

CONSTRUCTION PLANS FOR:

MANATEE COOLING POND CONCRETE OVERLAY

(STA. 285+00 TO STA. 295+00)

FLORIDA POWER & LIGHT COMPANY

MANATEE COUNTY, FLORIDA

AMEC FOSTER WHEELER PROJECT NUMBER: 300906

GOVERNING STANDARDS AND SPECIFICATIONS:
 FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS FOR CONSTRUCTION, MAINTENANCE, AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM; CURRENT VERSION

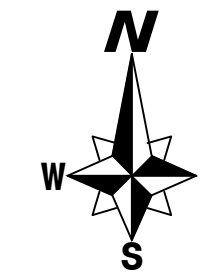
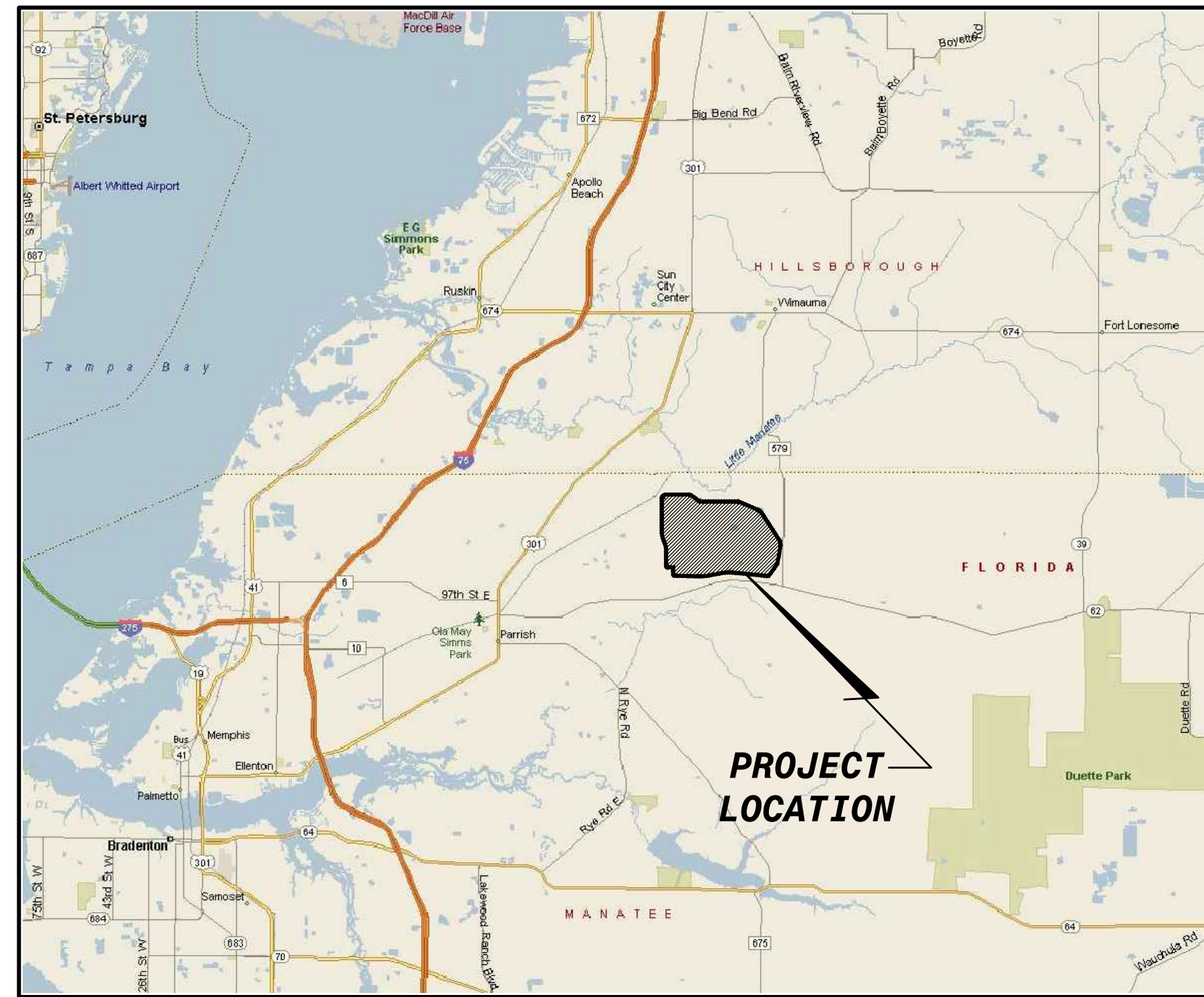
FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION; CURRENT VERSION

SURVEY PROVIDED BY:
George F. Young, Inc.
 299 Dr. Martin Luther King Jr. Street North
 St. Petersburg, FL 33701

PLANS PREPARED BY:



Amec Foster Wheeler
 Environment & Infrastructure, Inc.
 2000 E. Edgewood Dr., Suite 215, Lakeland, FL 33803
 Phone: 1.863.667.2345 Fax: 1.863.667.2667
 www.amecfw.com CA-5392



S I T E L O C A T I O N M A P
MANATEE COUNTY, FLORIDA
SECTION 8, TOWNSHIP 33 SOUTH, RANGE 20 EAST

INDEX OF DRAWINGS	
Sheet Number	Sheet Title
1	COVER SHEET
2	AERIAL PHOTOGRAPH AND PROJECT LIMITS
3	PROJECT LAYOUT PLAN
4	EXISTING SOIL-CEMENT TOPOGRAPHY
5	TYPICAL CONCRETE OVERLAY SECTION AND DETAILS
6	KEY AND CONSTRUCTION JOINT DETAILS
7 - 12	SOIL CEMENT CROSS SECTIONS

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.



Know what's below.
 Call before you dig.

CONTRACTOR IS TO VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

NOTE:
 CONSTRUCTION PLANS ARE AVAILABLE IN AUTODESK CIVIL 3D FORMAT ONLY.
 ANY FILE CONVERSIONS WILL BE AT THE CONTRACTOR'S EXPENSE.

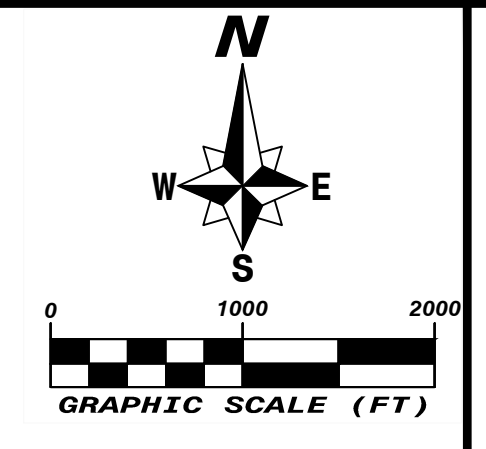
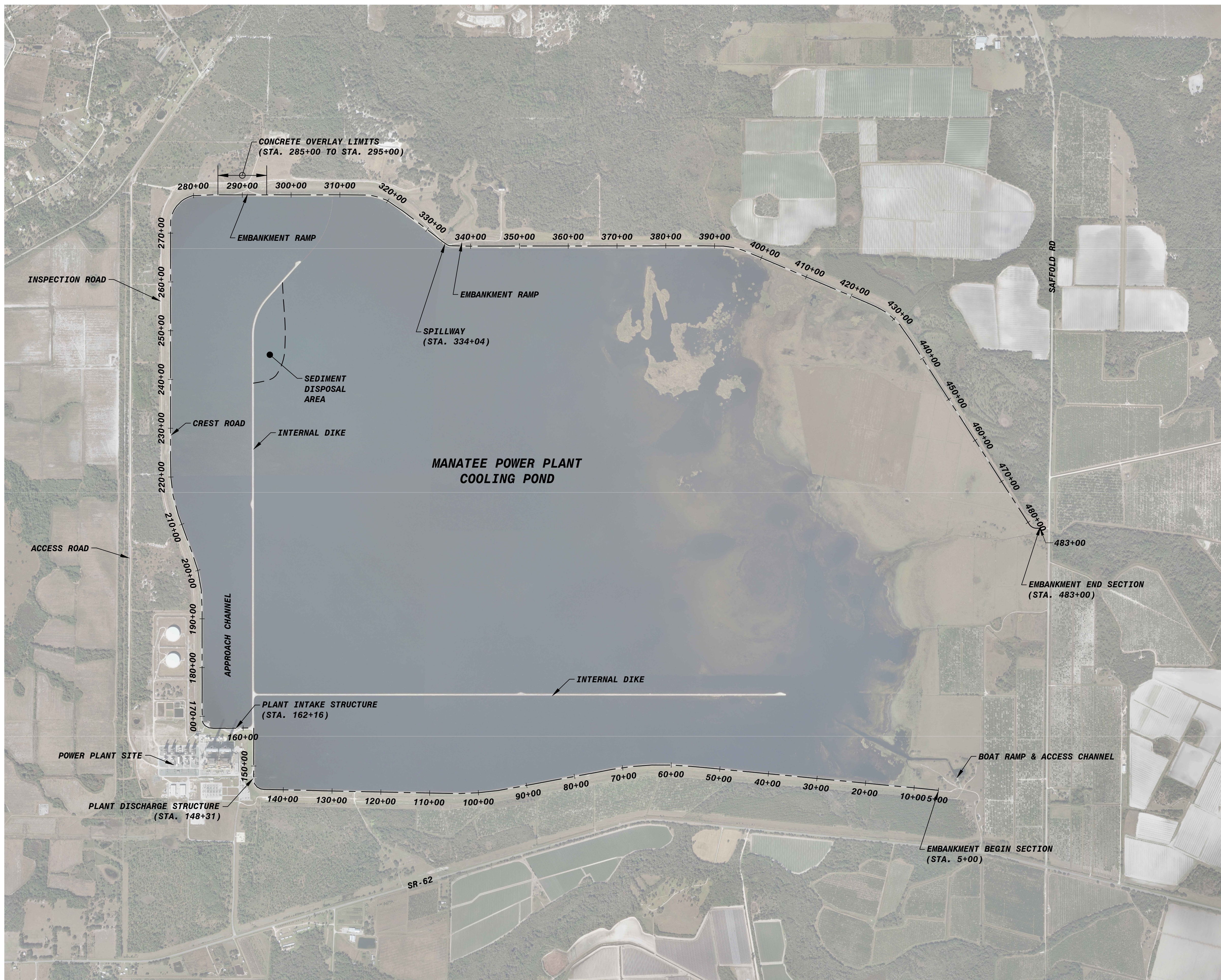
I HEREBY CERTIFY THAT I AM A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA PRACTICING WITH AMEC FOSTER WHEELER ENVIRONMENT & INFRASTRUCTURE, INC., 2000 E. EDGEWOOD DRIVE, SUITE 215, LAKELAND, FL 33803, A CORPORATION AUTHORIZED TO OPERATE AS A BUSINESS PROVIDING ENGINEERING CONSULTING SERVICES (CA-5392) BY THE STATE OF FLORIDA DEPARTMENT OF PROFESSIONAL REGULATION, BOARD OF PROFESSIONAL ENGINEERS. I FURTHER CERTIFY THAT I, OR OTHERS UNDER MY DIRECT SUPERVISION, HAVE PREPARED THE ENGINEERING EVALUATIONS, FINDINGS, OPINIONS, CALCULATIONS OR TECHNICAL ADVICE HEREBY REPRESENTED IN THESE PLANS.

