

RIVIERA HEIGHTS W 1 ST - W 3 ST NEIGHBORHOOD IMPROVEMENTS

CITY OF RIVIERA BEACH, FLORIDA

100% SUBMITTAL

DATE OF ISSUE: 02/20/2026



**Public Works Department
1481 W 15TH ST.
Riviera Beach, Florida 33404
Phone: 561.845.4080**

CITY COUNCIL

DOUGLAS LAWSON

BRUCE GUYTON

KASHAMBA MILLER-ANDERSON

SHIRLEY D. LANIER

DR. GLEN SPIRITIS

FERCELLA DAVIS PANIER

MAYOR

COUNCIL MEMBER, DISTRICT 1

CHAIR PRO TEAM, DISTRICT 2

CHAIRPERSON, DISTRICT 3

COUNCIL MEMBER, DISTRICT 4

COUNCIL MEMBER, DISTRICT 5

STAFF

JONATHAN E. EVANS

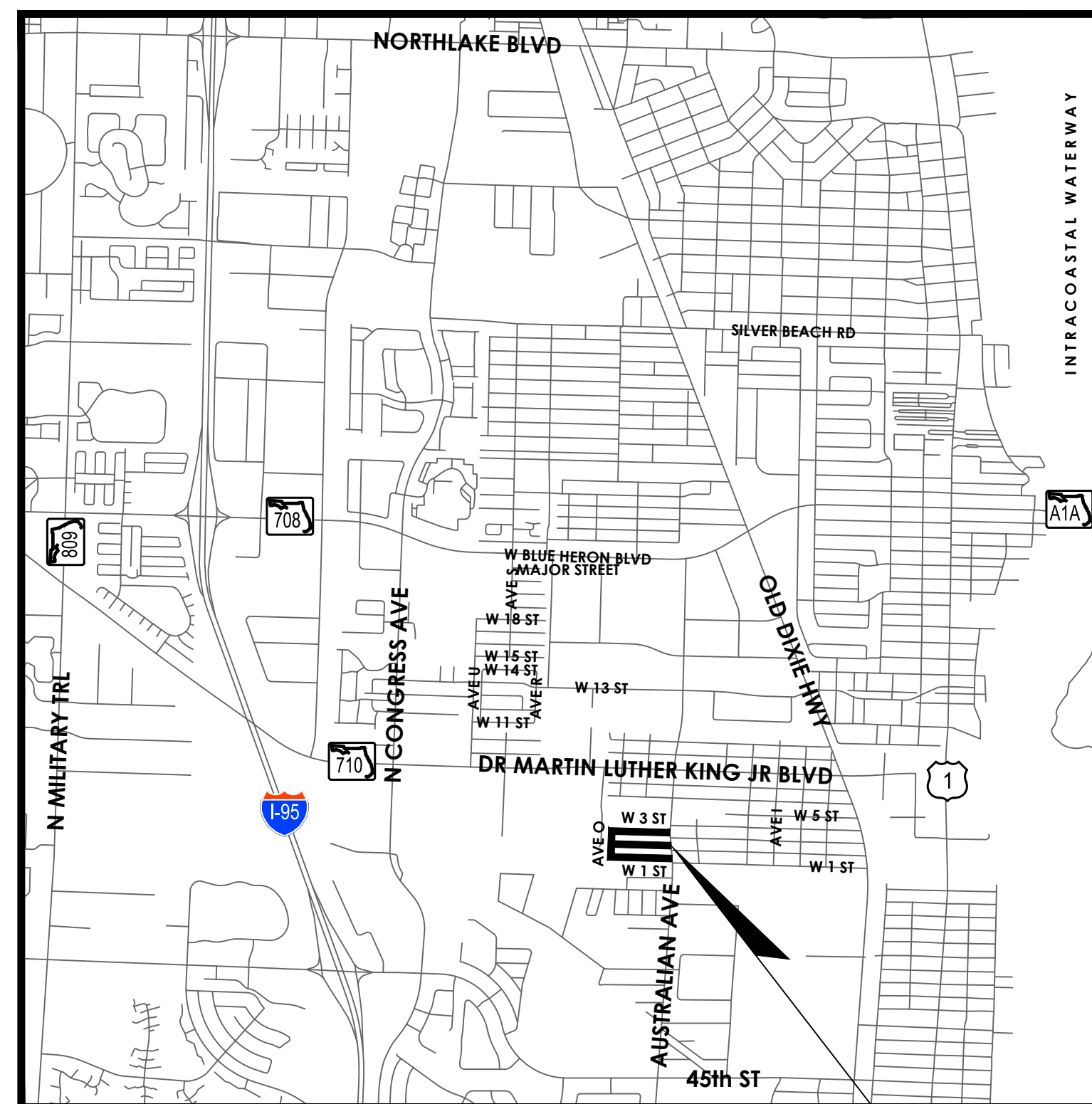
BERNARD BUXTON-TETTEH

TERRENCE N. BAILEY, P.E.

CITY MANAGER

PUBLIC WORKS DIRECTOR

CITY ENGINEER



SECTION 32, TOWNSHIP 42S, RANGE 43E

LOCATION MAP

N.T.

PROJECT LOCATION

Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com



500 Australian Avenue South
Suite 850

West Palm Beach, FL 33401

561.746.6900

www.chenmoore.com

INDEX OF DRAWINGS

SHT #	DWG #	DESCRIPTION
01	COV-1	COVER SHEET
02	KEY-1	KEY SHEET
03	GN-1	GENERAL NOTES
04	GN-2	GENERAL NOTES, ABBREVIATIONS AND TYPICAL SECTION
05 - 09	EC-1 - EC-5	EXISTING CONDITIONS AND DEMOLITION PLAN
10	DMP-1	DRAINAGE MAP
11 - 20	PGD-1 - PGD-10	PAVING GRADING AND DRAINAGE PLAN AND PROFILE
21 - 30	WS-1 - WS-10	WATER AND SEWER PLAN AND PROFILE
31 - 35	SM-1 - SM-5	SIGNING AND MARKING PLAN
36 - 42	DT-1 - DT-7	DETAILS

REGISTRATION

PROJECT NUMBER
26-0221.00036

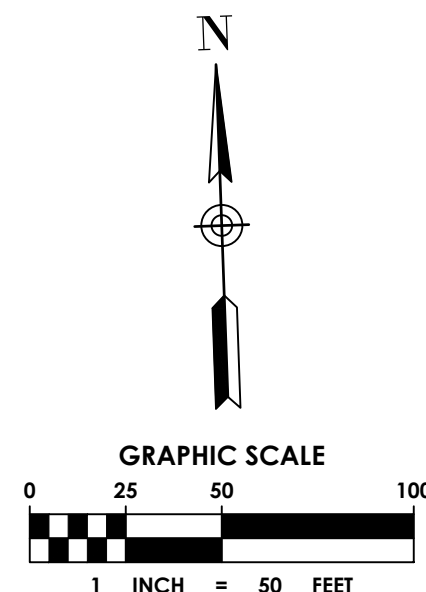
IVIERA BCH PROJECT NO
608-16

DRAWING NUMBER

COV-1

OF 42

Plot Date: 3/10/2026 10:37:26 AM Username: nwasiko Layout Name: KEY-1
Folder Path: V:\Projects\2026\26-0221.00036 - w 1st street - w 3rd street plan updates\Design\CAD\Sheets Filename: 15-221.001-RivHghts-10 Key Sheet.dwg



100% SUBMITTAL



500 Australian Avenue South
Suite 530
West Palm Beach, FL 33401
561.746.6900
www.chenmoore.com
CERTIFICATES OF AUTHORIZATION
EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE: _____

CLIENT



Public Works Department
2391 Avenue "I"
Riviera Beach, Florida 33404

PROJECT INFORMATION

RIVIERA HEIGHTS
W 1 ST - W 3 ST
NEIGHBORHOOD
IMPROVEMENTS

CITY OF RIVIERA
BEACH, FLORIDA

PROJECT NUMBER
26-0221.00036

RIVIERA BCH PROJECT NO
608-16

VERIFY SCALES
0" _____ 1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
02/20/2026

DESIGNED BY
MW

DRAWN BY
TN

CHECKED BY
SD

DRAWING TITLE

KEY SHEET

DRAWING NUMBER
KEY-1
02 OF 42

Plot Date: 3/10/2026 10:37:35 AM Username: nwasiko Layout Name: GN-1
Folder Path: V:\Projects\2026\26-0221.00036 - w 1st street - w 3rd street plan updates\Design\CAD\Sheets Filename: 15-221.001-RivHghts8-10 General Notes.dwg

GENERAL

- DISCREPANCIES IF ANY, SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER/ENGINEER BEFORE WORK COMMENCES.
- FIELD CHANGES OR DEVIATIONS FROM THE DESIGN SHALL NOT BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER/ENGINEER.
- CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL TERMS AND CONDITIONS, DIVISION 1 THRU 16 SPECIFICATIONS AND ALL CITY, COUNTY, STATE AND FEDERAL LAWS, CODES AND ORDINANCES WHERE APPLICABLE. IN THE EVENT OF A CONFLICT BETWEEN THE GENERAL NOTES AND CONSTRUCTION SPECIFICATIONS IN THESE PLANS AND THE CONTRACT DOCUMENTS AND SPECIFICATIONS IN THE SPECIFICATION BOOKLET, THE CONTRACTOR SHALL SUBMIT WRITTEN REQUEST FOR CLARIFICATION TO THE ENGINEER.
- THE CONTRACTOR SHALL GAIN COMPLETE FAMILIARITY WITH THE PROJECT SITE INCLUDING ACCESS LIMITATIONS, SUBSURFACE SOIL CONDITIONS AND GROUNDWATER LEVELS AS REFERENCED IN THE GEOTECHNICAL REPORT PREPARED BY PSI AND DATED MARCH 7, 2016.
- THE CONTRACTOR SHALL PROVIDE FOR ALL REQUIRED CLEARING AND GRUBBING. RUBBLE, DEBRIS AND OTHER UNUSABLE OR UNSUITABLE MATERIAL SHALL BE REMOVED AND PROPERLY DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
- CONSTRUCTION DEWATERING (WELL POINTS, SUMPS, ETC.) MAY REQUIRE A SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD) WATER USE/DEWATERING PERMIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING AND PAYING FOR SUCH A PERMIT, UNLESS NOTED OTHERWISE.
- WORK WITHIN CITY RIGHT-OF-WAY MAY REQUIRE A CITY PERMIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING AND PAYING FOR SUCH A PERMIT, UNLESS NOTED OTHERWISE.
- WORK SHALL COMPLY WITH THE STATE OF FLORIDA "TRENCH SAFETY ACT" OF OCTOBER 1, 1990, OR LATER.
- SHOP DRAWINGS FOR ALL CONSTRUCTION MATERIALS SHALL BE SUBMITTED TO THE OWNER/ENGINEER FOR REVIEW AND APPROVAL BEFORE STARTING WORK.
- THE CONTRACTOR SHALL FULLY RESTORE/REPLACE ALL EXISTING PAVEMENTS, DRIVEWAYS, SIDEWALKS, MAILBOXES, SOD, LANDSCAPING, IRRIGATION, LIGHTING, CONDUIT, CABLE, WATER SERVICES, ETC., AFFECTED BY THE WORK.
- THE CONTRACTOR SHALL PROVIDE VERTICAL AND HORIZONTAL AS-BUILT LOCATION INFORMATION SIGNED AND SEALED BY A LICENSED FLORIDA PROFESSIONAL LAND SURVEYOR FOR ALL PIPES ENCOUNTERED DURING CONSTRUCTION THAT ARE TO REMAIN.
- ALL UTILITY POLES SHOWN AS RELOCATED BY OTHERS SHALL BE INSTALLED WITHIN THE ONE FOOT (1') UTILITY STRIP BY FPL. RELOCATION OF SAID POLES IS ANTICIPATED PRIOR TO CONSTRUCTION COMMENCEMENT. CONTRACTOR SHALL COORDINATE WITH FPL ON FINAL POLE BURIAL DEPTH AND HOLDING OF POLES TO FACILITATE CONSTRUCTION.
- THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.
- THE MINIMUM DEPTH OF THE PROPOSED IRRIGATION SLEEVES SHALL BE 36" MINIMUM UNDER PAVEMENT AND 12" MINIMUM IN GRASS AREAS.
- THE CONTRACTOR SHALL PREPARE A VIDEO RECORD OF THE ROUTE AND WORK AREAS BEFORE CONSTRUCTION IS STARTED. PLANTS, DRIVEWAYS, PARKING LOTS, MAILBOXES, FRONT VIEW OF BUILDINGS ON BOTH SIDES OF THE STREET SHALL BE INCLUDED. PAYMENT FOR VIDEO RECORD OF THE ROUTE SHALL BE AS PART OF THE PRICE FOR MOBILIZATION; A COPY OF THE RECORD SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PAYMENT.
- THE CONTRACTOR SHALL ENSURE THAT THE EXISTING DRAINAGE SYSTEM FUNCTION UNTIL THE NEW DRAINAGE SYSTEM IS COMPLETE. COAST FOR MAINTAINING THE EXISTING DRAINAGE SYSTEM SHALL BE INCLUDED IN THE LINE ITEM COSTS FOR ALL OTHER CONSTRUCTION.

GRADING

- REFERENCE VERTICAL DATUM IS THE 1929 NATIONAL GEODETIC VERTICAL DATUM (NGVD).
- GRADES SHOWN ON THE PLANS ARE FINISHED GRADES UNLESS NOTED OTHERWISE. ALL AREAS SHALL BE SLOPED AS NECESSARY TO DRAIN.
- DRIVEWAY SLOPES SHALL BE IN ACCORDANCE WITH FDOT STANDARD INDEX 515.
- SIDEWALK SLOPES SHALL BE IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (2% MAXIMUM CROSS SLOPE, 5% MAXIMUM LONGITUDINAL SLOPE). SIDEWALK CROSS SLOPES SHALL BE 1% UNLESS OTHERWISE NOTED.

DRAINAGE

- REINFORCED CONCRETE PIPE (RCP) SHALL BE ASTM C-76, CLASS III, IN ACCORDANCE WITH SECTION 941 OF THE FDOT STANDARD SPECIFICATIONS.
- CORRUGATED METAL PIPE (CMP) SHALL BE IN ACCORDANCE WITH SECTION 943 OF THE FDOT STANDARD SPECIFICATIONS AND SHALL RECEIVE BITUMINOUS COATING TREATMENT.
- HIGH DENSITY POLYETHYLENE PIPE (HDPE) SHALL BE ADVANCED DRAINAGE SYSTEMS ADS N-12 PIPE OR APPROVED EQUAL.
- ALL DRAINAGE PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC.
- FILTER FABRIC SHALL BE AS MANUFACTURED BY MIRAFI OR APPROVED EQUIVALENT IN ACCORDANCE WITH SECTION 985 OF THE FDOT STANDARD SPECIFICATIONS.
- RIP-RAP SHALL BE SAND CEMENT TYPE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS.
- THE DRAINAGE SYSTEM SHALL BE FULLY CLEANED IN ITS ENTIRETY BEFORE FINAL ACCEPTANCE.
- A BENCHMARK SHALL BE ESTABLISHED ADJACENT TO EACH DRAINAGE CONTROL STRUCTURE.
- THE EXFILTRATION TRENCH FIELD SHALL BE DECREASED AT CROSSINGS WITH EXISTING UTILITIES TO REMAIN TO MAINTAIN A 1' CLEARANCE.

PAVEMENTS

- SUBGRADE SHALL BE STABILIZED IN ACCORDANCE WITH SECTION 160 OF THE FDOT STANDARD SPECIFICATIONS.
- BASE COURSE SHALL BE LIMEROCK OF EITHER MIAMI OR OCALA FORMATION IN ACCORDANCE WITH FDOT SPECIFICATIONS.
- BASE COURSE SHALL RECEIVE A PRIME COAT IN ACCORDANCE WITH SECTION 300 OF THE FDOT STANDARD SPECIFICATIONS.
- TYPE SP ASPHALTIC CONCRETE SHALL BE IN ACCORDANCE WITH SECTION 334 OF THE FDOT STANDARD SPECIFICATIONS.
- CONCRETE SHALL BE CLASS I, 4,000 PSI MINIMUM COMPRESSIVE STRENGTH, UNLESS NOTED OTHERWISE. REINFORCING SHALL BE GRADE 60 DEFORMED STEEL BARS IN ACCORDANCE WITH ASTM A-615.
- EXISTING ASPHALT SHALL BE SAWCUT ALONG A STRAIGHT LINE IN AREAS WHERE IT IS TO BE REMOVED.

SIGNING AND PAVEMENT MARKINGS

- SIGNING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
- PAVEMENT MARKINGS SHALL BE THERMOPLASTIC IN ACCORDANCE WITH SECTION 711 OF THE FDOT STANDARD SPECIFICATIONS UNLESS NOTED OTHERWISE.
- REFLECTIVE PAVEMENT MARKERS SHALL BE CLASS 'B' WITH ALL FOUR SIDES SECURED TO PAVEMENT WITH AN EPOXY ADHESIVE.

WATER AND SEWER MAINS

- PVC PIPE SHALL BE CLASS 150 (DR 18) IN ACCORDANCE WITH AWWA C900.
- DUCTILE IRON PIPE (DIP) SHALL BE MECHANICAL OR PUSH-ON JOINT TYPE, PRESSURE CLASS 350, MANUFACTURED IN ACCORDANCE WITH AWWA C151. DIP FOR WATER MAINS SHALL BE CEMENT LINED IN ACCORDANCE WITH AWWA C104. DIP FOR FORCE MAINS SHALL BE LINED WITH PROTECTO 401 CERAMIC EPOXY.
- FITTINGS SHALL BE DUCTILE IRON, MECHANICAL JOINT TYPE, MEETING THE REQUIREMENTS OF AWWA C110 OR C153. FITTINGS FOR WATER MAINS SHALL BE CEMENT LINED IN ACCORDANCE WITH AWWA C104. FITTINGS FOR FORCE MAINS SHALL BE LINED PROTECTO 401 CERAMIC EPOXY.
- DIP SHALL BE INSTALLED IN ACCORDANCE WITH AWWA C600. PVC PIPE SHALL BE INSTALLED IN ACCORDANCE WITH AWWA M23.
- WATER MAINS MAY BE DEFLECTED AS NECESSARY AT PIPE JOINTS TO ACHIEVE THE DESIGN ALIGNMENT. FITTINGS SHALL BE USED WHEN DEFLECTION EXCEEDS 75% OF THE MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION.
- WATER MAINS SHALL BE MECHANICALLY RESTRAINED AT ELBOWS, VALVES, TEES AND DEAD ENDS IN ACCORDANCE WITH THE UTILITY COMPANY DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE NOTED.
- WATER MAINS SHALL BE PLACED WITH A CONTINUOUS 10 GAUGE, THWN INSULATED, STRANDED COPPER LOCATOR WIRE SECURED TO THE TOP OF THE PIPE. WIRE SHALL BE CONTINUOUS FROM VALVE BOX TO VALVE BOX, WRAPPED TWICE AROUND EACH PIPE JOINT AND EXTENDED SUFFICIENTLY INTO EACH VALVE BOX OR CONCRETE COLLAR TO PERMIT ATTACHING LOCATOR DEVICES.
- WATER MAINS SHALL HAVE A MINIMUM COVER OF 36-INCHES UNLESS OTHERWISE NOTED. FORCE MAINS SHALL HAVE A MINIMUM COVER OF 36-INCHES UNLESS OTHERWISE NOTED. WHEN LESS 36" COVER IS SPECIFIED, PIPE SHALL BE DUCTILE IRON WITH THICKNESS CLASS 53. IN NO CIRCUMSTANCES SHALL A WATER MAIN OR FORCE MAIN HAVE LESS THAN 24" COVER.
- WATER MAINS SHALL BE FLUSHED AFTER INSTALLATION WITH AN APPROVED POLYURETHANE PIG IN ACCORDANCE WITH A FILLING/ FLUSHING PLAN DEVELOPED BY THE CONTRACTOR AND APPROVED BY THE OWNER/ENGINEER.
- WATER MAINS SHALL BE TESTED FOR LEAKAGE IN ACCORDANCE WITH ANSI/AWWA C600.
- WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH ANSI/AWWA C651 AND BACTERIOLOGICALLY TESTED FOR TWO CONSECUTIVE DAYS. TEST REPORTS SHALL BE SUBMITTED TO THE OWNER/ENGINEER WITH CHAIN OF CUSTODY. CONNECTION TO THE EXISTING SYSTEM WILL NOT BE ALLOWED PRIOR TO HEALTH DEPARTMENT OR FDEP APPROVAL OF CERTIFICATION AS APPLICABLE.
- WATER MAIN VALVES SHALL BE RESILIENT SEAT TYPE GATE VALVES IN ACCORDANCE WITH AWWA C509 OR C515.
- ALL CONNECTIONS AND TAPS SHALL BE LOCATED AT LEAST 24 INCHES FROM A FITTING OR BELL AND MINIMUM 18" BETWEEN SUCCESSIVE TAPS.
- NEW WATERLINE SHALL BE INSTALLED TESTED AND APPROVED BY PALM BEACH COUNTY HEALTH DEPARTMENT, SERVICES TRANSFERRED TO THE NEW MAIN PRIOR TO WORK ON DRAINAGE SYSTEM.
- CONNECTIONS TO EXISTING WATER MAINS SHALL BE MADE UNDER THE DIRECT SUPERVISION OF THE UTILITY COMPANY. PIPES AND FITTINGS USED TO COMPLETE THE CONNECTIONS SHALL RECEIVE CHLORINATION TREATMENT. EXISTING VALVES SHALL BE OPERATED BY UTILITY COMPANY PERSONNEL OR UNDER THEIR DIRECT SUPERVISION. TAPPING SLEEVES AND VALVES SHALL BE PRESSURE TESTED PRIOR TO INSTALLATION. IF CUSTOMER SERVICES MUST BE INTERRUPTED, THE UTILITY COMPANY SHALL BE INFORMED AT LEAST 72 HOURS IN ADVANCE TO MAKE THE NECESSARY NOTIFICATIONS. CUSTOMER SERVICES SHOULD NOT BE INTERRUPTED FOR MORE THAN 4 HOURS.
- POLYETHYLENE SERVICE TUBING SHALL BE COPPER TUBE SIZE (CTS), SDR 9, RATED FOR 200 PSI IN ACCORDANCE WITH ASTM D2737 AND AWWA C901.
- COUPLINGS AND FITTINGS FOR POLYETHYLENE TUBING SHALL BE GRIP- JOINT TYPE AS MANUFACTURED BY FORD OR APPROVED EQUIVALENT.
- GRAVITY SEWER MAINS SHALL BE PVC CLASS C-900 (SDR 26) AND SHALL BE GREEN IN COLOR.
- SEWER CLEANOUTS ARE TO BE INSTALLED AT PROPERTY LINE FOR EACH SERVICE.
- ALL SANITARY MANHOLE TOPS ARE TO BE READ " SANITARY"
- GRAVITY SEWER MAINS ARE TO BE TESTED VIA TELEVISION INSPECTION AND SEWER LAMPING BEFORE PAVING IS ALLOWED.
- ALL PORTABLE WATER PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT WILL BE COLOR CODED OR MARKED IN ACCORDANCE WITH F.A.C. 62-555.320(21)(b)3. USING BLUE AS THE PREDOMINANT COLOR. (UNDERGROUND PLASTIC PIPE WILL BE SOILD-WALL BLUE PIPE WILL HAVE A CO-EXTRUDED BLUE EXTERNAL SKIN, OR WILL BE WHITE OR BLACK WITH BLUE STRIPES INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL, PIPE STRIPED DURING THE MANUFACTURING OF THE PIPE WILL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT IS USED TO STRIPE PIPE DURING AND AFTER INSTALLATION OF THE PIPE, THE TAPE OR PAINT WILL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE; FOR PIPE WITH AN INTERNAL DIAMETER OR 24" OR GREATER, TAPE OR PAINT WILL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE. ABOVEGROUND PIPE WILL BE PAINTED BLUE OR WILL BE COLOR CODED OR MARKED LIKE UNDERGROUND PIPE.
- ALL METER BOXES, VALVE RISERS & COVERS AND MANHOLES TO REMAIN SHALL BE RAISED TO FINISH GRADE.
- WATER MAIN SHALL BE TESTED UNDER CONSTANT PRESSURE OF 150 P.S.I. FOR A MINIMUM TEST PERIOD OF 2 HOURS AND SHALL NOT EXCEED THE LEAKAGE REQUIREMENTS AS PER A.N.S.I./A.W.W.A. SPECIFICATIONS OF C-600-05 LEAKAGE FORMULA: $Q = (SD \sqrt{P}) / 148,000$
 Q = ALLOWABLE LEAKAGE, IN GALLONS PER HOUR
 D = DIAMETER OF THE PIPE TESTED, IN INCHES.
 S = TOTAL LENGTH OF PIPE TESTED, IN FEET.
 P = AVERAGE TEST PRESSURE, IN POUNDS PER SQUARE INCH.
- SANITARY LATERALS SHALL BE ADJUSTED WHERE IN CONFLICT WITH THE PROPOSED DRAINAGE OR WATER SYSTEM WITH A MINIMUM SEPARATION IN ACCORDANCE WITH F.A.C. 62-555.314.

PIPE HANDLING AND STORAGE

- HANDLING: PIPE, FITTINGS AND ACCESSORIES SHALL BE CAREFULLY INSPECTED BEFORE AND AFTER INSTALLATION. PIPE AND FITTINGS SHALL BE FREE FROM FINS AND BURRS. ITEMS FOUND TO BE DEFECTIVE SHALL BE REJECTED. PIPE SEGMENTS SHALL BE CAREFULLY LOWERED INTO TRENCHES WITH THE PROPER EQUIPMENT. PIPE, FITTINGS AND ACCESSORIES SHALL NOT BE DROPPED OR DUMPED INTO TRENCHES UNDER ANY CIRCUMSTANCES.
- STORAGE: PIPE SHOULD BE STORED AT THE JOB SITE IN UNIT PACKAGES PROVIDED BY THE MANUFACTURER. CAUTION SHOULD BE EXERCISED TO AVOID COMPRESSION DAMAGE OR DEFORMATION TO BELL ENDS OF THE PIPE. PIPE SHOULD BE STORED IN SUCH A WAY AS TO PREVENT SAGGING OR BENDING AND PROTECTED FROM EXPOSURE TO DIRECT SUNLIGHT BY COVERING WITH AN OPAQUE MATERIAL THAT PERMITS ADEQUATE AIR CIRCULATION ABOVE AND AROUND THE PIPE. GASKETS SHOULD BE STORED IN A COOL, DARK PLACE OUT OF THE DIRECT RAYS OF THE SUN, IN THE ORIGINAL PACKAGING.

PIPE INSTALLATION

- BELL-AND-SPIGOT PIPE SHALL BE PLACED WITH THE BELL END POINTING IN THE DIRECTION OF PIPE LAYING. PIPE SHALL BE GRADED IN STRAIGHT LINES, TAKING CARE TO PREVENT THE FORMATION OF ANY DIPS OR LOW POINTS. PIPE SHALL NOT BE LAID WHEN THE CONDITIONS OF TRENCH OR WEATHER ARE UNSUITABLE. AT THE END OF EACH WORK DAY, OPEN ENDS OF PIPE SHALL BE CLOSED TEMPORARILY WITH WOOD BLOCKS OR BULKHEADS.
- PIPE SHALL BE SUPPORTED AT ITS PROPER ELEVATION AND GRADE, TAKING CARE TO SECURE FIRM AND UNIFORM SUPPORT. WOOD SUPPORT BLOCKING SHALL NOT BE PERMITTED. THE FULL LENGTH OF EACH SECTION OF PIPE AND FITTINGS SHALL REST SOLIDLY ON THE PIPE BED, WITH RECESSED EXCAVATION TO ACCOMMODATE BELLS, JOINTS AND COUPLINGS. ANCHORS AND SUPPORTS SHALL BE PROVIDED WHERE NECESSARY AND WHERE INDICATED ON THE DRAWINGS FOR FASTENING WORK INTO PLACE. FITTINGS SHALL BE INDEPENDENTLY SUPPORTED.
- PIPE SEGMENTS SHALL BE OF SHORT LENGTHS IN AND OUT OF EACH RIGID JOINT OR RIGID STRUCTURE, WITH SUFFICIENT LENGTH PROVIDED FOR PROPER INSTALLATION OF JOINTING MATERIAL. BLOCKING OR WEDGING BETWEEN BELLS AND SPIGOTS SHALL NOT BE PERMITTED.
- PIPE SHALL BE CUT BY MEANS OF SAWS, POWER DRIVEN ABRASIVE WHEELS OR PIPE CUTTERS, TO PRODUCE A SQUARE CUT. WEDGE-TYPE ROLLER CUTTERS SHALL NOT BE PERMITTED. END OF PIPE SHALL BE BEVELED AFTER CUTTING USING A BEVELING TOOL, PORTABLE TYPE SANDER OR ABRASIVE DISC.

STANDARD WATER/SEWER SEPARATION STATEMENT

- WATER/SEWER SEPARATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THESE PLANS AND THE SPECIFIC CONDITIONS OUTLINED IN THE APPLICABLE PERMIT(S) FOR THE PROJECT.
- HORIZONTAL SEPARATIONS: SEPARATIONS SHALL BE MEASURED OUTSIDE EDGE TO OUTSIDE EDGE BETWEEN WATER MAINS AND, STORM SEWERS, STORM-WATER FORCE MAINS, OR RECLAIMED WATER LINES, SHALL BE 3 FT. MINIMUM. BETWEEN WATER MAINS AND VACUUM TYPE SEWER PREFERABLY 10 FT. AND AT LEAST 3 FT. MINIMUM. GRAVITY OR PRESSURE SANITARY SEWERS, WASTE WATER FORCE MAINS OR RECLAIMED WATER PREFERABLY 10 FT. AND AT LEAST 6 FT. MAY BE REDUCED TO 3 FT. WHERE BOTTOM OF WATER MAINS IS AT LEAST 6 " ABOVE TOP OF SEWER AND 10 FT. TO ANY PART OF ON-SITE SEWER TREATMENT OR DISPOSAL SYSTEM.
- VERTICAL SEPARATIONS: PER FLORIDA CODE NUMBER 62-555.314, MINIMUM VERTICAL SEPARATIONS BETWEEN WATER MAINS AND GRAVITY SEWER, VACUUM TYPE SEWER, OR STORM SEWERS, TO BE PREFERABLY 12 INCHES IF WATER MAIN IS UNDER STORM OR SANITARY SEWER, OR AT LEAST 6 INCHES WHEN ABOVE.
- *NOTE: CENTER 1-FULL LENGTH OF WATER MAIN PIPE AT CROSSINGS; ALTERNATIVELY ARRANGE PIPES SO JOINTS ARE AT LEAST 3 FEET FROM JOINTS IN VACUUM, STORM OR STORM FORCE MAINS. AT LEAST 6 FEET FROM JOINTS IN GRAVITY OR PRESSURE SEWERS, WASTEWATER FORCE MAINS OR RECLAIMED WATER.

UTILITIES

- ALL CONCERNED UTILITY SERVICE PROVIDERS SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO INITIATING CONSTRUCTION WORK.
- THE LOCATIONS AND SIZES OF EXISTING UTILITIES DEPICTED ON THE PLANS ARE APPROXIMATE AND BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF DESIGN. ADDITIONAL UTILITIES NOT SHOWN ON THE PLANS MAY BE PRESENT.
- EXISTING UNDERGROUND UTILITIES SHALL BE ACCURATELY LOCATED ELECTRONICALLY AND/OR BY HAND EXCAVATION IN COORDINATION WITH APPLICABLE UTILITY COMPANIES PRIOR TO BEGINNING WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES ASSOCIATED WITH HOLDING UTILITY LINES AND/OR POLES AS REQUIRED.
- THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES AT ALL TIMES DURING CONSTRUCTION INCLUDING PROVIDING DIRECT SUPPORT AND/OR SHORING OF EXCAVATED AREAS. THE CONTRACTOR SHALL NOTIFY AFFECTED UTILITY COMPANIES PRIOR TO ATTEMPTING ANY FACILITY SUPPORT. IF THE UTILITY COMPANY REQUIRES THAT ONLY THEIR CREWS MAY SUPPORT THEIR FACILITIES, THEN THE CONTRACTOR SHALL PROVIDE FOR THE COORDINATION AND PAYMENT.
- EXISTING VALVE BOXES AND MANHOLE COVERS LOCATED WITHIN WORK AREAS SHALL BE ADJUSTED BY CONTRACTOR AS REQUIRED.

INTERRUPTION OF EXISTING UTILITIES

- ANY CONSTRUCTION WORK THAT REQUIRES INTERRUPTION OF SERVICE TO ANY CUSTOMER SHALL BE DONE SO WITH A MINIMUM OF SEVENTY-TWO (72) HOUR NOTICE TO, AND WRITTEN APPROVAL BY THE APPROPRIATE UTILITY COMPANY. THE CONTRACTOR SHALL ARRANGE A MEETING WITH THE LOCAL JURISDICTIONAL AGENCIES AND OTHER GOVERNING AGENCIES, AND OTHER AFFECTED UTILITIES PRIOR TO SCHEDULING THE SHUTDOWN TO ASSESS THE SCOPE OF WORK. ALL SYSTEM SHUT DOWNS SHALL BE SCHEDULED BY THE CONTRACTOR AT SUCH TIME THAT SYSTEM DEMAND IS LOW. THIS GENERALLY REQUIRES NIGHT TIME WORK BY THE CONTRACTOR AND REQUIRES FULL TIME INSPECTION BY A REPRESENTATIVE OF THE UTILITY. ALL COST OF OVERTIME WORK BY THE REPRESENTATIVE OF THE UTILITY SHALL BE BORNE BY THE CONTRACTOR.

TESTING

- BACKFILL COMPACTION TESTS SHALL BE CONDUCTED BY AN INDEPENDENT TESTING LAB. FOR TYPICAL PIPE TRENCHES, DENSITY TESTS SHALL BE PERFORMED AT 500 FEET (MAXIMUM) INTERVALS. FOR OPEN-CUT PIPE TRENCHES ACROSS ROADS AND DRIVEWAYS, DENSITY TESTS SHALL BE PERFORMED AT 50 FEET (MAXIMUM) INTERVALS. TESTS SHALL BE CONDUCTED AT THE TOP OF PIPE AND FOR EVERY SIX-INCH (6") LAYER TO FINISHED GRADE. CERTIFIED TEST REPORTS SHALL BE PROVIDED TO THE OWNER/ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE TESTING LAB AS NECESSARY DURING THE PROGRESS OF WORK. THE OWNER RESERVES THE RIGHT TO APPROVE THE TESTING LAB, BUT THE COST OF DENSITY TESTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

- TESTING SHALL BE PERFORMED FOR THE FOLLOWING ITEMS WITH CERTIFIED REPORTS PROVIDED TO THE OWNER/ENGINEER FOR REVIEW/APPROVAL:

-BACKFILL GRADATION AND COMPACTION.
-SUBGRADE STABILIZATION AND COMPACTION.
-BASE COURSE COMPOSITION AND COMPACTION.
-ASPHALT COMPOSITION/GRADATION AND COMPACTION.
-CONCRETE BREAK STRENGTH.

EROSION CONTROL

- THE PROJECT SHALL BE CONSTRUCTED IN A MANNER SO AS TO MINIMIZE ANY ADVERSE IMPACTS TO FISH AND WILDLIFE. COUNTERMEASURES SHALL BE EMPLOYED BY THE CONTRACTOR DURING CONSTRUCTION AS REQUIRED TO PROTECT ON-SITE WATER QUALITY AND OFF-SITE DISCHARGES.
- EROSION, SHOALING AND/OR WATER QUALITY PROBLEMS CAUSED BY CONSTRUCTION ACTIVITIES SHALL BE IMMEDIATELY CORRECTED.
- INLET STRUCTURES AND PIPE SHALL BE PROTECTED DURING CONSTRUCTION BY WAY OF PLYWOOD, PLASTIC, FILTER FABRIC AND/OR PLUGS TO PREVENT SILTATION.
- SOD SHALL BE REPLACED OVER ALL DISTURBED AREAS AS SOON AS PRACTICAL AFTER FINAL GRADING TO PREVENT EROSION. SOD TYPE SHALL MATCH EXISTING UNLESS OTHERWISE SPECIFIED.

MAINTENANCE OF TRAFFIC

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER MAINTENANCE AND SAFE CONTROL OF VEHICULAR AND PEDESTRIAN TRAFFIC AT ALL TIMES FOR THE DURATION OF CONSTRUCTION ACTIVITIES. DETAILED MAINTENANCE OF TRAFFIC PLANS FOR ALL PHASES OF THE WORK SHALL BE SUBMITTED TO THE OWNER/ENGINEER PRIOR TO THE BEGINNING OF CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL EMPLOY VARIABLE MESSAGE BOARDS FROM INSTALLATION OF FIRST LIFT OF ASPHALT UNTIL ONE WEEK AFTER FINAL STRIPING OF SECOND LIFT NOTIFYING RESIDENTS OF CHANGED TRAFFIC PATTERN. CONTRACTOR SHALL IMPLEMENT ONE WAY STREET PATTERN DURING CONSTRUCTION AND PROVIDE APPROPRIATE SIGNAGE AS NEEDED.

SURVEY NOTES

- EXISTING CONDITIONS PRESENTED ARE BASED ON A TOPOGRAPHIC SURVEY PROVIDED BY KEITH & SCHNARS, P.A., PROJECT NO. 18189C, DATE OF SURVEY 4/6/2015. ADDITIONAL INFORMATION WAS OBTAINED FROM AS-BUILTS AND RECORD DRAWINGS PROVIDED BY UTILITY COMPANIES, G.I.S. INFORMATION AND
- FIELD VISITS.

ELEVATIONS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929. ELEVATIONS ARE BASED ON PALM BEACH COUNTY BENCHMARK "E 548" ELEVATION=15.575' AND PALM BEACH COUNTY BENCHMARK "REYNOLDS" ELEVATION=11.116'.

Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com

100% SUBMITTAL

cma
chen moore and associates

500 Australian Avenue South
Suite 530
West Palm Beach, FL 33401
561.746.6900
www.chenmoore.com

CERTIFICATES OF AUTHORIZATION
EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE: _____

CITY OF RIVIERA BEACH
PALM BEACH COUNTY, FL

Public Works Department
2391 Avenue "I"
Riviera Beach, Florida 33404

PROJECT INFORMATION

**RIVIERA HEIGHTS
W 1 ST - W 3 ST
NEIGHBORHOOD
IMPROVEMENTS**

CITY OF RIVIERA
BEACH, FLORIDA

PROJECT NUMBER
26-0221.00036

RIVIERA BCH PROJECT NO
608-16

VERIFY SCALES
0"=1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
02/20/2026

DESIGNED BY
MW

DRAWN BY
TN

CHECKED BY
SD

DRAWING TITLE

GENERAL NOTES

DRAWING NUMBER
GN-1
03 OF 42

Plot Date: 3/10/2026 10:37:43 AM Username: nwasiko Layout Name: GN-2
Folder Path: V:\Projects\2026\26-0221.00036 - w 1st street - w 3rd street plan updates\Design\CAD\Sheets Filename: 15-221.001-RivHghts8-10 General Notes.dwg

SOIL CONSERVATION PLAN

- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A SPECIFIC SOIL CONSERVATION PLAN/CONTROL PLAN TO THE OWNER/ENGINEER FOR REVIEW AND APPROVAL. THE PLANS SHALL DESCRIBE THE PROVISIONS FOR ASSURING THAT ALL ONSITE SOILS SHALL REMAIN ONSITE DURING CONSTRUCTION AND WILL NOT ERODE INTO ADJACENT PROPERTIES, ADJACENT ROADSIDE SWALES, OR RETENTION AREAS. AS A MINIMUM THE PLANS SHALL INCLUDE THE FOLLOWING:
- ALL EXISTING DRAINAGE SWALES SHALL REMAIN SODDED DURING CONSTRUCTION.
 - SCARIFICATION SHALL BE PERFORMED ONLY TO THE EXTENT ABSOLUTELY NECESSARY.
 - HAY BALES AND SILTATION FENCES (PER FDOT INDEX 102) SHALL BE USED DURING CONSTRUCTION TO PROTECT OFFSITE AREAS FROM DISCHARGE.
 - HAY BALES AND SILTATION FENCES (PER FDOT INDEX 102) SHALL BE USED DURING CONSTRUCTION TO PROTECT DRAINAGE SWALES AND RETENTION AREAS FROM ANY DEWATERING AND/OR PUMPING OF WATER.
 - ALL DISTRIBUTED AREAS SHALL BE SODDED AS SOON AS PRACTICAL TO PREVENT EROSION.
 - DRAINAGE SWALES AND RETENTION AREAS SHALL BE STABILIZED AND SODDED IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.

TURBIDITY CONTROL PLAN

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A SPECIFIC TURBIDITY CONTROL PLAN TO THE OWNER/ENGINEER FOR REVIEW AND APPROVAL. THE TURBIDITY CONTROL PLAN SHALL DESCRIBE IN DETAIL THE PROPOSED METHODS FOR CONTROLLING SEDIMENTS AND PROTECTING WATER QUALITY IN ALL AREAS DOWNSTREAM OF THE CONSTRUCTION WORK. THE PLAN SHALL ADDRESS THE USE OF TURBIDITY BARRIERS SUCH HAY BALES, SILT SCREENS, FLOATING CURTAINS, ETC. AND PROVIDE FOR TURBIDITY MONITORING AS APPROPRIATE.

PUBLIC WORKS RECORD DRAWING REQUIREMENTS

AT THE COMPLETION OF CONSTRUCTION, THE CONTRCTOR SHALL PROVIDE A CERTIFIED AS-BUILT SURVEY. THE SURVEY SHALL BE DELIVERED IN ONE (1) REPRODUCIBLE MYLAR COPY, THREE BLUE LINE COPIES AND ONE (1) ELECTRONIC FILE IN AN APPROVED CADD FORMAT ON CD-ROM. THE AS-BUILT SURVEY SHALL BE PREPARED IN PLAN AND PROFILE FORMAT BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA AND SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF THE FLORIDA ADMINISTRATIVE CODE AND CHAPTER 472 OF THE FLORIDA STATUTES. THE DRAWINGS SHALL BE AT A SCALE COMPARABLE THE THE DESIGN DRAWINGS PREPARED BY THE ENGINEER AND SHALL REFERENCE THE BASELINE OF SURVEY APPEARING ON THE ENGINEERING DRAWINGS.THE HORIZONTAL AND VERTICAL LOCATIONS OF ROADWAYS, PARKING AREAS, DRAINAGE FACILITIES, WATER MAINS, SEWER MAINS AND APPURTENANCES SHALL BE ACCURATELY DEPICTED TO SCALE AND SHALL BE IDENTIFIED RELATIVE TO THE BASELINE AND ANY READILY IDENTIFIABLE PERMANENT OR SEMI-PERMANENT REFERENCE POINTS EXISTING AFTER COMPLETION OF CONSTRUCTION. LOCATIONS SHALL BE ESTABLISHED AT INTERVALS NOT EXCEEDING ONE HUNDRED FEET (100') AS MEASURED ALONG ROADWAYS AND/OR UTILITY WATER/SEWER MAINS. PROFILES SHALL ACCURATELY REFLECT THE VERTICAL LOCATIONS OF ALL PIPES AND THE FINISHED GRADES OVER THEM. PIPE SIZE AND MATERIAL SHALL BE IDENTIFIED ON BOTH THE PLAN AND PROFILE VIEWS. UNDERGROUND UTILITIES CROSSING THE MAINS OR PARALLELING THEM WITHIN TWENTY FEET (20') SHALL BE IDENTIFIED BY TYPE, SIZE AND MATERIAL AND SHALL BE ACCURATELY SHOWN BOTH HORIZONTALLY AND VERTICALLY. SURVEY DRAWINGS PROVIDED SHALL BEAR THE ORIGINAL SIGNATURE AND EMBOSSED SEAL OF THE SURVEYOR. THE CONTRACTOR SHALL PROVIDE A VIDEO TAPING OF DRAINAGE INSTALLATION IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS.

ADDITIONAL ASBUILT DATA MAY BE REQUIRED IN ACCORDANCE WITH SOUTH FLORIDA WATER MANAGEMENT DISTRICT AND PALM BEACH COUNTY HEALTH DEPARTMENT PERMITS FOR THIS PROJECT.

A LIME ROCK AS BUILT IS REQUIRED PRIOR TO ANY PAVING. THE ROCK AS-BUILTS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL. LIME ROCK AS BUILTS SHALL BE PREPARED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA.

EXCAVATION

COST OF INSTALLATION FOR INSTALLING DRAINAGE, WATER AND SANITARY PIPES SHALL BE INCLUDED IN THE UNIT PRICE FOR THE RESPECTIVE PIPES AND SHALL NOT BE ADDED TO ITEM 120-1 EXCAVATION.

