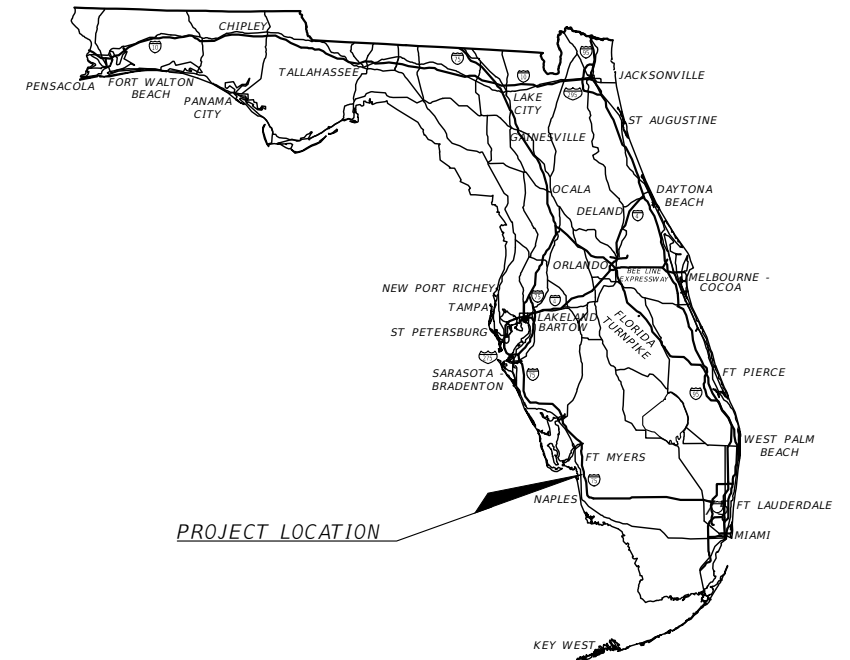


CITY OF
BONITA SPRINGS

CONTRACT PLANS

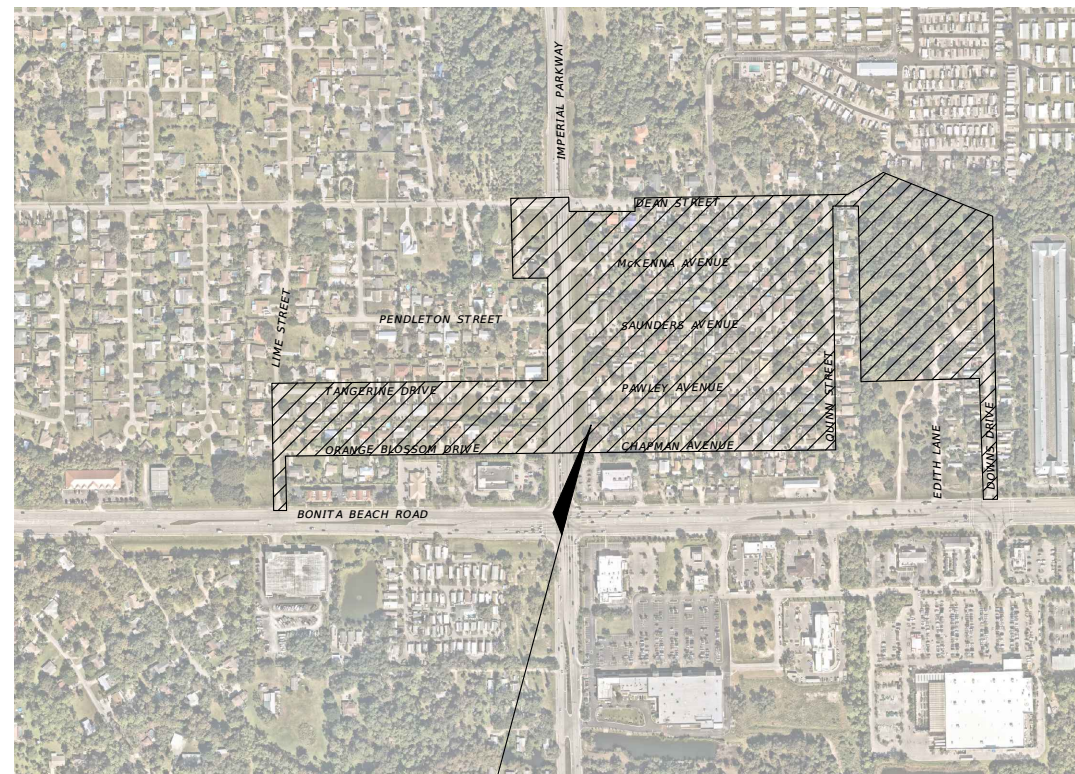
LEE COUNTY

QUINN STREET, DEAN STREET, DOWNS
DRIVE, AND WEST OF IMPERIAL PARKWAY
NEIGHBORHOOD DRAINAGE IMPROVEMENTS



Sheet Index

Sheet Number	Sheet Title
01	KEY SHEET
02	SIGNATURE SHEET
03	SYMBOLS, LEGEND, & GENERAL NOTES
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97 - 100	EROSION CONTROL DETAILS
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PROJECT AREA



**90% PLANS
NOT FOR CONSTRUCTION**

ENGINEER OF RECORD:

P.E. NO.:
 COMPANY NAME: AMERICAN STRUCTUREPOINT INC.
 ADDRESS: 5405 CYPRESS CENTER DRIVE, SUITE 310
 TAMPA, FL, 33609
 CONTRACT NO.: *****
 VENDOR NO.: **_*****
 CERTIFICATE OF AUTHORIZATION NO.: *****

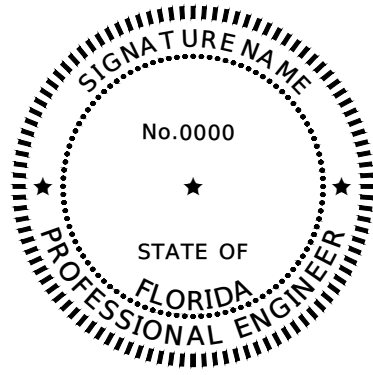
GOVERNING STANDARD PLANS:
 Florida Department of Transportation, FY2023-24 Standard plans for
 Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available
 at the following website:
<http://www.fdot.gov/design/Standardplans.shtm>

APPLICABLE IRs:

GOVERNING STANDARD SPECIFICATIONS:
 Florida Department of Transportation, January, 2023 Standard
 Specifications for Road and Bridge Construction at the following
 website:
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
		01

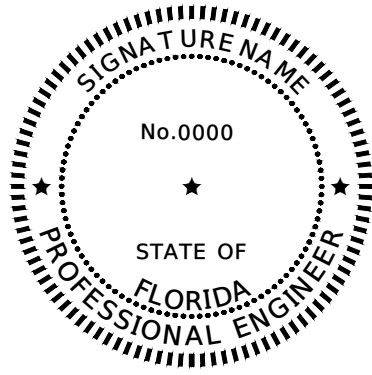


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THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

PLAN INDEX



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THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

PLAN INDEX

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 ENGINEER OF RECORD COMPANY NAME ENGINEER OF RECORD COMPANY STREET ENGINEER OF RECORD CITY, STATE ZIP CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
----	----							

SIGNATURE SHEET

02

EXISTING SURVEY LEGEND:	
A/C = AIR CONDITIONER	--- -- -- -- -- = OVERHEAD UTILITY LINE
ARV = AIR RELEASE VALVE	===== = TOP OF BANK
CPP = CORRUGATED PLASTIC PIPE	----- = TOE OF SLOPE
CM = CONCRETE MONUMENT	----- = WETLANDS
CMP = CORRUGATED METAL PIPE	----- = GUARD RAIL
CO = CLEAN OUT	----- = WOODS LINE
(D) = DEED INFORMATION	----- = CONTOUR ELEVATION
ENG = ENGINEERING	----- = BARBED WIRE FENCE
EL = ELEVATION	----- = WOOD PRIVACY FENCE
ERCP = ELLIPTICAL REINFORCED CONCRETE PIPE	----- = CHAIN LINK FENCE
HDPE = HIGH-DENSITY POLYETHYLENE PIPE	----- = FIRE HYDRANT
INC = INCORPORATED	----- = GUY ANCHOR
INV = INVERT	----- = LIGHT POLE
FCM = FOUND CONCRETE MONUMENT	----- = OAK TREE, UNLESS OTHERWISE NOTED
FIP = FOUND IRON PIPE	----- = PALM TREE
FIR = FOUND IRON ROD	----- = PINE TREE
FIRC = FOUND IRON ROD AND CAP	----- = CYPRESS TREE
FMAGD = FOUND MAG NAIL AND DISK	----- = UNKNOWN TREE
FNL = FOUND NAIL	----- = UTILITY POLE
FPKD = FOUND PARKER-KALON NAIL AND DISK	----- = SEWER MANHOLE
LB = LICENSED BUSINESS	----- = SINGLE SUPPORT SIGN
M/H = MANHOLE	----- = DRAINAGE MANHOLE
PLS = PROFESSIONAL SURVEYOR & MAPPER	----- = TELEPHONE SERVICE RISER
PSM = PROFESSIONAL SURVEYOR & MAPPER	----- = WATER METER
PVC = POLY-VINYL CHLORIDE	----- = WATER VALVE COVER
R/W = RIGHT OF WAY	----- = ELECTRIC METER
RCP = REINFORCED CONCRETE PIPE	----- = SANITARY SEWER VALVE COVER
SIRC = SET 5/8" IRON ROD AND CAP "AIM ENG 3114"	----- = AIR CONDITIONER UNIT
SMAGD = SET MAG-NAIL & DISK	----- = WIRE PULL BOX
	----- = CLEAN OUT
	----- = AIR RELEASE VALVE
	----- = BOLLARD
	----- = TRANSFORMER
	----- = ELECTRICAL OUTLET
	----- = CABLE TELEVISION PEDESTAL
	----- = ELECTRIC SERVICE PANEL
	----- = FIBER OPTIC CABLE MARKER
	----- = FLAG POLE
	----- = IRRIGATION VALVE
	----- = CONCRETE UTILITY POLE
	----- = SIGNAL MAST ARM
	----- = WELL
	----- = SHARED UTILITY POLE
	----- = VENT
	----- = FIRE DEPARTMENT CONNECTION
	----- = UNDERGROUND UTILITY FLAG

GENERAL NOTES:

- Size, material, depth, and location of known existing drainage or sanitary sewer facilities is from available historic information and above-ground inspection and measurement. The contractor shall verify all utility information contained in the contract documents prior to any construction which would be impacted by facilities not located as shown in the contract documents. The cost to correct any facilities installed prior to verification of existing condition by the contractor shall be at no cost to the owner.
- The location of utilities and structures, both surface and subsurface, are shown on the plans from data available at the time of survey and are not necessarily complete or correct. Determining the exact location and protecting utilities and structures is the responsibility of the contractor. During construction, the contractor shall protect all existing utilities and structures whether shown on the plans or not. If damage is caused, the contractor shall be responsible for the repair and restoration of same in accordance with the requirements of the utility owner and for any resulting contingent damage and cost. All repairs shall be at no cost to the owner.
- All survey information obtained from a licensed Florida Professional Surveyor and Mapper and utilized as supporting data in production of design plans and for construction on subject project. The professional surveyor and mapper of record is:
Cameron M. Harmon, PSM 7483
AIM Engineering & Surveying, Inc.
Licensed Business No. 3114
2161 Fowler Street, Suite 100
Fort Meyers, FL 33901
- It shall be the contractor's responsibility to maintain in service all existing utilities encountered during construction unless otherwise indicated in the drawings.
- The contractor shall contact and coordinate with the applicable utility company 48 hours before working with or around existing utilities.
- The contractor shall preserve and protect property markers, section corners, survey marks, and bench marks such as stones, pipes, or other monuments encountered. If the contractor must disturb the property markers or monuments, their horizontal and vertical location shall be determined and recorded by a registered land surveyor and the owner notified before disturbing. All property markers and monuments shall be re-established by a registered land surveyor at no cost to the owner.
- The contractor is responsible for maintaining traffic and usage of the existing streets adjacent to the project area. All traffic maintenance control shall be in accordance with the Florida Manual of Traffic Control.
- The contractor shall coordinate all construction activities with the owners of property on or near which construction is taking place. The contractor shall accommodate the normal activities of property owners along the project route.
- The contractor shall provide safe, continuous vehicular access to all properties for normal daily use and for emergency services.
- The contractor shall notify residences at least 48 hours in advance of any disruption in service, including driveway cuts.
- All disturbed areas including, but not limited to, streets, drives, walks, and lawns, shall be restored to original or better condition.
- The contractor shall ensure that positive and adequate drainage is maintained at all times within the project limits. This may include, but not be limited to, replacement or reconstruction of existing drainage structures that have been damaged or removed, or regrading as required by the engineer, except for those drainage items shown at specific locations in the plans and having specific pay items in the summary of pay items. No separate payment will be made for any cost incurred to comply with this requirement.
- Erosion control measures shall be installed prior to or concurrent with land disturbance activities and shall be maintained at all times. Additional erosion control and sediment control devices shall be installed if deemed necessary by on site inspection or as directed by the engineer.
- De-watering will be done only in accordance with proper water use permit obtained from South Florida Water Management District.
- The contractor shall notify Sunshine One Call at least 48 hours prior to construction.
- The location(s) of the utilities shown in the plans (including those designated Vv, Vh, Vw, & Utv) are based on limited investigation techniques and should be considered approximate only. The verified locations/elevations apply only at the points shown. Interpolations between these points have not been verified.

Utility and Agency Owner Contact Information:

Company	Contact	Telephone Number
BONITA SPRINGS UTILITIES	KIM HOSKINS	239-390-4820
CENTURYLINK/LUMEN	BILL McCLOUD	850-599-1444
COMCAST	DALLAS ZIEMSKI	239-989-2111
CROWN CASTLE	DANNY HASKETT	786-610-7073
FLORIDA POWER & LIGHT	JOEL BRAY	386-586-6403
LEE COUNTY SIGNALS	MICHAEL PADGETT	239-533-9500
PEOPLES GAS TECO	ALEX McFARLANE	813-275-3726

PROPOSED STORM SEWER LEGEND:	
	= STORM SEWER PIPE (TYP.)
	= FDOT MANHOLE I-7
	= FDOT MANHOLE P-7
	= FDOT BOTTOM INLET TYPE A
	= FDOT BOTTOM INLET TYPE C
	= FDOT DITCH BOTTOM INLET TYPE D
	= FDOT DITCH BOTTOM INLET TYPE E
	= FDOT DITCH BOTTOM INLET TYPE G

EXISTING UTILITY LEGEND:	
--- -- -- W --- -- --	= EXISTING WATER MAIN PER BONITA SPRINGS UTILITIES GIS
--- -- -- S(A) --- -- --	= EXISTING SANITARY FORCE MAIN PER BONITA SPRINGS UTILITIES GIS
--- -- -- G(A) --- -- --	= EXISTING GAS MAIN PER PEOPLES GAS TECO
--- -- -- OFOC --- -- --	= EXISTING AERIAL FIBER OPTIC LINES PER CROWN CASTLE & LEE COUNTY SIGNALS
--- -- -- BFOC(A) --- -- --	= EXISTING UNDERGROUND FIBER OPTIC PER CROWN CASTLE & LEE COUNTY SIGNALS
--- -- -- ... --- -- --	= EXISTING TRAFFIC SIGNAL STRAIN WIRE PER CROWN CASTLE & LEE COUNTY SIGNALS
	= EXISTING HAND HOLE PER CROWN CASTLE & LEE COUNTY SIGNALS

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			SHEET NO. 03
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
---	---	---	---		---	---	---	<i>SYMBOLS, LEGEND & GENERAL NOTES</i>
---	---	---	---		---	---	---	

QUANTITY	STR NO	STATION	SIDE	Street	DESCRIPTION	BARRELS	PIPE CULVERT, OPTIONAL MATERIAL, ROUND						MATERIAL, CLASS	PIPE CULVERT, OPTIONAL MATERIAL, ELLIPTICAL					MATERIAL, CLASS	MANHOLE		DITCH BOTTOM INLET					FLARED END SECTION, CONCRETE					RUBBLE RIPRAP (BANK AND SHORE) TN	REMARKS		
							15"	18"	24"	30"	36"	42"		48"	12"x18"	14"x23"	19"x30"	29"x45"		38"x60"	P7	J7	A	C	D	E	G	12"x18"	15"	24"	42"			48"	38"x60"
							<10	<10	<10	<10	<10	<10		<10	<10	<10	<10	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10			<10	<10
P	314	NA		BASIN B	MANHOLE, PIPE	1							43'	RCP, HE-II		1									1			96" X 96" RECTANGULAR BOTTOM MANHOLE							
F																																			
P	314a	NA		BASIN B	PIPE	1							175'	RCP, HE-II										1	45			CONNECT TO STR 314							
F																																			
P	315	NA		BASIN B	INLET, PIPE	1				44'				RCP, III						1						66		BACKFLOW PREVENTION ON OUTFALL, SEE STR 315 DETAIL							
F																																			
P	316	221+37.43	RT	DOWNS DRIVE	INLET, PIPE	1	16'							RCP, III							1														
F																																			
P	317	221+38.20	RT	DOWNS DRIVE	INLET, PIPE	1	16'							RCP, III								1													
F																																			
P	318	221+38.18	RT	DOWNS DRIVE	MANHOLE, PIPE	1	148'							RCP, III		1												48-IN DIAMETER ROUND BOTTOM MANHOLE							
F																																			
P	319	222+83.38	RT	DOWNS DRIVE	INLET, PIPE	1	12'							RCP, III			1																		
F																																			
P	320	222+86.55	RT	DOWNS DRIVE	INLET, PIPE	1	17'							RCP, III							1														
F																																			
P	321	222+85.95	RT	DOWNS DRIVE	MANHOLE, PIPE	1			188'					RCP, III		1												48-IN DIAMETER ROUND BOTTOM MANHOLE							
F																																			
P	322	224+69.39	RT	DOWNS DRIVE	INLET, PIPE	1	10'							RCP, III								1													
F																																			
P	323	224+75.18	LT	DOWNS DRIVE	INLET, PIPE	1	22'							RCP, III							1														
F																																			
P	324	224+71.56	RT	DOWNS DRIVE	MANHOLE, PIPE	1			185'					RCP, III		1												72" X 72" RECTANGULAR BOTTOM MANHOLE							
F																																			
P	325	226+56.32	RT	DOWNS DRIVE	INLET, PIPE	1	10'							RCP, III							1														
F																																			
P	326	226+55.84	RT	DOWNS DRIVE	MANHOLE, PIPE	1			17'					RCP, III		1												60" X 60" RECTANGULAR BOTTOM MANHOLE							
F																																			
P	327	226+55.53	LT	DOWNS DRIVE	MANHOLE, PIPE	1			71'					RCP, III		1							1			14		72" X 72" RECTANGULAR BOTTOM MANHOLE							
F																																			
P	400	78+06.80	LT	IMPERIAL PARKWAY	MANHOLE, PIPE	1				10'				RCP, III														72" X 48" RECTANGULAR BOTTOM MANHOLE, FIELD VERIFY INVERTS							
F																																			
P	400a	78+06.80	LT	IMPERIAL PARKWAY	PIPE	1			9'					RCP, III														CONNECT TO STR 400, FIELD VERIFY INVERTS							
F																																			
P	401	141+14.20	RT	MCKENNA AVE	MANHOLE, PIPE	1				21'				RCP, IV		1												96" X 60" RECTANGULAR BOTTOM MANHOLE, SEE STR 401 DETAIL							
F																																			
P	401a	141+16.43	RT	MCKENNA AVE	PIPE	1	25'							RCP, IV														CONNECT TO STR 401							
F																																			
P	401b	141+17.05	RT	MCKENNA AVE	PIPE	1	56'							RCP, IV														CONNECT TO STR 401							
F																																			
P	401c	141+14.20	RT	MCKENNA AVE	PIPE	1				134'				RCP, II														CONNECT TO STR 401							
F																																			
P	402	80+35.81	LT	IMPERIAL PARKWAY	MANHOLE, PIPE	1						230'		RCP, III		1										23		72" X 72" RECTANGULAR BOTTOM MANHOLE							
F																																			
P	402a	80+35.81	LT	IMPERIAL PARKWAY	PIPE	1								RCP, III										1											
F																																			
P	403	82+43.64	LT	IMPERIAL PARKWAY	PIPE	1								RCP, III										1				SEE STR 403 DETAIL							
F																																			
P	404	82+43.67	LT	IMPERIAL PARKWAY	MANHOLE, PIPE	1						16'		RCP, II		1												72" X 72" RECTANGULAR BOTTOM MANHOLE							
F																																			
P	405	82+34.71	LT	IMPERIAL PARKWAY	PIPE	1				147'				RCP, III																					
F																																			
SHEET TOTALS						PLAN QUANTITY	332'		615'	155'	54'		310'																						
GRAND TOTALS						FINAL QUANTITY																													
GRAND TOTALS						PLAN QUANTITY	1,561'	1,043'	903'	155'	408'	215'	310'			5,565'	926'	536'		218'		27'	20'	13'	19'	63'	2'	1'	24'	8'	3'	1'	1'	2'	148'
GRAND TOTALS						FINAL QUANTITY																													

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			SUMMARY OF DRAINAGE STRUCTURES	SHEET NO. 08
DATE	DESCRIPTION		DATE		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
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REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			PROJECT LAYOUT	SHEET NO. 09
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
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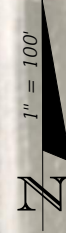
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DATE	DESCRIPTION	DATE	DESCRIPTION
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ENGINEER OF RECORD FULL NAME, P.E.
 P.E. LICENSE NUMBER 00000
 AMERICAN STRUCTUREPOINT INC.
 5405 CYPRESS CENTER DR., SUITE 310
 TAMPA, FL 33609
 CERTIFICATE OF AUTHORIZATION 00000000

CITY OF BONITA SPRINGS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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PROJECT LAYOUT

SHEET NO.
10



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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ENGINEER OF RECORD FULL NAME, P.E.
 P.E. LICENSE NUMBER 00000
 AMERICAN STRUCTUREPOINT INC.
 5405 CYPRESS CENTER DR., SUITE 310
 TAMPA, FL 33609
 CERTIFICATE OF AUTHORIZATION 00000000

CITY OF BONITA SPRINGS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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PROJECT LAYOUT
 SHEET NO.
 11



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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ENGINEER OF RECORD FULL NAME, P.E.
 P.E. LICENSE NUMBER 00000
 AMERICAN STRUCTUREPOINT INC.
 5405 CYPRESS CENTER DR., SUITE 310
 TAMPA, FL 33609
 CERTIFICATE OF AUTHORIZATION 00000000

CITY OF BONITA SPRINGS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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PROJECT LAYOUT

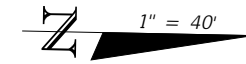
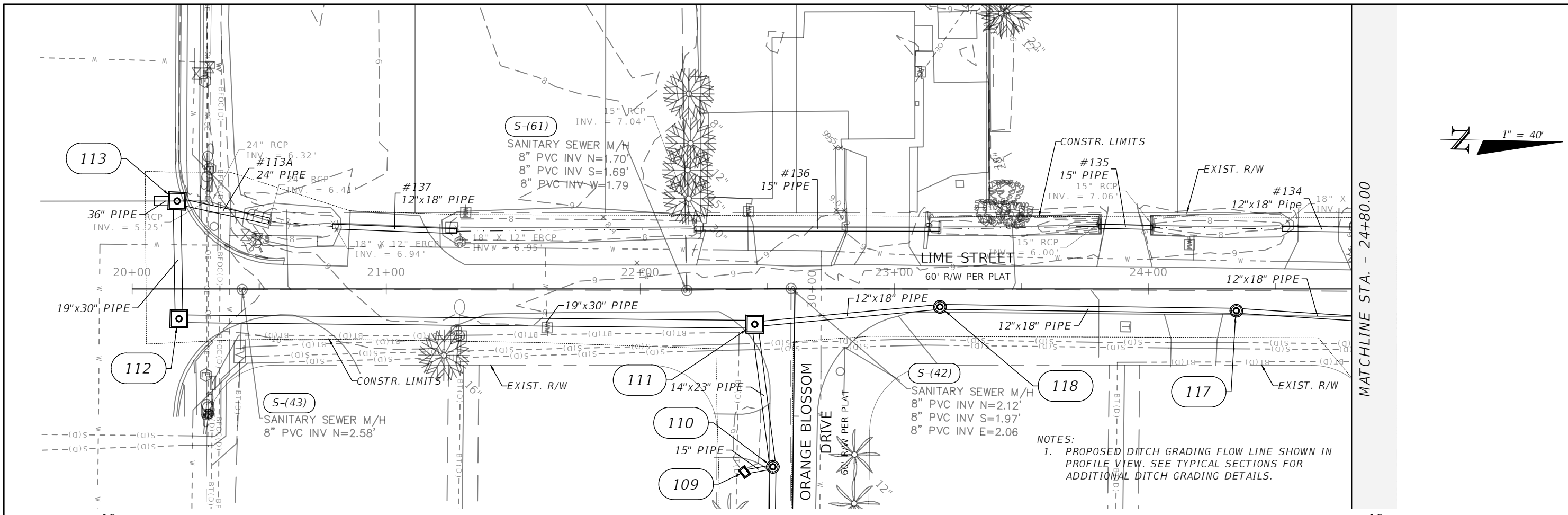
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12



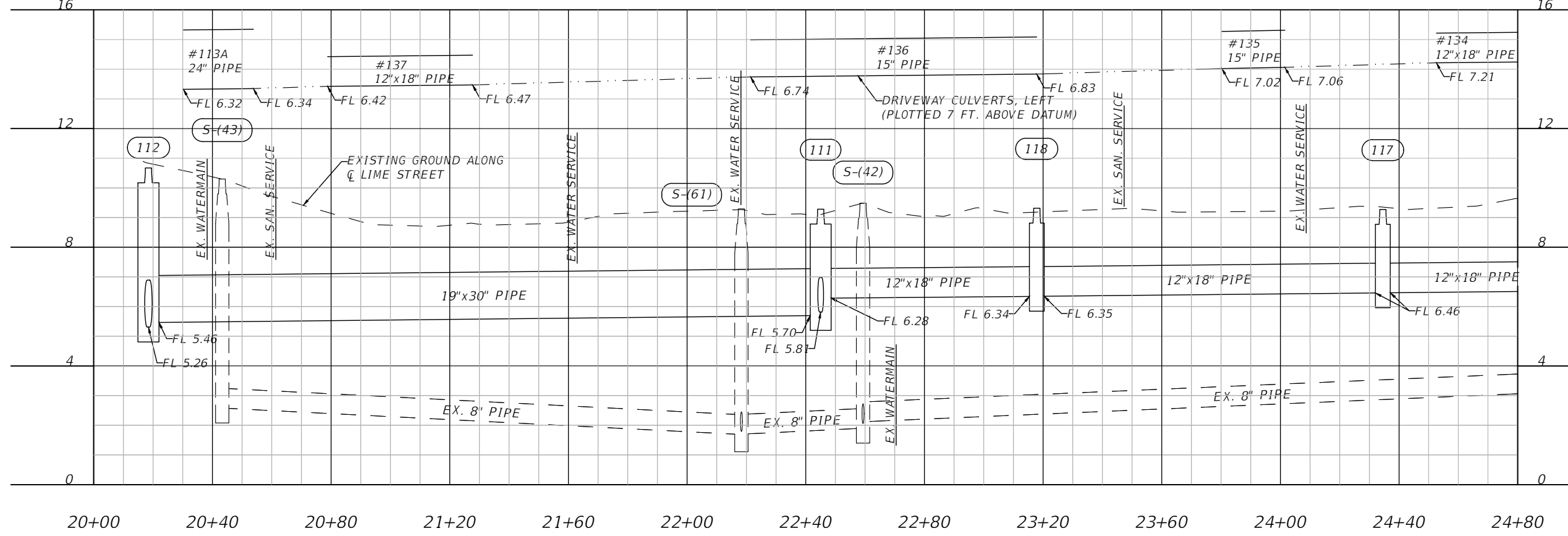
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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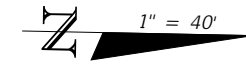
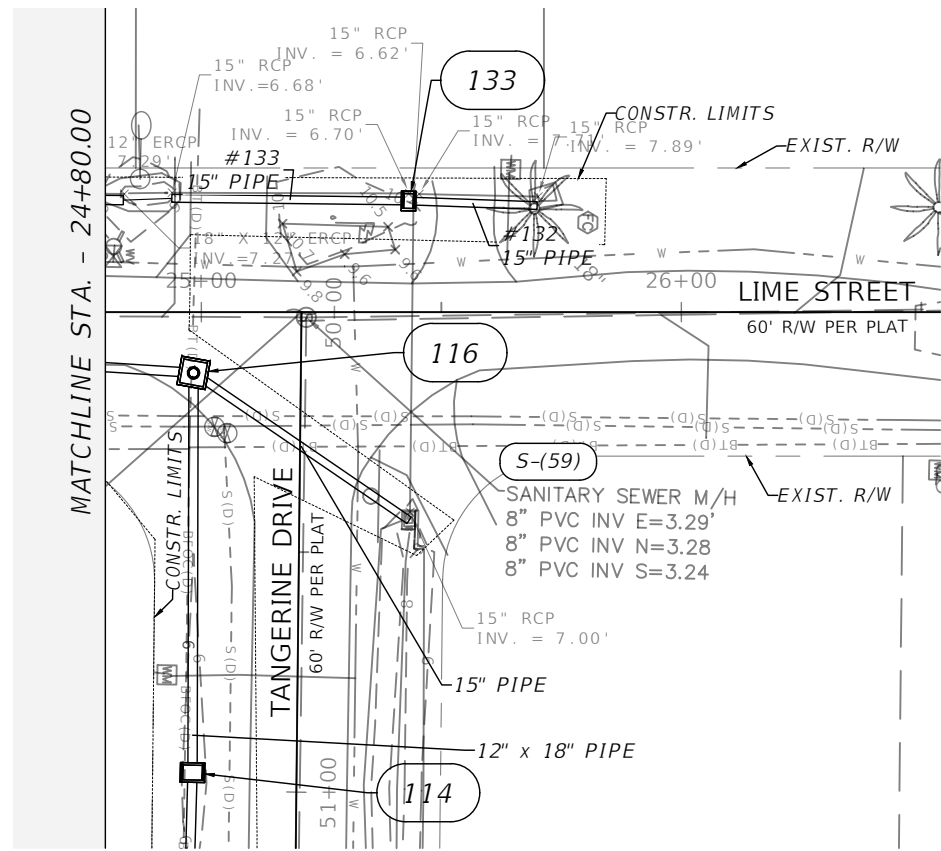
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
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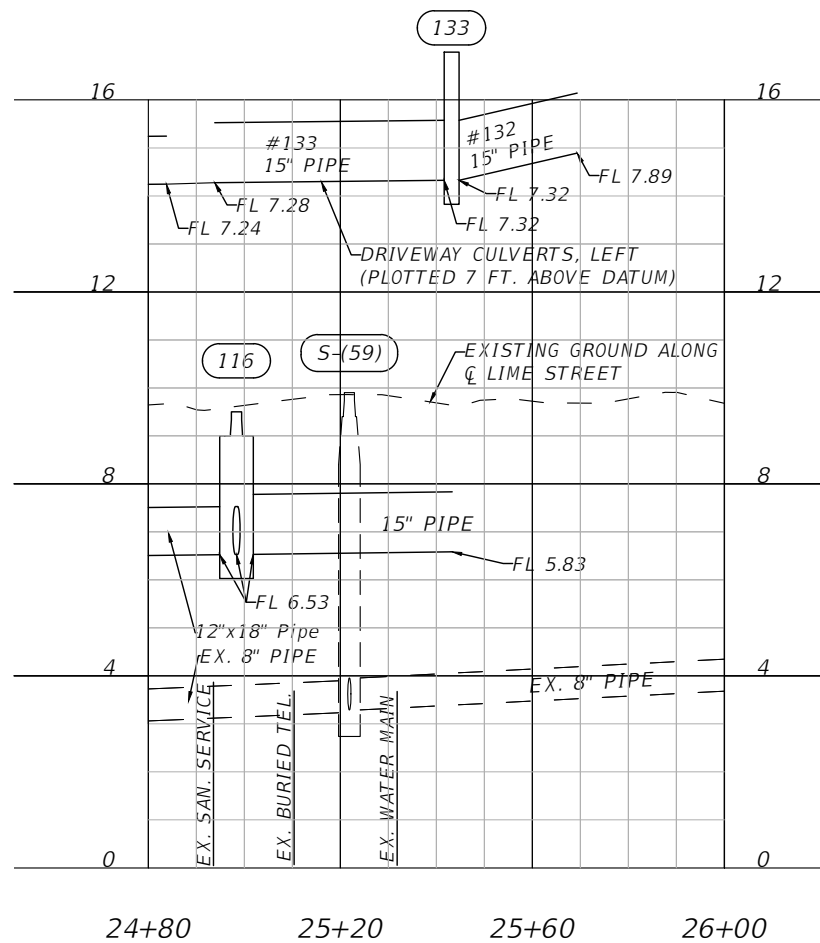
NOTES:
 1. PROPOSED DITCH GRADING FLOW LINE SHOWN IN PROFILE VIEW. SEE TYPICAL SECTIONS FOR ADDITIONAL DITCH GRADING DETAILS.



REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER ##### AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION	CITY OF BONITA SPRINGS			SHEET NO. 15
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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#	#	#	#					
#	#	#	#					
#	#	#	#					



- NOTES:
1. PROPOSED DITCH GRADING FLOW LINE SHOWN IN PROFILE VIEW. SEE TYPICAL SECTIONS FOR ADDITIONAL DITCH GRADING DETAILS.



1" = 40' Horizontal
1" = 4' Vertical

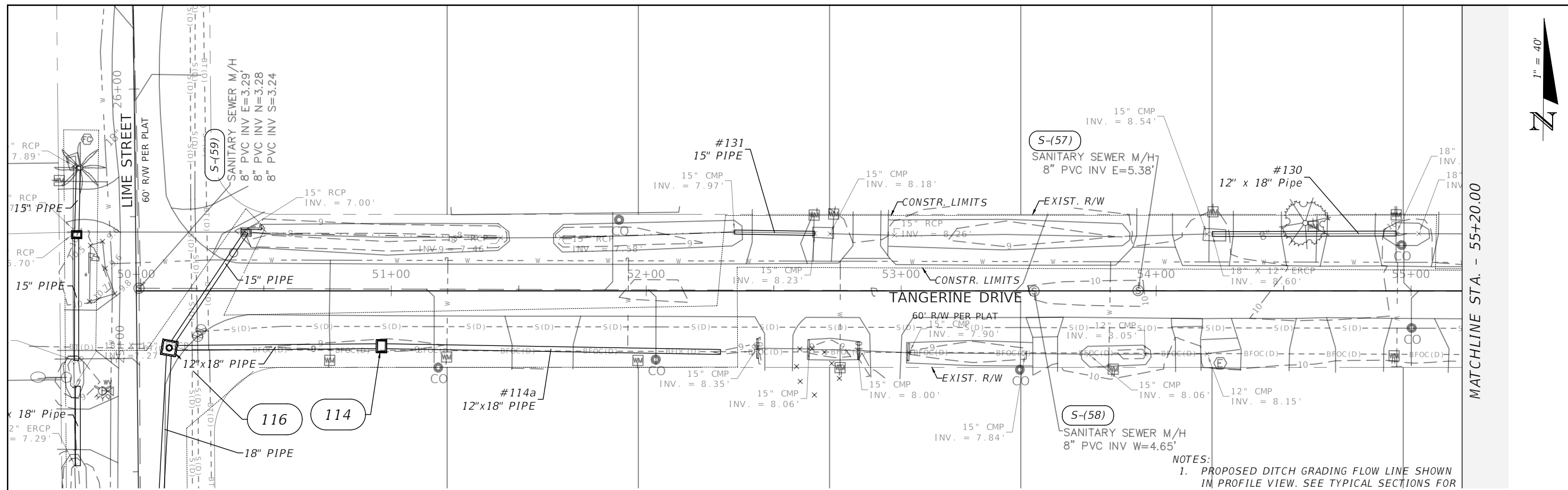
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DATE	DESCRIPTION	DATE	DESCRIPTION
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#	#	#	#
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#	#	#	#

ENGINEER OF RECORD FULL NAME, P.E.
P.E. LICENSE NUMBER #####
AMERICAN STRUCTUREPOINT INC.
5405 CYPRESS CENTER DR., SUITE 310
TAMPA, FL 33609
CERTIFICATE OF AUTHORIZATION

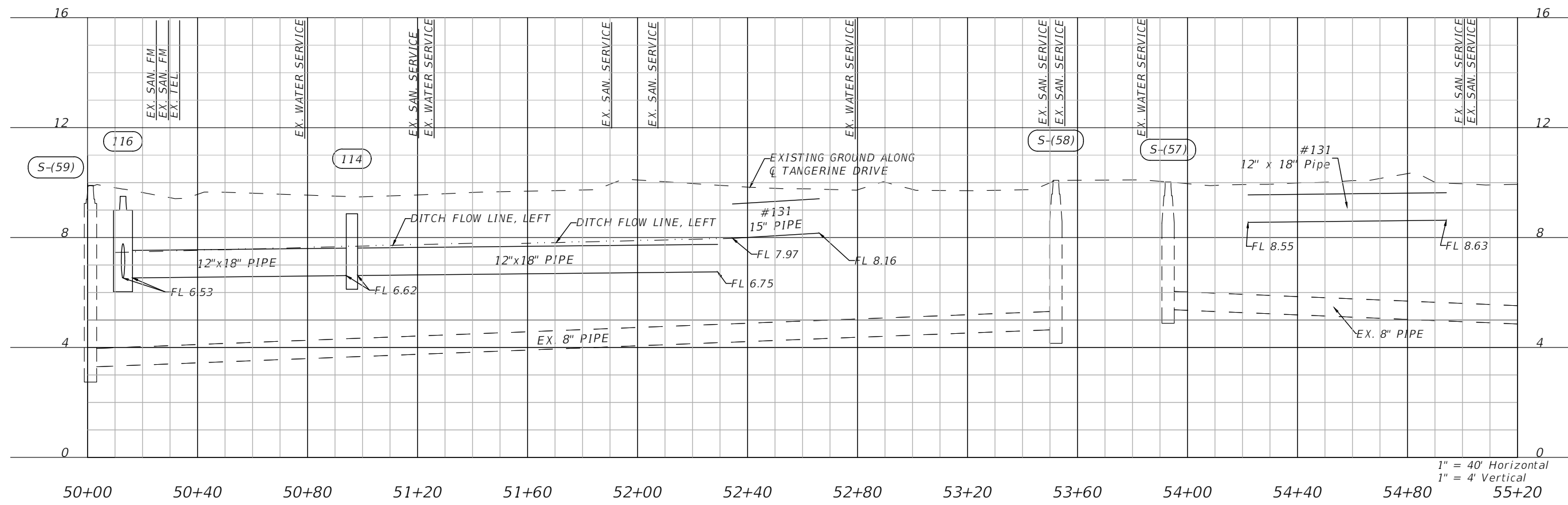
CITY OF BONITA SPRINGS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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#	#	#

STORM SEWER PLAN & PROFILE
LIME ST

SHEET NO.
16



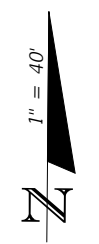
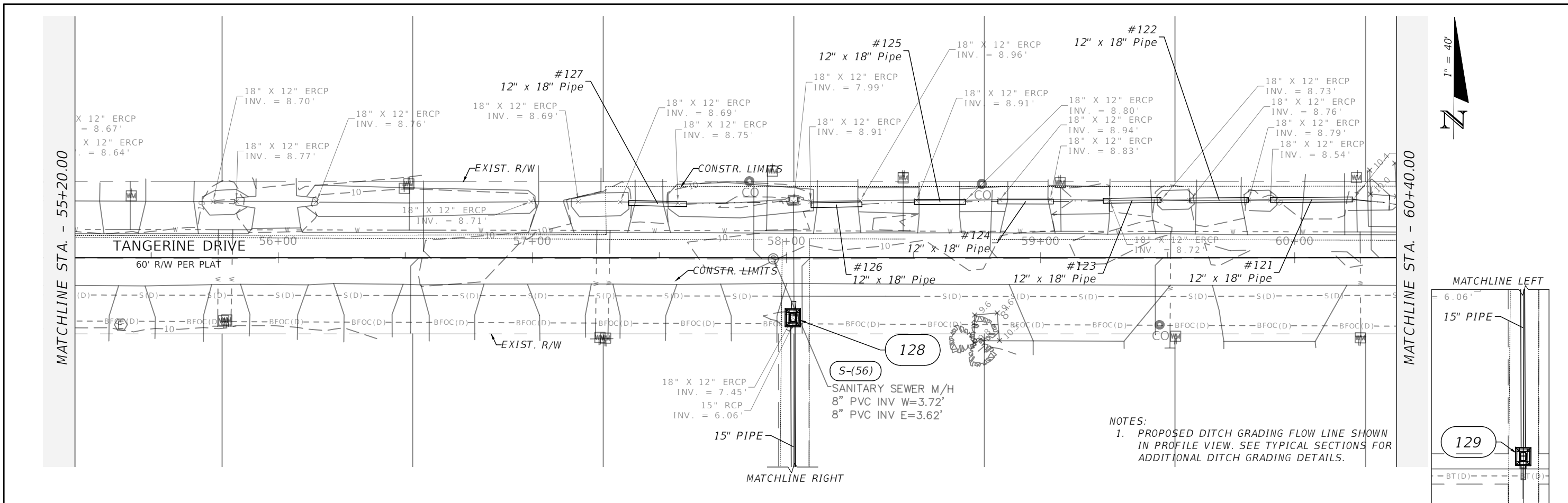
NOTES:
 1. PROPOSED DITCH GRADING FLOW LINE SHOWN IN PROFILE VIEW. SEE TYPICAL SECTIONS FOR ADDITIONAL DITCH GRADING DETAILS.



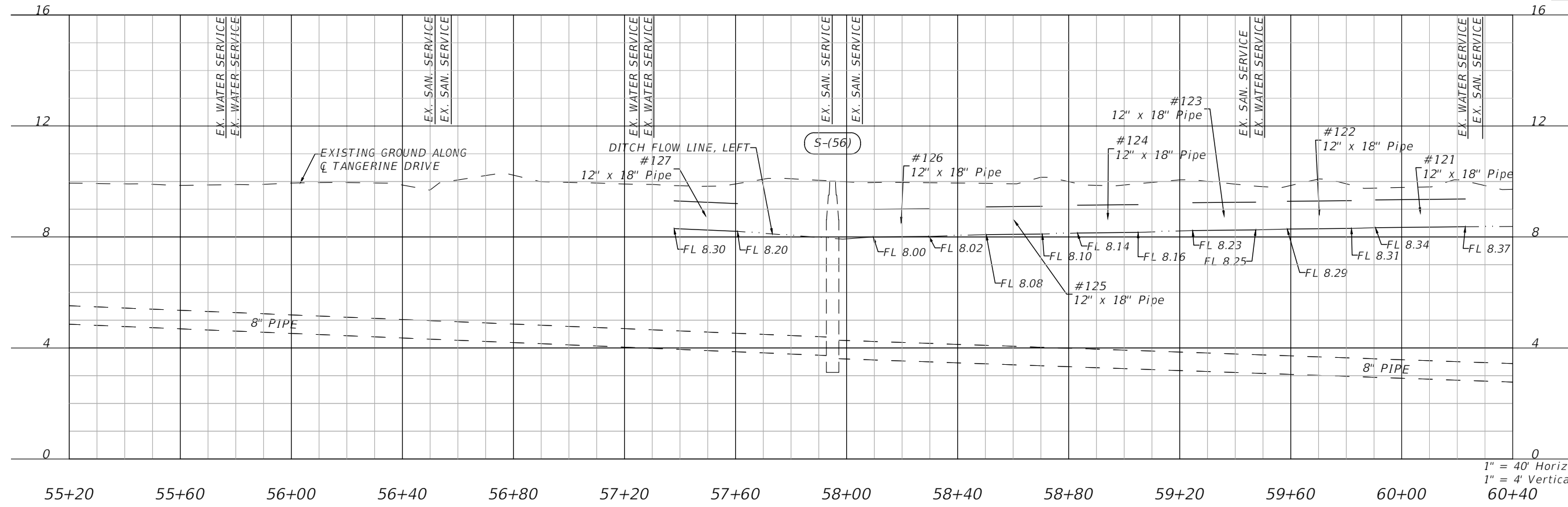
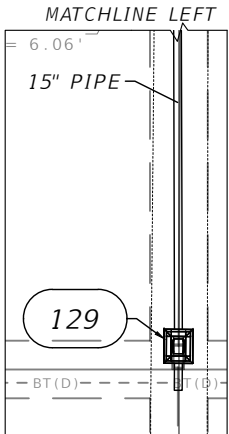
1" = 40' Horizontal
 1" = 4' Vertical

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			SHEET NO. 17
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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**STORM SEWER PLAN & PROFILE
 TANGERINE DR**

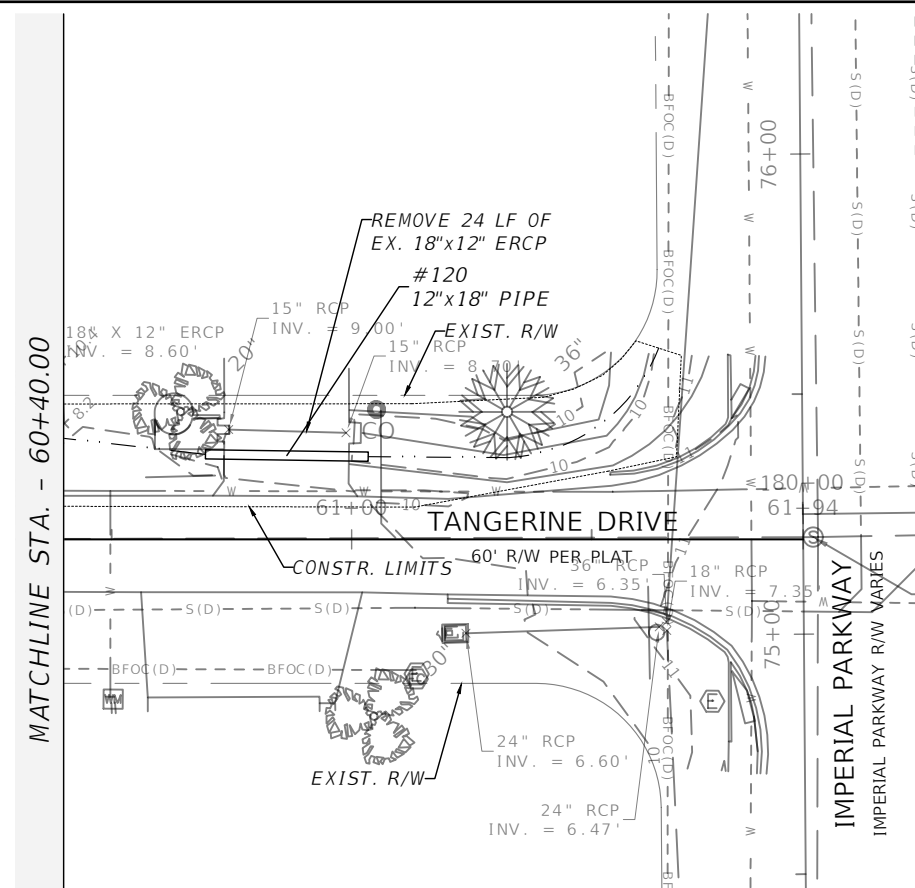


NOTES:
 1. PROPOSED DITCH GRADING FLOW LINE SHOWN IN PROFILE VIEW. SEE TYPICAL SECTIONS FOR ADDITIONAL DITCH GRADING DETAILS.

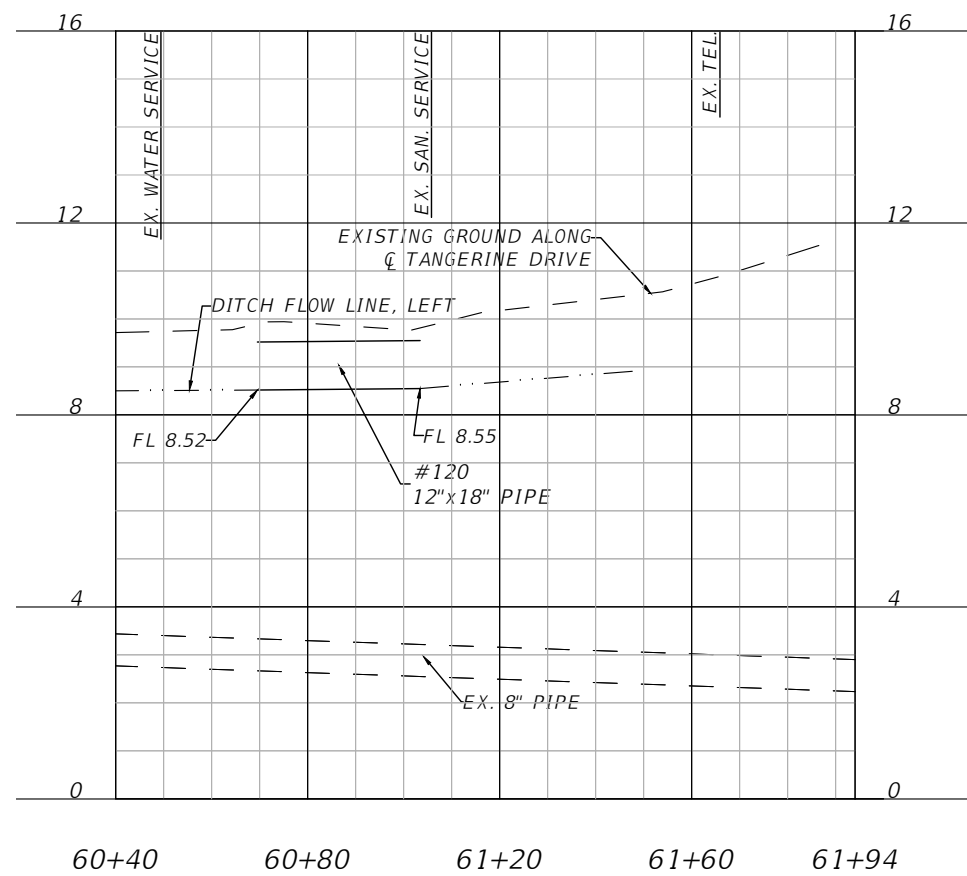


1" = 40' Horizontal
 1" = 4' Vertical

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			SHEET NO. 18
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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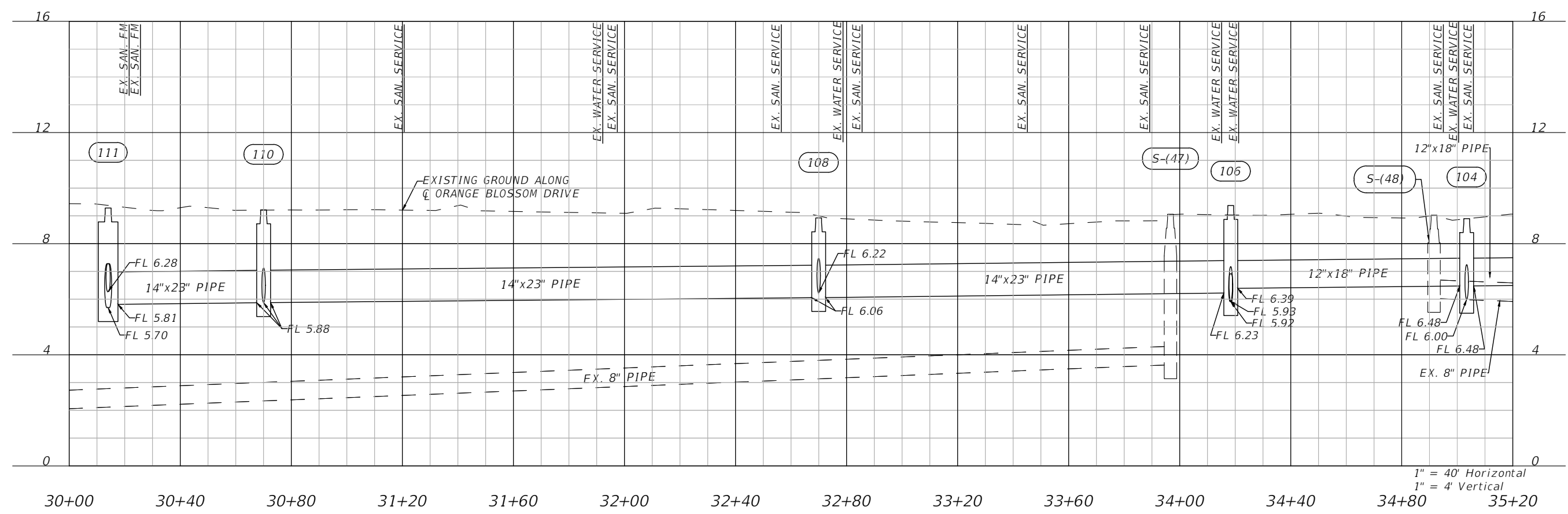
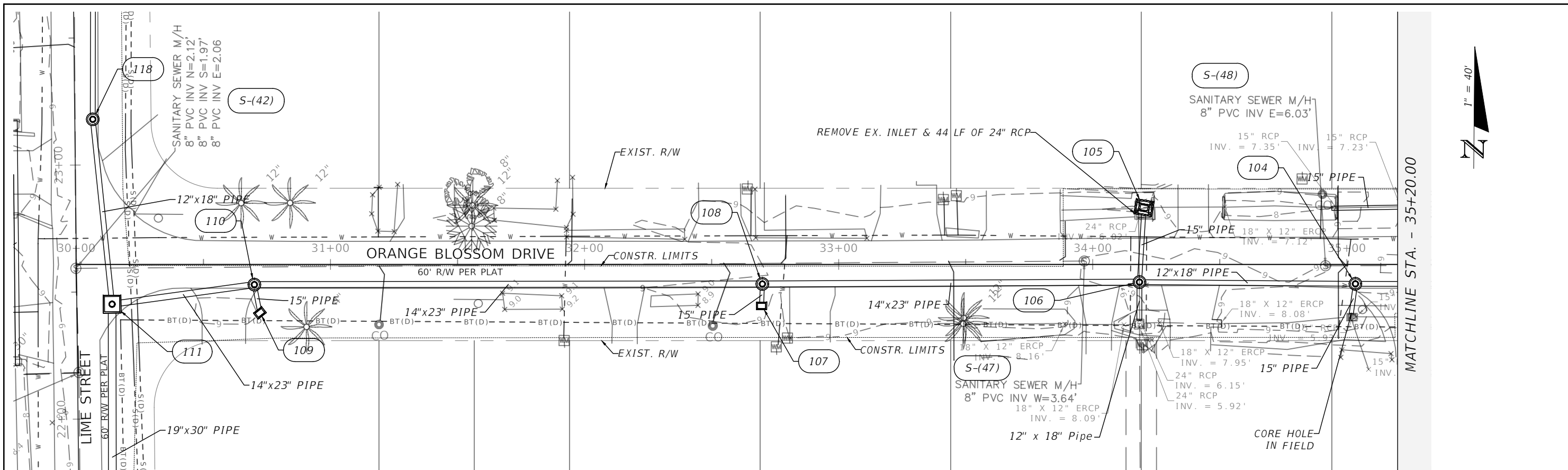


- NOTES:
1. PROPOSED DITCH GRADING FLOW LINE SHOWN IN PROFILE VIEW. SEE TYPICAL SECTIONS FOR ADDITIONAL DITCH GRADING DETAILS.

