

**ENG22-00174**

**0 166 TER SW, WESTON FL 33326**

5/26/2022 8:05:38 AM

## **General Conditions**

### ***[Discipline: ENGINEERING]***

#### **Standard Conditions**

Standard Conditions of Approval:

1. Approval is concurrent with Traffic and Landscape Departmental approval.
2. A pre-construction meeting with the City of Weston is required prior to commencement of construction activities. An engineering checklist and applicable design details will be provided at the meeting. Contact the Engineering Permitting office at 954-385-0500.
3. Contractor/Owner is responsible for attaining all other local, state, and federal permits.
4. Contractor working hours within the City shall be according to City of Weston Code Chapter 52.52(J) which can be found at [http://www.amlegal.com/weston\\_fl/](http://www.amlegal.com/weston_fl/). There shall be no underground work performed within the public's right-of-way before 8:30 and after 3:30 on the weekdays. No underground work shall be performed on the weekends. Working hours for above ground utility work affecting publicly owned utilities shall be the same. Any arrangements outside of these hours shall be made a minimum of five days in advance of construction activity.
5. Current City of Weston Standards for construction and materials shall be utilized. Refer to [http://www.amlegal.com/weston\\_fl/](http://www.amlegal.com/weston_fl/) for latest codes, standards, and details. Specifically, Title XII: Land Use, Chapter 127 Engineering Standards.
6. Any impacted/disturbed sidewalks, pavement or grassed areas must be restored to City standards.
7. During construction if it is determined that trees shall be disturbed, the City must be immediately notified.

### ***[Discipline: ENGINEERING]***

#### **Specific Conditions**

Specific Conditions of Approval:

1. The roadway pavement section must be per the City Standard details R-1, R-2, and R-3.
2. The City requires FDOT Type SP-9.5 pavement.
3. Turbidity barriers must be installed prior to construction.
4. The applicant shall be responsible to implement best management practices for Stormwater Pollution Prevention. City's lakes or water bodies and public/private drainage systems must be protected during construction activities.

### ***[Discipline: LANDSCAPING]***

#### **APPROVED WITH CONDITIONS COMMENTS**

- 1) Please be advised that the plans are conditionally approved per the plans and contract. As such, please be advised that any proposed soft digs, boring pits, digging pits, valves, pipes, or structures within the project limit indicated on the plans may have to be relocated somewhat to (a minimum of 10') to accommodate existing trees, palms, roots, landscaping beds and hedges. Also, if these items are located within the drip line of any tree or palm a tree protection barricade must be installed and maintained to the completion of the job. Lastly, please utilize caution with the machinery digging on this project regarding the existing tree/palm roots, trunks, and tree canopy.
- 2) Please be advised that no existing trees or palms can be removed or relocated without an approved tree removal, relocation, bonding, and mitigation permit. NOTE: No trees or palms are proposed for removal or removal on the plans.
- 3) Please be advised that the name of the proposed Weston Registered /Tree professional doing the root pruning and tree trimming for the project is All Florida Tree per the email dated 05/03/22. NOTE: All Florida Tree will be required at the Pre-construction meeting.
- 4) Please replace all damaged landscaping to equal or better, including but not limited to trees, palms, accents, hedges, shrubs, ground cover, vines, and sod.
- 5) Please be advised that any irrigation that is damaged must be repaired to equal or better as soon as possible. Additionally, during the final inspection an irrigation inspection must be done to verify that the irrigation is working appropriately.
- 6) Please repair or replace all ruts in the sod and berms, (including slopes) to equal or better prior to final inspection.
- 7) Please call the City of Weston Landscape Inspector at 954-921-7781 to schedule a landscape pre-construction meeting prior to commencement of any work.

### ***[Discipline: TRAFFIC]***

#### **Traffic Engineering Review Conditions of Approval**

1. Approval is concurrent with Engineering and Landscaping Department's approval.
2. Contractor is responsible for providing appropriate Maintenance of Traffic (MOT) for the duration of the project in accordance with the standards set for in the State of Florida. MOT plans should accommodate pedestrian traffic.
3. A pre-construction meeting with the City of Weston is required prior to commencement of construction activities. An engineering checklist and applicable design details will be provided at the meeting.



Landscaping - Bill Tesaro - Approved w/Comments - 5/10/2022  
Fire - Raul COSME - Approved 5/5/2022  
Engineering - Heidi Henderson - Approved w/Comments - 5/16/2022  
Traffic - Pablo Kan-Munoz - Approved w/Comments - 5/20/2022



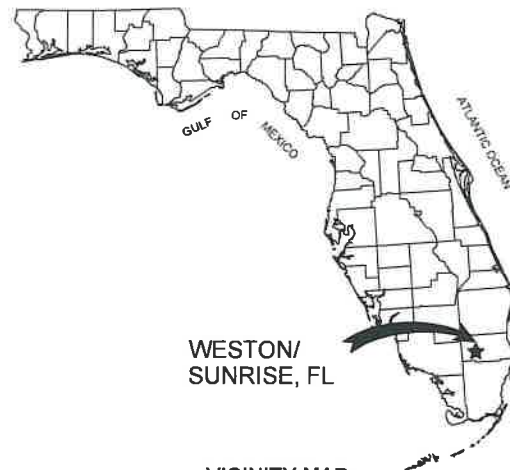
APPROVED BY BROWARD  
SHERIFF'S OFFICE FIRE  
MARSHAL'S BUREAU

5/5/2022

AUTHORIZED BY:  
Raul COSME

UTILITIES DEPARTMENT  
SUNRISE, FLORIDA 33325

# BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS



WESTON/  
SUNRISE, FL

VICINITY MAP



CITY OF SUNRISE & CITY OF WESTON  
SECTIONS 07, 08 - TOWNSHIP 50S - RANGE 40E  
PROJECT LOCATION  
SCALE: 1"=500'

**NOTES:**

- ALL HORIZONTAL AND VERTICAL CONTROL UTILIZES THE FOLLOWING:
  - HORIZONTAL DATUM - NAD83
  - VERTICAL DATUM - NAVD 1988
- CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY OF SUNRISE MINIMUM DESIGN AND CONSTRUCTION STANDARDS
- DRAWING SCALE SHOWN CORRESPONDS TO PLOT SIZE 24"X36".
- PAVEMENT & LANDSCAPE RESTORATION SHALL BE IN ACCORDANCE TO CITY OF WESTON CHAPTER 127 ENGINEERING STANDARDS.
- THE EASEMENT RECORDED IN OFFICIAL RECORDS BOOK 6195, PAGE 993 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA GRANTS THE CITY OF SUNRISE THE RIGHT OF INGRESS AND EGRESS ACROSS ALL OF BONAVENTURE'S PROPERTIES IN ORDER TO MAINTAIN OR REPLACE ITS WATER LINES AND ASSOCIATED INFRASTRUCTURE.

DESIGN TICKET 140902703  
DATE: 05/20/2019



PERMIT SET SUBMITTAL  
08/12/2021

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Amigot:A01410C00001784610E2AA00007673  
Date: 2022.02.01 08:20:10 -05'00'

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Certificate of Authorization No. 7184

SUB-CONSULTANTS

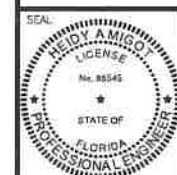


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POMPANO BEACH, FL 33060  
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Certificate of Authorization LB No. 6860

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DATE:  
01/28/2021

DRAWING NO.  
G-1





INDEX OF SHEETS		
SHEET COUNT	SHEET NUMBER	SHEET TITLE
1	G-1	COVER
2	G-2	INDEX OF SHEETS
3	G-3	ABBREVIATIONS & LEGEND
4	G-4	GENERAL NOTES
5	G-5	STORMWATER POLLUTION PREVENTION CONTROL NOTES
6	G-6	STORMWATER POLLUTION PREVENTION PLAN
7	G-7	STORMWATER POLLUTION PREVENTION PLAN
8	G-8	STORMWATER POLLUTION PREVENTION PLAN
9	G-9	STORMWATER POLLUTION PREVENTION DETAILS
10	G-10	TEST HOLE TABULATIONS
11	G-11	WATER METER RELOCATION TABULATION & NOTES
12	C-1	WATER SERVICES & WATER MAINS KEY MAP & PROJECT LAYOUT
13	C-2	WATER SERVICES & WATER MAINS KEY MAP & PROJECT LAYOUT
14	C-3	WATER SERVICES & WATER MAINS KEY MAP & PROJECT LAYOUT
15	C-4	WATER SERVICE LINE PLAN
16	C-5	WATER SERVICE LINE PLAN
17	C-6	WATER SERVICE LINE PLAN
18	C-7	WATER SERVICE LINE PLAN
19	C-8	WATER SERVICE LINE PLAN
20	C-9	WATER SERVICE LINE PLAN
21	C-10	WATER SERVICE LINE PLAN
22	C-11	WATER SERVICE LINE PLAN
23	C-12	WATER SERVICE LINE PLAN
24	C-13	WATER SERVICE LINE PLAN
25	C-14	WATER SERVICE LINE PLAN
26	C-15	WATER SERVICE LINE PLAN
27	C-16	WATER SERVICE LINE PLAN
28	C-17	WATER SERVICE LINE PLAN
29	C-18	WATER SERVICE LINE PLAN
30	C-19	WATER SERVICE LINE PLAN
31	C-20	WATER SERVICE LINE PLAN
32	C-21	WATER SERVICE LINE PLAN
33	C-22	WATER SERVICE LINE PLAN
34	C-23	WATER SERVICE LINE PLAN
35	C-24	WATER SERVICE LINE PLAN
36	C-25	WATER SERVICE LINE PLAN
37	C-26	WATER SERVICE LINE PLAN
38	C-27	WATER SERVICE LINE PLAN
39	C-28	WATER SERVICE LINE PLAN
40	C-29	WATER SERVICE LINE PLAN
41	C-30	WATER SERVICE LINE PLAN
42	C-31	WATER SERVICE LINE PLAN
43	C-32	WATER SERVICE LINE PLAN
44	C-33	WATER SERVICE LINE PLAN
45	C-34	WATER SERVICE LINE PLAN
46	C-35	WATER SERVICE LINE PLAN
47	C-36	WATER SERVICE LINE PLAN
48	C-37	WATER SERVICE LINE PLAN
49	C-38	WATER SERVICE LINE PLAN
50	C-39	WATER MAIN PLAN AND PROFILE
51	C-40	WATER MAIN PLAN AND PROFILE
52	C-41	WATER MAIN PLAN AND PROFILE
53	C-42	WATER MAIN PLAN AND PROFILE
54	C-43	WATER MAIN PLAN AND PROFILE
55	C-44	WATER MAIN PLAN AND PROFILE
56	C-45	WATER MAIN PLAN AND PROFILE
57	C-46	WATER MAIN PLAN AND PROFILE
58	C-47	WATER MAIN PLAN AND PROFILE
59	C-48	WATER MAIN PLAN AND PROFILE
60	C-49	WATER MAIN PLAN AND PROFILE
61	C-50	WATER MAIN PLAN AND PROFILE
62	C-51	WATER MAIN PLAN AND PROFILE
63	C-52	WATER MAIN PLAN AND PROFILE
64	C-53	WATER MAIN DETAILS CITY OF SUNRISE
65	C-54	WATER MAIN DETAILS CITY OF SUNRISE
66	C-55	SANITARY SEWER DETAILS & NOTES (FOR REPAIRS) CITY OF SUNRISE
67	C-56	WATER MAIN DETAILS SPECIAL PROJECT DETAILS
68	C-57	PROPOSED FLUSHING SEQUENCE
69	C-58	PROPOSED FLUSHING SEQUENCE
70	C-59	PROPOSED FLUSHING SEQUENCE
71	PM-1	PAVEMENT RESTORATION PLAN
72	PM-2	PAVEMENT RESTORATION PLAN

73	PM-3	PAVEMENT RESTORATION PLAN
74	PM-4	PAVEMENT MARKING PLAN
75	PM-5	PAVEMENT MARKING PLAN
76	PM-6	PAVEMENT MARKING PLAN
77	PM-7	EXISTING SIGNAGE INVENTORY
78	PM-8	EXISTING SIGNAGE INVENTORY
79	PM-9	EXISTING SIGNAGE INVENTORY
80	PM-10	PAVEMENT RESTORATION & MARKING DETAILS CITY OF WESTON
81	PM-11	PAVEMENT RESTORATION & MARKING DETAILS CITY OF WESTON
82	PM-12	PAVEMENT MARKING & SIGN DETAILS BROWARD COUNTY
83	PM-13	PAVEMENT MARKING & SIGN DETAILS BROWARD COUNTY
84	PM-14	PAVEMENT MARKING & SIGN DETAILS BROWARD COUNTY
85	PM-15	PAVEMENT MARKING & SIGN DETAILS BROWARD COUNTY

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REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY: H.A.  
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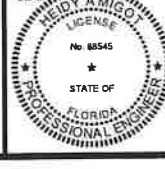


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**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**  
 AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**INDEX OF SHEETS**



DATE: 01/28/2021  
 DRAWING NO. G-2



**SURVEY LEGEND:**

- BB BOTTLE BRUSH TREE
- B.C.R. BROWARD COUNTY RECORDS
- BM BENCHMARK
- BO BLACK OLIVE TREE
- CMP CORRUGATED METAL PIPE
- CYP CYPRESS TREE
- EL ELEVATION
- FB FICUS BENJAMIN TREE
- GL GUMBO LIMBO TRFF
- INV INVERT
- L.B. LICENSED BUSINESS
- MHOG MAHOGANY TREE
- MRT MYRTLE TREE
- P.B. PLAT BOOK
- PG. PAGE
- PVC POLYVINYL CHLORIDE PIPE
- PSIM POINCIANA TREE
- RCP REINFORCED CONCRETE PIPE
- RAW RIGHT-OF-WAY
- SCH SCHEFFLERA TREE
- TAB TABULIA TREE
- UNK UNKNOWN TREE
- FIBERGLASS LIGHT POLE
- CABLE TELEVISION RISER
- ⊞ TELEPHONE RISER
- ⊞ ELECTRICAL RISER
- SPRINKLER
- BOLLARD
- ⊞ ELECTRIC CABINET
- ⊞ TELEPHONE CABINET
- ⊞ TRAFFIC SIGNAL CABINET
- ⊞ TRASH CAN
- ⊞ CATCH BASIN
- ⊞ SANITARY SEWER CLEANOUT
- ⊞ DEPARTMENT CONNECTION
- ⊞ GUY WIRE ANCHOR
- ⊞ ELECTRIC HAND HOLE
- ⊞ FIBER OPTIC HAND HOLE
- ⊞ STREET LIGHT HAND HOLE
- ⊞ TELEPHONE HAND HOLE
- ⊞ TRAFFIC SIGNAL HAND HOLE
- ⊞ CATV HAND HOLE
- ⊞ LIGHT POLE
- ⊞ ELECTRIC METER
- ⊞ STORM DRAIN MAINTENANCE ACCESS STRUCTURE
- ⊞ ELECTRIC MAINTENANCE ACCESS STRUCTURE
- ⊞ SANITARY SEWER MAINTENANCE ACCESS STRUCTURE
- ⊞ TELEPHONE MAINTENANCE ACCESS STRUCTURE
- ⊞ MAINTENANCE ACCESS STRUCTURE UNKNOWN
- ⊞ WATER METER
- ⊞ MAILBOX
- ⊞ ELECTRIC OUTLET
- ⊞ SET BENCHMARK
- ⊞ SINGLE SIDED SINGLE POST SIGN
- ⊞ SINGLE SIDED DOUBLE POST SIGN
- ⊞ IRRIGATION WATER VALVE
- ⊞ ELECTRIC TRANSFORMER
- ⊞ TELEPHONE VAULT
- ⊞ SANITARY SEWER VALVE
- ⊞ UNKNOWN VALVE
- ⊞ WATER VALVE
- ⊞ YARD DRAIN
- ⊞ PALM TREE
- ⊞ EVERGREEN TREE
- ⊞ DECIDUOUS TREE
- ⊞ SHRUB
- CONCRETE
- BRICK PAVER
- STAMPED CONCRETE DRIVEWAY
- DETECTABLE SURFACE
- HEDGE
- CHAIN LINK FENCE
- WOOD FENCE
- PVC FENCE
- GUARD RAIL
- OVERHEAD WIRES

**ABBREVIATIONS:**

- AVC AIR CONDITIONER
- A.D.F. ALUMINUM DECORATIVE FENCE
- B.F.P. BACKFLOW PREVENTOR
- B.H. BORING HOLE
- BOL BOLLARD
- BP BRICK PAVERS
- (CALC.) CALCULATED MEASUREMENT
- C/S CONCRETE SI AR
- C.B.S. CONCRETE BLOCK STUCCO
- CBS CONCRETE BLOCK STRUCTURE
- C.L.F. CHAIN LINK FENCE
- CLF CHAIN LINK FENCE
- CLP CONCRETE POLE W/LIGHT
- CO CLEANOUT
- CONC CONCRETE
- DDCV DOUBLE DETECTOR CHECK VALVE
- D.I.P. DUCTILE IRON PIPE
- EB ELECTRIC BOX
- EL ELEVATION
- ELEV ELEVATION
- EP ELECTRIC PANEL
- F/S FIBERGLASS SHED
- F.F. FINISHED FLOOR
- F.F.L. FINISHED FLOOR
- GA GUYWIRE ANCHOR
- H HEIGHT
- H/C HANDICAPPED
- H.D.P.E. HIGH DENSITY POLYETHYLENE
- I.F.A. IRON FENCE
- INV INVERT
- IP IRON PIPE
- IR IRON ROD
- IRC IRON ROD WITH CAP
- L LENGTH OF CURVE
- LB LICENSED BUSINESS
- L.B. LICENSED BUSINESS
- M/C MOTORCYCLE PARKING
- MAS MAINTENANCE OF ACCESS STRUCTURE
- MLP METAL POLE W/LIGHT
- N.T.S. NOT TO SCALE
- OH OVERHEAD WIRES
- OHV OVERHEAD WIRES
- O.R.B. OFFICIAL RECORDS BOOK
- ORB OFFICIAL RECORDS BOOK
- P.B. PLAT BOOK
- PB. PLAT BOOK
- PG. PAGE
- P.O.B. POINT OF BEGINNING
- P.R.M. PERMANENT REFERENCE MONUMENT
- P.S.M. PROFESSIONAL SURVEYOR AND MAPPER
- R RADIUS OF CURVE
- RGE RANGE
- R.P.M. RAISED PAVEMENT MARKER
- REST RESTRAINT
- SAN SANITARY
- SBT&T TELEPHONE AND TELECOMMUNICATIONS
- SEC. SECTION
- SIA SIAMESE CONNECTION
- SP SPREAD
- ST STORMWATER
- T.B.M. TEMPORARY BENCHMARK
- TWP TOWNSHIP
- TYP. TYPICAL
- W/ WITH
- W.F. WOOD FENCE
- WF WOOD FENCE
- WLP WOOD POLE W/LIGHT
- WP WOOD POLE
- Δ DELTA OF CURVE
- ∅ DIAMETER
- +9.99 SPOT ELEVATION

**LEGEND**

**EXISTING**

- CATV --- CABLE TV OVERHEAD
- CATV --- CABLE TV UNDERGROUND
- OE --- ELECTRIC OVERHEAD
- EF --- ELECTRIC UNDERGROUND
- FM --- FORCE MAIN
- GAS --- GAS
- IRR --- IRRIGATION
- SAN --- SANITARY SEWER
- SW --- STORM SEWER
- BT --- TELEPHONE UNDERGROUND
- TLF --- TRAFFIC LOOP
- WL --- WATER LATERAL
- WM WATER MAIN
- EXISTING FIRE HYDRANT
- 1" X 1/2" SINGLE WATER METER PROP. 1" SERVICE LINE
- 1 1/2" X 1/2" DOUBLE WATER METER PROP. 1.5" SERVICE LINE
- 1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
- 2 - 1/2" X 1/2" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
- 2 - 1" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
- WATER MAIN
- GATE VALVE
- PROP. FIRE HYDRANT
- TAPPING SLEEVE
- WATER SERVICE
- SOLID SLEEVE
- TEE
- WYE
- PLUG
- PLUG W/ 2" BLOW OFF VALVE
- TEST HOLE
- SAMPLING POINT
- BASELINE
- CENTERLINE
- MONUMENT LINE
- PROPERTY LINE
- RIGHT OF WAY LINE
- SECTION LINE
- TURBIDITY BARRIER
- SILT FENCE
- POLLUTION RETAINER
- CATCH BASIN
- YARD DRAIN

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FILE LOCATION: H:\PROJECTS\0171231 07 BONNAVENTURE WA\CAD\0171231 07\_G02-G04\_G01.DWG  
 PLOT DATE: 1/28/2021 9:26 AM

REVISIONS		
NO.	DATE	DESCRIPTION

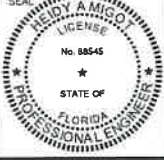
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DRAWN BY:	H.A.
CHECKED BY:	S.J.R.
SCALE:	N/A


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SHEET TITLE  
**ABBREVIATIONS & LEGEND**

	DATE:	01/28/2021
	DRAWING NO.:	G-3





GENERAL NOTES:

- 1. ALL WORK PERFORMED SHALL BE IN FULL COMPLIANCE WITH THE REQUIREMENTS OF THE CITY OF SUNRISE, AND ALL OTHER AGENCIES WHICH MAY EXERT JURISDICTION. WHEN CONFLICTS OCCUR BETWEEN REQUIREMENTS SHOWN WITHIN THE CONTRACT DOCUMENTS AND REGULATORY CRITERIA, THE MORE STRINGENT REQUIREMENT SHALL PREVAIL. THE CONTRACTOR SHALL VERBALLY BRING ANY CONFLICT TO THE ATTENTION OF THE DESIGN ENGINEER IMMEDIATELY, FOLLOWED BY AN OFFICIAL WRITTEN NOTIFICATION WITHIN 24 HOURS.
2. SOME OF THE EXISTING UNDERGROUND FACILITIES HAVE NOT BEEN PHYSICALLY LOCATED BY THE ENGINEER. INFORMATION ABOUT THE EXISTING UTILITIES ARE SHOWN ON THE DRAWINGS, DETERMINING AND VERIFYING THE ACTUAL LOCATION AND ELEVATIONS OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY. BEFORE TWO WEEKS PRIOR TO ANY EXCAVATION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES AND OWNER WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA AND TO PERFORM THE NECESSARY "SOFT DIGS" AND LOCATE ALL BURIED UTILITIES. (PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION). THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES RESULTING FROM THE CONTRACTOR'S FAILURE TO PHYSICALLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER AND DESIGN ENGINEER ASSUME NO LIABILITY FOR ANY DAMAGE SUSTAINED OR COSTS INCURRED BECAUSE OF THE CONTRACTOR'S OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES. NOR FOR TEMPORARY BRACING AND SHORING OF SAME. CONTRACTOR SHALL SCHEDULE AND EXECUTE ALL WORK INVOLVING EXISTING UTILITIES AND SHALL BE COMPLETE AS REQUIRED TO MINIMIZE INTERRUPTIONS OF OWNER AND UTILITY PROVIDER AT LEAST 48 HOURS IN ADVANCE.
3. ALL WORK TO REPAIR/RESTORE EXISTING UTILITY SERVICE THAT IS DAMAGED SHALL BE PERFORMED AS REQUIRED BY THE CONTRACTOR, WHO IS RESPONSIBLE TO KEEP ON SITE MATERIAL TO REPAIR WITHIN 24 HOURS ANY DAMAGE TO EXISTING UTILITIES TO MINIMIZE ANY SERVICE INTERRUPTION TO THE COMMUNITY. IF IT IS NECESSARY TO SHORE, BRACE, OR OTHERWISE RELOCATE A UTILITY TO FACILITATE CONSTRUCTION, CONTACT THE UTILITY COMPANY OR DEPARTMENT AFFECTED AND OBTAIN THEIR PERMISSION REGARDING THE METHOD TO USE FOR SUCH WORK. ALL COST RELATED TO SERVICE, MAINTENANCE, INTERRUPTION, REPAIR, RELOCATION AND RESTORATION ARE TO BE INCLUDED IN THE CONTRACTOR'S BID. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT, AND NO EXTRA COMPENSATION SHALL BE PAID.
4. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION STAKING TO INCLUDE HORIZONTAL AND VERTICAL CONTROL FOR ALIGNMENT OF WORK. ALL SURVEY WORK ESTABLISH THE HORIZONTAL AND VERTICAL CONTROL SHALL BE UNDER THE GUIDANCE AND DIRECT SUPERVISION OF A REGISTERED PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF FLORIDA. BASELINES ARE REFERENCED TO THE CENTER OF EXISTING ROAD. ALL CONTROL FIELD NOTES TO BE SUBMITTED TO THE CITY PRIOR TO COMMENCEMENT OF EACH PHASE.
5. THE BASELINE/CENTERLINE OF CONSTRUCTION MUST BE MARKED IN THE FIELD AND STATIONS PAINTED TO ALLOW INSPECTORS TO IDENTIFY THE EXTENT AND LOCATION OF ANY WORK OR INSTALLATION.
6. ALL TREES, SHRUBS, ETC., OUTSIDE CONSTRUCTION LIMITS AND/OR UTILITY EASEMENT SHALL BE PROTECTED WHERE NECESSARY. UNLESS NOTED OTHERWISE ON THE DRAWINGS, NO TREES SHALL BE DESTROYED WITHOUT PRIOR APPROVAL OF THE ENGINEER AND OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF DAMAGED TREES WITH CITY OF WESTON APPROVED TREES AT NO COST TO THE OWNER. PROTECTION OF OTHER FLORA AND FAUNA ON THE CONSTRUCTION SITE WILL BE AT THE COST AND THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH CITY OF WESTON CODES REGARDING TREES AND LANDSCAPING AND FOR ALL REQUIRED PERMITS.
7. NO TREES MAY BE TRIMMED, RELOCATED, REMOVED OR OTHERWISE NEGATIVELY IMPACTED BY THE WORK PROPOSED WITHOUT FIRST OBTAINING THE APPROPRIATE TREE PERMIT FROM THE CITY OF WESTON.
8. RESTORE ALL PROPERTY AFFECTED AND/OR DAMAGED BY DEMOLITION AND/OR CONSTRUCTION ACTIVITIES TO A CONDITION EQUAL TO OR BETTER THAN EXISTED BEFORE COMMENCING CONSTRUCTION WORK, UNLESS SPECIFICALLY EXEMPTED BY THE DRAWINGS. RESTORATION WORK INCLUDES, BUT IS NOT LIMITED TO PAVEMENT, BASE, SUBGRADE, CONCRETE CURBS, SIDEWALKS, STORM WATER PIPE, IRRIGATION SYSTEM, ETC. IF ADDITIONAL TOPOGRAPHIC OR ANY OTHER INFORMATION IS NECESSARY FOR THE CONTRACTOR TO RECONSTRUCT ALL FACILITIES TO PRE CONSTRUCTION GRADES AND DIMENSIONS, THE ACQUISITION OF SUCH ADDITIONAL INFORMATION SHALL BE THE CONTRACTOR'S RESPONSIBILITY WITH COST INCLUDED IN BID PRICE. RECONSTRUCT ALL FACILITIES TO PRE CONSTRUCTION GRADES AND DIMENSIONS, UNLESS OTHERWISE NOTED. WATER, FERTILIZE AND SUPPLY ALL ITEMS AND CARE NECESSARY TO MAINTAIN THE HEALTH OF ALL NEW VEGETATION AND VEGETATION REMOVED AND REPLACED, IN ACCORDANCE WITH THE LANDSCAPE PERMITS, UNTIL ESTABLISHED. SPECIAL ATTENTION MUST BE GIVEN TO PROPERTY DRIVEWAYS, WHICH CAN NOT BE BLOCKED DURING CONSTRUCTION AND WILL BE RESTORE IMMEDIATELY IF NECESSARY.
9. CONTRACTOR IS RESPONSIBLE FOR OBTAINING OFFSITE AREAS FOR STORAGE OF MATERIALS AND EQUIPMENT. CONTRACTOR MATERIALS AND EQUIPMENT MAY BE STORED IN AN AVAILABLE AREA DESIGNATED FOR THIS. ALL MATERIALS AND EQUIPMENT SHALL BE STORED AND SECURED INSIDE A LOCKED FENCE SUPPLIED BY THE CONTRACTOR. CONTRACTOR SHALL REMOVE FENCE AND RESTORE STORAGE AREA WHEN COMPLETE. SECURITY OF CONSTRUCTION EQUIPMENT AND MATERIALS IS RESPONSIBILITY OF THE CONTRACTOR.
10. OSHA'S EXCAVATION SAFETY STANDARDS 29, CFR PART 1926.650-652 SUBPART P, ARE CONSIDERED AS COMPLEMENTARY TO THESE CONTRACT DOCUMENTS. IF THERE IS ANY DUPLICATION, REDUNDANCY OR CONFLICT BETWEEN THE STIPULATIONS OF THESE CONTRACT DOCUMENTS AND THOSE STANDARDS, THE MOST STRINGENT REQUIREMENT SHALL GOVERN.
11. WHERE CONNECTION IS TO BE MADE IN THE FIELD TO AN EXISTING PIPE THE CONTRACTOR SHALL EXCAVATE THE AREA TO VERIFY THE TYPE, SIZE, AND CONDITION OF THE PIPE AND OBTAIN ENGINEER AND OWNER APPROVAL OF THE PROPOSED METHOD OF CONNECTION PRIOR TO INSTALLING THE NEW PIPELINE OR ORDERING MATERIAL.
12. UNDER NO CIRCUMSTANCE SHALL PIPE BE LAID IN A TRENCH WHERE STANDING WATER IS PRESENT OR WHERE THE GROUNDWATER TABLE IS LESS THAN 12-INCHES BELOW THE BOTTOM OF THE TRENCH. A DEWATERING SYSTEM SHALL BE UTILIZED BY THE CONTRACTOR IN ACCORDANCE WITH GENERALLY ACCEPTABLE PRACTICES AND SHALL BE CAPABLE OF LOWERING THE GROUNDWATER TABLE ELEVATION IN ADVANCE OF EXCAVATION TO KEEP TRENCH BOTTOM AND SIDES FIRM AND DRY, (12-INCH MINIMUM BELOW THE TRENCH BOTTOM). NO POLLUTED WATER SHALL BE DISCHARGED INTO SANITARY SEWER, STORM SYSTEM, OR BODIES OF WATER. DEWATERING SHALL BE INCLUDED IN CONTRACTOR'S BASE BID PRICE. DEWATERING SHALL COMPLY WITH ALL PERMITS AS PROVIDED IN THE CONTRACT DOCUMENTS.
13. USE TEMPORARY SHEETING OR TRENCH BOXES TO MINIMIZE THE SIZE OF THE EXCAVATIONS AND TO PROTECT ADJACENT EXISTING ROADWAYS, UTILITIES AND OTHER FACILITIES. THERE SHALL BE NO ADDITIONAL COST TO THE OWNER UNLESS THE CONTRACTOR IS DIRECTED TO LEAVE THE SHEETING IN PLACE. OVERNIGHT SHEETING WILL NOT BE CUSTOMARY ON THIS PROJECT AND APPROVAL BY CDD AND OWNER ON A CASE BY CASE WILL BE REQUIRED.
14. BACKFILL ALL TRENCHES AT THE END OF EACH DAY'S WORK. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT UNLESS OTHERWISE APPROVED BY CDD ENGINEERING INSPECTOR. THE ENDS OF ALL PIPE SHALL BE PLUGGED AT THE CLOSE OF EACH DAY'S WORK.
15. PRIOR TO ANY CONSTRUCTION, CONTRACTOR SHALL SUBMIT AND OBTAIN APPROVAL OF A PLAN FOR VEHICULAR AND PEDESTRIAN SAFETY TO THE CITY OF SUNRISE. THE PLAN SHALL INCLUDE TEMPORARY FENCING TO PROTECT AND SECURE THE WORK AREA, TEMPORARY SIDEWALKS AS REQUIRED FOR PEDESTRIAN TRAFFIC AND SAFETY, AND VEHICULAR AND PEDESTRIAN WARNING AND SAFETY SIGNS AS REQUIRED. ALL NECESSARY APPROVALS AND PERMITS SHALL BE OBTAINED PRIOR INITIATING CONSTRUCTION ACTIVITIES.
16. THE REFERENCE DATUM USED FOR VERTICAL ELEVATIONS IS THE NORTH AMERICAN VERTICAL DATUM, 1988 (NAVD 1988) UNLESS OTHERWISE NOTED.

- 17. CONTRACTOR SHALL PROVIDE PROFILE VIEWS OF THE DIRECTIONAL BORE INSTALLATION
18. FOR CHANGES IN THE WORK, THE CONTRACTOR WILL BE REQUIRED TO SUBMIT THE REVISIONS PRIOR TO ANY INSPECTIONS BY THE CITY.
19. ALL BURIED WATER MAIN PIPE, INCLUDING FITTINGS, SHALL BE COLOR CODED OR MARKED USING BLUE AS PREDOMINANT COLOR TO DIFFERENTIATE DRINKING WATER FROM RECLAIMED OR OTHER WATER. UNDERGROUND PLASTIC PIPE SHALL BE SOLID-WALL BLUE PIPE. SHALL HAVE CO-EXTRUDED BLUE EXTERNAL SKIN, OR SHALL BE WHITE OR BLACK PIPE WITH BLUE STRIPES APPLIED TO THE PIPE WALL. PIPE STRIPED DURING MANUFACTURING OF THE PIPE SHALL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 90° INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT USED TO STRIPE.
20. AIR RELEASE VALVE (ARV) LOCATIONS ARE AT PROPOSED HIGH POINTS AND ARE SUBJECT TO CHANGE DUE TO ACTUAL FIELD CONDITIONS.
21. ALL TRAFFIC SIGNAGE AND PAVEMENT MARKINGS TO BE PROVIDED IN CONFORMANCE WITH BROWARD COUNTY TRAFFIC ENGINEERING DIVISION (BCTED) & MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS.
22. ALL OFFSITE PAVEMENT MARKINGS & SIGNAGE SHALL BE APPROVED BY BCTED.
23. THE CONTRACTOR SHALL CLEAN THE EXISTING STORM DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS UPON COMPLETION OF CONSTRUCTION.
24. SERVICE LINE TO WATER METER SHALL BE ONE-SIZE LARGER THAN METER, EXCEPT FOR A 2-INCH METER SHALL HAVE A 2-INCH SERVICE LINE. SERVICES FOR METERS LARGER THAN 2-INCH WILL BE APPROVED BY CDD.
25. WATER SERVICE CASINGS TO BE TWO (2) TIMES GREATER THAN SERVICE LINE AND EXTEND 2- FEET BEYOND THE RIGHT OF WAY, PAVEMENT EDGE, BACK OF CURB AND/OR BACK OF SIDEWALK, WHICHEVER IS FARTHEST.
26. WATER PUMPED FROM THE TRENCH OR OTHER EXCAVATION SHALL BE DISPOSED OF IN STORM SEWERS HAVING ADEQUATE CAPACITY, CANALS OR SUITABLE DISPOSAL PITS. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ALL PERMITS REQUIRED TO DISCHARGE THE WATER AND SHALL PROTECT WATERWAYS FROM TURBIDITY DURING THE DEWATERING OPERATION. IN AREAS WHERE ADEQUATE DISPOSAL SITES ARE NOT AVAILABLE, PARTIALLY BACKFILLED TRENCHES MAY BE USED FOR WATER DISPOSAL ONLY WHEN THE CONTRACTOR'S PLAN FOR TRENCH DISPOSAL IS APPROVED IN WRITING BY THE ENGINEER. THE CONTRACTOR'S PLAN SHALL INCLUDE TEMPORARY CULVERTS, BARRICADES AND OTHER PROTECTIVE MEASURES TO PREVENT DAMAGE TO PROPERTY OR INJURY TO ANY PERSON OR PERSONS. NO FLOODING OF STREETS, ROADWAYS, DRIVEWAYS OR PRIVATE PROPERTY WILL BE PERMITTED. ENGINES DRIVING DEWATERING PUMPS SHALL BE EQUIPPED WITH CRITICAL GRADE MUFFLERS.
GAS NOTES PER CITY OF SUNRISE
1. WATER METERS LARGER THAN 3/4" BY 3/8" REQUIRE LARGER METER BOX OF 11" X 17".
2. SUNRISE GAS DOES HAVE NATURAL GAS FACILITIES WITHIN THE AREA OF THE PROPOSED PROJECT LIMITS: AREA 2 - 4-INCH MAIN RUNS NW TO SE ALONG THE NORTHEAST SIDE OF SADDLE CLUB ROAD THE ELBOWS SW AND CROSS TO THE SOUTH SIDE OF SADDLE CLUB ROAD THE ELBOWS EAST ALONG SADDLE CLUB ROAD.
3. SUNRISE GAS DESIRES TO MAINTAIN ITS FACILITIES IN PLACE.
4. PLEASE CONTACT THE UTILITY GAS DIVISION FORTY EIGHT (48) HOURS IN ADVANCE OF THE PROJECT CONSTRUCTION DATE AT (954)-572-2299.
5. THE UTILITIES GAS DIVISION DESIRE TO HAVE A REPRESENTATIVE ON SITE TO MONITOR THE CONSTRUCTION AROUND ITS FACILITIES.
6. SUNRISE GAS REQUIRES A THREE-FOOT HORIZONTAL SEPARATION FROM ANY NEW UNDERGROUND FACILITY RUNNING PARALLEL TO ITS EXISTING MAINS OR SERVICES.
7. SUNRISE GAS REQUIRES A FIVE-FOOT HORIZONTAL SEPARATION FROM ANY POLE/SIGN/SUPPORT/FOOTING.
8. SUNRISE GAS REQUIRES A VERTICAL SEPARATION OF TWELVE-INCH BETWEEN ITS FACILITIES AND ANY FOREIGN UNDERGROUND CROSSING.
9. SUNRISE GAS REQUIRES A MINIMUM OF THIRTY SIX INCH OF COVER ABOVE ITS UNDERGROUND FACILITIES.
10. NATURAL GAS MAIN LOCATIONS SHOWN ON THE ATTACHED DRAWING ARE APPROXIMATE.
11. PLEASE CALL SUNSHINE STATE ONE-CALL AT 1-800-638-4097 PRIOR TO ANY CONSTRUCTION ACTIVITIES.
12. GAS VALVES ARE NOT TO BE COVERED DURING THE MILLING AND RESURFACING OPERATIONS.
ADDITIONAL NOTES PER CITY OF SUNRISE
1. NO VALVES IN CURB, SIDEWALK, OR DRIVEWAYS.
2. ALL WATER MAIN INSTALLATIONS SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-555 OF THE FAC AS APPLICABLE.
3. RESTORE EXISTING VALVES AND MANHOLES AT PROPOSED CONNECTIONS TO CITY STANDARDS.
4. WATER SERVICE TAPS TO BE MINIMUM OF 3- FEET APART FROM OTHER SERVICE TAPS, VALVE, AND FITTINGS.
5. MAINTAIN MINIMUM VERTICAL SEPARATION FOR UTILITY CROSSINGS - 18-INCHES FOR SEWER CROSSINGS AND 12-INCHES FOR ALL OTHERS (MEASURED FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE - ACCOUNT FOR WALL THICKNESS OF ALL PIPES).
6. MAINTAIN MINIMUM HORIZONTAL SEPARATION OF 10- FEET BETWEEN WATER MAIN AND SEWER MAINS; WATER SERVICES AND SEWER SERVICES.
7. CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OF ANY DAMAGES INCURRED AT THEIR OWN EXPENSE.
8. CITY OF SUNRISE DETAILS AND SPECIFICATIONS WILL GOVERN FOR WATER DISTRIBUTION INSTALLATION.
9. CONTRACTOR IS TO POTHOLE EACH SERVICE LINE CONNECTION FOR EXISTING WATER MAINS TO DETERMINE THE CONDITION OF THE SADDLE AND CORPORATION STOP AND APPLY ONE OF THE FOLLOWING:
A) SADDLE/CORP. IN GOOD CONDITION ARE TO REMAIN.
B) OLD SADDLE IS TO BE REPLACED AND CORP. STOP IN GOOD CONDITIONS IS TO REMAIN.
C) OLD SADDLE/CORP. STOP ARE TO BE REPLACED. EXISTING SADDLE/CORP. STOP SHALL BE REMOVED AND MAIN SHALL BE WRAPPED.
10. ALL REMOVED MATERIAL CANNOT BE REUSED OR RELOCATED, FIRE HYDRANTS CANNOT BE RELOCATED.
11. NOTIFICATION LETTERS MUST BE SENT IF SHUTTING DOWN WATER TO RESIDENCES.

- 12. EXISTING WATER SERVICES ARE TO BE CUT AND ABANDONED IN PLACE.
13. CONTRACTOR IS TO IDENTIFY MULTIPLE LOCATIONS FOR SADDLE AND/OR CORP. STOP REPLACEMENT PRIOR TO REQUESTING SHUT DOWN OF EXISTING WATER MAIN.
14. PROVIDE TWO VALVES AT CONNECTION POINT(S) FOR TESTING PURPOSES; FILL AND FLUSH CONNECTION
15. VALVE SPACING NOT TO EXCEED 1,000 FEET.
16. VALVES SHALL BE LOCATED ON BRANCH SIDE OF TEES AND WITHIN 3- FEET OF TEES.
17. PROVIDE BLUE RPM FOR FIRE HYDRANTS.
18. FIRE HYDRANTS MUST BE FREE OF ANY SCREENING (INCLUDING LANDSCAPING) FOR A DIAMETER OF 8- FEET AROUND FIRE HYDRANT PER CITY CODE SECTION 15-41.
19. FIRE HYDRANTS MUST BE LOCATED WITHIN 3-1/2 TO 5 FEET FROM BACK OF CURB AND SIDEWALKS UNLESS SHOWN ON SWALE AREAS AT 18 INCHES IN FRONT OF SIDEWALK.
20. WATER METERS CANNOT BE LOCATED IN SIDEWALKS OR DRIVEWAYS.
21. FLOWABLE FILL FOR THE SERVICES TRENCH RESTORATION.
22. CONTRACTOR IS TO REPLACE ALL EXISTING WATER BOXES WITHIN THE PROJECT LIMITS WITH NEW COR BOXES TO BE PROVIDED BY THE CITY OF SUNRISE.
23. RELOCATED METERS THAT ARE TWELVE (12) YEARS AND OLDER WILL BE REPLACED WITH NEW METERS TO BE PROVIDED BY THE CITY OF SUNRISE.

FIRE DEPARTMENT NOTES PER CITY OF SUNRISE

- 1. FIRE HYDRANTS SHALL BE CLEARLY VISIBLE FROM STREET AND ACCESSIBLE TO FIRE DEPARTMENT.
2. NOTIFY FIRE DEPARTMENT FOR ANY TYPE OF ROADWORK THAT MAY INTERFERE WITH EMERGENCY RESPONSE I.E. ROAD CLOSURE, LANE CLOSURE, ETC.
3. NOTIFY FIRE DEPARTMENT IF ANY AREA IN SCOPE WILL BE WITHOUT FIRE HYDRANT SERVICE WHILE WORK IS BEING PERFORMED.
4. FIRE HYDRANTS SHALL BE PROTECTED IF SUBJECT TO MECHANICAL DAMAGE. PROTECTIVE BOLLARDS SHALL NOT BE LOCATED WITHIN 4' RADIUS OF FIRE HYDRANT.

BROWARD COUNTY TRAFFIC ENGINEERING DIVISION PROCEDURE FOR NOTIFICATION OF COMMUNICATION DISRUPTION

COPPER INTERCONNECT CABLE NOTIFICATION CONTACT PERSON

WHEN COMMUNICATIONS TO AND INTERSECTION MUST BE DISRUPTED BY A CONTRACTOR TO PERFORM WORK, THE CONTRACTOR SHALL PROVIDE TWO DAY ADVANCE NOTICE IN WRITING TO THE BROWARD COUNTY TRAFFIC ENGINEERING DIVISION. THIS NOTIFICATION SHALL BE CONVEYED VIA ELECTRONIC MAIL (EMAIL) TO THE TRAFFIC SIGNAL TECHNICIAN III AT TECOMMUNICATIONS@BROWARD.ORG. NOTIFICATION SHALL INCLUDE CONTACT PERSON, TELEPHONE NUMBER, PURPOSE, LOCATION AND DURATION. THE DISRUPTION SHALL LAST FOR NO MORE THAN 3 CONSECUTIVE BUSINESS DAYS. WHERE POSSIBLE, THE DISRUPTION SHALL BE DURING OFF PEAK HOURS BEGINNING AT 9:00AM AND ENDING AT 3:00PM.

FIBER OPTIC CABLE NOTIFICATION CONTACT PERSON

WHEN COMMUNICATIONS TO AN INTERSECTION MUST BE DISRUPTED BY A CONTRACTOR TO PERFORM WORK, THE CONTRACTOR SHALL PROVIDE TWO DAY ADVANCE NOTICE IN WRITING TO THE BROWARD COUNTY TRAFFIC ENGINEERING DIVISION. THIS NOTIFICATION SHALL BE CONVEYED VIA ELECTRONIC MAIL (EMAIL) TO THE COMMUNICATIONS MANAGER AT TECOMMUNICATIONS@BROWARD.ORG. NOTIFICATION SHALL INCLUDE CONTACT PERSON, TELEPHONE NUMBER, PURPOSE, LOCATION AND DURATION. THE DISRUPTION SHALL LAST FOR NO MORE THAN 3 CONSECUTIVE BUSINESS DAYS. WHERE POSSIBLE, THE DISRUPTION SHALL BE DURING OFF PEAK HOURS BEGINNING AT 9:00AM AND ENDING AT 3:00PM.

NOTES

- 1. ALL WORK WITHIN THE RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH BROWARD COUNTY MINIMUM STANDARDS AND F.O.D.T. SPECIFICATIONS.
2. ALL PAVEMENT MARKINGS AND SIGNING DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO BROWARD COUNTY TRAFFIC ENGINEERING STANDARDS (CURRENT ADDITION).
3. ALL PAVEMENT MARKING AND SIGNING SHALL CONFORM TO BROWARD COUNTY TRAFFIC ENGINEERING STANDARDS (CURRENT ADDITION).
4. ALL SIGNAL/STREET LIGHT FACILITIES DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO BROWARD COUNTY TRAFFIC ENGINEERING STANDARDS (CURRENT ADDITION).

MAINTENANCE OF TRAFFIC SCHOOL/PEDESTRIAN

THE MAINTENANCE OF TRAFFIC PLAN, PROVIDED BY THE CONTRACTOR, SHALL INCLUDE PROVISIONS FOR PEDESTRIAN AND/OR SCHOOL STUDENT TRAFFIC AS WELL AS VEHICULAR TRAFFIC. THE FOLLOWING ARE MINIMUM REQUIREMENTS.

- 1. THE SAFE WALK ROUTE FOR ALL SCHOOL STUDENTS WITHIN THE VICINITY OF THE CONSTRUCTION ZONE SHALL BE MAINTAINED DURING THE TIMES STUDENTS ARE ARRIVING AT OR LEAVING SCHOOL. IF THE CURRENT WALKING SURFACE CANNOT BE MAINTAINED, THEN A TEMPORARY ROAD-ROCK 4' WALK WAY SHALL BE CREATED. THE SAFE WALK ROUTE SHALL BE SEPARATED FROM THE CONSTRUCTION ACTIVITY BY THE 4' HIGH ORANGE CONSTRUCTION FENCE FOR THE ENTIRE LENGTH OF THE PROJECT OR THE LENGTH OF THE WALK ROUTE, WHICHEVER IS LESS.
2. ALL CONSTRUCTION EQUIPMENT AROUND ANY DESIGNATED CROSSWALK SHALL CEASE TO OPERATE DURING THE TIMES STUDENTS ARE ARRIVING AT OR LEAVING SCHOOL. ALL CONSTRUCTION EQUIPMENT ADJACENT TO A DESIGNATED WALK ROUTE SHALL CEASE OPERATING UNLESS SATISFACTORILY BARRICADED FROM THE WALK ROUTE.
3. IN THE CASE THAT A DESIGNATED CROSSING OR ANY PORTION OF THE DESIGNATED WALK ROUTE CANNOT BE MAINTAINED, THEN THE CONTRACTOR SHALL NOTIFY THE SPECIAL PROJECTS COORDINATOR AT BROWARD COUNTY TRAFFIC ENGINEERING DIVISION, 954-847-2671, A MINIMUM OF TEN (10) WORKING DAYS PRIOR TO CLOSING THAT ROUTE. IN ORDER THAT AN ALTERNATE CROSSING/ROUTE CAN BE ESTABLISHED.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL ANY NECESSARY PAVEMENT, ROAD ROCK, PAVEMENT MARKING AND SIGNAGE AND/OR ANY PEDESTRIAN SIGNALIZATION AND/OR SIGNAL MODIFICATION TO ACCOMMODATE AND EXISTING OR ALTERNATE WALK ROUTE.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE STATE CERTIFIED SCHOOL CROSSING GUARDS OR OFF DUTY POLICE OFFICERS TO CROSS STUDENTS AT ANY LOCATIONS OTHER THAN THOSE PREVIOUSLY DESIGNATED. THE CONTRACTOR MAY USE FLAGMEN, ONLY IF THEY ARE STATE CERTIFIED AS A SCHOOL CROSSING GUARD.
6. THIRTY (30) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE SPECIAL PROJECTS COORDINATOR AT BROWARD COUNTY TRAFFIC ENGINEERING DIVISION, 954-847-2671, TO ARRANGE A PRE-CONSTRUCTION - SCHOOL SAFETY MEETING.

- 7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE BROWARD COUNTY SCHOOL BOARD PUPIL TRANSPORTATION DEPARTMENT TO ARRANGE A PRE-CONSTRUCTION SCHOOL BUS ROUTE MEETING AT THE FOLLOWING:
RUTH MASTERS BROWARD COUNTY SCHOOL BOARD & FLEET SERVICE 754-321-4400 EXT. # 2309
VINCENT HARRELL BROWARD COUNTY SCHOOL BOARD & FLEET SERVICE 754-321-4472
MARY TOCHTERMANN STUDENT TRANSPORTATION & FLEET SERVICE 754-321-4406 EXT. # 2006

THIS MEETING IS TO DETERMINE ALL BUS ROUTES AND TO MAKE ANY NECESSARY ARRANGEMENTS FOR ROUTING. THIS MEETING SHALL INCLUDE THE SPECIAL PROJECTS COORDINATOR FROM BROWARD COUNTY TRAFFIC ENGINEERING DIVISION, 954-847-2671.

- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A SAFE AND ADEQUATE WALKING SURFACE FOR ALL SCHOOL CHILDREN/PEDESTRIAN. THE SAFE WALK ROUTE SHALL BE PART OF THE MAINTENANCE OF TRAFFIC PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN APPROVED MAINTENANCE OF TRAFFIC PLAN (MOT), INCLUDING THE ABOVE SCHOOL/PEDESTRIAN CONDITIONS, THROUGH BROWARD COUNTY TRAFFIC ENGINEERING DIVISION. THE CONDITIONS OUTLINED IN THE MOT ARE IN FORCED AND FULLY EFFECTIVE AS PART OF THE PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL WORK ASSOCIATED WITH THIS PROJECT IS IN COMPLIANCE WITH ALL THE REQUIREMENTS OF THE APPROVED MOT, INCLUDING THE ABOVE SCHOOL/PEDESTRIAN CONDITIONS.
9. THE CONTRACTOR SHALL ENSURE THAT THERE ARE NO SPEED LIMIT SIGNS INSTALLED WITHIN THE DESIGNATED REDUCED SCHOOL ZONE, AT ANY TIME THROUGHOUT THE PROJECT.
10. CONTRACTOR SHALL PROVIDE MAINTENANCE OF TRAFFIC PLANS (MOT) IN ACCORDANCE WITH FDOT INDEX, INCLUDE FDOT INDEX NO. 102-660 AND 102-603 FROM THE FDOT FY 2020-2021 STANDARDS PLANS IN THE MOT PLANS.

BROWARD COUNTY TRAFFIC ENGINEERING DIVISION (BCTED) COMMUNICATION NOTES

- 1. THE AGENCY RESPONSIBLE FOR MAINTENANCE OF THE TRAFFIC SIGNALS AND RELATED EQUIPMENT IS BROWARD COUNTY TRAFFIC ENGINEERING DIVISION (BCTED). ALL SYSTEM COMMUNICATIONS EQUIPMENT, CABLING AND RELATED MATERIAL SHALL COMPLY WITH BROWARD COUNTY'S LATEST EDITION OF THE MINIMUM STANDARDS AS EXPRESSED IN THE "STANDARDS AND SPECIFICATIONS COMMUNICATION INFRASTRUCTURE" DOCUMENT. PLEASE REFER TO (BCTEDS) COMMUNICATION POLICIES AND PROCEDURES FOR ADDITIONAL INFORMATION. BROWARD COUNTY TRAFFIC ENGINEERING DIVISION WILL NOT ACCEPT ANY PROJECT THAT DO NOT MEET THE STANDARDS AND SPECIFICATIONS. IF FIBER OPTIC PULL BOXES ALREADY EXIST AT AN INTERSECTION, NO ADDITIONAL FIBER OPTIC PULL BOXES WILL NEED TO BE INSTALLED. FOR A COPY OF THESE STANDARDS REFER TO THE BROWARD COUNTY.

WEB SITE AT WWW.BROWARD.ORG/TRAFFIC UNDER PUBLICATIONS.

- 2. IF THERE ARE COPPER INTERCONNECT CABLE/S WITHIN YOUR PROJECT LIMITS OR WITHIN 1500 FEET OF YOUR PROJECT LIMITS, CONTACT THE COMMUNICATIONS MANAGER AT TECOMMUNICATIONS@BROWARD.ORG OR 954-847-2745.
3. IF THERE ARE FIBER OPTIC CABLE/S WITHIN YOUR PROJECT LIMITS OR WITHIN 1500 FEET OF YOUR PROJECT LIMITS CONTACT THE COMMUNICATIONS MANAGER AT TECOMMUNICATIONS@BROWARD.ORG OR 954-847-2745.
4. IF THERE ARE CELLULAR COMMUNICATIONS WITHIN YOUR PROJECT LIMITS, CONTACT THE COMMUNICATIONS MANAGER AT TECOMMUNICATIONS@BROWARD.ORG OR 954-847-2745.
5. ALL BCTED COMMUNICATIONS CABLES/CONDUIT SHALL BE LOCATED A MINIMUM OF 48 HOURS IN ADVANCE.

BROWARD COUNTY TRAFFIC ENGINEERING DIVISION MARKING AND SIGNING NOTES

THE FOLLOWING ITEMS ARE NOT REVIEWED OR ACCEPTED BY BROWARD COUNTY:

- 1. BROWARD COUNTY TRAFFIC ENGINEERING DIVISION'S REVIEW DOES NOT INCLUDE A REVIEW AND ACCEPTANCE OF THE PROJECT'S DESIGN OR OPERATION. THESE ITEMS ARE TO BE REVIEWED AND APPROVED BY THE CITY ENGINEER.
2. BROWARD COUNTY TRAFFIC ENGINEERING DIVISION DOES NOT REVIEW AND APPROVE, OR INSPECT AND ACCEPT THE FOLLOWING ITEMS FOR MAINTENANCE: PAVEMENT MARKINGS ON OR ADJACENT TO PAVEMENT BRICKS, PAINTED ASPHALT, STAMPED ASPHALT OR PAVEMENT MARKINGS MADE OF PAVEMENT BRICKS, RAISED INTERSECTIONS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED MID-BLOCK CROSSWALKS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED CROSSWALKS AND RELATED MARKINGS AND SIGNING, PAINTED/DECORATIVE CROSSWALKS, RAISED CROSSWALKS AND RELATED MARKINGS AND SIGNING, ADVANCED WARNING PAVEMENT MARKINGS FOR SPEED TABLES, BLUNKER SIGNS, RECTANGULAR RAPID FLASHER BEACONS AND RELATED MARKINGS AND SIGNING, ON-STREET PARKING AND RELATED MARKINGS AND SIGNING, IN-ROAD LIGHTING AND RELATED MARKINGS AND SIGNING, GREEN BIKE LANES, FLEXIBLE DELINEATORS, DECORATIVE SIGNS AND SIGNING, SIGN POSTS, PLANTERS, ON-SITE PAVEMENT MARKINGS AND SIGNING, OFF-SITE PAVEMENT MARKINGS AND SIGNING IN RIGHT-OF-WAY THAT IS NOT DEDICATED FOR PUBLIC USE, SIDEWALK WORK OR ASPHALT WORK.
3. THE CITY ENGINEER IS RESPONSIBLE FOR THE REVIEW AND APPROVAL OF THE DESIGN AND OPERATION OF THE PROJECT, AND FOR THE INSPECTION AND ACCEPTANCE OF THE FOLLOWING ITEMS THAT WILL BE MAINTAINED BY THE CITY: PAVEMENT MARKINGS ON OR ADJACENT TO PAVEMENT BRICKS, PAINTED ASPHALT, STAMPED ASPHALT OR PAVEMENT MARKINGS MADE OF PAVEMENT BRICKS, PAVEMENT MARKINGS ON OR ADJACENT TO PAINTED ASPHALT, RAISED INTERSECTIONS AND RELATED MARKINGS AND SIGNING, UNWARRANTED MID-BLOCK CROSSWALKS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED CROSSWALKS AND RELATED MARKINGS AND SIGNING, PAINTED/DECORATIVE CROSSWALKS AND RELATED MARKINGS AND SIGNING, ADVANCED WARNING PAVEMENT MARKINGS FOR SPEED TABLES, BLUNKER SIGNS, RECTANGULAR RAPID FLASHER BEACONS AND RELATED MARKINGS AND SIGNING, ON-STREET PARKING AND RELATED MARKINGS AND SIGNING, IN-ROAD LIGHTING AND RELATED MARKINGS AND SIGNING, GREEN BIKE LANES, FLEXIBLE DELINEATORS, DECORATIVE SIGNS AND SIGNING, SIGN POSTS, PLANTERS, ON-SITE PAVEMENT MARKINGS AND SIGNING, OFF-SITE PAVEMENT MARKINGS AND SIGNING IN RIGHT-OF-WAY THAT IS NOT DEDICATED FOR PUBLIC USE, SIDEWALK WORK AND ASPHALT WORK.
4. ALL TRAFFIC CONTROL DEVICES MAINTAINED BY BROWARD COUNTY, THAT ARE REMOVED OR DAMAGED BY CONSTRUCTION, SHALL BE REPLACED BY CONTRACTOR USING CURRENT BROWARD COUNTY TRAFFIC ENGINEERING DIVISION STANDARDS.

This item has been digitally signed and sealed by Heidi Amigot, PE, On 02/01/2022 using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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DESIGNED BY: HA
DRAWN BY: HA
CHECKED BY: S.J.R.
SCALE: N/A

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BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS
AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE: GENERAL NOTES

Professional Engineer Seal for Heidi Amigot, License No. 88545, State of Florida. DATE: 01/28/2021, DRAWING NO.: G-4





**STORMWATER POLLUTION PREVENTION PLAN NOTES**

**SITE DESCRIPTION:**

PROJECT NAME: BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS  
PROJECT ADDRESS: BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE, WESTON, FLORIDA 33326  
SECTION: 07, 08 TOWNSHIP: 50S RANGE: 40E  
OWNER'S NAME: CITY OF SUNRISE  
OWNER'S ADDRESS: CITY OF SUNRISE UTILITIES DEPARTMENT, SUNRISE, FLORIDA 33325

**NATURE OF CONSTRUCTION ACTIVITIES:**

THIS PROJECT WILL CONSIST OF THE REPLACEMENT OF APPROXIMATELY 480 WATER METERS, 510 - 50 FEET (AVERAGE) WATER SERVICE LINES, AND 4-INCH AND 2-INCH GALVANIZED DEAD-END LINES THROUGHOUT A PORTION OF THE BONAVENTURE COMMUNITY.

SOIL DISTURBING ACTIVITIES WILL INCLUDE: WATER METER INSTALLATION, TRENCH RESTORATION ALONG THE SERVICE LINES AND PROPOSED WATER MAIN, PAVEMENT, EXISTING SIDEWALKS, CURBS, AND DRIVEWAY RESTORATION TO PREVIOUS CONDITIONS.

**SEQUENCE OF MAJOR EVENTS:**

1. INSTALL SILT FENCES AND STABILIZED CONSTRUCTION ENTRANCES AROUND DISTURBED AREAS (SEE EROSION CONTROL PLAN).
2. INSTALL INLET PROTECTION DEVICES FOR ALL EXISTING GRATE INLETS AND AT THE END OF ALL EXPOSED STORM SEWER PIPES, IF PRESENT.
3. COMMENCE GRUBBING AND REMOVAL OF VEGETATION IN AREA TO RECEIVE CUT OR FILL.
4. INSTALL ALL UNDERGROUND UTILITIES.
5. FINALIZE PAVEMENT SUBGRADE PREPARATION.
6. REMOVE SILT FENCES AROUND INLETS AND MANHOLES NO MORE THAN 48 HOURS PRIOR TO PLACING STABILIZED BASE COURSE.
7. INSTALL BASE MATERIAL AS REQUIRED FOR PAVEMENT, CURB & GUTTER.
8. INSTALL ALL PAVING, CURB & GUTTER.
9. REMOVE SILT FENCES, AND INLET PROTECTION DEVICES.
10. RESTORE AND STABILIZE VEGETATED AREAS.

**AREA ESTIMATES:**

THE PROJECT SITE IS APPROXIMATELY 198.3± ACRES AND 2.01± ACRES WILL BE DISTURBED BY CONSTRUCTION ACTIVITIES.

**RUNOFF COEFFICIENT, SOILS AND RAINFALL INFORMATION:**

THE INITIAL COEFFICIENT FOR THE PRE-CONSTRUCTION SITE IS 'c' = 0.25. THE POST-CONSTRUCTION COEFFICIENT OF RUNOFF FOR THE SITE WILL BE 'c' = 0.70. THE PROJECT SITE IS APPROXIMATELY 198.3± ACRES AND 2.01± ACRES WILL BE DISTURBED BY CONSTRUCTION ACTIVITIES.

ACCORDING TO THE USDA SOIL SURVEY FOR BROWARD, THE SOIL IS DESCRIBED AS DANIA LAUDERHILL AND PLANTATION MUCK COMPLEX.

THE SITE IS IN BROWARD WHICH RECEIVES AN AVERAGE OF 63" OF RAINFALL ANNUALLY.

**CUT/FILL INFORMATION: N/A**

**SITE MAP:**

THE CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAPS. THE LOCATION OF THE REQUIRED INFORMATION IS DESCRIBED BELOW. THE SHEET NUMBERS FOR THE PLAN SHEETS REFERENCED ARE IDENTIFIED ON THE KEY SHEET OF THESE CONSTRUCTION PLANS.

- AREAS OF SOIL DISTURBANCE: THE AREAS TO BE DISTURBED ARE INDICATED ON THE WATER MAIN ABANDONMENT AND LAYOUT SHEETS AND WATER MAIN PLAN SHEETS. ANY AREAS WHERE PERMANENT FEATURES ARE SHOWN TO BE CONSTRUCTED ABOVE OR BELOW GROUND WILL BE DISTURBED.
- AREAS NOT TO BE DISTURBED: ALL WORK TO BE COMPLETED IN THE RIGHT OF WAY AND EASEMENTS. NO WORK IS TO BE DONE ON PRIVATE PROPERTY WITHOUT AUTHORIZATION FROM THE CITY OF SUNRISE.
- LOCATIONS OF TEMPORARY CONTROLS: THESE ARE SHOWN ON THE STORMWATER POLLUTION PREVENTION PLAN SHEETS.
- LOCATIONS OF PERMANENT CONTROLS: N/A
- SURFACE WATERS: THE ONLY SURFACE WATER WITHIN THE SITE IS A CANAL.
- DISCHARGE POINTS TO SURFACE WATERS: THERE IS NONE.

**NAME OF RECEIVING WATERS: N/A**

**WETLAND AREA: N/A**

**EROSION AND SEDIMENT CONTROLS:**

**STABILIZATION PRACTICES:**

THE CONTRACTOR SHALL DENUDE ONLY AREA WHERE IT IS EXPECTED TO BE GRADED OR ALTERED WITH A TWO (2) WEEK TIME FRAME. ALL PERVIOUS AREAS OF THE SITE INCLUDED IN GRADING THAT ARE DISTURBED DURING CONSTRUCTION SHALL BE GRADED AND PREPARED WITH COMBINATION OF SOD AND/OR SEEDING AND MULCHED.

**TEMPORARY STABILIZATION** - TOP SOIL STOCK PILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR AT LEAST 21 DAYS SHALL BE STABILIZED WITH TEMPORARY SEED AND MULCH NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY IN THAT AREA. GRASS SEED SHALL BE A MIXTURE OF 20 PARTS OF BERMUDA AND 80 PARTS OF PENSACOLA BAHIA. THE SEPARATE TYPES OF SEED USED SHALL BE THOROUGHLY DRY MIXED IMMEDIATELY BEFORE SOWING. SEED WHICH HAS BECOME STRAW OR HAY CONSISTING OF OAT, RYE OR WHEAT STRAW, OR OF PANOLA, PEANUT, COASTAL BERMUDA OR BAHIA GRASS HAY. ONLY UN-DETERIORATED MULCH WHICH CAN BE READILY CUT INTO THE SOIL SHALL BE USED. AREAS OF THE SITE WHICH ARE TO BE PAVED WILL BE TEMPORARILY STABILIZED BY APPLYING STABILIZATION AND BASE UNTIL BITUMINOUS PAVEMENT CAN BE APPLIED.

**PERMANENT STABILIZATION** - DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY PERMANENTLY CEASES SHALL BE STABILIZED WITH SOD NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY.

**WIND EROSION STABILIZATION** - AREAS WITHIN FUTURE UNITS WHERE EARTHWORK IS COMPLETED SHALL BE COMPLETELY SEEDDED AND MULCHED. AREAS WHERE CONSTRUCTION OPERATIONS WILL BE CONTINUOUS, FUGITIVE DUST SHALL BE MANAGED BY APPLYING A WATER SPRAY TO SATURATE THE SURFACE SOILS ON A DAILY BASIS (OR AS NEEDED) TO MAINTAIN MINIMAL DUST TRANSPORT. FUGITIVE DUST SHALL BE MONITORED CONTINUOUSLY AND ADDITIONAL MEASURES MAY NEED TO BE TAKEN TO CONTROL OFF SITE TRANSPORT OF UNACCEPTABLE LEVELS OF DUST.

**STRUCTURAL PRACTICES:**

**EROSION PROTECTION** - DURING THE CONSTRUCTION PHASES, APPROPRIATE PRACTICES INCLUDING, BUT NOT LIMITED TO: SILT FENCE BARRIERS, STABILIZED CONSTRUCTION ENTRANCES, ROCK CHECK DAMS, INLET PROTECTION WITH BLOCK AND GRAVEL AND FABRIC MATERIAL, AND WATERING OR OTHER METHODS NECESSARY WILL BE IMPLEMENTED TO CONTROL EROSION.

**SEDIMENT TRAPS** - CONTRACTOR SHALL EXCAVATE AROUND ALL ON-SITE DRAINAGE INLETS AND PROVIDE EROSION CONTROL AND OVERFLOW MEASURES WHICH SHALL SERVE AS LOCALIZED TEMPORARY SEDIMENT TRAPS. AT THE CONTRACTOR'S DISCRETION, THE AREAS SURROUNDING THE ON-SITE INLETS CAN BE EXCAVATED AS MUCH AS TWO FEET BELOW THE EXISTING GROUND IN ORDER TO ALLOW ANY SILT TO BE COLLECTED AND REMOVED PRIOR TO COMPLETION OF THE GRADING.

**STORM WATER MANAGEMENT**

STORM WATER DRAINAGE WILL BE PROVIDED BY AN ON-SITE STORM DRAIN AND CATCH BASIN SYSTEM. ANY ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE SEDIMENT BASINS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONSTRUCT AND CONTINUALLY MAINTAIN ALL STORM DRAINS AND RETENTION/DETENTION AREAS IN ACCORDANCE WITH THE APPROVED CONSTRUCTION PLANS.

**SPECIFIED OTHER CONTROLS:**

**WASTE DISPOSAL**

**WASTE MATERIALS** - ALL WASTE MATERIALS SHALL BE COLLECTED AND CONTAINED IN A CONTROLLED AREA PURSUANT TO ANY STATE AND/OR LOCAL SOLID WASTE REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS GENERATED FROM CONSTRUCTION IS TO BE REMOVED FROM THE SITE AND DISPOSED OF APPROPRIATELY. NO CONSTRUCTION MATERIALS SHALL BE BURIED ON SITE. ALL PERSONNEL SHALL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICE STATING THESE PRACTICES SHALL BE POSTED IN THE CONSTRUCTION OFFICE TRAILER. THE JOB SITE SUPERINTENDENT (CONSTRUCTION MANAGER) RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS SHALL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

**HAZARDOUS WASTE** - IF ANY, ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN THE MANNER SPECIFIED BY STATE AND/OR LOCAL REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

**SANITARY WASTE** - ALL SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY STATE AND/OR LOCAL CODES AND REGULATIONS.

**OFFSITE VEHICLE TRACKING**

A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREETS ADJACENT TO THE SITE ENTRANCE WILL BE SWEEP DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE SITE SHALL BE COVERED WITH A TARPULIN.

**TIMING OF CONTROL MEASURES:**

AS INDICATED IN THE SEQUENCE OF MAJOR EVENTS, STAKED SILT FENCE AND STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 21 DAYS SHALL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN 14 DAYS OF THE LAST DISTURBANCE. ONCE CONSTRUCTION ACTIVITIES CEASES PERMANENTLY IN AN AREA, THAT AREA SHALL BE STABILIZED WITH PERMANENT SEE AND MULCH. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SILT FENCE AND/OR CONTROLS SHALL BE REMOVED.

**CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS:**

THE STORM WATER POLLUTION PREVENTION PLAN REFLECTS THE JURISDICTIONAL AND WATER MANAGEMENT DISTRICT REQUIREMENTS FOR STORM WATER MANAGEMENT AND EROSION & SEDIMENT CONTROL AS ESTABLISHED BY THE JURISDICTION'S STORM WATER MANAGEMENT TECHNICAL MANUAL, THE FLORIDA ADMINISTRATIVE CODE, CHAPTER 40E-4 AND 40E-40, AND THE WATER MANAGEMENT DISTRICT.

**SPILL PREVENTION:**

**MATERIAL MANAGEMENT PRACTICES:**

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT SHALL BE USED TO REDUCE THE RISK OF SPILL OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

**GOOD HOUSEKEEPING:**

- 1. THE FOLLOWING GOOD HOUSEKEEPING PRACTICES SHALL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.
- 1. AN EFFORT SHALL BE MADE TO STORE ONLY PRODUCTS REQUIRED TO COMPLETE THE PROJECT.
- 2. ALL MATERIALS STORED ON SITE SHALL BE STORED IN A NEAT ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND IF POSSIBLE, UNDER A ROOF OR OTHER CONTAINED ENCLOSURE.
- 3. PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
- 4. SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
- 5. WHEREVER POSSIBLE, ALL OF THE PRODUCT SHALL BE USED BEFORE DISPOSING OF THE CONTAINER.
- 6. MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED.
- 7. THE SITE SUPERINTENDENT SHALL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ON SITE.

