

**ATTACHMENT A (2)**  
Application Package

# SKIPPERS DOCKSIDE

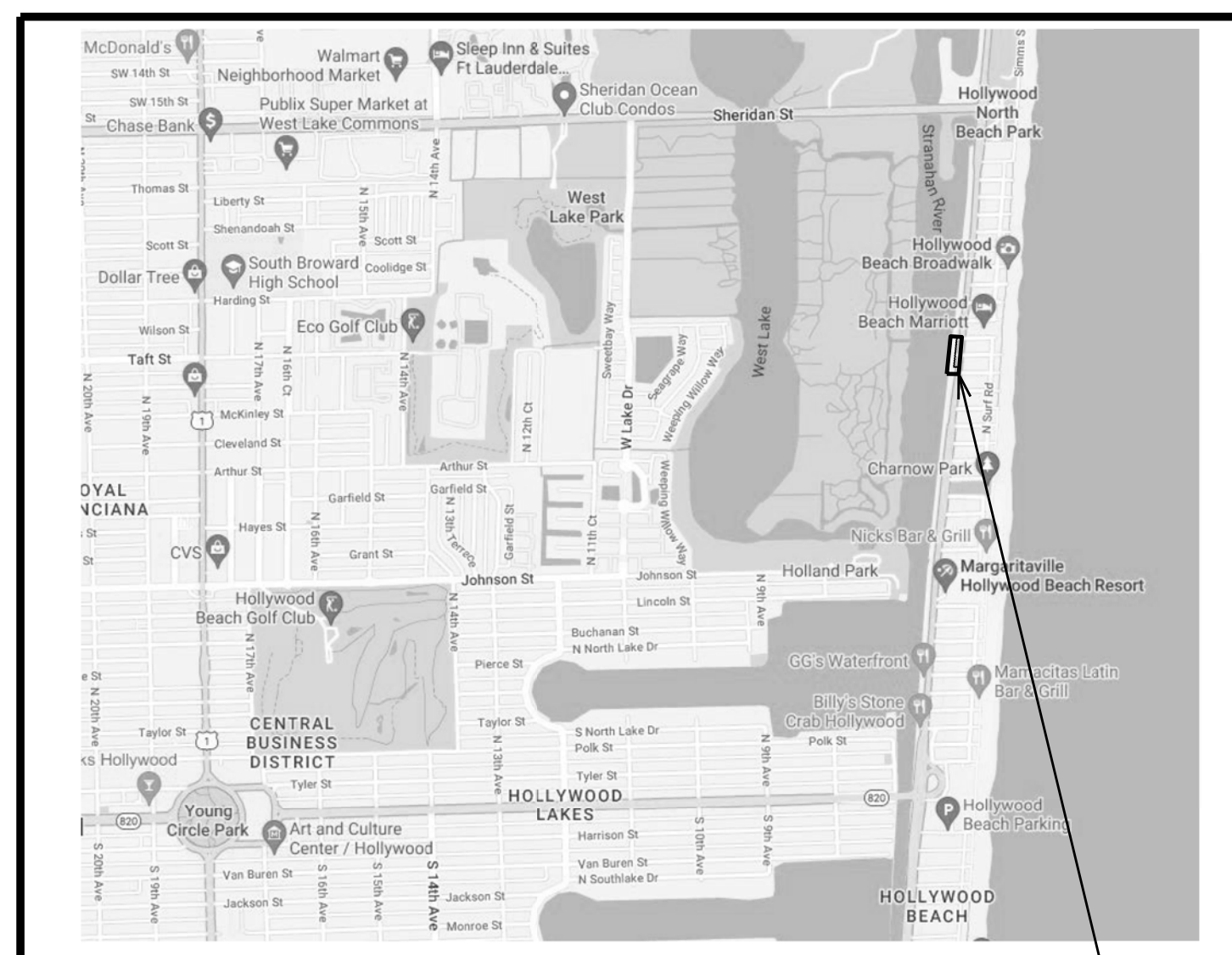
2308 N. OCEAN DRIVE,  
HOLLYWOOD, FL 33019  
BROWARD COUNTY

## CIVIL ENGINEERING PLANS

### SHEET INDEX:

- C1. COVER SHEET
- SWP1. DEMOLITION & SWPPP PLAN DURING CONSTRUCTION
- SWP2. STORMWATER POLLUTION PREVENTION DETAILS
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- PD3. PAVING & GRADING CROSS SECTIONS
- PD4. PAVING & GRADING CROSS SECTIONS
- PD5. PAVING, GRADING, & DRAINAGE DETAILS
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- PD7. CITY OF HOLLYWOOD STANDARD PAVING & DRAINAGE DETAILS
- WS1. WATER & SEWER PLAN
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- WS3. CITY OF HOLLYWOOD GENERAL WATER & SEWER DETAILS & NOTES
- WS4. CITY OF HOLLYWOOD WATER DISTRIBUTION SYSTEM DETAILS

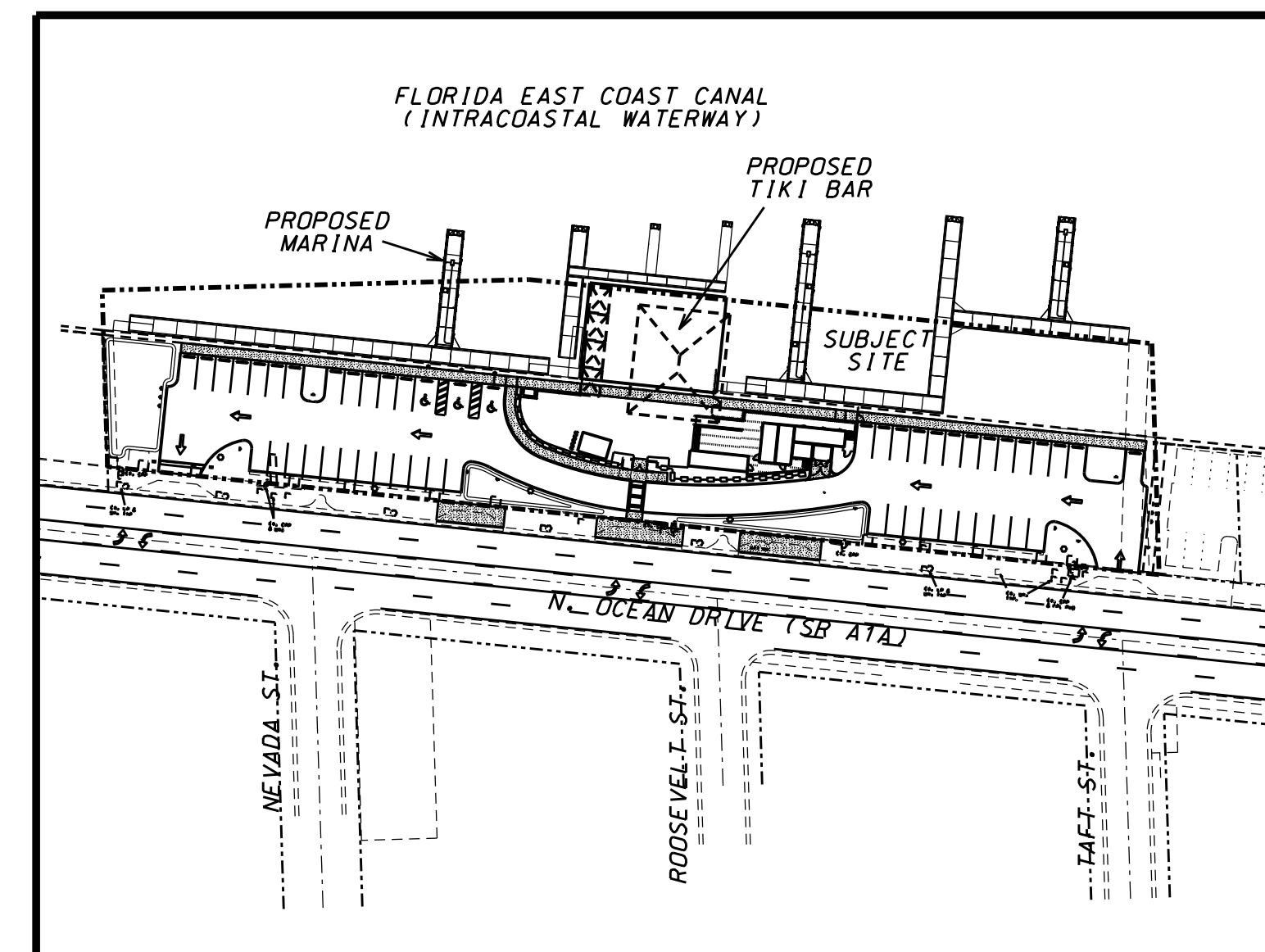
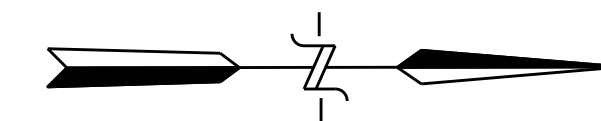
SECTION 12, TOWNSHIP 51S, RANGE 42E



LOCATION MAP

NOT TO SCALE

SUBJECT SITE



SKIPPERS DOCKSIDE

NOT TO SCALE

#### GENERAL NOTES:

CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF HOLLYWOOD UTILITIES MINIMUM DESIGN AND CONSTRUCTION STANDARDS.

CITY OF HOLLYWOOD APPROVAL OF THIS SET OF DRAWINGS IS RELIANT UPON THE DRAWINGS CLEARLY SHOWING ALL EXISTING AND PROPOSED ABOVE GROUND STRUCTURES, ASPHALT, PAVING, LANDSCAPING, WALLS, FENCES, UNDERGROUND PIPING, UNDERGROUND STRUCTURES, DUCT BANKS, TRANSFORMERS, POLES, STORM WATER STORAGE AREAS, PAVERS, ELECTRICAL CABLE, AND OTHER UTILITY FACILITIES WITHIN RIGHTS OF WAY AND EXISTING AND PROPOSED POTABLE WATER / RECLAIMED WATER / WASTEWATER EASEMENTS. WWS HEREBY AUTHORIZES ONLY THE ITEMS SHOWN ON THESE DRAWINGS TO BE WITHIN SAID POTABLE WATER / RECLAIMED WATER / WASTEWATER EASEMENTS.

#### AS-BUILT & RECORD DRAWING NOTES:

1. SURVEYOR TO PREPARE AS-BUILTS OF THE WATER MAIN TO INCLUDE ALL FITTINGS, VALVES, TOP ELEVATIONS EVERY 50' AND AT ALL CHANGES IN ELEVATION, AS APPLICABLE.
2. SURVEYOR TO PREPARE AS-BUILTS OF THE WASTEWATER MAIN TO INCLUDE ALL MANHOLES, SEWER PIPE MATERIAL AND INVERTS, AND ANY OTHER RELEVANT INFORMATION, AS APPLICABLE.
3. THE FINAL AS-BUILTS & RECORD DRAWINGS SHALL USE THE NAVD 88 DATUM.

#### FLOOD ZONE INFORMATION:

- 1a. FEMA MAP EFFECTIVE 08/08/14
- 1b. FEMA PRELIM PANEL EFFECTIVE 12/31/19
2. FLOOD ZONE AE
3. BFE 5.0 NAVD (PRELIM 6.0 NAVD)
4. FLOOD PANEL: 12011C0588H
5. COMMUNITY #: HOLLYWOOD 125113

#### ELEVATION NOTES:

1. ALL ELEVATIONS SHOWN ON THIS PLAN ARE BASED ON THE NAVD 88 DATUM.

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SCALE:	DATE	REVISIONS	DATE	REVISIONS
NA				
DRAWN BY: HEJ	06/20/23	UPDATE PER CITY SP RAI #1		
CHECKED BY: LJJ	09/15/23	UPDATE PER CITY SP RAI #2 & BCSMM RAI #1		
APPROVED BY: HEJ	11/06/23	UPDATE PER BCSMM RAI #2		
	12/15/23	UPDATE BOUNDARY, SITE CALCULATIONS		
	02/20/24	MOVE NORTH BOAT SLIP SOUTH TO ACHIEVE 7.5' SETBACK		

AJ HYDRO  
ENGINEERING, INC.  
5932 NW 73RD COURT  
PARKLAND, FL 33067  
TEL (954) 347-3397  
AJHYDRO@BELLSOUTH.NET

PROJECT: **SKIPPERS DOCKSIDE**

TITLE: **COVER SHEET**

SEAL: **HOWARD JABLON, PE #47514**

DATE: **10/25/22**

DRAWING NO.: **21-0100**

SHEET NO.: **C1 OF 1**

**ABBREVIATIONS**

BCR	BROWARD COUNTY RECORDS
BFE	BASE FLOOD ELEVATION
BFP	BACKFLOW PREVENTOR
C & G	CURB & GUTTER
CB	CATCH BASIN
CBS	CONCRETE BLOCK STUCCO
CLF	CHAIN LINK FENCE
CPP	CONCRETE POWER POLE
ECP	EQUIPMENT CONCRETE PAD
EX.	EXISTING
FF EL	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
WGV	WATER GATE VALVE
HH	HAND HOLE
INV	INVERT
PB, PG	PLAT BOOK & PAGE
PL	PROPERTY LINE
R/W	RIGHT OF WAY
SDMH	STORM DRAIN MANHOLE
SSMH	SANITARY SEWER MANHOLE
TPM	TELEPHONE MANHOLE
TYP.	TYPICAL
UE	UTILITY EASEMENT
WM	WATER MAIN
WPP	WOOD POWER POLE
YD	YARD DRAIN

**GENERAL POLLUTION PREVENTION NOTE:**

1. TO MEET BEST MANAGEMENT PRACTICES PROVISIONS, GRAVEL TO BE USED AT ALL TIMES THROUGHOUT CONSTRUCTION IN ORDER TO PREVENT ANY SOILS FROM BEING TRACKED ONTO THE PUBLIC RIGHT OF WAY.

**ELEVATION NOTES**

1. ALL ELEVATIONS SHOWN ON THIS PLAN ARE BASED ON THE NAVD 88 DATUM.

**CONTRACTOR'S RESPONSIBILITY & SWPPP REPORTING**

1. THE CONTRACTOR SHALL RETAIN A CERTIFIED SWPPP SPECIALIST FOR PURPOSES OF INSPECTING THE SITE TO ENSURE COMPLIANCE WITH THE SWPPP REQUIREMENTS PURSUANT TO THE NOTICE OF INTENT, AS WELL AS THE CITY OF HOLLYWOOD.
2. INSPECTION REPORTS SHALL BE PREPARED AND SUBMITTED WEEKLY TO THE CITY OF HOLLYWOOD, AND COPIED TO THE ENGINEER OF RECORD.

**CLEARING LIMITS**

1. UNLESS SPECIFICALLY STATED OTHERWISE ON THE PLANS, CONTRACTOR SHALL CLEAR ALL VEGETATION NOT INTENDED TO BE PRESERVED UP TO THE PROPERTY LINE.

**FDOT EROSION & POLLUTION CONTROL NOTES**

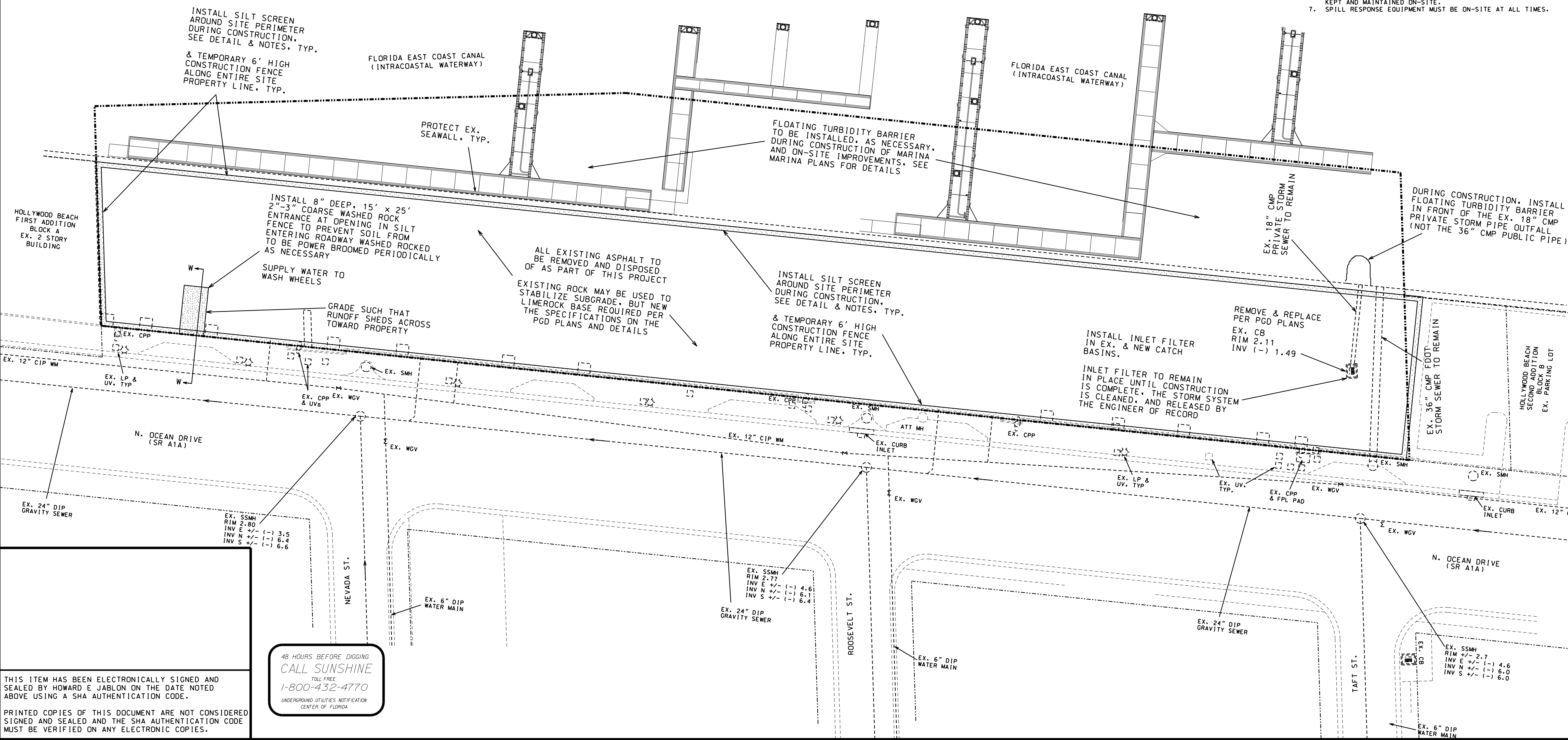
1. CONTRACTOR SHALL COMPLY WITH THE LATEST EDITION OF THE THE FDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION 104, PREVENTION, CONTROL, AND ABATEMENT OF EROSION & WATER POLLUTION.

**EROSION & POLLUTION CONTROL NOTES #1:**

1. PRIOR TO ANY CONSTRUCTION, BALED HAY OR SILT SCREENS OR OTHER APPROVED SILT BARRIER SHALL BE INSTALLED BY THE EARTHWORK CONTRACTOR AS INDICATED ON THE PLANS. SILT SCREENS SHALL REMAIN IN PLACE DURING THE LENGTH OF CONSTRUCTION OF THIS PROJECT.
2. DURING CONSTRUCTION, INLET SEDIMENT FILTERS SHALL BE PLACED IN CATCH BASINS AND REMAIN IN PLACE TO PREVENT THE RUNOFF OF SILT OR OTHER POLLUTANTS INTO THE DRAINAGE SYSTEM. MIRAFI MAY BE USED FOR DITCH BOTTOM INLETS. SEE DETAIL SHEETS FOR CURB INLET SEDIMENT BARRIERS.
3. ANY LOOSE SOIL LEAVING THE SITE MUST BE CLEANED FROM THE ADJACENT ROADWAY ON A DAILY BASIS.

**EROSION & POLLUTION CONTROL NOTES #2:**

1. PROVIDE TREE PROTECTION OF ALL SITE TREES TO REMAIN. TREE PROTECTION PER CITY OF HOLLYWOOD STANDARD DETAIL. CONTRACTOR TO OBTAIN DETAIL FROM CITY ENGINEER OR CITY FORESTER.
2. PROVIDE FOR WEEKLY INSPECTION BY THE CONTRACTOR AND AFTER EVERY 0.25 INCH RAINFALL.
3. PROVIDE AND LOCATE RAIN GAUGE ON SITE TO MEASURE RAINFALL ACTIVITY.
4. ALL EROSION CONTROL MEASURES MUST MEET ALL THE REQUIREMENTS OF THE CITY OF HOLLYWOOD EROSION CONTROL PROCEDURES AND THE FLORIDA STORMWATER, EROSION AND SEDIMENT CONTROL INSPECTOR'S MANUAL.
5. ALL EROSION AND SEDIMENT CONTROL MEASURES AND BUMPS MUST BE MAINTAINED AS REQUIRED BY THE CITY FOR THE DURATION OF THE PROJECT.
6. LOG BOOK OF ALL EROSION CONTROL INSPECTIONS MUST BE KEPT AND MAINTAINED ON-SITE.
7. SPILL RESPONSE EQUIPMENT MUST BE ON-SITE AT ALL TIMES.



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**1-800-432-4770**  
 UNDERGROUND UTILITIES NOTIFICATION  
 CENTER OF FLORIDA

SCALE: 1" = 20'	DATE	REVISIONS	DATE	REVISIONS
	06/20/23	UPDATE PER CITY SP RAI #1		
	09/15/23	UPDATE PER CITY SP RAI #2 & BCSMM RAI #1		
	12/15/23	UPDATE BOUNDARY, SITE CALCULATIONS		
	02/27/24	MOVE NORTH BOAT SLIP SOUTH TO ACHIEVE 1.5' SETBACK		

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PROJECT: **SKIPPERS DOCKSIDE**

