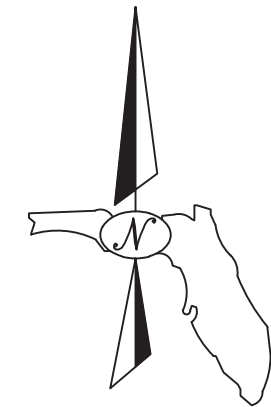
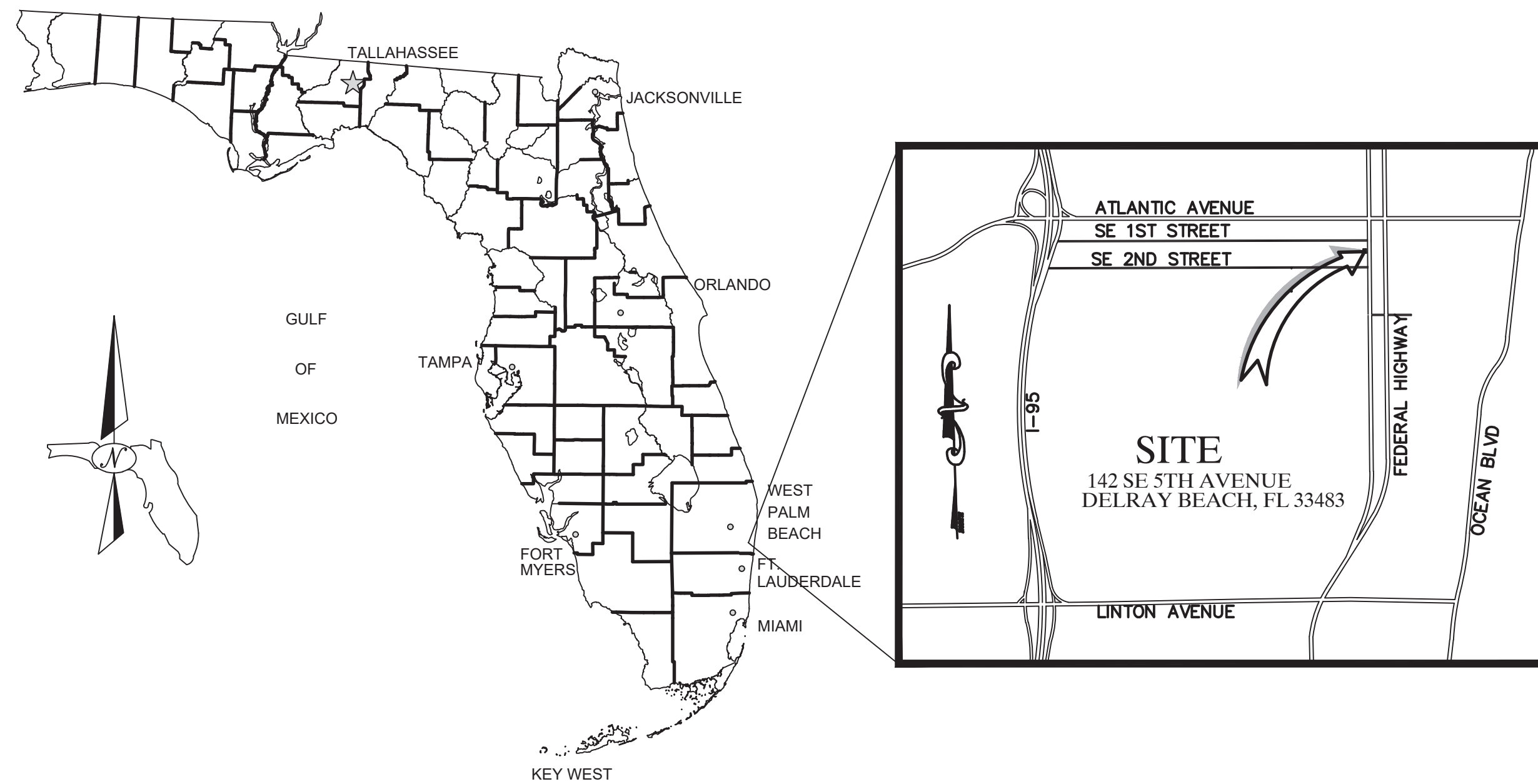


FIFTH AVENUE TOWNHOMES

142 SE 5TH AVENUE
 DELRAY BEACH, FLORIDA 33483

PROPOSED TOWNHOMES

CIVIL SITE PLAN PACKAGE



SHEET

- CS
- PP-1
- PD-1
- PD-1A
- PD-2
- PD-2A
- PD-3
- PD-4 to PD-6
- WS-1
- WS-2, WS-3
- WS-4

DESCRIPTION

- Cover Sheet
- Pollution Prevention Plan
- General Notes Plan
- Demolition Plan
- Paving & Grading Plan
- Drainage Plan
- Pavement, Marking & Signage Plan
- Paving & Grading & Drainage Details
- Water Distribution, Sanitary Sewer and Utility Plan
- Water Distribution, & Sanitary Sewer Details
- Composite Utility Plan

REV.	PER	CITY	COMMENTS	DATE	BY
09/05/24	MVK				
08/29/24	JRH				
07/18/24	JRH				

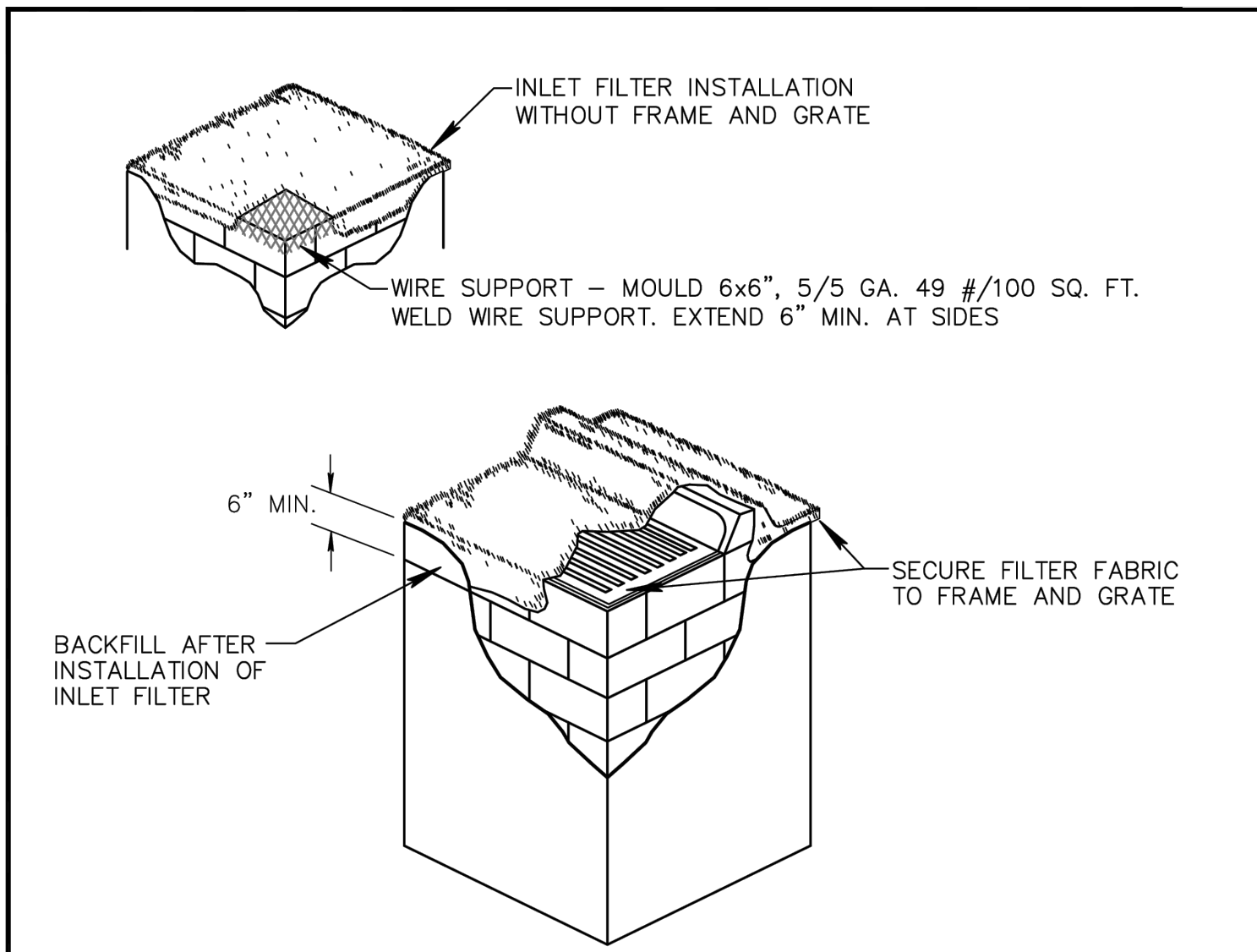
CAULFIELD & WHEELER, INC.
 CIVIL ENGINEERING & SURVEYING
 LANDSCAPE ARCHITECTURE - SUITE 100
 7900 GLADES ROAD - SUITE 100
 BOCA RATON, FLORIDA 33434
 PHONE (561)-392-1991 / FAX (561)-750-1452

**FIFTH AVENUE TOWNHOMES
 PROPOSED TOWNHOMES
 COVER SHEET**
 142 SE 5TH AVE, DELRAY BEACH, FL 33483

DATE	10/18/23
DRAWN BY	JJB
F.B./ PG.	----
SCALE	NTS

MATTHEW V. KAHN
 PROFESSIONAL ENGINEER
 LICENSE NO. 82227
 STATE OF FLORIDA
 - FOR THE FIRM -
 DATE

JOB #	10577
SHT. NO.	CS
OF 14 SHEETS	



NOT TO SCALE

NOTES:

1. CONTRACTOR IS TO CLEAN INLET FILTER AFTER EVERY STORM.
2. CONTRACTOR TO REMOVE FABRIC JUST PRIOR TO PAVING.

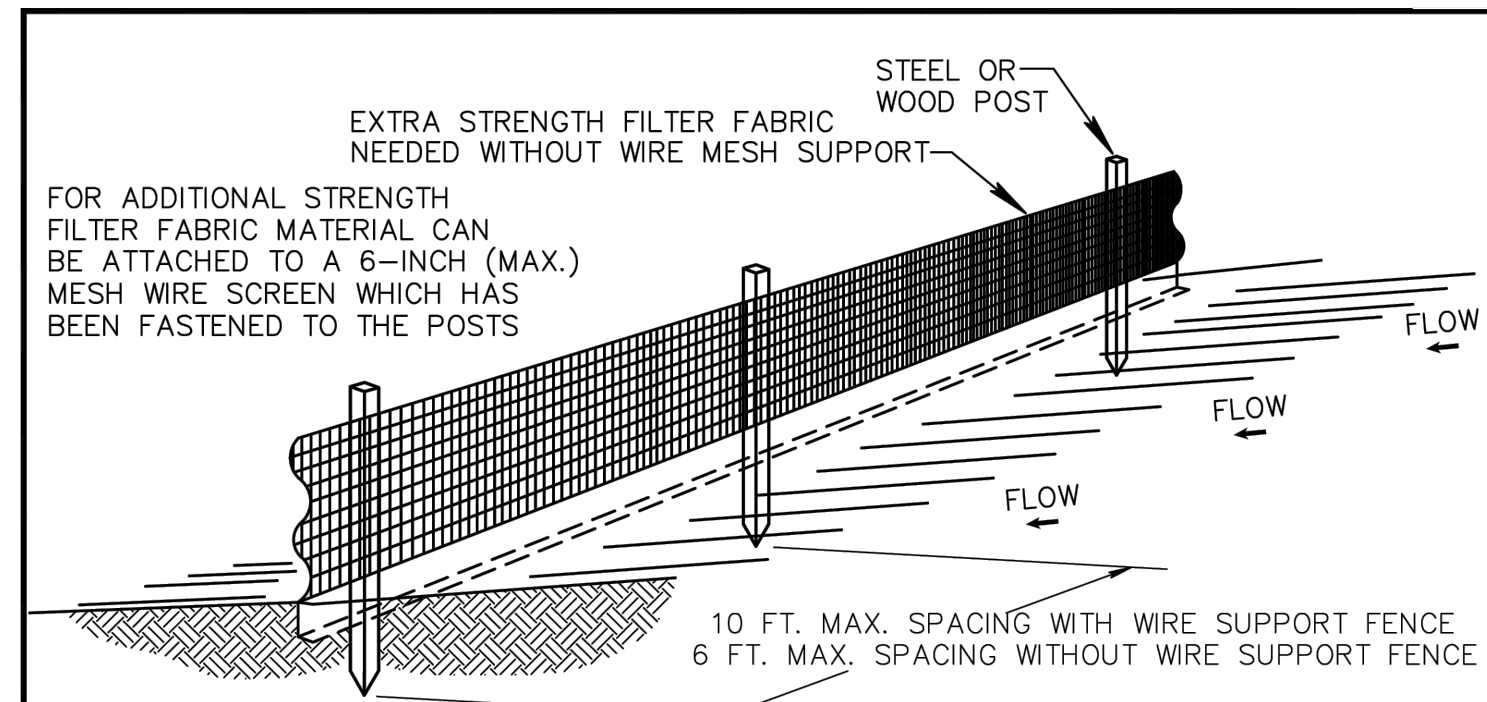
A SEDIMENT TRAP WILL BE EXCAVATED BEHIND THE CURB AT THE INLET. THE BASIN SHALL BE AT LEAST 12 TO 14 INCHES IN DEPTH, APPROXIMATELY 36 INCHES IN WIDTH, AND APPROXIMATELY 7 TO 10 FEET IN LENGTH PARALLEL TO THE CURB.

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 VIA OVERLAND FLOW LAND AREA BEHIND THE CURB. THE CURB CUTS SHALL BE REPAIRED WHEN THE SEDIMENT TRAP IS REMOVED.

CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444	INLET FILTER DETAIL	DATE: 09-15-2021
		D10.0

1. THE INTENT OF EROSION CONTROL MEASURES INDICATED GRAPHICALLY ON PLANS IS TO PROVIDE A BARRIER TO CONTAIN SILT AND SEDIMENT ON THE PROJECT SITE. THIS REPRESENTATION IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE TEST OF EROSION CONTROL EFFECTIVENESS IS NOT TO BE DETERMINED BY ADHERENCE TO THE REPRESENT SET FORTH ON THE DRAWINGS AND SPECIFICATIONS, BUT BY MEETING THE REGULATIONS SET FORTH BY THE AUTHORITY HAVING JURISDICTION OVER WATER QUALITY CONTROL AND OTHER SEDIMENTATION RESTRICTION REQUIREMENTS IN THE REGION.
2. APPROVED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY CLEARING, GRADING, EXCAVATION, FILLING, OR OTHER LAND DISTURBANCE ACTIVITIES, EXCEPT THOSE OPERATIONS NEEDED TO INSTALL SUCH MEASURES.
3. 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.
4. KEEP DUST WITHIN TOLERABLE LIMITS BY SPRINKLING OR OTHER ACCEPTABLE MEANS.
5. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED IF DEEMED NECESSARY BY ONSITE INSPECTION.
6. FAILURE TO PROPERLY INSTALL AND MAINTAIN EROSION CONTROL PRACTICES SHALL RESULT IN CONSTRUCTION BEING HALTED.
7. 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.
9. 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 DELRAY BEACH.
12. DISCHARGE FROM DEWATERING OPERATIONS SHALL BE RETAINED ONSITE IN A CONTAINMENT AREA.

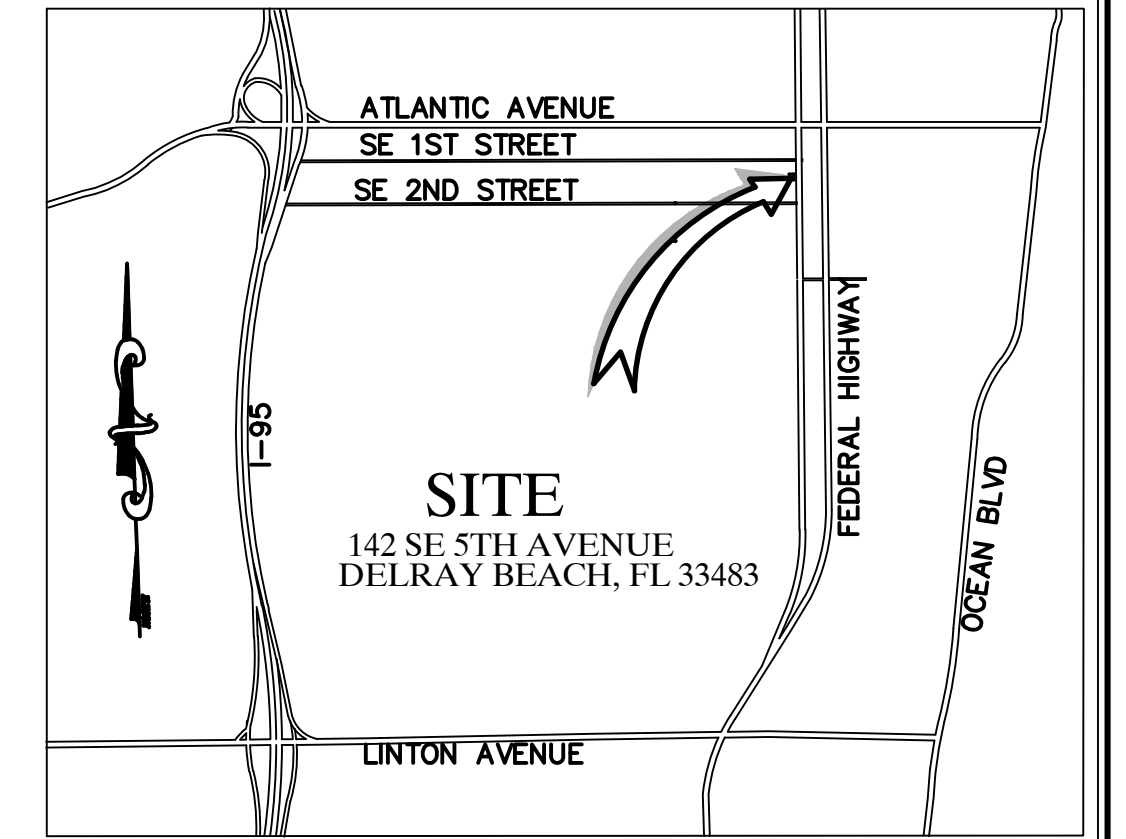
CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444	EROSION CONTROL NOTES DETAIL	DATE: 09-15-2021
		D 11.0



NOTES:

1. THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES.
2. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS.
3. 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.
4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
5. 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, THE 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.
6. 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.
7. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
8. 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 434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444	SILT FENCE INSTALLATION DETAIL (SHEET 1 of 2)	DATE: 09-15-2021
		D12.0

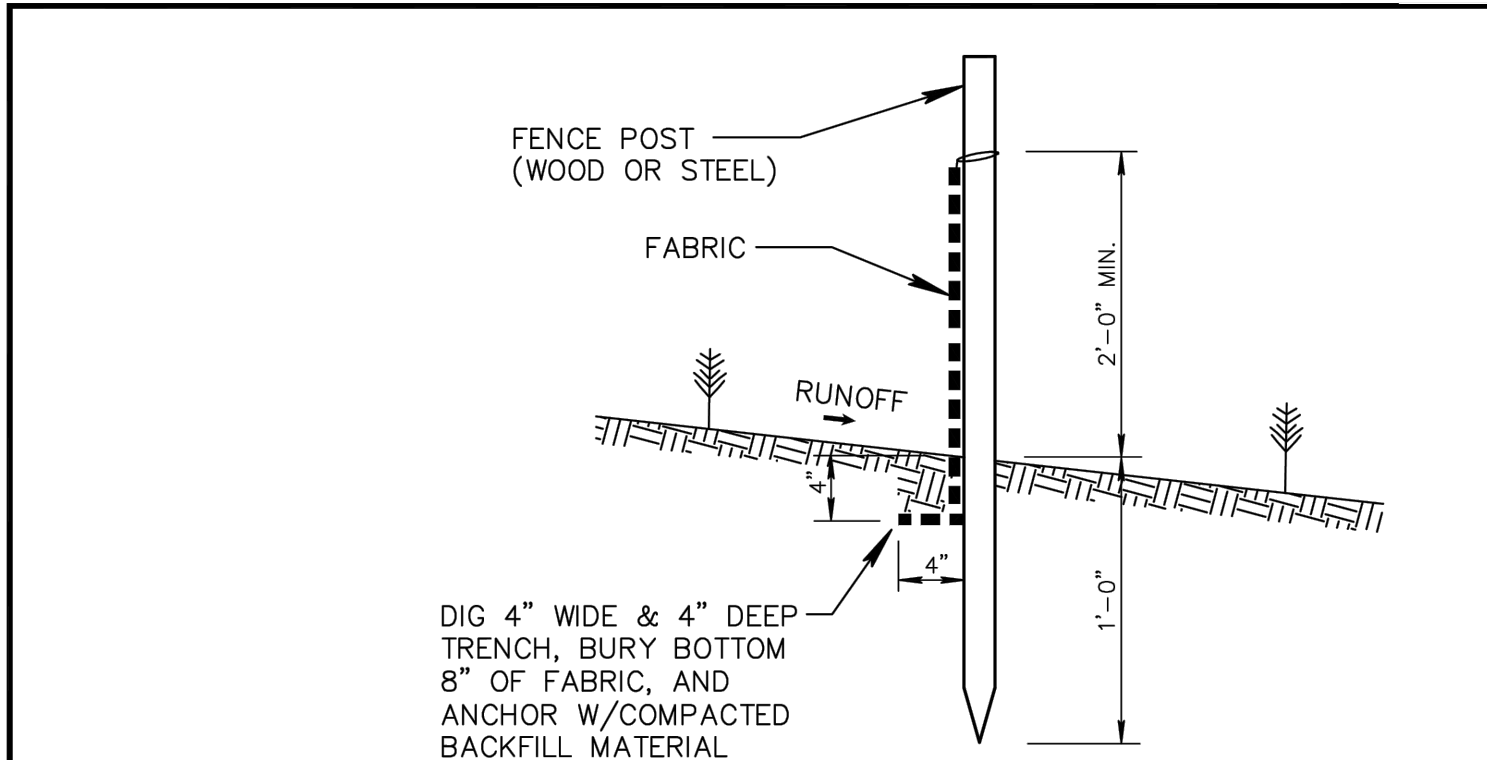
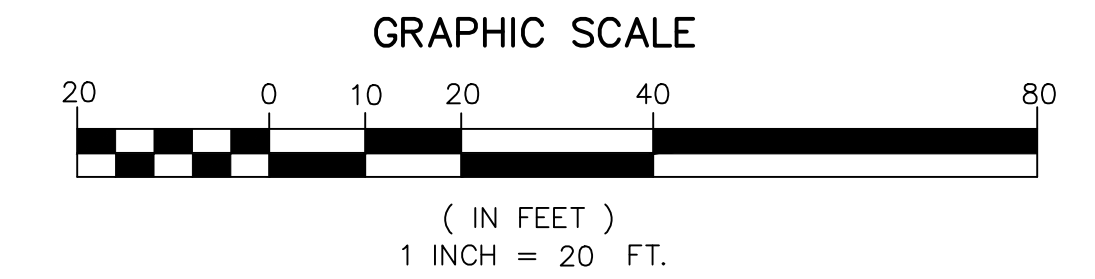


LEGEND

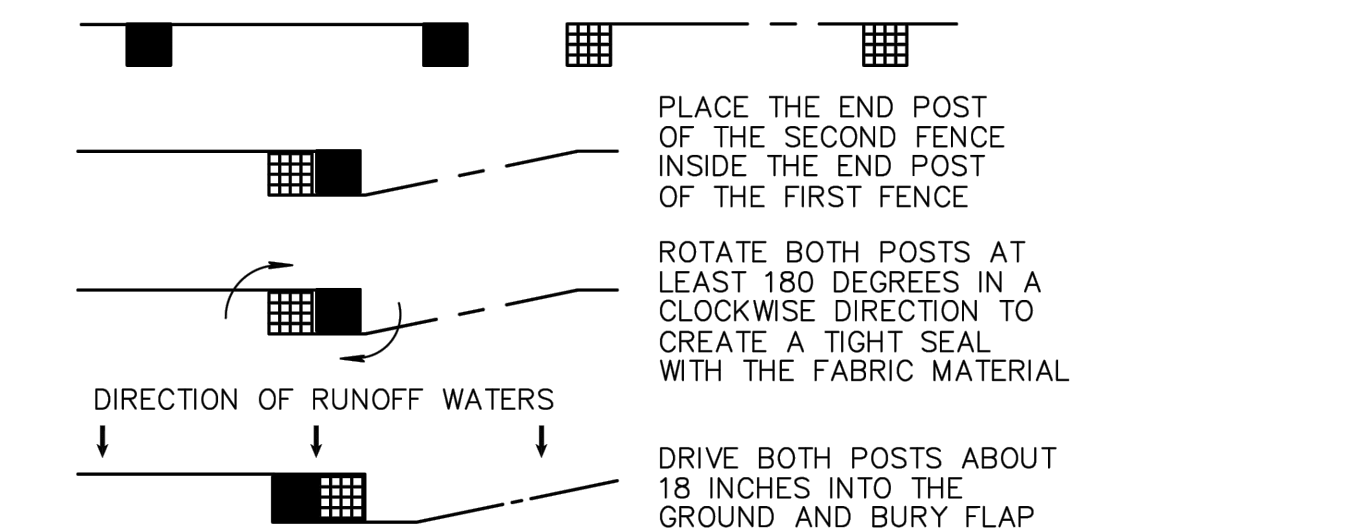
BOUNDARY OF POLLUTION PREVENTION (SILT FENCE OR HAY BALES PER F.D.O.T. INDEX 103)

INLET FILTER (REQUIRED FOR ALL INLETS DOWNSTREAM OF DISTURBED AREAS)

Call 48 hours before you dig
It's the Law! 1-800-432-4770
Sunshine State One Call of Florida, Inc.

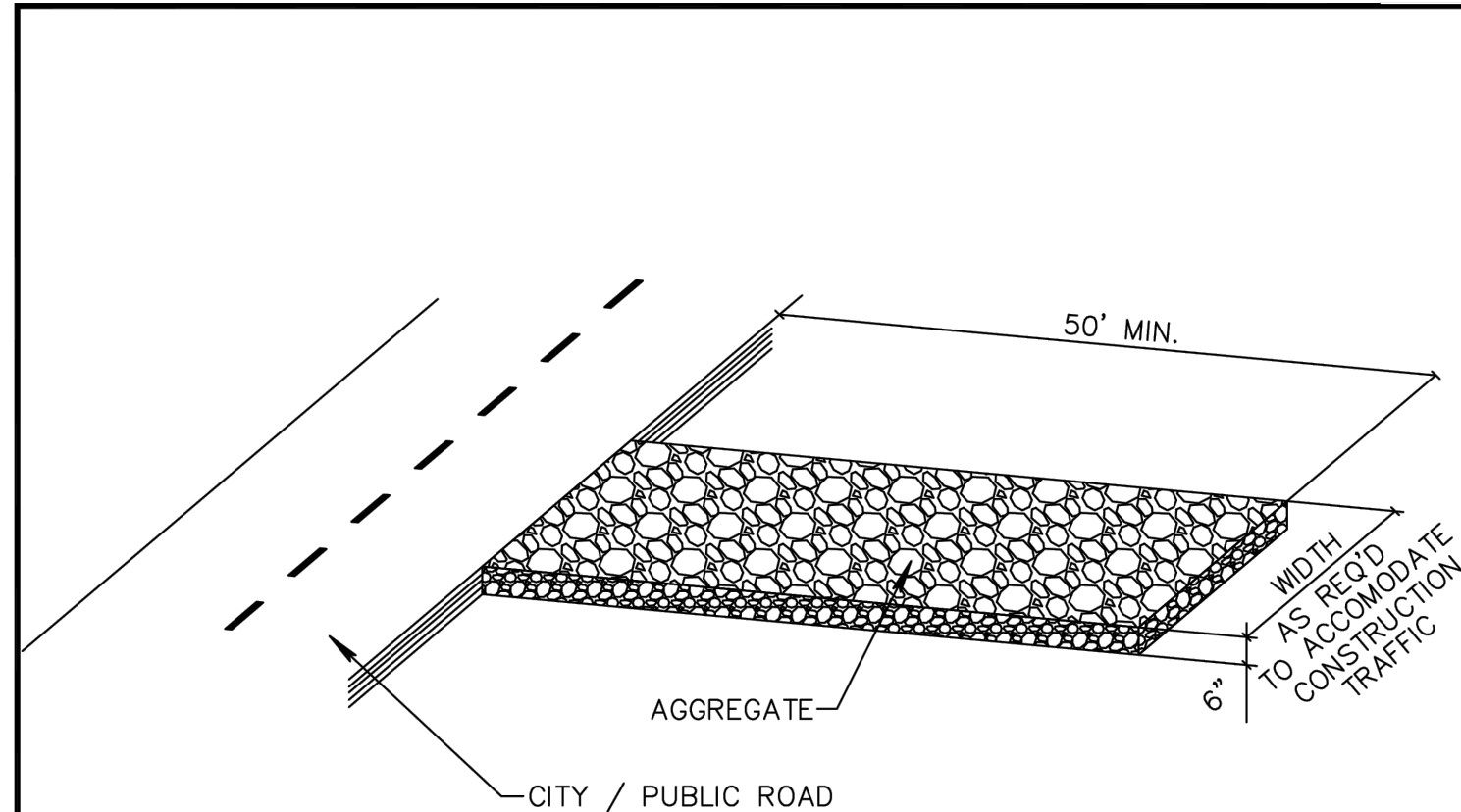


SILT FENCE SECTION
NOT TO SCALE



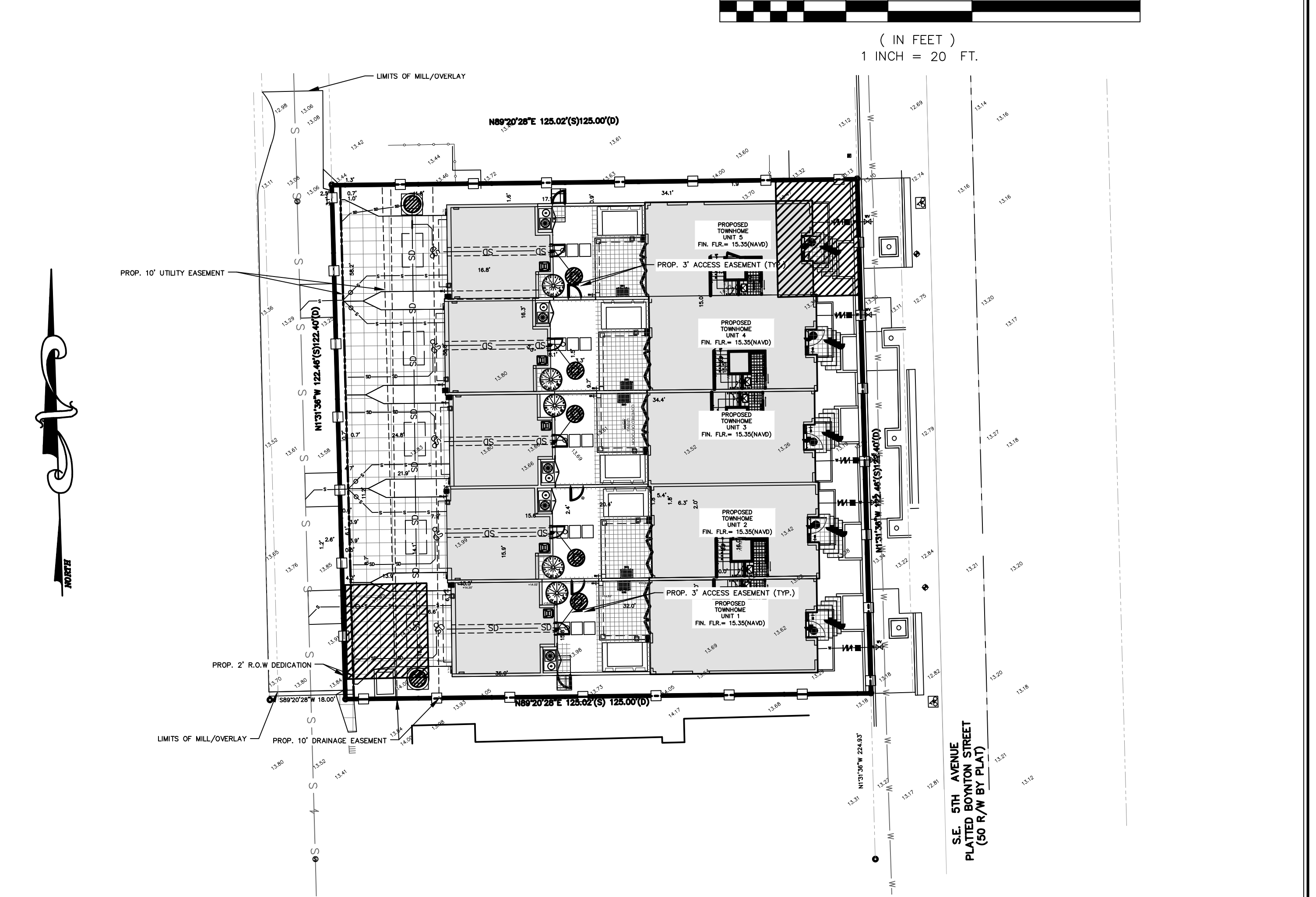
ATTACHING TWO SILT FENCES
NOT TO SCALE

CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444	SILT FENCE INSTALLATION DETAIL (SHEET 2 OF 2)	DATE: 09-15-2021
		D 12.1



NOTE:
A CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AND CONTAIN AN AGGREGATE LAYER (FDOT AGGREGATE NO.1), AT LEAST 6-INCHES THICK. IT MUST EXTEND TO THE WIDTH OF THE VEHICULAR INGRESS AND EGRESS AREA.

CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444	STABILIZED CONSTRUCTION ENTRANCE DETAIL	DATE: 09-15-2021
		D 13.0



POLLUTION PREVENTION DETAIL

REV PER CITY COMMENTS	08/05/24	MARK
REV PER CITY COMMENTS	08/29/24	JRH
REV PER CITY COMMENTS	07/18/24	JRH
REVISIONS	DATE	BY
FILE NAME: 1057FENG.dwg		

CAULFIELD & WHEELER, INC.
 LANDSCAPE ARCHITECTURE SURVEYING
 7900 GLADES ROAD, SUITE 100
 BOCA RATON, FLORIDA 33434
 PHONE (561)-392-1991 / FAX (561)-750-1452

**FIFTH AVENUE TOWNHOMES
 PROPOSED TOWNHOMES
 PROPOSED
 POLLUTION PREVENTION PLAN AND DETAILS
 142 SE 5TH AVE, DELRAY BEACH, FL 33483**

DATE 10/18/23
 DRAWN BY JUB
 F.B./ PG. ----
 SCALE 1" = 20'

MATTHEW V. KAHN
 PROFESSIONAL ENGINEER
 LICENSE NO. 82227
 STATE OF FLORIDA
 - FOR THE FIRM -
 DATE

JOB # 10577
 SHT. NO.
PP-1
 OF 14 SHEETS

GENERAL NOTES
PAVING, GRADING & DRAINAGE

- ALL DIMENSIONS SHOWN ON THESE DRAWINGS ARE SCALED DISTANCES. THE CONTRACTOR SHALL CONTACT ALL AGENCIES IN THE FIELD AND NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCY PRIOR TO PERFORMING THE WORK. ALL QUANTITIES SHALL BE PAID ON THE BASIS OF FIELD MEASUREMENTS OF COMPLETED WORK.
- REINFORCED CONCRETE PIPE (R.C.P.) SHALL BE IN ACCORDANCE WITH F.D.O.T. STANDARDS SPECIFICATIONS SEC. 941. CORRUGATED ALUMINUM PIPE (C.A.P.) SHALL BE IN ACCORDANCE WITH F.D.O.T. STANDARDS SPECIFICATIONS SEC. 945.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE SUCH EXAMINATION OF THE SITE OF THE WORK, AND OF ANY MATERIAL SOURCES INDICATED IN THE PLANS, AS MAY BE NECESSARY TO INFORM HIMSELF OF THE CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED.
- PROPOSED GRADES SHOWN IN PAVED AREAS REFER TO FINISH PAVEMENT GRADES.
- PAVEMENT MARKING AND GEOMETRICS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND PALM BEACH COUNTY TYPICAL NO. T-P-17.
- ALL LOTS, ROADWAYS AND BORROW AREAS SHALL BE STRIPPED OF ALL DELETERIOUS (UNSUITABLE) MATERIALS AND MATERIALS SHALL BE DISPOSED WITHIN THE SITE.
- ALL GRADING OF STREETS, INCLUDING THE REMOVAL OF ALL MATERIALS 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 PAVING.
- 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.
- THE FULL DEPTH OF ALL EXISTING ORGANIC AND DELETERIOUS MATERIALS WITHIN THE RIGHT-OF-WAY AND UTILITIES AND DRAINAGE EASEMENT SHALL BE COMPLETELY REMOVED. NO MATERIALS OF F.D.O.T. CLASS A-5, A-7, OR A-8 SHALL 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.
- ALL PAVING AND DRAINAGE WORK TO BE CONSTRUCTED IN FULL ACCORDANCE WITH PALM BEACH COUNTY STANDARDS AND SPECIFICATIONS.
- THE SEQUENCE OF CONSTRUCTION SHALL BE SUCH THAT ALL UNDERGROUND INSTALLATIONS OF EVERY KIND THAT WOULD BE BENEATH THE PAVEMENT CURRENTLY TO BE CONSTRUCTED SHALL BE INSTALLED PRIOR TO THE COMPLETION OF SUBGRADE.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER AND COUNTY ON ALL PIPE, PIPE BANDS, DRAINAGE STRUCTURES, GRATES, FRAMES AND COVERS.
- 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 NO EXPENSE TO OWNER.
- WHERE CONNECTIONS TO AN EXISTING DRAINAGE SYSTEM ARE PROPOSED, SAID EXISTING DRAINAGE STRUCTURES AND LINES SHALL BE PURGED OF ALL SILT AND DEBRIS PRIOR TO SAID CONNECTION, AND WHERE EXISTING DRAINAGE SYSTEM INCLUDES DITCHES, SAID DITCHES SHALL BE CLEARED AND REWORKED, AS NECESSARY, TO RESTORE THEM TO THEIR APPROVED DESIGN SECTION.
- ALL PIPE JOINTS ARE TO BE INSPECTED BY A REPRESENTATIVE OF THE ENGINEER PRIOR TO BACKFILLING. ALL INSPECTIONS SHOULD BE ARRANGED NO LESS THAN 48 HOURS IN ADVANCE.
- ALL CATCH BASIN GRATES MUST HAVE LOCKING CHAINS IN ACCORDANCE WITH FDOT INDEX 201.

CLEARING AND GRUBBING:

- WORK SHALL CONSIST OF THE COMPLETE REMOVAL AND DISPOSAL OF ALL BUILDINGS, TIMBER, BRUSH, STUMPS, ROOTS, RUBBISH, AND DEBRIS AND ALL OTHER OBSTRUCTIONS RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE EXISTING GROUND AND THE SURFACE OF EXCAVATED AREAS, AND OF ALL OTHER STRUCTURES AND OBSTRUCTIONS NECESSARY TO BE REMOVED, INCLUDING SEPTIC TANKS, BUILDING FOUNDATIONS, AND PIPES.
- ROOTS AND OTHER DEBRIS SHALL BE REMOVED TO A DEPTH OF AT LEAST ONE FOOT BELOW THE GROUND SURFACE. ALL STUMPS WITHIN THE CONSTRUCTION AREA SHALL BE COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- EXISTING TREES TO REMAIN WHERE SO DIRECTED BY THE ENGINEER, SHALL BE TRIMMED, PROTECTED AND LEFT STANDING.
- PROPERTY OBSTRUCTIONS WHICH ARE TO REMAIN IN PLACE, SUCH AS BUILDINGS, SEWERS, DRAINS, WATER OR GAS PIPES, CONDUITS, POLES, WALLS, POSTS, BRIDGES, ETC. ARE TO BE CAREFULLY PROTECTED FROM INJURY AND ARE NOT TO BE DISPLACED.
- CLEARING AND GRUBBING MATERIALS SHALL BE DISPOSED OF BY THE CONTRACTOR IN LOCATIONS AND BY METHODS APPROVED BY THE ENGINEER.

SUBGRADE:

- UTILIZATION OF MATERIAL IN SUBGRADE CONSTRUCTION SHALL BE IN ACCORDANCE WITH PLAN DETAILS OR AS DIRECTED BY THE ENGINEER.
- A PROCTOR TEST SHALL BE PERFORMED ON THE PROPOSED SUBGRADE MATERIAL TO DETERMINE THE OPTIMUM MOISTURE CONTENT AND MAXIMUM DENSITY OF THE MATERIAL. IN-PLACE DENSITY TESTS OF THE FINISH SUBGRADE SHALL BE PERFORMED AT A FREQUENCY OF AT LEAST ONE TEST FOR EVERY 7,000 SQ.FT. OF PROPOSED PAVEMENT AREA TO DETERMINE COMPLIANCE WITH THE DESIGN SPECIFICATIONS OF 100% OF MAX. DENSITY PER AASHTO T-99 TESTING METHODS.
- STABILIZED SUBGRADE SHALL HAVE A MINIMUM LIMEROCK BEARING RATIO (LBR) OF 40. THE COMPACTED SUBGRADE SHALL CONFORM TO THE LINES, GRADES, AND CROSS-SECTIONS SHOWN ON THE PLANS. ALL ROOTS, STUMPS, OR OBJECTIONABLE MATERIAL PRESENT ON, UNDER, OR PROTRUDING THROUGH THE SURFACE SHALL BE COMPLETELY REMOVED FROM THE SUBGRADE. THE FINISHED SURFACE OF 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:

- IF DURING THE PROPOSED CONSTRUCTION/CROSSING ANY EXISTING PB COUNTY STORM DRAIN PIPE/STRUCTURES ARE AFFECTED IN ANY WAY PB COUNTY R&B REQUIRES FULL RESTORATION OF THE AFFECTED SYSTEM TO LIKE OR BETTER THEN LIKE CONDITION AND TO PB COUNTY/FDOT STANDARDS. ALL AFFECTED ROADWAYS ARE TO BE RESTORED FROM EOP TO EOP, LANE WIDTH MIN. AND 50' IN EITHER DIRECTION.(THOROUGHFARE) AND 25' MIN. RESTORATION (NON-THOROUGHFARE).
- IF ANY ADDITIONAL LANES ARE AFFECTED FOR ANY REASON DURING CONSTRUCTION, PB COUNTY R&B WILL REQUIRE THE ADDITIONAL LANES BE RESTORED TO LIKE OR BETTER THEN LIKE CONDITION AND TO EQUAL DIMENSIONS AS THE ADJACENT LANES.
- IF PB COUNTY SIDEWALK / PATHWAY / C&G / AND/OR ADA FACILITIES ARE AFFECTED PB COUNTY R&B WILL REQUIRE RESTORATION OF A MINIMUM OF 10' AND TO BE LIKE OR BETTER THEN LIKE CONDITION PER / FDOT / PB COUNTY STANDARDS.
- 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:

- CONTACT HAROLD REED AT 561 681-4326 BEFORE STARTING CONSTRUCTION PBC-TRAFFIC ITS WILL REMOVE FIBER OPTIC CABLES FROM UNDERGROUND AND OVERHEAD FACILITIES PRIOR CONSTRUCTION. PLEASE PROVIDE 2 WEEKS ADVANCE NOTICE TO REMOVE FIBER OPTIC CABLE.
- CONTRACTOR SHALL CONTACT PALM BEACH COUNTY TRAFFIC OPERATIONS AT 561-233-3900 FORTY-EIGHT(48) HOURS PRIOR TO CONSTRUCTION IF WORK IS BEING DONE WITHIN 10 FEET OF ANY SIGNAL EQUIPMENT.
- 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 BEACH COUNTY.
- NO EXCAVATION AROUND PBC SIGNAL POLES WITHIN 6 FT. RADIUS FROM CENTER OF POLE. PLEASE SEE PBC SIGNAL TYPICAL PAGE T-5.3 (SHEET 8 OF 25).

BASE:

- LIMEROCK COMPOSITION - THE FOLLOWING TESTS ARE REQUIRED ON THE LIMEROCK MATERIAL:
 - CHEMICAL COMPOSITION TEST TO DETERMINE THAT MATERIAL HAS A MINIMUM PERCENT CARBONATES OF 60%.
 - LIMEROCK BEARING RATIO TEST TO DETERMINE THAT MATERIAL CAN ACHIEVE AN LBR OF 100.
- 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 FINE MATERIAL SHALL CONSIST ENTIRELY OF DUST OF FRACTURING. ALL GRUSHING OR BREAKING-UP WHICH MIGHT BE NECESSARY IN ORDER TO MEET SUCH SIZE REQUIREMENTS SHALL BE DONE BEFORE THE MATERIAL IS PLACED ON THE ROAD.
- A PROCTOR TEST SHALL BE PERFORMED ON THE PROPOSED LIMEROCK MATERIAL TO DETERMINE THE MAXIMUM DENSITY OF THE MATERIAL. IN-PLACE DENSITY TESTS SHALL BE TAKEN AT A FREQUENCY OF AT LEAST ONE TEST FOR EVERY 7,000 SQ.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 SURFACE SHALL BE STRINGLINED OR CHECKED WITH TEMPLATES TO VERIFY CONFORMANCE WITH THE PLAN GRADES WITHIN AN ALLOWABLE TOLERANCE OF 1/4" OF THE PROPOSED BASE ELEVATIONS.
- PRIME COAT SHALL BE APPLIED AT A RATE OF 0.25 GALLONS PER SQUARE YARD.

ASPHALTIC CONCRETE SURFACE COURSE:

- TACK COAT
 - PRIOR TO INSTALLATION OF THE OVERLAY, THE SURFACE OF THE EXISTING ASPHALT SHALL BE BROOMED TO REMOVE ALL LOOSE MATERIAL WHICH MIGHT INTERFERE WITH THE ADHESION OF THE 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/SQ.FT. IN THE PRESENCE OF THE ENGINEER'S REPRESENTATIVE.
- PRIME 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.
- ASPHALTIC CONCRETE SHALL CONFORM TO FLORIDA D.O.T. REQUIREMENTS OF TYPE S-1 AND S-3. CERTIFICATIONS 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.
- THE THICKNESS OF THE FINISHED SURFACE COURSE SHALL BE CHECKED AT VARIOUS INTERVALS TO INSURE THAT THE LINE, GRADE, AND CROSS-SECTION OF THE FINISHED PAVEMENT SECTION IS IN CONFORMANCE WITH THE DESIGN PLANS. THE FINISHED SURFACE SHALL BE OF UNIFORM TEXTURE AND COMPACTION. THE SURFACE SHALL HAVE NO PULLED, TORN, OR LOOSENED PORTIONS AND SHALL BE FREE OF SEGREGATION, SAND, STREAKS, SAND SPOTS, OR RIPPLES. ALL AREAS OF THE SURFACE WHICH DOES NOT MEET THE FOREGOING REQUIREMENTS SHALL BE CORRECTED TO THE ENGINEER'S SATISFACTION.
- ALL REPAIRS TO EXISTING PAVEMENT SHALL RECEIVE SAWCUT EDGE PRIOR TO RELAYING ASPHALT. UNDER PAVEMENT UTILITY PIPING OR WIRING LESS THAN FOUR (4) INCHES THICK AND TO BE SCHEDULED 40 PVC CASING PIPE WITH SAND BACKFILLS.
- ALL PERMANENT CONTROL POINTS AND/OR REFERENCE MARKERS SHOWN ON PLAT SHALL BE RAISED TO FINAL GRADE IF LOCATED IN PAVEMENT OR CONCRETE. THESE POINTS AND REFERENCE MARKERS SHALL BE LOCATED AND NOTED ON THE PLAT.

NOTIFICATION, TESTING

- NOTIFICATION - THE CONTRACTOR SHALL NOTIFY THE ENGINEER, THE COUNTY AND UTILITIES 48 HOURS PRIOR TO SCHEDULING FIELD OBSERVATIONS AND SHALL SUPPLY ALL EQUIPMENT NECESSARY TO TEST THE COMPLETED WORK. CALL U.N.C.L.E. PRIOR TO ANY EXCAVATION.
- ALL DRAINAGE SYSTEMS SHALL BE PUMPED DOWN TO BELOW 1/3 OF THE DIAMETER OF THE PIPE (FROM THE INVERT) AND LAMPED AS A REQUIREMENT OF THE FINAL DRAINAGE INSPECTION.
- 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.
- 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.
- 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 SURFACE WITH EDGES IN CLOSE CONTACT AND SHALL BE FIRMLY AND SMOOTHLY EMBEDDED BY LIGHT TAMPING WITH APPROPRIATE TOOLS. ON AREAS WHERE THE SOD MAY SLIDE DUE TO HEIGHT AND SLOPE, THE ENGINEER MAY DIRECT THAT THE SOD BE PEGGED WITH PEGS DRIVEN THROUGH THE SOD BLOCKS INTO FIRM EARTH AT SUITABLE INTERVALS.

NOTES:

- 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.
- 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.
- 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.
FORT LAUDERDALE, FLORIDA 33309

SOLID CONCRETE INTERLOCKING PAVING STONE SPECIFICATIONS

- DESCRIPTION:
 - GENERAL:
 - Scope of Work:
 - Furnish and place sand bedding course.
 - Furnish and install concrete interlocking paving stones in the quality, shape, thickness and a color as specified.
 - Furnish and install all accessory items as required by the contract.
 - Related Work:
 - Furnish and install subgrade per Table 100.6 of the Palm Beach County Land Development Design Standards Manual.
 - Furnish and install base per Table 100.6 of the Palm Beach County Land Development Design Standards Manual.
 - Product Handling:
 - Paving stones shall be delivered and unloaded at jobsite in such a manner that no damage occurs during shipping, handling and storage.
 - References:
 - Solid concrete interlocking paving stones shall meet or exceed the requirements in ASTM C-936 Standard Specifications for Solid Concrete Interlocking Paving Units.

MATERIALS:

2.1 SOLID CONCRETE INTERLOCKING PAVING STONES

- Thickness, Color and Pattern:
 - Paving stone thickness shall be between 3-1/8" min - 4" max.
 - All paving stones shall be colored through the full depth of paver and not just the surface.
 - A multi-colored paving stone pattern shall be used.
- Cementitious Materials:
 - Portland cements shall conform to ASTM C-150.
- Aggregates:
 - Aggregate shall conform to ASTM C-33 for normal weight concrete except that grading requirements shall not necessarily apply.
- Other Materials:
 - 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.
 - Compressive Strength:
 - At the time of delivery to the work site, the average compressive strength shall not be less than 8,000 psi with no individual unit strength less than 7,000 psi, with testing procedures in accordance with ASTM C-140.
 - Absorption:
 - 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.
 - Proven Field Performance:
 - 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.
 - Visual Inspection:
 - All paving 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.
 - Minor cracks incidental 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.
 - Sampling and Testing:
 - The purchaser shall be accorded proper facilities to inspect and sample the paving stones at the place of manufacture from lots ready for delivery.
 - Paving stones will be sampled and tested in accordance with ASTM C-140.
 - Rejection:
 - If the shipment fails to conform to the specified requirements, the manufacturer may sort it, and new test paving 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 paving stones fail to conform to the specified requirements, the entire lot shall be rejected.

FDOT STANDARD NOTES

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

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.

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

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.

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.

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 Operations Engineer.

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 by the Resident Operations Engineer.

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 provided on the producer's letterhead.

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 expense.

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 to address eventualities such as hurricanes.

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

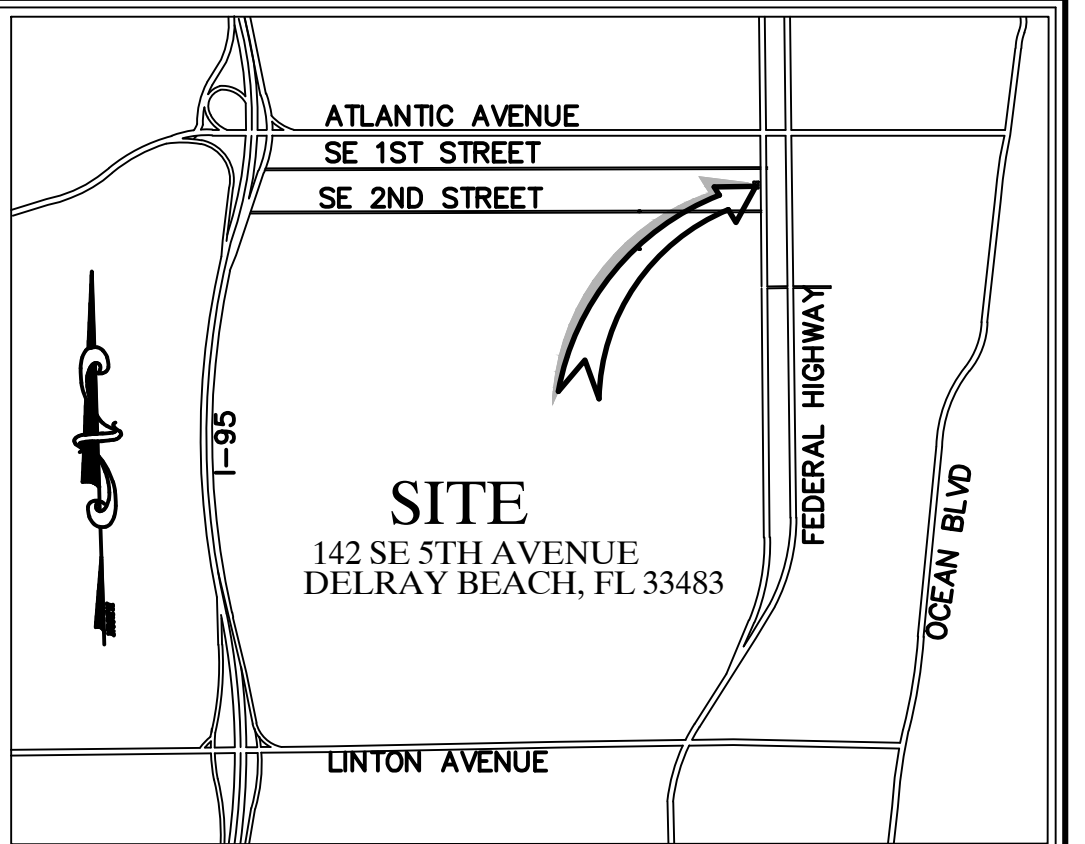
The location of existing utilities shown is approximate only. The contractor shall determine the exact location during construction. Relocation of utilities shall be coordinated with utility companies after identification of conflict by contractor. Contractor will notify engineer in advance before any relocation.

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 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.

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 compaction.



REV.	REV. PER. CITY COMMENTS	DATE
05/05/24	MVK	
08/29/24	JRH	
07/18/24	JRH	
	REVISIONS	DATE
	FILE NAME: 1057TRC.rvt	

CAULFIELD & WHEELER, INC.
CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE - SURVEYING
7900 GLADES ROAD - SUITE 100
BOCA RATON, FLORIDA 33434
PHONE: (561)-392-1981 / FAX (561)-780-1492

FIFTH AVENUE TOWNHOMES
PROPOSED TOWNHOMES
PROPOSED
GENERAL NOTES PLAN
142 SE 5TH AVE, DELRAY BEACH, FL 33483

DATE	10/18/23
DRAWN BY	JJB
F.B./ PG.	----
SCALE	NTS

MATTHEW V. KAHN PROFESSIONAL ENGINEER LICENSE NO. 82227 STATE OF FLORIDA - FOR THE FIRM - DATE

JOB # 10577 SHT. NO. PD-1 OF 14 SHEETS

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

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

All curb cut ramps must face in the direction of pedestrian travel.

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

FLAGGERS MUST BE PRESENT DURING THE INGRESS AND EGRESS OF CONSTRUCTION VEHICLES TO AND FROM THE PROJECT SITE. WARNING SIGNS MUST BE ERRECTED ADVISING MOTORIST OF TRUCKS ENTERING THE HIGHWAY.

PERMIT IS VALID FOR ONE YEAR FROM DATE OF ISSUE.

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.

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

LOT 14, BLOCK 102
TOWN OF LINTON
PLAT BOOK 1, PAGE 3
ONE STORY APARTMENTS
FINISH FLOOR = 14.34

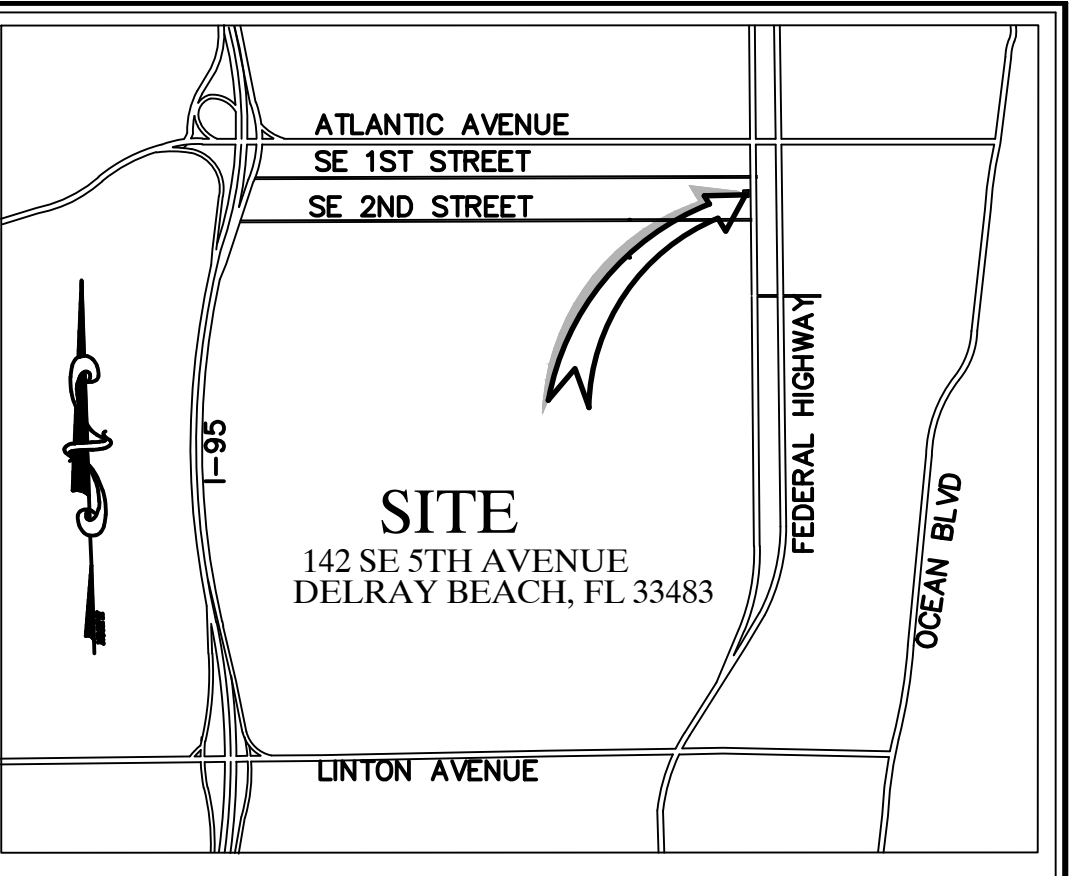
N89°20'28"E 125.02(S)125.00(D)
NORTH LINE OF LOT 15, BLOCK 102

EX. LOT 15, BLOCK 102
ONE STORY RESIDENCE
FINISH FLOOR = 15.51 (TBR)

EX. LOT 16, BLOCK 102
ONE STORY RESIDENCE
FINISH FLOOR = 14.71 (TBR)

BLOCK 110
TOWN OF LINTON
PLAT BOOK 1, PAGE 3
ONE STORY COMMERCIAL
BUILDING
FINISH FLOOR = 14.34

UPTOWN DELRAY
PLAT BOOK 118, PAGE 175
THIS AREA = 15.35



LEGEND

- EX. PROPERTY/ROW LINE
- PROP. PROPERTY/ROW LINE
- PLATTED EAST LINE
- EXISTING GRADE
- PROPOSED GRADE
- MATCH EXISTING GRADE
- PROPOSED WATER LINE
- EXISTING WATER LINE
- PROPOSED SANITARY SEWER LINE
- EXISTING SANITARY SEWER LINE
- PROPOSED ELECTRIC LINE
- EXISTING OVERHEAD LINE
- PROPOSED TELEPHONE/CABLE LINE
- EXISTING TELEPHONE/CABLE LINE
- PROPOSED GAS LINE
- EXISTING GAS LINE
- (TR) TO REMAIN
- (TBR) TO BE REMOVED
- EX. BRICK SIDEWALK (TBR)
- EX. IMPERVIOUS PAVEMENT (TBR)
- PROPOSED 1" ASPHALT MILL/OVERLAY

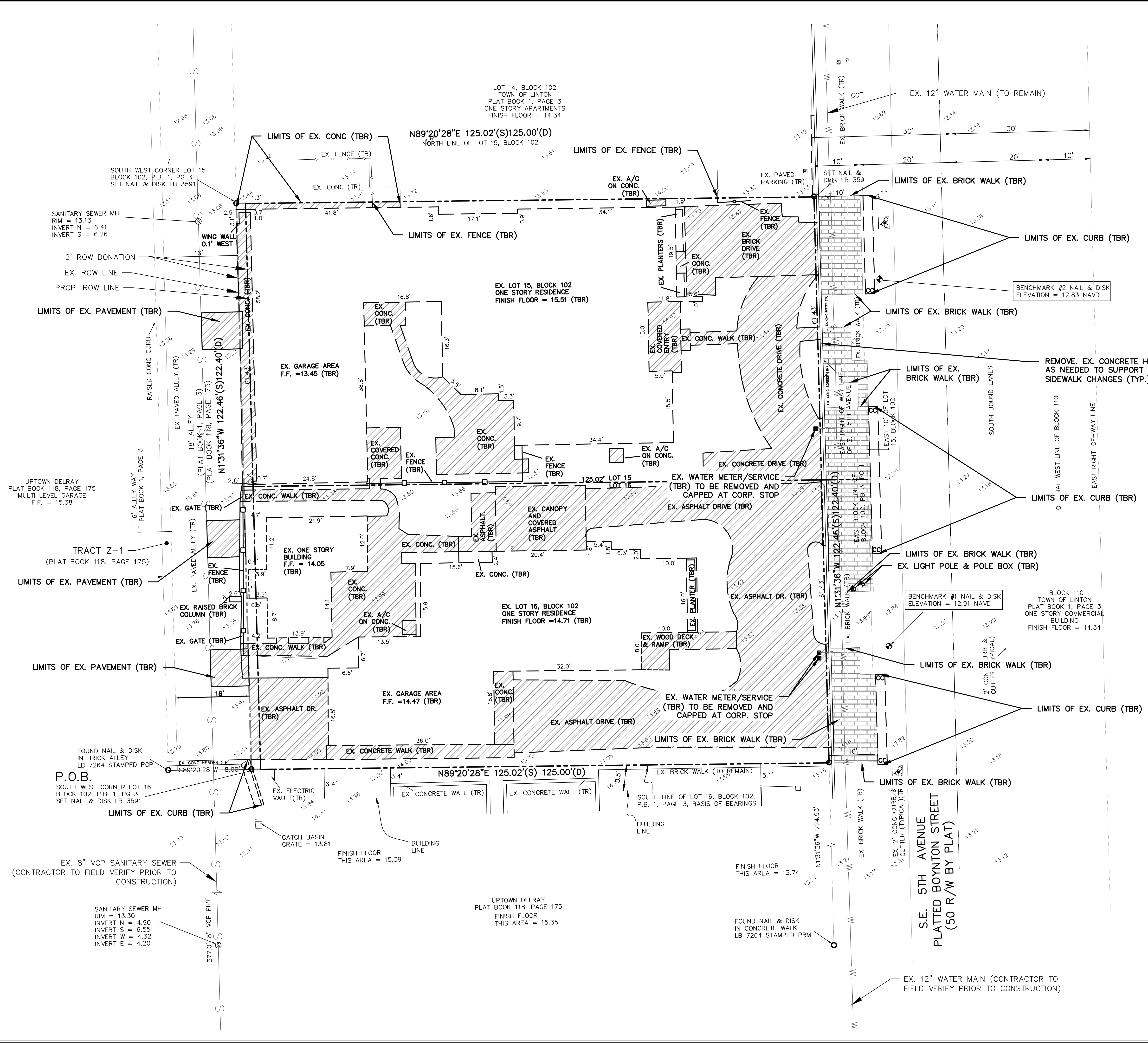
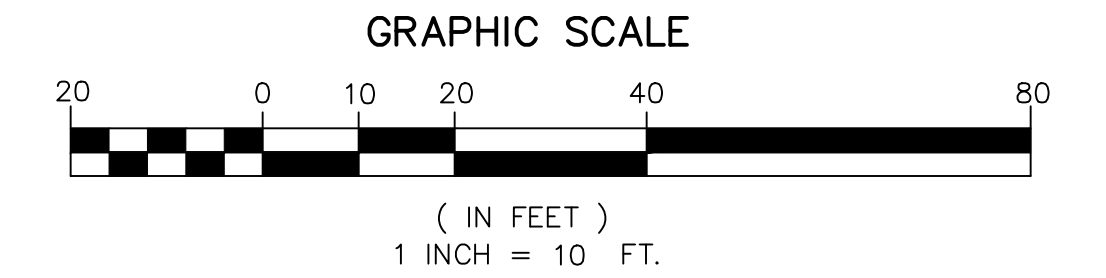
NOTE:
ELEVATION ARE SHOWN IN NAVD
CONVERSION NAVD+1.54 = NGVD

Call 48 hours
before you dig



It's the Law!
1-800-432-4770

Sunshine State One Call of Florida, Inc.