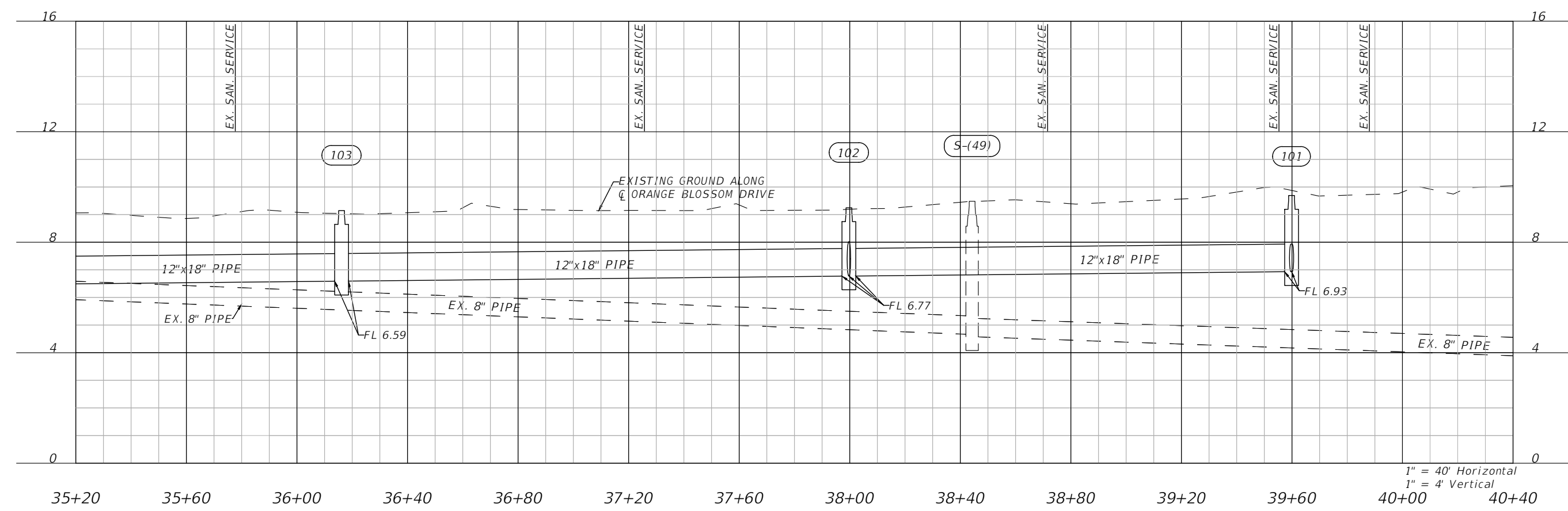
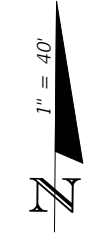
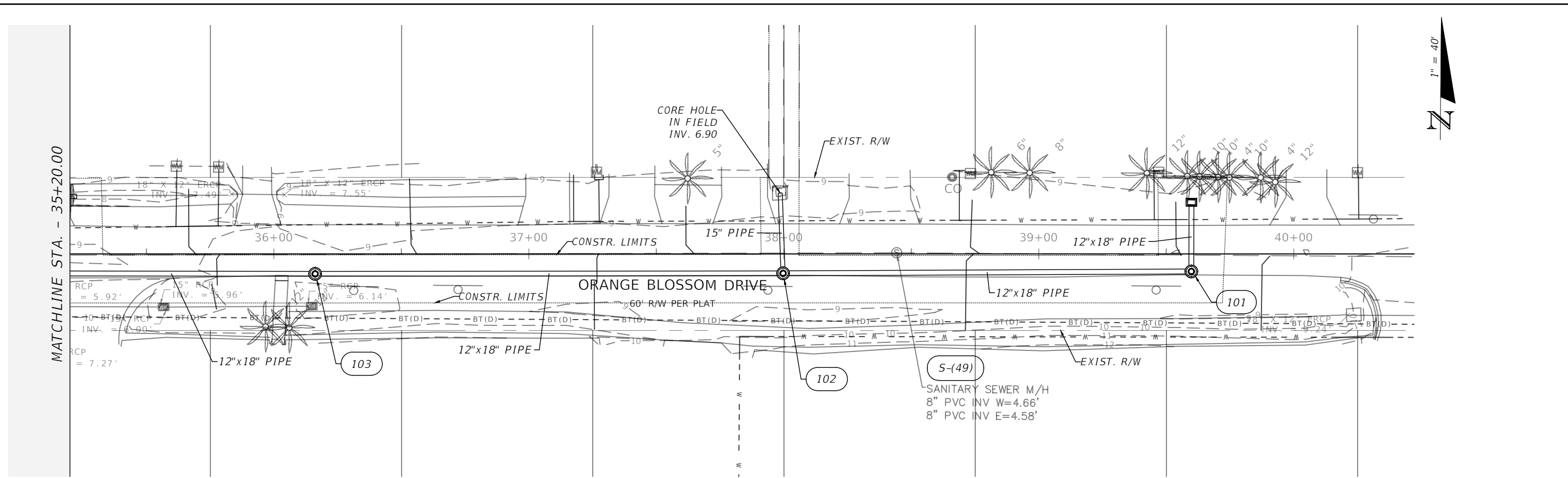


1" = 40' Horizontal
 1" = 4' Vertical

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			SHEET NO. 19
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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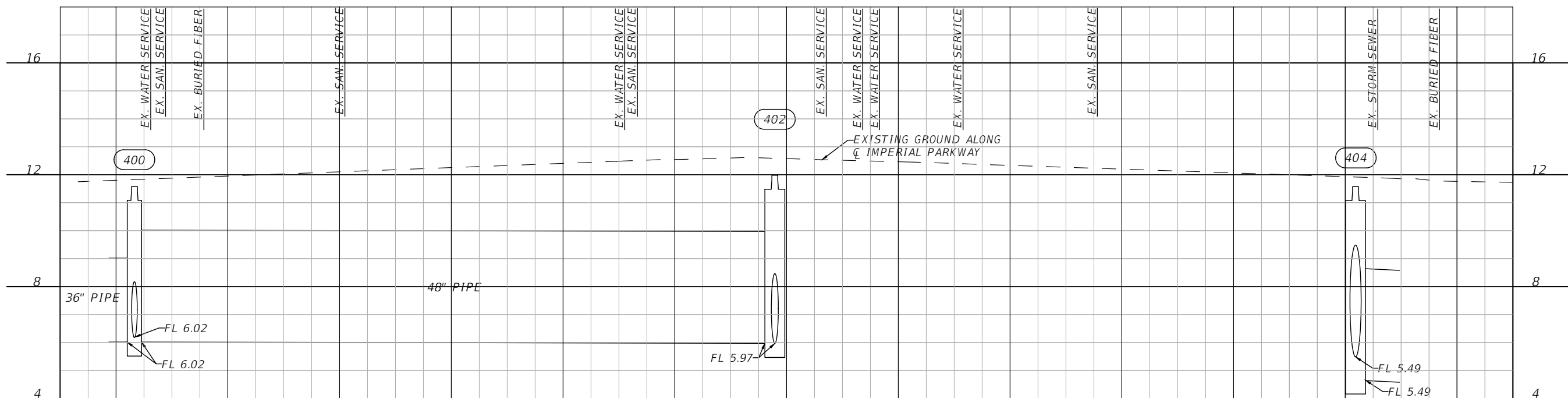
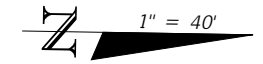
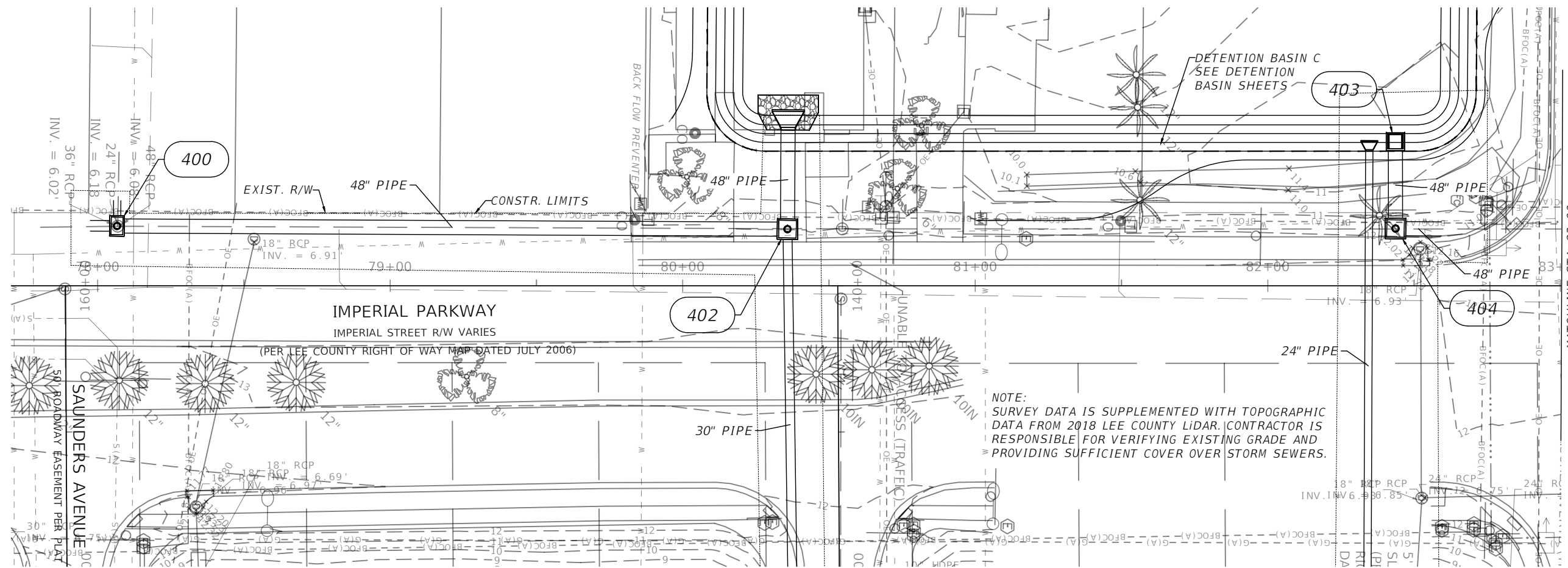


REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			SHEET NO. 20
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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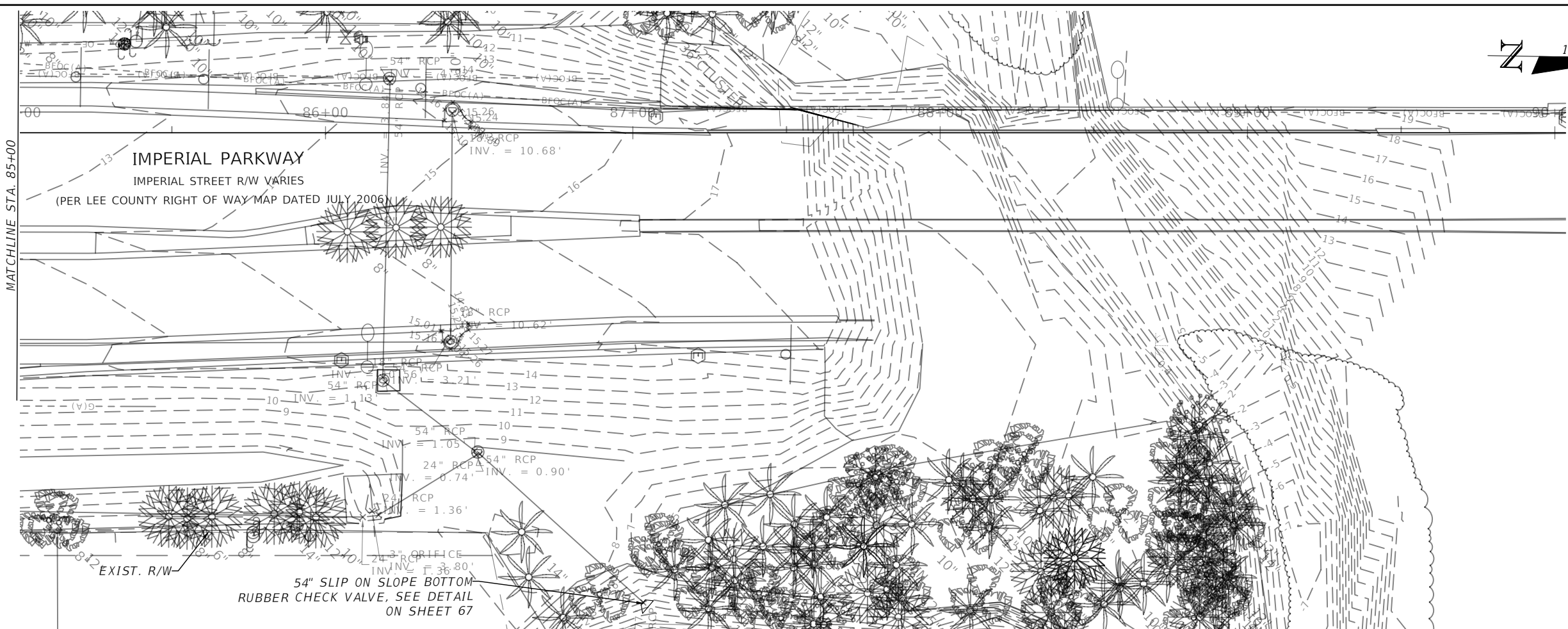
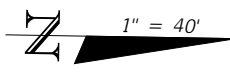
1" = 40' Horizontal
1" = 4' Vertical

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			SHEET NO. 21
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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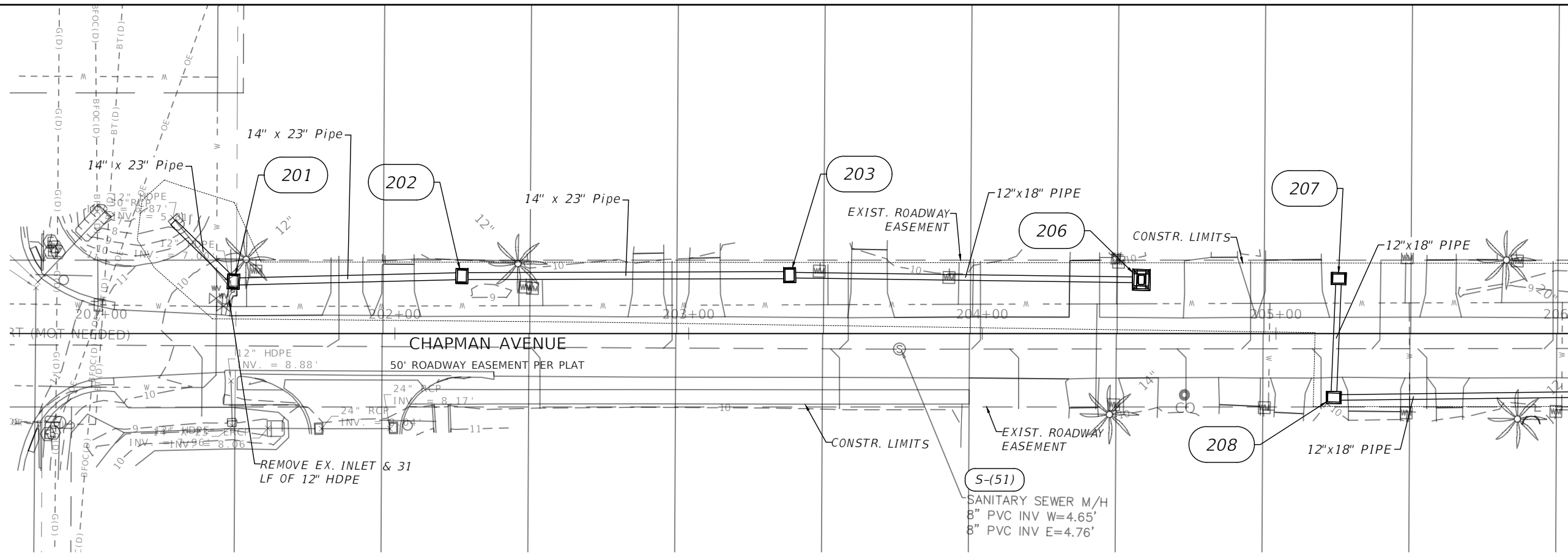
77+80 78+00 78+40 78+80 79+20 79+60 80+00 80+40 80+80 81+20 81+60 82+00 82+40 82+80 83+00 1" = 40' Horizontal
1" = 4' Vertical

DATE	DESCRIPTION	DATE	DESCRIPTION	CITY OF BONITA SPRINGS			SHEET NO.
				ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
							22
ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 ENGINEER OF RECORD COMPANY NAME ENGINEER OF RECORD COMPANY STREET ENGINEER OF RECORD CITY, STATE ZIP CERTIFICATE OF AUTHORIZATION 00000000				STORM SEWER PLAN & PROFILE - IMPERIAL PARKWAY			

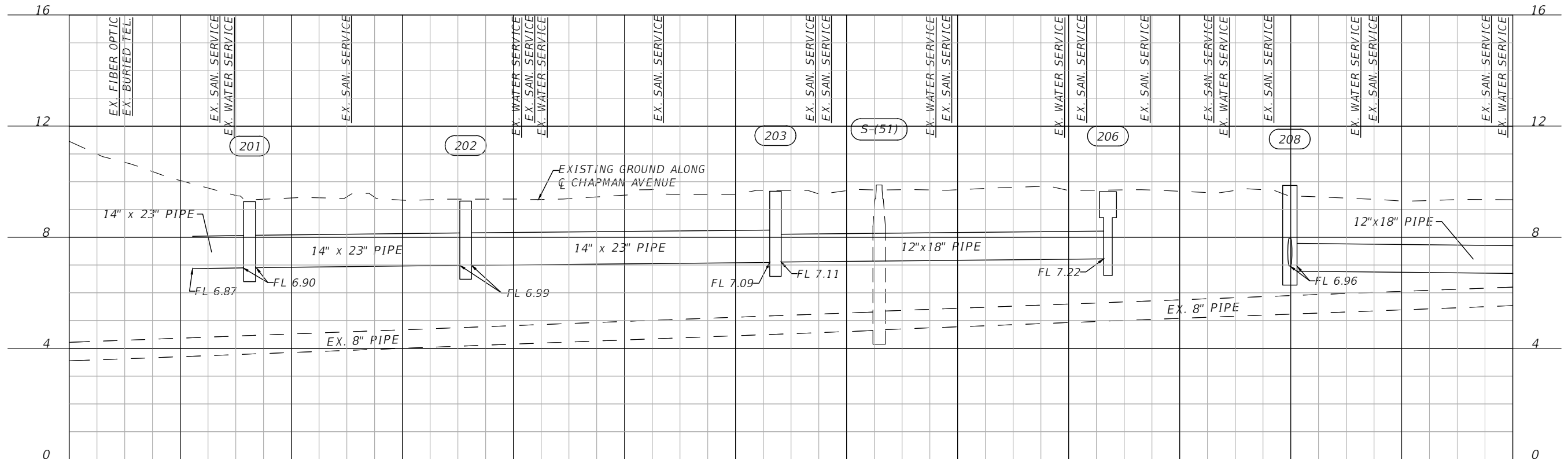


85+00 85+20 85+60 86+00 86+40 86+80 87+20 87+60 88+00 88+40 88+80 89+20 89+60 90+00 1" = 40' Horizontal
1" = 4' Vertical

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 ENGINEER OF RECORD COMPANY NAME ENGINEER OF RECORD COMPANY STREET ENGINEER OF RECORD CITY, STATE ZIP CERTIFICATE OF AUTHORIZATION 00000000	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			STORM SEWER PLAN & PROFILE IMPERIAL PARKWAY	SHEET NO. 23
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
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MATCHLINE STA. - 206+00.00



1" = 40' Horizontal
1" = 4' Vertical

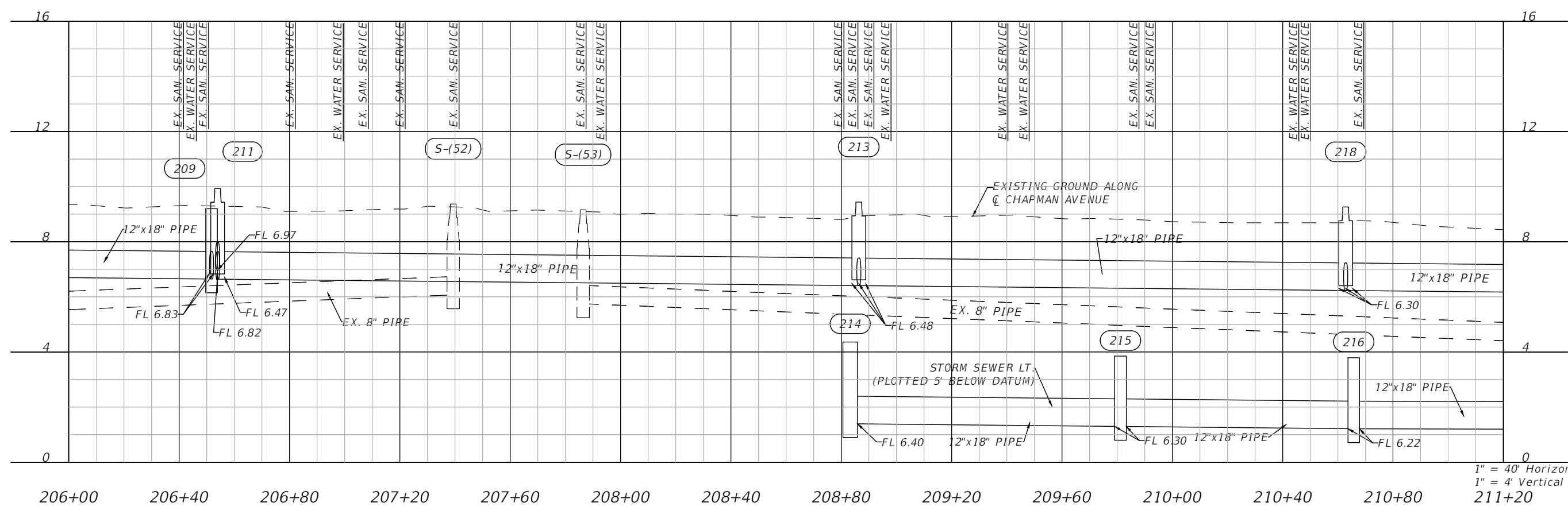
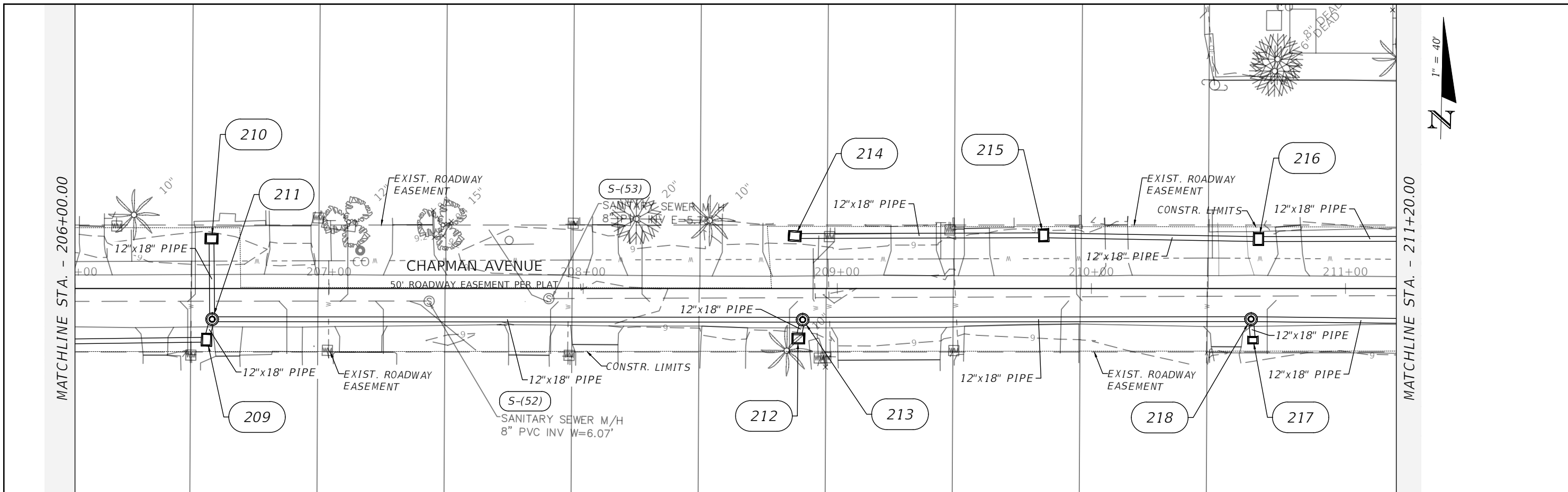
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
###	###	#	#
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ENGINEER OF RECORD FULL NAME, P.E.
P.E. LICENSE NUMBER #####
AMERICAN STRUCTUREPOINT INC.
5405 CYPRESS CENTER DR., SUITE 310
TAMPA, FL 33609
CERTIFICATE OF AUTHORIZATION #####

CITY OF BONITA SPRINGS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
###	#	###
#	#	#
#	#	#

STORM SEWER PLAN & PROFILE
CHAPMAN AVE

SHEET NO.
24



1" = 40' Horizontal
1" = 4' Vertical

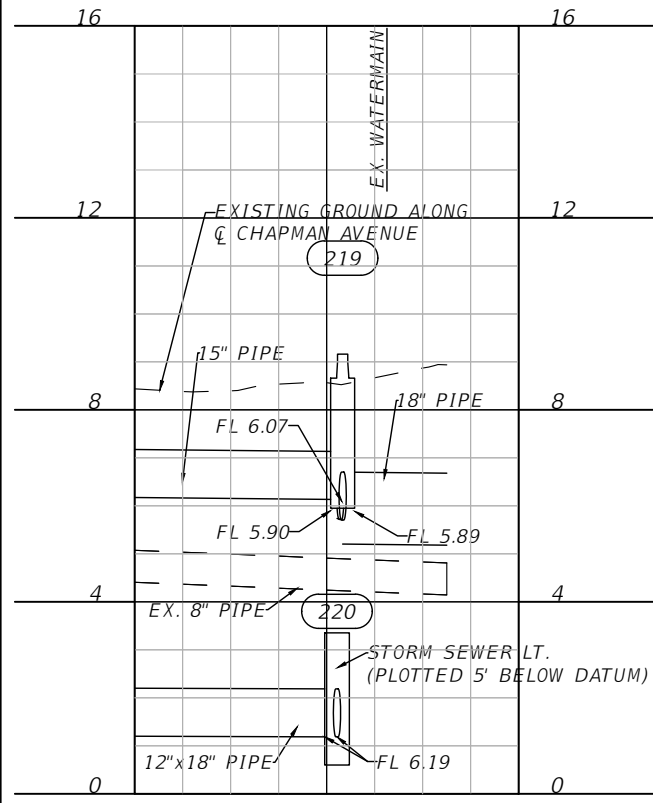
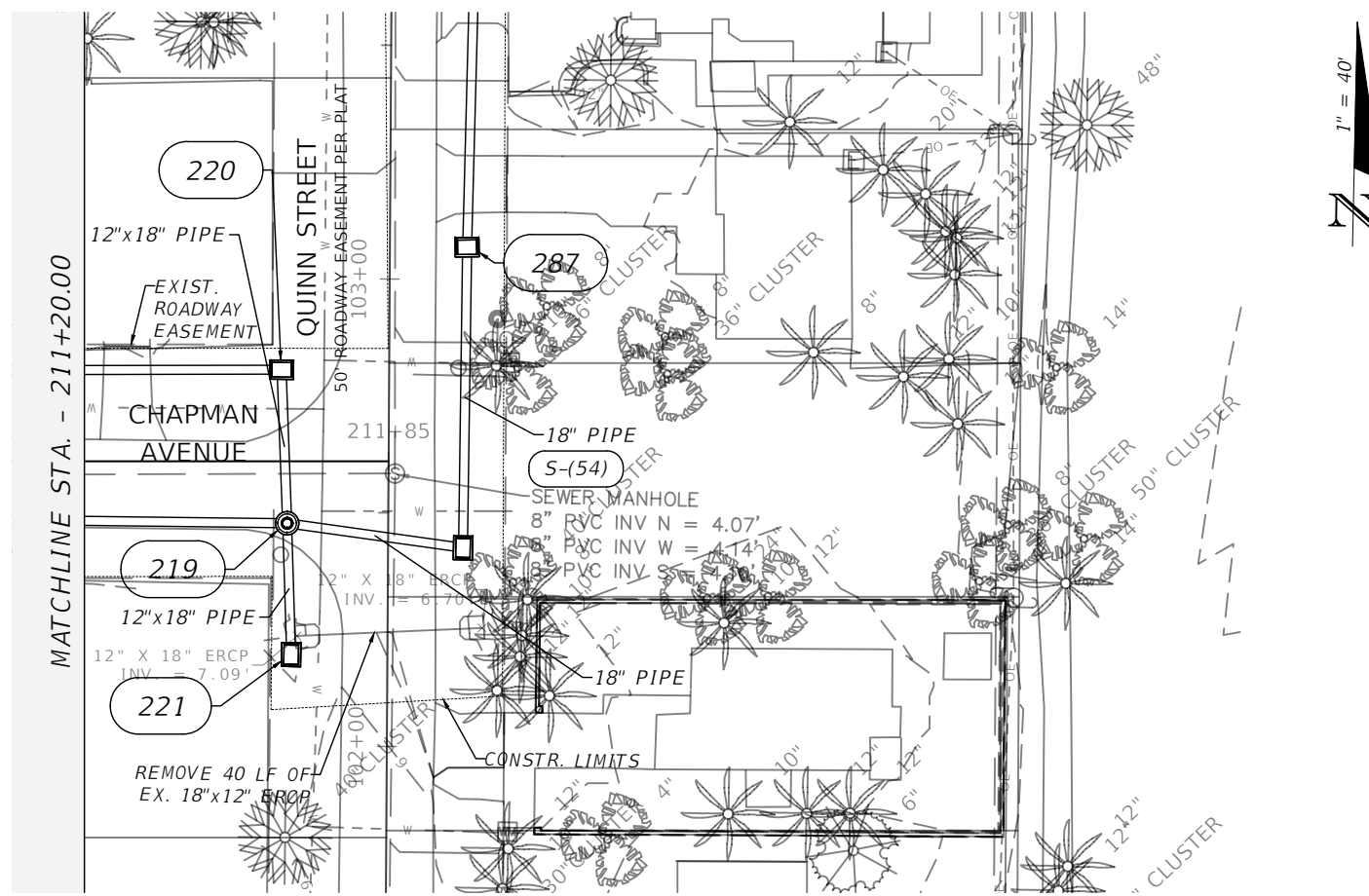
DATE	DESCRIPTION	DATE	DESCRIPTION
###	###	#	#
#	#	#	#
#	#	#	#
#	#	#	#

ENGINEER OF RECORD FULL NAME, P.E.
P.E. LICENSE NUMBER #####
AMERICAN STRUCTUREPOINT INC.
5405 CYPRESS CENTER DR., SUITE 310
TAMPA, FL 33609
CERTIFICATE OF AUTHORIZATION #####

CITY OF BONITA SPRINGS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
###	#	###
#	#	#
#	#	#

STORM SEWER PLAN & PROFILE
CHAPMAN AVE

SHEET NO.
25



211+20 211+60 212+00 1" = 40' Horizontal
 1" = 4' Vertical

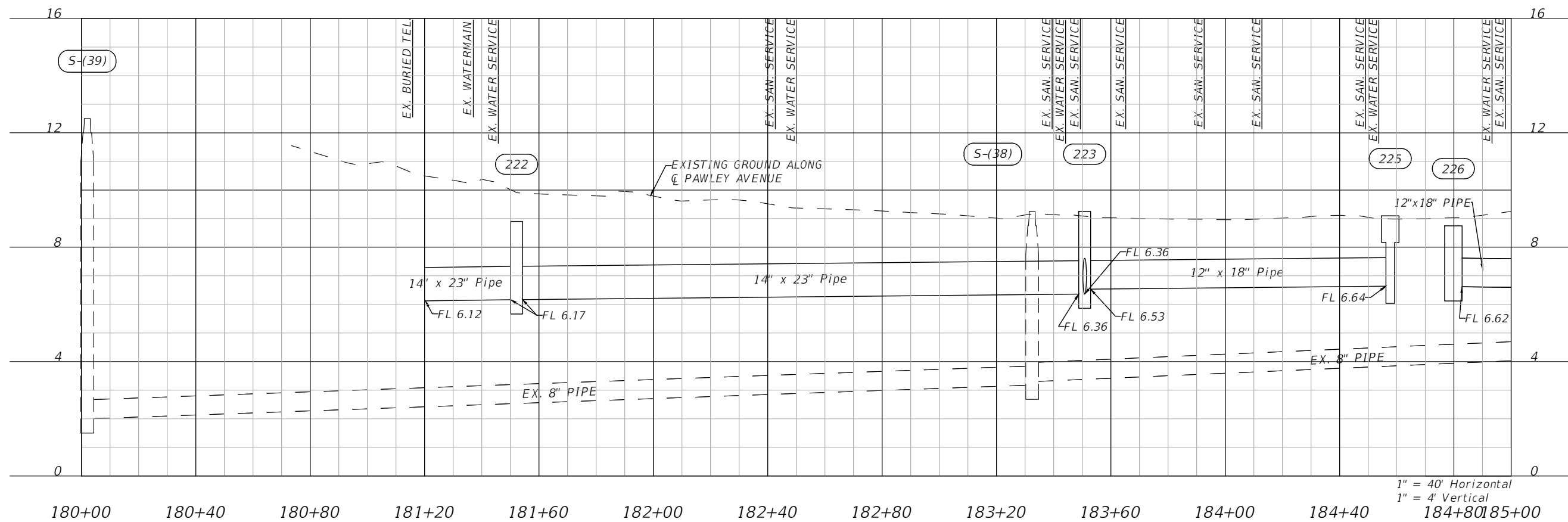
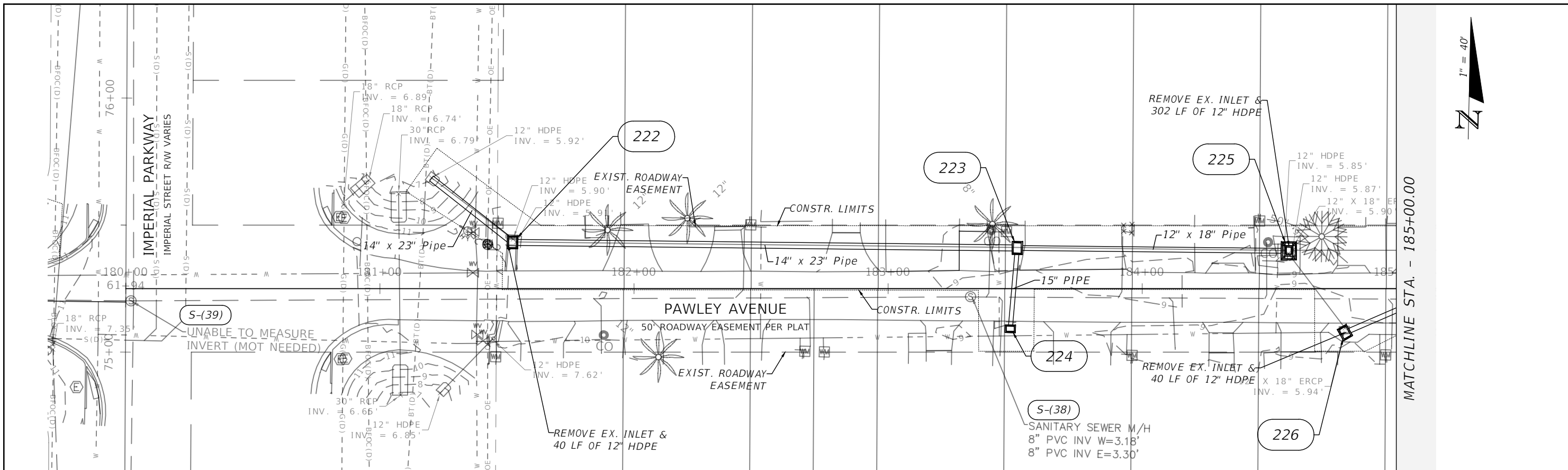
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
###	###	#	#
#	#	#	#
#	#	#	#
#	#	#	#

ENGINEER OF RECORD FULL NAME, P.E.
 P.E. LICENSE NUMBER #####
 AMERICAN STRUCTUREPOINT INC.
 5405 CYPRESS CENTER DR., SUITE 310
 TAMPA, FL 33609
 CERTIFICATE OF AUTHORIZATION #####

CITY OF BONITA SPRINGS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
###	#	###
#	#	#

STORM SEWER PLAN & PROFILE
CHAPMAN AVE

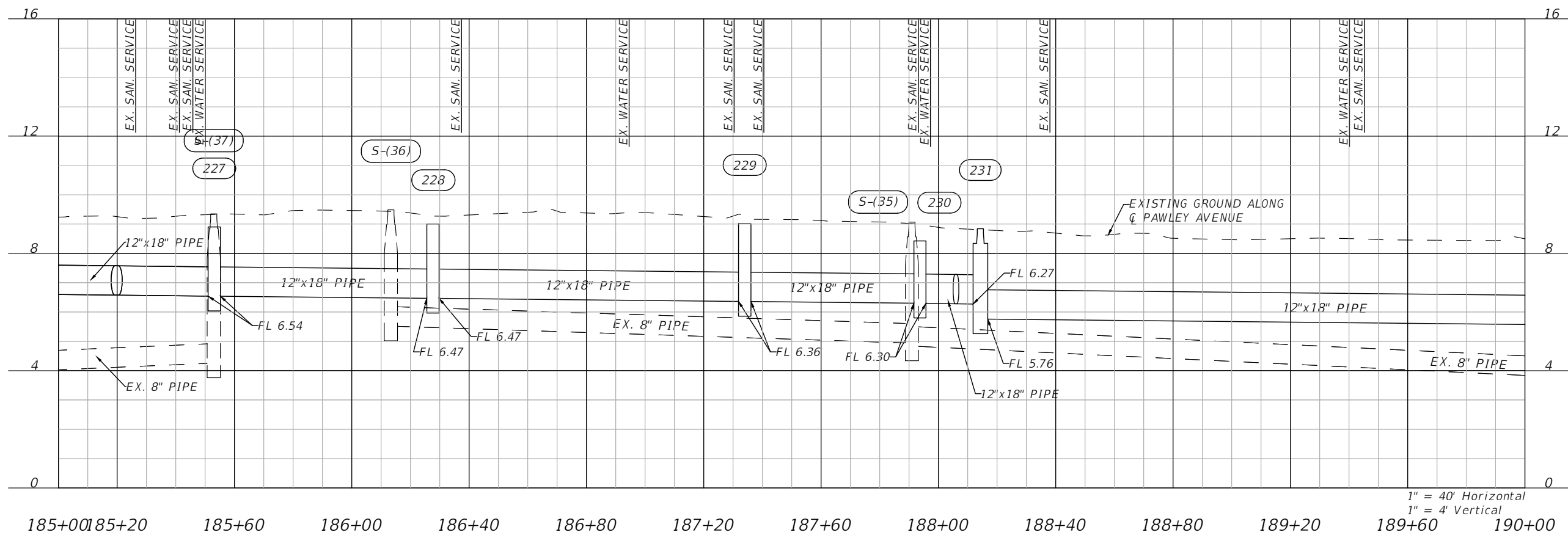
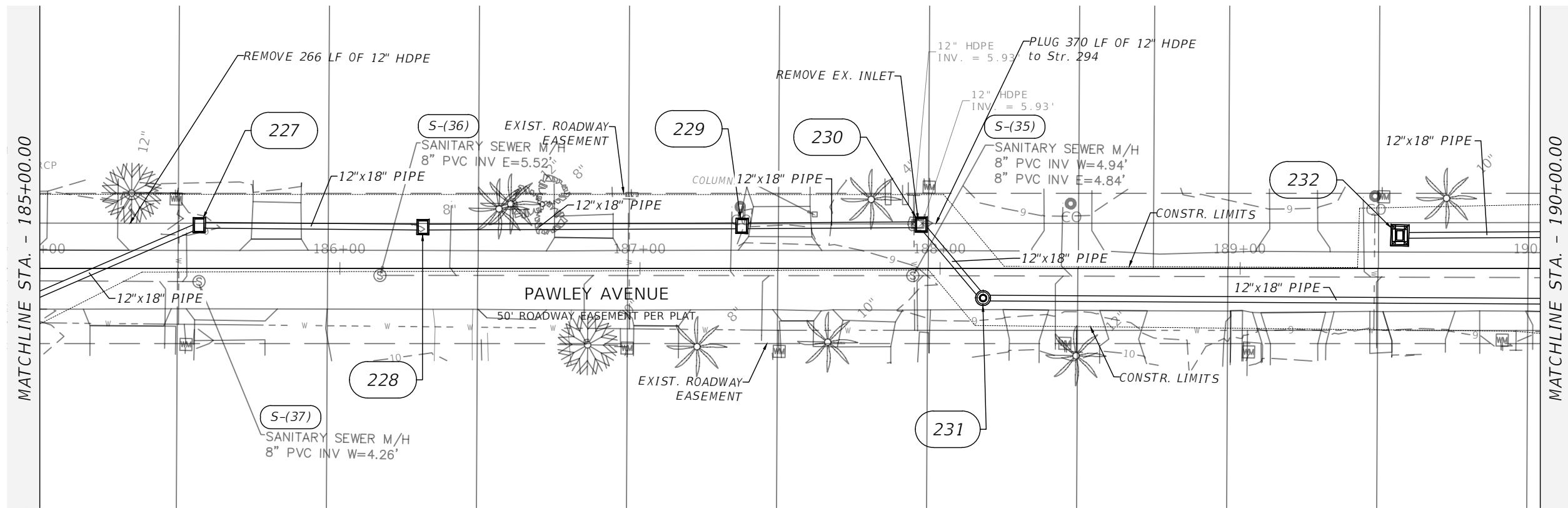
SHEET NO.
 26



1" = 40' Horizontal
1" = 4' Vertical

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			SHEET NO. 27
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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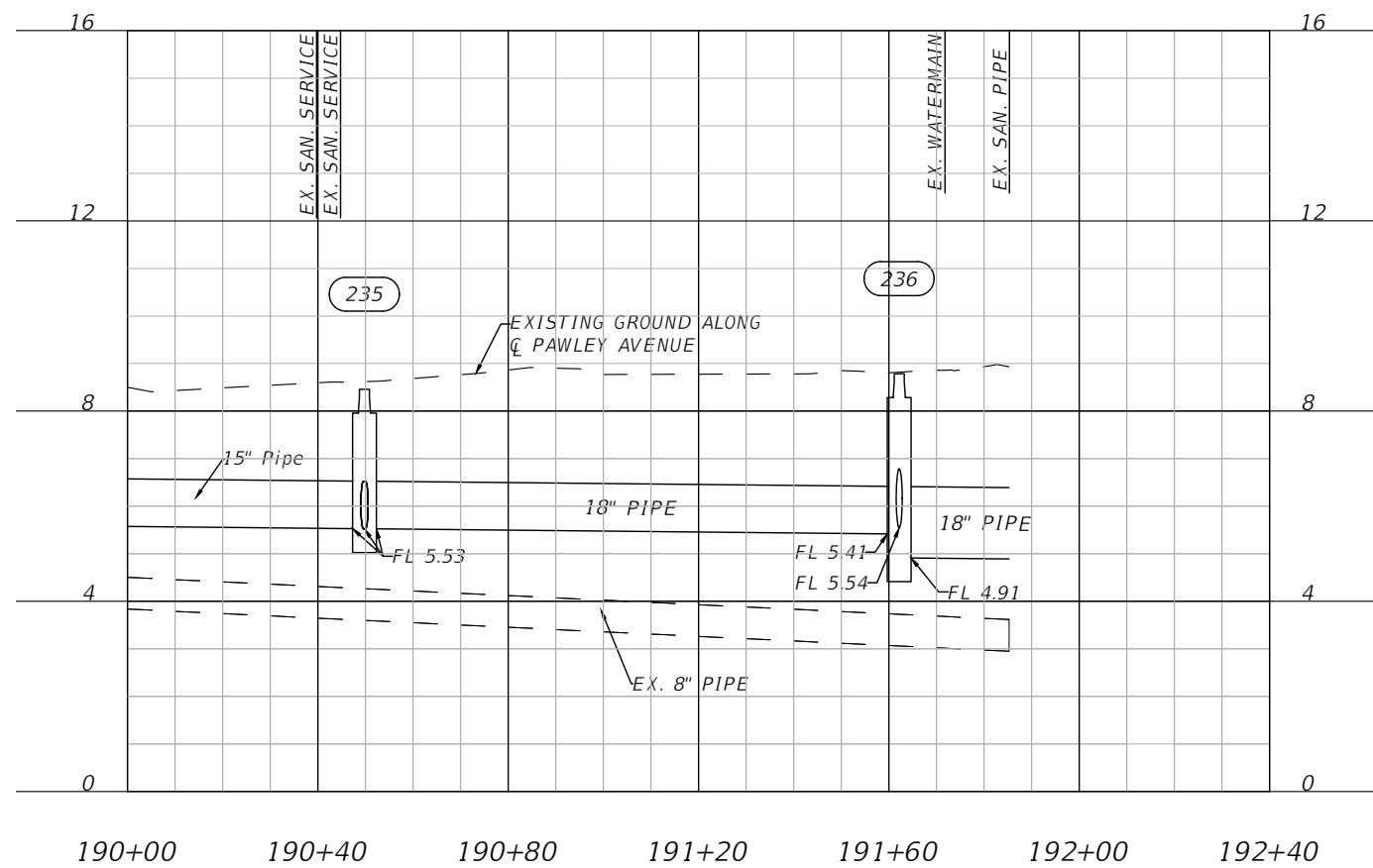
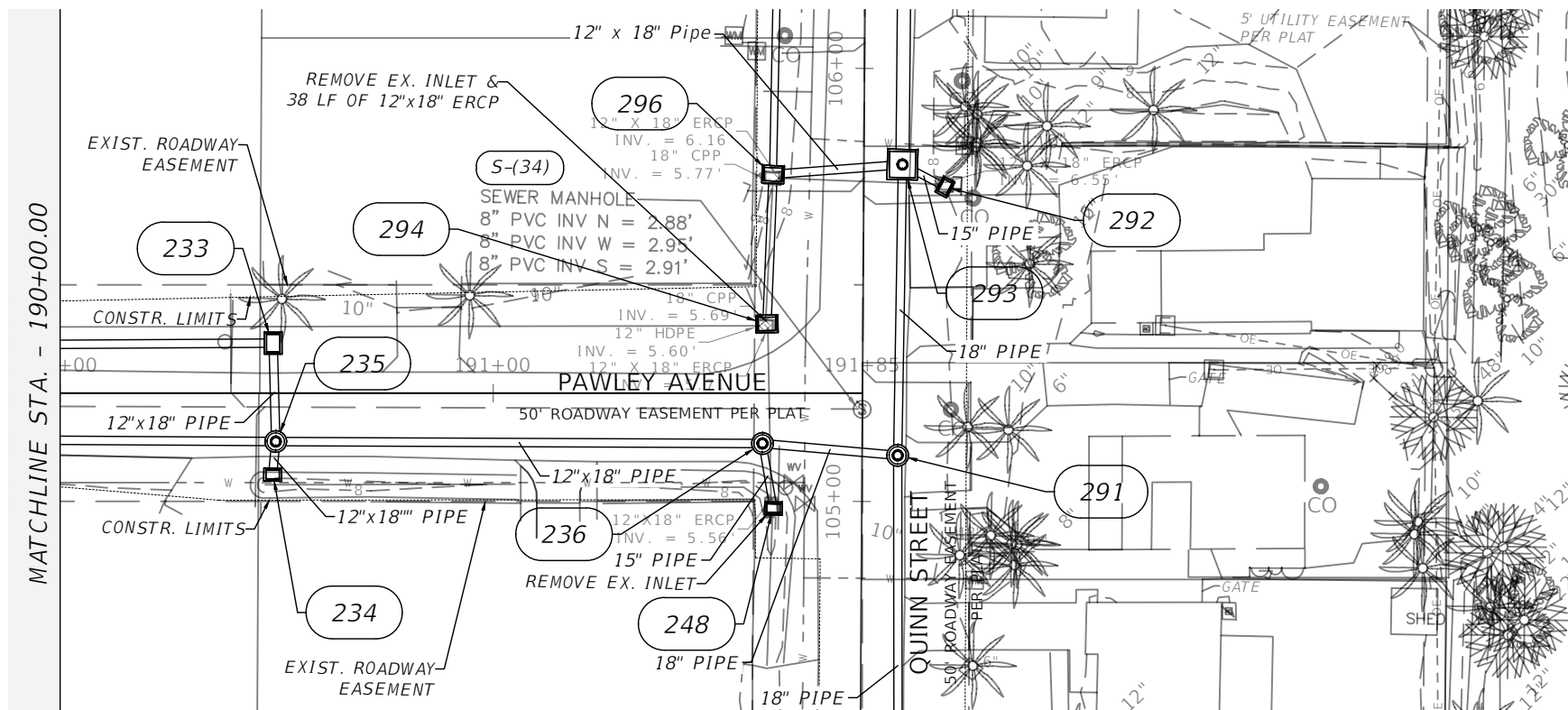
**STORM SEWER PLAN & PROFILE
PAWLEY AVE**



