THE INSTALLATION OF WELL (W/ FUTURE CAPACITY) AND AUTOMATIC ELECTRIC CONTROL.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH LOCAL AND STATE REQUIREMENTS REGARDING THE LOCATION, SIZE AND PRESSURE NEEDED FOR THE IRRIGATION SYSTEM.
3. THE CONTRACTOR SHALL NOTIFY THE COUNTY OF ANY DISCREPANCIES ON THE LANDSCAPE AND IRRIGATION PLANS DURING BIDDING AND/OR PRIOR TO PROCEEDING WITH ANY WORK.
4. ALL LOCAL, MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE IRRIGATION CONTRACTOR.
5. ALL WORK AND MATERIALS NECESSARY FOR AN OPERATIONAL AUTOMATIC IRRIGATION SYSTEM SHALL BE FURNISHED AND INSTALLED WHETHER OR NOT SPECIFIED IN PLANS, SPECIFICATIONS, AND DETAILS.
6. COORDINATE AND OBTAIN POWER FOR IRRIGATION. LOCATE IRRIGATION CONTROLLER PER COUNTY DIRECTION. COSTS FOR OBTAINING POWER SERVICE IS TO BE INCLUDED IN THE CONTRACTOR'S BID.
7. POP-UP HEADS SHALL BE INSTALLED IN AREAS WHERE THE LONG RADIUS COVERAGE INTENDED WILL NOT BE BLOCKED BY PLANT MATERIAL OR OTHER STRUCTURES (EX. STATUES, SIGNS, FIRE HYDRANTS, WALLS, ETC.)
8. CHANGES IN HEAD PLACEMENT SHOULD ALWAYS BE DONE TAKING INTO CONSIDERATION:
 - A. WHAT IS BEST FOR THE GROWTH AND MAINTENANCE OF PLANT MATERIAL.
 - B. MAINTAINING A CONSTANT AND EVEN DISTRIBUTION AND PRECIPITATION RATE. (NEVER INSTALL ROTORS, SPRAYS OR BUBBLERS ON THE SAME ZONE).
 - C. THE SPACING BETWEEN HEADS SHALL NOT EXCEED 50% OF THE DIAMETER FOR HEADS SPACED ON A SQUARE PATTERN OR 60% OF THE DIAMETER FOR HEADS SPACED ON A TRIANGULAR PATTERN.
9. POP-UP SPRINKLER HEADS SHALL BE INSTALLED:
 - A. 3" TO 6" FROM EDGE OF CURB OR SIDEWALK.
 - B. 12" TO 18" FROM EDGE OF PAVEMENT (WHERE NO CURB EXISTS)
 - C. FLUSH WITH FINISH GRADE.
10. FIELD ALTERATIONS MADE IN THE IRRIGATION CONTRACT DRAWING MUST BE IN THE BEST INTEREST OF THE PLANT MATERIAL AND FUNCTION OF THE IRRIGATION SYSTEM. CHANGES MADE BY THE IRRIGATION CONTRACTOR WHICH ARE DEEMED BY OKALOOSA COUNTY, NOT TO BE IN CONFORMITY WITH THIS CRITERIA WILL BE REMOVED AND REPLACED AT THE IRRIGATION CONTRACTOR'S EXPENSE. IF A QUESTION SHOULD ARISE AS TO THE BEST WAY TO COMPLETE A FIELD ALTERATION, CONTACT THE COUNTY AND PROJECT ENGINEER FOR APPROVAL.
11. THE CONTRACTOR SHALL STAKE OUT THE LOCATION OF EACH RUN OF PIPE, SPRINKLER HEADS, SPRINKLER VALVES PRIOR TO TRENCHING. TRENCHES FOR PIPE SHALL BE CUT TO REQUIRED GRADE LINES AND COMPACTED TO PROVIDE ACCURATE GRADE AND UNIFORM BEARING FOR THE FULL LENGTH OF THE LINE. THE BOTTOM OF TRENCHES SHALL BE FREE OF ROCK OR OTHER SHARP EDGED OBJECTS. MINIMUM COVER SHALL BE AS FOLLOWS: PRESSURE MAINLINE 24" AT TOP OF PIPE TO FINISH GRADE. LATERAL PIPING 12" AT TOP OF PIPE FROM FINISH GRADE.
12. INITIAL BACKFILL ON PVC LINE SHALL BE PULVERIZED NATIVE SOIL, FREE OF FOREIGN MATTER. WITHIN RADIUS OF 4" OF THE PIPE SHALL BE CLEAN SOIL OR SAND. PLANT LOCATIONS SHALL TAKE PRECEDENCE OVER SPRINKLER AND PIPE LOCATIONS. THE CONTRACTOR SHALL COORDINATE THE PLACING OF SPECIMEN TREES AND SHRUBS WITH THE ROUTING OF LINES AND FINAL HEAD LOCATIONS.
13. THE IRRIGATION AND LANDSCAPE CONTRACTORS SHALL COORDINATE THE PLACEMENT OF THE SPRINKLER EQUIPMENT AND LANDSCAPE MATERIAL WITHIN THE PLANTED AREAS. THE IRRIGATION CONTRACTOR SHALL INSTALL HIS MATERIAL AT THE EDGE OF THE PLANTED AREAS AVOIDING PLANTS, ROOTBALLS, STATUES, LIGHTS, FENCES, ETC.
14. BEFORE SPRINKLER HEADS ARE SET, THE CONTRACTOR SHALL FLUSH THE LINES THOROUGHLY TO MAKE SURE THERE IS NO FOREIGN MATTER IN THE LINES. THE CONTRACTOR SHALL FLUSH THE MAINLINES FROM DEAD END FITTINGS FOR A MINIMUM OF FIVE (5) MINUTES UNDER A FULL HEAD OF PRESSURE.
15. TRENCHES MUST BE PROTECTED FROM VEHICLE AND PEDESTRIAN TRAFFIC AT ALL TIMES. IT WILL BE THE IRRIGATION CONTRACTORS RESPONSIBILITY TO BARRICADE AND DIVERT TRAFFIC. NO OPEN TRENCHES PERMITTED OVERNIGHT. TRENCHES MUST BE COVERED/FILLED AT END OF EACH WORK DAY.
16. SLEEVING BENEATH SIDEWALKS SHALL BE PROVIDED BY THE IRRIGATION CONTRACTOR. SIZE SLEEVING TWO TIMES LARGER THAN THE PIPE TO BE PLACED INSIDE THE SLEEVE OR AS SHOWN IN PLANS, WHICHEVER IS GREATER. SLEEVING MATERIAL TO BE SCHEDULE 40 PVC. NO SLEEVING SHALL BE SMALLER THAN (2") SCHEDULE 40 PVC. SLEEVE ALL WIRE CROSSINGS EITHER IN CONDUIT (AS SPECIFIED) OR IN SCHEDULE 40 PVC PIPE.
17. LATERAL PIPE TO BE SIZED AS NOT TO EXCEED 5 FEET PER SECOND BASED ON STANDARD CLASS 200 AND SCH 40 PVC CHARACTERISTICS.
18. MAINLINE SHALL BE CAPPED AND PRESSURE TESTED BEFORE ANY COMPONENTS ARE BURIED. ALL VALVES AND OTHER CONNECTIONS ARE TO BE CLOSED DURING THE TEST. THE MAINLINE SHALL BE TESTED PER IRRIGATION INDUSTRY PRESSURE AND TIME LENGTH STANDARDS.
19. ALL TRENCHES WITHIN 15' OF EXISTING TREES TO BE HAND EXCAVATED TO AVOID CONFLICTS WITH TREES. THE CONTRACTOR SHALL NOT ALLOW ANY WORK TO BE COVERED OR ENCLOSED UNTIL IT HAS BEEN INSPECTED, TESTED AND APPROVED BY THE COUNTY OR THEIR REPRESENTATIVE.
20. NO ROOTS SHALL BE CUT WITHIN (15') RADIUS OF ALL EXISTING TREES. IRRIGATION PIPES AND CONDUIT SHOULD BE DIRECTIONAL BORED WITHIN THIS (15') AREA.



**LAND USE PLANNING
LANDSCAPE ARCHITECTURE**

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Rev	Date	Drawn	Description	Ch'k'd	App'd

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AA - C0000035 EB - 0000155 LB - 0006783

Client
**Okaloosa County
Board of County Commissioners**

Title
Veterans Park East Lobe Expansion

IRRIGATION DETAILS

ISSUED FOR BID

THIS DRAWING IS NOT FOR CONSTRUCTION

Project Number 502101659-011	B/O 2	Total 31
Designed G. TULLO-WILLIAMS	Eng check	
Drawn	Coordination	
Dwg check	Approved	
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STRUCTURAL NOTES