REV. PER CITY COMMENTS	MWK	JRB	JRH	JRH	DATE	BY
	09/05/24					
	08/29/24					
	07/18/24					

CAULFIELD & WHEELER, INC.
CIVIL ENGINEERING - SURVEYING
LANDSCAPE ARCHITECTURE - SUITE 100
7900 GLADES ROAD - BOCA RATON, FLORIDA 33434
PHONE (561)-392-1991 / FAX (561)-750-1452



**FIFTH AVENUE TOWNHOMES
PROPOSED TOWNHOMES
DEMOLITION PLAN**
142 SE 5TH AVE, DELRAY BEACH, FL 33483

DATE	10/18/23
DRAWN BY	JJB
F.B./ PG.	----
SCALE	1" = 10'

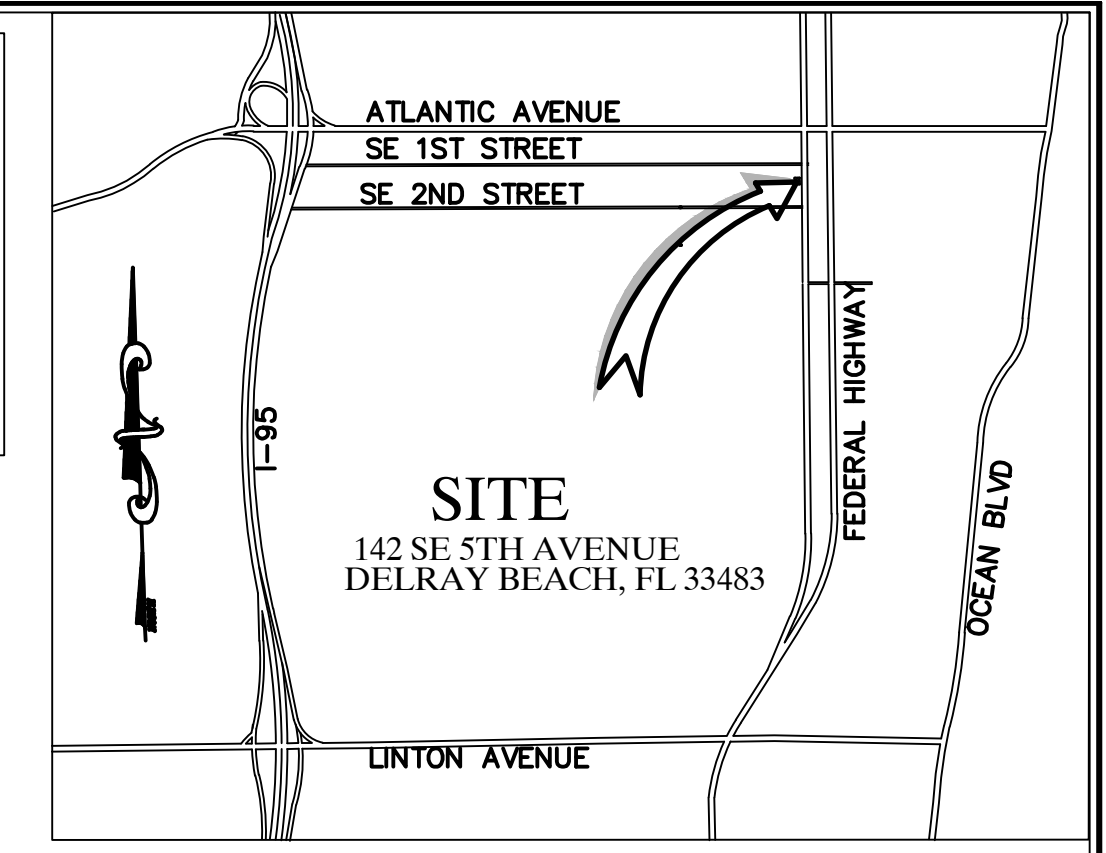
MATTHEW V. KAHN
PROFESSIONAL ENGINEER
LICENSE NO. 82227
STATE OF FLORIDA
- FOR THE FIRM -
DATE

JOB #	10577
SHT. NO.	PD-1A
OF 14 SHEETS	

NOTE: CONTRACTOR IS REQUIRED TO ASBUILT WATER, SEWER, DRAINAGE AND FINAL GRADING ELEVATIONS PER THE REQUIREMENTS OF FDOT/CITY OF DELRAY BEACH

DRAINAGE CRITERIA

CONTROL WATER ELEV. = 2.50' NAVD
 MIN. ROAD ELEV. = 13.15' NAVD
 100-YR-3DAY FLOOD (0 DISCHARGE) ELEV. = 14.39' NAVD
 MIN. FINISH FLOOR ELEV. = 15.35' NAVD
 MIN. PERIMETER BERM ELEV. EQUAL TO OR GREATER THAN 25 YR.-3 DAY STAGE ELEVATION= 11.38' NAVD



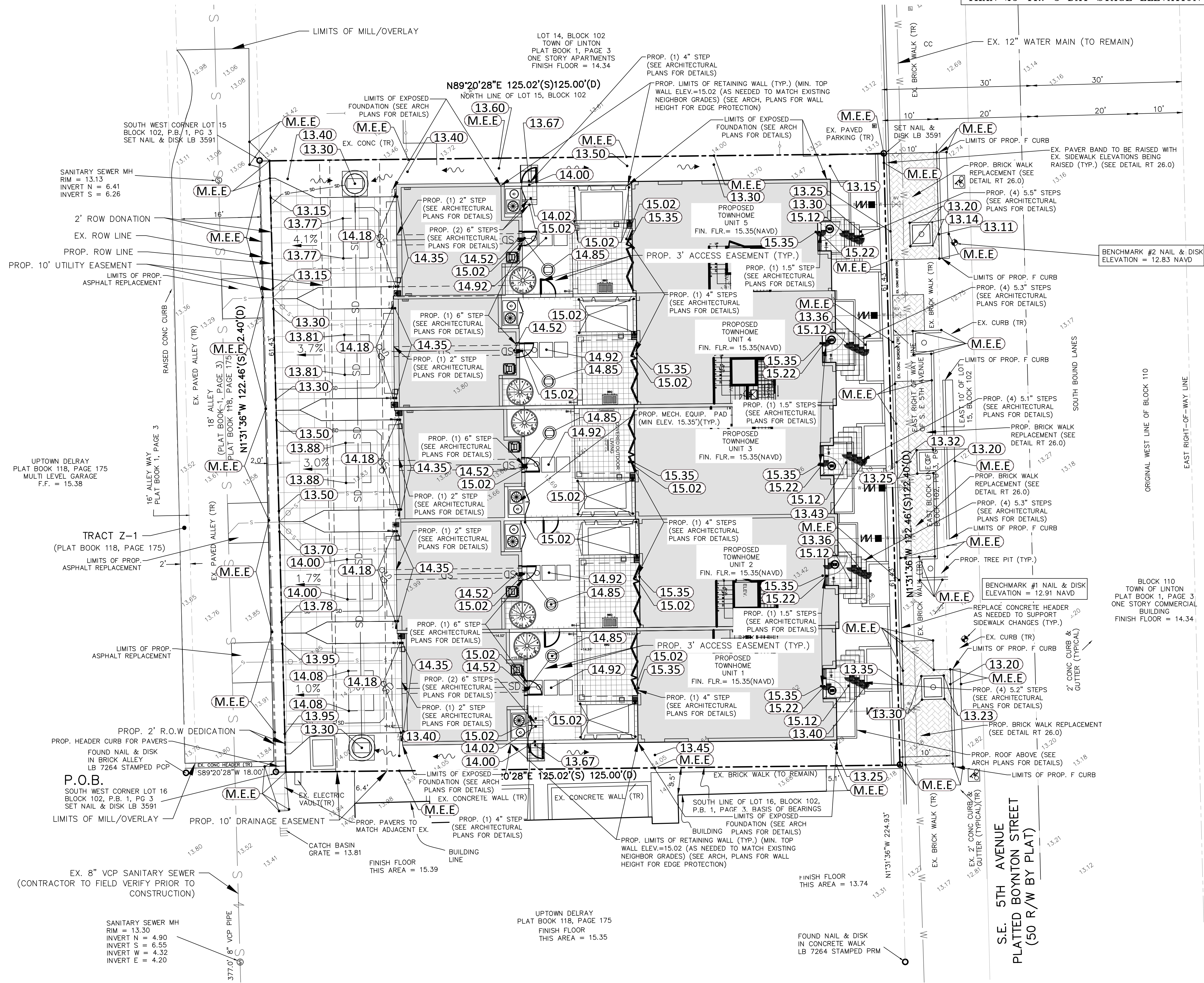
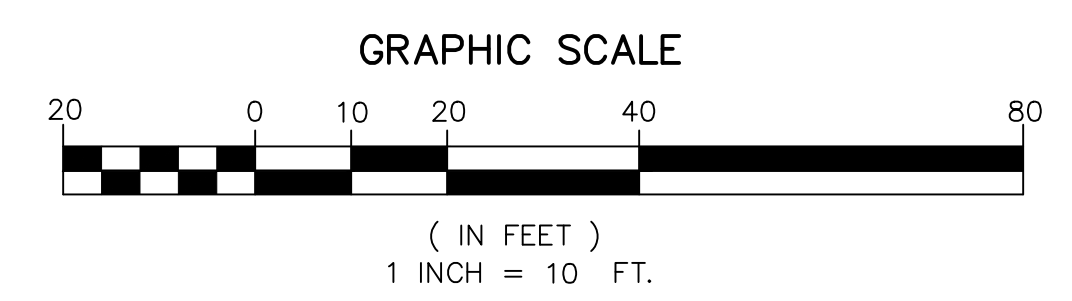
LEGEND

- EX. PROPERTY/ROW LINE
 - - - PROP. PROPERTY/ROW LINE
 - PLATTED EAST LINE
 - PROPOSED DRAINAGE PIPE
 - PROPOSED YARD DRAIN
 - EXISTING GRADE
 - PROPOSED GRADE
 - MATCH EXISTING GRADE
 - PROPOSED WATER LINE
 - EXISTING WATER LINE
 - PROPOSED SANITARY SEWER LINE
 - EXISTING SANITARY SEWER LINE
 - PROPOSED ELECTRIC LINE
 - EXISTING OVERHEAD LINE
 - PROPOSED TELEPHONE/CABLE LINE
 - EXISTING TELEPHONE/CABLE LINE
 - PROPOSED GAS LINE
 - EXISTING GAS LINE
-
- [Hatched Box] PROPOSED BUILDING
 - [Dotted Box] PROPOSED ASPHALT REPLACEMENT (SEE DETAIL RT 1.0)
 - [Cross-hatched Box] PROPOSED ROW BRICK WALK (SEE DETAIL RT 26.0)
 - [Grid Box] PROPOSED ONSITE PEDESTRIAN PAVERS (SEE ARCH PLANS FOR DETAILS)
 - [Dashed Box] PROPOSED PAVER DRIVEWAY (SEE DETAIL RT 28.0)
 - [Stippled Box] PROPOSED TURF (SEE ARCH PLANS FOR DETAILS)
 - [White Box] PROPOSED 1" ASPHALT MILL/OVERLAY
 - [Circle with X] PROPOSED LIGHT POLE (SEE LANDSCAPE PLANS FOR DETAILS)
 - [Circle with X] PROPOSED BOLLARD LIGHT (SEE LANDSCAPE PLANS FOR DETAILS)

Call 48 hours before you dig
It's the Law!
 1-800-432-4770
 Sunshine State One Call of Florida, Inc.

NOTE: ANY TREES OR SHRUBS PLACED WITHIN WATER, SEWER OR DRAINAGE EASEMENTS SHALL CONFORM TO THE CITY OF DELRAY BEACH STANDARD DETAILS: LD 1.0 & 2.0

NOTE: ELEVATION ARE SHOWN IN NAVD
 CONVERSION NAVD+1.54 = NGVD



REV.	PER.	CITY COMMENTS	DATE
09/05/24	MVK		
08/29/24	JRH		
07/18/24	JRH		
		REVISIONS	
		DATE	
		BY	

CAULFIELD & WHEELER, INC.
 CIVIL ENGINEERING - SURVEYING
 LANDSCAPE ARCHITECTURE - SUITE 100
 7900 GLADES ROAD - BOCA RATON, FLORIDA 33434
 PHONE (561)-392-1981 / FAX (561)-750-1452

FIFTH AVENUE TOWNHOMES
 PROPOSED TOWNHOMES
 PROPOSED PAVING
 & GRADING PLAN
 142 SE 5TH AVE, DELRAY BEACH, FL 33483

DATE	10/18/23
DRAWN BY	JJB
F.B./PG.	----
SCALE	1" = 10'

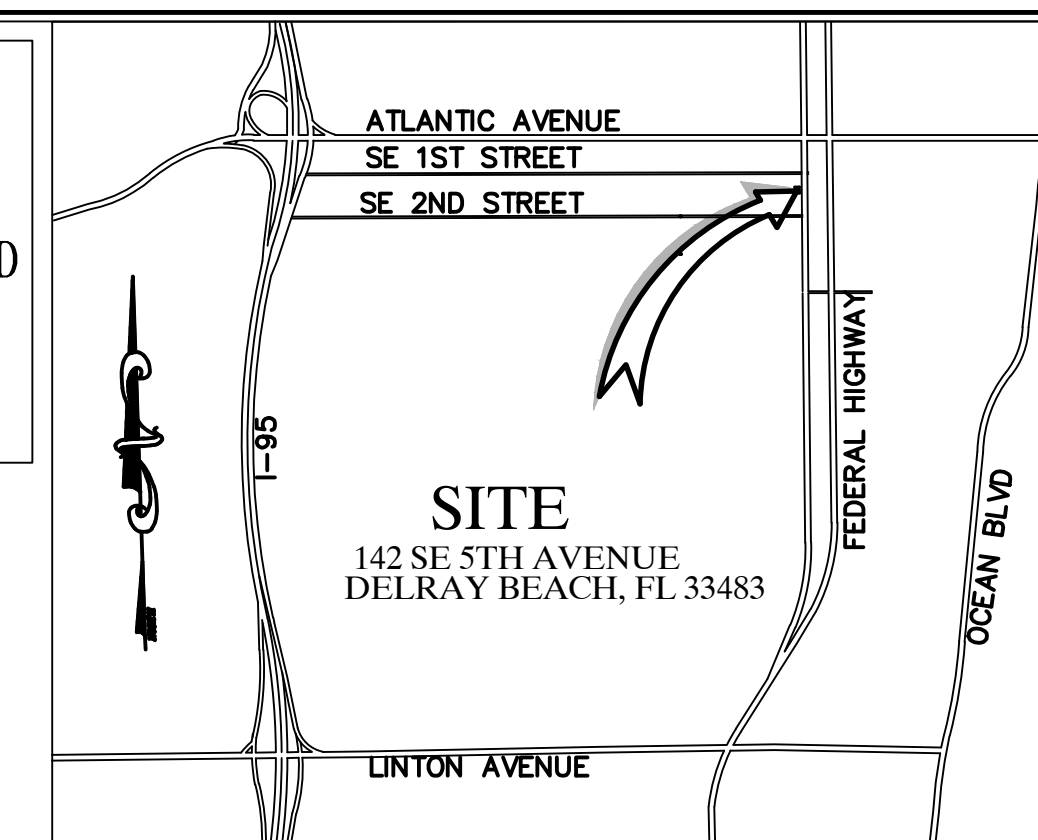
MATTHEW V. KAHN
 PROFESSIONAL ENGINEER
 LICENSE NO. 82227
 STATE OF FLORIDA
 - FOR THE FIRM -
 DATE

JOB # 10577
 SHT. NO.
PD-2
 OF 14 SHEETS

NOTE: CONTRACTOR IS REQUIRED TO ASBUILT WATER, SEWER, DRAINAGE AND FINAL GRADING ELEVATIONS PER THE REQUIREMENTS OF FDOT/CITY OF DELRAY BEACH

DRAINAGE CRITERIA

CONTROL WATER ELEV. = 2.50' NAVD
 MIN. ROAD ELEV. = 13.15' NAVD
 100-YR-3DAY FLOOD (0 DISCHARGE) ELEV. = 14.39' NAVD
 MIN. FINISH FLOOR ELEV. = 15.35' NAVD
 MIN. PERIMETER BERM ELEV. EQUAL TO OR GREATER THAN 25 YR.-3 DAY STAGE ELEVATION= 11.38' NAVD

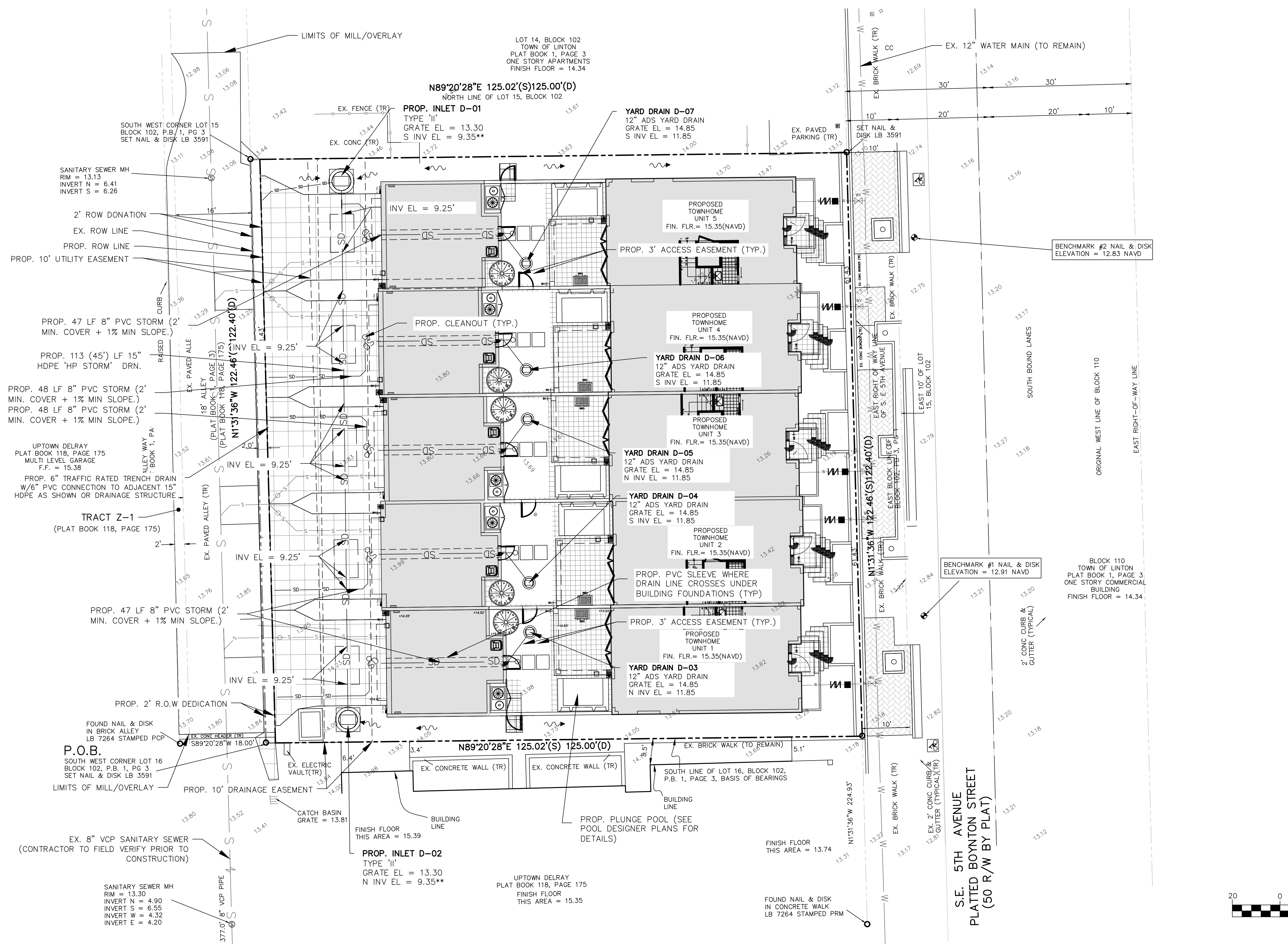
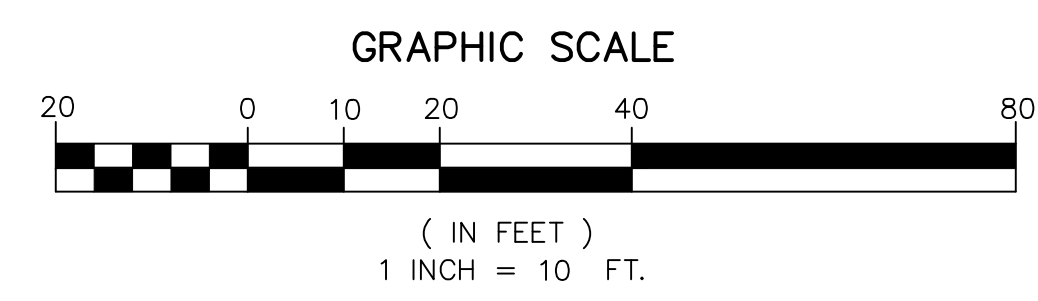
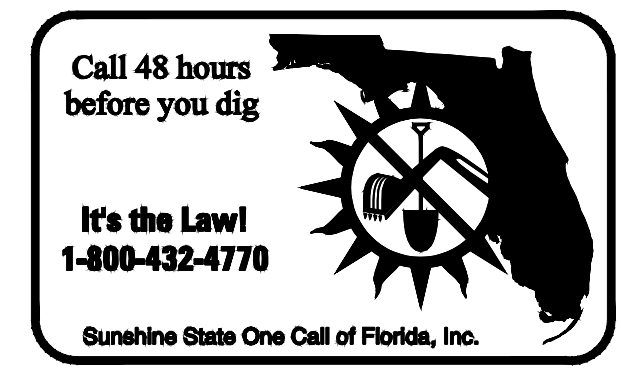


LEGEND

- EX. PROPERTY/ROW LINE
 - - - PROP. PROPERTY/ROW LINE
 - PLATTED EAST LINE
 - PROPOSED DRAINAGE PIPE
 - PROPOSED YARD DRAIN
 - EXISTING GRADE
 - PROPOSED GRADE
 - MATCH EXISTING GRADE
 - PROPOSED WATER LINE
 - EXISTING WATER LINE
 - PROPOSED SANITARY SEWER LINE
 - EXISTING SANITARY SEWER LINE
 - PROPOSED ELECTRIC LINE
 - EXISTING OVERHEAD LINE
 - PROPOSED TELEPHONE/CABLE LINE
 - EXISTING TELEPHONE/CABLE LINE
 - PROPOSED GAS LINE
 - EXISTING GAS LINE
-
- [Hatched Box] PROPOSED BUILDING
 - [Dotted Box] PROPOSED ASPHALT REPLACEMENT (SEE DETAIL RT 1.0)
 - [Cross-hatched Box] PROPOSED ROW BRICK WALK (SEE DETAIL RT 28.0)
 - [Grid Pattern Box] PROPOSED ONSITE PEDESTRIAN PAVERS (SEE ARCH PLANS FOR DETAILS)
 - [Diagonal Line Box] PROPOSED PAVER DRIVEWAY (SEE DETAIL RT 28.0)
 - [Stippled Box] PROPOSED TURF (SEE ARCH PLANS FOR DETAILS)
 - [White Box] PROPOSED 1" ASPHALT MILL/OVERLAY
 - [Circle with Pole] PROPOSED LIGHT POLE (SEE LANDSCAPE PLANS FOR DETAILS)
 - [Circle with Pole] PROPOSED BOLLARD LIGHT (SEE LANDSCAPE PLANS FOR DETAILS)

NOTE: ELEVATION ARE SHOWN IN NAVD CONVERSION NAVD+1.54 = NGVD

NOTE: ANY TREES OR SHRUBS PLACED WITHIN WATER, SEWER OR DRAINAGE EASMENTS SHALL CONFORM TO THE CITY OF DELRAY BEACH STANDARD DETAILS: LD 1.0 & 2.0