**HAZARDOUS PRODUCTS:**

- THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.
- 1. PRODUCTS SHALL BE KEPT IN ORIGINAL CONTAINERS UNLESS THE CONTAINERS ARE NOT SEALABLE.
- 2. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHEETS (MSDS) SHALL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
- 3. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S AND/OR STATE AND LOCAL RECOMMENDED METHODS OF PROPER DISPOSAL SHALL BE FOLLOWED.

**PRODUCT SPECIFIC PRACTICE**

**PETROLEUM PRODUCTS:**

ALL ON SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE SHALL BE APPLIED ACCORDINGLY TO THE MANUFACTURER'S RECOMMENDATIONS.

**FERTILIZERS:**

FERTILIZERS SHALL BE APPLIED ONLY IN THE MINIMUM AMOUNT RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER SHALL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE SHALL BE IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER SHALL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

**PAINTS:**

ALL CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT SHALL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT SHALL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND/OR STATE AND LOCAL REGULATIONS.

**CONCRETE TRUCKS:**

CONTRACTOR SHALL DESIGNATE AN AREA FOR DISCHARGE OF SURPLUS CONCRETE OR DRUM WASH WATER AND SHALL INSTALL A CONTAINMENT BERM AROUND THIS AREA TO PREVENT RUNOFF TO THE REMAINDER OF THE SITE. HARD DEBRIS SHALL BE DISPOSED OF BY CONTRACTOR UPON COMPLETION OF THE PROJECT.

**SPILL CONTROL PRACTICES:**

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIALS PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

1. MANUFACTURERS RECOMMENDED METHODS FOR SPILL CLEAN UP SHALL BE CLEARLY POSTED AND SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEAN UP SUPPLIES. MATERIAL SAFETY DATA SHEET (MSDS'S) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE SHALL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN THE SWPPP FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE.
2. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEAN UP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS SHALL INCLUDE, BUT NOT BE LIMITED TO: BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER ABSORBENT, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.

3. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
4. THE SPILL AREA SHALL BE KEPT WELL VENTILATED AND PERSONNEL SHALL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH HAZARDOUS SUBSTANCE.
5. SPILLS OF TOXIC OR HAZARDOUS MATERIAL SHALL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.

THE SPILL PREVENTION PLAN SHALL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM RECURRING AND THE CLEAN UP PROCEDURES FOR FUTURE USE. A DESCRIPTION OF THE SPILL, ITS CAUSE AND THE CLEAN UP MEASURES SHALL ALSO BE NOTED. ANY OWNER OR OPERATOR OF A FACILITY WHO HAS KNOWLEDGE OF ANY RELEASE OF A HAZARDOUS SUBSTANCE FROM A FACILITY IN A QUANTITY EQUAL TO OR EXCEEDING THE REPORTABLE QUANTITY IN A 24 HOUR PERIOD SHALL NOTIFY THE STATE WARNING POINT WITHIN ONE WORKING DAY OF THE RELEASE. FDEP 24-HOUR STATE WARNING POINT HOTLINE NUMBER IS 1-800-320-0519.

**TOXIC SUBSTANCES:**

THE FOLLOWING MATERIALS OR SUBSTANCES WITH KNOWN HAZARDOUS PROPERTIES ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION: CLEANING SOLVENTS, DETERGENTS, PETROLEUM BASED PRODUCTS, PAINTS, PAINT SOLVENTS, ACIDS, FERTILIZERS, PESTICIDES, CONCRETE, CONCRETE ADDITIVES, ASPHALTIC CONCRETE, TAR AND SOIL STABILIZATION ADDITIVES.

**APPROVED STATE AND LOCAL PLANS AND PERMITS:**

- FDEP RULE CHAPTER 62-25 F.A.C.
- BROWARD COUNTY ENVIRONMENTAL ENGINEERING AND PERMITTING DIVISION SURFACE WATER MANAGEMENT LICENSE NUMBER:

**MAINTENANCE/INSPECTION PRACTICES:**

**EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES**

THESE ARE THE INSPECTION AND MAINTENANCE PRACTICES THAT SHALL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROL:

5. LESS THAN ONE HALF OF THE SITE SHALL BE DENUDE AT ONE TIME.
6. ALL CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EACH WEEK AND FOLLOWING ANY STORM EVENT OF 0.5-INCHES OR GREATER BY A CONTRACTOR'S REPRESENTATIVE.
7. ALL MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT SHALL BE INITIATED WITHIN 24 HOURS OF REPORT.
8. BUILT UP SEDIMENT SHALL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE SILT FENCE.
9. SILT FENCE SHALL BE INSPECTED REGULARLY FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.
10. THE SEDIMENT BASINS, IF PRESENT, SHALL BE INSPECTED FOR DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT SHALL BE REMOVED WHEN IT REACHES 10% OF THE DESIGN CAPACITY OR AT THE END OF THE JOB.
11. TEMPORARY AND PERMANENT GRASSING AND MULCHING AND SODDING SHALL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
12. A MAINTENANCE INSPECTION REPORT SHALL BE MADE AFTER EACH INSPECTION BY THE CONTRACTOR AND SHALL BE KEPT IN AN ACTIVE LOG READILY AVAILABLE AT THE JOB SITE.
13. EITHER THE SITE SUPERINTENDENT OR HIS DESIGNEES SHALL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE, REPAIR ACTIVITIES AND COMPLETING THE INSPECTION AND MAINTENANCE REPORT.
14. PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES SHALL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY SHALL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ON SITE IN GOOD WORKING ORDER.

**NON-STORM WATER DISCHARGE**

IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WHICH ARE ALLOWED UNDER THE NPDES GENERAL PERMIT MAY OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD. THESE TYPES OF DISCHARGES WILL BE ALLOWED UNDER THE CONDITIONS THAT NO POLLUTANTS WILL BE ALLOWED TO COME IN CONTACT WITH THE WATER PRIOR TO OR AFTER ITS DISCHARGE.

1. DISCHARGES FROM FIREFIGHTING ACTIVITIES.
2. FIRE HYDRANT FLUSHINGS (SEE NOTE BELOW).
3. WATER USED TO SPRAY OFF LOOSE SOLIDS FROM VEHICLES (WASTE WATERS FROM A MORE THOROUGH CLEANING, INCLUDING THE USE OF DETERGENTS OR OTHER CLEANERS IS NOT AUTHORIZED BY THIS PART) OR CONTROL DUST IN ACCORDANCE WITH PART V.D.2.c (2) OF THE GENERAL PERMIT.
4. POTABLE WATER SOURCES SUCH AS WATERLINE FLUSHINGS, ROUTINE EXTERNAL BUILDING WASHDOWN WHICH DOES NOT USE DETERGENTS, IRRIGATION DRAINAGE (WITHOUT DETERGENTS PRESENT) (SEE NOTE BELOW).
5. PAVEMENT WASHWATERS WHERE SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED (UNLESS ALL SPILL MATERIALS HAS BEEN REMOVED) AND WHERE DETERGENTS HAVE NOT BEEN USED.
6. AIR CONDITIONING CONDENSATE.
7. SPRINGS.
8. FOUNDATION OR FOOTING DRAIN FLOWS WHERE NO CONTAMINATION WITH PROCESS MATERIALS SUCH AS SOLVENTS IS PRESENT.

NOTE: CONTRACTOR SHALL NEUTRALIZE ANY SUPER-CHLORINATED WATER FROM WATER DISTRIBUTION PIPES BEFORE RELEASING IT INTO THE ENVIRONMENT. NEUTRALIZATION TECHNIQUES ARE AVAILABLE FROM THE ENGINEER. IF THE CONTRACTOR ENCOUNTERS CONTAMINATED SOIL OR GROUNDWATER, CONTACT THE BROWARD COUNTY ENVIRONMENTAL 24-HOUR EMERGENCY RESPONSE AT (954)-519-1499.

**NOTICE OF TERMINATION:**

A NOTICE OF TERMINATION SHALL BE SUBMITTED TO THE FDEP AFTER THE CONSTRUCTION HAS BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION.

**POLLUTION PREVENTION PLAN CERTIFICATION:**

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

NAME: \_\_\_\_\_ TITLE: \_\_\_\_\_

COMPANY: \_\_\_\_\_ DATE: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

**CONTRACTOR'S CERTIFICATION:**

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH, THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERAL PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER.

RESPONSIBILITY	SIGNATURE	DATE	COMPANY NAME, ADDRESS AND PHONE #	TITLE	NAME

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REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY: H.A.  
 DRAWN BY: H.A.  
 CHECKED BY: S.J.R.  
 SCALE: N/A



6401 SW 87th Ave, Ste. 200  
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 Certificate of Authorization No. 7184



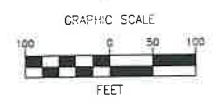
BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS  
 AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**STORMWATER POLLUTION PREVENTION CONTROL NOTES**



DATE: 01/28/2021  
 DRAWING NO: G-5





- LEGEND**
- PROJECT LIMITS
  - TURBIDITY BARRIER
  - SILT FENCE
  - POLLUTION RETAINER
  - CATCH BASIN
  - YARD DRAIN

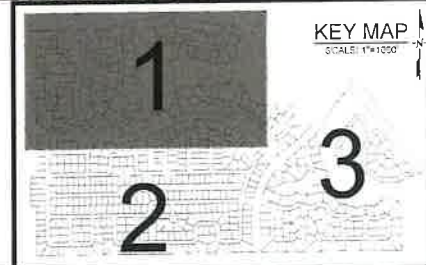
**NOTE:**  
 SPILL KIT MUST BE PROVIDED ONSITE DURING ENTIRE DURATION OF PROJECT OR UNTIL REMOVAL IS APPROVED BY CITY. SPILL KIT MUST BE APPROPRIATE FOR SCOPE OF WORK AND EQUIPMENT ONSITE.



MATCH LINE - SEE SHEET G-8

MATCH LINE - SEE SHEET G-7

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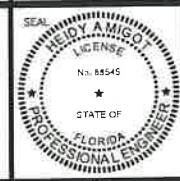
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 SCALE: 1"=100'

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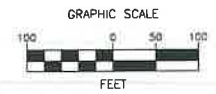
**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**  
 AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**STORMWATER POLLUTION PREVENTION PLAN**



DATE: 01/28/2021  
 DRAWING NO.: G-6





**LEGEND**

- PROJECT LIMITS
- TURBIDITY BARRIER
- SILT FENCE
- POLLUTION RETAINER
- CATCH BASIN
- YARD DRAIN

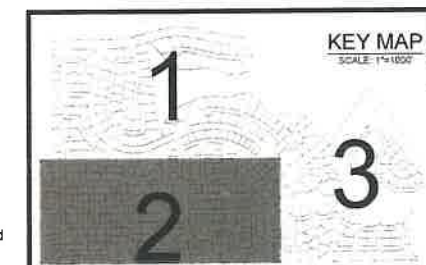
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MATCH LINE - SEE SHEET G-6



MATCH LINE - SEE SHEET G-8

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CITY OF  
**SUNRISE**  
 FLORIDA

**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**  
 AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

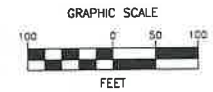
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**STORMWATER POLLUTION PREVENTION PLAN**



DATE: 01/28/2021  
 DRAWING NO: G-7



MATCH LINE - SEE SHEET G-7 & G-8



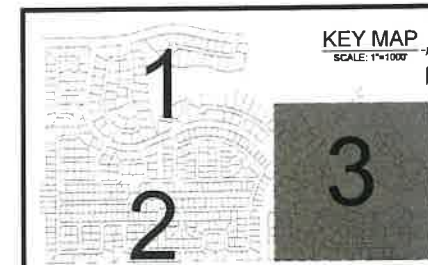
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- PROJECT LIMITS
- TURBIDITY BARRIER
- SILT FENCE
- POLLUTION RETAINER
- CATCH BASIN
- YARD DRAIN

NOTE:  
SPILL KIT MUST BE PROVIDED ONSITE DURING ENTIRE DURATION OF PROJECT OR UNTIL REMOVAL IS APPROVED BY CITY. SPILL KIT MUST BE APPROPRIATE FOR SCOPE OF WORK AND EQUIPMENT ONSITE.

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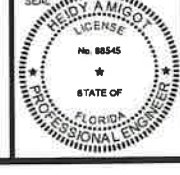
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**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**  
AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**STORMWATER POLLUTION PREVENTION PLAN**



DATE: 01/28/2021  
DRAWING NO.: G-8



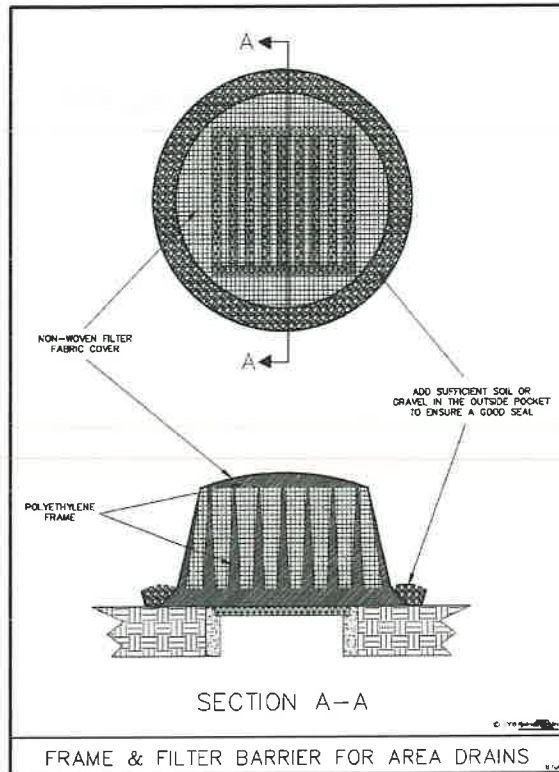


Figure V-14: Illustration of a Frame & Filter Barrier for Area Drains

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V-34

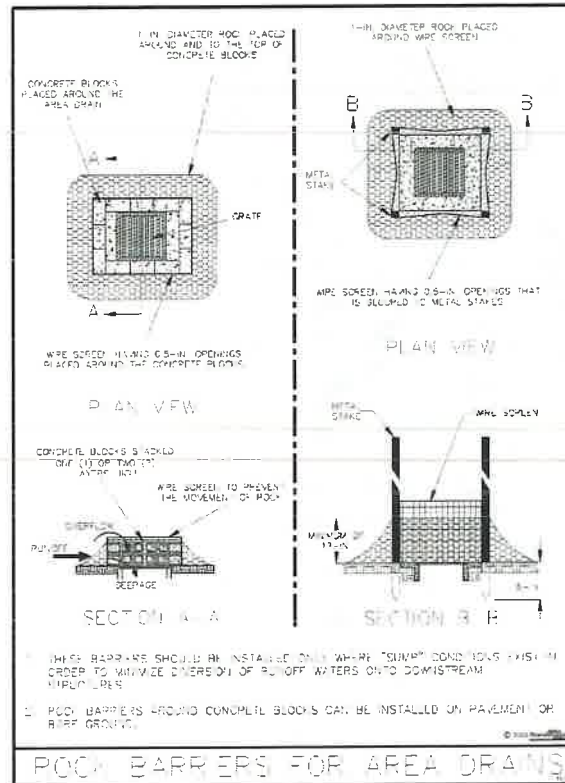


Figure V-13: Illustration of Rock Barriers around Area Drains

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V-32

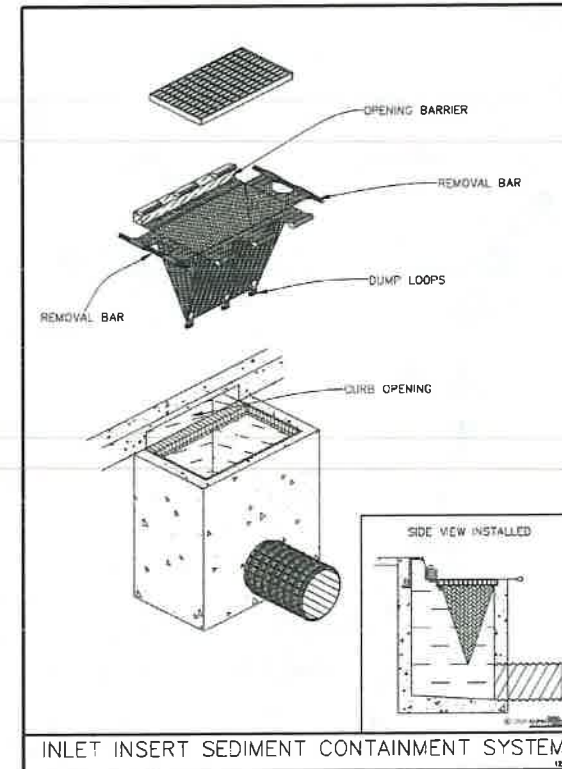


Figure V-18: Illustration of an Inlet Insert Sediment Containment System

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V-42

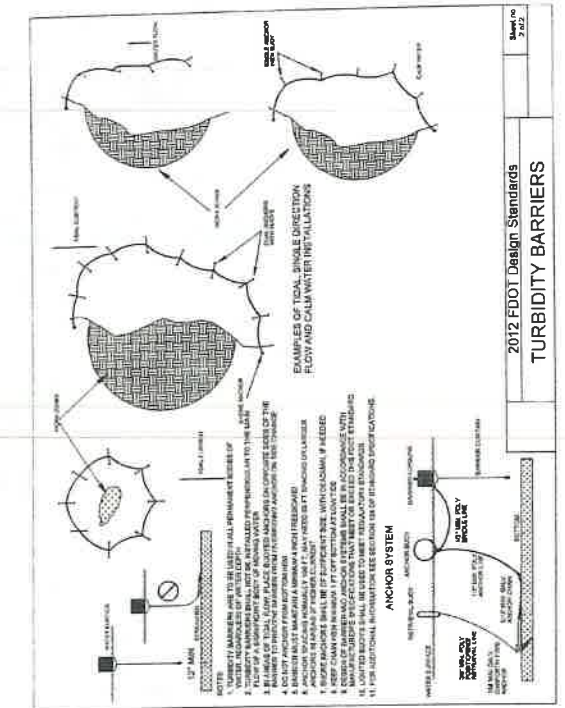


Figure V-10: Illustration of Installing a Floating Turbidity Barrier

V-35

**POLLUTION RETAINERS TO BE USED FOR THIS PROJECT, OR APPROVED EQUAL.**

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AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE

**STORMWATER POLLUTION PREVENTION DETAILS FDEP**



DATE:	01/28/2021
DRAWING NO.	G-9

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**CITY OF WESTON LANDSCAPE NOTES**

- CONTRACTOR SHALL HAVE TREES DAMAGED BY CONSTRUCTION IMMEDIATELY REPAIRED BY A CITY OF WESTON REGISTERED PROFESSIONAL ARBORIST IN A MANNER ACCEPTABLE TO THE CITY. ALL DAMAGED LANDSCAPING TO BE REPLACED TO EQUAL OR BETTER, INCLUDING BUT NOT LIMITED TO TREES, PALMS, ACCENTS, HEDGES, SHRUBS, GROUND COVER, WINES AND SOD. DAMAGED, MISSING, OR DEAD SOD AND BERMS (INCLUDING SLOPES) TO BE REPAIRED OR REPLACED AS WELL AS RE-GRADED TO EQUAL OR BETTER PRIOR TO FINAL INSPECTION.
- ANY TREE ROOTS CUT FOR THIS PROJECT, SHALL BE PROPERLY PRUNED BY MAKING CLEAN, SMOOTH CUTS ON THE ROOTS WITH CLEAN, SHARP TOOLS TO PROMOTE CALLUS FORMATION AND WOUND CLOSURE BY A CITY OF WESTON REGISTERED TREE SERVICE PROVIDER.
- THE CITY OF WESTON MUST BE NOTIFIED IMMEDIATELY IF ANY DAMAGE OCCURS TO ANY TREE DUE TO CONSTRUCTION OPERATIONS.
- SUCH REPAIRS AS NECESSARY SHALL BE MADE PROMPTLY AFTER DAMAGE OCCURS TO PREVENT PROGRESSIVE DETERIORATIONS OF DAMAGED TREES.
- CONTRACTOR SHALL REMOVE TREES WHICH ARE DETERMINED BY THE CITY TO BE INCAPABLE OF RESTORATION TO NORMAL GROWTH PATTERN. SUCH TREES SHALL BE SUBJECT TO REPLACEMENT UNDER THE PROVISIONS OF THIS CODE.
- ALL REQUIRED PLANTING AREAS NOT DEDICATED TO TREES, SHRUBS, OR EXISTING VEGETATION SHALL BE LANDSCAPED WITH GRASS, GROUND COVER, OR OTHER APPROPRIATE TREATMENT (NO SAND, ROCK, PAVEMENT, OR SOIL).
- SWALE TREES SHALL BE REQUIRED ALONG IMPROVED RIGHT-OF-WAY. THE SPECIES AND LOCATION OF SWALE TREES SHALL NOT CONFLICT WITH IMPROVEMENTS AND UTILITIES.
- CONTRACTOR WILL NEED TO HAVE A CITY OF WESTON REGISTERED ARBORIST ON BOARD TO MITIGATE ANY IMPACTS THAT MAY OCCUR.
- SOD REPLACEMENT SHALL BE ST. AUGUSTINE PALMETTO OR FLORATAM (MATCHING EXISTING).
- ALL DAMAGED IRRIGATION MUST BE REPAIRED TO EQUAL OR BETTER AS SOON AS POSSIBLE. DURING FINAL INSPECTION, AN IRRIGATION INSPECTION MUST BE COMPLETED.
- ALL ABOVE GROUND EQUIPMENT OR ENCLOSURES REQUIRE LANDSCAPE SCREENING TO THE HEIGHT OF THE ELEMENT AT THE TIME OF PLANTING ON ALL NON-ACCESSIBLE SIDES.
- NO PROPOSED BORING PITS, SOFT DIGS CAN BE LOCATED WITHIN ANY LANDSCAPING ENTRY FEATURE AREA WITHOUT FINAL APPROVAL OF LOCATION FROM THE CITY OF WESTON PRIOR TO INSTALLATION.
- ANY PROPOSED ABOVE GROUND TREE PRUNING MUST BE DONE IN ACCORDANCE WITH THE CITY OF WESTON CODE REQUIREMENTS CHAPTER 122.26 (G) (1), 122.26 (G) (2), CHAPTER 95.03 (D) AND BY A CITY OF WESTON REGISTERED TREE TRIMMING PROFESSIONAL. CONTRACTOR SHALL PROVIDE THE NAME OF THE CITY OF WESTON REGISTERED/TREE PROFESSIONAL PRIOR TO OBTAINING THE ENGINEERING PERMIT.
- PRIOR TO COMMENCEMENT OF ANY WORK, CONTRACTOR SHALL CALL THE CITY OF WESTON LANDSCAPE INSPECTOR AT 954-921-7781 TO SCHEDULE A LANDSCAPE PRE-CONSTRUCTION MEETING. APPROVED ARBORIST TREE PROFESSIONAL WILL BE REQUIRED AT THE PRE-CONSTRUCTION MEETING.
- CONTRACTOR SHALL LOCATE ANY PROPOSED SOFT DIGS, BORING PITS, VALVES, OR STRUCTURES WITHIN THE PROJECT LIMIT INDICATED ON THE PLANS A MINIMUM OF 10' FROM EXISTING TREES, PALMS, ROOTS, LANDSCAPING BEDS AND HEDGES. IF ANY EXCAVATIONS ARE LOCATED WITHIN THE DRIP LINE OF ANY TREE OR PALM A TREE PROTECTION BARRICADE MUST BE INSTALLED AND MAINTAINED TO THE COMPLETION OF THE JOB. CONTRACTOR SHALL UTILIZE CAUTION WITH THE MACHINERY DIGGING THE BORING PITS WITH REGARDS TO THE TREE AND PALM CANOPY.

**CITY OF WESTON PAVEMENT RESTORATION NOTES**

- ALL UNDERGROUND UTILITIES SHALL BE COMPLETED (WITH ACCEPTED BACTERIOLOGICAL AND PRESSURE TESTS) PRIOR TO CONSTRUCTION OF LIMEROCK BASE.
- ALL EXISTING PAVEMENT, CUT OR DAMAGED BY CONSTRUCTION, SHALL BE PROPERLY RESTORED AT THE CONTRACTOR'S EXPENSE.
- WHERE ANY PROPOSED PAVEMENT IS TO BE CONNECTED TO EXISTING PAVEMENT, THE EXISTING EDGE OF PAVEMENT SHALL BE SAW CUT.
- ASPHALT SURFACES FOR STREETS SHALL BE 2-INCH THICK WITH TWO (2) 1-INCH LIFTS OF FDOT TYPE SP-9.5 ASPHALTIC CONCRETE UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- ASPHALT FOR PARKING AREAS SHALL BE 2-INCH THICK WITH TWO (2) 1-INCH LIFTS OF FDOT TYPE SP-9.5 MODIFIED ASPHALTIC CONCRETE AS PER CITY OF WESTON'S ENGINEERING STANDARD DETAIL R-8.
- ALL DRIVEWAYS SHALL BE RESTORED FROM EDGE OF ROAD TO EDGE OF SIDEWALK AND GRADED TO PREVENT STANDING WATER.
- PAVEMENT RESTORATION SHALL BE 10 FEET OF TRENCH FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT.
- CITY OF WESTON REQUIRES THE USE OF TRACKLESS TACKONLY.
- FOR MULTIPLE TRENCHES WITHIN 50 FEET, MILL AND RESURFACE TOGETHER.

**CITY OF WESTON PIPE INSTALLATION NOTES**

- CONTRACTOR SHALL INSTALL NEW WATER SERVICE LINES BY PIT LAUNCHED MINI HORIZONTAL DIRECTIONAL DRILL.
- CONTRACTOR SHALL INSTALL NEW WATER MAIN BY OPEN-CUT TRENCH.
- CONTRACTOR SHALL MAINTAIN A MINIMUM COVER OF 36-INCHES WHEN PIT LAUNCHED MINI HORIZONTAL DIRECTIONAL DRILL IS USED TO AVOID PAVEMENT UPLIFT.
- METERS TO BE RELOCATED SHALL BE INSTALLED IN A NEW BOX.
- CONTRACTOR IS TO SALVAGE ALL REMOVED EXISTING METER BOXES AND DELIVER THEM TO THE CITY OF SUNRISE'S INVENTORY YARD.
- METERS LOCATED IN DRIVEWAYS / SIDEWALKS ARE TO BE RELOCATED OUTSIDE OF DRIVEWAYS / SIDEWALK AND IN PERVIOUS AREAS (GRASS).
- CONTRACTOR MUST HAVE A PLUMBING LICENSE OR SUB-CONTRACT WITH A PLUMBER.
- CONTRACTOR IS TO INSTALL A HEAT EXPANSION VALVE IN EVERY DWELLING UNIT.
- CONTRACTOR IS TO INSTALL DOUBLE CHECK VALVE IN EVERY WATER METER BOX. WATER METER AND DOUBLE CHECK VALVE SHALL BE INSTALL IN THE SAME BOX.
- A PLUMBING PERMIT IS REQUIRED FOR EVERY DWELLING UNIT. TWO (2) INSPECTIONS ARE REQUIRED BY THE CITY OF WESTON.
- ONE YEAR WARRANTY WILL BE REQUIRED ON PRIVATE PROPERTY IMPROVEMENTS FROM THE TIME OF FINAL PLUMBING PERMIT APPROVAL IS ISSUED.
- REPLACE ANY DEFECTIVE SADDLES WITH NEW SADDLES ON EXISTING WATER MAIN.
- CONTRACTOR IS REQUIRED TO TIE IN NEW WATER SERVICES ONTO EXISTING WATER MAIN WHERE SHOWN ON PLANS.
- CONTRACTOR SHALL USE A BYPASS WHERE SERVICE MAY BE INTERRUPTED.

WATER METER RELOCATION TABULATION									
SHEET NUMBER	ADDRESS	CITY	STATE	ZIP	METER SIZE	METER NUMBER	INSTALLATION DATE	REPLACE METER	RELOCATION LOCATION
C-07	16930 SW 4 CT	SUNRISE	FL	33326	5/8"x3/4"	90880360	10/25/2011	NO	OUTSIDE OF DRIVEWAY
C-09	419 SAILBOAT CIR	WESTON	FL	333261505	1"	47824402	12/10/1998	YES	OUTSIDE OF DRIVEWAY
C-11	16911 SW 5 ST	SUNRISE	FL	33326	5/8"x3/4"	90880373	10/25/2011	NO	OUTSIDE OF SIDEWALK
C-12	501 SW 168 WAY	SUNRISE	FL	33326	5/8"x3/4"	90880377	10/25/2011	NO	OUTSIDE OF DRIVEWAY
C-12	507 SW 168 WAY	WESTON	FL	333261558	5/8"x3/4"	90006872	12/8/2010	NO	OUTSIDE OF SIDEWALK
C-12	513 SW 188 WAY	WESTON	FL	333261558	5/8"x3/4"	90880376	10/25/2011	NO	OUTSIDE OF SIDEWALK
C-18	16873 SW 5 WAY	WESTON	FL	333261566	5/8"x3/4"	90006751	1/18/2011	NO	OUTSIDE OF DRIVEWAY
C-18	16878 SW 5 WAY	WESTON	FL	333261547	5/8"x3/4"	79158490	8/17/2005	YES	OUTSIDE OF DRIVEWAY
C-24	510 SW 167 TER	WESTON	FL	333261517	5/8"x3/4"	93447679	7/16/2013	NO	OUTSIDE OF DRIVEWAY
C-24	500 SW 167 AVE	WESTON	FL	333261522	5/8"x3/4"	35820670	2/19/2018	NO	OUTSIDE OF DRIVEWAY
C-24	510 SW 167 AVE	WESTON	FL	333261522	5/8"x3/4"	36936997	10/17/2018	NO	OUTSIDE OF DRIVEWAY
C-28	16741 SW 5 CT	WESTON	FL	333261533	5/8"x3/4"	90880386	10/26/2011	NO	OUTSIDE OF DRIVEWAY
C-32	16672 ROYAL POINCIANA DR	SUNRISE	FL	33326	5/8"x3/4"	91114652	10/31/2011	NO	OUTSIDE OF DRIVEWAY
C-32	16682 ROYAL POINCIANA DR	SUNRISE	FL	33326	5/8"x3/4"	91114653	10/31/2011	NO	OUTSIDE OF DRIVEWAY
C-32	16691 ROYAL POINCIANA DR	SUNRISE	FL	33326	5/8"x3/4"	91114781	9/4/2019	NO	OUTSIDE OF DRIVEWAY
C-33	16802 SW 5 WAY	WESTON	FL	333261547	5/8"x3/4"	91114621	10/31/2011	NO	OUTSIDE OF DRIVEWAY
C-33	16808 SW 5 WAY	WESTON	FL	333261547	5/8"x3/4"	91114622	10/31/2011	NO	OUTSIDE OF SIDEWALK
C-34	16796 ROYAL POINCIANA DR	WESTON	FL	33326	5/8"x3/4"	63850856	6/25/2019	NO	OUTSIDE OF DRIVEWAY
C-36	16661 ROYAL POINCIANA DR	WESTON	FL	333261753	1"	94162570	12/11/1994	YES	OUTSIDE OF DRIVEWAY
C-36	16671 ROYAL POINCIANA DR	WESTON	FL	333261753	1"	52577642	1/20/2013	NO	OUTSIDE OF DRIVEWAY

\* REFER TO CITY OF SUNRISE NOTES ON G-4

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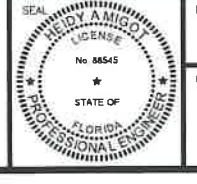
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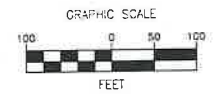
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 AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**WATER METER RELOCATION TABULATION & NOTES**



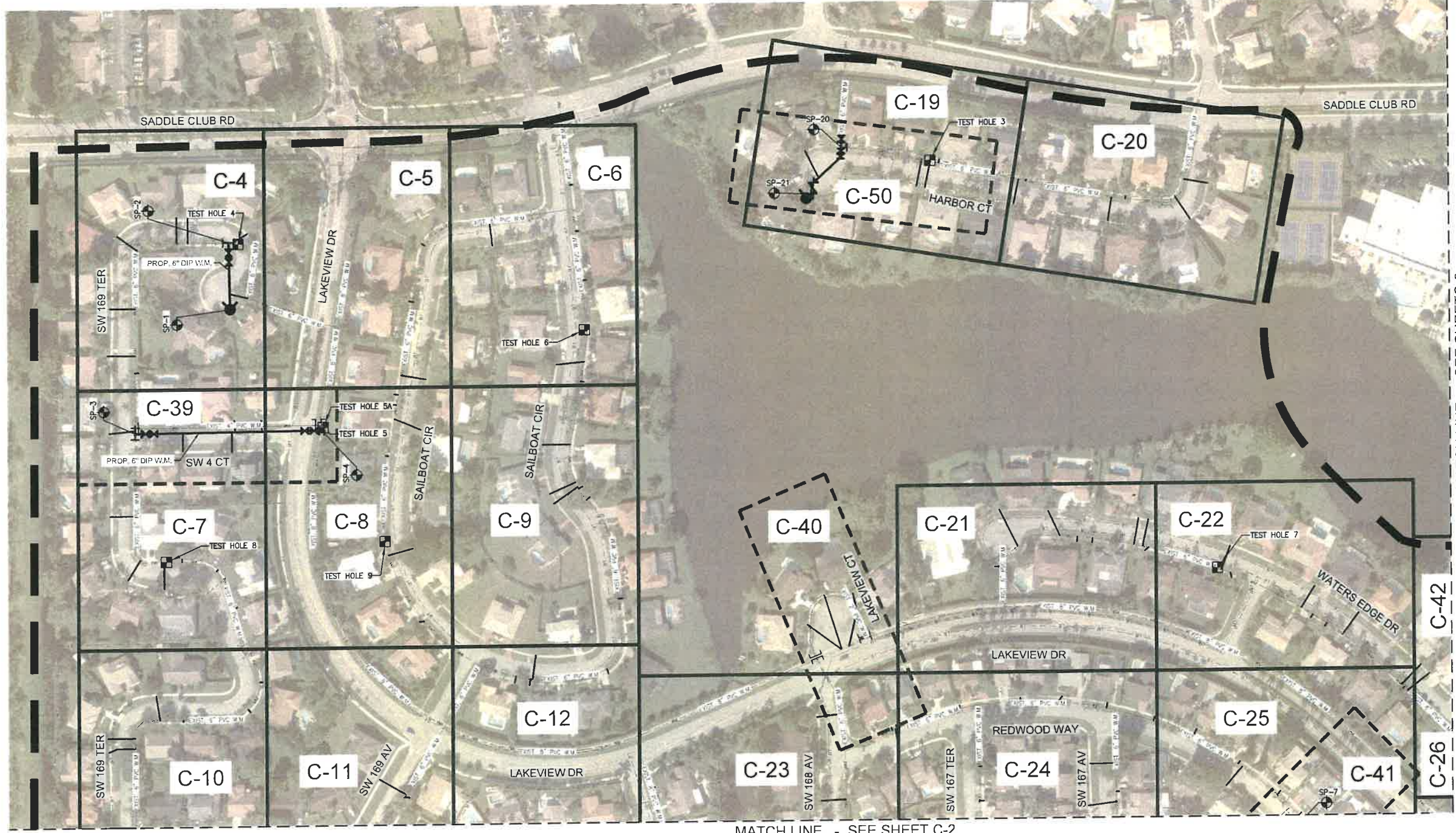
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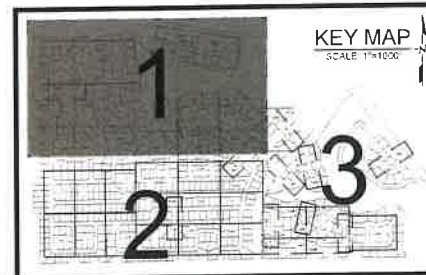
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- PROPOSED**
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  - PROP. FIRE HYDRANT
  - ⊗ GATE VALVE
  - || TAPPING SLEEVE
  - WATER SERVICE
  - SOLID SLEEVE
  - ⊥ TEE
  - ⊥ WYE
  - ⊥ PLUG
  - ⊥ PLUG W/ 2" BLOW OFF VALVE
  - TEST HOLE
  - SAMPLING POINT



MATCH LINE - SEE SHEET C-3

MATCH LINE - SEE SHEET C-2

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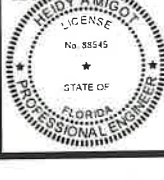


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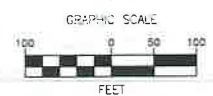
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SHEET TITLE  
**WATER SERVICES & WATER MAINS KEY MAP & PROJECT LAYOUT**



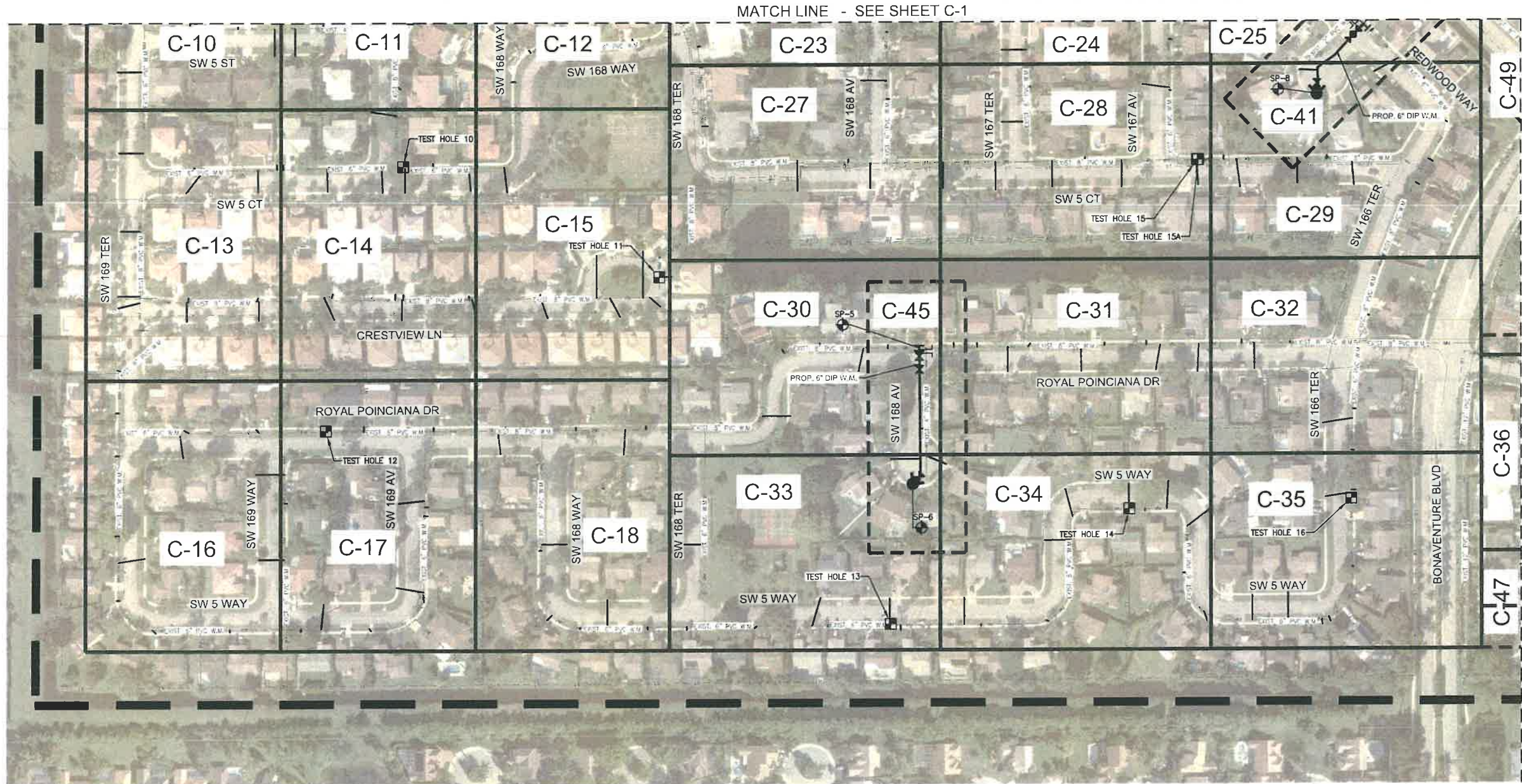
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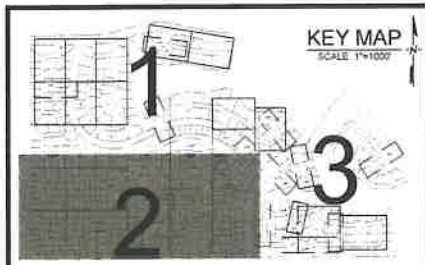


**LEGEND**

- PROJECT LIMITS
- EXISTING
- WATER MAIN
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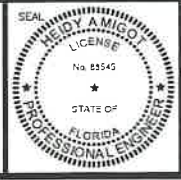


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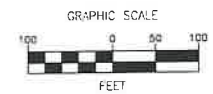
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**WATER SERVICES & WATER MAINS KEY MAP & PROJECT LAYOUT**



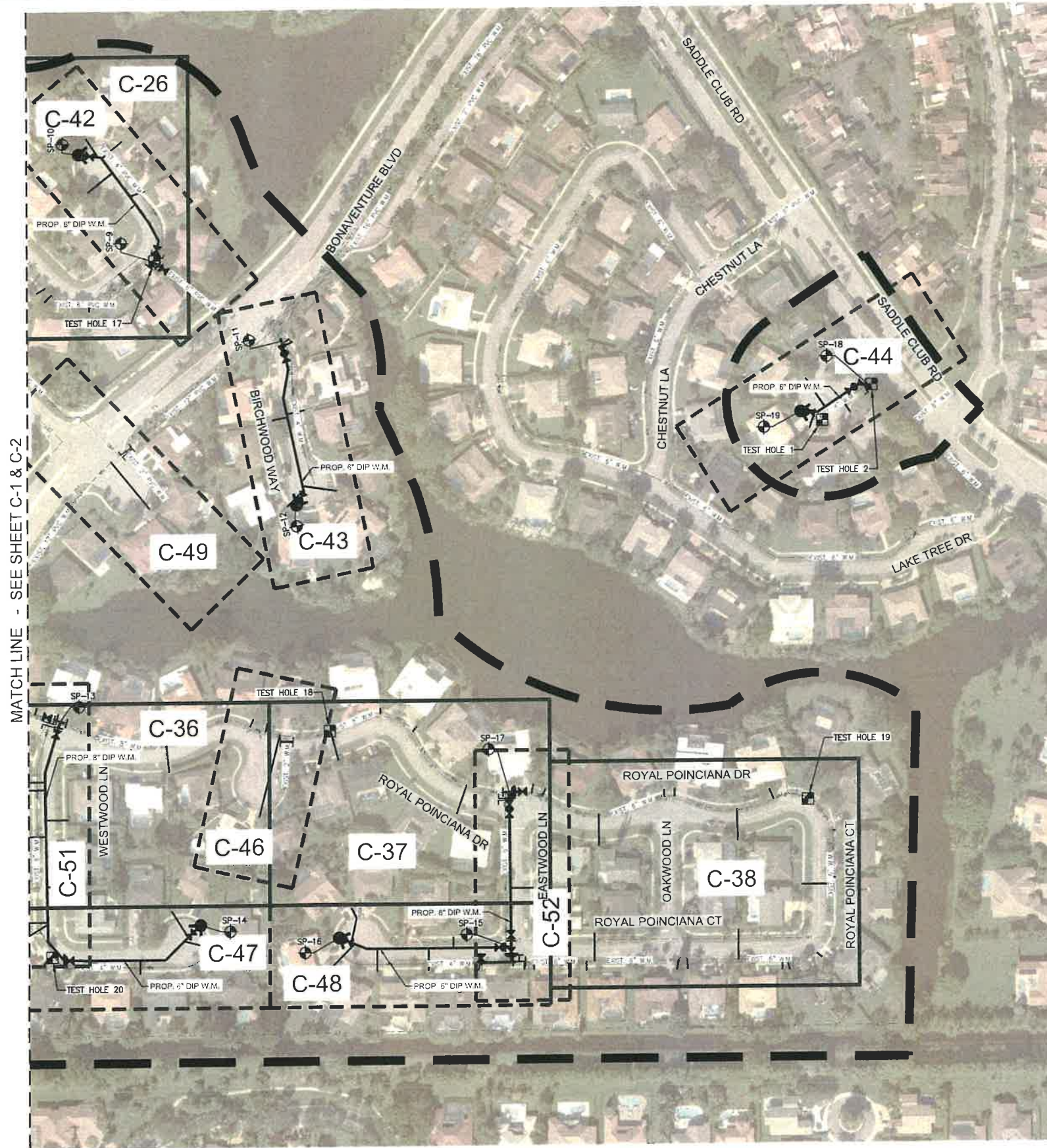
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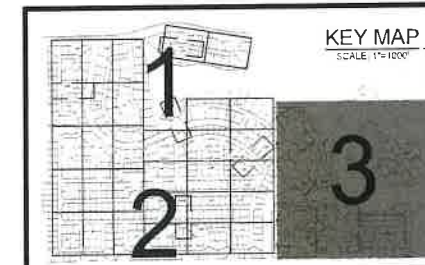
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MATCH LINE - SEE SHEET C-1 & C-2

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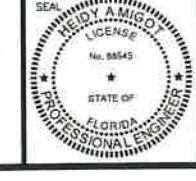
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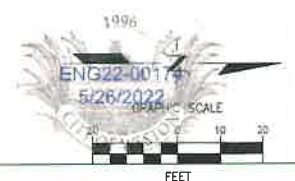
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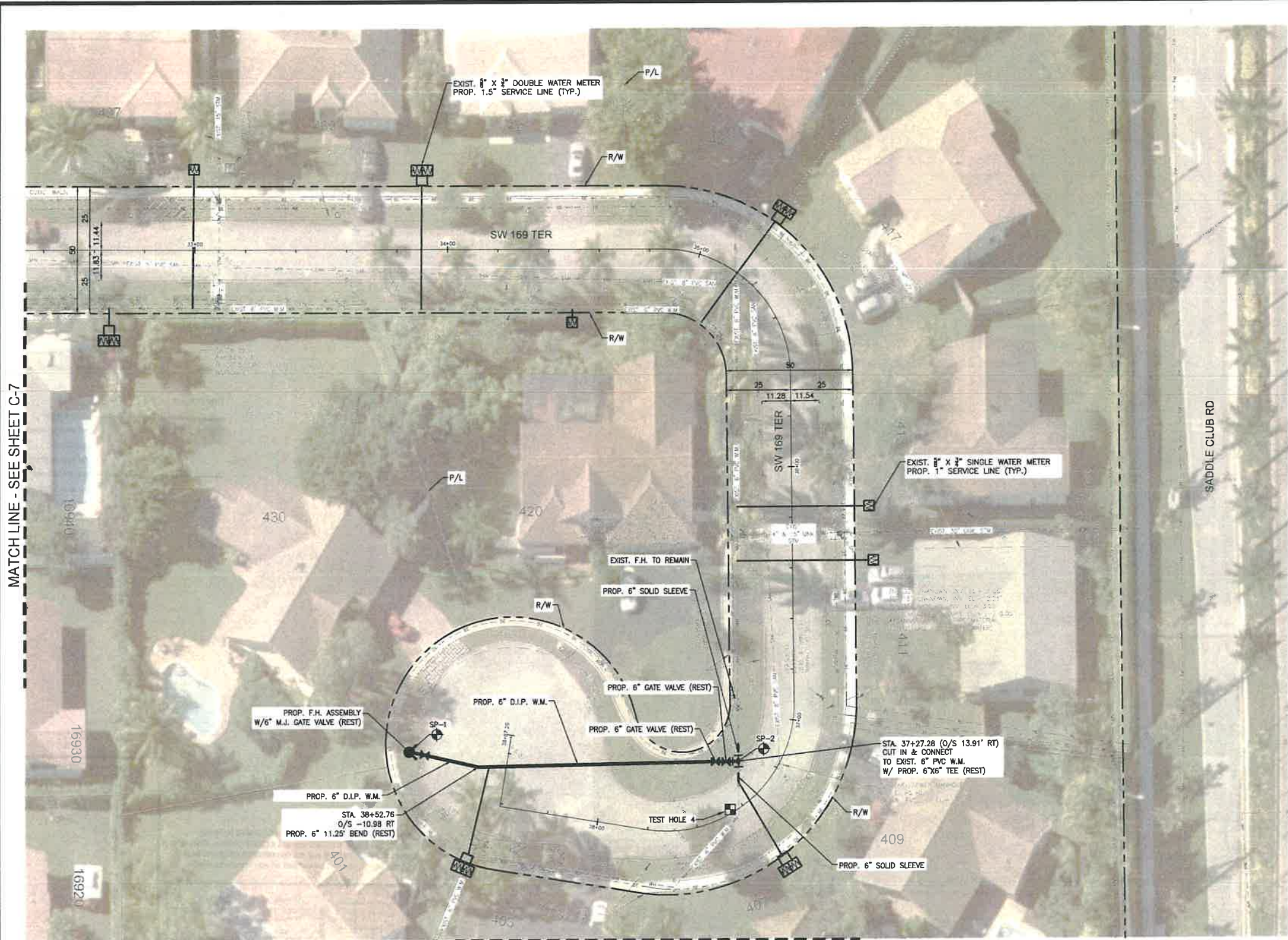
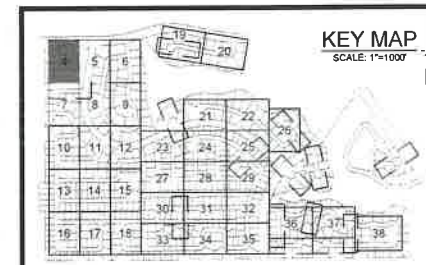




**LEGEND**

---	EXISTING	---	CABLE TV OVERHEAD
---	---	---	CABLE TV UNDERGROUND
---	---	---	ELECTRIC OVERHEAD
---	---	---	ELECTRIC UNDERGROUND
---	---	---	FORCE MAIN
---	---	---	GAS
---	---	---	IRRIGATION
---	---	---	SANITARY SEWER
---	---	---	STORM SEWER
---	---	---	TELEPHONE UNDERGROUND
---	---	---	TRAFFIC LOOP
---	---	---	WATER LATERAL
---	---	---	WATER MAIN
⊙	EXISTING FIRE HYDRANT	⊙	EXISTING FIRE HYDRANT
⊙	1" x 3/4" SINGLE WATER METER PROP. 1" SERVICE LINE	⊙	1" x 3/4" SINGLE WATER METER PROP. 1" SERVICE LINE
⊙	1/2" x 3/4" DOUBLE WATER METER PROP. 1.5" SERVICE LINE	⊙	1/2" x 3/4" DOUBLE WATER METER PROP. 1.5" SERVICE LINE
⊙	1" SINGLE WATER METER PROP. 1.5" SERVICE LINE	⊙	1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
⊙	2 - 1/2" x 3/4" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE	⊙	2 - 1/2" x 3/4" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
⊙	2 - 1" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE	⊙	2 - 1" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
---	PROPOSED	---	WATER MAIN
⊙	---	⊙	GATE VALVE
⊙	---	⊙	PROP. FIRE HYDRANT
---	---	---	TAPPING SLEEVE
---	---	---	WATER SERVICE
---	---	---	SOLID SLEEVE
---	---	---	TEE
---	---	---	WYE
---	---	---	PLUG
---	---	---	PLUG W/ 2" BLOW OFF VALVE
---	---	---	TEST HOLE
---	---	---	SAMPLING POINT

- NOTES**
- NO VALVES IN CURB, SIDEWALK, OR DRIVEWAYS.
  - ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-555 OF THE FAC AS APPLICABLE.
  - RESTORE EXISTING VALVES AND MANHOLES AT PROPOSED CONNECTIONS TO CITY STANDARDS.
  - CITY OF SUNRISE DETAILS AND SPECIFICATIONS WILL GOVERN FOR WATER DISTRIBUTION INSTALLATION.
  - REPLACE EXISTING SERVICE LINES IN KIND. CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF ANY FIELD CHANGES.



MATCH LINE - SEE SHEET C-7

MATCH LINE - SEE SHEET C-5

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NO.	DATE	DESCRIPTION

DESIGNED BY:	H.A.
DRAWN BY:	H.A.
CHECKED BY:	S.J.R.
SCALE:	1"=20'

6401 SW 87th Ave, Ste. 200  
Miami, Florida 33173  
Tel: 305.670.2350 Fax: 305.670.2351  
www.bcceng.com  
Certificate of Authorization No. 7184



**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**  
AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**WATER SERVICE LINE PLAN**



DATE:  
01/28/2021  
DRAWING NO.  
C-4

FILE LOCATION: H:\PROJECTS\011211.07\_BONAVENTURE WATER\011211.07\_C04-C15\_WATER.DWG





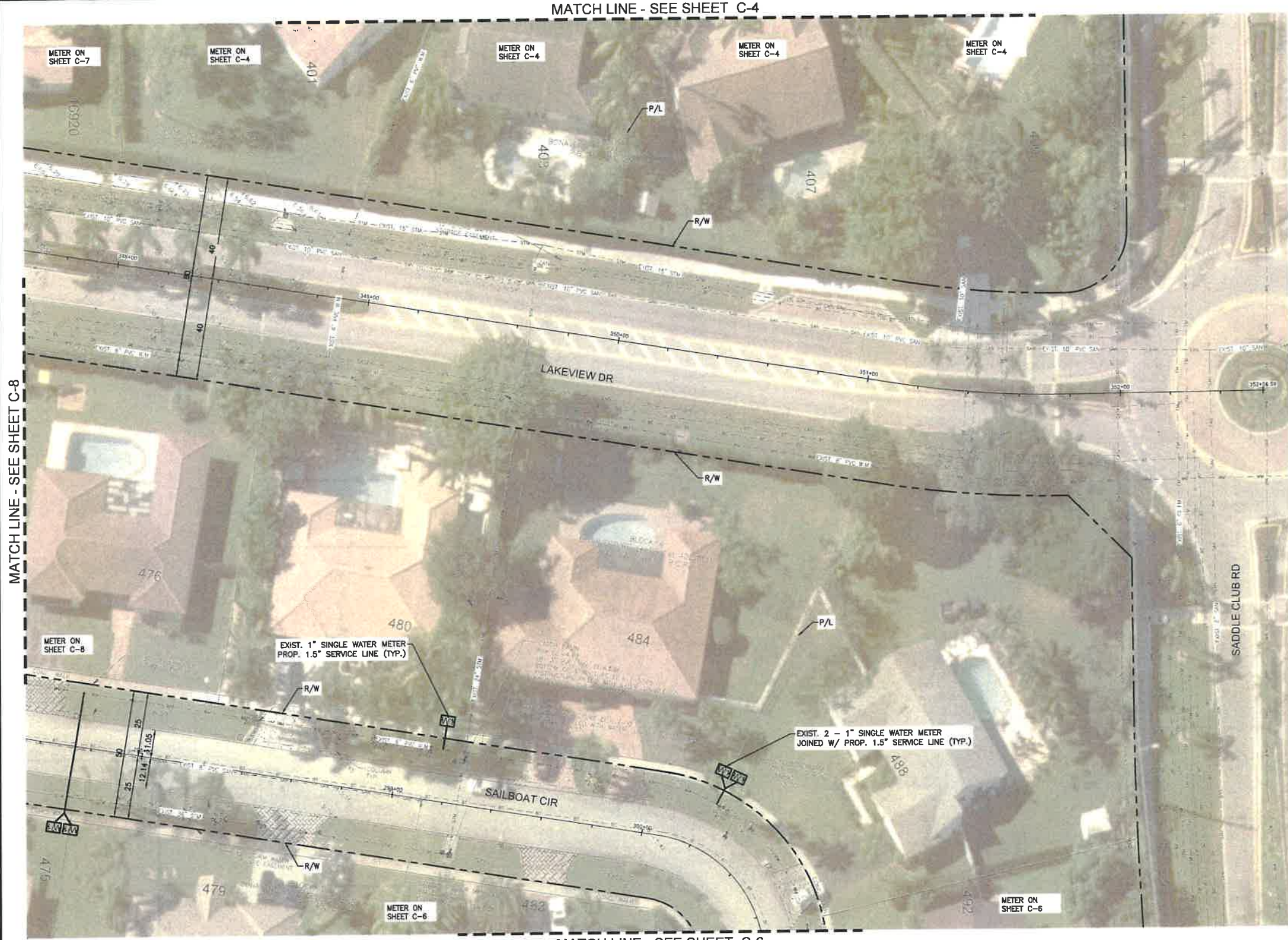
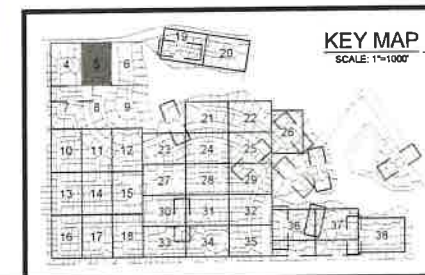
**LEGEND**

- EXISTING**
- OCATV --- CABLE TV OVERHEAD
  - CAUV --- CABLE TV UNDERGROUND
  - OE --- ELECTRIC OVERHEAD
  - DE --- ELECTRIC UNDERGROUND
  - FM --- FORCE MAIN
  - GAS --- GAS
  - IRR --- IRRIGATION
  - SAN --- SANITARY SEWER
  - STW --- STORM SEWER
  - BT --- TELEPHONE UNDERGROUND
  - TRL --- TRAFFIC LOOP
  - WL --- WATER LATERAL
  - WM --- WATER MAIN
- EXISTING FIRE HYDRANT**
- ⊕ X ⊕ SINGLE WATER METER PROP. 1" SERVICE LINE
  - ⊕ X ⊕ DOUBLE WATER METER PROP. 1.5" SERVICE LINE
  - ⊕ X ⊕ 1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - ⊕ X ⊕ 2" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
  - ⊕ X ⊕ 2 - 1" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE

- PROPOSED**
- WATER MAIN
  - ⊕ GATE VALVE
  - ⊕ PROP. FIRE HYDRANT
  - ⊕ TAPPING SLEEVE
  - WATER SERVICE
  - SOLID SLEEVE
  - ⊕ TEE
  - ⊕ WYE
  - ⊕ PLUG
  - ⊕ PLUG W/ 2" BLOW OFF VALVE
  - ⊕ TEST HOLE
  - ⊕ SAMPLING POINT

**NOTES**

1. NO VALVES IN CURB, SIDEWALK OR DRIVEWAYS.
2. ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-555 OF THE FAC AS APPLICABLE.
3. RESTORE EXISTING VALVES AND MANHOLES AT PROPOSED CONNECTIONS TO CITY STANDARDS.
4. CITY OF SUNRISE DETAILS AND SPECIFICATIONS WILL GOVERN FOR WATER DISTRIBUTION INSTALLATION.
5. REPLACE EXISTING SERVICE LINES IN KIND. CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF ANY FIELD CHANGES.



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DESIGNED BY: H.A.  
 DRAWN BY: H.A.  
 CHECKED BY: S.J.R.  
 SCALE: 1"=20'

**bcc engineering**

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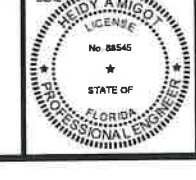


**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**

AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE

**WATER SERVICE LINE PLAN**



DATE: 01/28/2021  
 DRAWING NO. C-5

PLOT DATE: 1/28/2021 3:54 PM

FILE LOCATION: H:\PROJECTS\0171231.07 BONAVENTURE WATER\0171231.07\_04-C15-WATER.DWG



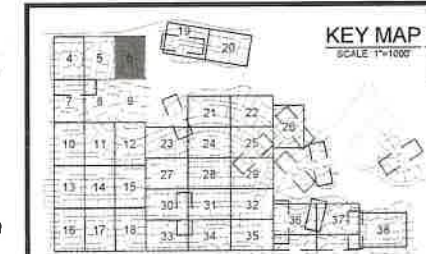


**LEGEND**

	CABLE TV OVERHEAD
	CABLE TV UNDERGROUND
	ELECTRIC OVERHEAD
	ELECTRIC UNDERGROUND
	FORCE MAIN
	GAS
	IRRIGATION
	SANITARY SEWER
	STORM SEWER
	TELEPHONE UNDERGROUND
	TRAFFIC LOOP
	WATER LATERAL
	WATER MAIN
	EXISTING FIRE HYDRANT
	1" SINGLE WATER METER PROP. 1" SERVICE LINE
	1.5" DOUBLE WATER METER PROP. 1.5" SERVICE LINE
	1.5" SINGLE WATER METER PROP. 1.5" SERVICE LINE
	2" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
	2" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
<b>PROPOSED</b>	
	WATER MAIN
	GATE VALVE
	PROP. FIRE HYDRANT
	TAPPING SLEEVE
	WATER SERVICE
	SOLID SLEEVE
	TEE
	WYE
	PLUG
	PLUG W/ 2" BLOW OFF VALVE
	TEST HOLE
	SAMPLING POINT

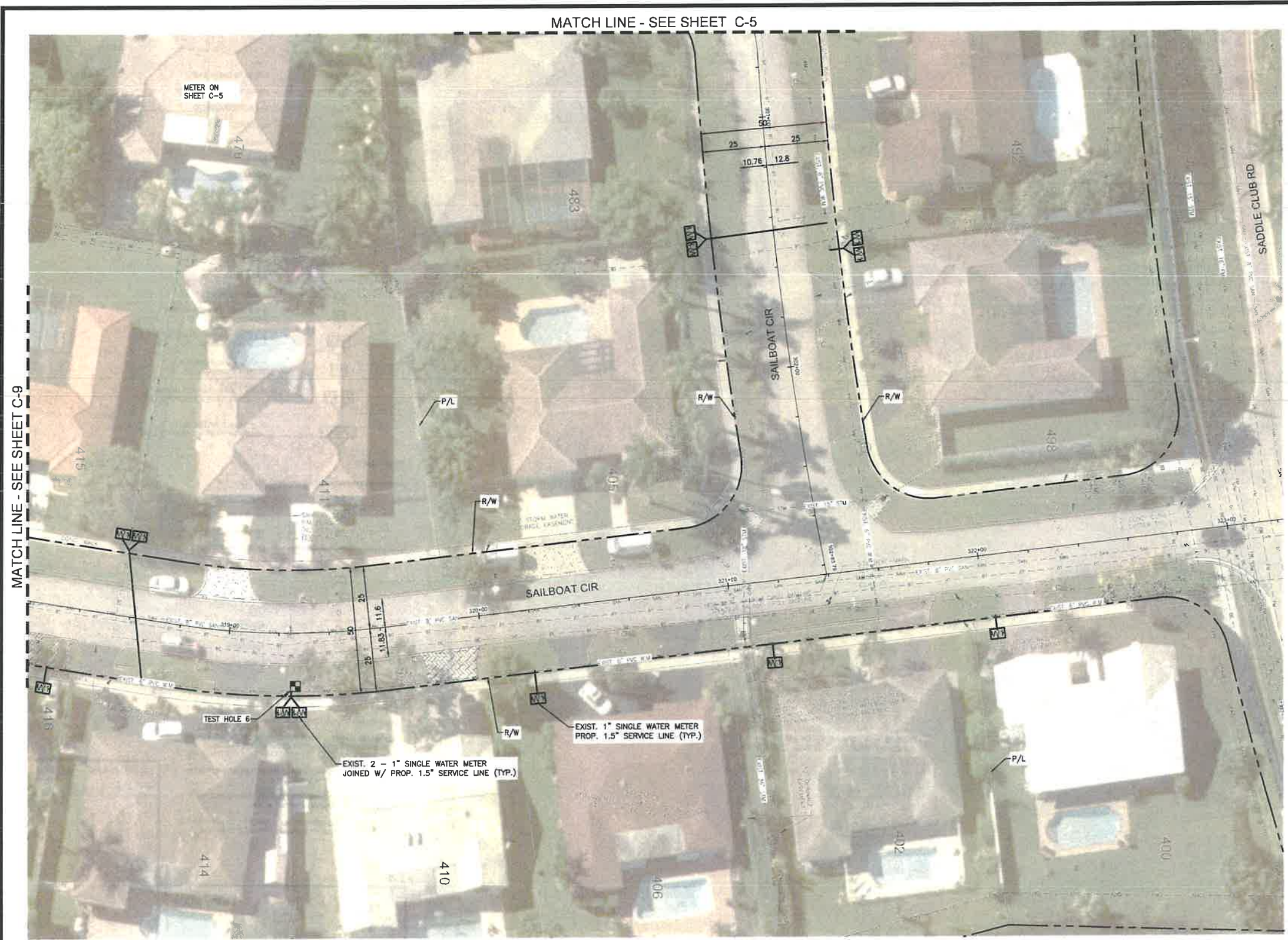
**NOTES**

- NO VALVES IN CURB, SIDEWALK OR DRIVEWAYS
- ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-555 OF THE FAC AS APPLICABLE.
- RESTORE EXISTING VALVES AND MANHOLES AT PROPOSED CONNECTIONS TO CITY STANDARDS.
- CITY OF SUNRISE DETAILS AND SPECIFICATIONS WILL GOVERN FOR WATER DISTRIBUTION INSTALLATION.
- REPLACE EXISTING SERVICE LINES IN KIND. CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF ANY FIELD CHANGES.



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NO.	DATE	DESCRIPTION

DESIGNED BY: H.A.  
 DRAWN BY: H.A.  
 CHECKED BY: S.J.R.  
 SCALE: 1"=20'

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CITY OF  
**SUNRISE**  
 FLORIDA

**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**  
 AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**WATER SERVICE LINE PLAN**

DATE: 01/28/2021  
 DRAWING NO.: C-6





**LEGEND**

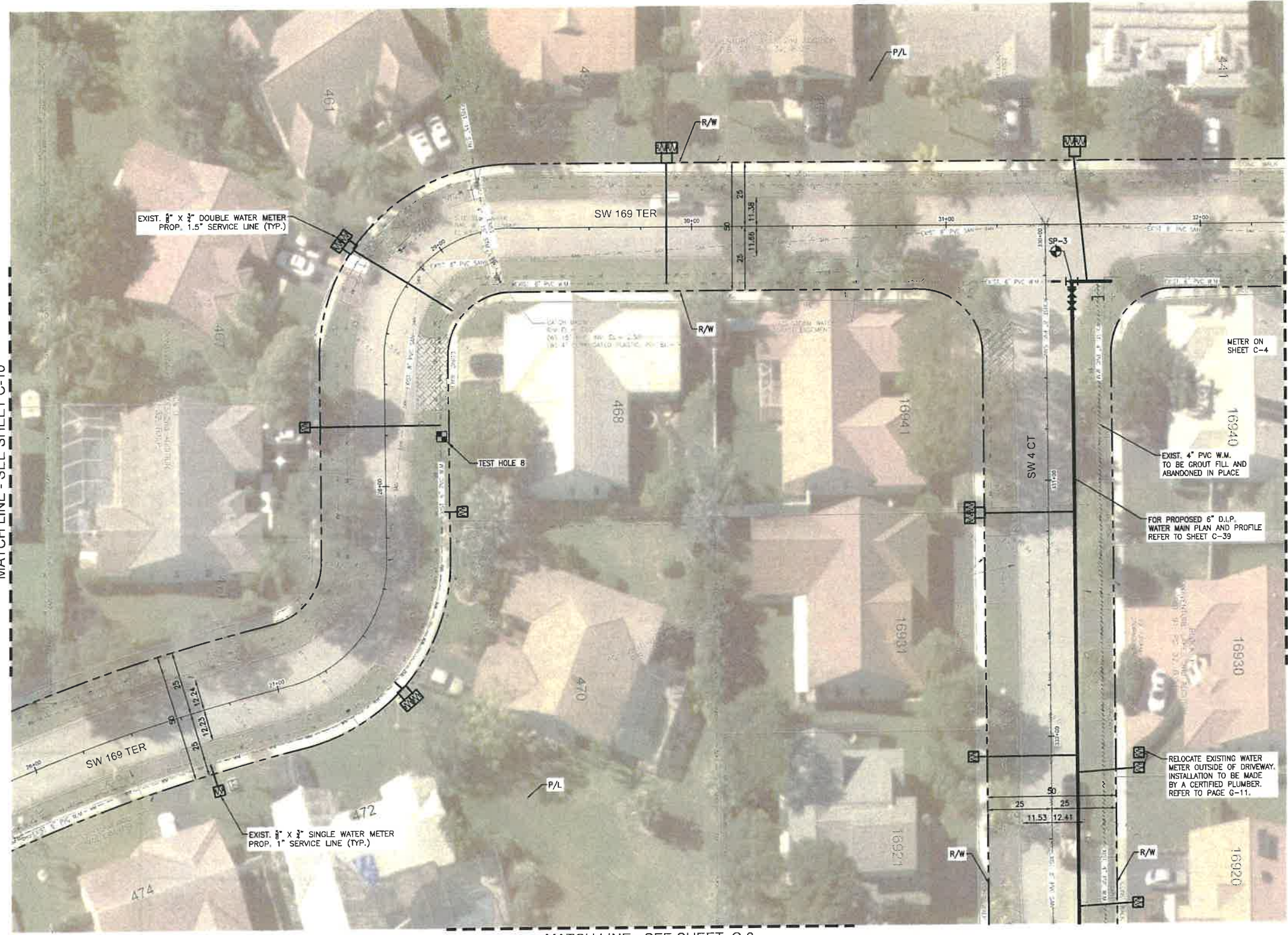
**EXISTING**

- CABLE TV OVERHEAD
- CABLE TV UNDERGROUND
- ELECTRIC OVERHEAD
- ELECTRIC UNDERGROUND
- FORCE MAIN
- GAS
- IRRIGATION
- SANITARY SEWER
- STORM SEWER
- TELEPHONE UNDERGROUND
- TRAFFIC LOOP
- WATER LATERAL
- WATER MAIN
- EXISTING FIRE HYDRANT
- 1" X 3/4" SINGLE WATER METER PROP. 1" SERVICE LINE
- 1" X 1/2" DOUBLE WATER METER PROP. 1.5" SERVICE LINE
- 1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
- 2" X 1" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
- 2" - 1" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE

**PROPOSED**

- WATER MAIN
- GATE VALVE
- PROP. FIRE HYDRANT
- TAPPING SLEEVE
- WATER SERVICE
- SOLID SLEEVE
- TEE
- WYE
- PLUG
- PLUG W/ 2" BLOW OFF VALVE
- TEST HOLE
- SAMPLING POINT

MATCH LINE - SEE SHEET C-4



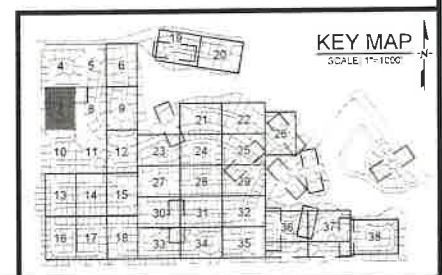
MATCH LINE - SEE SHEET C-10

MATCH LINE - SEE SHEET C-8

**NOTES**

1. NO VALVES IN CURB, SIDEWALK, OR DRIVEWAYS.
2. ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-555 OF THE FAC AS APPLICABLE.
3. RESTORE EXISTING VALVES AND MANHOLES AT PROPOSED CONNECTIONS TO CITY STANDARDS.
4. CITY OF SUNRISE DETAILS AND SPECIFICATIONS WILL GOVERN FOR WATER DISTRIBUTION INSTALLATION.
5. REPLACE EXISTING SERVICE LINES IN KIND. CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF ANY FIELD CHANGES.

