00STRUCTURAL NOTES
- ELECTRONIC VERSIONS OF STRUCTURAL DRAWINGS ARE THE SOLE, COPYRIGHTED PROPERTY OF MUENGINEERS, INC.
- ELECTRONIC VERSIONS OF DRAWINGS ARE NOT TO BE USED OR TRANSFERRED WITHOUT THE EXPRESS, WRITTEN PERMISSION OF MUENGINEERS, INC.

010000-GENERAL:
1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND CIVIL ENGINEERING AND SITE DRAWINGS AND CURRENT PROPERTY SURVEYS.
2. CONSULT THESE DRAWINGS FOR DEPRESSIONS, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
3. DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
4. DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONAL INFORMATION.
5. AT ALL TIMES THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS OF THE JOBSITE INCLUDING SAFETY OF PERSONS AND PROPERTY. MUENGINEERS' PRESENCE OR REVIEW OF WORK DOES NOT INCLUDE THE ADEQUACY OF THE CONTRACTORS' MEANS OR METHODS OF CONSTRUCTION.
6. SHORING, BRACING AND PROTECTION OF EXISTING AND ADJACENT STRUCTURES DURING CONSTRUCTION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. PROTECT AND MAINTAIN THE INTEGRITY OF ADJACENT STREETS, BUILDINGS AND ALL OTHER STRUCTURES.
7. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE STRUCTURE IS COMPLETE.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO INSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS.
9. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR ANY MEANS AND METHODS OF CONSTRUCTION OR FOR ANY RELATED SAFETY PRECAUTIONS OR PROGRAMS.

010001-DESIGN LOADS:
1. THE STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2017 FLORIDA BUILDING CODE AND APPLICABLE REFERENCE STANDARDS.

020000-EXISTING STRUCTURE:
1. ALL EXISTING DIMENSIONS AND LOCATIONS OF EXISTING STRUCTURES INDICATED ON THE DRAWINGS SHALL BE VERIFIED BY FIELD MEASUREMENTS PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER AND ARCHITECT.
2. DRAWINGS HAVE BEEN PREPARED BASED ON AVAILABLE KNOWLEDGE OF EXISTING CONDITIONS. IF, DURING DEMOLITION, EXCAVATION OR CONSTRUCTION, ACTUAL CONDITIONS ARE DISCOVERED TO DIFFER FROM THOSE INDICATED ON DRAWINGS, MUENGINEERS SHALL BE NOTIFIED.

DEMOLITION
1. ALL EXISTING STRUCTURAL COMPONENTS SHALL BE X-RAYED AND ALL EXISTING REINFORCING AND POST-TENSIONING SHALL BE LOCATED BEFORE DRILLING OR CUTTING INTO THEM.
2. NOTIFY MUENGINEERS OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND DRAWINGS BEFORE PROCEEDING WITH SELECTIVE DEMOLITION.
3. VERIFY ALL DIMENSIONS AFFECTED BY EXISTING CONSTRUCTION PRIOR TO DEMOLITION.
4. INFORMATION ON THESE PLANS REGARDING THE EXISTING STRUCTURE WAS TAKEN FROM AVAILABLE RECORD CONSTRUCTION DOCUMENTS. ACTUAL FIELD AS-BUILD CONDITIONS MAY VARY FROM WHAT IS INDICATED ON THE PLANS. ALL DIMENSIONS, ELEVATIONS AND ANY OTHER CONDITIONS OF THE EXISTING STRUCTURE SHALL BE FIELD VERIFIED PRIOR TO DEMOLITION, FABRICATION AND INSTALLATION OF NEW BUILDING COMPONENTS.
5. VERIFY WITH THE EOR PRIOR TO REMOVING OR MODIFYING ANY STRUCTURAL MEMBERS THAT HAVE NOT BEEN INCLUDED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS.
6. SURVEY EXISTING CONDITIONS AND CORRELATE WITH REQUIREMENTS INDICATED TO DETERMINE EXTENT OF SELECTIVE DEMOLITION REQUIRED.
7. WHEN UNANTICIPATED STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, INVESTIGATE AND MEASURE THE NATURE AND EXTENT OF THE CONFLICT(S) PROMPTLY AND SUBMIT A WRITTEN REPORT TO MUENGINEERS.
8. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE REMOVAL OF ANY ELEMENT WILL NOT RESULT IN A STRUCTURAL DEFICIENCY OR UNPLANNED COLLAPSE OF ANY PORTION OF THE STRUCTURE OR ADJACENT STRUCTURES DURING SELECTIVE DEMOLITION ACTIVITIES.
9. PERFORM SURVEYS AS THE WORK PROGRESSES TO DETECT HAZARDS RESULTING FROM SELECTIVE DEMOLITION ACTIVITIES.
10. PROVIDE AND MAINTAIN SHORING, BRACING, AND STRUCTURAL SUPPORTS AS REQUIRED TO PRESERVE STABILITY AND PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF CONSTRUCTION AND FINISHES TO REMAIN, AND TO PREVENT UNEXPECTED OR UNCONTROLLED MOVEMENT OR COLLAPSE OF CONSTRUCTION BEING DEMOLISHED.
11. STRENGTHEN OR ADD NEW SUPPORTS WHEN REQUIRED DURING PROGRESS OF SELECTIVE DEMOLITION.
12. DEMOLISH AND REMOVE EXISTING CONSTRUCTION ONLY TO THE EXTENT REQUIRED BY NEW CONSTRUCTION AND AS INDICATED. USE METHODS REQUIRED TO COMPLETE THE WORK WITHIN LIMITATIONS OF GOVERNING REGULATIONS.

310000-FOUNDATIONS:
1. NO BACKFILL SHALL BE PLACED AGAINST NEW SEAWALLS WALLS UNTIL ALL TIE-BACK ANCHORS AND THE COMPLETE SEAWALL CAPS ARE IN PLACE.
2. SLABS ON GROUND SHALL BE PLACED ON SELECT GRANULAR FILL COMPACTED TO 95 PERCENT MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D1557)
3. ALL SITE PREPARATION, EXCAVATION WORK AND BACK FILL WORK IS TO BE PERFORMED IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND THE SUBSURFACE INVESTIGATION.
4. SEE THE FOLLOWING REPORT FOR COMPLETE GEOTECHNICAL RECOMMENDATIONS AND INSTALLATION PROCEDURES.
   - o REPORT NO.: 711-19-088
   - o PREPARED BY: TSF GEOTECHNICAL MATERIAL TESTING INSPECTOIN SERVICES
   - o TITLED: GEOTECHNICAL ENGINEERING SERVICE REPORT SEAWALL REBUILDING FOR BOAT RAMP
   - o DATED: 04/11/2019
   - • THIS REPORT SHALL BE CONSIDERED PART OF THE CONTRACT DOCUMENTS

315000-STEEL SHEET PILING:
1. VINYL SHEET PILING SHALL CONSIST OF APPROVED CONTINUOUS, HOLLOW PROFILE INTERLOCKING PANELS SUCH AS SERIES 800 BY TRULINE OR MUE APPROVED EQUAL.
2. A SINGLE PANEL SHALL HAVE A SECTION MODULUS OF NOT LESS THAN 60 in 3 PER LINEAL FOOT OF WALL.
3. CONCRETE CAP AND DEADMAN:
   - o PROVIDE KEYED CONTROL JOINTS AT A MAXIMUM SPACING OF 15 FEET ON CENTER (MIDWAY BETWEEN ANCHOR RODS.)
   - o PROVIDE 1 INCH EXPANSION JOINTS AT A MAXIMUM SPACING OF 30 FEET ON CENTER.
   - o STOP REINFORCING AND WHALERS 3 INCHES FROM FACE OF EACH EXPANSION JOINT.
   - o CAP JOINTS AND PILING & CAP INTERFACES SHALL BE SEALED WITH AN APPROVED SEALANT.

