

# WATER AND SEWER IMPROVEMENTS FOR RIVERLAND PARCEL B PLAT FOUR

## CIVIL CONSTRUCTION PLANS & SPECIFICATIONS SECTIONS 21, TOWNSHIP 37 S, RANGE 39 E CITY OF PORT ST. LUCIE, FLORIDA

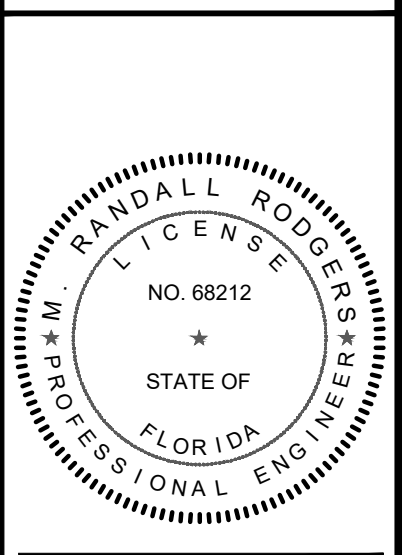


**VELCON**  
ENGINEERING & SURVEYING, LLC  
1449 NW COMMERCE CENTRE DR  
PORT ST. LUCIE, FL 34986  
PHONE: (772) 879-0477  
FIRE C.O.A. # 3222

| BY: | DATE:    | COMMENT:                          |
|-----|----------|-----------------------------------|
| SG  | 05/05/21 | UPDATED WATER MAIN CONNECTION     |
| SG  | 06/23/21 | PER SPRC COMMENTS                 |
| JM  | 09/14/21 | PER GL MARKUPS                    |
| SG  | 10/22/21 | UPDATED LIGHT POLE PER GL MARKUPS |

PROJECT:  
**RIVERLAND PARCEL B  
PLAT FOUR**  
CITY OF PORT ST. LUCIE,  
FLORIDA

CLIENT:  
**RIVERLAND ASSOCIATES II  
LLLP**  
CITY OF PORT ST. LUCIE,  
FLORIDA



M. RANDALL RODGERS, PE  
FLORIDA LICENSE No. 68212  
10/25/21

PROJECT No.: 21-1013  
DRAWN BY: SOG  
CHECKED BY: RR  
DATE: 10/25/2021  
CAD ID.: 21-1013 COVER

SHEET TITLE:  
**COVER SHEET**

SHEET NUMBER:  
**01**

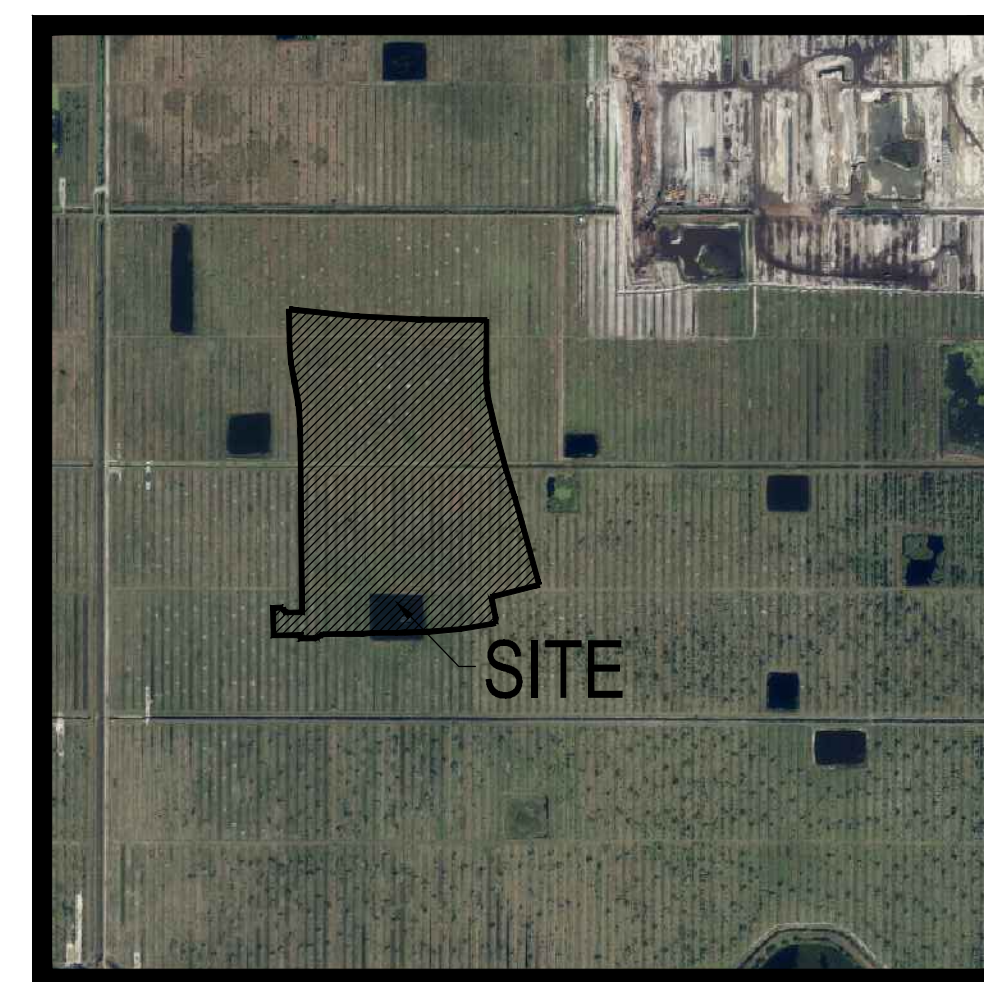
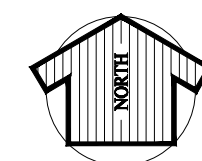
### INDEX OF DRAWINGS

| SHEET NO. | DESCRIPTION                    |
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| 01        | COVER SHEET                    |
| 02 - 09   | WATER AND SEWER PLANS          |
| 10        | LIFT STATION DETAILS           |
| 11        | OVERALL WATER SAMPLE POINT MAP |
| 12 - 15   | PROFILES                       |

NOTE:  
PSLUSD STANDARDS AND DETAILS EFFECTIVE 2019



LOCATION MAP  
N.T.S.



VICINITY AERIAL MAP  
N.T.S.

### PLAN FOR RIVERLAND ASSOCIATES II LLLP

## ENGINEER & SURVEYOR



**ENGINEERING & SURVEYING, LLC.**

1449 NW COMMERCE CENTRE DR  
PORT ST. LUCIE, FL 34986  
PHONE: (772) 879-0477

ENGINEER'S PROJECT NO. 21-1013

**LEGAL DESCRIPTION:**  
A PARCEL OF LAND, BEING A PORTION OF SECTION 21, TOWNSHIP 37 SOUTH, RANGE 39 EAST, CITY OF ST. LUCIE, ST. LUCIE COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGIN AT THE NORTHWEST CORNER OF TRACT "L8", RIVERLAND PARCEL B - PLAT ONE, AS RECORDED IN PLAT BOOK 97, PAGE 1, PUBLIC RECORDS OF ST. LUCIE COUNTY; THENCE ALONG THE BOUNDARY OF SAID RIVERLAND PARCEL B - PLAT ONE FOR THE FOLLOWING TEN (10) DESCRIBED COURSES, SOUTH 00°15'12" WEST, A DISTANCE OF 328.96 FEET TO THE POINT OF CURVATURE OF A CURVE, CONCAVE EASTERLY, HAVING A RADIUS OF 353.00 FEET, A CENTRAL ANGLE OF 13°17'42"; THENCE SOUTHERLY ALONG THE ARC OF SAID CURVE TO THE LEFT, A DISTANCE OF 81.91 FEET TO A POINT OF TANGENCY; THENCE SOUTH 13°02'30" EAST, A DISTANCE OF 191.62 FEET TO THE POINT OF CURVATURE OF A CURVE, CONCAVE EASTERLY, HAVING A RADIUS OF 2353.00 FEET, A CENTRAL ANGLE OF 04°28'24"; THENCE SOUTHERLY ALONG THE ARC OF SAID CURVE TO THE LEFT, A DISTANCE OF 183.70 FEET TO A POINT OF TANGENCY; THENCE SOUTH 17°30'54" EAST, A DISTANCE OF 158.86 FEET TO THE POINT OF CURVATURE OF A CURVE, CONCAVE WESTERLY, HAVING A RADIUS OF 3147.00 FEET, A CENTRAL ANGLE OF 02°23'18"; THENCE SOUTHERLY ALONG THE ARC OF SAID CURVE TO THE RIGHT, A DISTANCE OF 131.18 FEET TO A POINT OF TANGENCY; THENCE SOUTH 15°07'36" EAST, A DISTANCE OF 339.63 FEET TO THE POINT OF NON-RADIAL INTERSECTION WITH A CURVE, CONCAVE NORTHERLY, HAVING A RADIAL BEARING OF NORTH 17°14'29" WEST, A RADIUS OF 2430.00 FEET AND A CENTRAL ANGLE OF 06°02'11"; THENCE WESTERLY ALONG THE ARC OF SAID CURVE TO THE RIGHT, A DISTANCE OF 256.01 FEET TO THE POINT OF INTERSECTION WITH A RADIAL LINE; THENCE SOUTH 11°12'18" EAST, A DISTANCE OF 110.00 FEET; THENCE SOUTH 01°58'25" EAST, A DISTANCE OF 30.39 FEET TO THE POINT OF NON-RADIAL INTERSECTION WITH A CURVE, CONCAVE NORTHERLY, HAVING A RADIAL BEARING OF NORTH 11°05'47" WEST, A RADIUS OF 2570.00 FEET AND A CENTRAL ANGLE OF 08°05'53"; THENCE WESTERLY ALONG THE ARC OF SAID CURVE TO THE RIGHT, A DISTANCE OF 363.24 FEET TO THE POINT OF COMPOUND CURVATURE OF A CURVE, CONCAVE NORTHERLY, HAVING A RADIUS OF 2570.00 FEET, A CENTRAL ANGLE OF 02°31'11"; THENCE WESTERLY ALONG THE ARC OF SAID CURVE TO THE RIGHT, A DISTANCE OF 113.02 FEET TO A POINT OF TANGENCY; THENCE SOUTH 89°31'18" WEST, A DISTANCE OF 41.81 FEET; THENCE SOUTH 89°31'18" WEST, A DISTANCE OF 126.00 FEET; THENCE SOUTH 83°48'40" WEST, A DISTANCE OF 50.25 FEET; THENCE SOUTH 89°31'18" WEST, A DISTANCE OF 202.94 FEET TO THE POINT OF CURVATURE OF A CURVE, CONCAVE SOUTHEASTERLY, HAVING A RADIUS OF 30.00 FEET, A CENTRAL ANGLE OF 48°11'23"; THENCE SOUTHWESTERLY ALONG THE ARC OF SAID CURVE TO THE LEFT, A DISTANCE OF 25.23 FEET TO THE POINT OF REVERSE CURVATURE OF A CURVE, CONCAVE NORTHWESTERLY, HAVING A RADIUS OF 30.00 FEET, A CENTRAL ANGLE OF 48°11'23"; THENCE SOUTHWESTERLY ALONG THE ARC OF SAID CURVE TO THE RIGHT, A DISTANCE OF 25.23 FEET TO A POINT OF TANGENCY; THENCE SOUTH 89°31'18" WEST, A DISTANCE OF 75.00 FEET; THENCE NORTH 00°28'42" WEST, A DISTANCE OF 16.17 FEET; THENCE SOUTH 89°31'18" WEST, A DISTANCE OF 143.20 FEET; THENCE NORTH 00°28'42" WEST, A DISTANCE OF 143.83 FEET; THENCE NORTH 89°31'18" EAST, A DISTANCE OF 50.00 FEET TO THE POINT OF RADIAL INTERSECTION WITH A CURVE, CONCAVE NORTHEASTERLY, HAVING A RADIUS OF 25.00 FEET AND A CENTRAL ANGLE OF 90°00'00"; THENCE SOUTHEASTERLY ALONG THE ARC OF SAID CURVE TO THE LEFT, A DISTANCE OF 39.27 FEET TO A POINT OF TANGENCY; THENCE NORTH 89°31'18" EAST, A DISTANCE OF 74.00 FEET; THENCE NORTH 00°28'42" WEST, A DISTANCE OF 950.50 FEET TO THE POINT OF CURVATURE OF A CURVE, CONCAVE WESTERLY, HAVING A RADIUS OF 1124.00 FEET, A CENTRAL ANGLE OF 13°09'36"; THENCE NORTHERLY ALONG THE ARC OF SAID CURVE TO THE LEFT, A DISTANCE OF 258.17 FEET TO THE POINT OF REVERSE CURVATURE OF A CURVE, CONCAVE EASTERLY, HAVING A RADIUS OF 876.00 FEET, A CENTRAL ANGLE OF 13°09'36"; THENCE NORTHERLY ALONG THE ARC OF SAID CURVE TO THE RIGHT, A DISTANCE OF 201.20 FEET TO A POINT OF TANGENCY; THENCE NORTH 00°28'42" WEST, A DISTANCE OF 172.99 FEET TO THE POINT OF NON-RADIAL INTERSECTION WITH A CURVE, CONCAVE NORTHERLY, HAVING A RADIAL BEARING OF NORTH 07°15'32" EAST, A RADIUS OF 7080.00 FEET AND A CENTRAL ANGLE OF 08°20'04"; THENCE EASTERLY ALONG SOUTH LINE OF RIVERLAND PARCEL A - PLAT FIFTEEN, AS RECORDED IN PLAT BOOK 89, PAGE 14, OF SAID PUBLIC RECORDS AND ALONG THE ARC OF SAID CURVE TO THE LEFT, A DISTANCE OF 1029.89 FEET TO THE POINT OF BEGINNING

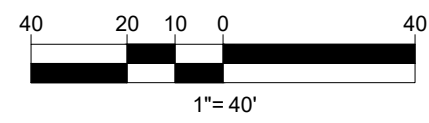
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CITY OF PSL PROJECT NO. P21-118  
PSLUSD FILE NO. 5268E



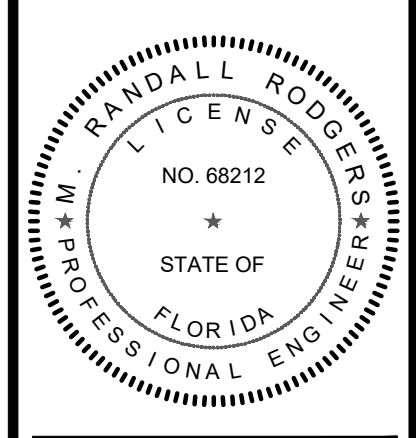


| REVISIONS: |          |
|------------|----------|
| BY:        | DATE:    |
| SG         | 06/23/21 |

| COMMENT: |      |
|----------|------|
| PER      | SPRC |
| COMMENTS |      |
|          |      |

PROJECT: RIVERLAND PARCEL B  
 PLAT FOUR  
 CITY OF PORT ST. LUCIE, FLORIDA

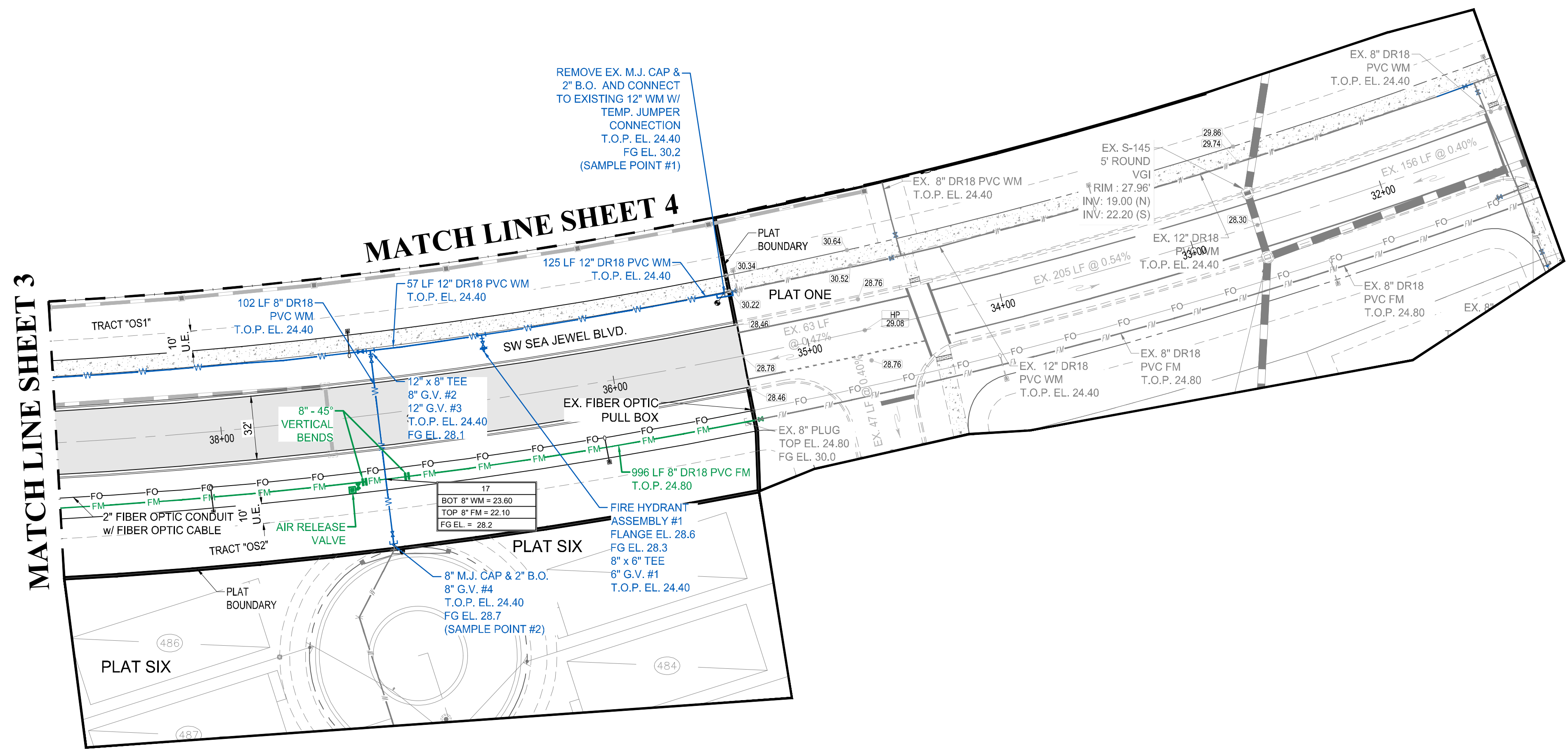
CLIENT: RIVERLAND ASSOCIATES II  
 LLLP  
 CITY OF PORT ST. LUCIE, FLORIDA



M. RANDALL RODGERS, PE  
 FLORIDA LICENSE NO. 68212  
 10/25/21

PROJECT NO.: 21-1013  
 DRAWN BY: SOC  
 CHECKED BY: RR  
 DATE: 10/25/2021  
 CAD ID.: 21-1013-WS PLAN

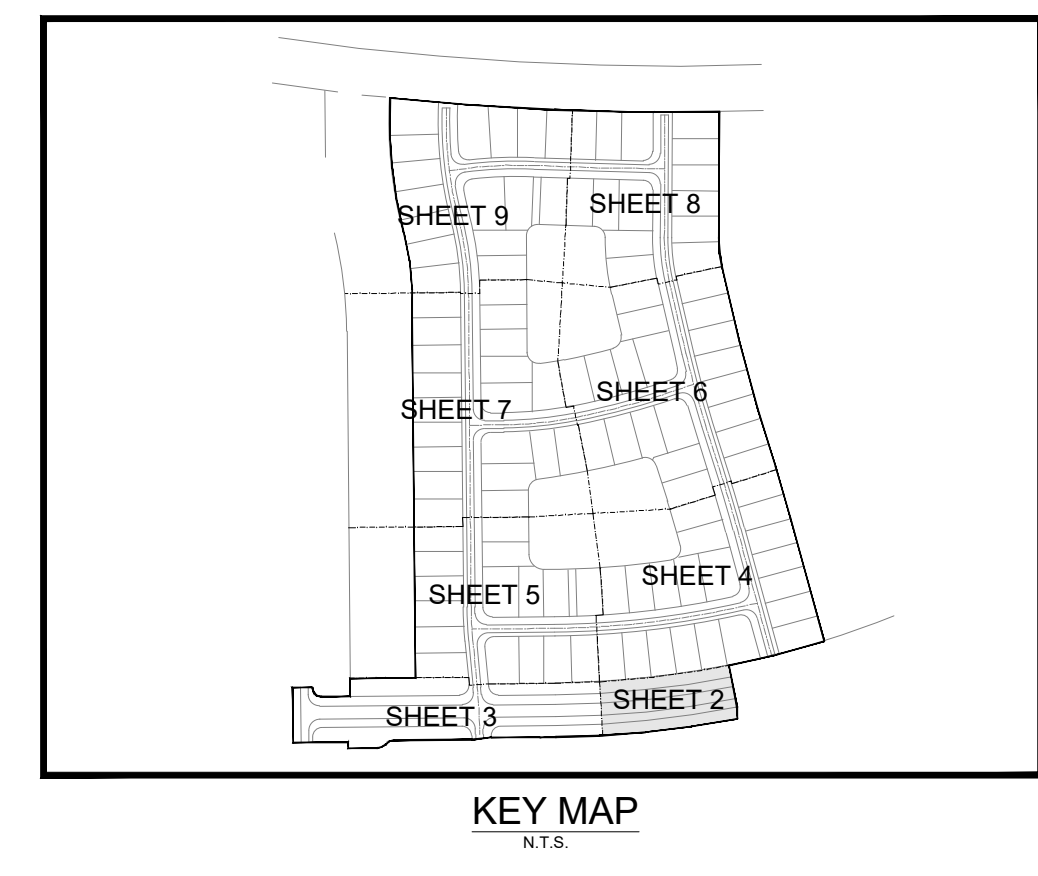
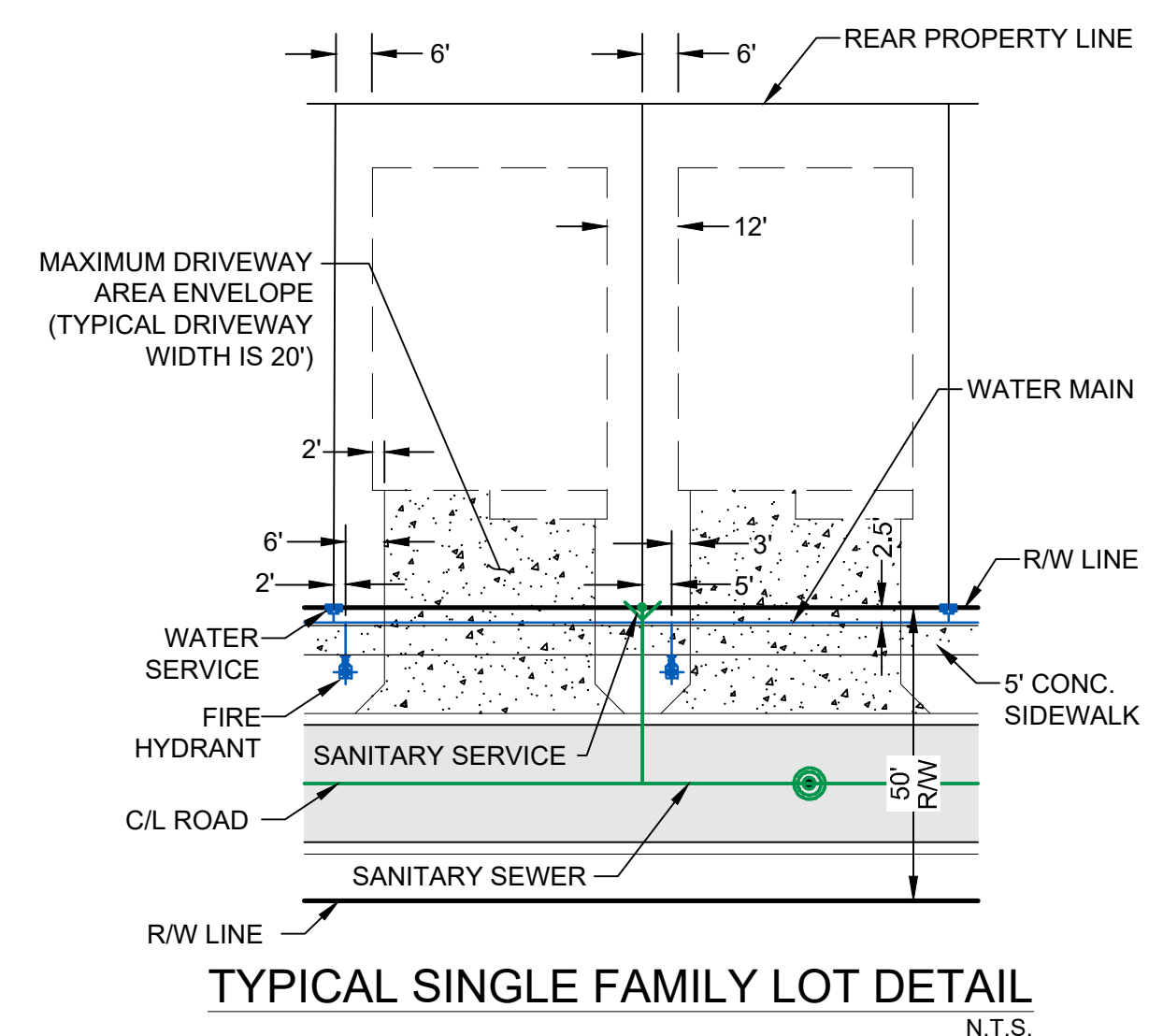
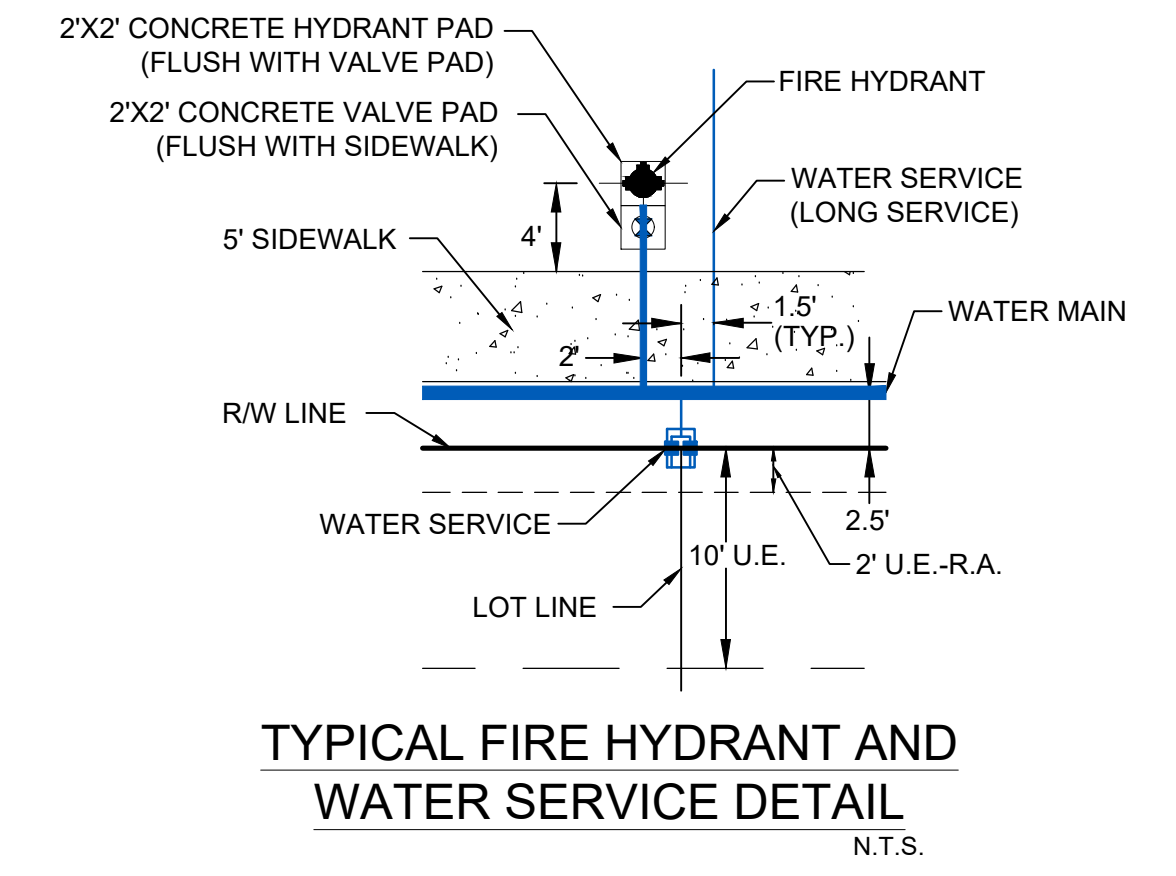
SHEET TITLE: WATER AND SEWER PLAN  
 SHEET NUMBER: 02



**LEGEND**

|  |                   |          |
|--|-------------------|----------|
| WATER MAIN WITH VALVE  | SSS P.O.S. (TYP.) | MH #     |
| SINGLE WATER SERVICE, DOUBLE WATER SERVICE AND FIRE HYDRANT  | DWS P.O.S. (TYP.) | RIM EL.  |
|  |                   | INV. EL. |
| SANITARY SEWER MAIN WITH SINGLE SEWER SERVICE, DOUBLE WATER SERVICE, MANHOLE, CALLOUT AND FLOW DIRECTION | SSS P.O.S. (TYP.) |          |
|  | DSS P.O.S. (TYP.) |          |
| STORM SEWER WITH CATCH BASIN   |                   |          |
| BACTERIOLOGICAL SAMPLE POINT   |                   |          |
| STREET LIGHTS  |                   |          |
| LOT NUMBER   | #                 |          |
| BUFFER EASEMENT  | B.E.              |          |
| DRAINAGE EASEMENT  | D.E.              |          |
| DRAINAGE SWALE EASEMENT  | D.S.E.            |          |
| ELEVATION  | EL.               |          |
| FINISHED GRADE   | FG                |          |
| FIRE HYDRANT   | F.H.              |          |
| FORCE MAIN   | FM                |          |
| GATE VALVE   | G.V.              |          |
| INVERT   | INV.              |          |
| LANDSCAPE EASEMENT   | L.E.              |          |
| LAKE MAINTENANCE ACCESS EASEMENT   | L.M.A.E.          |          |
| LAKE MAINTENANCE EASEMENT  | L.M.E.            |          |
| MANHOLE  | MH                |          |
| OPEN SPACE   | O.S.              |          |
| POINT OF SERVICE   | P.O.S.            |          |
| CITY OF PORT ST. LUCIE UTILITY EASEMENT  | P.S.L.U.E.        |          |
| CITY OF PORT ST. LUCIE UTILITY SYSTEMS DEPARTMENT  | PSLUSD            |          |
| SANITARY SEWER   | SAN               |          |
| TOP OF PIPE  | T.O.P.            |          |
| UTILITY EASEMENT   | U.E.              |          |
| UTILITY EASEMENT - RESTRICTED AREA (SEE "U.E." PLAT DEDICATION)  | U.E.-R.A.         |          |
| WATER MAIN   | WM                |          |

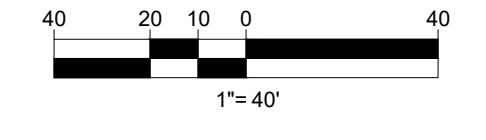
- NOTES:**
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF PORT ST. LUCIE UTILITY SYSTEMS DEPARTMENT (PSLUSD) UTILITY STANDARDS MANUAL, 2019 EDITION AS WELL AS THE PSLUSD UTILITY STANDARD DETAILS, 2019 EDITION. A COPY OF THE 2019 EDITION OF THE PSLUSD UTILITY STANDARDS MANUAL AND UTILITY STANDARD DETAILS SHALL BE AVAILABLE ON-SITE AT ALL TIMES UTILITY RELATED WORK IS BEING PERFORMED.
  - PRIOR TO CONSTRUCTION IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY (ELEVATION AND LOCATION) ALL EXISTING UTILITIES. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR (EOR) TO CONTINUATION OF WORK.
  - THERE SHALL BE NO FIELD CHANGES OR DEVIATIONS FROM DESIGN WITHOUT PRIOR WRITTEN APPROVAL OF THE PSLUSD AND EOR.
  - ELEVATIONS - ALL ELEVATIONS REFER TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
  - ALL WATER AND WASTEWATER PRESSURE MAINS SHALL BE PVC, C-900, DR18 (PRESSURE CLASS 235).
  - ALL GRAVITY SEWER PIPE, FITTINGS AND SERVICE LINES SHALL BE PVC, SDR 26 AND, AS A MINIMUM, CONFORM TO ASTM D-3034. FOR DEPTHS GREATER THAN 15', THE PIPE, JOINTS AND FITTINGS SHALL MEET THE SPECIFICATIONS FOR PRESSURE MAINS.
  - VALVES SHALL NOT BE PLACED IN CURBS, GUTTERS, SIDEWALKS, PARKING SPACES AND HANDICAP RAMPS. WHERE CONCRETE VALVE PADS TO BE OWNED BY PSLUSD ARE ADJACENT TO SIDEWALKS, THE PADS SHALL BE POURED AS PART OF THE SIDEWALK POUR WITH NO JOINTS.
  - PRIOR TO FINAL CERTIFICATION AND THE ASSURANCE OF FINAL WATER METERS FOR THIS PLAT, THE WATER MAIN SHALL BE LOOPED.