SIGNATURE: _____
 NAME: JEFF BERISWILL, P.E.
 P.E. NUMBER: 41823
 DATE: _____


Rev	Date	Description	Sheets

REVISIONS

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NO.	DATE	REVISION



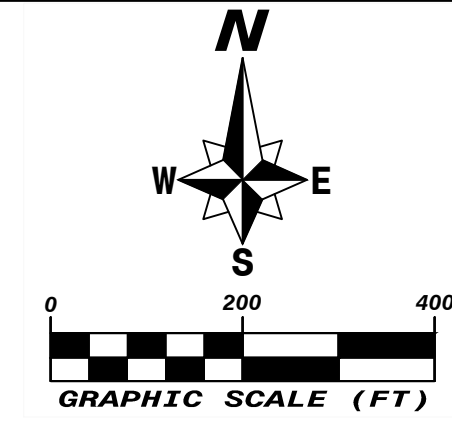
amec foster wheeler
 Amec Foster Wheeler
 Environment & Infrastructure, Inc.
 2015 E. Main Street, Suite 300
 Parrish, FL 32667
 Phone: 863.667.2345 Fax: 863.667.2667
 www.amecfcw.com CA-5392

MANATEE COOLING POND CONCRETE OVERLAY
FLORIDA POWER & LIGHT COMPANY
AERIAL PHOTOGRAPH AND PROJECT LIMITS
PARRISH, FLORIDA

DATE: July 8, 2015
 DRAWN BY: MAJ
 CHECKED BY: JAB
 PROJECT NO.: 300906


JEFF BERTSWILL, P.E.
 FLA. REG. NO. 41823
 DATE:

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AERIAL SOURCE: MANATEE ORTHOPHOTOS - 2014

NO.	DATE	REVISION



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MANATEE COOLING POND CONCRETE OVERLAY

FLORIDA POWER & LIGHT COMPANY

PROJECT LAYOUT PLAN

PARRISH, FLORIDA

DATE: July 8, 2015

 DRAWN BY: MAJ

 CHECKED BY: JAB

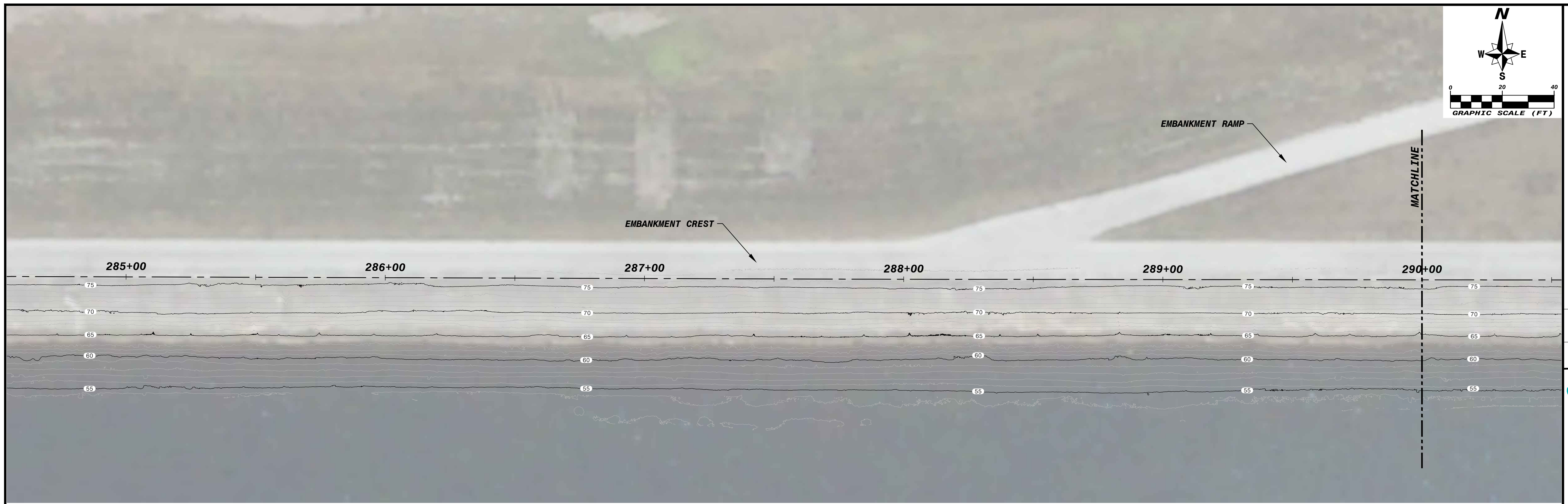
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JEFF BERTSWILL, P.E.

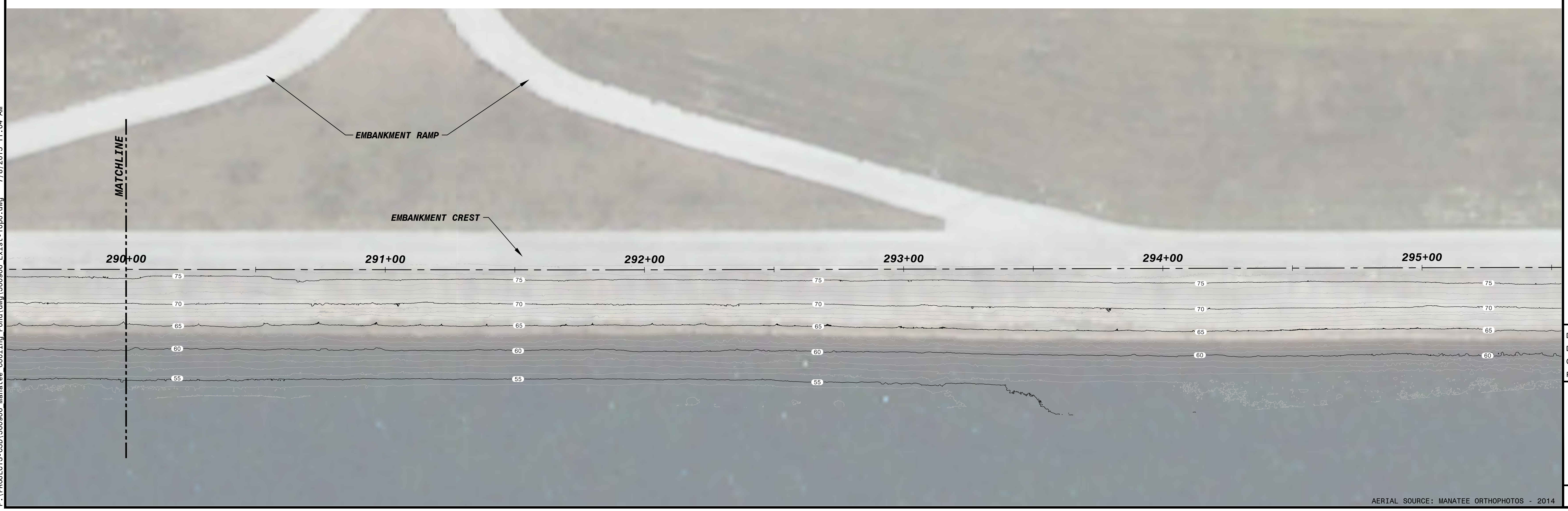
 FLA. REG. NO. 41823

DATE:

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NOTES:
 1. TOPOGRAPHY IS BASED ON COMBINED LIDAR/SONAR SURVEY BY GEORGE F. YOUNG, INC. WITH A GENERAL ACCURACY OF 0.5'±.
 2. ELEVATIONS SHOWN ARE NAVD88, FEET.



NO.	DATE	REVISION

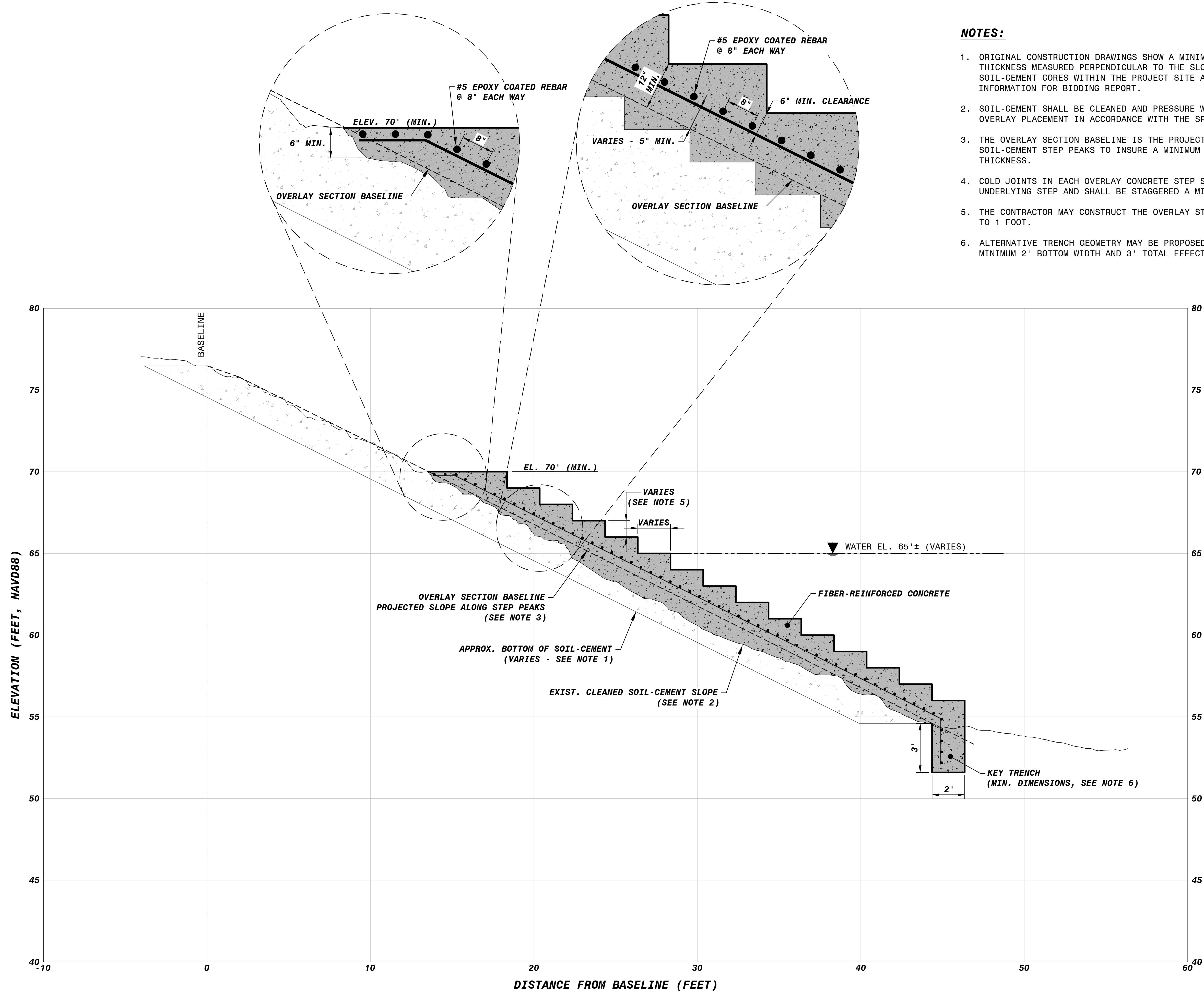
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MANATEE COOLING POND CONCRETE OVERLAY
FLORIDA POWER & LIGHT COMPANY
EXISTING SOIL-CEMENT TOPOGRAPHY
PARRISH, FLORIDA

DATE: July 8, 2015
 DRAWN BY: MAJ
 CHECKED BY: JAB
 PROJECT NO.: 300906

JEFF BERTSWILL, P.E.
 FLA. REG. NO. 41823
 DATE:

P:\PROJECTS-CSD\300906 Manatee Cooling Pond.dwg, 300906 Repair-Section.dwg 7/8/2015 11:04 AM



NOTES:

1. ORIGINAL CONSTRUCTION DRAWINGS SHOW A MINIMUM 2.0' SOIL-CEMENT THICKNESS MEASURED PERPENDICULAR TO THE SLOPE. LOGS OF VERTICAL SOIL-CEMENT CORES WITHIN THE PROJECT SITE ARE PROVIDED IN THE SITE INFORMATION FOR BIDDING REPORT.
2. SOIL-CEMENT SHALL BE CLEANED AND PRESSURE WASHED PRIOR TO CONCRETE OVERLAY PLACEMENT IN ACCORDANCE WITH THE SPECIFICATIONS.
3. THE OVERLAY SECTION BASELINE IS THE PROJECTED SLOPE ALONG EXISTING SOIL-CEMENT STEP PEAKS TO INSURE A MINIMUM 1' CONCRETE OVERLAY THICKNESS.
4. COLD JOINTS IN EACH OVERLAY CONCRETE STEP SHALL NOT ALIGN WITH THE UNDERLYING STEP AND SHALL BE STAGGERED A MINIMUM OF 10 FEET.
5. THE CONTRACTOR MAY CONSTRUCT THE OVERLAY STEP HEIGHT BETWEEN 6 INCHES TO 1 FOOT.
6. ALTERNATIVE TRENCH GEOMETRY MAY BE PROPOSED AS LONG AS IT HAS A MINIMUM 2' BOTTOM WIDTH AND 3' TOTAL EFFECTIVE DEPTH.