316219-ROUND TIMBER PILES:
1. PILES SHALL COMPLY WITH ASTM D25 AND BE TREATED (AWPB-STD-MLP P5-72) SOUTHERN PINE WITH A MINIMUM BUTT DIAMETER OF 10 INCHES.
2. PILES SHALL BE DRIVEN OR JETTED TO A MINIMUM OF 15 FEET INTO BEARING STRATA.
3. LOCATION OF PILES:
   - o AN AS-BUILT SURVEY OF PILE LOCATIONS SHALL BE PERFORMED BY A FLORIDA REGISTERED LAND SURVEYOR.
   - o PILES SHALL BE LOCATED ON THE AS-BUILT DRAWINGS HORIZONTALLY AND VERTICALLY FROM THE DESIGN LOCATION.
   - o SUBMIT THE AS-BUILT DRAWINGS TO THE STRUCTURAL ENGINEER FOR APPROVAL.
   - o CONTRACTOR IS RESPONSIBLE FOR ENGINEERING COSTS ASSOCIATED WITH REDESIGNS CAUSED BY IMPROPER PILE LOCATIONS.

030001-CONCRETE
1. REINFORCING STEEL:
   - o SHALL BE ASTM A615 GRADE 60 DEFORMED BARS, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAM AND PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS.
   - o SECURE APPROVAL OF SHOP DRAWINGS PRIOR TO COMMENCING FABRICATION.
2. WELDED WIRE FABRIC:
   - o TO CONFORM TO ASTM A-185, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS. MINIMUM LAP SHALL BE PLUS TWO INCHES. USE OF FLAT MANUFACTURED SHEETS IS RECOMMENDED.
3. CONCRETE:
   - o SHALL BE PER AN APPROVED MIX DESIGN PROPORTIONED TO ACHIEVE 6000PSI STRENGTH AT 28 DAYS WITH A PLASTIC AND WORKABLE MIX.
   - o WATER/CEMENT RATIO OF ANY CONCRETE SHALL NOT EXCEED 0.40 BY WEIGHT.
   - o CONCRETE MIXES FOR ALL EXPOSED CONCRETE COMPONENTS SHALL HAVE BARRIER ONE POROSITY INHIBITING ADMIXTURE OR A BY THE ENGINEER OF RECORD APPROVED ALTERNATE ADMIXTURE INCLUDED IN THE MIX DESIGN.
   - o CONCRETE SHALL BE PLACED AND CURED ACCORDING TO ACI STANDARDS AND SPECIFICATIONS.
   - o SUBMIT PROPOSED MIX DESIGN WITH RECENT FIELD CYLINDER OR LAB TESTS FOR REVIEW PRIOR TO USE.
   - o MIX SHALL MEET THE REQUIREMENTS OF ASTM C33 FOR COARSE AGGREGATE.
   - o CONCRETE SHALL COMPLY WITH THE REQUIREMENTS OF ASTM STANDARD C94 FOR MEASURING, MIXING, TRANSPORTING, ETC.
   - o CONCRETE TICKETS SHALL BE TIME STAMPED WHEN CONCRETE IS BATCHED.
   - o THE MAXIMUM TIME ALLOWED FROM THE TIME THE MIXING WATER IS ADDED UNTIL IT IS DEPOSITED IN ITS FINAL POSITION SHALL NOT EXCEED ONE AND ONE HALF (1-1/2) HOURS.
   - o IF FOR ANY REASON THERE IS A LONGER DELAY THAN THAT STATED ABOVE, THE CONCRETE SHALL BE DISCARDED.
   - o IT SHALL BE THE RESPONSIBILITY OF THE TESTING LAB TO NOTIFY THE OWNER'S REPRESENTATIVE AND THE CONTRACTOR OF ANY NONCOMPLIANCE WITH THE ABOVE.
   - o CONCRETE DESIGN MIX SUBMITTALS SHALL INCLUDE TESTED, STATISTICAL BACK-UP DATA AS PER CHAPTER 5 OF ACI 318.
4. CORROSION RESISTANT REINFORCING STEEL:
   - o ALL REINFORCING BARS SHALL BE GALVANIZED.
5. POST-INSTALLED ANCHORS (CONT.):
   - o POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS.
   - o CONTRACTOR SHALL OBTAIN APPROVAL FROM ENGINEER OF RECORD PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLACE ANCHORS.
   - o CARE SHALL BE GIVEN TO AVOID CONFLICTS WITH EXISTING REBAR AND POST TENSIONING STRANDS WHEN DRILLING HOLES. HOLES SHALL BE DRILLED AND CLEANED PER THE MANUFACTURER'S INSTRUCTIONS.
   - o UNLESS SPECIFIED OTHERWISE, ANCHORS SHALL BE EMBEDDED IN THE APPROPRIATE SUBSTRATE WITH A MINIMUM EMBEDMENT OF 8 TIMES THE NOMINAL ANCHOR DIAMETER OR THE EMBEDMENT REQUIRED TO SUPPORT THE INTENDED LOAD.
   - o ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AT NOT LESS THAN MINIMUM EDGE DISTANCE AND/OR SPACINGS INDICATED IN THE MANUFACTURER'S LITERATURE.
   - o SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE LISTED BELOW, SHALL BE SUBMITTED TO THE ENGINEER WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER SHOWING THAT THE SUBSTITUTED PRODUCT WILL ACHIEVE AN EQUIVALENT CAPACITY USING THE APPROPRIATE DESIGN PROCEDURE REQUIRED BY THE BUILDING CODE.
   - o ACCEPTABLE PRODUCTS ARE:
     - EXPANSION ANCHORS FOR NON-CRACKED CONCRETE ONLY:
       - WEDGE-ALL (WA), BY SIMPSON STRONG-TIE
       - KWIK BOLT 3, BY HILTI
     - CRACKED CONCRETE MECHANICAL ANCHORS:
       - STRONG-BOLT (STB), BY SIMPSON STRONG-TIE
       - KWIK BOLT (TZ), BY HILTI
     - SCREW ANCHORS:
       - TITEN HD (THD), BY SIMPSON STRONG-TIE
       - HUS-H, BY HILTI
     - ADHESIVE ANCHORS FOR ANCHORING INTO SOLID BASE MATERIAL
       - ACRYLIC-TIE (AT)
       - SET EPOXY-TIE (SET) WITH RETROFIT BOLTS (RFB), BY SIMPSON STRONG-TIE
       - HIT RE 500, BY HILTI
     - ADHESIVE ANCHORS FOR ANCHORING INTO HOLLOW BASE MATERIAL
       - CONTACT ENGINEER OF RECORD

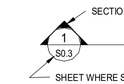
2

ABBREVIATIONS:

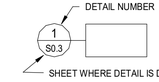
THE FOLLOWING ABBREVIATIONS MAY BE USED IN THE DRAWINGS.

AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ASPHALT	ASPHALT PARKING LOT; SEE CIVIL DWGS. FOR ADDITIONAL INFORMATION
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
BB-1	12"X12" RC BEAM W/ 2#6 TOP AND 2#6 BOTTOM AND #4 DOWELS WITH STANDARD HOOKS DRILLED AND EPOXIED 4" INTO THE EXISTING TO REMAIN WALL PANELS AT MAXIMUM 12" C/C
CIP	CAST-IN-PLACE
CJ	CONSTRUCTION/CONTROL JOINT
CL	CENTERLINE
CONC	CONCRETE
CONT	CONTINUOUS
COORD	COORDINATE
CTS-1	NEW 4" CONCRETE TOPPING SLAB WITH MIN. 5 lbs PER CUBIC YARD NON METALLIC, SYNTHETIC FIBER REINFORCING
D&E	DRILL AND EPOXY
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DM-1	12"X18"X60" REINFORCED CONCRETE DEAD MAN WITH 4#5 HORIZONTAL AND 12#5 VERTICAL REINFORCING
DM-2	12"X20"X60" REINFORCED CONCRETE DEAD MAN WITH 4#5 HORIZONTAL AND 12#5 VERTICAL REINFORCING
DWG	DRAWING
EA	EACH
EF	EACH FACE
EL	ELEVATION
ENGR	ENGINEER
EQ	EQUAL
ETBD	EXISTING TO BE DEMOLISHED
ETBD ASPHALT WALKWAY	EXISTING TO BE DEMOLISHED ASPHALT WALK
ETBD RCB-1	EXISTING TO BE DEMOLISHED CONCRETE BEAM
ETBD RC CAP	EXISTING TO BE DEMOLISHED REINFORCED CONCRETE CAP
ETBD SPWP	EXISTING TO BE MODIFIED / PARTIALLY DEMOLISHED
CORRUGATED	METAL SHEET PILE SECTIONS
ETBD WP	EXSITING TO BE DEMOLISHED WOOD PILE
ETBM CMSP	EXISTING TO BE MODIFIED / PARTIALLY DEMOLISHED CORRUGATED METAL SHEET PILE SECTIONS
ETR	EXISTING TO REMAIN
ETR RC RAMP SLAB	EXISTING TO REMAIN CONCRETE BOAT RAMP PANELS
ETR RC WALL PANEL	EXISTING TO REMAIN REINFORCED CONCRETE WALL PANEL;
ETBR	EXISTING TO BE RESTORED
ETBM	EXISTING TO BE MODIFIED
EXIST	EXISTING
EXP	EXPANSION
FBC	FLORIDA BUILDING CODE
f'c=	28 DAY CONCRETE STRENGTH=
FV	FIELD VERIFY
Fy=	YIELD STRENGTH=
GALV	GALVANIZE(D)
GC	GENERAL CONTRACTOR
GEN	GENERAL
IN	INCH
INFO	INFORMATION
K	KIPS (1000 LBS)
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
LBS	POUNDS
NA	NOT APPLICABLE
NEW CONCRETE WALK	NEW 4" SLAB ON GRADE WITH ONE LAYER OF 9x6 - W1.4xW1.4 WELDED WIRE FABRIC LOCATED AT MID SLAB DEPTH AND EXPANSION JOINTS AT MAXIMUM 6'-0"C/C
NTS	NOT TO SCALE
Ø	ROUND, DIAMETER
PCF	POUNDS PER CUBIC FOOT
PCY	POUNDS PER CUBIC YARD
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PNL	PANEL
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
RC	REINFORCED CONCRETE
REINF	REINFORCEMENT
REQD	REQUIRED
REV	REVISION
SHT	SHEET
SIM	SIMILAR
SOG	SLAB-ON-GRADE
SST	STAINLESS STEEL
STD	STANDARD
STL	STEEL
SWC-1	REINFORCED CONCRETE CAP; SEE SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION
TEMP	TEMPORARY
TE-1	8"X6" THICKENED CONCRETE EDGE WITH 1#5 CONTINUOUS REINFORCING BAR
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VAR	VARIES
VSP-1	8" HOLLOW PROFILE VINYL SHEET PILE SUCH AS 800 SERIES BY TRULINE OR EOR APPROVED EQUAL
VSP-2	8" HOLLOW PROFILE VINYL SHEET PILE SUCH AS 800 SERIES BY TRULINE OR EOR APPROVED EQUAL
VSP-3	8" HOLLOW PROFILE VINYL SHEET PILE SUCH AS 800 SERIES BY TRULINE OR EOR APPROVED EQUAL
W/	WITH
W/O	WITH OUT
WP	NEW MIN10" DIA. PREASURE TREADED WOOD PILE W/ MIN 15'0" EMBEDMENT INTO GROUND BELOW AND MIN. 6'-0" EXTENSION ABOVE HIGH TIDE ELEVATION

LEGENDS



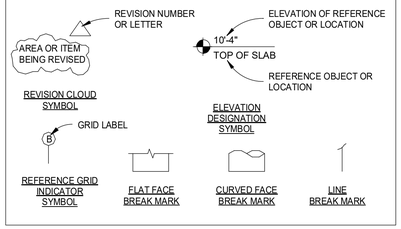
SECTION MARK

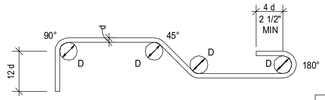


DETAIL MARK

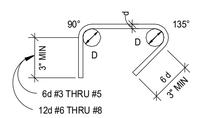
UNIVERSAL SYMBOLS

THESE FOLLOWING SYMBOLS MAY BE USED THROUGHOUT THE DRAWINGS

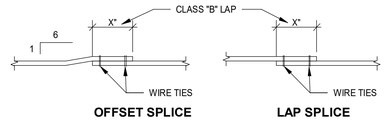




STANDARD HOOKS AND BENDS



TIES AND STIRRUPS



NOTES:
1) d = BAR DIAMETER

2) **FOR STANDARD HOOKS AND BENDS**
D = 6 d FOR #3 THRU #8
D = 8 d FOR #9 THRU #11

3) **FOR TIES AND STIRRUPS**
D = 4 d FOR #3 THRU #5

4) REFER TO TYPICAL WALL CONSTRUCTION NOTES FOR VERTICAL REINF. SPLICE REQ'S

CLASS "B" LAP	
BAR SIZE	X
#3	22"
#4	30"
#5	36"
#6	44"
#7	66"
#8	74"
#9	84"

1 S-0.00 — SCH- TYP. REINFORCING DETAILING DETAIL
3/4" = 1'-0"

SHEET INDEX

SHT NO.	DESCRIPTION	CURRENT REVISION	CURRENT REVISION DATE
S-0.00	STRUCTURAL NOTES	2	05/21/2019
S-2.00D	DEMOLITION PLANS	2	05/21/2019
S-2.00N	NEW CONSTRUCTION PLAN	2	05/21/2019
S-2.01N	NEW CONSTRUCTION PLAN	2	05/21/2019
S-3.00	SECTIONS AND DETAILS	2	05/21/2019

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CONSULTING STRUCTURAL ENGINEERS
3440 N.E. 12TH AVENUE
OAKLAND PARK, FL 33334
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FAX: 954-653-4170

MARCUS O. UNTERWEGER, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO: 63860

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY MARCUS O. UNTERWEGER, P.E. ON THE DATE INDICATED HERE USING A SHA AUTHENTICATION CODE/

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA AUTHENTICATION CODE MAY BE VERIFIED ON ANY ELECTRONIC COPIES.

NOTE: MUE18112601
THESE DRAWINGS, ALONG WITH THE ARCHITECTURAL DRAWINGS, AND PROJECT MANUAL CONSTITUTE A SINGULAR CONTRACT DOCUMENT AND MUST BE USED TOGETHER IN THEIR ENTIRETY IN THE CONSTRUCTION OF THIS PROJECT.
DETAILS AND VIEWS ON THIS SHEET ARE TO SCALE INDICATED WHEN PRINTED ON A 24x36 SIZE SHEET.

DATE:	Issue Date
SCALE:	AS NOTED
DRAWN BY:	Author
CHECKED BY:	Checker
FIELDBOOK:	
PAGE(S):	

BY:	DATE:	DESCRIPTION:
2	05/21/2019	BLDG. DEPT. COMMENTS
1	05/07/2019	B.C. ERL Comments

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ENGINEERS PLANNERS SURVEYORS
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FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No.: 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No.: C000414