REV.	DATE	BY
09/05/24	MVK	
08/29/24	JRH	
07/18/24	JRH	
		DATE
		BY

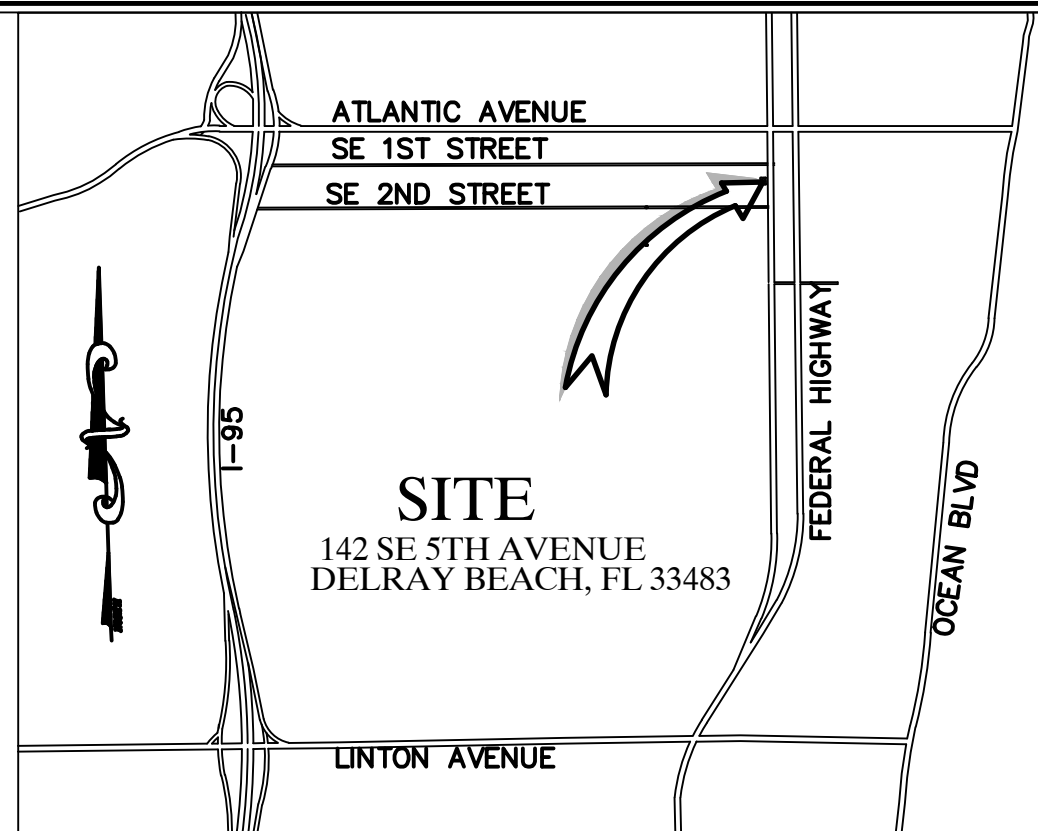
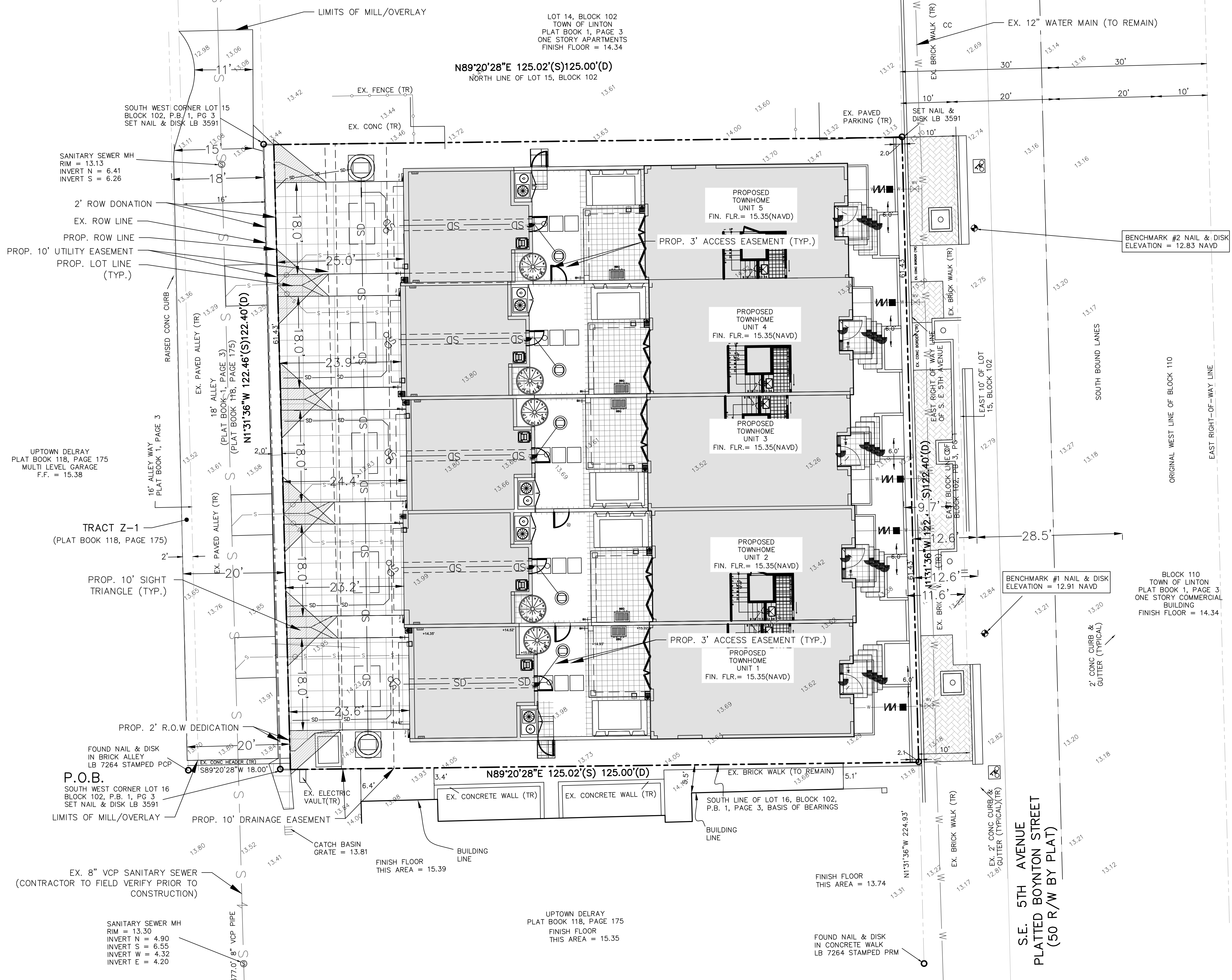
CAULFIELD & WHEELER, INC.
 CIVIL ENGINEERING - SURVEYING
 LANDSCAPE ARCHITECTURE - SUITE 100
 7900 GLADES ROAD - BOCA RATON, FLORIDA 33434
 PHONE (561)-392-1991 / FAX (561)-750-1452

FIFTH AVENUE TOWNHOMES
 PROPOSED TOWNHOMES
 PROPOSED DRAINAGE PLAN
 142 SE 5TH AVE, DELRAY BEACH, FL 33483

DATE 10/18/23
 DRAWN BY JJB
 F.B./ PG. ----
 SCALE 1" = 10'

MATTHEW V. KAHN
 PROFESSIONAL ENGINEER
 LICENSE NO. 82227
 STATE OF FLORIDA
 - FOR THE FIRM -
 DATE

JOB # 10577
 SHT. NO.
PD-2A
 OF 14 SHEETS



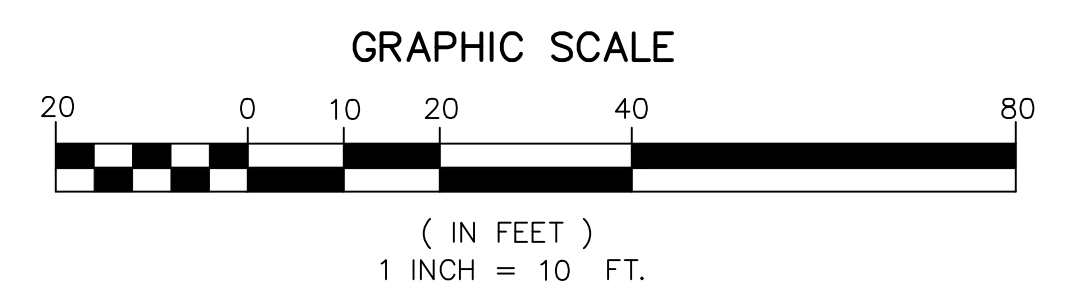
LEGEND

- EX. PROPERTY/ROW LINE
 - - - PROP. PROPERTY/ROW LINE
 - ===== PLATTED EAST LINE
 - PROPOSED DRAINAGE PIPE
 - PROPOSED YARD DRAIN
 - EXISTING GRADE
 - PROPOSED GRADE
 - MATCH EXISTING GRADE
 - PROPOSED WATER LINE
 - EXISTING WATER LINE
 - PROPOSED SANITARY SEWER LINE
 - EXISTING SANITARY SEWER LINE
 - PROPOSED ELECTRIC LINE
 - EXISTING OVERHEAD LINE
 - PROPOSED TELEPHONE/CABLE LINE
 - EXISTING TELEPHONE/CABLE LINE
 - PROPOSED GAS LINE
 - EXISTING GAS LINE
-
- [Pattern] PROPOSED BUILDING
 - [Pattern] PROPOSED ASPHALT REPLACEMENT (SEE DETAIL RT 1.0)
 - [Pattern] PROPOSED ROW BRICK WALK (SEE DETAIL RT 28.0)
 - [Pattern] PROPOSED ONSITE PEDESTRIAN PAVERS (SEE ARCH PLANS FOR DETAILS)
 - [Pattern] PROPOSED PAVER DRIVEWAY (SEE DETAIL RT 28.0)
 - [Pattern] PROPOSED TURF (SEE ARCH PLANS FOR DETAILS)
 - [Pattern] PROPOSED 1" ASPHALT MILL/OVERLAY
 - [Pattern] PROPOSED LIGHT POLE (SEE LANDSCAPE PLANS FOR DETAILS)
 - [Pattern] PROPOSED BOLLARD LIGHT (SEE LANDSCAPE PLANS FOR DETAILS)

NOTE:
ELEVATION ARE SHOWN IN NAVD
CONVERSION NAVD+1.54 = NGVD

NOTE:
ANY TREES OR SHRUBS PLACED
WITHIN WATER, SEWER OR DRAINAGE
EASMENTS SHALL CONFORM TO THE
CITY OF DELRAY BEACH STANDARD
DETAILS: LD 1.0 & 2.0

NOTE:
ALL SIGNAGE TO MATCH LATEST
FDOT/MUTCD STANDARDS.



REV.	PER.	CITY COMMENTS	DATE
09/05/24	MVK		
08/29/24	JRH		
07/18/24	JRH		
		REVISIONS	
		DATE	
		BY	

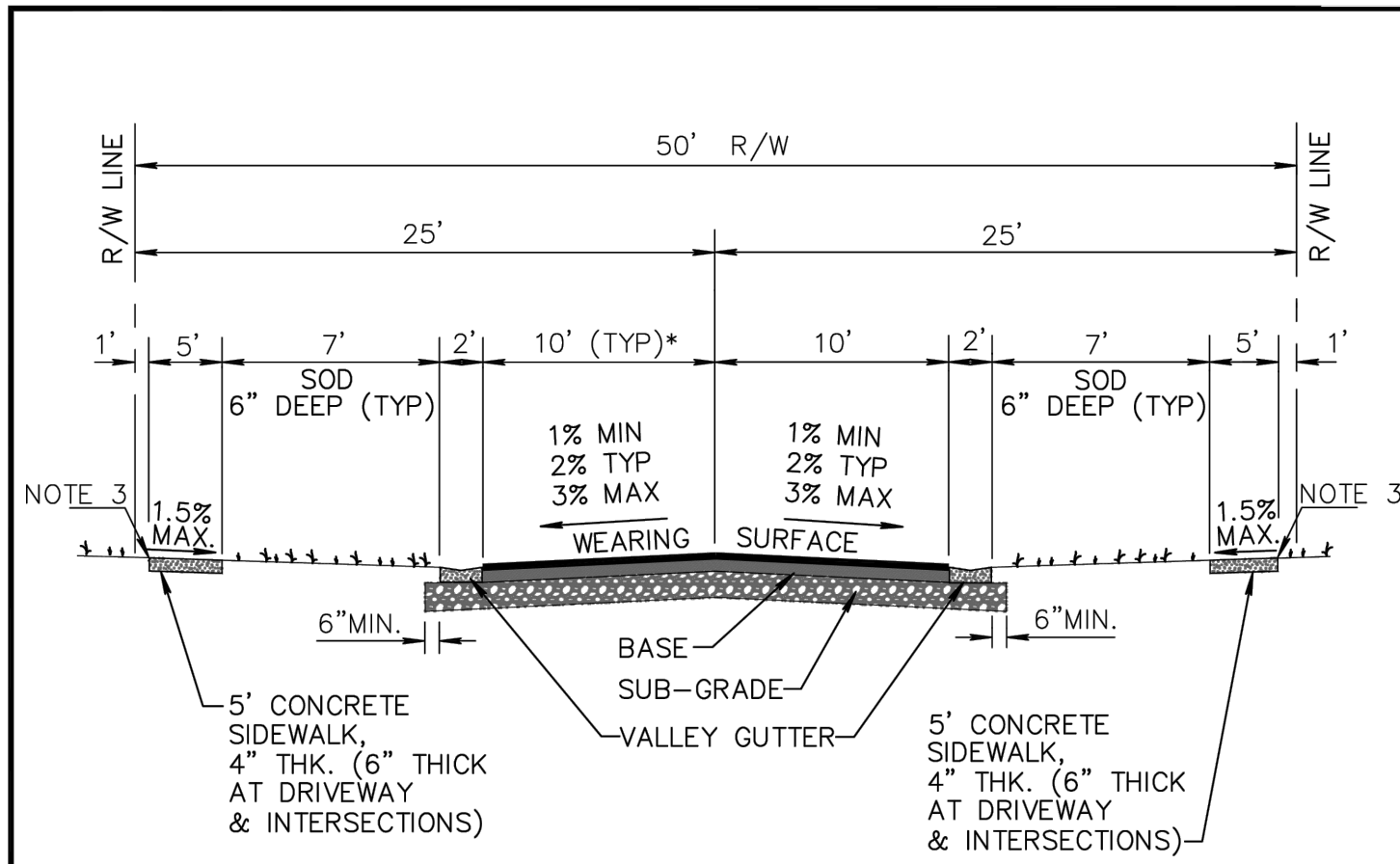
CAULFIELD & WHEELER, INC.
 CIVIL ENGINEERING - SURVEYING
 LANDSCAPE ARCHITECTURE - SUITE 100
 7900 GLADES ROAD - SUITE 100
 BOCA RATON, FLORIDA 33434
 PHONE (561)-392-1981 / FAX (561)-750-1452

**FIFTH AVENUE TOWNHOMES
 PROPOSED TOWNHOMES
 PROPOSED
 PAVEMENT, MARKING & SIGNAGE PLAN
 142 SE 5TH AVE, DELRAY BEACH, FL 33483**

DATE 10/18/23
 DRAWN BY JJB
 F.B./ PG. ----
 SCALE 1" = 10'

MATTHEW V. KAHN
 PROFESSIONAL ENGINEER
 LICENSE NO. 82227
 STATE OF FLORIDA
 - FOR THE FIRM -
 DATE

JOB # 10577
 SHT. NO.
PD-3
 OF 14 SHEETS



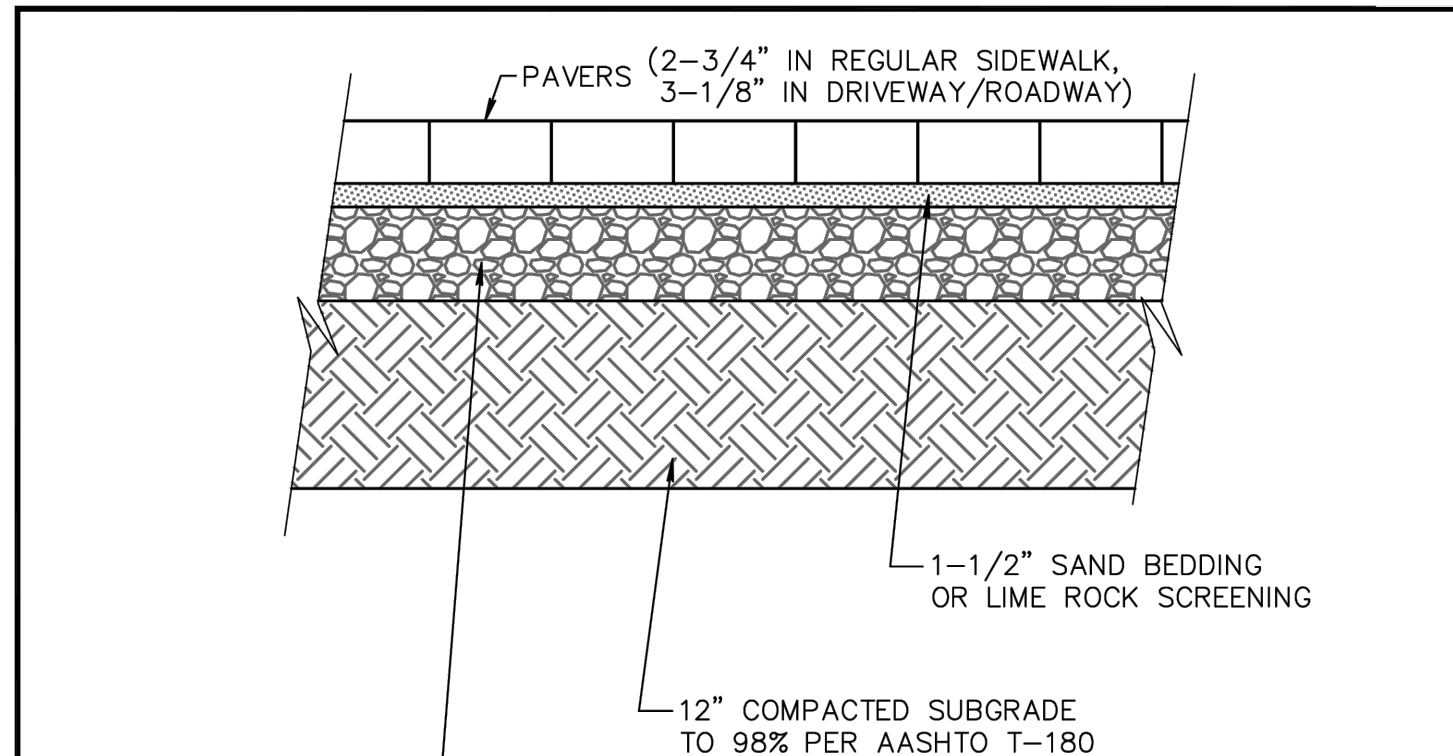
PAVEMENT SPECIFICATIONS	
WEARING SURFACE	3" TYPE S-III (2 LIFTS) AFTER COMPACTION SEE NOTE 2
BASE	8" LIMEROCK OR 10" CRUSHED CONCRETE COMPACTED TO 98% MAX. DENSITY PER AASHTO T-180. PRIME & TACK COAT PER FDOT SECTION 300.
SUBGRADE	12" STABILIZED (75 P.S.I. FBV) AND COMPACTED TO 98% MAX. DENSITY PER AASHTO T-180.

- NOTE:**
- VARIATION FROM MATERIAL SPECIFICATIONS WILL BE CONSIDERED ON A CASE BY CASE BASIS BY THE CITY ENGINEER.
 - 2ND LIFT SHALL NOT BE PAVED UNTIL CONSTRUCTION VEHICLES AND EQUIPMENT HAVE COMPLETED WORK.
 - IN UNDEVELOPED LOCATION, ELEVATION TO BE SET EQUAL TO ROADWAY CROWN. IN PREVIOUSLY DEVELOPED AREAS, MATCH EXISTING GRADES.
- * LANE WIDTHS MUST BE APPROVED BY CITY ENGINEERING PRIOR TO DESIGN.

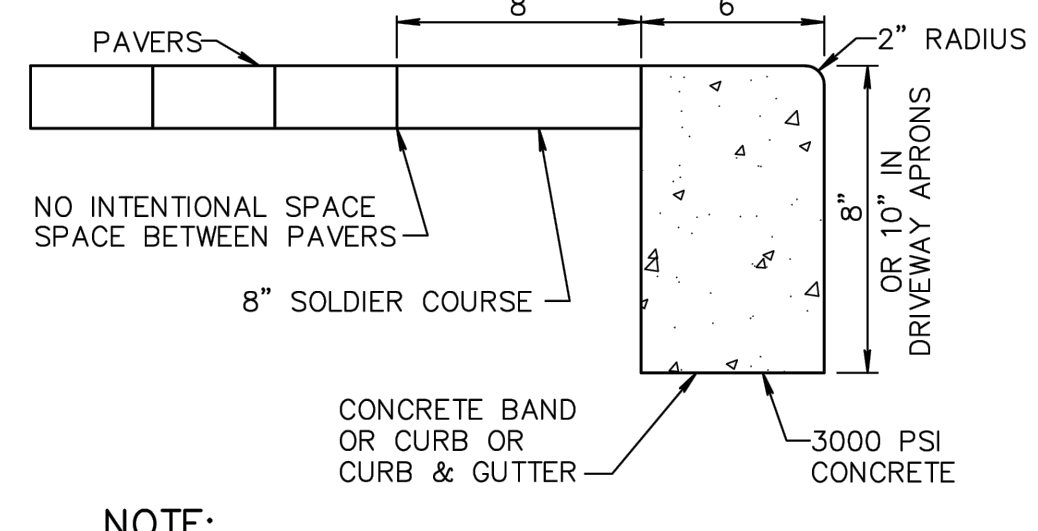
CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444

TYPICAL 50' R/W SECTION WITH VALLEY GUTTER

DATE: 09-15-2021
RT 1.0



- SIDEWALK BASE**
- OUTSIDE RIGHT OF WAY: 4" LIMEROCK BASE COMPACTED TO 98% PER AASHTO T-180.
 - INSIDE RIGHT OF WAY: 6" LIMEROCK BASE COMPACTED TO 98% PER AASHTO T-180 OR 4" FLOW-ABLE FILL (100 P.S.I. MIN.)
- ROADWAY BASE**
LIMEROCK BASE COMPACTED TO 98% PER AASHTO T-180 OR 6" FLOW-ABLE FILL (100 P.S.I. MIN.)

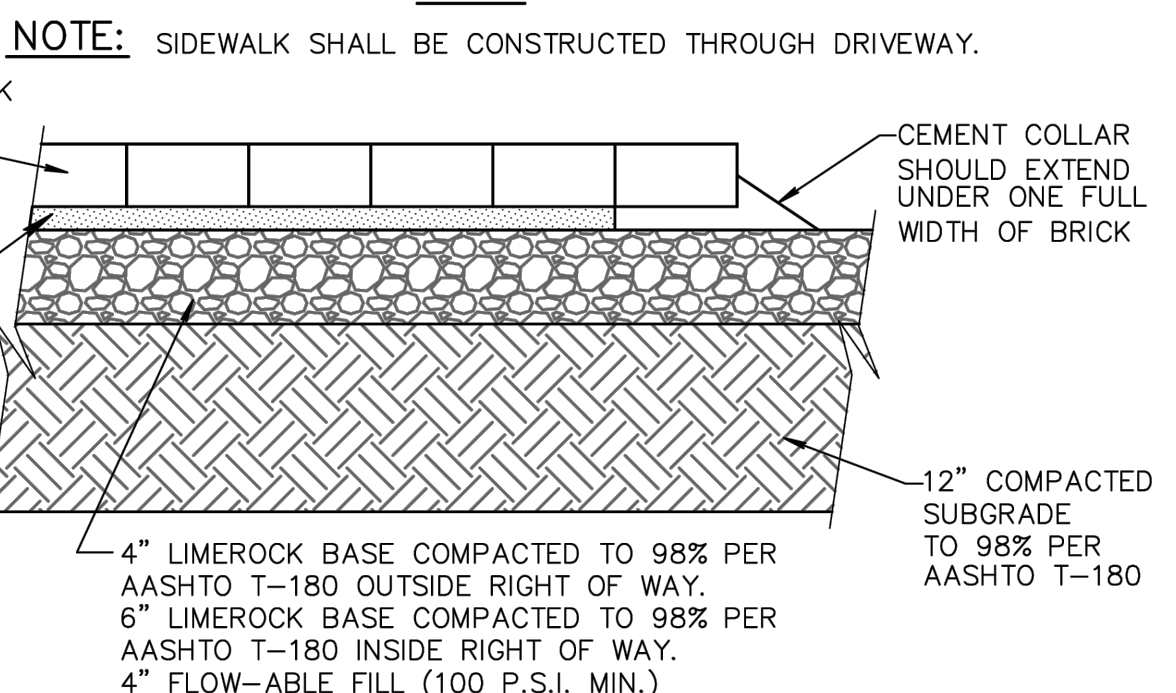
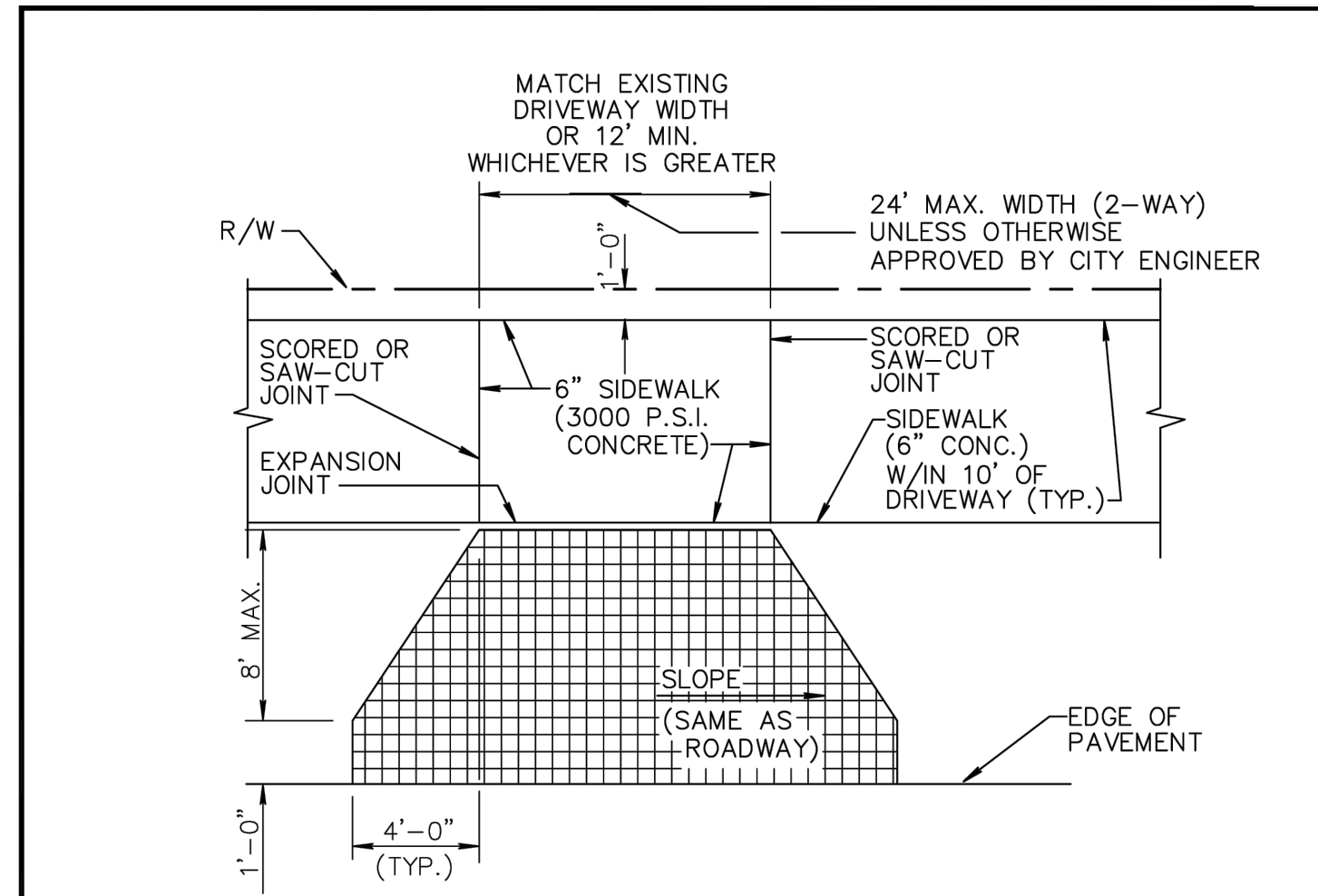


- NOTE:**
IF CITY APPROVES PAVERS TO BE USED IN LIEU OF CONCRETE SIDEWALK, PAVES SHALL BE HOLLAND-STONE, 45" HERRING BONE, RED/CHARCOAL, COLOR MIX #2.

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444

PAVER BRICK SECTION

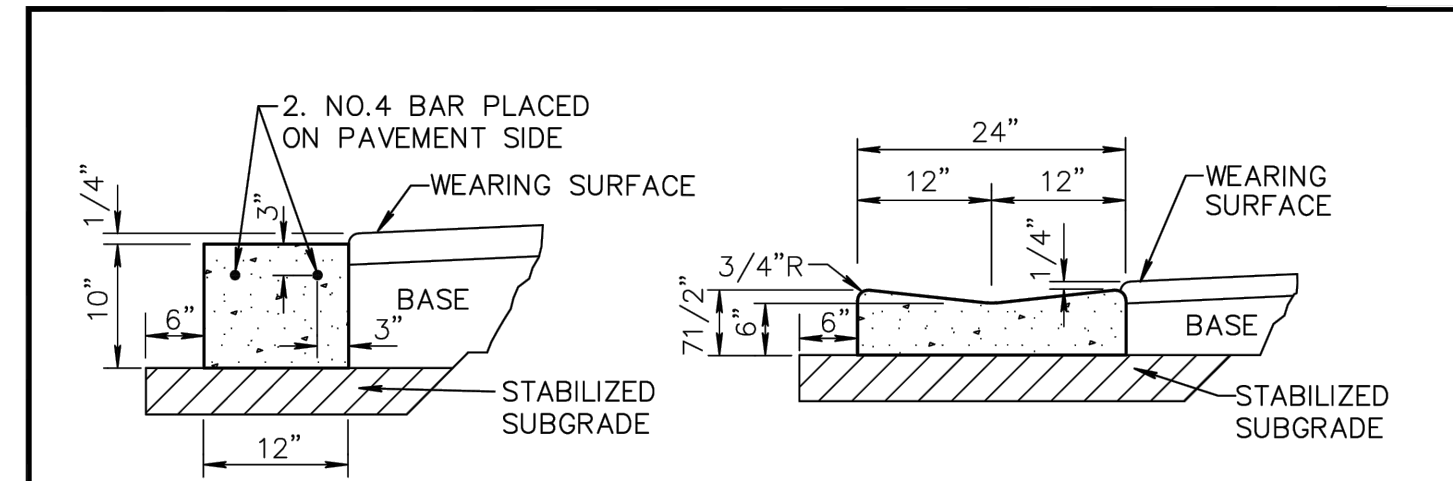
DATE: 09-15-2021
RT 26.0



CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444

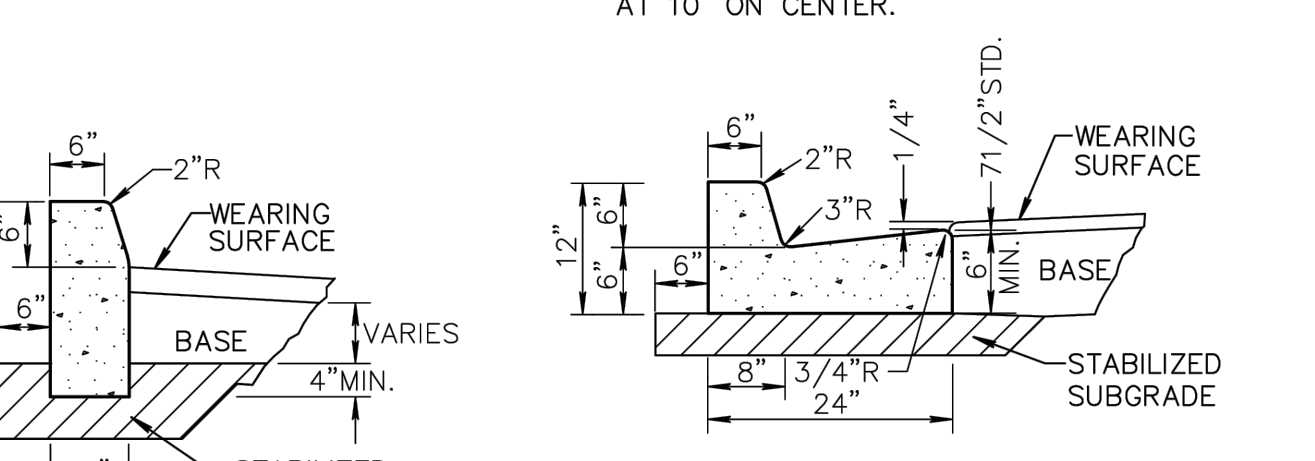
PAVER BRICK DRIVEWAY APRON

DATE: 09-15-2021
RT 28.0



CONCRETE HEADER CURB
NOT TO SCALE

VALLEY GUTTER
NOT TO SCALE



F.D.O.T. TYPE "D" CONCRETE CURB
NOT TO SCALE

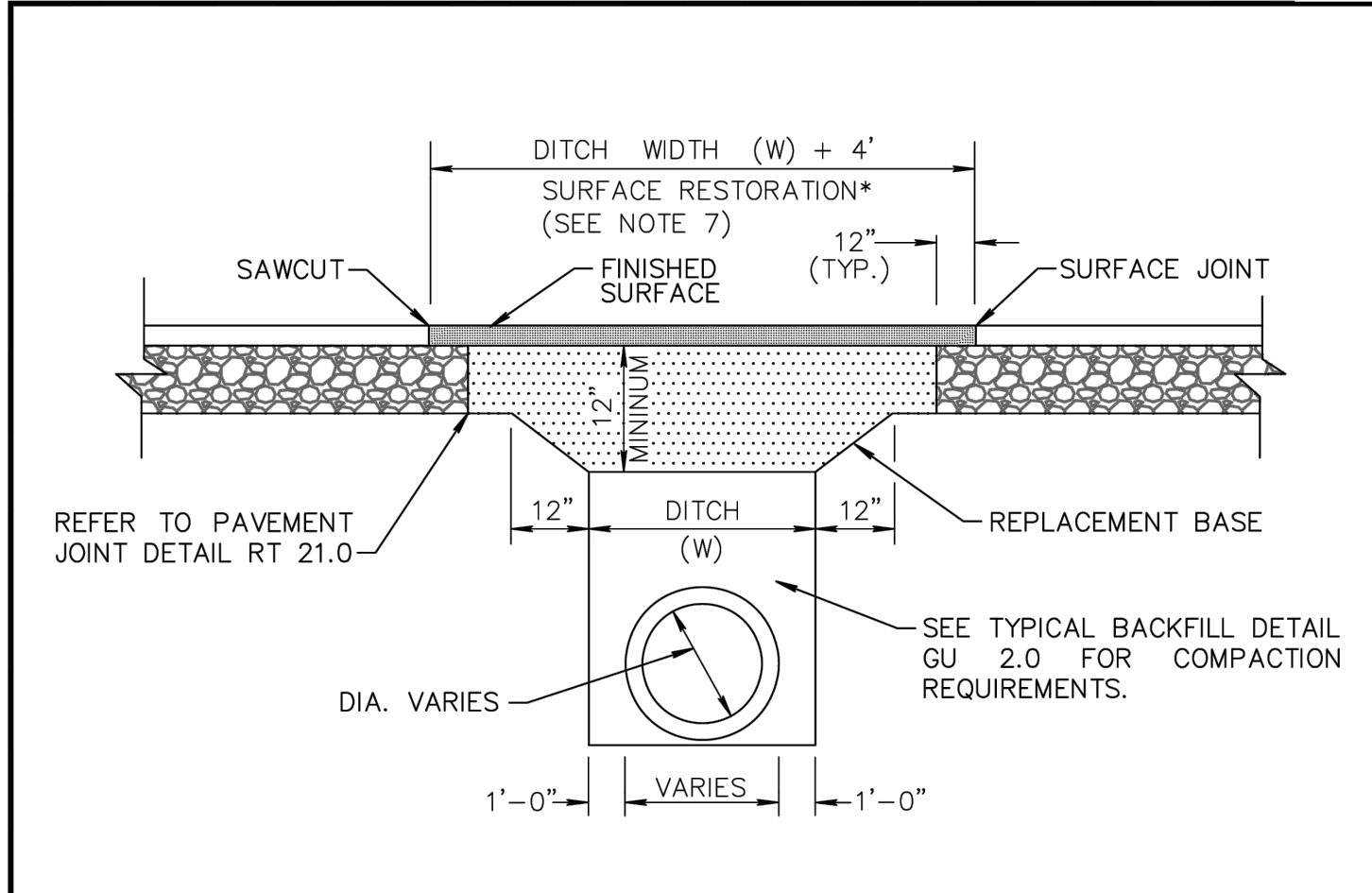
F.D.O.T. TYPE "F" CONCRETE CURB AND GUTTER
NOT TO SCALE

- NOTES:**
- ROADWAY SUBGRADE SHALL IN ALL CASES EXTEND BELOW CURBING.
 - SAWCUTS AT 10' ON CENTER SHALL BE MADE WITHIN 24 HOURS OF CONCRETE PLACEMENT.

