

# CONSTRUCTION PLANS FOR INSPIRATION AT SOUTH POINTE

## SECTION 15, TOWNSHIP 45 S., RANGE 24 E. LEE COUNTY, FLORIDA

### UTILITIES PROVIDING SERVICE:

#### WATER AND SEWER:

LEE COUNTY UTILITIES  
1500 MONROE ST  
FORT MYERS, FLORIDA 33901  
PHONE: (239) 533-8181

#### TELEPHONE:

CENTURYLINK  
1520 LEE STREET  
FORT MYERS, FLORIDA 33901  
PHONE: (239) 336-2030

#### CABLE:

CENTURYLINK  
1520 LEE STREET  
FORT MYERS, FLORIDA 33901  
PHONE: (239) 336-2030

#### ELECTRIC:

FLORIDA POWER & LIGHT COMPANY  
15834 WINKLER ROAD  
FORT MYERS, FLORIDA 33908  
PHONE: (239) 415-1326

#### GARBAGE COLLECTION:

ADVANCED DISPOSAL  
17101 PINE RIDGE ROAD  
FORT MYERS BEACH, FLORIDA 33931  
PHONE: (239) 334-1224  
FAX: (239) 433-2550

#### FIRE CONTROL DISTRICT:

IONA-MCGREGOR FIRE DISTRICT  
6061 SOUTH POINTE BOULEVARD  
FORT MYERS, FLORIDA 33919  
PHONE: (239) 433-0660  
FAX: (239) 425-9301

#### GAS:

TECO PEOPLES GAS  
5901 ENTERPRISE PKWY  
FORT MYERS, FLORIDA 33905  
PHONE: (877) 832-6747

### DEVELOPER \ OWNER

ZIMMER DEVELOPMENT COMPANY  
111 PRINCESS ST  
WILMINGTON, NC 28401  
PHONE: (910) 763-4669

### STRAP NUMBER

15-45-24-00-00018.0000  
15-45-24-00-00019.0000

### SIZE OF PARCEL

13.35 ACRES

### ZONING

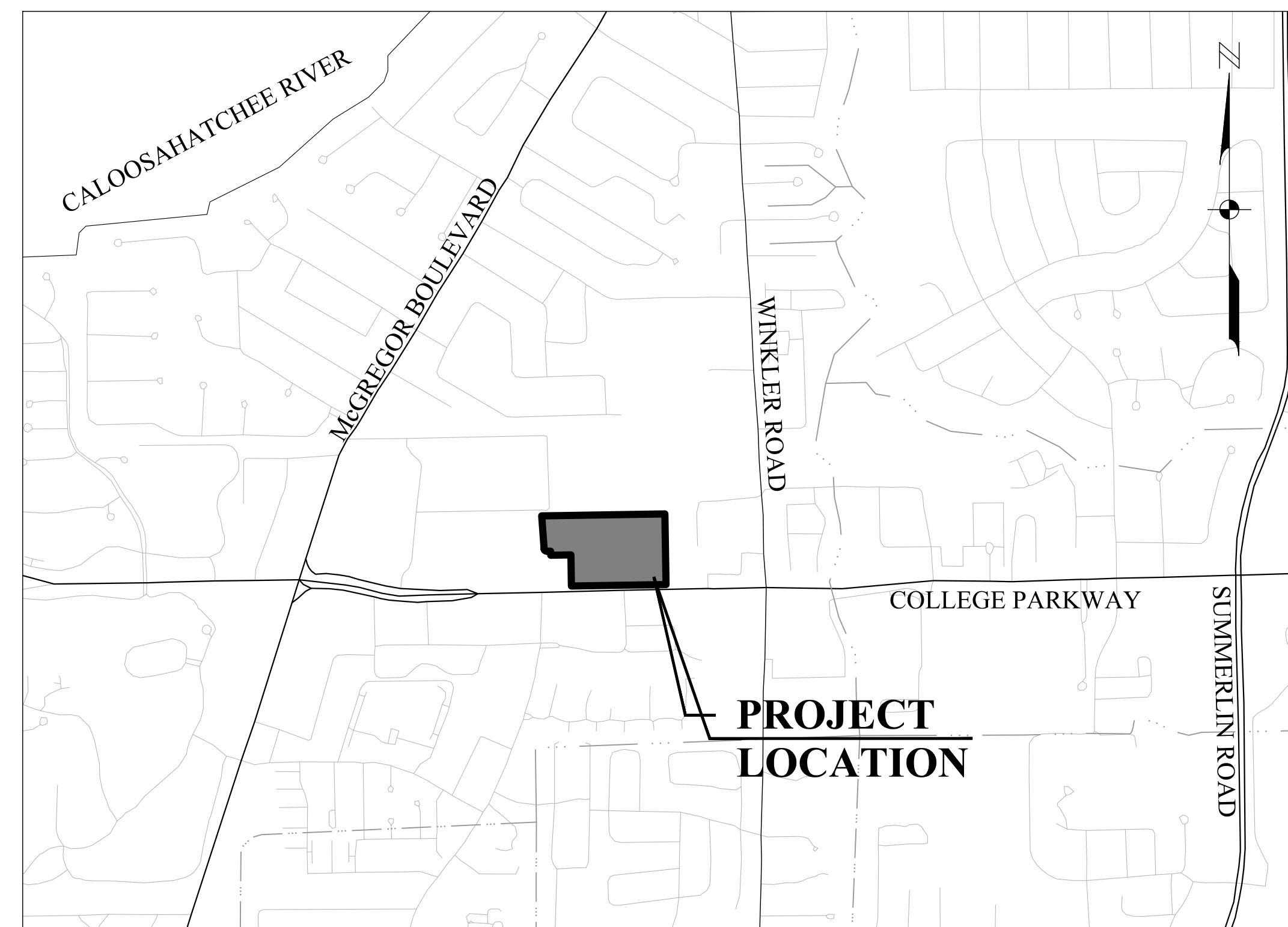
C-2 (Z-20-034)

### SITE ADDRESS

8910 COLLEGE PARKWAY  
FORT MYERS, FL 33919

### INDEX OF PLANS

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### LOCATION MAP

0 1,000 2,000  
(INTENDED DISPLAY SCALE: 1"=1,000')

JUNE 2021  
▲ REVISED AUGUST 2021  
▲ REVISED NOVEMBER 2021

NOTICE TO ALL  
CONTRACTORS  
IT'S THE LAW IN FLORIDA  
2 BUSINESS DAYS BEFORE  
YOU DIG  
CALL SUNSHINE  
1-800-432-4770  
STATE, COUNTIES & CITIES  
ARE "NOT" PART OF THE  
ONE CALL SYSTEM THEY  
MUST BE CALLED  
INDIVIDUALLY.



**JOHNSON**  
ENGINEERING

JOHNSON ENGINEERING, INC.  
2122 JOHNSON STREET  
P.O. BOX 1550  
FORT MYERS, FLORIDA 33902-1550  
PHONE: (239) 334-0046  
FAX: (239) 334-3661  
E.B. #642 & L.B. #642

REGISTERED PROFESSIONAL ENGINEER  
FLORIDA LICENSE NO. 82277

TYLER M. SHARPE, PE

DATE

SHEET NUMBER  
C01

ABBREVIATIONS

Table of abbreviations including AC, ALT, APPROX., ASB, BM, BLDG, BOT, etc.

SYMBOLS

Table of symbols for GATE VALVE, TEE ASSEMBLY, REDUCER, BLOW OFF, FIRE HYDRANT, etc.

HATCH PATTERNS

Table of hatch patterns for WETLAND, UPLAND BUFFER, UPLAND PRESERVE, INDIGENOUS AREA, NATURAL AREA, FILTER MARSH, EXISTING LAKE, etc.

LINETYPES

Table of linetypes for RIGHT-OF-WAY LINE, CENTER LINE, LAKE MAINTENANCE EASEMENT, PUBLIC UTILITY EASEMENT, DRAINAGE EASEMENT, etc.

FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD DETAIL NOTES:

- 1. ALL REFERENCES TO FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS ARE (LATEST EDITION).

LEE COUNTY UTILITIES STANDARD DETAIL NOTES:

- 1. ALL REFERENCES TO LEE COUNTY UTILITIES (LCU) STANDARD DETAILS ARE FROM THE (LATEST EDITION) LEE COUNTY UTILITIES DESIGN MANUAL. THESE STANDARD DETAILS WERE PREPARED BY OR AT THE DIRECTION OF LCU AND WERE FURNISHED TO JOHNSON ENGINEERING, INC.

GENERAL NOTES:

- 1. ELEVATIONS REFERENCE TO NAVD 1988. CONVERSION TO NGVD 1929 IS: NAVD 1988 (+) 1.18 = NGVD 1929.
- 2. THE GENERAL NOTES MUST BE PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS.

SIGNING AND PAVEMENT MARKING NOTES:

- 1. ALL SIGNING AND PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH FDOT STANDARD PLANS (LATEST EDITION), THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), (LATEST EDITION) AND THE CURRENT LEE COUNTY DEPARTMENT OF TRANSPORTATION REQUIREMENTS.
- 2. MATCH EXISTING PAVEMENT MARKINGS AT EXISTING ROADS.

SITE DEMOLITION:

- 1. ANY SITE DEMOLITION IS BASED ON AVAILABLE INFORMATION PROVIDED TO ENGINEER AND MAY NOT COVER ALL ASPECTS OF THE PROJECT, INCLUDING BUT NOT LIMITED TO IRRIGATION LINES/SERVICES AND ELECTRICAL SERVICES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COVER ALL EXISTING INFRASTRUCTURE TO BE REMOVED IN THEIR DEMOLITION BUDGET.

EXISTING UTILITY NOTE:

- 1. CONTRACTOR TO CONTACT "SUNSHINE 811" FOR LOCATES TWO BUSINESS DAYS BEFORE YOU DIG, 1-800-432-4770. STATE, COUNTIES, AND CITIES ARE NOT PART OF THE ONE CALL SYSTEM, THEY MUST BE CALLED INDIVIDUALLY.

LEE COUNTY UTILITIES STANDARD PLAN NOTES:

- 1. ALL WORK SHALL CONFORM TO LATEST REVISION OF THE LCU DESIGN MANUAL WHICH IS AVAILABLE ON OUR WEB-PAGE VIA THE FOLLOWING LINK: HTTPS://WWW.LEECOUNTYUTILITIES.COM/DESIGN-MANUAL.
- 2. ALL REGULATORY AND PERMITTING AGENCIES' REQUIREMENTS SHALL BE COMPLIED WITH AS WELL.

ACCESSIBILITY DESIGN GUIDELINES:

- 1. ALL ACCESSIBLE (A.K.A. ADA) COMPONENTS AND ACCESSIBLE ROUTES MUST BE CONSTRUCTED TO MEET, AT A MINIMUM THE MOST STRINGENT OF (A) THE REQUIREMENTS OF THE "AMERICANS WITH DISABILITIES ACT (ADA) CODE (42 U.S.C. § 12101 ET SEQ. AND 42 U.S.C. § 4151 ET SEQ.); AND (B) ANY APPLICABLE LOCAL AND STATE GUIDELINES, AND ANY AND ALL AMENDMENTS TO BOTH, WHICH ARE IN EFFECT AT THE TIME OF CONSTRUCTION.

PAVING, GRADING AND DRAINAGE NOTES:

- 1. THIS SITE CAN BE UTILIZED SAFELY FOR BUILDING PURPOSES WITHOUT UNDUE DANGER FROM FLOODING OR ADVERSE SOIL CONDITIONS.
- 2. LENGTH OF STORM DRAIN PIPES ARE APPROXIMATE AND ARE MEASURED FROM CENTER OF STRUCTURE.
- 3. CONTRACTOR SHALL NOTIFY THE LEE COUNTY DIVISION OF DEVELOPMENT SERVICES A MINIMUM OF 72 HOURS PRIOR TO ALL REQUIRED INSPECTIONS.

WATER LINE NOTES:

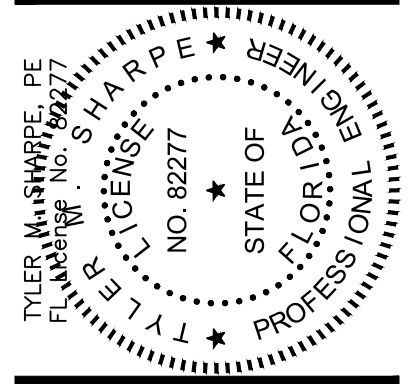
- 1. THE ENDS OF ALL CAPPED IRRIGATION AND POTABLE WATERLINES SHALL BE MARKED WITH ELECTRONIC MARKERS AND 2'X4' STAKES 5' IN LENGTH WITH 2" ABOVE GROUND.
- 2. ALL POTABLE & IRRIGATION LINES (4" OR LARGER) SHALL BE AWWA C-900, DR18, CLASS 150. ALL POTABLE & IRRIGATION LINES (SMALLER THAN 4") SHALL BE SCH80. POTABLE WATERLINES LOCATED UNDER PROPOSED PAVEMENT SHALL BE AWWA DIP C150.

SANITARY SEWER / FORCE MAIN NOTES:

- 1. ALL PIPE LENGTHS ARE APPROXIMATE AND ARE MEASURED FROM CENTER OF STRUCTURE OR FITTINGS.
- 2. ALL GRAVITY SEWER LINES SHALL BE PVC (SDR-26) UNLESS NOTED OTHERWISE.
- 3. MANHOLE TOP ELEVATIONS ARE APPROXIMATE AND SHOULD BE ADJUSTED TO FINAL PAVEMENT ELEVATION.

JOHNSON ENGINEERING

JOHNSON ENGINEERING, INC. 2122 JOHNSON STREET FORT MYERS, FLORIDA 33901 PHONE: (239) 334-0046 FAX: (239) 334-3661 E.B. #642 & L.B. #642



ZIMMER DEVELOPMENT COMPANY

INSPIRATION AT SOUTH POINTE LEE COUNTY, FLORIDA

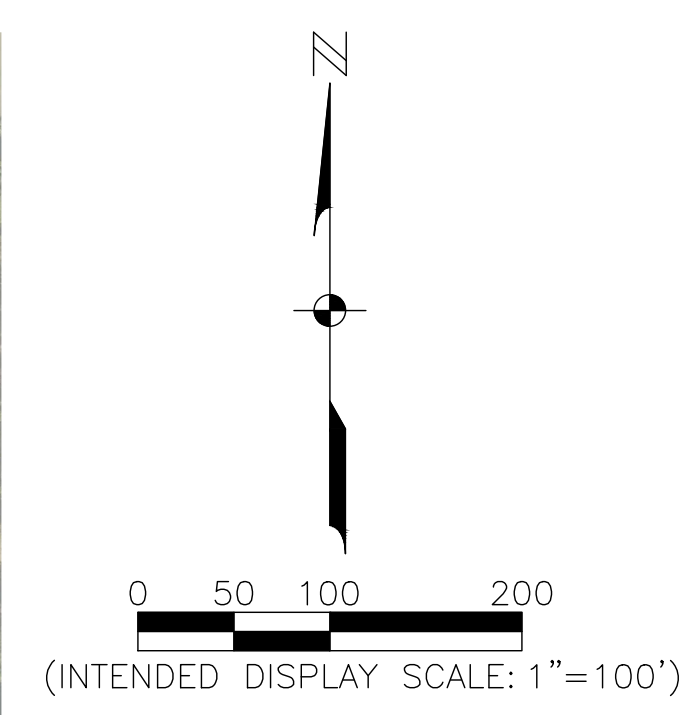
Table with columns: DATE, DESCRIPTION, NO., LEE COUNTY RAI #.

DATE: JUNE 2021 PROJECT NO. 20192125-000 FILE NO. 15-45-24 SCALE: AS SHOWN

ABBREVIATIONS, LEGEND & GENERAL NOTES

SHEET NUMBER

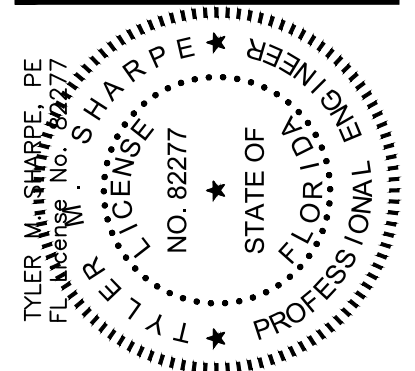
C02



NRCS Soils		
Soil ID	Description	Hydric Status
13	Boca Fine Sand	Non-Hydric
28	Immokalee Sand	Non-Hydric

NOTES:  
 1. SOILS WERE ACQUIRED FROM THE FLORIDA GEOGRAPHIC DATA LIBRARY (FGDL) AND ARE FROM THE NATURAL RESOURCES CONSERVATION SERVICE (NRCS).

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ZIMMER DEVELOPMENT COMPANY

INSPIRATION AT SOUTH POINTE  
 LEE COUNTY, FLORIDA

NO.	DESCRIPTION	DATE

DATE: JUNE 2021  
 PROJECT NO. 20192125-000  
 FILE NO. 15-45-24  
 SCALE: 1" = 100'

AERIAL & SOILS MAP

SHEET NUMBER

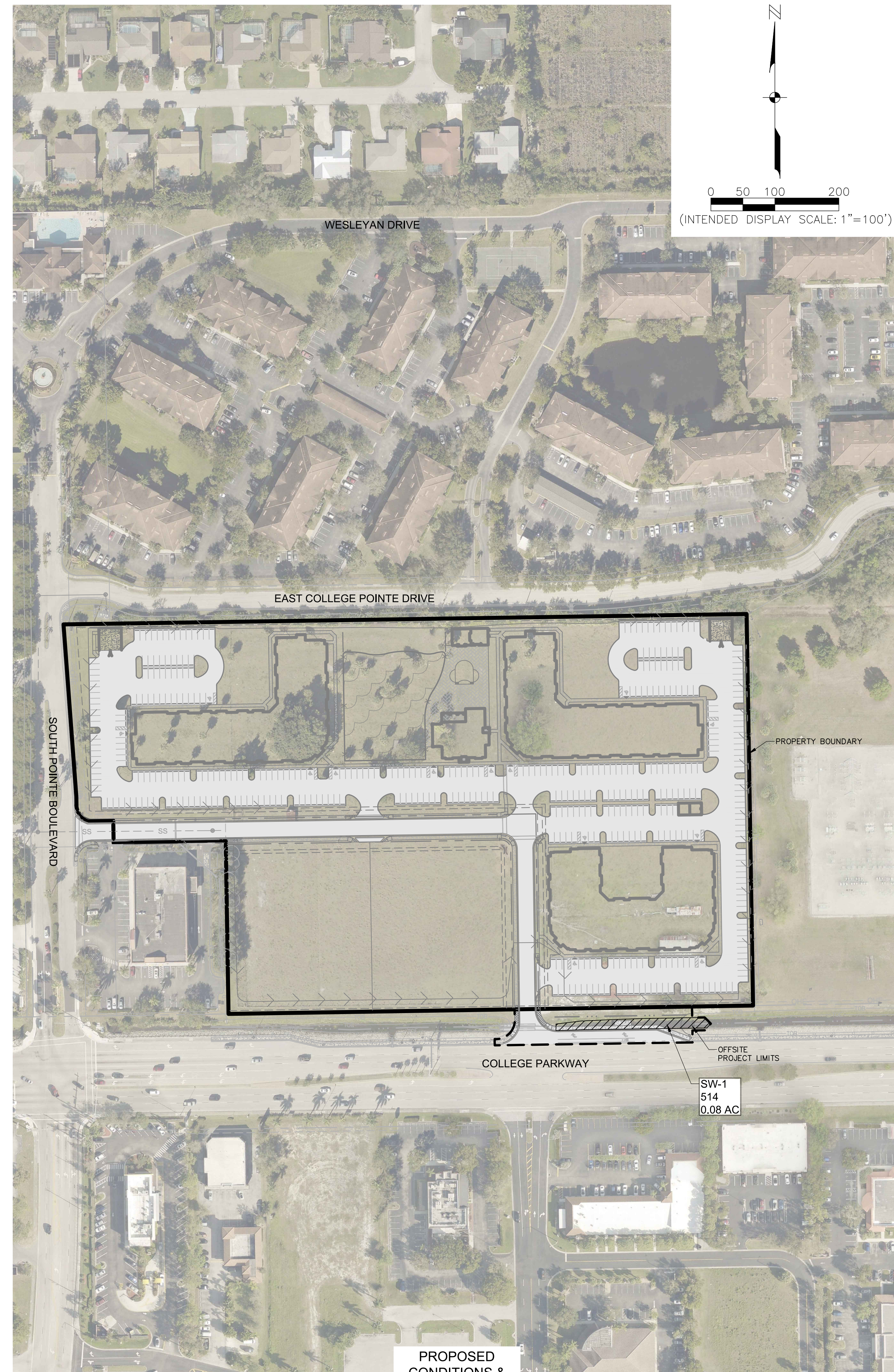
C03



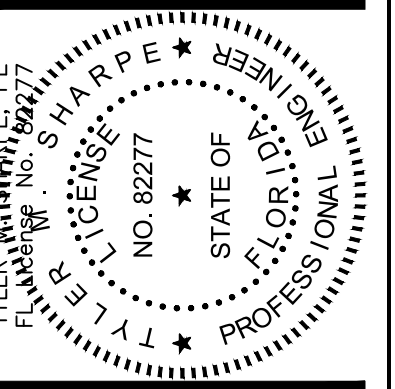
FLUCFCS TABLE			
FLUCFCS CODE	DESCRIPTION	STATUS	AREA IN ACRES
211	IMPROVED PASTURE	N	13.22
514	MAN MADE DITCH	Y	0.08
814	DRIVEWAY	N	0.43
TOTAL UPLANDS			13.65
TOTAL WETLANDS			0.00
TOTAL SURFACE WATERS			0.08
PROJECT TOTAL			13.73

- NOTES:
- HABITAT MAPPING WAS DONE IN ACCORDANCE WITH THE FLORIDA LAND USE, COVER, AND FORMS CLASSIFICATION SYSTEM (FLUCFCS, FDOT 1999) AND WAS CONDUCTED BY JOHNSON ENGINEERING ON 11/16/20.
  - THE FLUCFCS MAPPING SHOWN HAS NOT BEEN AGENCY APPROVED, IS SUBJECT TO CHANGE AND IS BASED ON AERIAL PHOTO INTERPRETATION AND GROUND TRUTHING.
  - PROTECTED SPECIES SURVEY WAS CONDUCTED BY JOHNSON ENGINEERING ECOLOGIST ON 11/16/2020.
  - ABBREVIATIONS  
N = NON-WETLAND

**PROTECTED SPECIES SURVEY & FLUCFCS MAP**



**PROPOSED CONDITIONS & IMPACTS**



ZIMMER DEVELOPMENT COMPANY

INSPIRATION AT SOUTH POINTE  
LEE COUNTY, FLORIDA

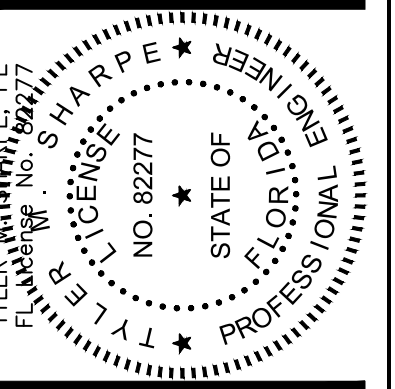
NO.	DESCRIPTION	DATE

DATE: JUNE 2021  
PROJECT NO. 20192125-000  
FILE NO. 15-45-24  
SCALE: As Shown

PROTECTED SPECIES SURVEY, FLUCFCS MAP & PR CONDITIONS & IMPACTS

SHEET NUMBER

**C04**



ZIMMER DEVELOPMENT COMPANY

INSPIRATION AT SOUTH POINTE  
LEE COUNTY, FLORIDA

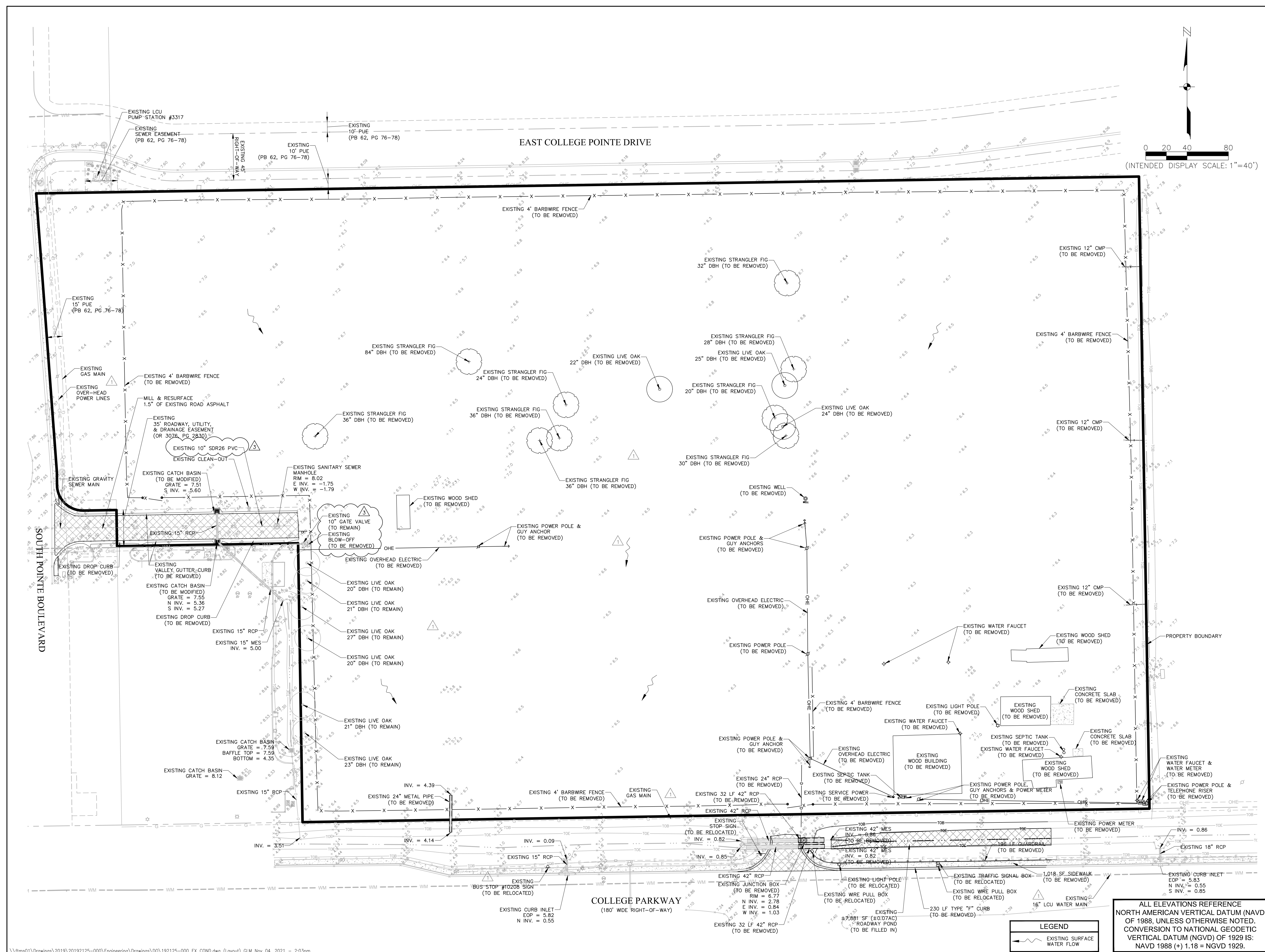
NO.	DATE	DESCRIPTION
1	07/28/21	ISSUED FOR PERMIT
2	11/05/21	REVISIONS

DATE: JUNE 2021  
PROJECT NO. 20192125-000  
FILE NO. 15-45-24  
SCALE: 1" = 40'

EXISTING CONDITIONS & DEMOLITION PLAN

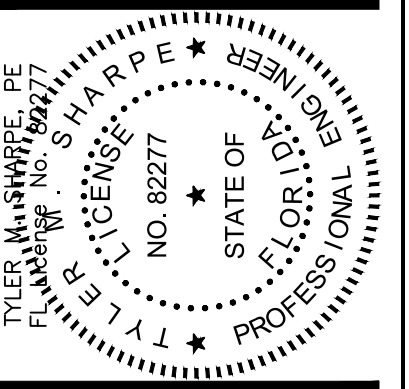
SHEET NUMBER

**C05**



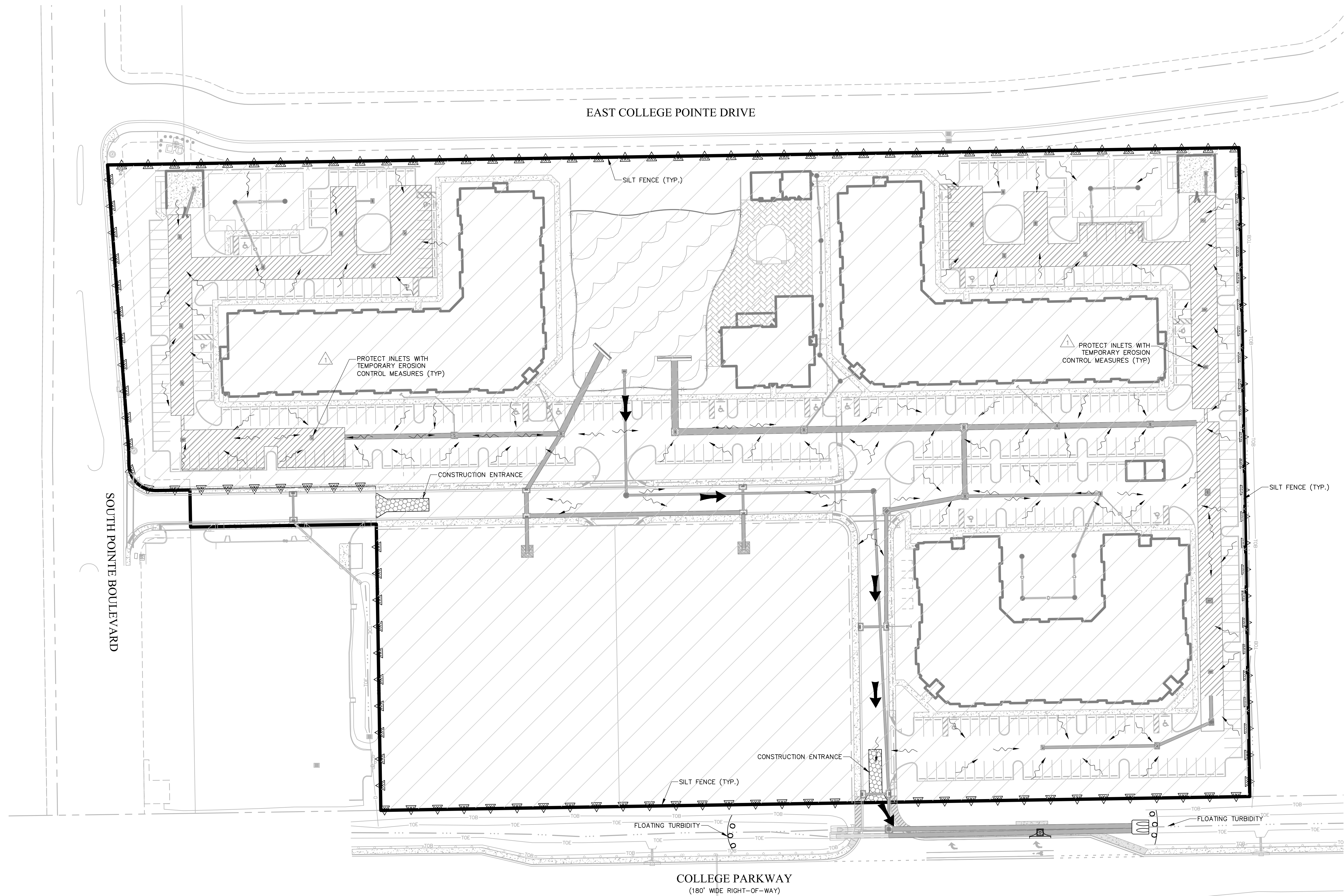
ALL ELEVATIONS REFERENCE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988, UNLESS OTHERWISE NOTED. CONVERSION TO NATIONAL GEODETIC VERTICAL DATUM (NGVD) OF 1929 IS: NAVD 1988 (+) 1.18 = NGVD 1929.