CITY OF PSL PROJECT NO. P21-118  
 PSLUSD FILE NO. 5268E

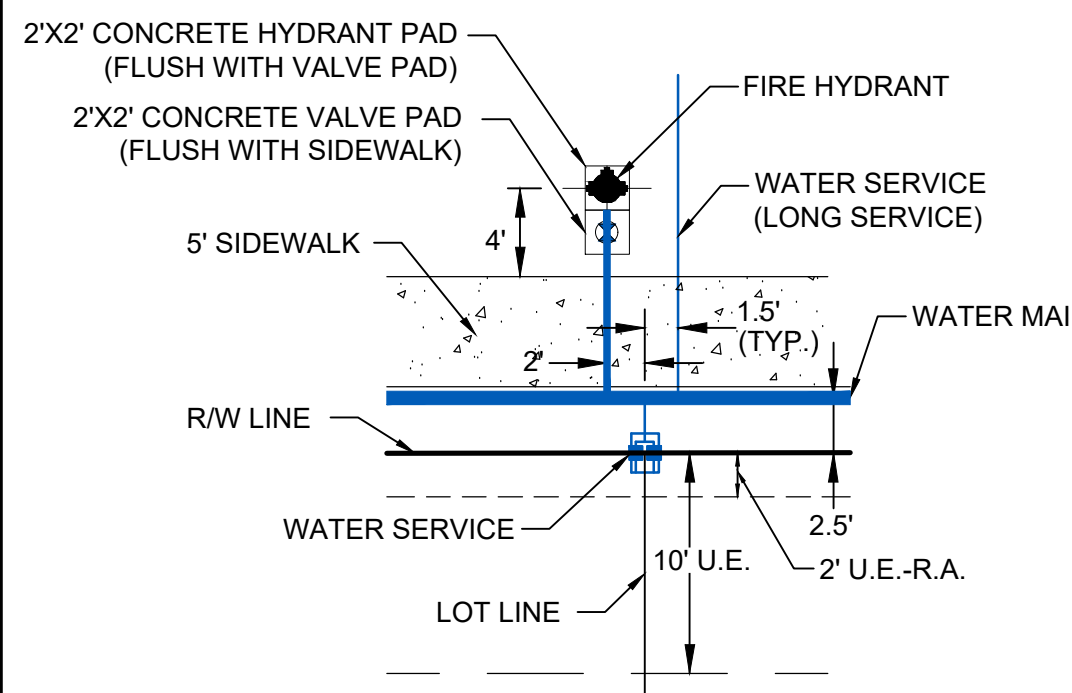
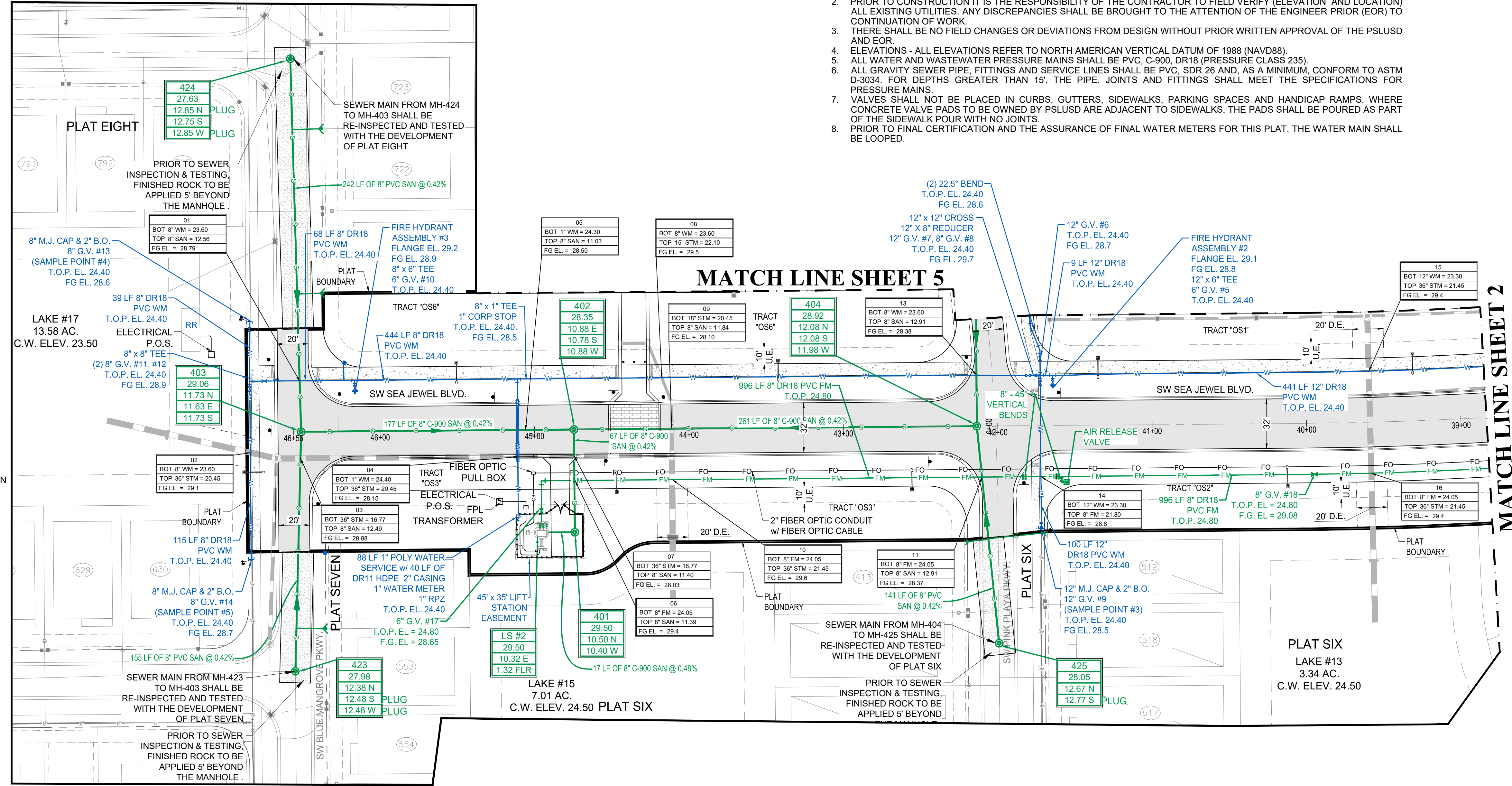
Printed on Monday, October 25, 2021, 3:08 PM by Shirley Gomez





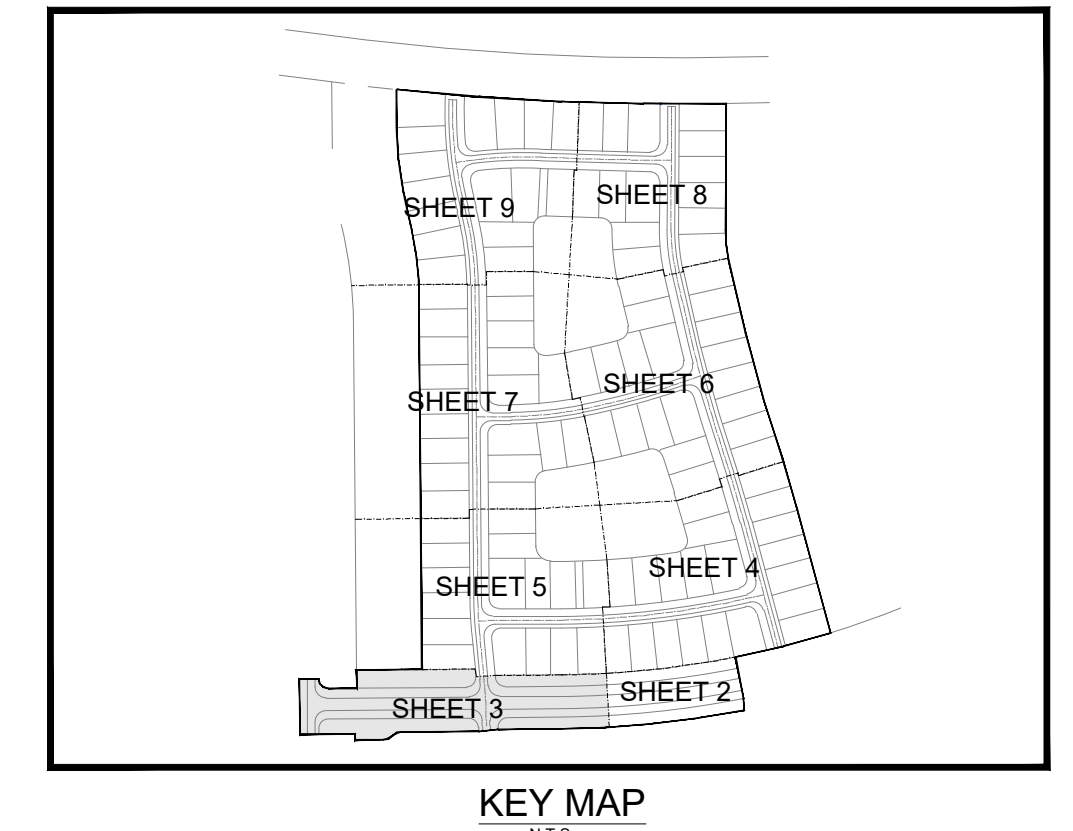
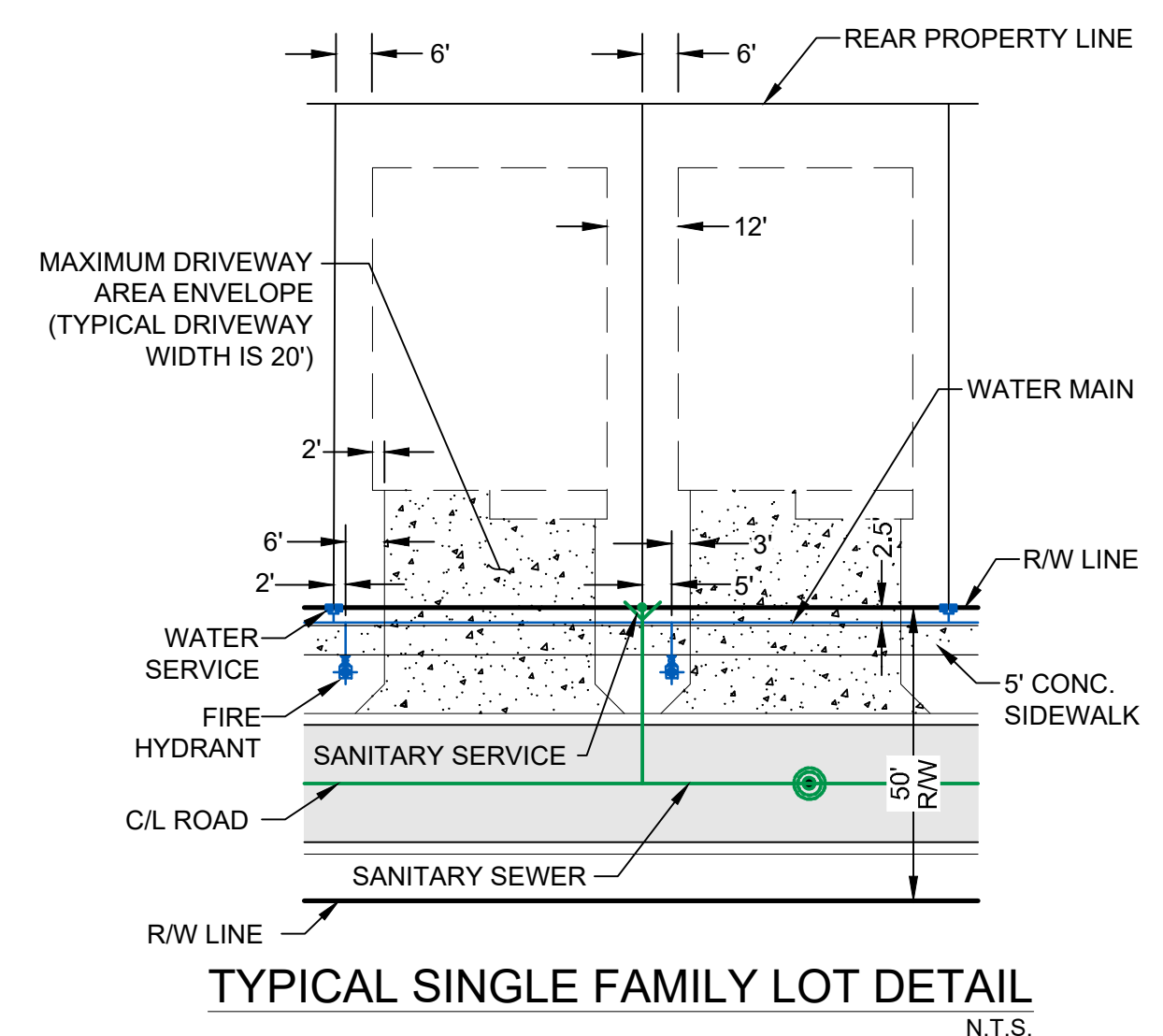
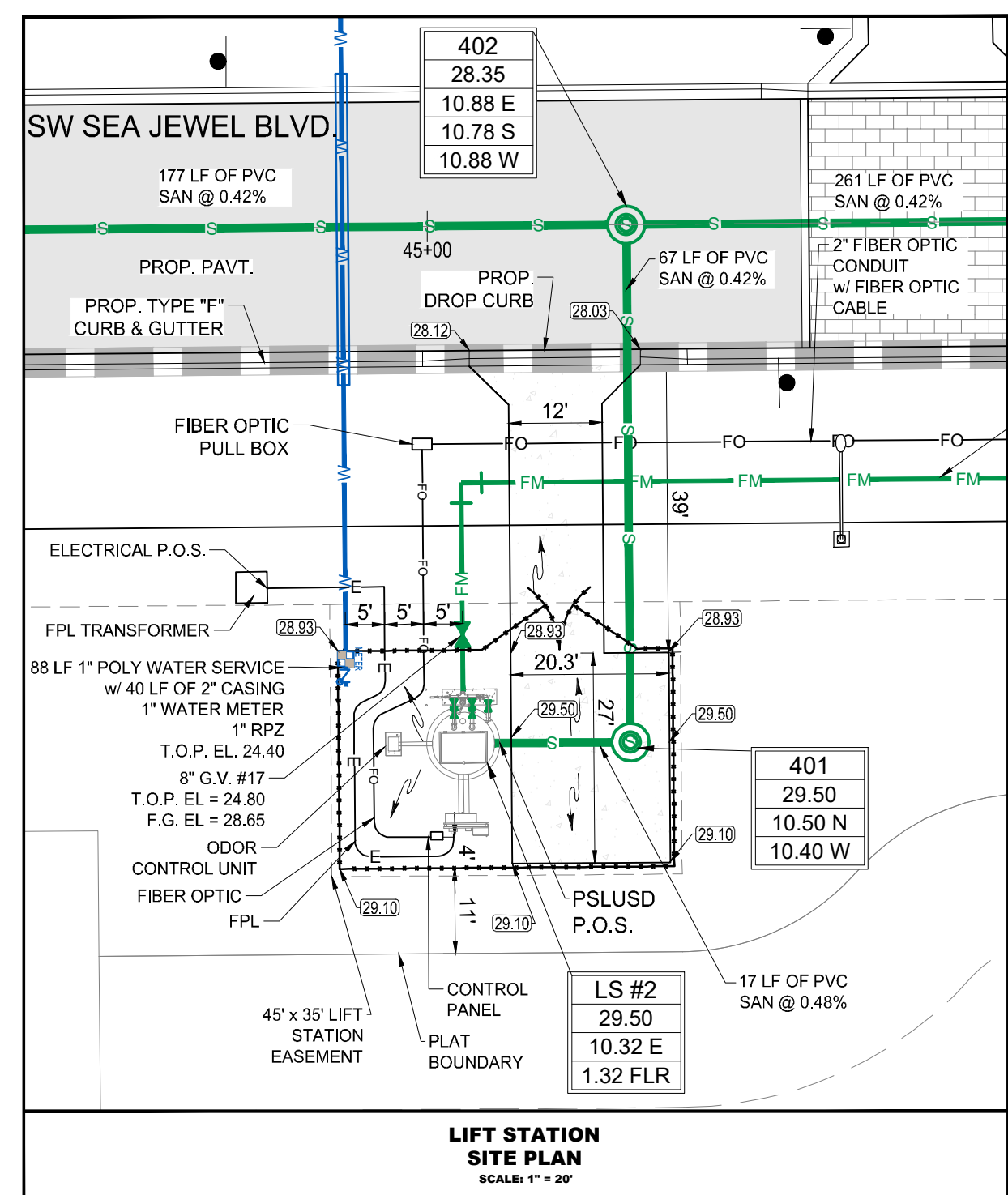
| REVISIONS: | BY:      | DATE: | COMMENT:                          |
|------------|----------|-------|-----------------------------------|
| SG         | 06/23/21 |       | PER SPRC COMMENTS                 |
| SG         | 08/24/21 |       | PER SPRC COMMENTS                 |
| JM         | 09/14/21 |       | PER GL MARKUPS                    |
| SG         | 10/22/21 |       | UPDATED LIGHT POLE PER GL MARKUPS |

- NOTES:
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF PORT ST. LUCIE UTILITY SYSTEMS DEPARTMENT (PSLUSD) UTILITY STANDARDS MANUAL, 2019 EDITION AS WELL AS THE PSLUSD UTILITY STANDARD DETAILS, 2019 EDITION. A COPY OF THE 2019 EDITION OF THE PSLUSD UTILITY STANDARDS MANUAL AND UTILITY STANDARD DETAILS SHALL BE AVAILABLE ON-SITE AT ALL TIMES UTILITY RELATED WORK IS BEING PERFORMED.
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  - THERE SHALL BE NO FIELD CHANGES OR DEVIATIONS FROM DESIGN WITHOUT PRIOR WRITTEN APPROVAL OF THE PSLUSD AND EOR.
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  - ALL WATER AND WASTEWATER PRESSURE MAINS SHALL BE PVC, C-900, DR18 (PRESSURE CLASS 235).
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  - VALVES SHALL NOT BE PLACED IN CURBS, GUTTERS, SIDEWALKS, PARKING SPACES AND HANDICAP RAMPS. WHERE CONCRETE VALVE PADS TO BE OWNED BY PSLUSD ARE ADJACENT TO SIDEWALKS, THE PADS SHALL BE POURED AS PART OF THE SIDEWALK POUR WITH NO JOINTS.
  - PRIOR TO FINAL CERTIFICATION AND THE ASSURANCE OF FINAL WATER METERS FOR THIS PLAT, THE WATER MAIN SHALL BE LOOPED.



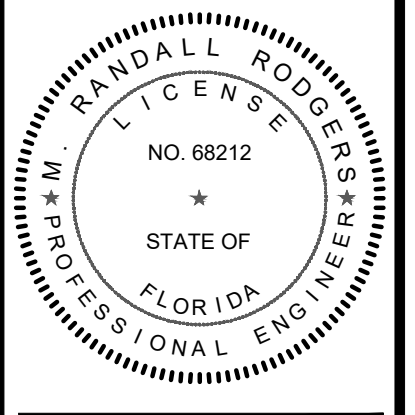
**LEGEND**

|  |            |
|--|------------|
| WATER MAIN WITH VALVE  |            |
| SINGLE WATER SERVICE, DOUBLE WATER SERVICE AND FIRE HYDRANT  |            |
| SANITARY SEWER MAIN WITH SINGLE SEWER SERVICE, DOUBLE WATER SERVICE, MANHOLE, CALLOUT AND FLOW DIRECTION |            |
| STORM SEWER WITH CATCH BASIN   |            |
| BACTERIOLOGICAL SAMPLE POINT   |            |
| STREET LIGHTS  |            |
| LOT NUMBER   |            |
| BUFFER EASEMENT  | B.E.       |
| DRAINAGE EASEMENT  | D.E.       |
| DRAINAGE SWALE EASEMENT  | D.S.E.     |
| ELEVATION  | EL.        |
| FINISHED GRADE   | FG         |
| FIRE HYDRANT   | F.H.       |
| FORCE MAIN   | FM         |
| GATE VALVE   | G.V.       |
| INVERT   | INV.       |
| LANDSCAPE EASEMENT   | L.E.       |
| LAKE MAINTENANCE ACCESS EASEMENT   | L.M.A.E.   |
| LAKE MAINTENANCE EASEMENT  | L.M.E.     |
| MANHOLE  | MH         |
| OPEN SPACE   | O.S.       |
| POINT OF SERVICE   | P.O.S.     |
| CITY OF PORT ST. LUCIE UTILITY EASEMENT  | P.S.L.U.E. |
| CITY OF PORT ST. LUCIE UTILITY SYSTEMS DEPARTMENT  | PSLUSD     |
| SANITARY SEWER   | SAN        |
| TOP OF PIPE  | T.O.P.     |
| UTILITY EASEMENT   | U.E.       |
| UTILITY EASEMENT - RESTRICTED AREA (SEE "U.E." PLAT DEDICATION)  | U.E.-R.A.  |
| WATER MAIN   | WM         |



PROJECT:  
RIVERLAND PARCEL B  
PLAT FOUR  
CITY OF PORT ST. LUCIE,  
FLORIDA

CLIENT:  
RIVERLAND ASSOCIATES II  
LLLP  
CITY OF PORT ST. LUCIE,  
FLORIDA



M. RANDALL RODGERS, PE  
FLORIDA LICENSE No. 68212  
10/25/21

PROJECT No.: 21-1013  
DRAWN BY: SOC  
CHECKED BY: RR  
DATE: 10/25/2021  
CAD ID.: 21-1013-WS-PLAN

SHEET TITLE:  
**WATER AND SEWER PLAN**

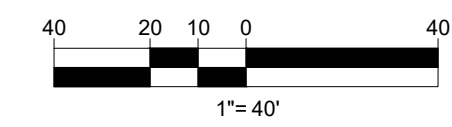
SHEET NUMBER:  
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CITY OF PSL PROJECT No. P21-118  
PSLUSD FILE No. 5268E

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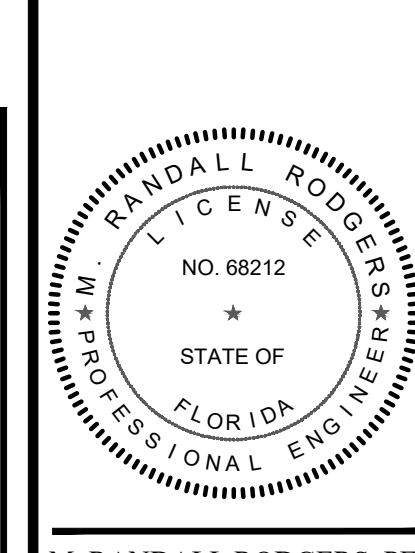
1449 NW COMMERCIAL CENTRE DR  
PORT ST. LUCIE, FL 34986  
PHONE: (772) 873-5477  
FIRE C.O.A. # 3222

| REVISIONS: |          |
|------------|----------|
| BY:        | DATE:    |
| SG         | 06/23/21 |
| JM         | 09/14/21 |