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MAMATEE COOLING POND CONCRETE OVERLAY
FLORIDA POWER & LIGHT COMPANY
TYPICAL CONCRETE OVERLAY
SECTION AND DETAILS
PARRISH, FLORIDA

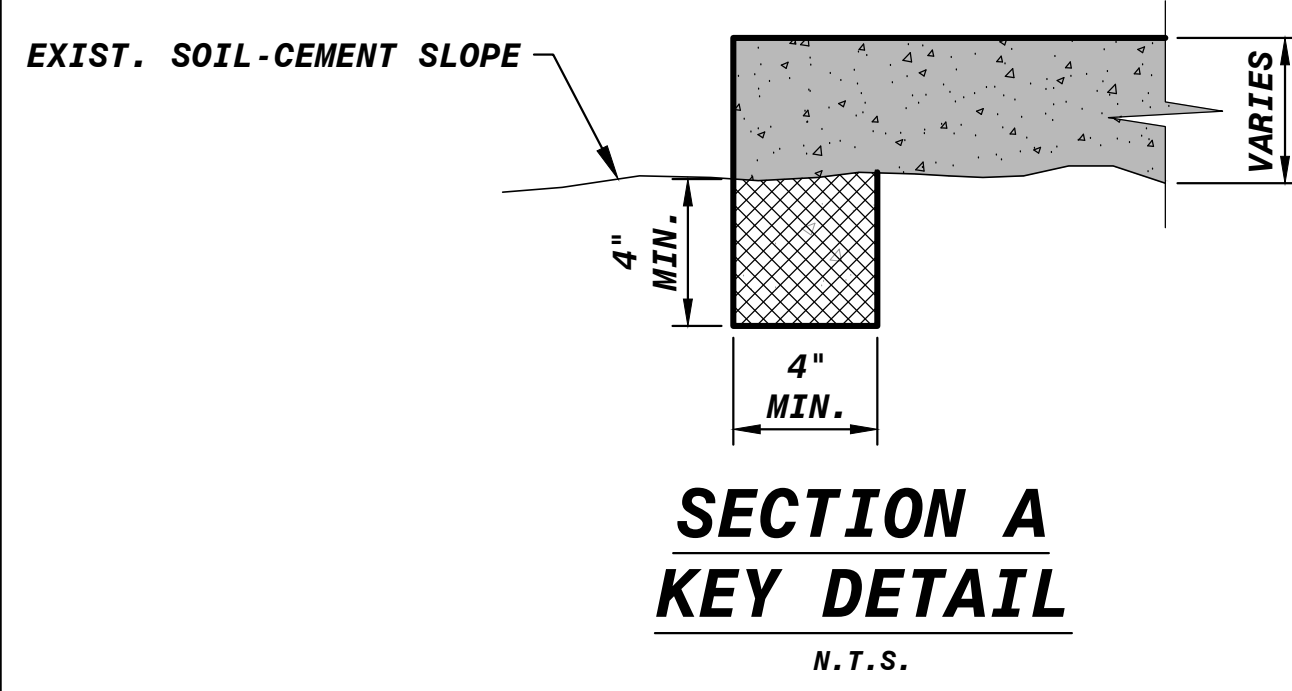
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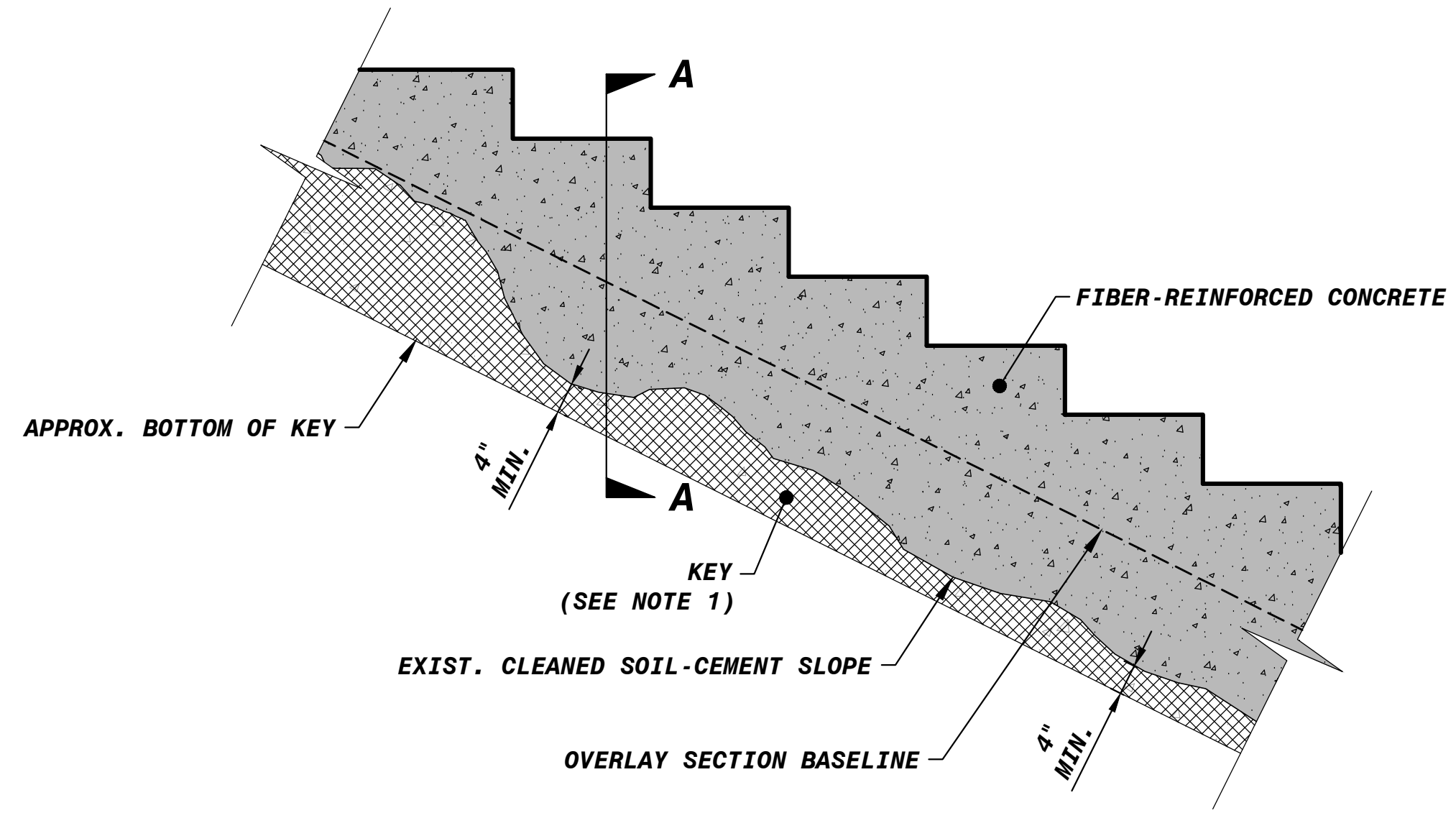
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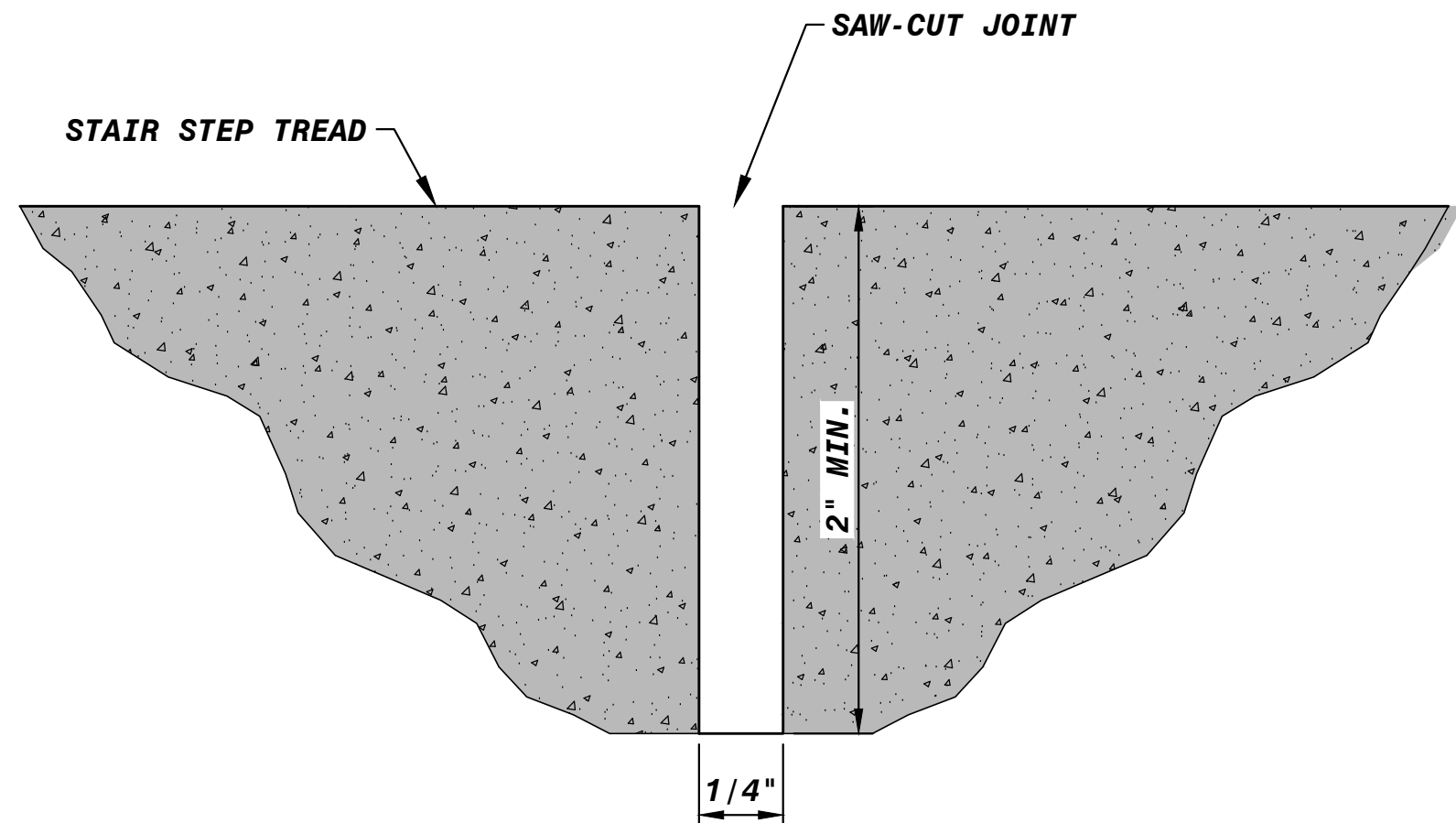
**SECTION A
KEY DETAIL**
N.T.S.



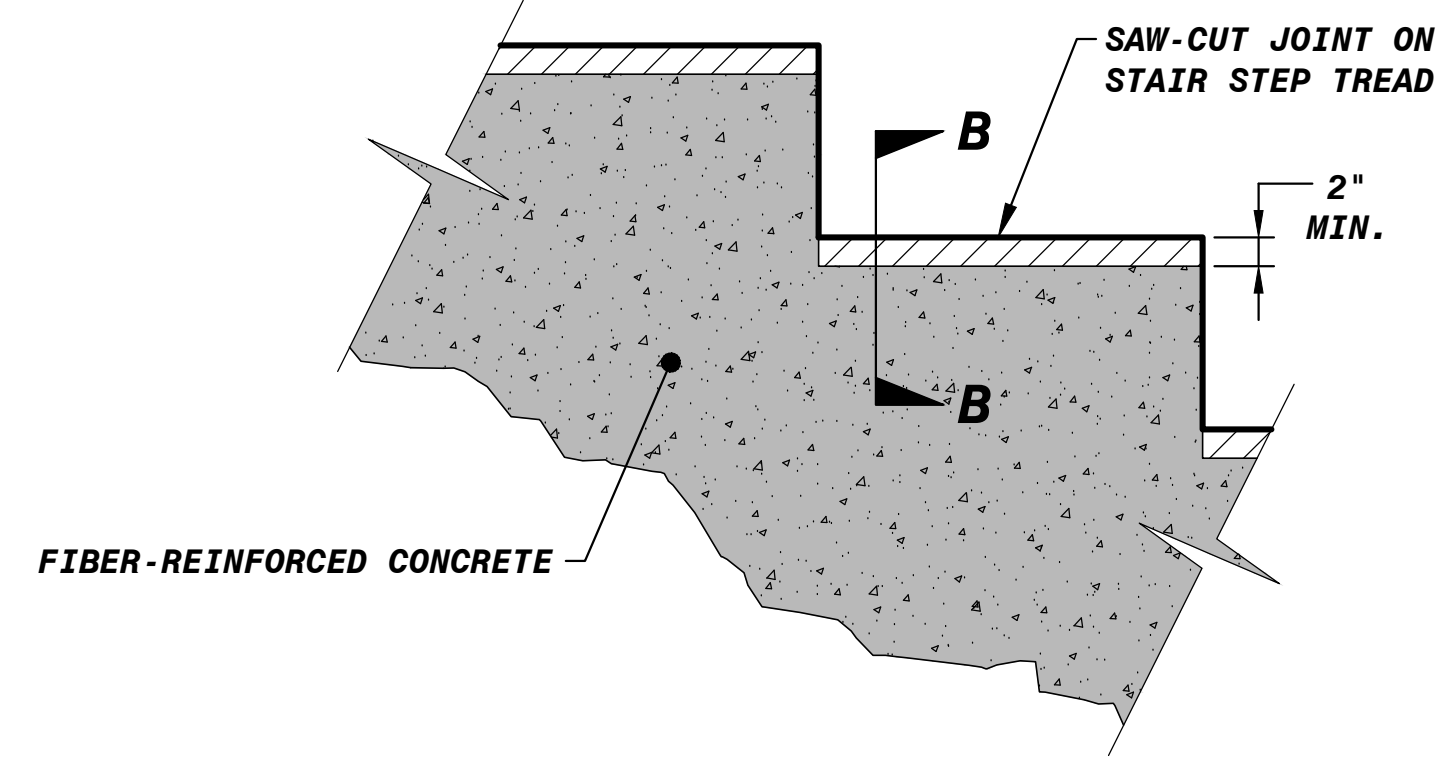
KEY - TYPICAL SECTION
N.T.S.