ABBREVIATIONS

A/C	AIR CONDITIONER	MS	MULTI-STEM
A.E.	ANCHOR EASEMENT	MW	MONITORING WELL
BFP	BACKFLOW PREVENTOR	N/D	NAIL AND DISC
CB	CATCH BASIN	NOD	NATIONAL GEODETIC VERTICAL DATUM
CBS	CONCRETE BLOCK STRUCTURE	OHW	OVERHEAD WIRES
CI	CURB INLET	P.A.	PROFESSIONAL ASSOCIATION
CL	CHAIN LINK FENCE	P.B.	PLAT BOOK
CLP	CONCRETE LIGHT POLE	P.B.C.R.	PALM BEACH COUNTY RECORDS
CMP	CORRUGATED METAL PIPE	PG	PAGE
CO	CLEANOUT	PK	PARKER KALON
CONC	CONCRETE	P.L.S.	PROFESSIONAL LAND SURVEYOR
COV	COVERED	PVC	POLYVINYL CHLORIDE PIPE
CP	CONCRETE POLE	RCP	REINFORCED CONCRETE PIPE
C&G	CURB AND GUTTER	SMH	SANITARY SEWER MANHOLE
DIP	DUCTILE IRON PIPE	TYP	TYPICAL
DMH	DRAINAGE MANHOLE (STORMWATER)	U.E.	UTILITY EASEMENT
DWY	DRIVEWAY	UTD	UNABLE TO DETERMINE
DWS	DETECTABLE WARNING SURFACE	WF	WOOD FENCE
EB	ELECTRIC BOX	WLP	WOOD LIGHT POLE
EL	ELEVATION	WM	WATER METER
EM	ELECTRIC METER	WP	WOOD POLE
EX	EXISTING		
FH	FIRE HYDRANT		
FND	FOUND		
GV	GATE VALVE		
HTA	HEAVY TRAFFIC AREA		
ICB	IRRIGATION CONTROL BOX		
ICV	IRRIGATION CONTROL VALVE		
ID	IDENTIFICATION		
INV.	INVERT		
IP	IRON PIPE		
IPC	IRON PIPE WITH CAP		
IR	IRON ROD		
IRC	IRON ROD WITH CAP		
LB	LICENSED BUSINESS		
MAG	MAGNETIC		
MF	METAL FENCE		
MH	MANHOLE		
M.L.P	METAL LIGHT POLE		
MP	METAL POLE		

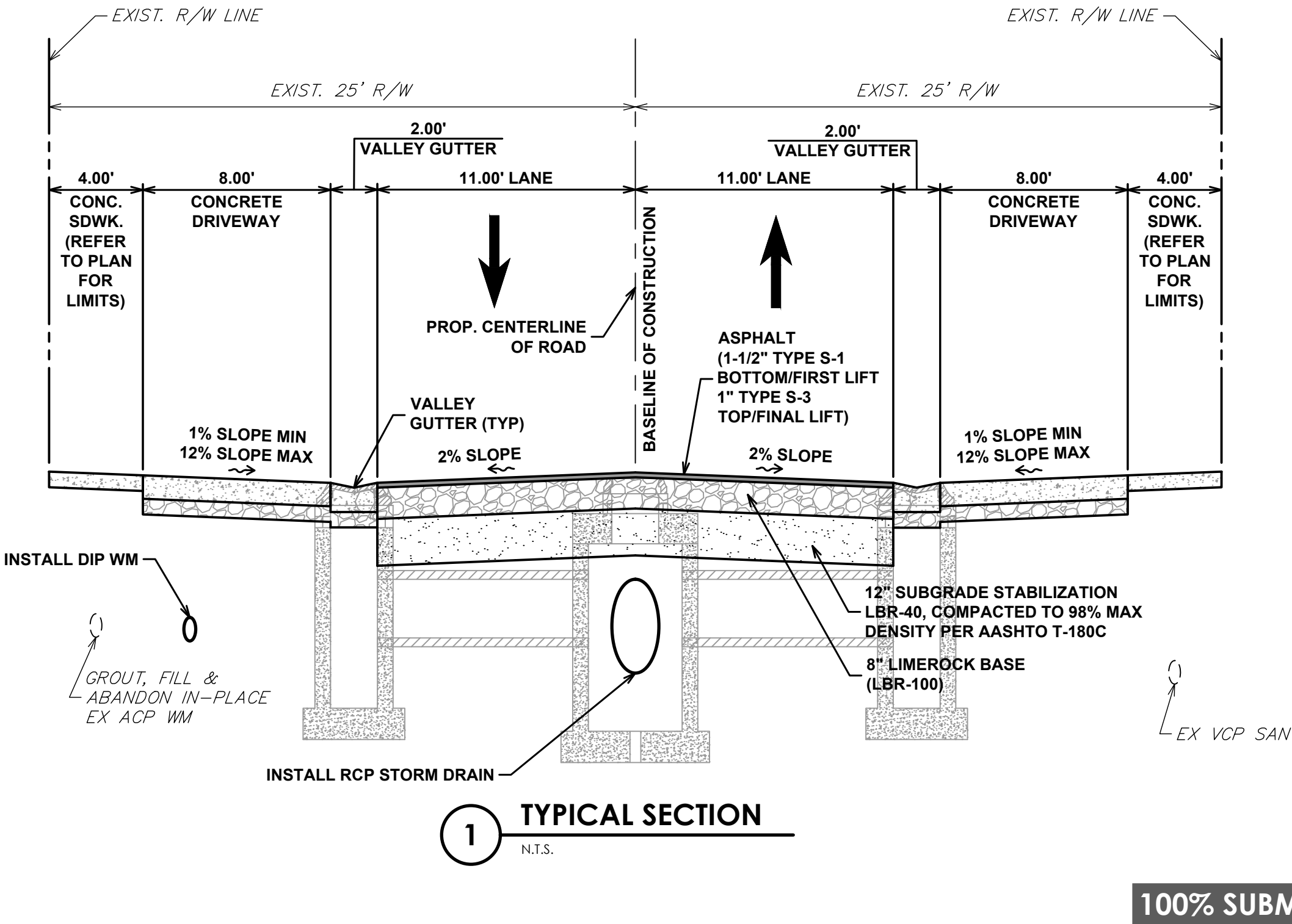
CITY OF RIVIERA BEACH
WATER AND SEWER AS-BUILTS

CERTIFICATION:
CERTIFIED AS-BUILTS ARE TO BE PROVIDED BY A STATE OF FLORIDA LICENSED LAND SURVEYOR. CERTIFIED AS-BUILTS SHALL ACCURATELY REFLECT ALL FIELD DESIGN REVISIONS MADE DURING THE CONSTRUCTION PROCESS. ALL REQUIRED AS-BUILT INFORMATION SHALL BE CLEARLY SHOWN ON THE ORIGINAL DESIGN DRAWINGS APPROVED FOR CONSTRUCTION BY THE CITY OF RIVIERA BEACH. A NEW SET OF AUTOCAD PREPARED DRAWINGS AND DIGITAL FILES (DWG FORMAT) SHOWING THE OVERALL WATER AND/OR SEWER SYSTEM LAYOUT ALONG WITH THE PROPERTY OR SUBDIVISION BOUNDARIES MUST BE SUBMITTED WHICH ARE BASED UPON THE AS-BUILT INFORMATION. IN EITHER CASE, EACH SHEET OF THE AS-BUILT PLANS SHALL INCLUDE THE FOLLOWING STATEMENT ALONG WITH THE PROFESSIONAL SURVEYOR'S STAMP AND DATE OF EXPIRATION OF SAID STAMP. THE STAMP SHALL BE SIGNED AND THE EXPIRATION DATE FILLED IN. THE STATEMENT SHOULD BE LOCATED IN THE BOTTOM LEFT HAND CORNER OF THE AS-BUILT DRAWING WHENEVER POSSIBLE.
"I CERTIFY THAT THE LOCATIONS, ELEVATIONS, DEPTHS, AND AS-BUILT COMMENTS REFLECTING MATERIALS ACTUALLY USED DURING CONSTRUCTION ACCURATELY REFLECT EXISTING FIELD CONDITIONS AS DETERMINED BY ME OR UNDER MY DIRECT SUPERVISION ON THIS _____"
DATE: _____
PROFESSIONAL PLS STAMP, EXPIRATION DATE & SIGNATURE
ACCEPTABLE FORMAT:
• COORDINATE VALUES IN STATE PLANE COORDINATE SYSTEM ,NAD 1983 FLORIDA EAST FIPS 0901(FEET)
• ALL ELEVATIONS WILL BE BASED ON NGVD29

MINIMUM AS-BUILT REQUIREMENTS:
THE FOLLOWING AS-BUILT REQUIREMENTS ARE INTENDED TO PROVIDE A GUIDE AS TO THE MINIMUM CRITERIA FOR DEVELOPERS, ENGINEERS OF RECORD, AND LICENSED LAND SURVEYORS, AND SHOULD BE USED ALONG WITH GOOD ENGINEERING AND SURVEYING PRACTICES FOR THE TYPE OF PROJECT AND AS THE SITUATION WARRANTS.
GENERAL:
IDENTIFY AND SHOW ON THE "AS-BUILT PLANS" ALL EXISTING OR ABANDONED UTILITIES THAT WERE ENCOUNTERED DURING CONSTRUCTION THAT WERE NOT SHOWN ON THE DESIGN PLANS OR THAT WERE SHOWN ON THE DESIGN PLANS INCORRECTLY.
THE PREFERRED METHOD TO SHOW LOCATIONS (BOTH FOR PROPOSED CONSTRUCTION AND AS-BUILTS) IS BY THE USE OF SURVEY LINES OR CENTERLINES BETWEEN EXISTING SURVEY MONUMENTS WITH SUITABLE DISTANCES (OR STATIONS) AND OFFSETS GIVEN RELATIVE TO THESE LINES.
THE USE OF ASSUMED ELEVATIONS IS NOT ACCEPTABLE, ALTHOUGH THE UTILITIES DEPARTMENT MAY AT ITS OPTION ACCEPT DEPTHS MEASURED WITH RESPECT TO THE TOP OF EXISTING PAVEMENT SURFACES, IN LIEU OF ACTUAL ELEVATIONS, DEPENDING ON THE SCOPE OF THE PROPOSED PROJECT.

IN ADDITION, THE FOLLOWING INFORMATION SHALL BE SHOWN/CORRECTED ON THE "AS-BUILT PLANS":
SANITARY SEWER PROJECTS:
MANHOLES: LOCATIONS, TYPES, RIM AND INVERT ELEVATIONS.
SEWER LINES: LOCATIONS, MATERIALS, LENGTHS, SLOPES, DIAMETERS, ELEVATIONS ALONG THE TOP OF THE PIPE AT 100 FOOT MAXIMUM INTERVALS, DIAMETER AND LOCATIONS OF SIDE SEWER TEES AND STUBOUTS, AND INVERT ELEVATIONS.
SIDE SEWER LINES: TEE LOCATIONS, MATERIALS, LENGTHS, SLOPES, DIAMETER, INVERT ELEVATIONS, AND DEPTHS OF BURIED STUBOUTS.
PUBLIC UTILITY EASEMENTS: LEGAL DESCRIPTIONS, WIDTHS, AND LOCATION OF SANITARY APPURTENANCES WITHIN THE EASEMENT.
TV REPORTS: IF REQUIRED COMPARISON OF SIDE SEWER LOCATIONS SHOWN ON SEWER LINE ASBUILTS WITH THE TV REPORTS.
WATER SYSTEM PROJECTS:
WATER MAIN PIPES: LOCATIONS, MATERIALS, DEPTHS OR ELEVATIONS AT 100 FOOT MAXIMUM INTERVALS AND AT ALL UTILITY CROSSINGS, LENGTHS, AND DIAMETERS.
WATER VALVES: LOCATIONS, TYPES, ALIGNMENT, AND DEPTH OR ELEVATION.
FIRE HYDRANTS: LOCATIONS, SIZES, AND ALIGNMENT.
BLOW-OFFS: LOCATIONS, SIZES, AND ALIGNMENT.
AIR AND VACUUM RELIEF VALVES: LOCATIONS, VAULT SIZES, DEPTHS, AND ALIGNMENT.
PRESSURE REDUCING VALVE: LOCATION, VAULT SIZE, DEPTH, ALIGNMENT, AND AS-CONSTRUCTED CLEARANCES WITHIN VAULT.
WATER MAIN BLOCKING: LOCATION AND APPROXIMATE VOLUME/BEARING SURFACE AREA.
WATER METERS: LOCATION AND SIZE.
WATER SERVICE LINES: CORP LOCATION, MATERIALS, DIAMETER, LENGTHS, DEPTH, AND STUBOUT LOCATION. DETAILED OR COMPLEX CONNECTIONS: AS APPLICABLE FOR SITUATION.
FIRE FLOW LINES: LOCATION, MATERIALS, DIAMETER, LOCATION AND SIZE OF DETECTOR VAULT, AND ANY REVISIONS MADE TO DETECTOR APPURTENANCES DURING CONSTRUCTION.

TEST HOLE TABLE DATA								
TEST HOLE NO.	ROADWAY	UTILITY TYPES	SIZE AND MATERIAL	DIRECTION	GROUND ELEVATION	COVER (ft)	EXISTING TOP	NOTES
1	W 3 ST	GAS	2" STEEL	E	16.08	2.4	13.60	NO NOTES
2	W 3 ST	WATER	12" CI	N	15.99	2.9	13.09	NO NOTES
3								UNABLE TO FIND LIFT STATION, ARV, OR VALVES IN AREA TO CONFIRM REPORTED FM.
4	W 3 ST	WATER	4" AC	W	15.59	3.6	11.99	ALL TIES PULLED TO TOP OF WATER.
5	W 3 ST	WATER	6" AC	W	14.75	2.6	12.15	ALL TIES PULLED TO TOP OF WATER.
6	AVENUE O	WATER	6" AC	N	14.17	3.3	10.87	ABLE TO PROBE WITH AIR LANCE AND GET TO NORTH AND WEST EDGE OF ROUGH POUR CONCRETE. ALL TIES PULLED TO CENTER OF "T"
7	W 2 ST	WATER	6" AC	E	14.90	3.0	11.90	NO NOTES
8								TV TO HOUSES ALL OVERHEAD, NO DROPS FROM POLES FROM MLK TO PIONEER. NO TV DETECTED UNDERGROUND.
9	W 14th ST	WATER	4" AC	E	13.26	3.4	9.86	NO NOTES
10								TV TO HOUSES ALL OVERHEAD, NO DROPS FROM POLES FROM MLK TO PIONEER. NO TV DETECTED UNDERGROUND.
11	W 1 ST	WATER	6" AC	E	14.75	3.6	12.75	NO NOTES
12	AVENUE O	GAS	2" STEEL	E	14.23	1.9	12.33	NO NOTES



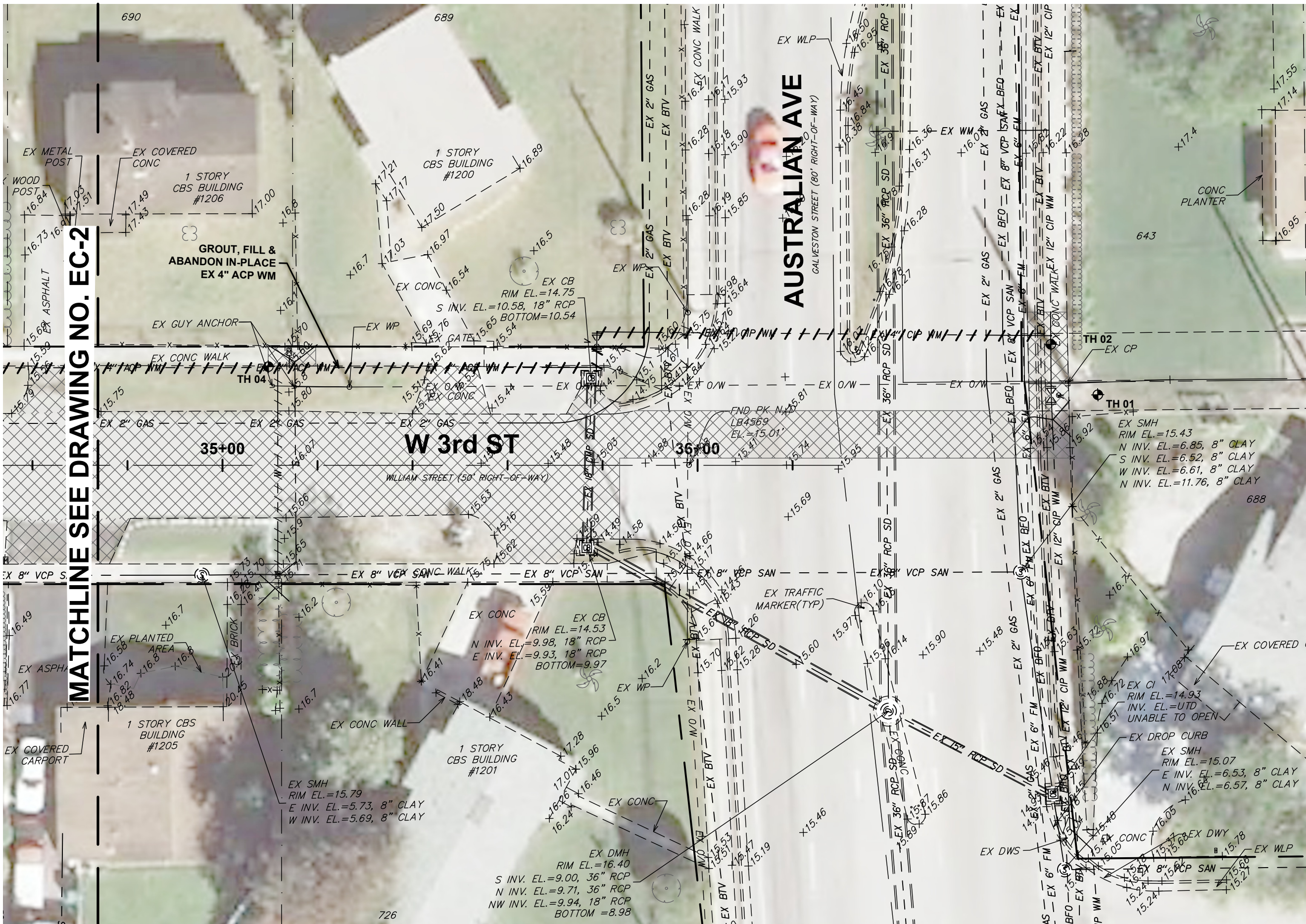
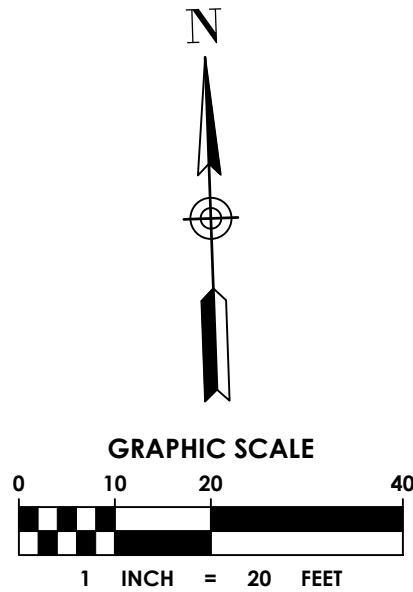


LEGEND

---	PLAT LINE
---	RIGHT-OF-WAY LINE
---	LOT LINE
---	CENTER LINE
---	EASEMENT LINE
---	EXISTING STORM DRAIN PIPE
---	EXISTING WATER MAIN PIPE
---	EXISTING WATER SERVICE LATERAL
---	EXISTING SANITARY SEWER PIPE
---	EXISTING SEWER SERVICE LATERAL
---	EXISTING ELEVATION
---	EXISTING FENCE
---	EXISTING FIRE HYDRANT
---	EXISTING GATE VALVE
---	EXISTING WATER METER
---	EXISTING CATCH BASIN
---	EXISTING GUYWIRE ANCHOR
---	EXISTING TREE
---	EXISTING PINE TREE
---	EXISTING PALM TREE
---	EXISTING SPOTLIGHT AND/OR FLOODLIGHT
---	EXISTING SIGN
---	EXISTING SHRUB/HEDGE
---	REMOVE ITEM WITHIN AREA
---	REMOVE, GROUT AND/OR ABANDON IN-PLACE ITEM AS INDICATED ON PLAN

GENERAL NOTES

- EXISTING CONDITIONS PRESENTED ARE BASED ON A TOPOGRAPHIC SURVEY PROVIDED BY KEITH & SCHNARS, P.A. PROJECT NO. 000000. DATE OF SURVEY 00/02/2015. ADDITIONAL INFORMATION WAS OBTAINED FROM AS-BUILTS AND RECORD DRAWINGS PROVIDED BY UTILITY COMPANIES, G.I.S. INFORMATION AND FIELD VISITS.
- ELEVATIONS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929. ELEVATIONS ARE BASED ON PALM BEACH COUNTY BENCHMARK "E 548" ELEVATION=15.575' AND PALM BEACH COUNTY BENCHMARK "REYNOLDS" ELEVATION=11.116'.
- CONTRACTOR IS TO PROTECT ALL EXISTING TREES, SIGNS, AND ABOVE GROUND UTILITIES NOT IMPACTED BY THIS PLAN.
- CONTRACTOR IS TO REMOVE & REINSTALL MAILBOXES AND SIGNAGE DURING CONSTRUCTION.



Always call 811 two full business days before you dig to have underground utilities located and marked.



SEE DRAWING NO. EC-5



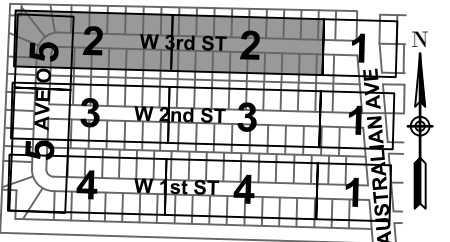
100% SUBMITTAL



500 Australian Avenue South
Suite 530
West Palm Beach, FL 33401
561.746.6900
www.chenmoore.com
CERTIFICATES OF AUTHORIZATION
EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE:

SUB-CONSULTANT



CLIENT



Public Works Department
2391 Avenue "I"
Riviera Beach, Florida 33404

PROJECT INFORMATION

**RIVIERA HEIGHTS
W 1 ST - W 3 ST
NEIGHBORHOOD
IMPROVEMENTS**

CITY OF RIVIERA
BEACH, FLORIDA

PROJECT NUMBER
26-0221.00036

RIVIERA BCH PROJECT NO
608-16

VERIFY SCALES
0" = 1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
02/20/2026

DESIGNED BY
MW

DRAWN BY
TN

CHECKED BY
SD

DRAWING TITLE
**EXISTING
CONDITIONS AND
DEMOLITION PLAN**

DRAWING NUMBER
EC-2
06 OF 42



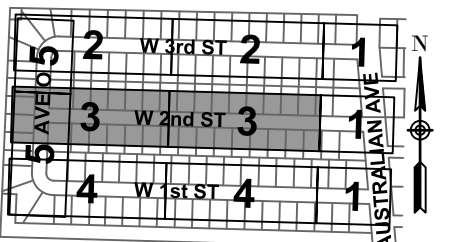
SEE DRAWING NO. EC-5



Always call 811 two full business days before you dig to have underground utilities located and marked.



SUB-CONSULTANT



CLIENT



Public Works Department
2391 Avenue 11
Riviera Beach, Florida 33404

PROJECT INFORMATION

**RIVIERA HEIGHTS
W 1 ST - W 3 ST
NEIGHBORHOOD
IMPROVEMENTS**

CITY OF RIVIERA
BEACH, FLORIDA

PROJECT NUMBER
26-0221.00036

RIVIERA BCH PROJECT NO
608-16

VERIFY SCALES
0" = 1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
02/20/2026

DESIGNED BY
MW

DRAWN BY
TN

CHECKED BY
SD

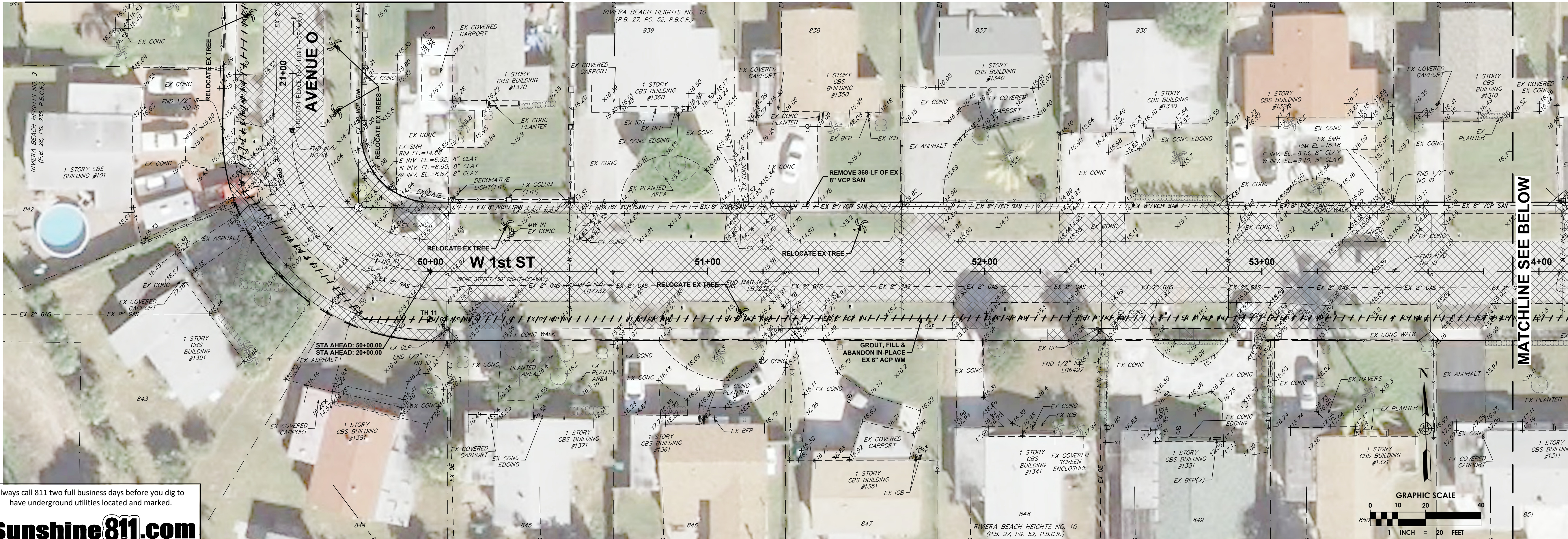
DRAWING TITLE

**EXISTING
CONDITIONS AND
DEMOLITION PLAN**

DRAWING NUMBER
EC-3
07 OF 42

100% SUBMITTAL

SEE DRAWING NO. EC-5



Always call 811 two full business days before you dig to have underground utilities located and marked.



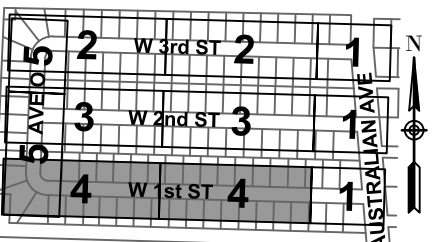
100% SUBMITTAL



500 Australian Avenue South
Suite 530
West Palm Beach, FL 33401
561.746.6900
www.chenmoore.com
CERTIFICATES OF AUTHORIZATION
EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE:

SUB-CONSULTANT



CLIENT



Public Works Department
2391 Avenue "L"
Riviera Beach, Florida 33404

PROJECT INFORMATION

**RIVIERA HEIGHTS
W 1 ST - W 3 ST
NEIGHBORHOOD
IMPROVEMENTS**

CITY OF RIVIERA
BEACH, FLORIDA

PROJECT NUMBER
26-0221.00036

RIVIERA BCH PROJECT NO
608-16

VERIFY SCALES
0" = 1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
02/20/2026

DESIGNED BY
MW

DRAWN BY
TN

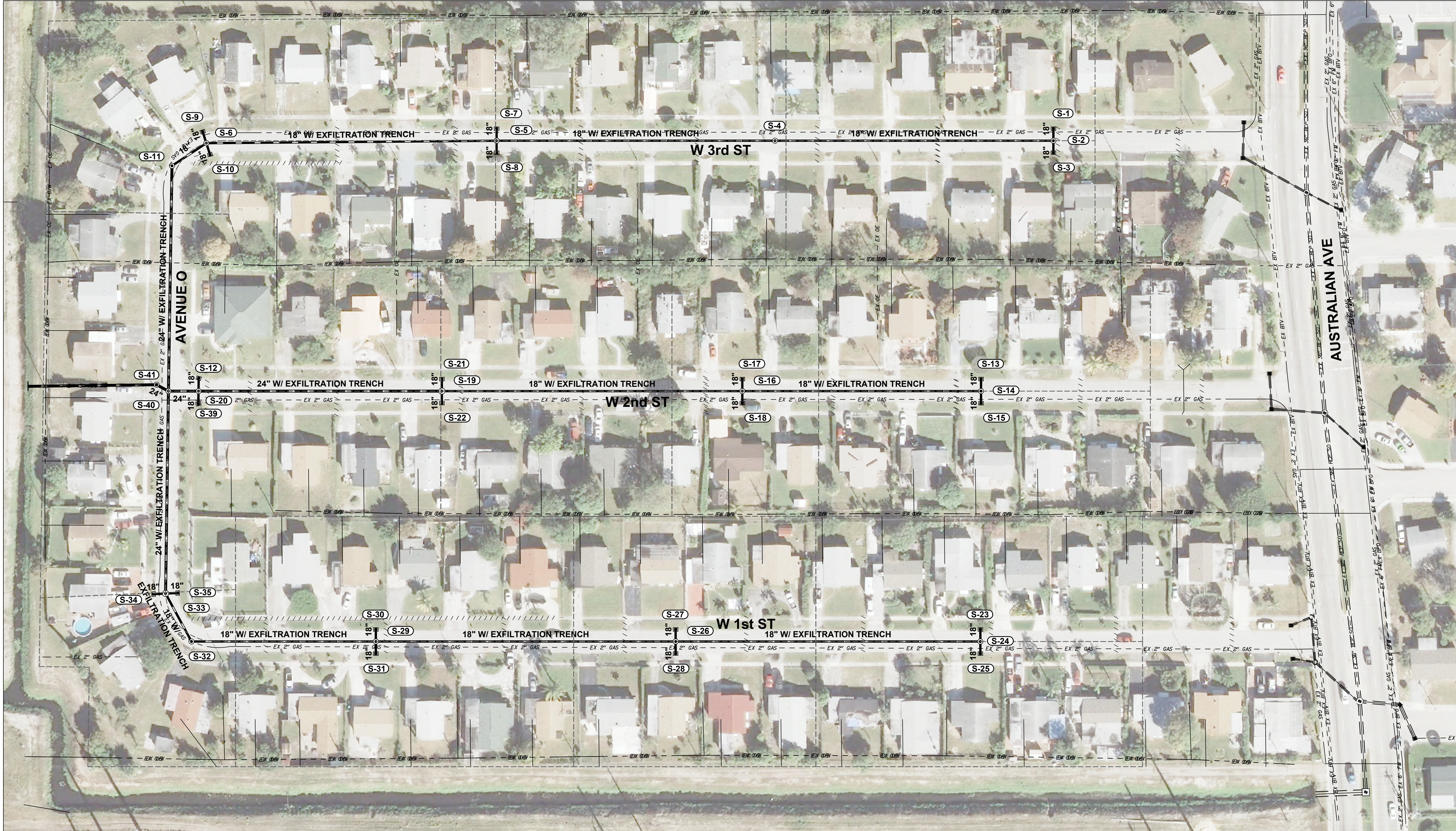
CHECKED BY
SD

DRAWING TITLE

**EXISTING
CONDITIONS AND
DEMOLITION PLAN**

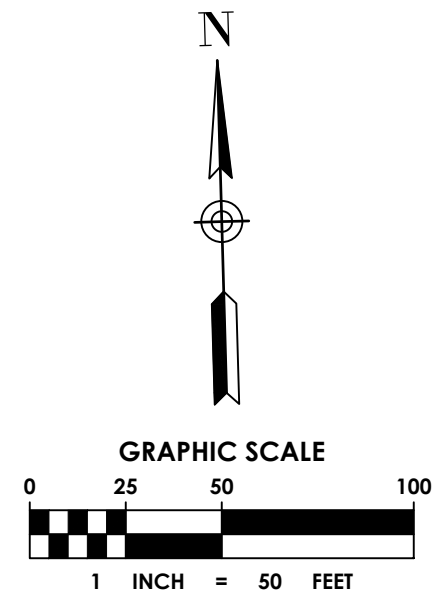
DRAWING NUMBER
EC-4
08 OF 42

Plot Date: 3/10/2026 10:39:28 AM Username: nwasiko Layout Name: DMP-1
Folder Path: V:\Projects\2026\26-0221.00036 - w 1st street - w 3rd street plan updates\Design\CAD\Sheets Filename: 15-221.001-RivHgtss-10 Drainage Map.dwg



LEGEND

- | | |
|--|-------------------------------|
| | PROPOSED STRUCTURE TAG |
| | PROPOSED STORM DRAIN PIPE |
| | PROPOSED CATCH BASIN OR INLET |
| | PROPOSED STORM MANHOLE |
| | PROPOSED SURFACE FLOW ARROW |
| | PROPOSED CATCHMENT AREA |
| | EXISTING STORM DRAIN PIPE |
| | EXISTING CATCH BASIN OR INLET |
| | EXISTING STORM MANHOLE |

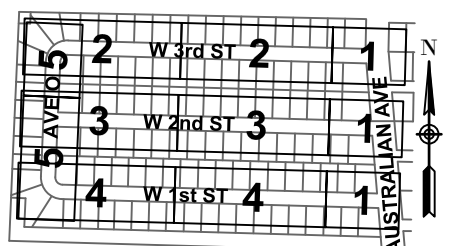


100% SUBMITTAL

cma
chen moore and associates

500 Australian Avenue South
Suite 530
West Palm Beach, FL 33401
561.746.6900
www.chenmoore.com
CERTIFICATES OF AUTHORIZATION
EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE: _____



CLIENT



Public Works Department
2391 Avenue "I"
Riviera Beach, Florida 33404

PROJECT INFORMATION

**RIVIERA HEIGHTS
W 1 ST - W 3 ST
NEIGHBORHOOD
IMPROVEMENTS**

CITY OF RIVIERA
BEACH, FLORIDA

PROJECT NUMBER
26-0221.00036

RIVIERA BCH PROJECT NO
608-16

VERIFY SCALES
0" = 1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
02/20/2026

DESIGNED BY
MW

DRAWN BY
TN

CHECKED BY
SD

DRAWING TITLE

DRAINAGE MAP

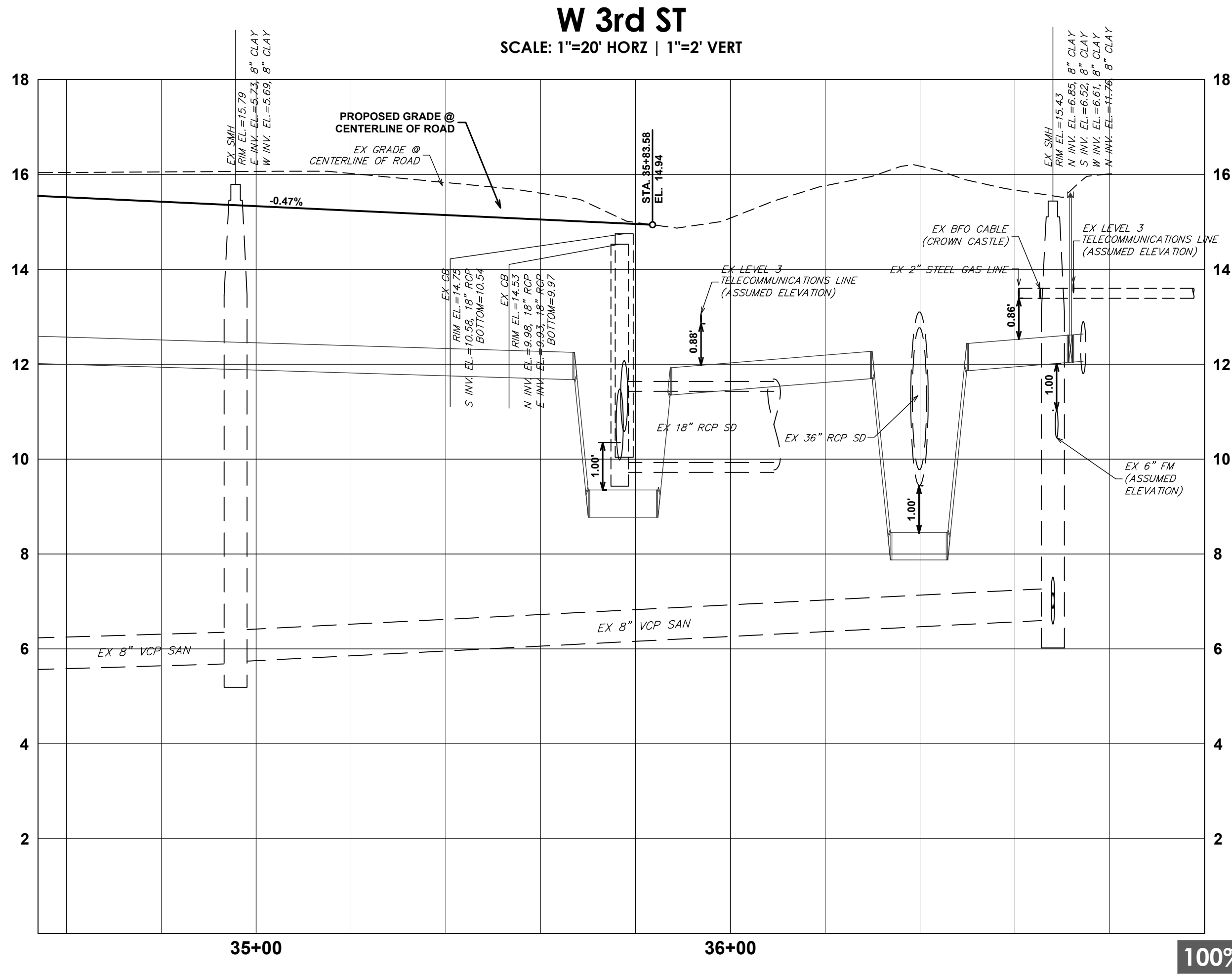
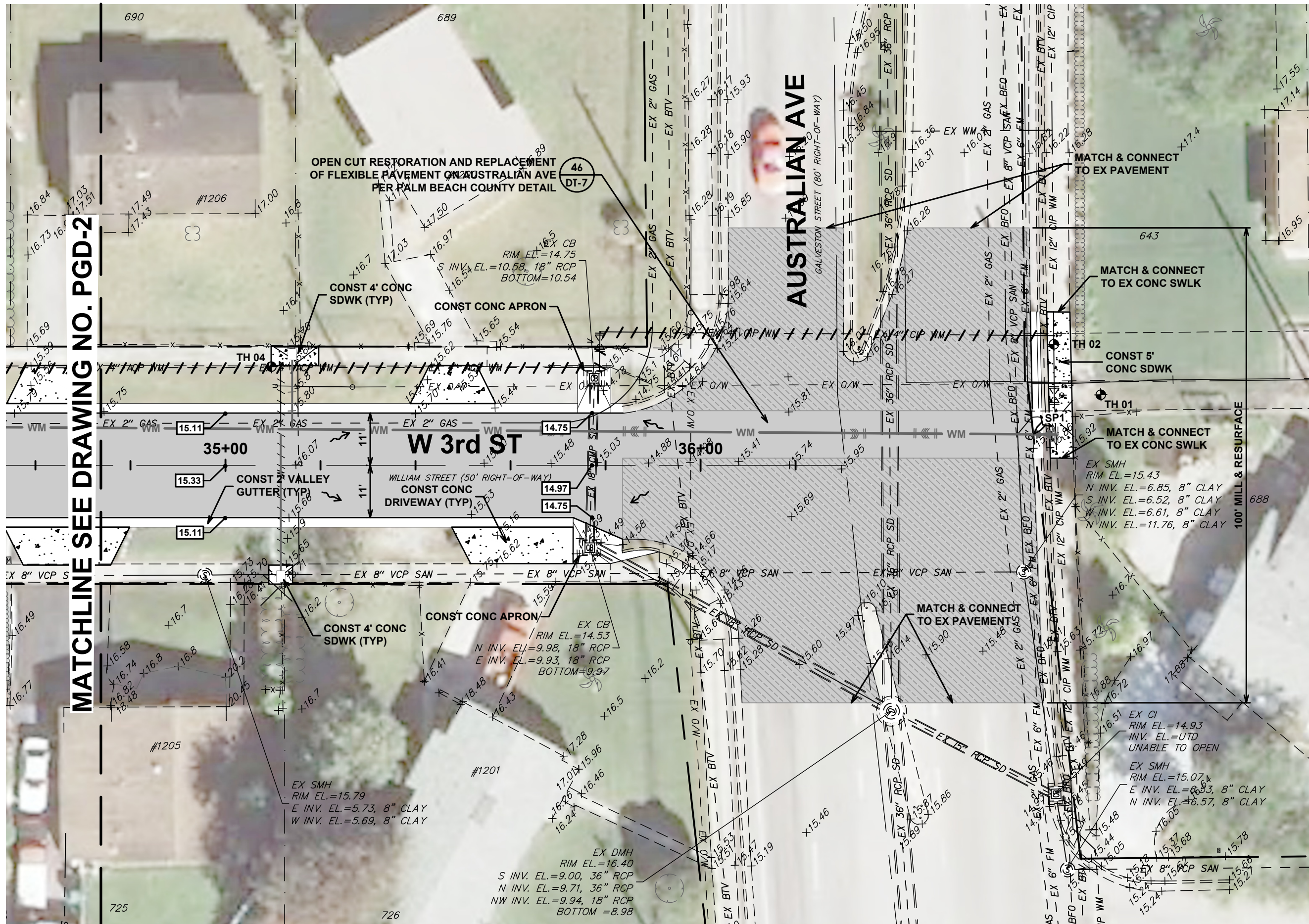
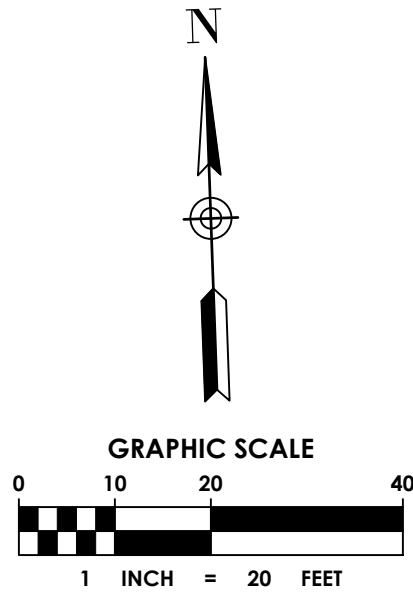
DRAWING NUMBER
DMP-1
10 OF 42

Always call 811 two full business days before you dig to have underground utilities located and marked.



LEGEND

- | | |
|--|--|
| | PLAT LINE |
| | RIGHT-OF-WAY LINE |
| | LOT LINE |
| | CENTER LINE |
| | EASEMENT LINE |
| | EXISTING STORM DRAIN PIPE |
| | EXISTING WATER MAIN PIPE |
| | EXISTING WATER SERVICE LATERAL |
| | EXISTING SANITARY SEWER PIPE |
| | EXISTING SEWER SERVICE LATERAL |
| | EXISTING ELEVATION |
| | EXISTING FENCE |
| | EXISTING FIRE HYDRANT |
| | EXISTING GATE VALVE |
| | EXISTING WATER METER |
| | EXISTING CATCH BASIN |
| | EXISTING GUYWIRE ANCHOR |
| | EXISTING TREE |
| | EXISTING PINE TREE |
| | EXISTING PALM TREE |
| | EXISTING SPOTLIGHT AND/OR FLOODLIGHT |
| | EXISTING SIGN |
| | EXISTING SHRUB/HEDGE |
| | EXISTING STORM MANHOLE |
| | PROPOSED STORM DRAIN PIPE |
| | PROPOSED STORM DRAIN PIPE WITH EXFILTRATION TRENCH |
| | PROPOSED CATCH BASIN OR INLET |
| | PROPOSED STORM MANHOLE |
| | PROPOSED ELEVATION |
| | PROPOSED SURFACE FLOW ARROW |
| | PROPOSED ASPHALT |
| | PROPOSED MILL & RESURFACE(1" TYPE S-III) |
| | PROPOSED CONCRETE |
| | TEST HOLE |



100% SUBMITTAL

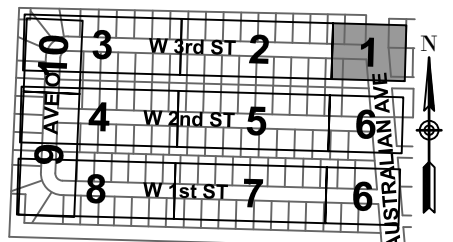


500 Australian Avenue South
Suite 530
West Palm Beach, FL 33401
561.746.6900

www.chenmoore.com
CERTIFICATES OF AUTHORIZATION
EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE: _____

SUB-CONSULTANT



CLIENT



Public Works Department
2391 Avenue "I"
Riviera Beach, Florida 33404

PROJECT INFORMATION

RIVIERA HEIGHTS
W 1 ST - W 3 ST
NEIGHBORHOOD
IMPROVEMENTS

CITY OF RIVIERA
BEACH, FLORIDA

PROJECT NUMBER
26-0221.00036

RIVIERA BCH PROJECT NO
608-16

VERIFY SCALES
0" = 1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
02/20/2026

DESIGNED BY
MW

DRAWN BY
TN

CHECKED BY
SD

DRAWING TITLE

PAVING GRADING
AND DRAINAGE
PLAN AND PROFILE

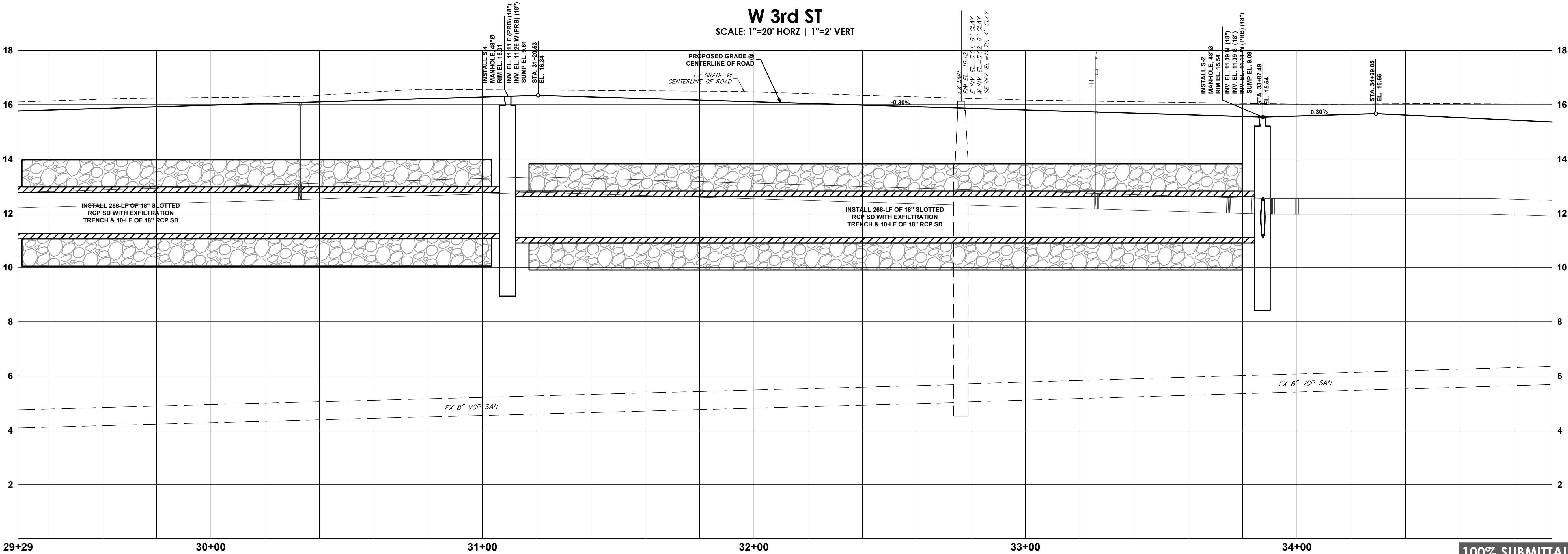
DRAWING NUMBER

PGD-1
11 OF 42

Always call 811 two full business days before you dig to have underground utilities located and marked.



