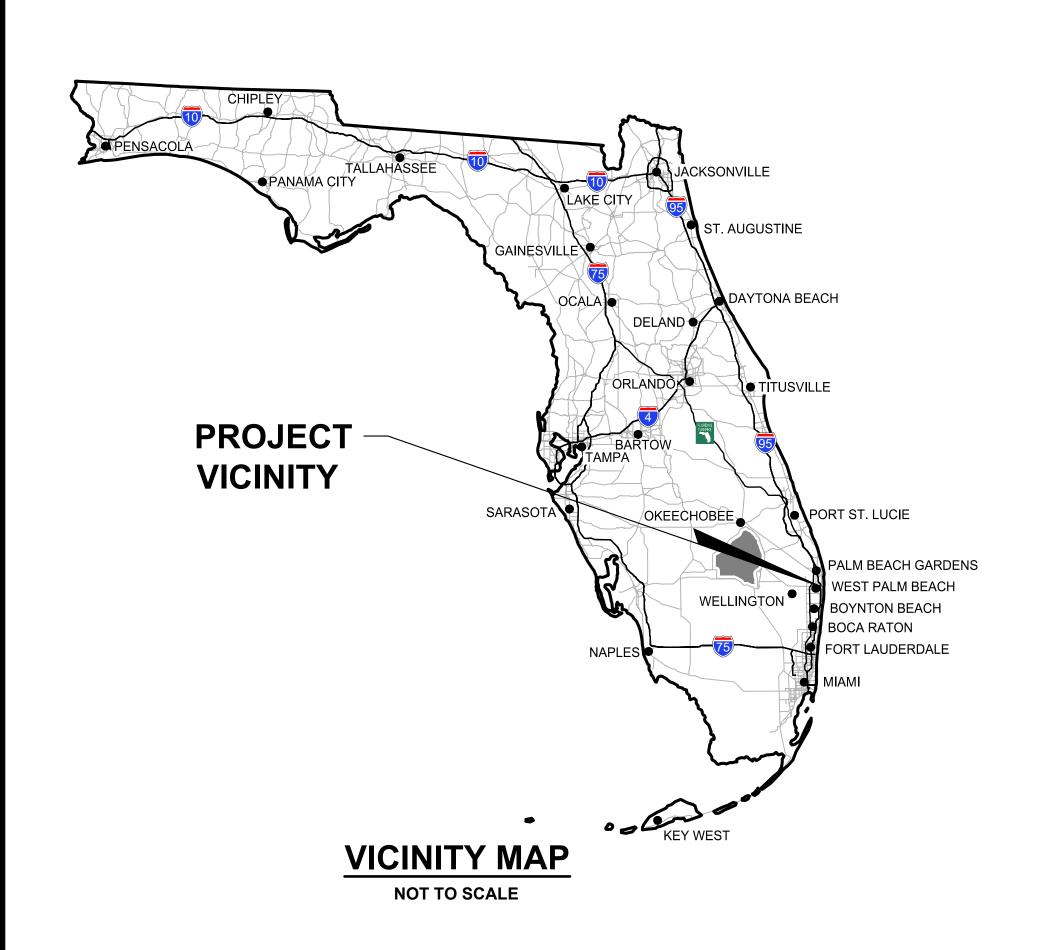
# SITE DEVELOPMENT PLANS GLEN RIDGE SELF STORAGGE

SECTION 05, TOWNSHIP 44S., RANGE 43E. TOWN OF GLEN RIDGE, FLORIDA





#### **LOCATION MAP**

NOT TO SCALE

#### INDEX OF SHEETS

<b>SHEET NO.:</b>	DESCRIPTION:
1	TITLE SHEET
2	DEMOLITION PLAN
3	<b>PAVING AND DRAINAGE PLAN</b>
4-6	<b>PAVING AND DRAINAGE DETAILS</b>
7	POLLUTION PREVENTION PLAN
8	<b>WATER AND WASTEWATER PLAN</b>
9	LIFT STATION DETAILS
10-21	WATER AND WASTEWATER DETAILS

REVIEWED FOR CODE COMPLIANCE

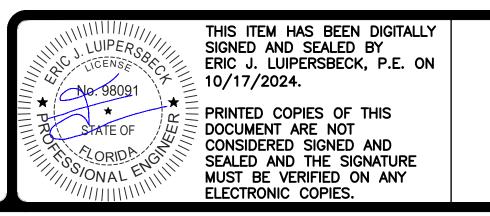
TOWN OF GLEN RIDGE

APPROVED BY JOSE RODRIGUEZ

PX-3697

10/17/2024

APPLICANT: 1550 SOUTHERN LP W.U.D. #24-579





GLEN RIDGE SELF STORAGE
SECTION 05, TOWNSHIP 44S., RANGE 43E
TOWN OF GLEN RIDGE, FLORIDA
TITLE SHEET

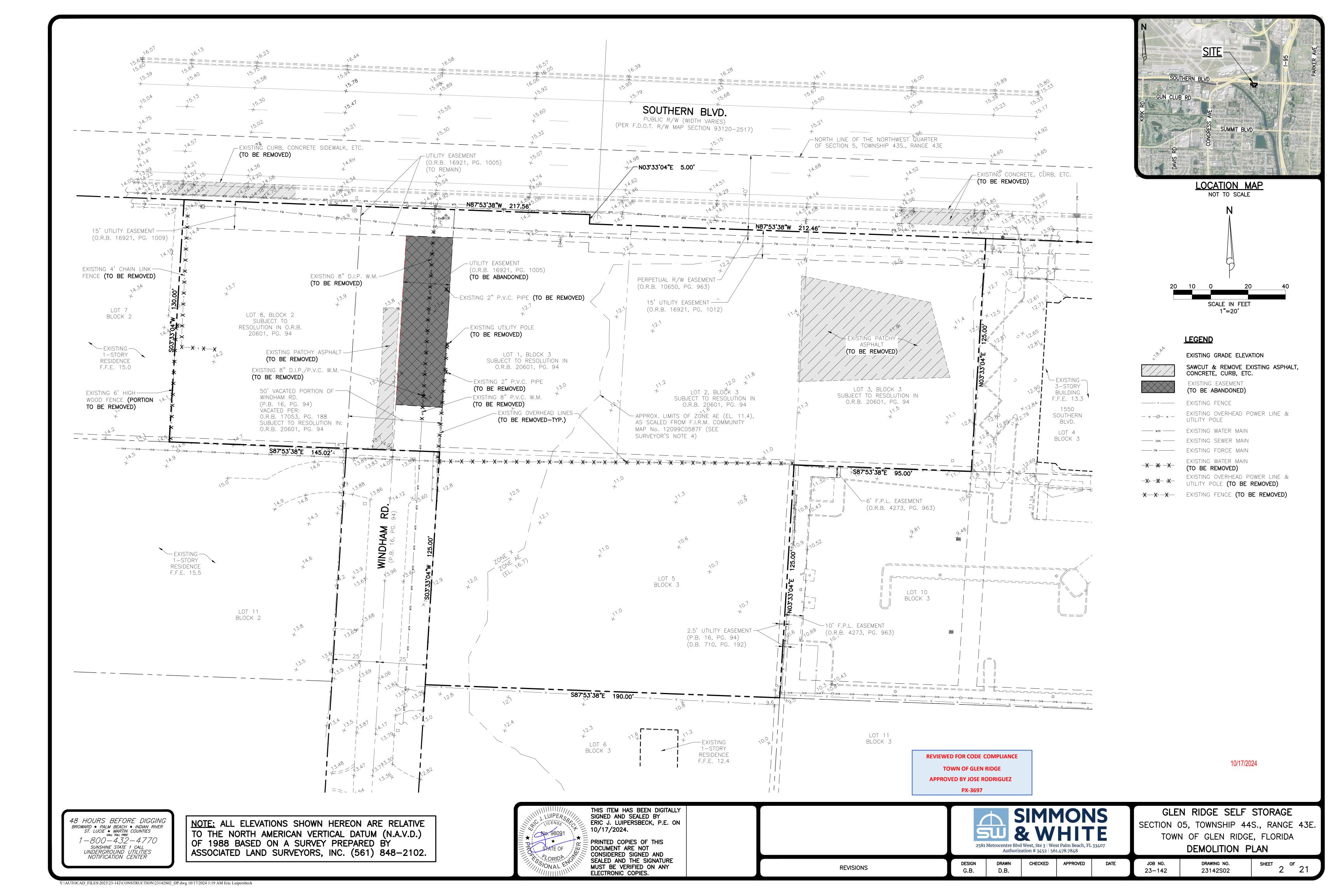
REVISIONS

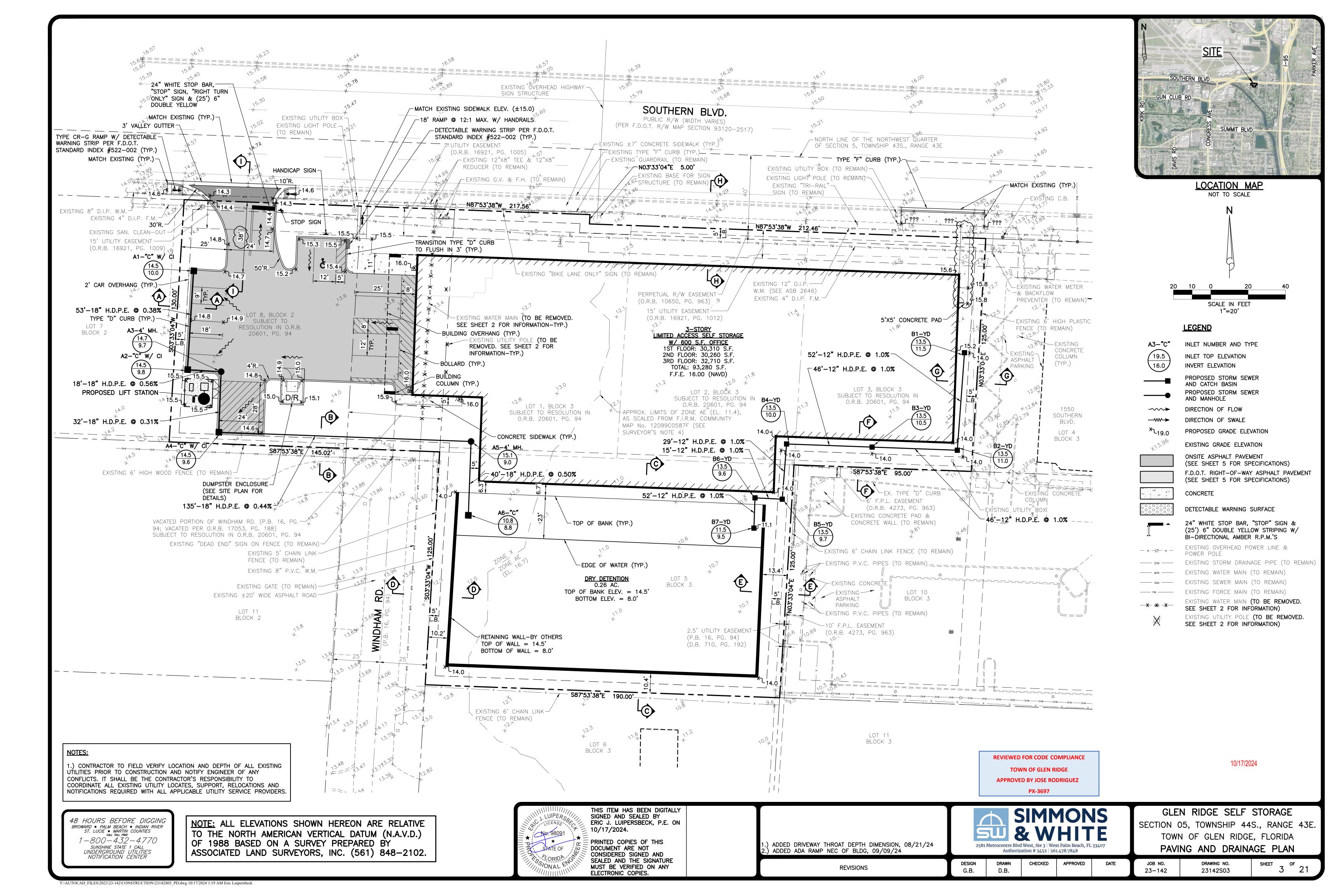
.B. D.E

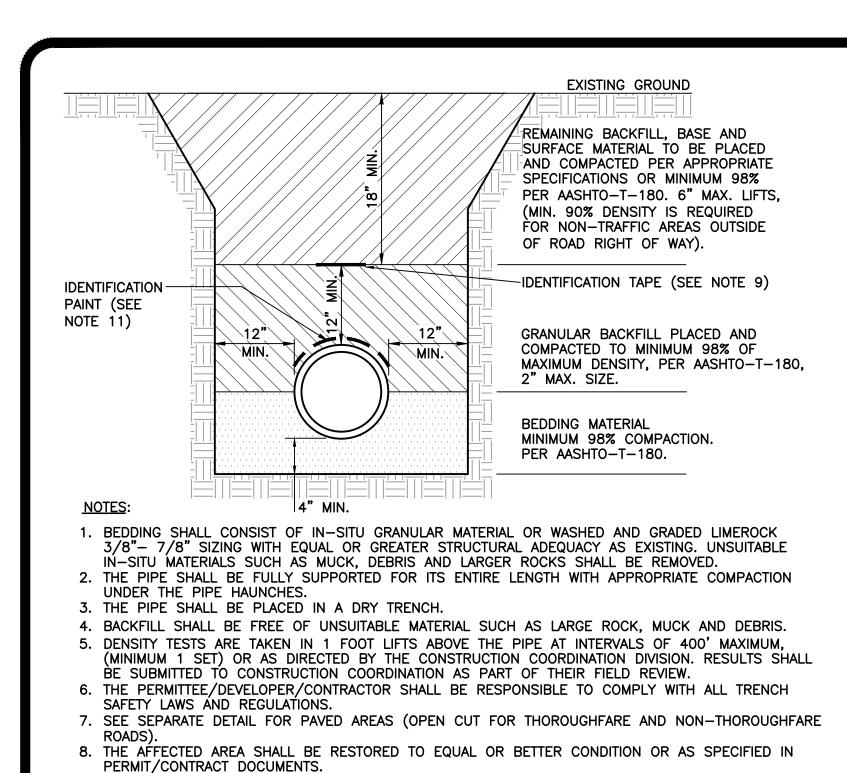
APPROVED

JOB NO. 23-142

DRAWING NO. SHEET 23142S01







9. APPROVED MAGNETIC TAPE IS REQUIRED FOR ALL MAIN PRESSURE PIPES AND CONDUIT IN THE

10. ROOT BARRIER IS REQUIRED FOR APPROVED PIPE INSTALLATION CLOSER THAN 10 FEET FROM AN

FORCE MAINS (GREEN), DIP RECLAIMED WATER MAINS (PURPLE), GAS MAINS (YELLOW), OR AS

TYPICAL TRENCH DETAIL

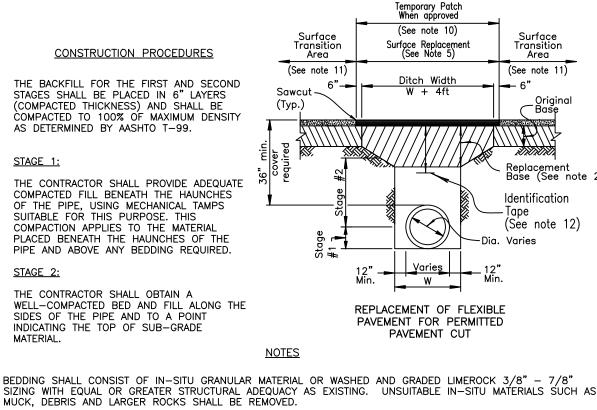
(NON-PAVED AREAS)

11. CONTINUOUS 4" WIDE PAINT STRIPING IS REQUIRED FOR DIP/PCCP WATER MAINS (BLUE), DIP SANITARY

COUNTY'S RIGHT-OF-WAY. INSTALL TAPE 18" BELOW FINISHED GRADE.

12. PERMANENT ABOVE GROUND UTILITY MARKER SHALL BE INSTALLED IF REQUIRED.

EXISTING TREE. SEE SEPARATE DETAIL FOR ROOT BARRIER.



1) BEDDING SHALL CONSIST OF IN-SITU GRANULAR MATERIAL OR WASHED AND GRADED LIMEROCK 3/8" - 7/8" SIZING WITH EQUAL OR GREATER STRUCTURAL ADEQUACY AS EXISTING. UNSUITABLE IN-SITU MATERIALS SUCH AS

2) REPLACED BASE MATERIAL OVER DITCH SHALL BE 16" LIMEROCK (LBR100) MINIMUM FOR THOROUGHFARE PLAN ROADS. ANY ALTERNATE BASE MATERIAL REQUESTED BY THE ENGINEER OF RECORD REQUIRES APPROVAL BY THE

3) ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED AND BUTT-JOINTED. 4) BASE MATERIAL (PER ROADWAY PRODUCTION DESIGN STANDARDS) SHALL BE PLACED IN TWO OR THREE LAYERS (6" MAX. PER LAYER) AND EACH LAYER THOROUGHLY ROLLED OR TAMPED TO THE SPECIFIED DENSITY. (MINIMUM 98%

5) 1" FRICTION COURSE FC-9.5 OVER 1-1/2" TYPE SP STRUCTURAL COURSE (TRAFFIC LEVEL C) WITH TACK COAT AT 0.05 GAL/SY AND RC-70 PRIME COAT AT 0.10 GAL/SY FOR LIMEROCK BASE. FOLLOW THE LATEST FDOT SPECIFICATIONS FOR APPLICATION RATES OF PRIME AND TACK COATS. CONTRACTOR TO SUBMIT MATERIALS AND RATES TO ENGINEER FOR APPROVAL PRIOR TO BEGINNING WORK. D ENGINEER FOR APPROVAL PRIOR TO BEGINNING WORK.

