ABBREVIATIONS

2009-2000	\$10.5 mm/d/cm	9.700		
BV.	ABOVE	H.C.	HOLLOW CORE	1
COUS.	ACOUSTICAL	HDWD.	HARDWOOD	
DJ.	ADJUSTABLE	HDWE.	HARDWARE	
L.	ALUMINUM	HGT.	HEIGHT	
PPROX.	APPROXIMATE	HORIZ.	HORIZONTAL	
ID.	BOARD	I.D.	INSIDE DIAMETER	
LDG.	BUILDING	INCAND.		
ILK.	BLOCK	INSUL.		
IOT.	воттом	INT.	INTERIOR	
AB.	CABINET	JT.	JOINT	
ER.	CERAMIC	LAM.	LAMINATE	
:.I.	CAST IRON	LAV.	LAVATORY	
LR.	CLEAR	LOC.	LOCATION	
OL.	COLUMN	MAX.	MAXIMUM	
ONC.	CONCRETE	MECH.	MECHANICAL	
ONN.	CONNECTION	MET.	METAL	
ONT.	CONTINUOUS	MFR.	MANUFACTURER	
TSK.	COUNTERSUNK	MIN.	MINIMUM	
ECOR.	DECORATIVE	MISC.	MISCELLANEOUS	
ET.	DETAIL	M.O.	MASONRY OPENING	
).F.	DOUGLAS FIR	MTD.	MOUNTED	
NA.	DIAMETER	MUL.	MULLION	
IM.	DIMENSION	N.I.C.	NOT IN CONTRACT	1 5
IN.	DOWN	NO. N.T.S.	NUMBER	
.S.	DOWN SPOUT	N.I.S.	NOT TO SCALE	
WG.	DRAWING		OVERALL	
Α.	EACH	OBS.	OBSCURE	
L.	ELEVATION	O.C.	ON CENTER	
LEV.	ELEVATOR	O.D.	OUTSIDE DIAMETER	
LEC.	ELECTRICAL		OFFICE	
Q.	EQUAL	OPNG.	OPENING	
XH.	EXHAUST	OPP.	OPPOSITE	
XP.	EXPANSION	PL.	PLATE	
XT.	EXTERIOR	PLAS.	PLASTER	
XIST.	EXISTING	PLYWD.	PLYWOOD	
.F.	FINISH FLOOR	PR.	PAIR	
LASH.	FLASHING	PRCST.	PRECAST	
LUOR.	FLUORESCENT	P.T. PTN.	PRESSURE TREATED	
Τ.	FOOT/FEET		PARTITION	
TG.	FOOTING	Q.T.	QUARRY TILE	
Α.	GAUGE	RAD.	RADIUS	

CIVIL ENGINEER:
CAULFIELD & WHEELER
7900 GLADES ROAD, SUITE 10
BOCA RATON, FLORIDA 33434
TEL: 561.392 1991
CONTACT: MATTHEWKAHN
EMAIL matthews

ROUGH OPENING
REDWOOD
REDWOOD
SOLID CORE
SCHEDULE
SHEET
SIMILAR
SOLIARE
STAINLESS STEEL
STANLESS STEEL
STORAGE
STRUCTURAL
SUSPENDED
SYMMETRICAL
TOP OF CURB
TOLEPHONE
TOLEPHONE
TOLEPHONE
TOLESS GROUGE
TOLESS GROUGE
TOLESS R.O.
RWD.
S.C.
SCHED
SHT.
SIM.
SQ.
SST.
STD.
STD.
STD.
STD.
STL
STOR
TEL.
T&G
THK.
T.O.C.
T.O.FR.
T.O.P.
T.O.P.
T.O.P.
U.O.N.

TOMEGRAM
TOP OF CHMINEY
TOP OF FRAMING
TOP OF LEDGER
TOP OF LATE
TYPICAL
TYPIC

CENTER LINE DIAMETER OR RO POUND OR NUMBI

PROJECT TEAM

MULTI-FAMILY RESIDENCE



CONSTRUCTION NOTES, SPECIFICATIONS AND GENERAL REQUIREMENTS

ARCHITECT'S STATUS:

THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR AND WILL NOT HAVE CONTROL OF A. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR AND WILL NOT HAVE CONTROL OF CHARGE OF CONSTRUCTION MEANS, METHODS. TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR THE SAFETY PRECAUTIONS AND THE CONTRACTION THE THE WORK, AND FOR SHE WILL NOT BE RESPONSIBLE FOR THE CONTRACTIONS FAILURE TO CARRY OUT THE WORK IN ACCORDANICE WITH THE CONTRACT OR SHALL RACHITECT SHALL NOT BE RESPONSIBLE OR HAVE CONTRACT OR CHARGE OVER THE ACT OR OMISSIONS OF THE CONTRACTOR. SUBCONTRACTOR OR ANY OF THEM AGENTS OR BURLDOWNS ON ANY OTHER PERSONS PERFORMANCHS OF ANY OF THEM AGENTS OR BURLDOWNS ON ANY OTHER PERSONS PERFORMANCHS ANY OF THE WORK.

CODES

A. ALL CODES HAVING JURISDICTION SHALL BE OBSERVED STRICTLY IN THE CONSTRUCTION OF THE PROJECT, INCLIDING ALL APPLICABLE STATE, CITY AND COUNUNILIDING, CONNE, ELECTRICAL, PLUMBING, LIFE SAFTY AND FIRE CODES. CONTRACT
SHALL VERIFY ALL CODE REQUIREMENTS AND BRING MY DISOREPANCY BETWEEN THE
CODES AND THE CONSTRUCTION DOCUMENTS TO THE ATTENTION OF THE ARCHITECT.

THE PROJECT WAS DESIGNED IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENT FOR REINFORCED CONCRETE (ACI 316.9 B DITTON). (AMERICAN INSTITUTE OF STEEL COORSTRUCTION) AND SAS DATION BETON BUILDING COOP REQUIREMENTS AND SPECIFICATIONS FOR MASORIEY STRUCTURES (ACI 530-134.SCE 5-13TMS 402-16), BUILDIN CODE REQUIREMENTS AND MASORIEY STRUCTURES (ACI 530-134.SCE 5-13TMS 402-16), BUILDIN CODE REQUIREMENTS AND NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION (ANSI/AFAPA NDS-3016).

. THESE PLANS AS DRAWN AND NOTED, COMPLY WITH THE BUILDING EN-FOUIREMENTS OF THE FLORIDA MODEL ENERGY CODE. CONTRACTOR S ACCORDANCE WITH ALL PROVISIONS OF THIS CODE. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE GOVERNING CODE IN IT'S ENTIRETY AND BUILD IN ACCORDANCE WITH ALL PROVISIONS OF THIS CODE.

PERMITS:

. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED BUILDING ND TRADE PERMITS AND FOR THEIR RESPECTIVE COSTS

JOB CONDITIONS:

A. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTAL OF BID AND. OR CONTRACT REGORATIONS. AND HE SHALL VERIFY EXISTING CONDITIONS WITH THE CONSTRUCTION DOCUMENTS SIGNERPANCIES BETWEEN CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ARCHITECTS A TIENTION IN WRITING FOR CLASHICATION BIDS SHALL NOT BE SUBMITTED OR CONSTRUCTION CONTRACTS NECOTIVED BY THE CONTRACTOR PRIOR TO CLASHICATION OF THE WITNIT OF THE CONSTRUCTION DOCUMENTS WHERE SUCH INTENT'S IN DOUBL'S ROCK CHARGES WILL NOT BE ACCEPTED.

. DIMENSIONS AND NOTES SHALL TAKE PRECEDENCE OVER SCALE AND GRAPHICS DO OT SCALE DRAWINGS.

C. IF WORK IS BEING PERFORMED IN AN EXISTING BUILDING AND / OR AS AN ADDITION OR ALTERATION(S) TO AN EXISTING BUILDING. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS WITH REFERENCE TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL SYSTEMS. ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND ELECTRICAL SYSTEMS. ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ACHITECTS ATTENTION IN WRITING PRIOR TO THE SUBMISSION OF BIDS OR CONTRACT NEGOTIATIONS. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE WORKE YITHOSS, SUPPLIERS. SUBCONTRACTORS AND OTHER PROVIDERS TO INSURE THAT THE WORK, WHEN COMPLETED WILL BE IN ACCORDANCE WITH THE INTERT OF THE CONSTRUCTION

). CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE BRACING OF STRUCTURAL A

WORK NECESSARY TO COMPLETE CONSTRUCTION:

A. IT IS THE PURPOSE OF THESE PLANS AND SPECIFICATIONS TO DESCRIBE A COMPLETE AND FINISHED PROJECT OTHER THAN ITEMS MARKED "N.I.C" (NOT IN CONTRACT)

I. THE CONTRACTOR SHALL MAINTAIN THE PREMISE CLEAN AND FREE OF ALL TRASH, BERIS, AND SHALL PROTECT ALL ADJACENT WORK FROM DAMAGE, SOILING, PAINT VYER-SPRAY, ETC, ALL FIXTURES, EQUIPMENT, BUZIAING FLOORS, ETC. SHALL BE LEFT LEAN AND READY FOR OCCUPANCY UPON COMPLETION OF THE PROJECT.

3. THE CONTRACTOR SHALL REPAIR AND / OR REPLACE ALL ITEMS DAMAGED BY THE PROCESS OF CONSTRUCTION AND SHALL FINISH ALL PATCHWORKS AND REPAIRS TO MATCH ADJACENT AREAS AND SURFACES

CLIMATE & GEOGRAPHIC DESIGN CRITERIA

I. PER 2023 FBC-RESIDENTIAL, TABLE R301.2(1), 'SUBJECT TO DAMAGE FROM'
WEATHERING IS CLASSIFIED AS <u>'NEGLIGIBLE</u>', TERMITE DAMAGE IS CLASSIFIED AS <u>'VERY</u>
[EBAY<u>'</u>, 'SEE ADDITIONAL NOTES UNDER EARTHWORK.

EARTH WORK

. AFTER STANDARD CLEANING AND GRUBBING HAS BEEN COMPLETED AND APPROVE PPLY VIBRATORY COMPACTOR WITH A MINIMUM OF FOUR PASSES.

D. SOIL SHALL BE COMPACTED TO 95% MODIFIED PROCTOR (ASTM D1557). TO A DISTAN DF S FEET BEYOND ALL BULIDINE COGES. AT LEAST ONE FIELD DENSITY TEST SHALL BE SERFORMED FOR EACH 2500 SOULABE FEET OF AREA. DENSITY TESTS ARE TO BE KINGE NOHES BELOW THE COMPACTED SURFACES. RESULTS OF PROCTOR TEST(S) AND FIELD SHENSITY TEST(S) SHALL BE FUNNISHED TO THE ARCHITECTENQUIREET.

F. TERMITE PROTECTION SHALL BE IN ACCORDANCE WITH SECTION 1816 OF THE FL BUILDING CODE 2023.

CONCRETE

GENERAL: ALL CONCRETE WORK SHALL CONFORM TO ALL RECOMMENDATIONS AND EQUIREMENTS OF ACI 318-19.

3. PORTLAND CEMENT: ASTM C-150 TYPES I OR II. LOW ALKALI, SILL TESTED AND CERTIFIED. USE TYPE V CEMENT FOR SOIL CONTAINING SULFATE CONCENTRATIC JORE THAN 0.2 PPECENT.

C. WATER: FROM DOMESTIC SOURCES, CLEAN, POTABLE, AND FREE FROM ALL OR OR OTHER DELETERIOUS MATERIALS.

AGGREGATES: ASTM C-33 FOR SLABS ON GRADE.

SAND: ASTM C-33 FOR SLABS ON GRADE.

. . FOUNDATIONS: INSTALL AS INCLUDED IN THESE DWG'S, OR AS AMENDED BY THE FINAL OILS REPORT.

G. VAPOR BARRIER: BENEATH SLASS TO BE 6 MIL. POLYETHYLENE.

H. CONCRETE SHALL BE READY MAY A HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 26 DAYS - EXCEPTION PILINGS SHALL BE 5,000 PSI ALL CONCRETE WORK SHALL COMPLY WITH REPORTMENTS OF THE ACI BUILDING CODE (ACI 314-19) THE ACI BETALL COMPLY WITH REPORTMENTS OF THE ACI BUILDINGS CODE (ACI 314-19) THE ACI BUILDINGS CODE SIDE STRUCTURAL OCNORETE FOR BUILDINGS (ACI 301-14) THE ACI BUILDINGS CODE FOR ONE REINFORCING STEELS SHALL BE AS REQUIRED BY THE LAST SIZES OTHERWISE SPECIFIE PLACE FABRICE; CLEAR FROM TOP OF THE SLASI IS USED ON SHAPE ALL WAY A MINIMUM OF 6 INCHES UN O. ALL REINFORCING STEEL SHALL BE MANUF, FROM HIGH STRENGTH BLUEST STEEL CHAPTER OF THE SLASI IS SIGNIFICATION AS 165 GRADE BUILDING ALBARS MINIMUM 48 DIA U.N.O. ON DRAWMISS, ALL HOCKS SHOWN IN REINFORCEMENT

REINFORCING STEEL:

. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS SET FORTH IN THE "MANUAL OF TANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" PUBLISHEY THE AMERICAN CONCRETE INSTITUTE, EXCEPT WHERE MORE EXACTING EQUIREMENTS ARE SPECIFIED IN THE CONTRACT DOCUMENTS.

MINIMUM CONCRETE COVERAGE OF REINFORCING STEEL.
 SLAB ON VAPOR BARRIER 2" (ELEVATED 1 ½")
 SEMANS AND COLAMINS 1 112"
 EMEMAS AND COLAMINS 1 112"
 UNFORMED BELOW GRADE 2"
 UNFORMED BELOW GRADE 3"
 FOOTING 3" (CLEAR AT BOTTOM & SIDES 2"CLEAR OF TOP
 WALLS 2" CLEAR OUTSIDE FACE, 1 112" CLEAR INSIDE
 SLABS 3" (CLEAR AT TOP (METRICRIP), 1)" CLEAR AT TOP (EXTERIOR)
 10" CLEAR TO STIRRIUPS
 COLUMNS 1 112" CLEAR TO TOE METRICRIPS
 TO COLUMNS 1 112" CLEAR TO TOE METRICRIPS

. REINFORCING MESH: ON-GRADE BUILDING SLABS SHALL BE ACI-318 ELECTRICALLY VELDED WARE FABRIC. SIZES AND GAUGES AS SHOWN ON THE DRAWINGS.

D. GENERAL BEAM NOTES:) SCHEDULE HOOPS OR STIRRUPS SHALL BE PLACED AT EACH END OF BEAM U.N.O.) BUNDLE ALL STR. BEAM TOP BARS IN PAIRS OVER SUPPORT W/TOP BARS FROM ADJ

BEAMS.

JAIL TIE BEAM REINFORCING SHALL EXTEND INTO SPAN OF ANY ADJ. STR. BEAM PER
STANDARD ASTM BENDING DIAGRAM.

JI TIE BEAM DEPINE ARE MIN. AND MAY BE INCREASED (8" MAX.) TO FIT BLOCK WORK AND
WINDOW AND DOOR HEEN'S ARE MIN. AND MAY BE INCREASED (8" MAX.) TO FIT BLOCK WORK AND
WINDOW AND DOOR HEEN'S ARE MIN.

JORD BETTOM OF THE BEAMS, AS REQUIRED, AT WINDOW & DOOR HEADS (28" MAX. BEAV
DEPTH) A BOD 218 BOTHOM, IP DROP EXCEEDS 8" UN O ON TALINS.

JORD BETTOM TO THE MEANS, AS REQUIRED, AT WINDOW & DOOR HEADS (28" MAX. BEAV
DEPTH) A BOD 218 BOTHOM IP DROP EXCEEDS 8" UN O ON TALINS.

THE TRUSS LAYOUT SHOWN ON CONSTRUCTION DOCUMENTS IS SCHEMATIC II A. THE TRUSS LAYOUT INSOWN ON CONS INCUTION DOCUMENT IS IS SCHEMAIL IN WATURE. HOWEVER, THE SUPPORTING SUPERSTRUCTURE HAS BEEN DESIGNED UNIT HE ASSUMPTION THAT THE FRAMING SCHEME SHOWN WILL CLOSELY PARALLEL THE HINLAL TRUSS HE, LAYOUT. THIS FRAMING SCHEME SHOWN WILL CLOSELY PARALLEL THE MEN ALTON THE STRUSSES. MAJOR SHOWN THE PROPERS HAVE SHOWN THE PRIVER PROPESSIONAL OF RECORD WHO MUST REVIEW PROPOSED CHAMISES AND MAKE STRUCTURAL REVISIONS ACCORDINGLY. FINAL SIGNED AND SEALED ENGI TRUSS DRAWINGS MUST BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR POURING OF FOUNDATION.

B. WOOD ROOF TRUSSES ARE TO BE DESIGNED FOR THE WOOD FABRICATOR BY A PROFESSIONAL SPECIALTY ENGINEER REGISTERED IN THE STATE OF FLORIDA. TRUSFFABRICATOR TO PROVIDE PRE-FABRICATED HANGERS AS REQUIRED.

. DESIGN, FABRICATION, AND INSTALLATION OF WOOD TRUSSES AND SHEET METAL ONNECTORS SHALL BE IN ACCORDANCE WITH THE FOLLOWING STANDARDS.

D. DESIGN SPECIFICATIONS FOR METAL PLATE CONNECTED WOOD ROOF TRUSSES PEF FIP 85: DESIGN SPECIFICATIONS FOR METAL PLATE CONNECTED PARALLEL CHORD TRUSSES PER PCT 80; HANDLING, INSTALLATION, RESTRAINING AND BRACING OF METAL PLATE CONNECTED WOOD TRUSSES PER BWT 76; HIB-91

CONCRETE UNIT MASONRY:

. THIS PROJECT IS DESIGNED AS ENGINEERED UNIT MASONRY. STRUCTURAL DESIGN HALL BE IN ACCORDANCE WITH ACI 530-13/ASCE 5-13/TMS 402-16, BUILDING CODE COULFEMENTS FOR MASONRY STRUCTURES AND THE COMMENTARY ON BUILDING CO EQUIREMENTS FOR MASONRY STRUCTURES. REFER TO STRUCTURAL PLANS.

B. REINFORGING STEEL: LAP REINFORGING NOT LESS THAN 48 BAR DIAMETERS AT S IN WALL REINFORGING. LAP HORIZONTAL REINFORGING A MIRMUM OF 15 AROUND PROGRESSES AND SHALL BE REINBEDDED IN GROUP I FALGING OF HORIZONTAL REINFORGING IN JOINTS OR MORTAR WILL NOT BE PERMITTED EXCEPT FOR WIRE JOI REINFORGING.

C. FOUNDATION DOWELS: SHALL NOT BE SLOPED MORE THAN ONE HORIZONTAL TO 6 VERTICAL TO ALIGN WITH BLOCK CORE.

). CLEAN OUT OPENINGS SHALL BE PROVIDED AT BOTTOM OF GROUTED CELLS. SEAI FFTER CLEANING AND INSPECTION. E. MASONRY UNITS SHALL BE ASTM C-90 TYPE II WITH MINIMUM COMPRESSIVE STRENN OF 1900 PSI ON NET AREA OF INDIVIDUAL UNITS. ALL CMU SHALL BE LAID IN A FULL BED MORTAR IN RUNNING BOND U.N.O. ALL REINFORCING STEEL SHALL BE MANUFACTURED FROM HIGH STRENGTH BILLET STEEL COMFORMING TO ASTM DESIGNATION A-615 GRAI

F. ALL MORTAR SHALL BE TYPE S IN ACCORDANCE WITH ASTM SPECIFICATION C-270
A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI AT 28 DAYS. NO TESTING FOR MOR
STRENGTH IS REQUIRED FOR THIS PROJECT.

S. GROUT SHALL BE A HIGH SLUMP MIX (8'-11') IN ACCORDANCE WITH ASTM SPECIFICATION C-475 HAVING A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI. NO TESTING FOR GROUT STRENGTH IS REQUIRED FOR THIS PROJECT.

PROVIDE 9 GAUGE HORIZONTAL JOINT REINFORCEMENT (LADDER TYPE ONLY) AT /ERY SECOND COURSE FOR ALL EXTERIOR WALLS.

I. ALL CONCRETE MASONRY BEARING AND SHEAR WALLS <u>MUST BE INSPECTED BY A QUALIFIED PRIGHEER JUST PRICE TO POURING OF THE FOUNDATION, IST & ZND FLORE BEAMS.</u> CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "SPECIOEATION FOR THE DESIGN AND CONSTRUCTION OF LOAD BEARING CONCRETE MASONRY PUBLISHED BY T NATIONAL CONCRETE MASONRY ASSOCIATION.

A. WORKMANSHIP: WORK SHALL COMPLY WITH A.I.S.C. LRFD 15TH EDITION, UNLESS MO EXACTING REQUIREMENTS ARE SPECIFIED IN THE CONTRACT DOCUMENTS.

B. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST AISC CODE. STRUCTURAL STEEL SHALL CONFORM TO ASTM SPECIFICATION A35. ALL STEEL TUBING SIPE SHALL CONFORM TO ASTM SPECIFICATION A35 CARDE TO FAMOR AS PROPERTY AND ASTOR CARDE TO FOR A SHORE COAT OF AUST INHIBITURE PAINT ALL SHOP AFTER THE ASTOR AS A SHORE COAT OF RUST INHIBITURE PAINT ALL SHOP AT A SHORE COAT OF A SHORE COAT OF A SHORE ASTOR AS A SHORE COAT OF A SHORE ASTOR AS A SHORE ASTOR AS A SHORE AS A

ROUGH CARPENTRY

N. ALL BEAMS INSTALLED WITH CROWN UP UNLESS OTHERWISE NOTED. CANTILEVERED JEAMS SHALL BE INSTALLED WITH CROWN DOWN.

. 3" MINIMUM BEARING BY BEAMS AND GIRDERS ON MASONRY OR CONCRETE. . PROVIDE 4"X4" POSTS OR (2) 2"X4" STUDS MINIMUM UNDER ALL BEAMS AND HEADERS NLESS OTHERWISE NOTED.

. ALL SUB-SILLS, OVER 8'-0" IN LENGTH SHALL BE DOUBLE 2"X4":

E. DOUBLE 2"X4"s, SPIKED TOGETHER W! 164'S @ 5" OIC STAGGERED MAY BE USED IN LIE OF 4"X4" POSTS WHERE CONTAINED WITHIN WALLS UNLESS SPECIFICALLY NOTED OTHERWASE ON PLANS.

G. BUILDING PAPER: FEDERAL SPECIFICATIONS UILS-780. INSTALL UNDER BOOFING ANTRIM AND CAREFULLY APPLY SO AS TO FORM A WATERTIGHT MEMBRANE. EACH COURS OF PAPER SHALL OVERLAD THE COURSE BEACHTH IT S MINIMAL. WHERE PAPER AND ANY O'DENING. THE PAPER SHALL BE CAREFULLY LAPPED OVER THE FRAME TO PREVENT THE STANKE OF THE PAPER SHALL BE CHARFULLY LAPPED OVER THE FRAME TO PREVENT THE STANKE OF THE PAPER AT EXTENDID DOORS AND WINDOW FRAMES.

I. ROOF SHEATHING: 19/32" THICK STANDARD PLYWOOD SHEATHING, EXTERIOR GLUE, C GRADE, 4 PLY, INDES 24/0, APA GRADE TRADEMARKED, APPLY WITH FACE GRAIN PERPENDICULANT TO SUPPORTS AND STAGGER JOINTS

J. HANGERS, FRAMING ANCHORS AND FASTENERS: STAMPED AMD FABRICATED STEEL OF THE TYPE INDICATED, NAILS TO BE THOSE FURNISHED OR RECOMMENDED BY MANUFACTURER FOR THIS SPECIFIC USE. NAILS SHALL BE FULLY DRIVEN IN ALL HOLES I THE ANCHOR, ALL HANGERS AND ANCHORS SHALL BE GALVANIZED. . DRAFT-STOPPING: IN FLOOR AND CEILING ASSEMBLIES NOT TO EXCEED 1,000 S/F. II TTICS FOR AREAS OVER 3,000 S/F

... FIRE-BLOCKING: INSTALL IN CONCEALED SPACES BOTH VERTICAL AND HORIZONT. SUCH AS BUT NOT LIMITED TO, STUD WALLS, FURRED SPACES, SOFFITS, DROP CEILIN COVES, STAIR STRINGERS (TOP AND BOTTOM) OPENINGS FOR VENTS, PIPES, DUCTS, CHIMMEYS, FLOOR JOISTS OR TRUSSES

SHOP DRAWINGS:

THE CONTRACTOR SHALL SUBMIT THREE COPIES OF ALL SHOP DRAWINGS, ALL ABRICATED ITEMS AND EQUIPMENT FOR ARCHITECT'S REVIEW PRIOR TO FABRIC ND COMMENCEMENT OF THE WORK.

CABINET SUPPLIER SHALL PROVIDE SHOP DRAWINGS

WINDOW AND DOOR SUPPLIER SHALL PROVIDE SHOP DRAWINGS SECTION AND DETAILS

ALL DETAILS, SECTIONS AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE PLUMBING FIXTURES:

TIMBER

A, STRUCTURAL TIMBER TO BE SOUTHERN PINE #2 (MIN.) STRESS GRADE LUMBER OR APPROVED EQUAL THE MIN. ALLOWANCE PROPERTIES ARE AS FOLLOWS: "FB = 1,150 PI P = 90 PSI E = 1,500,000 PSI AND PRESSURE TREATED FOR USE AGAINST CONCRETE AND MASONRY.

B. ALL TIMBER AND TIMBER CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS AND B. ALL IMBERVAND INSERT OF THE PROPERTY OF THE

ALL TIMBER CONNECTIONS ARE TO BE MADE USING PREFABRICATED CONNECTORS. TOE NAILING WILL NOT BE PERMITTED. SUBMIT MANUFACTURER'S DATE FOR APPROVAL ASTENERS TO BE AS MANUFACTURED BY USP OR SIMPSON.

LUMBER USED FOR LOAD SUPPORTING SHALL HAVE GRADE MARKS COMPLYING WITH ND PROCEDURES AND AGENCIES APPROVED BY US PROCEDURE PS 20-94.

PLYWOOD: PRODUCT STANDARD PS-1-73 AND RULES FOR DFPA GRADE TRADEMARKS FAMERICAN PLYWOOD ASSOCIATION. F, MARKING: WOOD AND LUMBER SHALL BE MARKED WITH IT'S GRADE AND PLYWOOD WITH IT'S GRADE TRADEMARK IN ACCORDANCE WITH THE REFERENCED STANDARDS. A PIECE WITH DEFECTS SHALL NOT BE USED REGARDLESS OF GRADING.

G. EXTERIOR PLYWOOD SHEATHING SHALL BE GROUP I STANDARD (C-D) EXT-DFPA, (C-C) EXT-DFPA, STRUCTURAL I (C-D) EXT-DFPA OR STRUCTURAL I (C-C) EXT-DFPA. DOORS AND WINDOWS:

A. PER FBC 406.3.2.1 DOOR OPENINGS BETWEEN THE GARAGE AND DWELLING TO BE SOUL CORE NOTLESS THAN 1½" THICK OR BE IN COMPLANCE WITH FBC 716.5.3 WITH A FIRE PROTECTION RATING NOT LESS THAN 20 MINUTES. DOORS SHALL BE SELF CLOSING AND SELF LATCHING.

:. DOORS , BATH & SHOWER ENCLOSURES, AND SLIDING GLASS DOORS CONTAIN SLAZING MATERIAL GREATER THAN 9 SOUARE FEET IN SURFACE AREA SHALL BE CLASSIFIED AS CATEGORY II AND SHALL BE CAPABLE OF WITHSTANDING A 400

D. THE GLAZING IN SLIDING AND SWINGING DOORS AND IN SHOWER OR TUB ENCLOSURE NCLUDING ANY GLAZING WITHIN 60 INCHES OF THE FINISHED FLOOR IN WALLS SURROUNDING TUB & SHOWER ENCLOSURES SHALL BE SAFETY GLAZED FOR CATEGORY SLAZING PRODUCTS.

F. EGRESS WINDOWS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF FOOLS. THEY SHALL PROVIDE A CLEAR OPENING OF NOT LESS 20" WIDE, 24" HIGH AND 5 SOLDARE FEET MINIMUM AREA. THE BOTTOM OF OPENING SHALL NOT BE MORE THAN 44" BOVE FLOOR AND LATCH AT 54" ABOVE FLOOR (MAX).