NOTES:

1. KEY TO BE EXCAVATED AT END STATION OF THE WORK AREA (STA. 285+00 AND STA. 295+00). KEY TRENCH SHALL EXTEND THROUGH EXISTING SOIL-CEMENT STEPS A MINIMUM OF 6 INCHES BELOW THE BOTTOM OF THE STEP RISER.
2. CONSTRUCTION JOINTS SHALL BE PLACED IN THE CONCRETE OVERLAY STEP TREADS BETWEEN ELEV. 57' AND ELEV. 70'.
3. CONSTRUCTION JOINTS SHALL BE SPACED EVERY 20 FEET ALONG THE STEP ALIGNMENT.



**SECTION B
CONSTRUCTION JOINT - DETAIL**
N.T.S.



CONSTRUCTION JOINT - TYPICAL SECTION
N.T.S.

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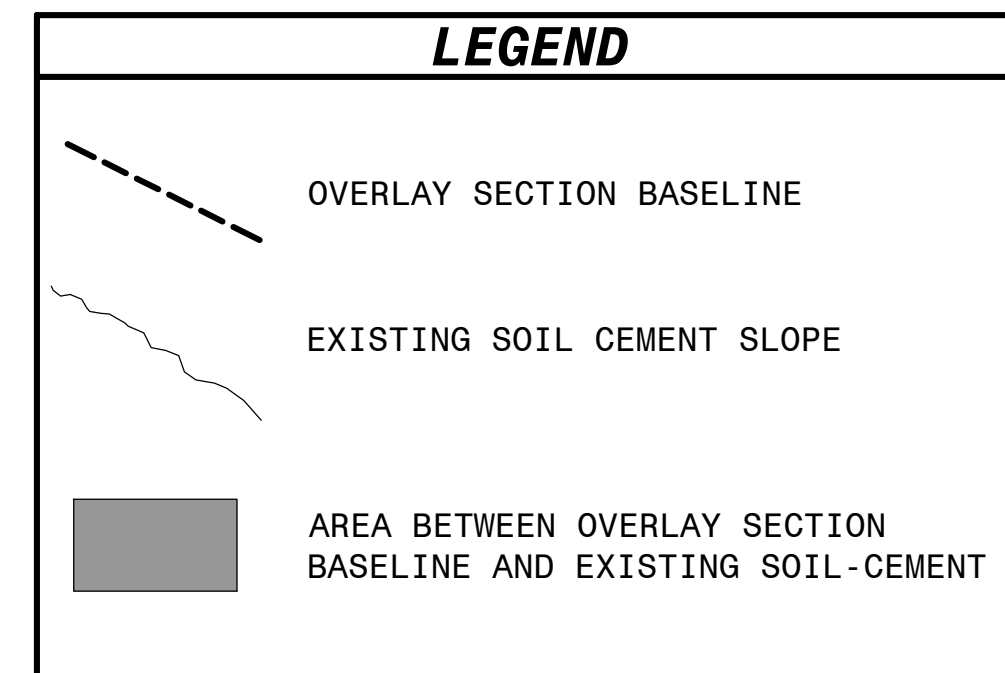
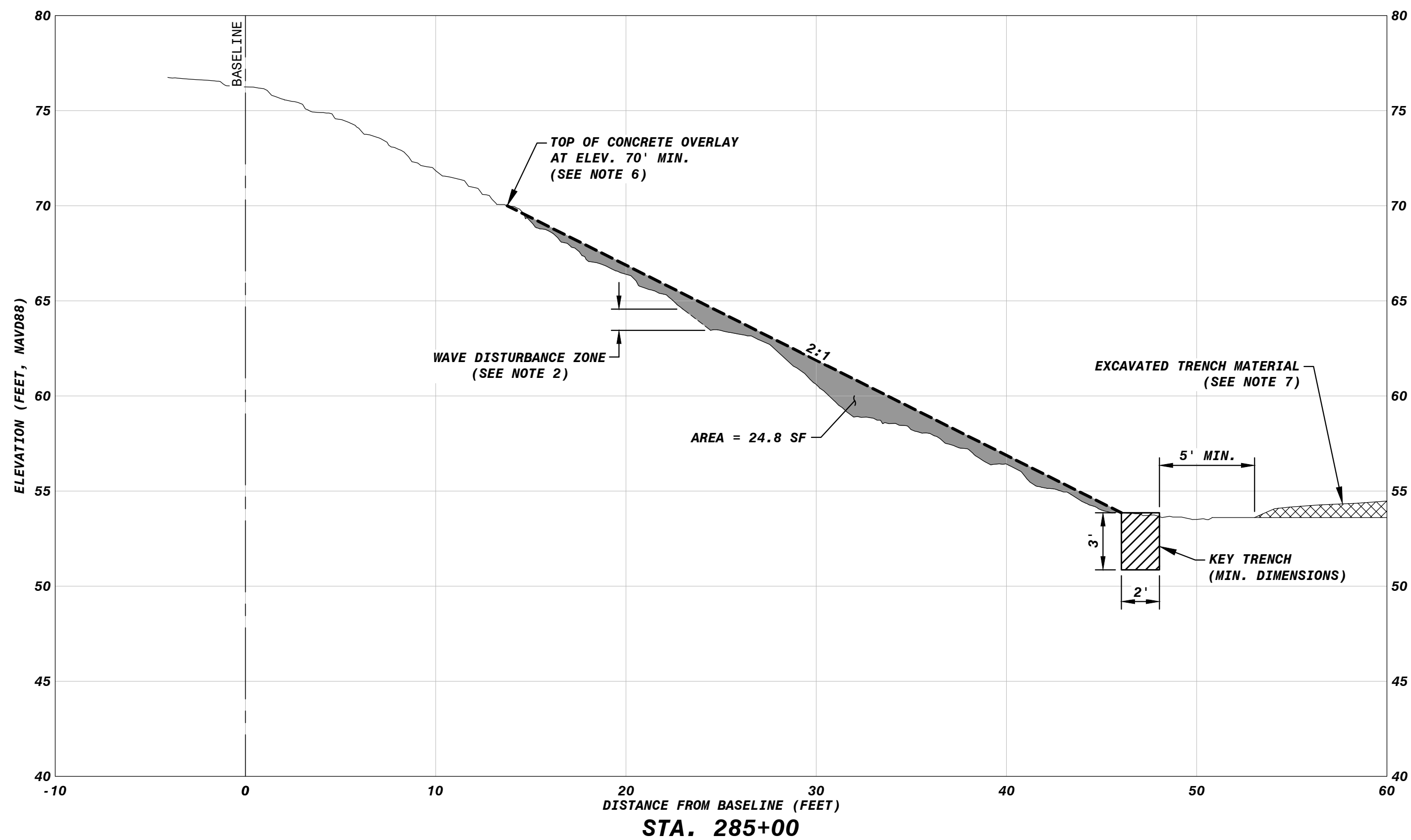
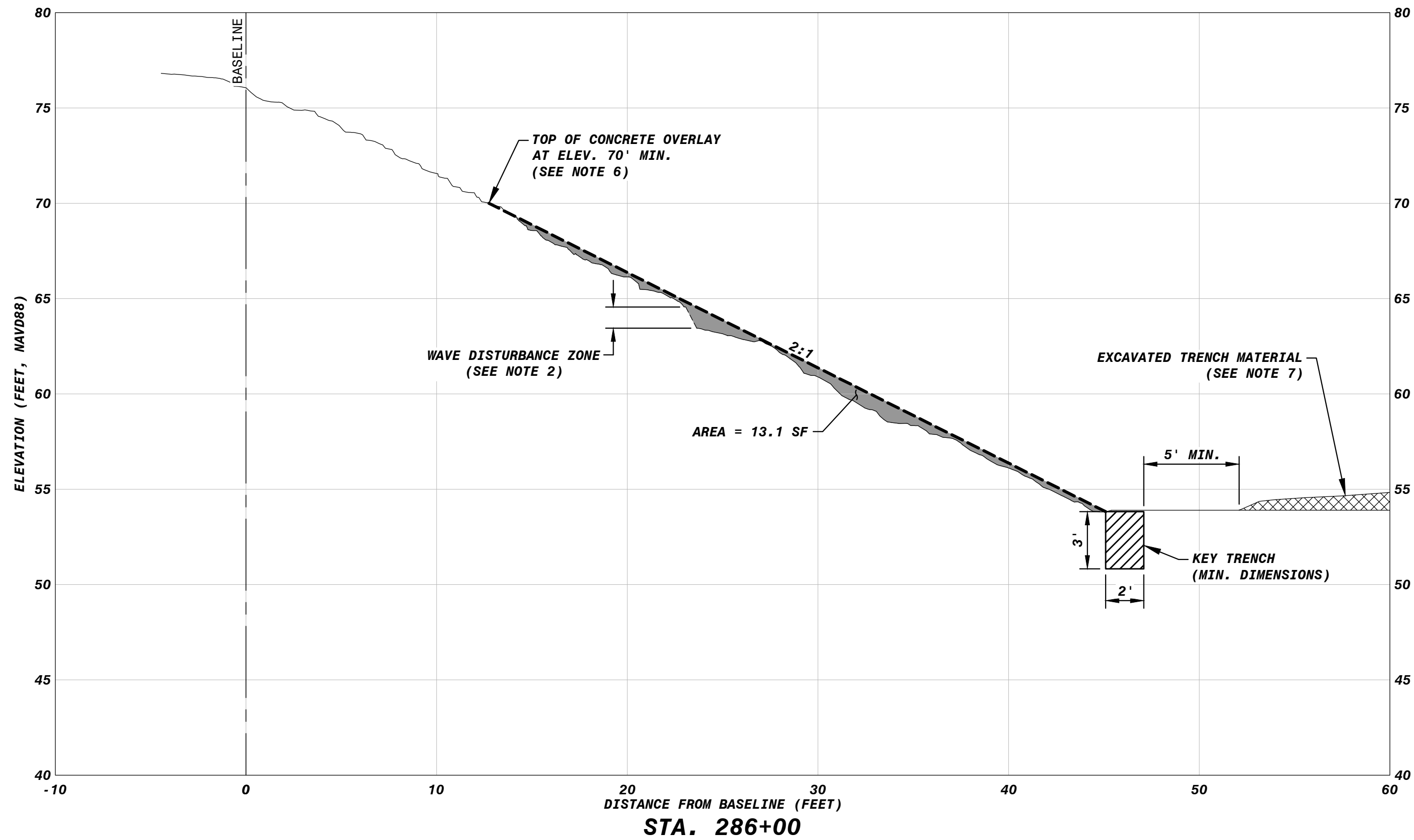
MAMATEE COOLING POND CONCRETE OVERLAY
FLORIDA POWER & LIGHT COMPANY
KEY AND CONSTRUCTION JOINT DETAILS
PARRISH, FLORIDA

DATE: July 8, 2015
 DRAWN BY: MAJ
 CHECKED BY: JAB
 PROJECT NO.: 300906

JEFF BERTSWILL, P.E.
 FLA. REG. NO. 41823

DATE:

NO.	DATE	REVISION



NOTES:

1. SECTIONS BASED ON COMBINED LIDAR/SONAR SURVEY BY GEORGE F. YOUNG, INC. WITH A GENERAL ACCURACY OF 0.5'±.
2. SURVEY DATA COULD NOT BE OBTAINED WITHIN THE ZONE OF WAVE DISTURBANCE (GENERALLY BETWEEN ELEV. 63' AND ELEV. 65' AT THE TIME OF THE SURVEY.)
3. COOLING POND WATER LEVEL WILL VARY BASED ON THE POWER PLANT NEEDS.
4. SECTION BASELINE MAY BE VARIED BY THE CONTRACTOR BASED ON SITE CONDITIONS AND CONSTRUCTION METHODS AS APPROVED BY FLORIDA POWER AND LIGHT COMPANY (FPL).
5. A MINIMUM 1' OVERLAY SECTION THICKNESS SHALL BE MAINTAINED AT ALL LOCATIONS AND STEPS SHALL BE CONTINUOUS WITH SMOOTH TRANSITIONS AT TRANSVERSE JOINTS.
6. TOP OF OVERLAY SHALL BE AT A MINIMUM ELEV. 70'. THE TOP ELEVATION MAY VARY TO MATCH EXISTING STEPS AND TO MAINTAIN A MINIMUM VERTICAL THICKNESS OF 6" ON THE OVERLAY TIE-IN WITH THE TOP EXISTING SOIL-CEMENT STEP.
7. MATERIAL MECHANICALLY EXCAVATED FROM THE KEY TRENCH MAY BE DISPOSED IN THE COOLING POND BOTTOM IN ACCORDANCE WITH CONSTRUCTION SPECIFICATION SECTION C - EXCAVATION OF BOTTOM KEY TRENCH.

