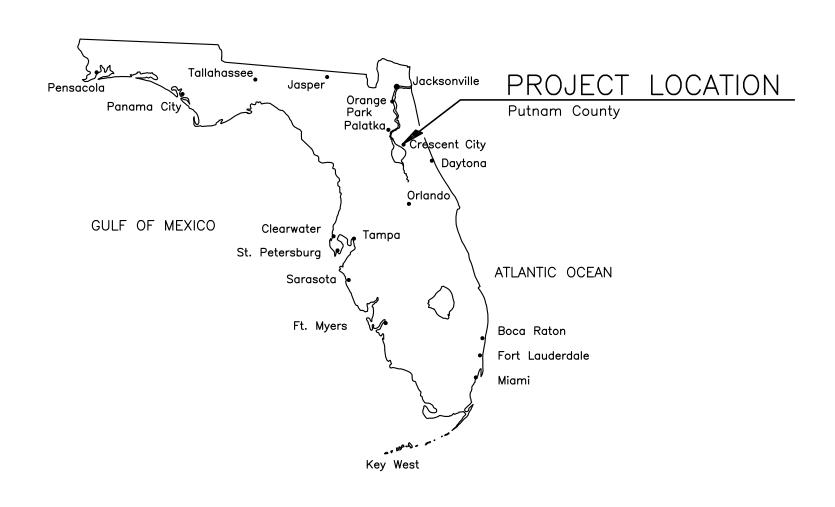
MAIN ST. WATER MAIN REPLACEMENT - PHASE 2

FOR

CITY OF CRESCENT CITY, FLORIDA

M & A Project No. 9318-65-1







MICHELE MYERS

MAYOR

H. HARRY BANKS
VICE MAYOR

LISA KANE DeVITTO

COMMISSIONER

CHRISTOPHER BAILEY
COMMISSIONER

CYNTHIA BURTON
COMMISSIONER

CHARLES RUDD
CITY MANAGER

ROBERT PICKENS
CITY ATTORNEY

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11 MAINTENANCE OF TRAFFIC

ASSOCIATES, INC. CONSULTING ENGINEERS 580-1 Wells Road, Orange Park, Florida 32073 Tel. (904) 278-0030 Fax. (904) 278-0840 Florida License RY-6569

REVIEW SET

11/03/23

- Existing underground utilities have been shown from the best available information. The Contractor shall notify the proper Utility Representative prior to commencing excavation near the utility. The Contractor is responsible for locating all utilities in the path of construction. Contractor shall field determine the location, size, and depth of all existing piping. The Contractor shall call the Sunshine State One center (1-800-432-4770).
- It shall be the sole responsibility of the Contractor to locate and avoid all utilities, structures, and obstructions both above and below the ground surface. All damages resulting from the Contractor's failure to comply with this requirement shall be repaired at the Contractor's expense.
- Contractor is responsible for supporting/protecting & maintaining all existing improvements (i.e., utilities, utility poles, structures, pavement, sidewalks, monitoring wells, foundations, etc.) which may be damaged/undermined or interrupted as a result of his operations. The Contractor shall immediately notify the Engineer of any such occurrences. The Contractor may be required to shore, sheet, brace, or support work to protect existing improvements. The Contractor shall maintain a minimum of 5 feet of undisturbed soil around all power poles. Where edge of utility trench would be closer than 5 feet from poles, Contractor shall be required to sheet around pole to maintain 5 feet of undisturbed soil. Where 5 feet of undisturbed soil cannot be maintained, Contractor shall make arrangements with power company to have poles held/braced. All costs associated with supporting/protecting existing improvements shall be borne by the Contractor.
- All existing facilities (e.g., pipes, roadways, sidewalks, landscaping, structure, etc.) not indicated to be disturbed/restored which are disturbed/damaged as a result of the Contractor's operations shall be restored to a condition equal to or better than that which existed prior to construction, at Contractor's expense
- Horizontal and vertical controls are subject to adjustments in the field if necessary to avoid utility conflicts upon approval of the Engineer or his representative. Contractor shall not adjust location of pipe or other facilities (either vertically or horizontally) without approval of the Engineer or his representative.
- Contractor shall provide constant slope between indicated pipe invert elevations, unless otherwise directed by Engineer.
- Contractor shall not remove any trees of 4—inch diameter or larger without Engineer's approval. Adjustment of pipe location to avoid trees shall be subject to approval of the Engineer. The Engineer makes no claim that any tree will survive construction of the proposed project.
- The Contractor shall at all times conduct his operations so as to interfere as little as possible with the existing facilities. The Contractor shall develop a program in cooperation with the Owner's operating staff which shall provide for the construction of an putting into service the proposed work in the most orderly manner possible. All work of connection with, cutting into and reconstruction of existing facilities shall be planned so as not to interfere with the existing facility.
- Contractor shall apply for and obtain FDEP Generic Permit for Large and Small Construction Activities (CGP). The Contractor shall act as the Operator of all temporary construction phase pollution prevention improvements and be responsible for their design, selection, and implementation. Schematic erosion control measures are provided in these documents and shall be the basis of the Contractor's design.
- 10. During any construction activity, including stabilization and revegetation of disturbed surfaces, the Contractor is responsible for the design, selection, permitting, implementation, and operation of all temporary construction phase erosion and sediment control measures required to retain on-site sediment and prevent violations of the State of Florida water quality standards. The Contractor shall use appropriate best management practices described in the State of Florida Erosion and Sediment Control Designer and Reviewer Manual, July 2013, with revisions. All turbidity/silt barriers must be in place downgradient from the construction zone prior to the start of any construction activity in general accordance with the plans and details provided in these documents. The barriers shall remain in place until all the disturbed areas have been properly stabilized.
- 11. Unsuitable materials exposed during construction under utility pipes or structures shall be removed and replaced with selected backfill, properly compacted, in accordance with specifications.
- 12. Where existing culverts must be removed to construct the project, the Contractor shall reinstall the culverts as soon as practical. If the culverts are not suitable for reuse, the Contractor shall, at his expense, extend/replace the culverts as required with similar materials to accommodate the work while maintaining existing invert elevations for all extended/replaced culverts. Provide all required excavation and fill necessary to extend/replace the culvert. The Contractor shall ensure, at his expense, temporary measures are provided to maintain existing drainage patterns.
- 13. The Contractor shall temporally relocate the postal mail boxes and clusters as required for the construction of the project and reinstall them in their original locations upon completion of the construction. All work associated with the mail boxes or clusters shall be in accordance with the requirements of the U.S. Post
- 14. Only that excavation that can be backfilled by the end of the work day will be excavated. No open trench will be allowed to remain after work ends for the day, unless approved by Engineer or governing authority.
- 15. All areas disturbed by construction shall be regraded and sodded.
- 16. Until final acceptance of the work by the Owner, it shall be under the charge and custody of the Contractor and he shall take every precaution against injury or damage to the work by the action of the elements or from any other cause whatsoever, arising either from the execution or from the non-execution of the work. The Contractor shall rebuild, repair, restore and make good without any additional compensation, all injury or damage to any portion of the work occasioned by any of the above causes before its completion and acceptance.
- 17. The Contractor shall employ the services of a Florida licensed surveyor who shall be responsible for laying out the work and for establishing the following: project temporary benchmarks; elevation lines and grades; and right—of—way and easement limits for construction. Contractor shall also employ the services of a Florida licensed surveyor to obtain the required record drawing information
- 18. The Contractor shall employ a land surveyor, registered in the State of Florida, to reference property and restore property corners and land markers which may be disturbed as a result of Contractor's operations.
- 19. Project Benchmark: Project Benchmark: All elevations on these plans are relative to the North American Vertical Datum of 1988 (NAVD 88) based on National Geodetic Survey Benchmark PID Al6986 having an elevation of 2.99 feet. See Sheet No. 3 for location and description of Benchmark.
- 20. Topographic information based on a survey by Mittauer & Associates, Inc., performed on 09/12/22, job no.
- Horizontal control for features on the plans are relative to the NAD83 Florida State Planes, East Zone, US Foot coordinate system.