W 3rd ST
SCALE: 1"=20' HORZ | 1"=2' VERT



100% SUBMITTAL

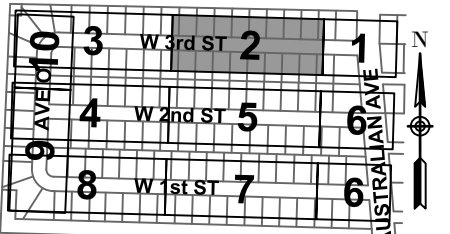


500 Australian Avenue South
Suite 530
West Palm Beach, FL 33401
561.746.6900

www.chenmoore.com
CERTIFICATES OF AUTHORIZATION
EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE: _____

SUB-CONSULTANT



CLIENT



Public Works Department
2391 Avenue "I"
Riviera Beach, Florida 33404

PROJECT INFORMATION

RIVIERA HEIGHTS
W 1 ST - W 3 ST
NEIGHBORHOOD
IMPROVEMENTS

CITY OF RIVIERA
BEACH, FLORIDA

PROJECT NUMBER
26-0221.00036

RIVIERA BCH PROJECT NO
608-16

VERITY SCALES
0"=1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
02/20/2026

DESIGNED BY
MW

DRAWN BY
TN

CHECKED BY
SD

DRAWING TITLE

PAVING GRADING
AND DRAINAGE
PLAN AND PROFILE

DRAWING NUMBER

PGD-2
12 OF 42

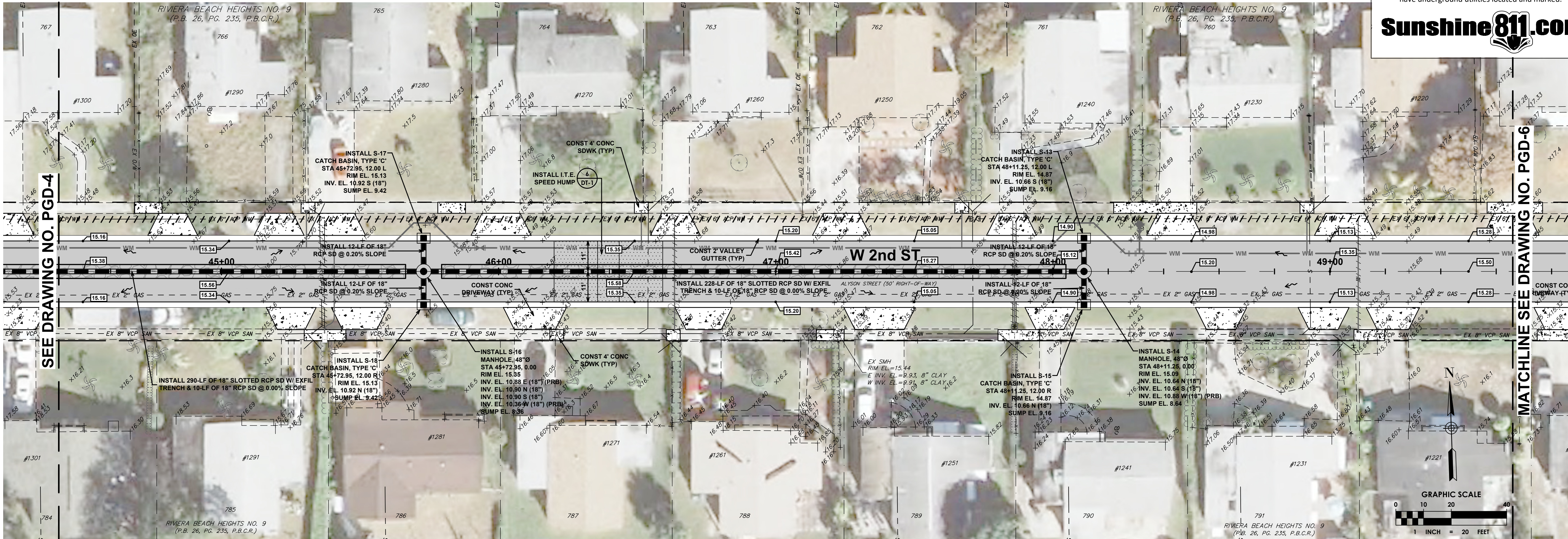
Sunshine811.com



Plot Date: 3/10/2026 10:40:16 AM Username: nwasko Layout Name: PGD-3

DRAWING NUMBER
PGD-3
13 OF 42

Plot Date: 3/10/2026 10:40:35 AM Username: nwasko Layout Name: PGD-5 Filename: 15-221.001-RivHghts-10 Proposed Paving Grading and Drainage Plan.dwg Folder Path: V:\Projects\2026\26-0221.00036 - w 1st street - w 3rd street plan updates\Design\CAD\Sheets



Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com

cma
chen moore and associates

500 Australian Avenue South
Suite 530
West Palm Beach, FL 33401
561.746.6900
www.cchenmoore.com

CERTIFICATES OF AUTHORIZATION
EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE: _____

SUB-CONSULTANT

CLIENT

Public Works Department
2391 Avenue "I"
Riviera Beach, Florida 33404

PROJECT INFORMATION

**RIVIERA HEIGHTS
W 1 ST - W 3 ST
NEIGHBORHOOD
IMPROVEMENTS**

CITY OF RIVIERA
BEACH, FLORIDA

PROJECT NUMBER
26-0221.00036

RIVIERA BCH PROJECT NO
608-16

VERIFY SCALES
0" = 1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

NO.	DESCRIPTION	DATE
-----	-------------	------

DATE OF ISSUE
02/20/2026

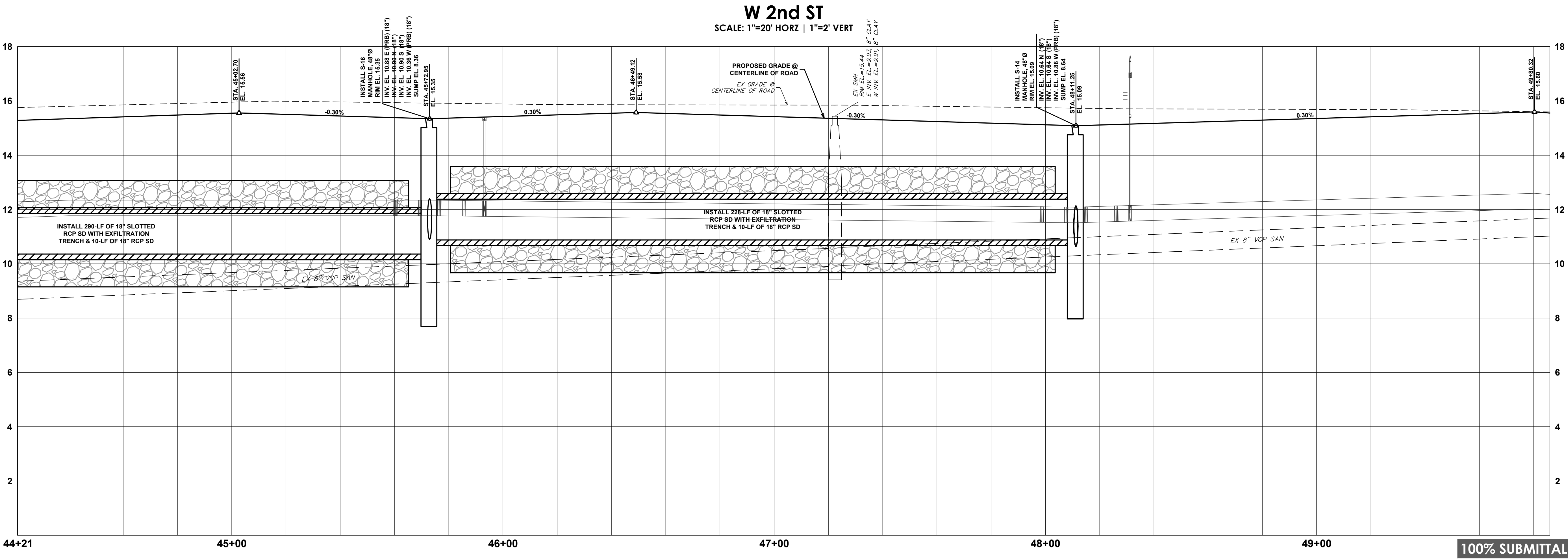
DESIGNED BY
MW

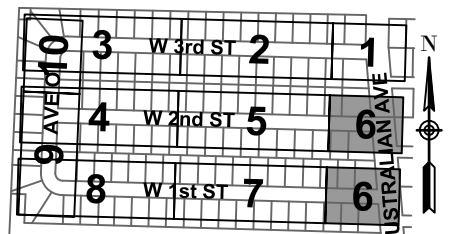
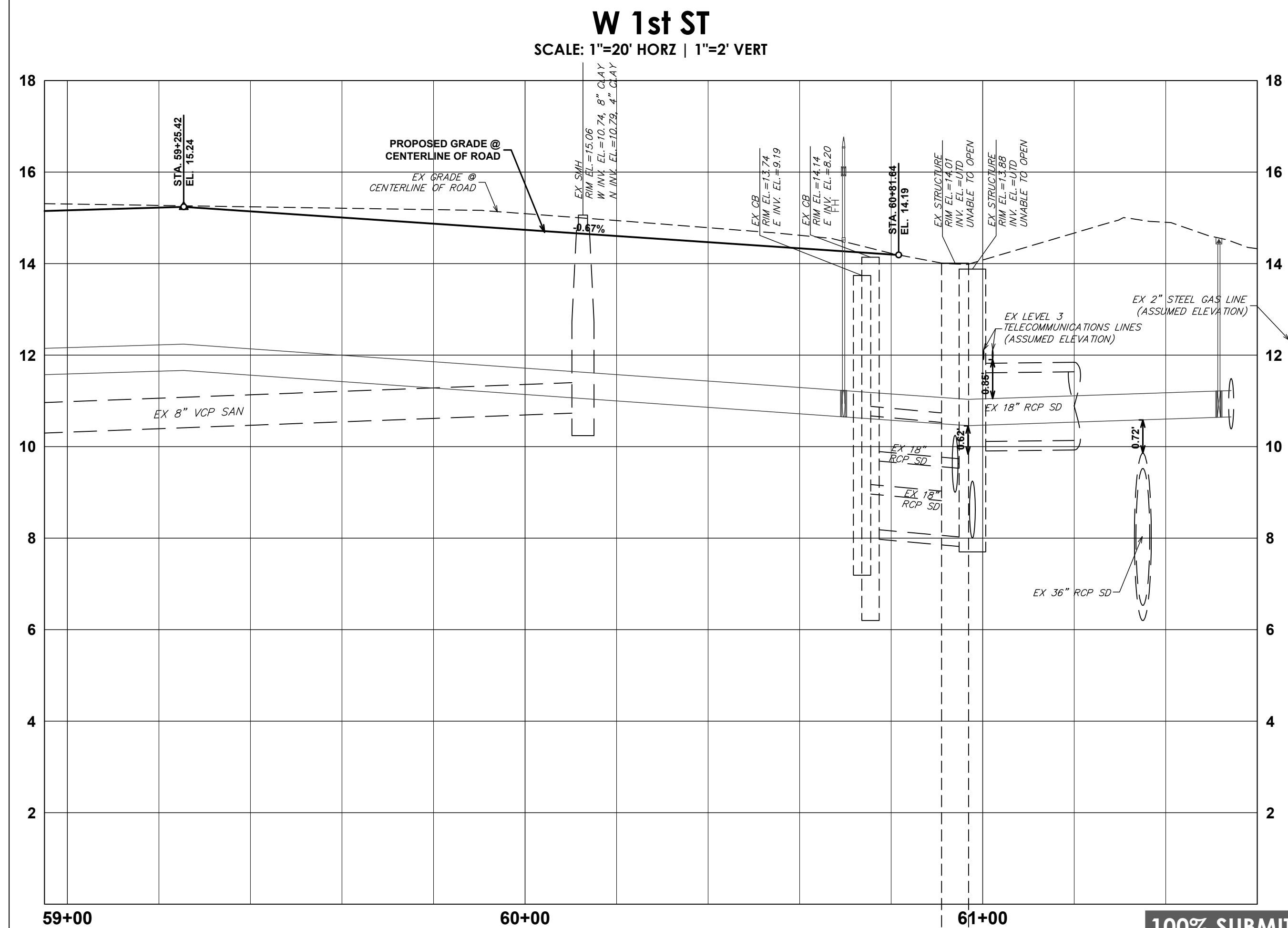
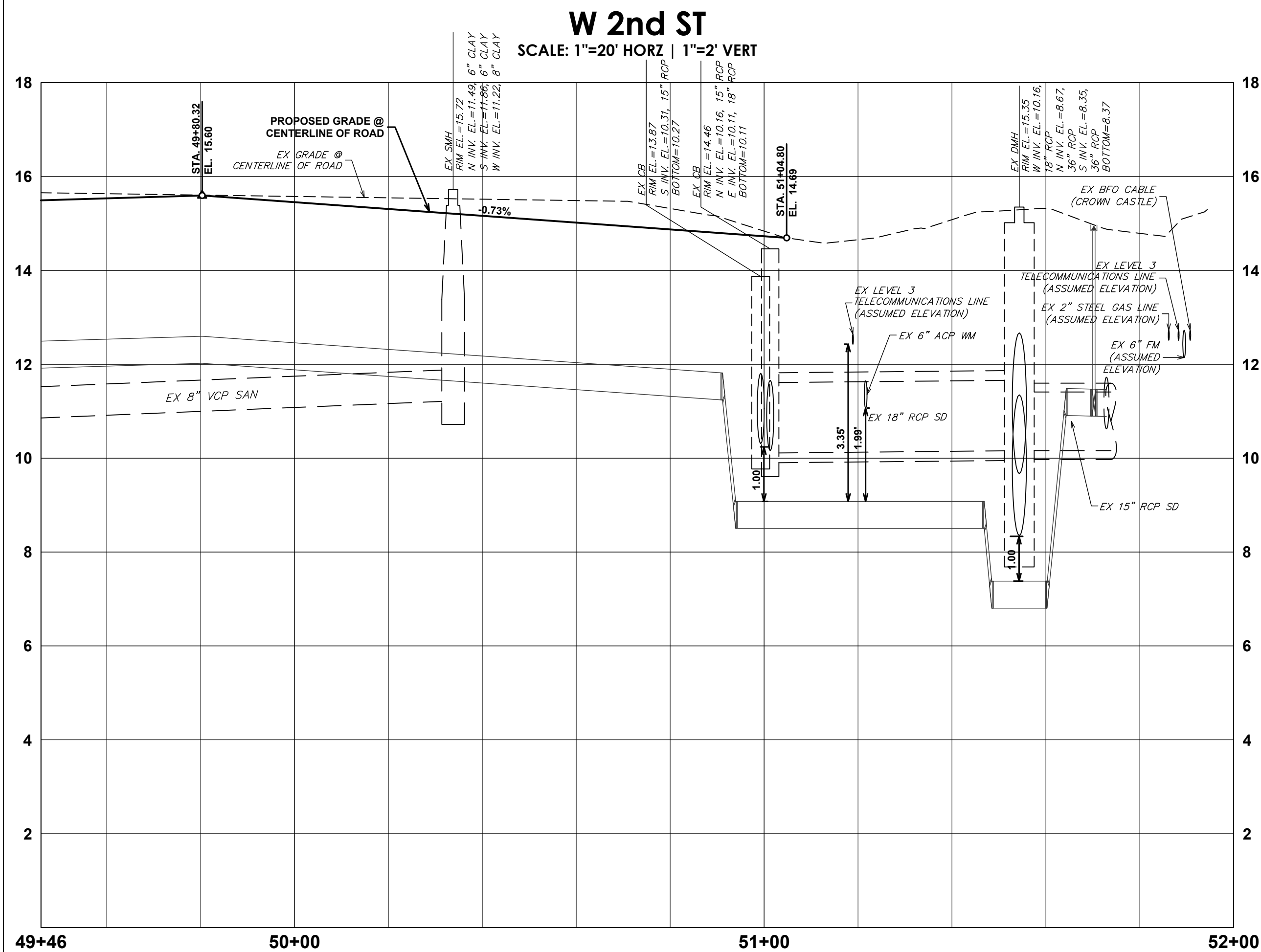
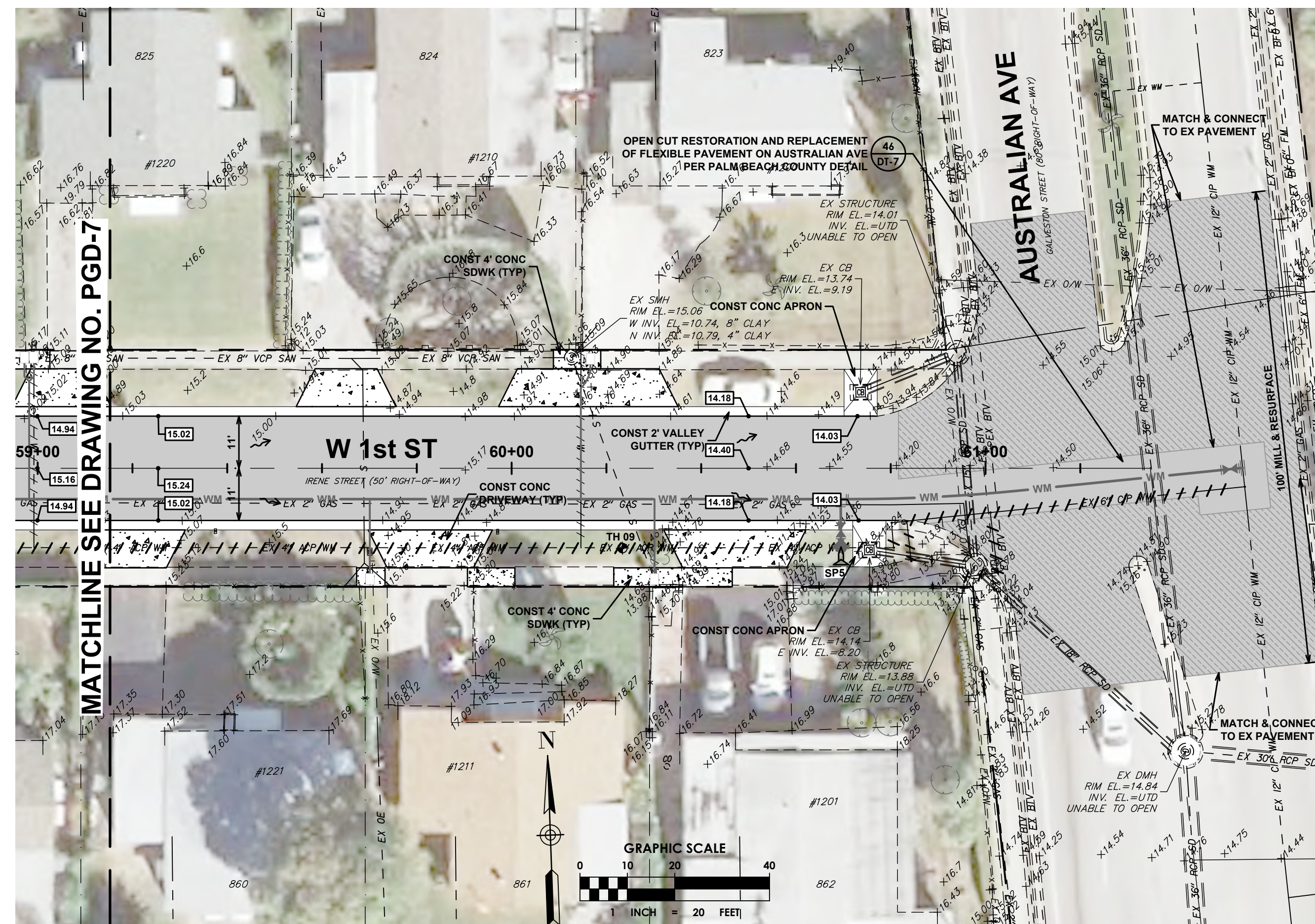
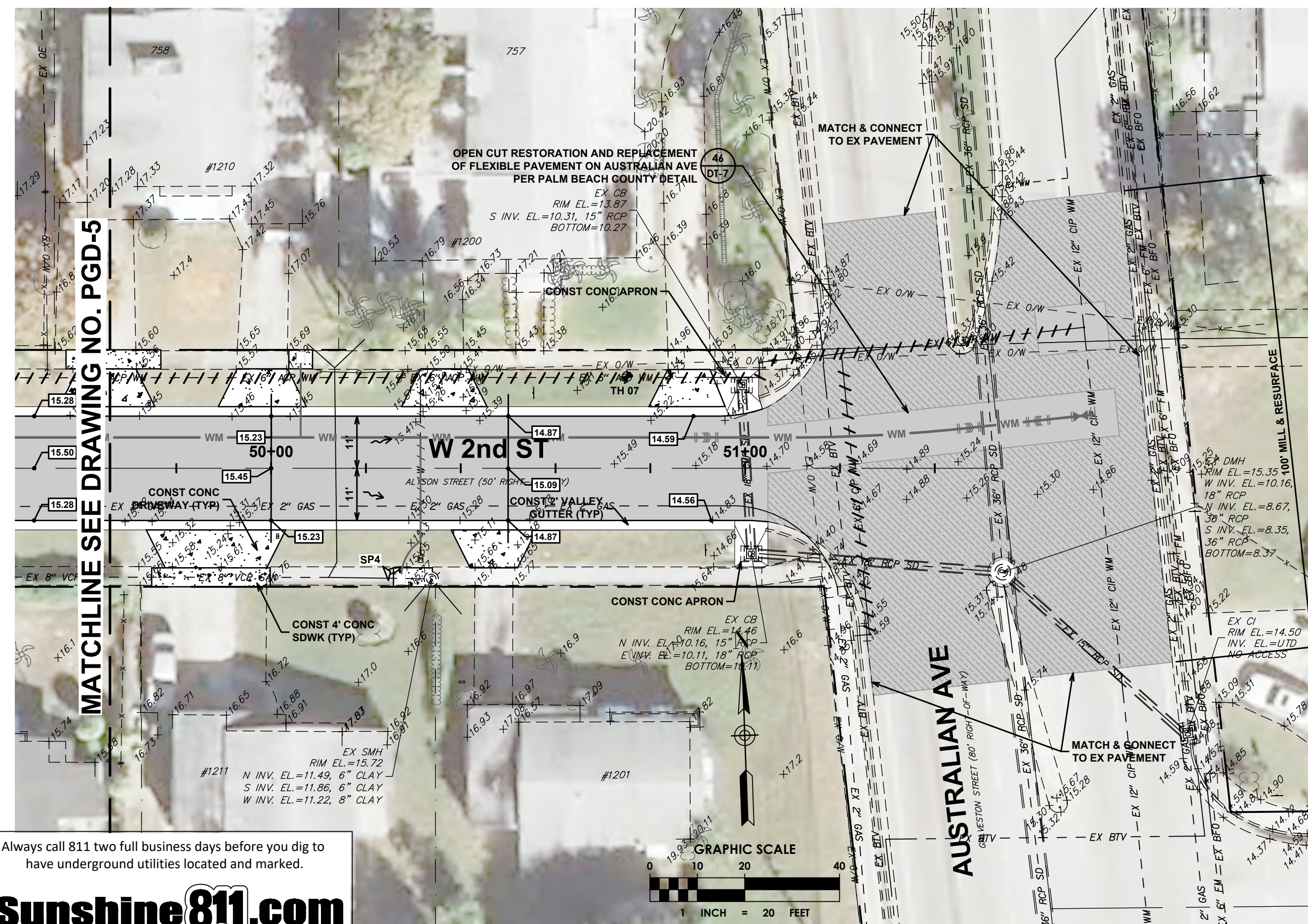
DRAWN BY
TN

CHECKED BY
SD

DRAWING TITLE
**PAVING GRADING
AND DRAINAGE
PLAN AND PROFILE**

DRAWING NUMBER
PGD-5
15 OF 42



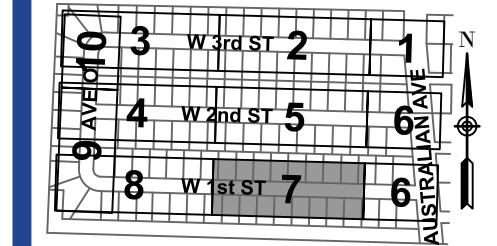
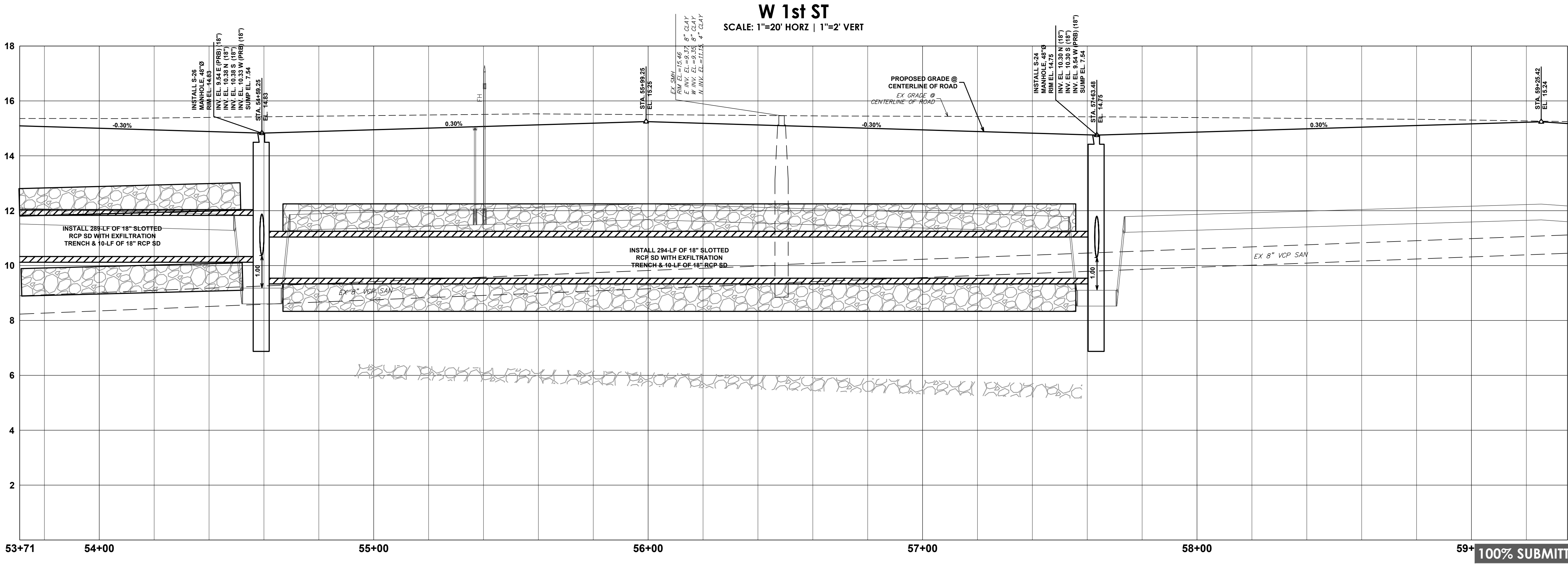


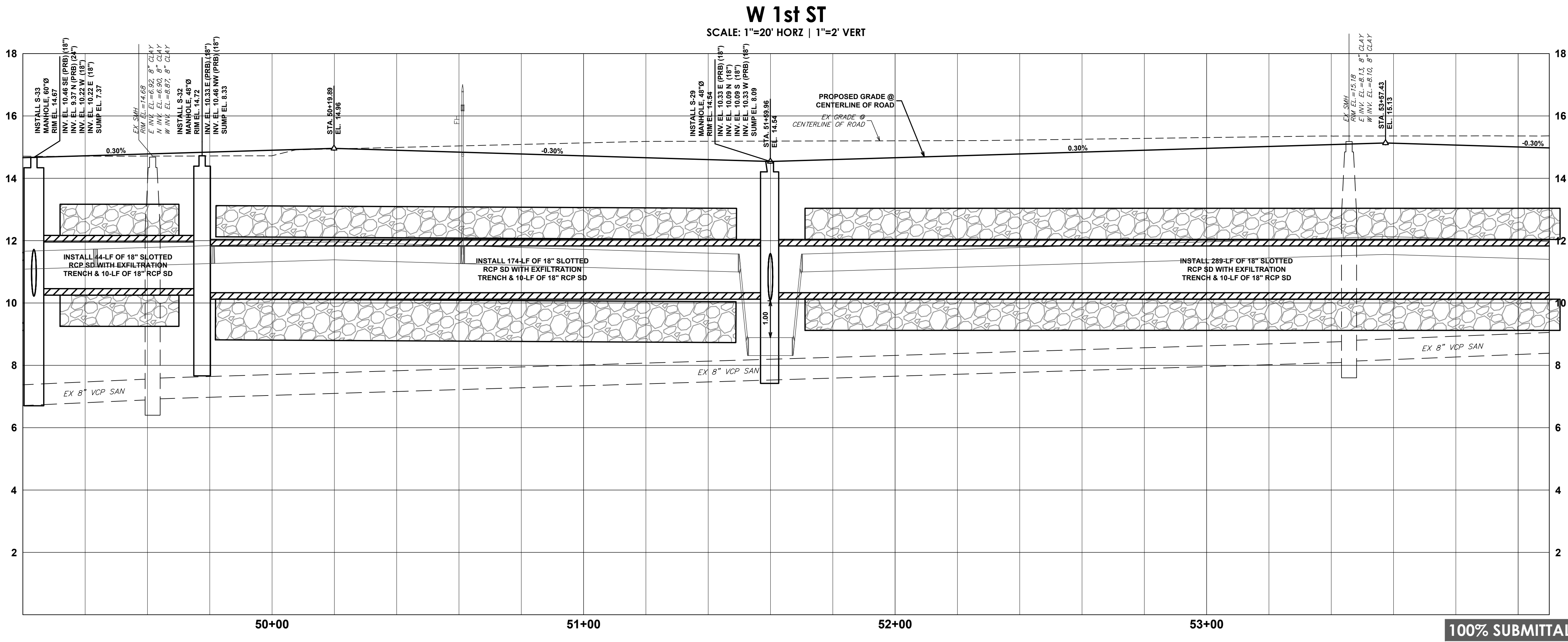
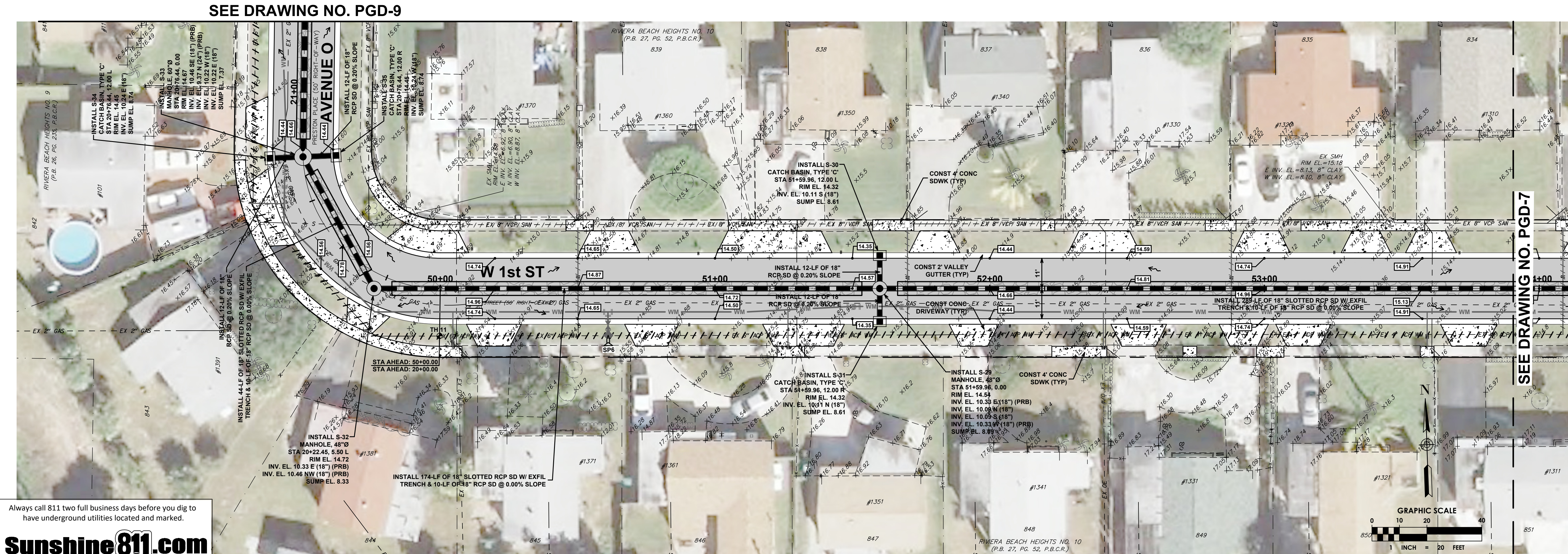
Plot Date: 3/10/2026 10:41:02 AM Username: nwasko Layout Name: PGD-7
Folder Path: V:\Projects\2026\26-0221.00036 - w 1st street - w 3rd street plan updates\Design\CAD\Sheets
Filename: 15-221.001-RivHtgs-10 Proposed Paving Grading and Drainage Plan.dwg



Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com





cma
chen moore and associates

500 Australian Avenue South
Suite 530
West Palm Beach, FL 33401
561.746.6900
www.chenmoore.com

CERTIFICATES OF AUTHORIZATION
EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE: _____

SUB-CONSULTANT

1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8

CLIENT

CITY OF RIVIERA BEACH
PALM BEACH COUNTY, FL

Public Works Department
2391 Avenue "L"
Riviera Beach, Florida 33404

PROJECT INFORMATION

**RIVIERA HEIGHTS
W 1 ST - W 3 ST
NEIGHBORHOOD
IMPROVEMENTS**

CITY OF RIVIERA
BEACH, FLORIDA

PROJECT NUMBER
26-0221.00036

RIVIERA BCH PROJECT NO
608-16

VERIFY SCALES
0"=1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

NO.	DESCRIPTION	DATE
-----	-------------	------

DATE OF ISSUE
02/20/2026

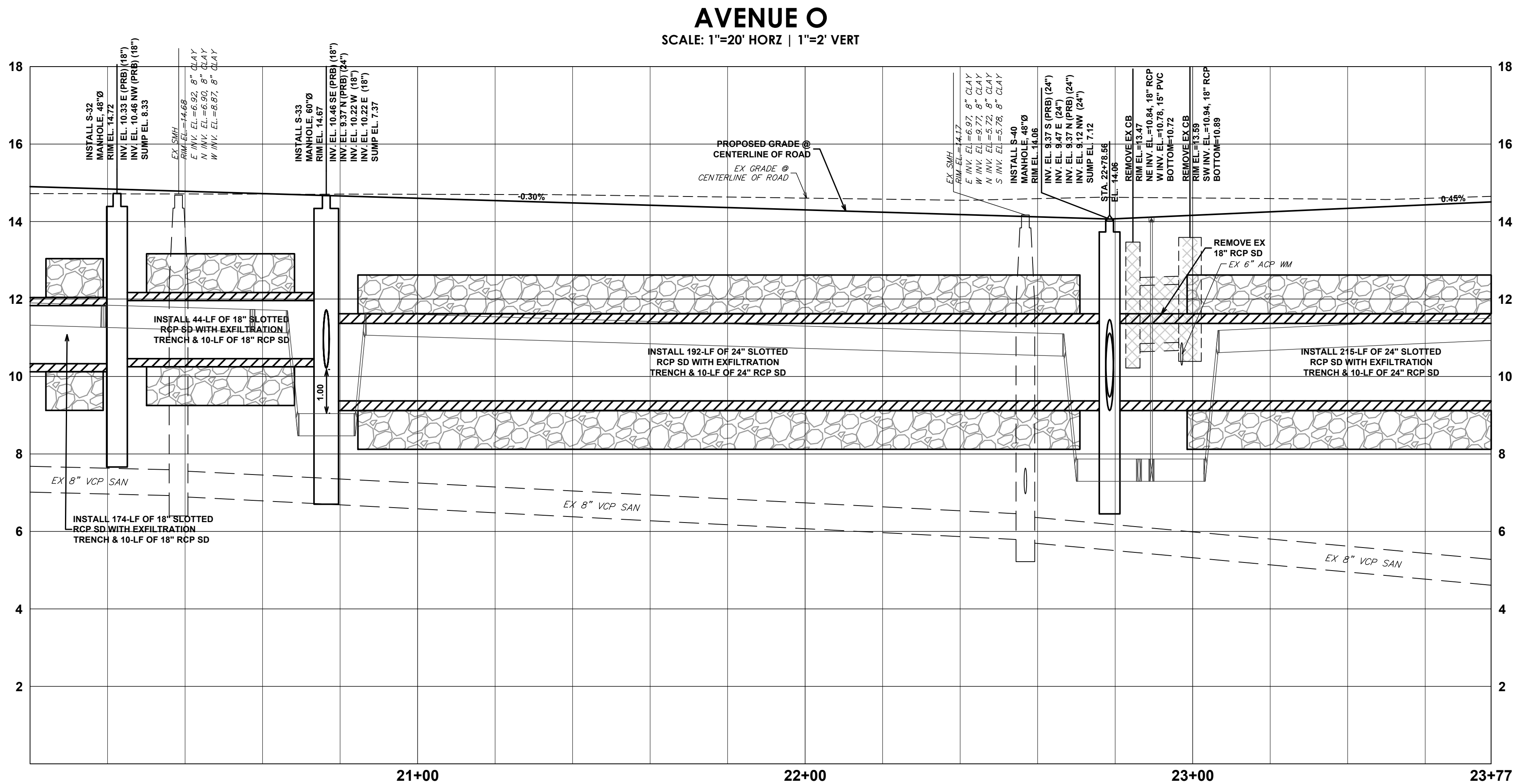
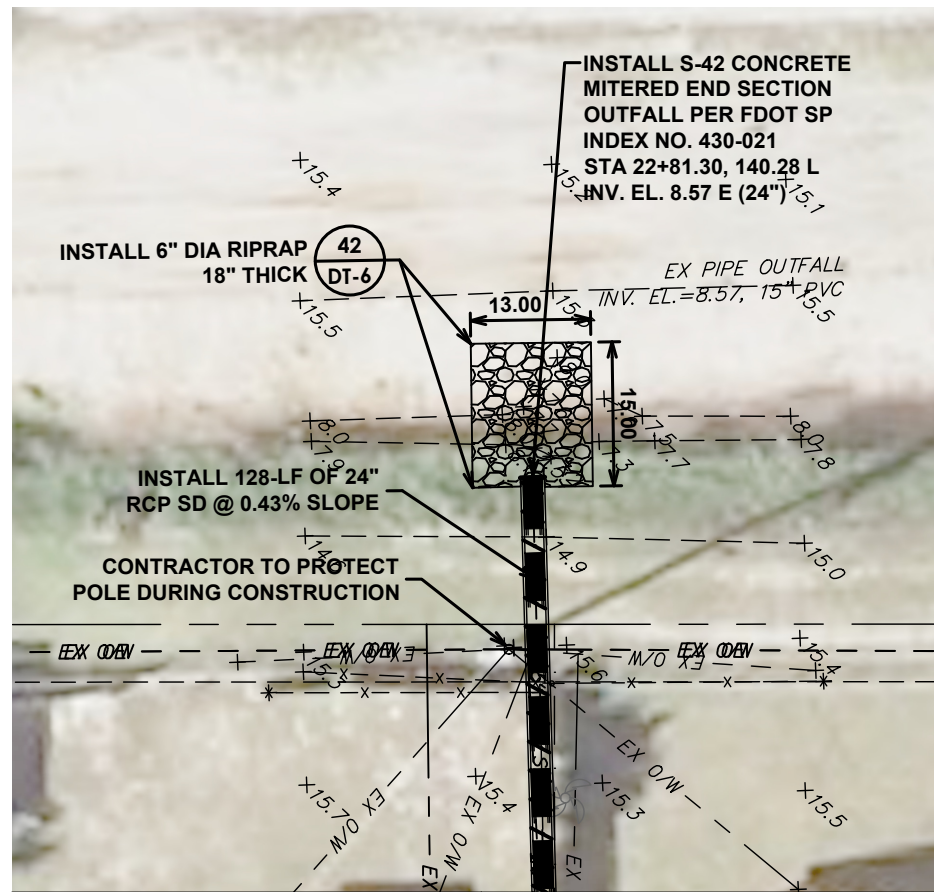
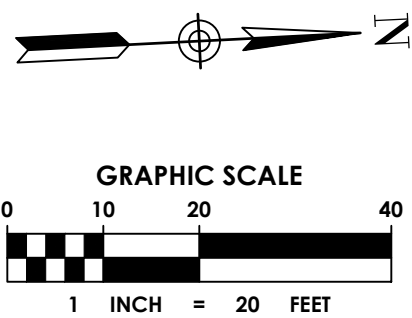
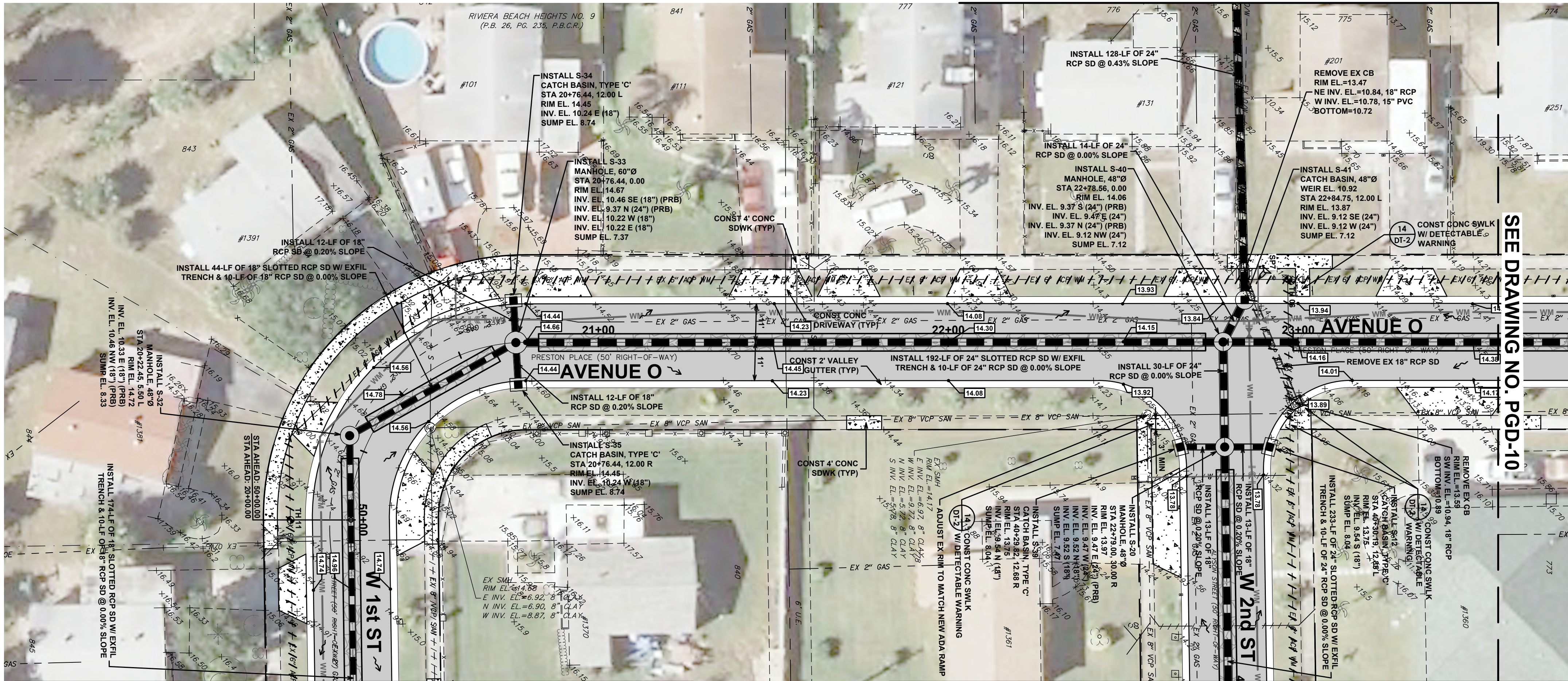
DESIGNED BY
MW

DRAWN BY
TN

CHECKED BY
SD

DRAWING TITLE
**PAVING GRADING
AND DRAINAGE
PLAN AND PROFILE**

DRAWING NUMBER
PGD-8
18 OF 42



LEGEND

- PLAT LINE
- RIGHT-OF-WAY LINE
- LOT LINE
- CENTER LINE
- EASEMENT LINE
- EX SD
- EX WM
- W
- EX SAN
- S
- EXISTING ELEVATION
- EXISTING FENCE
- EXISTING FIRE HYDRANT
- EXISTING GATE VALVE
- EXISTING WATER METER
- EXISTING CATCH BASIN
- EXISTING GUYMRE ANCHOR
- EXISTING TREE
- EXISTING PINE TREE
- EXISTING PALM TREE
- EXISTING SPOTLIGHT AND/OR FLOODLIGHT
- EXISTING SIGN
- EXISTING SHRUB/HEDGE
- EXISTING STORM MANHOLE
- PROPOSED STORM DRAIN PIPE
- PROPOSED STORM DRAIN PIPE WITH EXFILTRATION TRENCH
- PROPOSED CATCH BASIN OR INLET
- PROPOSED STORM MANHOLE
- PROPOSED ELEVATION
- PROPOSED SURFACE FLOW ARROW
- PROPOSED ASPHALT
- PROPOSED MILL & RESURFACE(1" TYPE S-III)
- PROPOSED CONCRETE
- TEST HOLE

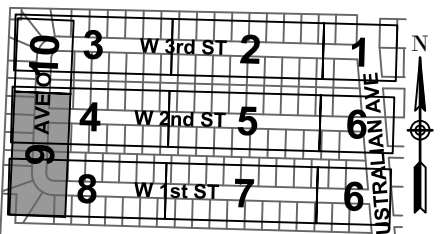
Always call 811 two full business days before you dig to have underground utilities located and marked.