6) PIPE SHALL BE PLACED IN A DRY TRENCH. 7) ALL ROADWAY REPAIR WORK SHALL BE PERFORMED IN CONFORMANCE WITH APPLICABLE FDOT STANDARD

SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND COUNTY PPM# EL-0-3605.

8) DENSITY TESTS SHALL BE TAKEN IN 1 FT LIFTS ABOVE THE PIPE AT INTERVALS OF 400 FT MAXIMUM (1 SET MINIMUM) OR AS DIRECTED BY THE CONSTRUCTION COORDINATION DIVISION. RESULTS SHALL BE SUBMITTED TO CONSTRUCTION COORDINATION DIVISION AS PART OF THEIR FIELD REVIEW.

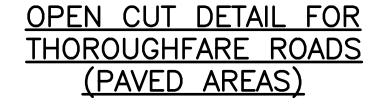
9) ENGINEER-OF-RECORD SHALL PROVIDE FULL-TIME INSPECTION DURING THE ENTIRETY OF THE OPEN-CUT OPERATION, BEGINNING WITH THE EXCAVATION AND CONTINUING THROUGH THE COMPLETION OF THE PAVING.

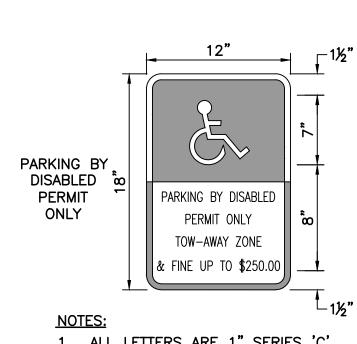
10) IF THE PAVEMENT IS NOT COMPLETELY RESTORED IMMEDIATELY FOLLOWING THE OPEN CUT. A SMOOTH TEMPORARY PATCH (MINIMUM 1.5" SP 12.5 STRUCTURAL COURSE ASPHALT) SHALL BE INSTALLED, PROPERLY MATCHING THE EXISTING GRADING OF THE ROADWAY. THE TEMPORARY PATCH SHALL BE ALLOWED TO REMAIN IN PLACE AND BE MAINTAINED FOR A PERIOD NO LONGER THAN 45 DAYS. THE COUNTY RETAINS THE RIGHT TO USE POSTED SURETY TO COMPLETE ANY RESTORATION WORK THAT HAS NOT BEEN COMPLETED IN THE 45 DAY PERIOD. ALTERNATIVE TEMPORARY TRENCH PROTECTION (STEEL PLATES OR OTHERS) MAY BE APPROVED BY THE CONSTRUCTION

11) FOR FINAL RESTORATION (INCLUDES THE PATCHED/SURFACE REPLACEMENT AREA OVER THE TRENCH). THE ROAD SHALL BE MILLED/RESURFACED PER NOTE 5 ABOVE FOR A FULL LANE WIDTH OF THE TRAVEL LANES ENCROACHED BY THE TRENCH AREA, INCLUDING A TRANSITION AREA OF 50 FT ON EACH SIDE MEASURED FROM TOP OF TRENCH.

12) APPROVED MAGNETIC TAPE IS REQUIRED FOR ALL MAIN PRESSURE PIPES AND CONDUIT IN THE COUNTY'S RIGHT-OF-WAY. INSTALL TAPE 24" BELOW FINISHED GRADE.

13) CONTINUOUS 4" WIDE PAINT STRIPING IS REQUIRED FOR DIP/PCCP WATER MAINS (BLUE), SANITARY MAINS (GREEN), DIP RECLAIMED WATER MAINS (PURPLE), GAS MAINS (YELLOW), OR AS REQUIRED BY THE APWA.



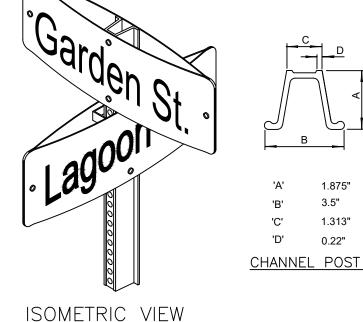


ALL LETTERS ARE 1" SERIES 'C'. TOP PORTION TO BE REFLECTORIZED BLUE BACKGROUND WITH WHITE REFLECTORIZED LEGEND AND BORDER.

BOTTOM PORTION TO BE REFLECTORIZED WHITE BACKGROUND WITH BLACK OPAQUE LEGEND AND BORDER.

HANDI-CAP SIGN DETAI NOT TO SCALE

SIGNAGE AND STRIPING TO BE CONSTRUCTED IN ACCORDANCE WITH PALM BEACH COUNTY ORDINANCE NO. 85-42



GENERAL SPECIFICATIONS

EQUAL DIMENSIONS - 9" & 12" MIN. H, 24", 30", 36" AND 42" L.

WITH #3877 GREEN DIAMOND GRADE BACKGROUND AND

LETTERS: NAME - 6" UPPERCASE WITH 4.5" LOWERCASE &

9" UPPERCASE WITH 6.75" LOWERCASE. SERIES "B" #3870 DIAMOND GRADE (SILVER) OR EQUAL — SUFFIX — 4.5"

BRACKETS SHALL BE ATTACHED FIRMLY ON STANDARD SQUARE TUBE OR U-CHANNEL POSTS BY MEANS OF (2)5/6"

POLICY:
9" BLADES WITH 6" UPPER CASE WITH 4.5" LOWERCASE LETTERS

FOR TWO LANE ROADS WITH A SPEED LIMIT UNDER 45 MPH

12" BLADES WITH 9" UPPERCASE WITH 6.75" LOWERCASE

ONLY ONE BLADE WILL BE INSTALLED AT INTERSECTION WITH THOROUGHFARE ROAD INDICATING THE SIDE STREET NAME.

**REVISIONS** 

PER FOOT WITH BAKED GREEN ALKYD OR GALVANIZED

FINISH PER A.S.T.M. -A-123 WITHOUT ANCHOR PLATES

FLAT BLADE: ALCOA #86054.6063-T6 ALLOY, ETCHED, DEGREASED WITH #1200 ALODINE FINISH

POST: STEEL FLANGED CHANNEL POST 3 LBS.

STOP SIGN: R1-1 MUTCD - DIAMOND GRADE

LOCATION: ONE PER INTERSECTION AS INDICATED

-THOROUGHFARE ROADS FOUR LANES OR WIDER

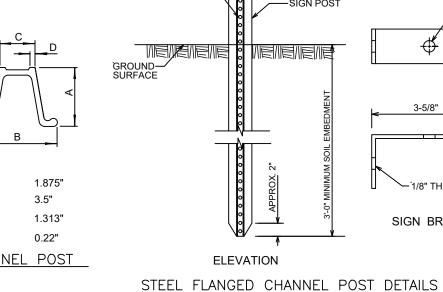
-TWO LANE ROADS WITH A POSTED SPEED LIMIT OF

SQUARE POST PER FDOT INDEX 700-010.

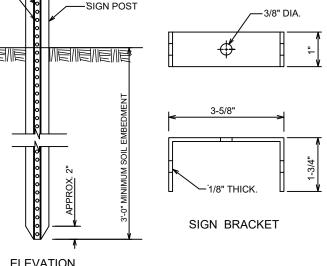
DIAMETER HEX HEAD BOLTS.

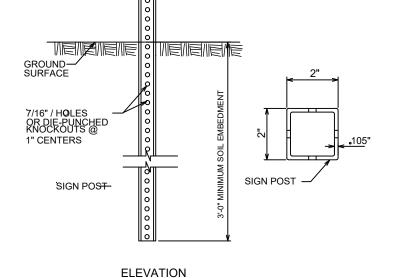
ON THE PLANS.

45 MPH OR MORE.



3/8" O HOLES @ 1" CENTERS





STEEL SQUARE TUBE POST DETAILS

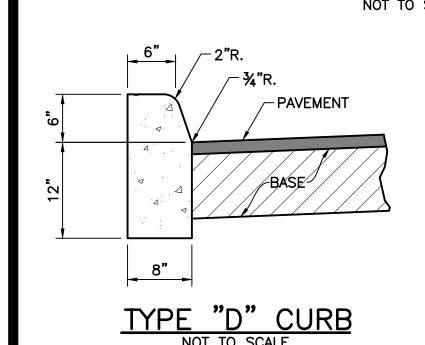
\* \* FROM THROUGH LANE 6' to 12' ← 2' FROM EDGE OF SIGN TO FACE OF CURB \* AT RADIUS IF STOP BAR IS USED WHEN POSSIBLE IT SHALL BE PLACED AT THE STOP SIGN 30' MAX FROM THROUGH LANE **CURBED SECTION** UNCURBED SECTION

TYPICAL STOP SIGN PLACEMENT

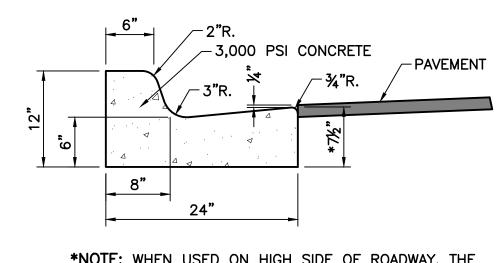
FRONT VIEW \_\_\_\_ 24", 30", 36" or 42" long STREET NAME SIGN

(SNS) or (D-3) STREET NAME SIGN WITH STOP SIGN POST

BLADE  $\longrightarrow$  ANY ST.

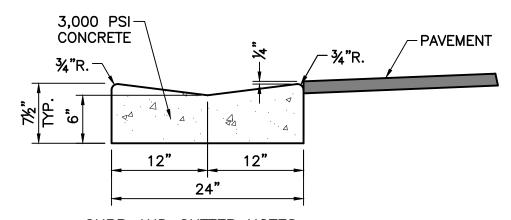


REQUIRED BY THE APWA.



\*NOTE: WHEN USED ON HIGH SIDE OF ROADWAY, THE CROSS-SLOPE OF THE GUTTER SHALL MATCH THE CROSS-SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON PLANS

NOT TO SCALE



**CURB AND GUTTER NOTES:** 1.) CONCRETE SHALL BE MINIMUM OF 3.000 PSI 2.) TYPE "A" CONTRACTION JOINTS SHALL BE @ 10' O.C. 3.) TYPE "B" EXPANSION JOINTS SHALL BE @ P.C./P.T. AND 100' O.C.

SEE PLAN

FOR WIDTH

TYPICAL SIDEWALK DETAIL

NOT TO SCALE

VALLEY GUTTER-SYMMETRICAL

─ 4" THICK, 2500 P.S.I. MIN.

EVEN, DUSTLESS SURFACE.)

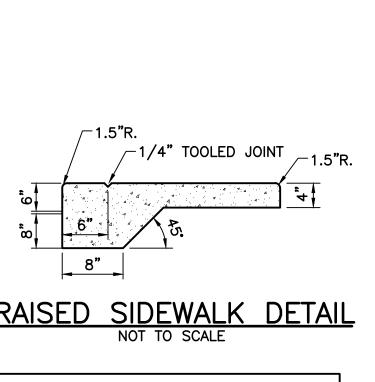
-4" THICK COMPACTED SUBGRADE

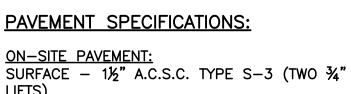
(98% PER A.A.S.H.T.O. T-180)

CONCRETE (BROOM FINISH WITH

## 1/4" TOOLED JOINT

#### RAISED SIDEWALK DETAIL





F.D.O.T. R/W PAVEMENT:

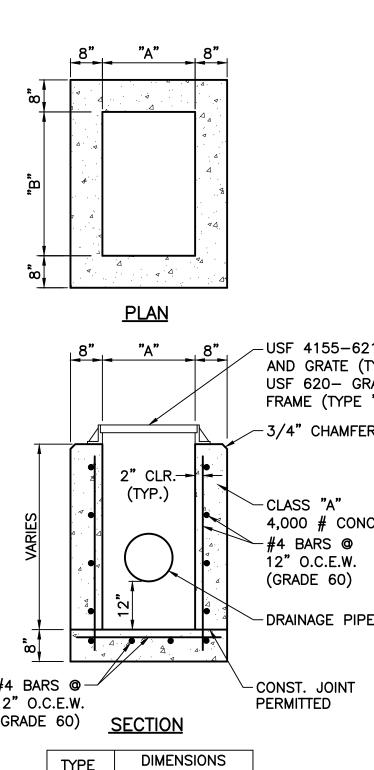
BASE - 8" BASEROCK, COMPACT TO 98% PER A.A.S.H.T.O. T-180

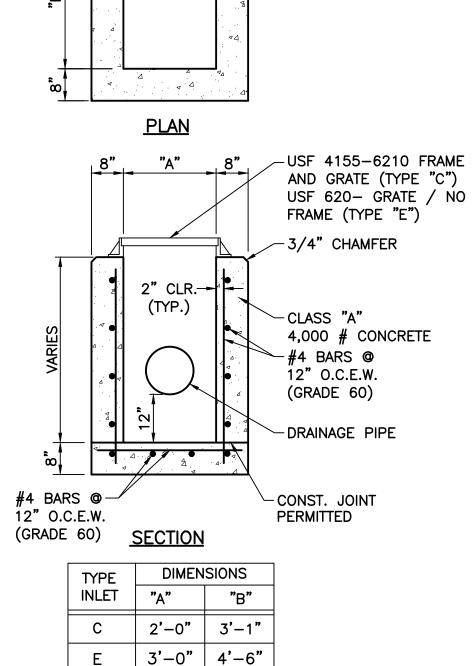
SUBGRADE - 12" COMPACTED SUBGRADE, COMPACT TO 98% PER A.A.S.H.T.O. T-180

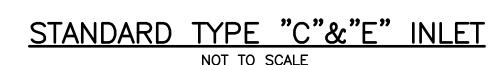
NOTE: OVERLAY TO BE 1" OF A.C.S.C. TYPE S-3

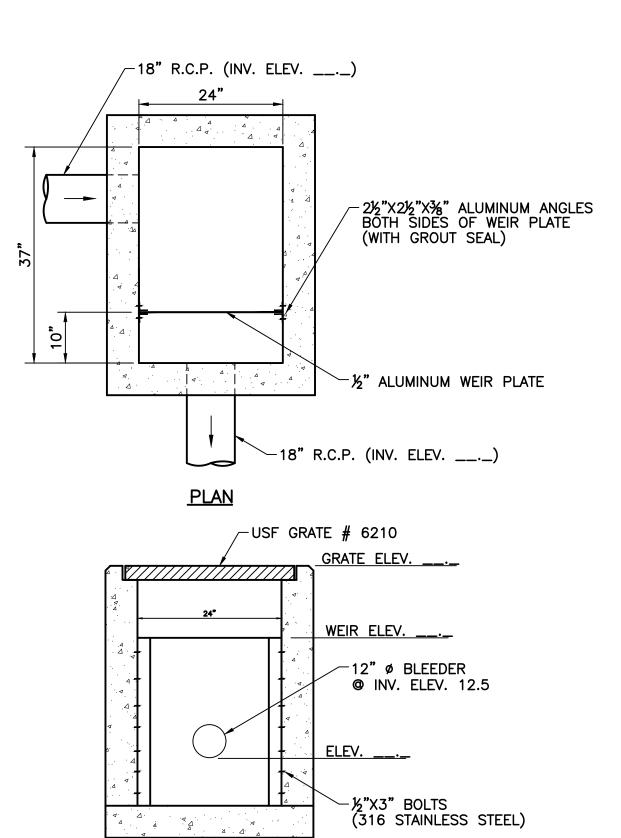
SURFACE - 1" FRICTION COURSE FC-9.5 OVER 2" TYPE SP STRUCTURAL COURSE (TRAFFIC C) W/ TACK COAT BASE - 15" LIMEROCK, COMPACT TO 98% PER

A.A.S.H.T.O. T-180 SUBGRADE - 12" COMPACTED SUBGRADE, COMPACT TO 98% PER A.A.S.H.T.O. T-180 (LBR 40

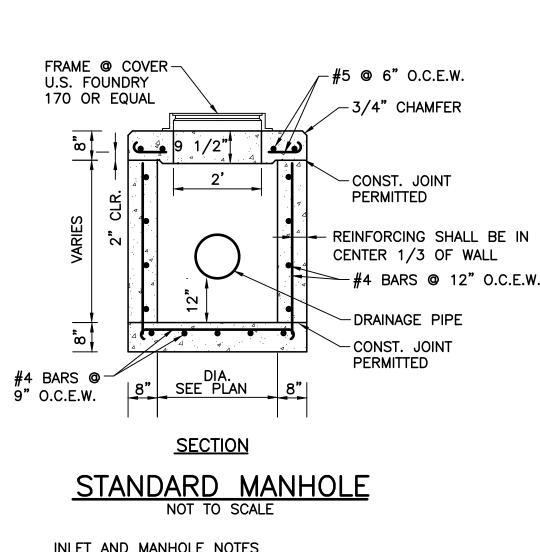








B1-C.S.