LEGEND	
	EXISTING SURFACE WATER FLOW



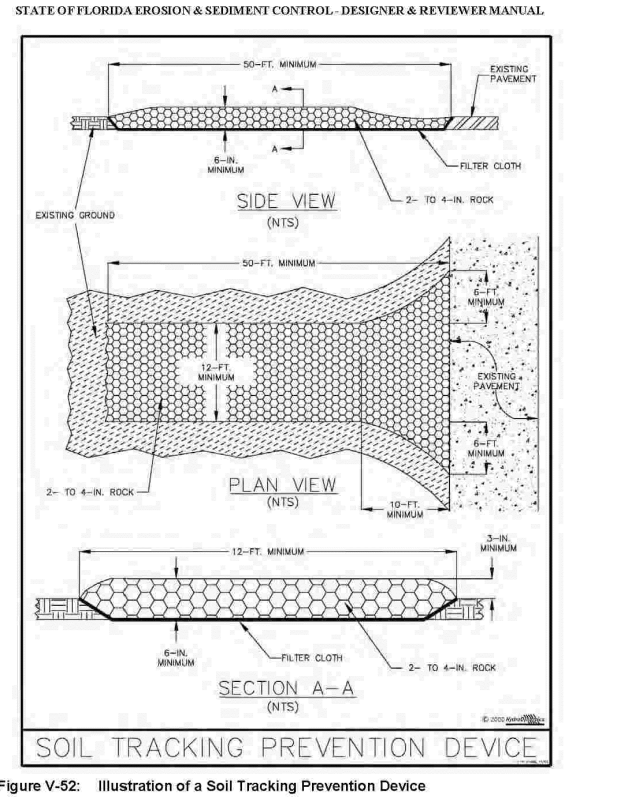
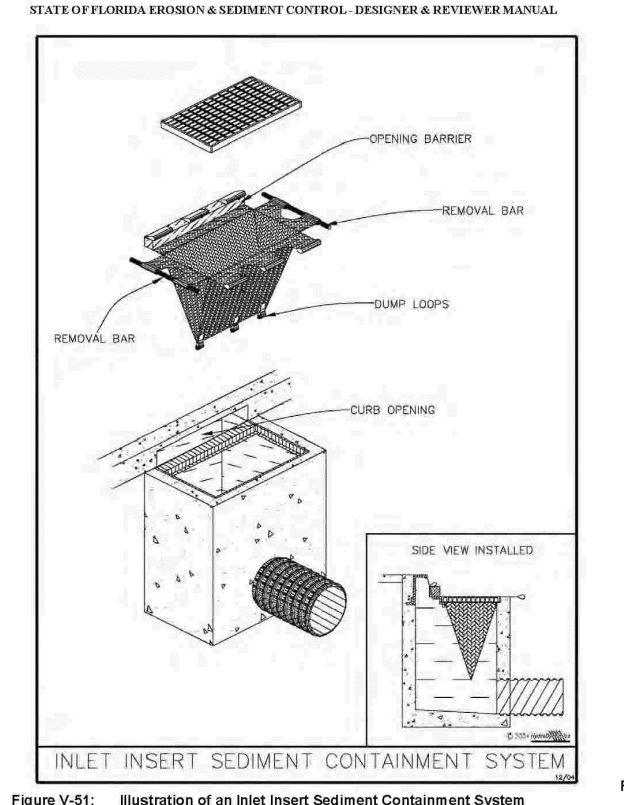
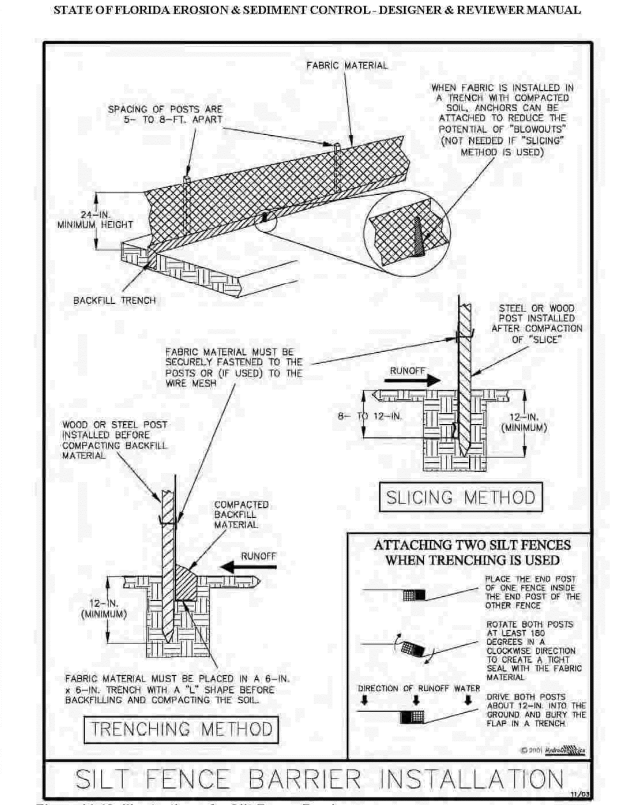
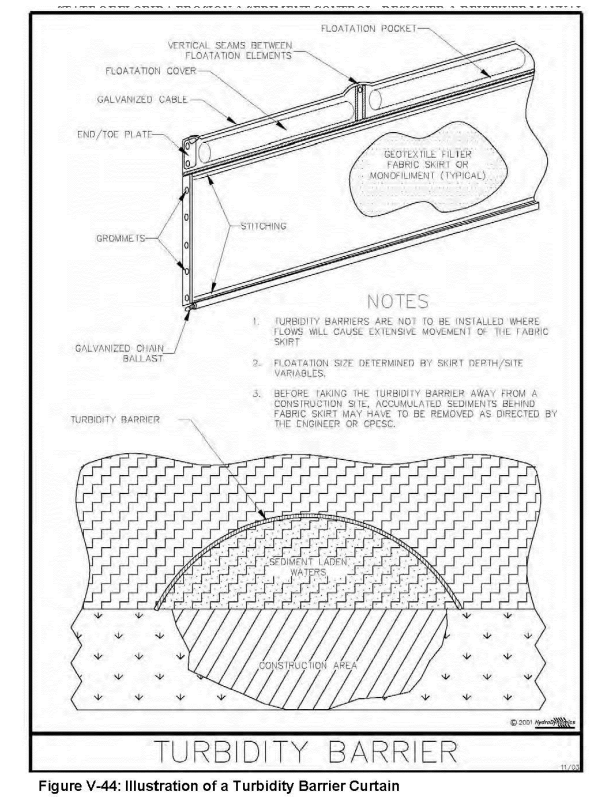
ZIMMER DEVELOPMENT COMPANY

INSPIRATION AT SOUTH POINTE  
LEE COUNTY, FLORIDA



LEGEND	
	PROPOSED SURFACE WATER FLOW
	AREA OF SOIL DISTURBANCE
	DRAINAGE STRUCTURE AND PIPING

- NOTES:
1. ALL AREAS WITHIN PROPOSED SILT FENCE MAY BE DISTURBED DURING CONSTRUCTION.
  2. ALL DRAINAGE TO BE DIRECTED TO THE POND VIA THE PROPOSED DRAINAGE INLETS/PIPES.
  3. SEE SECTIONS ON SHEETS C22 - C23 FOR ANY SLOPES AFTER MAJOR GRADING ACTIVITIES.
  4. ALL SIDE SLOPES, BERMS, AND DISTURBED AREAS WILL BE STABILIZED IMMEDIATELY ONCE CONSTRUCTED.
  5. PER SUBMITTED DEWATERING PERMIT NO OFF-SITE DISCHARGE MAY OCCUR DURING CONSTRUCTION.
  6. ALL EROSION CONTROL MEASURES SHOWN ARE RECOMMENDED AND MAY BE MODIFIED AS NEEDED BY THE CONTRACTOR DEPENDING ON SITE CONDITIONS.
  7. CONTRACTOR TO PROVIDE SILT FENCE AND OTHER APPROPRIATE MEASURES TO EFFECT THE FILTRATION OF SURFACE WATER FLOWS AND TO PROVIDE EROSION PROTECTION DURING CONSTRUCTION ACTIVITIES.
  8. PROTECTION IS TO BE MAINTAINED DURING THE CONSTRUCTION PERIOD UNTIL DISTURBED SOILS HAVE BEEN STABILIZED WITH GRASS OR SUITABLE EROSION PROTECTION TREATMENT.
  9. DURING CONSTRUCTION, GRATE INLET AND JUNCTION BOX OPENINGS SHALL BE COVERED WITH FILTER FABRIC (MIRFAL 140N OR APPROVED EQUAL) TO PREVENT DEBRIS AND FILL FROM FALLING INTO THE INLET.



THIS DRAWING CONTAINS DETAILS DESIGNED BY, STANDARD TO, AND FURNISHED BY  
FDOT & FDEP EROSION CONTROL MANUAL  
SAID DETAILS WERE NOT DESIGNED BY JOHNSON ENGINEERING.

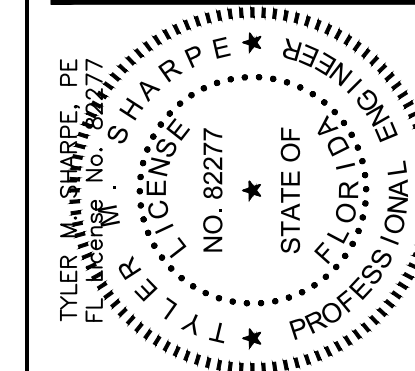
NO.	REVISIONS	DATE
1	DATE	07/28/21
2	DESCRIPTION	11/05/21
3	LEE COUNTY RAI #1	
4	LEE COUNTY RAI #2	

DATE: JUNE 2021  
PROJECT NO. 20192125-000  
FILE NO. 15-45-24  
SCALE: 1" = 50'

EROSION CONTROL PLAN

SHEET NUMBER

C06



ZIMMER DEVELOPMENT COMPANY

INSPIRATION AT SOUTH POINTE  
LEE COUNTY, FLORIDA

NO.	DATE	DESCRIPTION
1	07/28/21	11/05/21

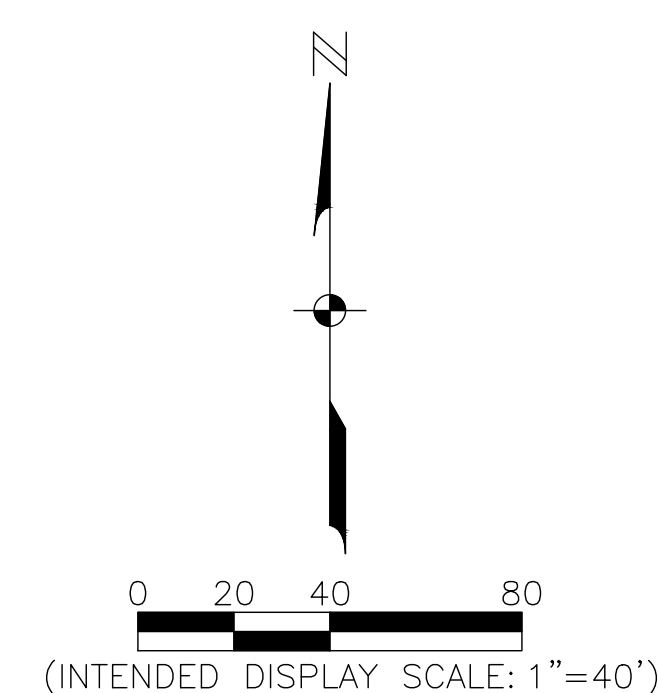
DATE: JUNE 2021  
PROJECT NO. 2019125-000  
FILE NO. 15-45-24  
SCALE: 1" = 40'

MASTER SITE PLAN

SHEET NUMBER

C07

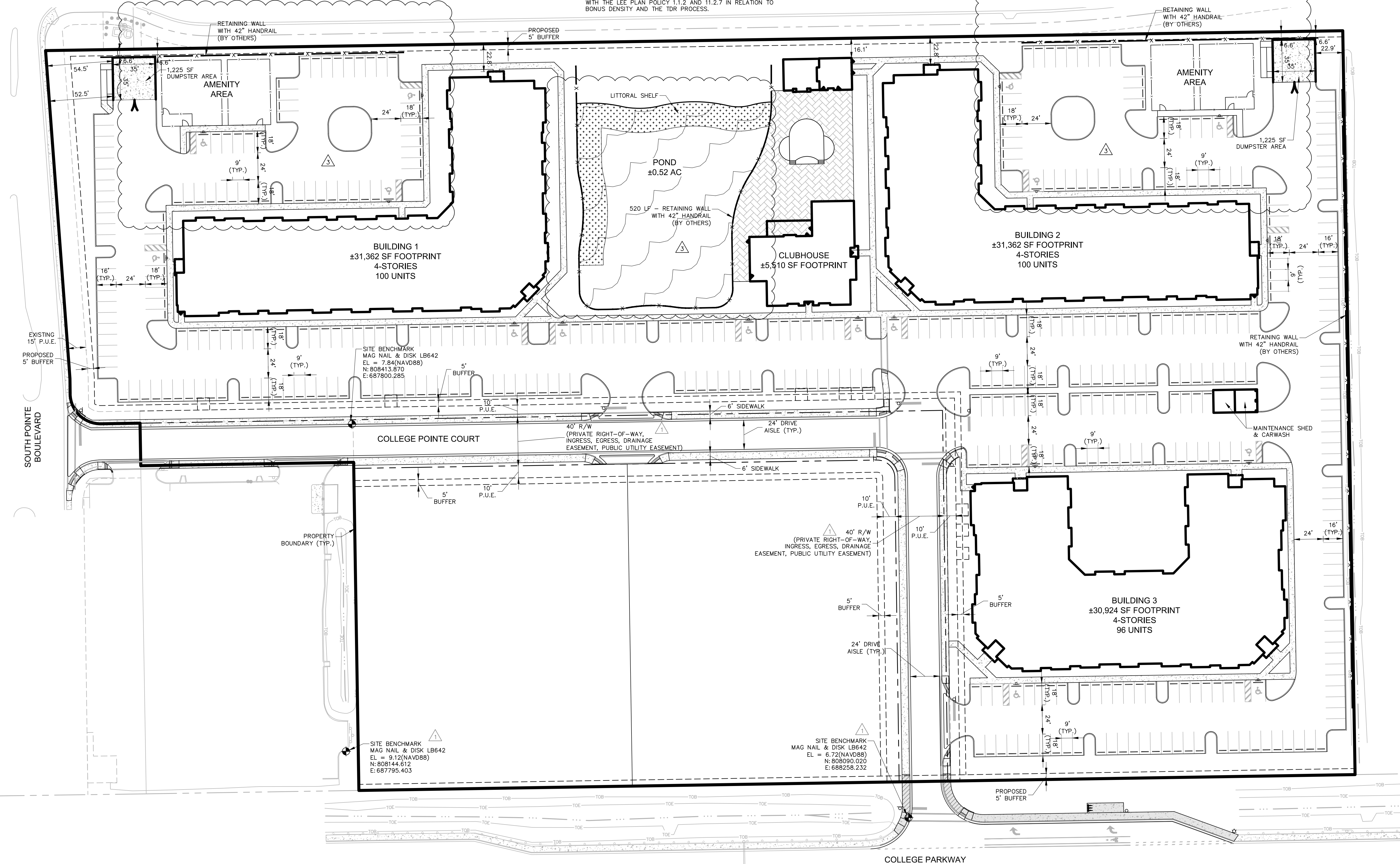
	Existing		Proposed	
	AC	%	AC	%
Building	0.18	1%	2.37	18%
Impervious (Asphalt, Sidewalk, Pool)	0.13	1%	5.09	38%
Pond	0	0%	0.52	4%
Pervious	13.04	98%	5.37	40%
<b>Total</b>	<b>13.35</b>	<b>100%</b>	<b>13.35</b>	<b>100%</b>



**APARTMENT SITE PARKING CALCULATIONS:**  
PER LEE COUNTY LDC SEC. 34-2020  
2 PARKING SPACES ARE REQUIRED PER UNIT & 4 SPACES FOR EVERY 1000 SF OF CLUBHOUSE.  
296 UNITS \* 2 SPACES PER UNIT = 592 SPACES  
5000 SF CLUBHOUSE / 1000 SF = 5 \* 4 SPACES = 20 SPACES  
VISITOR PARKING IS 10% OF TOTAL REQUIRED PARKING  
592 + 20 = 612 SPACES \* 0.10 = 62 VISITOR SPACES  
REQUIRED PARKING: 592 + 20 + 62 = 674 SPACES  
MIXED USE OVERLAY PARKING REQUIREMENTS ARE TYPICAL REQUIRED PARKING X 0.40  
674 \* .40 = 270 TOTAL REQUIRED PARKING SPACES  
1 HANDICAP SPACE IS REQUIRED FOR EVERY 25 PARKING SPACES  
REGULAR: 430  
HANDICAP: 17  
TOTAL: 447

**DENSITY CALCULATIONS:**  
FLU CATEGORY: INTENSIVE DEVELOPMENT  
BASE RESIDENTIAL DENSITY RANGE = 8 - 14 DWELLING UNITS/ACRE  
\*MAXIMUM OF 22 DU/AC WITH BONUS DENSITY  
MAX BASE RESIDENTIAL DENSITY = 13.35 AC \* 14 DU/AC = 186 UNITS  
MAX BONUS DENSITY = 13.35 AC \* 30 DU/AC = 400 UNITS  
\*PER LEE PLAN POLICY 11.2.7 DEVELOPMENT WITHIN MIXED USE OVERLAY MAY USE NON-RESIDENTIAL AREA IN RESIDENTIAL DENSITY CALCULATIONS.  
**LANDSCAPE BUFFERS:**  
NORTH - 5' BUFFER  
SOUTH - 5' BUFFER  
EAST - NOT REQUIRED  
WEST - 5' BUFFER  
**SETBACK REQUIREMENTS:**  
NORTH - 0'  
EAST - 0'  
SOUTH - 0'  
WEST - 0'  
LAKE (EXCAVATION) - 25' PER LC LDC CH329(d)(1)(a1)  
BUILDING TO POND - 25' PER LDC SEC34-2194(b)

**OPEN SPACE CALCULATIONS:**  
PER LEE COUNTY LDC SEC. 10-425  
LARGE PROJECTS WITHIN THE MIXED USE OVERLAY REQUIRE A MINIMUM OF 20% OPEN SPACE & SMALL PROJECTS REQUIRE A MINIMUM OF 10% OPEN SPACE.  
**SOLID WASTE CALCULATIONS:**  
PER LEE COUNTY LDC SEC. 10-261  
MULTIFAMILY DEVELOPMENTS WITH 25 OR MORE DWELLING UNITS SHALL HAVE 216 SF FOR FIRST 25 UNITS PLUS 8 SF FOR EACH ADDITIONAL DWELLING UNIT.  
296 UNITS - 25 UNITS = 271 UNITS  
271 UNITS \* 8 SF/UNIT = 2,168 SF  
216 SF + 2,168 SF = 2,384 SF  
2,384 SF OF SOLID WASTE AREA REQUIRED  
**LEE PLAN CONSISTENCY STATEMENT:**  
THE SUBJECT PROPERTY IS DESIGNATED INTENSIVE DEVELOPMENT ON THE LEE COUNTY COMPREHENSIVE PLAN AND IS WITHIN THE SOUTH FORT MYERS MIXED OVERLAY. THESE ARE CENTRALLY LOCATED POTENTIAL AREAS FOR HIGHER DENSITY RESIDENTIAL AND INTENSE COMMERCIAL DEVELOPMENT. THE PROPOSED PROJECT IS CONSISTENT WITH THE LEE PLAN POLICY 11.2 AND 11.2.7 IN RELATION TO BONUS DENSITY AND THE TDR PROCESS.

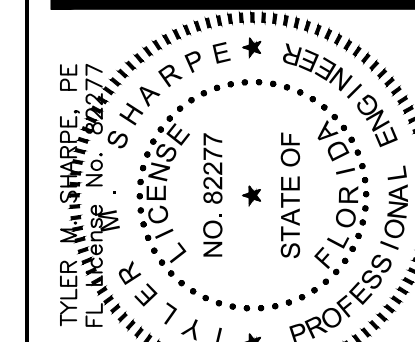












ZIMMER DEVELOPMENT COMPANY

INSPIRATION AT SOUTH POINTE  
LEE COUNTY, FLORIDA

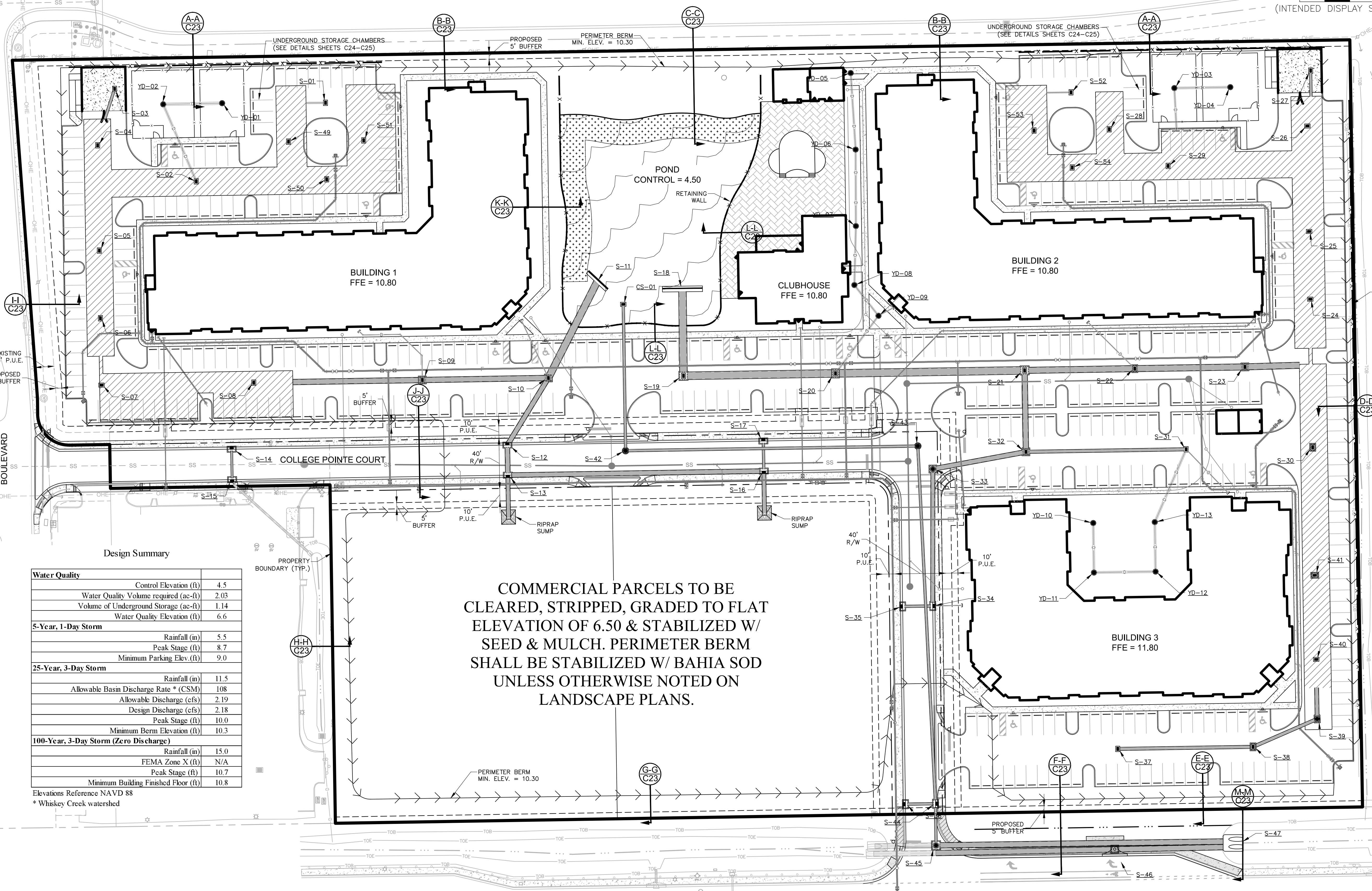
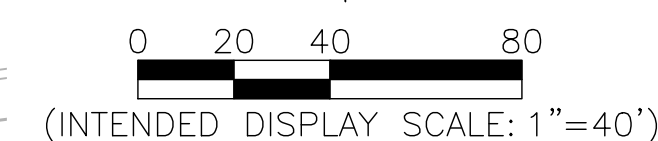
NO.	REVISIONS DESCRIPTION	DATE

DATE: JUNE 2021  
PROJECT NO. 20192125-000  
FILE NO. 15-45-24  
SCALE: 1" = 40'

MASTER PAVING,  
GRADING &  
DRAINAGE PLAN

SHEET NUMBER

**C11**



**Design Summary**

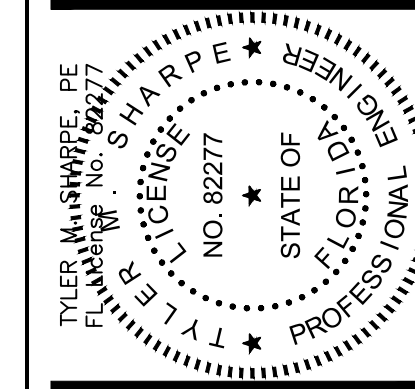
Water Quality	
Control Elevation (ft)	4.5
Water Quality Volume required (ac-ft)	2.03
Volume of Underground Storage (ac-ft)	1.14
Water Quality Elevation (ft)	6.6
5-Year, 1-Day Storm	
Rainfall (in)	5.5
Peak Stage (ft)	8.7
Minimum Parking Elev. (ft)	9.0
25-Year, 3-Day Storm	
Rainfall (in)	11.5
Allowable Basin Discharge Rate * (CSM)	108
Allowable Discharge (cfs)	2.19
Design Discharge (cfs)	2.18
Peak Stage (ft)	10.0
Minimum Berm Elevation (ft)	10.3
100-Year, 3-Day Storm (Zero Discharge)	
Rainfall (in)	15.0
FEMA Zone X (ft)	N/A
Peak Stage (ft)	10.7
Minimum Building Finished Floor (ft)	10.8

Elevations Reference NAVD 88  
\* Whiskey Creek watershed

COMMERCIAL PARCELS TO BE  
CLEARED, STRIPPED, GRADED TO FLAT  
ELEVATION OF 6.50 & STABILIZED W/  
SEED & MULCH. PERIMETER BERM  
SHALL BE STABILIZED W/ BAHIA SOD  
UNLESS OTHERWISE NOTED ON  
LANDSCAPE PLANS.

ALL ELEVATIONS REFERENCE  
NORTH AMERICAN VERTICAL DATUM (NAVD)  
OF 1988, UNLESS OTHERWISE NOTED.  
CONVERSION TO NATIONAL GEODETIC  
VERTICAL DATUM (NGVD) OF 1929 IS:  
NAVD 1988 (+) 1.18 = NGVD 1929.

DESIGN ELEVATION TABLE (NAVD88)	
Control	4.50
Minimum Road	9.00
Minimum Perimeter Berm	10.30
Minimum Finished Floor	10.80



ZIMMER DEVELOPMENT COMPANY

INSPIRATION AT SOUTH POINTE  
LEE COUNTY, FLORIDA

**DRAINAGE STRUCTURES TABLE**

S-01 TYPE C INLET GRATE = 9.30 INV. (W) = 6.94	S-11 54" HEADWALL INV. (SW) = -4.75
S-02 TYPE C INLET GRATE = 9.00 INV. (NW) = 4.90	S-12 TYPE 9 CURB INLET EOP = 9.00 INV. (S) = 2.50 INV. (NE) = 2.50
S-03 TYPE C INLET GRATE = 9.47 INV. (S) = 4.70	S-13 TYPE 9 CURB INLET EOP = 9.00 INV. (E) = 2.60 INV. (N) = 2.60 INV. (S) = 1.40
S-04 TYPE C INLET GRATE = 9.28	S-14 TYPE 9 CURB INLET EOP = 8.56 INV. (S) = 5.60
S-05 TYPE C INLET GRATE = 9.00	S-15 TYPE 9 CURB INLET EOP = 8.32 INV. (N) = 5.36 INV. (SE) = 5.27
S-06 TYPE C INLET GRATE = 9.00	S-16 60" ENDWALL INV. (S) = -4.75
S-07 TYPE C INLET GRATE = 9.00	S-17 TYPE C INLET GRATE = 9.25 INV. (N) = -2.30 INV. (E) = -2.30
S-08 TYPE C INLET GRATE = 9.00	S-18 JUNCTION BOX RIM = 9.82 INV. (N) = 1.50 INV. (E) = -1.44
S-09 TYPE C INLET GRATE = 9.00 INV. (N) = 3.23 INV. (E) = 2.10 INV. (W) = -0.84	S-19 TYPE C INLET GRATE = 9.30
S-10 TYPE C INLET GRATE = 9.33 INV. (W) = 2.20 INV. (SW) = 2.40 INV. (NW) = 7.53 INV. (NE) = -1.22	S-42 TYPE C INLET GRATE = 9.30
S-11 TYPE C INLET GRATE = 9.30	S-49 TYPE C INLET GRATE = 9.30
S-12 TYPE C INLET GRATE = 9.00	S-50 TYPE C INLET GRATE = 9.30
S-13 TYPE C INLET GRATE = 9.00	YD-01 YARD DRAIN GRATE = 9.60 INV. (W) = 4.70
S-14 TYPE C INLET GRATE = 9.00	YD-02 YARD DRAIN GRATE = 9.60 INV. (SE) = 4.90 INV. (E) = 4.70

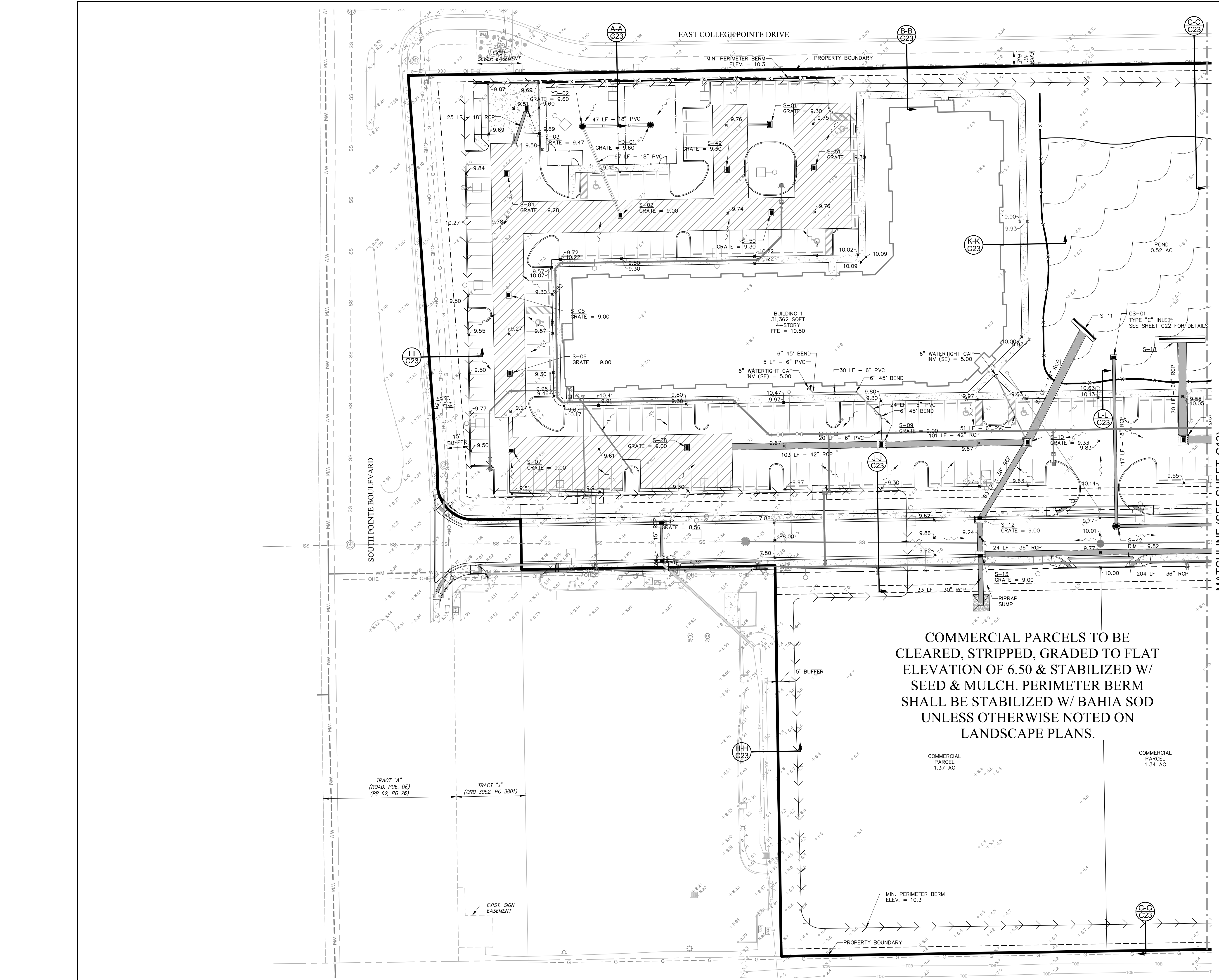
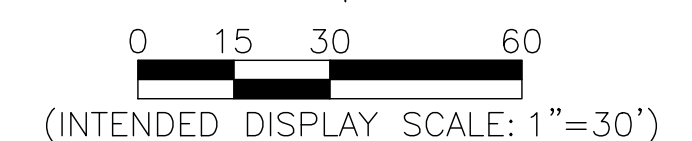
DESIGN ELEVATION TABLE (NAVD88)

Control	4.50
Minimum Road	9.00
Minimum Perimeter Berm	10.30
Minimum Finished Floor	10.80

LEGEND

	EXISTING GRADE
	PROPOSED GRADE
	CONCRETE SIDEWALK
	PAVEMENT
	POND
	UNDERGROUND STORAGE CHAMBER AREA

ALL ELEVATIONS REFERENCE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988, UNLESS OTHERWISE NOTED. CONVERSION TO NATIONAL GEODETIC VERTICAL DATUM (NGVD) OF 1929 IS: NAVD 1988 (+) 1.18 = NGVD 1929.