1" = 40' Horizontal
1" = 4' Vertical

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			SHEET NO. 28
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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**STORM SEWER PLAN & PROFILE
PAWLEY AVE**



1" = 40' Horizontal
1" = 4' Vertical

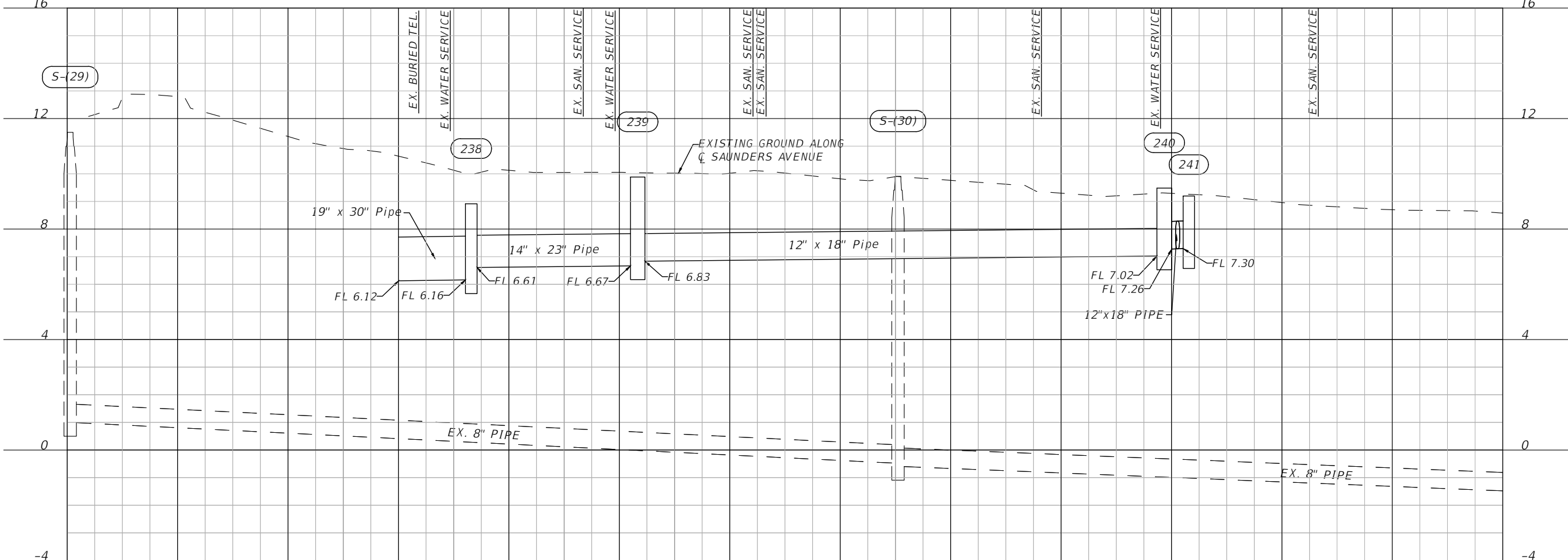
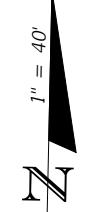
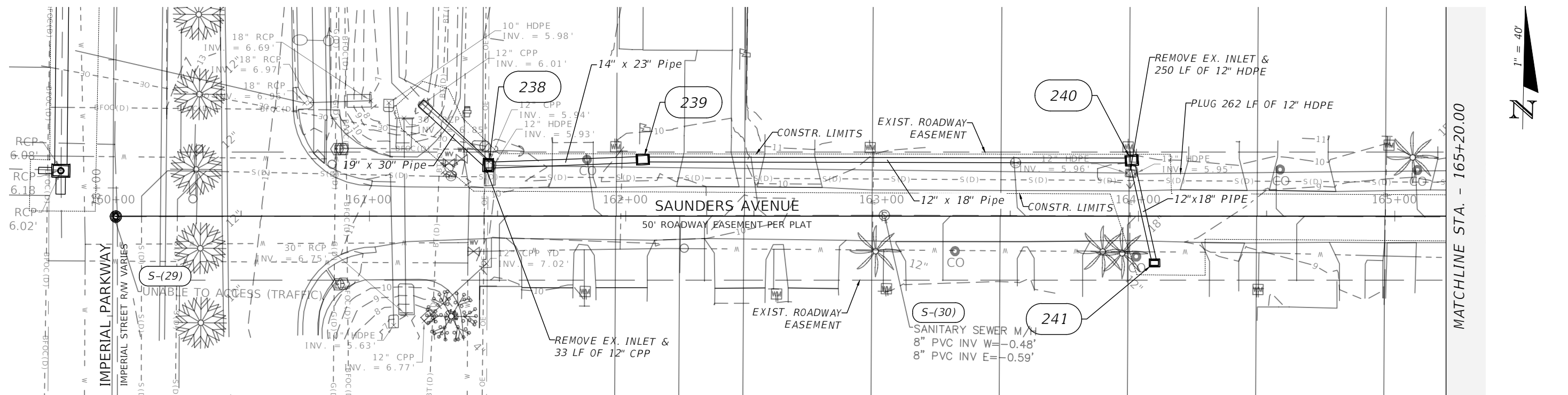
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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ENGINEER OF RECORD FULL NAME, P.E.
P.E. LICENSE NUMBER 00000
AMERICAN STRUCTUREPOINT INC.
5405 CYPRESS CENTER DR., SUITE 310
TAMPA, FL 33609
CERTIFICATE OF AUTHORIZATION 00000000

CITY OF BONITA SPRINGS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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STORM SEWER PLAN & PROFILE
PAWLEY AVE

SHEET NO.
29



1" = 40' Horizontal
1" = 4' Vertical

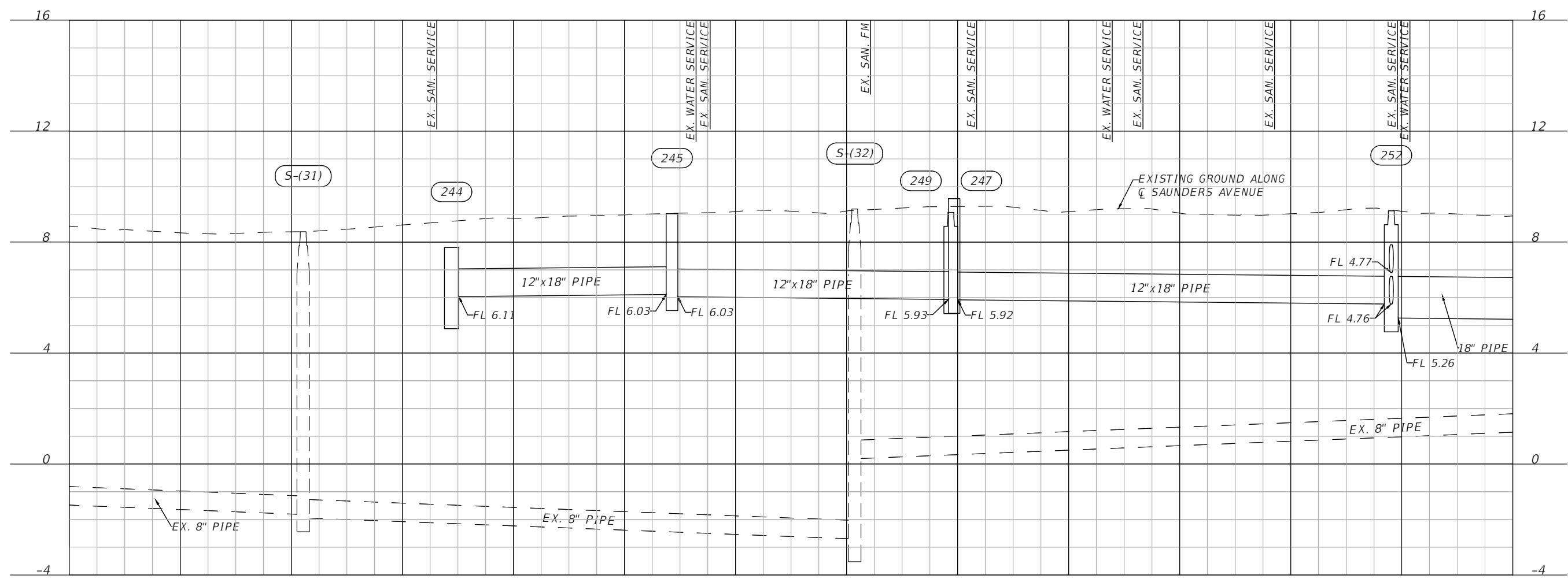
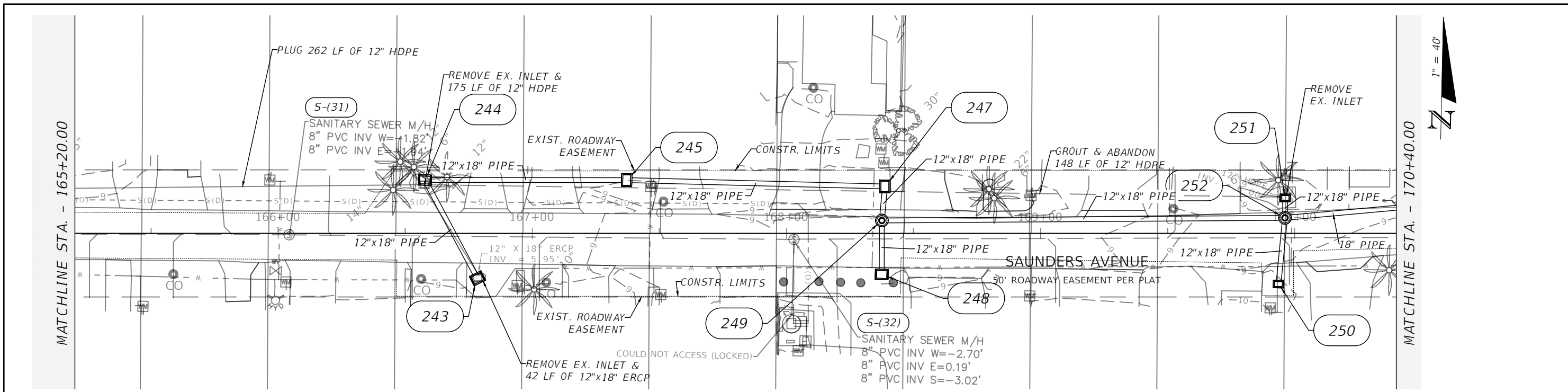
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD FULL NAME, P.E.
P.E. LICENSE NUMBER 00000
AMERICAN STRUCTUREPOINT INC.
5405 CYPRESS CENTER DR., SUITE 310
TAMPA, FL 33609
CERTIFICATE OF AUTHORIZATION 00000000

CITY OF BONITA SPRINGS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID

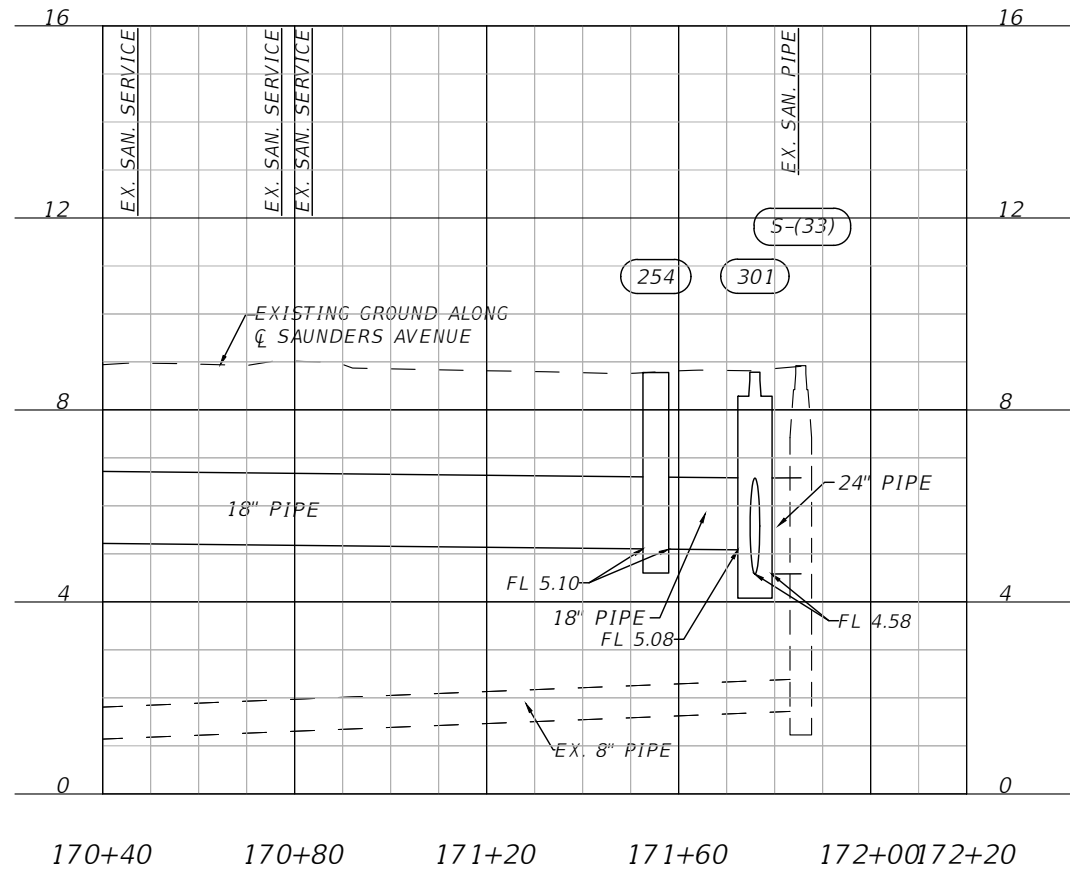
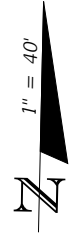
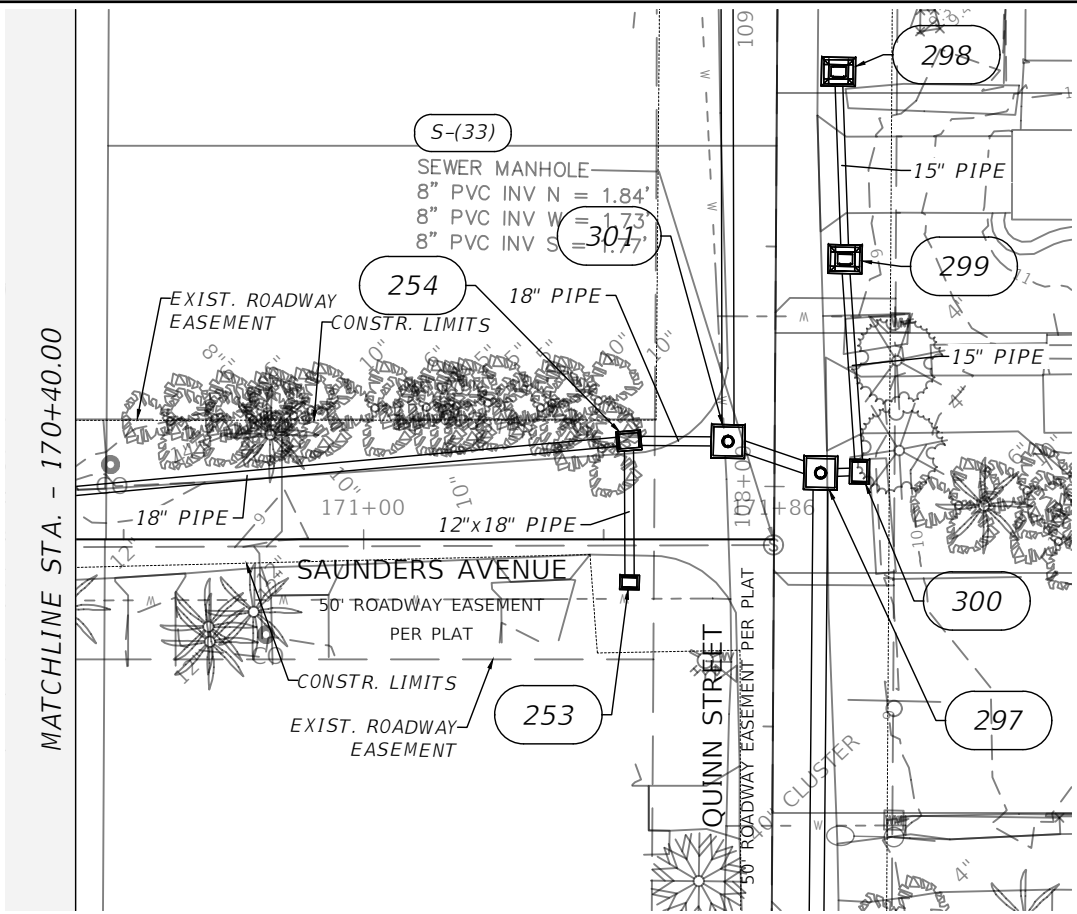
STORM SEWER PLAN & PROFILE
SAUNDERS AVE

SHEET NO.
30



165+20 165+60 166+00 166+40 166+80 167+20 167+60 168+00 168+40 168+80 169+20 169+60 170+00 170+40 1" = 40' Horizontal
 1" = 4' Vertical

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			SHEET NO. 31
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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1" = 40' Horizontal
1" = 4' Vertical

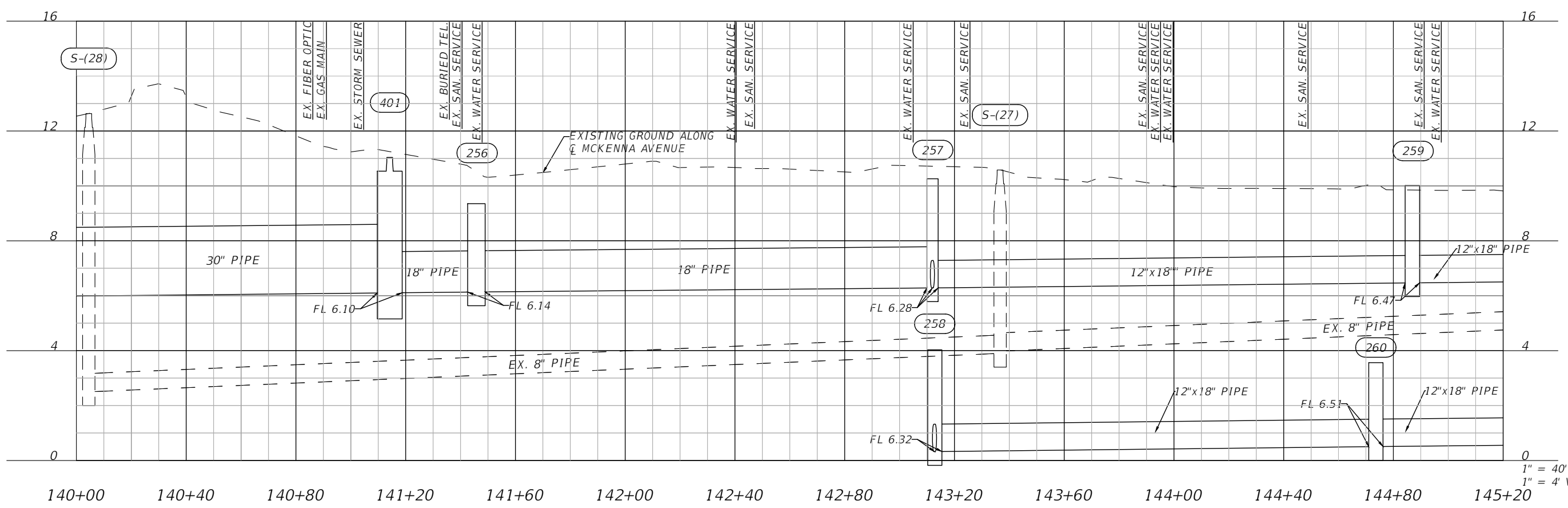
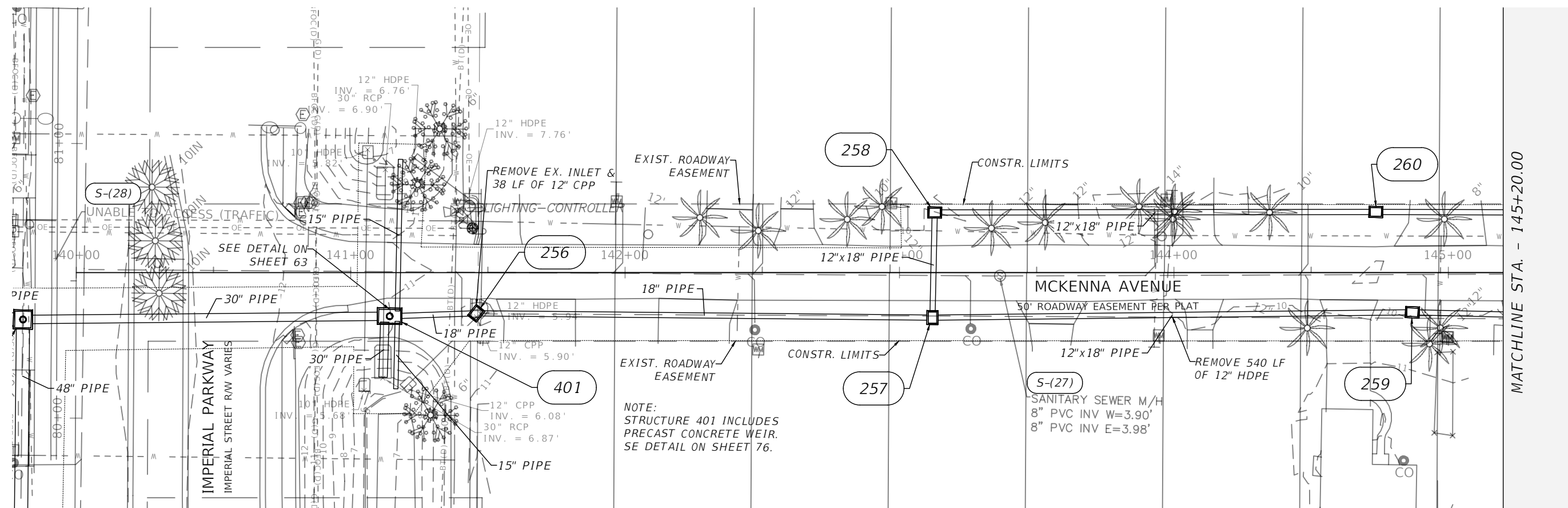
DATE	DESCRIPTION	DATE	DESCRIPTION
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ENGINEER OF RECORD FULL NAME, P.E.
P.E. LICENSE NUMBER 00000
AMERICAN STRUCTUREPOINT INC.
5405 CYPRESS CENTER DR., SUITE 310
TAMPA, FL 33609
CERTIFICATE OF AUTHORIZATION 00000000

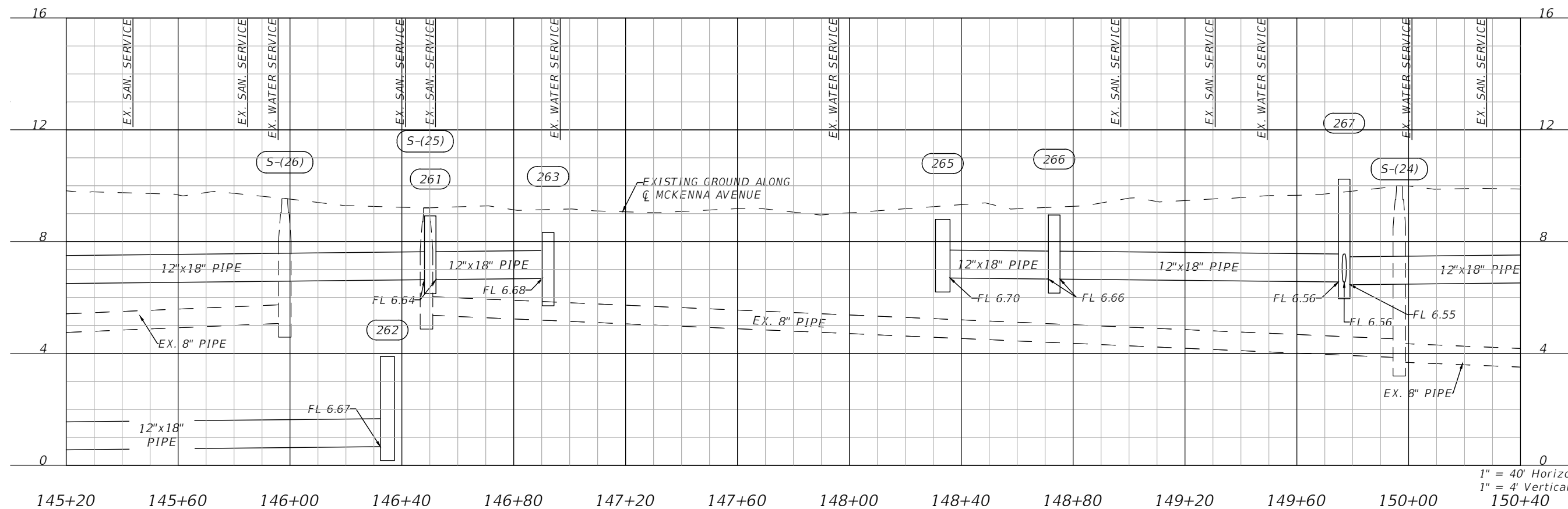
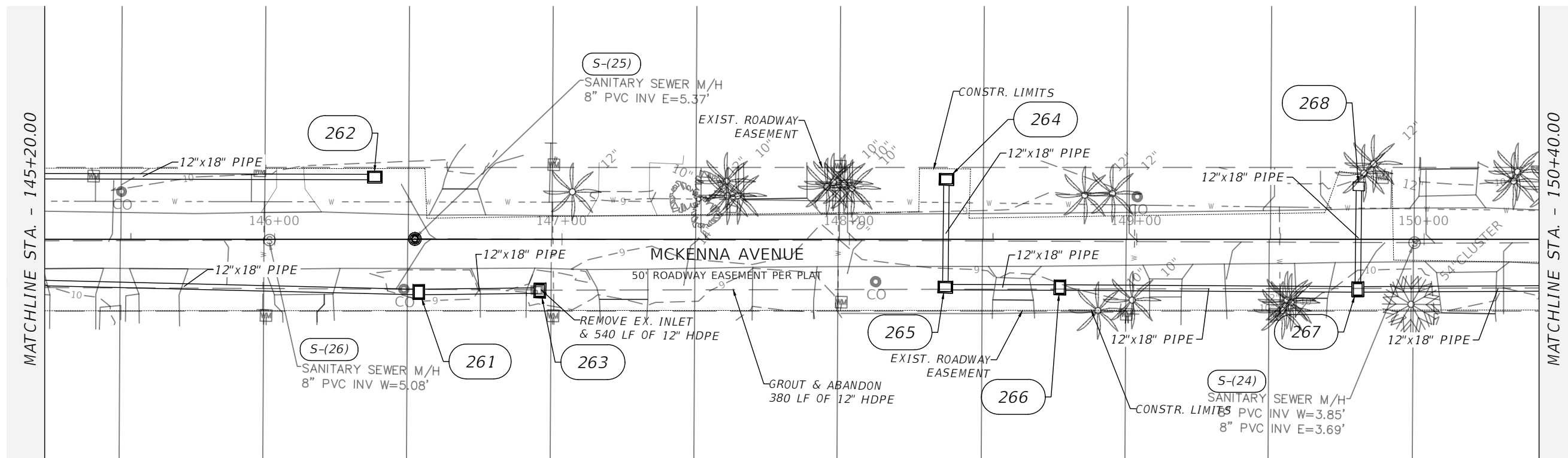
CITY OF BONITA SPRINGS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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STORM SEWER PLAN & PROFILE
SAUNDERS AVE

SHEET NO.
32



DATE	DESCRIPTION	DATE	DESCRIPTION	ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000			CITY OF BONITA SPRINGS			SHEET NO. 33
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1" = 40' Horizontal
1" = 4' Vertical

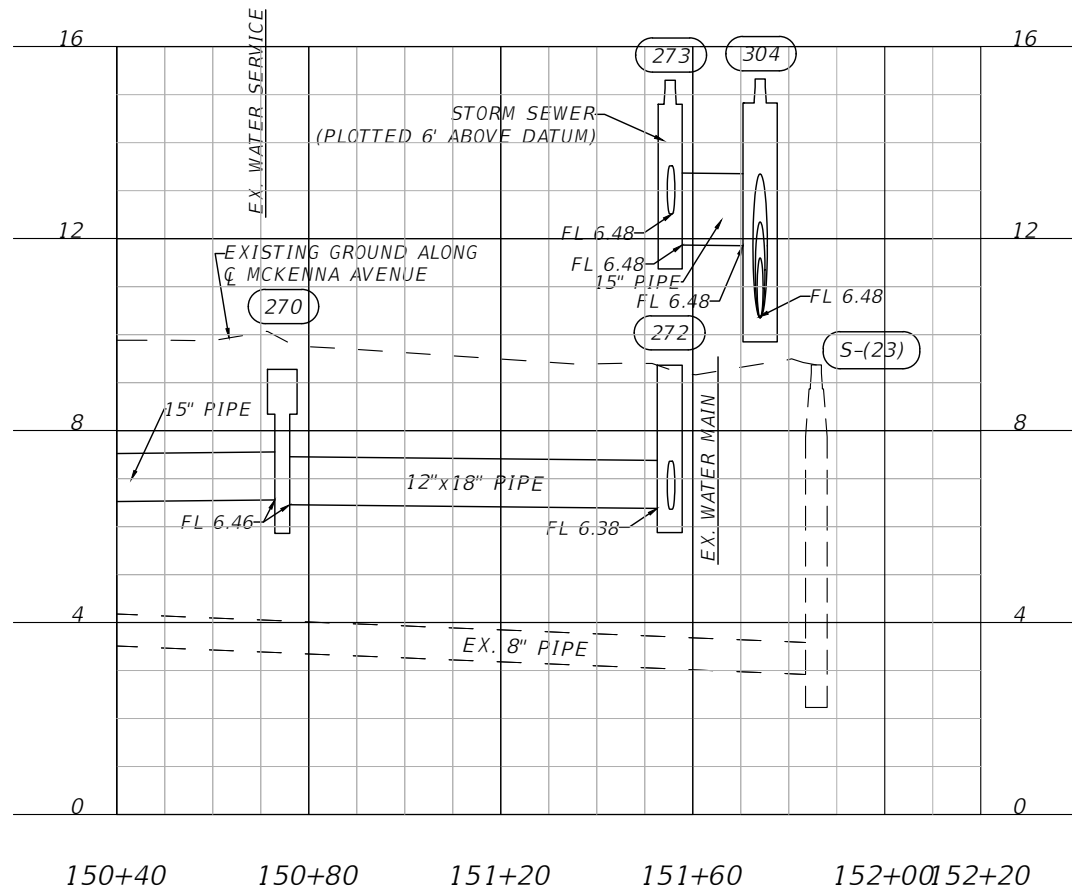
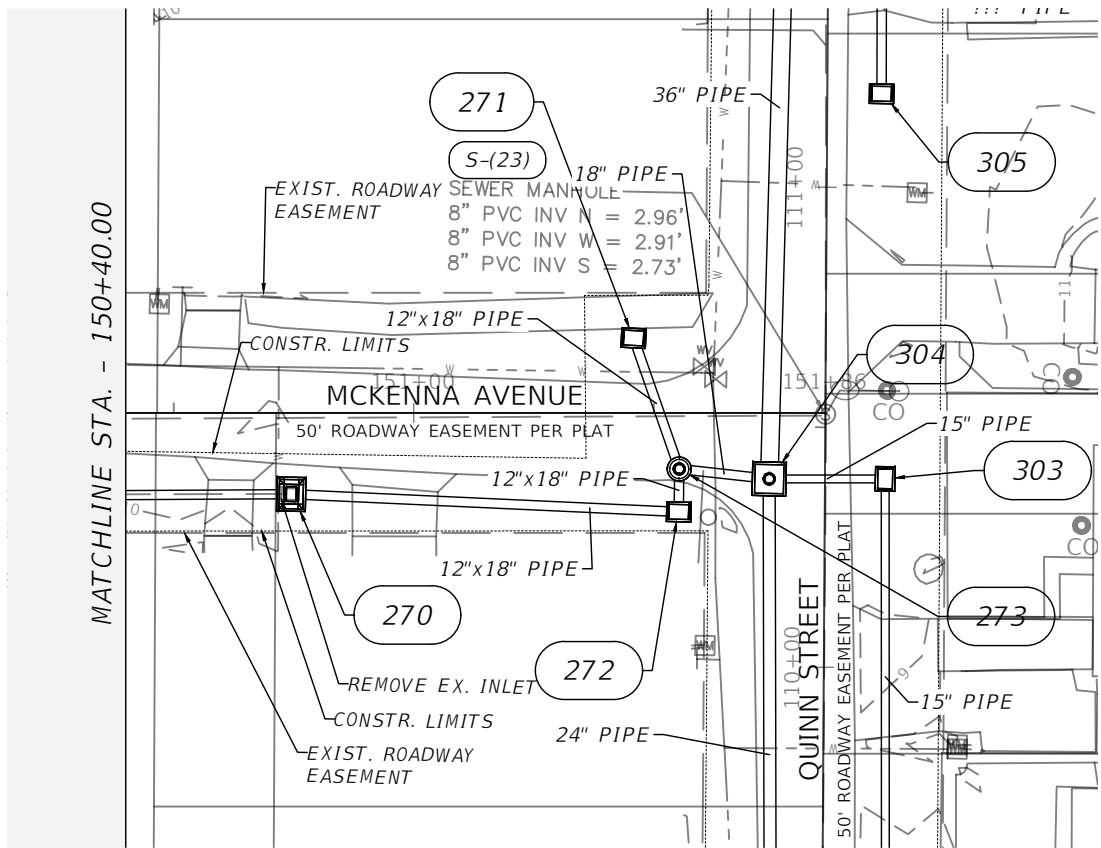
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD FULL NAME, P.E.
P.E. LICENSE NUMBER 00000
AMERICAN STRUCTUREPOINT INC.
5405 CYPRESS CENTER DR., SUITE 310
TAMPA, FL 33609
CERTIFICATE OF AUTHORIZATION 00000000

CITY OF BONITA SPRINGS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID

STORM SEWER PLAN & PROFILE
MCKENNA AVE

SHEET NO.
34



1" = 40' Horizontal
1" = 4' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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ENGINEER OF RECORD FULL NAME, P.E.
P.E. LICENSE NUMBER 00000
AMERICAN STRUCTUREPOINT INC.
5405 CYPRESS CENTER DR., SUITE 310
TAMPA, FL 33609
CERTIFICATE OF AUTHORIZATION 00000000

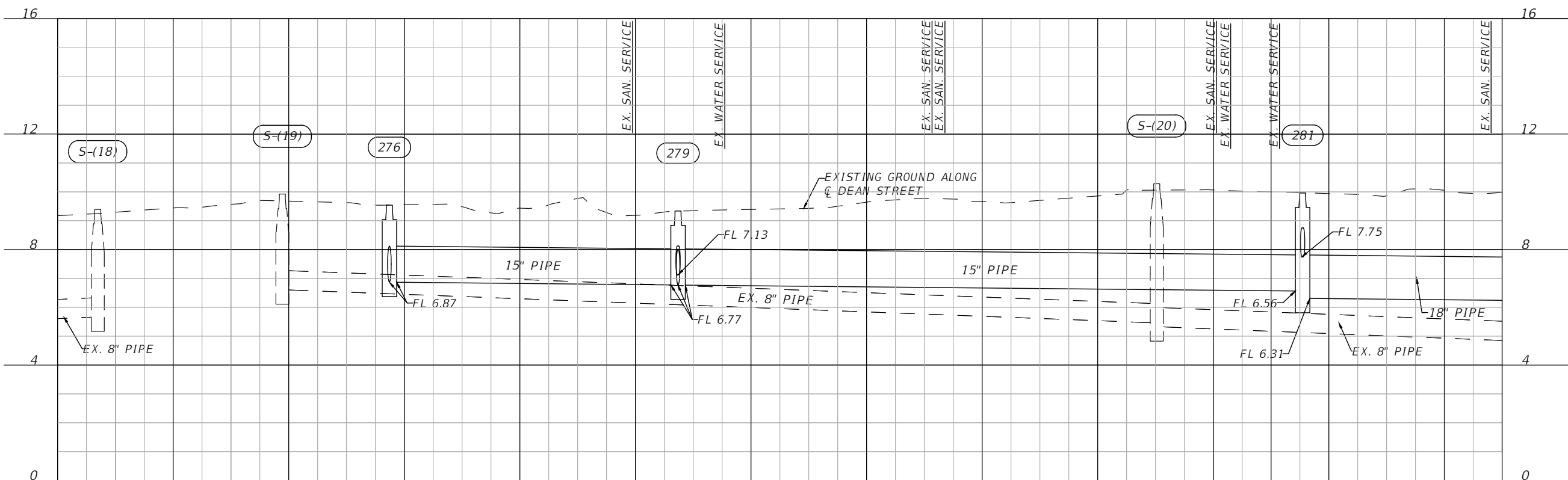
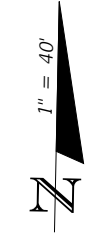
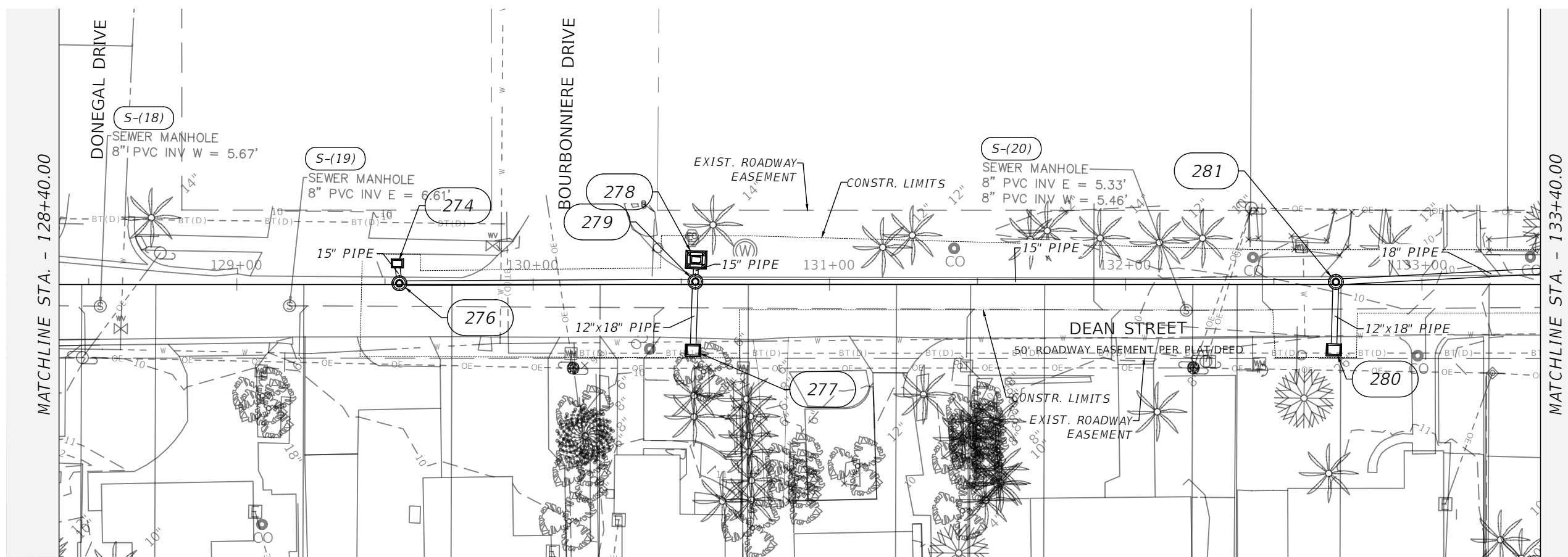
CITY OF BONITA SPRINGS

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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STORM SEWER PLAN & PROFILE
MCKENNA AVE

SHEET NO.

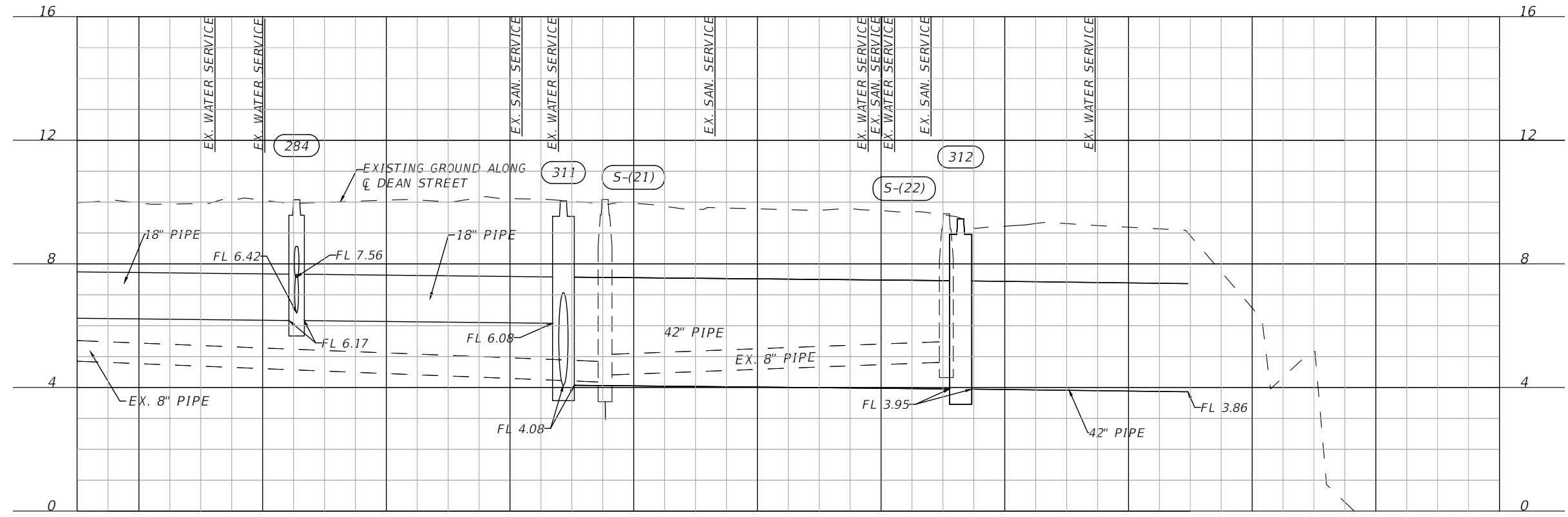
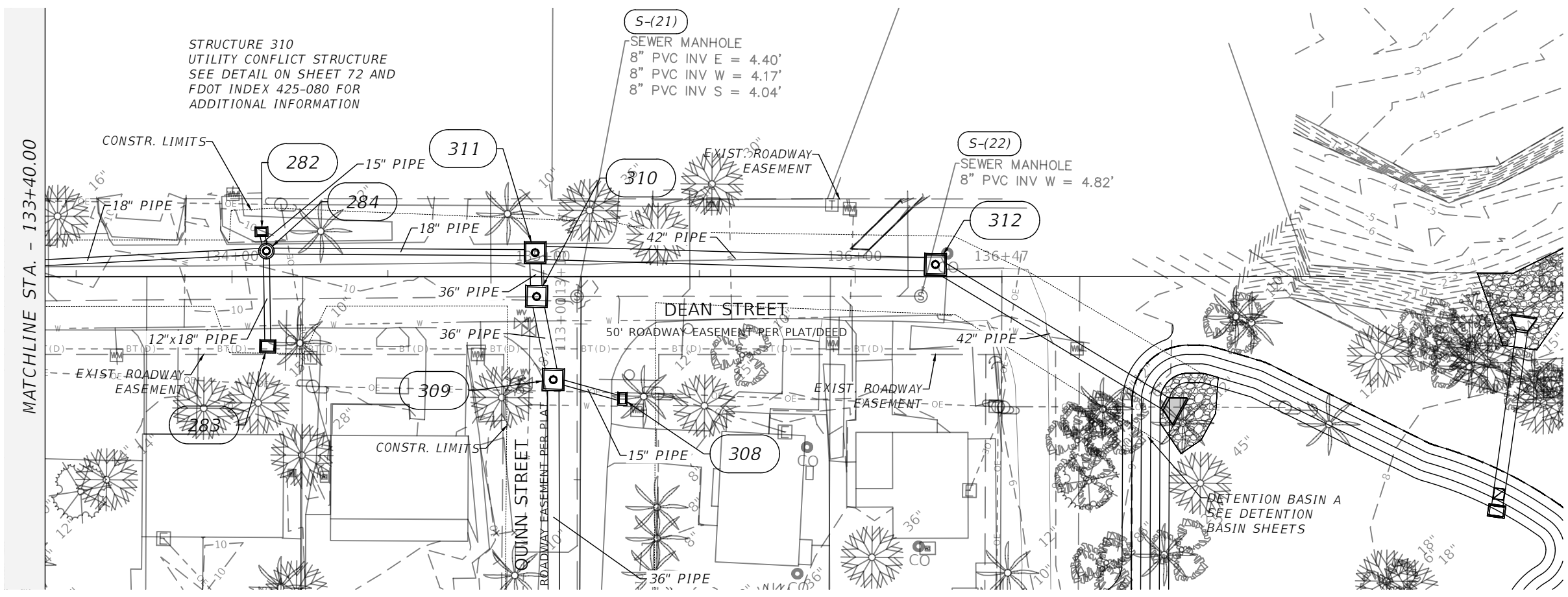
35



128+40 128+80 129+20 129+60 130+00 130+40 130+80 131+20 131+60 132+00 132+40 132+80 133+00 133+40

1" = 40' Horizontal
1" = 4' Vertical

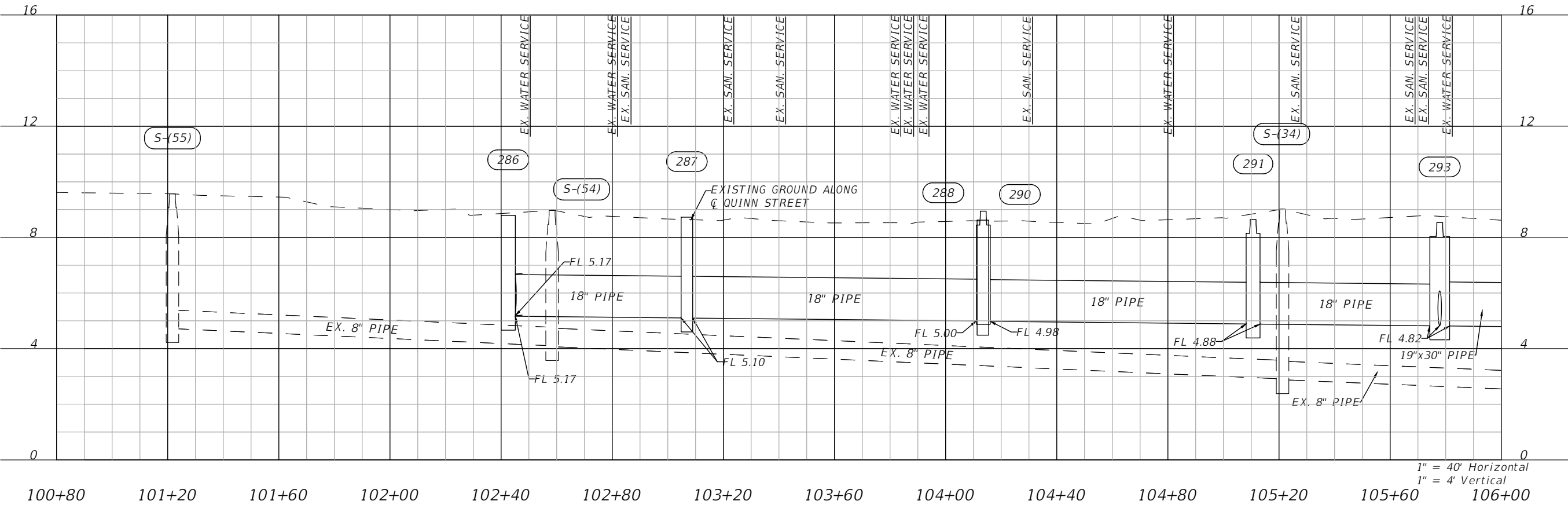
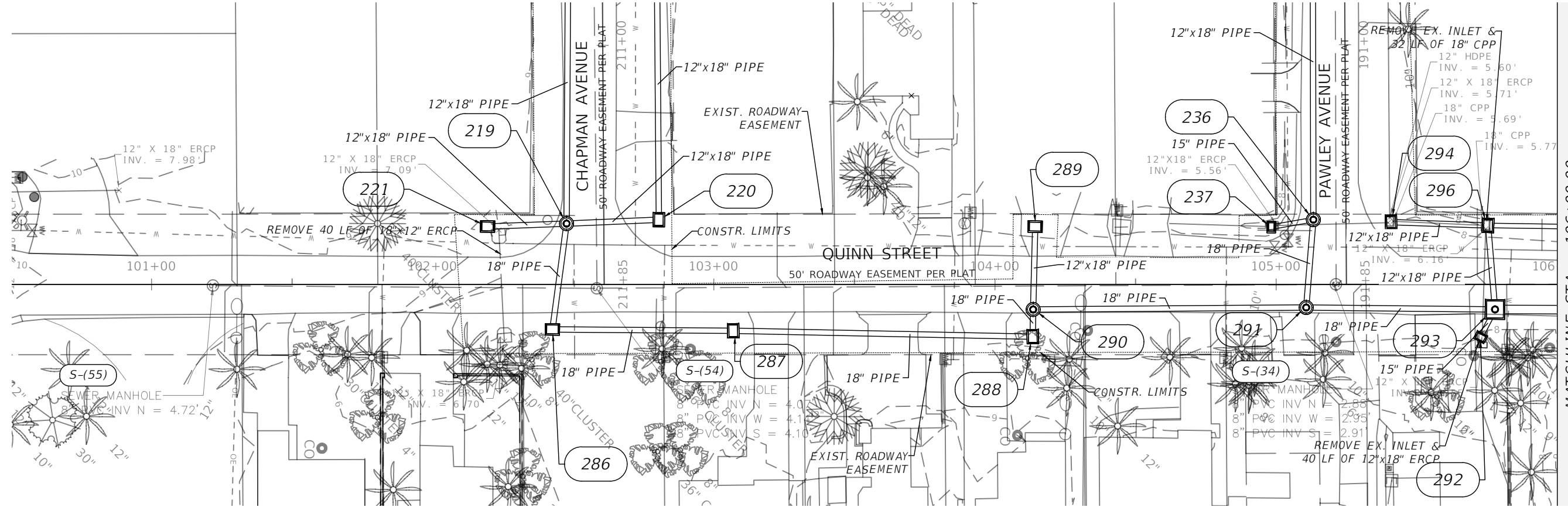
REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			SHEET NO. 36
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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133+40 133+60 134+00 134+40 134+80 135+20 135+60 136+00 136+40 136+80 137+20 137+60 138+00

