



1 PHOTO
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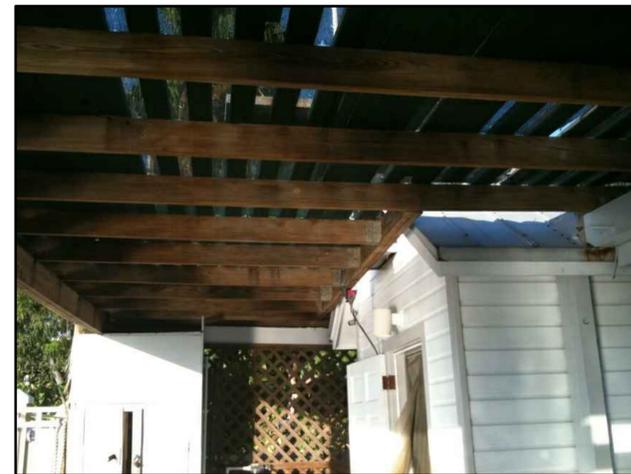
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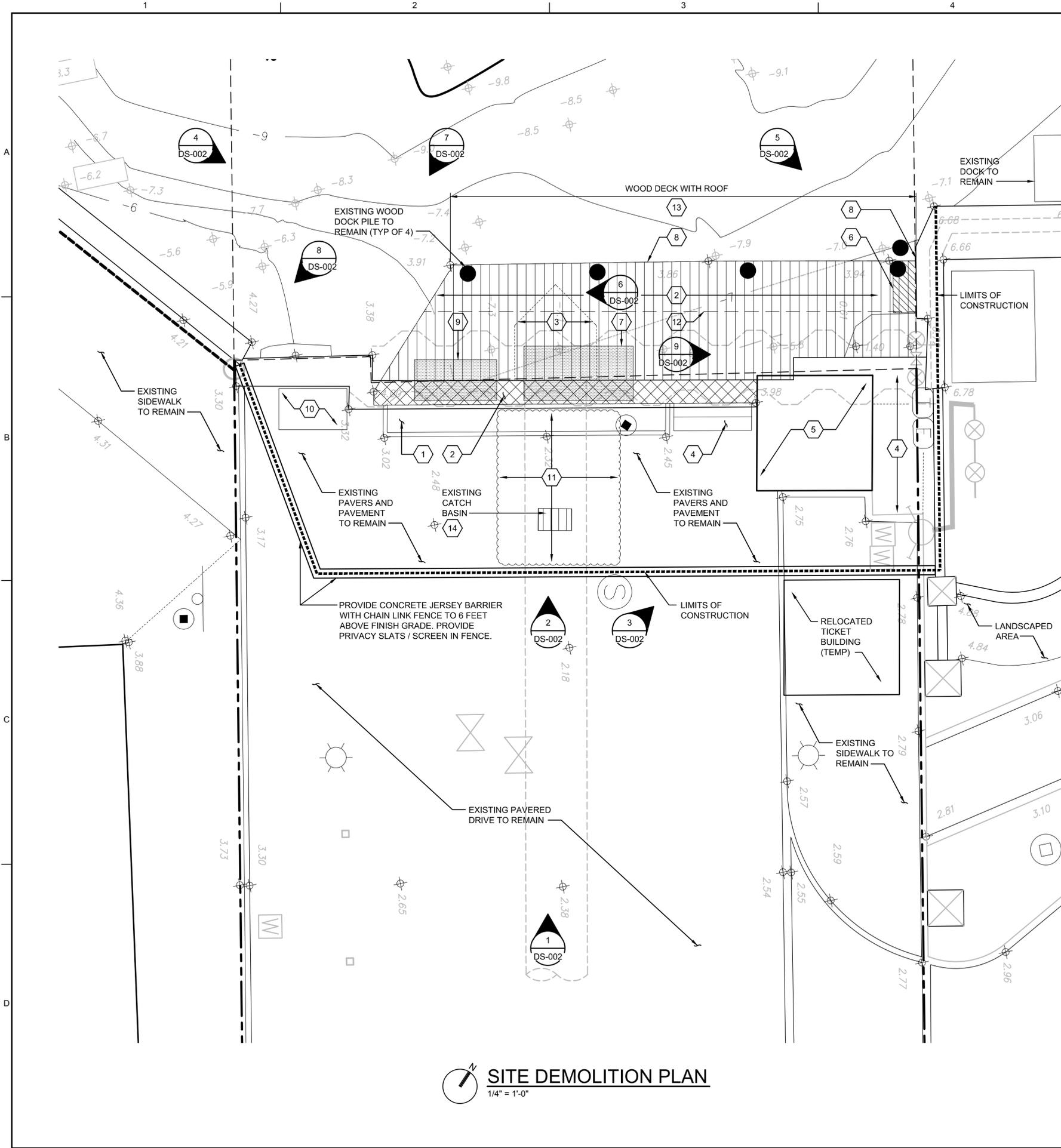
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<p>CH2MHILL SITE ZERO DUVAL EXISTING SITE PHOTOS</p>		<p>3001 PGA BLVD, SUITE 300 PALM BEACH GARDENS, FL 33410 EB0000072 AAC001982</p>		<p>REPAIRS AND IMPROVEMENTS AT ZERO DUVAL AND WALLORY SQUARE FOR CITY OF KEY WEST, FLORIDA</p>	
		<p>3001 PGA BLVD, SUITE 300 PALM BEACH GARDENS, FL 33410 EB0000072 AAC001982</p>		<p>REPAIRS AND IMPROVEMENTS AT ZERO DUVAL AND WALLORY SQUARE FOR CITY OF KEY WEST, FLORIDA</p>	
<p>VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"</p>		<p>DATE JANUARY 2016 PROJ 439197 DWG DS-001</p>		<p>NO. DATE DSGN DR REVISION CHK APVD</p>	
<p>DATE JANUARY 2016 PROJ 439197 DWG DS-001</p>		<p>NO. DATE DSGN DR REVISION CHK APVD</p>		<p>BY APVD J.C. LONG J.C. LONG A. VANHOOSER A. ARTHAY J.C. LONG</p>	

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SITE DEMOLITION PLAN
1/4" = 1'-0"

GENERAL NOTES:

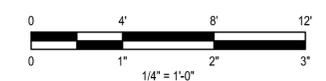
- EXISTING SITE SHALL BE BARRICADED AS INDICATED WITH A CONCRETE PRECAST BARRIER WALL SYSTEM WITH CHAIN LINK FENCE AND PRIVACY SLATS SCREEN. BARRIER WALL SYSTEM SHALL BE COORDINATED WITH THE OWNER FOR THE NECESSARY LOCATION DURING CONSTRUCTION. ALL ITEMS IDENTIFIED TO BE ADDRESSED IN THE KEY NOTES BELOW SHALL BE ADDRESSED. ALL ELEMENTS WITHIN LIMITS OF CONSTRUCTION, NOT IDENTIFIED TO BE REPAIRED, DEMOLISHED OR ADDRESSED BY THE CONTRACTOR SHALL REMAIN UNTOUCHED BUT WILL BE REPAIRED IF DAMAGED DURING CONSTRUCTION. EXISTING PAVERS, CONCRETE CURBS AND OTHER AESTHETIC FEATURES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION UPON COMPLETION OF CONSTRUCTION, IF DAMAGED DURING THE CONSTRUCTION PROCESS.
- UPON RECONSTRUCTION OF THE EXISTING WOOD DOCK, THE CONTRACTOR SHALL RETURN ALL FURNITURE, FURNISHINGS, EQUIPMENT, OTHER ELEMENTS, TO THEIR ORIGINAL LOCATIONS AND CONDITION, INCLUDING ALL UTILITIES AND OTHER CONNECTIONS REMOVED AS A RESULT OF CONSTRUCTION. CONTRACTOR SHALL THOROUGHLY PHOTOGRAPH THE SITE AND AS-BUILT THE AREA PRIOR TO DISMANTLING AND DEMOLITION TO PROVIDE A RECORD OF ELEMENTS TO BE REINSTALLED.

KEYED NOTES:

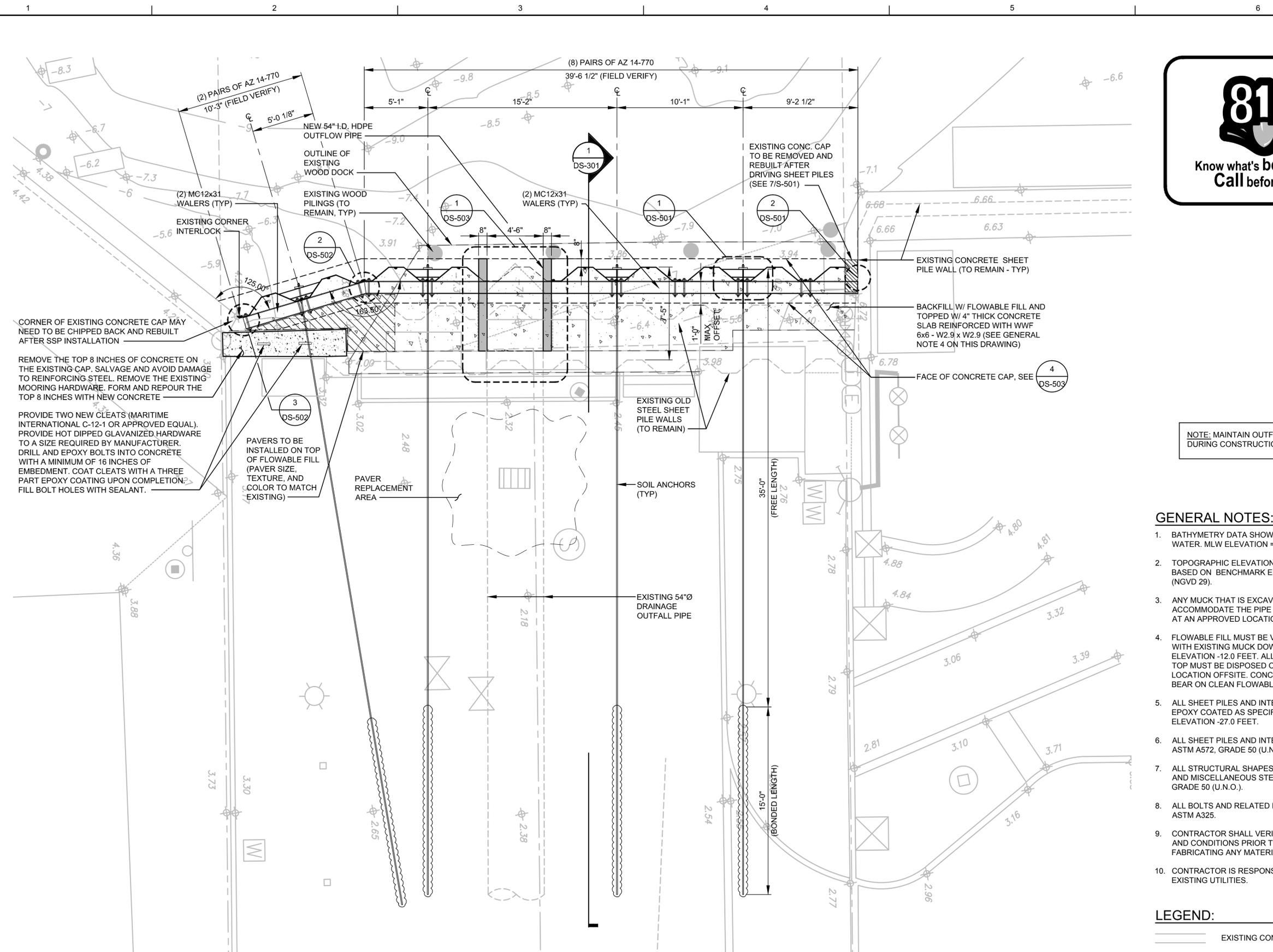
- MAINTAIN EXISTING PLANTER IN CURRENT LOCATION DURING CONSTRUCTION UNLESS REQUIRED TO BE RELOCATED FOR THE PURPOSES OF CONSTRUCTION. IF PLANTER IS RELOCATED, IT SHALL BE MOVED BY CONTRACTOR TO A SECURE LOCATION OFF-SITE AND RETURNED AND RESTORED TO ITS ORIGINAL CONDITION BY CONTRACTOR PRIOR TO COMPLETION OF PROJECT.
- MAINTAIN EXISTING OVERHEAD SIGN FOR THE PROJECT IN ITS CURRENT LOCATION DURING CONSTRUCTION UNLESS REQUIRED BY CONTRACTOR TO BE REMOVED TO IMPLEMENT CONSTRUCTION PROJECT. SHOULD REMOVAL OF SIGN BE REQUIRED, CONTRACTOR SHALL DISASSEMBLE THE SIGN IN ITS ENTIRETY AND STORE IT OFF-SITE. CONTRACTOR SHALL REASSEMBLE SIGN TO ITS ORIGINAL CONDITION UPON COMPLETION OF CONSTRUCTION. CONTRACTOR SHALL RETAIN THE SERVICES OF A LICENSED ENGINEER IN THE STATE OF FLORIDA FOR REVISED ENGINEERING ON SIGN TO MEET CURRENT CODES AND BUILDING DEPARTMENT APPROVAL.
- REMOVE IN ITS ENTIRETY AND LEGALLY DISPOSE OF OFF-SITE THE EXISTING 5'-8" x 5'-8" SQUARE STEEL PLATE W/ 3/8" LONG COLLAR AND UNDERWATER RUBBER BAFFLE AT OUTFALL TO STORM WATER SYSTEM. MAINTAIN OUTFALL DURING CONSTRUCTION. DO NOT PLUG.
- MAINTAIN EXISTING CONCRETE STEPS AND RAMP IN THEIR ENTIRETY DURING CONSTRUCTION. PATCH AND REPAIR STEPS UPON COMPLETION OF CONSTRUCTION. CONTRACTOR SHALL WIDEN STEPS AND RAMP TO COMPLY WITH ADA INCLUDING RAILINGS.
- REMOVE EXISTING TICKET BUILDING AND RELOCATE TO A LOCATION AS INDICATED ON DRAWING. EXISTING BOOTH SHALL BE MAINTAINED IN FULL OPERATION AT TEMPORARY LOCATION INCLUDING WATER AND POWER DURING THE CONSTRUCTION OF BULKHEAD. CONTRACTOR SHALL COORDINATE TEMPORARY WATER AND POWER CONNECTIONS FOR BUILDING AS WELL AS PROVIDE HURRICANE TIE-DOWNS AND FOUNDATION SUPPORTS FOR BUILDING DURING BULKHEAD CONSTRUCTION. UPON COMPLETION OF CONSTRUCTION, BUILDING SHALL BE RETURNED TO ITS ORIGINAL LOCATION AND TIED DOWN TO GROUND AS REQUIRED UNDER CURRENT BUILDING CODE. ALL FOUNDATIONS, ELECTRICAL AND WATER SHALL BE RESTORED TO ITS ORIGINAL CONDITION. CONTRACTOR SHALL RETAIN THE SERVICES OF A LICENSED ENGINEER IN THE STATE OF FLORIDA FOR REVISED ENGINEERING ON BUILDING AND FOUNDATION TO MEET CURRENT CODES AND BUILDING DEPARTMENT APPROVAL.
- CONTRACTOR SHALL REMOVE EXISTING WOOD STORAGE BOX FROM TOP OF WOOD DECK, INCLUDING ALL ITEMS STORED WITHIN. BOX SHALL BE TRANSPORTED AND STORED OFF-SITE BY CONTRACTOR FOR REINSTALLATION UPON COMPLETION OF CONSTRUCTION. COORDINATE WITH TENANT AND OWNER WITH RESPECT TO THE CONTENTS OF BOX AND THE FINAL LOCATION UPON COMPLETION OF WOOD DECK CONSTRUCTION. BOX SHALL BE FASTENED TO FINISHED WOOD DECK.
- CONTRACTOR SHALL COORDINATE WITH TENANT FOR REMOVAL OF EXISTING WOOD STORAGE LOCKER FROM TOP OF WOOD DECK, INCLUDING ALL ITEMS STORED WITHIN. BOX SHALL BE TRANSPORTED AND STORED OFF-SITE BY CONTRACTOR FOR REINSTALLATION UPON COMPLETION OF CONSTRUCTION. COORDINATE WITH TENANT AND OWNER WITH RESPECT TO THE CONTENTS AND THE FINAL LOCATION UPON COMPLETION OF WOOD DECK CONSTRUCTION. BOX SHALL BE FASTENED TO FINISHED WOOD DECK.
- CONTRACTOR SHALL REMOVE EXISTING WATER MAIN, CAP AND PLUG AT POINT OF CONNECTION, AND PROVIDE A NEW VALVE AT REMOVAL POINT. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL RE-INSTALL WATER LINE FROM VALVE TO ORIGINAL ALIGNMENT AND TERMINATION POINT. WATER SHALL BE RESTORED TO ORIGINAL / NORMAL OPERATION.
- CONTRACTOR SHALL COORDINATE WITH TENANT FOR REMOVAL OF EXISTING REFRIGERATOR FROM TOP OF WOOD DECK, INCLUDING ALL ITEMS STORED WITHIN. REFRIGERATOR SHALL BE TRANSPORTED AND STORED OFF-SITE BY CONTRACTOR FOR REINSTALLATION UPON COMPLETION OF CONSTRUCTION. COORDINATE WITH TENANT AND OWNER WITH RESPECT TO THE CONTENTS AND THE FINAL LOCATION UPON COMPLETION. RE-INSTALL ALL ELECTRICAL POWER SOURCE FOR REFRIGERATOR UPON COMPLETION OF CONSTRUCTION OF WOOD DECK AND RETURN REFRIGERATOR TO FULL OPERATION. REFRIGERATOR SHALL BE FASTENED TO FINISHED WOOD DECK.
- CONTRACTOR SHALL REMOVE EXISTING STORAGE BOX / LOCKER FROM TOP OF EXISTING PAVEMENT, INCLUDING ALL ITEMS STORED WITHIN. BOX / LOCKER SHALL BE TRANSPORTED AND STORED OFF-SITE BY CONTRACTOR FOR REINSTALLATION UPON COMPLETION OF CONSTRUCTION OF PROJECT. COORDINATE WITH TENANT AND OWNER WITH RESPECT TO THE CONTENTS AND THE FINAL LOCATION UPON COMPLETION. BOX SHALL BE FASTENED TO FINISHED PAVEMENT.
- CONTRACTOR SHALL REMOVE EXISTING PAVERS IN THEIR ENTIRETY WITHIN THE AREA SHOWN AND EXPOSE OUTFALL PIPE TO BOTTOM OF PIPE. EXAMINE CONDITION OF PIPE WITH OWNER AND ENGINEER AND REPAIR OPEN JOINT WITH FILTER CLOTH WRAP AND A CONCRETE COLLAR (6" x 12" x CONTINUOUS) AND CRACKS IN PIPE WITH GROUT AND EPOXY INJECTION. BACKFILL AND COMPACT SITE TO A MAXIMUM OF 2% SLOPE. BACKFILL HOLE WITH FLOWABLEFILL. BACKFILL AND COMPACT OTHER AREAS WITH NEW SUBGRADE MATERIAL (98% MODIFIED PROCTOR) AS REQUIRED TO REMOVE POTHOLES AND BUMPS. RE-INSTALL EXISTING PAVERS AS NECESSARY TO PROVIDE A COMPLETE SLOPED GRADE TO DRAIN. PROVIDE A MINIMUM OF 12" OF FLOWABLE FILL BELOW ALL REINSTALLED PAVERS.
- CONTRACTOR SHALL CUT AND TRIM EXISTING EXPOSED AND UNDERWATER STEEL SHEET PILE BULKHEAD (AS REQUIRED) TO CONSTRUCT NEW STEEL PILE BULKHEAD AND OUTFALL STRUCTURES. ITEMS SHALL BE LEGALLY DISPOSED OF OFF-SITE.
- CONTRACTOR SHALL REMOVE EXISTING WOOD DECKING STRUCTURE BOTH FLOOR AND ROOF IN ITS ENTIRETY AND SALVAGE FOR RE-INSTALLATION MEETING CURRENT DESIGN CODES UPON COMPLETION OF CONSTRUCTION OF NEW BULKHEAD. EXISTING WOOD PILING SHALL REMAIN IN PLACE. EXISTING WOOD PLANKING, JOISTS, PURLINS, GIRTS, AND ROOF FRAMING SHALL BE MAINTAINED AS PART OF THE DEMOLITION PROJECT. DAMAGED ELEMENTS SHALL BE REPLACED BY CONTRACTOR AS PART OF THE BASE BID. CONTRACTOR SHALL RETAIN THE SERVICES OF A LICENSED ENGINEER IN THE STATE OF FLORIDA FOR REVISED ENGINEERING ON SIGN TO MEET CURRENT CODES AND BUILDING DEPARTMENT APPROVAL.
- PROVIDE FILTER CLOTH AND HAY BALES ON EXISTING CATCH BASIN DURING CONSTRUCTION.

LEGEND:

- REFERENCE PHOTO INDICATOR. ARROW INDICATES DIRECTION OF PHOTO. SEE DRAWING DS-001.