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REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY: H.A.  
 DRAWN BY: H.A.  
 CHECKED BY: S.J.R.  
 SCALE: 1"=20'



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**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**  
 AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**WATER SERVICE LINE PLAN**



DATE: 01/28/2021  
 DRAWING NO.: C-7



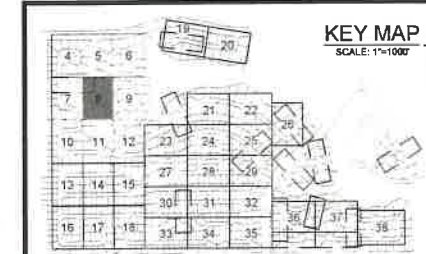


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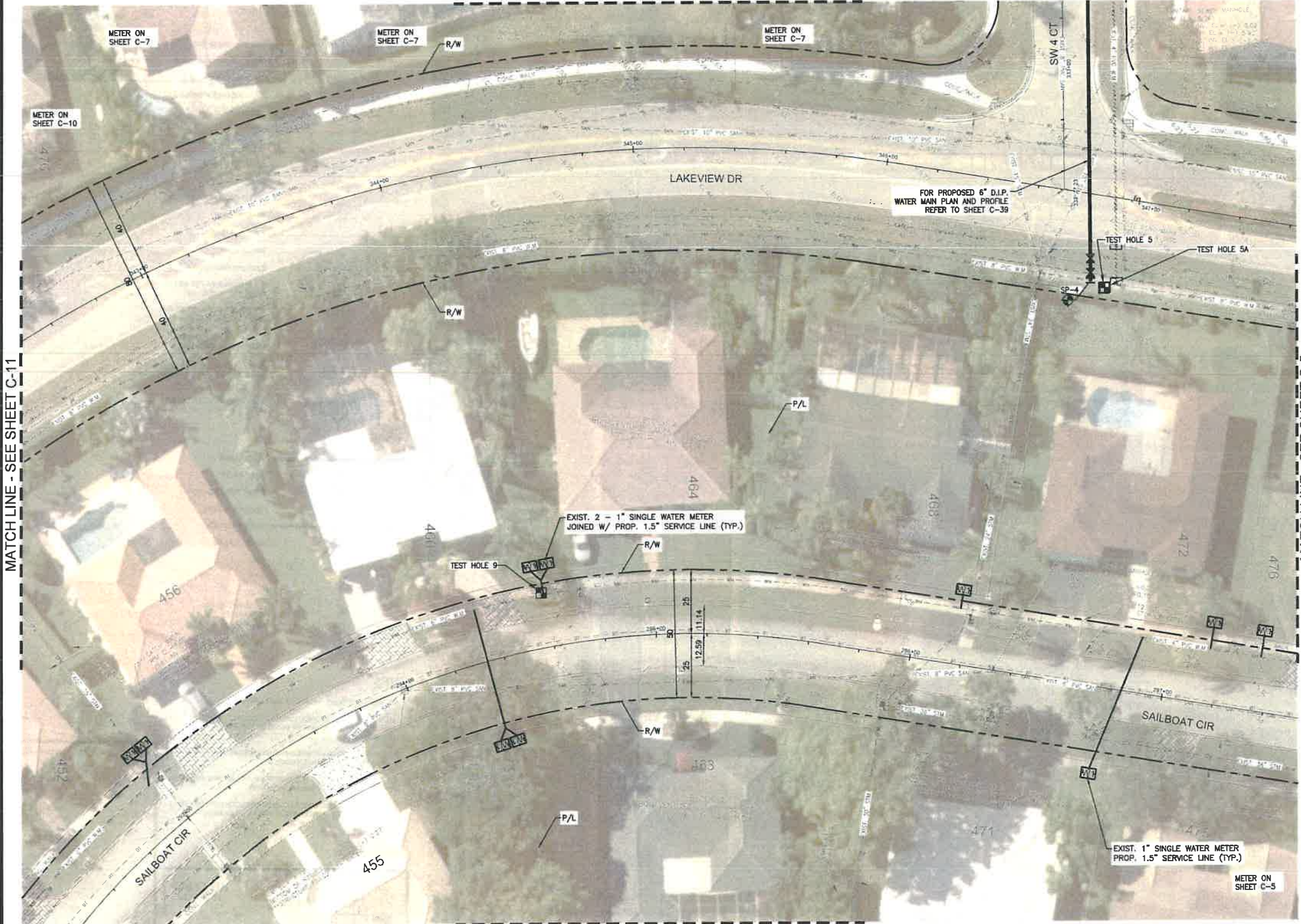
EXISTING	
---OCAY---	CABLE TV OVERHEAD
---CA-V---	CABLE TV UNDERGROUND
---OE---	ELECTRIC OVERHEAD
---DE---	ELECTRIC UNDERGROUND
---FM---	FORCE MAIN
---GAS---	GAS
---IRR---	IRRIGATION
---SAN---	SANITARY SEWER
---STM---	STORM SEWER
---BT---	TELEPHONE UNDERGROUND
---BCTED---	TRAFFIC LOOP
---	WATER LATERAL
---	WATER MAIN
⊙	EXISTING FIRE HYDRANT
⊕	SINGLE WATER METER PROP. 1" SERVICE LINE
⊕⊕	DOUBLE WATER METER PROP. 1.5" SERVICE LINE
⊕	1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
⊕⊕	2 - 1" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
⊕⊕	2 - 1" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
PROPOSED	
---	WATER MAIN
⊕	GATE VALVE
⊕	PROP. FIRE HYDRANT
---	TAPPING SLEEVE
---	WATER SERVICE
---	SOLID SLEEVE
---	TEE
---	WYE
---	PLUG
---	PLUG W/ Z' BLOW OFF VALVE
⊕	TEST HOLE
⊕	SAMPLING POINT

**NOTES**

- NO VALVES IN CURB, SIDEWALK, OR DRIVEWAYS
- ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-555 OF THE FAC AS APPLICABLE
- RESTORE EXISTING VALVES AND MANHOLES AT PROPOSED CONNECTIONS TO CITY STANDARDS.
- CITY OF SUNRISE DETAILS AND SPECIFICATIONS WILL GOVERN FOR WATER DISTRIBUTION INSTALLATION
- REPLACE EXISTING SERVICE LINES IN KIND, CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF ANY FIELD CHANGES



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MATCH LINE - SEE SHEET C-7

MATCH LINE - SEE SHEET C-9

MATCH LINE - SEE SHEET C-11

MATCH LINE - SEE SHEET C-5

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FILE LOCATION: H:\PROJECTS\071721\07 BONAVENTURE WVA\071721\07\_04-C15\_WA1.DWG  
 PLOT DATE: 1/28/2021 3:37 PM

REVISIONS		
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DESIGNED BY: H.A.  
 DRAWN BY: H.A.  
 CHECKED BY: S.J.R.  
 SCALE: 1"=20'


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 CITY OF  
**SUNRISE**  
 FLORIDA

**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**  
 AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**WATER SERVICE LINE PLAN**


 SEAL  
 HEIDI A. MIGOT  
 LICENSE  
 No. 18546  
 STATE OF  
 FLORIDA  
 PROFESSIONAL ENGINEER

DATE: 01/28/2021  
 DRAWING NO.: C-8





**LEGEND**

**EXISTING**

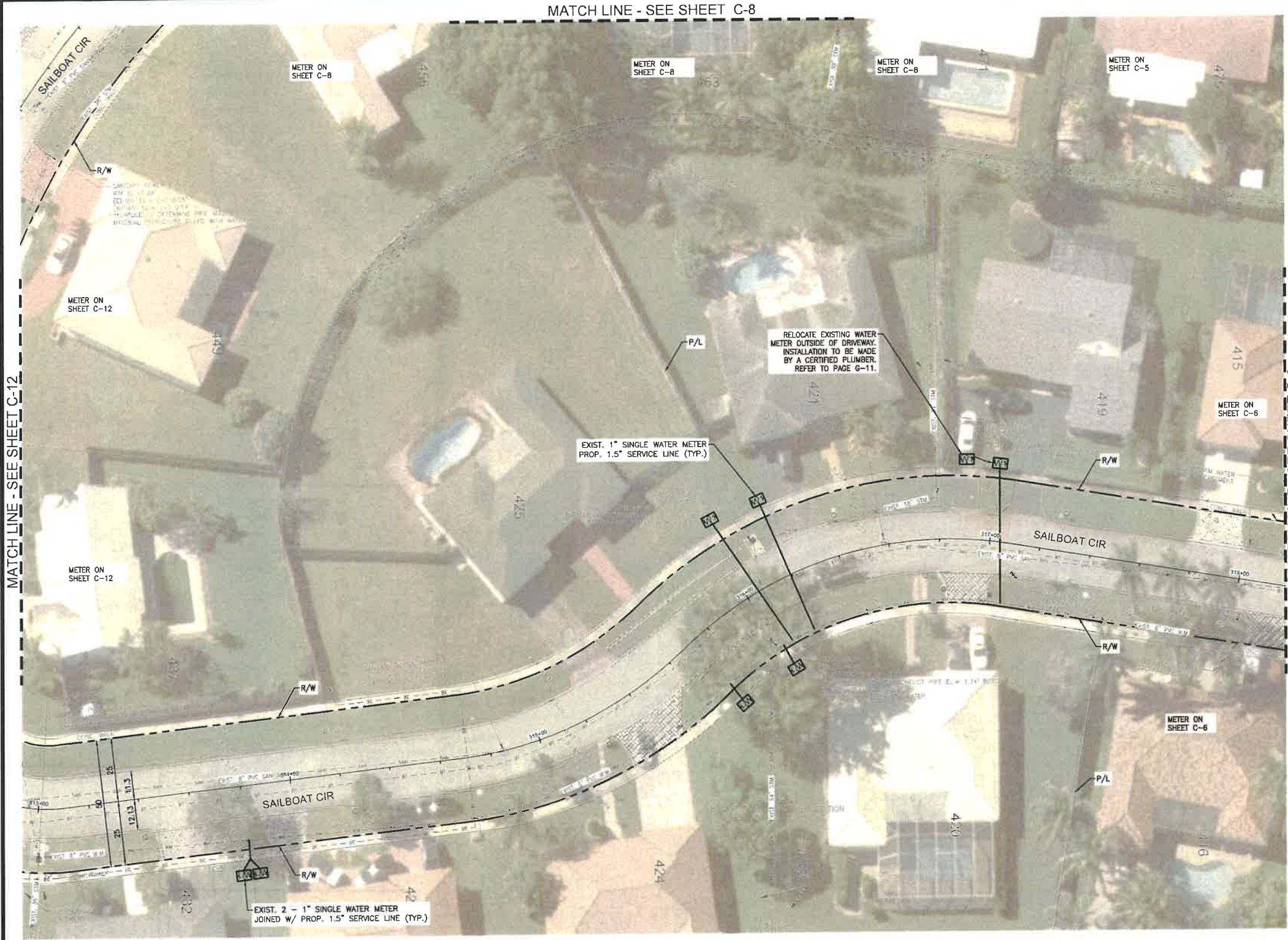
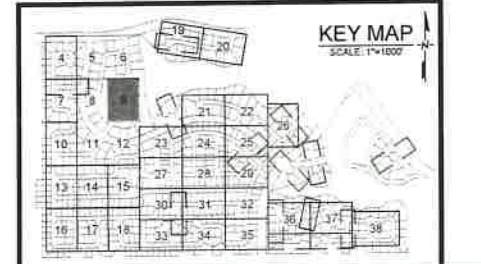
- CABLE TV OVERHEAD
- CABLE TV UNDERGROUND
- ELECTRIC OVERHEAD
- ELECTRIC UNDERGROUND
- FORCE MAIN
- GAS
- IRRIGATION
- SANTARY SEWER
- STORM SEWER
- TELEPHONE UNDERGROUND
- TRAFFIC LOOP
- WATER LATERAL
- WATER MAIN
- EXISTING FIRE HYDRANT
- 1" X 1/2" SINGLE WATER METER PROP. 1" SERVICE LINE
- 1" X 1/2" DOUBLE WATER METER PROP. 1.5" SERVICE LINE
- 1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
- 2 - 1/2" X 1/2" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
- 2 - 1" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE

**PROPOSED**

- WATER MAIN
- GATE VALVE
- PROP. FIRE HYDRANT
- TAPPING SLEEVE
- WATER SERVICE
- SOLID SLEEVE
- TEE
- WVE
- PLUG
- PLUG W/ 2" BLOW OFF VALVE
- TEST HOLE
- SAMPLING POINT

**NOTES**

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5. REPLACE EXISTING SERVICE LINES IN KIND. CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF ANY FIELD CHANGES.



RELOCATE EXISTING WATER METER OUTSIDE OF DRIVEWAY. INSTALLATION TO BE MADE BY A CERTIFIED PLUMBER. REFER TO PAGE G-11.

EXIST. 1" SINGLE WATER METER PROP. 1.5" SERVICE LINE (TYP.)

EXIST. 2 - 1" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE (TYP.)

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 FILE LOCATION: H:\PROJECTS\01712127 BONNAVENTURE WMA\01712127\_04-C15\_WMR.DWG

REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY: H.A.  
 DRAWN BY: H.A.  
 CHECKED BY: S.J.R.  
 SCALE: 1"=20'



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**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**  
 AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**WATER SERVICE LINE PLAN**



DATE: 01/28/2021  
 DRAWING NO.: C-9









**LEGEND**

**EXISTING**

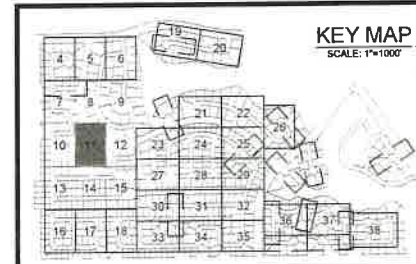
- OCATV--- CABLE TV OVERHEAD
- CATV--- CABLE TV UNDERGROUND
- OE--- ELECTRIC OVERHEAD
- BE--- ELECTRIC UNDERGROUND
- FM--- FORCE MAIN
- GAS--- GAS
- IRR--- IRRIGATION
- SAN--- SANITARY SEWER
- SSW--- STORM SEWER
- TU--- TELEPHONE UNDERGROUND
- TL--- TRAFFIC LOOP
- WL--- WATER LATERAL
- WM--- WATER MAIN
- FH--- EXISTING FIRE HYDRANT
- W1--- 1" x 3/4" SINGLE WATER METER PROP. 1" SERVICE LINE
- W2--- 1" x 3/4" DOUBLE WATER METER PROP. 1.5" SERVICE LINE
- W3--- 1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
- W4--- 2" x 1" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
- W5--- 2" - 1" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE

**PROPOSED**

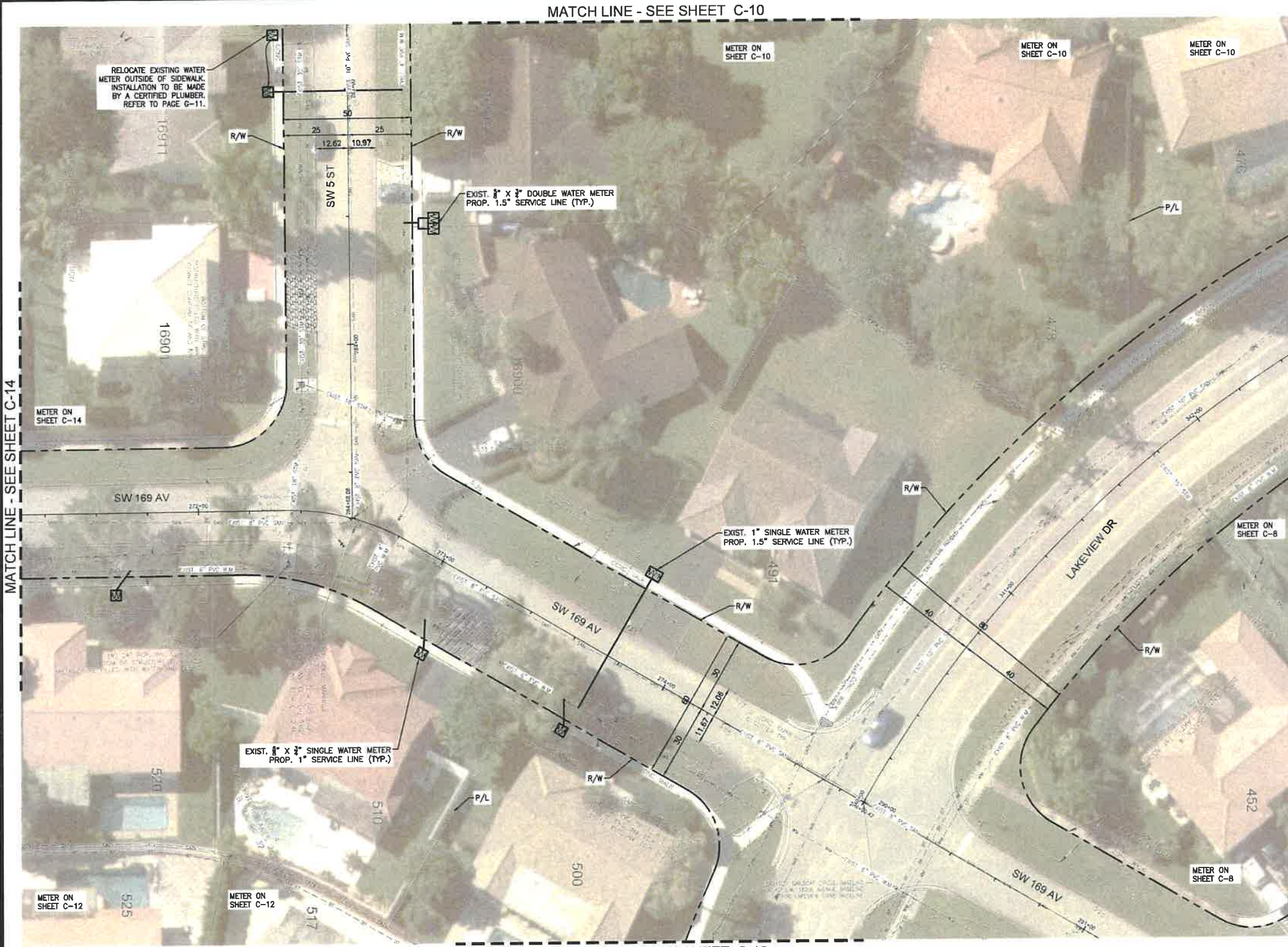
- WM--- WATER MAIN
- GV--- GATE VALVE
- FH--- PROP. FIRE HYDRANT
- TS--- TAPPING SLEEVE
- WS--- WATER SERVICE
- SS--- SOLID SLEEVE
- TEE--- TEE
- WYE--- WYE
- PLUG--- PLUG
- PUB--- PLUG W/ 2" BLOW OFF VALVE
- TH--- TEST HOLE
- SP--- SAMPLING POINT

**NOTES**

1. NO VALVES IN CURB, SIDEWALK OR DRIVEWAYS
2. ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-555 OF THE FAC AS APPLICABLE.
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PLOT DATE: 1/28/2021 4:00 PM  
 FILE LOCATION: H:\PROJECTS\0171231.07 BONNAVENTURE WMA\001\0171231.07\_C04-015\_WATR.DWG

REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY: H.A.  
 DRAWN BY: H.A.  
 CHECKED BY: S.J.R.  
 SCALE: 1"=20'



**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**  
 AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**WATER SERVICE LINE PLAN**



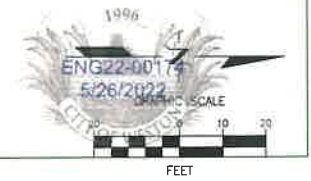
DATE: 01/28/2021  
 DRAWING NO: C-11



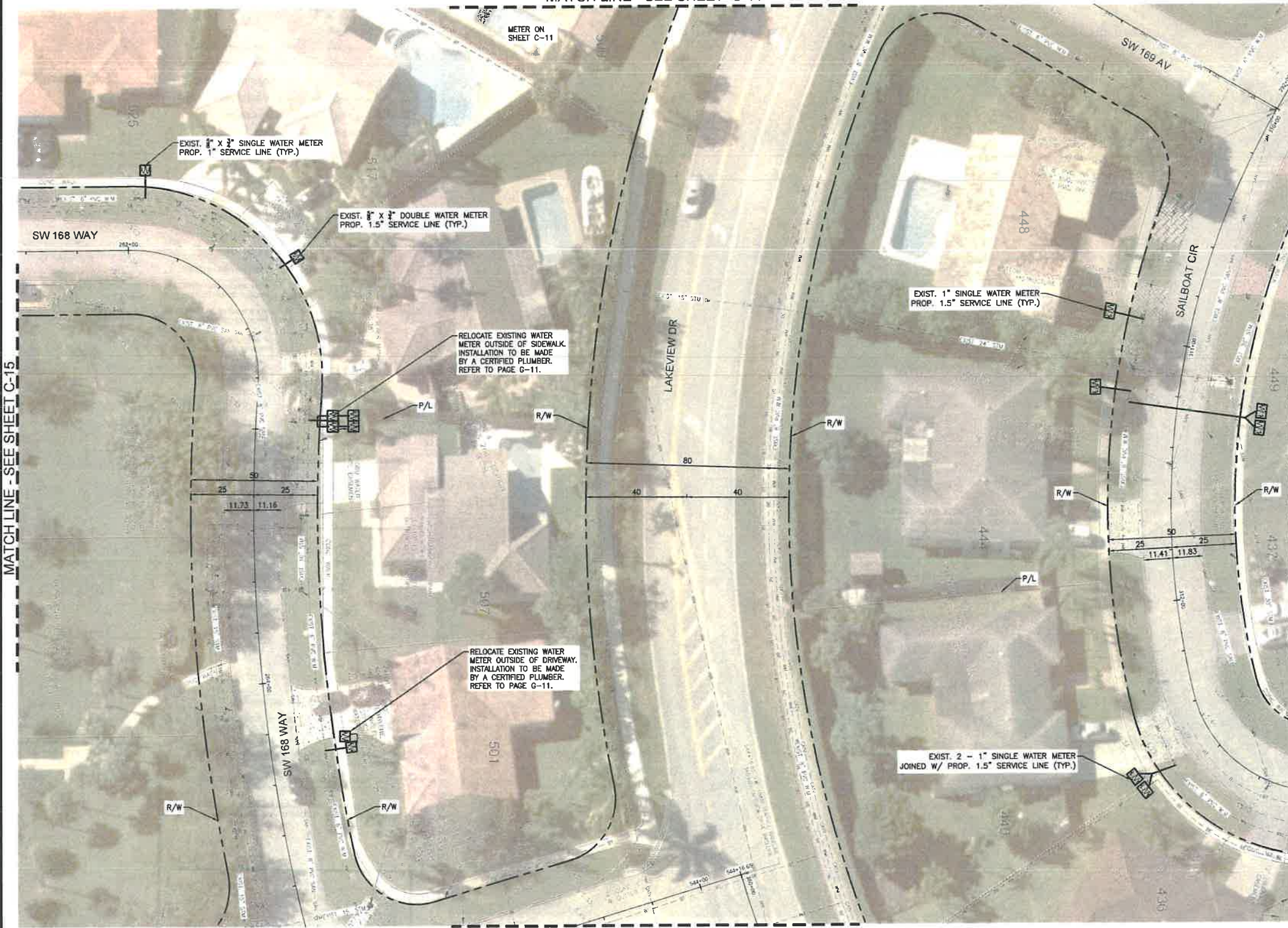
PLT DATE: 1/28/2021 4:01 PM

FILE LOCATION: H:\PROJECTS\071231.07\_BONAVENTURE\_WA\CD\071231.07\_CD-C12-WATER.DWG

BCTED REFERENCE No. 201214060



MATCH LINE - SEE SHEET C-11



**LEGEND**

**EXISTING**

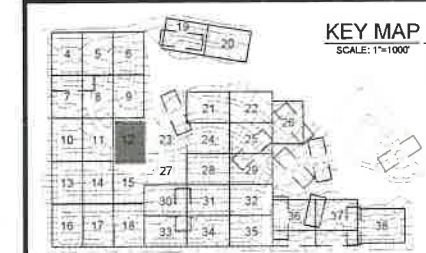
- CATV --- CABLE TV OVERHEAD
- CATV --- CABLE TV UNDERGROUND
- OE --- ELECTRIC OVERHEAD
- UE --- ELECTRIC UNDERGROUND
- FM --- FORCE MAIN
- GAS --- GAS
- IRR --- IRRIGATION
- SAN --- SANITARY SEWER
- STW --- STORM SEWER
- TUG --- TELEPHONE UNDERGROUND
- TL --- TRAFFIC LOOP
- WL --- WATER LATERAL
- WM --- WATER MAIN
- FH --- EXISTING FIRE HYDRANT
- W1 --- 1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
- W2 --- 2" SINGLE WATER METER PROP. 1.5" SERVICE LINE
- W3 --- 1" X 1/2" SINGLE WATER METER PROP. 1.5" SERVICE LINE
- W4 --- 1" X 1/2" DOUBLE WATER METER PROP. 1.5" SERVICE LINE
- W5 --- 2 - 1" X 1/2" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
- W6 --- 2 - 1" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE

**PROPOSED**

- WM --- WATER MAIN
- GV --- GATE VALVE
- PFH --- PROP. FIRE HYDRANT
- TS --- TAPPING SLEEVE
- WS --- WATER SERVICE
- SS --- SOLID SLEEVE
- TEE --- TEE
- WYE --- WYE
- PLUG --- PLUG
- PWS --- PLUG W/ 2" BLOW OFF VALVE
- TH --- TEST HOLE
- SP --- SAMPLING POINT

**NOTES**

1. NO VALVES IN CURB, SIDEWALK OR DRIVEWAYS.
2. ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-555 OF THE FAC AS APPLICABLE.
3. RESTORE EXISTING VALVES AND MANHOLES AT PROPOSED CONNECTIONS TO CITY STANDARDS.
4. CITY OF SUNRISE DETAILS AND SPECIFICATIONS WILL GOVERN FOR WATER DISTRIBUTION INSTALLATION.
5. REPLACE EXISTING SERVICE LINES IN KIND. CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF ANY FIELD CHANGES.



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REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY: H.A.  
 DRAWN BY: H.A.  
 CHECKED BY: S.J.R.  
 SCALE: 1"=20'

**bcc engineering**

6401 SW 87th Ave, Ste. 200  
 Miami, Florida 33173  
 Tel: 305.670.2350 Fax: 305.670.2351  
 www.bcceng.com  
 Certificate of Authorization No. 7184

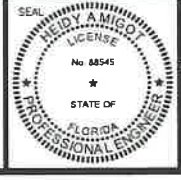


**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**

AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE

**WATER SERVICE LINE PLAN**



DATE: 01/28/2021  
 DRAWING NO.: C-12





**LEGEND**

**EXISTING**

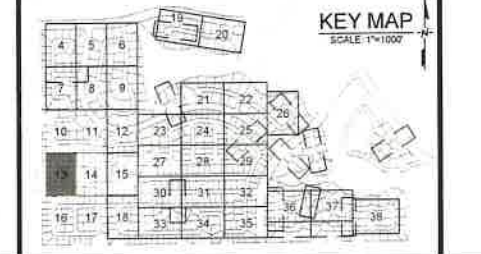
- OCATV --- CABLE TV OVERHEAD
- CATV --- CABLE TV UNDERGROUND
- OE --- ELECTRIC OVERHEAD
- DE --- ELECTRIC UNDERGROUND
- FM --- FORCE MAIN
- GAS --- GAS
- IRR --- IRRIGATION
- SAN --- SANITARY SEWER
- STW --- STORM SEWER
- UT --- TELEPHONE UNDERGROUND
- TRFL --- TRAFFIC LOOP
- WL --- WATER LATERAL
- WM --- WATER MAIN
- EXISTING FIRE HYDRANT
- 1" X 3/4" SINGLE WATER METER PROP. 1" SERVICE LINE
- 1" X 1/2" DOUBLE WATER METER PROP. 1.5" SERVICE LINE
- 1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
- 2- 1/2" X 3/4" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
- 2- 1" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE

**PROPOSED**

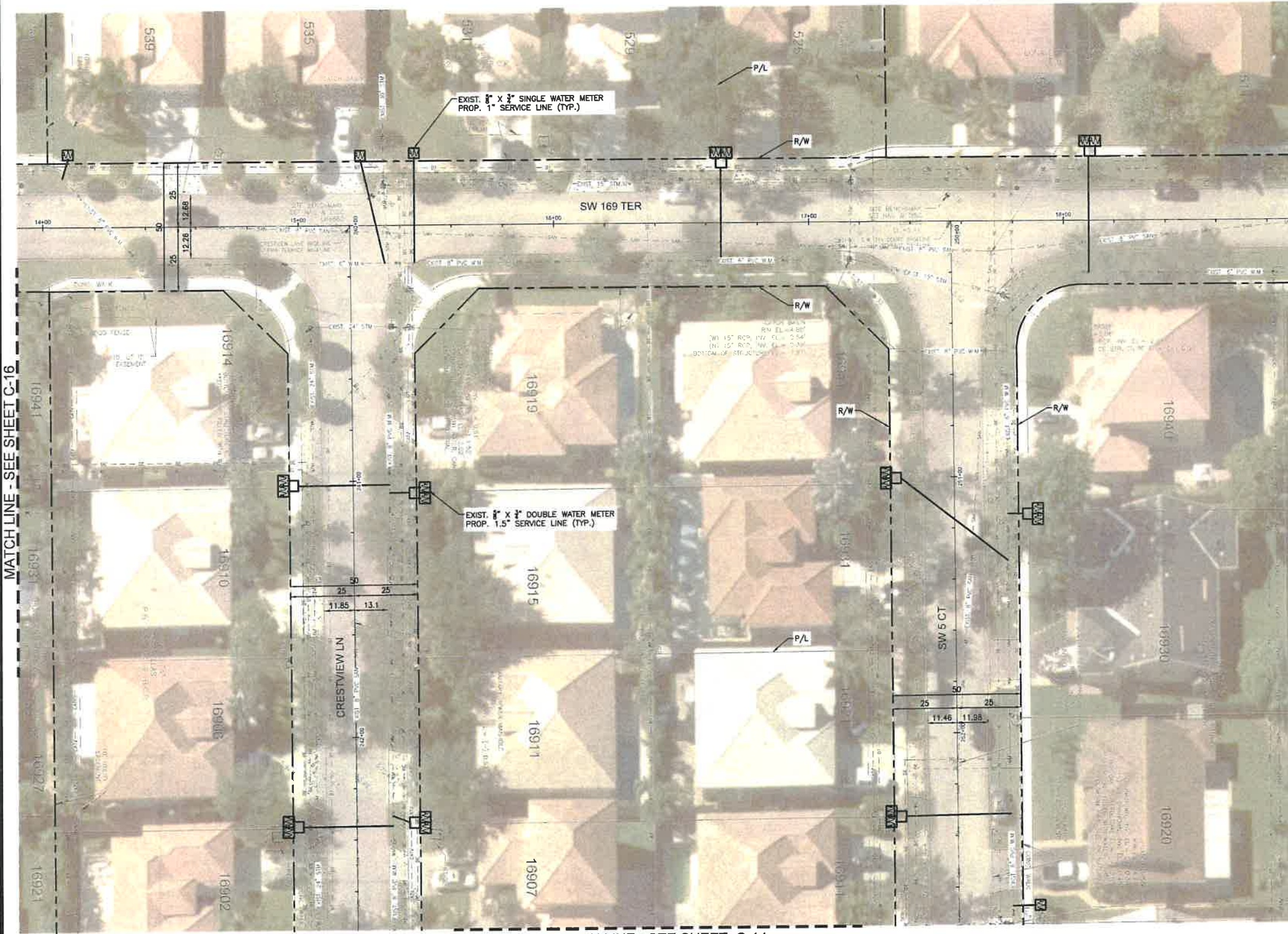
- WATER MAIN
- GATE VALVE
- PROP. FIRE HYDRANT
- TAPPING SLEEVE
- WATER SERVICE
- SOLID SLEEVE
- TEE
- WVE
- PLUG
- PLUG W/ 2" BLOW OFF VALVE
- TEST HOLE
- SAMPLING POINT

**NOTES**

1. NO VALVES IN CURB, SIDEWALK, OR DRIVEWAYS
2. ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-555 OF THE FAC AS APPLICABLE.
3. RESTORE EXISTING VALVES AND MANHOLES AT PROPOSED CONNECTIONS TO CITY STANDARDS.
4. CITY OF SUNRISE DETAILS AND SPECIFICATIONS WILL GOVERN FOR WATER DISTRIBUTION INSTALLATION.
5. REPLACE EXISTING SERVICE LINES IN KIND. CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF ANY FIELD CHANGES.



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MATCH LINE - SEE SHEET C-16

MATCH LINE - SEE SHEET C-10

MATCH LINE - SEE SHEET C-14

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 SCALE: 1"=20'

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**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**

AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE

**WATER SERVICE LINE PLAN**

DATE: 01/28/2021

DRAWING NO. C-13

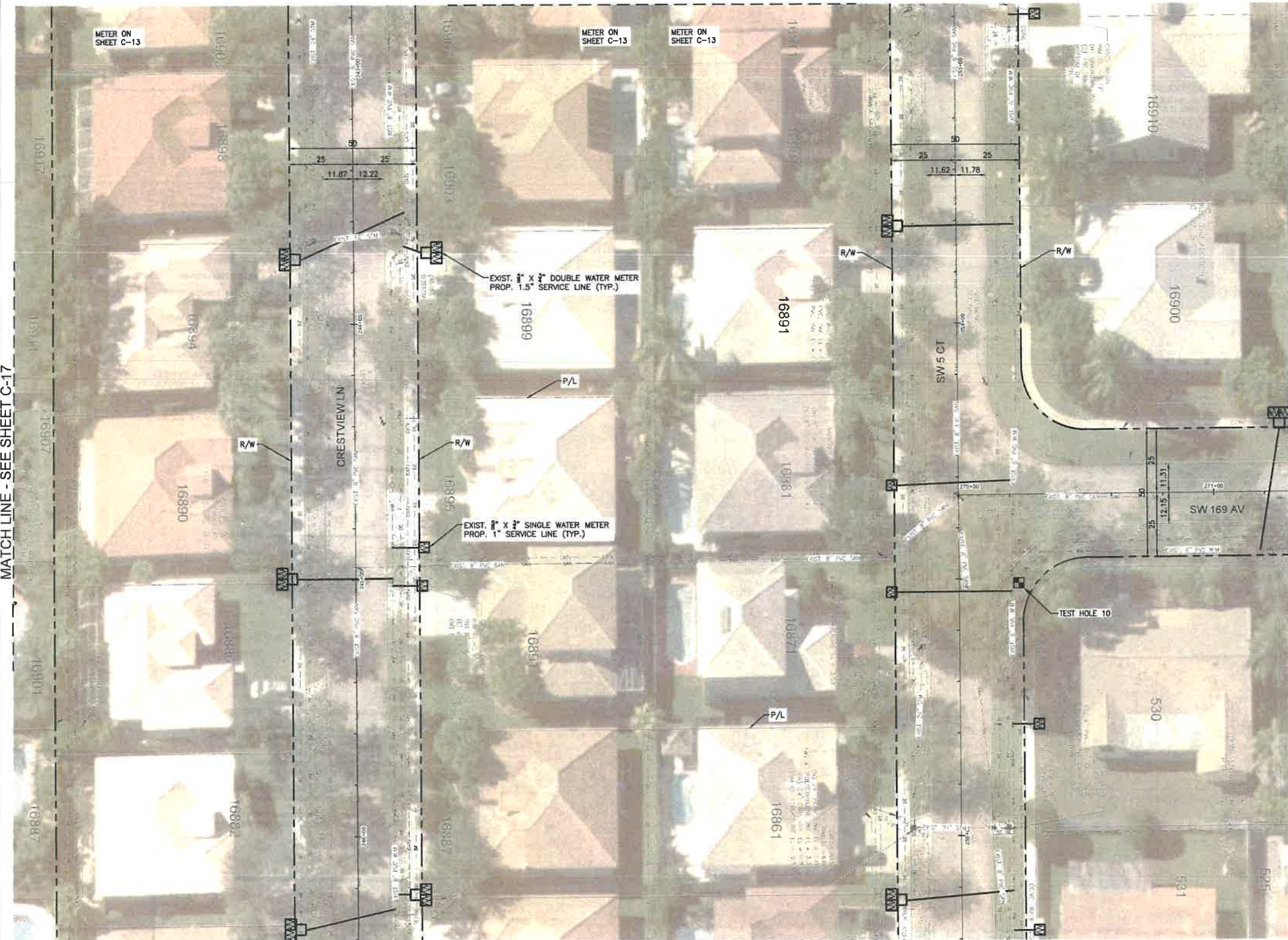


PLOT DATE: 1/28/2021 4:04 PM

FILE LOCATION: H:\PROJECTS\0171231.07\_BNAVENTURE\WATER\04-015\_WATER.DWG

MATCH LINE - SEE SHEET C-13

BCTED REFERENCE No. 201214060



MATCH LINE - SEE SHEET C-15

**LEGEND**

**EXISTING**

- OCATV --- CABLE TV OVERHEAD
- CATV --- CABLE TV UNDERGROUND
- OE --- ELECTRIC OVERHEAD
- UE --- ELECTRIC UNDERGROUND
- FM --- FORCE MAIN
- GAS --- GAS
- IRR --- IRRIGATION
- SAN --- SANITARY SEWER
- STM --- STORM SEWER
- UT --- TELEPHONE UNDERGROUND
- TL --- TRAFFIC LOOP
- WM --- WATER MAIN
- WL --- WATER LATERAL
- WH --- EXISTING FIRE HYDRANT
- X --- 1" SINGLE WATER METER PROP. 1" SERVICE LINE
- X --- 1.5" DOUBLE WATER METER PROP. 1.5" SERVICE LINE
- X --- 1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
- X --- 2" SINGLE WATER-METER JOINED W/ PROP. 1.5" SERVICE LINE
- X --- 2-1" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE

**PROPOSED**

- WM --- WATER MAIN
- G --- GATE VALVE
- F --- PROP. FIRE HYDRANT
- T --- TAPPING SLEEVE
- S --- WATER SERVICE
- SL --- SOLID SLEEVE
- TEE --- TEE
- W --- WYE
- P --- PLUG
- P --- PLUG W/ 2" BLOW OFF VALVE
- TH --- TEST HOLE
- SP --- SAMPLING POINT

**NOTES**

1. NO VALVES IN CURB, SIDEWALK OR DRIVEWAYS.
2. ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-555 OF THE FAC AS APPLICABLE.
3. RESTORE EXISTING VALVES AND MANHOLES AT PROPOSED CONNECTIONS TO CITY STANDARDS.
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5. REPLACE EXISTING SERVICE LINES IN KIND. CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF ANY FIELD CHANGES.

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REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY: HA  
 DRAWN BY: HA  
 CHECKED BY: S.J.R.  
 SCALE: 1"=20'

**bcc engineering**

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 www.bcceng.com  
 Certificate of Authorization No. 7184



**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**

AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**WATER SERVICE LINE PLAN**



DATE: 01/28/2021  
 DRAWING NO.: C-14





**LEGEND**

**EXISTING**

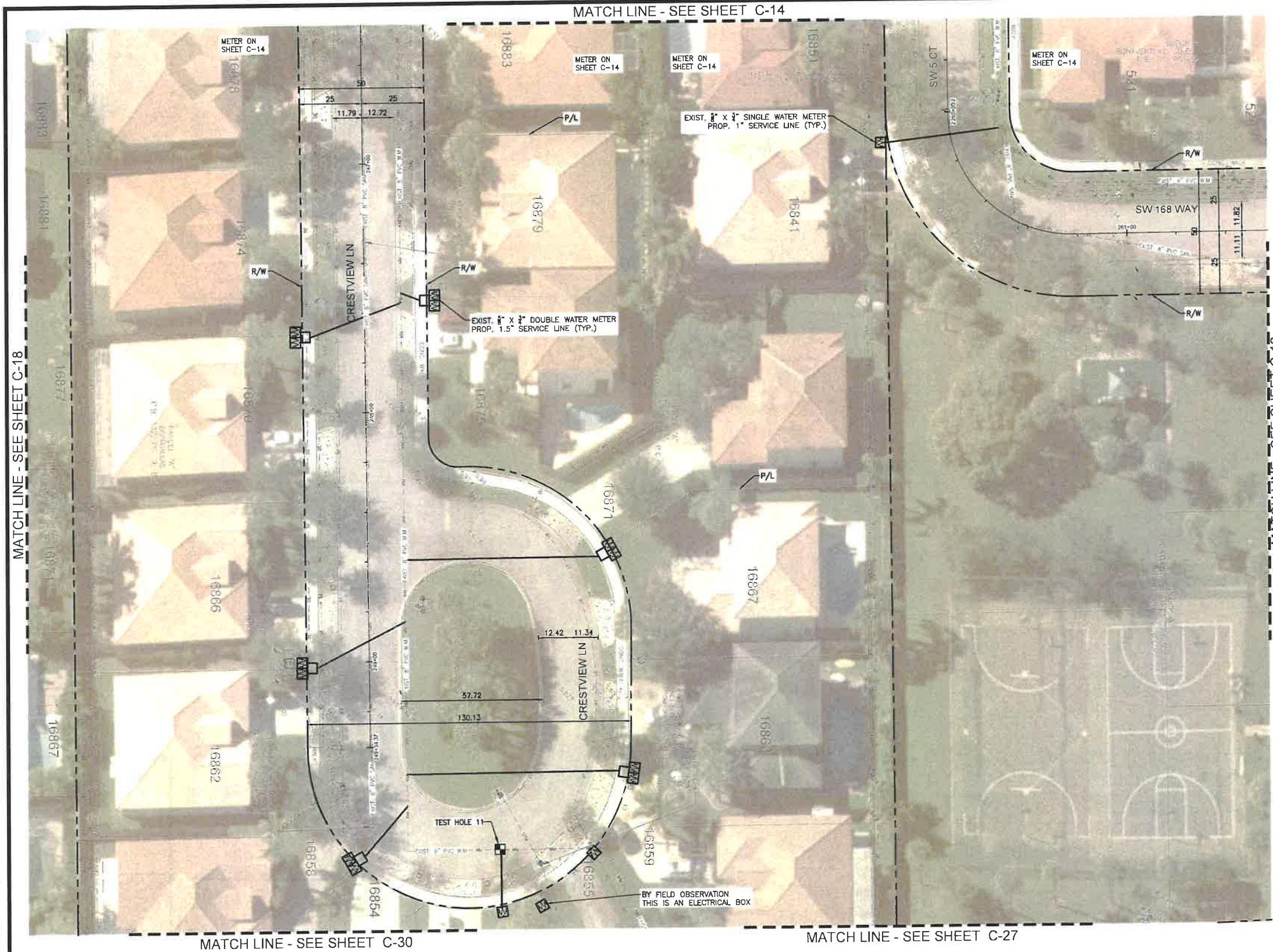
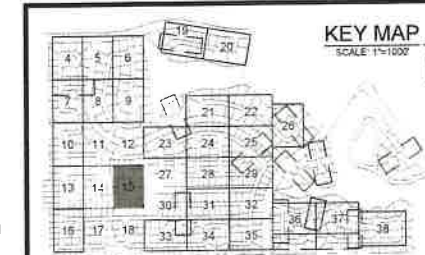
- DE-IV --- CABLE TV OVERHEAD
- CA-TV --- CABLE TV UNDERGROUND
- OE --- ELECTRIC OVERHEAD
- UE --- ELECTRIC UNDERGROUND
- FM --- FORCE MAIN
- GAS --- GAS
- IRR --- IRRIGATION
- SAN --- SANITARY SEWER
- STW --- STORM SEWER
- TU --- TELEPHONE UNDERGROUND
- TL --- TRAFFIC LOOP
- WL --- WATER LATERAL
- WM --- WATER MAIN
- FHD --- EXISTING FIRE HYDRANT
- SWSM --- 1/2" x 3/4" SINGLE WATER METER PROP. 1" SERVICE LINE
- DWSM --- 1/2" x 3/4" DOUBLE WATER METER PROP. 1.5" SERVICE LINE
- SWSM --- 1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
- JWSM --- 2 - 1/2" x 3/4" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
- JWSM --- 2 - 1" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE

**PROPOSED**

- WM --- WATER MAIN
- GV --- GATE VALVE
- FHD --- PROP. FIRE HYDRANT
- TS --- TAPPING SLEEVE
- WS --- WATER SERVICE
- SS --- SOLID SLEEVE
- TEE --- TEE
- WYE --- WYE
- PLUG --- PLUG
- PWOV --- PLUG W/ 2" BLOW OFF VALVE
- TH --- TEST HOLE
- SP --- SAMPLING POINT

**NOTES**

1. NO VALVES IN CURB, SIDEWALK OR DRIVEWAYS.
2. ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-555 OF THE FAC AS APPLICABLE.
3. RESTORE EXISTING VALVES AND MANHOLES AT PROPOSED CONNECTIONS TO CITY STANDARDS.
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5. REPLACE EXISTING SERVICE LINES IN KIND. CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF ANY FIELD CHANGES.



MATCH LINE - SEE SHEET C-18

MATCH LINE - SEE SHEET C-12

MATCH LINE - SEE SHEET C-30

MATCH LINE - SEE SHEET C-27

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REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY: HA  
 DRAWN BY: HA  
 CHECKED BY: S.J.R.  
 SCALE: 1"=20'

**bcc engineering**

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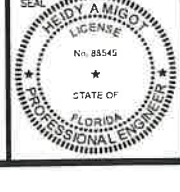


**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**

AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE

**WATER SERVICE LINE PLAN**

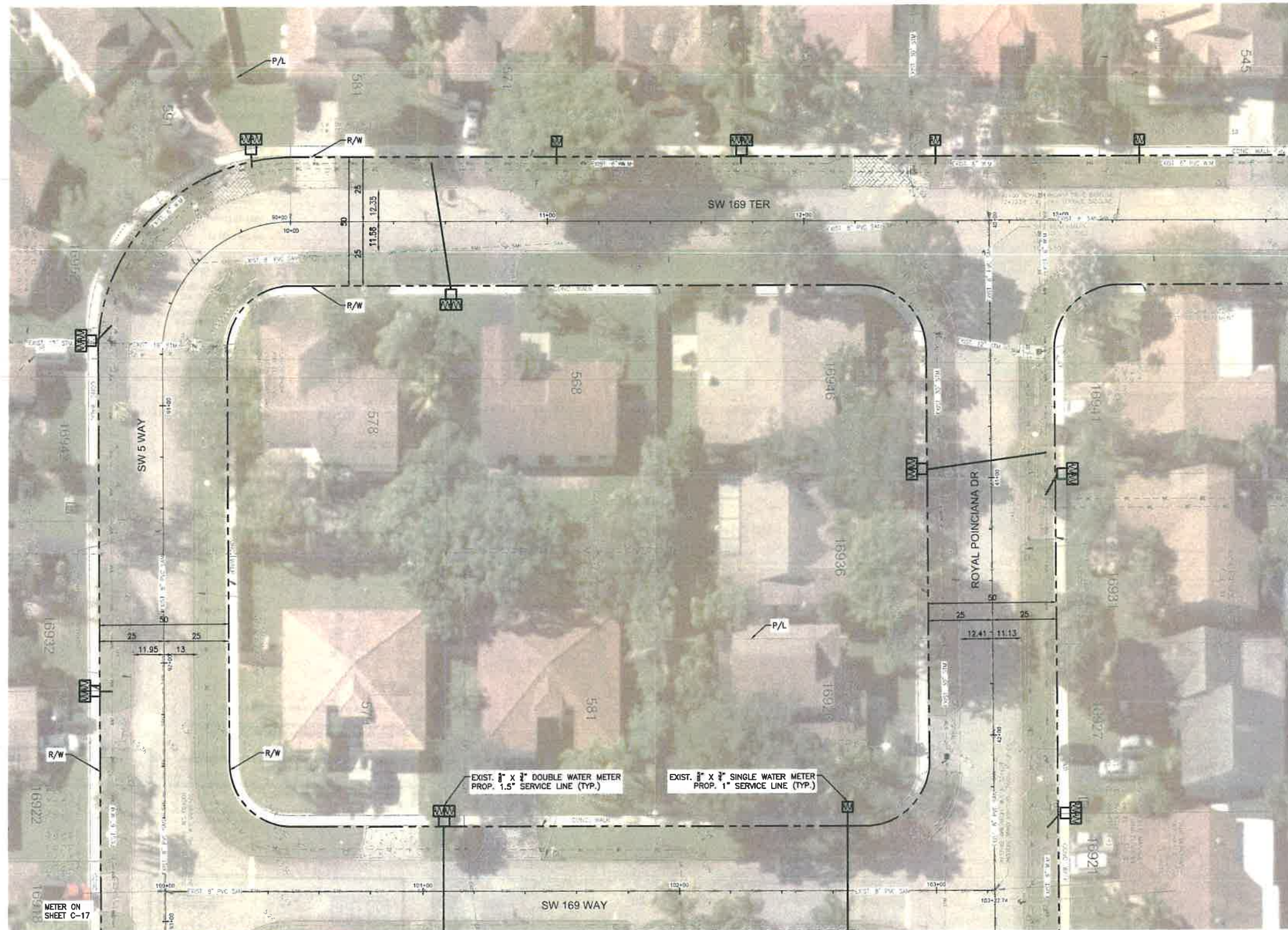


DATE: 01/28/2021  
 DRAWING NO.: C-15



PLOT DATE: 1/28/2021 4:08 PM

BCTED REFERENCE No. 201214060



**LEGEND**

**EXISTING**

- CATV --- CABLE TV OVERHEAD
- CATV --- CABLE TV UNDERGROUND
- OE --- ELECTRIC OVERHEAD
- OE --- ELECTRIC UNDERGROUND
- FM --- FORCE MAIN
- GAS --- GAS
- IRR --- IRRIGATION
- SAN --- SANITARY SEWER
- STW --- STORM SEWER
- TEL --- TELEPHONE UNDERGROUND
- TLF --- TRAFFIC LOOP
- WL --- WATER LATERAL
- WM --- WATER MAIN
- FHY --- EXISTING FIRE HYDRANT
- X 1/2 --- 1/2" SINGLE WATER METER PROP. 1" SERVICE LINE
- X 3/4 --- 3/4" SINGLE WATER METER PROP. 1.5" SERVICE LINE
- X 1 --- 1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
- X 2 --- 2" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
- X 2 --- 2" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE

**PROPOSED**

- WM --- WATER MAIN
- GV --- GATE VALVE
- FHY --- PROP. FIRE HYDRANT
- TS --- TAPPING SLEEVE
- WS --- WATER SERVICE
- SS --- SOLID SLEEVE
- TEE --- TEE
- WYE --- WYE
- PLUG --- PLUG
- PWB --- PLUG W/ 2" BLOW OFF VALVE
- TH --- TEST HOLE
- SP --- SAMPLING POINT

- NOTES**
- NO VALVES IN CURB, SIDEWALK, OR DRIVEWAYS.
  - ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-555 OF THE FAC AS APPLICABLE.
  - RESTORE EXISTING VALVES AND MANHOLES AT PROPOSED CONNECTIONS TO CITY STANDARDS.
  - CITY OF SUNRISE DETAILS AND SPECIFICATIONS WILL GOVERN FOR WATER DISTRIBUTION INSTALLATION.
  - REPLACE EXISTING SERVICE LINES IN KIND. CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF ANY FIELD CHANGES.



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REVISIONS		
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DESIGNED BY: H.A.  
 DRAWN BY: H.A.  
 CHECKED BY: S.J.R.  
 SCALE: 1"=20'

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 Miami, Florida 33173  
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 www.bcceng.com  
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**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**

AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE

**WATER SERVICE LINE PLAN**

DATE: 01/28/2021

DRAWING NO: C-16

FILE LOCATION: H:\PROJECTS\0171231\_07\_BONAVENTURE\_WA\CD\0171231\_07\_C16-C17\_WATER.DWG





**LEGEND**

**EXISTING**

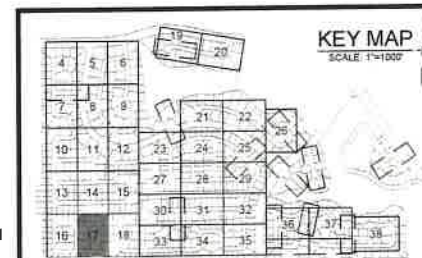
- CACTV --- CABLE TV OVER-HEAD
- CATV --- CABLE TV UNDERGROUND
- OE --- ELECTRIC OVER-HEAD
- RE --- ELECTRIC UNDERGROUND
- FM --- FORCE MAIN
- GAS --- GAS
- IRR --- IRRIGATION
- SAN --- SANITARY SEWER
- STM --- STORM SEWER
- T --- TELEPHONE UNDERGROUND
- TLO --- TRAFFIC LOOP
- WL --- WATER LATERAL
- WM --- WATER MAIN
- FHY --- EXISTING FIRE HYDRANT
- W1 --- 1" X 3/4" SINGLE WATER METER PROP. 1" SERVICE LINE
- W2 --- 1" X 1/2" DOUBLE WATER METER PROP. 1.5" SERVICE LINE
- W3 --- 1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
- W4 --- 2 - 1/2" X 1/2" SINGLE WATER METER JOINED W PROP. 1.5" SERVICE LINE
- W5 --- 2 - 1" SINGLE WATER METER JOINED W PROP. 1.5" SERVICE LINE

**PROPOSED**

- WM --- WATER MAIN
- GV --- GATE VALVE
- FHY --- PROP. FIRE HYDRANT
- TS --- TAPPING SLEEVE
- WS --- WATER SERVICE
- SS --- SOLID SLEEVE
- TEE --- TEE
- WYE --- WYE
- PLUG --- PLUG
- PWOV --- PLUG W 2" BLOW OFF VALVE
- TH --- TEST HOLE
- SP --- SAMPLING POINT

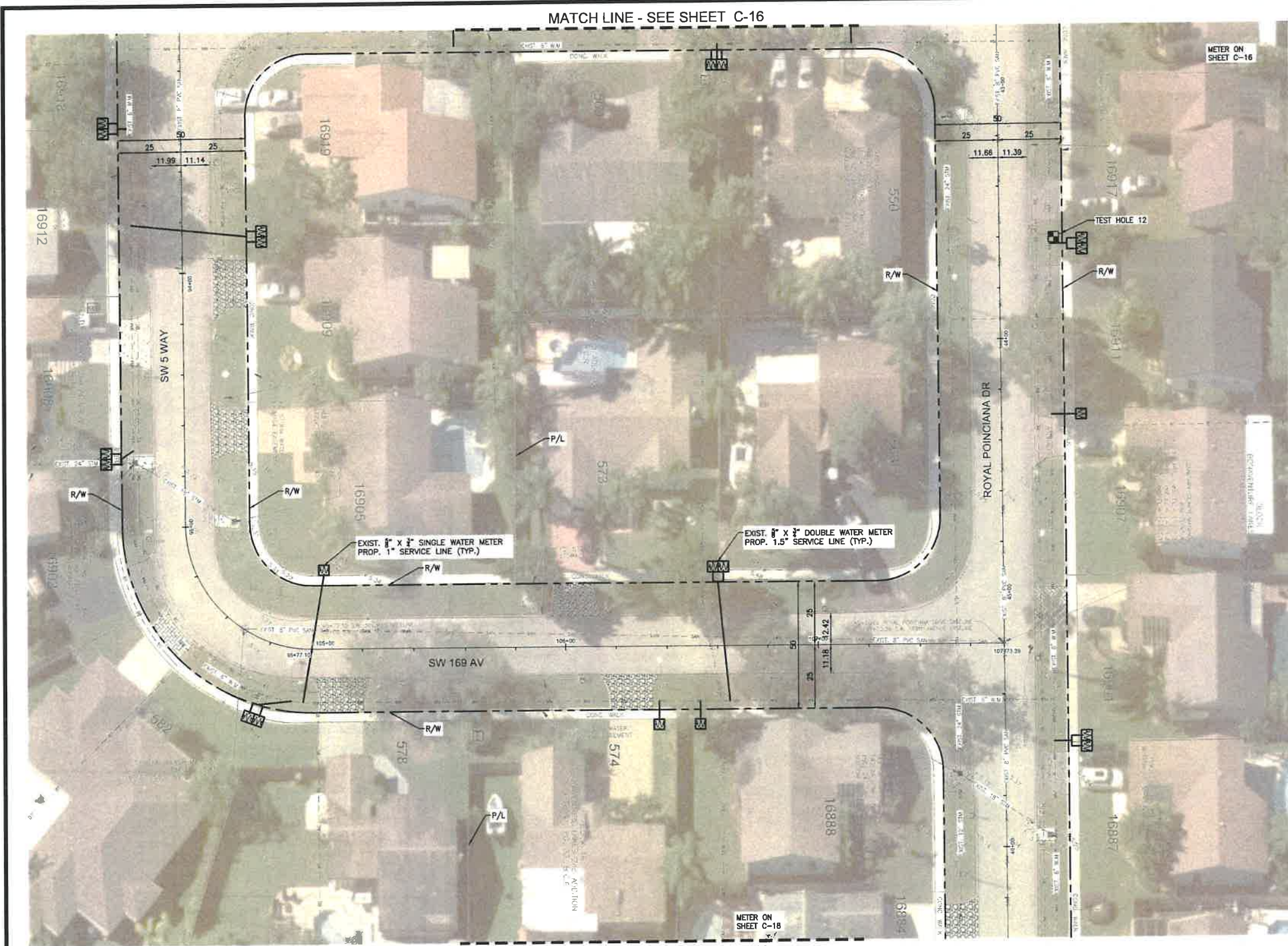
**NOTES**

1. NO VALVES IN CURB, SIDEWALK, OR DRIVEWAYS.
2. ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-555 OF THE FAC AS APPLICABLE.
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5. REPLACE EXISTING SERVICE LINES IN KIND. CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF ANY FIELD CHANGES.



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MATCH LINE - SEE SHEET C-16

MATCH LINE - SEE SHEET C-18

MATCH LINE - SEE SHEET C-14

FILE LOCATION: H:\PROJECTS\0171231\_07\_BONAVENTURE\_WATER\0171231\_07\_516-C17\_WATER.DWG  
 PLOT DATE: 1/28/2021 4:09 PM

REVISIONS		
NO.	DATE	DESCRIPTION

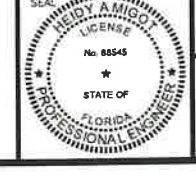
DESIGNED BY: H.A.  
 DRAWN BY: H.A.  
 CHECKED BY: S.J.R.  
 SCALE: 1"=20'


**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**  
 6401 SW 87th Ave, Ste. 200  
 Miami, Florida 33173  
 Tel: 305.670.2350 Fax: 305.670.2351  
 www.bcceng.com  
 Certificate of Authorization No. 7184



**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**  
 AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**WATER SERVICE LINE PLAN**



DATE: 01/28/2021  
 DRAWING NO.: C-17

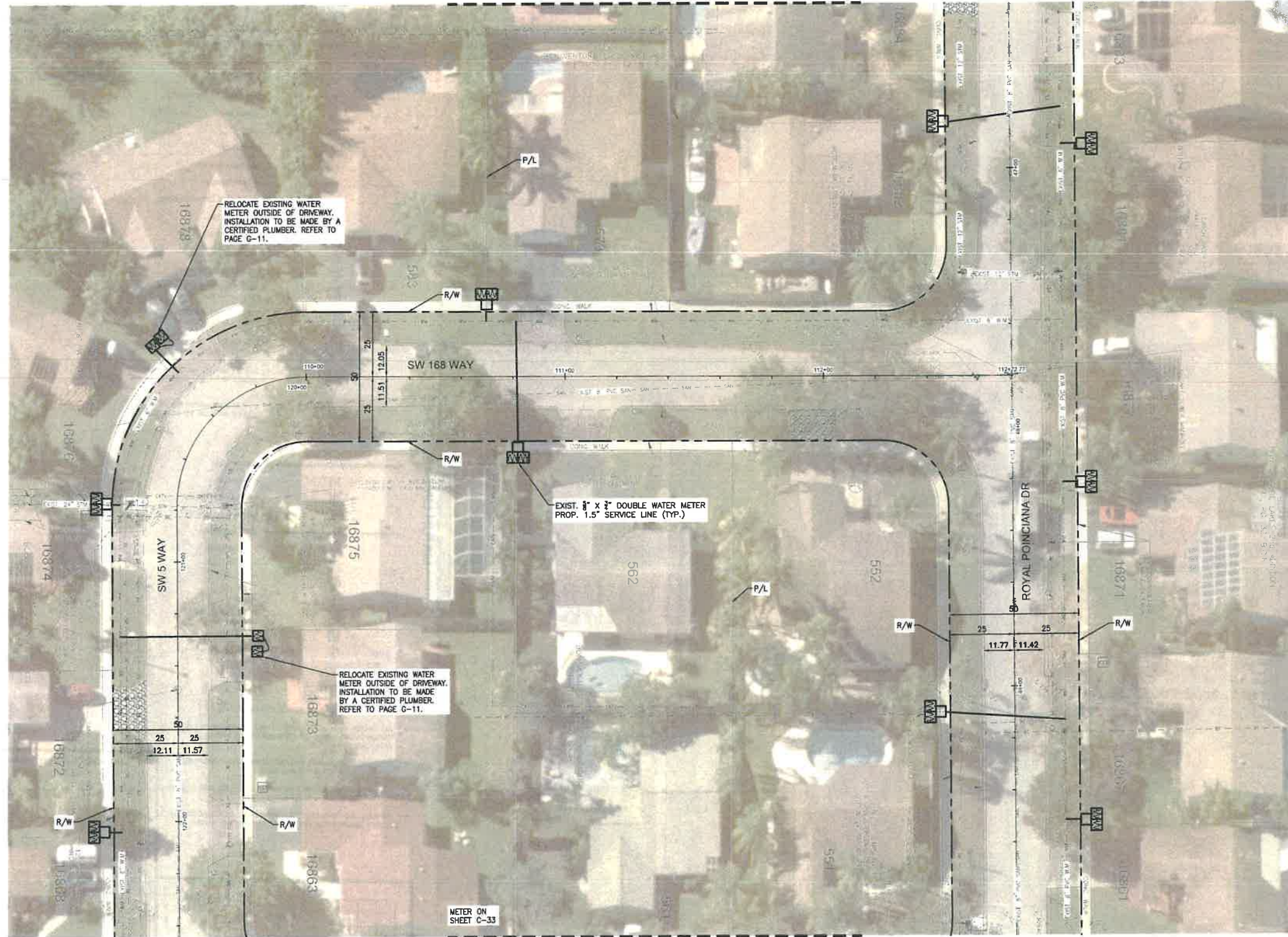


PLOT DATE: 1/28/2021 4:10 PM

FILE LOCATION: H:\PROJECTS\0171231\_07\_BONAVENTURE\WVA\DWG\0171231\_07\_C16-C27\_WSR.DWG

MATCH LINE - SEE SHEET C-17

BCTD REFERENCE No. 201214060



**LEGEND**

**EXISTING**

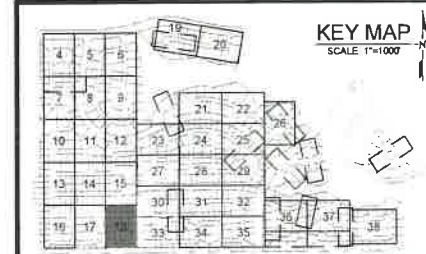
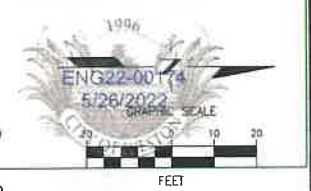
- C-C-V --- CABLE TV OVERHEAD
- C-U-V --- CABLE TV UNDERGROUND
- O-E --- ELECTRIC OVERHEAD
- E-U --- ELECTRIC UNDERGROUND
- F-M --- FORCE MAIN
- G --- GAS
- I --- IRRIGATION
- S-A-Y --- SANITARY SEWER
- S-T-V --- STORM SEWER
- T-U --- TELEPHONE UNDERGROUND
- T-L --- TRAFFIC LOOP
- W-L --- WATER LATERAL
- W-M --- WATER MAIN
- F-H --- EXISTING FIRE HYDRANT
- W-M --- 8" x 3" SINGLE WATER METER PROP. 1" SERVICE LINE
- W-M --- 8" x 3" DOUBLE WATER METER PROP. 1.5" SERVICE LINE
- W-M --- 1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
- W-M --- 2" x 3" SINGLE WATER METER JOINED W PROP. 1.5" SERVICE LINE
- W-M --- 2-1" SINGLE WATER METER JOINED W PROP. 1.5" SERVICE LINE

**PROPOSED**

- W-M --- WATER MAIN
- G-V --- GATE VALVE
- F-H --- PROP. FIRE HYDRANT
- T-S --- TAPPING SLEEVE
- W-S --- WATER SERVICE
- S-S --- SOLID SLEEVE
- T --- TEE
- W-Y --- WYE
- P --- PLUG
- P-W-V --- PLUG W 2" BLOW OFF VALVE
- T-H --- TEST HOLE
- S-P --- SAMPLING POINT

**NOTES**

1. NO VALVES IN CURB, SIDEWALK, OR DRIVEWAYS.
2. ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-555 OF THE FAC AS APPLICABLE.
3. RESTORE EXISTING VALVES AND MANHOLES AT PROPOSED CONNECTIONS TO CITY STANDARDS.
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REVISIONS		
NO.	DATE	DESCRIPTION

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 DRAWN BY: H.A.  
 CHECKED BY: S.J.R.  
 SCALE: 1"=20'

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 www.bcceng.com  
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**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**

AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

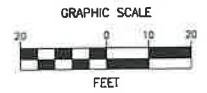
SHEET TITLE

**WATER SERVICE LINE PLAN**

DATE: 01/28/2021

DRAWING NO: C-18





**LEGEND**

**EXISTING**

- CATV --- CABLE TV OVERHEAD
- CATV --- CABLE TV UNDERGROUND
- OE --- ELECTRIC OVERHEAD
- UE --- ELECTRIC UNDERGROUND
- FM --- FORCE MAIN
- GAS --- GAS
- IRR --- IRRIGATION
- SAN --- SANITARY SEWER
- STM --- STORM SEWER
- T --- TELEPHONE UNDERGROUND
- TR --- TRAFFIC LOOP
- WL --- WATER LATERAL
- WM --- WATER MAIN

- FH --- EXISTING FIRE HYDRANT
- X 1/2 --- SINGLE WATER METER PROP. 1" SERVICE LINE
- X 3/4 --- DOUBLE WATER METER PROP. 1.5" SERVICE LINE
- 1" --- 1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
- 2-1/2" --- 2-1/2" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
- 2-1" --- 2-1" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE

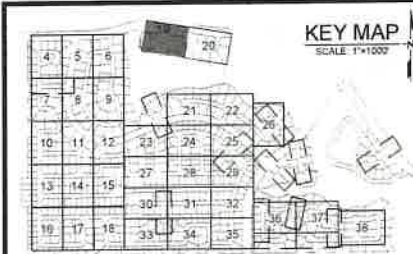
**PROPOSED**

- WM --- WATER MAIN
- GV --- GATE VALVE
- FH --- PROP. FIRE HYDRANT
- TS --- TAPPING SLEEVE
- WS --- WATER SERVICE
- SS --- SOLID SLEEVE
- TEE --- TEE
- WYE --- WYE
- PLUG --- PLUG W/ 2" BLOW OFF VALVE
- TH --- TEST HOLE
- SP --- SAMPLING POINT

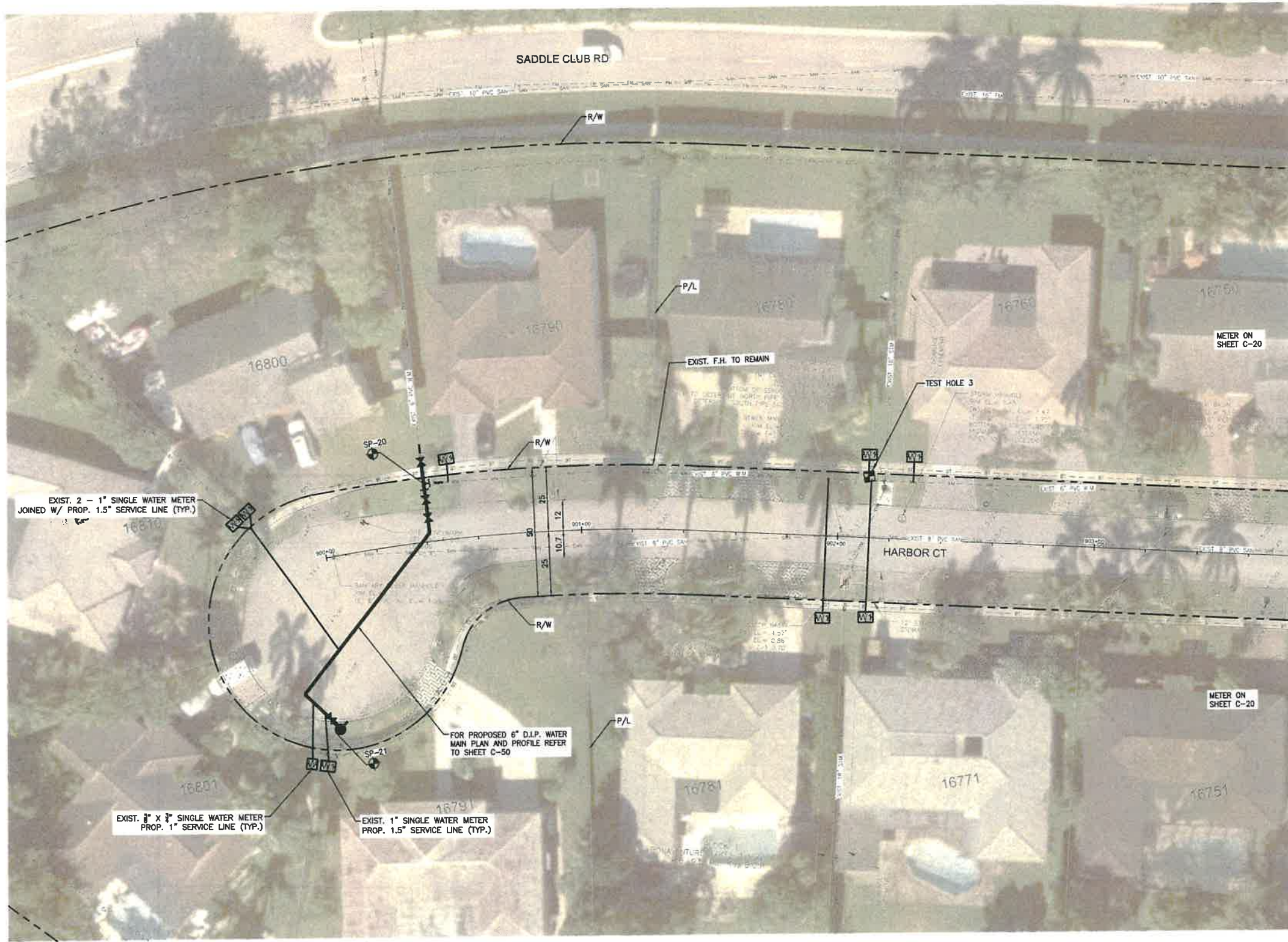
**NOTES**

1. NO VALVES IN CURB, SIDEWALK, OR DRIVEWAYS.
2. ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-555 OF THE FAC AS APPLICABLE.
3. RESTORE EXISTING VALVES AND MANHOLES AT PROPOSED CONNECTIONS TO CITY STANDARDS.
4. CITY OF SUNRISE DETAILS AND SPECIFICATIONS WILL GOVERN FOR WATER DISTRIBUTION INSTALLATION.
5. REPLACE EXISTING SERVICE LINES IN KIND CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF ANY FIELD CHANGES.