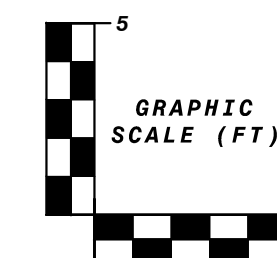


MAMATEE COOLING POND CONCRETE OVERLAY
FLORIDA POWER & LIGHT COMPANY
SOIL-CEMENT CROSS SECTIONS
STA. 285+00 TO STA. 286+00
PARRISH, FLORIDA

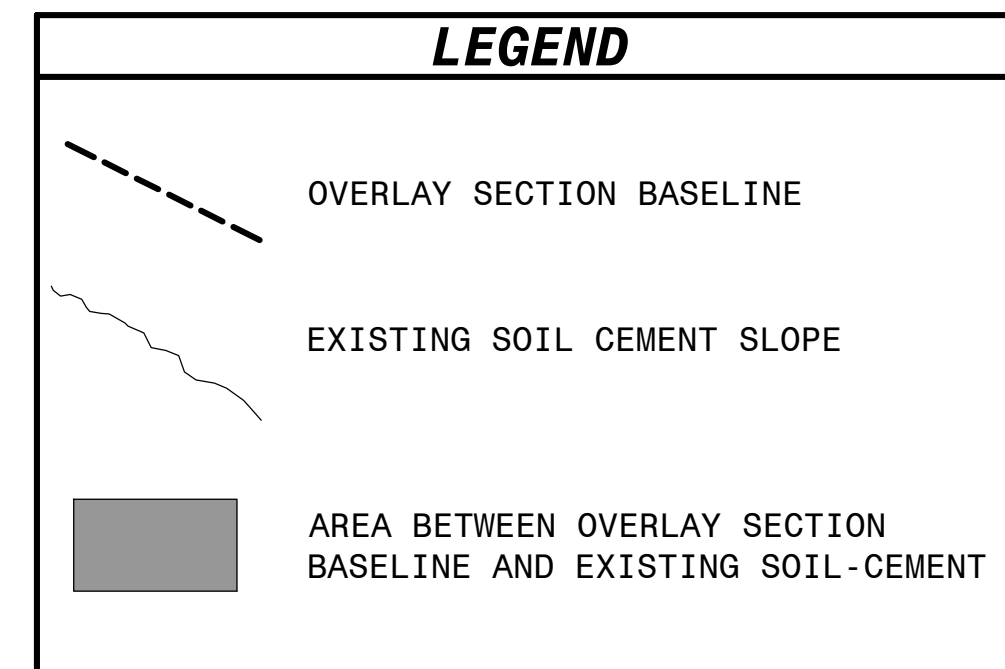
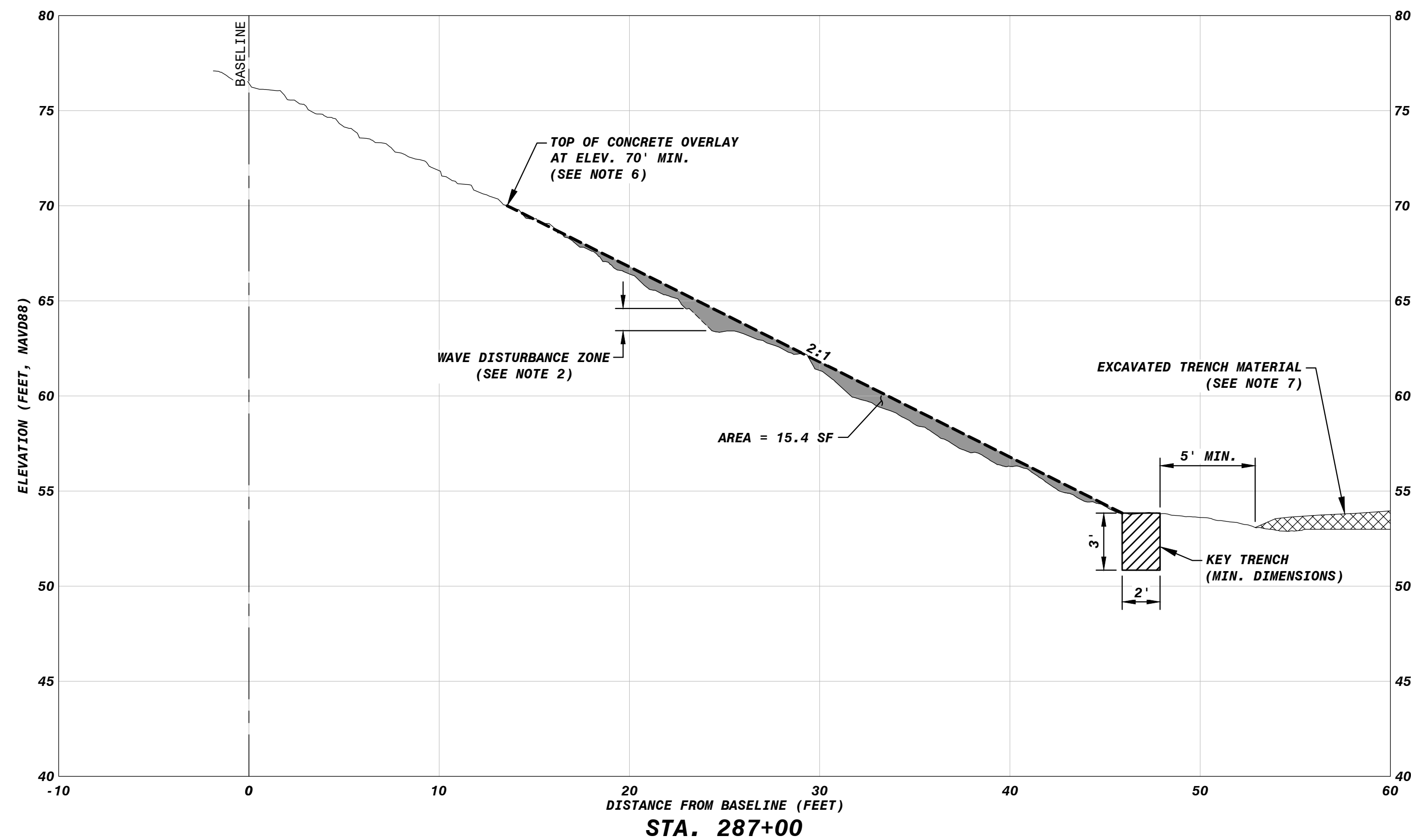
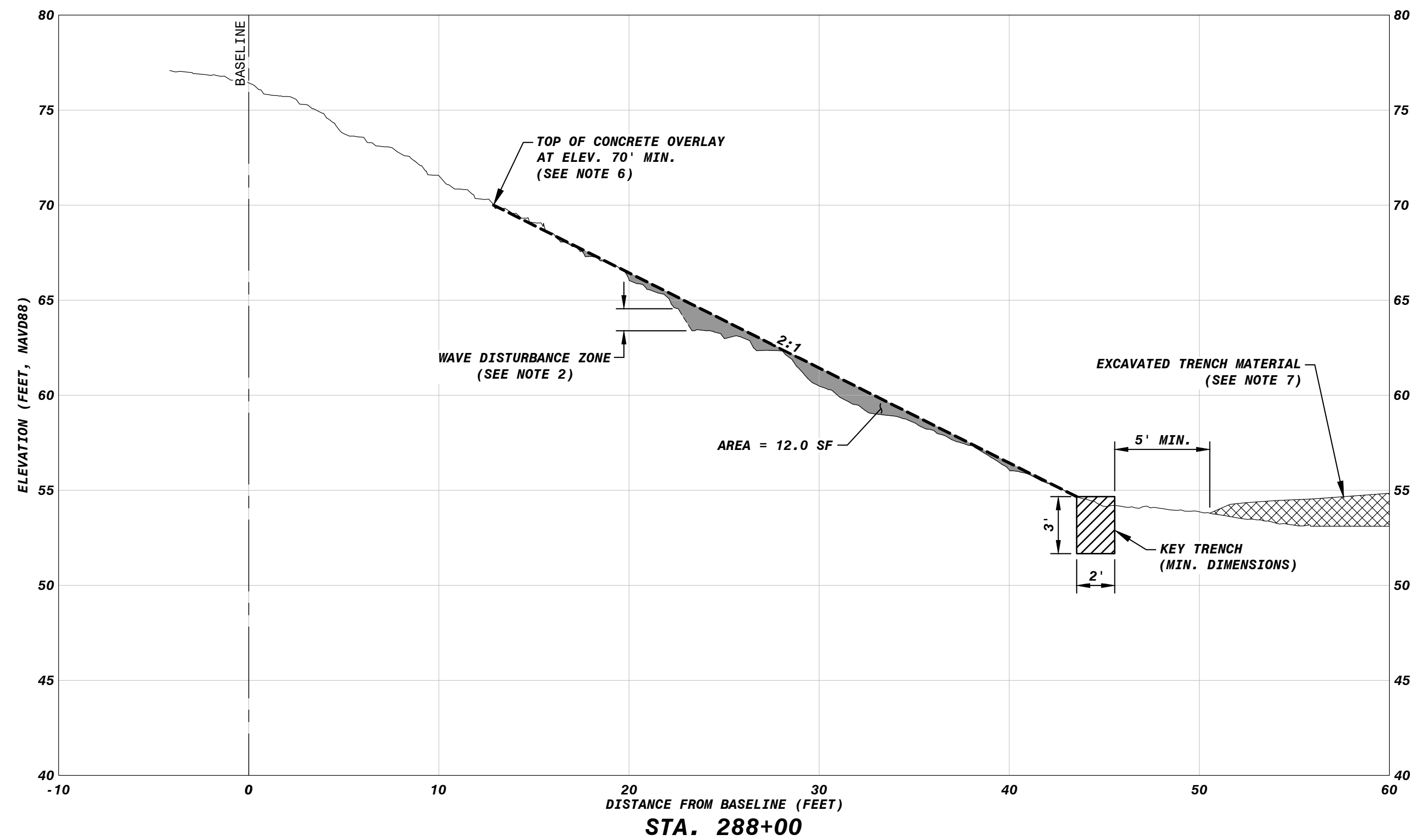
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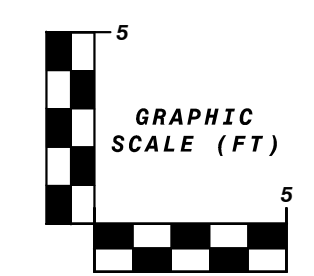
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MAMATEE COOLING POND CONCRETE OVERLAY
FLORIDA POWER & LIGHT COMPANY
SOIL-CEMENT CROSS SECTIONS
STA. 287+00 TO STA. 288+00
PARRISH, FLORIDA