BID SET		BY	J.C. LONG
		APVD	J.C. LONG
		CHK	A. VANHOOSER
		DR	A. ARTHAY
		REVISION	J.C. LONG
		NO.	DATE
		DSGN	
CH2MHILL 3001 PGA BLVD, SUITE 300 PALM BEACH GARDENS, FL 33410 EB0000072 AAC001982		REPAIRS AND IMPROVEMENTS AT ZERO DUVAL AND MALLORY SQUARE FOR CITY OF KEY WEST, FLORIDA	
SITE ZERO DUVAL SITE DEMOLITION PLAN			
VERIFY SCALE			
BAR IS ONE INCH ON ORIGINAL DRAWING.			
DATE	JANUARY 2016		
PROJ	439197		
DWG	DS-100		



CORNER OF EXISTING CONCRETE CAP MAY NEED TO BE CHIPPED BACK AND REBUILT AFTER SSP INSTALLATION

REMOVE THE TOP 8 INCHES OF CONCRETE ON THE EXISTING CAP. SALVAGE AND AVOID DAMAGE TO REINFORCING STEEL. REMOVE THE EXISTING MOORING HARDWARE. FORM AND REPOUR THE TOP 8 INCHES WITH NEW CONCRETE

PROVIDE TWO NEW CLEATS (MARITIME INTERNATIONAL C-12-1 OR APPROVED EQUAL). PROVIDE HOT DIPPED GALVANIZED HARDWARE TO A SIZE REQUIRED BY MANUFACTURER. DRILL AND EPOXY BOLTS INTO CONCRETE WITH A MINIMUM OF 16 INCHES OF EMBEDMENT. COAT CLEATS WITH A THREE PART EPOXY COATING UPON COMPLETION. FILL BOLT HOLES WITH SEALANT.

PAVERS TO BE INSTALLED ON TOP OF FLOWABLE FILL (PAVER SIZE, TEXTURE, AND COLOR TO MATCH EXISTING)

PAVER REPLACEMENT AREA



NOTE: MAINTAIN OUTFALL FLOW DURING CONSTRUCTION. DO NOT PLUG.

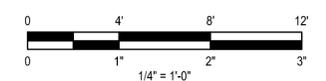
GENERAL NOTES:

- BATHYMETRY DATA SHOWN REFER TO MEAN LOW WATER. MLW ELEVATION = (-) 0.18 FEET (NGVD 29).
- TOPOGRAPHIC ELEVATIONS SHOWN IN FEET BASED ON BENCHMARK ELEVATION = 6.391 FEET (NGVD 29).
- ANY MUCK THAT IS EXCAVATED TO ACCOMMODATE THE PIPE MUST BE DISPOSED OF AT AN APPROVED LOCATION OFFSITE.
- FLOWABLE FILL MUST BE VIBRATED IN AND MIXED WITH EXISTING MUCK DOWN FOR 5 FEET TO ELEVATION -12.0 FEET. ALL MUCK THAT COMES TO TOP MUST BE DISPOSED OF AT AN APPROVED LOCATION OFFSITE. CONCRETE SLAB SHALL ONLY BEAR ON CLEAN FLOWABLE FILL.
- ALL SHEET PILES AND INTERLOCKS SHALL BE EPOXY COATED AS SPECIFIED DOWN TO ELEVATION -27.0 FEET.
- ALL SHEET PILES AND INTERLOCKS SHALL BE ASTM A572, GRADE 50 (U.N.O.).
- ALL STRUCTURAL SHAPES, CHANNELS, PLATES, AND MISCELLANEOUS STEEL SHALL BE ASTM A572, GRADE 50 (U.N.O.).
- ALL BOLTS AND RELATED HARDWARE SHALL BE ASTM A325.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO ORDERING OR FABRICATING ANY MATERIALS.
- CONTRACTOR IS RESPONSIBLE FOR LOCATION OF EXISTING UTILITIES.

LEGEND:

- EXISTING CONSTRUCTION (TO REMAIN)
- NEW CONSTRUCTION

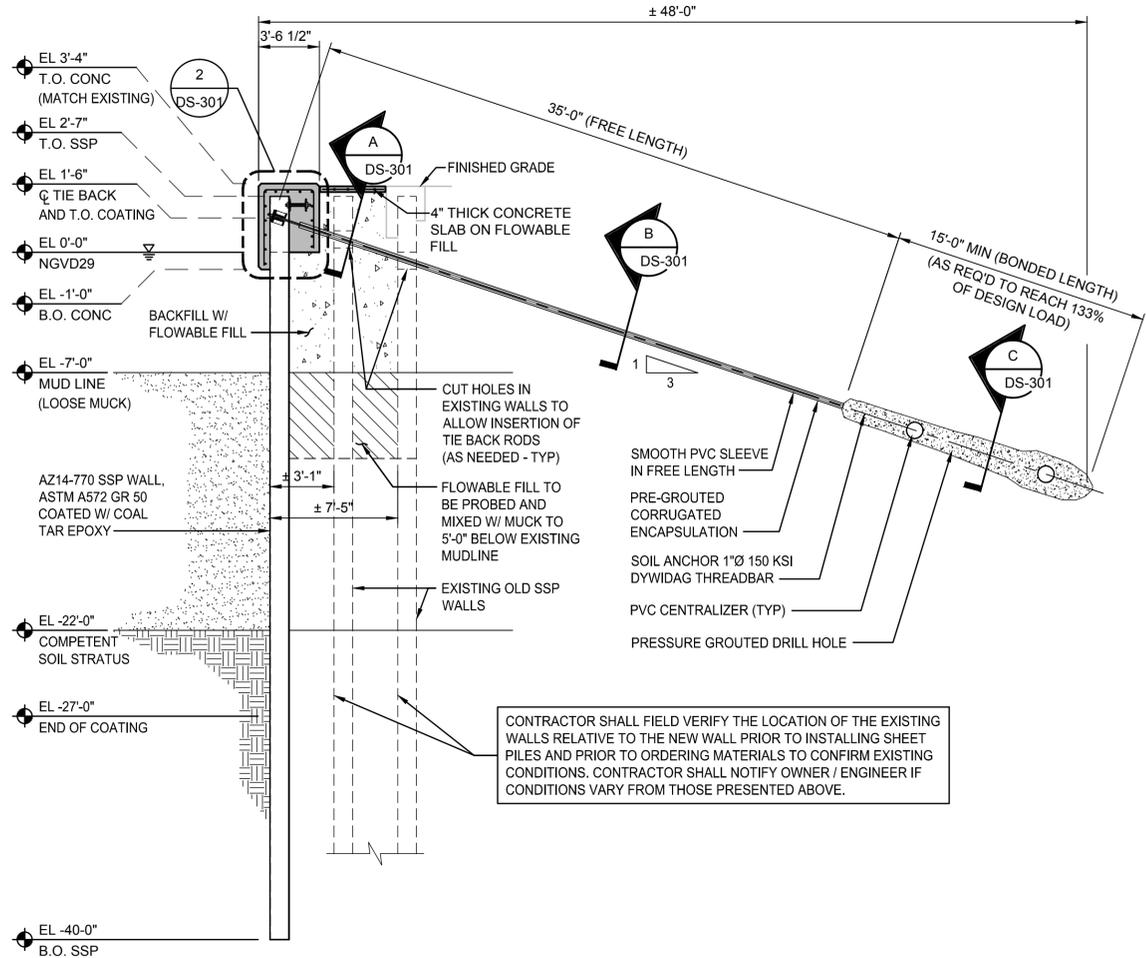
BULKHEAD PLAN
1/4" = 1'-0"



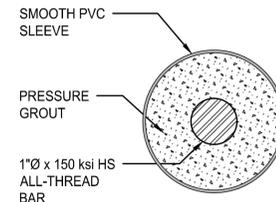
BID SET		BY	J.C. LONG
		APVD	J.C. LONG
3001 PGA BLVD, SUITE 300 PALM BEACH GARDENS, FL 33410 EB0000072 AAC001982	CH2MHILL® SITE ZERO DUVAL BULKHEAD LAYOUT PLAN	NO.	DATE
		DSGN	DR
		REVISION	CHK
		APVD	APVD
REPAIRS AND IMPROVEMENTS AT ZERO DUVAL AND WALLORY SQUARE FOR CITY OF KEY WEST, FLORIDA		A. VANHOOSER A. ARTHAY J.C. LONG J.C. LONG	© CH2M HILL 2012. ALL RIGHTS RESERVED. THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.		DATE JANUARY 2016	PROJ 439197
DWG DS-101		FILENAME: D15-DS-101_439197.DWG	PLOT DATE: 01/04/2016
BID SET - JANUARY 2016		PLOT TIME: 4:10 PM	REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.

1 BULKHEAD WALL SECTION

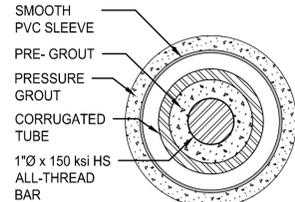
3/16" = 1'-0"



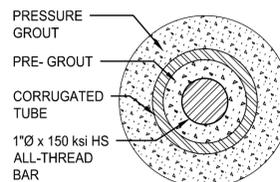
CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF THE EXISTING WALLS RELATIVE TO THE NEW WALL PRIOR TO INSTALLING SHEET PILES AND PRIOR TO ORDERING MATERIALS TO CONFIRM EXISTING CONDITIONS. CONTRACTOR SHALL NOTIFY OWNER / ENGINEER IF CONDITIONS VARY FROM THOSE PRESENTED ABOVE.



A DETAIL
6" = 1'-0"



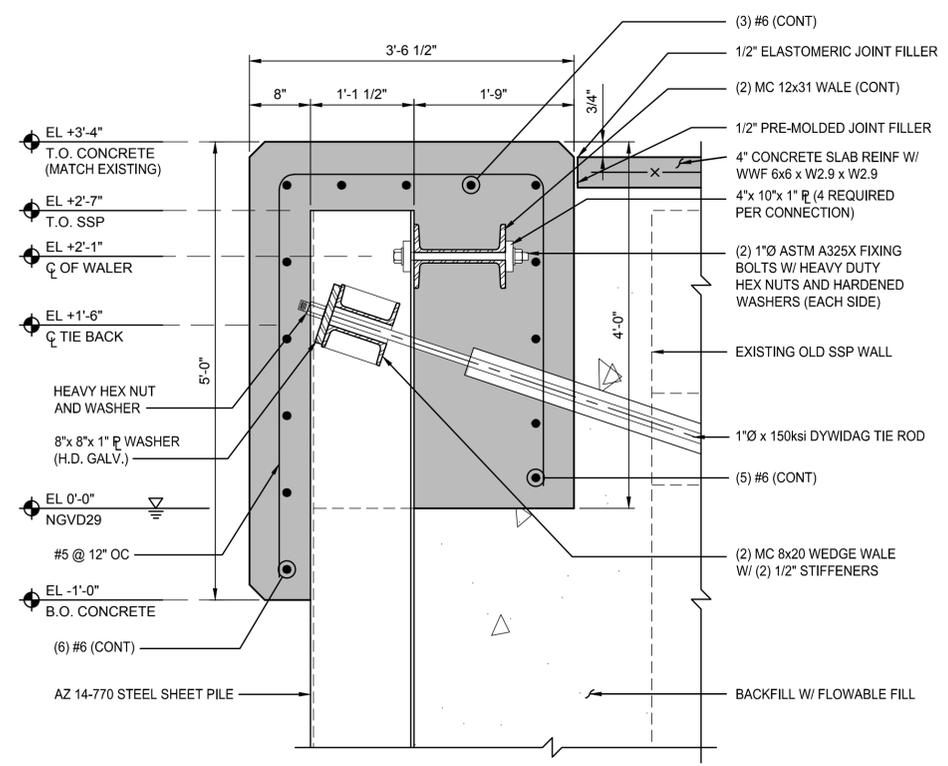
B DETAIL
6" = 1'-0"