500 Australian Avenue South
Suite 530
West Palm Beach, FL 33401
561.746.6900
www.chenmoore.com
CERTIFICATES OF AUTHORIZATION
EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE:

SUB-CONSULTANT



CLIENT



Public Works Department
2391 Avenue "I"
Riviera Beach, Florida 33404

PROJECT INFORMATION

**RIVIERA HEIGHTS
W 1 ST - W 3 ST
NEIGHBORHOOD
IMPROVEMENTS**

CITY OF RIVIERA
BEACH, FLORIDA

PROJECT NUMBER
26-0221.00036

RIVIERA BCH PROJECT NO
608-16

VERIFY SCALES
0"=1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
02/20/2026

DESIGNED BY
MW

DRAWN BY
TN

CHECKED BY
SD

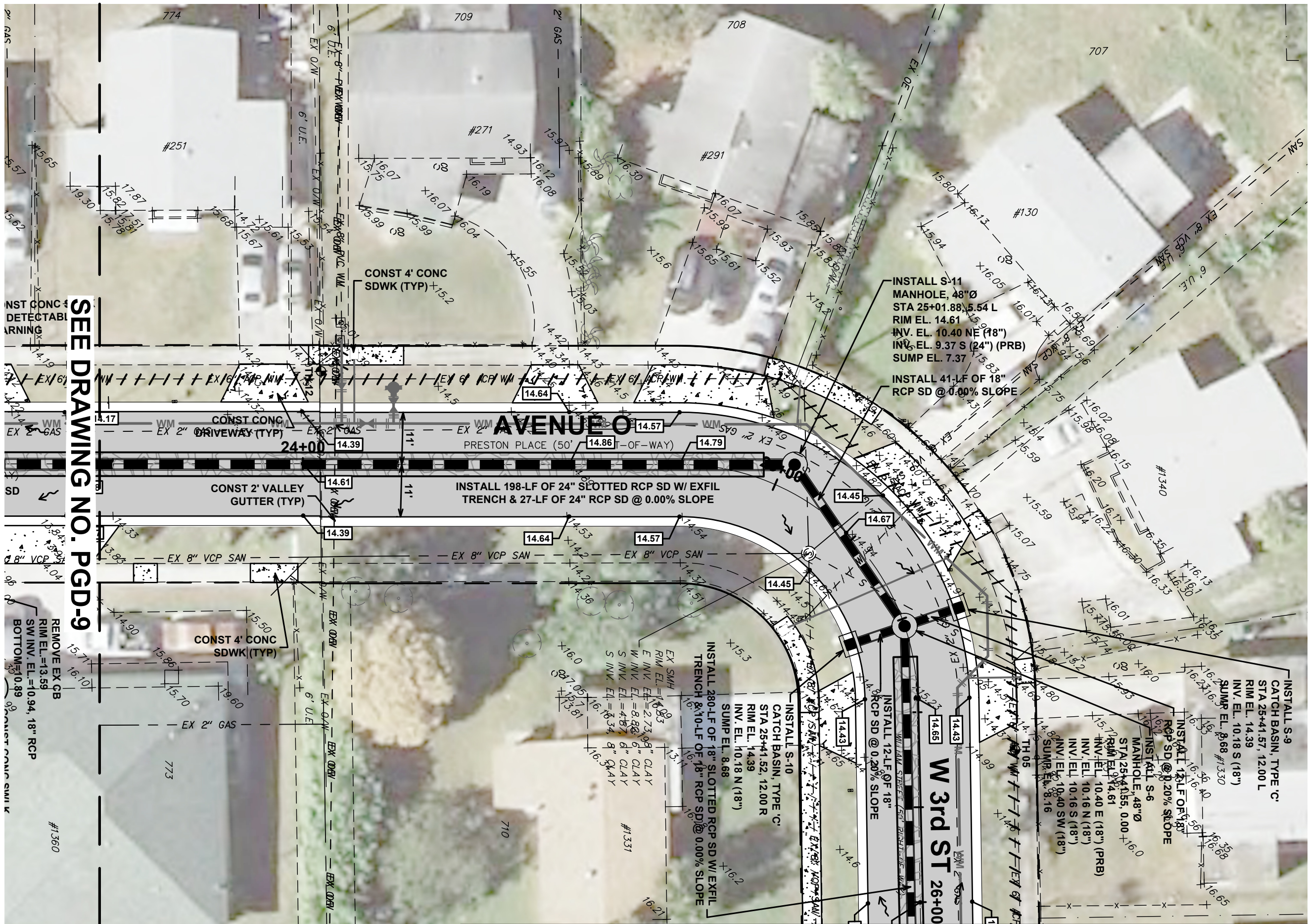
DRAWING TITLE

**PAVING GRADING
AND DRAINAGE
PLAN AND PROFILE**

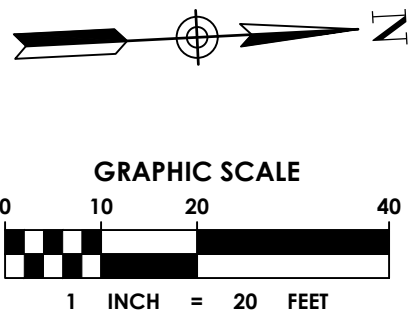
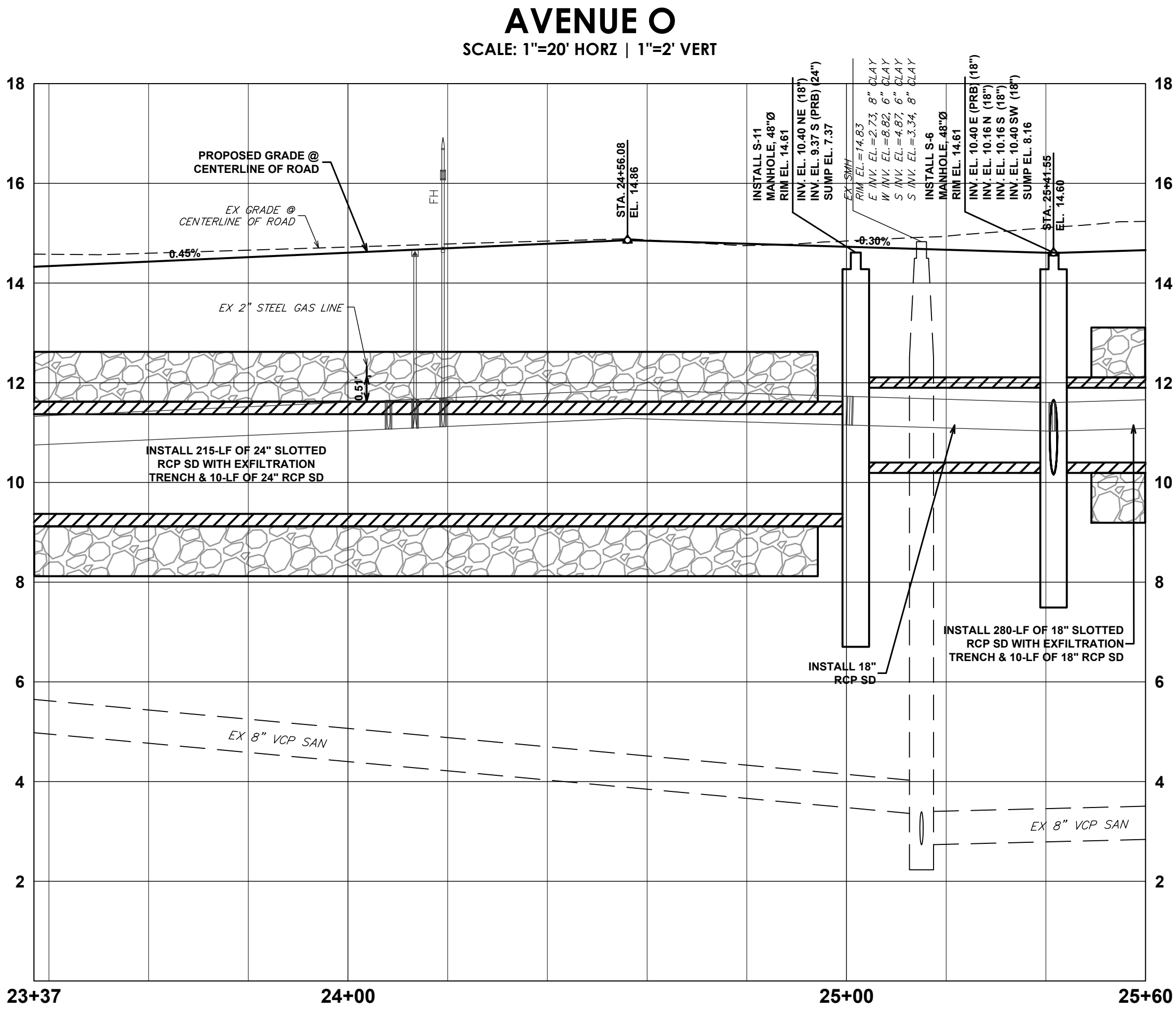
DRAWING NUMBER

PGD-9
19 OF 42

100% SUBMITTAL



SEE DRAWING NO. PGD-3



LEGEND

_____	PLAT LINE
_____	RIGHT-OF-WAY LINE
_____	LOT LINE
_____	CENTER LINE
_____	EASEMENT LINE
--- EX SD ---	EXISTING STORM DRAIN PIPE
--- EX WM ---	EXISTING WATER MAIN PIPE
--- W ---	EXISTING WATER SERVICE LATERAL
--- EX SAN ---	EXISTING SANITARY SEWER PIPE
--- S ---	EXISTING SEWER SERVICE LATERAL
+00.00 x-----x	EXISTING ELEVATION
⊠	EXISTING FENCE
⊠	EXISTING FIRE HYDRANT
⊠	EXISTING GATE VALVE
⊠	EXISTING WATER METER
⊠	EXISTING CATCH BASIN
⊠	EXISTING GUYWIRE ANCHOR
⊠	EXISTING TREE
⊠	EXISTING PINE TREE
⊠	EXISTING PALM TREE
⊠	EXISTING SPOTLIGHT AND/OR FLOODLIGHT
⊠	EXISTING SIGN
⊠	EXISTING SHRUB/HEDGE
⊠	EXISTING STORM MANHOLE
⊠	PROPOSED STORM DRAIN PIPE
⊠	PROPOSED STORM DRAIN PIPE WITH EXFILTRATION TRENCH
⊠	PROPOSED CATCH BASIN OR INLET
⊠	PROPOSED STORM MANHOLE
⊠	PROPOSED ELEVATION
⊠	PROPOSED SURFACE FLOW ARROW
⊠	PROPOSED ASPHALT
⊠	PROPOSED MILL & RESURFACE(1" TYPE S-II)
⊠	PROPOSED CONCRETE
⊠	TEST HOLE

Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com

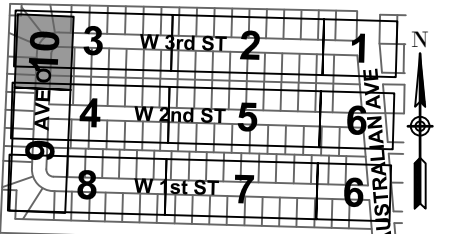
cma
chen moore and associates

500 Australian Avenue South
Suite 530
West Palm Beach, FL 33401
561.746.6900

www.chenmoore.com
CERTIFICATES OF AUTHORIZATION
EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE: _____

SUB-CONSULTANT



CLIENT



Public Works Department
2391 Avenue "I"
Riviera Beach, Florida 33404

PROJECT INFORMATION

**RIVIERA HEIGHTS
W 1 ST - W 3 ST
NEIGHBORHOOD
IMPROVEMENTS**

CITY OF RIVIERA
BEACH, FLORIDA

PROJECT NUMBER
26-0221.00036

RIVIERA BCH PROJECT NO
608-16

VERIFY SCALES
0" = 1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
02/20/2026

DESIGNED BY
MW

DRAWN BY
TN

CHECKED BY
SD

DRAWING TITLE

**PAVING GRADING
AND DRAINAGE
PLAN AND PROFILE**

DRAWING NUMBER

PGD-10
20 OF 42

100% SUBMITTAL

LEGEND

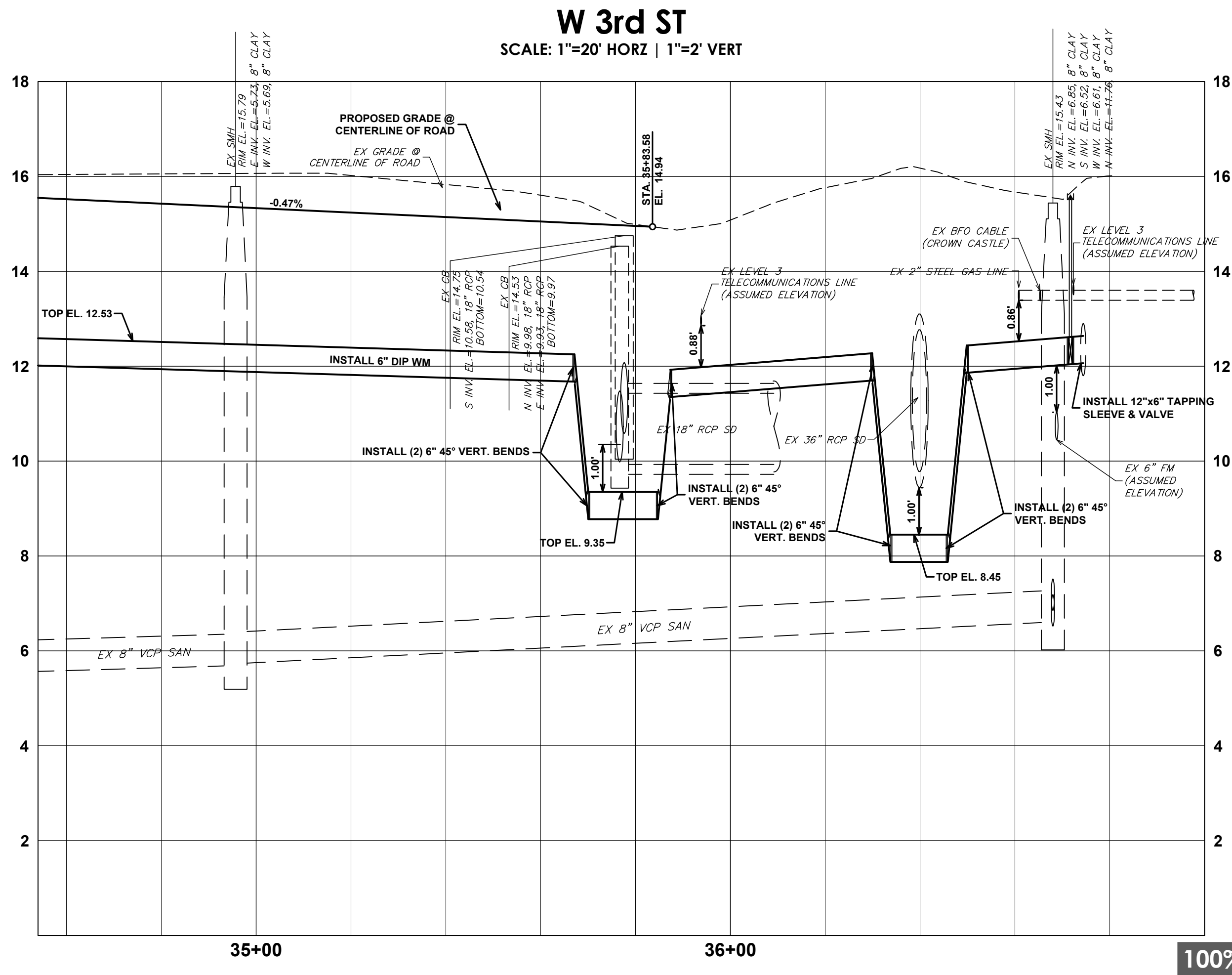
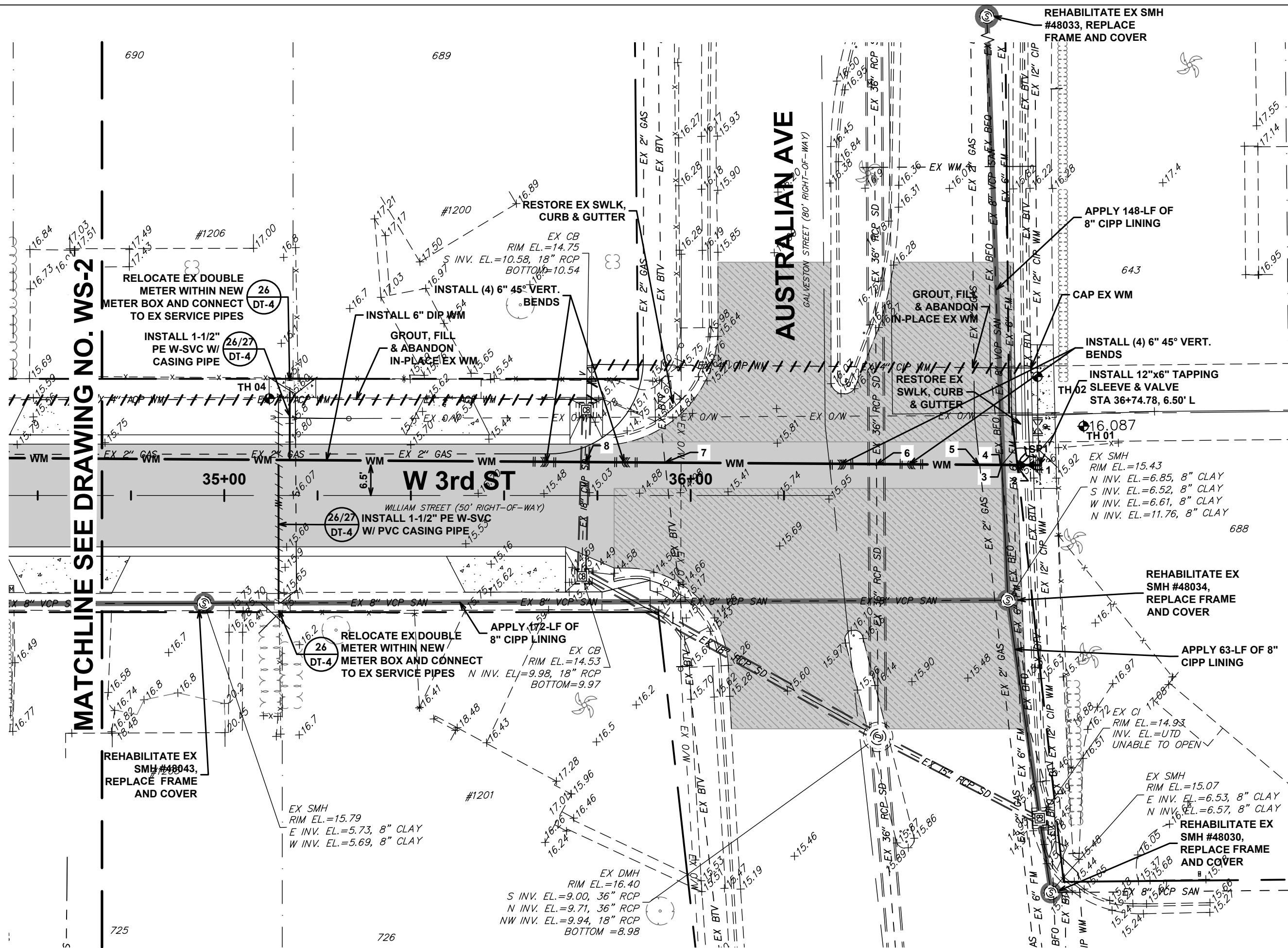
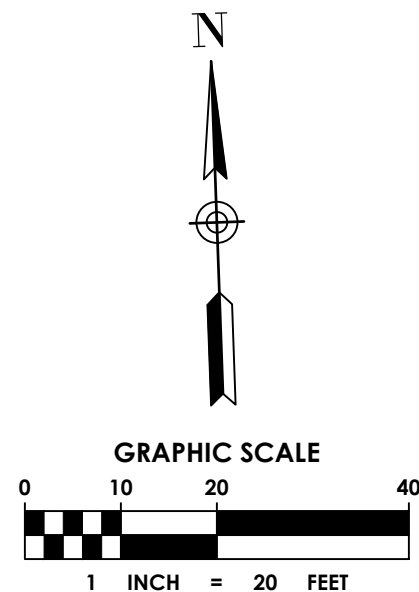
	PLAT LINE
	RIGHT-OF-WAY LINE
	LOT LINE
	CENTER LINE
	EASEMENT LINE
	EXISTING STORM DRAIN PIPE
	EXISTING WATER MAIN PIPE
	EXISTING WATER SERVICE LATERAL
	EXISTING SANITARY SEWER PIPE
	EXISTING SEWER SERVICE LATERAL
	EXISTING ELEVATION
	EXISTING FENCE
	EXISTING FIRE HYDRANT
	EXISTING GATE VALVE
	EXISTING WATER METER
	EXISTING CATCH BASIN
	EXISTING GUYWIRE ANCHOR
	EXISTING TREE
	EXISTING PINE TREE
	EXISTING PALM TREE
	EXISTING SPOTLIGHT AND/OR FLOODLIGHT
	EXISTING SIGN
	EXISTING SHRUB/HEDGE
	EXISTING STORM MANHOLE
	SAMPLE POINT
	PROPOSED WATER MAIN
	PROPOSED FLUSHING VALVE OUTLET OR BLOWOFF
	PROPOSED PLUG
	PROPOSED CAP
	PROPOSED FITTINGS
	PROPOSED FIRE HYDRANT
	PROPOSED REDUCER
	PROPOSED TAP SLEEVE AND VALVE
	PROPOSED GATE VALVE
	PROPOSED BUTTERFLY VALVE
	PROPOSED AIR RELEASE VALVE
	PROPOSED WATER METER
	PROPOSED SERVICE LATERAL
	PROPOSED STORM DRAIN PIPE
	PROPOSED STORM DRAIN PIPE WITH EXFILTRATION TRENCH
	PROPOSED CATCH BASIN OR INLET
	PROPOSED STORM MANHOLE
	TEST HOLE

Always call 811 two full business days before you dig to have underground utilities located and marked.



PIPE CROSSING TABLE

NO.	GROUND EL.	TOP PIPE	B.O.P. EL.	BOTTOM PIPE	T.O.P. EL.	CLEARANCE
1	15.80	BTV	13.51	WM	12.62	0.89
2	15.57	WM	12.02	6" FM	11.02	1.00
3	15.60	WM	12.03	8" SAN	7.88	4.15
4	15.60	BFO	13.38	WM	12.56	0.82
5	15.67	2" Gas	13.39	WM	12.53	0.86
6	16.20	36" RCP	9.45	WM	8.45	1.00
7	14.90	BTV	12.86	WM	11.98	0.88
8	14.84	18" CMP SD	10.35	WM	9.35	1.00
9	14.67	Prop. SD	10.19	8" SAN	3.39	6.80
10	14.47	WM	10.95	8" SAN	3.28	7.67
11	14.62	2" Gas	12.13	Prop. SD	11.62	0.51
12	14.45	2" Gas	12.13	WM	11.63	0.50
13	13.99	18" RCP SD	10.67	WM	7.87	2.80
14	13.96	Prop. SD	8.87	WM	7.87	1.00
15	14.54	Prop. SD	10.02	WM	9.02	1.00
16	14.41	Prop. SD	9.89	WM	8.89	1.00
17	14.70	Prop. SD	10.18	WM	9.18	1.00
18	14.62	Prop. SD	10.10	WM	9.10	1.00
19	13.93	WM	10.46	15" RCP SD	9.84	0.62
20	14.03	BTV	11.90	WM	11.04	0.86
21	14.09	BTV	11.90	WM	11.05	0.85
22	14.94	WM	10.59	36" SD	9.87	0.72
23	14.10	Prop. SD	9.12	WM	7.87	1.25
24	14.00	Prop. SD	9.22	8" SAN	6.25	2.97
25	13.89	WM	7.29	8" SAN	6.45	0.84
26	13.83	Prop. SD	9.32	WM	7.87	1.45
27	14.66	15" SD	10.08	WM	9.08	1.00
28	14.58	BTV	12.43	WM	9.08	3.35
29	14.69	Ex 6" WM	11.07	WM	9.08	1.99
30	15.33	36" SD	8.38	WM	7.38	1.00
31	14.02	Ex 6" WM	10.30	WM	7.87	2.43
32	14.15	Ex 6" WM TO BE REMOVED	10.30	Prop. SD	11.62	0.00

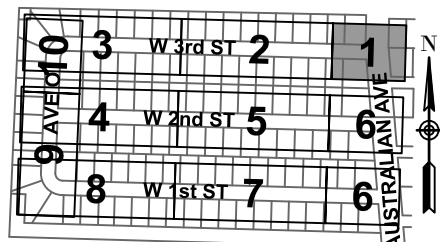


500 Australian Avenue South
Suite 530
West Palm Beach, FL 33401
561.746.6900

www.chenmoore.com
CERTIFICATES OF AUTHORIZATION
 EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE:

SUB-CONSULTANT



CLIENT



Public Works Department
2391 Avenue "L"
Riviera Beach, Florida 33404

PROJECT INFORMATION

RIVIERA HEIGHTS W 1 ST - W 3 ST NEIGHBORHOOD IMPROVEMENTS

CITY OF RIVIERA
BEACH, FLORIDA

PROJECT NUMBER
26-0221.00036

RIVIERA BCH PROJECT
608-16

VERIFY SCALES
0 1"

IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
02/20/2026

DESIGNED BY
MW

DRAWN BY
TN

CHECKED BY
SD

DRAWING TITLE

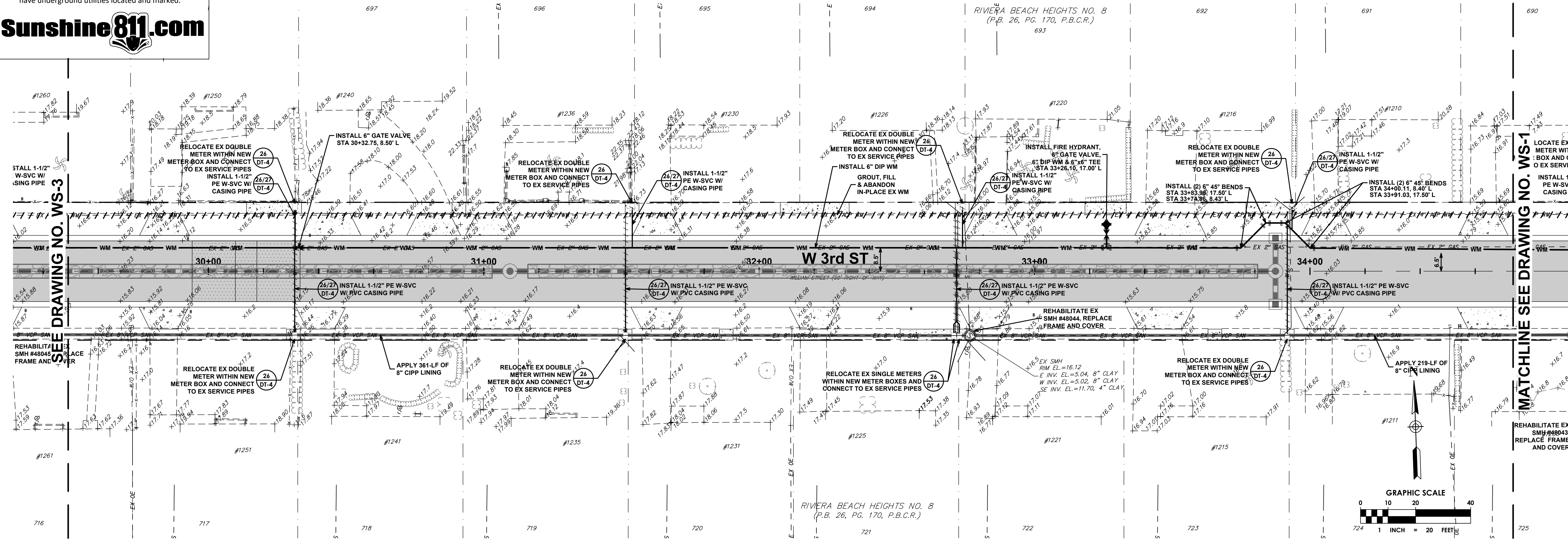
WATER AND SEWER PLAN AND PROFILE

DRAWING NUMBER

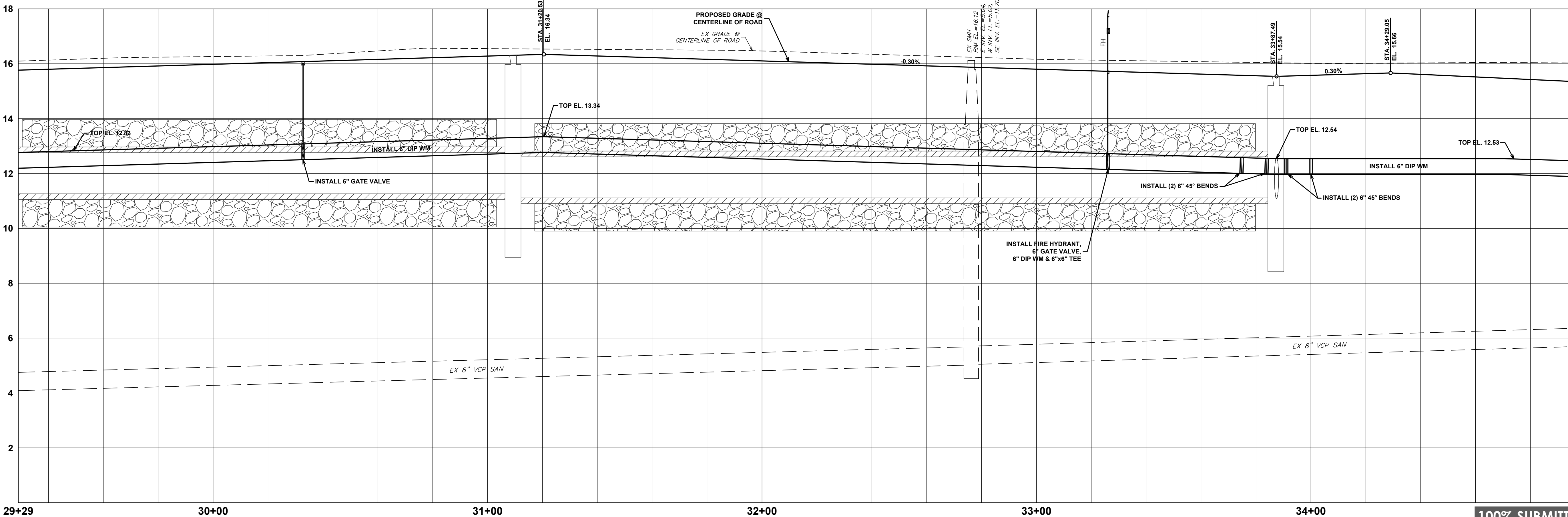
WS-1
21 OF 42

21 OF 42

Always call 811 two full business days before you dig to have underground utilities located and marked.



W 3rd ST
SCALE: 1"=20' HORZ | 1"=2' VERT



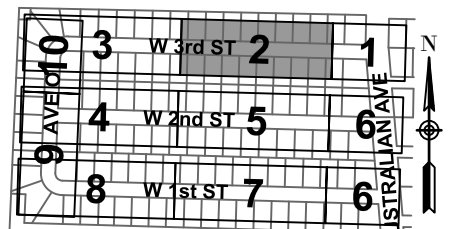
100% SUBMITTAL



500 Australian Avenue South
Suite 530
West Palm Beach, FL 33401
561.746.6900
www.chenmoore.com
CERTIFICATES OF AUTHORIZATION
EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE:

SUB-CONSULTANT



CLIENT



Public Works Department
2391 Avenue "I"
Riviera Beach, Florida 33404

PROJECT INFORMATION

RIVIERA HEIGHTS
W 1 ST - W 3 ST
NEIGHBORHOOD
IMPROVEMENTS

CITY OF RIVIERA
BEACH, FLORIDA

PROJECT NUMBER
26-0221.00036

RIVIERA BCH PROJECT NO
608-16

VERIFY SCALES
0"=1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
02/20/2026

DESIGNED BY
MW

DRAWN BY
TN

CHECKED BY
SD

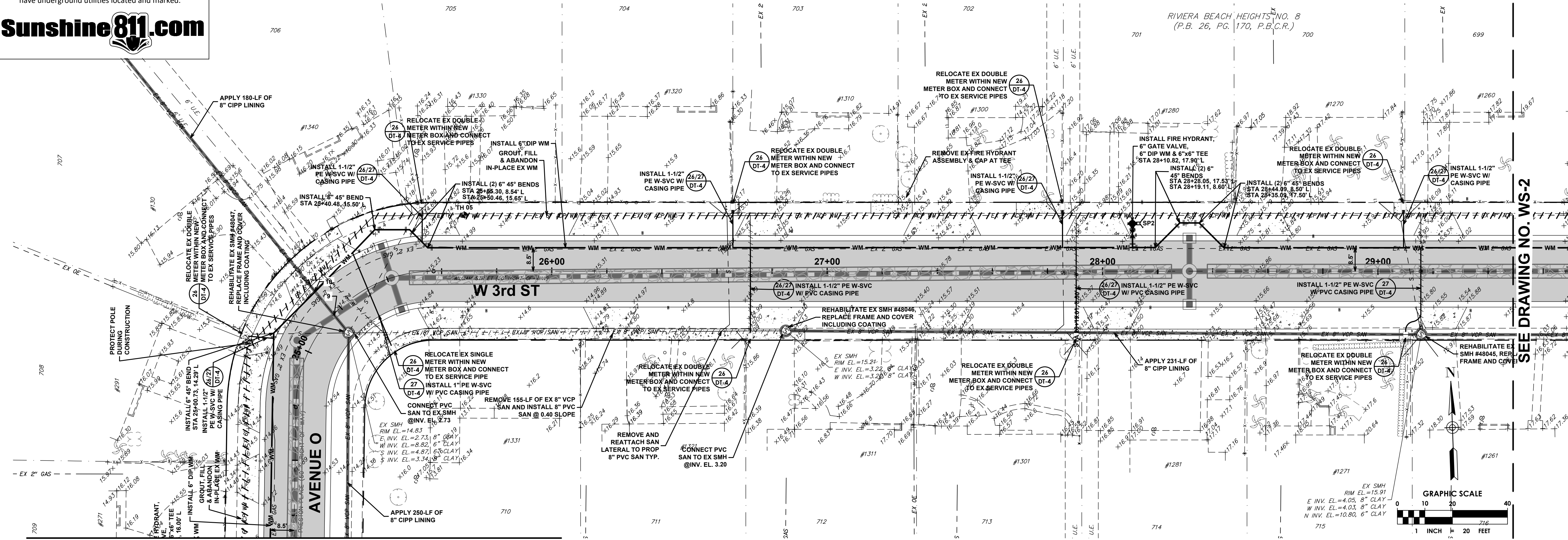
DRAWING TITLE

WATER AND
SEWER PLAN AND
PROFILE

DRAWING NUMBER

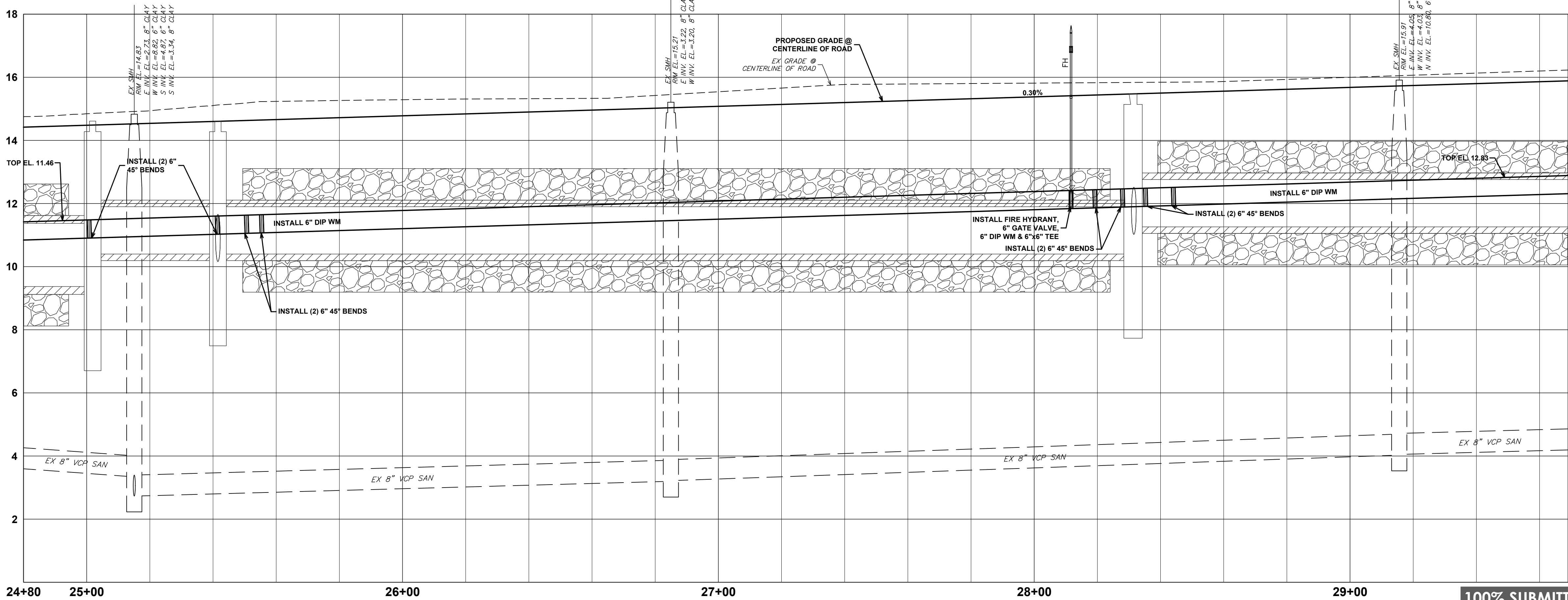
WS-2
22 OF 42

Always call 811 two full business days before you dig to have underground utilities located and marked.



SEE DRAWING NO. WS-10

W 3rd ST
SCALE: 1"=20' HORZ | 1"=2' VERT



100% SUBMITTAL

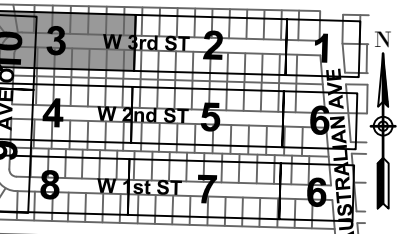


500 Australian Avenue South
Suite 530
West Palm Beach, FL 33401
561.746.6900

www.chenmoore.com
CERTIFICATES OF AUTHORIZATION
EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE: _____

SUB-CONSULTANT



CLIENT



Public Works Department
2391 Avenue "I"
Riviera Beach, Florida 33404

PROJECT INFORMATION

RIVIERA HEIGHTS
W 1 ST - W 3 ST
NEIGHBORHOOD
IMPROVEMENTS

CITY OF RIVIERA
BEACH, FLORIDA

PROJECT NUMBER
26-0221.00036

RIVIERA BCH PROJECT NO
608-16

VERIFY SCALES
0"=1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
02/20/2026

DESIGNED BY
MW

DRAWN BY
TN

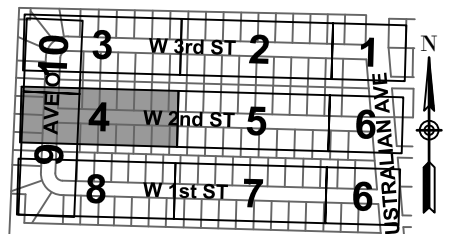
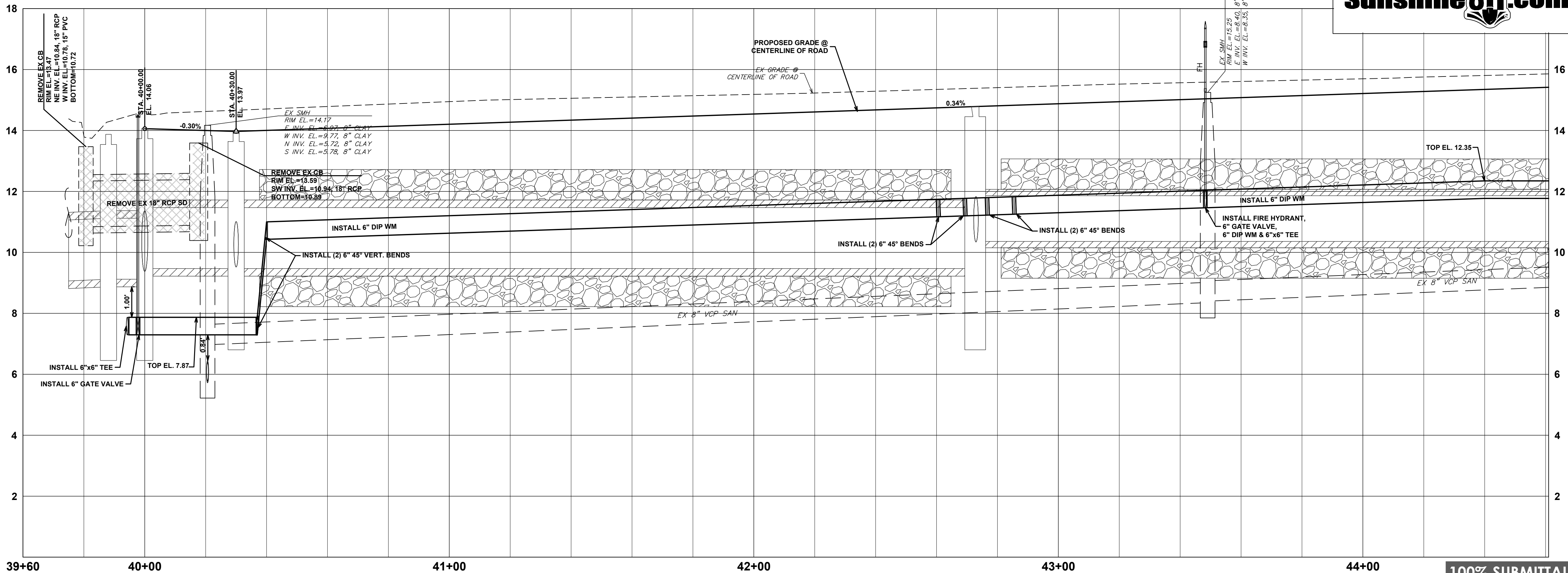
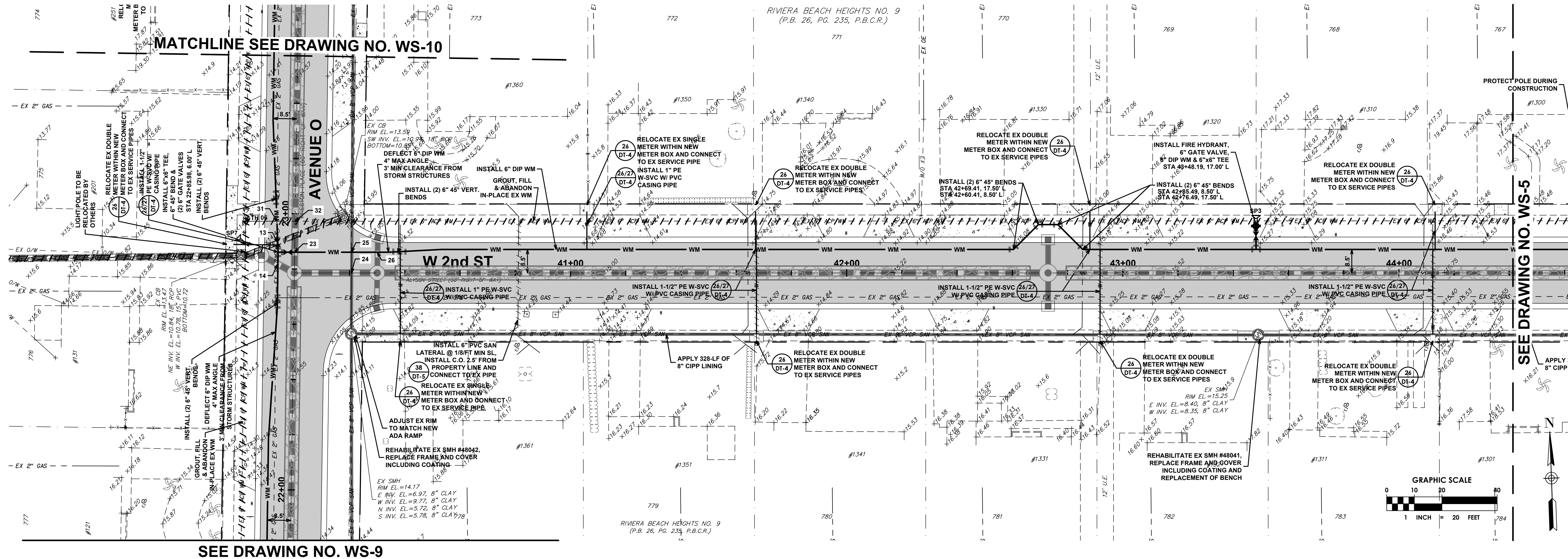
CHECKED BY
SD