CITY OF HOLLYWOOD MARINA
BOAT LAUNCHING AREA
700 POLK STREET

PREPARED FOR:
CITY OF HOLLYWOOD

BOUNDARY & TOPOGRAPHIC SURVEY

MARCUS O. UNTERWEGER
FL P.E. # 63860
MAY 28, 2019

PROJECT NO.
19-0005-001-01

S-0.00
SHEET ____ OF ____

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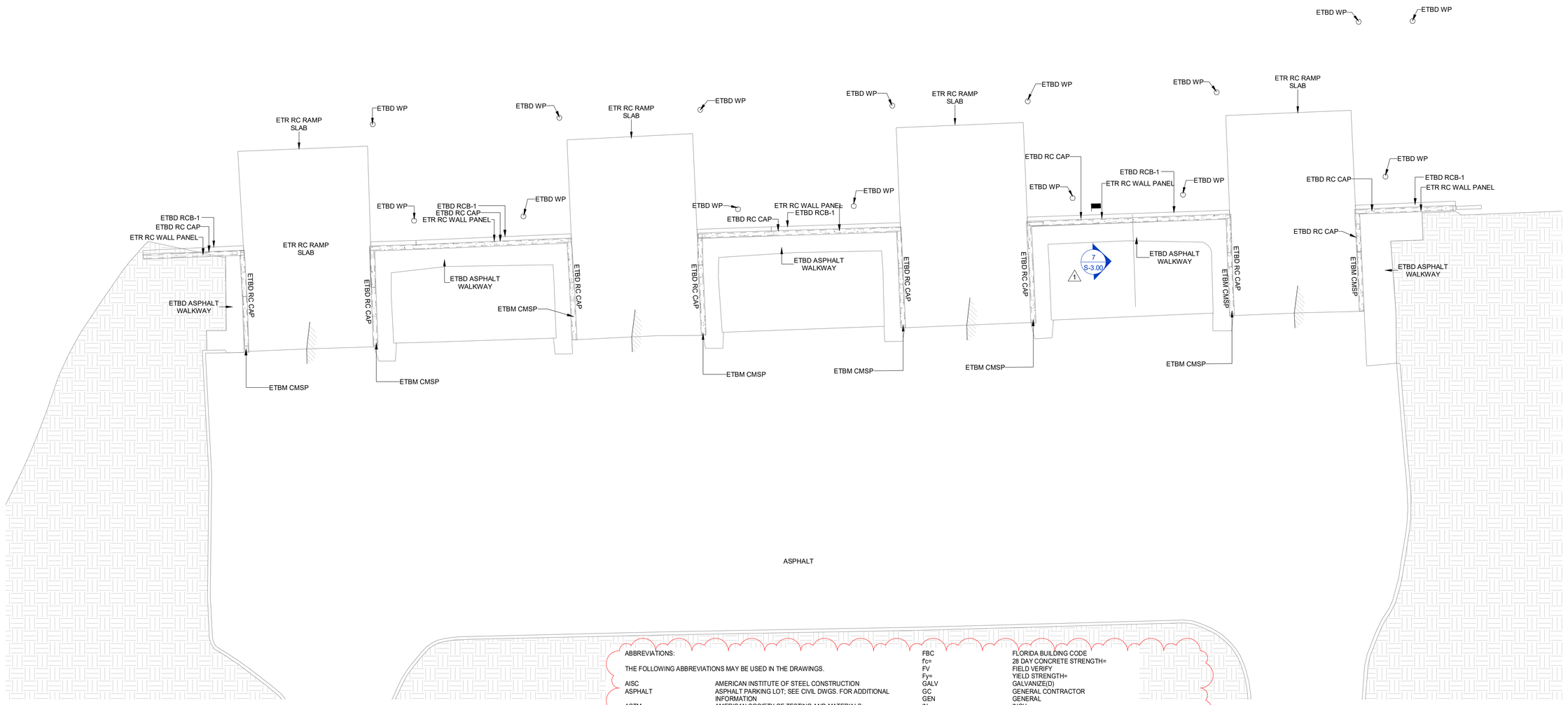

1 L2-SEA WALL - DEMOLITION PLAN
S-2.00D 1" = 10'-0"

NORTH

DEMOLITION KEY NOTES:

1. ACTUAL FIELD AS-BUILD CONDITIONS MAY VARY FROM WHAT IS INDICATED ON THE PLANS. ALL DIMENSIONS, ELEVATIONS AND ANY OTHER CONDITIONS OF THE EXISTING STRUCTURE SHALL BE FIELD VERIFIED PRIOR TO DEMOLITION, FABRICATION AND INSTALLATION OF NEW SEA WALL COMPONENTS.
2. LOCATE ALL UNDERGROUND UTILITIES BEFORE DRILLING, EXCAVATING OR PERFORMING ANY OTHER UNDERGROUND WORK
3. WHEN UNANTICIPATED STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, INVESTIGATE AND MEASURE THE NATURE AND EXTENT OF THE CONFLICT(S) PROMPTLY AND SUBMIT A WRITTEN REPORT TO THE EOR AND AOR.
4. VERIFY THE EXISTING CONDITIONS INDICATED ON THE CONSTRUCTION DOCUMENTS PRIOR TO COMMENCING WITH ANY DEMOLITION AND CONSTRUCTION.
5. NOTIFY MUENGINEERS OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE CONSTRUCTION DOCUMENTS.
6. VERIFY WITH MUENGINEERS PRIOR TO REMOVING OR MODIFYING ANY STRUCTURAL MEMBERS THAT HAVE NOT BEEN INCLUDED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS.
7. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE REMOVAL OF ANY ELEMENT WILL NOT RESULT IN A STRUCTURAL DEFICIENCY OR UNPLANNED COLLAPSE OF ANY PORTION OF THE STRUCTURE OR ADJACENT STRUCTURES DURING SELECTIVE DEMOLITION ACTIVITIES.
8. DO NOT DEMOLISH THE ETBD RC CAP UNTIL THE ETBD RC BEAM HAS BEEN COMPLETELY DEMOLISHED AND REPLACED WITH THE NEW RC BEAM

ABBREVIATIONS:

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DIA	DIAMETER
DIM	DIMENSION
DM-1	12"X18"X60" REINFORCED CONCRETE DEAD MAN WITH 4#5 HORIZONTAL AND 12#5 VERTICAL REINFORCING
DM-2	12"X20"X60" REINFORCED CONCRETE DEAD MAN WITH 4#5 HORIZONTAL AND 12#5 VERTICAL REINFORCING
DWG	DRAWING
EA	EACH
EF	EACH FACE
EL	ELEVATION
ENGR	ENGINEER
EQ	EQUAL
ETBD	EXISTING TO BE DEMOLISHED
ETBD ASPHALT WALKWAY	EXISTING TO BE DEMOLISHED ASPHALT WALK
ETBD RCB-1	EXISTING TO BE DEMOLISHED CONCRETE BEAM
ETBD RC CAP	EXISTING TO BE DEMOLISHEHD REINFORCED CONCRETE CAP
ETBD SPWP	EXISTING TO BE MODIFIED / PARTIALLY DEMOLISHED CORRUGATED METAL SHEET PILE SECTIONS
ETBD WP	EXSITING TO BE DEMOLISHED WOOD PILE
ETBM CMSP	EXISTING TO BE MODIFIED / PARTIALLY DEMOLISHED CORRUGATED METAL SHEET PILE SECTIONS
ETR	EXISTING TO REMAIN
ETR RC RAMP SLAB	EXISTING TO REMAIN CONCRETE BOAT RAMP PANELS
ETR RC WALL PANEL	EXISTING TO REMAIN REINFORCED CONCRETE WALL PANEL;
ETBR	EXISTING TO BE RESTORED
ETBM	EXISTING TO BE MODIFIED
EXIST	EXISTING
EXP	EXPANSION
FBC	FLORIDA BUILDING CODE
f'c=	28 DAY CONCRETE STRENGTH=
FV	FIELD VERIFY
Fy=	YIELD STRENGTH=
GALV	GALVANIZE(D)
GC	GENERAL CONTRACTOR
GEN	GENERAL
IN	INCH
INFO	INFORMATION
K	KIPS (1000 LBS)
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
LBS	POUNDS
NA	NOT APPLICABLE
NEW CONCRETE WALK	NEW 4" SLAB ON GRADE WITH ONE LAYER OF 6x6 - W1.4xW1.4 WELDED WIRE FABRIC LOCATED AT MID SLAB DEPTH AND EXPANSION JOINTS AT MAXIMUM 6'-0"C/C
NTS	NOT TO SCALE
Ø	ROUND, DIAMETER
PCF	POUNDS PER CUBIC FOOT
PCY	POUNDS PER CUBIC YARD
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PNL	PANEL
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
RC	REINFORCED CONCRETE
REINF	REINFORCEMENT
REQD	REQUIRED
REV	REVISION
SHT	SHEET
SIM	SIMILAR
SOG	SLAB-ON-GRADE
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SWC-1	REINFORCED CONCRETE CAP; SEE SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION
TEMP	TEMPORARY
TE-1	8"X8" THICKENED CONCRETE EDGE WITH 1#5 CONTINUOUS REINFORCING BAR
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W/	WITH
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WP	NEW MIN10" DIA. PREASURE TREADED WOOD PILE W/ MIN 15'0" EMBEDMENT INTO GROUND BELOW AND MIN. 6'-0" EXTENSION ABOVE HIGH TIDE ELEVATION

2

1

MUEngineers, Inc.
Certificate of Authorization No.29348

CONSULTING STRUCTURAL ENGINEERS

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MARCUS O. UNTERWEGER, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO: 63860

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2	05/21/2019	BLDG. DEPT. COMMENTS
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CITY OF HOLLYWOOD MARINA
BOAT LAUNCHING AREA
700 POLK STREET

