

# SANIBEL FIRE RESCUE STATION #172

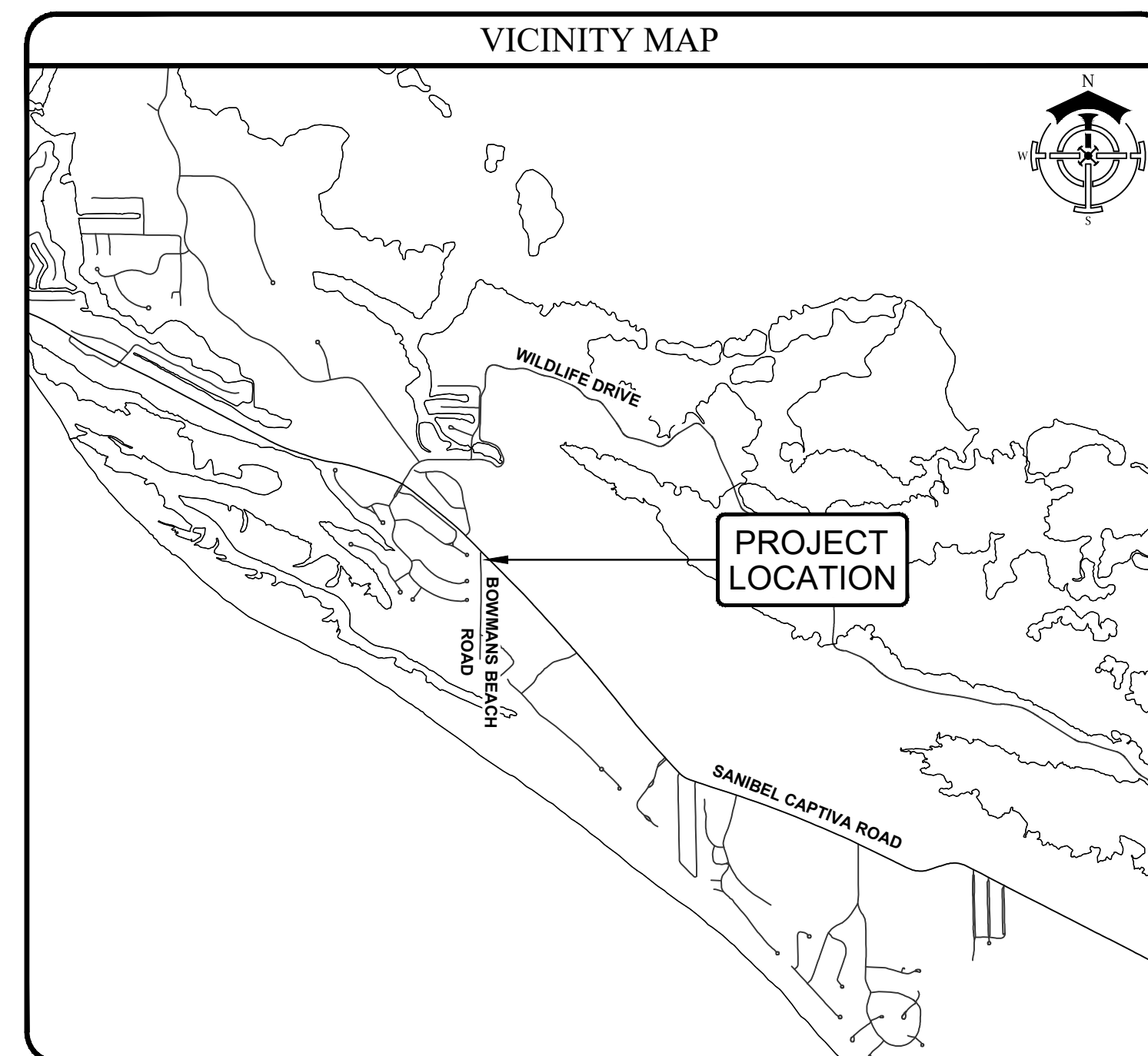
## CONSTRUCTION PLANS

LOCATED IN SECTION 18, TOWNSHIP 46 SOUTH, RANGE 22 EAST  
CITY OF SANIBEL, FLORIDA

PROJECT INFORMATION	
ZONING	F - MID-ISLAND RIDGE
PARCEL ID	18-46-22-T1-00002.0030
ADDRESS	5171 SANIBEL CAPTIVA ROAD, SANIBEL, FL 33957

CONSULTANTS		
<b>ENGINEER</b>	<b>LANDSCAPE ARCHITECT</b>	<b>SURVEY</b>
RESPEC 1505 HENDRY ST. FORT MYERS, FL 33901 (239) 418-0691	COASTAL VISTA DESIGN 2410 PALM RIDGE RD. SANIBEL ISLAND, FL 33957 (239) 558-4610	GALLO GROUP, INC. 5237 SUMMERLIN COMMONS BLVD. FORT MYERS, FL 33907 (833) 425-5364

UTILITY PROVIDERS		
<b>WATER</b>	<b>ELECTRIC</b>	<b>TELEPHONE</b>
THE ISLAND WATER ASSOCIATION, INC. 3651 SANIBEL CAPTIVA RD. SANIBEL, FL 33957 (239) 472-1502	LEE COUNTY ELECTRIC COLLECTIVE P.O. BOX 3455 NORTH FORT MYERS, FL 33918 800-599-2356	CENTURYLINK 2265 W GULF DR. SANIBEL, FL 33957 (239) 472-0660
<b>SEWER</b>	<b>CABLE</b>	<b>FIRE DISTRICT</b>
CITY OF SANIBEL PUBLIC WORKS DEPT. 800 DUNLOP RD. SANIBEL, FL 33957 (239) 472-1008	COMCAST CABLE 12641 CORPORATE LAKES DR. FORT MYERS, FL 33913 (239) 472-9277	SANIBEL FIRE DEPARTMENT 5171 SANIBEL CAPTIVA RD. SANIBEL, FL 33957 (239) 472-5525



SHEET INDEX	
NO.	DESCRIPTION
1	COVER SHEET, VICINITY MAP & INDEX
2	AERIAL & EXISTING CONDITIONS PLAN
3	DEMOLITION PLAN
4	SITE LAYOUT, SIGNING, & MARKING PLAN
5	PAVING, GRADING, & DRAINAGE PLAN
6	UTILITY PLAN
7	TYPICAL SECTIONS
8	PAVING DETAILS
9	ISLAND WATER ASSOCIATION UTILITY DETAILS
10	WATER & SEWER DETAILS
11	EROSION CONTROL PLAN

REVISIONS SUMMARY		
REV.	DATE	DESCRIPTION

CONSTRUCTION INFORMATION

Always call 811 two full business days before you dig.

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1605 Hendry Street  
Fort Myers, FL 33901  
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Florida Registry License No. 33253

ENGINEER OF RECORD:  
LISA M. GORDANO, P.E.  
FLORIDA P.E. NO. 58318

AREA RESERVED FOR AGENCY USE

OWNER / DEVELOPER:  
**SANIBEL FIRE & RESCUE DISTRICT**  
2351 PALM RIDGE ROAD  
SANIBEL, FL 33957  
(239) 472-5625

PROJECT:  
**SANIBEL FIRE  
RESCUE STATION #172**

PLAN REVISIONS	DESCRIPTION
#	
DATE	

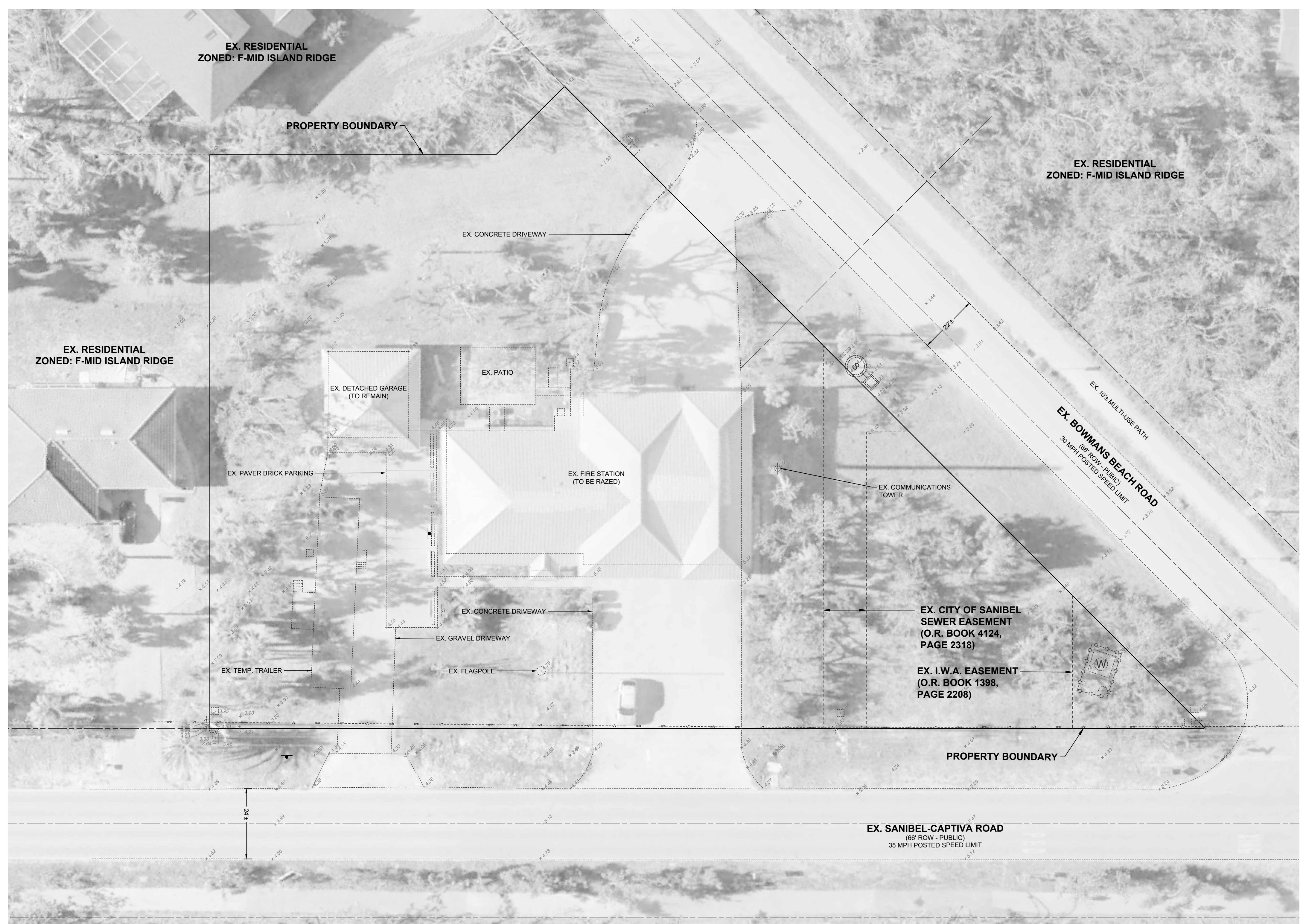
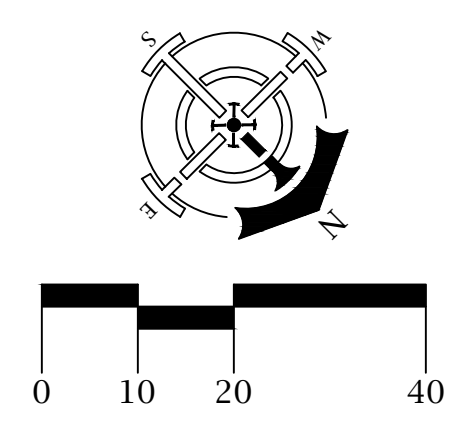
COVER SHEET, VICINITY  
MAP & INDEX

Project Manager: LMG  
Drawn By: BMP  
Project Number: W0419-23003  
County, State: LEE COUNTY, FL

Status:

Sheet Number: 1





**PROJECT DATUM**  
 NAVD  
 DATUM CONVERSION  
 NAVD + 1.17 = NGVD



RESPEC  
 1605 Hendry Street  
 Fort Myers, FL 33901  
 (239) 418-0691  
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**AERIAL & EXISTING  
 CONDITIONS PLAN**

Project Manager: LMG  
 Drawn By: BMP  
 Project Number: W0419-23003  
 County, State: LEE COUNTY, FL

Status:

Sheet Number: 2

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**GENERAL DEVELOPMENT NOTES:**

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO DEWATER IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL PERMITTING REQUIREMENTS.
2. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH CITY OF SANIBEL LDC.
3. THE CONTRACTOR SHALL RETAIN ON THE WORK SITE AT ALL TIMES COPIES OF ALL PERMITS NECESSARY FOR ANY CONSTRUCTION.
4. THE CONTRACTOR SHALL NOTIFY THE OWNER AND CONTACT ALL UTILITY COMPANIES FOR LOCATIONS OF EXISTING UTILITIES IN THE AREA 72 HOURS (MINIMUM) PRIOR TO COMMENCING CONSTRUCTION.
5. THE LOCATION OF EXISTING UTILITIES, SIDEWALKS, PAVEMENT, VEGETATION AND MISCELLANEOUS IMPROVEMENTS ARE APPROXIMATE. THE EXACT FIELD LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD PRIOR TO COMMENCING ANY CONSTRUCTION.
6. THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988 IS THE BENCHMARK DATUM FOR THIS PROJECT.
7. ANY PUBLIC LAND CORNER WITHIN LIMITS OF CONSTRUCTION IS TO BE PROTECTED. ANY LAND CORNER MONUMENT IN DANGER OF BEING DESTROYED MUST BE PROPERLY REFERENCED BY THE CONTRACTOR.
8. EXISTING IMPROVEMENTS SHALL BE RESTORED TO A CONDITION EQUIVALENT TO THAT WHICH EXISTED PRIOR TO COMMENCING CONSTRUCTION, AT NO ADDITIONAL COST TO THE OWNER.
9. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DEVIATION IN PLAN INFORMATION SHALL BE REPORTED TO THE ENGINEER AND OWNER'S REPRESENTATIVE IMMEDIATELY.
10. CONTRACTOR IS REQUIRED TO OBTAIN FROM THE ENGINEER WRITTEN APPROVAL FOR ANY DEVIATIONS FROM THE PLANS AND/OR SPECIFICATIONS.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC AND USAGE OF THE EXISTING STREETS ADJACENT TO THE PROJECT. ALL TRAFFIC MAINTENANCE CONTROL SHALL BE IN ACCORDANCE WITH FLORIDA MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET CONSTRUCTION, MAINTENANCE, AND UTILITY OPERATIONS. TRAFFIC CONTROL OPERATION PROCEDURES SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL PRIOR TO THE BEGINNING OF CONSTRUCTION.
12. UNDERGROUND CONTRACTOR SHALL MINIMIZE THE WORK AREA AND WIDTH OF ALL TRENCHES TO AVOID DISTURBANCES OF NATURAL VEGETATION. SPOIL FROM TRENCHES SHALL BE PLACED ONLY ON PREVIOUSLY CLEARED AREAS OR AS DIRECTED BY THE OWNER. CONTRACTOR SHALL NOT REMOVE OR DISTURB ANY TREES AND/OR SHRUBS WITHOUT PRIOR APPROVAL OF THE OWNER.
13. THE APPROVAL OF THESE CONSTRUCTION PLANS DOES NOT EXEMPT THE CONTRACTOR FROM OBTAINING THE NECESSARY BUILDING PERMITS OR UTILITY PERMITS.

**SIGNING AND MARKING NOTES:**

1. ALL SIGNING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE F.D.O.T. STANDARDS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, THE F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS, LATEST EDITION, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND PUBLISHED STANDARDS.
2. UNLESS OTHERWISE SPECIFIED, PAVEMENT MARKINGS SHALL BE PERMANENT REFLECTIVE TRAFFIC PAINT WITH GLASS BEADS IN ACCORDANCE WITH F.D.O.T. STANDARD SPECIFICATIONS SECTION 710.
3. ALL STOP SIGN LOCATIONS SHALL INCLUDE A 24" PAINTED WHITE STOP BAR UNLESS NOTED OTHERWISE.
4. ALL SIGNING, PAVEMENT MARKINGS, ETC. ARE TO BE INCLUDED IN THE LUMP SUM PRICE FOR SIGNING AND MARKING.
5. THE CONTRACTOR SHALL COMPLY WITH THE "STATE OF FLORIDA MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE, AND UTILITY OPERATIONS" AND WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

**PROPOSED LAND USE SUMMARY**

CATEGORY	AREA	PERCENTAGE
PROPOSED BUILDING	0.14 AC.	12.2%
EX. BUILDING TO REMAIN	0.02 AC.	1.7%
PAVEMENT / SIDEWALK	0.15 AC.	13.0%
PERMEABLE SURFACE	0.15 AC.	13.0%
LANDSCAPED/GRASS AREA	0.69 AC.	60.1%
TOTAL PROPERTY AREA	1.15 AC.	100%
IMPERMEABLE COVERAGE	0.39 AC.	33.9%*
DEVELOPED AREA	0.46 AC.	40.0%*

\*PER LDC CHAPTER 126, ARTICLE VII, DIVISION 8.126-414(g,h). MAXIMUM IMPERMEABLE COVERAGE 30%. MAXIMUM DEVELOPED AREA 35%. DEVIATIONS SHALL BE PROVIDED.

