Draftel +

“OSP Underground fiber design

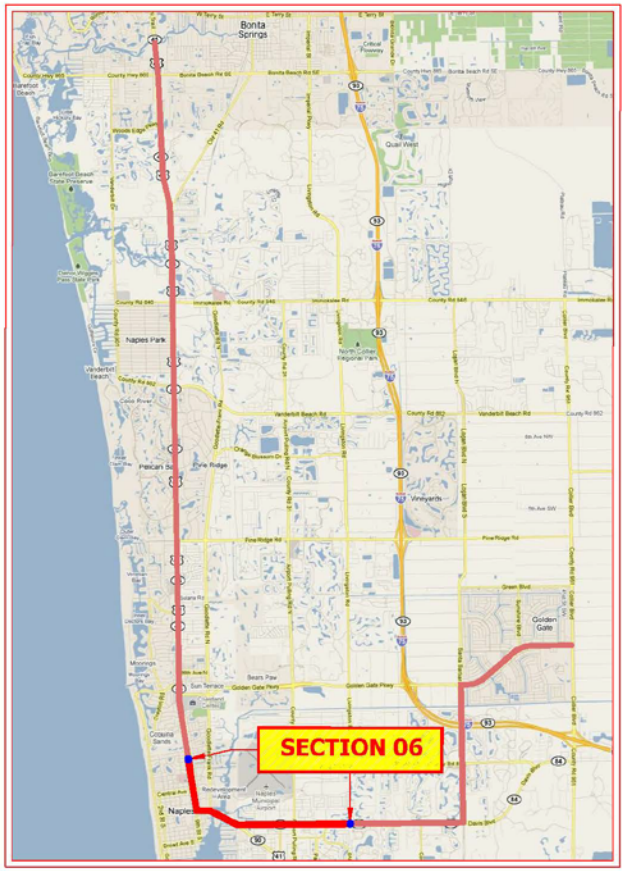
Underground Fiber & Bridge Attachment

Design Examples | April 2020

"WEST COAST BUILDOUT"

SEGMENT 08 SECTION 06

W.B.S.# B-2310



COVER
OVERALL MAP
001 OF 022 TO 022 OF 022 -- PLANS
01A OF 022 TO 22A OF 022 -- PROFILES
001 OF 017 TO 017 OF 017 -- BRIGDE ATTACHMENT DETAILS
001 OF 003 TO 003 OF 003 -- CROSSING DETAILS

LOCATION MAP

N.T.S.

DIRECTION OF ENGINEERING

INFORMATION ON THIS DOCUMENT IS PROPRIETARY AND SHALL NOT BE USED, COPIED, REPRODUCED OR DISCLOSED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT OF XXX XXXXXXX.

UNIT	QTY

REVISIONS/APPROVALS

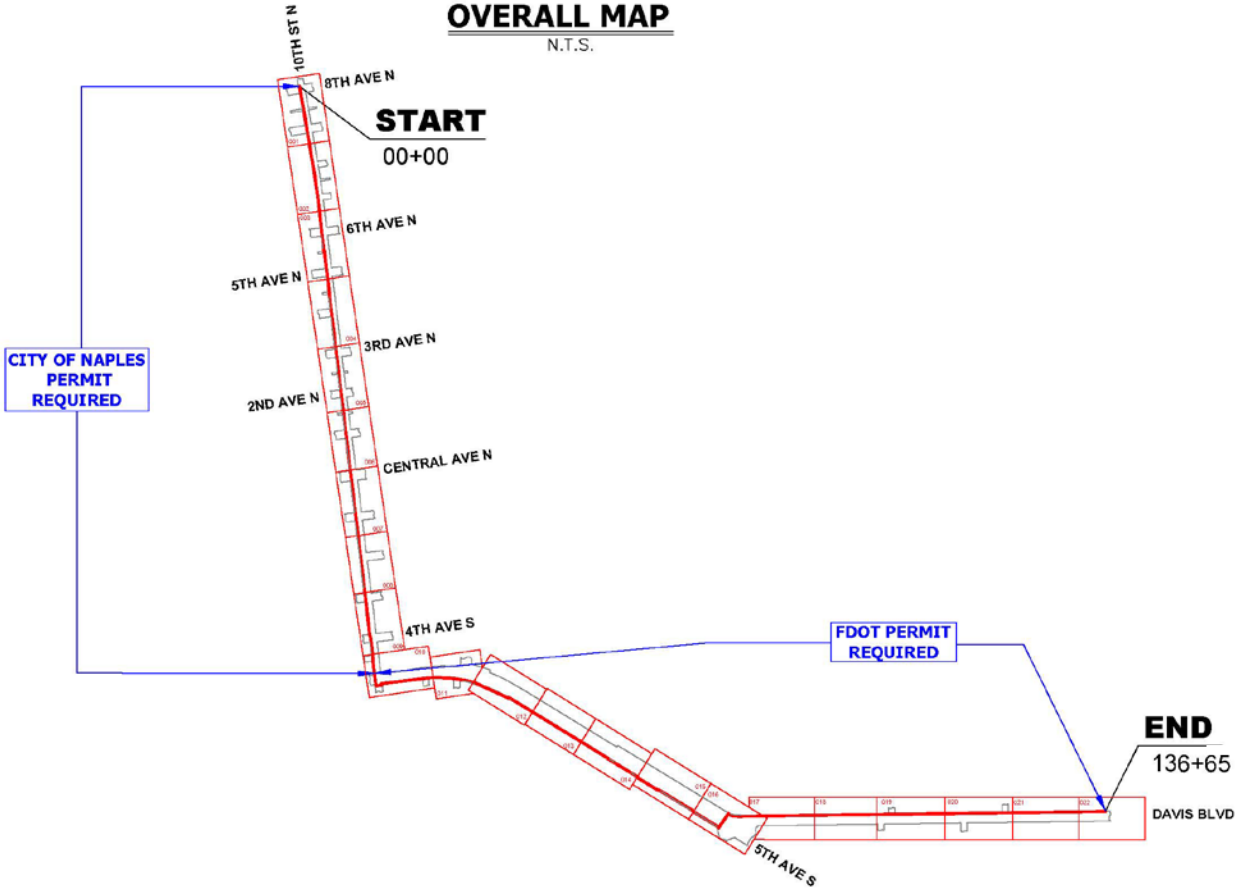
DATE	DESCRIPTION	INITIAL

811 Know what's below. Call before you dig.

COUNTY:	COLLIER
CITY:	NAPLES
TWNSHP:	50
RANGE:	25
SECTION:	2,5
SITE RMD:	---
SITE ID:	SEGMENT
PROJECT NAME:	SEGMENT 08 - SECTION 06
PROJECT ADDRESS:	WEST COAST BUILDOUT
DSP ENG:	---
DSP PH #:	---
APPV BY:	
PROJECT CODE:	WBS# B-2310
DRAWN BY:	
APPROVED ORIGINAL ISSUE	
FILE NAME:	SEGMENT08 - SECTION06 - DESIGN
SCALE:	NTS
PAGE:	COVER 001
OF:	001

OVERALL MAP

N.T.S.