C DETAIL
6" = 1'-0"

2 BULKHEAD CAP DETAIL

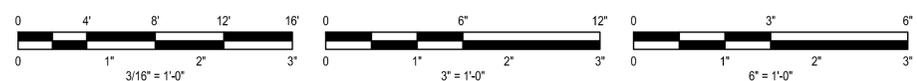
1" = 1'-0"



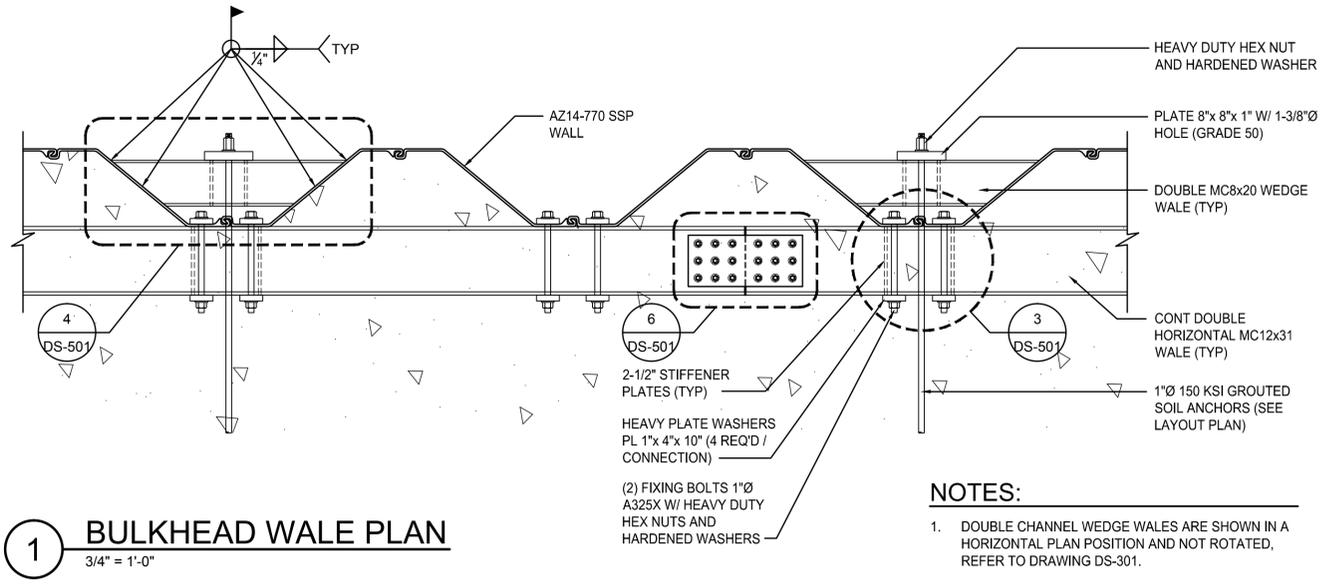
NOTE: TOP OF NEW CONCRETE CAP TO MATCH TOP OF EXISTING CONCRETE CAP TO ALLOW THE RE-USE OF EXISTING WOOD DOCK OVER BOTH OF THEM.

NOTES FOR GROUDED SOIL ANCHORS:

- SEE SPECIFICATIONS FOR SOIL ANCHORS INSTALLATION AND TESTING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING AND PROVIDING GROUDED SOIL ANCHOR SYSTEM ACCORDING TO THE SPECIFICATIONS.
- GROUDED SOIL ANCHOR SYSTEM SHALL BE CAPABLE OF PROVIDING THE FOLLOWING ALLOWABLE HORIZONTAL LOAD CAPABILITIES:
 - A. SOIL ANCHOR ALLOWABLE DESIGN LOAD = 82,000 LB / ANCHOR.
 - B. SOIL ANCHOR MINIMUM LOCK-OFF LOAD = 61,500 LB / ANCHOR.
 - C. EACH SOIL ANCHOR SHALL BE PROOF TESTED TO 133% OF THE ALLOWABLE DESIGN CAPACITY LOAD TO 109,000 LB.
 - D. SOIL ANCHOR DETAILS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING WALL VERTICALLY PLUMB DURING CONSTRUCTION AND BACKFILLING, BY ADJUSTING SOIL ANCHOR NUTS AT WALE.
- TO AVOID EXCESSIVE DEFLECTION OF THE NEW BULKHEAD WALL, PRODUCTION SOIL ANCHORS SHALL NOT BE TESTED UNTIL ADEQUATE FLOWABLE FILL HAS BEEN PLACED AND HARDENED BEHIND THE WALL.
- AFTER GROUDED THE SOIL ANCHOR BOND LENGTH, THE ANCHOR SHALL BE ATTACHED TO THE BULKHEAD WITH ONLY A NOMINAL TENSION TO RESIST WALL DEFLECTION DURING BACKFILLING OPERATIONS.
- CONTRACTOR SHALL TAKE PRECAUTIONS DURING CONSTRUCTION AND BACKFILLING TO MINIMIZE TRANSVERSE LOADING OF THE SOIL ANCHORS.
- SOIL ANCHORS SHALL FOLLOW AS A MINIMUM CLASS I PROTECTION, MULTIPLE CORROSION PROTECTION III PER PTI MANUAL.
- HELICAL PILES CAN BE USED IN LIEU OF SOIL ANCHORS AT CONTRACTOR'S CHOICE. PROVIDE DOCUMENTATION OF PROPOSED HELICAL PILE AND DETAILS OF SYSTEM WHICH SHALL PROVIDE A MINIMUM STRENGTH TO MATCH DESIGN LOADS SHOWN, AND SHALL NEED TO BE PROOF TESTED INDIVIDUALLY.

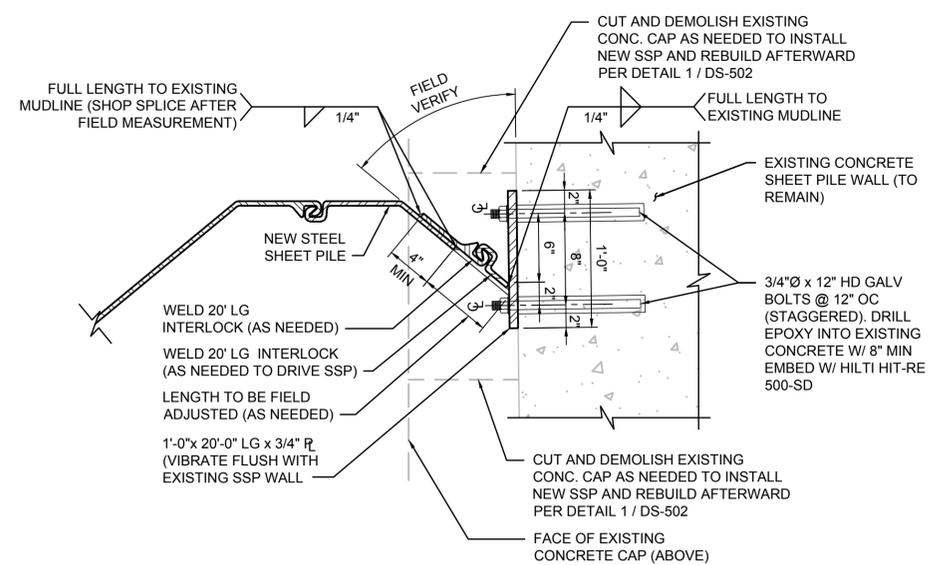


BID SET		J.C. LONG
NO.	DATE	BY
DIGN	DR	APVD
REVISION	CHK	APVD
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DIGN	DR	APVD
REVISION	CHK	APVD
3001 PGA BLVD, SUITE 300 PALM BEACH GARDENS, FL 33410 EB0000072 AAC001982		J.C. LONG A. VANHOOSER A. ARTHAY
REPAIRS AND IMPROVEMENTS AT ZERO DUVAL AND WALLORY SQUARE FOR CITY OF KEY WEST, FLORIDA		J.C. LONG A. VANHOOSER A. ARTHAY
CH2MHILL STRUCTURAL ZERO DUVAL BULKHEAD WALL SECTION		J.C. LONG A. VANHOOSER A. ARTHAY
VERIFY SCALE		
BAR IS ONE INCH ON ORIGINAL DRAWING.		
DATE	JANUARY 2016	
PROJ	439197	
DWG	DS-301	

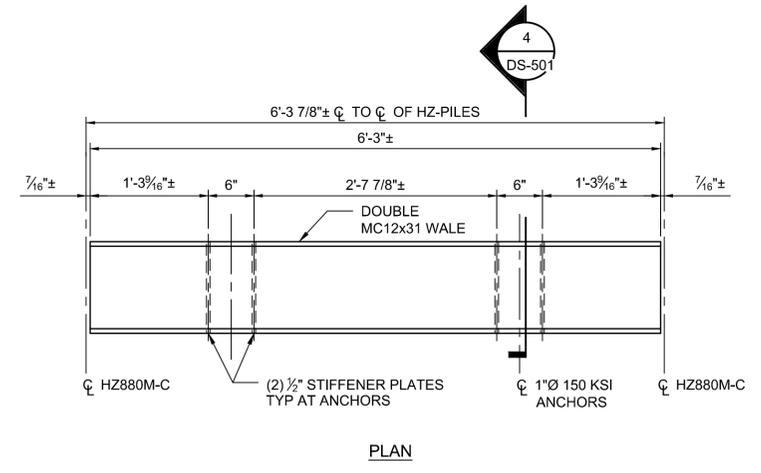


1 BULKHEAD WALE PLAN
3/4" = 1'-0"

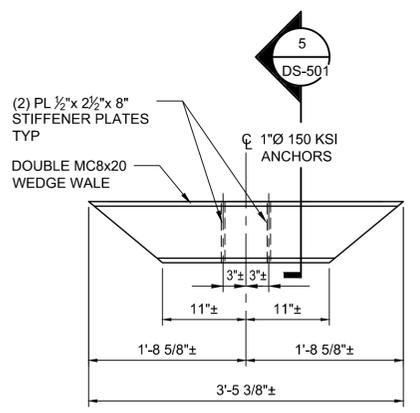
- NOTES:**
- DOUBLE CHANNEL WEDGE WALES ARE SHOWN IN A HORIZONTAL PLAN POSITION AND NOT ROTATED. REFER TO DRAWING DS-301.
 - CAP REINFORCEMENT NOT SHOWN FOR CLARITY.