**BUILDING DESIGN STANDARDS**

DESIGN STANDARD	REQUIRED	PROVIDED
FRONT YARD SETBACK (SANIBEL CAPTIVA RD.)	75'	81.8'
FRONT YARD SETBACK (BOWMANS BEACH RD.)	75'	53.9"
SIDE YARD SETBACK	10'	84.6"
REAR YARD SETBACK	10'	79.7'
SETBACK FROM OPEN BODIES OF WATER	10'	N/A
MAX. BUILDING HEIGHT (ABOVE PRE-DEVELOPMENT GRADE)	35'	39'-6"
MAX. BUILDING HEIGHT (ABOVE MEAN SEA LEVEL)	45' NAVD	44'-10" NAVD**

\*\*DEVIATIONS SHALL BE PROVIDED.  
\*\*THIS VALUE ASSUMES A PRE-DEVELOPMENT GRADE OF 5.40' NAVD

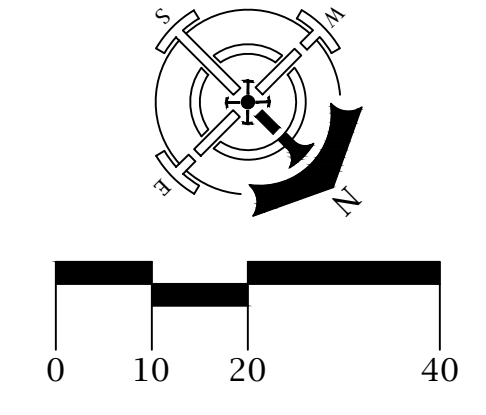
**PARKING SUMMARY**

USE	RATIO	SPACES REQUIRED	SPACES PROVIDED
ESSENTIAL SERVICES FACILITIES	1 SPACE PER EMPLOYEE ON THE LARGEST SHIFT CHANGE	6	6
ADMINISTRATIVE SPACES	2 SPACES REQUIRED FOR PUBLIC VISITORS	2	3
TOTAL		8	9(1)

NOTE:  
1. \*(#) REPRESENTS THE NUMBER OF HANDICAP SPACES INCLUDED IN THE TOTAL SPACES.

**EXISTING LAND USE SUMMARY**

CATEGORY	AREA	PERCENTAGE
BUILDINGS	0.14 AC.	12.2%
PAVEMENT / SIDEWALK	0.14 AC.	12.2%
PERMEABLE SURFACE	0.09 AC.	7.8%
LANDSCAPED/GRASS AREA	0.78 AC.	67.8%
TOTAL PROPERTY AREA	1.15 AC.	100%
IMPERMEABLE COVERAGE	0.33 AC.	28.5%
DEVELOPED AREA	0.37 AC.	32.2%



RESPEC  
1605 Hendry Street  
Fort Myers, FL 33901  
(239) 418-0691  
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FLORIDA P.E. NO. 58318

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(239) 472-5625

PROJECT:  
**SANIBEL FIRE  
RESCUE STATION #172**

PLAN REVISIONS

#	DATE	DESCRIPTION

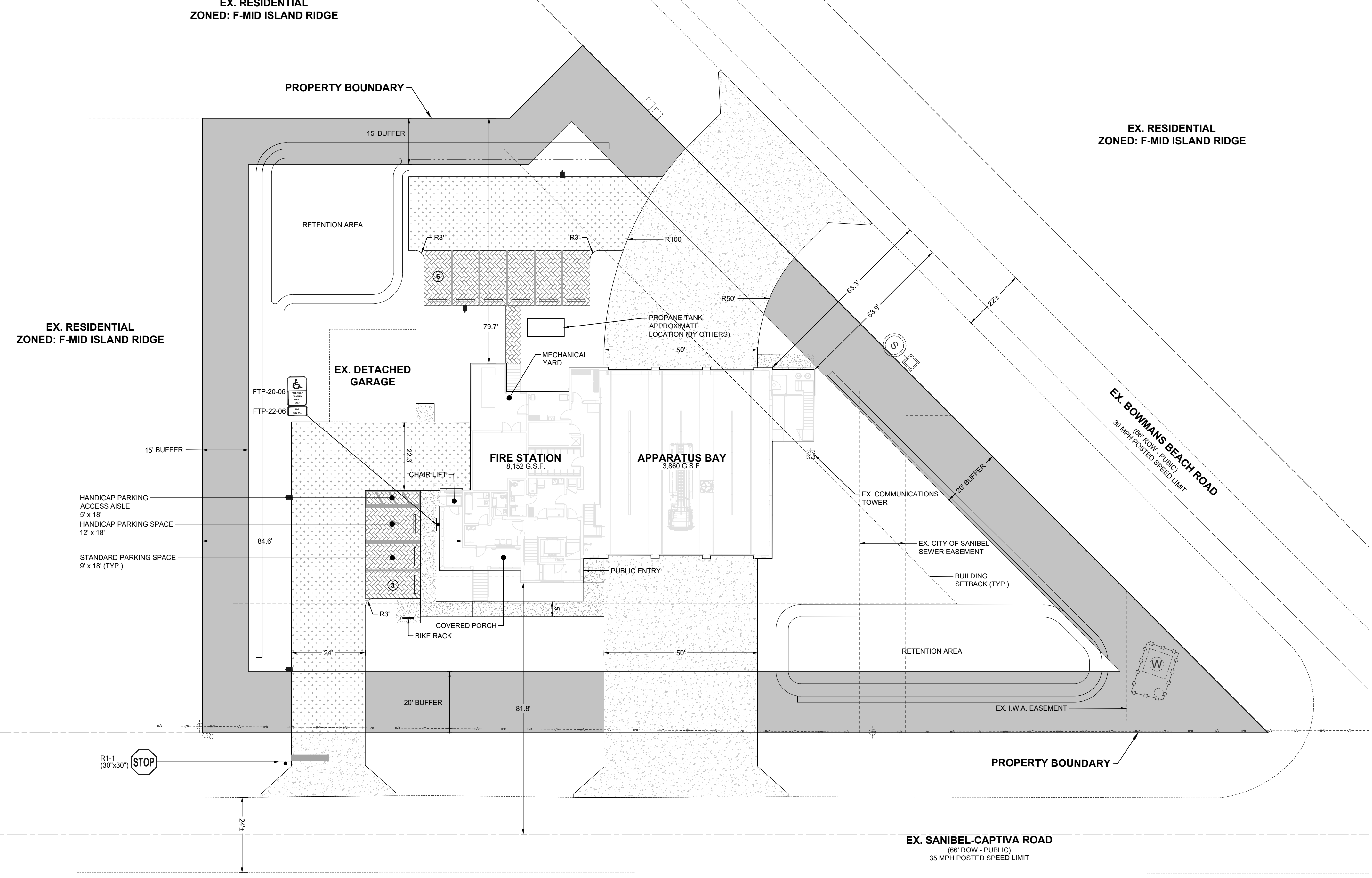
**SITE LAYOUT, SIGNING, & MARKING PLAN**

Project Manager: LMG  
Drawn By: BMP  
Project Number: W0419.23003  
County, State: LEE COUNTY, FL

Status: \_\_\_\_\_  
Sheet Number: 4

EX. RESIDENTIAL  
ZONED: F-MID ISLAND RIDGE

EX. RESIDENTIAL  
ZONED: F-MID ISLAND RIDGE



**LEGEND**

[Symbol]	CONCRETE PAVEMENT
[Symbol]	4" CONCRETE SIDEWALK
[Symbol]	PERVIOUS PAVER BRICK
[Symbol]	PERMEABLE SURFACE
[Symbol]	LANDSCAPE BUFFER
[Symbol]	LIGHT POLE
[Symbol]	PARKING COUNT

**PROJECT DATUM**  
NAVD  
DATUM CONVERSION  
NAVD + 1.17 = NGVD



**GENERAL DRAINAGE NOTES:**

1. THE LENGTH OF ALL STORM DRAIN PIPES SHOWN ARE APPROXIMATE AND ARE MEASURED FROM THE INSIDE FACE OF STRUCTURE TO THE INSIDE FACE OF THE NEXT STRUCTURE.
2. EXISTING OFF-SITE DRAINAGE PATTERNS SHALL BE MAINTAINED DURING THE COURSE OF CONSTRUCTION.
3. THE LOCATION OF THE DRAINAGE STRUCTURES SHOWN ON THE PLANS MAY BE FIELD ADJUSTED TO PRESERVE ANY EXISTING VEGETATION, AS APPROVED BY THE ENGINEER.
4. THE CONTRACTOR SHALL ADJUST ALL PROPOSED ELEVATIONS TO MEET THE EXISTING GRADES AS NEEDED.
5. ALL STORM DRAINAGE PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP), UNLESS OTHERWISE NOTED.
6. PROPOSED GRADES IN OPEN SPACE AREAS ARE TOP OF SOI.
7. THE SUBJECT PARCEL IS LOCATED IN FLOOD ZONE 'AE', ELEVATION 9.0 BASED ON FLOOD INSURANCE RATE COMMUNITY PANEL 12071C0509G, NOVEMBER 17, 2022.
8. THERE ARE NO KNOWN IMPACTS TO SURFACE GROUND WATER RESULTING FROM THE PROJECT.
9. CONTRACTOR TO USE 8" CONCRETE IN FRONT OF DUMPSTER ENCLOSURE.
10. CEMENT STABILIZED SAND, 57 STONE OR SIMILAR BEDDING REQUIRED FOR ALL STORM DRAIN INLET STRUCTURES AND JUNCTION BOXES.
11. ALL ELEVATIONS PROVIDED ARE BASED IN NAVD DATUM.
12. OPERATION AND OWNERSHIP OF THE MASTER SURFACE WATER MANAGEMENT SYSTEM SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER.
13. THE DEVELOPMENT OF THE PROPERTY AS SHOWN WILL NOT HAVE ADVERSE HYDROLOGICAL EFFECTS ON ADJACENT PROPERTIES.

**OPERATIONS AND MAINTENANCE NOTES:**

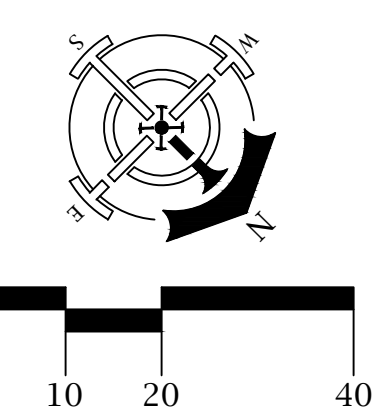
1. THE PROJECT IS BEING DEVELOPED UNDER UNIFIED CONTROL BY THE PROPERTY OWNER.
2. THE OWNER WILL BE RESPONSIBLE FOR OPERATIONS AND MAINTENANCE OF THE SURFACE WATER MANAGEMENT SYSTEM. THIS SHALL INCLUDE, BUT NOT LIMITED TO:
  - ROUTINE INSPECTION
  - STABILIZATION OF SIDE SLOPES, RETENTION AREA BOTTOMS, AND ANY BARE SPOTS OR AREAS OF WASHOUT
  - REMOVAL OF BUILT UP SEDIMENTS FROM DETENTION AREAS, STRUCTURES, OR PIPES
  - SYSTEM REPAIRS AS NECESSARY
  - LANDSCAPE MAINTENANCE AND MOWING
3. ALL PROHIBITED EXOTIC VEGETATION AS DEFINED BY THE CITY OF SANIBEL SHALL BE REMOVED FROM THE SITE AND SHALL BE MAINTAINED FREE OF EXOTICS IN PERPETUITY. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR SUBSEQUENT ANNUAL REMOVAL OF EXOTIC VEGETATION.

**DRAINAGE STRUCTURE TABLE**

(S-1) 15" MES FDOT #430-021 INV. (15") = 2.39	(S-2) 15" MES FDOT #430-021 INV. (15") = 2.39	(S-3) 15" MES FDOT #430-021 INV. (15") = 2.50
(S-4) 15" MES FDOT #430-021 INV. (15") = 2.50	(S-5) 15" MES FDOT #430-021 INV. (15") = 1.23	(S-6) 15" MES FDOT #430-021 INV. (15") = 1.23

**LEGEND**

- CONCRETE PAVEMENT
- 4" CONCRETE SIDEWALK
- PERMEABLE SURFACE
- PERVIOUS PAVER BRICK
- PROPOSED ELEVATIONS
- EXISTING ELEVATIONS
- SURFACE WATER FLOW DIRECTION



RESPEC  
1605 Hendry Street  
Fort Myers, FL 33901  
(239) 418-0691  
Florida Registry License No. 33253

ENGINEER OF RECORD:  
LISA M. GORDANO, P.E.  
FLORIDA P.E. NO. 59318

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**SANIBEL FIRE & RESCUE DISTRICT**  
2351 PALM RIDGE ROAD  
SANIBEL, FL 33957  
(239) 472-5625

PROJECT:  
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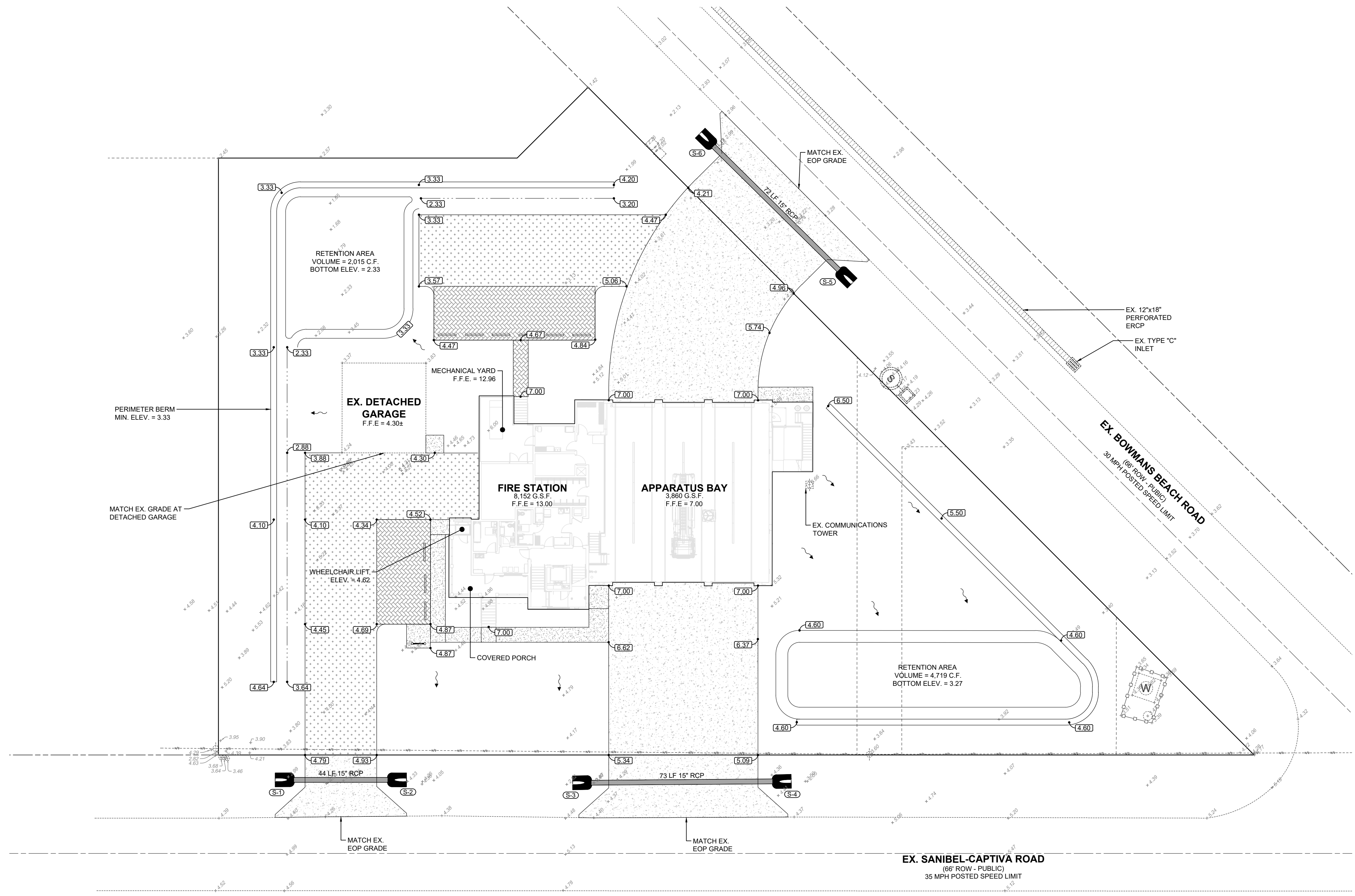
PLAN REVISIONS	DESCRIPTION
#	DATE

**PAVING, GRADING, & DRAINAGE PLAN**

Project Manager: LMG  
Drawn By: BMP  
Project Number: W0419.23003  
County, State: LEE COUNTY, FL

Status:

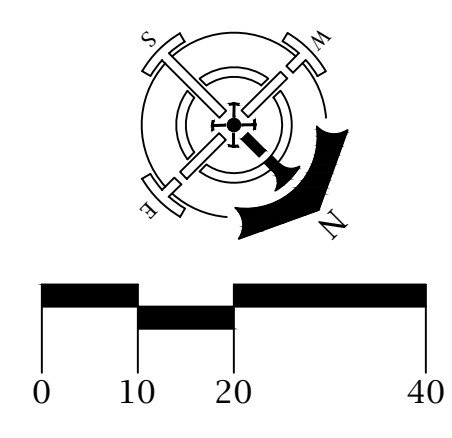
Sheet Number: 5



**PROJECT DATUM**  
NAVD  
DATUM CONVERSION  
NAVD + 1.17 = NGVD

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RESPEC  
1605 Hendry Street  
Fort Myers, FL 33901  
(239) 418-0691  
Florida Registry License No. 33253

ENGINEER OF RECORD:  
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PLAN REVISIONS	DESCRIPTION
#	DATE

UTILITY PLAN

Project Manager: LMG  
Drawn By: BMP  
Project Number: W0419.23003  
County, State: LEE COUNTY, FL