GENERAL

- 1. TO THE BEST OF OUR KNOWLEDGE, THE STRUCTURAL PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) 8TH EDITION (2023).
2. COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE, OSHA, AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL CODES, STANDARDS, REGULATIONS AND LAWS.
3. ALL REFERENCED STANDARDS REFER TO THE EDITION IN FORCE AT THE TIME THESE PLANS AND SPECIFICATIONS ARE ISSUED FOR PERMITTING.
4. REVIEW ALL CONTRACT DOCUMENTS, DIMENSIONS AND SITE CONDITIONS AND COORDINATE WITH FIELD DIMENSIONS AND PROJECT SHOP DRAWINGS PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES IN WRITING TO ENGINEER. DO NOT CHANGE SIZE OR DIMENSIONS OF STRUCTURAL MEMBERS WITHOUT WRITTEN INSTRUCTIONS FROM THE STRUCTURAL ENGINEER OF RECORD.
5. ANY DISCREPANCIES, OMISSIONS OR VARIATIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS DISCOVERED DURING THE BIDDING PERIOD SHALL BE IMMEDIATELY COMMUNICATED IN WRITING TO THE ENGINEER OF RECORD.
6. PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITY LINES FROM ALL DAMAGE. EACH CONTRACTOR SHALL PROTECT HIS WORK, ADJACENT PROPERTY AND THE PUBLIC. EACH CONTRACTOR IS SOLELY RESPONSIBLE FOR DAMAGE OR INJURY DUE TO HIS ACT OR NEGLIGENCE.
7. CONTRACTOR IS RESPONSIBLE FOR SECURING OF THE JOBSITE AGAINST PEDESTRIAN OR VEHICULAR ACCESS.
8. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SAFETY AND CONSTRUCTION PROCEDURES.
9. DO NOT SCALE DRAWINGS; USE DIMENSIONS.
10. NO DEVIATIONS OR REVISIONS FROM THESE PLANS BY THE CONTRACTOR SHALL BE ALLOWED WITHOUT PRIOR APPROVAL FROM BOTH THE DESIGN ENGINEER AND OKALOOSA COUNTY. ANY DEVIATIONS MAY RESULT IN DELAYS IN OBTAINING A CERTIFICATE OF OCCUPANCY.
11. THE CONTRACTOR SHALL INSTALL PRIOR TO THE START OF CONSTRUCTION AND MAINTAIN DURING CONSTRUCTION ALL SEDIMENT CONTROL MEASURES AS REQUIRED TO RETAIN ALL SEDIMENTS ON THE SITE. IMPROPER SEDIMENT CONTROL MEASURES MAY RESULT IN CODE ENFORCEMENT VIOLATION.
12. NOTIFY SUNSHINE UTILITIES 48 HOURS IN ADVANCE PRIOR TO DIGGING WITHIN R/W; 1-800-432-4770.
13. NO ADDITIONAL IMPERVIOUS SURFACE IS PROPOSED TO THE SITE.
14. DESIGN LOADS AND CRITERIA:
A. FLOOR LIVE LOADS (LIVE LOADS ARE NOT CONCURRENT)
- BOARDWALK 100 PSF
- JOHN DEERE GATOR TS 4x2 VEHICLE & PAYLOAD 1815 LBS
B. WIND CRITERIA (ASCE 7-22)
- ADDRESS: 1250 MIRACLE STRIP PARKWAY SE FT. WALTON BEACH, FLORIDA 32548
- BASIC WIND SPEED 153 MPH
- EXPOSURE D
- ENCLOSURE CLASSIFICATION LATTICE FRAMEWORK
C. SEISMIC CRITERIA
- IMPORTANCE FACTOR 1.00
- SPECTRAL RESPONSE ACCELERATIONS (Ss, S1) 0.1, 0.061
- SITE CLASS D
- SPECTRAL RESPONSE COEFFICIENTS (S0s, S01) 0.098, 0.087
- SEISMIC DESIGN CATEGORY B
- SEISMIC FORCE-RESISTING SYSTEM TIMBER FRAMES
- RESPONSE MODIFICATION FACTOR (R) 1.5
- SEISMIC RESPONSE COEFFICIENT (Cs) 0.065
- ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE

SHOP DRAWING SUBMITTAL

- 1. THE FOLLOWING REQUIREMENTS IN NO WAY REDUCE OR LIMIT ANY ADDITIONAL REQUIREMENTS OF THE SPECIFICATIONS.
2. REVIEW OF SUBMITTALS BY THE STRUCTURAL ENGINEER IS FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS. RESPONSIBILITY FOR THE CORRECTNESS OF DIMENSIONS, DETAILS, QUANTITIES, AND SAFETY DURING FABRICATION AND CONSTRUCTION SHALL REMAIN WITH THE CONTRACTOR.
3. CORRECTIONS AND/OR COMMENTS MADE ON THE SHOP DRAWINGS DURING REVIEW DO NOT IMPLY THAT ALL ERRORS AND OMISSIONS HAVE BEEN CORRECTED. NOR DOES IT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE CONTRACT DOCUMENTS.
4. NO DETAILED CHECK OF QUANTITIES OR DIMENSIONS WILL BE MADE. ONLY THOSE SHOP DRAWINGS REQUIRED BY THE CONTRACT DOCUMENTS TO BE SUBMITTED WILL BE REVIEWED. ALL OTHERS WILL BE RETURNED WITHOUT COMMENT.
5. SHOP DRAWINGS WILL NOT BE REVIEWED UNLESS THEY ARE STAMPED "APPROVED" OR "APPROVED AS NOTED" BY THE GENERAL CONTRACTOR OR CONTRACTION MANAGER, WHICH EVER IS APPLICABLE.
6. THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY SPECIFIC DEVIATIONS TO THE CONTRACT DOCUMENTS AND OBTAIN ENGINEER'S WRITTEN APPROVAL BEFORE PROCEEDING.
7. IN ACCORDANCE WITH THE SPECIFICATIONS SUBMIT SHOP DRAWINGS CONSISTENT WITH THE FOLLOWING CRITERIA:
A. ALLOW ADEQUATE TIME FOR TRANSIT AND PROCESSING BEFORE FABRICATION.
B. SCHEDULE AND SUBMIT SHOP DRAWINGS FOR SPECIFIC COMPONENTS, SUCH AS COLUMNS, FOOTINGS, ETC., IN THEIR ENTIRETY. SHOP DRAWINGS FOR SIMILAR FLOORS SHALL BE SUBMITTED IN THE SAME PACKAGE.
C. SUBMIT SHOP DRAWINGS IN A TIMELY MANNER, CONSISTENT WITH THE ABOVE REQUIREMENTS.
8. ALL CHANGES AND ADDITIONS MADE ON RESUBMITTALS MUST BE CLEARLY FLAGGED AND NOTED. THE PURPOSE OF THE RESUBMITTALS MUST BE CLEARLY NOTED ON THE LETTER OF TRANSMITTAL. ENGINEER REVIEW WILL BE LIMITED TO THE ITEMS CAUSING THE RESUBMITTAL.
9. DO NOT REPRODUCE THE CONTRACT DOCUMENTS FOR USE AS SHOP DRAWINGS.
10. SHOP DRAWINGS NOT MEETING THE ABOVE CRITERIA OR SUBMITTED AFTER FABRICATION WILL NOT BE REVIEWED.
11. RESPONSIBILITIES OF DETAILERS AND FABRICATORS:
A. GENERAL- SUBMIT SHOP DRAWINGS AND ANY OTHER SPECIAL INFORMATION NECESSARY FOR PROPER FABRICATION, ERECTION, AND PLACEMENT OF STRUCTURAL FABRICATIONS. INCLUDE PLANS, ELEVATIONS, AND SECTIONS. CLEARLY SHOW ANCHORAGES, CONNECTIONS, AND ACCESSORY ITEMS. THE DETAILER MUST INTERPRET THE CONTRACT DOCUMENTS AND CLEARLY CONVEY THIS INTERPRETATION TO THE FIELD IN THE FORM OF PLACING OR ERECTION DRAWINGS.
12. FOR ADDITIONAL CRITERIA APPLICABLE TO SHOP DRAWINGS REQUIRING ENGINEERING INPUT BY A SPECIALTY ENGINEER, REFER TO NOTES BELOW.

SHOP DRAWING REQUIRING ENGINEERING INPUT BY SPECIALTY ENGINEER

- 1. SPECIALTY ENGINEER:
A. DEFINITION - A FLORIDA REGISTERED PROFESSIONAL ENGINEER WHO SPECIALIZES IN AND WHO UNDERTAKES THE DESIGN OF STRUCTURAL COMPONENTS OR STRUCTURAL SYSTEMS INCLUDED IN A SPECIFIC SUBMITTAL PREPARED FOR THIS PROJECT.
2. A SPECIALTY ENGINEER SHALL BE:
A. AN EMPLOYEE OR OFFICER OF A FABRICATOR
B. AN EMPLOYEE OR OFFICER OF AN ENTITY SUPPLYING COMPONENTS TO A FABRICATOR.
C. AN INDEPENDENT CONSULTANT RETAINED BY THE FABRICATOR OR HIS SUPPLIER.
3. THE FOLLOWING SYSTEMS AND COMPONENTS AS A MINIMUM REQUIRE FABRICATION AND ERECTION DRAWINGS WITH INPUT BY A SPECIALTY ENGINEER, BUT ARE NOT LIMITED TO: PREFABRICATED TICKET BOOTH, FLOATING LANDING, ALUMINUM GANGWAYS.
4. THE SPECIALTY ENGINEER OR MANUFACTURER SHALL DESIGN, PROVIDE, AND INSTALL THEIR COMPONENTS AND THE COMPONENT CONNECTIONS TO THE PRIMARY STRUCTURE PER THE WIND CRITERIA STATED IN THESE NOTES OR THE CURRENT GOVERNING BUILDING CODES, WHICHEVER IS MORE STRINGENT.
5. SUBMITTALS SHALL CLEARLY IDENTIFY THE SPECIFIC PROJECT AND APPLICABLE CODES, LIST THE DESIGN CRITERIA, AND SHOW ALL DETAILS AND PLANS NECESSARY FOR PROPER FABRICATION AND INSTALLATION. CALCULATIONS AND SHOP DRAWINGS SHALL IDENTIFY SPECIFIC PRODUCT UTILIZED. GENERIC PRODUCTS WILL NOT BE ACCEPTED.
6. SHOP DRAWINGS AND CALCULATIONS MUST BE PREPARED UNDER THE DIRECT SUPERVISION AND CONTROL OF THE SPECIALTY ENGINEER.
7. SHOP DRAWINGS AND CALCULATIONS REQUIRE THE EMBOSSED SEAL, DATE AND SIGNATURE OF THE SPECIALTY ENGINEER. COMPUTER PRINTOUTS ARE AN ACCEPTABLE SUBSTITUTE FOR MANUAL COMPUTATIONS PROVIDED THEY ARE ACCOMPANIED BY SUFFICIENT DESCRIPTIVE INFORMATION TO PERMIT THEIR PROPER EVALUATION. SUCH DESCRIPTIVE INFORMATION SHALL BEAR THE EMBOSSED SEAL AND SIGNATURE OF THE SPECIALTY ENGINEER AS AN INDICATION THAT HE HAS ACCEPTED RESPONSIBILITY FOR THE RESULTS. SEPIAS DO NOT REQUIRE SIGNATURE AND SEAL. THE STRUCTURAL ENGINEER WILL RETAIN ONE SIGNED AND SEALED BLUELINE PRINT FOR RECORD.
8. CATALOG INFORMATION ON STANDARD PRODUCTS DOES NOT REQUIRE THE SEAL OF A SPECIALTY ENGINEER.
9. REVIEW BY THE STRUCTURAL ENGINEER OF RECORD OF SUBMITTALS IS LIMITED TO VERIFYING THE FOLLOWING:
A. THAT THE SPECIFIED STRUCTURAL SUBMITTALS HAVE BEEN FURNISHED.
B. THAT THE STRUCTURAL SUBMITTALS HAVE BEEN SIGNED AND SEALED BY THE SPECIALTY ENGINEER.
C. THAT THE SPECIALTY ENGINEER HAS UNDERSTOOD THE DESIGN INTENT AND HAS USED THE SPECIFIED STRUCTURAL CRITERIA. (NO DETAILED CHECK OF CALCULATIONS WILL BE MADE.)
D. THAT THE CONFIGURATION SET FORTH IN THE STRUCTURAL SUBMITTALS IS CONSISTENT WITH THE CONTRACT DOCUMENTS. (NO DETAILED CHECK OF DIMENSIONS OR QUANTITIES WILL BE MADE.)
10. SUBMITTALS NOT MEETING THE ABOVE CRITERIA WILL NOT BE REVIEWED AND WILL BE RETURNED TO CONTRACTOR MARKED REVISE AND RESUBMIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DELAYS WHICH MAY RESULT.