COMMERCIAL PARCELS TO BE  
CLEARED, STRIPPED, GRADED TO FLAT  
ELEVATION OF 6.50 & STABILIZED W/  
SEED & MULCH. PERIMETER BERM  
SHALL BE STABILIZED W/ BAHIA SOD  
UNLESS OTHERWISE NOTED ON  
LANDSCAPE PLANS.

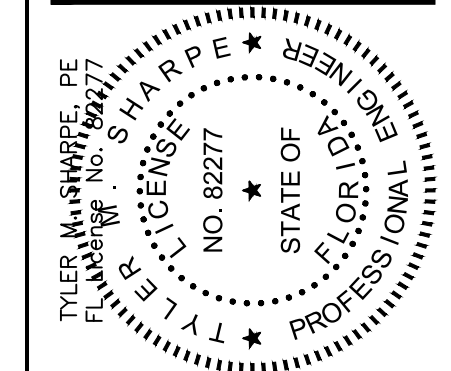
REVISIONS

NO.	DATE	DESCRIPTION
1	07/28/21	LEE COUNTY RAI #1
2	09/09/21	ERP DETAILS CLARIFICATION
3	11/05/21	LEE COUNTY RAI #2

DATE: JUNE 2021  
PROJECT NO. 2019125-000  
FILE NO. 15-45-24  
SCALE: 1" = 30'

PAVING, GRADING & DRAINAGE PLAN

SHEET NUMBER  
**C12**



ZIMMER DEVELOPMENT COMPANY

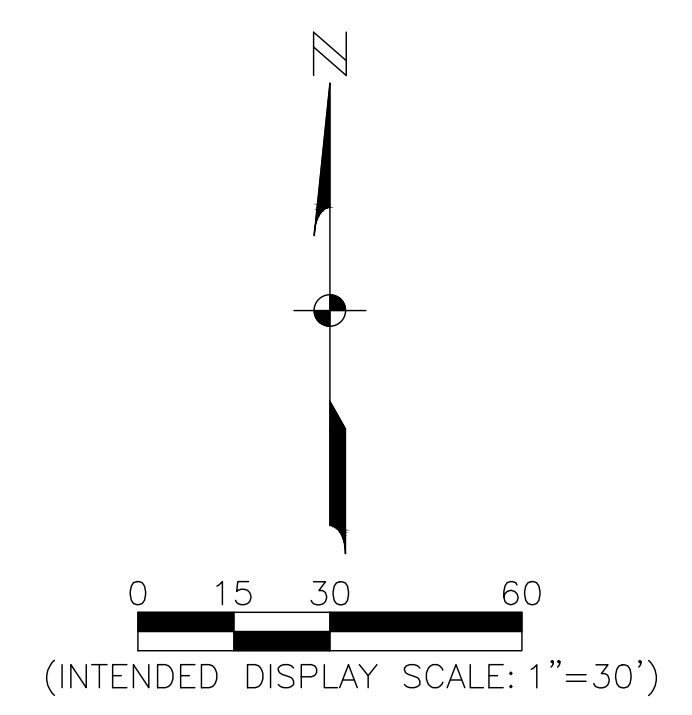
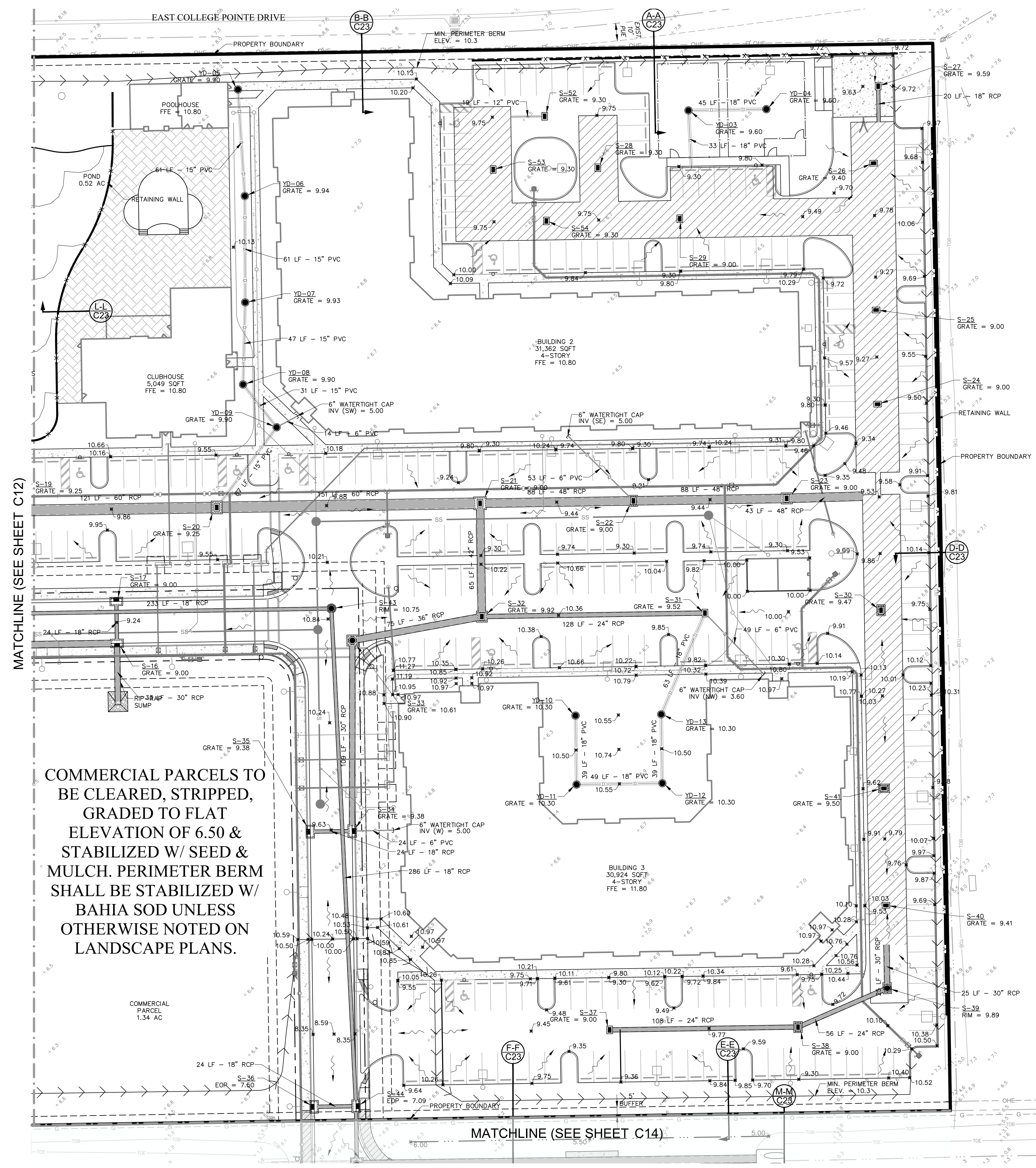
INSPIRATION AT SOUTH POINTE  
 LEE COUNTY, FLORIDA

DATE	DESCRIPTION
07/28/21	
11/05/21	

REVISIONS  
 NO. DATE DESCRIPTION  
 1. 11/05/21 LEE COUNTY RAI #1  
 2. 11/05/21 LEE COUNTY RAI #2

DATE: JUNE 2021  
 PROJECT NO. 2019125-000  
 FILE NO. 15-45-24  
 SCALE: 1" = 30'

PAVING, GRADING & DRAINAGE PLAN  
 SHEET NUMBER  
**C13**



**DRAINAGE STRUCTURES TABLE**

S-16 TYPE 9 CURB INLET EOP = 9.00 INV. (N) = 4.10 INV. (W) = 2.60 INV. (S) = 1.40	S-38 TYPE C INLET GRATE = 9.00 INV. (W) = 3.70 INV. (NE) = 1.53	YD-10 YARD DRAIN GRATE = 10.30 INV. (S) = 4.75
S-17 TYPE 9 CURB INLET EOP = 9.00 INV. (S) = 4.20	S-39 JUNCTION BOX RM = 9.89 INV. (SW) = 1.53 INV. (N) = 3.60	YD-11 YARD DRAIN GRATE = 10.30 INV. (N) = 4.65 INV. (E) = 4.65
S-20 TYPE C INLET GRATE = 9.25 INV. (W) = -2.40 INV. (NE) = 2.40 INV. (E) = -6.15	S-40 TYPE C INLET GRATE = 9.41	YD-12 YARD DRAIN GRATE = 10.30 INV. (W) = 4.55 INV. (N) = 4.55
S-21 TYPE C INLET GRATE = 9.00 INV. (W) = -6.15 INV. (S) = -4.05 INV. (E) = -1.34	S-41 TYPE C INLET GRATE = 9.50	YD-13 YARD DRAIN GRATE = 10.30 INV. (S) = 4.45 INV. (NE) = 4.45
S-22 TYPE C INLET GRATE = 9.00 INV. (W) = -1.34 INV. (S) = 4.20 INV. (E) = -0.70	S-43 JUNCTION BOX RM = 10.75 INV. (W) = -1.44 INV. (S) = 0.60	
S-23 TYPE C INLET GRATE = 9.00 INV. (W) = -0.70 INV. (E) = 1.55	S-44 TYPE 9 CURB INLET EOP = 7.09 INV. (N) = 0.60 INV. (W) = 4.20 INV. (S) = 4.10	
S-24 TYPE C INLET GRATE = 9.00	S-45 JUNCTION BOX RM = 6.38 INV. (N) = 3.85 INV. (E) = 0.83 INV. (W) = 0.83	
S-25 TYPE C INLET GRATE = 9.00	S-46 EOP CURB INLET GRATE = 6.70 INV. (E) = 0.58 INV. (W) = 0.08	
S-26 TYPE C INLET GRATE = 9.40	S-47 DOUBLE 42" M.E.S. GRATE = 4.36 INV. (W) = 0.00	
S-27 TYPE C INLET GRATE = 9.59 INV. (S) = 4.80	S-48 42" M.E.S. GRATE = 4.36 INV. (W) = 0.40	
S-28 TYPE C INLET GRATE = 9.30	S-52 TYPE C INLET GRATE = 9.30 INV. (W) = 6.29	
S-29 TYPE C INLET GRATE = 9.00	S-53 TYPE C INLET GRATE = 9.30	
S-30 TYPE C INLET GRATE = 9.47	S-54 TYPE C INLET GRATE = 9.30	
S-31 TYPE C INLET GRATE = 9.52 INV. (SE) = 3.10 INV. (W) = 4.45 INV. (N) = 3.00	YD-03 YARD DRAIN GRATE = 9.60 INV. (E) = 4.30 INV. (S) = 5.77	
S-32 TYPE C INLET GRATE = 9.92 INV. (W) = 2.60 INV. (E) = 2.90 INV. (N) = -4.05	YD-04 YARD DRAIN GRATE = 9.60 INV. (W) = 4.40 INV. (N) = -4.05	
RIM JUNCTION BOX GRATE = 10.61 INV. (S) = -0.45 INV. (E) = 2.65	YD-05 YARD DRAIN GRATE = 9.90 INV. (S) = 5.40	
EOP TYPE 9 CURB INLET GRATE = 9.38 INV. (W) = 4.20 INV. (E) = 4.80 INV. (N) = 0.64	YD-06 YARD DRAIN GRATE = 9.94 INV. (N) = 5.30 INV. (S) = 5.30	
S-35 TYPE 9 CURB INLET GRATE = 9.38 INV. (E) = 4.25	YD-07 YARD DRAIN GRATE = 9.93 INV. (N) = 5.20 INV. (S) = 5.20	
S-36 TYPE 9 CURB INLET GRATE = 7.50 INV. (SE) = 2.70	YD-08 YARD DRAIN GRATE = 9.90 INV. (N) = 5.10 INV. (SE) = 2.70	
S-37 TYPE C INLET GRATE = 9.00 INV. (E) = 3.75	YD-09 YARD DRAIN GRATE = 9.90 INV. (NW) = 2.50 INV. (NE) = 4.90 INV. (SW) = 2.50	

MATCHLINE (SEE SHEET C12)

MATCHLINE (SEE SHEET C14)

COMMERCIAL PARCELS TO BE CLEARED, STRIPPED, GRADED TO FLAT ELEVATION OF 6.50 & STABILIZED W/ SEED & MULCH. PERIMETER BERM SHALL BE STABILIZED W/ BAHIA SOD UNLESS OTHERWISE NOTED ON LANDSCAPE PLANS.

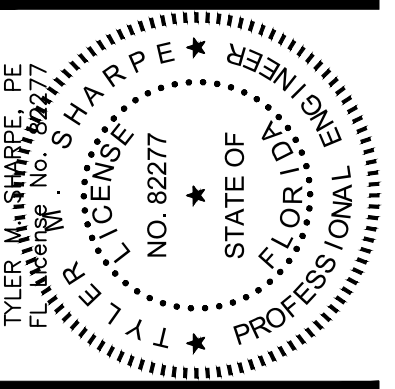
ALL ELEVATIONS REFERENCE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988, UNLESS OTHERWISE NOTED. CONVERSION TO NATIONAL GEODETIC VERTICAL DATUM (NGVD) OF 1929 IS: NAVD 1988 (+) 1.18 = NGVD 1929.

DESIGN ELEVATION TABLE (NAVD88)

Control	4.50
Minimum Road	9.00
Minimum Perimeter Berm	10.30
Minimum Finished Floor	10.80

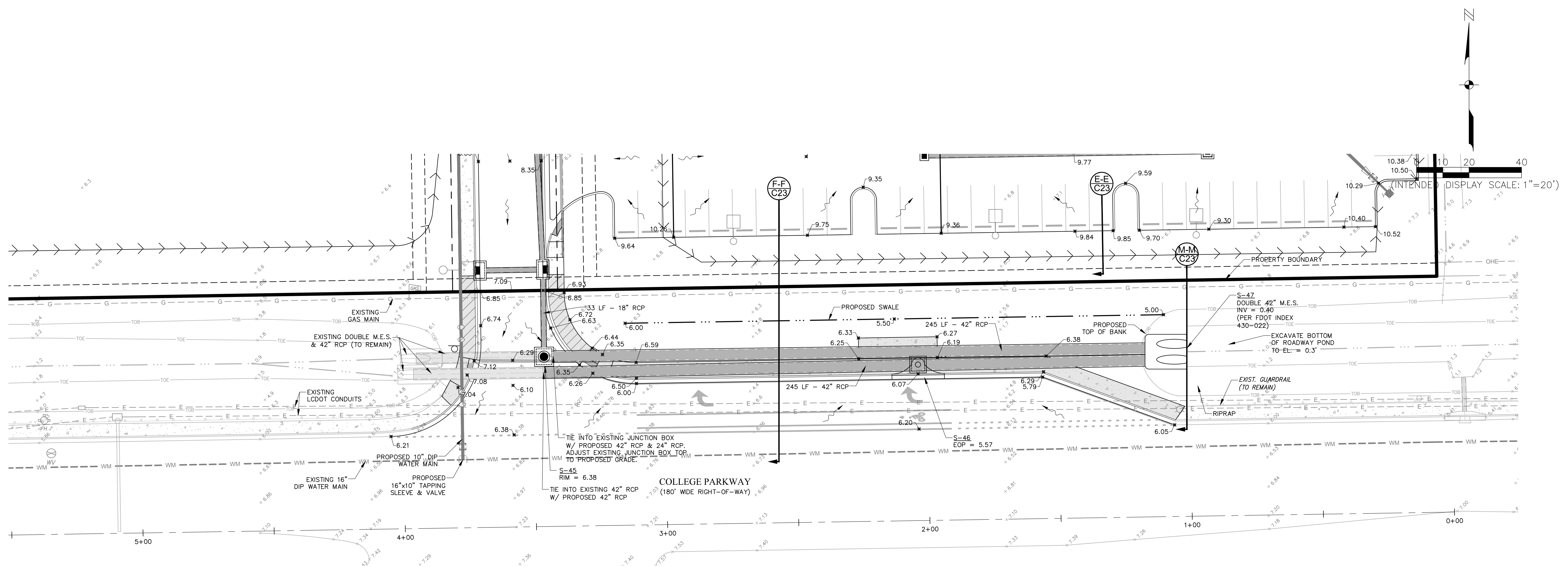
LEGEND

	EXISTING GRADE
	PROPOSED GRADE
	CONCRETE SIDEWALK
	PAVEMENT
	POND
	UNDERGROUND STORAGE CHAMBER AREA



ZIMMER DEVELOPMENT COMPANY

INSPIRATION AT SOUTH POINTE  
LEE COUNTY, FLORIDA



**DRAINAGE STRUCTURES TABLE**

<b>S-45</b>	EXISTING JUNCTION BOX (TO BE MODIFIED)
RIM	= 6.38
INV. (N)	= 3.85
INV. (E)	= 0.83
INV. (W)	= 0.83
<b>S-46</b>	TYPE 2 CURB INLET
EOP	= 6.70
INV. (E)	= 0.58
INV. (W)	= 0.58
<b>S-47</b>	DOUBLE 42" M.E.S.
INV. (W)	= 0.40

- NOTES:
- CONTRACTOR TO REPAVE COLLEGE PARKWAY W/ TURN LANE PAVEMENT SECTION (SHEET C10) FOR WATER MAIN HOT TAP REHAB. CONTRACTOR SHALL ALSO MILL & RESURFACE COLLEGE PARKWAY AS DIRECTED BY LCDOT. CONTRACTOR SHALL BUDGET FOR 650 SY OF NIGHT TIME MILL & RESURFACE 1 1/2" SP-12.5 W/ MOT TO COVER THIS ITEM & LIST AS CONTINGENCY TO OWNER.
  - CONTRACTOR SHALL PROTECT EXISTING LCDOT CONDUITS DURING CONSTRUCTION & COORDINATE W/ LCDOT IF IT APPEARS THESE CONDUITS WILL NEED TO BE RELOCATED.

**LEGEND**

	EXISTING GRADE
	PROPOSED GRADE
	CONCRETE SIDEWALK
	PAVEMENT
	POND
	UNDERGROUND STORAGE CHAMBER AREA

ALL ELEVATIONS REFERENCE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988, UNLESS OTHERWISE NOTED. CONVERSION TO NATIONAL GEODETIC VERTICAL DATUM (NGVD) OF 1929 IS: NAVD 1988 (+) 1.18 = NGVD 1929.

**REVISIONS**

NO.	DESCRIPTION	DATE
1	LEE COUNTY RAI #1	07/28/21
2	LEE COUNTY RAI #2	11/05/21

DATE: JUNE 2021  
PROJECT NO. 2019125-000  
FILE NO. 15-45-24  
SCALE: 1" = 30'

COLLEGE PARKWAY PAVING, GRADING, DRAINAGE & UTILITY PLAN

SHEET NUMBER  
**C14**

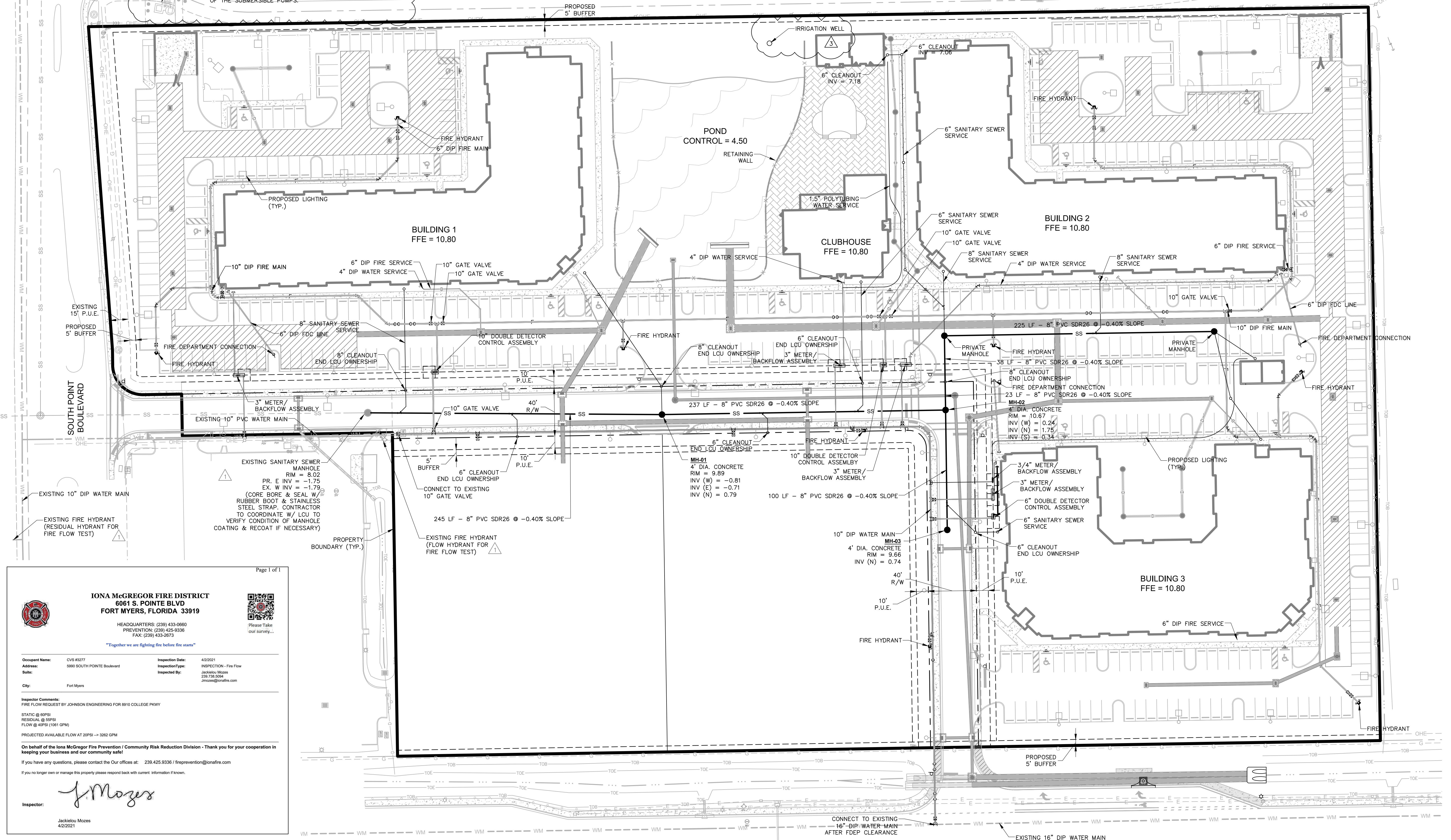
# FIRE FLOW REQUIREMENTS

- PER NFPA TABLE 18.4.5.1.2, A 125,249 SF BUILDING (BUILDINGS 1 & 2) OF TYPE V-A CONSTRUCTION REQUIRES 6,250 GPM FOR 4 HOURS. A 75% REDUCTION IS ALLOWED FOR FIRE SPRINKLERS OR 1000 GPM MINIMUM, THEREFORE 1,563 GPM FOR 4 HOURS IS REQUIRED SINCE 6,250 GPM X 0.25 = 1,563 GPM.
- PER NFPA TABLE 18.4.5.1.2, A 123,089 SF BUILDING (BUILDING 3) OF TYPE V-A CONSTRUCTION REQUIRES 6,250 GPM FOR 4 HOURS. A 75% REDUCTION IS ALLOWED FOR FIRE SPRINKLERS OR 1000 GPM MINIMUM, THEREFORE 1,563 GPM FOR 4 HOURS IS REQUIRED SINCE 6,250 GPM X 0.25 = 1,563 GPM.
- PER NFPA TABLE 18.4.5.1.2, A 5,049 SF BUILDING (CLUBHOUSE) OF TYPE V-A CONSTRUCTION REQUIRES 1,500 GPM FOR 2 HOURS. A 75% REDUCTION IS ALLOWED FOR FIRE SPRINKLERS OR 1000 GPM MINIMUM, THEREFORE 1,000 GPM FOR 2 HOURS IS REQUIRED SINCE 1,500 GPM X 0.25 = 375 GPM.

NOTES:  
1. PROPOSED METHOD OF IRRIGATION SHALL BE A WELL.

0 20 40 80  
(INTENDED DISPLAY SCALE: 1"=40')

LCU WASTEWATER PUMP STATION #3317  
REPLACE EXISTING TWO (2) SUBMERSIBLE WASTEWATER PUMPS WITH FLYGT NP-3127-HT-ADAPTIVE 485 IMP-10 HP 230V 3 PHASE (SEE SHEET C22 FOR DETAILS)  
CONTRACTOR SHALL PROVIDE BYPASS PUMPING WHILE PUMP STATION IS OFF LINE. WASTEWATER SERVICE SHALL BE MAINTAINED DURING ALL MODIFICATIONS TO THE PUMP STATION.  
COORDINATE WITH LCU WASTEWATER OPERATIONS STAFF PRIOR TO TAKING THE PUMP STATION OFF LINE.  
CONTRACTOR SHALL PROVIDE A MANUFACTURERS PUMP STARTUP OF THE SUBMERSIBLE PUMPS.



**IONA Mcgregor FIRE DISTRICT**  
6061 S. POINTE BLVD  
FORT MYERS, FLORIDA 33919

HEADQUARTERS: (239) 433-0860  
PREVENTION: (239) 425-9336  
FAX: (239) 433-2673

"Together we are fighting fire before fire starts"

Occupant Name: CVS #3277  
Address: 5990 SOUTH POINTE Boulevard  
City: Fort Myers

Inspection Date: 4/2/2021  
Inspection Type: INSPECTION - Fire Flow  
Inspector: Jackie Mozes  
239.738.5054  
jmozes@ionafire.com

Inspector Comments:  
FIRE FLOW REQUEST BY JOHNSON ENGINEERING FOR 8910 COLLEGE PKWY  
STATIC @ 60PSI  
RESIDUAL @ 50PSI  
FLOW @ 40PSI (1061 GPM)  
PROJECTED AVAILABLE FLOW AT 20PSI -> 3262 GPM

On behalf of the Iona Mcgregor Fire Prevention / Community Risk Reduction Division - Thank you for your cooperation in keeping your business and our community safe!

If you have any questions, please contact the Our offices at: 239.425.9336 / fireprevention@ionafire.com

If you no longer own or manage this property please respond back with current information if known.

Inspector: *J. Mozes*  
Jackie Mozes  
4/2/2021

**JOHNSON ENGINEERING**

JOHNSON ENGINEERING, INC.  
2122 JOHNSON STREET  
FORT MYERS, FLORIDA 33901  
PHONE: (239) 334-0046  
FAX: (239) 334-3661  
E.B. #642 & L.B. #642

Professional Engineer Seal: Tyler Mozes, PE, License No. 68947, State of Florida, Professional Engineer.

ZIMMER DEVELOPMENT COMPANY

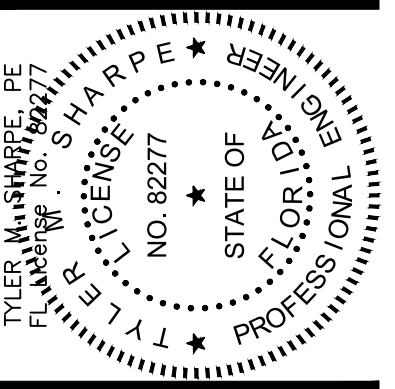
INSPIRATION AT SOUTH POINTE  
LEE COUNTY, FLORIDA

NO.	DATE	DESCRIPTION
1	07/28/21	ISSUED FOR PERMIT
2	11/05/21	REVISED

DATE: JUNE 2021  
PROJECT NO. 20192125-000  
FILE NO. 15-45-24  
SCALE: 1" = 40'

MASTER UTILITY PLAN

SHEET NUMBER  
**C15**



ZIMMER DEVELOPMENT COMPANY

INSPIRATION AT SOUTH POINTE  
LEE COUNTY, FLORIDA

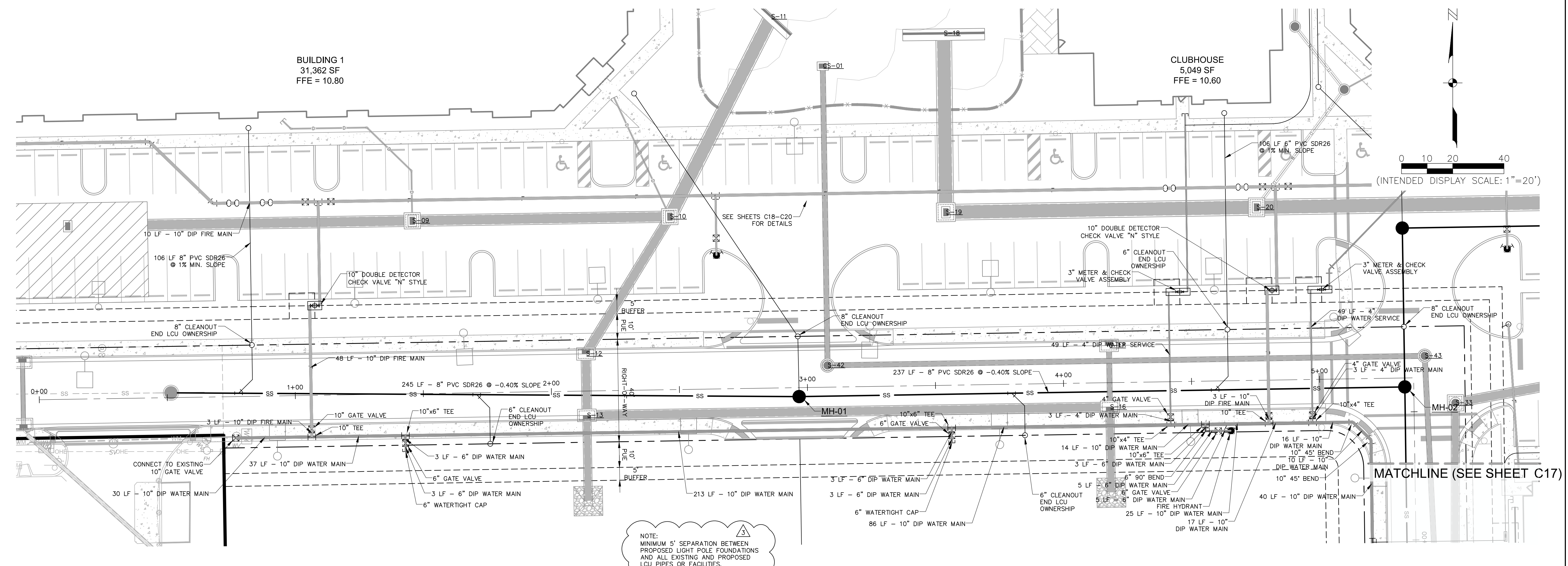
NO.	DATE	DESCRIPTION
1	07/28/21	LEE COUNTY RAI #1
2	11/05/21	LEE COUNTY RAI #2

DATE: JUNE 2021  
PROJECT NO. 20192125-000  
FILE NO. 15-45-24  
SCALE: 1" = 20'

PLAN & PROFILE

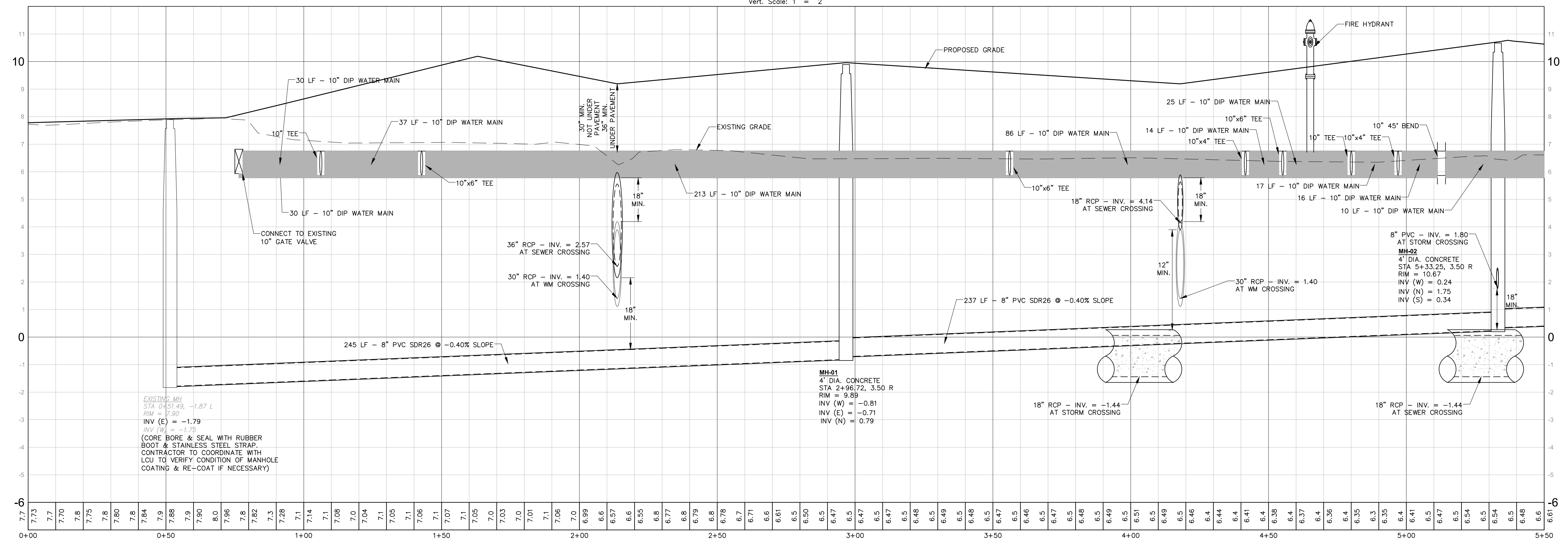
SHEET NUMBER

**C16**



NOTE:  
MINIMUM 5' SEPARATION BETWEEN  
PROPOSED LIGHT POLE FOUNDATIONS  
AND ALL EXISTING AND PROPOSED  
LCU PIPES OR FACILITIES.