WINDOW UNITS SHALL DISP, LABELS SHOWING COMPLIANCE WITH THE FL ENERGY

H. ALL NEW SINGLE-FAMILY HOUSES, DUPLEXES, TRI-PLEXES, CONDOMINIUMS AND TOWNHOUSES SHALL PROVIDE AT LEAST ONE BATHROOM, LOCATED WITH MAX. POSSII PRIVACY, WHERE BATHROOMS ARE PROVIDED ON HABITABLE GRADE LEVELS, WITH A DOOR THAT HAS A MIN. 29' CLEAR OPENING. THERMAL MOISTURE PROTECTION:

A. INSULATION INSULATION SHALL BE PROVIDED AND INSTALLED PER FBC 2023 ENERGY CONSERVATION CODE. PRESCRIPTIVE REQUIREMENTS INCLUDE: MINIMUM OF RAJO CLG INSUL, IN CLIMATE ZONE 1, Rajo CLG INSUL, INCLIMATE ZONE 2, MASONRY WALLS A MINIMUM OF RAJIN CLIMATE ZONE 1, Rajo CLIMATE ZONE 2, PRAME WALLS A MINIMUM OF RAJIN COLIMATE ZONE 1, Rajo CLIMATE ZON

DESIGN PARAMETERS

BUILDING CLASSIFICATION: THREE STORY TOWNHOUSE

FBC 2023 CHAPTER 3, GROUP R-3 OCCUPANCY TABLE 504.4 CONSTRUCTION TYPE V-B

FLOOD ZONE: AE (2019 EL. 7 FT. NAVD)

WIND LOADS AS PER FBC 2023 EDITION AND ANSI/ASCE 7-22

THE FOLLOWING DESIGN PARAMETERS ARE REPEATED FROM THE STRUCTURAL DRAWINGS (SEE STRUCTURAL PLANS FOR ADDITIONAL STRUCTURAL NOTES/DESIGN PARAMETERS)

FLORIDA BUILDING CODE 2023 WIND EXPOSURE CLASSIFICATION: BASIC WIND SPEED INTERNAL PRESSURE COEFFICIENT BUILDING CATAGORY

IMPACT RESISTANT ASSEMBL

A001 COVER SHEET

CODE INFORMATION

LL RESIDENTIAL CONSTRUCTION SHALL COMPLY WITH SEVEN VOLUMES OF THE FLORIDA BUILDING CODE 2023 DITION. THE CODE IS COMPILED WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE ADOPTED BY EFERENCE. THE NATIONAL ELECTRICAL CODE IS REFERENCED STANDARN FIRST.

RESIDENTIAL POOL SAFETY ACT - CHAPTER 45 OF THE 2023 FBC RESIDENTIAL L DOORS AND WINDOWS PROVIDING DIRECT ACCESS FROM THE HOME TO THE POOL SHALL MEET THE QUIREMENTS OF RESIDENTIAL POOL SAFETY ACT SECTION R4501.17.1.9.

THE G.C. IS TO VERIFY THAT ALL ACCESS TO THE POOL AREA MEET THE SWIMMING POOL SAFETY ACT.

DRAWING INDEX

CS PP-1 PD-1 PD-1A PD-2 PD-2A PD-3 PD-4/5 WS-1 WS-2/3 LH-1 LP-1 LP-2 LP-3 LI-1	SURVEY COVER SHEET POLLUTION PREVENTION PLAN & DETAILS GENERAL NOTES PLAN DEMOLITION PLAN DEMOLITION PLAN PAVING & GRADING PLAN DRAINAGE PLAN PAVEMENT, MARKING & SIGNAGE PLAN PAVEMENT, MARKING & SIGNAGE PLAN WATER DISTRIBUTION, SANTARY SEWER AND UTILITY PLAN WATER DISTRIBUTION, & SANITARY SEWER DETAILS HARDSCAPE PLAN LANDSCAPE PLAN		
PP-1 PD-1 PD-1A PD-2 PD-2A PD-3 PD-4 / 5 WS-1 WS-2 / 3 LH-1 LP-1 LP-2 LP-3	COVER SHEET POLLUTION PREVENTION PLAN & DETAILS GENERAL NOTES PLAN DEMOLITION PLAN PAVING & GRADING PLAN PAVING & GRADING PLAN DRAINAGE PLAN PAVEMENT, MARKING & SIGNAGE PLAN PAVING & GRADING & DRAINAGE DETAILS WATER DISTRIBUTION, SANTARY SEWER AND UTILITY PLAN WATER DISTRIBUTION, & SANTARY SEWER DETAILS HARDSCAPE PLAN		
PP-1 PD-1 PD-1A PD-2 PD-2A PD-3 PD-4 / 5 WS-1 WS-2 / 3 LH-1 LP-1 LP-2 LP-3	POLLUTION PREVENTION PLAN & DETAILS GENERAL NOTES PLAN DEMOLITION PLAN PAVING & GRADING PLAN DRAINAGE PLAN PAVEMENT, MARKING & SIGNAGE PLAN PAVEMENT, MARKING & SIGNAGE PLAN PAVING & GRADING & DRAINAGE DETAILS WATER DISTRIBUTION, SANITARY SEWER AND UTILITY PLAN WATER DISTRIBUTION, & SANITARY SEWER DETAILS HARDSCAPE PLAN		
PP-1 PD-1 PD-1A PD-2 PD-2A PD-3 PD-4 / 5 WS-1 WS-2 / 3 LH-1 LP-1 LP-2 LP-3	POLLUTION PREVENTION PLAN & DETAILS GENERAL NOTES PLAN DEMOLITION PLAN PAVING & GRADING PLAN DRAINAGE PLAN PAVEMENT, MARKING & SIGNAGE PLAN PAVEMENT, MARKING & SIGNAGE PLAN PAVING & GRADING & DRAINAGE DETAILS WATER DISTRIBUTION, SANITARY SEWER AND UTILITY PLAN WATER DISTRIBUTION, & SANITARY SEWER DETAILS HARDSCAPE PLAN		
PD-1 PD-1A PD-2 PD-2A PD-3 PD-4/5 WS-1 WS-2/3 LH-1 LP-1 LP-2 LP-3	GENERAL NOTES PLAN DEMOLITION PLAN PAVING & GRADING PLAN DRAIKAGE PLAN PAVING & GRADING S SIGNAGE PLAN PAVING & GRADING & SIGNAGE PLAN PAVING & GRADING & DRAINAGE DETAILS WATER DISTRIBUTION, SANTARY SEWER AND UTILITY PLAN WATER DISTRIBUTION, & SANTARY SEWER DETAILS HARDSCAPE PLAN		
PD-1A PD-2 PD-2A PD-3 PD-4/5 WS-1 WS-2/3 LH-1 LP-1 LP-2 LP-3	DEMOLITION PLAN PAVING & GRADING FLAN DRAINAGE PLAN PAVEMENT, MARKING & SIGNAGE PLAN PAVING & GRADING & DRAINAGE DETAILS WATER DISTRIBUTION, SAWITARY SEWER AND UTILITY PLAN WATER DISTRIBUTION, SAWITARY SEWER DETAILS HARDSCAPE PLAN		
PD-2 PD-2A PD-3 PD-4/5 WS-1 WS-2/3 LH-1 LP-1 LP-2 LP-3	PAVING & GRADING PLAN DRAINAGE PLAN PAVEMENT, MARKING & SIGNAGE PLAN PAVING & GRADING & DRAINAGE DETAILS WATER DISTRIBUTION, SANTARY SEWER AND UTILITY PLAN WATER DISTRIBUTION, SANTARY SEWER DETAILS HARDSCAPE PLAN		
PD-2A PD-3 PD-4/5 WS-1 WS-2/3 LH-1 LP-1 LP-2 LP-3	DRAINAGE PLAN PAVEMENT, MARKING & SIGNAGE PLAN PAVIMENT, MARKING & SIGNAGE PLAN PAVIMIG & GRADING & DRAINAGE DETAILS WATER DISTRIBUTION, SANITARY SEWER AND UTILITY PLAN WATER DISTRIBUTION, & SANITARY SEWER DETAILS HARDSCAPE PLAN		
PD-3 PD-4/5 WS-1 WS-2/3 LH-1 LP-1 LP-2 LP-3	PAVEMENT, MARKING & SIGNAGE PLAN PAVING & GRADING & DRAINAGE DETAILS WATER DISTRIBUTION, SANITARY SEWER AND UTILITY PLAN WATER DISTRIBUTION, & SANITARY SEWER DETAILS HARDSCAPE PLAN		
PD-4/5 WS-1 WS-2/3 LH-1 LP-1 LP-2 LP-3	PAVING & GRADING & DRAINAGE DETAILS WATER DISTRIBUTION, SANITARY SEWER AND UTILITY PLAN WATER DISTRIBUTION, & SANITARY SEWER DETAILS HARDSCAPE PLAN		
WS-1 WS-2/3 LH-1 LP-1 LP-2 LP-3	WATER DISTRIBUTION, SANITARY SEWER AND UTILITY PLAN WATER DISTRIBUTION, & SANITARY SEWER DETAILS HARDSCAPE PLAN		
WS-2/3 LH-1 LP-1 LP-2 LP-3	WATER DISTRIBUTION, & SANITARY SEWER DETAILS HARDSCAPE PLAN		_
LH-1 LP-1 LP-2 LP-3	HARDSCAPE PLAN		
LP-1 LP-2 LP-3			_
LP-1 LP-2 LP-3			-
LP-2 LP-3	LANDSCAPE PLAN		_
LP-3			_
	PLANTING DETAILS & PLANT LIST		
LI-1	PLANTING SPECIFICATIONS		
	IRRAGATION PLAN		
LI-2	IRRAGATION SPECIFICATIONS & DETAILS		
TD-1	TREE DISPOSITION PLAN		
			_
A101	SITE PLAN		_
A201	FIRST FLOOR PLAN		
A202	SECOND FLOOR PLAN		
A203	THIRD FLOOR PLAN		
A204	ROOF PLAN		
(A300	RENDERINGS		
A301	ELEVATIONS		
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HIGHLAND BEACH BUILDING DEPARTMENT



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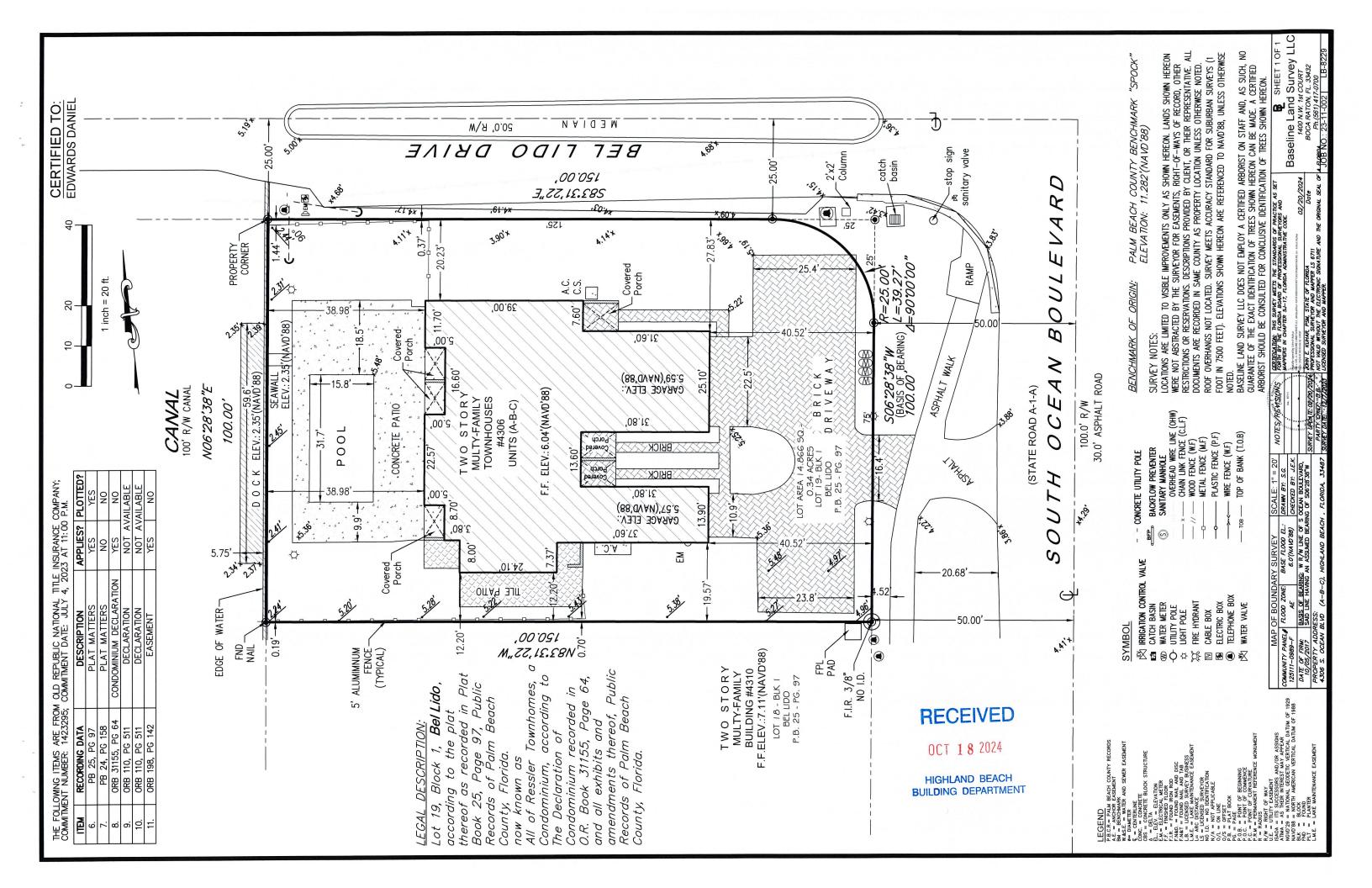
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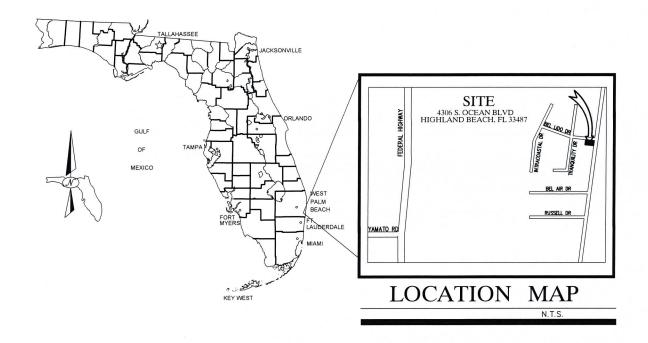
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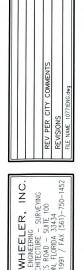
HIGHLAND BEACH BUILDING DEPARTMENT

EDWARDS DUPLEX

4306 S. OCEAN BLVD HIGHLAND BEACH, FL 33487 PROPOSED DUPLEX CIVIL SITE PLAN PACKAGE



SHEET	DESCRIPTION
CS	Cover Sheet
PP-1	Pollution Prevention Plan & Details
PD-1	General Notes Plan
PD-1A	Demolition Plan
PD-2	Paving & Grading Plan
PD-2A	Drainage Plan
PD-3	Pavement, Marking & Signage Plan
PD-4 to PD-5	Pavement, Marking & Signage Plan Paving & Grading & Drainage Details
WS-1	Water Distribution, Sanitary Sewer and Utility Plan
WS-2,WS-3	Water Distribution, & Sanitary Sewer Details



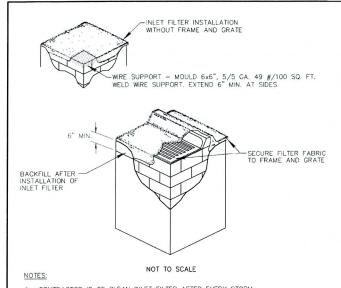
CAULFIELD & WHEELER,
CML ENGNEENCE
CML ENGNEENCE
ARCHIECTURE - SURVE
7900 GLADES ROAD - SURTE 10
BOCA RATON, FLORIDA 33434
PHONE (561)-392-1991 / FAX (561)-

EDWARDS DUPLEX
COVER SHEET
4306 S. OCEAN BLVD

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١	DRAWN	BY	JRH
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I	SCALE		NTS



JOB # 10771 SHT.NO. OF 12 SHEETS



1. CONTRACTOR IS TO CLEAN INLET FILTER AFTER EVERY STORM.

2. CONTRACTOR TO REMOVE FABRIC JUST PRIOR TO PAVING.

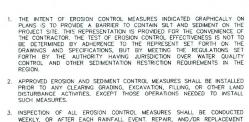
A SEDIMENT TRAP WILL BE EXCAVATED BEHIND THE CURB AT THE INLET. THE BASIN SHALL BE AT LEAST 12 TO 14 INCHES IN DEPTH, APPROXIMATELY 36 INCHES IN WIDTH, AND APPROXIMATELY 7 TO 10 FEET IN LENGTH PARALLEL TO THE CURB.

STORM WATER WILL REACH THE SEDIMENT TRAP VIA CURB CUTS ADJACENT TO EACH SIDE OF THE INLET STRUCTURE. THESE OPENINGS SHALL BE AT LEAST 12 INCHES IN LENGTH. STORM WATER MAY ALSO REACH THE BASIN VA OVERLAND FLOW LAND AREA BEHIND THE CURB. THE CURB CUTS SHALL BE REPAIRED WHEN THE SEDIMENT TRAP

CITY OF DELRAY BEACH
PUBLIC WORKS DEPARTMENT
404 BOUTH SWINTON AYENCE DELPAY BEACH, PLORDA 33444

INLET FILTER DETAIL

D10.0



INSPECTION OF ALL EROSION CONTROL MEASURES SHALL BE CONDUCTED WEEKLY, OR AFTER EACH RAINFALL EVENT. REPAIR, AND/OR REPLACEMENT OF SUCH MEASURES SHALL BE MADE PROMPTLY, AS NEEDED.

KEEP DUST WITHIN TOLERABLE LIMITS BY SPRINKLING OR OTHER ACCEPTABLE MEANS.

ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED IF DEEMED NECESSARY BY ONSITE INSPECTION.

FAILURE TO PROPERLY INSTALL AND MAINTAIN EROSION CONTROL PRACTICES SHALL RESULT IN CONSTRUCTION BEING HALTED.

DRAINAGE INLETS SHALL BE PROTECTED BY FILTER AND GRADED ROCK AS PER INLET PROTECTION DETAIL.

8. ANY ACCESS ROUTES TO SITE SHALL BE BASED WITH CRUSHED STONE, WHERE PRACTICAL.

EROSION CONTROL MEASURES ARE TO BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

10. WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED.

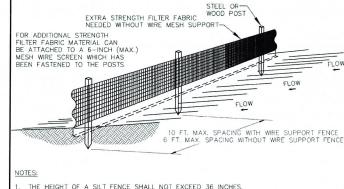
11. ALL WORK IS TO BE IN COMPLIANCE WITH THE RULES AND REGULATIONS SET FORTH BY THE STATE OF FLORIDA, DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THE CITY OF DELIVAY BEACH.

DISCHARGE FROM DEWATERING OPERATIONS SHALL BE RETAINED ONSITE IN A CONTAINMENT AREA.

CITY OF DELRAY BEACH
PUBLIC WORKS DEPARTMENT
454 BOUTH SYMPTON AVENUE DELIVAY BEACH, FLORIDA 33444

EROSION CONTROL NOTES DETAIL

D 11.0



THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES.

THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS.

POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12 INCHES. WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET.

A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.

WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.

THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.

SURFACE.

THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER B. ALL PROJECTS REQUIRE SUBMITTAL OF POLLUTION PREVENTION PLAN (PPP).

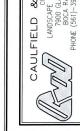
9. ALL PROJECTS 1 AC. OR MORE MUST SUBMIT NOTICE OF INTENT (NOI) TO FDEP.

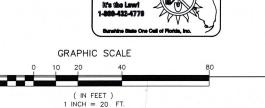
CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT

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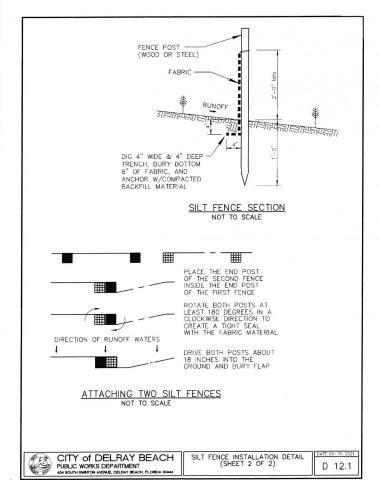
LEGEND BOUNDARY OF POLLUTION PREVENTION
(SLIT FENCE OR
HAY BALES PER
F..D.O.T. INDEX 103) INLET FILTER (REQUIRED FOR ALL INLETS DOWNSTREAM OF DISTURBED AREAS) Call 48 hours

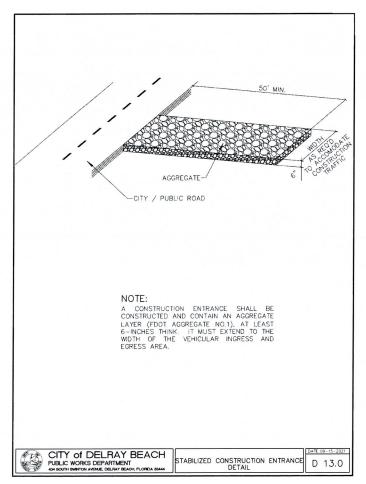
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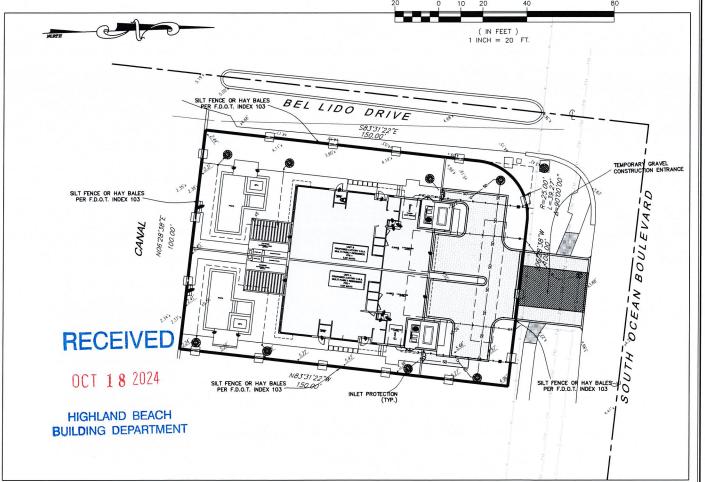




4306 S. OCEAN BLVD HIGHLAND BEACH, FL 33487











OF 12 SHEETS

POLLUTION PREVENTION DETAIL

GENERAL NOTES

- PAVING, GRADING & DRAINAGE ALL DIMENSIONS SHOWN ON THESE DRAWINGS ARE SCALED DISTANCES. THE CONTRACTOR SHALL CONFIRM ALL MEASUREMENTS IN THE FIELD AND NOTIFY THE REGINDER IN WRITING OF ANY DISCREPANCY PRIOR TO PREFORMING THE WORK. ALL QUANTITIES DISCREPANCY PRIOR TO PREFORMING THE WORK. ALL QUANTITIES SHALL BE PAID ON THE BASS OF FIELD MEASUREMENTS OF COMPLETED WITH PRIOR OF THE P
- SPECIFICATIONS SEL: 943.
 IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE SUCH EXAMINATION OF THE SITE OF THE WORK, AND OF ANY MATERI SOURCES INDICATED IN THE PLANS, AS MAY BE RECESSARY TO HIMSELF OF THE CONDITIONS UNDER WHICH WORK IS TO BE
- PERFORMED.
 PROPOSED GRADES SHOWN IN PAVED AREAS REFER TO FINISH PAVEMENT GRADES

- . PROPOSED GRADES SHOWN IN PAYED AREAS PETER TO TIMES AVENUE.

 PROPOSED GRADES SHOWN IN PAYED AREAS PETER TO TIMES AVENUE.

 PAYEMENT MARKING AND GEOMETRICS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DENCES FOR STREETS AND HIGHWAY'S AND PALM BEACH COUNTY TYPICAL NO. T—P—T7.

 ALL LOTS, RODIAWYS AND BORROW AREAS SHALL BE STRIPPED OF ALL DELETRIOUS (UNSUITABLE) MATERIALS AND MATERIALS SHALL BE DISPOSED WITHIN THE SITE INCLUDING THE REMOVAL OF ALL LATERIALS AND THE FINISHING OF ALL SHOULDERS, SUBGRADE PREPARATION, SWALES AND BACKSLOPES, IN ACCORDANCE WITH THE TYPICAL SECTIONS SHOWN HEREON SHALL BE INCLUDED IN THE BID PRICE FOR PAYING.

 3. ANY EXISTING ROADWAY AND/OR UTILITY THAT IS DAMAGED BY THE CONTRACTOR SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER, AND UTILITY.

 PITE FULL DEPTH OF ALL EXISTING ORGANIC AND DELETERIOUS MATERIALS WITHIN THE RIGHT—OF— WAY AND UTILITIES AND DRAIMAGE EASEMENT SHALL BE COMPLETE REMOVED. NO MATERIALS OF TOO, T. CLASS A—5, A—7, OR A—8 SHALL BE ALLOWED.
- $\alpha-7,~\text{UK}~\alpha-3~\text{SMALL}$ BE ALLOWED. ANY MUCK POCKETS OR GUMBO ENCOUNTERED SHALL BE REMOVED WITHIN THE ROADWAY TO 1.0' BELOW SUBGRADE AND TO OUTSIDE EDGE OF BOTH SHOULDERS.

- 10. ANY MUCH POCKETS OR GUIMD ENCOUNTIENED SHALL BE REMOVED WITHIN THE ROADWAY TO 1.0° BELOW SUBGRADE AND TO OUTSIDE EDGE OF THE METHOD SHALL BE SUCH THAT ALL DAYS SPECIFICATIONS.

 11. ACCORDANCE WITH PALM BEACH COUNTY STANDARDS AND SPECIFICATIONS.

 12. THE SEQUENCE OF CONSTRUCTION SHALL BE SUCH THAT ALL UNDERGROUND INSTALLATIONS OF EVERY KIND THAT WILL BE BENEATH THE PAYMENT CURRENTLY TO BE CONSTRUCTED SHALL BE INSTALLED PRIOR TO THE COMPACTION OF SUBGRADE.

 12. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER AND COUNTY ON ALCOVERS.

 13. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER AND COUNTY ON ALCOVERS.

 14. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION OF EXISTING UTILITIES WHETHER SHOWN OR NOT SHOWN ON THESE DRAWINGS AND SHALL VERIFY ALL ELEVATIONS BEFORE STARTING CONSTRUCTION ALL EXISTING UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE RESTORED TO EXISTING OR BETTER CONDITIONS BY CONTRACTOR AT MO EXPENSE TO DEVERSING SHEET CONDITIONS BEFORE CONTRACTOR AT MO EXPENSE TO THE SHALL BE CHARLED BY THE CONTRACTOR SHALL BE RESTORED TO EXISTING OR BETTER CONDITIONS BY CONTRACTOR AT MO EXPENSE TO DEADING SAND LINES SHALL BE CECONDED TO AN EXISTING UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE CENTED OF AN EXIST OF AND EXPENSE TO DEAD SHALL SHALL BE CONTRACTOR SHALL BE CENTED BY A REPRESENT OF ALL SHALL BE CLEARED AND DEBRIS PRIOR TO SAID CONNECTION, AND WHERE EXISTING DRAINAGE SYSTEM INCLUDES SHALL BE CLEARED AND REWORKED, AS NECESSARY, TO PRESONE THEM TO THEIR APPROVED DESIGN SECTIONS SHOULD BE ARRANGED NO LESS THAN 48 HOURS IN ADVANCE.

 15. ALL PIPE JOINTS ARE TO BE INSPECTED BY A REPRESENTATIVE OF THE ENGINEER WISH THE RAPPOWED DESIGN SECTIONS.

- 17. ALL CATCH BASIN GRATES MUST HAVE LOCKING CHAINS IN ACCORDANCE WITH FOOT NIDEX 20.