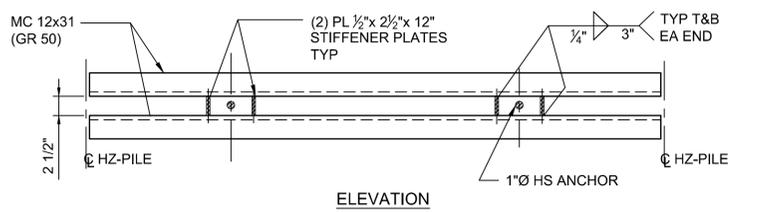
2 DETAIL
1-1/2" = 1'-0"



PLAN

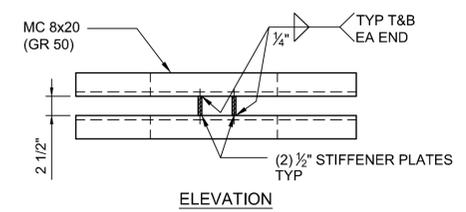


PLAN



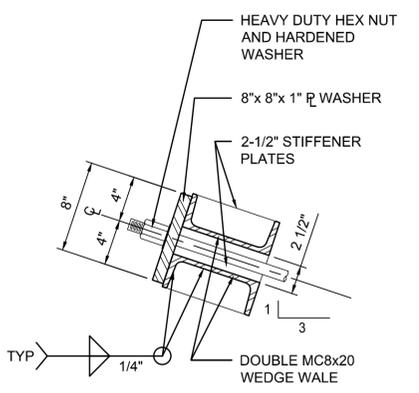
ELEVATION

3 DETAIL
1" = 1'-0"



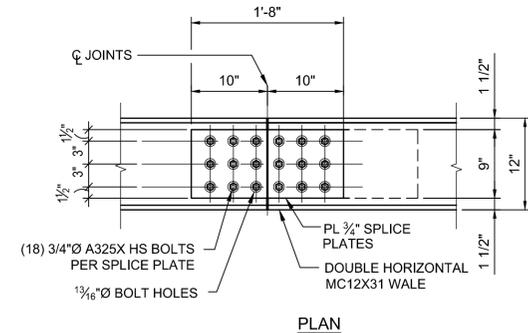
ELEVATION

4 DETAIL
1" = 1'-0"

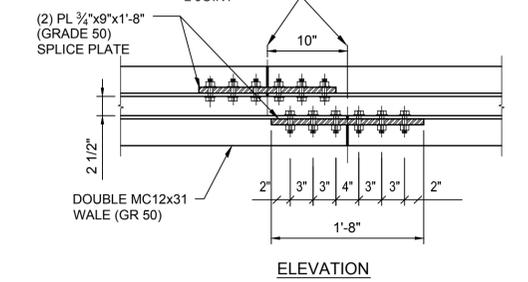


NOTE: FABRICATOR TO VERIFY DIMENSIONS OF WEDGE-WALE TO ENSURE COMPATABILITY WITH INSIDE DIMENSIONS OF AZ14-770 PAIR

5 WEDGE WALE DETAIL
1-1/2" = 1'-0"

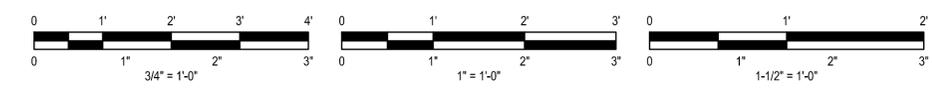


PLAN

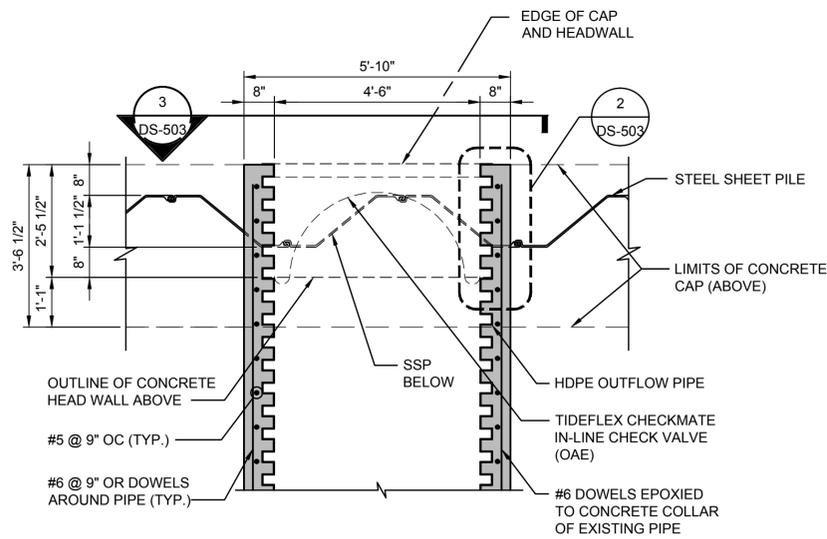


ELEVATION

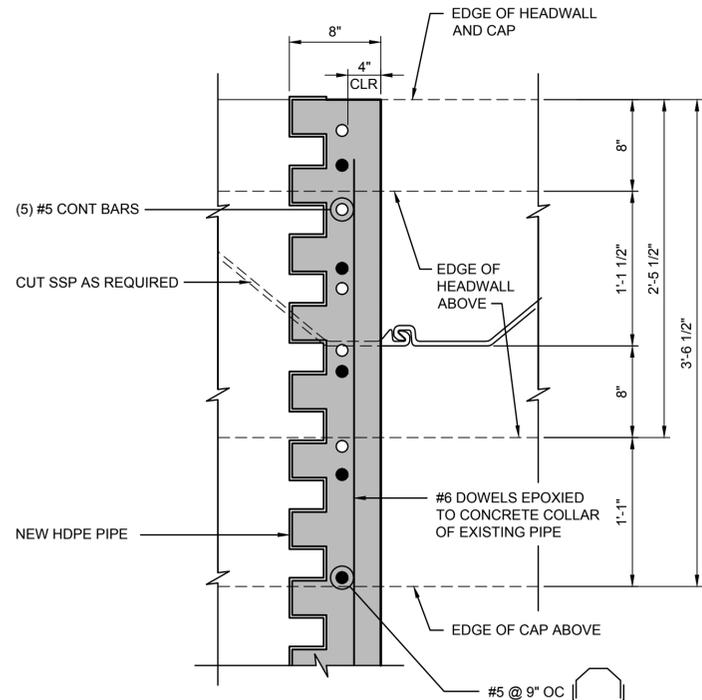
6 WALE SPLICE TYP DETAIL
1" = 1'-0"



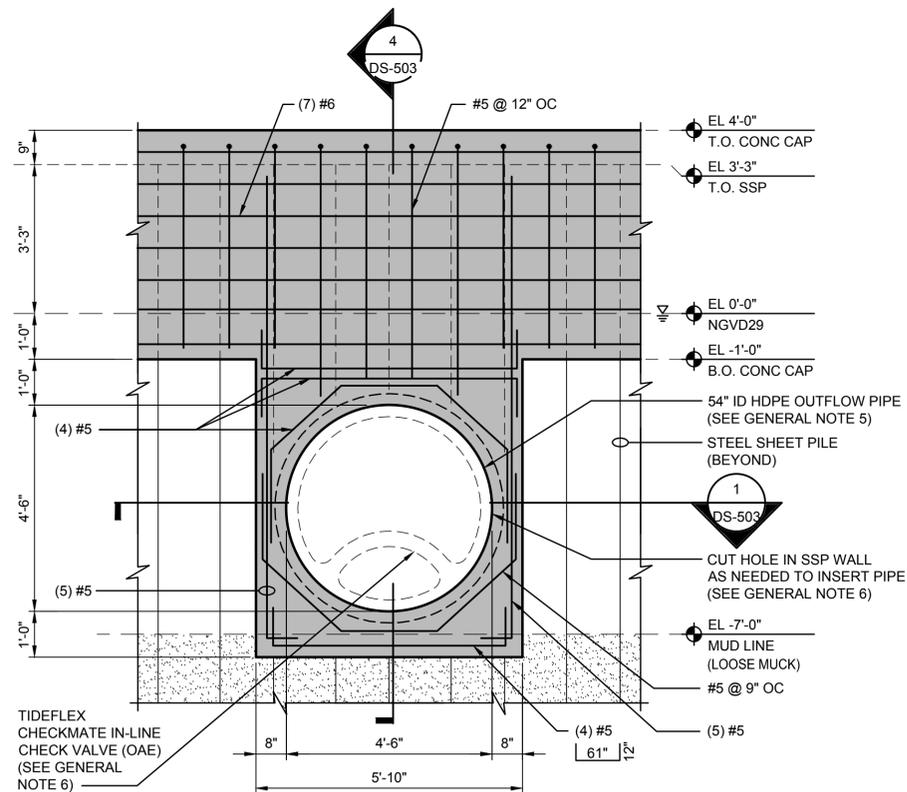
BID SET		BY	J.C. LONG
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3001 PGA BLVD, SUITE 300 PALM BEACH GARDENS, FL 33410 EB0000072 AAC001982	REPAIRS AND IMPROVEMENTS AT ZERO DUVAL AND MALLORY SQUARE FOR CITY OF KEY WEST, FLORIDA	DR	A. VANHOOSER
		REVISION	CHK
NO.	DATE	DGN	A. ARTHAY
CH2MHILL STRUCTURAL ZERO DUVAL BULKHEAD WALL DETAILS		VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.	DATE JANUARY 2016 PROJ 439197 DWG DS-501
FILENAME: D15-DS-501_439197.DWG PLOT DATE: 01/04/2016		PLOT TIME: 4:13 PM	



1 OUTFLOW PIPE PLAN
1/2" = 1'-0"



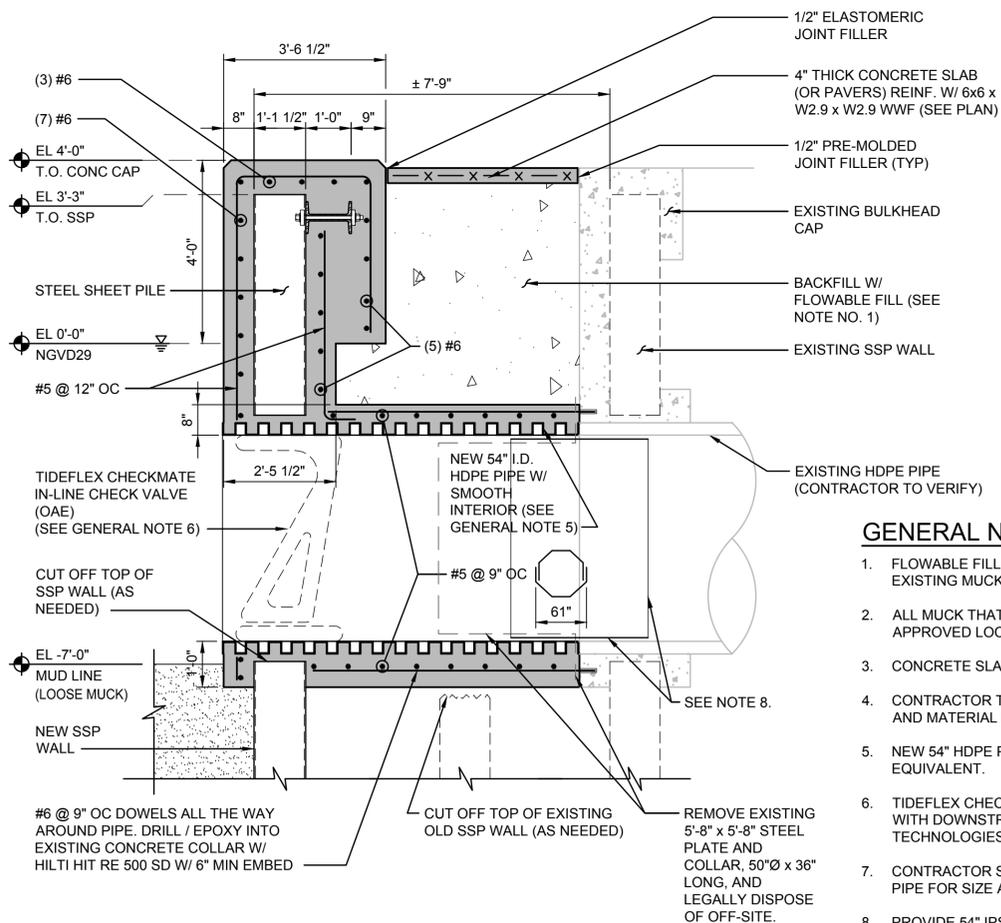
3 DETAIL
1-1/2" = 1'-0"



2 OUTFLOW PIPE ELEVATION
1/2" = 1'-0"

NOTES:

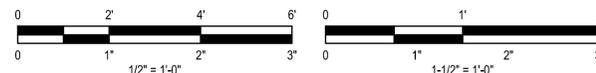
- CONTRACTOR SHALL INSTALL AN ANCHORING SYSTEM TO COUNTERACT BUOYANCY IN CONCRETE PRIOR TO POURING CONCRETE ENCASEMENT AROUND NEW HDPE PIPE.
- CONTRACTOR TO VERIFY PIPE I.D. PRIOR TO ORDERING TIDEFLEX VALVE.