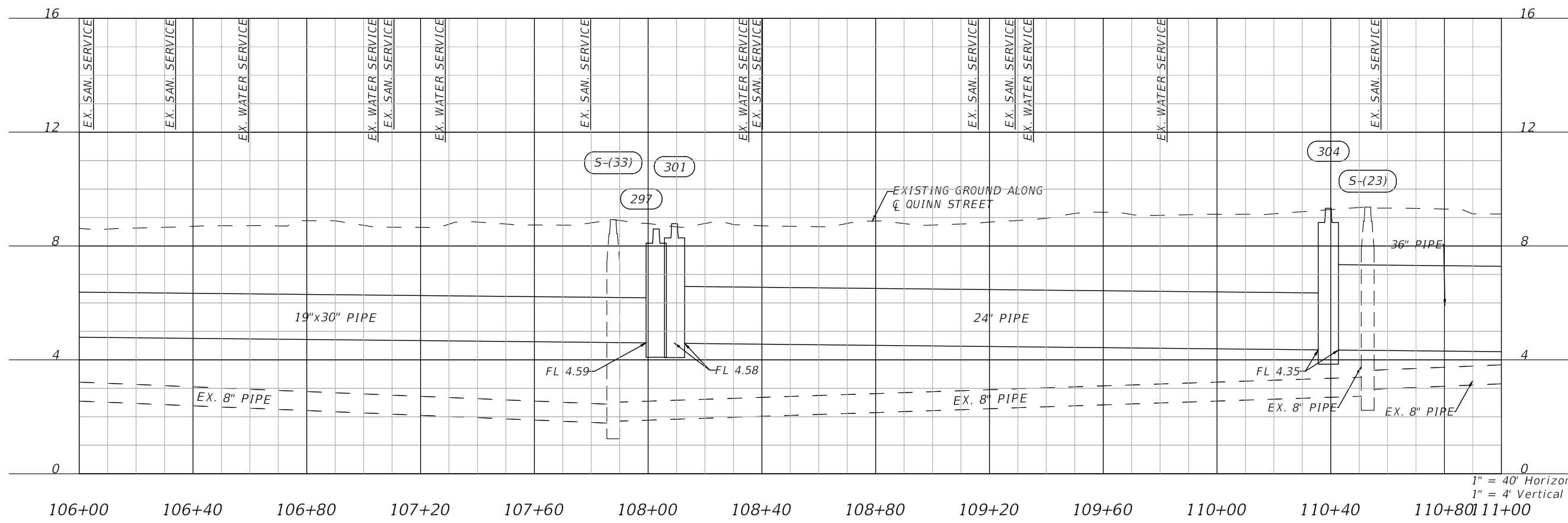
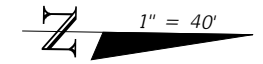
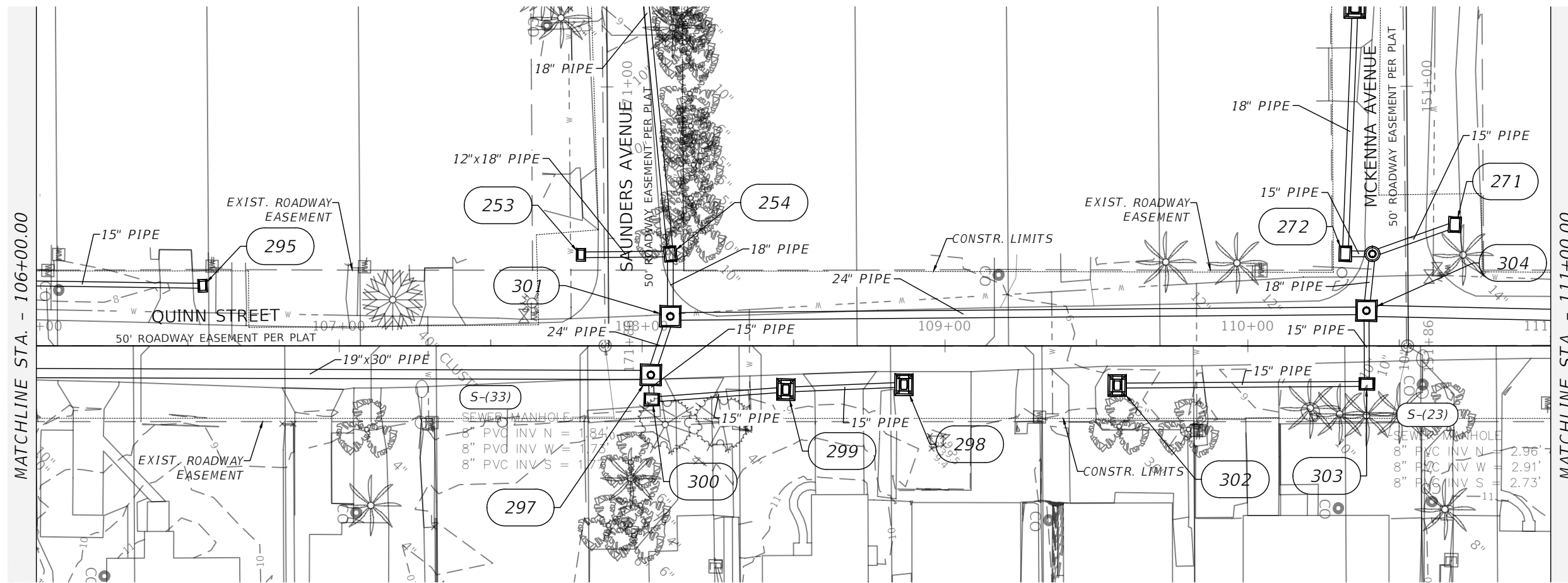
1" = 40' Horizontal
1" = 4' Vertical

DATE		DESCRIPTION		ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000		CITY OF BONITA SPRINGS		STORM SEWER PLAN & PROFILE DEAN ST	SHEET NO. 37
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1" = 40' Horizontal
1" = 4' Vertical

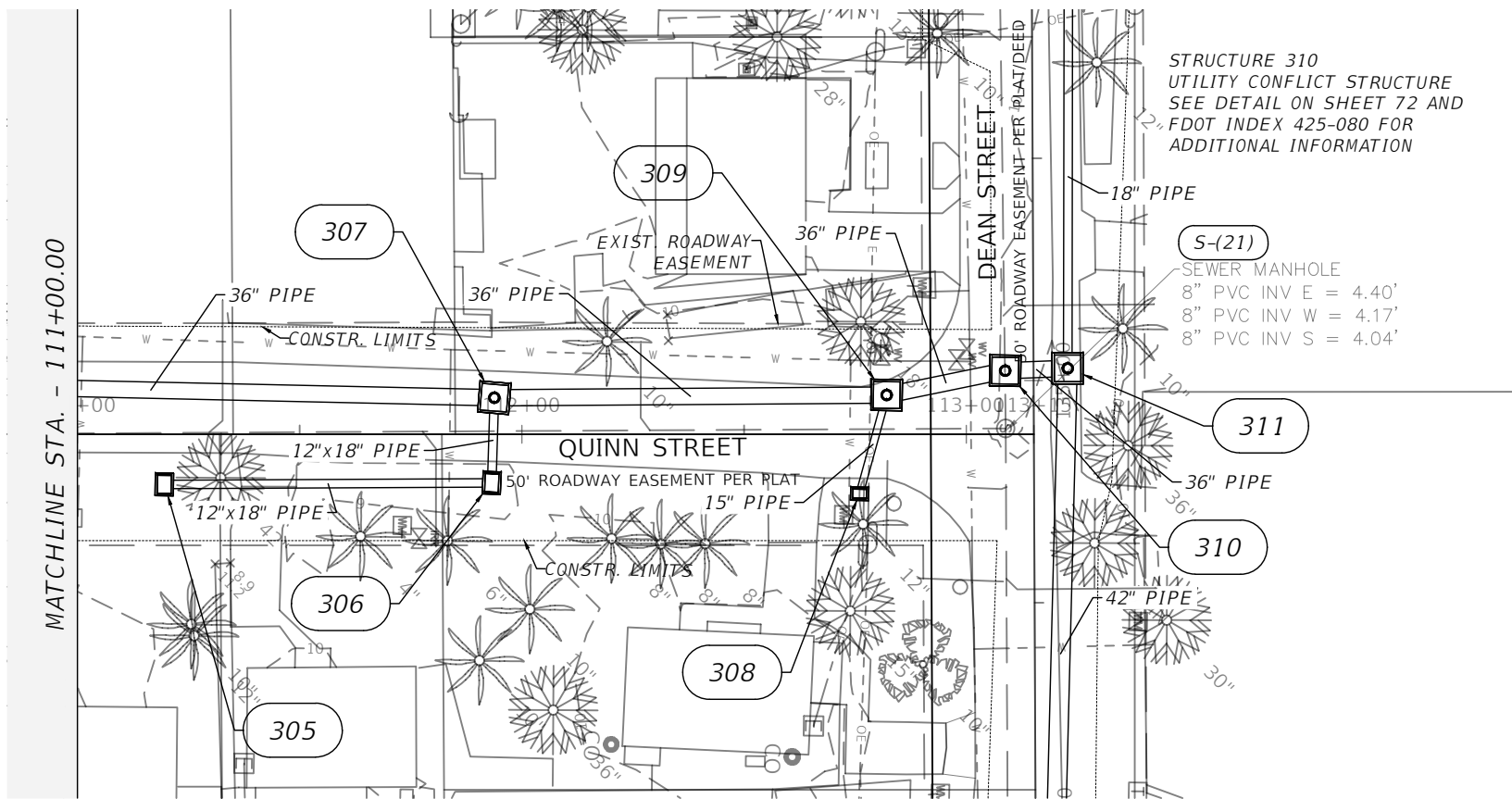
DATE		DESCRIPTION		DATE		DESCRIPTION		ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS ROAD NO. COUNTY FINANCIAL PROJECT ID ----			STORM SEWER PLAN & PROFILE QUINN ST	SHEET NO.
													38



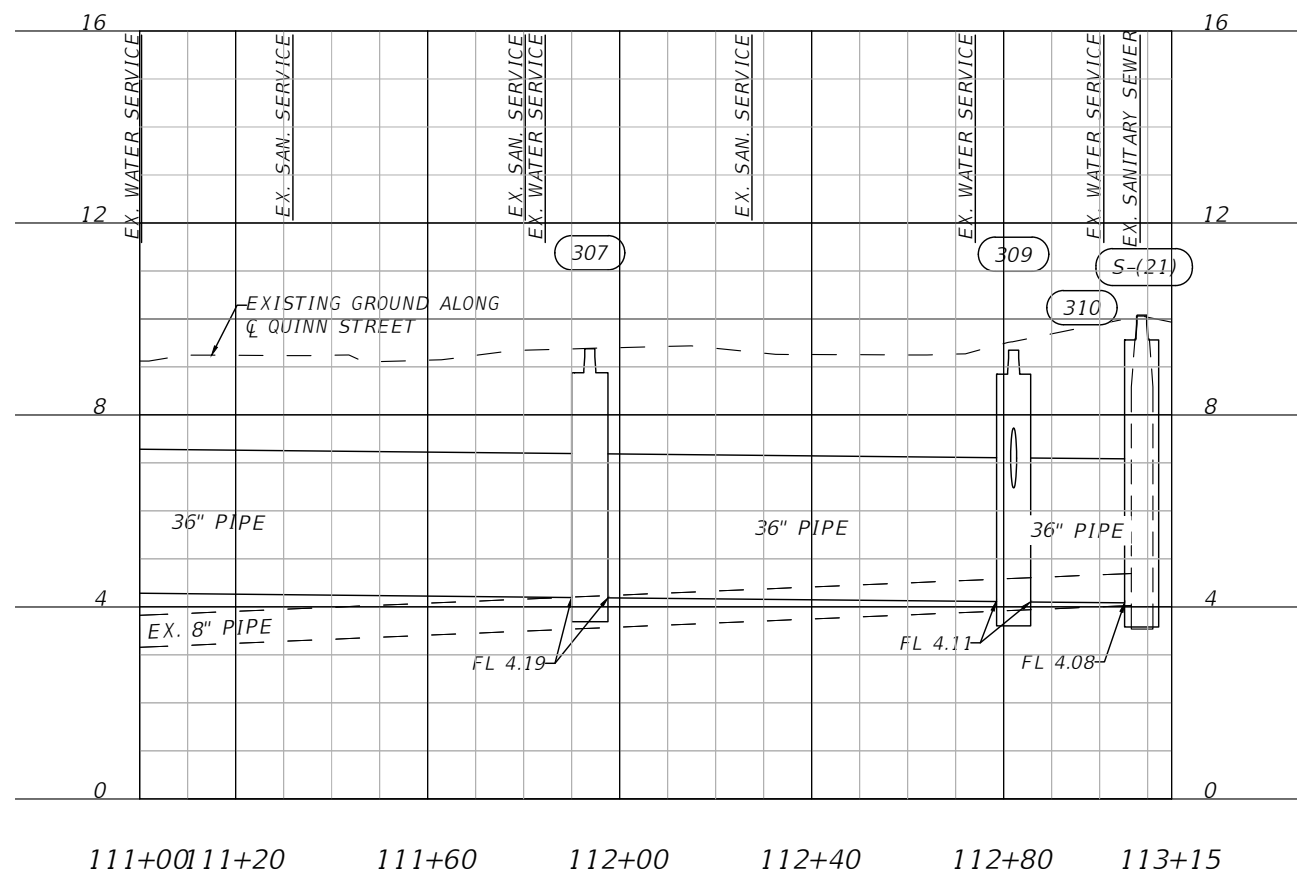
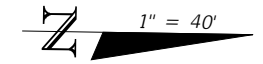
1" = 40' Horizontal
1" = 4' Vertical

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			SHEET NO. 39
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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STORM SEWER PLAN & PROFILE
QUINN ST



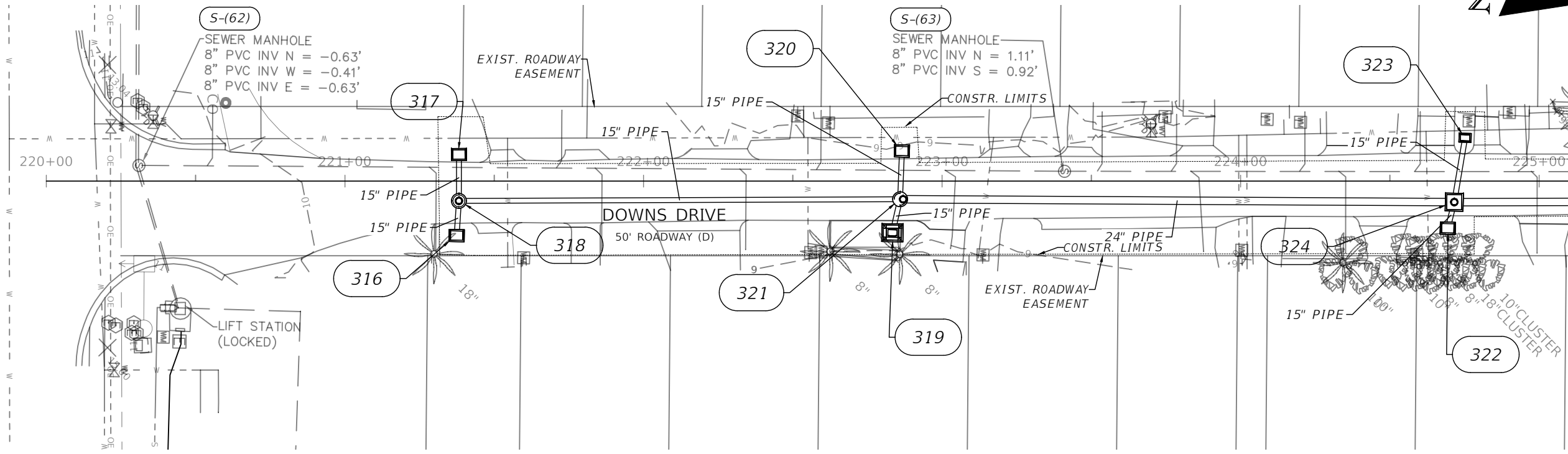
STRUCTURE 310
UTILITY CONFLICT STRUCTURE
SEE DETAIL ON SHEET 72 AND
FDOT INDEX 425-080 FOR
ADDITIONAL INFORMATION



1" = 40' Horizontal
1" = 4' Vertical

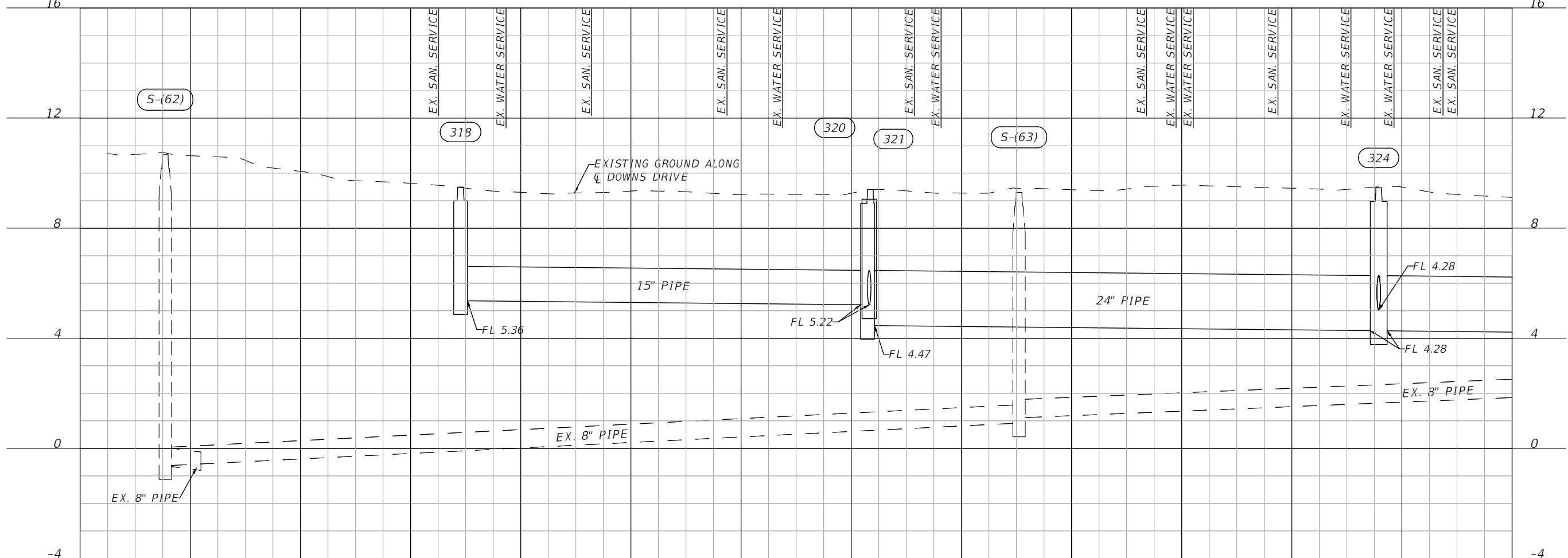
DATE		DESCRIPTION		ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000		CITY OF BONITA SPRINGS		STORM SEWER PLAN & PROFILE QUINN ST	SHEET NO.	
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1" = 40'



16

16



1" = 40' Horizontal
1" = 4' Vertical

220+00 220+40 220+80 221+20 221+60 222+00 222+40 222+80 223+20 223+60 224+00 224+40 224+80 225+20

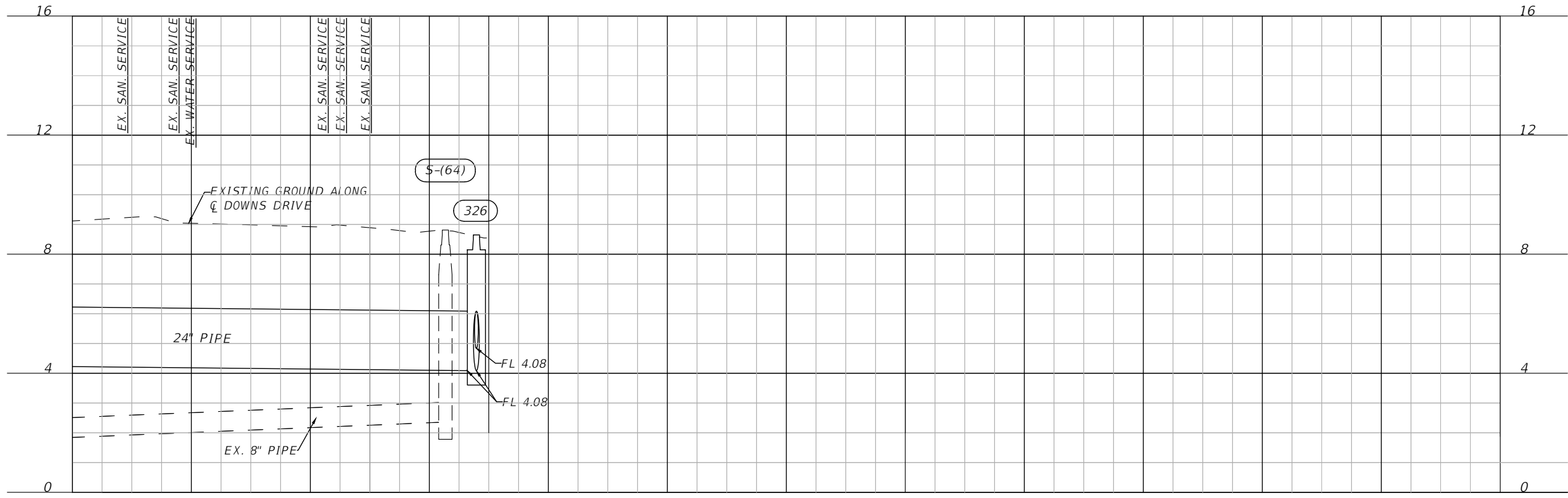
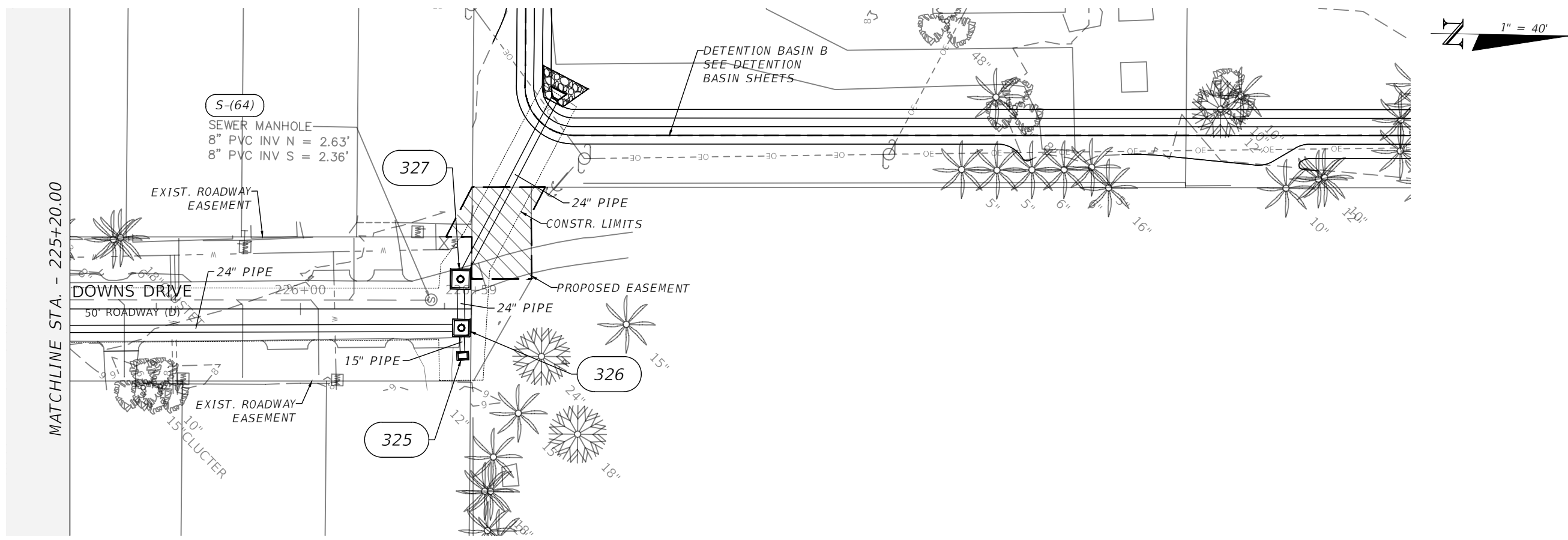
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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ENGINEER OF RECORD FULL NAME, P.E.
P.E. LICENSE NUMBER 00000
AMERICAN STRUCTUREPOINT INC.
5405 CYPRESS CENTER DR., SUITE 310
TAMPA, FL 33609
CERTIFICATE OF AUTHORIZATION 00000000

CITY OF BONITA SPRINGS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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**STORM SEWER PLAN & PROFILE
DOWNS DR**

SHEET NO.
41



225+20 225+60 226+00 226+40 226+80 227+20 227+60 228+00 228+40 228+80 229+20 229+60 230+00

1" = 40' Horizontal
1" = 4' Vertical

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			SHEET NO. 42
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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<p>STR. NO. 100 STA. 39+59.90 (20.2' Lt.) CONST. ζ ORANGE BLOSSOM DR. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type C TOR: 9.35 INV: 6.96, S, 12"x18" PIPE</p> <p>STR. NO. 101 STA. 39+59.86 (6.9' Rt.) CONST. ζ ORANGE BLOSSOM DR. CONST. Index No. 425-001 - Type P7 Manhole (Center Cover, Round Bottom) TOR: 9.69 INV: 6.93, N, 12"x18" PIPE INV: 6.93, W, 12"x18" PIPE</p> <p>STR. NO. 102 STA. 37+99.72 (7.6' Rt.) CONST. ζ ORANGE BLOSSOM DR. CONST. Index No. 425-001 - Type P7 Manhole (Center Cover, Round Bottom) TOR: 9.25 INV: 6.77, E, 12"x18" PIPE INV: 6.77, N, 15" PIPE INV: 6.77, W, 12"x18" PIPE</p> <p>STR. NO. 103 STA. 36+16.18 (7.8' Rt.) CONST. ζ ORANGE BLOSSOM DR. CONST. Index No. 425-001 - Type P7 Manhole (Center Cover, Round Bottom) TOR: 9.14 INV: 6.59, E, 12"x18" PIPE INV: 6.59, W, 12"x18" PIPE</p>	<p>STR. NO. 104 STA. 35+03.37 (7.6' Rt.) CONST. ζ ORANGE BLOSSOM DR. CONST. Index No. 425-001 - Type P7 Manhole (Center Cover, Round Bottom) TOR: 8.90 INV: 6.48, E, 12"x18" PIPE INV: 6.00, S, 15" PIPE INV: 6.48, W, 12"x18" PIPE</p> <p>STR. NO. 105 STA. 34+20.16 (22.3' Lt.) CONST. ζ ORANGE BLOSSOM DR. CONST. Index No. 425-050 - Ditch Bottom Inlet - Type A TOR: 8.36 INV: 5.95, S, 15" PIPE</p> <p>STR. NO. 106 STA. 34+18.38 (6.9' Rt.) CONST. ζ ORANGE BLOSSOM DR. CONST. Index No. 425-001 - Type P7 Manhole (Center Cover, Round Bottom) TOR: 9.37 INV: 6.39, E, 12"x18" PIPE INV: 5.92, N, 15" PIPE INV: 6.23, W, 14"x23" PIPE INV: 5.91, S, 12"x18" PIPE</p> <p>STR. NO. 107 STA. 32+69.66 (16.3' Rt.) CONST. ζ ORANGE BLOSSOM DR. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type C TOR: 8.98 INV: 6.23, N, 15" PIPE</p>	<p>STR. NO. 108 STA. 32+69.96 (7.7' Rt.) CONST. ζ ORANGE BLOSSOM DR. CONST. Index No. 425-001 - Type P7 Manhole (Center Cover, Round Bottom) TOR: 8.92 INV: 6.06, E, 14"x23" PIPE INV: 6.22, S, 15" PIPE INV: 6.06, W, 14"x23" PIPE</p> <p>STR. NO. 109 STA. 30+72.20 (19.1' Rt.) CONST. ζ ORANGE BLOSSOM DR. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type C TOR: 9.06 INV: 5.89, N, 15" PIPE</p> <p>STR. NO. 110 STA. 30+70.04 (7.9' Rt.) CONST. ζ ORANGE BLOSSOM DR. CONST. Index No. 425-001 - Type P7 Manhole (Center Cover, Round Bottom) TOR: 9.21 INV: 5.88, E, 14"x23" PIPE INV: 5.88, S, 15" PIPE INV: 5.88, W, 14"x23" PIPE</p> <p>STR. NO. 111 STA. 22+45.06 (13.9' Rt.) CONST. ζ LIME ST. CONST. Index No. 425-001 - Type J7 Manhole (Center Cover, Rectangular Bottom) TOR: 9.28 INV: 5.81, E, 14"x23" PIPE INV: 5.70, S, 19"x30" PIPE</p>	<p>STR. NO. 112 STA. 20+18.46 (11.7' Rt.) CONST. ζ LIME ST. CONST. Index No. 425-001 - Type J7 Manhole (Center Cover, Rectangular Bottom) TOR: 10.67 INV: 5.46, N, 19"x30" PIPE INV: 5.31, W, 19"x30" PIPE</p> <p>STR. NO. 113 STA. 20+17.70 (34.6' Lt.) CONST. ζ LIME ST. CONST. Index No. 425-001 - Type J7 Manhole (Center Cover, Rectangular Bottom) TOR: 10.84 INV: 5.26, E, 19"x30" PIPE INV: 6.32, N, 24" PIPE INV: 5.25, S, 36" PIPE</p> <p>STR. NO. 114 STA. 50+96.16 (21.7' Rt.) CONST. ζ TANGERINE DR. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 8.87 INV: 6.62, E, 12"x18" PIPE INV: 6.62, W, 12"x18" PIPE</p> <p>STR. NO. 115 SEE DRAINAGE PIPE DETAILS</p>	<p>STR. NO. 116 STA. 24+98.37 (12.7' Rt.) CONST. ζ LIME ST. CONST. Index No. 425-001 - Type J7 Manhole (Center Cover, Rectangular Bottom) TOR: 9.50 INV: 6.53, NE, 15" PIPE INV: 6.53, E, 12"x18" PIPE INV: 6.53, S, 12"x18" PIPE</p> <p>STR. NO. 117 STA. 24+34.56 (8.6' Rt.) CONST. ζ LIME ST. CONST. Index No. 425-001 - Type P7 Manhole (Center Cover, Round Bottom) TOR: 9.27 INV: 6.46, N, 12"x18" PIPE INV: 6.46, S, 12"x18" PIPE</p> <p>STR. NO. 118 STA. 23+17.92 (7.1' Rt.) CONST. ζ LIME ST. CONST. Index No. 425-001 - Type P7 Manhole (Center Cover, Round Bottom) TOR: 9.31 INV: 6.35, N, 12"x18" PIPE INV: 6.34, S, 12"x18" PIPE</p> <p>STR. NO. 128 STA. 58+02.53 (23.6' Rt.) CONST. ζ TANGERINE DR. CONST. Index No. 425-050 - Ditch Bottom Inlet - Type A TOR: 10.12 INV: 7.43, N, 15" PIPE INV: 7.43, S, 15" PIPE</p>
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REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			DRAINAGE STRUCTURE DETAILS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		43
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<p>STR. NO. 129 STA. 58+02.81 (125.2' Rt.) CONST. ζ TANGERINE DR. CONST. Index No. 425-050 - Ditch Bottom Inlet - Type A TOR: 10.02 INV: 7.33, N, 15" PIPE INV: 7.33, S, 15" PIPE</p> <p>STR. NO. 133 STA. 25+43.17 (23.1' Lt.) CONST. ζ LIME ST. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type C TOR: 9.99 INV: 7.32, N, 15" PIPE INV: 7.32, S, 15" PIPE</p> <p>STR. NO. 201 STA. 201+45.00 (17.7' Lt.) CONST. ζ CHAPMAN AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 9.28 INV: 6.90, E, 14"x23" PIPE INV: 6.90, NW, 14"x23" PIPE</p> <p>STR. NO. 202 STA. 202+22.81 (19.6' Lt.) CONST. ζ CHAPMAN AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 9.30 INV: 6.99, E, 14"x23" PIPE INV: 6.99, W, 14"x23" PIPE</p>	<p>STR. NO. 203 STA. 203+34.41 (19.9' Lt.) CONST. ζ CHAPMAN AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 9.66 INV: 7.11, E, 12"x18" PIPE INV: 7.09, W, 14"x23" PIPE</p> <p>STR. NO. 204 NOT AVAILABLE STR. NO. NOT USED</p> <p>STR. NO. 205 NOT AVAILABLE STR. NO. NOT USED</p> <p>STR. NO. 206 STA. 204+54.16 (18.3' Lt.) CONST. ζ CHAPMAN AVE. CONST. Index No. 425-050 - Ditch Bottom Inlet - Type A TOR: 9.64 INV: 7.22, W, 12"x18" PIPE</p> <p>STR. NO. 207 STA. 205+21.38 (18.7' Lt.) CONST. ζ CHAPMAN AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 9.19 INV: 7.00, S, 12"x18" PIPE</p>	<p>STR. NO. 208 STA. 205+19.69 (21.8' Rt.) CONST. ζ CHAPMAN AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 9.87 INV: 6.96, N, 12"x18" PIPE INV: 6.78, E, 12"x18" PIPE</p> <p>STR. NO. 209 STA. 206+51.79 (20.2' Rt.) CONST. ζ CHAPMAN AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 9.20 INV: 6.65, W, 12"x18" PIPE INV: 6.65, N, 12"x18" PIPE</p> <p>STR. NO. 210 STA. 206+53.75 (19.6' Lt.) CONST. ζ CHAPMAN AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 8.86 INV: 7.00, S, 12"x18" PIPE</p> <p>STR. NO. 211 STA. 206+53.98 (12.1' Rt.) CONST. ζ CHAPMAN AVE. CONST. Index No. 425-010 - Type P7 Manhole (Center Cover, Round Bottom) TOR: 9.93 INV: 6.97, N, 12"x18" PIPE INV: 6.64, S, 12"x18" PIPE INV: 6.64, E, 12"x18" PIPE</p>	<p>STR. NO. 212 STA. 208+84.70 (19.8' Rt.) CONST. ζ CHAPMAN AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 9.11 INV: 6.42, N, 12"x18" PIPE</p> <p>STR. NO. 213 STA. 208+86.37 (12.3' Rt.) CONST. ζ CHAPMAN AVE. CONST. Index No. 425-010 - Type P7 Manhole (Center Cover, Round Bottom) TOR: 9.44 INV: 6.41, W, 12"x18" PIPE INV: 6.41, S, 12"x18" PIPE INV: 6.41, E, 12"x18" PIPE</p> <p>STR. NO. 214 STA. 208+83.27 (20.7' Lt.) CONST. ζ CHAPMAN AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 9.36 INV: 6.02, E, 12"x18" PIPE</p> <p>STR. NO. 215 STA. 209+81.22 (20.9' Lt.) CONST. ζ CHAPMAN AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 8.85 INV: 5.92, W, 12"x18" PIPE INV: 5.92, E, 12"x18" PIPE</p>	<p>STR. NO. 216 STA. 210+65.77 (19.5' Lt.) CONST. ζ CHAPMAN AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 8.79 INV: 5.83, W, 12"x18" PIPE INV: 5.83, E, 12"x18" PIPE</p> <p>STR. NO. 217 STA. 210+63.58 (20.3' Rt.) CONST. ζ CHAPMAN AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type C TOR: 8.69 INV: 6.24, N, 12"x18" PIPE</p> <p>STR. NO. 218 STA. 210+62.84 (12.1' Rt.) CONST. ζ CHAPMAN AVE. CONST. Index No. 425-010 - Type P7 Manhole (Center Cover, Round Bottom) TOR: 9.26 INV: 6.23, W, 12"x18" PIPE INV: 6.23, S, 12"x18" PIPE INV: 6.23, E, 12"x18" PIPE</p> <p>STR. NO. 219 STA. 211+63.33 (13.3' Rt.) CONST. ζ CHAPMAN AVE. CONST. Index No. 425-010 - Type P7 Manhole (Center Cover, Round Bottom) TOR: 9.16 INV: 6.13, W, 12"x18" PIPE INV: 5.70, N, 12"x18" PIPE INV: 5.70, S, 12"x18" PIPE INV: 5.20, E, 18"x18" PIPE</p>
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REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			DRAINAGE STRUCTURE DETAILS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		44
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STR. NO. 220

STA. 211+62.16 (19.6' Lt.)
CONST. ζ CHAPMAN AVE.
CONST. Index No. 425-052 -
Ditch Bottom Inlet - Type D
TOR: 8.35
INV: 5.74, W, 12"x18" PIPE
INV: 5.74, S, 12"x18" PIPE

STR. NO. 221

STA. 211+64.19 (41.4' Rt.)
CONST. ζ CHAPMAN AVE.
CONST. Index No. 425-052 -
Ditch Bottom Inlet - Type D
TOR: 7.86
INV: 5.73, N, 12"x18" PIPE

STR. NO. 222

STA. 181+52.21 (18.2' Lt.)
CONST. ζ PAWLEY AVE.
CONST. Index No. 425-052 -
Ditch Bottom Inlet - Type D
TOR: 8.90
INV: 6.17, E, 14"x23" PIPE
INV: 6.17, NW, 14"x23" PIPE

STR. NO. 223

STA. 183+50.87 (16.0' Lt.)
CONST. ζ PAWLEY AVE.
CONST. Index No. 425-052 -
Ditch Bottom Inlet - Type D
TOR: 9.25
INV: 6.53, E, 12"x18" PIPE
INV: 6.36, S, 15" PIPE
INV: 6.36, W, 14"x23" PIPE

STR. NO. 224

STA. 183+48.09 (15.8' Rt.)
CONST. ζ PAWLEY AVE.
CONST. Index No. 425-052 -
Ditch Bottom Inlet - Type C
TOR: 9.05
INV: 6.40, N, 15" PIPE

STR. NO. 225

STA. 184+57.73 (14.9' Lt.)
CONST. ζ PAWLEY AVE.
CONST. Index No. 425-050 -
Ditch Bottom Inlet - Type A
TOR: 9.10
INV: 6.64, W, 12"x18" PIPE

STR. NO. 226

STA. 184+79.81 (17.3' Rt.)
CONST. ζ PAWLEY AVE.
CONST. Index No. 425-052 -
Ditch Bottom Inlet - Type D
TOR: 8.75
INV: 6.62, NE, 12"x18" PIPE

STR. NO. 227

STA. 185+53.15 (14.4' Lt.)
CONST. ζ PAWLEY AVE.
CONST. Index No. 425-052 -
Ditch Bottom Inlet - Type D
TOR: 8.90
INV: 6.54, SW, 12"x18" PIPE
INV: 6.54, E, 12"x18" PIPE

STR. NO. 228

STA. 186+27.70 (13.8' Lt.)
CONST. ζ PAWLEY AVE.
CONST. Index No. 425-052 -
Ditch Bottom Inlet - Type D
TOR: 9.01
INV: 6.47, W, 12"x18" PIPE
INV: 6.47, E, 12"x18" PIPE

STR. NO. 229

STA. 187+34.00 (14.2' Lt.)
CONST. ζ PAWLEY AVE.
CONST. Index No. 425-052 -
Ditch Bottom Inlet - Type D
TOR: 9.01
INV: 6.36, W, 12"x18" PIPE
INV: 6.36, E, 12"x18" PIPE

STR. NO. 230

STA. 187+93.73 (14.6' Lt.)
CONST. ζ PAWLEY AVE.
CONST. Index No. 425-052 -
Ditch Bottom Inlet - Type D
TOR: 8.42
INV: 6.30, W, 12"x18" PIPE
INV: 6.30, SE, 12"x18" PIPE

STR. NO. 231

STA. 188+14.34 (9.9' Rt.)
CONST. ζ PAWLEY AVE.
CONST. Index No. 425-001 -
Type 7 Manhole (1 or 2-Piece
Cover (Center), Round Bottom)
TOR: 8.84
INV: 6.27, NW, 12"x18" PIPE
INV: 5.76, E, 12"x18" PIPE

STR. NO. 232

STA. 189+53.22 (11.0' Lt.)
CONST. ζ PAWLEY AVE.
CONST. Index No. 425-050 -
Ditch Bottom Inlet - Type A
TOR: 8.25
INV: 5.64, E, 12"x18" PIPE

STR. NO. 233

STA. 190+49.21 (11.6' Lt.)
CONST. ζ PAWLEY AVE.
CONST. Index No. 425-052 -
Ditch Bottom Inlet - Type D
TOR: 8.64
INV: 5.55, W, 12"x18" PIPE
INV: 5.55, S, 12"x18" PIPE

STR. NO. 234

STA. 190+49.09 (18.8' Rt.)
CONST. ζ PAWLEY AVE.
CONST. Index No. 425-052 -
Ditch Bottom Inlet - Type C
TOR: 8.13
INV: 5.53, N, 12"x18" PIPE

STR. NO. 235

STA. 190+49.81 (11.2' Rt.)
CONST. ζ PAWLEY AVE.
CONST. Index No. 425-010 -
Type P7 Manhole (Center Cover,
Round Bottom)
TOR: 8.46
INV: 5.53, W, 12"x18" PIPE
INV: 5.53, S, 12"x18" PIPE
INV: 5.53, N, 12"x18" PIPE
INV: 5.53, E, 12"x18" PIPE

STR. NO. 236

STA. 191+62.19 (11.6' Rt.)
CONST. ζ PAWLEY AVE.
CONST. Index No. 425-010 -
Type P7 Manhole (Center Cover,
Round Bottom)
TOR: 8.78
INV: 5.54, S, 15" PIPE
INV: 5.41, W, 12"x18" PIPE
INV: 4.91, E, 18"x18" PIPE

STR. NO. 237

STA. 191+64.73 (26.6' Rt.)
CONST. ζ PAWLEY AVE.
CONST. Index No. 425-052 -
Ditch Bottom Inlet - Type C
TOR: 8.22
INV: 5.56, N, 15" PIPE

STR. NO. 238

STA. 161+46.39 (19.9' Lt.)
CONST. ζ SAUNDERS AVE.
CONST. Index No. 425-052 -
Ditch Bottom Inlet - Type D
TOR: 8.91
INV: 6.61, E, 14"x23" PIPE
INV: 6.16, NW, 19"x30" PIPE

STR. NO. 239

STA. 162+06.68 (22.1' Lt.)
CONST. ζ SAUNDERS AVE.
CONST. Index No. 425-052 -
Ditch Bottom Inlet - Type D
TOR: 9.88
INV: 6.83, E, 12"x18" PIPE
INV: 6.67, W, 14"x23" PIPE

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			SHEET NO. 45
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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<p>STR. NO. 240 STA. 163+97.41 (21.7' Lt.) CONST. ζ SAUNDERS AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 9.48 INV: 7.26, S, 12"x18" PIPE INV: 7.02, W, 12"x18" PIPE</p> <p>STR. NO. 241 STA. 164+06.29 (18.3' Rt.) CONST. ζ SAUNDERS AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type C TOR: 9.20 INV: 7.30, N, 12"x18" PIPE</p> <p>STR. NO. 242 NOT AVAILABLE STR. NO. NOT USED</p> <p>STR. NO. 243 STA. 166+78.44 (17.7' Rt.) CONST. ζ SAUNDERS AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 7.86 INV: 6.39, NW, 12"x18" PIPE</p>	<p>STR. NO. 244 STA. 166+57.75 (21.0' Lt.) CONST. ζ SAUNDERS AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 7.80 INV: 6.33, SE, 12"x18" PIPE INV: 6.03, E, 12"x18" PIPE</p> <p>STR. NO. 245 STA. 167+37.14 (20.9' Lt.) CONST. ζ SAUNDERS AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 9.03 INV: 6.03, E, 12"x18" PIPE INV: 6.11, W, 12"x18" PIPE</p> <p>STR. NO. 246 NOT AVAILABLE STR. NO. NOT USED</p> <p>STR. NO. 247 STA. 168+38.78 (18.5' Lt.) CONST. ζ SAUNDERS AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 9.56 INV: 5.93, W, 12"x18" PIPE INV: 5.93, S, 12"x18" PIPE</p>	<p>STR. NO. 248 STA. 168+37.51 (16.2' Rt.) CONST. ζ SAUNDERS AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 9.22 INV: 6.70, N, 12"x18" PIPE</p> <p>STR. NO. 249 STA. 168+37.58 (5.1' Lt.) CONST. ζ SAUNDERS AVE. CONST. Index No. 425-001 - Type 7 Manhole (1 or 2-Piece Cover (Center), Round Bottom) TOR: 9.07 INV: 5.92, N, 12"x18" PIPE INV: 6.68, S, 12"x18" PIPE INV: 5.92, E, 12"x18" PIPE</p> <p>STR. NO. 250 STA. 169+93.64 (19.9' Rt.) CONST. ζ SAUNDERS AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type C TOR: 9.14 INV: 6.93, N, 12"x18" PIPE</p> <p>STR. NO. 251 STA. 169+96.27 (13.9' Lt.) CONST. ζ SAUNDERS AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type C TOR: 7.90 INV: 5.77, S, 12"x18" PIPE</p>	<p>STR. NO. 252 STA. 169+96.22 (6.1' Lt.) CONST. ζ SAUNDERS AVE. CONST. Index No. 425-010 - Type P7 Manhole (Center Cover, Round Bottom) TOR: 9.13 INV: 5.76, W, 12"x18" PIPE INV: 5.76, N, 12"x18" PIPE INV: 6.90, S, 12"x18" PIPE INV: 5.26, E, 18" PIPE</p> <p>STR. NO. 253 STA. 171+55.39 (9.0' Rt.) CONST. ζ SAUNDERS AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type C TOR: 8.64 INV: 5.63, N, 12"x18" PIPE</p> <p>STR. NO. 254 STA. 171+55.26 (20.5' Lt.) CONST. ζ SAUNDERS AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 8.78 INV: 5.10, W, 18" PIPE INV: 5.60, S, 12"x18" PIPE INV: 5.10, E, 18" PIPE</p> <p>STR. NO. 255 NOT AVAILABLE STR. NO. NOT USED</p>	<p>STR. NO. 256 STA. 141+45.77 (14.8' Rt.) CONST. ζ McKENNA AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 9.35 INV: 6.14, E, 18" PIPE INV: 6.14, W, 18" PIPE</p> <p>STR. NO. 257 STA. 143+12.01 (16.4' Rt.) CONST. ζ McKENNA AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 10.26 INV: 6.28, E, 12"x18" PIPE INV: 6.28, N, 12"x18" PIPE INV: 6.28, W, 18" PIPE</p> <p>STR. NO. 258 STA. 143+12.85 (21.9' Lt.) CONST. ζ McKENNA AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 10.03 INV: 6.32, E, 12"x18" PIPE INV: 6.32, S, 12"x18" PIPE</p> <p>STR. NO. 259 STA. 144+86.90 (14.5' Rt.) CONST. ζ McKENNA AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 10.01 INV: 6.47, E, 12"x18" PIPE INV: 6.47, W, 12"x18" PIPE</p>
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<p>STR. NO. 260</p> <p>STA. 144+73.60 (22.1' Lt.) CONST. ζ McKENNA AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 9.56 INV: 6.51, E, 12"x18" PIPE INV: 6.51, W, 12"x18" PIPE</p>	<p>STR. NO. 264</p> <p>STA. 148+33.82 (20.8' Lt.) CONST. ζ McKENNA AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 8.79 INV: 6.74, S, 12"x18" PIPE</p>	<p>STR. NO. 268</p> <p>STA. 149+77.35 (18.4' Lt.) CONST. ζ McKENNA AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type C TOR: 9.86 INV: 6.59, S, 12"x18" PIPE</p>	<p>STR. NO. 272</p> <p>STA. 151+55.20 (20.6' Rt.) CONST. ζ McKENNA AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 9.36 INV: 6.38, W, 12"x18" PIPE INV: 6.38, N, 12"x18" PIPE</p>	<p>STR. NO. 276</p> <p>STA. 129+54.86 (0.4' Lt.) CONST. ζ DEAN ST. CONST. Index No. 425-010 - Type P7 Manhole (Center Cover, Round Bottom) TOR: 9.54 INV: 6.87, N, 15" PIPE INV: 6.87, E, 15" PIPE</p>
<p>STR. NO. 261</p> <p>STA. 146+50.17 (18.4' Rt.) CONST. ζ McKENNA AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 8.92 INV: 6.64, E, 12"x18" PIPE INV: 6.64, W, 12"x18" PIPE</p>	<p>STR. NO. 265</p> <p>STA. 148+33.41 (16.7' Rt.) CONST. ζ McKENNA AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 8.79 INV: 6.70, N, 12"x18" PIPE INV: 6.70, E, 12"x18" PIPE</p>	<p>STR. NO. 269</p> <p>NOT AVAILABLE STR. NO. NOT USED</p>	<p>STR. NO. 273</p> <p>STA. 151+55.29 (11.7' Rt.) CONST. ζ McKENNA AVE. CONST. Index No. 425-001 - Type 7 Manhole (1 or 2-Piece Cover (Center), Round Bottom) TOR: 9.30 INV: 6.48, N, 12"x18" PIPE INV: 6.37, S, 12"x18" PIPE INV: 5.87, E, 18"x18" PIPE</p>	<p>STR. NO. 277</p> <p>STA. 130+53.97 (22.3' Rt.) CONST. ζ DEAN ST. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 9.65 INV: 7.15, N, 12"x18" PIPE</p>
<p>STR. NO. 262</p> <p>STA. 146+34.90 (21.6' Lt.) CONST. ζ McKENNA AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 9.89 INV: 6.67, W, 12"x18" PIPE</p>	<p>STR. NO. 266</p> <p>STA. 148+73.28 (16.8' Rt.) CONST. ζ McKENNA AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 8.95 INV: 6.66, W, 12"x18" PIPE INV: 6.66, E, 12"x18" PIPE</p>	<p>STR. NO. 270</p> <p>STA. 150+74.48 (16.9' Rt.) CONST. ζ McKENNA AVE. CONST. Index No. 425-050 - Ditch Bottom Inlet - Type A TOR: 9.27 INV: 6.55, W, 12"x18" PIPE INV: 6.46, E, 12"x18" PIPE</p>	<p>STR. NO. 274</p> <p>STA. 129+54.18 (7.1' Lt.) CONST. ζ DEAN ST. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type C TOR: 9.43 INV: 6.88, S, 15" PIPE</p>	<p>STR. NO. 278</p> <p>STA. 130+55.06 (8.3' Lt.) CONST. ζ DEAN ST. CONST. Index No. 425-050 - Ditch Bottom Inlet - Type A TOR: 9.47 INV: 6.78, S, 15" PIPE</p>
<p>STR. NO. 263</p> <p>STA. 146+92.32 (17.9' Rt.) CONST. ζ McKENNA AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 8.33 INV: 6.68, W, 12"x18" PIPE</p>	<p>STR. NO. 267</p> <p>STA. 149+76.96 (17.5' Rt.) CONST. ζ McKENNA AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 10.23 INV: 6.56, W, 12"x18" PIPE INV: 6.46, E, 12"x18" PIPE INV: 6.56, N, 12"x18" PIPE</p>	<p>STR. NO. 271</p> <p>STA. 151+45.79 (15.6' Lt.) CONST. ζ McKENNA AVE. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 9.32 INV: 6.50, S, 12"x18" PIPE</p>	<p>STR. NO. 275</p> <p>NOT AVAILABLE STR. NO. NOT USED</p>	<p>STR. NO. 279</p> <p>STA. 130+54.77 (1.0' Lt.) CONST. ζ DEAN ST. CONST. Index No. 425-010 - Type P7 Manhole (Center Cover, Round Bottom) TOR: 9.33 INV: 7.13, S, 12"x18" PIPE INV: 6.77, N, 15" PIPE INV: 6.77, W, 15" PIPE INV: 6.77, E, 15" PIPE</p>