 CLEARING AND GRUBBING:

 18. WORK SHALL CONSIST OF THUS STIMPS, ROOTS, ROBBISH, AND ALL BULDINGS, TIMBER, BRUSH, STOTE, RUBBISH, AND ALL BULDINGS, TIMBER, BRUSH, STOTE, CHAIR STOTE, RUBBISH, AND FACTOR THOUGH THE SUBFACE OF THE EXISTING GROUND AND THE SUBFACE OF EXCAVATED AREAS, AND OF ALL OTHER STRUCTURES AND OBSTRUCTIONS NECESSARY TO BE REMOVED, INCLUDING SEPTIC TAMES, BULDING FOUNDATIONS, AND PIPES.

 19. ROOTS AND OTHER DEBRIS SHALL BE REMOVED TO A DEPTH OF AT LEAST ONE FOOT BELOW THE GROUND SUFFACE. ALL STUMPS WITHIN THE CONSTRUCTION AREA SHALL BE COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR.

 20. DISPOSED OF BY THE CONTRACTOR.

 21. PROPERTY OBSTRUCTIONS WHICH ARE TO REMAIN IN PLACE, SUCH AS BUILDINGS, SEWERS, DRAINS, WATER OR GAS PIPES, CONDUTTS, POLES, WALLS, POSTS, BRIDGES, ETC. ARE TO BE CAREFULLY PROTECTED FROM INJURY AND ARE NOT TO BE DISPLACED.

 22. CLEARING AND GRUBBING MATERIALS SHALL BE DISPOSED OF BY THE CONTRACTOR FOR THE CONTRACTOR TO LOCATIONS AND BY METHODS APPROVED BY THE SUBGRAZOR.

SUBGRADE:

- SUBGRADE:

 23. UTILIZATION OF MATERIAL IN SUBGRADE CONSTRUCTION SHALL BE IN ACCORDANCE WITH PLAN DETAILS OR AS DIRECTED BY THE EMBINEER.

 24. ACCORDANCE WITH PLAN DETAILS OR AS DIRECTED BY THE EMBINEER.

 25. ACCORDANCE WITH PLAN DETAILS OF AS DIRECTED BY THE EMBINEER.

 26. ACCORDANCE WITH PLAN DETAILS OF THE PROPOSED SUBGRADE AS THE PROPOSED SUBGRADE AS THE PROPOSED PAYMENT AND MAXIMUM DENSITY OF THE MATERIAL. IN-PLACE DENSITY TESTS OF THE FINISH SUBGRADE SHALL BE PERFORMED AT A FREQUENCY OF AT LEAST ON THE TESTS OF THE FINISH SUBGRADE SHALL BE PERFORMED AT A FREQUENCY OF AT LEAST ON OF THE THE PROPOSED PAYMENT AREA TO DETERMINE COMPULANCE WITH THE DESIGN SPECIFICATIONS OF THE COMPACTED SUBGRADE SHALL CONFORM TO THE SUBGRADE SHALL HAVE A MINIMUM LIMEROCK BEARING RATO (LBR) OF AG THE COMPACTED SUBGRADE SHALL CONFORM TO THE SUBGRADE SHALL HAVE A MINIMUM LIMEROCK BEARING RATO (LBR) OF AG THE COMPACTED SUBGRADE SHALL CONFORM TO THE SUBGRADE SHALL BE COMPACTED SUBGRADE SHALL CONFORM TO THE SUBGRADE MATERIAL PRESENT ON, UNDER, OR PROTRUDING THE SUBGRADE MATERIAL PRESENT ON, UNDER, OR PROTRUDING THE SUBGRADE SHALL BE STRING—LINED PRIOR TO PLACEMENT OF ROCK BASE TO VERIFY THAT THE SUBGRADE HAS BEEN CONSTRUCTED TO THE PROPER LINES, CROSS—SECTIONS, AND ELEVATIONS WITHIN AN ALLOWABLE TOLERANCE OF 1/2" OF THE PROPOSED FINISH SUBGRADE ELEVATIONS.

PBC ROAD AND BRIDGE STANDARD NOTES.

1. IF DURING THE PROPOSED CONSTRUCTION/CROSSING ANY EXISTING PB COUNTY STORM DRAIN PIPE/STRUCTURES ARE AFFECTED IN ANY WAY PB COUNTY RAB REQUIRES FULL RESTORATION OF THE AFFECTED SYSTEM TO LIKE OR BETTER THEN LIKE CONDITION AND TO PB COUNTY/FDOT

STANDARDS.
2. ALL AFFECTED ROADWAYS ARE TO BE RESTORED FROM EOP TO EOP, LANE WIDTH MIN, AND
50 'IN ETHER DIRECTION ((INDROLUGHARE) AND 25' MIN. RESTORATION ((NON-THOROQUGHARE)).
3. IF ANY ADDITIONAL LANES ARE AFFECTED FOR ANY REASON DURING CONSTRUCTION, PE
COUNTY RAB WILL REQUIRE THE ADDITIONAL LANES BE RESTORED TO LIKE OF BETTER THEN LIKE
CONDITION AND TO EQUILA DIMENSIONS AS THE ADDICENT LANES.
4. IF PE COUNTY SABEWILK / PATHWAY / CAG / AND OR AS FALLITIES ARE AFFECTED PB
COUNTY RAB WILL REQUIRE RESTORATION OF A MINIMUM OF ID AND TO BE LIKE ON BETTER THEN LIKE CONDITION PER / FOOT / PB COUNTY STANDARDS.

5. SIDEWALKS WILL BE RESTORED BY REPLACING. TWO FLAGS IF THE POINT OF CONSTRUCTION IS LOCATED AT A CONTROL JOINT AND THREE FLAGS IF THE POINT OF CONSTRUCTION IS LOCATED BETWEEN CONTROL JOINTS. NO PARTIAL JOINTS ACCEPTED. (PER SITUATION)

PBC TRAFFIC STANDARD NOTES:
1 CONTACT HAROLD REED AT 561 681-4326 BEFORE STARTING CONSTRUCTION PBC-TRAFFIC ITS 1. CUNTACT HAROLD RED AT 561 681—4326 BEFORE STARTING CONSTRUCTION PIGE-TRAFFIC ITS WILL REMOVE FIBER OFFIC CABLES FROM UNDERGROUND AND OVERHEAD FACILITIES PRIOR CONSTRUCTION, PLEASE FROWING 2 WEEKS ADVANCE NOTICE TO REMOVE FIBER OFFIC CABLE.

2. CONTRACTOR SHALL CONTACT PALM ELACH COUNTY TRAFFIC OPERATIONS AT 561—233—3900 FORTY—EDITIFIED HOURS PRIOR TO CONSTRUCTION FOR WIS EBERD DONE WITHIN 10 FEET OF ANY SIGNAL EQUIPMENT.

3. DAMAGES TO LOOPS OR ANY SIGNAL EQUIPMENT CALIFER BY CONSTRUCTION FOR THE DODE OF THE DODE OF THE CONSTRUCTION. ANY SIGNAL EQUIPMENT.
3. DAMAGES TO LOOPS OR ANY SIGNAL EQUIPMENT CAUSED BY CONSTRUCTION OF THIS PROJECT MUST BE REPAIRED OR REPLACED TO ORIGINAL OR BETTER CONDITION AT NO COST TO PALM

:H COUNTY. O EXCAVATION AROUND PBC SIGNAL POLES WITHIN 6 FT. RADIUS FROM CENTER OF POLE. ISE SEE PBC SIGNAL TYPICAL PAGE T-5.3 (SHEET 8 OF 23).

- BASE:
 26. LIMEROCK COMPOSITION THE FOLLOWING TESTS ARE REQUIRED ON THE LIMEROCK MATERIAL:
 A. CHEMICAL COMPOSITION TEST TO DETERMINE THAT MATERIAL HAS A MINIMUM PERCENT CARBONATES OF DOX.
 B. LIMEROCK BEARING RATIO TEST TO DETERMINE THAT MATERIAL.
 C. SIEVE ANALYSIS TO INSURE THAT AT LEAST 97 (BY WEIGHT)
 OF THE MATERIAL SHALL PASS A 3-1/2" SIEVE AND MATERIAL SHALL BE GRADED UNIFORMLY DOWN TO DUST. THE FIRM MATERIAL SHALL CONSIST ENTRIELY OF DUST OF FRACTURE. ALL CRUSHING OR BREAKING-UP WHICH MIGHT BE NECESSARY IN ORDER TO MORE TSUCH SIZE REQUIREMENTS SHALL BE DONE BEFORE THE MATERIAL SHALL ON THE REAL OF THE MATERIAL SHALL ON THE PROPERTY OF THE MATERIAL SHALL ON THE PROPERTY OF DUST. THE FIRM PROPERTY OF THE MATERIAL SHALL ON THE PROPERTY OF THE MATERIAL SHALL ON THE PROPERTY OF THE MATERIAL SHALL SHALL BE DONE BEFORE THE MATERIAL IS PLACED ON THE ROAD.
- ON THE ROAD.

 A PROCIOT TEST SHALL BE PERFORMED ON THE PROPOSED LIMEROCK AMTERIAL TO DETERMINE THE MAXIMUM PENSITY OF THE MATERIAL IN-PLACE DENSITY TESTS SHALL BE TAKEN AT A FREQUENCY OF AT LEAST ONE TEST FOR EVERY 7.000 SO.FT. OF PROPOSED PAVEMENT TO DETERMINE COMPLIANCE WITH THE DESIGN SPECIFICATIONS OF 98% OF MAX. DENSITY PER AASHTO T-180 TESTING METHODS.

 THE COMPACTED BASE SHALL CONFORM TO THE LINES, GRADES, AND CROSS—SECTION SHOWN ON THE PLANS. THE FINISH BASE SUFFACE SHALL BE STRINGLINDO OR CHECKED WITH A TEMPLATE TO VERIFY CONFORMANCE WITH THE PLAN GRADES WITHIN AN ALLOWABLE TOLERNEY OF 174 OF THE PROPOSED BASE ELEVATIONS.

 PRIME COAT SHALL BE APPLIED AT A RATE OF 0.25 GALLONS PER SOLUTION.

ASPHALTIC CONCRETE SURFACE COURSE:

- TACK COAT TACK C
- EXISTING ASPHALT AND OVERLAY.
 A TACK COAT SHALL BE APPLIED TO THE TOP OF THE CLEAN
 ASPHALT SURFACE AT A RATE OF 0.10 GALLONS/SO.FT. IN
 THE PRESENCE OF THE ENGINEER'S REPRESENTATIVE.
- THE PRESENCE OF THE ENGINEER'S REPRESENTATIVE.

 9 PRINE COAT SHALL BE APPLIED AT A RATE OF 0.25 GALLONS PER SQUARE YARD. PRIME AND TACK COAT FOR BASE SHALL CONFORM TO THE REQUIREMENTS AND SPECIFICATIONS OF SECTION 300—1 THROUGH 300—7 OF F.D.O.T. STANDARDS SPECIFICATIONS.

 30. ASPHALTO. CONCRETE SHALL CONFORM TO FLORIDA D.O.T. REQUIREMENTS OF TYPE S—1 AND S—3. CETHFICATIONS OF THE ASPHALT MIX SHALL BE SUBMITTED BY THE ASPHALT PLANT TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
- THE TEMPERATURE OF THE ASPHALT SHALL BE AT LEAST 230 DEGREES F. DURING THE LAYING OPERATION.

- SATISFACTION.

 4. ALL REPAIRS TO EXISTING PAVEMENT SHALL RECEIVE SAWCUT EDGE PRIOR TO RELAYING ASPHALT. UNDER PAVEMENT UTILITY PIPING OR WIRING LESS THAN FOUR (4) INCHES IN DIAMETER REQUIRES A SCHEDULE 40 PVC CASING PIPE WITH SAND BACKFILLS.
- 35. ALL PERMANENT CONTROL POINTS AND/OR REFERENCE MARKERS SHOWN ON PLAT SHALL BE RAISED TO FINAL GRADE IF LOCATED IN PAYEMENT OR CONCRETE. THESE POINTS AND REFERENCE MARKERS SHALL BE LOCATED AND NOTED ON THE PLAT. NOTIFICATION. TESTING

- NOTIFICATION, TESTING

 36. NOTIFICATION, TESTING

 36. NOTIFICATION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER. THE COUNTY AND UTILITIES 48 HOURS PRIOR TO SCHEDULING FIELD OBSERVATIONS AND SHALL SUPPL. LE COUPMENT TO SCHEDULING FIELD OBSERVATIONS AND SHALL SUPPLE COUNTY OF THE THE COUNTY OF THE DIAMETER OF THE PIPE (FROM THE INVERT) AND LAMPED AS A REQUIREMENT OF THE PIPE (FROM THE INVERT) AND LAMPED AS A REQUIREMENT OF THE THALL DRAINAGE INSPECTION.

 36. GRATE AND RIM ELEVATION ARE BASED ON PROPOSED FINISHED GRADE. ADJUSTMENTS MAY BE NECESSARY DUE TO FIELD CONDITIONS. ADJUSTMENTS ARE TO BE MADE BY THE CONTRACTOR WHEN THE BASE COURSE IS IN PLACE OR SITE GRADING IS COMPLETE. COST OF ADJUSTING RIMS AND GRATES IS TO BE INCLUDED IN BASE BID.

- SODDING:

 39. WORK CONSISTS OF THE ESTABLISHING OF A STAND OF GRASS WITHIN THE AREAS CALLED FOR BY THE FURNISHING AND PLACING OF GRASS SOD AND FERTILIZING. WATERING, AND MAINTAINING SODDED AREAS SUCH AS TO ASSURE A HEALTHY STAND OF GRASS.

 40. THE AREA OVER WHICH THE SOD IS TO BE PLACED SHALL BE SCARIFIED OR LOOSENED TO SUITABLE DEPTH. THE SOD SHALL BE PLACED ON THE PREPARED SUPFACE WITH EDGES IN CLOSE CONTACT AND SHALL BE FIRMLY AND SMOOTHLY EMBEDDED BY LIGHT TAMPING WITH APPROPRIATE TOOLS. ON AREAS WHERE THE SOO MAY SLIDE DUE TO HEIGHT AND SLOPE. THE ENGINEER MAY DIRECT THAT THE SOD BE PEGGED WITH PEGS BRIVEN THROUGH THE SOD BLOCKS INTO FIRM EARTH AT SUITABLE INTERVALS.

NOTES:

1) MAINTENANCE OF TRAFFIC M.O.T. FOR THIS PROJECT WILL COMPLY WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION F.D.O.T. DESIGN STANDARD INDEX 611, 612, 613, AND 660. INDEX 511, 612, 613, AND 506.

2) ALL SALVAGEABLE MATERIAL (FILL DIRT, PIPE, SIGNS, ETC.) BELONGS TO THE F.D.O.T. AND SHALL BE TRANSPORTED TO THE LOCAL OPERATIONS

CENTER, AT THE PERMITTEE'S EXPENSE. 3.) ALL UTILITY RELOCATIONS WITHIN THE DEPARTMENT'S RIGHT OF WAY NEED TO OBTAIN THE PROPER PERMITS.

NOTES:

LOCAL MEDIA SHALL BE CONTACTED A WEEK PRIOR TO ANY LANE CLOSURES ON THE STATE ROAD SYSTEM AS IT WILL OCCUR DURING PEAK HOURS OR OVER THE SPAN OF MORE THAN ONE DAY. CONTACT BARBARA KELLEHER, FDOT PUBLIC INFORMATION OFFICE AT 954-777-4090 FOR GUIDANCE ON WHO TO CONTACT. PROVIDE A COPY OF THE PRESS RELEASE TO

FLORIDA DEPARTMENT OF TRANSPORTATION PUBLIC INFORMATION OFFICE 3400 WEST COMMERCIAL BLVD.

SOLID CONCRETE INTERLOCKING PAVING STONE SPECIFICATIONS

- CENERAL
 C
- Furnish and install subgrade per Table 100.5 of the Palm Beach Country Land Development Design Standards Manual.
 Furnish and install subgrade per Table 100.5 of the Palm Beach Country Land Development Design Standards Manual.
 Formish and Statul Design Standards Manual.
- a manner that no aamage occurs auring snipping, nanaling and storage.
 References:

 1. Solid concrete interlocking paving stones shall meet or exceed the requirements in ASTM C-935 Standard Specifications for Solid Concrete Interlocking Paving Units.

- A. Thickness, Color and Pattern:
 1. Paving stone thickness shall be between 3-1/8" min 4" max.
 2. All paving stones shall be colored through the full depth of power and not just the surface.
- pover and not just the surrace.

 3. A multi-colored paving stone pattern shall be used.

 Cementitious Materials:

 1. Portland cements shall conform to ASTM C-150.
- Aggregates:
 Aggregates shall conform to ASTM C-33 for normal weight concrete except that grading requirements shall not necessarily
- concrete except that grading requirements shall not necessarily apply.

 D. Other Materials:

 1. Coloring pigments, air entraining agents, integral water repellents, finely ground silica, etc., shall conform to ASTM standard where applicable or shall be previously established as suitable for use in concrete.

 E. Coloring and the standard standard standard standard standard standard standard standard shall not be less than 8,000 pai with no individual unit strength less than 7,200 psi, with testing procedures in accordant with ASTM C-140.

- F. Absorption:

 1. The average absorption shall not be greater than 5% with no individual unit absorption greater than 7%.

 S. Proven Field Performance:

 1. Satisfying field performance is indicated when paving stones similar in composition, and made with the same manufacturing equipment as those supplied to the purchaser, do not exhibit deterioration after one year.
- acterioration area one year.

 1. All powing stones shall be sound and free of defects that would interfere with the proper placement of the paving stone or impair the strength or permanence of the construction.

 2. Minor cross inclaiment to the usual methods of manufacture, or chipping resulting from customary methods of handling in shipment and delivery, shall not be deemed grounds for rejection.
- Sampline (Testing Services), shall not be deemed yourus for rejection.

 Sampline (Testing Services), shall not be deemed yourus for rejection.

 The purchaset shall be accorded proper facilities to inspect and sample the powing stones at the place of manufacture from lots ready for delivery.

 2. Paving stones will be sampled and tested in accordance with ASTM C-140.
- |. Rejection:
 | If the shipment falls to conform to the specified requirements, the manufacturer may sort it, and new test paying stones shall be selected at random by the purchaser from the retained lot and tested at the expense of the manufacturer. If the second set of test paying stones fall to conform to the specified requirements, the entire lot

FDOT STANDARD NOTES

Operations Engineer.

to address eventualities such as hurricanes.

right-of-way to determine the location of the existing traffic signal interconnect cable.

2.2 BEDDING COURSE: A. The bedding course shall be a well graded, clean, washed sand with 100X passing a 3/8" sleve size and a maximum of 3% passing a No. 200 sleve size. The use of mason sand shall not be approved. B. The bedding course shall be the responsibility of the paving RFCEIVED

stone installer
2.3 EDGE RESTRAINT:
A. All edges of the installed paving stones shall be restrained.
type of edge restraint, shall be approved at locations and to
noted on plans.

3.1 PREPARATION OF THE BASE COURSE:
A. A suitable base shall be prepared as specified in Section B.2. of

A. A suitable base shall be prepared as specinea in section pt. of this specification.

B. The base course shall be shaped to grade and cross section with allowable tolerance of \$4^\cdot\$.

3.2 CONSTRUCTION OF THE BEDDING COURSE:

A. The finished base course shall be approved before the placement of the standard programs of the same bedding course.

B. The sand bedding stones and the screeded level to produce a 1^\cdot the powing stones and the screeded level to produce a 1^\cdot the powing stones have been placed and vibrated.

C. The final elevation of paying stones should be nominally \$4^\cdot to 3/8^\cdot higher than the adjacent curb, gutter, etc., to allow for free drainage from chamfers on paying stone edges.

D. The badding course shall not be disturbed, once screeded and leveled to the desired elevation.

3.3 INSTALLATION OF PAVING STONES:

A. The paying stones shall be placed as shown on the drawings.

Iewield to the desired interests.

Isward in the desired interests.

A The John of PAVING.

B The John of John of PAVING.

C String lines should be used to hold all patterns true.

D The gaps at the edge of the paving stone surface shall be filled with standard edge stone or with stones cut to fit. Cutting of concrete paving stone shall be accomplished to leave a clean edge to the traffic surface using a double-headed breaker or a masonry saw. Whenever possible, no cut should result with a paving stone the traffic surface using a double-headed breaker or a masonry saw. Whenever possible, no cut should result with a paving stone plat vibrator capable of 3000 to 5000 pounds compaction force with the surface clean and the joints open.

F. After whator cieden and the joints open.

A ther whator of control of the paving stone surface, allowed to dry and whorted into the joints with additional plote wibrator passes and brushing so as to completely fill the joints.

Surplus material shall then be swept from the surface or left on the surface during construction to insure complete filling of joints during influtious.

A surface during construction to insure complete filling of joints during influtious.

He was a surface during construction to insure complete filling of joints and include a surface of the surface of

Paver brick shall conform with Palm Beach County Land Development Design Standards Manual with the following exceptions:

exceptions:

A) Under II Material 2.1 # A.1, Paving stone thickness shall be 3 1/8' (min.) to 4" (max.)

b) Under II Material 2.1 # A.3. The coloring shall be throughout the entire brick with the white and yellow conforming with F.D.O.T. Standard Specifications for Roa and Bridge Construction (latest edition) section 710–4.7

Glass spheres to meet the requirements of sections 971-1 and 971-14 with retroflectivity to be not less than 300

When header curb is used to outline a crosswalk the curb shall be white concrete with glass beads in the white

concrete.

The brick shall be pre—approved per project before installation by the Palm Beach County Traffic Engineering Division.

The applicant's engineer responsible for construction inspection shall insure that the Maintenance Of Traffic M.O.T. for this project will comply with the Florida Department of Transportation F.D.O.T. Design Standard Index 611, 612, 613,

and 660, and these documents: The latest Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD) and revisions will be in accordance with (U. S. Department of Transportation, FHWA regulations). All MOT lane

Permittee will restore the Right of Way as a minimum, to its original condition or better in accordance w/ Florida Department of Transportation's latest Standard Specifications for Road & Bridge Construction or as directed by the Resident

Permittee will provide the Producers Certification for the CLASS 1 CONCRETE prior to final acceptance by the DEPARTMENT. The certification must bear the original signature of a legally responsible person from the producer and is

At the end of each work period, any drop-off in the area adjacent to the travel way of the State Road shall be backfilled in accordance with Standard Index 600 or shall be otherwise protected with temporary barrier wall at the contractor's

Limerock base shall be a minimum of 10" of Optional Base Group 9 and compacted to 98% maximum density according to AASHTO-T180. Construction to conform to section 200 and standard index 514. Base to be primed after

All materials and construction within the FDOT right-of-way shall conform to the FDOT Roadway and Traffic Design Standards (Latest Edition). Standard Specifications (Latest Edition) and the supplements thereto

Permittee will provide the necessary densities in accordance with the Department's latest edition of the Standard Specifications for Road & Bridge Construction prior to final acceptance by the Department.

Pavement Markings must be thermoplastic and be installed per FDOT Design Standard Index 17346 and Raised Pavement Markings (RPM's) per FDOT Design Standard Index 17352.

closure signs shall be covered when lanes are not closed. No lanes are to be closed except at times prescribed by the Denartment.

Restricted hours of operation will be from 9:00am to 3:30 pm, (Monday-Friday), unless otherwise approved by the Operations Engineer, or designee.

It is the Permittee's responsibility to obtain final acceptance of permitted work (completed) and the restoration of the Right-of-Way from the Department prior to usage

The contractor must call the appropriate county traffic engineering division, having jurisdiction over the project at least 48 hours, before any excavation within the FDOT

Permittee will coordinate all work with the Palm Beach Operations Permits Department using fax # 561-370-1236. Coordination will include a Pre-Construction meeting

The location of existing utilities shown is approximate only. The contractor shall determine the exact location during construction. Relocation of utilities shall be

coordinated with utility companies after identification of conflict by contractor. Contractor will notify engineer in advance before any relocation

The applicant at the earliest convenient time shall notify in writing all right-of-way users affected by the construction of this project.

The pavement specification should read: Match existing type and depth of asphalt to 4 3/4" maximum including friction course.

CONSTRUCTION METHODS:

OCT 18 2024

HIGHLAND BEACH BUILDING DEPARTMENT



П A CIL 5

PLAN VD

BE

GEN 4306 S HIGHLAND

WARDS DUP PROPOSED NERAL NOTE S. OCEAN B

Stabilized Subgrade - minimum 12" thick and compacted to 98% maximum density according to AASHTO-180. Material to

acceptance of the permitted project is fulfilled. Excavated materials shall be hauled by the Permittee, at their cost & expense from the site to the Palm Beach Operations Center or stockpiled in those areas as directed by the Department, including asphalt millings.

granular material in maximum 6" lifts compacted to 100% of maximum density in accordance with AASHTO T99-C specifications, and each lift tested before placing next lift.

Sodded areas will be in accordance with Standard Index 105 and sections 162, 575, 981, 982, 983, 987 of the Department's Standard Specifications for Road and Bridge Construction, latest edition. All disturbed areas will be sodded within one (1) week of installation of said permitted work.

FROM THE PROJECT SITE. WARNING SIGNS MUST BE ERECTED ADVISING MOTORIST OF TRUCKS

PERMIT IS VALID FOR ONE YEAR FROM DATE OF ISSUE. If the permitted work is on a roadway that has been selected as a hurricane or disaster evacuation route, the applicant, at the pre-construction conference is required to present, as part of the work plan, an emergency functional restoration plan

Permittee will provide the Department with certified "As-Built" plans prior to final acceptance of the permitted work.

Permittee's contractors that are performing permitted work activities shall provide the Department (Permits Office) proof of a proper state contractor's license and certificate of liability insurance prior to any commencement of permitted work

have minimum I. B.R. of 40 and conform to section 160

Ownership of all suitable excavated materials, as determined by the Department, shall remain in the Department until a final

Remove all muck, overburden, and root material to the right-of-way line, and backfill to the required subgrade with clean,

All curb cut ramps must face in the direction of pedestrian travel. During the removal/installation of any curb and gutter section, the permittee will be responsible for any damage done to the abutting asphalt. The damaged asphalt repair will be in accordance with the current specifications and/or as directed

Specify the alphanumeric identification for the curb cut ramps per Standard Index 304. A copy of the appropriate detail(s)

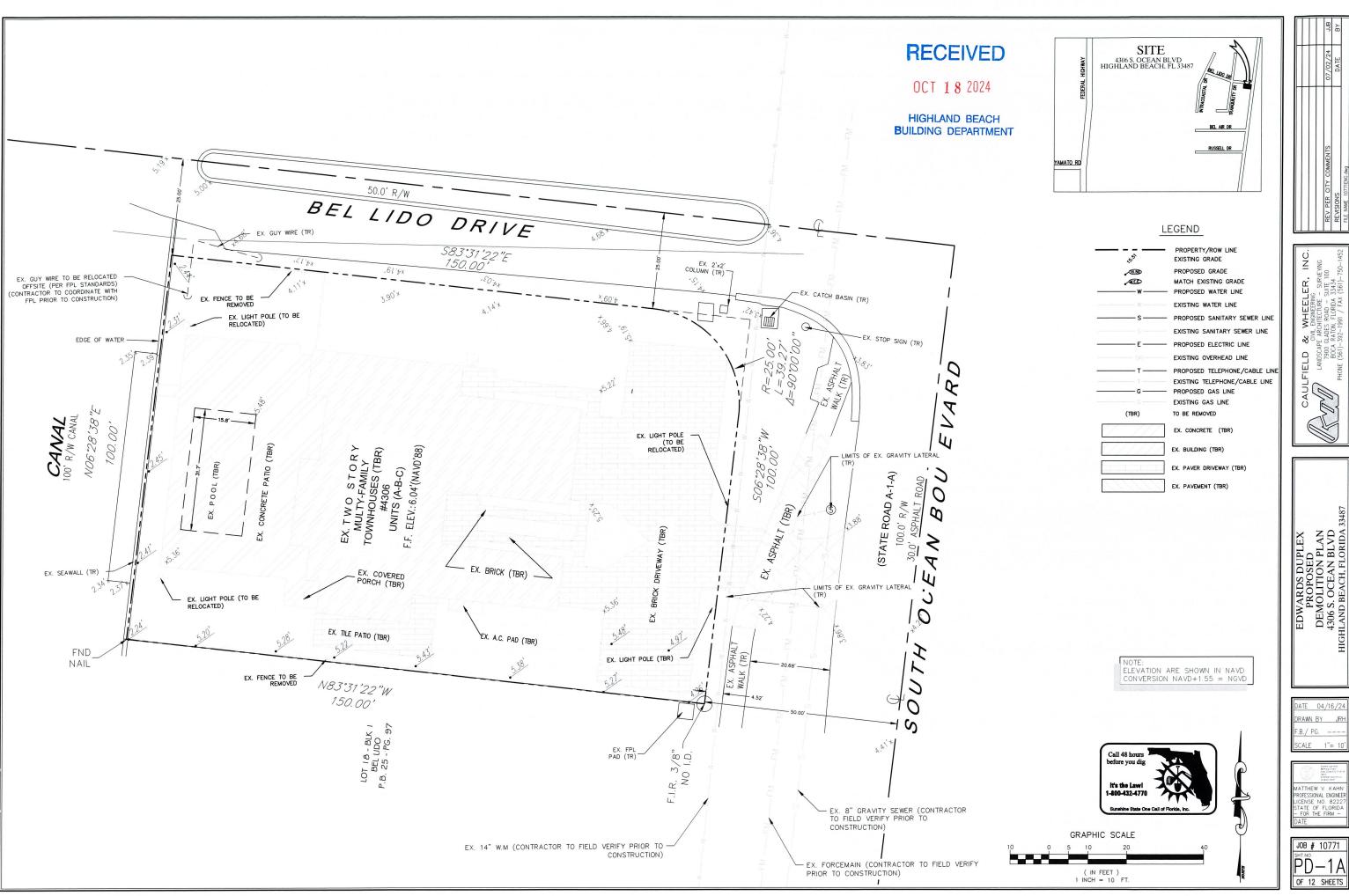
FLAGGERS MUST BE PRESENT DURING THE INGRESS AND EGRESS OF CONSTRUCTION VEHICLES TO AND

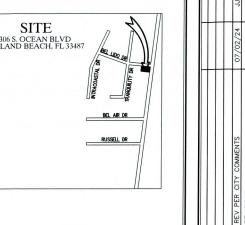
Removal/installation of sidewalk will be in accordance with FDOT Standard Index 310.