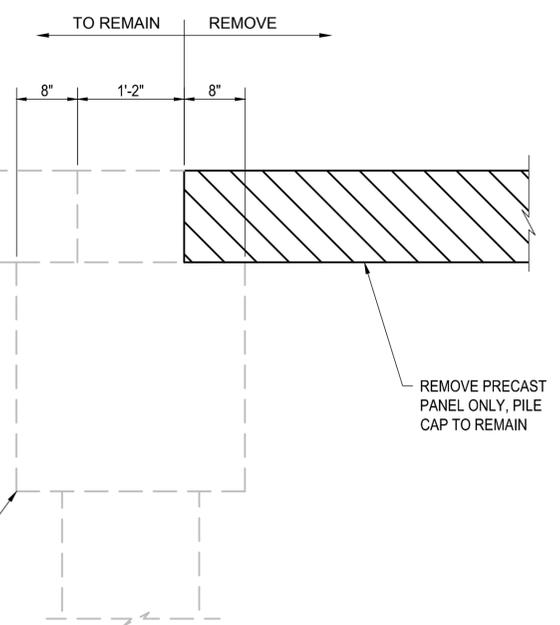
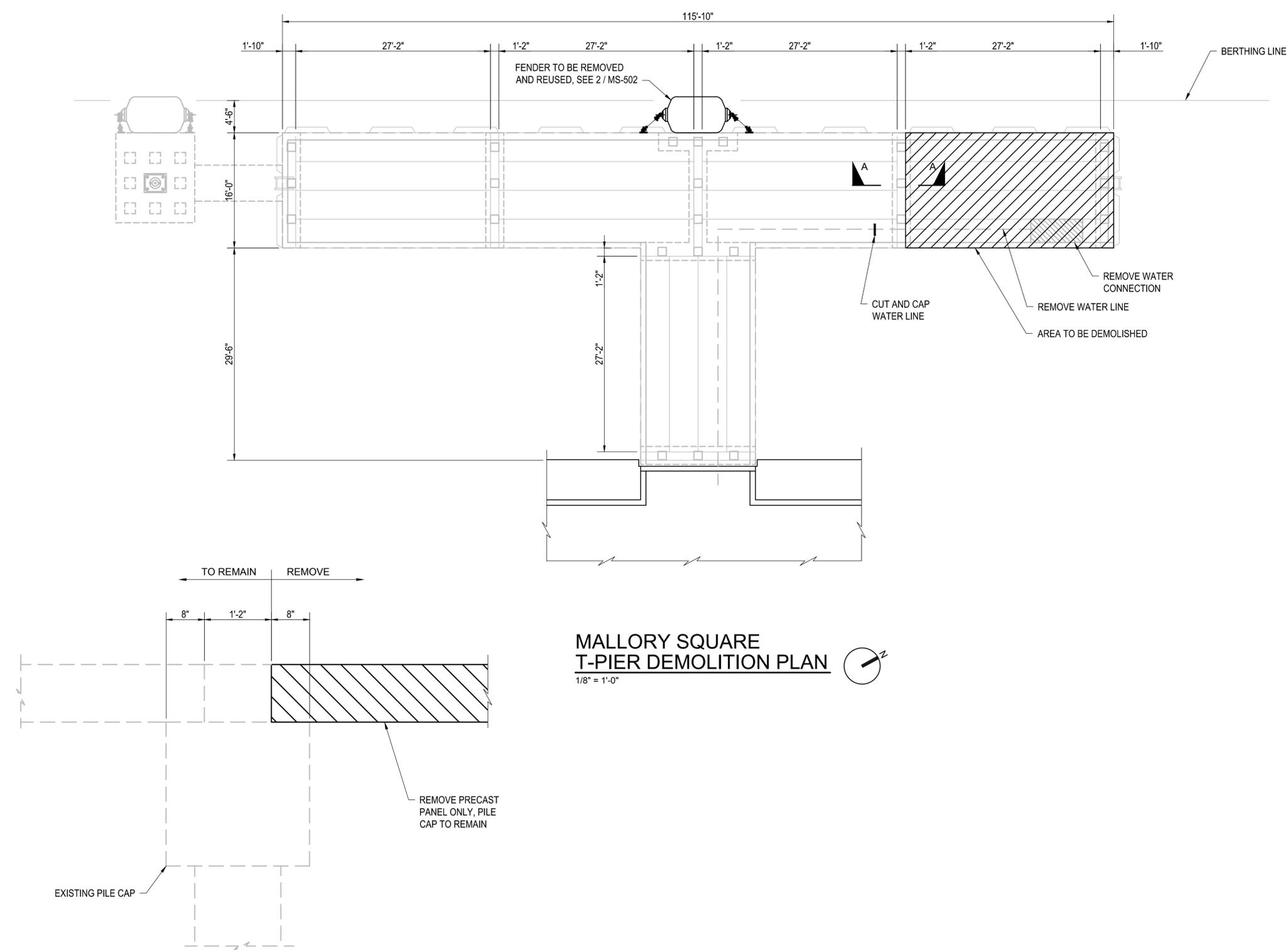
4 OUTFLOW PIPE SECTION
1/2" = 1'-0"

GENERAL NOTES:

- FLOWABLE FILL MUST BE VIBRATED IN AND MIXED WITH EXISTING MUCK DOWN FOR 5 FEET TO ELEVATION -12.0 FEET.
- ALL MUCK THAT COMES TO TOP MUST BE DISPOSED OF AT AN APPROVED LOCATION OFFSITE.
- CONCRETE SLAB SHALL ONLY BEAR ON CLEAN FLOWABLE FILL.
- CONTRACTOR TO VERIFY EXISTING 54" STORM PIPE FOR SIZE AND MATERIAL PRIOR TO ORDERING NEW PIPE.
- NEW 54" HDPE PIPE SHALL BE EAGLE CORR PE (DUAL WALL) OR EQUIVALENT.
- TIDEFLEX CHECKMATE IN-LINE VALVE SHALL BE 54" MOUNTED WITH DOWNSTREAM CLAMP, MANUFACTURED BY TIDEFLEX TECHNOLOGIES, CARNEGIE, PA (412-279-0044).
- CONTRACTOR SHALL COORDINATE CHECK VALVE WITH HDPE PIPE FOR SIZE AND FIT UP.
- PROVIDE 54" IPS HDPE 32.5DR SPLICE SLEEVE. INSERT 18" INTO EXISTING PIPE AND 18" INTO NEW TO BRIDGE CONNECTION BETWEEN EXISTING AND NEW OUTFALL PIPES.



BID SET		NO.	DATE	DR	REVISION	BY	APVD
		D5GN		A. ARTHAY	CHK	J.C. LONG	J.C. LONG
CH2MHILL STRUCTURAL ZERO DUVAL OUTFLOW PIPE DETAILS		3001 PGA BLVD, SUITE 300 PALM BEACH GARDENS, FL 33410 EB0000072 AAC001992		REPAIRS AND IMPROVEMENTS AT ZERO DUVAL AND WALLORY SQUARE FOR CITY OF KEY WEST, FLORIDA		A. VANHOOSER J.C. LONG J.C. LONG	
		VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.		DATE JANUARY 2016 PROJ 439197 DWG DS-503		REUSE OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL. © CH2M HILL 2012. ALL RIGHTS RESERVED.	



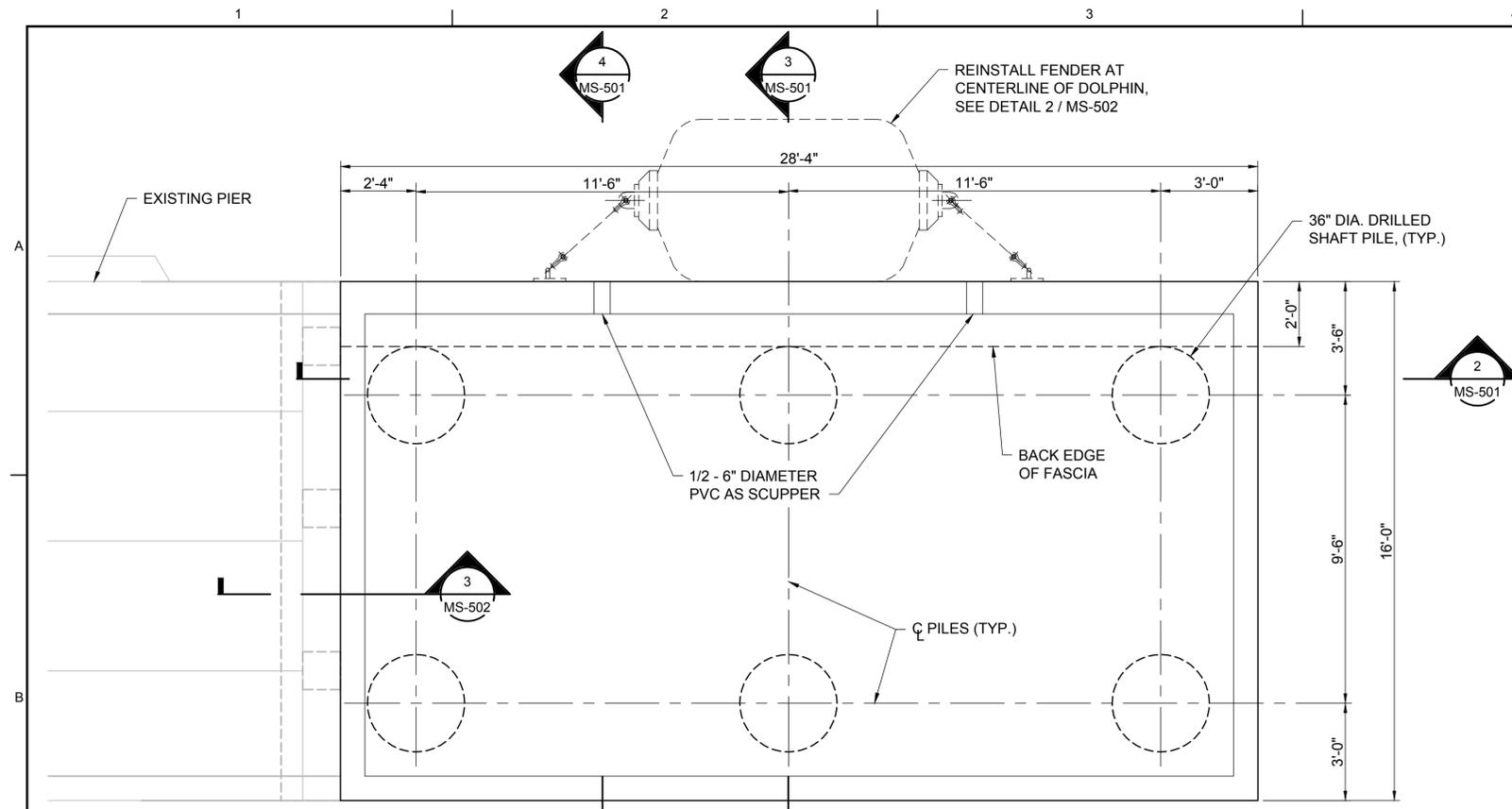
**MALLERY SQUARE
T-PIER DEMOLITION PLAN**
1/8" = 1'-0"