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UNIT	QTY

REVISIONS/APPROVALS

DATE	DESCRIPTION	INITIAL

811 Know what's below. Call before you dig.

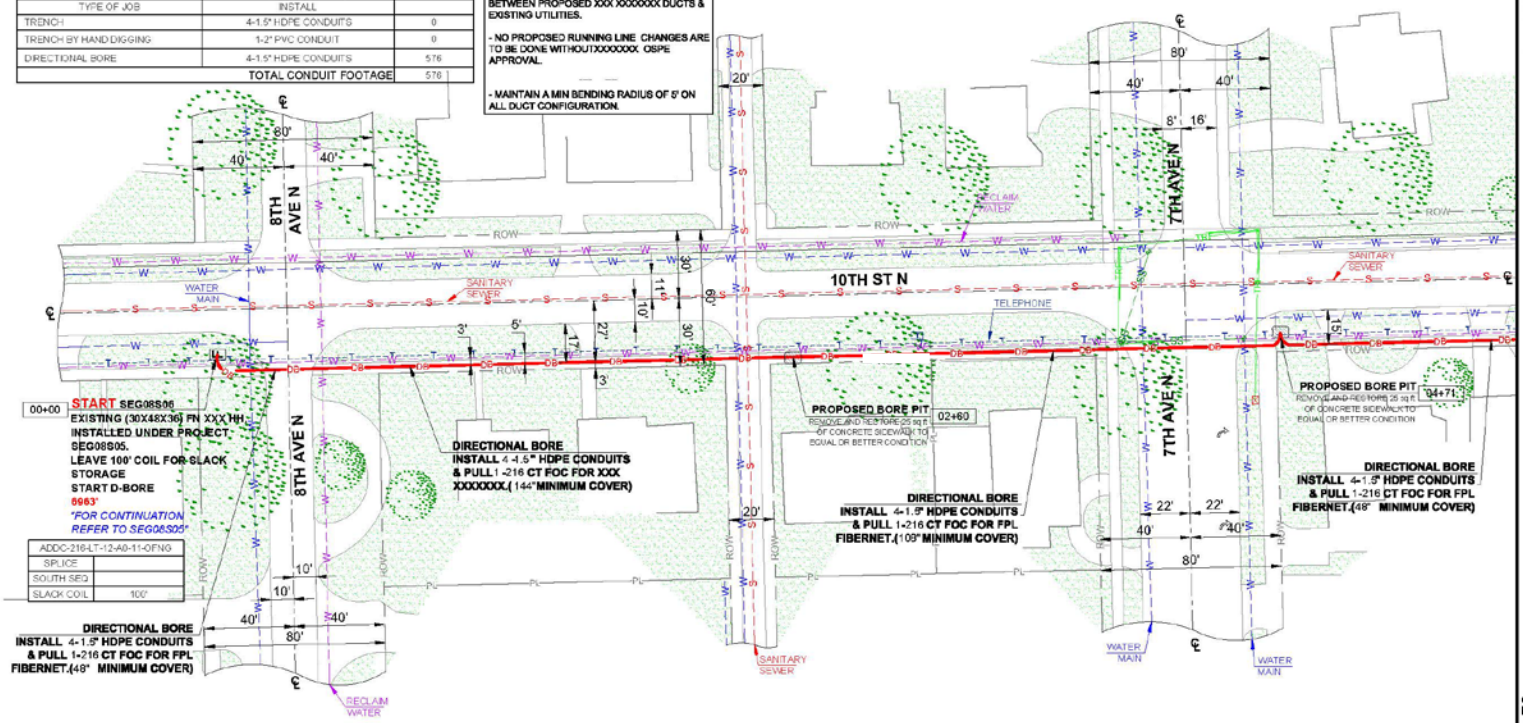
COUNTY:	COLLIER
CITY:	NAPLES
TWNSHIP:	50
RANGE:	25
SECTION:	2,5
SITE RING: ----	SITE ID: SEGMENT
PROJECT NAME:	SEGMENT 08 - SECTION 06
PROJECT ADDRESS:	WEST COAST BUILDOUT
CSP-ENG: ----	CSP PH #: ---- APPV BY:
PROJECT CODE:	WBS# B-2310 DRAWN BY:
APPROVED ORIGINAL ISSUE:	
FILE NAME:	SEGMENT08 - SECTION06 - DESIGN
SCALE: NTS	SHEET: OVERALL MAP 001 OF: 001

F.O.C FOOTAGE (THIS SHEET)			216CT
UNDERGROUND			576
SLACK (100')	# OF SLACK	1	100
TOTAL 216CT F.O.C FOOTAGE			676

CONDUIT FOOTAGE (THIS SHEET)		
TYPE OF JOB	INSTALL	
TRENCH	4-1.5" HDPE CONDUITS	0
TRENCH BY HAND DIGGING	1-2" PVC CONDUIT	0
DIRECTIONAL BORE	4-1.5" HDPE CONDUITS	576
TOTAL CONDUIT FOOTAGE		576

UG CONSTRUCTION NOTES:

- RESTORE ALL SURFACES TO EQUAL OR BETTER CONDITION.
- VERIFY ALL MEASUREMENTS AND DISTANCES.
- MAINTAIN MINIMUM 12" SEPARATION BETWEEN PROPOSED XXX XXXXXXX DUCTS & EXISTING UTILITIES.
- NO PROPOSED RUNNING LINE CHANGES ARE TO BE DONE WITHOUTXXXXXXX OSPE APPROVAL.
- MAINTAIN A MIN BENDING RADIUS OF 5' ON ALL DUCT CONFIGURATION.



216CT FOC INSTALLED UNDER SEGMENT 09 - SECTION 05 — 100' — 100' — N. WEST — ADDC-216-LT-12-A0-11-OFNG — S. EAST

"FOR CONTINUATION REFER TO SEGMENT 08 - SECTION 05"

0+30

EXISTING FN XXX HH, INSTALLED UNDER PROJECT SEG08S05.

Place ADDC-216
P.L.: 15415'
C.L.: 15877'
Total measurement
Prints 001 through 022

SEE SHEET: 002 OF 022

MATCH LINE STATION: 05+76

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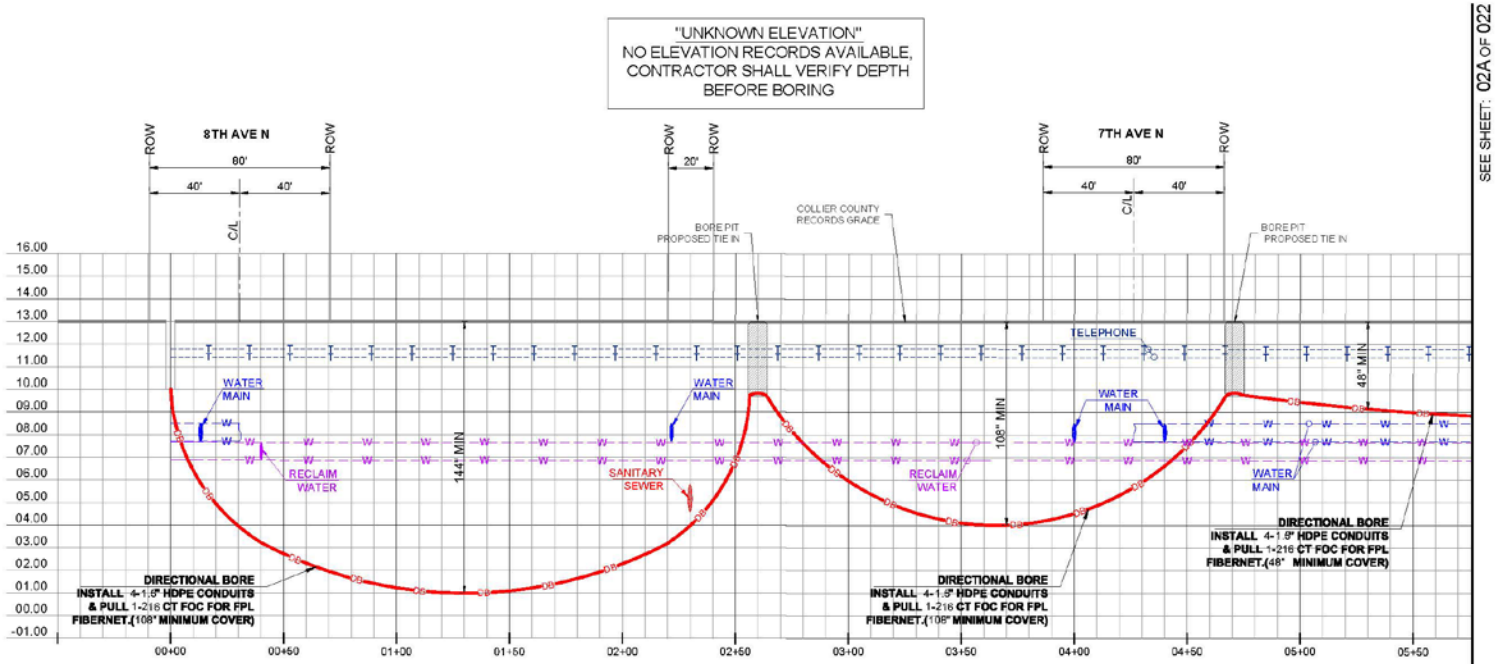
UNIT	QTY