DATE 04/16/2 DRAWN BY JR F.B./ PG. ---SCALE

MATTHEW V. KAHN

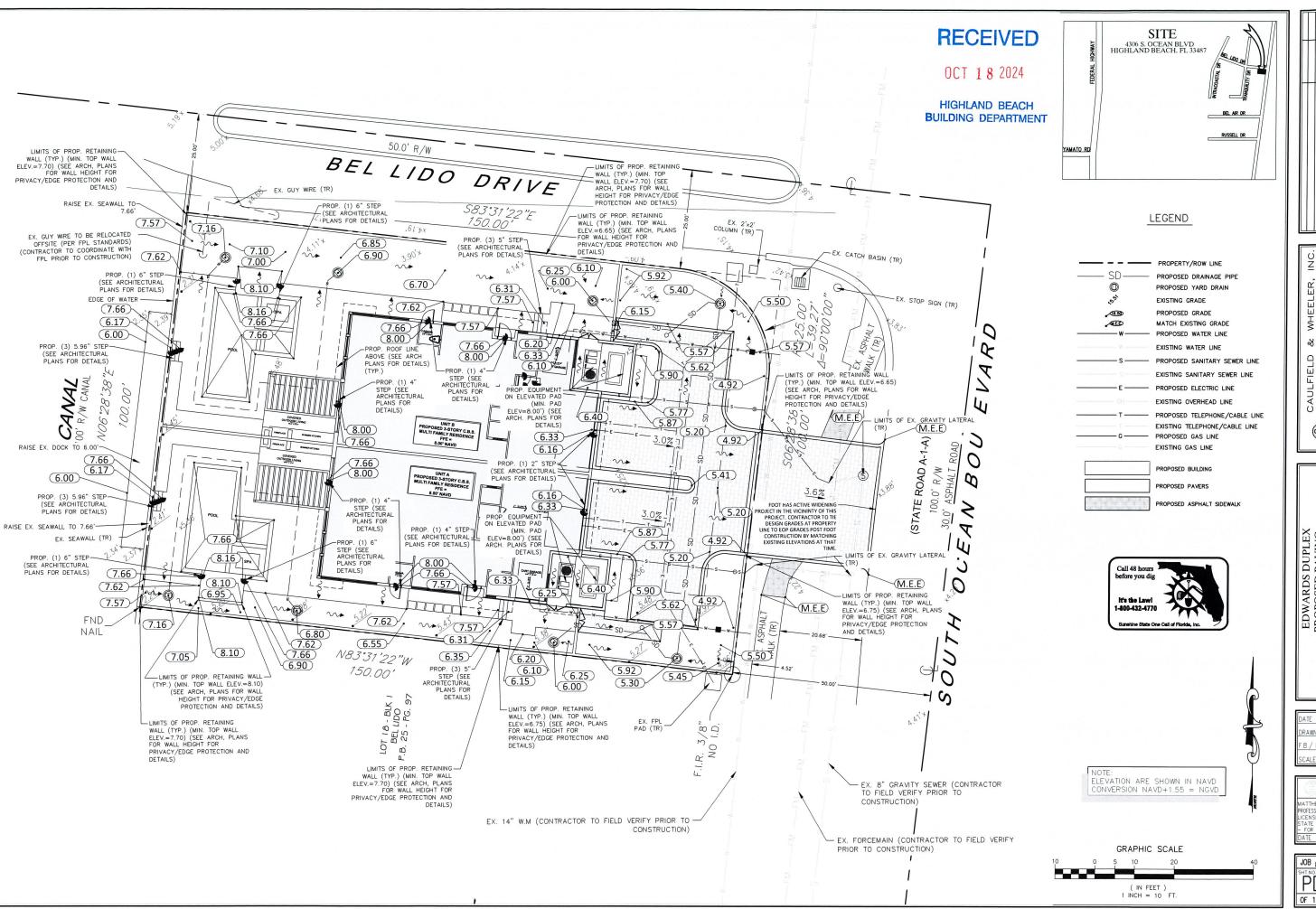
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STATE OF	FLORIDA
- FOR TH	E FIRM -
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JOB # 10771 OF 12 SHEETS



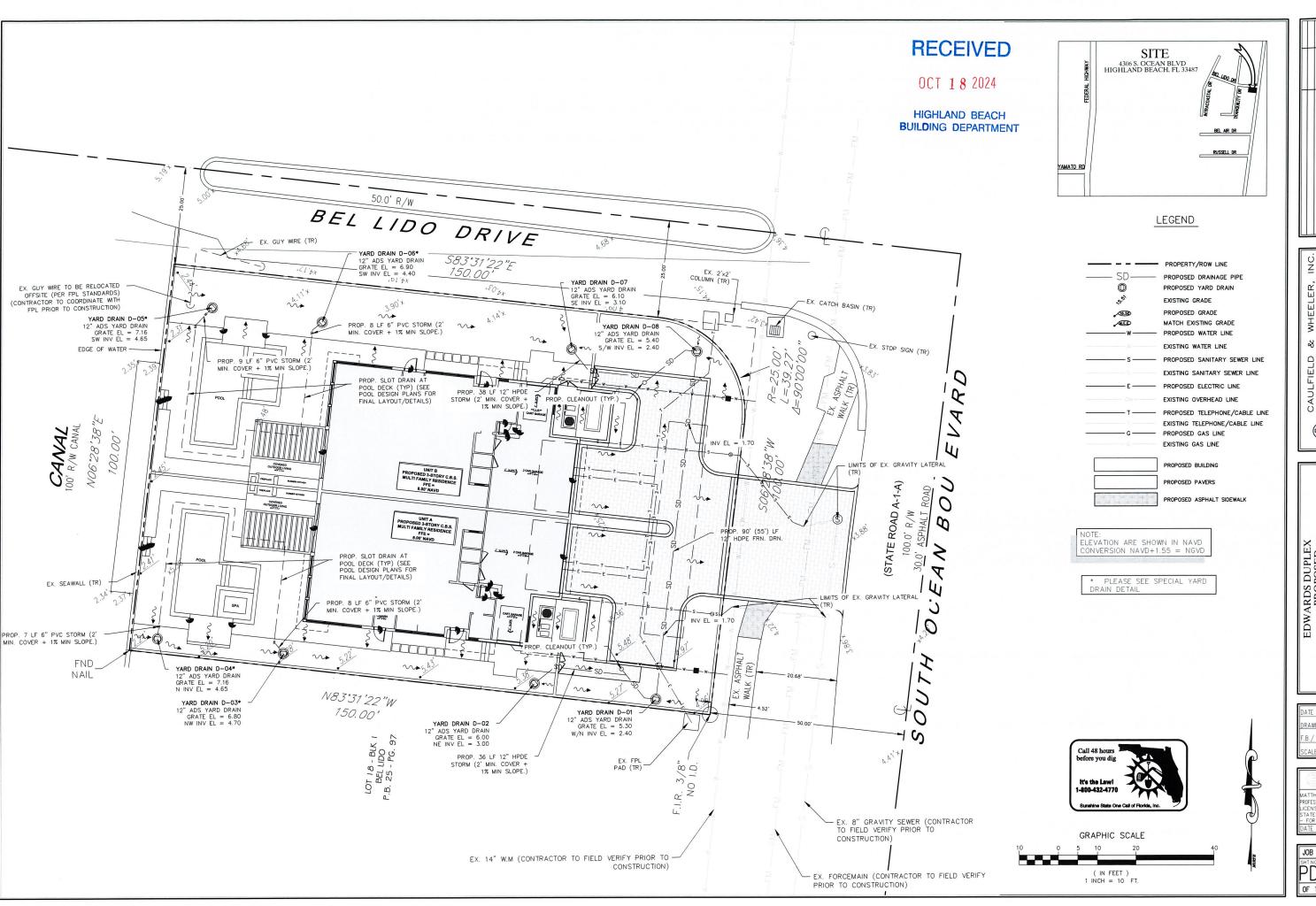
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EDWARDS DUPLEX PROPOSED PAVING & GRADING PLAN 4306 S. OCEAN BLVD LAND BEACH, FLORIDA

TE 04/16/2 DRAWN BY R / PG --SCALE 1"= 1

TTHEW V. KAHN

JOB # 10771 OF 12 SHEETS





CAULFIELD & WHEELER, INC.
LANDSCAPE ARCHITCTURE - SIRVEYING
7200 CLADES ROAD - SUITE TOO
BOCA RATON, FLORION 33454
PHONE (361)-392-1991 / FAX (361)-750-1452

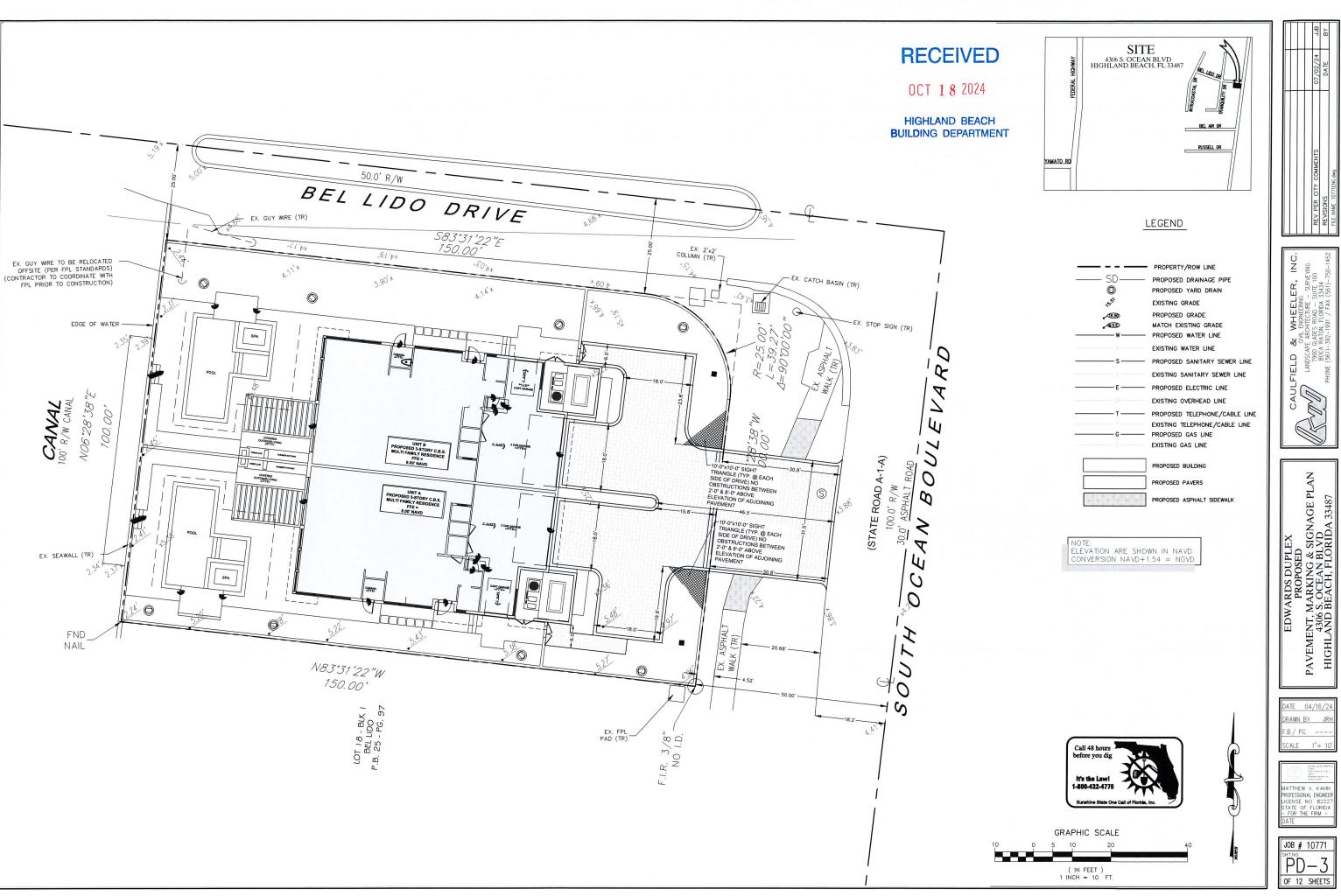
EDWARDS DUPLEX PROPOSED DRAINAGE PLAN 4306 S. OCEAN BLVD HIGHLAND BEACH, FLORIDA 334

DATE 04/16/24

DRAWN BY JRH

MATTHEW V. KAHN
PROFESSIONAL ENGINEER
LICENSE NO 82227
STATE OF FLORIDA
– FOR THE FIRM —

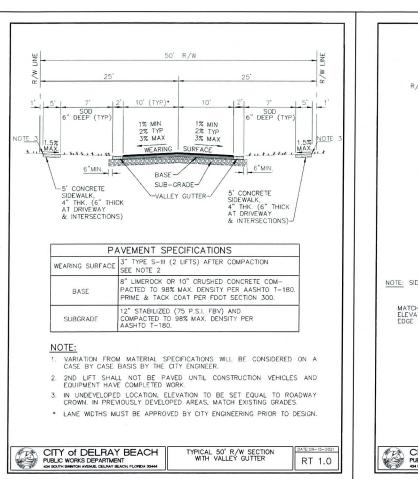
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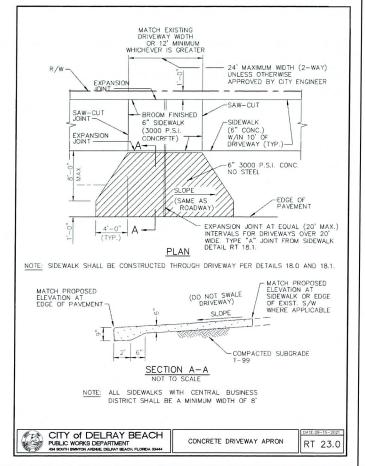


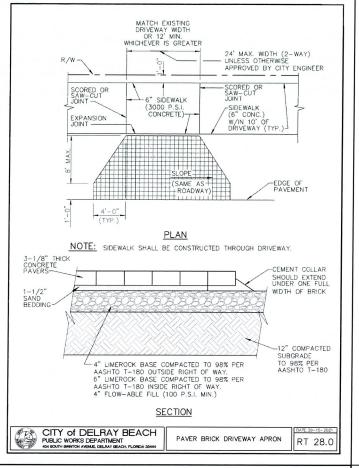


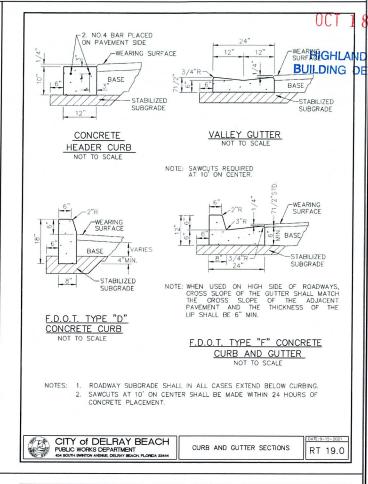




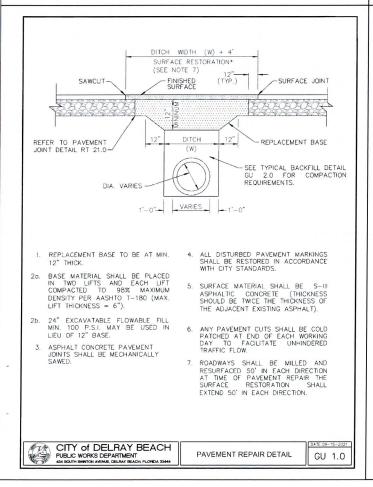


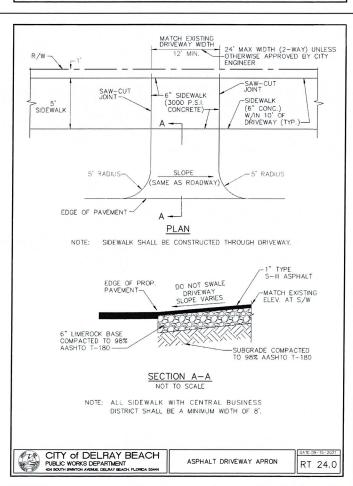


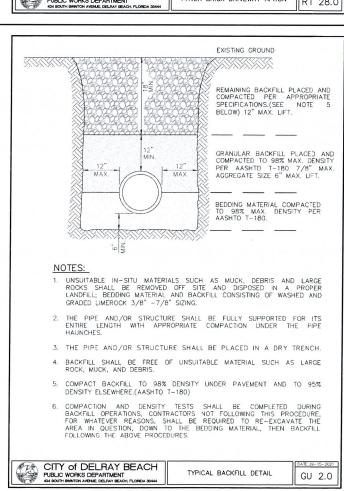


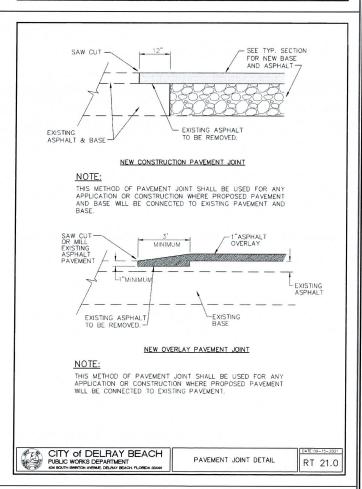


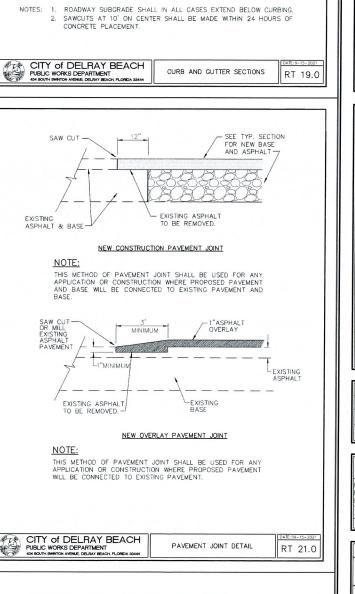
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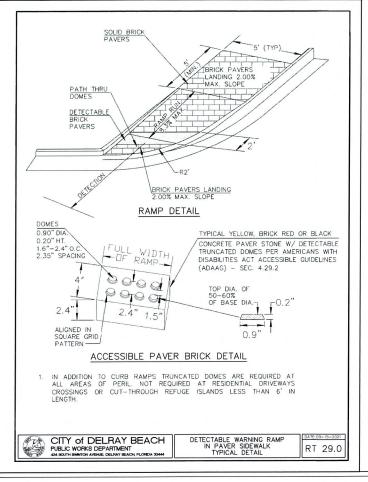
EDWARDS DUPLEX PROPOSED PAVING, GRADING & DRAINAGE DETAILS 4306 S OCEAN BLVD HIGHLAND BEACH. FL 33478 TE 04/16/2 RAWN BY JRH .B./ PG. ---CALE ATTHEW V. KAHI ATE OF FLORID. FOR THE FIRM -JOB # 10771 OF 12 SHEETS

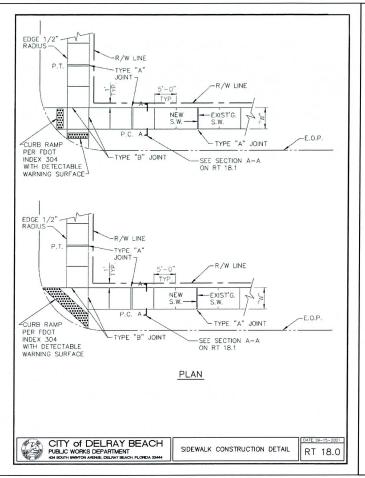
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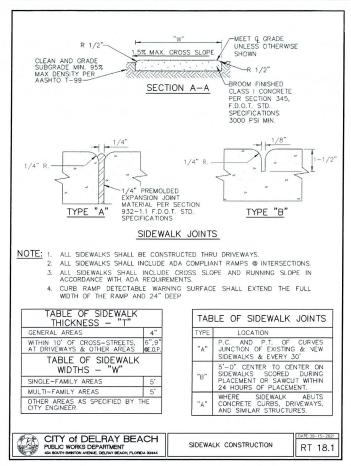
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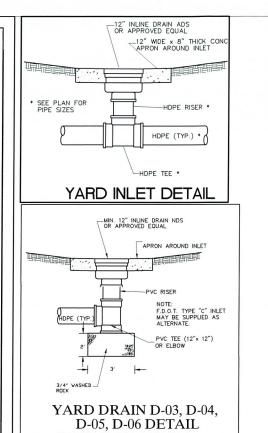
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OCT 1 8 2024

HIGHLAND BEACH
BUILDING DEPARTMENT

CAULFIELD & WHEELER, INC.

CAULFIELD & WHEELER, INC.

LANDSCAR ARCHITECTURE - SURVEYING
TOOG GLADES ROAD - SUITE 100
BOCA RATON FLORIDA 334.34

PHONE (56)-392-1991 / FAX (56)-750-452

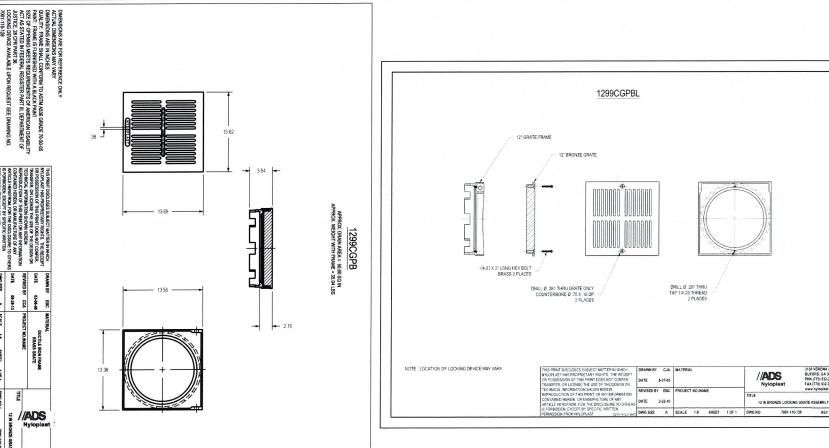
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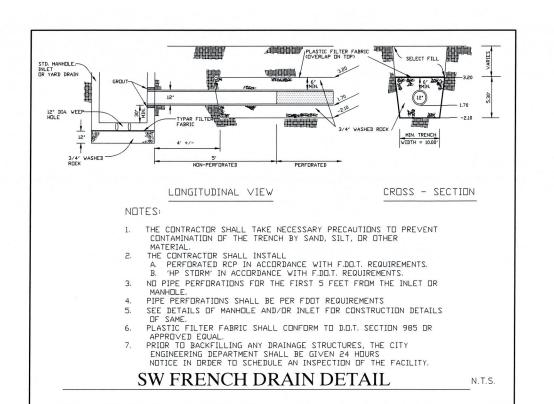
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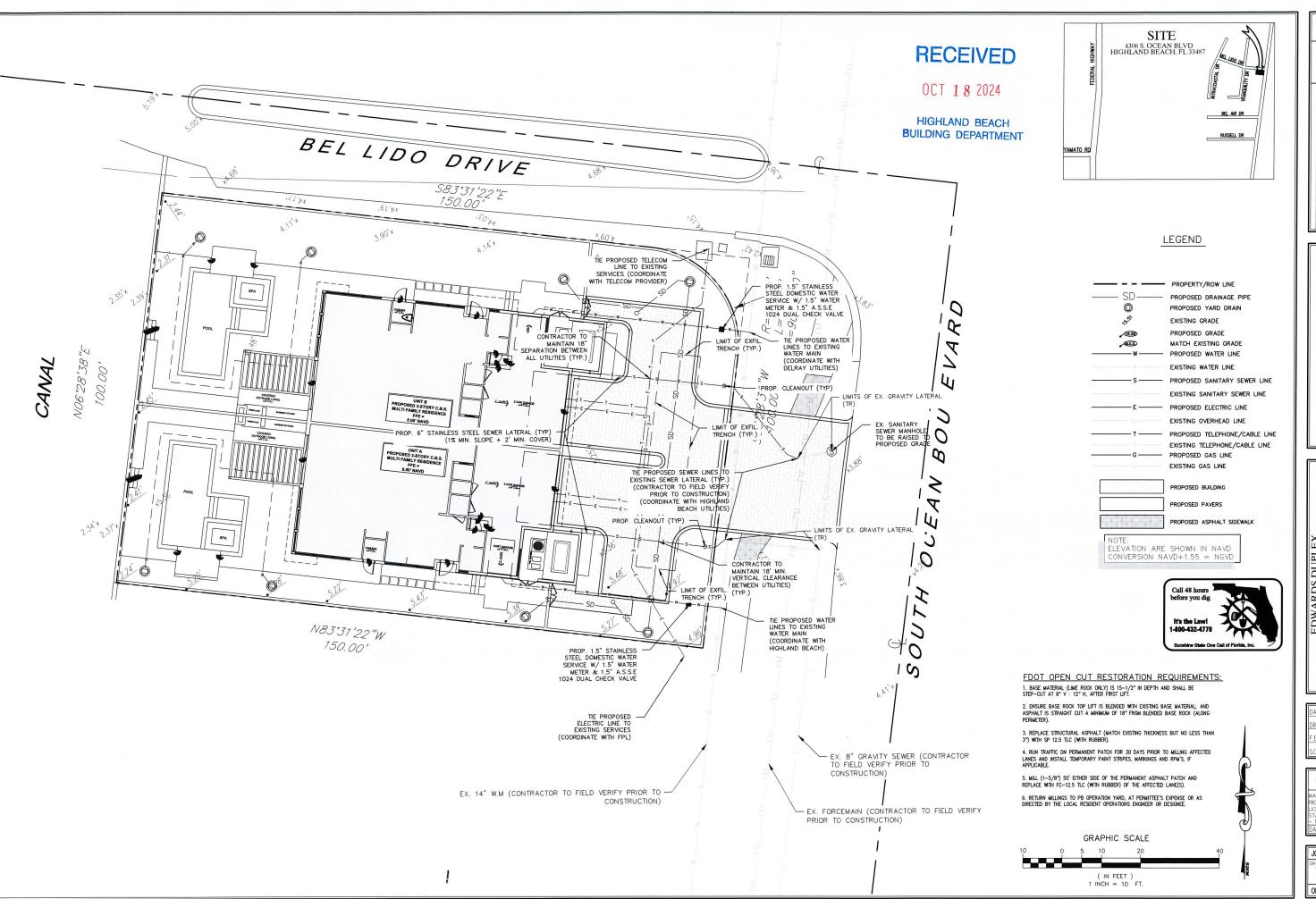
F.B./ PG. ----SCALE N/A