- GENERAL WATER SYSTEM NOTES
- 1. All water line work shall be in accordance with FAC 62-555, Permitting and Construction of Public Water Systems. All materials that come in contact with drinking water shall be in conformance with ANSI/NSF International Standard 61 and shall be installed in accordance with applicable AWWA Standards and/or the manufacturer's recommendations.
- 2. The Contractor shall coordinate the construction of the water facilities with all other construction. The Contractor shall verify the location and elevation of the proposed water main connection(s) prior to commencing work. It shall be the Contractor's responsibility to notify the Owner and the Engineer of any discrepancies.
- 3. Water lines are designed to finished grade and shall be protected until finished work is complete.
- 4. All workmanship and materials associated with water mains shall conform to the latest standards and specifications of the local utility company.
- 5. Refer to specifications and FDEP rules for separation requirements between potable water mains and other utilities.
- All existing water main valves which are made inactive as the result of this project shall have their valve boxes removed and the disturbed roadway or grassed area restored. Valve boxes which are in paved areas shall have the cover removed and the section shall be filled with asphalt or flowable fill with the surface painted to match the surrounding pavement.
- 7. The location of water services on the plans are approximate. Actual location of services shall be determined in the field by location of existing water lines and as directed by the Engineer and the
- No connection to the existing potable water system shall be allowed until all proposed water lines have been pressure tested, disinfected and cleared for service. Pressure testing shall be in accordance with AWWA C600 for DI mains or AWWA C605 for PVC mains. All water lines shall be disinfected in accordance with AWWA C651 and DEP requirements. As a minimum, successful bacteriological test shall be performed on two consecutive days at the point of tie—in, at junctions, along the water line route at 1,200' spacing, and at the terminal end of the line extension.
- 9. Existing Water Meters shall be disconnected from the existing water system and reconnected to the newly installed serviced lines after the new water system is cleared for service. The Contractor is responsible for locating and connecting all existing water services to the new main.

C. PAVEMENT STRIPING AND SIGNAGE NOTES

- Unless otherwise noted on the drawings, all existing signs removed by the construction activity, shall be restored to their original position prior to completion of the project. Any signs damaged during construction shall be replaced at the Contractor's expense.
- 2. All signs and pavement markings shall conform to the Manual on Uniform Traffic Control Devices (MUTCD) and the Florida Department of Transportation Roadway and Traffic Design Standards, latest editions.
- 3. Sign assembly locations, shown on the plans, which are in conflict with lighting, utilities etc. may be adjusted slightly as directed by the Engineer.
- 4. Existing signs to be permanently removed shall become the property of the Contractor and disposed of at his expense unless claimed by Owner or governing authority.
- 5. All pavement striping within Right-of-Way or easements, as well as all stop bars, crosswalks, messages and directional arrows (regardless of location) shall be lead free, thermoplastic pavement markings (FDOT
- 6. The aluminum column (post) & connection design shall adhere to FDOT Index 700-010 and the following

spec. section 711). All other striping shall be reflective paint (FDOT spec. section 710) unless noted

- a. mounting height = 8' maximum b. sign(s) area = 25 sq. ft. maximum
- c. sign(s) width: single = 36" maximum

otherwise on the drawings or in the project specifications.

- dual = 48" maximum
- 7. All posts shall be installed plumb.