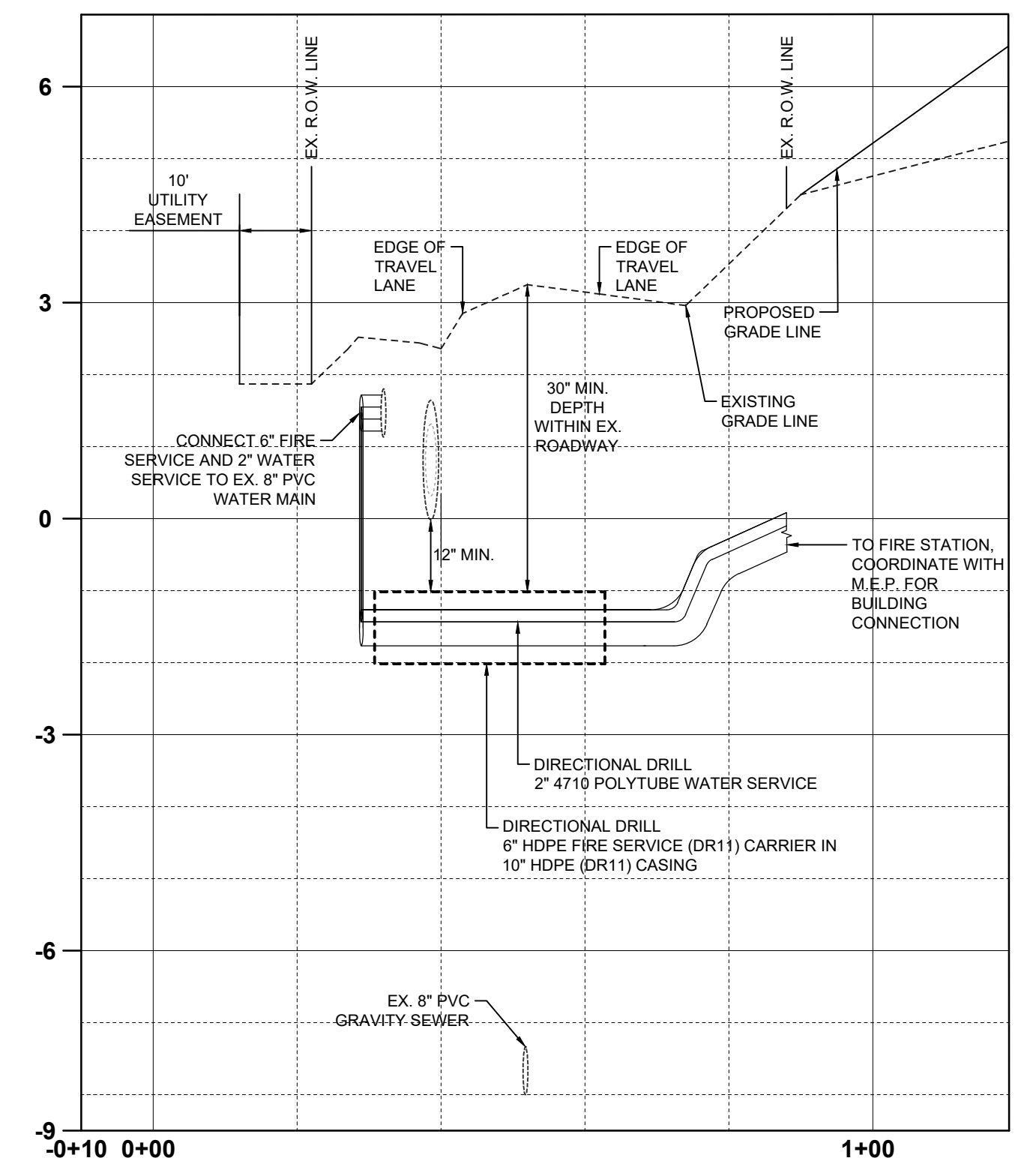
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Sheet Number: 6

**FIRE FLOW REQUIREMENTS:**  
10,350 S.F. FIRE FLOW AREA  
CONSTRUCTION TYPE: TYPE II-111  
BUNK AREAS: NFPA 13R SYSTEM  
FROM NFPA1 TABLE 18.4.5.2.1, THE REQUIRED FIRE FLOW WITH QUICK RESPONSE SPRINKLERS IS 600 GPM

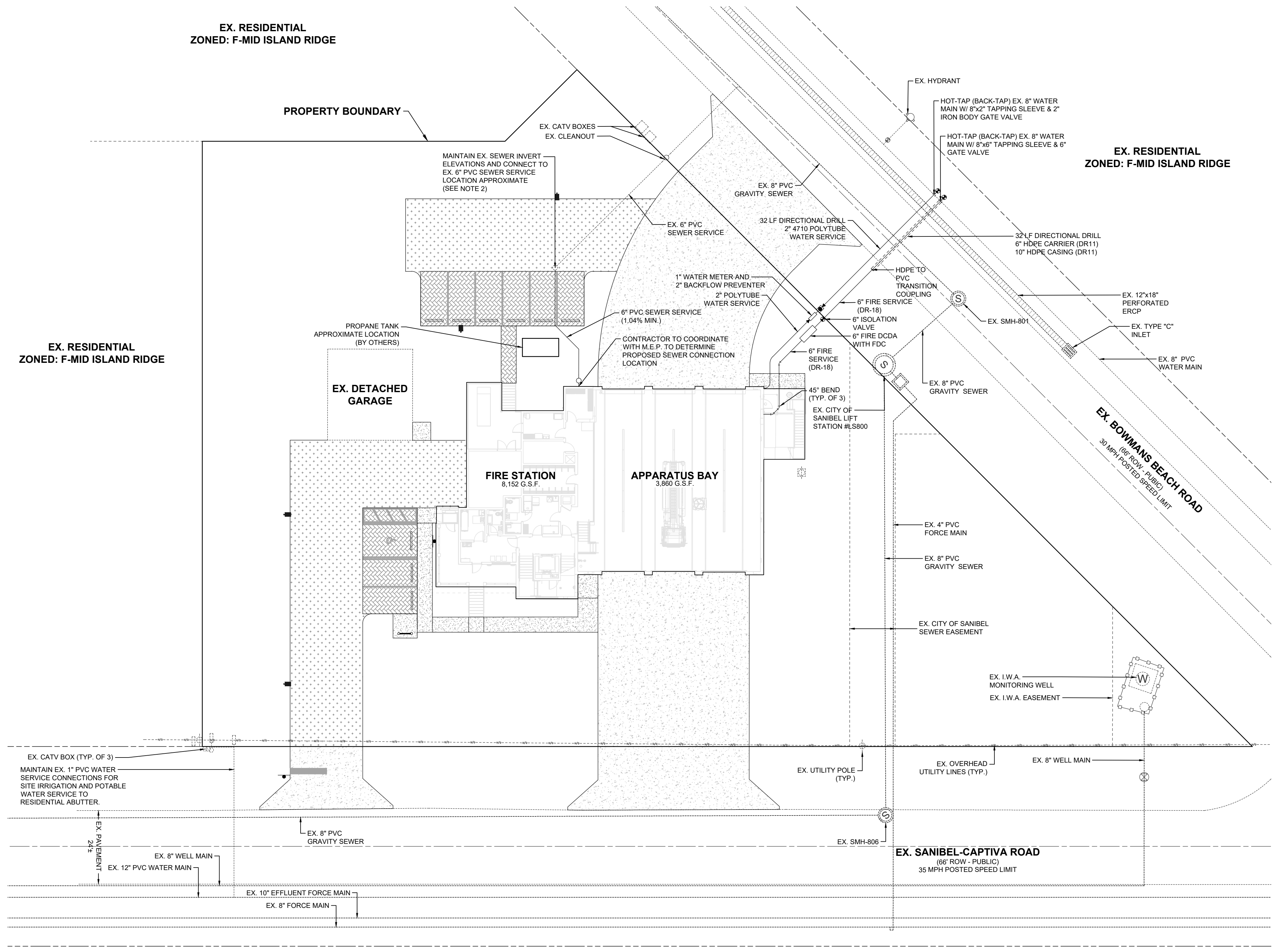
**FIRE FLOW TEST RESULTS:**  
FIRE FLOW AVAILABLE IS 2,333 GPM AT 20 PSI BASED ON THE FIRE FLOW TEST PERFORMED BY SANIBEL FIRE DEPARTMENT ON MAY 3, 2023.

- GENERAL UTILITY NOTES:**
- ALL UTILITY CONSTRUCTION TO BE IN ACCORDANCE WITH CITY OF SANIBEL REGULATIONS AND ISLAND WATER ASSOCIATION TECHNICAL SPECIFICATIONS.
  - CONTRACTOR TO VERIFY THE SIZE AND LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION.
  - LOCATIONS OF PROPOSED UTILITY LINES ARE SUBJECT TO MODIFICATIONS TO PRESERVE ANY EXISTING VEGETATION AS DETERMINED BY THE ENGINEER.
  - CONTRACTOR TO PROVIDE UTILITY RECORD DRAWINGS TO OWNER AND ENGINEER PRIOR TO FINAL PAYMENT REQUEST.
  - CONTRACTOR SHALL NOTIFY ALL UTILITY PROVIDERS AT LEAST 48 HOURS PRIOR TO THE START OF UNDERGROUND CONSTRUCTION. THE CONTRACTOR SHALL DETERMINE IF UTILITIES OTHER THAN THOSE SHOWN IN THE PLANS EXIST.
  - CONTRACTOR TO EXERCISE CARE TO PROTECT THE ROOTS OF TREES TO REMAIN. WITH THE BRANCH SPREAD OF SUCH TREES, PERFORM ALL TRENCHING BY HAND. OPEN THE TRENCH ONLY WHEN UTILITIES CAN BE INSTALLED IMMEDIATELY. PRUNE INJURED ROOTS CLEANLY AND BACKFILL AS SOON AS POSSIBLE.
  - THE CONTRACTOR IS REQUIRED TO ADJUST ALL EXISTING AND PROPOSED VALVE BOXES, MANHOLE RIMS, GRATES, ETC. AS REQUIRED TO MATCH THE PROPOSED GRADES.
  - CONTRACTOR TO VERIFY INVERT ELEVATION AND LOCATION OF EXISTING SANITARY SEWER MANHOLES, CLEANOUTS, OR FORCE MAINS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
  - ALL SANITARY SEWER SERVICES TO BE 6" IN DIAMETER, UNLESS OTHERWISE NOTED.