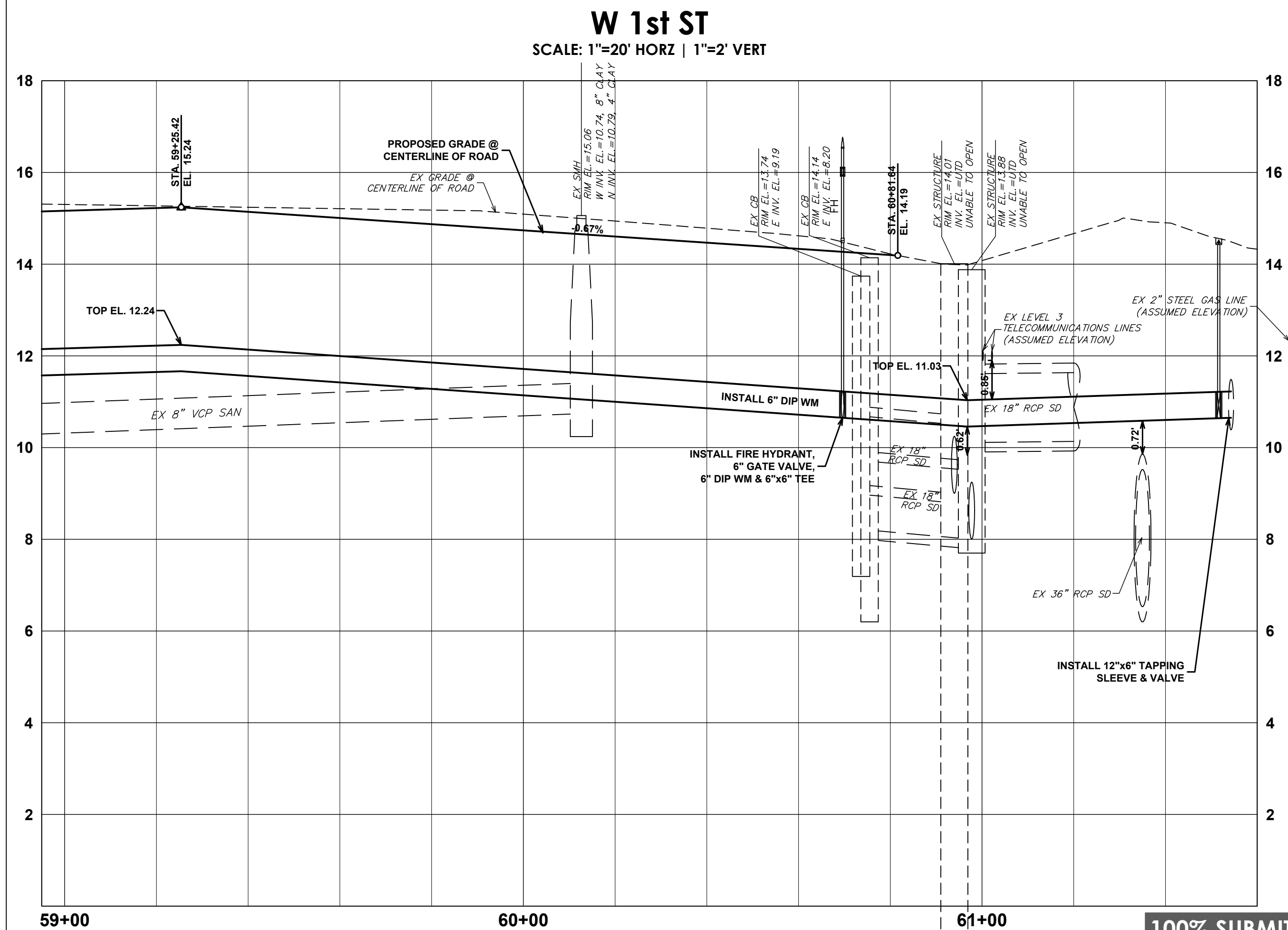
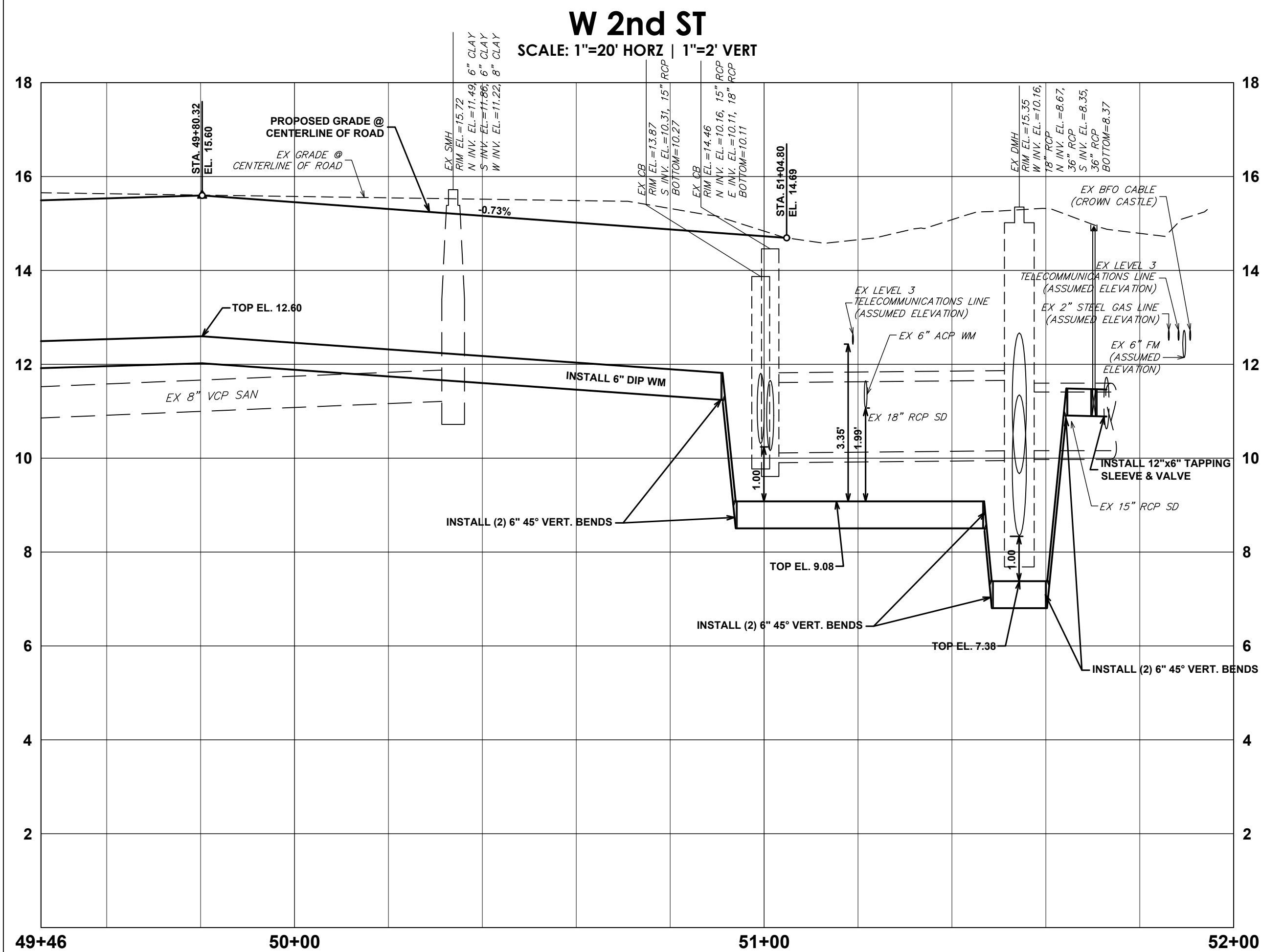
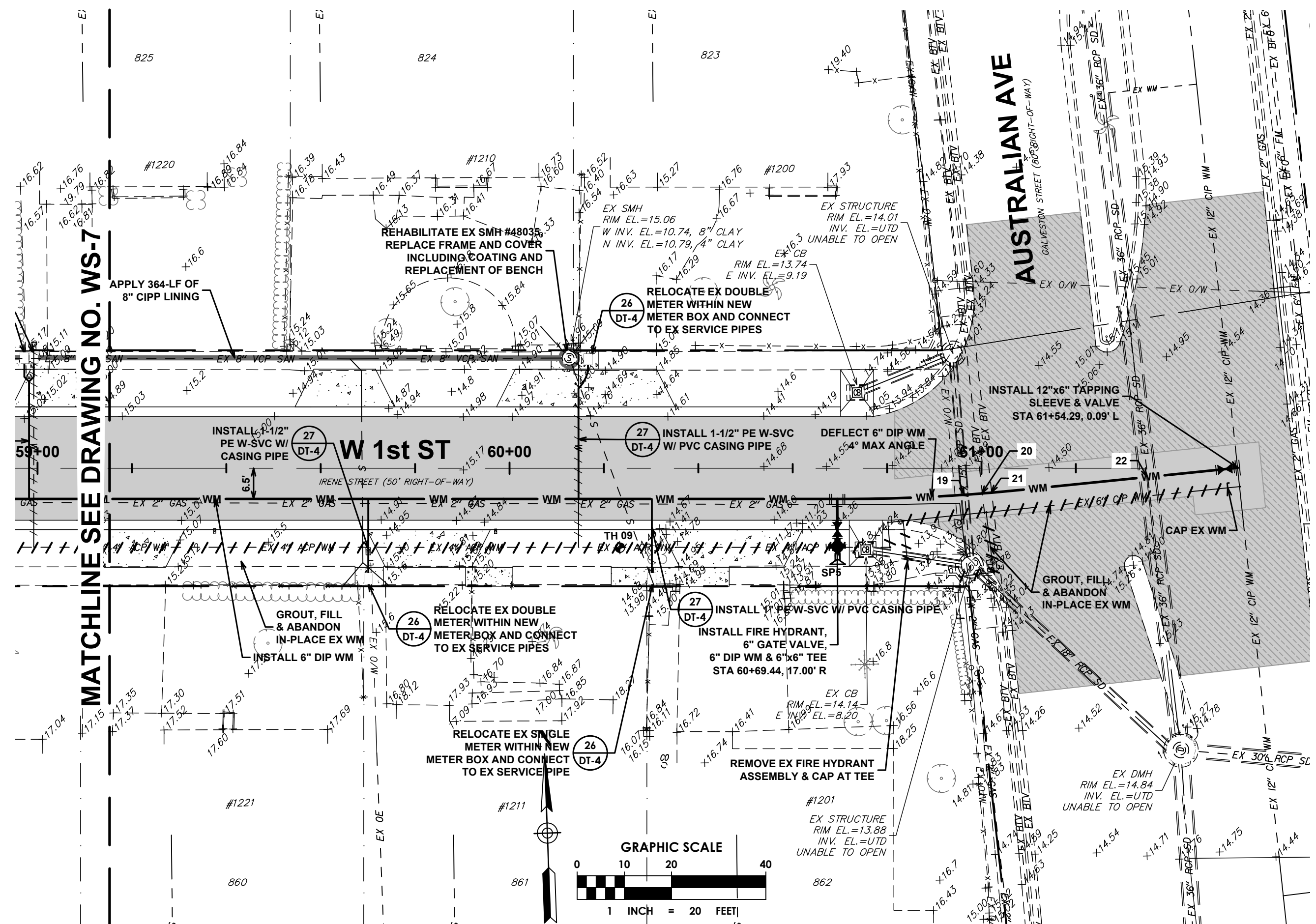
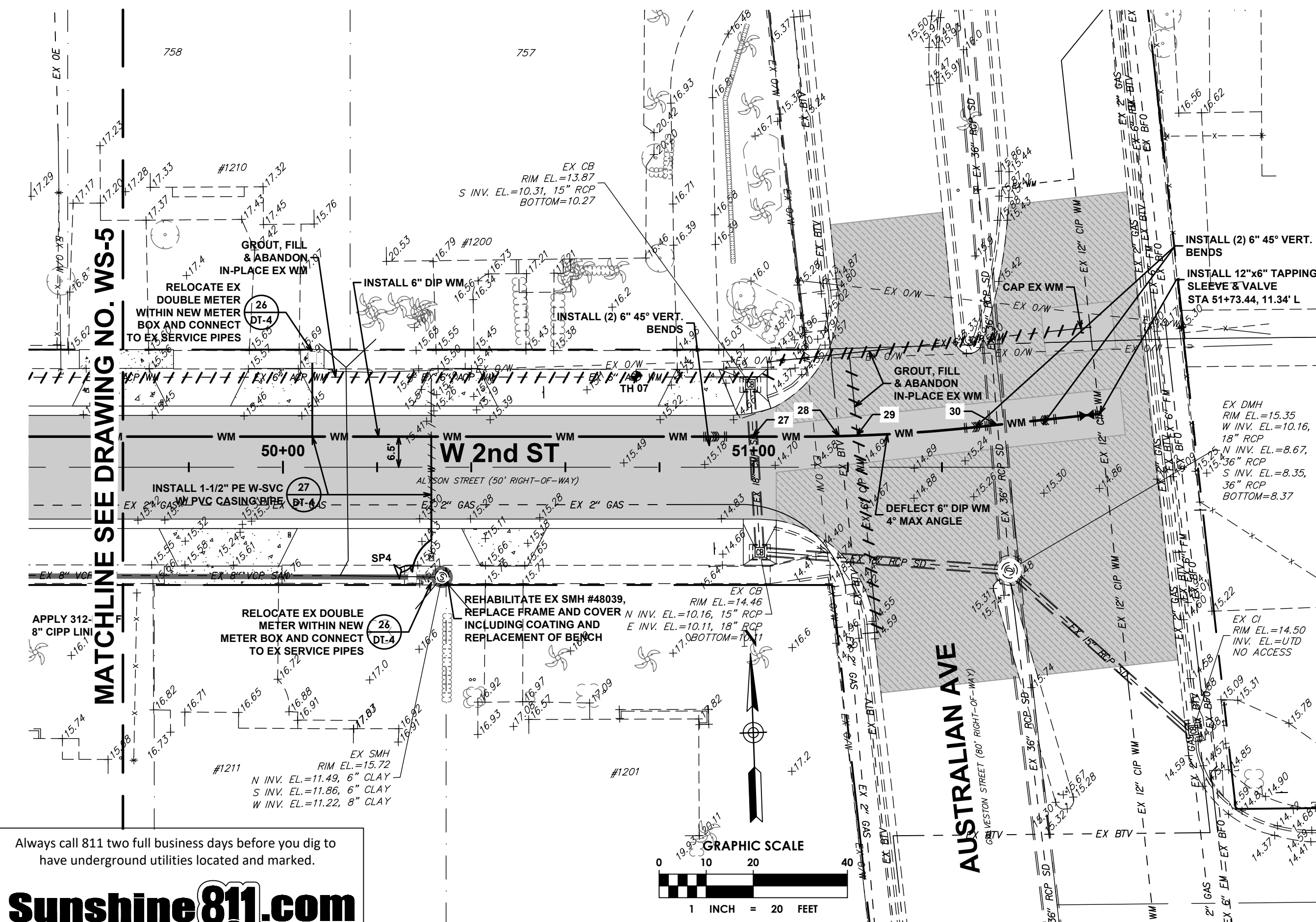
DRAWING TITLE

WATER AND
SEWER PLAN AND
PROFILE

DRAWING NUMBER

WS-3
23 OF 42

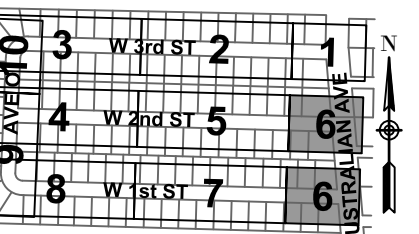




500 Australian Avenue South
Suite 530
West Palm Beach, FL 33401
561.746.6900
www.chenmoore.com
CERTIFICATES OF AUTHORIZATION
EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE:

SUB-CONSULTANT



CLIENT



Public Works Department
2391 Avenue "L"
Ft. Lauderdale, Florida 33404

PROJECT INFORMATION

RIVIERA HEIGHTS W 1 ST - W 3 ST NEIGHBORHOOD IMPROVEMENTS

CITY OF RIVIERA
BEACH, FLORIDA

PROJECT NUMBER
26-0221.00036

RIVIERA BCH PROJECT NO
608-16

VERIFY SCALES
0 1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
02/20/2026

DESIGNED BY
MW

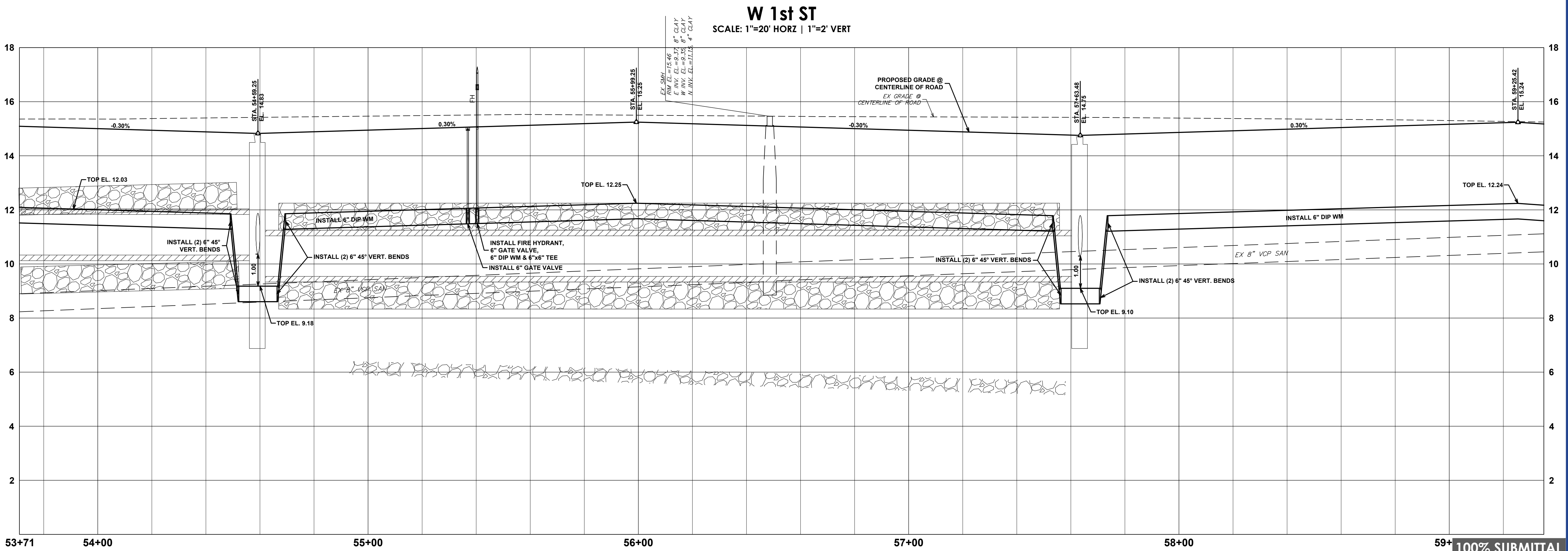
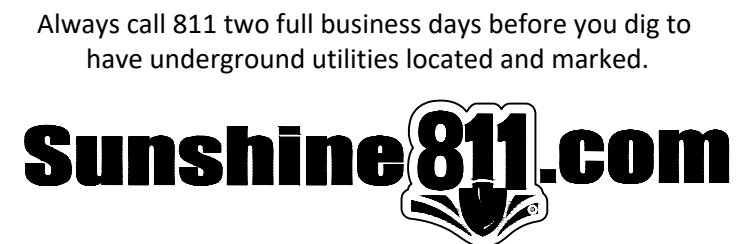
DRAWN BY
TN

CHECKED BY
SD

DRAWING TITLE

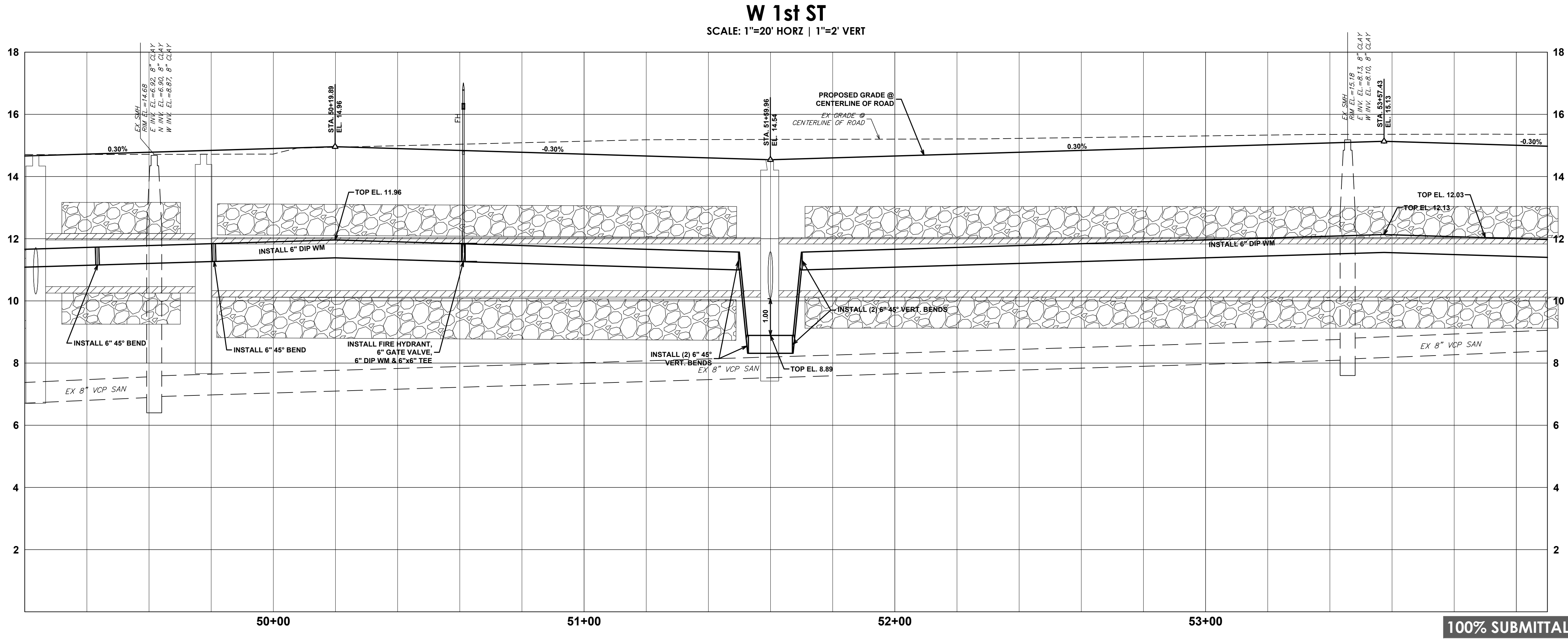
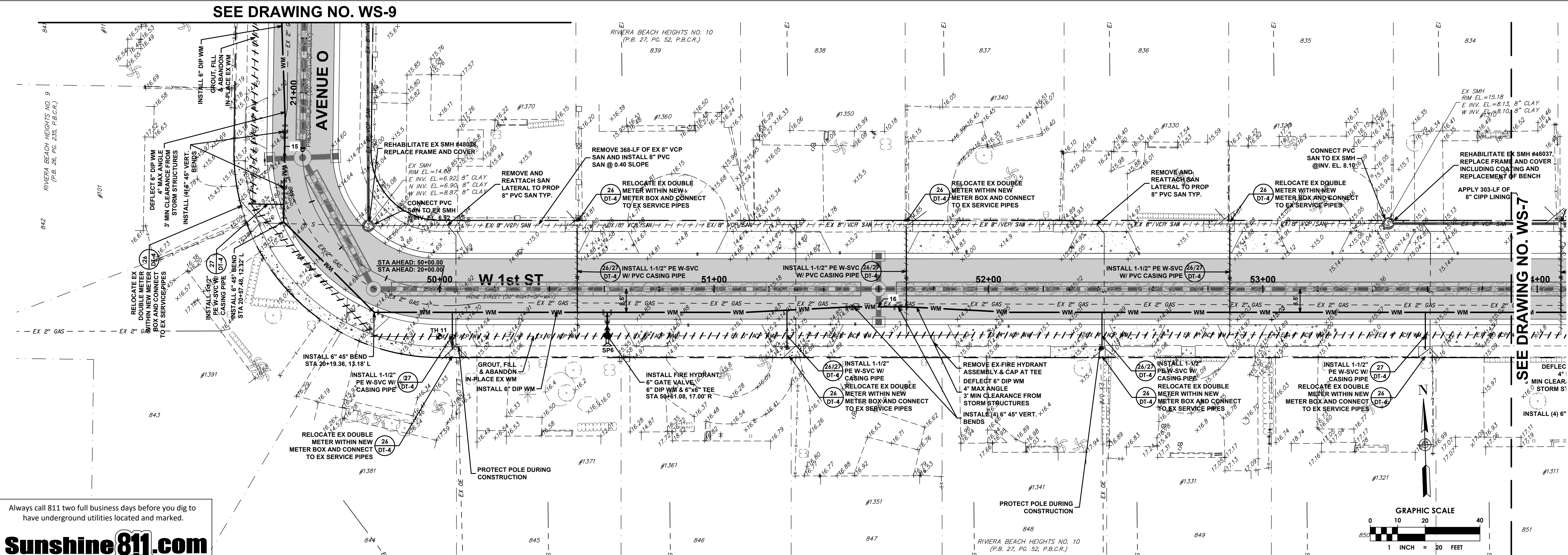
**WATER AND
SEWER PLAN AND
PROFILE**

DRAWING NUMBER
WS-6
26 OF 42



Always call 811 two full business days before you dig to have underground utilities located and marked.

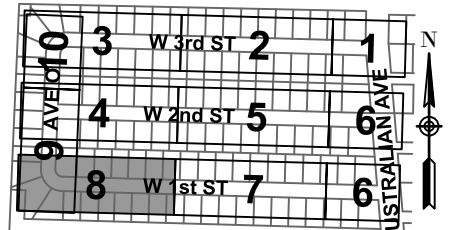
Sunshine811.com



500 Australian Avenue South
Suite 530
West Palm Beach, FL 33401
561.746.6900
www.chenmoore.com
CERTIFICATES OF AUTHORIZATION
EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE: _____

SUB-CONSULTANT



CLIENT

CITY OF RIVIERA BEACH
PALM BEACH COUNTY, FL

Public Works Department
2391 Avenue "I"
Riviera Beach, Florida 33404

PROJECT INFORMATION

RIVIERA HEIGHTS
W 1 ST - W 3 ST
NEIGHBORHOOD
IMPROVEMENTS

CITY OF RIVIERA
BEACH, FLORIDA

PROJECT NUMBER
26-0221.00036

RIVIERA BCH PROJECT NO
608-16

VERIFY SCALES
0 1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
02/20/2026

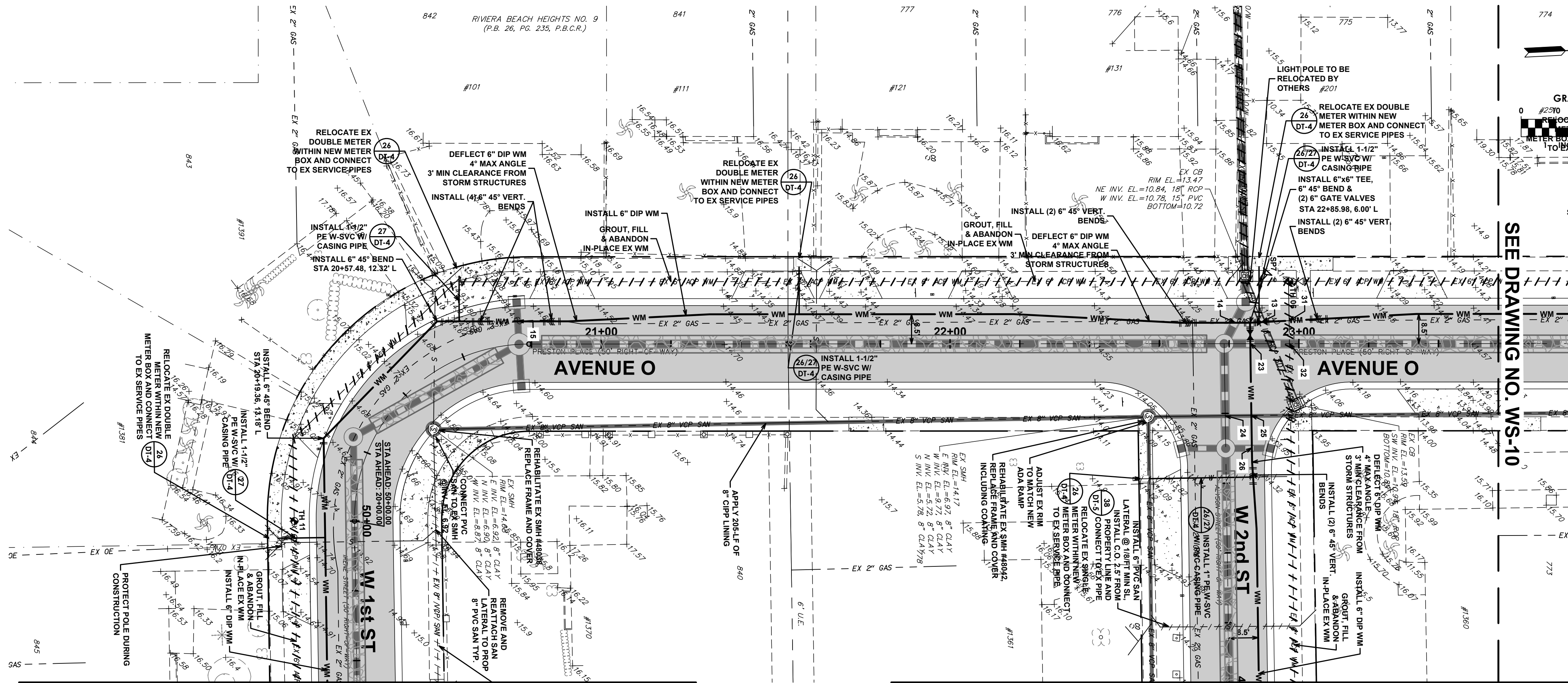
DESIGNED BY
MW

DRAWN BY
TN

CHECKED BY
SD

DRAWING TITLE
WATER AND
SEWER PLAN AND
PROFILE

DRAWING NUMBER
WS-8
28 OF 42

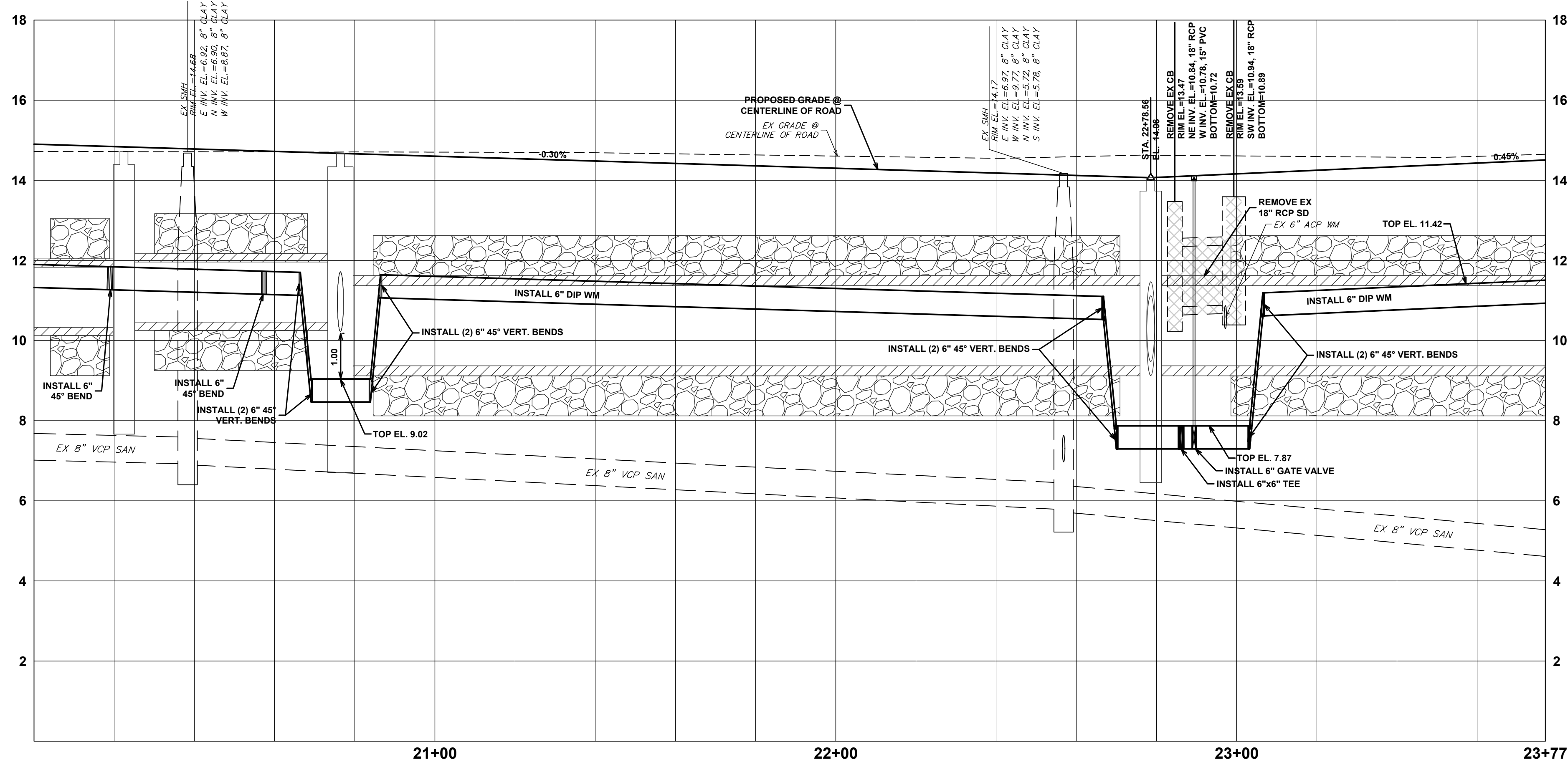


LEGEND

	PLAT LINE
	RIGHT-OF-WAY LINE
	LOT LINE
	CENTER LINE
	EASEMENT LINE
	EXISTING STORM DRAIN PIPE
	EXISTING WATER MAIN PIPE
	EXISTING WATER SERVICE LATERAL
	EXISTING SANITARY SEWER PIPE
	EXISTING SEWER SERVICE LATERAL
	EXISTING ELEVATION
	EXISTING FENCE
	EXISTING FIRE HYDRANT
	EXISTING GATE VALVE
	EXISTING WATER METER
	EXISTING CATCH BASIN
	EXISTING GUYWIRE ANCHOR
	EXISTING TREE
	EXISTING PINE TREE
	EXISTING PALM TREE
	EXISTING SPOTLIGHT AND/OR FLOODLIGHT
	EXISTING SIGN
	EXISTING SHRUB/HEDGE
	EXISTING STORM MANHOLE
	SAMPLE POINT
	PROPOSED WATER MAIN
	PROPOSED FLUSHING VALVE OUTLET OR BLOWOFF
	PROPOSED PLUG
	PROPOSED CAP
	PROPOSED FITTINGS
	PROPOSED FIRE HYDRANT
	PROPOSED REDUCER
	PROPOSED TAP SLEEVE AND VALVE
	PROPOSED GATE VALVE
	PROPOSED BUTTERFLY VALVE
	PROPOSED AIR RELEASE VALVE
	PROPOSED WATER METER AND SERVICE LATERAL
	PROPOSED STORM DRAIN PIPE
	PROPOSED STORM DRAIN PIPE WITH EXFILTRATION TRENCH
	PROPOSED CATCH BASIN OR INLET
	PROPOSED STORM MANHOLE
	TEST HOLE

AVENUE O

SCALE: 1"=20' HORIZ | 1"=2' VERT



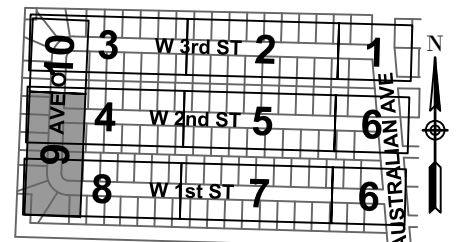
Always call 811 two full business days before you dig to have underground utilities located and marked.



500 Australian Avenue South
Suite 530
West Palm Beach, FL 33401
561.746.6900
www.chenmoore.com
CERTIFICATES OF AUTHORIZATION
EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE:

SUB-CONSULTANT



CLIENT



Public Works Department
2391 Avenue "I"
Riviera Beach, Florida 33404

PROJECT INFORMATION

RIVIERA HEIGHTS
W 1 ST - W 3 ST
NEIGHBORHOOD
IMPROVEMENTS

CITY OF RIVIERA
BEACH, FLORIDA

PROJECT NUMBER
26-0221.00036

RIVIERA BCH PROJECT NO
608-16

VERIFY SCALES
0"=1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
02/20/2026

DESIGNED BY
MW

DRAWN BY
TN

CHECKED BY
SD

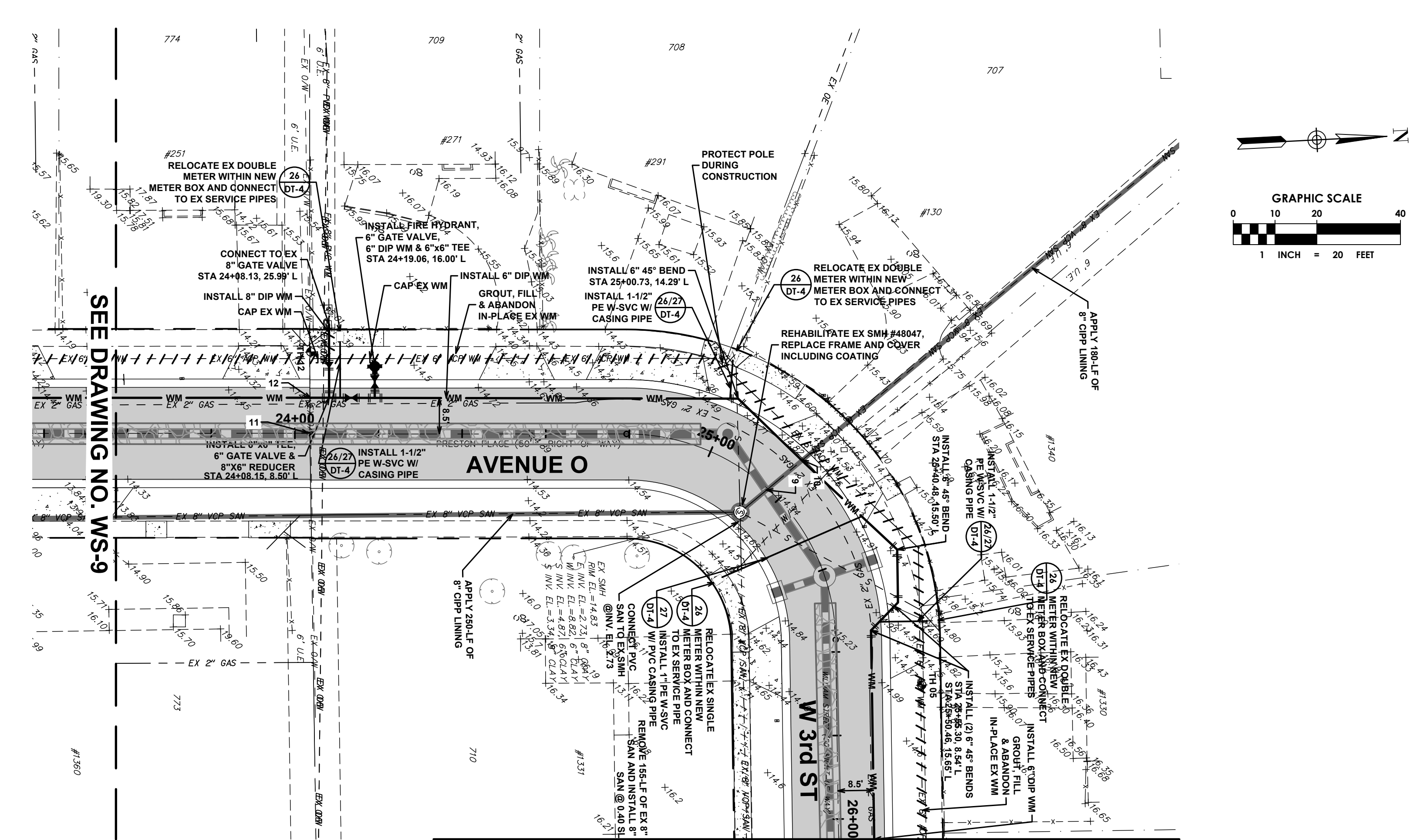
DRAWING TITLE

WATER AND
SEWER PLAN AND
PROFILE

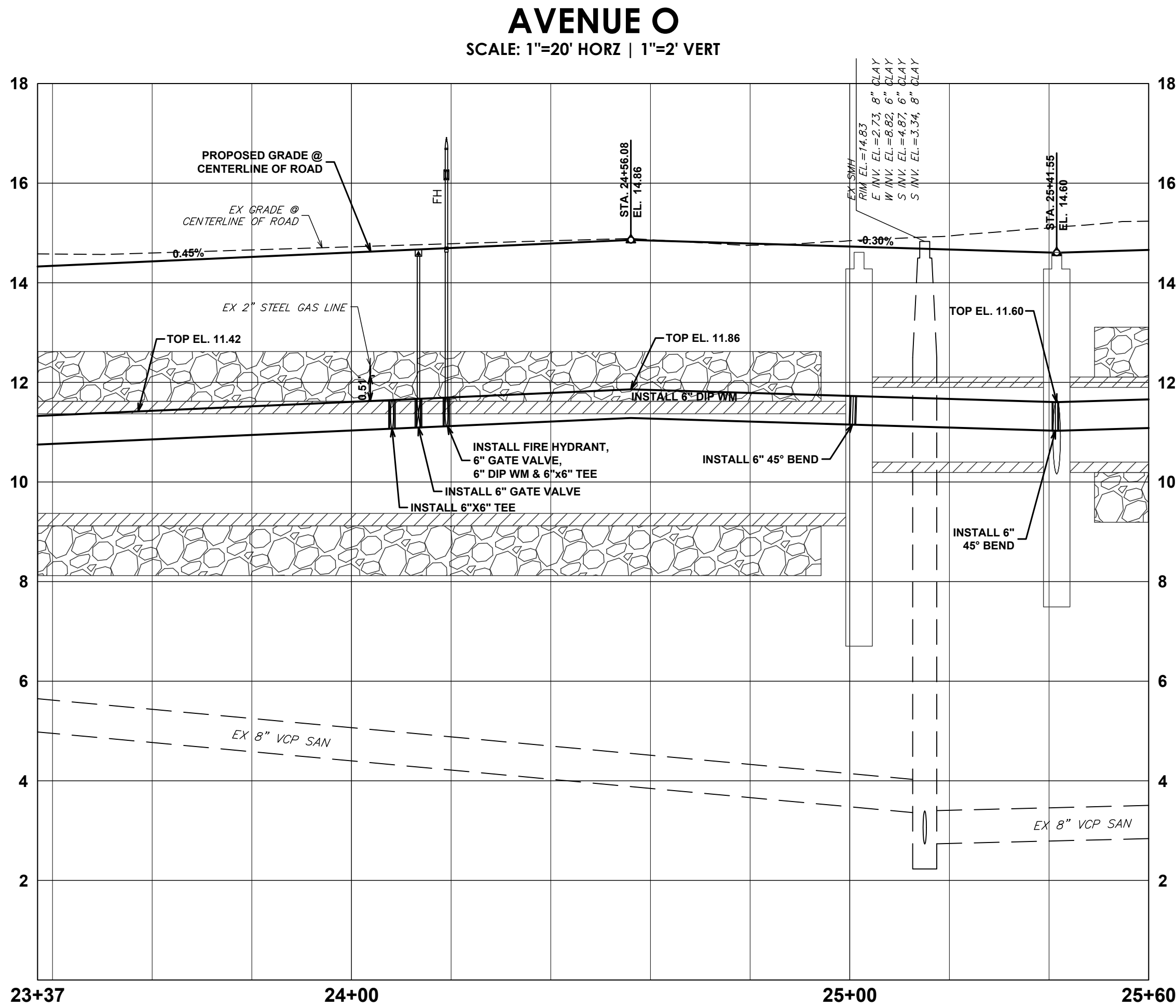
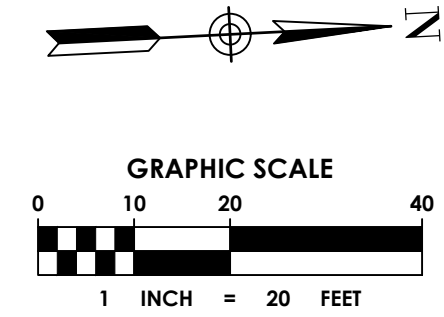
DRAWING NUMBER

WS-9
29 OF 42

100% SUBMITTAL



LEGEND	
	PLAT LINE
	RIGHT-OF-WAY LINE
	LOT LINE
	CENTER LINE
	EASEMENT LINE
	EXISTING STORM DRAIN PIPE
	EXISTING WATER MAIN PIPE
	EXISTING WATER SERVICE LATERAL
	EXISTING SANITARY SEWER PIPE
	EXISTING SEWER SERVICE LATERAL
	EXISTING ELEVATION
	EXISTING FENCE
	EXISTING FIRE HYDRANT
	EXISTING GATE VALVE
	EXISTING WATER METER
	EXISTING CATCH BASIN
	EXISTING GUYWIRE ANCHOR
	EXISTING TREE
	EXISTING PINE TREE
	EXISTING PALM TREE
	EXISTING SPOTLIGHT AND/OR FLOODLIGHT
	EXISTING SIGN
	EXISTING SHRUB/HEDGE
	EXISTING STORM MANHOLE
SAMPLE POINT	
	PROPOSED WATER MAIN
	PROPOSED FLUSHING VALVE OUTLET OR BLOWOFF
	PROPOSED PLUG
	PROPOSED CAP
	PROPOSED FITTINGS
	PROPOSED FIRE HYDRANT
	PROPOSED REDUCER
	PROPOSED TAP SLEEVE AND VALVE
	PROPOSED GATE VALVE
	PROPOSED BUTTERFLY VALVE
	PROPOSED AIR RELEASE VALVE
	PROPOSED WATER METER AND SERVICE LATERAL
	PROPOSED STORM DRAIN PIPE WITH EXFILTRATION TRENCH
	PROPOSED CATCH BASIN OR INLET
	PROPOSED STORM MANHOLE
	TEST HOLE



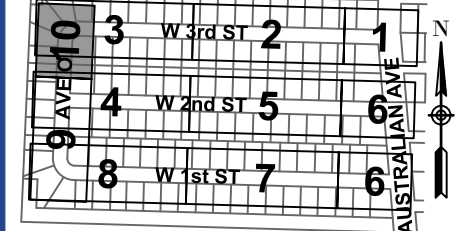
Always call 811 two full business days before you dig to have underground utilities located and marked.



500 Australian Avenue South
Suite 530
West Palm Beach, FL 33401
561.746.6900
www.chenmoore.com
CERTIFICATES OF AUTHORIZATION
EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE: _____

SUB-CONSULTANT



CLIENT



Public Works Department
2391 Avenue "I"
Riviera Beach, Florida 33404

PROJECT INFORMATION

RIVIERA HEIGHTS
W 1 ST - W 3 ST
NEIGHBORHOOD
IMPROVEMENTS

CITY OF RIVIERA
BEACH, FLORIDA

PROJECT NUMBER
26-0221.00036

RIVIERA BCH PROJECT NO
608-16

VERIFY SCALES
0" = 1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
02/20/2026

DESIGNED BY
MW

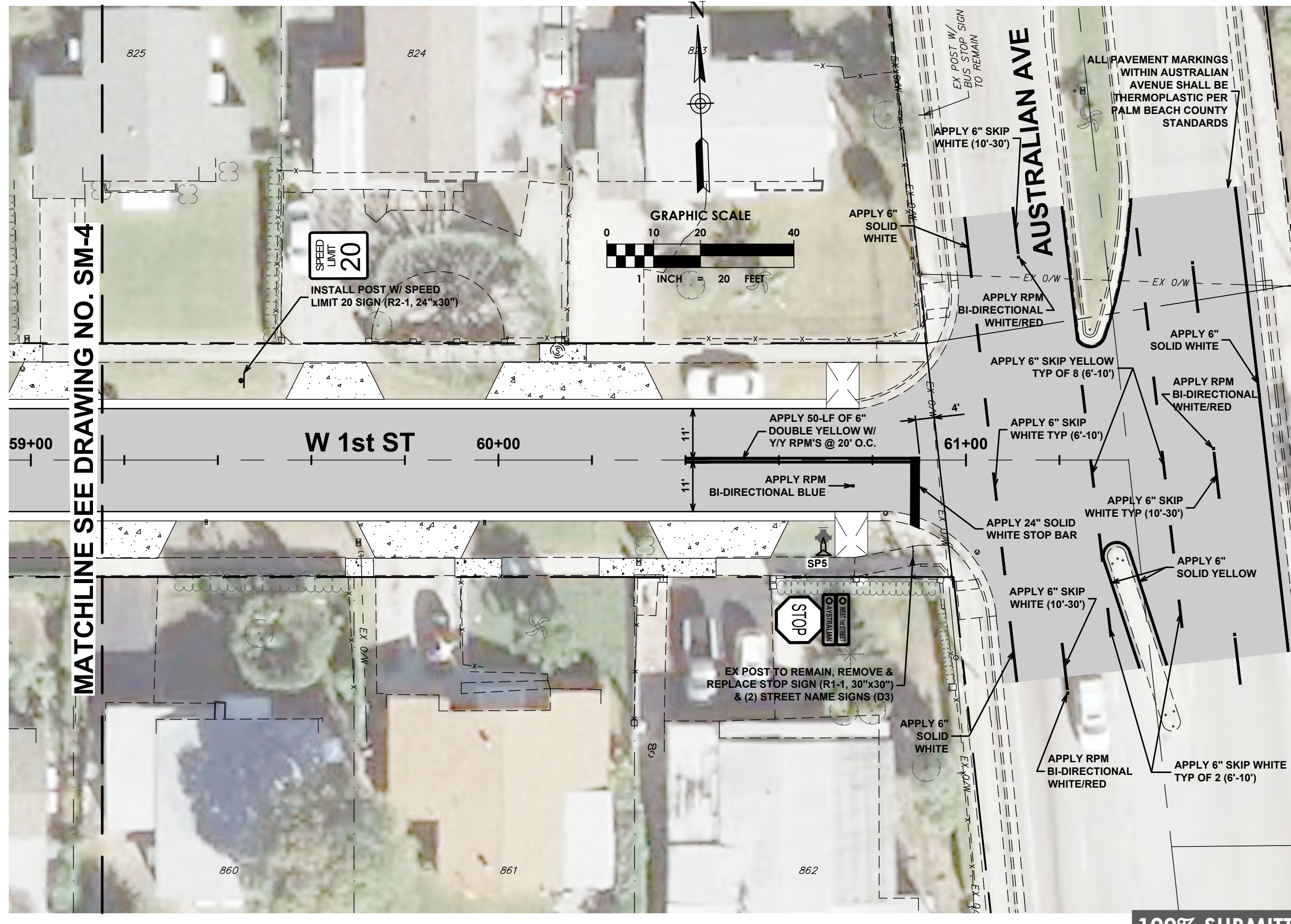
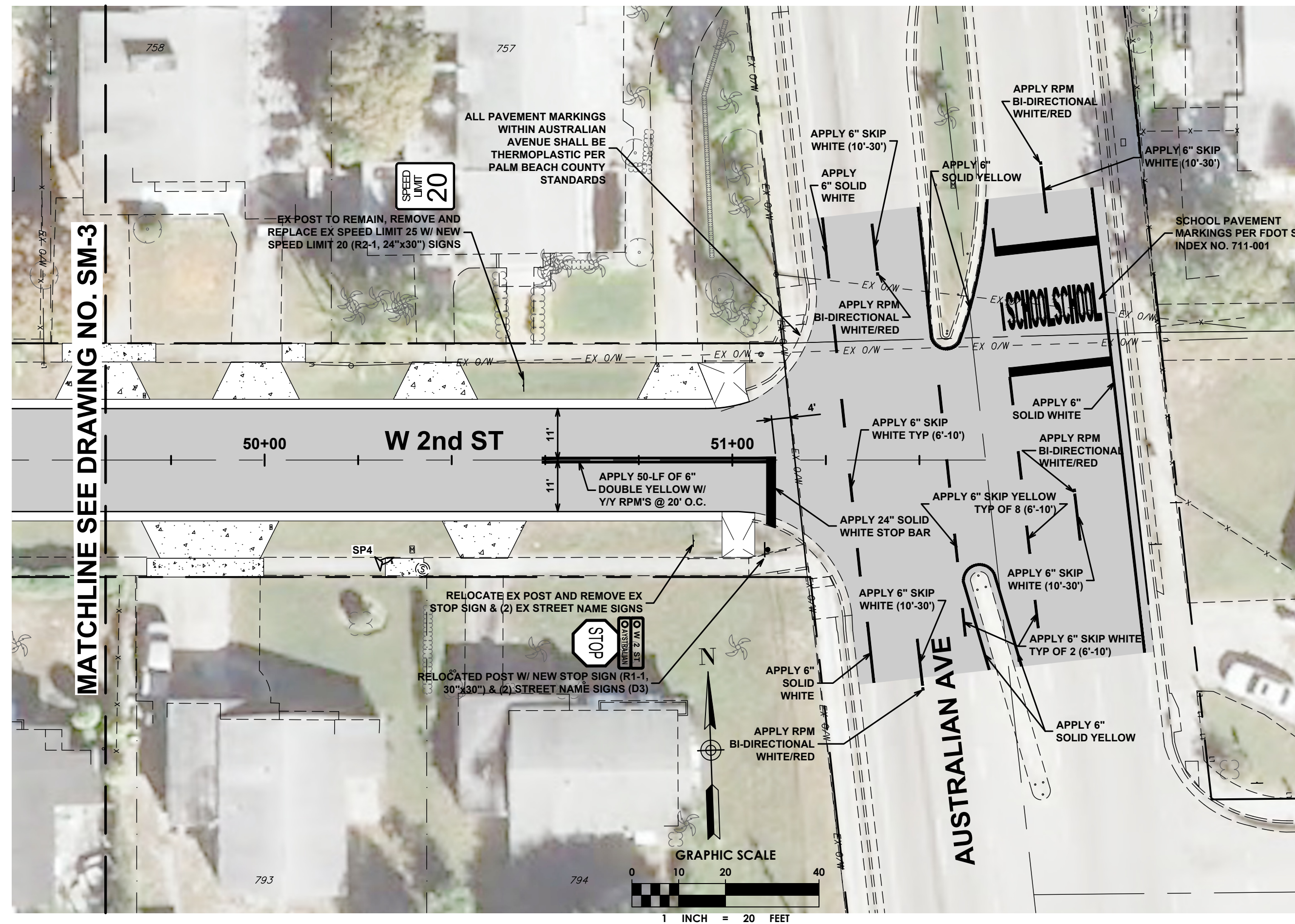
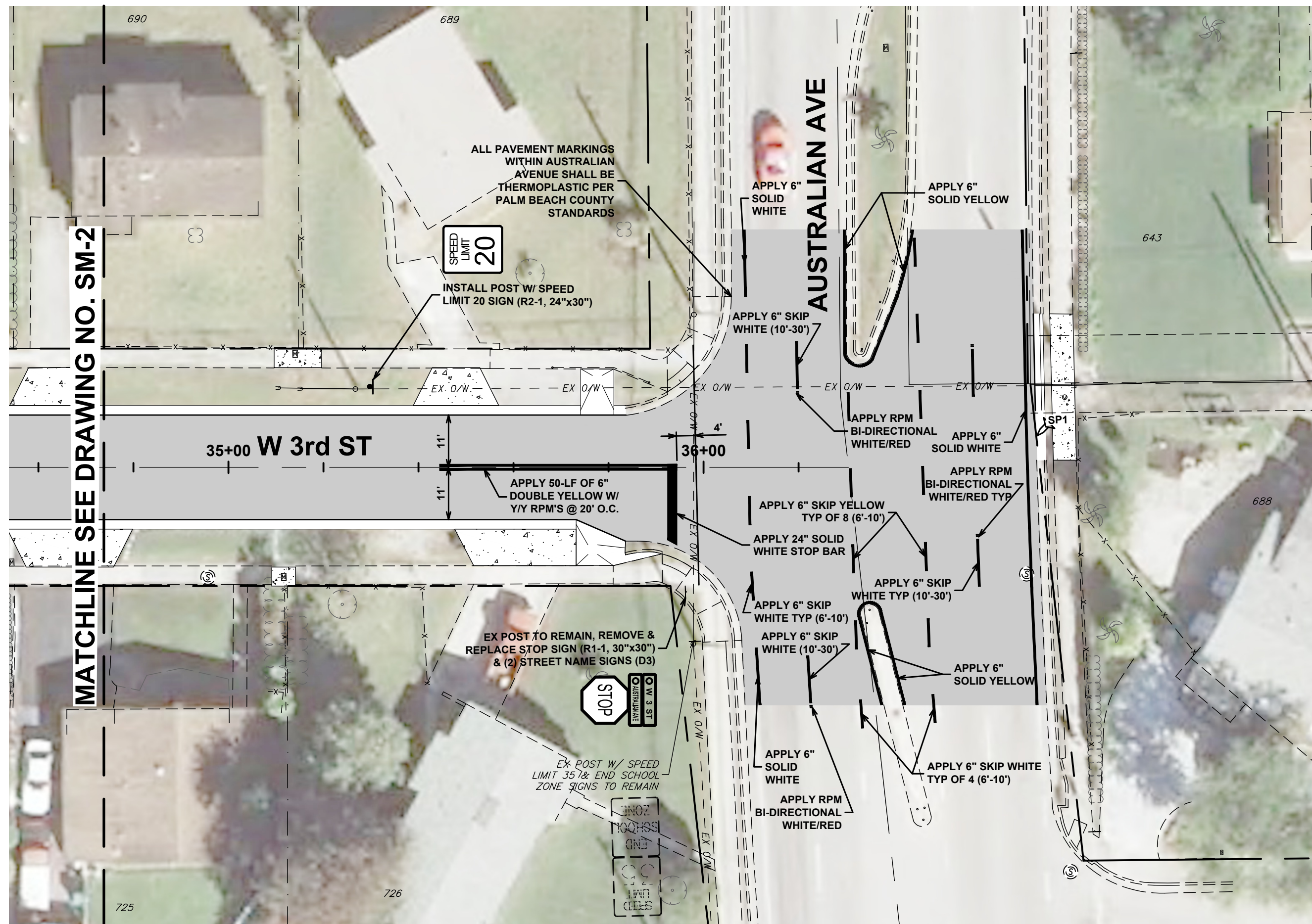
DRAWN BY
TN