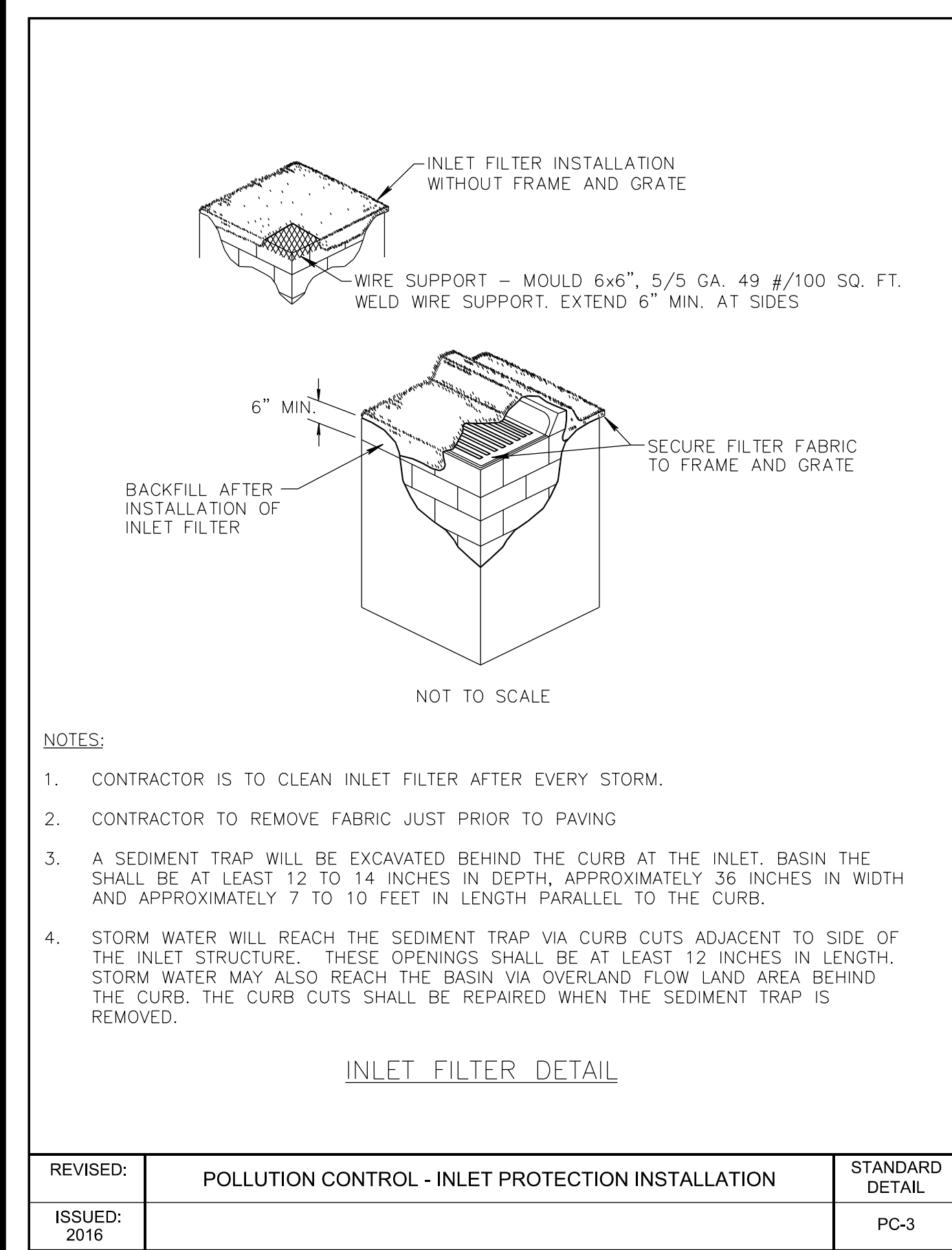
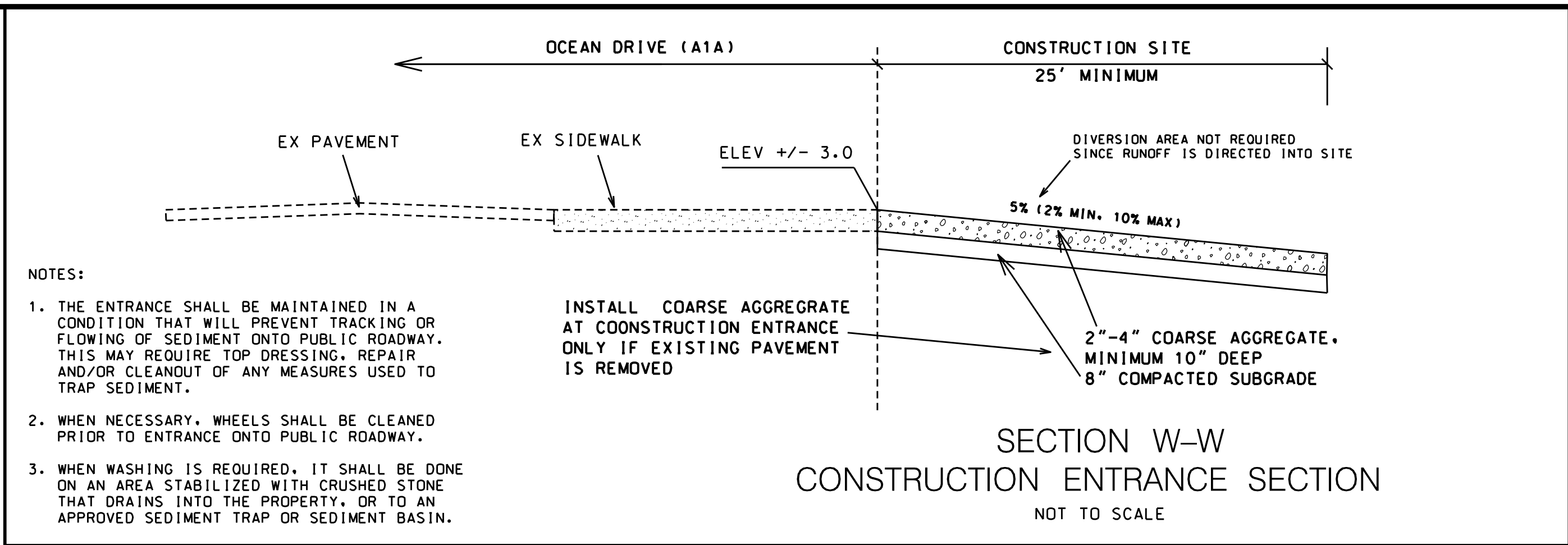
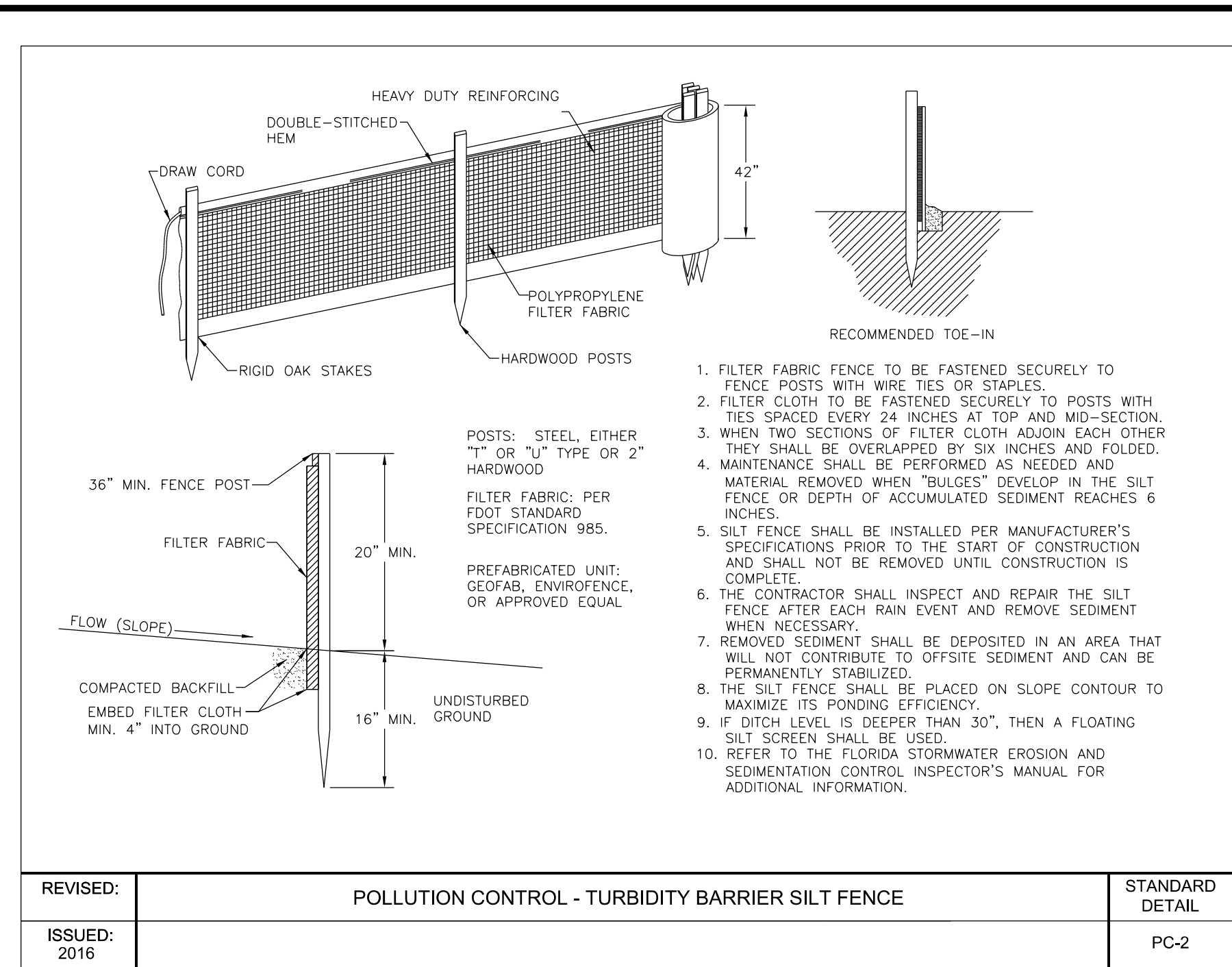
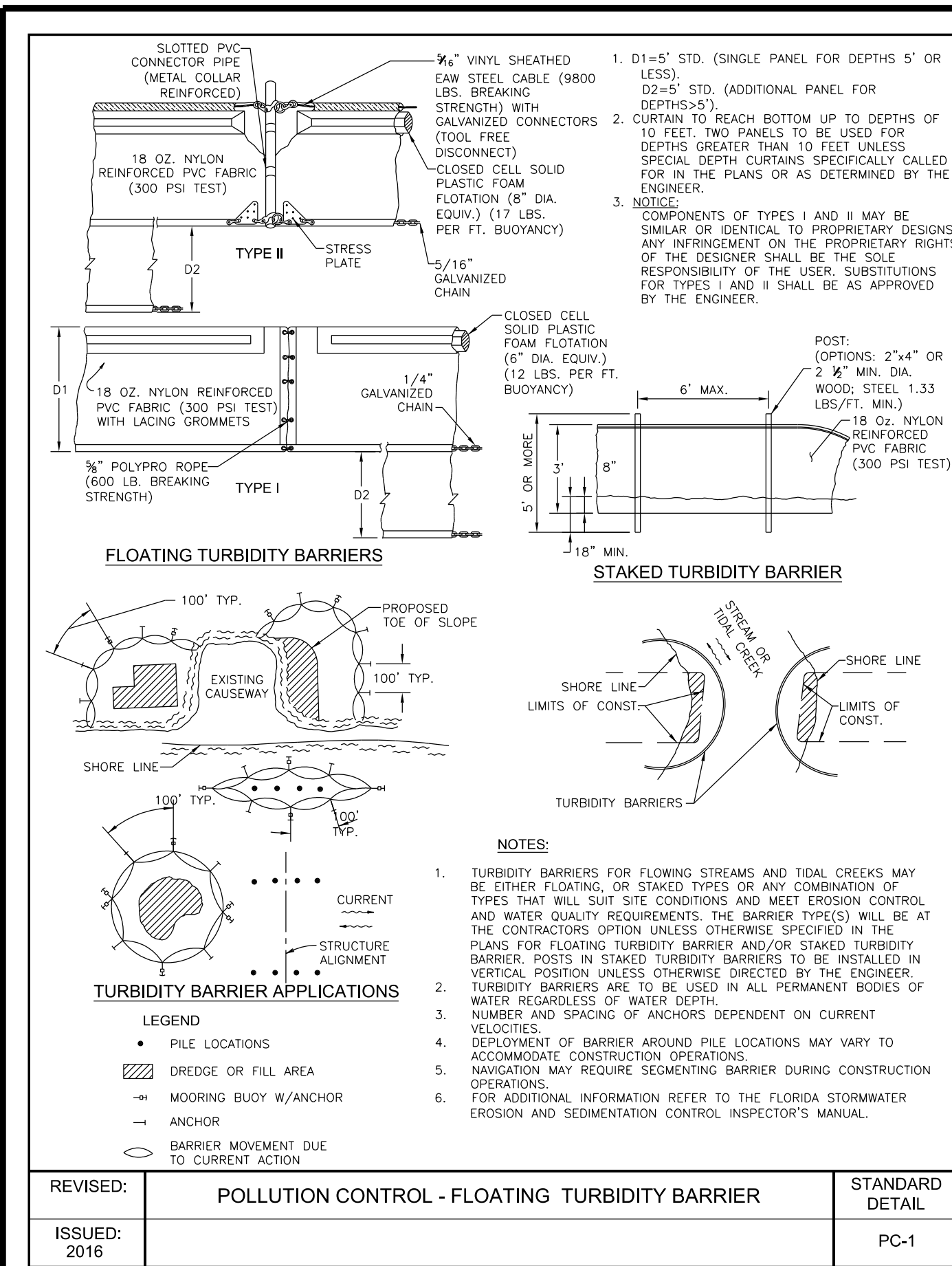
TITLE: **DEMOLITION & SWPPP PLAN DURING CONSTRUCTION**

SEAL: **HOWARD JABLON, PE #47514**

DATE: **10/25/22**

DRAWING NO. **21-0100**

SHEET NO. **SWP1 OF 2**



SCALE:	DATE	REVISIONS	DATE	REVISIONS
		COMMENTS		COMMENTS
DRAWN BY: HE.J	2			
CHECKED BY: LJ				
APPROVED BY: HE.J				

AJ HYDRO  
 ENGINEERING, INC.  
 5932 NW 73RD COURT  
 PARKLAND, FL 33067  
 TEL (954) 347-3397  
 AJHYDRO@BELLSOUTH.NET

PROJECT:  
**SKIPPERS DOCKSIDE**

TITLE:  
**STORMWATER POLLUTION PREVENTION DETAILS**

SEAL:  
 HOWARD JABLON, PE  
 #47514

DATE:  
 10/25/22

DRAWING NO.  
 21-0100

SHEET NO.  
 SWP2 OF 2

48 HOURS BEFORE DIGGING  
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**ELEVATION NOTES**  
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STORM SEWER  
STRUCTURE SCHEDULE

BASIN & CB #	DRAINAGE AREA AC.	FRAME #	RIM	INVERT			
				NORTH	SOUTH	EAST	WEST
CB 1	NA	TYPE "E"	2.50	(-) 2.25			
AS-BUILT		6616		PRB			
CB 2	NA	4160	2.60	(-) 1.50	(-) 2.25		
AS-BUILT		6210					
CB 3	NA	4160	2.60	(-) 1.50	(-) 1.50		
AS-BUILT		6210					
CB 4	NA	4160	2.60	(-) 1.50	(-) 1.50		
AS-BUILT		6210					
CB 5	NA	TYPE "E"	2.50				(-) 2.25
AS-BUILT		6210					
SDMH 6	NA	USF-420C	2.90	(-) 1.50	(-) 1.50	(-) 2.25	
AS-BUILT							
CB 7	NA	4160	2.60	(-) 1.50	(-) 1.50		
AS-BUILT		6210					
CB 8	NA	TYPE "E"	2.50				(-) 2.25
AS-BUILT		6210					
CB 9	NA	4160	2.60	(-) 1.50	(-) 1.50	(-) 2.25	(-) 1.50
AS-BUILT		6210					
CB 10	NA	4160	2.60	(-) 1.50	(-) 1.50		
AS-BUILT		6210					
CB 11	NA	4160	2.60	(-) 1.50	(-) 1.50		
AS-BUILT		6210					
SDMH 12	NA	USF-420C	2.85	1.00		(-) 1.50	
AS-BUILT							
SDMH 13	NA	USF-420C	2.94		1.00	(-) 1.50	
AS-BUILT							
CS 1	SEE DETAIL	SEE DETAIL	4.50	(-) 1.50		(-) 1.50	
AS-BUILT							
CS 999	SEE DETAIL	SEE DETAIL	4.00	(-) 1.50		(-) 1.50	
AS-BUILT							

FLOOD ZONE INFORMATION:

- FEMA MAP EFFECTIVE 08/08/14
- FEMA PRELIM PANEL EFFECTIVE 12/31/19
- FLOOD ZONE AE
- FLOOD ZONE AE
- FLOOD PANEL: 12011C0588H
- COMMUNITY #: HOLLYWOOD 125113

MINIMUM FINISHED FLOOR ELEVATION:

- THE MINIMUM FINISHED FLOOR ELEVATION SHALL BE THE GREATER OF THE FOLLOWING:
- BROWARD COUNTY 100 FLOOD MAP : 5.50 NAVD
  - FEMA BFE + 1 = ZONE X, NO BFE : 6.00 NAVD
  - COMPUTED 100 YR FLOOD STAGE : NA

ELEVATION NOTES:

- ALL ELEVATIONS SHOWN ON THIS PLAN ARE BASED ON THE NAVD 88 DATUM.
- ALL EXISTING ELEVATIONS SHOWN ON THIS PLAN ARE PER THE TOPOGRAPHIC SURVEY BY LANDTEC SURVEYING. REFER TO THE TOPOGRAPHIC SURVEY REGARDING THE EXISTING TOPOGRAPHIC CONDITIONS ON SITE.

STORMWATER NOTES:

- THIS PROPERTY HAS BEEN PREVIOUSLY DEVELOPED AND AT ONE TIME HAD A BUILDING AND PARKING LOT. THE PROPERTY OWNER INTENDS TO IMPROVE THE EXISTING PARKING LOT TO SERVE THE CURRENT PROPOSED PROJECT.
- THE PROPERTY OWNER HAS DIRECTED THE DESIGN ENGINEER TO PREPARE THESE PLANS UNDER THE ASSUMPTION THAT THIS PROPERTY HAS BEEN "GRANDFATHERED IN", BASED ON THE PREVIOUS USE, FOR PURPOSES OF STORMWATER DESIGN.
- THEREFORE, SINCE THIS PROJECT IS ASSUMED TO BE "GRANDFATHERED", WATER QUALITY AND WATER QUALITY COMPUTATIONS PURSUANT TO THE SFMD BASIS OF REVIEW FOR UPLAND DEVELOPMENT ARE NOT PROVIDED.
- THE PROPERTY OWNER HAS HIRED COASTAL SYSTEMS INTERNATIONAL, INC TO OBTAIN A PERMIT FROM THE ACOE TO CONSTRUCT THE MARINA AND DISCHARGE STORMWATER INTO THE INTRACOASTAL. BASED ON THE BAFFLE STRUCTURE DESIGNED BY CSI, INC., THERE WILL BE A DIRECT STORMWATER CONNECTION FROM THE PARKING LOT TO THE INTRACOASTAL VIA A POLLUTION REDUCING BAFFLE BOX.

DRY RETENTION AREA TABLE

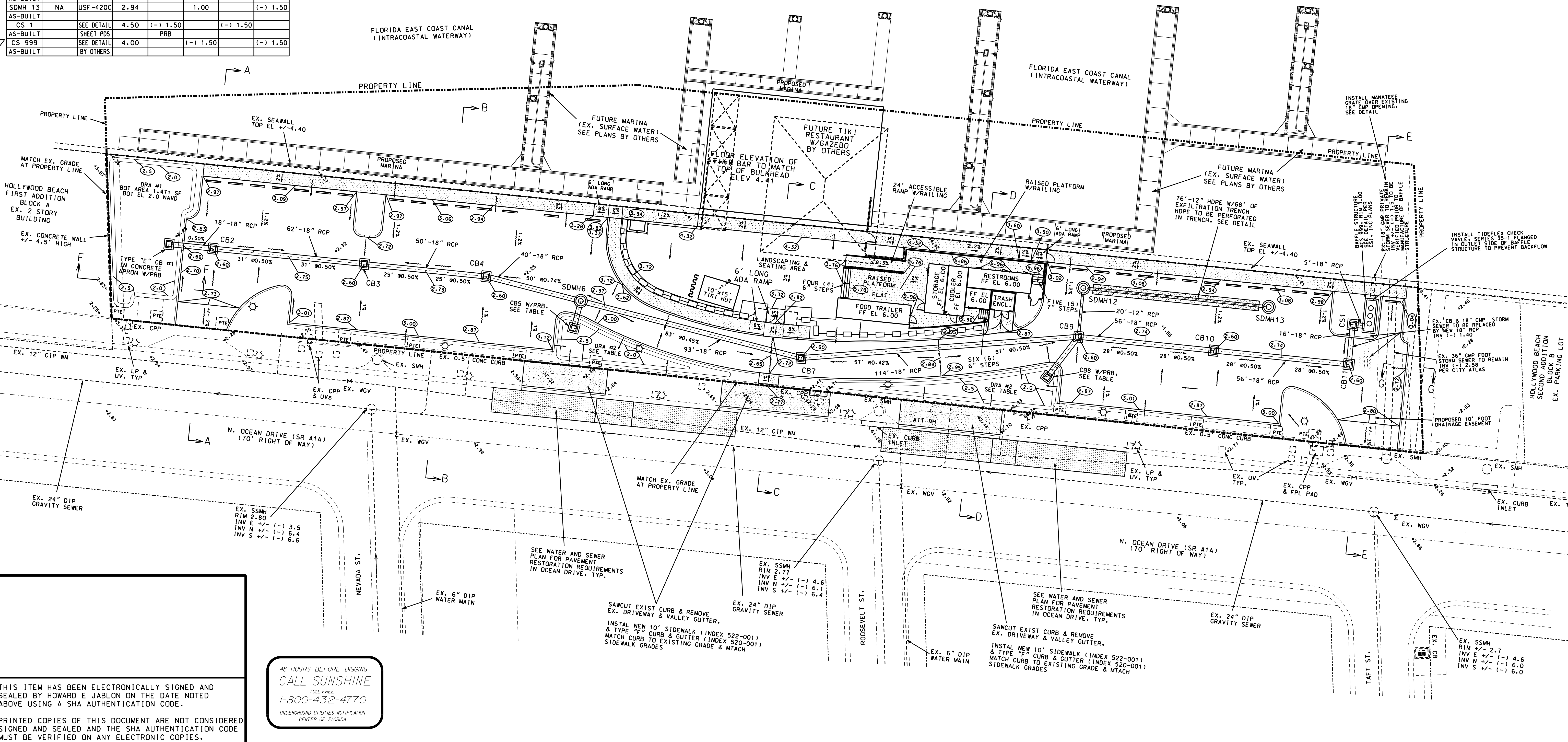
DRA #	BOT NAVD	BOTTOM AREA, SF
1	2.0	1,471 SF
2	2.0	351 SF
3	2.0	428 SF

ABBREVIATIONS

- BCR BROWARD COUNTY RECORDS
- BFE BASE FLOOD ELEVATION
- BFP BACKFLOW PREVENTOR
- C & G CURB & GUTTER
- CB CATCH BASIN
- CBS CONCRETE BLOCK STUCCO CHAIN LINK FENCE
- CPP CONCRETE POWER POLE
- ECP EQUIPMENT CONCRETE PAD
- EX. EXISTING
- FF EL FINISHED FLOOR ELEVATION
- FH FIRE HYDRANT
- WG V WATER GATE VALVE
- HH HAND HOLE
- INV INVERT
- PB, PG PLAT BOOK & PAGE
- PL PROPERTY LINE
- PTE PALM TREE EASEMENT
- R/W RIGHT OF WAY
- SDMH STORM DRAIN MANHOLE
- SSMH SANITARY SEWER MANHOLE
- TPM TELEPHONE MANHOLE
- TYP. TYPICAL
- UE UTILITY EASEMENT
- UV UTILITY VAULT
- WM WATER MAIN
- WPP WOOD POWER POLE
- YD YARD DRAIN

LEGEND

	PROPOSED DRAW PIPE & CATCH BASIN
	PROPOSED ELEVATION
	EXISTING ELEVATION
	PROPOSED FLOW DIRECTION
	PROPOSED ASPHALT
	PROPOSED CONCRETE
	PROPOSED FENCE
	EXISTING SANITARY SEWER MAIN
	EXISTING WATER MAIN
	EXISTING DRAINAGE STRUCTURES



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SCALE:	DATE:	REVISIONS	DATE:	REVISIONS
1" = 20'	10/25/22			
		06/20/23 UPDATE PER CITY SP RAI #1		
		09/15/23 UPDATE PER CITY SP RAI #2 & BCSMM RAI #1		
		11/06/23 UPDATE CONTROL STRUCTURE #6 PER BCSMM RAI #2		
		12/15/23 UPDATE BOUNDARY, SITE CALCULATIONS		
		02/27/24 MOVE NORTH BOAT SLIP SOUTH TO ACHIEVE 7.5' SETBACK		

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PROJECT:  
**SKIPPERS DOCKSIDE**

TITLE:  
**PAVING, GRADING,  
& DRAINAGE PLAN**

SEAL:  
HOWARD JABLON, PE  
#47514

DATE:  
10/25/22

DRAWING NO.  
21-0100

SHEET NO.  
PD1 OF 7

CITY ADA NOTES:

1. ANY LIP FROM 1/4", BUT NOT GREATER THAN 1/2", WILL BE BEVELED TO MEET ADA REQUIREMENTS.

ADA & SIDEWALK NOTES:

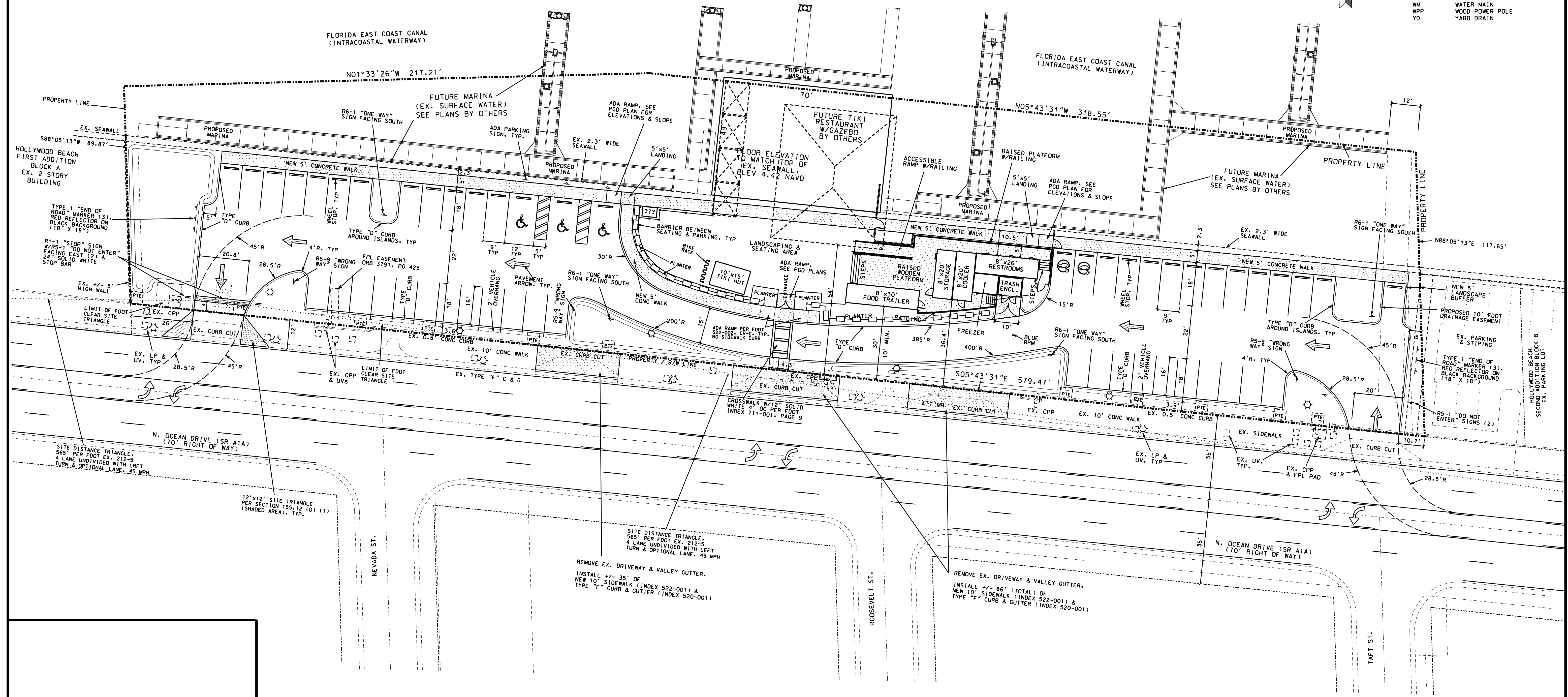
1. ALL SIDEWALK CROSS SLOPES SHALL BE A MAXIMUM OF 2%.
2. ANY LONGITUDINAL SLOPE STEEPER THAN 5% (20':1') SHALL BE CONSIDERED A RAMP.
3. THERE SHALL BE NO SLOPES STEEPER THEN 8% (12':1').
4. ANY RAMP THAT HAS A RISE GREATER THAN 6" OR LONGER THAN 6 FEET SHALL HAVE A HANDRAIL PER ADA SPECIFICATIONS.
5. ALL BUILDING ENTRANCES SHALL HAVE A 5' LANDING AREA (SLOPE NOT GREATER THAN 2%).
6. ANY INTERSECTION OF SIDEWALKS SHALL BE FLAT (2% MAX IN BOTH DIRECTIONS).
7. SIDEWALKS BASE AND SLOPE SHALL BE INSPECTED PRIOR TO FINAL MATERIAL INSTALLATION.
8. ALL ADA RAMPS SHALL BE CAST IN PLACE, TACTILE DOME MATS AND INSTALLED PER DOT INDEX 304, LATEST EDITION.

PAVEMENT MARKINGS & SIGNAGE NOTES:

1. ALL OFF-SITE PAVEMENT MARKINGS / STRIPING (IF ANY) AND PAVEMENT MARKINGS / STRIPING LEADING OFF-SITE (STOP BARS & SOLID STRIPES) SHALL BE REFLECTORIZED THERMOPLASTIC PER THE LATEST BROWARD COUNTY TRAFFIC ENGINEERING STANDARDS.
2. ALL STREET SIGNS (INCLUDING R1-1) SHALL MEET THE LATEST BROWARD COUNTY TRAFFIC ENGINEERING STANDARDS.
3. ALL PAVEMENT MARKINGS & SIGNAGE SHALL BE IN ACCORDANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS & HIGHWAYS", LATEST EDITION, & BROWARD COUNTY TRAFFIC ENGINEERING DIVISION STANDARDS, LATEST EDITION.