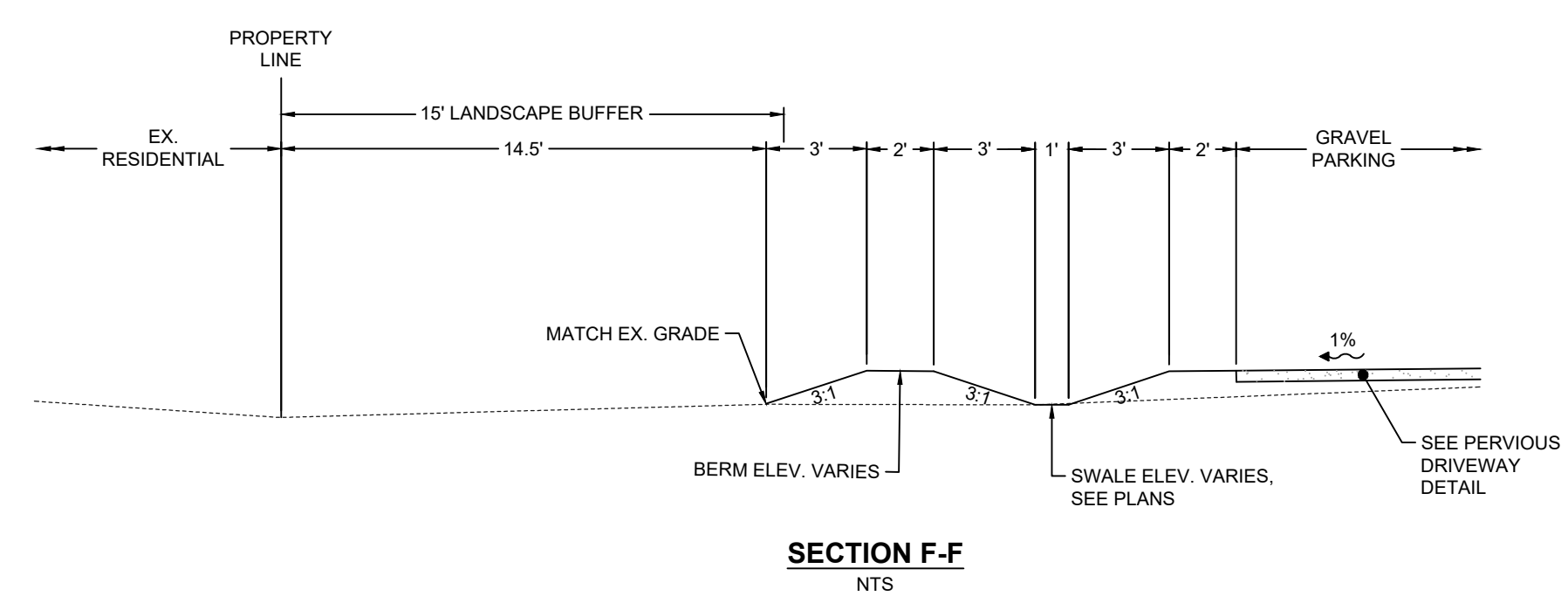
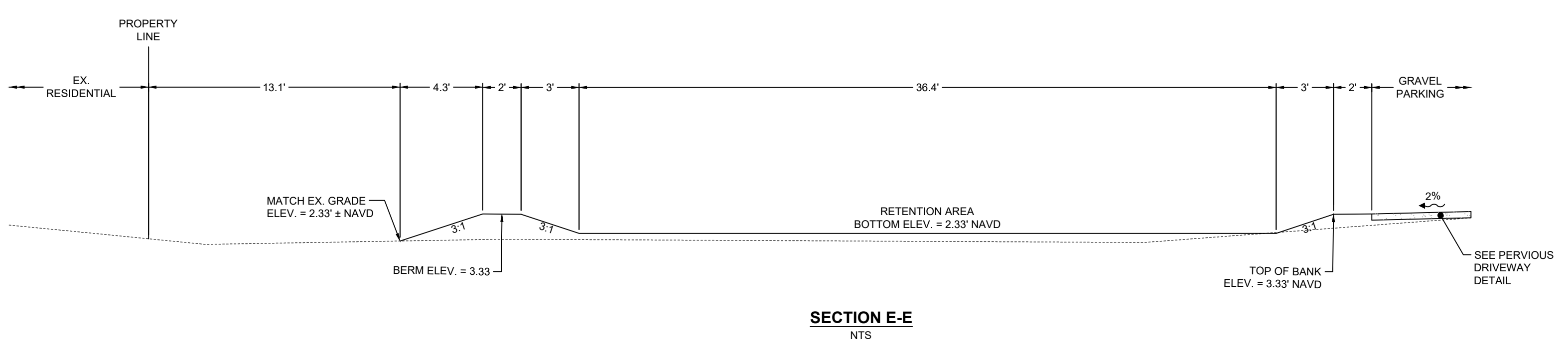
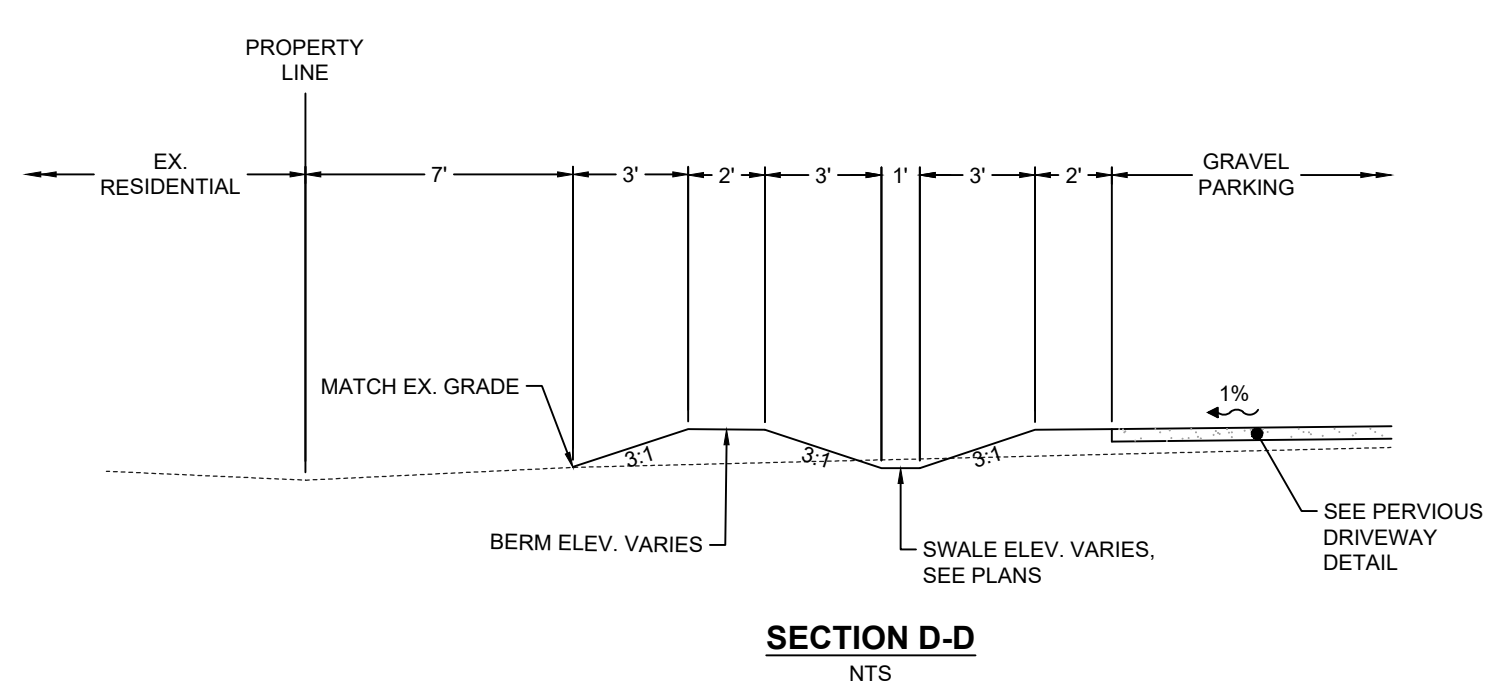
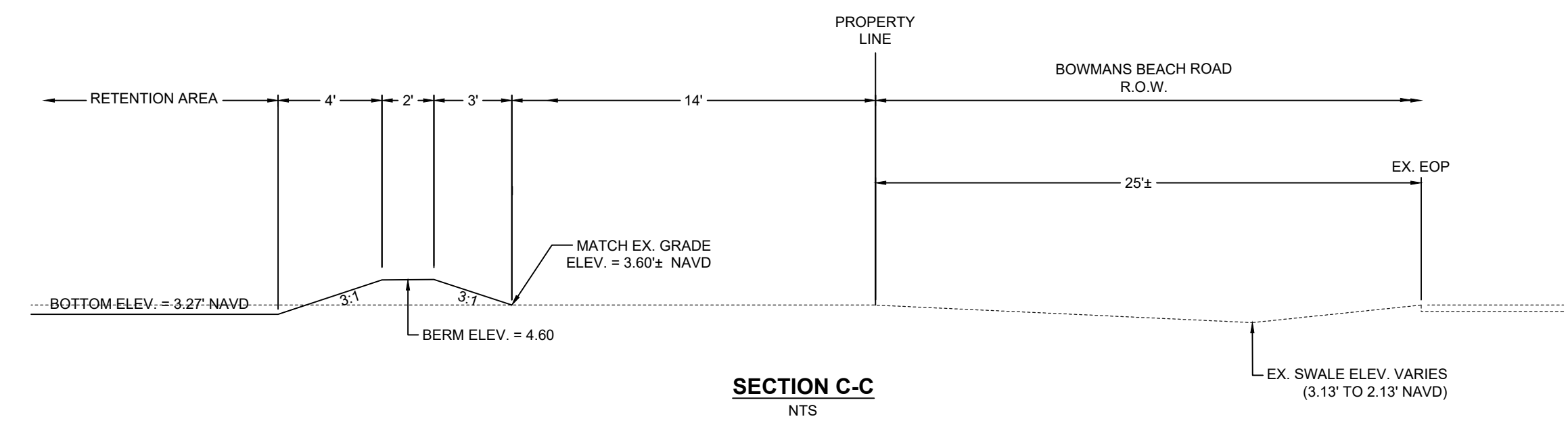
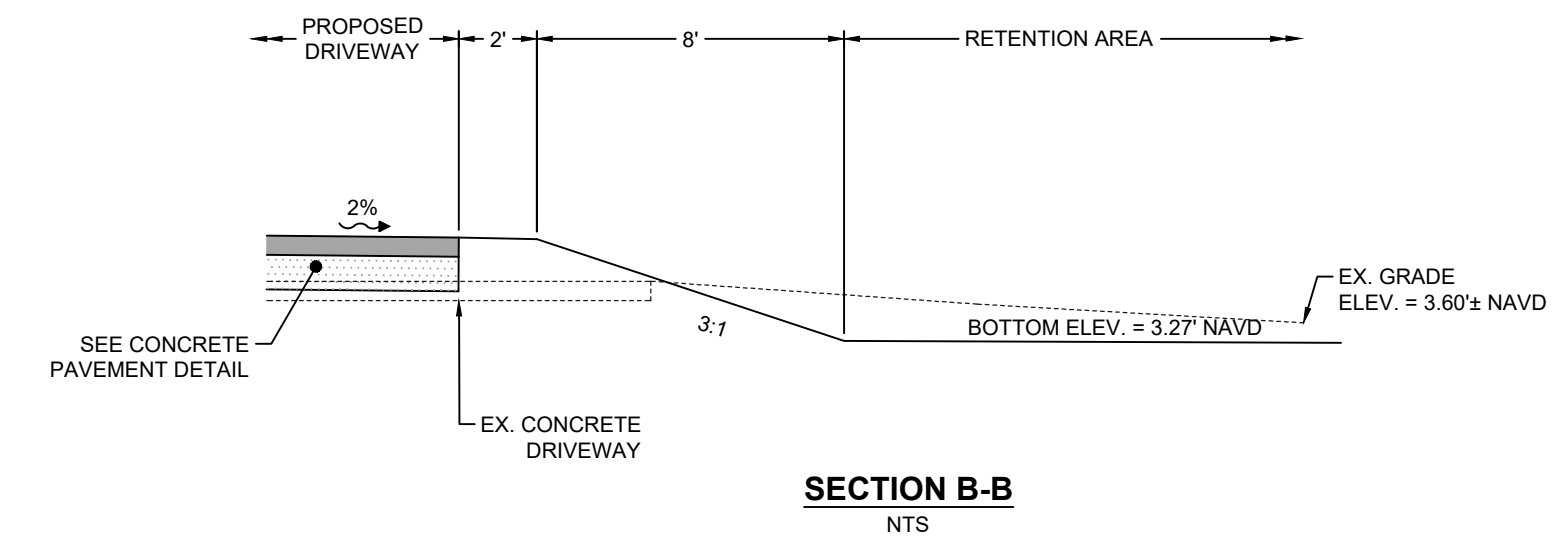
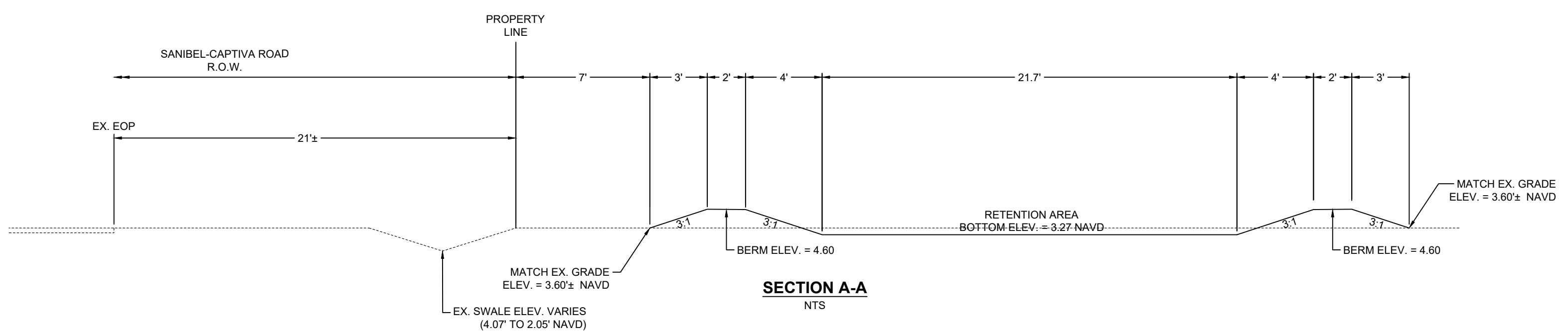
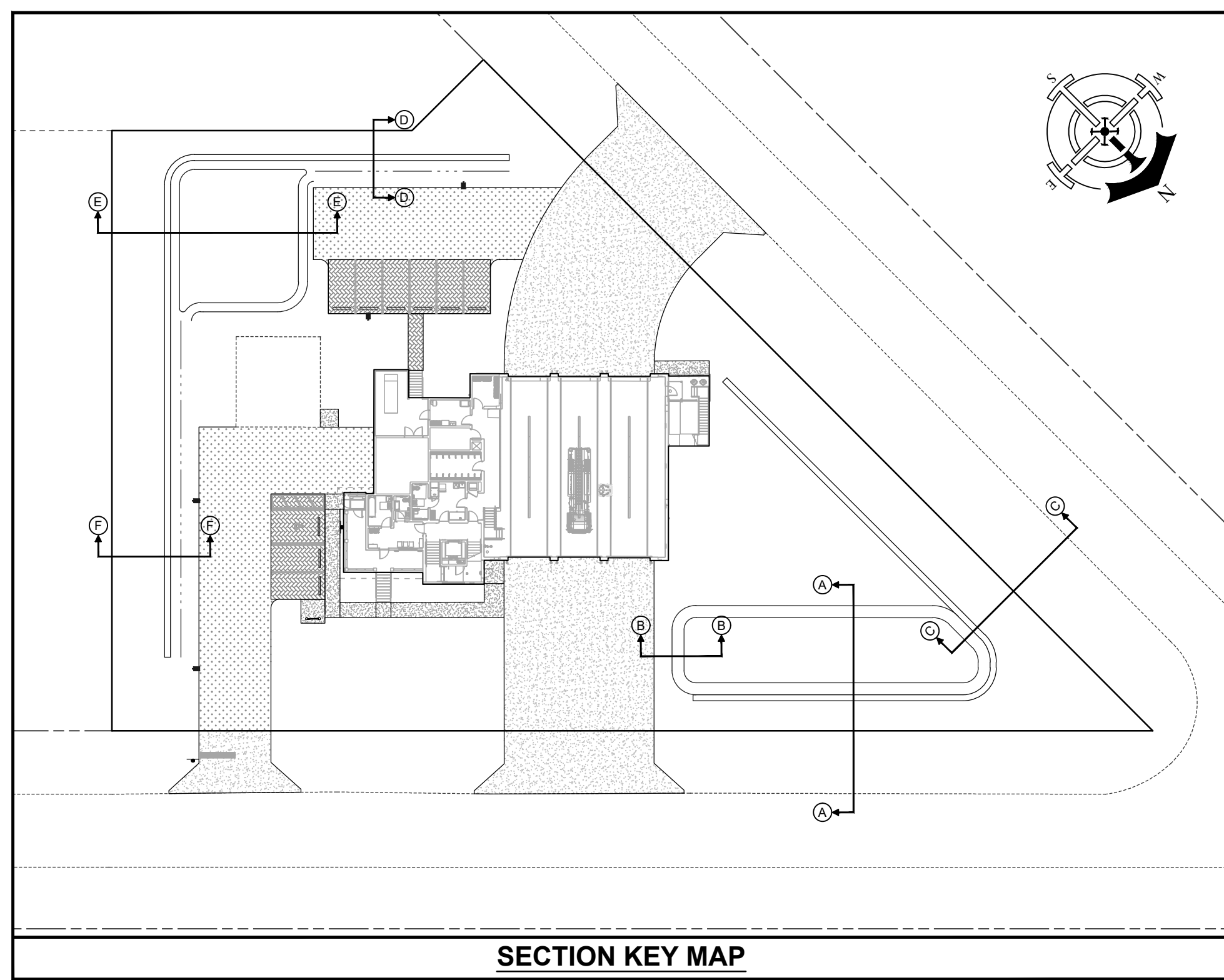
**PROFILE**  
VERTICAL: 1" = 2'  
HORIZONTAL: 1" = 20'

**PROJECT DATUM**  
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DATUM CONVERSION  
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RESPEC  
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#	DATE

**TYPICAL SECTIONS**

Project Manager: LMG  
Drawn By: BMP  
Project Number: W0419.23003  
County, State: LEE COUNTY, FL

Status: \_\_\_\_\_  
Sheet Number: 7

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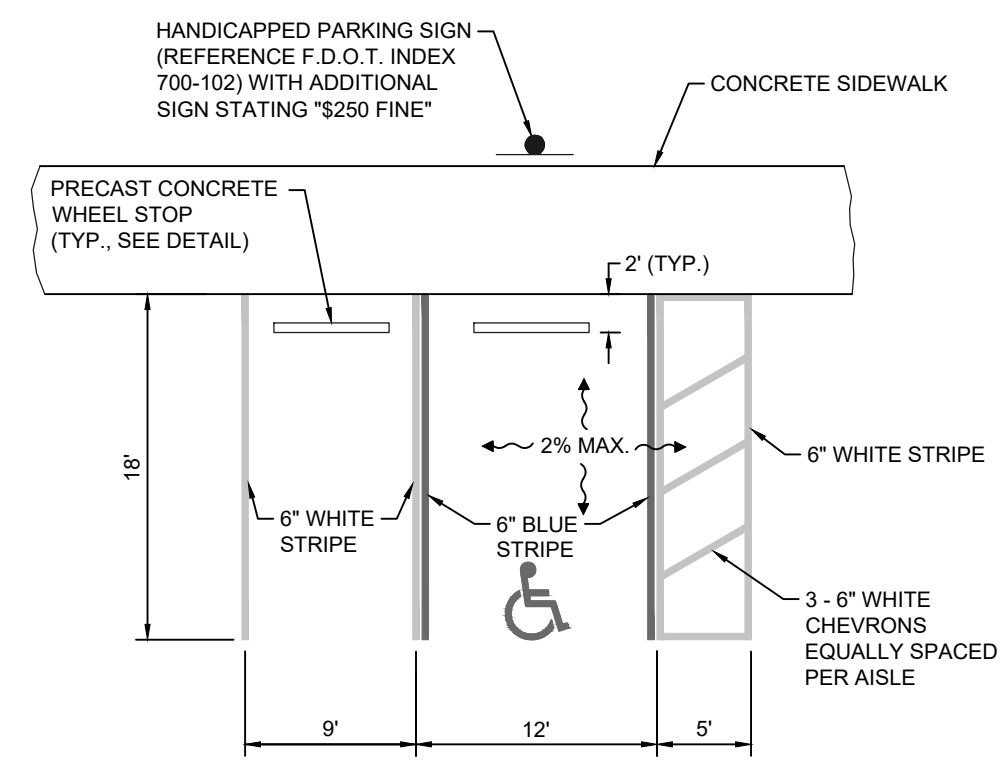
PLAN REVISIONS	DESCRIPTION
#	DATE

**PAVING DETAILS**

Project Manager: LMG  
Drawn By: BMP  
Project Number: W0419-23003  
County, State: LEE COUNTY, FL

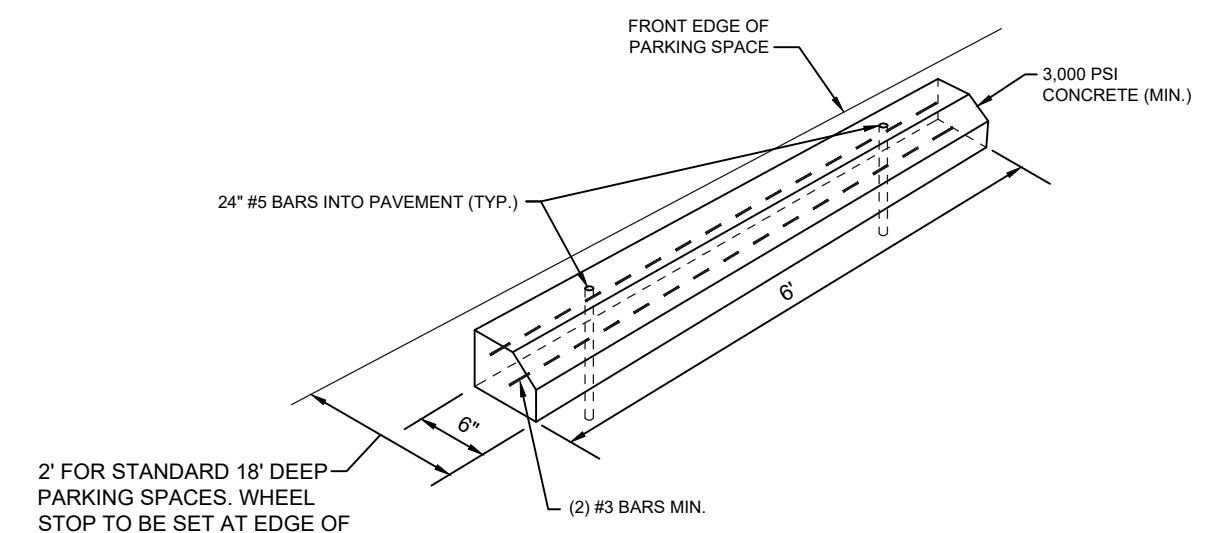
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Sheet Number: 8



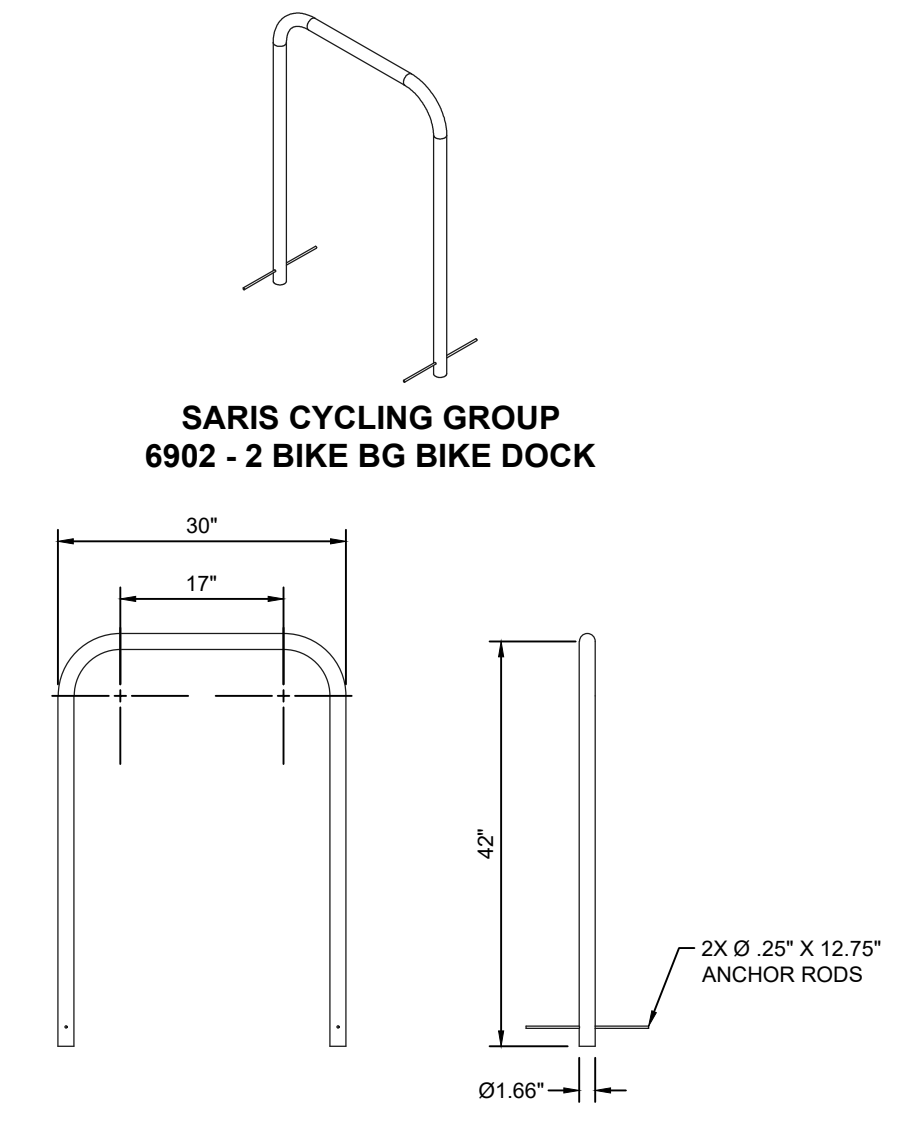
- NOTES:**
1. ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 (2%) IN ALL DIRECTIONS PER ADA STANDARDS FOR ACCESSIBLE DESIGN SECTION 4.6.
  2. REFERENCE FDOT INDEX 711-001.