REVISIONS/APPROVALS

DATE	DESCRIPTION	INITIAL

811 Know what's below. Call before you dig.

COUNTY:	COLLIER
CITY:	NAPLES
TWNSHP:	50
RANGE:	25
SECTION:	2,5
SITE RING:	----
SITE ID:	SEGMENT
PROJECT NAME	SEGMENT 08 - SECTION 06
PROJECT ADDRESS	WEST COAST BUILDOUT
CSP ENG:	---
CSP PH #:	---
APPV BY:	
PROJECT CODE:	WBS# B-2310
DRAWN BY:	
APPROVED ORIGINAL ISSUE:	
FILE NAME:	SEGMENT08 - SECTION06 - DESIGN
SCALE:	1"=50'
PAGE:	001
OF:	022



EXISTING FPL XXX HH, INSTALLED UNDER PROJECT SE098300. START D-BORE 0000

00+00

PROPOSED BORE PIT

02+60

PROPOSED BORE PIT

04+71

PROFILE - 10TH ST N

HORIZONTAL SCALE 1"=50'
VERTICAL SCALE 1"=5'

SEE SHEET: 02A OF 022

MATCH LINE STATION: 05+76

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UNIT	QTY

REVISIONS/APPROVALS

DATE	DESCRIPTION	INITIAL

811 Know what's below. Call before you dig.

COUNTY: COLLIER
CITY: NAPLES
TWNSHIP: 50
RANGE: 25
SECTION: 2,5
SITE RING: ----
SITE ID: SEGMENT
PROJECT NAME: SEGMENT 08 - SECTION 06
PROJECT ADDRESS: WEST COAST BUILDOUT
CSP ENG: ---
CSP FN #: ---
APPV BY:
PROJECT CODE: WBS# B-2310
DRAWN BY:
APPROVED ORIGINAL ISSUE:
FILE NAME: SEGMENT08 - SECTION06 - DESIGN
SCALE: 1"=50'
PAGE: 01A
OF: 022

SEE SHEET: 011 OF 022

F.O.C FOOTAGE (THIS SHEET)			
			216CT
UNDERGROUND			305
SLACK (100')	# OF SLACK	1	100
TOTAL 216CT F.O.C FOOTAGE			405

	216CT
BRIDGE ATTACHMENT	356
TOTAL 216CT F.O.C FOOTAGE	356

CONDUIT FOOTAGE (THIS SHEET)		
TYPE OF JOB	INSTALL	
TRENCH	4-1.5" HDPE CONDUITS	0
TRENCH BY HAND DIGGING	1-2" PVC CONDUIT	0
DIRECTIONAL BORE	4-1.5" HDPE CONDUITS	305
TOTAL CONDUIT FOOTAGE		305

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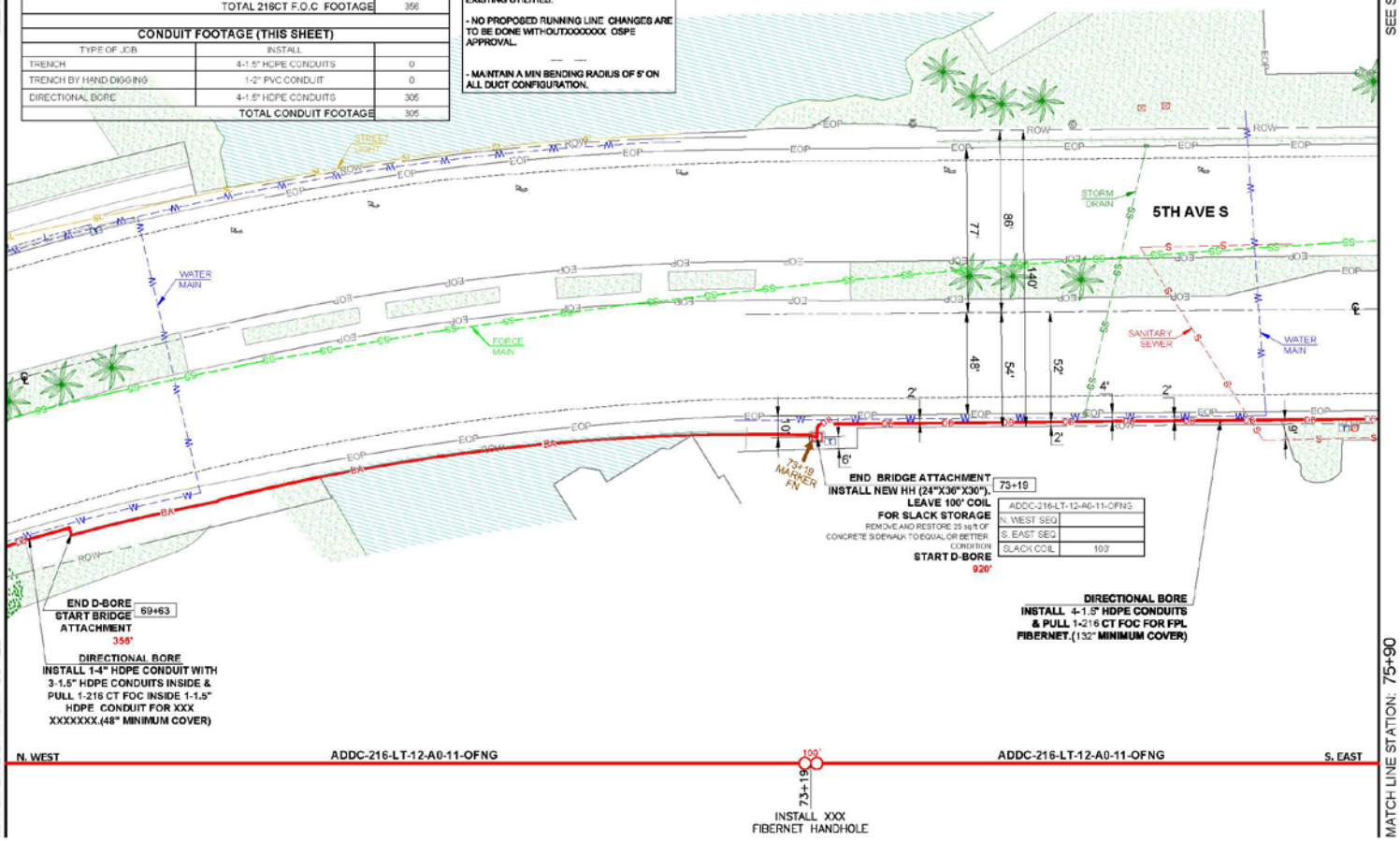
- NO PROPOSED RUNNING LINE CHANGES ARE TO BE DONE WITHOUTXXXXXXX OSPE APPROVAL.
- MAINTAIN A MIN BENDING RADIUS OF 5' ON ALL DUCT CONFIGURATION.