PREPARED FOR:
CITY OF HOLLYWOOD

BOUNDARY & TOPOGRAPHIC SURVEY

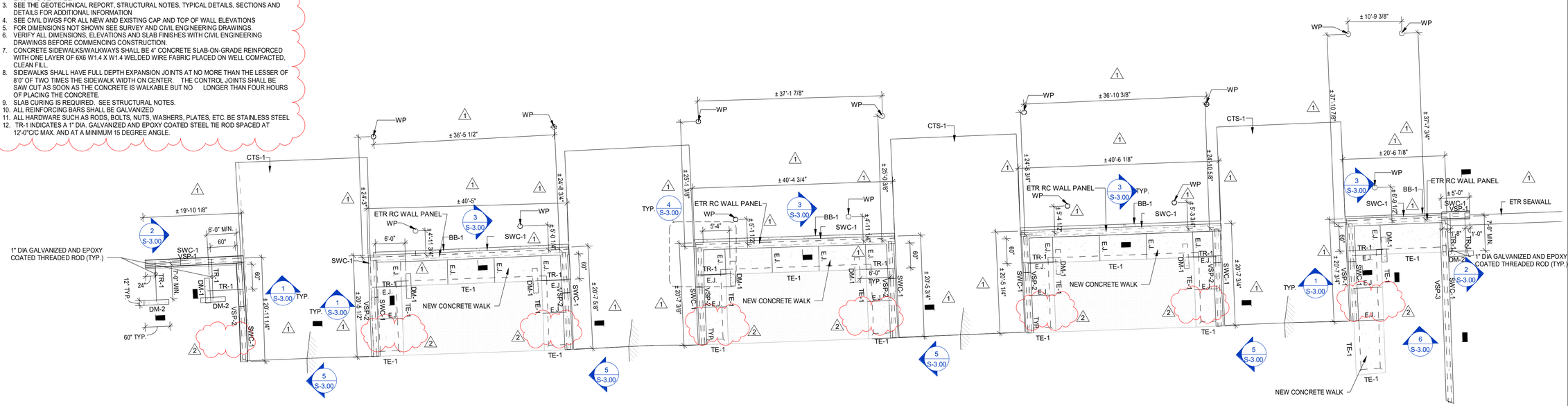
MARCUS O. UNTERWEGER
FL P.E. # 63860
MAY 28, 2019

PROJECT NO.
19-0005-001-01

S-2.00D
SHEET ____ OF ____

GENERAL SHEET NOTES:

1. GC SHALL BE RESPONSIBLE TO STABILIZE THE EXISTING SEAWALL STRUCTURE DURING ALL DEMOLITION AND NEW CONSTRUCTING PHASES
2. GC SHALL BE RESPONSIBLE TO STABILIZE SOILS BEFORE EXCAVATING NEXT TO THE EXISTING SEAWALL.
3. SEE THE GEOTECHNICAL REPORT, STRUCTURAL NOTES, TYPICAL DETAILS, SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION
4. SEE CIVIL DWGS FOR ALL NEW AND EXISTING CAP AND TOP OF WALL ELEVATIONS
5. FOR DIMENSIONS NOT SHOWN SEE SURVEY AND CIVIL ENGINEERING DRAWINGS.
6. VERIFY ALL DIMENSIONS, ELEVATIONS AND SLAB FINISHES WITH CIVIL ENGINEERING DRAWINGS BEFORE COMMENCING CONSTRUCTION.
7. CONCRETE SIDEWALKS/WALKWAYS SHALL BE 4" CONCRETE SLAB-ON-GRADE REINFORCED WITH ONE LAYER OF 6X6 W1.4 X W1.4 WELDED WIRE FABRIC PLACED ON WELL COMPACTED, CLEAN FILL.
8. SIDEWALKS SHALL HAVE FULL DEPTH EXPANSION JOINTS AT NO MORE THAN THE LESSER OF 8'0" OF TWO TIMES THE SIDEWALK WIDTH ON CENTER. THE CONTROL JOINTS SHALL BE SAW CUT AS SOON AS THE CONCRETE IS WALKABLE BUT NO LONGER THAN FOUR HOURS OF PLACING THE CONCRETE.
9. SLAB CURING IS REQUIRED. SEE STRUCTURAL NOTES.
10. ALL REINFORCING BARS SHALL BE GALVANIZED
11. ALL HARDWARE SUCH AS RODS, BOLTS, NUTS, WASHERS, PLATES, ETC. BE STAINLESS STEEL
12. TR-1 INDICATES A 1" DIA. GALVANIZED AND EPOXY COATED STEEL TIE ROD SPACED AT 12'-0"C/C MAX. AND AT A MINIMUM 15 DEGREE ANGLE.



1 L2-SEA WALL - NEW CONSTRUCTION PLAN
S-2.00N 1" = 10'-0"

NORTH

FRAMING SCHEDULE

MARK	RC WIDTH	RC DEPTH	REMARKS	TYPE COMMENTS	PHASE CREATED	PHASE DEMOLISHED
						None
BB-1	12"	12"	12"X12" RC BEAM W/ 2#6 TOP AND 2#6 BOTTOM AND #4 DOWELS WITH STANDARD HOOKS DRILLED AND EPOXIED 4" INTO THE EXISTING TO REMAIN WALL PANELS AT MAXIMUM 12" C/C	CLEAN AND REPAIR OR REPLACE TIE BACK ANCHORS AS NEEDED TO ANCHOR	New Construction	None
DM-1	12"	18"	12"X18"X60" REINFORCED CONCRETE DEAD MAN WITH 4#5 HORIZONTAL AND 12#5 VERTICAL REINFORCING	ONLY REQUIRED IF REDUCED SHEET PILE EMBEDMENT OPTION IS BEING UTILIZED; SEE SECTION AND DETAILS FOR ADDITIONAL INFORMATION	New Construction	None
DM-2	12"	20"	12"X20"X60" REINFORCED CONCRETE DEAD MAN WITH 4#5 HORIZONTAL AND 12#5 VERTICAL REINFORCING	ONLY REQUIRED IF REDUCED SHEET PILE EMBEDMENT OPTION IS BEING UTILIZED; SEE SECTION AND DETAILS FOR ADDITIONAL INFORMATION	New Construction	None
ETBD RC CAP	12"	12"	EXISTING TO BE DEMOLISEHD REINFORCED CONCRETE CAP	DEMOLISH THE CAP WITH CHIPPING HAMMERS TO AVOID CUTTING ANY EXISTING WALL PANEL REINFORCING	Existing	New Construction
ETBD RCB-1	12"	10"	EXISTING TO BE DEMOLISHED CONCRETE BEAM	EXISTING TO BE DEMOLISHED CONCRETE BEAM	Existing	New Construction
SWC-1	18"	14"	REINFORCED CONCRETE CAP; SEE SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION	NEW REINFORCED CONCRETE SEA WALL CAP	New Construction	None
TE-1	8"	8"	8"X8" THICKENED CONCRETE EDGE WITH 1#5 CONTINUOUS REINFORCING BAR	TO BE INSTALLED AT EVERY FREE CONCRETE SLAB ON GRADE EDGE	New Construction	None

FRAMING NOTES:
1. MINIMUM BAR LAP SPLICE TO BE CLASS 'C' FOR ALL BEAMS.
2. MINIMUM CONCRETE COVERAGE FOR REINFORCING SHALL BE 3 INCHES

PILE SCHEDULE

MARK	DESCRIPTION	REMARKS	PHASE CREATED	PHASE DEMOLISHED
ETBD WP	EXSITING TO BE DEMOLISHED WOOD PILE		Existing	Demolition
WP	NEW MIN10" DIA. PREASURE TREADED WOOD PILE W/ MIN 15'0" EMBEDMENT INTO GROUND BELOW AND MIN. 6'-0" EXTENSION ABOVE HIGH TIDE ELEVATION		New Construction	None