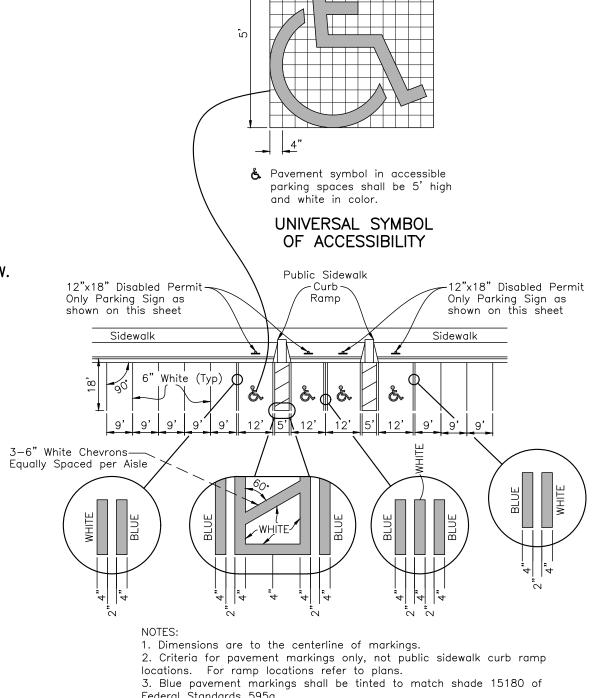


NLET AND MANHOLE NOTES 1. ALL EXPOSED CORNERS AND EDGES SHALL BE

- CHAMFERED 3/4". 2. INLETS AND MANHOLES SHALL BE PRECAST CLASS "A" 4,000 P.S.I.. CONCRETE.
- 3. FRAMES AND GRATES SHALL BE CAST IRON AND IN ACCORDANCE WITH F.D.O.T.. SPECIFICATIONS. 4. REINFORCING STEEL SHALL CONFORM TO
- A.S.T.M. 615 GRADE 60. 5. INLET GRATES SHALL BE U.S. FOUNDRY DWG. OR EQUAL. (USF 4155-6210 TYPE "C", USF 6290 TYPE "E") TYPE "E" GRATE CAST IN TWO SECTIONS.
- 6. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER.

G.B.

D.B.



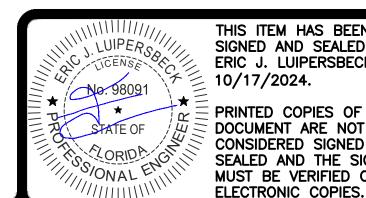
Federal Standards 595a. PAVEMENT MARKING FOR PUBLIC

TYPICAL PARKING SPACES NOT TO SCALE

SIDEWALK CURB RAMPS

10/17/2024

21



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ERIC J. LUIPERSBECK, P.E. ON 10/17/2024.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY



CHECKED

APPROVED

**REVIEWED FOR CODE COMPLIANCE** 

**TOWN OF GLEN RIDGE** 

**APPROVED BY JOSE RODRIGUEZ** 

PX-3697

GLEN RIDGE SELF STORAGE TOWN OF GLEN RIDGE, FLORIDA PAVING AND DRAINAGE DETAILS

:\AUTOCAD\_FILES\2023\23-142\CONSTRUCTION\23142S04-06\_PDD.dwg 10/17/2024 1:19 AM Eric Luipersbeck

SECTION 05, TOWNSHIP 44S., RANGE 43E

DRAWING NO.

23142S04

23-142

#### GENERAL NOTES:

- I. NOTIFY ENGINEER OF IN-FIELD CONFLICTS OR DESIGN DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK. 2. EXISTING WATER, SEWER AND DRAINAGE SYSTEMS ARE REPRESENTED AS DASHED LINES AND SHALL BE
- VERIFIED BY CONTRACTOR. 3. CONTRACTOR SHALL PROTECT ALL UTILITIES AND PUBLIC IMPROVEMENTS AND SHALL BE RESPONSIBLE FOR

ALL DAMAGES CAUSED DURING CONSTRUCTION AND SHALL REPAIR SAID DAMAGES AT HIS EXPENSE.

CONTRACTOR TO RESTORE ALL AREAS DISTURBED DURING CONSTRUCTION TO ORIGINAL OR BETTER

- 4. SUPPORT OR THE RELOCATION OF EXISTING STREET LIGHT POLES, POWER OR TELEPHONE POLES, EXISTING UTILITIES, IRRIGATION SYSTEMS, SIDEWALKS, WALLS, ETC. NECESSARY FOR COMPLETION OF THIS WORK ARE THE RESPONSIBILITY OF THE CONTRACTOR AT HIS EXPENSE.
- INFORMATION SHOWN ON THESE DRAWINGS AS TO THE LOCATION OF EXISTING UTILITIES HAS BEEN PREPARED FROM THE MOST RELIABLE DATA AVAILABLE TO THE ENGINEER. THIS INFORMATION IS NOT BE GUARANTEED, HOWEVER, AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION, CHARACTER AND DEPTH OF ANY EXISTING UTILITIES. ALL "AS-BUILT" INFORMATION INCLUDING LOCATION AND ELEVATION OF UTILITY STUB-OUTS TO BE FIELD VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION OR ORDERING OF STRUCTURES. NOTIFY ENGINEER OF DISCREPANCIES/CONFLICTS.
- 6. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS CONCERNING SIDEWALKS, RAMPS, STRIPING AND SIGNAGE, LIGHTING AND ELECTRICAL CONDUIT, ETC.
- 7. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS AND NOTIFY THE ENGINEER OF ANY DEVIATIONS PRIOR TO COMMENCING CONSTRUCTION.
- 8. SIDEWALKS TO BE FLUSH WITH YARD AREAS UNLESS OTHERWISE NOTED
- 9. ALL DRAINAGE CONSTRUCTION SHALL CONFORM TO FLORIDA DEPT. OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) AND TOWN OF GLEN RIDGE REQUIREMENTS.
- 10. GRADE ALL PAVEMENT AREAS TO CATCH BASINS. CONTRACTOR TO NOTIFY ENGINEER IF IN-FIELD CONDITIONS CHANGE, ARCHITECTURAL DETAILS WILL CREATE CONFLICTS WITH DRAINAGE DESIGN SHOWN, POTENTIAL EROSION PROBLEMS ARISE OR STANDING WATER OCCURS.
- 11. ALL ELEVATIONS SHOWN HEREON REFER TO N.A.V.D. 1988 TOPOGRAPHIC AND BOUNDARY SURVEY PROVIDED BY ASSOCIATED LAND SURVEYORS, INC. (561) 878-2102.
- 12. ALL DRAINAGE PIPE SHOWN AS R.C.P. SHALL BE REINFORCED CONCRETE PIPE CLASS III, WALL "B" AND CONFORMING TO FLORIDA DEPT. OF TRANSPORTATION SPECIFICATIONS.
- 13. CONTRACTOR SHALL PROVIDE ADEQUATE EQUIPMENT FOR THE REMOVAL OF STORM, SURFACE AND/OR SUBSURFACE WATER WHICH MAY ACCUMULATE IN THE EXCAVATION AREAS SO THAT IT WILL BE SUITABLY DRY FOR WORK REQUIRED.
- 14. NO OFF-SITE DISCHARGE FROM DEWATERING OPERATIONS SHALL BE PERMITTED UNLESS THE CONTRACTOR SECURES WRITTEN PERMISSION FROM THE GOVERNING AUTHORITIES.
- 15. ALL SUB-BASE UNDER ROADWAYS, PARKING LOTS, CURBS, ETC. SHALL BE COMPACTED TO NOT LESS THAN 98% OF MAXIMUM DENSITY AS DETERMINED BY A.A.S.H.T.O. T-180 PROCTOR.
- 16. WHERE ENCOUNTERED (OR SPECIFIED IN THE GEOTECHNICAL REPORT), MUCK/UNSUITABLE MATERIALS SHALL BE COMPLETELY REMOVED FROM PROPOSED PAVING AND BUILDING AREAS 10 FEET BEYOND THE EDGE OF PAVEMENT/BUILDING PAD EACH SIDE.
- 17. CONTRACTOR TO PROVIDE TEST REPORTS FROM AN INDEPENDENT LABORATORY FOR PROCTORS AND DENSITIES ON BASE, SUBGRADE AND PIPE BACKFILL.
- 18. CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPLETE PAVING AND DRAINAGE, WATER AND SEWER CONSTRUCTION RECORD INFORMATION TO THE ENGINEER.
- 19. CONTRACTOR SHALL ARRANGE FOR THE ENGINEER TO OBSERVE:
  - A. STORM SEWER AFTER GROUTING AND WHEN BACKFILL IS COMPLETED TO THE MIDPOINT OF THE PIPE. B. STRINGLINING OF SUBGRADE.
- C. STRINGLINING/BOARDING OF BASE.
- 20. THE CONTRACTOR SHALL FILL AND FINE GRADE ALL PLANTING AREAS, LEAVING THE FINISHED GRADE SMOOTH AND READY TO RECEIVE SOD OR OTHER PLANTING MATERIAL. WHERE SOD IS DESIRED, THE FINISHED GRADES SHALL BE TWO (2) INCHES LOWER TO ALLOW FOR THICKNESS OF THE GRASS. SPECIAL ATTENTION SHALL BE GIVEN ALONG EDGE OF PAVEMENT AND SIDEWALKS SO AS NOT TO TRAP WATER.
- 21. ANY SHELLROCK OR LIMEROCK PAVING BASE INSTALLED WITHIN PLANTING AREAS SHALL BE REMOVED IN ITS ENTIRETY PRIOR TO PLACING PLANTER AREA FILL.
- 22. ALL SWALE, RIGHT OF WAY AREAS AND YARD AREAS SHALL BE GRADED AND SEEDED OR SODDED IN ACCORDANCE WITH GOVERNING AGENCY STANDARDS. NO AREAS SHALL BE LEFT BARREN OR SUBJECT TO
- 23. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ADHERE TO ALL O.S.H.A. RULES AND FLORIDA LAWS RELATED TO TRENCH SAFETY.
- 24. CONTRACTOR SHALL ENSURE NO SEDIMENT OR DEBRIS LEAVES THE SITE DURING CONSTRUCTION IN ACCORDANCE WITH N.P.D.E.S. REQUIREMENTS (SILT FENCE, HAY BALES OR SOD APRONS AT INLETS, WASH ROCK EXIT. ETC. MAY BE REQUIRED TO MEET SAID REQUIREMENTS). CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION, IMPLEMENTATION AND CERTIFICATION OF ALL N.P.D.E.S. POLLUTION PREVENTION RELATED MEASURES (i.e. FILING OF AN N.O.I. POLLUTION PREVENTION PLAN MONITORING REPORTS, ETC.)
- 25. CONTRACTOR SHALL REFER TO LANDSCAPE PLANS FOR PLANTING AND BERMING REQUIREMENTS AND NOTIFY ENGINEER OF ANY CONFLICTS WITH THIS PLAN.
- 26. CONTRACTOR SHALL CONTACT PALM BEACH COUNTY TRAFFIC OPERATIONS AT (561) 233-3900) 48 HOURS PRIOR TO CONSTRUCTION, IF ANY WORK IS BEING DONE WITHIN 10 FEET OF A SIGNALIZED INTERSECTION. 27. ANY DAMAGE TO PBC-TRAFFIC I.T.S. FACILITIES CAUSED BY CONSTRUCTION OF THIS PROJECT MUST BE
- REPAIRED OR REPLACED TO ORIGINAL OR BETTER CONDITION BY THE PERMITEE AT NO COST TO PALM BEACH COUNTY. 28. PALM BEACH COUNTY (PBC) RESERVES THE RIGHT TO DETERMINE IF DAMAGED PBC FACILITIES WILL BE
- REPAIRED OR REPLACED.
- 29. CONSTRUCTION TESTING REQUIREMENTS: 1. DENSITY, THICKNESS AND F.B.V./L.B.R. FOR BASE AND SUBGRADE
  - a. ROADS MAXIMUM SPACING = 500 L.F.
  - b. PARKING LOT MAXIMUM SPACING = 6,000 S.F.
- 2. ASPHALT THICKNESS
  - a. ROADS MAXIMUM SPACING = 600 L.F.
- b. PARKING LOT MAXIMUM SPACING = 2,000 S.Y.
- TESTING SHALL BE TAKEN IN A STAGGERED PATTERN, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THERE SHALL BE A MINIMUM OF 4 EACH OF THE ABOVE TESTS FOR A PROJECT OR PORTION THEREOF.
- 3. BASE CHEMICAL AND SIEVE ANALYSIS, FROM SUPPLIER/PIT (DOT CERTIFICATION)
- 4. ASPHALT DESIGN MIX. IF REQUESTED BY THE ENGINEER, STABILITY TESTS WILL BE REQUIRED.
- 5. PIPELINE BACKFILL DENSITY TESTS
- ALL PIPE AND STRUCTURE TRENCHES SHALL BE BACKFILLED USING A MAX. OF 12" LIFTS. ALL BACKFILL MATERIAL SHALL BE CLEAN, DRY STRUCTURAL FILL, WITH NO DELETERIOUS OR ORGANIC MATERIAL PRESENT. - AT LEAST ONE TEST SHALL BE PERFORMED FOR EVERY 12" OF DEPTH, STARTING AT THE SPRINGLINE
- OF THE PIPE, COVERING THE 12" LAYER BELOW THE SPRINGLINE OF THE PIPE. - PIPE TRENCHES SHALL BE TESTED AT RANDOMLY SELECTED LOCATIONS ALONG THE LENGTH OF EACH PIPE RUN WITHIN EACH 300' INTERVAL (MAXIMUM) AND BETWEEN EACH SET OF TWO STRUCTURES IF A
- PIPE RUN SEPARATING THE TWO IS LESS THAN 300' IN LENGTH. - TESTS SHALL BE PERFORMED AT EVERY STRUCTURE BEGINNING AT THE BASE OF THE STRUCTURE (COVERING THE 12" BELOW THE BASE OF THE STRUCTURE) WITH ONE TEST FOR EVERY 12" LIFT. TESTS SHALL ALTERNATE FROM CORNER TO CORNER OR FROM SIDE TO SIDE AROUND THE STRUCTURE WITH
- WHERE OUTSIDE PAVED AREAS BY 10' OR MORE, ALL TESTS SHALL BE TAKEN WITHIN THE BOTTOM 3' OF TRENCH AND ONLY 1 TEST PER 300 L.F. IS REQUIRED.

#### MINIMUM SPACING REQUIREMENTS:

DEPTH OF CUT SPACING OF TESTS 0 - 6' 1 PER 300 L.F. 6 - 9' 2 PER 300 L.F. 9 - 12' 3 PER 300 L.F. 12 - 15' 4 PER 300 L.F. 15 – 18' 5 PER 300 L.F.

THE ABOVE REQUIREMENTS ARE THE MINIMUM AND ARE SUBJECT TO INCREASE BY THE GOVERNING AGENCIES. ALL TESTS AND LOCATIONS ARE SUBJECT TO REVIEW BY ENGINEER AND/OR GOVERNING AGENCIES, ADDITIONAL TESTS MAY BE REQUIRED BASED ON FIELD OBSERVATIONS OF CONSTRUCTION TECHNIQUES OR MATERIALS USED ON SITE.

#### **PBCWUD NOTES:**

#### **RECORD DRAWING NOTES:**

- 1.) RECORD DRAWINGS SHALL BE PREPARED IN THE STATE PLAN COORDINATE SYSTEM.
- 2.) ALL UTILITY FEATURES SHALL BE SHOWN IN THEIR AS-BUILT LOCATION.
- 3.) STATE PLANE COORDINATES SHALL BE DISPLAYED ON RECORD DRAWINGS FOR ALL FEATURES SPECIFIED IN PÉCWUD STANDARDS.
- 4.) STATE PLANE COORDINATES SHALL BE SHOWN ON PROPERTY CORNERS AS REQUIRED BY PBCWUD.

#### HYDRANT & HYDRANT SECURITY EQUIPMENT NOTES:

- 1.) THE EXISTING FIRE HYDRANT CAN BE RELOCATED PROVIDED IT IS IN ACCEPTABLE WORKING ORDER BASED ON THE PROJECT'S WUD INSPECTOR'S INSPECTION. IF NOT IN PROPER WORKING CONDITION A NEW FIRE HYDRANT WILL BE REQUIRED. IN EITHER CASE CAPTIVATOR CAPS ARE REQUIRED PER NOTE 2 BELOW.
- 2.) FIRE HYDRANT SHALL BE EQUIPPED WITH A SET OF AFC "CAPTIVATER" SECURITY CAPS. THE CAPS SHALL BÉ CHAINED TO THE HYDRANT BODY AND INSTALLED PRIOR TO ISSUANCE OF "CONSTRUCTION WATER RELEASE" CERTIFICATION. A SCHEDULED INSPECTION BY PBCWUD IS REQUIRED TO VERIFY THE INSTALLATION AND OPERATION OF THE CAPS.
- 3.) PLEASE NOTE THAT THE SECURITY CAPS CAN ONLY BE REMOVED USING SPECIAL WRENCHES. THE CÓNTRACTOR SHALL CONTACT THE PBCWUD INSPECTOR FOR ASSISTANCE IF ACCESS TO THE HYDRANT IS REQUIRED FOR FLUSHING OR TESTING PURPOSES.
- 4.) ALL NEW FIRE HYDRANTS ARE TO BE INSTALLED SO THE PUMPER NOZZLE IS 5.0' MIN WITH RAISED CURB OR 6.0' MIN WITHOUT RAISED CURB AND 12.0' MAX. FROM THE EDGE OF PAVEMENT.

- 1.) ALL WATER MAIN DUCTILE IRON PIPE AND PIPE FITTINGS SHALL BE PAINTED WITH A 4" WIDE CONTINOUS BLUE LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND IS LOCATED ALONG THE TOP OF THE PIPE. 2.) ALL WATER MAINS SHALL BE MARKED WITH ONE CONTINOUS STRIP OF 6" WIDE MAGNETIC BLUE CODED TAPE IMPRINTED WITH TWO (2) INCH HIGH LETTERING READING "CAUTION - POTABLE WATER LINE BURIED BELOW" AND LOCATED APPROXIMATELY TWELVE (12) INCHES ABOVE THE CROWN OF THE PIPE. THE WORDING SHALL OCCUR
- EVERY THREE (3) FEET.
- 3.) ALL WATER SERVICE BRASS FITTINGS ARE REQUIRED TO BE LEAD FREE. 4.) ALL EXISITNG PBCWUD FACILITIES (IE. VALVES) TO BE OPERATED BY PBCWUD PERSONNEL ONLY.