MATCH LINE STATION: 69+29

SEE SHEET: 013 OF 022

MATCH LINE STATION: 75+90

DIRECTION OF ENGINEERING.

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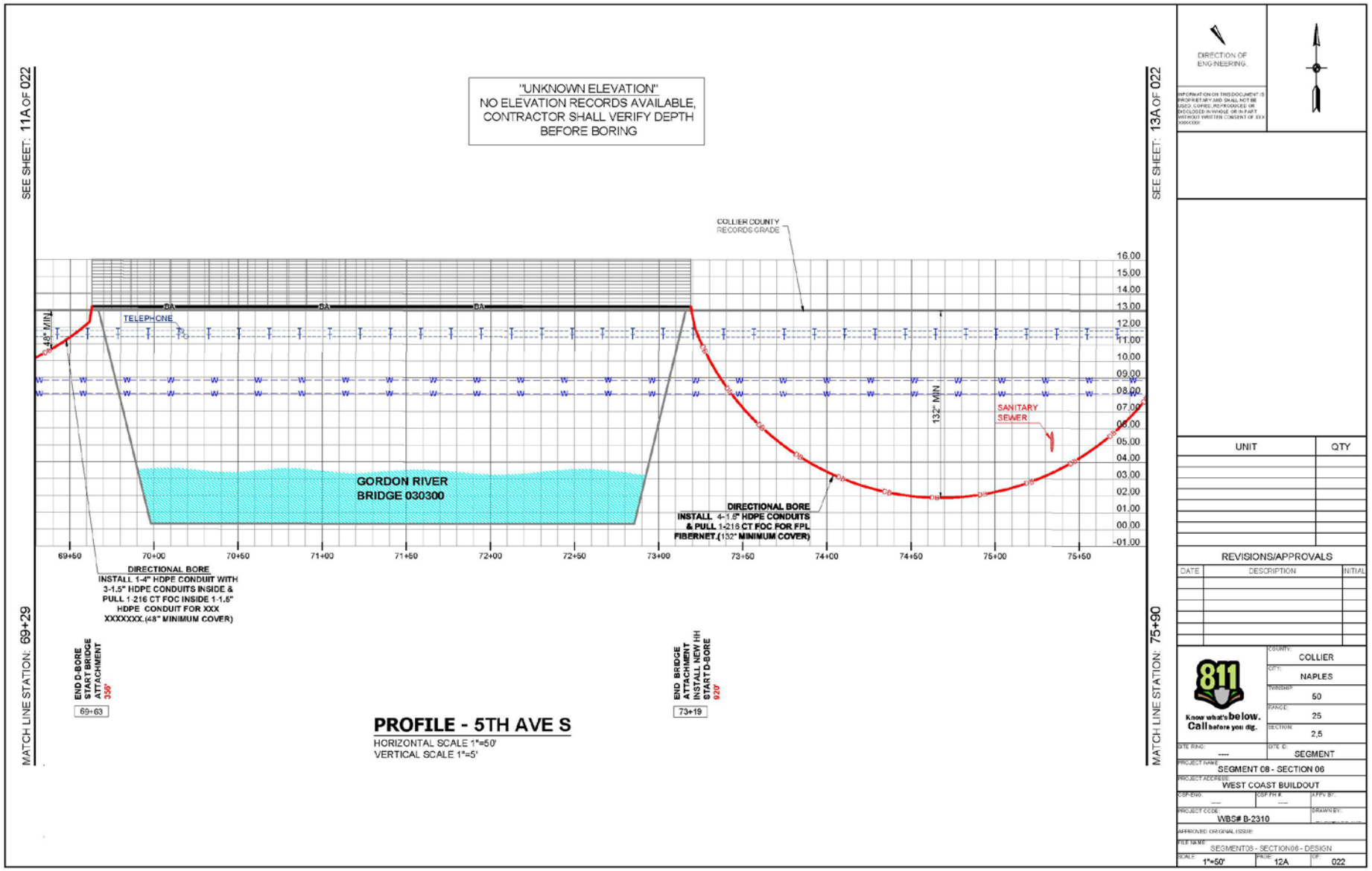
UNIT	QTY

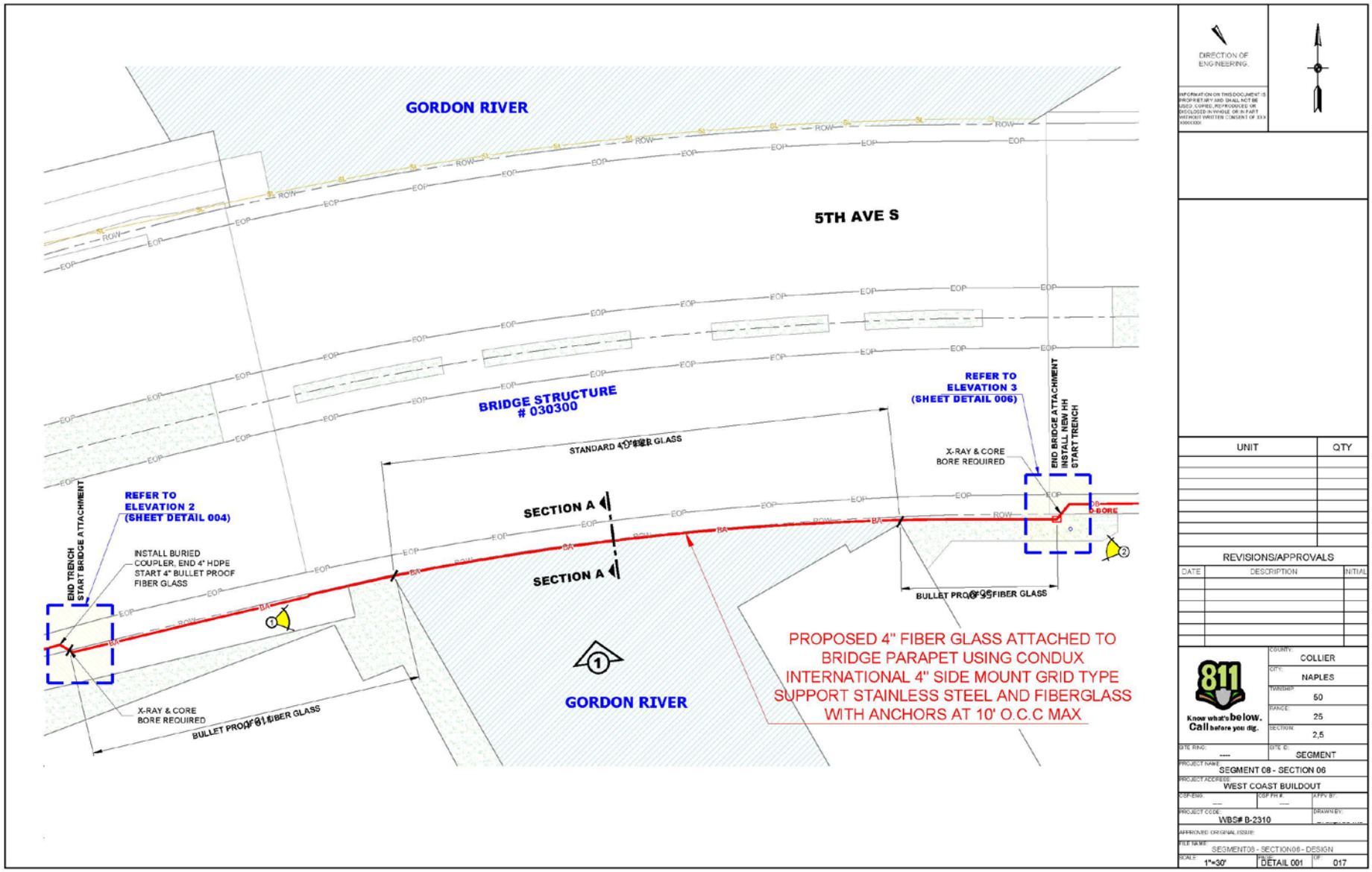
REVISIONS/APPROVALS

DATE	DESCRIPTION	INITIAL

811 Know what's below. Call before you dig.

COUNTY:	COLLIER
CITY:	NAPLES
TWNSHP:	50
RANGE:	25
SECTION:	2,5
SITE RING:	----
SITE ID:	SEGMENT
PROJECT NAME	SEGMENT 08 - SECTION 06
PROJECT ADDRESS	WEST COAST BUILDOUT
CSP-ENG:	---
CSP FH #:	---
APPV BY:	
PROJECT CODE:	WBS# B-2310
DRAWN BY:	
APPROVED ORIGINAL ISSUE:	
FILE NAME	SEGMENT08 - SECTION06 - DESIGN
SCALE:	1"=50'
PAGE:	012
OF:	022