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<p>STR. NO. 280 STA. 132+70.24 (22.1' Rt.) CONST. \bar{C} DEAN ST. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 10.03 INV: 7.77, N, 12"x18" PIPE</p> <p>STR. NO. 281 STA. 132+70.93 (0.9' Lt.) CONST. \bar{C} DEAN ST. CONST. Index No. 425-010 - Type P7 Manhole (Center Cover, Round Bottom) TOR: 9.96 INV: 6.56, W, 15" PIPE INV: 7.75, S, 12"x18" PIPE INV: 6.31, E, 18" PIPE</p> <p>STR. NO. 282 STA. 134+09.46 (14.4' Lt.) CONST. \bar{C} DEAN ST. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type C TOR: 10.00 INV: 6.42, S, 15" PIPE</p> <p>STR. NO. 283 STA. 134+11.46 (22.4' Rt.) CONST. \bar{C} DEAN ST. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 9.80 INV: 7.59, N, 12"x18" PIPE</p>	<p>STR. NO. 284 STA. 134+11.02 (8.2' Lt.) CONST. \bar{C} DEAN ST. CONST. Index No. 425-010 - Type P7 Manhole (Center Cover, Round Bottom) TOR: 10.07 INV: 6.17, W, 18" PIPE INV: 6.42, N, 15" PIPE INV: 7.56, S, 12"x18" PIPE INV: 6.17, E, 18" PIPE</p> <p>STR. NO. 285 NOT AVAILABLE STR. NO. NOT USED</p> <p>STR. NO. 286 STA. 102+42.59 (16.0' Rt.) CONST. \bar{C} QUINN ST. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 8.79 INV: 5.17, W, 18" PIPE INV: 5.17, N, 18" PIPE</p> <p>STR. NO. 287 STA. 103+06.90 (16.5' Rt.) CONST. \bar{C} QUINN ST. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 8.73 INV: 5.10, S, 18" PIPE INV: 5.10, N, 18" PIPE</p>	<p>STR. NO. 288 STA. 104+13.42 (18.6' Rt.) CONST. \bar{C} QUINN ST. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 8.62 INV: 5.00, S, 18" PIPE INV: 4.98, W, 18" PIPE</p> <p>STR. NO. 289 STA. 104+14.29 (20.6' Lt.) CONST. \bar{C} QUINN ST. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 7.72 INV: 6.01, E, 12"x18" PIPE</p> <p>STR. NO. 290 STA. 104+13.57 (8.9' Rt.) CONST. \bar{C} QUINN ST. CONST. Index No. 425-001 - Type 7 Manhole (1 or 2-Piece Cover (Center), Round Bottom) TOR: 8.94 INV: 5.98, W, 12"x18" PIPE INV: 4.99, E, 18" PIPE INV: 4.98, N, 18" PIPE</p> <p>STR. NO. 291 STA. 105+10.68 (8.2' Rt.) CONST. \bar{C} QUINN ST. CONST. Index No. 425-001 - Type 7 Manhole (1 or 2-Piece Cover (Center), Round Bottom) TOR: 8.64 INV: 4.88, S, 18" PIPE INV: 4.88, W, 18" PIPE INV: 4.89, N, 18" PIPE</p>	<p>STR. NO. 292 STA. 105+72.70 (18.8' Rt.) CONST. \bar{C} QUINN ST. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type C TOR: 8.08 INV: 4.84, NW, 15" PIPE</p> <p>STR. NO. 293 STA. 105+77.85 (8.9' Rt.) CONST. \bar{C} QUINN ST. CONST. Index No. 425-010 - Type J7 Manhole (Center Cover, Rectangular Bottom) TOR: 8.53 INV: 4.82, S, 18" PIPE INV: 4.83, W, 12"x18" PIPE INV: 4.83, SE, 15" PIPE INV: 4.82, N, 19"x30" PIPE</p> <p>STR. NO. 294 STA. 105+40.86 (22.2' Lt.) CONST. \bar{C} QUINN ST. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 8.19 INV: 4.89, N, 12"x18" PIPE</p> <p>STR. NO. 295 STA. 106+54.91 (19.8' Lt.) CONST. \bar{C} QUINN ST. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type C TOR: 8.24 INV: 4.94, S, 15" PIPE</p>	<p>STR. NO. 296 STA. 105+75.38 (21.0' Lt.) CONST. \bar{C} QUINN ST. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 8.24 INV: 4.86, N, 15" PIPE INV: 4.86, S, 12"x18" PIPE INV: 4.86, E, 12"x18" PIPE</p> <p>STR. NO. 297 STA. 108+02.89 (9.6' Rt.) CONST. \bar{C} QUINN ST. CONST. Index No. 425-010 - Type J7 Manhole (Center Cover, Rectangular Bottom) TOR: 8.60 INV: 4.59, S, 19"x30" PIPE INV: 4.59, E, 15" PIPE INV: 4.59, W, 24" PIPE</p> <p>STR. NO. 298 STA. 108+86.47 (12.8' Rt.) CONST. \bar{C} QUINN ST. CONST. Index No. 425-050 - Ditch Bottom Inlet - Type A TOR: 8.61 INV: 4.69, S, 15" PIPE</p> <p>STR. NO. 299 STA. 108+47.45 (14.4' Rt.) CONST. \bar{C} QUINN ST. CONST. Index No. 425-050 - Ditch Bottom Inlet - Type A TOR: 8.77 INV: 4.65, N, 15" PIPE INV: 4.65, S, 15" PIPE</p>
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<p>STR. NO. 300 STA. 108+03.20 (17.7' Rt.) CONST. ζ QUINN ST. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 8.57 INV: 4.60, N, 15" PIPE INV: 4.61, W, 15" PIPE</p> <p>STR. NO. 301 STA. 108+09.33 (9.7' Lt.) CONST. ζ QUINN ST. CONST. Index No. 425-010 - Type J7 Manhole (Center Cover, Rectangular Bottom) TOR: 8.78 INV: 4.58, E, 24" PIPE INV: 5.08, W, 18" PIPE INV: 4.58, N, 24" PIPE</p> <p>STR. NO. 302 STA. 109+56.89 (13.1' Rt.) CONST. ζ QUINN ST. CONST. Index No. 425-050 - Ditch Bottom Inlet - Type A TOR: 8.93 INV: 4.46, N, 15" PIPE</p> <p>STR. NO. 303 STA. 110+39.33 (12.5' Rt.) CONST. ζ QUINN ST. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 9.45 INV: 4.37, S, 15" PIPE INV: 4.37, W, 15" PIPE</p>	<p>STR. NO. 304 STA. 110+39.17 (11.6' Lt.) CONST. ζ QUINN ST. CONST. Index No. 425-010 - Type J7 Manhole (Center Cover, Rectangular Bottom) TOR: 9.32 INV: 4.35, S, 24" PIPE INV: 5.85, W, 18" PIPE INV: 4.35, E, 15" PIPE INV: 4.35, N, 36" PIPE</p> <p>STR. NO. 305 STA. 111+19.54 (11.3' Rt.) CONST. ζ QUINN ST. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 9.23 INV: 6.50, N, 12"x18" PIPE</p> <p>STR. NO. 306 STA. 111+93.21 (10.9' Rt.) CONST. ζ QUINN ST. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 8.78 INV: 6.43, S, 12"x18" PIPE INV: 6.43, W, 12"x18" PIPE</p> <p>STR. NO. 307 STA. 111+93.79 (8.2' Lt.) CONST. ζ QUINN ST. CONST. Index No. 425-010 - Type J7 Manhole (Center Cover, Rectangular Bottom) TOR: 9.38 INV: 6.41, E, 12"x18" PIPE INV: 4.19, S, 36" PIPE INV: 4.19, N, 36" PIPE</p>	<p>STR. NO. 308 STA. 112+75.99 (13.4' Rt.) CONST. ζ QUINN ST. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type C TOR: 9.34 INV: 6.50, W, 15" PIPE</p> <p>STR. NO. 309 STA. 112+82.08 (8.8' Lt.) CONST. ζ QUINN ST. CONST. Index No. 425-010 - Type J7 Manhole (Center Cover, Rectangular Bottom) TOR: 9.35 INV: 4.11, S, 36" PIPE INV: 6.48, E, 15" PIPE INV: 4.11, N, 36" PIPE</p> <p>STR. NO. 310 STA. 134+97.76 (6.4' Rt.) CONST. ζ DEAN ST. CONST. Index No. 425-001 - Type 7 Manhole (1 or 2-Piece Cover (Center), Rectangular Bottom) TOR: 10.06 INV: 4.08, S, 36" PIPE INV: 4.08, N, 36" PIPE</p> <p>UTILITY CONFLICT STRUCTURE SEE FDOT INDEX 425-080</p> <p>STR. NO. 311 STA. 134+97.30 (7.7' Lt.) CONST. ζ DEAN ST. CONST. Index No. 425-010 - Type J7 Manhole (Center Cover, Rectangular Bottom) TOR: 10.04 INV: 4.08, S, 36" PIPE INV: 6.08, W, 18" PIPE INV: 4.08, E, 42" PIPE</p>	<p>STR. NO. 312 STA. 136+25.76 (3.9' Lt.) CONST. ζ DEAN ST. CONST. Index No. 425-010 - Type J7 Manhole (Center Cover, Rectangular Bottom) TOR: 9.46 INV: 3.95, W, 42" PIPE INV: 3.95, SE, 42" PIPE</p> <p>STR. NO. 313 CONST. Index No. 425-052 - Ditch Bottom Inlet - Type E TOR: 7.65 INV: 3.70, N, 36" PIPE</p> <p>DETENTION BASIN A OUTLET STRUCTURE</p> <p>STR. NO. 314 CONST. Index No. 425-010 - Type J7 Manhole (Center Cover, Rectangular Bottom) TOR: 8.72 INV: 3.56, NW, 60" PIPE INV: 3.56, E, 60" PIPE</p> <p>SEE DETENTION BASIN GRADING PLANS</p> <p>STR. NO. 315 CONST. Index No. 425-052 - Ditch Bottom Inlet - Type E TOR: 7.39 INV: 3.00, N, 36" PIPE</p> <p>DETENTION BASIN B OUTLET STRUCTURE</p>	<p>STR. NO. 316 STA. 221+37.43 (18.3' Rt.) CONST. ζ DOWNS DR. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 9.30 INV: 5.38, W, 15" PIPE</p> <p>STR. NO. 317 STA. 221+38.20 (8.9' Lt.) CONST. ζ DOWNS DR. CONST. Index No. 425-052 - Ditch Bottom Inlet - Type D TOR: 9.43 INV: 5.36, E, 15" PIPE</p> <p>STR. NO. 318 STA. 221+38.18 (6.6' Rt.) CONST. ζ DOWNS DR. CONST. Index No. 425-010 - Type P7 Manhole (Center Cover, Round Bottom) TOR: 9.49 INV: 5.36, E, 15" PIPE INV: 5.38, W, 15" PIPE INV: 5.36, N, 15" PIPE</p> <p>STR. NO. 319 STA. 222+83.38 (17.3' Rt.) CONST. ζ DOWNS DR. CONST. Index No. 425-050 - Ditch Bottom Inlet - Type A TOR: 9.19 INV: 5.23, W, 15" PIPE</p>
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STR. NO. 320

STA. 222+86.55 (10.1' Lt.)
CONST. ζ DOWNS DR.
CONST. Index No. 425-052 -
Ditch Bottom Inlet - Type D
TOR: 9.05
INV: 5.22, E, 15" PIPE

STR. NO. 321

STA. 222+85.95 (6.1' Rt.)
CONST. ζ DOWNS DR.
CONST. Index No. 425-010 -
Type P7 Manhole (Center Cover,
Round Bottom)
TOR: 9.40
INV: 5.22, E, 15" PIPE
INV: 5.22, S, 15" PIPE
INV: 5.23, W, 15" PIPE
INV: 4.47, N, 24" PIPE

STR. NO. 322

STA. 224+69.39 (15.8' Rt.)
CONST. ζ DOWNS DR.
CONST. Index No. 425-052 -
Ditch Bottom Inlet - Type D
TOR: 9.31
INV: 5.04, W, 15" PIPE

STR. NO. 323

STA. 224+75.18 (14.5' Lt.)
CONST. ζ DOWNS DR.
CONST. Index No. 425-052 -
Ditch Bottom Inlet - Type C
TOR: 9.31
INV: 5.05, E, 15" PIPE

STR. NO. 324

STA. 224+71.56 (7.0' Rt.)
CONST. ζ DOWNS DR.
CONST. Index No. 425-010 -
Type J7 Manhole (Center Cover,
Rectangular Bottom)
TOR: 9.47
INV: 4.28, S, 24" PIPE
INV: 5.03, W, 15" PIPE
INV: 5.03, E, 15" PIPE
INV: 4.28, N, 24" PIPE

STR. NO. 325

STA. 226+56.32 (16.2' Rt.)
CONST. ζ DOWNS DR.
CONST. Index No. 425-052 -
Ditch Bottom Inlet - Type C
TOR: 8.75
INV: 4.85, W, 15" PIPE

STR. NO. 326

STA. 226+55.84 (6.6' Rt.)
CONST. ζ DOWNS DR.
CONST. Index No. 425-010 -
Type J7 Manhole (Center Cover,
Rectangular Bottom)
TOR: 8.65
INV: 4.08, S, 24" PIPE
INV: 4.84, E, 15" PIPE
INV: 4.08, W, 24" PIPE

STR. NO. 327

STA. 226+55.53 (10.3' Lt.)
CONST. ζ DOWNS DR.
CONST. Index No. 425-001 -
Type 7 Manhole (1 or 2-Piece
Cover (Center), Rectangular
Bottom)
TOR: 8.60
INV: 4.07, E, 24" PIPE
INV: 4.07, NW, 24" PIPE

STR. NO. 400

STA. 78+06.60 (20.4' Lt.)
CONST. ζ IMPERIAL PKWY.
CONST. Index No. 425-001 -
Type 7 Manhole (1 or 2-Piece
Cover (Center), Rectangular
Bottom)
TOR: 11.58
INV: 6.02, S, 36" PIPE
INV: 6.18, W, 24" PIPE
INV: 6.02, N, 48" PIPE

STR. NO. 401

STA. 141+14.20 (15.9' Rt.)
CONST. ζ McKENNA AVE.
CONST. Index No. 425-001 -
Type 7 Manhole (1 or 2-Piece
Cover (Center), Rectangular
Bottom)
TOR: 11.03
INV: 6.10, E, 18" PIPE
INV: 6.10, W, 30" PIPE

STR. NO. 402

STA. 80+35.81 (19.3' Lt.)
CONST. ζ IMPERIAL PKWY.
CONST. Index No. 425-001 -
Type 7 Manhole (1 or 2-Piece
Cover (Center), Rectangular
Bottom)
TOR: 11.98
INV: 5.97, E, 30" PIPE
INV: 5.97, S, 48" PIPE
INV: 5.97, W, 48" PIPE

STR. NO. 403

STA. 82+43.64 (49.2' Lt.)
CONST. ζ IMPERIAL PKWY.
CONST. Index No. 425-053 -
Ditch Bottom Inlet - Type G
TOR: 11.28
INV: 5.52, E, 48" PIPE

DETENTION BASIN C
OUTLET STRUCTURE

STR. NO. 404

STA. 82+43.67 (19.6' Lt.)
CONST. ζ IMPERIAL PKWY.
CONST. Index No. 425-001 -
Type 7 Manhole (1 or 2-Piece
Cover (Center), Rectangular
Bottom)
TOR: 11.58
INV: 5.49, W, 48" PIPE
INV: 4.66, N, 48" PIPE

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			SHEET NO. 50
DATE	DESCRIPTION	DATE	ROAD NO.		COUNTY	FINANCIAL PROJECT ID		
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<p>PIPE NO. 102a</p> <p>CONST. ζ ORANGE BLOSSOM DR. STA. 37+98.60 (23.9' Lt.) (START) STA. 37+99.72 (7.6' Rt.) (END) INV: 6.90 (START) INV: 6.77 (END)</p> <p>32 LF Of 15" PIPE @ 0.40%</p>	<p>PIPE NO. 114a</p> <p>CONST. ζ TANGERINE DR. STA. 52+29.16 (23.9' Rt.) (START) STA. 50+96.16 (21.7' Rt.) (END) INV: 6.75 (START) INV: 6.62 (END)</p> <p>134 LF Of 18"x12" PIPE @ 0.10%</p>	<p>PIPE NO. 121</p> <p>CONST. ζ TANGERINE DR. STA. 60+22.90 (23.0' Lt.) (START) STA. 59+90.51 (22.7' Lt.) (END) INV: 8.37 (START) INV: 8.34 (END)</p> <p>33 LF Of 18"x12" PIPE @ 0.10%</p>	<p>PIPE NO. 125</p> <p>CONST. ζ TANGERINE DR. STA. 58+70.53 (22.0' Lt.) (START) STA. 58+50.33 (21.9' Lt.) (END) INV: 8.10 (START) INV: 8.08 (END)</p> <p>21 LF Of 18"x12" PIPE @ 0.10%</p>	<p>PIPE NO. 130</p> <p>CONST. ζ TANGERINE DR. STA. 54+94.15 (22.5' Lt.) (START) STA. 54+22.04 (22.3' Lt.) (END) INV: 8.63 (START) INV: 8.55 (END)</p> <p>73 LF Of 18"x12" PIPE @ 0.11%</p>
<p>PIPE NO. 104a</p> <p>CONST. ζ ORANGE BLOSSOM DR. STA. 35+01.76 (19.3' Rt.) (START) STA. 35+03.37 (7.6' Rt.) (END) INV: 6.01 (START) INV: 6.00 (END)</p> <p>12 LF Of 15" PIPE @ 0.12%</p>	<p>PIPE NO. 115</p> <p>CONST. ζ TANGERINE DR. STA. 50+43.13 (22.9' Lt.) (START) STA. 50+12.91 (22.4' Rt.) (END) INV: 6.58 (START) INV: 6.53 (END)</p> <p>55 LF Of 15" PIPE @ 0.10%</p>	<p>PIPE NO. 122</p> <p>CONST. ζ TANGERINE DR. STA. 59+81.89 (22.7' Lt.) (START) STA. 59+58.74 (22.6' Lt.) (END) INV: 8.31 (START) INV: 8.29 (END)</p> <p>24 LF Of 18"x12" PIPE @ 0.10%</p>	<p>PIPE NO. 126</p> <p>CONST. ζ TANGERINE DR. STA. 58+29.71 (21.1' Lt.) (START) STA. 58+09.67 (20.6' Lt.) (END) INV: 8.02 (START) INV: 8.00 (END)</p> <p>21 LF Of 18"x12" PIPE @ 0.10%</p>	<p>PIPE NO. 131</p> <p>CONST. ζ TANGERINE DR. STA. 52+66.13 (22.5' Lt.) (START) STA. 52+34.54 (23.1' Lt.) (END) INV: 8.16 (START) INV: 7.97 (END)</p> <p>32 LF Of 15" PIPE @ 0.60%</p>
<p>PIPE NO. 106a</p> <p>CONST. ζ ORANGE BLOSSOM DR. STA. 34+18.32 (21.9' Rt.) (START) STA. 34+18.38 (6.9' Rt.) (END) INV: 5.93 (START) INV: 5.91 (END)</p> <p>15 LF Of 18"x12" PIPE @ -0.11%</p>	<p>PIPE NO. 119</p> <p>CONST. ζ ORANGE BLOSSOM DR. STA. 35+22.64 (22.6' Lt.) (START) STA. 34+94.08 (22.1' Lt.) (END) INV: 7.35 (START) INV: 7.23 (END)</p> <p>29 LF Of 15" PIPE @ 0.42%</p>	<p>PIPE NO. 123</p> <p>CONST. ζ TANGERINE DR. STA. 59+47.43 (22.7' Lt.) (START) STA. 59+24.69 (22.4' Lt.) (END) INV: 8.25 (START) INV: 8.23 (END)</p> <p>23 LF Of 18"x12" PIPE @ 0.09%</p>	<p>PIPE NO. 127</p> <p>CONST. ζ TANGERINE DR. STA. 57+37.89 (21.6' Lt.) (START) STA. 57+60.76 (21.1' Lt.) (END) INV: 8.30 (START) INV: 8.20 (END)</p> <p>23 LF Of 18"x12" PIPE @ 0.44%</p>	<p>PIPE NO. 132</p> <p>CONST. ζ LIME ST. STA. 25+69.95 (22.2' Lt.) (START) STA. 25+43.17 (23.1' Lt.) (END) INV: 7.89 (START) INV: 7.32 (END)</p> <p>27 LF Of 15" PIPE @ 2.11%</p>
<p>PIPE NO. 113a</p> <p>CONST. ζ LIME ST. STA. 20+53.84 (26.7' Lt.) (START) STA. 20+17.70 (34.6' Lt.) (END) INV: 6.34 (START) INV: 6.32 (END)</p> <p>37 LF Of 24" PIPE @ 0.06%</p>	<p>PIPE NO. 120</p> <p>CONST. ζ TANGERINE DR. STA. 61+03.45 (17.2' Lt.) (START) STA. 60+69.55 (17.7' Lt.) (END) INV: 8.55 (START) INV: 8.52 (END)</p> <p>34 LF Of 18"x12" PIPE @ 0.09%</p>	<p>PIPE NO. 124</p> <p>CONST. ζ TANGERINE DR. STA. 59+05.06 (22.1' Lt.) (START) STA. 58+83.20 (22.2' Lt.) (END) INV: 8.16 (START) INV: 8.14 (END)</p> <p>22 LF Of 18"x12" PIPE @ 0.09%</p>	<p>PIPE NO. 128a</p> <p>CONST. ζ TANGERINE DR. STA. 58+02.53 (23.6' Rt.) (START) STA. 58+02.81 (125.2' Rt.) (END) INV: 7.43 (START) INV: 7.33 (END)</p> <p>102 LF Of 15" PIPE @ 0.10%</p>	<p>PIPE NO. 133</p> <p>CONST. ζ LIME ST. STA. 25+43.17 (23.1' Lt.) (START) STA. 24+93.85 (23.7' Lt.) (END) INV: 7.32 (START) INV: 7.28 (END)</p> <p>50 LF Of 15" PIPE @ 0.10%</p>

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			DRAINAGE PIPE DETAILS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		51
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PIPE NO. 134
 CONST. \bar{C} LIME ST.
 STA. 24+83.76 (23.3' Lt.) (START)
 STA. 24+52.60 (23.6' Lt.) (END)
 INV: 7.24 (START)
 INV: 7.21 (END)

32 LF Of 18"x12" PIPE @ 0.10%

PIPE NO. 135
 CONST. \bar{C} LIME ST.
 STA. 24+01.56 (24.2' Lt.) (START)
 STA. 23+80.32 (24.6' Lt.) (END)
 INV: 7.06 (START)
 INV: 7.02 (END)

22 LF Of 15" PIPE @ 0.19%

PIPE NO. 136
 CONST. \bar{C} LIME ST.
 STA. 23+17.88 (23.5' Lt.) (START)
 STA. 22+21.46 (23.6' Lt.) (END)
 INV: 6.83 (START)
 INV: 6.74 (END)

97 LF Of 15" PIPE @ 0.10%

PIPE NO. 137
 CONST. \bar{C} LIME ST.
 STA. 21+27.71 (22.7' Lt.) (START)
 STA. 20+78.85 (24.6' Lt.) (END)
 INV: 6.47 (START)
 INV: 6.42 (END)

49 LF Of 18"x12" PIPE @ 0.10%

PIPE NO. 401
 CONST. \bar{C} McKENNA AVE.
 STA. 141+11.79 (38.1' Rt.) (START)
 STA. 141+12.42 (18.0' Rt.) (END)
 INV: 6.12 (START)
 INV: 6.10 (END)

21 LF Of 30" PIPE @ 0.10%

PIPE NO. 401a
 CONST. \bar{C} McKENNA AVE.
 STA. 141+16.43 (42.3' Rt.) (START)
 STA. 141+16.96 (17.7' Rt.) (END)
 INV: 5.68 (START)
 INV: 5.66 (END)

25 LF Of 15" PIPE @ 0.10%

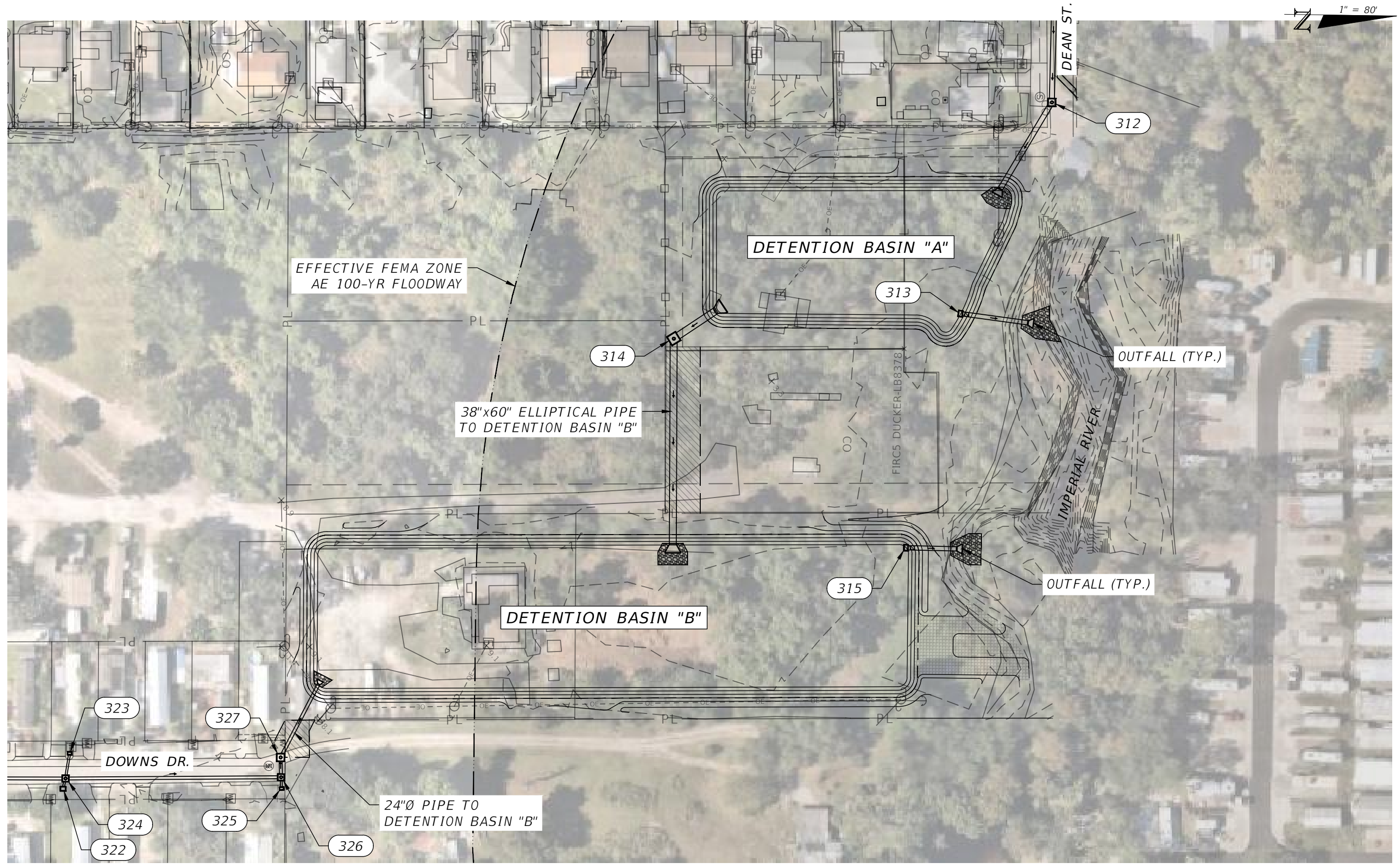
PIPE NO. 401b
 CONST. \bar{C} McKENNA AVE.
 STA. 141+17.05 (14.0' Rt.) (START)
 STA. 141+18.18 (41.2' Lt.) (END)
 INV: 5.66 (START)
 INV: 5.60 (END)

56 LF Of 15" PIPE @ 0.10%

PIPE NO. 405
 CONST. \bar{C} IMPERIAL PKWY.
 STA. 82+34.71 (46.0' Lt.) (START)
 STA. 82+34.06 (100.8' Rt.) (END)
 INV: 7.50 (START)
 INV: 7.35 (END)

147 LF Of 24" PIPE @ 0.10%

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			DRAINAGE PIPE DETAILS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		52
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1" = 80' Horizontal

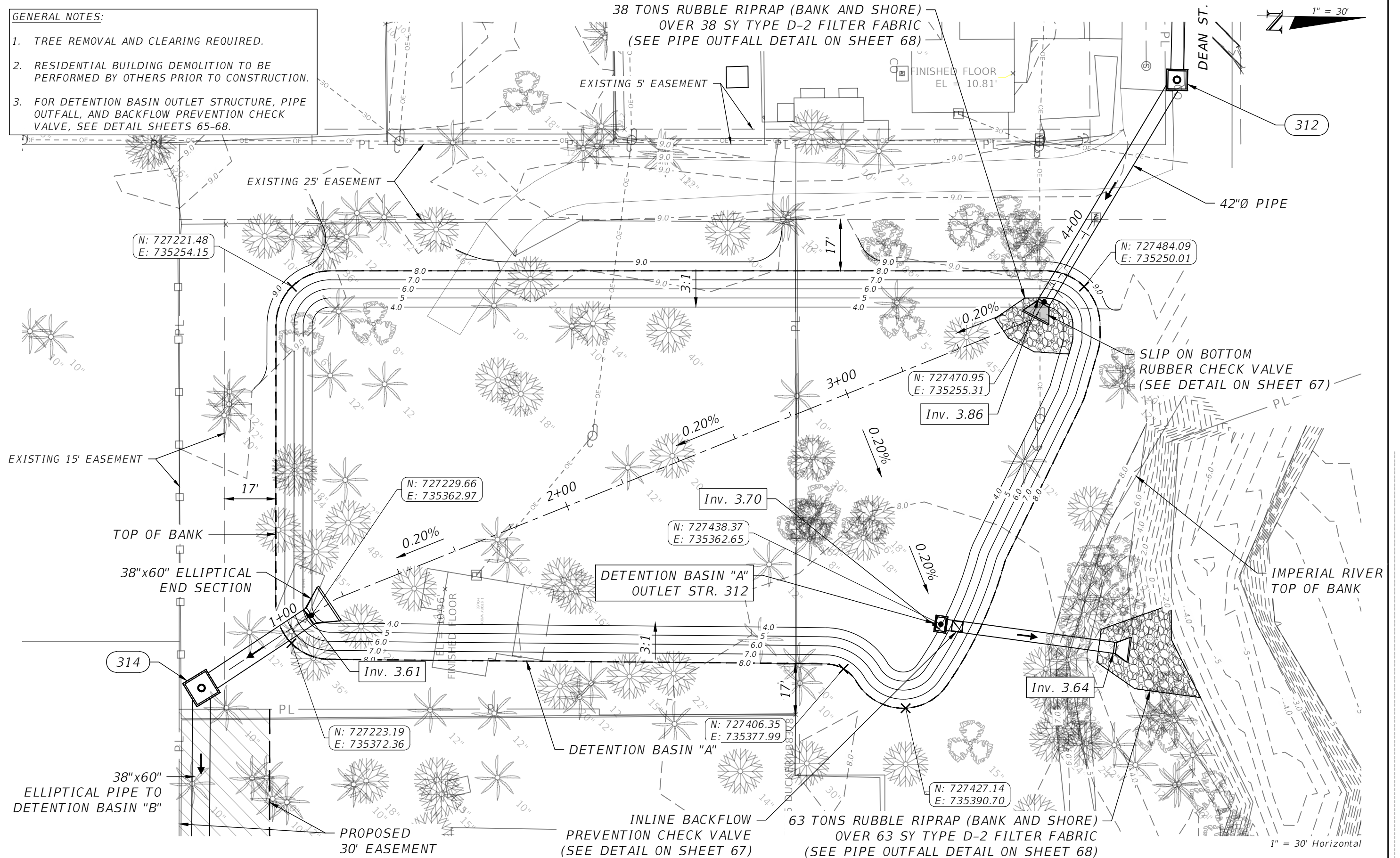
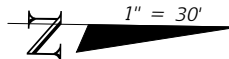
REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			SHEET NO. 53
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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**DETENTION BASINS "A" AND "B"
OVERALL PLAN**

GENERAL NOTES:

- TREE REMOVAL AND CLEARING REQUIRED.
- RESIDENTIAL BUILDING DEMOLITION TO BE PERFORMED BY OTHERS PRIOR TO CONSTRUCTION.
- FOR DETENTION BASIN OUTLET STRUCTURE, PIPE OUTFALL, AND BACKFLOW PREVENTION CHECK VALVE, SEE DETAIL SHEETS 65-68.

38 TONS RUBBLE RIPRAP (BANK AND SHORE)
OVER 38 SY TYPE D-2 FILTER FABRIC
(SEE PIPE OUTFALL DETAIL ON SHEET 68)



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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ENGINEER OF RECORD FULL NAME, P.E.
P.E. LICENSE NUMBER 00000
AMERICAN STRUCTUREPOINT INC.
5405 CYPRESS CENTER DR., SUITE 310
TAMPA, FL 33609
CERTIFICATE OF AUTHORIZATION 00000000

CITY OF BONITA SPRINGS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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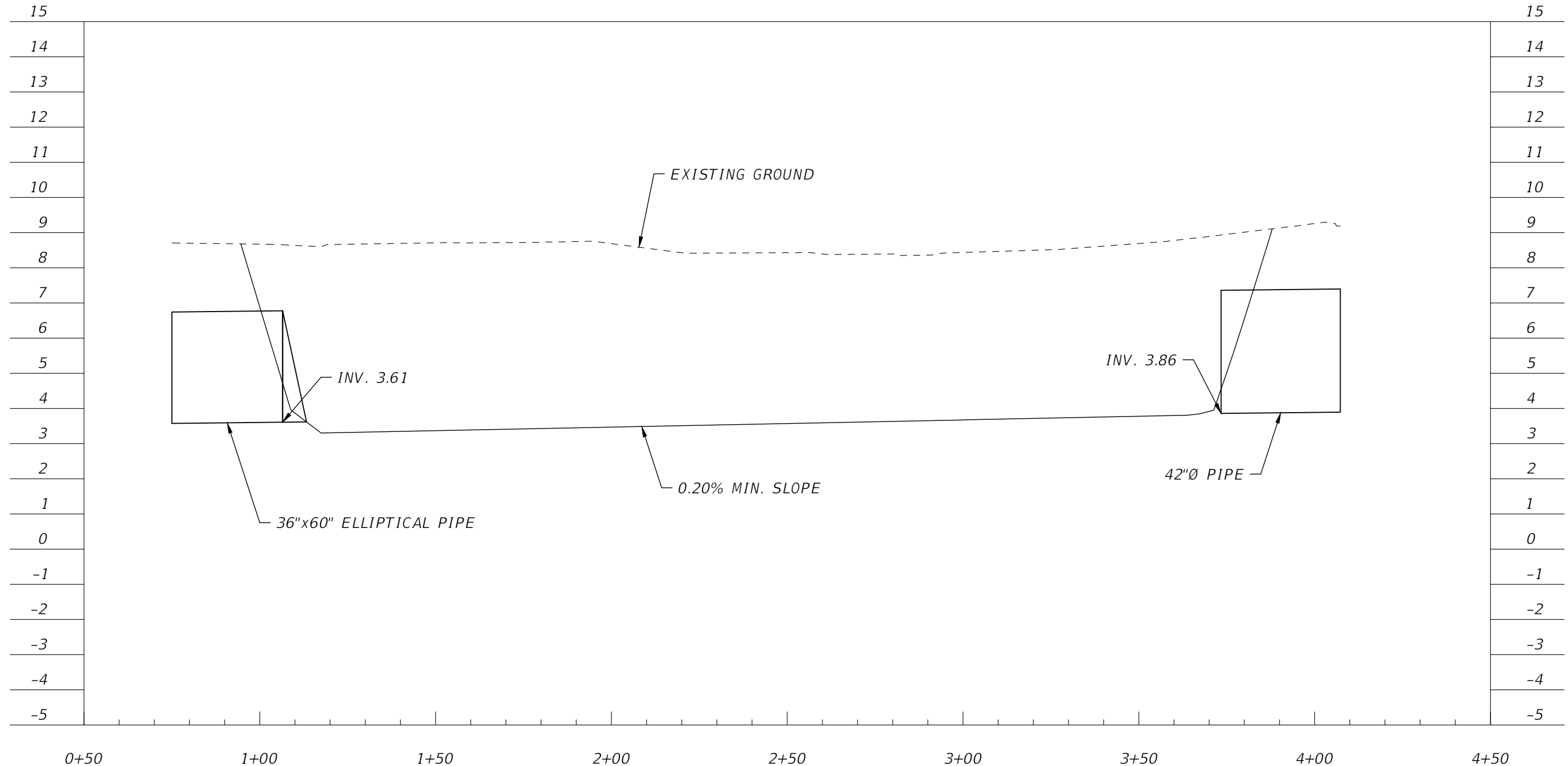
**DETENTION BASIN "A"
GRADING PLAN**

SHEET NO.
54

DETENTION BASIN "A":	
NORMAL WATER EL:	-----
2 YEAR WS EL:	-----
10 YEAR WS EL:	-----
50 YEAR WS EL:	-----
100 YEAR WS EL:	-----

DETENTION BASIN "A"

0+50.00 - 4+50.00



1" = 30' Horizontal
1" = 10' Vertical

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		55
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GENERAL NOTES:

1. TREE REMOVAL AND CLEARING REQUIRED.
2. RESIDENTIAL BUILDING DEMOLITION TO BE PERFORMED BY OTHERS PRIOR TO CONSTRUCTION.
3. FOR DETENTION BASIN OUTLET STRUCTURE, PIPE OUTFALL, AND BACKFLOW PREVENTION CHECK VALVE, SEE DETAIL SHEETS 65-68.

38"x60" ELLIPTICAL PIPE FROM DETENTION BASIN "A" 1" = 30'

45 TONS RUBBLE RIPRAP (BANK AND SHORE) OVER 45 SY TYPE D-2 FILTER FABRIC (SEE PIPE OUTFALL DETAIL ON SHEET 68)

PROPOSED 30' EASEMENT

EXISTING 25' EASEMENT

N: 726887.84
E: 735565.17

Inv. 3.38
N: 727195.43
E: 735562.61

38"x60" END SECTION

24" END SECTION
EFFECTIVE FEMA ZONE AE 100-YR FLOODWAY

N: 726894.30
E: 735687.75

Inv. 4.00

N: 726889.14
E: 735695.29

EL = 11.99' x
FINISHED FLOOR

PROPOSED EASEMENT

327

DOWN'S DR.

24"Ø PIPE TO DETENTION BASIN "B"

14 TONS RUBBLE RIPRAP (BANK AND SHORE) OVER 14 SY TYPE D-2 FILTER FABRIC (SEE PIPE OUTFALL DETAIL ON SHEET 68)

DETENTION BASIN "B"

5' WIDE BERM

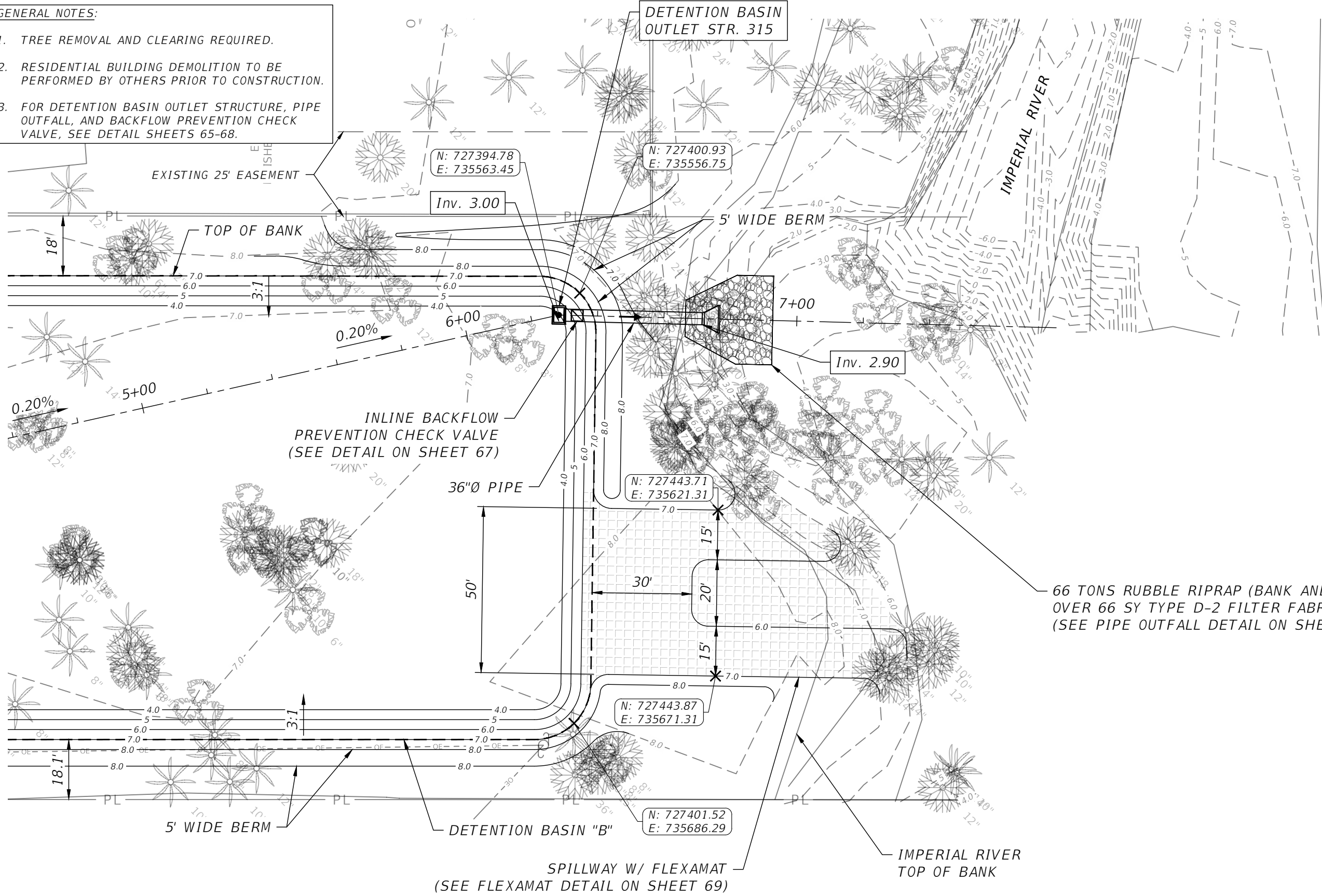
TOP OF BANK

1" = 30' Horizontal

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			SHEET NO. 56
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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GENERAL NOTES:

1. TREE REMOVAL AND CLEARING REQUIRED.
2. RESIDENTIAL BUILDING DEMOLITION TO BE PERFORMED BY OTHERS PRIOR TO CONSTRUCTION.
3. FOR DETENTION BASIN OUTLET STRUCTURE, PIPE OUTFALL, AND BACKFLOW PREVENTION CHECK VALVE, SEE DETAIL SHEETS 65-68.



66 TONS RUBBLE RIPRAP (BANK AND SHORE)
OVER 66 SY TYPE D-2 FILTER FABRIC
(SEE PIPE OUTFALL DETAIL ON SHEET 68)

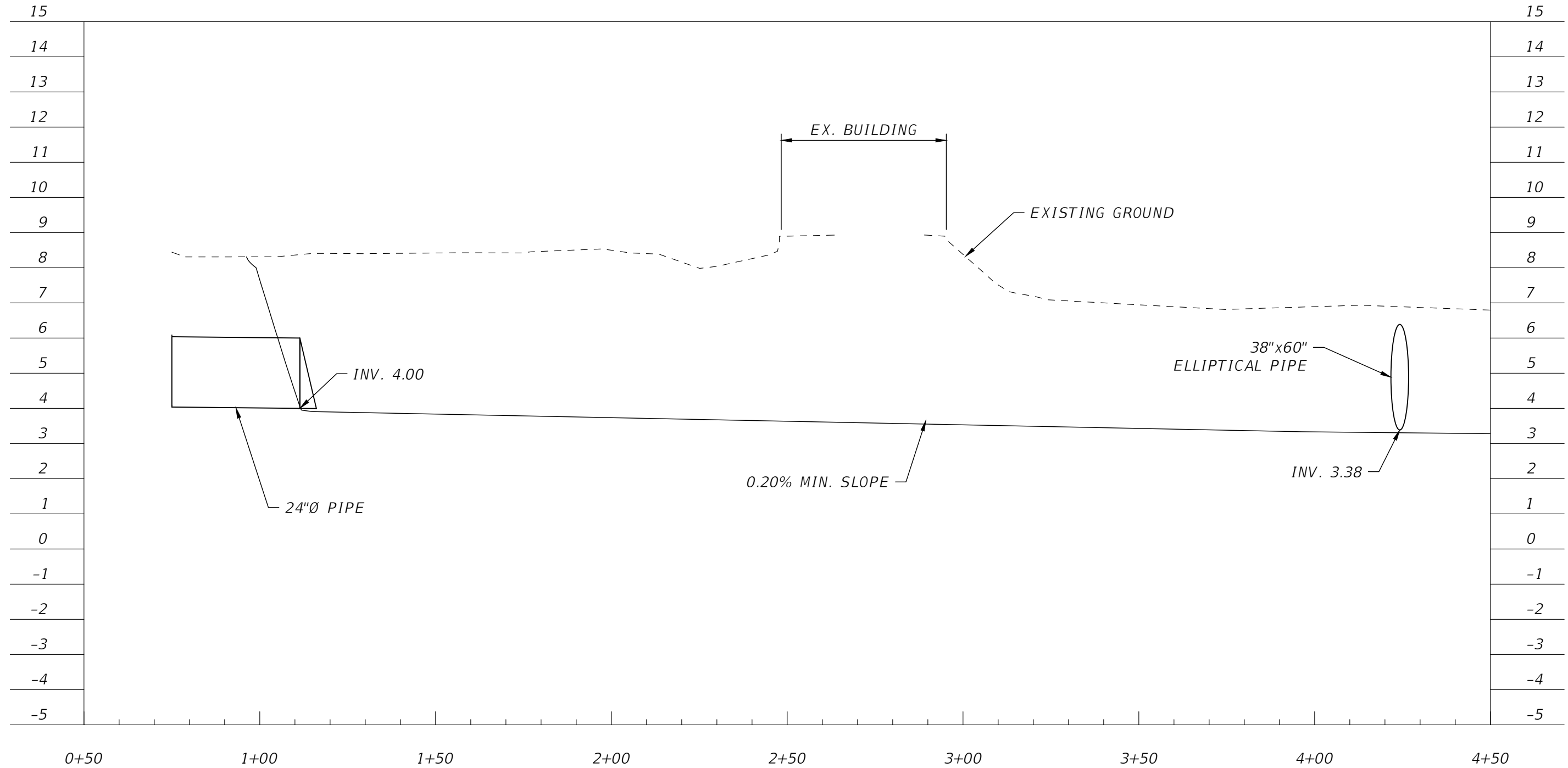
REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			SHEET NO. 57
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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DETENTION BASIN "B":
 NORMAL WATER EL: _____
 2 YEAR WS EL: _____
 10 YEAR WS EL: _____
 50 YEAR WS EL: _____
 100 YEAR WS EL: _____

NOTE:
 RESIDENTIAL BUILDING DEMOLITION TO BE
 PERFORMED BY OTHERS PRIOR TO CONSTRUCTION.