#### **GENERAL SEWER NOTE:**

- 1.) ON-SITE SEWER LATERALS AND LIFT STATION ARE PRIVATELY OWNED AND MAINTAINED.
- 2.) SEWER CLEANOUT MINI-MANHOLES ARE REQUIRED ON ALL CLEANOUTS WITHIN PAVEMENT AREAS.

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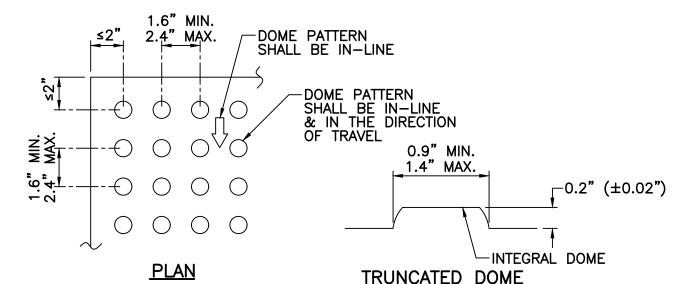
MUST BE VERIFIED ON ANY

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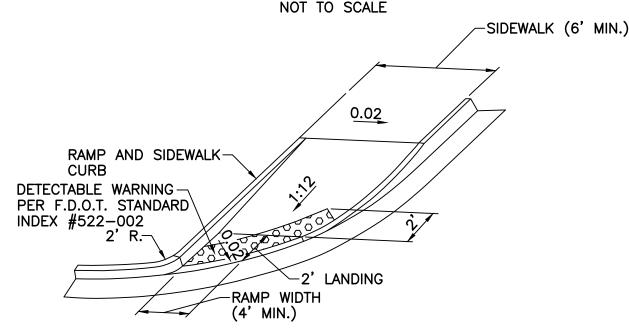
#### <u>GENERAL LANDSCAPE NOTE:</u>

F ANY NEW LANDSCAPE MATERIALS ARE INSTALLED AS PART OF THIS PROJECT THEN SOD ONLY WITH NO SHRUBS AND/OR TREES ARE TO BE INSTALLED WITHIN 5' OF ANY WATER METER AND WITHIN 7.5' OF ANY FIRE HYDRANT. TREES CANNOT BE INSTALLED WITHIN 10' OF A WUD WATER OR FORCE MAIN WITHOUT PRIOR PBCWUD APPROVAL AND THE INSTALLATION OF A ROOT BARRIER. ALSO IF ANY EXISTING TREES ARE LESS THAN 10' MINIMUM OF ANY NEW WATER OR FORCE MAIN A ROOT BARRIER IS REQUIRED TO BE INSTALLED OR TREE RELOCATED/REMOVED.

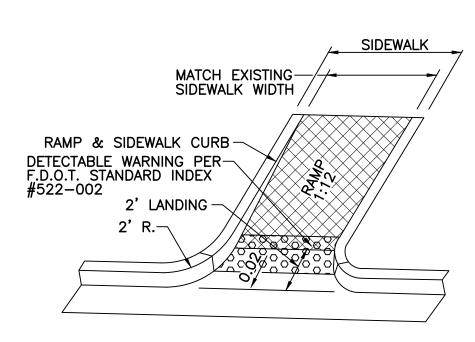


NOTE: ALL SIDEWALK CURB RAMPS SHALL HAVE DETECTABLE WARNING SURFACES THAT EXTEND THE FULL WIDTH OF THE RAMP AND IN THE DIRECTION OF TRAVEL 24" IN PUBLIC R/W, 36" ON-SITE FROM THE BACK OF CURB. CONTRACTOR SHALL VERIFY W/ INSTALLATION. THE DETECTABLE WARNING SURFACE SHALL HAVE A CONTRASTING COLOR (YELLOW OR APPROVED ALTERNATE)

CURB RAMP DETECTABLE WARNING DETAIL



HANDICAP RAMP DETAIL (CR-G) NOT TO SCALE



HANDICAP RAMP DETAIL (CR-E) NOT TO SCALE

1. THESE ARE THE MINIMUM GENERAL REQUIREMENTS FOR PEDESTRIAN RAMPS. SEE F.D.O.T. INDEX 522-002 FOR ADDITIONAL SIDEWALK CURB RAMP DETAILS.

2. DETECTABLE WARNING SURFACE REQUIRED ON ALL H/C RAMPS DETECTABLE WARNING SHALL BE CONTRASTING IN COLOR WITH TRUNCATED DOMES AND SHALL COMPLY WITH F.D.O.T. SPECS. 3. THIS DETAIL MAY NOT ADDRESS ALL IN-FIELD CONDITIONS AND SCENARIOS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER OF CONFLICTS AND TO INSURE THAT ALL CONSTRUCTION IS A.D.A. COMPLIANT AND IN CONFORMANCE WITH F.B.C. AND LOCAL GOVERNING AGENCY REQUIREMENTS.

TYPICAL HANDICAP RAMP DETAILS

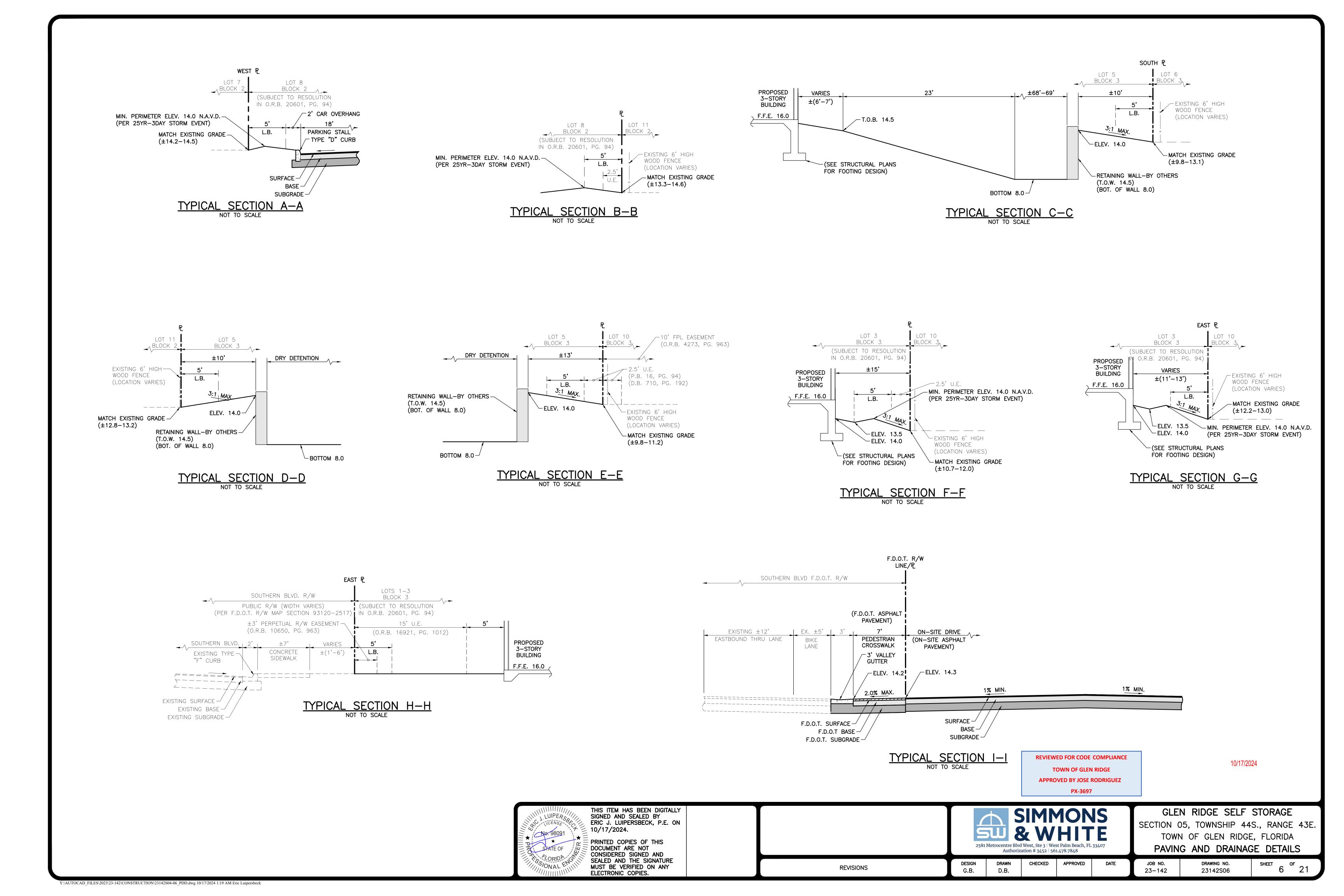
**REVIEWED FOR CODE COMPLIANCE TOWN OF GLEN RIDGE APPROVED BY JOSE RODRIGUEZ** PX-3697

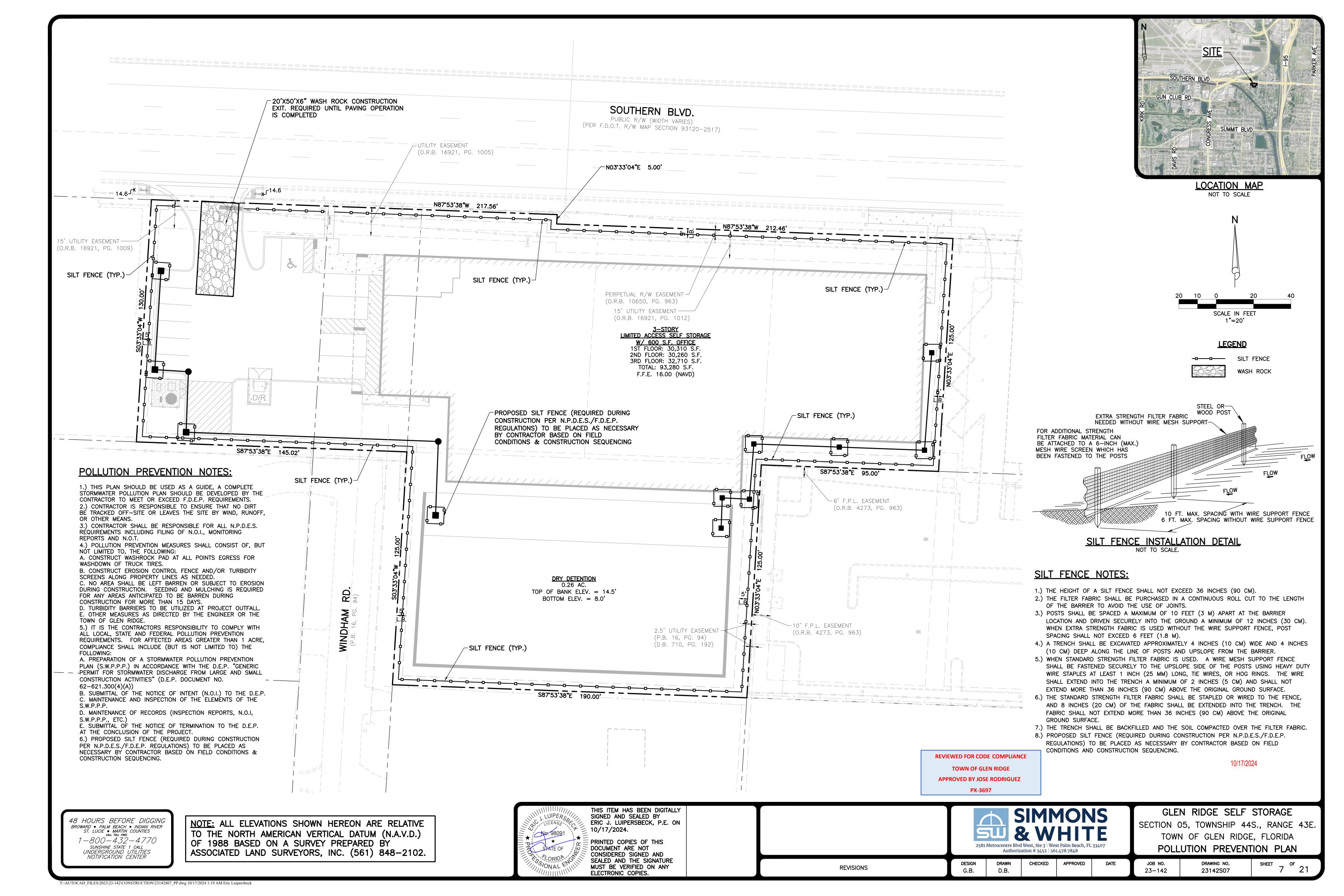
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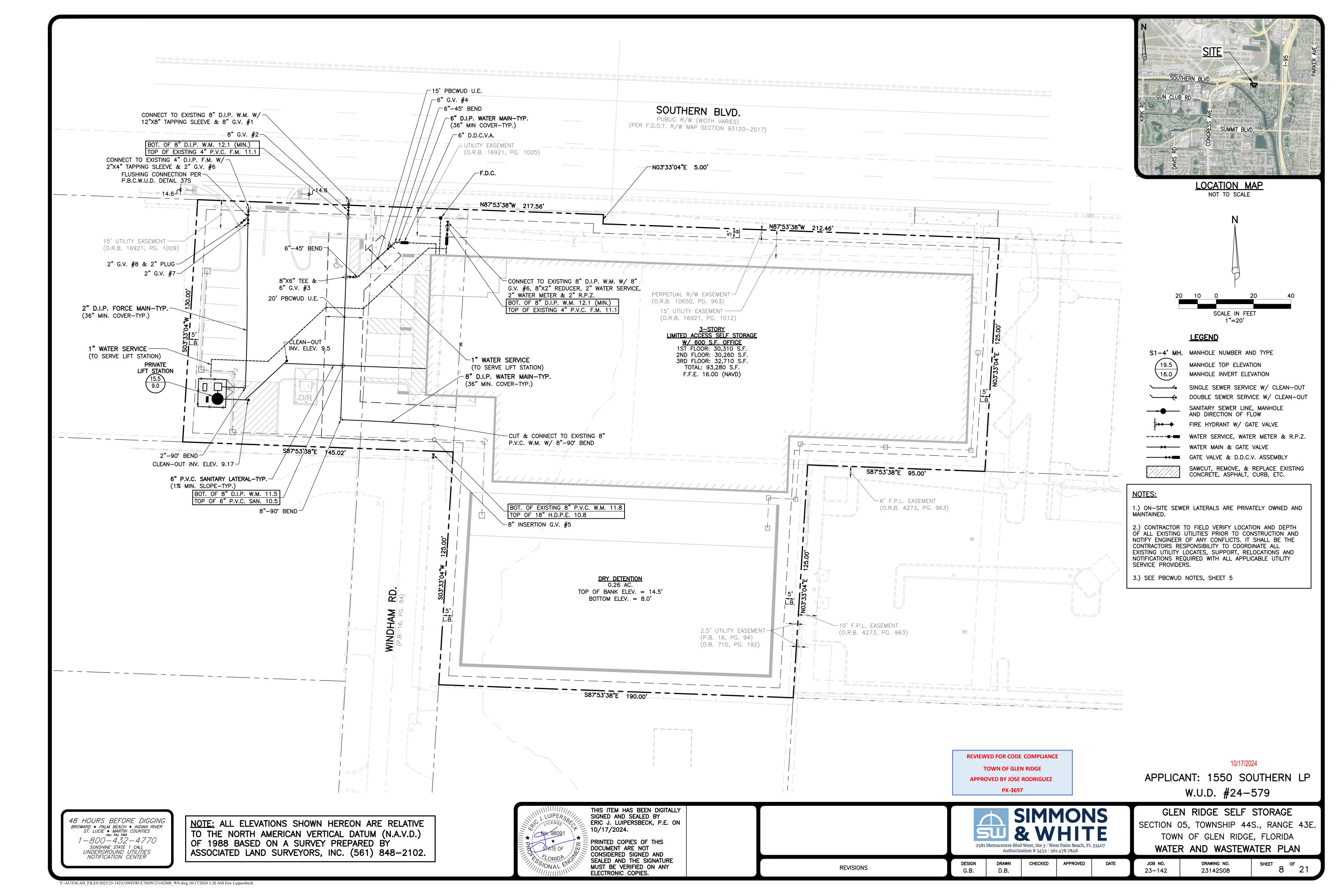