Profile View  
Sta: 0+00 to Sta: 5+50  
Hor. Scale: 1" = 20'  
Vert. Scale: 1" = 2'

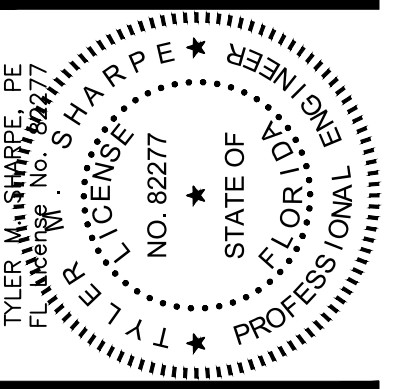


EXISTING MH  
STA 0+51.49, -1.87 L  
RIM = 7.90  
INV (E) = -1.79  
INV (W) = -1.75  
(CORE BORE & SEAL WITH RUBBER  
BOOT & STAINLESS STEEL STRAP.  
CONTRACTOR TO COORDINATE WITH  
LCU TO VERIFY CONDITION OF MANHOLE  
COATING & RE-COAT IF NECESSARY)

MH-01  
4" DIA. CONCRETE  
STA 2+96.72, 3.50 R  
RIM = 9.89  
INV (W) = -0.81  
INV (E) = -0.71  
INV (N) = 0.79

8" PVC - INV. = 1.80  
AT STORM CROSSING  
MH-02  
4" DIA. CONCRETE  
STA 5+33.25, 3.50 R  
RIM = 10.67  
INV (W) = 0.24  
INV (N) = 1.75  
INV (S) = 0.34





ZIMMER DEVELOPMENT COMPANY

INSPIRATION AT SOUTH POINTE  
LEE COUNTY, FLORIDA

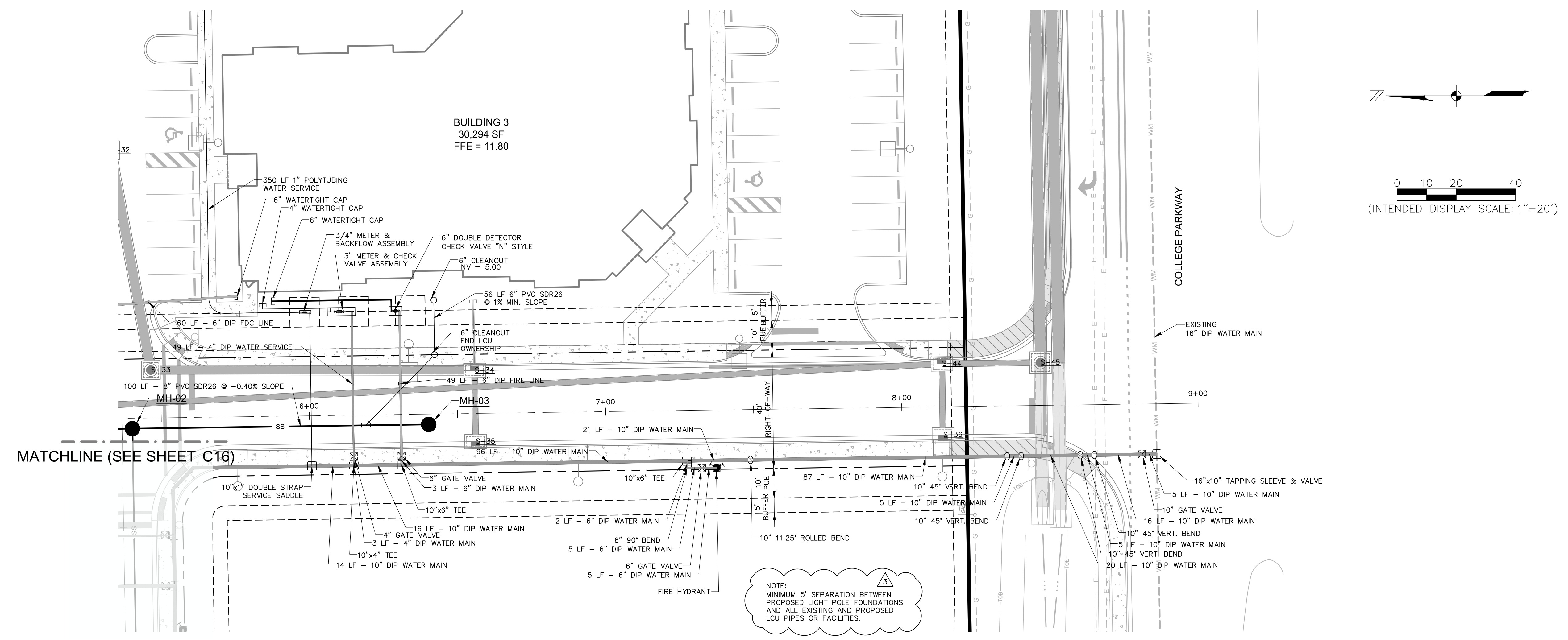
NO.	DATE	DESCRIPTION
1	07/28/21	LEE COUNTY RAI #1
2	11/05/21	LEE COUNTY RAI #2

DATE: JUNE 2021  
PROJECT NO. 2019125-000  
FILE NO. 15-45-24  
SCALE: 1" = 20'

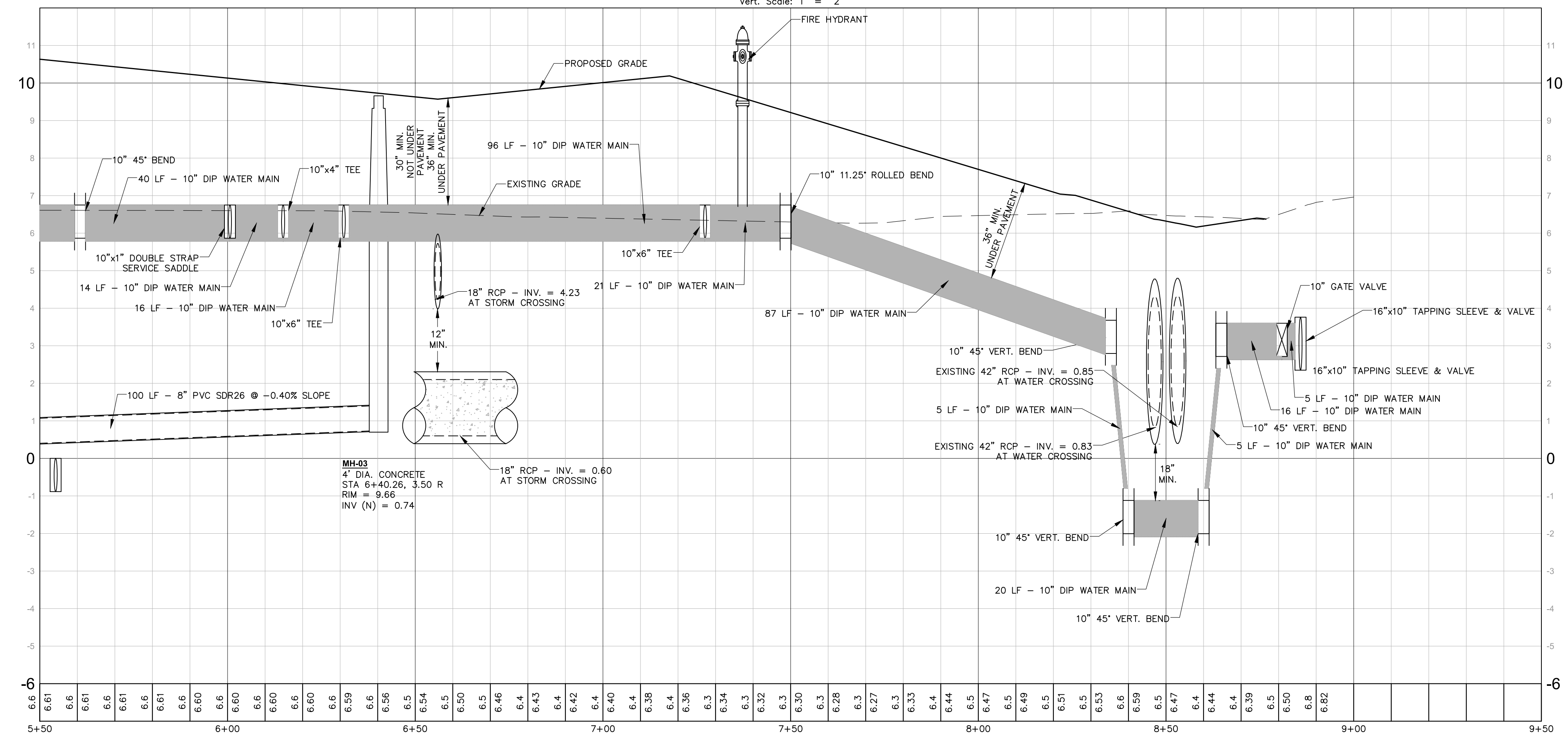
PLAN & PROFILE

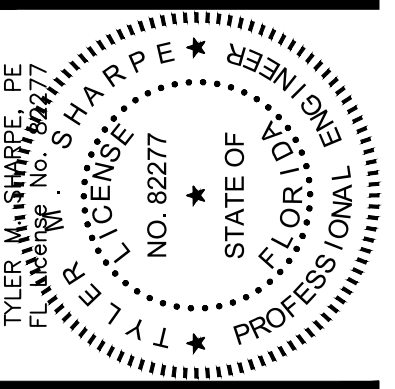
SHEET NUMBER

**C17**



Profile View  
Sta: 5+50 to Sta: 9+50  
Hor. Scale: 1" = 20'  
Vert. Scale: 1" = 2'





ZIMMER DEVELOPMENT COMPANY

INSPIRATION AT SOUTH POINTE  
LEE COUNTY, FLORIDA

REVISIONS

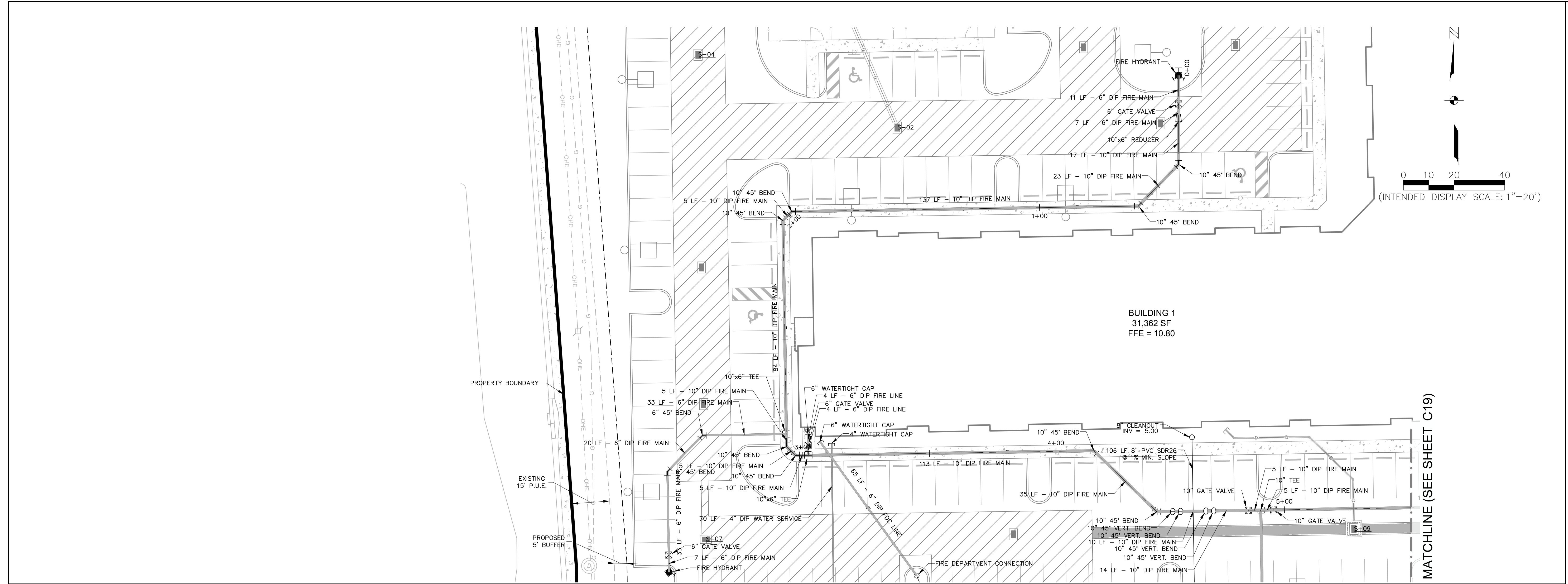
NO.	DATE	DESCRIPTION
1	07/28/21	LEE COUNTY RAI #1
2	11/05/21	LEE COUNTY RAI #2

DATE: JUNE 2021  
PROJECT NO. 2019125-000  
FILE NO. 15-45-24  
SCALE: 1" = 20'

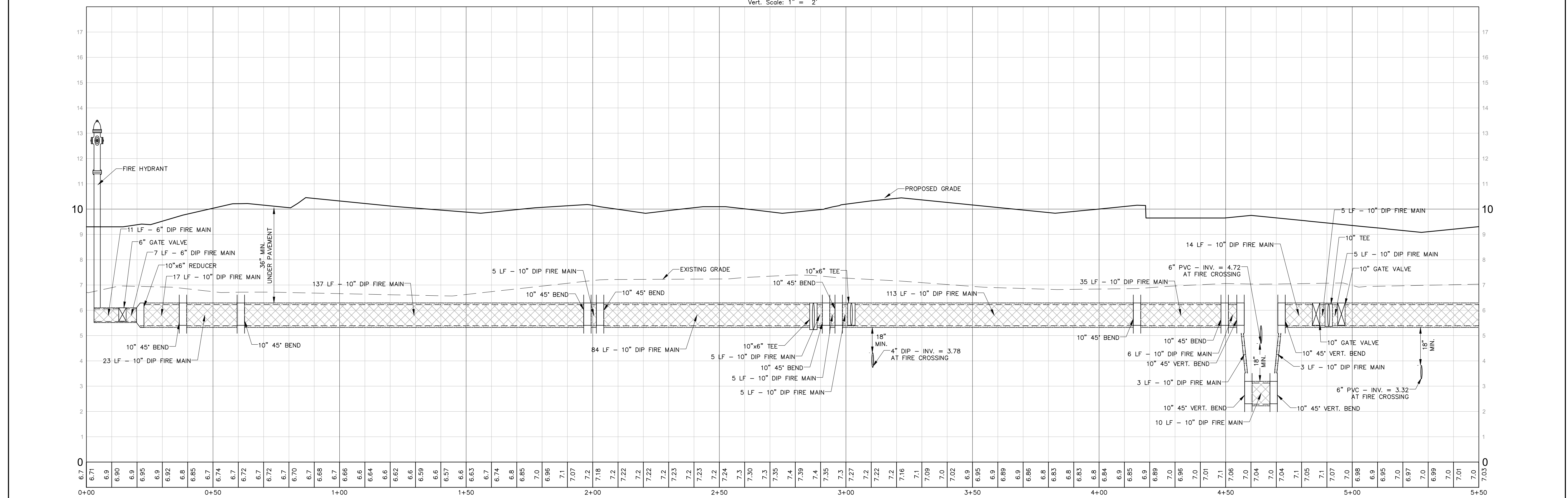
PLAN & PROFILE

SHEET NUMBER

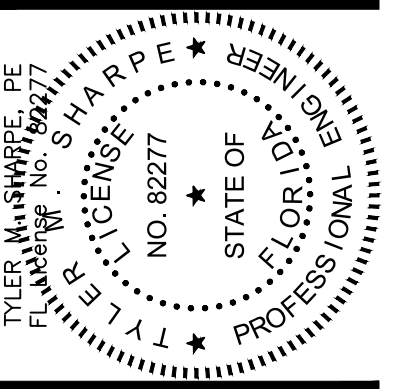
**C18**



Profile View  
Sta: 0+00 to Sta: 5+50  
Hor. Scale: 1" = 20'  
Vert. Scale: 1" = 2'

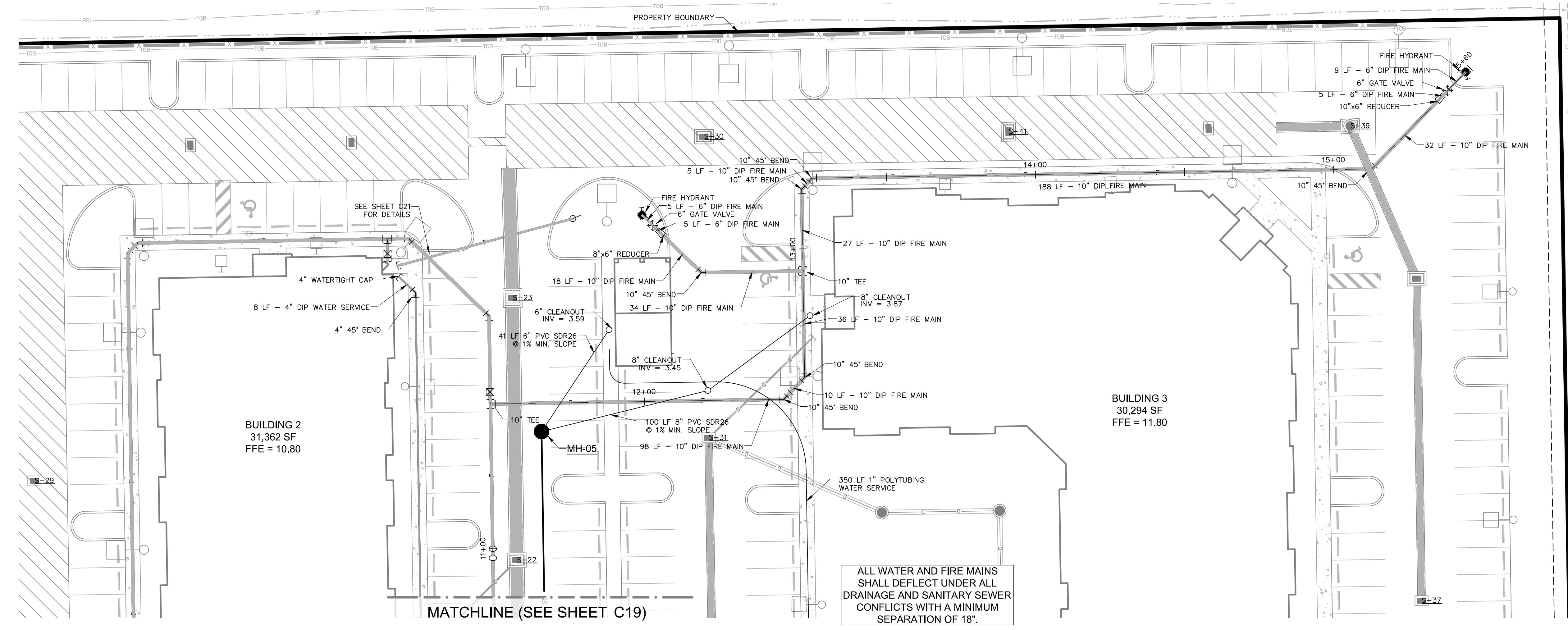
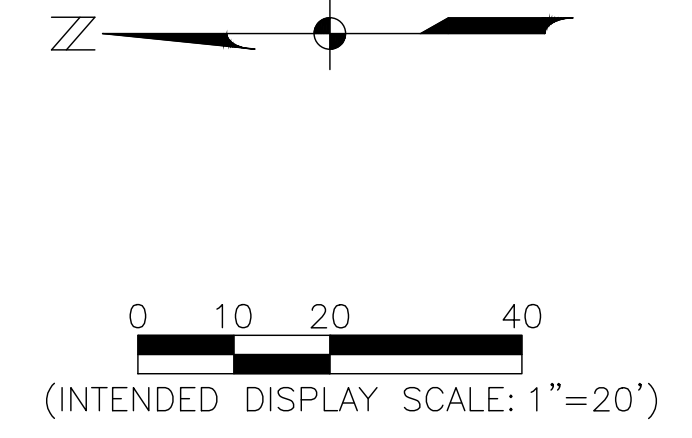




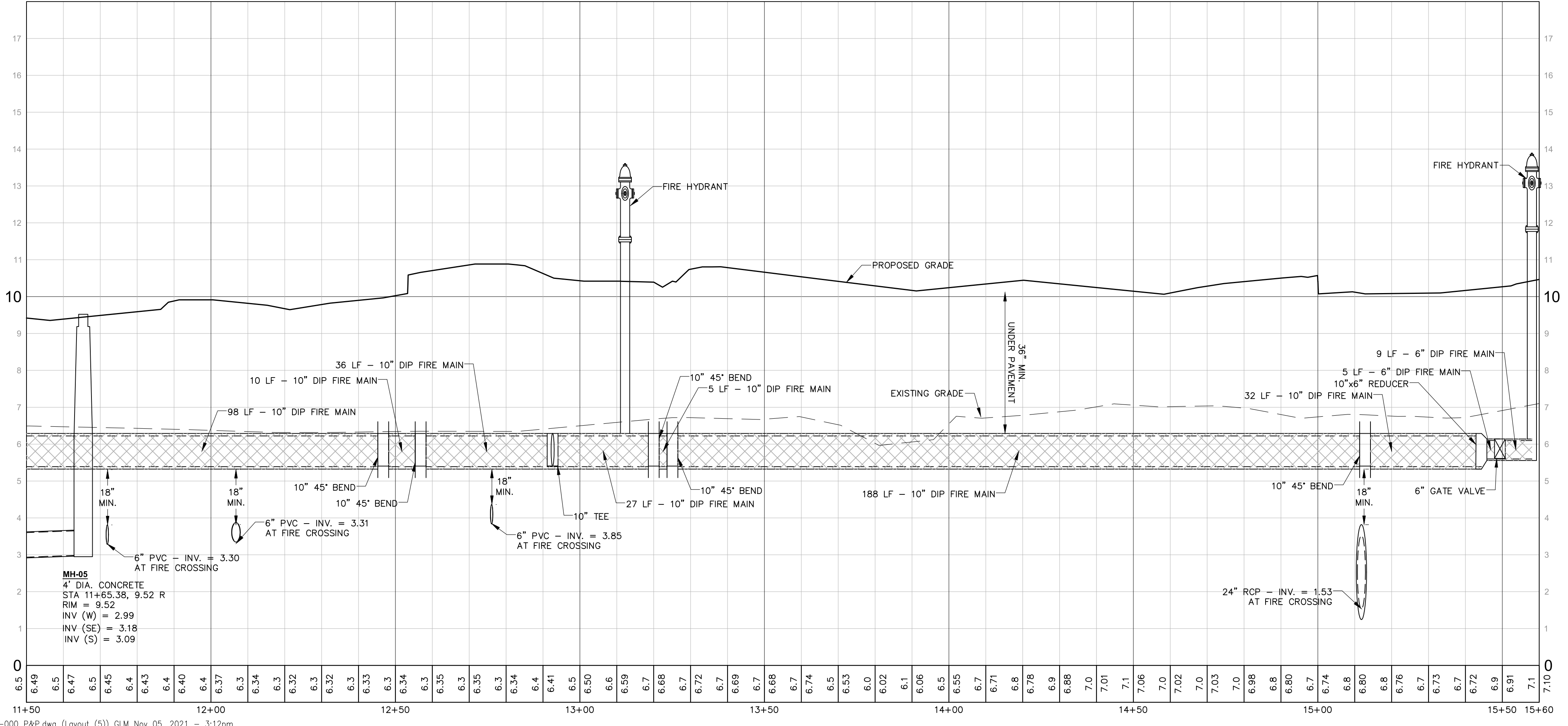


ZIMMER DEVELOPMENT COMPANY

INSPIRATION AT SOUTH POINTE  
LEE COUNTY, FLORIDA



Profile View  
Sta: 11+50 to Sta: 15+60  
Hor. Scale: 1" = 20'  
Vert. Scale: 1" = 2'



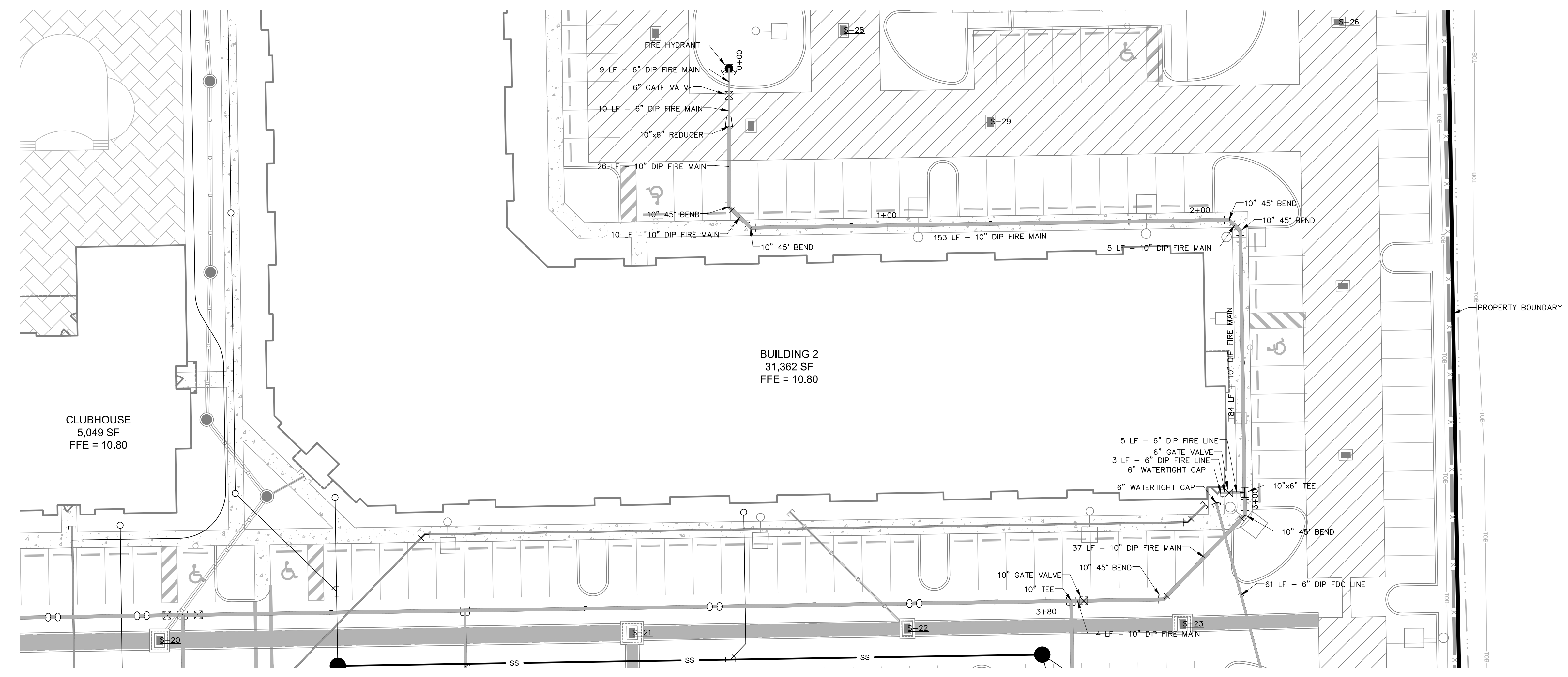
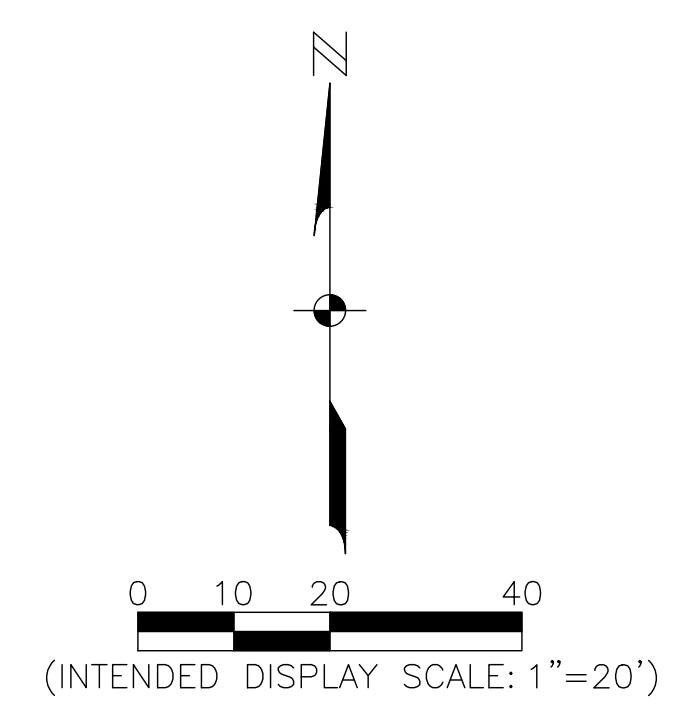
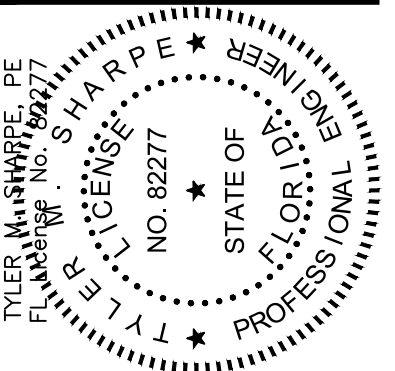
NO.	REVISIONS	DATE
1	DESCRIPTION	07/28/21
2	LEE COUNTY RAI #1	11/05/21
3	LEE COUNTY RAI #2	

DATE: JUNE 2021  
PROJECT NO. 20192125-000  
FILE NO. 15-45-24  
SCALE: 1" = 20'

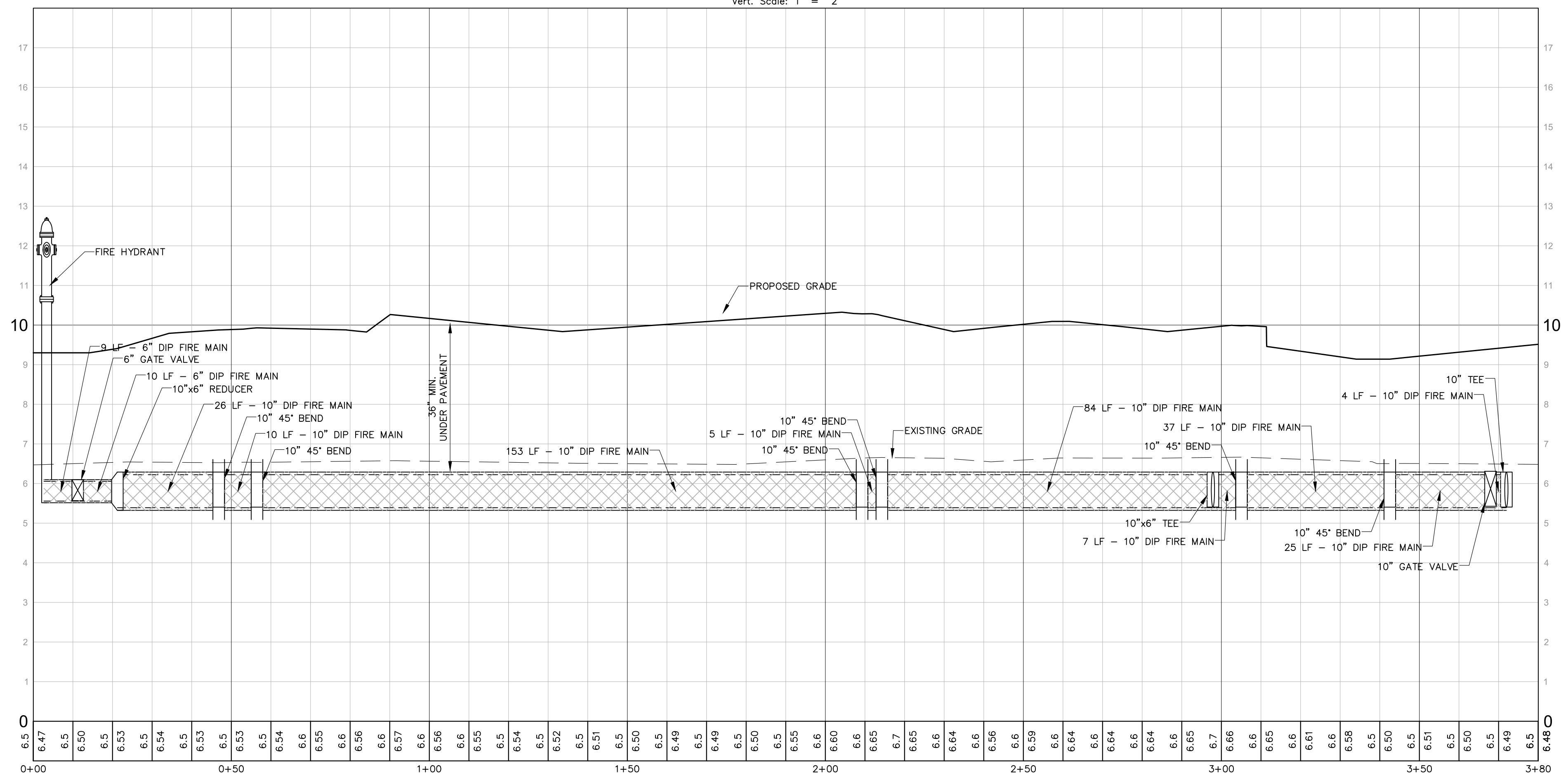
PLAN & PROFILE

SHEET NUMBER

**C20**



**Profile View**  
Sta: 0+00 to Sta: 3+80  
Hor. Scale: 1" = 20'  
Vert. Scale: 1" = 2'

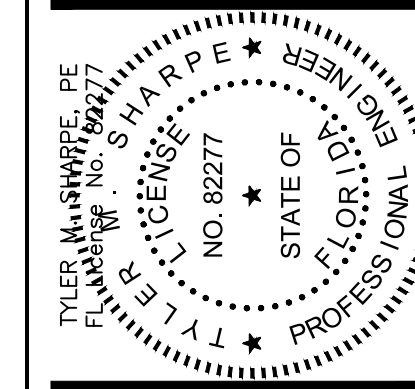


NO.	DATE	DESCRIPTION
1	07/28/21	LEE COUNTY RAI #1
2	11/05/21	LEE COUNTY RAI #2

DATE: JUNE 2021  
PROJECT NO. 20192125-000  
FILE NO. 15-45-24  
SCALE: 1" = 20'