| COMMENTS: |         |
|-----------|---------|
| PER SPRK  | PER GL  |
| COMMENTS  | MARKUPS |

PROJECT:  
**RIVERLAND PARCEL B  
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CITY OF PORT ST. LUCIE,  
FLORIDA

CLIENT:  
**RIVERLAND ASSOCIATES II  
LLLP**  
CITY OF PORT ST. LUCIE,  
FLORIDA

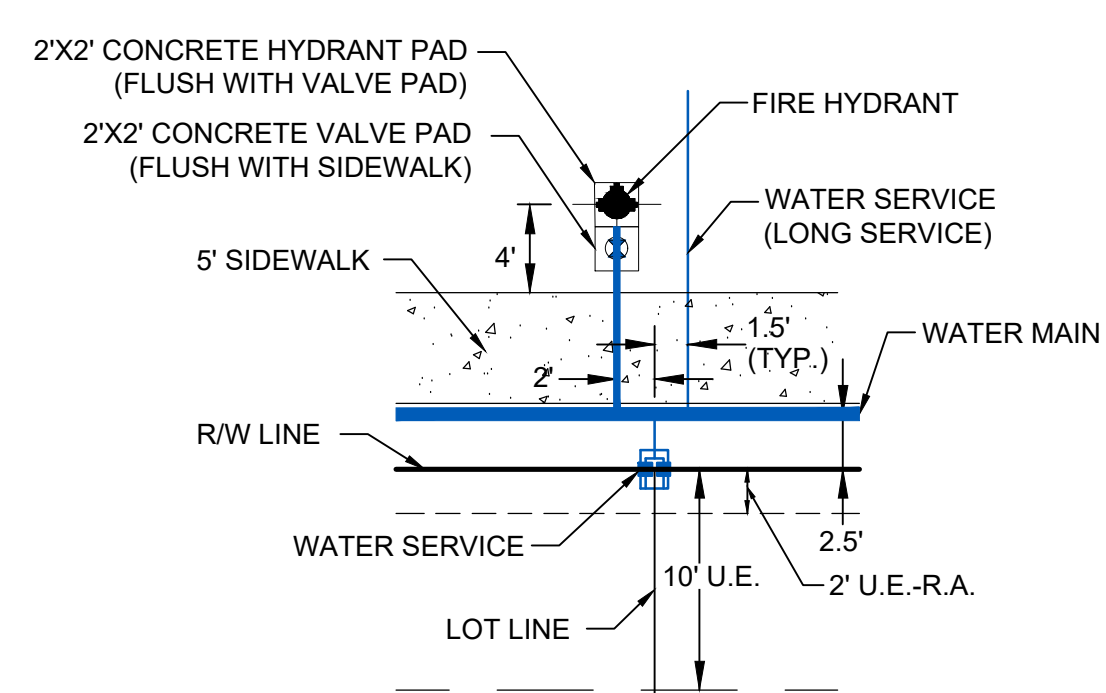


M. RANDALL RODGERS, PE  
FLORIDA LICENSE No. 68212  
10/25/21

PROJECT No.: 21-1013  
DRAWN BY: SOC  
CHECKED BY: RR  
DATE: 10/25/2021  
CAD ID.: 21-1013-WS PLAN

SHEET TITLE:  
**WATER AND SEWER PLAN**

SHEET NUMBER:  
**04**

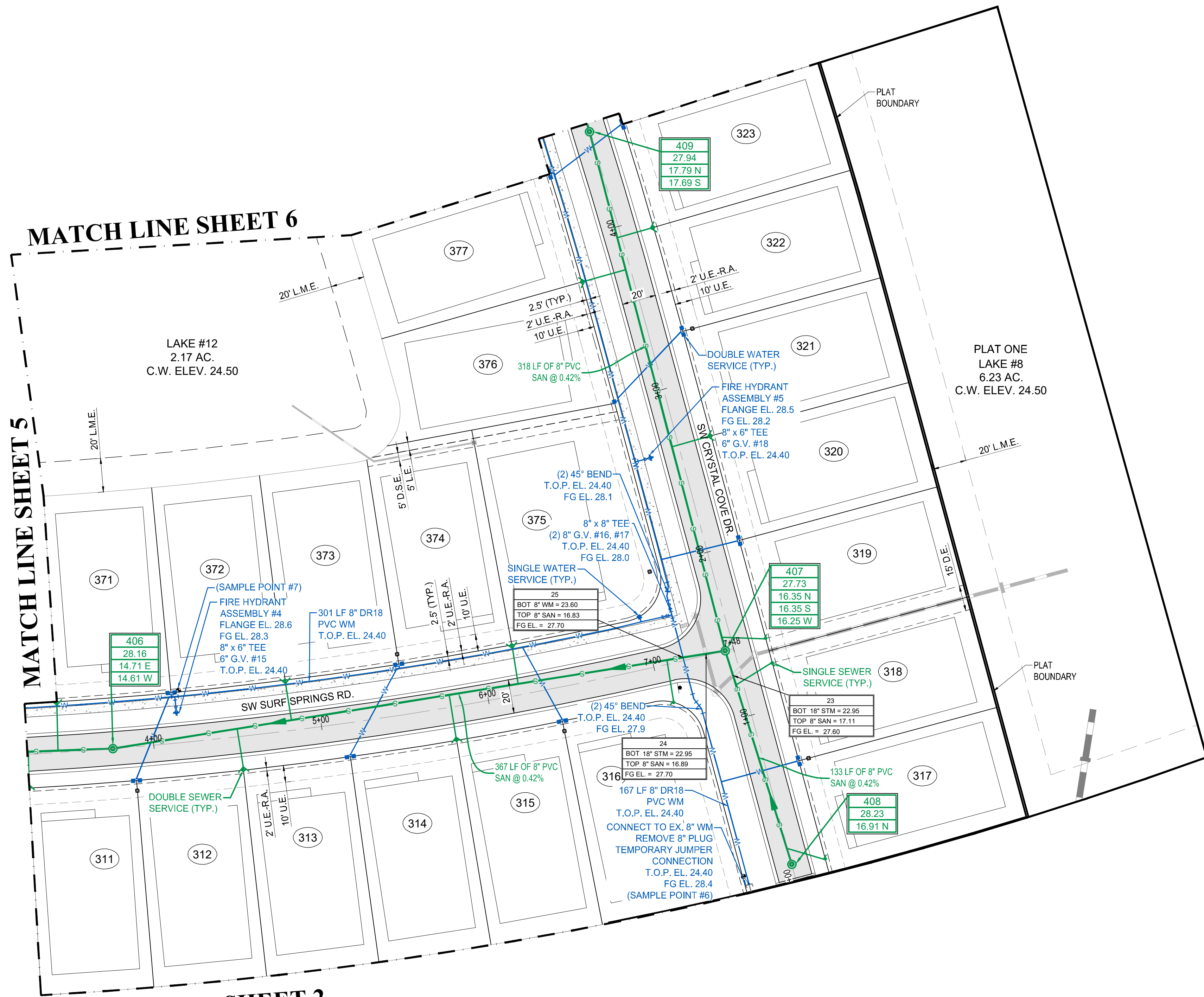


**TYPICAL FIRE HYDRANT AND WATER SERVICE DETAIL**  
N.T.S.

**MATCH LINE SHEET 6**

**MATCH LINE SHEET 5**

**MATCH LINE SHEET 2**

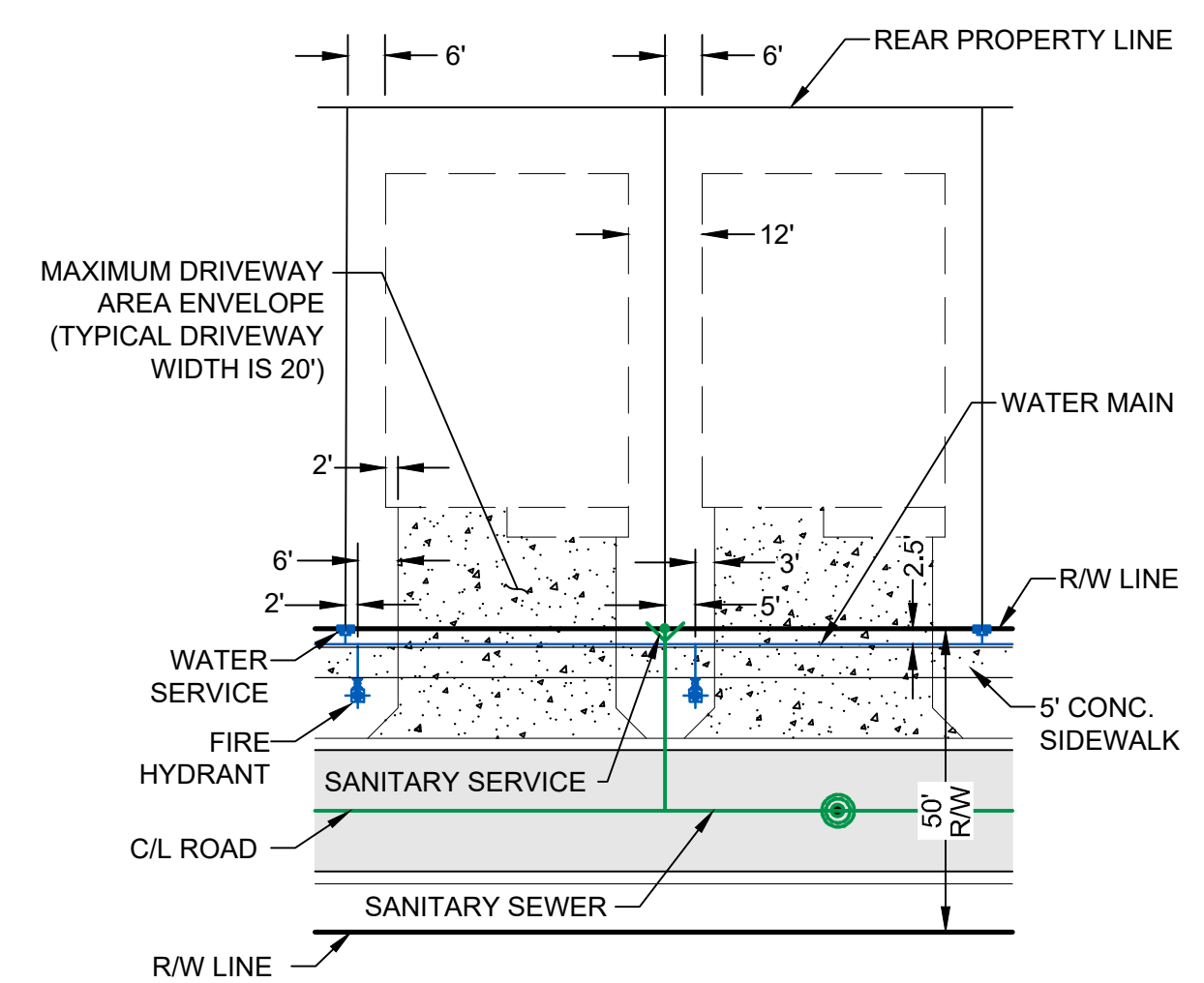


**LEGEND**

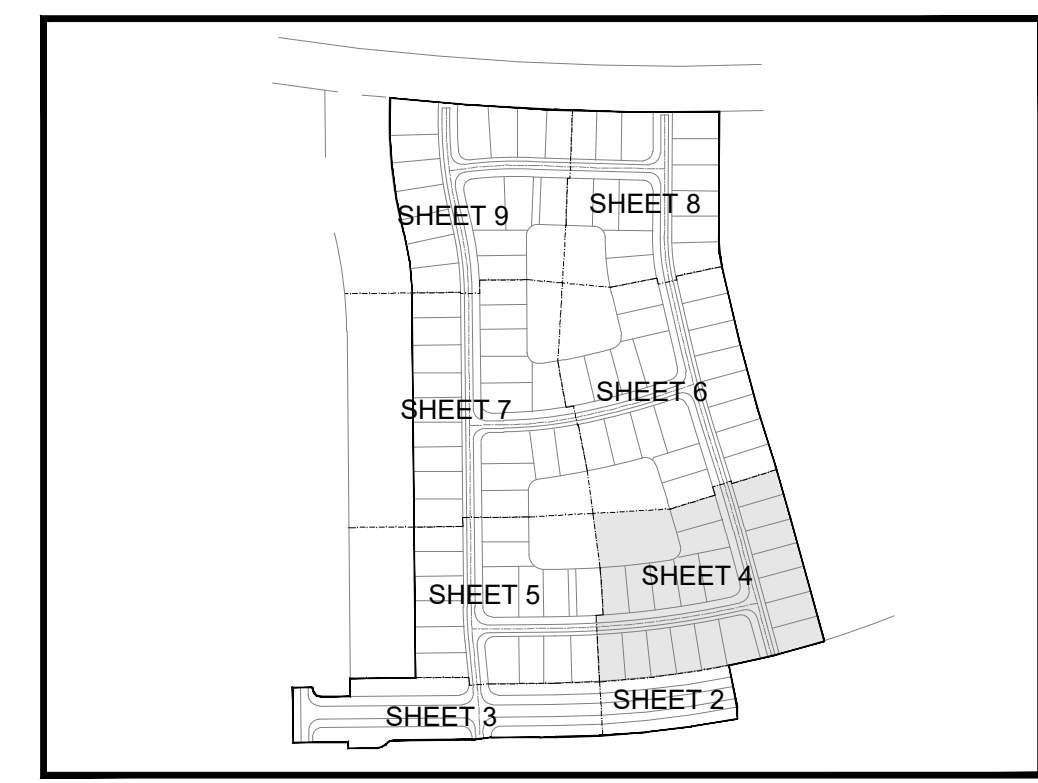
|  |            |
|--|------------|
| WATER MAIN WITH VALVE  |            |
| SINGLE WATER SERVICE, DOUBLE WATER SERVICE AND FIRE HYDRANT  |            |
| SANITARY SEWER MAIN WITH SINGLE SEWER SERVICE, DOUBLE WATER SERVICE, MANHOLE, CALLOUT AND FLOW DIRECTION |            |
| STORM SEWER WITH CATCH BASIN   |            |
| BACTERIOLOGICAL SAMPLE POINT   |            |
| STREET LIGHTS  |            |
| LOT NUMBER   |            |
| BUFFER EASEMENT  | B.E.       |
| DRAINAGE EASEMENT  | D.E.       |
| DRAINAGE SWALE EASEMENT  | D.S.E.     |
| ELEVATION  | EL.        |
| FINISHED GRADE   | FG         |
| FIRE HYDRANT   | F.H.       |
| FORCE MAIN   | FM         |
| GATE VALVE   | G.V.       |
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| LANDSCAPE EASEMENT   | L.E.       |
| LAKE MAINTENANCE ACCESS EASEMENT   | L.M.A.E.   |
| LAKE MAINTENANCE EASEMENT  | L.M.E.     |
| MANHOLE  | MH         |
| OPEN SPACE   | O.S.       |
| POINT OF SERVICE   | P.O.S.     |
| CITY OF PORT ST. LUCIE UTILITY EASEMENT  | P.S.L.U.E. |
| CITY OF PORT ST. LUCIE UTILITY SYSTEMS DEPARTMENT  | PSLUSD     |
| SANITARY SEWER   | SAN        |
| TOP OF PIPE  | T.O.P.     |
| UTILITY EASEMENT   | U.E.       |
| UTILITY EASEMENT - RESTRICTED AREA (SEE "U.E.-R.A." PLAT DEDICATION)                                     | U.E.-R.A.  |
| WATER MAIN   | WM         |

**NOTES:**

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- ALL GRAVITY SEWER PIPE, FITTINGS AND SERVICE LINES SHALL BE PVC, SDR 26 AND, AS A MINIMUM, CONFORM TO ASTM D-3034. FOR DEPTHS GREATER THAN 15', THE PIPE, JOINTS AND FITTINGS SHALL MEET THE SPECIFICATIONS FOR PRESSURE MAINS.
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- PRIOR TO FINAL CERTIFICATION AND THE ASSURANCE OF FINAL WATER METERS FOR THIS PLAT, THE WATER MAIN SHALL BE LOOPED.



**TYPICAL SINGLE FAMILY LOT DETAIL**  
N.T.S.

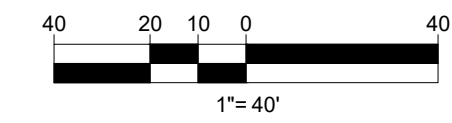


**KEY MAP**  
N.T.S.



CITY OF PSL PROJECT NO. P21-118  
PSLUSD FILE NO. 5268E





**VELCON**  
ENGINEERING & SURVEYING, LLC

1449 NW COMMERCIAL CENTRE DR  
PORT ST. LUCIE, FL 34986  
PHONE: (772) 878-5477  
FIRE C.O.A. # 3222

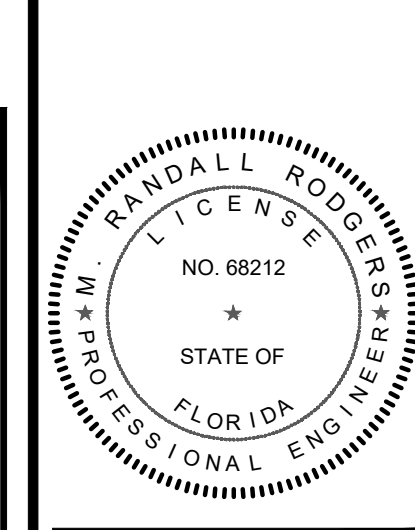
| REVISIONS: |          | BY: | DATE: | COMMENT:          |
|------------|----------|-----|-------|-------------------|
| SG         | 06/23/21 |     |       | PER SPRK COMMENTS |
| JM         | 09/14/21 |     |       | PER GL MARKUPS    |

| PROJECT:           |
|--------------------|
| RIVERLAND PARCEL B |

| CLIENT:                         |
|---------------------------------|
| RIVERLAND ASSOCIATES II<br>LLLP |

| PROJECT:                        |
|---------------------------------|
| RIVERLAND PARCEL B<br>PLAT FOUR |

| CLIENT:                         |
|---------------------------------|
| RIVERLAND ASSOCIATES II<br>LLLP |

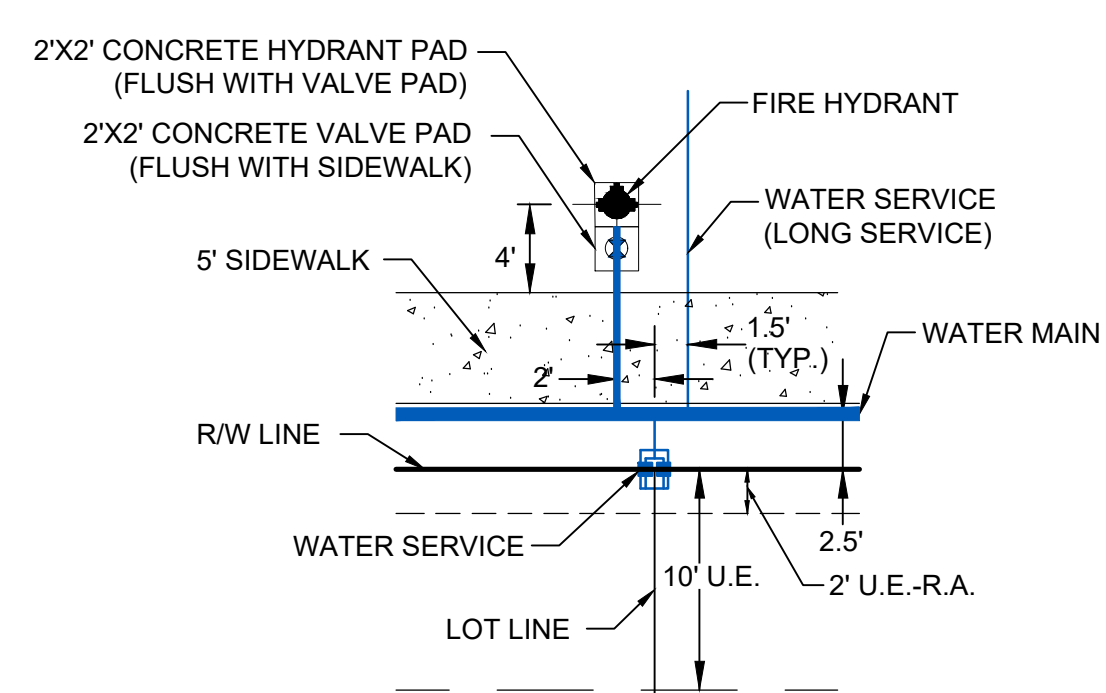


M. RANDALL RODGERS, PE  
FLORIDA LICENSE No. 68212  
10/25/21

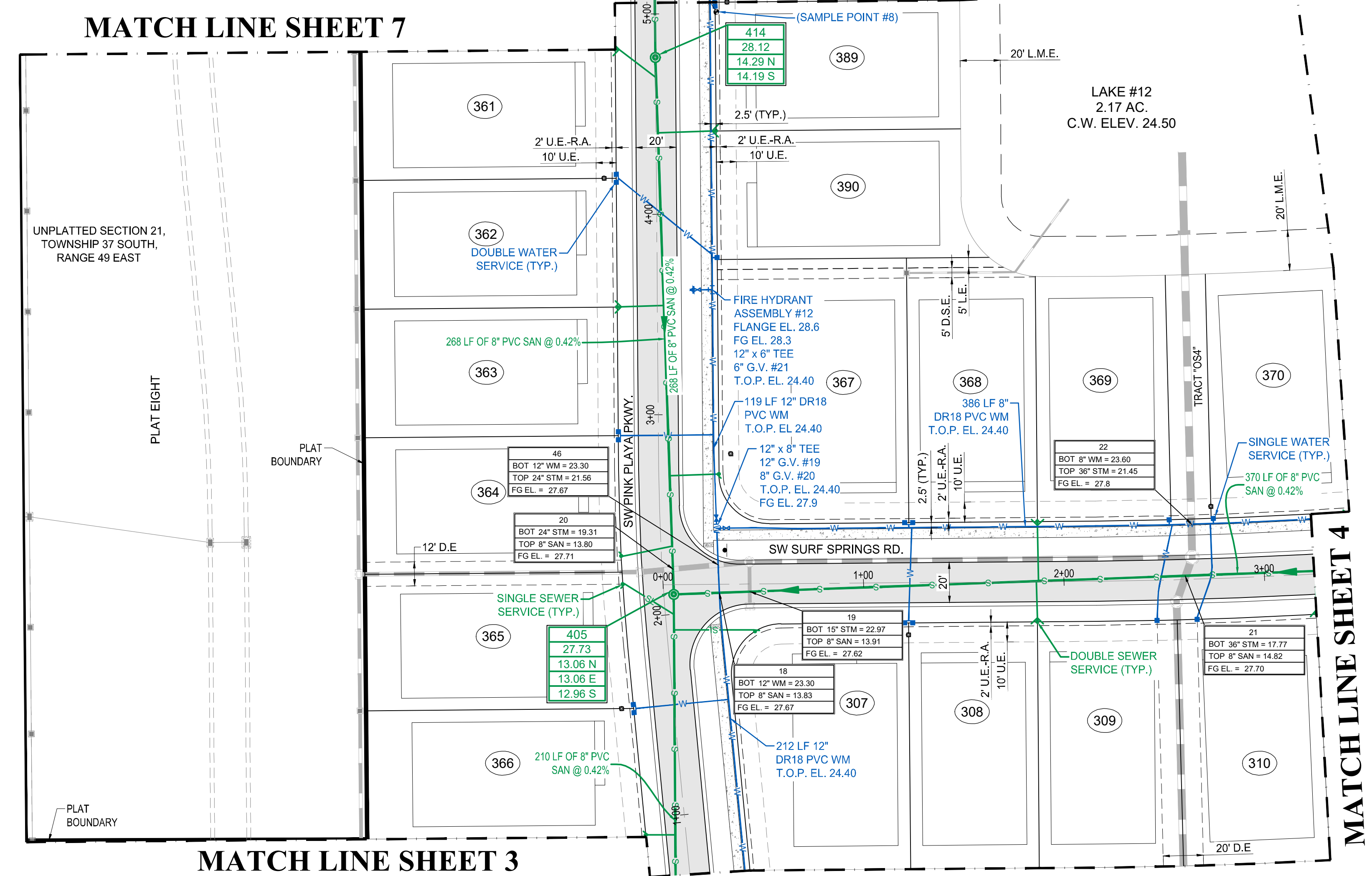
PROJECT No.: 21-1013  
DRAWN BY: SOC  
CHECKED BY: RR  
DATE: 10/25/2021  
CAD ID.: 21-1013-WS PLAN

SHEET TITLE:  
**WATER AND SEWER PLAN**

SHEET NUMBER:  
**05**



**TYPICAL FIRE HYDRANT AND WATER SERVICE DETAIL**  
N.T.S.

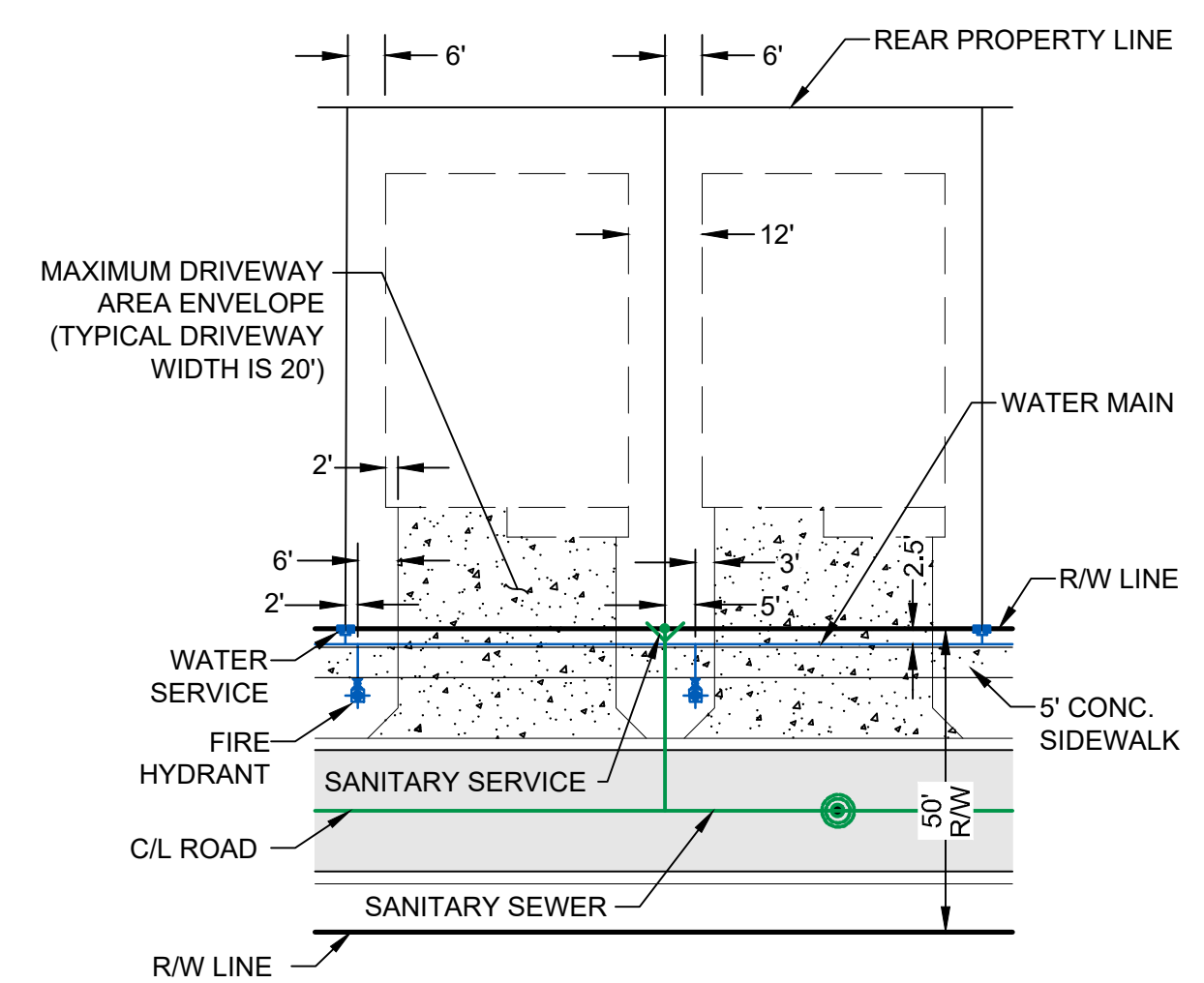


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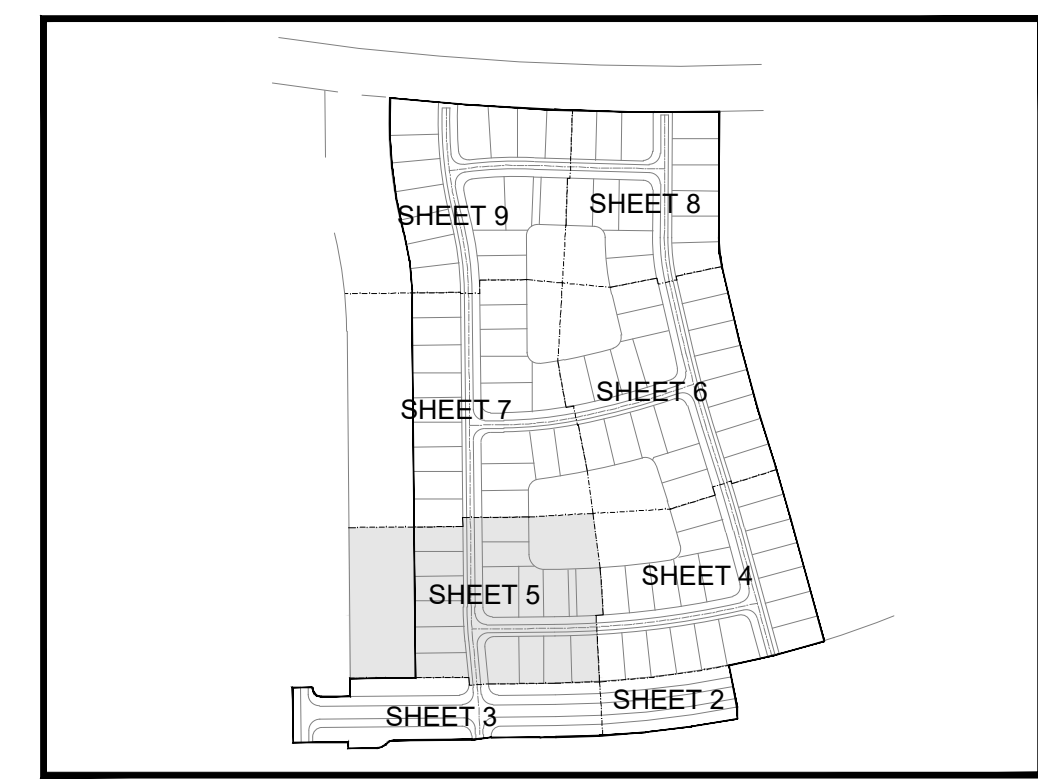
|  |            |
|--|------------|
| WATER MAIN WITH VALVE  |            |
| SINGLE WATER SERVICE, DOUBLE WATER SERVICE AND FIRE HYDRANT  |            |
| SANITARY SEWER MAIN WITH SINGLE SEWER SERVICE, DOUBLE WATER SERVICE, MANHOLE, CALLOUT AND FLOW DIRECTION |            |
| STORM SEWER WITH CATCH BASIN   |            |
| BACTERIOLOGICAL SAMPLE POINT   |            |
| STREET LIGHTS  |            |
| LOT NUMBER   |            |
| BUFFER EASEMENT  | B.E.       |
| DRAINAGE EASEMENT  | D.E.       |
| DRAINAGE SWALE EASEMENT  | D.S.E.     |
| ELEVATION  | EL.        |
| FINISHED GRADE   | FG         |
| FIRE HYDRANT   | F.H.       |
| FORCE MAIN   | FM         |
| GATE VALVE   | G.V.       |
| INVERT   | INV.       |
| LANDSCAPE EASEMENT   | L.E.       |
| LAKE MAINTENANCE ACCESS EASEMENT   | L.M.A.E.   |
| LAKE MAINTENANCE EASEMENT  | L.M.E.     |
| MANHOLE  | MH         |
| OPEN SPACE   | O.S.       |
| POINT OF SERVICE   | P.O.S.     |
| CITY OF PORT ST. LUCIE UTILITY EASEMENT  | P.S.L.U.E. |
| CITY OF PORT ST. LUCIE UTILITY SYSTEMS DEPARTMENT  | PSLUSD     |
| SANITARY SEWER   | SAN        |
| TOP OF PIPE  | T.O.P.     |
| UTILITY EASEMENT   | U.E.       |
| UTILITY EASEMENT - RESTRICTED AREA (SEE "U.E." PLAT DEDICATION)  | U.E.-R.A.  |
| WATER MAIN   | WM         |

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**TYPICAL SINGLE FAMILY LOT DETAIL**  
N.T.S.



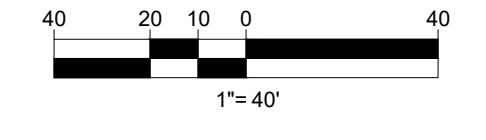
**KEY MAP**  
N.T.S.



CITY OF PSL PROJECT No. P21-118  
PSLUSD FILE No. 5268E

Printed on Monday, October 25, 2021, 3:08 PM by Shirley Gomez



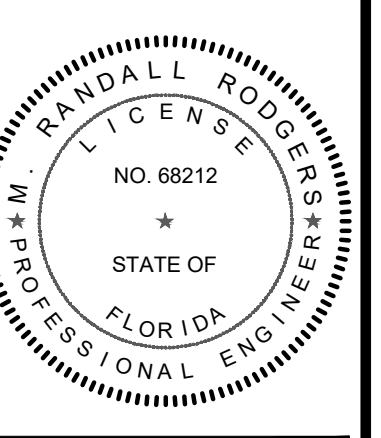


REVISIONS:

| BY: | DATE:    | COMMENT:          |
|-----|----------|-------------------|
| SG  | 06/23/21 | PER SPRK COMMENTS |
| JM  | 09/14/21 | PER GL MARKUPS    |

PROJECT:  
**RIVERLAND PARCEL B  
PLAT FOUR**  
CITY OF PORT ST. LUCIE,  
FLORIDA

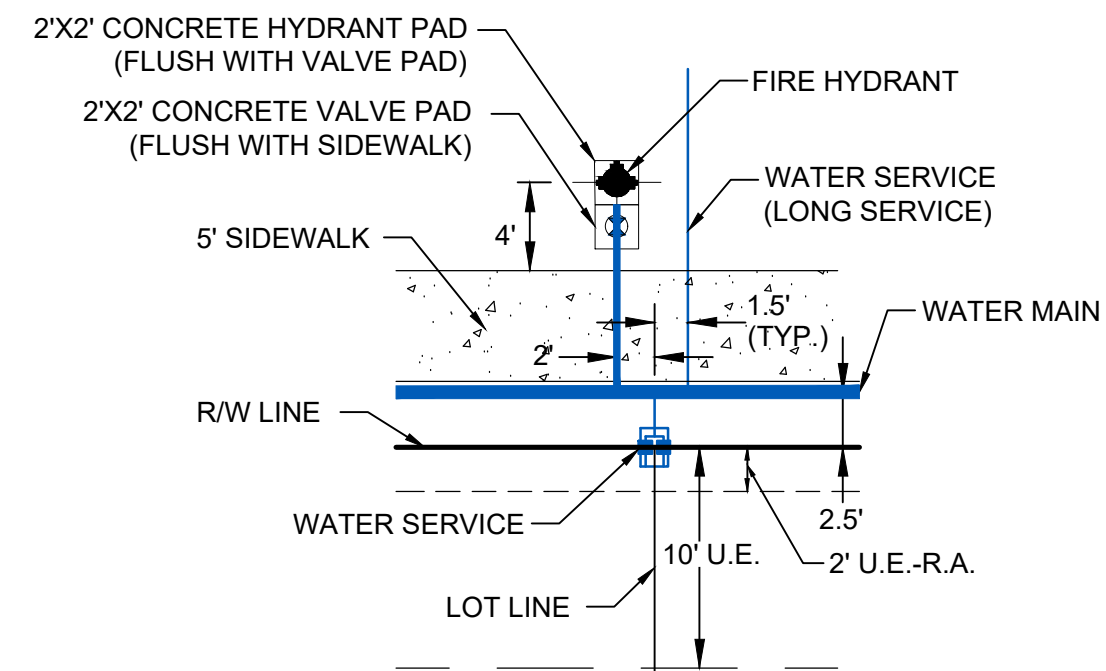
CLIENT:  
**RIVERLAND ASSOCIATES II  
LLLP**  
CITY OF PORT ST. LUCIE,  
FLORIDA