ABBREVIATIONS

BCR	BROWARD COUNTY RECORDS
BFE	BASE FLOOD ELEVATION
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 CENTER OF FLORIDA

SCALE: 1" = 20'	REVISIONS	REVISIONS
	DATE	COMMENTS
DRAWN BY: HEJ	09/15/23	UPDATE PER CITY SP RAI #2
CHECKED BY: LJJ	11/06/23	UPDATE TIKI RESTAURANT NOTE PER BCSSM RAI #2
APPROVED BY: HEJ	12/15/23	UPDATE BOUNDARY, SITE CALCULATIONS
	02/06/24	ADD ADA RAMP & LANDING INFO, DRIVEWAY SETBACKS
	02/27/24	MOVE NORTH BOAT SLIP SOUTH TO ACHIEVE 7.5' SETBACK

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PROJECT:  
**SKIPPERS DOCKSIDE**

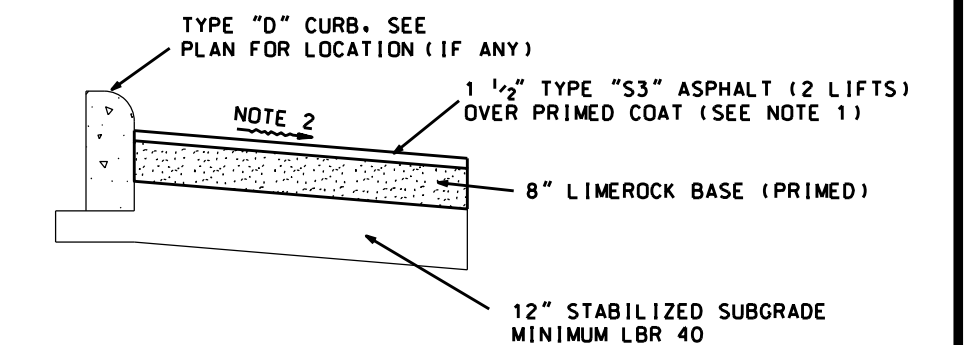
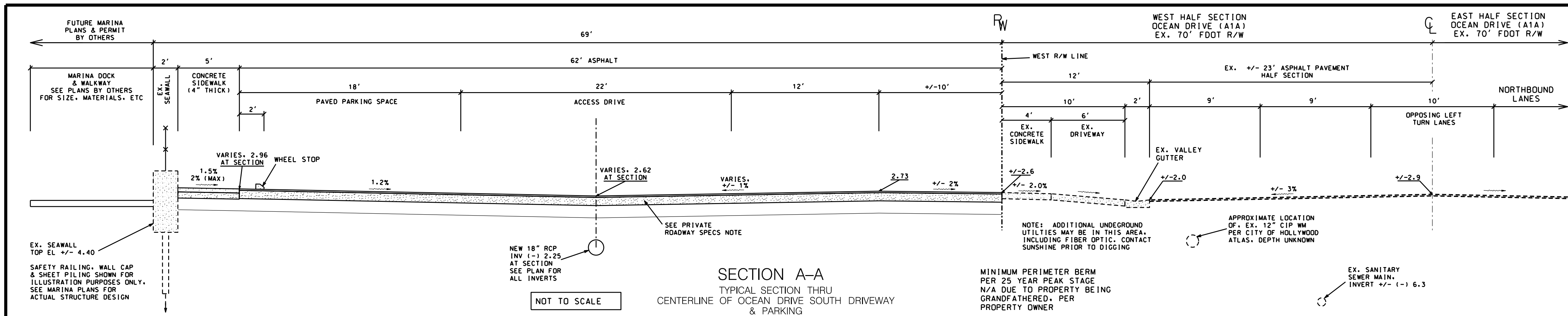
TITLE:  
**PAVEMENT MARKING  
 & CURB LOCATION PLAN**

SEAL: HOWARD JABLON, PE #47514

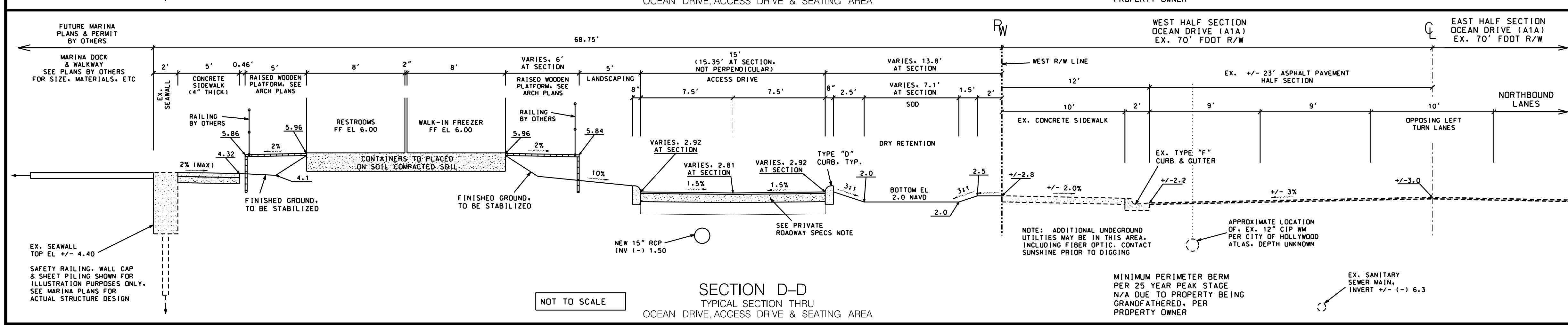
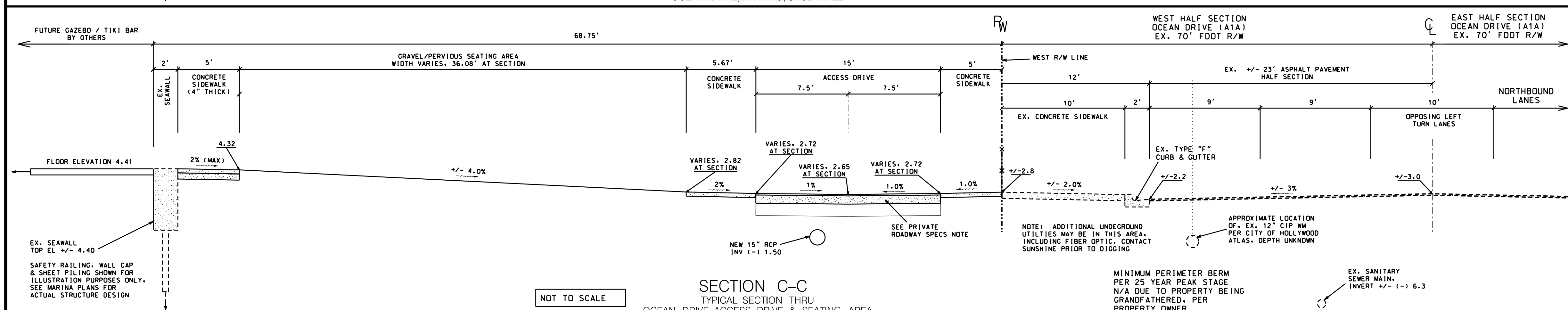
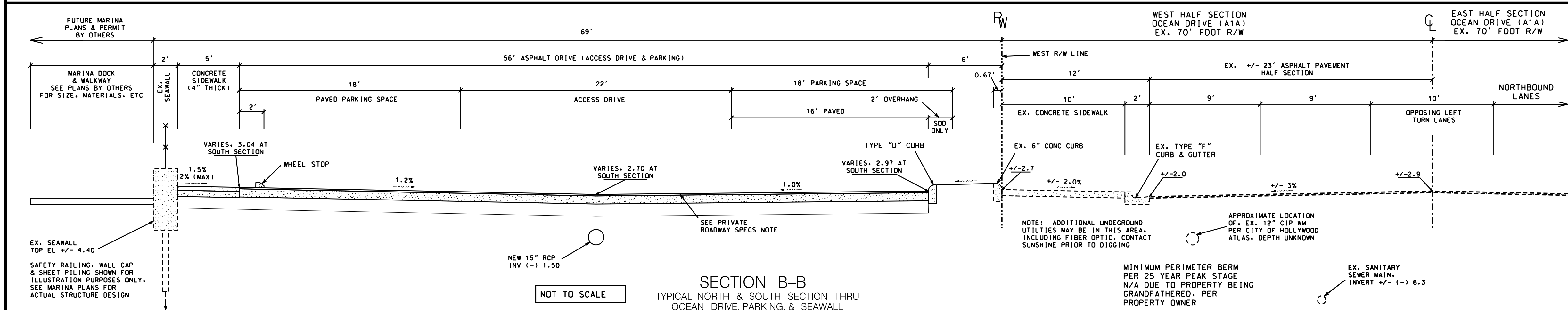
DATE: 10/25/22

DRAWING NO. 21-0100

SHEET NO. PD2 OF 7



- PRIVATE ROADWAY PAVING SPECS**
- PAVING COURSE: 1.5" TYPE "S3" ASPHALT (2 LIFTS) TACK COAT TO BE USED BETWEEN LIFTS
  - BASE COURSE: 8" LIMEROCK BASE (PRIMED) LBR 100, W/MINIMUM 70% CARBONATES.
  - SUBGRADE: 12" STABILIZED SUBGRADE (MINIMUM LBR 40)



**ELEVATION NOTES**

- ALL ELEVATIONS SHOWN ON THIS PLAN ARE BASED ON THE NAVD 88 DATUM.

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SCALE:	DATE	REVISIONS	DATE	REVISIONS
NA				
HEJ	09/15/23	UPDATE PER CITY SP RAI #2, BCSM RAI #1		
LJ	11/06/23	UPDATE TIKI RESTAURANT NOTE PER BCSM RAI #2		
HEJ	12/15/23	UPDATE SECTION G-G		

**AJ HYDRO  
ENGINEERING, INC.**  
5932 NW 73RD COURT  
PARKLAND, FL 33067  
TEL (954) 347-3397  
AJHYDRO@BELLSOUTH.NET

**PROJECT:**

# SKIPPERS DOCKSIDE

**TITLE:**

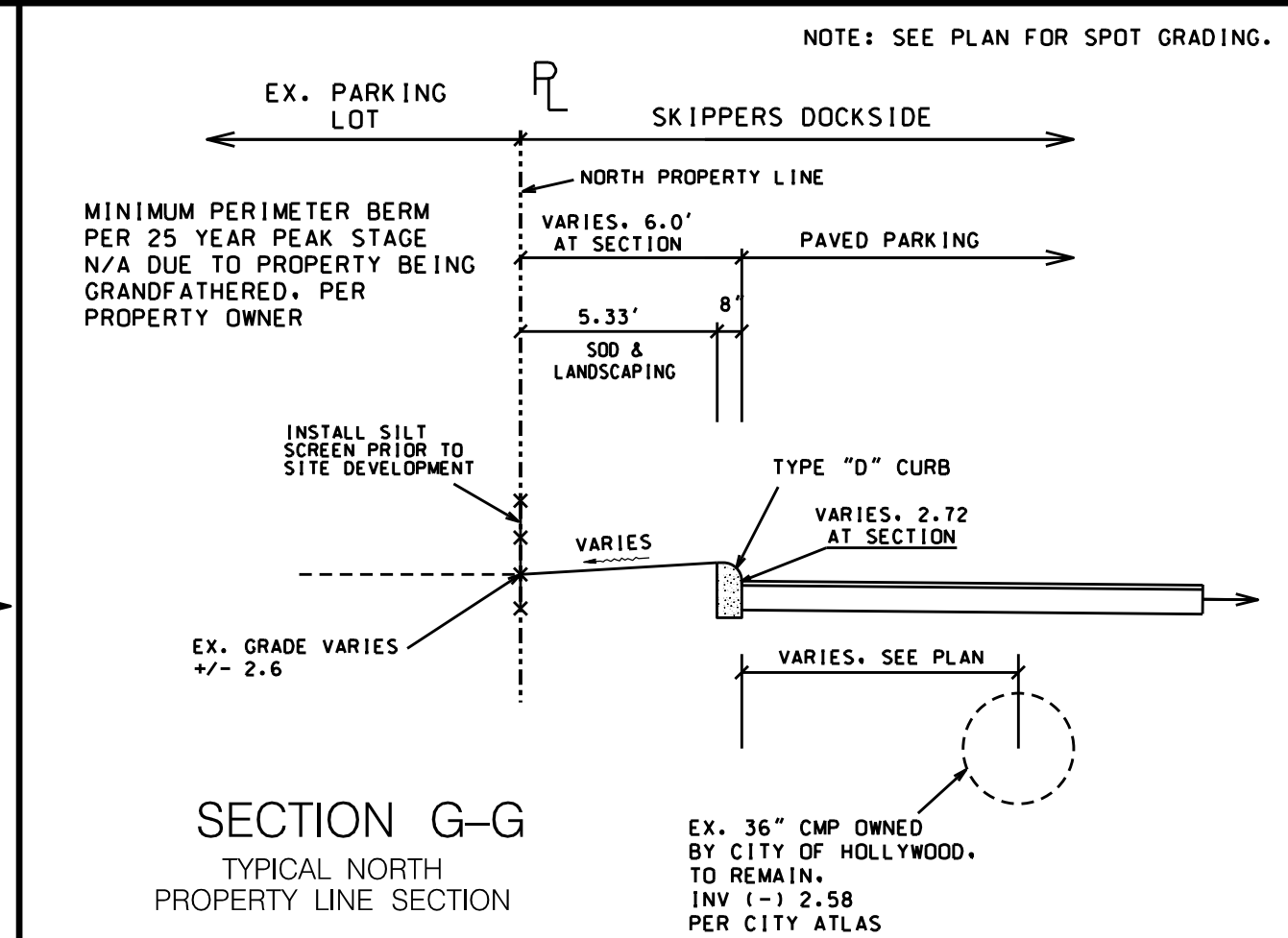
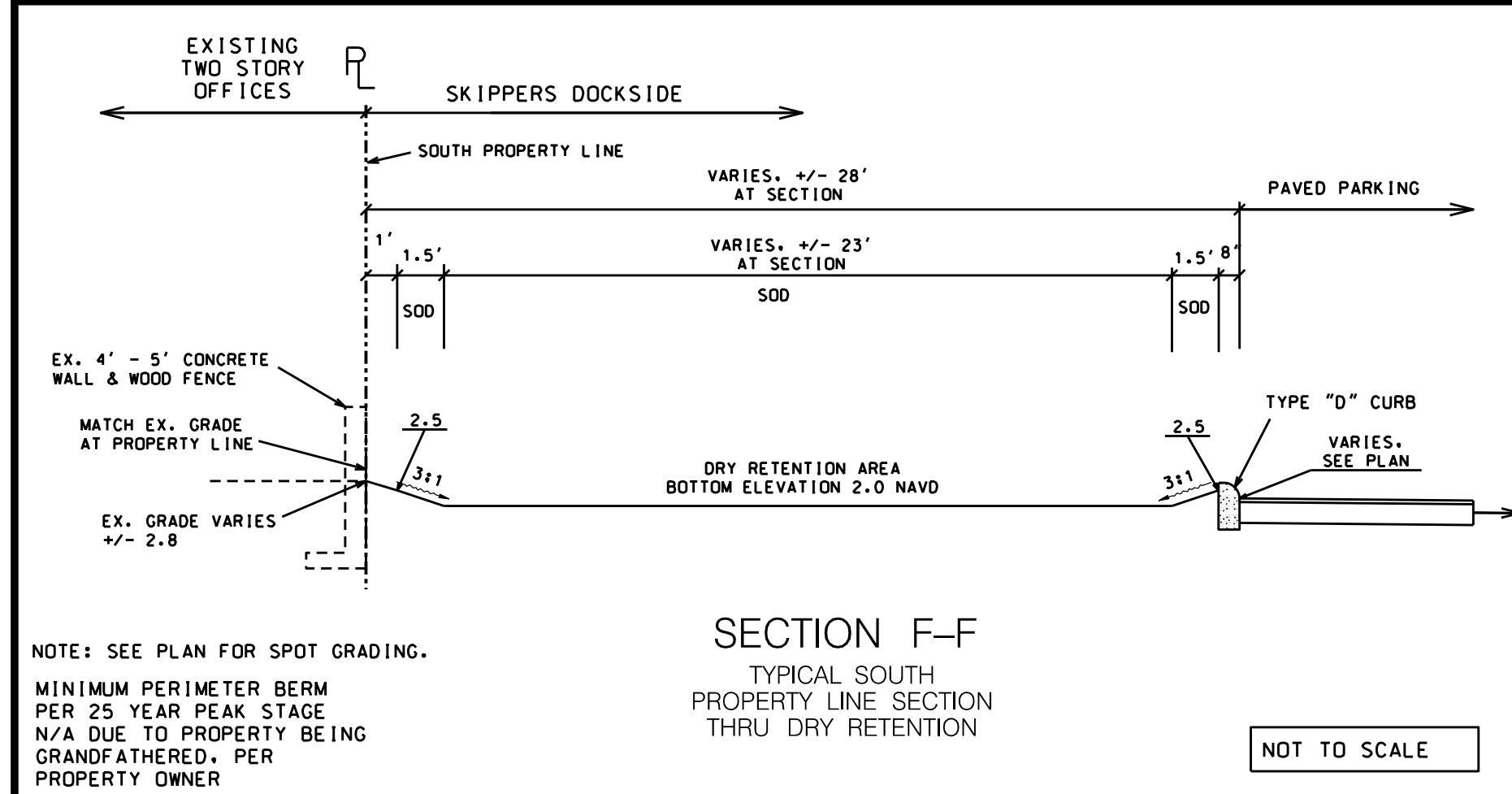
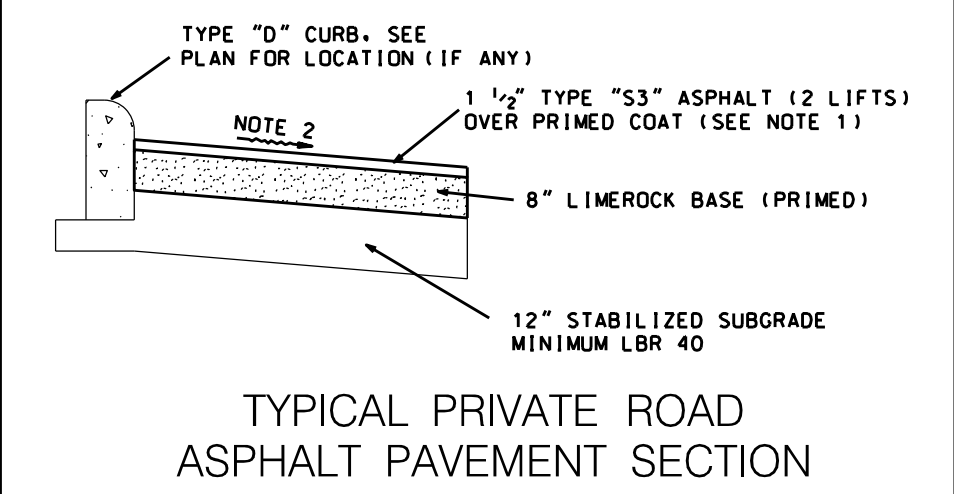
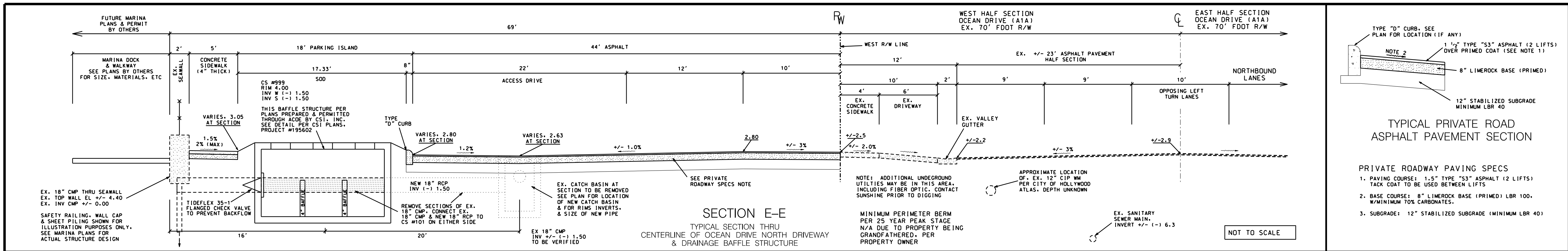
# PAVING & GRADING CROSS SECTIONS

**SEAL:**  
HOWARD JABLON, PE  
#47514

**DATE:**  
10/25/22

**DRAWING NO.:**  
21-0100

**SHEET NO.:**  
PD3 OF 7



**ELEVATION NOTES**

1. ALL ELEVATIONS SHOWN ON THIS PLAN ARE BASED ON THE NAVD 88 DATUM.

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SCALE:	DATE	REVISIONS	DATE	REVISIONS
NA				
DRAWN BY: HE.J	11/06/23	UPDATE CONTROL STRUCTURE TO CS #999 PER BCSM RAI #2		
CHECKED BY: L.J	02/20/24	UPDATE SECTION G-G		
APPROVED BY: HE.J				

AJ HYDRO  
ENGINEERING, INC.  
5932 NW 73RD COURT  
PARKLAND, FL 33067  
TEL (954) 347-3397  
AJHYDRO@BELLSOUTH.NET

PROJECT: **SKIPPERS DOCKSIDE**

TITLE: **PAVING & GRADING CROSS SECTIONS**

SEAL: HOWARD JABLON, PE #47514

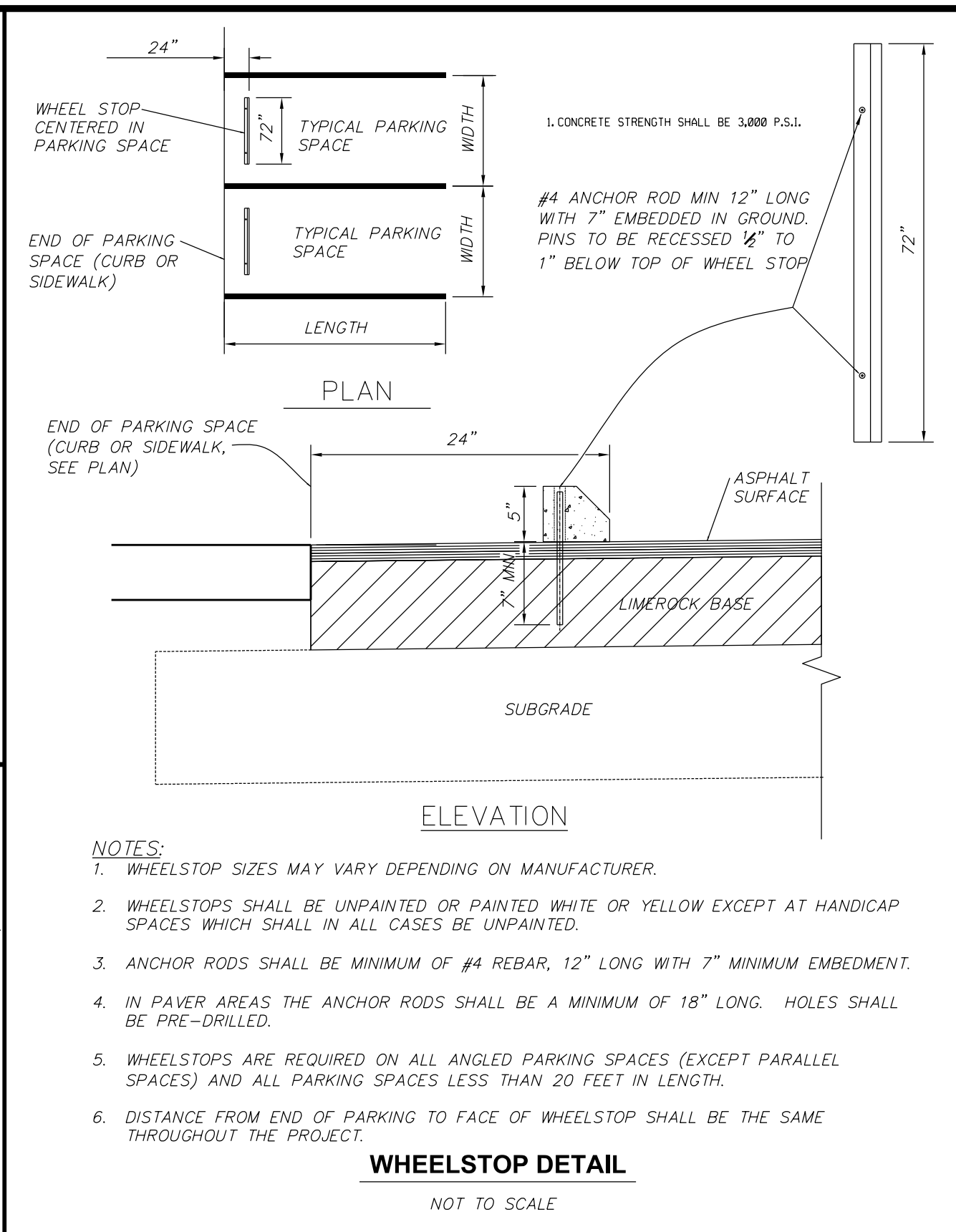
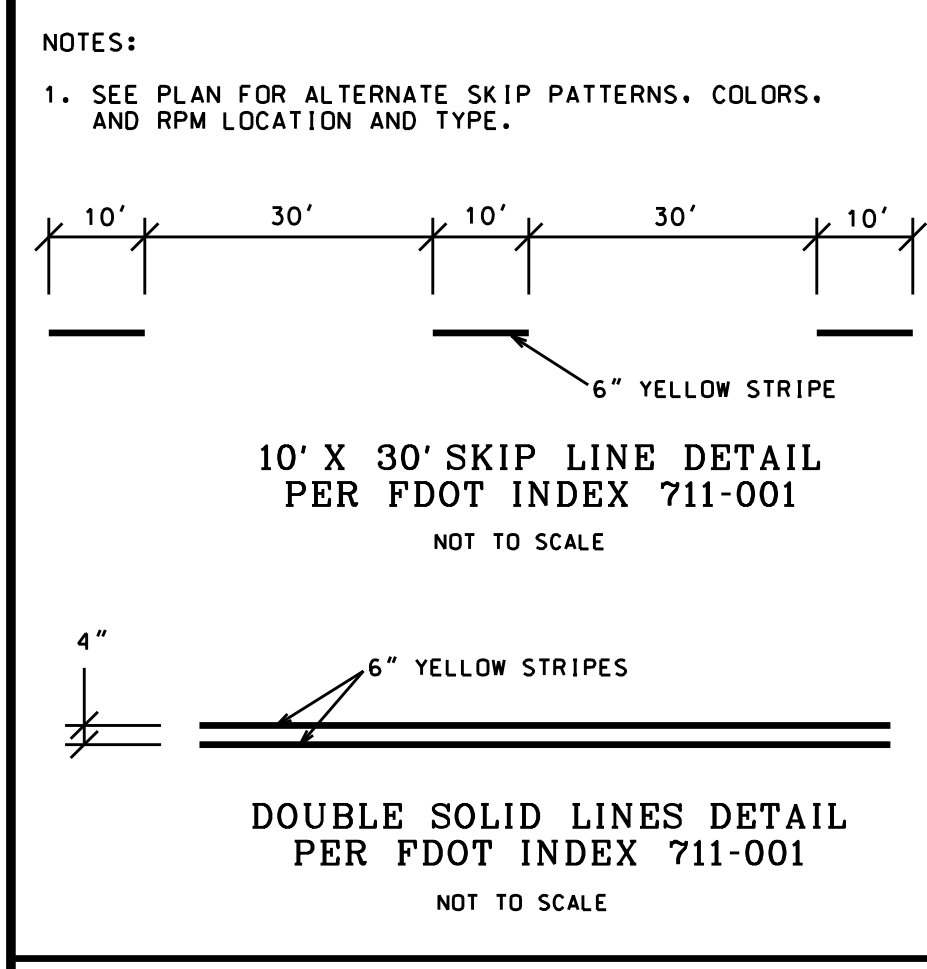
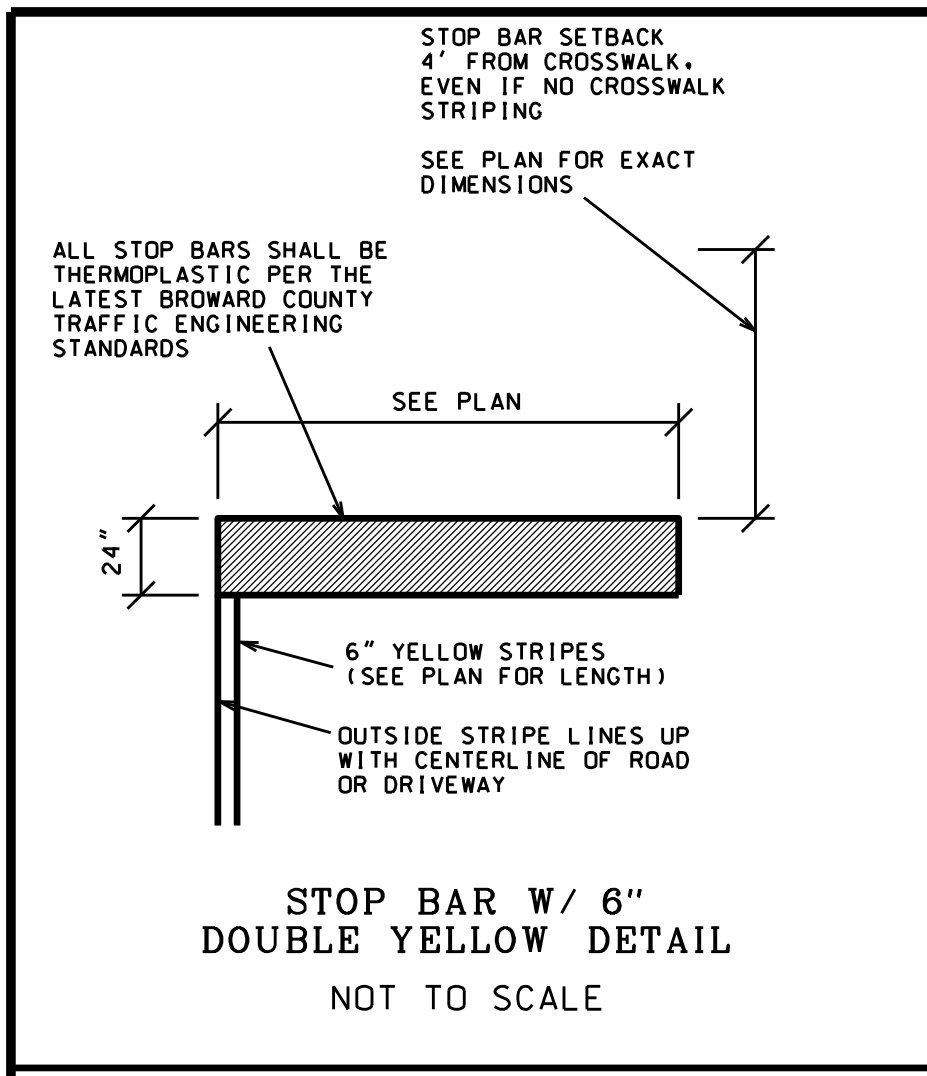
DATE: 10/25/22