PLAN & PROFILE

SHEET NUMBER  
**C21**



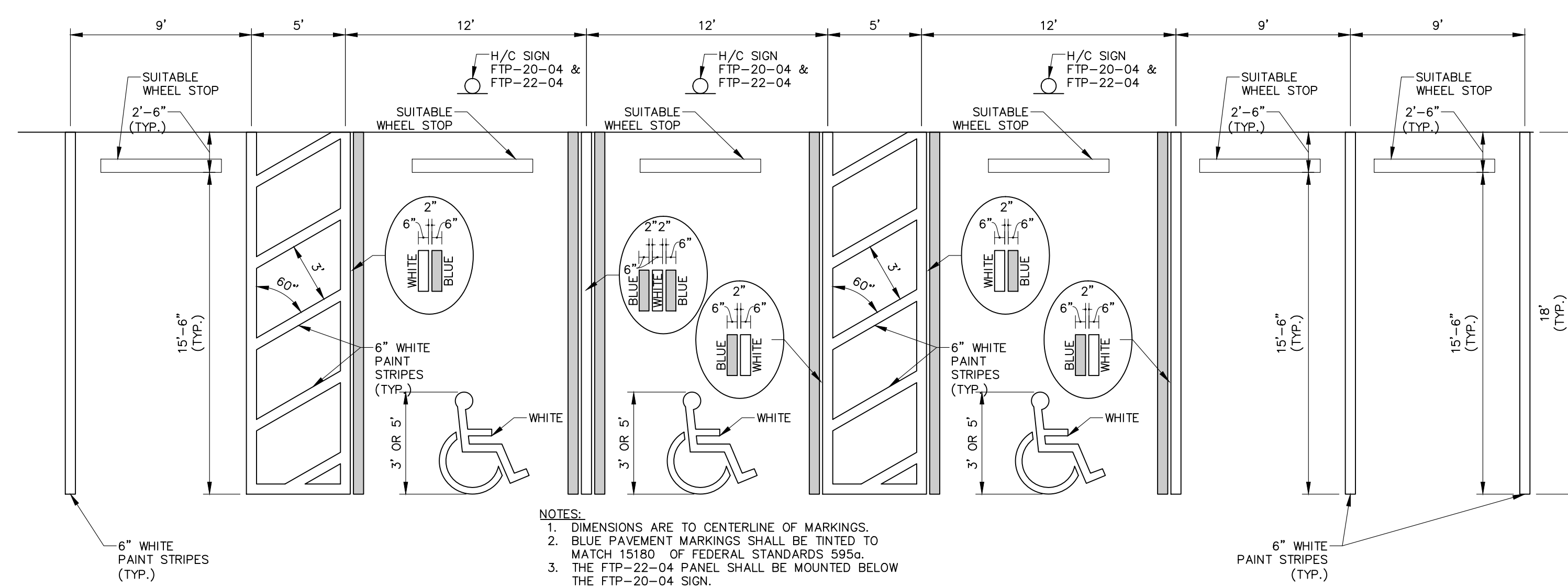
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1	07/28/21	LEE COUNTY RAI #1
2	11/05/21	LEE COUNTY RAI #2

DATE: JUNE 2021  
PROJECT NO. 2019125-000  
FILE NO. 15-45-24  
SCALE: AS SHOWN

TYPICAL SECTIONS & DETAILS

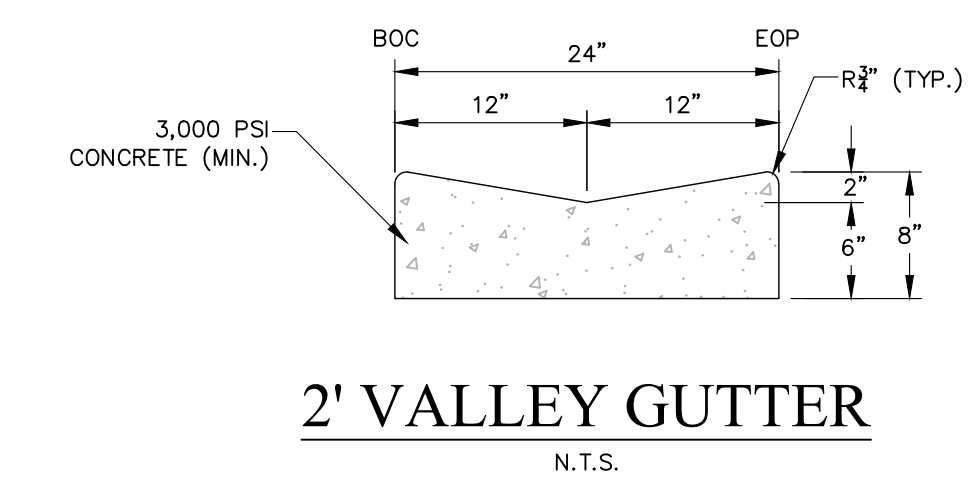
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C22

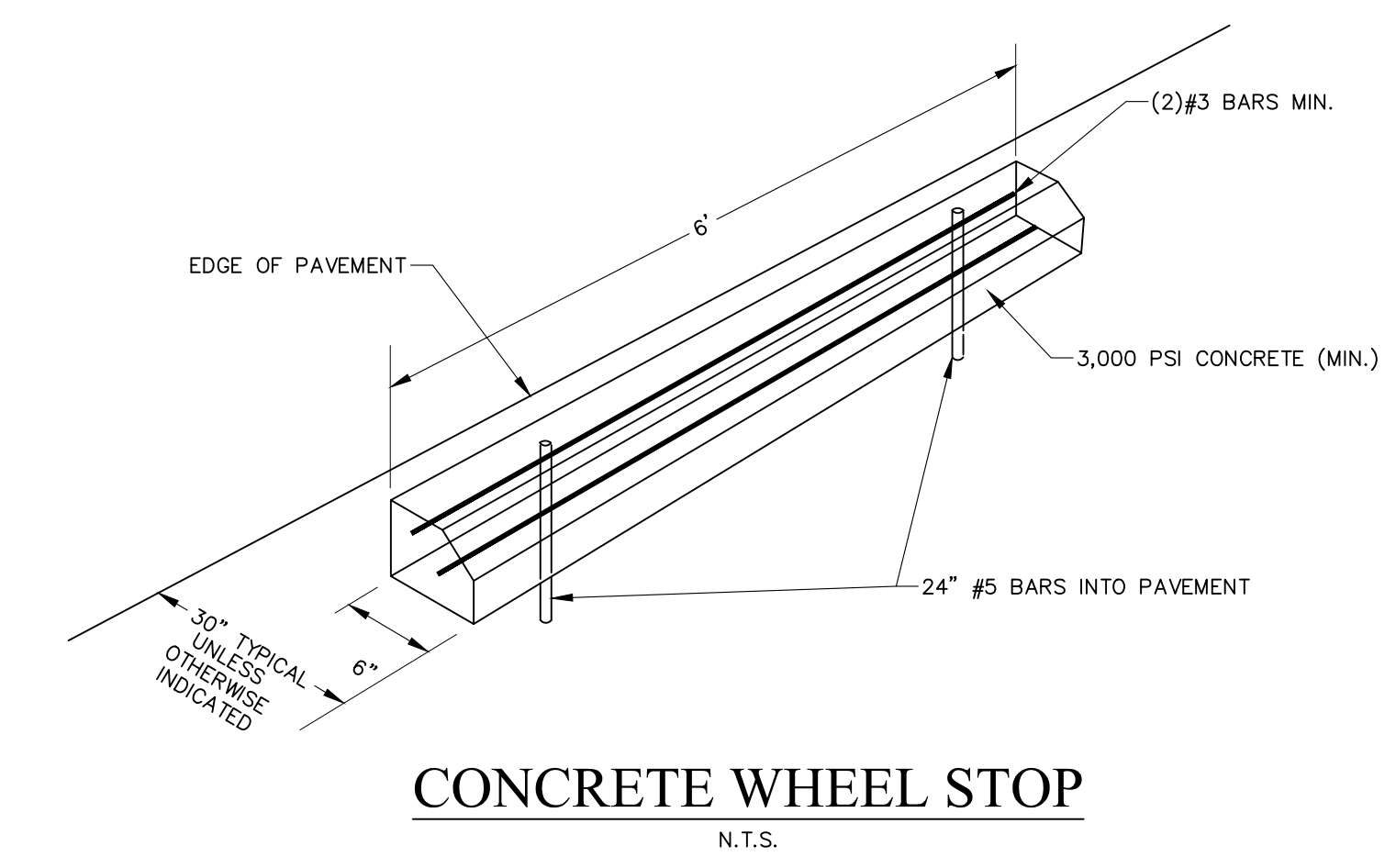


**HANDICAP / STANDARD PARKING DETAIL**  
N.T.S.

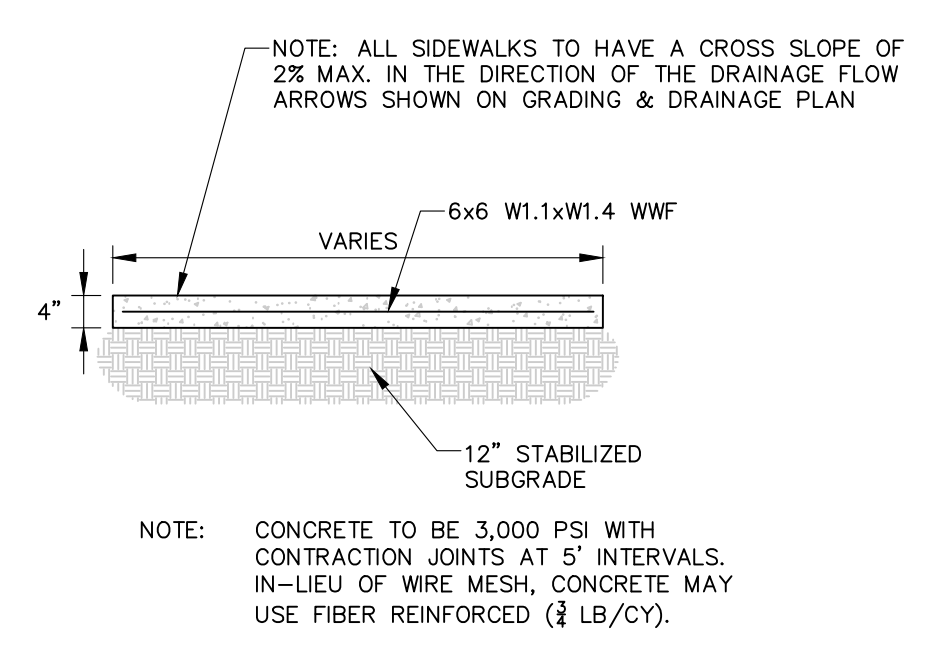
- NOTES:  
1. DIMENSIONS ARE TO CENTERLINE OF MARKINGS.  
2. BLUE PAVEMENT MARKINGS SHALL BE TINTED TO MATCH 15180 OF FEDERAL STANDARDS 595.  
3. THE FTP-22-04 PANEL SHALL BE MOUNTED BELOW THE FTP-20-04 SIGN.



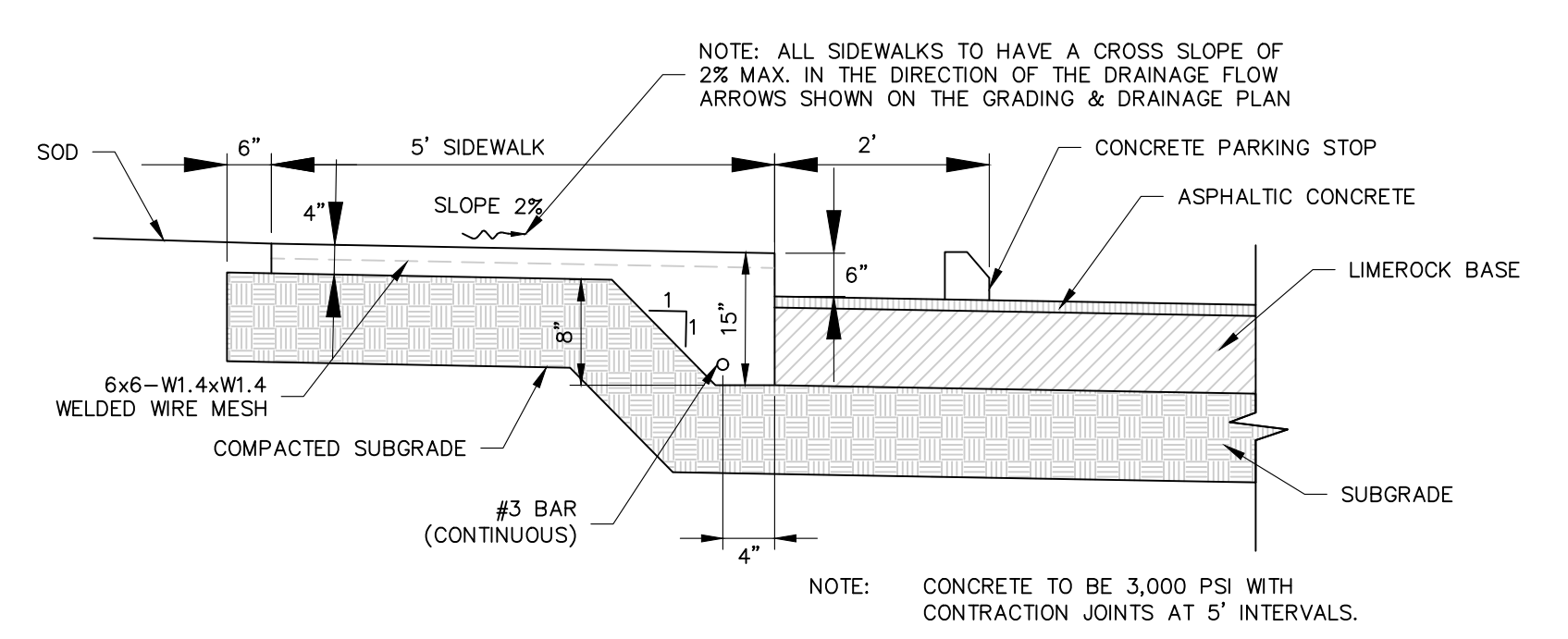
**2' VALLEY GUTTER**  
N.T.S.



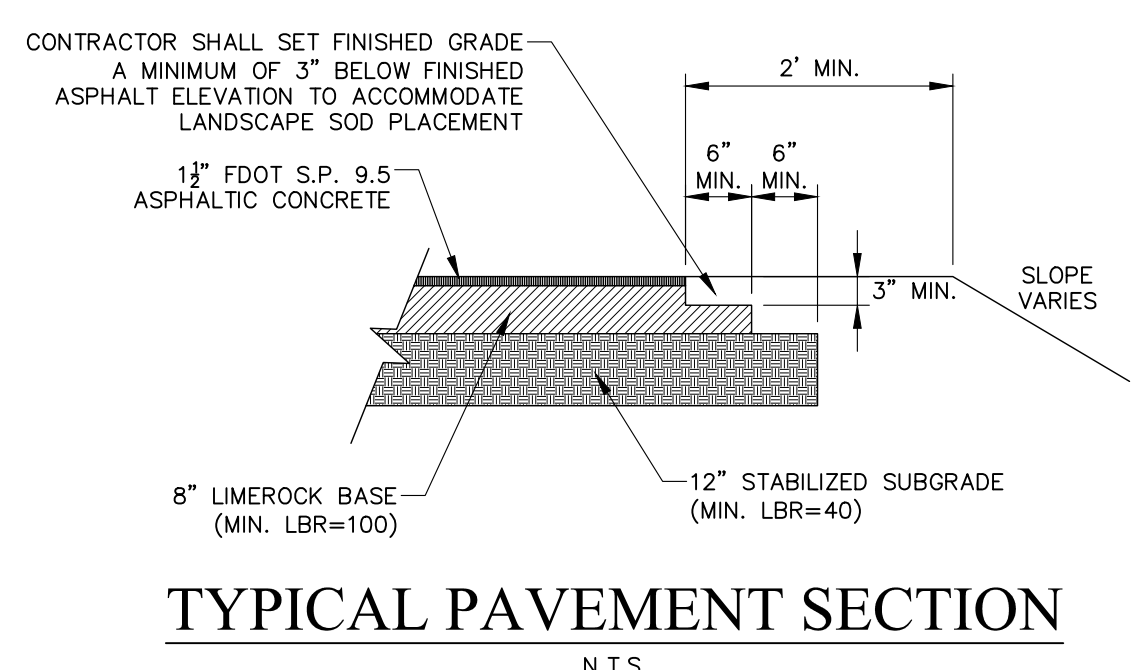
**CONCRETE WHEEL STOP**  
N.T.S.



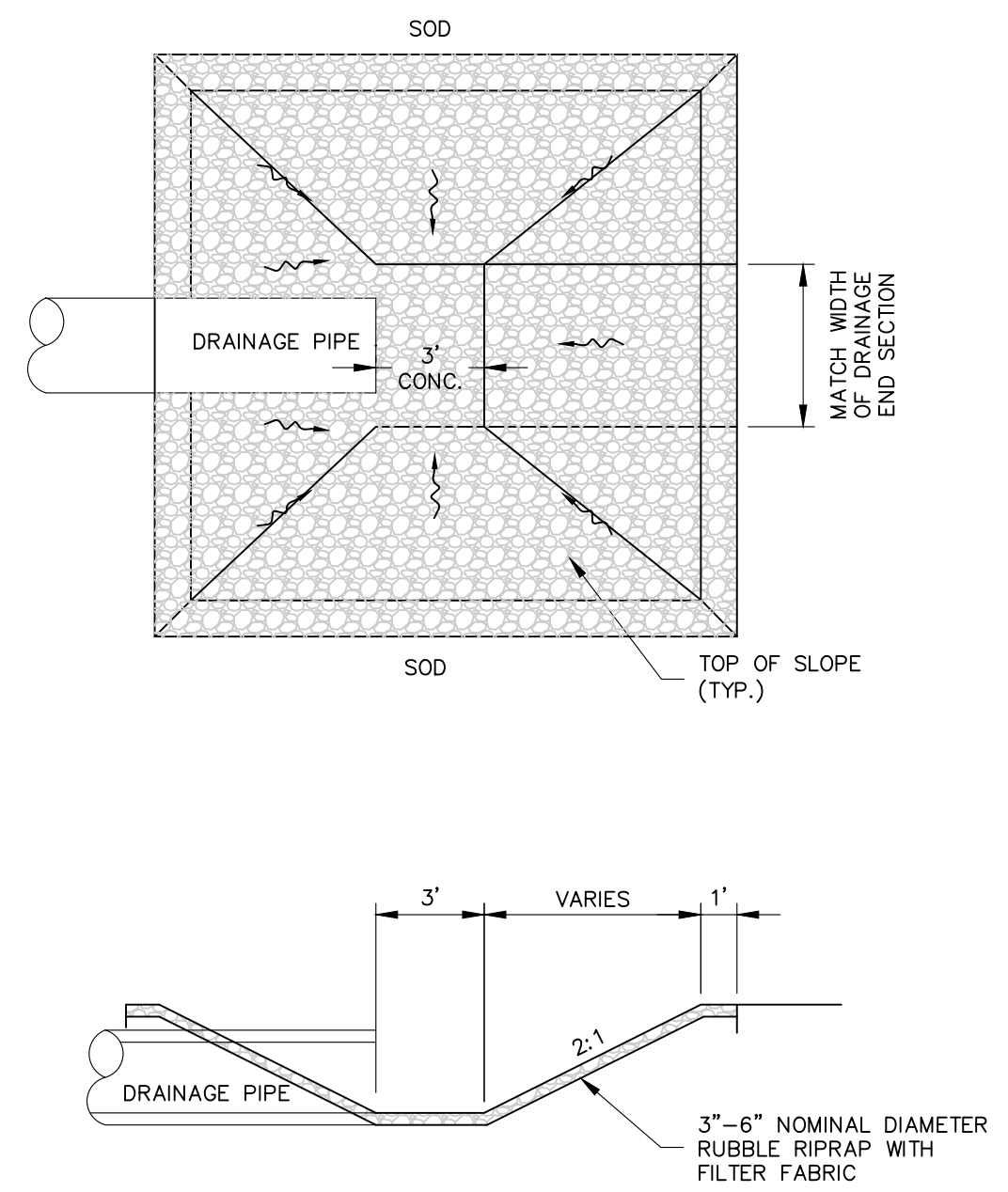
**SIDEWALK DETAIL**  
N.T.S.



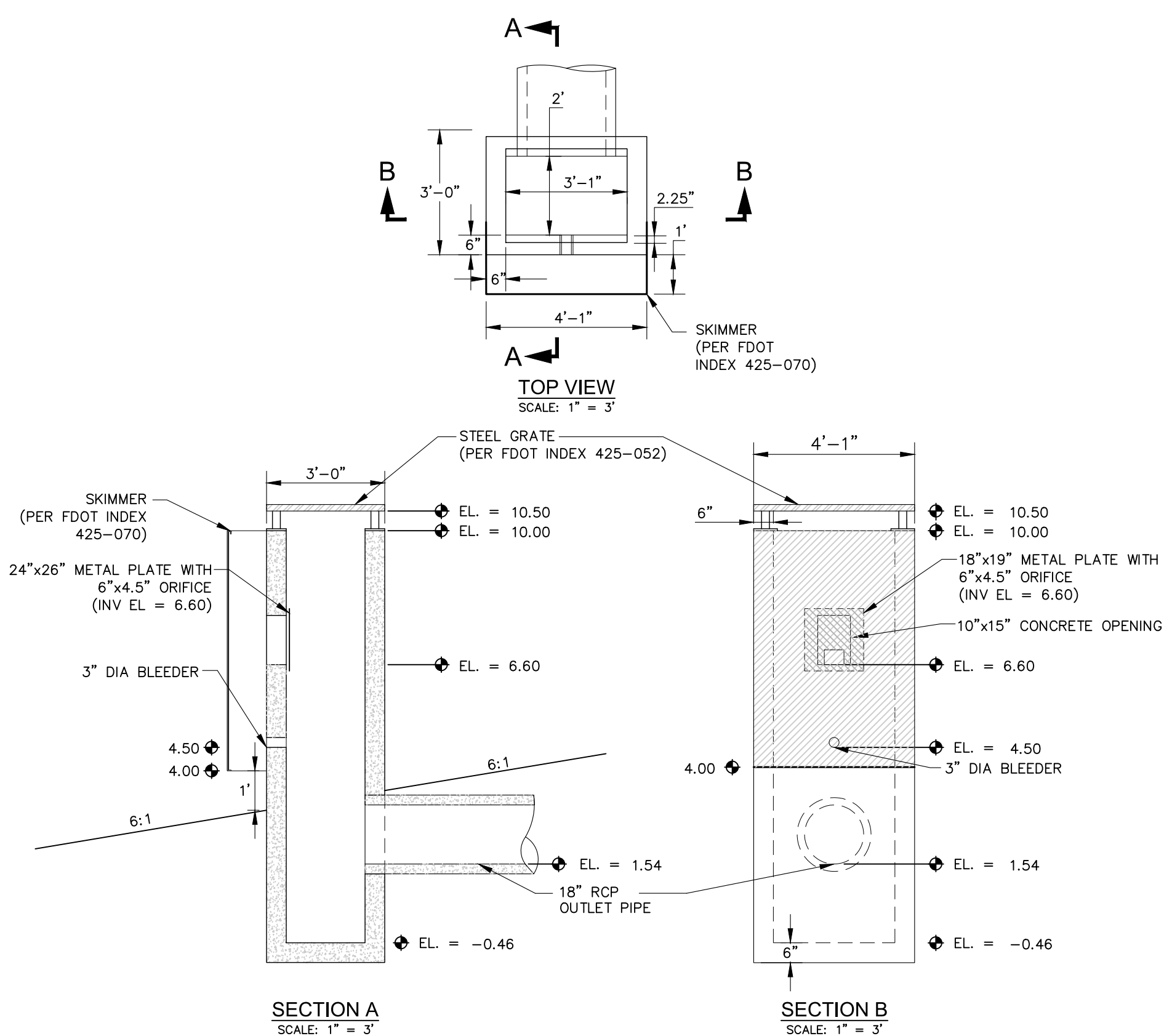
**SIDEWALK DETAIL (WHEN ADJACENT TO PAVEMENT)**  
N.T.S.



**TYPICAL PAVEMENT SECTION**  
N.T.S.



**RIPRAP SUMP DETAIL**  
N.T.S.



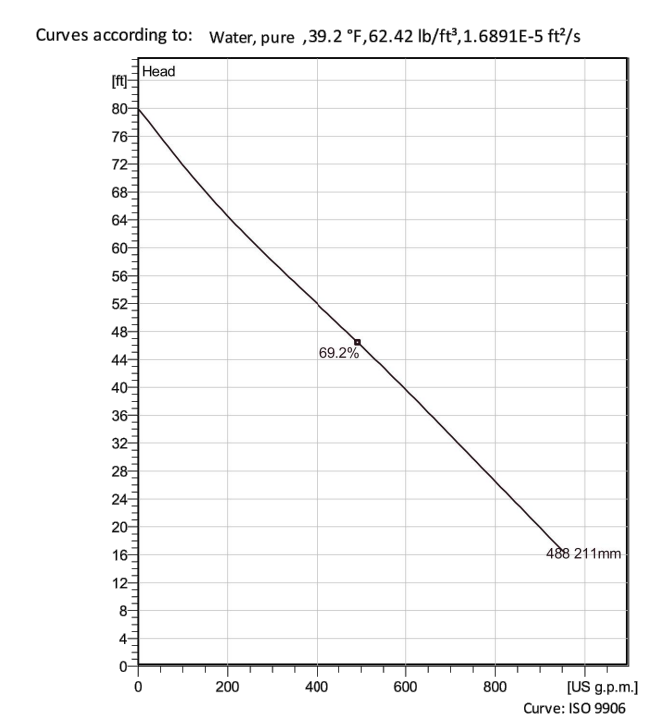
**MODIFIED FDOT TYPE "C" INLET**  
(PER FDOT INDEX 425-052)  
SCALE: 1" = 3"

**NP 3127 HT 3~ Adaptive 488**

Patented self-cleaning semi-open channel impeller. Ideal for pumping in waste water applications. Modular based design with high adaptation grade.



**Technical specification**

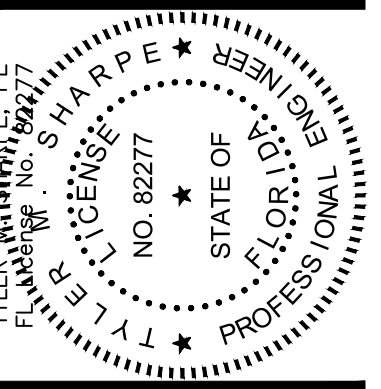


**Configuration**

Motor number N3127-06021-12-4AL-W 10hp	Installation type P - Semi permanent, Wet
Impeller diameter 211 mm	Discharge diameter 3/16 inch
<b>Pump information</b>	<b>Materials</b>
Impeller diameter 211 mm	Impeller Hard-iron™
Discharge diameter 3/16 inch	Stator housing material Grey cast iron
Inlet diameter 100 mm	
Maximum operating speed 1745 rpm	
Number of blades 2	

Max. fluid temperature  
40 °C

Project: Block  
Created by: Chris Stewart  
Created on: 10/5/2021  
Last update: 10/5/2021