**TYPICAL PARKING SPACE DETAIL**  
NTS



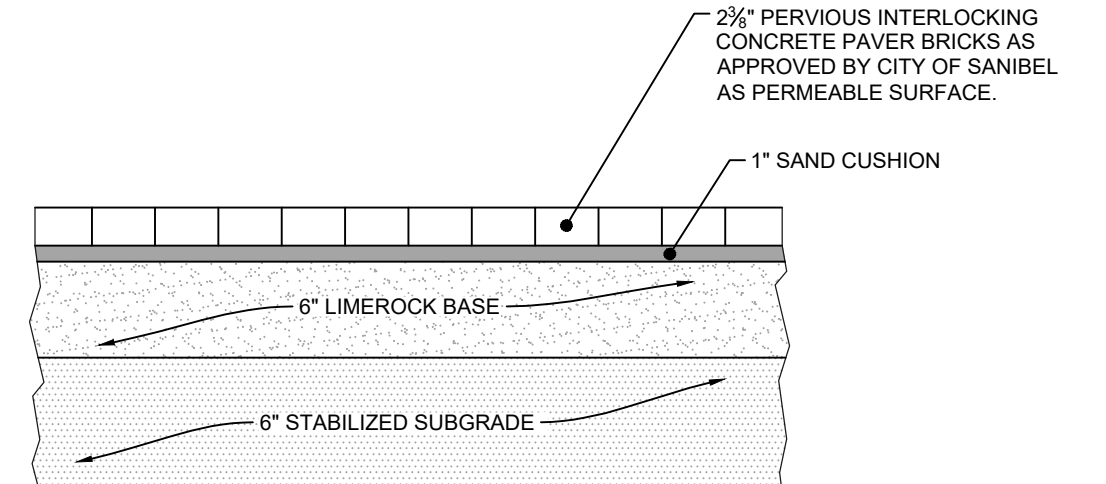
- 2' FOR STANDARD 18' DEEP PARKING SPACES. WHEEL STOP TO BE SET AT EDGE OF PAVEMENT FOR 18' DEEP PARKING SPACES

**WHEEL STOP DETAIL**  
NTS



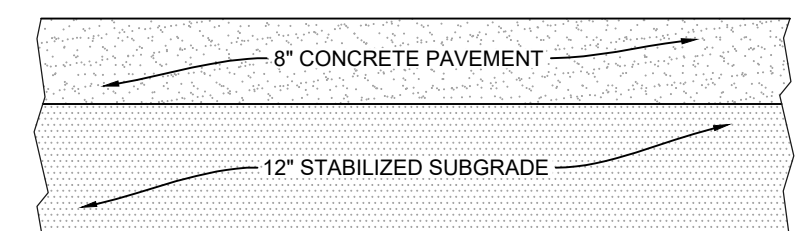
- NOTE:**
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

**BIKE RACK DETAIL**  
NTS



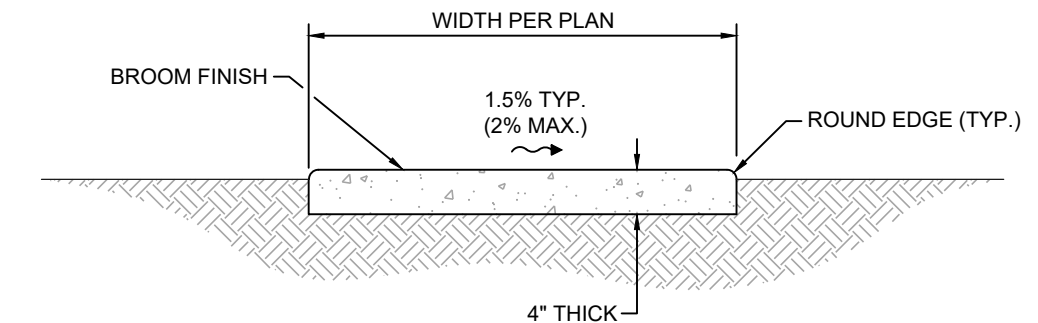
- PAVEMENT NOTES:**
1. 6" LIMEROCK BASE, PRIMED AND COMPACTED TO 98% OF MAX. DENSITY (DETERMINED BY AASHTO T-180), (MIN. LBR 100).
  2. 6" STABILIZED SUBGRADE (MIN. LBR 40).
  3. STABILIZED SUBGRADE TO EXTEND 1 FOOT BEYOND EDGE OF PAVEMENT AND BACK OF CURB.
  4. WHEN NO CURB IS PROPOSED LIMEROCK TO EXTEND 6 INCHES BEYOND EDGE OF PAVEMENT.
  5. PAVER BRICK SHALL BE A MINIMUM 2 1/2" THICK.
  6. EDGE OF PAVER BRICKS SHALL HAVE A CAST IN PLACE CONCRETE RETAINING EDGE.
  7. SELECTION AND PATTERN OF PAVER BRICKS BY OTHERS.

**PERVIOUS PAVER BRICK PAVEMENT DETAIL**  
NTS



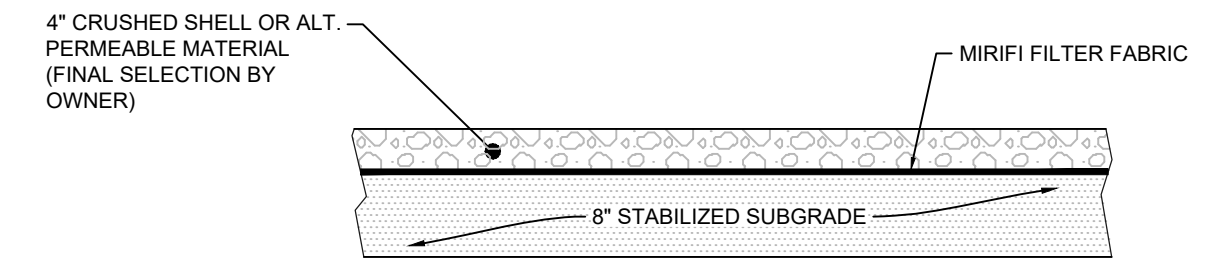
- PAVEMENT NOTES:**
1. CONCRETE PAVEMENT SHALL BE TYPE II PORTLAND CEMENT WITH A COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
  2. 12" STABILIZED SUBGRADE (MIN. LBR 40), COMPACTED TO 98% MAX. DRY DENSITY.
  3. STABILIZED SUBGRADE TO EXTEND 1 FOOT BEYOND EDGE OF PAVEMENT AND BACK OF CURB.
  4. PAVEMENT SECTION TO BE VERIFIED WITH GEOTECHNICAL REPORT PRIOR TO CONSTRUCTION.

**TYPICAL ON-SITE CONCRETE PAVEMENT SECTION**  
NTS



- NOTES:**
1. SIDEWALK SHALL BE CONSTRUCTED IN CONFORMANCE WITH FDOT STANDARD PLANS INDEX 522-001 AND STANDARD SPECIFICATION 522 AND CORRESPONDING STANDARDS.
  2. COMPACT FILL AREAS TO MINIMUM 95% OF AASHTO T99 DENSITY.
  3. SIDEWALK SHALL HAVE CONTRACTION JOINTS SPACED EQUALLY TO THE SIDEWALK WIDTH AND HAVE EXPANSION JOINTS EVERY 120' MAXIMUM.
  4. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI IN 28 DAYS.
  5. SIDEWALKS SHALL HAVE A MAXIMUM RUNNING SLOPE OF 1:20 (5%) AND A MAXIMUM CROSS SLOPE OF 1:50 (2%) PER ADA STANDARDS FOR ACCESSIBLE DESIGN SECTION 4.3.
  6. CURB RAMPS SHALL BE CONSTRUCTED IN CONFORMANCE WITH ADA STANDARDS FOR ACCESSIBLE DESIGN SECTION 4.7 AND FDOT STANDARD PLANS INDEX 522-002.

**TYPICAL CONCRETE SIDEWALK DETAIL**  
NTS

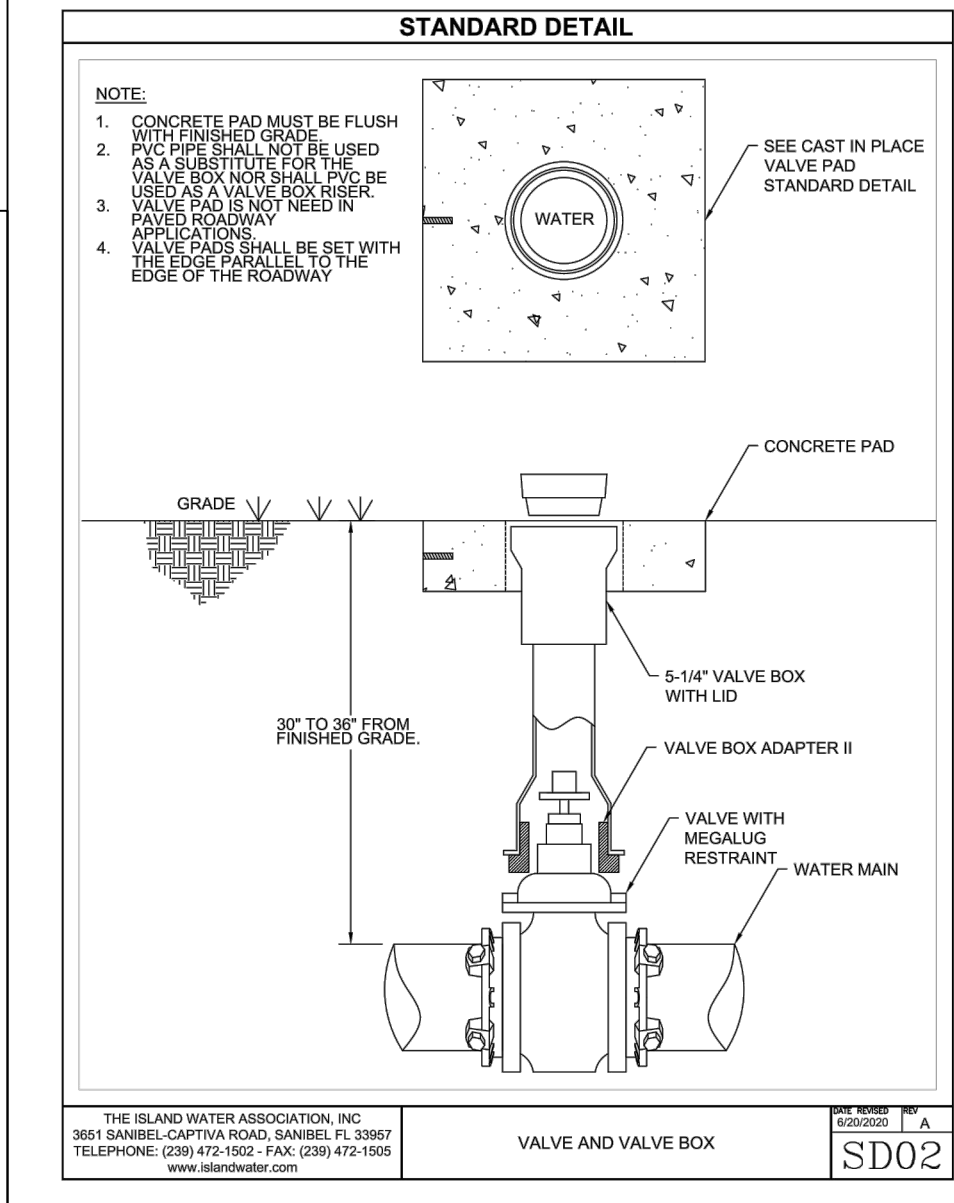
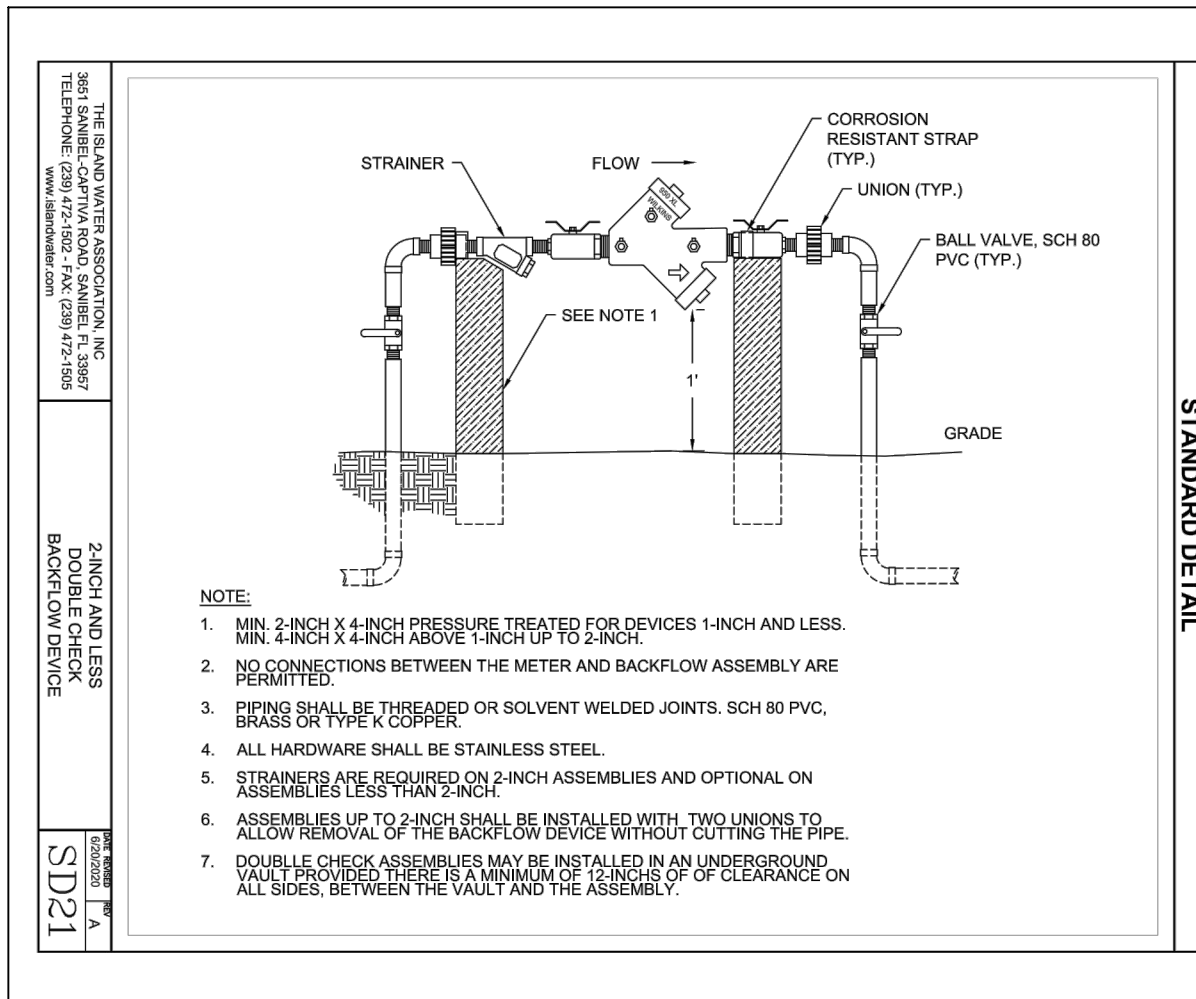
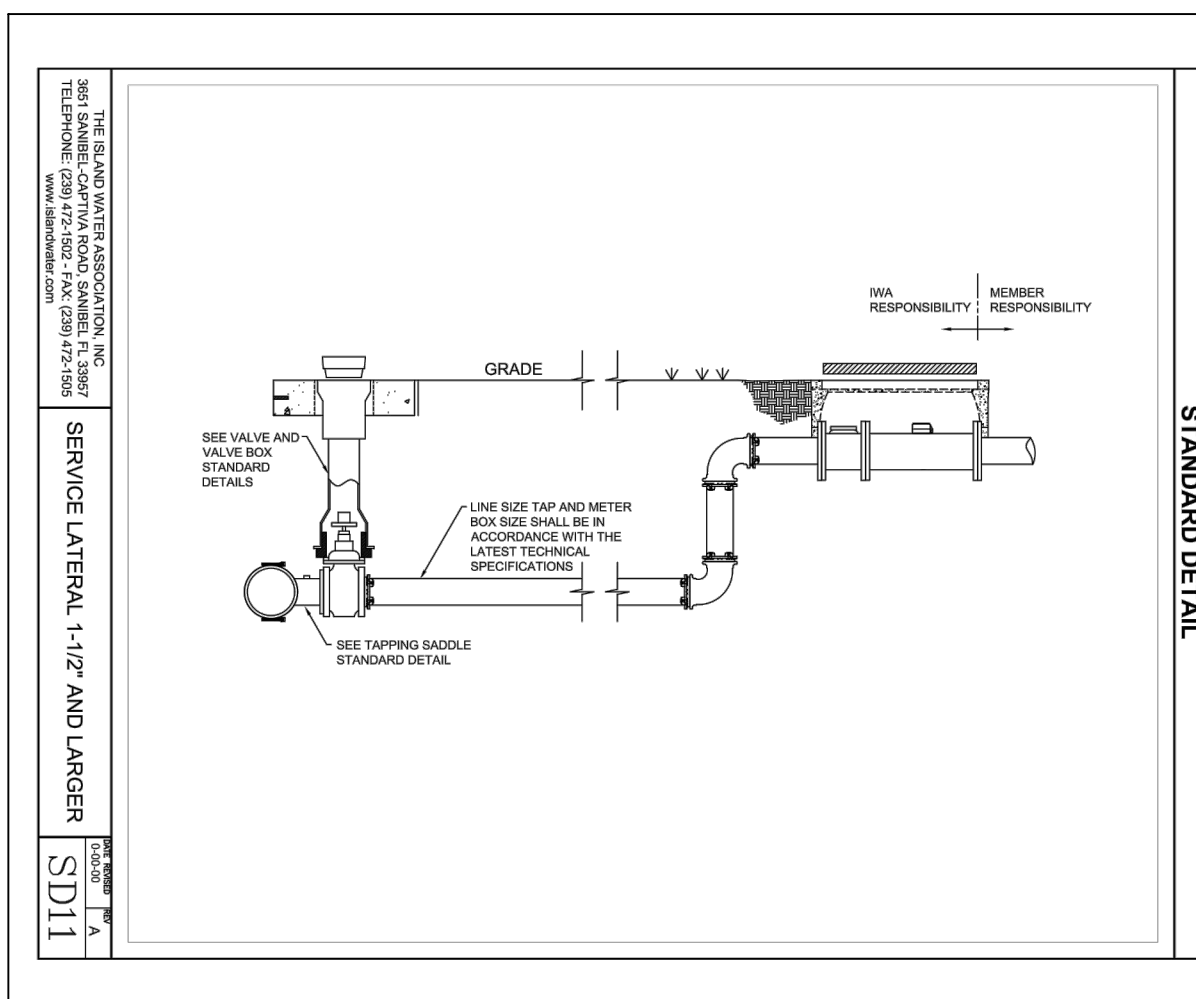
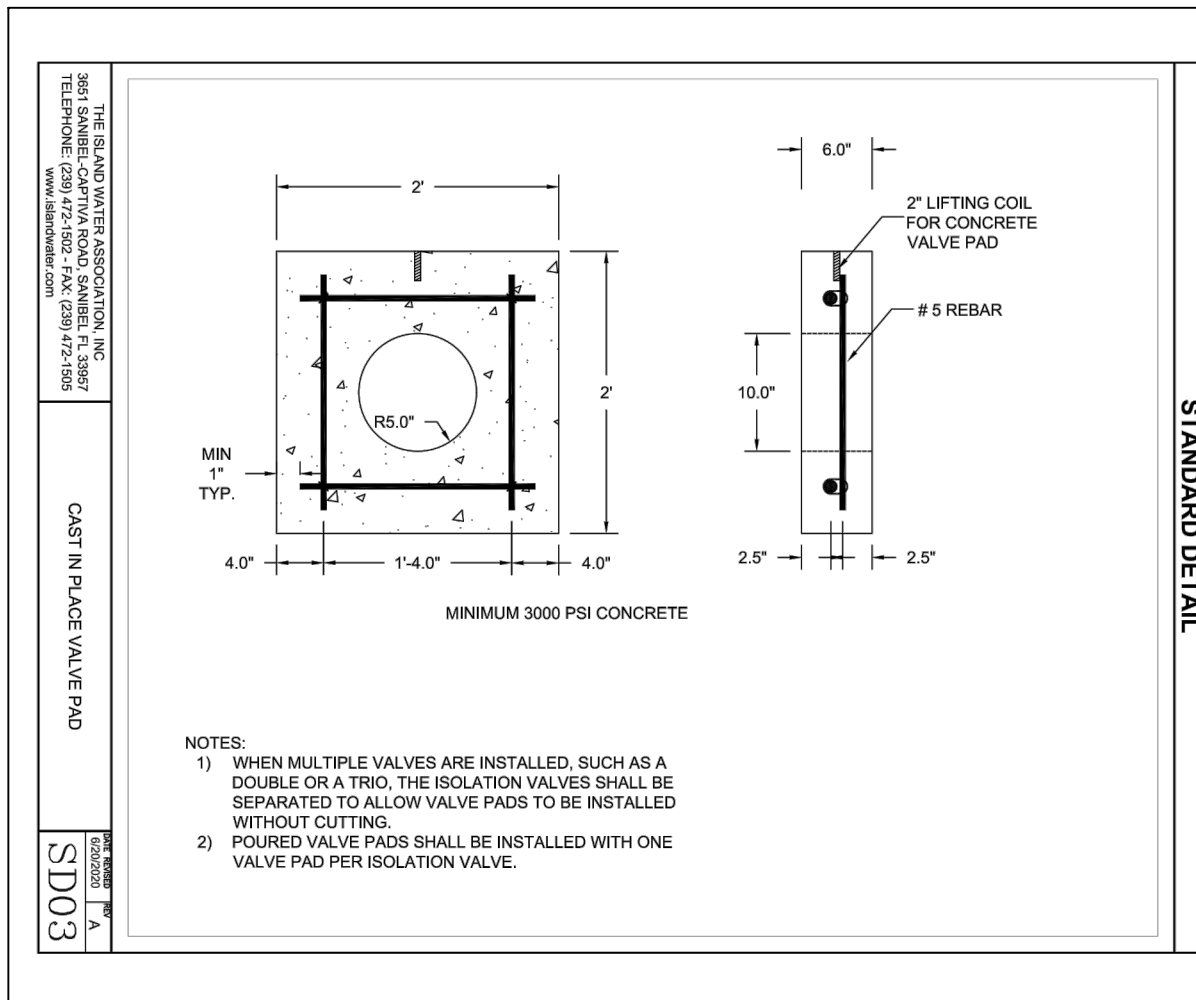