M. RANDALL RODGERS, PE  
FLORIDA LICENSE No. 68212  
10/25/21

PROJECT No.: 21-1013  
DRAWN BY: SOC  
CHECKED BY: RR  
DATE: 10/25/2021  
CAD ID.: 21-1013-WS PLAN

SHEET TITLE:  
**WATER AND SEWER PLAN**  
SHEET NUMBER:  
**06**



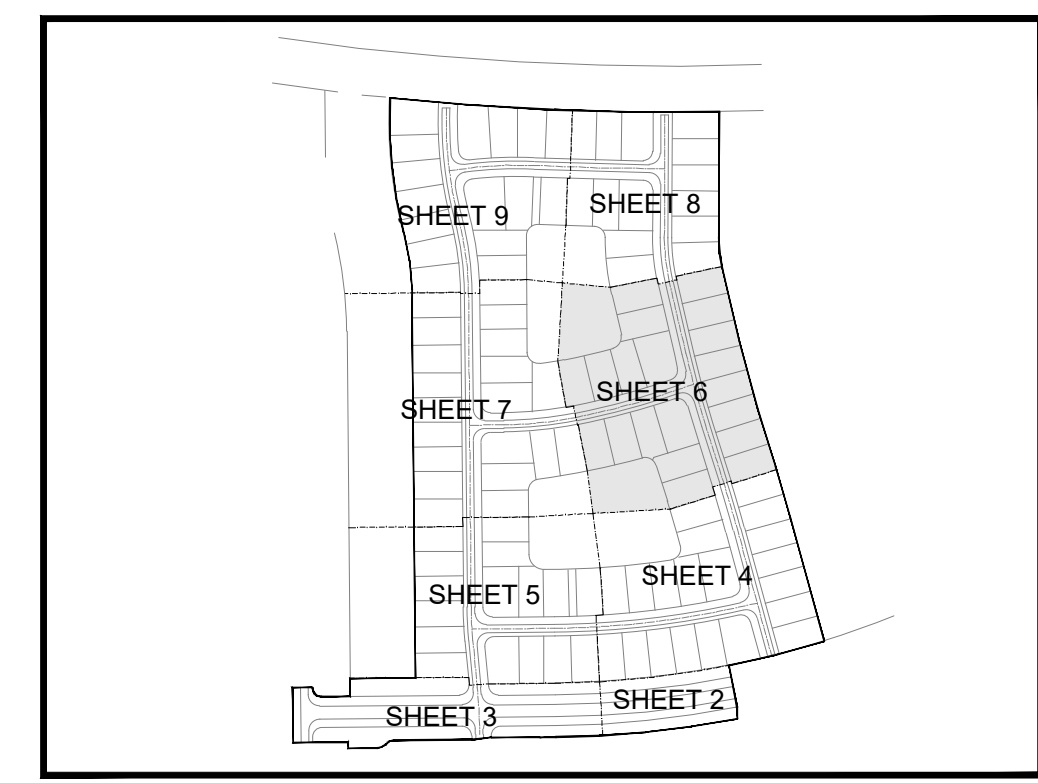
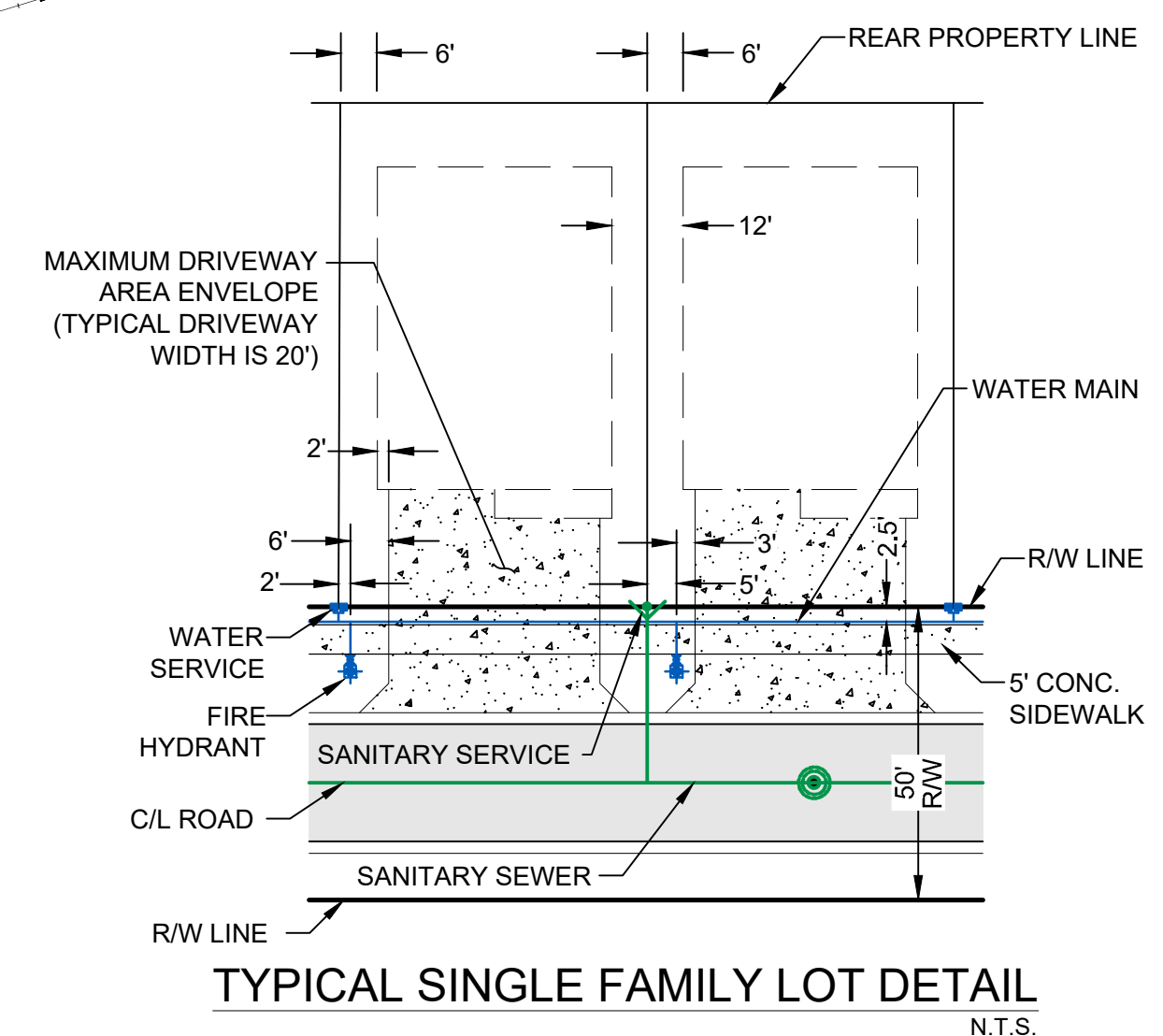
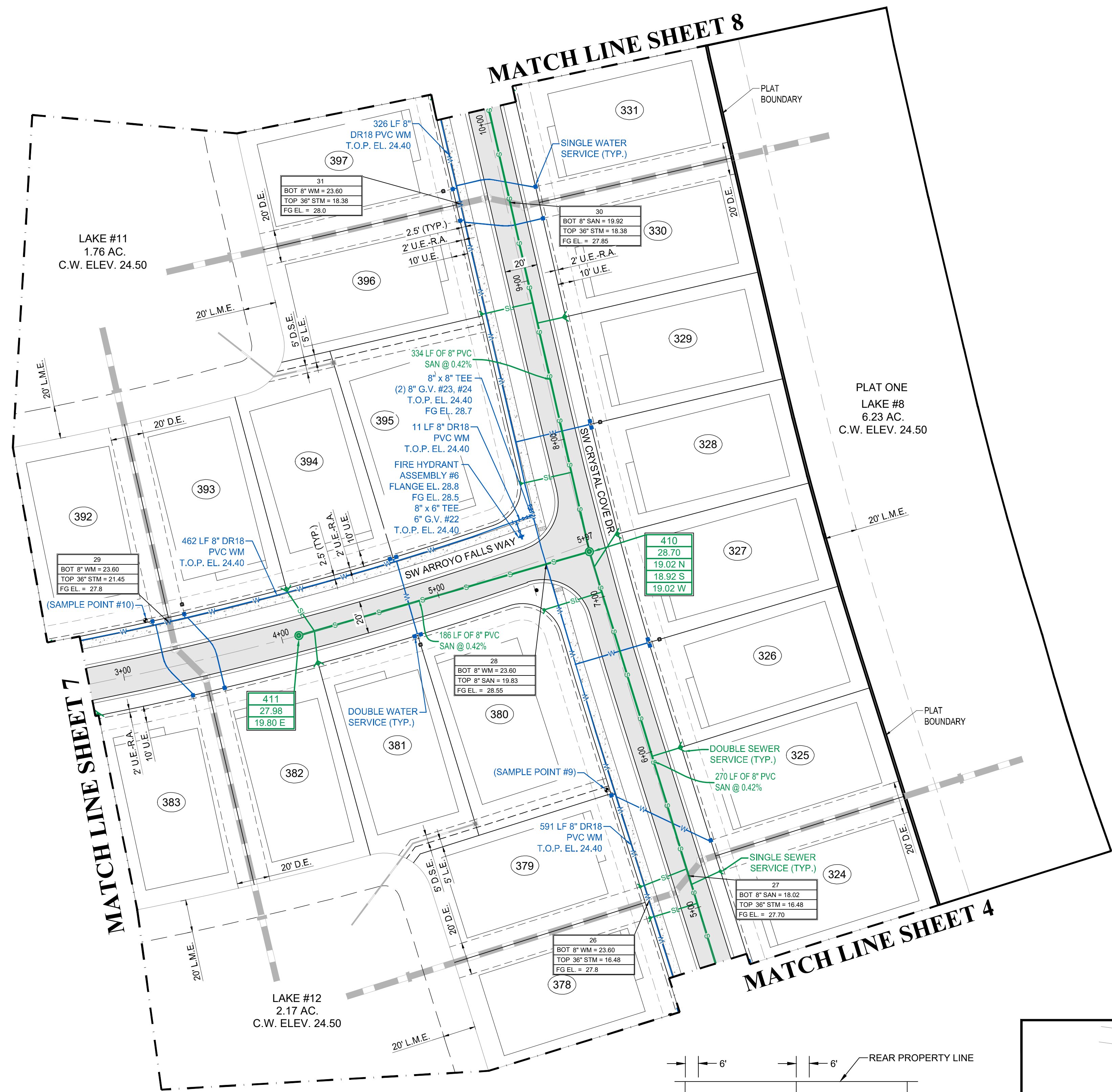
**TYPICAL FIRE HYDRANT AND WATER SERVICE DETAIL**  
N.T.S.

**LEGEND**

|  |            |                   |  |
|--|------------|-------------------|--|
| WATER MAIN WITH VALVE  |            | SWS P.O.S. (TYP.) |  |
| SINGLE WATER SERVICE, DOUBLE WATER SERVICE AND FIRE HYDRANT  |            | DWS P.O.S. (TYP.) |  |
| SANITARY SEWER MAIN WITH SINGLE SEWER SERVICE, DOUBLE WATER SERVICE, MANHOLE, CALLOUT AND FLOW DIRECTION |            | SSS P.O.S. (TYP.) |  |
|  |            | DSS P.O.S. (TYP.) |  |
|  |            | MH #              |  |
|  |            | RIM EL.           |  |
|  |            | INVEL.            |  |
|  |            |                   |  |
| STORM SEWER WITH CATCH BASIN   |            |                   |  |
| BACTERIOLOGICAL SAMPLE POINT   |            |                   |  |
| STREET LIGHTS  |            |                   |  |
| LOT NUMBER   |            |                   |  |
| BUFFER EASEMENT  | B.E.       |                   |  |
| DRAINAGE EASEMENT  | D.E.       |                   |  |
| DRAINAGE SWALE EASEMENT  | D.S.E.     |                   |  |
| ELEVATION  | EL.        |                   |  |
| FINISHED GRADE   | FG         |                   |  |
| FIRE HYDRANT   | F.H.       |                   |  |
| FORCE MAIN   | FM         |                   |  |
| GATE VALVE   | G.V.       |                   |  |
| INVERT   | INV.       |                   |  |
| LANDSCAPE EASEMENT   | L.E.       |                   |  |
| LAKE MAINTENANCE ACCESS EASEMENT   | L.M.A.E.   |                   |  |
| LAKE MAINTENANCE EASEMENT  | L.M.E.     |                   |  |
| MANHOLE  | MH         |                   |  |
| OPEN SPACE   | O.S.       |                   |  |
| POINT OF SERVICE   | P.O.S.     |                   |  |
| CITY OF PORT ST. LUCIE UTILITY EASEMENT  | P.S.L.U.E. |                   |  |
| CITY OF PORT ST. LUCIE UTILITY SYSTEMS DEPARTMENT  | PSLUSD     |                   |  |
| SANITARY SEWER   | SAN        |                   |  |
| TOP OF PIPE  | T.O.P.     |                   |  |
| UTILITY EASEMENT   | U.E.       |                   |  |
| UTILITY EASEMENT - RESTRICTED AREA (SEE "U.E." PLAT DEDICATION)  | U.E.-R.A.  |                   |  |
| WATER MAIN   | WM         |                   |  |

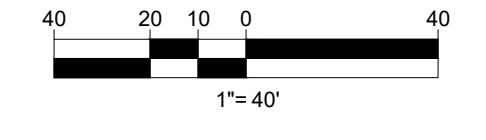
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CITY OF PSL PROJECT NO. P21-118  
PSLUSD FILE NO. 5268E





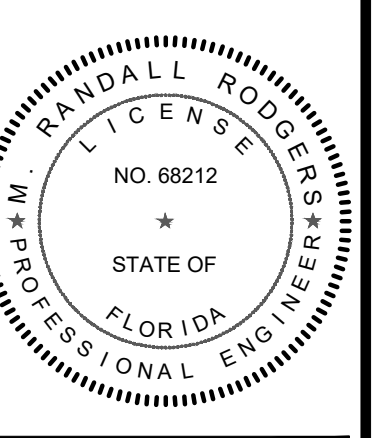
**VELCON**  
ENGINEERING & SURVEYING, LLC  
1449 NW COMMERCIAL CENTRE DR  
PORT ST. LUCIE, FL 34986  
PHONE: (772) 879-5477  
FIRE C.O.A. # 3222

| REVISIONS: |          |
|------------|----------|
| BY:        | DATE:    |
| SG         | 06/23/21 |
| JM         | 09/14/21 |

| COMMENT:          |
|-------------------|
| PER SPRK COMMENTS |
| PER GL MARKUPS    |

PROJECT:  
**RIVERLAND PARCEL B  
PLAT FOUR**  
CITY OF PORT ST. LUCIE,  
FLORIDA

CLIENT:  
**RIVERLAND  
ASSOCIATES II  
LLLP**  
CITY OF PORT ST. LUCIE,  
FLORIDA



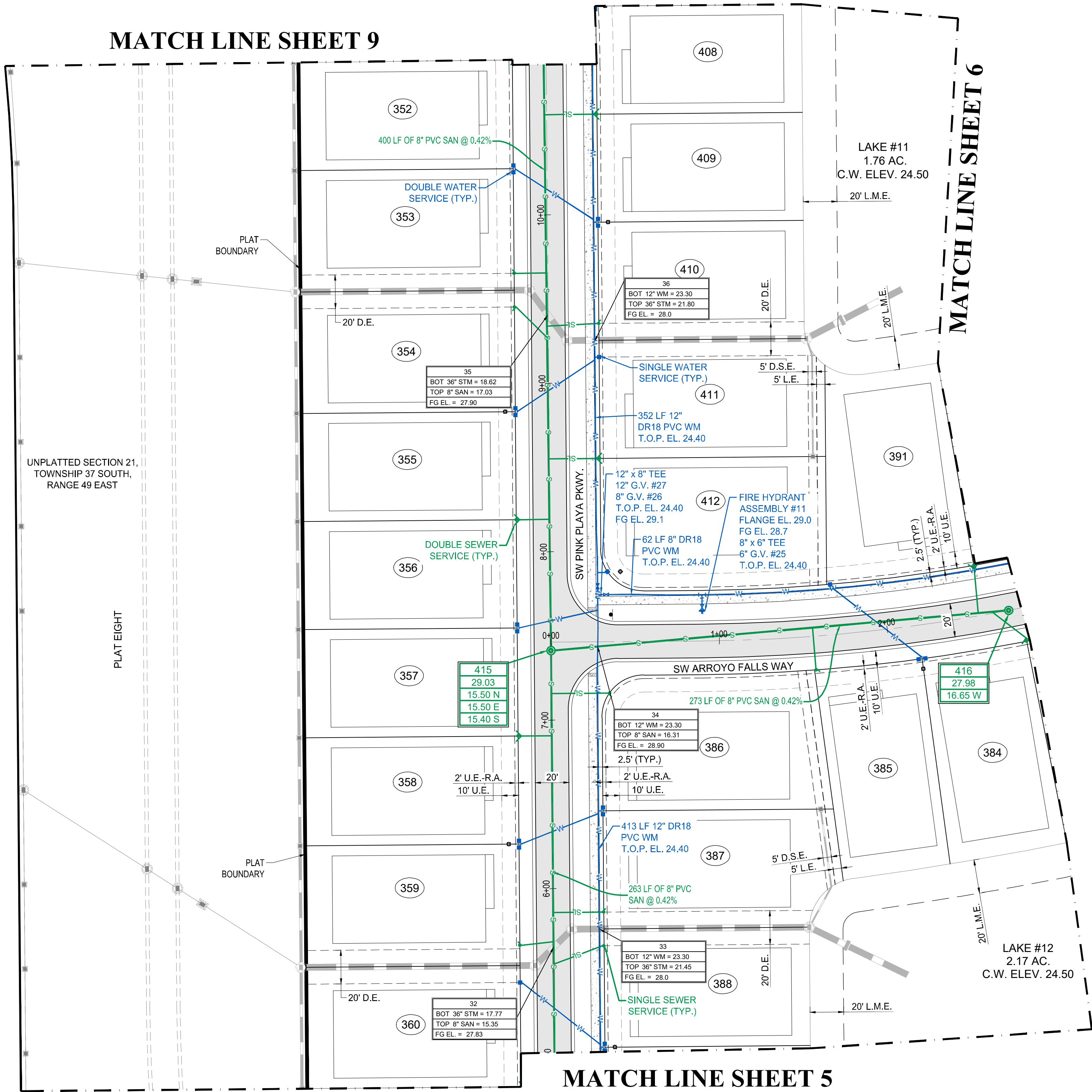
M. RANDALL RODGERS, PE  
FLORIDA LICENSE No. 68212  
10/25/21

PROJECT No.: 21-1013  
DRAWN BY: SOC RR  
CHECKED BY: SOC RR  
DATE: 10/25/2021  
CAD ID.: 21-1013-WS PLAN

SHEET TITLE:  
**WATER AND  
SEWER PLAN**

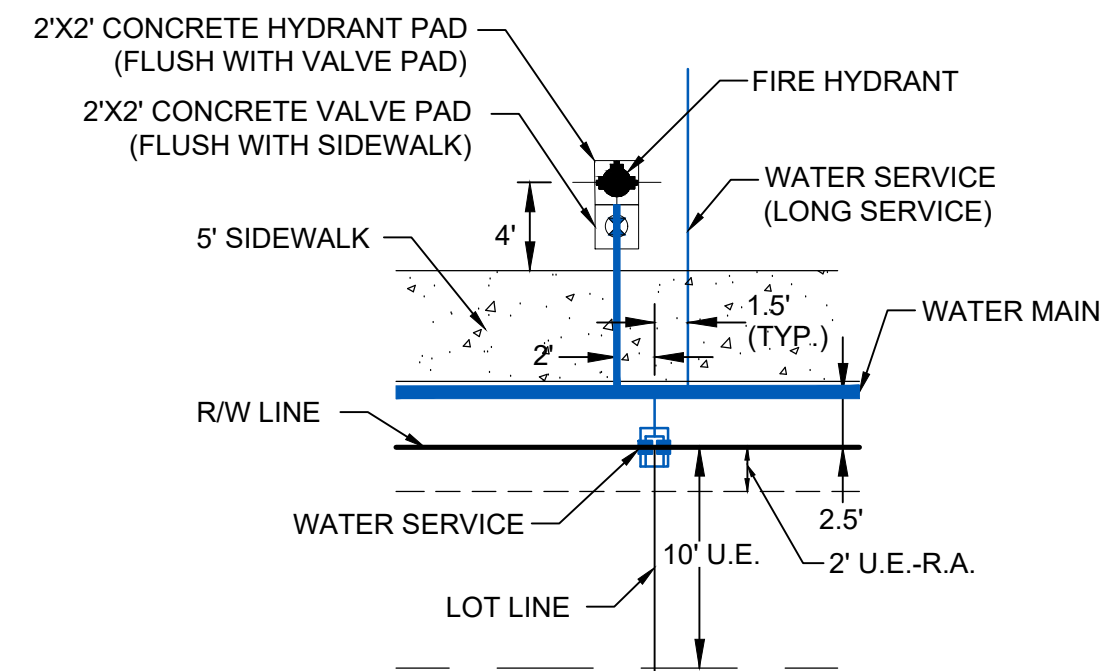
SHEET NUMBER:  
**07**

**MATCH LINE SHEET 9**



**MATCH LINE SHEET 6**

**MATCH LINE SHEET 5**



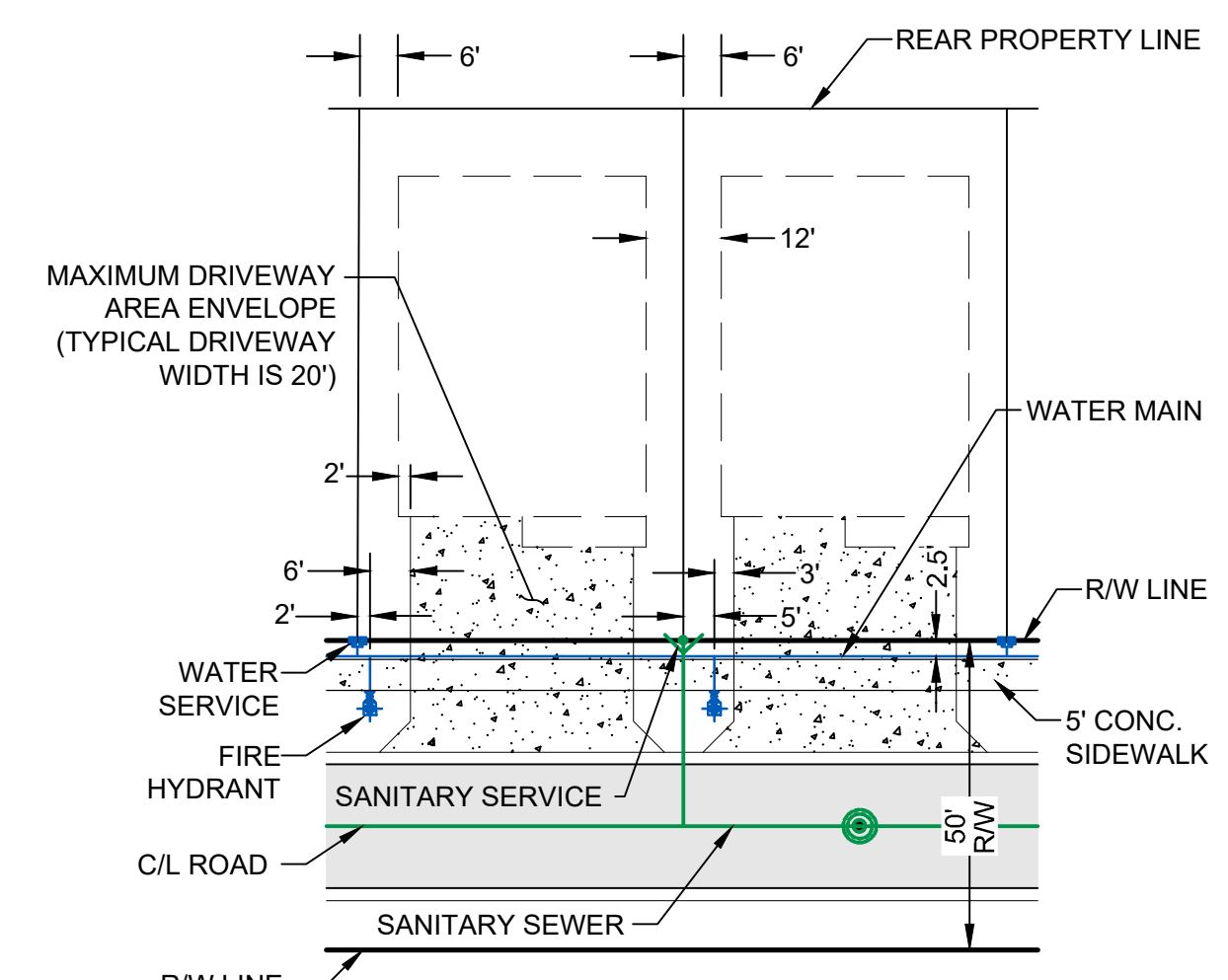
**TYPICAL FIRE HYDRANT AND  
WATER SERVICE DETAIL**  
N.T.S.

**LEGEND**

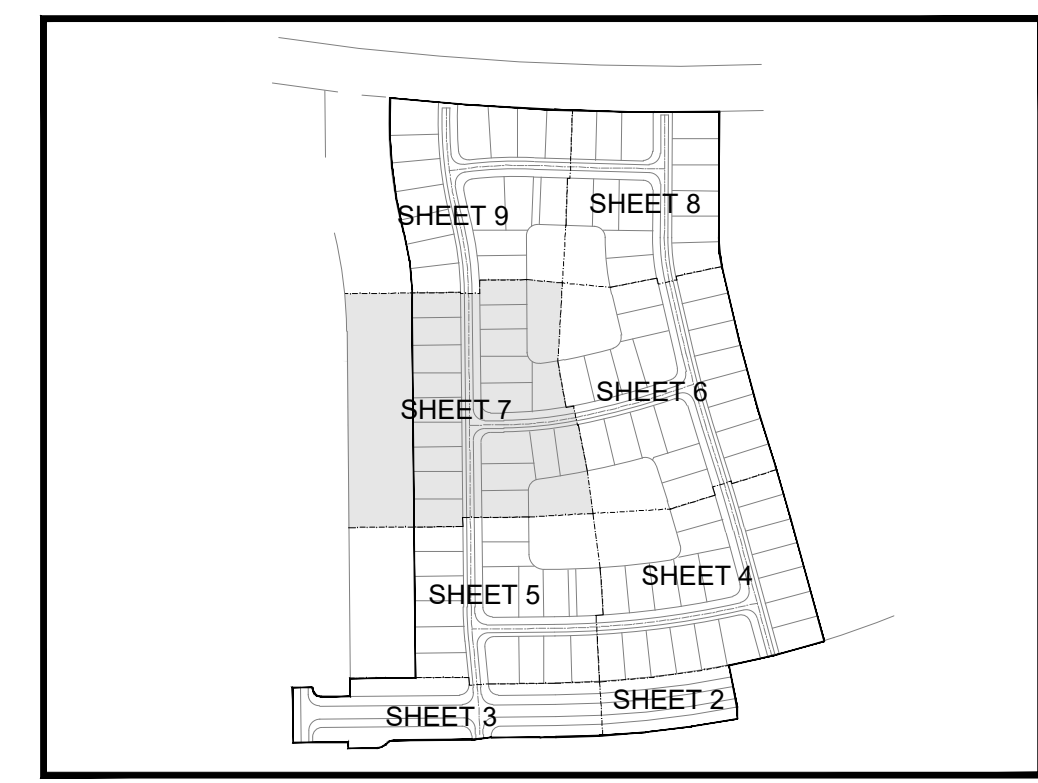
|  |            |
|--|------------|
| WATER MAIN WITH VALVE  |            |
| SINGLE WATER SERVICE, DOUBLE WATER SERVICE AND FIRE HYDRANT  |            |
| SANITARY SEWER MAIN WITH SINGLE SEWER SERVICE, DOUBLE WATER SERVICE, MANHOLE, CALLOUT AND FLOW DIRECTION |            |
| STORM SEWER WITH CATCH BASIN   |            |
| BACTERIOLOGICAL SAMPLE POINT   |            |
| STREET LIGHTS  |            |
| LOT NUMBER   |            |
| BUFFER EASEMENT  | B.E.       |
| DRAINAGE EASEMENT  | D.E.       |
| DRAINAGE SWALE EASEMENT  | D.S.E.     |
| ELEVATION  | EL.        |
| FINISHED GRADE   | FG         |
| FIRE HYDRANT   | F.H.       |
| FORCE MAIN   | FM         |
| GATE VALVE   | G.V.       |
| INVERT   | INV.       |
| LANDSCAPE EASEMENT   | L.E.       |
| LAKE MAINTENANCE ACCESS EASEMENT   | L.M.A.E.   |
| LAKE MAINTENANCE EASEMENT  | L.M.E.     |
| MANHOLE  | MH         |
| OPEN SPACE   | O.S.       |
| POINT OF SERVICE   | P.O.S.     |
| CITY OF PORT ST. LUCIE UTILITY EASEMENT  | P.S.L.U.E. |
| CITY OF PORT ST. LUCIE UTILITY SYSTEMS DEPARTMENT  | PSLUSD     |
| SANITARY SEWER   | SAN        |
| TOP OF PIPE  | T.O.P.     |
| UTILITY EASEMENT   | U.E.       |
| UTILITY EASEMENT - RESTRICTED AREA (SEE "U.E." PLAT DEDICATION)  | U.E.-R.A.  |
| WATER MAIN   | WM         |

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**TYPICAL SINGLE FAMILY LOT DETAIL**  
N.T.S.

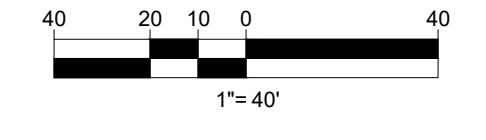


**KEY MAP**  
N.T.S.



CITY OF PSL PROJECT NO. P21-118  
PSLUSD FILE NO. 5268E



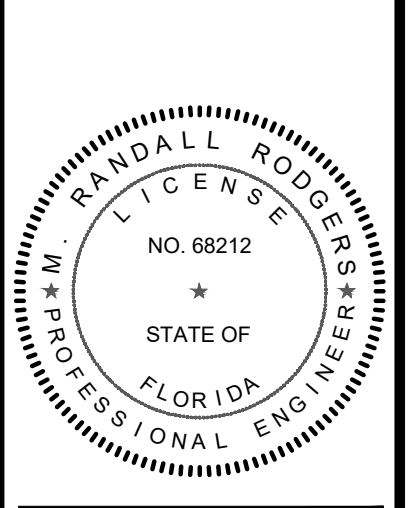


REVISIONS:

| BY: | DATE:    | COMMENT:           |
|-----|----------|--------------------|
| SG  | 06/23/21 | PER SPRIC COMMENTS |
| JM  | 09/14/21 | PER GL MARKUPS     |

PROJECT: RIVERLAND PARCEL B  
PLAT FOUR  
CITY OF PORT ST. LUCIE,  
FLORIDA

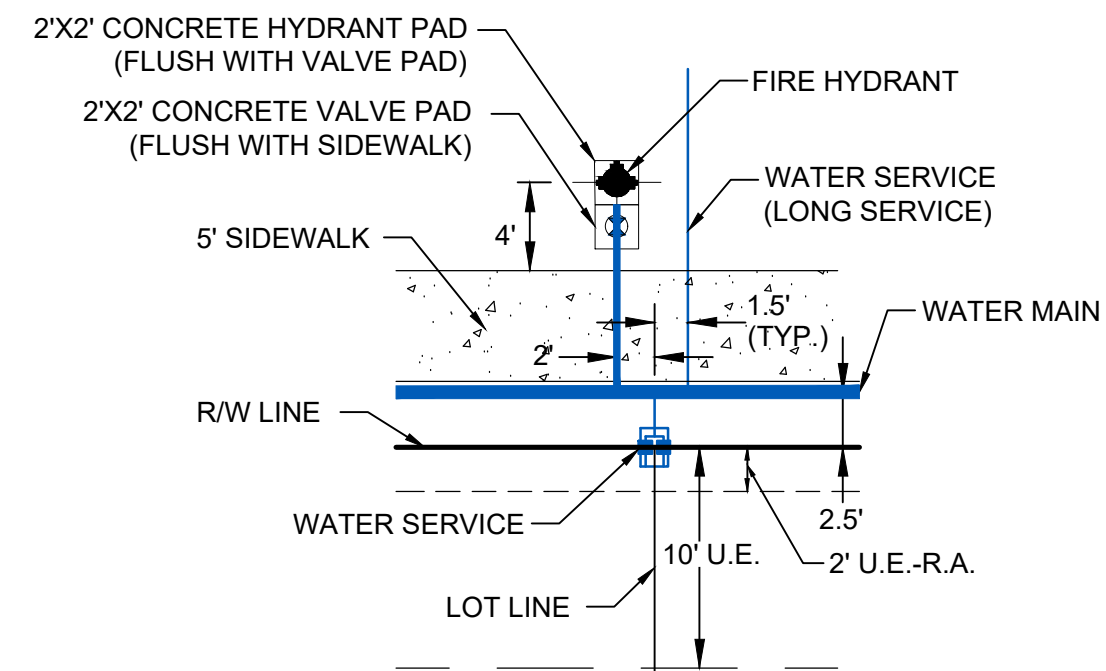
CLIENT: RIVERLAND ASSOCIATES II  
LLLP  
CITY OF PORT ST. LUCIE,  
FLORIDA



M. RANDALL RODGERS, PE  
FLORIDA LICENSE No. 68212  
10/25/21

PROJECT No.: 21-1013  
DRAWN BY: SOC  
CHECKED BY: RR  
DATE: 10/25/2021  
CAD ID.: 21-1013-WS PLAN

SHEET TITLE: WATER AND SEWER PLAN  
SHEET NUMBER: 08



TYPICAL FIRE HYDRANT AND WATER SERVICE DETAIL  
N.T.S.