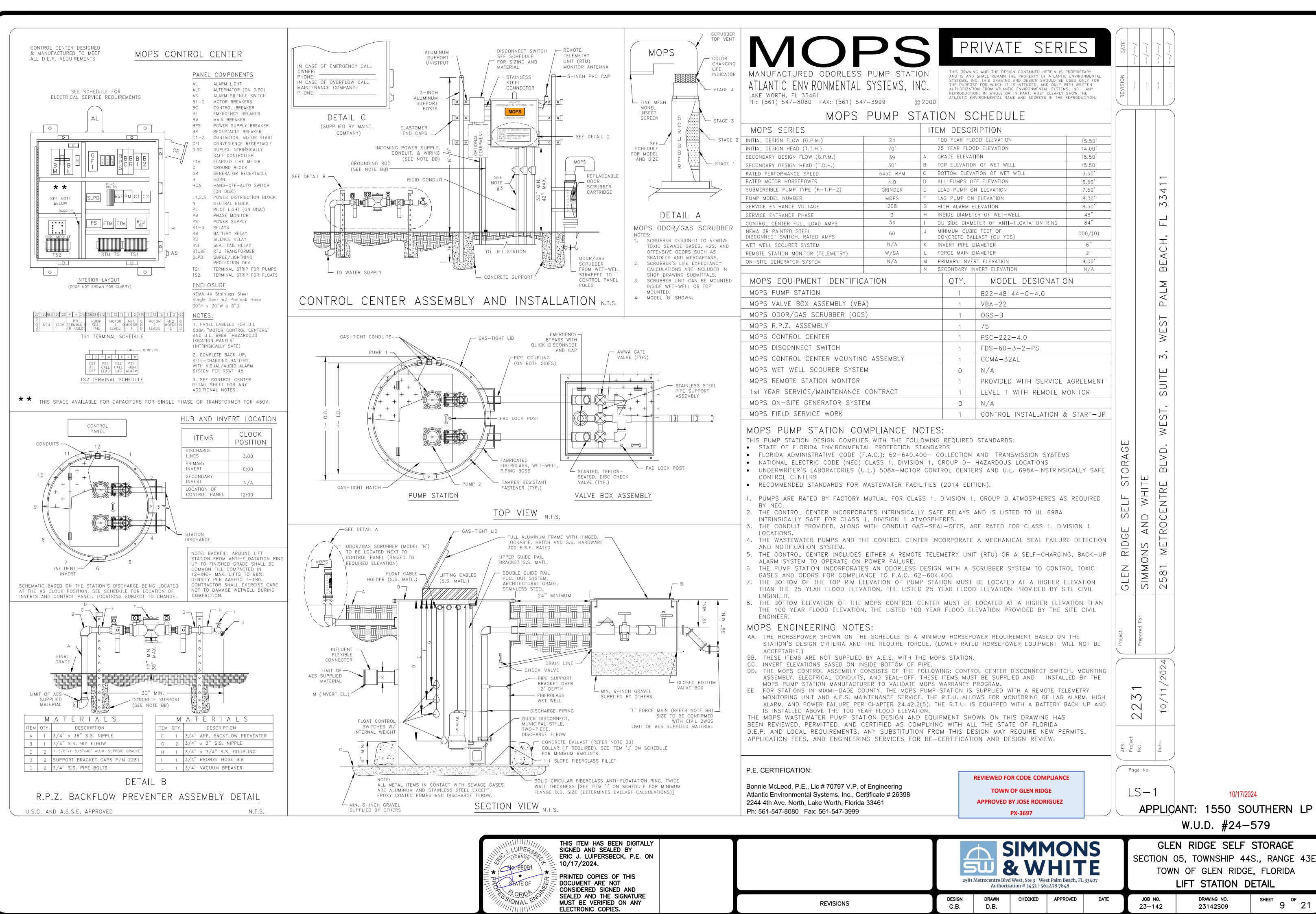
GLEN RIDGE SELF STORAGE SECTION 05, TOWNSHIP 44S., RANGE 43E TOWN OF GLEN RIDGE, FLORIDA PAVING AND DRAINAGE DETAILS

DESIGN CHECKED APPROVED JOB NO. DRAWING NO. **REVISIONS** 5 21 G.B. D.B. 23-142 23142S05









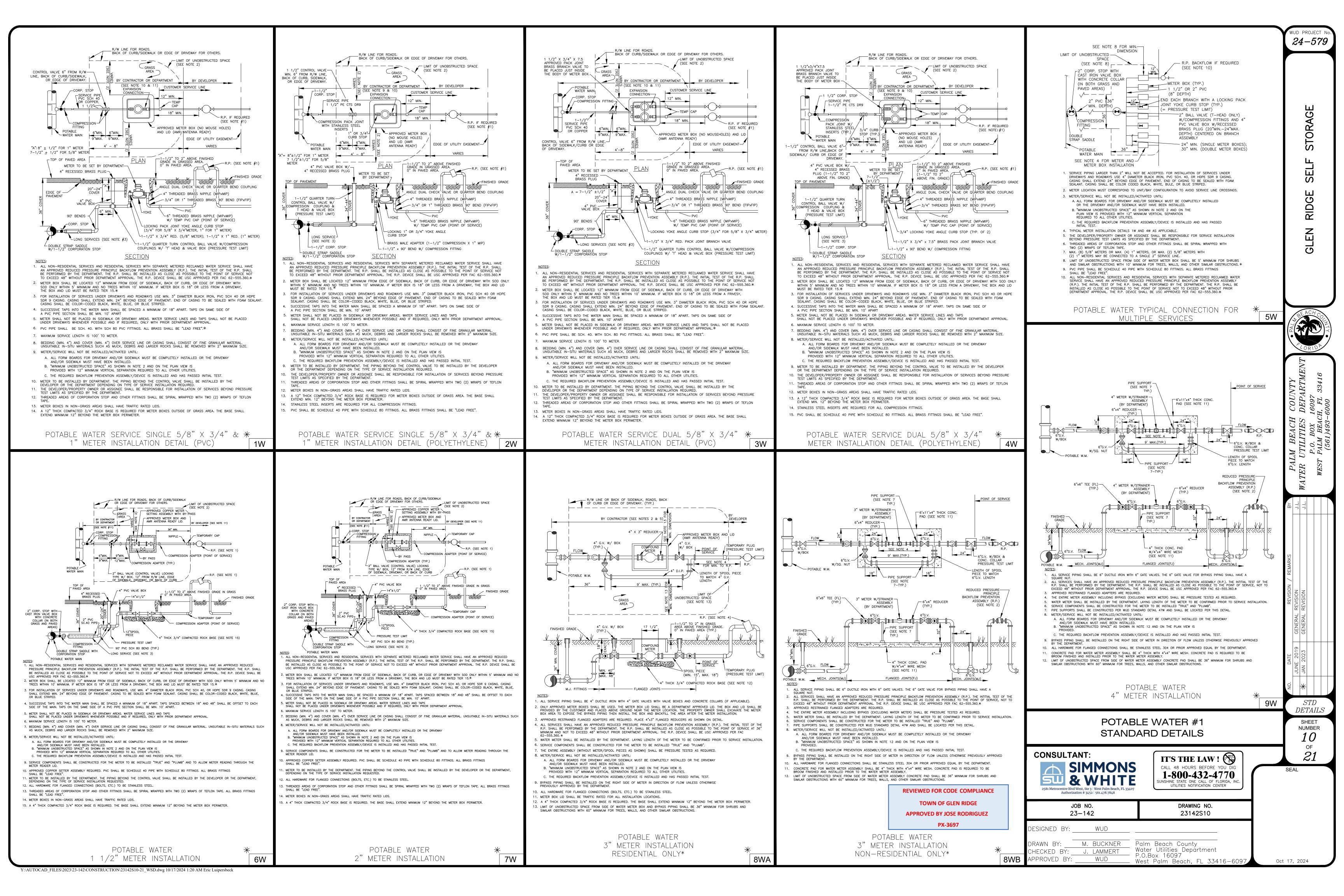
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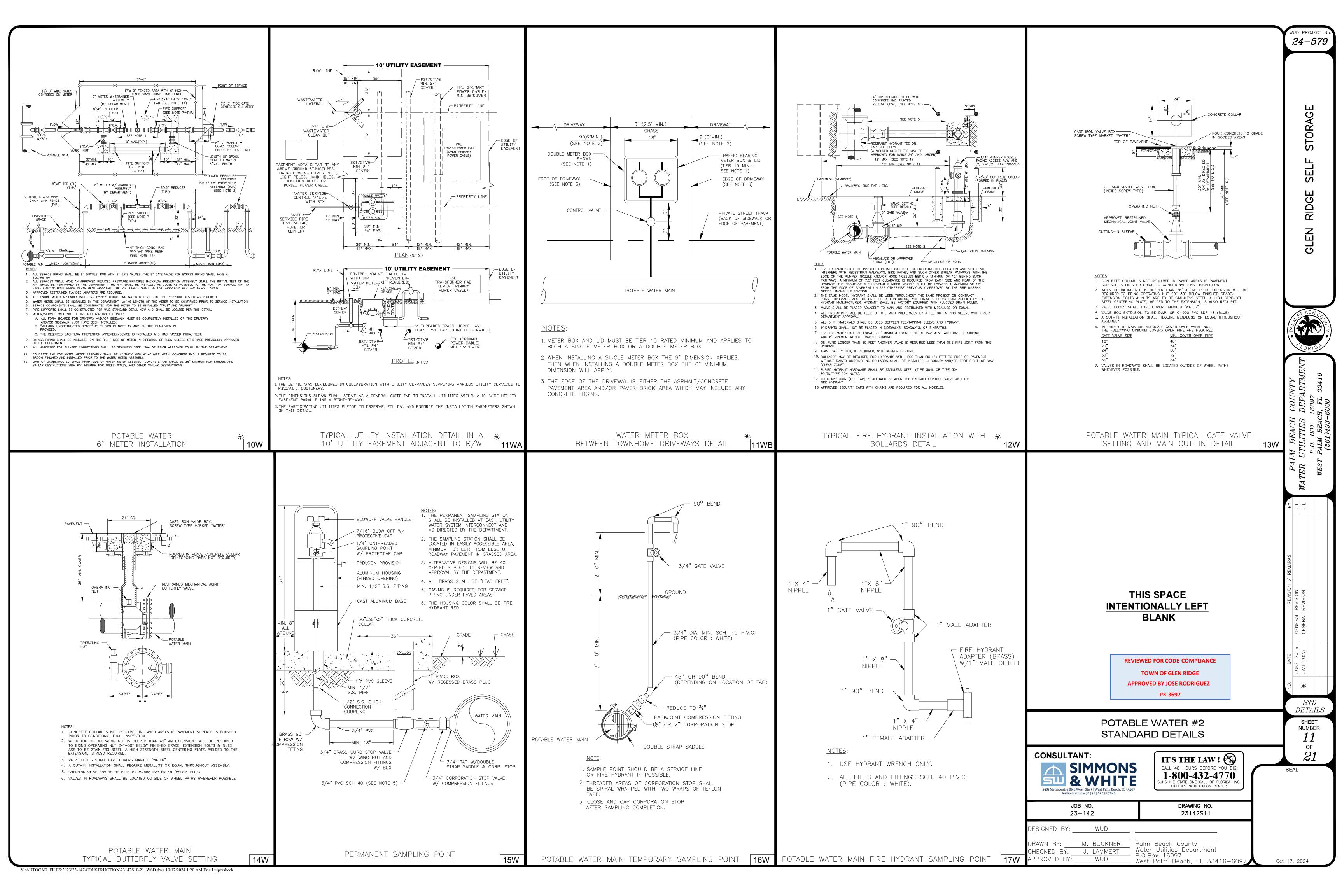
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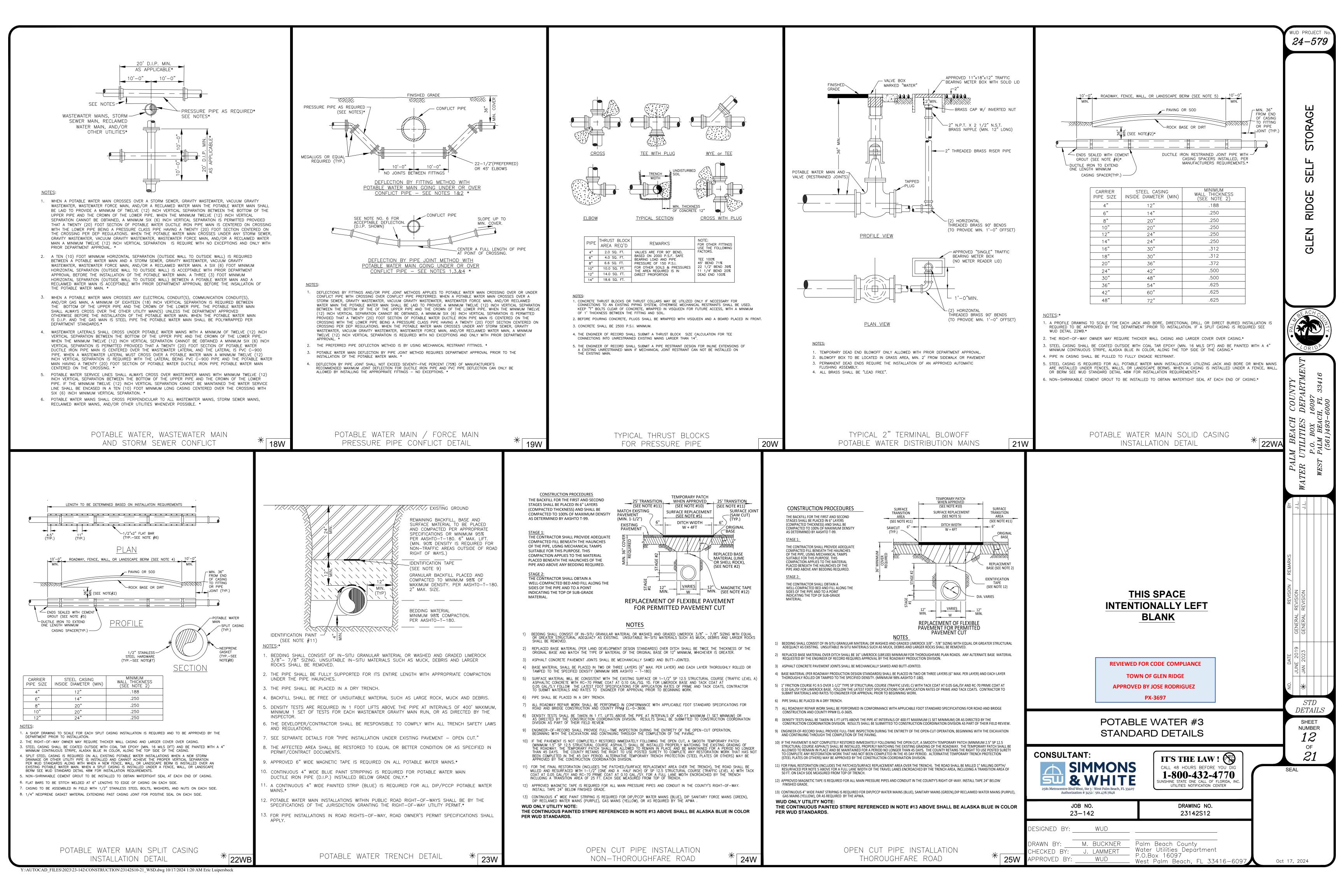
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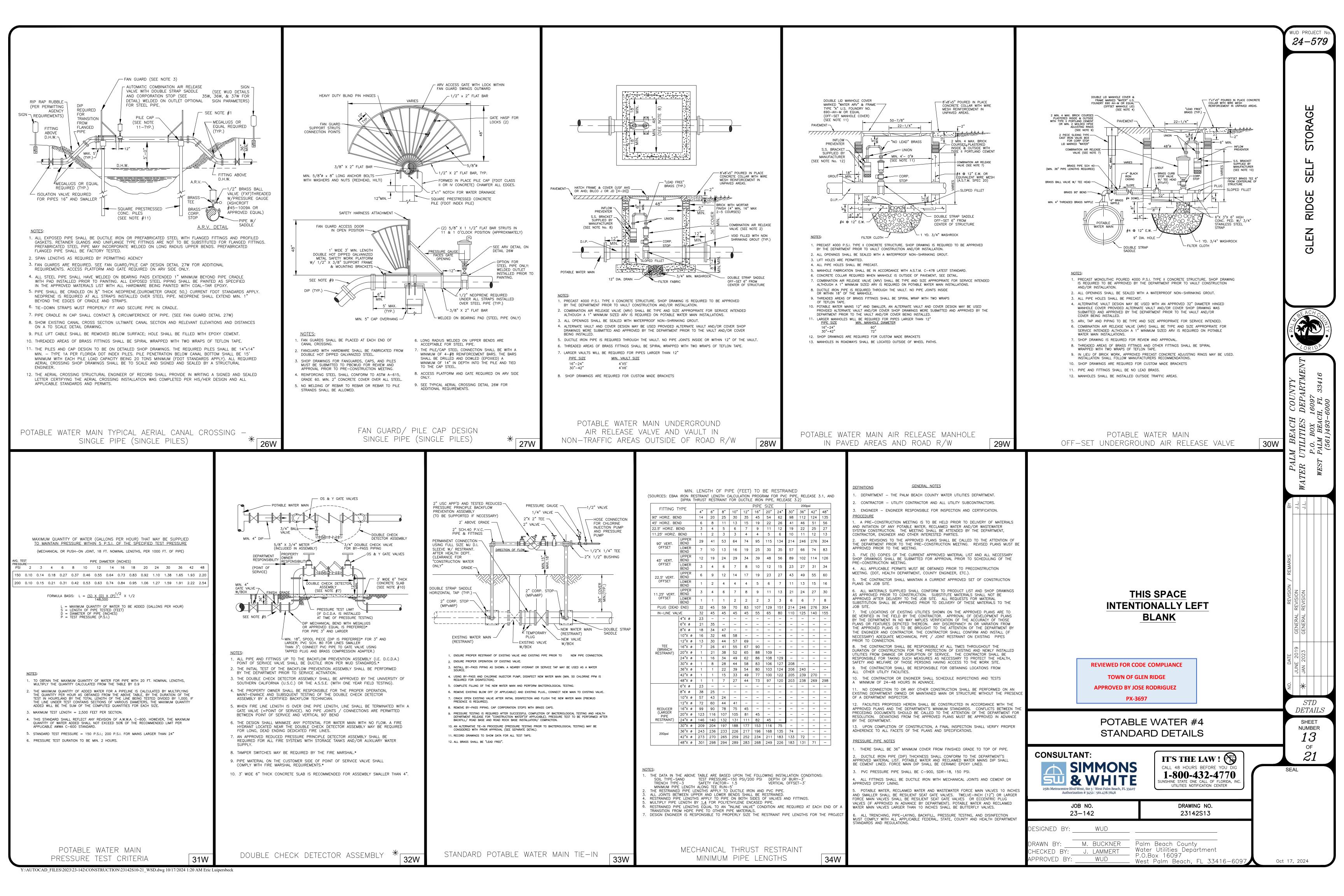
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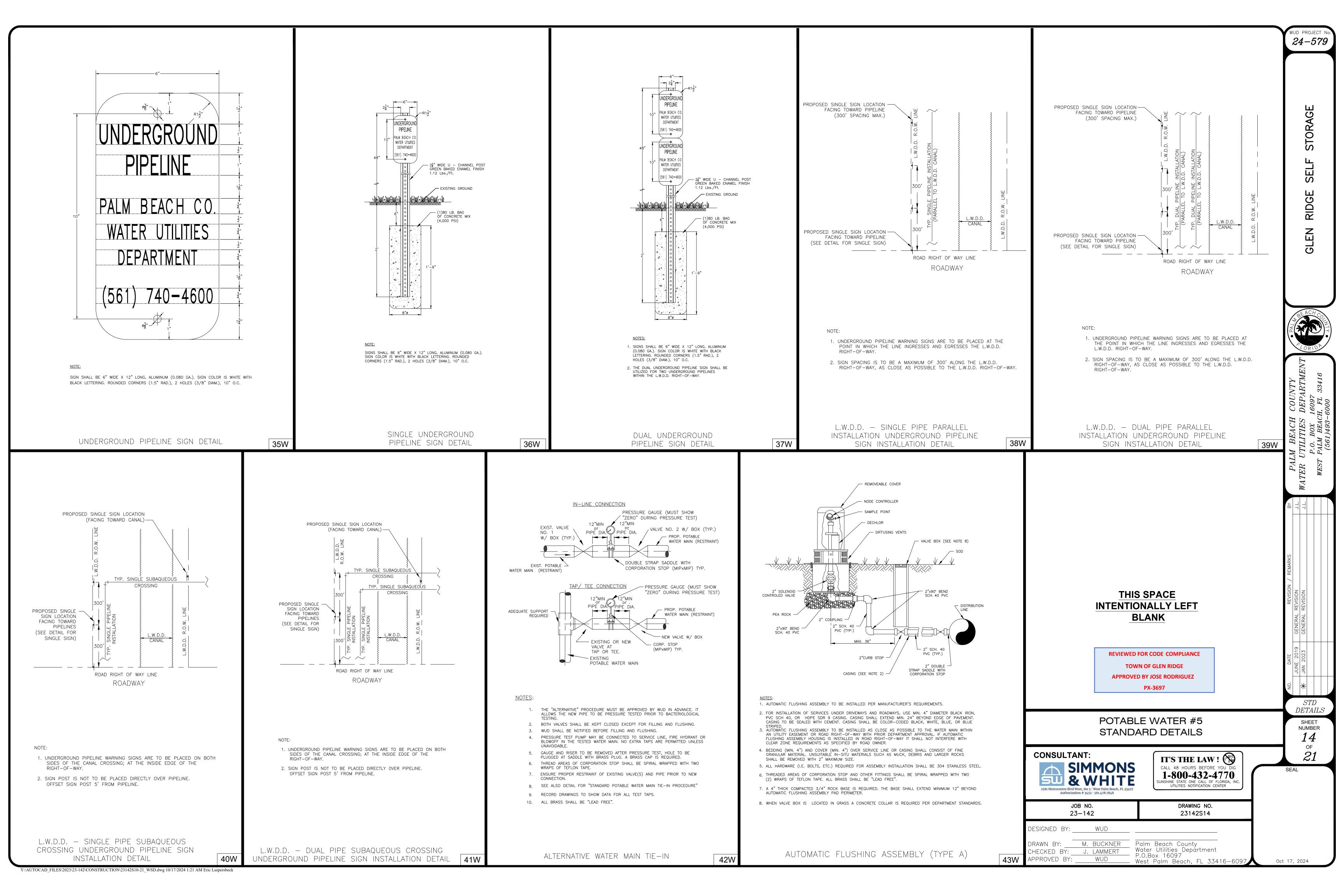
:\AUTOCAD\_FILES\2023\23-142\CONSTRUCTION\23142S09\_LSD.dwg 10/17/2024 1:20 AM Eric Luipersbeck