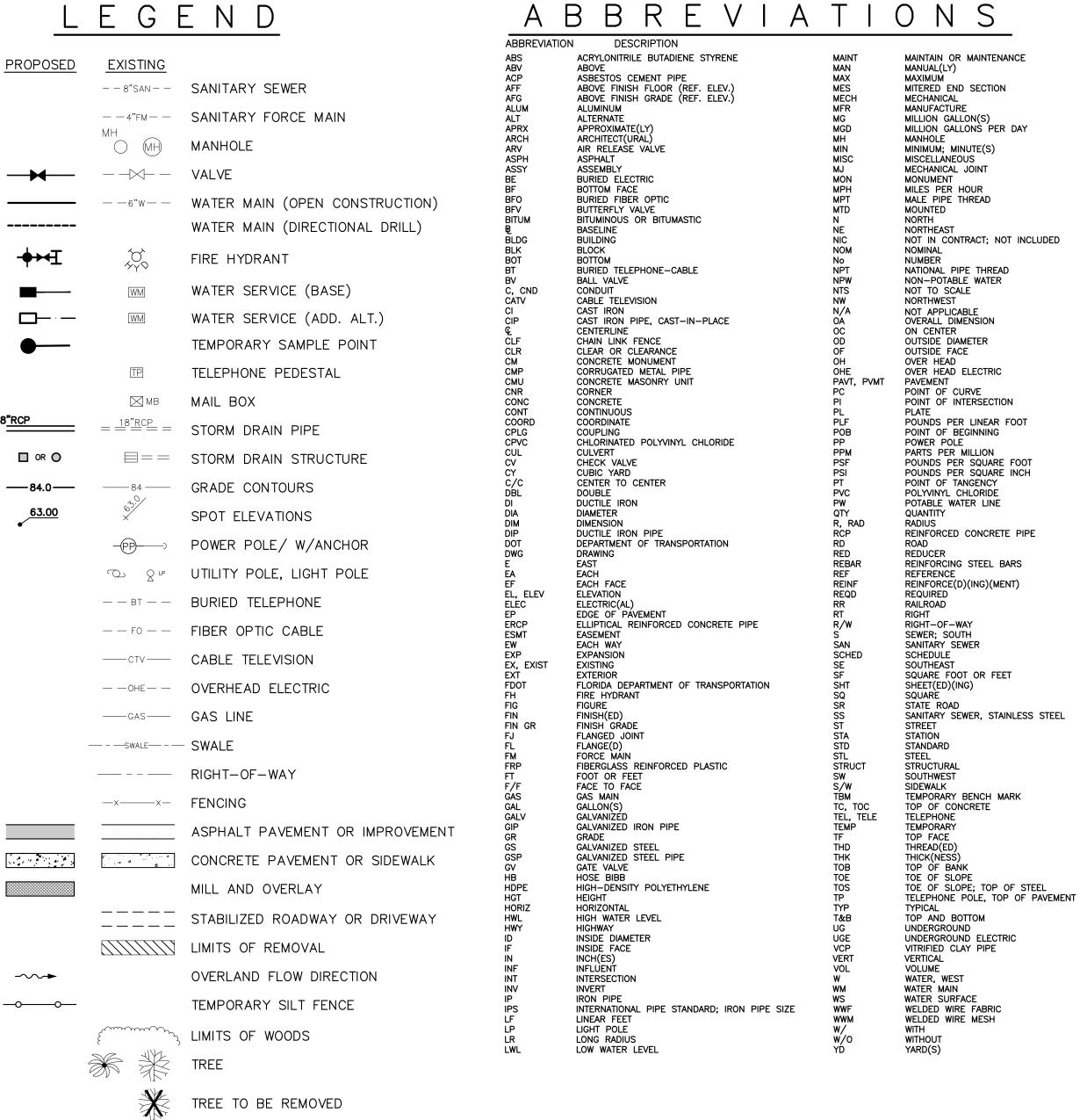
d. driven post only

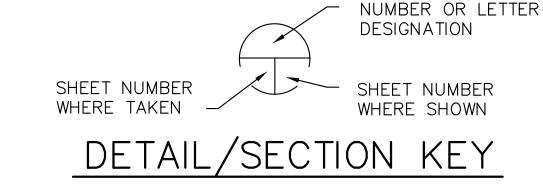
- 8. All hardware shall be stainless steel (ASTM F593, ASTM F594, Alloy Group 2, Condition A, CW2 or SH4).
- 9. All signs furnished under this contract shall be permanently affixed with the date they were fabricated.

D. MAINTENANCE OF TRAFFIC NOTES

- 1. Contractor shall provide all Maintenance of Traffic (MOT) plans and/or schematics as required per the MUTCD, FDOT, and/or local jurisdiction to obtain R/W permit(s). Standard Index Drawings are provided for reference purposes only. Final MOT plans are the Contractor's responsibility per their construction approval and shall be implemented at their expense.
- 2. Contractor shall maintain vehicular access to all residences at the end of each workday. No roadway/driveway shall be blocked to vehicular traffic for more than a two (2) hour period.
- 3. Contractor shall maintain single lane access, at a minimum, at all times. Contractor shall provide detours and/or temporary roadway as necessary. Contractor shall provide all necessary flagging.
- 4. Contractor shall confine his active work area to no more than 100 feet at a time.
- 5. The roadway shall be restored to at least a limerock surface before it is reopened to traffic, and before the Contractor moves on to the next construction zone.
- 6. Dust control measures shall be implemented on all unpaved surfaces until paved.