SEE SHEET: 11A OF 022
MATCH LINE STATION: 69+29
"UNKNOWN ELEVATION"
NO ELEVATION RECORDS AVAILABLE,
CONTRACTOR SHALL VERIFY DEPTH
BEFORE BORING
COLLIER COUNTY
RECORDS GRADE
TELEPHONE
48" MIN
GORDON RIVER
BRIDGE 030300
132" MIN
SANITARY
SEWER
DIRECTIONAL BORE
INSTALL 4-1.5" HDPE CONDUITS
& PULL 1-216 CT FOC FOR FPL
FIBERNET (132" MINIMUM COVER)
DIRECTIONAL BORE
INSTALL 1-4" HDPE CONDUIT WITH
3-1.5" HDPE CONDUITS INSIDE &
PULL 1-216 CT FOC INSIDE 1-1.5"
HDPE CONDUIT FOR XXX
XXXXXXX (48" MINIMUM COVER)
END D-BORE
START BRIDGE
ATTACHMENT
356'
69+63
END BRIDGE
ATTACHMENT
INSTALL NEW HH
START D-BORE
920'
73+19
PROFILE - 5TH AVE S
HORIZONTAL SCALE 1"=50'
VERTICAL SCALE 1"=5'
SEE SHEET: 13A OF 022
MATCH LINE STATION: 75+90
DIRECTION OF
ENGINEERING.
UNIT
QTY
REVISIONS/APPROVALS
DATE
DESCRIPTION
INITIAL
Know what's below.
Call before you dig.
COUNTY: COLLIER
CITY: NAPLES
TWNSHIP: 50
RANGE: 25
SECTION: 2,5
SITE RING: ----
SITE ID: SEGMENT
PROJECT NAME: SEGMENT 08 - SECTION 06
PROJECT ADDRESS: WEST COAST BUILDOUT
PROJECT CODE: WBS# B-2310
FILE NAME: SEGMENT08 - SECTION06 - DESIGN
SCALE: 1"=50'
PAGE: 12A
OF: 022


GORDON RIVER
5TH AVE S
BRIDGE STRUCTURE
030300
REFER TO
ELEVATION 2
(SHEET DETAIL 004)
END TRENCH
START BRIDGE ATTACHMENT
INSTALL BURIED
COUPLER, END 4" HDPE
START 4" BULLET PROOF
FIBER GLASS
X-RAY & CORE
BORE REQUIRED
BULLET PROOF FIBER GLASS
STANDARD 4" FIBER GLASS
SECTION A
SECTION A
REFER TO
ELEVATION 3
(SHEET DETAIL 006)
END BRIDGE ATTACHMENT
INSTALL NEW HH
START TRENCH
X-RAY & CORE
BORE REQUIRED
BULLET PROOF FIBER GLASS
GORDON RIVER
PROPOSED 4" FIBER GLASS ATTACHED TO
BRIDGE PARAPET USING CONDUX
INTERNATIONAL 4" SIDE MOUNT GRID TYPE
SUPPORT STAINLESS STEEL AND FIBERGLASS
WITH ANCHORS AT 10' O.C.C MAX
DIRECTION OF
ENGINEERING.
UNIT
QTY
REVISIONS/APPROVALS
DATE
DESCRIPTION
INITIAL
Know what's below.
Call before you dig.
COUNTY: COLLIER
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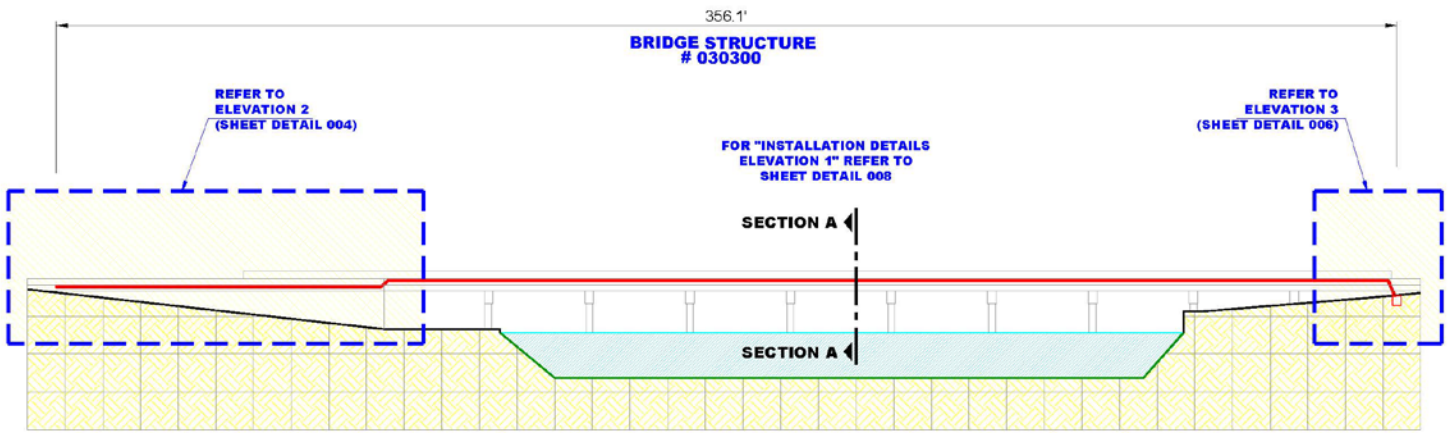
TWNSHIP: 50
RANGE: 25
SECTION: 2,5
SITE RING: ----
SITE ID: SEGMENT
PROJECT NAME: SEGMENT 08 - SECTION 06
PROJECT ADDRESS: WEST COAST BUILDOUT
PROJECT CODE: WBS# B-2310
FILE NAME: SEGMENT08 - SECTION06 - DESIGN
SCALE: 1"=30'
DETAIL 001
017



ELEVATION 1

SCALE : 1"=30'

DIRECTION OF ENGINEERING.