MATTHEW V. KAHN
PROFESSIONAL ENGINEER
LICENSE NO. B2227
STATE OF FLORIDA
– FOR THE FIRM —
DATE

JOB # 10771 SHT.NO DF 12 SHEETS







 REV PER CITY COMMENTS
 O7/02/24
 JJB

 REVISIONS
 DATE
 BY

CAULFIELD & WHEELER, INC.
CIVIL ENGINEERING
THOUSCAPE ARCHITECTURE – SURVEYING
7900 GLAPES FOAD – SUITE 100
BOCA RATION, FLORIDA 33434
PHONE (561)—392—1991 / FAX (561)—750—1452

EDWARDS DUPLEX
PROPOSED WATER DISTRUBUTION,
SANITARY SEWER & UTILITY PLAN
4306 S. OCEAN BLVD
HIGHLAND BEACH, FLORIDA 33487

DATE 04/16/24 DRAWN BY JRH F.B./ PG. ----SCALE 1"= 10'

Depresentation of the property of the property

JOB # 10771 SHT.NO. WS-1 OF 12 SHEETS

PRESSURE PIPE NOTES:

- FOR PIPE SIZES 4"-8" THERE SHALL BE 30" MINIMUM COVER FROM FINISHED GRADE TO TOP OF PIPE. FOR PIPE SIZE 10" AND LARGER THERE SHALL BE 36" MINIMUM
- DUCTILE IRON PIPE (DIP) FOR FORCE MAINS SHALL BE CLASS 350 WITH 401 EPOXY LINED IN ACCORDANCE WITH AWWA C550.
- 2.b. DUCTILE IRON PIPE (DIP) FOR WATER MAINS SHALL BE CLASS 350 IN ACCORDANCE WITH AWWA C151 (ANSI A21.51), AND SHALL HAVE AN INTERNAL LINING OF CEMENT MORTAR IN ACCORDANCE WITH AWWA C104/ A21.4.
- C-900 PVC PRESSURE PIPE MAY BE USED IN LIEU OF DIP WATER MAIN WITH METAL TAPE AND WIRE ABOVE THE PIPE.
- ALL FITTINGS FOR FORCE MAIN SHALL BE CLASS 350 DUCTILE IRON WITH MECHANICAL JOINTS AND 401 EPOXY LINING.
- WATER MAIN VALVES 12 INCHES AND SMALLER SHALL BE RESILIENT-SEAL WEDGE GATE VALVES IN ACCORDANCE WITH AWWA C509. WATER MAIN VALVES LARGER THAN 12 INCHES SHALL BE BUTTERFLY VALVES IN ACCORDANCE WITH AWWA C504. SEWAGE FORCE MAIN VALVES SHALL BE RESILIENT-SEAL PLUG VALVES IN ACCORDANCE WITH AWWA C517.
- ALL TRENCHING, PIPE-LAYING, BACKFILL, PRESSURE TESTING, AND DISINFECTION MUST COMPLY WITH CITY AND LOCAL GOVERNMENTAL REGULATIONS AND STANDARDS.
- WATER AND FORCE MAINS SHALL BE PIGGED A MINIMUM OF TWO TIMES, AND ADDITIONALLY, IF REQUIRED BY ENGINEER OF RECORD, AS WELL AS, PRESSURE TESTED FOR A PERIOD OF NOT LESS THAN TWO HOURS AT 150 PSI IN ACCORDANCE WITH ANSI/AWWA C600 LATEST STANDARDS. ALLOWABLE LEAKAGE SHALL BE DETERMINED AS FOLLOWS:

ı	_ SD√F	
_	_	148 000

L = ALLOWABLE LEAKAGE (GALLONS PER HOUR) S = PIPE LENGTH (FEET) D = NOMINAL DIAMETER OF PIPE (INCHES) P = AVERAGE TEST PRESSURE (PSI)

- RESTRAINTS SHALL BE PROVIDED AT ALL FITTINGS AS SHOWN ON PP 2.0 AND 2.1
- PRIOR TO ANY TESTING UNDER FUTURE PAVEMENT, ROCK SHALL BE FINISHED & PRIMED OR 1ST LIFT OF ASPHALT PLACED.
- 10. PIG SIZE SHALL BE PIPE DIAMETER PLUS 2" OR NEXT LARGER DIAMETER.
- NO PROPOSED STRUCTURES SHALL BE INSTALLED WITHIN A HORIZONTAL DISTANCE OF 10-FEET FROM ANY EXISTING OR PROPOSED WATER OR FORCE MAINS.
- 12. LINE STOPS SHALL BE INSTALLED A MINIMUM OF 3 PIPE LENGTHS FROM LOCATION OF PIPE REMOVED AND PROVIDE NECESSARY JOINT RESTRAINTS.

To La	CITY of DELRAY BEACH
	PUBLIC WORKS DEPARTMENT 434 BOUTH SWINTON AVENUE, DELIRAY BEACH, FLORIDA 33444

PRESSURE PIPE NOTES

PP 1.0

MINIM	JM LENGT	HS	OF	PIF	PΕ	(FT) T	ОВ	E
	R	EST	RAI	NED)				
FITTIN	IG TYPF		PIPE SIZE						
1 1 1 1 1115	TITING TITE				10"	12"	16"	20"	24"
90° H	ORIZ. BEND	14	20	25	30	35	45	54	62
45° HC	ORIZ. BEND	6	8	11	13	15	19	22	26
22.5° H	ORIZ. BEND	3	4	5	6	7	9	11	12
11.25° H	IORIZ. BEND	1	2	3	3	4	4	5	6
90° VERT.	UPPER BEND	55	79	103	125	147	189	228	266
OFFSET	LOWER BEND	22	38	49	59	69	88	106	123
45° VERT.	UPPER BEND	22	32	42	51	60	77	93	109
OFFSET	LOWER BEND	10	14	19	23	28	35	43	50
22.5° VERT.	UPPER BEND	7	12	17	21	26	34	42	49
OFFSET	LOWER BEND	2	4	6	8	10	14	17	21
11.25* VERT.	UPPER BEND	3	4	6	9	11	15	19	22
OFFSET	LOWER BEND	1	1	1	2	3	5	7	8
PLUG (DEAD END)	32	45	59	70	83	107	129	151
INLIN	E VALVE	32	45	59	70	83	107	129	151
	4" X Ø"	23						100	
	6" X ø"	21	35						
	8" × ø"	18	34	47					
TEE (BRANCH	10" X ø"	16	32	46	58				
RESTRAINT)	12" X ø"	13	30	44	57	69			
,	16" X ø"	7	26	41	55	67	90		
İ	20" X ø"	1	21	38	52	65	88	109	
	24" X ø"	1	16	34	49	62	86	108	129
11	6" X ø"	23					-		
	8" X ø"	38	25						
REDUCER	10" X ø"	57	43	24					
LARGER PIPE	12" X ø"	72	60	44	41				
RESTRAINT)	16" X ø"	99	90	78	75	45			
	20" X ø"	123	116	107	105	81	45		
	24" X ø"	146	140	132	131	111	82	45	

RESTRAIN PIPE ONE BELL PAST MINIMUM DISTANCE

STORM AND SANITARY SEWERS CROSSING UNDER WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED THE CROSSING SHALL BE ARRANCED SO THAT THE SEWER PIPE JOINTS AND WATER MAIN JOINTS ARE EQUIDISTANT FROM POINT OF CROSSING WITH NO LESS THAN (10) FEET BETWEEN ANY I'MO JOINTS AND BOTH PIPES SHALL BE D.I.P., AND THE MINIMUM VERTICAL SEPARATION SHALL BE 6 INCHES. WHERE THERE S NO ALTERNATIVE TO SEWER PIPES CROSSING OVER A WATER MAIN, THE CRITERIA FOR MINIMUM 18" VERTICAL SEPARATION BETWEEN LINES AND JOINT ARRANCEMENT, AS STARTED ABOVE, SHALL BE REQUIRED AND BOTH PIPES SHALL BE CLASS 350 D.I.P. IRRESPECTIVE OF SEPARATION. D.I.P. IS NOT REQUIRED FOR STORM SEWERS.

MAINTAIN (10) FEET HORIZONTAL DISTANCE BETWEEN WATER MAIN AND STORM OR SANITARY SEWER MAIN, AS A MINIMUM.

FORCE MAIN CROSSING WATER MAIN SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE FORCE MAIN AND THE OUTSIDE OF THE WATER MAIN WITH WATER MAIN CROSSING OVER FORCE MAIN.

SEWER SERVICE LATERALS SHALL CROSS UNDER WATERMAINS WITH A MINIMUM VERTICAL SEPARATION OF LICHTEN (18) INCHES FOR WATERMAINS WITH A MINIMUM VERTICAL SEPARATION CANNOT BE MAINTAINED, THEN THE WATERMAIN SHALL BE D.I.P. AND THE SANITARY LATERAL C-900 SDR18 OR BETTER AND THE MINIMUM SEPARATION SHALL BE SIX (6) INCHES.

WHEN IT IS NOT POSSIBLE FOR THE WATER MAIN TO CROSS OVER THE SEWER SERVICE LATERAL A MINIMUM WERTICAL SEPARATION OF AT LEAST TWELVE (12) INCHES MUST BE MAINTAINED. THE WATERMAIN SHALL BE D.I.P. AND THE SEWER LATERAL SHALL BE C-900 SDR-18 OR BETTER.

CITY of DELRAY BEACH

SANITARY/STORM SEWER MAIN-

PP 2.0

1. THE DATA IN THE PREVIOUS TABLE IS BASED UPON THE FOLLOWING INSTALLATION CONDITIONS:

TEST PRESSURE ..150 PSI, 200 PSI FOR PIPES LARGER THAN 24" VERTICAL OFF-SE ALONG TEE RUN ..

- 2. THE RESTRAINED PIPE LENGTHS APPLY TO DUCTILE IRON PIPE AND PVC PIPE. 3. ALL JOINTS BETWEEN UPPER AND LOWER BENDS SHALL BE RESTRAINED.
- 4. RESTRAINED PIPE LENGTHS FOR VALVES APPLY TO PIPE ON BOTH SIDES OF
- 5. THE PREVIOUS TABLE SHALL SERVE AS A GENERAL DESIGN GUIDE ONLY, IT IS THE ENGINEER OF RECORD'S RESPONSIBILITY TO JUSTIFY AND DOCUMENT ANY DEVIATIONS FROM THE PIPE LENGTHS SPECIFIED IN THE PREVIOUS TABLE.
- 6. SOURCES: EBAA IRON RESTRAINT LENGTH CALCULATION PROGRAM FOR PVC PIPE, RELEASE 3.1 (LATEST EDITION) AND DIPRA RESTRAINT FOR DUCTILE IRON PIPE, RELEASE 3.2 (LATEST EDITION).
- RESTRAINED JOINTS SHALL EXTEND ONE JOINT BEYOND MINIMUM LENGTH REQUIRED.

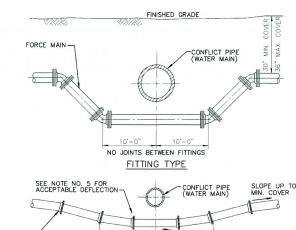
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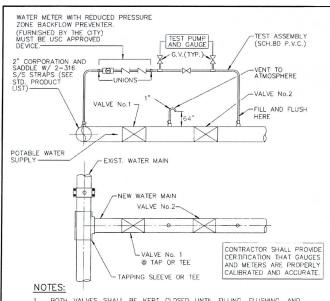
HIGHLAND BEACH BUILDING DEPARTMENT



PP 2.1







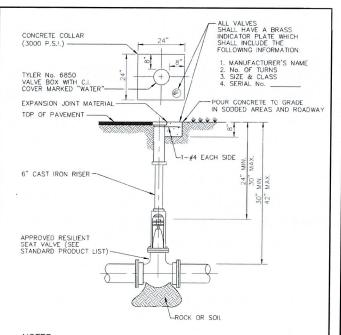
- BOTH VALVES SHALL BE KEPT CLOSED UNTIL FILLING, FLUSHING, AND BACTERIOLOGICAL TESTING IS COMPLETED AND APPROVED.
- GAUGE AND RISER TO BE REMOVED AFTER PRESSURE TEST.
- CITY SHALL BE NOTIFIED BEFORE FILLING AND FLUSHING.
- AFTER RELEASE FROM THE HEALTH DEPARTMENT, BOTH VALVES TO BE LEFT OPEN WITH VALVE BOX INSTALLED ON BOTH VALVES.
- PRESSURE TEST PUMP MAY CONNECT TO SERVICE LINE, FIRE HYDRANTS OR BLOWCFF. NO EXTRA TAPS ARE PERMITTED SOLELY FOR TESTING PURPOSES UNLESS PRECEEDING ARE NOT PRESENT IN TEST SECTION.
- TAPPING SADDLE OR SLEEVE (PER CURRENT CITY PRODUCT LIST) IS REQUIRED ON EXISTING MAIN.
- SETUP FOR ALL DOUBLE VALVE CONNECTIONS TO INCLUDE ATMOSPHERE VENTS AS SHOWN ABOVE.
- OUTLET ON VENT TO ATMOSPHERE A MINIMUM 24" ABOVE EXISTING GRADE.

CITY OF DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 BOUTH SWAFTON AVENUE DELIAY BEACH, PLORIDA 33444

FILL & FLUSH DETAIL

PW 1.0

CITY Of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
4.8 SOUTH PROTO WORKS DEAVE (EACH FLOYED SOME
WATER MAIN & SEWER CONFLICTS

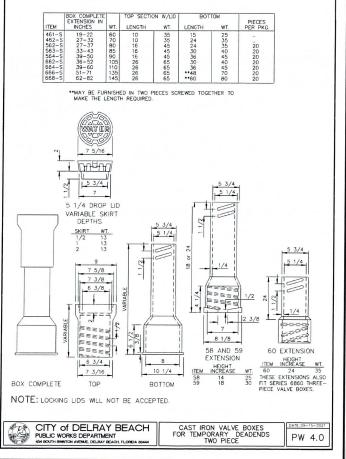


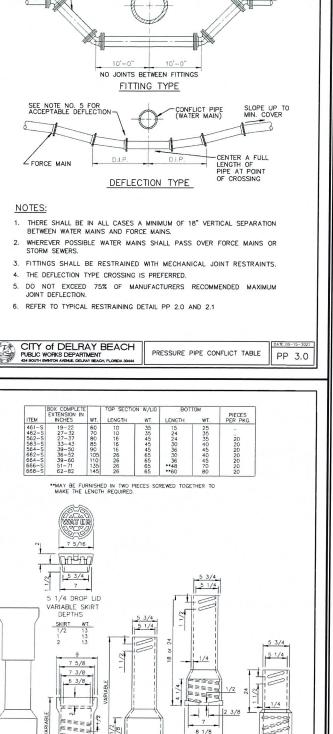
- WHEN VALVE IS DEEPER THAN 30" AN EXTENSION WITH UNIVERSAL JOINT SHALL BE REQUIRED TO BRING OPERATING NUT 24"-30" BELOW FINISHED GRADE EXTENSION BOLTS & NUTS SHALL BE 316 STAINLESS STEEL. A 316 STAINLESS STEEL CENTERING PLATE SHALL ALSO BE REQUIRED.
- 2. AT DEAD END OR WHERE MAIN LINES CHANGE DIRECTION, VALVES SHALL BE RESTRAINED USING MECHANICAL JOINT RESTRAINTS, TIE RODS, OR OTHER RESTRAINT APPROVED BY UTILITIES DEPARTMENT (NO THRUST BLOCKS ALLOWED).



TYPICAL GATE VALVE DETAIL 4" THRU 12"

PW 3.0







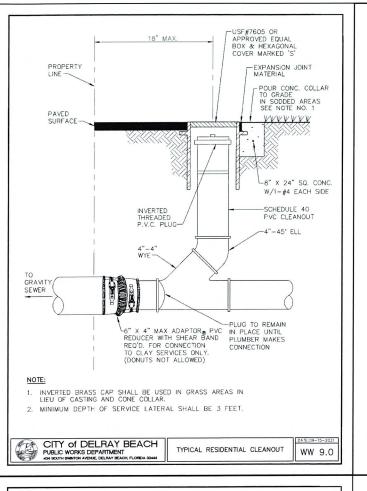
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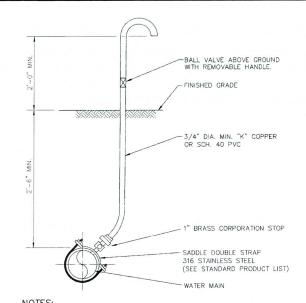
8 ED PROPOSED WA SANITARY

ATE 04/16/2 DRAWN BY JR F.B. / PG. --

MATTHEW V. KAHI FESSIONAL ENGINEE TATE OF FLORIDA FOR THE FIRM -

JOB # 10771 WS-2 OF 12 SHEETS





NOTES:

6" PIPE NIPPLE

CONCRETE

YPE I COPPER OR BRASS -

- 1. SAMPLE POINT SHOULD BE AT SERVICE LINE OR FIRE HYDRANT IF POSSIBLE
- IF SAMPLE POINT IS NOT AT SERVICE LINE OR FIRE HYDRANT, CORP. STOP SHALL BE SHUT OFF AT MAIN AND ALL TUBING SHALL BE REMOVED, AND CORP. STOP SHALL HAVE A BRASS PLUG OR CAP INSTALLED AFTER RELEASE OF WATER MAIN BY PALM BEACH COUNTY HEALTH DEPARTMENT.
- IF AT ALL POSSIBLE SAMPLE POINT SHALL NOT BE LOCATED IN A TRAFFIC AREA.
- SAMPLE POINTS SHALL KEEP RUNNING UNTIL PALM BEACH COUNTY HEALTH DEPARTMENT RELEASE AND ALL MAIN LINE VALVES ARE OPENED.

ELEVATION

PIPE SUPPORT DETAIL

2. ABOVE GRADE PIPING SHALL BE BRASS OR TYPE "L" COPPER OR BRASS TUBING.

4. USC APPROVED RPZ BACKFLOW PREVENTER IS REQUIRED IN ACCORDANCE WITH CITY OF DELRAY BEACH CODE OF ORDINANCES TITLE V, CHAPTER 52.83.

5. USC APPROVED RPZ BACKFLOW PREVENTER IS REQUIRED FOR ALL COMMERCIAL PROPERTIES AND ALL RESIDENTIAL PROPERTIES WITH FIRE SPRINKLER SYSTEMS



METER SIDE

TYPICAL SAMPLE POINT PW 10.0

- 90.

CONCRETE

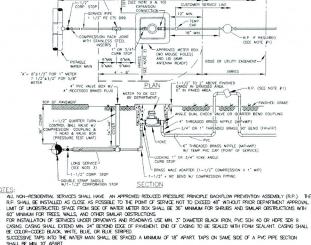
-STD. 316 S/S U-BOLT, NUTS AND WASHERS

USC APPROVED
BACKFLOW PREVENTER
BALL VALVES

PIPE SUPPORT (TYP.)
(SEE DETAIL BELOW)

CUSTOMER SIDE

PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELIVAY BEA



GRASS AREA

SALESANE, IA'S INITE THE WITER MAIN SHALL BE SPACED A MINIMAM OF 18" APART, TAR'S ON SAME SIDE OF A PAC PIPE SECTION SHALL BE MIN OF APART.

METER SHALL NOT BE PLACED IN SIDEWALK OR DRIVENINY AREAS, WAIRE SERVICE LINES AND TAYS SHALL NOT BE PLACED UNDER DRIVENING WEDGER POSSIBLE AND FEGURED, OVER WITH PRIOR DEPARTMENT APPROVED.

MANUMA SERVICE LINENT IS 100" TO METER.

MATERIALS JUST AND CODER (MIN 4") OURS SERVICE LINE OR CASING SHALL CONSIST OF FINE GRANLAR MATERIAL LINSLITABLE IN-STU MATERIALS SUCH AS MUCK, CERRS AND LARGER ROOKS SHALL BE REMOVED WITH 2" MAXIMAM SIZE.

MAILERA'S SOUT AS MOUNT CONTROLLED AND MOUNT PROVIDED THE PLAN MOUNT AS MOUNTAINED THE PRIVEWAY AND/OR SIDEWAY MAIST MANUAL MOST THANKS FOR DRIVEWAY AND/OR SIDEWAY MAIST MANUAL MOSTATACTERS FOR DRIVEWAY AND/OR SIDEWAY MAIST MANUAL MOSTATACTERS SPACE AS SHOWN IN NOTE 2 AND ON THE PLAN MEW IS PROMODED WITH 12" MANUAL MORTICAL SEPARATION REQUIRED TO ALL OTHER UTULES.

THE REQUIRED BORNLOW PREVANION ASSENEY/PEWOE IS INSTALLED AND HAS PASSED INITIAL TEST.

METER TO BE INSTALLED BY DEPARTMENT. THE PHYNO BEYOND THE CONTROL WAVE TO BE INSTALLED BY THE DEVELOPER OR THE PERFARMENT BEPONDS ON HE THE PER OF SERVICE INSTALLED BY THE DEVELOPER OR THE METER TO BE INSTALLED BY THE DEVELOPER OR THE METER OF SERVICE INSTALLATION ROUSE.

THE DESCRIPTION OF THE PER OF SERVICE INSTALLATION ROUSE THAT WAS ASSENTED
CITY OF DELRAY BEACH
POTABLE WATER SERVICE SINGLE
1" METER INSTALLATION DETAIL PW 12.0

CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT

9. ALL VALVES TO BE BALL VALVES.

NOTES

PRODUCTS LIST FOR METER BOX AND COVER TYPES

METER BY CI

2. SERVICE LINES SHALL NOT BE PLACED UNDER DRIVEWAYS.

6. CASING PIPE I.D. SHALL BE SERVICE O.D. PLUS 1" MINIMUM.

5. MAXIMUM SERVICE LENGTH IS 100' TO METER.

BE PLACED WITHIN A DOUBLE METER BOX.

SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE SPACED A MINIMUM OF 18" ON CENTER.

3. ALL METERS REQUIRE A LOCKING BRASS CURB STOP WITH LOCK WING (1" MIN.).
4. NO FITTINGS BETWEEN CORPORATION STOP AND BRANCH ASSEMBLY.

7. MINIMUM BEND RADIUS ON SERVICES SHALL BE 14" ON ALL SERVICES BEHIND METER.

8. METER SIZE WILL BE DETERMINED BY PUBLIC UTILITIES DEPT. UPON APPLICATION FOR SERVICE.

10. METER BOX SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR.

12. ALL EXISTING SERVICES TO BE FIELD VERIFIED BY BUILDER/CONTRACTOR/DEVELOPER; IF EXISTING SERVICE IS GALVANIZED, BUILDER/CONTRACTOR/DEVELOPER SHALL REPLACE WITH POLYETHYLENE PIPING FROM MAIN TO METER.

ABOVE CONFIGURATION APPLIES TO PLACEMENT AT SINGLE FAMILY RESIDENCES. FOR DOUBLE SERVICES PLACED AT MULTI-FAMILY RESIDENCES THE TWO SERVICES SHALL

TYPICAL DOUBLE SERVICE

-ROTATE BENDS AS REQUIRED

- ERASS CURB STOP STRAIGHT BALL VALVE WITH LOCKING WING (SEE STANDARD PRODUCT LIST)

TUBING PE-4710/ SDR-9 AS PER AWWA

PRODUCT LIST)

_2" MIN. SERVICE

BRANCH BRASS COMPRESSION (SEE STANDARD

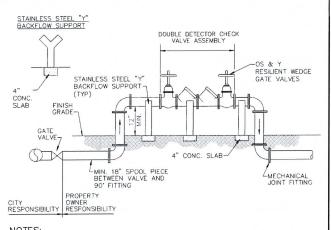
316 S.S. DOUBLE STRAP SADDLE WITH BRASS CORPORATION STOP (SEE STANDARD PRODUCT LIST)-

PW 15.0

HEU

HIGH

BUILDING



NOTES:

- 1. FOR ALL SERVICES GREATER THAN 2" DIA.
- ALL PIPE AND FITTINGS SHALL BE CLASS 350 DUCTILE IRON CEMENT LINED WITH CEMENT LINED DUCTILE IRON FLANGE FITTINGS FOR ABOVE GROUND USE. MECHANICAL JOINT SHALL BE USED UNDERGROUND IN ACCORDANCE WITH AWWA STANDARDS.
- THE DOUBLE DETECTOR CHECK VALVE ASSEMBLY SHALL MEET AWWA M14 AND AWWA C510, AND APPROVAL OF UTILITIES DEPARTMENT.
- CERTIFICATION OF PROPER INSTALLATION AND OPERATION WILL BE REQUIRED FROM A CERTIFIED BACKFLOW PREVENTION TECHNICIAN PRIOR TO WATER MAIN ACCEPTANCE BY THE CITY OF DELRAY BEACH.
- THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR THE PROPER OPERATION, MAINTENANCE AND ANNUAL TESTING OF THE DOUBLE DETECTOR CHECK VALVE ASSEMBLY.
- 6. BOLLARDS TO BE USED IF THE ASSEMBLY IS WITHIN 5' OF THE PAVEMENT, REFER TO BOLLARD DETAIL PW 7.0.
- 7. CITY OF DELRAY BEACH WILL MAINTAIN TILL THE FIRST GATE VALVE.
- WATER MAIN WILL BE PLACED IN A UTILITY EASEMENT UP UNTIL THE FIRST GATE VALVE. DOUBLE DETECTOR ASSEMBLY WILL NOT BE WITHIN THE EASEMENT.

CITY of DELRAY BEACH

DOUBLE DETECTOR CHECK VALVE PW 16.0

CITY of DELRAY BEACH

NOTES:

CONCRETE

S/S NUT AND BOLT (TYP)

1. FOR ALL SERVICES LESS THAN OR EQUAL TO 2" DIA.

3. ALL COPPER JOINTS SHALL BE MADE WITH 95/5 SOLDER.

COLUMN

REDUCED PRESSURE ZONE BACKFLOW PREVENTER

PW 17.0

GRAVITY SEWER NOTES

- MANHOLES SHALL BE INSPECTED BY THE ENGINEER BEFORE PLACEMENT AND SURFACE TREATMENT.
- ALL OPENINGS IN PRECAST MANHOLES SHALL BE CAST AT TIME OF MANUFACTURE CONNECTIONS TO EXISTING MANHOLES SHALL BE CORE ENTRY ONLY.
- 3. ALL MANHOLES SHALL BE SET PLUMB TO LINE AND GRADE.
- (PVC) GRAVITY SEWER PIPE SHALL CONFORM TO ASTM D 3034, SDR 35, LATES REVISIONS, WITH PUSH ON RUBBER GASKET JOINTS. (DIP) GRAVITY SEWER PIPE SHALL BE CLASS 350, 401 EPOXY LINED OR AS OTHERWISH APPROVED BY UTILITIES DEPARTMENT.
- NO SERVICE CONNECTIONS, WYES, SERVICES OR VALVES WILL BE PERMITTED RESIDENTIAL DRIVEWAYS.
- MESIDENTIAL DRIVEWAYS.

 MANHOLE FRAMES SHALL BE ATTACHED TO THE PRECAST STRUCTURE WITH A MINIMUM OF TWO 3/4" 316 STAINLESS STEEL BOLTS, NUTS AND WASHERS. FRAMES SHALL BE SEALED WITH A MINIMUM OF TWO 1/2" BEADS OF RAM-NEK CAULKING.

 TRENCHES SHALL BE DE-WATERED TO ENABLE PIPE AND APPURTENANCES TO BE INSTALLED FREE OF WATER ON UNDISTURBED SOUL IF UNSUITABLE SUBSURFACE MATERIAL IS ENCOUNTERED, EXCAVATE EXTRA 6" AND BACKFILL WITH 3/4" GRAVEL.
- PVC SHALL BE LAID IN STRICT CONFORMANCE TO MANUFACTURER'S SPEC (JOHNS MANUFLE RING TITE PVC PIPE INSTALLATION GUIDE OR EQUAL). BACKFILLING OF UTILITY TRENCHES WILL NOT BE ALLOWED UNTIL INSPECTED BY THE ENGINEER.