LEAVE BLANK - FOR CITY USE ONLY



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MATCH LINE - SEE SHEET C-20

PLOT DATE: 1/28/2021 4:11 PM

FILE LOCATION: H:\PROJECTS\0171231.07 BONNAVENTURE\_WA\CA\0171231\_07\_C16-C22\_WA1R.DWG

REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY: H.A.  
 DRAWN BY: H.A.  
 CHECKED BY: S.J.R.  
 SCALE: 1"=20'

**bcc engineering**

6401 SW 87th Ave, Ste. 200  
 Miami, Florida 33173  
 Tel: 305.670.2350 Fax: 305.670.2351  
 www.bcceng.com  
 Certificate of Authorization No. 7184



**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**

AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

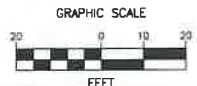
SHEET TITLE

**WATER SERVICE LINE PLAN**



DATE: 01/28/2021  
 DRAWING NO.: C-19





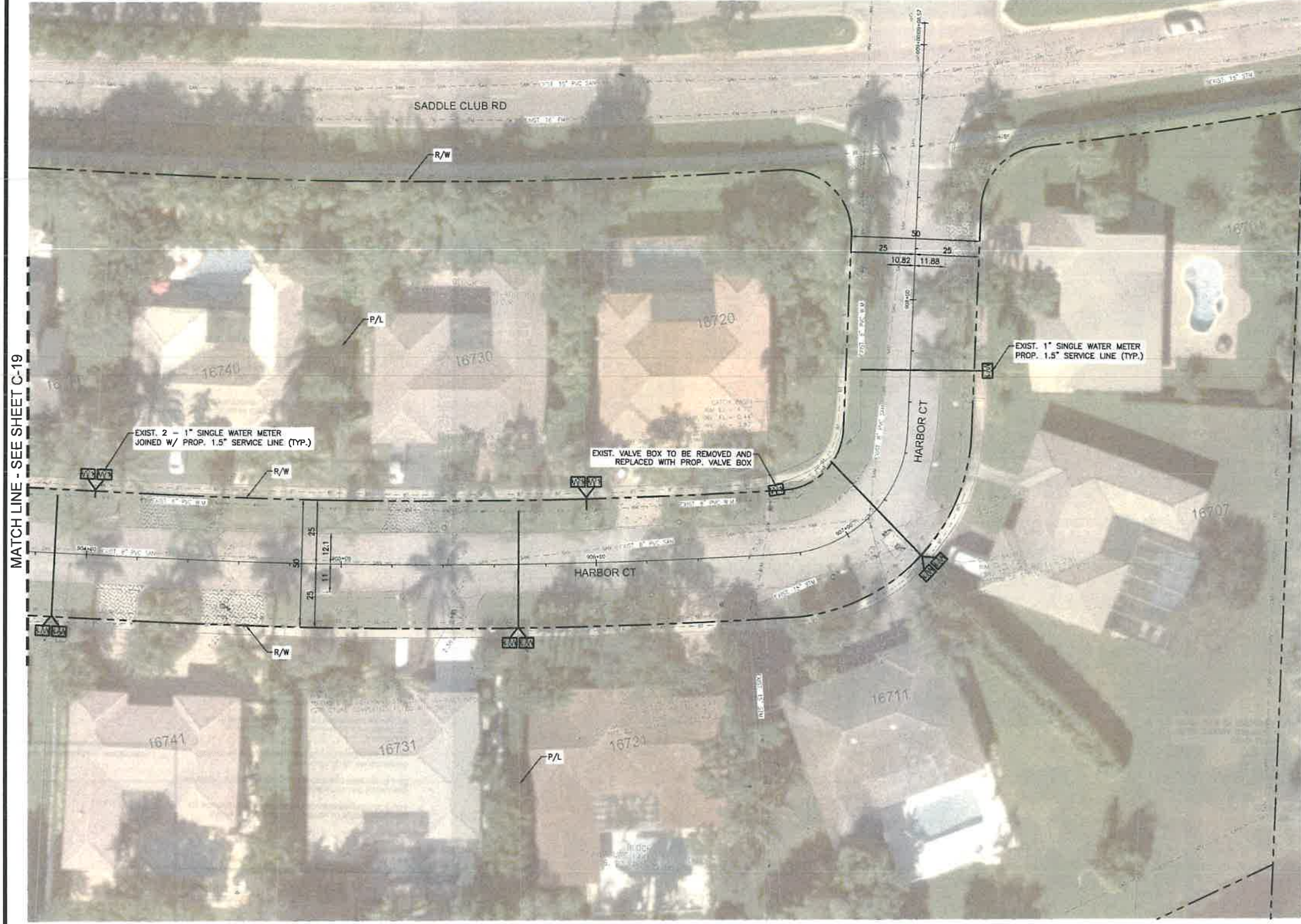
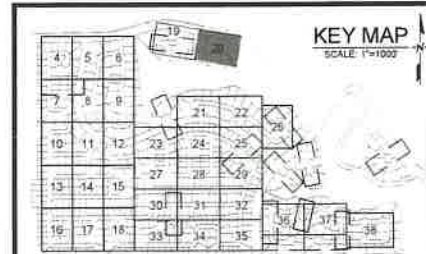
**LEGEND**

- EXISTING**
- OCATV --- CABLE TV OVERHEAD
  - CATV --- CABLE TV UNDERGROUND
  - OE --- ELECTRIC OVERHEAD
  - BE --- ELECTRIC UNDERGROUND
  - FM --- FORCE MAIN
  - GAS --- GAS
  - IRR --- IRRIGATION
  - SAN --- SANITARY SEWER
  - SSM --- STORM SEWER
  - T --- TELEPHONE UNDERGROUND
  - TL --- TRAFFIC LOOP
  - WL --- WATER LATERAL
  - WM --- WATER MAIN
  - FH --- EXISTING FIRE HYDRANT
  - X1 --- 1" SINGLE WATER METER PROP. 1" SERVICE LINE
  - X2 --- 2" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X3 --- 1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X4 --- 2" X 2" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
  - X5 --- 2 - 1" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
- PROPOSED**
- WM --- WATER MAIN
  - X6 --- GATE VALVE
  - X7 --- PROP. FIRE HYDRANT
  - X8 --- TAPPING SLEEVE
  - X9 --- WATER SERVICE
  - X10 --- SOLID SLEEVE
  - X11 --- TEE
  - X12 --- WYE
  - X13 --- PLUG
  - X14 --- PLUG W/ Z' BLOW OFF VALVE
  - X15 --- TEST HOLE
  - X16 --- SAMPLING POINT

**NOTES**

1. NO VALVES IN CURB, SIDEWALK, OR DRIVEWAYS
2. ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-555 OF THE FAC AS APPLICABLE.
3. RESTORE EXISTING VALVES AND MANHOLES AT PROPOSED CONNECTIONS TO CITY STANDARDS
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5. REPLACE EXISTING SERVICE LINES IN KIND. CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF ANY FIELD CHANGES.

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MATCH LINE - SEE SHEET C-19

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REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY: H.A.  
 DRAWN BY: H.A.  
 CHECKED BY: S.J.R.  
 SCALE: 1"=20'

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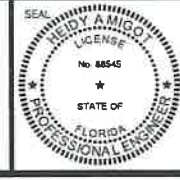


**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**

AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

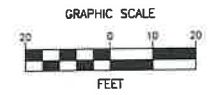
SHEET TITLE

**WATER SERVICE LINE PLAN**



DATE: 01/28/2021  
 DRAWING NO: C-20





**LEGEND**

**EXISTING**

- GCATV --- CABLE TV OVERHEAD
- CATV --- CABLE TV UNDERGROUND
- OE --- ELECTRIC OVERHEAD
- BE --- ELECTRIC UNDERGROUND
- FM --- FORCE MAIN
- GAS --- GAS
- IRR --- IRRIGATION
- SAN --- SANITARY SEWER
- SFM --- STORM SEWER
- T --- TELEPHONE UNDERGROUND
- TRL --- TRAFFIC LOOP
- WL --- WATER LATERAL
- WM --- WATER MAIN
- XH --- EXISTING FIRE HYDRANT
- X1 --- 1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
- X2 --- 2" SINGLE WATER METER PROP. 1.5" SERVICE LINE
- X3 --- 1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
- X4 --- 2 - 1" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
- X5 --- 2 - 1" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE

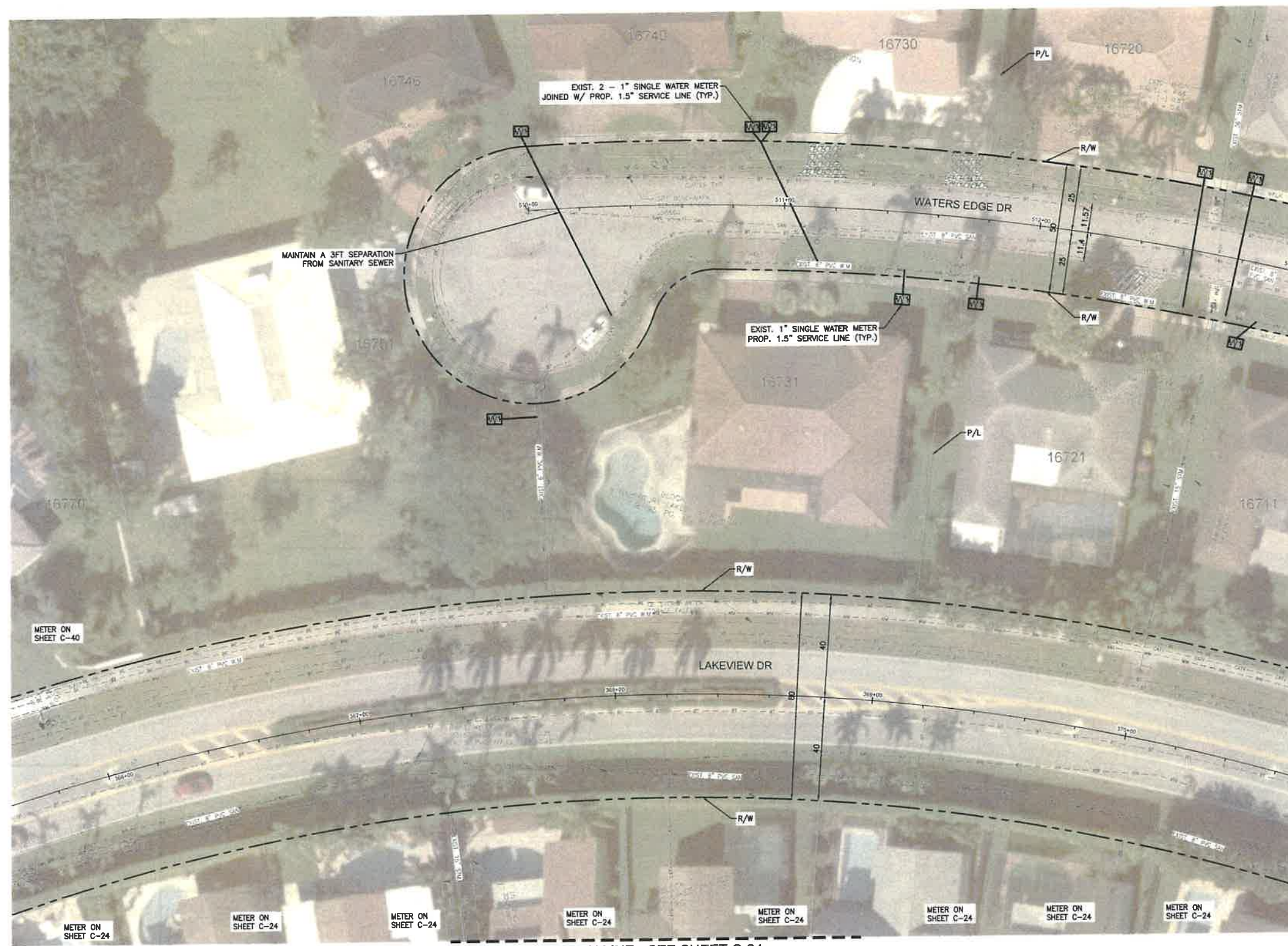
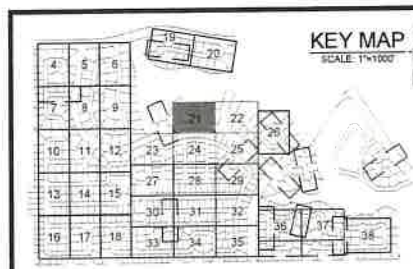
**PROPOSED**

- WM --- WATER MAIN
- GV --- GATE VALVE
- PH --- PROP. FIRE HYDRANT
- TS --- TAPPING SLEEVE
- WS --- WATER SERVICE
- SS --- SOLID SLEEVE
- TEE --- TEE
- WYE --- WYE
- PLUG --- PLUG
- PWOV --- PLUG W/ 2" BLOW OFF VALVE
- TH --- TEST HOLE
- SP --- SAMPLING POINT

**NOTES**

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MATCH LINE - SEE SHEET C-22

MATCH LINE - SEE SHEET C-24

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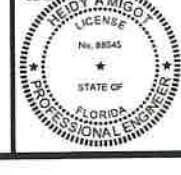


**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**

AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE

**WATER SERVICE LINE PLAN**

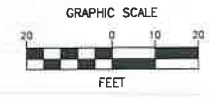


DATE: 01/28/2021  
 DRAWING NO. C-21



PLOT DATE: 1/28/2021 4:41 PM

BCTED REFERENCE No. 201214060



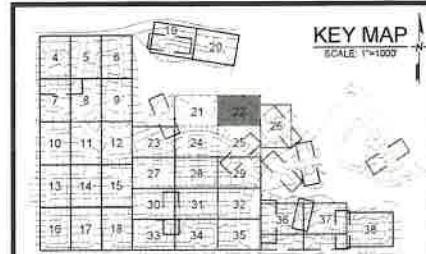
**LEGEND**

- EXISTING**
- GCATV --- CABLE TV OVERHEAD
  - CATV --- CABLE TV UNDERGROUND
  - OE --- ELECTRIC OVERHEAD
  - E --- ELECTRIC UNDERGROUND
  - FM --- FORCE MAIN
  - GAS --- GAS
  - IRR --- IRRIGATION
  - SAN --- SANITARY SEWER
  - STW --- STORM SEWER
  - TU --- TELEPHONE UNDERGROUND
  - TL --- TRAFFIC LOOP
  - WL --- WATER LATERAL
  - WM --- WATER MAIN
  - FH --- EXISTING FIRE HYDRANT
  - X1 --- 1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X2 --- 2" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X3 --- 3" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X4 --- 4" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X5 --- 5" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X6 --- 6" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X7 --- 7" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X8 --- 8" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X9 --- 9" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X10 --- 10" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X11 --- 11" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X12 --- 12" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X13 --- 13" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X14 --- 14" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X15 --- 15" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X16 --- 16" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X17 --- 17" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X18 --- 18" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X19 --- 19" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X20 --- 20" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X21 --- 21" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X22 --- 22" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X23 --- 23" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X24 --- 24" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X25 --- 25" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X26 --- 26" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X27 --- 27" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X28 --- 28" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X29 --- 29" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X30 --- 30" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X31 --- 31" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X32 --- 32" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X33 --- 33" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X34 --- 34" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X35 --- 35" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X36 --- 36" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X37 --- 37" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X38 --- 38" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X39 --- 39" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X40 --- 40" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X41 --- 41" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X42 --- 42" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X43 --- 43" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X44 --- 44" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X45 --- 45" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X46 --- 46" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X47 --- 47" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X48 --- 48" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X49 --- 49" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X50 --- 50" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X51 --- 51" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X52 --- 52" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X53 --- 53" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X54 --- 54" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X55 --- 55" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X56 --- 56" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X57 --- 57" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X58 --- 58" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X59 --- 59" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X60 --- 60" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X61 --- 61" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X62 --- 62" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X63 --- 63" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X64 --- 64" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X65 --- 65" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X66 --- 66" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X67 --- 67" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X68 --- 68" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X69 --- 69" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X70 --- 70" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X71 --- 71" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X72 --- 72" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X73 --- 73" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X74 --- 74" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X75 --- 75" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X76 --- 76" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X77 --- 77" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X78 --- 78" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X79 --- 79" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X80 --- 80" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X81 --- 81" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X82 --- 82" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X83 --- 83" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X84 --- 84" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X85 --- 85" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X86 --- 86" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X87 --- 87" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X88 --- 88" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X89 --- 89" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X90 --- 90" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X91 --- 91" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X92 --- 92" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X93 --- 93" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X94 --- 94" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X95 --- 95" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X96 --- 96" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X97 --- 97" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X98 --- 98" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X99 --- 99" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X100 --- 100" SINGLE WATER METER PROP. 1.5" SERVICE LINE
- PROPOSED**
- WM --- WATER MAIN
  - GV --- GATE VALVE
  - FH --- PROP. FIRE HYDRANT
  - TS --- TAPPING SLEEVE
  - WS --- WATER SERVICE
  - SS --- SOLID SLEEVE
  - TEE --- TEE
  - WVE --- WVE
  - PLUG --- PLUG
  - PWB --- PLUG W/ 2" BLOW OFF VALVE
  - TH --- TEST HOLE
  - SP --- SAMPLING POINT

**NOTES**

1. NO VALVES IN CURB, SIDEWALK, OR DRIVEWAYS.
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LEAVE BLANK - FOR CITY USE ONLY



REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY: H.A.  
 DRAWN BY: H.A.  
 CHECKED BY: S.J.R.  
 SCALE: 1"=20'

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**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**

AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE

**WATER SERVICE LINE PLAN**

DATE: 01/28/2021

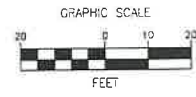
DRAWING NO: C-22

SEAL: HEIDI AMIGOT, LICENSE No. 88545, STATE OF FLORIDA, PROFESSIONAL ENGINEER

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FILE LOCATION: H:\PROJECTS\017121.DT\_BONAVENTURE\_WA\017121.DT\_016-C22-WATERING





**LEGEND**

**EXISTING**

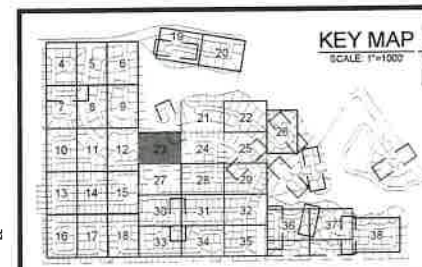
- CATV --- CABLE TV OVERHEAD
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- OE --- ELECTRIC OVERHEAD
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- FM --- FORCE MAIN
- GAS --- GAS
- IRR --- IRRIGATION
- SAN --- SANITARY SEWER
- STW --- STORM SEWER
- BT --- TELEPHONE UNDERGROUND
- TLF --- TRAFFIC LOOP
- WL --- WATER LATERAL
- WM --- WATER MAIN
- FH --- EXISTING FIRE HYDRANT
- X --- SINGLE WATER METER PROP. 1" SERVICE LINE
- X --- DOUBLE WATER METER PROP. 1.5" SERVICE LINE
- WM --- 1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
- WM --- 2 - 1" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
- WM --- 2 - 1" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE

**PROPOSED**

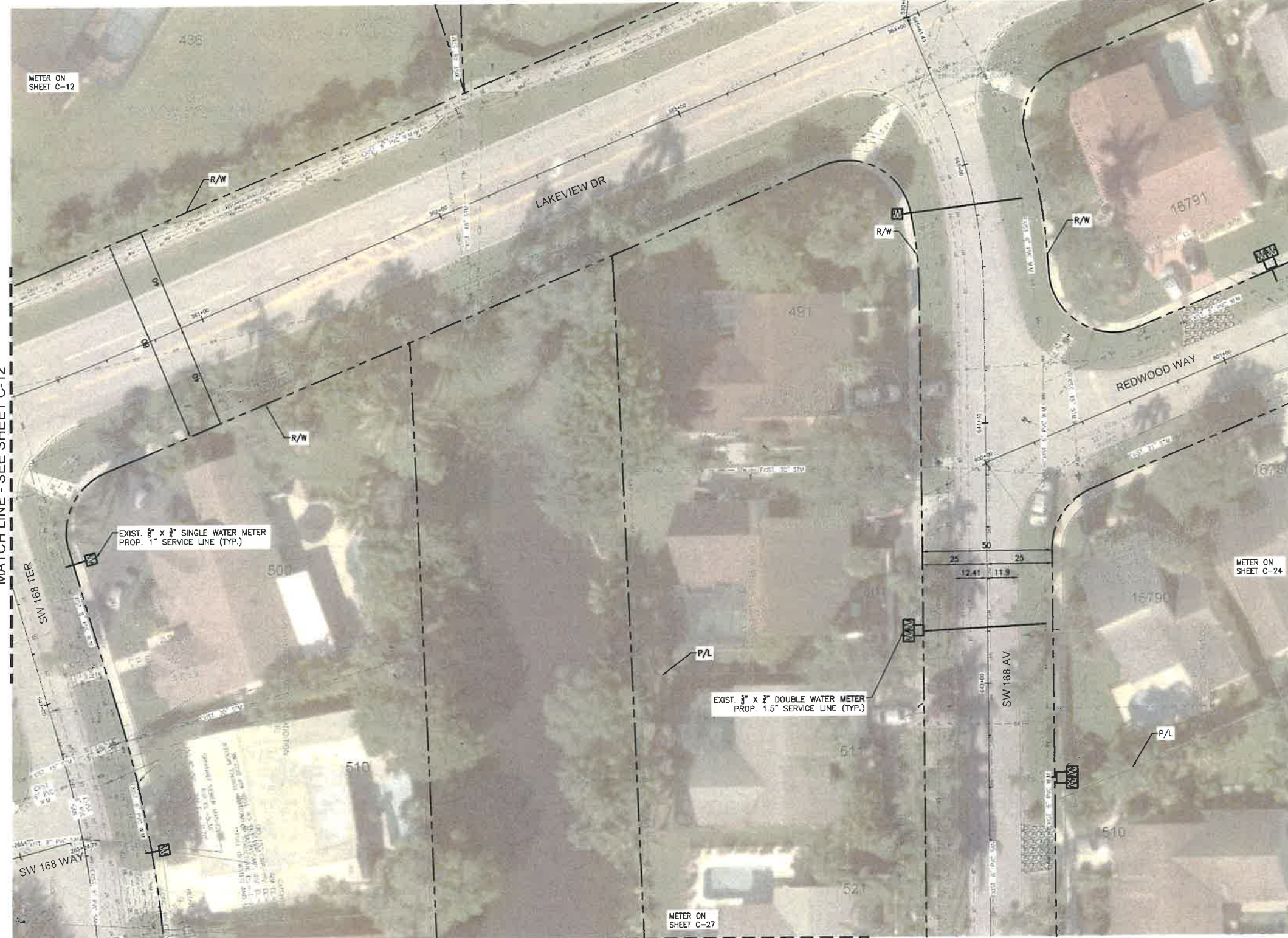
- WM --- WATER MAIN
- GV --- GATE VALVE
- FH --- PROP. FIRE HYDRANT
- TS --- TAPPING SLEEVE
- WS --- WATER SERVICE
- SS --- SOLID SLEEVE
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EXIST. 1/2" x 1/2" DOUBLE WATER METER PROP. 1.5" SERVICE LINE (TYP.)

EXIST. 1/2" x 1/2" SINGLE WATER METER PROP. 1" SERVICE LINE (TYP.)

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REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY: HA  
 DRAWN BY: HA  
 CHECKED BY: S.J.R.  
 SCALE: 1"=20'

**bcc engineering**

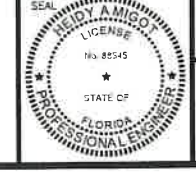
6401 SW 87th Ave, Ste. 200  
 Miami, Florida 33173  
 Tel: 305.670.2350 Fax: 305.670.2351  
 www.bcceng.com  
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**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**

AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE: **WATER SERVICE LINE PLAN**



DATE: 01/28/2021  
 DRAWING NO.: C-23



PLOT DATE: 1/28/2021 4:43 PM

FILE LOCATION: H:\PROJECTS\071121\07\_BONAVENTURE\_WA\CAD\071121\_07\_C16-C27\_WATER.DWG

MATCH LINE - SEE SHEET C-21

BCTED REFERENCE No. 201214060



**LEGEND**

**EXISTING**

- CTV --- CABLE TV OVERHEAD
- CTV --- CABLE TV UNDERGROUND
- OE --- ELECTRIC OVERHEAD
- EU --- ELECTRIC UNDERGROUND
- FM --- FORCE MAIN
- GAS --- GAS
- IRR --- IRRIGATION
- SAN --- SANITARY SEWER
- SS --- STORM SEWER
- TEL --- TELEPHONE UNDERGROUND
- TL --- TRAFFIC LOOP
- WL --- WATER LATERAL
- WM --- WATER MAIN
- WH --- EXISTING FIRE HYDRANT
- W1 --- 1" X 3/4" SINGLE WATER METER PROP. 1" SERVICE LINE
- W2 --- 1" X 1/2" DOUBLE WATER METER PROP. 1.5" SERVICE LINE
- W3 --- 1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
- W4 --- 2" X 1 1/2" SINGLE WATER METER JOINED W PROP. 1.5" SERVICE LINE
- W5 --- 2 - 1" SINGLE WATER METER JOINED W PROP. 1.5" SERVICE LINE

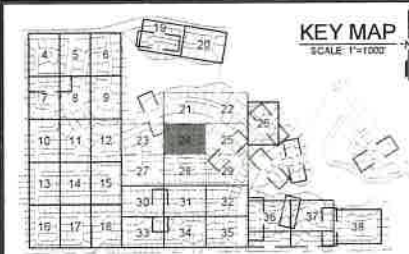
**PROPOSED**

- WM --- WATER MAIN
- GV --- GATE VALVE
- FPH --- PROP. FIRE HYDRANT
- TS --- TAPPING SLEEVE
- WS --- WATER SERVICE
- SS --- SOLID SLEEVE
- TEE --- TEE
- WYE --- WYE
- PLUG --- PLUG
- PWS --- PLUG W/ 2" BLOW OFF VALVE
- TH --- TEST HOLE
- SP --- SAMPLING POINT

**NOTES**

1. NO VALVES IN CURB, SIDEWALK, OR DRIVEWAYS.
2. ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-555 OF THE FAC AS APPLICABLE.
3. RESTORE EXISTING VALVES AND MANHOLES AT PROPOSED CONNECTIONS TO CITY STANDARDS.
4. CITY OF SUNRISE DETAILS AND SPECIFICATIONS WILL GOVERN FOR WATER DISTRIBUTION INSTALLATION.
5. REPLACE EXISTING SERVICE LINES IN KIND. CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF ANY FIELD CHANGES.

GRAPHIC SCALE  
0 10 20  
FEET



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REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY: H.A.  
DRAWN BY: H.A.  
CHECKED BY: S.J.R.  
SCALE: 1"=20'

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Miami, Florida 33173  
Tel: 305.670.2350 Fax: 305.670.2351  
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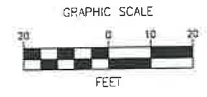
**CITY OF SUNRISE**  
FLORIDA

**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**  
AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**WATER SERVICE LINE PLAN**

DATE: 01/28/2021  
DRAWING NO: C-24





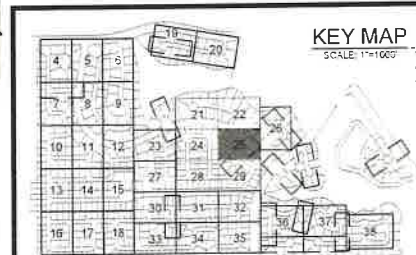
**LEGEND**

EXISTING	
	CABLE TV OVERHEAD
	CABLE TV UNDERGROUND
	ELECTRIC OVERHEAD
	ELECTRIC UNDERGROUND
	FORCE MAIN
	GAS
	IRRIGATION
	SANITARY SEWER
	STORM SEWER
	TELEPHONE UNDERGROUND
	TRAFFIC LOOP
	WATER LATERAL
	WATER MAIN
	EXISTING FIRE HYDRANT
	1/2" X 3/4" SINGLE WATER METER PROP. 1.5" SERVICE LINE
	3/4" X 1" DOUBLE WATER METER PROP. 1.5" SERVICE LINE
	1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
	2 - 1/2" X 3/4" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
	2 - 1" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
PROPOSED	
	WATER MAIN
	GATE VALVE
	PROP. FIRE HYDRANT
	TAPPING SLEEVE
	WATER SERVICE
	SOLID SLEEVE
	TEE
	WYE
	PLUG
	PLUG W/ 2" BLOW OFF VALVE
	TEST HOLE
	SAMPLING POINT

**NOTES**

- NO VALVES IN CURB, SIDEWALK, OR DRIVEWAYS.
- ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-555 OF THE FAC AS APPLICABLE.
- RESTORE EXISTING VALVES AND MANHOLES AT PROPOSED CONNECTIONS TO CITY STANDARDS.
- CITY OF SUNRISE DETAILS AND SPECIFICATIONS WILL GOVERN FOR WATER DISTRIBUTION INSTALLATION.
- REPLACE EXISTING SERVICE LINES IN KIND. CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF ANY FIELD CHANGES.

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REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY:	H.A.
DRAWN BY:	H.A.
CHECKED BY:	S.J.R.
SCALE:	1"=20'

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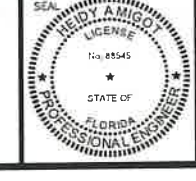


**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**

AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE

**WATER SERVICE LINE PLAN**



DATE: 01/28/2021

DRAWING NO. C-25



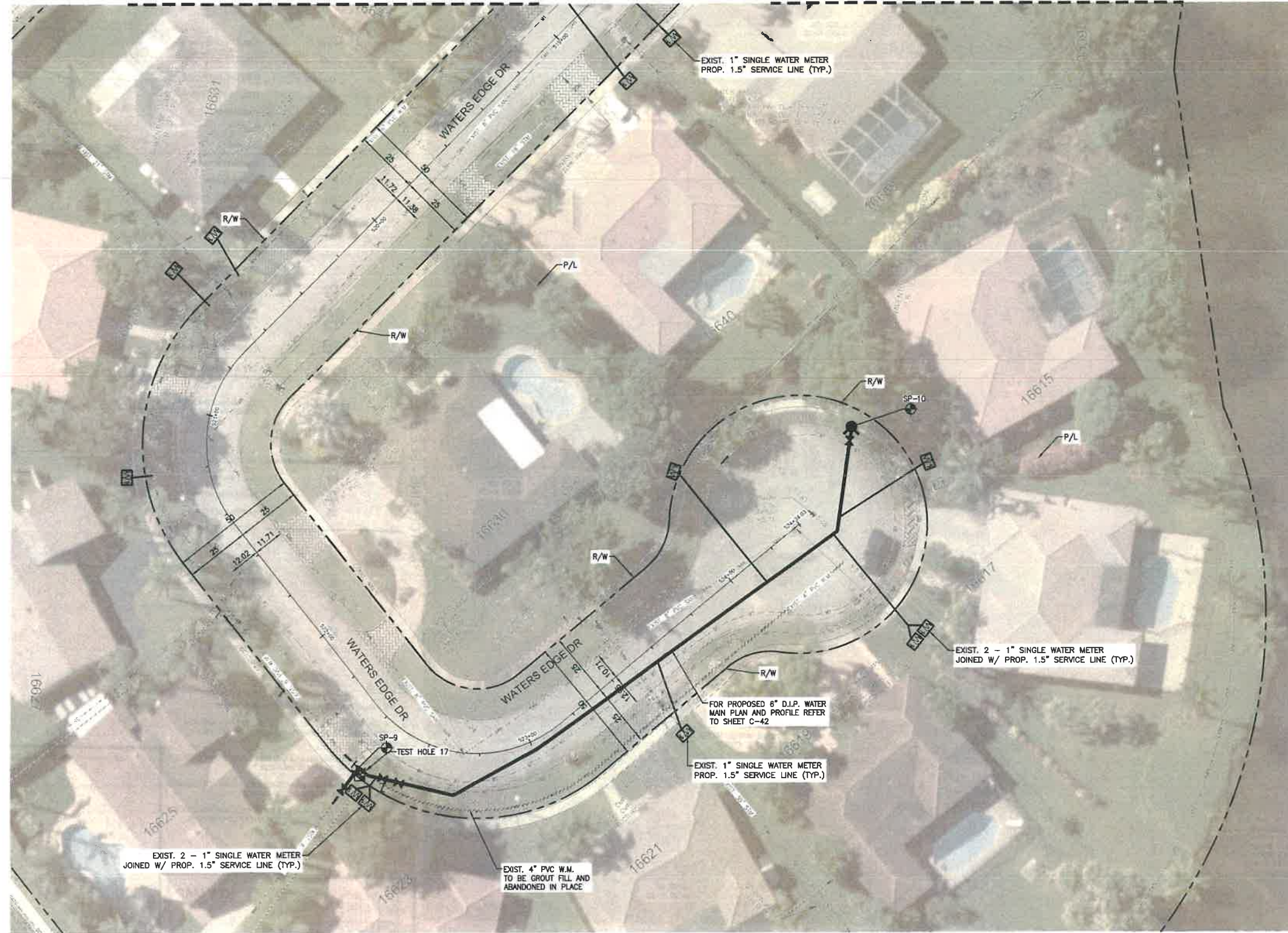
PLOT DATE: 1/28/2021 4:45 PM

FILE LOCATION: H:\PROJECTS\017121.07 BONNAVENTURE WATER\017121.07\_C16-C27\_WSR.DWG

MATCH LINE - SEE SHEET C-25

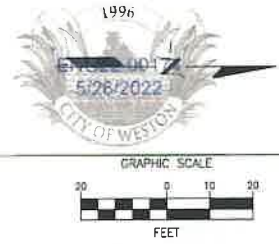
MATCH LINE - SEE SHEET C-22

BCTED REFERENCE No. 201214060



**LEGEND**

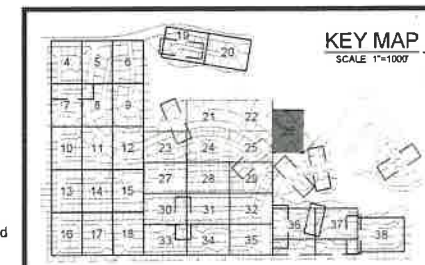
- EXISTING**
- CTV --- CABLE TV OVERHEAD
  - CTV --- CABLE TV UNDERGROUND
  - OE --- ELECTRIC OVERHEAD
  - EU --- ELECTRIC UNDERGROUND
  - FM --- FORCE MAIN
  - GAS --- GAS
  - I --- IRRIGATION
  - SAN --- SANITARY SEWER
  - STW --- STORM SEWER
  - T --- TELEPHONE UNDERGROUND
  - TL --- TRAFFIC LOOP
  - WL --- WATER LATERAL
  - WM --- WATER MAIN
  - FH --- EXISTING FIRE HYDRANT
  - X --- EXIST. 1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X --- EXIST. 2" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X --- EXIST. 1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - X --- EXIST. 2" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
  - X --- EXIST. 2" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
- PROPOSED**
- WM --- WATER MAIN
  - GV --- GATE VALVE
  - FH --- PROP. FIRE HYDRANT
  - TS --- TAPPING SLEEVE
  - WS --- WATER SERVICE
  - SS --- SOLID SLEEVE
  - TEE --- TEE
  - WYE --- WYE
  - PLUG --- PLUG
  - PWS --- PLUG W/ 2" BLOW OFF VALVE
  - TH --- TEST HOLE
  - SP --- SAMPLING POINT



**NOTES**

1. NO VALVES IN CURB, SIDEWALK, OR DRIVEWAYS.
2. ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-555 OF THE FAC AS APPLICABLE.
3. RESTORE EXISTING VALVES AND MANHOLES AT PROPOSED CONNECTIONS TO CITY STANDARDS.
4. CITY OF SUNRISE DETAILS AND SPECIFICATIONS WILL GOVERN FOR WATER DISTRIBUTION INSTALLATION.
5. REPLACE EXISTING SERVICE LINES IN KIND. CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF ANY FIELD CHANGES.

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REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY: HA  
 DRAWN BY: HA  
 CHECKED BY: S.J.R.  
 SCALE: 1"=20'

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 Tel: 305.670.2350 Fax: 305.670.2351  
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**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**

AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE

**WATER SERVICE LINE PLAN**

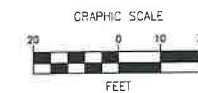
DATE: 01/28/2021

DRAWING NO.: C-26



MATCH LINE - SEE SHEET C-23

BCTED REFERENCE No. 201214060



**LEGEND**

**EXISTING**

- CABLE TV OVERHEAD
- CABLE TV UNDERGROUND
- OE ELECTRIC OVERHEAD
- EUE ELECTRIC UNDERGROUND
- FM FORCE MAIN
- GAS
- IRR IRRIGATION
- SAN SANITARY SEWER
- STM STORM SEWER
- TU TELEPHONE UNDERGROUND
- TL TRAFFIC LOOP
- WL WATER LATERAL
- WM WATER MAIN
- EXH EXISTING FIRE HYDRANT
- 1" x 3/4" SINGLE WATER METER PROP. 1" SERVICE LINE
- 1/2" x 3/4" DOUBLE WATER METER PROP. 1.5" SERVICE LINE
- 1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
- 2- 1/2" x 3/4" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
- 2- 1" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE

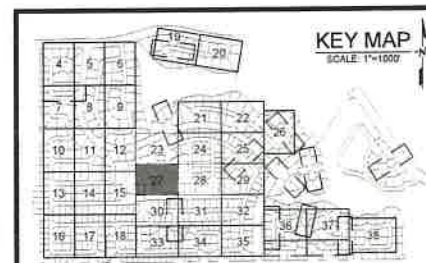
**PROPOSED**

- WM WATER MAIN
- GV GATE VALVE
- PFH PROP. FIRE HYDRANT
- TS TAPPING SLEEVE
- WS WATER SERVICE
- SS SOLID SLEEVE
- TEE
- WYE
- PLUG
- PWOV 2" BLOW OFF VALVE
- TH TEST HOLE
- SP SAMPLING POINT

**NOTES**

1. NO VALVES IN CURB, SIDEWALK, OR DRIVEWAYS.
2. ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 52-555 OF THE FAC AS APPLICABLE.
3. RESTORE EXISTING VALVES AND MANHOLES AT PROPOSED CONNECTIONS TO CITY STANDARDS.
4. CITY OF SUNRISE DETAILS AND SPECIFICATIONS WILL GOVERN FOR WATER DISTRIBUTION INSTALLATION.
5. REPLACE EXISTING SERVICE LINES IN KIND, CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF ANY FIELD CHANGES.

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MATCH LINE - SEE SHEET C-30

FILE LOCATION: H:\PROJECTS\0171231-07\_BONAVENTURE\_WW\CAD\0171231-07\_C15-C27\_WTR.DWG  
 PLOT DATE: 1/28/2021 4:48 PM

REVISIONS		
NO.	DATE	DESCRIPTION

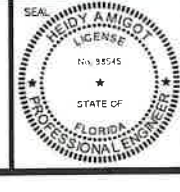
DESIGNED BY: H.A.  
 DRAWN BY: H.A.  
 CHECKED BY: S.J.R.  
 SCALE: 1"=20'

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 Miami, Florida 33173  
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BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS

AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**WATER SERVICE LINE PLAN**

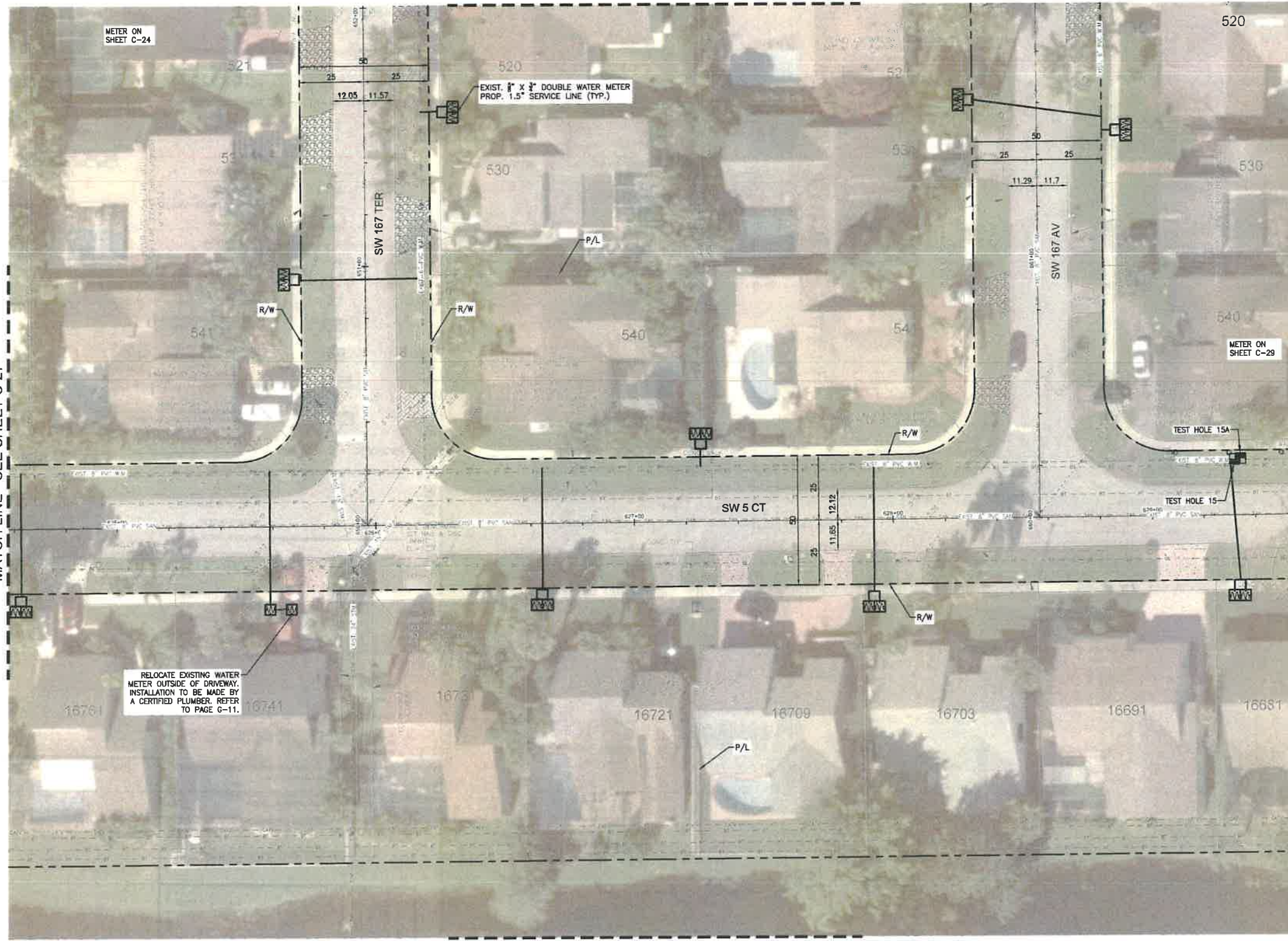


DATE: 01/28/2021  
 DRAWING NO.: C-27



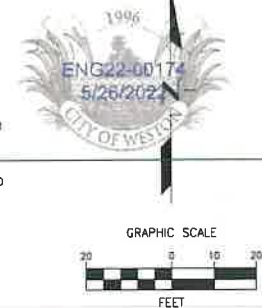
MATCH LINE - SEE SHEET C-24

BCTED REFERENCE No. 201214060



**LEGEND**

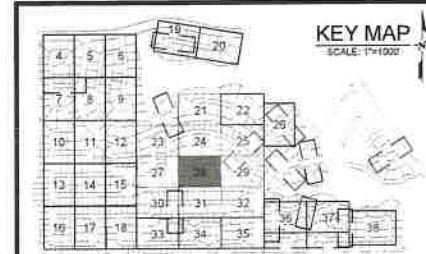
- EXISTING**
- CABLE TV OVERHEAD
  - CABLE TV UNDERGROUND
  - ELEC OVERHEAD
  - ELEC UNDERGROUND
  - FORCE MAIN
  - GAS
  - IRRIGATION
  - SANITARY SEWER
  - STORM SEWER
  - TELEPHONE UNDERGROUND
  - TRAFFIC LOOP
  - WATER LATERAL
  - WATER MAIN
  - EXISTING FIRE HYDRANT
  - 1" X 1/2" SINGLE WATER METER PROP. 1" SERVICE LINE
  - 1" X 1/2" DOUBLE WATER METER PROP. 1.5" SERVICE LINE
  - 1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - 2" X 1/2" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
  - 2 - 1" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
- PROPOSED**
- WATER MAIN
  - GATE VALVE
  - PROP. FIRE HYDRANT
  - TAPPING SLEEVE
  - WATER SERVICE
  - SOLID SLEEVE
  - TEE
  - WYE
  - PLUG
  - PLUG W/ 2" BLOW OFF VALVE
  - TEST HOLE
  - SAMPLING POINT



**NOTES**

1. NO VALVES IN CURB, SIDEWALK, OR DRIVEWAYS.
2. ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-555 OF THE FAC AS APPLICABLE.
3. RESTORE EXISTING VALVES AND MANHOLES AT PROPOSED CONNECTIONS TO CITY STANDARDS.
4. CITY OF SUNRISE DETAILS AND SPECIFICATIONS WILL GOVERN FOR WATER DISTRIBUTION INSTALLATION
5. REPLACE EXISTING SERVICE LINES IN KIND. CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF ANY FIELD CHANGES.

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NO.	DATE	DESCRIPTION

DESIGNED BY: H.A.  
 DRAWN BY: H.A.  
 CHECKED BY: S.J.R.  
 SCALE: 1"=20'

**bcc engineering**

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**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**

AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

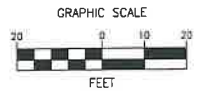
SHEET TITLE

**WATER SERVICE LINE PLAN**

SEAL: HEIDI A. MIGOT  
 LICENSE No. 88545  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER

DATE: 01/28/2021  
 DRAWING NO: C-28





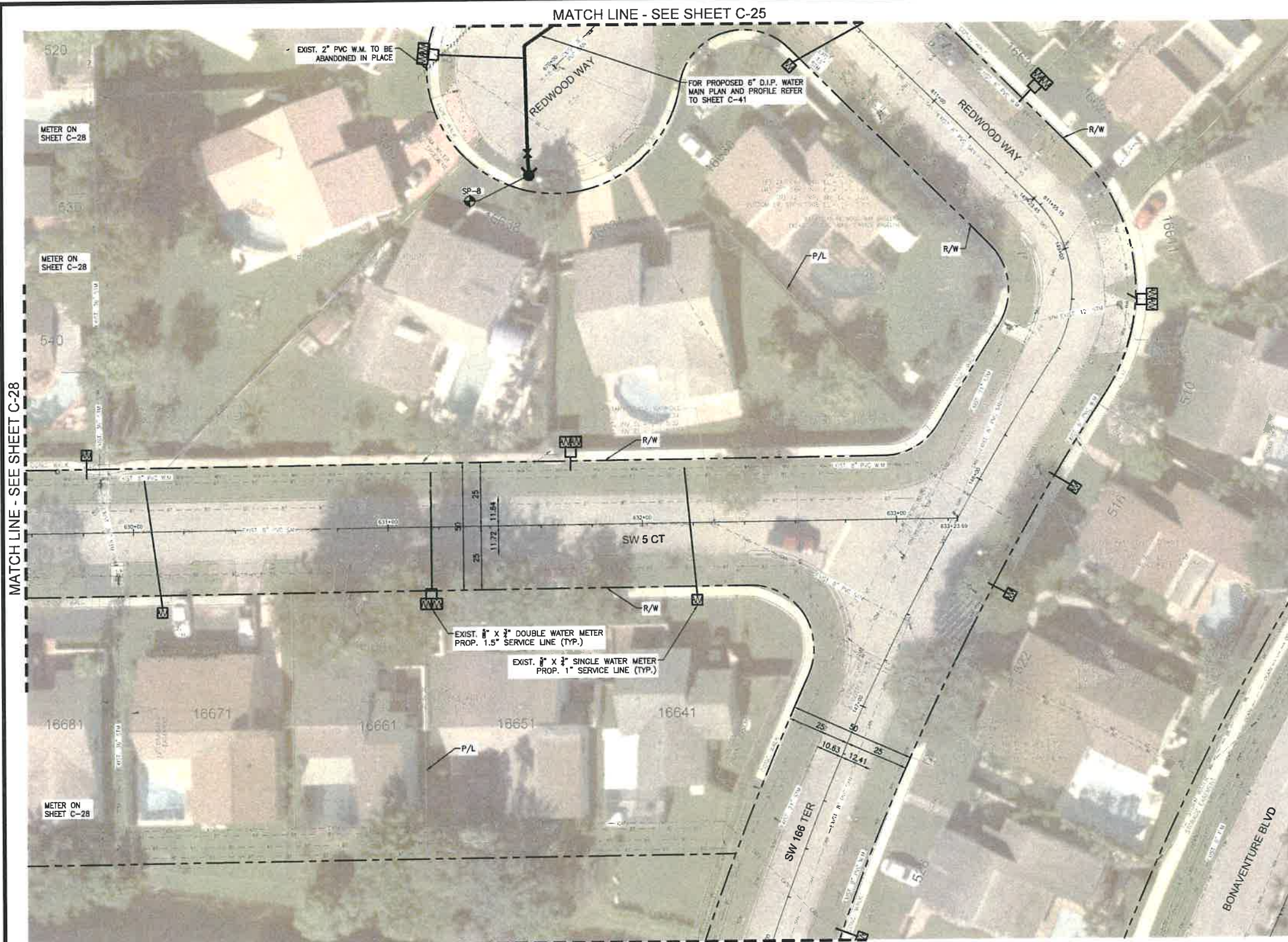
**LEGEND**

- EXISTING**
- CATV --- CABLE TV OVERHEAD
  - CATV --- CABLE TV UNDERGROUND
  - OE --- ELECTRIC OVERHEAD
  - EE --- ELECTRIC UNDERGROUND
  - FM --- FORCE MAIN
  - GAS --- GAS
  - IRR --- IRRIGATION
  - SAN --- SANITARY SEWER
  - STN --- STORM SEWER
  - TEL --- TELEPHONE UNDERGROUND
  - TLF --- TRAFFIC LOOP
  - WTL --- WATER LATERAL
  - WM --- WATER MAIN
  - WH --- EXISTING FIRE HYDRANT
  - WMS1 --- 1/2" x 3/4" SINGLE WATER METER PROP. 1" SERVICE LINE
  - WMS2 --- 1/2" x 3/4" DOUBLE WATER METER PROP. 1.5" SERVICE LINE
  - WMS3 --- 1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - WMS4 --- 2 - 1/2" x 3/4" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
  - WMS5 --- 2 - 1" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE

- PROPOSED**
- WM --- WATER MAIN
  - GV --- GATE VALVE
  - FWH --- PROP. FIRE HYDRANT
  - TS --- TAPPING SLEEVE
  - WS --- WATER SERVICE
  - SS --- SOLID SLEEVE
  - TEE --- TEE
  - WYE --- WYE
  - PLUG --- PLUG
  - PWS --- PLUG W/ 2" BLOW OFF VALVE
  - TH --- TEST HOLE
  - SP --- SAMPLING POINT

**NOTES**

1. NO VALVES IN CURB, SIDEWALK, OR DRIVEWAYS.
2. ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-555 OF THE FAC AS APPLICABLE.
3. RESTORE EXISTING VALVES AND MANHOLES AT PROPOSED CONNECTIONS TO CITY STANDARDS.
4. CITY OF SUNRISE DETAILS AND SPECIFICATIONS WILL GOVERN FOR WATER DISTRIBUTION INSTALLATION.
5. REPLACE EXISTING SERVICE LINES IN KIND. CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF ANY FIELD CHANGES.



MATCH LINE - SEE SHEET C-28

MATCH LINE - SEE SHEET C-32

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 DRAWN BY: H.A.  
 CHECKED BY: S.J.R.  
 SCALE: 1"=20'

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 Certificate of Authorization No. 7184

**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**  
 AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**WATER SERVICE LINE PLAN**

DATE: 01/28/2021  
 DRAWING NO: C-29

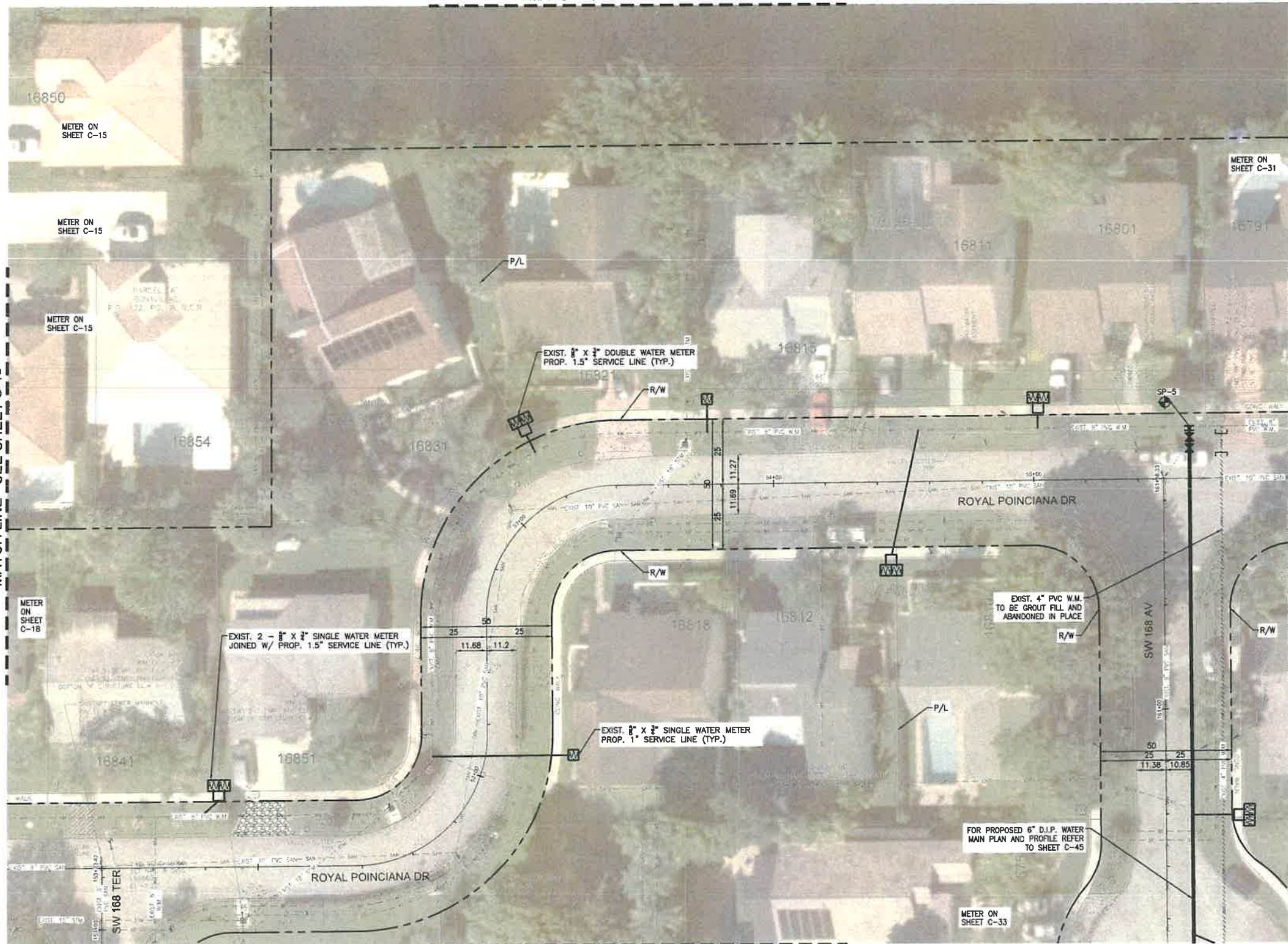


PLOT DATE: 1/28/2021 4:51 PM

FILE LOCATION: H:\PROJECTS\0171231 07 BONAVENTURE WVA\CAD\0171231\_07\_C28-C38\_WSTR.DWG

MATCH LINE - SEE SHEET C-27

BCTD REFERENCE No. 201214060



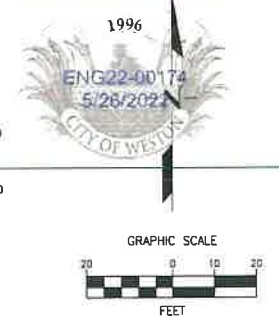
**LEGEND**

**EXISTING**

- OCATV--- CABLE TV OVERHEAD
- CATV--- CABLE TV UNDERGROUND
- GE--- ELECTRIC OVERHEAD
- E--- ELECTRIC UNDERGROUND
- FM--- FORCE MAIN
- GAS--- GAS
- IRR--- IRRIGATION
- SAY--- SANITARY SEWER
- SSW--- STORM SEWER
- T--- TELEPHONE UNDERGROUND
- TL--- TRAFFIC LOOP
- WL--- WATER LATERAL
- WM--- WATER MAIN
- WFH--- EXISTING FIRE HYDRANT
- W1--- 1/2" SINGLE WATER METER PROP. 1" SERVICE LINE
- W2--- 1/2" DOUBLE WATER METER PROP. 1.5" SERVICE LINE
- W3--- 1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
- W4--- 2-1/2" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
- W5--- 2-1" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE

**PROPOSED**

- WM--- WATER MAIN
- GV--- GATE VALVE
- PFH--- PROP. FIRE HYDRANT
- TS--- TAPPING SLEEVE
- WS--- WATER SERVICE
- SS--- SOLID SLEEVE
- TEE--- TEE
- WYE--- WYE
- PLUG--- PLUG
- PW2B--- PLUG W/ 2" BLOW OFF VALVE
- TH--- TEST HOLE
- SP--- SAMPLING POINT



- NOTES**
- NO VALVES IN CURB, SIDEWALK, OR DRIVEWAYS.
  - ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-555 OF THE FAC AS APPLICABLE.
  - RESTORE EXISTING VALVES AND MANHOLES AT PROPOSED CONNECTIONS TO CITY STANDARDS.
  - CITY OF SUNRISE DETAILS AND SPECIFICATIONS WILL GOVERN FOR WATER DISTRIBUTION INSTALLATION.
  - REPLACE EXISTING SERVICE LINES IN KIND. CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF ANY FIELD CHANGES.



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REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY: H.A.  
 DRAWN BY: H.A.  
 CHECKED BY: S.J.R.  
 SCALE: 1"=20'

**bcc engineering**

6401 SW 87th Ave, Ste. 200  
 Miami, Florida 33173  
 Tel: 305.670.2350 Fax: 305.670.2351  
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**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**

AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

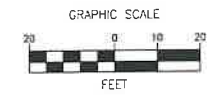
SHEET TITLE

**WATER SERVICE LINE PLAN**

DATE: 01/28/2021

DRAWING NO: C-30

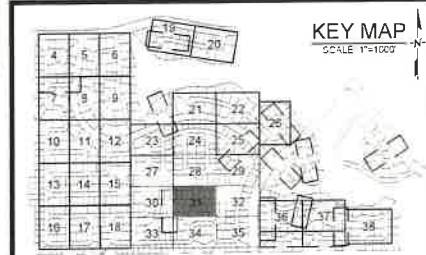




**LEGEND**

EXISTING	
	CABLE TV OVERHEAD
	CABLE TV UNDERGROUND
	ELECTRIC OVERHEAD
	ELECTRIC UNDERGROUND
	FORCE MAIN
	GAS
	IRRIGATION
	SANITARY SEWER
	STORM SEWER
	TELEPHONE UNDERGROUND
	TRAFFIC LOOP
	WATER LATERAL
	WATER MAIN
	EXISTING FIRE HYDRANT
	1/2" x 1/2" SINGLE WATER METER PROP. 1" SERVICE LINE
	1/2" x 1/2" DOUBLE WATER METER PROP. 1.5" SERVICE LINE
	1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
	2 - 1/2" x 1/2" SINGLE WATER METER JOINED W PROP. 1.5" SERVICE LINE
	2 - 1" SINGLE WATER METER JOINED W PROP. 1.5" SERVICE LINE
PROPOSED	
	WATER MAIN
	GATE VALVE
	PROP. FIRE HYDRANT
	TAPPING SLEEVE
	WATER SERVICE
	SOLID SLEEVE
	TEE
	WYE
	PLUG
	PLUG W 2" BLOW OFF VALVE
	TEST HOLE
	SAMPLING POINT

- NOTES**
- NO VALVES IN CURB, SIDEWALK, OR DRIVEWAYS.
  - ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-555 OF THE FAC AS APPLICABLE.
  - RESTORE EXISTING VALVES AND MANHOLES AT PROPOSED CONNECTIONS TO CITY STANDARDS.
  - CITY OF SUNRISE DETAILS AND SPECIFICATIONS WILL GOVERN FOR WATER DISTRIBUTION INSTALLATION.
  - REPLACE EXISTING SERVICE LINES IN KIND. CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF ANY FIELD CHANGES.



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REVISIONS		
NO.	DATE	DESCRIPTION

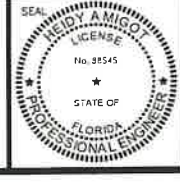
DESIGNED BY: H.A.  
 DRAWN BY: H.A.  
 CHECKED BY: S.J.R.  
 SCALE: 1"=20'

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**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**  
 AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**WATER SERVICE LINE PLAN**



DATE: 01/28/2021  
 DRAWING NO.: C-31

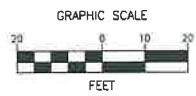


PLOT DATE: 1/28/2021 4:53 PM

FILE LOCATION: K:\PROJECTS\0171231\_07\_BONAVENTURE\WA\CAD\0171231\_07\_C28-C38\_WTR.DWG

MATCH LINE - SEE SHEET C-29

BCTED REFERENCE No. 201214060



**LEGEND**

**EXISTING**

- GCAV --- CABLE TV OVERHEAD
- CATV --- CABLE TV UNDERGROUND
- OE --- ELECTRIC OVERHEAD
- EF --- ELECTRIC UNDERGROUND
- FM --- FORCE MAIN
- GAS --- GAS
- IRR --- IRRIGATION
- SAN --- SANITARY SEWER
- STM --- STORM SEWER
- TU --- TELEPHONE UNDERGROUND
- TL --- TRAFFIC LOOP
- WL --- WATER LATERAL
- WM --- WATER MAIN

- EXISTING FIRE HYDRANT
- 1/2" SINGLE WATER METER PROP. 1" SERVICE LINE
- 1/2" DOUBLE WATER METER PROP. 1.5" SERVICE LINE
- 1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
- 2" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
- 2" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE

**PROPOSED**

- WATER MAIN
- GATE VALVE
- PROP. FIRE HYDRANT
- TAPPING SLEEVE
- WATER SERVICE
- SOLID SLEEVE
- TEE
- WYE
- PLUG
- PLUG W/ 2" BLOW OFF VALVE
- TEST HOLE
- SAMPLING POINT

**NOTES**

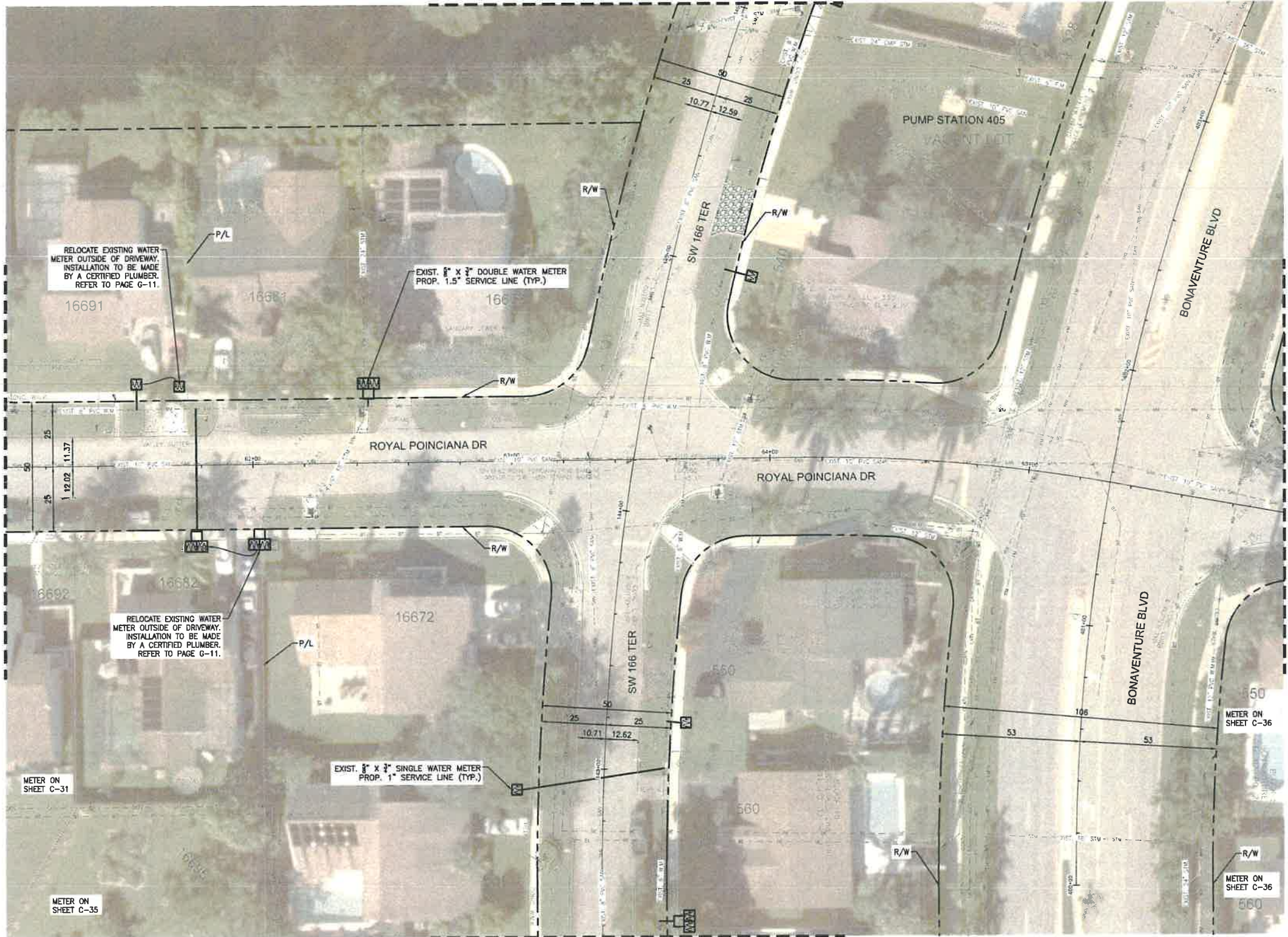
1. NO VALVES IN CURB, SIDEWALK, OR DRIVEWAYS.
2. ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-555 OF THE FAC AS APPLICABLE.
3. RESTORE EXISTING VALVES AND MANHOLES AT PROPOSED CONNECTIONS TO CITY STANDARDS.
4. CITY OF SUNRISE DETAILS AND SPECIFICATIONS WILL GOVERN FOR WATER DISTRIBUTION INSTALLATION.
5. REPLACE EXISTING SERVICE LINES IN KIND. CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF ANY FIELD CHANGES.



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MATCH LINE - SEE SHEET C-31

MATCH LINE - SEE SHEET C-36



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REVISIONS		
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 CHECKED BY: S.J.R.  
 SCALE: 1"=20'

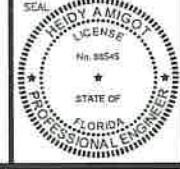


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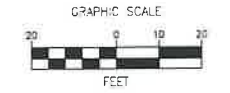
**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**  
 AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**WATER SERVICE LINE PLAN**



DATE: 01/28/2021  
 DRAWING NO.: C-32





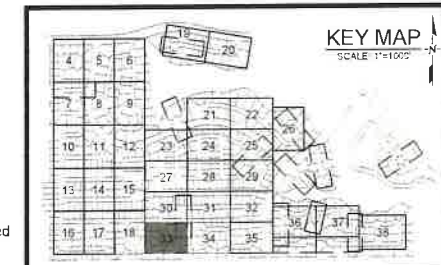
**LEGEND**

- EXISTING**
- CABLE TV OVERHEAD
  - CABLE TV UNDERGROUND
  - ELECTRIC OVERHEAD
  - ELECTRIC UNDERGROUND
  - FORCE MAIN
  - GAS
  - IRRIGATION
  - SANITARY SEWER
  - STORM SEWER
  - TELEPHONE UNDERGROUND
  - TRAFFIC LOOP
  - WATER LATERAL
  - WATER MAIN
  - EXISTING FIRE HYDRANT
  - 1/2" x 3/4" SINGLE WATER METER PROP. 1" SERVICE LINE
  - 3/4" x 1" DOUBLE WATER METER PROP. 1.5" SERVICE LINE
  - 1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
  - 2 - 1/2" x 3/4" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
  - 2 - 1" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE

- PROPOSED**
- WATER MAIN
  - GATE VALVE
  - PROP. FIRE HYDRANT
  - TAPPING SLEEVE
  - WATER SERVICE
  - SOLID SLEEVE
  - TEE
  - WYE
  - PLUG
  - PLUG W/ 2" BLOW OFF VALVE
  - TEST HOLE
  - SAMPLING POINT

**NOTES**

1. NO VALVES IN CURB, SIDEWALK, OR DRIVEWAYS.
2. ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 92-555 OF THE FAC AS APPLICABLE.
3. RESTORE EXISTING VALVES AND MANHOLES AT PROPOSED CONNECTIONS TO CITY STANDARDS.
4. CITY OF SUNRISE DETAILS AND SPECIFICATIONS WILL GOVERN FOR WATER DISTRIBUTION INSTALLATION.
5. REPLACE EXISTING SERVICE LINES IN KIND. CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF ANY FIELD CHANGES.