DETENTION BASIN "B"

0+50.00 - 4+50.00



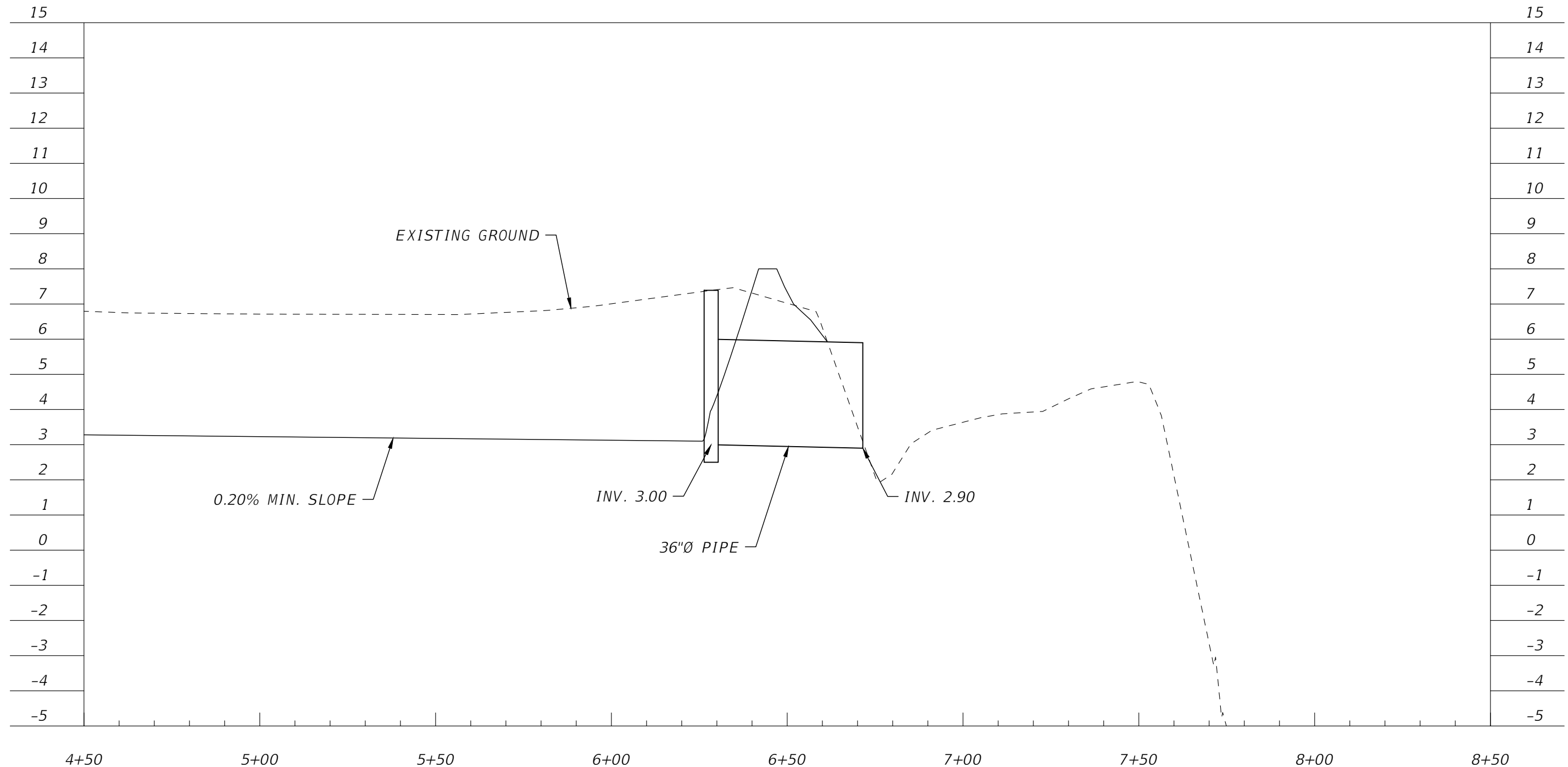
1" = 30' Horizontal
 1" = 10' Vertical

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			DETENTION BASIN "B" SECTION VIEW	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		58
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DETENTION BASIN "B":
 NORMAL WATER EL: _____
 2 YEAR WS EL: _____
 10 YEAR WS EL: _____
 50 YEAR WS EL: _____
 100 YEAR WS EL: _____

DETENTION BASIN "B"

4+50.00 - 8+50.00

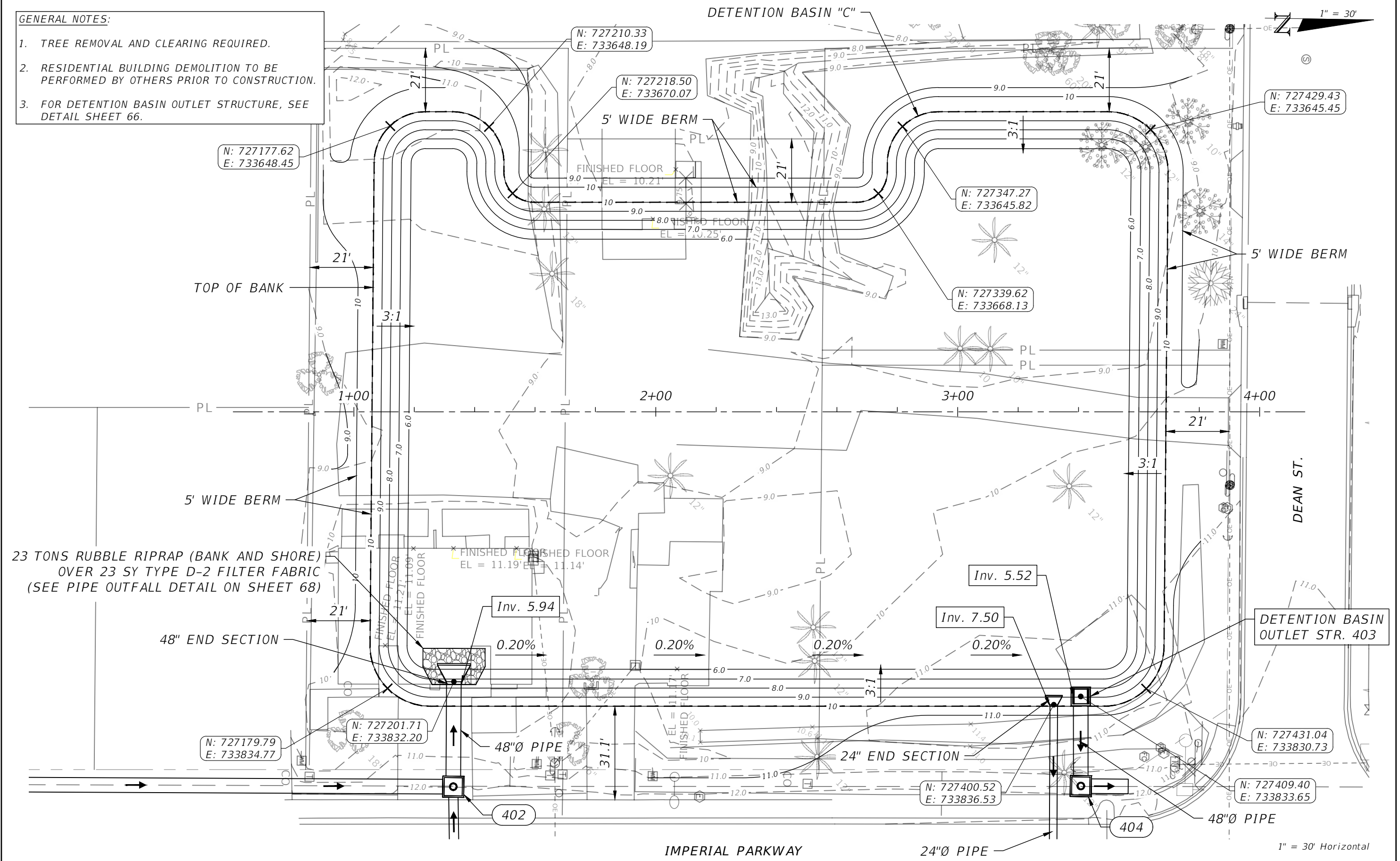


1" = 30' Horizontal
 1" = 10' Vertical

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			DETENTION BASIN "B" SECTION VIEW	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		59
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GENERAL NOTES:

1. TREE REMOVAL AND CLEARING REQUIRED.
2. RESIDENTIAL BUILDING DEMOLITION TO BE PERFORMED BY OTHERS PRIOR TO CONSTRUCTION.
3. FOR DETENTION BASIN OUTLET STRUCTURE, SEE DETAIL SHEET 66.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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ENGINEER OF RECORD FULL NAME, P.E.
 P.E. LICENSE NUMBER 00000
 AMERICAN STRUCTUREPOINT INC.
 5405 CYPRESS CENTER DR., SUITE 310
 TAMPA, FL 33609
 CERTIFICATE OF AUTHORIZATION 00000000

CITY OF BONITA SPRINGS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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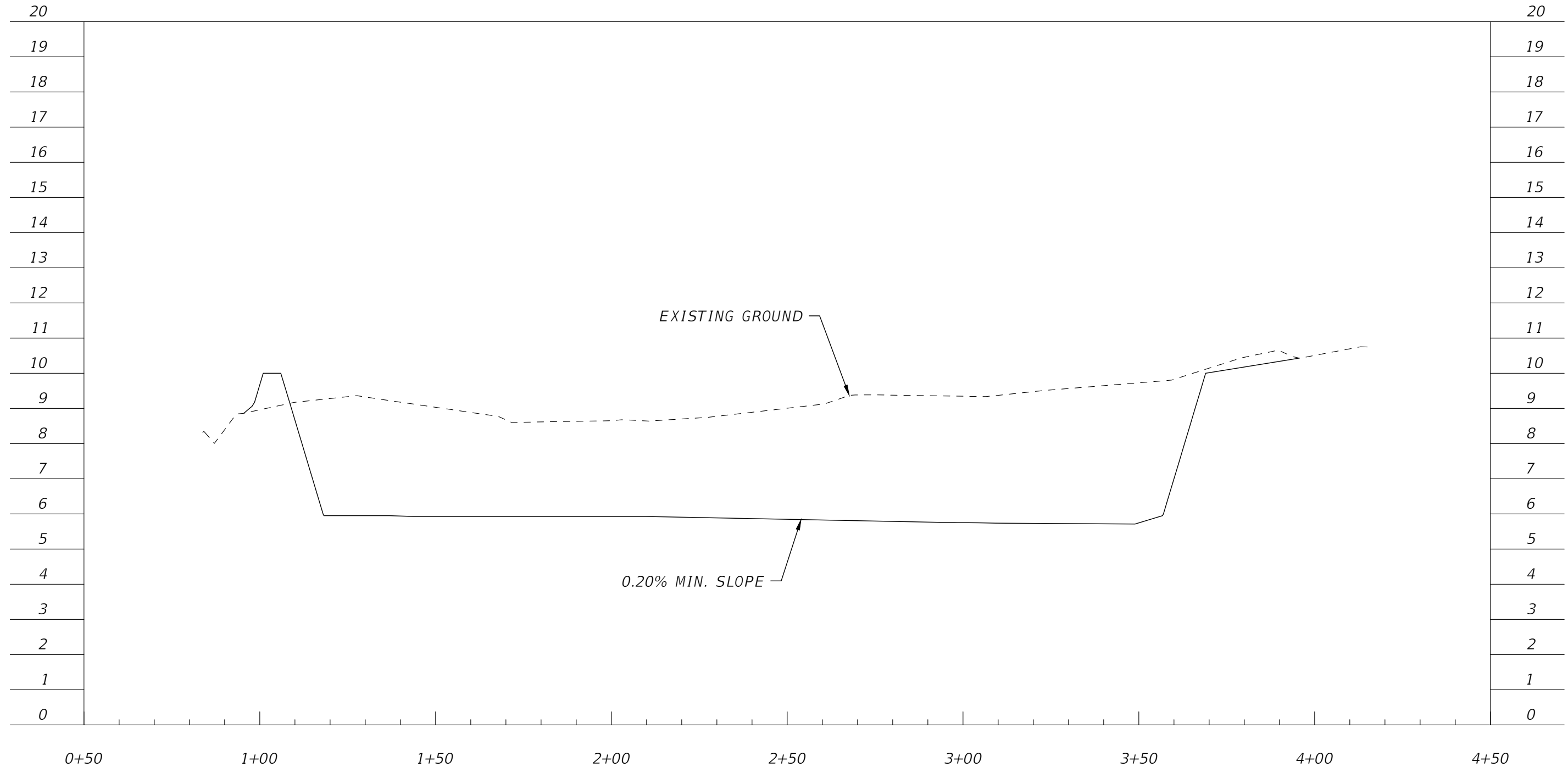
DETENTION BASIN "C"
GRADING PLAN

SHEET NO.
 60

DETENTION BASIN "C":
 NORMAL WATER EL: _____
 2 YEAR WS EL: _____
 10 YEAR WS EL: _____
 50 YEAR WS EL: _____
 100 YEAR WS EL: _____

DETENTION BASIN "C"

0+50.00 - 4+50.00

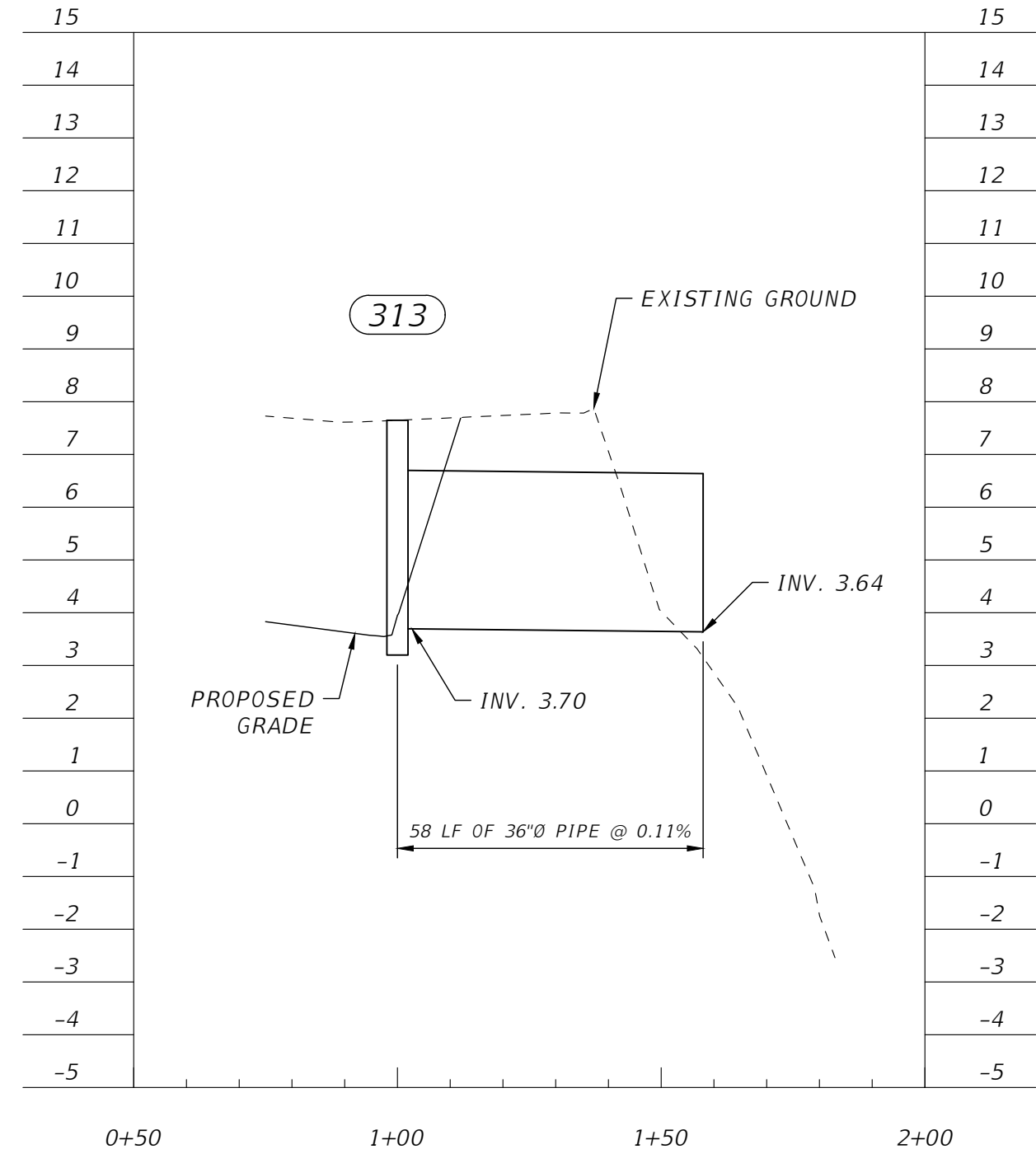
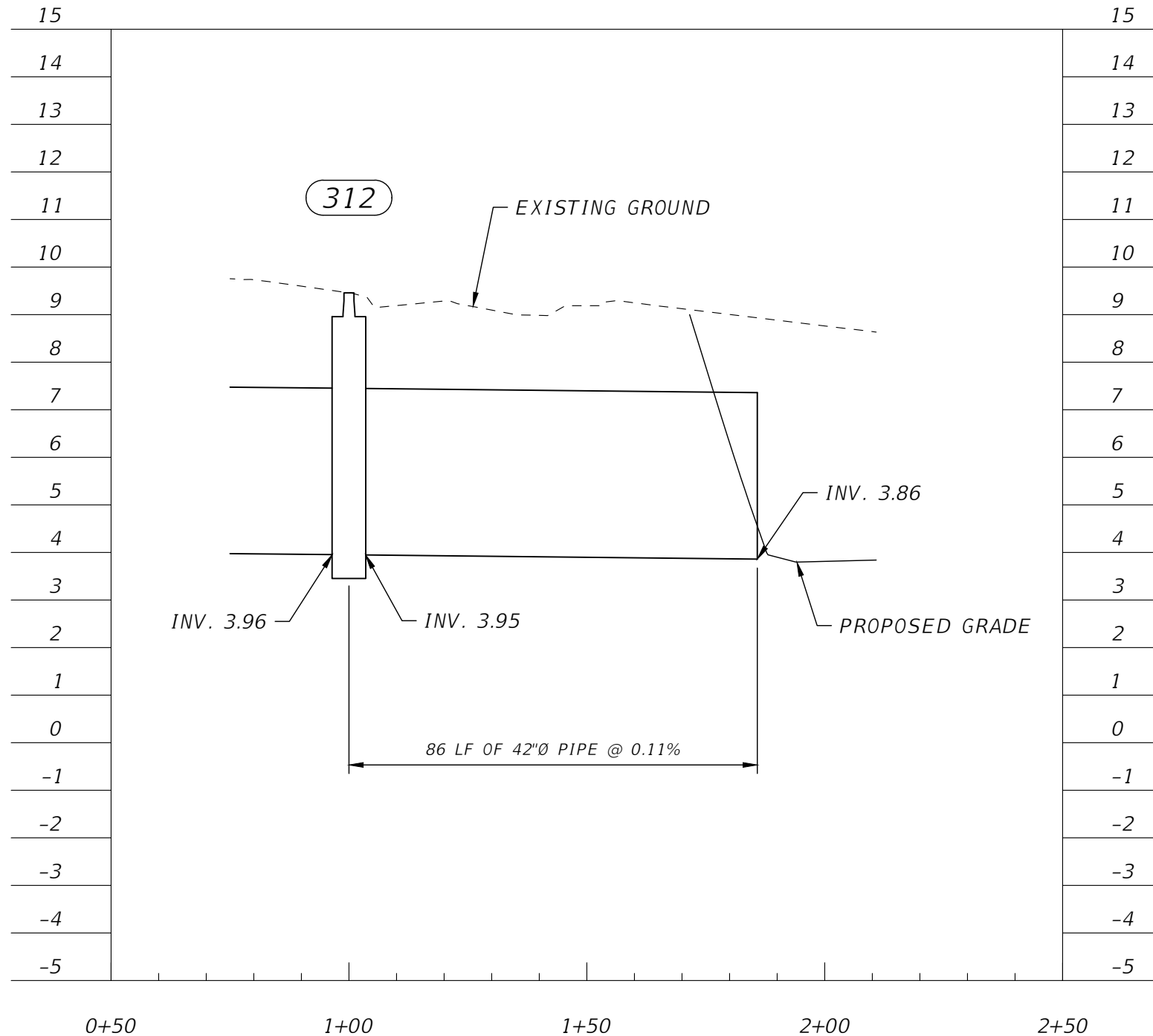


1" = 30' Horizontal
 1" = 10' Vertical

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		61
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DN-01 0+50.00 - 2+50.00

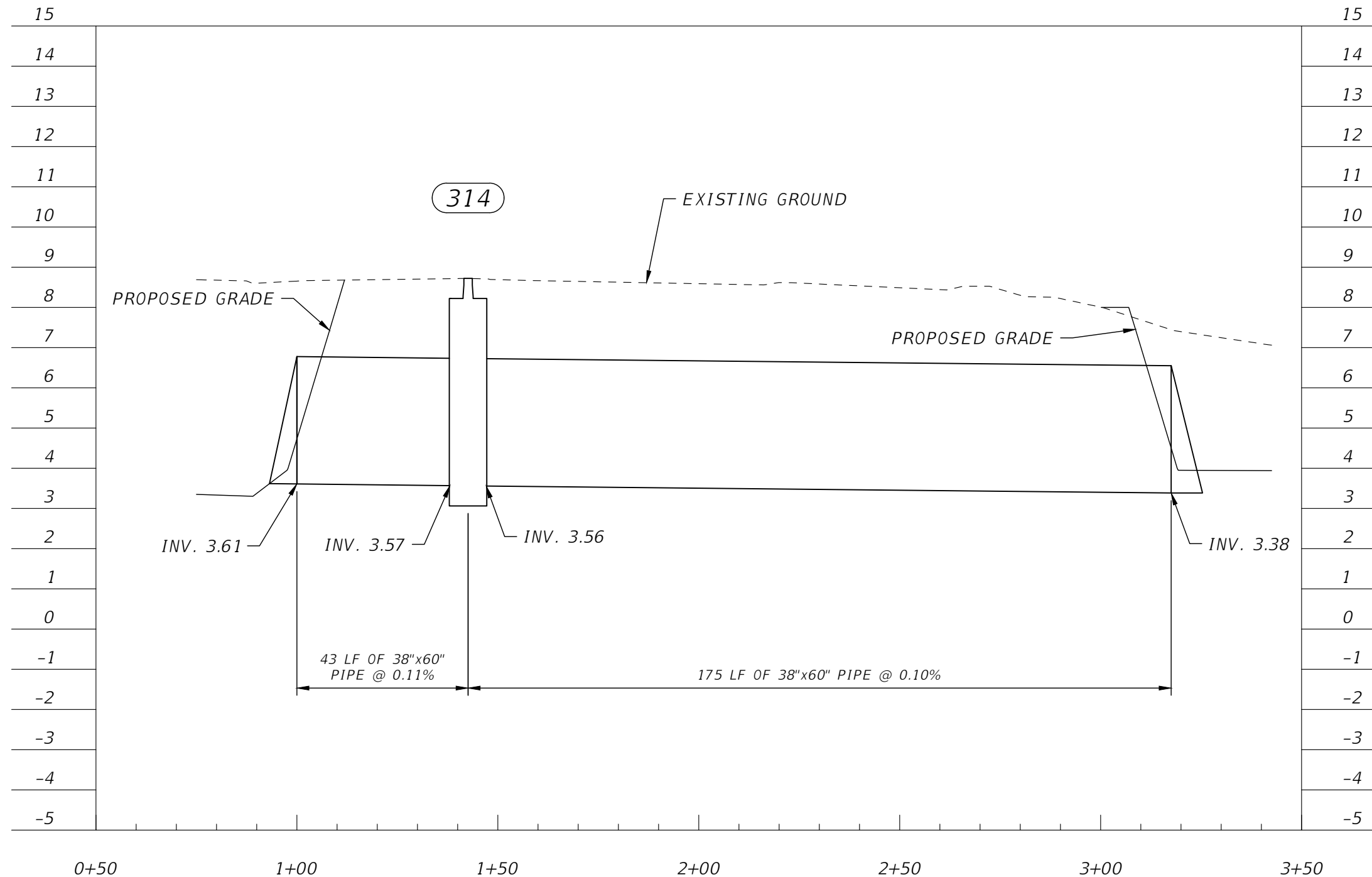
DN-02 0+50.00 - 2+00.00



1" = 30' Horizontal
1" = 10' Vertical

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			DETENTION BASIN SEWER PROFILES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		62
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DN-03 0+50.00 - 3+50.00

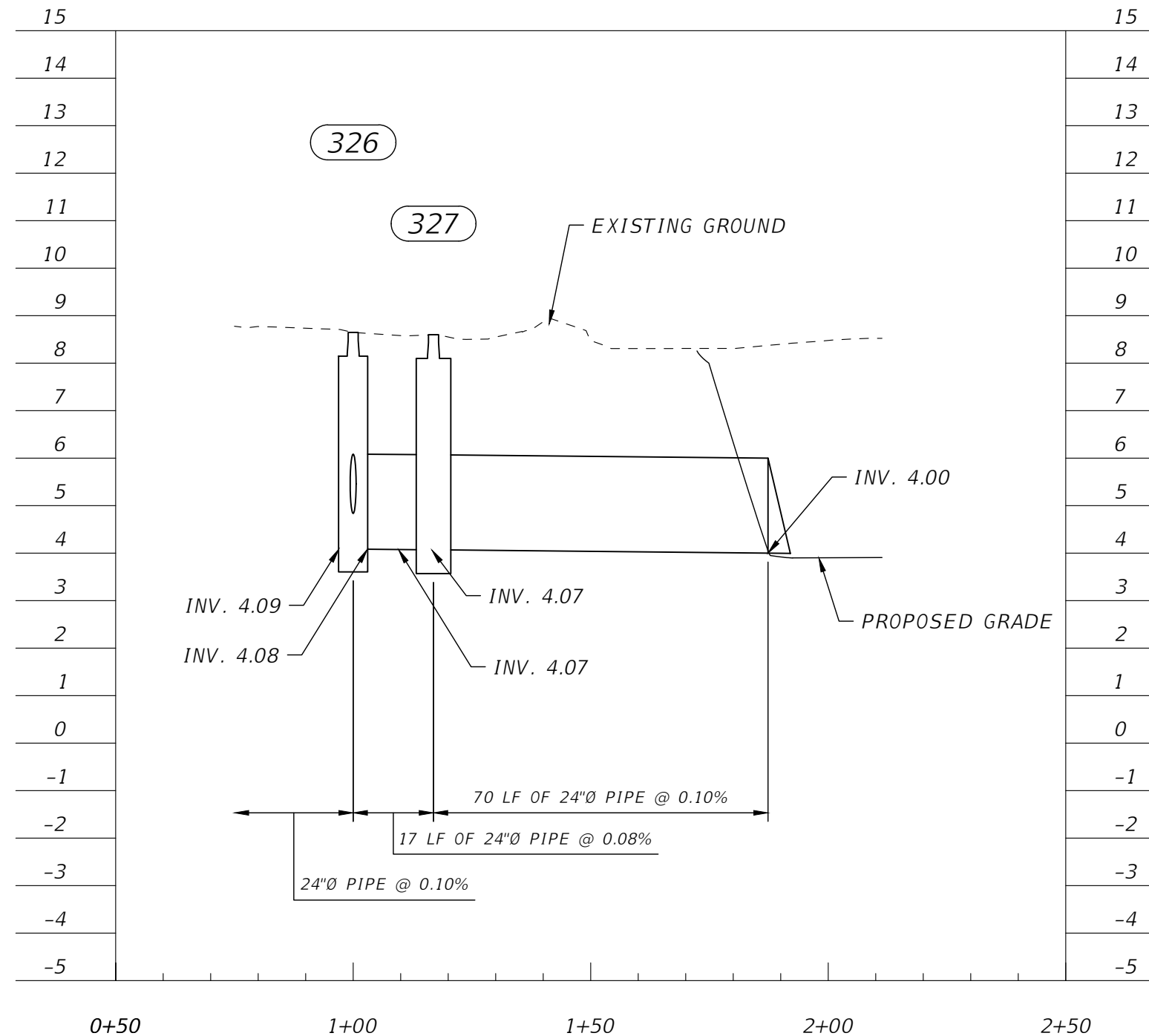


1" = 30' Horizontal
1" = 10' Vertical

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			DETENTION BASIN SEWER PROFILES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		63
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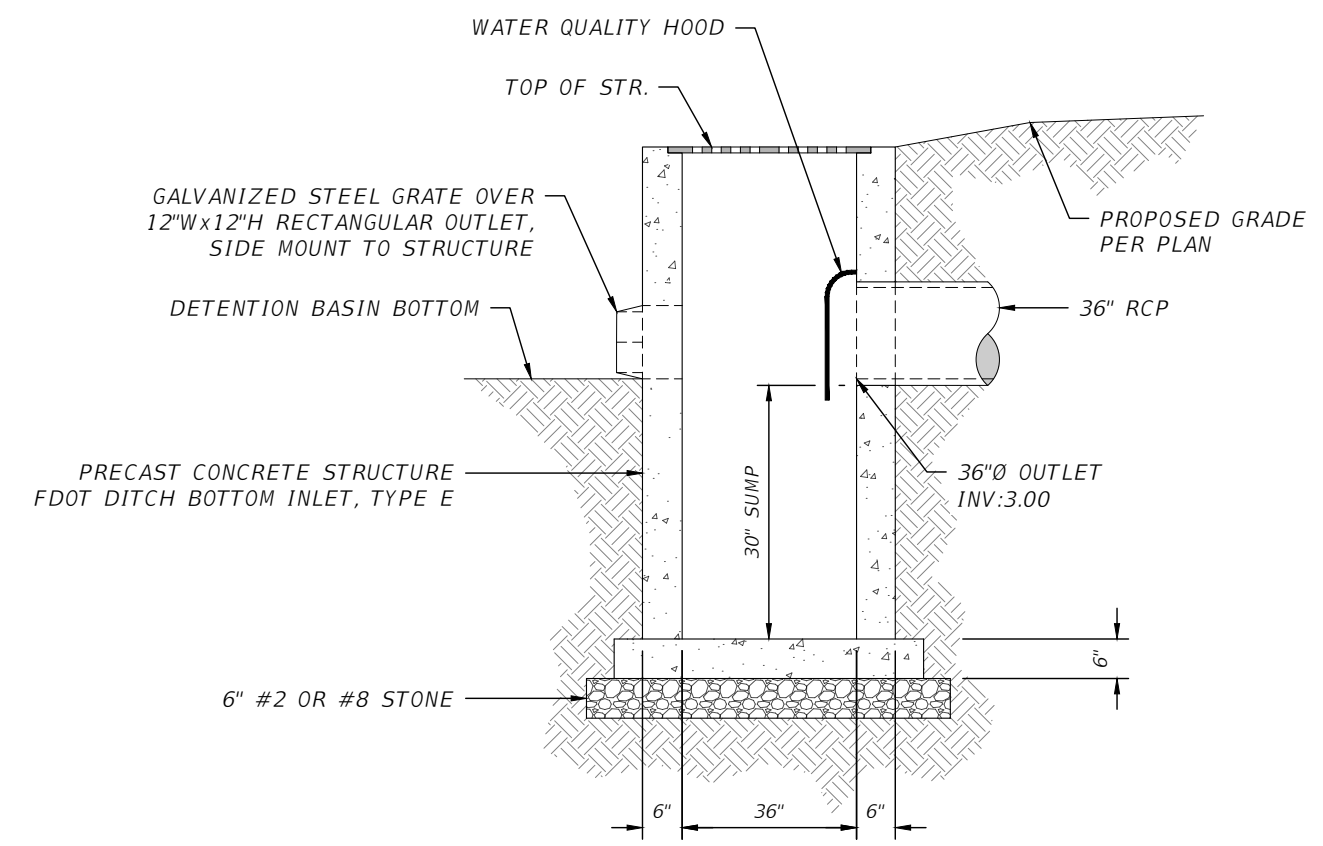
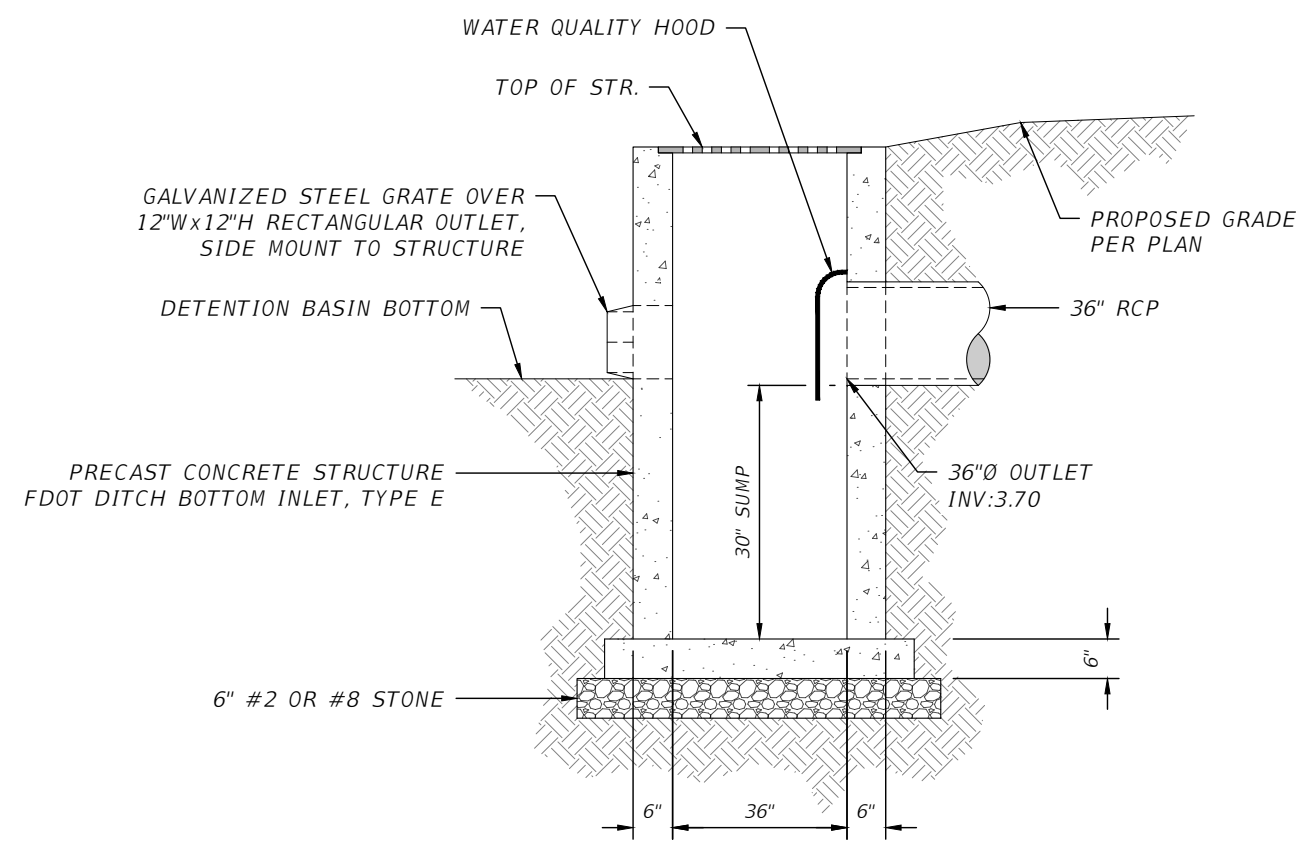
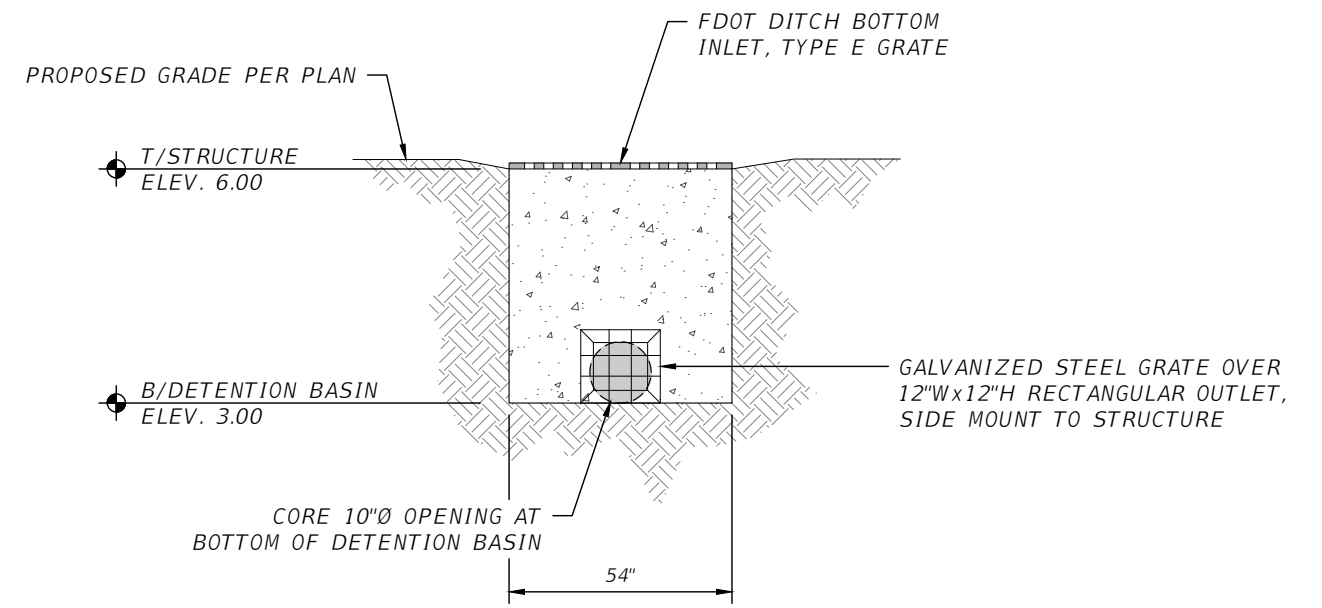
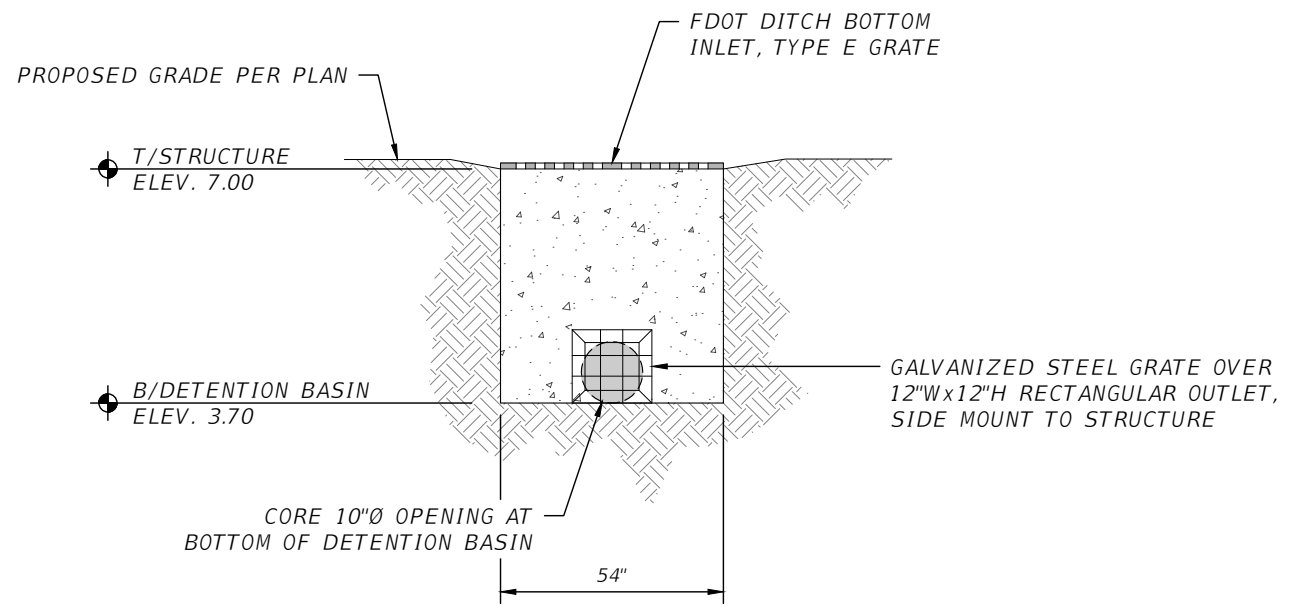
DN-04

0+50.00 - 2+50.00



1" = 30' Horizontal
1" = 10' Vertical

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			DETENTION BASIN SEWER PROFILES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		64
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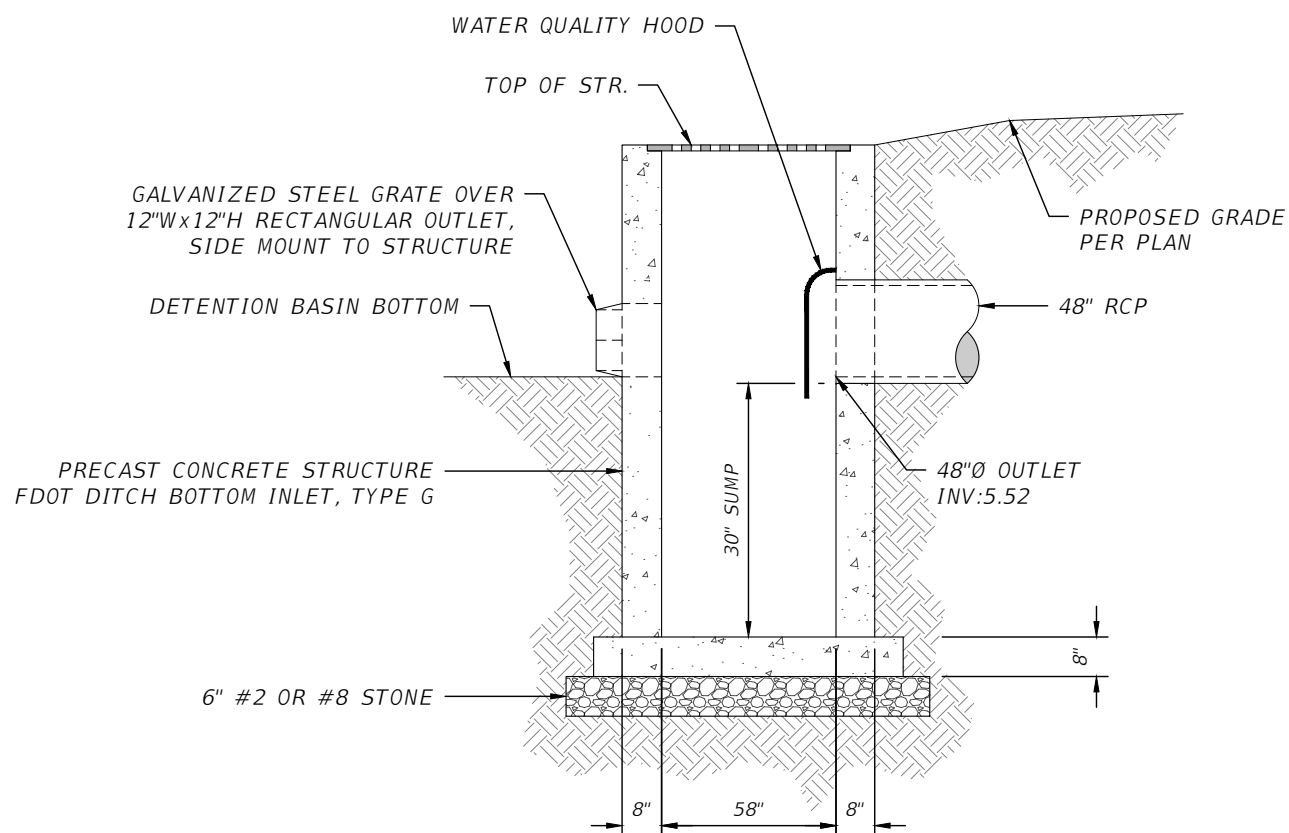
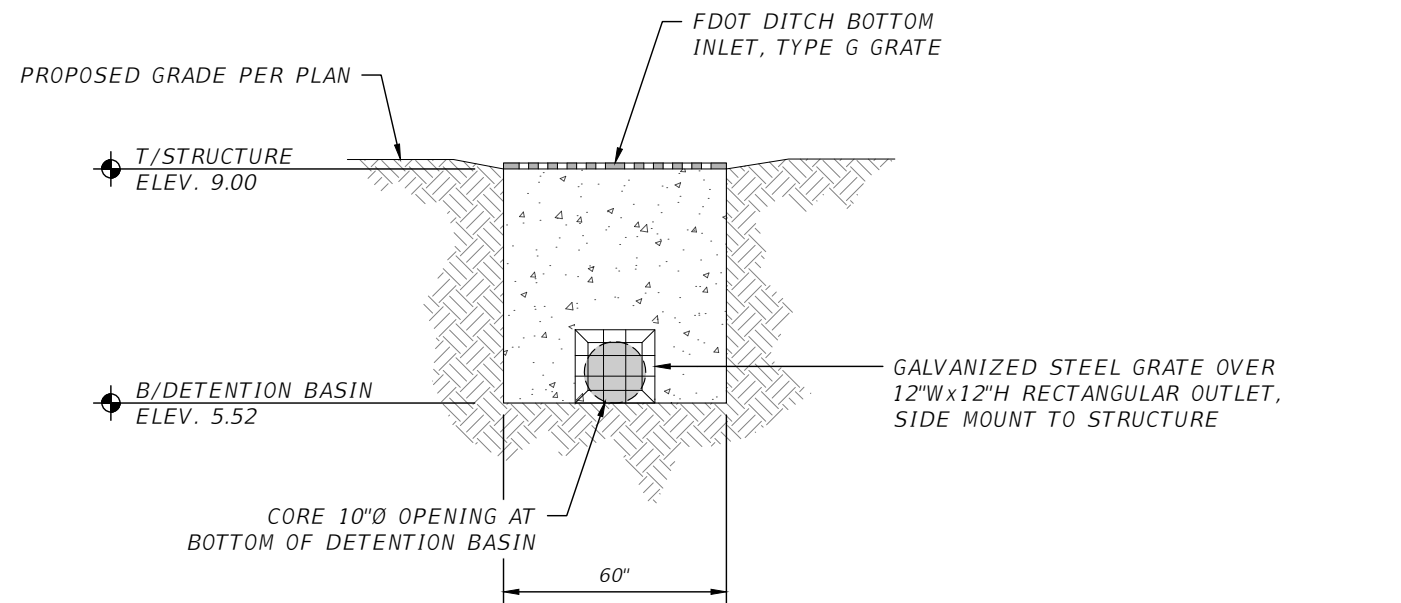
NOTE:
 THE PRECAST STRUCTURE SUPPLIER SHALL BE RESPONSIBLE FOR STRUCTURAL DESIGN. THE SUPPLIER SHALL SUBMIT, THROUGH THE CONTRACTOR, SHOP DRAWINGS TO THE ENGINEER OF RECORD FOR APPROVAL.

NOTE:
 THE PRECAST STRUCTURE SUPPLIER SHALL BE RESPONSIBLE FOR STRUCTURAL DESIGN. THE SUPPLIER SHALL SUBMIT, THROUGH THE CONTRACTOR, SHOP DRAWINGS TO THE ENGINEER OF RECORD FOR APPROVAL.

STR. NO. 312 OUTLET DETAIL
 NOT TO SCALE

STR. NO. 315 OUTLET DETAIL
 NOT TO SCALE

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			SHEET NO. 65
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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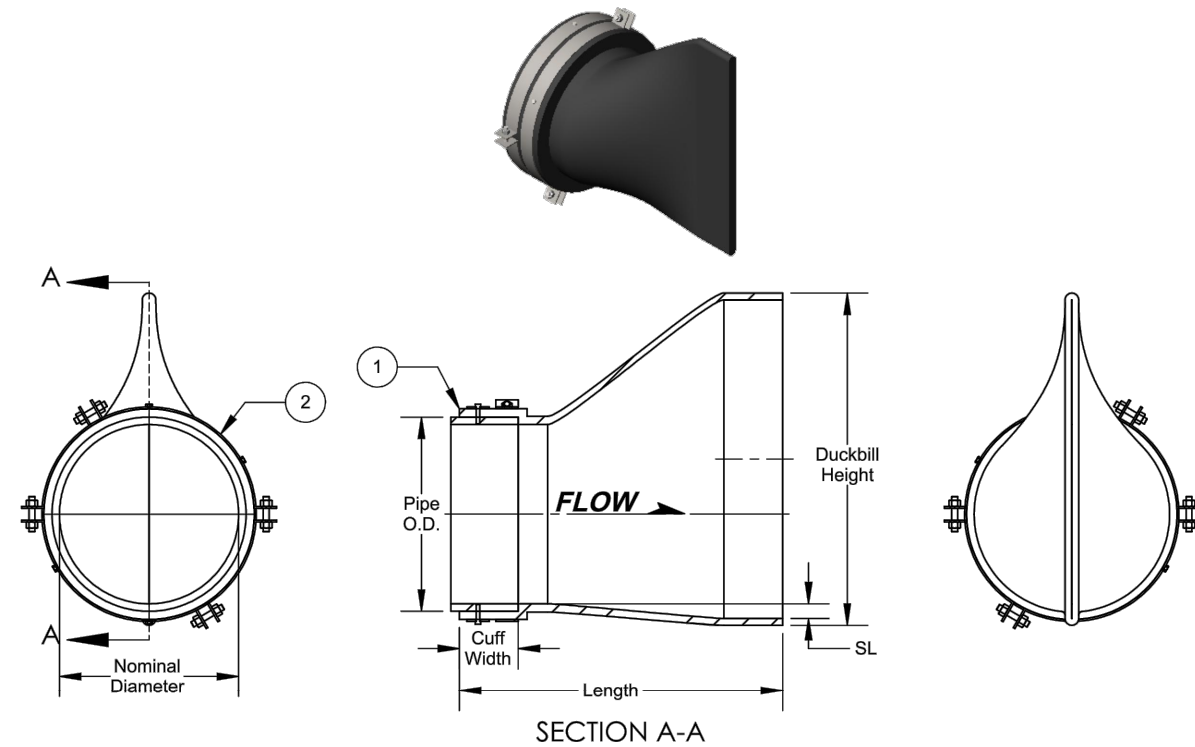
NOTE:

THE PRECAST STRUCTURE SUPPLIER SHALL BE RESPONSIBLE FOR STRUCTURAL DESIGN. THE SUPPLIER SHALL SUBMIT, THROUGH THE CONTRACTOR, SHOP DRAWINGS TO THE ENGINEER OF RECORD FOR APPROVAL.

STR. NO. 403 OUTLET DETAIL
NOT TO SCALE

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			SHEET NO. 66
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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FOR STORM SEWER OUTFALLS



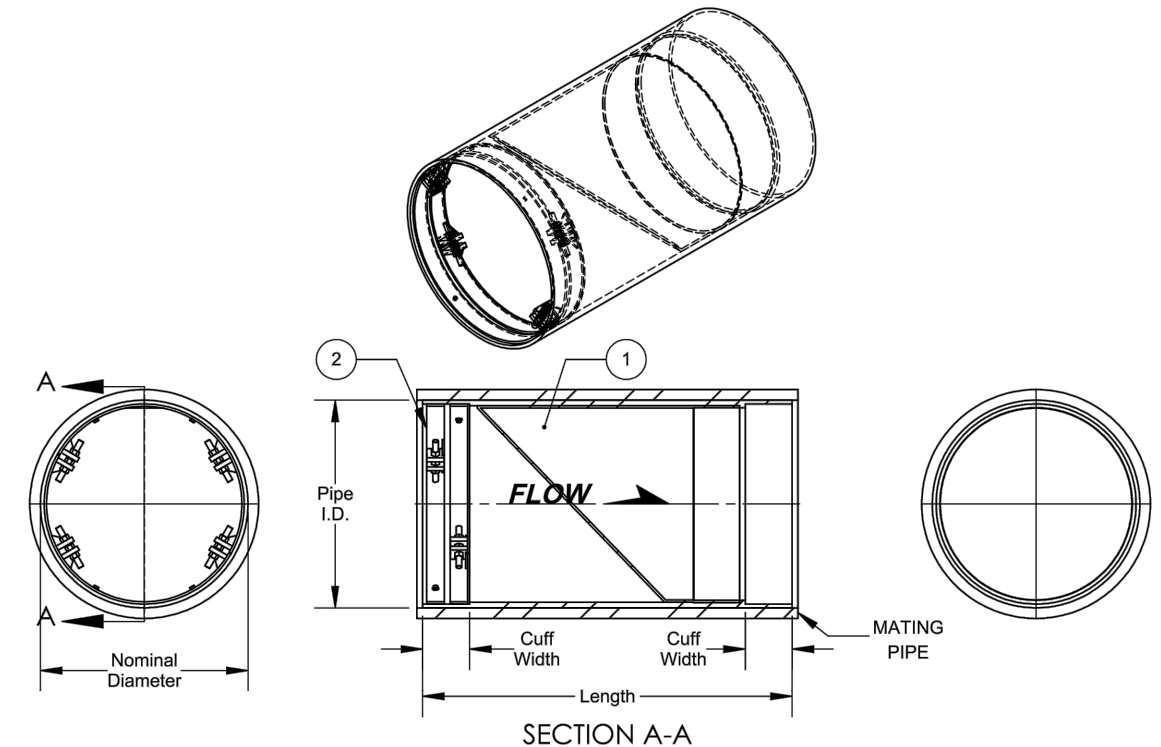
DIMENSIONS	NOMINAL DIAMETER (IN)	
		42.0
CUFF WIDTH (IN)	12.0	12.0
LENGTH (IN)	63.2	73.6
DUCKBILL HEIGHT (IN)	71.6	89.9
SL (IN)	3.0	3.9
PROJECT LOCATION	STR. 312 OUTFALL	EX. IMPERIAL PARKWAY STORM SEWER OUTFALL

- LEGEND:**
- ① PROCO PRODUCTS, INC. PROFLEX STYLE 731: SLIP-ON SLOPE BOTTOM RUBBER CHECK VALVE OR ENGINEER APPROVED EQUAL
 - ② PROCO PRODUCTS, INC. EXTERNAL CLAMP OR ENGINEER APPROVED EQUAL

NOTE:
VALVES SHALL BE INSTALLED AND ANCHORED TO PIPE PER MANUFACTURER STANDARDS AND SPECIFICATIONS.

SLIP-ON SLOPE BOTTOM RUBBER CHECK VALVE DETAIL
NOT TO SCALE

FOR OUTFALLS AT DETENTION BASINS "A" AND "B"



DIMENSIONS:

1. NOMINAL DIAMETER:	36.0-INCHES
2. CUFF WIDTH:	7.9-INCHES
3. LENGTH:	63.8-INCHES

- LEGEND:**
- ① PROCO PRODUCTS, INC. PROFLEX STYLE 790: LOW HEADLOSS IN-LINE RUBBER CHECK VALVE OR ENGINEER APPROVED EQUAL
 - ② PROCO PRODUCTS, INC. INTERNAL EXPANDABLE CLAMP OR ENGINEER APPROVED EQUAL

NOTE:
VALVES SHALL BE INSTALLED AND ANCHORED TO PIPE PER MANUFACTURER STANDARDS AND SPECIFICATIONS.