NOTES:

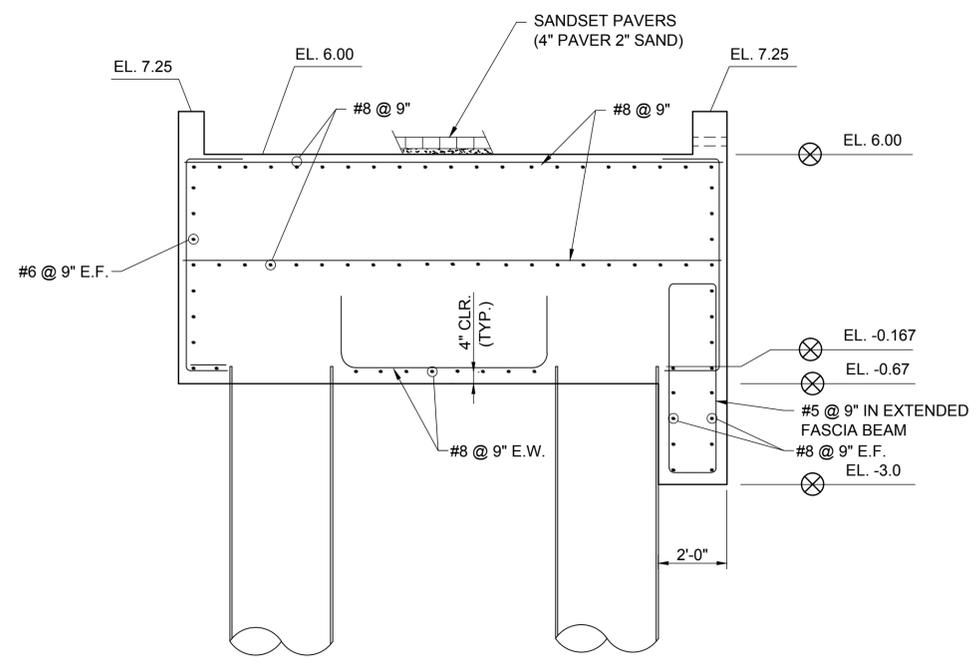
1. CUT AND CAP WATERLINE.
2. REMOVE AND STORE FLOATING FENDER, ANCHOR CHAINS AND OTHER CONNECTING HARDWARE FOR REUSE.
3. REMOVE END SPAN OF DOCK AS SHOWN. REMOVE PILES COMPLETELY BY PULLING.
4. ANY CLEATS, HANDRAILS, PLUMBING FITTINGS, AND LADDERS SHALL BE SALVAGED AND RETURNED TO THE CITY.
5. REMOVE AND STORE PAVERS IN PIER SPAN BEING DEMOLISHED FOR REINSTALLATION ON DOLPHIN.

BID SET	
	BY APVD
	APVD
	REVISION
	CHK
	DR
	J. PRUITT
	NO. DATE
	DSGN
3001 PGA BLVD, SUITE 300 PALM BEACH GARDENS, FL 33410 EB0000072 AAC001982	REPAIRS AND IMPROVEMENTS AT ZERO DUVAL AND MALLERY SQUARE FOR CITY OF KEY WEST, FLORIDA
CH2MHILL STRUCTURAL MALLERY SQUARE DEMOLITION PLAN	
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" 2" 3"	
DATE JANUARY 2016 PROJ 439197 DWG MS-101	

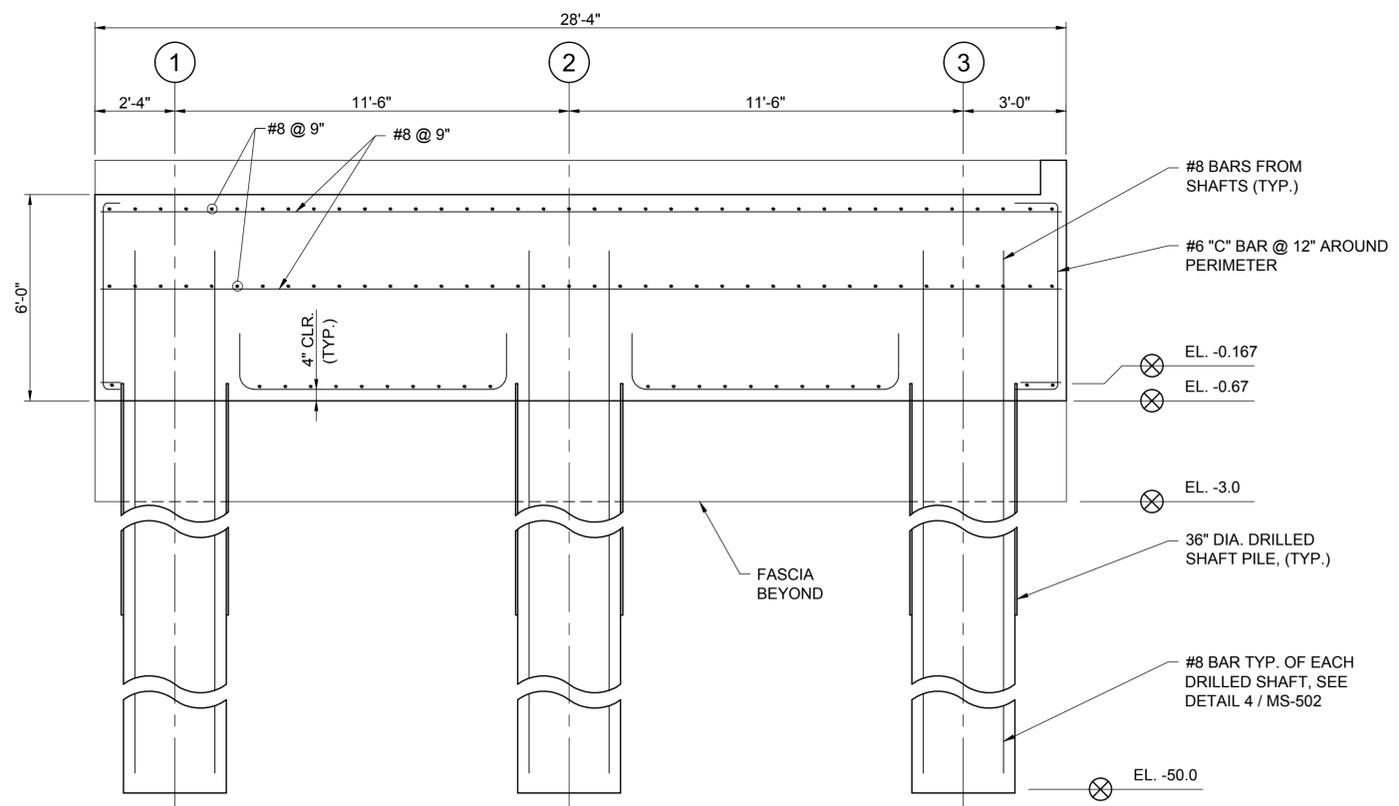
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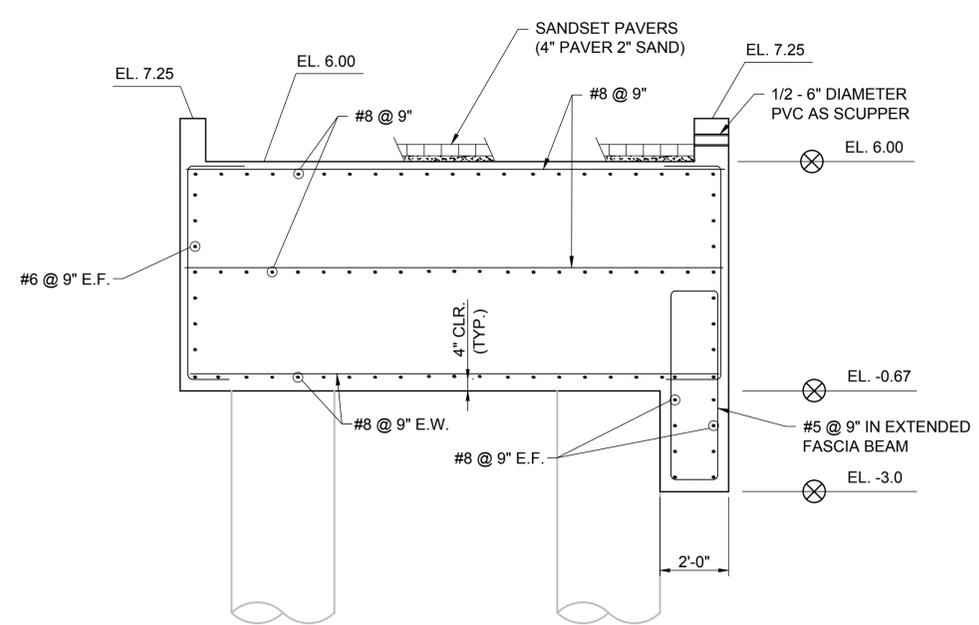
1 DOLPHIN PLAN
3/8" = 1'-0"