MATCH LINE - SEE SHEET C-18

MATCH LINE - SEE SHEET C-34

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REVISIONS		
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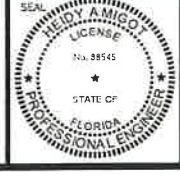


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**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**  
 AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**WATER SERVICE LINE PLAN**



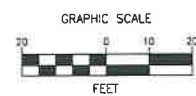
DATE: 01/28/2021  
 DRAWING NO.: C-33



PLOT DATE: 1/28/2021 4:55 PM

MATCH LINE - SEE SHEET C-31

BCTD REFERENCE No. 201214060



LEGEND

EXISTING

- C-CATV --- CABLE TV OVERHEAD
- CATV --- CABLE TV UNDERGROUND
- OE --- ELECTRIC OVERHEAD
- E --- ELECTRIC UNDERGROUND
- FM --- FORCE MAIN
- GAS --- GAS
- IRR --- IRRIGATION
- SAN --- SANITARY SEWER
- S-W --- STORM SEWER
- T --- TELEPHONE UNDERGROUND
- T-L --- TRAFFIC LOOP
- W-L --- WATER LATERAL
- WM --- WATER MAIN
- F --- EXISTING FIRE HYDRANT
- M --- 1" X 1/2" SINGLE WATER METER PROP. 1" SERVICE LINE
- M --- 1" X 1/2" DOUBLE WATER METER PROP. 1.5" SERVICE LINE
- M --- 1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
- M --- 2 - 1" X 1/2" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
- M --- 2 - 1" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE

PROPOSED

- WM --- WATER MAIN
- G --- GATE VALVE
- F --- PROP. FIRE HYDRANT
- T --- TAPPING SLEEVE
- W --- WATER SERVICE
- S --- SOLID SLEEVE
- T --- TEE
- W --- WYE
- P --- PLUG
- P --- PLUG W/ 2" BLOW OFF VALVE
- T --- TEST HOLE
- S --- SAMPLING POINT

NOTES

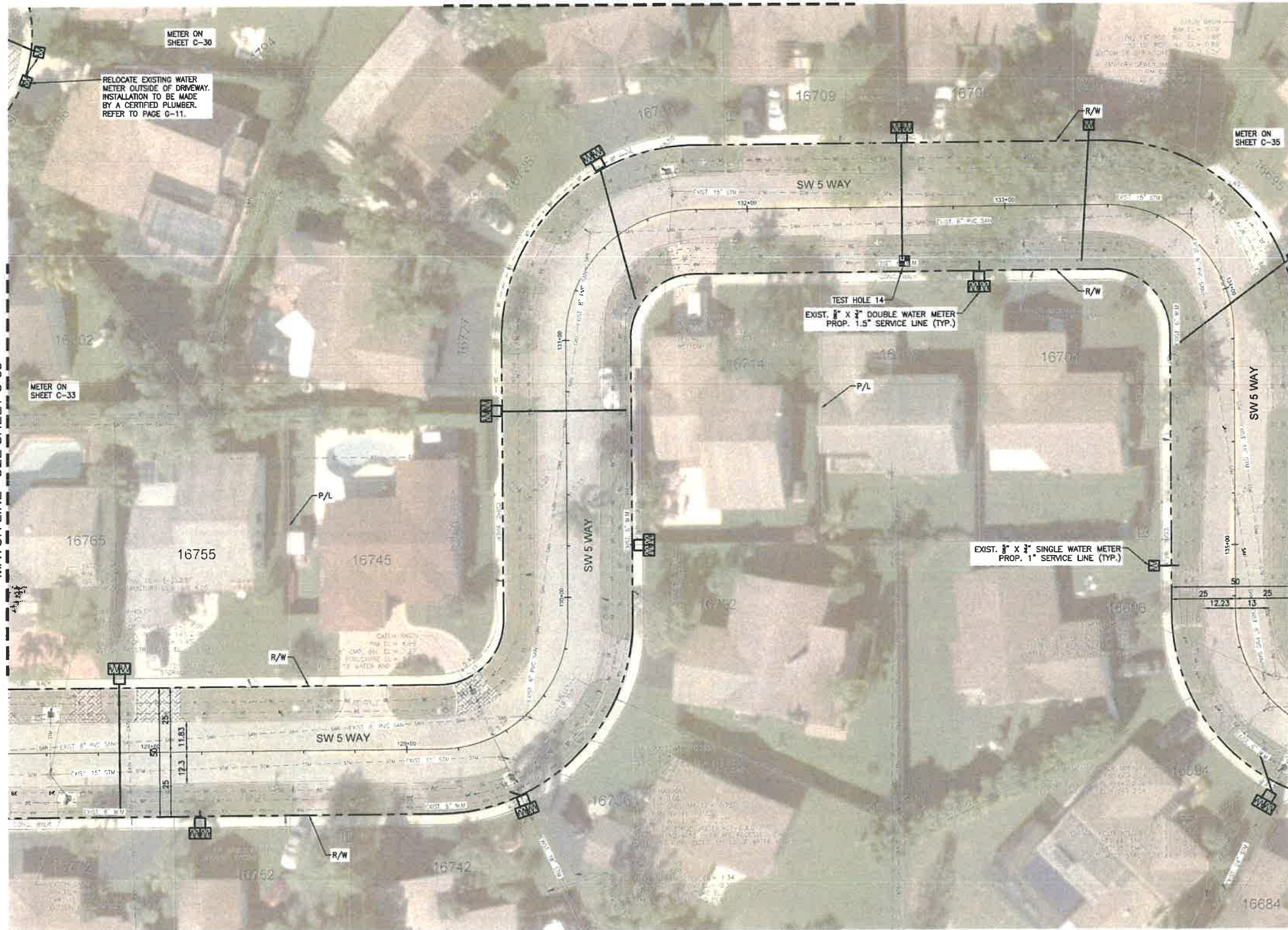
1. NO VALVES IN CURB, SIDEWALK, OR DRIVEWAYS.
2. ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-555 OF THE FAC AS APPLICABLE.
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5. REPLACE EXISTING SERVICE LINES IN KIND. CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF ANY FIELD CHANGES.

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MATCH LINE - SEE SHEET C-33

MATCH LINE - SEE SHEET C-35



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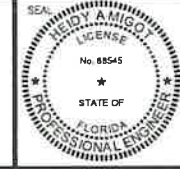
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BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS  
 AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE

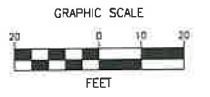
WATER SERVICE LINE PLAN



DATE: 01/28/2021  
 DRAWING NO: C-34

FILE LOCATION: H:\PROJECTS\071231\_07\_BONAVENTURE\_WA\CAD\071231\_07\_C28-C38\_WATER.DWG





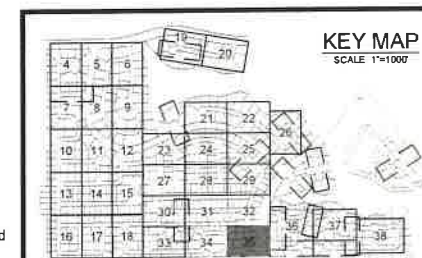
**LEGEND**

EXISTING	
	CABLE TV OVERHEAD
	CABLE TV UNDERGROUND
	ELECTRIC OVERHEAD
	ELECTRIC UNDERGROUND
	FORCE MAIN
	GAS
	IRRIGATION
	SANITARY SEWER
	STORM SEWER
	TELEPHONE UNDERGROUND
	TRAFFIC LOOP
	WATER LATERAL
	WATER MAIN
	EXISTING FIRE HYDRANT
	1/2" x 3/4" SINGLE WATER METER PROP. 1" SERVICE LINE
	3/4" x 1" DOUBLE WATER METER PROP. 1.5" SERVICE LINE
	1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
	2 - 1/2" x 3/4" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
	2 - 1" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
PROPOSED	
	WATER MAIN
	GATE VALVE
	PROP. FIRE HYDRANT
	TAPPING SLEEVE
	WATER SERVICE
	SOLID SLEEVE
	TEE
	WYE
	PLUG
	PLUG W/ 2" BLOW OFF VALVE
	TEST HOLE
	SAMPLING POINT

**NOTES**

- NO VALVES IN CURB, SIDEWALK, OR DRIVEWAYS.
- ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-555 OF THE FAC AS APPLICABLE.
- RESTORE EXISTING VALVES AND MANHOLES AT PROPOSED CONNECTIONS TO CITY STANDARDS.
- CITY OF SUNRISE DETAILS AND SPECIFICATIONS WILL GOVERN FOR WATER DISTRIBUTION INSTALLATION.
- REPLACE EXISTING SERVICE LINES IN KIND. CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF ANY FIELD CHANGES.

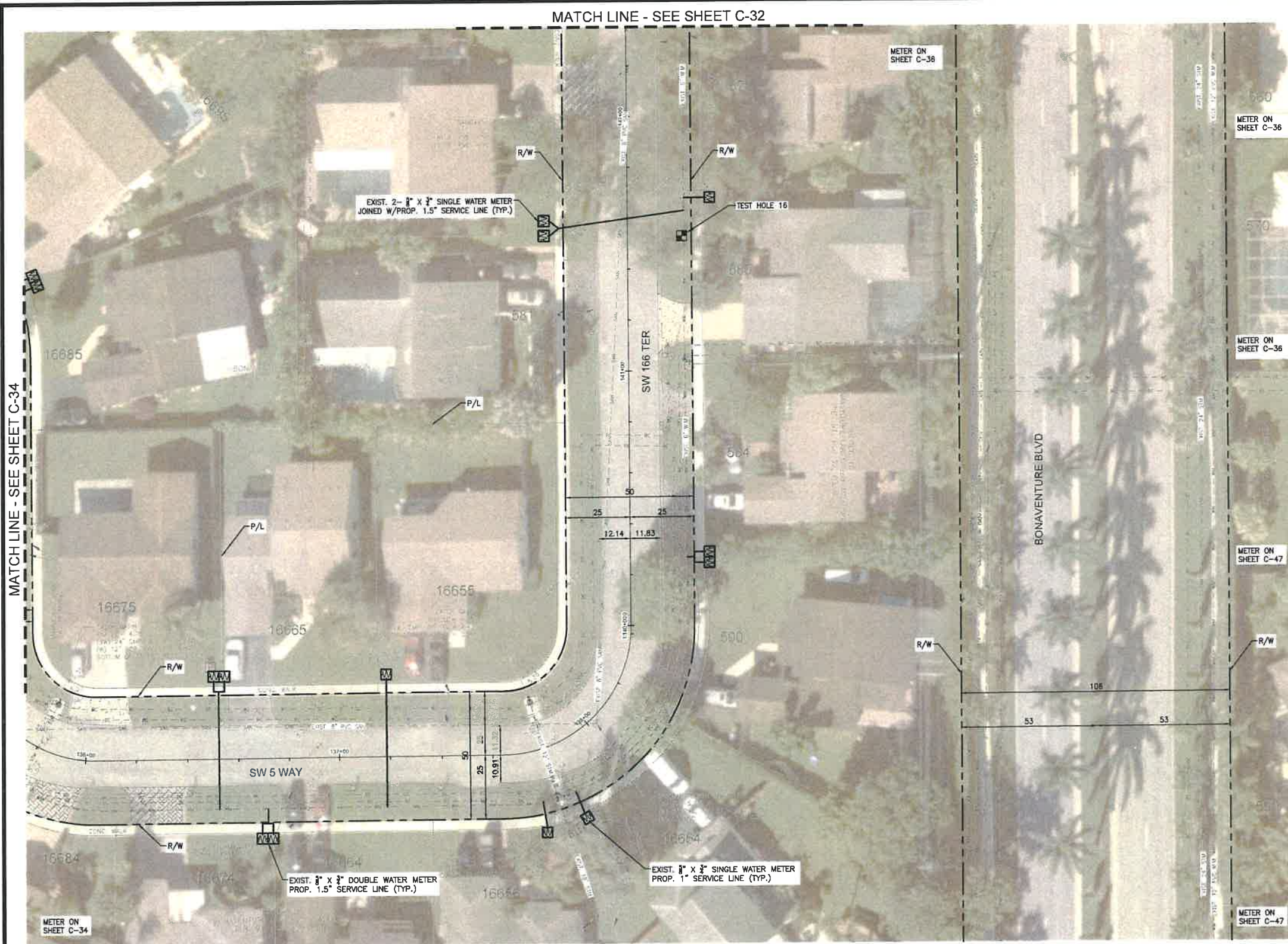
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PLOT DATE: 1/28/2021 4:58 PM

FILE LOCATION: H:\PROJECTS\0171231.07 BONAVENTURE WA\CAD\0171231.07\_C08-C08-WTR.DWG



REVISIONS		
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DESIGNED BY: H.A.  
 DRAWN BY: H.A.  
 CHECKED BY: S.J.R.  
 SCALE: 1"=20'

**bcc engineering**

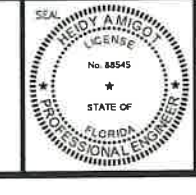
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**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**

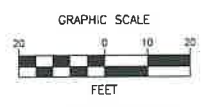
AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE: **WATER SERVICE LINE PLAN**



DATE: 01/28/2021  
 DRAWING NO.: C-35





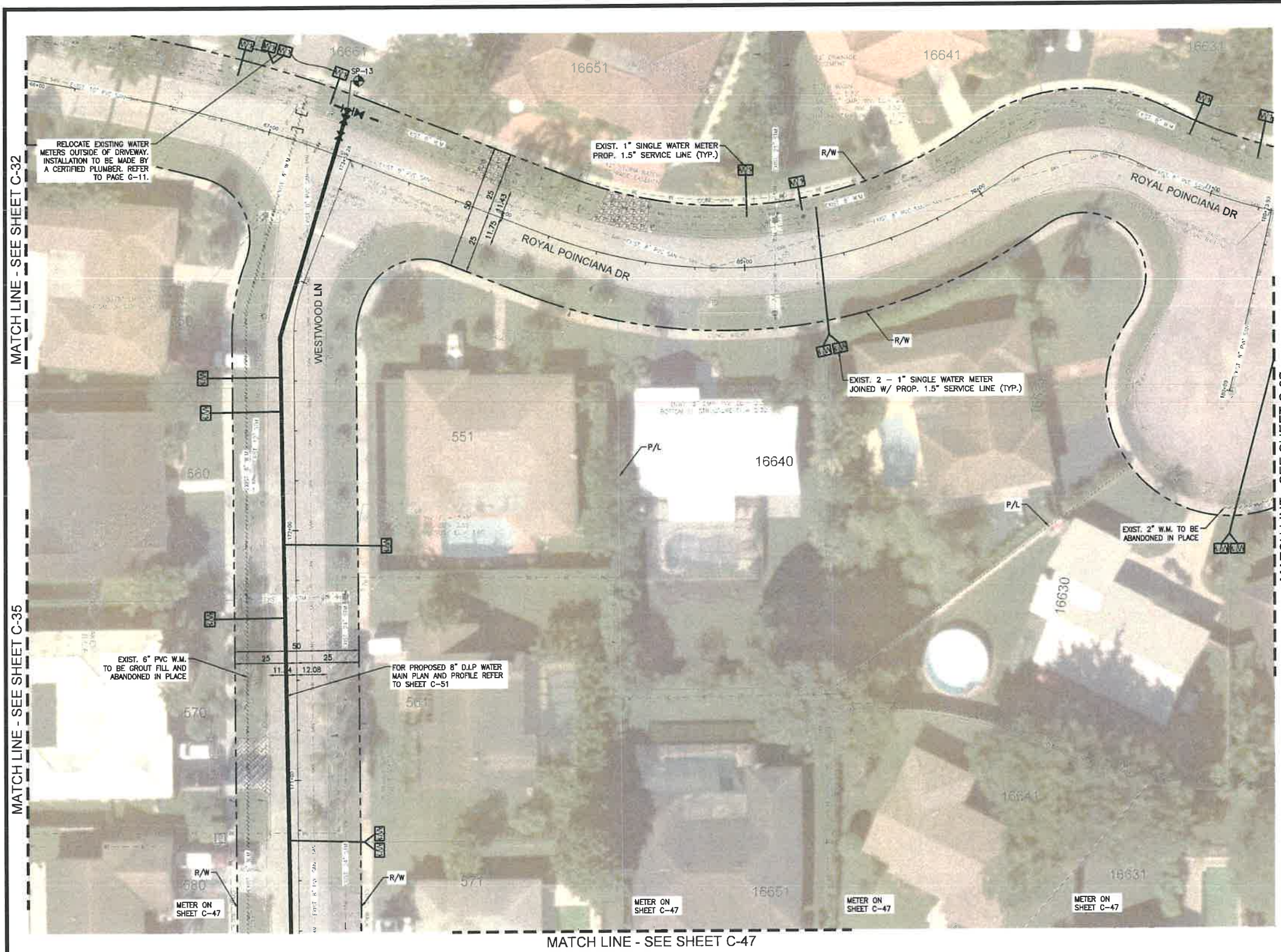
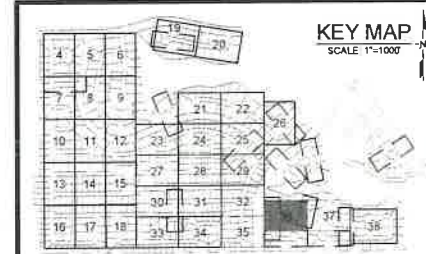
**LEGEND**

EXISTING	
---	CABLE TV OVERHEAD
---	CABLE TV UNDERGROUND
---	ELECTRIC OVERHEAD
---	ELECTRIC UNDERGROUND
---	FORCE MAIN
---	GAS
---	IRRIGATION
---	SANITARY SEWER
---	STORM SEWER
---	TELEPHONE UNDERGROUND
---	TRAFFIC LOOP
---	WATER LATERAL
---	WATER MAIN
⊙	EXISTING FIRE HYDRANT
⊙	1" X 1/2" SINGLE WATER METER PROP. 1" SERVICE LINE
⊙	1" X 1/2" DOUBLE WATER METER PROP. 1.5" SERVICE LINE
⊙	1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
⊙	2 - 1" X 1/2" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
⊙	2 - 1" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE
PROPOSED	
---	WATER MAIN
⊙	GATE VALVE
⊙	PROP. FIRE HYDRANT
---	TAPPING SLEEVE
---	WATER SERVICE
---	SOLID SLEEVE
---	TEE
---	WYE
---	PLUG
---	PLUG W/ 2" BLOW OFF VALVE
---	TEST HOLE
---	SAMPLING POINT

**NOTES**

- NO VALVES IN CURB, SIDEWALK, OR DRIVEWAYS.
- ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-555 OF THE FAC AS APPLICABLE.
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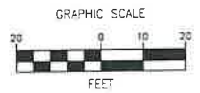
**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**  
 AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**WATER SERVICE LINE PLAN**



DATE: 01/28/2021  
 DRAWING NO.: C-36



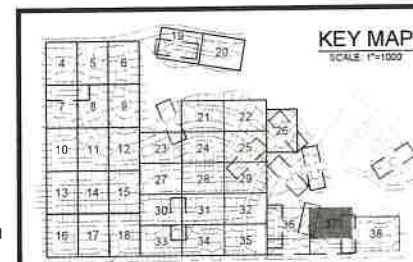


**LEGEND**

- EXISTING**
- CABLE TV OVERHEAD
  - CABLE TV UNDERGROUND
  - ELECTRIC OVERHEAD
  - ELECTRIC UNDERGROUND
  - FORCE MAIN
  - GAS
  - IRRIGATION
  - SANITARY SEWER
  - STORM SEWER
  - TELEPHONE UNDERGROUND
  - TRAFFIC LOOP
  - WATER LATERAL
  - WATER MAIN
- PROPOSED**
- WATER MAIN
  - GATE VALVE
  - PROP. FIRE HYDRANT
  - TAPPING SLEEVE
  - WATER SERVICE
  - SOLID SLEEVE
  - TEE
  - WYE
  - PLUG
  - PLUG W/ 2" BLOW OFF VALVE
  - TEST HOLE
  - SAMPLING POINT

**NOTES**

1. NO VALVES IN CURB, SIDEWALK, OR DRIVEWAYS.
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5. REPLACE EXISTING SERVICE LINES IN KIND. CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF ANY FIELD CHANGES.



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MATCH LINE - SEE SHEET C-36

MATCH LINE - SEE SHEET C-38

MATCH LINE - SEE SHEET C-48

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NO.	DATE	DESCRIPTION

DESIGNED BY: H.A.  
 DRAWN BY: H.A.  
 CHECKED BY: S.J.R.  
 SCALE: 1"=20'



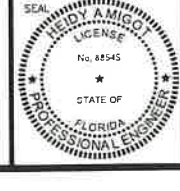
6401 SW 87th Ave, Ste. 200  
 Miami, Florida 33173  
 Tel: 305.670.2350 Fax: 305.670.2351  
 www.bcceng.com  
 Certificate of Authorization No. 7184



**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**  
 AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

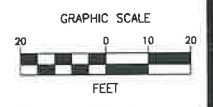
SHEET TITLE

**WATER SERVICE LINE PLAN**



DATE: 01/28/2021  
 DRAWING NO.: C-37





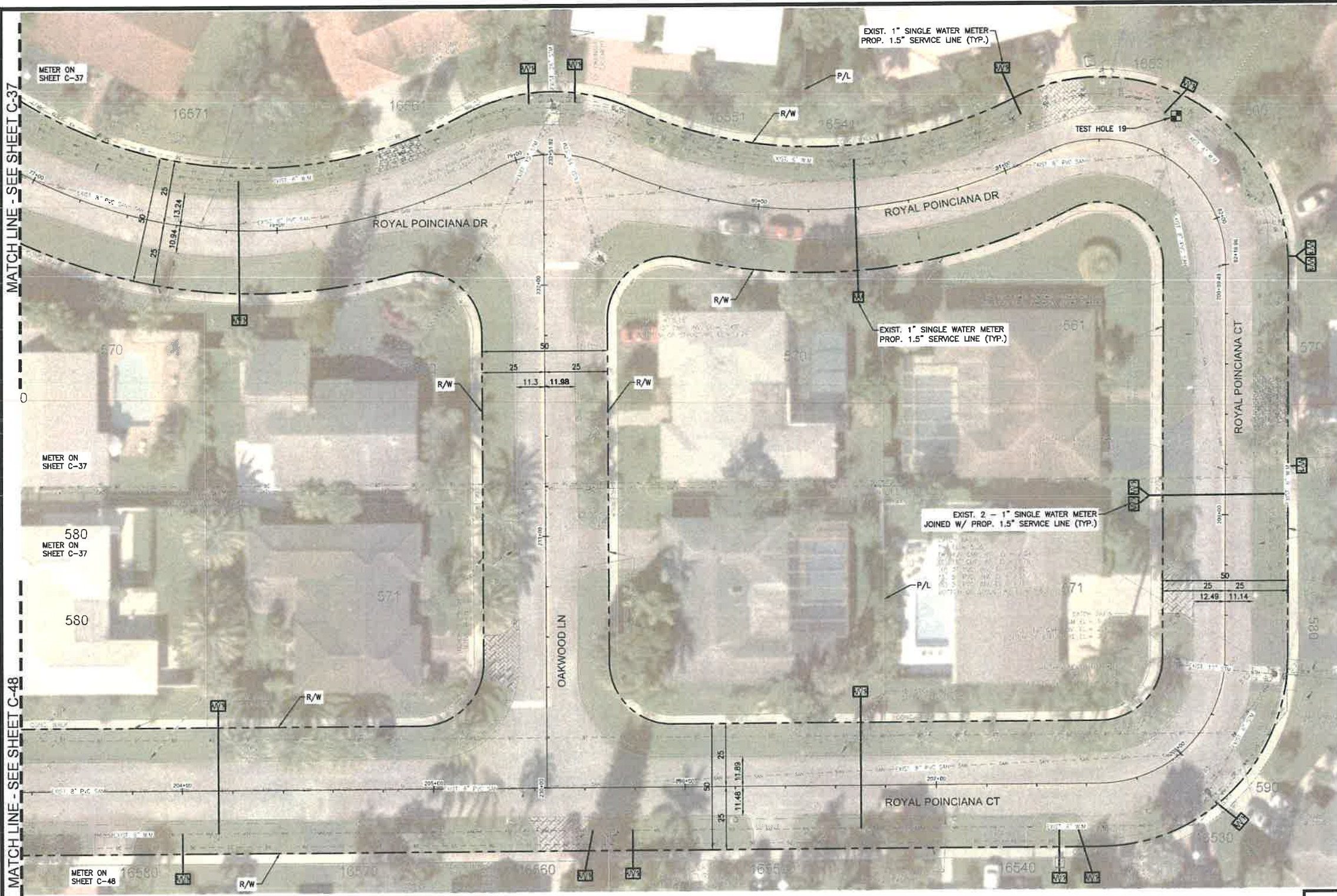
**LEGEND**

**EXISTING**

- CEA-V --- CABLE TV OVERHEAD
- CA-U --- CABLE TV UNDERGROUND
- OE --- ELECTRIC OVERHEAD
- EE --- ELECTRIC UNDERGROUND
- FM --- FORCE MAIN
- GAS --- GAS
- RR --- IRRIGATION
- SA-U --- SANITARY SEWER
- S-W --- STORM SEWER
- TU --- TELEPHONE UNDERGROUND
- TL --- TRAFFIC LOOP
- WL --- WATER LATERAL
- WM --- WATER MAIN
- FHY --- EXISTING FIRE HYDRANT
- X 1" --- EXIST. 1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
- X 2" --- EXIST. 2" DOUBLE WATER METER PROP. 1.5" SERVICE LINE
- 1" --- 1" SINGLE WATER METER PROP. 1.5" SERVICE LINE
- 2-1" --- 2-1" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE

**PROPOSED**

- WM --- WATER MAIN
- GV --- GATE VALVE
- FHY --- PROP. FIRE HYDRANT
- TS --- TAPPING SLEEVE
- WS --- WATER SERVICE
- SS --- SOLID SLEEVE
- TEE --- TEE
- WVE --- WVE
- PLUG --- PLUG
- PWOV --- PLUG W/ 2" BLOW OFF VALVE
- TH --- TEST HOLE
- SP --- SAMPLING POINT



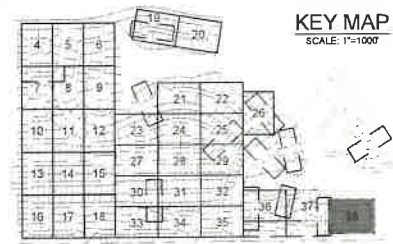
MATCH LINE - SEE SHEET C-37

MATCH LINE - SEE SHEET C-48

**NOTES**

1. NO VALVES IN CURB, SIDEWALK, OR DRIVEWAYS.
2. ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-555 OF THE FAC AS APPLICABLE
3. RESTORE EXISTING VALVES AND MANHOLES AT PROPOSED CONNECTIONS TO CITY STANDARDS.
4. CITY OF SUNRISE DETAILS AND SPECIFICATIONS WILL GOVERN FOR WATER DISTRIBUTION INSTALLATION.
5. REPLACE EXISTING SERVICE LINES IN KIND. CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF ANY FIELD CHANGES.

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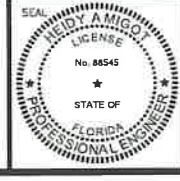


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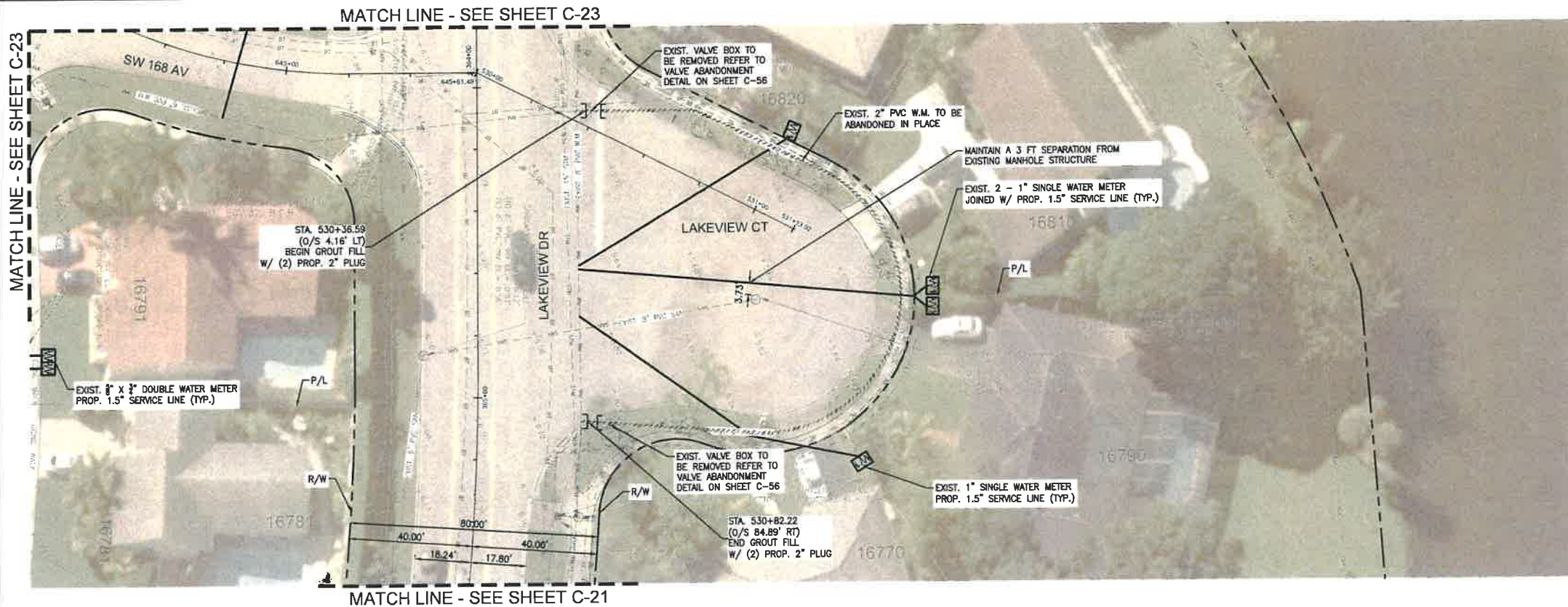
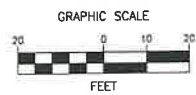
**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**  
 AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**WATER SERVICE LINE PLAN**



DATE: 01/28/2021  
 DRAWING NO.: C-38



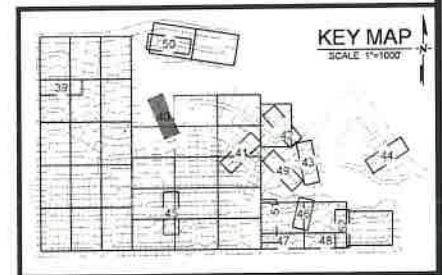


**LEGEND**

EXISTING	PROPOSED

**NOTES**

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REVISIONS		
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 SCALE: H:1"=20' V:1"=2'

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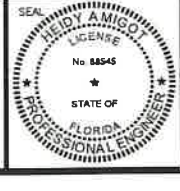


**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**

AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE

**WATER MAIN PLAN AND PROFILE**

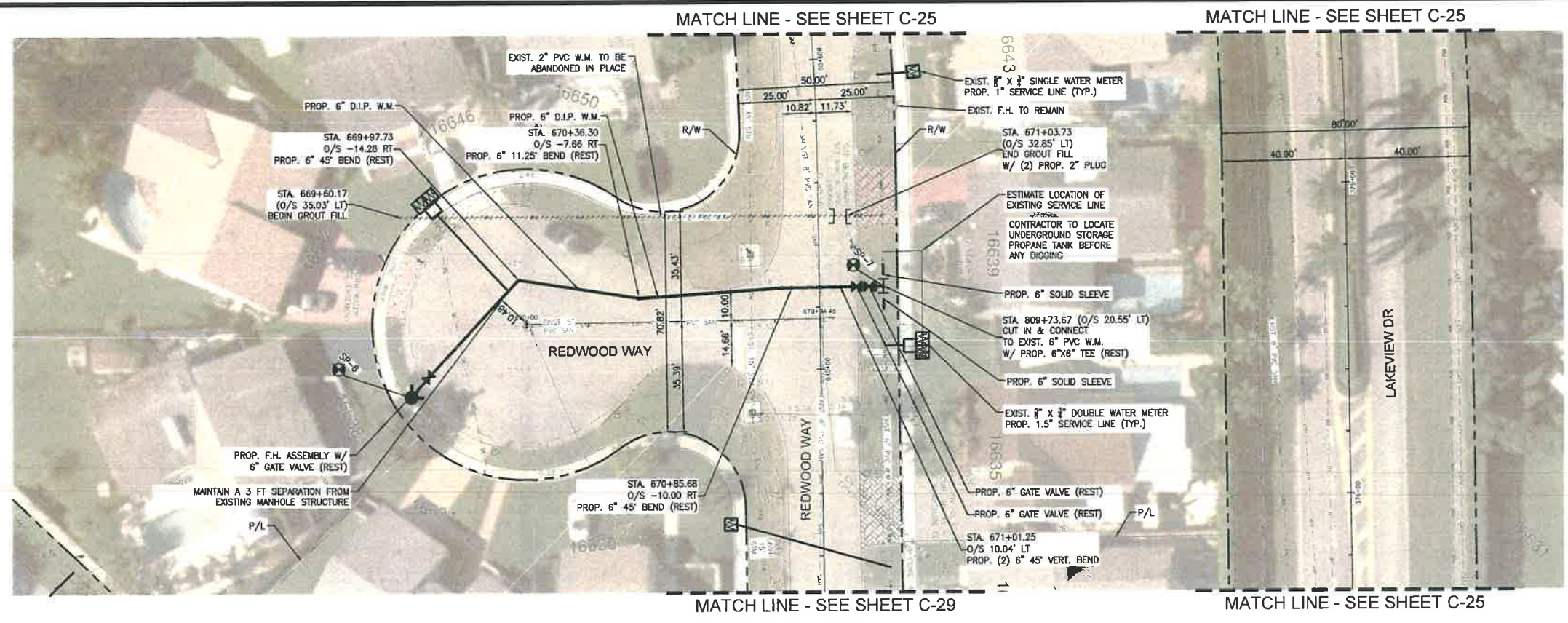
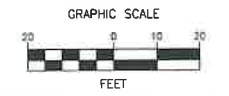


DATE: 01/28/2021  
 DRAWING NO. C-40



PLT DATE: 3/22/2021 8:06 PM

BCTED REFERENCE No. 201214060

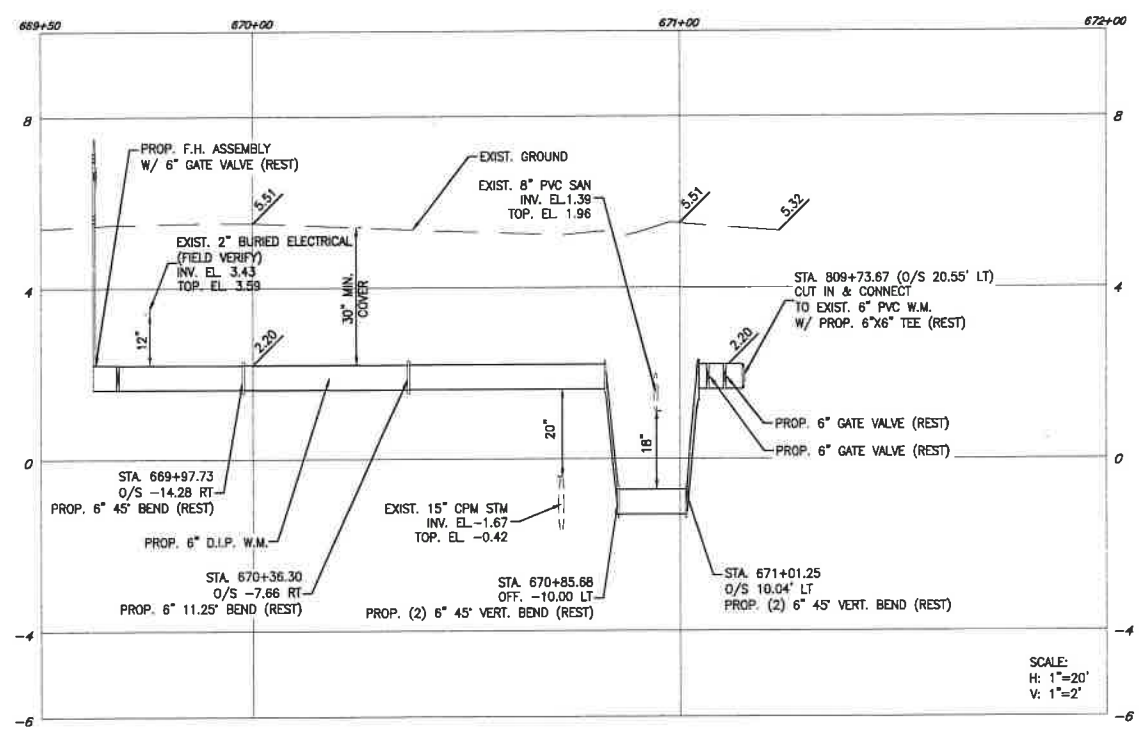


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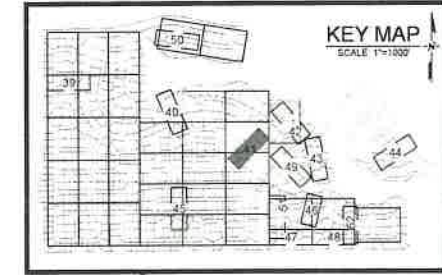
EXISTING	PROPOSED

**NOTES**

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SCALE:  
H: 1"=20'  
V: 1"=2'



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**THRUST RESTRAINT NOTES**

- ALL JOINTS BETWEEN BENDS AT HORIZONTAL & VERTICAL OFFSETS SHALL BE RESTRAINED.
- MECHANICAL THRUST RESTRAINTS FOR D.I.P. FITTINGS ON D.I.P. PIPE SHALL BE MEGALUG AS MANUFACTURED BY EBAA IRON INC., OR APPROVED EQUAL.
- REFER TO SHEET C-54 FOR THRUST RESTRAINT LENGTH REQUIREMENTS.

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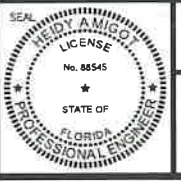


**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**

AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE

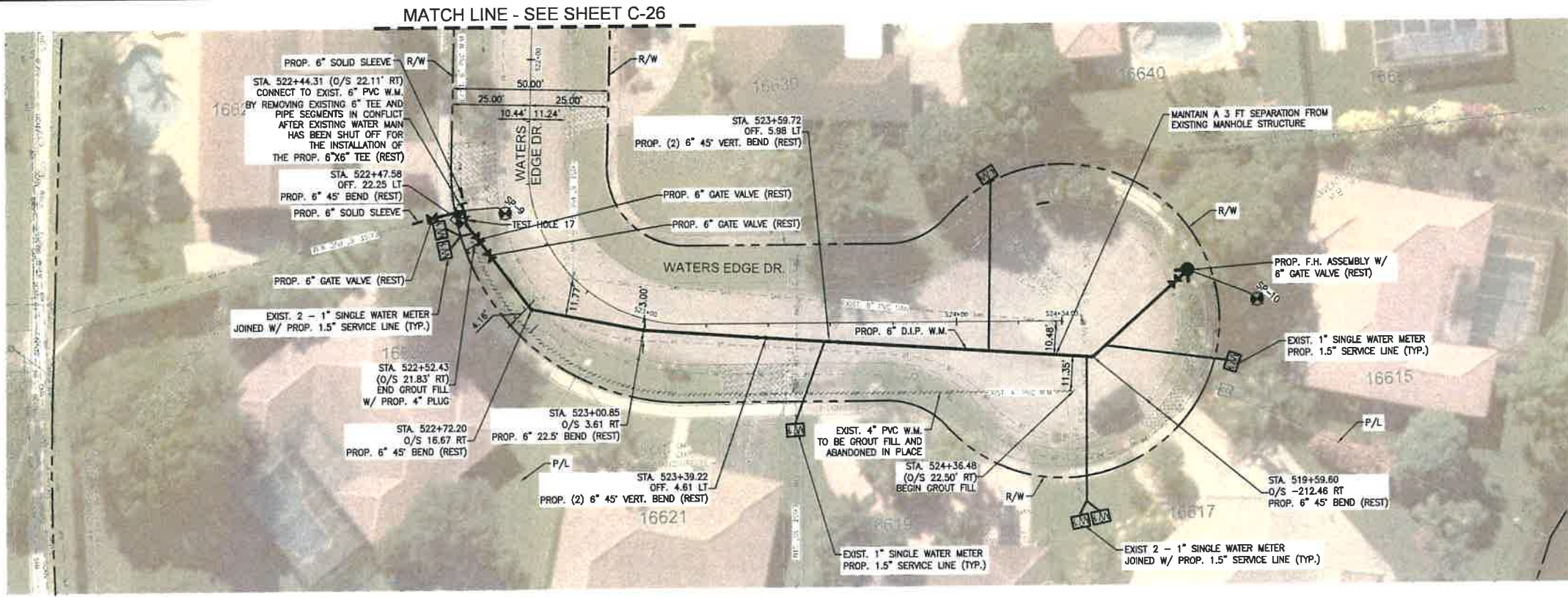
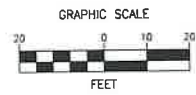
**WATER MAIN PLAN AND PROFILE**



DATE: 01/28/2021  
 DRAWING NO. C-41

FILE LOCATION: H:\PROJECTS\0171231.07\_BONAVENTURE\WVA\0171231.07\_C39-C52\_PUPR.DWG



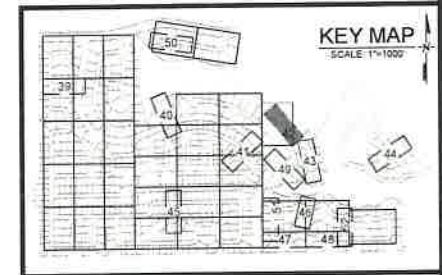
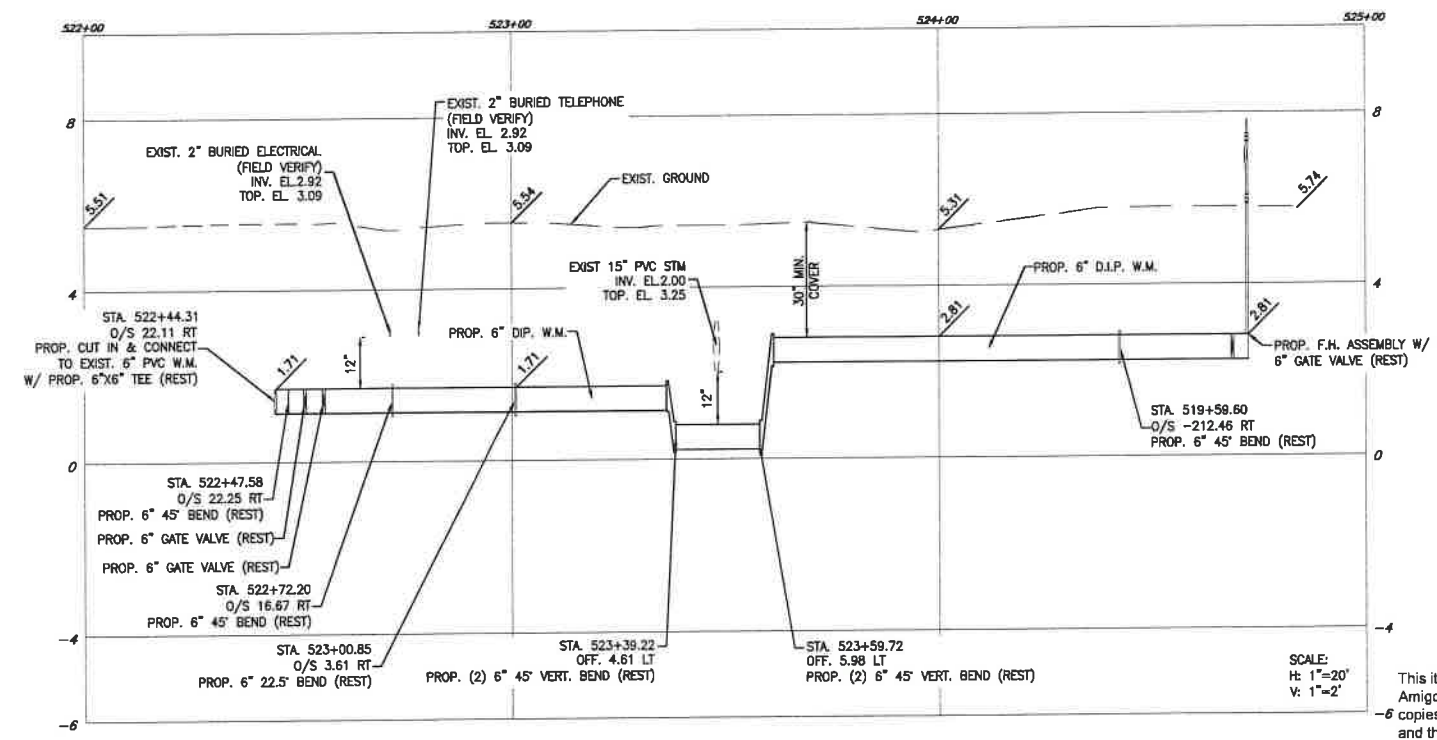


**LEGEND**

EXISTING	PROPOSED

**NOTES**

- NO VALVES IN CURB, SIDEWALK, OR DRIVEWAYS.
- ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 82-555 OF THE FAC AS APPLICABLE.
- RESTORE EXISTING VALVES AND MANHOLES AT PROPOSED CONNECTIONS TO CITY STANDARDS.
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**THRUST RESTRAINT NOTES**

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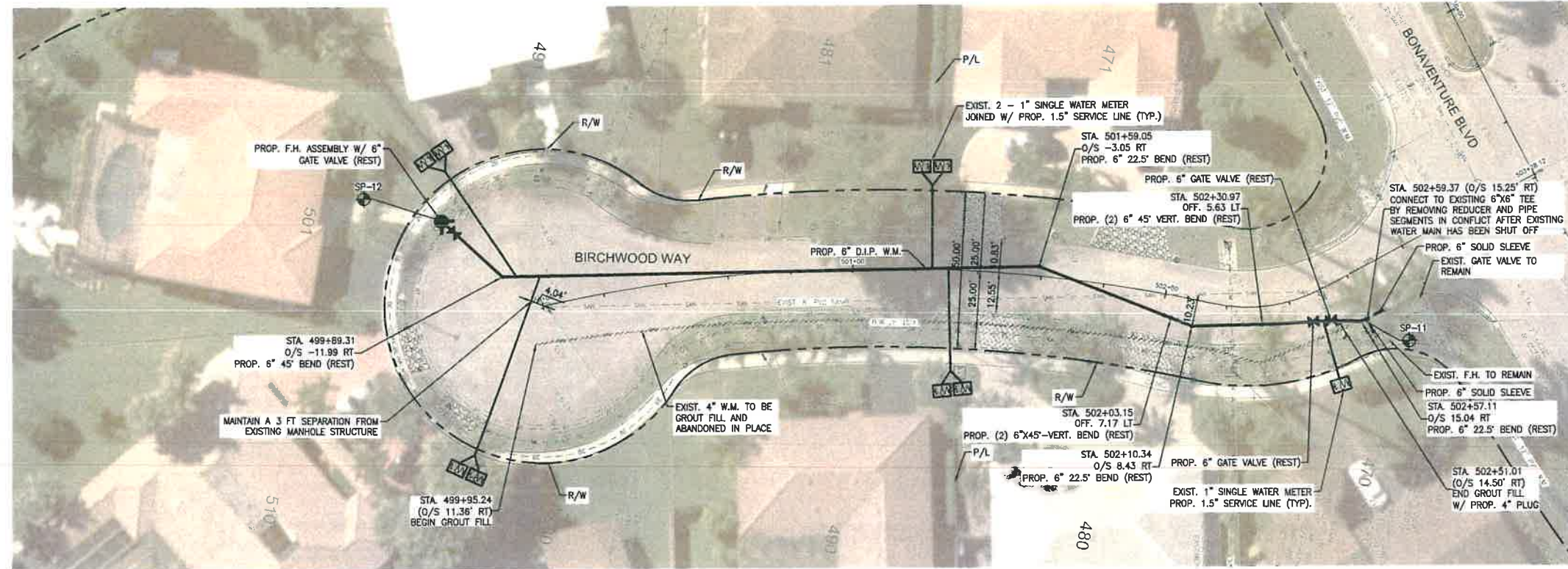
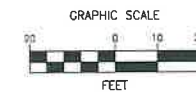
**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**  
 AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**WATER MAIN PLAN AND PROFILE**

DATE: 01/28/2021  
 DRAWING NO.: C-42

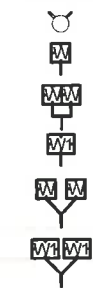
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**LEGEND**

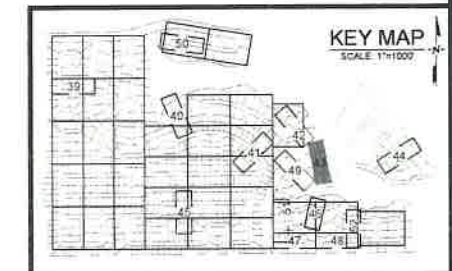
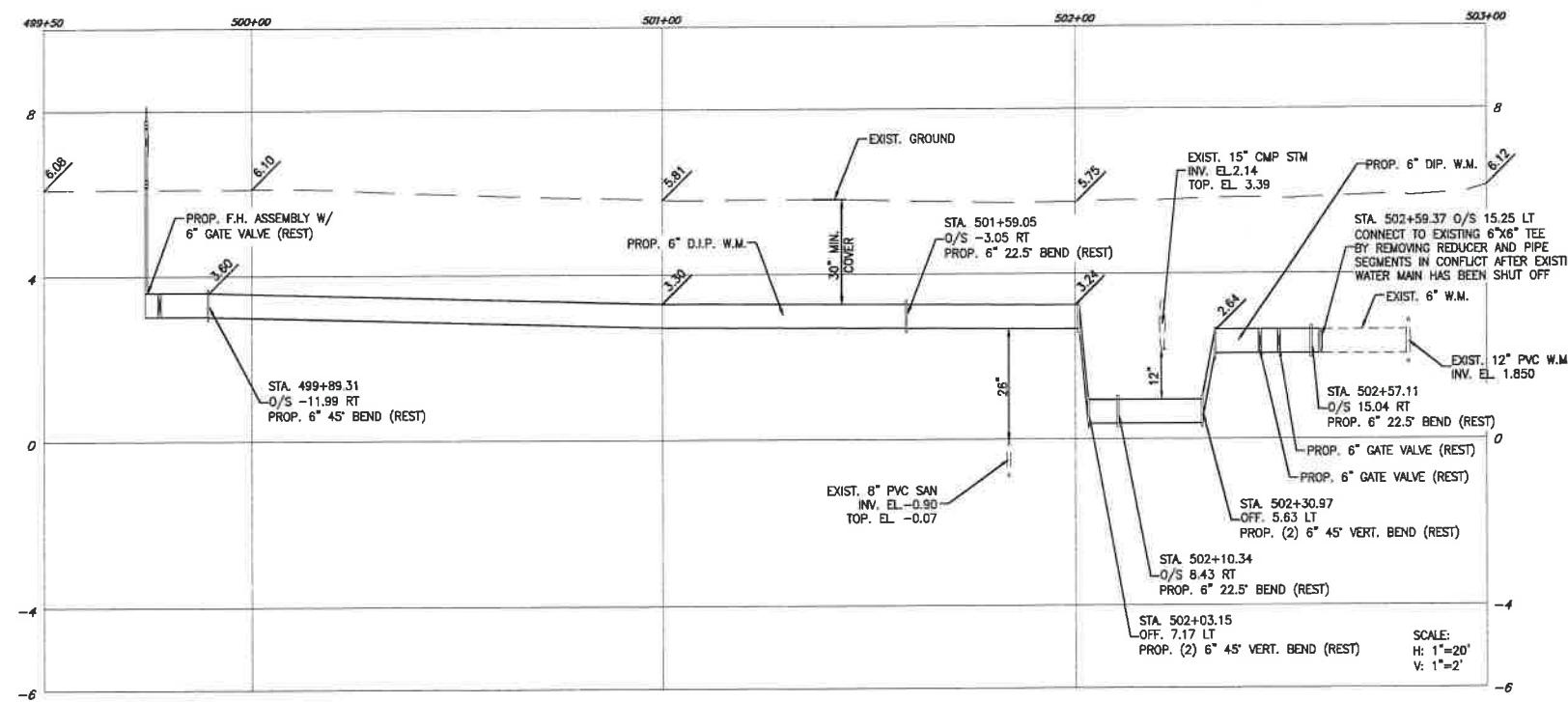
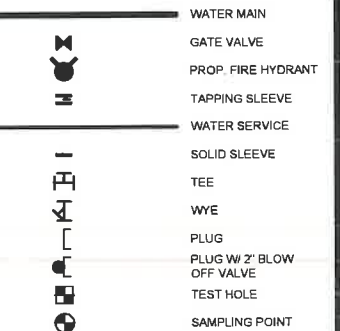
**EXISTING**



**NOTES**

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**PROPOSED**



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**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**

AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE

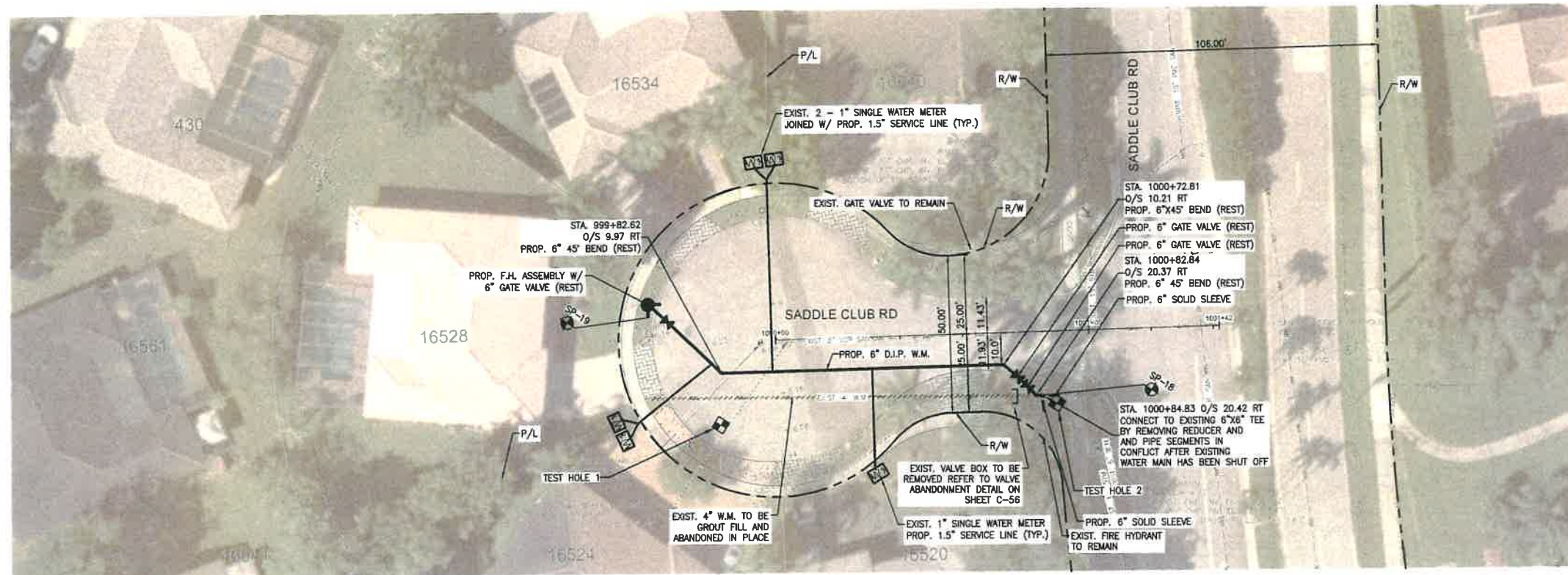
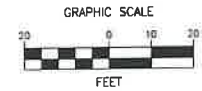
**WATER MAIN PLAN AND PROFILE**



DATE: 01/28/2021  
 DRAWING NO. C-43

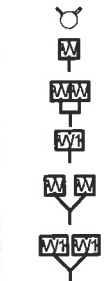
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 PLOT DATE: 3/23/2021 11:17 PM





**LEGEND**

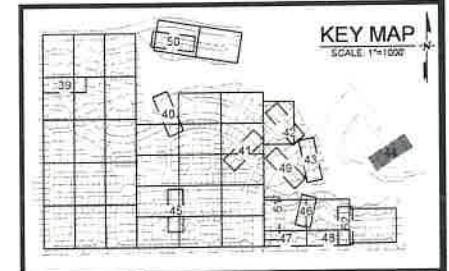
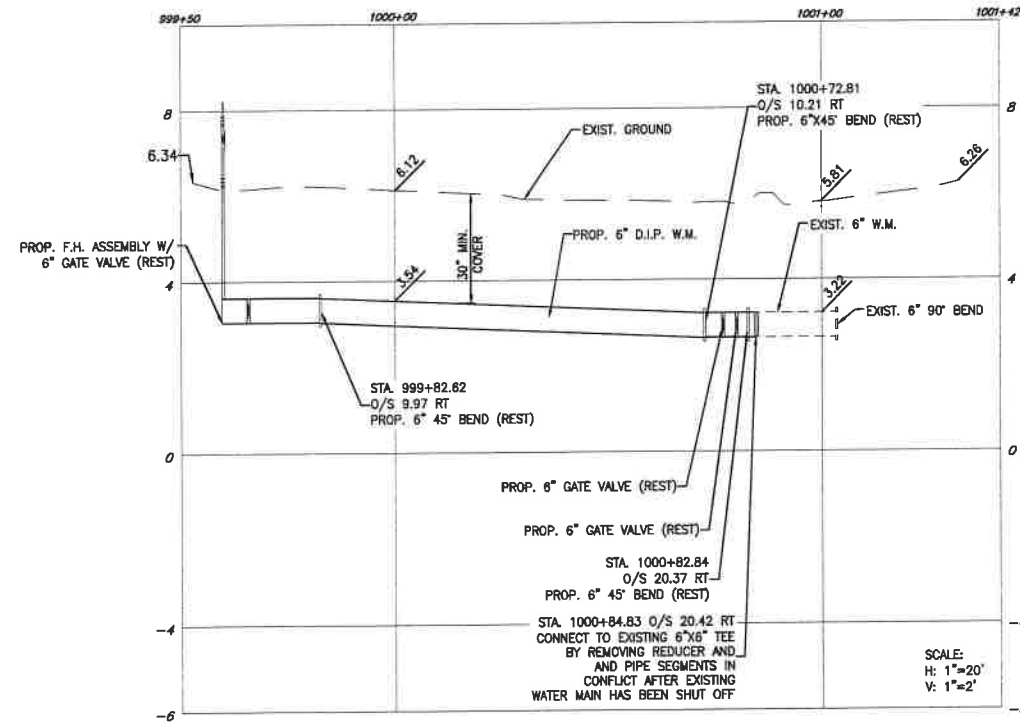
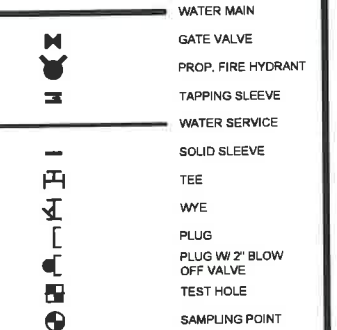
**EXISTING**



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**PROPOSED**



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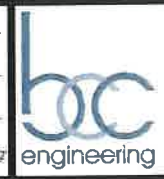
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**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**  
 AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**WATER MAIN PLAN AND PROFILE**



DATE: 01/28/2021  
 DRAWING NO.: C-44

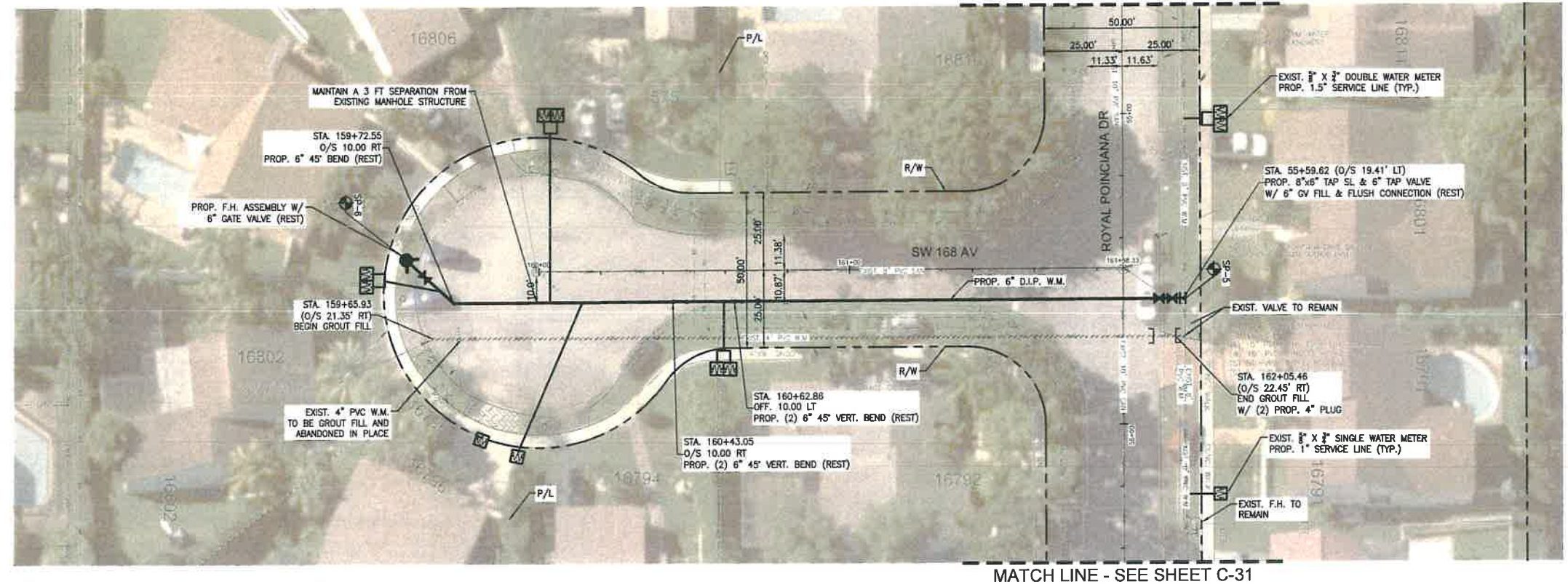


PLOT DATE: 3/22/2021 8:21 PM

BCTD REFERENCE No. 201214060

ENGINEERING DEPARTMENT  
Approved for Code Compliance

1996  
ENG22-00174  
5/26/2022  
CITY OF WESTON

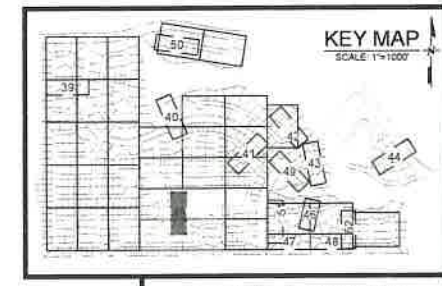
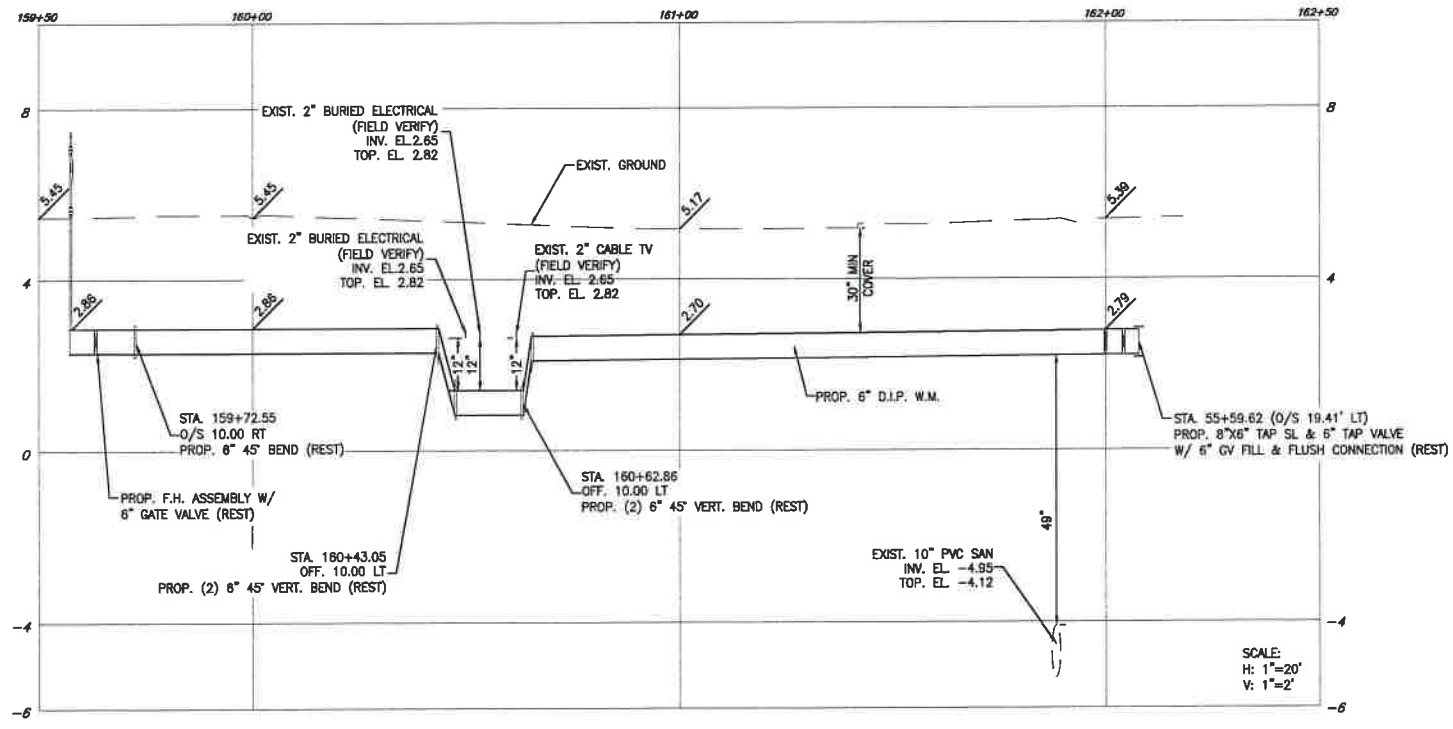


**LEGEND**

EXISTING	PROPOSED	EXISTING	PROPOSED
		EXISTING FIRE HYDRANT	WATER MAIN
		1" SINGLE WATER METER PROP. 1.5" SERVICE LINE	GATE VALVE
		2" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE	PROP. FIRE HYDRANT
		2" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE	TAPPING SLEEVE
		2" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE	WATER SERVICE
		2" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE	SOLID SLEEVE
		2" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE	TEE
		2" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE	WVE
		2" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE	PLUG
		2" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE	PLUG W/ 2" BLOW OFF VALVE
		2" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE	TEST HOLE
		2" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE	SAMPLING POINT

**NOTES**

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FILE LOCATION: H:\PROJECTS\0171231.07 BONNAVENTURE\WVA\00\0171231.07\_C39-C52\_P1.PLDWG

REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY: H.A.  
DRAWN BY: H.A.  
CHECKED BY: S.J.R.  
SCALE: H: 1"=20' V: 1"=2'

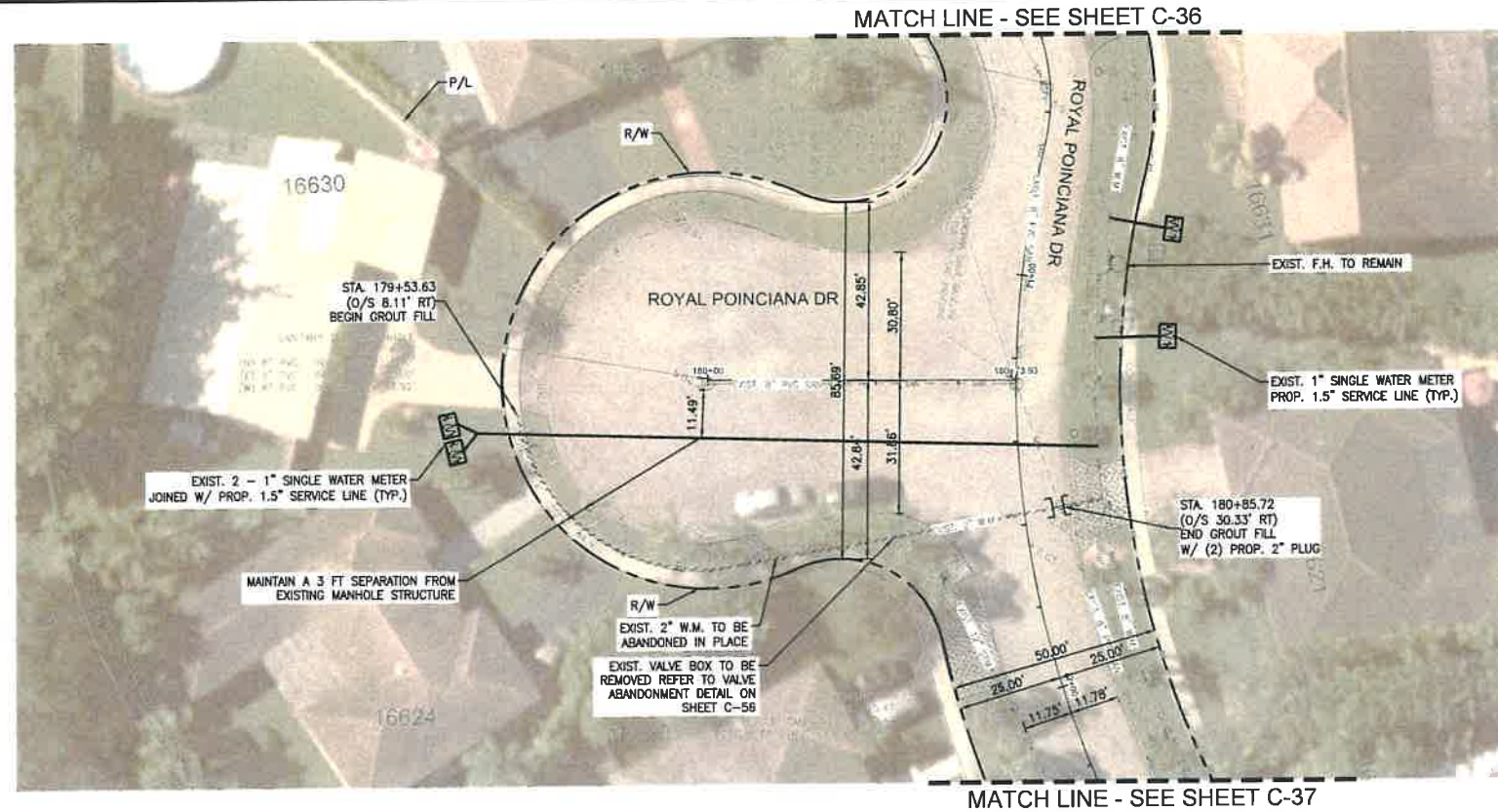
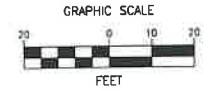
6401 SW 87th Ave, Ste. 200  
Miami, Florida 33173  
Tel: 305.670.2350 Fax: 305.670.2351  
www.bcceng.com  
Certificate of Authorization No. 7184

**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**  
AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**WATER MAIN PLAN AND PROFILE**

DATE: 01/28/2021  
DRAWING NO.: C-45





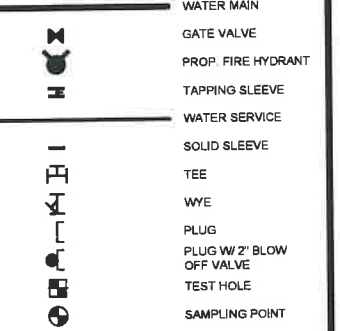
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**EXISTING**



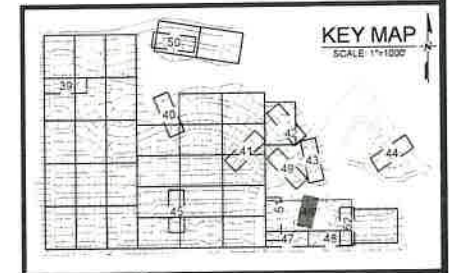
EXISTING FIRE HYDRANT  
 1" X 1/2" SINGLE WATER METER  
 PROP. 1" SERVICE LINE  
 1" X 1/2" DOUBLE WATER METER  
 PROP. 1.5" SERVICE LINE  
 1" SINGLE WATER METER  
 PROP. 1.5" SERVICE LINE  
 2 - 1/2" X 1/2" SINGLE WATER METER  
 JOINED W/ PROP. 1.5" SERVICE LINE  
 2 - 1" SINGLE WATER METER  
 JOINED W/ PROP. 1.5" SERVICE LINE

**PROPOSED**



**NOTES**

- NO VALVES IN CURB, SIDEWALK, OR DRIVEWAYS.
- ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-555 OF THE FAC AS APPLICABLE.
- RESTORE EXISTING VALVES AND MANHOLES AT PROPOSED CONNECTIONS TO CITY STANDARDS.
- CITY OF SUNRISE DETAILS AND SPECIFICATIONS WILL GOVERN FOR WATER DISTRIBUTION INSTALLATION.
- REPLACE EXISTING SERVICE LINES IN KIND. CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF ANY FIELD CHANGES.