PRESERVATIVE TREATMENT:

- 1. TO THE EXTENT POSSIBLE, ALL WOOD SHALL BE CUT, DRILLED, AND COMPLETELY FABRICATED PRIOR TO PRESSURE TREATMENT. WHEN FIELD FABRICATION OF WOOD IS REQUIRED OR IF WOOD IS DAMAGED, ALL CUTS, BORE HOLES, AND DAMAGE SHALL BE IMMEDIATELY FIELD TREATED WITH WOOD PRESERVATIVE IN ACCORDANCE WITH AWPA STANDARDS.
2. ALL WOOD ATTACHED DIRECTLY TO CONCRETE, EXPOSED TO THE WEATHER SHALL BE PRESSURE TREATED WITH ALKALINE COPPER QUAT (ACQ) AT THE RATE OF 0.60 LBS/CU FT.
3. ALL PILES SHALL BE PRESSURE TREATED WITH CCA AT THE RATE OF 2.5 LBS/CU FT FOR MARINE USE.
4. ALL LUMBER SHALL BE TREATED IN ACCORDANCE WITH THE REQUIREMENTS OF AWPA STANDARDS AND ASTM D1760.
5. TREATED MATERIAL SHALL BE FREE OF EXCESS PRESERVATIVE ON THE WOOD SURFACE. THE TREATING PROCESS SHALL INCLUDE AN EXPANSION BATH, STEAMING AND/OR DRIPPING TO ENSURE THAT PRESERVATIVE WILL NOT BLEED.
6. TREATED WOOD SHALL BE INSPECTED AND CERTIFIED IN ACCORDANCE WITH AWPA STANDARDS.
7. THE TOPS OF PILES, RAIL POSTS AND THE TOP OF THE RAIL SPLICE PLATE KERF SHALL BE FLASHED, SEALED WITH ROOFING CEMENT OR OTHERWISE PROTECTED FROM DIRECT EXPOSURE TO THE WEATHER.

TREATED TIMBER PILING AND PILING INSTALLATION

- 1. ALL BOARDWALK PILES SHALL BE CUT FROM SOUTHERN PINE WITH 10" MINIMUM TIP DIAMETER DRIVEN TO A DEPTH OF 15'-0" BELOW GRADE OR 15'-0" BELOW STATUE PILE CAP.
2. PROTECT PILE HEADS USING CAPS, COLLARS OR SHOES AS REQUIRED DURING DRIVING TO DISTRIBUTE THE HAMMER BLOW OVER THE ENTIRE PILE CROSS-SECTION AND PREVENT SPLITTING AND BROOMING.
3. THE FINAL POSITION OF THE PILE HEAD AT CUT-OFF ELEVATION SHALL BE NO MORE THAN 3" FROM THE PLAN POSITION INDICATED IN THE PLANS.
4. THE AXIAL ALIGNMENT OF THE DRIVEN PILES SHALL NOT DEVIATE MORE THAN .25"/FT FROM VERTICAL.
5. PILES SHALL NOT BE MOVED Laterally AFTER DRIVING TO FORCE THEM TO BE WITHIN THE SPECIFIED TOLERANCE. PILES THAT ARE OUT OF TOLERANCE OR DAMAGED SHALL BE REMOVED. HOLE FILLING AND REDRIVING PROCEDURES SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER.
6. ALL TIMBER PILING SHALL CONFORM TO TECHNICAL SPECIFICATION SECTION 02459.
7. PILES SHALL BE OF TIMBER WHICH WILL STAND THE DRIVING FOR WHICH THEY ARE INTENDED. THEY SHALL BE SOUND AND SOLID, AND SHALL BE SOUTHERN YELLOW PINE. THE PILING SHALL CONTAIN AT LEAST 30% OF SUMMER WOOD.
8. THE TREATING OF SOUTHERN YELLOW PINE SHALL BE IN CONFORMANCE WITH FDOT SECTION 955 - TIMBER TREATMENT FOR SALT WATER ENVIRONMENT.
9. TIMBER PILES SHALL BE IN ACCORDANCE WITH ASTM D25-12: STANDARD SPECIFICATIONS FOR ROUND TIMBER PILES.
10. PILES SHALL BE INSTALLED TO ACHIEVE THE SPECIFIED PILE TIP ELEVATIONS OR A MINIMUM OF 15'-0" OF PILE EMBEDMENT BENEATH THE FINISHED GRADE. CONTRACTOR IS RESPONSIBLE FOR THE SELECTION OF THE APPROPRIATE PILE HAMMER OR DRILL TO ACHIEVE THE PILE TIP ELEVATION. CONTRACTOR SHALL BE FAMILIAR WITH THE PROJECT SITE CONDITIONS AND SHALL REVIEW THE SUPPLIED GEOTECHNICAL DATA FROM LARRY M. JACOBS E-MAIL DATED APRIL 01, 2021.
11. PILES HITTING OBSTACLES, MISALIGNED PILES AND PILES THAT HAVE NOT ACHIEVED MINIMUM PENETRATION SHALL BE PULLED BY THE CONTRACTOR AND REINSTALLED AT NO ADDITIONAL COST.
12. THE CONTRACTOR SHALL BE RESPONSIBLE OF MONITORING ADJACENT STRUCTURES FOR VIBRATION, MOVEMENT, OR DAMAGES DURING THE PILE INSTALLATION OPERATIONS. IF MOVEMENT OR DAMAGES TO THE STRUCTURES ARE DETECTED, THE PILE INSTALLATION SHALL BE HALTED IMMEDIATELY. PHOTOS OF THE STRUCTURES SHALL BE TAKEN BEFORE AND AFTER THE OPERATION BY THE COUNTY AND CONTRACTOR.
13. 10 INCH DIAMETER PILES SHALL HAVE A COMPRESSIVE CAPACITY OF 7.0 KIPS, A TENSILE CAPACITY OF 1.9 KIPS AND LATERAL CAPACITY OF 2.5 KIPS.

- 14. ALL PILES FOR STATUES SHALL BE CUT FROM SOUTHERN PINE w/ MIN. 8 INCH TIP DIAMETER DRIVEN TO A DEPTH OF 15'-0" BELOW GRADE OR THE BOTTOM OF PILE CAP.
15. 8 INCH DIAMETER PILES SHALL HAVE A COMPRESSIVE CAPACITY OF 4.8 KIPS, A TENSILE CAPACITY OF 1.5 KIPS AND LATERAL CAPACITY OF 1.8 KIPS.

WOOD

- 1. DESIGN AND CONSTRUCT IN ACCORDANCE WITH THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION AND THE AMERICAN PLYWOOD ASSOCIATION.
2. WOOD SHALL BE PRESSURE TREATED NO. 2 SOUTHERN PINE OR BETTER MATCHING THE SIZES SHOWN ON THE PLANS, TYP U.O.N.
3. ALL 2x12 PILE CAPS SHALL BE NO. 1 GRADE SOUTHERN YELLOW PINE.
4. WOOD ATTACHED DIRECTLY TO CONCRETE OR MASONRY OR EXPOSED TO THE WEATHER SHALL BE PRESSURE TREATED.
5. CONNECTORS SHALL BE STAINLESS STEEL SIMPSON OR ENGINEER APPROVED EQUAL. CONNECTORS CALLED OUT ON PLANS ARE SIMPSON MODEL NUMBERS. INSTALL CONNECTORS ACCORDING TO THE MANUFACTURER'S WRITTEN INSTRUCTIONS USING THE MAXIMUM NUMBER OF CONNECTORS U.O.N.
6. USE FLORIDA BUILDING CODE APPROVED NAILING SCHEDULES WHERE NAILING INFORMATION IS NOT PROVIDED.
7. REFER TO STEEL FASTENERS/HARDWARE AND PRESERVATIVE TREATMENT NOTES FOR ADDITIONAL INFORMATION.