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UNIT	QTY

REVISIONS/APPROVALS

DATE	DESCRIPTION	INITIAL

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COUNTY:	COLLIER
CITY:	NAPLES
TWNSHIP:	50
RANGE:	25
SECTION:	2,5
SITE RING: ----	SITE ID: SEGMENT
PROJECT NAME	SEGMENT 08 - SECTION 06
PROJECT ADDRESS	WEST COAST BUILDOUT
CSP ENV: ----	CSP PH #: ---- APPV BY:
PROJECT CODE:	WBS# B-2310 DRAWN BY:
APPROVED ORIGINAL ISSUE:	
FILE NAME:	SEGMENT08 - SECTION06 - DESIGN
SCALE: 1"=30'	SHEET: DETAIL 002 OF: 017

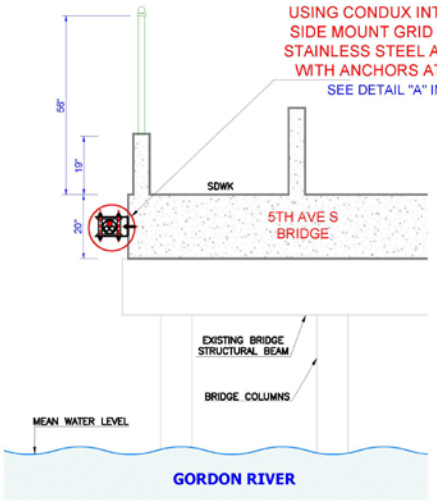
BRIDGE ATTACHMENT DETAIL

BRIDGE STRUCTURE 030300

356' OF CONDUIT WOULD BE ATTACHED TO BRIDGE PARAPET

PROPOSED 4" FIBER GLASS ATTACHED TO BRIDGE PARAPET USING CONDUX INTERNATIONAL 4" SIDE MOUNT GRID TYPE SUPPORT STAINLESS STEEL AND FIBERGLASS WITH ANCHORS AT 10' O.C.C MAX

SEE DETAIL "A" IN THIS SHEET



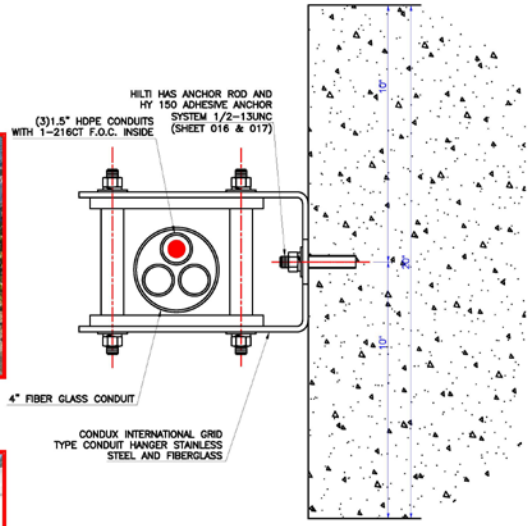
SECTION A-A

NTS

ATTACHMENT ONTO BRIDGE STRUCTURE SHALL HAVE ALL THE METALLIC PORTIONS OF THE ATTACHMENT HARDWARE (HANGERS, BOLTS, STRAPS, CONDUIT, ANCHORS, ETC) FABRICATED FROM 316 STAINLESS STEEL OR OTHER EQUAL MATERIAL

PICTURE 1

PICTURE 2



DETAIL A

NTS

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UNIT	QTY

REVISIONS/APPROVALS

DATE	DESCRIPTION	INITIAL

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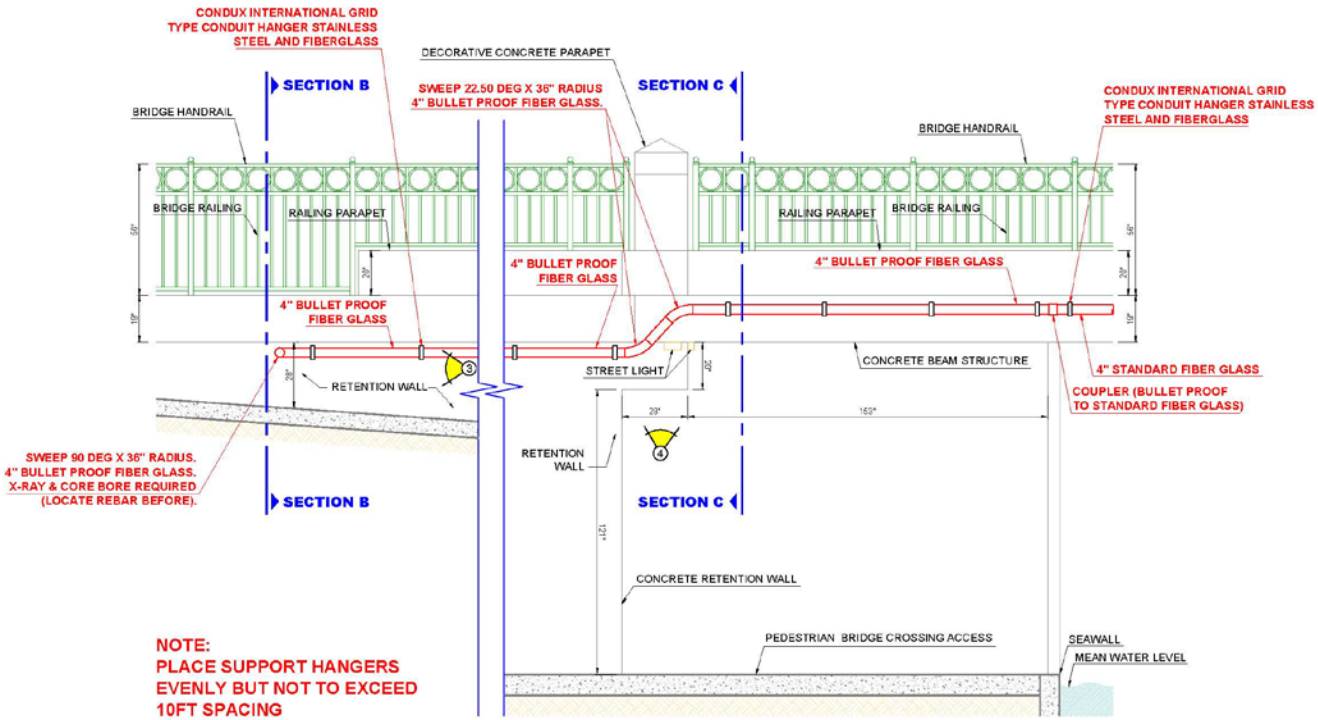
COUNTY:	COLLIER
CITY:	NAPLES
TWNSHIP:	50
RANGE:	25
SECTION:	2,5
SITE RING: ----	SITE ID: SEGMENT
PROJECT NAME:	SEGMENT 08 - SECTION 06
PROJECT ADDRESS:	WEST COAST BUILDOUT
CSP ENG: ----	CSP PH #: ---- / APPV BY:
PROJECT CODE:	WBS# B-2310 / DRAWN BY:
APPROVED ORIGINAL ISSUE:	
FILE NAME:	SEGMENT08 - SECTION06 - DESIGN
SCALE: NTS	SHEET: DETAIL 003 / OF: 017