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REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY: H.A.  
 DRAWN BY: H.A.  
 CHECKED BY: S.J.R.  
 SCALE: H:1"=20' V:1"=2'



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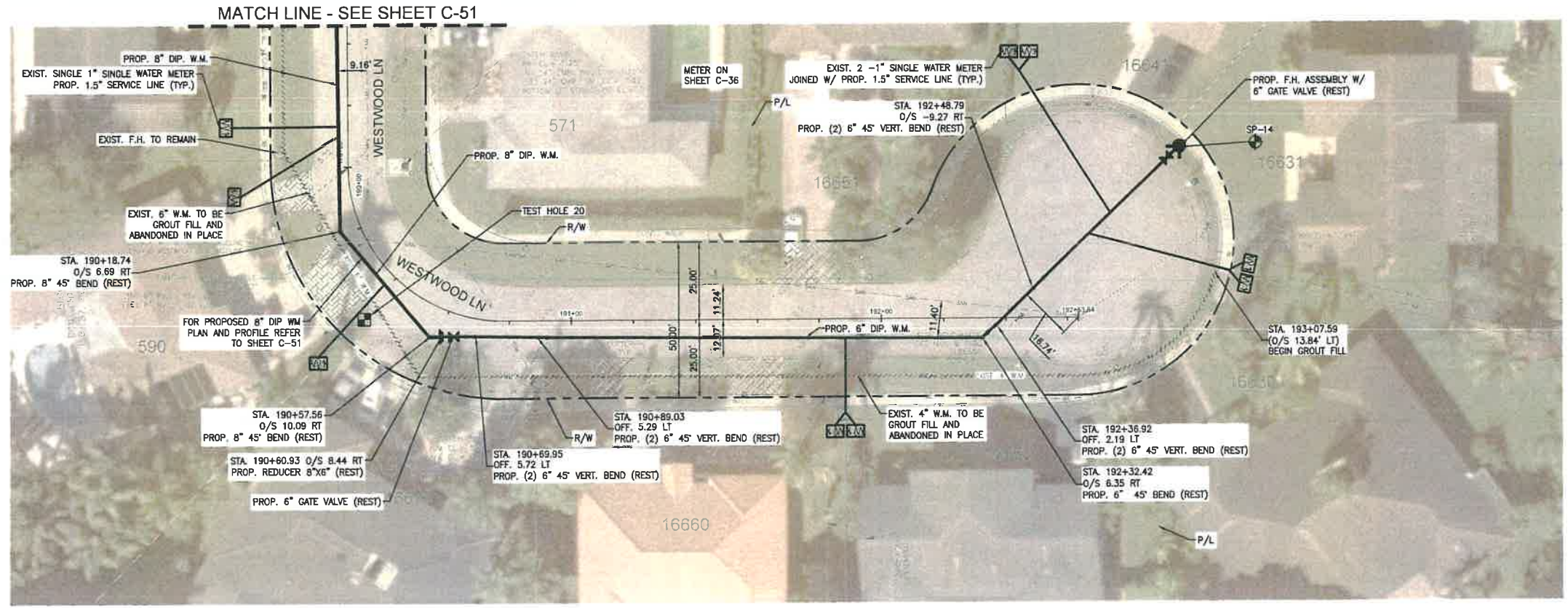
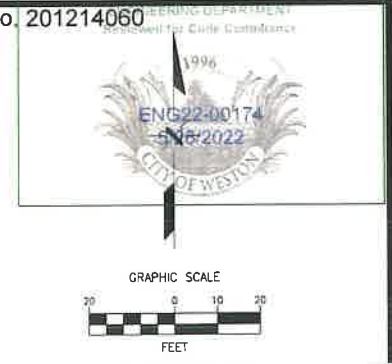
**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**  
 AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**WATER MAIN PLAN AND PROFILE**



DATE: 01/28/2021  
 DRAWING NO: C-46



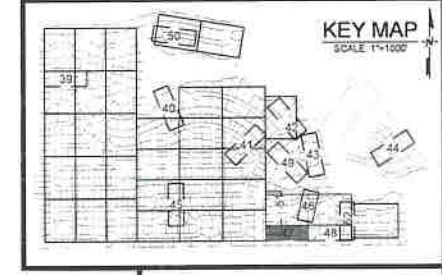
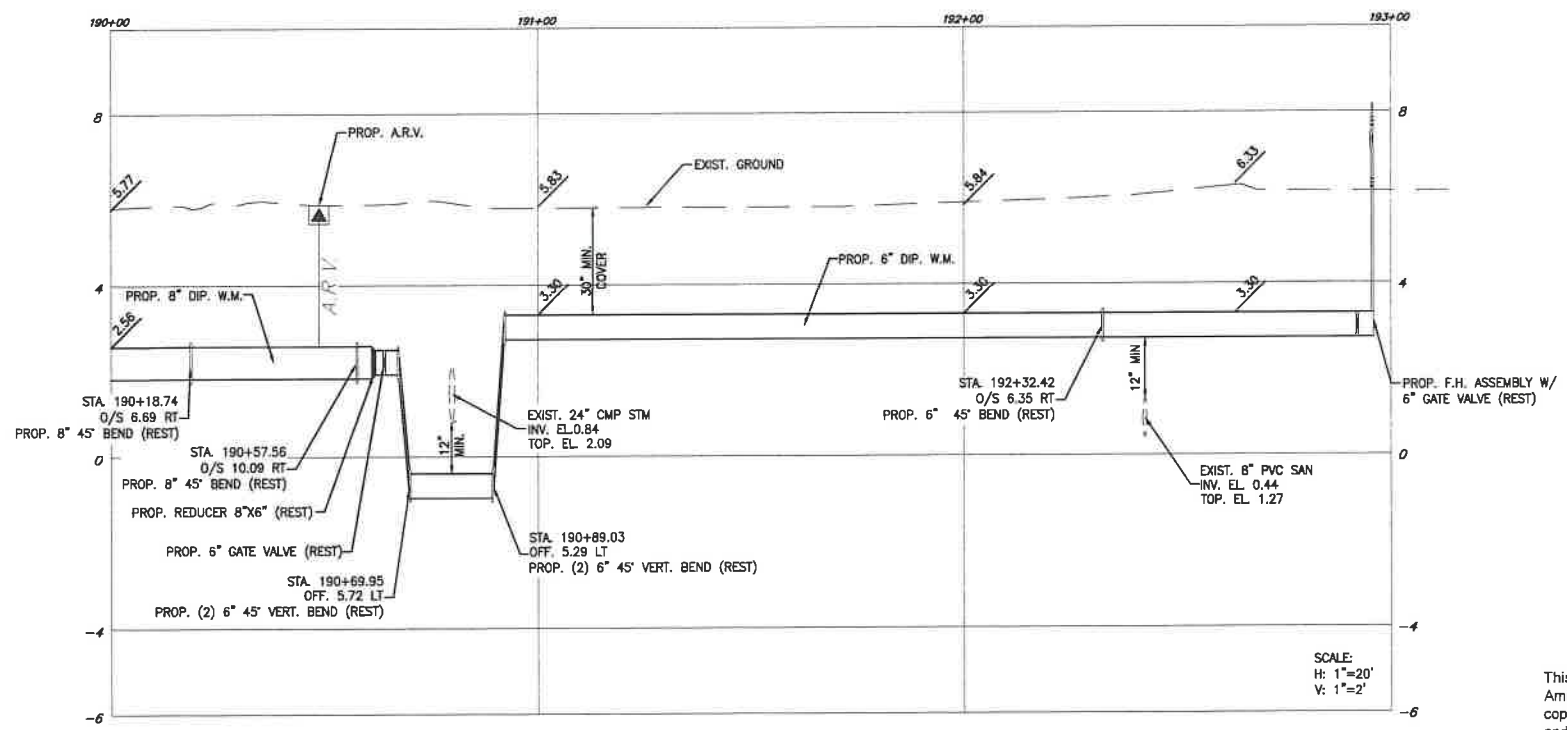


**LEGEND**

EXISTING	PROPOSED

**NOTES**

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**THRUST RESTRAINT NOTES**

- ALL JOINTS BETWEEN BENDS AT HORIZONTAL & VERTICAL OFFSETS SHALL BE RESTRAINED.
- MECHANICAL THRUST RESTRAINTS FOR D.I.P. FITTINGS ON D.I.P. PIPE SHALL BE MEGALUG AS MANUFACTURED BY EBAA IRON, INC., OR APPROVED EQUAL.
- REFER TO SHEET C-54 FOR THRUST RESTRAINT LENGTH REQUIREMENTS.

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REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY: H.A.  
 DRAWN BY: H.A.  
 CHECKED BY: S.J.R.  
 SCALE: H: 1"=20' / V: 1"=2'

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**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**

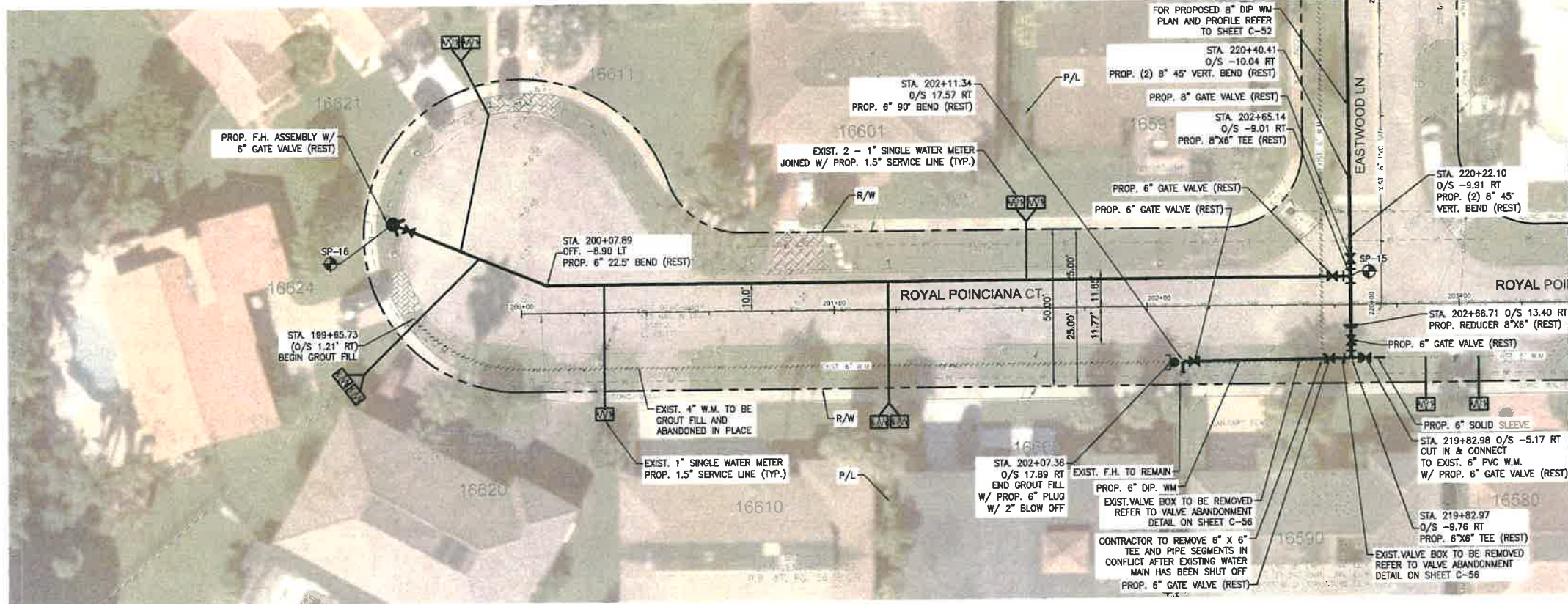
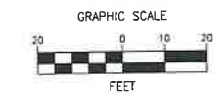
AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**WATER MAIN PLAN AND PROFILE**

DATE: 01/28/2021  
 DRAWING NO.: C-47

PLOT DATE: 3/22/2021 8:26 PM  
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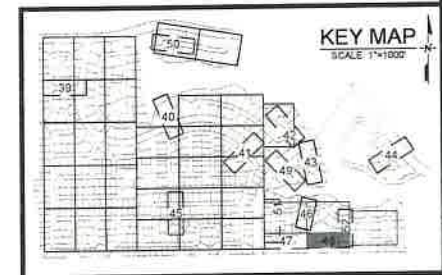
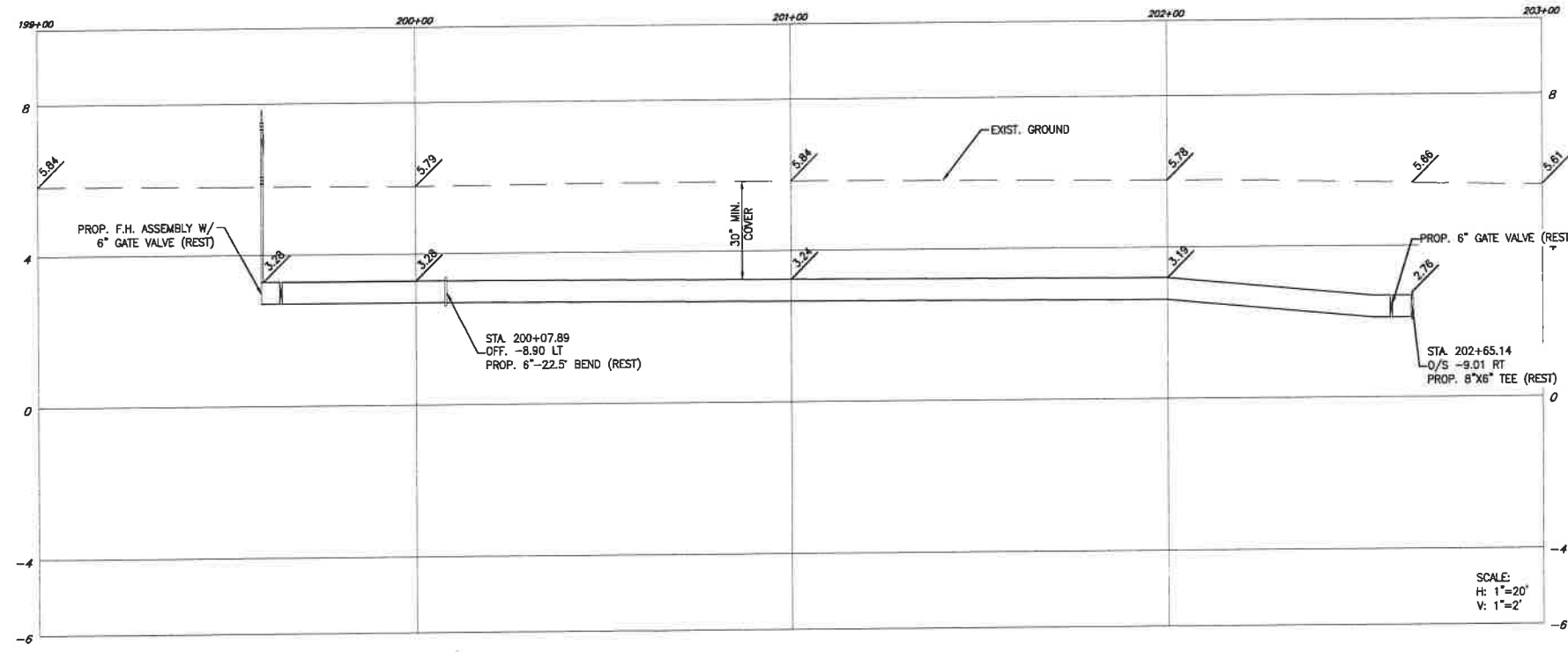


**LEGEND**

EXISTING	PROPOSED

**NOTES**

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**THRUST RESTRAINT NOTES**

- ALL JOINTS BETWEEN BENDS AT HORIZONTAL & VERTICAL OFFSETS SHALL BE RESTRAINED.
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- REFER TO SHEET C-54 FOR THRUST RESTRAINT LENGTH REQUIREMENTS.

REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY: H.A.  
 DRAWN BY: H.A.  
 CHECKED BY: S.J.R.  
 SCALE: H: 1"=20' V: 1"=2'

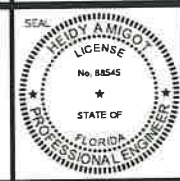


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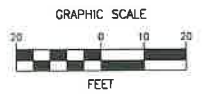
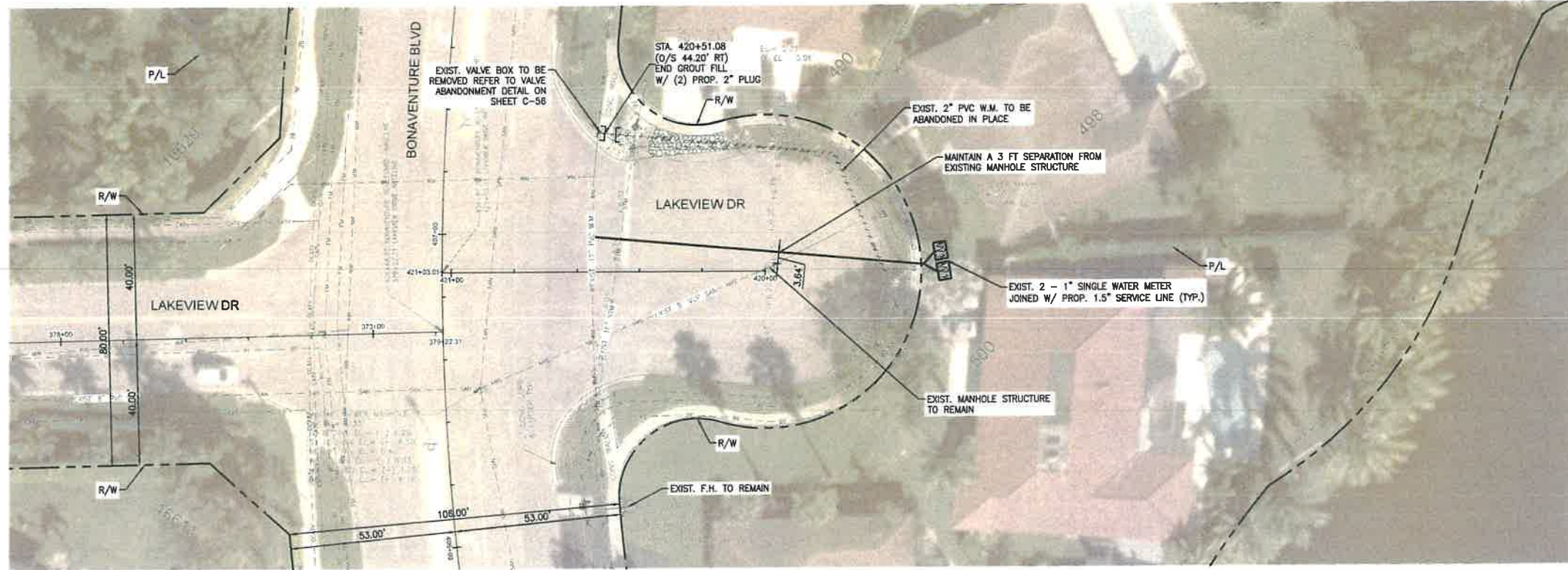
**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**  
 AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**WATER MAIN PLAN AND PROFILE**



DATE: 01/28/2021  
 DRAWING NO: C-48



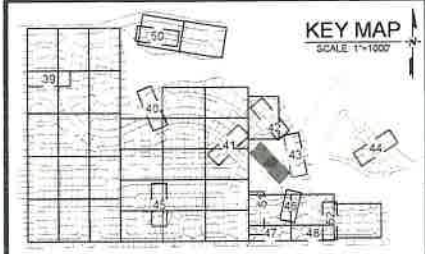


**LEGEND**

EXISTING	PROPOSED

**NOTES**

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- ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-555 OF THE FAC AS APPLICABLE.
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 CHECKED BY: S.J.R.  
 SCALE: H:1"=20'/V:1"=2'

**bcc engineering**

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**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**

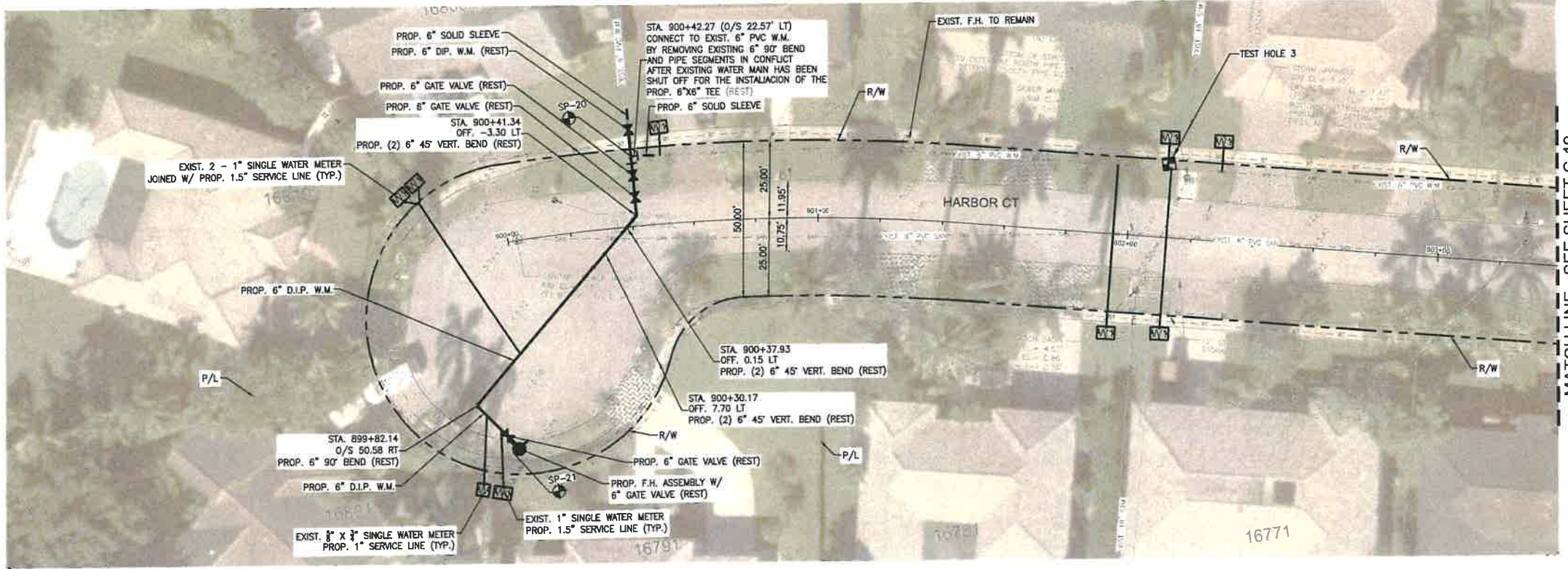
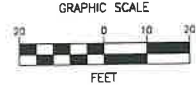
AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE

**WATER MAIN PLAN AND PROFILE**

DATE: 01/28/2021  
 DRAWING NO.: C-49





MATCH LINE - SEE SHEET C-19

**LEGEND**

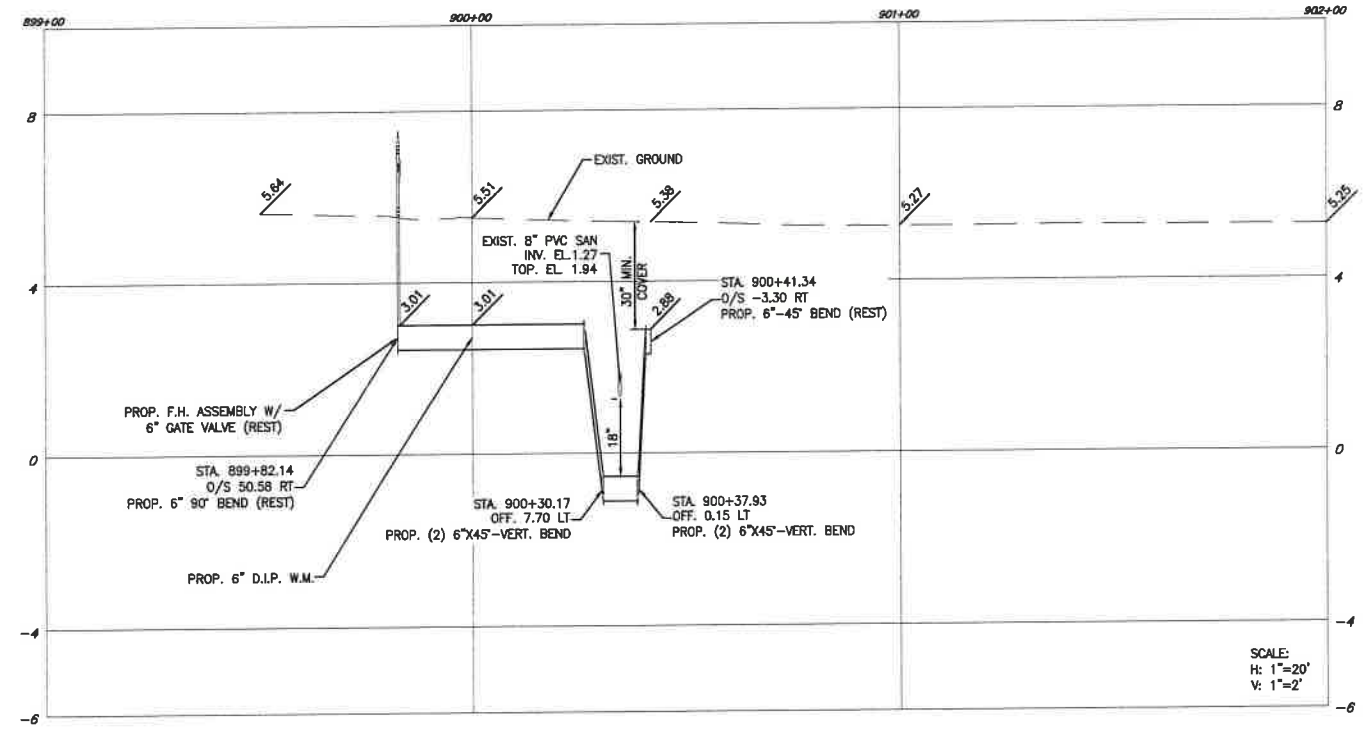
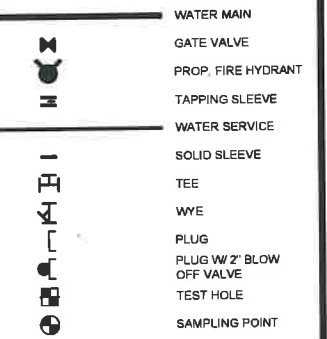
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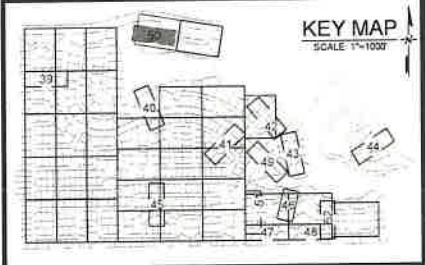
**NOTES**

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2. ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-555 OF THE FAC AS APPLICABLE.
3. RESTORE EXISTING VALVES AND MANHOLES AT PROPOSED CONNECTIONS TO CITY STANDARDS.
4. CITY OF SUNRISE DETAILS AND SPECIFICATIONS WILL GOVERN FOR WATER DISTRIBUTION INSTALLATION.
5. REPLACE EXISTING SERVICE LINES IN KIND. CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF ANY FIELD CHANGES.

**PROPOSED**



SCALE:  
H: 1"=20'  
V: 1"=2'



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**THRUST RESTRAINT NOTES**

1. ALL JOINTS BETWEEN BENDS AT HORIZONTAL & VERTICAL OFFSETS SHALL BE RESTRAINED.
2. MECHANICAL THRUST RESTRAINTS FOR D.I.P. FITTINGS ON D.I.P. PIPE SHALL BE MEGALUG AS MANUFACTURED BY EBAA IRON, INC., OR APPROVED EQUAL.
3. REFER TO SHEET C-54 FOR THRUST RESTRAINT LENGTH REQUIREMENTS.

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PLOT DATE: 1/22/2021 8:38 PM

FILE LOCATION: H:\PROJECTS\0171231.07\_BONAVENTURE\_WA\0171231.07\_CS2\_PUPR.DWG

REVISIONS		
NO.	DATE	DESCRIPTION

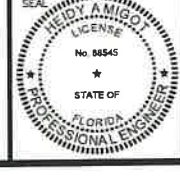
DESIGNED BY: H.A.  
DRAWN BY: H.A.  
CHECKED BY: S.J.R.  
SCALE: H: 1"=20' V: 1"=2'

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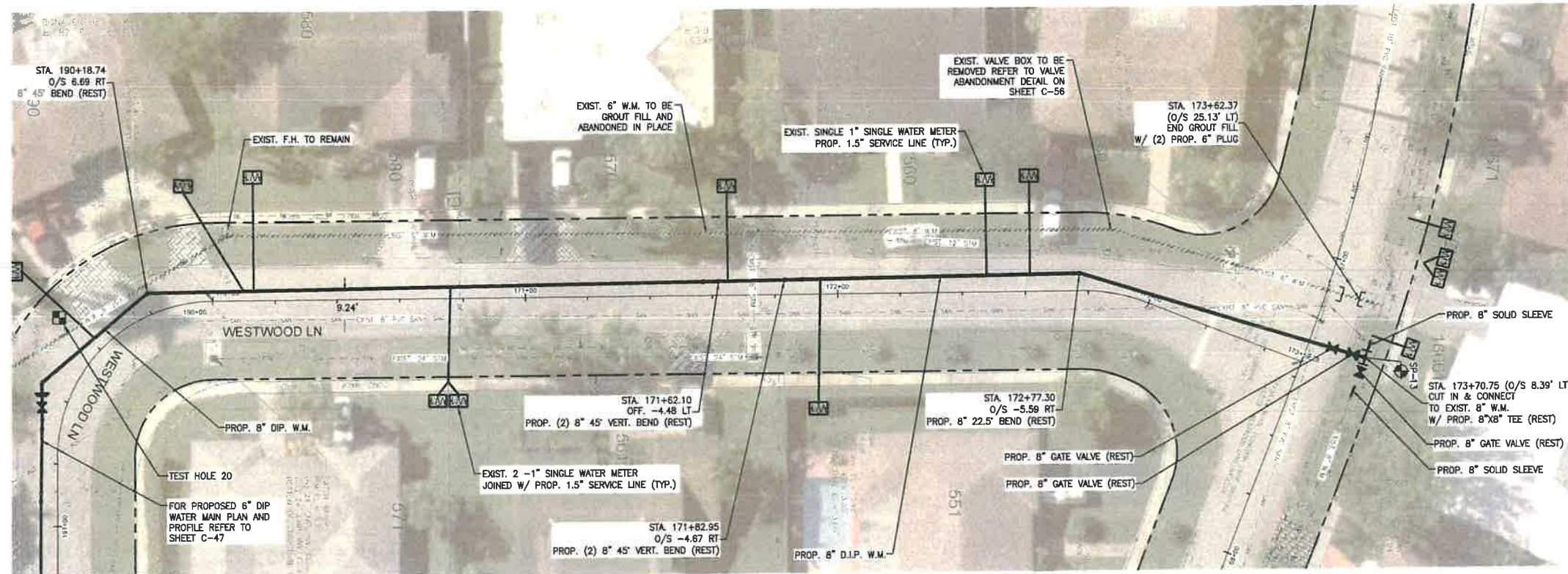
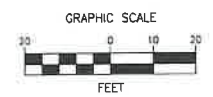
**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**  
AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**WATER MAIN PLAN AND PROFILE**



DATE: 01/28/2021  
DRAWING NO.: C-50





MATCH LINE - SEE SHEET C-19

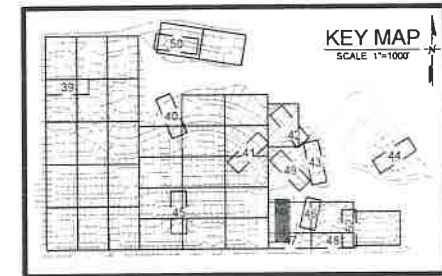
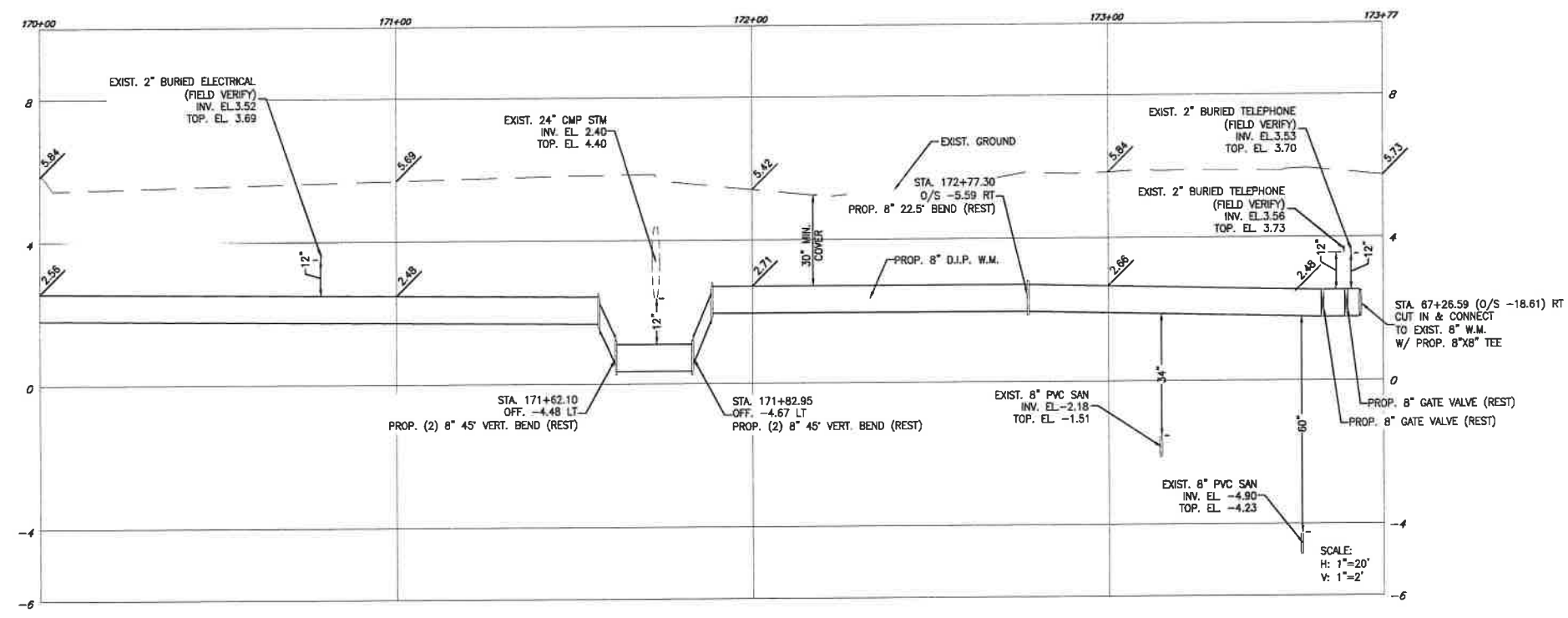
**LEGEND**

EXISTING	PROPOSED	
		EXISTING FIRE HYDRANT
		EXISTING SINGLE WATER METER
		EXISTING DOUBLE WATER METER
		EXISTING 1" WATER METER
		EXISTING 2" WATER METER
		EXISTING PLUG
		EXISTING TEST HOLE
		EXISTING SAMPLING POINT
		PROPOSED 8" SOLID SLEEVE
		PROPOSED 1" SERVICE LINE
		PROPOSED 1.5" SERVICE LINE
		PROPOSED 2" SERVICE LINE
		PROPOSED 8" GATE VALVE
		PROPOSED 8" X 8" TEE
		PROPOSED 8" X 2" BLOW OFF VALVE

**NOTES**

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MATCH LINE - SEE SHEET C-47



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**THRUST RESTRAINT NOTES**

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REVISIONS		
NO.	DATE	DESCRIPTION

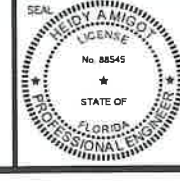
DESIGNED BY: H.A.  
 DRAWN BY: H.A.  
 CHECKED BY: S.J.R.  
 SCALE: HLT=20'/V=2'

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**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**  
 AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

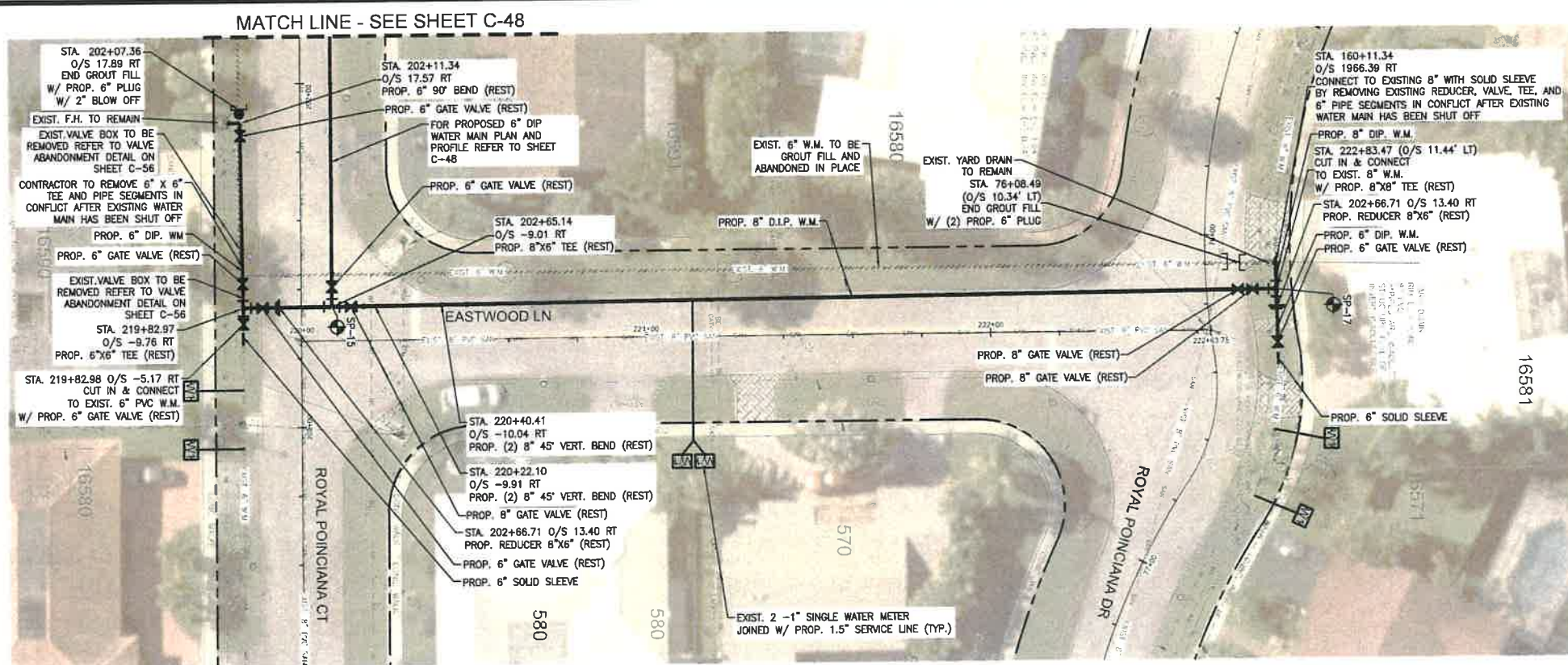
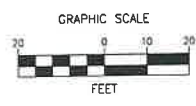
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**WATER MAIN PLAN AND PROFILE**



DATE: 01/28/2021  
 DRAWING NO.: C-51

PLOT DATE: 3/22/2021 8:43 PM FILE LOCATION: H:\PROJECTS\0171231.07\_BONAVENTURE\_WA\CAD\0171231.07\_C39-C52\_P1PR.DWG



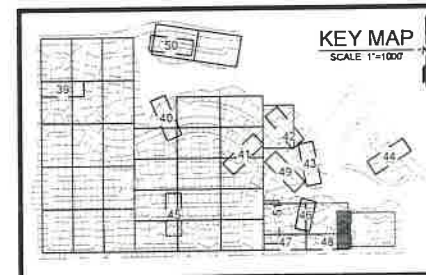
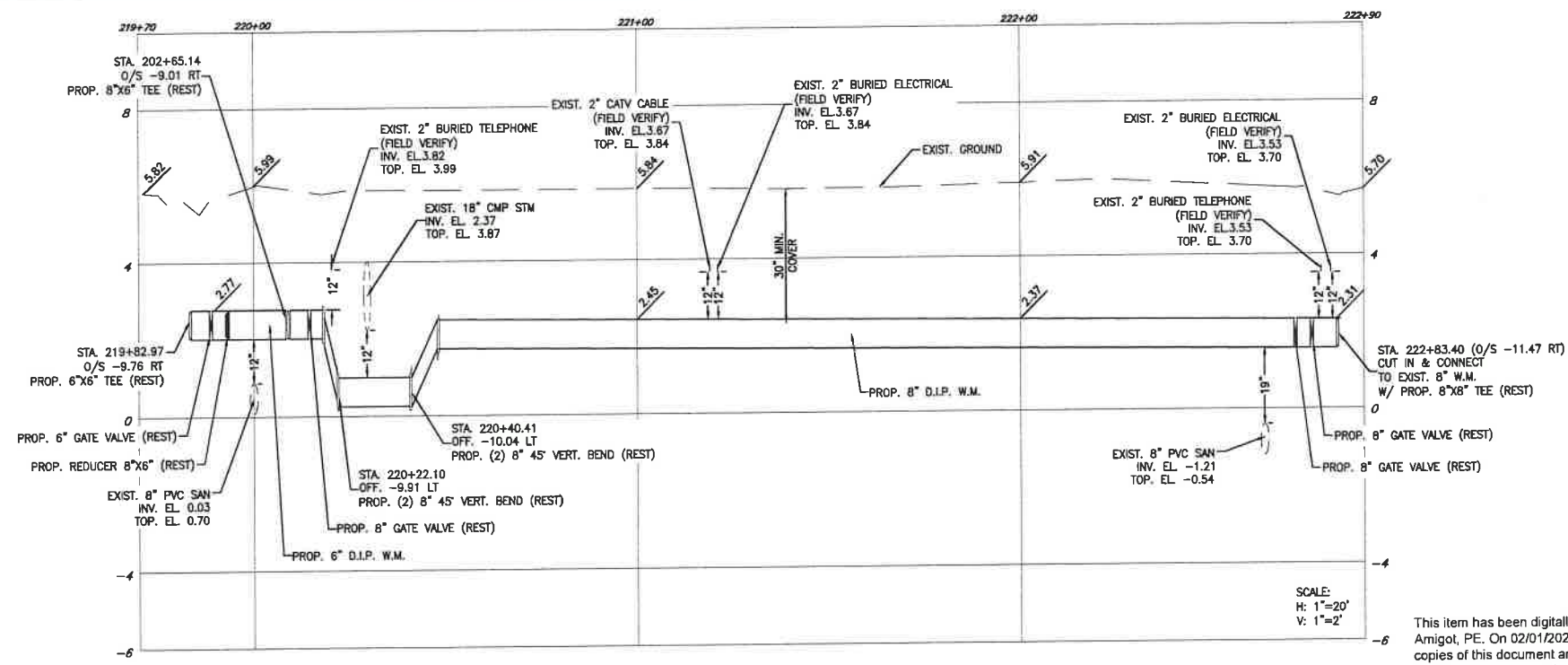


**LEGEND**

EXISTING	PROPOSED	DESCRIPTION
		EXISTING FIRE HYDRANT / WATER MAIN
		EXISTING SINGLE WATER METER / GATE VALVE
		EXISTING DOUBLE WATER METER / PROP. FIRE HYDRANT
		EXISTING 1" SINGLE WATER METER / TAPPING SLEEVE
		EXISTING 2" SINGLE WATER METER / WATER SERVICE
		EXISTING 2" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE / SOLID SLEEVE
		EXISTING 2" SINGLE WATER METER JOINED W/ PROP. 1.5" SERVICE LINE / TEE
		EXISTING WYE / WYE
		EXISTING PLUG / PLUG W/ 2" BLOW OFF VALVE
		EXISTING TEST HOLE / TEST HOLE
		EXISTING SAMPLING POINT / SAMPLING POINT

**NOTES**

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REVISIONS		
NO.	DATE	DESCRIPTION

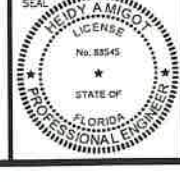
DESIGNED BY: H.A.  
 DRAWN BY: H.A.  
 CHECKED BY: S.J.R.  
 SCALE: H: 1"=20' V: 1"=2'

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**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**  
 AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**WATER MAIN PLAN AND PROFILE**



DATE: 01/28/2021  
 DRAWING NO.: C-52

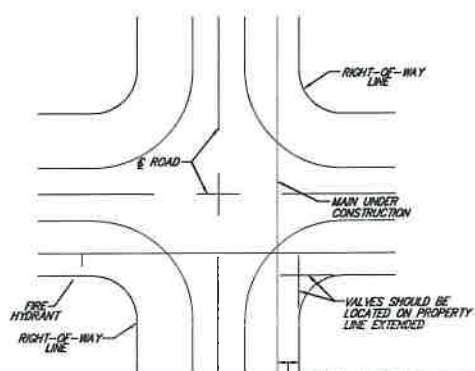
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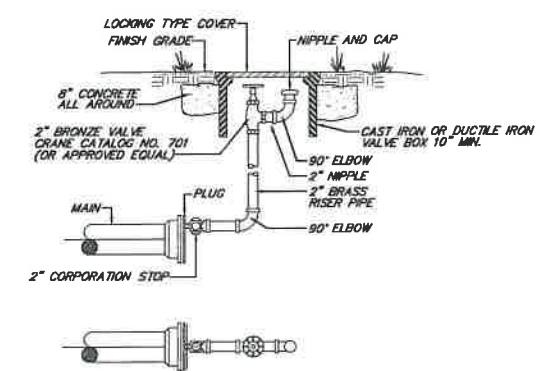
**WATER SYSTEM NOTES:**

- THE UTILITY PROVIDING WATER SERVICE TO THIS PROJECT IS THE CITY OF SUNRISE, FLORIDA.
- PVC PIPE - 4" & 6" DIAMETER MUST BE CLASS 200 - DR14. PVC PIPE - 8" TO 12" DIAMETER MUST BE CLASS 200 - DR14. ALL PVC PIPE SHALL BE INSTALLED WITH A MINIMUM .5" OF COVER. DIP PIPE - 4" & 6" DIAMETER MIN. CLASS 52. DIP PIPE - 8" AND LARGER DIAMETER MIN. CLASS 50. ALL DIP SHALL CONFORM TO THE REQUIREMENTS OF ANS/AWWA C151/A21.31-02 AND CEMENT MORTAR LINED AND SEAL COATED PER ANS/AWWA C104/A21.4-03. ALL DIP PIPE SHALL BE INSTALLED WITH A MINIMUM 30" OF COVER.
- ALL TRENCHING, PIPE-LAYING, BACKFILL, PRESSURE TESTING AND DISINFECTING MUST COMPLY WITH CITY OF SUNRISE SPECIFICATIONS.
- MINIMUM CLEARANCE BETWEEN STORM STRUCTURES AND WATER MAINS SHALL BE 2', AND MAXIMUM DEFLECTION PER EACH JOINT SHALL BE 2" WHERE DEFLECTION IS REQUIRED.
- ALL FITTINGS SHALL BE CAST IRON OR DUCTILE IRON MEETING ANS/AWWA C-110/A21.10-00 SPECIFICATIONS, WITH 250 PSI MINIMUM WORKING PRESSURE. FITTINGS MUST BE CEMENT LINED AND SEAL COATED PER ANS/AWWA C-104/A21.4-03.
- ALL CONSTRUCTION TO BE MED-A-LUG OR EQUAL RESTRAINED JOINT CONSTRUCTION TO ELIMINATE THRUST BLOCKS.
- GATE VALVES 4" AND LARGER SHALL BE RESILIENT SEAT AND SHALL MEET ANS/AWWA C-509-01 SPECIFICATIONS (LATEST REVISION). VALVES SHALL BE MUELLER OR APPROVED EQUAL.
- MIN. VALVE SPACING SHALL BE AS PER SECTION 8.2 OF THE TEN STATES STANDARDS.
- FIRE HYDRANTS SHALL BE TRAFFIC BREAKAWAY TYPE MUELLER CO. CENTURION MODEL NO. A-423 OR APPROVED EQUAL AND SHALL BE INSTALLED WITH THE CENTER OF THE HOSE NOZZLE 18" ABOVE FINISHED GRADE.
- WHEN PVC PIPE IS USED FOR WATER MAINS, A 14-GAUGE MULTISTRAND COPPER WIRE SHALL BE INSTALLED CONTINUOUSLY ALONG THE LENGTH OF THE PIPE. THE WIRE SHALL BE BROUGHT UP AND A MINIMUM OF FOUR FEET OF EXCESS WIRE SHALL BE COILED AT EACH VALVE. A GREEN LOCATOR (MODEL NO. 1253 AS MANUFACTURED BY AUTOMATION PRODUCTS CO.) SHALL BE INSTALLED AT EVERY WATER SERVICE.
- ALL CONNECTIONS TO EXISTING MAINS SHALL BE MADE UNDER THE DIRECTION OF THE CITY OF SUNRISE COMMUNITY DEVELOPMENT DEPT. - ENGINEERING INSPECTOR.
- ALL METER SERVICE CONNECTIONS SHALL BE BRONZE FROM PLUG VALVE TO PLUG VALVE. NO GATE VALVES SHALL BE USED (2" OR LESS).
- THE COMPLETE WATER SYSTEM SHALL BE HYDROSTATICALLY TESTED UNDER A MINIMUM CONSTANT PRESSURE OF 150 PSI FOR A MINIMUM 2 HOURS TEST AND SHALL NOT EXCEED THE LEAKAGE REQUIREMENTS AS PER ANS/AWWA SPECIFICATIONS OF C600-05 IN ACCORDANCE WITH THE FOLLOWING LEAKAGE FORMULA:  
$$L = \frac{SD \cdot P^{1/2}}{148,000}$$
 WHERE L = ALLOWABLE LEAKAGE IN GPH  
D = NOMINAL PIPE DIAMETER IN INCHES  
S = LENGTH OF PIPE IN FEET  
P = AVERAGE TEST PRESSURE IN PSI
- DISINFECTION OF WATER MAINS SHALL COMPLY WITH ANS/AWWA C-651-05 STANDARD BACTERIOLOGICAL SAMPLING POINTS ARE SHOWN ON THE PLANS. THE CITY OF SUNRISE UTILITIES DEPARTMENT WILL TAKE ALL BACTERIOLOGICAL SAMPLES (PHONE 554-888-8062). BACTERIOLOGICAL TESTS TAKEN MORE THAN 15 DAYS PRIOR TO ACCEPTANCE BY THE ENGINEER OF THE AS-BUILT DRAWINGS, SHALL BE RETAINED AT THE CONTRACTOR'S EXPENSE. SAMPLES SHALL BE GOOD FOR 60 DAYS. BACTERIOLOGICAL REPORTS MUST BE ON FILE AT THE CITY PRIOR TO RELEASE OF THE WATER METER.
- THE CONTRACTOR SHALL SUPPLY AND INSTALL APPROVED BLUE REFLECTIVE MARKERS IN THE CENTER OF THE STREET DRIVING LANE ADJACENT TO ALL FIRE HYDRANTS.
- WATER SERVICE PIPING SHALL BE POLYETHYLENE (P.E. 3408) WATER SERVICE TUBING CONFORMING TO ASTM D-1248 AND D-2737 WITH SDR-3.
- PAVEMENT RESTORATION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- ALL WATER MAIN PIPE COLORING SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-555.320(2)(K), F.A.C.



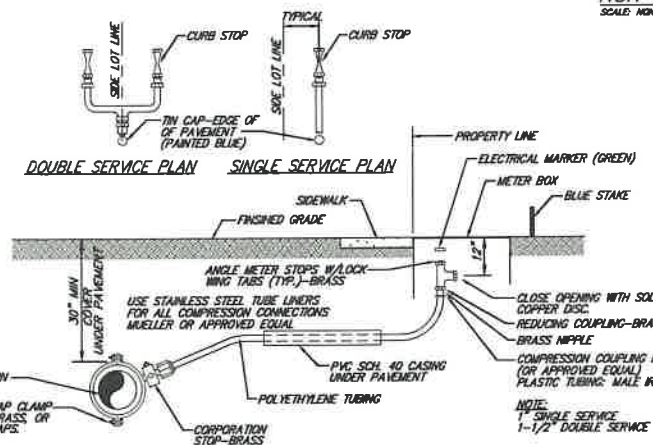
- NOTES:**
- VALVES SHALL BE LOCATED SO THAT ONLY 3 VALVES ARE REQUIRED TO ISOLATE ANY 2 RESIDENTIAL OR 1 COMMERCIAL BLOCK.
  - VALVE SPACING ON WATER MAINS SHALL NOT EXCEED 1000 FEET MAX.
  - FIRE HYDRANT LOCATIONS SHALL BE IN ACCORDANCE WITH CITY FIRE DEPARTMENT REQUIREMENTS.
  - WHEN NEW ROADWAY OR FACILITY IMPROVEMENTS ARE CONSTRUCTED OVER EXISTING ASBESTOS CEMENT PIPE (ACP), THE ENGINEER OF RECORD FOR THE NEW IMPROVEMENT SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE ACP AND SHALL UNDER SEAL, CERTIFY TO THE ADEQUACY OF THE DESIGN AND TO THE CONTINUOUS USE OF THE EXISTING ACP AT SUCH ROADWAY OR FACILITY INSTALLATION.

**VALVE AND FIRE HYDRANT LOCATION**  
SCALE: NONE

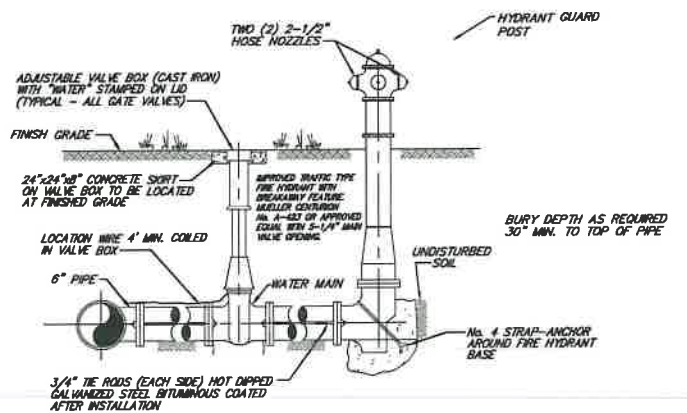


- NOTES:**
- PIPE JOINT COMPOUND SHALL BE APPLIED TO MALE THREADS ONLY.
  - COAT ALL EXPOSED THREADS WITH BITUMASTIC BEFORE BACKFILLING.
  - 2" TAP IN BOTTOM OF PLUG.
  - PLYWOOD AND CONCRETE TO HAVE A HEIGHT EQUAL TO THE DIAMETER OF THE PIPE.
  - ALL FITTINGS SHALL BE BRASS.

**2" TERMINAL BLOW OFF**  
SCALE: NONE

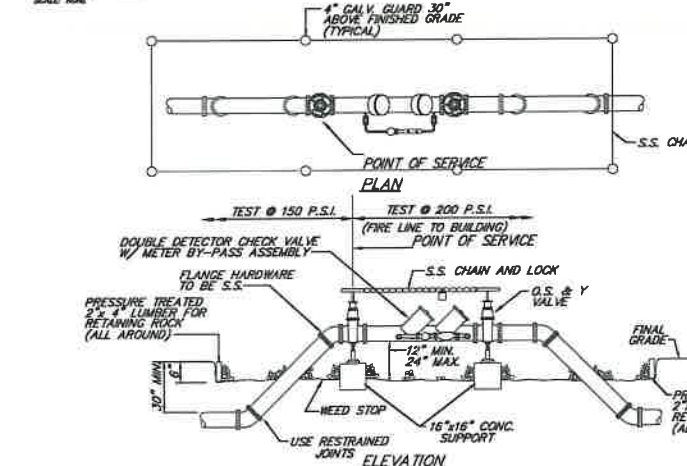


**TYPICAL WATER SERVICE**  
NOTE: FOR 1-1/2" SERVICE OR LARGER, PROVIDE FLANGED END FOR METER CONNECTION



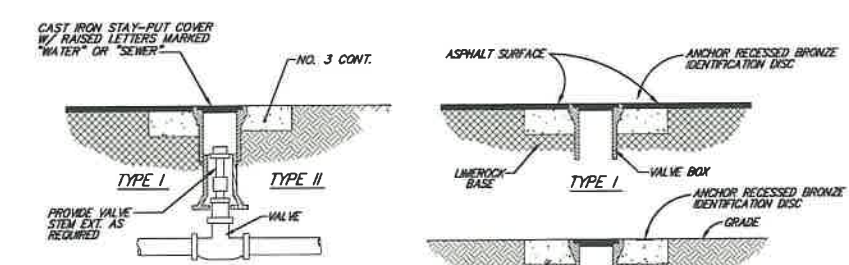
- NOTE:**
- ALL EXTERIOR SURFACES OF THE FIRE HYDRANT MUST BE COATED WITH RUST-O-LEUM PRIMER No. 769 DAMP-PROOF RED, THEN PAINTED RUST-O-LEUM YELLOW GUARDPOSTS TO BE INSTALLED AS REQUIRED FOR SAFETY OR AS APPROVED BY THE CITY OF SUNRISE. WHEN REQUIRED, THERE SHALL BE 4 GUARDPOSTS MAX. AND SHALL BE 4" GALV. STEEL PIPE FILLED WITH CONCRETE. THEY ARE TO HAVE A MIN. 12" X 12" CONCRETE BASE USING 3000 PSI CONCRETE.

**FIRE HYDRANT INSTALLATION**  
SCALE: NONE



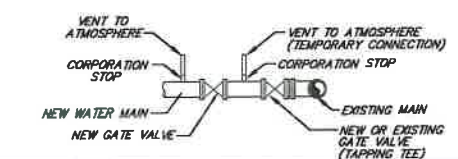
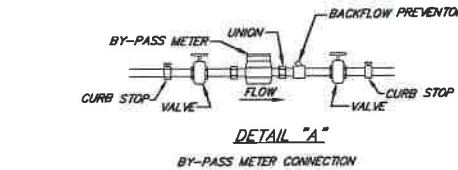
- NOTES:**
- ALL PIPING SHALL BE D.I.P. CL 50/S2 AS APPLICABLE TO MINIMUM STANDARDS.
  - ALL LOW FLOW METER PIPING SHALL BE BRASS OR COPPER.
  - PROTECTIVE 4" GALV. GUARD POSTS SHALL BE SPACED EVENLY APART AS SHOWN ABOVE OR IN ACCORDANCE WITH INSPECTOR'S DIRECTIONS. CHAIN SHALL BE LOOPED THROUGH EYELETS CAST IN CONCRETE TOP.
  - PIPING AND ASSEMBLY SHALL BE PAINTED WITH LINEAR POLYURETHANE SYSTEM.
  - USE 45° BENDS WHEN WORKING AREA IS NOT LIMITED.

**NON-TRAFFIC BACKFLOW PREVENTION DOUBLE CHECK VALVE**  
SCALE: NONE



- NOTES:**
- IF VALVE EXTENSIONS ARE USED, THEY MUST BE CAST IRON OR OF DUCTILE IRON PIPE.
  - VALVE EXTENSION MUST HAVE SCREW TO PREVENT REMOVAL OF EXTENSION (AS APPLICABLE). CENTERING RING MUST BE PROVIDED.
  - IF A VALVE BOX EXTENSION IS REQUIRED, IT MUST BE EITHER PVC C900 OR DIP. NO SDR 35 IS PERMITTED.

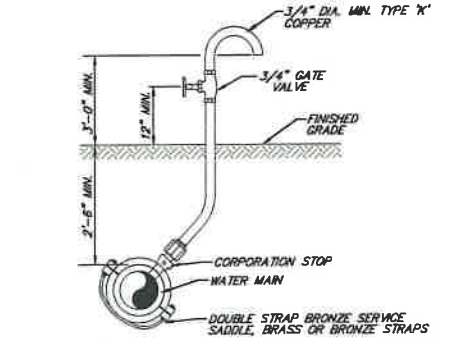
**VALVE BOX DETAIL**  
SCALE: NONE



- NOTES:**
- WATER MAIN TO BE PRESSURE TESTED AND STERILIZED ACCORDING TO CITY OF SUNRISE SPECIFICATIONS.
  - BACTERIOLOGICAL TESTS ARE TO BE PERFORMED BY THE CITY OF SUNRISE.
  - DO NOT REMOVE TEMPORARY CONNECTION UNTIL ALL TESTING HAS BEEN COMPLETED.
  - ALL CORPORATION STOPS SHALL BE PLUGGED AFTER BACTERIOLOGICAL TESTS ARE APPROVED.

**FILLING AND FLUSHING CONNECTION**  
SCALE: NONE

A CORPORATION STOP SHALL BE INSTALLED WITH A LENGTH OF COPPER TUBING EXTENDING ABOVE THE GROUND. THE TUBING SHALL BE INSTALLED WITH A 180° BEND.



- NOTE:**
- SAMPLING POINTS SHALL BE LOCATED AND LATER REMOVED AS REQUIRED BY HEALTH DEPARTMENT. CORPORATION STOP SHALL BE REMOVED AND SADDLE PLUGGED WITH A BRASS FITTING.

**TYPICAL BACTERIOLOGICAL SAMPLING POINT AT INTERMEDIATE POINTS**  
SCALE: NONE

PLT DATE: 1/27/2021 8:36 PM

FILE LOCATION: H:\PROJECTS\0171231.07 BONAVENTURE WATERMAIN\0171231.07\_C03\_C55\_DET.DWG

REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY: H.A.  
DRAWN BY: H.A.  
CHECKED BY: S.J.R.  
SCALE: N/A



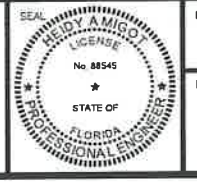
6401 SW 87th Ave, Ste. 200  
Miami, Florida 33173  
Tel: 305.670.2350 Fax: 305.670.2351  
www.bcceng.com  
Certificate of Authorization No. 7184



**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**  
AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE

**WATER MAIN DETAILS**  
CITY OF SUNRISE



DATE: 01/28/2021  
DRAWING NO: C-53

48 HOURS BEFORE DIGGING  
BROWARD • PALM BEACH • INDIAN RIVER  
ST. LUCE • MARTIN COUNTIES  
CALL TOLL FREE  
1-800-432-4173  
SUNSHINE STATE 1 CALL  
UNDERGROUND UTILITIES  
NOTIFICATION CENTER

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GENERAL NOTES FOR WATER AND SEWER

- 1. ALL APPLICABLE PERMITS MUST BE OBTAINED AND ALL APPLICABLE FEES AND CHARGES MUST BE PAID PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. A PRE-CONSTRUCTION MEETING SHALL BE HELD WITH THE CITY OF SUNRISE PLANNING & DEVELOPMENT DEPT. ATTENDED BY THE CONTRACTOR, DEVELOPER'S ENGINEER, AND OTHER INTERESTED PARTIES PRIOR TO ISSUANCE OF ANY CONSTRUCTION PERMITS.
3. THE CONTRACTOR SHALL MAINTAIN AT ALL TIMES ON THE SITE A CURRENT SET OF APPROVED CONSTRUCTION PLANS AS APPROVED BY THE CONTRACTOR, DEVELOPER'S ENGINEER, AND OTHER INTERESTED PARTIES PRIOR TO ISSUANCE OF ANY CONSTRUCTION PERMITS.

WHERE SANITARY SEWERS OR FORCE MAINS CROSS UNDER WATER MAINS WHENEVER POSSIBLE, SANITARY SEWERS AND FORCE MAINS SHALL CROSS UNDER WATER MAINS WITH LESS THAN 18 INCHES VERTICAL CLEARANCE. BOTH THE SEWER AND THE WATER MAIN SHALL BE MECHANICALLY RESTRAINED TO ACHIEVE THE REQUIRED CLEARANCE. THE MINIMUM VERTICAL CLEARANCE OF 12 INCHES MUST BE MAINTAINED AT ALL CROSSINGS.

ALL CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER PIPE AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (PIPES CENTERED ON THE CROSSING).

WHERE A NEW PIPE CONFLICTS WITH AN EXISTING PIPE WITH LESS THAN 18 INCHES VERTICAL CLEARANCE, THE PIPE SHALL BE ARRANGED TO MEET THE CROSSING REQUIREMENTS ABOVE.

A MINIMUM OF 10-FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE.

IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.

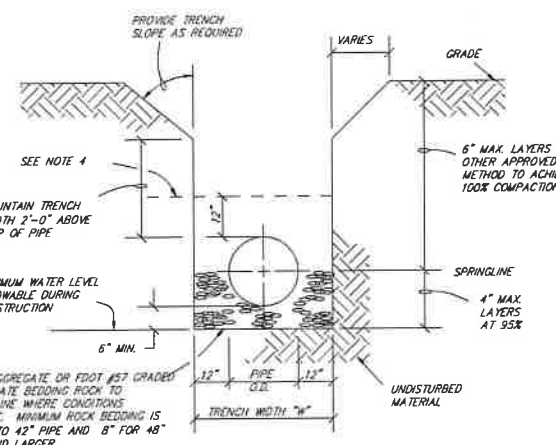
WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18 INCHES IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SANITARY SEWER OF THE FORCE MAIN SHALL BE CONSTRUCTED OF DIP WITH A MINIMUM VERTICAL SEPARATION OF 6 INCHES. THE WATER MAIN SHOULD ALWAYS BE ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWER OR FORCE MAIN (STAGGERED JOINTS).

NO DEVIATION FROM APPROVED PLANS SHALL BE PERMITTED WITHOUT THE WRITTEN CONSENT OF THE CITY ENGINEER.

CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THESE PLANS WITH ANY PAVING AND DRAINAGE PLANS IN THIS AREA.

THE FOLLOWING DOCUMENTS ARE TO BE ON FILE AT THE OFFICE OF THE CITY ENGINEER PRIOR TO THE CONNECTION OF THE FIRST WATER METER.

- A. FINAL ENGINEERING PLANS APPROVED BY THE CITY OF SUNRISE COMMUNITY DEVELOPMENT DEPARTMENT.
B. LETTERS OF ACCEPTANCE FROM:
- BROWARD COUNTY HEALTH DEPARTMENT
- BROWARD COUNTY DEPT. - WASTEWATER LICENSING SECTION / FLORIDA DEPT. OF ENVIRONMENTAL PROTECTION (FDEP)
C. COPIES OF BACTERIOLOGICAL REPORTS STAMPED BY THE HEALTH DEPARTMENT.
D. CERTIFICATION OF ENGINEER OF RECORD.
E. LETTER FROM DEVELOPER STATING ACTUAL COST OF CONSTRUCTION.
F. LETTER FROM DEVELOPER STATING THAT NO LIENS HAVE BEEN FILED RELATING TO INSTALLATION OF UTILITIES.
G. BILL OF SALE ABSOLUTE FOR SYSTEM.
H. GRANT OF EASEMENT OR LETTER STATING THAT EASEMENTS ARE ON THE PLAN.
I. LETTER FROM DEVELOPER COMMITTING TO RECORDATION OF APPROPRIATE DOCUMENTS WITHIN 90 DAYS.
J. ADDRESS PLAN OF PROJECT.
K. FIVE (5) SIGNED AND SEALED COPIES OF AS-BUILTS CERTIFIED BY A LAND SURVEYOR AND ENGINEER REGISTERED IN THE STATE OF FLORIDA, AND ONE COPY OF AS-BUILTS ON 3.5" DISK(S) IN AUTOCAD (RELEASE 12 OR HIGHER).
L. FINAL INSPECTION VERIFICATION BY CITY OF SUNRISE ENGINEERING INSPECTOR.
M. TEMPORARY METER REMOVAL LETTER.
N. ALL INSTALLATIONS WITHIN BROWARD COUNTY RIGHT-OF-WAY SHALL BE IN CONFORMANCE WITH THE BROWARD COUNTY ENGINEERING DIVISION "MINIMUM STANDARDS".

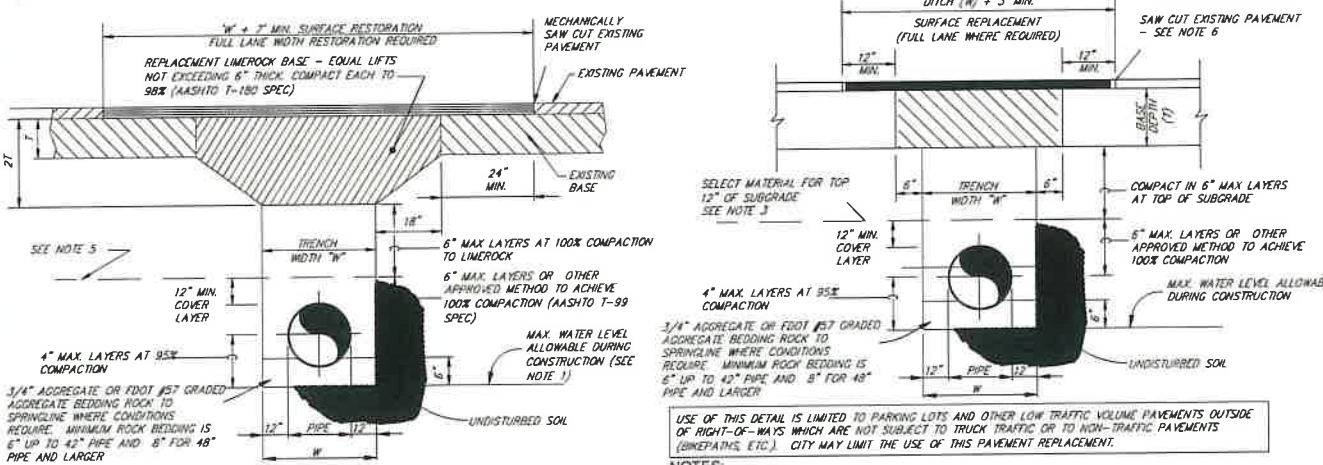


TRENCH CONSTRUCTION NOTES

- 1. WHERE SOIL CONDITIONS CANNOT BE MAINTAINED AS SHOWN ABOVE, THE CONTRACTOR SHALL PROVIDE HIS ALTERNATE PLAN FOR TRENCH CONSTRUCTION TO THE ENGINEER OF RECORD AND THE CITY FOR APPROVAL.
2. SHEETING REQUIREMENTS WILL BE DETERMINED IN THE FIELD. SEE PROJECT SPECIFICATIONS.
3. COMPACTION PERCENTAGES REFER TO AASHTO T-99 STANDARD PROCTOR.
4. MECHANICAL COMPACTION NOT ALLOWED BELOW 12" ABOVE THE PIPE.
5. PVC AND HDPE PIPE TO HAVE ROCK BACKFILL TO PIPE SPRINGLINE AND SAND OR AGGREGATE BEDDING AND/OR ENVELOPE AS REQUIRED IN AREAS WHERE TRENCH BACKFILL IS NOT SUITABLE DUE TO ROCK. ENVELOPE TO BE MIN. 12 INCHES AROUND THE PIPE.
6. MAINTAIN TRENCH WALL PER OSHA REQUIREMENTS AND STATE OF FLORIDA TRENCH SAFETY ACT.