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444

CURB AND GUTTER SECTIONS

DATE: 9-15-2021
RT 19.0

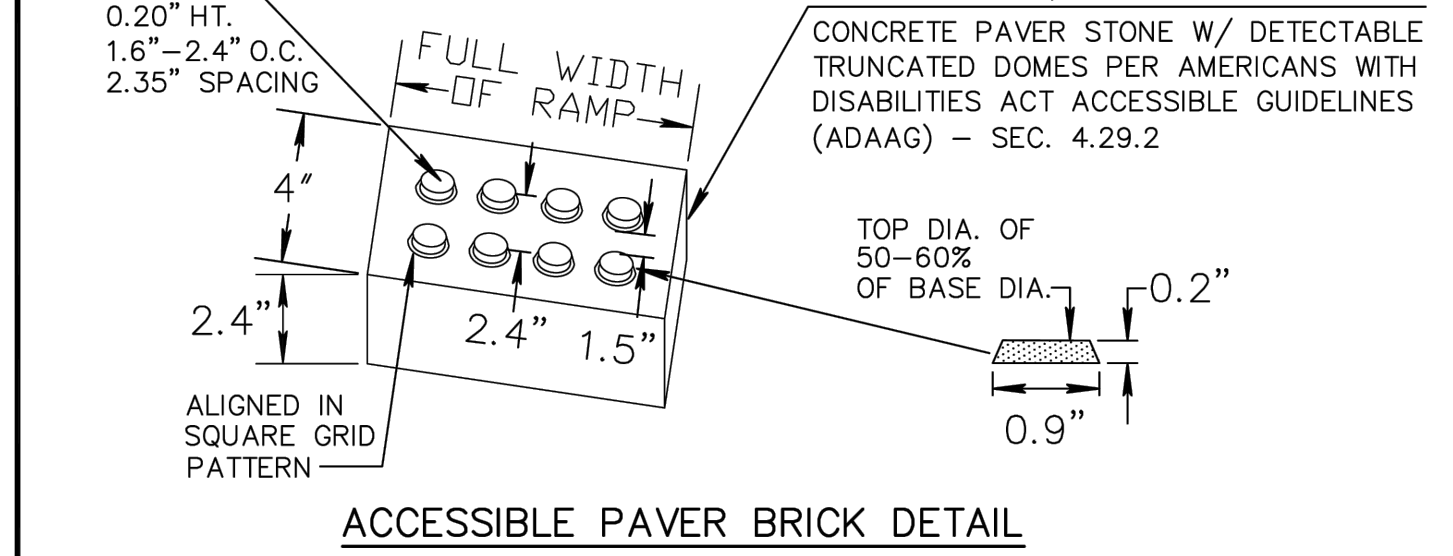
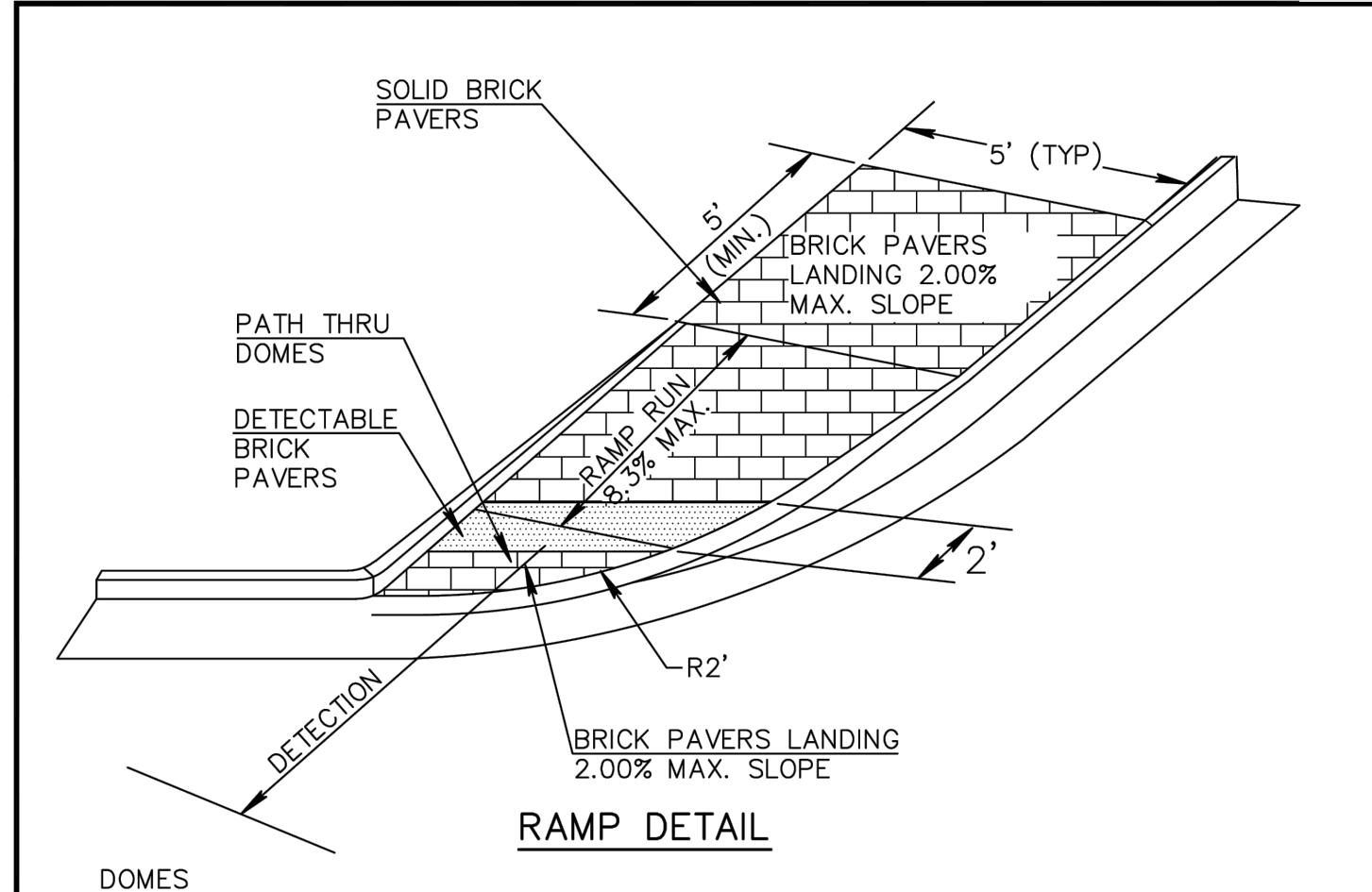


- REPLACEMENT BASE TO BE AT MIN. 12" THICK.
- BASE MATERIAL SHALL BE PLACED IN TWO LIFTS AND EACH LIFT COMPACTED TO 98% MAXIMUM DENSITY PER AASHTO T-180 (MAX. LIFT THICKNESS = 6").
- 24" EXCAVATABLE FLOWABLE FILL MIN. 100 P.S.I. MAY BE USED IN LIEU OF 12" BASE.
- ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED.
- ALL DISTURBED PAVEMENT MARKINGS SHALL BE RESTORED IN ACCORDANCE WITH CITY STANDARDS.
- SURFACE MATERIAL SHALL BE S-III ASPHALTIC CONCRETE (THICKNESS SHOULD BE TWICE THE THICKNESS OF THE ADJACENT EXISTING ASPHALT).
- ANY PAVEMENT CUTS SHALL BE COLD PATCHED AT END OF EACH WORKING DAY TO FACILITATE UNHINDERED TRAFFIC FLOW.
- ROADWAYS SHALL BE MILLED AND RESURFACED 50' IN EACH DIRECTION AT TIME OF PAVEMENT REPAIR THE SURFACE RESTORATION SHALL EXTEND 50' IN EACH DIRECTION.

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444

PAVEMENT REPAIR DETAIL

DATE: 09-15-2021
GU 1.0

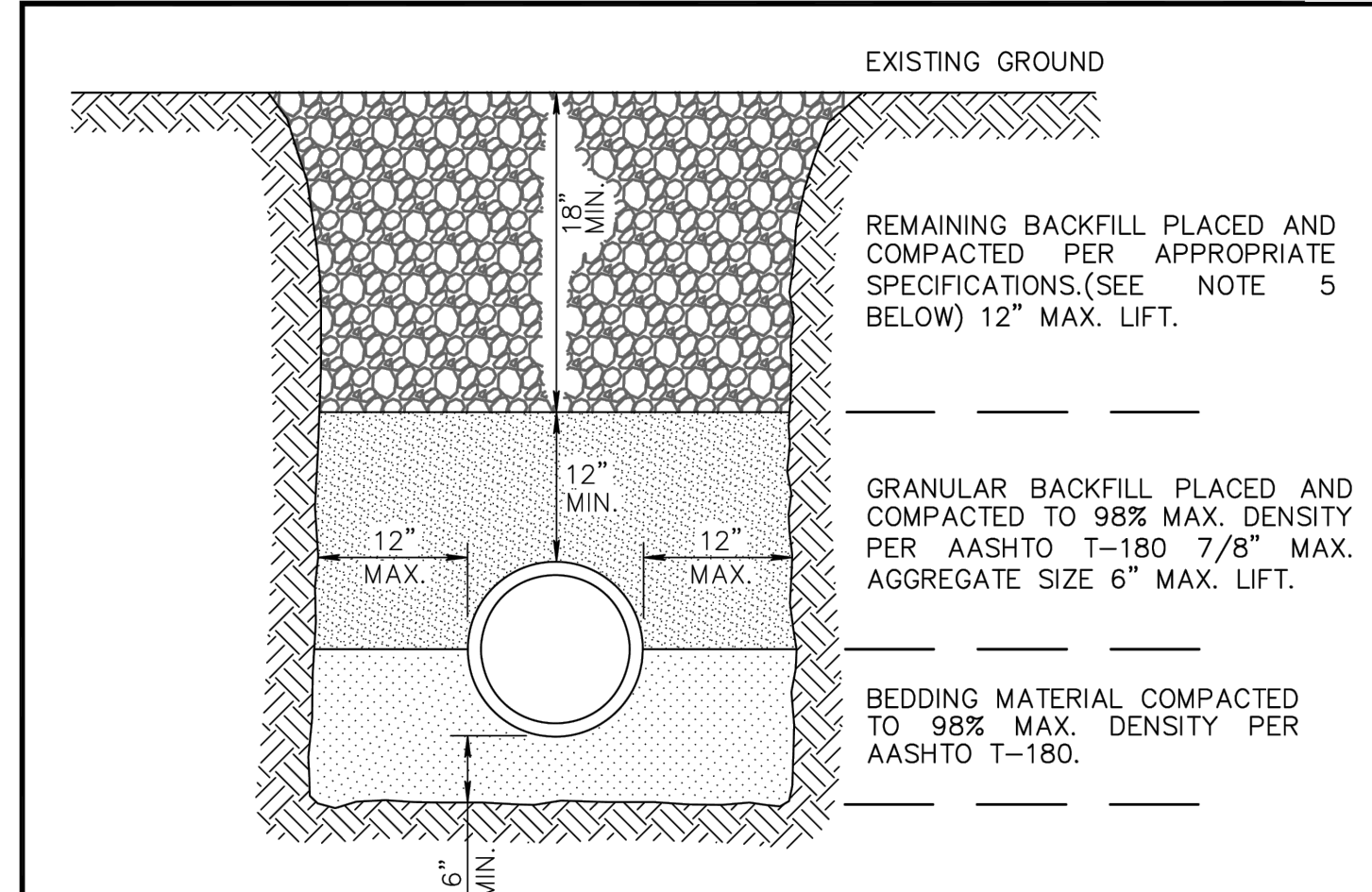


- IN ADDITION TO CURB RAMPS TRUNCATED DOMES ARE REQUIRED AT ALL AREAS OF PERIL. NOT REQUIRED AT RESIDENTIAL DRIVEWAYS CROSSINGS OR CUT-THROUGH REFUGE ISLANDS LESS THAN 6' IN LENGTH.

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444

DETECTABLE WARNING RAMP IN PAVES SIDEWALK TYPICAL DETAIL

DATE: 09-15-2021
RT 29.0

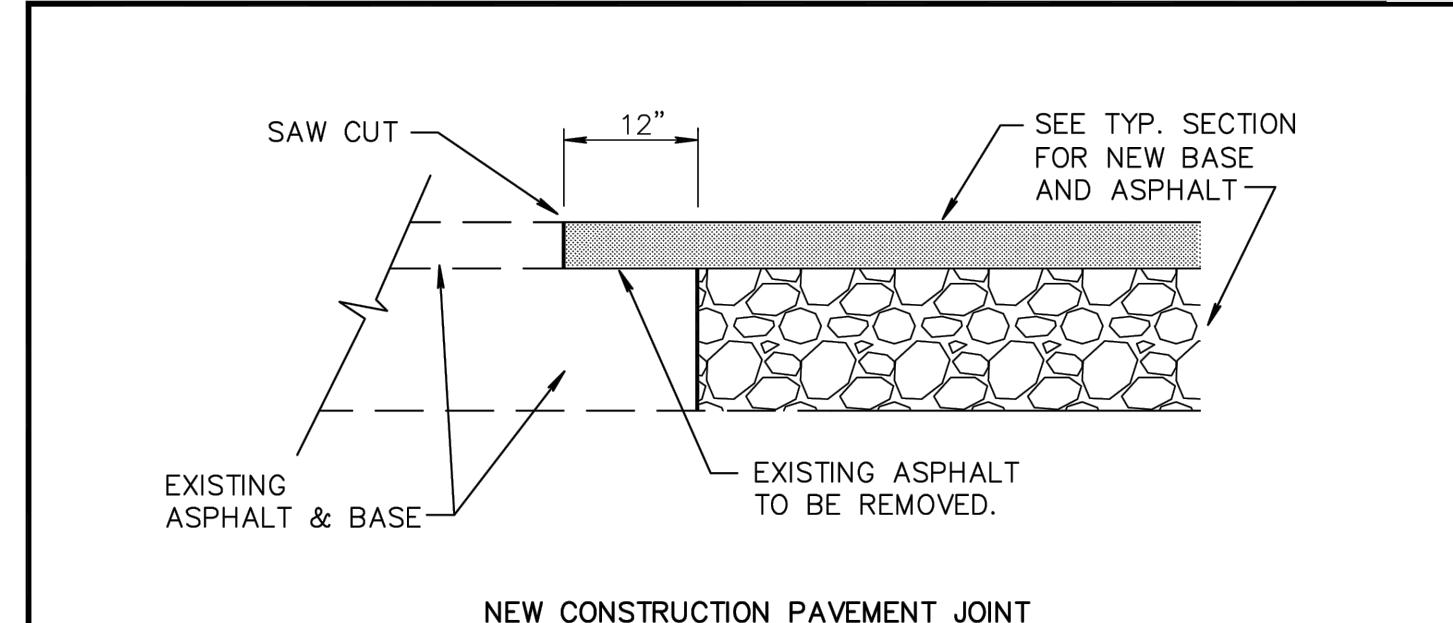


- NOTES:**
- UNSUITABLE IN-SITU MATERIALS SUCH AS MUCK, DEBRIS AND LARGE ROCKS SHALL BE REMOVED OFF SITE AND DISPOSED IN A PROPER LANDFILL; BEDDING MATERIAL AND BACKFILL CONSISTING OF WASHED AND GRADED LIMEROCK 3/8" - 7/8" SIZING.
 - THE PIPE AND/OR STRUCTURE SHALL BE FULLY SUPPORTED FOR ITS ENTIRE LENGTH WITH APPROPRIATE COMPACTION UNDER THE PIPE HAUNCHES.
 - THE PIPE AND/OR STRUCTURE SHALL BE PLACED IN A DRY TRENCH.
 - BACKFILL SHALL BE FREE OF UNSUITABLE MATERIAL SUCH AS LARGE ROCK, MUCK, AND DEBRIS.
 - COMPACT BACKFILL TO 98% DENSITY UNDER PAVEMENT AND TO 95% DENSITY ELSEWHERE. (AASHTO T-180)
 - COMPACTION AND DENSITY TESTS SHALL BE COMPLETED DURING BACKFILL OPERATIONS. CONTRACTORS NOT FOLLOWING THIS PROCEDURE, FOR WHATEVER REASONS, SHALL BE REQUIRED TO RE-EXCAVATE THE AREA IN QUESTION, DOWN TO THE BEDDING MATERIAL, THEN BACKFILL FOLLOWING THE ABOVE PROCEDURES.

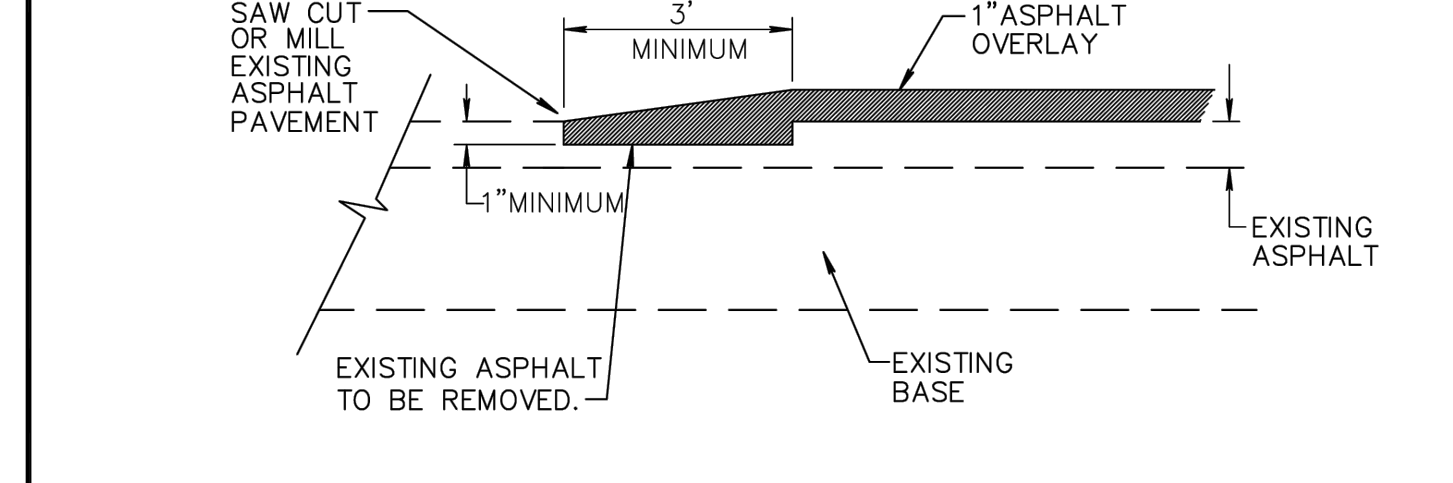
CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444

TYPICAL BACKFILL DETAIL

DATE: 09-15-2021
GU 2.0



- NOTE:**
THIS METHOD OF PAVEMENT JOINT SHALL BE USED FOR ANY APPLICATION OR CONSTRUCTION WHERE PROPOSED PAVEMENT AND BASE WILL BE CONNECTED TO EXISTING PAVEMENT AND BASE.



- NOTE:**
THIS METHOD OF PAVEMENT JOINT SHALL BE USED FOR ANY APPLICATION OR CONSTRUCTION WHERE PROPOSED PAVEMENT WILL BE CONNECTED TO EXISTING PAVEMENT.

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444

PAVEMENT JOINT DETAIL

DATE: 09-15-2021
RT 21.0

REV.	DATE	BY
09/05/24	MVK	JRH
08/29/24	JRH	JRH
07/18/24	JRH	JRH
	DATE	BY

CAULFIELD & WHEELER, INC.
CIVIL ENGINEERING - SURVEYING
LANDSCAPE ARCHITECTURE - SUITE 100
7900 GLADES ROAD - BOCA RATON, FLORIDA 33434
PHONE (561) 392-1991 / FAX (561) 750-1452

**FIFTH AVENUE TOWNHOMES
PROPOSED TOWNHOMES
PROPOSED PAVING,
GRADING & DRAINAGE DETAILS
142 SE 5TH AVE, DELRAY BEACH, FL 33483**

DATE	10/18/23
DRAWN BY	JJB
F.B./PG.	---
SCALE	N/A

MATTHEW V. KAHN
PROFESSIONAL ENGINEER
LICENSE NO. 82227
STATE OF FLORIDA
- FOR THE FIRM -
DATE

JOB # 10577
SHT. NO.
PD-4
OF 14 SHEETS

PAVEMENT MARKING SPECIFICATIONS

All Pavement markings to be installed per these typicals, plans and specifications, and as directed by the City Engineer and shall conform to the requirements of F.D.O.T. and the manual on uniform traffic control devices, (MUTCD).

PERMANENT MARKINGS

- Installation:
- All markings shall be installed by the extruded method.
 - Markings shall be free of weaves, bows, drips, drags, and other degrading items.
 - Chalk shall be used for all layout markings
- Materials:
- All materials shall be alkyd or hydrocarbon thermoplastic meeting all FDOT specifications.
- Thickness:
- All markings shall be installed to yield 90 mils of material measured above the pavement surface.
- Spheres:
- Reflective glass spheres are to be applied to all stripes and markings per FDOT specifications.
- Alternate Material:
- STAYMARK marking tape, or equivalent may be used, as approved or directed by the City Engineer.
- Layout:
- Layout shall be made using marking chalk.
 - It is recommended that marking layout be inspected by the City Engineer prior to the placement of final markings.

TEMPORARY MARKINGS

- Temporary markings may be used only as specified in this section, or as approved or directed by the City Engineer.
- Final Pavement Surface:
- Only foil backed marking tape is allowed.
 - All tape shall be totally removed concurrent with permanent marking placement.
- Other Pavement Surfaces:
- Intermediate pavement surfaces may be marked with FDOT approved materials, designs, and specifications.

ALL PAVEMENT MARKINGS

All paved surfaces shall be properly marked prior to the hours of darkness.

RAISED PAVEMENT MARKERS

- R.P.M.s shall be installed on all lane lines and centerlines, spaced at 20' or 40'.
- R.P.M.s shall be a 4 x 4 type class "B" marker meeting F.D.O.T. specifications and shall be approved by the City Engineer prior to use.
- R.P.M.'s shall be installed using alkyd thermoplastic on asphalt and epoxy on concrete.

OTHER NOTES

- All Materials within right-of-way shall be thermoplastic and per F.D.O.T. specifications.
- Pavement marking within private parking lots may be painted according to F.D.O.T. specifications, except for all stop bars adjacent to public right-of-way.

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
404 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444

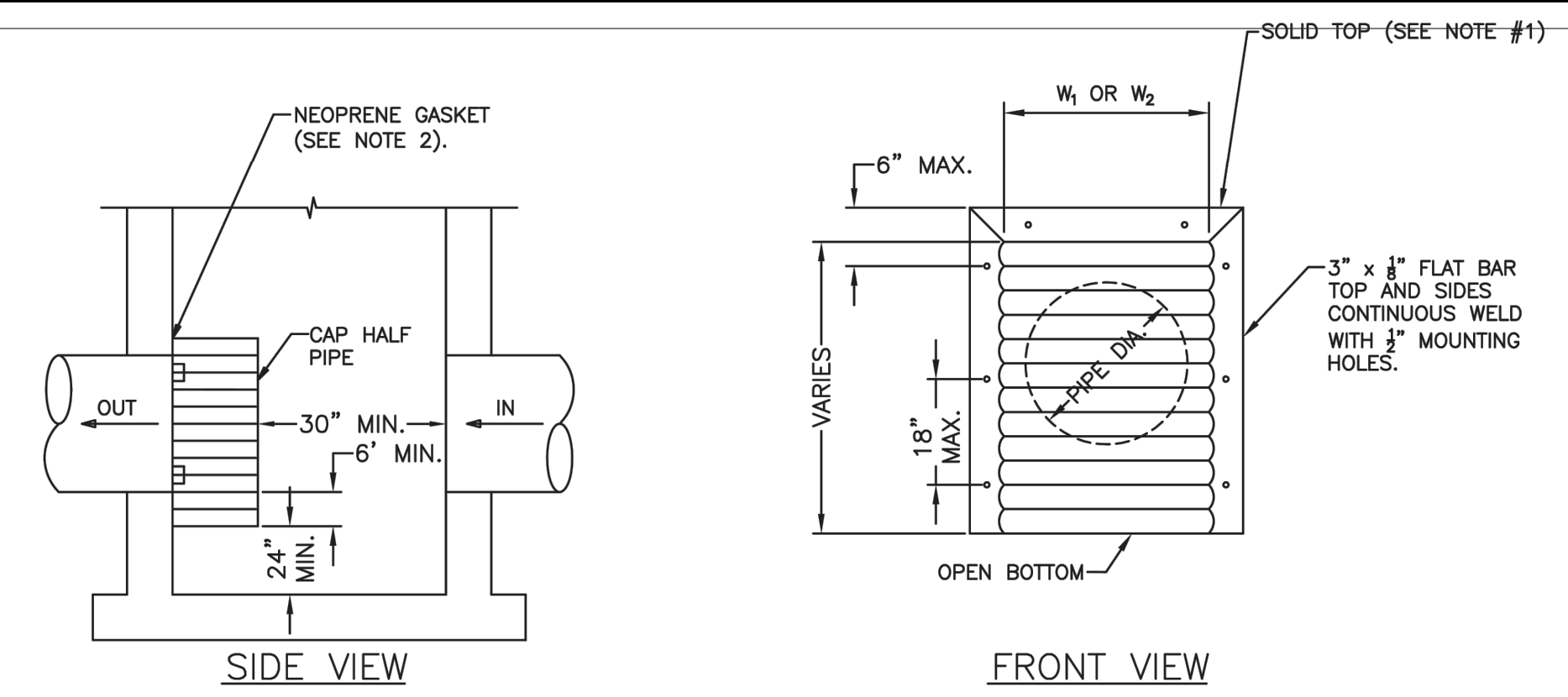
PAVEMENT MARKING SPECIFICATIONS
(SHEET 1 OF 2)

DATE: 09-15-2021
RT 22.0

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
404 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444

PAVEMENT MARKING SPECIFICATIONS
(SHEET 2 OF 2)