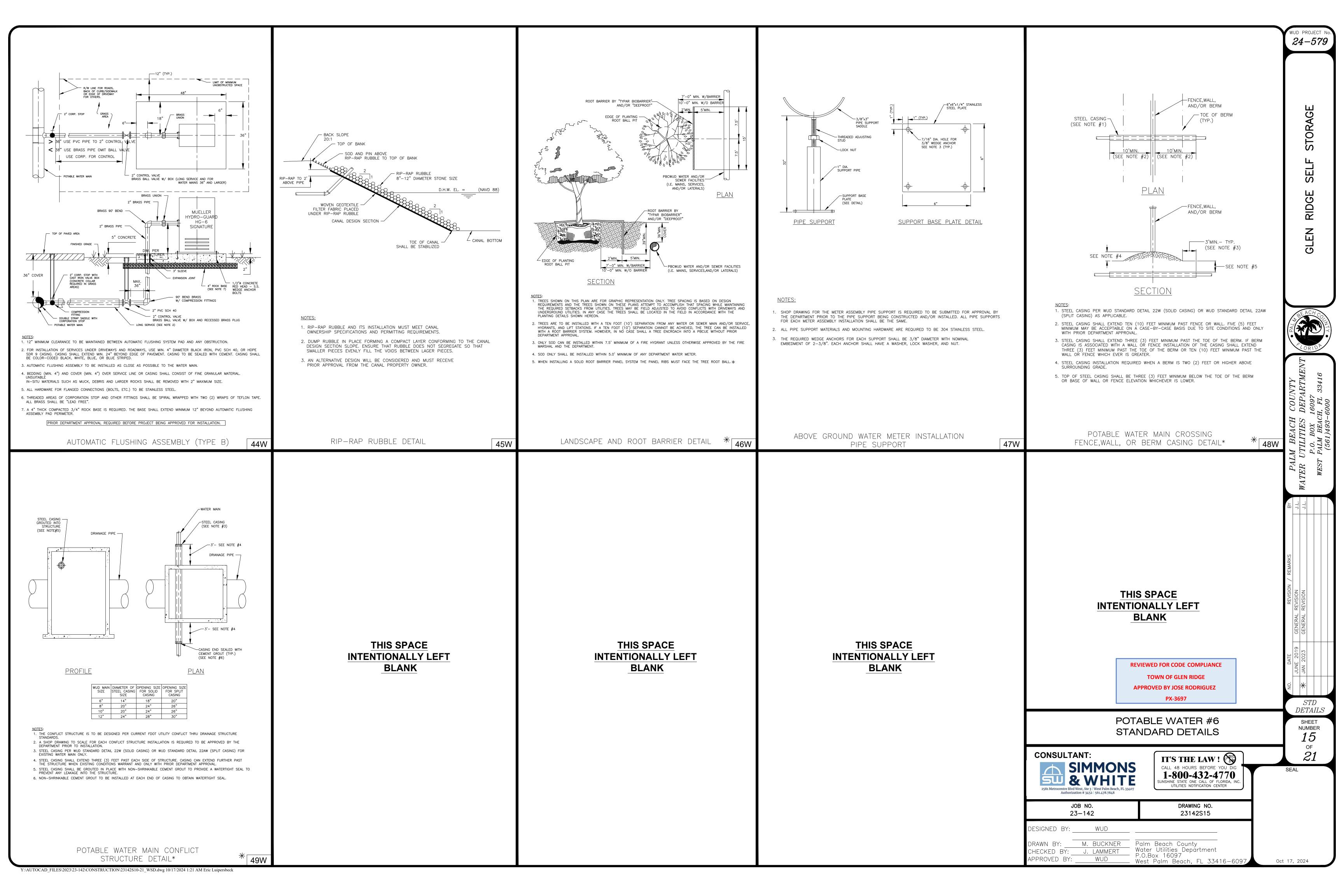












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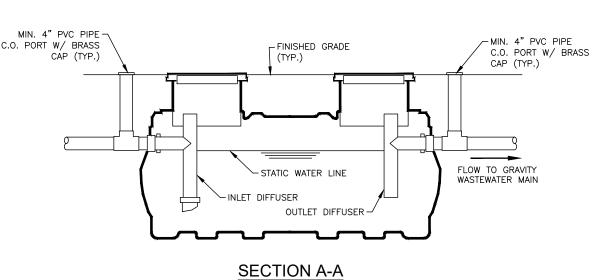
24-579

/ 4" TWO WAY C.O. W/BRASS CAP

FLOW -

/FINISHED GRADE

GAS/WATER TIGHT PICKABLE CAST IRON C.O. PORT W/ BRASS C.O. PORT W/ BRASS FLOW TO GRAVITY WASTEWATER MAIN TOP VIEW



1SA

CONCRETE COVER

(SEE DETAIL FOR TWO PIECE LID)

"GRFASE" FLUSH WITH

PAVEMENT OR MIN. 2

ABOVE NON-PAVED

←MIN. 4" P.V.C. PIPE

\_#5 @ 9" O.C. E.W. (TOP)

C.O. PORT

(1½" COVER FROM BOTTOM)

WASTEWATER MAIN.

FINISHED GRADE

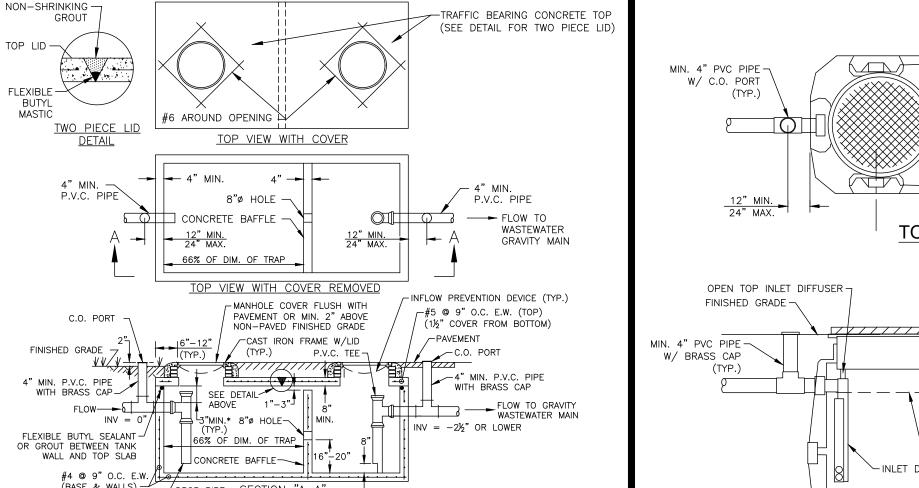
- INSPECTION PORTS (CLEANOUTS) ARE REQUIRED TO BE INSTALLED AT EACH END OF ANY TYPE OF INTERCEPTOR WITH PORTS TO REMAIN ACCESSIBLE TO FOR UTILITY INSPECTION AND SAMPLING.
- IN A TRAFFIC AREA, MINI-MANHOLES ARE REQUIRED TO BE INSTALLED ON ALL PORTS (CLEANOUTS). THE SURFACE SURROUNDING THE NTERCEPTOR SHALL BE SLOPED TO DRAIN STORM WATER AWAY FROM THE INTERCEPTOR.
- . IF AN INTERCEPTOR NEEDS TO BE INSTALLED IN DOORS DUE TO EXISTING SITE CONDITIONS, PRIOR DEPARTMENT APPROVAL IS REQUIRED WITH IN DOOR INSTALLATIONS APPROVED ON A CASE BY CASE BASIS.
- . THE PROPERTY OWNER/CUSTOMER SHALL BE RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE INTERCEPTOR.

OIL/ GREASE INTERCEPTOR

FIBERGLASS STRUCTURE ONLY

- 5. EACH FACILITY WITH AN OIL/GREASE INTERCEPTOR SHALL HAVE A DEDICATED (NOT SHARED) INTERCEPTOR WITH THEIR POTABLE WATER SERVICE INDIVIDUALLY METERED THROUGH THE DEPARTMENT.
- 6. SEE WUD STANDARD DETAIL 1SA FOR CONCRETE STRUCTURE TYPE OIL/GREASE INTERCEPTOR INSTALLATIONS

1SB



(BASE & WALLS) ZDROP PIPE SECTION "A-A" 1. SAND/OIL INTERCEPTORS SHALL BE WATERTIGHT AND SHALL BE BUILT OF PRECAST CONCRETE WHICH HAS A DESIGN COMPRESSIVE STRENGTH OF MINIMUM 3000 PSI AFTER 28 DAYS CURE. THE DESIGN, SIZING AND CONSTRUCTION MUST CONFORM TO THIS STANDARD AND TO ALL APPLICABLE BUILDING CODES, HEALTH DEPARTMENT REQUIREMENTS AND REGULATIONS, INCLUDING, BUT NOT LIMITED TO CHAPTER 64E-6, FLORIDA ADMINISTRATIVE CODE. WALL AND SLAB THICKNESS SHOWN ARE MINIMUMS, AND SHALL BE DETERMINED BY THE OWNER'S ENGINEER. THE CONCRETE BOX SHALL BE MONOLITHIC POURED AND SHALL HAVE A PRECAST HOLE ON EACH END ONLY FOR LATERAL. THE PRECAST HOLES SHALL HAVE CAST—IN BOOTS WHENEVER POSSIBLE.

- 2. AN ALTERNATIVE TYPE OF INTERCEPTOR STRUCTURE MAY BE INSTALLED ONLY WITH PRIOR DEPARTMENT APPROVAL. SHOP DRAWINGS ARE REQUIRED TO BE SUBMITTED AND APPROVED BY THE DEPARTMENT PRIOR TO THE PRE-CONSTRUCTION MEETING FOR ALL INTERCEPTORS. 3. INSPECTION PORTS (CLEAN OUTS) ARE REQUIRED TO BE INSTALLED AT EACH END OF ANY TYPE OF INTERCEPTOR WITH PORTS TO REMAIN EASILY ACCESSIBLE FOR UTILITY INSPECTION AND SAMPLING.
  4. THE INTERCEPTOR SHALL BE LOCATED IN GRASS AREA/NON-TRAFFIC AREA WHENEVER POSSIBLE. THE SURFACE SURROUNDING THE INTERCEPTOR SHALL BE SLOPED TO DRAIN STORM WATER AWAY FROM THE INTERCEPTOR. 5. THE CAPACITY DETERMINATION FOR THE INTERCEPTOR IS THE RESPONSIBILITY OF THE OWNER/CUSTOMER. THE MINIMUM VOLUME OF A SAND/OIL INTERCEPTOR SHALL BE 750 GALLONS. WHEN THE REQUIRED EFFECTIVE CAPACITY
- OF THE SAND/OIL INTERCEPTOR IS GREATER THAN 750 GALLONS, INSTALLATION OF SINGLE COMPARTMENT SAND/OIL INTERCEPTORS IN SERIES IS REQUIRED. 6. THE PROPERTY OWNER/CUSTOMER SHALL BE RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE 7. SAND/OIL INTERCEPTOR SHALL NOT BE USED FOR THE PURPOSE OF INTERCEPTION OF GREASE FROM FOOD HANDLING ESTABLISHMENTS.
- 8. EACH FACILITY REQUIRED TO HAVE A SAND/OIL INTERCEPTOR SHALL HAVE A SEPERATE INTERCEPTOR AND SHALL BE INDIVIDUALLY METERED THROUGH THE DEPARTMENT. 9. MANHOLE LIDS SHALL BE MACHINED TO ACCEPT INFLOW PREVENTER.

SAND/ OIL INTERCEPTOR

CONCRETE STRUCTURE

MATCH EXISTING PAVEMENT

(MIN. 1-1/2")

EXISTING PAVEMENT

BEDDING SHALL CONSIST OF IN-SITU GRANULAR MATERIAL OR WASHED AND GRADED LIMEROCK 3/8" - 7/8" SIZING WITH EQUAL OR GREATER STRUCTURAL ADEQUACY AS EXISTING. UNSUITABLE IN-SITU MATERIALS SUCH AS MUCK, DEBRIS AND LARGER ROCKS

REPLACED BASE MATERIAL (PER LAND DEVELOPMENT DESIGN STANDARDS) OVER DITCH SHALL BE TWICE THE THICKNESS OF THE

ORIGINAL BASE AND MATCH`THE TYPE OF MATERIAL OF THE ORIGINAL BÁSE OR 12" MINIMUM, WHICHEVER IS GREATER.

4) BASE MATERIAL SHALL BE PLACED IN TWO OR THREE LAYERS (6" MAX. PER LAYER) AND EACH LAYER THOROUGHLY ROLLED OR TAMPED TO THE SPECIFIED DENSITY (MINIMUM 98% AASHTO - T-180)

5) SURFACE MATERIAL WILL BE CONSISTENT WITH THE EXISTING SURFACE OR 1-1/2" SP 12.5 STRUCTURAL COURSE (TRAFFIC LEVEL A) ASPHALTIC CONCRETE WITH RC-70 PRIME COAT AT 0.10 GAL/SQ. YD. FOR LIMEROCK BASE AND TACK COAT AT 0.05 GAL/S.Y FOLLOW THE LATEST FDOT SPECIFICATIONS FOR APPLICATION RATES OF PRIME AND TACK COATS, CONTRACTOR TO SUBMIT MATERIALS AND RATES TO ENGINEER FOR APPROVAL PRIOR TO BEGINNING WORK.

7) ALL ROADWAY REPAIR WORK SHALL BE PERFORMED IN CONFORMANCE WITH APPLICABLE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND COUNTY PPM# EL-0-3606.

9) ENGINEER-OF-RECORD SHALL PROVIDE FULL-TIME INSPECTION DURING THE ENTIRETY OF THE OPEN-CUT OPERATION, BEGINNING WITH THE EXCAVATION AND CONTINUING THROUGH THE COMPLETION OF THE PAVING.

10) IF THE PAVEMENT IS NOT COMPLETELY RESTORED IMMEDIATELY FOLLOWING THE OPEN CUT, A SMOOTH TEMPORARY PATCH

B) DENSITY TESTS SHALL BE TAKEN IN 1 FT. LIFTS ABOVE THE PIPE AT INTERVALS OF 400 FT MAXIMUM (1 SET MINIMUM) OR AS DIRECTED BY THE CONSTRUCTION COORDINATION DIVISION. RESULTS SHALL BE SUBMITTED TO CONSTRUCTION COORDINATION DIVISION AS PART OF THEIR FIELD REVIEW.