CHECKED BY
SD

DRAWING TITLE
WATER AND
SEWER PLAN AND
PROFILE

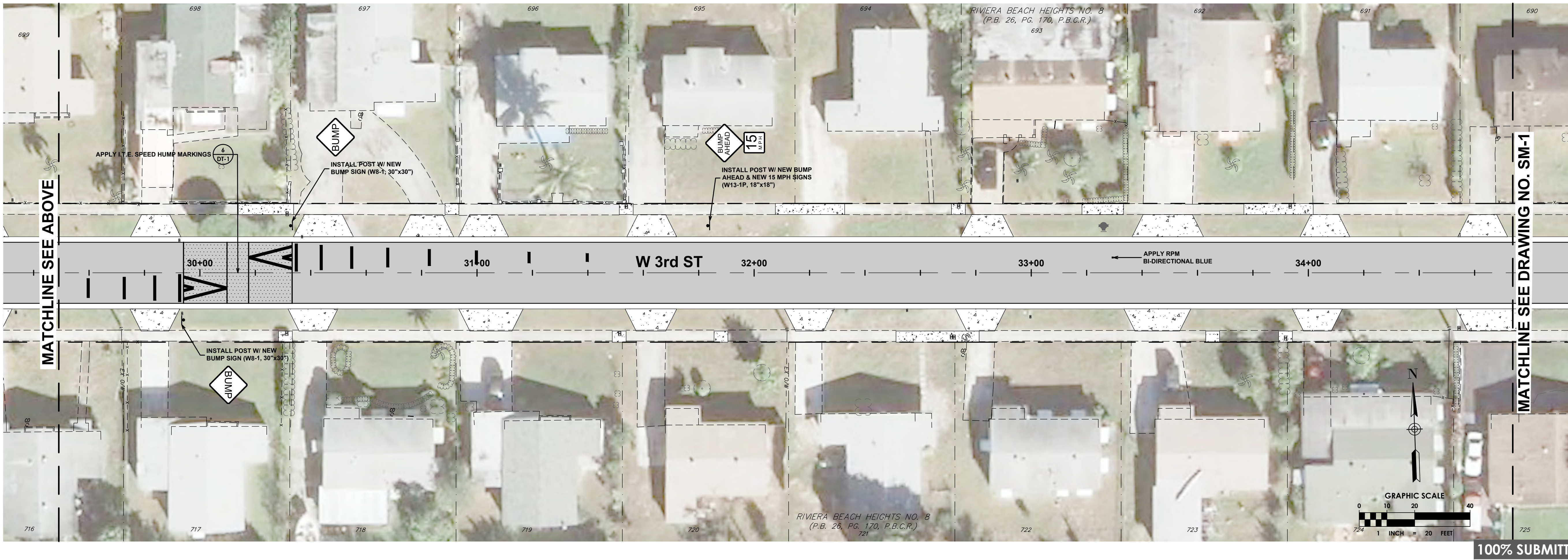
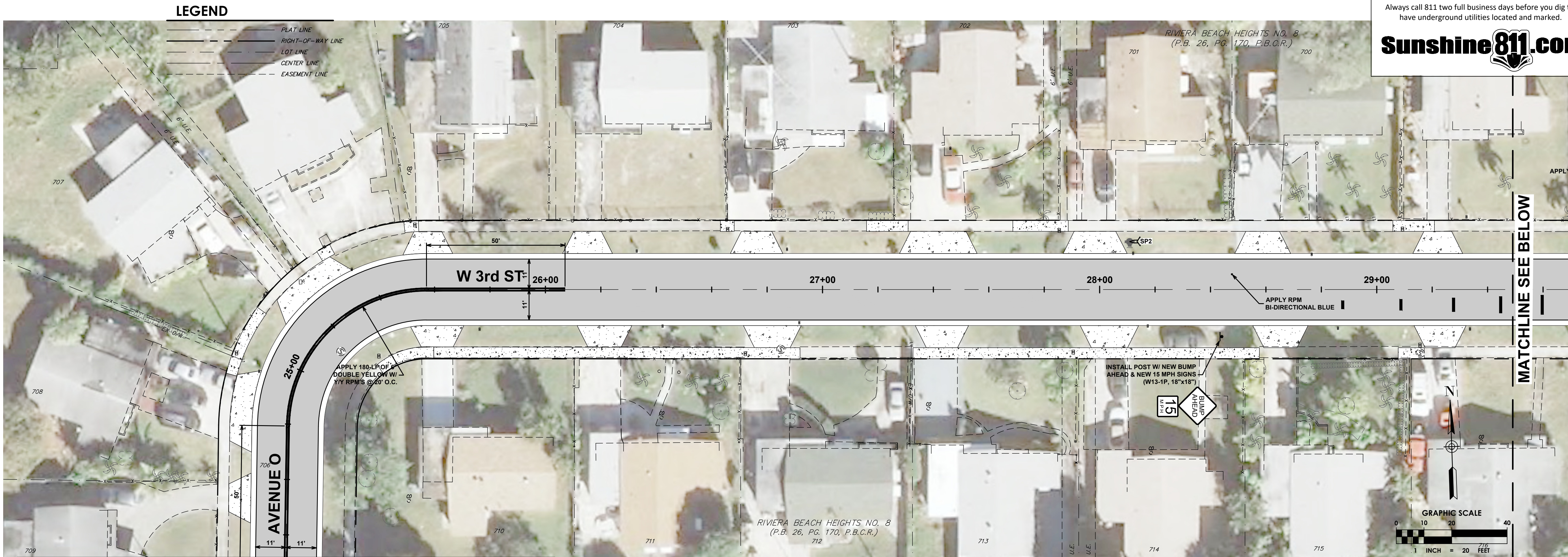
DRAWING NUMBER
WS-10
30 OF 42

100% SUBMITTAL



100% SUBMITTAL

Plot Date: 3/10/2026 10:44:06 AM Username: nwasiko Layout Name: SM-2
Folder Path: V:\Projects\2026\26-0221.00036 - w 1st street - w 3rd street plan updates\Design\CAD\Sheets Filename: 15-221.001-RivHghts-10 Proposed Signing and Marking Plan.dwg



cma
chen moore and associates

500 Australian Avenue South
Suite 530
West Palm Beach, FL 33401
561.746.6900
www.chenmoore.com

CERTIFICATES OF AUTHORIZATION
EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE: _____

SUB-CONSULTANT

CLIENT

**CITY OF RIVIERA BEACH
PALM BEACH COUNTY, FL**

Public Works Department
2391 Avenue "I"
Riviera Beach, Florida 33404

PROJECT INFORMATION

**RIVIERA HEIGHTS
W 1 ST - W 3 ST
NEIGHBORHOOD
IMPROVEMENTS**

CITY OF RIVIERA
BEACH, FLORIDA

PROJECT NUMBER
26-0221.00036

RIVIERA BCH PROJECT NO
608-16

VERIFY SCALES
0" = 1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
02/20/2026

DESIGNED BY
MW

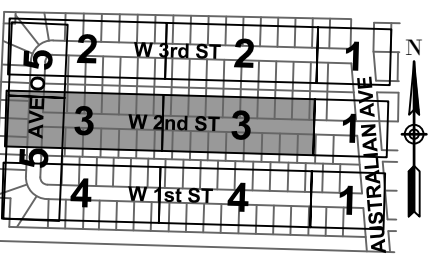
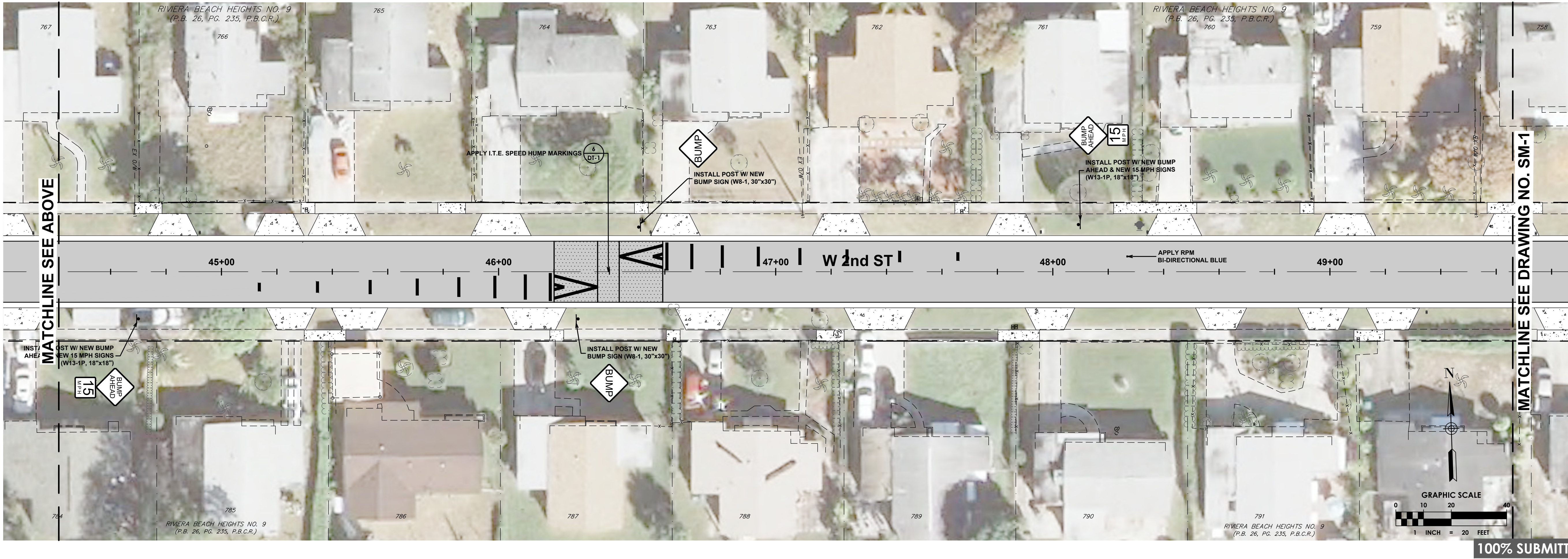
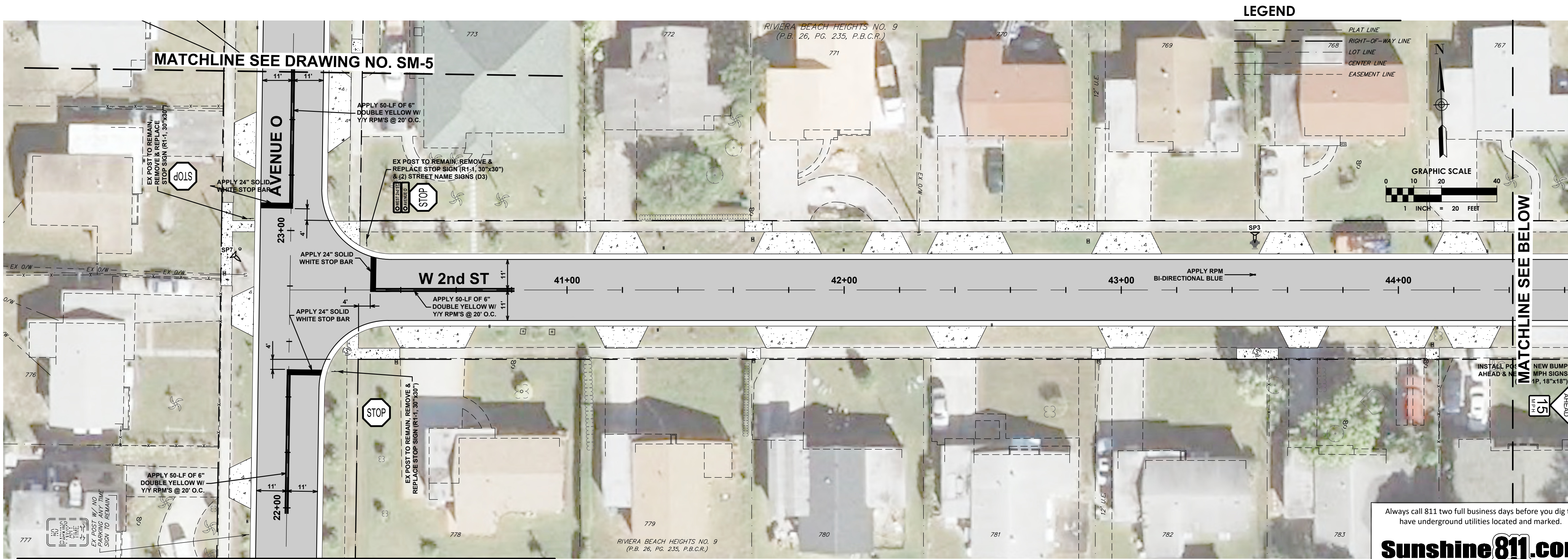
DRAWN BY
TN

CHECKED BY
SD

DRAWING TITLE

**SIGNING AND
MARKING PLAN**

DRAWING NUMBER
SM-2
32 OF 42



Plot Date: 3/10/2026 10:44:19 AM Username: nwasiko Layout Name: SM-4
Folder Path: V:\Projects\2026\26-0221.00036 - w 1st street - w 3rd street plan updates\Design\CAD\Sheets Filename: 15-221.001-RivHghts-10 Proposed Signing and Marking Plan.dwg



cma
chen moore and associates

500 Australian Avenue South
Suite 530
West Palm Beach, FL 33401
561.746.6900
www.chenmoore.com

CERTIFICATES OF AUTHORIZATION
EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE: _____

SUB-CONSULTANT

CLIENT

CITY OF RIVIERA BEACH
PALM BEACH COUNTY, FL

Public Works Department
2391 Avenue "L"
Riviera Beach, Florida 33404

PROJECT INFORMATION

**RIVIERA HEIGHTS
W 1 ST - W 3 ST
NEIGHBORHOOD
IMPROVEMENTS**

CITY OF RIVIERA
BEACH, FLORIDA

PROJECT NUMBER
26-0221.00036

RIVIERA BCH PROJECT NO
608-16

VERIFY SCALES
0" = 1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
02/20/2026

DESIGNED BY
MW

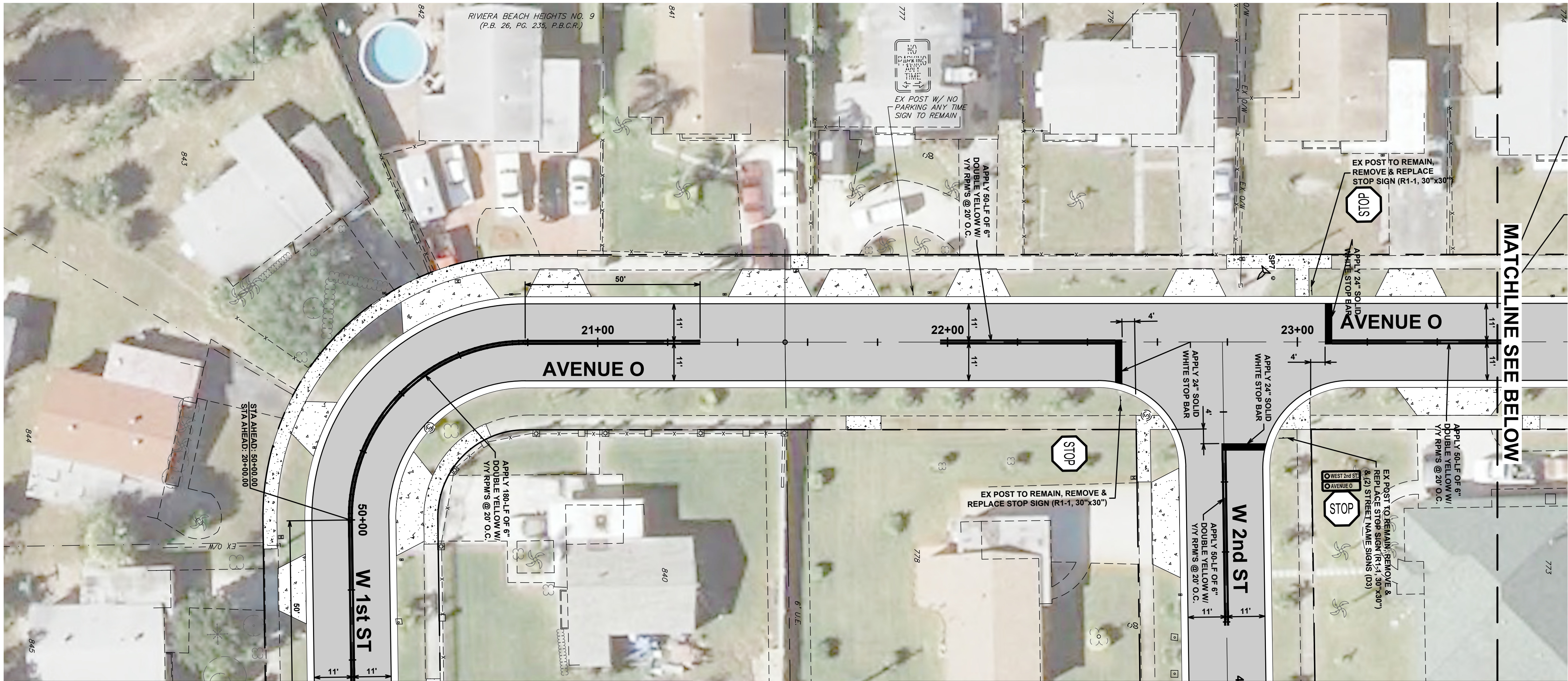
DRAWN BY
TN

CHECKED BY
SD

DRAWING TITLE

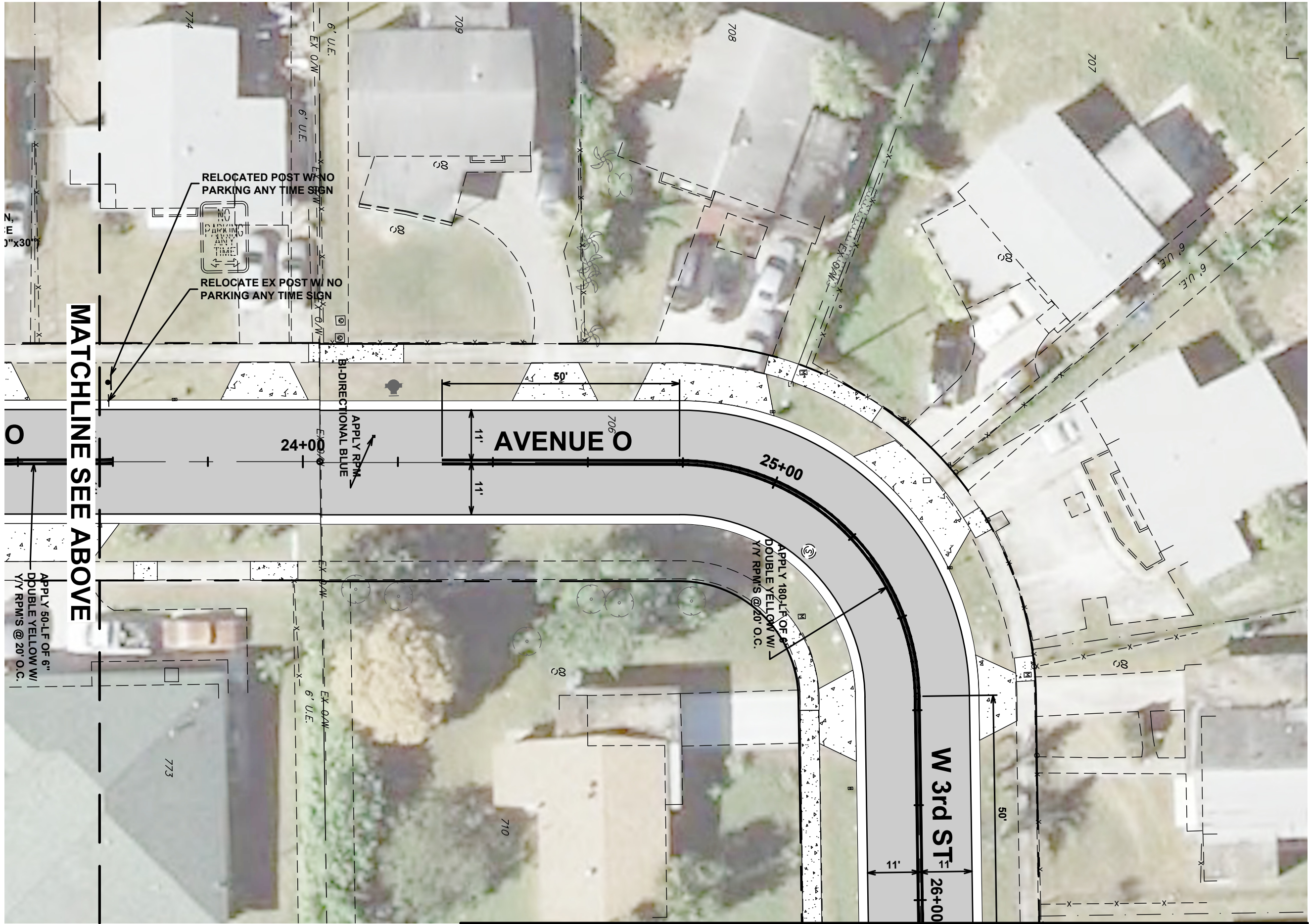
**SIGNING AND
MARKING PLAN**

DRAWING NUMBER
SM-4
34 OF 42



SEE DRAWING NO. SM-4

SEE DRAWING NO. SM-3



SEE DRAWING NO. SM-2

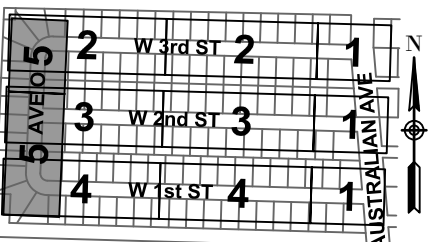
Always call 811 two full business days before you dig to have underground utilities located and marked.



500 Australian Avenue South
Suite 530
West Palm Beach, FL 33401
561.746.6900
www.chenmoore.com
CERTIFICATES OF AUTHORIZATION
EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE: _____

SUB-CONSULTANT



CLIENT



Public Works Department
2391 Avenue "I"
Riviera Beach, Florida 33404

PROJECT INFORMATION

**RIVIERA HEIGHTS
W 1 ST - W 3 ST
NEIGHBORHOOD
IMPROVEMENTS**

CITY OF RIVIERA
BEACH, FLORIDA

PROJECT NUMBER
26-0221.00036

RIVIERA BCH PROJECT NO
608-16

VERIFY SCALES
0" = 1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
02/20/2026

DESIGNED BY
MW

DRAWN BY
TN

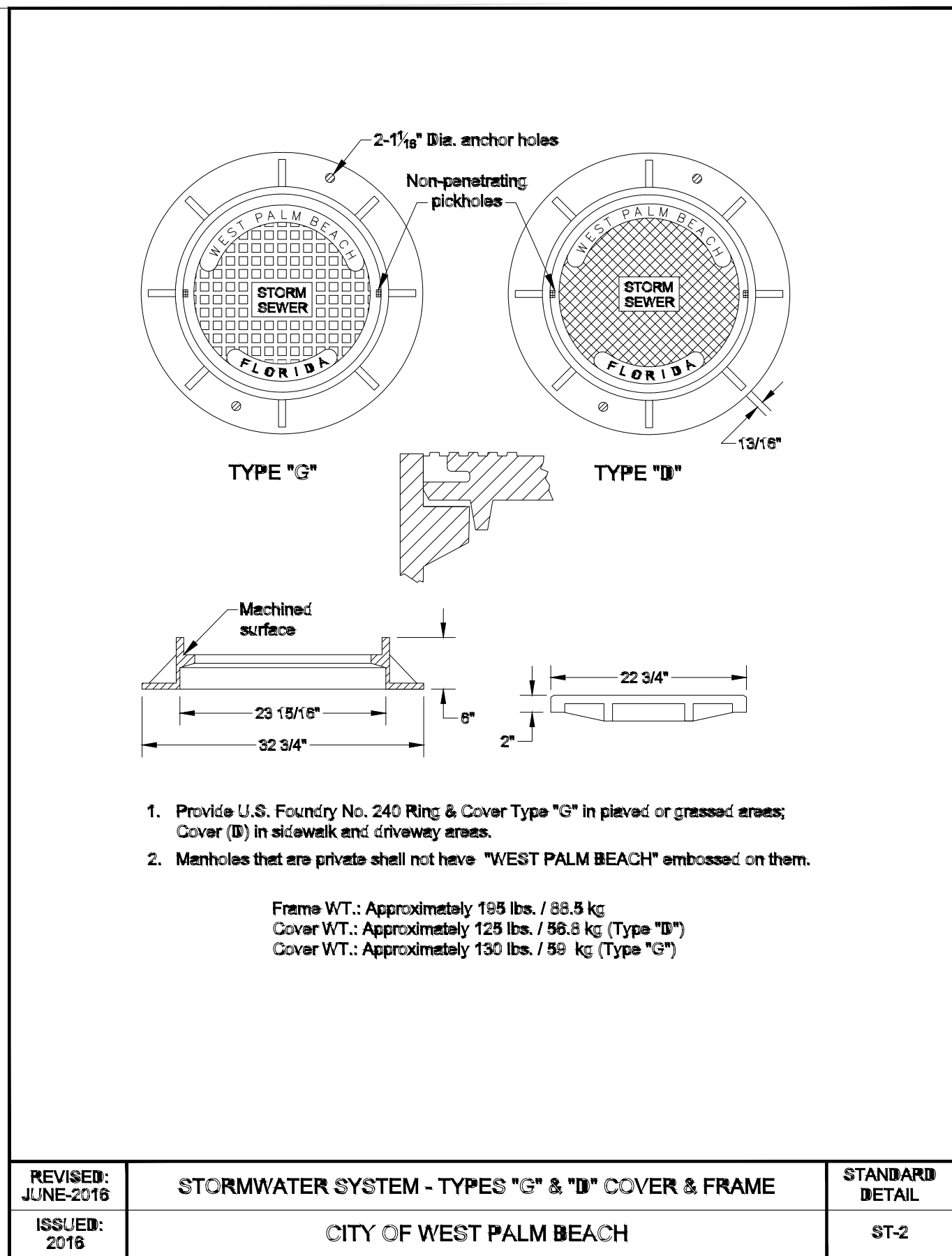
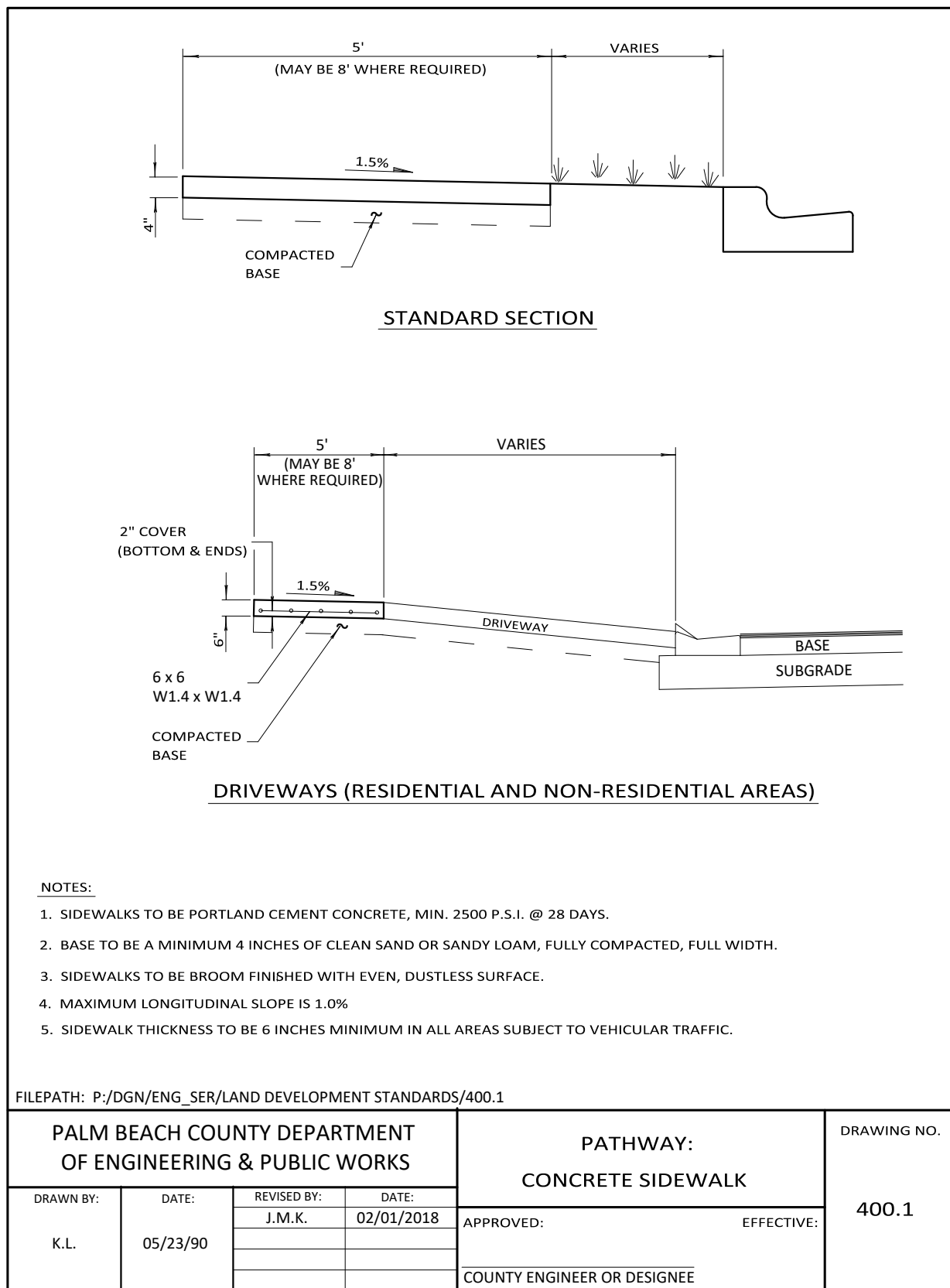
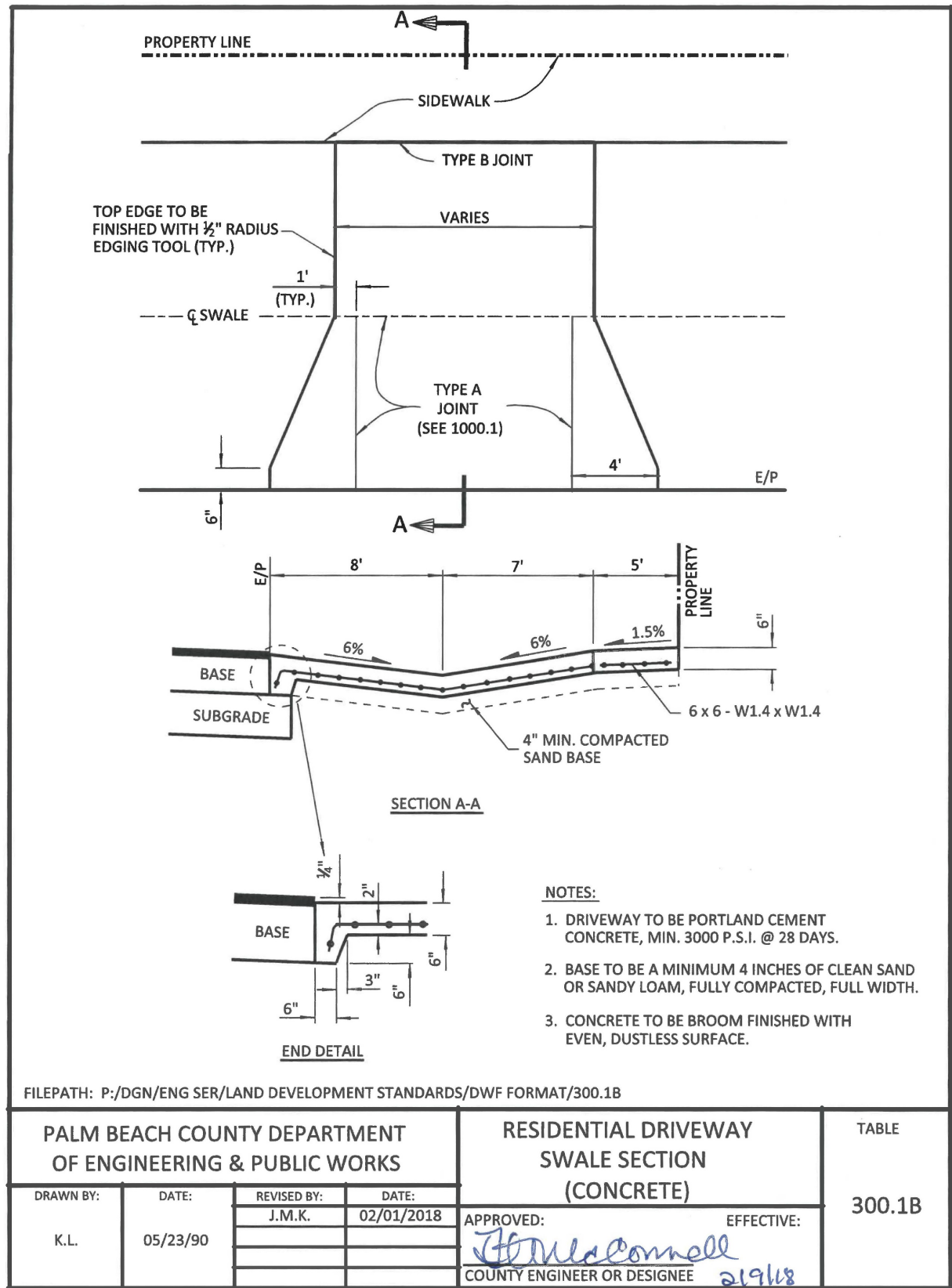
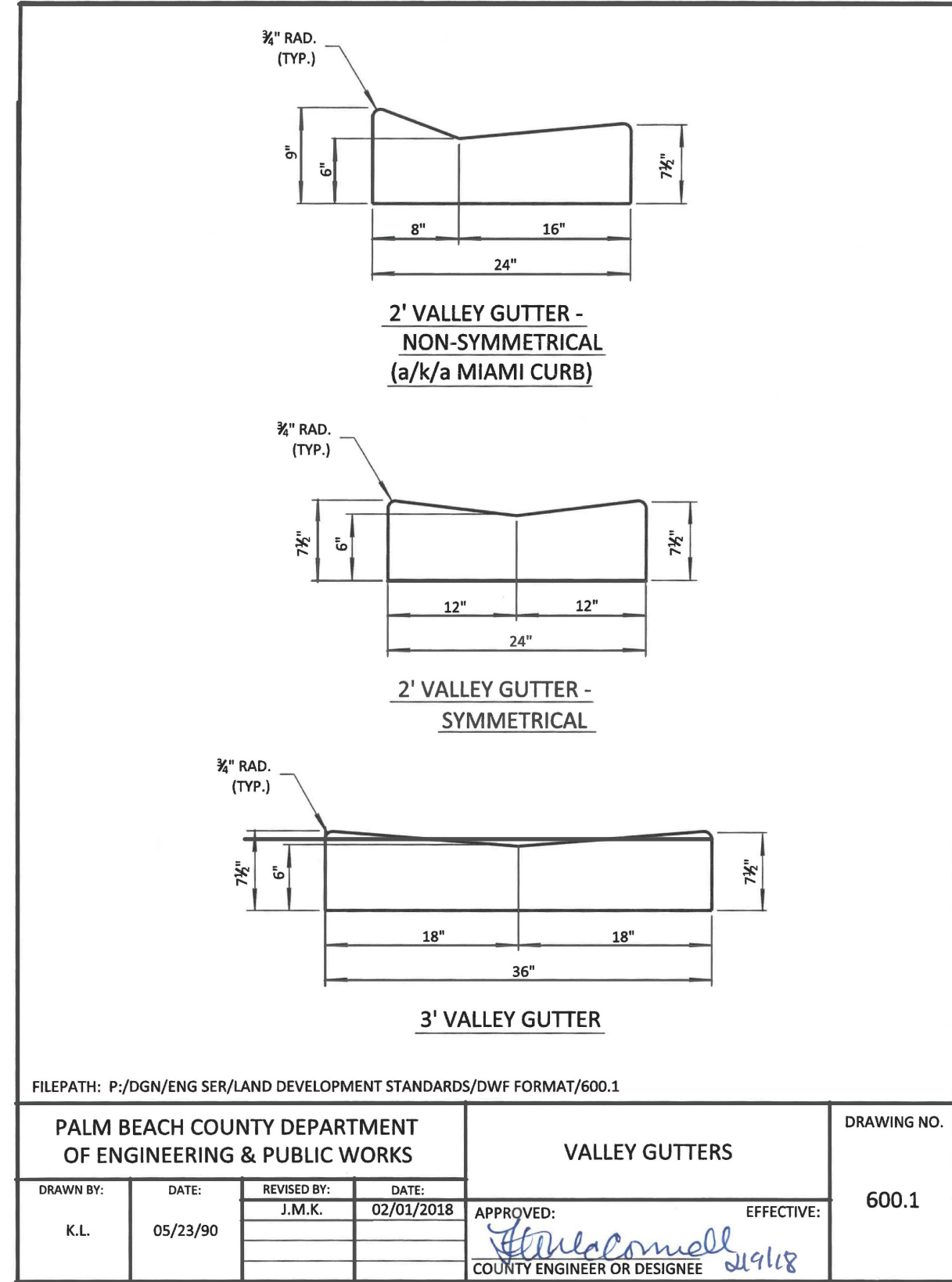
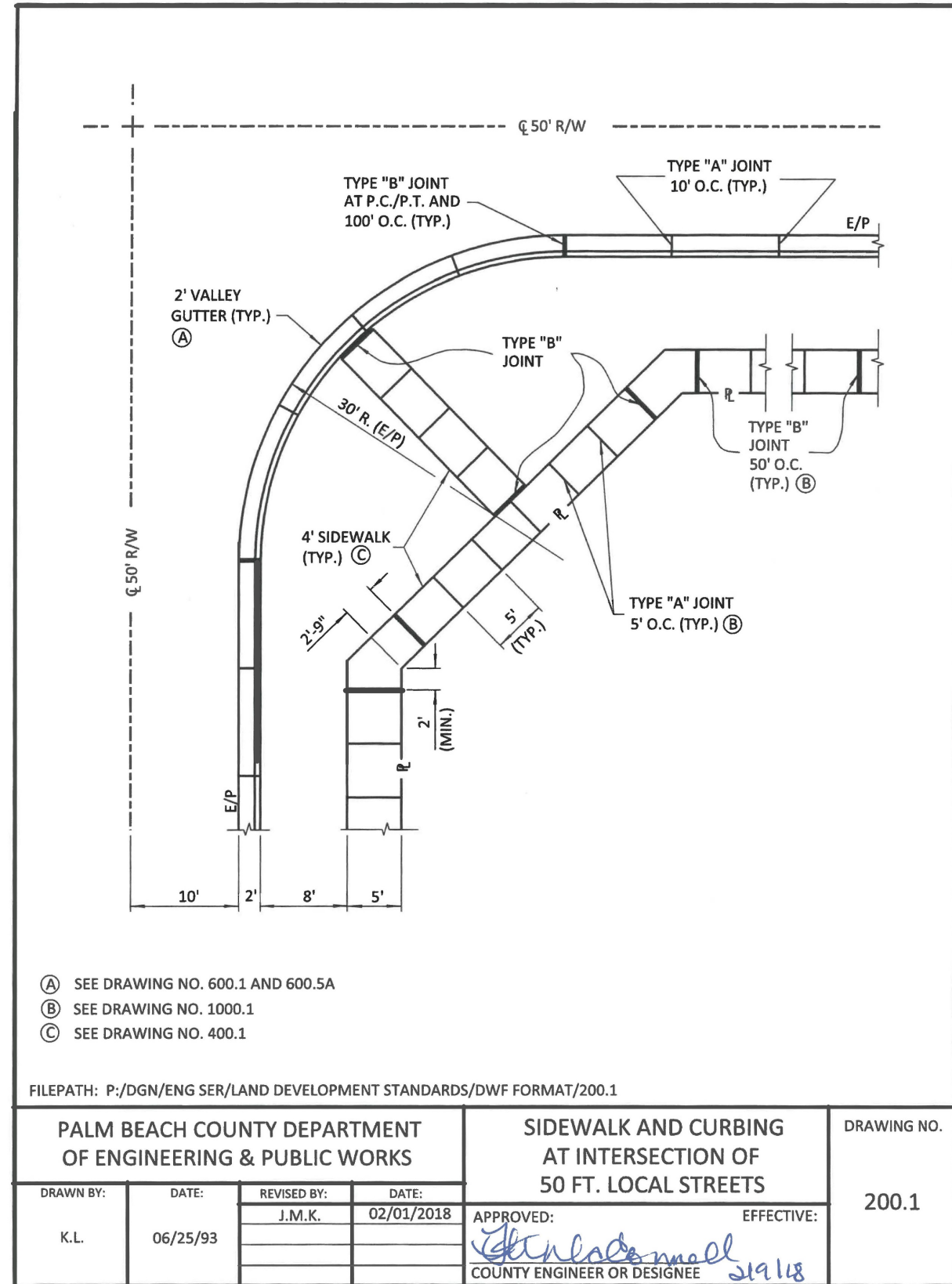
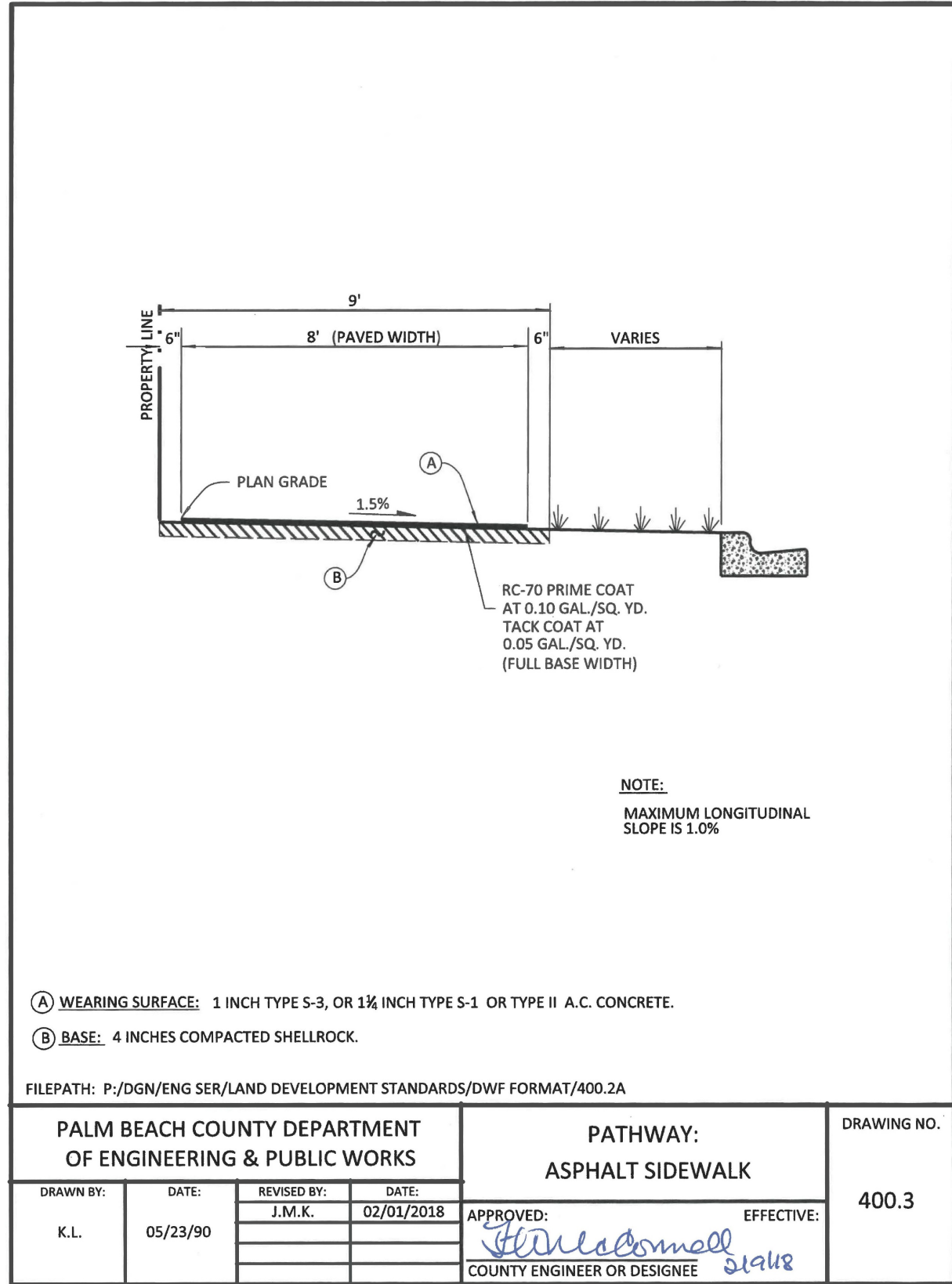
CHECKED BY
SD