STEEL FASTENERS AND HARDWARE

- 1. TYPE 316 STAINLESS STEEL SHALL BE USED FOR ALL FASTENERS, NUTS, WASHERS, PLATES, AND CONNECTORS EXPOSED TO SALT AIR.
2. FASTENERS AND CONNECTORS USED TOGETHER SHOULD BE OF THE SAME TYPE. DO NOT MIX HOT-DIPPED GALVANIZED ITEMS WITH STAINLESS STEEL.
3. BOLTS AND LAG SCREWS DIMENSIONAL REQUIREMENTS SHALL COMPLY WITH ANSI/ASME STANDARD B18.2.1 GRADE 2, SHALL PREFERABLY BE DOME HEAD TIMBER BOLTS, AND SHALL BE 316 STAINLESS STEEL.
4. 316 STAINLESS STEEL WASHERS SHALL BE PROVIDED UNDER BOLT AND LAG SCREW HEADS AND NUTS THAT ARE IN CONTACT WITH WOOD. WASHERS MAY BE OMITTED UNDER HEADS OF SPECIAL TIMBER BOLTS OR DOME HEAD BOLTS WHEN THE SIZE AND STRENGTH OF THE HEAD IS SUFFICIENT TO DEVELOP CONNECTION STRENGTH WITHOUT WOOD CRUSHING.

STRUCTURAL STEEL

- 1. ALL STEEL WORK (INCLUDING FABRICATION AND ERECTION) SHALL CONFORM TO THE AISC "MANUAL OF STEEL CONSTRUCTION, 14TH EDITION AND PROJECT SPECIFICATIONS, USE THE FOLLOWING:
A. CHANNELS, ANGLES, PLATES, AND MISCELLANEOUS STEEL: 316 STAINLESS STEEL
2. USE STRUCTURAL STEEL THAT IS FULLY WELDABLE WITHIN GRADES AND FROM ANY GRADE TO ANY OTHER GRADE. WELD ALL SHOP CONNECTIONS, UNLESS OTHERWISE NOTED.
3. ANCHOR BOLTS:
A. THREADED RODS, NUTS, AND WASHERS SHALL BE 316 STAINLESS STEEL.
B. ANY ANCHOR BOLTS / THREADED ROD NOT LISTED ABOVE SHALL BE STAINLESS STEEL GRADE 316 MATERIAL WITH HEAVY HEX NUTS AND HARDENED STEEL WASHERS, THAT ARE ALSO 316 STAINLESS STEEL.
C. ANCHOR BOLTS SHALL BE THREADED FOR FULL PROJECTION ABOVE ROUGH CONCRETE UNLESS OTHERWISE NOTED.
D. TIGHTEN ANCHOR BOLTS AS FOLLOWS: BRING ALL ANCHOR BOLTS TO A SNUG TIGHT CONDITION OBTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A PERSON USING AN ORDINARY SPUD WRENCH.
4. CUT, DRILL, OR PUNCH HOLES PERPENDICULAR TO WOOD SURFACES. DO NOT ENLARGE HOLES DURING FASTENER INSTALLATION.
5. PROVIDE TEMPORARY BRACING AS NECESSARY TO INSURE A STABLE STRUCTURE DURING CONSTRUCTION.

ANCHORS AND REINFORCING STEEL

- 1. SUBSTITUTION OF ANCHORS SPECIFIED BELOW FOR CAST-IN-PLACE EMBEDDED ANCHORS SHALL BE PROHIBITED WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER OF RECORD.
2. ALLOWABLE WORKING LOADS SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATIONS, BUT NOT MORE THAN ACCEPTED BY APPROVING AGENCY. NO INCREASE FOR WIND OR SEISMIC LOADS IS PERMITTED.
3. PROVIDE A MINIMUM OF TWO 316 STAINLESS STEEL FASTENERS PER CONNECTION.
4. INSTALL AND MAINTAIN A MINIMUM EMBEDMENT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, OR AS SPECIFIED ON DRAWING, WHICHEVER IS GREATER, BUT WITH AN EMBEDMENT OF NOT LESS THAN 6 BOLT-DIAMETERS.
5. UNLESS NOTED, ANCHOR SPACING AND ANCHOR EDGE DISTANCE SHALL BE ACCORDING TO THE MANUFACTURER'S MOST CURRENT PUBLICATION IN ORDER TO DEVELOP MAXIMUM WORKING LOADS.
6. DO NOT EXCEED MANUFACTURER'S MAXIMUM RECOMMENDED TIGHTENING TORQUE.
7. ALL ANCHORS SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND UNDER MANUFACTURER CERTIFIED SUPERVISION IN ORDER TO DEVELOP THE MOST CURRENT PUBLISHED WORKING LOADS.
8. EXPANSION ANCHORS: USE 316 STAINLESS STEEL WEDGE-TYPE EXPANSION ANCHORS SUCH AS HILTI KWIK BOLT III OR ENGINEERED APPROVED EQUIVALENT.
9. ADHESIVE ANCHORING SYSTEMS:
A. USE AN EPOXY OR POLYESTER RESIN ADHESIVE SUCH AS HILTI RE 500, SIMPSON SET OR ACCEPTED ALTERNATE.
B. DIAMETER OF HOLE SHALL BE AS RECOMMENDED BY MANUFACTURER FOR THE PARTICULAR PRODUCT SPECIFIED IN THE DRAWINGS.
C. ALL EPOXIED ANCHORING SHALL BE OBSERVED BY A MANUFACTURER'S AUTHORIZED REPRESENTATIVE OR SHALL BE TESTED AFTER INSTALLATION AT CONTRACTOR'S EXPENSE. A MINIMUM OF 10% OF EACH DAY'S APPLICATIONS AND NO LESS THAN 2 SHALL BE TESTED BY APPLYING A TENSION LOAD OF 3000 POUNDS TO THE EMBEDDED ANCHOR. IF A TEST APPLICATION FAILS, ALL APPLICATIONS FOR THAT DAY SHALL BE TESTED. TESTING PROCEDURES AND RESULTS SHALL BE SUBMITTED TO APPROVED BY ENGINEER.
10. POWDER ACTUATED FASTENERS: USE POWDER ACTUATED FASTENING SYSTEMS SUCH AS HILTI, RED HEAD, RAMSET, OR AN ACCEPTED ALTERNATE HAVING ICBO, OR SBCCI APPROVAL. INSTALL IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, BUT NOT LESS THAN 1 1/8" INCHES IN CONCRETE, UNLESS OTHERWISE NOTED.
11. ALL ANCHORS SHALL BE 316 STAINLESS STEEL.

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MOTT MACDONALD logo and contact information: Mott MacDonald, Florida, LLC, 220 West Garden Street, Suite 700, Pensacola, Florida 32502, United States of America, Telephone: (850) 484-6011, www.mottmac.com/americas

Architects AA - C000035 Engineers EB - 0000155 Surveyors LB - 0006783

Client: Okaloosa County Board of County Commissioners

Title: Veterans Park East Lobe Expansion

GENERAL NOTES: ISSUED FOR BID. THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY: CHAD E. LYNER.

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Table with project information: Project Number 502101659-011, B/O 0, Total 0. Includes Designed, Drawn, Dwg Check, Scale, Status, Rev, Security, and Drawing Number S-001.

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REINFORCED CONCRETE

1. USE STRUCTURAL CONCRETE AND CONCRETING PRACTICES CONFORMING TO ACI-316 AND 301 AND PROPORTION CONCRETE IN ACCORDANCE WITH ACI-318 CH. 4 AND MEETING A MIN. ULTIMATE COMPRESSIVE STRENGTH IN 28 DAYS AS FOLLOWS:

- ALL CONCRETE: 4000 PSI

* PROVIDE CURRENT (MAXIMUM 1 YEAR OLD) STATISTICAL DATA FOR EACH CONCRETE MIX DESIGN SUBMITTED.

2. WHERE CONCENTRATION OF REINFORCING STEEL HINDERS PROPER CONSOLIDATION OF CONCRETE, USE CONCRETE CONTAINING A SUPERPLASTICIZING (N.R.W.R.) ADMIXTURE, ASTM C494 TYPE F. SLUMP AFTER ADDITION OF SUPERPLASTICIZER SHALL BE 7" ±1".

3. IF CONCRETE IS PUMPED, SLUMP MAY BE INCREASED TO 6" AT THE TRUCK. USE A MINIMUM 4-INCH PUMP, UNLESS PRE-APPROVED BY ENGINEER. TAKE CONCRETE SAMPLES FOR SLUMP AT TRUCK AND AT DISCHARGE END. TAKE CONCRETE SAMPLES FOR CYLINDER TESTING AT DISCHARGE END OF THE PUMP HOSE.

4. PROVIDE CONSTRUCTION JOINTS IN ACCORDANCE WITH ACI 318 CH. 6.4 AND SUBMIT SHOP DRAWINGS SHOWING LOCATIONS AND DIRECTION OF CONCRETE PLACEMENT FOR STRUCTURAL ENGINEER'S REVIEW. PROVIDE KEY WAYS AND ADEQUATE DOWELS IN ALL CONSTRUCTION JOINTS.

5. PROVIDE REINFORCING STEEL ERECTOR WITH A SET OF STRUCTURAL PLANS FOR FIELD USE. INSPECT REINFORCING STEEL PLACING FROM STRUCTURAL PLANS.

6. USE ASTM A-615 GR. 60 FOR ALL REINFORCING STEEL, CONFORM TO ACI-301, ACI-315, ACI-318, AND CRSI "MANUAL OF STANDARD PRACTICE". ALL REINFORCING SHALL BE ACCURATELY PLACED, RIGIDLY SUPPORTED AND FIRMLY TIED IN PLACE WITH BAR SUPPORTS AND SPACERS IN ACCORDANCE WITH THE ABOVE REQUIREMENTS. PROVIDE CLASS 'B' LAP SPLICE FOR CONTINUOUS BARS, UNLESS OTHERWISE NOTED. LAP BOTTOM STEEL OVER SUPPORTS AND TOP STEEL AT MID SPAN UNLESS OTHERWISE SPECIFIED. HOOK DISCONTINUOUS ENDS OF ALL TOP BARS AND ALL BARS IN WALLS, UNLESS OTHERWISE NOTED.