- NOTES:**
1. 8" STABILIZED SUBGRADE (MIN. LBR 40).
  2. STABILIZED SUBGRADE TO EXTEND 1 FOOT BEYOND EDGE OF PERMEABLE MATERIAL.

**TYPICAL PERMEABLE DRIVEWAY SECTION**  
NTS

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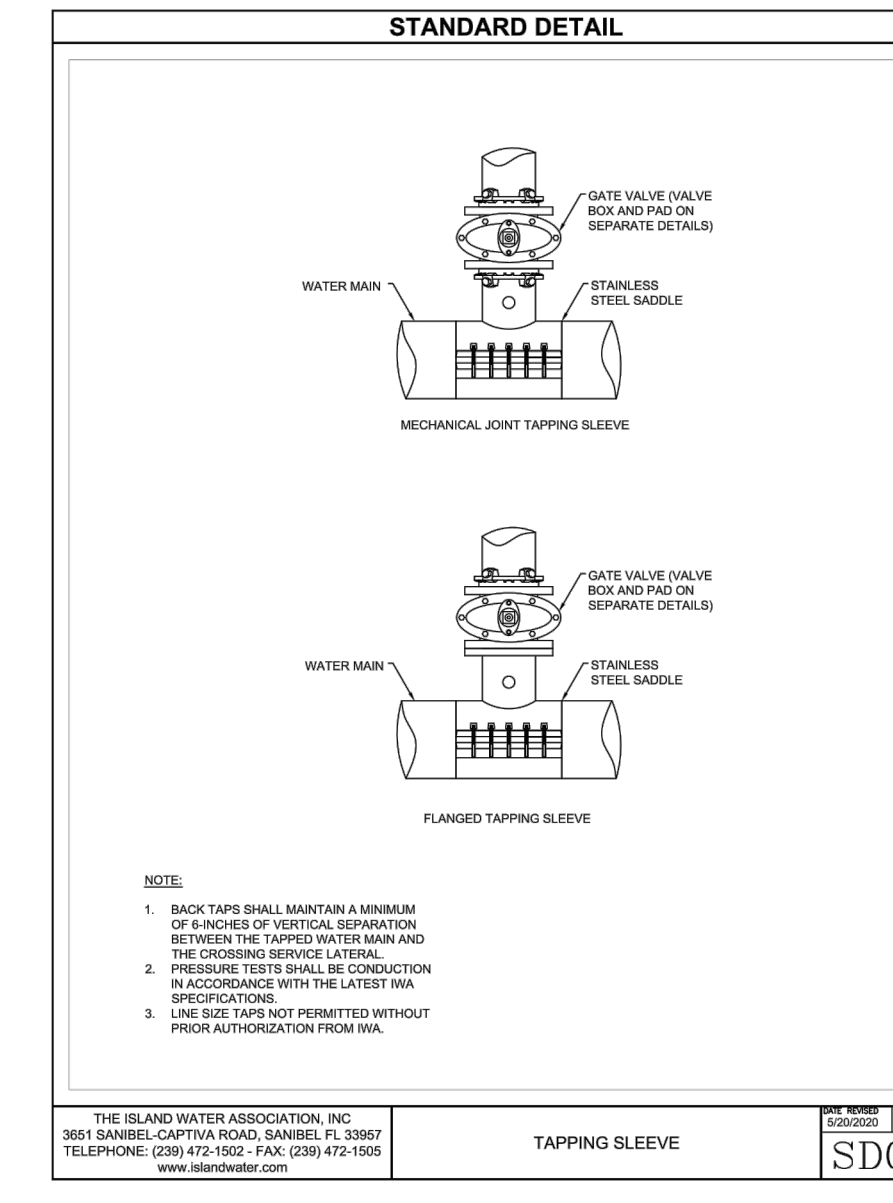
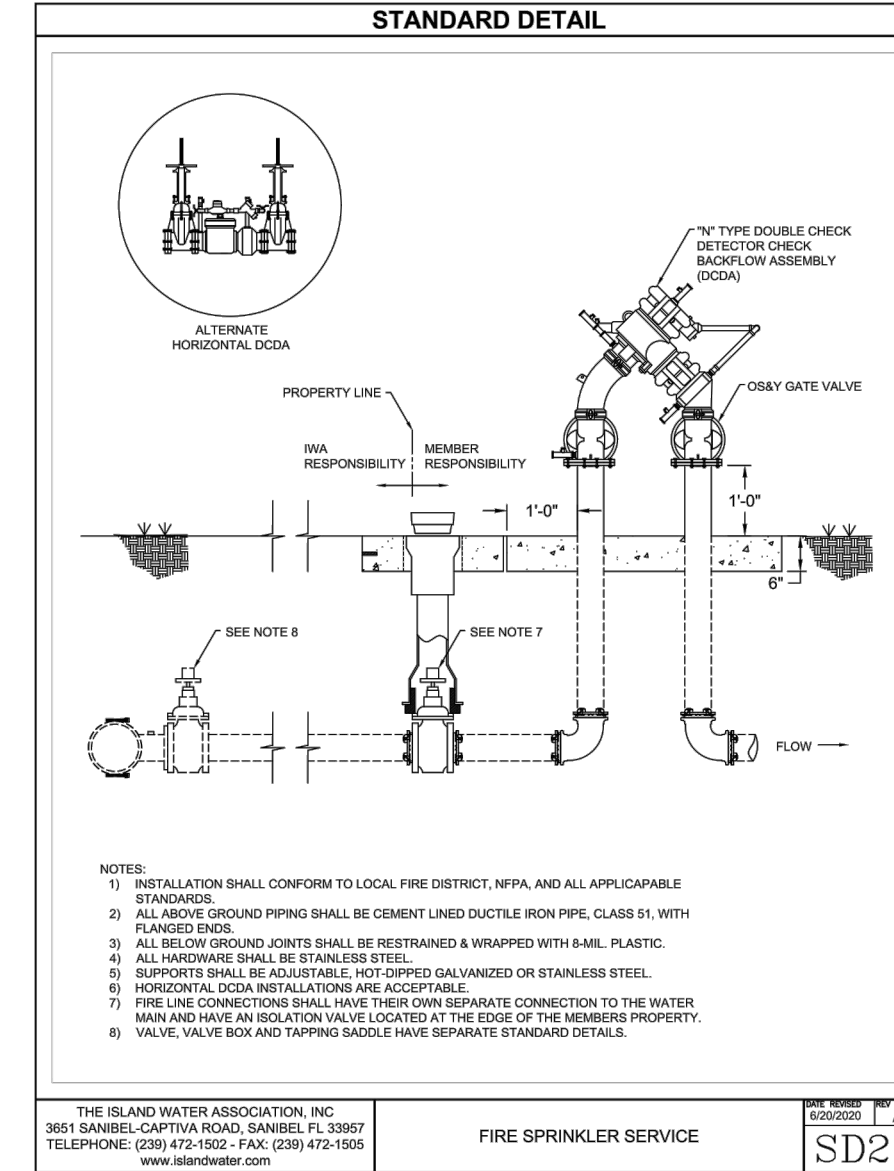
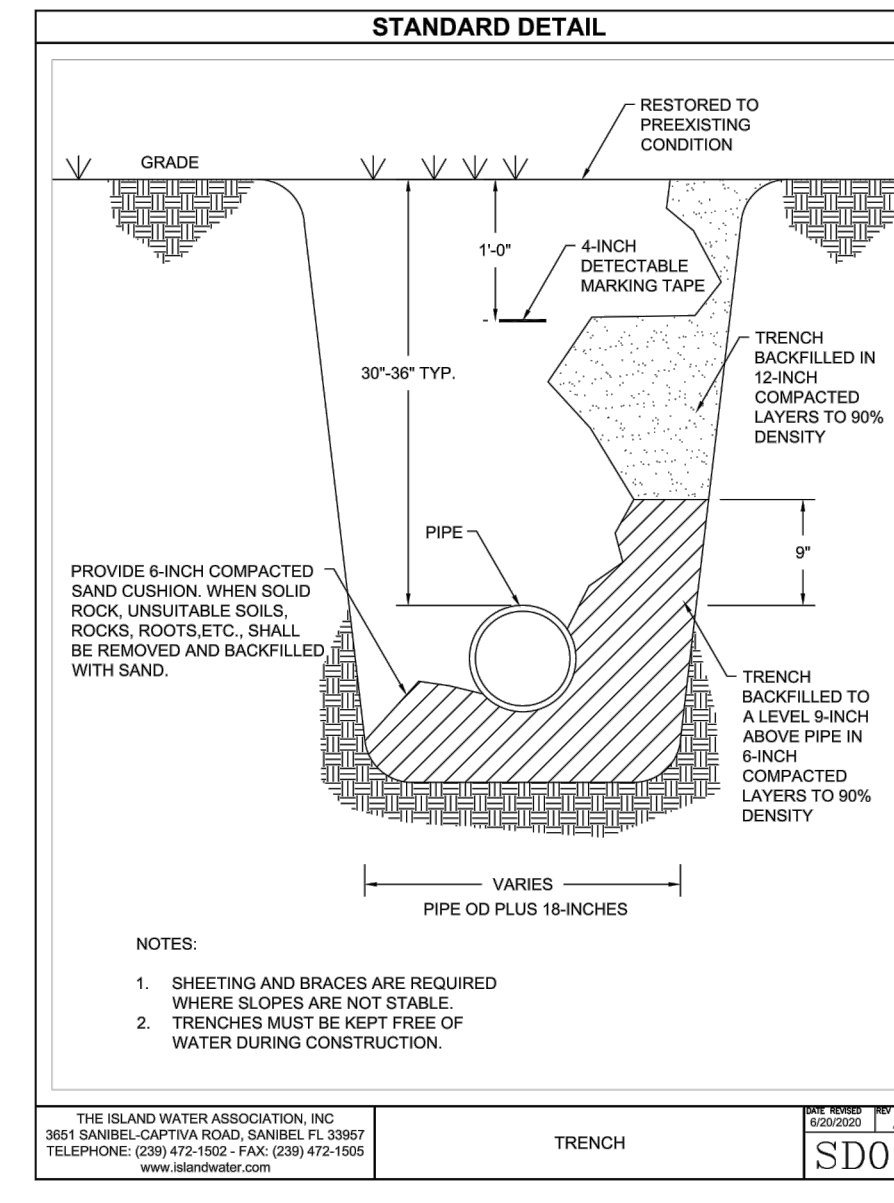
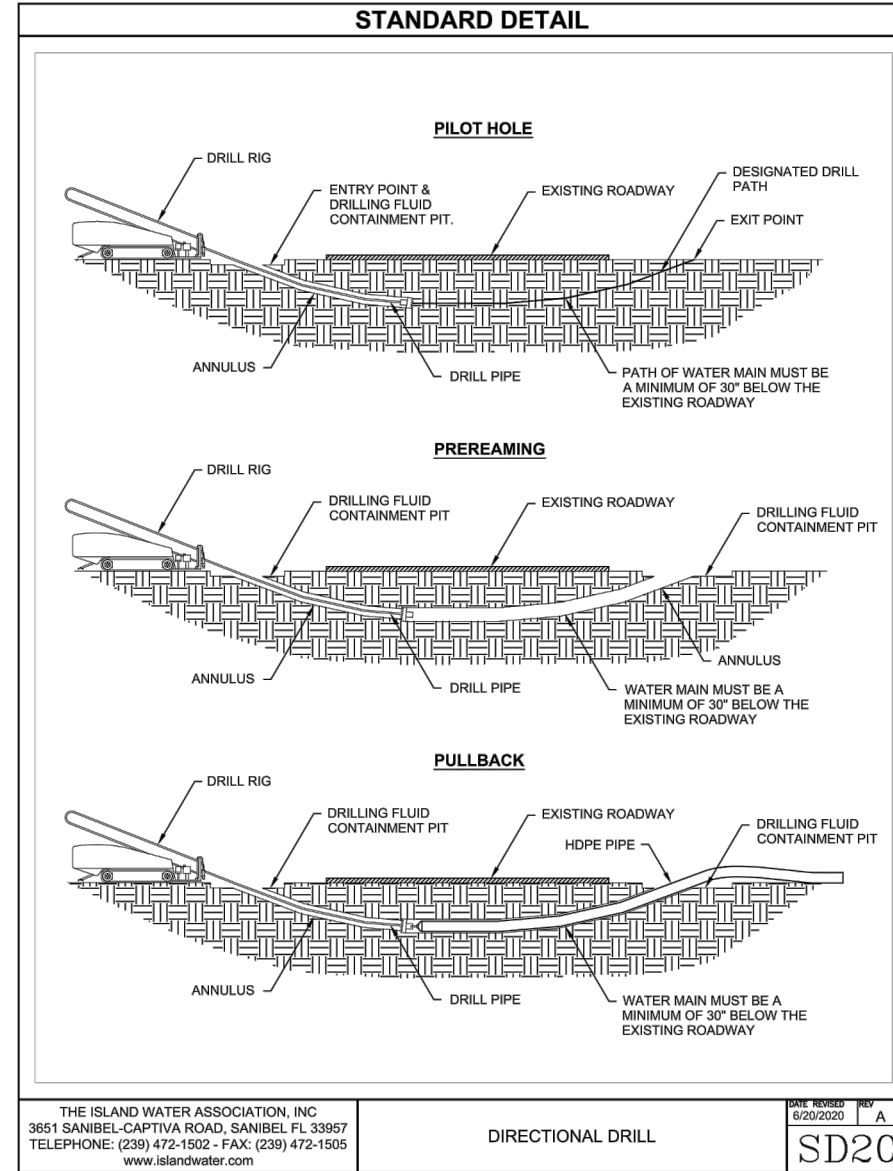
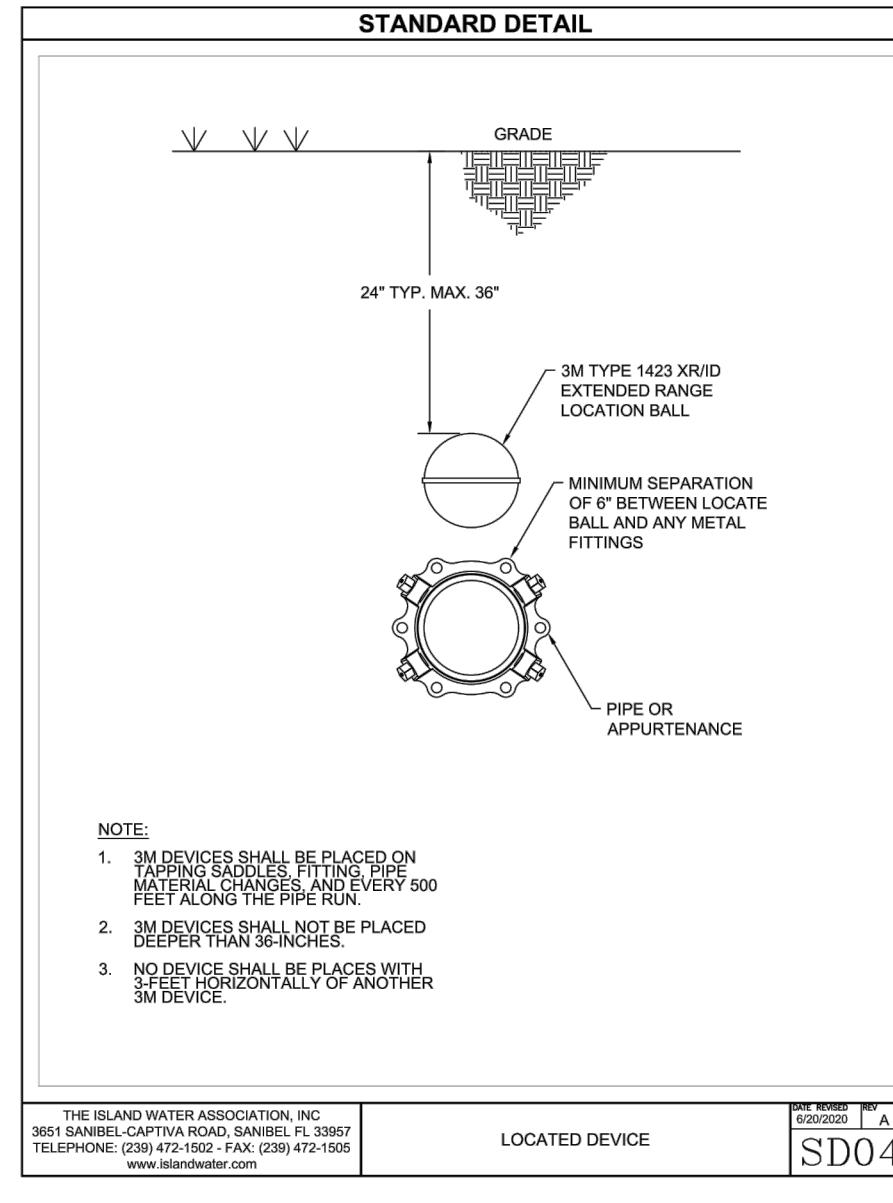
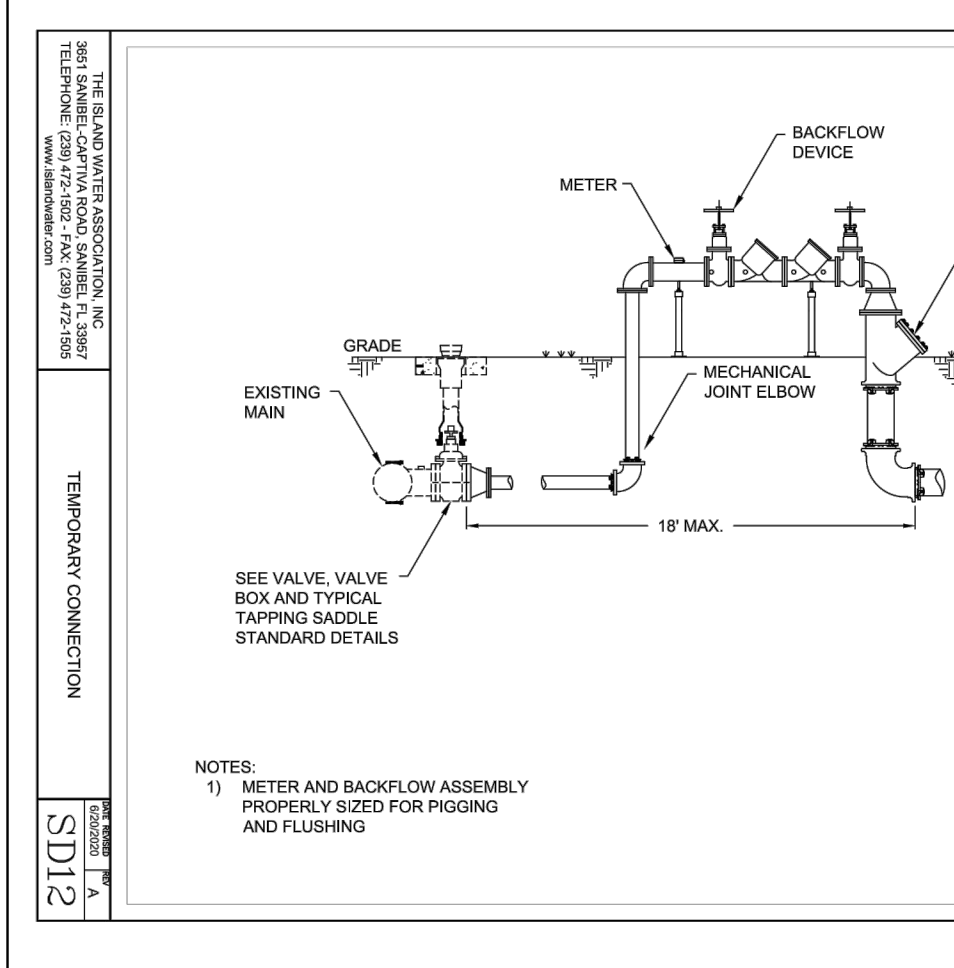
**SD15: EXTERNAL RESTRAINT SCHEDULE**