ELEVATION 2



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COUNTY: COLLIER
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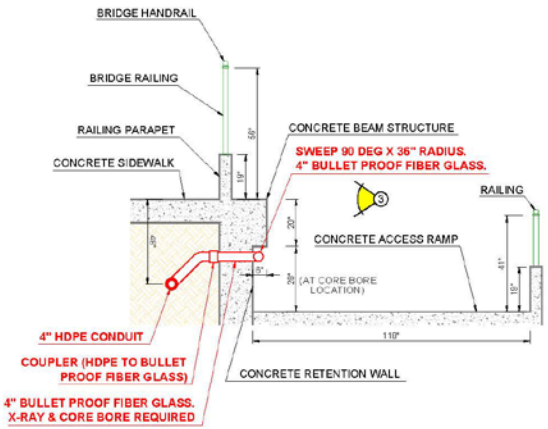
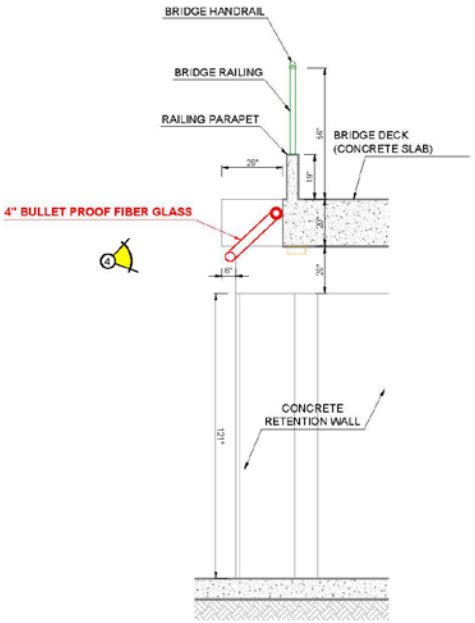
TWNSHIP: 50
RANGE: 25
SECTION: 2,5
SITE RING: ----
SITE ID: SEGMENT
PROJECT NAME: SEGMENT 08 - SECTION 06
PROJECT ADDRESS: WEST COAST BUILDOUT
CSP-EIW: ---
CSP PH #: ---
APPV BY:
PROJECT CODE: WBS# B-2310
DRAWN BY:
APPROVED ORIGINAL ISSUE:
FILE NAME: SEGMENT08 - SECTION06 - DESIGN
SCALE: 1"=4'
TITLE: DETAIL 004
OF: 017

SECTION B-B



SECTION C-C



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UNIT	QTY

REVISIONS/APPROVALS

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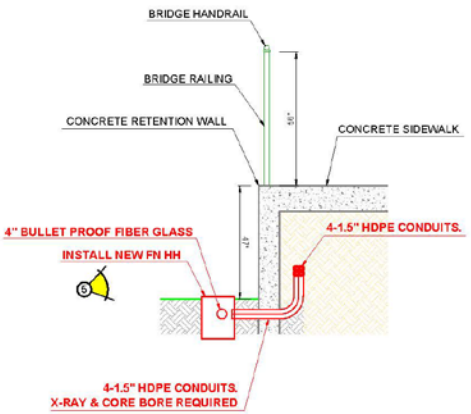
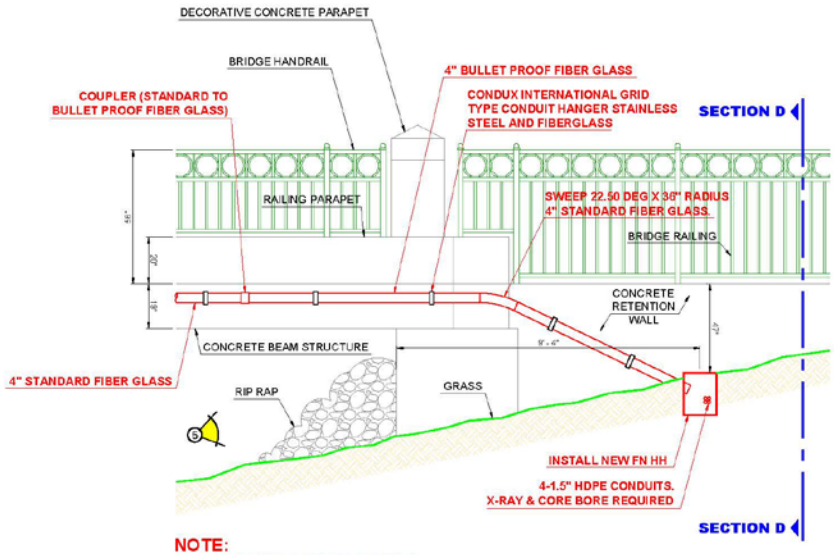
COUNTY:	COLLIER
CITY:	NAPLES
TWNSHIP:	50
RANGE:	25
SECTION:	2,5
SITE RING:	----
SITE ID:	SEGMENT
PROJECT NAME	SEGMENT 08 - SECTION 06
PROJECT ADDRESS	WEST COAST BUILDOUT
CSP ENV.	---
CSP PH #	---
APPV BY:	
PROJECT CODE:	WBS# B-2310
DRAWN BY:	
APPROVED ORIGINAL ISSUE:	
FILE NAME:	SEGMENT08 - SECTION06 - DESIGN
SCALE:	1"=4'
TITLE:	DETAIL 005
OF:	017

SECTION D-D



ELEVATION 3



NOTE:
PLACE SUPPORT HANGERS EVENLY BUT NOT TO EXCEED 10FT SPACING

DIRECTION OF ENGINEERING.

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UNIT	QTY

REVISIONS/APPROVALS

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811 Know what's below. Call before you dig.

COUNTY: COLLIER
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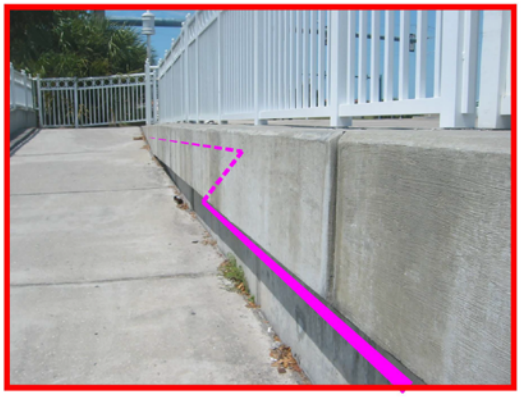
TWNSHIP: 50
RANGE: 25
SECTION: 2,5
SITE RING: ----
SITE ID: SEGMENT
PROJECT NAME: SEGMENT 08 - SECTION 06
PROJECT ADDRESS: WEST COAST BUILDOUT
CSP ENV: ---
CSP PH #: ---
APPV BY:
PROJECT CODE: WBS# B-2310
DRAWN BY:
APPROVED ORIGINAL ISSUE:
FILE NAME: SEGMENT08 - SECTION06 - DESIGN
SCALE: 1"=4'
TITLE: DETAIL 006
SHEET: 017



PICTURE 3

PICTURE 4

PICTURE 5

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RANGE:	25
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SITE RING: ----	SITE ID: SEGMENT
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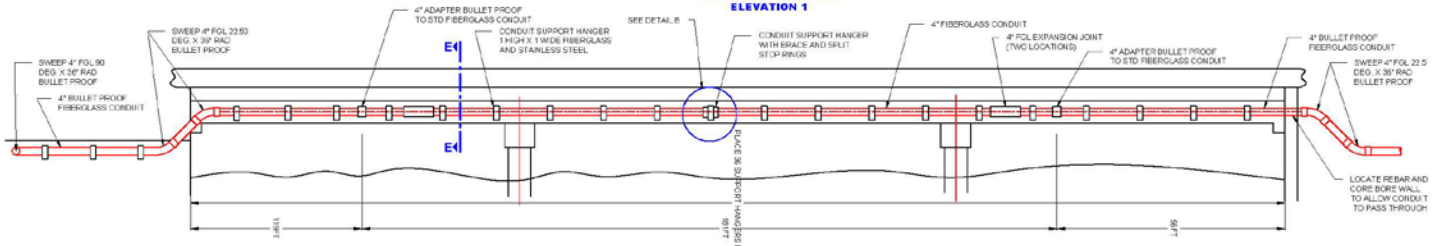
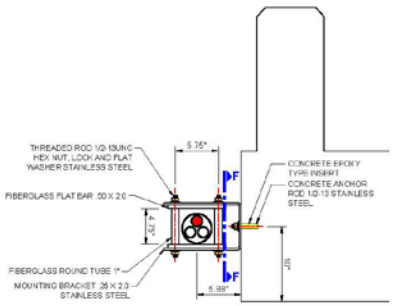
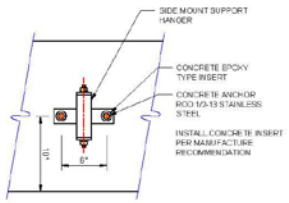
PROJECT ADDRESS:	WEST COAST BUILDOUT
CSP ENG: ----	CSP PH #: ---- APPV BY:
PROJECT CODE:	WBS# B-2310 DRAWN BY:
APPROVED ORIGINAL ISSUE:	
FILE NAME:	SEGMENT08 - SECTION06 - DESIGN
SCALE: NTS	SHEET: DETAIL 007 OF: 017