 BACKFILL MATERIAL FOR SEWER MAIN AND LINES SHALL BE NON-COHESIVE. NON PLASTIC MATERIAL FREE OF ALL DEBRIS. LUMPS AND ORGANIC MATTER. BACKFILL MATERIAL PLACED WITHIN ONE (1) FOOT OF PIPING AND APPURTENANCES SHALL NOT CONTAIN ANY STONES LARGER THAN TWO (2) INCHES IN DIAMETER (1" FOR PVC PIPE) AND NO STONES LARGER THAN TWO (2) INCHES IN DIAMETER (1" FOR PVC PIPE) AND NO STONES LARGER THAN TWO (2) INCHES IN DIAMETER (1" FOR PVC PIPE) AND NO STONES
- ALL EXCAVATION IN EXISTING RIGHT OF WAY SHALL BE BACKFILLED AND STABILIZED AT THE END OF EACH DAY TO PERMIT PEDESTRIAN AND VEHICULAR TRAFFIC PRIOR TO THI CONTRACTOR LEAVING THE SITE.
- WHERE SEWER IS NOT WITHIN PUBLIC R/W, IT IS TO BE LOCATED IN A 12' UTILIT EASEMENT. CITY MAINTENANCE RESPONSIBILITY IS MANHOLE TO MANHOLE ONLY. EASEMENT. OTT MAINTENANCE RESPONSIBILITY IS MANHOLE TO MANHOLE TOKET.

 JPON COMPLETION OF THE WORK AND PRIOR TO PLACEMENT OF ASPHALT A VISUA
 INSPECTION BY THE ENGINEER SHALL BE MADE OF THE COMPLETED SYSTEM ALONG WITH
 LOW PRESSURE AIR TEST, AFTER ROCK BASE FINISHED & PRIMED OR 1ST LIFT OF
 ASPHALT PLACED. AFTER ALL OTHER TESTING HAS BEEN COMPLETED, A CD VIDE
 RECORDING SHALL BE MADE BY THE CONTRACTOR AND APPROVED BY THE ENGINEER
 BEFORE THE LENGTHS ARE ACCEPTED FOR MAINTENANCE.
- EACH LINE SEGMENT SHALL BE LAMPED TO DETERMINE PROPER ROUNDNESS.
- COMPLETE "AS BUILT" INFORMATION RELATIVE TO MANHOLES, VALVES, SERVICES FITTINGS PIPE LENGTHS, INVERTS AND SLOPES SHALL BE ACCURATELY RECORDED & SUBMITTED TO THE ENGINEER CITY SIGNED AND SEALED BY A REGISTERED LAND SURVEYOR.
- AT THE END OF THE ONE (1) YEAR WARRANTY PERIOD THE DEVELOPER/CONTRACTOR WILL T.V. INSPECT. AT TEST EVERY JOINT, AND CHECK MANHOLE JOINTS AND CONNECTIONS TO DETERMINE IF REPAIRS ARE NECESSARY BEFORE THE WARRANTY BOND IS RELEASED.
- ANY PIPE INTRODUCED INTO AN EXISTING MANHOLE MUST HAVE CARBOLINE BITUMASTIC 300M OR APPROVED COUAL APPLIED EXTERNALLY WITHIN A MINIMUM 2-FOOT RADIUS OF OPENING AND THE ENTIRE MANHOLE MUST HAVE SEWPER COAT OR APPROVED EQUAL APPLIED INTERNALLY.
- ANY REHABILITATION TO AN EXISTING MANHOLE MUST BE INTERNALLY STRIPPED AND LINED WITH SEWPER COAT OR APPROVED EQUAL.

CITY OF DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 BOUTH BINNTON AVENUE DELIAN BEACH FLORIDA 33444

GRAVITY SEWER NOTES

WW 1.0

W. -ALTERNATE: ADDITIONAL RISER AND BEND WHERE GREATER SEWER DEPTH 1/8" PER FOOT MIN ROTATE BEND AS REQUIRED MIN. 6" PVC SDR 35 SLOPE UP TO P -CLEANOUT ON EACH BRANCH MAKE SERVICE CONNECTION AT R/W LINE DOUBLE SERVICE SEWER MAIN -6" MIN. SERVICE LINE PROPERTY LINE

CLEANOUT ON EACH BRANCH

(BY OTHERS) R/W OR EASEMENT LINE SINGLE SERVICE PROPERTY LINE SEWER MAIN-3' MAXIMUM 6" MIN. SERVICE LINE CLEANOUT (BY OTHERS) -R/W OR EASEMENT LINE SERVICE LATERALS SHALL TERMINATE INSIDE PROPERTY LINE A DEPTH OF 3 FEET AND MARKED WITH A 2"X 4" TREATED STAKE.

- CLEANOUT INSTALLATION SHALL BE PROPERTY OWNERS RESPONSIBILITY AND SHALL BE INSTALLED BY LICENSED PLUMBER.
- 3. SEE DETAIL PW 2.0 FOR SEPARATION REQUIREMENTS.

CITY OF DELRAY BEACH
PUBLIC WORKS DEPARTMENT
494 SOUTH SWINTON AVENUE, DELIVAY BEACH, FLORIDA 33444

SEWER SERVICE CONNECTION

WW 8.0

JOB # 10771 WS-3 OF 12 SHEETS

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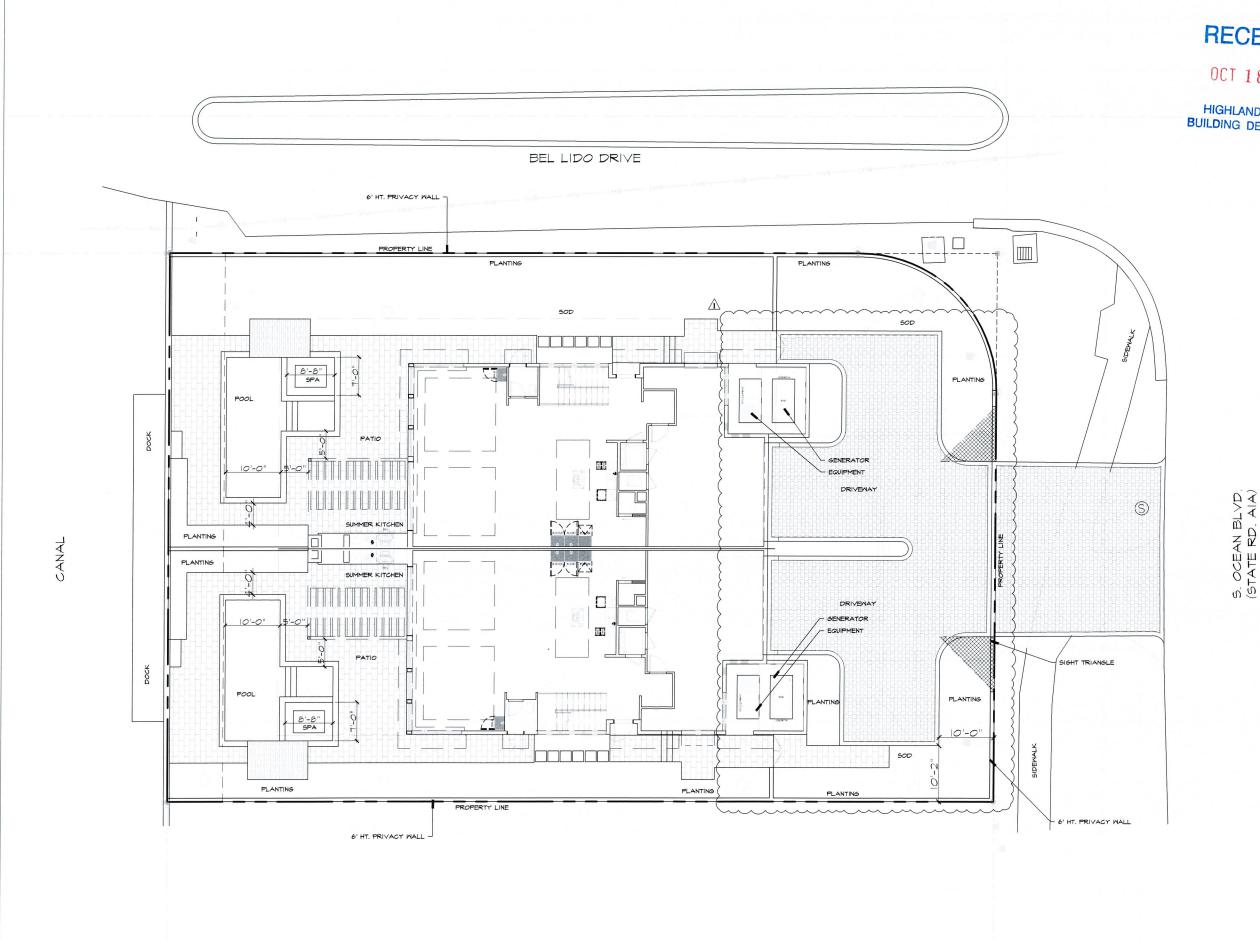
OCT 18 2024

HIGHLAND BEACH BUILDING DEPARTMENT



S. OCEAN BLVD. (STATE ROAD A1A)







OCT 18 2024

HIGHLAND BEACH BUILDING DEPARTMENT

LC - 0000396 2300 Corporate Blvd. NW. Suite 214

Ph: 561.955.8623

Fax: 561.362.4749



BOULEV **4306 S OCEAN** HIGHLAND BEACH, FL HARDSCAPE PLAN

05-28-2024 Revision 08-13-2024 Revision

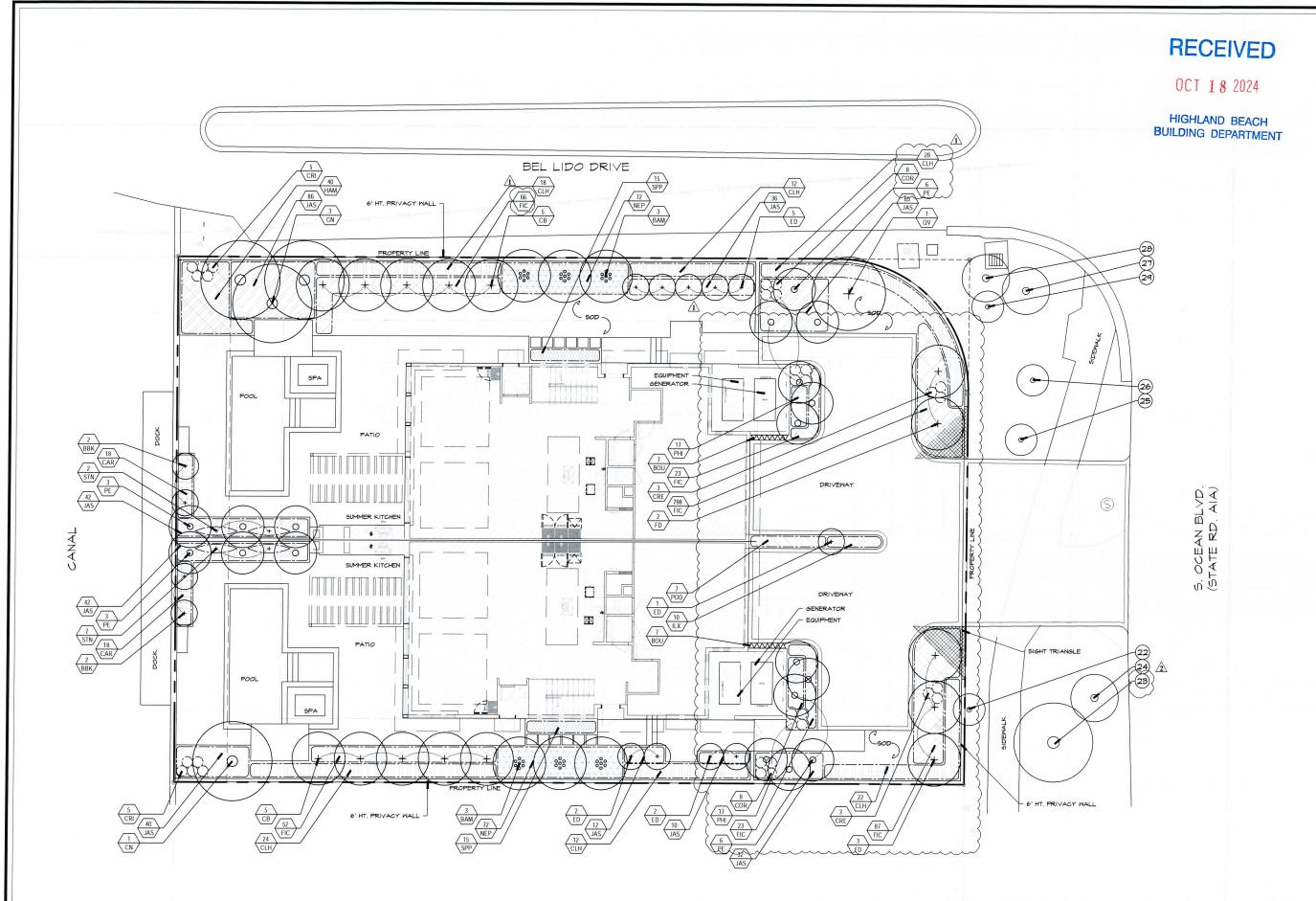
FEBRUARY 2, 2024
DATE

M.S. DRAWN BY

M.J.
APPROVED BY:

LH-1

SCALE: 1/8" = 1' - 0"







LC - 0000396 2300 Corporate Blvd. NW. Suite 214 Ph: 561.955.8623

Fax: 561.362.4749

ARD BOULEV 4306 S OCEAN HIGHLAND BEACH, FL LANDSCAPE PLAN

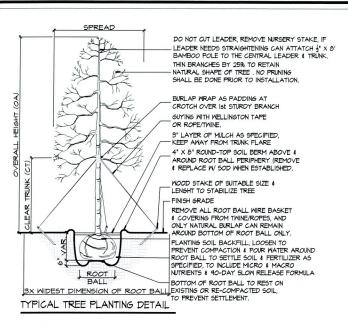
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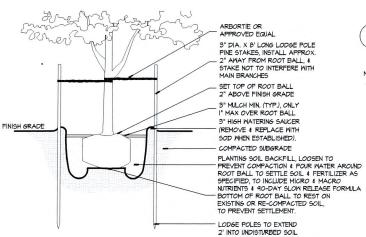
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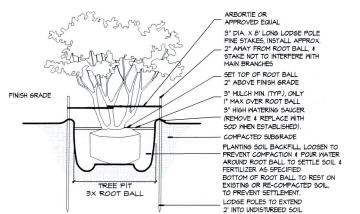
M.J. APPROVED BY:

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NOTE: CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION SMALL TREE PLANTING DETAIL



NOTE: CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION

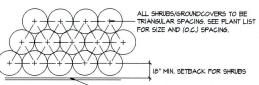
MULTI TRUNK TREE PLANTING DETAIL

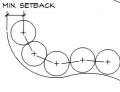


TYPICAL IRRIGATION HEAD LAYOUT FOR 150% COVERAGE AS RECOMMENDED BY IRRIGATION PROFESSIONALS. 150% OVERLAP COVERAGE WILL BE PROVIDED FOR ALL LANDSCAPED AREAS. IRRIGATION SYSTEM WILL INCLUDE A RAIN SENSOR.

REMOVE 1/2 OF LOWER FRONDS, TIE REMAINING FRONDS TO PROTECT BUD. (SABAL PALMS) DEAD 'BOOTS' MAY REMAIN 1-2' BELOW LIVE FRONDS. CROWNSHAFT ON SOME SPECIES (WASHINGTONIA PALMS) 'BEARD' TO REMAIN WHERE POSSIBLE. -WRAP TRUNK WITH BURLAP PADDING _DOUBLE BAND 3 MIN - 6" WOOD BATTENS TO TRUNK WITH BURLAP -NATURAL CLEAN LUMBER STAKES ANGLED SUPPORT & AT PROPER LENGTH PER TREE -3" LAYER OF MULCH AS SPECIFIED 3" HIGH WATERING SAUCER (REMOVE & REPLACE W/ SOD WHEN ESTABLISHED. -2"X4" WOOD STAKES _SAND BACKFILL & FERTILIZER AS SPECIFIED PER UF-IFAS & FLORIDA FRIENDLY STANDARDS RECOMMENDED FERTILIZER MIX FOR PALMS

TYPICAL PALM PLANTING DETAIL





NOTE: THE PERIMETER OF ALL CURVED PLANTING THE PERIMETER OF ALL CORVED PLANTING BEDS SHALL BE PLANTED NITH A ROW OF SHRIBS AS SHOWN IN THE PLANT LIST. INTERIOR SHOWN IN THE PLANT LIST. INTERIOR SHOWN IN THE PLANT LIST. INTERIOR OF EACH BED SHALL BE PLANTED AT APPROPRIATE SPACING ACCORDING TO THIS BLANTE SHALL BE PLANTED. THIS PLANT SPACING DETAIL.

12" MIN. SETBACK FOR GROUNDGOVERS

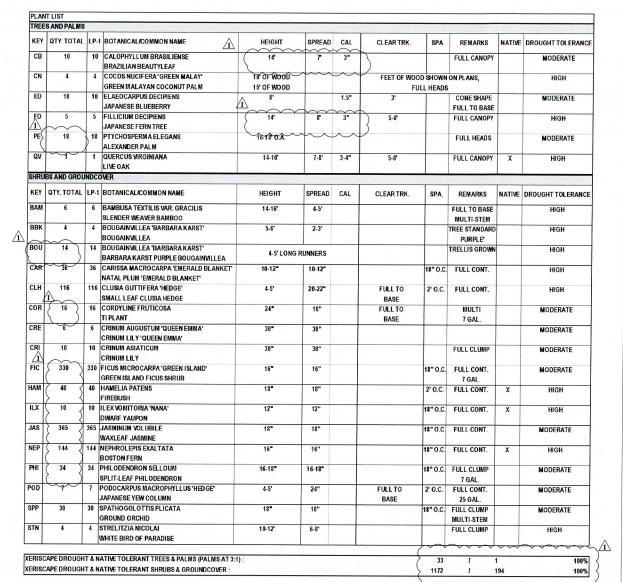
CURB/EDGE OF PAVEMENT/BED LINE



FINISH GRADE PLANTING SOIL BACKFILL, LOOSEN TO PREVENT COMPACTION & POUR WATER AROUND ROOT BALL TO SETTLE SOIL & FERTILIZER AS SPECIFIED, TO INCLUDE MICRO \$ MACRO NUTRIENTS & 90-DAY SLOW RELEASE FORMULA BOTTOM OF ROOT BALL TO REST ON EXISTING OR RE-COMPACTED SOIL, TO PREVENT SETTLEMENT.

3" LAYER OF MULCH AS SPECIFIED

TYPICAL SHRUB PLANTING DETAIL



- Sod to be St. Augustine sod. Accept where other type of sod is specified.
- Planting soil –1/2 cu. yd. per tree and 4" depth at all hedges and mass planting beds
- Sand Palms to be planted in clean sand; ¼ cu. yd. per palm
- Mulch 3" depth of shredded "dark brown" hybrid mulch B grade or better at all hedges and mass planting beds.

GENERAL NOTES

- All sod to be Stenotaphrum secundatum 'Flor-tam', St. Augustine solid sod
- Any pervious area to remain that is disturbed by construction and not indicated on landscape plans to have shrub
- All plant materials shall conform to Florida No.1 or better, and follow the standards and inspection procedures, as stated in
- "Florida Grades and Standards for Nursery Plants", Latest Edition: July 2022, State of Florida Department of Agriculture, Tallahassee All trees shall be properly guyed and staked at the time of planting to ensure proper establishmer
- by using Wellington tape/rope/twine with burlap as padding and to avoid damage of using wire or rubber hose pieces.
- The planting soil for all planting areas shall be composed of a 70:30 mix for sand and loam with up to 10% organic matter. The minimum soil depth shall be four inches in all hedges and mass planting beds and ½ cu. yd. per tree
- Three inches minimum of shredded "dark brown" hybrid mulch shall be installed around each tree and palm and
- throughout mass planting beds, the use of Cypress mulch is strongly discouraged
- Irrigation system to provide 100% coverage to landscaped areas with 50% overlap. Irrigation to be an automatic system with
- For trees designated for preservation, protective barriers shall be in place prior to the start of any construction and shall remain in place until development is completed and the Planning and Zoning Division has authorized their removal.
- The relocation of any tree and necessary tree prunning must conform to ANSI A-300 Standards for Maintenance of Trees and Woody Plants
- as well as the per the current UF-IFAS and ISA specifications and standards
- In case of discrepancies, planting plan takes precedence over plant list.

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HIGHLAND BEACH BUILDING DEPARTMENT



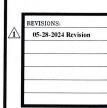
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FEBRUARY 2, 2024 DATE M.S. DRAWN BY

> M.J. APPROVED BY

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The work includes furnishing all plants, materials, equipment and labor necessary for planting of plant materials indicated on the drawings and in these specifications. A list of plants is attached to these specifications.

2. Plant Materials & Protection:

All plant materials shall be Florida Grade No.1 or better for all landscape plants, following standards and inspection procedures stated in the most recent edition of Florida Grades and Standards for Nursery plants, July 2022.

- Spread (or Spr.): Indicates average spread to midpoint of current season's growth.

- Height (or Q.A.): Indicates overall height from top of ball to midpoint of current season's growth.

- n's growtn. Indicates clear trunk measurement from top of ball to first branching (see tree \$
- Section's grown.

 C.T.: Inclicates clear trunk measurement from top of ball to first branching (see tree & Palm Planting Diagrams)

 Meter of Wood for Meter of Hard Grey Wood); Indicates measurement of Palms from top of ball to top of solid trunk before start of frond stalks or green boots". (See
- white the plagram)

 Ill quantities indicated on the plant list are intended as a guide for the bidders and ill quantities indicated on the plant list are intended as a guide for the bidders and the plant list are intended as a guide for the bidders and the plant list are intended as a guide for the bidders and the plant list are intended as a guide for the bidders and the plant list are intended as a guide for the bidders and the plant list are intended as a guide for the bidders and the plant list are intended as a guide for the bidders and the plant list are intended as a guide for the bidders and the plant list are intended as a guide for the bidders and the plant list are intended as a guide for the bidders and the plant list are intended as a guide for the bidders and the plant list are intended as a guide for the bidders and the plant list are intended as a guide for the bidders and the plant list are intended as a guide for the bidders and the plant list are intended as a guide for the bidders and the plant list are intended as a guide for the bidders and the plant list are intended as a guide for the bidders and the plant list are intended as a guide for the bidders and the plant list are intended as a guide for the bidders and the plant list are intended as a guide for the bidders are the plant list are intended as a guide for the bidders are the plant list are the pla rail quantities indicated on the plant list are intended as a guide for the bladers and does not relieve the blader of his responsibility to do a comprehensive plant take off. Should a discrepancy occur between the blader's take off and the plant list quantity, the Architect/Landscape Architect is to be notified for clarification prior to the

C. Quality and Sizes:

Plants shall have a habit of growth that is normal for the species and shall be healthy, vigorous and equal or exceed the measurements specified in the plant list, which are the minimum acceptable sizes. Plants shall be measured with branches in normal position. Pruning (Section IV.J.) should not reduce acceptable size and shape of tree, and should be done after acceptance of Architect/Landscape Architect. Requirements for measurements, branching, grading, quality, balling and burlapping of plants in the plant list, and all plant materials shall be Florida Grade No.1 or better for all landscape along the following standards and breakting acceptance standards. all landscape plants, following strandards and inspection procedures stated in the most recent edition of Florida Grades and Standards for Nursery plants, July 2022. Plants that meet the requirements specified, but do not have the normal balance of height and spread typical for the respective plant, shall not be accepted. All plant material to be healthy, pest and disease free.

D. <u>Substitution</u>:
Plant substitution requests by the Contractor will be considered by the Architect-Landscape Architect only upon submission of proof that any plant is not obtainable in the type or size specified. The Landscape Architect shall determine the nearest equivalent replacement in an obtainable size and variety. The unit price of the substitute item shall not exceed the bid item replaced, without approval of the Owner. Any substitutions shall be submitted to the city for review and approval prior to being delivered and installed by contractor.

E. Protection of Plants:

A. Balled and Burlapped Plants (B & B) shall be dug with natural balls of earth of sufficient diameter and depth to encompass the fibrous and feeding root system necessary for full recovery of the plant. Balls shall be firmly wrapped with burlap or similar materials and bound with twine, cord, or wire mesh. All collected plants shall similar máterials and bound with twine, cord, or wire mesh. Åll collected plants shall be balled and burlapped. Plants grown in containers will be accepted as B \$ B, providing that all other specified requirements are met. Container grown plants shall meet plant sizes as specified on the plant list and on the plans, and shall not be governed by container sizes. Minimum root balls or container grown material shall be no more than 25% less proportionately in size than that stated in the most recent adition of "FL Grades \$ Standards" for nursery plants (and refer to these standards and specifications for corrective root ball shaving). These plants shall have been grown in the container for a maximum of two years prior to installation and shall exhibit a fully developed root system when removed from the container. Required removal of root ball covering and materials, such as ropes/twine, and wire baskets, upon time of installation, and only natural burlap can remain at the bottom of root ball.

Protection During Transporting:
 All plant material shall be protected from possible bank injury or breakage of branches. All plants transported by open trucks shall be adequately covered to prevent windburn, drying or damage to plants.

3. Protection After Delivery:
Plants which cannot be planted immediately upon delivery to the site shall be covered with moist soil, mulch, or other protection from the drying of wind and sun.
All plants shall be watered as necessary until accepted. Storage period shall not

4. Protection of Palms:
Only a minimum of fronds shall be removed from the crown of the palm trees to facilitate moving and handling. Clear trunk (C.T.) shall be as specified after the minimum of fronds have been removed. Coconut palms shall be "hard" trees grown in marl or sand. Sobal palm buds shall be tied with a blodegradable cord to be left in place until the tree is well established in its new location. All palms shall be triple braced, with battens and natural burlap padding around trunk under braces, and staked with new, clean lumber angled to support, per length 4 size suitable to tree helght 4 to resist tree displacement. Refer to UF-IFAS details, recommendations, and specifications.

5. Protection During Planting: Trees moved by winch or crane shall be thoroughly protected from chain marks, girdling or bark slippage by means of other approved methods.

A. Fertilizer: Shall be South Florida fertilizer mix, organic fertilizer containing nitrogen, phosphoric acid and potash in equal percentages, 8-6-12 with both macro and micro nutrient, 90 day slow-release formula, and per UF-IFAS standards and Florida Friendly Landscaping recommendations, and manufacturer specifications.

Nitrogen shall be not less than 50 % from organic source. Inorganic chemical nitrogen shall not be derived from the sodium form of nitrate. Fertilizers shall be delivered to the site in unopened original containers, each bearing the manufacturer's guaranteed analysis. Any fertilizer that becomes caked or otherwise damaged shall not be acceptable.

The following shall be sterilized, certified and free of seed

- Planting Soli: Planting soli shall be a 70:30 sand to loam mix, and shall contain a 10% max. amount of decomposed organic matter, and follow UF-IFAS standards and Floridal Friendly Landscaping recommendations. Planting soll shall be free from clay, stones, plants, roots, and other foreign materials which might be a hindrance to planting operations or be detrimental to good plant growth and shall be delivered in a loose friable condition and applied in accordance with the planting specifications and details.
- C. Mulch: Mulch material to be per UF-IFAS standards and Florida Friendly Landscaping recommendations, shredded pine mulch B grade or better, "halk-on" grade, course, ground, with 25% or less volume of fine particles \$" or less in size, and 20% or less volume of particles I $\frac{1}{2}$ " or less in size. Any pieces larger than δ " long visible on the surface after installation to be removed. Mulch moistened at time of installation to
- D. Drainage Stone (when applicable): Drainage stone shall be gravel or crushed stone reasonably free of sharp edges - $\frac{1}{2}$ " in diameter - as required in the bottom of raised planters.
- E. Filter Fabric: (when applicable): Filter fabric, as required between gravel and soil in planters to be Dewitt "Filter-fabric" (800)888-9669 or equal.

4. Planting Operations:

<u>Soil Preparation:</u>
All existing soil and new fill/berms, and modified soil shall follow standard UF-IFAS

B. Layout:

Location for plants and outlines of areas to be planted are indicated on the drawings.