LEGEND





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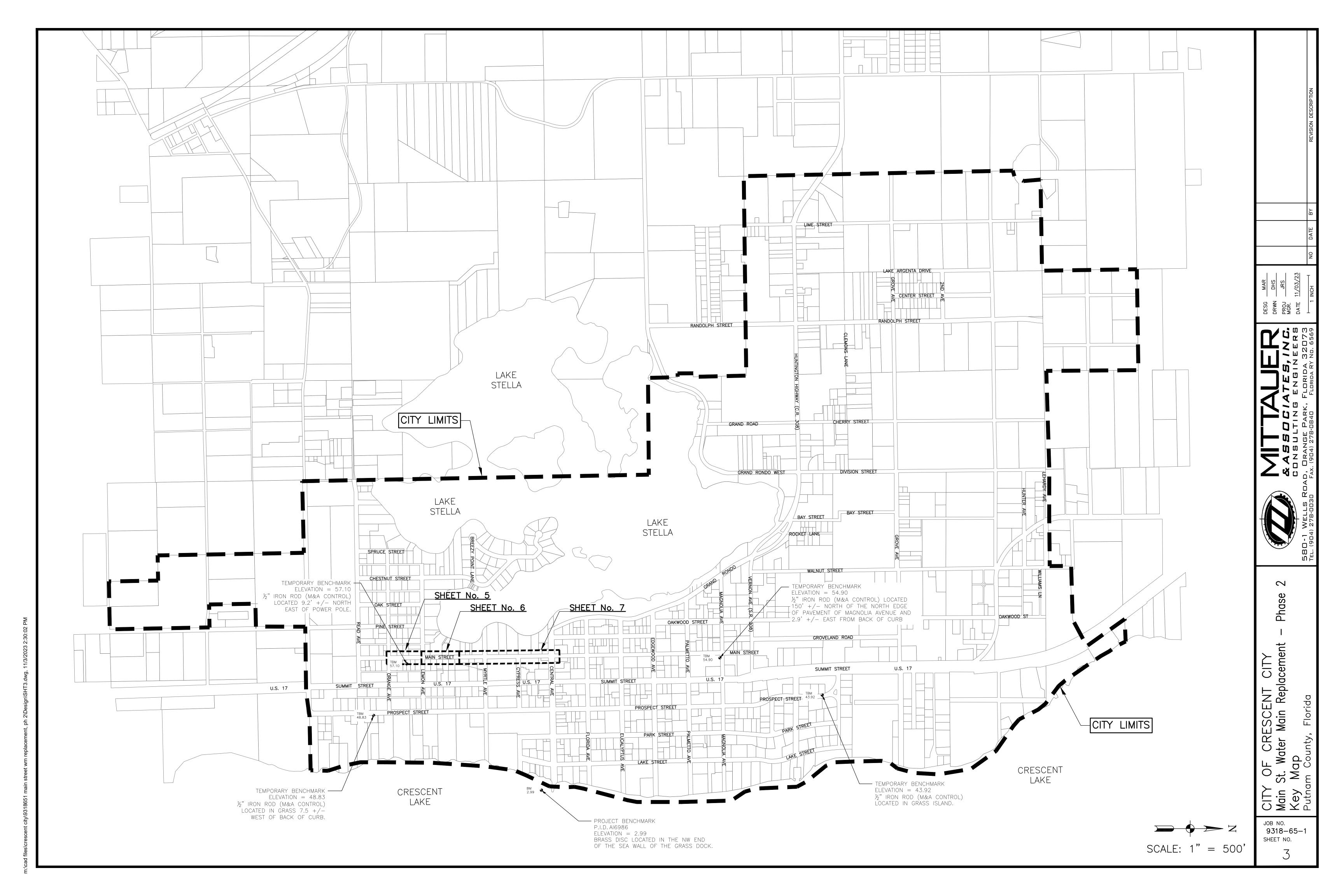
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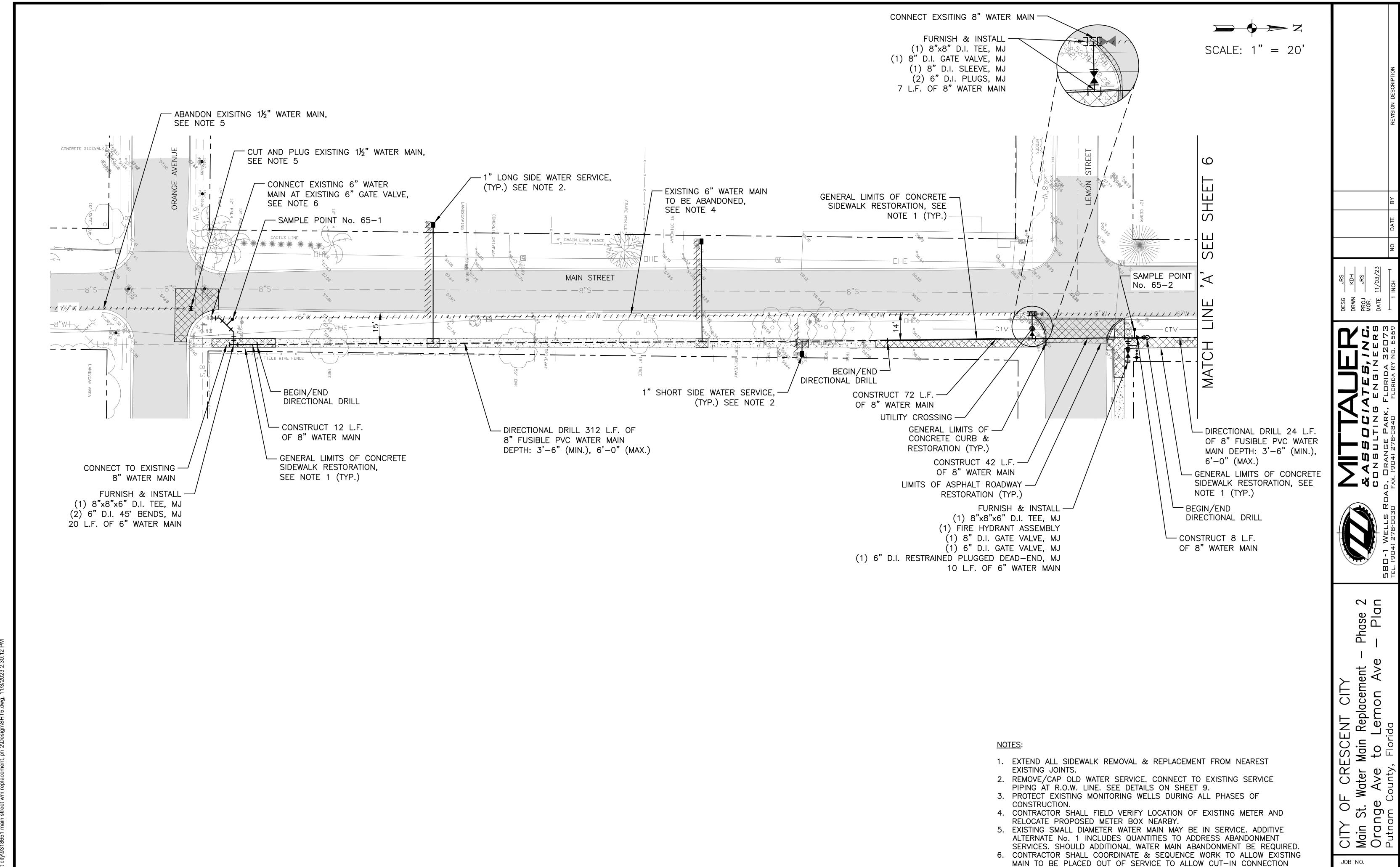
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PROJECT CONTACTS

TYPE	ORGANIZATION	ADDRESS	TELEPHONE	CONTACT PERSON
LINE LOCATIONS	SUNSHINE STATE ONE—CALL OF FLORIDA, INC.	7797 N. UNIVERSITY DR., SUITE 204 FT. LAUDERDALE, FL. 33321	(800) 432-4770	CALL 48 HRS BEFORE DIGGING
TELEPHONE	WINDSTREAM FLORIDA, INC.	206 WHITE AVENUE S.E. ALACHUA, FL 32064	(386) 462-6530	GARY CARY
ELECTRIC	FPL	2900 CATHERINE ST. PALATKA, FL 32177	(800) 868-9554	TRACY STERN
INTERNET/TELEPHONE	WINDSTREAM FLORIDA, INC.	206 WHITE AVE. S.E. ALACHUA, FL 32064	(386) 462-6530	GARY CARY
CABLE T.V.	COMCAST	5934 RICHARD ST JACKSONVILLE, FL 32216	(904) 380-7574	LARRY WINBURN
GAS	CITY OF CRESCENT CITY	3 NORTH SUMMIT STREET CRESCENT CITY, FL 32112	(386) 698-2525 EXT. 223	JOHN TURNEY OPERATIONS/DISTRIBUTION
WATER & SEWER	CITY OF CRESCENT CITY	3 NORTH SUMMIT STREET CRESCENT CITY, FL 32112	(386) 698-2525	KEITH HARRIS PUBLIC WORKS DIRECTOR
OWNER	CITY OF CRESCENT CITY	3 NORTH SUMMIT STREET CRESCENT CITY, FL 32112	(386) 698-2525	CHARLES RUDD CITY MANAGER
DESIGN ENGINEER	MITTAUER & ASSOCIATES, INC.	580-1 WELLS ROAD ORANGE PARK, FL 32073	(904) 278-0030	JASON R. SHEPLER, P.E