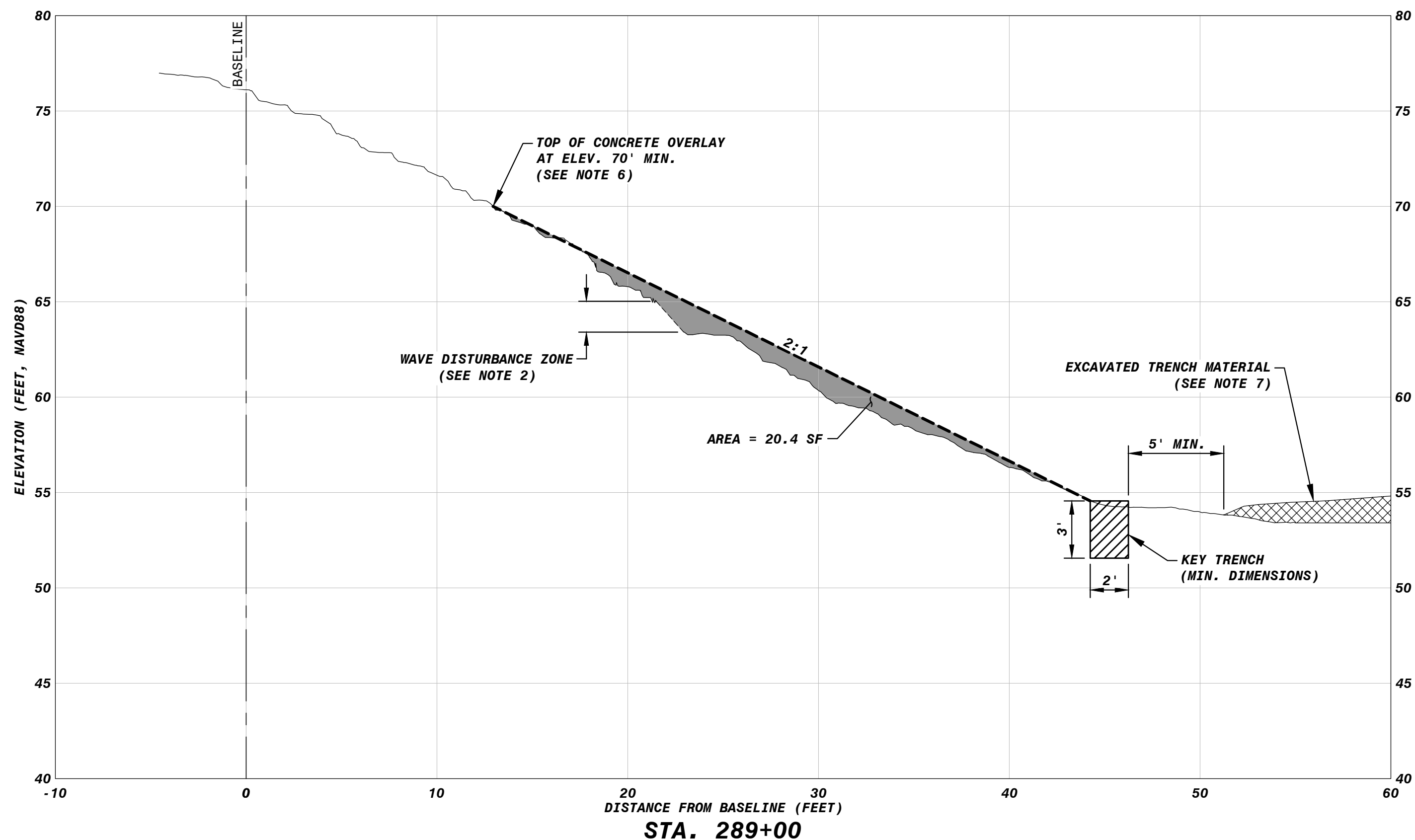
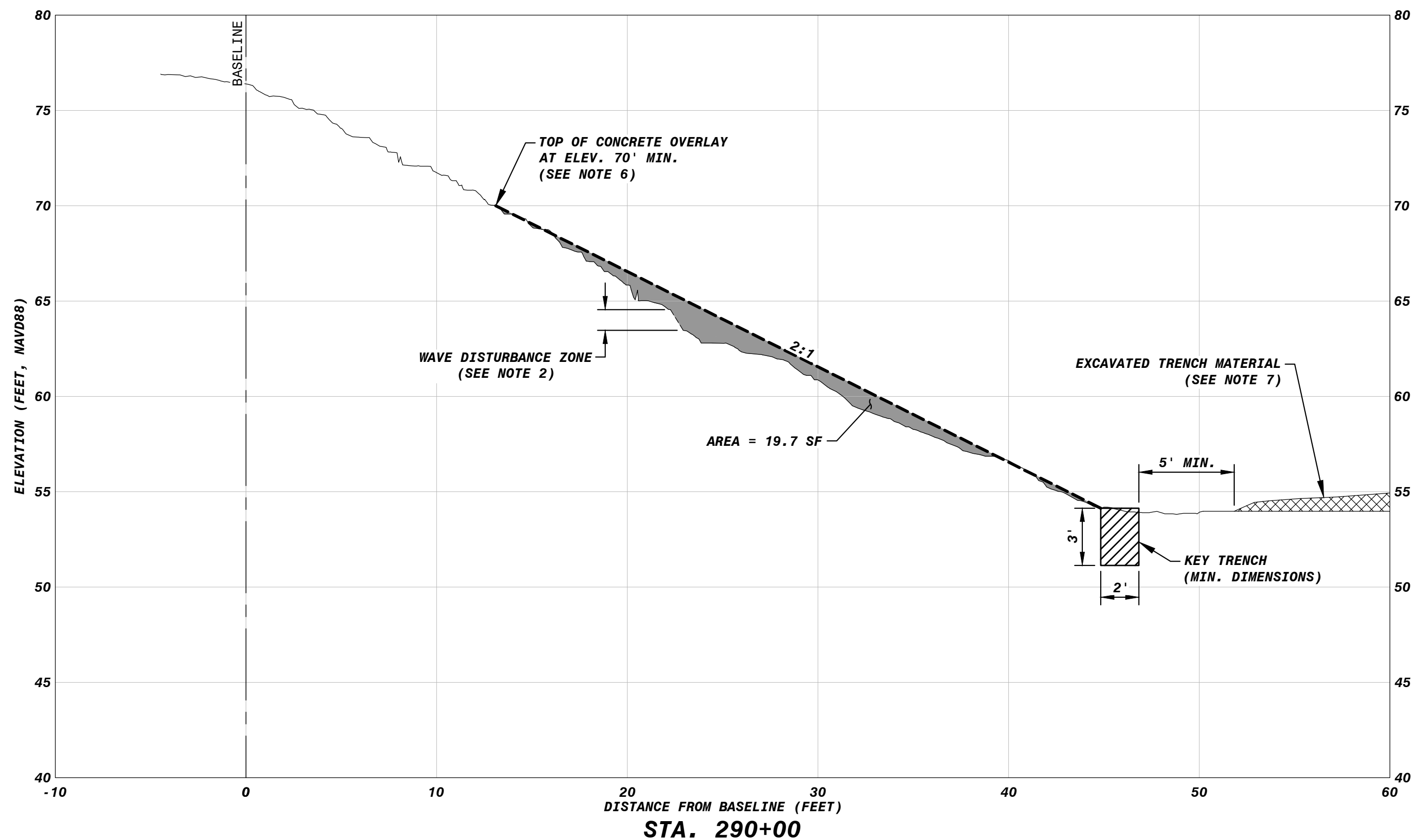
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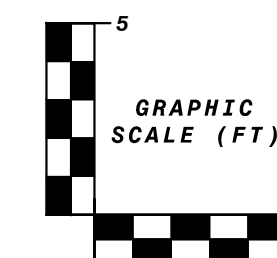
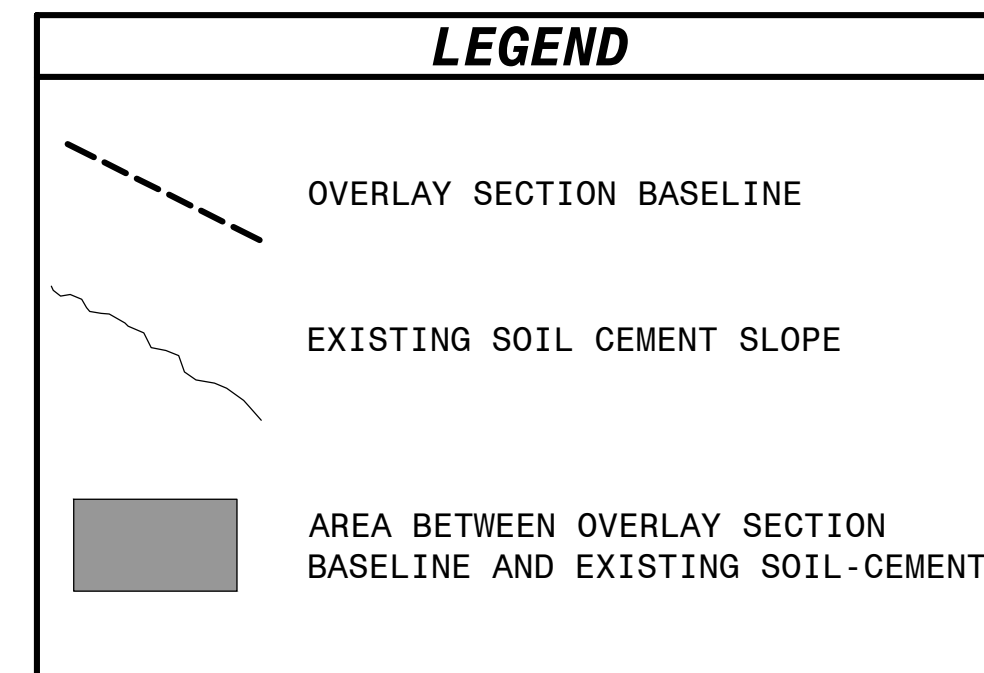


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NOTES:

1. SECTIONS BASED ON COMBINED LIDAR/SONAR SURVEY BY GEORGE F. YOUNG, INC. WITH A GENERAL ACCURACY OF 0.5'±.
2. SURVEY DATA COULD NOT BE OBTAINED WITHIN THE ZONE OF WAVE DISTURBANCE (GENERALLY BETWEEN ELEV. 63' AND ELEV. 65' AT THE TIME OF THE SURVEY.)
3. COOLING POND WATER LEVEL WILL VARY BASED ON THE POWER PLANT NEEDS.
4. SECTION BASELINE MAY BE VARIED BY THE CONTRACTOR BASED ON SITE CONDITIONS AND CONSTRUCTION METHODS AS APPROVED BY FLORIDA POWER AND LIGHT COMPANY (FPL).
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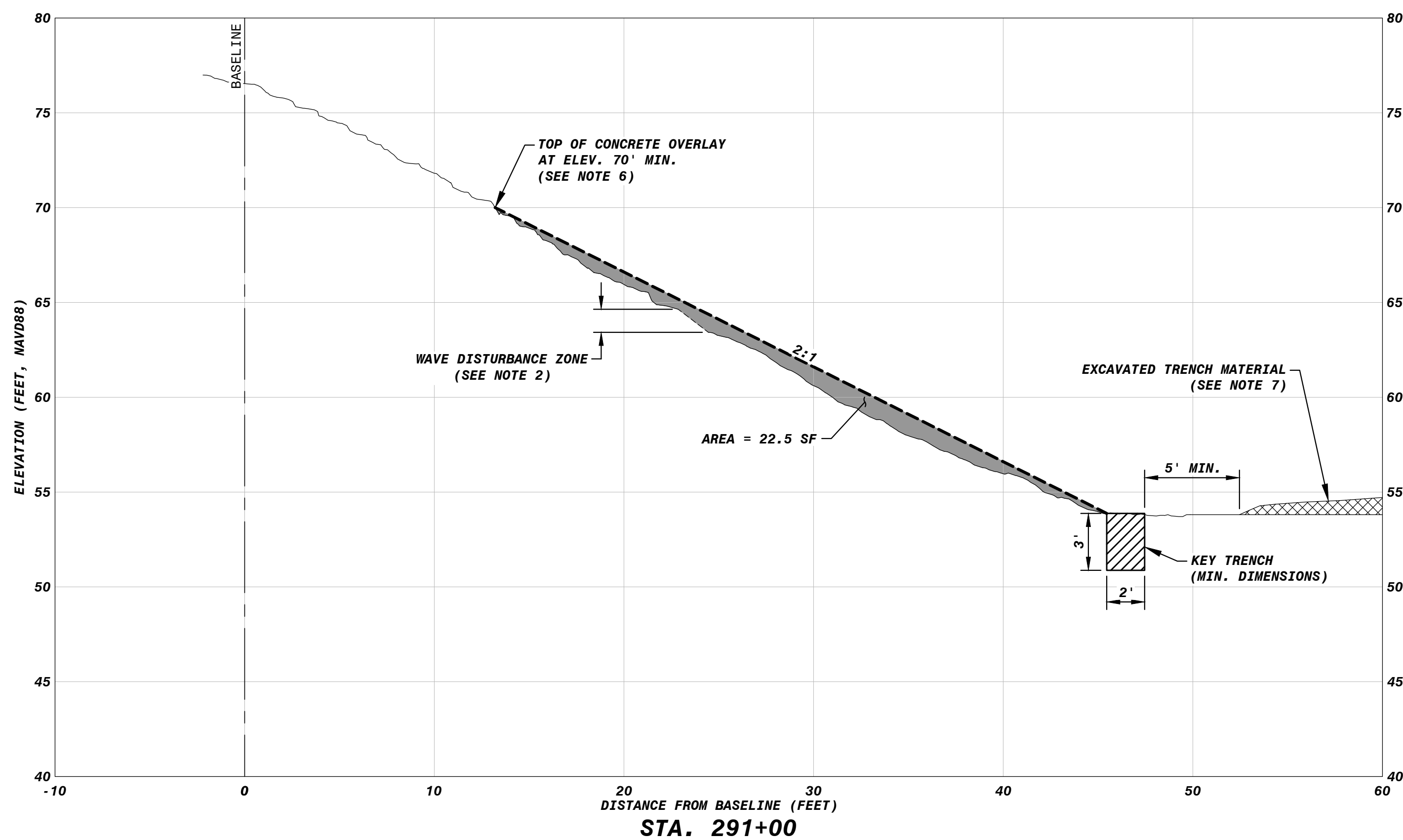
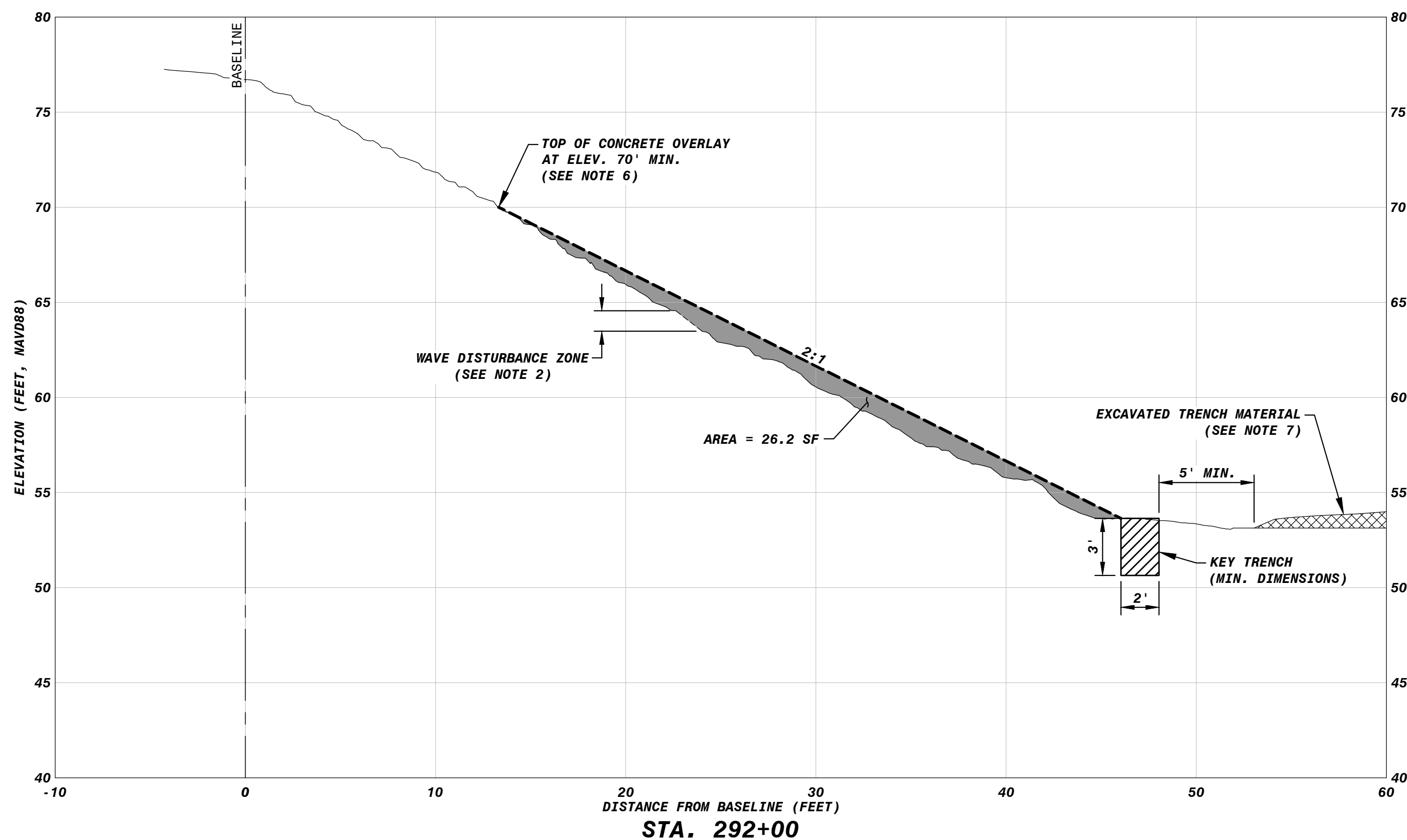
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MAMATEE COOLING POND CONCRETE OVERLAY
FLORIDA POWER & LIGHT COMPANY
 SOIL-CEMENT CROSS SECTIONS
 STA. 289+00 TO STA. 290+00
 PARRISH, FLORIDA