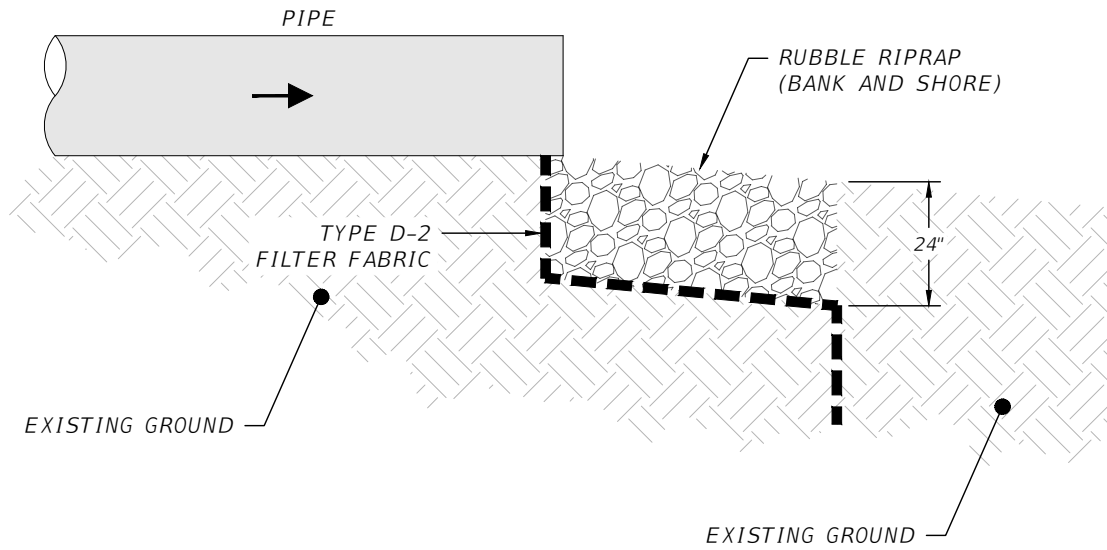
IN-LINE RUBBER CHECK VALVE DETAIL
NOT TO SCALE

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			SHEET NO. 67
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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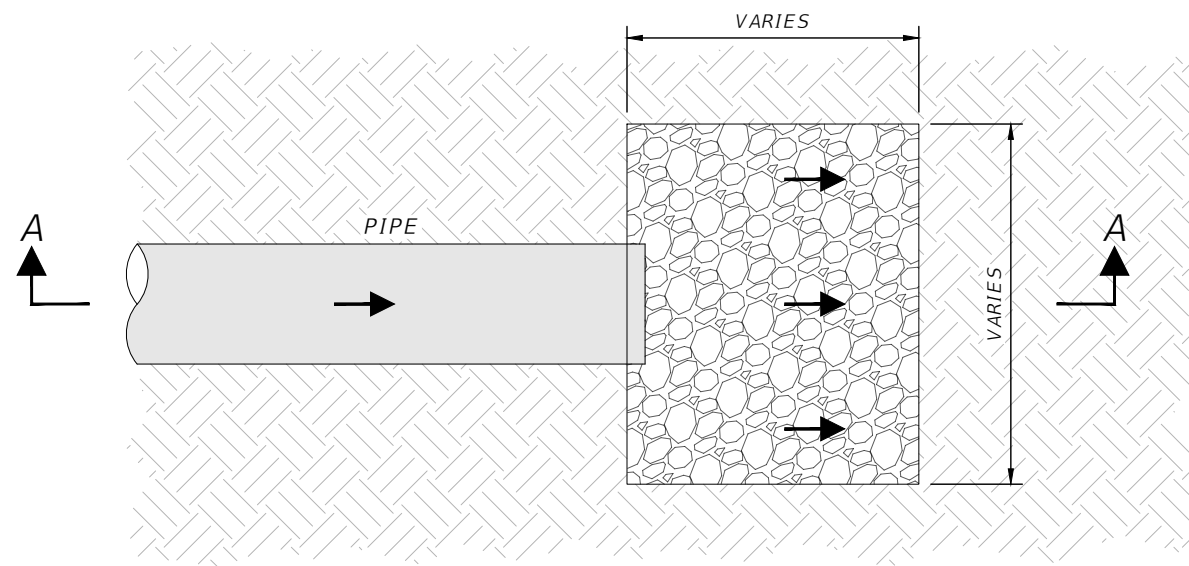
FOR PIPE OUTFALLS AT DETENTION BASINS "A" AND "B"

NOTES:

1. RUBBLE RIPRAP TO BE NOTCHED TO CONFORM TO BANK SLOPE.
2. DIMENSIONS OF RUBBLE RIPRAP VARY. SEE GRADING PLANS FOR PROPOSED LAYOUT.



SECTION A-A

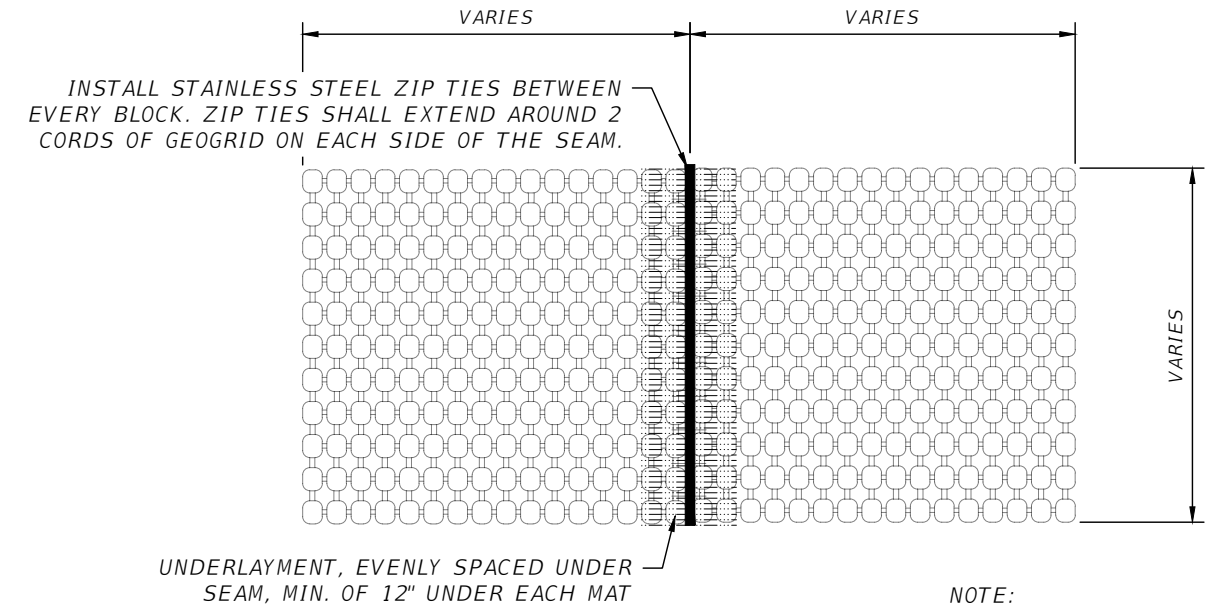


PLAN VIEW

**PIPE OUTFALL DETAIL
NOT TO SCALE**

SUBGRADE THICKNESS OF CRUSHED STONE		
SITE SOIL TYPE	LIGHT LOAD VEHICLES (CARS, PICK UP TRUCKS)	MEDIUM LOAD VEHICLES (LARGE TRUCKS, RV'S DELIVERY VEHICLES)
GRAVEL AND SAND COARSE WELL DRAINED SOILS	BASE: 3.5" TO 3.75" CRUSHED STONE	BASE: 7.5" CRUSHED STONE
SILTY SOILS FINE GRAIN SOILS POOR DRAINAGE	BASE: 7.5" CRUSHED STONE	BASE: 9.5" CRUSHED STONE
CLAY SOILS FINE TO VERY FINE	BASE: 6" TO 9.5" CRUSHED STONE	BASE: 10" CRUSHED STONE

ROLLS AVAILABLE IN STANDARD WIDTHS: 4', 5.5', 8' 10' 12' & 16'



UNDERLAYMENT, EVENLY SPACED UNDER SEAM, MIN. OF 12" UNDER EACH MAT

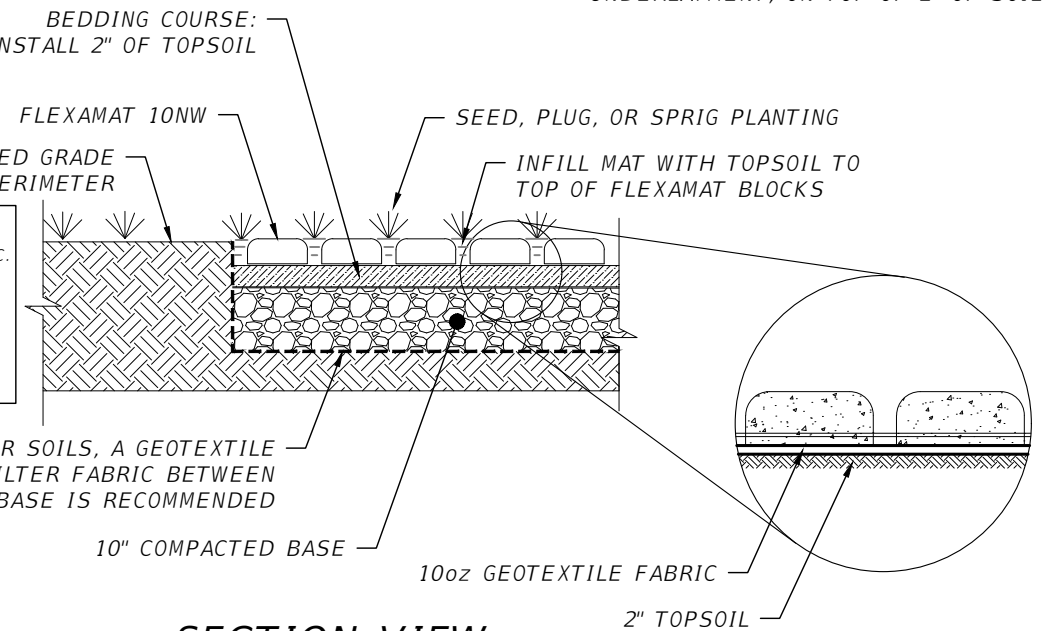
NOTE:

USE 10 OZ. NON-WOVEN GEOTEXTILE UNDERLAYMENT, ON TOP OF 2" OF SOIL

PLAN VIEW

FLEXAMAT INFORMATION:
 MANUFACTURER: MOTZ ENTERPRISES, INC.
 PRODUCT NAME: FLEXAMAT®
 ADDRESS: 3153 MADISON ROAD
 CINCINNATI, OHIO 46209
 TELEPHONE: 513-772-MOTZ (6689)
 CONTACT: MATT MOTZ
 EMAIL: Info@Flexamat.com
 WEBSITE: www.Flexamat.com

FOR CLAY OR GRANULAR SOILS, A GEOTEXTILE SEPARATION FILTER FABRIC BETWEEN SUBGRADE AND BASE IS RECOMMENDED



SECTION VIEW

**FLEXAMAT INSTALLATION DETAIL
NOT TO SCALE**

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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ENGINEER OF RECORD FULL NAME, P.E.
 P.E. LICENSE NUMBER 00000
 AMERICAN STRUCTUREPOINT INC.
 5405 CYPRESS CENTER DR., SUITE 310
 TAMPA, FL 33609
 CERTIFICATE OF AUTHORIZATION 00000000

CITY OF BONITA SPRINGS

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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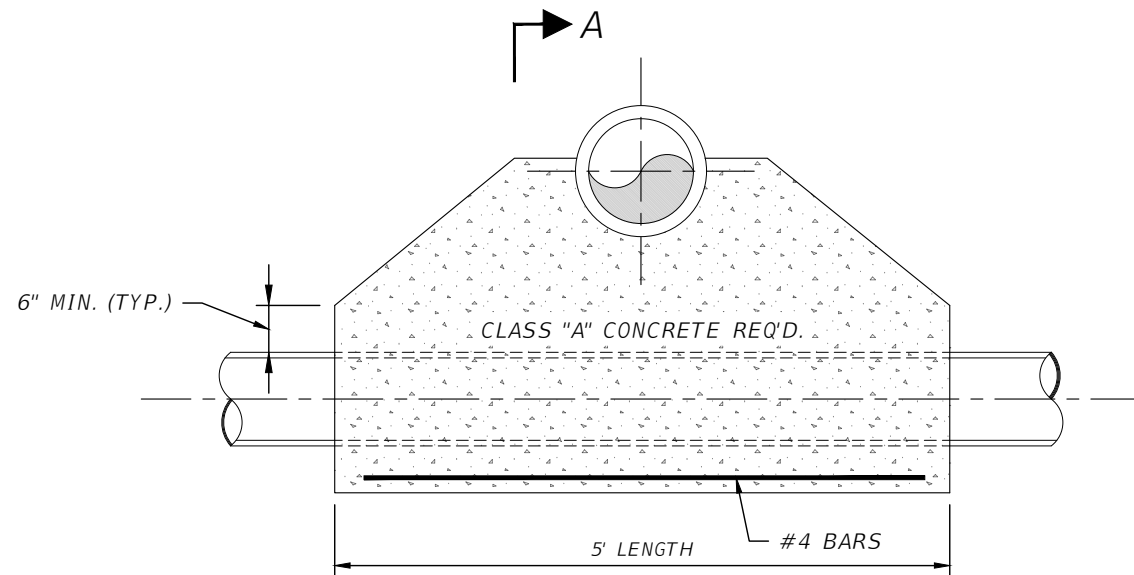
**MISCELLANEOUS
DETAILS**

SHEET NO.

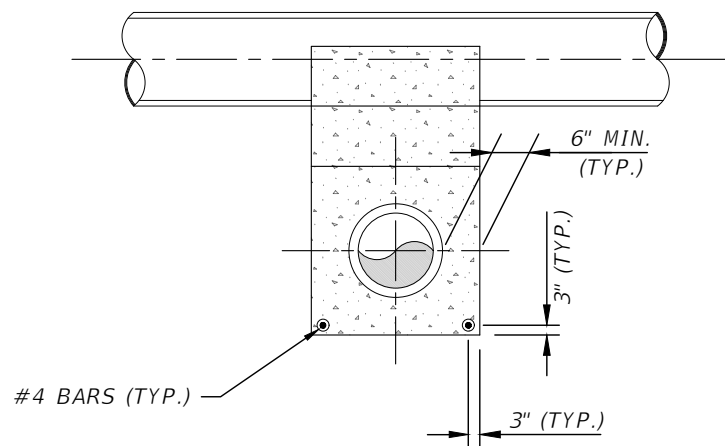
68

NOTE:

TO BE USED WHEN CLEARANCE BETWEEN PIPES IS 12" OR LESS, OR WHERE NOTED ON DRAWINGS.



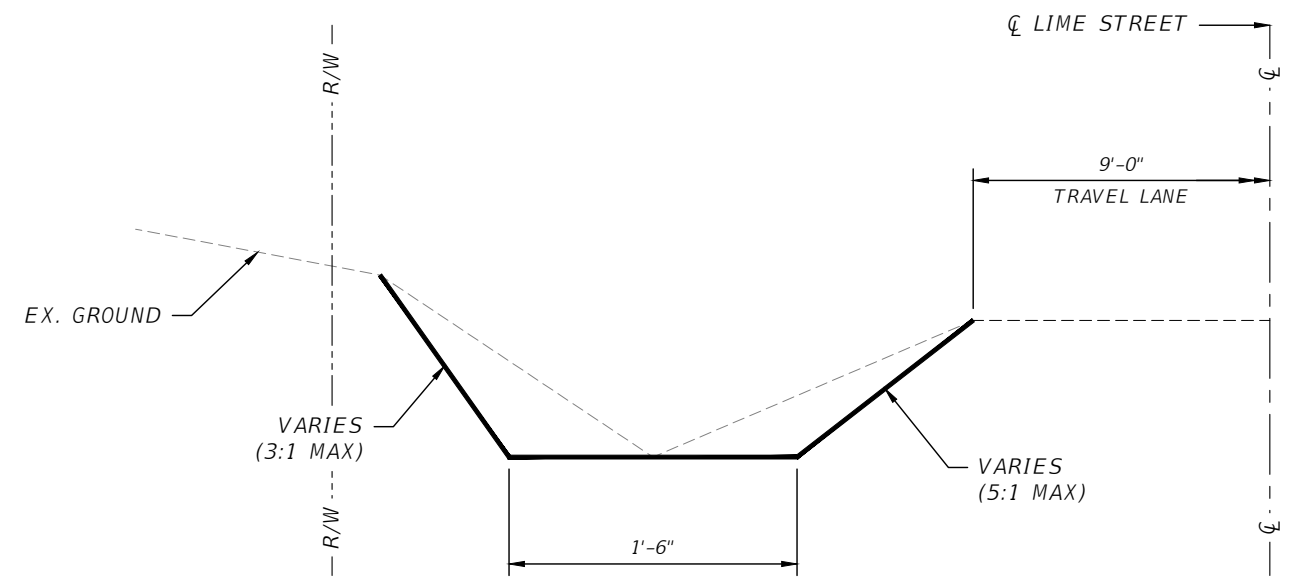
PROFILE



SECTION A-A

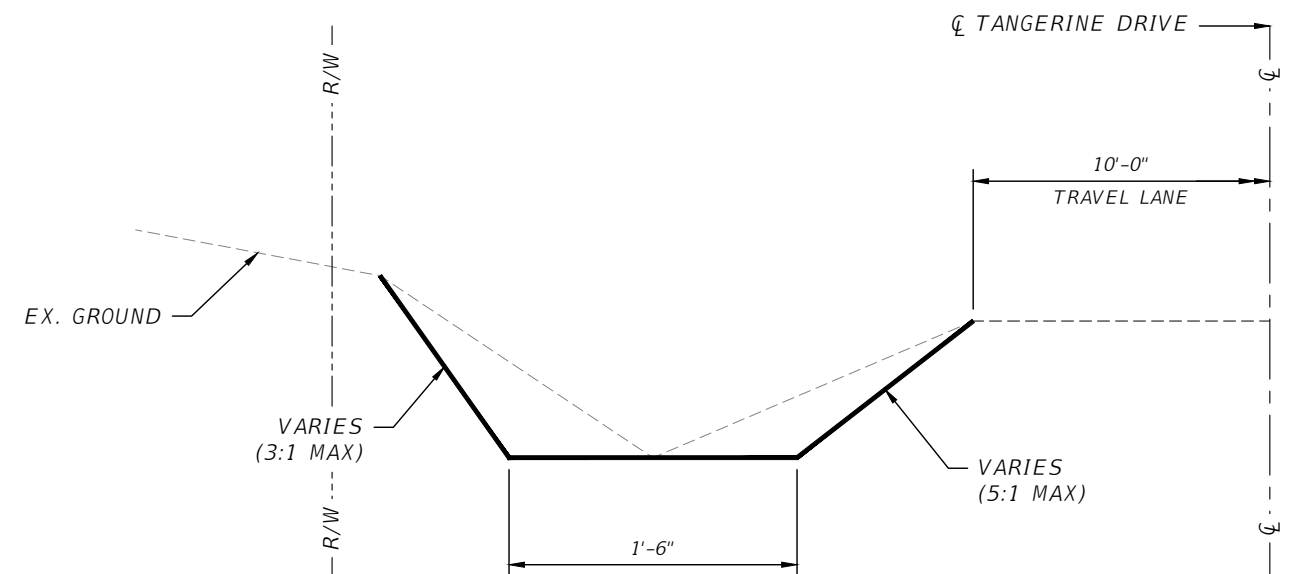
CONCRETE SADDLE DETAIL
NOT TO SCALE

LIME STREET - STA. 20+53.84, LT. TO STA. 24+93.85, LT.



DITCH GRADING TYPICAL SECTION
NOT TO SCALE

TANGERINE DRIVE - STA. 57+34.56, LT. TO STA. 61+47.75, LT.



DITCH GRADING TYPICAL SECTION
NOT TO SCALE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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ENGINEER OF RECORD FULL NAME, P.E.
P.E. LICENSE NUMBER 00000
AMERICAN STRUCTUREPOINT INC.
5405 CYPRESS CENTER DR., SUITE 310
TAMPA, FL 33609
CERTIFICATE OF AUTHORIZATION 00000000

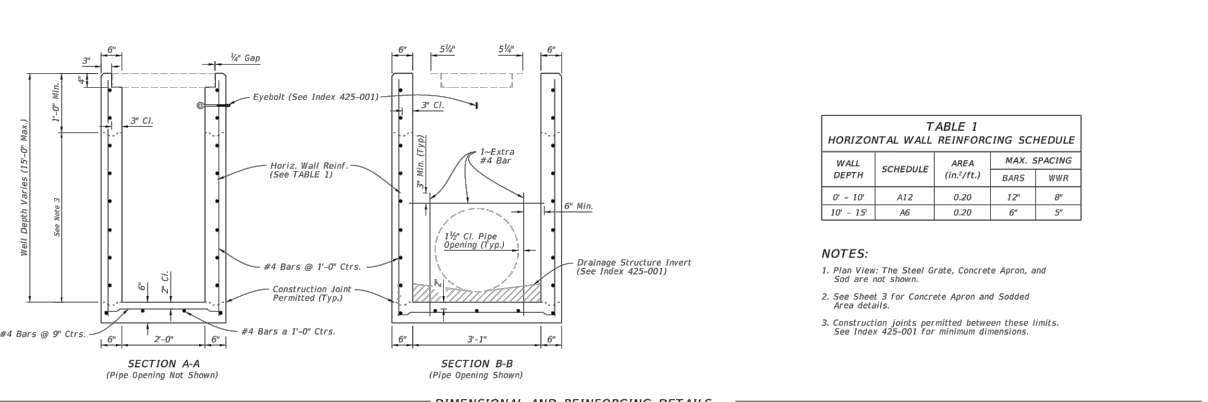
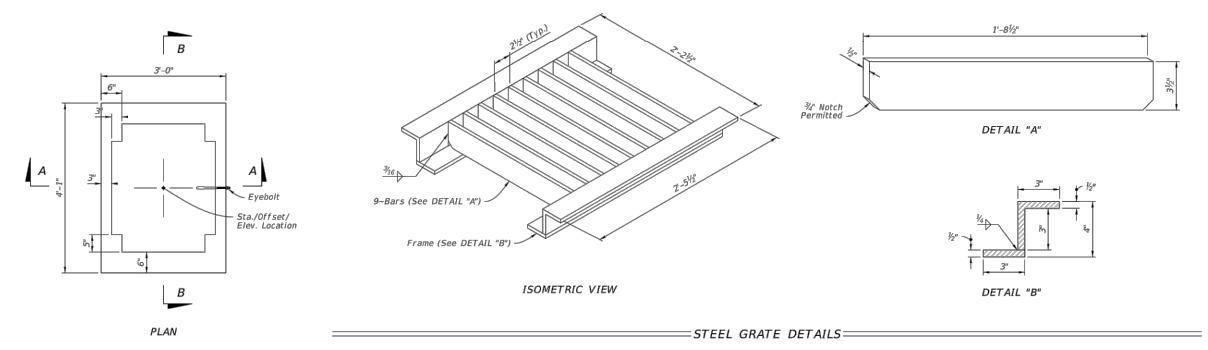
CITY OF BONITA SPRINGS

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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**MISCELLANEOUS
DETAILS**

SHEET NO.

69



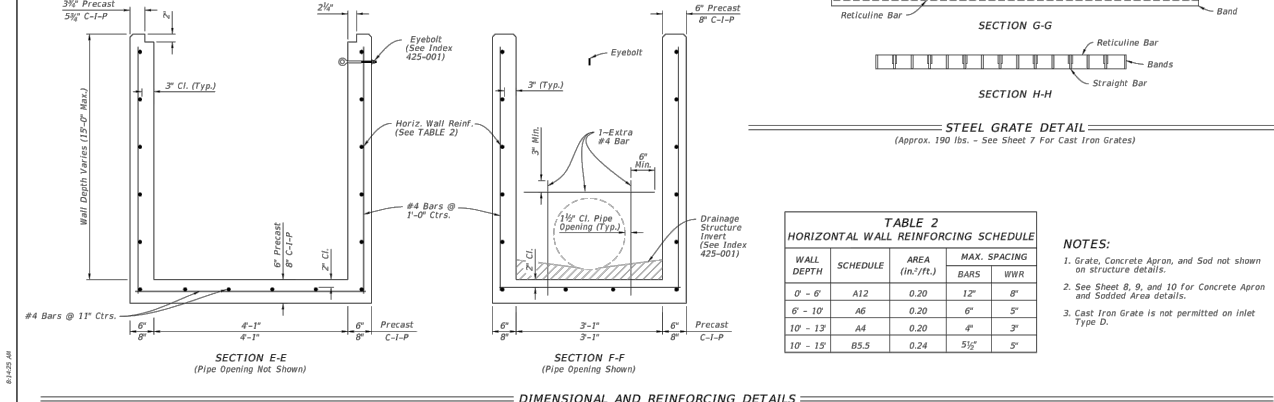
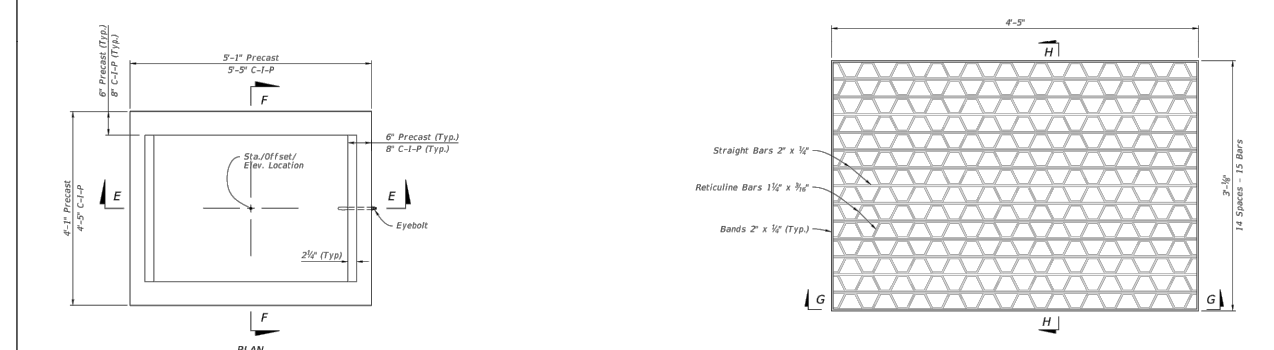
**TABLE 1
HORIZONTAL WALL REINFORCING SCHEDULE**

WALL DEPTH	SCHEDULE	AREA (in. ² /ft.)	MAX. SPACING BARS	WWR
0' - 10'	A12	0.20	12"	8"
10' - 15'	A6	0.20	6"	5"

NOTES:
 1. Plan View: The Steel Grate, Concrete Apron, and Sod are not shown.
 2. See Sheet 3 for Concrete Apron and Sodded Area details.
 3. Construction joints permitted between these limits. See Index 425-001 for minimum dimensions.

DIMENSIONAL, REINFORCING, AND STEEL GRATE DETAILS

LAST REVISION 10/01/20 DESCRIPTION: **FY 2023-24 STANDARD PLANS** INDEX 425-050 SHEET 2 of 4
DITCH BOTTOM INLET TYPE A



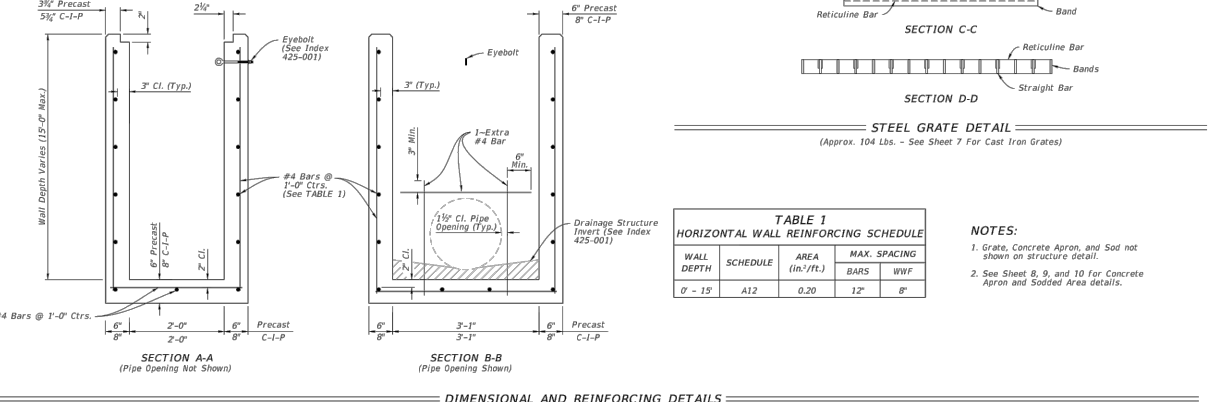
**TABLE 2
HORIZONTAL WALL REINFORCING SCHEDULE**

WALL DEPTH	SCHEDULE	AREA (in. ² /ft.)	MAX. SPACING BARS	WWR
0' - 8'	A12	0.20	12"	8"
8' - 10'	A6	0.20	6"	5"
10' - 13'	A4	0.20	4"	3"
10' - 15'	B5.5	0.24	5 1/2"	5"

NOTES:
 1. Grate, Concrete Apron, and Sod not shown on structure details.
 2. See Sheet 8, 9, and 10 for Concrete Apron and Sodded Area details.
 3. Cast Iron Grate is not permitted on Inlet Type D.

TYPE D - DIMENSIONAL, REINFORCING, AND STEEL GRATE DETAILS

LAST REVISION 10/01/20 DESCRIPTION: **FY 2023-24 STANDARD PLANS** INDEX 425-052 SHEET 3 of 14
DITCH BOTTOM INLET TYPES C, D, E, AND H



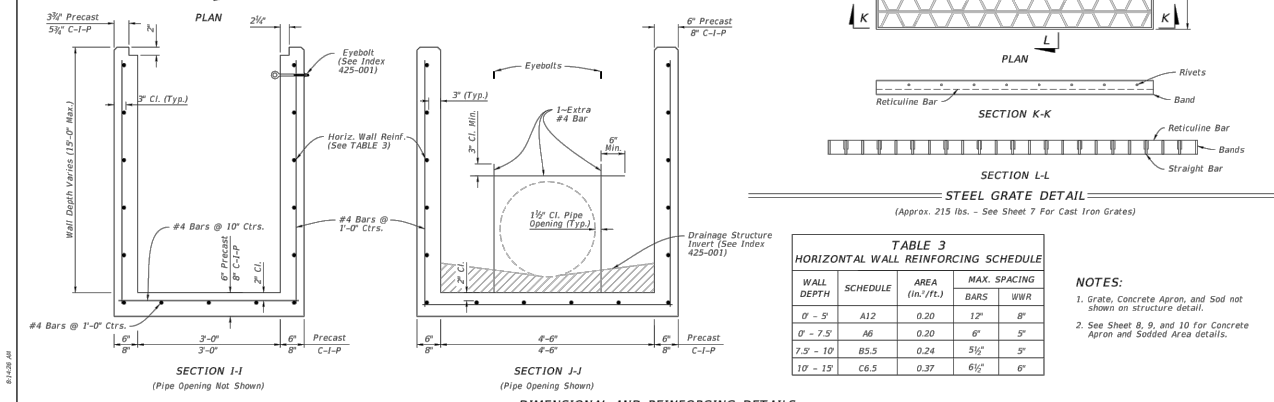
**TABLE 1
HORIZONTAL WALL REINFORCING SCHEDULE**

WALL DEPTH	SCHEDULE	AREA (in. ² /ft.)	MAX. SPACING BARS	WWR
0' - 15'	A12	0.20	12"	8"

NOTES:
 1. Grate, Concrete Apron, and Sod not shown on structure detail.
 2. See Sheet 8, 9, and 10 for Concrete Apron and Sodded Area details.

TYPE C - DIMENSIONAL, REINFORCING, AND STEEL GRATE DETAILS

LAST REVISION 10/01/20 DESCRIPTION: **FY 2023-24 STANDARD PLANS** INDEX 425-052 SHEET 2 of 14
DITCH BOTTOM INLET TYPES C, D, E, AND H



**TABLE 3
HORIZONTAL WALL REINFORCING SCHEDULE**

WALL DEPTH	SCHEDULE	AREA (in. ² /ft.)	MAX. SPACING BARS	WWR
0' - 5'	A12	0.20	12"	8"
0' - 7.5'	A6	0.20	6"	5"
7.5' - 10'	B5.5	0.24	5 1/2"	5"
10' - 15'	C6.5	0.37	6 1/2"	6"

NOTES:
 1. Grate, Concrete Apron, and Sod not shown on structure detail.
 2. See Sheet 8, 9, and 10 for Concrete Apron and Sodded Area details.

TYPE E - DIMENSIONAL, REINFORCING, AND STEEL GRATE DETAILS

LAST REVISION 10/01/20 DESCRIPTION: **FY 2023-24 STANDARD PLANS** INDEX 425-052 SHEET 4 of 14
DITCH BOTTOM INLET TYPES C, D, E, AND H

NOTE: FOR ADDITIONAL INLET DETAILS REFER TO FDOT INDEX: 425-050, 425-052

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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ENGINEER OF RECORD FULL NAME, P.E.
 P.E. LICENSE NUMBER 00000
 AMERICAN STRUCTUREPOINT INC.
 5405 CYPRESS CENTER DR., SUITE 310
 TAMPA, FL 33609
 CERTIFICATE OF AUTHORIZATION 00000000

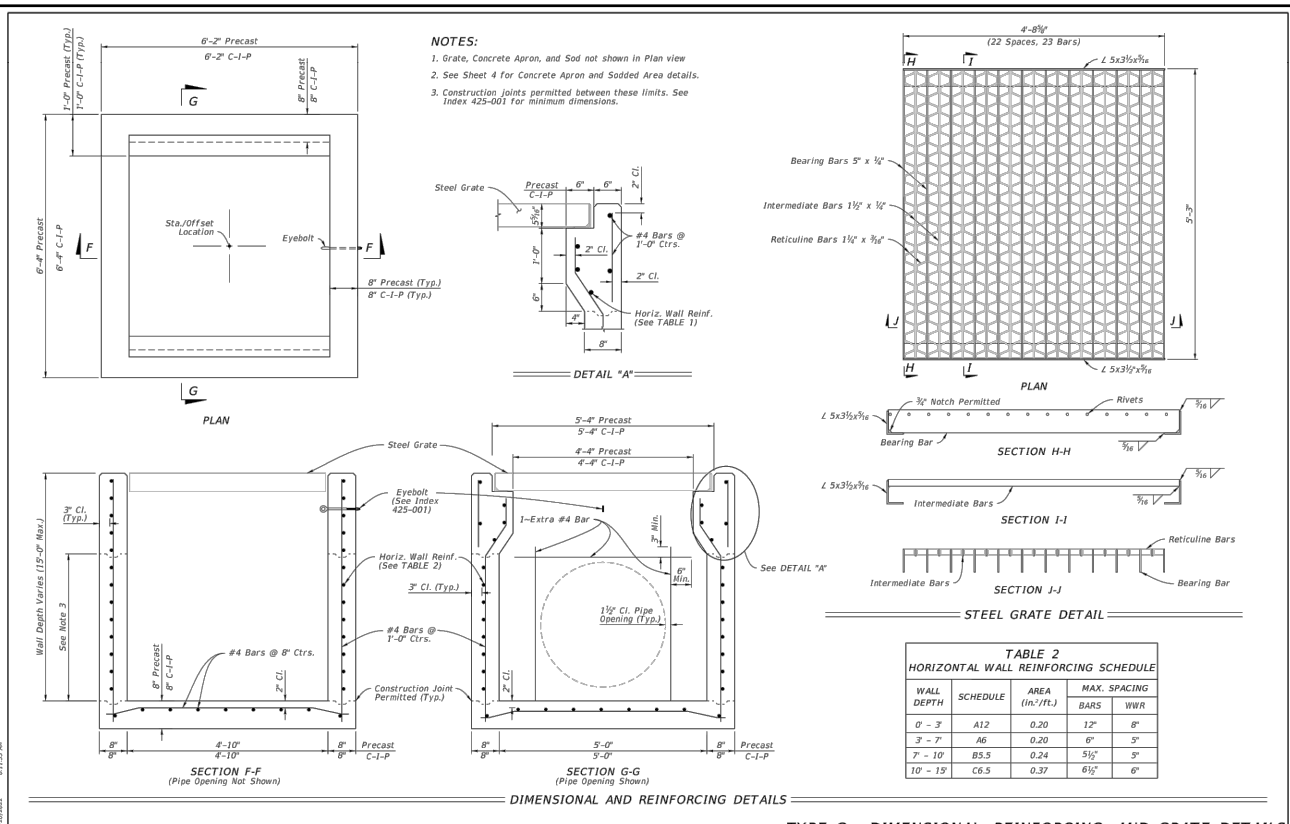
CITY OF BONITA SPRINGS

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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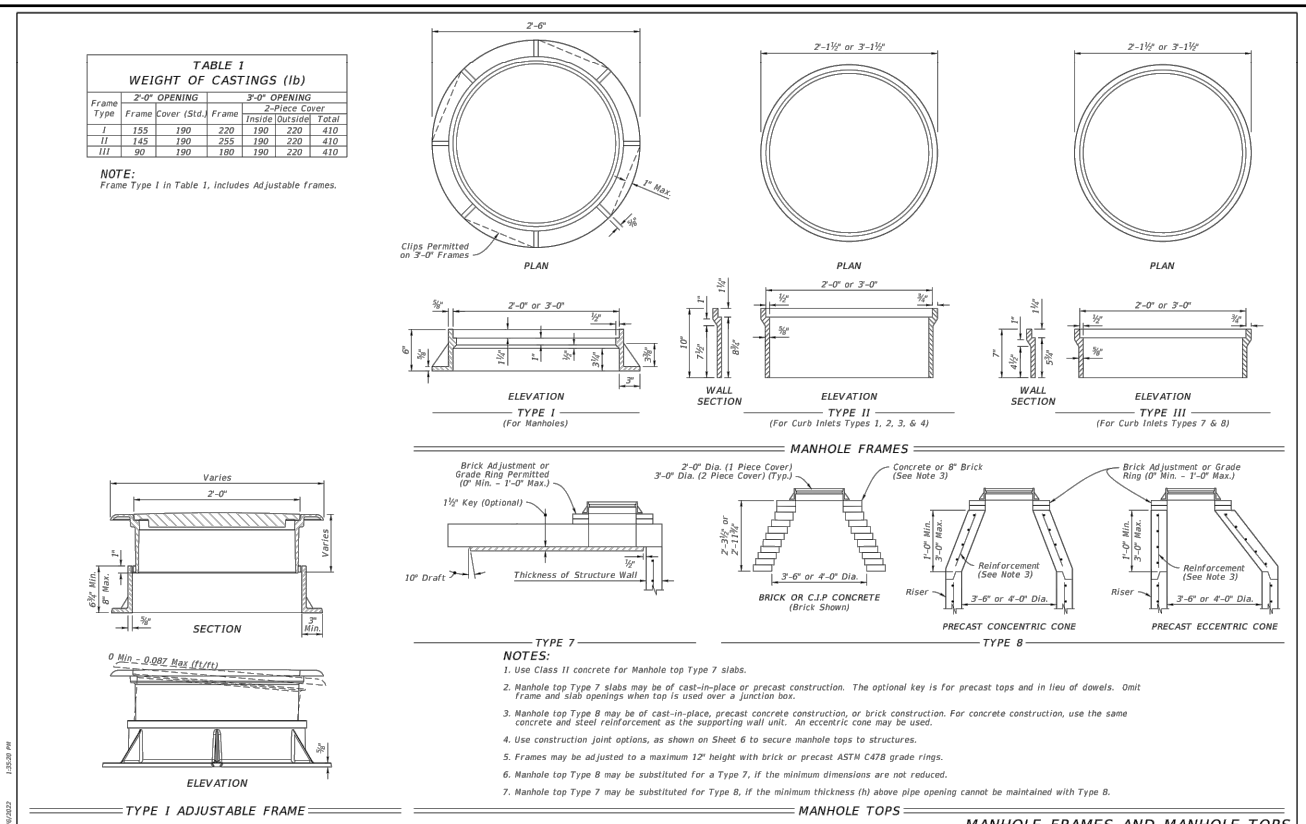
MISCELLANEOUS DETAILS

SHEET NO. 70

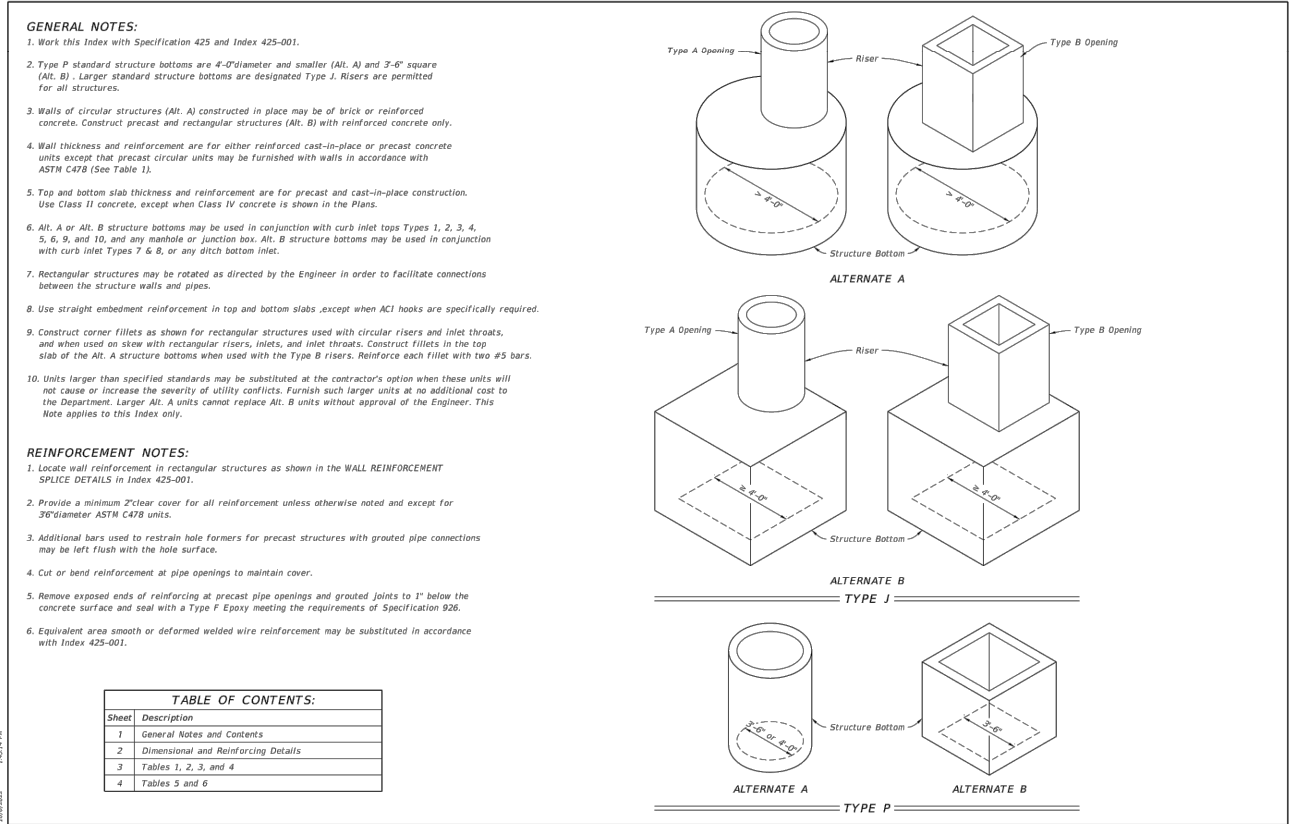
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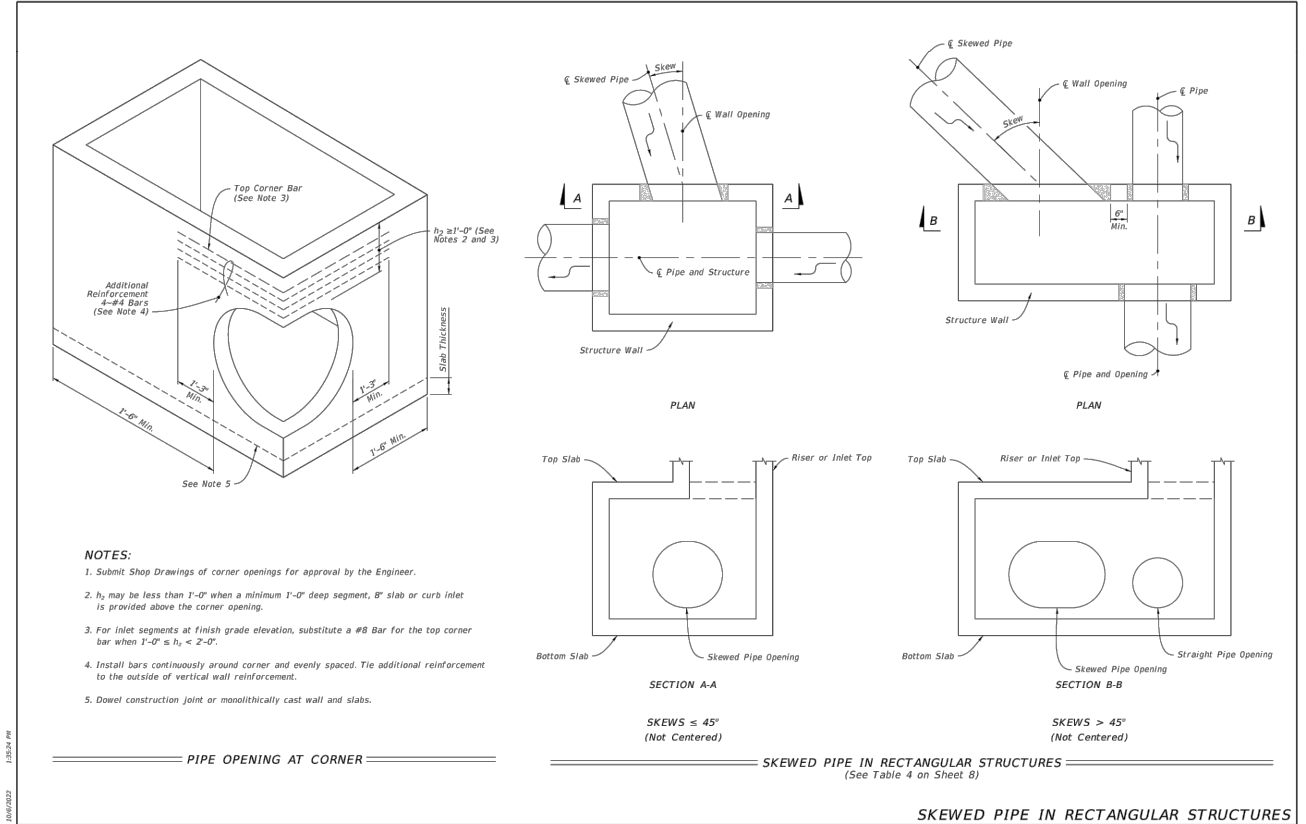
LAST REVISION: 10/01/20	DESCRIPTION: FY 2023-24 STANDARD PLANS	INDEX: 425-053	SHEET: 3 of 4
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LAST REVISION: 11/01/20	DESCRIPTION: SUPPLEMENTARY DETAILS FOR DRAINAGE STRUCTURES	INDEX: 425-001	SHEET: 2 of 8
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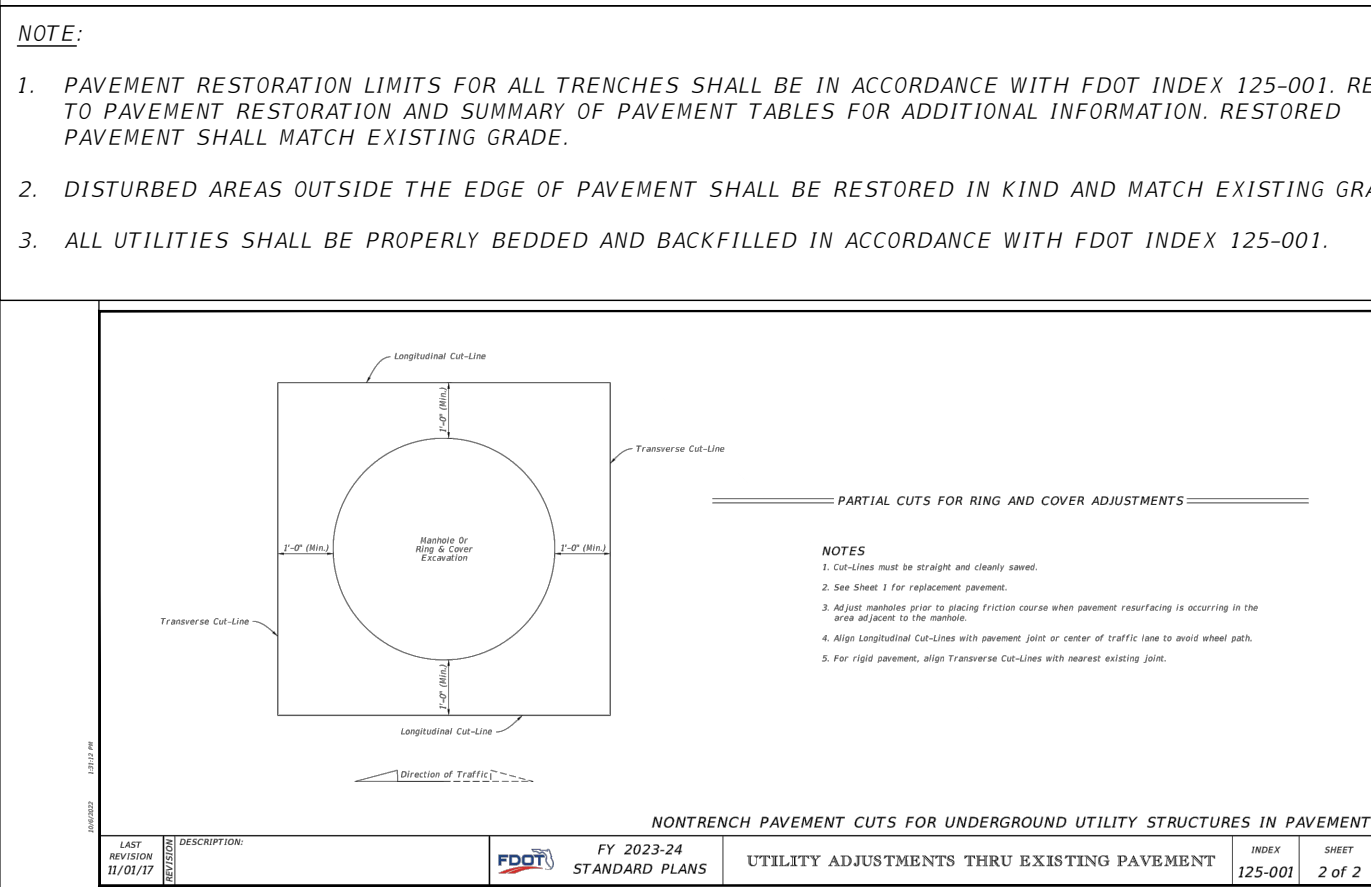
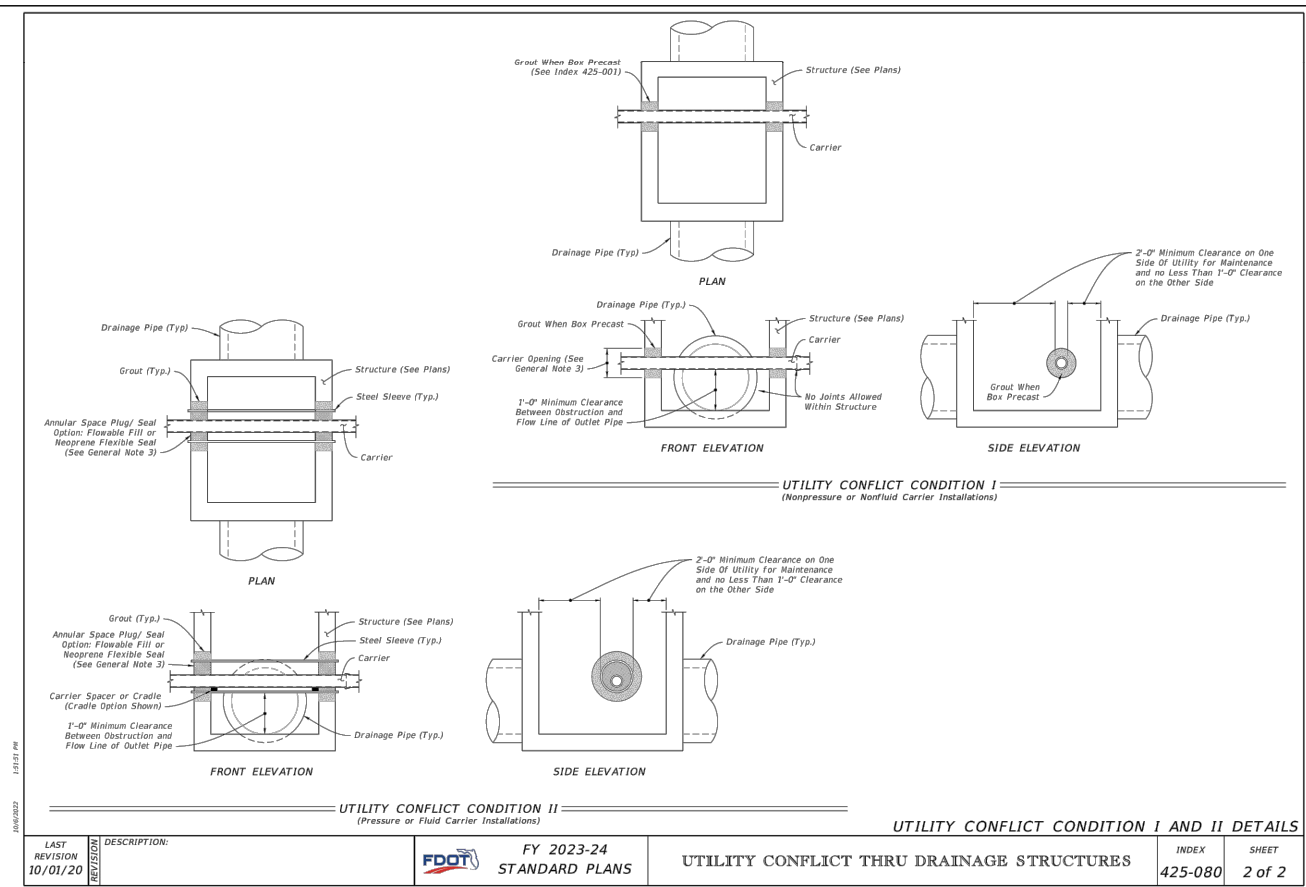
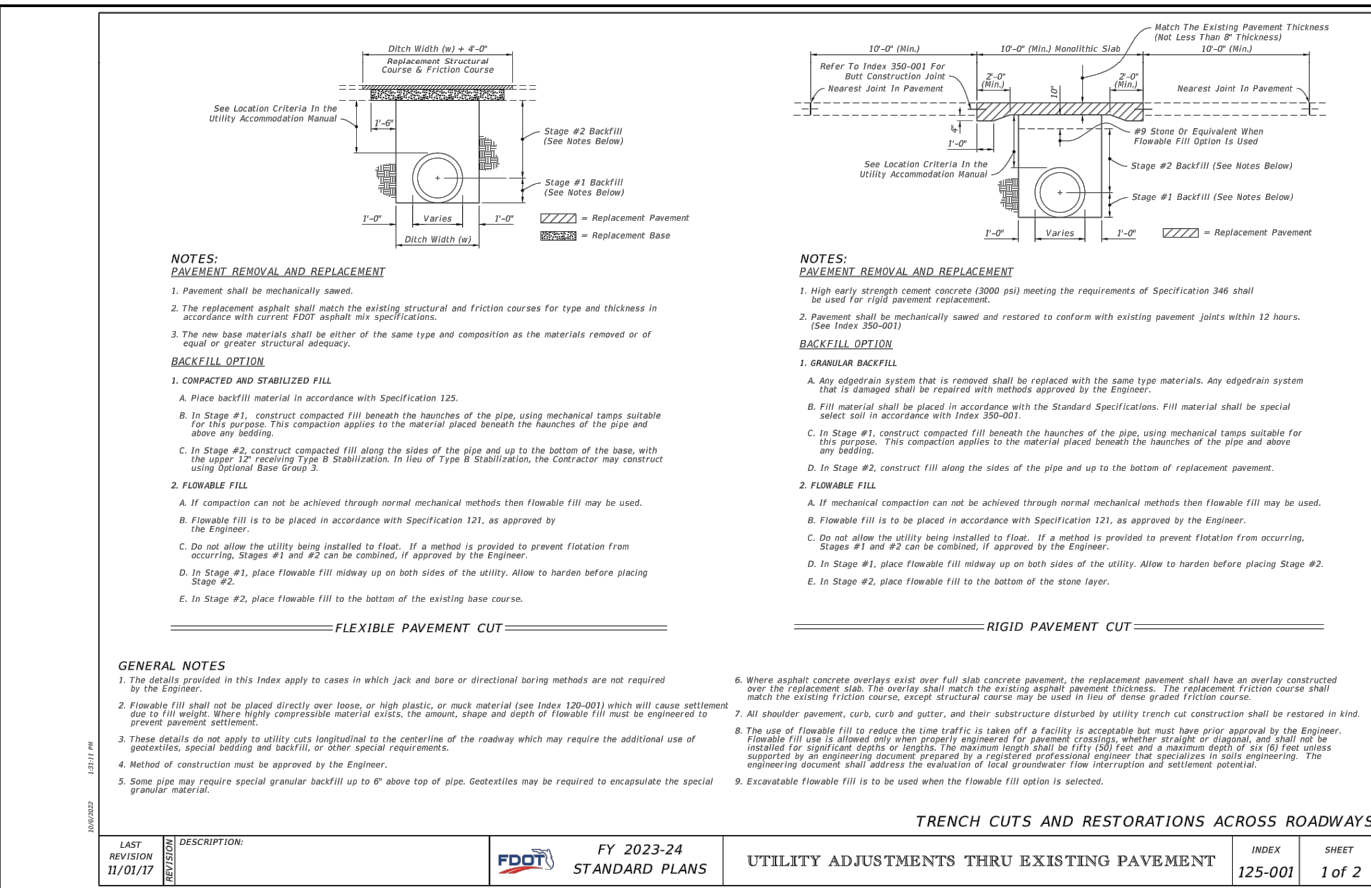
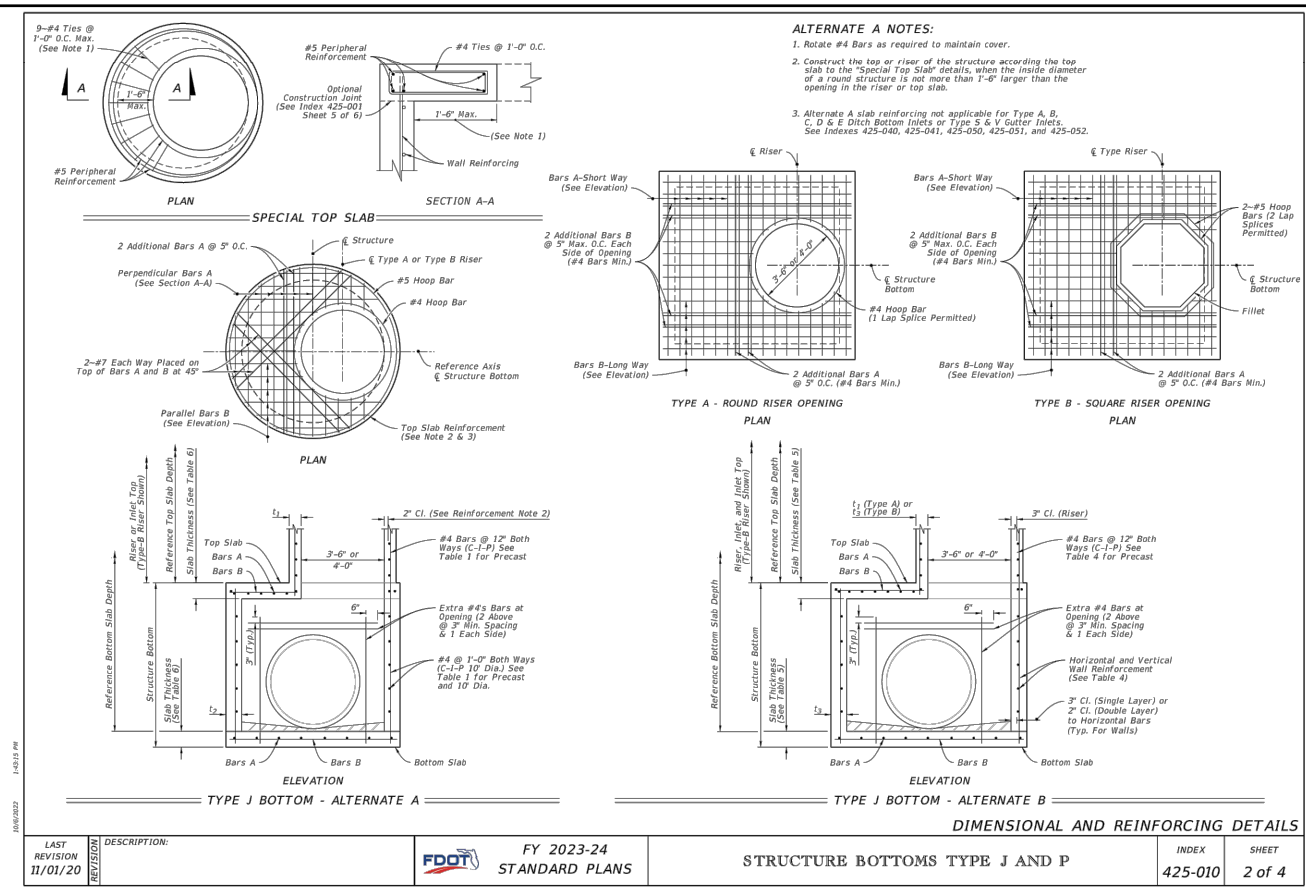
LAST REVISION: 11/01/20	DESCRIPTION: FY 2023-24 STANDARD PLANS	INDEX: 425-010	SHEET: 1 of 4
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LAST REVISION: 11/01/20	DESCRIPTION: SUPPLEMENTARY DETAILS FOR DRAINAGE STRUCTURES	INDEX: 425-001	SHEET: 7 of 8
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NOTE: FOR ADDITIONAL INLET DETAILS REFER TO FDOT INDEX: 425-053 FOR ADDITIONAL MANHOLE DETAILS REFER TO FDOT INDEX: 425-001 425-010