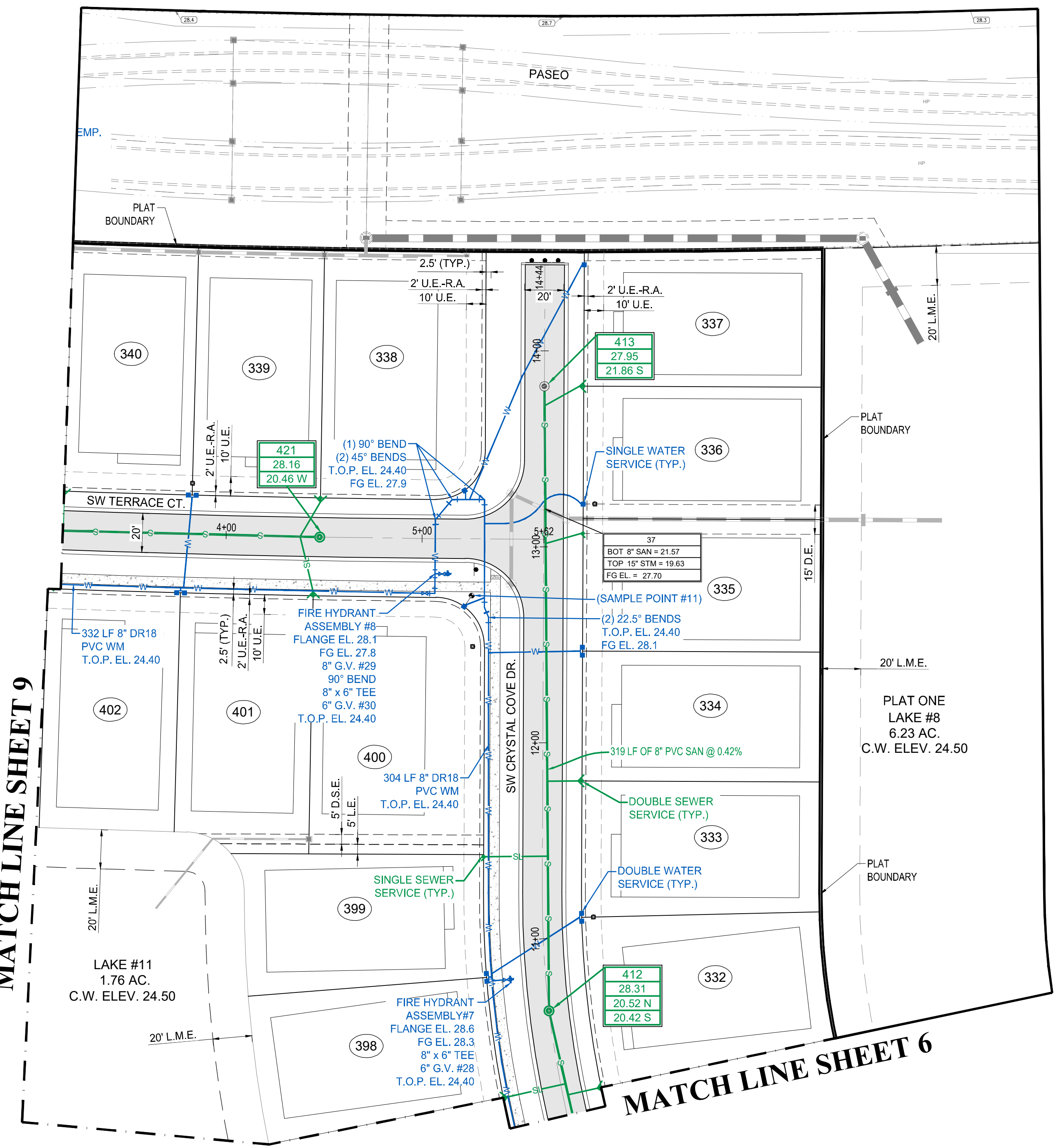
LEGEND

|  |            |                   |  |
|--|------------|-------------------|--|
| WATER MAIN WITH VALVE  |            | SWS P.O.S. (TYP.) |  |
| SINGLE WATER SERVICE, DOUBLE WATER SERVICE AND FIRE HYDRANT  |            | DWS P.O.S. (TYP.) |  |
| SANITARY SEWER MAIN WITH SINGLE SEWER SERVICE, DOUBLE WATER SERVICE, MANHOLE, CALLOUT AND FLOW DIRECTION |            | SSS P.O.S. (TYP.) |  |
|  |            | DSS P.O.S. (TYP.) |  |
| STORM SEWER WITH CATCH BASIN   |            |                   |  |
| BACTERIOLOGICAL SAMPLE POINT   |            |                   |  |
| STREET LIGHTS  |            |                   |  |
| LOT NUMBER   |            |                   |  |
| BUFFER EASEMENT  | B.E.       |                   |  |
| DRAINAGE EASEMENT  | D.E.       |                   |  |
| DRAINAGE SWALE EASEMENT  | D.S.E.     |                   |  |
| ELEVATION  | EL.        |                   |  |
| FINISHED GRADE   | FG         |                   |  |
| FIRE HYDRANT   | F.H.       |                   |  |
| FORCE MAIN   | FM         |                   |  |
| GATE VALVE   | G.V.       |                   |  |
| INVERT   | INV.       |                   |  |
| LANDSCAPE EASEMENT   | L.E.       |                   |  |
| LAKE MAINTENANCE ACCESS EASEMENT   | L.M.A.E.   |                   |  |
| LAKE MAINTENANCE EASEMENT  | L.M.E.     |                   |  |
| MANHOLE  | MH         |                   |  |
| OPEN SPACE   | O.S.       |                   |  |
| POINT OF SERVICE   | P.O.S.     |                   |  |
| CITY OF PORT ST. LUCIE UTILITY EASEMENT  | P.S.L.U.E. |                   |  |
| CITY OF PORT ST. LUCIE UTILITY SYSTEMS DEPARTMENT  | PSLUSD     |                   |  |
| SANITARY SEWER   | SAN        |                   |  |
| TOP OF PIPE  | T.O.P.     |                   |  |
| UTILITY EASEMENT   | U.E.       |                   |  |
| UTILITY EASEMENT - RESTRICTED AREA (SEE "U.E." PLAT DEDICATION)  | U.E.-R.A.  |                   |  |
| WATER MAIN   | WM         |                   |  |

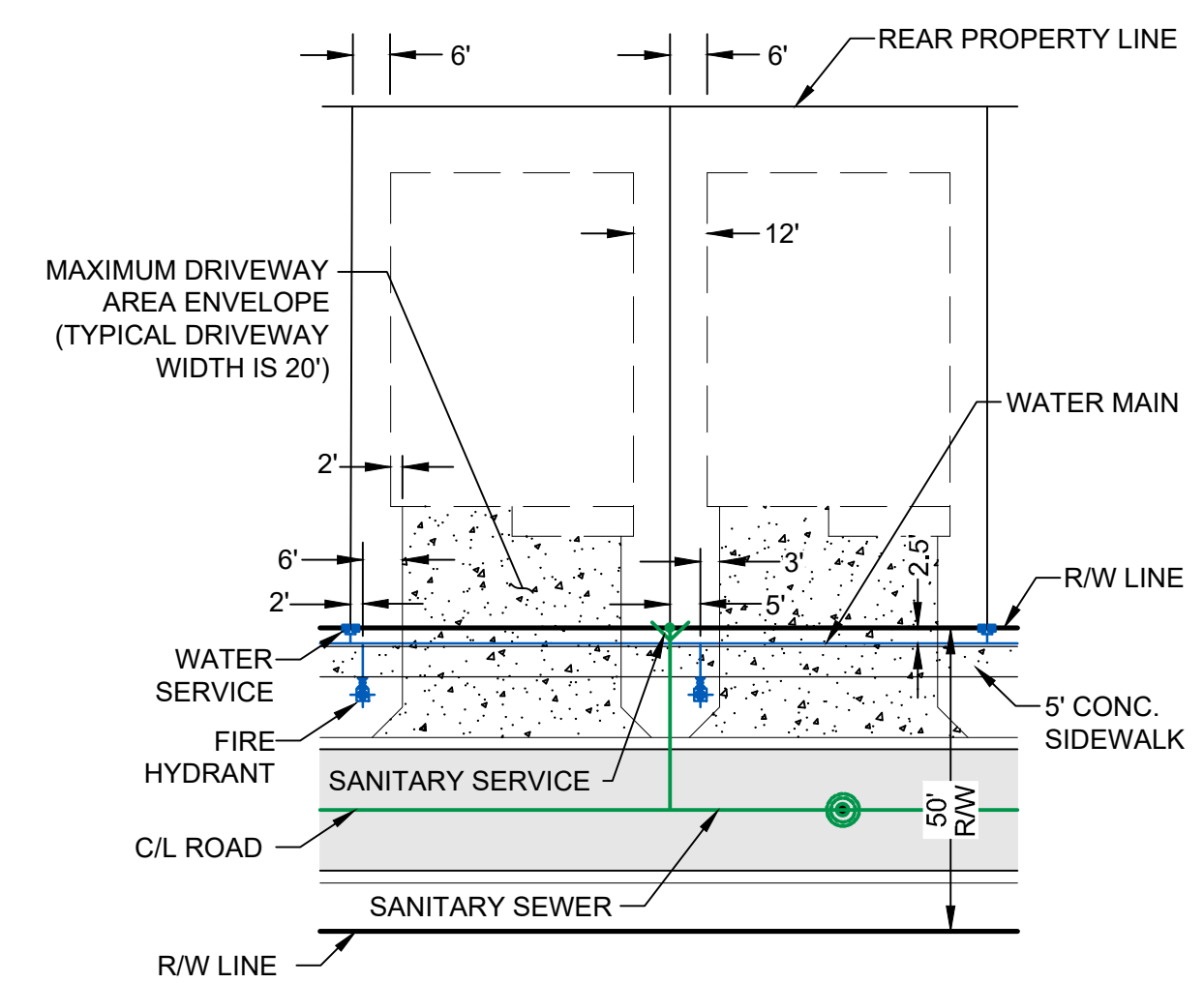
NOTES:

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- THERE SHALL BE NO FIELD CHANGES OR DEVIATIONS FROM DESIGN WITHOUT PRIOR WRITTEN APPROVAL OF THE PSLUSD AND EOR.
- ELEVATIONS - ALL ELEVATIONS REFER TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- ALL WATER AND WASTEWATER PRESSURE MAINS SHALL BE PVC, C-900, DR18 (PRESSURE CLASS 235).
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- PRIOR TO FINAL CERTIFICATION AND THE ASSURANCE OF FINAL WATER METERS FOR THIS PLAT, THE WATER MAIN SHALL BE LOOPED.

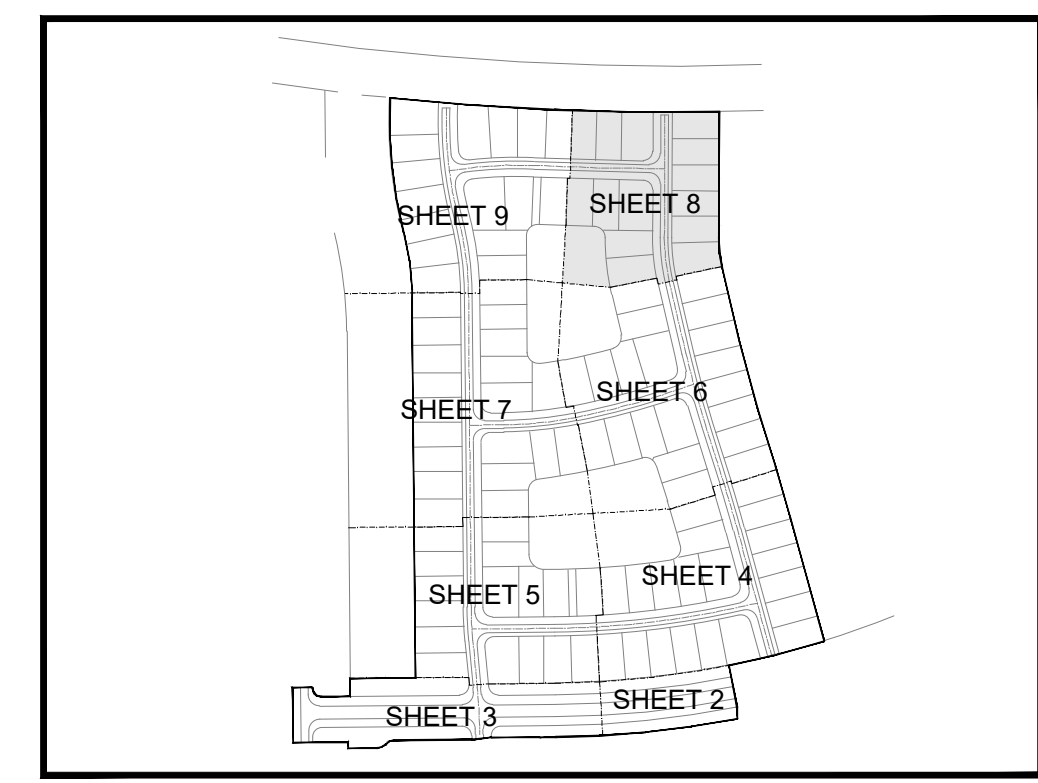
MATCH LINE SHEET 9



MATCH LINE SHEET 6



TYPICAL SINGLE FAMILY LOT DETAIL  
N.T.S.



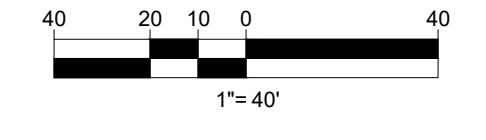
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CITY OF PSL PROJECT NO. P21-118  
PSLUSD FILE NO. 5268E

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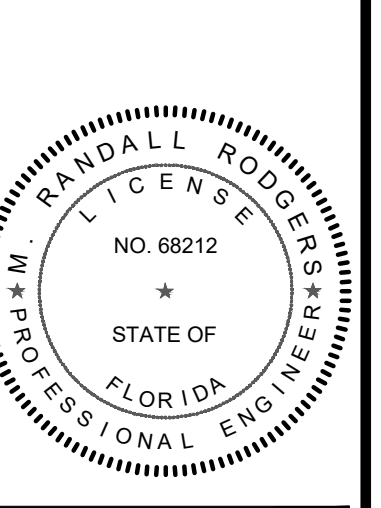




| BY: | DATE:    | COMMENT:          |
|-----|----------|-------------------|
| SG  | 06/23/21 | PER SPRC COMMENTS |
| JM  | 09/14/21 | PER GL MARKUPS    |
| SG  | 10/06/21 | PER GL MARKUPS    |

PROJECT:  
**RIVERLAND PARCEL B**  
**PLAT FOUR**  
 CITY OF PORT ST. LUCIE,  
 FLORIDA

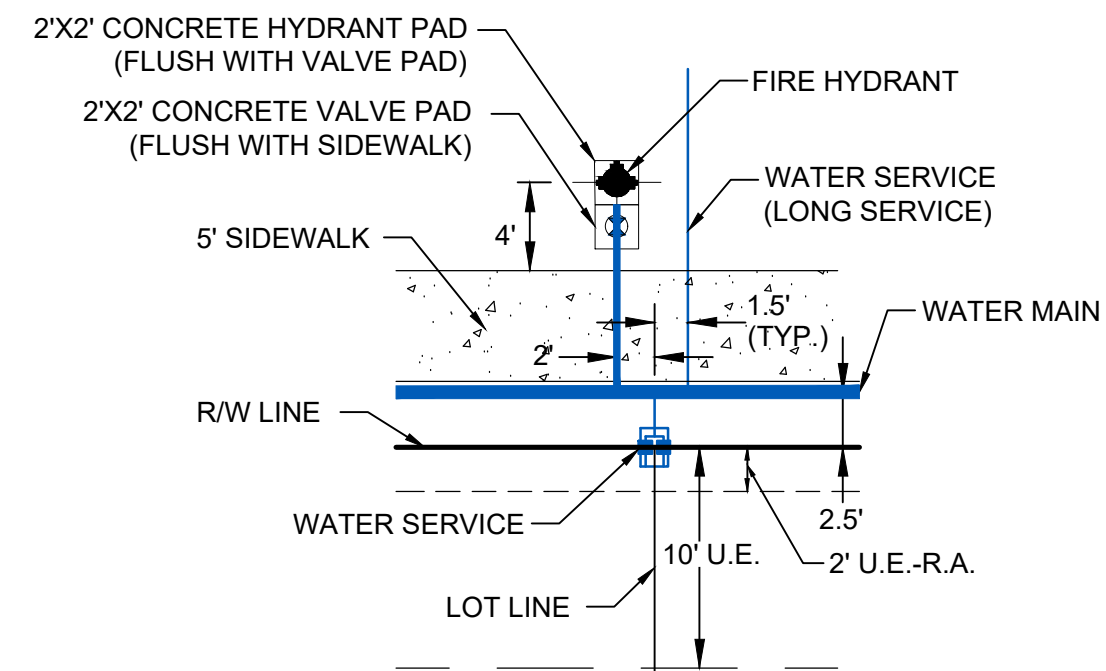
CLIENT:  
**RIVERLAND ASSOCIATES II**  
**LLLP**  
 CITY OF PORT ST. LUCIE,  
 FLORIDA



M. RANDALL RODGERS, PE  
 FLORIDA LICENSE No. 68212  
 10/25/21

PROJECT No.: 21-1013  
 DRAWN BY: SOC  
 CHECKED BY: RR  
 DATE: 10/25/2021  
 CAD ID: 21-1013-WS PLAN

SHEET TITLE:  
**WATER AND SEWER PLAN**  
 SHEET NUMBER:  
**09**



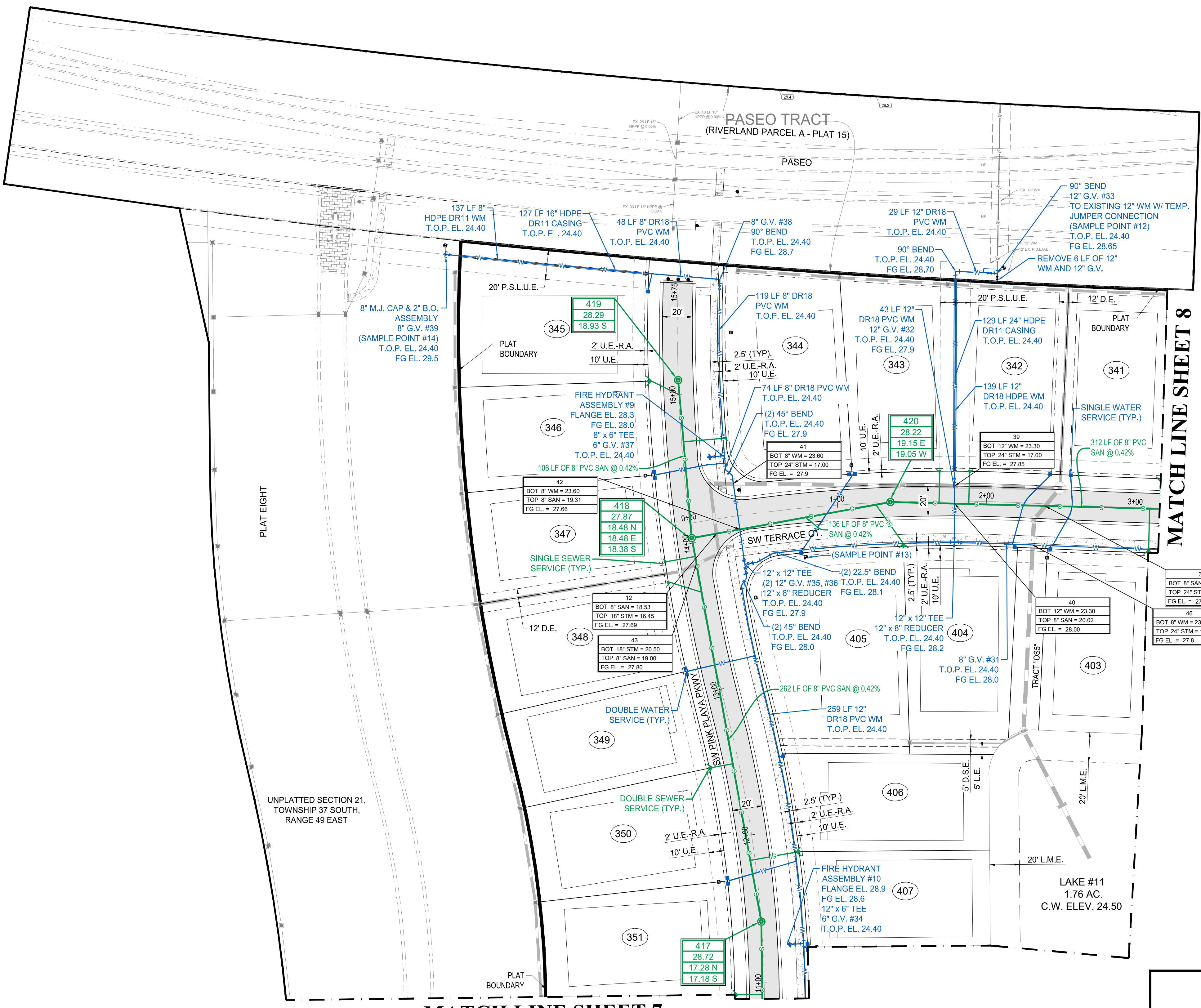
**TYPICAL FIRE HYDRANT AND WATER SERVICE DETAIL**  
 N.T.S.

**LEGEND**

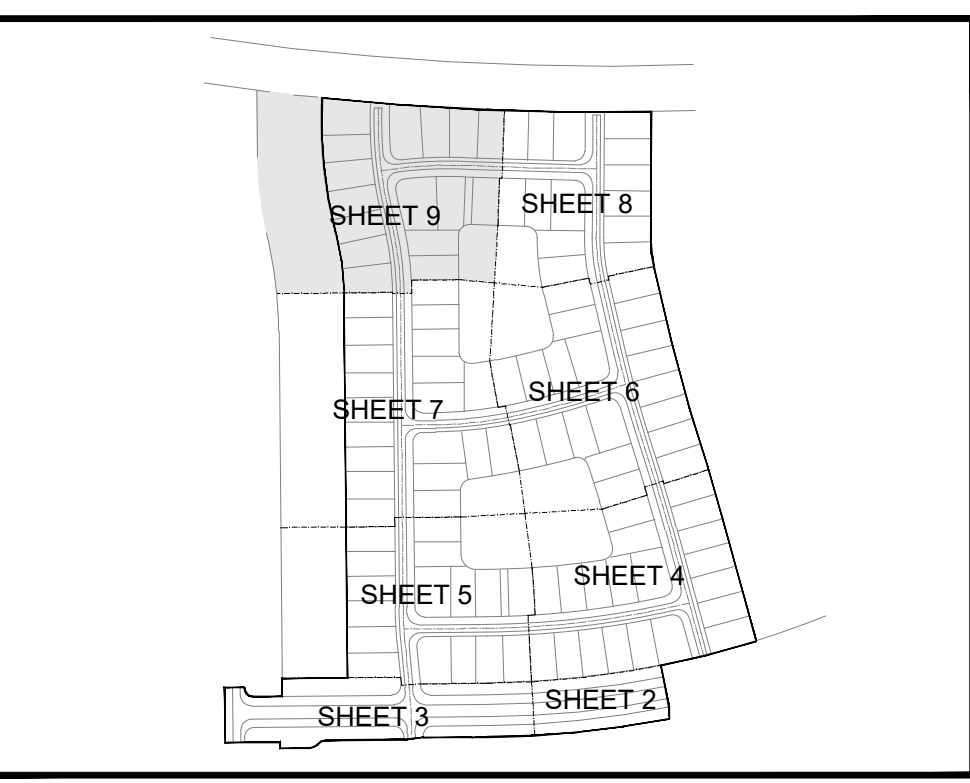
|  |            |
|--|------------|
| WATER MAIN WITH VALVE  |            |
| SINGLE WATER SERVICE, DOUBLE WATER SERVICE AND FIRE HYDRANT  |            |
| SANITARY SEWER MAIN WITH SINGLE SEWER SERVICE, DOUBLE WATER SERVICE, MANHOLE, CALLOUT AND FLOW DIRECTION |            |
| STORM SEWER WITH CATCH BASIN   |            |
| BACTERIOLOGICAL SAMPLE POINT   |            |
| STREET LIGHTS  |            |
| LOT NUMBER   |            |
| BUFFER EASEMENT  | B.E.       |
| DRAINAGE EASEMENT  | D.E.       |
| DRAINAGE SWALE EASEMENT  | D.S.E.     |
| ELEVATION  | EL.        |
| FINISHED GRADE   | FG         |
| FIRE HYDRANT   | F.H.       |
| FORCE MAIN   | FM         |
| GATE VALVE   | G.V.       |
| INVERT   | INV.       |
| LANDSCAPE EASEMENT   | L.E.       |
| LAKE MAINTENANCE ACCESS EASEMENT   | L.M.A.E.   |
| LAKE MAINTENANCE EASEMENT  | L.M.E.     |
| MANHOLE  | MH         |
| OPEN SPACE   | O.S.       |
| POINT OF SERVICE   | P.O.S.     |
| CITY OF PORT ST. LUCIE UTILITY EASEMENT  | P.S.L.U.E. |
| CITY OF PORT ST. LUCIE UTILITY SYSTEMS DEPARTMENT  | PSLUSD     |
| SANITARY SEWER   | SAN        |
| TOP OF PIPE  | T.O.P.     |
| UTILITY EASEMENT   | U.E.       |
| UTILITY EASEMENT - RESTRICTED AREA (SEE "U.E." PLAT DEDICATION)  | U.E.-R.A.  |
| WATER MAIN   | WM         |

**NOTES:**

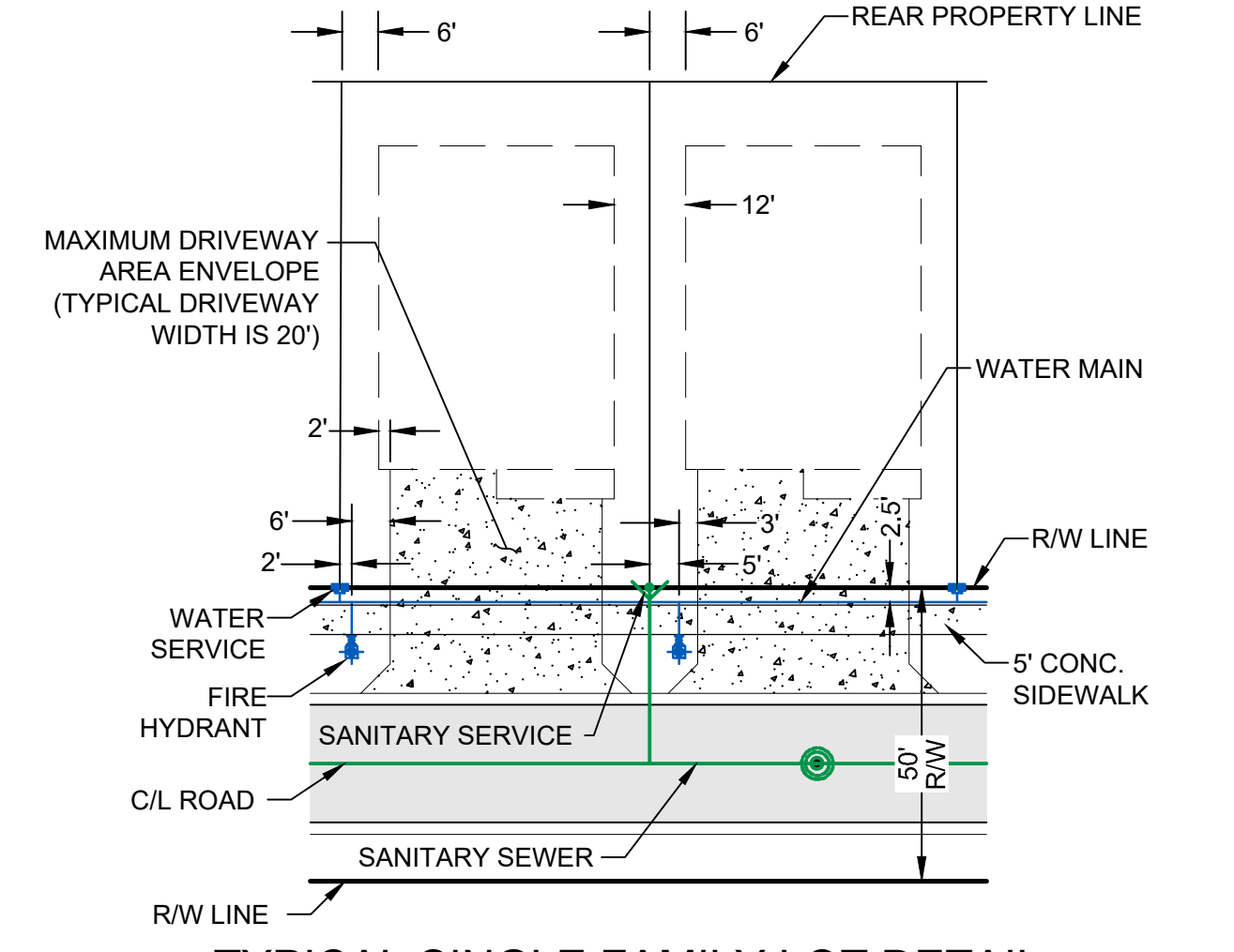
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**MATCH LINE SHEET 7**



**KEY MAP**  
 N.T.S.



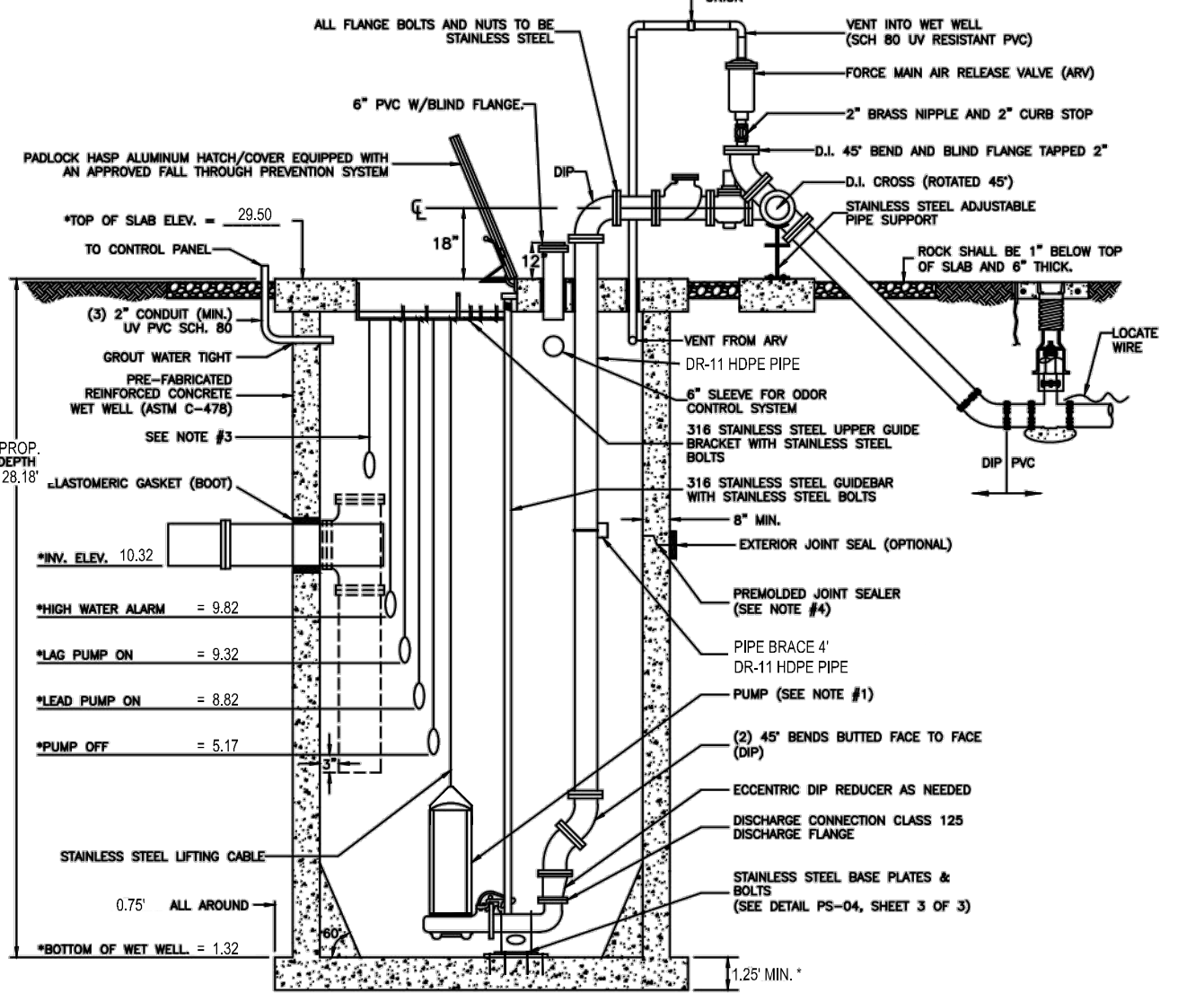
**TYPICAL SINGLE FAMILY LOT DETAIL**  
 N.T.S.