DATE: 09-15-2021
RT 22.1

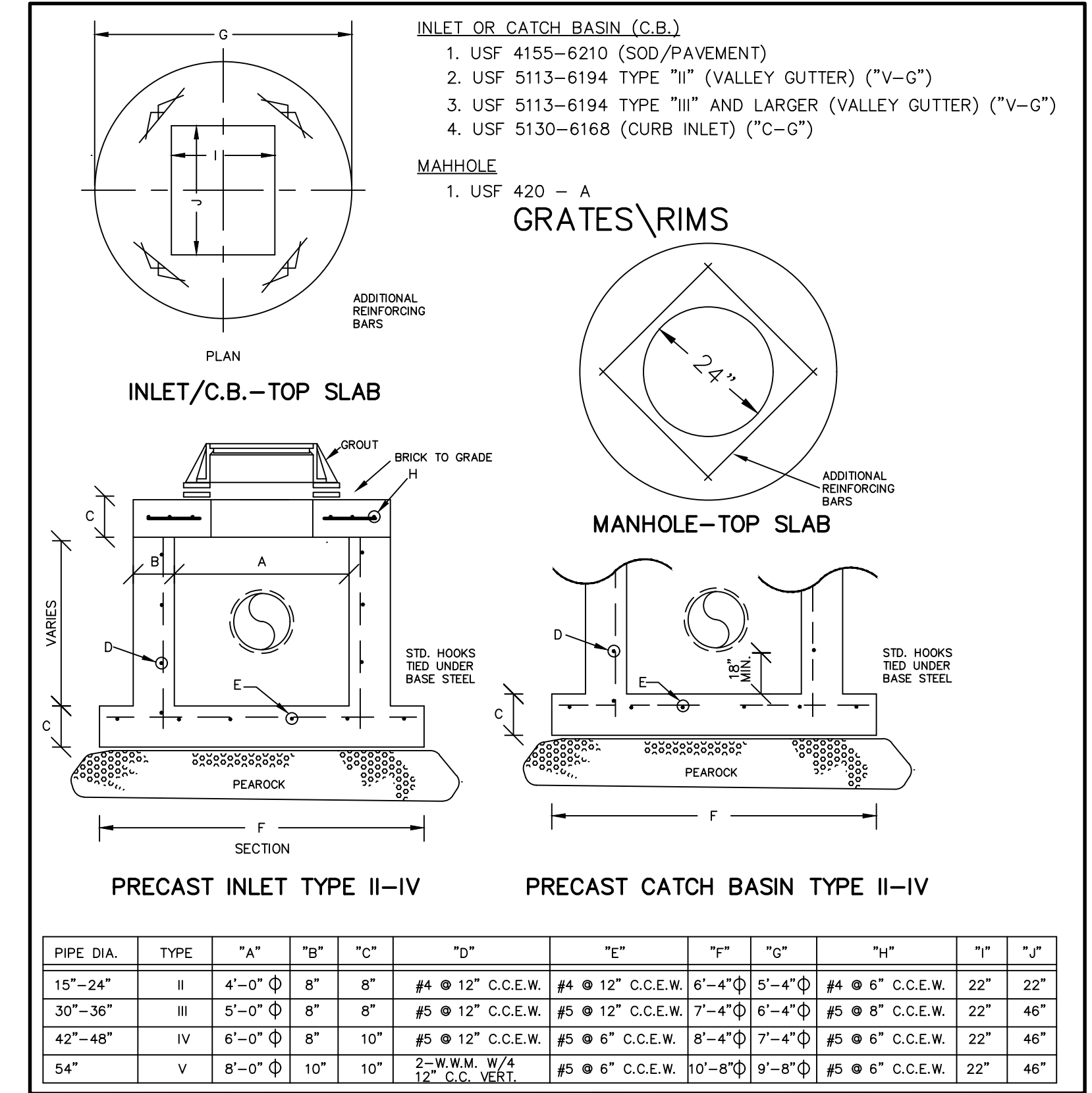
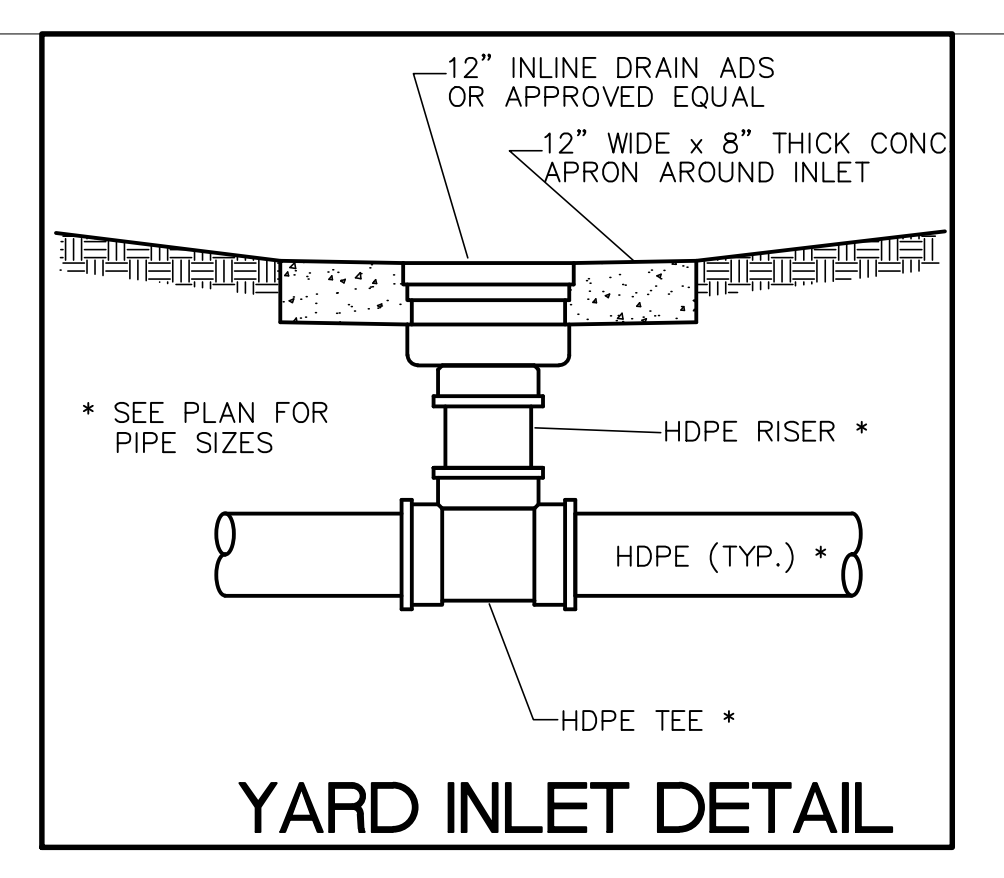


POLLUTANT RETARDANT BAFFLE DETAIL N.T.S.

DISCHARGE PIPE DIAMETER	WEIR DIAMETER (W ₁)	WEIR DIAMETER (W ₂)	GAUGE (T)
15"	21"	21"	16
18"	24"	24"	16
24"	30"	36"	16
30"	36"	42"	14
36"	42"	48"	14
42"	48"	54"	14
48"	54"	60"	14
54"	60"	66"	14

NOTES:

1. ALUMINUM SHEET OF SAME THICKNESS (GAUGE) AS PIPE SHALL BE WELDED TO CLOSE THE OPENING AT THE TOP.
2. NEOPRENE ADHESIVE BACKED GASKET, OR APPROVED EQUAL (1"x3") SHALL BE INSTALLED ON THE SIDES AND TOP OF ALL BAFFLES.
3. POLLUTION RETARDANT BAFFLE TO BE FASTENED IN PLACE WITH 3/8"x4" STAINLESS STEEL "RED HEADS," OR APPROVED EQUAL.
4. MOUNTING BRACKETS MAY BE ADDED TO FLAT BARS TO EASE INSTALLATION IN ROUND STRUCTURES. SPACING TO MATCH HOLES IN FLAT BARS.



REV	DATE	BY
09/05/24	MVK	
08/29/24	JRH	
07/18/24	JRH	
DATE	DATE	BY
FILE NAME: 10577ENG.dwg		

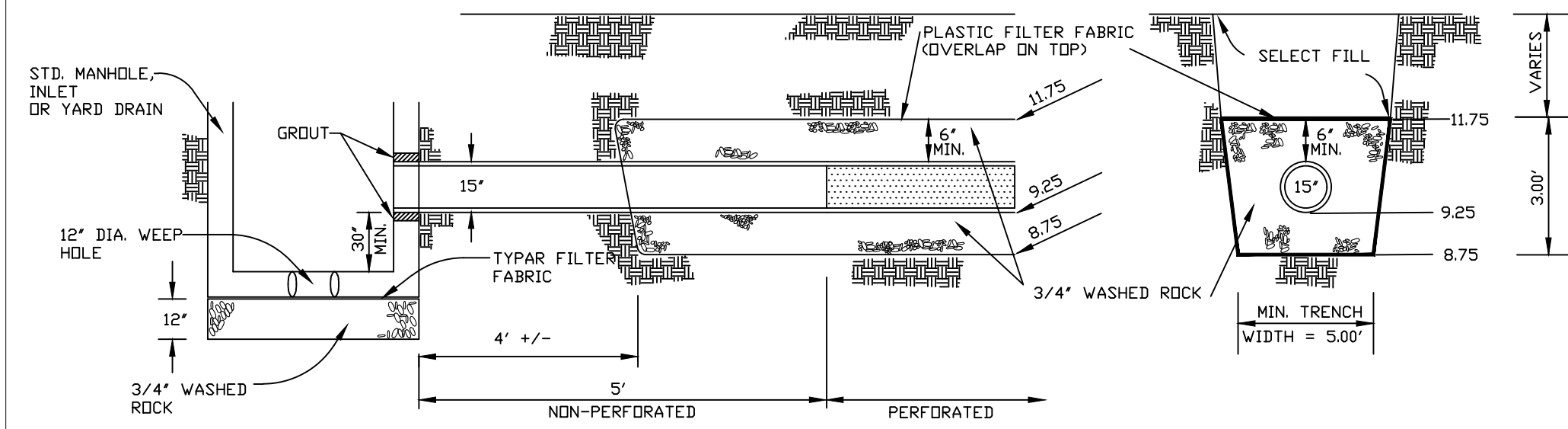
CAULFIELD & WHEELER, INC.
CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE - SURVEYING
7900 GLADES ROAD - SUITE 100
BOCA RATON, FLORIDA 33434
PHONE (561) 392-1991 / FAX (561) 750-1452

FIFTH AVENUE TOWNHOMES
PROPOSED TOWNHOMES
PROPOSED PAVING,
GRADING & DRAINAGE DETAILS
142 SE 5TH AVE, DELRAY BEACH, FL 33483

DATE	10/18/23
DRAWN BY	JJB
F.B. / PG.	---
SCALE	N/A

MATTHEW V. KAHN
PROFESSIONAL ENGINEER
LICENSE NO. 82227
STATE OF FLORIDA
- FOR THE FIRM -
DATE

JOB # 10577
SHT. NO.
PD-5
OF 14 SHEETS



LONGITUDINAL VIEW

CROSS - SECTION

NOTES:

1. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT CONTAMINATION OF THE TRENCH BY SAND, SILT, OR OTHER MATERIAL.
2. THE CONTRACTOR SHALL INSTALL
 - A. PERFORATED RCP IN ACCORDANCE WITH F.D.D.T. REQUIREMENTS.
 - B. 'HP STORM' IN ACCORDANCE WITH F.D.D.T. REQUIREMENTS.
3. NO PIPE PERFORATIONS FOR THE FIRST 5 FEET FROM THE INLET OR MANHOLE.
4. PIPE PERFORATIONS SHALL BE PER FDDT REQUIREMENTS
5. SEE DETAILS OF MANHOLE AND/OR INLET FOR CONSTRUCTION DETAILS OF SAME.
6. PLASTIC FILTER FABRIC SHALL CONFORM TO D.D.T. SECTION 985 OR APPROVED EQUAL.
7. PRIOR TO BACKFILLING ANY DRAINAGE STRUCTURES, THE CITY ENGINEERING DEPARTMENT SHALL BE GIVEN 24 HOURS NOTICE IN ORDER TO SCHEDULE AN INSPECTION OF THE FACILITY.

FRENCH DRAIN DETAIL

N.T.S.

REV PER CITY COMMENTS	09/05/24	MVK	BY
REV PER CITY COMMENTS	08/29/24	JRH	DATE
REV PER CITY COMMENTS	07/18/24	JRH	
REVISIONS			
FILE NAME	10577-ENG.dwg		

CAULFIELD & WHEELER, INC.
 CIVIL ENGINEERING
 LANDSCAPE ARCHITECTURE - SURVEYING
 7900 GLADES ROAD - SUITE 100
 BOCA RATON, FLORIDA 33434
 PHONE (561) 392-1991 / FAX (561) 750-1452

**FIFTH AVENUE TOWNHOMES
 PROPOSED TOWNHOMES
 PROPOSED PAVING,
 GRADING & DRAINAGE DETAILS
 142 SE 5TH AVE, DELRAY BEACH, FL 33483**

DATE	10/18/23
DRAWN BY	JJB
F.B. / PG.	---
SCALE	N/A

MATTHEW V. KAHN
 PROFESSIONAL ENGINEER
 LICENSE NO. 82227
 STATE OF FLORIDA
 - FOR THE FIRM -
 DATE

JOB # 10577
 SH1.N0.
PD-6
 OF 14 SHEETS

Drawn By: P:\10577-00-00\Drawings\Kahn\10577DETAILS-FPD_DETAILED-FPD_DETAILED.dwg

NOTE: CONTRACTOR IS REQUIRED TO ASBUILT WATER, SEWER, DRAINAGE AND FINAL GRADING ELEVATIONS PER THE REQUIREMENTS OF FDOT/CITY OF DELRAY BEACH



NOTE: WM SIZES SHALL BE DESIGNED BY E.O.R. AND SHALL BE CHECKED AND AUTHORIZED BY THE CITY OF DELRAY BEACH UTILITIES DIVISION

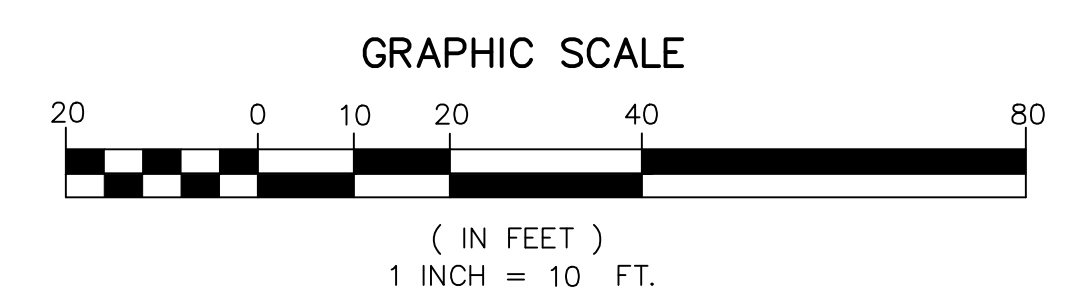
LEGEND

- EX. PROPERTY/ROW LINE
 - - - PROP. PROPERTY/ROW LINE
 - PLATTED EAST LINE
 - PROPOSED DRAINAGE PIPE
 - PROPOSED YARD DRAIN
 - EXISTING GRADE
 - PROPOSED GRADE
 - MATCH EXISTING GRADE
 - W --- PROPOSED WATER LINE
 - W --- EXISTING WATER LINE
 - S --- PROPOSED SANITARY SEWER LINE
 - S --- EXISTING SANITARY SEWER LINE
 - E --- PROPOSED ELECTRIC LINE
 - OH --- EXISTING OVERHEAD LINE
 - T --- PROPOSED TELEPHONE/CABLE LINE
 - T --- EXISTING TELEPHONE/CABLE LINE
 - G --- PROPOSED GAS LINE
 - G --- EXISTING GAS LINE
-
- [Hatched Box] PROPOSED BUILDING
 - [Dotted Box] PROPOSED ASPHALT REPLACEMENT (SEE DETAIL RT 1.0)
 - [Cross-hatched Box] PROPOSED ROW BRICK WALK (SEE DETAIL RT 26.0)
 - [Grid Pattern Box] PROPOSED ONSITE PEDESTRIAN PAVERS (SEE ARCH PLANS FOR DETAILS)
 - [Horizontal Line Pattern Box] PROPOSED PAVER DRIVEWAY (SEE DETAIL RT 28.0)
 - [Stippled Box] PROPOSED TURF (SEE ARCH PLANS FOR DETAILS)
 - [White Box] PROPOSED 1" ASPHALT MILL/OVERLAY
 - [Circle with X] PROPOSED LIGHT POLE (SEE LANDSCAPE PLANS FOR DETAILS)
 - [Circle with X] PROPOSED BOLLARD LIGHT (SEE LANDSCAPE PLANS FOR DETAILS)

FDOT OPEN CUT RESTORATION REQUIREMENTS:

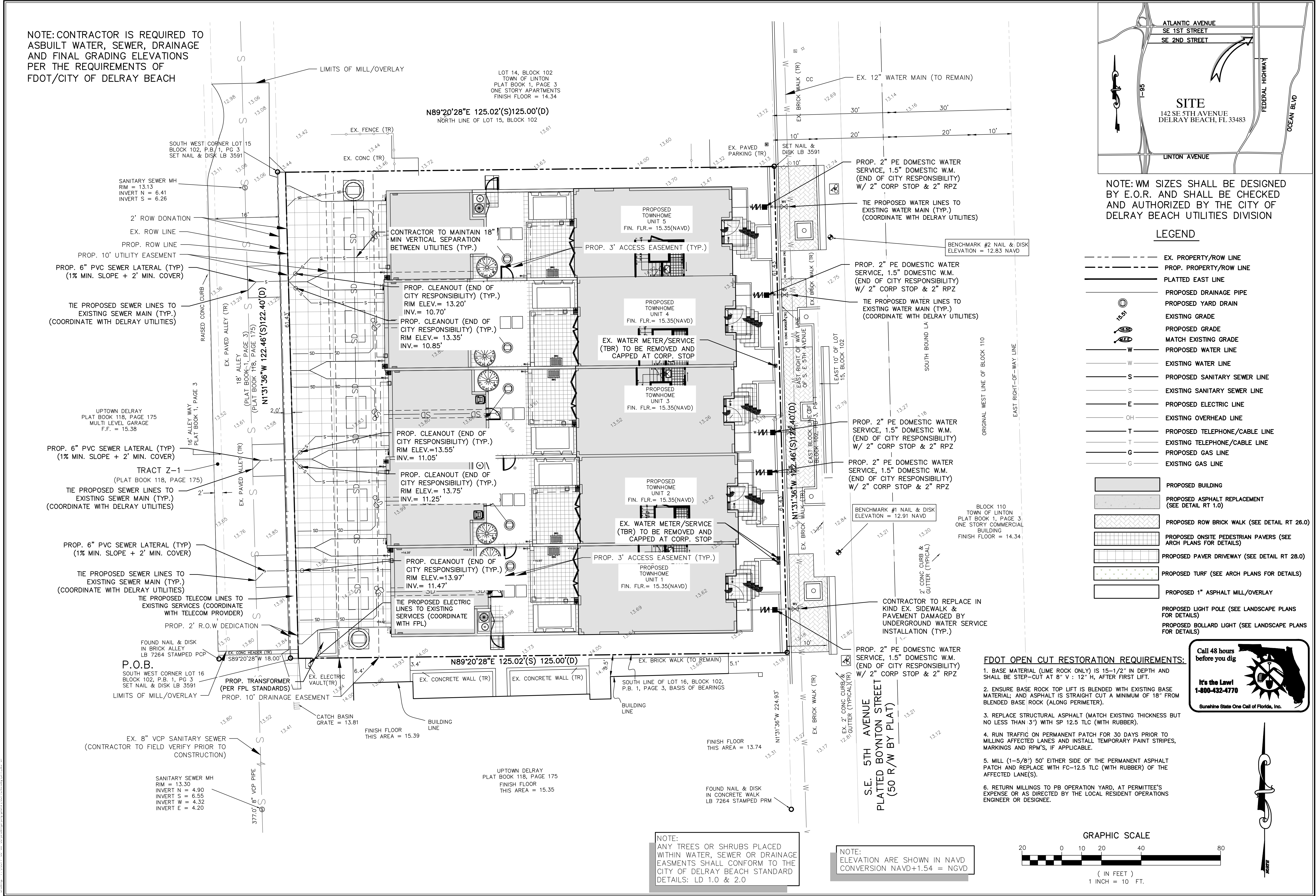
1. BASE MATERIAL (LIME ROCK ONLY) IS 15-1/2" IN DEPTH AND SHALL BE STEP-CUT AT 8" V : 12" H, AFTER FIRST LIFT.
2. ENSURE BASE ROCK TOP LIFT IS BLENDED WITH EXISTING BASE MATERIAL; AND ASPHALT IS STRAIGHT CUT A MINIMUM OF 18" FROM BLENDED BASE ROCK (ALONG PERIMETER).
3. REPLACE STRUCTURAL ASPHALT (MATCH EXISTING THICKNESS BUT NO LESS THAN 3") WITH SP 12.5 TLC (WITH RUBBER).
4. RUN TRAFFIC ON PERMANENT PATCH FOR 30 DAYS PRIOR TO MILLING AFFECTED LANES AND INSTALL TEMPORARY PAINT STRIPES, MARKINGS AND RPM'S, IF APPLICABLE.
5. MILL (1-5/8") 50' EITHER SIDE OF THE PERMANENT ASPHALT PATCH AND REPLACE WITH FC-12.5 TLC (WITH RUBBER) OF THE AFFECTED LANE(S).
6. RETURN MILLINGS TO PB OPERATION YARD, AT PERMITTEE'S EXPENSE OR AS DIRECTED BY THE LOCAL RESIDENT OPERATIONS ENGINEER OR DESIGNEE.

Call 48 hours before you dig
It's the Law!
 1-800-432-4770
 Sunshine State One Call of Florida, Inc.



NOTE:
 ANY TREES OR SHRUBS PLACED WITHIN WATER, SEWER OR DRAINAGE EASEMENTS SHALL CONFORM TO THE CITY OF DELRAY BEACH STANDARD DETAILS: LD 1.0 & 2.0

NOTE:
 ELEVATION ARE SHOWN IN NAVD CONVERSION NAVD+1.54 = NGVD



REV.	PER.	CITY COMMENTS	DATE
09/05/24	MVK		
08/29/24	JRH		
07/18/24	JRH		
		REVISIONS	
		FILE NAME: 105776.dwg	

CAULFIELD & WHEELER, INC.
 CIVIL ENGINEERING
 LANDSCAPE ARCHITECTURE - SURVEYING
 7900 GLADES ROAD - SUITE 100
 BOCA RATON, FLORIDA 33434
 PHONE: (561)-392-1981 / FAX: (561)-750-1452

FIFTH AVENUE TOWNHOMES
 PROPOSED TOWNHOMES
 PROPOSED WATER DISTRIBUTION,
 SANITARY SEWER & UTILITY PLAN
 142 SE 5TH AVE, DELRAY BEACH, FL 33483

DATE	10/18/23
DRAWN BY	JJB
F.B./ PG.	----
SCALE	1" = 10'

MATTHEW V. KAHN
 PROFESSIONAL ENGINEER
 LICENSE NO. 82227
 STATE OF FLORIDA
 - FOR THE FIRM -
 DATE

JOB #	10577
SHT. NO.	WS-1
OF 14 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 COVER.
- DUCTILE IRON PIPE (DIP) FOR FORCE MAINS SHALL BE CLASS 350 WITH 401 EPOXY LINING IN ACCORDANCE WITH AWWA C550.
- 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:

$$L = \frac{SD\sqrt{P}}{148,000}$$

WHERE:
 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.
- 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.
- LINE STOPS SHALL BE INSTALLED A MINIMUM OF 3 PIPE LENGTHS FROM LOCATION OF PIPE REMOVED AND PROVIDE NECESSARY JOINT RESTRAINTS.

CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 404 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
 PRESSURE PIPE NOTES PP 1.0 DATE: 09-15-2021

MINIMUM LENGTHS OF PIPE (FT) TO BE RESTRAINED

FITTING TYPE	PIPE SIZE								
	4"	6"	8"	10"	12"	16"	20"	24"	
90° HORIZ. BEND	14	20	25	30	35	45	54	62	
45° HORIZ. BEND	6	8	11	13	15	19	22	26	
22.5° HORIZ. BEND	3	4	5	6	7	9	11	12	
11.25° HORIZ. BEND	1	2	3	3	4	4	5	6	
90° VERT. OFFSET	UPPER BEND	55	79	103	125	147	189	228	266
	LOWER BEND	22	38	49	59	69	88	106	123
45° VERT. OFFSET	UPPER BEND	22	32	42	51	60	77	93	109
	LOWER BEND	10	14	19	23	28	35	43	50
22.5° VERT. OFFSET	UPPER BEND	7	12	17	21	26	34	42	49
	LOWER BEND	2	4	6	8	10	14	17	21
11.25° VERT. OFFSET	UPPER BEND	3	4	6	9	11	15	19	22
	LOWER BEND	1	1	1	2	3	5	7	8
PLUG (DEAD END)	32	45	59	70	83	107	129	151	
INLINE VALVE	32	45	59	70	83	107	129	151	
TEE (BRANCH RESTRAINT)	4" X Ø"	23							
	6" X Ø"	21	35						
	8" X Ø"	18	34	47					
	10" X Ø"	16	32	46	58				
	12" X Ø"	13	30	44	57	69			
	16" X Ø"	7	26	41	55	67	90		
REDUCER (LARGER PIPE RESTRAINT)	20" X Ø"	1	21	38	52	65	88	109	
	24" X Ø"	1	16	34	49	62	86	108	
	6" X Ø"	23							
	8" X Ø"	38	25						
	10" X Ø"	57	43	24					
	12" X Ø"	72	60	44	41				
REDUCER (LARGER PIPE 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	
	24" X Ø"	146	140	132	131	111	82	45	

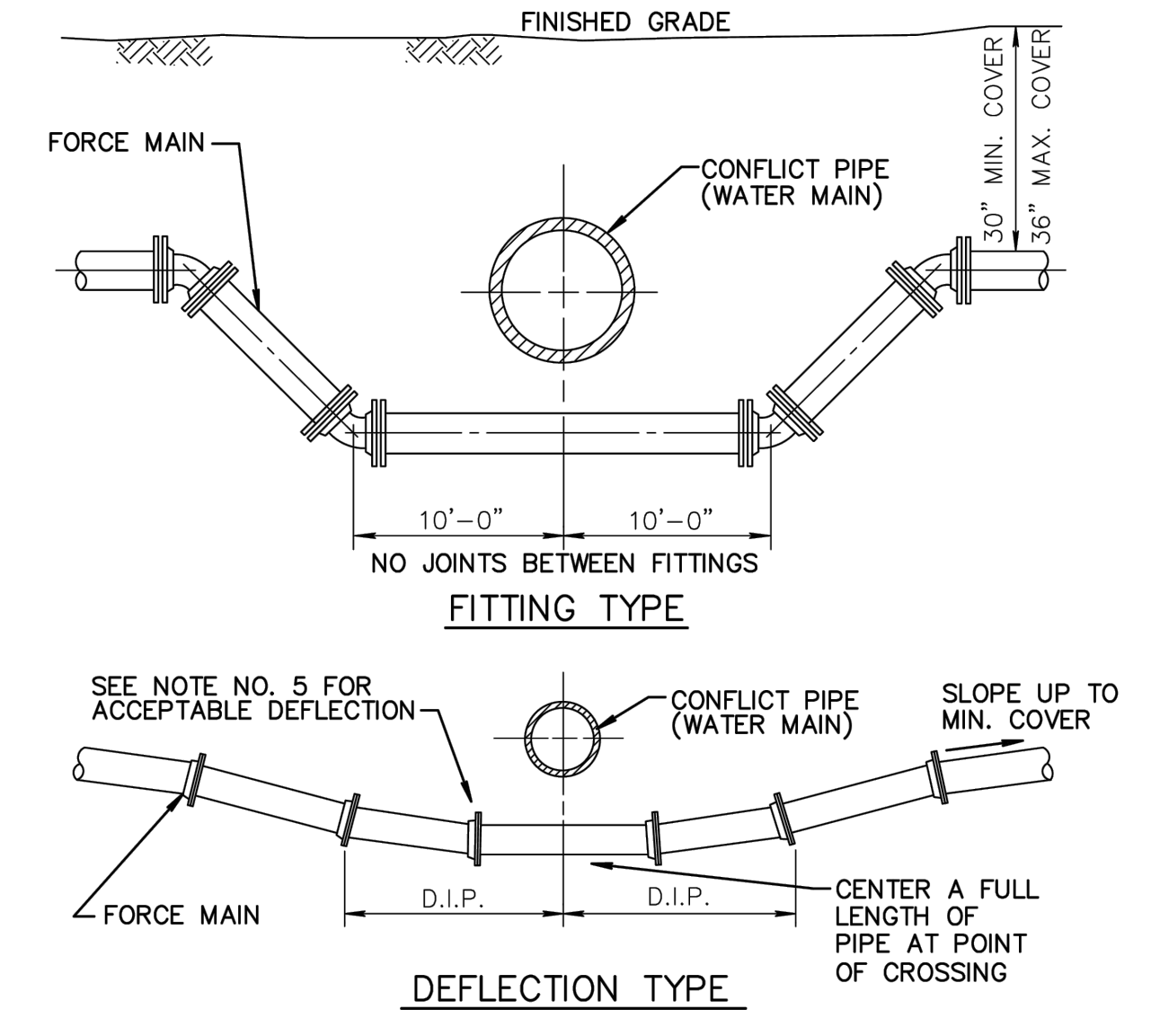
RESTRAIN PIPE ONE BELL PAST MINIMUM DISTANCE

CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 404 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
 PIPE RESTRAINT TABLE PRESSURE PIPE (SHEET 1 OF 2) PP 2.0 DATE: 09-15-2021

NOTES:

- THE DATA IN THE PREVIOUS TABLE IS BASED UPON THE FOLLOWING INSTALLATION CONDITIONS:
 SOIL TYPESAND
 TEST PRESSURE150 PSI, 200 PSI FOR PIPES LARGER THAN 24"
 DEPTH OF BURY3'
 TRENCH TYPE3
 SAFETY FACTOR1.5
 VERTICAL OFF-SET3'
 MINIMUM PIPE LENGTHS ALONG TEE RUN5'
- THE RESTRAINED PIPE LENGTHS APPLY TO DUCTILE IRON PIPE AND PVC PIPE.
- ALL JOINTS BETWEEN UPPER AND LOWER BENDS SHALL BE RESTRAINED.
- RESTRAINED PIPE LENGTHS FOR VALVES APPLY TO PIPE ON BOTH SIDES OF VALVES
- 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.
- 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.