All plant locations shall be staked in the field by the Contractor, to the satisfaction of
the Architect/Landscape Architect. Where construction or utilities below ground or
overhead are encountered or where changes have been made in the construction,
necessary adjustments will be approved by the Architect/ Landscape Architect.

Excavation for Planting:

Excavation of holes shall extend to the required sub-grades as specified hereunder Plant pits shall be circular in outline and shall have a profile which conforms to the "Tgolcal Tree 4 Palm Planting Details"(attached). The minimum depth of plant pits specified below shall be measured from the finishing grade. Shrup planting beds shall

Balled and Burlapped Plants:

Balled and Burlapped Flants:

After final setting, loosen wrappings of balled and burlapped plants and roll wrappings back from top of ball, leaving ball unbroken. Remove all root ball covering and materials such as rope/twine and wire, and only natural burlap can remain at the

Container Grown Plants:
Container grown plants shall, when delivered, have sufficient root growth to hold earth intact when removed from container. They shall not be root bound. Containers shall be removed to prevent damage to plant or root system according to diagrams (attached). Plant pits for container materials shall be formed flat on the bottom to avoid air pockets at the bottom of root balls.

Minimum diameter (Width) and depth of planting pits for balled and burlapped, and

-Dlameter-Trees: 18" greater than diameter of ball or spread of roots.
-Dlameter-Shrubs: 6" greater than diameter of ball or spread of roots.
-Depth-Trees and Shrubs: 4" greater than depth of ball or roots to provide 4" of topsoil backfill under the root ball. (Large, heavy trees and shrubs shall sit directly on excavated pit bottom to prevent settlement)
-Depth-Vines and Ground Covers: Pits shall be large enough for adequate planting.

Backfilling:
When pit has been excavated as specified in Paragraph IV-C, the pit shall be backfilled with material as specified in Paragraph III. A, B, C, D, and IV. B and shown in the Typical Tree and Shrub diagrams (attached).

Setting Trees and Shrubs.
Unless otherwise specified, all trees and shrubs shall be planted in pits, centered and set on four inches (4") of compacted topsoil to such depths that the finished grade level of the plant after settlement shall be the same as that at which the plant was grown. They shall be planted upright and faced to give the best appearance or relationship to adjacent structures. No burlage shall be pulled out from under the balls. Platforms, wire and surplus binding from top and sides of the balls shall be removed. All broken or frayed roots shall be cut off cleanly. Soil shall be placed and compacted thoroughly avoiding injury and shall be settled by watering. No filling around trunks will be permitted. After the ground settles, additional soil shall be filled in, to the level of the finished grade, allowing for three inches (3") of mulch. Form a shallow saucer around each plant by placing a ridge of soil along the edge of the plant pit.

Settina Palms:

Setting Paims:
All palms shall be planted in sand, thoroughly washed in during planting operations and with a shallow saucer depression left at the soil line forfuture waterings. Saucer areas shall be top-dressed two inches (2") deep with topsoil raked and left in a neat, clean

Pruning - New Plant Material:
Remove dead and broken branches from all plant material. Prune to retain typical growth habit of individual plants with as much height and spread as is practicable. Trees shall not be poled or topped. Remove trimmings from site. Tree pruning shall be accomplished in accordance with standards established by the expected reference for tree pruning. "ANSI A300 Standards for Maintenance of Trees and Woody Plants" as well as per the current UF-IFAS and ISA specifications and details.

Guying Tree:
Tree guying shall be accomplished in accordance with standards established in the most recent edition of Florida Grades 4 Standards for Nursery Plants' and UF-IFA5 and ISA specifications and details. Tree guying to be flat woven rope or twine material, \$\frac{3}{2}\text{ with 900 lb. break strength, color to be green, product to be ArborTle manufactered by Deep Root PartnersLFP, or approved equal. Place untreated wood anchors so that guys are equally spaced and at 45 degree angles to horizon. Keep guys tight until project completion. Stakes to be lodge pole clean lumber free of knots, and of diameters and lengths appropriate to size of plant as required to adequately support the plant. Natural burlap padding to be used around tree trunk for any ties, battens, braces, and no wire or rubber material to be used to not cause harm to the tree.

<u>Mulching:</u>
All trees and shrub beds shall be mulched immediately after planting to a three inch (3") depth. Prevent wind displacement of mulch by thoroughly wetting do

Excess Excavated Soll: Excess excavated soil shall be disposed of by the Contractor at no additional expense to the Owner, at Owner's discretion.

Relocated Material (when applicable):
Existing material shown on the plan to be relocated shall be root-pruned as far ahead of time as necessary to move them safely, and shall be protected and treated as new material, as previously specified. Planting shall be in accord with these specifications.

O. <u>Disposition of Existing Material</u>.

All existing plant material not shown as remaining or relocated shall be removed from the site at no additional cost to the Owner, at Owner's discretion.

A. <u>Soll:</u>
The Landscape Contractor shall submit a unit price per cubic yard for the supply and distribution of planting soll as herein before specified, to be applied at a depth of one inch (I'), to all areas receiving sod. (The use of this one inch (I') of soll shall be at the discretion of the Architect/Landscape Architect after evaluation of the existing

<u>Grades:</u>
It shall be the responsibility of the Landscape Contractor to finish (fine) grade all landscape areas, eliminating all bumps, depressions, sticks, stones and other debris to the satisfaction of the ArchitectLandscape Architect.

- The sod shall be as called for on the landscape plans. Sod shall be of firm tough texture, having a compact growth of grass with good root development, and shall contain no weeds or any other objectionable vegetation. The soil embedded in the sod shall be good earth, free from stones and debris and all sod shall be free from
- D. Before being cut and lifted, the sod shall have been moved at least three times with a lawn mover, with the final moving not more than seven days before the sod is cut. The sod shall be carefully cut into uniform dimensions.
- E. Solid sod shall be laid with closely abutting joints with a tamped or rolled, even surface. It shall be the responsibility of the Contractor to bring the sod edge in a neat, clean manner to the edge of all paving and shrub areas. If, in the opinion of the Architect/Landscape Architect, top-dressing is necessary after rolling, clean sand will be evenly applied over the entire surface and thoroughly washed in.

6. Clean-up:

Any soil, peat or similar material which has been brought onto any paved areas shall be removed promptly keeping these areas clean as the work progresses. John completion of the planting, all excess soil, stones and debris which has not been previously cleaned up shall be removed from the site or disposed of as directed by the Architect/Landscape Architect.

Maintenance:

- Maintenance shall begin immediately after each plant is planted and shall continue until all planting has passed final inspection and acceptance by the Owner. Maintenance shall include watering, needing, cultivating, removal of dead materials, resetting plants to proper grades or upright position and restoration of the planting saucer and any other necessary operations. Proper protection to larm areas and existing plant materials shall be provided and any damage resulting from planting operations shall be repaired promptly.
- B. The Contractor shall deep-water all trees and shrubs for a period of ninety (90) days after planting. In the event an irrigation system is operable, Contractor shall see that adequate water is supplied for that period.

8. Inspection and Acceptance:

A. <u>Inspection:</u> Inspection: Inspection of work to determine completion of contact, exclusive of the possible replacement of plants, will be made by the Owner and/or Landscape Architect at the conclusion of all planting and at the written request of the Contractor.

B. <u>Acceptance:</u>
After inspection, the Contractor will be notified by the Owner of the acceptance of all plant material and workmanship, exclusive of the possible replacement of plants subject to guarantee.

9. Guarantee and Replacement:

A. <u>Suarantee:</u>
The Contractor shall furnish a written guarantee marranting all materials, workmanship and plant materials, for a period specified in the General Conditions of Project Specifications. All plant materials shall be alive and in satisfactory condition and growth for each specific kind of plant at the end of the one-year guarantee period. Where vandalism is agreed by the Architect/Landscape Architect as the cause for replacement, the Contractor shall not be responsible for replacement during the guarantee after final acceptance. See General Conditions of Project Specifications for additional guarantee information.

Replacement:

Replacement:

During the one-year guarantee period, any plant required under this contract that is dead or not in satisfactory condition, as determined by the Architect/Landscape Architect, shall be replaced within two neeks of notification by the Architect/Landscape Architect. The Contractor shall be responsible for the full replacement cost of plant materials.

Material and Operations:
 All replacements shall be plants of the same kind and size as specified in the plant list. They shall be furnished and planted as specified herein.

10. Care and Maintenance Schedule:

- A. The Contractor shall furnish the Owner's Maintenance staff with a written and the contractor shall turnish the Univer's Maintenance staff with a written and detailed description for the care and maintenance of all plant materials and irrigation systems at the time of final inspection. Contractor will also provide a one year Landscape Maintenance Contract, to take affect affect after Substantial Completion of the project. It will be in the Owner's discretion to accept or reject this contract.
- B. Landscaping shall be maintained in a good condition so as to present a healthy neat an orderly appearance at least equal to the original intaliation and shall be kept free from refuse and debris.

Permits and Regulations:

A. The Contractor shall give all notices and comply with all laws, ordinances, rules and regulations bearing on the conduct of this work as drawn and specified.

12. Protection of Work and Property:

- A. The Contractor shall continuously maintain adequate protection of all his work from damage and theft and shall protect the Owner's property from injury and loss arising in connection with this contract, making good any such loss or injury or damage except where caused by Owner or his agents. He shall adequately provide and maintain passageways, guard fences, lights and other protections required by public authority according to State, Federal and local ordinances.
- The Contractor shall provide protection for existing trees and other plant material as designated by drawings, by Owner's representative or by local authorities. Such protection shall consist of fencing or such devices as will prevent harm to material from excavation, breakage, chemical or other types
- C. A competent superintendent, foreman or workman capable of reading drawings and acting on behalf of the Contractor shall be kept on the work during its

13. Changes In The Work:

- A. The Contractor shall conduct a soil survey of the site to determine the need for any additives to overcome severe conditions not met by normal planting soil requirements. A report of any problems shall be submitted to the Owner and the Architect/Landscape Architect for approval prior to installation, along with a cost break-down of additional services needed.
- B. The Contractor shall advise the Owner and Landscape Architect of any specia site conditions (high water table, light or soil conditions, etc.) that might require change of plant material or adjustment to finish elevation shown. The Owner will approve any changes thus determined.

14. Landscape Architect:

A. The Landscape Architect is the author of the design and agents for its execution. When his services are used by the Onner for supervision, he shall act impartially between the Onner and Contractor and shall have authority to reject all work and materials which do not conform to the contract. All decisions of the Landscape Architect shall be final.

The Contractor shall remove from the site all materials considered not up to specifications by the Landscape Architect and replace with suitable materials.

15. Obstructions:

The Contractor shall acquaint himself with the existence and location of all surface and subsurface structures, utilities and installations before commencing any work, and shall avoid any disturbance or damage to them throughout the course of the mork. Repairs to any utilities, subsurface structures and installations and surface obstructions damaged by the Contractor shall be at the Contractor's ont time and expense.

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OCT 18 2024

HIGHLAND BEACH BUILDING DEPARTMENT

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SPECIFICATIONS M BEACH, 国 R **PLANTING** S HIGHL

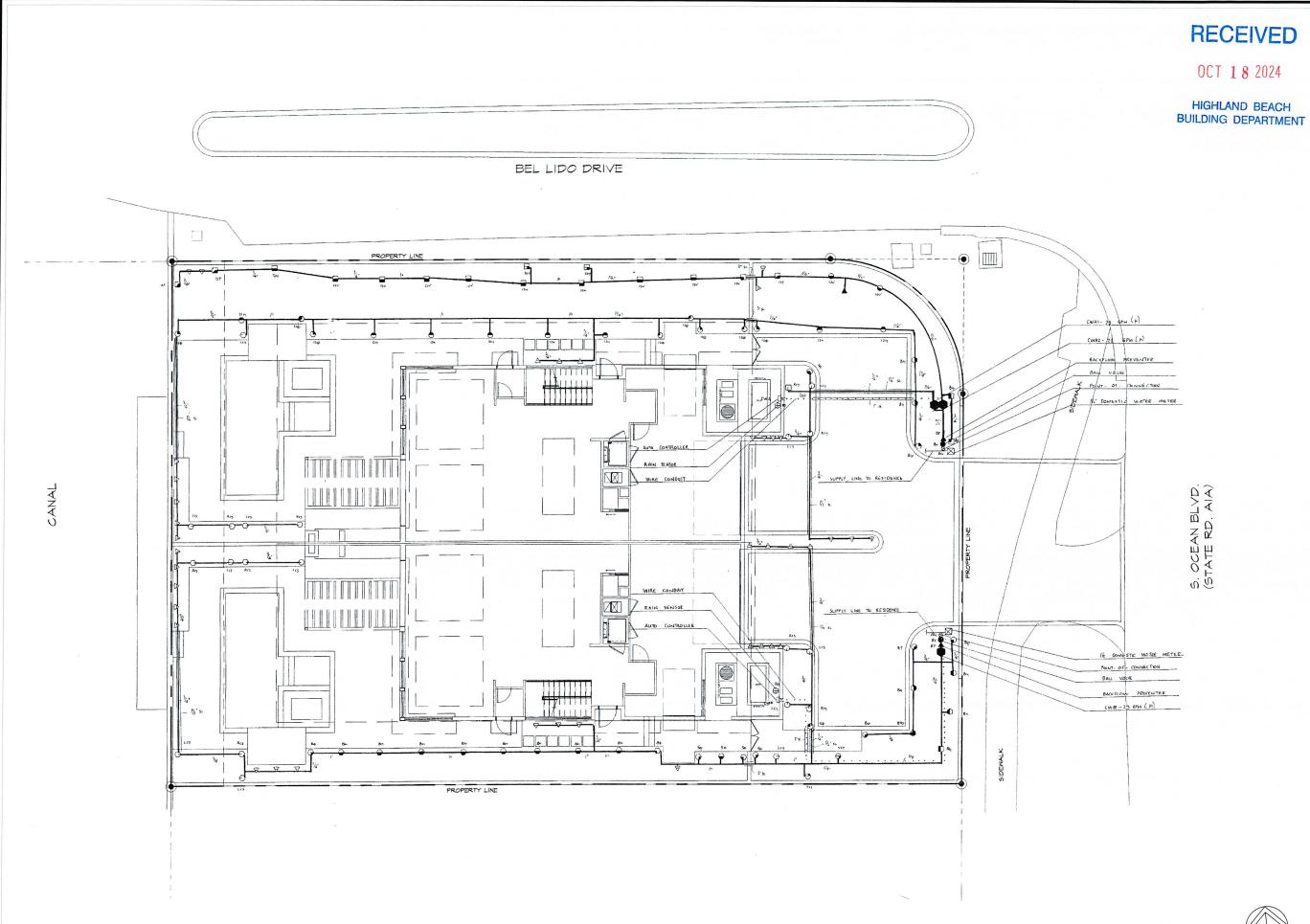
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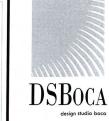
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4306 S OCEAN BOULEV HIGHLAND BEACH, FL IRRIGATION PLAN

	REVISIONS:
7	05-28-2024 Revision
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FEBRUARY 2, 2024
DATE

M.S.
DRAWN BY:

M.J. APPROVED BY:

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NOTE: ABOVE QUANTITIES ARE FOR COMPARISON ONLY.

CONTRACTOR SHALL VERIFY PRIOR TO SUBMITTING BID.

ZONE SUMMARY CHART

CWA							
STA	VALVE	SPRINKLER			WATER	RUN	WEEKLY
NO.		TYPE	SIZE	DEN	AND	*TIME	USAGE
1	CWAL	SPRAY	1*	25	GPM	40 MIN/WK	1000 GAL/WH
5	CWA2	SPRAY	1"	55	GPM	40 MIN/WK	880 GAL/WH
3-4	SPARE						
						80 MIN/WK	1,880 GAL/W
CWB							
STA	VALVE	SPRINKLER	VALV	E	WATER	RUN	WEEKLY
ND.		TYPE	SIZE	DEN	MAND	*TIME	USAGE
1	CWB1	SPRAY	1"	22	GPM	40 MIN/WK	880 GAL/WH
2-4	SPARE						

* APPROXIMATE RUN TIME TO APPLY I. IN/WK

IRRIGATION NOTES & SPECIFICATIONS

AUTOMATIC IRRIGATION SYSTEM WATER DEMAND / ZONE WATER SOURCE PRESSURE REQUIRED

REFER TO PLAN 1 1/2" DOMESTIC WATER METER 50 PSI

GENERAL

IRRIGATION SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES, CONTRACT DRAWINGS, CONTRACT SECIFICATIONS, AND APPENDIX 'F' OF THE SOUTH FLORIDA BUILDING CODE.

IRRIGATION DESIGN BASED ON 'LANDSCAPE PLAN' DATED FEBRUARY 2, 2024. CONTRACTOR SHALL REFER TO THIS PLAN TO CODREDNATE SPRINKLER LOCATIONS AND PIPE ROUTING WITH NEW AND EXISTING PLANT LOCATION

THIS IRRIGATION PLAN SHALL BE USED AS A GUIDE ONLY. THIS IRRIGATION SHALL BE INSTALLED TO MATCH ON SITE CONDITIONS AND TO OVERCOME THE INHEPOTENT INACCURACIES THAT RESULT WHEN DESIGNING FROM BASE PLANS SCALED AT 1' = 8'.

THIS SITE SHALL BE IRRIGATED WITH 2 INDEPENDENT SYSTEMS. THE WATER SOURCE FOR EACH SYSTEM SHALL BE DOMESTIC WATER FOR EACH UNIT. THE LOCATION OF THE POINT-OF-CONNECTION TO THE SUPPLY FOR EACH UNIT SHALL BE SELECTED DN SITE.

BACKFLOW PREVENTION SHALL BE INSTALLED TO MEET LOCAL CODE REQUIREMENTS FOR CROSS CONNECTION CONTROL. A PRESSURE VACUUM BREAKER HAS BEEN SPECIFIED PER SYSTEM.

IRRIGATION HAS BEEN DESIGNED AS A TYPICAL BLOCK VALVE TYPE USING RAINBIRD SPRAY SPRINKLERS, IN-LINE VALVES, AND AN ESP CONTROL SYSTEM, RAIN SENSORS SHALL BE INSTALLED TO CONSERVE VATER. CONTRACTOR IS ADVISED TO STUDY THE PLANS FOR ADDITIONAL INFORMATION AND TO VISIT THE SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS.

TO ENSURE PROPER OPERATION, PRESSURE REQUIRED, SOURCE SIZE, VALVE SIZES, ZONE CAPACITIES, SPRINKLER SPACING, PIPE AND WIPE SIZES, INSTALLATION NOTES AND DETAILS, AND SPECIFICATIONS SHALL BE FOLLOWED AS SHOWN.

PIPING

PIPE ROUTING IS SCHEMATIC ONLY AND SHALL BE ADJUSTED FOR ON SITE CONDITIONS. PIPE SHALL BE INSTALLED TO MINIMIZE DAMAGED TO THE ROOT SYSTEMS OF EXISTING TREES.

PIPE SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND PIPE MANUFACTURER'S INSTRUCTIONS.

PIPE ROUTED UNDER HARDSCAPED AREAS SHALL BE SLEEVED IN SCH 40 PVC. EACH SLEEVE SHALL (1) BE BURIED TO A HINNUM BEPTH DF 18°, (2) BE TWD PIPE SIZES LARGER THAN THE CARRIER PIPE, AND (3) EXTEND 3° BEYOND HARDSCAPED AREA. CONTRACTOR SHALL VERIFY THE SIZE, DEPTH AND LICATION DF ALL EXISTING SLEEVES.

PIPE INSTALLED ABOVE GRADE FOR EACH BACKFLOW PREVENTER SHALL BE SCH 40 GALVANIZED STEEL ALL OTHER PIPE AND FITTINGS SHALL BE TYPE 1120 PVC. MAIN LINE AND FITTINGS SHALL BE STEED 1120 PVC. MAIN LINE AND FITTINGS SHALL BE SCH 40. LATERALS SIZED I AND LAPGER SHALL BE SDR 26, CLASS 160. LATERALS SIZED 3/4" SHALL BE SDR 21. CLASS 200.

PIPE SIZED TO LIMIT FLOW VELOCITIES TO 5 FEET/SECOND AND TO LIMIT FRICTION LOSS IN THE PIPING NETWORK.

PIPE SHALL BE INSTALLED AT SUFFICIENT DEPTH BELOW GROUND TO PROTECT IT FROM HAZARD SUCH AS VEHICULAR TRAFFIC OR ROUTING OCCURENCES WHICH DCCUR IN THE NORMAL USE AND MAINTENANCE OF THE PROPERTY. DEPTHS OF COVER SHALL MEET OR EXCED SCS CODE 430-0D. REFER TO THE APPLICABLE DETAIL FOR ADDITIONAL INFORMATION.

BACKFILL SHALL BE OF SUITABLE MATERIAL, FREE OF ROCKS, SIDNES, AND OTHER DEBRIS THAT WOULD DAMAGE IRRIGATION SYSTEM COMPONENTS.

BACH BACKFLOW PREVENTER SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND SHALL BE LOCATED TO BE CONCEALED FROM VIEW.

A BALL VALVE SHALL BE INSTALLED IN EACH SYSTEM FOR ISDLATION. EACH VALVE SHALL BE TO LINE SIZE AND INSTALLED IN A VALVE BOX. PORDUS MATERIAL SHALL BE INSTALLED FOR BOX TO PROMOTE DRAINAGE.

SPRINKLER

SPRINKLER LOCATIONS ARE SCHEMATIC DNLY AND SHALL BE ADJUSTED FOR LANDSCAPING, FENCES, SITE LIGHTING, PREVAILING VIND, MOUNDING, FOR TO REVUER PEOPLE OVERTHEOUS A. PRIME OBSJECTIVE SHALL BE TO ELIMINATE OVERTHROW ONTO PAVEMENT, SIDEWALKS, AND THE RESIDENCE.

SPRINKLERS SHALL BE RAINBIRD 1800 SERIES. SIX INCH POP-UP TYPE SHALL BE INSTALLED IN AREAS LANDSCAPED WITH SOD AND MULCH, TVELVE INCH POP UP TYPE SHALL BE INSTALLED IN AREAS LANDSCAPED WITH GROUNDEDVER AND LIDW SHRUBS. SHRUB HEADS SHALL BE INSTALLED IN AREAS LANDSCAPED WITH TALL SHRUBS, AND BUBBLERS SHALL BE INSTALLED IN NARROW LANDSCAPED AREAS.

POP-UP TYPE LOCATED IN SOD, MULCH, AND GROUND COVERS SHALL BE INSTALLED ON FLEXIBLE SVING JOINTS CONSISTING OF THICKVALLED POLY PIPE 1/2" AND INSERT ELBOWS.

PDP-UP TYPE LOCATED IN SHRUBS SHALL BE INSTALLED ON 1/2" SCH 40 PVC RISERS TO A HEIGHT SO SPRINKLERS ARE CONCEALED FROM VIEW EXCEPT DURING USE.

SHRUB TYPE AND BUBBLERS SHALL BE INSTALLED ON 1/2" SCH 40 PVC RISERS. SHRUB HEADS SHALL BE INSTALLED A STANDARD HEIGHT OF 6" ABOVE PLANTS AND SHALL BE INSTALLED WITHIN PLANTS TO BE CONCEALED FROM VIEW. BUBBLERS SHALL BE INSTALLED AT THE BASE OF TALL SHRUBS FOR LOW LEVEL WATERING. RISERS SHALL BE PAINTED FLAT BLACK TO BE LESS VISIBLE.

EACH SPRAY HEAD SHALL BE EQUIPPED VITH THE APPROPRIATE SPRAY NOZZLE.

ADJUSTMENT FEATURES OF SPRINKLERS SPECIFIED SHALL BE UTILIZED TO

INSURE PROPRE COVERAGE WITH MINIMAL UNDESTRABLE OVERTHEOW. LOW

ANGLE, FLAT SPRAY, AND ADJUSTABLE ARC NOZZLES SHALL BE USED TO

MINIMIZE DVETHROU.

SPRINKLESS LOCATED ADJACENT TO HARBOSAPED AREAS SHALL BE INSTALLED AWAY FROM HARBOSAPED AREAS TO MINIMIZE OVERTHROW AND THE CHANGE OF A CH

CONTROL SYSTEM

A RAIN BIRD ESP SERIES ELECTRIC CONTROL SYSTEM SHALL BE INSTALLED.
DNE 4 STATION CONTROLLER SHALL ACTIVATE 2 SOLENDID VALVES IN SYSTEM
"A" AND DNE 4 STATION CONTROLLER SHALL ACTIVATE 1 SOLENDID VALVE IN
SYSTEM "B". RAIN SENSORS SHALL BE INSTALLED TID CONSERVE WATER.

CONTROLLERS SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODE: AND MANUFACTURER'S INSTRUCTIONS. PROPER GROUNDING EQUIPMENT SHALL BE PROVIDED.

CONTROLLER LOCATIONS SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE. A 120 VAC ELECTRIC SOURCE IS REQUIRED PER LOCATION.

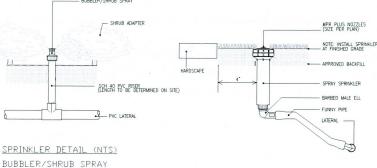
CONTROL LINES FROM EACH AUTOMATIC CONTROLLER TO IN-LINE AUTOMATIC VALVES SHALL BE 814 AVG THAN TYPE WHICH SHALL BE:
(3) INSTALLED IN ACCORDANCE WITH LOCAL CODES; (2) INSTALLED IN VIRE CONDUIT, (3) BURIED TO A MINIMUM DEPTH OF 15'. SPLICES SHALL BE MADE WATERPRODIC USING APPROVED WETHODS.

AUTOMATIC VALVE LOCATIONS ARE SCHEMATIC ONLY AND SHALL BE ADJUSTED FOR ON SITE CONDITIONS. EACH VALVE SHALL BE INSTALLED IN A VALVE BOX. A MINIMUM OF DNE CUBIC FOOT OF GRAVEL SHALL BE PROVIDED PER BOX TO PROMOTE DRAINAGE.

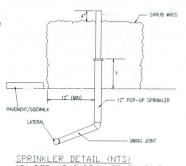
VATER CONSERVATION EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. THE RAIN SENSOR SHALL BE PLACED ON A STATIONARY STRUCTURE, MIMIMUM OF 5' CLEARANCE FROM OTHER OUTDION EQUIPMENT, FREE AND CLEAR OF ANY TREE CAMPY OR OTHER OVERHEAD DISTRUCTION, AND ABOVE THE HEIGHT OF SPRINKLER COVERAGE.

TIMING AND PRECIPITATION

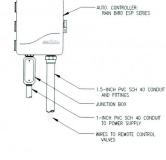
TIMING OF EACH STATION SHALL BE SET IN THE FIELD TO MATCH LOCAL REQUIREMENTS. REFER TO ZONE SUMMARY CHART FOR RECOMMENDED RUNTIMES TO APPLY 10. INCHES/WEEK.



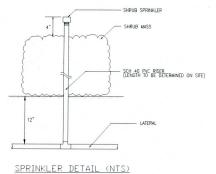
SPRINKLER DETAIL (NTS)
POP-UP SPRAY ON POLY
PIPE SWING JOINT LOCATED
IN SOD OR MUICH



SPRINKLER DETAIL (NTS)
12" POP-UP INSTALLED ON PVC
SWING JOINT LOCATED IN PLANT
MASS MAINTAINED TO A MAXIMUM
HEIGHT OF 18".



ESP AUTOMATIC CONTROLLER

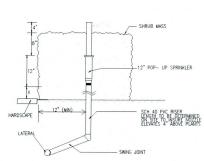


SPRINKLER DETAIL (NTS)
SHRUB SPRAY ON RISER
AT INTERIOR LOCATION IN
PLANT MASS.

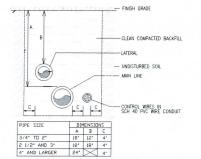
COMPACTED ROAD ROCK

CLEAN BEDDING MATERIAL

SCH 40 PVC TWO PIPE SIZES LARGER THAN CARRIER PIPE



SPRINKLER DETAIL (NTS)
12" POP-UP ON PVC SWING
JOINT WITH RISER LOCATED IN
PLANT MASS MAINTAINED TO A
MINIMUM HEIGHT OF 24".