7. PLACE REINFORCING STEEL SUCH THAT BARS ADJACENT TO CONCRETE SURFACES & COLD JOINTS MEET MIN CLEAR COVER REQUIREMENTS, BUT DO NOT EXCEED THOSE REQUIREMENTS. USE THE FOLLOWING MINIMUM CLEAR COVER OVER REINFORCING:

Table with 3 columns: BOTTOM, TOP, SIDES and values: 3", 2", 3"

8. HORIZONTAL BARS SHALL BE MADE CONTINUOUS WITH HOOKS AROUND CORNERS.

9. USE PLAIN, COLD-DRAWN ELECTRICALLY-WELDED STEEL WIRE FABRIC CONFORMING TO ASTM A185. SUPPLY IN FLAT SHEETS ONLY. LAP SPLICES SHALL BE MEASURED BETWEEN OUTERMOST CROSS WIRES OF EACH FABRIC SHEET AND SHALL BE NOT LESS THAN TWICE THE SPACING OF THE CROSS WIRES PLUS TWO (2) INCHES.

10. SLEEVE ALL PIPES THROUGH SLABS INDIVIDUALLY, UNLESS APPROVED BY ENGINEER.

11. SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATING REINFORCING STEEL. DO NOT REPRODUCE THE STRUCTURAL DRAWINGS FOR USE AS SHOP DRAWINGS.

12. PROVIDE CLASS 'B' LAP SPLICE AT SUPPORTS AND HOOK DISCONTINUOUS ENDS AT THE FAR FACE OF SUPPORTS FOR ALL BEAMS UNLESS OTHERWISE NOTED.

13. REINFORCING PLACED IN LOCATIONS WHERE PROPER COVER CANNOT BE ACHIEVED SHALL BE HOT DIPPED GALVANIZED ACCORDING TO ASTM A767 WITH 2 OUNCES OF ZINC COATING PER SQUARE FOOT OF SURFACE AREA MINIMUM.

14. ALL EXPOSED CONCRETE AND GROUT EDGES SHALL HAVE 3/4", 45° CHAMFER, UNLESS OTHERWISE NOTED.

SHALLOW FOUNDATIONS

1. THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER OF RECORD SHALL BE FOLLOWED. GEOTECHNICAL ENGINEER OF RECORD REPORT.

2. DO NOT EXCAVATE FOR ANY PURPOSE WITHIN ONE FOOT OF THE ANGLE OF REPOSE OF ANY SOIL BEARING FOOTING OR FOUNDATION UNLESS SUCH FOOTING OR FOUNDATION IS FIRST PROPERLY PROTECTED AGAINST SETTLEMENT.

3. CENTER FOOTINGS UNDER THE SUPPORTED COLUMNS OR WALLS UNLESS OTHERWISE NOTED ON PLANS.

4. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT.

5. THE CONTRACTOR IS RESPONSIBLE FOR THE DISPOSAL OF ACCUMULATED WATER FROM EXCAVATION AND DEWATERING OPERATIONS IN SUCH A WAY AS NOT TO CAUSE INCONVENIENCE TO THE WORK AND DAMAGE TO THE STRUCTURAL ELEMENTS. THE CONTRACTOR SHALL FIELD VERIFY GROUND WATER DEPTHS PRIOR TO CONSTRUCTION.

TEMPORARY BRACING

1. THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AS REQUIRED DURING CONSTRUCTION.

2. THE CONTRACTOR SHALL RETAIN AT THE CONTRACTOR'S EXPENSE A REGISTERED STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT TO DESIGN AND INSPECT ALL TEMPORARY SHORING AND BRACING. SIGNED, SEALED AND DATED DESIGN CALCULATIONS SHALL BE SUBMITTED FOR REVIEW WHEN REQUESTED.

REFERENCE DATUM AND FLOOD DATA

1. THE SUBJECT PROPERTY AS SHOWN HEREON IS LOCATED IN FLOOD ZONES AE, BASE FLOOD ELEVATION (BFE) 10, AS DETERMINED FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP OF OKALOOSA COUNTY, FLORIDA, COMMUNITY, FIRM MAP PANEL NUMBER 12091C0463H AND 12091C0464H, MAP REVISION DATED MARCH 09, 2021.

2. ELEVATIONS INDICATED ON PLANS AND DETAILS ARE NAVD 88 ELEVATIONS. COORDINATE ADDITIONAL ELEVATIONS WITH CIVIL DRAWINGS.

CONSTRUCTION LOADS

1. CONTRACTOR IS RESPONSIBLE FOR ADEQUATE SHORING, BRACING, AND GUYING OF ALL COMPONENTS AS REQUIRED FOR SAFETY AND STRUCTURAL INTEGRITY THROUGHOUT CONSTRUCTION IN ACCORDANCE WITH SOUND PRACTICE.

PROTECTION OF PROPERTY

1. EXISTING PARKING LOTS, DRIVES, AND ENTRYWAYS SHALL REMAIN OPERATIONAL AT ALL TIMES.

2. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO FULLY PROTECT THE ENVIRONMENT, THE WORKERS, TRAFFIC, PEDESTRIANS, PARKED VEHICLES, AND ADJACENT PROPERTY, AND OTHER PORTIONS OF THE STRUCTURES FROM DAMAGE.

3. THE CONTRACTOR SHALL TAKE DUE PRECAUTION AGAINST DAMAGING ANY PORTION OF THE BOARDWALK.

4. TARPS OR OTHER COVERING MATERIAL SHALL BE USED TO PROTECT EXISTING FACILITIES, SIDEWALKS, LANDSCAPING, VEHICLES, PEDESTRIANS, AND OTHER PORTIONS OF THE BOARDWALK.

5. ANY INADVERTENT DAMAGE WHICH MAY OCCUR BY REASON OF THE CONTRACTOR'S OPERATIONS SHALL IMMEDIATELY BE REPAIRED TO THE SATISFACTION OF THE CONSULTANT AND OWNER AT THE CONTRACTOR'S EXPENSE.

6. INSTALL TEMPORARY BARRICADES AND/OR FENCES AS REQUIRED AROUND WORK ZONES TO PREVENT PEDESTRIAN OR VEHICULAR ENTRANCE.

7. ANY DAMAGE TO EXISTING ROADS, PARKING LOTS, AND ENTRYWAYS DURING CONSTRUCTION WILL BE REPAIRED BY THE CONTRACTOR PRIOR TO FINAL "AS-BUILT" SIGN OFF FROM THE COUNTY.

CONSTRUCTION

1. THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE LOCAL ENVIRONMENTAL PROTECTION STANDARDS, PERMITTING LAWS, AND REGULATIONS.

2. ALL APPLICABLE SAFETY REGULATIONS SHALL BE STRICTLY FOLLOWED, METHODS OF DEMOLITION, CONSTRUCTION, AND INSTALLATION OF STRUCTURAL MATERIAL ARE THE CONTRACTOR'S RESPONSIBILITY.

3. LIMITED STAGING AREA WILL BE PROVIDED ON-SITE FOR CONTRACTOR'S USE. CONTRACTOR SHALL CONFIRM THE EXTENT AND LOCATION OF STAGING AREAS WITH OKALOOSA COUNTY. PRIOR TO MOBILIZATION, CONTRACTOR SHALL INSPECT THE LIMITATIONS OF THE PROJECT SITE FOR STORING MATERIAL. CONTRACTOR SHALL COORDINATE WORK IN SUCH A WAY AS TO LIMIT THE NEED FOR STORED MATERIALS OR SHALL BE RESPONSIBLE FOR ALL ARRANGEMENTS AND COSTS FOR OBTAINING LAYDOWN AREA AS MAY BE REQUIRED.

4. UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE DISTURBING ACTIVITIES. ANY UTILITY LINES LOCATED IN THE PROJECT AREA SHALL BE PROTECTED UNLESS SPECIFICALLY CALLED OUT TO BE DEMOLISHED.

5. CONTRACTOR IS RESPONSIBLE TO REVIEW SITE CONDITIONS TO DEVELOP AN APPROPRIATE WORK PLAN FOR MOBILIZING AND CONDUCTING WORK AT THE SITE.

6. CARE MUST BE TAKEN SO AS TO NOT DAMAGE THE EXISTING PIER AND OTHER STRUCTURES, FROM CONSTRUCTION LOADING, OR OTHERWISE. IF ANY DAMAGE IS OBSERVED ON THE EXISTING STRUCTURES DURING THE EXECUTION OF CONSTRUCTION WORK, ALL WORK AT SUCH LOCATION SHALL CEASE AND THE COUNTY SHALL BE CONTACTED TO REVIEW SUCH DAMAGES PRIOR TO WORK RESUMPTION.

7. CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL DAMAGE TO EXISTING STRUCTURES THAT RESULT FROM CONSTRUCTION ACTIVITIES AT NO COST TO THE COUNTY.

DEMOLITION

1. DEBRIS SHALL BE REMOVED FROM THE WORK AREA ON A DAILY BASIS TO ENSURE NO ENVIRONMENTAL IMPACT. DISPOSAL OF ALL MATERIALS REMOVED AND/OR DEMOLISHED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND BE PERFORMED LEGALLY AND SAFELY AT AN APPROVED FACILITY.

ENVIRONMENTAL CONTROLS

1. CONTRACTOR SHALL IMPLEMENT AND ABIDE ALL REGULATORY ENVIRONMENTAL REQUIREMENTS AS SPECIFIED IN THE ENVIRONMENTAL PERMITS SECURED FOR THE PROJECT. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO COMPLY WITH ALL REGULATORY PERMIT REQUIREMENTS.