DRAWING NO. 21-0100

SHEET NO. PD4 OF 7







**INSPECTIONS:**

THE CONTRACTOR SHALL NOTIFY THE CITY OF HOLLYWOOD AT LEAST 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION AND PRIOR TO THE INSPECTION OF THE FOLLOWING ITEMS:

- CLEARING & FILLING.
- STORM DRAINAGE LAMPING.
- SUBGRADE (DENSITY TESTS SHALL BE APPROVED PRIOR TO THE PLACEMENT OF LIMEROCK).
- LIMEROCK BASE (DENSITY TESTS AND AS-BUILTS MUST BE SUBMITTED WITH A CERTIFIED LETTER FROM THE ENGINEER OF RECORD INDICATING THEY CONFORM WITH THE APPROVED PLAN PRIOR TO THE PLACEMENT OF ASPHALT).
- ASPHALTIC CONCRETE.
- FINAL.
- THE CONTRACTOR SHALL NOTIFY THE CITY, COUNTY, AND THE ENGINEER OF RECORD AT LEAST 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION AND IN ADVANCE OF REQUIRED INSPECTIONS. TESTING & INSPECTIONS WILL BE REQUIRED FOR THE FOLLOWING TASKS:
  - STORM DRAINAGE (CITY)
  - WATER DISTRIBUTION SYSTEM (CITY)
  - SANITARY SEWER SYSTEM (CITY)
  - ROAD SUBGRADE (CITY)
  - FINISHED LIMEROCK BASE (CITY)
  - ASPHALTIC CONCRETE (CITY)
  - PIPE BACKFILL (CITY)
- ALL TESTING WILL BE WITNESSED BY THE CITY OF HOLLYWOOD. THE ENGINEER OF RECORD WILL PROVIDE CONSTRUCTION OBSERVATION SERVICES AND COPY REPORTS TO THE CITY ENGINEER ON A BI-WEEKLY BASIS. FINAL SITE GRADING WORK SHALL BE INSPECTED BY THE ENGINEER OF RECORD. EMERGENCY SITUATIONS AND CHANGE OF PLANS SHALL BE REPORTED AT THE TIME OF EACH OCCURRENCE.

**PAVING & DRAINAGE RECORD DRAWING REQUIREMENTS:**

- GRADING & DRAINAGE AS-BUILT DRAWINGS AND DIGITAL FILES SHALL BE SUBMITTED TO THE CITY & BC ELPD AFTER COMPLETION OF THE PROJECT. AS-BUILT DRAWINGS SHALL CONSIST OF:
  - FOUR (4) COMPLETED, FULL SETS OF PRINTS, SIGNED & SEALED.
  - ONE (1) FULL COMPLETED, SETS OF MYLARS.
- AS-BUILT INFORMATION SHALL INCLUDE:
  - RIMS, INVERTS, PIPE LENGTH, & MATERIAL FOR ALL DRAINAGE STRUCTURES.
  - ELEVATION OF TOP OF ROCK AT ALL CRITICAL POINTS AND A MINIMUM OF EVERY 50' OC.

**DRAINAGE INSPECTION NOTES:**

- UPON COMPLETION OF CONSTRUCTION AND PRIOR TO MOUNTING OF THE BAFFLES (IF ANY), CONTRACTOR TO PERFORM A DRAINAGE LAMPING OF SITE.
- LAMPING INSPECTION MUST BE SCHEDULED WITH THE CITY ENGINEERING DEPARTMENT, AND THE ENGINEER OF RECORD.

**DENSITY REQUIREMENTS FOR UTILITY AND DRAINAGE BACKFILL**

- THE CITY OF HOLLYWOOD MUST BE NOTIFIED PRIOR TO DENSITY TEST BEING PERFORMED. THE CITY OF HOLLYWOOD WILL OBSERVE ALL REQUIRED DENSITY TESTS.
- BACKFILL SHALL BE COMPACTED IMMEDIATELY FOLLOWING UTILITY INSTALLATION TO 98% MAXIMUM DENSITY AS AS DETERMINED BY AASHTO T-180.
- DENSITY TESTS ON THE SANITARY & STORM SEWER SHALL BE TAKEN IN 12" LIFTS WITH A MINIMUM OF 1 TEST FOR A RUN OF LESS THAN 200' & 2 FOR RUNS IN EXCESS OF 200 FEET. TESTS SHALL ALSO BE TAKEN AT EACH STRUCTURE AT THE DISGRESSION OF THE RECORD AND/OR GEOTECHNICAL ENGINEER.
- DENSITY TESTS ON THE WATER MAIN SHALL BE TAKEN FOR EACH 12" LIFT & AT A MAXIMUM INTERVAL OF 110'.
- ALL DENSITY TESTS SHALL BE TAKEN BY A CERTIFIED TESTING LABORATORY. TESTS SHALL BE CONDUCTED UNDER THE DIRECTION OF THE CITY OF HOLLYWOOD, RECORD ENGINEER AND/OR GEOTECHNICAL ENGINEER.

**EARTHWORK NOTES**

- REFER TO THE GEOTECHNICAL REPORT PREPARED BY SOILPREP ENGINEERING & TESTING DATED APRIL 30, 2019.
- ALL ORGANIC AND DELETERIOUS MATERIALS SHALL BE REMOVED FROM ANY ROADWAY, BUILDING PAD, DRAINAGE, AND UTILITY EASEMENT AND REPLACED WITH CLEAN FILL.
- PRIOR TO COMPLETION OF THE EARTHWORK, A REGISTERED GEOTECHNICAL ENGINEER SHALL CERTIFY TO THE PROPER REMOVAL OF UNSUITABLE MATERIALS AND PROPER BACKFILLING AND DENSITY OF NEW MATERIAL.

**DRAINAGE NOTES**

- LENGTH OF DRAINAGE PIPE IS MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
- THE STORM STRUCTURE MANUFACTURER SHALL DETERMINE THE SIZE AND SHAPE OF ALL STRUCTURES TO ACCOMMODATE THE INCOMING STORM SEWERS. ALL STRUCTURES MUST MEET THE MINIMUM FDOT REQUIREMENTS. SEE PAVING & DRAINAGE NOTES.

**GENERAL PAVING, GRADING, & DRAINAGE NOTES**

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST FLORIDA D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION WITH THE STANDARD SPECIFICATIONS OF THE CITY/COUNTY HAVING JURISDICTION AND WITH BROWARD COUNTY ENGINEERING DIVISION "MINIMUM STANDARDS".
- ALL APPLICABLE CITY/COUNTY PERMITS MUST BE OBTAINED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL WORK SHALL BE DONE IN A GOOD WORKMANLIKE MANNER. MATERIAL INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- SHOP DRAWINGS OF ALL MATERIALS BEING USED SHALL BE SUBMITTED TO THE ENGINEER OF RECORD AND THE CITY AND/OR COUNTY FOR APPROVAL PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY THE CITY AND/OR COUNTY AND THE ENGINEER OF RECORD A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK IN THE RIGHT OF WAY.
- CONTRACTOR TO BE TOTALLY RESPONSIBLE FOR MAINTENANCE OF TRAFFIC AND SAFETY OF MOTORISTS AND PEDESTRIANS USING THIS SITE. ADJACENT STREET, ROADWAYS AND WATERWAYS DURING CONSTRUCTION. MAINTENANCE AND SAFETY PROCEDURES SHALL CONFORM TO M.U.T.C.D. CONTRACTOR TO PROVIDE M.O.T. PLAN TO AGENCY HAVING JURISDICTION PRIOR TO PRECONSTRUCTION MEETING.
- SEE PLAN SHEET FOR VERTICAL DATUM INFORMATION.
- THE EXISTING ELEVATIONS SHOWN ARE FOR THE PURPOSE OF INDICATING THE APPROXIMATE GROUND ELEVATION AT THE LOCATION SHOWN AND IN NO WAY REFLECT SURFACE CONDITIONS OR SUBSURFACE SOIL CONDITIONS.
- THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THE APPROVED PLANS ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CITY ENGINEER AND THE ENGINEER OF RECORD, AT NO TIME IS THE CONTRACTOR TO TAMPER WITH EXISTING UTILITIES, EXCEPT AS NOTED ON THE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE, AT ALL TIMES THROUGHOUT THE DURATION OF CONSTRUCTION, FOR THE PROTECTION OF EXISTING AND NEWLY INSTALLED UTILITIES FROM DAMAGE OR DISRUPTION OF SERVICE.
- ALL MUCK, YIELDING, & DELETERIOUS MATERIAL WITHIN ROAD RIGHT OF WAYS, PAVED AREAS, SIDEWALK, BUILDING PADS, DRAINAGE AND UTILITY TRENCHES SHALL BE REMOVED COMPLETELY AND REPLACED WITH CLEAN FILL MATERIAL IN 8" LAYERS COMPACTED TO 100% MAXIMUM DENSITY AS DETERMINED BY A.A.S.H.T.O. T-99C.
- BACKFILL AND BEDDING MATERIAL SHALL BE NON-COHESIVE AND NON-PLASTIC, FREE OF DEBRIS, LUMPS, CLODS, WOOD, BROKEN PAVEMENT OR ANY ORGANIC OR UNSTABLE MATERIAL. NO ROCKS LARGER THAN 6" SHALL BE PERMITTED AS BACKFILL OR BEDDING.
- RECORD DRAWINGS, CERTIFIED BY A PROFESSIONAL SURVEYOR REGISTERED IN THE STATE OF FLORIDA, SHALL BE SUBMITTED TO THE ENGINEER OF RECORD, CITY ENGINEER, AND COUNTY ENGINEER PRIOR TO FINAL ACCEPTANCE OF THE SYSTEM.
- CONTRACTOR SHALL CONTACT SUNSHINE ONE CALL (1-800-432-4770) & ALL OTHER UTILITY COMPANIES PRIOR TO CONSTRUCTION. SUNSHINE REGISTRATION NUMBER MUST BE SHOWN ON DRAWINGS PRIOR TO START OF CONSTRUCTION IN RIGHT-OF-WAY AND PRIOR TO PERMIT ISSUANCE BY CITY. CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL EXISTING UTILITIES & SHALL REPAIR DAMAGED UTILITIES AT HIS EXPENSE.
- TURBIDITY BARRIERS MUST BE INSTALLED AT ALL OUTFALL LOCATIONS PRIOR TO PIPE CONNECTION TO RECEIVING WATERS. TURBIDITY BARRIERS MUST REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETED, SOILS ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED.
- A PRE-CONSTRUCTION MEETING WILL BE REQUIRED WITH THE CITY, THE RECORD ENGINEER, THE CONTRACTOR, & OTHER AGENCIES WITH JURISDICTION IN ATTENDANCE.

**TREE PRESERVATION/CLEARING NOTES**

- PRIOR TO ANY TREE REMOVAL OR CLEARING, CONTRACTOR SHALL REFER TO APPROVED LANDSCAPE OR TREE DISPOSITION PLAN PREPARED BY OTHERS REGARDING TREE PRESERVATION, RELOCATION, ETC.
- EXISTING TREES ON SITE NOT SHOWN ON CIVIL ENGINEERING PLANS PREPARED BY A. J. HYDRO ENGINEERING, INC.
- CONTRACTOR SHALL APPLY FOR ANY CLEARING, TREE REMOVAL, RELOCATION, AND/OR TREE PRESERVATION PERMITS, AND ANY OTHER PERMITS AS REQUIRED BY THE CITY OF HOLLYWOOD PRIOR TO COMMENCING CONSTRUCTION.

**PAVING, GRADING, & DRAINAGE NOTES**

- ASPHALT PAVEMENT SHALL CONFORM TO APPLICABLE PARTS OF SECTION 300-339, AS DESCRIBED IN FLORIDA D.O.T. STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION. ASPHALT SHALL BE TYPE S-3, UNLESS OTHERWISE NOTED.
  - LIMEROCK BASE CONSTRUCTION SHALL CONFORM TO APPLICABLE PARTS OF SECTION 200-230, AS DESCRIBED IN THE FLORIDA D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. BASE COURSE SHALL BE COMPACTED TO A DENSITY NOT LESS THAN 98% OF THE MAXIMUM DENSITY AS DETERMINED BY A.A.S.H.T.O. T-180, AND HAVE A MINIMUM L.B.R. OF 100. PRIME COAT APPLICATION RATE AT 0.10 GAL/S.Y.
  - COMPACTED SUBGRADE CONSTRUCTION SHALL CONFORM TO APPLICABLE PARTS OF SECTION 120, AS DESCRIBED IN FLORIDA D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. COMPACTED SUBGRADE SHALL BE COMPACTED TO 100% MAXIMUM DENSITY AS DETERMINED BY A.A.S.H.T.O. T-99C.
  - PROCTOR TESTS FOR SUBGRADE AND BASE MATERIALS SHALL BE SUPPLIED BY THE DEVELOPER PRIOR TO SCHEDULED DENSITY TESTS. DENSITY TESTS SHALL BE TAKEN A MINIMUM OF ONE PER 500 SQUARE YARDS. THE DEVELOPER SHALL PAY FOR ALL TESTING IF THE REQUIRED DENSITY IS ACHIEVED. THE CONTRACTOR SHALL BE LIABLE FOR ALL RETESTS FOR ANY FAILURES. TEST LOCATIONS SHALL BE DETERMINED BY THE CITY OF FORT LAUDERDALE ENGINEERING DEPARTMENT AND/OR THE "ENGINEER OF RECORD." BASE/ASPHALT CONSTRUCTION SHALL NOT COMMENCE UNTIL SATISFACTORY DENSITY TESTS HAVE BEEN REVIEWED BY THE CITY ENGINEER AND THE "ENGINEER OF RECORD."
  - ALL UNDERGROUND UTILITIES SITUATED IN PAVED AREAS, INCLUDING BUT NOT LIMITED TO, SEWER AND WATER MAINS, GAS MAINS, ELECTRICAL DISTRIBUTION, TELEPHONE, ETC., SHALL BE COMPLETED AND APPROVED BEFORE ANY SUBGRADE WORK COMMENCES.
  - CONCRETE FOR CURBS, GUTTERS, DRAINAGE INLETS, SIDEWALKS, ETC., SHALL BE CLASS 1, IN ACCORDANCE WITH FLORIDA D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 345. FOR CURB & GUTTER & VALLEY GUTTER PROVIDE 1/4"-1/4" CONTRACTION JOINTS AT 10' CENTERS. CONCRETE SHALL BE 3,000 PSI.
  - PAVEMENT MARKINGS AND SIGNAGE SHALL CONFORM TO THE FLORIDA D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND WITH THE CITY & COUNTY, AND SHALL BE REFLECTORIZED THERMOPLASTIC.
  - RADIUS REFER TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
  - REFER TO CALCULATION SHEETS FOR SITE GEOMETRY.
  - MATERIALS AND WORKMANSHIP IN CITY/COUNTY RIGHT-OF-WAYS SHALL MEET THE REQUIREMENTS OF THE CITY OF HOLLYWOOD & BROWARD COUNTY MINIMUM STANDARDS.
  - NO ASPHALT SHALL BE PLACED IN CITY/COUNTY RIGHT-OF-WAYS UNTIL CERTIFIED AS-BUILTS OF THE FINISHED ROCK BASE HAVE BEEN SUBMITTED TO AND APPROVED BY THE RECORD ENGINEER & THE CITY OR COUNTY HAVING JURISDICTION.
  - LIMEROCK SHALL BE MIAMI LIMEROCK HAVING A MINIMUM 70% OF CARBONATES IN CITY RIGHT OF WAYS. 8 70% OF CARBONATES IN COUNTY RIGHT OF WAYS. LIQUID LIMIT LESS THAN 35. PLASTICITY INDEX LESS THAN 6 AND LBR 100.
  - ALL DRAINAGE PIPE SHALL BE REINFORCED CONCRETE PIPE UNLESS OTHERWISE NOTED.
  - ALL TRENCHING, PIPE LAYING, BACKFILL, LAMPING, ETC. MUST BE IN CONFORMANCE WITH THE CITY OF HOLLYWOOD & BROWARD COUNTY MINIMUM STANDARDS. ADDITIONALLY, ALL PIPE MUST BE BACKFILLED IN NO GREATER THAN 12" LIFTS AND EACH LIFT TAMPED & DENSITY TESTED, UNLESS OTHERWISE APPROVED BY THE RECORD ENGINEER AND THE AGENCY HAVING JURISDICTION.
  - AS-BUILT PIPE INVERTS AND ROADWAY GRADING WILL BE STRICTLY ENFORCED.
  - PRECAST CONCRETE MANHOLES/INLETS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-478-70, LATEST REVISIONS. ALL PRE-CAST MANHOLES/INLETS SHALL BEAR THE STAMP OF A CERTIFIED ENGINEERING TESTING LABORATORY, SIGNED AND DATED, CERTIFYING THAT THEY MEET THE REQUIREMENTS OF ASTM C-478 FOR CONCRETE STRENGTH, STEEL REINFORCEMENT AREA AND PLACEMENT, AND APPEARANCE WHEN MANUFACTURED. MANHOLES/INLETS MUST BE INSPECTED BY THE CITY OF HOLLYWOOD BEFORE UNLOADING.
  - CONCRETE FOR PRECAST MANHOLES/INLETS OR CAST IN PLACE MANHOLES/INLETS SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4000 P.S.I. AT 28 DAYS.
  - MINIMUM WALL AND BASE THICKNESS FOR PRECAST MANHOLES SHALL BE 8 INCHES.
  - REINFORCING STEEL FOR MANHOLES/INLETS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-615 AND A-305, LATEST REVISION. SPLICES SHALL HAVE A MINIMUM LAP OF 24 BAR DIAMETERS. MINIMUM COVER OVER REINFORCING STEEL SHALL BE 3 INCHES.
  - ALL OPENINGS IN PRECAST MANHOLES/INLETS SHALL BE CAST AT TIME OF MANUFACTURE.
  - PRECAST MANHOLE/INLET SHOP DRAWINGS SHALL BE SUBMITTED TO THE RECORD ENGINEER & THE CITY OF HOLLYWOOD FOR APPROVAL PRIOR TO FABRICATION.
  - MANHOLE/INLET LIDS SHALL BE CAPABLE OF WITHSTANDING AASHTO H-20 LOADING.
  - IN ACCORDANCE WITH FLORIDA STATUTE 90-096 FS, KNOWN AS "THE FLORIDA TRENCH SAFETY ACT," CONTRACT BID DOCUMENTS MUST IDENTIFY ALL COSTS AND METHOD OF TRENCH EXCAVATIONS EXCEEDING (5) FIVE FEET IN DEPTH.
- THE CONTRACTOR IS RESPONSIBLE THAT ALL SHEETING AND SHORING INSTALLED COMPLY WITH OSHA EXCAVATION STANDARDS 29 C.F.R. 1926:650 SUBPART P. THE CONTRACTOR MUST EVALUATE GEOTECHNICAL DATA AND DESIGN THE TRENCH SAFETY SYSTEM ACCORDINGLY.
- THE CONTRACTOR MUST SUBMIT A LETTER, TO THE ENGINEER, ACKNOWLEDGING THAT HE HAS COMPLIED WITH THE FORGOING PRIOR TO CONSTRUCTION.
- R1-1 AND D3 SIGNS SHALL BE HIGH INTENSITY REFLECTORIZED SHEETING.

48 HOURS BEFORE DIGGING  
CALL SUNSHINE  
TOLL FREE  
1-800-432-4770  
UNDERGROUND UTILITIES NOTIFICATION  
CENTER OF FLORIDA

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SCALE: NA	DATE	REVISIONS	COMMENTS	DATE	REVISIONS	COMMENTS
DRAWN BY: HEJ	2					
CHECKED BY: LJ						
APPROVED BY: HEJ						

AJ HYDRO  
ENGINEERING, INC.  
5932 NW 73RD COURT  
PARKLAND, FL 33067  
TEL (954) 347-3397  
AJHYDRO@BELLSOUTH.NET

PROJECT: **SKIPPERS DOCKSIDE**

TITLE: **PAVING, GRADING, & DRAINAGE DETAILS & NOTES**

SEAL: **HOWARD JABLON, PE #47514**

DATE: **10/25/22**

DRAWING NO. **21-0100**

SHEET NO. **PD6 OF 7**

**GENERAL NOTES:**

1. THE INFORMATION PROVIDED IN THESE DRAWINGS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE NECESSARY FIELD SURVEY DATA AND FOR VERIFYING THE ACCURACY OF THE INFORMATION PROVIDED IN THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY FIELD SURVEY DATA AND FOR VERIFYING THE ACCURACY OF THE INFORMATION PROVIDED IN THESE DRAWINGS.
2. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO APPLICABLE SPECIFICATIONS AND REQUIREMENTS OF THE CITY OF HOLLYWOOD DEPARTMENT OF DEVELOPMENT SERVICES, ENGINEERING, TRANSPORTATION & MOBILITY DIVISION, AND ALL OTHER LOCAL, STATE AND FEDERAL CODES, WHERE APPLICABLE.
3. LOCATIONS, ELEVATIONS, SIZES, MATERIALS, ADJUSTMENTS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE PLANS AND DO NOT WARRANT TO BE ABSOLUTELY CORRECT. ALSO, THERE MAY HAVE BEEN OTHER IMPROVEMENTS, UTILITIES, ETC., WITHIN THE PROJECT AREA WHICH WERE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL VERIFY THE ORIGINAL SITE SURVEY AND THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, AND OTHER FEATURES AFFECTING HIS/HER WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY FIELD SURVEY DATA AND FOR VERIFYING THE ACCURACY OF THE INFORMATION PROVIDED IN THESE DRAWINGS.
4. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL APPLICABLE CONSTRUCTION AND ENVIRONMENTAL PERMITS PRIOR TO THE START OF CONSTRUCTION.
5. THE CONTRACTOR SHALL NOTIFY PUBLIC UTILITIES AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
6. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND INSTALLATION OF THE PROPOSED IMPROVEMENTS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY OTHER NECESSARY PERMITTING APPROVALS, IF REQUIRED.
7. ELEVATIONS SHALL BE IN FEET AND REFERENCED TO THE NORTH AMERICAN DATUM OF 1988 (NAD 83).
8. CITY OF HOLLYWOOD SHALL NOT PROVIDE STAGING/STORAGE AREA. CONTRACTOR SHALL SECURE STAGING/STORAGE AREA AS NECESSARY FOR CONSTRUCTION WORK.
9. CONTRACTOR SHALL MAINTAIN ANY EXCESSIVE STOCKPILE OF SOIL FOR DISPOSAL EVERY DAY. NO STOCKPILE SOIL IS ALLOWED TO BE LEFT ON THE CONSTRUCTION SITE OVER NIGHT.
10. CONTRACTOR SHALL CLEAN/WEED THE ROAD AT LEAST ONCE A DAY OR AS REQUIRED BY THE ENGINEER.
11. CONTRACTOR SHALL PROTECT CATCH BASINS WITHIN/ADJACENT TO THE CONSTRUCTION SITE AS REQUIRED BY AFD'S REGULATIONS.
12. CITY OF HOLLYWOOD HAS A NOISE ORDINANCE (CHAPTER 100) WHICH PROHIBITS EXCAVATION AND CONSTRUCTION BEFORE 6:00 A.M. AND AFTER 6:00 P.M. WEEKDAYS THROUGH SATURDAY AND ALL DAY SUNDAY.
13. SURFACE EXCAVATED MATERIAL SHALL BE USED IN FILL AREAS. NO SEPARATE PAY ITEM FOR THIS WORK, UNLESS NOTED IN OTHER ITEMS.
14. THE CONTRACTOR SHALL REPLACE ALL EXISTING STABILIZED SOILS, DRAINAGES, PARKING LOTS, SIDEWALKS, ETC., TO SATISFY THE REQUIREMENTS OF THE PROPOSED IMPROVEMENTS WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION.
15. THE CONTRACTOR SHALL NOT ENCROACH INTO PRIVATE PROPERTY WITH PERSONNEL, MATERIAL, OR EQUIPMENT IN CASE WORK ON PRIVATE PROPERTY IS REQUIRED. A CITY OF HOLLYWOOD "TRUCK OF ENTRY" FORM MUST BE SIGNED BY PROPERTY OWNER AND THE DIRECTOR OF DEVELOPMENT SERVICES. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN ACCESS TO ALL TRAFFIC TO PROHIBIT.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE, REMOVAL OR MODIFICATION, CAUSED TO ANY EXISTING SYSTEM (DRAINAGE, FLOOD CONTROL, IRRIGATION, ETC.) DURING THE CONSTRUCTION. THE CONTRACTOR SHALL REPLACE ANY DAMAGED, REMOVED OR MODIFIED IRRIGATION PIPES, SPRINKLER HEADS OR OTHER PERTINENT APPROXIMATIONS TO MATCH OR EXCEED EXISTING CONDITIONS OR AS ADDITIONAL COST TO THE CITY.
17. MAIL BOXES, TRENCHES OR OTHER PRIVATE PROPERTY DAMAGED DURING THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE REPLACED TO MATCH OR EXCEED EXISTING CONDITIONS.