SEA WALL & RETAINING WALL SCHEDULE

MARK	DESCRIPTION	REMARKS	PHASE CREATED	PHASE DEMOLISHED
ETBD SPWP	EXISTING TO BE MODIFIED / PARTIALLY DEMOLISHED CORRUGATED METAL SHEET PILE SECTIONS	SEE SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION	Existing	New Construction
ETBM CMSP	EXISTING TO BE MODIFIED / PARTIALLY DEMOLISHED CORRUGATED METAL SHEET PILE SECTIONS	CUT THE EXISTING SHEET PILES AT OR BELOW THE EXISTING CONCRETE RAMP ELEVATION	Existing	
ETR RC WALL PANEL	EXISTING TO REMAIN REINFORCED CONCRETE WALL PANEL;	SEE SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION	Existing	None
VSP-1	8" HOLLOW PROFILE VINYL SHEET PILE SUCH AS 800 SERIES BY TRULINE OR EOR APPROVED EQUAL	MIN. 11'-0" BASE PENETRATION BELOW THE MUD LINE AND #5 VERTICAL REINFORCING AND SOLID GROUT FILL IN EVERY HOLLOW PROFILE AND NOT LESS THAN 12" C/C	New Construction	None
VSP-2	8" HOLLOW PROFILE VINYL SHEET PILE SUCH AS 800 SERIES BY TRULINE OR EOR APPROVED EQUAL	MIN. 8'-0" BASE PENETRATION BELOW THE MUD LINE AND #5 VERTICAL REINFORCING AND SOLID GROUT FILL IN EVERY HOLLOW PROFILE AND NOT LESS THAN 12" C/C	New Construction	None
VSP-3	8" HOLLOW PROFILE VINYL SHEET PILE SUCH AS 800 SERIES BY TRULINE OR EOR APPROVED EQUAL	MIN. 5'-0" BASE PENETRATION BELOW THE THE LOWER FINISHED GRADE ELEVATION AND #5 VERTICAL REINFORCING AND SOLID GROUT FILL IN EVERY HOLLOW PROFILE AND NOT LESS THAN 12" C/C	New Construction	None

WALL PANEL SCHEDULE NOTES:
1. MINIMUM CONCRETE COVERAGE FOR REINFORCING SHALL BE AT A MINIMUM 3 INCHES

FLOOR SCHEDULE

MARK	DESCRIPTION	REMARKS	PHASE CREATED	PHASE DEMOLISHED
ASPHALT	ASPHALT PARKING LOT; SEE CIVIL DWGS. FOR ADDITIONAL INFORMATION		Existing	None
CTS-1	NEW 4" CONCRETE TOPPING SLAB WITH MIN. 5 lbs PER CUBIC YARD NON METALLIC, SYNTHETIC FIBER REINFORCING	CLEAN EXISTING CONCRETE PAMP PANELS OF ALL NOT CONCRETE MATERIAL PRIOR TO PLACING OF CONCRETE	New Construction	None
ETBD ASPHALT WALKWAY	EXISTING TO BE DEMOLISHED ASPHALT WALK		Existing	New Construction
ETR RC RAMP SLAB	EXISTING TO REMAIN CONCRETE BOAT RAMP PANELS	REMOVE AS NEEDED AT THE TOP OF THE RAMP TO PROVIDE A SMOOTH TRANSITION TO THE ADJACENT NEW ASPHALT PARKING SURFACE	Existing	None
NEW CONCRETE WALK	NEW 4" SLAB ON GRADE WITH ONE LAYER OF 6x6 - W1.4xW1.4 WELDED WIRE FABRIC LOCATED AT MID SLAB DEPTH AND EXPANSION JOINTS AT MAXIMUM 6'-0"C/C		New Construction	None

ABBREVIATIONS:

THE FOLLOWING ABBREVIATIONS MAY BE USED IN THE DRAWINGS.

AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ASPHALT	ASPHALT PARKING LOT; SEE CIVIL DWGS. FOR ADDITIONAL INFORMATION
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
BB-1	12"X12" RC BEAM W/ 2#6 TOP AND 2#6 BOTTOM AND #4 DOWELS WITH STANDARD HOOKS DRILLED AND EPOXIED 4" INTO THE EXISTING TO REMAIN WALL PANELS AT MAXIMUM 12" C/C
CIP	CAST-IN-PLACE
CJ	CONSTRUCTION/CONTROL JOINT
CL	CENTERLINE
CONC	CONCRETE
CONT	CONTINUOUS
COORD	COORDINATE
CTS-1	NEW 4" CONCRETE TOPPING SLAB WITH MIN. 5 lbs PER CUBIC YARD NON METALLIC, SYNTHETIC FIBER REINFORCING
D&E	DRILL AND EPOXY
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DM-1	12"X18"X60" REINFORCED CONCRETE DEAD MAN WITH 4#5 HORIZONTAL AND 12#5 VERTICAL REINFORCING
DM-2	12"X20"X60" REINFORCED CONCRETE DEAD MAN WITH 4#5 HORIZONTAL AND 12#5 VERTICAL REINFORCING
DWG	DRAWING
EA	EACH
EF	EACH FACE
EL	ELEVATION
ENGR	ENGINEER
EQ	EQUAL
ETBD	EXISTING TO BE DEMOLISHED
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ETR	EXISTING TO REMAIN
ETR RC RAMP SLAB	EXISTING TO REMAIN CONCRETE BOAT RAMP PANELS
ETR RC WALL PANEL	EXISTING TO REMAIN REINFORCED CONCRETE WALL PANEL;
ETBR	EXISTING TO BE RESTORED
ETBM	EXISTING TO BE MODIFIED
EXIST	EXISTING
EXP	EXPANSION
FBC	FLORIDA BUILDING CODE
f'c=	28 DAY CONCRETE STRENGTH=
FV	FIELD VERIFY
Fy=	YIELD STRENGTH=
GALV	GALVANIZE(D)
GC	GENERAL CONTRACTOR
GEN	GENERAL
IN	INCH
INFO	INFORMATION
K	KIPS (1000 LBS)
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
LBS	POUNDS
NA	NOT APPLICABLE
NEW CONCRETE WALK	NEW 4" SLAB ON GRADE WITH ONE LAYER OF 6x6 - W1.4xW1.4 WELDED WIRE FABRIC LOCATED AT MID SLAB DEPTH AND EXPANSION JOINTS AT MAXIMUM 6'-0"C/C
NTS	NOT TO SCALE
Ø	ROUND, DIAMETER
PCF	POUNDS PER CUBIC FOOT
PCY	POUNDS PER CUBIC YARD
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PNL	PANEL
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RC	REINFORCED CONCRETE
REINF	REINFORCEMENT
REQD	REQUIRED
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SHT	SHEET
SIM	SIMILAR
SOG	SLAB-ON-GRADE
SST	STAINLESS STEEL
STD	STANDARD
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SWC-1	REINFORCED CONCRETE CAP; SEE SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION
TEMP	TEMPORARY
TE-1	8"X8" THICKENED CONCRETE EDGE WITH 1#5 CONTINUOUS REINFORCING BAR
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W/	WITH
W/O	WITH OUT
WP	NEW MIN10" DIA. PREASURE TREADED WOOD PILE W/ MIN 15'0" EMBEDMENT INTO GROUND BELOW AND MIN. 6'-0" EXTENSION ABOVE HIGH TIDE ELEVATION

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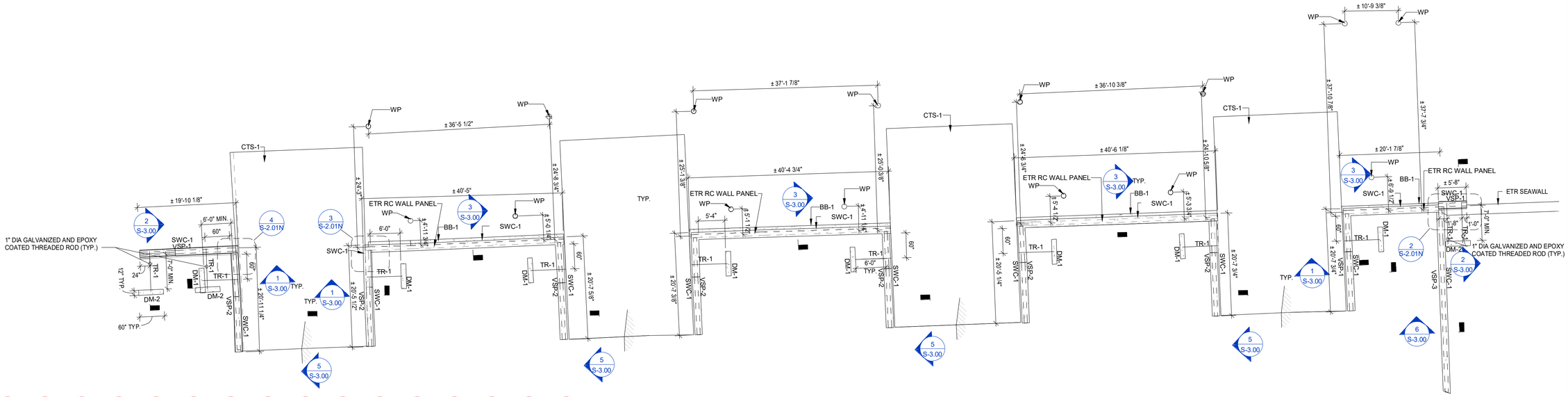
PREPARED FOR:
CITY OF HOLLYWOOD