INSTALLATION DETAILS
ELEVATION 1

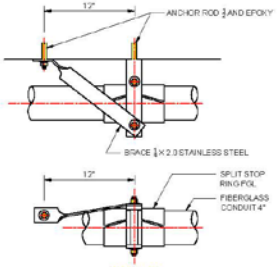




SECTION E-E
SIDE MOUNT SUPPORT HANGER
1 HIGH X 1 WIDE FIBERGLASS AND STAINLESS STEEL OPENING FOR ONE 4" FGL DUCTS



SECTION F-F
MOUNTING DETAIL



DETAIL B
STANDARD SUPPORT HANGER
WITH BRACES AND SPLIT STOP RINGS
ONE LOCATION CENTER MOST SUPPORT

GENERAL CONSTRUCTION, HANGER AND CONDUIT NOTES

1.0 RECOMMENDED SPACING BETWEEN SUPPORT IS 10 FOOT.
2.0 SUPPORT HANGER MATERIAL SHALL BE MANUFACTURED USING 316 STAINLESS STEEL AND FIBERGLASS COMPONENTS.
3.0 CONDUIT IS 4 INCH FIBERGLASS WITH MINIMUM WALL THICKNESS OF 09 INCH MEETING NEMA TC- 14A SPECS.
4.0 CONDUIT JOINTS SHALL BE POSITIVE LOCKING ADHESIVE BONDED BELL AND SPIGOT.
5.0 CONDUIT EXPANSION JOINTS SHALL BE SLIDING SLEEVE WITH PROVISION FOR 8 INCH OF TRAVEL.

6.0 CONDUIT SUPPORT HANGER WEIGHT	360 LBS TOTAL
FIBERGLASS CONDUIT WEIGHT	645 LBS TOTAL
CABLE WEIGHT	175 LBS TOTAL
INNERDUCT WEIGHT	226 LBS TOTAL
EXPECTED LOAD PER SUPPORT	39.5 LBS

GRAND TOTAL BEGINNINGS PLACED ON THE BRIDGE IS 1406 LBS OR 3.95 LBS PER LF

CONDUX INTERNATIONAL, INC. SUPPORT HANGER MEET THE FOLLOWING SPECIFICATIONS
FIBERGLASS ITEMS
FLAT BAR 1/2 X 2.0
ROUND TUBE 1.0" O.D. .105 WALL
SQUARE TUBE 2 X 2 X 1/8
FIBERGLASS REINFORCED WITH POLYESTER RESIN WITH SURFACE VEIL FOR BETTER WEATHERING. RESIN SHALL CONTAINS U.V. INHIBITOR.
FIBERGLASS IS MADE WITH CONTINUOUS STRAND MAT AND UNI-DIRECTIONAL ROVING.
GRAY IN COLOR
TENSILE STRENGTH (ASTM D 638) 30,000 PSI
TENSILE MODULES (ASTM D 638) 2.0E6 PSI
FLEXURAL STRENGTH (ASTM D 790) 30,000 PSI
FLEXURAL MODULES (ASTM D 790) 2.0E6 PSI
COMPRESSIVE STRENGTH (ASTM D 695) 20,000 PSI
COMPRESSIVE MODULES 1.4E6 PSI
YIELD SHEAR STRENGTH 2000 PSI
BARCOL HARDNESS 50
DIELECTRIC STRENGTH (ASTM D 149) 200 VPM MIN.

STAINLESS STEEL HARDWARE ITEMS
THREADED ROD
THREADED ROD MEETS (ASTM/ASME B1.1)
(ASTM F593 CW GRADE A)
HEXNUT
HEXNUT MEETS (ANSI/ASME B18.2.2)
MATERIAL: 316 STAINLESS STEEL (ASTM F594) CW
FLATWASHER
FLATWASHER MEETS (ANSI/ASME B18.22.1)
MATERIAL: 316 STAINLESS STEEL
LOCKWASHER
LOCKWASHER MEETS (ANSI/ASME B18.21.1)
MATERIAL: 316 STAINLESS STEEL

MOUNTING BRACHET
MATERIAL: FLAT BAR .25 X 2.0
TYPE 316 STAINLESS STEEL

CONCRETE INSERT HILTI HIT HY 150 INJECTION ADHESIVE ANCHORING SYSTEM: TENSILE BOND STRENGTH ON 2000PSI CONCRETE WITH EMBEDMENT OF 2.25IN: TENSILE 1385LB, SHEAR 1925LB

SCOPE OF WORK:

INSTALL CONCRETE INSERTS, CONDUIT SUPPORT HANGERS, SUPPORT HANGER BRACING, ONE RUN OF FIBERGLASS CONDUIT AND FITTINGS FIBERGLASS SWEEP AROUND ABUTMENT WALL AND EXTEND. ACTUAL TERMINATION POINT TO BE DETERMINED BY XXX.

ALL MATERIALS WILL BE FURNISHED BY XXX.

ITEM NO.	PART NO.	DESCRIPTION	QTY	UNIT
1	08386521	CONDUIT SUPPORT SIDE MOUNT HANGER 1 HIGH X 1 WIDE FIBERGLASS AND STAINLESS STEEL, OPENING FOR ONE 4" FGL DUCT	36	EA.
2	08386172	BRACE STAINLESS	1	EA.
3	08584147	ANCHOR ROD 1/2-13 STAINLESS	73	EA.
4	02288566	HILTI CONCRETE ANCHOR EPOXY	5	EA.
5	02288567	HILTI DISPENSER GUN	1	EA.
6	08470044	CONDUIT FIBERGLASS: 4" (4.51 O.D.X .095 WALL) MEETING NEMA TC-14A	200	FT.
7	08470044	CONDUIT STOP COUPLING: 4" IPS MW	2	EA.
8	08470444	CONDUIT EXPANSION JOINT: 4" FGL	2	EA.
9	08470944	SPLIT STOP RING: 4" FGL	2	EA.
10	08470045	CONDUIT FIBERGLASS: 4" (4.50 O.D.X .25 WALL)	200	FT.
11	TBA	SWEEP: 4" FGL 90 DEG. X 36IN RAD. BULLET PROOF	1	EA.
12	TBA	SWEEP: 4" FGL 22.5 DEG. X 36IN RAD. BULLET PROOF	4	EA.
13	TBA	CONDUIT STOP COUPLING: 4" BULLET PROOF	10	EA.
14	08463402	CONDUIT EPOXY ADHESIVE CARTRIDGE	8	EA.
15	02288600	DISPENSER ADHESIVE CARTRIDGE FGL	1	EA.

DIRECTION OF ENGINEERING.

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UNIT	QTY

REVISIONS/APPROVALS

DATE	DESCRIPTION	INITIAL

Know what's below. Call before you dig.

COUNTY: COLLIER
CITY: NAPLES
TWNSHIP: 50
RANGE: 25
SECTION: 2,5
SITE RING: ----
SITE ID: SEGMENT
PROJECT NAME: SEGMENT 08 - SECTION 06
PROJECT ADDRESS: WEST COAST BUILDOUT
CSP ENG: ---
CSP PH #: ---
APPV BY:
PROJECT CODE: WBS# B-2310
DRAWN BY:
APPROVED ORIGINAL ISSUE:
FILE NAME: SEGMENT08 - SECTION06 - DESIGN
SCALE: NTS
TITLE: DETAIL 006
OF: 017