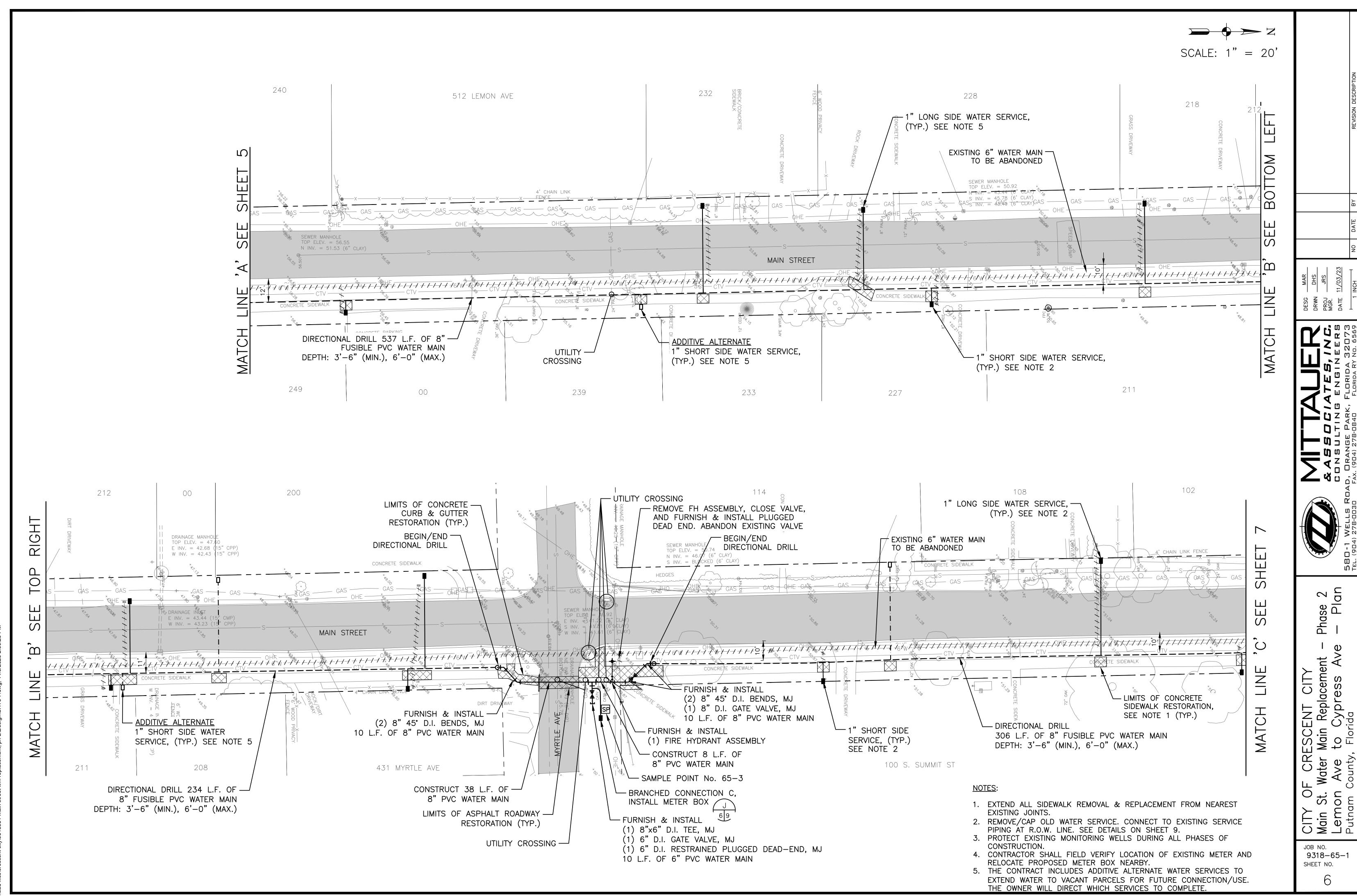
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Water Main Replacement
P Ave to Lemon Ave
County, Florida CITY OF Main St. Orange Putnam C

JOB NO. 9318-65-1 SHEET NO.

TO EXISTING WATER MAIN.

7. COSTUMERS SHALL BE RESERVICED TO CLEARED REPLACEMENT WATER

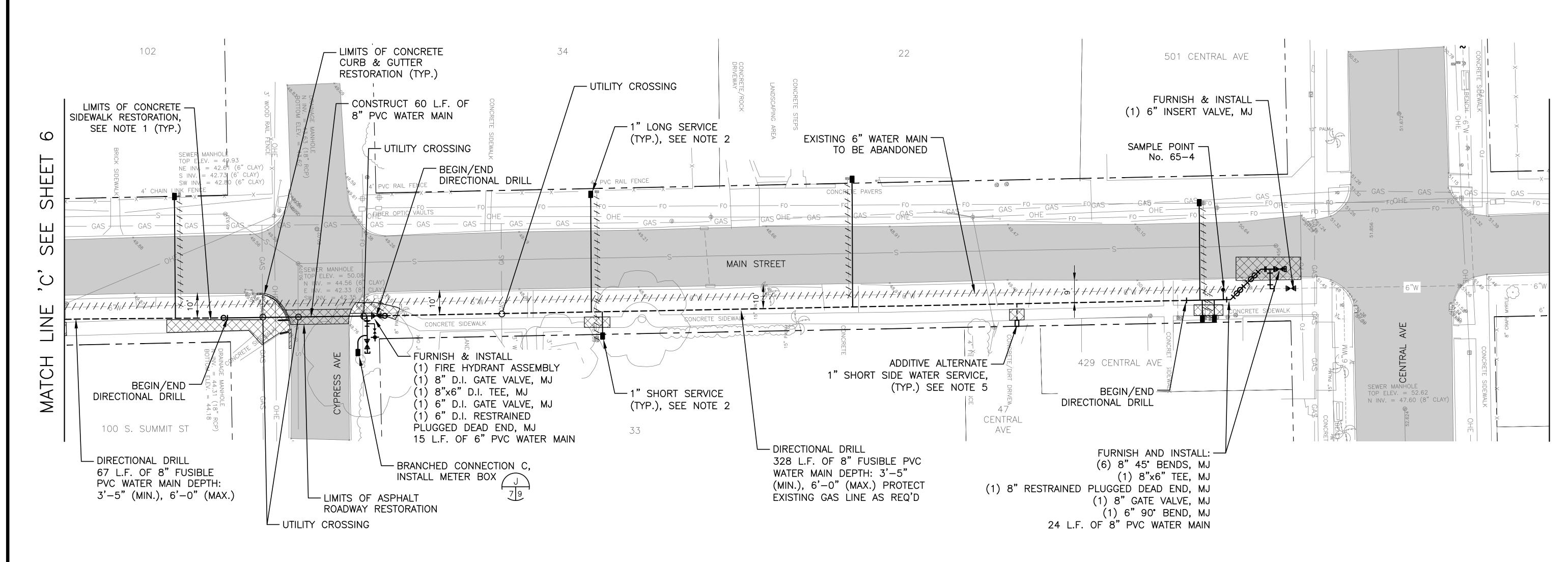
MAIN PRIOR TO MAIN LINE CONNECTIONS TO EXISTING WATER MAINS.