TRENCH CONSTRUCTION DETAIL

SCALE: NONE



TRENCH & RESTORATION NOTES:

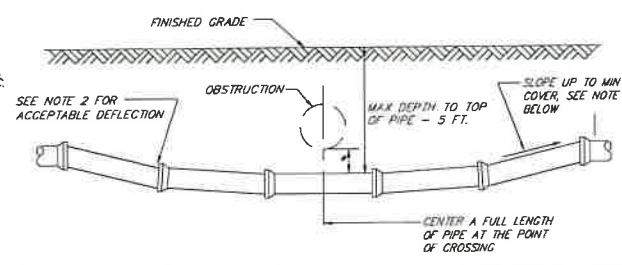
- 1. WHERE SOIL CONDITIONS CANNOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE APPROVED METHOD OF CONSTRUCTION.
2. SHEETING WILL BE REQUIRED AS DETERMINED IN THE FIELD.
3. NEW SURFACING MATERIALS SHALL BE CONSISTENT WITH EXISTING AND SHALL HAVE LAPPED AND FEATHERED JOINTS. (2" MIN. THICKNESS)
4. ALL ROADWAY RESTORATION SHALL COMPLY WITH THE CITY OF SUNRISE REQUIREMENTS OR OTHER JURISDICTIONAL AUTHORITIES WHERE APPLICABLE.
5. MECHANICAL COMPACTION NOT ALLOWED BELOW THIS LINE.
6. BACKFILL COMPACTION SHALL BE IN ACCORDANCE WITH CITY OF SUNRISE STANDARDS. COMPACTION PERCENTAGES FOR BACKFILL REFER TO AASHTO T-99 STANDARD PROCTOR. COMPACTION PERCENTAGES FOR ROCK BASE REFER TO AASHTO T-180 MODIFIED PROCTOR SPEC.
7. SURFACE RESTORATION WIDTH MAY BE ADJUSTED BY THE CITY.
8. FULL LANE RESTORATION REQUIRED. EXISTING PAVEMENT TO BE MILLED 1" MINIMUM OR REMOVED TO BASE ROCK OUTSIDE THE TRENCH AREA.
9. MAINTAIN TRENCH WALL PER OSHA REQUIREMENTS AND STATE OF FLORIDA TRENCH SAFETY ACT.

TYPE 1 - TRENCH AND PAVEMENT RESTORATION

SCALE: NONE

TYPE 2 - TRENCH AND PAVEMENT RESTORATION (LIMITED AREAS)

SCALE: NONE



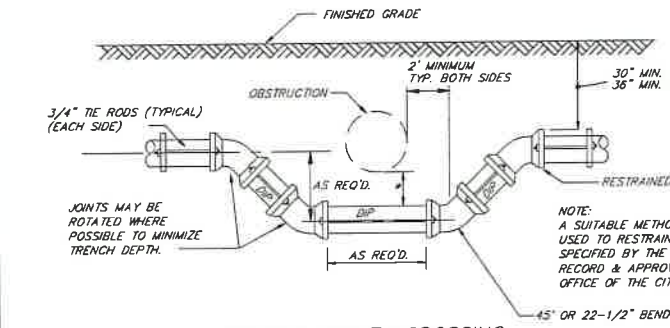
STANDARD SHALLOW UTILITY CROSSING - DEFLECTION TYPE

Thrust Restraint

- 1. All bends, tees, crosses, reducers, and dead ends shall be restrained through an approved means of mechanical joint restraint using MEGALUGS and all thread rods. All branch valves shall be restrained with MEGALUGS and all thread rods. Any line terminated as a construction phase that is a known future extension, shall have a plugged valve at the end and restrained with MEGALUGS and all thread rods.
2. All bends, tees, crosses, reducers, and dead ends for 16" diameter pipe and larger shall have mechanical joints with MEGALUGS and all thread rods or approved equal for restraint in lieu of thrust blocks.
3. The following table shall serve as a general guide only. It is the Engineer of Record's responsibility to correctly design and specify the minimum lengths of restrained pipe considering the existing soil compaction and pipe laying conditions. The minimum test pressure shall be 150 psi with a 2.5 safety factor.

Table with columns: Pipe Diameter, Full Thrust Conditions (90° Elbow, 45° Elbow, 22-1/2° Elbow, 11-1/4° Elbow, Dead Ends), and values for different pipe diameters (4", 6", 8", 10", 12", 16").

\*\* L = ONE PIPE LENGTH (20 FEET)



SPECIAL UTILITY CROSSING

NOTES:

- 1. THE DEFLECTION TYPE CROSSING SHALL BE USED WHENEVER POSSIBLE ONLY UNDER SPECIFIC ORDERS BY THE ENGINEER. THE FITTING TYPE CROSSING BE ALLOWED.
2. CONSTRUCT STANDARDS CROSSING USING 75% OF MANUFACTURER'S MAXIMUM JOINT DEFLECTION (MAX).

- 1. COAT THE RODS WITH A BITUMINOUS COATING (2 COATS MIN.) AFTER INSTALLATION WHEN THE RODS ARE USED FOR PIPE RESTRAINT.
4. CITY OF SUNRISE ENGINEERING INSPECTOR SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF ALL DEFLECTION OPERATIONS.

\* 18" MIN. CLEARANCE REQUIRED FOR WATER AND SEWER MAIN CROSSING. 12" MIN. CLEARANCE REQUIRED FOR OTHER TYPE UTILITIES CROSSING. ENCASEMENT IN CONCRETE IS NOT PERMITTED

UTILITY CROSSINGS

SCALE: NONE

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48 HOURS BEFORE DIGGING BROWARD PALM BEACH AND INDIAN RIVER ST. LUCIE AND MARTIN COUNTIES CALL TOLL FREE 1-800-432-4770 SUNSHINE STATE 1 CALL UNDERGROUND UTILITIES NOTIFICATION CENTER

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FILE LOCATION: \\PROJECTS\0171231\07 BONNAVENTURE WATER\0171231\07\_0531-0536\_DET1.DWG

REVISIONS table with columns: NO., DATE, DESCRIPTION

DESIGNED BY: HA
DRAWN BY: HA
CHECKED BY: S.J.R.
SCALE: N/A

BCC engineering logo and address: 6401 SW 87th Ave, Ste. 200 Miami, Florida 33173. Tel: 305.670.2350 Fax: 305.670.2351 www.bcceng.com Certificate of Authorization No. 7184

CITY OF SUNRISE FLORIDA logo

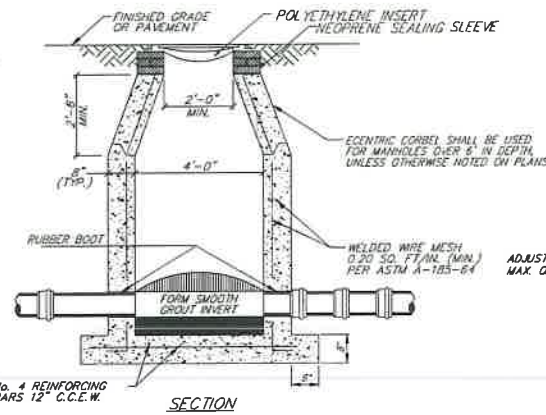
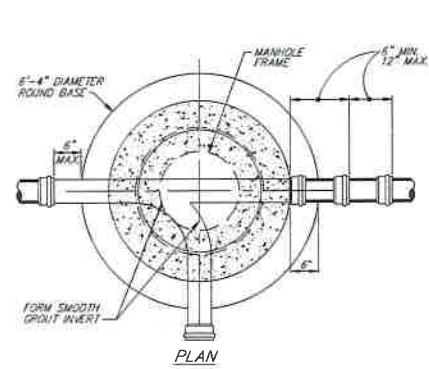
BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS
AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE: WATER MAIN DETAILS CITY OF SUNRISE

Professional Engineer Seal for Heidi Amigot, State of Florida, License No. 8845

DATE: 01/28/2021
DRAWING NO.: C-54

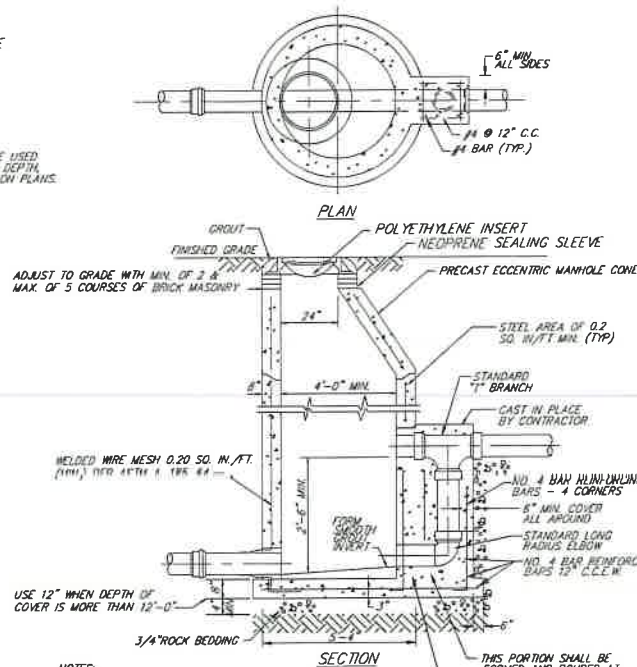




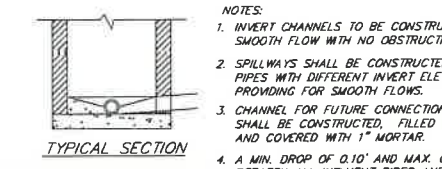
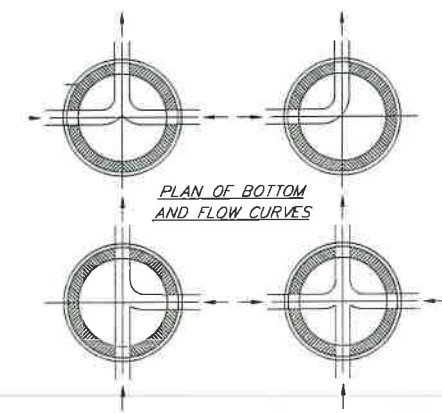
- NOTES:**
- MANHOLE FRAME AND COVER SHALL BE CAST IN 4700 PSI COVER SHALL HAVE RAISED LETTERS "SANITARY SEWER" AND "CITY OF SUNRISE".
  - PRECAST MANHOLE SHALL CONFORM TO ASTM SPEC. C-478, LATEST REVISION.
  - MIN. OF 2 OR MAX. 5 COURSES OF 8" BRICK TO ADJUST MANHOLE FRAME TO FINISHED GRADE.
  - ALL OUTSIDE SURFACES OF MANHOLES SHALL BE FULLY COATED WITH A MIN. OF 8 MILS OF KOPPER'S 300M OR APPROVED EQUAL. ALL INTERIOR SURFACES OF MANHOLES SHALL HAVE MAINSTAY COATING AS FOLLOWS:
    - 1/2" MIN. SPRAY APPLICATION OF MAINSTAY ML-72, MICROSLICA CEMENT MORTAR OR APPROVED EQUAL.
    - A MIN. APPLICATION OF 100 MIL. SPRAY APPLICATION OF MAINSTAY DS-5, ULTRA HIGH BUILD EPOXY COATING OR APPROVED EQUAL.
  - ALL CONCRETE USED IN MANHOLE CONSTRUCTION SHALL HAVE TYPE II CEMENT.
  - STEEL SHALL BE GRADE 40 PER ASTM A-615.
  - BASE SHALL BE POURED MONOLITHICALLY WITH MANHOLE WALL.
  - MINIMUM COVER FOR REINFORCING STEEL SHALL BE 3".
  - IF LIFTING PINS ARE USED, HOLES SHALL BE COMPLETELY FILLED WITH NON-SHRINK GROUT.

**SHALLOW MANHOLE**

SCALE: NONE

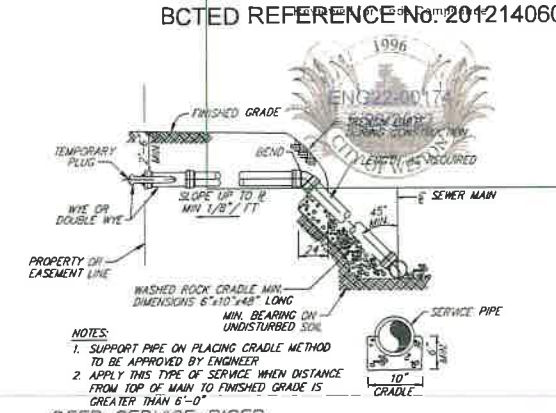


- NOTES:**
- CONCRETE ENCASMENT FOR DROP CONNECTION TO BE POURED INTEGRALLY WITH BOTH MANHOLE SLAB AND WALL (UP TO ELBOW).
  - DROP CONNECTION SHALL BE REQUIRED WHENEVER AN INFLUENT SEWER IS LOCATED 2'-6" OR MORE ABOVE THE MAIN INVERT CHANNEL.
  - A FLOW CHANNEL SHALL BE CONSTRUCTED INSIDE MANHOLE TO DIRECT INFLUENT INTO FLOW STREAM.
  - WHEN PVC IS USED IN SANITARY SEWER LINES, SOLVENT TYPE JOINT PVC FITTINGS MAY BE UTILIZED IN THE DROP ASSEMBLY ONLY.
- TYPE "A" DROP MANHOLE (OVER 2'-6")**
- SCALE: NONE



**INVERT CHANNEL FLOW DIRECTIONS**

SCALE: NONE



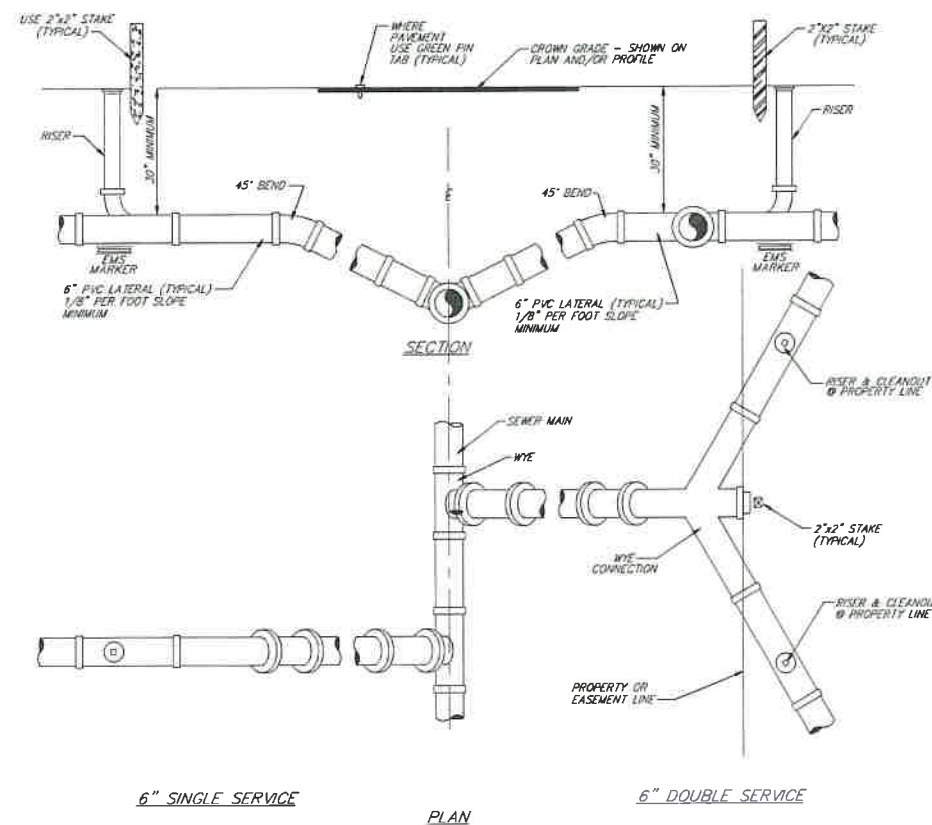
**DEEP SERVICE RISER**

SCALE: NONE

**SANITARY SEWER SYSTEM NOTES**

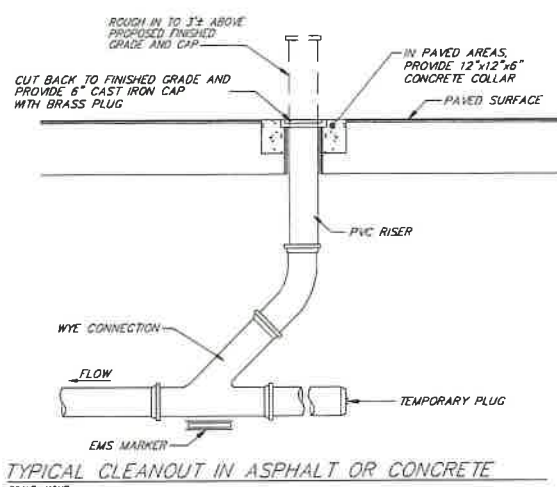
- THE UTILITY PROVIDING SEWER SERVICE TO THIS PROJECT IS THE CITY OF SUNRISE, FLORIDA.
- PRECAST CONCRETE MANHOLES SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-478 AND 84. ALL PRECAST MANHOLES SHALL BEAR THE STAMP OF A CERTIFIED ENGINEERING TESTING LABORATORY, SIGNED AND DATED, CERTIFYING THAT THEY MEET THE REQUIREMENTS OF ASTM C-478 FOR CONCRETE STRENGTH, STEEL REINFORCEMENT AREA AND PLACEMENT, AND APPEARANCE WHEN MANUFACTURED. MANHOLES MUST BE INSPECTED BY THE CITY BEFORE UNLOADING.
- MINIMUM WALL AND BASE THICKNESS FOR PRECAST MANHOLES SHALL BE 8 INCHES. BASE SECTIONS SHALL BE MONOLITHIC.
- CONCRETE FOR PRECAST MANHOLES OR CAST IN PLACE MANHOLES SHALL HAVE NOT LESS THAN 4000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. CEMENT SHALL BE TYPE II ACID RESISTANT.
- REINFORCING STEEL FOR MANHOLES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-615 AND A-305, LATEST REVISION. SPLICES SHALL HAVE A MINIMUM LAP OF 24 BAR DIAMETERS. MINIMUM COVER OVER REINFORCING STEEL SHALL BE 3 INCHES. GRADE 60 STEEL SHALL BE USED FOR THE TOP AND BOTTOM SLABS.
- ALL OPENINGS IN PRECAST MANHOLES SHALL BE CAST AT THE TIME OF MANUFACTURE.
- PRECAST MANHOLE SHOP DRAWINGS SHALL BE SUBMITTED TO THE CITY OF SUNRISE AND TO THE DEVELOPER'S ENGINEER AND APPROVED PRIOR TO FABRICATION.
- ALL OUTSIDE SURFACES OF MANHOLES, WETWELLS AND VALVE PITS SHALL BE FULLY COATED WITH A MIN. OF 8 MILS OF KOPPER'S 300M OR APPROVED EQUAL. ALL INTERIOR SURFACES OF MANHOLES, WETWELLS AND VALVE PITS SHALL HAVE MAINSTAY COATING AS FOLLOWS:
  - 1/2" MIN. SPRAY APPLICATION OF MAINSTAY ML-72, MICROSLICA CEMENT MORTAR OR APPROVED EQUAL.
  - A MIN. APPLICATION OF 100 MIL. SPRAY APPLICATION OF MAINSTAY DS-5, ULTRA HIGH BUILD EPOXY COATING OR APPROVED EQUAL.
- ALL MANHOLES SHALL BE SET PLUMB TO LINE AND GRADE AND SHALL REST ON A FIRM, CAREFULLY GRADED SUBGRADE, WHICH SHALL PROVIDE UNIFORM BEARING UNDER THE BASE.
- MANHOLE SECTIONS SHALL BE JOINED WITH A MASTIC COMPOUND PROVIDING A WATER TIGHT BOND. THE REMAINING SPACE SHALL BE FILLED WITH CEMENT MORTAR AND FINISHED SO AS TO PRODUCE A SMOOTH CONTINUOUS SURFACE INSIDE AND OUTSIDE THE WALL SECTIONS. ALL EXTERIOR MANHOLE JOINTS SHALL THEN BE SEALED WITH A NEOPRENE SLEEVE, AS MANUFACTURED BY INFISHIELD, INC., OR APPROVED EQUAL.
- ALL CONCRETE AND MORTAR USED IN MANHOLE CONSTRUCTION SHALL HAVE TYPE II CEMENT.
- ALL SPACES AROUND PIPES ENTERING OR LEAVING MANHOLES SHALL BE COMPLETELY FILLED WITH EMBECCO MORTAR (NON-METALLIC) OR BOWSAL (NON-SHRINKING).
- SANITARY MANHOLES AND LIDS SHALL BE CAPABLE OF WITHSTANDING AASHTO H-20 LOADING. THE WORDS "CITY OF SUNRISE" SHALL BE CAST INTO ALL SANITARY MANHOLE LIDS.
- ALL GRAVITY SEWER PIPE SHALL BE PVC OR DUCTILE IRON. PVC PIPE SHALL CONFORM TO ASTM D-3034, SDR 26, LATEST REVISION, WITH MAXIMUM 13 FOOT LENGTHS AND PUSH-ON RUBBER GASKET JOINTS. DUCTILE IRON GRAVITY PIPE SHALL CONFORM TO THE SAME SPECIFICATIONS AS DUCTILE IRON PIPE (DIP) FORCE MAIN.
- THE MINIMUM DESIGN SLOPES FOR GRAVITY SEWERS AS FOLLOWS:
 

FOR PVC:	8" - 0.31%	10" - 0.24%	12" - 0.10%
FOR DIP:	8" - 0.36%	10" - 0.28%	12" - 0.22%
- THE CONTRACTOR SHALL TEST THE COMPLETED SEWER LINE TO DETERMINE ALIGNMENT AND TIGHTNESS OF THE JOINTS. TESTING SHALL BE LAIRED AND MUST SHOW A FULL CIRCLE OF LIGHT. INFILTRATION AND EXFILTRATION TESTING SHALL BE CONDUCTED. LEAKAGE SHALL NOT EXCEED 100 GALLONS PER INCH DIAMETER PER MILE PER DAY.
- CLEAN OUTS SHALL BE INSTALLED AT MAXIMUM 75 FOOT INTERVALS ON ALL SEWER SERVICES EXCEEDING 75 FEET IN LENGTH.
- ALL FORCE MAIN PIPE SHALL BE EPOXY-LINED DUCTILE IRON PIPE (DIP) UNLESS AN EXCEPTION IS SPECIFICALLY GRANTED BY THE CITY ENGINEER FOR THE USE OF PVC FORCE MAIN PIPE. ALL PIPE 8 INCHES AND LARGER SHALL BE CLASS 50 OR BETTER. FOUR (4) AND SIX (6) INCH DIAMETER DUCTILE IRON PIPE SHALL BE CLASS 52 OR BETTER. ALL PIPE SHALL CONFORM TO THE REQUIREMENTS OF ANSI/AWWA C151/A21.51-88 AND SHALL BE ASPHALT COATED OUTSIDE PER ANSI/AWWA C104/A21.4-90.
- ALL FITTINGS FOR FORCE MAINS SHALL BE CAST IRON OR DUCTILE IRON CONFORMING TO THE REQUIREMENTS OF ANSI/AWWA C110/A21.10-82.
- ALL DUCTILE IRON PIPE (DIP) FORCE MAINS SHALL BE INSTALLED WITH A MINIMUM CLEAR COVER OF 30 INCHES.
- WHEN PVC IS USED FOR FORCE MAINS, A 14-GAUGE MULTISTRAND COPPER WIRE SHALL BE INSTALLED THE LENGTH OF THE PIPE. ALL PVC C-900 FORCE MAINS SHALL BE INSTALLED WITH A MINIMUM CLEAR COVER 36".
- INSTALLATION AND TESTING OF FORCE MAINS SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SUNRISE SPECIFICATIONS.
- CONNECTING TO THE EXISTING SYSTEM: ALL CONNECTIONS TO EXISTING FORCE MAINS SHALL BE MADE UNDER THE DIRECTION OF THE COMMUNITY DEVELOPMENT DEPT. - ENGINEERING INSPECTORS. FORCE MAIN VALVES SEPARATING THE MAINS BEING INSTALLED FROM THE EXISTING MAINS SHALL BE OPERATED BY OR UNDER THE DIRECTION OF THE UTILITIES DEPARTMENT REPRESENTATIVE ONLY.



**TYPICAL SERVICE CONNECTION**

SCALE: NONE



**TYPICAL CLEANOUT IN ASPHALT OR CONCRETE**

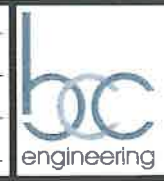
SCALE: NONE

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**48 HOURS BEFORE DIGGING**  
 BROWARD + PALM BEACH + INDIAN RIVER  
 ST. LUCE + MARTIN COUNTIES  
 CALL TOLL FREE  
**1-800-432-4770**  
 SUNSHINE STATE 1 CALL  
 UNDERGROUND UTILITIES  
 NOTIFICATION CENTER

REVISIONS		
NO.	DATE	DESCRIPTION

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 DRAWN BY: H.A.  
 CHECKED BY: S.J.R.  
 SCALE: N/A



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**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**  
 AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**SANITARY SEWER DETAILS & NOTES (FOR REPAIRS)**  
 CITY OF SUNRISE

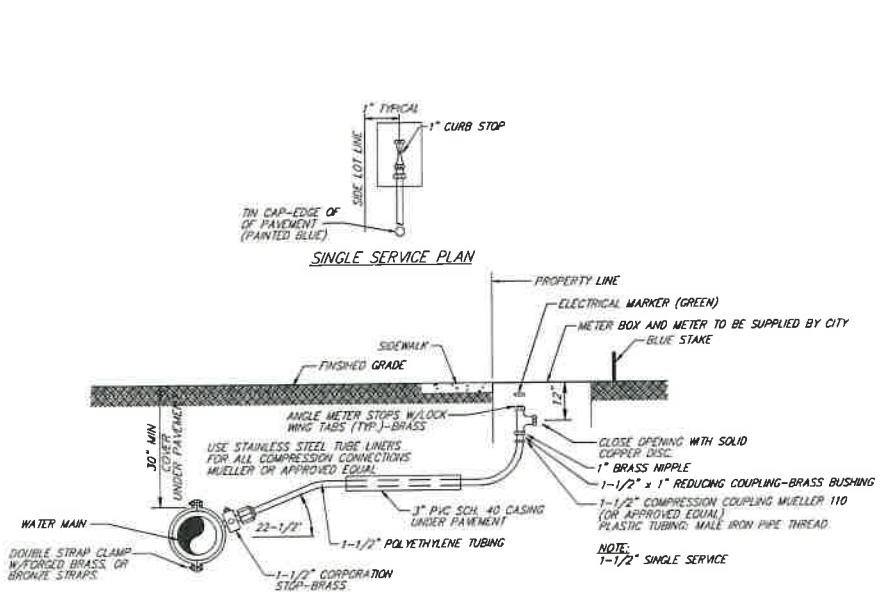


DATE: 01/28/2021  
 DRAWING NO: C-55



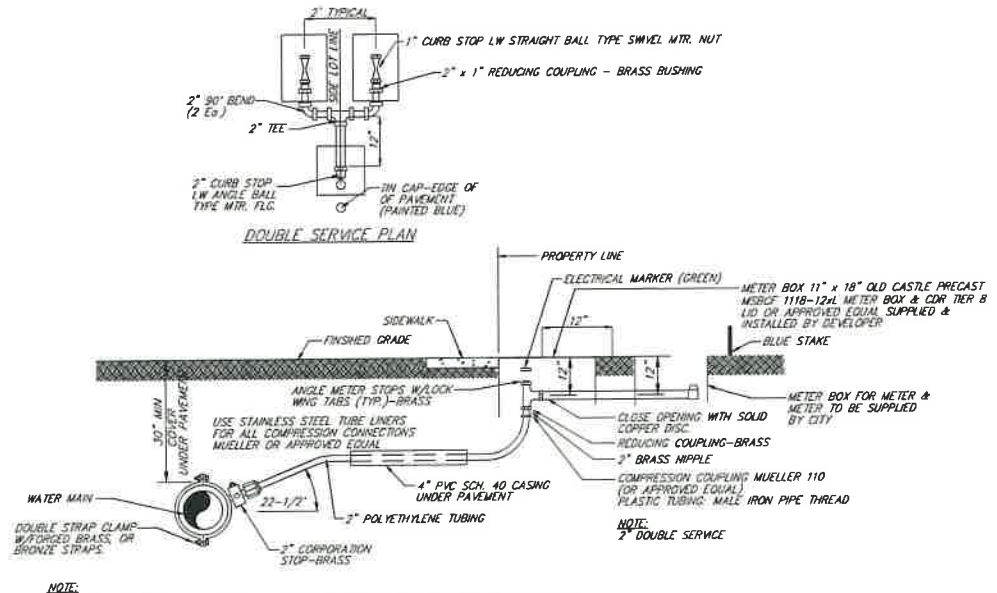


PLOT DATE: 1/27/2021 8:26 PM



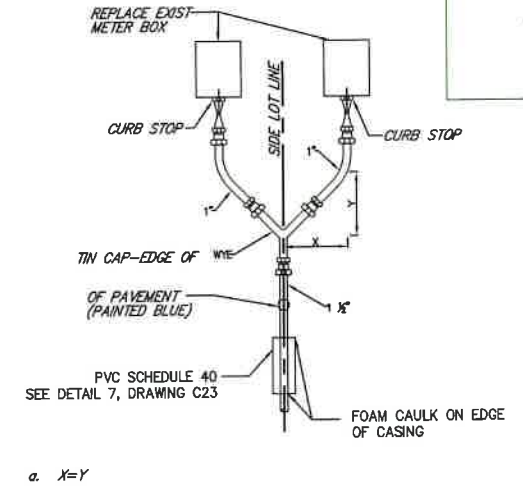
**NOTE:**  
 1.) FOR 1-1/2" SERVICE OR LARGER, PROVIDE FLANGED END FOR METER CONNECTION.  
 2.) CITY ENGINEERING INSPECTOR TO APPROVE FABRICATION AND INSTALLATION OF SERVICE.

TYPICAL SINGLE SERVICE - 1" METER



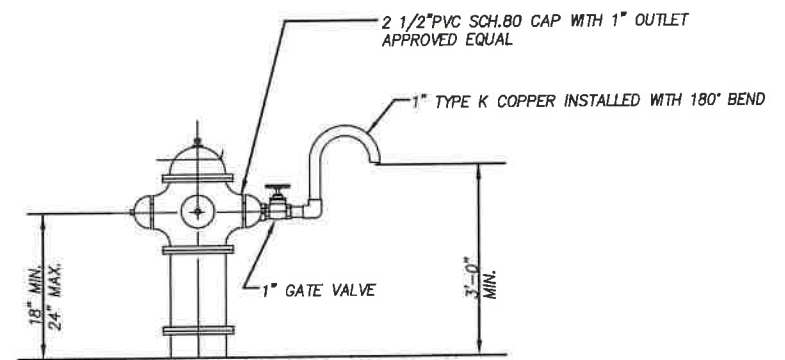
**NOTE:**  
 1.) FOR 1-1/2" SERVICE OR LARGER, PROVIDE FLANGED END FOR METER CONNECTION.  
 2.) U-BRANCH ASSEMBLY FROM 2" CURB STOP TO CURB STOP AT METER TO BE BRASS FITTING AND NIPPLES.  
 3.) CITY ENGINEERING INSPECTOR TO APPROVE FABRICATION AND INSTALLATION OF SERVICE.

TYPICAL DOUBLE SERVICE FOR 2-1" METERS

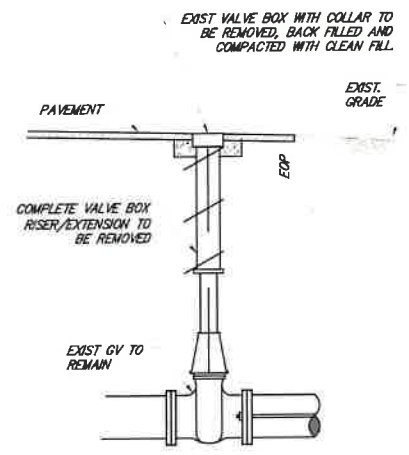


DOUBLE SERVICE PLAN

THIS DETAIL IS TO BE USED WHEN DETAIL "TYPICAL WATER SERVICE" ON DRAWING C-53, DOUBLE SERVICE CAN NOT BE ACCOMMODATED.



FIRE HYDRANT SAMPLE POINT



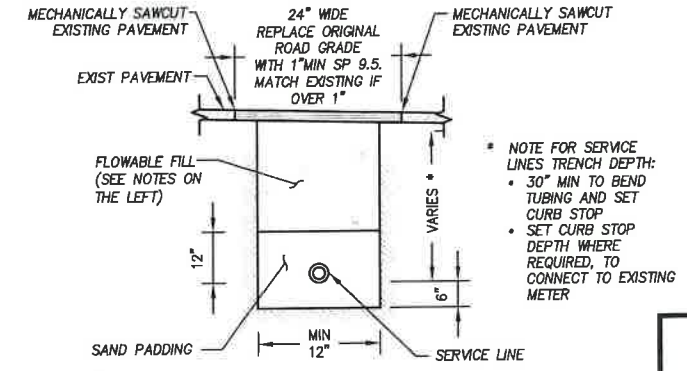
VALVE ABANDONMENT

**FLOWABLE FILL NOTES**

- FURNISH AND PLACE FLOWABLE FILL AS AN ALTERNATE TO COMPACTED SOIL AS NOTED IN THE ABOVE DETAIL.
  - FLOWABLE FILL SHALL BE A MIXTURE OF PORTLAND CEMENT, FLY ASH, FINE AGGREGATE, AIR ENTRAINMENT ADMIXTURE AND WATER, CONTAINING A LOW CEMENTITIOUS CONTENT FOR REDUCED STRENGTH DEVELOPMENT.
  - THE FOLLOWING MIX DESIGN GUIDELINES FOR EXCAVATABLE FLOWABLE FILL IS AS FOLLOWS:
    - CEMENT TYPE I: 75 TO 100 LB/CY
    - FLY ASH: NONE
    - WATER: \*
    - AIR: 5 TO 35%
    - 28 DAY COMPRESSIVE STRENGTH: MAX. 100PSI
    - UNIT WEIGHT (WET): 90 TO 100 LB/CF
- \*MIX DESIGN TO PRODUCE CONSISTENCY THAT WILL RESULT IN A FLOWABLE SELF-LEVELING PRODUCT AT TIME OF PLACEMENT.

**TRENCH SERVICE LINES**

THIS DETAIL IS TO BE USED BY CONTRACTOR, WHERE OPEN CUT SERVICE INSTALLATION ON ROADWAY IS USED.



\* NOTE FOR SERVICE LINES TRENCH DEPTH:  
 • 30" MIN TO BEND TUBING AND SET CURB STOP  
 • SET CURB STOP DEPTH WHERE REQUIRED, TO CONNECT TO EXISTING METER

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NO.	DATE	DESCRIPTION

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 DRAWN BY: H.A.  
 CHECKED BY: S.J.R.  
 SCALE: N/A

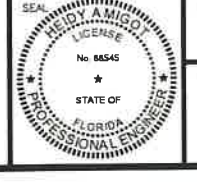


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BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS  
 AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**WATER MAIN DETAILS  
 SPECIAL PROJECT DETAILS**



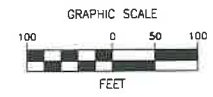
DATE: 01/28/2021  
 DRAWING NO: C-56

FILE LOCATION: H:\PROJECTS\017121\07 BONAVENTURE MAIN\05\017121\07\_C53-C56\_DET.DWG



PLOT DATE: 1/27/2021 8:27 PM

BCTED REFERENCE No: 201214060



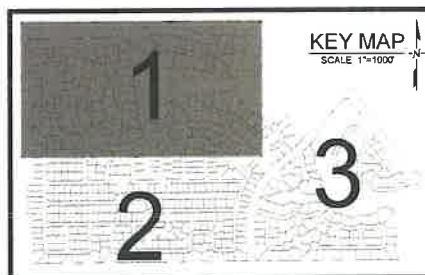
**LEGEND**

	PROJECT LIMITS
<b>EXISTING</b>	
	WATER MAIN
	FIRE HYDRANT
<b>PROPOSED</b>	
	WATER MAIN
	PROP. FIRE HYDRANT
	GATE VALVE
	TAPPING SLEEVE
	SOLID SLEEVE
	TEE
	WYE
	PLUG
	PLUG W/ 2\"/>
	WORKING ZONE BOUNDARY
	SWAB # AND DIRECTION
	FLUSHING IN SWAB
	FLUSHING OUT SWAB

MATCH LINE - SEE SHEET C-59

MATCH LINE - SEE SHEET C-58

LEAVE BLANK - FOR CITY USE ONLY



- FILLING AND FLUSHING NOTES:**
- THIS FILLING AND FLUSHING SEQUENCE IS JUST FOR REFERENCE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT FINAL PLANS, ACCORDING TO APPLICABLE REGULATIONS.
  - UNIDIRECTIONAL WATER FLUSHING AND ISOLATION IS RECOMMENDED. USE PROPOSED GATE VALVES TO CONTROL FLOW.
  - FINAL PLANS WILL BE APPROVED BY THE CITY OF SUNRISE AND ENGINEER OF RECORD.
  - PERFORM FILLING AND FLUSHING ACCORDING TO ANSI/AWWA STANDARDS C-651
  - FLUSHING TO BE PERFORMED BY WORK ZONES. NO WORK ZONES CAN BE FLUSHED SIMULTANEOUSLY.
  - SWABS TO BE NUMBERED WHEN INSTALLED TO VERIFY REMOVAL.

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REVISIONS		
NO.	DATE	DESCRIPTION

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 DRAWN BY: H.A.  
 CHECKED BY: S.J.R.  
 SCALE: 1"=100'

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**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**

AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE

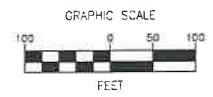
**PROPOSED FLUSHING SEQUENCE**



DATE: 01/28/2021  
 DRAWING NO: C-57

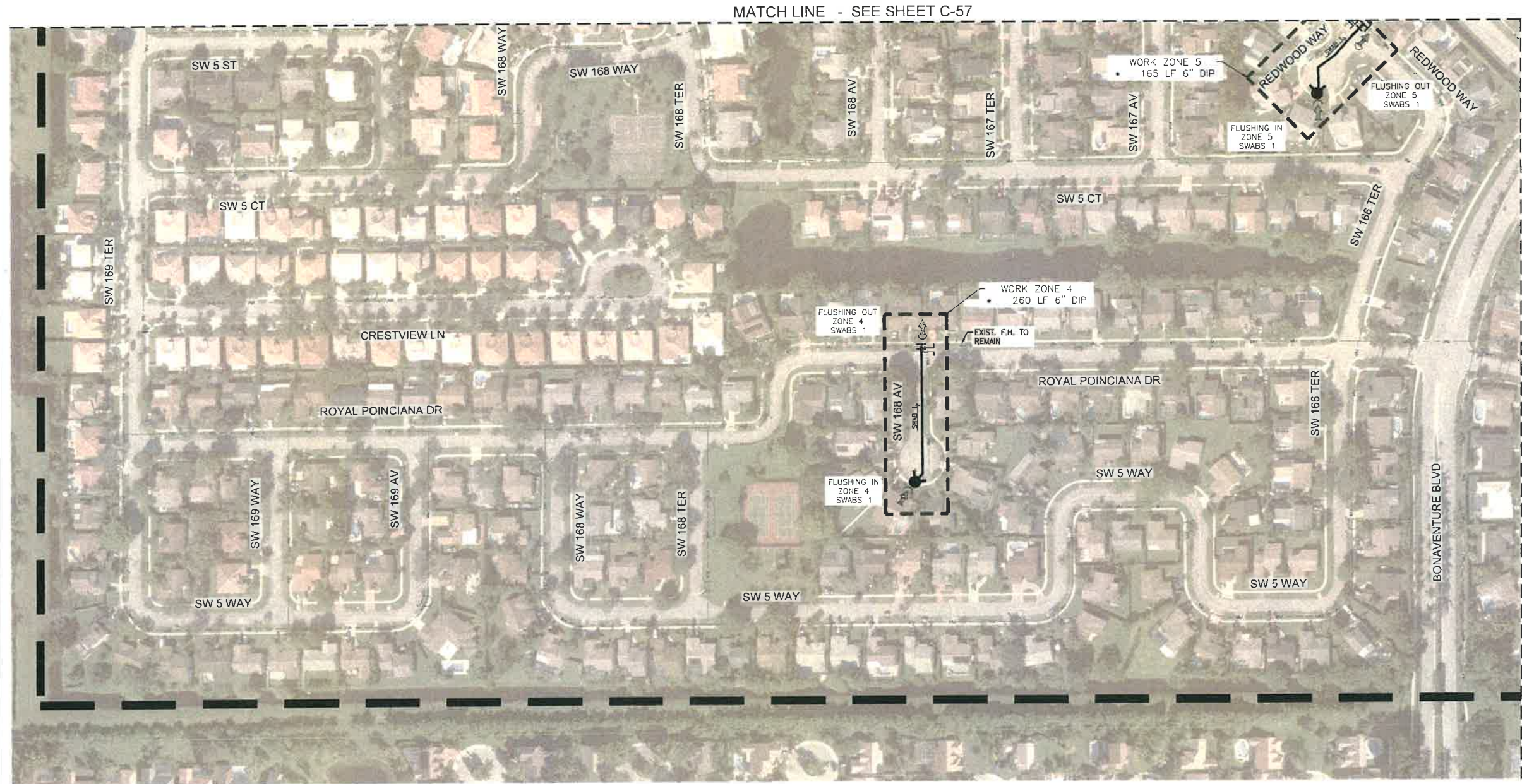
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**LEGEND**

- PROJECT LIMITS
- EXISTING**
- WATER MAIN
- FIRE HYDRANT
- PROPOSED**
- WATER MAIN
- PROP. FIRE HYDRANT
- GATE VALVE
- TAPPING SLEEVE
- SOLID SLEEVE
- TEE
- WYE
- PLUG
- PLUG W/ 2" BLOW OFF VALVE
- WORKING ZONE BOUNDARY
- SWAB # AND DIRECTION
- FLUSHING IN SWAB
- FLUSHING OUT SWAB



MATCH LINE - SEE SHEET C-59

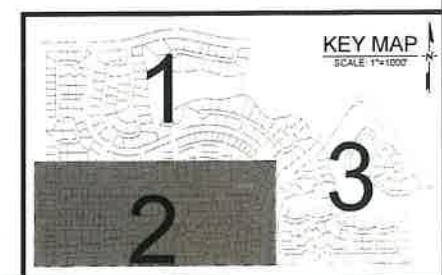
MATCH LINE - SEE SHEET C-57

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**FILLING AND FLUSHING NOTES:**

1. THIS FILLING AND FLUSHING SEQUENCE IS JUST FOR REFERENCE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT FINAL PLANS ACCORDING TO APPLICABLE REGULATIONS.
2. UNIDIRECTIONAL WATER FLUSHING AND ISOLATION IS RECOMMENDED. USE PROPOSED GATE VALVES TO CONTROL FLOW.
3. FINAL PLANS WILL BE APPROVED BY THE CITY OF SUNRISE AND ENGINEER OF RECORD.
4. PERFORM FILLING AND FLUSHING ACCORDING TO ANSI/AWWA STANDARDS C-851
5. FLUSHING TO BE PERFORMED BY WORK ZONES. NO WORK ZONES CAN BE FLUSHED SIMULTANEOUSLY.
6. SWABS TO BE NUMBERED WHEN INSTALLED TO VERIFY REMOVAL

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 CHECKED BY: S.J.R.  
 SCALE: 1"=100'

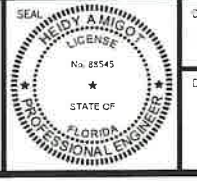


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SHEET TITLE  
**PROPOSED FLUSHING SEQUENCE**



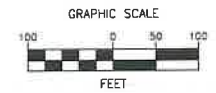
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 DRAWING NO.: C-58



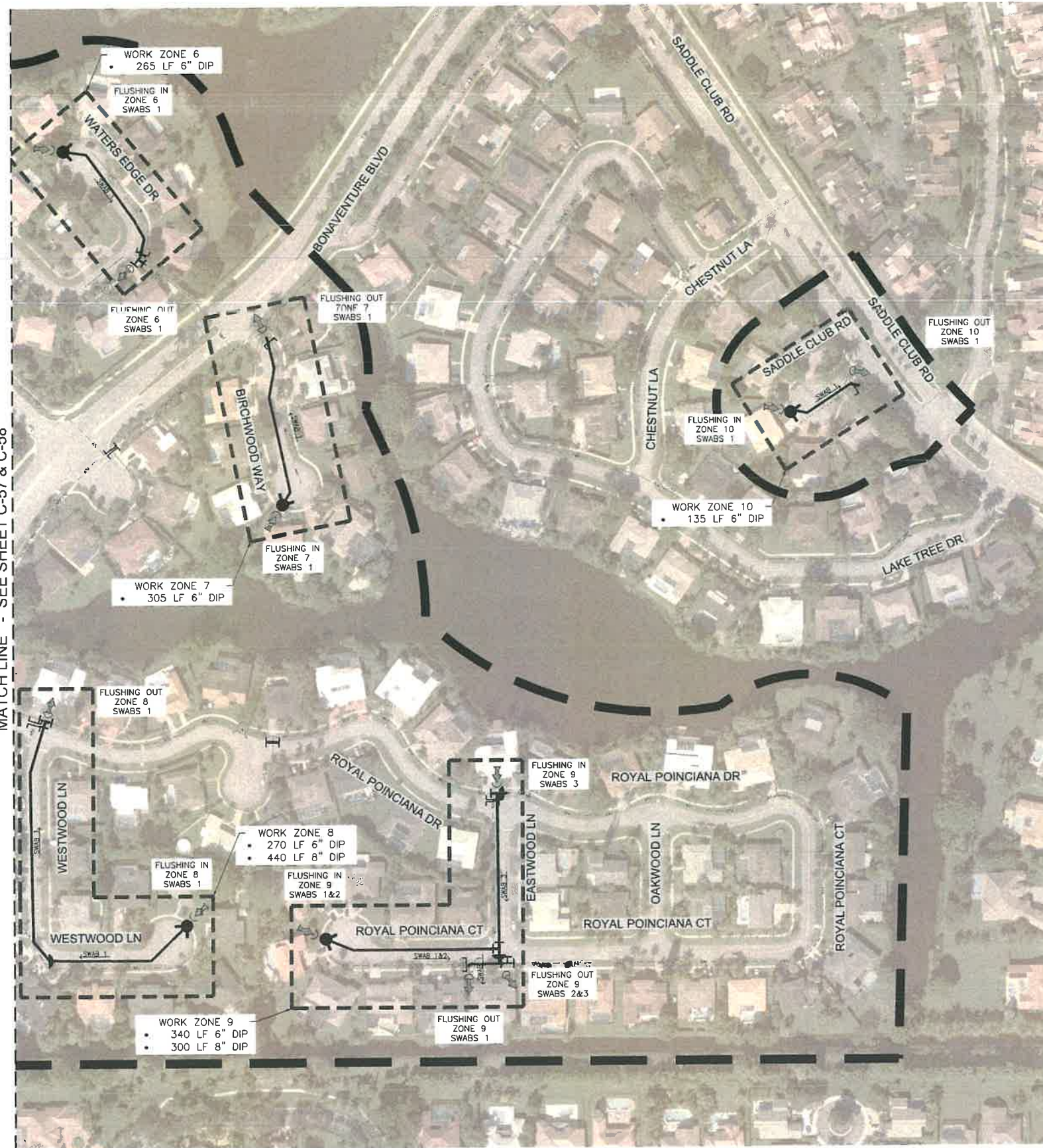
PLOT DATE: 1/27/2021 8:27 PM

FILE LOCATION: H:\PROJECTS\0171231\_07\_BONAVENTURE\_WA\0171231\_07\_C57-C59\_150.DWG

BCTED REFERENCE No: 201214060



MATCH LINE - SEE SHEET C-57 & C-58



**LEGEND**

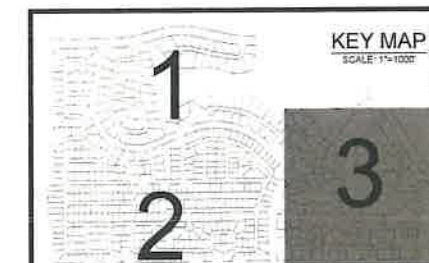
- PROJECT LIMITS
- EXISTING**
- WATER MAIN
- FIRE HYDRANT
- PROPOSED**
- WATER MAIN
- PROP. FIRE HYDRANT
- GATE VALVE
- TAPPING SLEEVE
- SOLID SLEEVE
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- WYE
- PLUG
- PLUG W/ 2" BLOW OFF VALVE
- WORKING ZONE BOUNDARY
- SWAB # AND DIRECTION
- FLUSHING IN SWAB
- FLUSHING OUT SWAB

**FILLING AND FLUSHING NOTES:**

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2. UNIDIRECTIONAL WATER FLUSHING AND ISOLATION IS RECOMMENDED. USE PROPOSED GATE VALVES TO CONTROL FLOW.
3. FINAL PLANS WILL BE APPROVED BY THE CITY OF SUNRISE AND ENGINEER OF RECORD.
4. PERFORM FILLING AND FLUSHING ACCORDING TO ANSI/AWWA STANDARDS C-651
5. FLUSHING TO BE PERFORMED BY WORK ZONES. NO WORK ZONES CAN BE FLUSHED SIMULTANEOUSLY.
6. SWABS TO BE NUMBERED WHEN INSTALLED TO VERIFY REMOVAL.

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AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

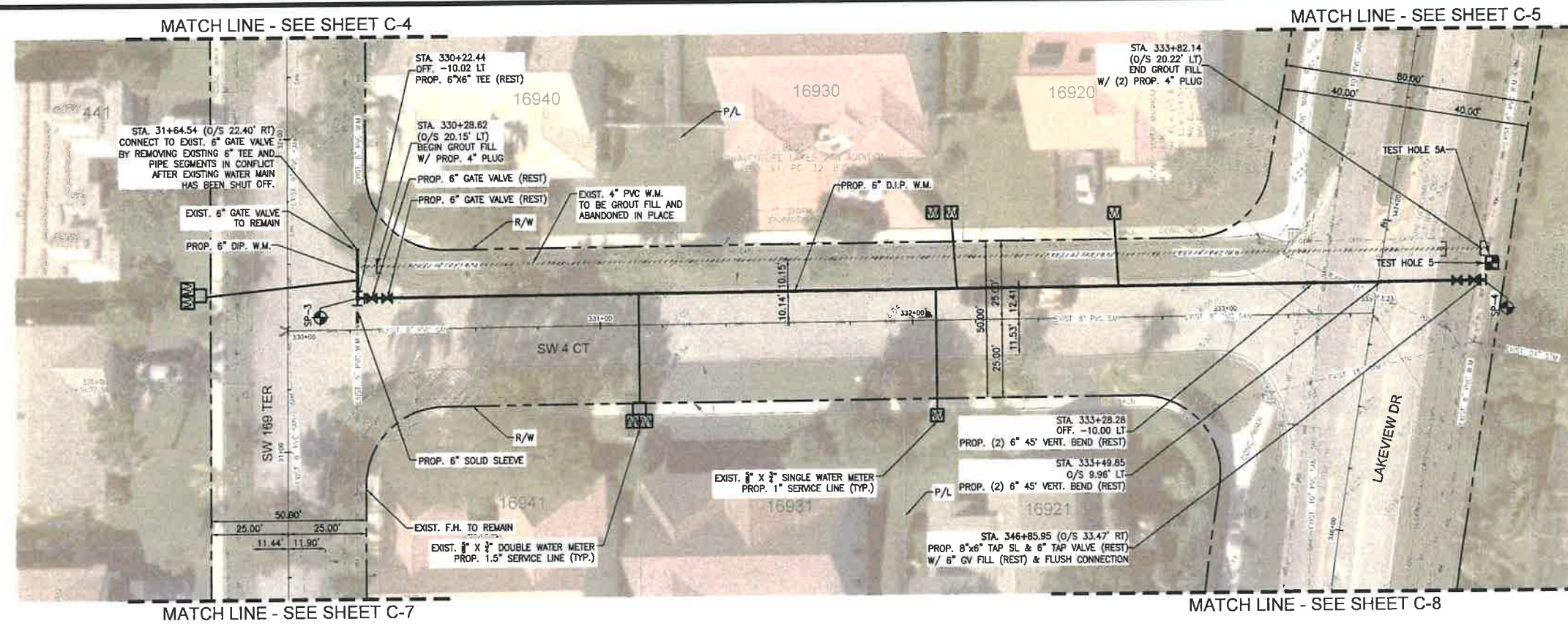
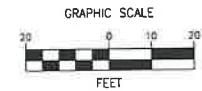
SHEET TITLE

**PROPOSED FLUSHING SEQUENCE**

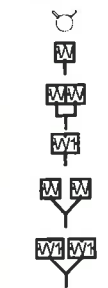


DATE: 01/28/2021  
 DRAWING NO: C-59





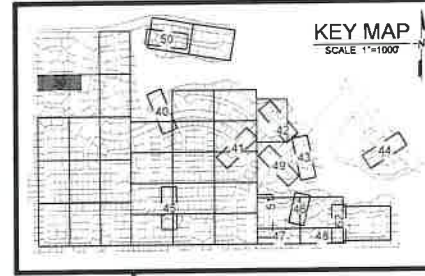
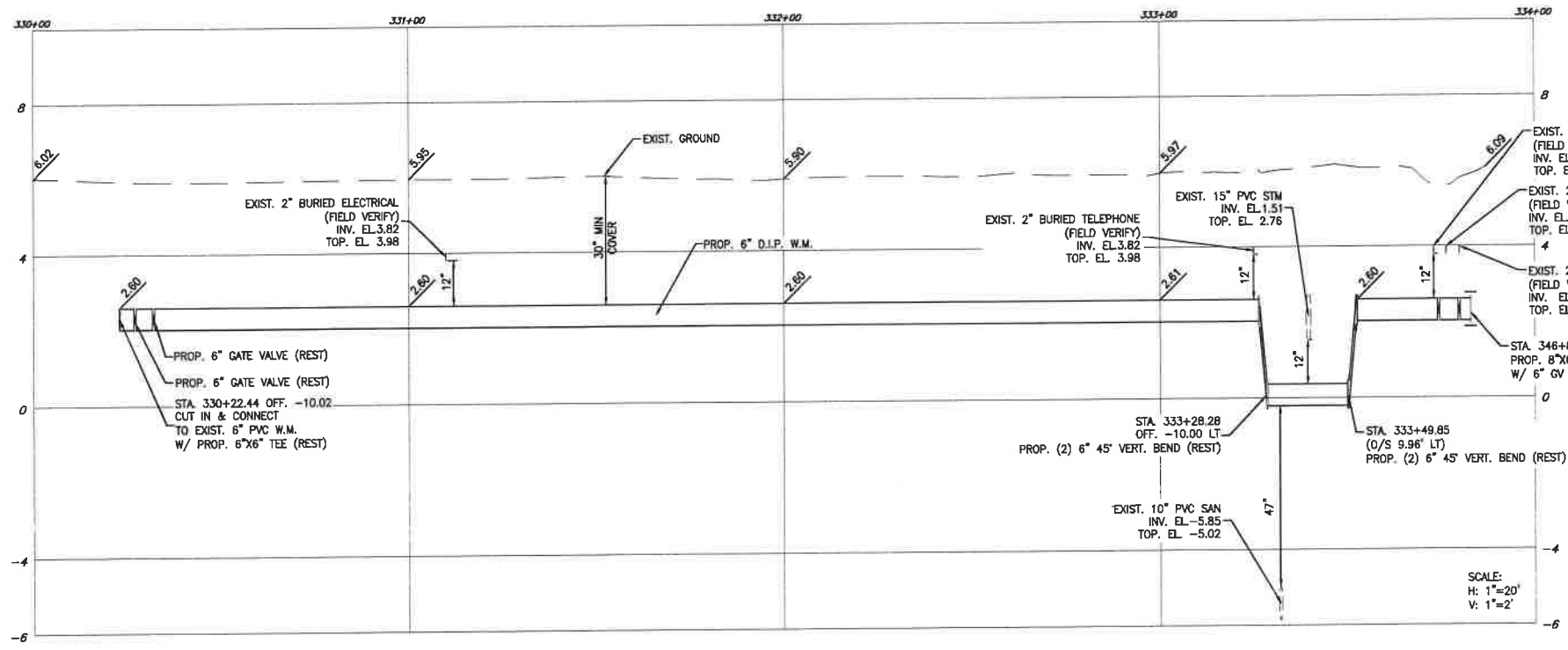
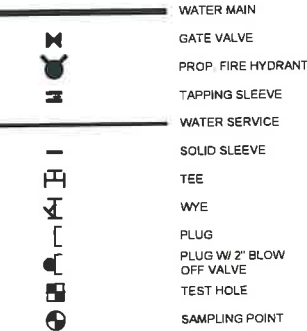
**EXISTING**



**NOTES**

1. NO VALVES IN CURB, SIDEWALK, OR DRIVEWAYS.
2. ALL WATER MAIN INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 62-555 OF THE FAC AS APPLICABLE.
3. RESTORE EXISTING VALVES AND MANHOLES AT PROPOSED CONNECTIONS TO CITY STANDARDS.
4. CITY OF SUNRISE DETAILS AND SPECIFICATIONS WILL GOVERN FOR WATER DISTRIBUTION INSTALLATION.
5. REPLACE EXISTING SERVICE LINES IN KIND. CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF ANY FIELD CHANGES.

**PROPOSED**



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**THRUST RESTRAINT NOTES**

1. ALL JOINTS BETWEEN BENDS AT HORIZONTAL & VERTICAL OFFSETS SHALL BE RESTRAINED.
2. MECHANICAL THRUST RESTRAINTS FOR D.I.P. FITTINGS ON D.I.P. PIPE SHALL BE MEGALUG AS MANUFACTURED BY EBAA IRON, INC., OR APPROVED EQUAL.
3. REFER TO SHEET C-54 FOR THRUST RESTRAINT LENGTH REQUIREMENTS.

REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY: H.A.  
 DRAWN BY: H.A.  
 CHECKED BY: S.J.R.  
 SCALE: H: 1\" = 20' V: 1\" = 2'



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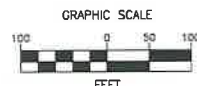
**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**  
 AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**WATER MAIN PLAN AND PROFILE**



DATE: 01/28/2021  
 DRAWING NO: C-39





**LEGEND**

- PROJECT LIMITS
- MILL AND PAVEMENT RESURFACING AREA

**NOTE:**

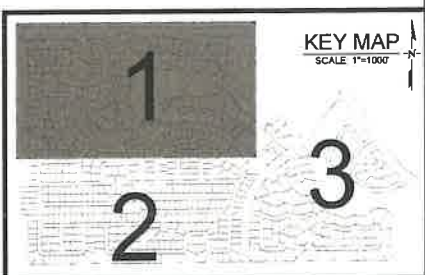
1. CONTRACTOR SHALL INSTALL WATER MAIN PIPES USING OPEN CUT TRENCH.
2. CONTRACTOR SHALL INSTALL NEW WATER SERVICE LINES BY PIT LAUNCHED MINI HORIZONTAL DIRECTIONAL DRILL.
3. CONTRACTOR SHALL RETAIN A CITY OF WESTON REGISTERED ARBORIST TO MITIGATE LANDSCAPE IMPACTS THAT MAY OCCUR.
4. ALL SIDEWALK WORK SHALL CONFORM TO THE STANDARDS AND MATERIALS PER CITY OF WESTON CODE OF ORDINANCES CHAPTER 127.35
5. SAW CUTTING OF THE EXISTING SIDEWALK SHALL BE MADE ONLY AT THE NEAREST FLAG JOINTS
6. ONLY DETECTABLE WARNING PAVERS SHALL BE USED FOR THE INSTALLATION OF ACCESSIBLE ROUTES OR ADA CURB-CUT RAMPS



MATCH LINE - SEE SHEET PM-3

MATCH LINE - SEE SHEET PM-2

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NO.	DATE	DESCRIPTION

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**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**

AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE

**PAVEMENT RESTORATION PLAN**

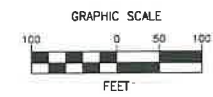


DATE: 01/28/2021  
 DRAWING NO. PM-1









**LEGEND**

- PROJECT LIMITS
- MILL AND PAVEMENT RESURFACING AREA

**NOTE:**

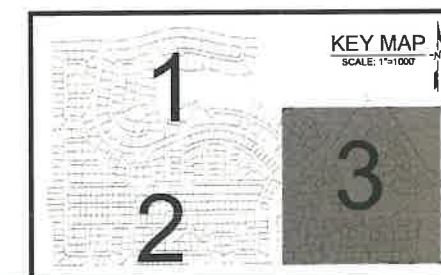
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MATCH LINE - SEE SHEET PM-1 & PM-2



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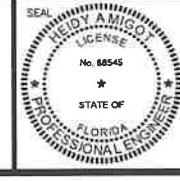


**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**

AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

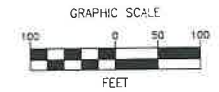
SHEET TITLE

**PAVEMENT RESTORATION PLAN**



DATE: 01/28/2021  
 DRAWING NO.: PM-3





**LEGEND**

PROJECT LIMITS

**NOTE:**

1. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC ALKYD-BASED THERMOPLASTIC AND FULLY RETROREFLECTORIZED WITH THE EXCEPTION OF PARKING STALL STRIPING.



MATCH LINE - SEE SHEET PM-6

MATCH LINE - SEE SHEET PM-5

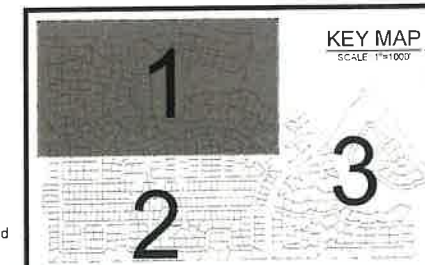
**NOTE:**

REFER TO SHEET PM-12 FOR BROWARD COUNTY'S "PAVEMENT MARKINGS AND SIGNS DETAILS"

**BROWARD COUNTY TRAFFIC ENGINEERING DIVISION MARKING AND SIGNING NOTES**

THE FOLLOWING ITEMS ARE NOT REVIEWED OR ACCEPTED BY BROWARD COUNTY

1. BROWARD COUNTY TRAFFIC ENGINEERING DIVISION'S REVIEW DOES NOT INCLUDE A REVIEW AND ACCEPTANCE OF THE PROJECT'S DESIGN OR OPERATION. THESE ITEMS ARE TO BE REVIEWED AND APPROVED BY THE CITY ENGINEER.
2. BROWARD COUNTY TRAFFIC ENGINEERING DIVISION DOES NOT REVIEW AND APPROVE, OR INSPECT AND ACCEPT THE FOLLOWING ITEMS FOR MAINTENANCE: PAVEMENT MARKINGS ON OR ADJACENT TO PAVER BRICKS, PAINTED ASPHALT, STAMPED ASPHALT OR PAVEMENT MARKINGS MADE OF PAVER BRICKS, RAISED INTERSECTIONS AND RELATED MARKINGS AND SIGNING, UNWARRANTED CROSSWALKS AND RELATED MARKINGS AND SIGNING, PAINTED DECORATIVE CROSSWALKS AND RELATED MARKINGS AND SIGNING, UNWARRANTED MID-BLOCK CROSSWALKS AND RELATED MARKINGS AND SIGNING, ADVANCED WARNING PAVEMENT MARKINGS FOR SPEED TABLES, BLINKER SIGNS, RECTANGULAR RAPID FLASHER BEACONS AND RELATED MARKINGS AND SIGNING, ON-STREET PARKING AND RELATED MARKINGS AND SIGNING, IN-ROAD LIGHTING AND RELATED MARKINGS AND SIGNING, GREEN BIKE LANES, FLEXIBLE DELINEATORS, DECORATIVE SIGNS AND DECORATIVE SIGN POSTS, PLANTERS, ON-SITE PAVEMENT MARKINGS AND SIGNING, OFF-SITE PAVEMENT MARKINGS AND SIGNING IN RIGHT-OF-WAY THAT IS NOT DEDICATED FOR PUBLIC USE, SIDEWALK WORK OR ASPHALT WORK.
3. THE CITY ENGINEER IS RESPONSIBLE FOR THE REVIEW AND APPROVAL OF THE DESIGN AND OPERATION OF THE PROJECT, AND FOR THE INSPECTION AND ACCEPTANCE OF THE FOLLOWING ITEMS THAT WILL BE MAINTAINED BY THE CITY: PAVEMENT MARKINGS ON OR ADJACENT TO PAVER BRICKS, PAINTED ASPHALT, STAMPED ASPHALT OR PAVEMENT MARKINGS MADE OF PAVER BRICKS, RAISED INTERSECTIONS AND RELATED MARKINGS AND SIGNING, UNWARRANTED MID-BLOCK CROSSWALKS AND RELATED MARKINGS AND SIGNING, UNWARRANTED CROSSWALKS AND RELATED MARKINGS AND SIGNING, PAINTED DECORATIVE CROSSWALKS, RAISED CROSSWALKS AND RELATED MARKINGS AND SIGNING, UNWARRANTED MID-BLOCK CROSSWALKS AND RELATED MARKINGS AND SIGNING, ADVANCED WARNING PAVEMENT MARKINGS FOR SPEED TABLES, BLINKER SIGNS, RECTANGULAR RAPID FLASHER BEACONS AND RELATED MARKINGS AND SIGNING, ON-STREET PARKING AND RELATED MARKINGS AND SIGNING, IN-ROAD LIGHTING AND RELATED MARKINGS AND SIGNING, GREEN BIKE LANES, FLEXIBLE DELINEATORS, DECORATIVE SIGNS AND DECORATIVE SIGN POSTS, PLANTERS, ON-SITE PAVEMENT MARKINGS AND SIGNING, OFF-SITE PAVEMENT MARKINGS AND SIGNING IN RIGHT-OF-WAY THAT IS NOT DEDICATED FOR PUBLIC USE, SIDEWALK WORK AND ASPHALT WORK.
4. ALL TRAFFIC CONTROL DEVICES MAINTAINED BY BROWARD COUNTY, THAT ARE REMOVED OR DAMAGED BY CONSTRUCTION, SHALL BE REPLACED BY CONTRACTOR USING CURRENT BROWARD COUNTY TRAFFIC ENGINEERING DIVISION STANDARDS.



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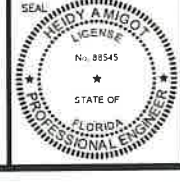
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**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**  
 AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**PAVEMENT MARKING PLAN**

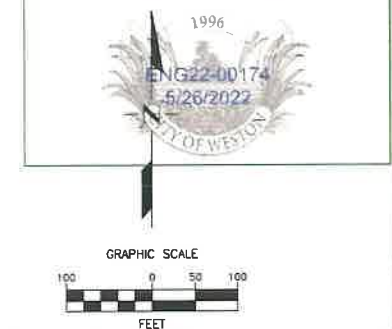


DATE: 01/28/2021  
 DRAWING NO.: PM-4

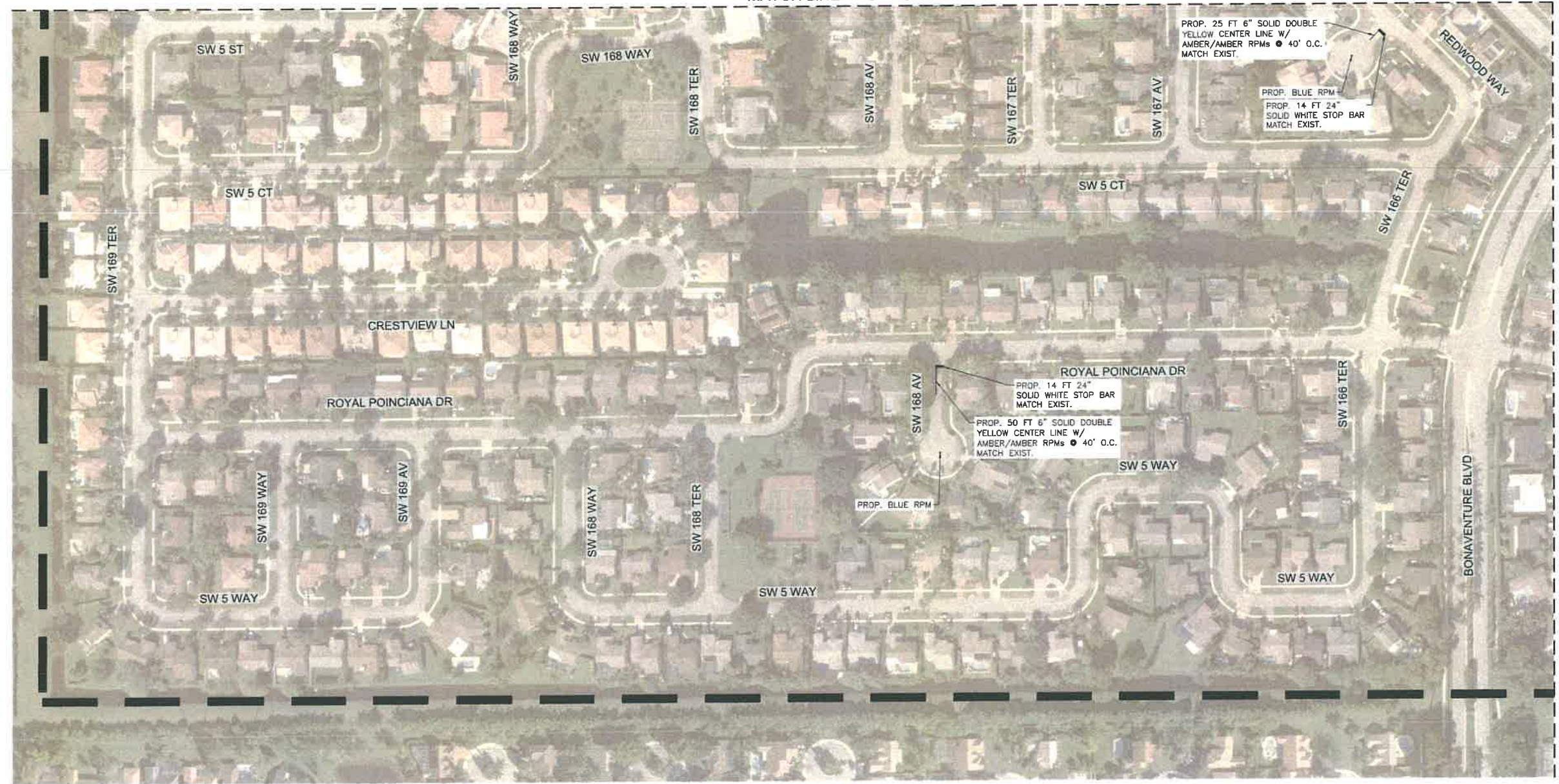


PLOT DATE: 1/31/2022 11:24 AM

BCTED REFERENCE No. 201214060



MATCH LINE - SEE SHEET PM-4



**LEGEND**

PROJECT LIMITS

**NOTE:**

1. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC ALKYD-BASED THERMOPLASTIC AND FULLY RETROREFLECTORIZED WITH THE EXCEPTION OF PARKING STALL STRIPING.