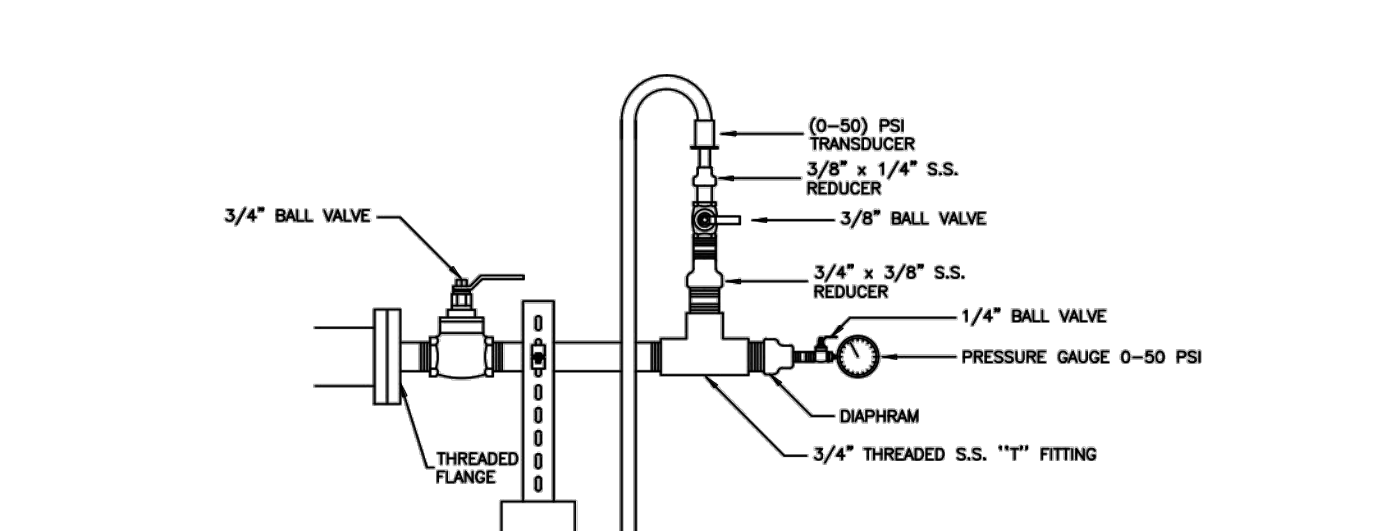
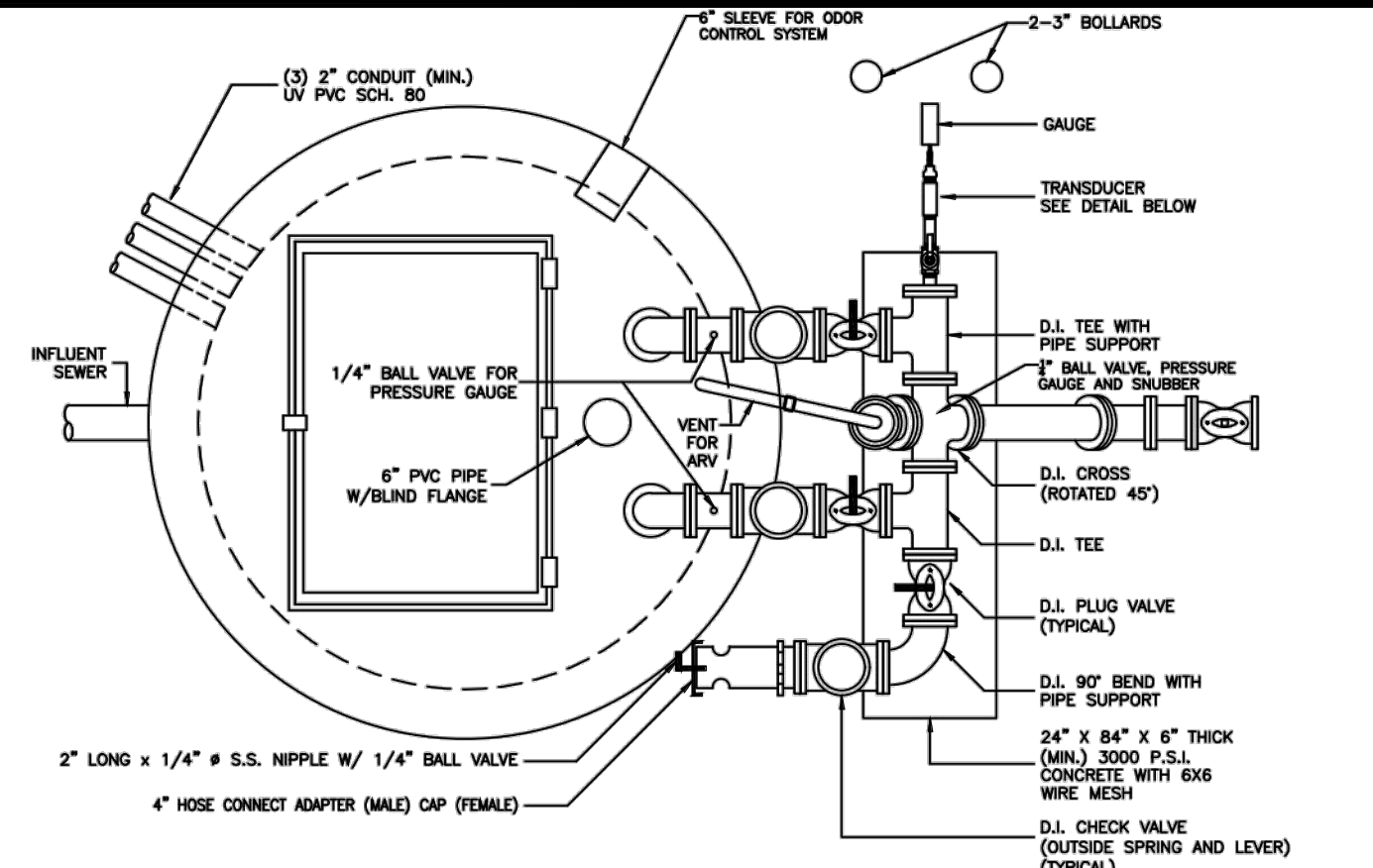
CITY OF PSL PROJECT NO. P21-118  
 PSLUSD FILE NO. 5268E



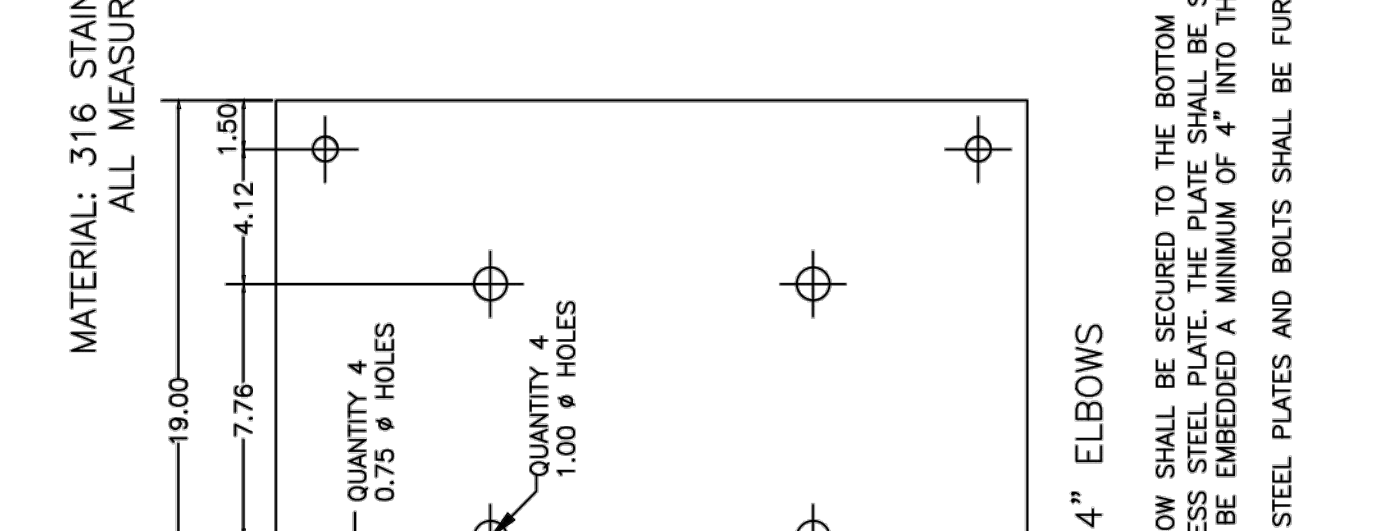
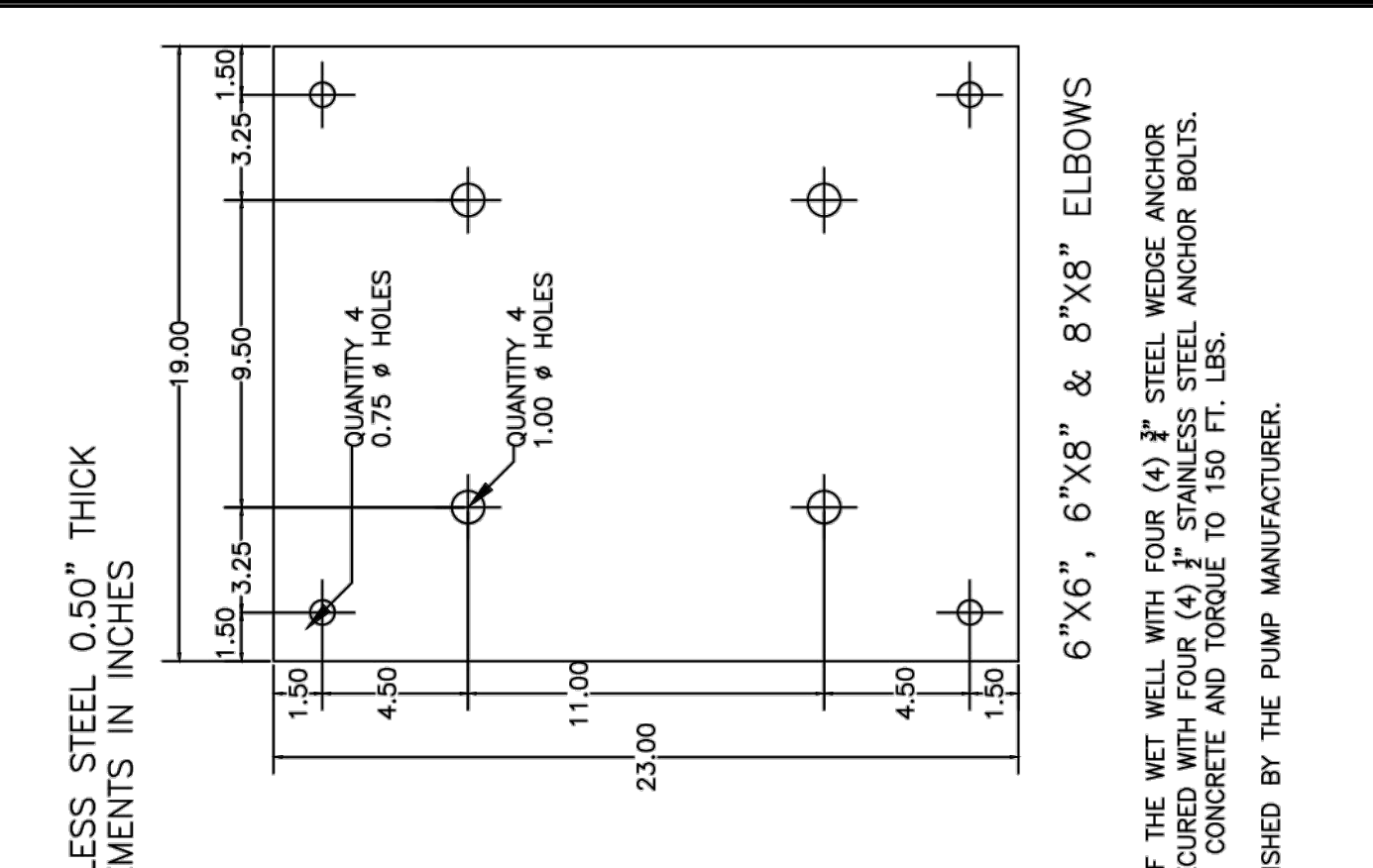
**PUMP DATA:**  
 MANUFACTURER: SULLZER  
 MODEL NUMBER: 2200000-001  
 IMPELLER NUMBER: 220.01  
 HP: 2.2  
 RPM: 1787  
 VELTS: 3 PHASE 480 HERTZ  
 OPERATING CONDITIONS:  
 440 GPM AT 83 TDH  
 81.02 % EFFICIENCY  
 SIZED FOR MINIMUM PUMP CYCLE TIME OF 12 MINUTES AND A MAXIMUM OF 6 PUMP STARTS PER HOUR.  
 WORKING DEPTH: 3.65 FT. WORKING VOLUME: 1.372 GALS.



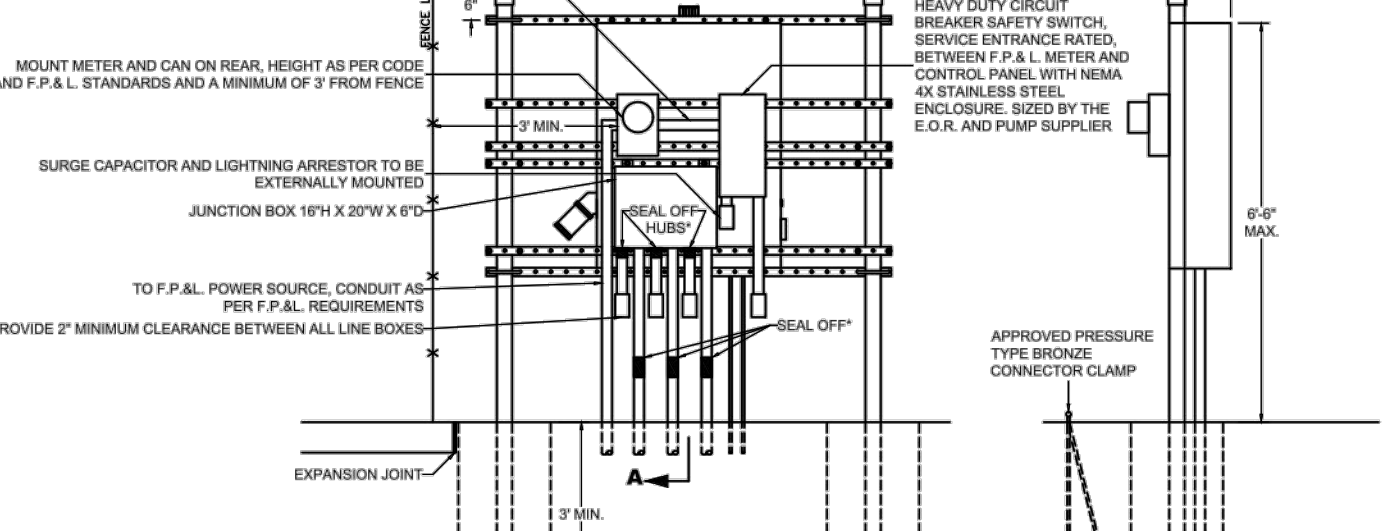
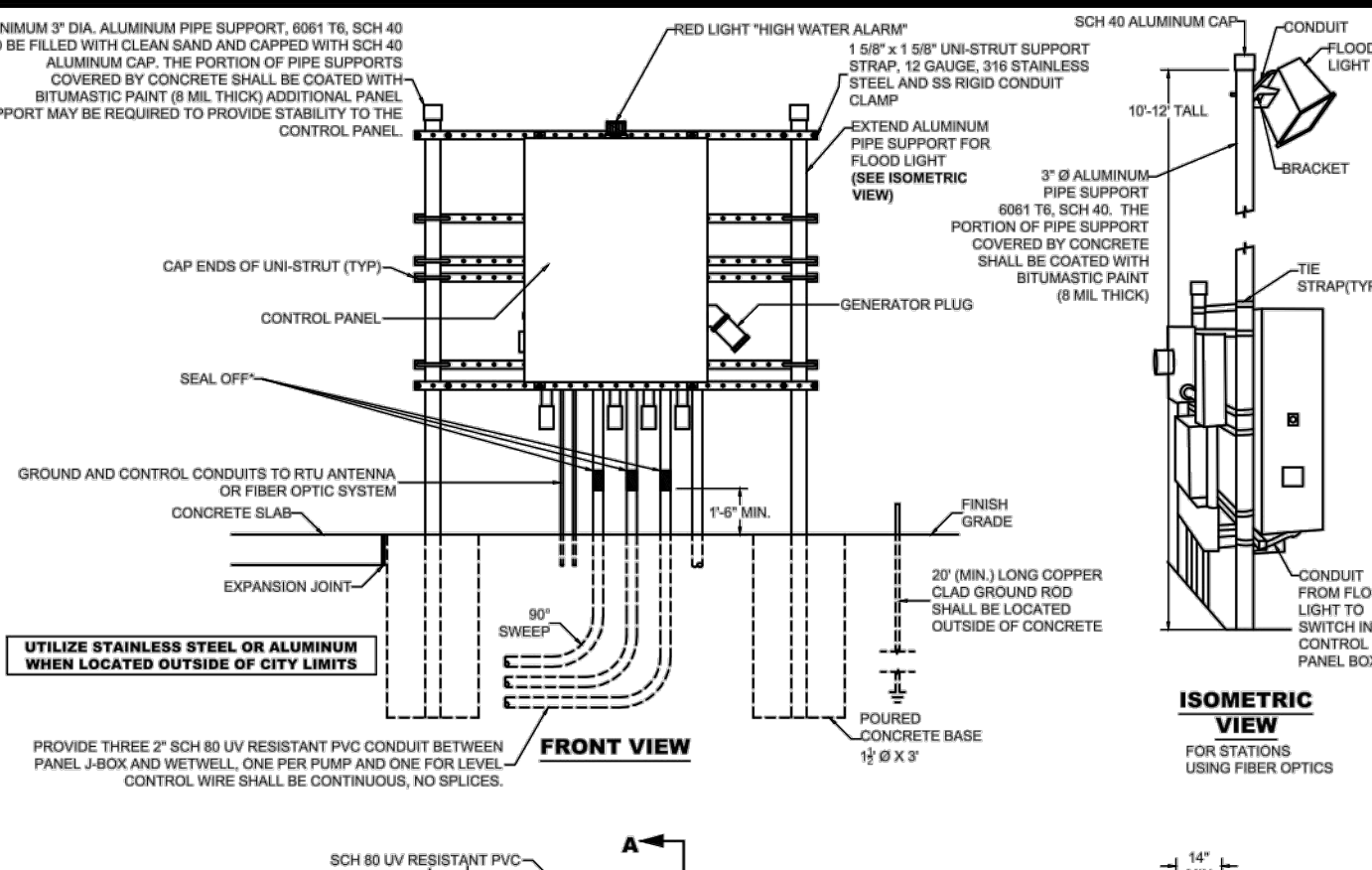
**NOTES:**  
 1. THE DESIGN SPECIFICATIONS FOR THE WET WELL PUMPS, CONTROL ELEVATIONS AND DISCHARGE PIPING SHALL BE AS SPECIFIED BY THE ENGINEER-OF-RECORD, IN ACCORDANCE WITH THE UTILITY STANDARDS.  
 2. WET WELL INTERIOR WALLS SHALL BE PROTECTED WITH A LINER. THE WET WELL EXTERIOR SHALL BE COATED WITH AN APPROVED SEALANT (SEE DETAIL). THE SPACE BETWEEN THE DISCHARGE PIPES AND THE TOP SLAB SHALL BE FILLED WITH NON-CRIMPING NON-FRAGILE GRANULAR FILL.  
 3. A FLOOD SHALL BE PROVIDED FOR ALARM AND TO CONTROL BACKUP RELAY SYSTEM FOR THE PUMPS.  
 4. ALL OPENINGS FOR PIPES AND CONDUITS SHALL BE PRECAST. ALL JOINTS AND TOP SLAB SHALL BE SEALED WITH AN APPROVED SEALANT (SEE DETAIL). THE SPACE BETWEEN THE DISCHARGE PIPES AND THE TOP SLAB SHALL BE FILLED WITH NON-CRIMPING NON-FRAGILE GRANULAR FILL.  
 5. THE INFLUENT PIPE DETAIL SHOWN ABOVE IS FOR A GRAVITY SEWER. FOR FORCE MAINS FROM A LIFT STATION OR LOW PRESSURE SEWER SYSTEM, A TEE SHALL BE INSTALLED AS SHOWN WITH DASHED LINE.  
 6. ONE PUMP SHALL BE EQUIPPED WITH A WET-FLUSH VALVE.  
 7. THE DISCHARGE PIPE SHALL BE SCH-40 STAINLESS STEEL OR DR-11 HOPE PIPE TO THE FLANGE ABOVE THE GROUND.  
 8. ALL THROUGH WELLS SHALL BE 316 STAINLESS STEEL. ALL BOLTS AND NUTS SHALL BE 304 STAINLESS STEEL.



**NOTES:**  
 USE CLOSED NIPPLES WHERE POSSIBLE.



**MATERIAL: 316 STAINLESS STEEL 0.50" THICK**  
**ALL MEASUREMENTS IN INCHES**



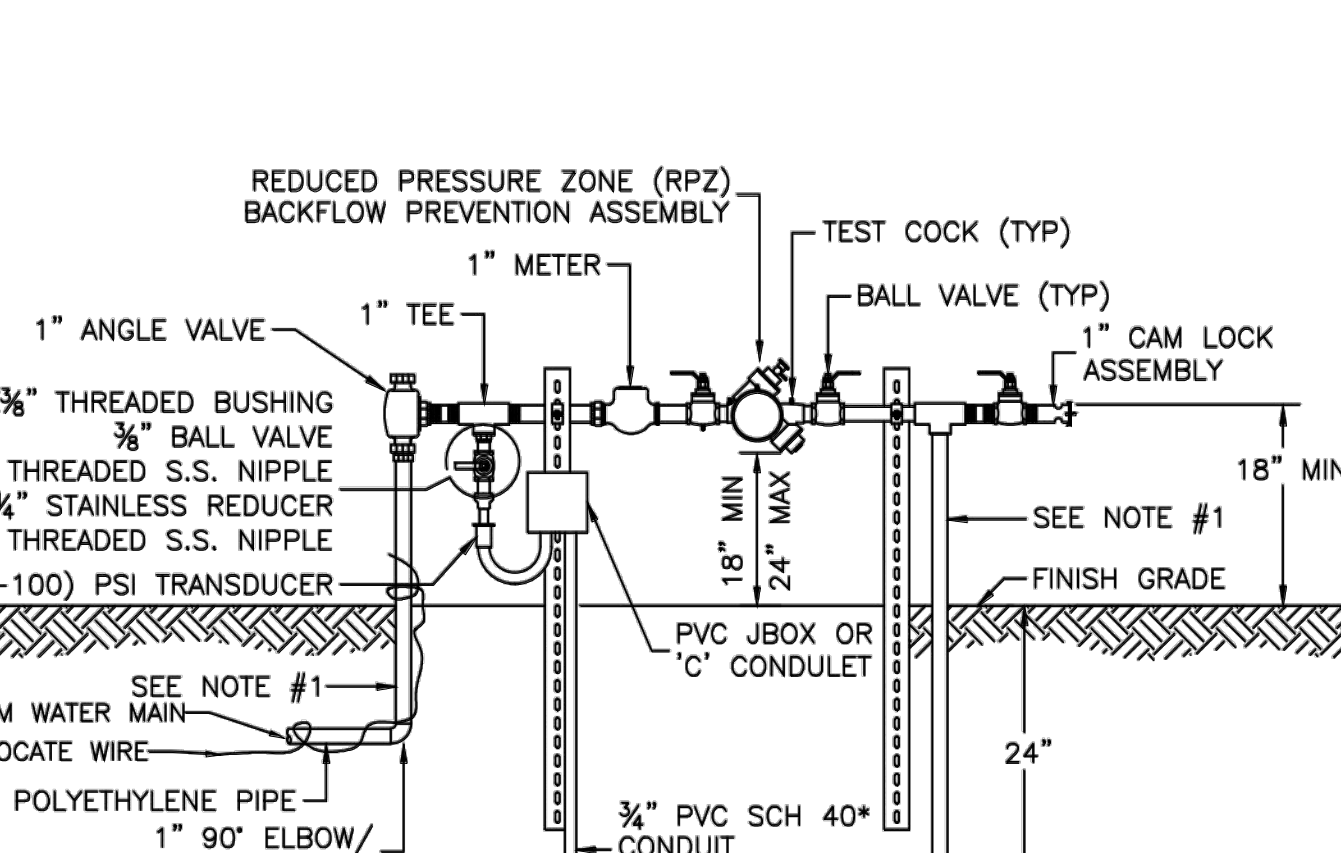
**NOTES:**  
 1. THE HORIZONTAL DISTANCE FROM THE FACE OF THE CONTROL PANEL TO THE EDGE OF THE WET WELL SHALL BE 4".  
 2. A BACKFLOW PREVENTION ASSEMBLY AND WATER METER SHALL BE PROVIDED PER DETAIL PS-07.  
 3. SEALED WITH CHCO COMPOUND.  
 4. THE PRECAST, CONTROL PANEL AND RELATED COMPONENTS SHALL NOT BE PAINTED.  
 5. A TRANSFORMER MAY BE ALLOWED ON A CASE-BY-CASE BASIS WHEN REQUESTED IN ADVANCE BY THE ENGINEER-OF-RECORD (EOR) AND APPROVED IN WRITING BY THE PLSUD.  
 6. THE BOTTOM OF THE PRECAST AND CONTROL PANEL SHALL BE SPECIFIED ON THE SHOP DRAWINGS BY THE EOR.  
 7. SUPPORT LEGS MANUFACTURED BY THE PANEL MANUFACTURER SHALL BE PROVIDED AS NEEDED TO SUPPORT LARGE CONTROL PANELS.

**MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE**  
 900 S.E. OGDEN LANE  
 PORT ST. LUCIE, FL 34983  
 PHONE (772) 873-6400 FAX (772) 873-6433

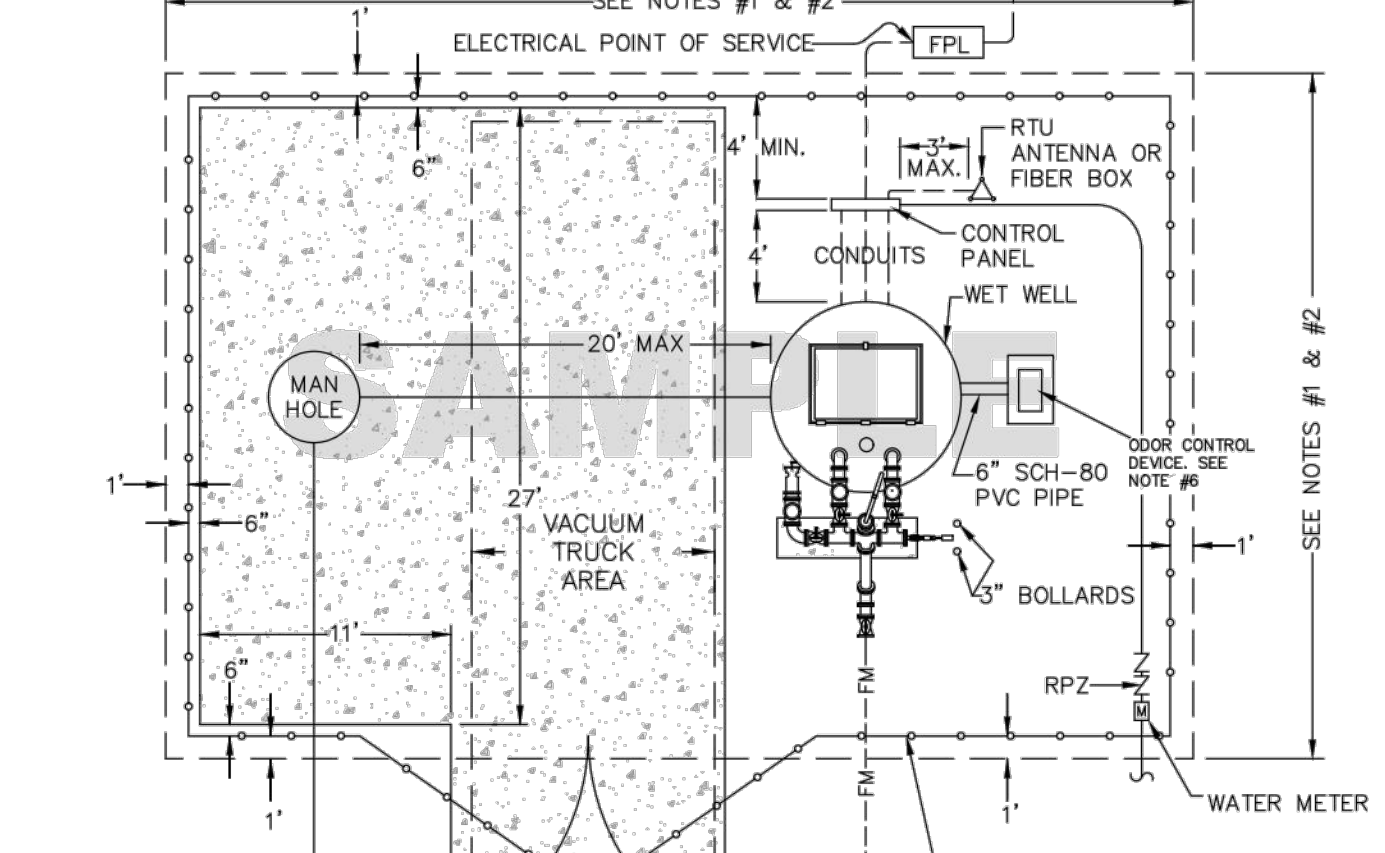
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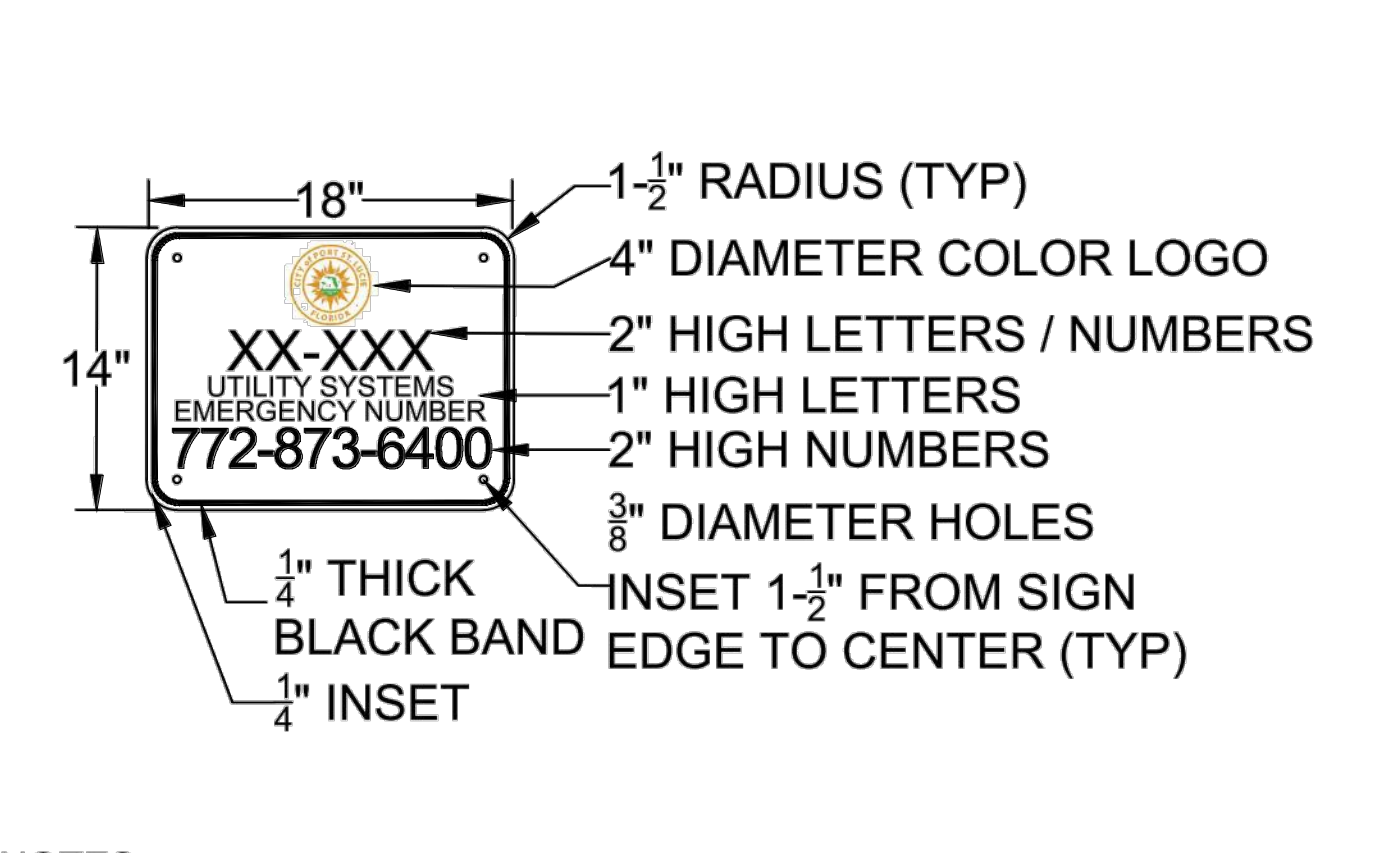
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**NOTES:**  
 1. BOTH RISERS SHALL BE BRASS OR TYPE "K" COPPER TUBING (HARD DRAW) WITH COPPER / BRASS FITTINGS AND ADAPTERS (NO CRIMPING JOINTS).  
 2. A 16 GAUGE STP CABLE SHALL BE INSTALLED IN THE CONDUIT FROM THE PRESSURE TRANSDUCER TO THE CONTROL PANEL WITH 15' OF CABLE COILED IN THE PANEL. A PVC JBOX OR "C" CONDULET SHALL BE USED.  
 3. SUPPORT SYSTEM WITH STAINLESS STEEL UNISTRUTE.