ISSUED: MAY 2023 DEPARTMENT OF DEVELOPMENT SERVICES ENGINEERING, TRANSPORTATION & MOBILITY DIVISION REVISION: -  
 DRAWN: EG GENERAL NOTES (1 OF 2) DRAWING NO.: C-01  
 APPROVED: JG

**GENERAL NOTES:**

18. CONTRACTOR SHALL PROVIDE MAINTENANCE OF TRAFFIC IN ACCORDANCE WITH ROAD STANDARDS PLANS INDEX, LATEST EDITION, AND CITY OF HOLLYWOOD DEPARTMENT OF DEVELOPMENT SERVICES DRAWINGS.
19. NO TREES ARE TO BE REMOVED OR RELOCATED WITHOUT PRIOR APPROVAL FROM THE CITY ENGINEER.
20. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE NECESSARY FIELD SURVEY DATA AND FOR VERIFYING THE ACCURACY OF THE INFORMATION PROVIDED IN THESE DRAWINGS.
21. IF THE INTENT OF THESE PLANS IS TO BE IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION, ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE REGULATORY STANDARDS/REQUIREMENTS SHALL BE IMMEDIATELY REPORTED TO THE ATTENTION OF THE CITY ENGINEER.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE PRESENCE OF AND MARKING THE REMAINS TO EXISTING PAVEMENT, SIDEWALKS, CURBS, GUTTERS, ETC., WHETHER OR NOT DRAWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY FIELD SURVEY DATA AND FOR VERIFYING THE ACCURACY OF THE INFORMATION PROVIDED IN THESE DRAWINGS.
23. WHERE NEW PAVEMENT WITH EXISTING CONDITIONS SHALL BE MADE IN A "HOT" STRAIGHT LINE AND FLUSH WITH EXISTING PAVEMENT TO MATCH EXISTING CONDITIONS.
24. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR LEAVE EXCAVATED TRENCHES OR BARRIERS EXPOSED OR OPENED AT THE END OF THE WORKING DAY. MEDICANS, HOUSERS OR OTHER BARRIERS WHEN THE CONTRACTOR IS NOT WORKING SHALL BE MAINTAINED THROUGHOUT THE PERIOD OF CONSTRUCTION.
25. ALL EXCAVATED MATERIAL REMOVED FROM THIS PROJECT SHALL BE DEPOSITED OFF THE PROPERTY BY THE CONTRACTOR AT HIS/HER OWNERS RISK AND LIABILITY.
26. ALL EXCAVATED MATERIAL REMOVED FROM THIS PROJECT SHALL BE DEPOSITED OFF THE PROPERTY BY THE CONTRACTOR AT HIS/HER OWNERS RISK AND LIABILITY.
27. ALL GRASSED AREAS AFFECTED BY CONSTRUCTION SHALL BE RE-SEEDING.
28. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH SPECIFICATIONS OF THE LATEST EDITION OF ROAD STANDARDS PLANS, INDEX, LATEST EDITION, AND CITY OF HOLLYWOOD DEPARTMENT OF DEVELOPMENT SERVICES DRAWINGS.
29. TEMPORARY PATCH MATERIAL MUST BE ON THE JOB SITE WHEN PAVEMENT PAVING IS OUT, OR THE CITY'S INSPECTOR WILL SHUT THE JOB DOWN.
30. CONTRACTOR MUST PROVIDE FLASHER ARROW SIGNALS FOR ANY LANE THAT IS CLOSED OR LIMITED.
31. THE CITY ENGINEER SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH SPECIFICATIONS OF THE LATEST EDITION OF ROAD STANDARDS PLANS, INDEX, LATEST EDITION, AND CITY OF HOLLYWOOD DEPARTMENT OF DEVELOPMENT SERVICES DRAWINGS.
32. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL TRAFFIC TO PROHIBIT.
33. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL TRAFFIC TO PROHIBIT.
34. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL TRAFFIC TO PROHIBIT.
35. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL TRAFFIC TO PROHIBIT.

**Sunshine 811**

ISSUED: MAY 2023 DEPARTMENT OF DEVELOPMENT SERVICES ENGINEERING, TRANSPORTATION & MOBILITY DIVISION REVISION: -  
 DRAWN: EG GENERAL NOTES (2 OF 2) DRAWING NO.: C-02  
 APPROVED: JG

**STANDARD PROCEDURE FOR ROW PERMITS:**

1. ENGINEERING DIVISION WILL NOT ISSUE ROW PERMITS UNTIL THE UTILITY COMPANY SCHEDULES AND ATTENDS A PRE-CONSTRUCTION MEETING.
2. A REPRESENTATIVE FROM THE UTILITY COMPANY MUST ATTEND THE PRE-CONSTRUCTION MEETING, ALONG WITH THE CONTRACTOR AND/OR SUB-CONTRACTOR ACTUALLY PERFORMING THE WORK. CONTACT INFORMATION FOR THE UTILITY COMPANY REPRESENTATIVE AND THE CONTRACTOR PERFORMING THE WORK MUST BE PROVIDED FOR EACH PROJECT DURING THE PRE-CONSTRUCTION MEETING.
3. PERMITS WILL BE ISSUED FOR A DEFINED PERIOD OF TIME, AND ARE ONLY VALID DURING THE SPECIFIED TIME PERIOD. THE PERMIT DURATION WILL BE DETERMINED DURING PLAN REVIEW AND WILL BE BASED ON THE SCOPE OF WORK. THE PERMIT WILL ONLY BE VALID DURING THE PERIOD STATED ON THE APPROVED PLANS.
4. WORK CROSSING OF THE CITY'S CRITICAL OPERATIONAL INFRASTRUCTURE, WHICH IS GENERALLY ANY UTILITY TYPE SIZE 12" AND GREATER, UTILITY COMPANY MUST SUBMIT A SIGNED LETTER FROM AN AUTHORIZED REPRESENTATIVE FROM THE COMPANY, ADMONISHING THAT THE PROJECT PROPOSED TO CROSS PRESENT LINES IN SURVANCE OF ROW. FROM THE LETTER SHALL BE ACCOMPANIED BY A MAP SHOWING THE LOCATION OF ALL SUCH OPERATIONAL INFRASTRUCTURE BEING CROSSED AND SHOW MAP SHALL BE ON THE COVER PAGE OF THE PERMIT PLAN SET.
5. PERMITS MUST BE OBTAINED USING CONSTRUCTION CITY EMPLOYEE WITH PROPER IDENTIFICATION CARDS AND ASK A CONTRACTOR FOR THEIR PERMITTED SET OF PLANS. A CONTRACTOR WORKING OUTSIDE OF THE PERMIT ISSUANCE WINDOW IS CONSIDERED TO BE WORKING WITHOUT A PERMIT AND WILL BE SUBJECT TO ISSUANCE OF A VIOLATION FOR WORK WITHOUT A PERMIT VIOLATION FOR WORK WITHOUT A PERMIT CAN RESULT IN SUSPENSION OF A CONTRACTOR'S ABILITY TO OBTAIN PERMITS TO WORK WITHIN THE CITY.
6. WHEN A PROPOSED UTILITY EXCAVATION EXISTING CITY UTILITY SANITARY SEWER OR DRAINAGE PIPE, THE UTILITY COMPANY MUST TELEPHONE THE FIELD AND PROVIDE NOTICE AT THE POINT OF CROSSING. A CLEAR SECTION WITH DIMENSIONS MUST BE PROVIDED IDENTIFYING THE CROSSING POINT. THIS HAS TO BE DONE PRIOR TO SCHEDULING FINAL INSPECTION.
7. WHENEVER A PROPOSED UTILITY EXCAVATION EXISTING CITY UTILITIES, THE DEPTH OF THE EXISTING CITY UTILITIES MUST BE FIELD VERIFIED AND NOTED ON THE PERMIT PLAN SET. A UTILITY COMPANY EMPLOYEE SHALL BE UTILIZED TO VERIFY THE DEPTH OF EXISTING UTILITIES. THE PERMITTEE MUST NOTIFY THE CITY OF THE METHOD AND PROVIDE INFORMATION ATTEMPTING TO THE ACCURACY OF THE METHOD. VERTICAL AND HORIZONTAL SEPARATIONS NOTED ON THE APPROVED PLANS MUST BE PROVIDED.
8. PRIOR TO FINAL INSPECTION, AN IN-SITU PLAN AND SORE LOG MUST BE SUBMITTED TO THE CITY FOR REVIEW. THE IN-SITU PLAN MUST CLEARLY IDENTIFY THE DEPTH OF THE CITY'S EXISTING UTILITY AT THE POINT WHERE THE NEWLY INSTALLED UTILITY CROSSES IT, AND THE DEPTH AT WHICH THE NEW UTILITY WAS INSTALLED. THIS IS TO VERIFY THAT PROPER SEPARATION DISTANCES HAVE BEEN PROVIDED.

DEPTH (FT)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
10"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
12"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
14"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
16"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
18"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
20"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
22"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
24"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
26"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
28"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
32"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
34"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
42"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
44"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
46"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
48"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
50"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
52"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
54"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
56"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
58"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
60"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
62"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
64"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
66"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
68"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
70"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
72"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
74"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
76"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
78"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
80"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
82"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
84"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
86"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
88"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
90"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
92"	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
94"	1.00	1.00	1.00																	

WATER ERU TABLE

TYPE OF USE	UNIT OF MEASURE	# OF UNITS	GPD/UNIT	TOTAL GPD
RESTAURANT	1,000 SF	3,465	356	1,233
TAKE OUT RESTAURANT	1,000 SF	240	473	114
			TOTAL =	1,347 GPD

SEWER ERU TABLE

TYPE OF USE	UNIT OF MEASURE	# OF UNITS	GPD/UNIT	TOTAL GPD
RESTAURANT	1,000 SF	3,465	290	1,005
TAKE OUT RESTAURANT	1,000 SF	240	385	93
			TOTAL =	1,098 GPD

ELEVATION NOTES:

1. ALL ELEVATIONS SHOWN ON THIS PLAN ARE BASED ON THE NAVD 88 DATUM.

GENERAL NOTE:

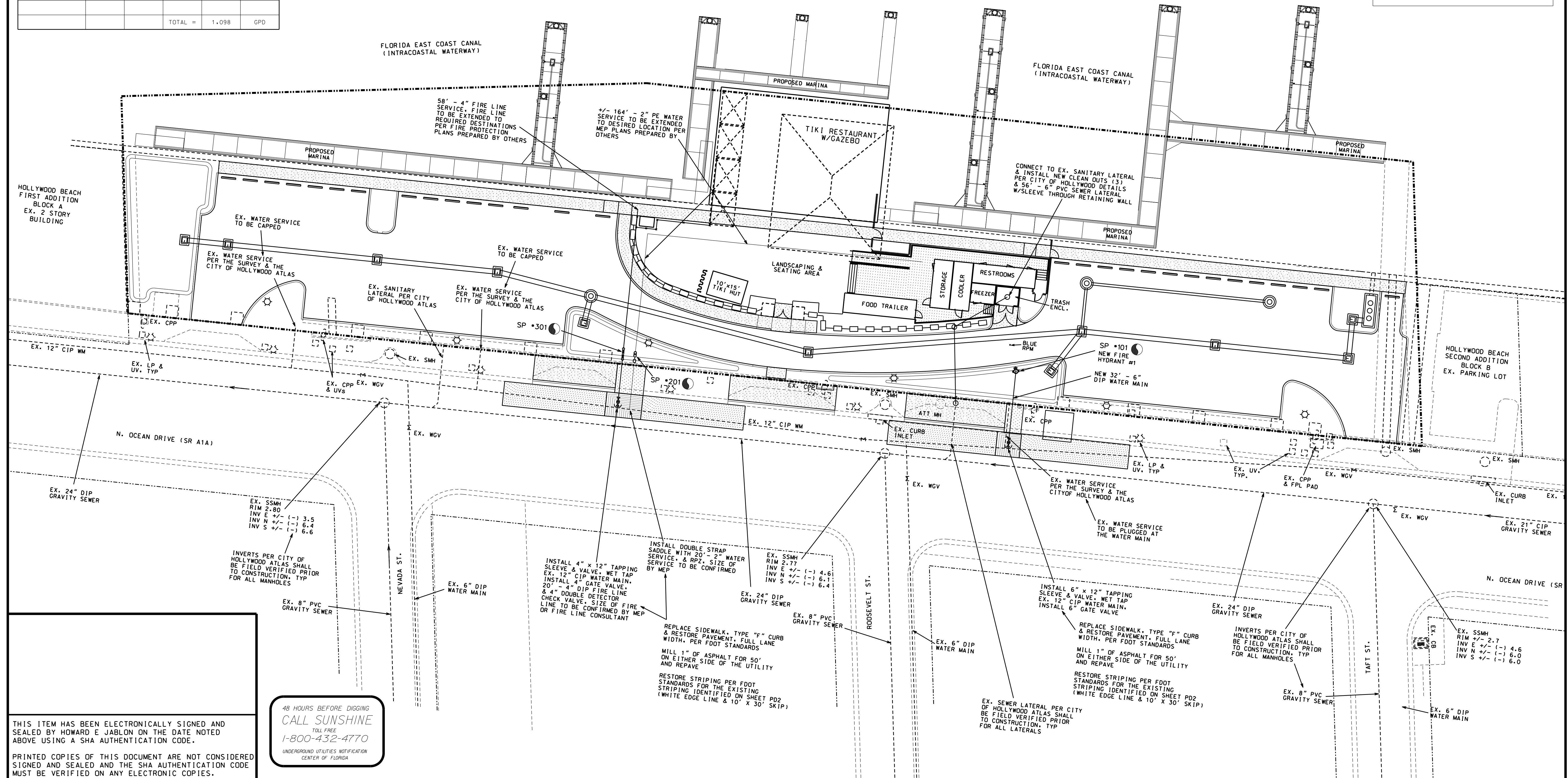
1. NO VALVES, METERS, FIRE HYDRANTS, CLEANOUTS, MANHOLES, OR OTHER UTILITY APPURTENANCES ARE TO BE PLACED IN, OR ADJACENT TO SIDEWALKS, CURBS, PARKING SPACES OR OTHER SUCH SITE FEATURES SO AS TO PRESENT A HAZARD OR RESTRICT THE MAINTENANCE OR OPERATION OF THE UTILITY INFRASTRUCTURE.

ABBREVIATIONS

- BCR BROWARD COUNTY RECORDS
- BFE BASE FLOOD ELEVATION
- BFP BACKFLOW PREVENTOR
- C & G CURB & GUTTER
- CB CATCH BASIN
- CBS CONCRETE BLOCK STUCCO
- CLF CHAIN LINK FENCE
- CPP CONCRETE POWER POLE
- ECP EQUIPMENT CONCRETE PAD
- EX. EXISTING
- FF EL FINISHED FLOOR ELEVATION
- FH FIRE HYDRANT
- WGV WATER GATE VALVE
- HH HAND HOLE
- INV INVERT
- PB, PG PLAT BOOK & PAGE
- PL PROPERTY LINE
- R/W RIGHT OF WAY
- SDMH STORM DRAIN MANHOLE
- SSMH SANITARY SEWER MANHOLE
- TPM TELEPHONE MANHOLE
- TYP. TYPICAL
- UE UTILITY EASEMENT
- WM WATER MAIN
- WPP WOOD POWER POLE
- YD YARD DRAIN

LEGEND

- EX. SANITARY SEWER MAIN
- EX. WATER MAIN
- EX. SANITARY SEWER MANHOLE
- EX. WATER MAIN FITTINGS
- PROPOSED FIRE HYDRANT ASSEMBLY
- SAMPLE POINT LOCATION
- DOUBLE WATER SERVICE
- SINGLE WATER SERVICE
- DOUBLE SEWER SERVICE W/CLEAN OUT
- SANITARY SEWER MANHOLE
- SINGLE SEWER SERVICE W/CLEAN OUT
- GHOSTED DRAINAGE
- WATER/DRAINAGE CONFLICT



THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY HOWARD E JABLON ON THE DATE NOTED ABOVE USING A SHA AUTHENTICATION CODE.

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

48 HOURS BEFORE DIGGING  
**CALL SUNSHINE**  
 TOLL FREE  
**1-800-432-4770**  
 UNDERGROUND UTILITIES NOTIFICATION  
 CENTER OF FLORIDA

SCALE: 1" = 20'	DATE	REVISIONS	DATE	REVISIONS
DRAWN BY: HEJ	06/20/23	COMMENTS: UPDATE PER CITY SP RAI #1		
CHECKED BY: LJJ	09/15/23	COMMENTS: UPDATE PER CITY SP RAI #2 & BCSMM RAI #1		
APPROVED BY: HEJ	12/15/23	COMMENTS: UPDATE BOUNDARY, SITE CALCULATIONS		

AJ HYDRO  
 ENGINEERING, INC.  
 5932 NW 73RD COURT  
 PARKLAND, FL 33067  
 TEL (954) 347-3397  
 AJHYDRO@BELLSOUTH.NET

PROJECT: **SKIPPERS DOCKSIDE**

TITLE: **WEST WATER & SEWER PLAN**

SEAL: **HOWARD JABLON, PE #47514**

DATE: **10/25/22**

DRAWING NO. **21-0100**

SHEET NO. **WS1 OF 6**

**GENERAL NOTES:**

1. THE INFORMATION PROVIDED IN THESE DRAWINGS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK. THE CONTRACTOR IS TO BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE INFORMATION PROVIDED. THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED AND UPON WHICH THE CONTRACTOR SHALL BE RESPONSIBLE.
2. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO APPLICABLE STANDARDS AND SPECIFICATIONS OF THE CITY OF HOLLYWOOD DEPARTMENT OF PUBLIC UTILITIES, ENGINEERING AND CONSTRUCTION SERVICES DIVISION TECHNICAL AND OTHER LOCAL, STATE AND NATIONAL CODES, WHERE APPLICABLE.
3. LOCATIONS, ELEVATIONS, SIZES, MATERIALS, ALIGNMENTS, AND DIMENSIONS OF EXISTING FACILITIES, UTILITIES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE PLANS, AND DO NOT WARRANT TO BE ACCURATE. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC., WITHIN THE PROJECT AREA WHICH WERE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS AND FEATURES PRIOR TO CONSTRUCTION, AND NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICTS BETWEEN DRAWINGS AND ACTUAL CONDITIONS ARE DISCOVERED. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ANY FACILITIES SHOWN OR NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL WORK AS NECESSARY TO AVOID CONFLICT WITH EXISTING UTILITIES AND ADDITIONAL COSTS SHALL BE PAID FOR THIS WORK. EXISTING UTILITIES SHALL BE MAINTAINED IN SERVICE DURING CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE RESPECTIVE UTILITY OWNER.
4. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITIES TO ARRANGE FOR THE PROTECTION AND TEMPORARY SUPPORT OF UTILITY FEATURES, ETC. AS NECESSARY TO COMPLETE THE WORK.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ANY AND ALL EXISTING UTILITIES ON THIS PROJECT, AND TO ENSURE THAT EXISTING UTILITIES ARE MAINTAINED IN SERVICE DURING CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE UTILITY OWNER.
6. THE CONTRACTOR SHALL ADJUST ALL EXISTING UTILITY CASTINGS INCLUDING MANHOLES, MANHOLES, HAND-HOLES, PULL BOXES, FRESHWATER INLETS, AND SIMILAR STRUCTURES IN CONSTRUCTION AREA TO BE OVERLAIN WITH ASPHALT PAVEMENT.
7. THE CONTRACTOR IS REQUIRED TO OBTAIN ALL APPLICABLE CONSTRUCTION AND ENVIRONMENTAL PERMITS PRIOR TO THE START OF CONSTRUCTION.
8. THE CONTRACTOR SHALL NOTIFY ECD AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
9. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND INSTALLATION OF THE PROPOSED IMPROVEMENTS, SHOP DRAWINGS SHALL BE SUBMITTED TO ECD IN ACCORDANCE WITH THE CONTRACT DOCUMENTS' REQUIREMENTS, FOR APPROVAL. IN ADDITION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY OTHER AGENCY SHOP DRAWING APPROVAL, IF REQUIRED.
10. THE CONTRACTOR SHALL NOTIFY ECD IMMEDIATELY FOR ANY CONFLICT ARISING DURING CONSTRUCTION, OR ANY IMPROVEMENTS SHOWN ON THESE DRAWINGS. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
11. ELEVATIONS SHOWN ARE IN FEET AND ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

ISSUED: 05/01/1994 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2024  
 DRAWN: EAM  
 APPROVED: XJK  
 GENERAL NOTES  
 DRAWING NO. G-00

**GENERAL NOTES (CONTINUED):**

12. THE CITY OF HOLLYWOOD SHALL NOT PROVIDE STAGING / STORAGE AREA. CONTRACTOR SHALL SECURE STAGING / STORAGE AREA AS NECESSARY FOR CONSTRUCTION WORK.
13. CONTRACTOR SHALL MAINTAIN EXCESSIVE STOCKPILE OF SOIL FOR DISPOSAL EVERY DAY. NO STOCKPILE SOIL IS ALLOWED TO BE LEFT ON THE CONSTRUCTION SITE OVERNIGHT.
14. CONTRACTOR SHALL CLEAN / SWEEP THE ROAD AT LEAST ONCE DAY OR AS REQUIRED BY THE ENGINEER.
15. CONTRACTOR SHALL PROTECT CATCH BASINS WITHIN / ADJACENT TO THE CONSTRUCTION SITE AS REQUIRED BY APDES REGULATIONS.
16. THE CITY OF HOLLYWOOD HAS A NOISE ORDINANCE (CHAPTER 100) WHICH PROHIBITS EXCAVATION AND CONSTRUCTION BEFORE 6:00 A.M. AND AFTER 6:00 P.M. MONDAY THROUGH SATURDAY AND ALL DAY SUNDAY.
17. SUITABLE EXCAVATED MATERIAL SHALL BE USED IN FILL AREAS. NO SEPARATE PAY ITEM FOR THIS WORK, INCLUDE COST IN OTHER ITEMS.
18. ALL ROAD CROSSINGS ARE OPEN CUT AS PER THE REQUIREMENTS OF THE ECD UNLESS OTHERWISE NOTED ON THE DRAWINGS.
19. THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZED EARTH, DRIVEWAYS, PARKING LOTS, SIDEWALKS, ETC. TO MATCH THE INSTALLATION OF THE PROPOSED IMPROVEMENTS WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION OR AS DIRECTED BY ECD FIELD ENGINEER.
20. THE CONTRACTOR SHALL NOT ENCROACH INTO PRIVATE PROPERTY WITH PERSONAL MATERIAL OR EQUIPMENT. IN CASE WORK ON PRIVATE PROPERTY IS REQUIRED, A CITY OF HOLLYWOOD "RIGHT OF ENTRY" FORM MUST BE SIGNED BY PROPERTY OWNER AND THE DIRECTOR OF PUBLIC UTILITIES. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN ACCESS AT ALL TIMES TO PRIVATE HOMES/BUSINESSES.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE, REMOVAL OR MODIFICATION, CAUSED BY ANY IRRIGATION SYSTEM (PRIVATE OR PUBLIC ACCESSORALLY) OR PURPOSES. THE CONTRACTOR SHALL REPLACE ANY DAMAGED, REMOVED OR MODIFIED IRRIGATION PIPES, SPRINKLER HEADS OR OTHER PREVIOUS APPEARANCES TO MATCH OR EXCEED EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE CITY.
22. MAIL BOXES, FENCES OR OTHER PRIVATE PROPERTY DAMAGED DURING THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE REPAIRED TO MATCH OR EXCEED EXISTING CONDITIONS.
23. CONTRACTOR SHALL PROVIDE MAINTENANCE OF TRAFFIC IN ACCORDANCE WITH FOOT STANDARDS AND CITY OF HOLLYWOOD DEPARTMENT OF PUBLIC UTILITIES STANDARDS.
24. NO TREES ARE TO BE REMOVED OR RELOCATED WITHOUT PRIOR APPROVAL FROM THE ECD FIELD ENGINEER.
25. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE NECESSARY TREE REMOVAL OR RELOCATION PERMITS FROM THE CITY OF HOLLYWOOD BUILDING DEPARTMENT FOR TREES LOCATED IN THE PUBLIC RIGHT OF WAY.
26. IF IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION, ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE REGULATORY STANDARDS' REQUIREMENTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF ECD.