MATCH LINE - SEE SHEET PM-6

**NOTE:**

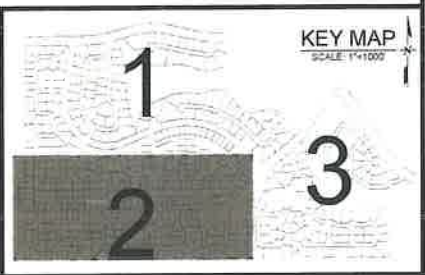
REFER TO SHEET PM-12 FOR BROWARD COUNTY'S "PAVEMENT MARKINGS AND SIGNS DETAILS"

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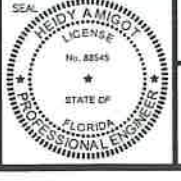


**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**

AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE

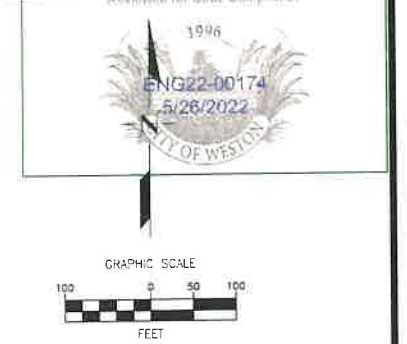
**PAVEMENT MARKING PLAN**



DATE: 01/28/2021  
 DRAWING NO. PM-5

FILE LOCATION: H:\PROJECTS\0171231\07\_BONAVENTURE\_WA\CAD\0171231\_07\_PM4-PML\_PARK.DWG





**LEGEND**

— PROJECT LIMITS

**NOTE:**

1. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC ALKYD-BASED THERMOPLASTIC AND FULLY RETROREFLECTORIZED WITH THE EXCEPTION OF PARKING STALL STRIPING.

**NOTE:**

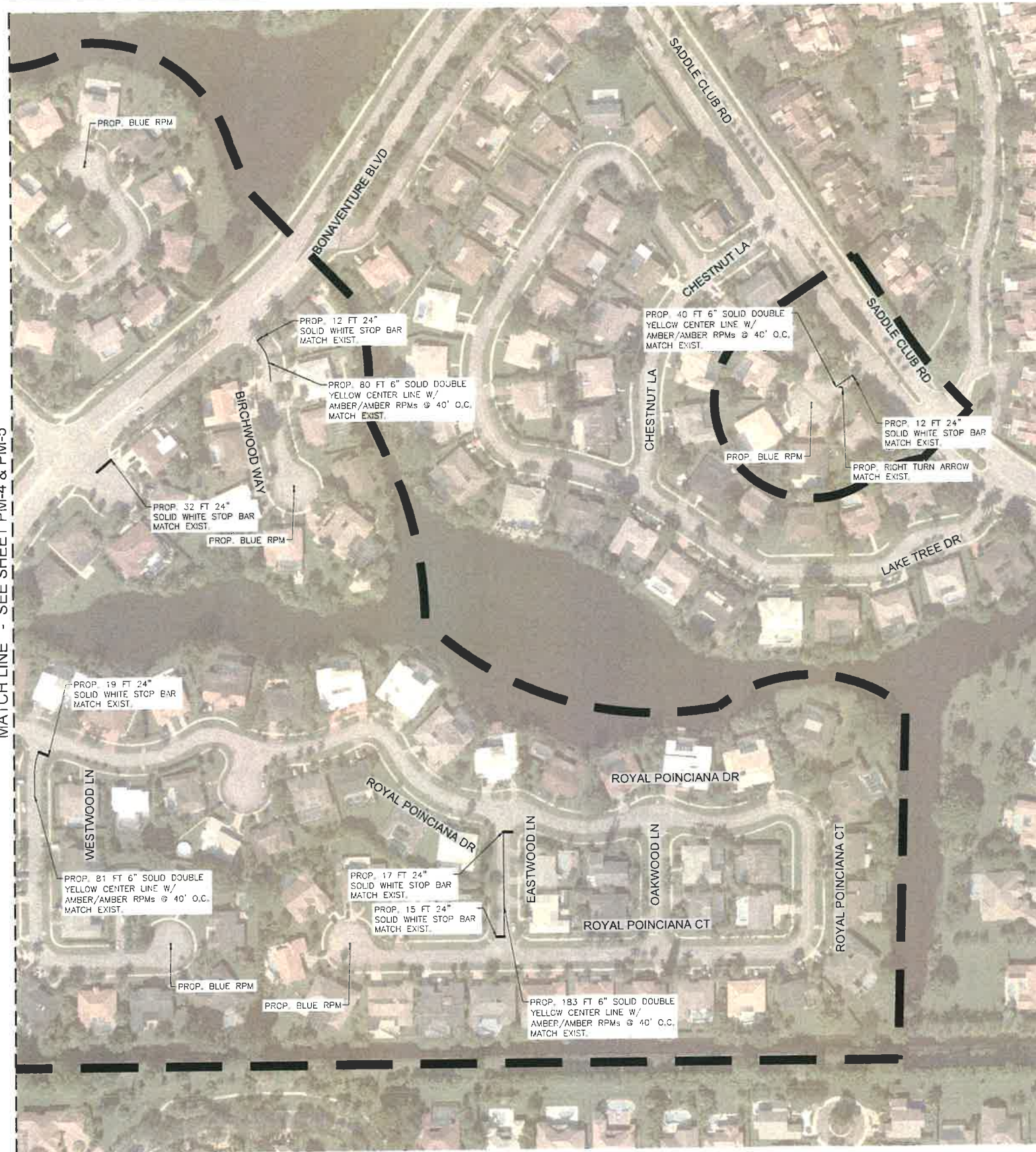
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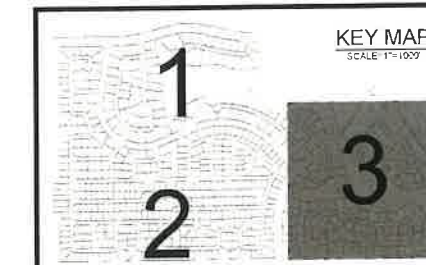
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MATCH LINE - SEE SHEET PM-4 & PM-5



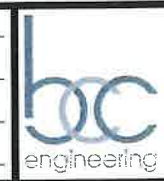
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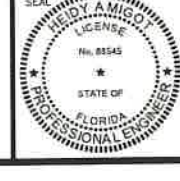


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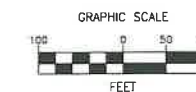
**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**  
 AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**PAVEMENT MARKING PLAN**



DATE: 01/28/2021  
 DRAWING NO.: PM-6



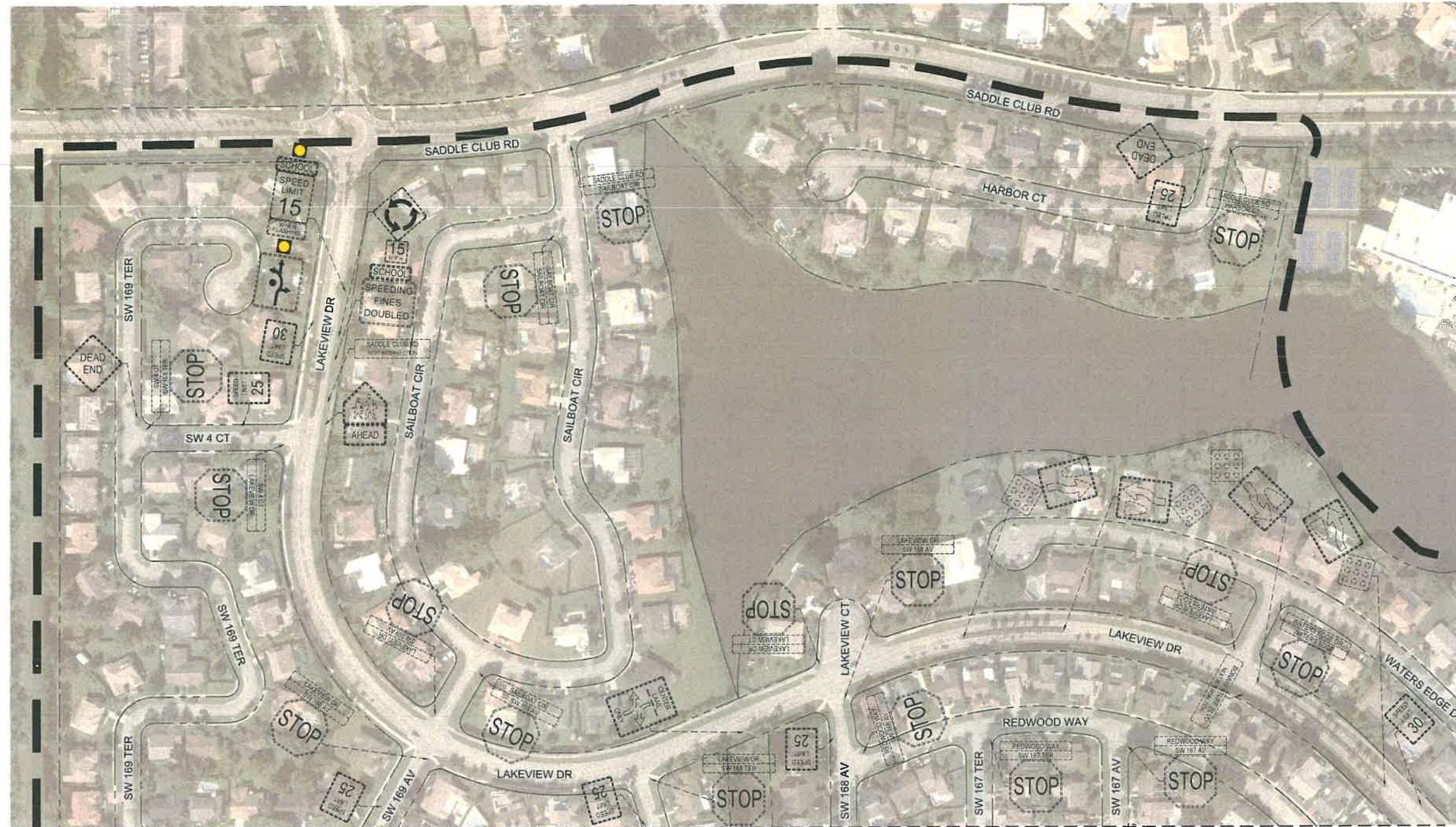


**LEGEND**

— PROJECT LIMITS

**NOTE:**

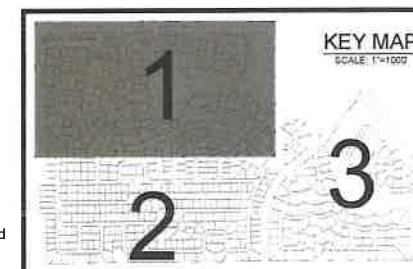
1. ALL EXISTING SIGNS AND SIGNPOSTS ARE TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING EXISTING SIGN AND SIGNPOST IN KIND IF DAMAGED DURING CONSTRUCTION.
2. ALL TRAFFIC CONTROL SIGNS SHALL CONFORM TO BROWARD COUNTY TRAFFIC ENGINEERING (BCTED) AND MUTCD STANDARDS. BCTED SIGNS SPECIFICATIONS CONSIST OF TYPE XI RETROREFLECTIVE SHEETING MATERIALS EXCEPT FOR SCHOOL ZONE AND PEDESTRIAN SIGNS WHICH SHALL BE COMPRISED OF RETROREFLECTIVE FLUORESCENT YELLOWGREEN SHEETING CERTIFIED TYPE IV.



MATCH LINE - SEE SHEET PM-9

MATCH LINE - SEE SHEET PM-8

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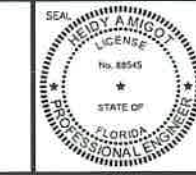


**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**

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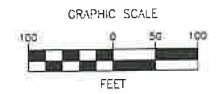
SHEET TITLE

**EXISTING SIGNAGE INVENTORY**



DATE: 01/28/2021  
 DRAWING NO.: PM-7





**LEGEND**

— PROJECT LIMITS

**NOTE**

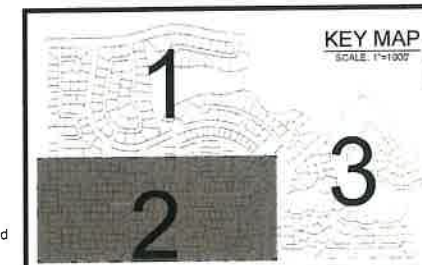
1. ALL EXISTING SIGNS AND SIGNPOSTS ARE TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING EXISTING SIGN AND SIGNPOST IN KIND IF DAMAGED DURING CONSTRUCTION.
2. ALL TRAFFIC CONTROL SIGNS SHALL CONFORM TO BROWARD COUNTY TRAFFIC ENGINEERING (BCTED) AND MUTCD STANDARDS. BCTED SIGNS SPECIFICATIONS CONSIST OF TYPE XI RETROREFLECTIVE SHEETING MATERIALS EXCEPT FOR SCHOOL ZONE AND PEDESTRIAN SIGNS WHICH SHALL BE COMPRISED OF RETROREFLECTIVE FLUORESCENT YELLOWGREEN SHEETING CERTIFIED TYPE IV.

MATCH LINE - SEE SHEET PM-7

MATCH LINE - SEE SHEET PM-9



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REVISIONS		
NO.	DATE	DESCRIPTION

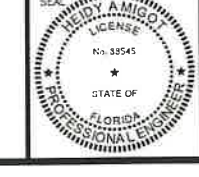
DESIGNED BY: H.A.  
 DRAWN BY: H.A.  
 CHECKED BY: S.J.R.  
 SCALE: 1"=100'

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 Miami, Florida 33173  
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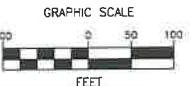
**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**  
 AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**EXISTING SIGNAGE INVENTORY**



DATE: 01/28/2021  
 DRAWING NO.: PM-8





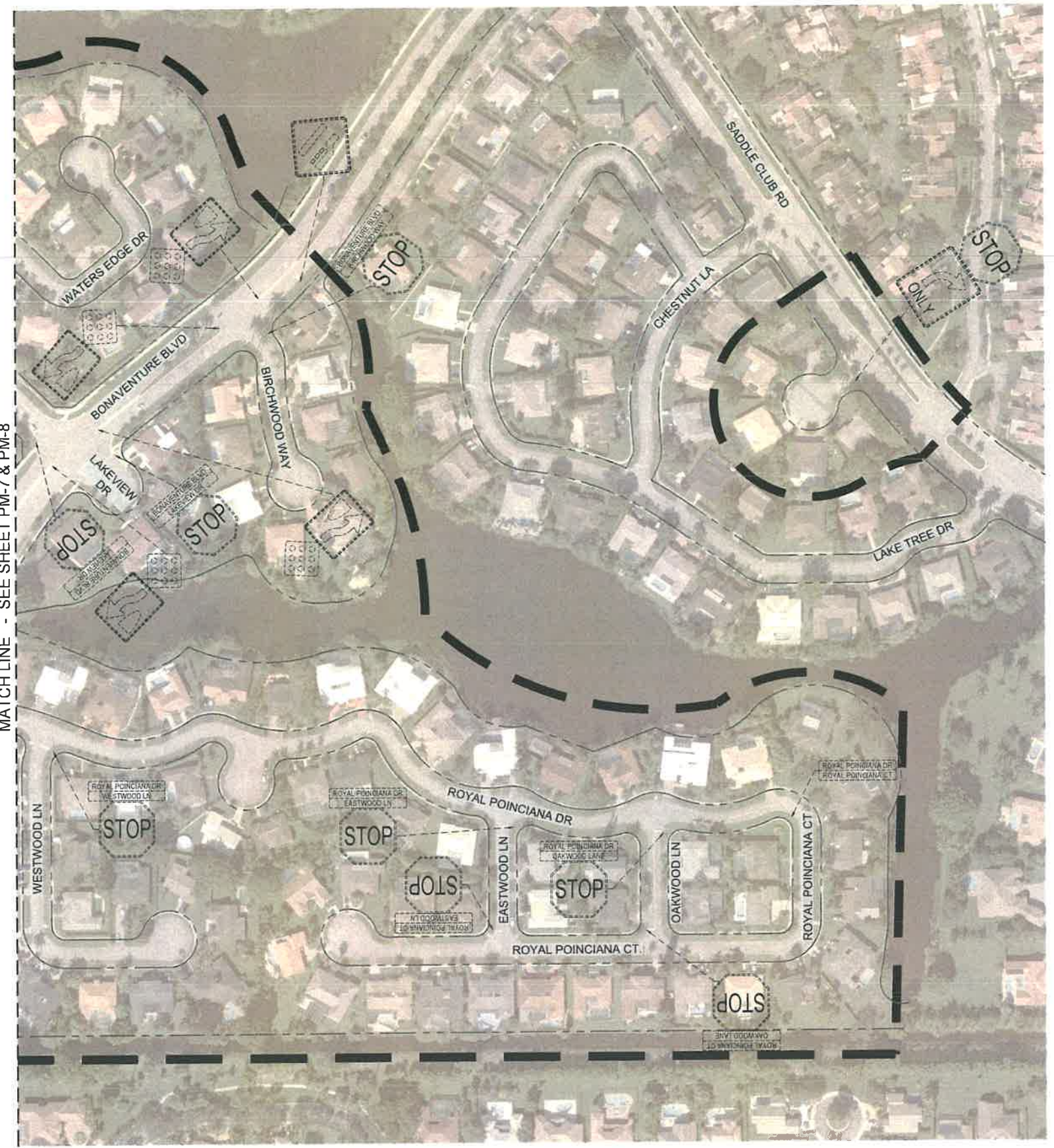
**LEGEND**

— PROJECT LIMITS

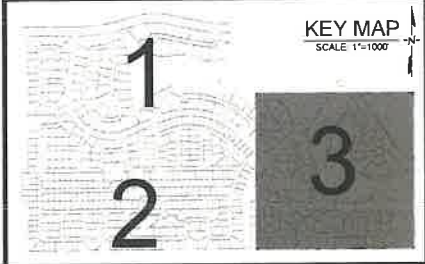
**NOTE:**

1. ALL EXISTING SIGNS AND SIGNPOSTS ARE TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING EXISTING SIGN AND SIGNPOST IN KIND IF DAMAGED DURING CONSTRUCTION.
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MATCH LINE - SEE SHEET PM-7 & PM-8



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 CHECKED BY: S.J.R.  
 SCALE: 1"=100'

**bcc engineering**

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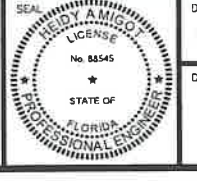


**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**

AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE

**EXISTING SIGNAGE INVENTORY**

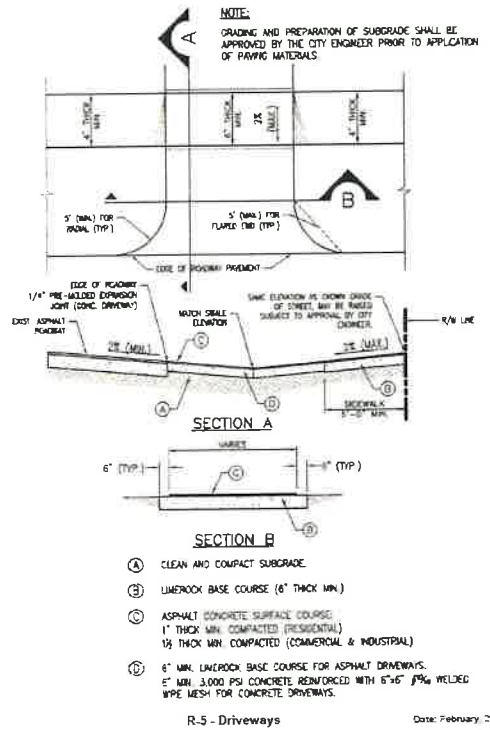


DATE: 01/28/2021  
 DRAWING NO. PM-9

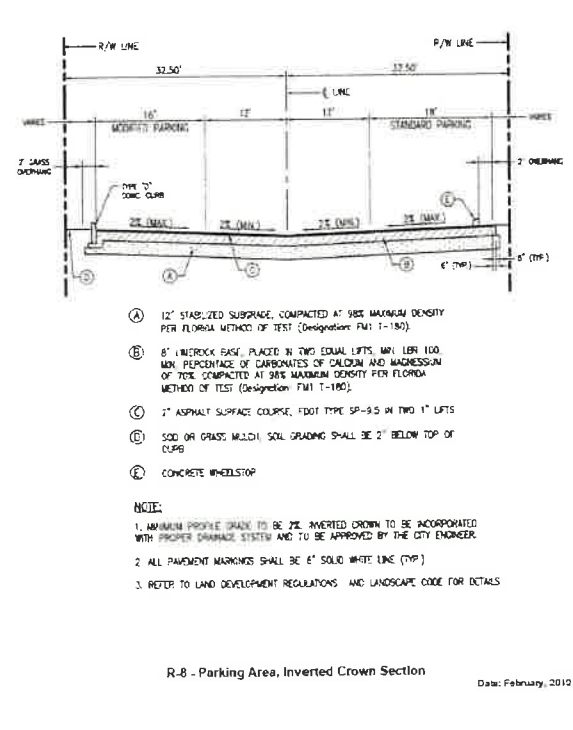




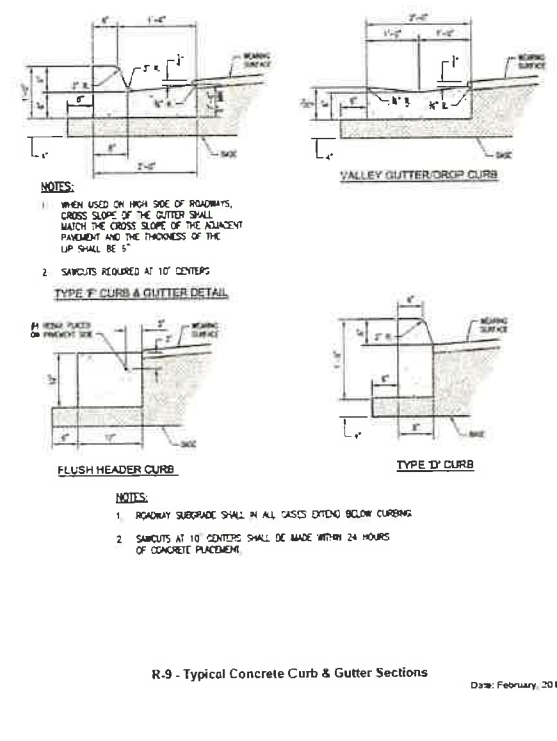
Engineering Standards 375



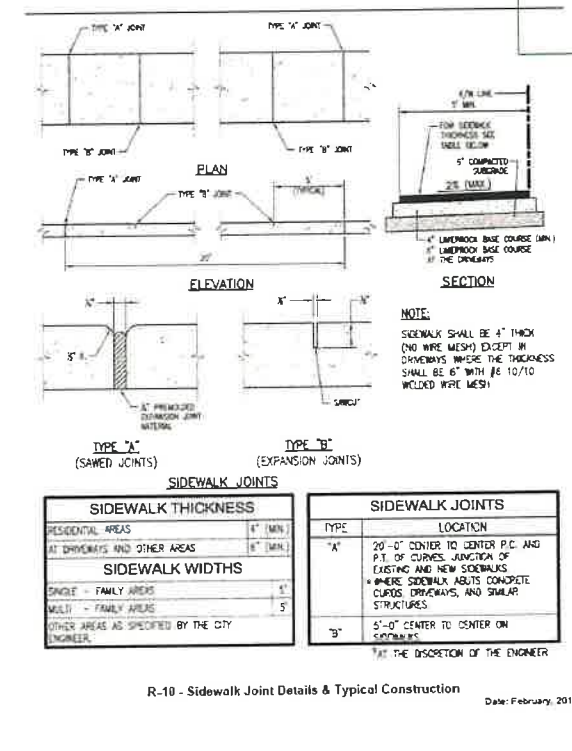
Weston - Land Use 378



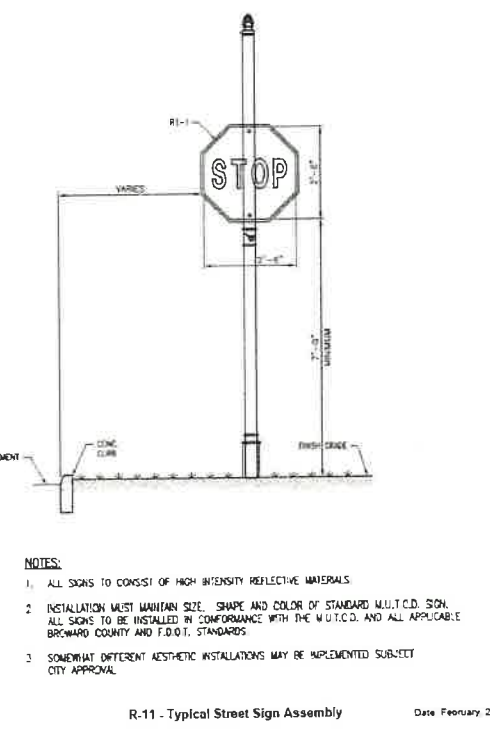
Engineering Standards 379



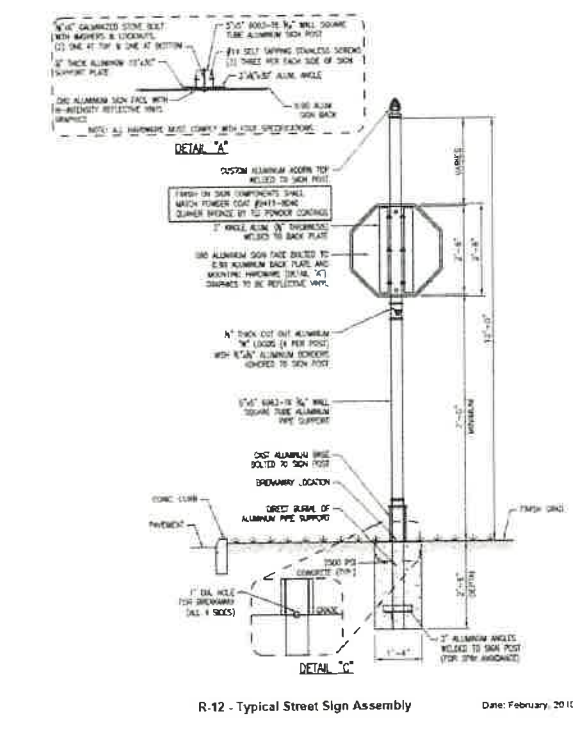
Weston - Land Use 380



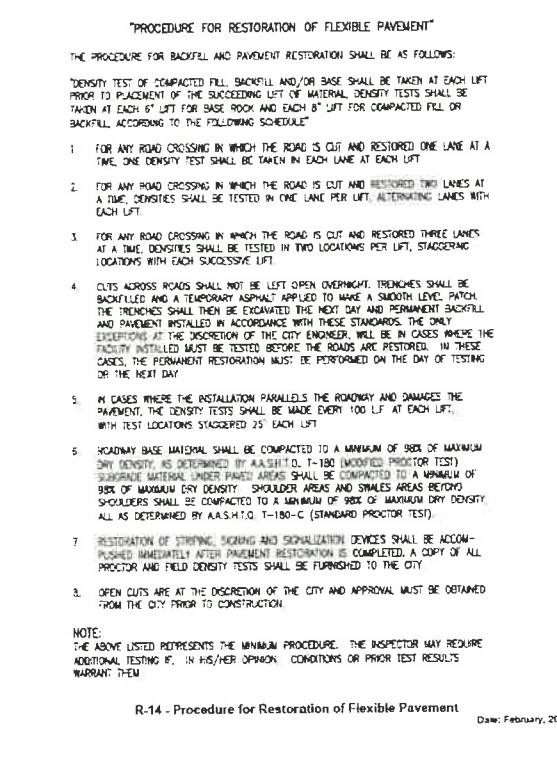
Engineering Standards 381



Weston - Land Use 382



Weston - Land Use 384



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FILE LOCATION: \\A:\PROJECTS\0171231\07 BONAVENTURE MAIN\CAD\0171231\_07\_PAV1-PM10-DRAWING.DWG

REVISIONS		
NO.	DATE	DESCRIPTION

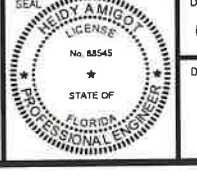
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BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS  
 AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**PAVEMENT RESTORATION & MARKING DETAILS CITY OF WESTON**



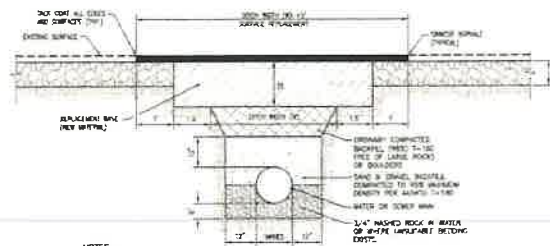
DATE: 01/28/2021  
 DRAWING NO: PM-10





PLOT DATE: 1/28/2021 3:20 PM

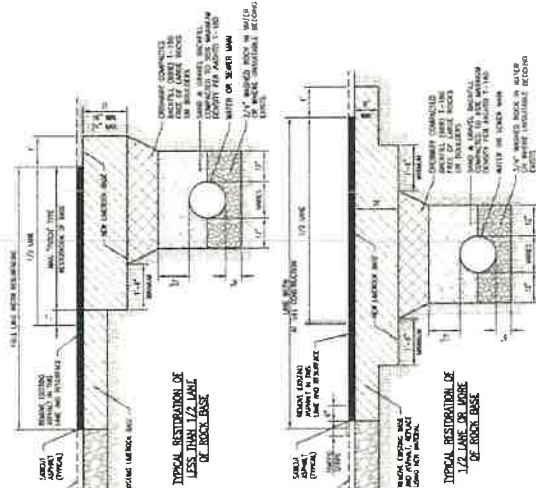
Engineering Standards 385



- NOTES:**
1. REPLACEMENT BASE MATERIAL FOR DITCH SHALL BE THREE TIMES THE THICKNESS OF THE ORIGINAL BASE, MINIMUM 18" MAXIMUM 24"
  2. WATER INTERIORITY SHALL BE PLACED TO 6" MINIMUM DOWNSIDE HEIGHTS AND EACH OF LAYERS INDICATED BY PALLETS OF SANDS TO ONE OF MAXIMUM DENSITY, PER MASHOT T-100
  3. ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED.
  4. SURFACE MATERIAL SHALL BE CONSISTENT WITH THE SURROUNDING SURFACE MATERIAL.
  5. BASE MATERIAL SHALL HAVE A MINIMUM LBR OF 100 AND A MINIMUM CARBONATE CONTENT OF 75%
  6. IF THE DITCH IS FILLED TEMPORARILY, IT SHALL COVERED WITH A 2" THICK 3:5 ASPHALT CONCRETE PAVEMENT TO KEEP THE FILL MATERIAL FROM BLOWING AWAY. REPLACED WITH A PERMANENT PAVEMENT PATCH.
  7. RESTORATION MUST BE RESTORED IN SLOPE WITH A UNIFORM WIDTH ACROSS A FULL LANE.
  8. OPEN CUTS ARE AT THE DISCRETION OF THE CITY AND APPROVAL MUST BE OBTAINED FROM THE CITY PRIOR TO CONSTRUCTION.

R-15 - Roadway Cut Restoration for Utility Perpendicular Crossing  
Date: February, 2010

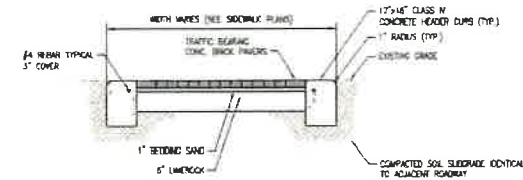
386 Weston - Land Use



- NOTES:**
1. BRICKEL SHALL BE PLACED IN A MINIMUM OF TWO LAYERS WITH A MINIMUM CARBONATE CONTENT OF 75%
  2. BRICKEL SHALL BE PLACED IN A MINIMUM OF TWO LAYERS WITH A MINIMUM CARBONATE CONTENT OF 75%
  3. BRICKEL SHALL BE PLACED IN A MINIMUM OF TWO LAYERS WITH A MINIMUM CARBONATE CONTENT OF 75%
  4. BRICKEL SHALL BE PLACED IN A MINIMUM OF TWO LAYERS WITH A MINIMUM CARBONATE CONTENT OF 75%
  5. BRICKEL SHALL BE PLACED IN A MINIMUM OF TWO LAYERS WITH A MINIMUM CARBONATE CONTENT OF 75%
  6. BRICKEL SHALL BE PLACED IN A MINIMUM OF TWO LAYERS WITH A MINIMUM CARBONATE CONTENT OF 75%
  7. BRICKEL SHALL BE PLACED IN A MINIMUM OF TWO LAYERS WITH A MINIMUM CARBONATE CONTENT OF 75%

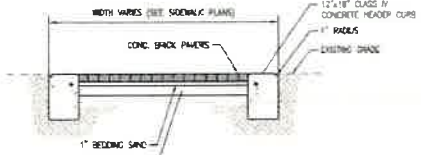
R-16 - Payment Restoration Longitudinal  
Date: February, 2010

Engineering Standards 389



BRICK PAVER CROSSWALK SECTION AND AT DRIVEWAY CONNECTIONS TO ROADWAYS

- NOTES:**
1. BEDDING SAND TO CONFORM TO ASTM C 33 COMMONLY KNOWN AS MANUFACTURED CONCRETE SAND DO NOT USE MASONRY SAND
  2. PROVIDE 1/4" WIDE x 1/4" DEEP SAWED CONTRACTION JOINTS AT 10' CENTERS (MAX) NO LATER THAN 12 HOURS AFTER THE CONCRETE TAKES INITIAL SET. COMPARABLE TOoled JOINTS MAY BE PROVIDED IN LIEU OF SAWED JOINTS



BRICK PAVER SIDEWALK SECTION

- NOTES:**
1. BEDDING SAND TO CONFORM TO ASTM C 33 COMMONLY KNOWN AS MANUFACTURED CONCRETE SAND DO NOT USE MASONRY SAND
  2. THIS SIDEWALK SECTION IS FOR THE NON-VEHICULAR SIDEWALK AREAS ONLY
  3. PROVIDE 1/4" WIDE x 1/4" DEEP SAWED CONTRACTION JOINTS IN CONCRETE AT 10' CENTERS (MAX) NO LATER THAN 12 HOURS AFTER INITIAL SET. COMPARABLE TOoled JOINTS MAY BE PROVIDED IN LIEU OF SAWED JOINTS

R-19 - Standard Brick Pavers Detail  
Date: February, 2010

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REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY: H.A.  
DRAWN BY: H.A.  
CHECKED BY: S.J.R.  
SCALE: N/A

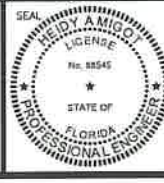


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BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS  
AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 168 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
**PAVEMENT RESTORATION & MARKING DETAILS CITY OF WESTON**

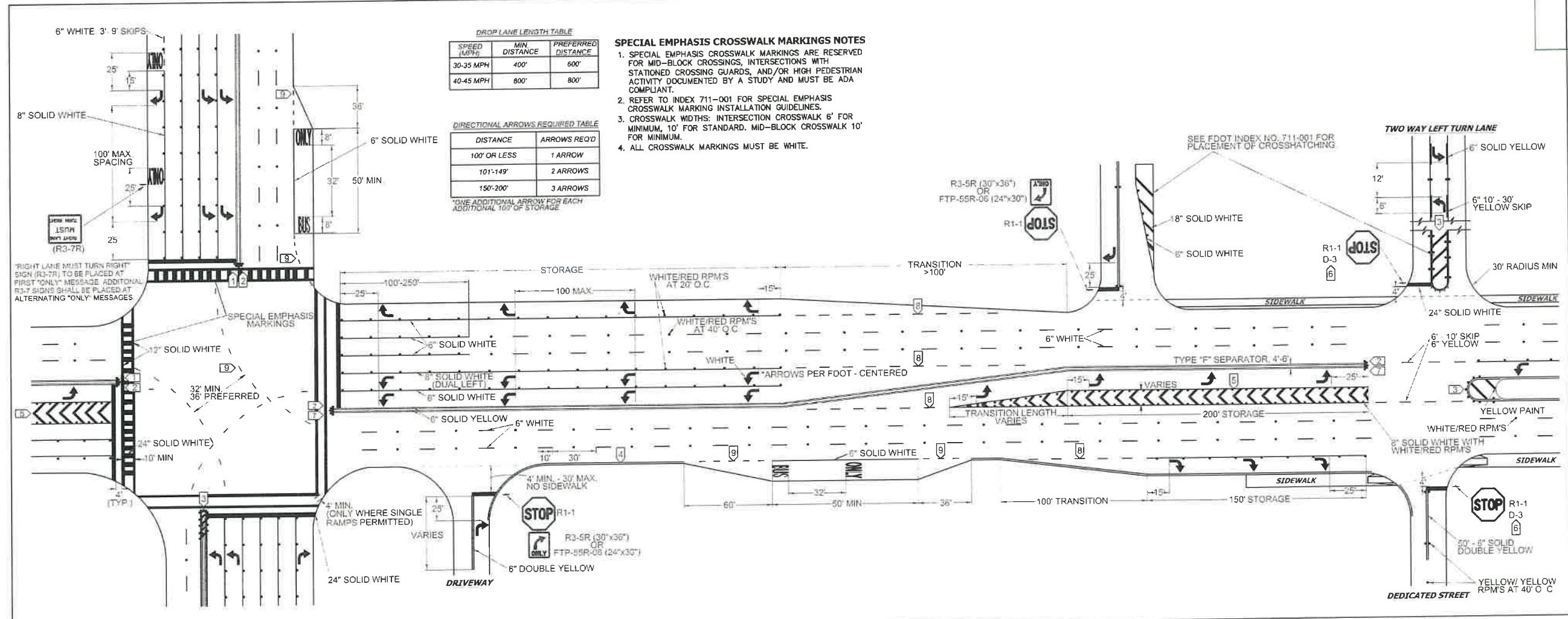


DATE: 01/28/2021  
DRAWING NO.: PM-11





PLOT DATE: 1/31/2022 11:45 AM



**DROP LANE LENGTH TABLE**

SPEED (MPH)	MIN. DISTANCE	PREFERRED DISTANCE
30-35 MPH	400'	600'
40-45 MPH	600'	800'

**DIRECTIONAL ARROWS REQUIRED TABLE**

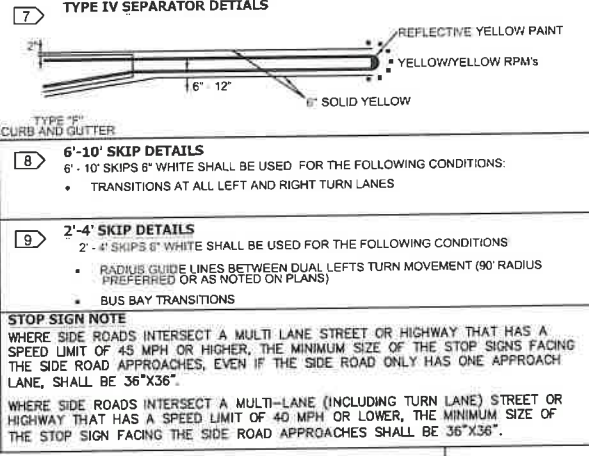
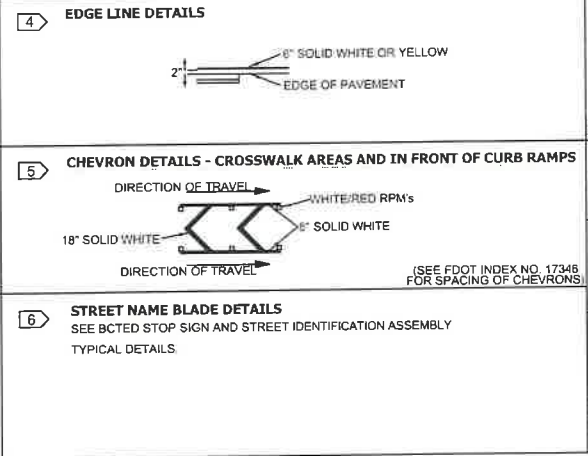
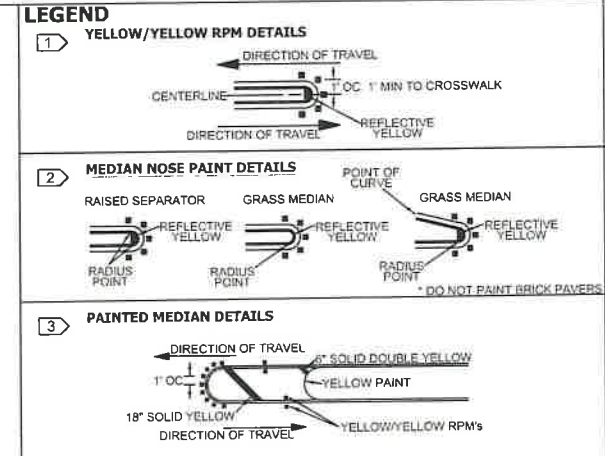
DISTANCE	ARROWS REQ'D
100' OR LESS	1 ARROW
101'-149'	2 ARROWS
150'-200'	3 ARROWS

\*ONE ADDITIONAL ARROW FOR EACH ADDITIONAL 100' OF STORAGE

**SPECIAL EMPHASIS CROSSWALK MARKINGS NOTES**

- SPECIAL EMPHASIS CROSSWALK MARKINGS ARE RESERVED FOR MID-BLOCK CROSSINGS, INTERSECTIONS WITH STATIONED CROSSING GUARDS, AND/OR HIGH PEDESTRIAN ACTIVITY DOCUMENTED BY A STUDY AND MUST BE ADA COMPLIANT.
- REFER TO INDEX 711-001 FOR SPECIAL EMPHASIS CROSSWALK MARKING INSTALLATION GUIDELINES.
- CROSSWALK WIDTHS: INTERSECTION CROSSWALK 6' FOR MINIMUM, 10' FOR STANDARD. MID-BLOCK CROSSWALK 10' FOR MINIMUM.
- ALL CROSSWALK MARKINGS MUST BE WHITE.

- NOTES**
- ALL PAVEMENT MARKINGS SHALL BE ALKYD BASED THERMOPLASTIC AND FULLY RETROREFLECTORIZED.
  - ALL PAVEMENT MARKINGS ON PAYER SYSTEMS SHALL BE 3M 380/391 SERIES TAPE OR EQUIVALENT AND APPLIED WITH P60 ADHESIVE AS PER MANUFACTURER'S SPECIFICATIONS.
  - ALL PAVEMENT MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", BCTD STANDARDS, AND FDOT DESIGN STANDARDS.
  - SEE FDOT INDEX NO 706-001 FOR PLACEMENT OF RPM'S (FOR BULLNOSE RPM TREATMENT, SEE LEGEND NO. 1)
  - RPM'S SHALL BE CLASS "B" OR EQUIVALENT, APPLIED WITH EPOXY OR BITUMINOUS ADHESIVE.
  - FDOT APPROVED SEALER SHALL BE USED WHEN APPLYING MARKINGS ON CONCRETE.
  - FOR BIKE LANE DETAILS SEE FDOT INDEX NO. 711-002.
  - MARKINGS IN AND ADJACENT TO BIKE LANES SHALL BE THERMOPLASTIC WITH A MIXTURE OF 50% GLASS SPHERES AND 50% SHARP SILICA SAND APPLIED AT A RATE DETERMINED BY THE MANUFACTURER'S SPECIFICATIONS.
  - EXISTING MARKINGS SHALL BE REMOVED BY WATER BLASTING OR SAND BLASTING.
  - ALL STOP LINES TO BE 4' BEHIND CROSSWALK OR SIDEWALK.
  - PAVEMENT MARKING REFLECTIVITY SHALL BE UNIFORM ACROSS THE ENTIRE STRIPE AND SHALL HAVE A MINIMUM REFLECTIVITY READING OF 250 MILLICANDELAS FOR WHITE AND 175 MILLICANDELAS FOR YELLOW.
  - ALL PRODUCTS MUST BE ON FDOT'S APPROVED PRODUCTS LIST (APL).
  - RPMS SHALL NOT BE INSTALLED ADJACENT TO BIKE LANES.
  - LONGITUDINAL CROSSWALK MARKINGS SHALL BE INSTALLED AT ALL CROSS STREETS ON COUNTY ROADS THAT ARE FOUR LANES OR GREATER.



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**REVISIONS**

DATE	DESCRIPTION
08-23-2018	UPDATED NOTES
11-24-2020	UPDATED NOTES
04-14-2021	UPDATED NOTES



**PUBLIC WORKS DEPARTMENT  
TRAFFIC ENGINEERING DIVISION**

DESIGN BY: CARMELO CARATOZZOLO, P.E. SCALE: NTS  
 DRAWN BY: STEPHON RAMOUTAR  
 CHECKED BY: ANDREW SEBO, P.E., PTOE

**PAVEMENT MARKINGS  
AND SIGNS  
DETAILS**

**SHEET  
NO.  
1 OF 1**

**REVISIONS**

NO.	DATE	DESCRIPTION

DESIGNED BY: H.A.  
 DRAWN BY: H.A.  
 CHECKED BY: S.J.R.  
 SCALE: 1"=100'

**bcc engineering**

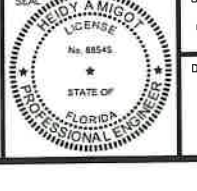
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**BONAVENTURE WATER SERVICE LINE  
AND WATER MAIN REPLACEMENTS**

AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD  
 TO ROYAL POINCIANA DRIVE AND  
 BETWEEN SW 169 TERRACE AND OAKWOOD LANE  
 WESTON, FLORIDA 33326

**PAVEMENT MARKING &  
SIGN DETAILS BROWARD  
COUNTY**



DATE: 01/28/2021  
 DRAWING NO.: PM-12

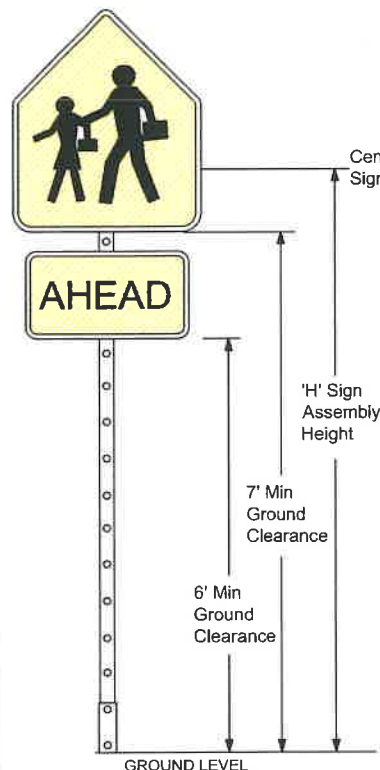
FILE LOCATION: H:\PROJECTS\0171231.07 BONNAVENTURE MAIN\0171231.07\_PMI2\_DET.DWG





**GUIDE TO USE THIS STANDARD:**

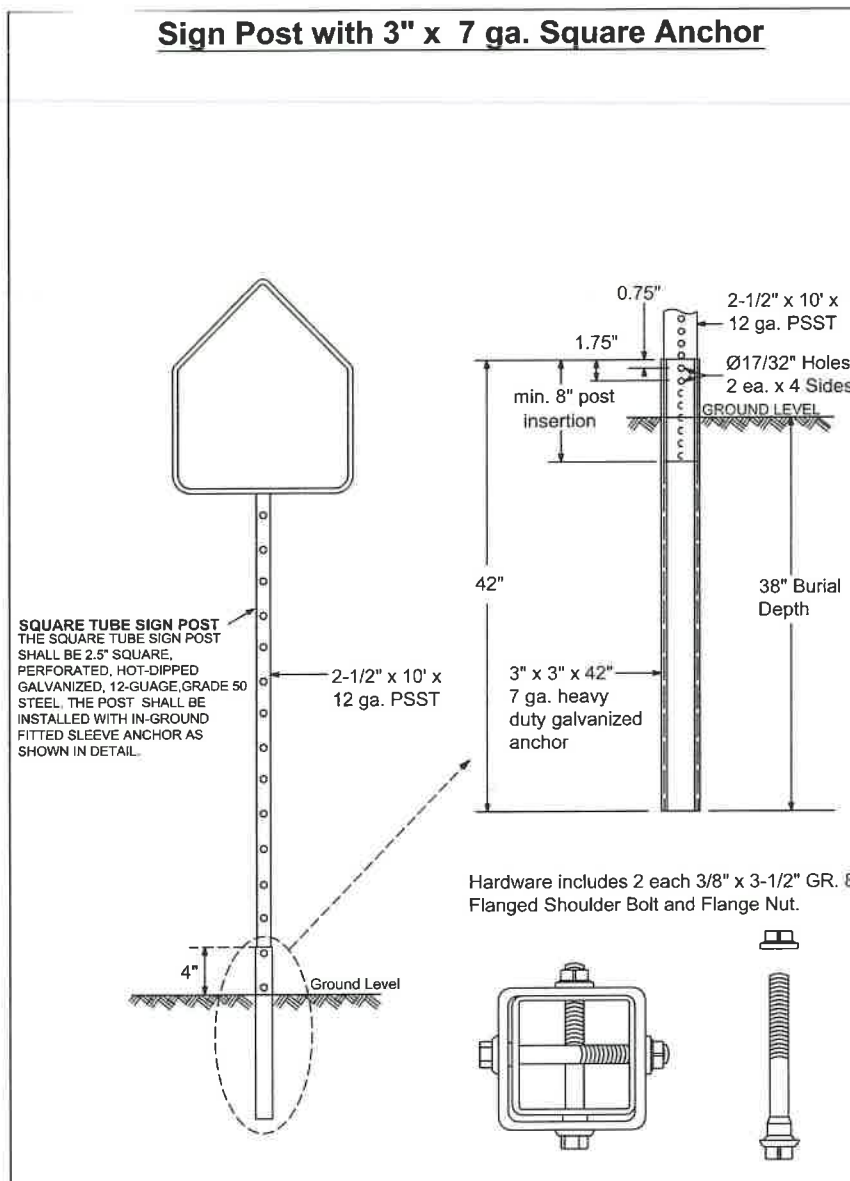
1. Calculate the Total Panel Area and the centroid 'C' for an individual sign or a sign cluster.
2. Determine the height 'H' from the groundline for the individual sign or the cluster.
3. Consult the Post Size Table and find the intersection point.
4. Design the post and the foundation according to the required Post Size and Assembly Details.



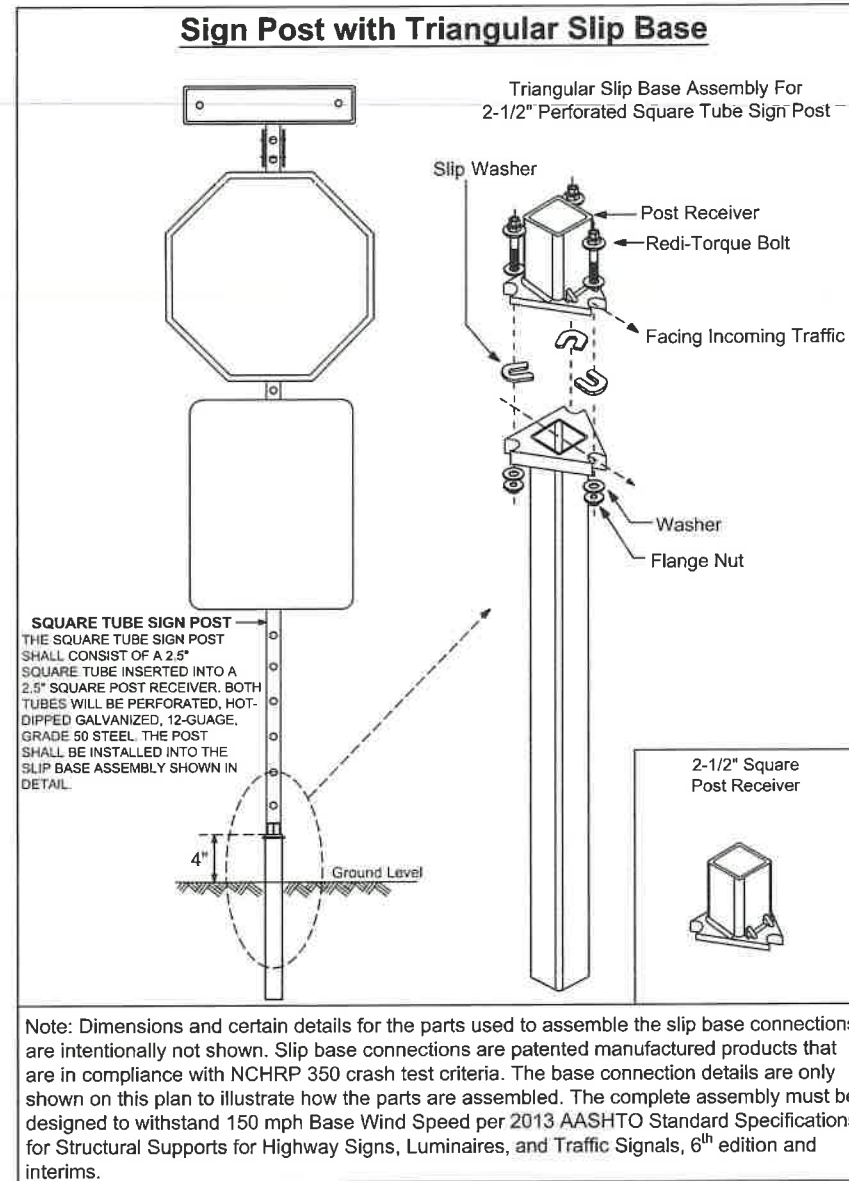
Total Panel Area (sf)	'H' Sign Assembly Height (ft) (measure from ground)				
	8	8.5	9	9.5	10
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20+					

\*REGARDLESS OF POST SIZE TABLE: IF A SIGN PANEL IS EQUAL TO OR GREATER THAN 4 FEET IN WIDTH, A TWO POST INSTALLATION IS REQUIRED WITH A TRIANGULAR SLIP BASE.

**Sign Post with 3" x 7 ga. Square Anchor**



**Sign Post with Triangular Slip Base**



Note: Dimensions and certain details for the parts used to assemble the slip base connections are intentionally not shown. Slip base connections are patented manufactured products that are in compliance with NCHRP 350 crash test criteria. The base connection details are only shown on this plan to illustrate how the parts are assembled. The complete assembly must be designed to withstand 150 mph Base Wind Speed per 2013 AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 6th edition and interims.

REVISIONS	
DATE	DESCRIPTION
03-21-2017	UPDATED POST SIZE
11-24-2020	ADDED POST SIZE NOTE
02-05-2021	UPDATED POST BASE HEIGHT



**PUBLIC WORKS DEPARTMENT  
TRAFFIC ENGINEERING DIVISION**  
 DESIGN BY: YVES D'ANJOU, P.E. SCALE: NTS  
 DRAWN BY: STEPHON RAMOUTAR  
 CHECKED BY: ANDREW SEBO, P.E., PTOE

**GROUND SIGN ASSEMBLY  
DETAILS**

SHEET NO.  
1 OF 1

REVISIONS		
NO.	DATE	DESCRIPTION

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 CHECKED BY: S.J.R.  
 SCALE: N/A

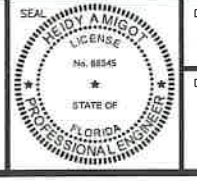


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 AND WATER MAIN REPLACEMENTS  
 AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD  
 TO ROYAL POINCIANA DRIVE AND  
 BETWEEN SW 169 TERRACE AND OAKWOOD LANE  
 WESTON, FLORIDA 33326

SHEET TITLE  
**PAVEMENT MARKING &  
SIGN DETAILS BROWARD  
COUNTY**



DATE: 01/28/2021  
 DRAWING NO.: PM-13

FILE LOCATION: H:\PROJECTS\071231.DT BONAVENTURE MAIN\071231.DT\_PM13-PM15\_DET.DWG  
 PLOT DATE: 1/31/2022 11:16 AM

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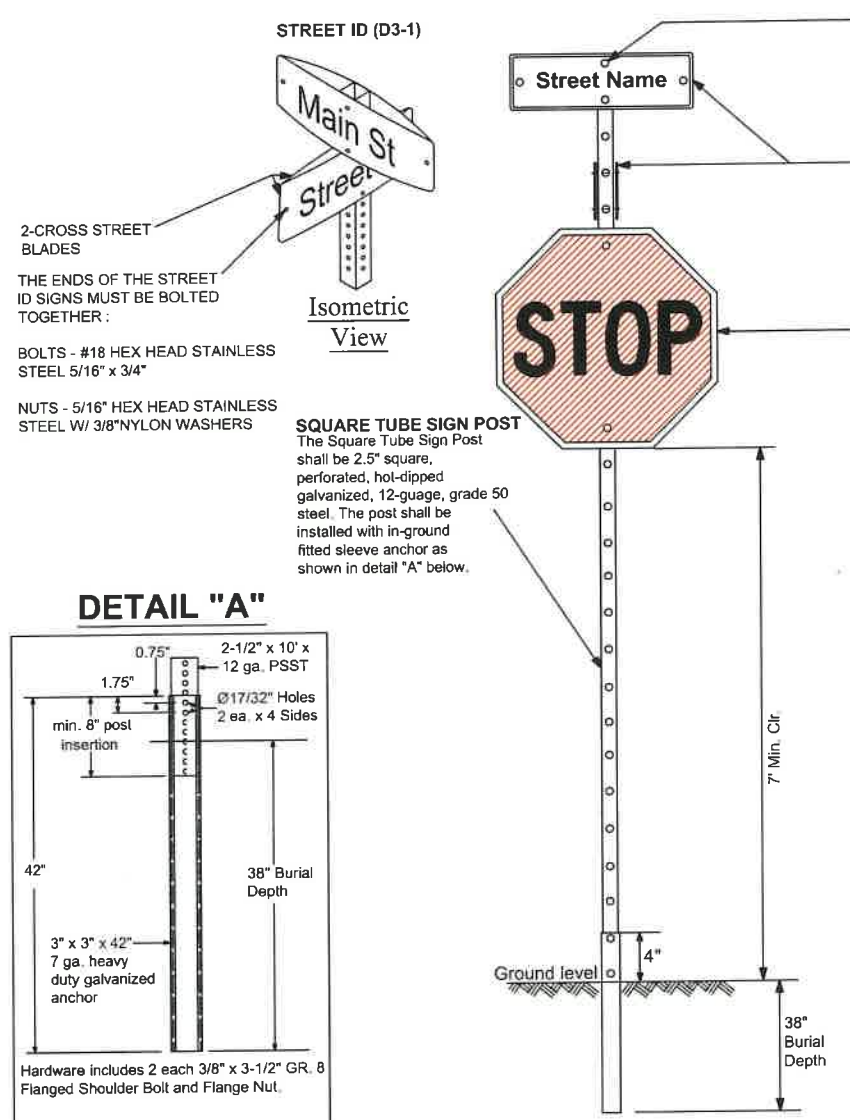


FOR SIGN ASSEMBLIES WITH MAXIMUM 8.75 SQUARE FOOT PANEL AREA

FOR SIGN ASSEMBLIES WITH GREATER THAN 8.75 SQUARE FOOT PANEL AREA WITH SUPPLEMENTAL SIGN

Typical Details

Typical Details



**STREET ID (D3-1) MATERIALS:**  
**LETTERS**  
 WHITE TYPE XI SHEETING  
 LETTERING OF STREET NAME SIGNS SHALL BE COMPOSED OF A COMBINATION OF LOWERCASE LETTERS WITH INITIAL UPPERCASE LETTERS

**BORDER**  
 BORDER WIDTHS WILL VARY BASED ON LETTER HEIGHTS

**LETTER HEIGHTS - BORDER WIDTHS**  
 4 INCH LETTER = 0.375 INCH BORDER WIDTH  
 6 INCH LETTER = 0.500 INCH BORDER WIDTH  
 8 INCH LETTER = 0.750 INCH BORDER WIDTH

**GREEN BACKGROUND**  
 GREEN TRANSLUCENT INK SILK-SCREENED CLEAR-COATED OR ELECTRO-CUT (EC) FILM OR EQUIVALENT

**LETTER SIZES**  
 SEE MUTCD TABLE 2D-2 (PG 163) FOR MINIMUM LETTER HEIGHTS  
 LENGTH VARIES BY STREET NAME

**HARDWARE**  
 BOLTS - #18 HEX HEAD STAINLESS STEEL 5/16" x 3"  
 NUTS - 5/16" STAINLESS STEEL W/ NYLON WASHERS.

**REGULATORY SIGN**  
 WHEN NO STREET ID IS PRESENT THE STOP SIGN SHALL BE MOUNTED FLUSH TO THE TOP OF THE POST WHILE MAINTAINING 7 FEET MIN. CLEARANCE BETWEEN BOTTOM OF SIGN AND GROUND LEVEL. ANY SIGN INSTALLED BACK TO BACK WITH THE STOP SIGN SHALL BE SMALLER THAN THE STOP SIGN.

**STOP, DO NOT ENTER OR YIELD**  
 WHITE TYPE XI SHEETING  
 PRESSURE-SENSITIVE RED TRANSLUCENT INK SILK-SCREENED CLEAR-COATED OR ELECTRO-CUT (EC) FILM OR EQUIVALENT.

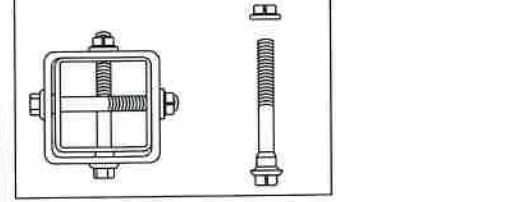
**HARDWARE**  
 FRONT: #18 HEX HEAD STAINLESS STEEL 5/16" x 3" BOLT W/ 3/8" NYLON WASHER  
 BACK: 5/16" HEX HEAD STAINLESS STEEL NUT W/ 3/8" STAINLESS STEEL WASHER.

**NOTES:**  
 1. ALL TYPE XI SHEETING UTILIZED MUST BE ON THE FDOT APL LIST.  
 2. SEE BCTED TECHNICAL POLICY MEMO #TPM - 16-001 - SPECIFICATIONS FOR RETROREFLECTIVE TRAFFIC SIGN MATERIALS.



**SQUARE TUBE SIGN POST**  
 The Square Tube Sign Post shall consist of a 2.5" square tube inserted into a 2.5" square post receiver. Both tubes will be perforated, hot-dipped galvanized, 12-gauge, grade 50 steel. The post shall be installed into the slip base assembly shown in detail "B".

**Notes:**  
 1. Dimensions and certain details for the parts used to assemble the slip base connections are intentionally not shown. Slip base connections are patented manufactured products that are in compliance with NCHRP 350 crash test criteria. The base connection details are only shown on this plan to illustrate how the parts are assembled. The complete assembly must be designed to withstand 150 mph Base Wind Speed per 2013 AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 6<sup>th</sup> edition and interims.  
 2. For standard ground sign installation, see detail entitled "Ground Sign Assembly Details".



REVISIONS	
DATE	DESCRIPTION
04-09-2019	UPDATED MATERIAL NOTES
02-28-2020	ADDED ISOMETRIC VIEW
02-05-2021	UPDATED POST BASE HEIGHT



**PUBLIC WORKS DEPARTMENT  
 TRAFFIC ENGINEERING DIVISION**

DESIGN BY: CARMELO CARATTOZZOLO, P.E. SCALE: NTS  
 DRAWN BY: STEPHON RAMOUTAR  
 CHECKED BY: ANDREW SEBO, P.E., PTOE

**STOP SIGN AND STREET IDENTIFICATION ASSEMBLY  
 TYPICAL DETAILS**

**SHEET NO.**  
 1 OF 1

REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY: H.A.  
 DRAWN BY: H.A.  
 CHECKED BY: S.J.R.  
 SCALE: N/A

**bcc engineering**

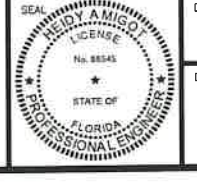
6401 SW 87th Ave, Ste. 200  
 Miami, Florida 33173  
 Tel: 305.670.2350 Fax: 305.670.2351  
 www.bcceng.com  
 Certificate of Authorization No. 7184



**BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS**

AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

**PAVEMENT MARKING & SIGN DETAILS BROWARD COUNTY**



DATE: 01/28/2021  
 DRAWING NO. PM-14

This item has been digitally signed and sealed by Heidi Amigot, PE. On 02/01/2022 using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

LEAVE BLANK - FOR CITY USE ONLY

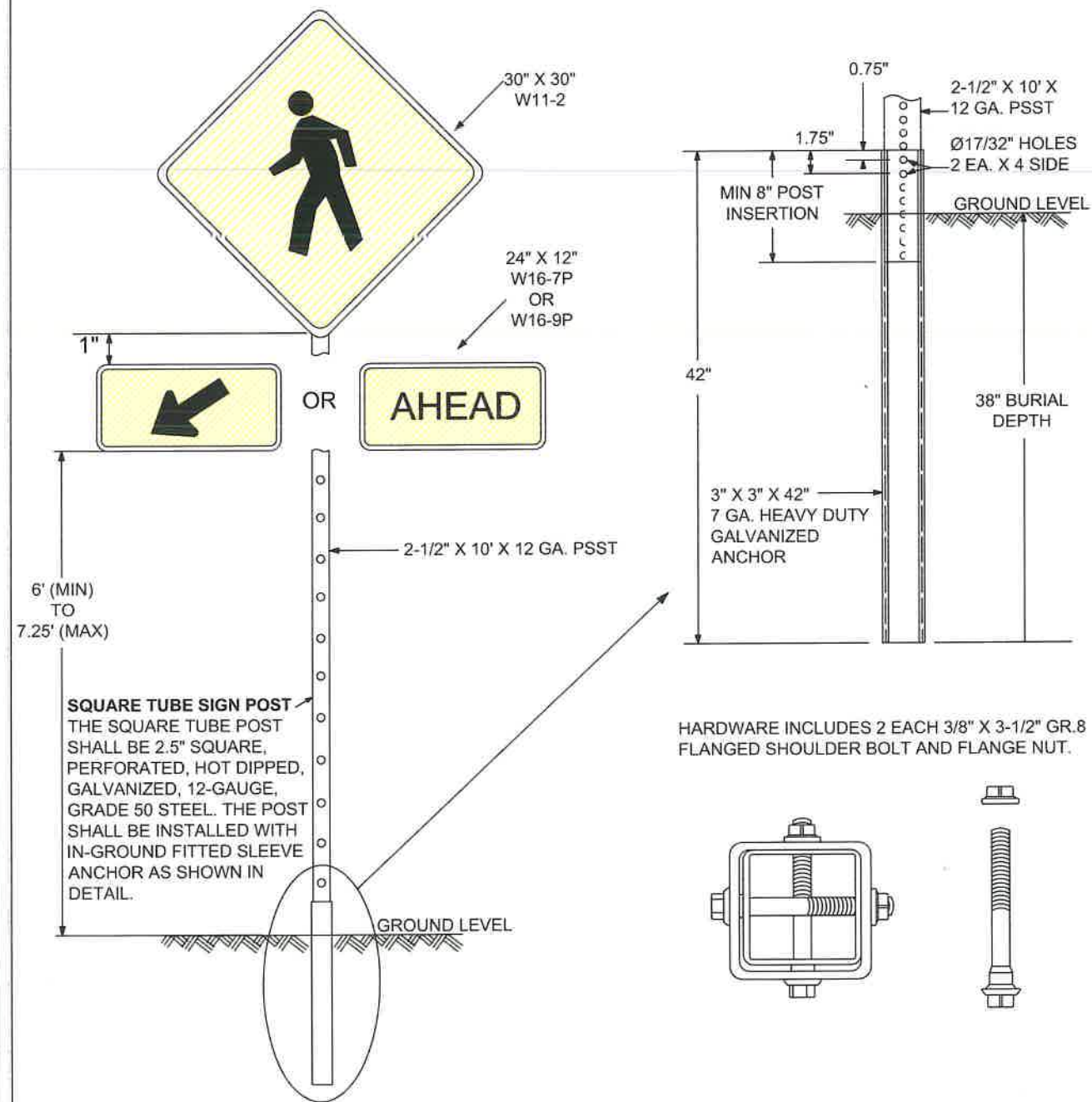


PLOT DATE: 1/28/2021 3:21 PM

BCTED REFERENCE No. 201214060



W11-2 (30"x 30") & SUPPLEMENTAL (24"x12") SIGN ASSEMBLY



- SCHOOL ZONE AND PEDESTRIAN SIGNS SHALL BE COMPRISED OF REFLECTIVE FLUORESCENT YELLOW-GREEN SHEETING. (SEE BCTED TECHNICAL POLICY MEMO #TPM-16-001 ON BCTED WEBSITE)
- NOT FOR USE WITH RECTANGULAR RAPID FLASHING BEACONS



PUBLIC WORKS DEPARTMENT  
TRAFFIC ENGINEERING DIVISION

W11-2 (30"x 30") & SUPPLEMENTAL (24"x 12") SIGN ASSEMBLY	
REVISION: 11-15-18	SCALE: NTS
	DESIGN BY: YVES D'ANJOU, P.E.
	DRAWN BY: STEPHON RAMOUTAR
SHEET 1 OF 1	CHECKED BY: ANDREW SEBO, P.E., PTOE

This item has been digitally signed and sealed by Heidi Amigot, PE. On 02/01/2022 using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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FILE LOCATION: H:\PROJECTS\0171231\07 BONAVENTURE MAIN\0171231\_07\_PM13-PM15\_DET.DWG

REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY: H.A.  
DRAWN BY: H.A.  
CHECKED BY: S.J.R.  
SCALE: N/A

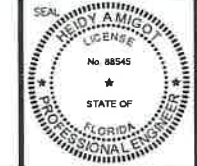


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BONAVENTURE WATER SERVICE LINE AND WATER MAIN REPLACEMENTS  
AREA 1 AND AREA 2, BETWEEN SADDLE CLUB ROAD TO ROYAL POINCIANA DRIVE AND BETWEEN SW 169 TERRACE AND OAKWOOD LANE WESTON, FLORIDA 33326

SHEET TITLE  
PAVEMENT MARKING & SIGN DETAILS BROWARD COUNTY



DATE: 01/28/2021  
DRAWING NO. PM-15