DATE: July 8, 2015
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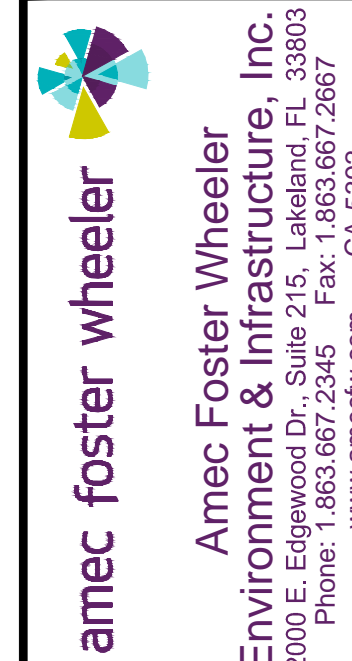
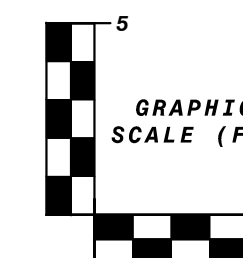
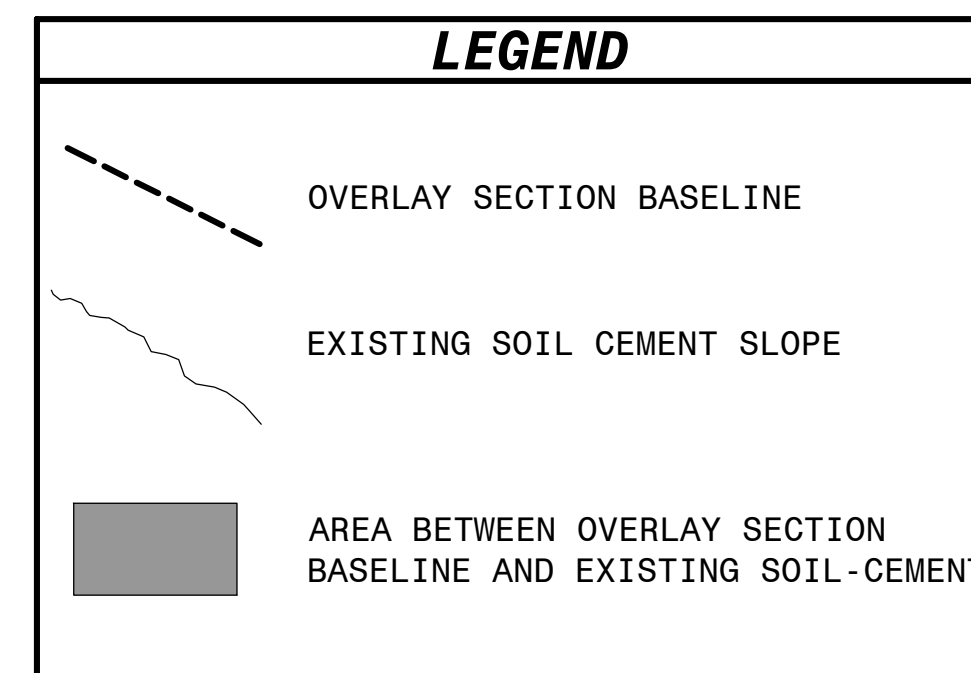
JEFF BERTSWILL, P.E.
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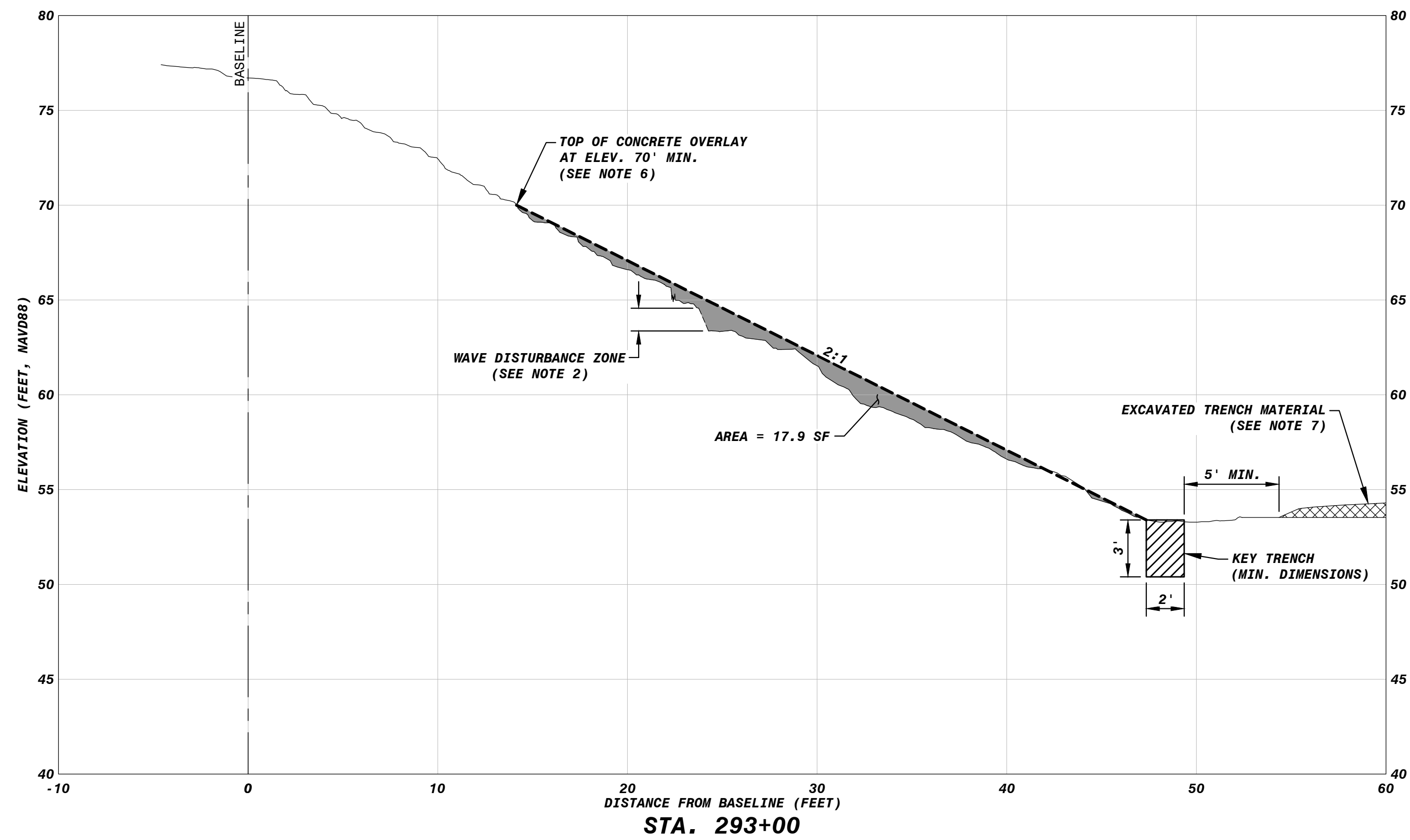
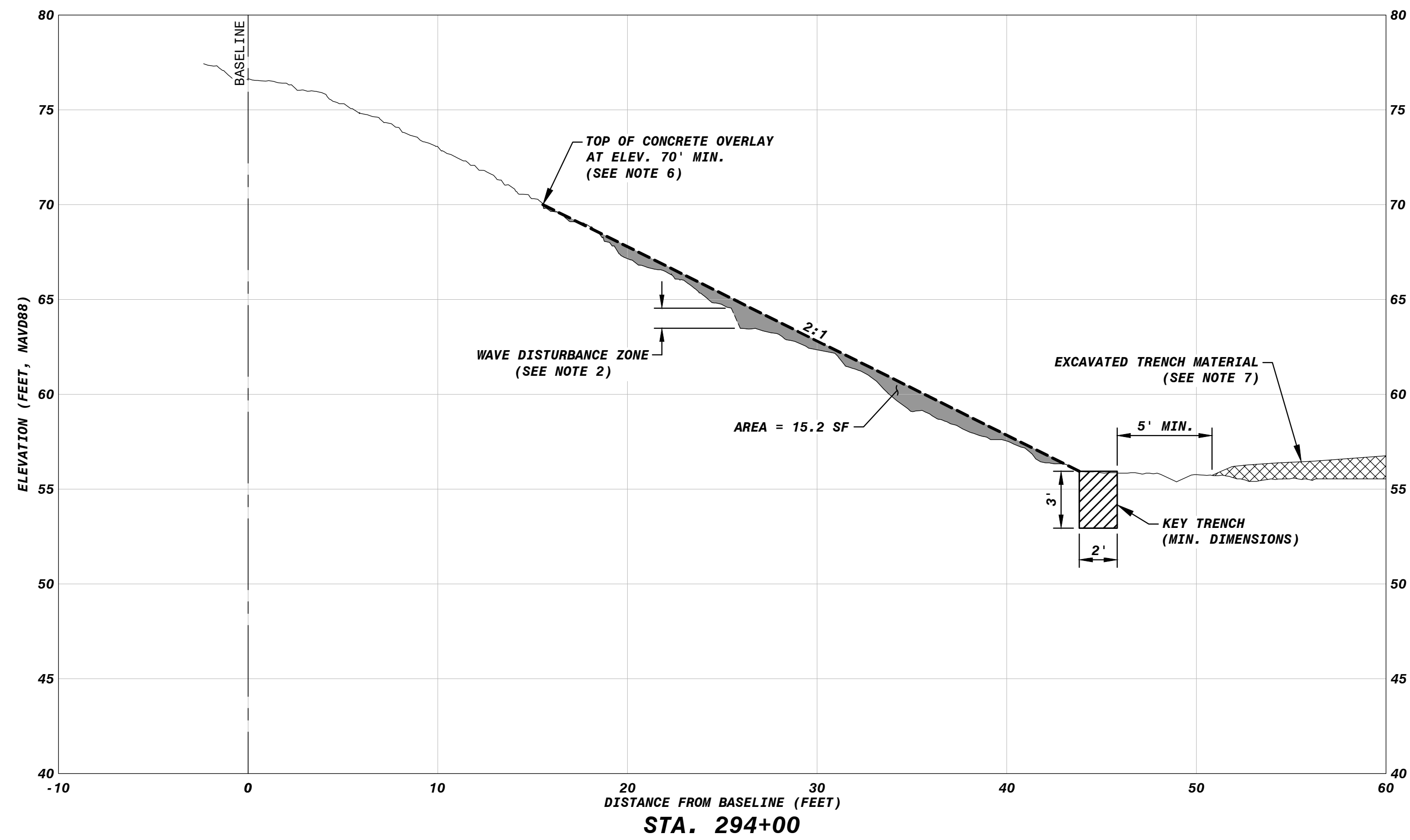
MAMATEE COOLING POND CONCRETE OVERLAY
FLORIDA POWER & LIGHT COMPANY
SOIL-CEMENT CROSS SECTIONS
STA. 291+00 TO STA. 292+00
PARRISH, FLORIDA