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NOTES:

- 1. EXTEND ALL SIDEWALK REMOVAL & REPLACEMENT FROM NEAREST EXISTING JOINTS.
- 2. REMOVE/CAP OLD WATER SERVICE. CONNECT TO EXISTING SERVICE PIPING AT R.O.W. LINE. SEE DETAILS ON SHEET 9.
- 3. PROTECT EXISTING MONITORING WELLS DURING ALL PHASES OF CONSTRUCTION.
- 4. CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING METER AND RELOCATE PROPOSED METER BOX NEARBY.
- 5. THE CONTRACT INCLUDES ADDITIVE ALTERNATE WATER SERVICES TO EXTEND WATER TO VACANT PARCELS FOR FUTURE CONNECTION/USE. THE OWNER WILL DIRECT WHICH SERVICES TO COMPLETE.

Phase 2 — Plar Y OF CRESCENT CITY

St. Water Main Replacement —

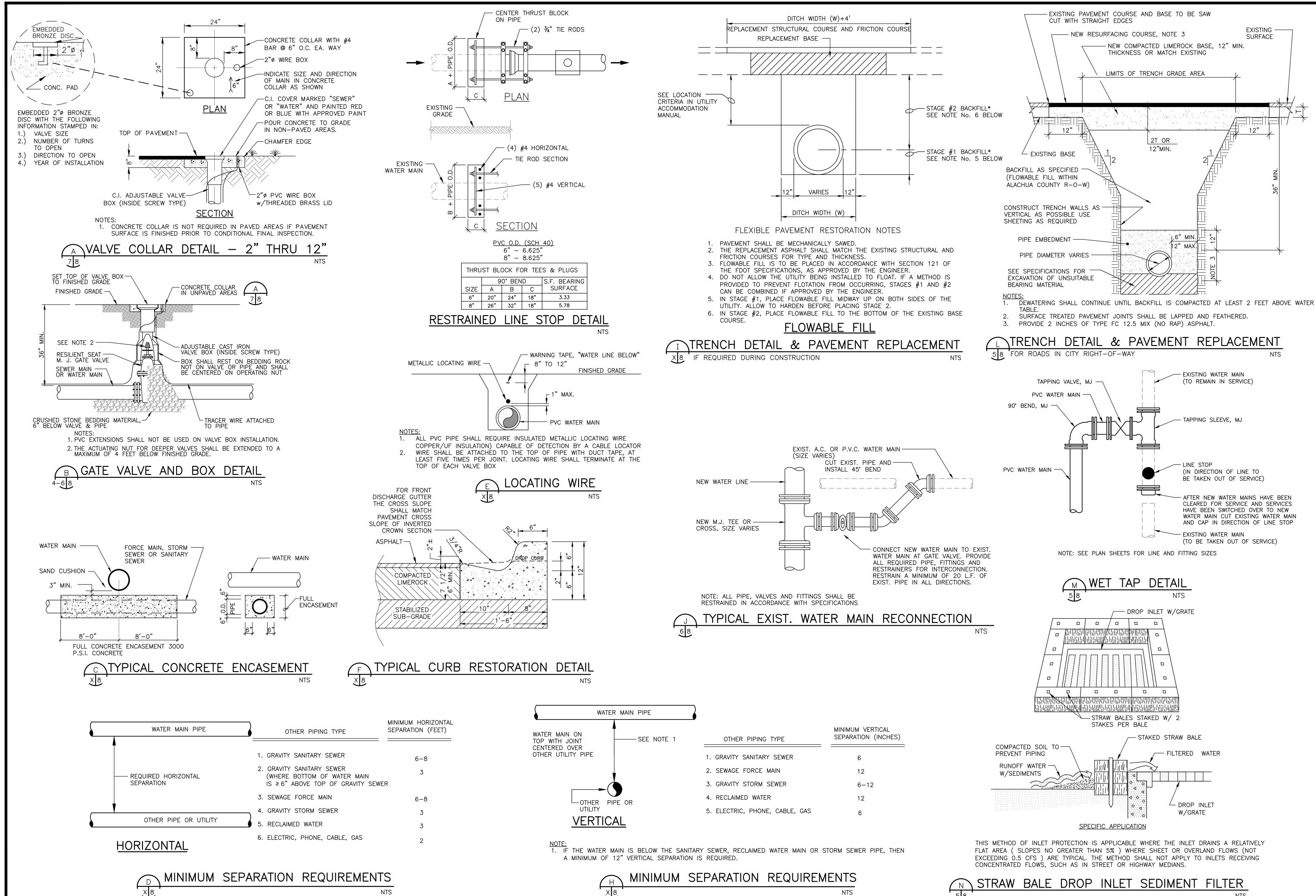