Soil type =SP  
 1.5 safety factor  
 trench type 3  
 30" cover  
 150 psi test pressure

Size	Restrained Length in feet for Ductile Iron (poly wrapped)				
	Bend	45	22.5	11.25	Dead End Tee
4	24	10	5	3	69
6	34	14	7	4	97
8	43	18	9	5	126
10	51	22	11	5	151
12	60	25	12	6	177
14	67	28	14	7	201
16	75	31	15	8	225
20	89	37	18	9	272

Size	Restrained Length in feet for PVC				
	Bend	45	22.5	11.25	Dead End Tee
4	21	9	5	2	45
6	28	12	6	3	63
8	37	16	8	4	83
10	44	18	9	5	99
12	51	21	11	5	116
14	57	24	12	6	132
16	64	27	13	7	149
20	76	32	16	8	179



**SD18: LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314**

Other Pipe	Horizontal Separation	Crossings (1)	Joint Spacing @ Crossings
Storm Sewer, Stormwater Force Main, Reclaimed Water (2)	Water Main 3 ft. Minimum	Water Main 12 inches is the minimum except for storm sewer, then 6 inches is the minimum and 12 inches is preferred.	Alternate 3 ft. minimum Water Main
Vacuum Sanitary Sewer	Water Main 10 ft. preferred 3 ft. Minimum	Water Main 12 inches is preferred 6 inches minimum	Water Main
Gravity or Pressure Sanitary Sewer, Sanitary Sewer Force Main, Reclaimed Water (4)	Water Main 10 ft. preferred 6 ft. Minimum (3)	Water Main 12 inches is the minimum except for gravity sewer, then 6 inches is the minimum and 12 inches is preferred.	Alternate 6 ft. minimum Water Main
Other Sewage Treatment & Disposal System	10 ft. Minimum	--	--

Notes:  
 (1) Water main should cross above other pipe. When water main must be below other pipe, the minimum separation is 12 inches.  
 (2) Reclaimed Water regulated under Part III of Chapter 62-610, F.A.C.  
 (3) 3 ft. for gravity sanitary sewer where the bottom of the water main is laid at least 60 inches above the top of the gravity sanitary sewer.  
 (4) Reclaimed water not regulated under Part III of Chapter 62-610, F.A.C.  
 (5) Additional information under paragraph 3j of 62-604, F.A.C.  
 Disclaimer - This document is for your convenience only. Please refer to F.A.C. Rule 62-555.314 for additional requirements.



RESPEC  
 1605 Hendry Street  
 Fort Myers, FL 33901  
 (239) 418-0691  
 Florida Registry License No. 33253

ENGINEER OF RECORD:  
 LISA M. GORDANO, P.E.  
 FLORIDA P.E. NO. 59319

AREA RESERVED FOR AGENCY USE

OWNER / DEVELOPER:  
**SANIBEL FIRE & RESCUE DISTRICT**  
 2351 PALM RIDGE ROAD  
 SANIBEL, FL 33957  
 (239) 472-5625

PROJECT:  
**SANIBEL FIRE RESCUE STATION #172**

PLAN REVISIONS

#	DATE	DESCRIPTION

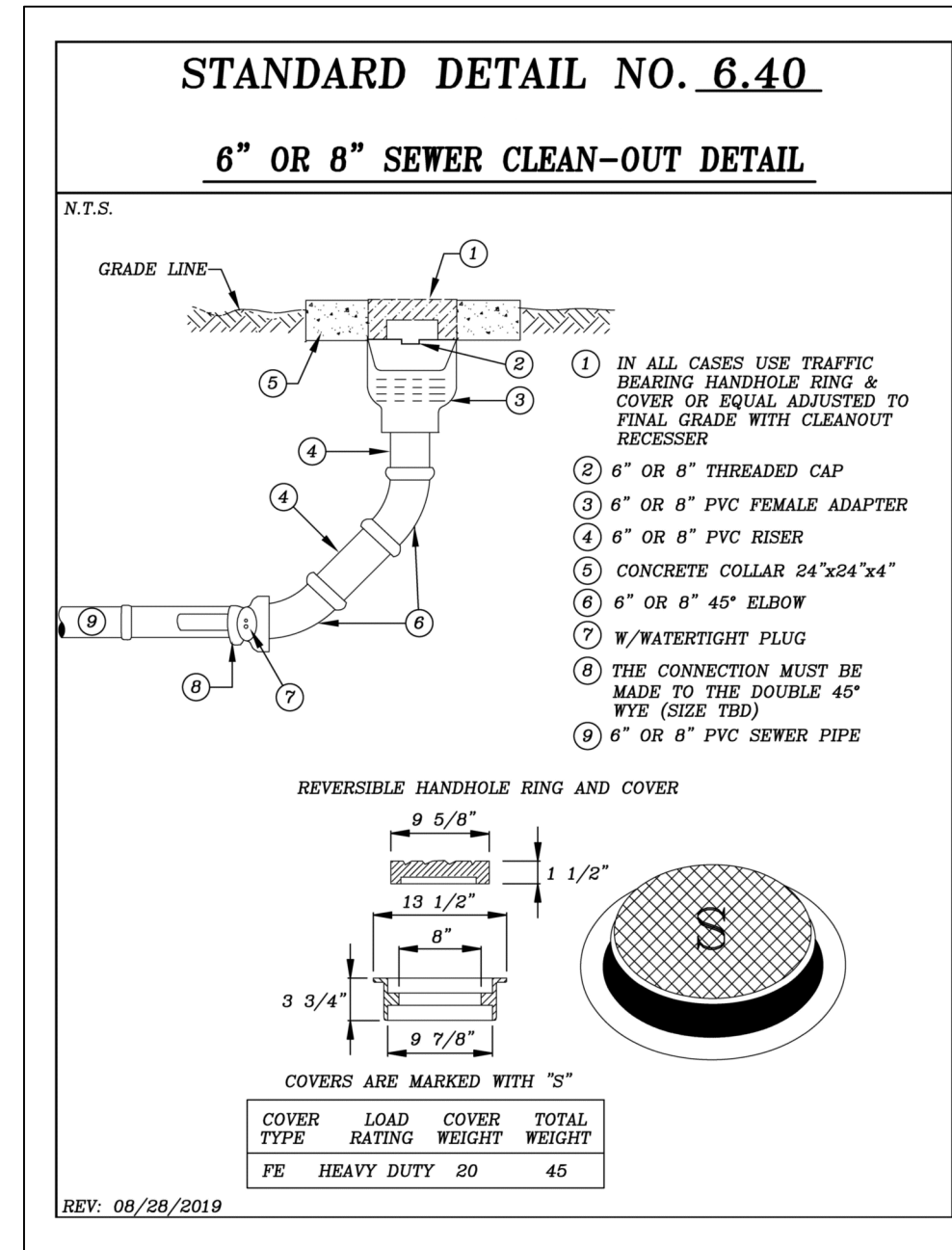
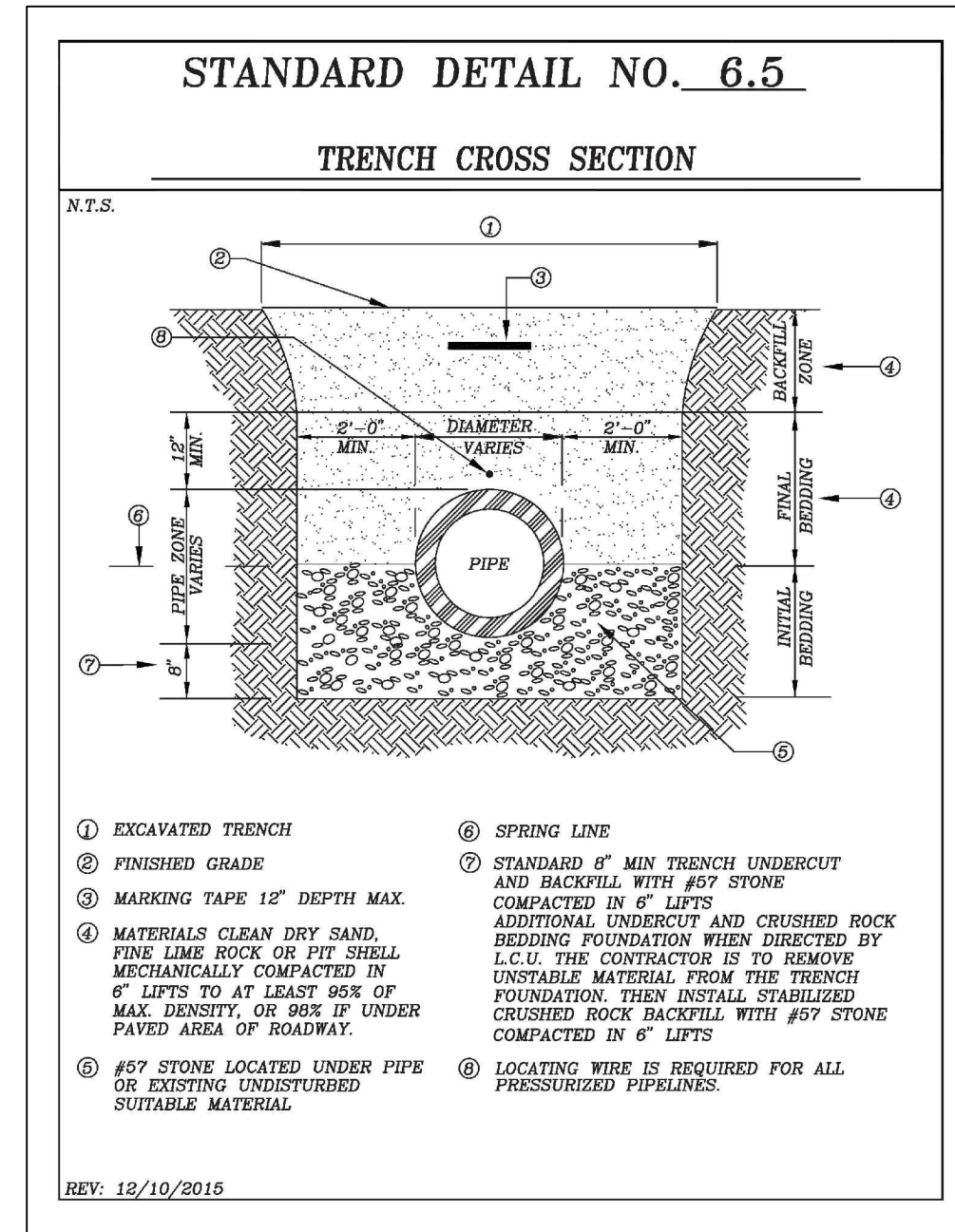
ISLAND WATER ASSOCIATION  
 UTILITY DETAILS