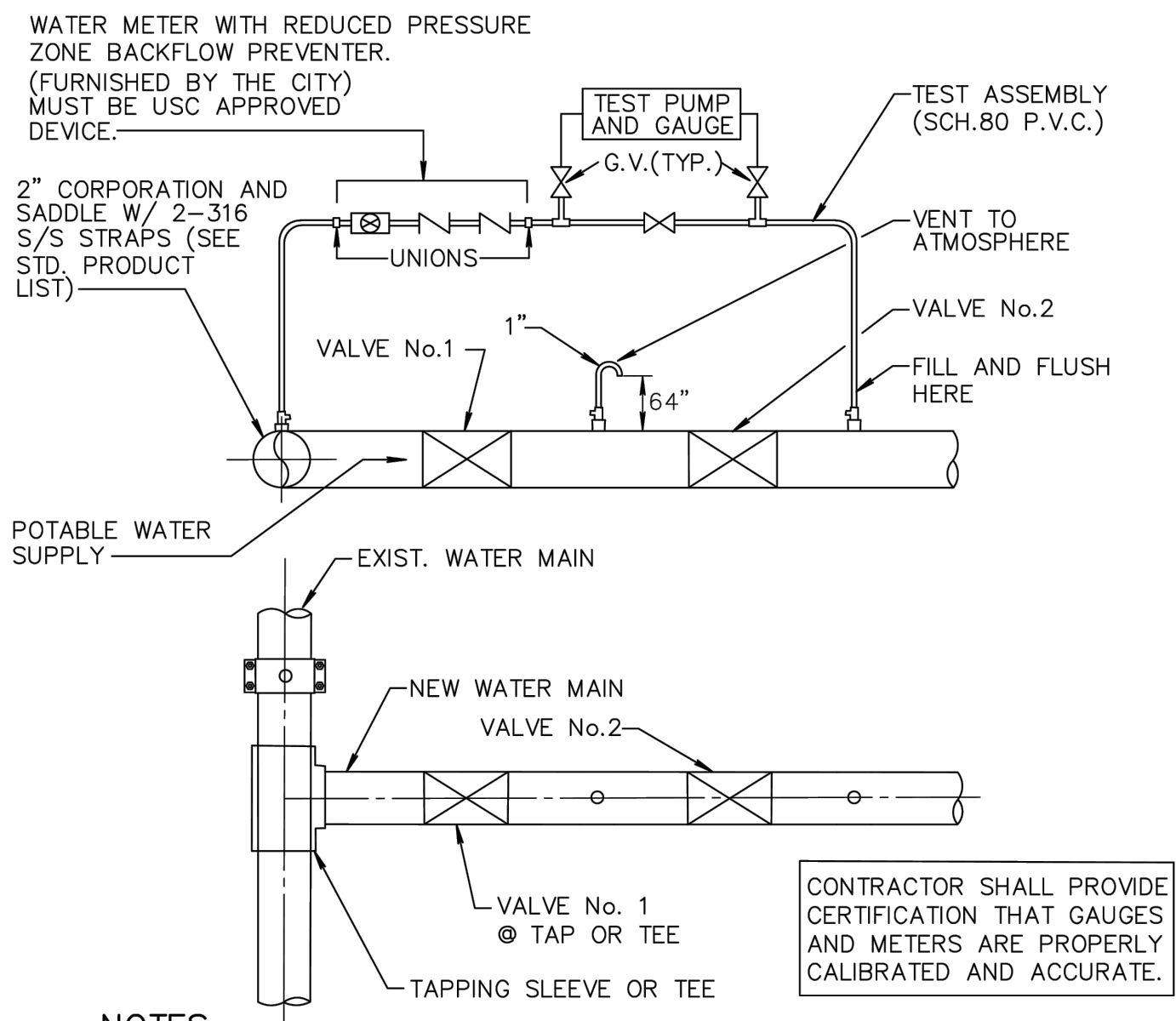
CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 404 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
 PIPE RESTRAINT TABLE PRESSURE PIPE (SHEET 2 OF 2) PP 2.1 DATE: 09-15-2021



NOTES:

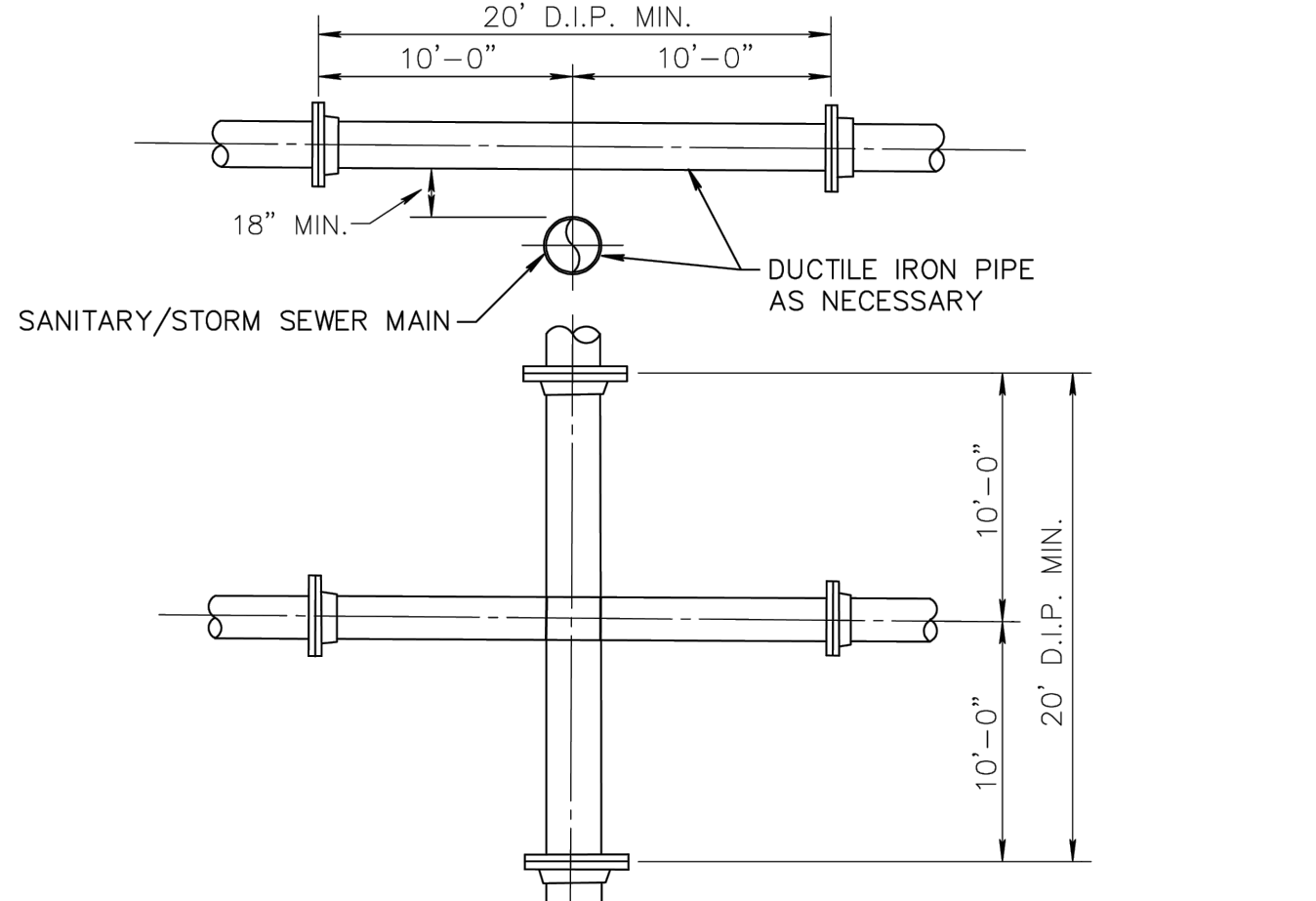
- THERE SHALL BE IN ALL CASES A MINIMUM OF 18" VERTICAL SEPARATION BETWEEN WATER MAINS AND FORCE MAINS.
- WHEREVER POSSIBLE WATER MAINS SHALL PASS OVER FORCE MAINS OR STORM SEWERS.
- FITTINGS SHALL BE RESTRAINED WITH MECHANICAL JOINT RESTRAINTS.
- THE DEFLECTION TYPE CROSSING IS PREFERRED.
- DO NOT EXCEED 75% OF MANUFACTURERS RECOMMENDED MAXIMUM JOINT DEFLECTION.
- REFER TO TYPICAL RESTRAINING DETAIL PP 2.0 AND 2.1

CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 404 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
 PRESSURE PIPE CONFLICT TABLE PP 3.0 DATE: 09-15-2021



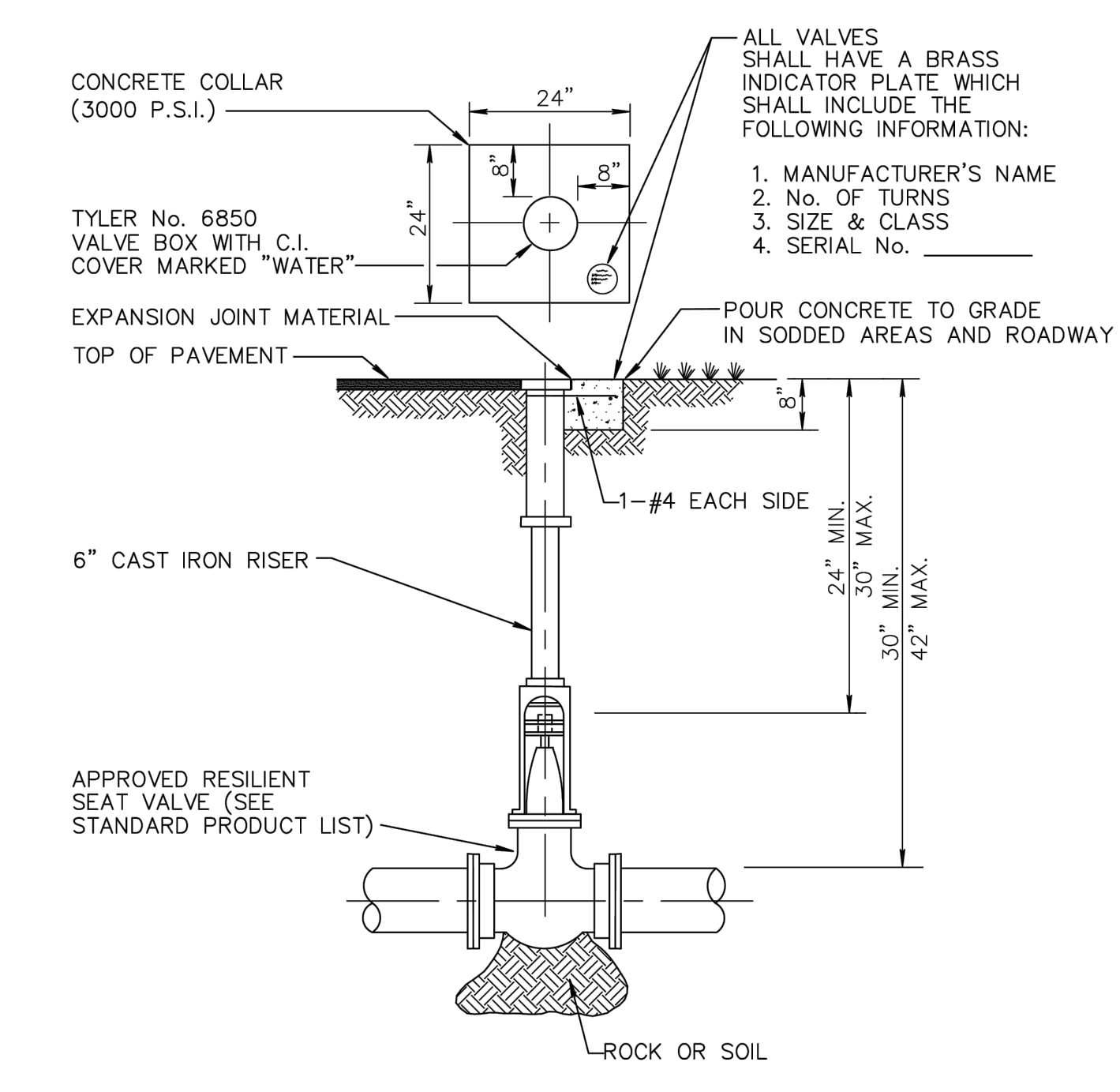
- NOTES:**
- BOTH VALVES SHALL BE KEPT CLOSED UNTIL FILLING, FLUSHING, AND BACTERIOLOGICAL TESTING IS COMPLETED AND APPROVED.
 - GAUGE AND RISER TO BE REMOVED AFTER PRESSURE TEST.
 - CITY SHALL BE NOTIFIED BEFORE FILLING AND FLUSHING.
 - AFTER RELEASE FROM THE HEALTH DEPARTMENT, BOTH VALVES TO BE LEFT OPEN WITH VALVE BOX INSTALLED ON BOTH VALVES.
 - PRESSURE TEST PUMP MAY CONNECT TO SERVICE LINE, FIRE HYDRANTS OR BLOWOFF. NO EXTRA TAPS ARE PERMITTED SOLELY FOR TESTING PURPOSES UNLESS PRECEDING 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.
- CONTRACTOR SHALL PROVIDE CERTIFICATION THAT GAUGES AND METERS ARE PROPERLY CALIBRATED AND ACCURATE.

CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 404 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
 FILL & FLUSH DETAIL PW 1.0 DATE: 09-15-2021



- NOTES:**
- 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 ARRANGED SO THAT THE SEWER PIPE JOINTS AND WATER MAIN JOINTS ARE EQUIDISTANT FROM POINT OF CROSSING WITH NO LESS THAN (10) FEET BETWEEN ANY TWO JOINTS AND BOTH PIPES SHALL BE D.I.P. AND THE MINIMUM VERTICAL SEPARATION SHALL BE 6 INCHES. WHERE THERE IS NO ALTERNATIVE TO SEWER PIPES CROSSING OVER A WATER MAIN, THE CRITERIA FOR MINIMUM 18" VERTICAL SEPARATION BETWEEN LINES AND JOINT ARRANGEMENT, 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 WATERMANS WITH A MINIMUM VERTICAL SEPARATION OF EIGHTEEN (18) INCHES. IF EIGHTEEN (18) INCHES 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 VERTICAL 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 PUBLIC WORKS DEPARTMENT 404 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
 WATER MAIN & SEWER CONFLICTS PW 2.0 DATE: 09-15-2021

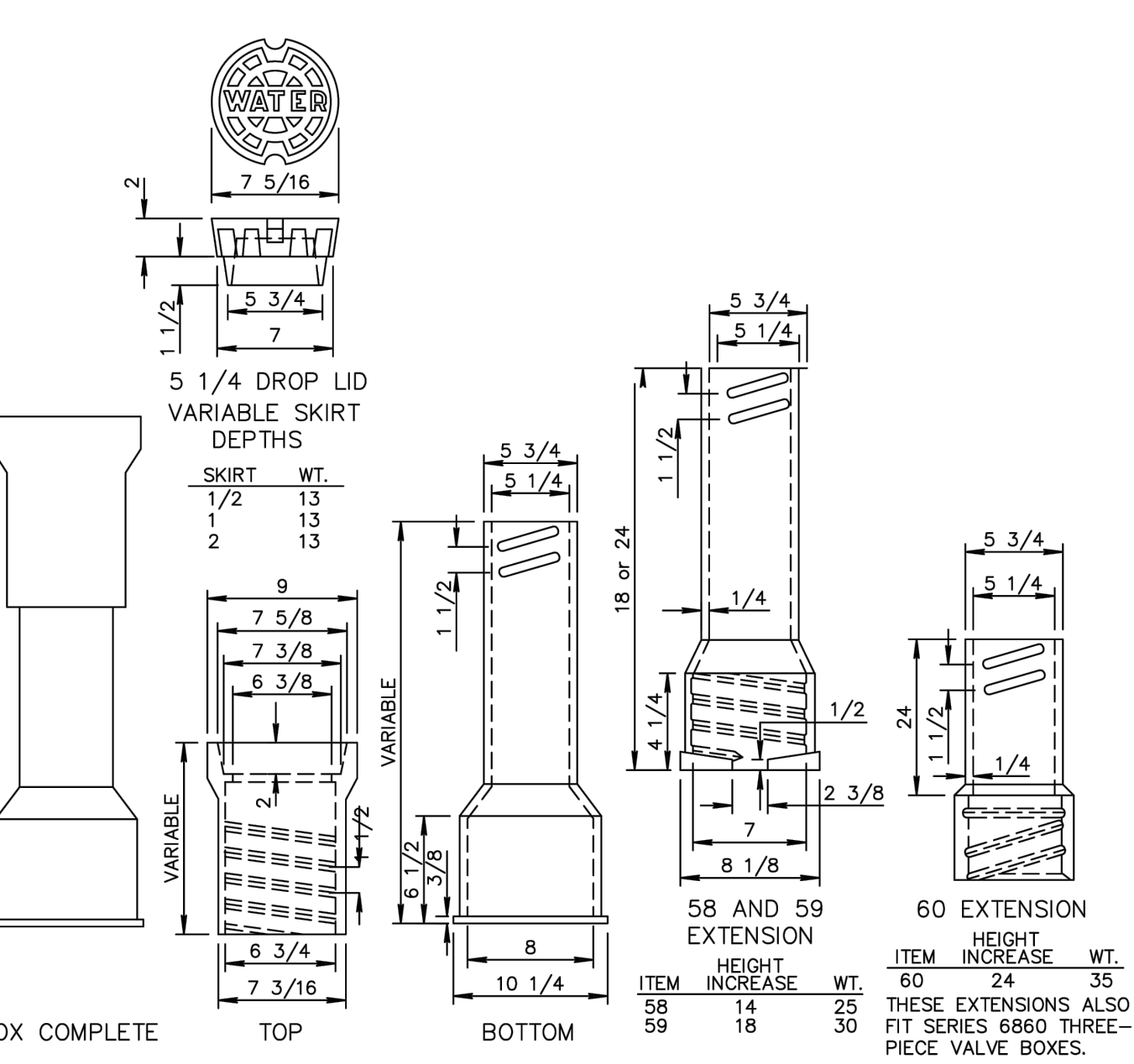


- NOTES:**
- WHEN VALVE IS DEEPER THAN 30" AN EXTENSION WITH UNIVERSAL JOINT SHALL BE REQUIRED TO BRING OPERATING NUT 24"-30" BELOW FINISHED GRADE EXTENSION BOLTS & NUTS SHALL BE 316 STAINLESS STEEL. A 316 STAINLESS STEEL CENTERING PLATE SHALL ALSO BE REQUIRED.
 - AT DEAD END OR WHERE MAIN LINES CHANGE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

CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 404 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
 TYPICAL GATE VALVE DETAIL 4" THRU 12" PW 3.0 DATE: 09-15-2021

ITEM	BOX COMPLETE EXTENSION IN INCHES	WT.	TOP SECTION W/LID		BOTTOM		PIECES PER PKG.
			LENGTH	WT.	LENGTH	WT.	
461-S	19-22	60	10	35	15	25	..
462-S	27-32	70	10	35	24	35	..
562-S	27-37	80	16	45	24	40	20
563-S	33-43	85	16	45	30	40	20
564-S	39-50	90	16	45	36	45	20
662-S	36-52	105	26	65	30	40	20
664-S	39-60	110	26	65	36	45	20
666-S	51-71	135	26	65	**48	70	20
668-S	62-82	145	26	65	**60	80	20

**MAY BE FURNISHED IN TWO PIECES SCREWED TOGETHER TO MAKE THE LENGTH REQUIRED.



NOTE: LOCKING LIDS WILL NOT BE ACCEPTED.

CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 404 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
 CAST IRON VALVE BOXES FOR TEMPORARY DEADENDS TWO PIECE PW 4.0 DATE: 09-15-2021

REV. PER CITY COMMENTS	09/05/24	MVK	BY
REV. PER CITY COMMENTS	08/29/24	JRH	DATE
REVISIONS	07/18/24	JRH	
FILE NAME	1057ZENG.dwg		

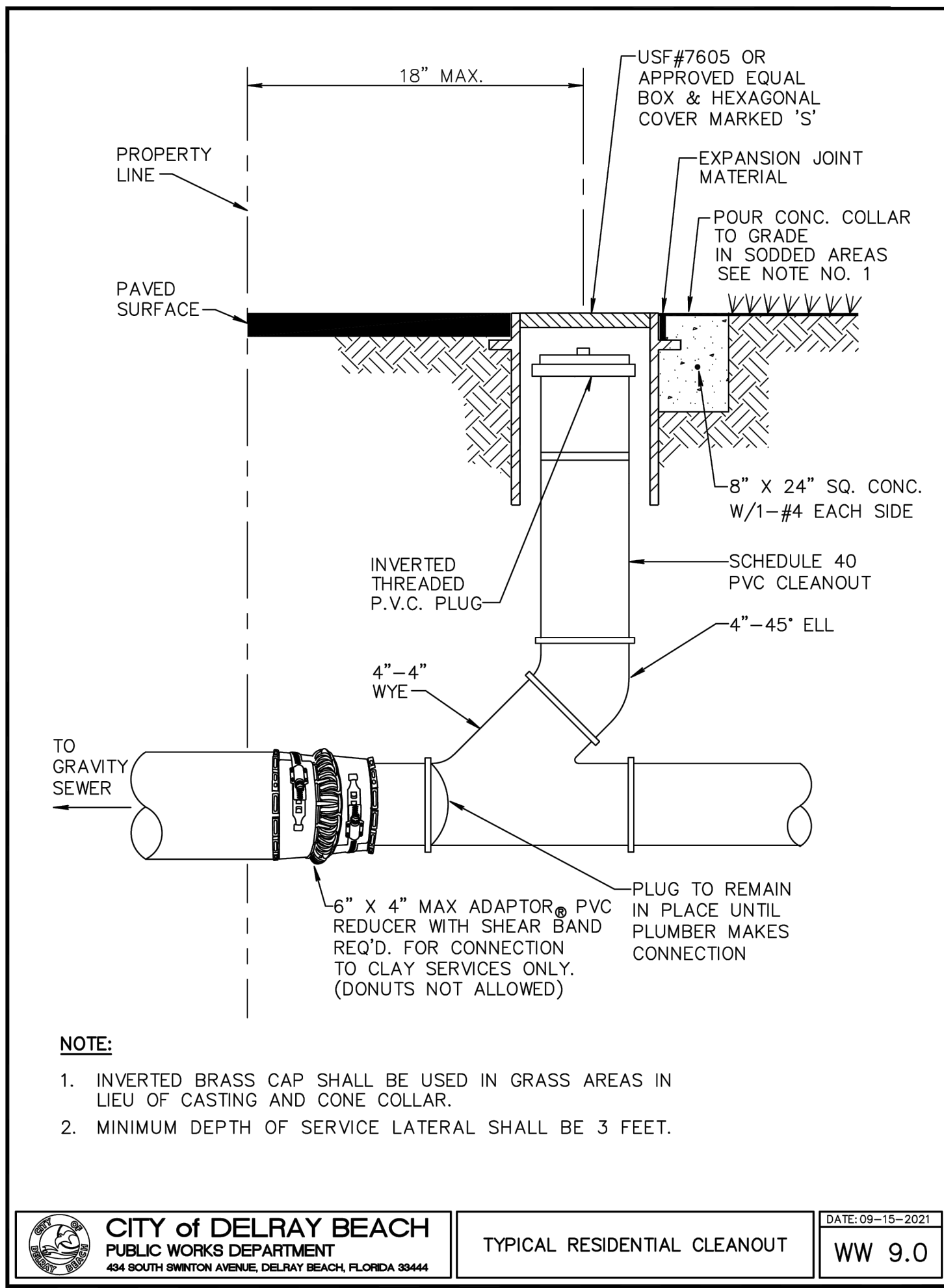
CAULFIELD & WHEELER, INC.
 CIVIL ENGINEERING - SURVEYING
 LANDSCAPE ARCHITECTURE - SUITE 100
 BOCA RATON, FLORIDA 33434
 PHONE (561) 392-1991 / FAX (561) 750-1452

FIFTH AVENUE TOWNHOMES
 PROPOSED TOWNHOMES
 PROPOSED WATER DISTRIBUTION & SANITARY SEWER DETAILS
 142 SE.5TH AVE, DELRAY BEACH, FL. 33483

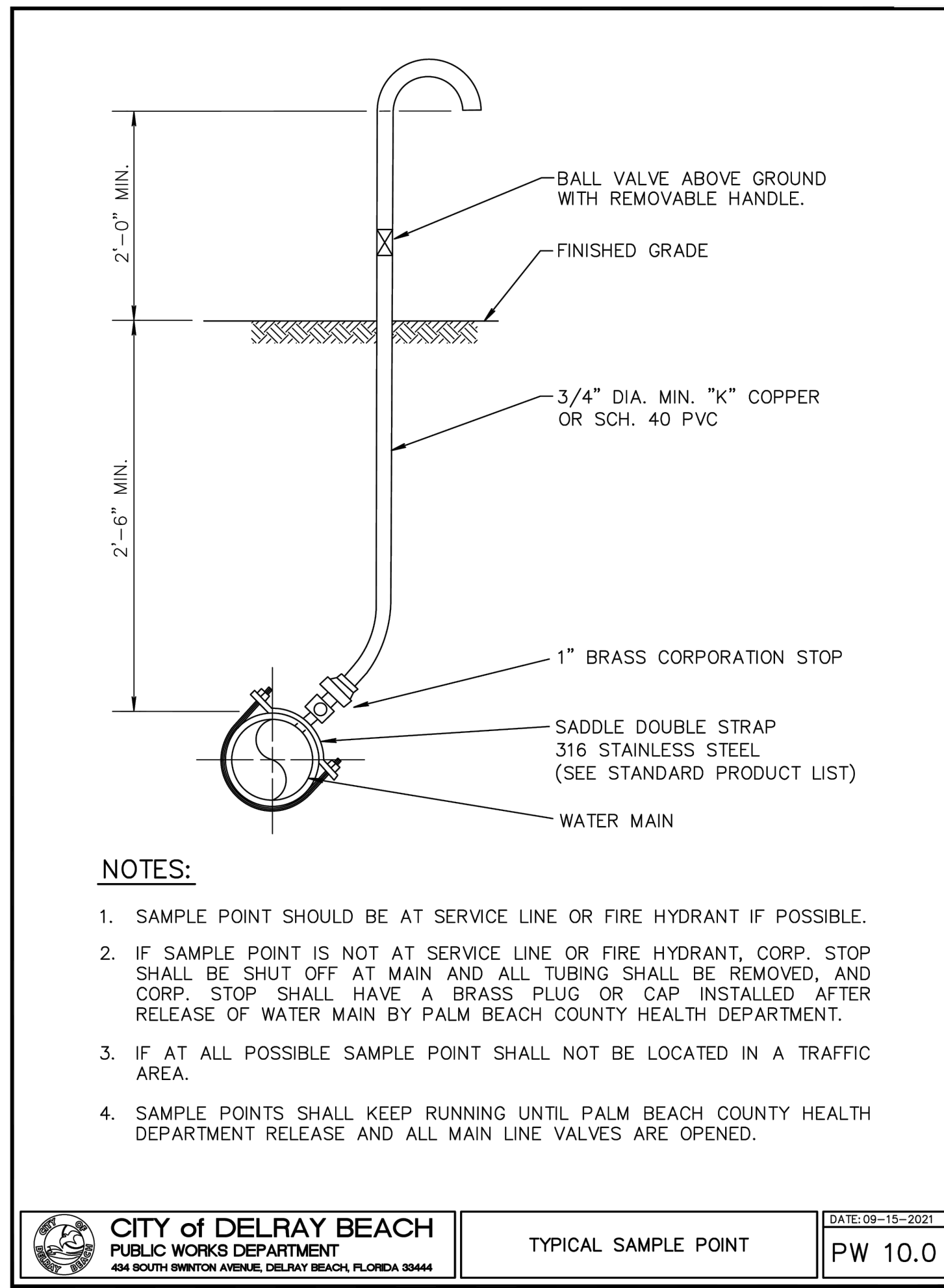
DATE 10/18/23
 DRAWN BY JJB
 F.B./ PG. ---
 SCALE N/A

MATTHEW V. KAHN
 PROFESSIONAL ENGINEER
 LICENSE NO. 82227
 STATE OF FLORIDA
 - FOR THE FIRM -
 DATE

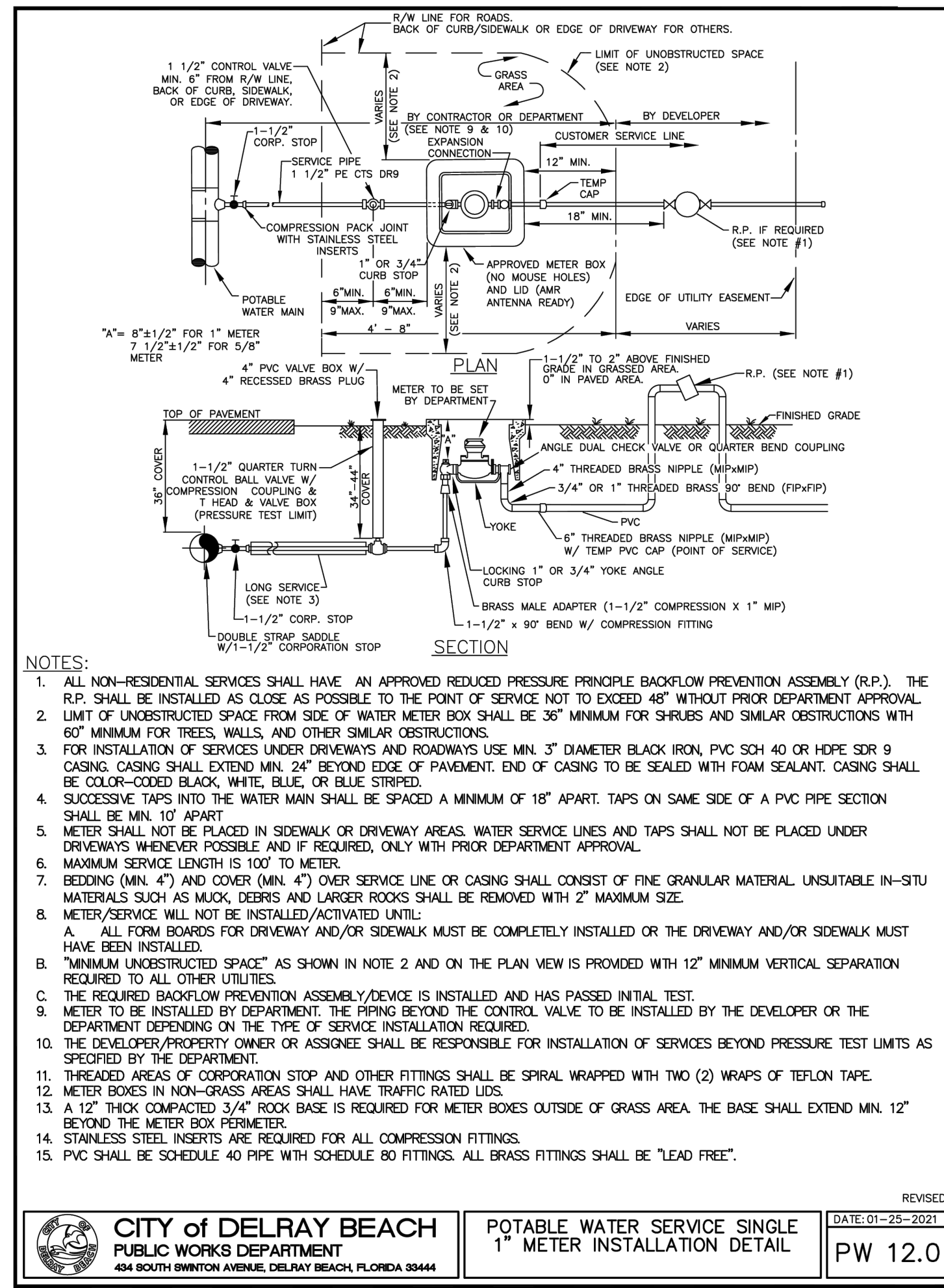
JOB # 10577
 SHT. NO.
WS-2
 OF 14 SHEETS