3 DOLPHIN SECTION
3/8" = 1'-0"



2 DOLPHIN SECTION
3/8" = 1'-0"

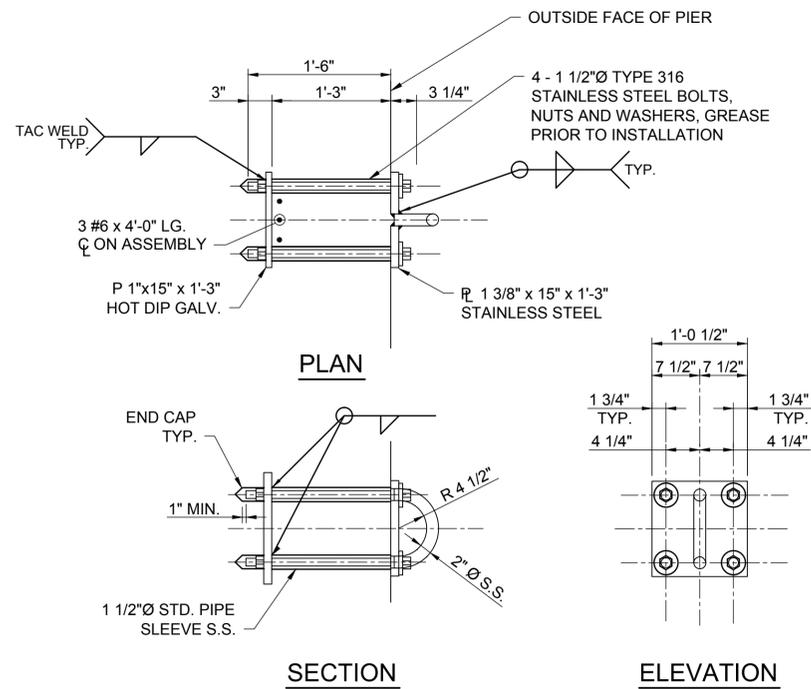


4 DOLPHIN SECTION
3/8" = 1'-0"

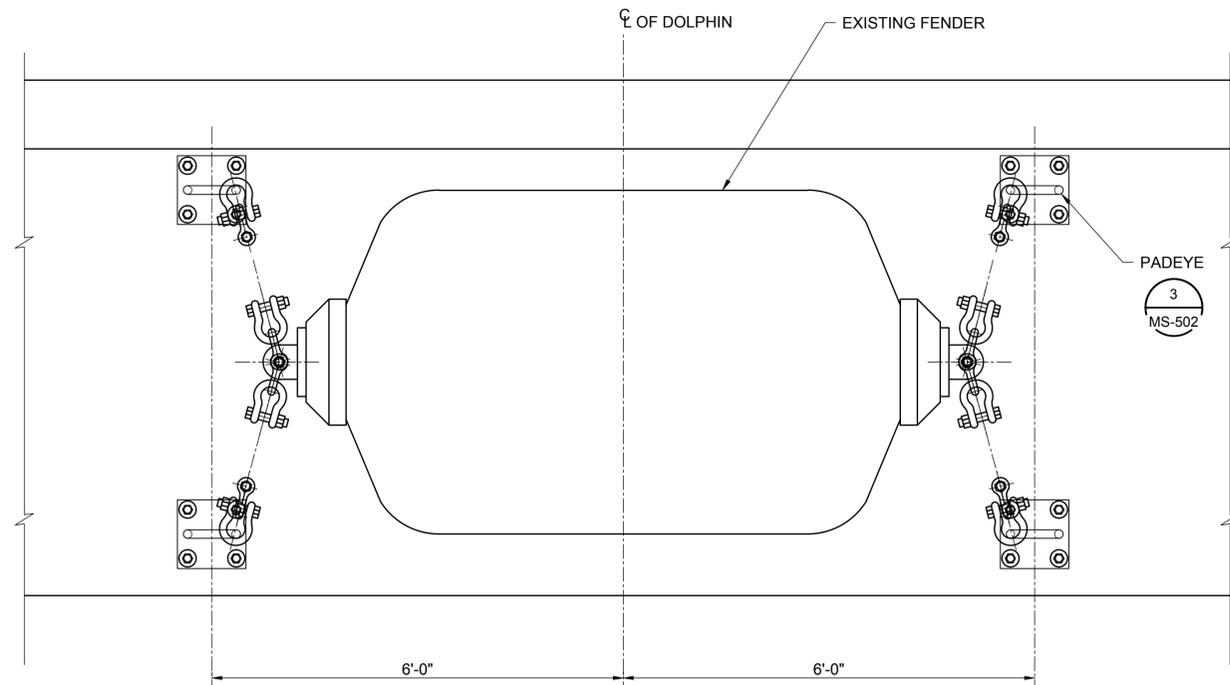
CH2MHILL		3001 PGA BLVD. SUITE 300 PALM BEACH GARDENS, FL 33410 EB0000072 AAC001982		REPAIRS AND IMPROVEMENTS AT ZERO DUVAL AND WALLORY SQUARE FOR CITY OF KEY WEST, FLORIDA	
		STRUCTURAL MALLORY SQUARE DOLPHIN DETAILS		J. PRUITT CHK DR	
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.		DATE	JANUARY 2016	NO.	DATE
DWG		PROJ	439197	NO.	DATE
MS-501				NO.	DATE

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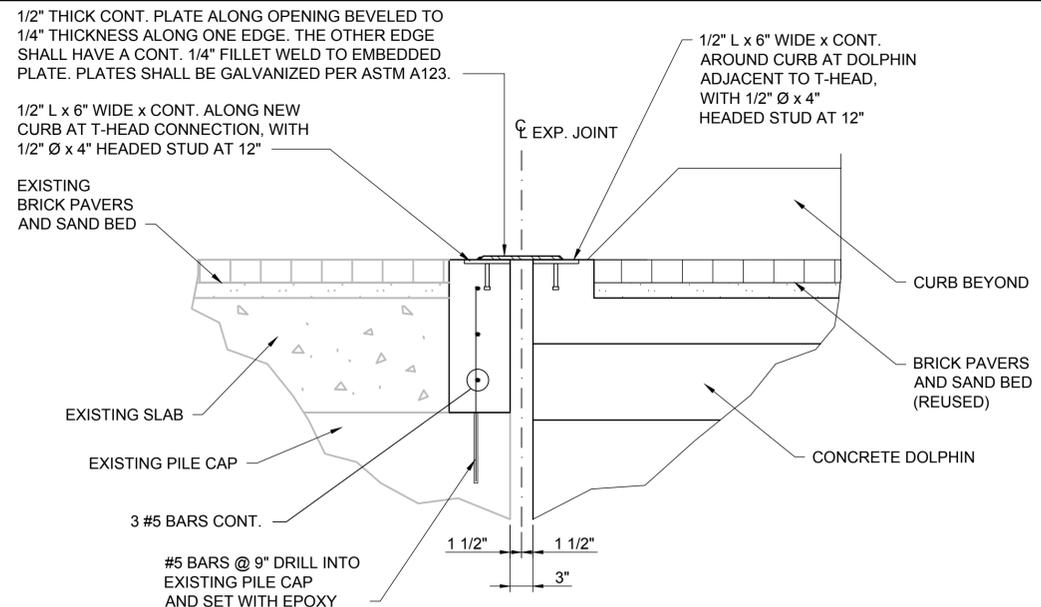
BID SET - JANUARY 2016
 FILENAME: D55-MS-501_439197.DWG PLOT DATE: 01/04/2016 PLOT TIME: 4:26 PM



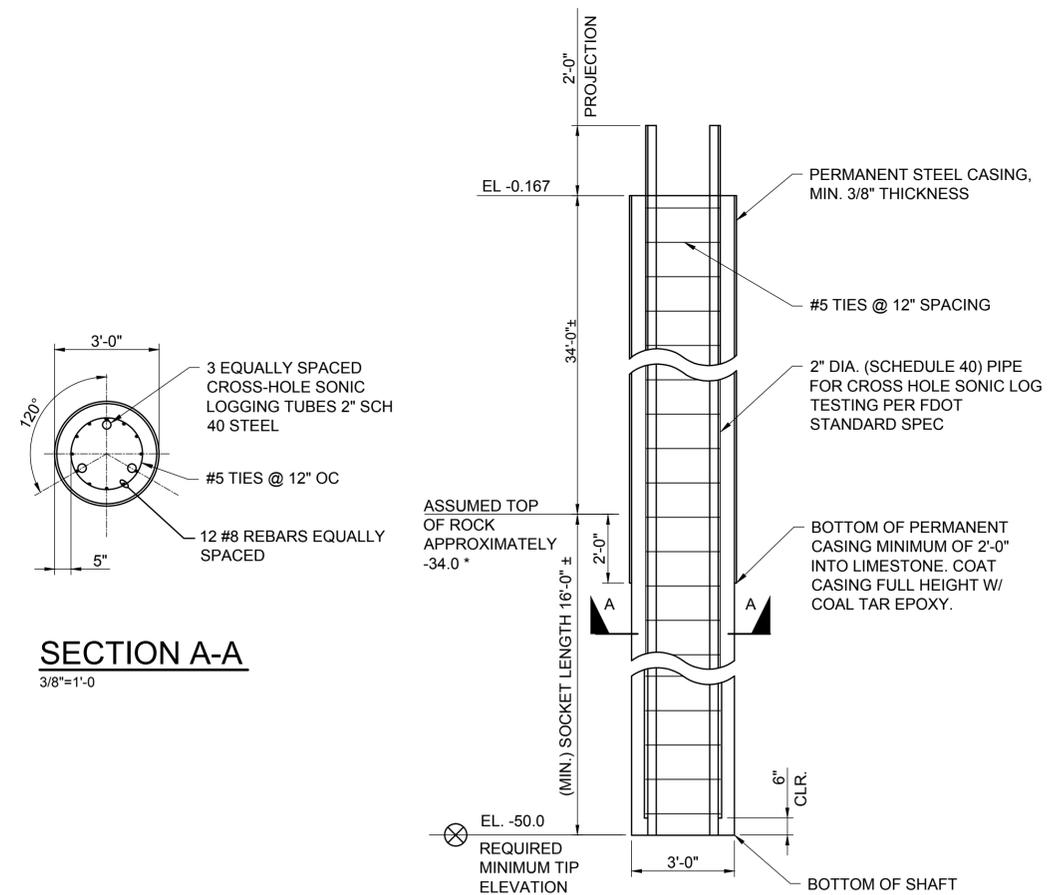
1 PADEYE DETAILS
1" = 1'-0"



2 FENDER DETAIL
3/4" = 1'-0"



3 EXPANSION JOINT DETAIL
1" = 1'-0"



4 DRILLED SHAFT DETAILS
3/8" = 1'-0"

* CONTRACTOR SHALL CONFIRM TOP OF ROCK ELEVATION. SHOULD TOP OF ROCK ELEVATION DEVIATE FROM WHAT IS SHOWN IN THIS DRAWING, THE CONTRACOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.

BID SET		BY	APVD
		DR	CHK
CH2MHILL STRUCTURAL MALLORY SQUARE DETAILS		NO.	DATE
		DGNS	REVISION
3001 PGA BLVD. SUITE 300 PALM BEACH GARDENS, FL 33410 EB0000072 AAC001982		J. PRUITT REPAIRS AND IMPROVEMENTS AT ZERO DUVAL AND MALLORY SQUARE FOR CITY OF KEY WEST, FLORIDA	
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.		DATE JANUARY 2016 PROJ 439197 DWG MS-502	