(MINIMUM 1.5" SP 12.5 STRUCTURAL COURSE ASPHALT) SHALL BE INSTALLED PROPERLY MATCHING THE EXISTING GRADING OF THE ROADWAY. THE TEMPORARY PATCH SHALL BE ALLOWED TO REMAIN IN PLACE AND BE MAINTAINED FOR A PERIOD NO LONGER THAN 45 DAYS. THE COUNTY RETAINS THE RIGHT TO USE POSTED SURETY TO COMPLETE ANY RESTORATION WORK THAT HAS NOT

BEEN COMPLETED IN THE 45 DAY PERIOD. ALTERNATIVE TEMPORARY TRENCH PROTECTION (STEEL PLATES OR OTHERS) MAY BE APPROVED BY THE CONSTRUCTION COORDINATION DIVISION.

11) FOR THE FINAL RESTORATION (INCLUDES THE PATCHED/SURFACE REPLACEMENT AREA OVER THE TRENCH), THE ROAD SHALL BE MILLED AND RESURFACED WITH 1-1/2" (ONE AND A HALF INCH) OF SP 12.5 STRUCTURAL COURSE (TRAFFIC LEVEL A) WITH TACK COAT AT 0.05 GAL/SY AND RC-70 PRIME COAT AT 0.10 GAL./SY. FOR A FULL LANE WIDTH ENCROACHED BY THE TRENCH INCLUDING A TRANSITION AREA OF 25 FT. EACH SIDE MEASURED FROM TOP OF TRENCH.

3) ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED AND BUTT-JOINTED.

TEMPORARY PATCH

SURFACE REPLACEMENT

(SEE NOTE #5)

DITCH WIDTH

W + 4FT

REPLACEMENT OF FLEXIBLE PAVEMENT

FOR PERMITTED PAVEMENT CUT

WHEN APPROVED (SEE NOTE #10)

10. SEE WUD STANDARD DETAIL 2SB FOR FIBERGLASS TYPE SAND/OIL INTERCEPTOR INSTALLATIONS.\*

THE BACKFILL FOR THE FIRST AND SECOND

STAGES SHALL BE PLACED IN 6" LAYERS

(COMPACTED THICKNESS) AND SHALL BE

AS DETERMINED BY AASHTO T-99.

SUITABLE FOR THIS PURPOSE, THIS

THE CONTRACTOR SHALL OBTAIN A

SIDES OF THE PIPE AND TO A POINT

INDICATING THE TOP OF SUB-GRADE

6) PIPE SHALL BE PLACED IN A DRY TRENCH.

COMPACTED TO 100% OF MAXIMUM DENSITY

THE CONTRACTOR SHALL PROVIDE ADEQUATE

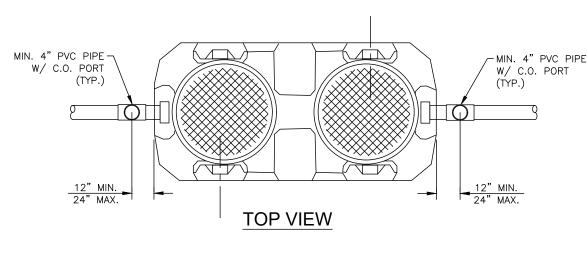
COMPACTED FILL BENEATH THE HAUNCHES OF THE PIPE, USING MECHANICAL TAMPS

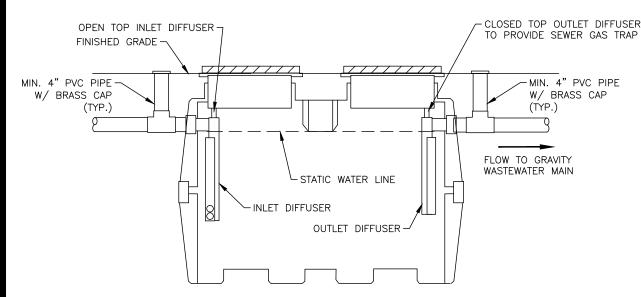
COMPACTION APPLIES TO THE MATERIAL

PLACED BENEATH THE HAUNCHES OF THE

PIPE AND ABOVE ANY BEDDING REQUIRED.

WELL-COMPACTED BED AND FILL ALONG THE





#### SECTION A-A

2SA

SURFACE JOIN

REPLACED BASE

OR SHELL ROCK

(SEE NOTE #2)

- INSPECTION PORTS (CLEANOUTS) ARE REQUIRED TO BE INSTALLED AT EACH END OF ANY TYPE OF INTERCEPTOR WITH PORTS TO REMAIN ACCESSIBLE TO FOR UTILITY INSPECTION AND SAMPLING.
- THE INTERCEPTOR PORTS (CLEANOUTS) SHALL BE LOCATED OUTSIDE AND IN A NON-TRAFFIC AREA WHEREVER POSSIBLE. IF INSTALLED IN A TRAFFIC AREA, MINI-MANHOLES ARE REQUIRED TO BE INSTALLED ON ALL PORTS (CLEANOUTS). THE SURFACE SURROUNDING THE INTERCEPTOR SHALL BE SLOPED TO DRAIN STORM WATER AWAY FROM THE INTERCEPTOR.
- 8. IF AN INTERCEPTOR NEEDS TO BE INSTALLED IN DOORS DUE TO EXISTING SITE CONDITIONS, PRIOR DEPARTMENT APPROVAL IS REQUIRED WITH IN DOOR INSTALLATIONS APPROVED ON A CASE BY CASE BASIS.
- I. THE PROPERTY OWNER/CUSTOMER SHALL BE RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE INTERCEPTOR.
- 5. EACH FACILITY WITH AN SAND/OIL INTERCEPTOR SHALL HAVE A DEDICATED (NOT SHARED) INTERCEPTOR WITH THEIR POTABLE WATER SERVICE INDIVIDUALLY METERED THROUGH THE DEPARTMENT.
- 6. SEE WUD STANDARD DETAIL 2SA FOR CONCRETE STRUCTURE TYPE SAND/OIL INTERCEPTOR INSTALLATIONS.

CONSTRUCTION PROCEDURES

(COMPACTED THICKNESS) AND SHALL BE COMPACTED TO 100% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.

THE CONTRACTOR SHALL PROVIDE ADEQUATE THE CONTRACTOR SHALL PROVIDE ADEQUA COMPACTED FILL BENEATH THE HAUNCHES OF THE PIPE, USING MECHANICAL TAMPS SUITABLE FOR THIS PURPOSE. THIS COMPACTION APPLIES TO THE MATERIAL PLACED BENEATH THE HAUNCHES OF THE

PIPE AND ABOVE ANY BEDDING REQUIRE

WELL-COMPACTED BED AND FILL ALONG THE SIDES OF THE PIPE AND TO A POINT

THE CONTRACTOR SHALL OBTAIN A

6) PIPE SHALL BE PLACED IN A DRY TRENCH.

INDICATING THE TOP OF SUB-GRADE

STAGES SHALL BE PLACED IN 6" LAYER

1) BEDDING SHALL CONSIST OF IN-SITU GRANULAR MATERIAL OR WASHED AND GRADED LIMEROCK 3/8" - 7/8" SIZING WITH EQUAL OR GREATER STRUCTURAL

) REPLACED BASE MATERIAL OVER DITCH SHALL BE 16" LIMEROCK (LBR100) MINIMUM FOR THOROUGHFARE PLAN ROADS. ANY ALTERNATE BASE MATERIAL REQUESTED BY THE ENGINEER OF RECORD REQUIRES APPROVAL BY THE ROADWAY PRODUCTION DIVISION.

4) BASE MATERIAL (PER ROADWAY PRODUCTION DESIGN STANDARDS) SHALL BE PLACED IN TWO OR THREE LAYERS (6" MAX. PER LAYER) AND EACH LAYER

5) 1" FRICTION COURSE FC-9.5 OVER 1-1/2" TYPE SP STRUCTURAL COURSE (TRAFFIC LEVEL C) WITH TACK COAT AT 0.05 GAL/SY AND RC-70 PRIME COAT AT 0.10 GAL/SY FOR LIMEROCK BASE. FOLLOW THE LATEST FDOT SPECIFICATIONS FOR APPLICATION RATES OF PRIME AND TACK COATS. CONTRACTOR TO SUBMIT MATERIALS AND RATES TO ENGINEER FOR APPROVAL PRIOR TO BEGINNING WORK.

7) ALL ROADWAY REPAIR WORK SHALL BE PERFORMED IN CONFORMANCE WITH APPLICABLE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND COUNTY PPM# EL-0-3605.

8) DENSITY TESTS SHALL BE TAKEN IN 1 FT LIFTS ABOVE THE PIPE AT INTERVALS OF 400 FT MAXIMUM (1 SET MINIMUM) OR AS DIRECTED BY THE CONSTRUCTION COORDINATION DIVISION. RESULTS SHALL BE SUBMITTED TO CONSTRUCTION COORDINATION DIVISION AS PART OF THEIR FIELD REVIEW.

9) ENGINEER-OF-RECORD SHALL PROVIDE FULL-TIME INSPECTION DURING THE ENTIRETY OF THE OPEN-CUT OPERATION, BEGINNING WITH THE EXCAVATION AND CONTINUING THROUGH THE COMPLETION OF THE PAVING.

IF THE PAVEMENT IS NOT COMPLETELY RESTORED IMMEDIALLED FOLLOWING THE OPEN CUT, A SMOOTH TEMPORARY PALCH (IMMINIMUM 2.5 SP 12.5 SP 12.5 STRUCTURAL COURSE ASPHALT) SHALL BE INSTALLED, PROPERLY MATCHING THE EXISTING GRADING OF THE ROADWAY. THE TEMPORARY PATCH SHALL BE ALLOWED TO REMAIN IN PLACE AND BE MAINTAINED FOR A PERIOD NO LONGER THAN 45 DAYS. THE COUNTY RETAINS THE RIGHT TO USE POSTED SURETY

O COMPLETE ANY RESTORATION WORK THAT HAS NOT BEEN COMPLETED IN THE 45 DAY PERIOD. ALTERNATIVE TEMPORARY TRENCH PROTECTION

11) FOR FINAL RESTORATION (INCLUDES THE PATCHED/SURFACE REPLACEMENT AREA OVER THE TRENCH). THE ROAD SHALL BE MILLED 1" MILLING DEPTH/
RESURFACED PER NOTE 5 ABOVE FOR A FULL LANE WIDTH OF THE TRAVEL LANES ENCROACHED BY THE TRENCH AREA, INCLUDING A TRANSITION AREA OF
50 FT. ON EACH SIDE MEASURED FROM TOP OF TRENCH.

13) CONTINUOUS 4" WIDE PAINT STRIPING IS REQUIRED FOR DIP/PCCP WATER MAINS (BLUE), SANITARY MAINS (GREEN), DIP RECLAIMED WATER MAINS (PURPLE), GAS MAINS (YELLOW), OR AS REQUIRED BY THE APWA.

THE CONTINUOUS PAINTED STRIPE REFERENCED IN NOTE #13 ABOVE SHALL BE EUCLID GREEN IN COLOR

12) APPROVED MAGNETIC TAPE IS REQUIRED FOR ALL MAIN PRESSURE PIPES AND CONDUIT IN THE COUNTY'S RIGHT-OF-WAY. INSTALL TAPE 24" BELOW FINISHED GRADE.

LO) IF THE PAVEMENT IS NOT COMPLETELY RESTORED IMMEDIATELY FOLLOWING THE OPEN CUT, A SMOOTH TEMPORARY PATCH (MINIMUM 2.5" SP 12.5

ADEQUACY AS EXISTING. UNSUITABLE IN-SITU MATERIALS SUCH AS MUCK, DEBRIS AND LARGER ROCKS SHALL BE REMOVED.

3) ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED AND BUTT-JOINTED.

THOROUGHLY ROLLED OR TAMPED TO THE SPECIFIED DENSITY. (MINIMUM 98% AASHTO-T-180).

(STEEL PLATES OR OTHERS) MAY BE APPROVED BY THE CONSTRUCTION COORDINATION DIVISION.



SURFACE REPLACEMENT

(SEE NOTE 5)

DITCH WIDTH

1/

\_\_\_ W \_\_

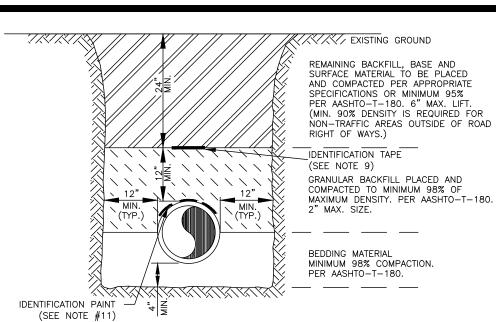
REPLACEMENT OF FLEXIBLE PAVEMENT FOR PERMITTED

PAVEMENT CU

IDENTIFICATION

(SEE NOTE 12)

DIA. VARIES



GREASE TRAP

NON-SKID COVER RATED AT 10,000 LBS.

MUST COMPLY OR EXCEED THE APPLICABLE BUILDING CODES AND REGULATIONS.

7. EACH FACILITY WITH A GREASE TRAP SHALL BE INDIVIDUALLY METERED THROUGH THE DEPARTMENT.

8. EACH FACILITY WHICH IS REQUIRED TO INSTALL A GREASE TRAP SHALL HAVE A SEPARATE (NOT SHARED) GREASE TRAP.

11. THE "GREASE TRAP" OR "OIL/GREASE INTERCEPTOR" SHALL BE LOCATED AS CLOSE PRACTICALLY POSSIBLE TO THE FIXTURES AND EQUIPMENT GENERATING GREASE.

· BOX EXTENSION —

(IF REQUIRED)

4" TWO WAY C.O.

PAVEMENT

FLOW >──

- 1. BEDDING SHALL CONSIST OF IN-SITU GRANULAR MATERIAL OR WASHED AND GRADED LIMEROCK 3/8"-7/8" SIZING. UNSUITABLE IN-SITU MATERIALS SUCH AS MUCK, DEBRIS AND LARGER ROCKS SHALL BE REMOVED.
- 2. THE PIPE SHALL BE FULLY SUPPORTED FOR ITS ENTIRE LENGTH WITH APPROPRIATE COMPACTION UNDER THE PIPE HAUNCHES.
- 3. THE PIPE SHALL BE PLACED IN A DRY TRENCH.
- 4. BACKFILL SHALL BE FREE OF UNSUITABLE MATERIAL SUCH AS LARGE ROCK, MUCK AND DEBRIS. 5. DENSITY TESTS ARE REQUIRED IN 1 FOOT LIFTS ABOVE THE PIPE AT INTERVALS OF 400' MAXIMUM. MINIMUM 1 SET OF TESTS FOR EACH WASTEWATER GRAVITY MAIN RUN, OR AS DIRECTED BY THE
- 6. THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH ALL TRENCH SAFETY LAWS
- 7. SEE SEPARATE DETAILS FOR "PIPE INSTALLATION UNDER EXISTING PAVEMENT OPEN CUT."
- 8. THE AFFECTED AREA SHALL BE RESTORED TO EQUAL OR BETTER CONDITION OR AS SPECIFIED IN 9. APPROVED 6" WIDE MAGNETIC TAPE IS REQUIRED ON ALL FORCE MAINS.\*
- 10. CONTINUOUS FOUR (4) INCH WIDE GREEN PAINT STRIPPING IS REQUIRED FOR FORCE MAIN
- DUCTILE IRON PIPE (D.I.P.) INSTALLED BELOW GRADE ONLY.\* 11. A CONTINUOUS 4" WIDE PAINTED STRIP (GREEN) IS REQUIRED FOR ALL DIP SEWER (FORCE OR
- GRAVITY) MAINS.\*
- 12. WASTEWATER MAIN INSTALLATIONS WITHIN PUBLIC ROAD RIGHT-OF-WAYS SHALL BE BY THE
- SPECIFICATIONS OF THE JURISDICTION GRANTING THE RIGHT-OF-WAY UTILITY PERMIT.\*

13. FOR PIPE INSTALLATIONS IN ROAD RIGHTS-OF-WAY, ROAD OWNER'S PERMIT SPECIFICATIONS SHALL

FORCE MAIN TRENCH DETAIL





IT'S THE LAW! 1-800-432-4770 UTILITIES NOTIFICATION CENTER

DRAWING NO. JOB NO. 23-142 23142S16 WUD M. BUCKNER Palm Beach County Water Utilities Department J. LAMMERT P.O.Box 16097 WUD

### STANDARD DETAILS

DESIGNED BY: DRAWN BY: West Palm Beach, FL 33416-6097

#### POTABLE WATER MAIN — L\_ 20' D.I.P. MIN. \_\_I (AS APPLICABLE)\* MUST CROSS OVER WASTEWATER MAIN 10'-0" (SEE NOTE No.1)\* SEE NOTES -PRESSURE PIPE REQUIRED (SEE NOTES)\* WASTEWATER GRAVITY MAIN. -WASTEWATER VACUUM SEWER MAIN, RECLAIMED WATER MAIN, AND/OR OTHER UTILITIES\*

FLEXIBLE-

TWO PIECE LIE

C.O. PORT-

4" MIN. P.V.C. PIPE WITH BRASS CAP

14. SEPTEODP STANDARD DETAIL 1SB FOR FIBERGLASS TYPE OIL/GREASE INTERCEPTOR INSTALLATIONS.\*

RUBBER SEALING

GASKET REQUIRED (TYP.)(MUST COMPLY

WITH ASTM-C923)

MIN. 4" P.V.C. PIPE -

#6 AROUND OPENING ₽

CONCRETE BAFFLE

66% OF DIM. OF TRAP

TOP VIEW WITH COVER

TOP VIEW WITH COVER REMOVED

-MANHOLE COVER FLUSH WITH

PAVEMENT OR MIN. 2" ABOVE

FLEXIBLE BUTYL SEALANT
OR GROUT BETWEEN TANK
WALL AND TOP SLAB

#4 @ 9" O.C. E.W.