12" POP-UP SPRAY ON POLY PIPE SWING
JOINT LOCATED IN PLANTS MAINTAINED TO

INSTALLED AT THE BASE OF PLANTS FOR LOW LEVEL

MPR PLUS NOZZLES

 NOTE: INSTALL SPRINKLEF AT FINISHED GRADE

NOTE: CONTRACTOR MA INSTALL PIPE TO SIDE

BARBED MALE ELL

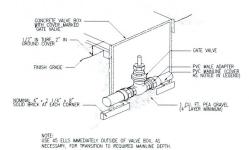
- FUNNY PIPE

WATERING

TRENCHING DETAIL (NTS)
NON-TRAFFIC AREAS

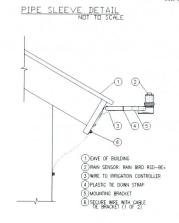
SPRINKLER DETAIL (NTS)

A MAXIMUM HEIGHT DF 8"

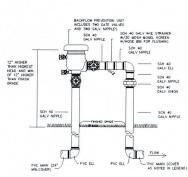


GATE VALVE DETAIL

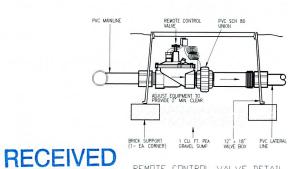
NOT TO SCALE



RAIN SENSOR RSD-BEX
NOT TO SCALE



PRESSURE VACUUM BREAKER



REMOTE CONTROL VALVE DETAIL

NOT TO SCALE

OCT 18 2024

HIGHLAND BEACH
BUILDING DEPARTMENT



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DSBoca

landscape architects

and planners

LC - 0000396

Boca Raton, Florida 33431

Ph: 561.955.8623

Fax: 561.362.4749

REVISIONS:

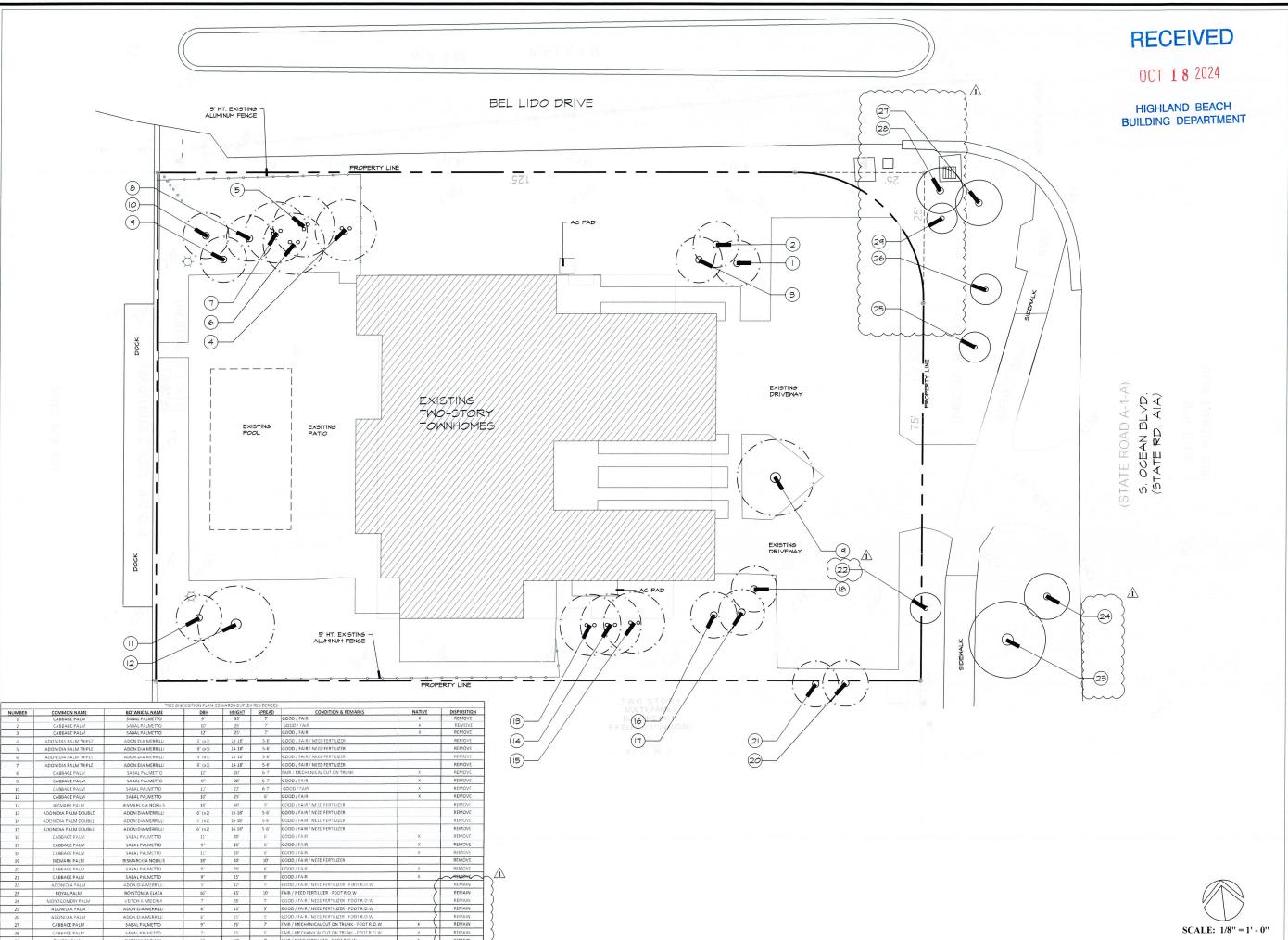
08-28-2024 Revision

FEBRUARY 2, 2024
DATE

M.S.
DRAWN BY:
M.J.
APPROVED BY:

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LC - 0000396 2300 Corporate Blvd. NW. Suite 214 Boca Raton, Florida 33431 Ph: 561.955.8623

landscape architects and planners

Fax: 561.362.4749



BOULEV TREE DISPOSITION PLAN OCEAN HIGHLAND BEACH, FL 4306

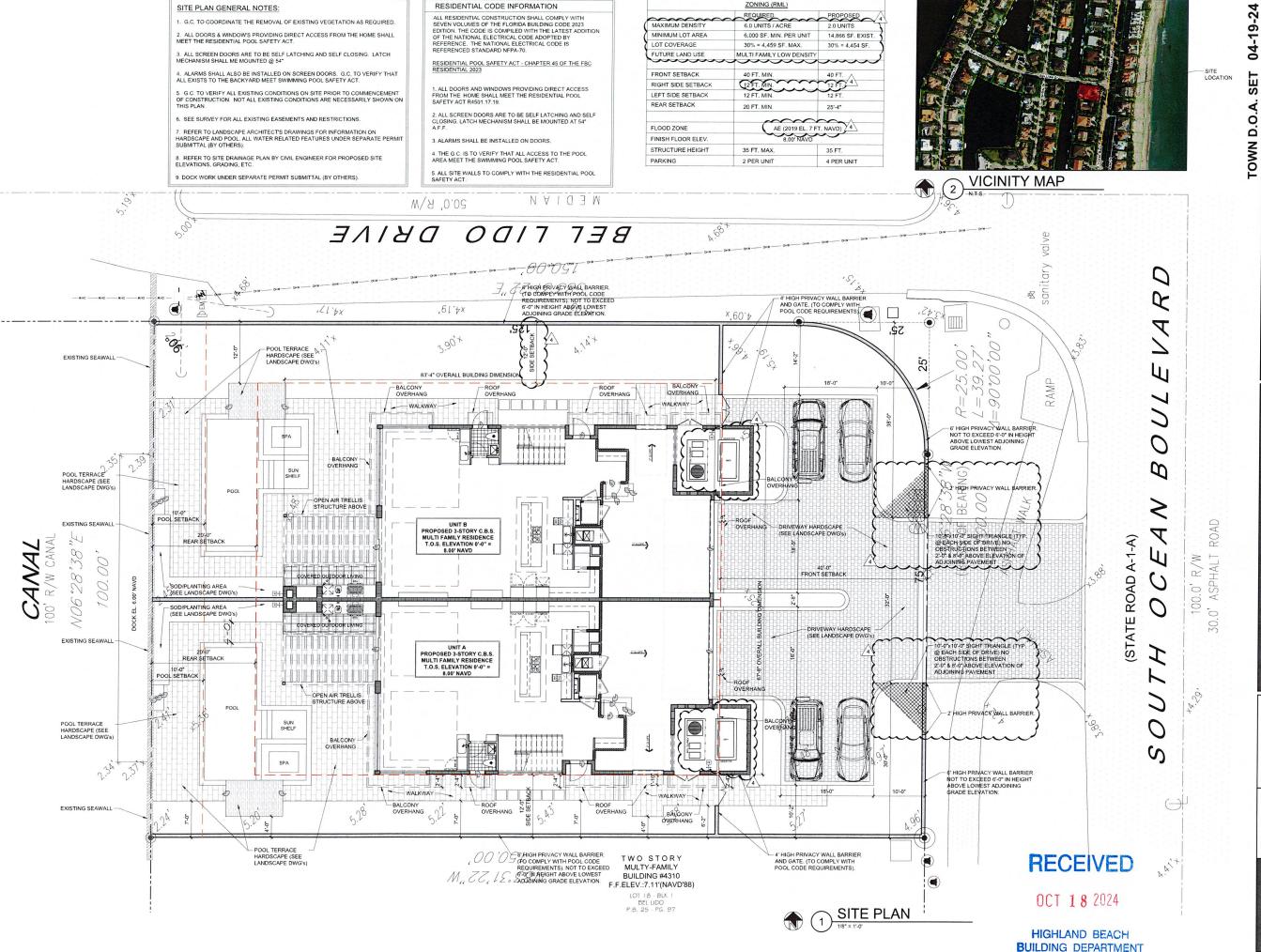
REVISIONS:
05-28-2024 Revision

FEBRUARY 2, 2024

M.S. DRAWN BY: M.J. APPROVED BY:

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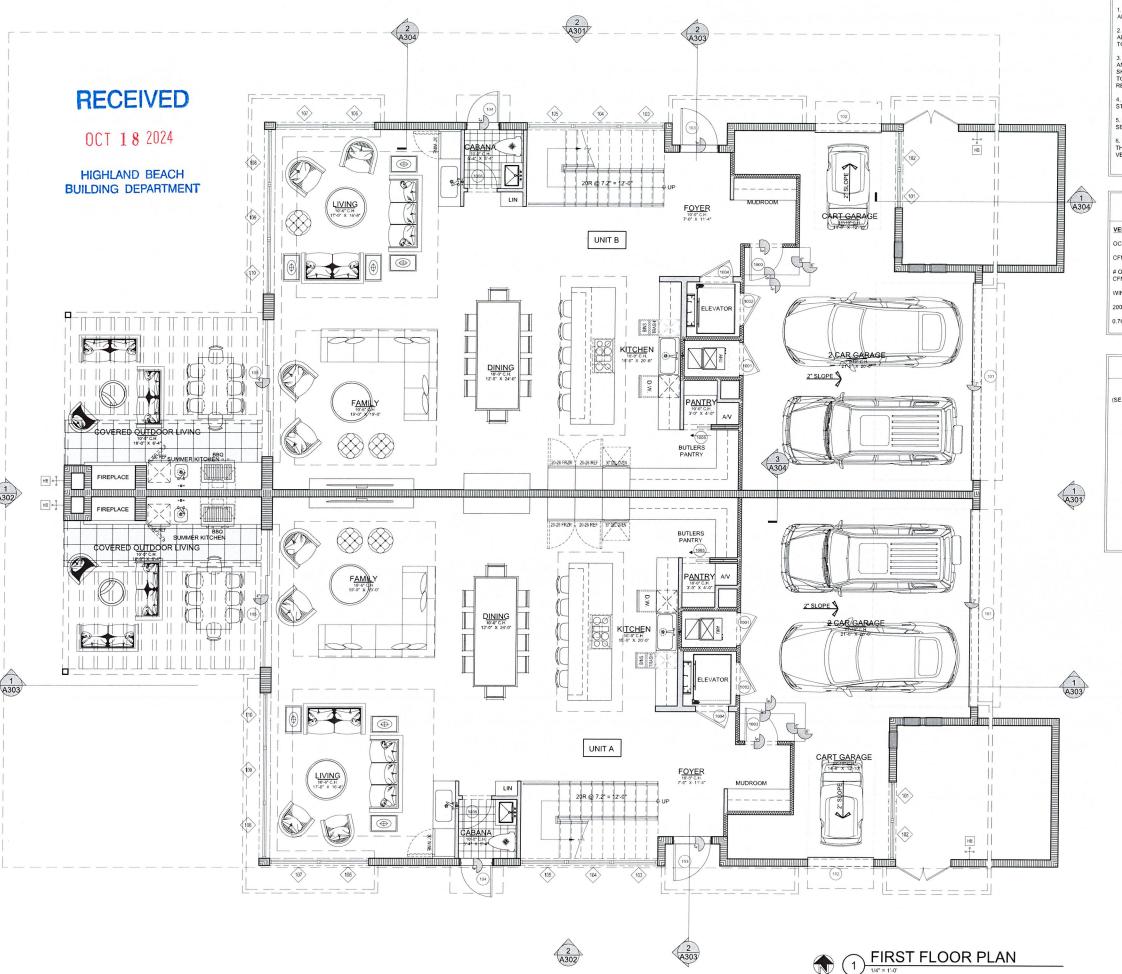
o. TOWN

MULTI-FAMILY RESIDENCE 4306 S. OCEAN BLVD., HIGHLAND BEACH, FLORIDA

H L OL S ANDA

Job No. 2310065 RANDALL E. STOFFT AR0011105 FL-0011105 FIRM-AA003379





GARAGE NOTES:

1. THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ATTIC AREA BY NOT LESS THAN 1/2" GYP. BOARD APPLIED TO THE GARAGE SIDE.

2. THE GARAGE SHALL BE SEPARATED FROM ALL HABITABLE ROOMS ABOVE THE GARAGE BY NOT LESS THAN 5/8" TYPE "X" GYP, BOARD APPLIED TO THE GARAGE SIDE.

3. DUCT WORK WHICH PENETRATES THE WALLS BETWEEN THE GARAGE AND THE RESIDENCE SHALL BE CONSTRUCTED OF A MIN. OF NO. 26 GAUGE SHEET METAL OR OTHER APPROVED MATERIAL. ALL OTHER PENETRATIONS TO BE PROTECTED AROUND THE OPENING BY AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME AND PRODUCTS OF COMBUSTION.

4. INTERIOR SIDE OF GARAGE EXTERIOR CMU WALLS TO BE SKIM COAT STUCCO. ALL OTHER WALLS TO BE PAINTED GYP, BOARD AS NOTED ABOVE

6. GARAGE TO BE EITHER MECHANICALLY VENTILATED OR VENTILATED W/ THE USE OF OPENINGS IN THE CMU W/RODENT SCREENS. SEE VENTILATION CALCULATIONS THIS SHEET.

2-CAR GARAGE VENTILATION CALCULATIONS PER 2023 FBC-MECHANICAL

VENTILATION PER SECTION 403.3, TABLE 403.3.1.1:

OCCUPANCY: 2-CAR GARAGE (566 S.F.)

CFM/ CAR: 100 CFM

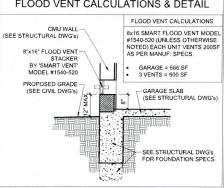
OF CARS: 2 CFM REQUIRED: 2 x 100 = 200 CFM

WIND @ 3 MPH = 264 FT/MIN

200 CFM/ 264 FT/MIN = 0.76 S.F. VENTILATION REQ'D

0.76 S.F. x 144 SQ. IN. = 109.09 SQ. IN. VENTILATION REQ'D

FLOOD VENT CALCULATIONS & DETAIL



UNIT A / B - A CALCULA	
A/C - 1ST FLOOR	1488 SI
A/C - 2ND FLOOR	1956 SI
A/C - 3RD FLOOR	1773 SF
	5217 SF

UNIT A / B - NON A/C	AREA
CALCULATION	1
2 CAR GARAGE	619 SF
COVERED OUTDOOR LIVING	120 SF
LAKE TERRACE	194 SF
OCEAN TERRACE	60 SF
UPPER LAKE TERRACE	123 SF
UPPER OCEAN TERRACE	250 SF
	1366 SF

UNIT A / B- TOTAL /	AREA
CALCULATION	1
2 CAR GARAGE	619
A/C - 1ST FLOOR	1488
A/C - 2ND FLOOR	1956
A/C - 3RD FLOOR	1773
COVERED OUTDOOR LIVING	120
LAKE TERRACE	194 5
OCEAN TERRACE	60 5
UPPER LAKE TERRACE	123 3
UPPER OCEAN TERRACE	250 \$
	6583 5

UNIT A / B - LOT COV	ERAG	Ē
AREA CALCULAT	ION	
2 CAR GARAGE	619	3
A/C - 1ST FLOOR	1488	,
COVERED OUTDOOR LIVING	120	5

LOT SIZE: 14,866 S.F. LOT COVERAGE: 30% MAX (4,459 S.F.) PROPOSED: 30% (UNIT A + B = 4,454 S.F.)

REVISIONS BY DATE -19 04 SET

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TOWN

MULTI-FAMILY RESIDENCE 4306 S. OCEAN BLVD., HIGHLAND BEACH, FLORIDA

TOFFT

Job No. 2310065 FL-0011105 FIRM-AA003379

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HIGHLAND BEACH BUILDING DEPARTMENT

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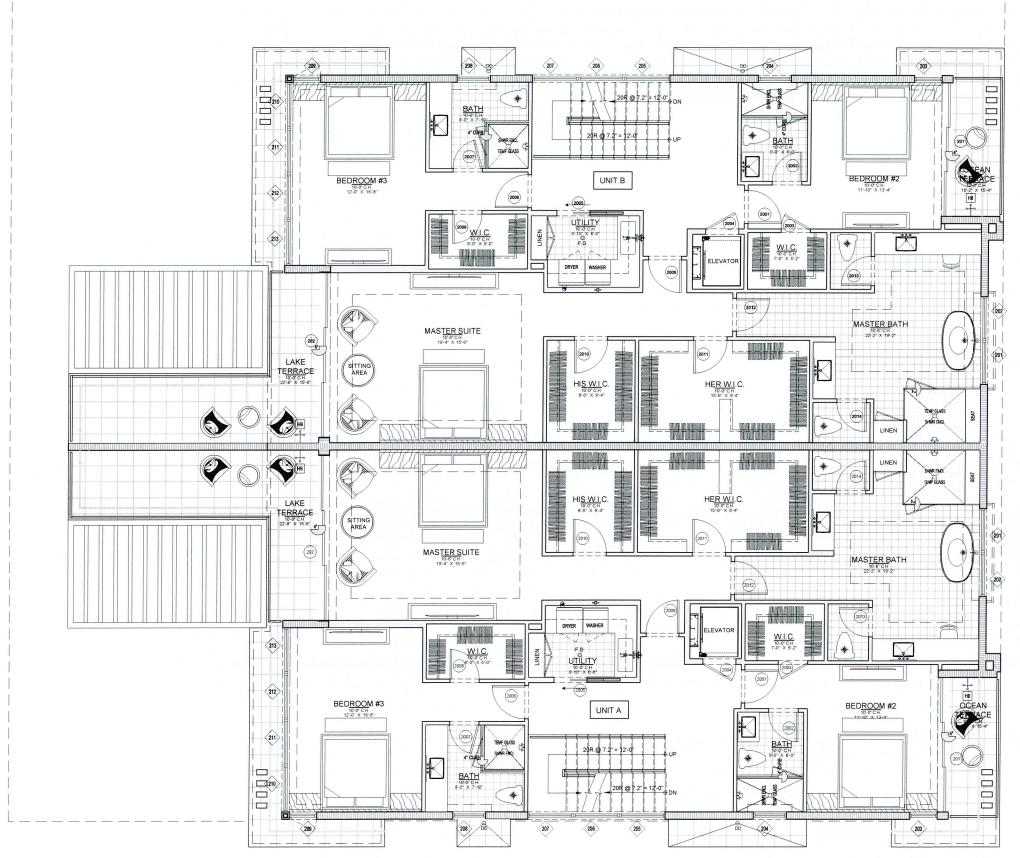
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MULTI-FAMILY RESIDENCE 4306 S. OCEAN BLVD., HIGHLAND BEACH, FLORIDA

STOFFT ARCHITECTS ARCHITECTS







OCT 18 2024

HIGHLAND BEACH BUILDING DEPARTMENT MUL'TI-FAMILY RESIDENCE 4306 S. OCEAN BLVD., HIGHLAND BEACH, FLORIDA

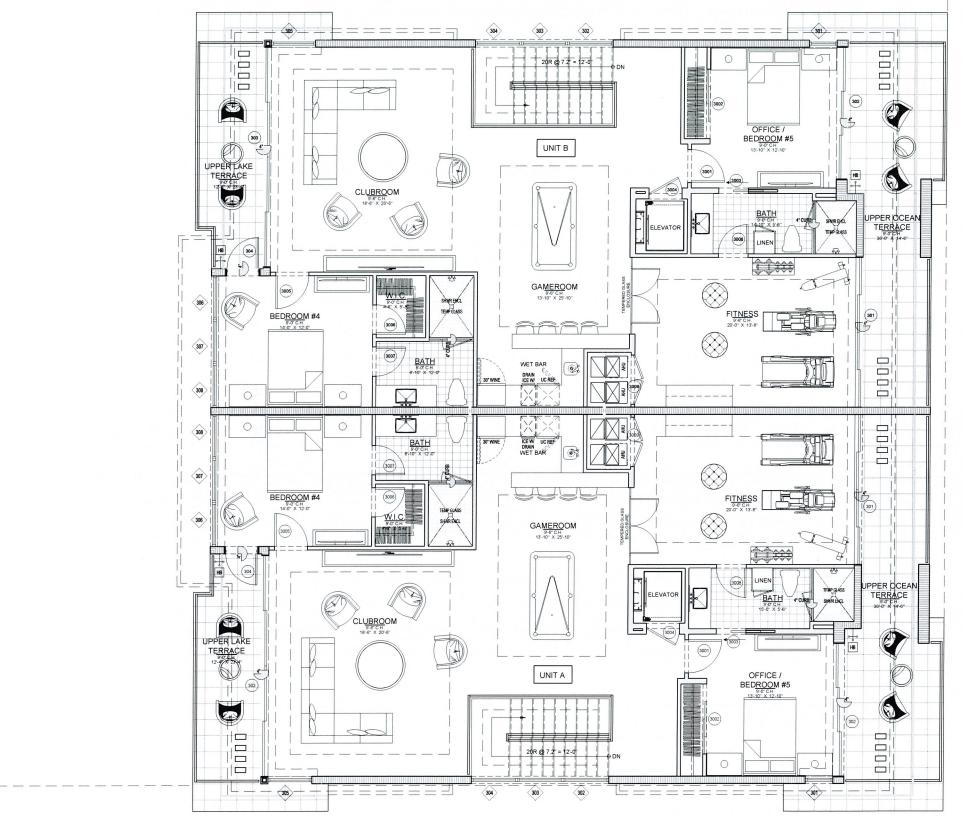
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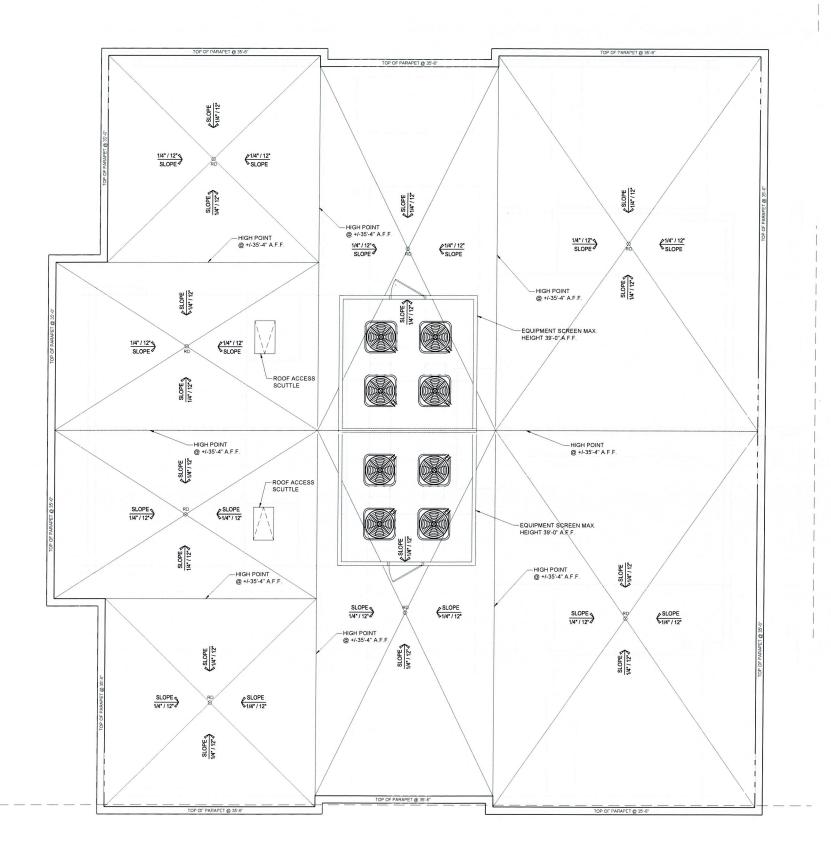
MIN RANDALL STOFFT ARCHITECTS
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TYPICAL ROOF NOTES

1. THIS ROOF PLAN IS FOR GRAPHIC INFORMATION ONLY (I.E. RIDGE LINES, TIE BEAM HEIGHTS, OVERALL DIMENSIONS, ETC...)

2. G.C. SHALL CONFIRM ALL STRUCTURAL COLUMNS AND BEAM SIZE, LOCATION AND REINFORCEMENT WITH STRUCTURAL ENGINEER'S DRAWINGS PRIOR TO CONSTRUCTION.

3. G.C. TO VERIFY POSITIVE SLOPE AT FINISHED FLOOR TO ENSURE PROPER DRAINAGE AT ALL TERRACES, COVERED ENTRY, OUTDOOR LIVING SPACES, BALCONY'S AND GARAGE

4. G.C. TO PROVIDE SUCRASEAL INSULATION AT THE UNDERSIDE OF ALL ROOF SLABS INCLUDING GARAGES, TERRACES AND BALCONIES IF APPLICABLE.

5. REFER TO STRUCTURAL DRAWINGS FOR EXACT LOCATION OF COLUMNS AND ADDITIONAL INFORMATION.

6. REFER TO THE REFLECTED CEILING PLAN FOR ALL HEIGHTS, DIMENSIONS AND CEILING DETAILS.

7. G.C. TO COORDINATE ARCHITECTURAL DRAWINGS WITH INTERIOR DESIGN DRAWINGS FOR EXACT DIMENSION AND CEILING DESIGN.

SEE TYPICAL WALL SECTIONS FOR TYPICAL ROOF CONSTRUCTION

LOW SLOPE ROOF SPECIFICATIONS

ALL LOW SLOPE ROOF DECKS ARE TO HAVE ADHERED PVC ROOFING MEMBRANE SYSTEM (60 MIL. MIN.), ISO INSULATION BOARD TO PROVIDE POSITIVE DRAINAGE TO ROOF DRAINS WITH A MIN. 14" PER FOOT SLOPE. ROOFING MEMBRANE INSTALLED PER MANUFACTURER'S SPECIFICATIONS WITH A 20 YEAR WARRANTY.

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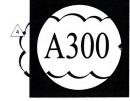
HIGHLAND BEACH
BUILDING DEPARTMENT

REAR RENDERING (WEST)

MULTI-FAMILY RESIDENCE 4306 S. OCEAN BLVD., HIGHLAND BEACH, FLORIDA

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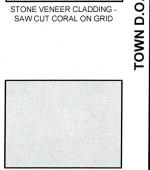
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SET

MULTI-FAMILY RESIDENCE 4306 S. OCEAN BLVD., HIGHLAND BEACH, FLORIDA

STOFFT

STONE VENEER CLADDING -SAW CUT CORAL ON GRID



SMOOTH STUCCO FINISH SW ZIRCON 7667



WOOD CLADDING / CEILING SOFFITS / DECORATIVE FINS CLEAR CEDAR



DOORS AND WINDOWS FRAMES - DARK GRAY



SITE WALLS -OOLITE STONE CLADDING



HARDSCAPE AFAMIA WHITE STONE