ISSUED: 05/01/1994 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2024  
 DRAWN: EAM  
 APPROVED: XJK  
 GENERAL NOTES (CONTINUED)  
 DRAWING NO. G-00.1

**GENERAL NOTES (CONTINUED):**

27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF AND MAKING THE REPAIRS TO EXISTING PAVEMENT, SIDEWALKS, CURBS, CABLES, ETC., WHETHER OR NOT SHOWN ON THE PLANS DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS AND/OR THOSE OF HIS SUBCONTRACTORS, AND SHALL RESTORE THIS PROMPTLY AT NO ADDITIONAL EXPENSE TO THE OWNER. CONTRACTOR SHALL REPORT ANY DAMAGE TO SIDEWALK, DRIVEWAY, ETC., PRIOR TO BEGINNING WORK IN ANY AREA.
28. WHEN NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT STRAIGHT LINE AND FLUSH WITH EXISTING PAVEMENT TO MATCH EXISTING CONDITIONS.
29. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR LEAVE EXCAVATED HOLES, OR PARTS OF, EXPOSED OR OPENED AT THE END OF THE WORKING DAY. WELDED, HOLES OR OTHER TIMES, WHEN THE CONTRACTOR IS NOT WORKING, UNLESS OTHERWISE DIRECTED, ALL TRENCHES SHALL BE COVERED, FIRMLY SECURED AND MARKED ACCORDINGLY FOR PROTECTION / VEHICULAR TRAFFIC.
30. ALL EXCAVATED MATERIAL REMOVED FROM THIS PROJECT SHALL BE DEPOSITED OFF THE PROPERTY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
31. ALL DUCTILE IRON PRODUCTS SHALL BE DOMESTIC MADE HEAVY DUTY CLASSIFICATION SUITABLE FOR HIGHWAY TRAFFIC LOADS, OR 20,000 LB.
32. ALL GRASSED AREAS AFFECTED BY CONSTRUCTION SHALL BE RE-SEEDDED.
33. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH SPECIFICATIONS OF THE LATEST EDITION OF FOOT DESIGN STANDARDS. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR THE RESTORING OF ALL TRAFFIC CONTROL AND INFORMATION SIGNAGE REMOVED DURING THE CONSTRUCTION PERIOD.
34. EXCAVATED OR OTHER MATERIAL STORED ADJACENT TO OR PARTIALLY UPON A ROADWAY PAVEMENT SHALL BE ADEQUATELY MARKED FOR TRAFFIC SAFETY AT ALL TIMES.
35. TEMPORARY PATCH MATERIAL MUST BE ON THE JOB SITE WHENEVER PAVEMENT IS CUT, OR THE CITY'S INSPECTOR WILL SHUT THE JOB DOWN.
36. CONTRACTOR MUST PROVIDE FLASHER ARROWS SIGNAL FOR ANY LANE THAT IS CLOSED OR OVERTHO.
37. CONTRACTOR SHALL NOTIFY LAW ENFORCEMENT AND FIRE PROTECTION SERVICES TWENTY-FOUR (24) HOURS IN ADVANCE OF TRAFFIC DETOUR IN ACCORDANCE WITH SECTION 360.07 OF FLORIDA STATUTES.
38. CONTRACTOR TO RESTORE PAVEMENT TO ORIGINAL CONDITION AS REQUIRED.
39. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING DEWATERING PER SPECIFICATION SECTION 02140 DEWATERING.

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 APPROVED: XJK  
 GENERAL NOTES (CONTINUED)  
 DRAWING NO. G-00.2

**GENERAL NOTES (CONTINUED):**

40. THE CONTRACTOR SHALL GIVE AT LEAST 48 HOURS NOTICE TO UTILITY COMPANIES TO PROVIDE FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES IN ADVANCE OF CONSTRUCTION. CONTACT UTILITIES NOTIFICATION CENTER AT 811 OR 1-800-424-4770 (SUNSHINE ONE CALL OF FLORIDA).
41. WHEN PVC PIPE IS USED, A METALLIZED MARKER TAPE SHALL BE INSTALLED CONTINUOUSLY 1" ABOVE THE PIPE. THE MARKER TAPE SHOULD BE IMPRINTED WITH A WARNING THAT THERE IS BURIED PIPE BELOW. THE TAPE SHALL BE MADE OF POLYESTER OR POLYPROPYLENE AND SHALL BE MANUFACTURED BY THEIR ENTERPRISES INC. OR APPROVED EQUAL.
42. ALL CONNECTIONS TO EXISTING MAINS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. WATER CONNECTIONS SHALL BE METTERED, AND THE COST OF WATER AND TEMPORARY METTER SHALL BE BORNE BY THE CONTRACTOR.
43. A COMPLETE AS-BUILT SURVEY SHALL BE ACCURATELY RECORDED OF THE UTILITY SYSTEM DURING CONSTRUCTION. AS-BUILT SURVEY SHALL BE SUBMITTED TO ECD SIGNED AND SEALED BY A FLORIDA REGISTERED SURVEYOR PRIOR TO FINAL INSPECTION AND ACCEPTANCE OF PROJECT. THE COST OF SIGNED AND SEALED AS-BUILT SHALL BE COVERED IN OVERALL BID. THE AS-BUILT SURVEY SHALL INCLUDE:
  - a. PLAN VIEW SHOWING THE HORIZONTAL LOCATIONS OF EACH MANHOLE, INLET, VALVE, FITTING, BEND AND HORIZONTAL PIPE DEFLECTIONS WITH COORDINATES AND IN REFERENCE TO A SURVEY BASELINE OR RIGHT-OF-WAY CENTERLINE.
  - b. THE PLAN VIEW SHALL ALSO SHOW SPOT ELEVATIONS OF THE TOP OF THE MAIN WATER MAIN AND FORCE MAIN OR FORCE MAIN OR PIPE INVERTS GRAVITY MAINS AT INTERVALS NOT TO EXCEED 100 FEET AS MEASURED ALONG MAIN. THE PLAN VIEW SHALL ALSO INCLUDE SPOT ELEVATIONS AT EACH MANHOLE, INLET, VALVE, FITTING, BEND AND VERTICAL PIPE DEFLECTION.
  - c. THE PLAN VIEW SHALL ALSO SHOW THE HORIZONTAL SEPARATION FROM UNDERGROUND UTILITIES IMMEDIATELY ADJACENT OR PARALLEL TO THE NEW MAIN.
  - d. PROFILE VIEW WITH SPOT ELEVATIONS OF THE TOP OF THE MAIN WATER MAIN AND FORCE MAIN OR FORCE MAIN OR PIPE INVERTS GRAVITY MAINS AT INTERVALS NOT TO EXCEED 100 FEET AS MEASURED ALONG THE MAIN. THE PROFILE VIEW SHALL ALSO INCLUDE SPOT ELEVATIONS AT EACH MANHOLE, INLET, VALVE, FITTING, BEND AND VERTICAL PIPE DEFLECTION.
  - e. THE PROFILE VIEW SHALL SHOW ALL UNDERGROUND UTILITIES CROSSING THE NEW MAIN AND THE VERTICAL SEPARATION PROVIDED BETWEEN THAT UNDERGROUND UTILITY AND THE NEW MAIN.
  - f. ALL CAD FILES MUST BE CREATED FOLLOWING THE CITY OF HOLLYWOOD "SURVEY / AS-BUILT CAD DRAWING STANDARDS"

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 APPROVED: XJK  
 GENERAL NOTES (CONTINUED)  
 DRAWING NO. G-00.3

**GENERAL WATER SYSTEM NOTES**

1. ALL APPLICABLE PERMITS MUST BE OBTAINED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. ALL APPLICABLE FEES AND CHARGES MUST BE PAID PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. THE LOCATION OF EXISTING UTILITIES AS SHOWN ON APPROVED PLANS ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR. APPROVAL OF DEVELOPMENT PLANS BY THE CITY IN NO WAY IMPLIES VERIFICATION OF THE ACCURACY OF THOSE PLANS OR FEATURES DEPICTED THEREON. ANY DISCREPANCY IN, OR VARIATION FROM, THE APPROVED PLANS IS TO BE BROUGHT TO THE ATTENTION OF THE UTILITY ENGINEER AND THE ENGINEER OF RECORD.
4. THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES THROUGHOUT THE DURATION OF THE CONSTRUCTION FOR THE PROTECTION OF EXISTING AND NEWLY INSTALLED UTILITIES AND IMPROVEMENTS FROM DAMAGE, DISRUPTION OF SERVICE, OR DESTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING SUCH MEASURES AS NECESSARY TO PROTECT THE HEALTH, SAFETY AND WELFARE OF THESE PERSONS HAVING ACCESS TO THE WORK SITE.
5. THE CONTRACTOR SHALL INFORM THE BCWWS ENGINEERING DEPARTMENT AND THE ENGINEER OF RECORD AT LEAST 48 HOURS IN ADVANCE OF COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING LOCATIONS OF ALL UTILITIES, AND NOTIFICATION OF SUNSHINE ONE CALL (1-800-432-4770), 48 HOURS IN ADVANCE OF CONSTRUCTION.
6. THE CONTRACTOR SHALL INFORM THE ENGINEER OF RECORD AND THE BCWWS ENGINEERING DEPARTMENT IN WRITING A MINIMUM OF 48 HOURS IN ADVANCE OF THE FOLLOWING:
  - WET CONNECTION
  - PRESSURE TEST
  - FILLING/FLUSHING
  - CHLORINATION
  - BACTERIOLOGICAL SAMPLES
7. A PRE-CONSTRUCTION MEETING IS TO BE HELD PRIOR TO CONSTRUCTION AND SHALL BE ATTENDED BY THE CONTRACTOR, RECORD ENGINEER, BCWWS AND OTHER INTERESTED PARTIES PRIOR TO ISSUANCE OF A CONSTRUCTION PERMIT.
8. THE ENGINEER OF RECORD AND UTILITY INSPECTOR SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF ALL ACTIVITIES THAT REQUIRE THE INSPECTION.
9. CONSTRUCTION SHALL BE CARRIED OUT IN STRICT COMPLIANCE WITH THE STANDARDS ACCEPTED BY BC WWS.
10. THE CONTRACTOR SHALL MAINTAIN A CURRENT APPROVED SET OF CONSTRUCTION PLANS ON SITE. THE PLANS ARE TO BE MADE AVAILABLE TO THE UTILITY INSPECTOR UPON REQUEST.
11. THE RECORD ENGINEER WILL CARRY OUT INSPECTIONS OF WORK. THE UTILITY ENGINEER OF RECORD WILL INFORM THE CONTRACTOR WHEN TO BACKFILL THE WORK AND WILL WITNESS PRESSURE, BACTERIOLOGICAL, AND INFILTRATION/EXFILTRATION TESTS AS REQUIRED PER THE BCWWS.
12. THE FOLLOWING DOCUMENTS ARE TO BE ON FILE AT BC WATER & WASTEWATER SERVICES PRIOR TO THE CONNECTION OF THE FIRST WATER METER:
  - A. CERTIFIED "AS-BUILT" PLANS APPROVED BY THE BC WWS.
  - B. LETTERS OF ACCEPTANCE FROM:
    - BROWARD COUNTY PUBLIC HEALTH UNIT
    - DEPARTMENT OF NATURAL RESOURCE PROTECTION
  - C. CERTIFICATION BY ENGINEER OF RECORD
  - D. DEDICATION OF ALL UTILITY EASEMENTS THAT ARE SHOWN ON THE APPROVED PLANS.
  - E. AS-BUILT MYLAR AND/OR SIGNED AND SEALED COPIES OF AS-BUILTS CERTIFIED BY A PROFESSIONAL ENGINEER OR A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA, AS REQUESTED BY BCWWS.
  - F. FINAL INSPECTION VERIFICATION BY THE BCWWS.
13. NO DEVIATION FROM THE APPROVED PLANS SHALL BE PERMITTED WITHOUT THE WRITTEN CONSENT OF THE ENGINEER OF RECORD AND THE BCWWS.
14. ALL DENSITY TESTS SHALL BE TAKEN BY A CERTIFIED TESTING LABORATORY. TESTS SHALL BE CONDUCTED UNDER THE DIRECTION OF THE ENGINEER OF RECORD AND THE BCWWS INSPECTOR.

**WATER MAIN SEPARATION IN ACCORDANCE WITH F.A.C. RULE 62-555.314**

OTHER PIPE	HORIZONTAL SEPARATION	CROSSING (1), (4)	JOINT SPACING @ CROSSING (FULL JOINT CENTERED) (8)
STORM SEWER	6"	OVER	6"
STORM WATER FORCE MAIN (RECLAIMED WATER)	6"	OVER	6"
GRAVITY SANITARY SEWER (RECLAIMED WATER)	6"	OVER	6"
ON-SITE SEWAGE TREATMENT & DISPOSAL SYSTEM	6"	OVER	6"

1. WATER MAIN SHOULD CROSS ABOVE OTHER PIPE, WHEN WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM SEPARATION IS 3 FEET.
2. RECLAIMED WATER SEWER UNDER FRESH WATER CHAPTER 62B, S.A. 1.
3. 1 FT. FOR GRAVITY SANITARY SEWER WHERE THE BOTTOM OF THE WATER MAIN IS AT LEAST 6 INCHES ABOVE THE TOP OF THE SEWER.
4. IF VERTICAL MINIMUM SEPARATION REQUIRED BY CITY OF HOLLYWOOD, UNLESS OTHERWISE APPROVED.
5. A MINIMUM FOOT HORIZONTAL SEPARATION BETWEEN ANY TYPE OF SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS WHEREVER POSSIBLE.
6. IN A SITUATION WHERE IT IS NOT POSSIBLE TO MAINTAIN A 3 FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE LAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.
7. WHERE IT IS NOT POSSIBLE TO MAINTAIN A 3 FOOT HORIZONTAL SEPARATION, THE WATER MAIN SHALL BE CONSTRUCTED OF OR DRAP AND THE SANITARY SEWER OR FORCE MAIN SHALL BE CONSTRUCTED OF DR WITH A MINIMUM VERTICAL CLEARANCE OF 6 INCHES. THE WATER MAIN SHOULD ALWAYS BE ABOVE THE SEWER OR FORCE MAIN (DRESSED CONDUIT). WATER MAIN SHALL BE LOCATED AS FAR AWAY AS POSSIBLE FROM THE SEWER OR FORCE MAIN (DRESSED CONDUIT).
8. ALL JOINTS ON THE WATER MAIN WITHIN 7 FEET OF THE JOINTS MUST BE MECHANICALLY RESTRAINED.

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 SEPARATION REQUIREMENTS OF F.D.E.P.  
 DRAWING NO. G-01.1

**PIPE LAYING CONDITION TYPICAL SECTION (D.I.P.)**

**GENERAL INSTRUCTIONS:**

1. WHEN PIPE INSTALLATION IS ABOVE THE GROUND WATER TABLE ELEVATION, OR IMPROVED SECONDARY COPPER PIPE UNDER ANY CONDITION, BEDDING MATERIAL SHALL BE CLEAN SAND. SAND, 1/4" MAXIMUM SIZE, SHALL BE USED FOR CONSTRUCTION. BEDDING SHALL BE WELL WASHED, WASHED COARSE STONE SHALL CONSIST OF HARD, DURABLE, SUB-ANGULAR PARTICLES OF PROPER SIZE AND SHALL BE FREE FROM ORGANIC MATERIAL, WOOD, TRASH, SAND, LOAM, CLAY, EXCESS FINES, AND OTHER OBSTACLES.
2. ALL BEDDING MATERIAL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY BEFORE ANY PIPE IS LAID. FOR ADDITIONAL MATERIAL SPECIFICATIONS REFER TO SPECIFICATION SECTION 02120 TRENCH AND EXCAVATION METHODS FOR GRAVITY.
3. DENSITY TESTING SHALL BE IN ACCORDANCE WITH MASH 7-180 AND ASTM D-1557.
4. BACKFILL TO COMPLY WITH FOOT DESIGN STANDARD 125-B.

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 PIPE LAYING CONDITION TYPICAL SECTION (D.I.P.)  
 DRAWING NO. G-02

**PIPE LAYING CONDITION TYPICAL SECTION (P.V.C.)**

**GENERAL INSTRUCTIONS:**

1. WHEN PIPE INSTALLATION IS ABOVE THE GROUND WATER TABLE ELEVATION, OR IMPROVED SECONDARY COPPER PIPE UNDER ANY CONDITION, BEDDING MATERIAL SHALL BE CLEAN SAND. SAND, 1/4" MAXIMUM SIZE, SHALL BE USED FOR CONSTRUCTION. BEDDING SHALL BE WELL WASHED, WASHED COARSE STONE SHALL CONSIST OF HARD, DURABLE, SUB-ANGULAR PARTICLES OF PROPER SIZE AND SHALL BE FREE FROM ORGANIC MATERIAL, WOOD, TRASH, SAND, LOAM, CLAY, EXCESS FINES, AND OTHER OBSTACLES.
2. ALL BEDDING MATERIAL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY BEFORE ANY PIPE IS LAID. FOR ADDITIONAL MATERIAL SPECIFICATIONS REFER TO SPECIFICATION SECTION 02120 TRENCH AND EXCAVATION METHODS FOR GRAVITY.
3. DENSITY TESTING SHALL BE IN ACCORDANCE WITH MASH 7-180 AND ASTM D-1557.
4. BACKFILL TO COMPLY WITH FOOT DESIGN STANDARD 125-B.

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 DRAWN: EAM  
 APPROVED: XJK  
 PIPE LAYING CONDITION TYPICAL SECTION (P.V.C.)  
 DRAWING NO. G-03

**UTILITY CROSSING USING FITTINGS**

**UTILITY CROSSING USING JOINT DEFLECTIONS**

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 DRAWN: EAM  
 APPROVED: XJK  
 UTILITY CROSSING DETAIL  
 DRAWING NO. G-04

**TYPICAL VALVE BOX SETTING**

ISSUED: 05/01/1994 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2024  
 DRAWN: EAM  
 APPROVED: XJK  
 TYPICAL VALVE BOX SETTING  
 DRAWING NO. G-05

**TYPICAL TAPPING SLEEVE AND VALVE SETTING**

ISSUED: 05/01/1994 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2024  
 DRAWN: EAM  
 APPROVED: XJK  
 TYPICAL TAPPING SLEEVE AND VALVE SETTING  
 DRAWING NO. G-06

**TYPICAL GATE VALVE AND VALVE BOX SETTING**

ISSUED: 05/01/1994 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2024  
 DRAWN: EAM  
 APPROVED: XJK  
 TYPICAL GATE VALVE AND VALVE BOX SETTING  
 DRAWING NO. G-07

**RESILIENT SEATED GATE VALVE SPECIFICATIONS:**

4" THROUGH 12" SIZE (WATER AND FORCE MAIN)

1. GATE VALVES SHALL BE RESILIENT SEATED, MANUFACTURED TO MEET OR EXCEED THE REQUIREMENTS OF ANWWA C500 (LATEST REVISION) AND IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
  - 1.1. VALVES SHALL HAVE AN UNRESTRICTED WATERWAY EQUAL TO OR GREATER THAN THE FULL NOMINAL DIAMETER OF THE VALVE.
  - 1.2. THE VALVES ARE TO BE NON-RISING STEM WITH THE STEM MADE OF CAST, FORGED OR ROLLED BRONZE SHOWN IN ANWWA C500. TWO STEM SEALS SHALL BE PROVIDED AND SHALL BE OF THE O-RING TYPE, ONE ABOVE AND ONE BELOW THE THRUST COLLAR WITH LUBRICANT BETWEEN O-RINGS.
  - 1.3. THE STEM NUT, ALSO MADE OF BRONZE, MAY BE INDEPENDENT OF THE GATE OR CAST INTEGRALLY WITH THE GATE. IF THE STEM NUT IS CAST INTEGRALLY, THE THREADS SHALL BE STRAIGHT AND TRUE WITH THE AXIS OF THE STEM TO AVOID BINDING DURING THE OPENING OR CLOSING CYCLE.
  - 1.4. THE SEALING MECHANISM SHALL CONSIST OF A CAST IRON GATE HAVING A VULCANIZED SYNTHETIC RUBBER COATING OR A RUBBER SEAT MECHANICALLY RETAINED ON THE GATE. THE RESILIENT SEALING MECHANISM SHALL PROVIDE ZERO LEAKAGE AT THE WATER WORKING PRESSURE WHEN INSTALLED WITH THE LINE FLOW IN EITHER DIRECTION.
  - 1.5. A 2-INCH SQUARE WRENCH NUT SHALL BE PROVIDED FOR OPERATING THE VALVE.
  - 1.6. ALL VALVES ARE TO BE SUPPLIED COMPLETE AND READY FOR INSTALLATION INCLUDING, BUT NOT LIMITED TO ALL NUTS, BOLTS, RINGS AND RUBBERS.
  - 1.7. ALL VALVES ARE TO BE TESTED IN STRICT ACCORDANCE WITH ANWWA C500 (LATEST REVISION).

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 DRAWN: EAM  
 APPROVED: XJK  
 RESILIENT SEATED GATE VALVE SPECIFICATIONS  
 DRAWING NO. G-07.1

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY HOWARD E. JABLON ON THE DATE NOTED ABOVE USING A SHA AUTHENTICATION CODE.

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NA	05/08/23	ADDD THIS SHEET	
DRAWN BY: HEJ			
CHECKED BY: LJJ			
APPROVED BY: HEJ			

PROJECT: AJ HYDRO ENGINEERING, INC. 5932 NW 73RD COURT PARKLAND, FL 33067 TEL (954) 347-3397 AJHYDRO@BELLSOUTH.NET

SKIPPERS DOCKSIDE

TITLE: CITY OF HOLLYWOOD GENERAL WATER & SEWER DETAILS & NOTES

SEAL: HOWARD JABLON, PE #47514

DATE: 10/25/22

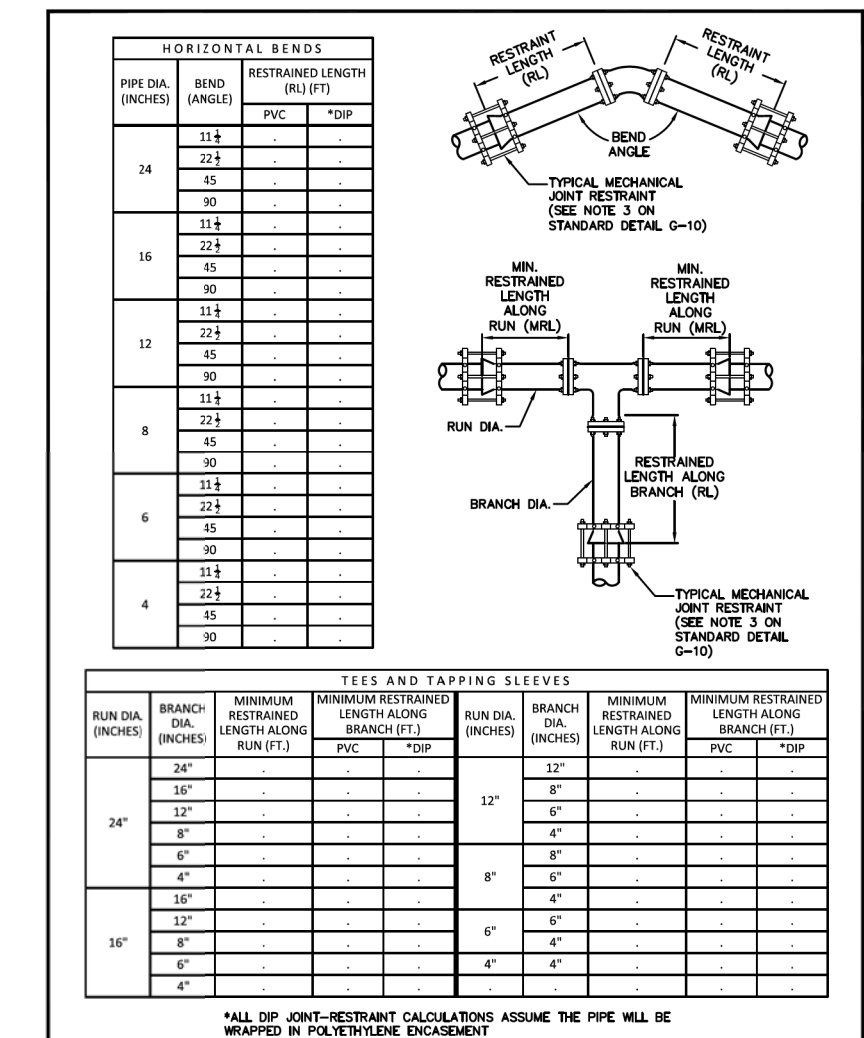
DRAWING NO. 21-0100

SHEET NO. WS2 OF 4

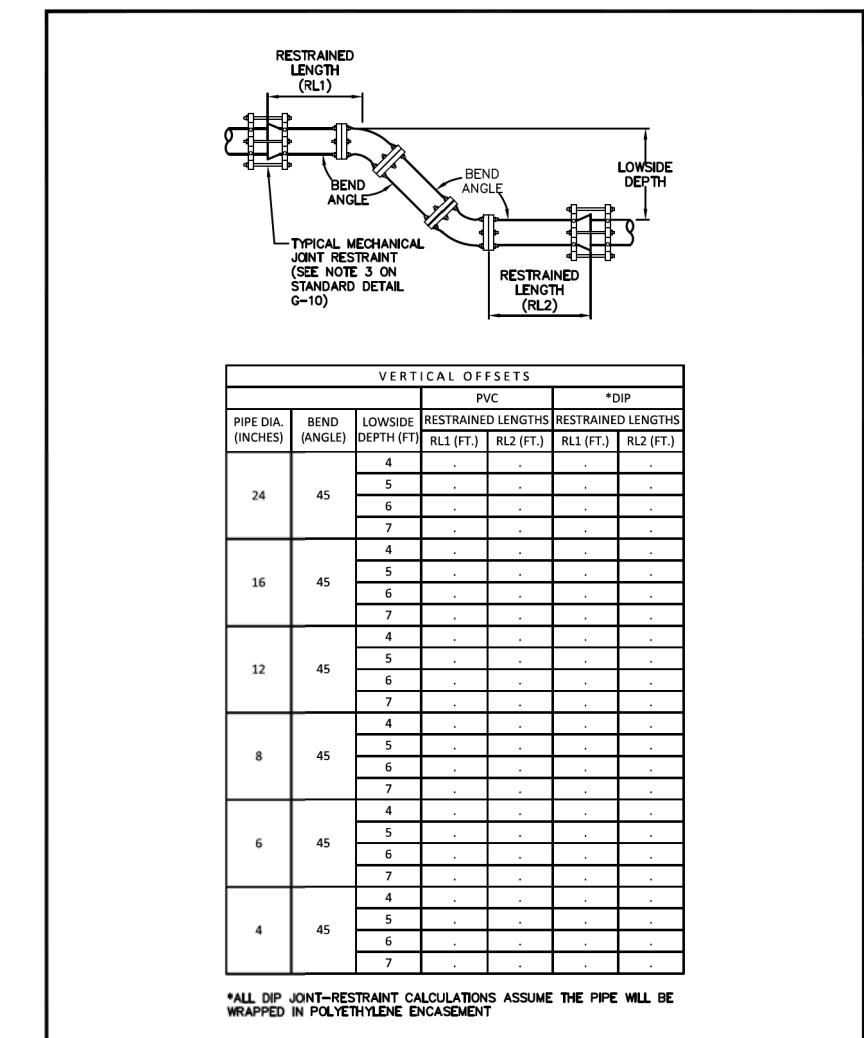
**THRUST RESTRAINT NOTES:**

1. ALL JOINTS BETWEEN BENDS AT HORIZONTAL & VERTICAL OFFSETS SHALL BE RESTRAINED.
2. MECHANICAL THRUST RESTRAINTS FOR D.I.P. FITTINGS ON D.I.P. OR P.V.C. PIPE SHALL BE MEGALUG AS MANUFACTURED BY BEKA IRON, INC. OR APPROVED EQUAL.
3. DUCTILE IRON FITTINGS UP TO 20 INCHES IN DIAMETER SHALL BE RESTRAINED BY MECHANICAL MEANS, I.E., MEGALUGS OR APPROVED EQUAL.
4. DUCTILE IRON FITTINGS 24 INCH IN DIAMETER AND ABOVE SHALL BE RESTRAINED BY MECHANICAL MEANS, I.E., MEGALUGS OR APPROVED EQUAL, WITH THE ADDITION OF THRUST BLOCKS AND CONCRETE ANCHORS AT THE DISCRETION OF THE ENGINEER OF RECORD.
5. ANY THRUST BLOCKS AND ANCHORS ARE TO BE DESIGNED BY THE ENGINEER OF RECORD. SHIELD AND SEALED CALCULATIONS SHALL BE SUBMITTED TO THE CITY FOR APPROVAL PRIOR TO INSTALLATION.
6. THRUST BLOCKS CONSISTING OF Poured-IN-Place CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AFTER 28 DAYS.