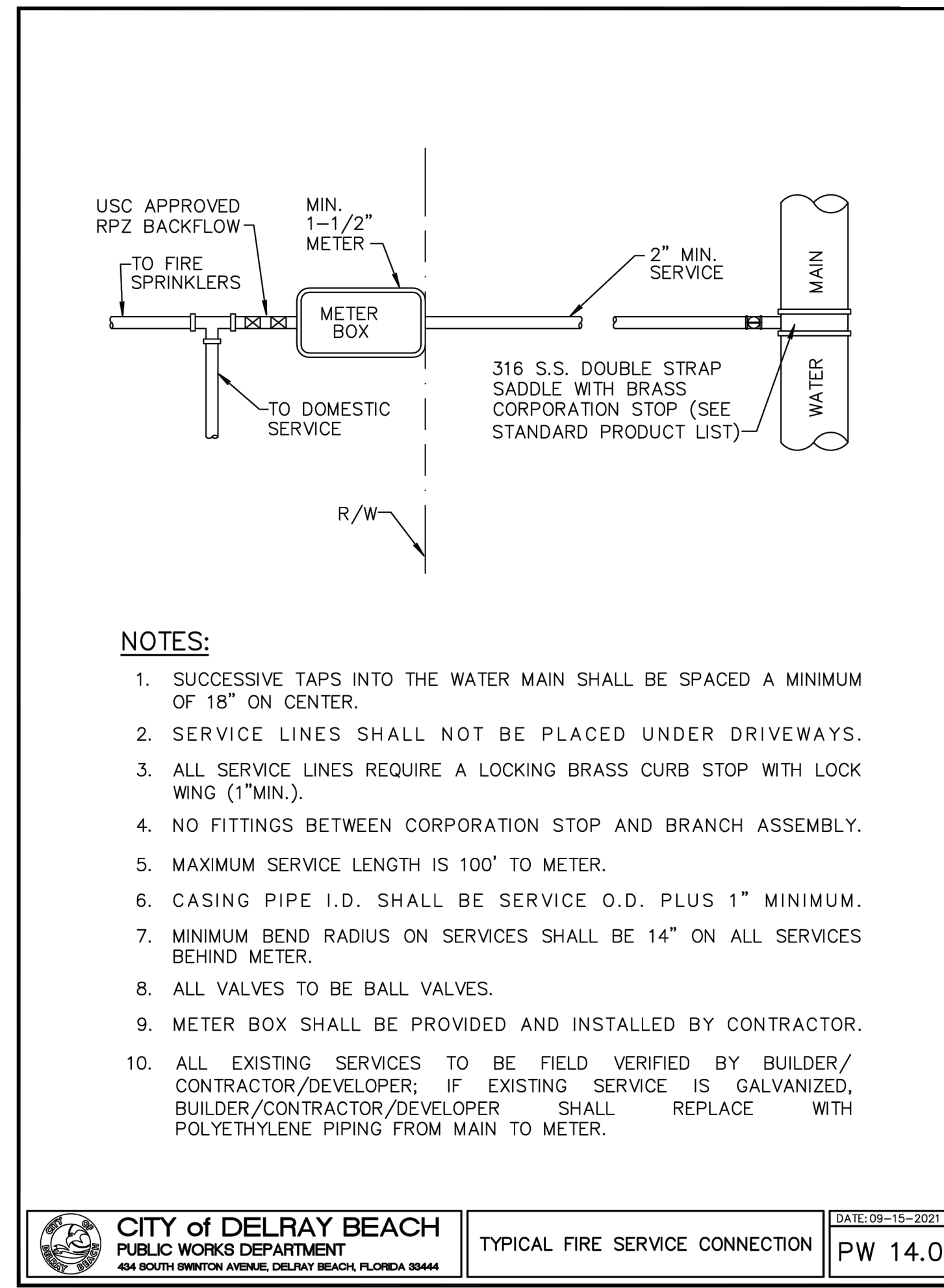
CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
404 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
DATE: 09-15-2021
TYPICAL RESIDENTIAL CLEANOUT
WW 9.0



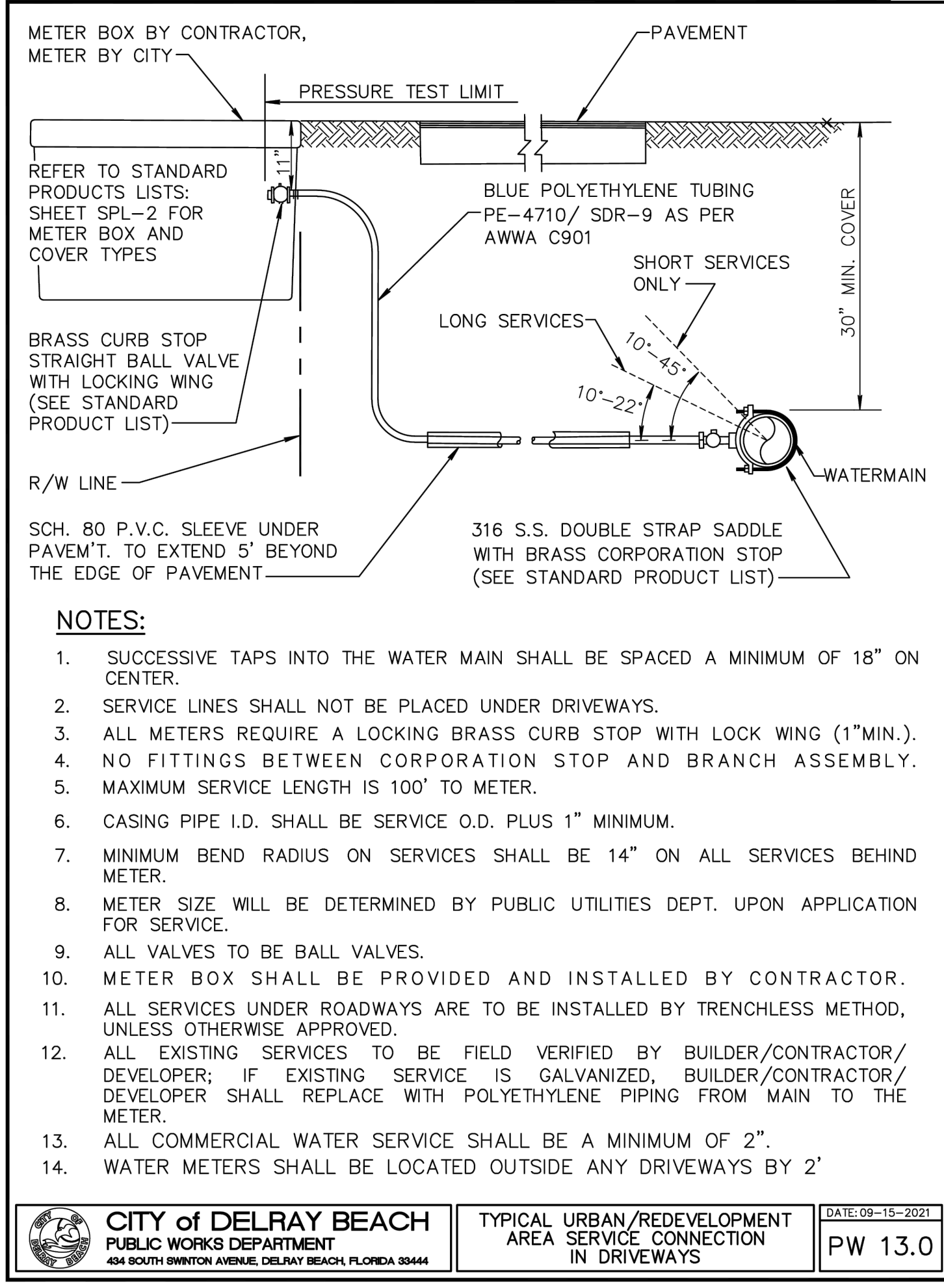
CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
404 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
DATE: 09-15-2021
TYPICAL SAMPLE POINT
PW 10.0



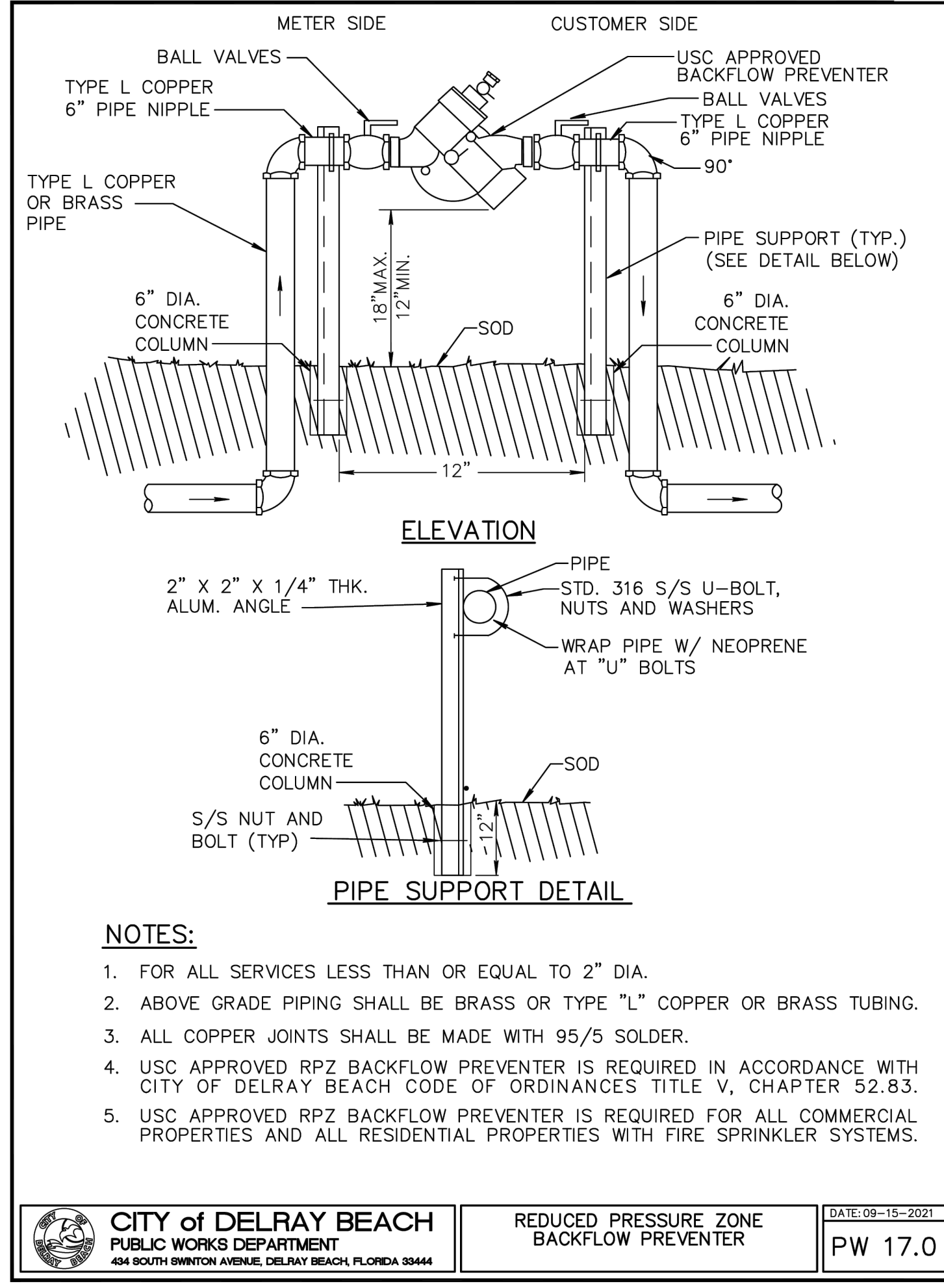
CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
404 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
DATE: 01-25-2021
POTABLE WATER SERVICE SINGLE 1" METER INSTALLATION DETAIL
PW 12.0



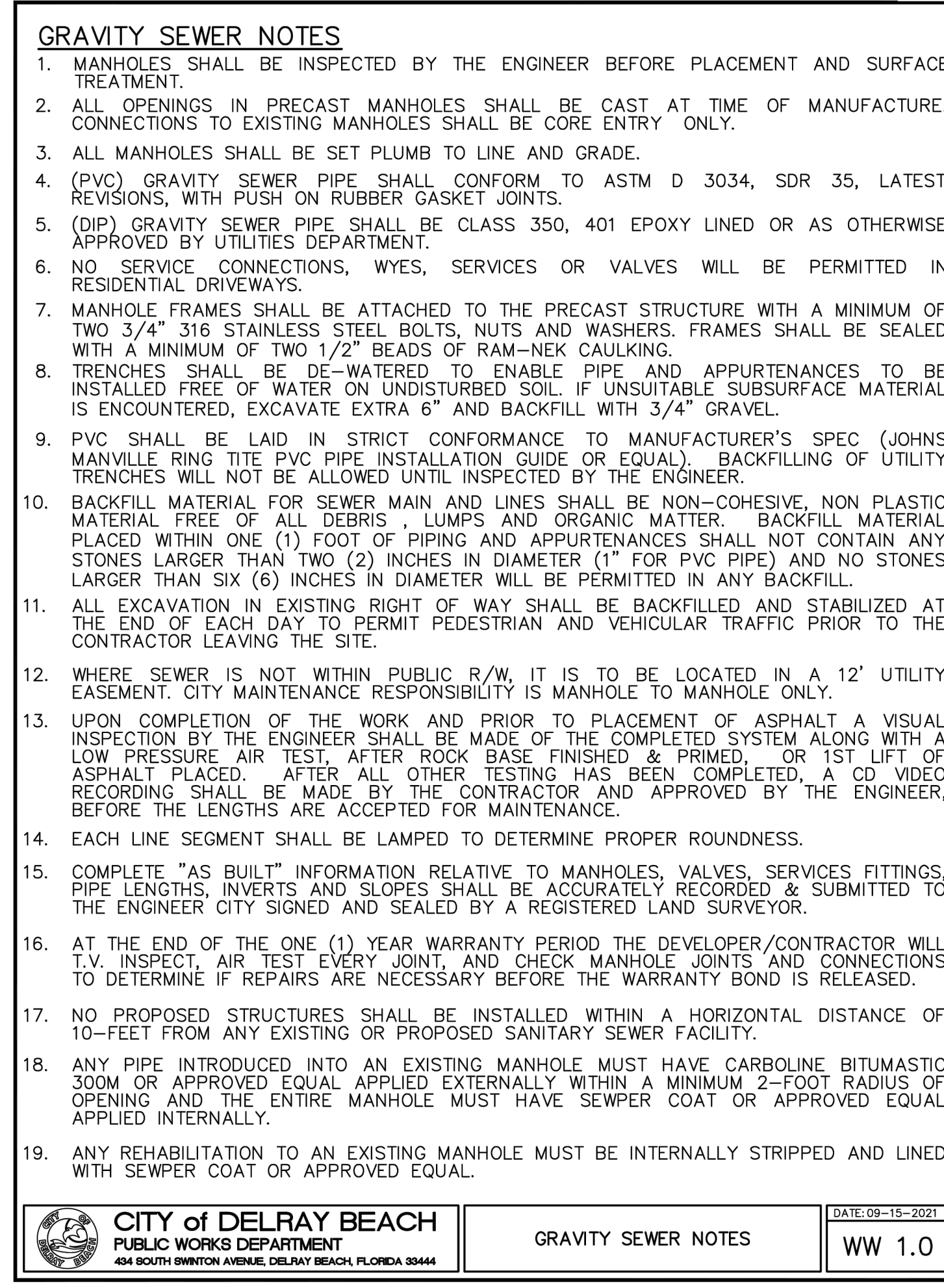
CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
404 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
DATE: 09-15-2021
TYPICAL FIRE SERVICE CONNECTION
PW 14.0



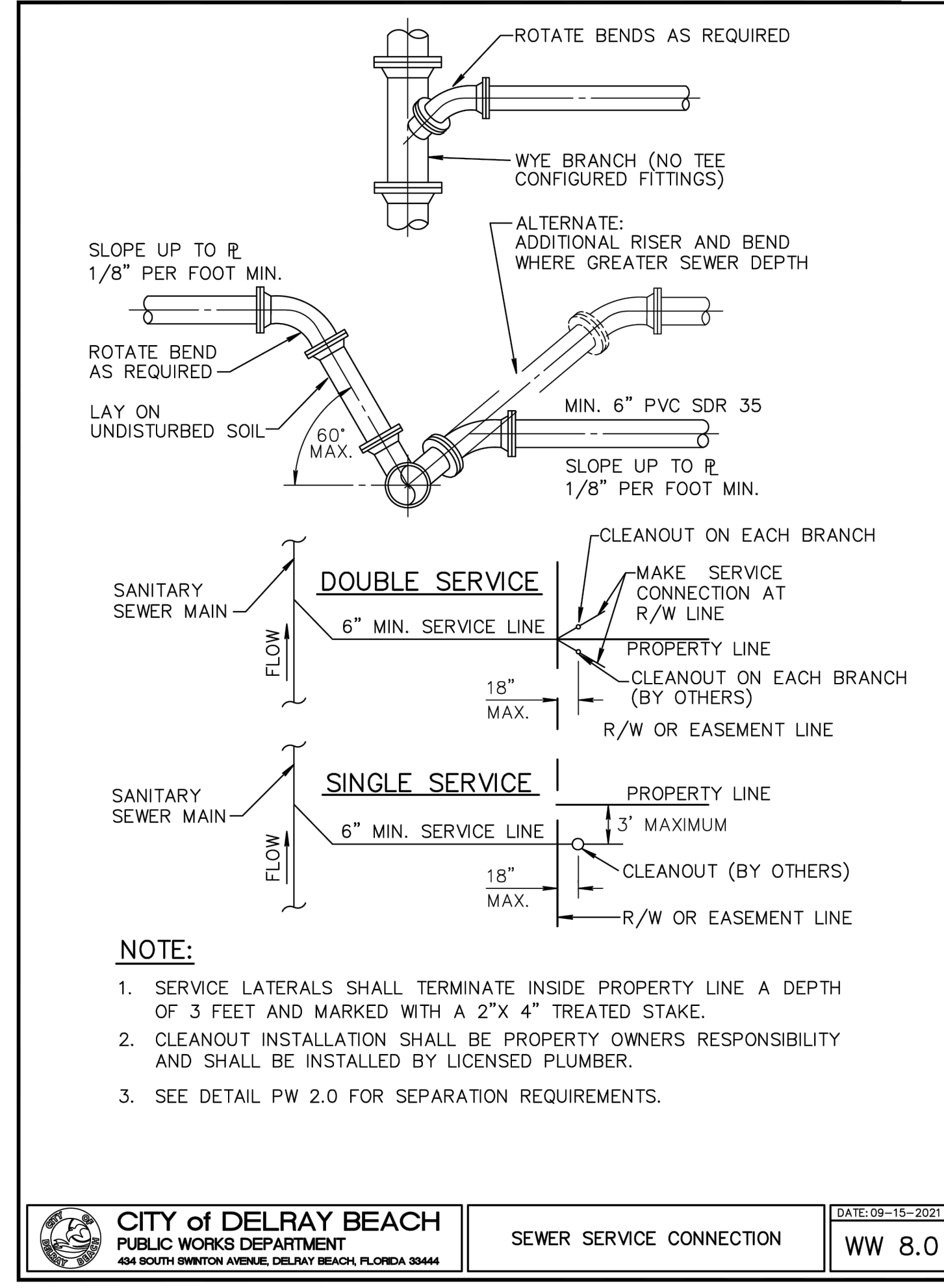
CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
404 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
DATE: 09-15-2021
TYPICAL URBAN/REDEVELOPMENT AREA SERVICE CONNECTION IN DRIVEWAYS
PW 13.0



CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
404 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
DATE: 09-15-2021
REDUCED PRESSURE ZONE BACKFLOW PREVENTER
PW 17.0



CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
404 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
DATE: 09-15-2021
GRAVITY SEWER NOTES
WW 1.0



CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
404 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
DATE: 09-15-2021
SEWER SERVICE CONNECTION
WW 8.0

REV. PER CITY COMMENTS	09/05/24	MVK	BY
REV. PER CITY COMMENTS	08/29/24	JRH	
REVISIONS	07/18/24	JRH	
FILE NAME	10577ENG.dwg		

CAULFIELD & WHEELER, INC.
CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE - SURVEYING
7900 GLADES ROAD - SUITE 100
BOCA RATON, FLORIDA 33434
PHONE (561) 392-1991 / FAX (561) 750-1452

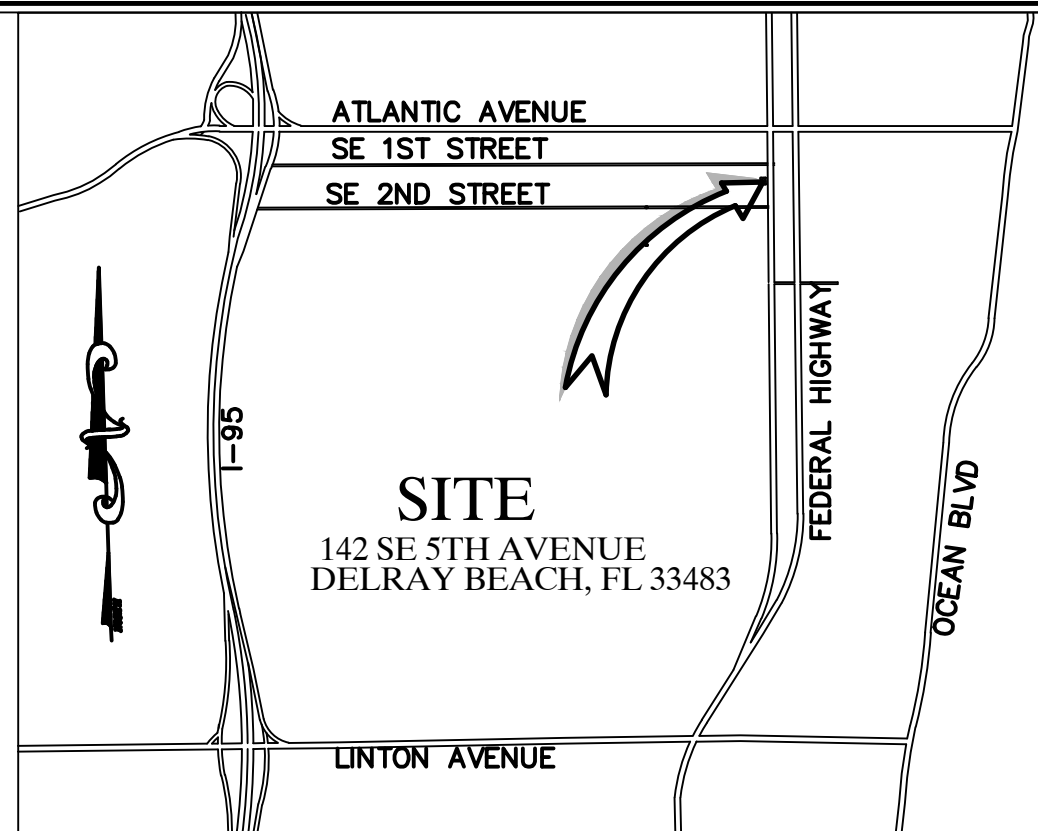
**FIFTH AVENUE TOWNHOMES
PROPOSED TOWNHOMES
PROPOSED WATER DISTRIBUTION &
SANITARY SEWER DETAILS**
142 SE 5TH AVE, DELRAY BEACH, FL 33483

DATE	10/18/23
DRAWN BY	JJB
F.B./PG.	---
SCALE	N/A

MATTHEW V. KAHN
PROFESSIONAL ENGINEER
LICENSE NO. 82227
STATE OF FLORIDA
- FOR THE FIRM -
DATE

JOB # 10577
SHT. NO.
WS-3
OF 14 SHEETS

NOTE: CONTRACTOR IS REQUIRED TO ASBUILT WATER, SEWER, DRAINAGE AND FINAL GRADING ELEVATIONS PER THE REQUIREMENTS OF FDOT/CITY OF DELRAY BEACH



REV.	PER.	CITY COMMENTS	DATE	BY
09/05/24	MVK			
08/29/24	JRH			
07/18/24	JRH			
		REVISIONS		
		FILE NAME: 10577R16.dwg		

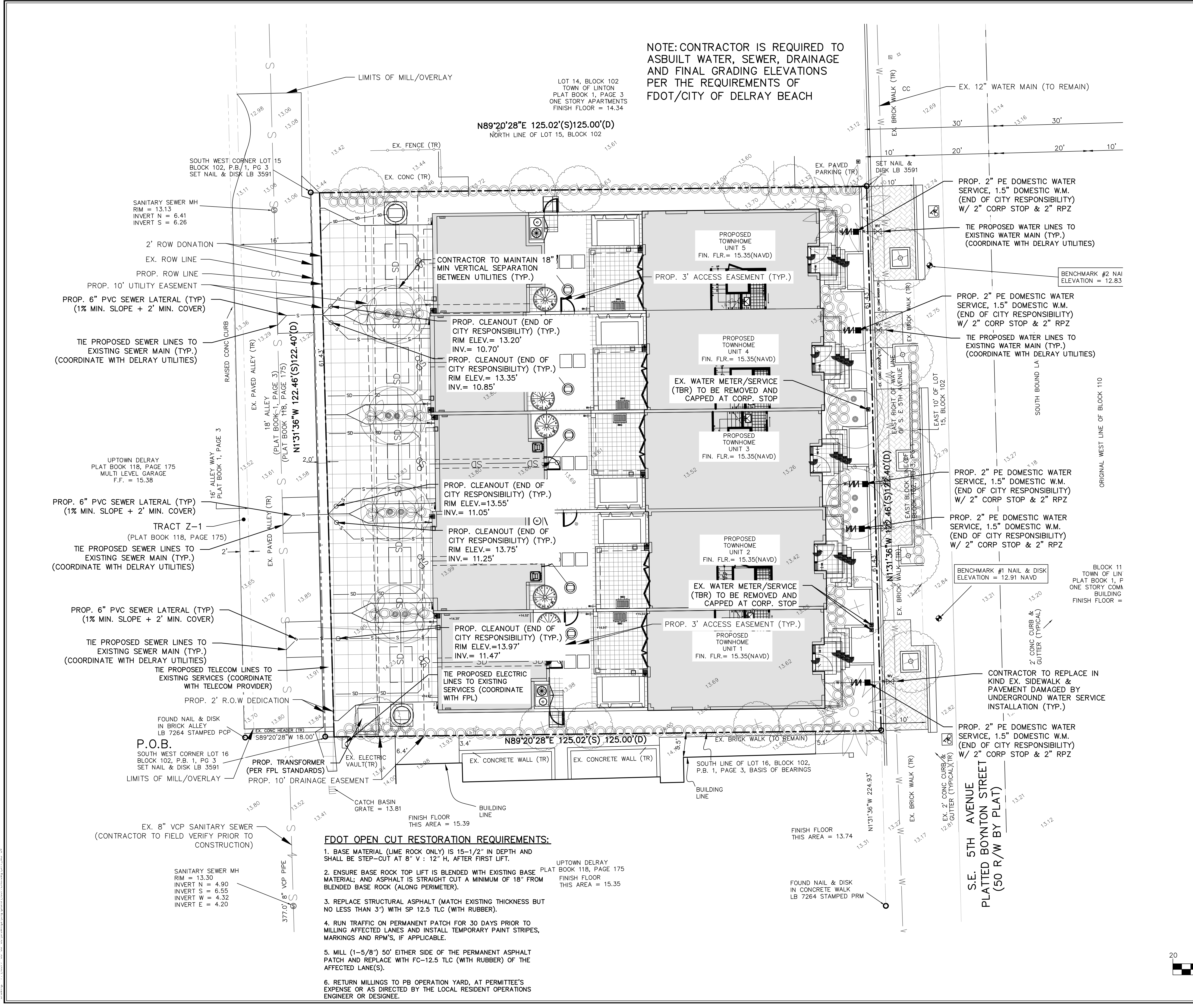
CAULFIELD & WHEELER, INC.
 CIVIL ENGINEERING - SURVEYING
 LANDSCAPE ARCHITECTURE - SUITE 100
 7900 GLADES ROAD - BOCA RATON, FLORIDA 33434
 PHONE: (561)-392-1981 / FAX: (561)-750-1452

FIFTH AVENUE TOWNHOMES
 PROPOSED TOWNHOMES
 PROPOSED COMPOSITE UTILITY PLAN
 142 SE 5TH AVE, DELRAY BEACH, FL 33483

DATE	10/18/23
DRAWN BY	JJB
F.B./ PG.	----
SCALE	1" = 10'

MATTHEW V. KAHN
 PROFESSIONAL ENGINEER
 LICENSE NO. 82227
 STATE OF FLORIDA
 - FOR THE FIRM -
 DATE

JOB # 10577
 SHT. NO.
WS-4
 OF 14 SHEETS



LEGEND

- EX. PROPERTY/ROW LINE
 - - - PROP. PROPERTY/ROW LINE
 - PLATTED EAST LINE
 - PROPOSED DRAINAGE PIPE
 - PROPOSED YARD DRAIN
 - EXISTING GRADE
 - PROPOSED GRADE
 - MATCH EXISTING GRADE
 - W --- PROPOSED WATER LINE
 - W --- EXISTING WATER LINE
 - S --- PROPOSED SANITARY SEWER LINE
 - S --- EXISTING SANITARY SEWER LINE
 - E --- PROPOSED ELECTRIC LINE
 - OH --- EXISTING OVERHEAD LINE
 - T --- PROPOSED TELEPHONE/CABLE LINE
 - T --- EXISTING TELEPHONE/CABLE LINE
 - G --- PROPOSED GAS LINE
 - G --- EXISTING GAS LINE
- PROPOSED BUILDING
 - PROPOSED ASPHALT REPLACEMENT (SEE DETAIL RT 1.0)
 - PROPOSED ROW BRICK WALK (SEE DETAIL RT 26.0)
 - PROPOSED ONSITE PEDESTRIAN PAVERS (SEE ARCH PLANS FOR DETAILS)
 - PROPOSED PAVER DRIVEWAY (SEE DETAIL RT 28.0)
 - PROPOSED TURF (SEE ARCH PLANS FOR DETAILS)
 - PROPOSED 1" ASPHALT MILL/OVERLAY
 - PROPOSED LIGHT POLE (SEE LANDSCAPE PLANS FOR DETAILS)
 - PROPOSED BOLLARD LIGHT (SEE LANDSCAPE PLANS FOR DETAILS)

NOTE: ELEVATION ARE SHOWN IN NAVD CONVERSION NAVD+1.54 = NGVD

NOTE: ANY TREES OR SHRUBS PLACED WITHIN WATER, SEWER OR DRAINAGE EASMENTS SHALL CONFORM TO THE CITY OF DELRAY BEACH STANDARD DETAILS: LD 1.0 & 2.0

NOTE: WM SIZES SHALL BE DESIGNED BY E.O.R. AND SHALL BE CHECKED AND AUTHORIZED BY THE CITY OF DELRAY BEACH UTILITIES DIVISION

Call 48 hours before you dig
It's the Law!
 1-800-432-4770
 Sunshine State One Call of Florida, Inc.