PLUMBNESS, LEVELNESS, TRUENESS, AND RIGID:

- 1. CONTRACTOR SHALL INSTALL PILING PLUMB, TRUE, AND RIGID.
2. CONTRACTOR SHALL INSTALL PILING IN ALIGNMENT WITH RESPECT TO THE BOARDWALK AND EACH ADJACENT PILING.
3. CONTRACTOR SHALL INSTALL PILE CAP LEVEL, TRUE, AND RIGID.
4. CONTRACTOR SHALL INSTALL STRINGER LEVEL, TRUE, AND RIGID TO ENSURE A FLAT AND LEVEL DECK BOARD SURFACE.
5. CONTRACTOR SHALL INSTALL DECK BOARDS LEVEL, TRUE, AND RIGID TO ENSURE A SMOOTH AND LEVEL WALKING SURFACE MEETING ADA REQUIREMENTS.
6. CONTRACTOR SHALL INSTALL GUARDRAIL POSTS PLUMB, TRUE, AND RIGID PERPENDICULAR TO THE DECK BOARDS AND STRINGERS.
7. CONTRACTOR SHALL INSTALL ALL GUARDRAIL BOARDS LEVEL, TRUE, AND RIGID WITH RESPECT TO THE GUARDRAIL POSTS AND BOARDWALK DECK SURFACE.

STANDARD STRUCTURAL ABBREVIATIONS

Table with 2 columns: Abbreviation and Full Name. Includes AB (Anchor Bolt), EJ (Expansion Joint), EXIST (Existing), etc.

Table with 2 columns: Abbreviation and Full Name. Includes PLY (Plywood), PC (Precast), PREFAB (Prefabricated), etc.

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Mott MacDonald logo and contact information: Mott MacDonald, Florida, LLC, 220 West Garden Street, Suite 700, Pensacola, Florida 32502.