ISSUED: 05/01/09 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2014  
 DRAWN: EAP JOINT RESTRAINT DESIGN FOR PVC AND DIP DRAWING NO. G-11  
 APPROVED: KJK



ISSUED: 05/01/09 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2014  
 DRAWN: EAP JOINT RESTRAINT DESIGN FOR PVC AND DIP HORIZONTAL BENDS AND TEES DRAWING NO. G-11.1  
 APPROVED: KJK



ISSUED: 05/01/09 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2014  
 DRAWN: EAP JOINT RESTRAINT DESIGN FOR PVC AND DIP VERTICAL OFFSETS DRAWING NO. G-11.2  
 APPROVED: KJK

**SANITARY SEWER NOTES**

1. PRECAST CONCRETE MANHOLES SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-478-70, LATEST REVISIONS. ALL PRE-CAST MANHOLES SHALL BEAR THE STAMP OF A CERTIFIED ENGINEERING TESTING LABORATORY, SIGNED AND DATED, CERTIFYING THAT THEY MEET THE REQUIREMENTS OF ASTM C-478 FOR CONCRETE STRENGTH, STEEL REINFORCEMENT AREA AND PLACEMENT, AND APPEARANCE WHEN MANUFACTURED. MANHOLES MUST BE INSPECTED BY THE UTILITY INSPECTOR & RECORD ENGINEER BEFORE UNLOADING.
2. CONCRETE FOR PRECAST MANHOLES OR CAST IN PLACE MANHOLES SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4000 P.S.I. AT 28 DAYS.
3. MINIMUM WALL AND BASE THICKNESS FOR PRECAST MANHOLES SHALL BE 8 INCHES.
4. REINFORCING STEEL FOR MANHOLES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-615 AND A-305, LATEST REVISIONS. SPLICES SHALL HAVE A MINIMUM LAP OF 24 BAR DIAMETERS. MINIMUM COVER OVER REINFORCING STEEL SHALL BE 3 INCHES.
5. ALL OPENINGS IN PRECAST MANHOLES SHALL BE CAST AT TIME OF MANUFACTURE.
6. PRECAST MANHOLE SHOP DRAWINGS SHALL BE SUBMITTED TO THE RECORD ENGINEER & BCWWS FOR APPROVAL PRIOR TO FABRICATION.
7. ALL MANHOLES SHALL BE SET PLUMB TO LINE AND GRADE, AND SHALL REST ON A FIRM CAREFULLY GRADED SUBGRADE, WHICH SHALL PROVIDE UNIFORM BEARING UNDER BASE.
8. MANHOLE SECTIONS SHALL BE JOINTED WITH A MASTIC COMPOUND PRODUCING A WATER TIGHT BOND. THE REMAINING SPACE SHALL BE FILLED WITH CEMENT MORTAR AND FINISHED SO AS TO PRODUCE A SMOOTH CONTINUOUS SURFACE INSIDE AND OUTSIDE THE WALL SECTIONS.
9. ALL CONCRETE AND MORTAR USED IN MANHOLE CONSTRUCTION SHALL HAVE TYPE II CEMENT.
10. ALL SPACES AROUND PIPES ENTERING OR LEAVING MANHOLES SHALL BE COMPLETELY FILLED WITH EMBOCO MORTAR (NON-METALLIC) OR BONSAL (NON-SHRINKING).
11. TWO COATS OF KOPPERS 300-M SHALL BE APPLIED TO THE INTERIOR AND EXTERIOR SURFACE OF ALL MANHOLES. ONE COAT SHALL BE BLACK AND THE OTHER RED. A MINIMUM OF 24 HOURS BETWEEN COATS.
12. SANITARY MANHOLES AND LIDS SHALL BE CAPABLE OF WITHSTANDING AASHTO H-20 LOADING. CASTINGS SHALL BE OF CLOSE-GRAINED GREY CAST IRON CONFORMING TO ASTM A-48 CLASS 30 IRON.
13. ALL GRAVITY SEWER PIPE SHALL BE P.V.C. EXCEPT AS NOTED ON THE SANITARY SEWER PROFILES. DUCTILE IRON, IF NECESSARY, SHALL BE POLY-LINED AND MINIMUM CLASS 51.
14. PVC PIPE SHALL BE UNPLASTICIZED POLYVINYL CHLORIDE PLASTIC PIPE WITH INTEGRAL BELL CONTAINING A LOCKED IN RING AND SPIGOT JOINTS FOR GRAVITY SEWER CONSTRUCTION.
15. PVC PIPE SHALL MEET THE REQUIREMENTS OF ASTM DESIGNATION D 3034 - SDR 26 AND SHALL MEET THE REQUIREMENTS OF DR18. PVC COMPOUND FOR PIPE AND FITTINGS SHALL MEET THE REQUIREMENTS OF ASTM D1784.
16. ALL TRENCHING, PIPE LAYING, BACKFILL, TESTING, LAMPING, ETC. MUST COMPLY WITH THE BCWWS MINIMUM STANDARDS. ADDITIONALLY, ALL PIPE MUST BE BACKFILLED IN NO GREATER THAN 12" LIFTS AND EACH LIFT TAMPED & DENSITY TESTED, UNLESS OTHERWISE APPROVED BY THE RECORD ENGINEER AND THE AGENCY HAVING JURISDICTION.
17. THE MINIMUM DESIGN SLOPES FOR GRAVITY SEWERS ARE AS FOLLOWS:  
 FOR P.V.C.: 8" - 0.30% 10" - 0.30% 12" - 0.20%  
 FOR D.I.P.: 8" - 0.30% 10" - 0.30% 12" - 0.20%
18. P.V.C. LINES ENTERING OR LEAVING MANHOLES SHALL HAVE ASBESTOS MANHOLE COUPLINGS BY JOHN MANVILLE OR APPROVED EQUAL.
19. ALL CONNECTIONS TO EXISTING MAINS SHALL BE MADE UNDER THE DIRECTION OF THE BCWWS UTILITY INSPECTOR & THE RECORD ENGINEER.
20. THE CONTRACTOR SHALL TEST THE COMPLETED SEWER LINE TO DETERMINE ALIGNMENT AND TIGHTNESS OF THE JOINTS. TESTING SHALL BE LAMPED AND MUST SHOW A FULL CIRCLE OF LIGHT. IF INFILTRATION AND EXFILTRATION TESTING IS TO BE REQUIRED, LEAKAGE SHALL NOT EXCEED 0.16 GALLONS PER HOUR PER INCH DIAMETER PER 100 FEET WHEN FIELD TESTED.
21. FINAL LAMPING TEST SHALL BE PERFORMED AFTER THE LIMELOCK BASE IS PLACED AND COMPACTED TO THE REQUIRED DENSITY. ALL DENSITY TESTS SHALL PASS DENSITY REQUIREMENT PRIOR TO LAMPING TEST.
22. INSTALL ELECTRONIC MARKER AT THE END OF EACH TERMINAL SEWER LATERAL.
23. CONSTRUCTION OF THE SANITARY SEWER IS TO BEGIN AT THE SYSTEM OUTFALL (LOW POINT), AND CONTINUE IN AN UPWARD FASHION TO THE SYSTEM HIGH POINT. THERE SHALL BE NO EXCEPTIONS UNLESS A WRITTEN REQUEST TO THE RECORD ENGINEER IS APPROVED BY THE RECORD ENGINEER.
24. ALL DIP FORCE MAIN OR GRAVITY MAIN SHALL BE POLY-LINED FOR RAW SEWERAGE AND BE DIP CLASS 51 OR BETTER.
25. IN ACCORDANCE WITH FLORIDA STATUTE 90-096 FS, KNOWN AS "THE FLORIDA TRENCH SAFETY ACT", CONTRACT BID DOCUMENTS MUST IDENTIFY ALL COSTS AND METHODS OF TRENCH EXCAVATIONS EXCEEDING (5) FIVE FEET IN DEPTH.

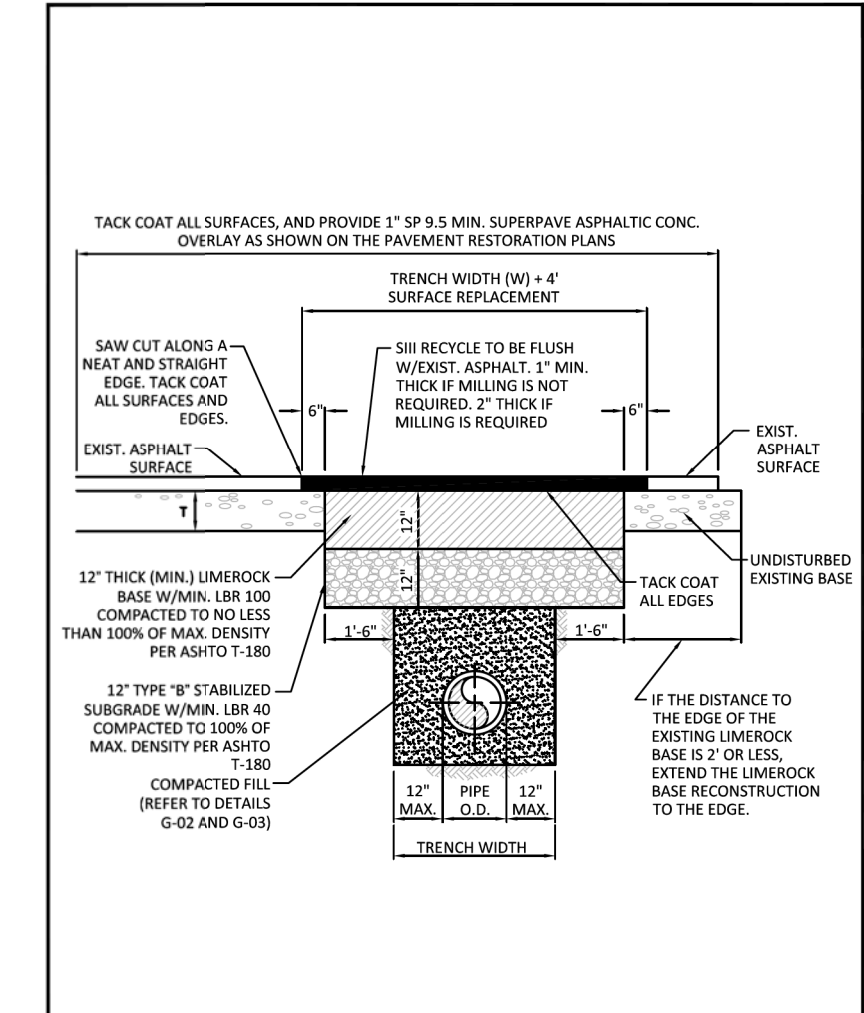
THE CONTRACTOR IS RESPONSIBLE THAT ALL SHEETING AND SHORING INSTALLED COMPLY WITH OSHA EXCAVATION STANDARDS 29 C.F.R. 1926.650 SUBPART P. THE CONTRACTOR MUST EVALUATE GEOTECHNICAL DATA AND DESIGN THE TRENCH SAFETY SYSTEM ACCORDINGLY.

THE CONTRACTOR MUST SUBMIT A LETTER, TO THE ENGINEER, ACKNOWLEDGING THAT HE HAS COMPLIED WITH THE FORGING PRIOR TO CONSTRUCTION.

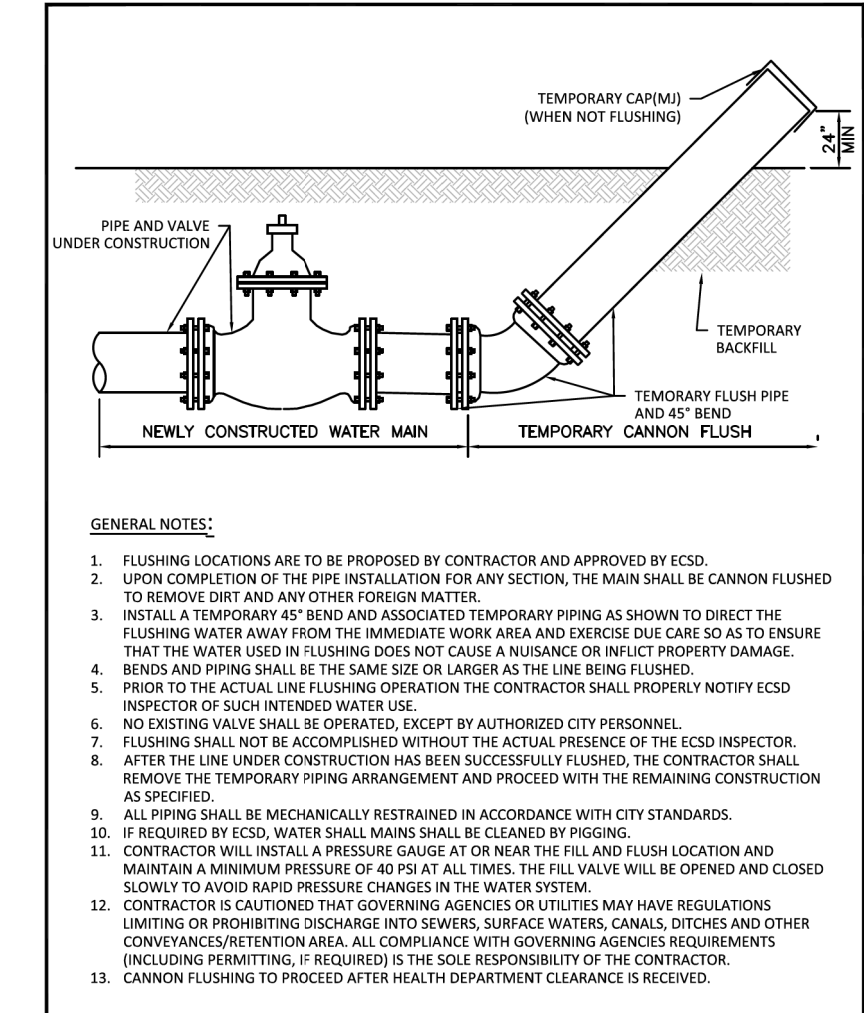
**FLEXIBLE PAVEMENT RESTORATION NOTES:**

1. THE ABOVE DETAILS APPLY ONLY TO ASPHALT PAVEMENT RESTORATION OVER UTILITY TRENCHES CUT WITHIN CITY OF HOLLYWOOD RIGHTS OF WAY FOR PAVEMENT RESTORATION WITHIN BROWARD COUNTY OR FOOT RIGHTS OF WAY REFER TO THE CORRESPONDING DETAILS FOR THOSE AGENCIES.
2. LIMELOCK BASE MATERIAL SHALL HAVE A MINIMUM L.B.R. OF 100 AND A MINIMUM CARBONATE CONTENT OF 70%. REPLACED BASE MATERIAL OVER TRENCH SHALL BE A MINIMUM OF 12" THICK.
3. LIMELOCK BASE MATERIAL SHALL BE PLACED IN 12" MAXIMUM (LOOSE MEASUREMENT) THICKNESS LAYERS WITH EACH LAYER THOROUGHLY ROLLED OR TAMPED AND COMPACTED TO 90% OF MAXIMUM DENSITY, PER AASHTO T-99, PRIOR TO THE PLACEMENT OF THE SUCCEEDING LAYERS.
4. STABILIZED SUBGRADE MATERIAL SHALL BE GRANULAR AND SHALL HAVE A MINIMUM L.B.R. OF 40.
5. BACKFILL SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH THE PIPE LAYING CONDITION TYPICAL SECTION IN DETAILS G-10 AND G-11, AND THE SPECIFICATIONS, BUT TESTING WILL BEGIN 12" ABOVE THE INSTALLED FACILITY.
6. ALL EDGES AND JOINTS OF EXISTING ASPHALT PAVEMENT SHALL BE SAW CUT TO STRAIGHT LINES, PARALLEL TO OR PERPENDICULAR TO THE ROADWAY, PRIOR TO THE RESURFACING.
7. RESURFACING MATERIAL SHALL BE FOOT SUPERPAVE, AND SHALL BE APPLIED A MINIMUM OF TWO INCH IN THICKNESS.
8. MILL AND BUTT JOINT TO EXISTING PAVEMENT.
9. IF THE TRENCH IS FILLED TEMPORARILY, IT SHALL BE COVERED WITH A 2" ASPHALT CONCRETE PATCH TO KEEP THE PAVEMENT FROM BEING OVER REPAVED WITH A PERMANENT PATCH.
10. REFER TO SPECIFICATIONS FOR DETAILED PROCEDURES.
11. WHERE THE UTILITY TRENCH CROSSES EXISTING ASPHALT DRIVEWAYS, THE LIMELOCK BASE THICKNESS MAY BE A MINIMUM OF 6 INCHES THICK, REGARDLESS OF THE EXTENT OF IMPACT, THE ENTIRE DRIVEWAY SURFACE BETWEEN THE EDGE OF THE ROADWAY PAVEMENT AND PROPERTY LINE OR FRONT OF SIDEWALK SHALL BE OVERLAIN USING 2 INCH THICK MINIMUM ASPHALTIC CONCRETE SURFACE COURSE WHERE INDICATED ON THE PLANS OR AS DIRECTED BY THE CITY ENGINEER.

ISSUED: 05/01/09 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2014  
 DRAWN: EAP FLEXIBLE PAVEMENT RESTORATION NOTES DRAWING NO. G-12  
 APPROVED: KJK



ISSUED: 05/01/09 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2014  
 DRAWN: EAP FLEXIBLE PAVEMENT RESTORATION FOR TRENCHES CUT PERPENDICULAR AND PARALLEL TO THE ROADWAY DRAWING NO. G-12.1  
 APPROVED: KJK



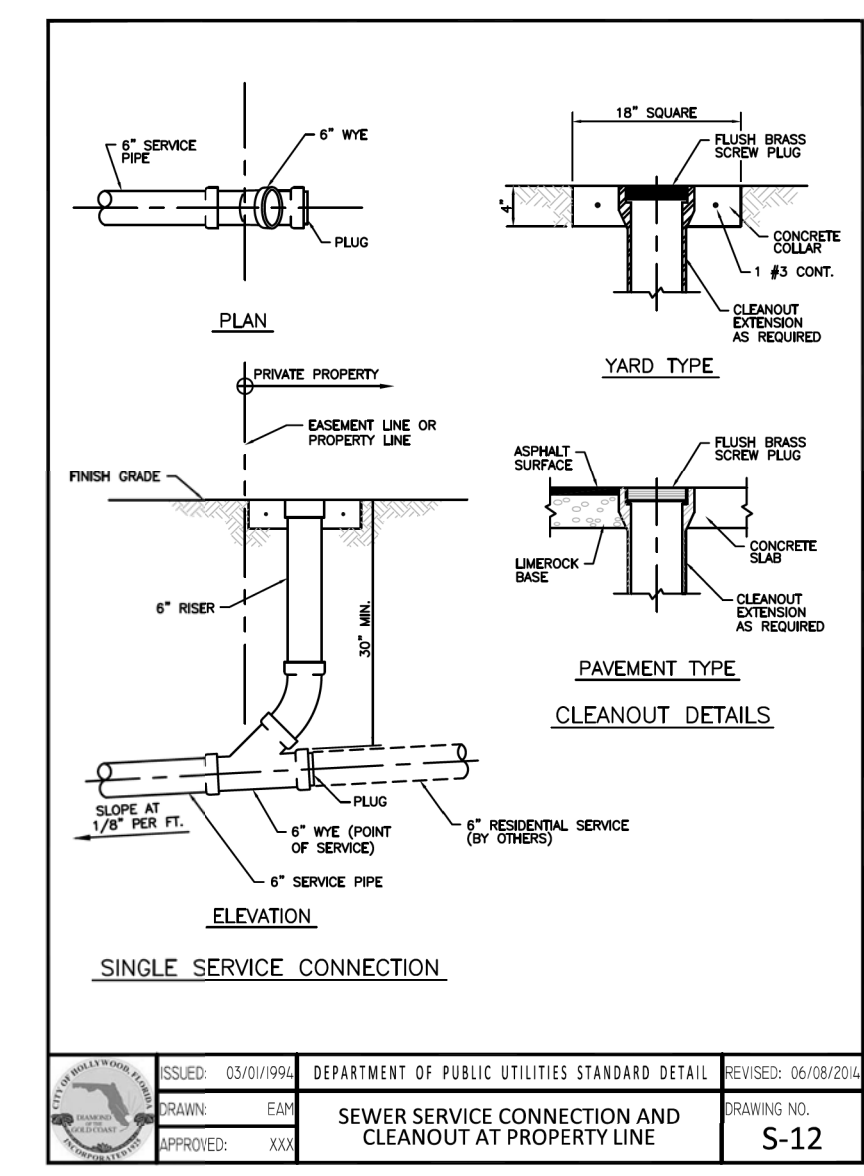
ISSUED: 05/01/09 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2014  
 DRAWN: EAP CANNON FLUSHING DRAWING NO. G-13  
 APPROVED: KJK

**SEWER NOTES:**

1. THE MINIMUM DEPTH OF COVER OVER D.I.P. SANITARY SEWER SERVICE OR FORCE MAINS IS 30". THE MINIMUM DEPTH OF COVER OVER PVC SANITARY SEWER OR FORCE MAINS IS 32".
2. ALL CONNECTIONS TO EXISTING MAINS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. LEAKAGE TESTS AND ALIGNMENT (LAMPING) TESTS SHALL BE PERFORMED ON ALL NEW SEWER LINES UP TO THE CONNECTION POINT WITH THE EXISTING SEWER SYSTEM. THESE TESTS SHALL BE REQUESTED AND PAID FOR BY THE CONTRACTOR.
4. LAMPING TESTS SHALL BE PERFORMED ON GRAVITY SEWERS FROM MANHOLES TO MANHOLE UP TO AND INCLUDING THE POINT OF CONNECTION TO THE EXISTING SEWER SYSTEM.
5. LEAKAGE TESTS SHALL BE PERFORMED ON ALL SEGMENTS OF A GRAVITY SEWER SYSTEM, INCLUDING SERVICE LATERALS AND MANHOLES, FOR A CONTINUOUS PERIOD OF NO LESS THAN 2 HOURS. AT THE END OF THE TEST, THE TOTAL MEASURED LEAKAGE SHALL NOT EXCEED 1.0 GALLON PER INCH OF PIPE DIAMETER PER 100 FEET FOR ANY SECTION OF THE SYSTEM, WITH ZERO ALLOWABLE LEAKAGE FOR LATERALS AND MANHOLES. AN EXFILTRATION OR INFILTRATION TEST SHALL BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET ON THE SECTION BEING TESTED.
6. FORCE MAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH RULE 62-555.330 (FAC). THE PRESSURE TEST SHALL CONSIST OF HOLDING A TEST PRESSURE OF 150 PSI ON THE PIPELINE FOR A CONTINUOUS PERIOD OF 2 HOURS. THE MAXIMUM ALLOWABLE LEAKAGE SHALL BE DETERMINED BY THE FOLLOWING FORMULA:  

$$L = \frac{1.5 \times D^3 \times P}{14400}$$
 WHERE:  
 L = ALLOWABLE LEAKAGE FOR SYSTEM IN GALLONS PER HOUR  
 D = PIPE DIAMETER IN INCHES  
 P = LENGTH OF LINES IN LINEAL FEET  
 P = AVERAGE TEST PRESSURE IN PSI
7. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING CONTACTS WITH FORCE MAINS PLACED AT MINIMUM COVER. IN CASE OF CONTACT, FORCE MAIN SHALL BE COVERED TO PASS UNDER CONTACTS WITH 12" MINIMUM SEPARATION FROM MANHOLE MAINS AND 6" MINIMUM SEPARATION FROM OTHER UTILITIES. NO ADDITIONAL PAYMENT SHALL BE DUE TO CONTRACTOR FOR LOWERING THE MAIN OR THE ADDITIONAL FITTINGS USED THEREIN.
8. WHENEVER IT IS NECESSARY, IN THE INTEREST OF SAFETY, TO BRACE THE SIDES OF A TRENCH, THE CONTRACTOR SHALL FURNISH, PUT IN PLACE AND MAINTAIN SUCH SHEETING OR BRACING AS MAY BE NECESSARY TO SUPPORT THE SIDES OF THE EXCAVATION TO ENSURE PERSONNEL SAFETY, AND TO PREVENT MOVEMENT WHICH CAN IN ANY WAY DAMAGE THE WORK OR ENDANGER ADJACENT STRUCTURES. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SEQUENCE, METHODS AND MEANS OF CONSTRUCTION, AND FOR THE IMPLEMENTATION OF ALL OSHA AND OTHER SAFETY REQUIREMENTS.