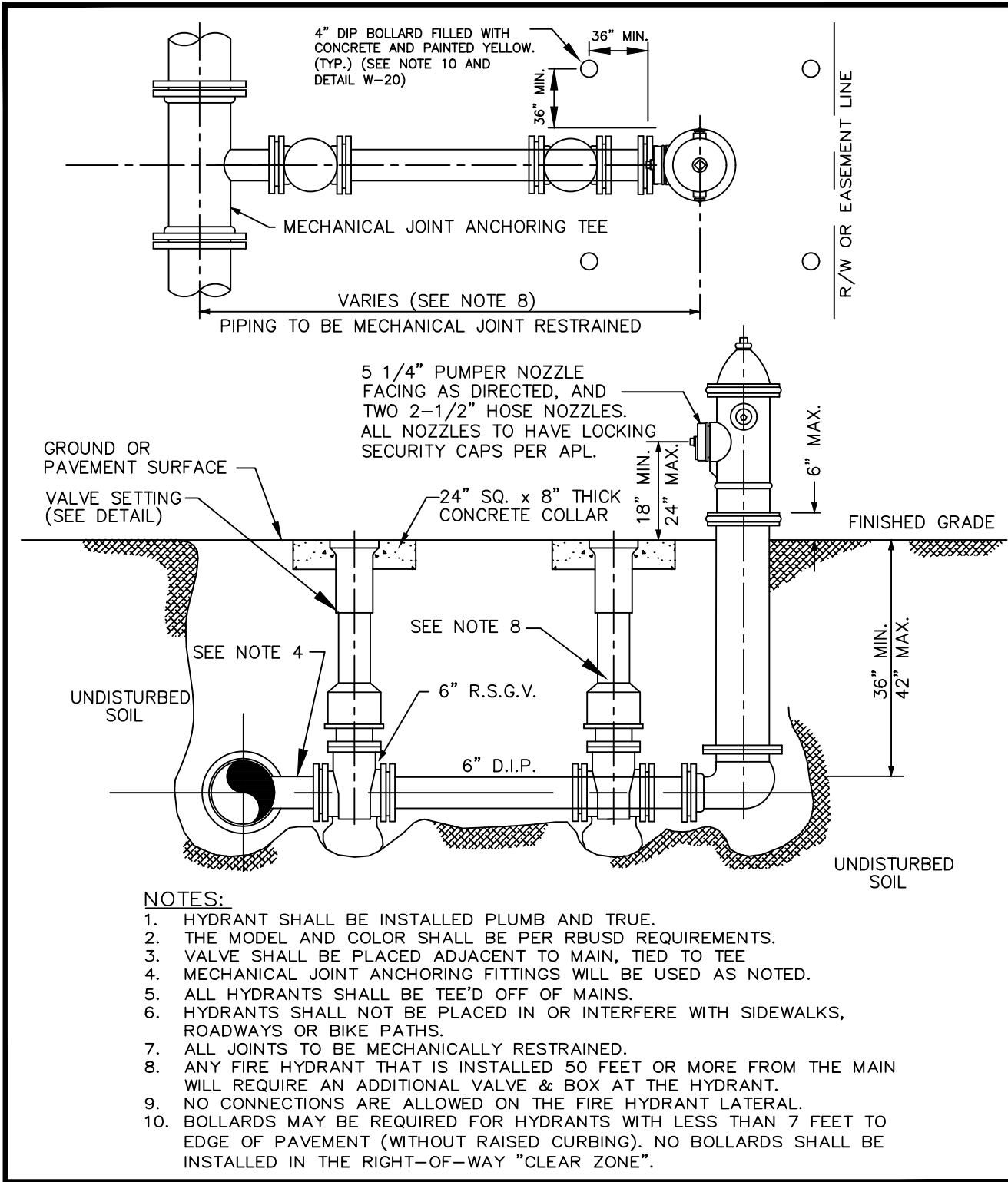
DRAWING TITLE

**SIGNING AND
MARKING PLAN**

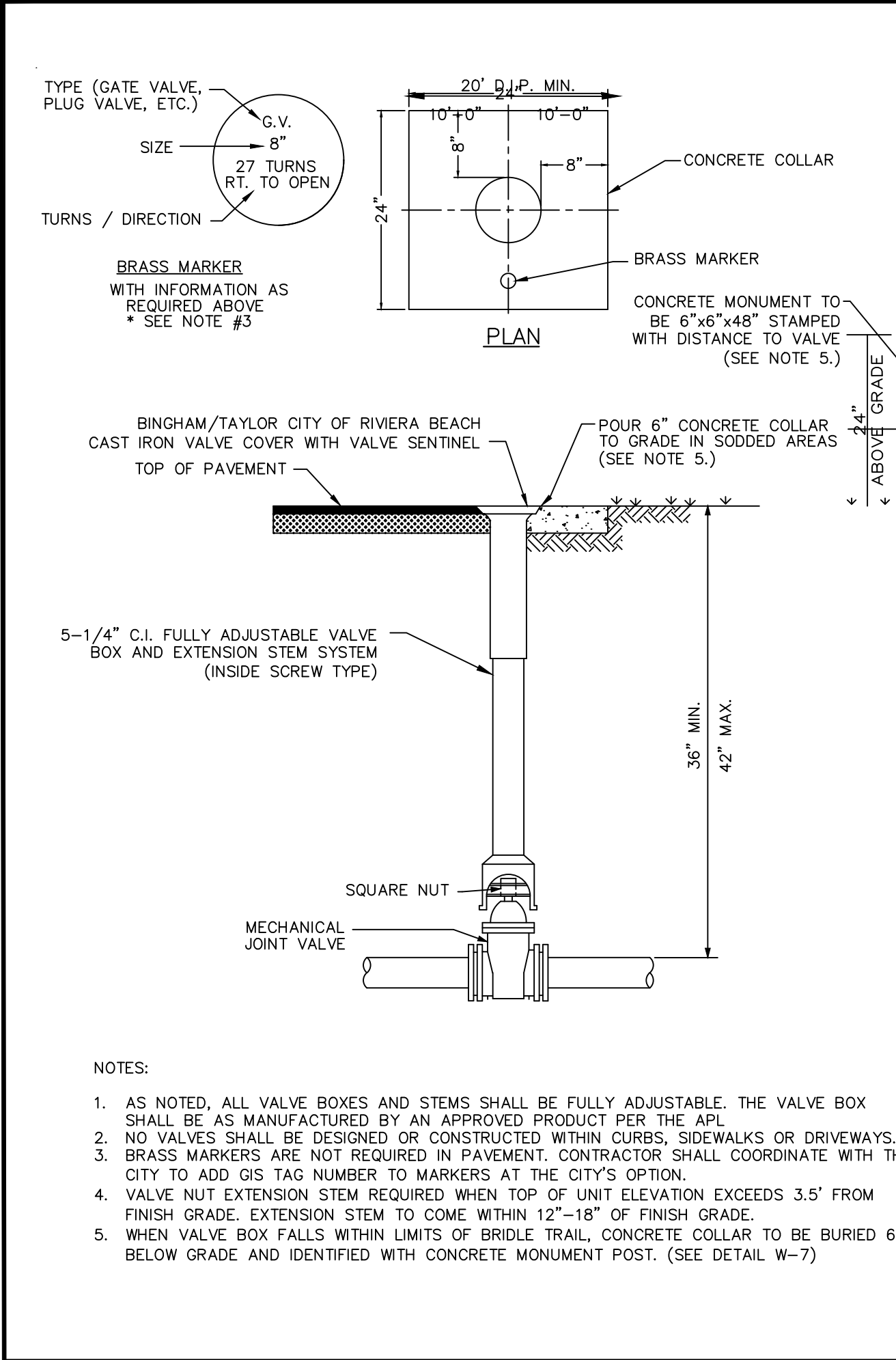
DRAWING NUMBER
SM-5
35 OF 42

100% SUBMITTAL

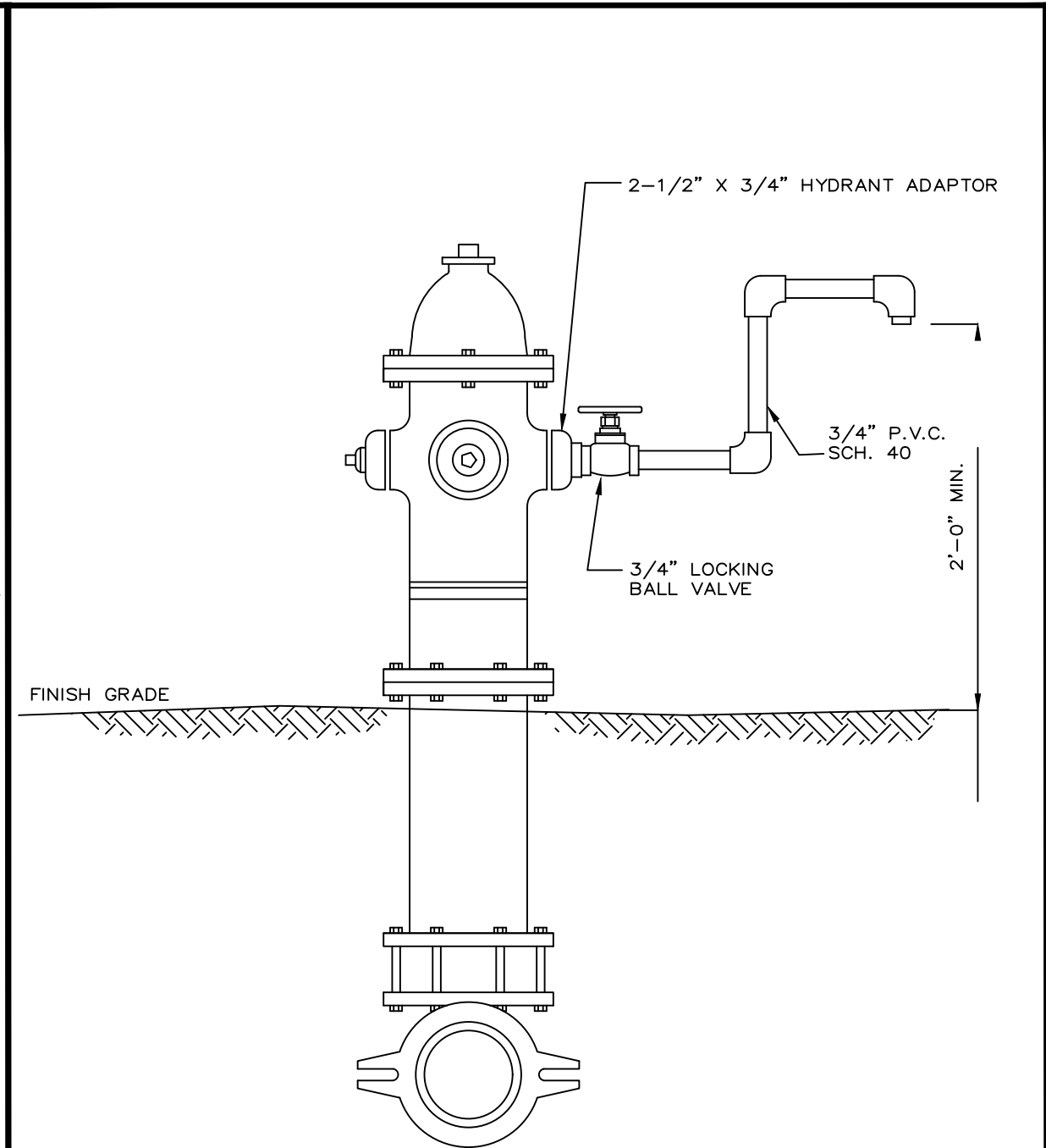




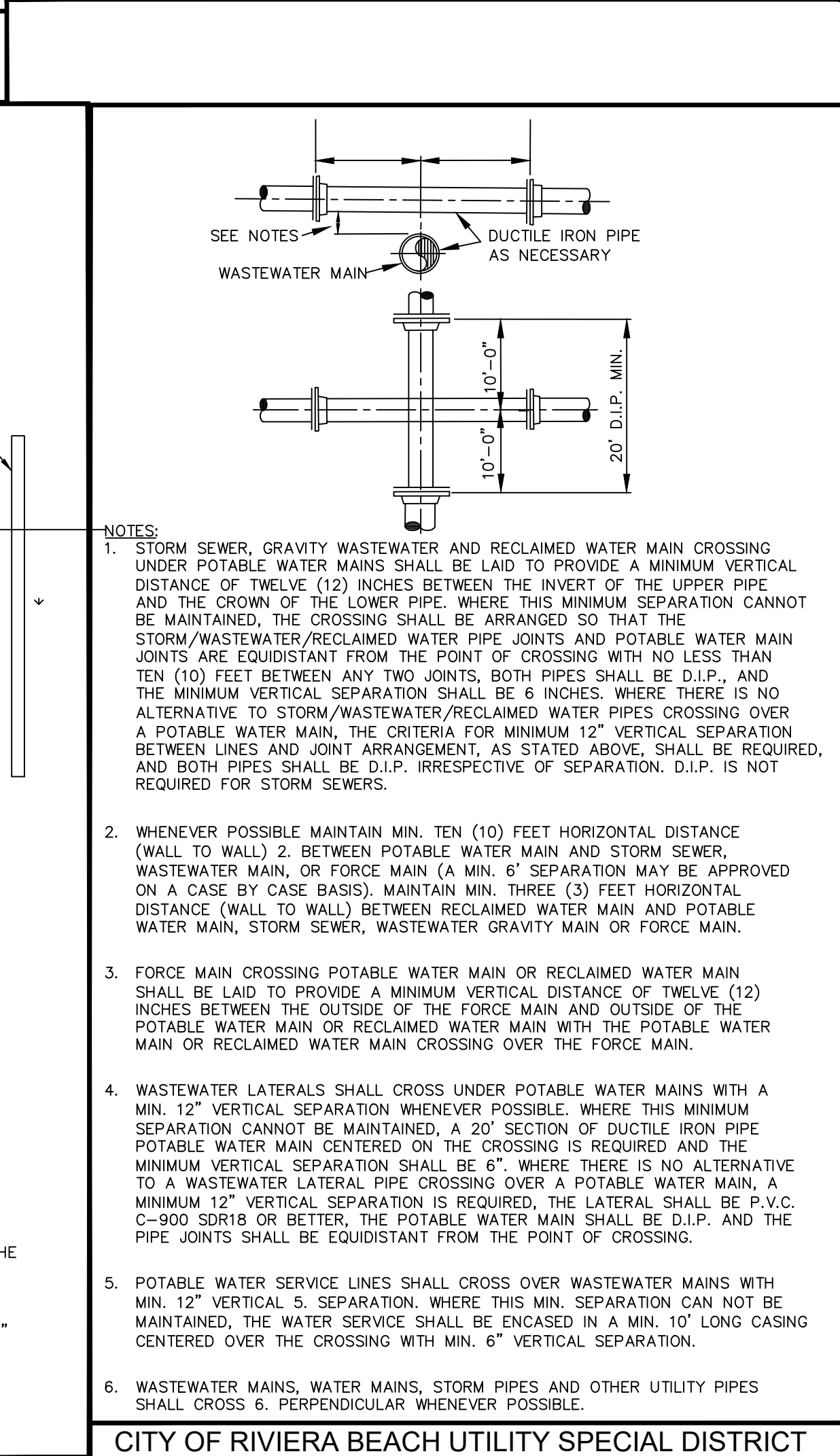
CITY OF RIVIERA BEACH UTILITY SPECIAL DISTRICT
TYPICAL FIRE HYDRANT ASSEMBLY
REVISED: JULY 2023
SHEET W-39



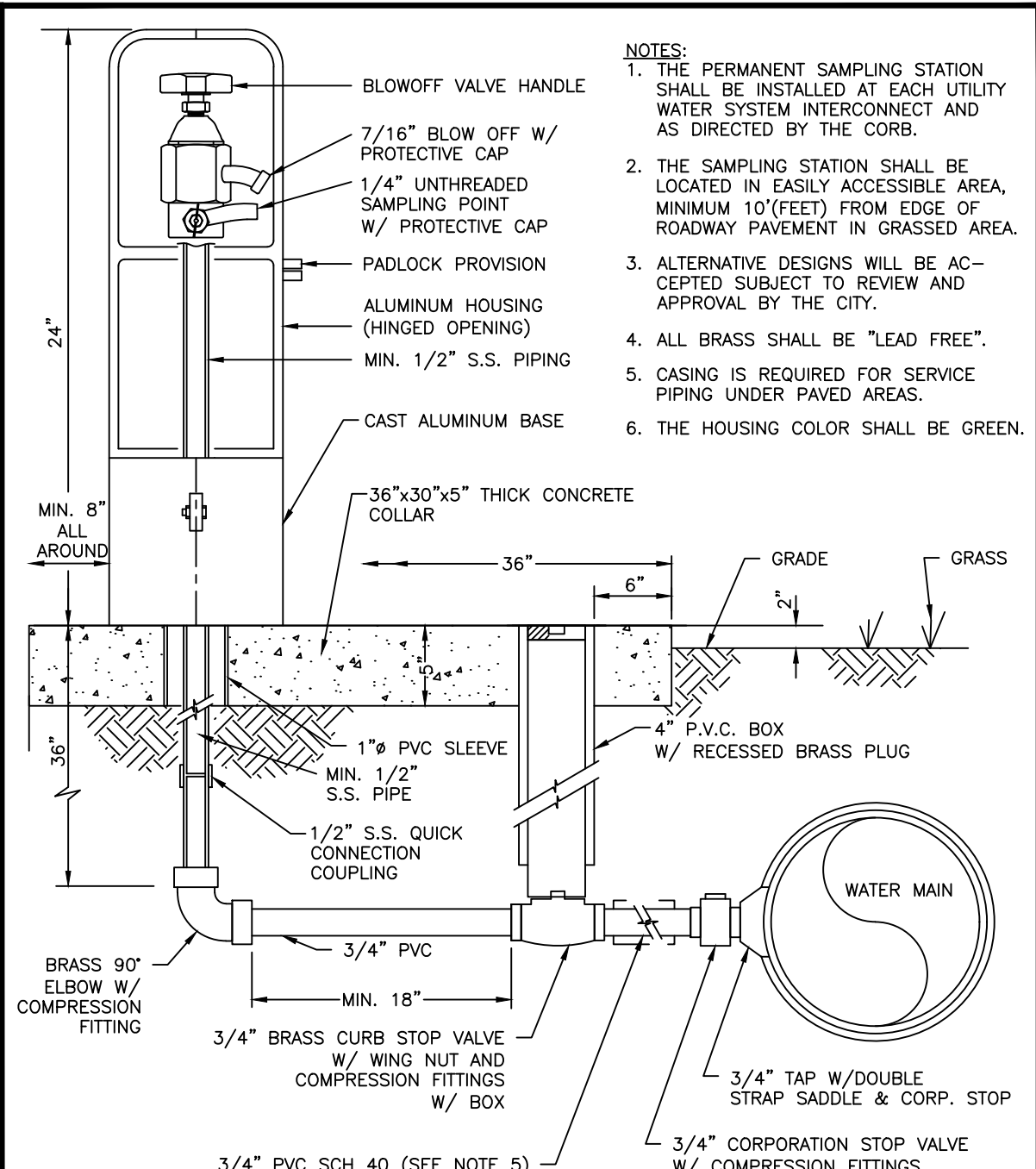
CITY OF RIVIERA BEACH UTILITY SPECIAL DISTRICT
TYPICAL VALVE SETTING
REVISED: JULY 2023
SHEET W-6



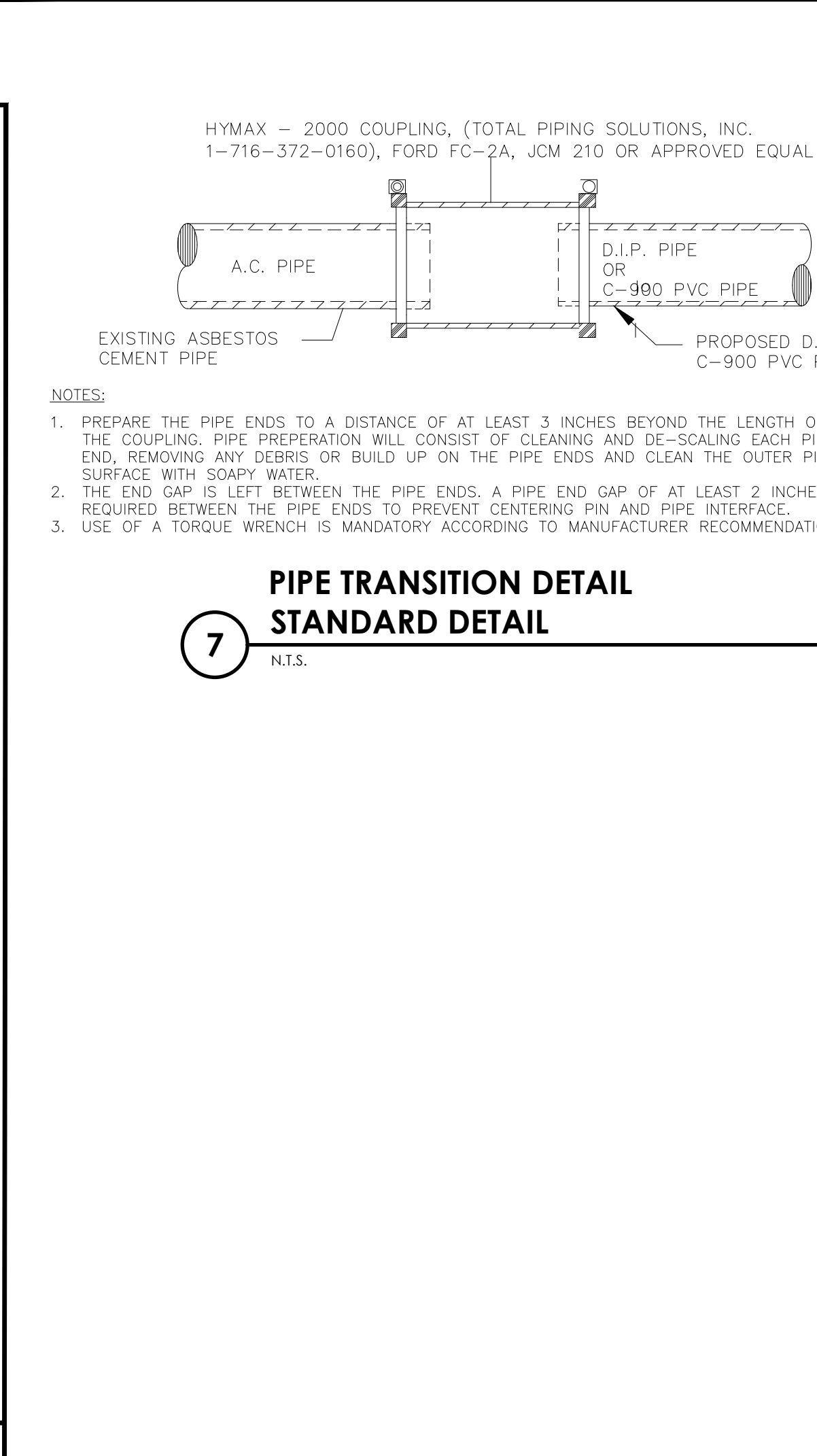
CITY OF RIVIERA BEACH UTILITY SPECIAL DISTRICT
SAMPLING POINT (ON HYDRANT)
REVISED: JULY 2023
SHEET W-35



CITY OF RIVIERA BEACH UTILITY SPECIAL DISTRICT
POTABLE WATER MAIN, WASTEWATER MAIN AND STORM SEWER CROSSING CRITERIA
REVISED: JULY 2023
SHEET W-3



CITY OF RIVIERA BEACH UTILITY SPECIAL DISTRICT
PERMANENT SAMPLING POINT
REVISED: JULY 2023
SHEET W-48



CITY OF RIVIERA BEACH UTILITY SPECIAL DISTRICT
PIPE TRANSITION DETAIL STANDARD DETAIL
REVISED: JULY 2023
SHEET W-48

MIN. LENGTH OF PIPE (FEET) TO BE RESTRAINED
(SOURCES: EBAA IRON RESTRAINT LENGTH CALCULATION PROGRAM FOR PVC PIPE, RELEASE 3.1, AND DIPRA THRUST RESTRAINT FOR DUCTILE IRON PIPE, RELEASE 3.2)

FITTING TYPE	PIPE SIZE												200psi			
	4"	6"	8"	10"	12"	16"	20"	24"	30"	36"	42"	48"	30"	36"	42"	48"
90° HORIZ. BEND	14	20	25	30	35	45	54	62	98	112	124	135				
45° HORIZ. BEND	6	8	11	13	15	19	22	26	41	46	51	56				
22.5° HORIZ. BEND	3	4	5	6	7	9	11	12	19	22	25	27				
11.25° HORIZ. BEND	1	2	3	3	4	4	5	6	10	11	12	13				
90° VERT. OFFSET	UPPER BEND		29	41	53	64	74	95	115	134	214	246	276	304		
	LOWER BEND		7	10	13	16	19	25	30	35	57	66	74	83		
45° VERT. OFFSET	UPPER BEND		12	19	24	29	34	39	48	56	89	102	114	126		
	LOWER BEND		3	4	6	7	8	10	12	15	23	27	31	34		
22.5° VERT. OFFSET	UPPER BEND		6	9	12	14	17	19	23	27	43	49	55	60		
	LOWER BEND		1	2	4	4	4	5	6	7	11	13	15	16		
11.25° VERT. OFFSET	UPPER BEND		3	4	6	7	8	9	11	13	21	24	27	30		
	LOWER BEND		1	1	1	2	2	3	3	6	6	7	8			
PLUG (DEAD END)	32	45	59	70	83	107	129	151	214	246	276	304				
IN-LINE VALVE	32	45	45	45	45	55	65	80	110	125	140	155				
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	-	-	-	-	-	-	-	-	-
	20"X ø	1	21	38	52	65	88	109	-	-	-	-	-	-	-	-
	24"X ø	1	16	34	49	62	86	108	129	-	-	-	-	-	-	-
	30"X ø	1	8	28	44	58	83	106	127	208	-	-	-	-	-	-
	36"X ø	1	1	22	39	54	80	103	124	206	240	-	-	-	-	-
REDUCER (LARGER PIPE RESTRAINT)	42"X ø	1	1	15	33	49	77	100	122	205	239	270	-	-	-	-
	48"X ø	1	1	7	27	44	73	97	120	203	238	269	298	-	-	-
	6"X ø	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8"X ø	38	25	-	-	-	-	-	-	-	-	-	-	-	-	-
	10"X ø	57	43	24	-	-	-	-	-	-	-	-	-	-	-	-
	12"X ø	72	60	44	41	-	-	-	-	-	-	-	-	-	-	-
	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	-	-	-	-	-	-	-	-
	30"X ø	209	204	197	188	177	153	116	75	-	-	-	-	-	-	-
200psi	36"X ø	243	236	233	226	217	196	168	135	74	-	-	-	-	-	-
	42"X ø	273	270	265	259	252	234	211	183	133	72	-	-	-	-	-
	48"X ø	301	298	294	289	283	268	249	226	183	131	71	-	-	-	-

NOTES:
1. THE DATA IN THE ABOVE TABLE ARE BASED UPON THE FOLLOWING INSTALLATION CONDITIONS:
SOIL TYPE-SAND TEST PRESSURE-150 PSI/200 PSI DEPTH OF BURY-3'
TRENCH TYPE-3 SAFETY FACTOR- 1.5 VERTICAL OFFSET-3'
MINIMUM PIPE LENGTH ALONG TEE RUN-5'
2. THE RESTRAINED PIPE LENGTHS APPLY TO DUCTILE IRON AND PVC PIPE.
3. ALL JOINTS BETWEEN UPPER AND LOWER BENDS SHALL BE RESTRAINED.
4. RESTRAINED PIPE LENGTHS APPLY TO PIPE ON BOTH SIDES OF VALVES AND FITTINGS.
5. MULTIPLY PIPE LENGTH BY 1.4 FOR POLYETHYLENE ENCASED PIPE.

MECHANICAL THRUST RESTRAINT MINIMUM PIPE LENGTHS STANDARD DETAIL

N.T.S.

Always call 811 two full business days before you dig to have underground utilities located and marked.



100% SUBMITTAL

cma
chen moore and associates

500 Australian Avenue South
Suite 530
West Palm Beach, FL 33401
561.746.6900
www.chenmoore.com
CERTIFICATES OF AUTHORIZATION
EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE:

CLIENT



Public Works Department
2391 Avenue "I"
Riviera Beach, Florida 33404

PROJECT INFORMATION

**RIVIERA HEIGHTS
W 1 ST - W 3 ST
NEIGHBORHOOD
IMPROVEMENTS**

CITY OF RIVIERA
BEACH, FLORIDA

PROJECT NUMBER
26-0221.00036

RIVIERA BCH PROJECT NO
608-16

VERIFY SCALES
0"=1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
02/20/2026

DESIGNED BY
MW

DRAWN BY
TN

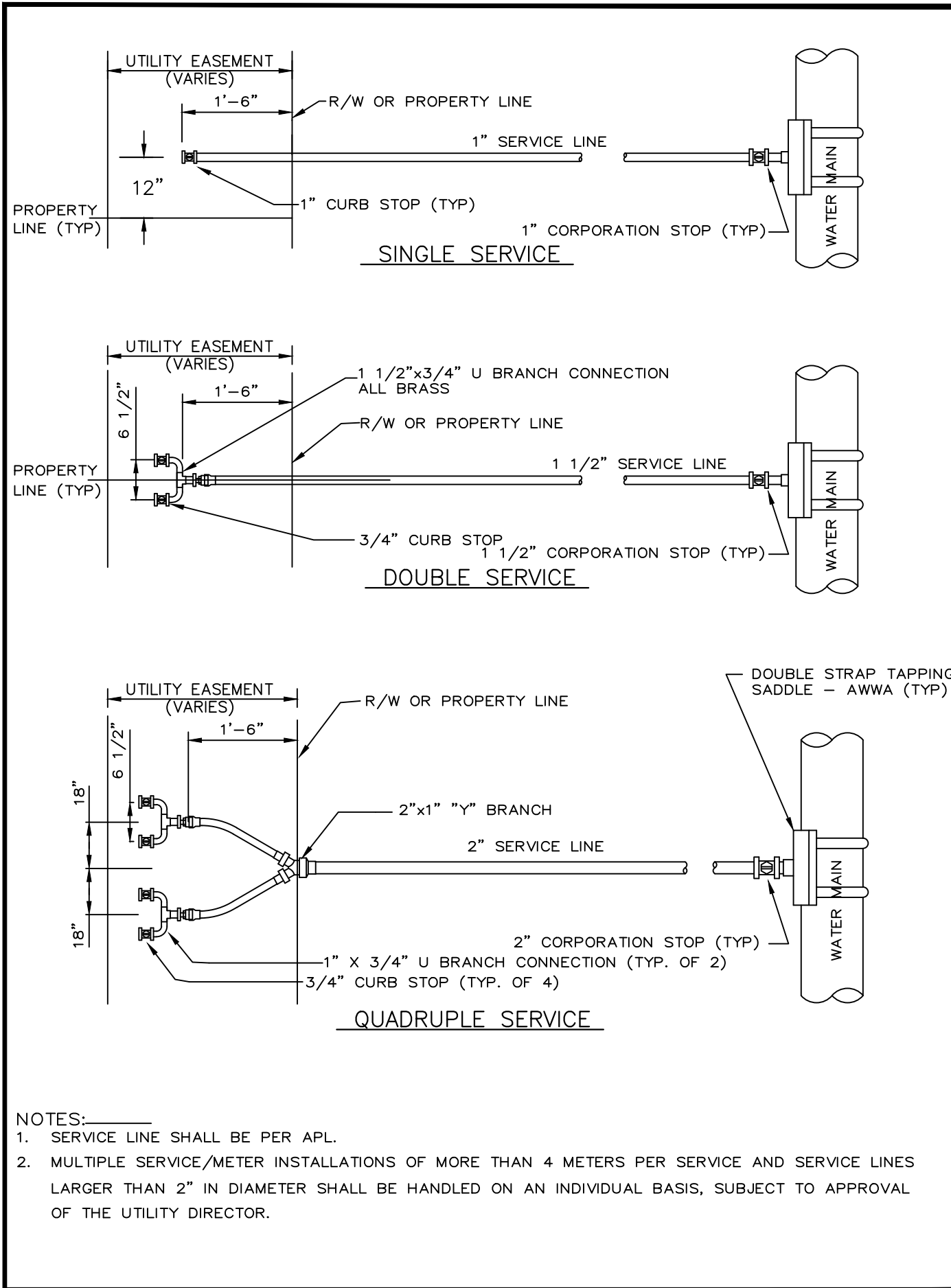
CHECKED BY
SD

DRAWING TITLE

DETAILS

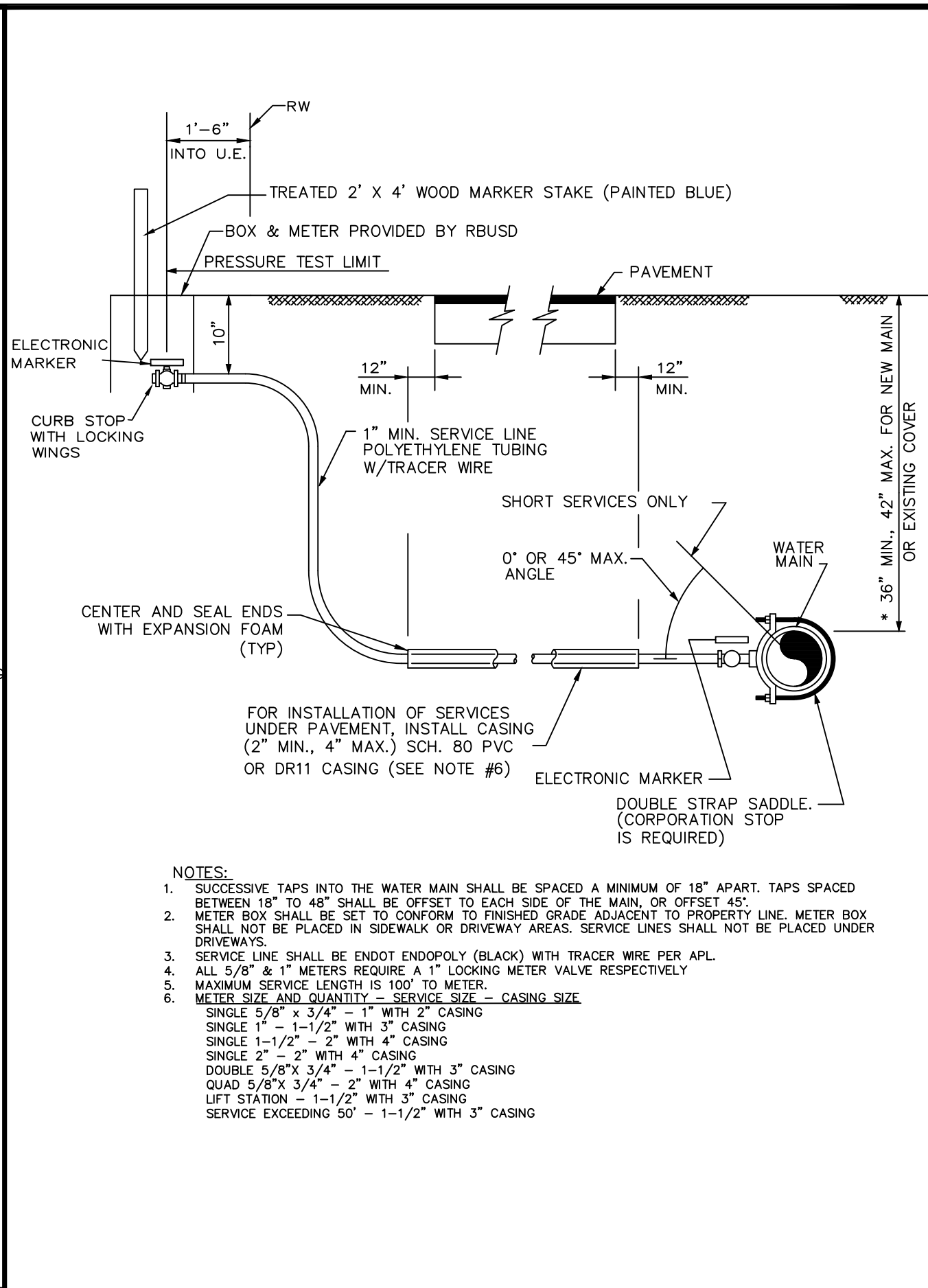
DRAWING NUMBER
DT-3
38 OF 42

Plot Date: 3/10/2026 10:45:09 AM Username: nwasiko Layout Name: DT-4
Folder Path: V:\Projects\2026\26-0221.00036 - w 1st street - w 3rd street plan updates\Design\CAD\Sheets
Filename: 15-221.001-RivHghts8-10 Details.dwg