BOUNDARY & TOPOGRAPHIC SURVEY

MARCUS O. UNTERWEGER
FL P.E. # 63860
MAY 28, 2019

PROJECT NO.
19-0005-001-01

S-2.00N
SHEET ____ OF ____



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GEN	GENERAL
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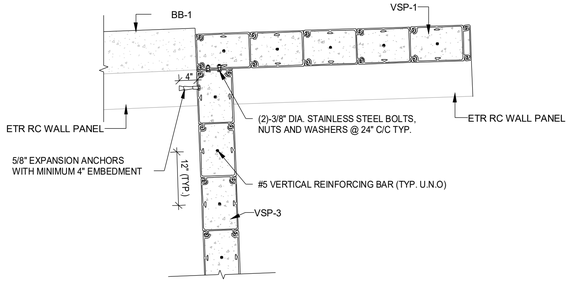
2

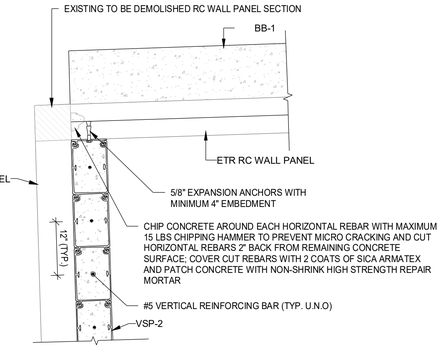
L2-SEA WALL - RESTORATION AND NEW CONSTRUCTION

1 S-2.01N 1" = 10'-0"

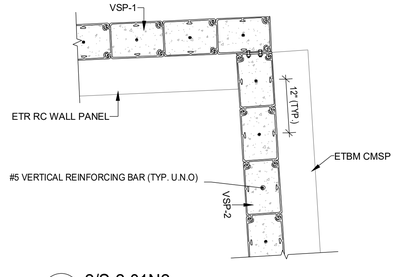
NORTH



2 2/S-2.01N
S-2.01N 3/4" = 1'-0"



3 3/S-2.01
S-2.01N 3/4" = 1'-0"



4 2/S-2.01N2
S-2.01N 3/4" = 1'-0"

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FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No.: 271
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CITY OF HOLLYWOOD MARINA
BOAT LAUNCHING AREA
700 POLK STREET

PREPARED FOR:
CITY OF HOLLYWOOD

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MARCUS O. UNTERWEGER, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO: 63860

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MAY 28, 2019

PROJECT NO.
19-0005-001-01

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S-2.01N
2
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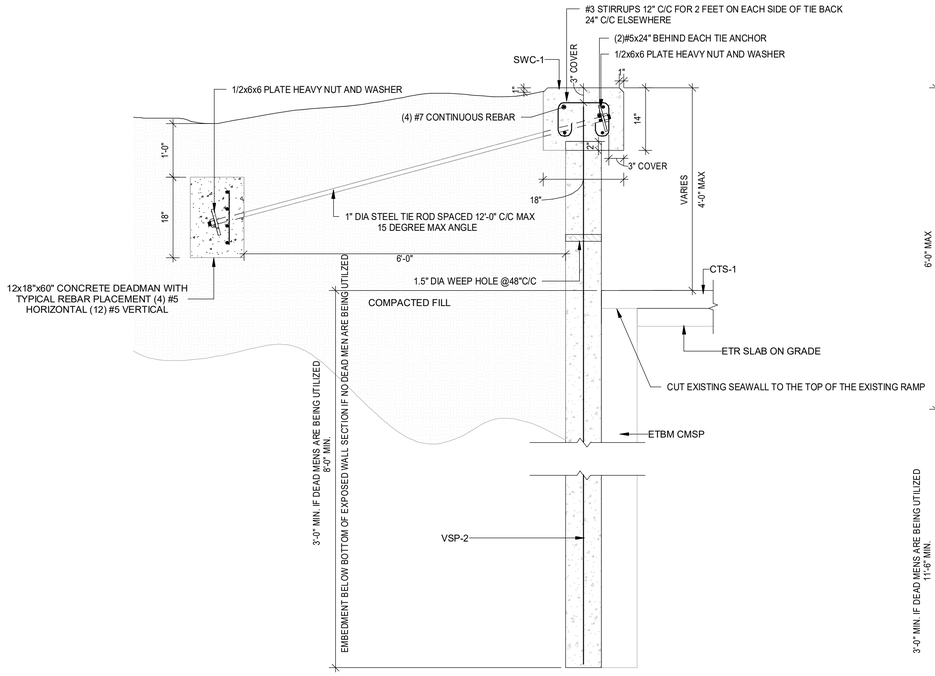

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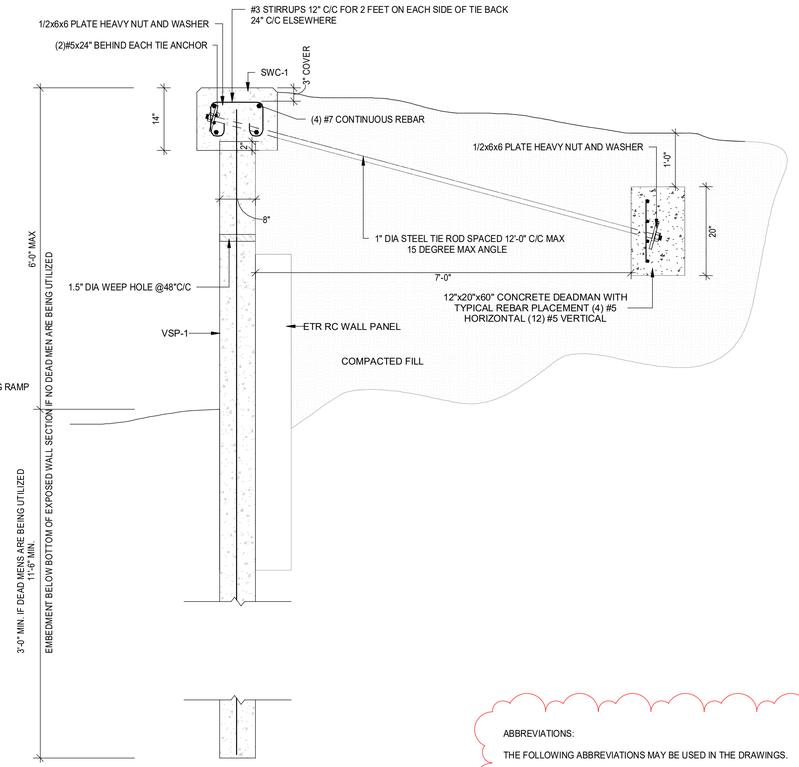

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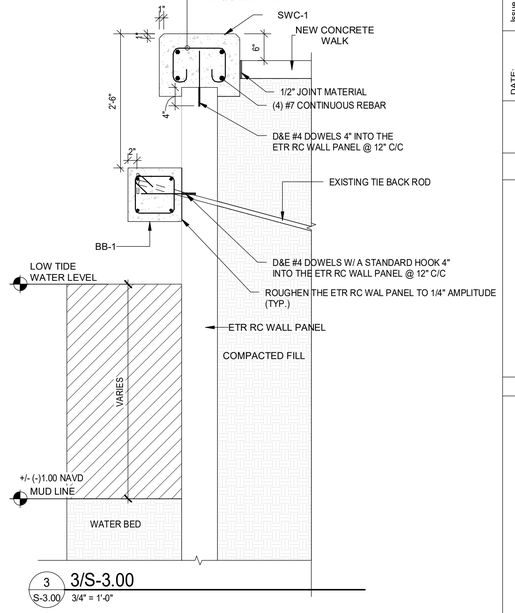