ISSUED: 05/01/09 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2014  
 DRAWN: EAP SANITARY SEWER MAIN CONSTRUCTION NOTES DRAWING NO. S-01  
 APPROVED: KJK



ISSUED: 05/01/09 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2014  
 DRAWN: EAP SEWER SERVICE CONNECTION AND CLEANOUT AT PROPERTY LINE DRAWING NO. S-12  
 APPROVED: KJK

SCALE:	DATE	REVISIONS	COMMENTS	DATE	REVISIONS	COMMENTS
NA	05/08/23	ADD THIS SHEET				
DRAWN BY:	HE.J					
CHECKED BY:	LJ					
APPROVED BY:	HE.J					

AJ HYDRO  
 ENGINEERING, INC.  
 5932 NW 73RD COURT  
 PARKLAND, FL 33067  
 TEL (954) 347-3397  
 AJHYDRO@BELLSOUTH.NET

PROJECT:  
**SKIPPERS DOCKSIDE**

TITLE:  
**CITY OF HOLLYWOOD  
 GENERAL WATER & SEWER  
 DETAILS & NOTES AND  
 SANITARY SEWER DETAILS**

SEAL:  
 HOWARD JABLON, PE  
 #47514

DATE:  
 10/25/22

DRAWING NO.  
 21-0100

SHEET NO.  
 WS3 OF 4

WATER SYSTEM NOTES:

- 1. NEW OR RELOCATED UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT THAT WILL CROSS ANY EXISTING OR PROPOSED SANITARY OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER WILL BE LAID TO THE OUTSIDE OF THE WATER MAIN AT LEAST SIX INCHES ABOVE THE OTHER PIPELINE OR AT LEAST 12 INCHES BELOW THE OTHER PIPELINE.

ISSUED: 05/01/09 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2014
DRAWN: EAP WATER SYSTEM NOTES DRAWING NO. W-01
APPROVED: XXX

WATER SYSTEM NOTES (CONTINUED):

- 11. WATER MAIN INSTALLATIONS SHALL COMPLY WITH THE COLOR CODING REQUIREMENTS OF CHAPTER 62-555.330 F.A.C.
12. ALL PVC PIPE SHALL CONFORM TO THE REQUIREMENTS OF ANSI/AWWA C900 LATEST REVISION AND CLASS OR BE ALL OF WATER MAINS SHALL BE DUCTILE IRON PIPE PRESSURE CLASS 300 WITH WALL THICKNESS CONFORMING WITH CLASS 52.

ISSUED: 05/01/09 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2014
DRAWN: EAP WATER SYSTEM NOTES DRAWING NO. W-02
APPROVED: XXX

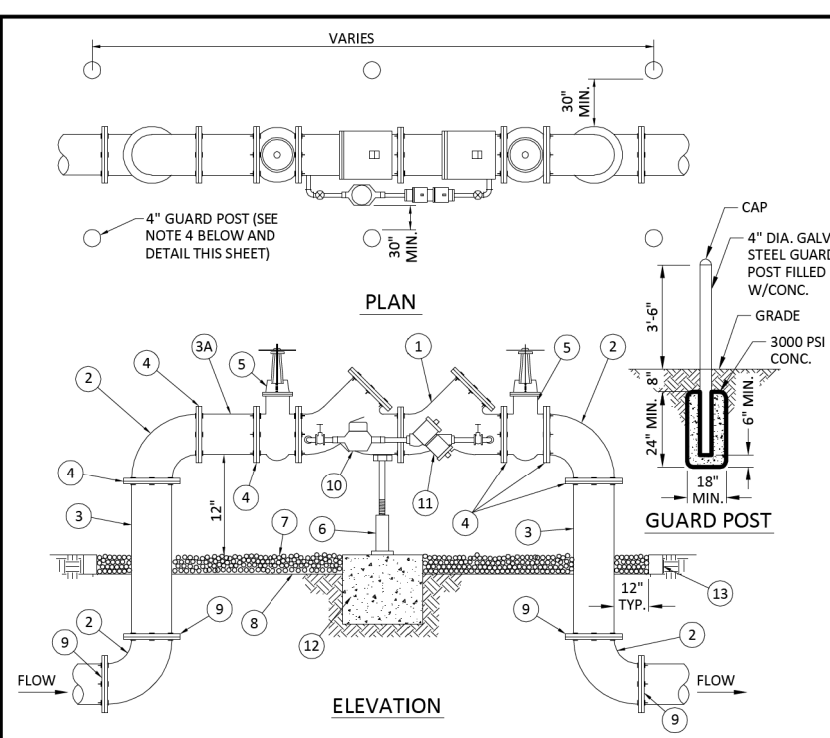
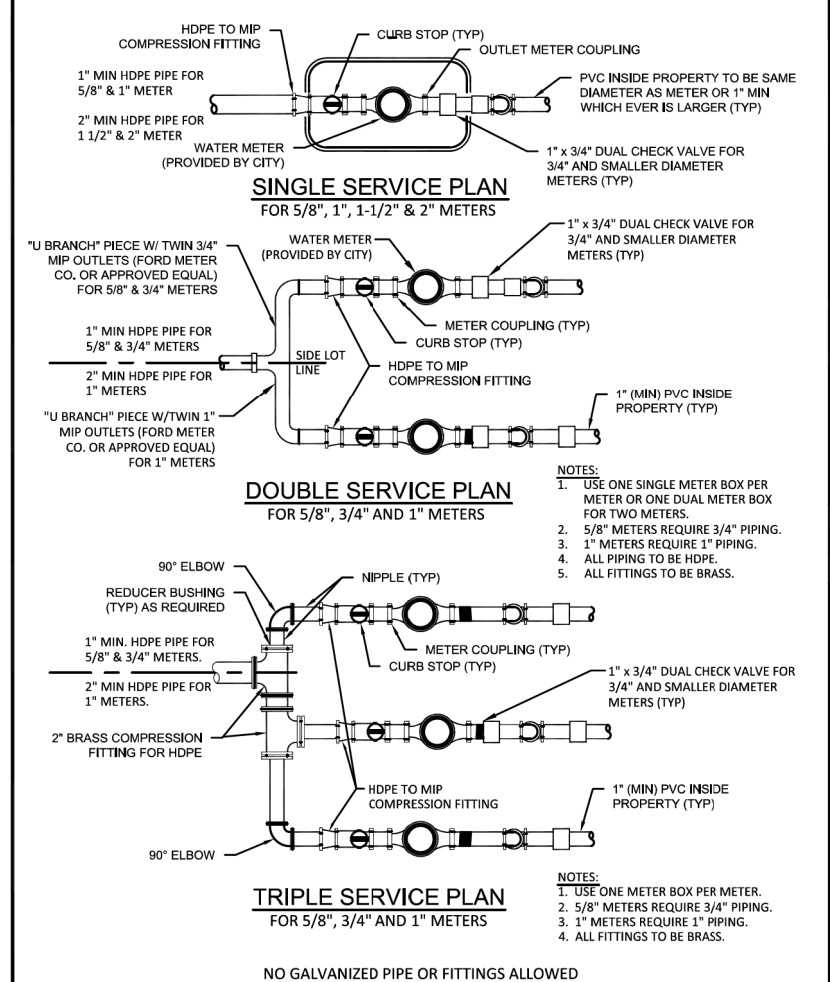


Table with 2 columns: ITEM, QTY, DESCRIPTION. Lists materials like 4" DIA. GALV. STEEL GUARD POST, 4" DIA. GALV. STEEL GUARD POST, etc.

ISSUED: 05/01/09 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2014
DRAWN: EAP TYPICAL 4" AND 6" DOUBLE CHECK DETECTOR ASSEMBLY FOR FIRE SPRINKLER SERVICE (90° BENDS) DRAWING NO. W-03
APPROVED: XXX

WATER DISTRIBUTION SYSTEM NOTES



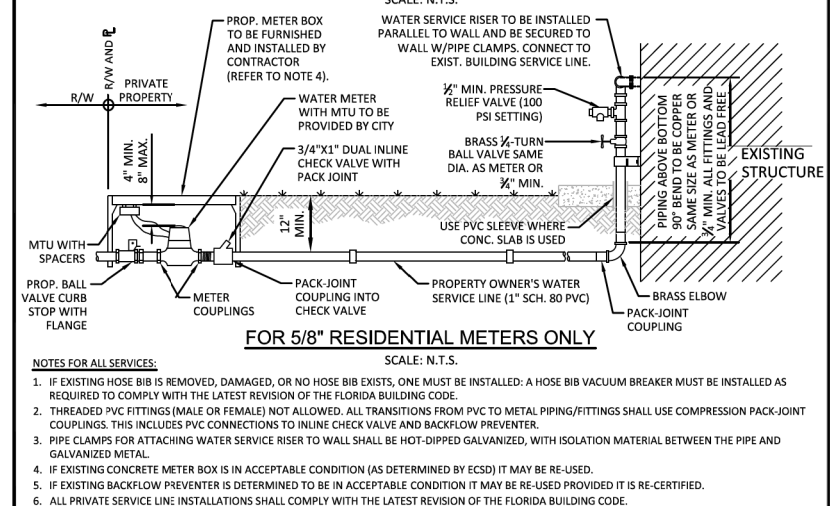
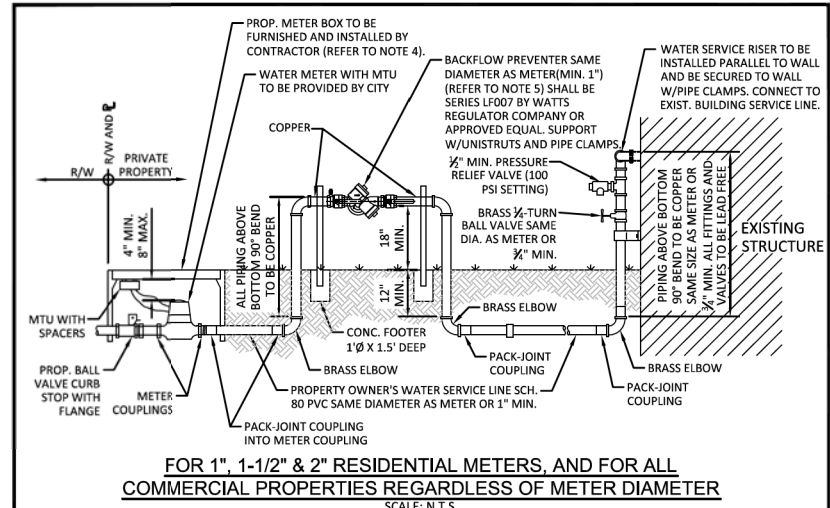
ISSUED: 05/01/09 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2014
DRAWN: EAP TYPICAL 5/8", 1", 1-1/2" AND 2" METER INSTALLATION DRAWING NO. W-06
APPROVED: XXX

- 1. ALL DUCTILE IRON PIPE MUST BE A MINIMUM CLASS 51. PIPE SIZES SHALL CONFORM TO AWWA C110/A21.10-98. ALL DUCTILE IRON PIPE SHALL BE CONFORM TO THE REQUIREMENTS OF ANSI/AWWA C151/A21.51-02 AND BE CEMENT MORTAR LINED AND SEAL COATED PER ANSI/AWWA C104/A21.4-95. LATEST REVISION. ALL WATER REUSE MAINS SHALL BE COLORED PURPLE.

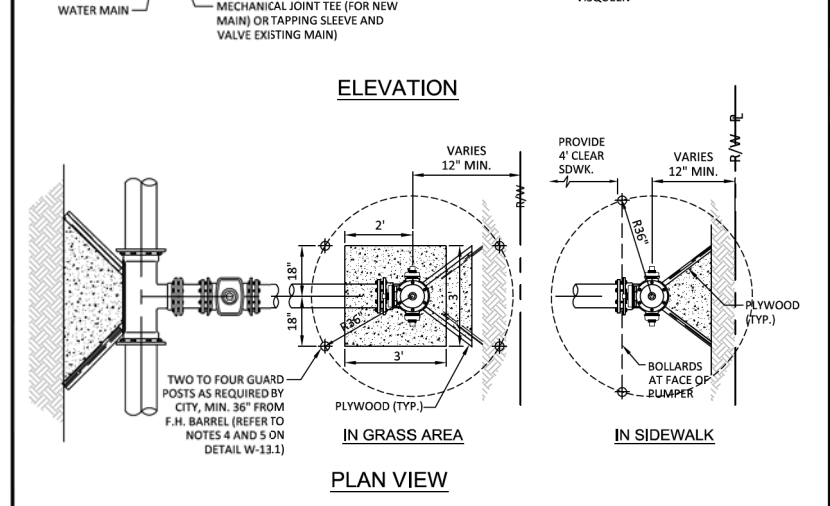
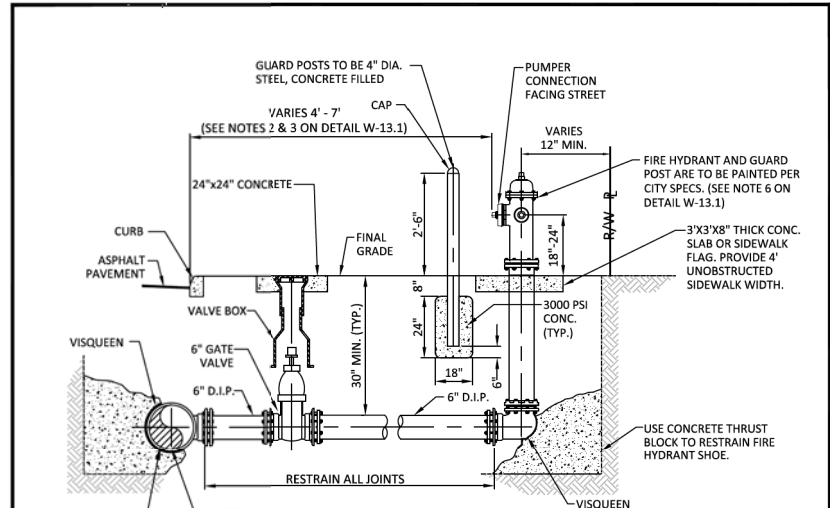
WATER METER SERVICE NOTES:

- 1. SUCCESSFUL TAPS INTO THE WATER MAIN SHALL BE SPACED NOT LESS THAN 12" ON CENTER.
2. P.E. TUBING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF AWWA STANDARD C900. POLYETHYLENE (PE) SERVICE PIPE AND TUBING, 1/2 IN. (3/8 IN.) THROUGH 1 IN. (3/4 IN.), FOR WATER SERVICE.

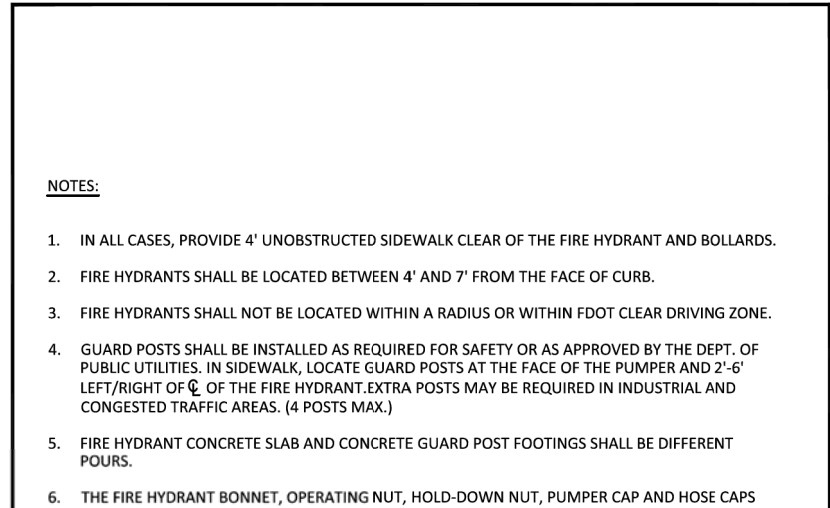
ISSUED: 05/01/09 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2014
DRAWN: EAP WATER METER SERVICE NOTES FOR 5/8" THROUGH 2" METERS DRAWING NO. W-07
APPROVED: XXX



ISSUED: 05/01/09 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2014
DRAWN: EAP TYPICAL WATER SERVICE FROM METER TO STRUCTURE FOR 6" THROUGH 2" METERS DRAWING NO. W-10
APPROVED: XXX



ISSUED: 05/01/09 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2014
DRAWN: EAP TYPICAL FIRE HYDRANT INSTALLATION DRAWING NO. W-13
APPROVED: XXX



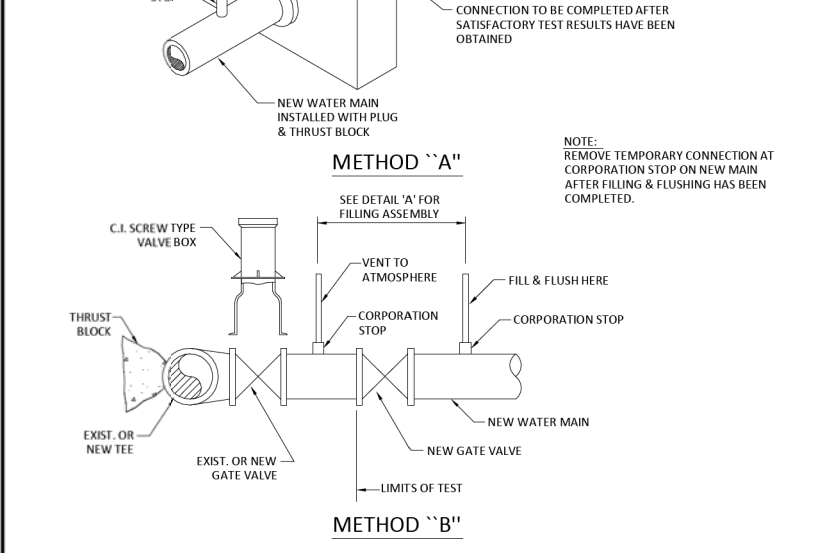
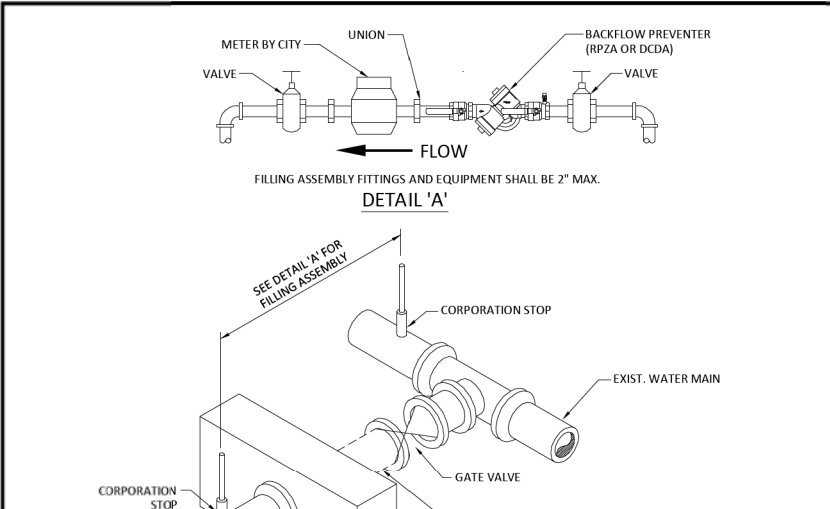
ISSUED: 05/01/09 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2014
DRAWN: EAP TYPICAL FIRE HYDRANT NOTES DRAWING NO. W-13.1
APPROVED: XXX

- 1. ALL CASES, PROVIDE 4' UNOBSTRUCTED SIDEWALK CLEAR OF THE FIRE HYDRANT AND BOLLARDS.
2. FIRE HYDRANTS SHALL BE LOCATED BETWEEN 4' AND 7' FROM THE FACE OF CURB.
3. FIRE HYDRANTS SHALL NOT BE LOCATED WITHIN A RADIUS OR WITHIN FOOT CLEAR OF THE DEPTH OF PUBLIC UTILITIES IN SIDEWALK, LOCATE GUARD POSTS AT THE FACE OF THE PAVEMENT AND 2'-0" LEFT/RIGHT OF E OF THE FIRE HYDRANT. EXTRA POSTS MAY BE REQUIRED IN INDUSTRIAL AND CONGESTED TRAFFIC AREAS (4 POSTS MAX).

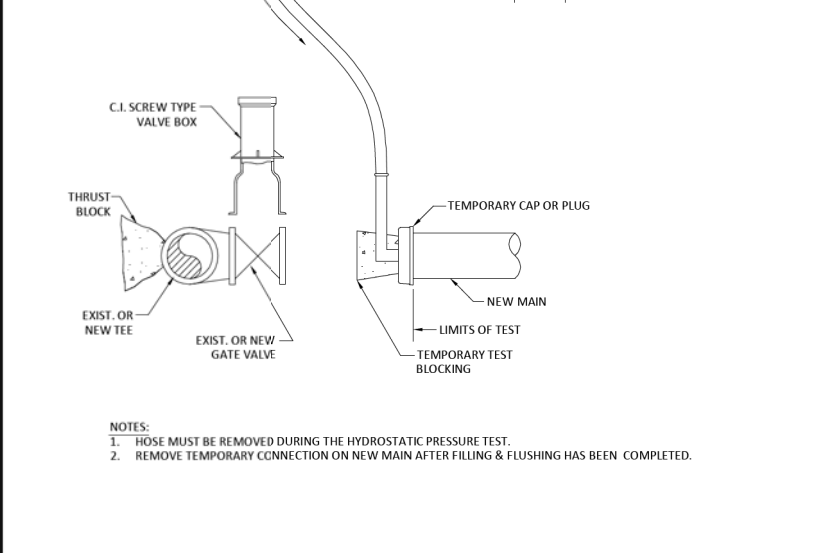
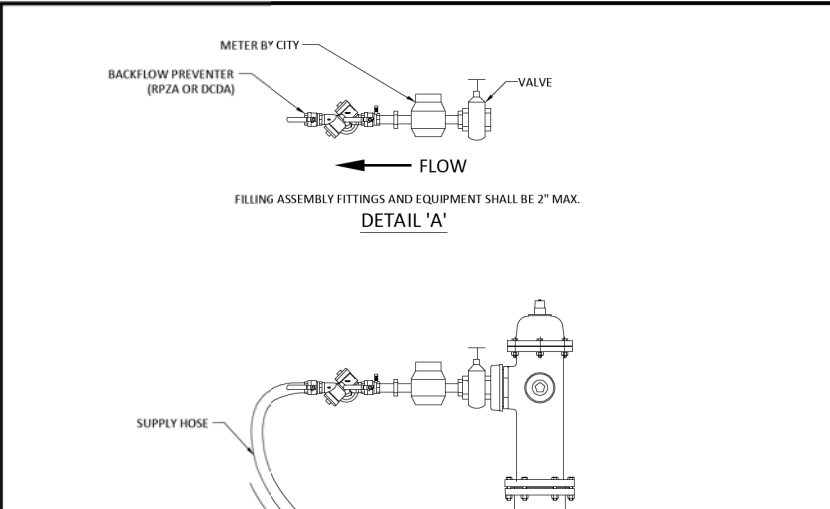
WATER MAIN TESTING AND DISINFECTION NOTES:

- 1. NO CONNECTIONS TO THE EXISTING LINES SHALL BE MADE UNTIL THE PRESSURE AND BACTERIOLOGICAL TESTS HAVE BEEN PERFORMED ON THE PROPOSED WATER MAINS AND THE SYSTEM HAS BEEN APPROVED BY THE CITY OF HOLLYWOOD AND THE BROWARD COUNTY HEALTH DEPARTMENT.

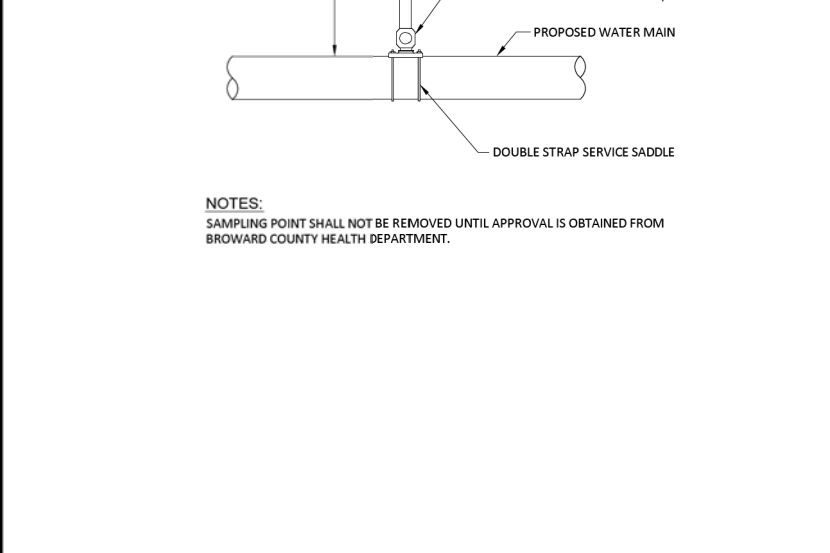
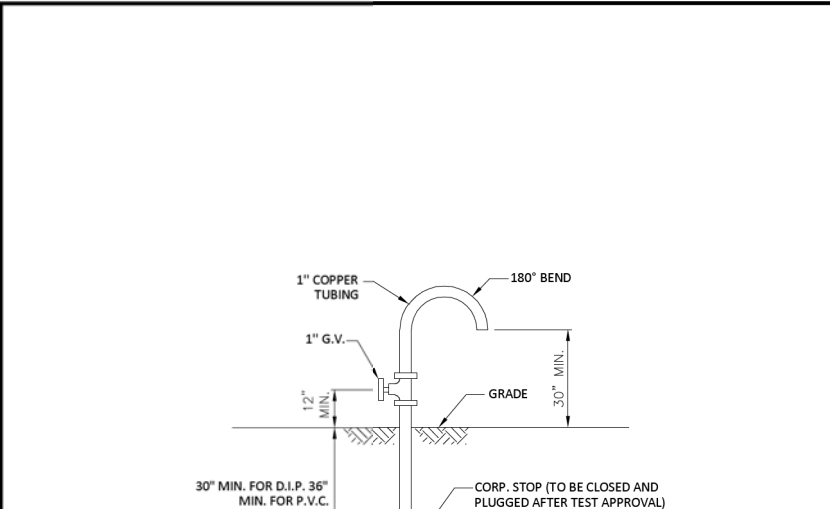
ISSUED: 05/01/09 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2014
DRAWN: EAP WATER MAIN TESTING AND DISINFECTION NOTES DRAWING NO. W-14
APPROVED: XXX



ISSUED: 05/01/09 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2014
DRAWN: EAP FILLING AND FLUSHING DETAILS DRAWING NO. W-15
APPROVED: XXX



ISSUED: 05/01/09 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2014
DRAWN: EAP CROSS CONNECTION FILLING AND FLUSHING DETAILS DRAWING NO. W-15.1
APPROVED: XXX



ISSUED: 05/01/09 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2014
DRAWN: EAP SAMPLING POINT DETAIL DRAWING NO. W-16
APPROVED: XXX

SCALE: NA REVISIONS COMMENTS DATE COMMENTS PROJECT: AJ HYDRO ENGINEERING, INC. 5932 NW 73RD COURT PARKLAND, FL 33067 TEL (954) 347-3397 AJHYDRO@BELLSOUTH.NET TITLE: CITY OF HOLLYWOOD WATER DISTRIBUTION SYSTEM DETAILS & NOTES SEAL: HOWARD JABLON, PE #47514 DATE: 10/25/22 DRAWING NO. 21-0100 SHEET NO. WS4 OF 4