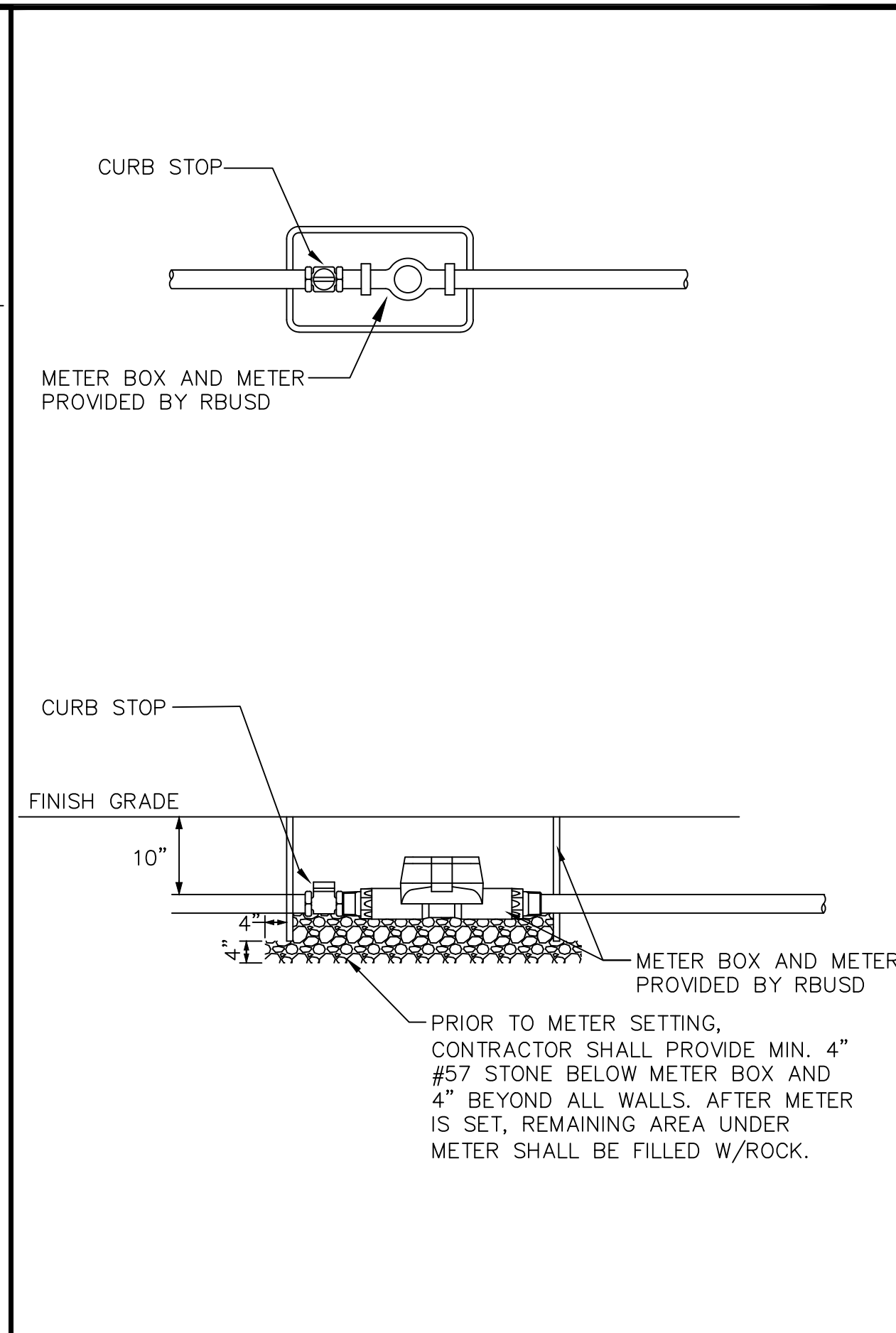
CITY OF RIVIERA BEACH UTILITY SPECIAL DISTRICT

 **TYPICAL SINGLE SERVICE AND MULTIPLE SERVICES (TWO OR MORE)**  SHEET **W-25**
REVISED: JULY 2023



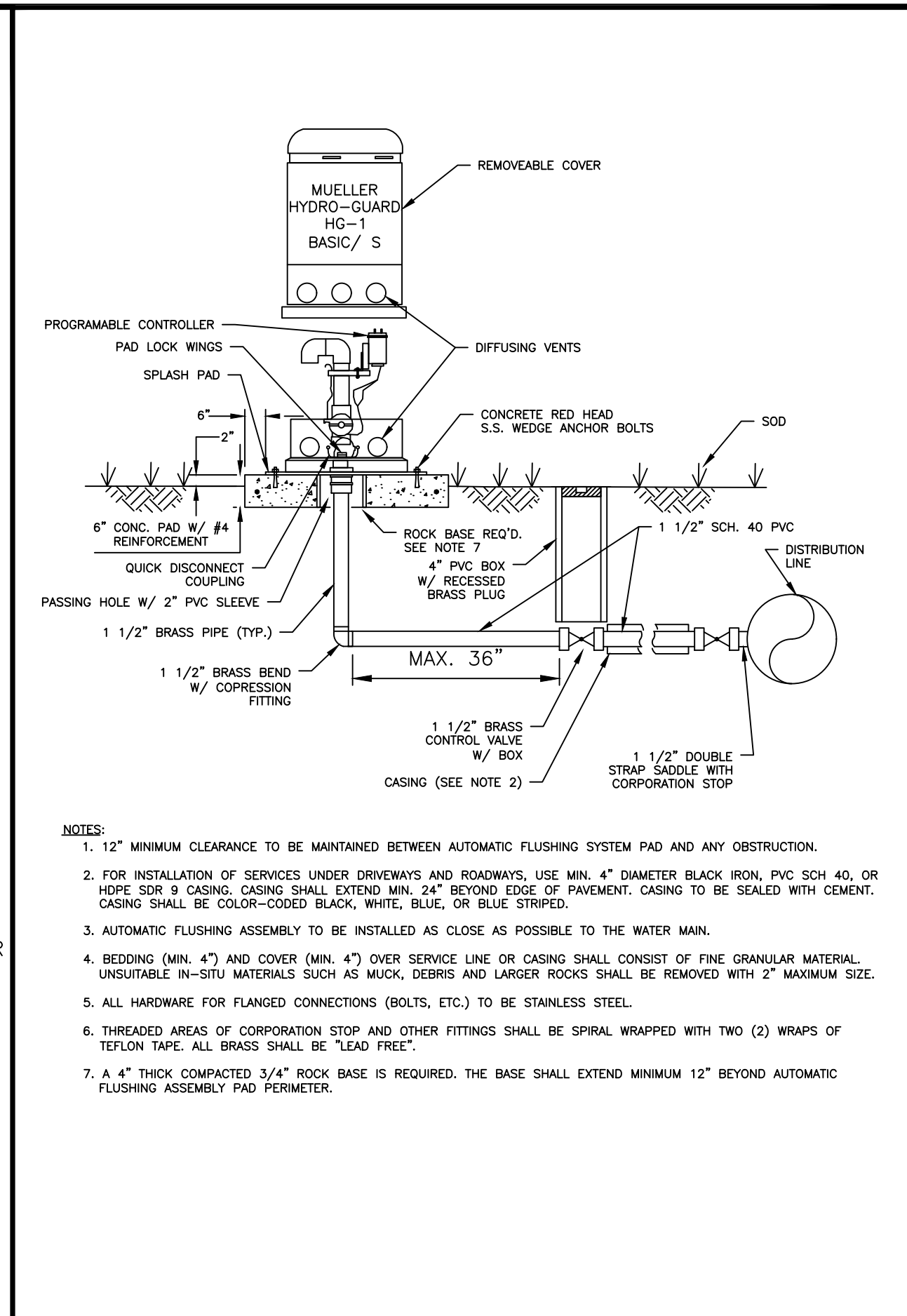
CITY OF RIVIERA BEACH UTILITY SPECIAL DISTRICT

 **TYPICAL SERVICE CONNECTION (UNDERGROUND) FOR 5/8", 1" OR 2" METER**  SHEET **W-24**
REVISED: JULY 2023

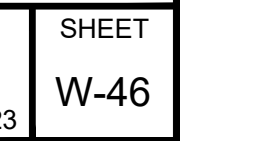


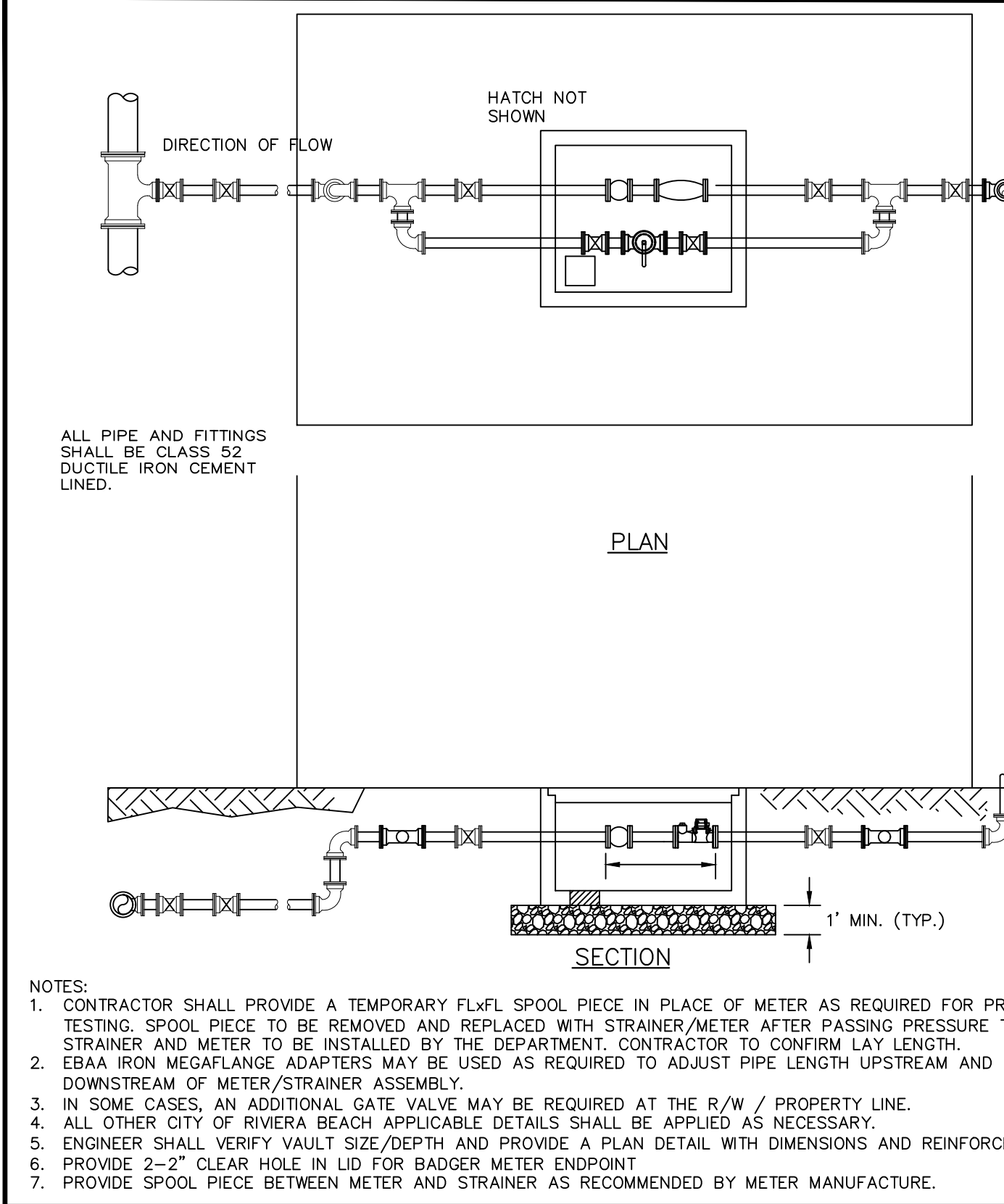
CITY OF RIVIERA BEACH UTILITY SPECIAL DISTRICT

 **METER AND METER BOX INSTALLATION**  SHEET **W-28**
REVISED: JULY 2023

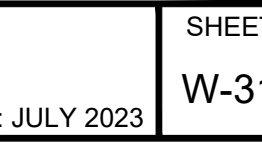


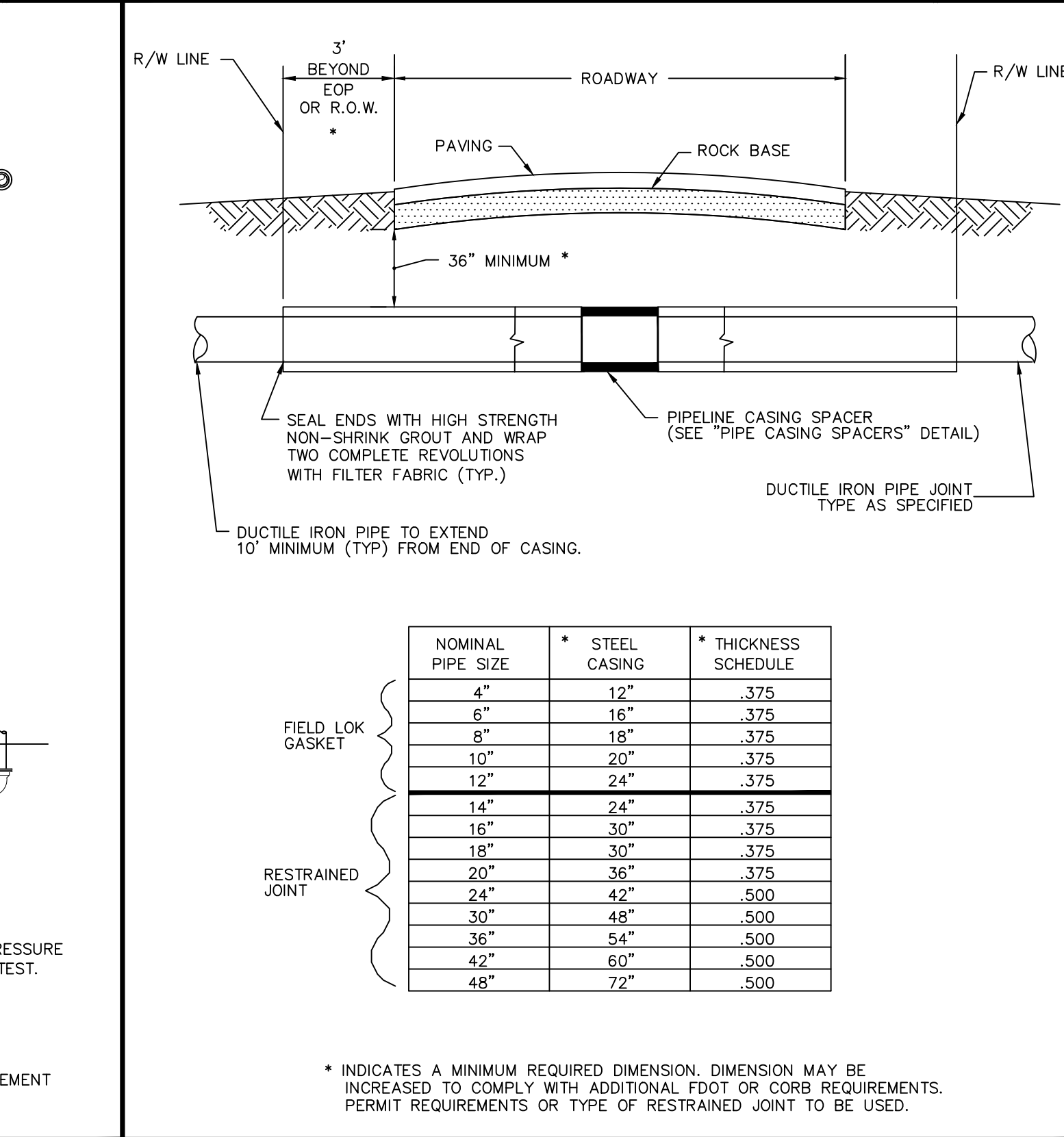
CITY OF RIVIERA BEACH UTILITY SPECIAL DISTRICT

 **AUTOMATIC FLUSHING ASSEMBLY (TYPE A)**  SHEET **W-46**
REVISED: JULY 2023

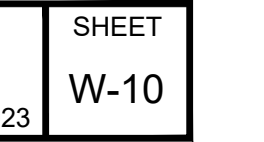


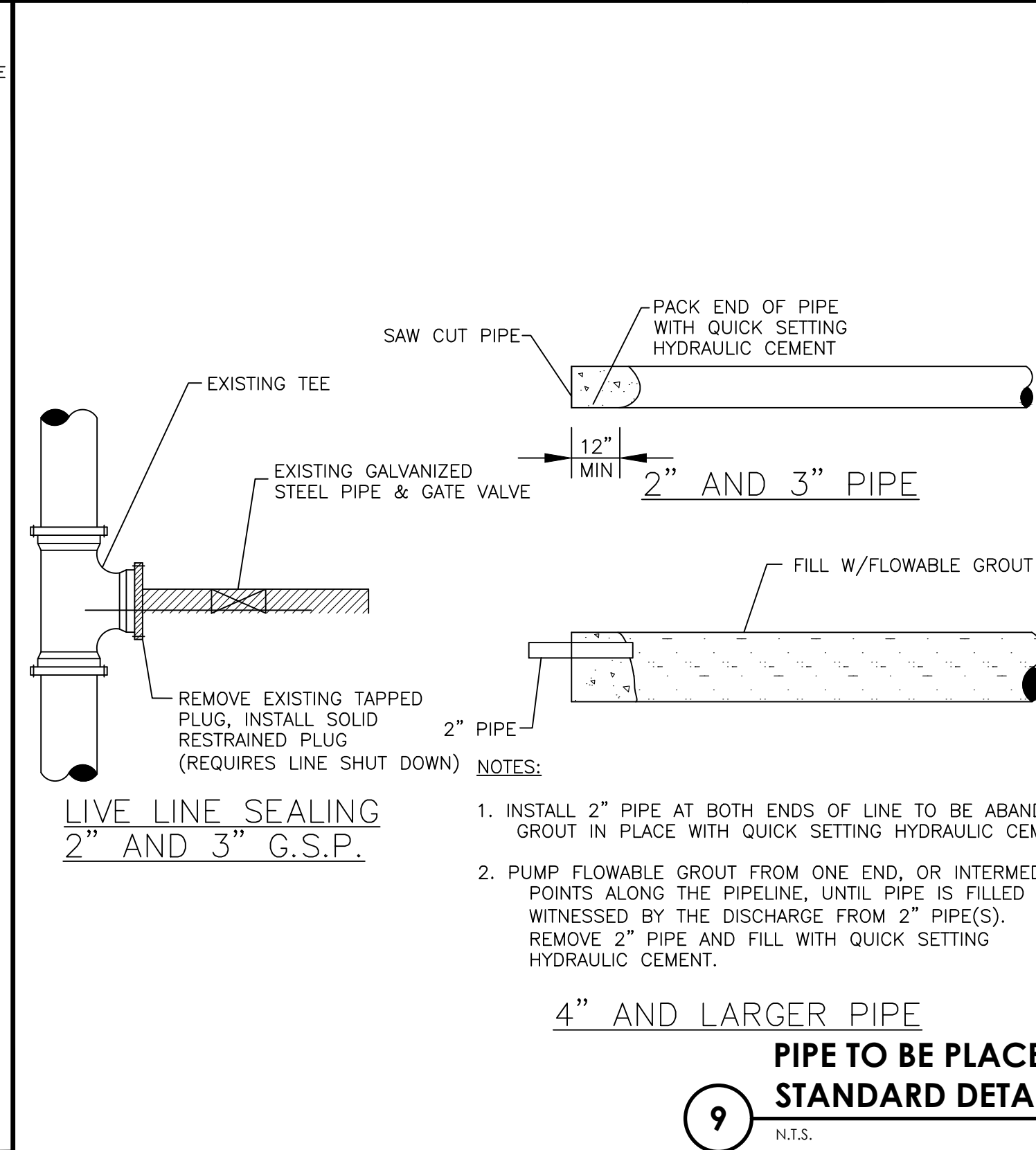
CITY OF RIVIERA BEACH UTILITY SPECIAL DISTRICT

 **4" UNDERGROUND METER AND BY-PASS PIPING**  SHEET **W-31**
REVISED: JULY 2023



CITY OF RIVIERA BEACH UTILITY SPECIAL DISTRICT

 **CASING INSTALLATION DETAIL**  SHEET **W-10**
REVISED: JULY 2023



4" AND LARGER PIPE

PIPE TO BE PLACED OUT OF SERVICE
STANDARD DETAIL

9
N.T.S.

Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com

100% SUBMITTAL

cma
chen moore and associates

500 Australian Avenue South
Suite 530
West Palm Beach, FL 33401
561.746.6900

www.chenmoore.com
CERTIFICATES OF AUTHORIZATION
EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE: _____

CLIENT



Public Works Department
2391 Avenue "I"
Riviera Beach, Florida 33404

PROJECT INFORMATION

**RIVIERA HEIGHTS
W 1 ST - W 3 ST
NEIGHBORHOOD
IMPROVEMENTS**

CITY OF RIVIERA
BEACH, FLORIDA

PROJECT NUMBER
26-0221.00036

RIVIERA BCH PROJECT NO
608-16

VERIFY SCALES

0" = 1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
02/20/2026

DESIGNED BY
MW

DRAWN BY
TN

CHECKED BY
SD

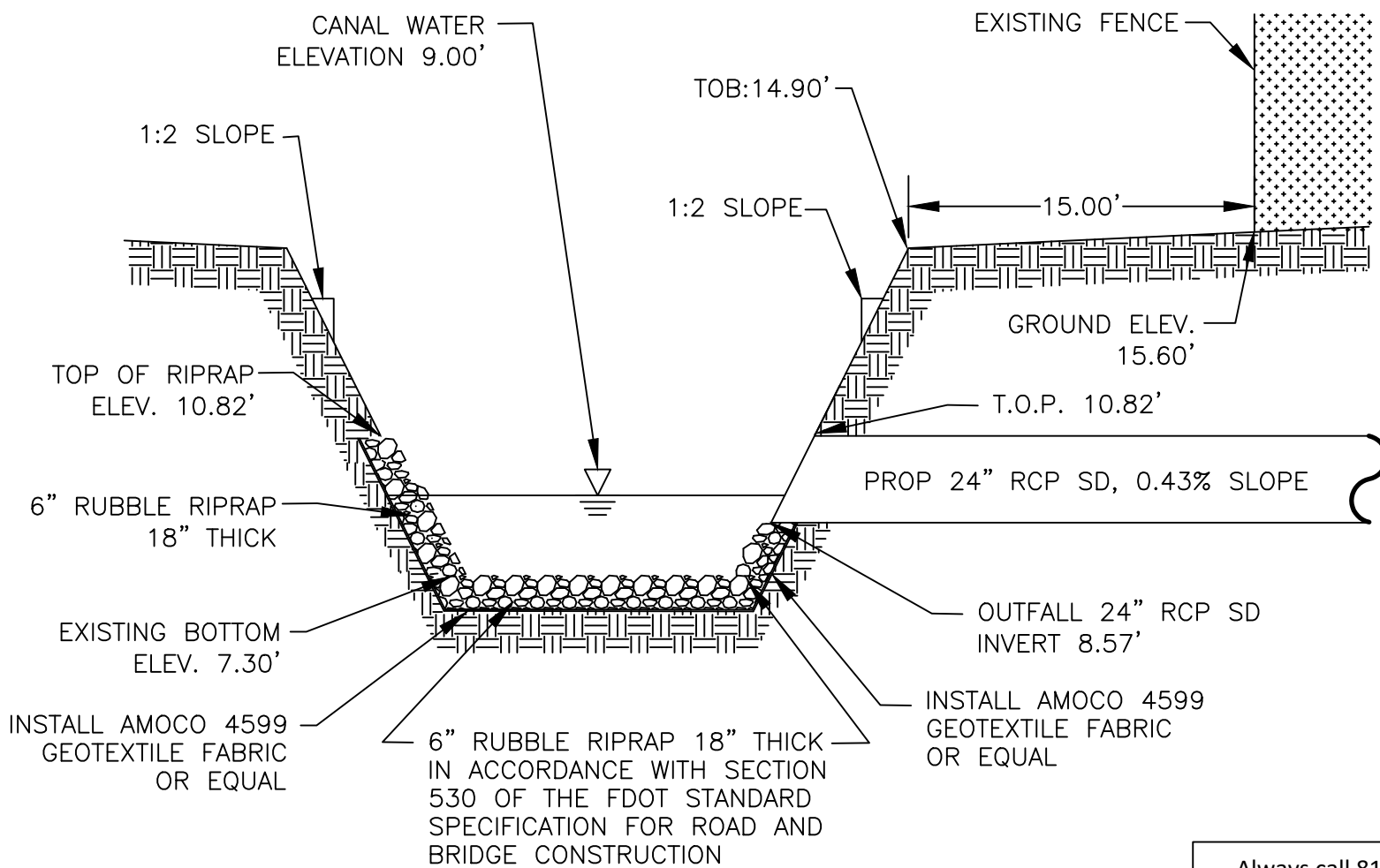
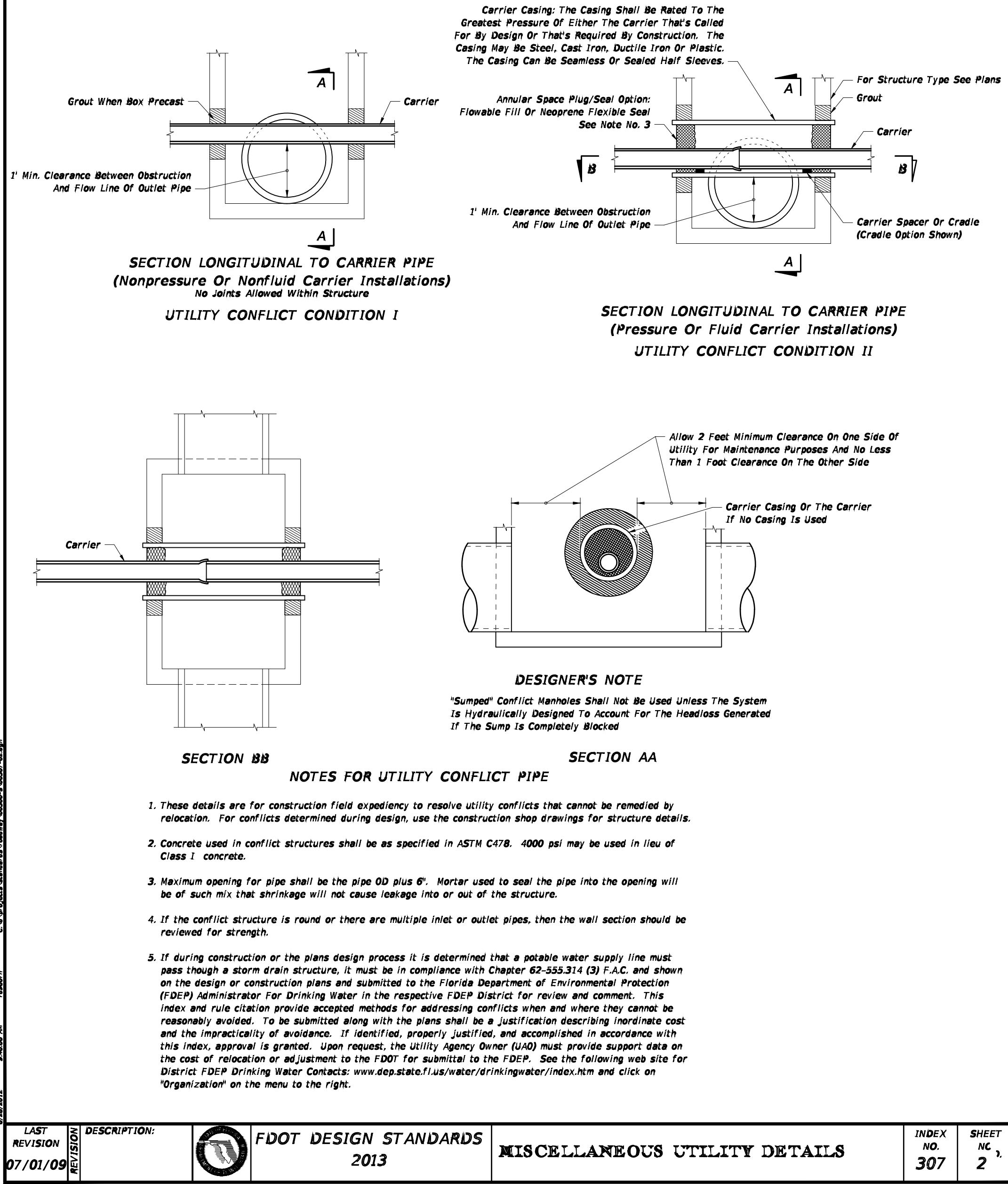
DRAWING TITLE

DETAILS

DRAWING NUMBER

DT-4
39 OF 42

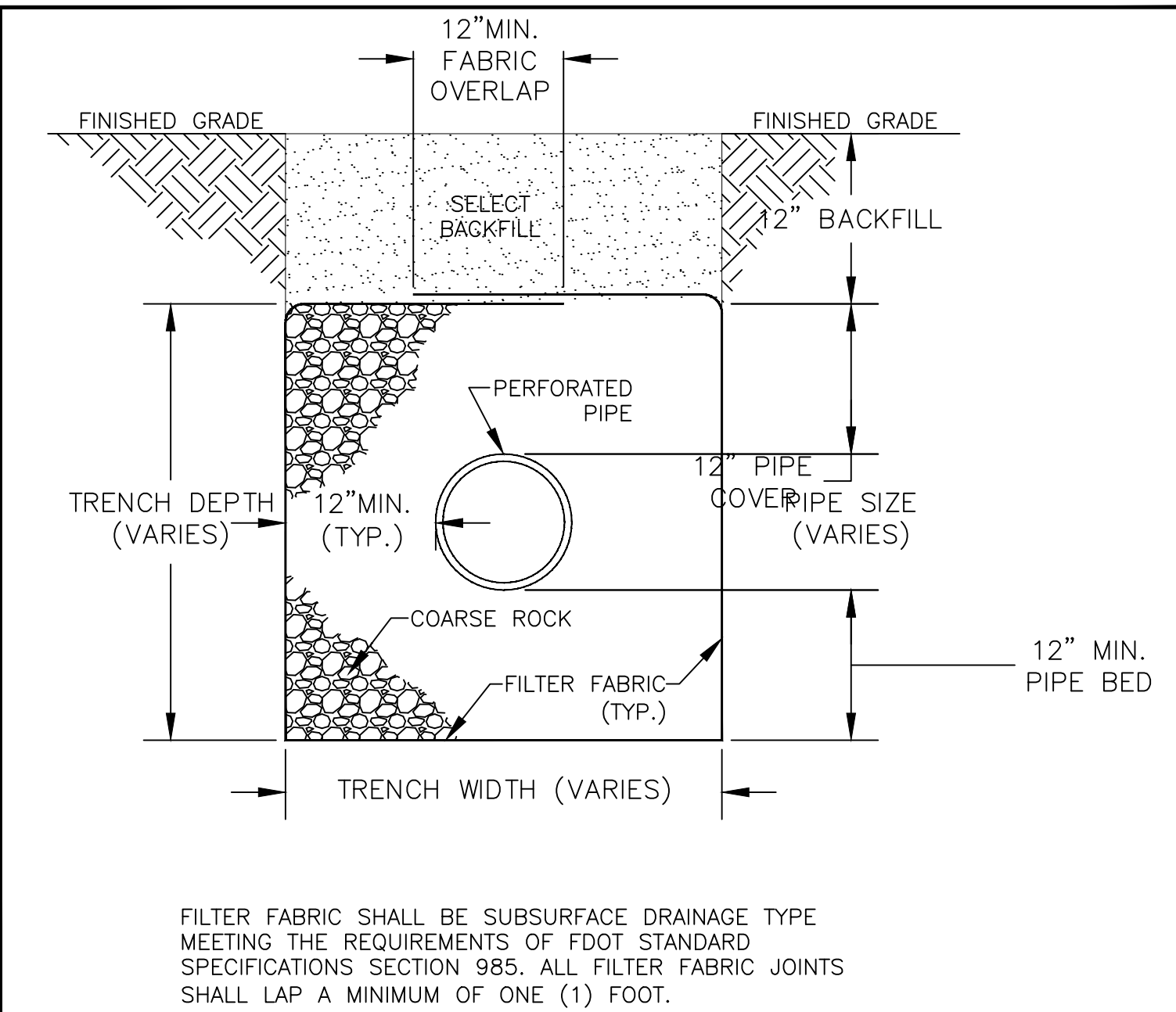
SUMMARY OF STORM DRAIN STRUCTURES						
STRUCTURE NO.	TYPE, SIZE	STATION, OFFSET	RIM EL.	SUMP EL.	PIPE	INVERT EL.
S-1	CATCH BASIN, TYPE 'C'	33+87.49, 12.00 L	15.32	9.61	18" RCP	11.11 (S)
S-2	MANHOLE, 48"Ø	33+87.49, 0.00	15.54	9.09	18" RCP 18" RCP 18" RCP	11.09 (N) 11.09 (S) 11.11 (W) (PRB)
S-3	CATCH BASIN, TYPE 'C'	33+87.49, 12.00 R	15.32	9.61	18" RCP	11.11 (N)
S-4	MANHOLE, 48"Ø	31+09.52, 0.00	16.31	9.61	18" RCP 18" RCP	11.11 (E) (PRB) 11.26 (W) (PRB)
S-5	MANHOLE, 48"Ø	28+31.55, 0.00	15.47	8.40	18" RCP 18" RCP 18" RCP 18" RCP	11.26 (E) (PRB) 10.40 (W) (PRB) 11.02 (N) 11.02 (S)
S-6	MANHOLE, 48"Ø	25+41.55, 0.00	14.61	8.16	18" RCP 18" RCP 18" RCP 18" RCP	10.40 (E) (PRB) 10.16 (N) 10.16 (S) 10.40 (SW)
S-7	CATCH BASIN, TYPE 'C'	28+31.55, 12.00 L	15.25	9.54	18" RCP	11.04 (S)
S-8	CATCH BASIN, TYPE 'C'	28+31.55, 12.00 R	15.25	9.54	18" RCP	11.04 (N)
S-9	CATCH BASIN, TYPE 'C'	25+41.57, 12.00 L	14.39	8.68	18" RCP	10.18 (S)
S-10	CATCH BASIN, TYPE 'C'	25+41.52, 12.00 R	14.39	8.68	18" RCP	10.18 (N)
S-11	MANHOLE, 48"Ø	25+01.88, 5.54 L	14.61	7.37	18" RCP 24" RCP	10.40 (NE) 9.37 (S) (PRB)
S-12	CATCH BASIN, TYPE 'C'	40+30.19, 12.85 L	13.75	8.04	18" RCP	9.54 (S)
S-13	CATCH BASIN, TYPE 'C'	48+11.25, 12.00 L	14.87	9.16	18" RCP	10.66 (S)
S-14	MANHOLE, 48"Ø	48+11.25, 0.00	15.09	8.64	18" RCP 18" RCP 18" RCP	10.64 (N) 10.64 (S) 10.88 (W) (PRB)
S-15	CATCH BASIN, TYPE 'C'	48+11.25, 12.00 R	14.87	9.16	18" RCP	10.66 (N)
S-16	MANHOLE, 48"Ø	45+72.95, 0.00	15.35	8.36	18" RCP 18" RCP 18" RCP 18" RCP	10.88 (E) (PRB) 10.90 (N) 10.90 (S) 10.36 (W) (PRB)
S-17	CATCH BASIN, TYPE 'C'	45+72.95, 12.00 L	15.13	9.42	18" RCP	10.92 (S)
S-18	CATCH BASIN, TYPE 'C'	45+72.95, 12.00 R	15.13	9.42	18" RCP	10.92 (N)
S-19	MANHOLE, 60"Ø	42+72.95, 0.00	14.79	7.47	18" RCP 24" RCP 18" RCP 18" RCP	10.36 (E) (PRB) 9.47 (W) (PRB) 10.34 (N) 10.34 (S)
S-20	MANHOLE, 48"Ø	22+79.00, 30.00 R	13.97	7.47	24" RCP 24" RCP 18" RCP 18" RCP	9.47 (E) (PRB) 9.47 (W) 9.52 (N) 9.52 (S)
S-21	CATCH BASIN, TYPE 'C'	42+72.95, 12.00 L	14.57	8.86	18" RCP	10.36 (S)
S-22	CATCH BASIN, TYPE 'C'	42+72.95, 12.00 R	14.57	8.86	18" RCP	10.36 (N)
S-23	CATCH BASIN, TYPE 'C'	57+63.48, 12.00 L	14.53	8.82	18" RCP	10.32 (S)
S-24	MANHOLE, 48"Ø	57+63.48, 0.00	14.75	7.54	18" RCP 18" RCP 18" RCP	10.30 (N) 10.30 (S) 9.54 (W) (PRB)
S-25	CATCH BASIN, TYPE 'C'	57+63.48, 12.00 R	14.53	8.82	18" RCP	10.32 (N)
S-26	MANHOLE, 48"Ø	54+59.25, 0.00	14.83	7.54	18" RCP 18" RCP 18" RCP 18" RCP	9.54 (E) (PRB) 10.38 (N) 10.38 (S) 10.33 (W) (PRB)
S-27	CATCH BASIN, TYPE 'C'	54+59.25, 12.00 L	14.61	8.90	18" RCP	10.40 (S)
S-28	CATCH BASIN, TYPE 'C'	54+59.25, 12.00 R	14.61	8.90	18" RCP	10.40 (N)
S-29	MANHOLE, 48"Ø	51+59.96, 0.00	14.54	8.09	18" RCP 18" RCP 18" RCP 18" RCP	10.33 (E) (PRB) 10.09 (N) 10.09 (S) 10.33 (W) (PRB)
S-30	CATCH BASIN, TYPE 'C'	51+59.96, 12.00 L	14.32	8.61	18" RCP	10.11 (S)
S-31	CATCH BASIN, TYPE 'C'	51+59.96, 12.00 R	14.32	8.61	18" RCP	10.11 (N)
S-32	MANHOLE, 48"Ø	20+22.45, 5.50 L	14.72	8.33	18" RCP 18" RCP	10.33 (E) (PRB) 10.46 (NW) (PRB)
S-33	MANHOLE, 60"Ø	20+76.44, 0.00	14.67	7.37	18" RCP 24" RCP 18" RCP 18" RCP	10.46 (SE) (PRB) 9.37 (N) (PRB) 10.22 (W) 10.22 (E)
S-34	CATCH BASIN, TYPE 'C'	20+76.44, 12.00 L	14.45	8.74	18" RCP	10.24 (E)
S-35	CATCH BASIN, TYPE 'C'	20+76.44, 12.00 R	14.45	8.74	18" RCP	10.24 (W)
S-39	CATCH BASIN, TYPE 'C'	40+29.82, 12.68 R	13.75	8.04	18" RCP	9.54 (N)
S-40	MANHOLE, 48"Ø	22+78.56, 0.00	14.06	7.12	24" RCP 24" RCP 24" RCP	9.37 (S) (PRB) 9.47 (E) 9.37 (N) (PRB) 9.12 (NW)
S-41	CATCH BASIN, 48"Ø WEIR EL. 10.92	22+84.75, 12.00 L	13.87	7.12	24" RCP 24" RCP	9.12 (SE) 9.12 (W)



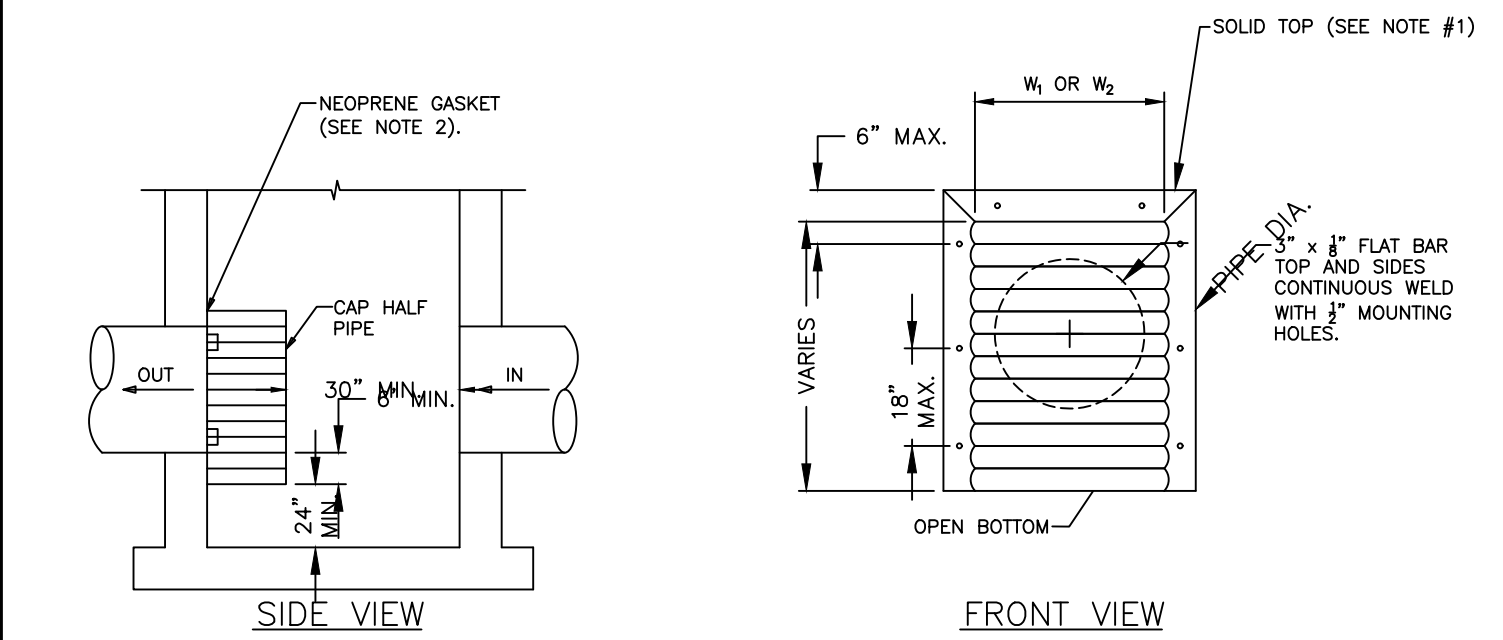
11 OUTFALL INCLUDING RIPRAP DETAIL
N.T.S.

Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com



REVISED: JUNE-2016	STORMWATER SYSTEM - EXFILTRATION TRENCH	STANDARD DETAIL
ISSUED: 2016	CITY OF WEST PALM BEACH	ST-8

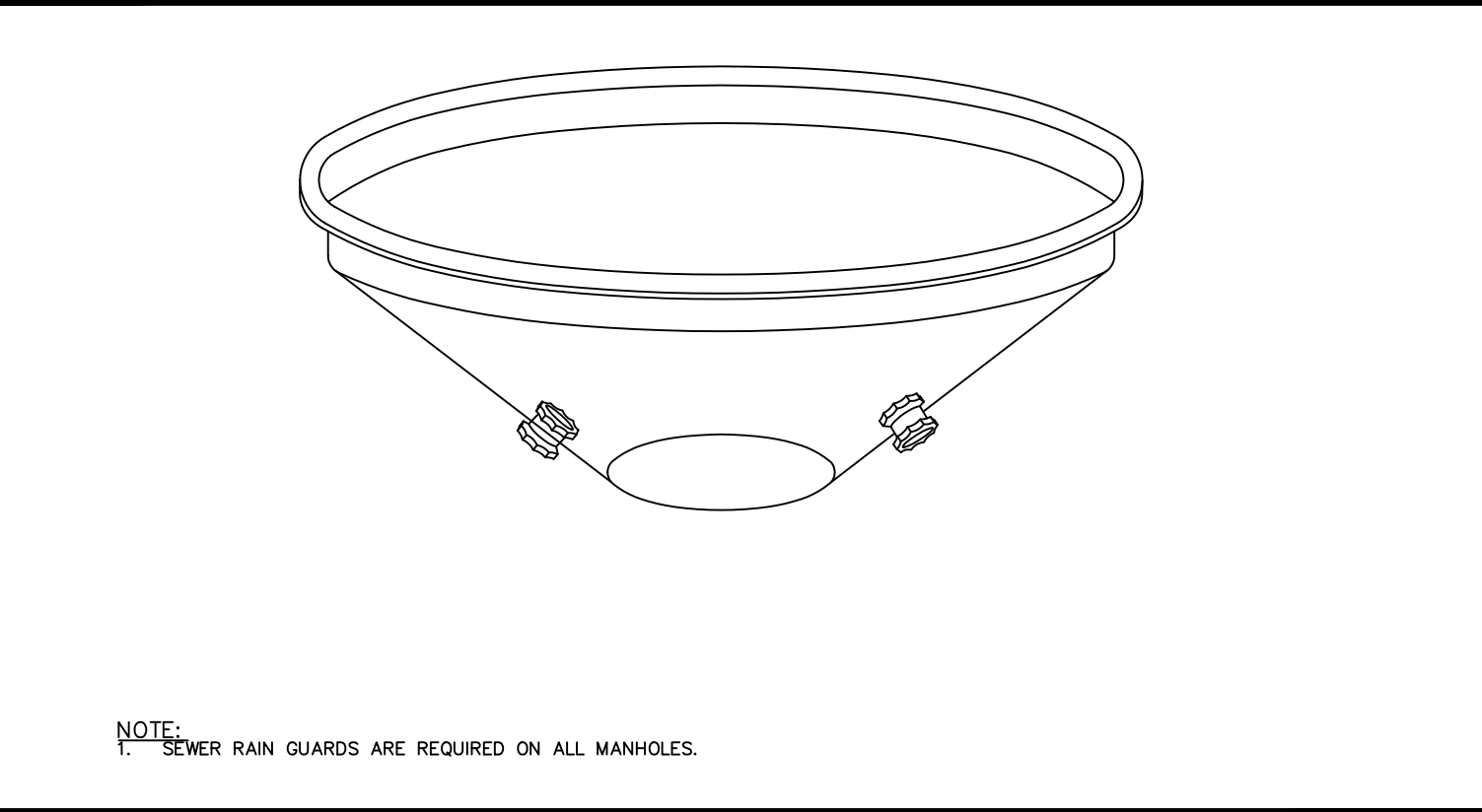


DISCHARGE PIPE DIAMETER	WEIR DIAMETER (W ₁)	WEIR DIAMETER (W ₂)	GAUGE (T)
15"	21"	21"	16
18"	24"	24"	16
24"	30"	36"	16
30"	36"	42"	14
36"	42"	48"	14
42"	48"	54"	14
48"	54"	60"	14
54"	60"	66"	14

NOTES:

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

REVISED: JUNE-2016	POLLUTION RETARDANT BAFFLE DETAIL	STANDARD DETAIL
ISSUED: 2016	CITY OF WEST PALM BEACH	ST-7



CITY OF RIVIERA BEACH UTILITY SPECIAL DISTRICT		
LINEONE LINETWO LINETHREE	REVISD: JULY 2023	SHEET NO.
100% SUBMITTAL		

cma
chen moore and associates

500 Australian Avenue South
Suite 530
West Palm Beach, FL 33401
561.746.6900
www.chenmoore.com
CERTIFICATES OF AUTHORIZATION
EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE: _____

CLIENT



Public Works Department
2391 Avenue "I"
Riviera Beach, Florida 33404

PROJECT INFORMATION

RIVIERA HEIGHTS
W 1 ST - W 3 ST
NEIGHBORHOOD
IMPROVEMENTS

CITY OF RIVIERA
BEACH, FLORIDA

PROJECT NUMBER
26-0221.00036

RIVIERA BCH PROJECT NO
608-16

VERIFY SCALES
0" = 1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
02/20/2026

DESIGNED BY
MW

DRAWN BY
TN

CHECKED BY
SD

DRAWING TITLE

DETAILS

DRAWING NUMBER
DT-6
41 OF 42

FORM 360-1 (1)

CONSTRUCTION PROCEDURES

THE HAUNCH FOR THE FIRST AND SECOND STAGES SHALL BE PLACED IN 8" LAYERS (COMPACTED THICKNESS) AND SHALL BE COMPACTED TO 100% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.

STAGE 1:

THE CONTRACTOR SHALL PROVIDE ADEQUATE 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 REQUIRED.

STAGE 2:

THE CONTRACTOR SHALL OBTAIN A WELL-COMPACTED BED AND FILL ALONG THE JOINTS OF THE PIPE AND TO A POINT INDICATING THE TOP OF SUB-GRADE MATERIAL.

REPLACEMENT OF FLEXIBLE PAVEMENT FOR PERMITTED PAVEMENT CUT

NOTES

- BEDDING SHALL CONSIST OF IN-SITU GRANULAR MATERIAL OR WASHED AND GRADED LIMESTONE 3/8" - 7/8" SIZING WITH EQUAL OR GREATER STRUCTURAL ADEQUACY AS EXISTING. UNSUITABLE IN-SITU MATERIALS SUCH AS MUDS, DEBRIS AND LARGER ROCKS SHALL BE REMOVED.
- REPLACED BASE MATERIAL OVER WHICH SHALL BE 16" LIMESTONE (LBI100) MINIMUM FOR THOROUGHFARE PLAN ROADS. IF ANY ALTERNATE BASE MATERIAL REQUESTED BY THE ENGINEER OF RECORD REQUIRES APPROVAL BY THE ROADWAY PRODUCTION DIVISION.
- ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED AND BUTT-JOINTED.
- BASE MATERIAL (PER ROADWAY PRODUCTION DESIGN STANDARDS) SHALL BE PLACED IN TWO OR THREE LAYERS (6" MAX. PER LAYER) AND EACH LAYER VIGOROUSLY ROLLED OR TAMPED TO THE SPECIFIED DENSITY. (MINIMUM 98% AASHTO - T-160)
- 1" FRICTION COURSE FC-6.5 OR 1.5-2" TYPE SP STRUCTURAL COURSE (TRAFFIC LEVEL C) WITH TACK COAT AT 0.25 GAL/SYAL AND 10-20 PRIME COAT AT 0.10 GAL/SYAL FOR UNDERLAYER BASE. FOLLOW THE LATEST FOOT SPECIFICATIONS FOR APPLICATION RATES OF PRIME AND TACK COATS. CONTRACTOR TO SUBMIT MATERIALS AND RATES TO ENGINEER FOR APPROVAL PRIOR TO BEGINNING WORK
- PIPE SHALL BE PLACED IN A DRY TRENCH.
- ALL ROADWAY REPAIR WORK SHALL BE PERFORMED IN CONFORMANCE WITH APPLICABLE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND COUNTY PPMM EL-360S.
- 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.
- 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 IMMEDIATELY FOLLOWING THE OPEN CUT, A SMOOTH TEMPORARY PATCH (MINIMUM 3'-5" SP 12.5 STRUCTURAL COURSE ASPHALT) SHALL BE INSTALLED IMMEDIATELY WATCHING THE EXISTING GRADINGS 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 SURT 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.
- 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 LANE ENCOMPASSED BY THE TRENCH AREA, INCLUDING A TRANSITION AREA OF 50 FT ON EACH SIDE MEASURED FROM TOP OF TRENCH.
- APPROVED MAGNETIC TAPE IS REQUIRED FOR ALL MAIN PRESSURE PIPES AND CONDUIT IN THE COUNTY'S OPEN-CUT-OR-WAY.
- 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 AFWA.

FILEPATH: P:\DGN\ENGINEER\AND DEVELOPMENT STANDARDS\2.DGN

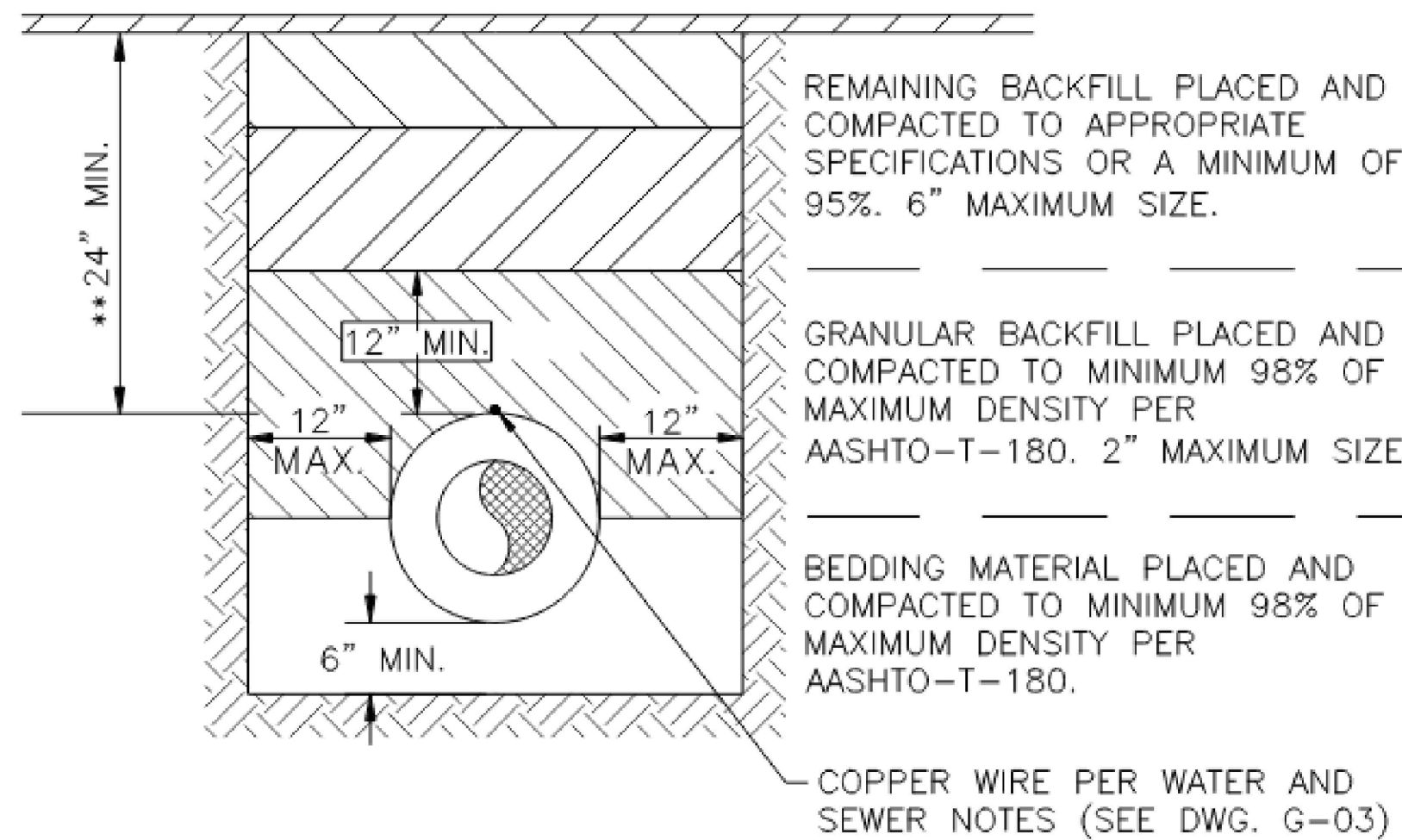
PALM BEACH COUNTY DEPARTMENT OF ENGINEERING & PUBLIC WORKS

OPEN CUT DETAIL FOR THOROUGHFARE ROADS (PAVED AREAS)

DRAWING NO.

DRAWN BY:	DATE:	REVIEWED BY:	DATE:	APPROVED:	EFFECTIVE:
K.L.	06/25/93	J.M.K.	02/01/2018	<i>John Macdonnell</i>	4/2/18
				COUNTY ENGINEER OR DESIGNER	

2



NOTES:

1. BEDDING SHALL CONSIST OF IN-SITU GRANULAR MATERIAL OR WASHED AND GRADED LIMEROCK 3/8"-7/5" SIZING.
2. THE PIPING 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 LARGER ROCK, MUCK, AND DEBRIS.
5. DENSITY TESTS ARE REQUIRED IN 1 FOOT LIFTS ABOVE THE PIPE AT INTERVALS OF 400' MAX., OR AS DIRECTED BY THE INSPECTOR.
6. STREET PAVEMENT 2" ASPHALT, BASE 8" LIMEROCK OR 6" CONCRETE (SEE PLANS).

TRENCH DETAIL
NTS

BID ALT 3 - 6" CONCRETE PAVEMENT

N.T.S.

Always call 811 two full business days before you dig to have underground utilities located and marked.



100% SUBMITTAL

500 Australian Avenue South
Suite 530
West Palm Beach, FL 33401
561.746.6900

www.chenmoore.com
CERTIFICATES OF AUTHORIZATION
 EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE:

CLIENT



Public Works Department
2391 Avenue "L"
Riviera Beach, Florida 33404

PROJECT INFORMATION

RIVIERA HEIGHTS W 1 ST - W 3 ST NEIGHBORHOOD IMPROVEMENTS

CITY OF RIVIERA
BEACH, FLORIDA

PROJECT NUMBER
26-0221.00036

RIVIERA BCH PROJECT NO
608-16

VERIFY SCALES
0

REVISIONS

DATE OF ISSUE
02/20/2026

DESIGNED BY
MW

DRAWN BY
TN

CHECKED BY
SD

DRAWING TITLE

DETAILS

DRAWING NUMBER

DT-7
42 OF 42