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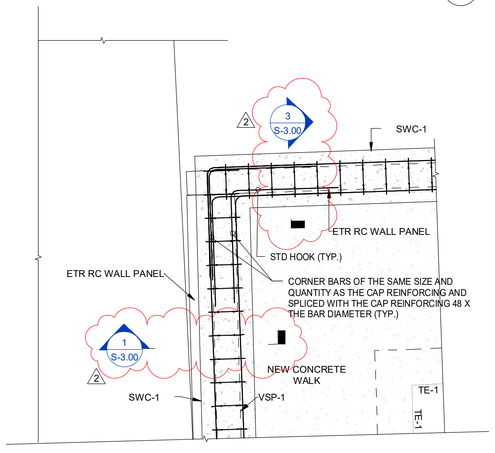

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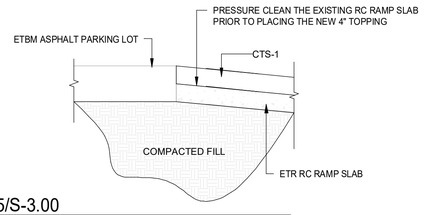

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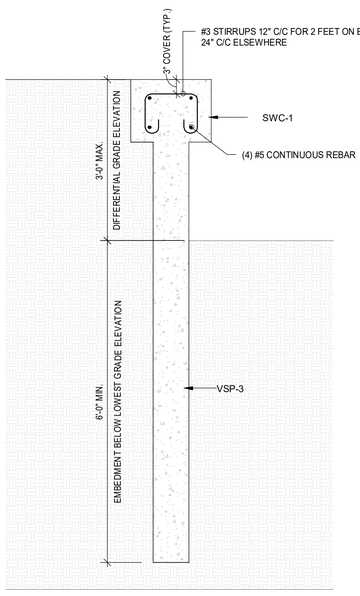

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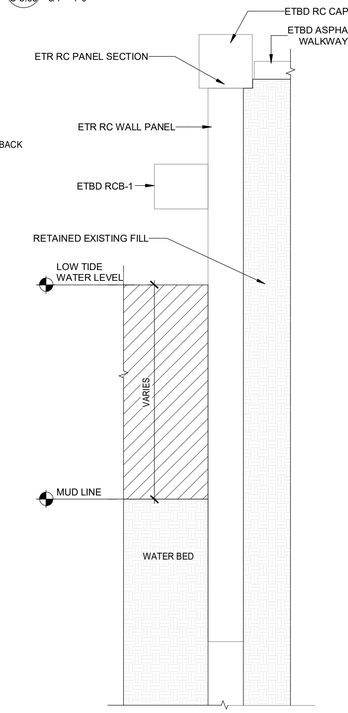
3/4" = 1'-0"



7 S-3.00 7/S-3.00
3/4" = 1'-0"

ABBREVIATIONS:

THE FOLLOWING ABBREVIATIONS MAY BE USED IN THE DRAWINGS.

AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ASPHALT	ASPHALT PARKING LOT; SEE CIVIL DWGS. FOR ADDITIONAL INFORMATION
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
BB-1	12"X12" RC BEAM W/ 2#6 TOP AND 2#6 BOTTOM AND #4 DOWELS WITH STANDARD HOOKS DRILLED AND EPOXIED 4" INTO THE EXISTING TO REMAIN WALL PANELS AT MAXIMUM 12" C/C
CIP	CAST-IN-PLACE
CJ	CONSTRUCTION/CONTROL JOINT
CL	CENTERLINE
CONC	CONCRETE
CONT	CONTINUOUS
COORD	COORDINATE
CTS-1	NEW 4" CONCRETE TOPPING SLAB WITH MIN. 5 lbs PER CUBIC YARD NON METALLIC, SYNTHETIC FIBER REINFORCING
D&E	DRILL AND EPOXY
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DM-1	12"X18"X60" REINFORCED CONCRETE DEAD MAN WITH 4#5 HORIZONTAL AND 12#5 VERTICAL REINFORCING
DM-2	12"X20"X60" REINFORCED CONCRETE DEAD MAN WITH 4#5 HORIZONTAL AND 12#5 VERTICAL REINFORCING
DWG	DRAWING
EA	EACH
EF	EACH FACE
EL	ELEVATION
ENGR	ENGINEER
EQ	EQUAL
ETBD	EXISTING TO BE DEMOLISHED
ETBD ASPHALT WALKWAY	EXISTING TO BE DEMOLISHED ASPHALT WALK
ETBD RCB-1	EXISTING TO BE DEMOLISHED CONCRETE BEAM
ETBD RC CAP	EXISTING TO BE DEMOLISEHD REINFORCED CONCRETE CAP
ETBD SPWP	EXISTING TO BE MODIFIED / PARTIALLY DEMOLISHED
CORRUGATED	METAL SHEET PILE SECTIONS
ETBD WP	EXSITING TO BE DEMOLISHED WOOD PILE
ETBM CMSP	EXISTING TO BE MODIFIED / PARTIALLY DEMOLISHED CORRUGATED METAL SHEET PILE SECTIONS
ETR	EXISTING TO REMAIN
ETR RC RAMP SLAB	EXISTING TO REMAIN CONCRETE BOAT RAMP PANELS
ETR RC WALL PANEL	EXISTING TO REMAIN REINFORCED CONCRETE WALL PANEL;
ETBR	EXISTING TO BE RESTORED
ETBM	EXISTING TO BE MODIFIED
EXIST	EXISTING
EXP	EXPANSION
FBC	FLORIDA BUILDING CODE
f'c=	28 DAY CONCRETE STRENGTH=
FV	FIELD VERIFY
Fy=	YIELD STRENGTH=
GALV	GALVANIZE(D)
GC	GENERAL CONTRACTOR
GEN	GENERAL
IN	INCH
INFO	INFORMATION
K	KIPS (1000 LBS)
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
LBS	POUNDS
NA	NOT APPLICABLE
NEW CONCRETE WALK	NEW 4" SLAB ON GRADE WITH ONE LAYER OF 6x6 - W1.4xW1.4 WELDED WIRE FABRIC LOCATED AT MID SLAB DEPTH AND EXPANSION JOINTS AT MAXIMUM 6'-0"C/C
NTS	NOT TO SCALE
Ø	ROUND, DIAMETER
PCF	POUNDS PER CUBIC FOOT
PCY	POUNDS PER CUBIC YARD
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PNL	PANEL
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
RC	REINFORCED CONCRETE
REINF	REINFORCEMENT
REQD	REQUIRED
REV	REVISION
SHT	SHEET
SIM	SIMILAR
SOG	SLAB-ON-GRADE
SST	STAINLESS STEEL
STD	STANDARD
STL	STEEL
SWC-1	REINFORCED CONCRETE CAP; SEE SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION
TEMP	TEMPORARY
TE-1	8"X8" THICKENED CONCRETE EDGE WITH 1#5 CONTINUOUS REINFORCING BAR
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VAR	VARIES
VSP-1	8" HOLLOW PROFILE VINYL SHEET PILE SUCH AS 800 SERIES BY TRULINE OR EOR APPROVED EQUAL
VSP-2	8" HOLLOW PROFILE VINYL SHEET PILE SUCH AS 800 SERIES BY TRULINE OR EOR APPROVED EQUAL
VSP-3	8" HOLLOW PROFILE VINYL SHEET PILE SUCH AS 800 SERIES BY TRULINE OR EOR APPROVED EQUAL
W/	WITH
W/O	WITH OUT
WP	NEW MIN10" DIA. PREASURE TREADED WOOD PILE W/ MIN 15'0" EMBEDMENT INTO GROUND BELOW AND MIN. 6'-0" EXTENSION ABOVE HIGH TIDE ELEVATION

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2 BLDG. DEPT. COMMENTS	05/21/2019	
1 B.C. ERL Comments	05/07/2019	

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