**NOTES:**  
 1. MINIMUM EASEMENTS 30'X45' SHALL BE PROVIDED FOR PUMP SYSTEMS.  
 2. ENGINEER TO DETAIL EXACT SITE LAYOUT FOR EACH LIFT STATION WITH ACTUAL DIMENSIONS. DIMENSIONS SHALL BE BASED ON REQUIREMENTS OF THE UTILITY STANDARDS AND STANDARD DETAILS PERTAINING TO PUMP STATIONS. THE LOCATION OF HINGES ON THE WET WELL SHALL BE INDICATED.  
 3. ACCESS DRIVE - 6" THICK, 12" WIDE CONCRETE 4000 PSI W/FIBER MESH AND COMPACTED SUBGRADE TO 95% DENSITY EXTENDED 6" BEYOND ALL EDGES. MUST BE ABLE TO OPEN BOTH GATES WITH SERVICE TRUCK ON DRIVEWAY.  
 4. ALL AREAS INSIDE FENCE THAT ARE NOT COVERED BY CONCRETE, STRUCTURES AND EQUIPMENT SHALL HAVE # 57 STONE. THE STONE SHALL BE PLACED OVER 2-PLY 4 MIL. VISQUEEN, A MINIMUM OF 6" BUT NO MORE THAN 8" DEEP.  
 5. A 12'X48' AREA SHALL BE PROVIDED WITHIN 10 FEET OF WET WELL FOR A VACUUM TRUCK. THE AREA SHALL BE SHOWN ON THE SITE PLAN REQUIRED IN NOTE #2 ABOVE.  
 6. ODOR CONTROL SYSTEM MUST BE INSTALLED IN ACCORDANCE WITH THE UTILITY STANDARDS AND THE QUALIFIED PRODUCTS LIST AND SIZED BY THE ENGINEER OF RECORD. SEE SECTION VIEW.



**NOTES:**  
 1. SIGN SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR.  
 2. LIFT STATION DESIGNATION NUMBER (XX-XXX) WILL BE ASSIGNED BY PLSUD.  
 3. THE SIGN SHALL BE 1/8" ALUMINUM WITH REFLECTIVE WHITE BACKGROUND AND BLACK LETTERING.  
 4. THE SIGN SHALL BE MOUNTED ON LIFT STATION GATE OR FENCE A MINIMUM 48" FROM BOTTOM OF FENCE AND SHALL BE VISIBLE FROM STREET. THE SIGN SHALL BE PERMANENTLY ATTACHED TO THE FENCE WITH STAINLESS STEEL HARDWARE.

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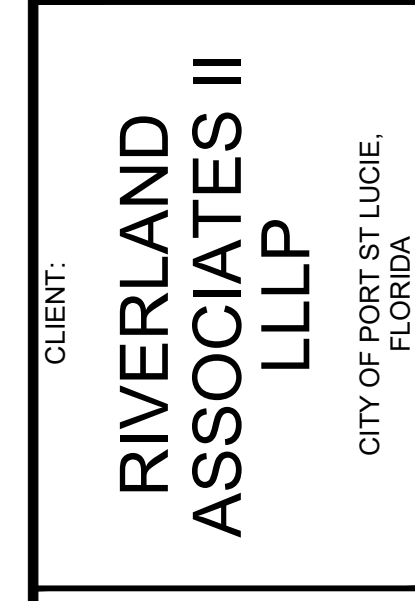
**MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE**  
 900 S.E. OGDEN LANE  
 PORT ST. LUCIE, FL 34983  
 PHONE (772) 873-6400 FAX (772) 873-6433



| REVISONS: | DATE:    | COMMENT:          |
|-----------|----------|-------------------|
| SG        | 06/23/21 | PER SPRC COMMENTS |
| SG        | 08/24/21 | PER SPRC COMMENTS |

**RIVERLAND PARCEL B  
 PLAT FOUR**  
 CITY OF PORT ST. LUCIE,  
 FLORIDA

**RIVERLAND ASSOCIATES II  
 LLLP**  
 CITY OF PORT ST. LUCIE,  
 FLORIDA

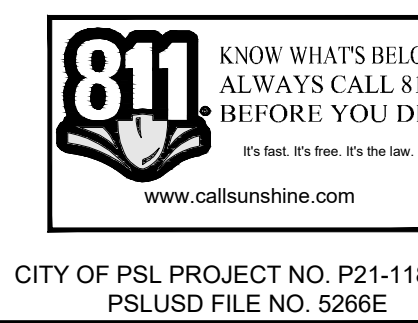


M. RANDALL RODGERS, PE  
 FLORIDA LICENSE NO. 68212  
 10/25/21

PROJECT No.: 21-1013  
 DRAWN BY: SOC  
 CHECKED BY: RR  
 DATE: 10/25/2021  
 PSLUD-033 - LIFT STATION DETAILS

SHEET TITLE:  
**LIFT STATION  
 DETAILS**

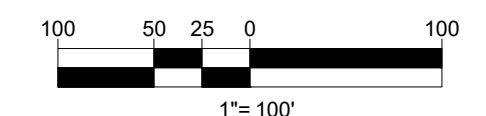
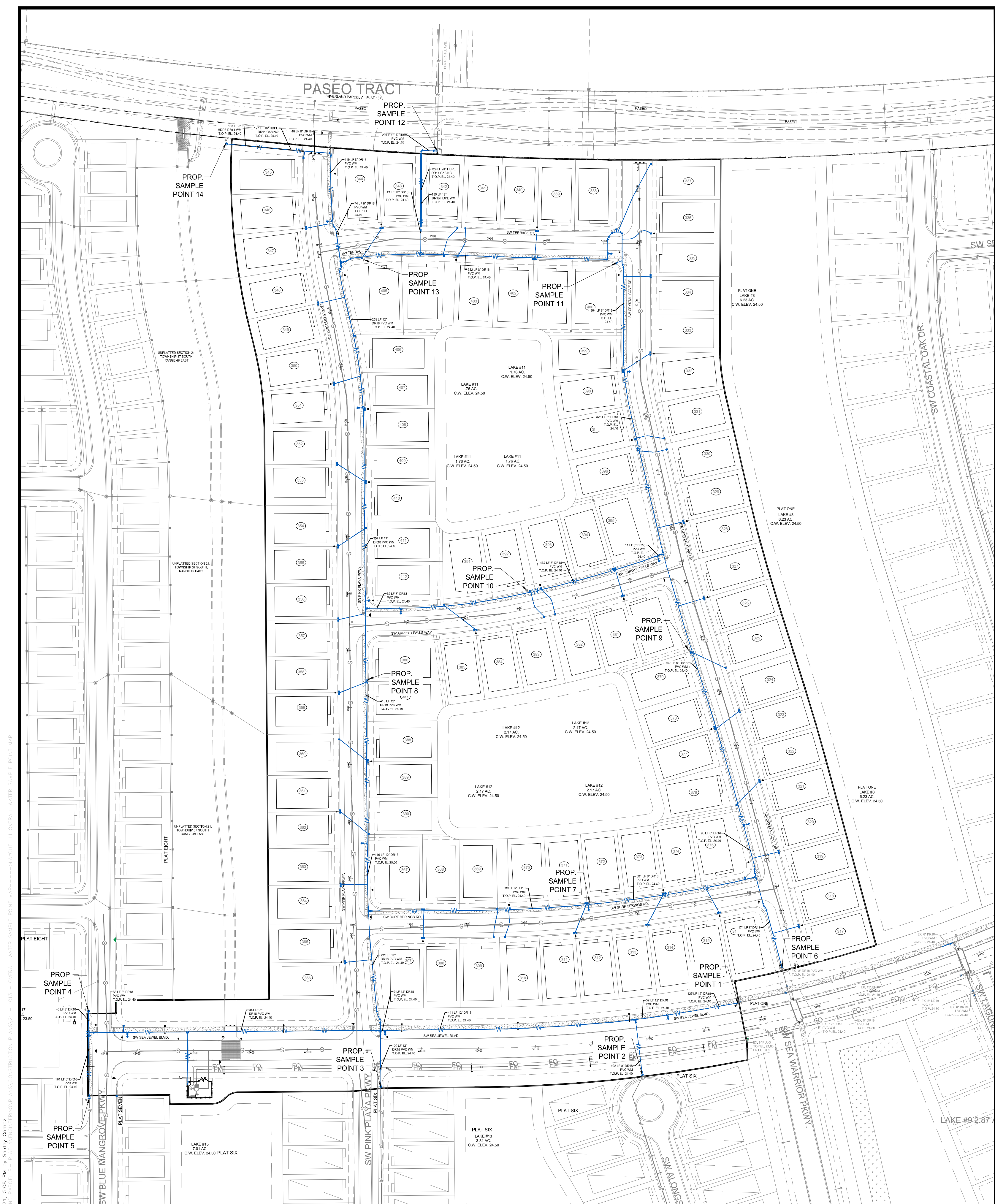
SHEET NUMBER:  
**10**



CITY OF PSL PROJECT NO. P21-118  
 PLSUD FILE NO. 5268E

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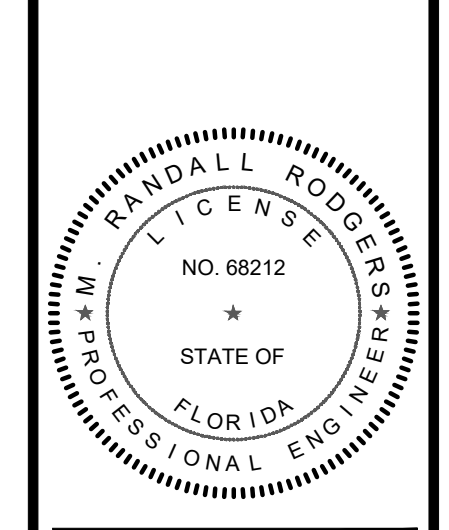
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| REVISIONS: |           |
|------------|-----------|
| BY:        | DATE:     |
| SG         | 06/23/21  |
|            | COMMENT:  |
|            | PER SPRIC |
|            | COMMENTS  |

PROJECT:  
**RIVERLAND PARCEL B  
 PLAT FOUR**  
 CITY OF PORT ST. LUCIE,  
 FLORIDA

CLIENT:  
**RIVERLAND  
 ASSOCIATES II  
 LLLP**  
 CITY OF PORT ST. LUCIE,  
 FLORIDA



M. RANDALL RODGERS, PE  
 FLORIDA LICENSE No. 68212  
 10/25/21

PROJECT No.: 21-1013  
 DRAWN BY: SOC  
 CHECKED BY: RR  
 DATE: 10/25/2021  
 CAD: 1013 - OVERALL WATER  
 SAMPLE POINT MAP

SHEET TITLE:  
**OVERALL WATER  
 SAMPLE POINT  
 MAP**

SHEET NUMBER:  
**11**



CITY OF PSL PROJECT NO. P21-118  
 PSLUSD FILE NO. 5268E

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 C:\Users\shirley\OneDrive\Desktop\21-1013 - OVERALL WATER SAMPLE POINT MAP\21-1013 - OVERALL WATER SAMPLE POINT MAP



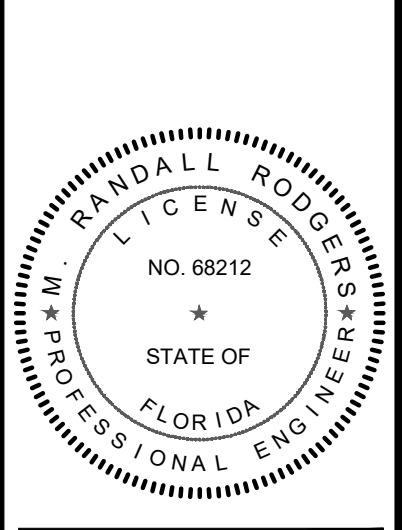


ENGINEERING & SURVEYING, LLC  
 1449 NW COMMERCIAL CENTRE DR  
 FORT ST. LUCIE, FL 34986  
 PHONE: (772) 879-5477  
 FAX: (772) 879-3222

| REVISIONS: |                   |
|------------|-------------------|
| BY:        | DATE:             |
| SG         | 06/23/21          |
|            | PER SPRC COMMENTS |

PROJECT:  
**RIVERLAND PARCEL B  
 PLAT FOUR**  
 CITY OF PORT ST. LUCIE,  
 FLORIDA

CLIENT:  
**RIVERLAND  
 ASSOCIATES II  
 LLLP**  
 CITY OF PORT ST. LUCIE,  
 FLORIDA

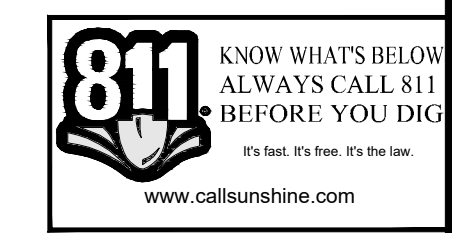


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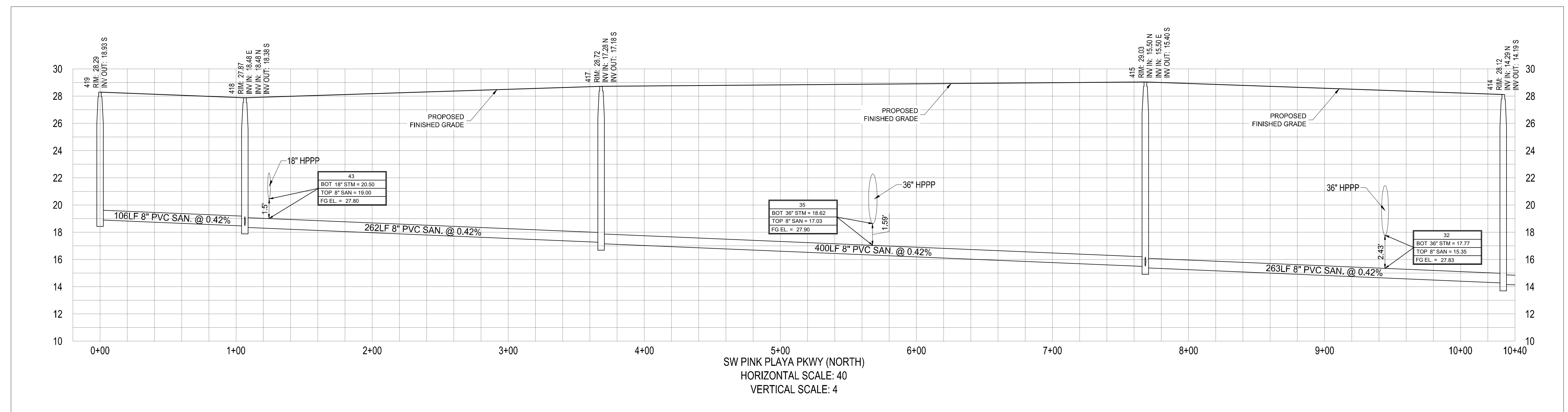
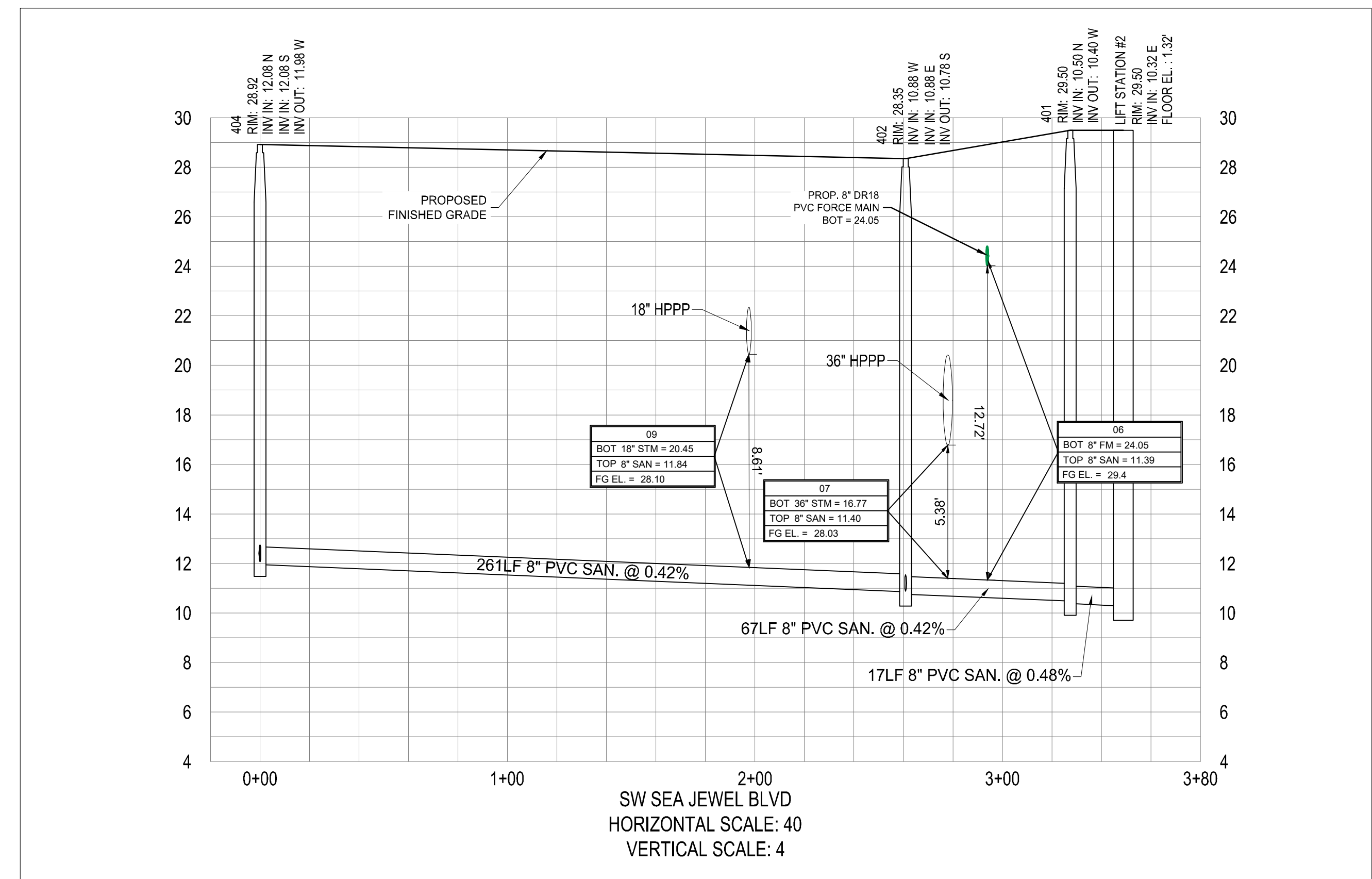
PROJECT No.: 21-1013  
 DRAWN BY: SOC  
 CHECKED BY: RR  
 DATE: 10/25/2021  
 CAD I.D.: 21 - 1013 - PROFILES

SHEET TITLE:  
**PROFILES**

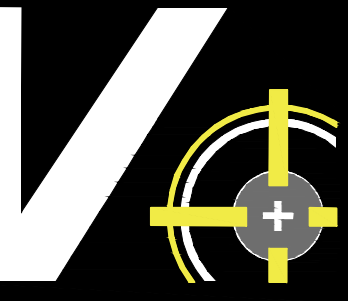
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**12**



CITY OF PSL PROJECT NO. P21-118  
 PSLUSD FILE NO. 5268E







**VELCON**

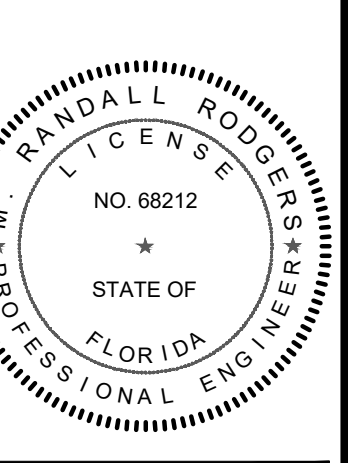
ENGINEERING & SURVEYING, LLC  
1449 NW COMMERCIAL CENTRE DR  
PORT ST. LUCIE, FL 34986  
PHONE: (772) 879-5477  
FIRE: C.O.A. # 3222

| REVISIONS: |          |
|------------|----------|
| BY:        | DATE:    |
| SG         | 06/23/21 |
| JM         | 09/24/21 |

COMMENT:  
PER SPRK COMMENTS  
PER PLSUSD MARKUPS

PROJECT:  
**RIVERLAND PARCEL B  
PLAT FOUR**  
CITY OF PORT ST. LUCIE,  
FLORIDA

CLIENT:  
**RIVERLAND ASSOCIATES II  
LLLP**  
CITY OF PORT ST. LUCIE,  
FLORIDA

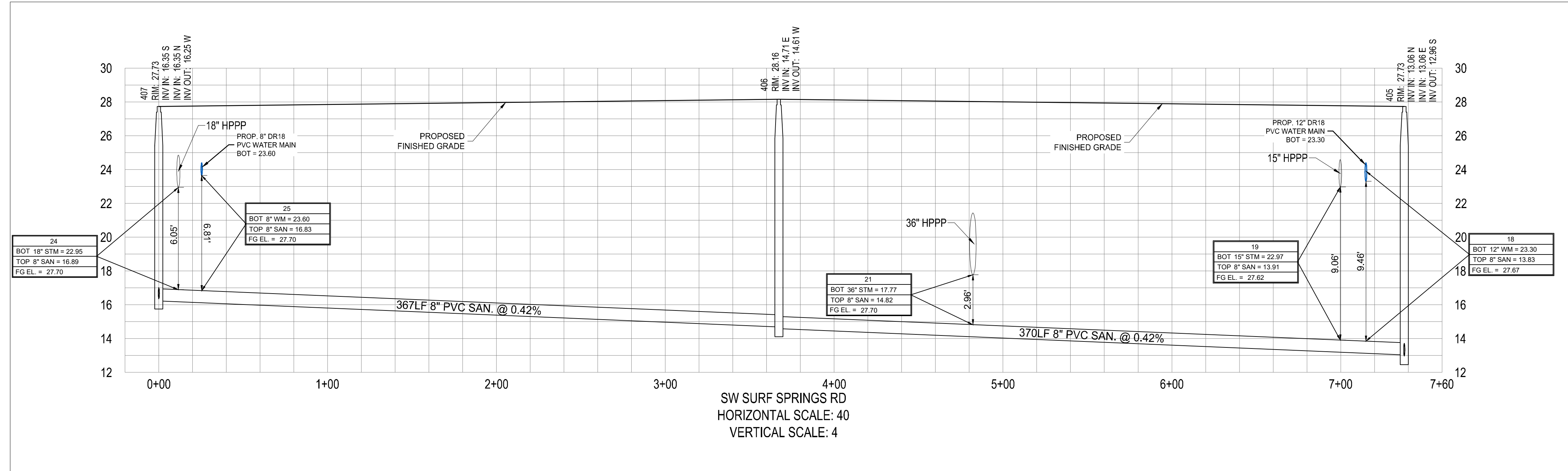
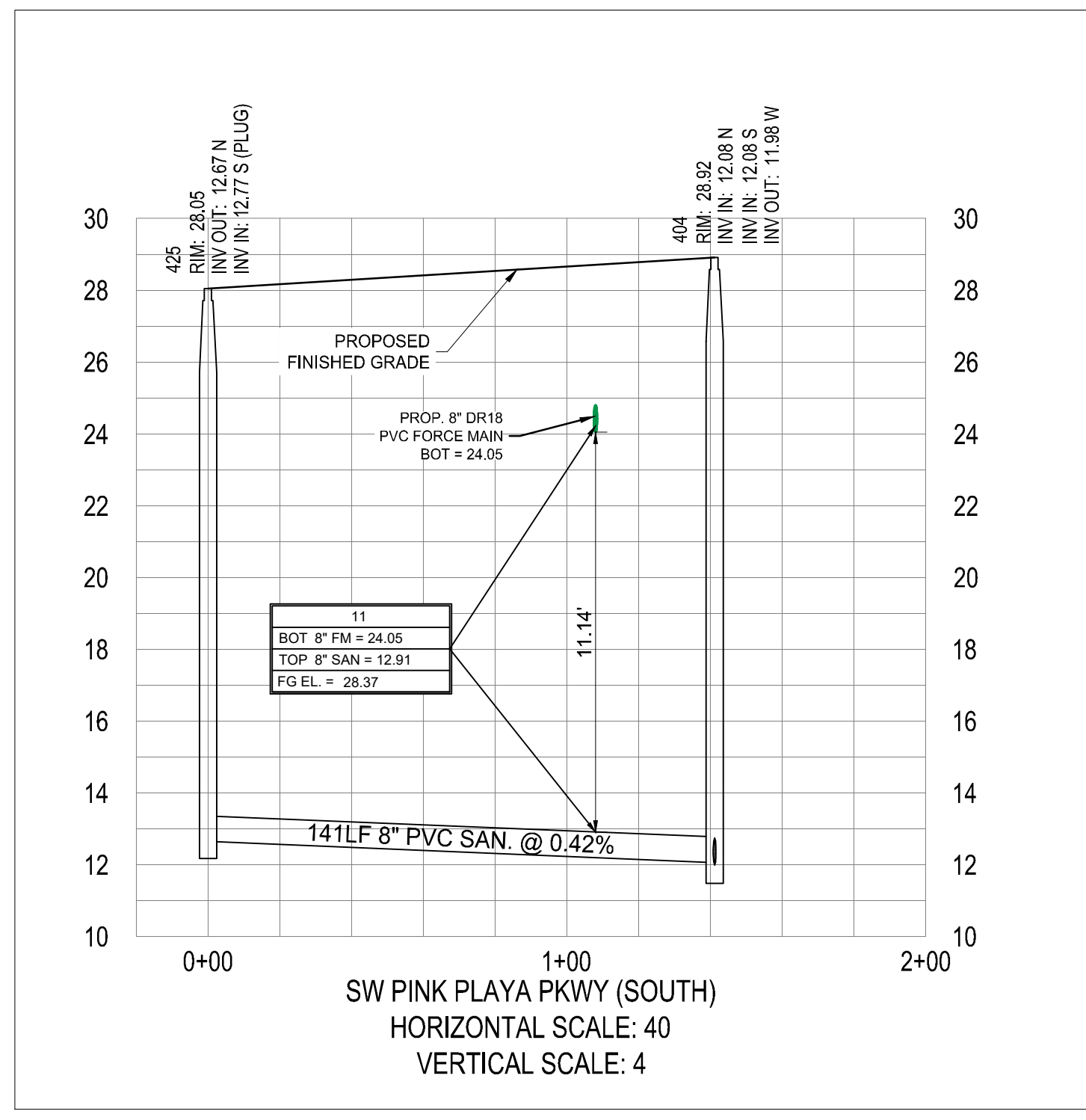
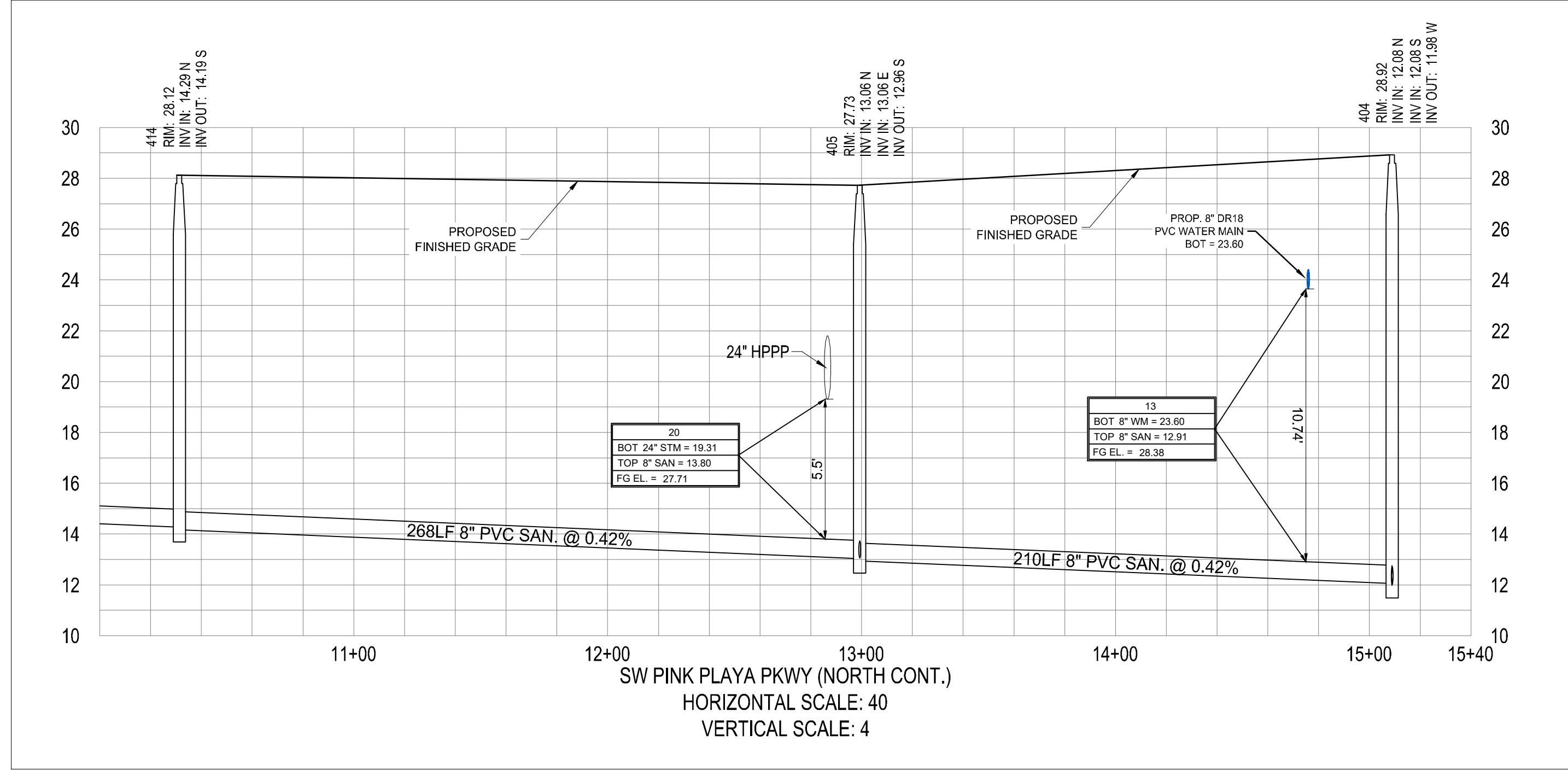


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10/25/21

PROJECT No.: 21-1013  
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CHECKED BY: RR  
DATE: 10/25/2021  
CAD ID.: 21 - 1013 - PROFILES

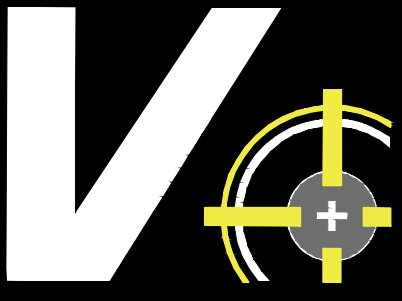
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**13**