Project Manager: LMG  
 Drawn By: BMP  
 Project Number: W0419-23003  
 County, State: LEE COUNTY, FL

Sheet Number: 9



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RESPEC  
1605 Hendry Street  
Fort Myers, FL 33901  
(239) 418-0691  
Florida Registry License No. 33253

ENGINEER OF RECORD:  
LISA M. GORDANO, P.E.  
FLORIDA P.E. NO. 59318

AREA RESERVED FOR AGENCY USE

OWNER / DEVELOPER:  
**SANIBEL FIRE & RESCUE DISTRICT**  
2351 PALM RIDGE ROAD  
SANIBEL, FL 33957  
(239) 472-5525

PROJECT:

**SANIBEL FIRE  
RESCUE STATION #172**

PLAN REVISIONS

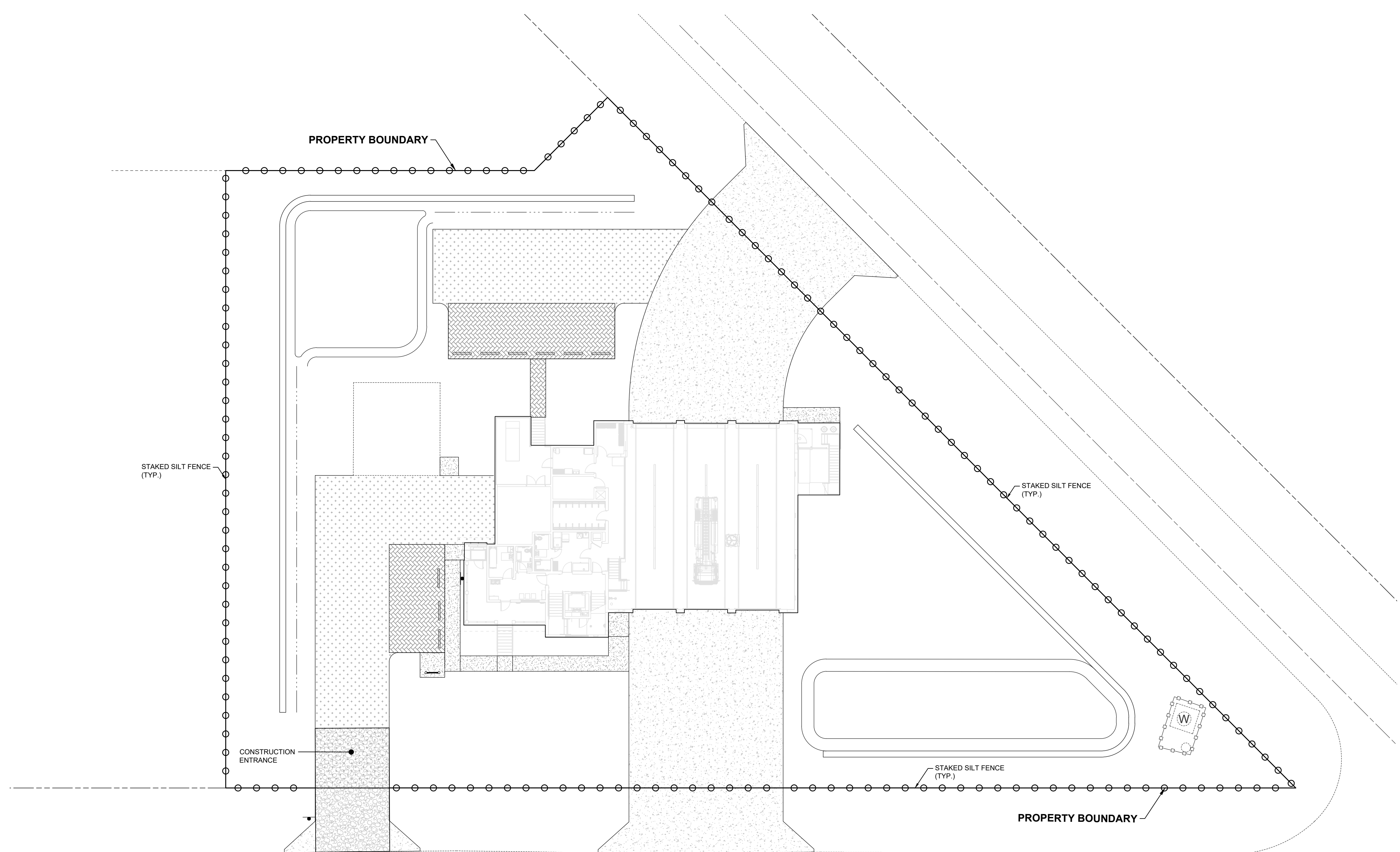
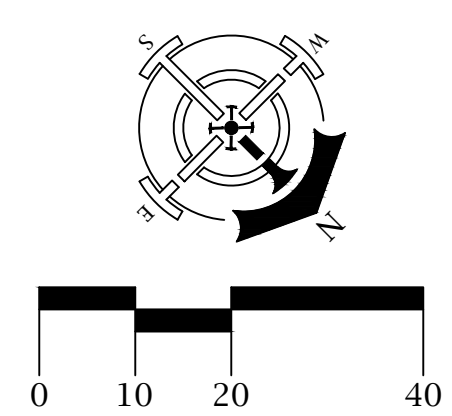
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**WATER & SEWER  
DETAILS**

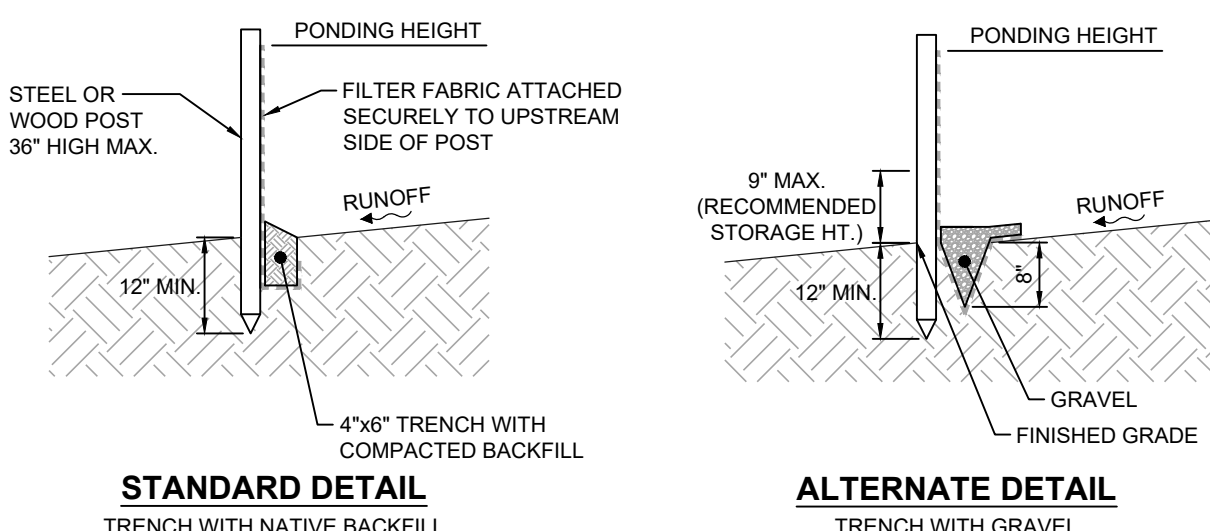
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Drawn By: BMP  
Project Number: W0419 23003  
County, State: LEE COUNTY, FL

Status:

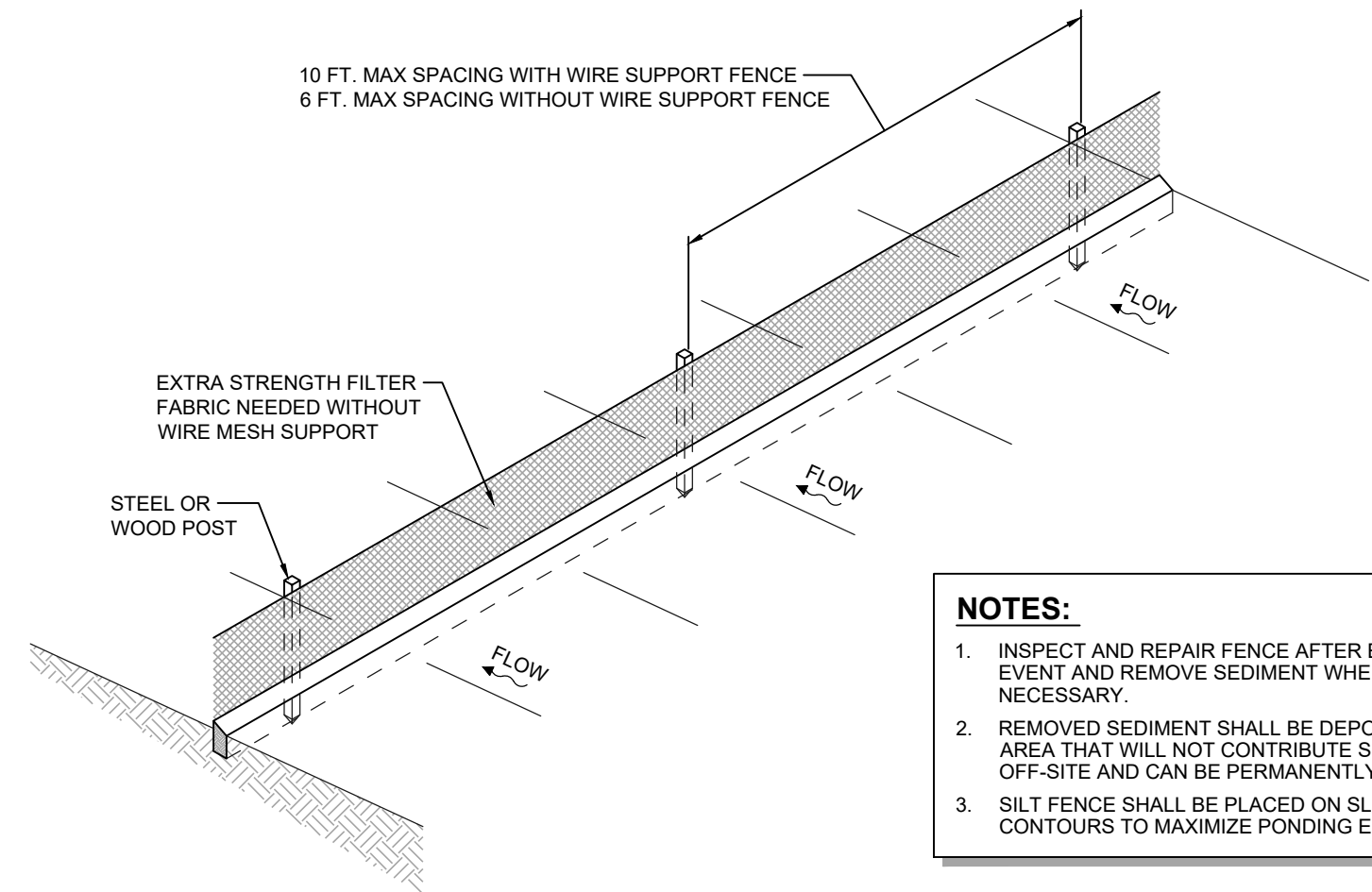




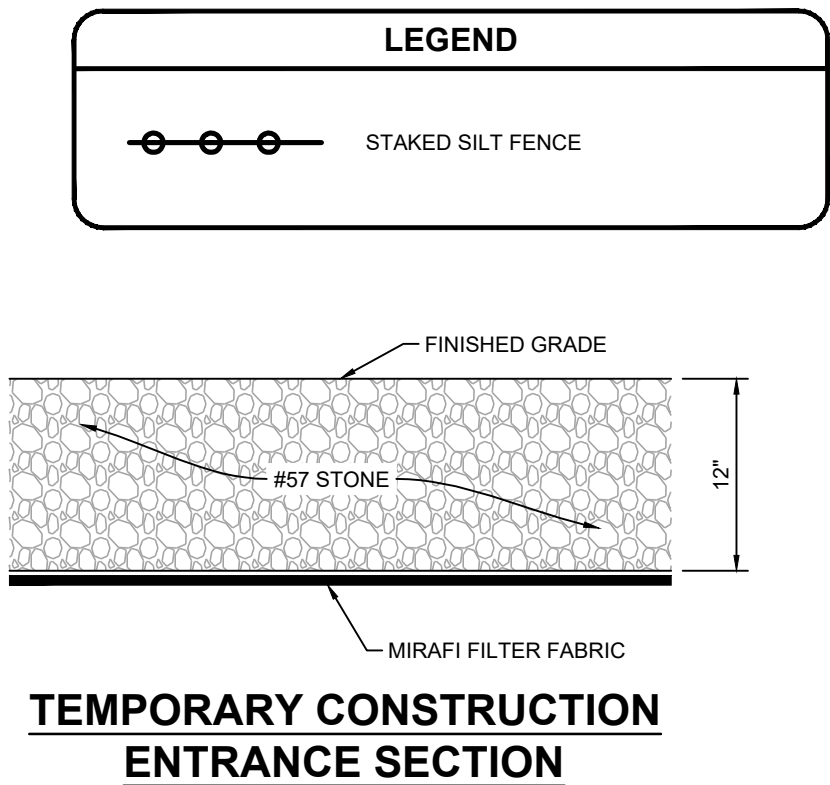
- EROSION CONTROL NOTES:**
1. THESE DETAILS REPRESENT TYPICAL BEST MANAGEMENT PRACTICES FOR SOIL EROSION CONTROL.
  2. PRIOR TO COMMENCEMENT OF CONSTRUCTION APPROPRIATE EROSION CONTROL DEVICES SHALL BE INSTALLED TO CONTROL AND REDUCE SOIL EROSION AND SEDIMENT TRANSPORT TO OFF-SITE AREAS. THE CONTRACTOR SHALL MAINTAIN THESE DEVICES THROUGHOUT THE DURATION OF CONSTRUCTION. ALL DEVICES SHALL REMAIN IN PLACE UNTIL PERMANENT EROSION CONTROL IS ESTABLISHED.
  3. AREAS LOCATED ADJACENT TO UNDEVELOPED AREAS SHALL BE STABILIZED WITH SOD IMMEDIATELY UPON REACHING FINAL GRADE.
  4. THE CONTRACTOR SHALL SUPPLEMENT THIS PLAN AS MAY BE REQUIRED TO CONTROL AND REDUCE SOIL EROSION BASED ON THE CONTRACTORS MEANS, METHODS AND TECHNIQUE OF CONSTRUCTION. THE CONTRACTOR SHALL ALSO FILE A NOTICE OF INTENT WITH THE EPA AND LEE COUNTY AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
  5. CONSTRUCTION DEBRIS FROM THE PROJECT WILL BE REMOVED FROM THE SITE BY TRUCK.
  6. SILT FENCE WILL BE UTILIZED AND REMAIN IN PLACE THROUGHOUT CONSTRUCTION.



**SILT FENCE DETAIL**  
NTS



- NOTES:**
1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
  2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
  3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.



**PROJECT DATUM**  
NAVD  
DATUM CONVERSION  
NAVD + 1.17 = NGVD



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SANIBEL, FL 33957  
(239) 472-5625

PROJECT:  
**SANIBEL FIRE  
RESCUE STATION #172**

PLAN REVISIONS	
#	DESCRIPTION

**EROSION CONTROL PLAN**

Project Manager: LMG  
Drawn By: BMP  
Project Number: W0419-23003  
County, State: LEE COUNTY, FL

Status: \_\_\_\_\_

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