Client: Okaloosa County Board of County Commissioners

Title: Veterans Park East Lobe Expansion

STRUCTURAL NOTES
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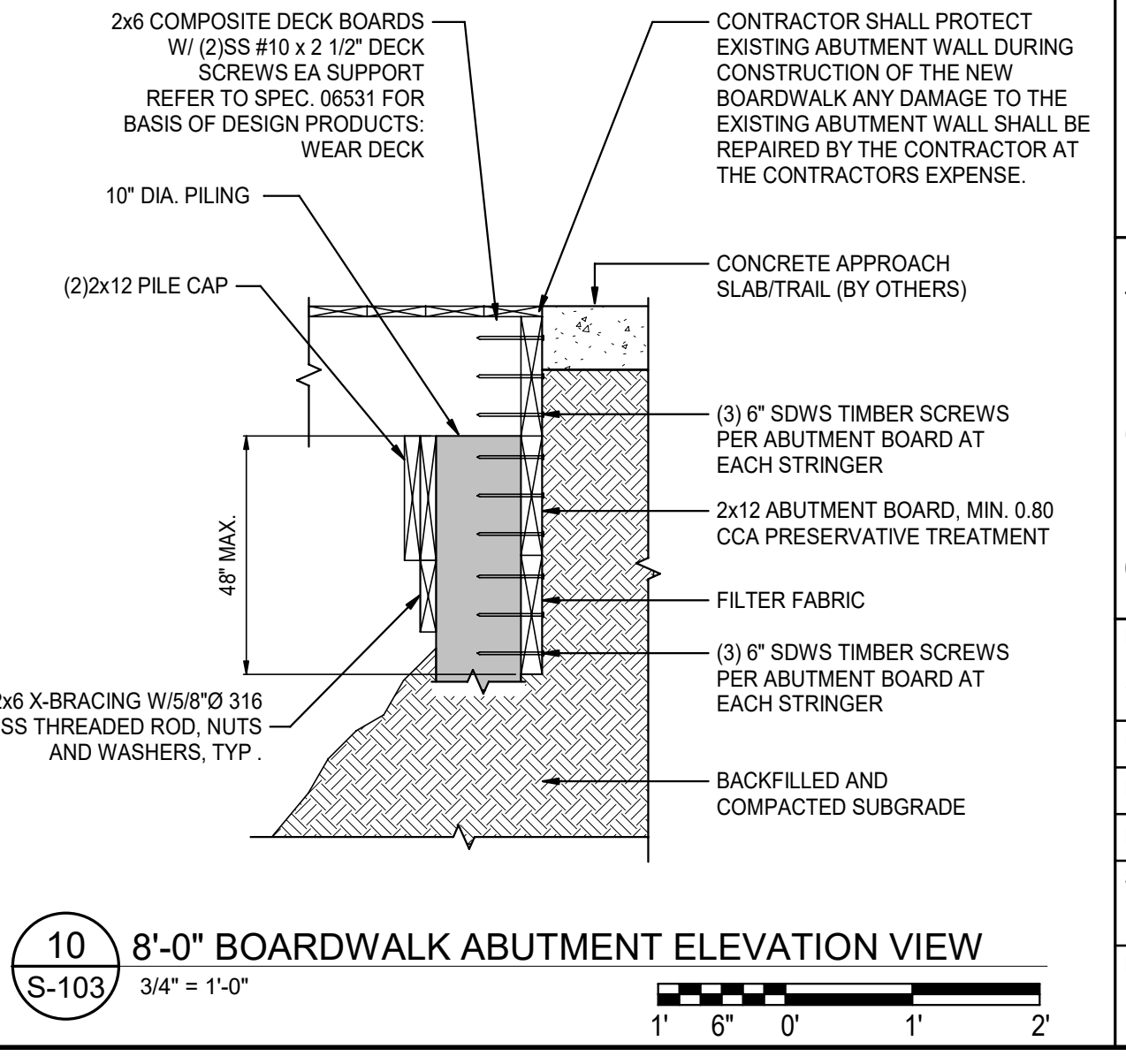
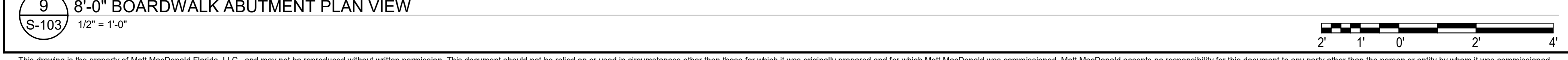
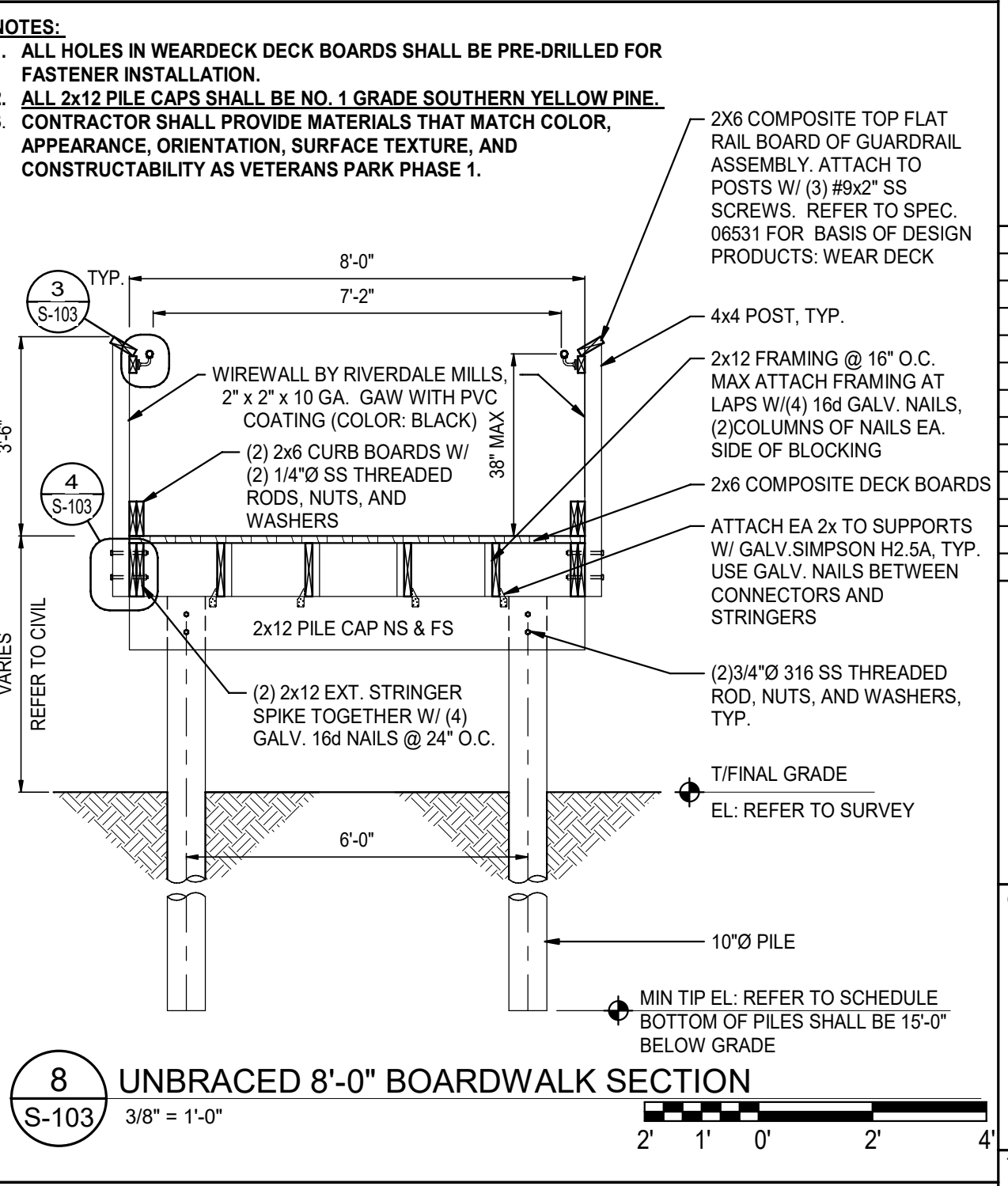
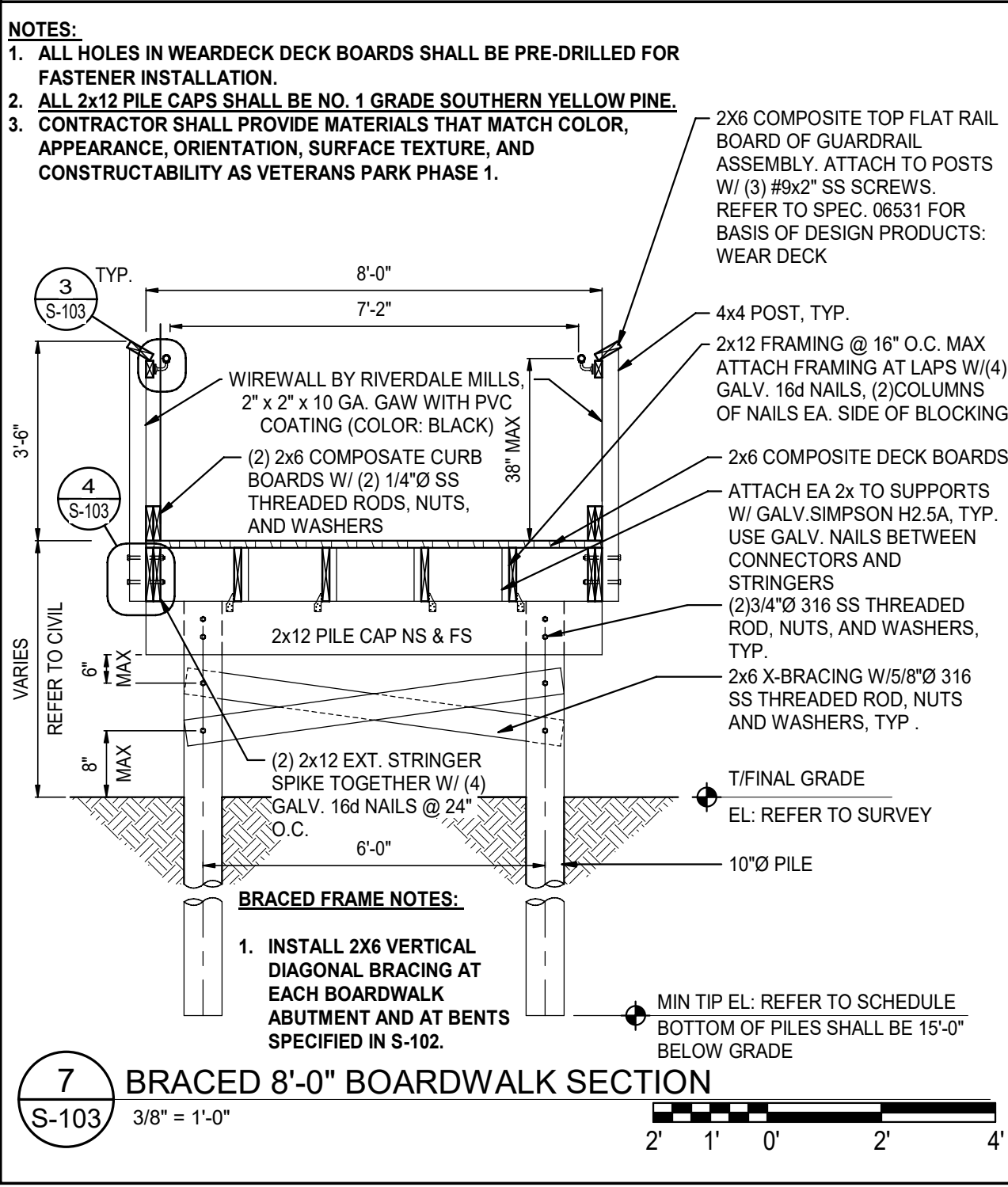
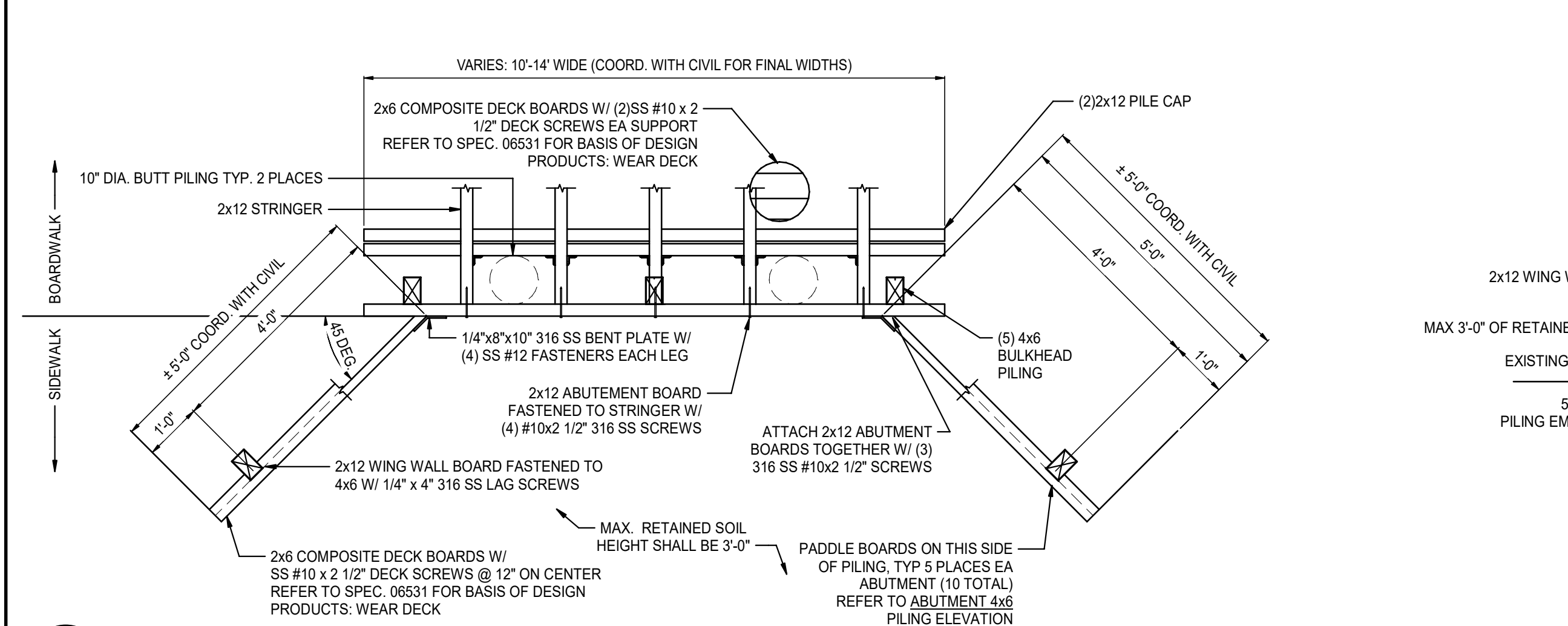
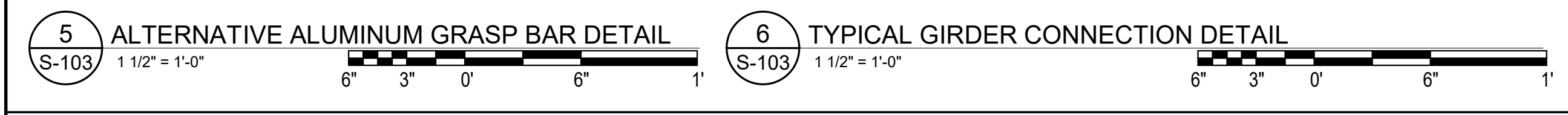
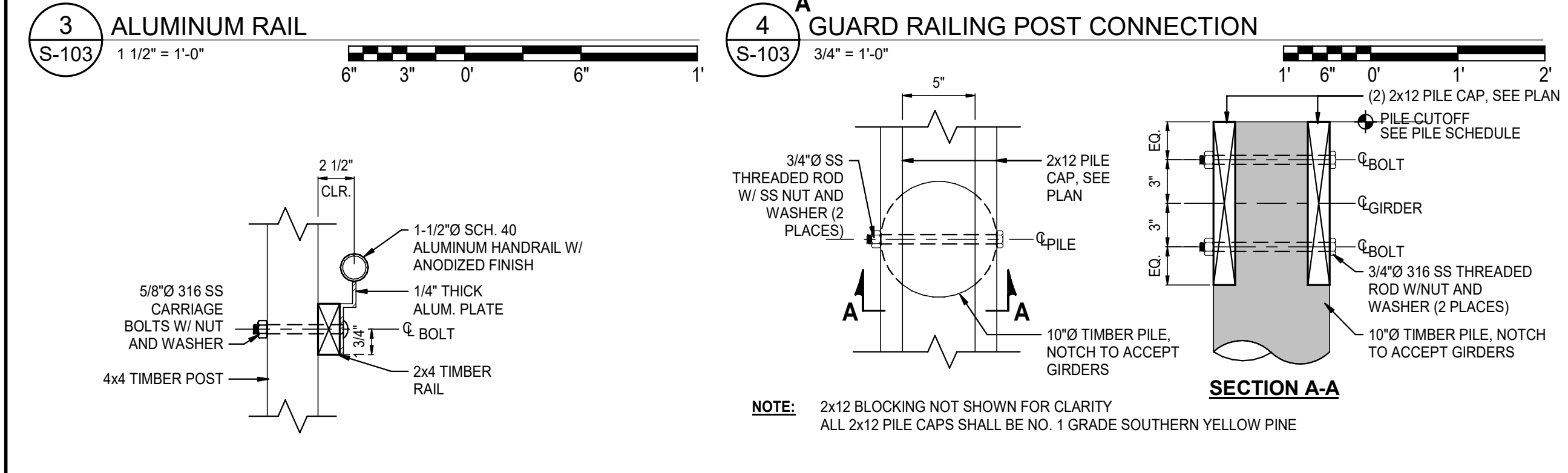
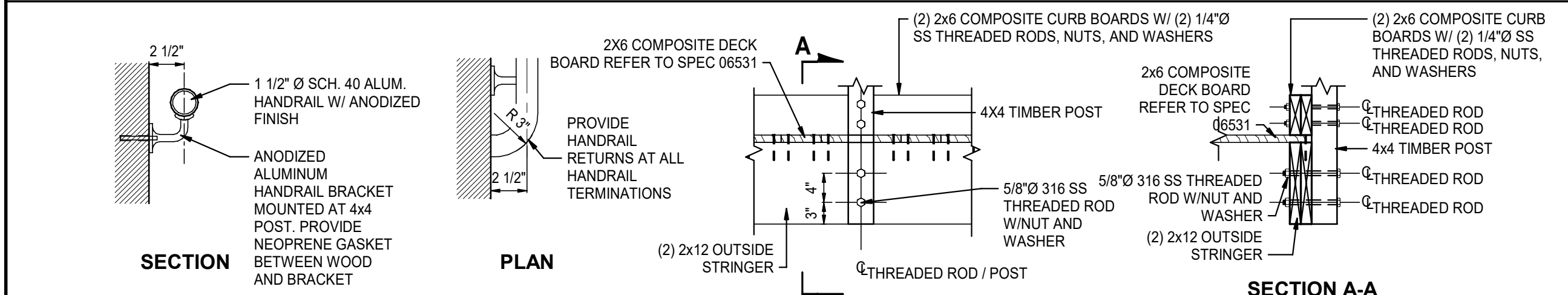
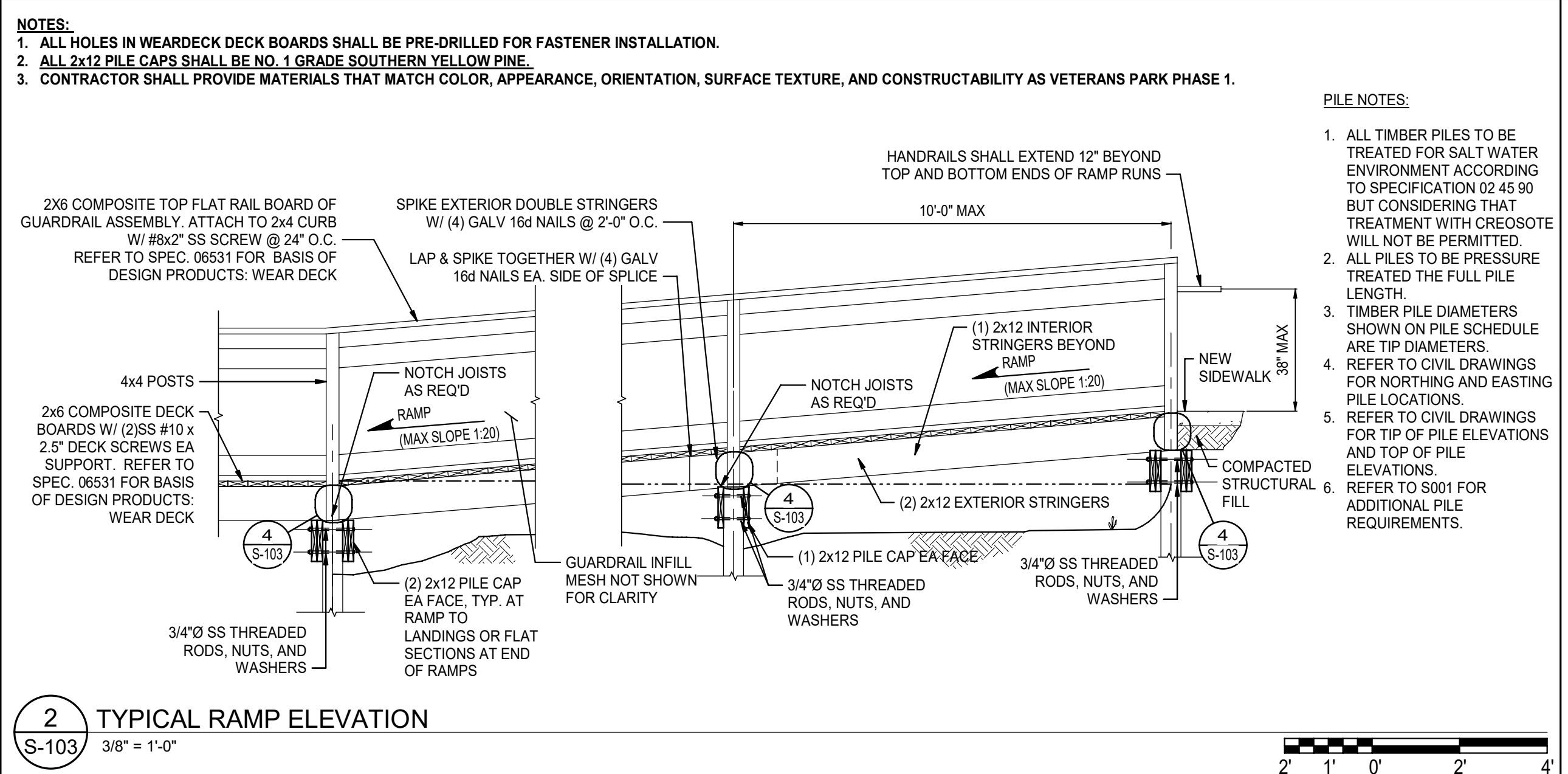
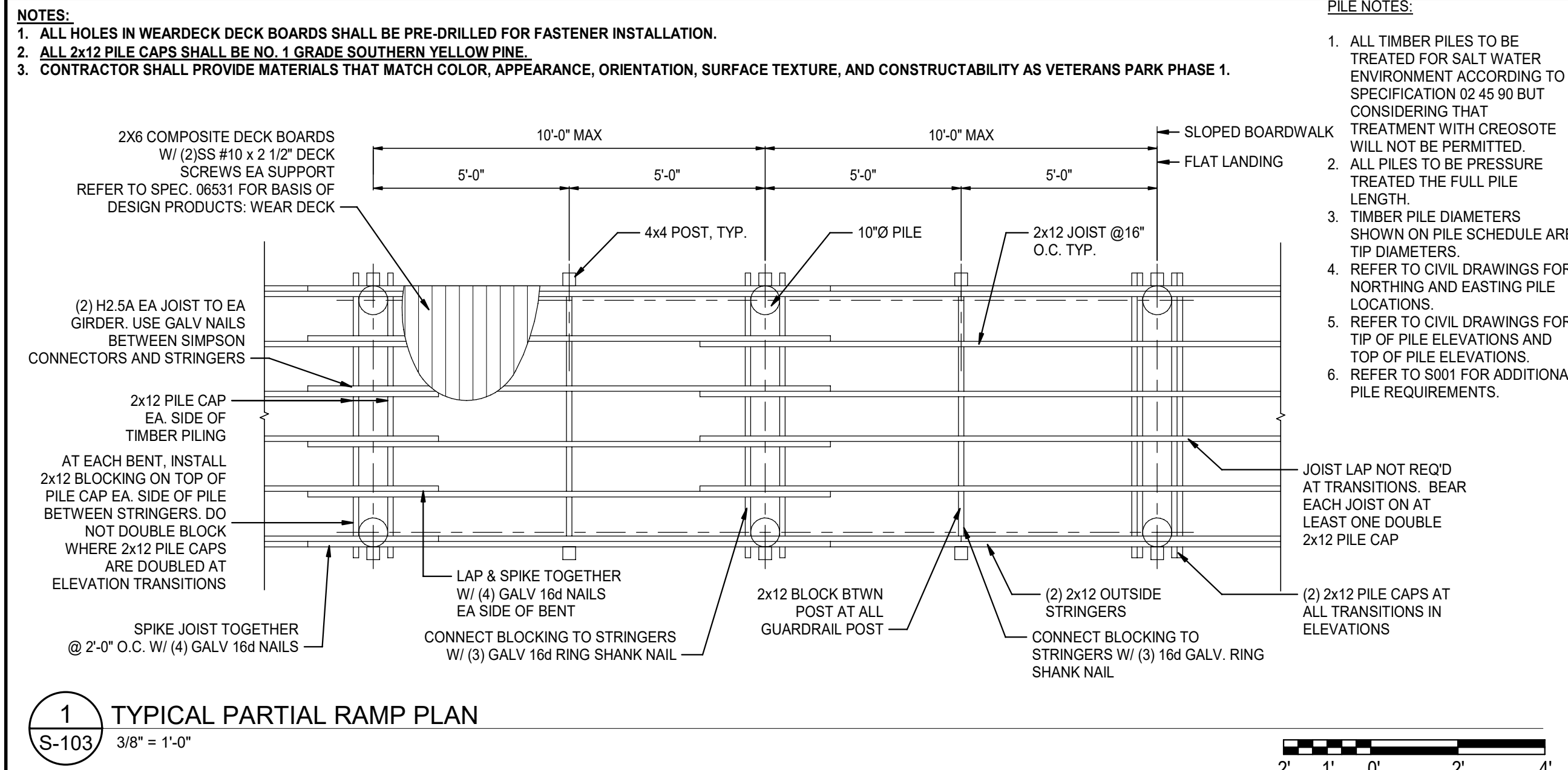
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Drawing Number S-002

Veterans Park East Lobe Expansion

502101659-011

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 Architects Engineers Surveyors
 AA - C000035 EB - 0000155 LB - 0006783

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Client
Okaloosa County Board of County Commissioners

Title
Veterans Park East Lobe Expansion

BOARDWALK SECTIONS AND DETAILS

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Designed C. LYNER	Eng Check C. LYNER	
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