DATE: July 8, 2015
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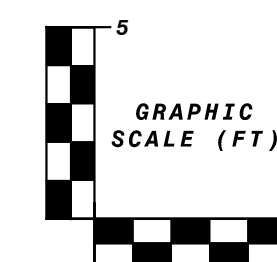
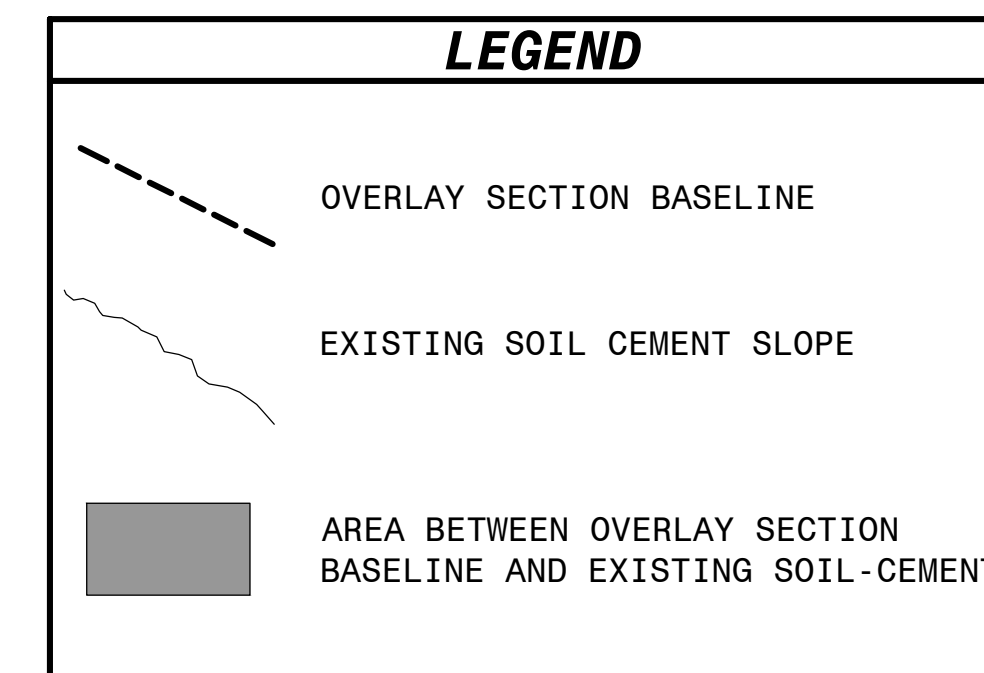
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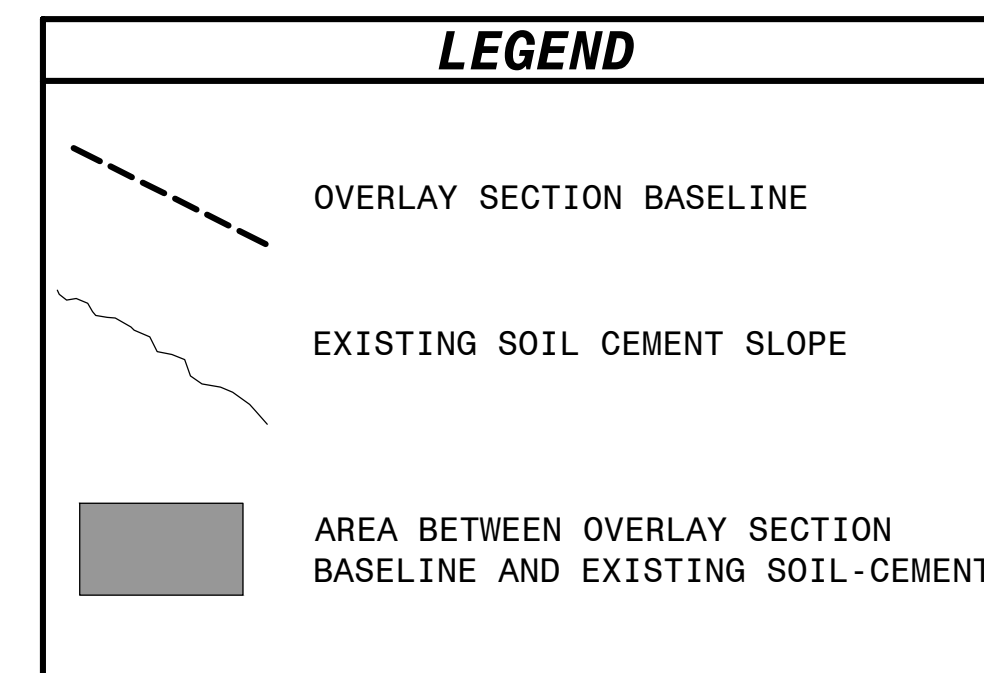
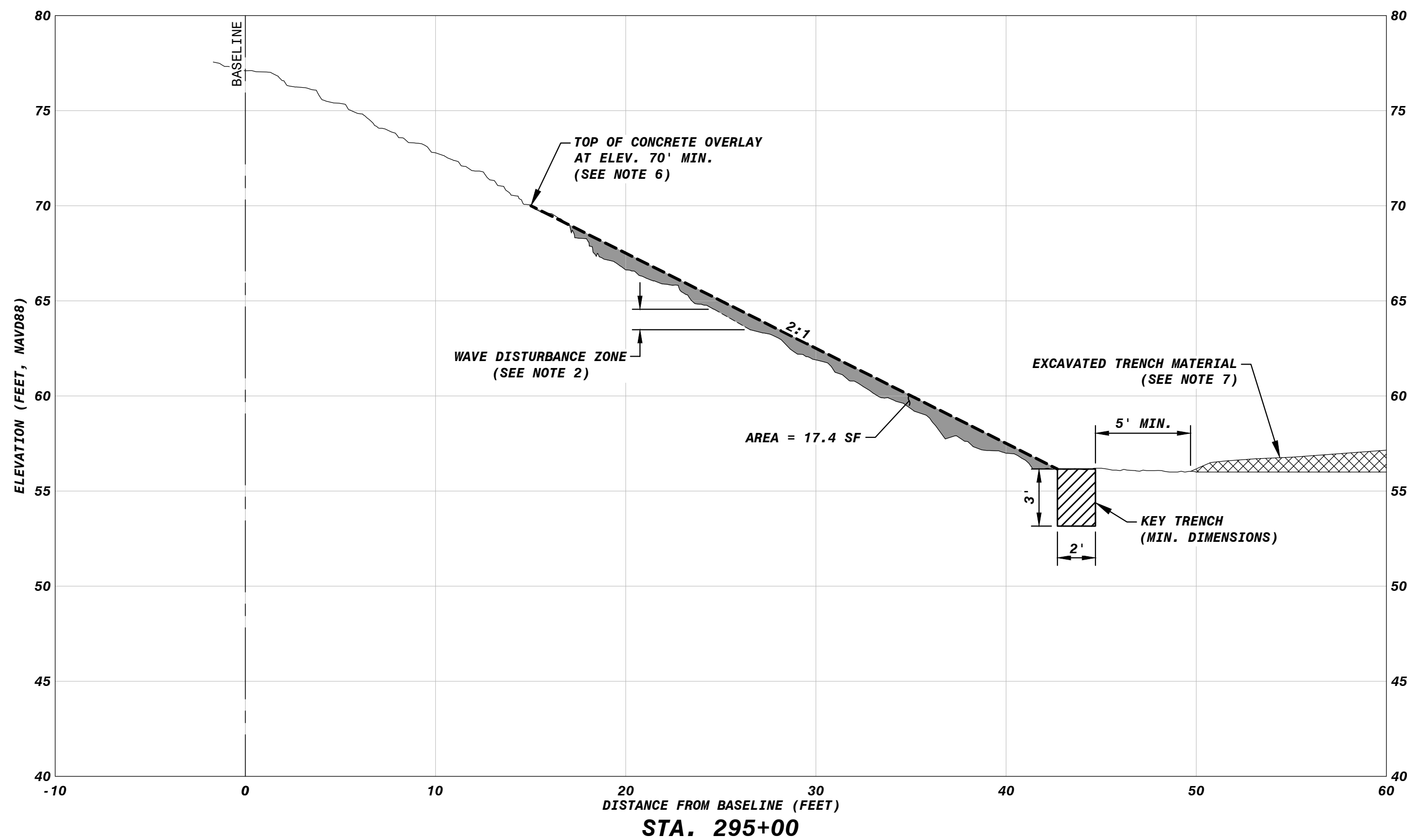
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MAMATEE COOLING POND CONCRETE OVERLAY
FLORIDA POWER & LIGHT COMPANY
SOIL-CEMENT CROSS SECTIONS
STA. 293+00 TO STA. 294+00
PARRISH, FLORIDA

DATE: July 8, 2015
 DRAWN BY: MAJ
 CHECKED BY: JAB
 PROJECT NO.: 300906

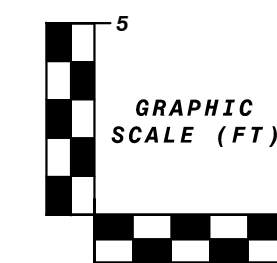
JEFF BERTSWILL, P.E.
 FLA. REG. NO. 41823

DATE:



NOTES:

1. SECTIONS BASED ON COMBINED LIDAR/SONAR SURVEY BY GEORGE F. YOUNG, INC. WITH A GENERAL ACCURACY OF 0.5'±.
2. SURVEY DATA COULD NOT BE OBTAINED WITHIN THE ZONE OF WAVE DISTURBANCE (GENERALLY BETWEEN ELEV. 63' AND ELEV. 65' AT THE TIME OF THE SURVEY.)
3. COOLING POND WATER LEVEL WILL VARY BASED ON THE POWER PLANT NEEDS.
4. SECTION BASELINE MAY BE VARIED BY THE CONTRACTOR BASED ON SITE CONDITIONS AND CONSTRUCTION METHODS AS APPROVED BY FLORIDA POWER AND LIGHT COMPANY (FPL).
5. A MINIMUM 1' OVERLAY SECTION THICKNESS SHALL BE MAINTAINED AT ALL LOCATIONS AND STEPS SHALL BE CONTINUOUS WITH SMOOTH TRANSITIONS AT TRANSVERSE JOINTS.
6. TOP OF OVERLAY SHALL BE AT A MINIMUM ELEV. 70'. THE TOP ELEVATION MAY VARY TO MATCH EXISTING STEPS AND TO MAINTAIN A MINIMUM VERTIVAL THICKNESS OF 6" ON THE OVERLAY TIE-IN WITH THE TOP EXISTING SOIL-CEMENT STEP.
7. MATERIAL MECHANICALLY EXCAVATED FROM THE KEY TRENCH MAY BE DISPOSED IN THE COOLING POND BOTTOM IN ACCORDANCE WITH CONSTRUCTION SPECIFICATION SECTION C - EXCAVATION OF BOTTOM KEY TRENCH.



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 Amec Foster Wheeler
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**MANATEE COOLING POND CONCRETE OVERLAY
 FLORIDA POWER & LIGHT COMPANY
 SOIL-CEMENT CROSS SECTIONS
 STA. 295+00
 PARRISH, FLORIDA**

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