CITY OF PSL PROJECT NO. P21-118  
PLSUSD FILE NO. 5266E





**VELCON**

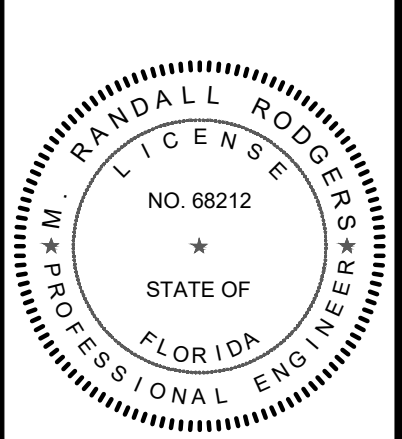
ENGINEERING & SURVEYING, LLC  
1449 NW COMMERCIAL CENTRE DR  
PORT ST. LUCIE, FL 34986  
PHONE: (772) 879-5077  
FIRE: C.O.A. # 32252

| REVISIONS: |                   |
|------------|-------------------|
| BY:        | DATE:             |
| SG         | 06/23/21          |
|            | PER SPRC COMMENTS |

| COMMENTS: |  |
|-----------|--|
|           |  |

PROJECT:  
**RIVERLAND PARCEL B  
PLAT FOUR**  
CITY OF PORT ST. LUCIE,  
FLORIDA

CLIENT:  
**RIVERLAND  
ASSOCIATES II  
LLLP**  
CITY OF PORT ST. LUCIE,  
FLORIDA

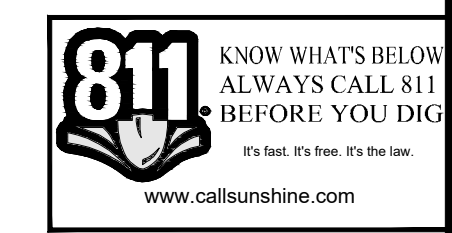
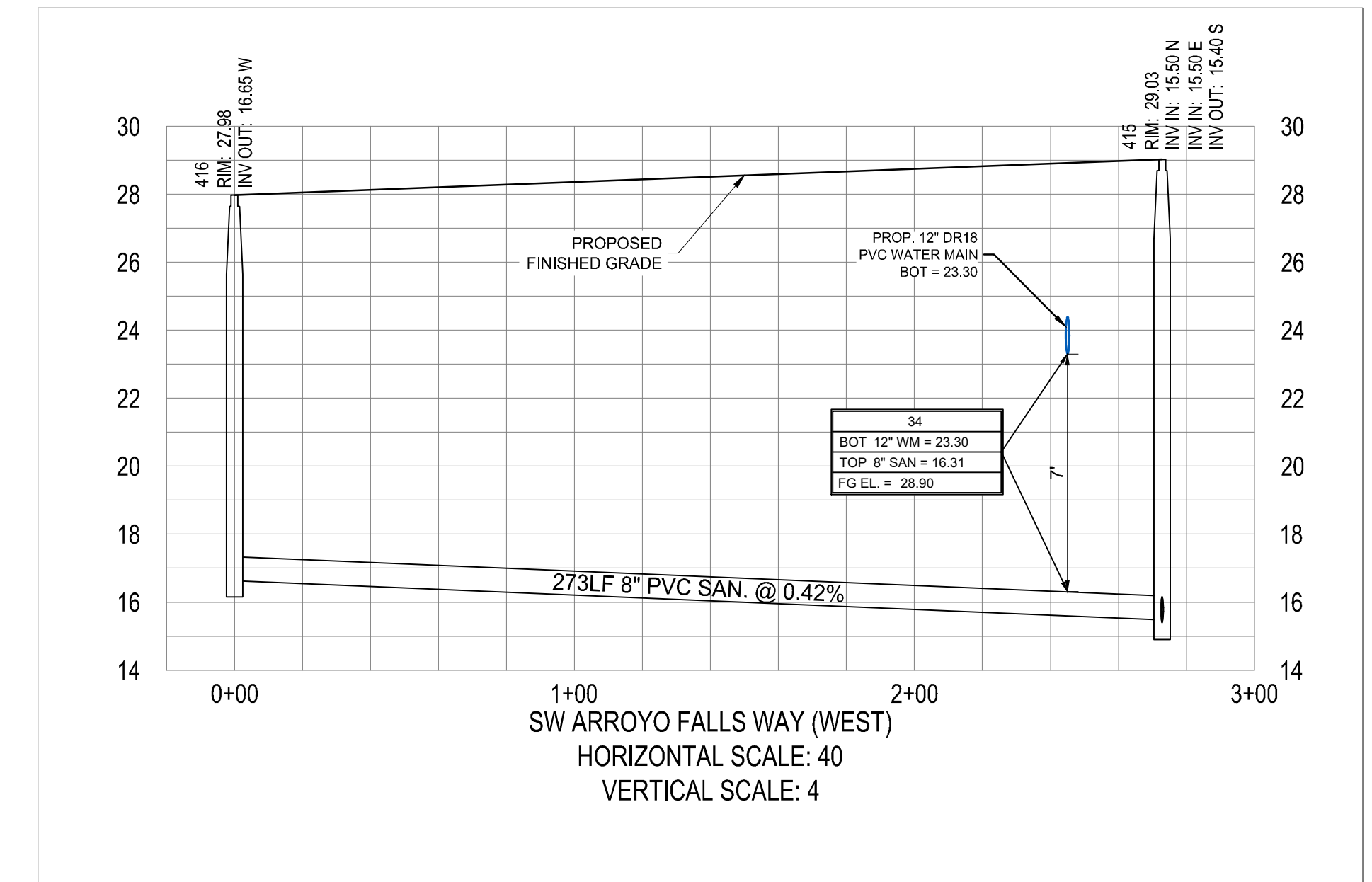
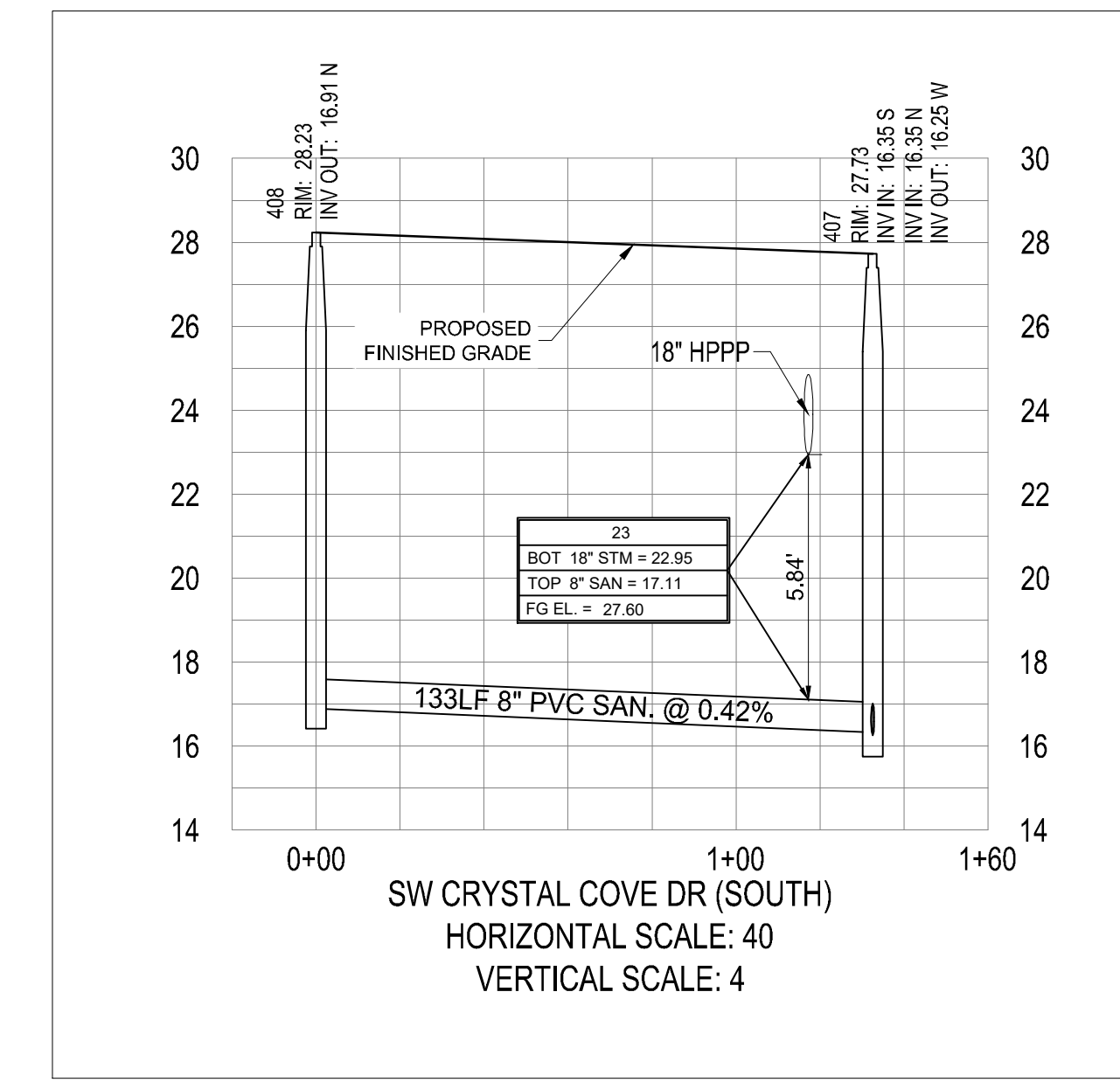
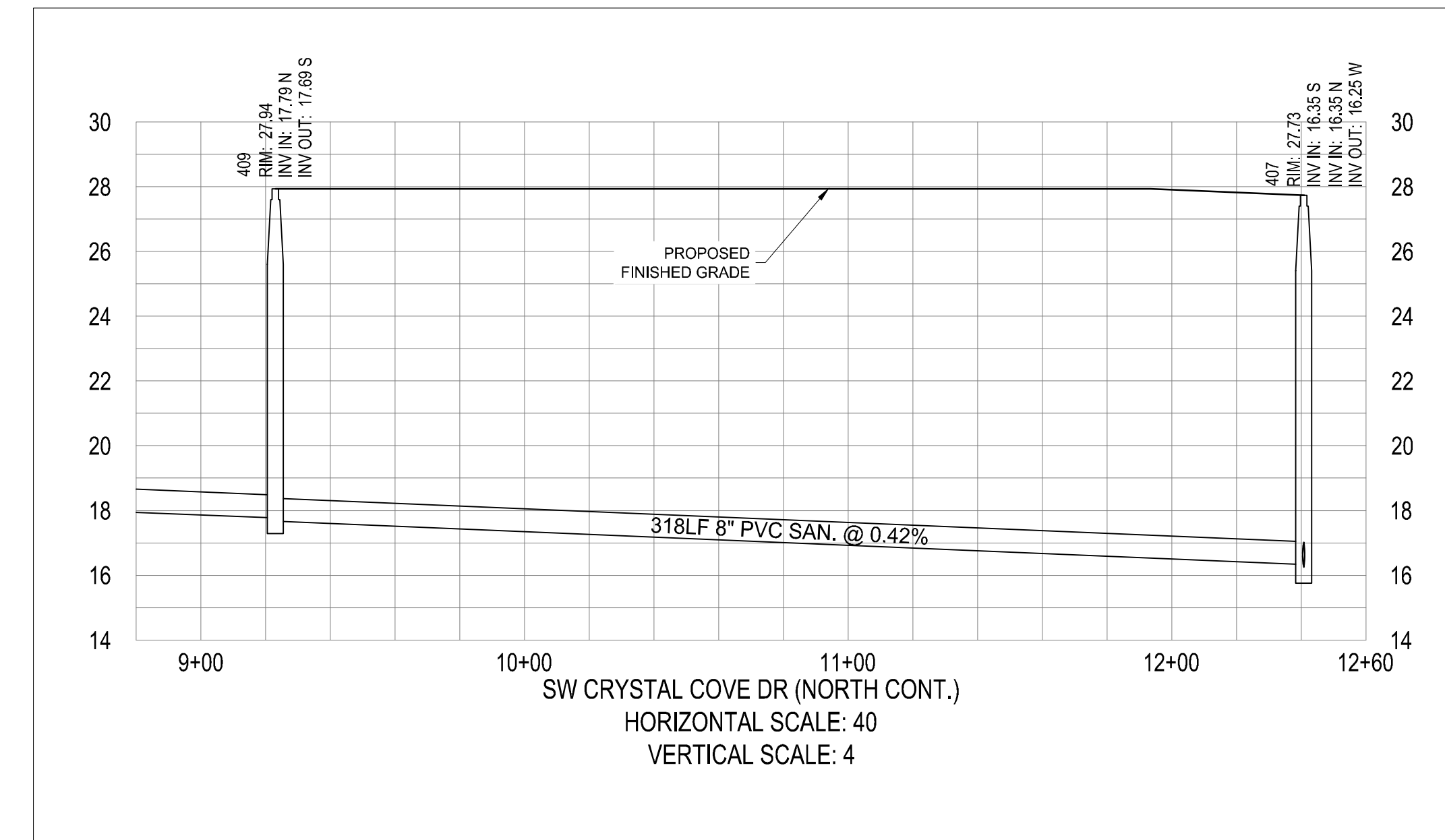
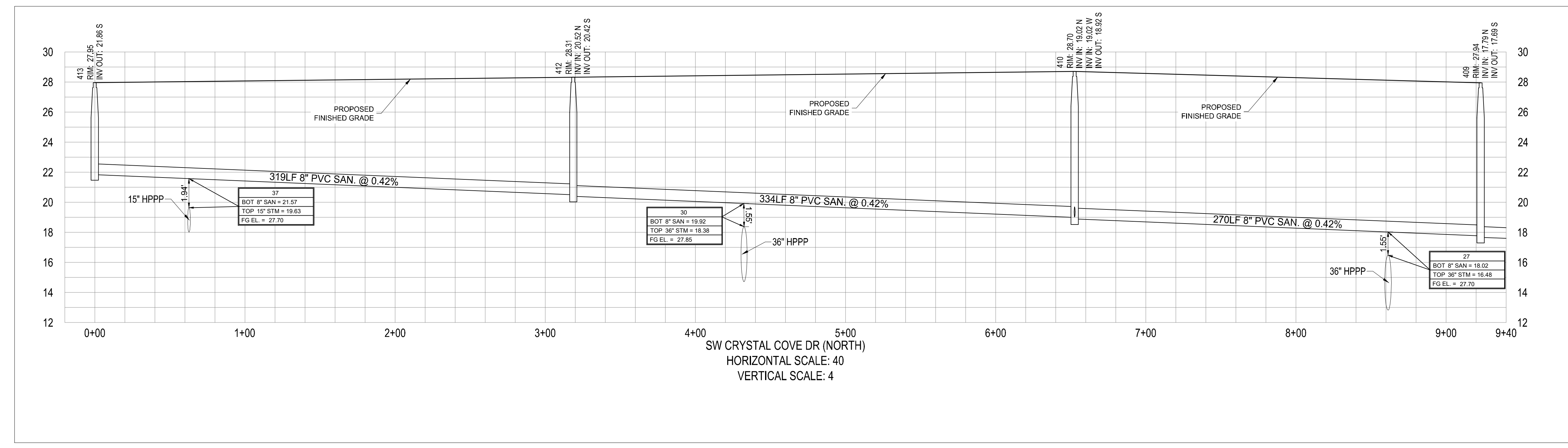


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FLORIDA LICENSE No. 68212  
10/25/21

PROJECT No.: 21-1013  
DRAWN BY: SOC  
CHECKED BY: RR  
DATE: 10/25/2021  
CAD I.D.: 21 - 1013 - PROFILES

SHEET TITLE:  
**PROFILES**

SHEET NUMBER:  
**14**



CITY OF PSL PROJECT No. P21-118  
PSLUSD FILE No. 5268E

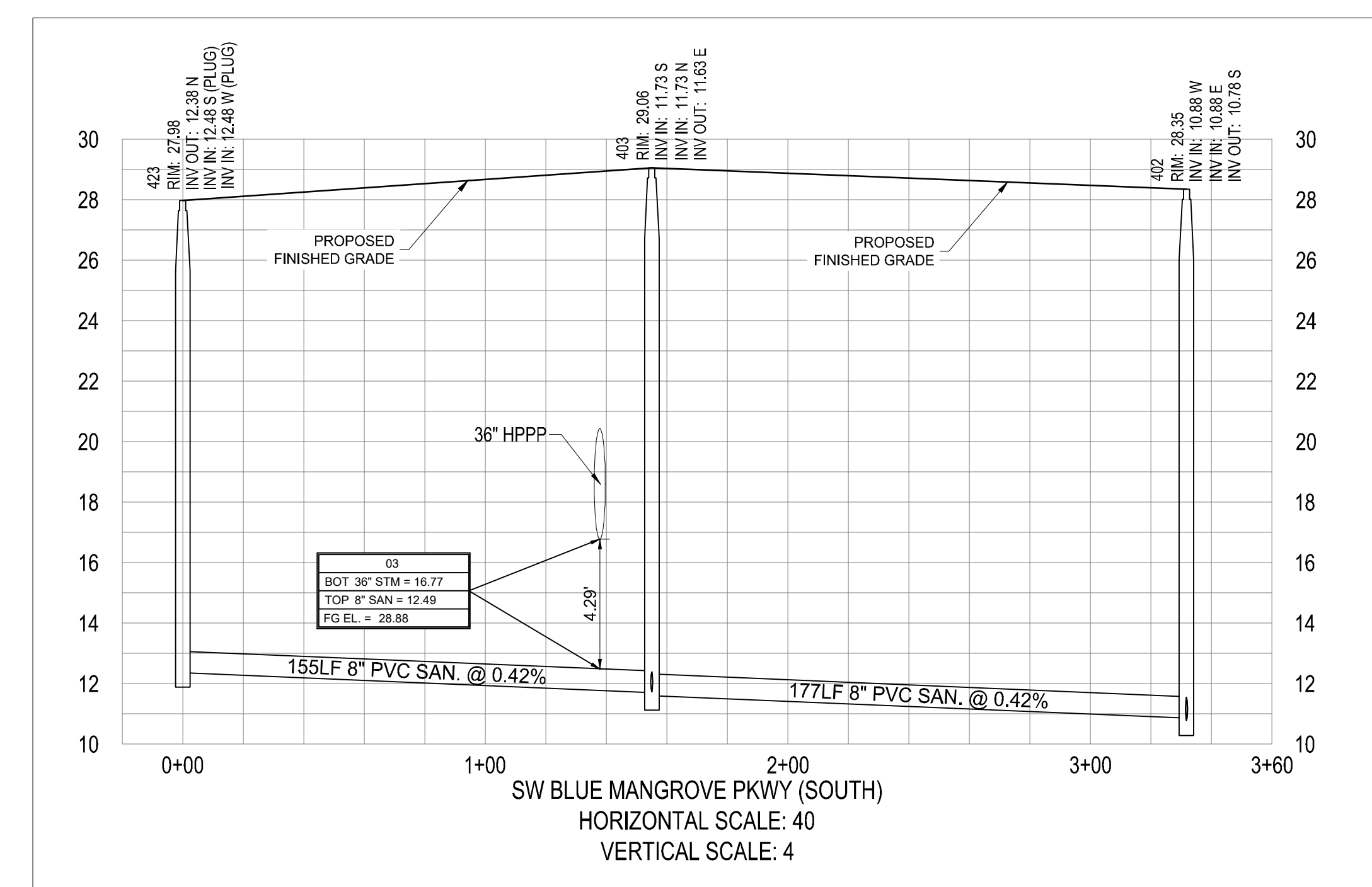
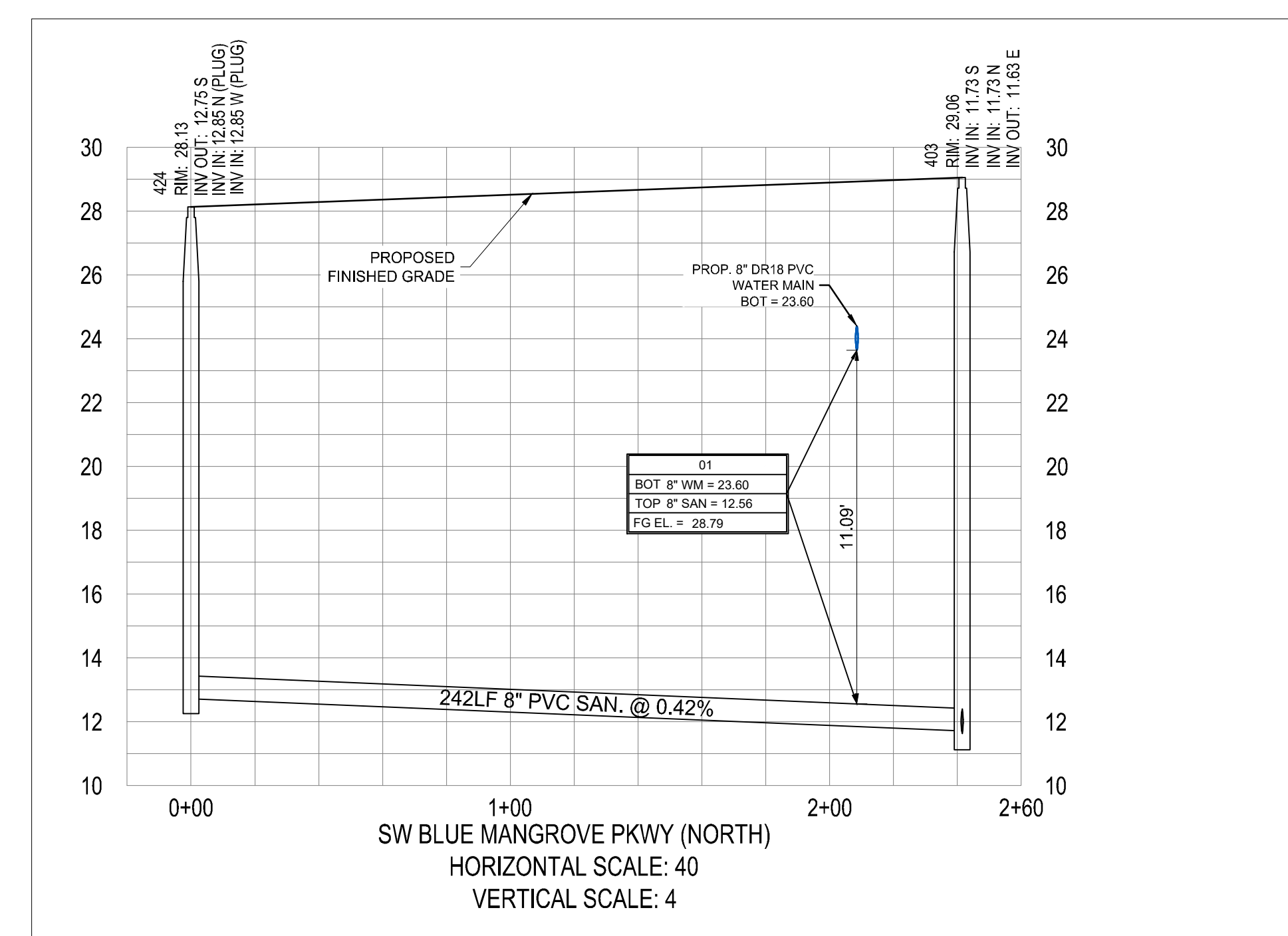
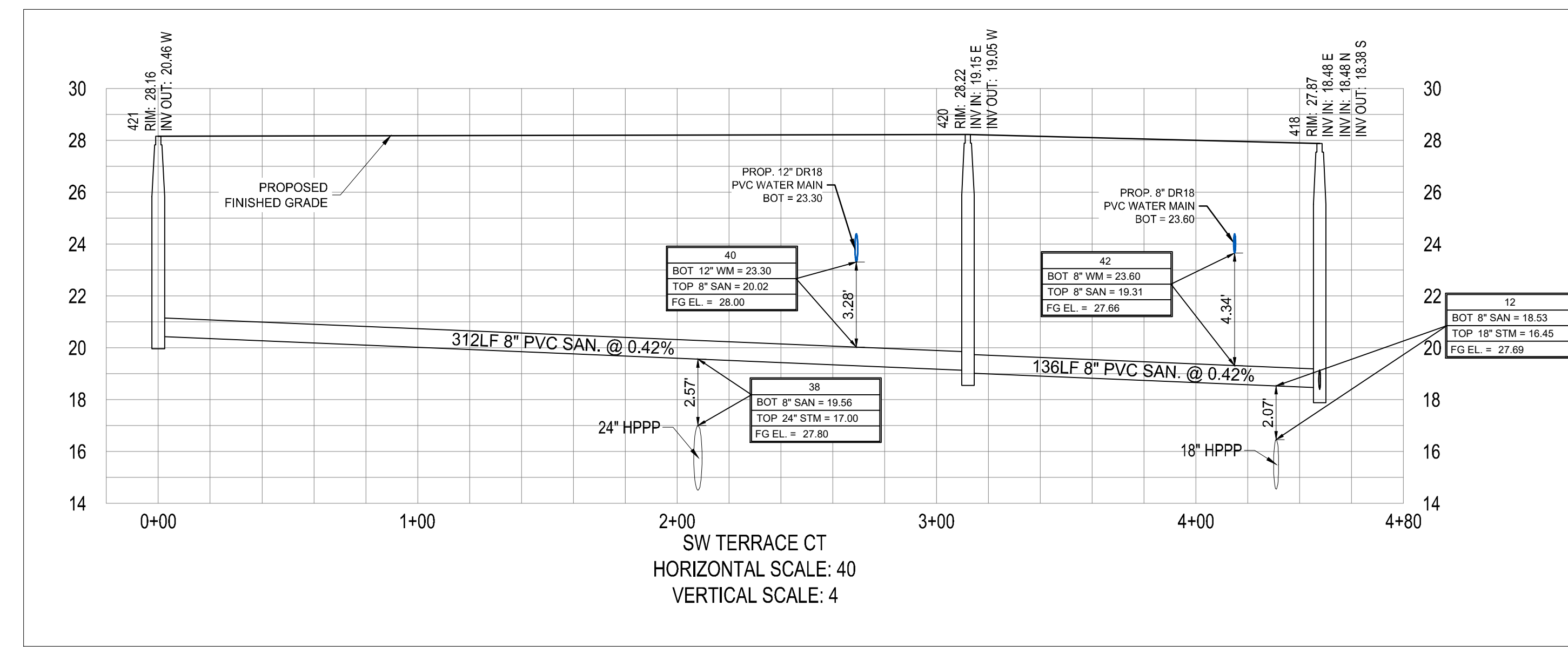
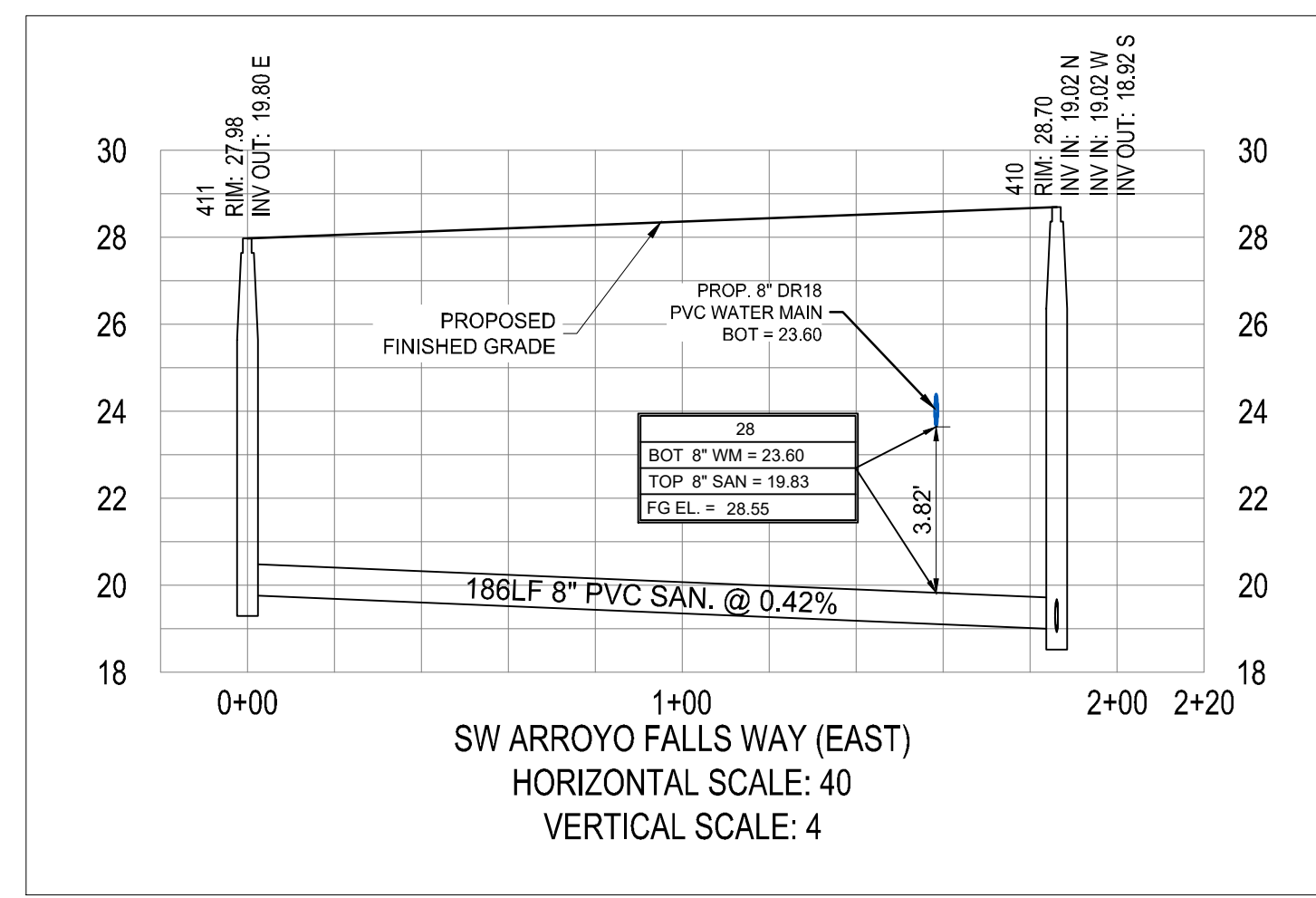




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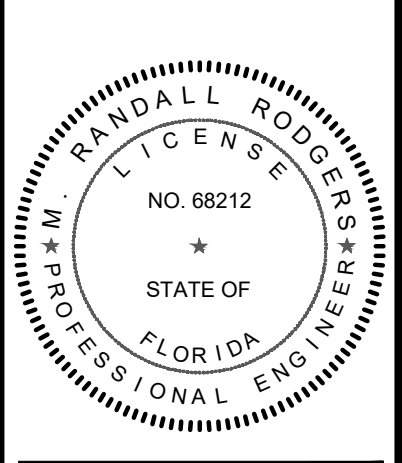
ENGINEERING & SURVEYING, LLC  
1449 NW COMMERCIAL CENTRE DR  
PORT ST. LUCIE, FL 34986  
PHONE: (772) 879-5477  
FIRE C.O.A. # 3222

| REVISIONS: |                   |
|------------|-------------------|
| BY:        | DATE:             |
| SG         | 06/23/21          |
|            | COMMENT:          |
|            | PER SPRC COMMENTS |



PROJECT:  
RIVERLAND PARCEL B  
PLAT FOUR  
CITY OF PORT ST. LUCIE,  
FLORIDA

CLIENT:  
RIVERLAND ASSOCIATES II  
LLP  
CITY OF PORT ST. LUCIE,  
FLORIDA



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FLORIDA LICENSE No. 68212  
10/25/21

PROJECT No.: 21-1013  
DRAWN BY: SOC  
CHECKED BY: RR  
DATE: 10/25/2021  
CAD ID.: 21 - 1013 - PROFILES

SHEET TITLE:  
PROFILES

SHEET NUMBER:  
15



CITY OF PSL PROJECT NO. P21-118  
PSLUSD FILE NO. 5268E