DROP PIPE SECTION "A-A"

ABUVL

1"-3"J

8"

MIN. 2"

MIN. 2"

MIN. 2"

MIN. 2"

MIN. 42"

O.6x-0.7x

DROP PIPE SECTION "A-A"

1. OIL/GREASE INTERCEPTORS SHALL BE WATERTIGHT AND SHALL BE BUILT OF PRECAST CONCRETE WHICH HAS A DESIGN COMPRESSIVE STRENGTH OF MINIMUM 3000 PSI AFTER 28 DAYS CURE. THE DESIGN, SIZING AND CONSTRUCTION MUST CONFORM TO THIS STANDARD AND TO ALL APPLICABLE BUILDING CODES, HEALTH DEPARTMENT REQUIREMENTS AND REGULATIONS, INCLUDING, BUT NOT LIMITED TO CHAPTER 642-6, FLORIDA ADMINISTRATIVE CODE. WALL AND SLAB THICKNESS SHOWN ARE MINIMUMS, AND SHALL BE DETERMINED BY THE OWNER'S ENGINEER. THE CONCRETE BOX SHALL BE MONOLITHIC POURED AND SHALL HAVE A PRECAST HOLE ON EACH END ONLY FOR LATERAL. THE PRECAST HOLES SHALL HAVE ASSISTED AND ALTERNATIVE TYPE OF INTERCEPTOR PRECAST CONCRETE STRUCTURE MAY BE INSTALLED ONLY WITH PRIOR DEPARTMENT APPROVAL. SHOP DRAWINGS ARE REQUIRED TO BE SUBMITTED AND APPROVED BY THE DEPARTMENT PRIOR TO THE PRE-CONSTRUCTION MEETING FOR ALL

INITED. INTO COLOR SHALL BE USED FOR APPLICATIONS EXCEEDING 25 GPM FLOW RATE, DETERMINED USING THE PLUMBING AND DRAINAGE INSTITUTE PDI G101
STANDARD. A DESIGN CALCULATION MUST BE SUBMITED FOR APPROVAL WITH A SHOP DRAWING PRIOR TO THE PRE-CONSTRUCTION MEETING. FOR APPLICATIONS UP TO 25 GPM
FLOW RATE (ONE MINUTE FLOW) OR 50 GPM (TWO MINUTE FLOW), AN APPROVED OUTDOOR "GREASE TRAP" MAY BE USED; OTHER DESIGNS MAY BE CONSIDERED UPON
SUBMITTAL AND APPROVAL OF SHOP DRAWINGS.

3. INSPECTION PORTS (CLEAN OUTS) ARE REQUIRED TO BE INSTALLED AT EACH END OF ANY TYPE OF INTERCEPTOR WITH PORTS TO REMAIN EASILY ACCESSIBLE FOR UTILITY INSPECTION AND SAMPLING.

6. NO BAFFLE IS REQUIRED IF THERE ARE MULTIPLE GREASE INTERCEPTORS INSTALLED IN SERIES. HOWEVER, CLEANOUT PORTS MUST BE INSTALLED ON EACH END OF EACH INTERCEPTOR.

9. EACH FACILITY WITH AN OIL/GREASE INTERCEPTOR SHALL HAVE A SEPARATE (NOT SHARED) INTERCEPTOR AND SHALL BE INDIVIDUALLY METERED THROUGH THE DEPARTMENT.

10. A "GREASE TRAP" OR "OIL/GREASE INTERCEPTOR" SHALL BE REQUIRED TO RECEIVE THE DRAINAGE FROM FIXTURES AND EQUIPMENT (SINKS, DISHWASHERS, FLOOR DRAINS, CAN WASH AREAS, ETC.) WITH GREASE LADEN WASTE LOCATED IN COMMERCIAL FOOD PREPARATION AREAS SUCH AS RESTAURANTS, HOTEL KITCHENS, HOSPITALS, SCHOOL KITCHENS, BARS, FACTORY CAFETERIAS, CLUBS, ETC.

11. THE "GREASE TRAP" OR "OIL/GREASE INTERCEPTOR" SHALL BE LOCATED AS CLOSE AS PRACTICALLY POSSIBLE TO THE FIXTURES AND EQUIPMENT GENERATING GREASE.

12. A "SOLIDS INTERCEPTOR" SHALL BE CONSIDERED TO BE INSTALLED UPSTREAM OF A " GREASE TRAP" WHERE SUBSTANTIAL AMOUNT OF SOLIDS FROM FOOD GRINDERS, DISPOSALS MAY BE PRESENT.

OIL/ GREASE INTERCEPTOR

CONCRETE STRUCTURE

7. THE PROPERTY OWNER/CUSTOMER SHALL BE RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE INTERCEPTOR.

8. THE GREASE INTERCEPTOR SHALL NOT BE USED FOR THE PURPOSE OF INTERCEPTING SAND AND OIL FROM NON- FOOD HANDLING ESTABLISHMENTS

ATHE INTERCEPTOR AND CLEAN—OUTS PORT SHALL BE LOCATED OUTSIDE AND IN NON-TRAFFIC AREA WHENEVER POSSIBLE. IF INSTALLED IN IN A TRAFFIC AREA MINI—MANHOLES
ARE REQUIRED ON THE INSPECTION PORTS (CLEAN OUTS). THE SURFACE SURROUNDING THE INTERCEPTOR SHALL BE SLOPED TO DRAIN STORM WATER AWAY FROM THE
INTERCEPTOR

THE CAPACITY DETERMINATION FOR THE INTERCEPTOR IS THE RESPONSIBILITY OF THE OWNER/CUSTOMER. THE MINIMUM VOLUME OF ANY GREASE INTERCEPTOR SHALL BE 750 GALLONS AND THE MAXIMUM VOLUME OF A SINGLE GREASE INTERCEPTOR SHALL BE 1250 GALLONS. WHEN THE REQUIRED EFFECTIVE CAPACITY OF THE GREASE INTERCEPTOR IS GREATER THAN 1250 GALLONS, INSTALLATION OF MULTIFLE GREASE INTERCEPTORS IS SERIES IS REQUIRED.

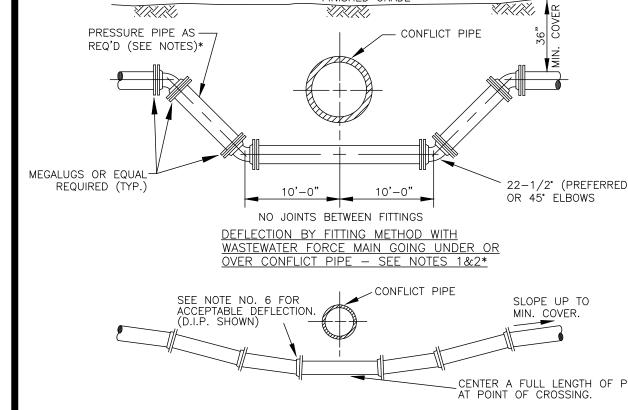
P.V.C. TEE-

FRAME W/LID (TYP.)

8"ø HOLE —

- WHEN A WASTEWATER FORCE MAIN CROSSES OVER AND/OR UNDER A STORM SEWER. GRAVITY WASTEWATER. VACUUM GRAVITY WASTEWATER, AND/OR RECLAIMED WATER MAIN THE WASTEWATER FORCE MAIN SHALL BE LAID TO PROVIDE A MINIMUM TWELVE (12) INCH VERTICAL SEPARATION BETWEEN THE BOTTOM OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE. WHEN THE MINIMUM TWELVE (12) INCH VERTICAL SEPARATION CANNOT BE OBTAINED A MINIMUM SIX (6) INCH VERTICAL SEPARATION IS PERMITTED PROVIDED THAT A TWENTY (20) FOOT SECTION OF WASTEWATER DUCTILE IRON PIPE MAIN IS CENTERED ON THE CROSSING WITH THE OTHER PIPE HAVING A TWENTY (20) FOOT SECTION CENTERED ON THE CROSSING AND WITH PRIOR DEPARTMENT. APPROVAL. A WASTEWATER FORCE MAIN MUST CROSS UNDER ANY POTABLE WATER MAIN WITH A MINIMUM TWELVE (12) INCH VERTICAL SEPARATION REQUIRED. WHEN THE MINIMUM TWELVE (12) INCH VERTICAL SEPARATION CANNOT BE OBTAINED A MINIMUM SIX (6) INCH VERTICAL SEPARATION IS PERMITTED PROVIDED THAT A TWENTY (20) FOOT SECTION OF POTABLE WATER DUCTILE IRON PIPE MAIN IS CENTERED ON THE CROSSING WITH THE WASTEWATER FORCE MAIN HAVING A TWENTY (20) FOOT SECTION CENTERED ON THE CROSSING AND ONLY WITH PRIOR DEPARTMENT APPROVAL. A WASTÈWATER FORCE MAIN MAY CROSS OVER A POTABLE WATER MAIN ON A CASE BY CASE BASIS PROVIDED A MINIMUM TWELVE (12) INCH VERTICAL SEPARATION IS OBTAINED BETWEEN THE BOTTOM OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE AND ONLY WITH PRIOR DEPARTMENT APPROVAL.\*
- TEN (10) FOOT MINIMUM HORIZONTAL SEPARATION (OUTSIDE WALL TO OUTSIDE WALL) IS REQUIRED BETWEEN A WASTEWATER MAIN AND POTABLE WATER MAIN, A STORM SEWER, AND/OR RECLAIMED WATER MAIN. A SIX (6) FOOT MINIMUM HORIZONTAL SEPARATION (OUTSIDE WALL TO OUTSIDE WALL) IS ACCEPTABLE WITH PRIOR DEPARTMENT APPROVAL BEFORE THE INSTALLATION OF THE WASTEWATER MAIN. A THREE (3) FOOT MINIMUM HORIZONTAL SEPARATION (OUTSIDE WALL TO OUTSIDE WALL) BETWEEN A WASTEWATER MAIN AND A RECLAIMED WATER MAIN IS ACCEPTABLE WITH PRIOR DEPARTMENT APPROVAL BEFORE THE INSTALLATION OF THE
- WHEN A WASTEWATER MAIN CROSSES ANY ELECTRICAL CONDUIT(S), COMMUNICATION CONDUIT(S), AND/OR GAS MAIN, A MINIMUM OF EIGHTEEN (18) INCH VERTICAL SEPARATION IS REQUIRED BETWEEN THE BOTTOM OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE. A WASTEWATER PIPE SHALL ALWAYS CROSS OVER THE OTHER UTILITY MAINS UNLESS APPROVED BY THE DEPARTMENT BEFORE TH NSTALLATION OF THE WASTEWATER MAIN. WHEN THE WASTEWATER MAIN IS D.I.P. AND THE GAS MAIN IS STEEL PIPE, THE WASTEWATER MAIN SHALL BE POLY-WRAPPED PER DEPARTMENT STANDARDS.
- WASTEWATER LATERALS SHALL CROSS UNDER POTABLE WATER MAINS WITH A MINIMUM TWELVE (12) INCH VERTICAL SEPARATION BETWEEN THE BOTTOM OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE. WHEN THE MINIMUM TWELVE (12) INCH VERTICAL SEPARATION CANNOT BE OBTAINED A MINIMUM SIX (6) INCH VERTICAL SEPARATION IS PERMITTED PROVIDED THAT A TWENTY (20) FOOT SECTION OF POTABLE WATER DUCTILE IRON PIPE MAIN IS CENTERED OVER THE WASTEWATER LATERAL AND THE LATERAL IS PVC C-900 PIPE. WHEN A WASTEWATER LATERAL MUST CROSS OVER A POTABLE WATER MAIN A MINIMUM TWELVE (12) INCH VERTICAL SEPARATION IS REQUIRED WITH THE LATERAL MAIN BEING PVC C-900 PIPE AND THE POTABLE WATER MAIN HAVING A TWENTY (20) FOOT SECTION OF POTABLE WATER DUCTILE IRON PIPE MAIN CENTERED
- WASTEWATER MAINS SHALL ALWAYS CROSS UNDER POTABLE WATER SERVICE LINES WITH A MINIMUM TWELVE (12) INCH VERTICAL SEPARATION BETWEEN THE BOTTOM OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE. IF THE MINIMUM TWELVE (12) INCH VERTICAL SEPARATION CANNOT BE MAINTAINED THE WATER SERVICE LINE SHALL BE ENCASED IN A TEN (10) FOOT MINIMUM LONG CASING CENTERED OVER THE
- CROSSING WITH SIX (6) INCH MINIMUM VERTICAL SEPARATION.\* WASTEWATER MAINS SHALL CROSS PERPENDICULAR TO ALL POTABLE WATER MAINS, STORM MAINS, STORM SEWER MAINS, RECLAIMED WATER MAINS, AND/OR OTHER UTILITIES WHENEVER POSSIBLE.\*

WASTEWATER MAIN CROSSING OTHER MAINS



## CENTER A FULL LENGTH OF PIPE DEFLECTION BY PIPE JOINT METHOD WITH

WASTEWATER FORCE MAIN GOING UNDER OR OVER CONFLICT PIPE — SEE NOTES 1,3,&4\*

- 1. DEFLECTION BY FITTINGS AND/OR PIPE JOINT METHODS APPLIES TO WASTEWATER FORCE MAIN CROSSING OVER OR UNDER CONFLICT PIPE WITH CROSSING OVER CONFLICT PIPE PREFERRED. WHEN A WASTEWATER FORCE MAIN CROSSES OVER A STORM SEWER, GRAVITY WASTEWATER, VACUUM GRAVITY AND/OR RECLAIMED WATER MAIN THE WASTEWATER FORCE MAIN SHALL BE LAID TO PROVIDE A MINIMUM TWELVÉ (12) INCH VERTICAL SEPARATION BETWEEN THE BOTTOM OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE. WHEN THE MINIMUM OF TWELVE (12) INCH VERTICAL SEPARATION CANNOT BE OBTAINED A MINIMUM SIX (6 INCH VERTICAL SEPARATION IS PERMITTED PROVIDED THAT A TWENTY (20) FOOT SECTION OF WASTEWATER DUCTILE IRON PIPE FORCE MAIN IS CENTERED ON THE CROSSING WITH THE LOWER PIPE HAVING A TWENTY (20) FOOT SECTION CENTERED ON THE CROSSING. A WASTEWATER FORCE MAIN MUST CROSS UNDER ANY POTABLE WATER MAIN WITH A MINIMUM TWELVE (12) INCH VERTICAL SEPARATION REQUIRED. WHEN THE MINIMUM TWELVE (12) INCH VERTICAL SEPARATION CANNOT BE OBTAINED A MINIMUM SIX (6) INCH VERTICAL SEPARATION IS PERMITTED PROVIDED THAT A TWENTY (20) FOOT DUCTILE IRON PIPE SECTION OF POTABLE WATER MAIN IS CENTERED ON THE CROSSING WITH THE WASTEWATER FORCE MAIN HAVING A TWENTY (20 FOOT DUCTILE IRON PIPE SECTION CENTERED ON THE CROSSING. A WASTEWATER FORCE MAIN MAY CROSS OVER A POTABLE WATER MAIN ON A CASE BY CASE BASIS PROVIDED A MINIMUM OF TWELVE (12) INCH VERTICAL SEPARATION IS OBTAINED BETWEEN THE BOTTOM OF THE UPPER PIPE AND THE CROWN OF THE
- 2. THE PREFERRED PIPE DEFLECTION METHOD IS BY USING MECHANICAL RESTRAINT FITTINGS.\*

LOWER PIPE AND ONLY WITH PRIOR DEPARTMENT APPROVAL.\*

WASTEWATER FORCE MAIN DEFLECTION BY PIPE JOINT METHOD REQUIRES DEPARTMENT APPROVAL PRIOR TO THE INSTALLATION OF THE FORCE MAIN.\*

WASTEWATER MAIN CONFLICT

DEFLECTION BY PIPE JOINT SHALL NOT EXCEED SEVENTY-FIVE PERCENT (75%) OF MANUFACTURER'S

#### RECOMMENDED MAXIMUM JOINT DEFLECTION FOR DUCTILE IRON PIPE AND PVC PIPE DEFLECTION CAN ONLY BE ALLOWED BY INSTALLING THE APPROPRIATE FITTINGS — NO EXCEPTIONS.\* PER WUD STANDARDS.

5S

#### 13) CONTINUOUS 4" WIDE PAINT STRIPING IS REQUIRED FOR DIP/PCCP WATER MAINS (BLUE), DIP SANITARY FORCE MAINS (GREEN), DIP RECLAIMED WATER MAINS (PURPLE), GAS MAINS (YELLOW), OR AS REQUIRED BY THE APWA . WUD ONLY UTILITY NOTE: THE CONTINUOUS PAINTED STRIPE REFERENCED IN NOTE #13 ABOVE SHALL BE EUCLID GREEN IN COLOR

12) APPROVED MAGNETIC TAPE IS REQUIRED FOR ALL MAIN PRESSURE PIPES AND CONDUIT IN THE COUNTY'S RIGHT-OF-WAY.

OPEN CUT PIPE INSTALLATION 6S

OPEN CUT PIPE INSTALLATION THOROUGHFARE ROAD

NON-THOROUGHFARE ROAD

DEFLECTION DETAIL Y:\AUTOCAD FILES\2023\23-142\CONSTRUCTION\23142S10-21 WSD.dwg 10/17/2024 1:21 AM Eric Luipersbeck

AND UTILITIES 4S



**TOWN OF GLEN RIDGE** APPROVED BY JOSE RODRIGUEZ PX-3697

REVIEWED FOR CODE COMPLIANCE

CHECKED BY: 7S APPROVED BY:

Oct 17, 2024