ZIMMER DEVELOPMENT COMPANY

INSPIRATION AT SOUTH POINTE  
LEE COUNTY, FLORIDA

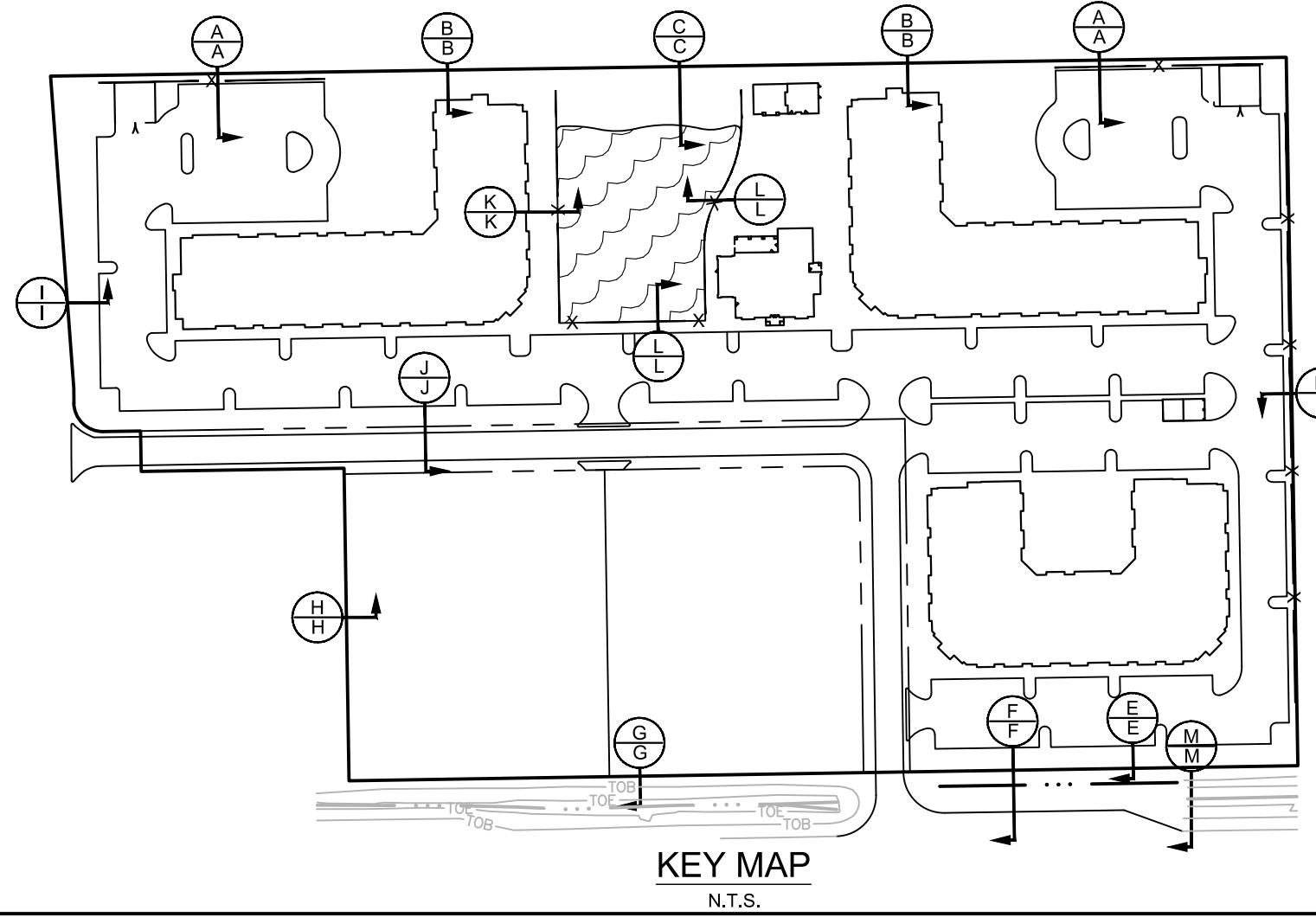
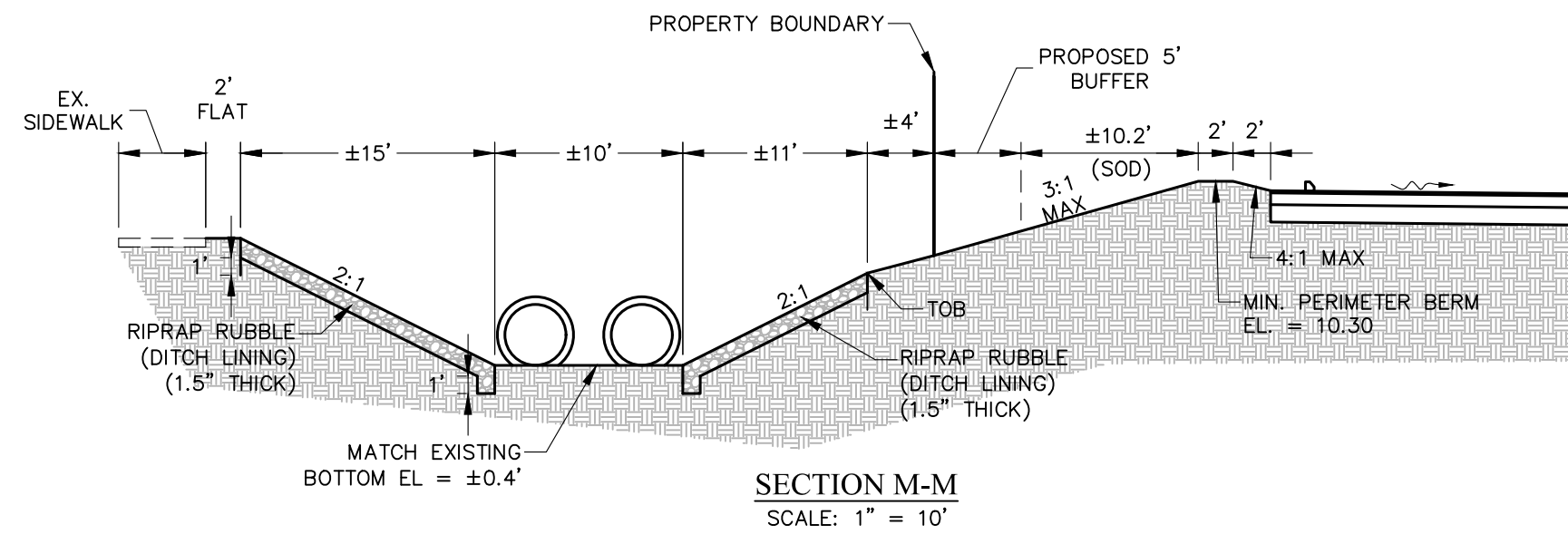
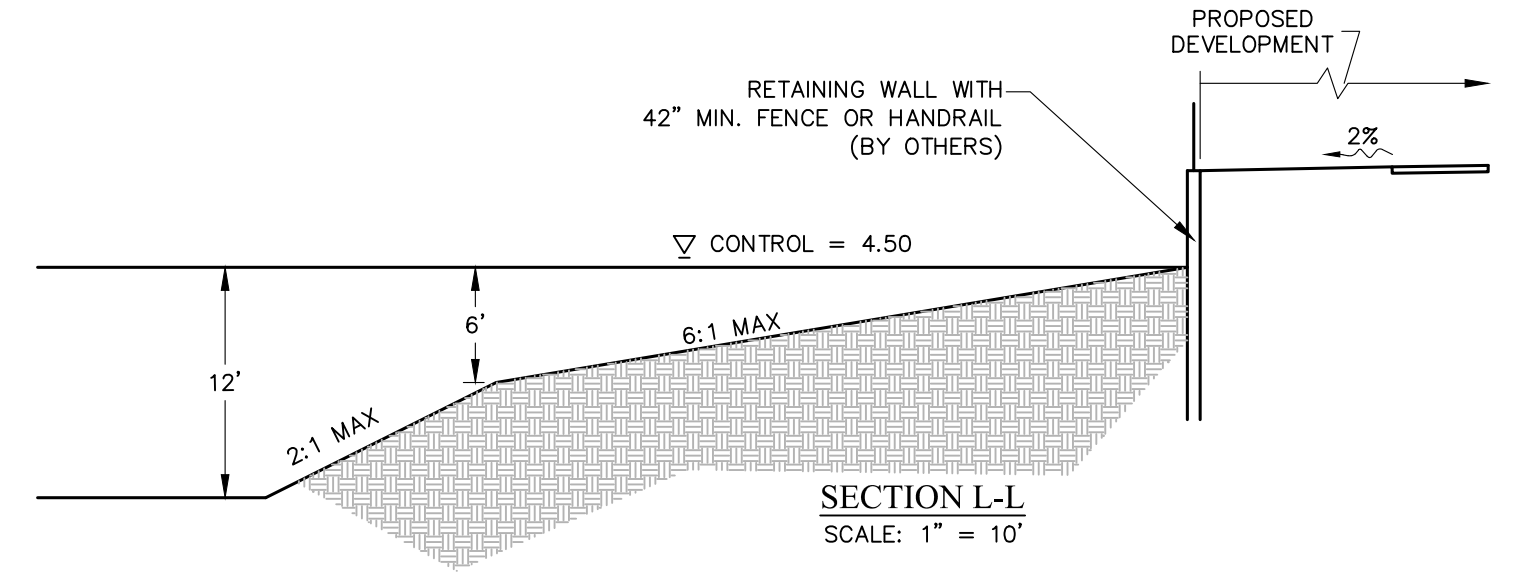
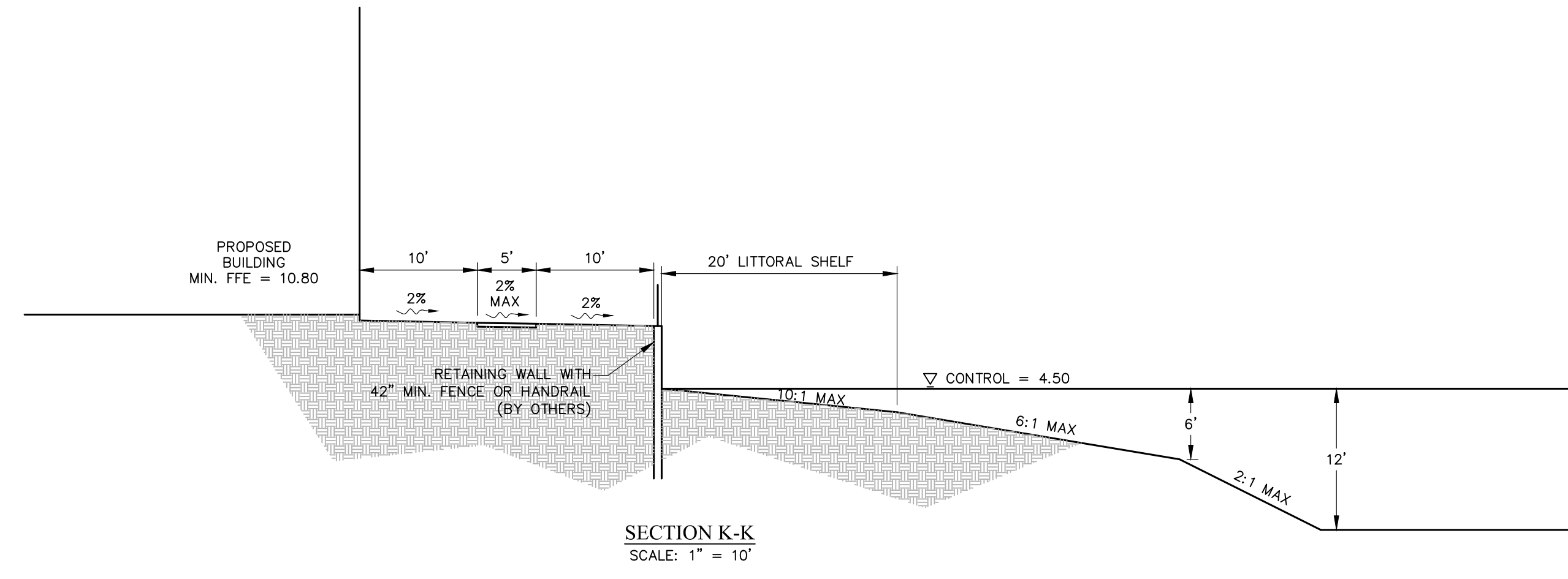
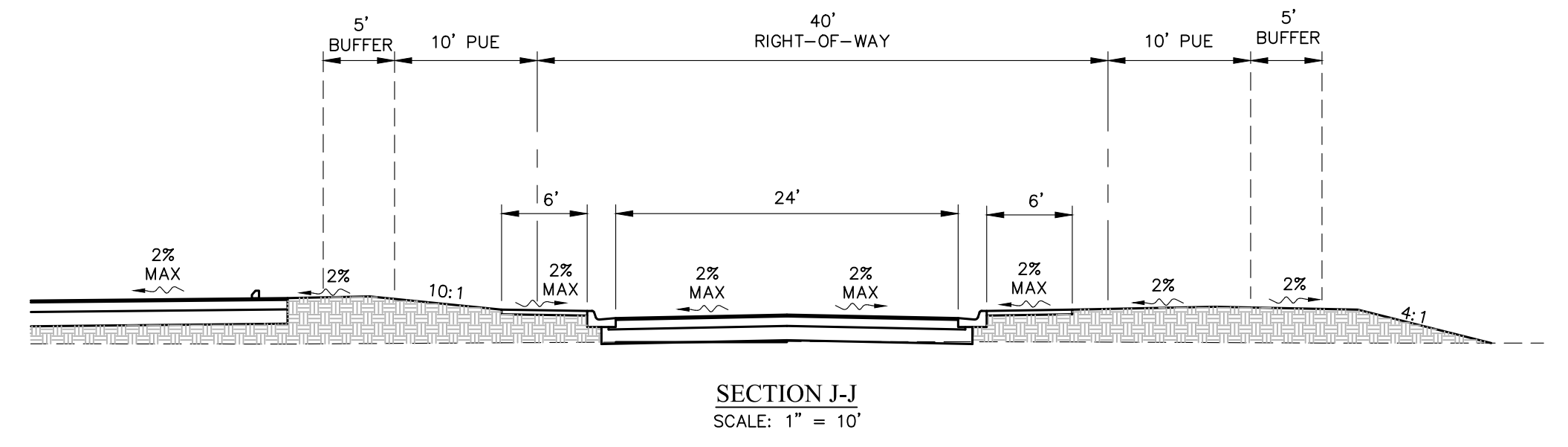
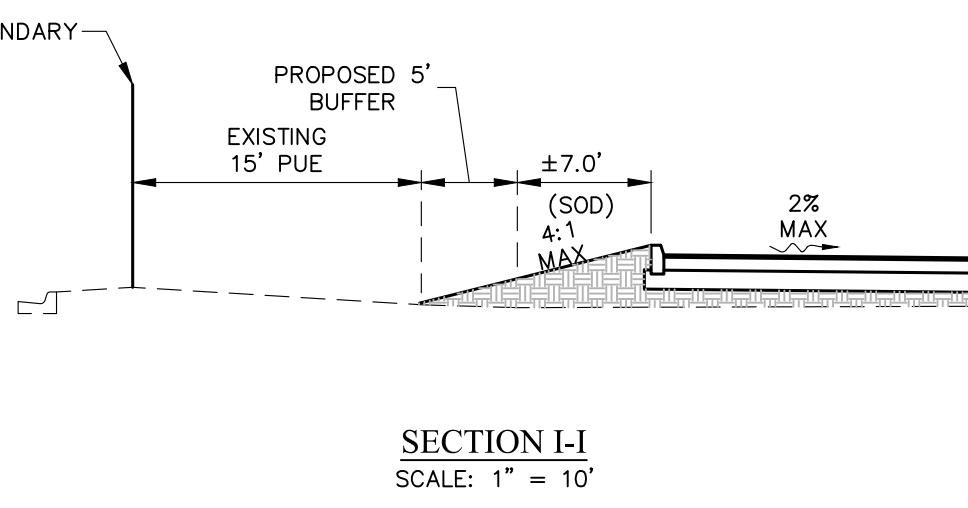
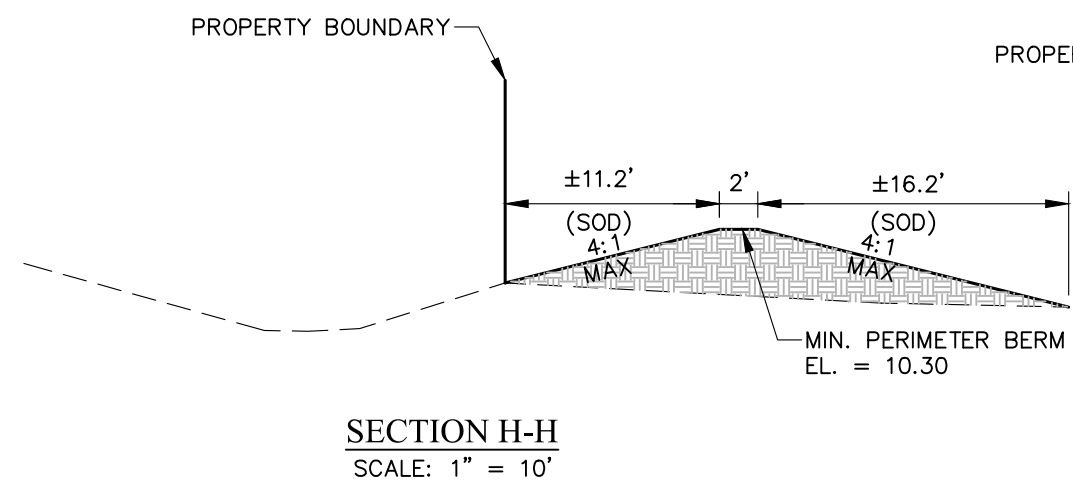
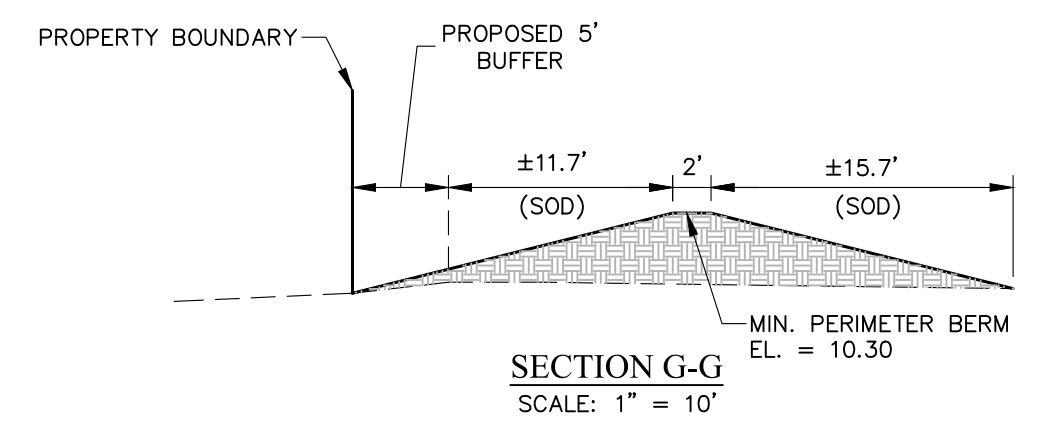
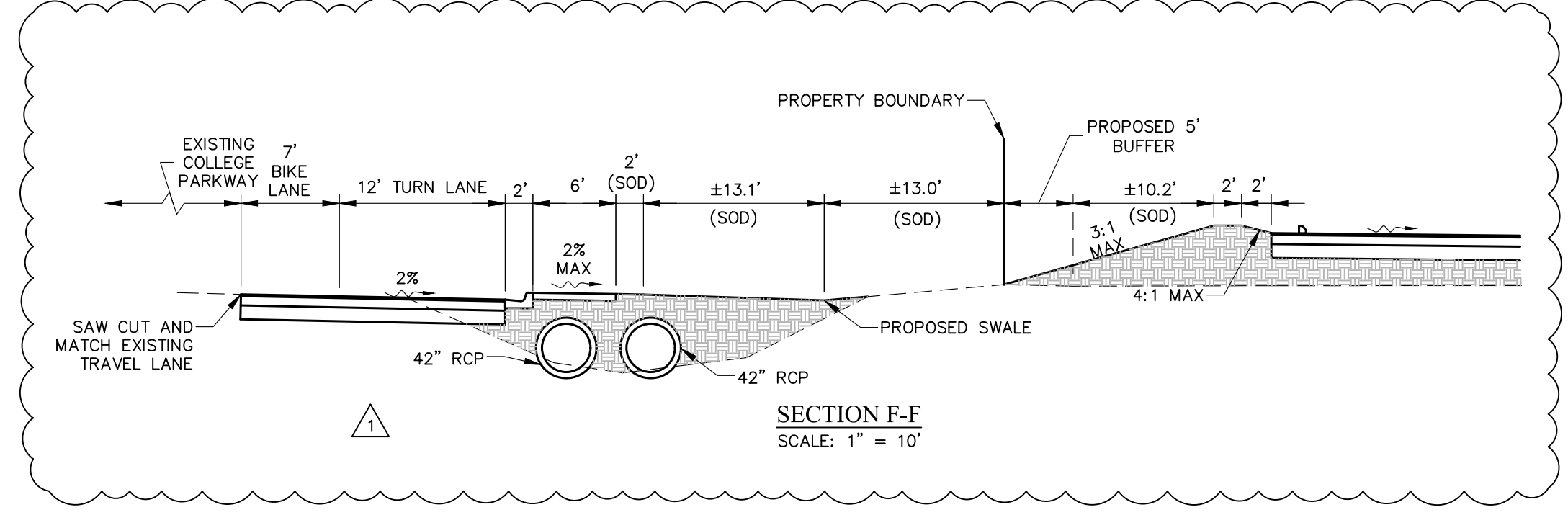
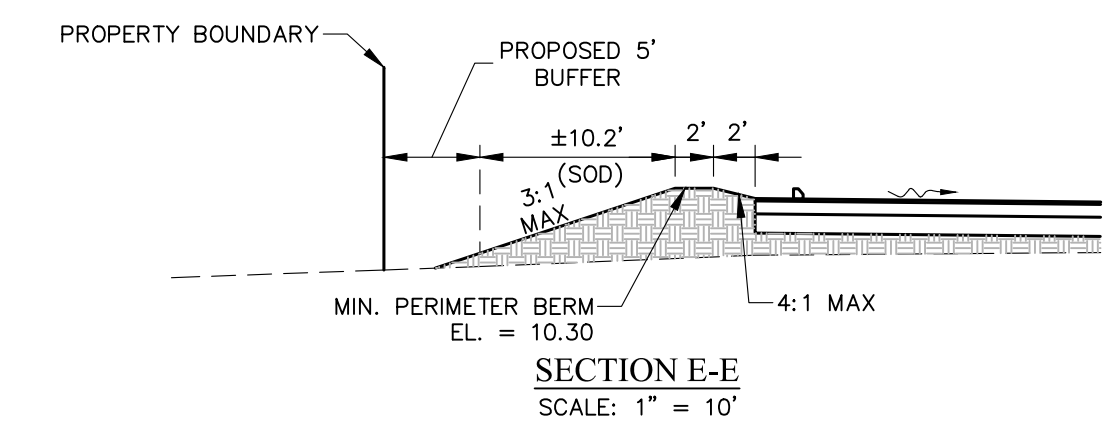
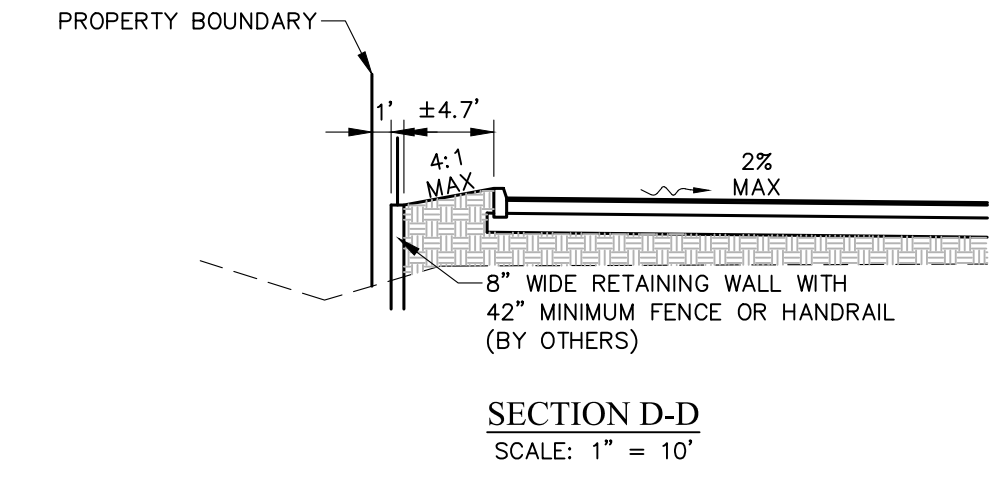
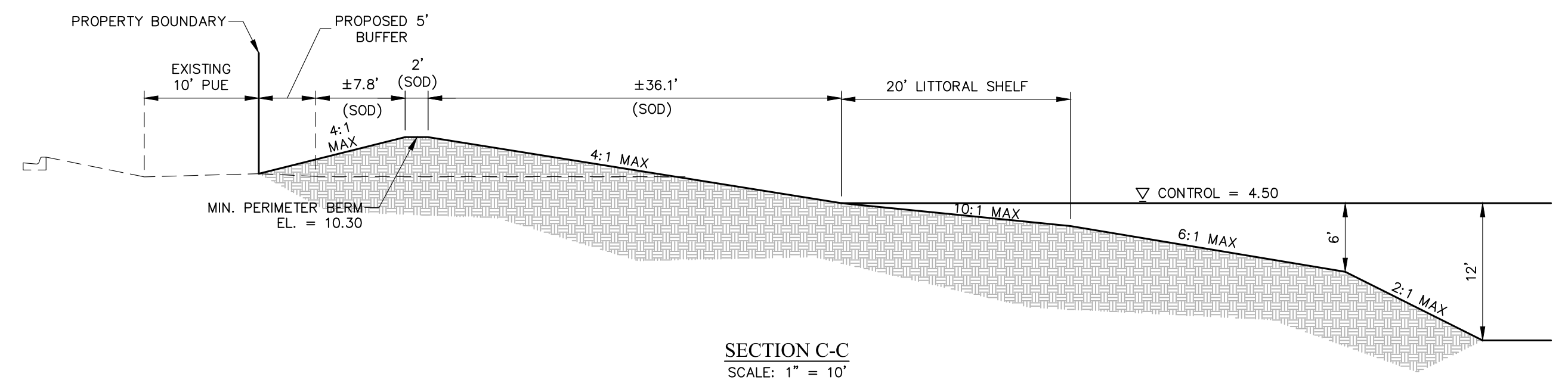
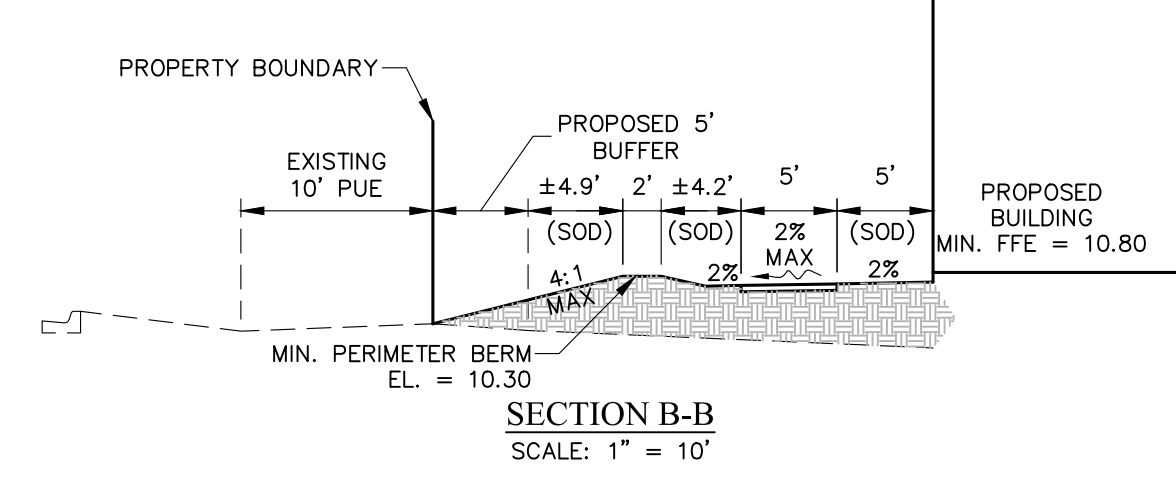
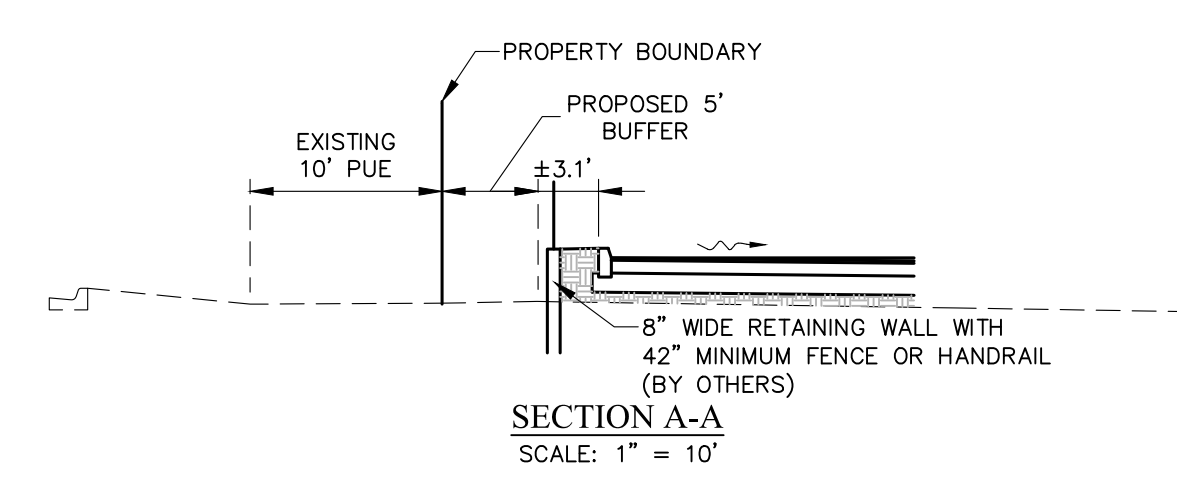
NO.	DATE	DESCRIPTION
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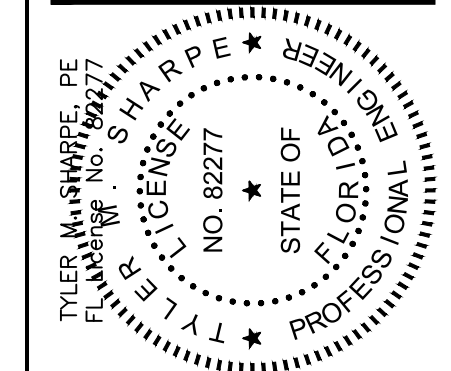
DATE: JUNE 2021  
PROJECT NO. 20192125-000  
FILE NO. 15-45-24  
SCALE: AS SHOWN

TYPICAL SECTIONS & DETAILS

SHEET NUMBER

**C23**





NO.	DATE	DESCRIPTION
1	07/28/21	

DATE: JUNE 2021  
PROJECT NO. 2019125-000  
FILE NO. 15-45-24  
SCALE: AS SHOWN

PROJECT INFORMATION	
ADS SALES REP:	RICK PFAFFENDORF 813-727-2545 RICK.PFAFFENDORF@ADS-PIPE.COM
PROJECT NO.:	S233736



**FORT MYERS, FL**

**SC-310 STORMTECH CHAMBER SPECIFICATIONS**

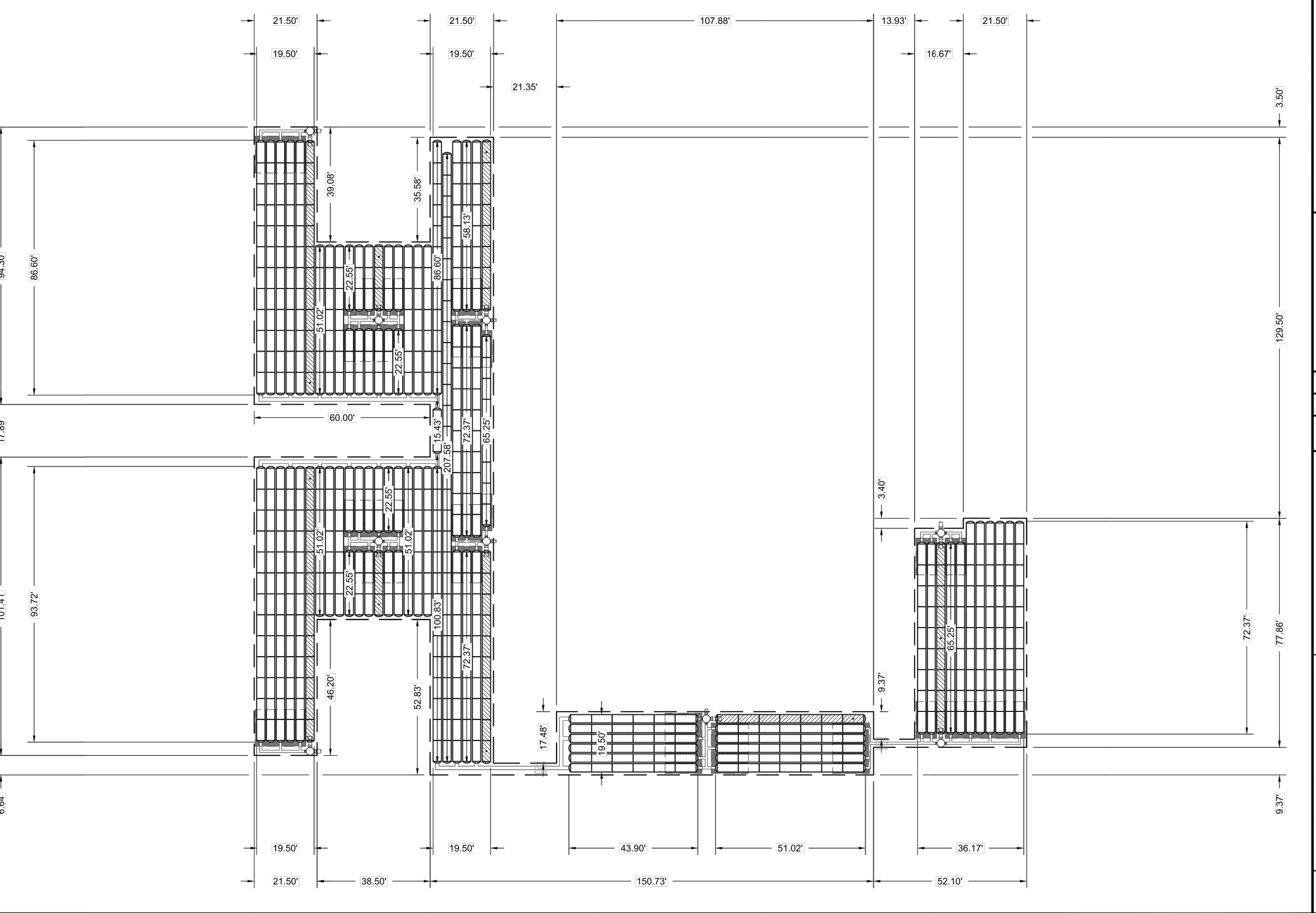
- CHAMBERS SHALL BE STORMTECH SC-310.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE OR POLYETHYLENE COPOLYMERS.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLYETHYLENE) OR ASTM F2418-16a (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (25-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK), AASHTO DESIGN TRUCK.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
  - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LOGS.
  - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
  - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.6 OF ASTM F2922 SHALL BE GREATER THAN OR EQUAL TO 400 LBS/IN. AND 1) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
  - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
  - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
  - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2922 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 15-YEAR MODULUS USED FOR DESIGN.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

**IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310 SYSTEM**

- STORMTECH SC-310 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
  - STONEHOPPER LOCATED OFF THE CHAMBER BED.
  - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
  - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4" (20-50 mm).
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

**NOTES FOR CONSTRUCTION EQUIPMENT**

- STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
  - THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED:
    - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
    - NO RUBBER Tired LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
    - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
  - FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.
- USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.**
- CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.