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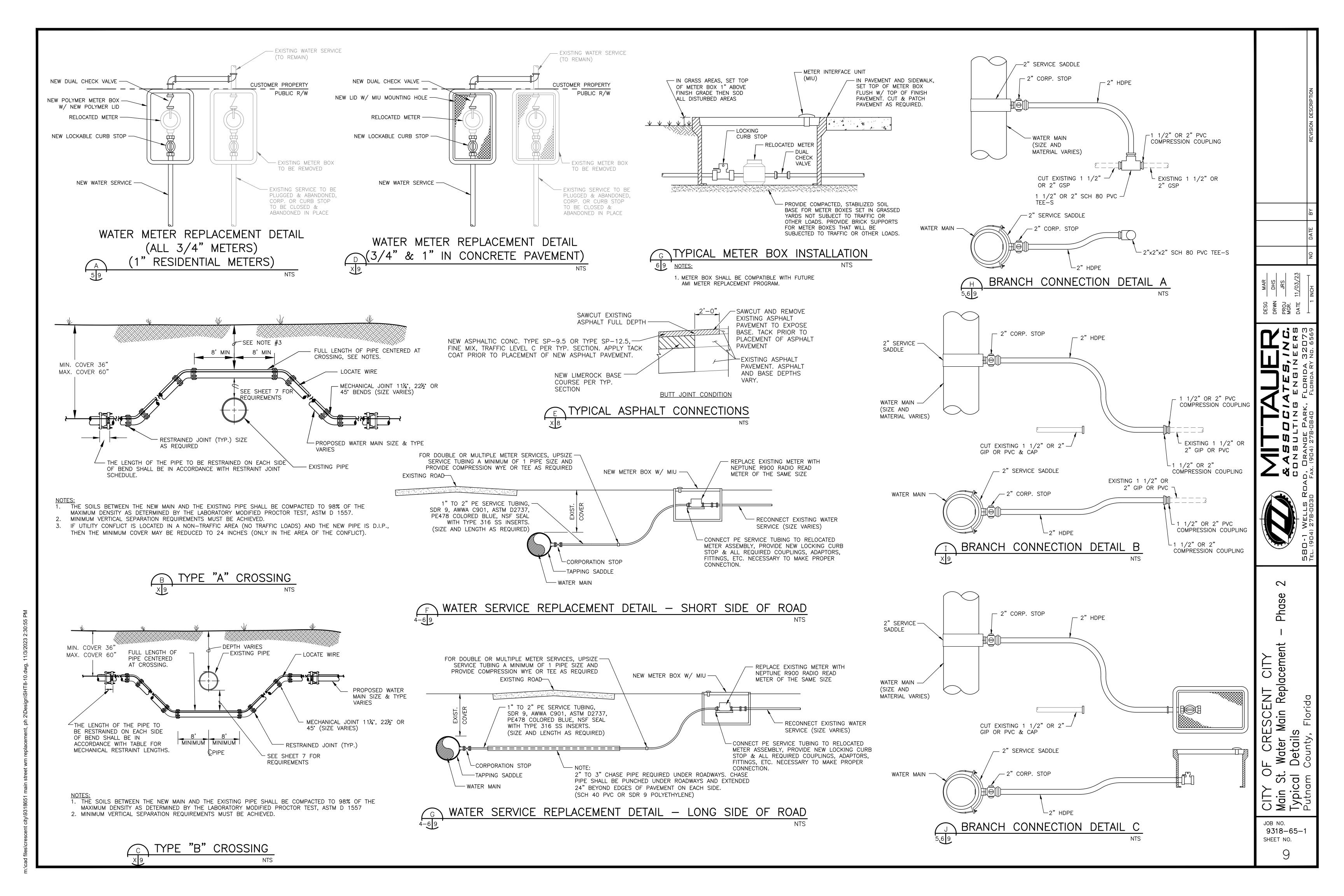
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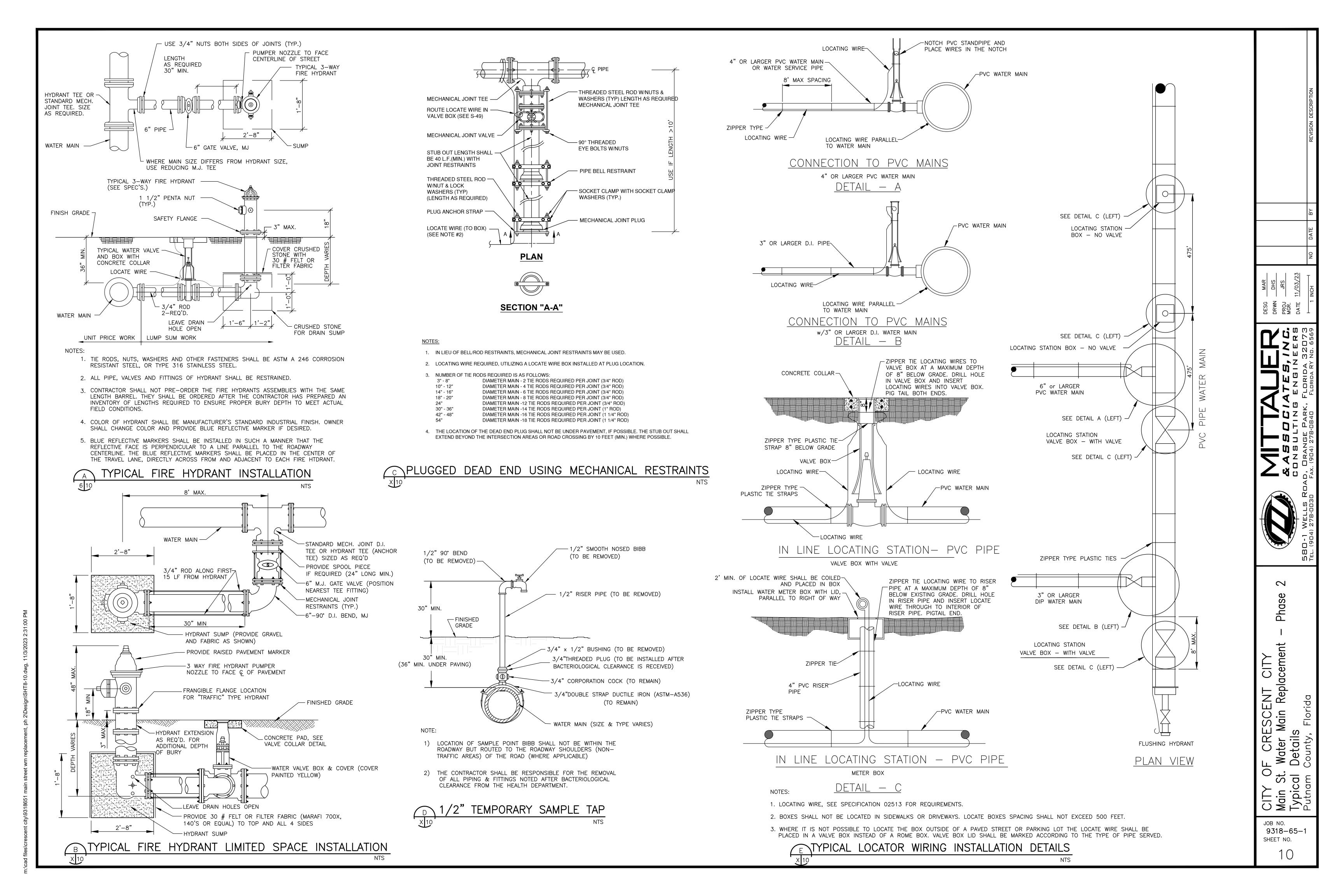
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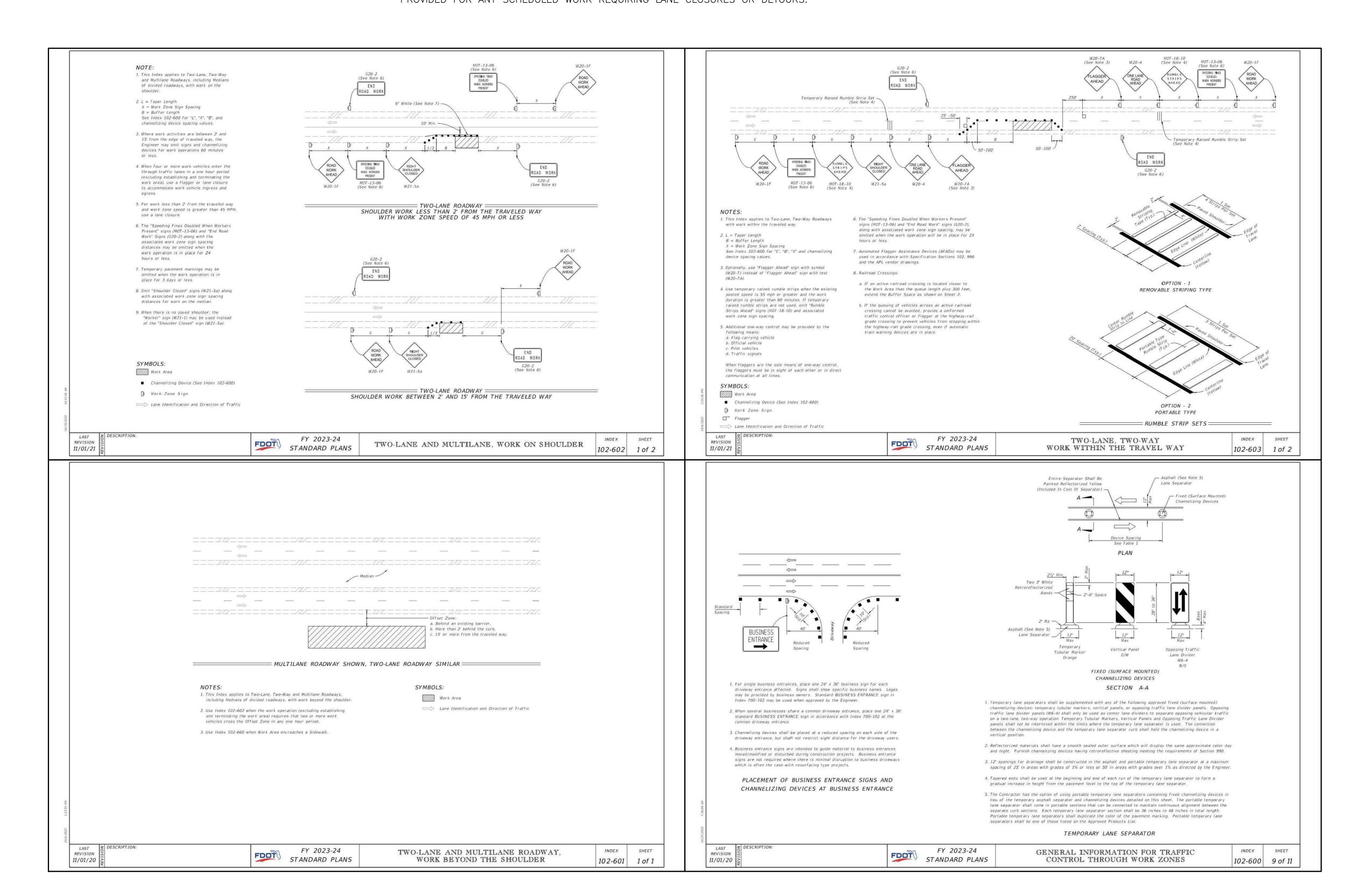
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- 1. THE EXISTING POSTED SPEED SHALL BE MAINTAINED FOR THE DURATION OF CONSTRUCTION. WORK ZONE SPEED SHALL NOT BE LESS THAN POSTED SPEED.
- 2. ARROWS DENOTE DIRECTION OF TRAFFIC ONLY AND DO NOT REFLECT PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.
- 3. THE CONTRACTOR IS TO MAINTAIN AND KEEP STREET NAME IDENTIFICATION SIGNS VISIBLE DURING CONSTRUCTION OPERATIONS TO FACILITATE EMERGENCY VEHICLE TRAFFIC.
- 4. PLACE BUSINESS ENTRANCE SIGNS IN ACCORDANCE WITH FDOT INDEX 102-600, SHEET 9.
- 5. EXISTING GUIDE SIGNS AND APPLICABLE WARNING SIGNS ARE TO BE RELOCATED DURING CONSTRUCTION TO ALIGN WITH ALL PHASE TRAFFIC PATTERNS.
- 6. THE CONTRACTOR SHALL CONTACT TRANSIT AND SCHOOL AUTHORITIES FOR THEIR BUS STOP LOCATIONS AND SCHEDULES TO MAINTAIN SAFE ACCESS TO THE RIDERS AT ALL TIMES.
- 7. ALL LANE CLOSURES SHALL BE COORDINATED WITH LOCAL EMERGENCY SERVICES. A MINIMUM OF 24 HOURS NOTICE SHALL BE PROVIDED FOR ANY SCHEDULED WORK REQUIRING LANE CLOSURES OR DETOURS.



2 ENT CITY Replacement Traffic

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