**StormTech Chamber System**  
4640 TREUMAN BLVD  
HILLIARD, OH 43026  
888-892-2694 | WWW.STORMTECH.COM

FORT MYERS, FL  
DATE: 04/22/21  
DRAWN: SLV  
PROJECT #: S233736  
CHECKED: JAL

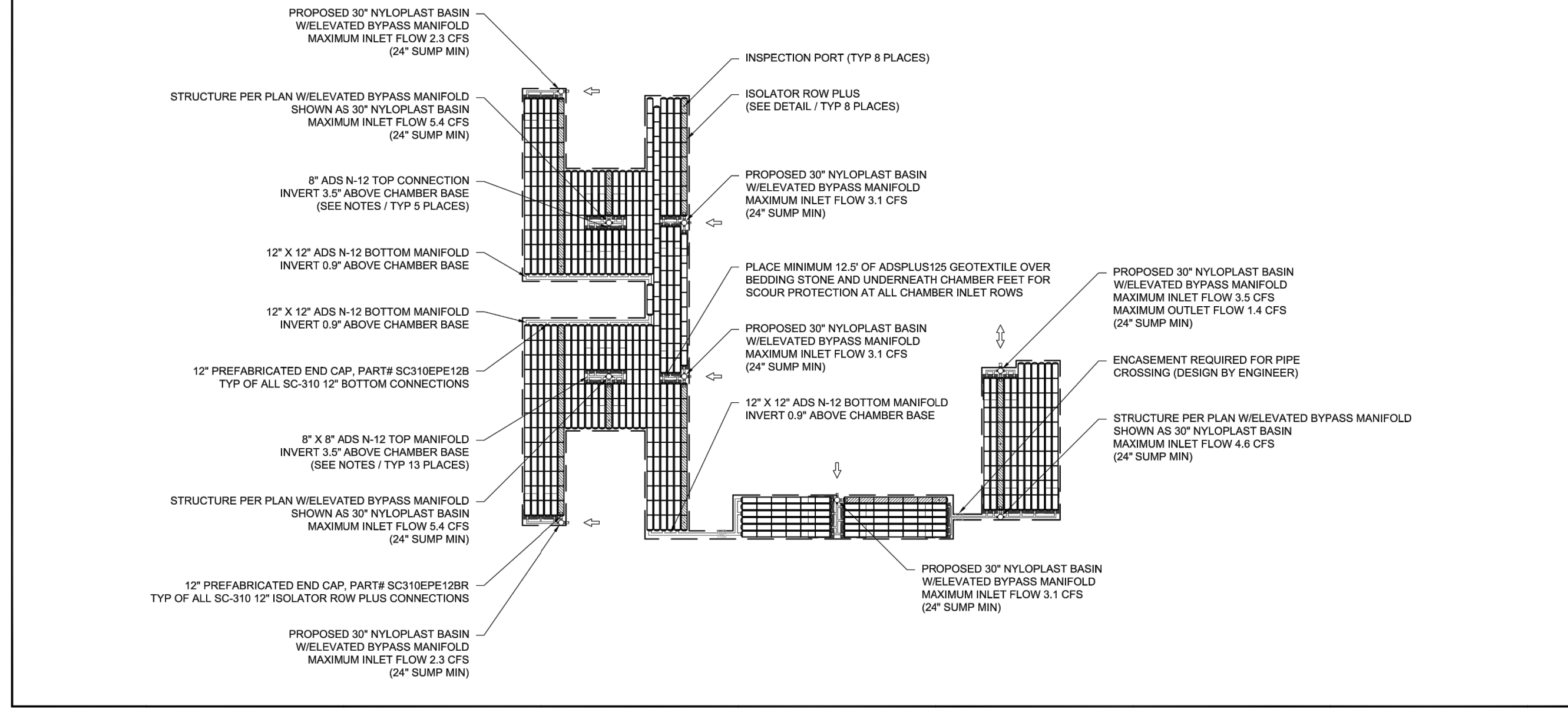
3 SHEET OF 8

**CONCEPTUAL LAYOUT: WEST BED**

564	STORMTECH SC-310 CHAMBERS
174	STORMTECH SC-310 END CAPS
6	STONE ABOVE (in)
6	STONE BELOW (in)
40	% STONE VOID
23427	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)
18478	SYSTEM AREA (ft²)
1435	SYSTEM PERIMETER (ft)

**CONCEPTUAL ELEVATIONS: WEST BED**

14.33	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
8.33	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
7.83	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
7.83	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
7.83	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
6.83	TOP OF STONE
6.33	TOP OF SC-310 CHAMBER
5.29	8" TOP MANIFOLD CONNECTION INVERT
5.08	12" ISOLATOR ROW PLUS CONNECTION INVERT
5.08	12" BOTTOM MANIFOLD INVERT
6.00	BOTTOM OF SC-310 CHAMBER
4.50	BOTTOM OF STONE



- NOTES**
- MANHOLE SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANHOLE SIZING GUIDANCE.
  - DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANHOLE COMPONENTS IN THE FIELD.
  - THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
  - THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSTU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.
  - NOT FOR CONSTRUCTION:** THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

**StormTech Chamber System**  
4640 TREUMAN BLVD  
HILLIARD, OH 43026  
888-892-2694 | WWW.STORMTECH.COM

FORT MYERS, FL  
DATE: 04/22/21  
DRAWN: SLV  
PROJECT #: S233736  
CHECKED: JAL

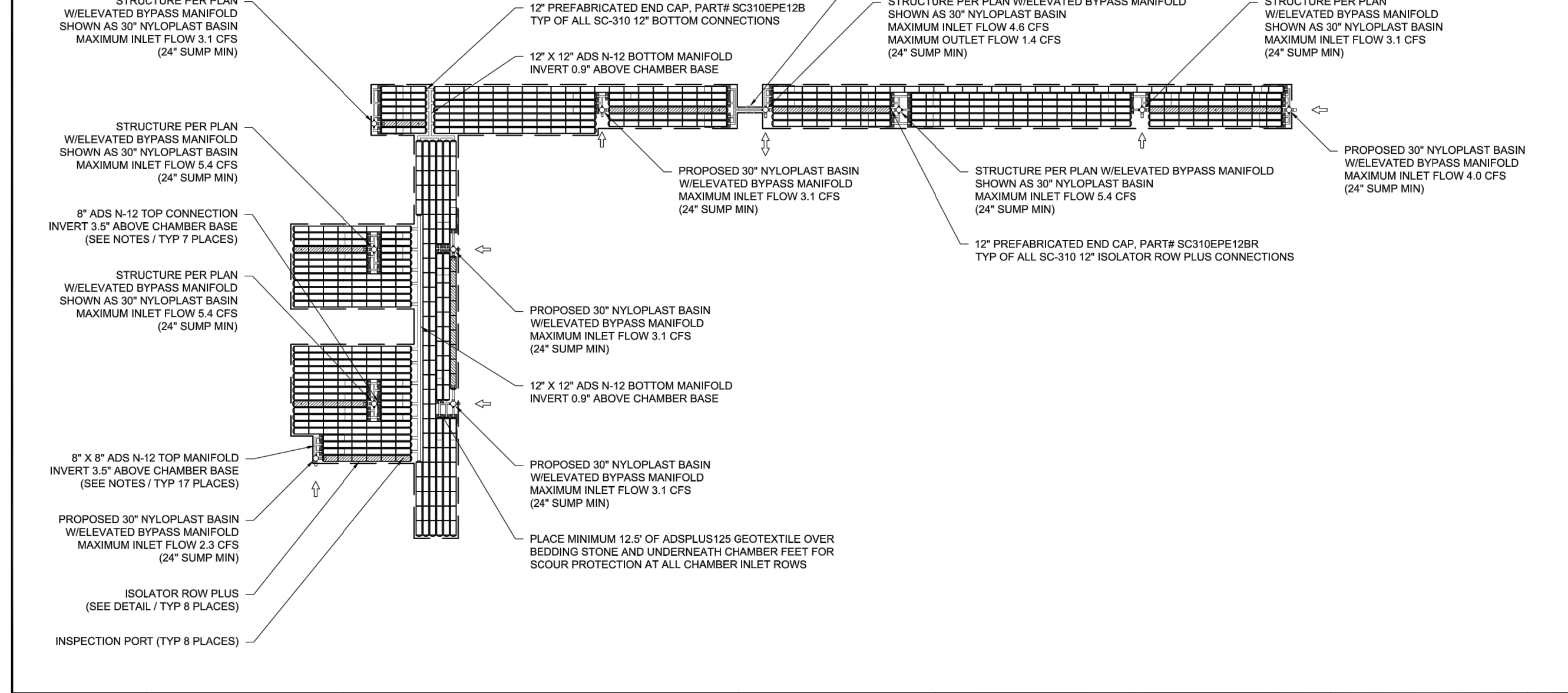
2 SHEET OF 8

**CONCEPTUAL LAYOUT: EAST BED**

702	STORMTECH SC-310 CHAMBERS
178	STORMTECH SC-310 END CAPS
6	STONE ABOVE (in)
6	STONE BELOW (in)
40	% STONE VOID
24789	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)
19699	SYSTEM AREA (ft²)
1621	SYSTEM PERIMETER (ft)

**CONCEPTUAL ELEVATIONS: EAST BED**

14.33	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
8.33	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
7.83	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
7.83	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
7.83	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
6.83	TOP OF STONE
6.33	TOP OF SC-310 CHAMBER
5.29	8" TOP MANIFOLD CONNECTION INVERT
5.08	12" ISOLATOR ROW PLUS CONNECTION INVERT
5.08	12" BOTTOM MANIFOLD INVERT
6.00	BOTTOM OF SC-310 CHAMBER
4.50	BOTTOM OF STONE



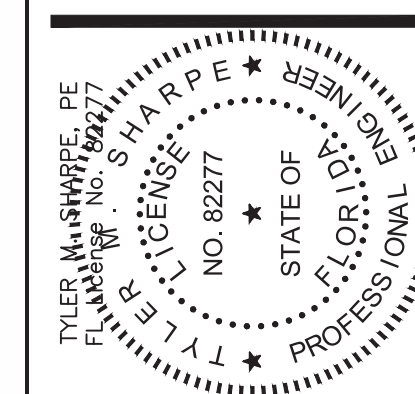
- NOTES**
- MANHOLE SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANHOLE SIZING GUIDANCE.
  - DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANHOLE COMPONENTS IN THE FIELD.
  - THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
  - THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSTU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.
  - NOT FOR CONSTRUCTION:** THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

**StormTech Chamber System**  
4640 TREUMAN BLVD  
HILLIARD, OH 43026  
888-892-2694 | WWW.STORMTECH.COM

FORT MYERS, FL  
DATE: 04/22/21  
DRAWN: SLV  
PROJECT #: S233736  
CHECKED: JAL

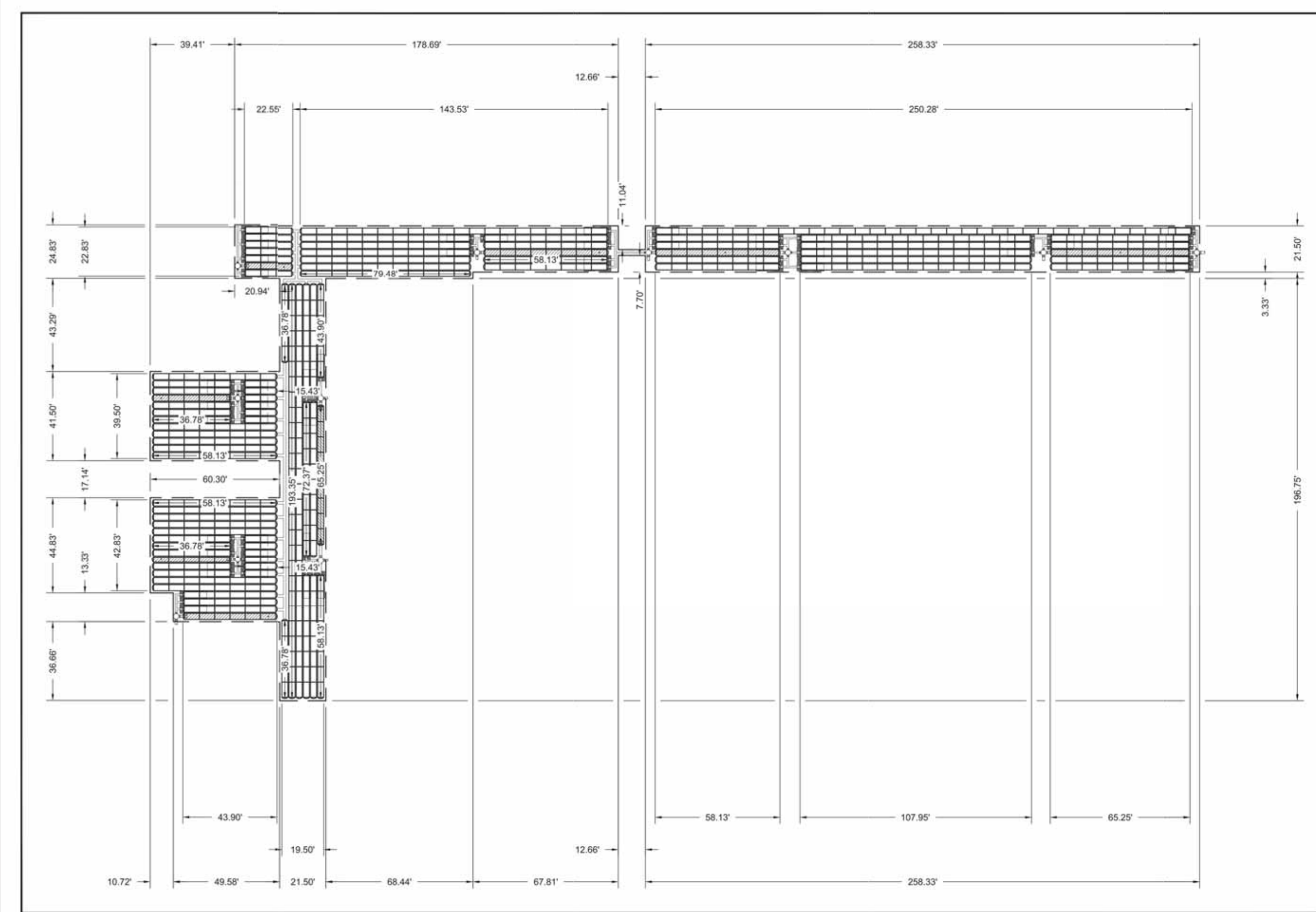
4 SHEET OF 8





NO.	DATE	DESCRIPTION
1	07/28/21	

DATE: JUNE 2021  
PROJECT NO. 2019125-000  
FILE NO. 15-45-24  
SCALE: AS SHOWN



**StormTech Chamber System**  
4640 TRUJAMAN BLVD  
HILLIAND, OH 43026  
888-892-2994 | WWW.STORMTECH.COM

COAT FARM APARTMENTS  
FORT MYERS, FL  
DATE: 04/22/21  
DRAWN: SLV  
PROJECT #: 822736  
CHECKED: JAL

5 SHEET OF 8

**ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 CHAMBER SYSTEMS**

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 <sup>1</sup> A-1, A-2.4, A-3 OR AASHTO M43 <sup>2</sup>	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 <sup>2</sup> 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 <sup>2</sup> 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. <sup>2,3</sup>

PLEASE NOTE:  
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".  
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) MAX LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.  
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.  
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

**NOTES:**  
1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLYETHYLENE) OR ASTM F2416-16a (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".  
2. SC-310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".  
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.  
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.  
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:  
• TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.  
• TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".  
• TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2922 SHALL BE GREATER THAN OR EQUAL TO 400 LBS/IN<sup>2</sup> AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

6 SHEET OF 8

**SC-310 ISOLATOR ROW PLUS DETAIL**  
NTS

COVER ENTIRE ISOLATOR ROW PLUS WITH ADS GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE 5" (1.3 mm) MIN WIDE

STORMTECH HIGHLY RECOMMENDS FLEXSTORM INSERTS IN ANY UPSTREAM STRUCTURES WITH OPEN GRATES

ELEVATED BYPASS MANIFOLD

SC-310 CHAMBER

OPTIONAL INSPECTION PORT

SC-310 END CAP

ONE LAYER OF ADSPLUS125 WOVEN GEOTEXTILE BETWEEN FOUNDATION STONE AND CHAMBERS 4" (1.3 mm) MIN WIDE CONTINUOUS FABRIC WITHOUT SEAMS

12" (300 mm) HOPE ACCESS PIPE REQUIRED USE FACTORY PRE-FABRICATED END CAP WITH FLAMP PART #: SC310PE12BR

SUMP DEPTH TBD BY SITE DESIGN ENGINEER (24" (600 mm) MIN RECOMMENDED)

NYLOPLAST

CONCRETE COLLAR NOT REQUIRED FOR UNPAVED APPLICATIONS

CONCRETE COLLAR

PAVEMENT

8" NYLOPLAST INSPECTION PORT BODY (PART# 2708AG4PKIT) OR TRAFFIC RATED BOX W/ SOLID LOCKING COVER

4" (100 mm) SOR 35 PIPE

4" (100 mm) INSERTA TEE TO BE CENTERED ON CORRUGATION CREST

STORMTECH CHAMBER

**4" PVC INSPECTION PORT DETAIL (SC SERIES CHAMBER)**  
NTS

NOTE: INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION CREST.

**INSPECTION & MAINTENANCE**

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT

A. INSPECTION PORTS (IF PRESENT)

A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN

A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED

A.3. USING A B.4584 CRIT AND STRAIN ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG

A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)

A.5. IF SEDIMENT IS AT OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

B. ALL ISOLATOR ROW PLUS ROWS

B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS

B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE

i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY

ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE

B.3. IF SEDIMENT IS AT OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS

A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED

B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN

C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

**NOTES**

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.

2. CONDUCT JETTING AND VACUUMING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

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**SC-310 TECHNICAL SPECIFICATION**  
NTS

90.7" (2304 mm) ACTUAL LENGTH

85.4" (2169 mm) INSTALLED LENGTH

BUILD ROW IN THIS DIRECTION

START END

OVERLAP NEXT CHAMBER HERE (OVER SMALL CORRUGATION)

9" (251 mm)

15.8" (396 mm)

34.0" (864 mm)

16.8" (406 mm)

**NOMINAL CHAMBER SPECIFICATIONS**

PART #	STUB	A	B	C
SC310PE01T / SC310PE01TFC	6" (150 mm)	9.6" (244 mm)	5.8" (147 mm)	—
SC310PE06B / SC310PE06BFC	—	—	—	0.5" (13 mm)
SC310PE07T / SC310PE07TFC	8" (200 mm)	11.9" (302 mm)	3.5" (89 mm)	—
SC310PE08B / SC310PE08BFC	—	—	—	0.6" (16 mm)
SC310PE10T / SC310PE10TFC	10" (250 mm)	12.7" (323 mm)	1.4" (36 mm)	—
SC310PE10B / SC310PE10BFC	—	—	—	0.7" (18 mm)
SC310PE12B	12" (300 mm)	13.5" (343 mm)	—	0.9" (23 mm)
SC310PE12BFC	—	—	—	0.9" (23 mm)

ALL STUBS, EXCEPT FOR THE SC310PE12B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2994.

\*FOR THE SC310PE12B THE 12" (300 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 0.25" (6 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL.

**NYLOPLAST DRAIN BASIN**  
NTS

INTEGRATED DUCTILE IRON FRAME & GRATE/SOLID TO MATCH BASIN O.D.

16" (457 mm) MIN WIDTH

AASHTO H-20 CONCRETE SLAB 8" (203 mm) MIN THICKNESS

TRAFFIC LOADS: CONCRETE DIMENSIONS ARE FOR GUIDELINE PURPOSES ONLY. ACTUAL CONCRETE SLAB MUST BE DESIGNED GIVING CONSIDERATION FOR LOCAL SOIL CONDITIONS, TRAFFIC LOADING & OTHER APPLICABLE DESIGN FACTORS

ADAPTER ANGLES VARIABLE 0°-360° ACCORDING TO PLANS

VARIABLE SUMP DEPTH ACCORDING TO PLANS

8" (152 mm) MIN ON 8-24" (200-600 mm)

10" (254 mm) MIN ON 30" (750 mm)

4" (102 mm) MIN ON 8-24" (200-600 mm)

6" (152 mm) MIN ON 30" (750 mm)

BACKFILL MATERIAL BELOW AND TO SIDES OF STRUCTURE SHALL BE ASTM D2321 CLASS II OR II CRUSHED STONE OR GRAVEL AND BE PLACED UNIFORMLY IN 12" (305 mm) LIFTS AND COMPACTED TO MIN OF 90%

WATER TIGHT JOINT (CORRUGATED HOPE SHOWN)

VARIOUS TYPES OF INLET AND OUTLET ADAPTERS AVAILABLE: 4-30" (100-750 mm) FOR CORRUGATED HOPE

INVERT ACCORDING TO PLANS/THE OFF

9" (251 mm)

12" (300 mm) MIN (FOR AASHTO H-20)

**NOTES**

1. 8-30" (200-750 mm) GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05

2. 13-30" (300-750 mm) FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05

3. DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS

4. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HOPE (ADS & HANCOCK DUAL WALL) & SOR 35 PVC

5. FOR COMPLETE DESIGN AND PRODUCT INFORMATION: WWW.NYLOPLAST-US.COM

6. TO ORDER CALL: 888-821-6710

A	PART #	GRATE/SOLID COVER OPTIONS
8"	2806AG	PEDESTRIAN LIGHT DUTY
10"	2810AG	PEDESTRIAN LIGHT DUTY
12"	2812AG	PEDESTRIAN LIGHT DUTY
15"	2815AG	PEDESTRIAN LIGHT DUTY
18"	2818AG	PEDESTRIAN LIGHT DUTY
24"	2824AG	PEDESTRIAN LIGHT DUTY
30"	2830AG	PEDESTRIAN LIGHT DUTY

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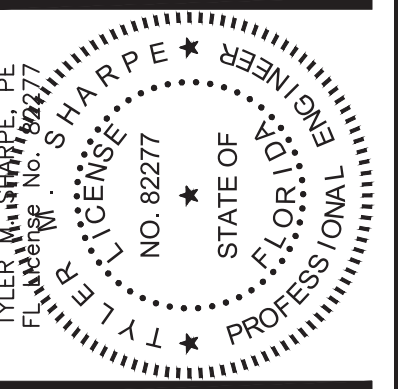
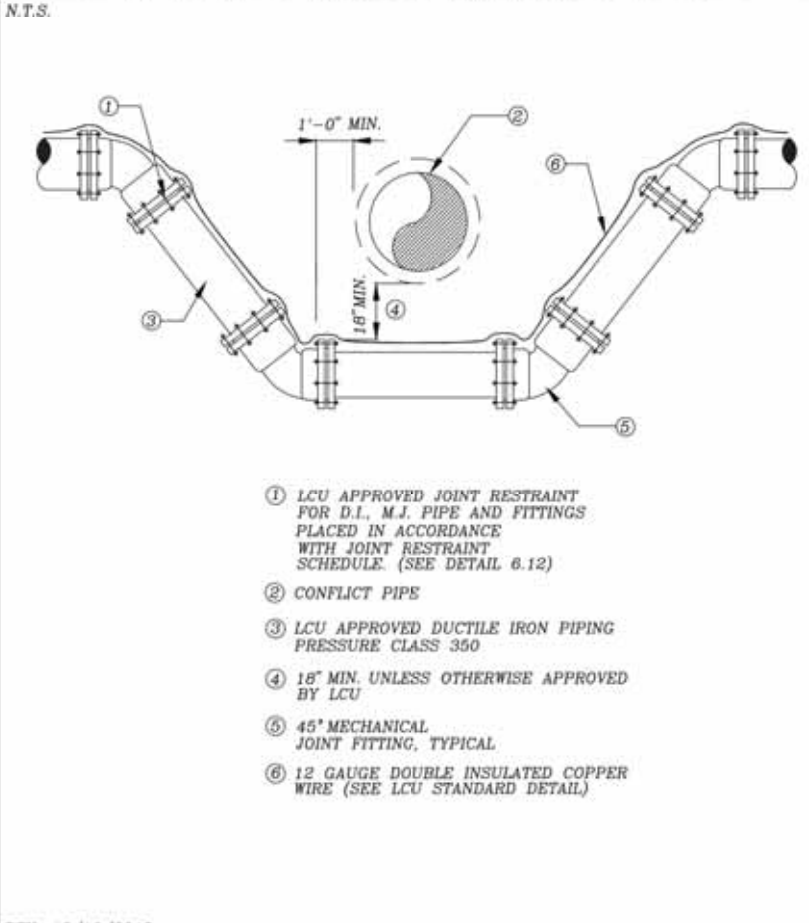


Table with columns: DATE, DESCRIPTION, NO.

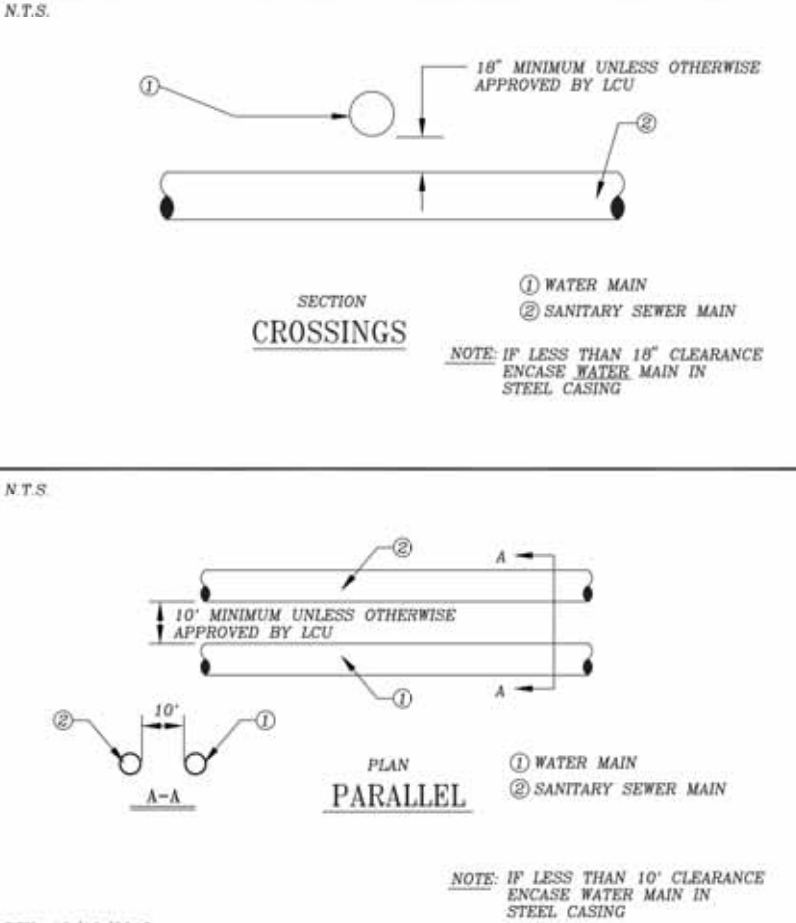
DATE: JUNE 2021 PROJECT NO. 2019125-000 FILE NO. 15-45-24 SCALE: AS SHOWN

STANDARD DETAIL NO. 6.10 LEE COUNTY UTILITIES WATER PRESSURE LINE VERTICAL OFFSET W/ DUCTILE IRON MJ FITTINGS & PIPE



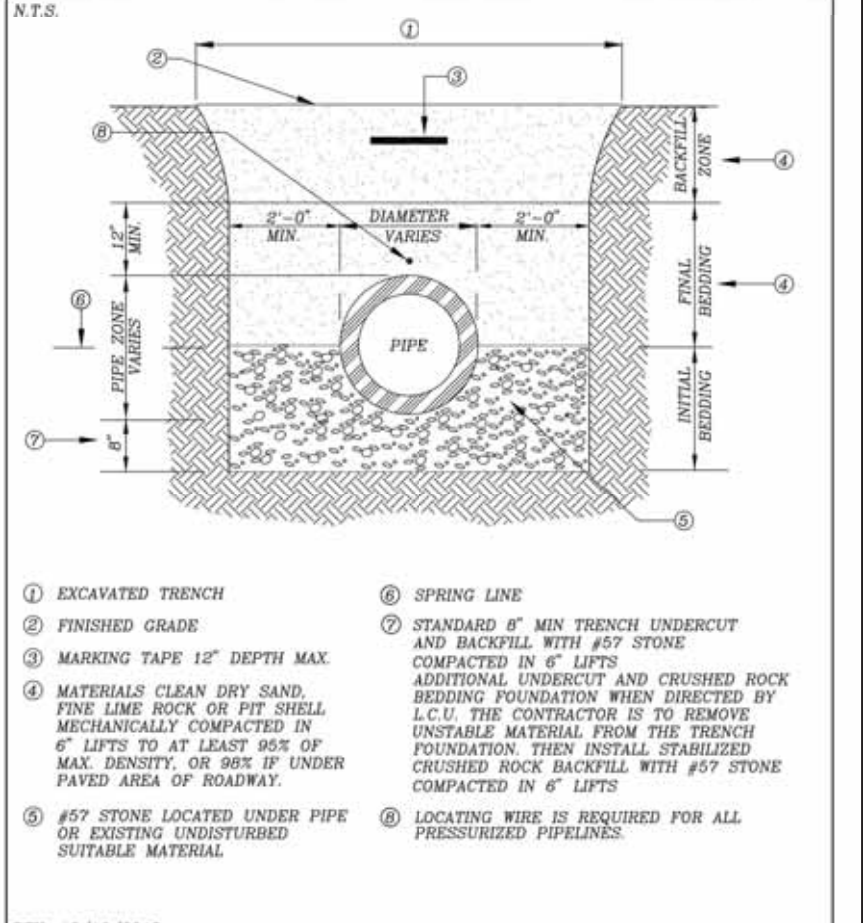
REV. 12/10/2015

STANDARD DETAIL NO. 6.8 LEE COUNTY UTILITIES WATER AND SEWER CROSSING DETAIL



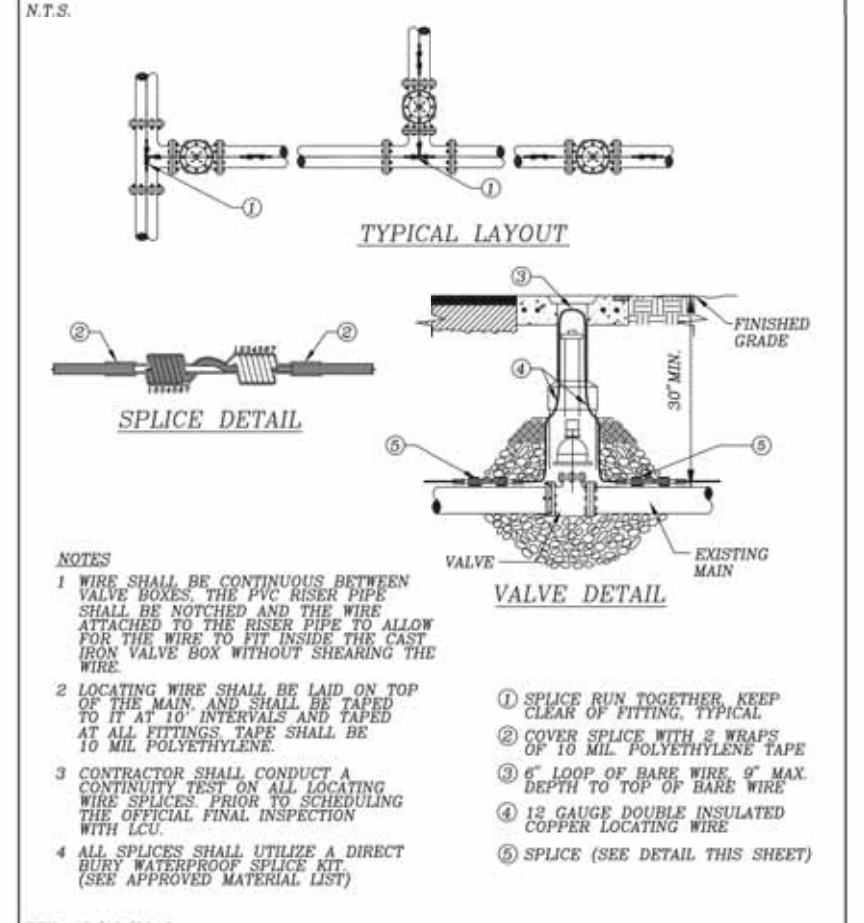
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STANDARD DETAIL NO. 6.5 LEE COUNTY UTILITIES TRENCH CROSS SECTION



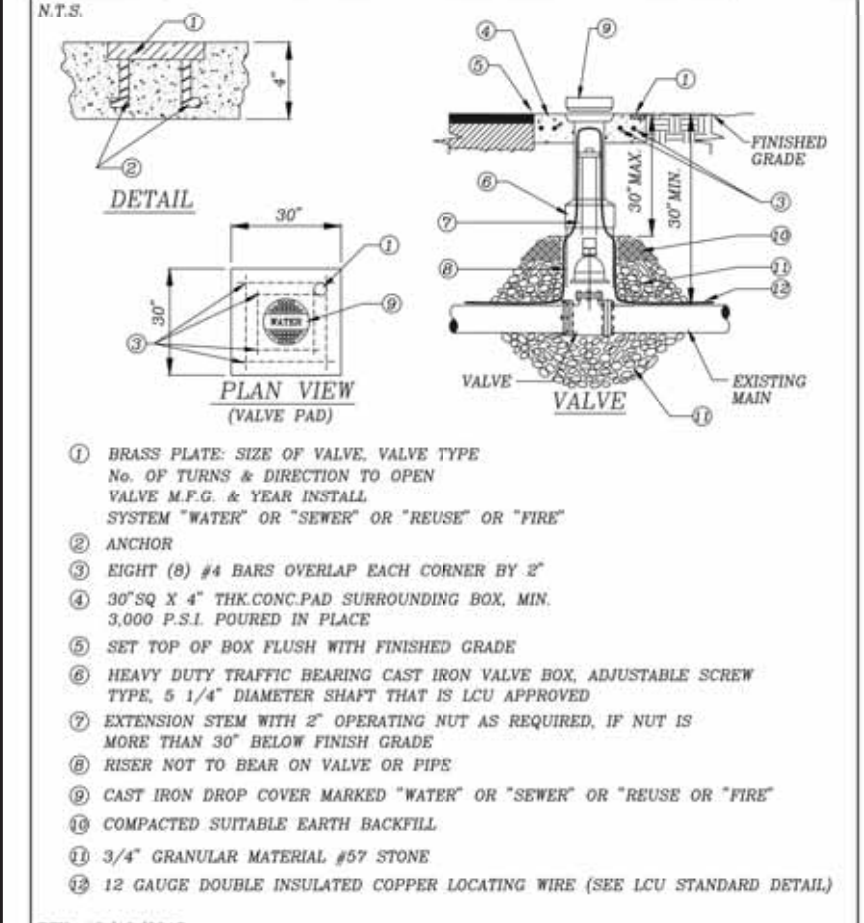
REV. 12/10/2015

STANDARD DETAIL NO. 6.3 LEE COUNTY UTILITIES LOCATING WIRE FOR PRESSURE MAINS



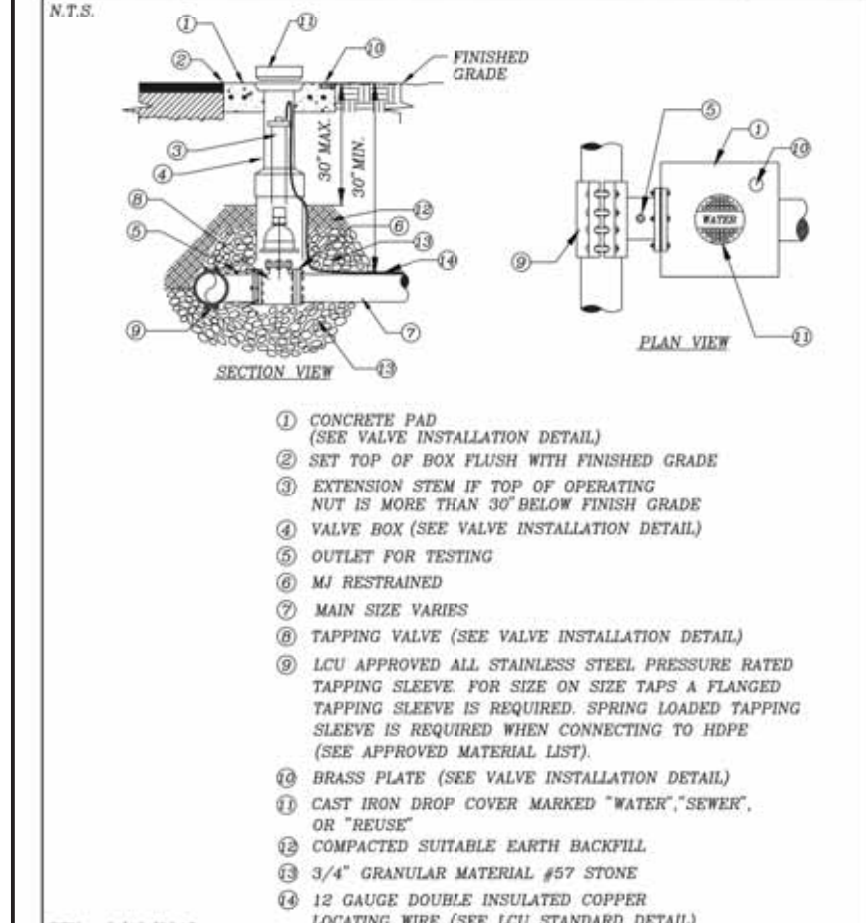
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STANDARD DETAIL NO. 6.2 LEE COUNTY UTILITIES VALVE INSTALLATION



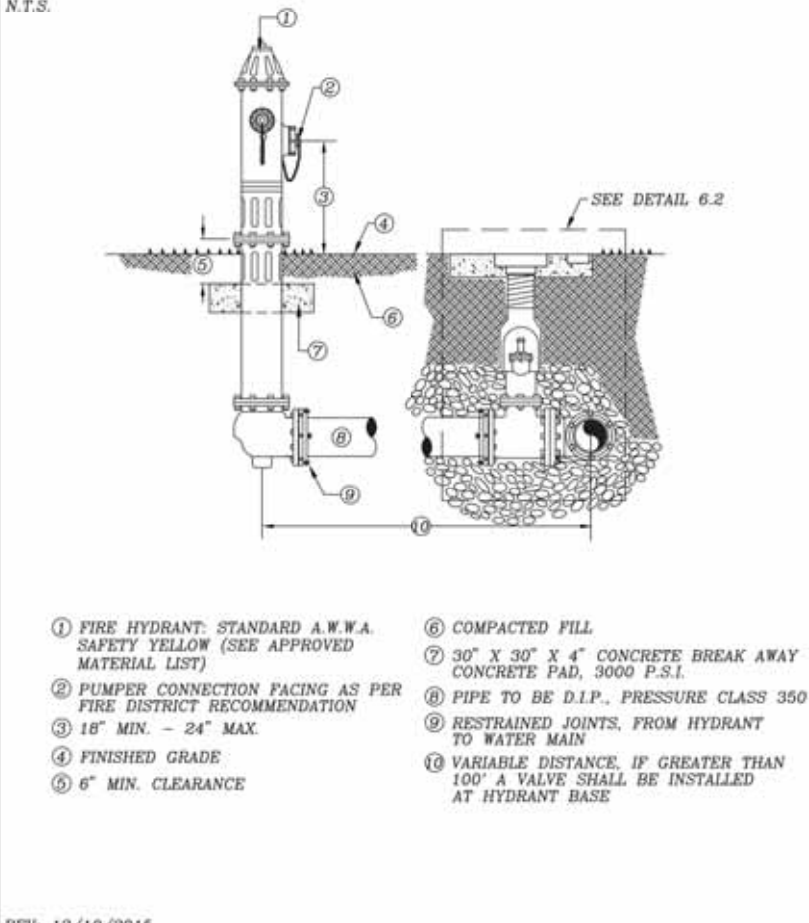
REV. 12/10/2015

STANDARD DETAIL NO. 6.1 LEE COUNTY UTILITIES TAPPING SLEEVE AND VALVE



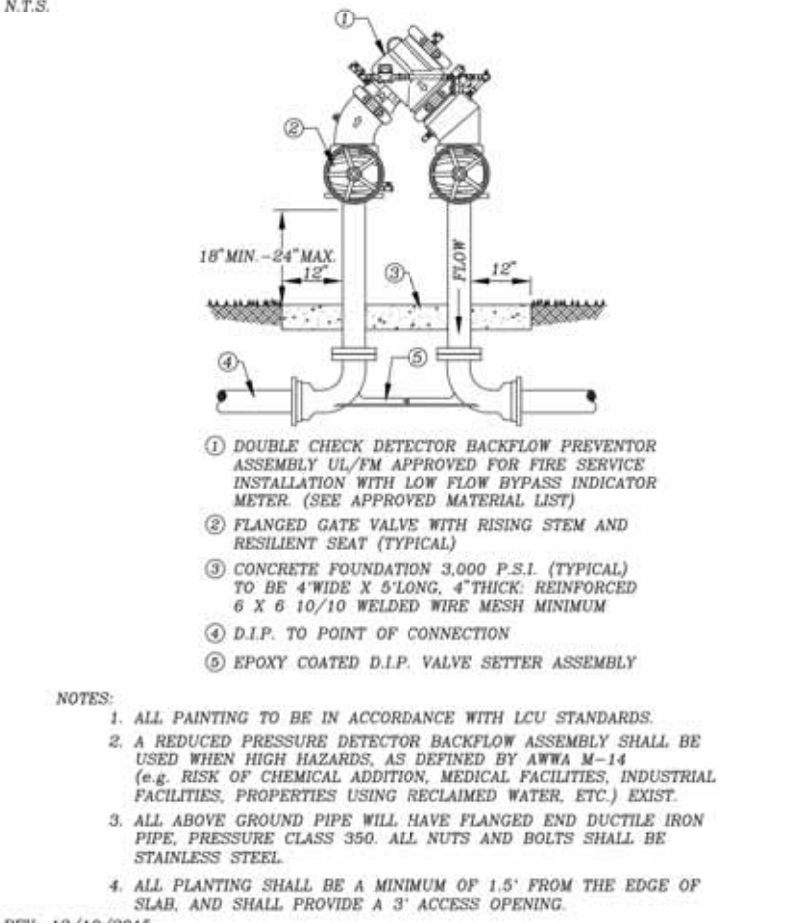
REV. 12/10/2015

STANDARD DETAIL NO. 6.24 LEE COUNTY UTILITIES FIRE HYDRANT ASSEMBLY



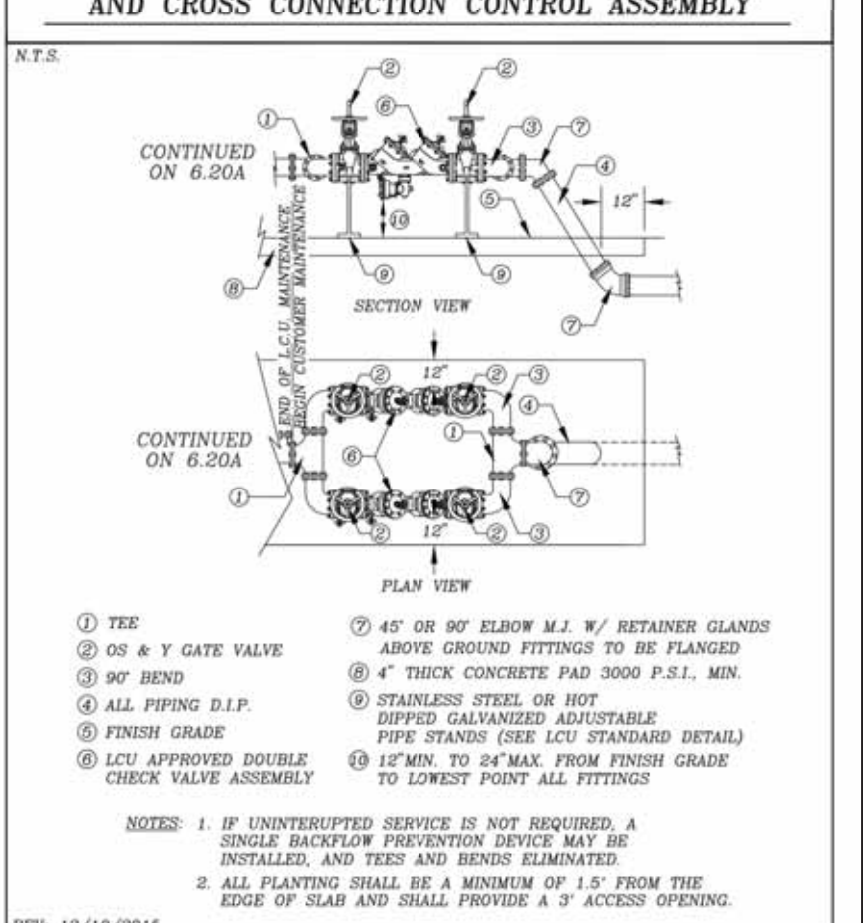
REV. 12/10/2015

STANDARD DETAIL NO. 6.23 LEE COUNTY UTILITIES COMPACT CROSS CONNECTION CONTROL ASSEMBLY



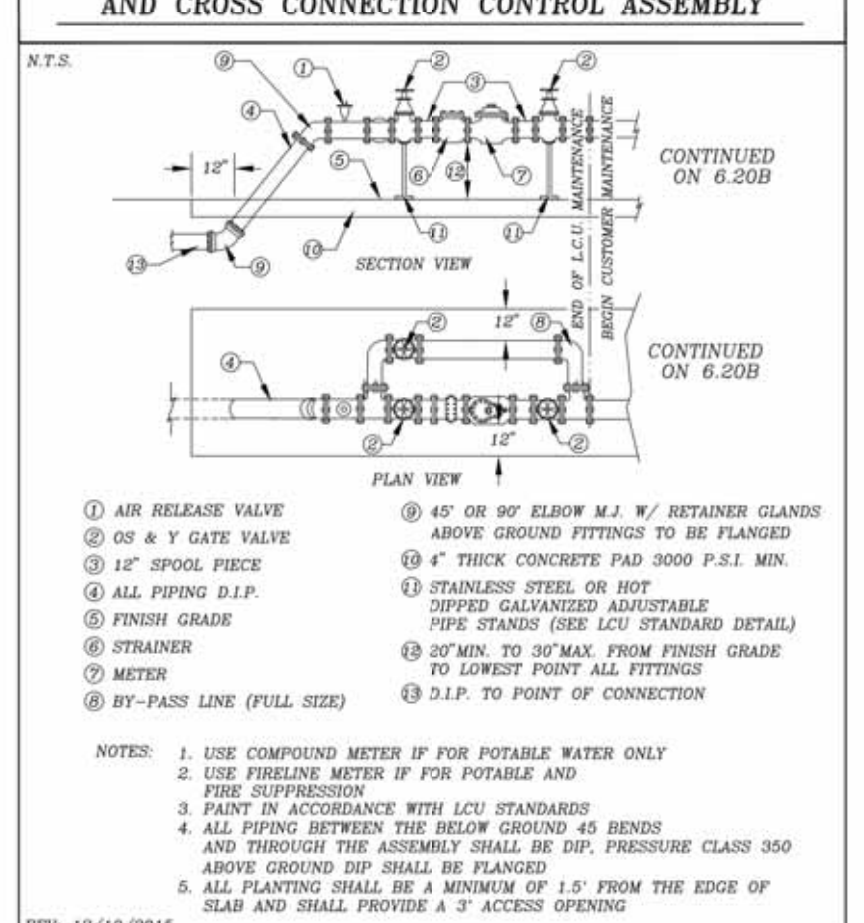
REV. 12/10/2015

STANDARD DETAIL NO. 6.20B LEE COUNTY UTILITIES 3" OR LARGER METER AND CROSS CONNECTION CONTROL ASSEMBLY



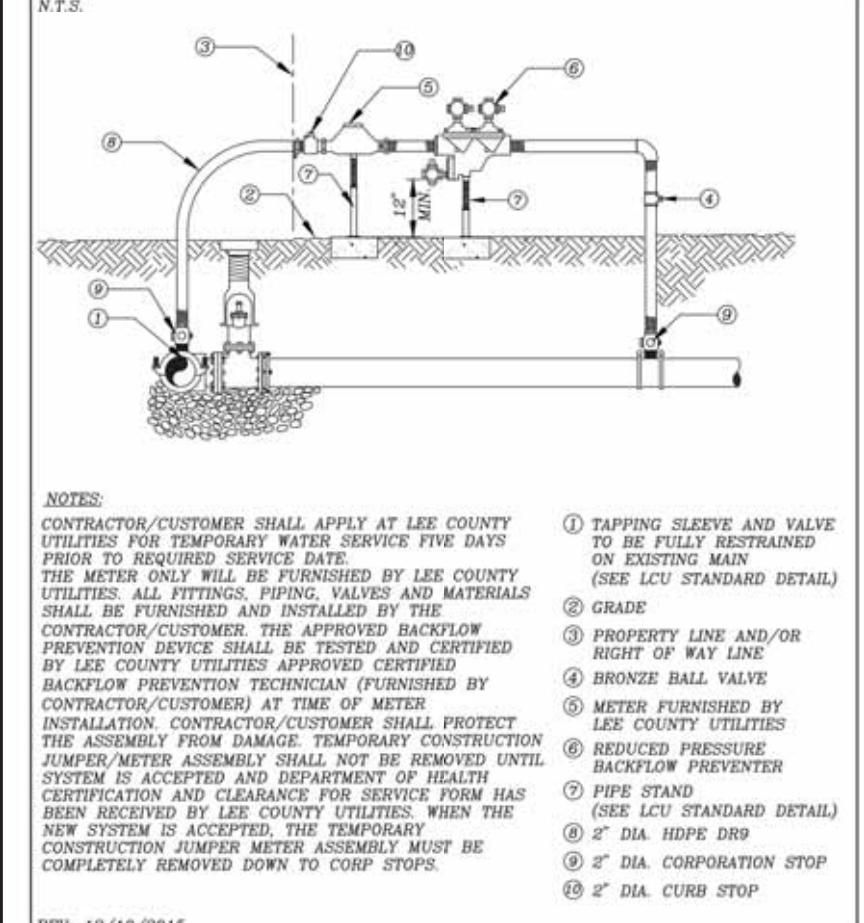
REV. 12/10/2015

STANDARD DETAIL NO. 6.20A LEE COUNTY UTILITIES 3" OR LARGER METER AND CROSS CONNECTION CONTROL ASSEMBLY



REV. 12/10/2015

STANDARD DETAIL NO. 6.15 LEE COUNTY UTILITIES TEMPORARY CONSTRUCTION JUMPER WITH METER



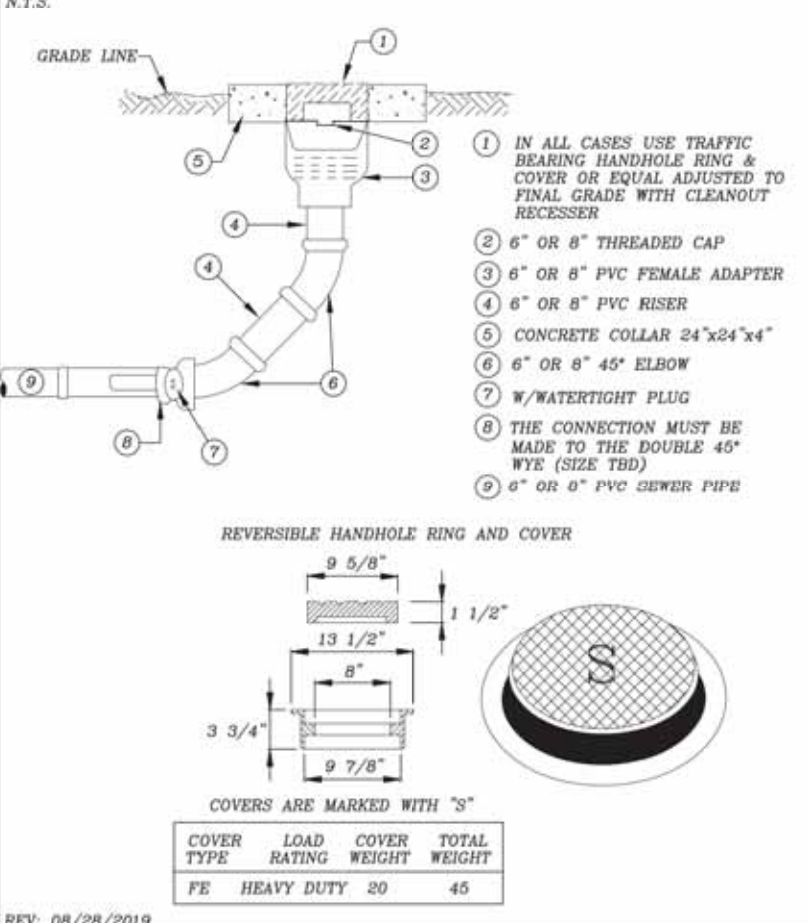
REV. 12/10/2015

STANDARD DETAIL NO. 6.12 LEE COUNTY UTILITIES RESTRAINED LENGTH SCHEDULE

Tables showing ductile iron pipe and PVC pipe restrained length schedules. Columns include pipe size, horizontal bends, dead end, and horizontal tee.

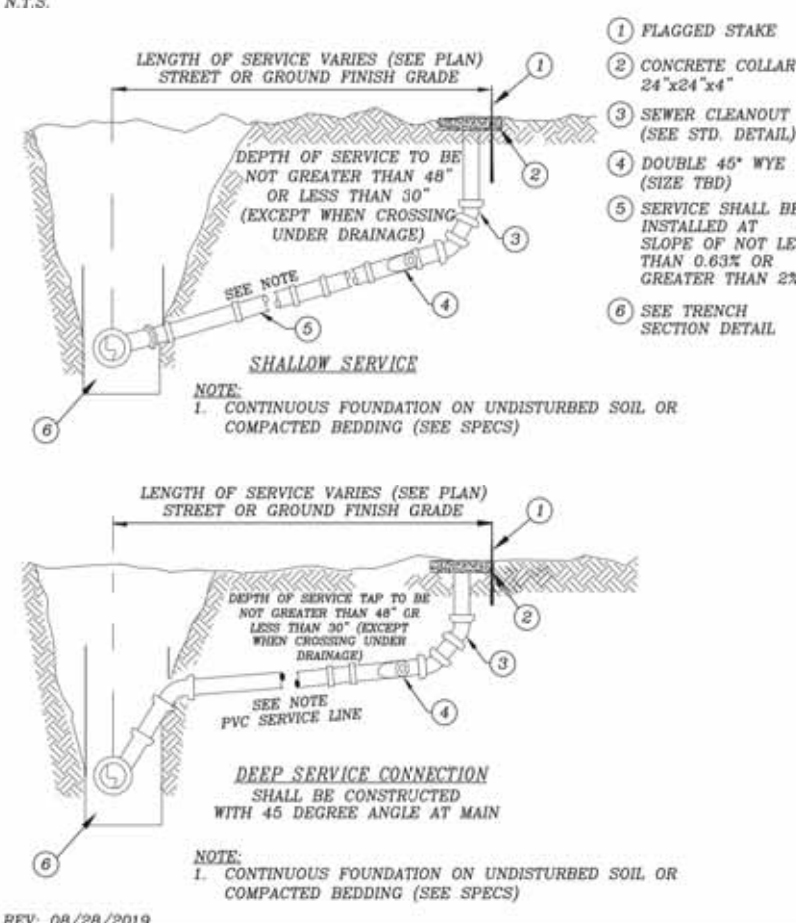
REV. 12/10/2015

STANDARD DETAIL NO. 6.40 LEE COUNTY UTILITIES 6" OR 8" SEWER CLEAN-OUT DETAIL



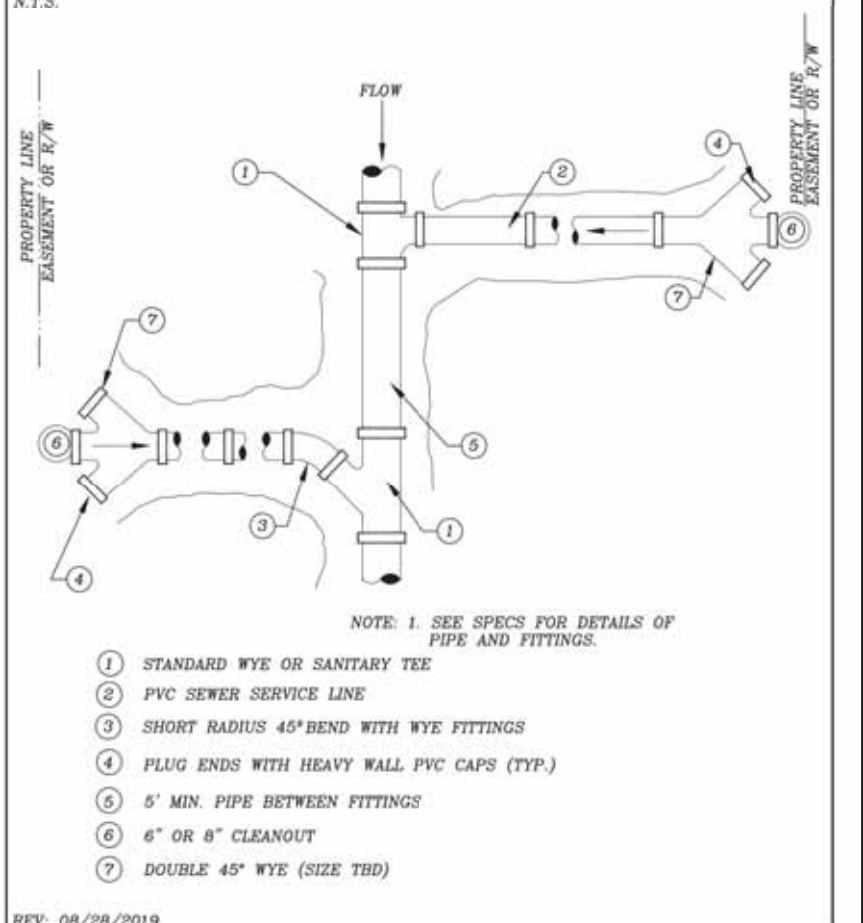
REV. 06/28/2019

STANDARD DETAIL NO. 6.39 LEE COUNTY UTILITIES STANDARD SEWER SERVICE LATERAL



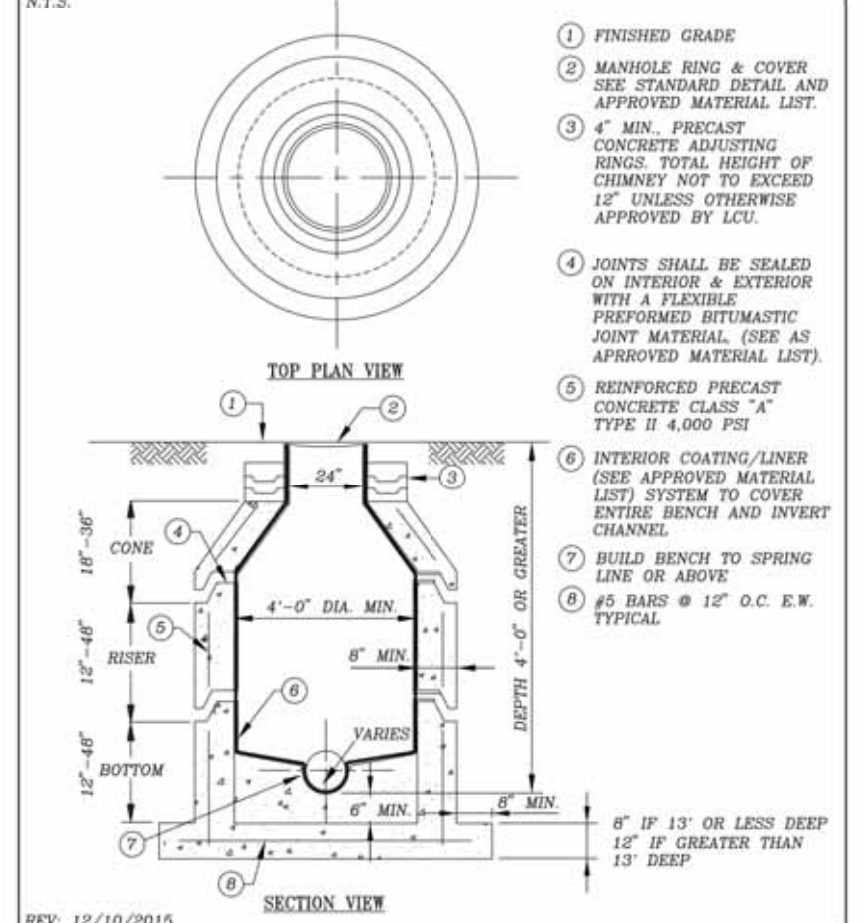
REV. 06/28/2019

STANDARD DETAIL NO. 6.38 LEE COUNTY UTILITIES STANDARD SEWER SERVICE LATERALS



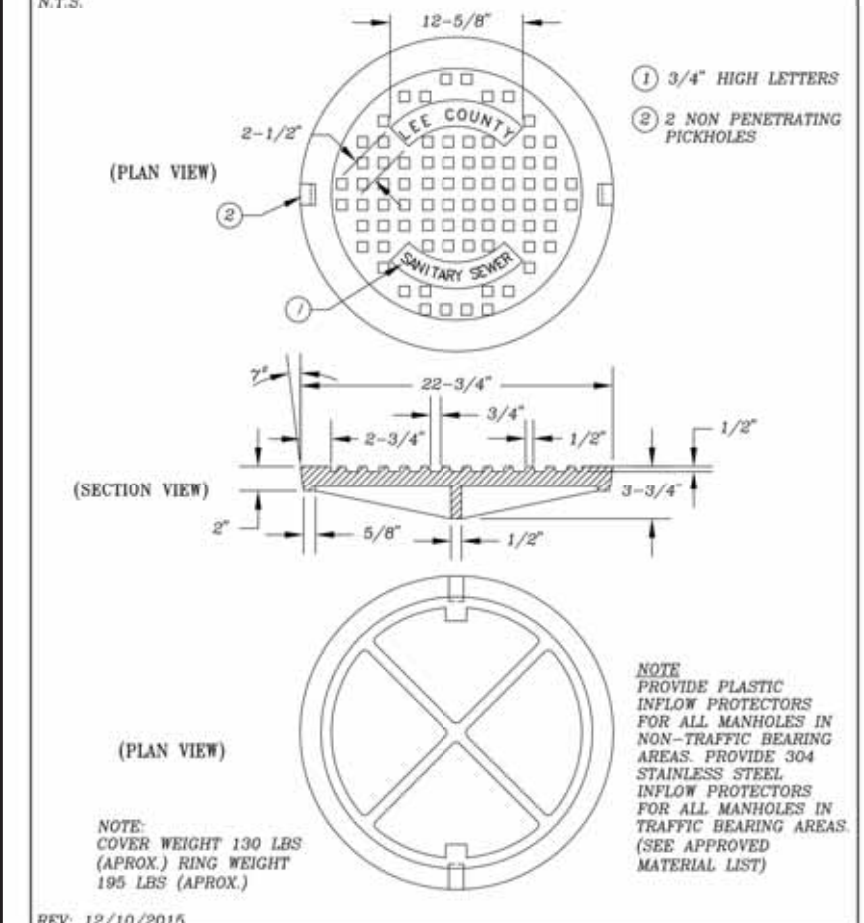
REV. 06/28/2019

STANDARD DETAIL NO. 6.33 LEE COUNTY UTILITIES PRECAST MANHOLE-CENTRIC



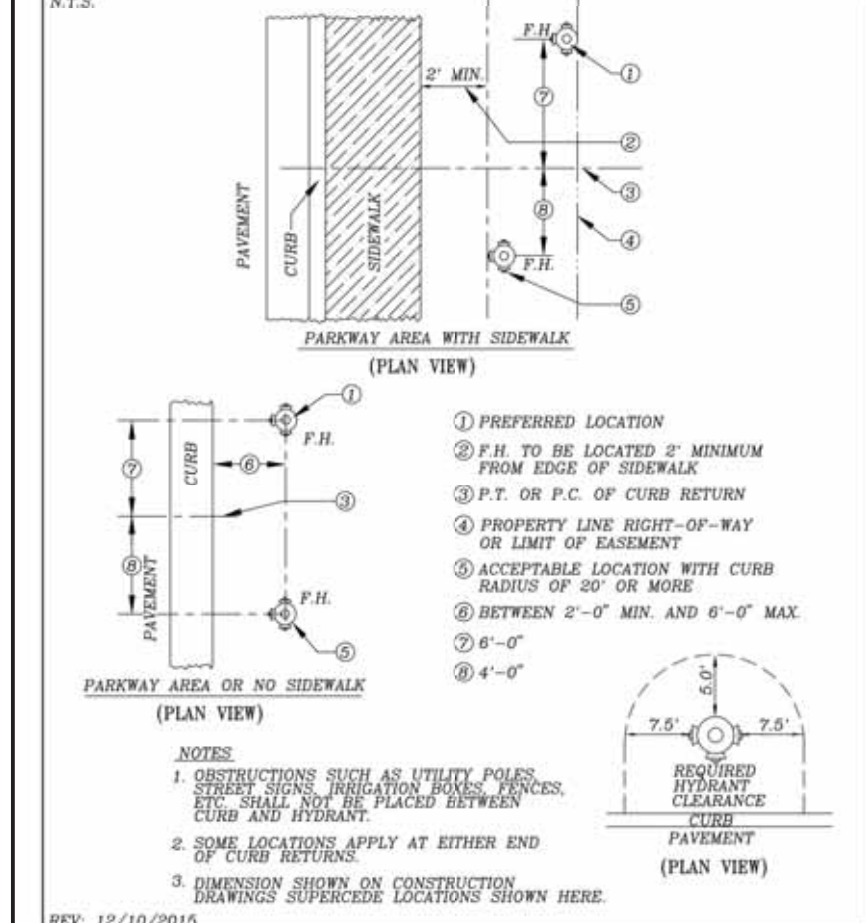
REV. 12/10/2015

STANDARD DETAIL NO. 6.30 LEE COUNTY UTILITIES MANHOLE FRAME COVER



REV. 12/10/2015

STANDARD DETAIL NO. 6.25 LEE COUNTY UTILITIES FIRE HYDRANT LOCATIONS/CLEARANCE



REV. 12/10/2015

THIS DRAWING CONTAINS DETAILS DESIGNED BY STANDARD TO, AND FURNISHED BY LEE COUNTY UTILITIES SAID DETAILS WERE NOT DESIGNED BY JOHNSON ENGINEERING.