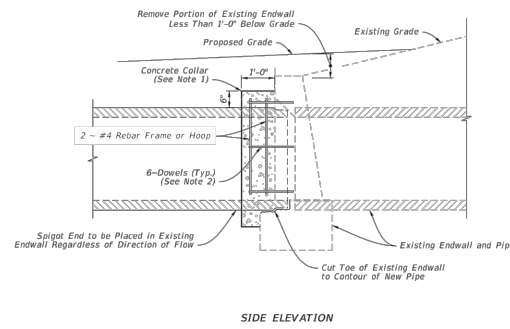
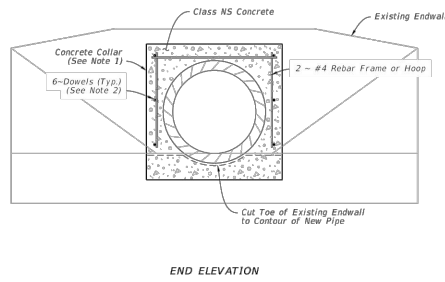
REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			SHEET NO. 71
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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NOTE: FOR ADDITIONAL STRUCTURE DETAILS REFER TO FDOT INDEX: 425-010
 FOR ADDITIONAL UTILITY CONFLICT STRUCTURE DETAILS REFER TO FDOT INDEX: 425-080

FOR ADDITIONAL TRENCH CUT, BACKFILL, AND PAVEMENT RESTORATION REFER TO FDOT INDEX: 125-001

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			SHEET NO. 72
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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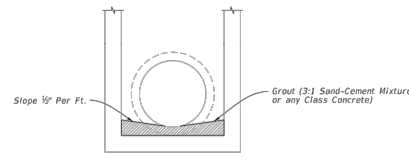


- NOTES:
- The collar may be formed by any method approved by the Engineer.
 - Install 1/2"x10" dowels in adhesive bond material.

EXTENSION OF EXISTING PIPE CULVERTS

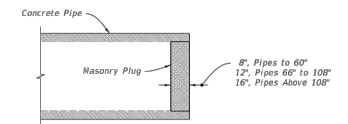
CONCRETE COLLARS

LAST REVISION	DESCRIPTION	FY 2023-24	MISCELLANEOUS DRAINAGE DETAILS	INDEX	SHEET
10/01/20		STANDARD PLANS		430-001	4 of 7



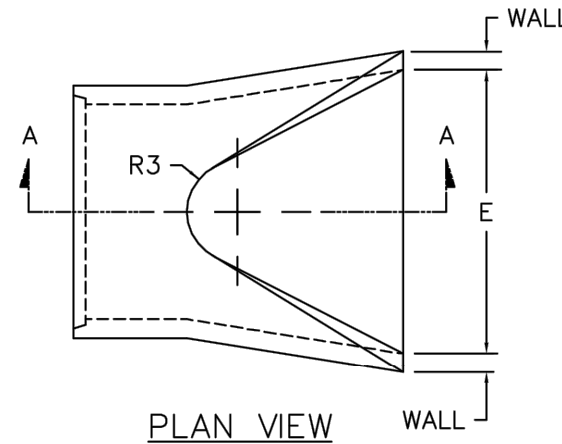
NOTE: For all structures unless excluded by special detail.

DRAINAGE STRUCTURE INVERT

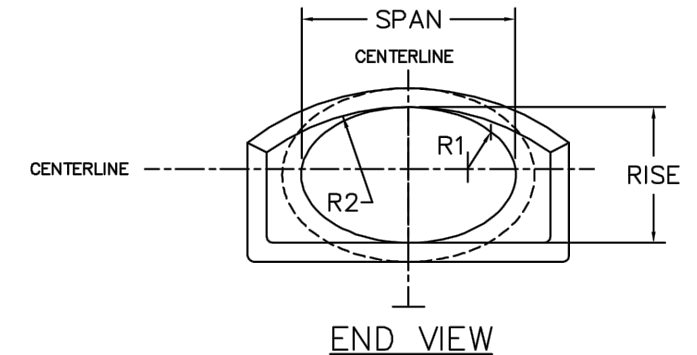


PIPE PLUG

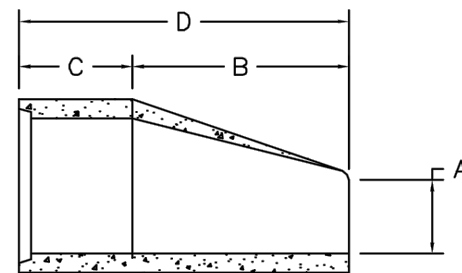
EQUIVALENT CIRCULAR PIPE DIAMETER	NOMINAL INSIDE RISE x SPAN	WALL THICKNESS	APPROX. WEIGHT	A	FLARE LENGTH B	BARREL LENGTH C	LAY LENGTH D	FLARE WIDTH E	R-1	R-2	R-3
18"	14" x 23"	2-3/4"	1300	8"	2'-4"	3'-9"	6'-1"	36"	6-3/32"	19-15/16"	6"
24"	19" x 30"	3-1/4"	1675	8-1/2"	3'-4"	2'-9"	6'-1"	48"	8-7/32"	26-1/4"	7"
30"	24" x 38"	3-3/4"	2450	9-1/2"	4'-6"	1'-6"	6'-0"	60"	10-1/4"	32-13/16"	9"
36"	29" x 45"	4-1/2"	4840	11-1/2"	5'-1"	3'-0"	8'-1"	72"	12-5/8"	39-3/8"	12"
42"	34" x 53"	5"	6456	15-3/4"	5'-0"	3'-0"	8'-0"	78"	14-9/32"	45-29/32"	13"
48"	38" x 60"	5-1/2"	7870	21"	5'-0"	3'-0"	8'-0"	84"	15-7/16"	51-19/32"	14"
54"	43" x 68"	6"	9990	25-1/2"	5'-0"	3'-0"	8'-0"	90"	18-21/32"	58-19/32"	16"



PLAN VIEW



END VIEW

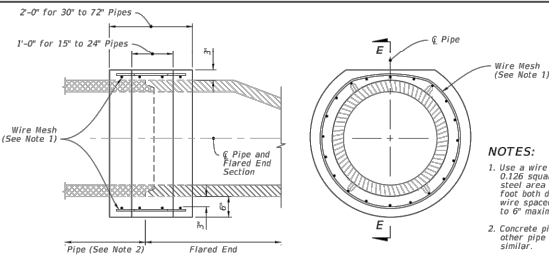


SECTION A - A

ELLIPTICAL FLARED CONCRETE END SECTION DETAIL

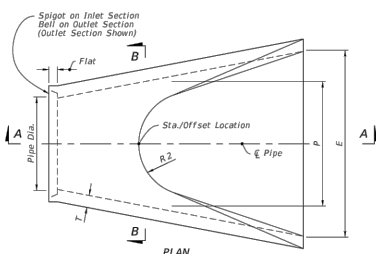
NOT TO SCALE

Pipe Dia.	T	Reinf. sq. in. Per Foot	Bell or Spigot	A	B	C	D	E	P	R 1	R 2	FLAT	h	Toe Wall Class II Conc. (CY.)
12"	2"	0.07	1 1/2"	4"	2'-0"	4'-0 1/2"	6'-0 1/2"	2'-0"	19 1/2"	19 1/2"	9"	3 1/2"	12"	.06
15"	2 1/2"	0.07	2"	6"	2'-3"	3'-10"	6'-1"	2'-0"	24 1/2"	24 1/2"	11"	3 1/2"	12"	.07
18"	2 1/2"	0.07	2 1/2"	9"	2'-3"	3'-10"	6'-1"	2'-0"	24 1/2"	24 1/2"	11"	4"	15"	.11
21"	2 1/2"	0.07	2 1/2"	9"	2'-3"	3'-10"	6'-1"	2'-0"	24 1/2"	24 1/2"	11"	4"	15"	.12
24"	3"	0.09	2 1/2"	9"	3'-3 1/2"	2'-0"	6'-1 1/2"	4'-0"	33 1/2"	33 1/2"	14"	4 1/2"	18"	.17
27"	3 1/2"	0.148	2 1/2"	10 1/2"	4'-0"	2'-1 1/2"	6'-1 1/2"	4'-0"	36"	18 1/2"	14 1/2"	4 1/2"	18"	.19
30"	3 1/2"	0.148	3"	1'-0"	4'-0"	1'-7 1/2"	6'-1 1/2"	3'-0"	37"	18 1/2"	15"	5"	21"	.24
36"	4"	0.148	3 1/2"	1'-3"	5'-3"	2'-10 1/2"	6'-1 1/2"	6'-0"	47 1/2"	24 1/2"	20"	5 1/2"	21"	.29
42"	4 1/2"	0.148	3 1/2"	1'-0"	3'-3"	2'-11"	6'-2"	6'-0"	53 1/2"	27 1/2"	22"	5 1/2"	24"	.36
48"	5"	0.148	4 1/2"	2'-0"	6'-0"	2'-2"	6'-2"	7'-0"	56 1/2"	28 1/2"	22"	5 1/2"	24"	.39
54"	5 1/2"	0.174	4 1/2"	2'-3"	3'-5"	2'-11"	6'-4"	7'-0"	63 1/2"	33 1/2"	24"	6 1/2"	24"	.42
60"	6"	0.174	5"	2'-0"	5'-0"	3'-3"	6'-3"	6'-0"	72 1/2"	36 1/2"	24"	6 1/2"	24"	.44
66"	6 1/2"	0.174	5 1/2"	2'-0"	6'-0"	1'-9"	6'-3"	6'-0"	72 1/2"	36 1/2"	24"	7 1/2"	24"	.47
72"	7"	0.174	6"	2'-0"	6'-0"	1'-9"	6'-3"	7'-0"	77 1/2"	38 1/2"	24"	7 1/2"	24"	.50

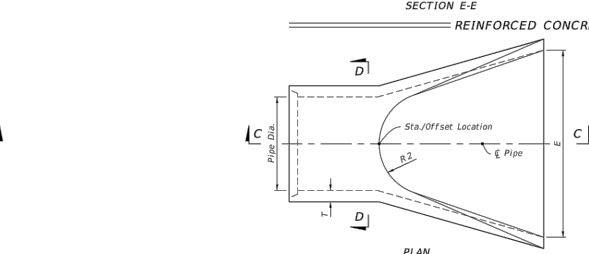


REINFORCED CONCRETE JACKET DETAIL

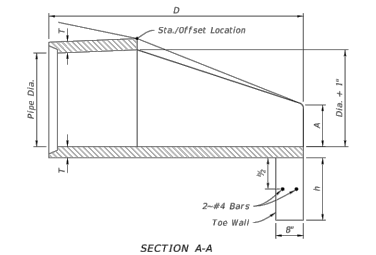
- NOTES:
- Use a wire mesh with 0.126 square inches of steel area per linear foot, both directions. Use wire spaced 2" minimum to 6" maximum on centers.
 - Concrete pipe shown, other pipe material similar.



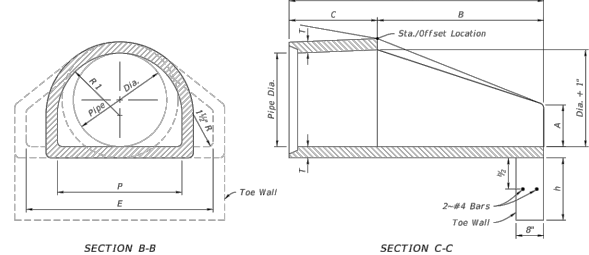
STRAIGHT FLARE



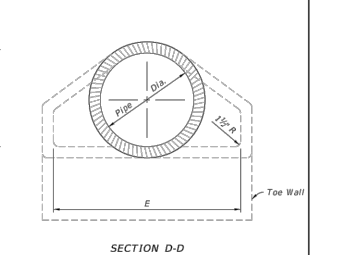
OPTIONAL SHAPE



SECTION A-A



SECTION B-B



SECTION C-C

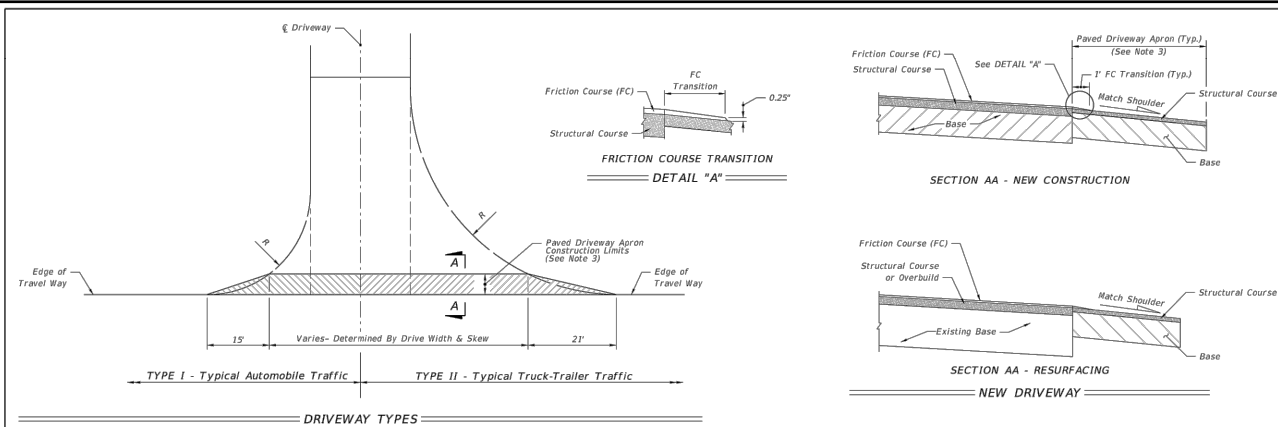


SECTION D-D

LAST REVISION	DESCRIPTION	FY 2023-24	FLARED END SECTION	INDEX	SHEET
11/01/21		STANDARD PLANS		430-020	2 of 2

NOTE: FOR ADDITIONAL PIPE AND STRUCTURE DETAILS REFER TO FDOT INDEX: 425-001 430-001 430-020

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			MISCELLANEOUS DETAILS	SHEET NO. 73
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
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AREAS FOR ONE 5' DEEP DRIVEWAY APRON (SY)

Drive Width (ft.)	Intersection			
	Normal		Skewed	
	Type I	Type II	Type I	Type II
12	26	51	31	60
14	27	52	33	61
16	28	53	34	62
18	29	54	35	64
20	31	55	37	65
22	32	56	38	67
24	33	57	39	68
26	34	58	40	69
28	35	59	42	70
30	36	61	43	72
32	37	62	44	73
34	38	63	46	74
36	39	64	47	76
38	41	65	48	77
40	42	66	49	78
42	43	67	51	79
44	44	68	52	81
46	45	69	53	82
48	46	71	55	83
50	47	72	56	85
52	48	73	57	86
54	49	74	58	87
56	51	75	60	88
58	52	76	61	90
60	53	77	62	91

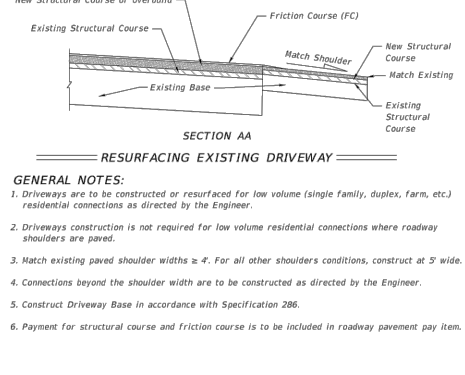
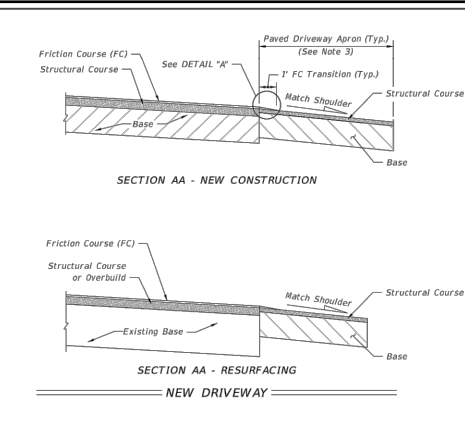
MATERIAL TYPES AND THICKNESSES FOR PAVED CONNECTIONS

Course	Materials	Minimum Thickness (in.)	
		Connections	Roadway*
Structural	Asphaltic Concrete	1 1/2"	1 1/2"
Bases	Optional Base (See Specification 285)	O.B.G. 2	O.B.G. 3

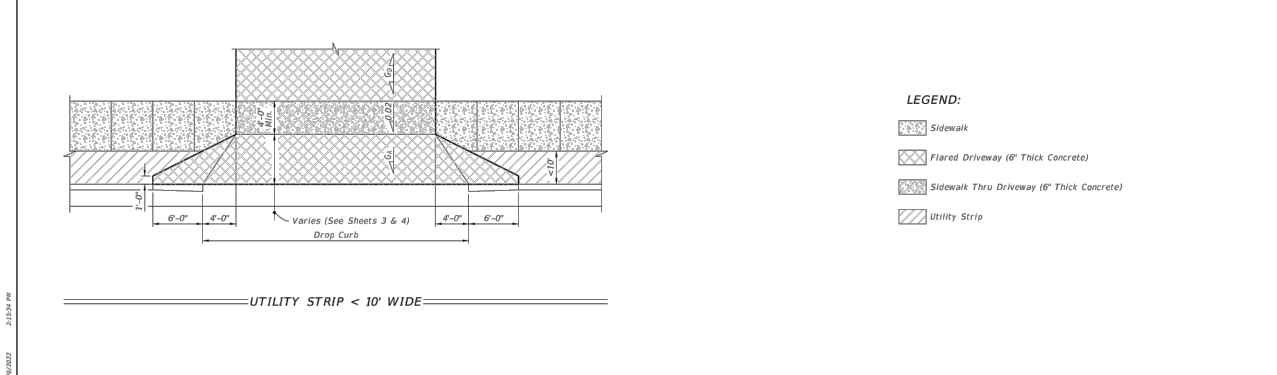
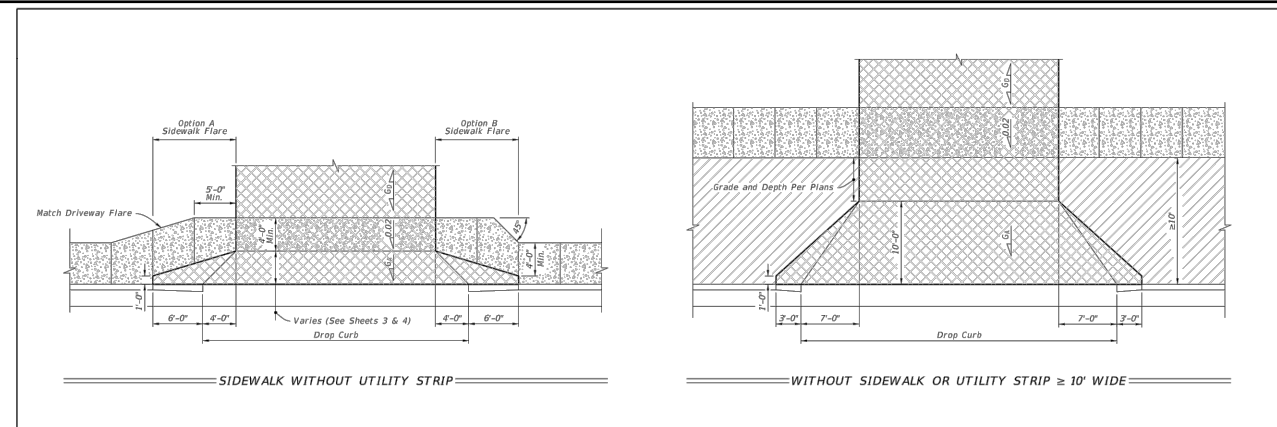
* Travel way flares (bypass lanes), auxiliary lanes serving more than a single connection, and all median crossovers including their auxiliary lanes and/or transition tapers.

NOTES:

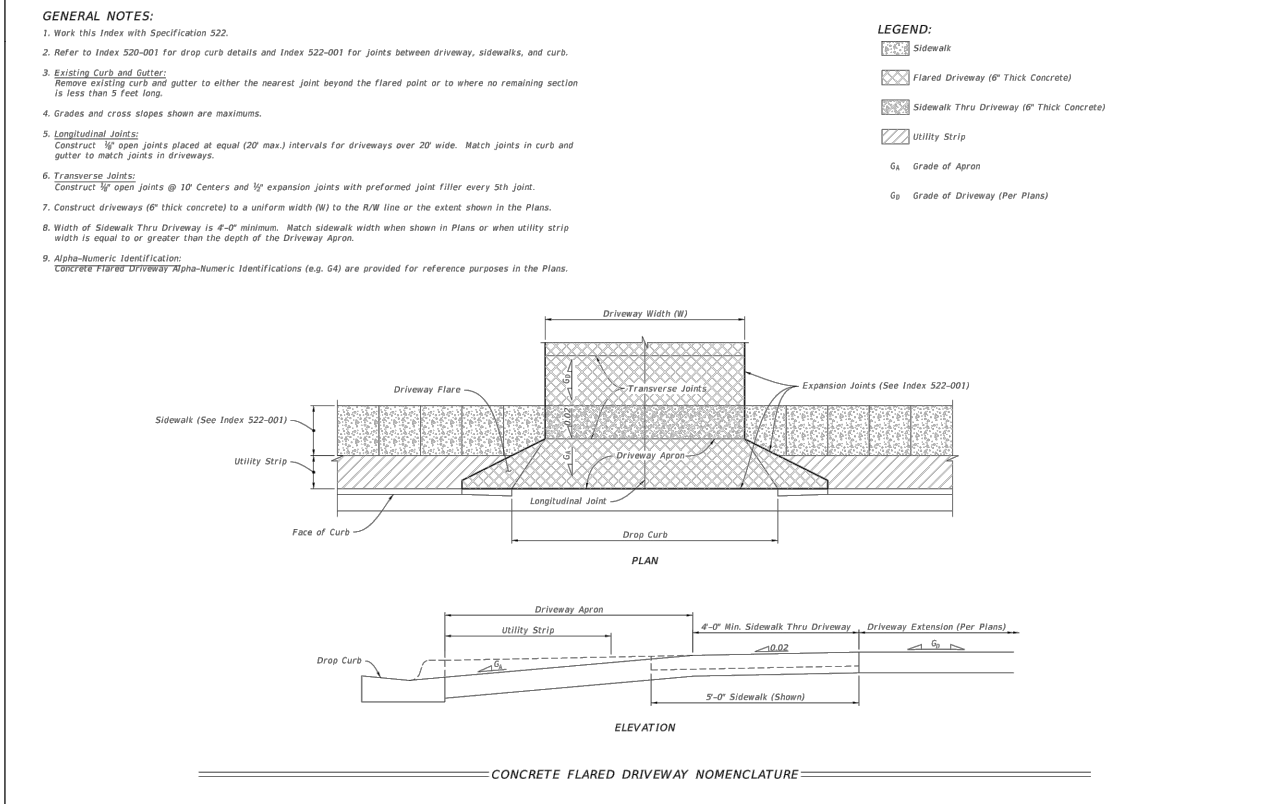
- Use same material for driveway structural course and roadway overbuild or structural course, except as approved by the Engineer for graded connections. Other Department-approved equivalent pavements may be used at the discretion of the Engineer.
- Auxiliary lanes and their transition tapers shall be the same structure as the abutting travel way pavement thickness or any of the roadway structures tabulated above, whichever is thicker.
- If an asphalt base course is used for a driveway, its thickness may be increased to match the edge of travel way pavement thickness in lieu of a separate structural course. 6" of Portland cement concrete will be acceptable in lieu of the asphalt base and structural courses. See notes 4 and 5 below.
- A structural course is required for flexible pavements when they are used for auxiliary lanes serving more than a single connection.
- Use Class NS concrete at least 6" thick for driveways paved with Portland Cement Concrete. Construct in accordance with Specifications 347, 350, and 522.
- The Department may require other pavement criteria where local conditions warrant.



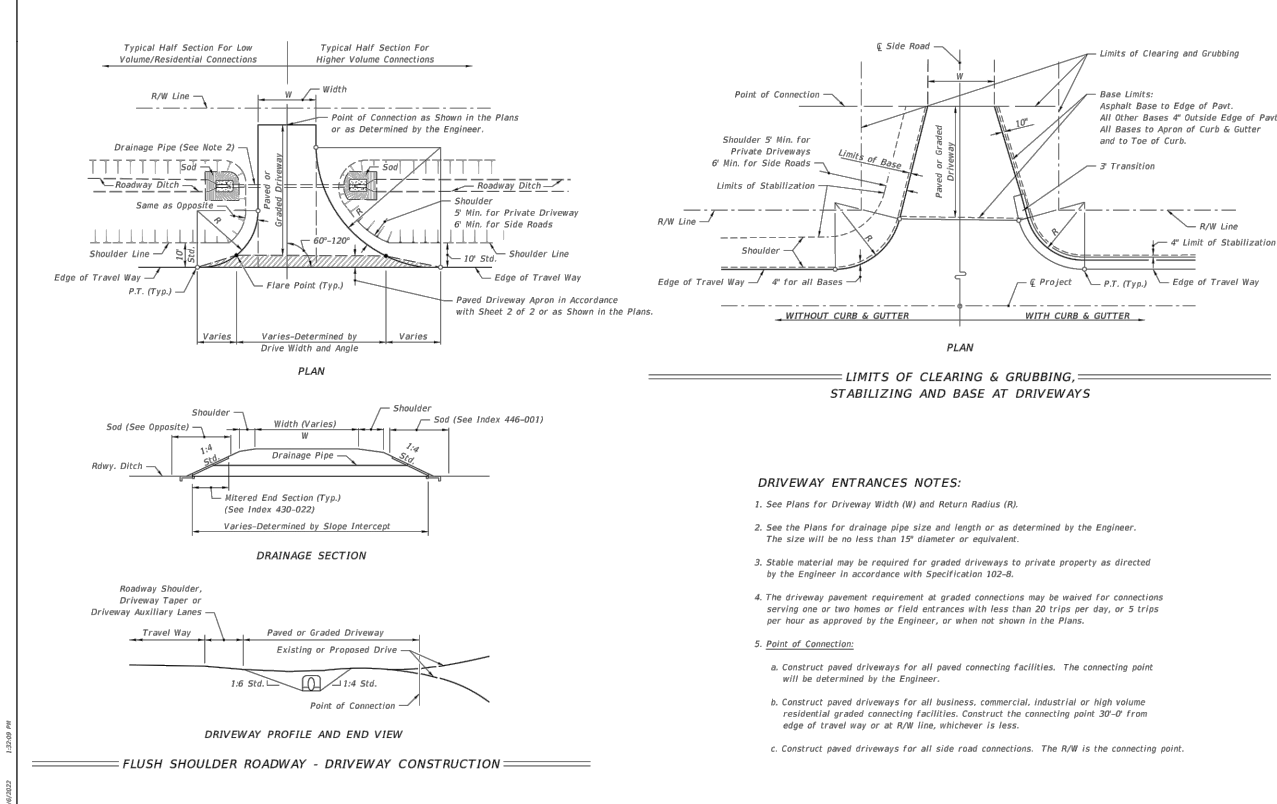
LAST REVISION 11/01/18 DESCRIPTION: **FY 2023-24 STANDARD PLANS** INDEX 330-001 SHEET 2 of 2



LAST REVISION 11/01/18 DESCRIPTION: **FY 2023-24 STANDARD PLANS** INDEX 522-003 SHEET 2 of 4



LAST REVISION 11/01/18 DESCRIPTION: **FY 2023-24 STANDARD PLANS** INDEX 522-003 SHEET 1 of 4

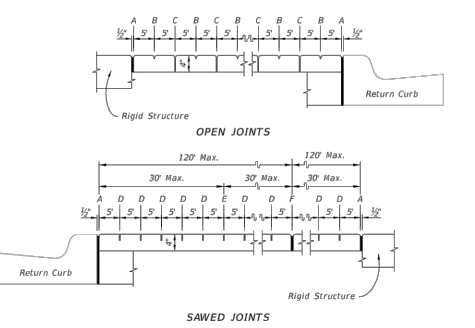


LAST REVISION 11/01/18 DESCRIPTION: **FY 2023-24 STANDARD PLANS** INDEX 330-001 SHEET 1 of 2

NOTE: DRIVEWAYS SHALL BE RESTORED IN ACCORDANCE WITH FDOT INDEXES: 330-001 522-003 REFER TO SUMMARY OF DRIVEWAYS TABLE FOR ADDITIONAL INFORMATION. RESTORED DRIVEWAYS SHALL MATCH EXISTING GRADE.

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			SHEET NO. 74
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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- GENERAL NOTES:**
1. Construct sidewalks in accordance with Specification 522. Use 6" concrete for sidewalks and curb ramps located within curb returns (See Plan View). Install all other concrete with thickness as shown, unless otherwise detailed in the Plans.
 2. Include detectable warnings on sidewalk curb ramps in accordance with Index 522-002.
 3. For Driveways see Index 522-003.
 4. Bond breaker material can be any impermeable coated or sheet membrane or preformed material having a thickness of not less than 6 mils and not more than 1/2".
 5. Construct sidewalks with Edge Beam through the limits of any surface mounted Pedestrian/Bicycle Railing or Pipe Gullerail shown in the plans. (See RAILING DETAIL)

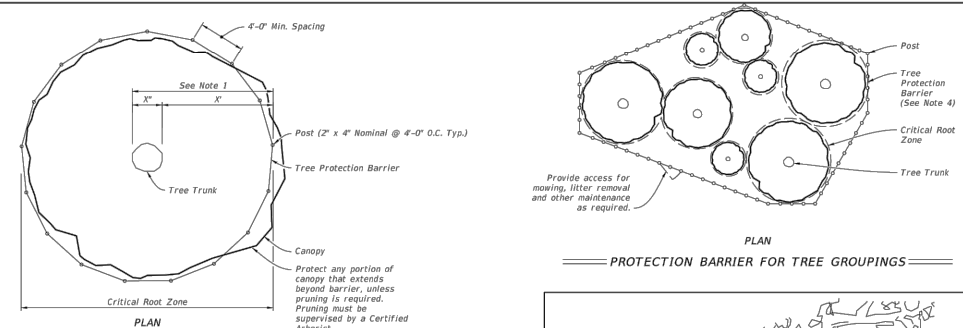


- LEGEND:**
- A- 1/2" Expansion Joints (Preformed Joint Filler) between the sidewalk and driveways, sidewalk-intersections, and all other fixed objects (e.g. drainage inlets and utility poles).
 - B- 1/2" Dummy Joints, Tooled
 - C- 1/2" Formed Open Joints
 - D- 3/4" Saw Cut Joints, 1 1/2" Deep (within 96 hours) Max. 3' Centers
 - E- 3/4" Saw Cut Joints, 1 1/2" Deep (within 12 hours) Max. 30' Centers (and/or) Requires When Length Exceeds 30'
 - F- 1/2" Expansion Joint When Run Of Sidewalk Exceeds 120'. Intermediate locations when called for in the plans or at locations as directed by the Engineer.
 - G- Cold Joint With Bond Breaker, Tooled

GENERAL NOTES AND CONCRETE SIDEWALK ON CURBED ROADWAYS

LAST REVISION: 11/01/18	DESCRIPTION:	FY 2023-24 STANDARD PLANS	CONCRETE SIDEWALK	INDEX: 522-001	SHEET: 1 of 2
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- NOTES:**
1. Critical Root Zone: Extends in all directions from trunk of tree to a distance equal to one foot per inch of trunk diameter at breast height.
 2. Staging, storage, dumping, washing and operation of equipment is not permitted within the limits of the tree protection barrier, including during barrier installation.
 3. Install all tree protection prior to commencement of construction and remove when directed by the Engineer. Maintain protection at all times.
 4. For closely spaced groups of trees, place the tree protection barrier around the entire group.
 5. Inspect trunk protection and tree quarterly to prevent girdling. Adjust bands to allow tree growth as needed.
 6. See plans for any additional requirements or modifications within the tree protection area.
 7. Place weather resistant sign every 50' along the barrier, with 6" minimum text height and provide text in English and Spanish. Sign should read "Keep Out Tree Protection Area".
 8. Alternate tree protection systems approved by the Engineer may be used in lieu of the tree protection barrier detailed on this index as long as the critical root zone is protected.
 9. The Critical Root Zone may be reduced, in the field, by a certified Arborist or Landscape Architect.



- NOTES:**
1. Trunk protection may be used when Tree Protection Barrier can not be reasonably erected, when approved by Engineer.
 2. See Selective Clearing and Grubbing Plan for location of trunk protection, when applicable.
 3. Adjust bands to allow tree growth (inspect quarterly) to prevent girdling.

LAST REVISION: 11/01/18	DESCRIPTION:	FY 2023-24 STANDARD PLANS	TREE PROTECTION AND PRESERVATION	INDEX: 110-100	SHEET: 1 of 1
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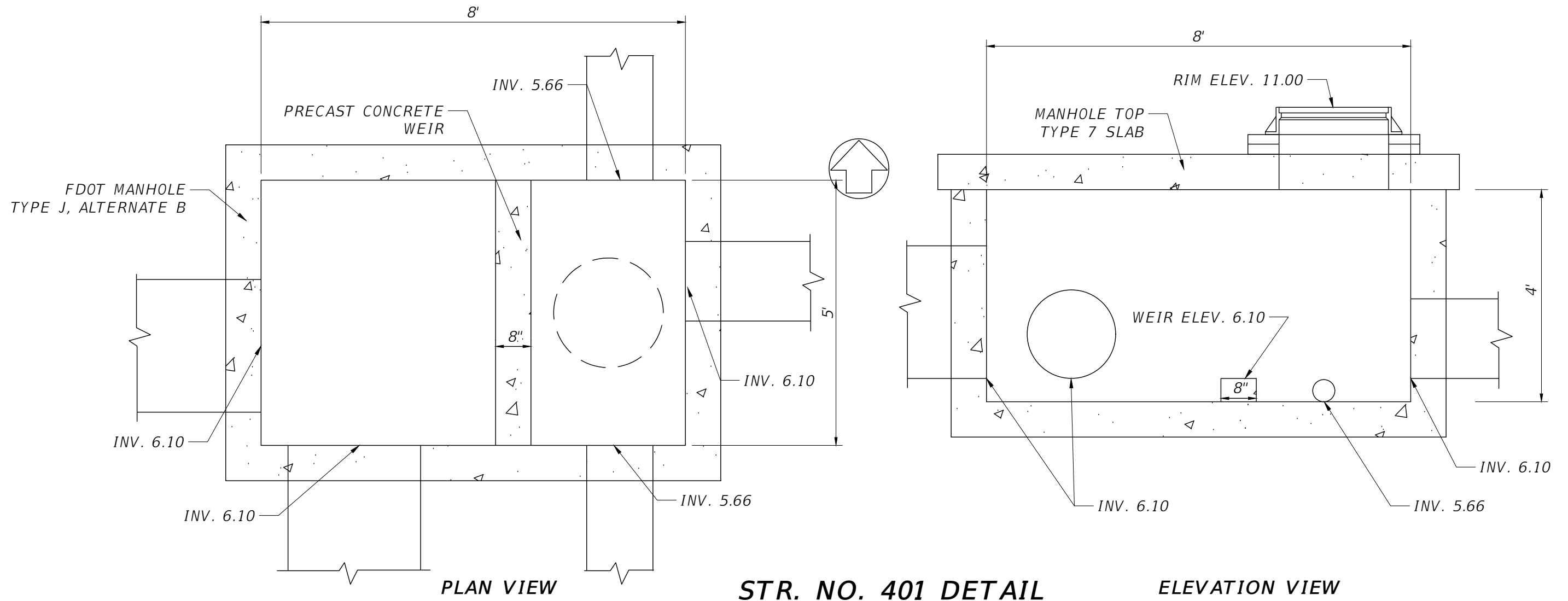
GENERAL NOTES:

1. The location and construction of mailboxes shall conform to the rules and regulations of the United States Postal Service as modified by this Index.
2. Mailboxes will not be permitted on Interstate highways, freeways, or other highways where prohibited by law or regulation.
3. The contractor shall give the Postmaster of the delivery route(s) written notice of project construction 7 days prior to the beginning of work, with Saturdays, Sundays and Holidays excluded.
The Contractor shall furnish and install one mailbox in accordance with this Index at each mail patron delivery location and maintain the box throughout the contract period. The Contractor shall apply box numbers to each patron box in accordance with identification specifications of the Domestic Mail Manual of the U. S. Postal Service; where local street names and house numbers are authorized by the Postmaster as a postal address, the Contractor shall inscribe the house number on the box. If the box is located on a different street from the patrons residence, the Contractor shall inscribe the street name and house number on the box.
The Contractor shall coordinate removal of the patrons existing mailboxes. Immediately after installing the new mailboxes the Contractor must notify each "Mail Delivery Patron" by Certified Mail that removal of the existing mailboxes must be accomplished in 21 days after receipt of notices. Patrons shall have the option of removing their existing mailboxes or leaving the mailboxes in place for removal by the Contractor; removal by the Contractor shall be included in the contract unit price for Mailboxes. Each. The Contractor shall dispose of mailboxes and supports in areas provided by him.
Reuse of existing mailboxes by the Contractor will not be a requirement under any construction project; however where an existing mailbox meets the design requirements of this Index and is structurally and functionally sound, the Contractor at his option may elect to reuse the existing mailbox in lieu of constructing a new mailbox. Any use of existing mailboxes must be approved by the Engineer.
4. Mailboxes shall be light sheet metal or plastic construction, in traditional style only, and only in Size 1 as prescribed by the Domestic Mail Manual of the U. S. Postal Service (DMH). Mailbox production standards, lists of approved manufacturers and suppliers of mailboxes, design approval and guidance may be obtained by writing to the Rural Delivery Division, Delivery Service Department, Operations Group, USPS Headquarters, Washington, DC 20260.
5. Mailboxes shall be located on the right-hand side of the roadway in the direction of the delivery route, except on one-way roads and streets where they may be placed on the left-hand side.
Mailboxes on rural highways shall be set with the roadside face of the box offset from the edge of the traveled way a minimum distance of the greater of the following:
a. Shoulder width plus 8" to 12"
b. 10' for ADT over 10,000 vpd
8' for ADT 100 to 10,000 vpd
6' for ADT under 100 vpd
2'-6" for low speed and ADT under 100 vpd
When a mailbox is installed within the limits of guardrail it should be placed behind the guardrail whenever practical.
Mailboxes on curbed highways, roads, and streets shall be set with the face of the box between 6" and 12" behind the face of curb. If the sidewalk abuts the curb or if an unusual condition exists which makes it difficult or impractical to install or serve boxes at the curb, the Contractor, with concurrence of the local postal authority, may be permitted to install all mailboxes at the back edge of the sidewalk, where they can be served by the carrier from the sidewalk.
6. Mailboxes shall be set with the bottom of the box between 42" and 48" above the mail stop surface, unless the U.S. Postal Service establishes other height restrictions.
7. No more than two mailboxes may be mounted on a support structure unless the support structure and mailbox arrangements have been shown to be safe by crash testing in accordance with NCHRP Report 350.
Neighborhood Delivery and Collection Box Units (NDCBU) are a specialized multiple mailbox installation that must be located outside the highway and street clear zones. The location of NDCBUs is the sole responsibility of the Postmaster for the delivery route under consideration.
8. Lightweight newspaper receptacles may be mounted below the mailbox on the side of the support post in conformance with the USPS Domestic Mail Manual. The mail patron shall be responsible for newspaper receptacle installation and maintenance.
9. Wood and steel support posts for both single and double mailbox mountings shall be embedded no more than 24" into the ground.
Concrete, block, brick, stone or other rigid foundation structure or encasement, either above or below the shoulder ground line, will not be permitted for mailboxes on rural highways. On urban roads and streets where mailbox support posts are set within rigid pavement back of curb, the support posts shall be separated from the pavement by a minimum of 1" of expansion material.
Support posts shall not be fitted nor installed with surface mount base plates.
10. At driveway entrances mailboxes shall be placed on the far side of the driveway in the direction of the delivery route.
At intersecting roads mailboxes shall be located 100' or more from the centerline of the intersecting road on the far side in the direction of the delivery route, with the distance increased to 200' when the route volume exceeds 400 vehicles per day.
11. Wood support posts shall be in conformance with the material and dimensional requirements of Specification 952 and the treatment requirements of Specification 955.
Steel support posts shall have an external finish equal to or better than two coats of weather resistant, air dried or baked, paint or enamel. Surfaces shall be cleaned of all loose scale prior to finishing. The Postal Service prefers that posts be painted white, but other colors may be used when approved by the Engineer. When galvanized posts are used painting is not required.
Mounting brackets, plates, platforms, shelves and accessory hardware surface finishes are to be suited to support post finish.
12. Mailboxes shall be paid for under the contract unit price for Mailboxes. Each. Payment shall be full compensation for boxes, posts and accessory items essential for installation in accordance with this standard; erection, adjustments to suit construction needs; and, for identification letters and numbers.
Payment shall be limited to one mailbox per patron address whether the mailbox is new, reused, salvaged, reset or relocated. Payment shall be per mailbox regardless of the number of mailboxes per support or grouping arrangement.
The above compensation shall include any work and cost incurred by the contractor for removal and disposal of existing mailboxes.
There shall be no payment participation for NDCBU furnishing, assembly, installation, resetting or relocation.

LAST REVISION: 11/01/17	DESCRIPTION:	FY 2023-24 STANDARD PLANS	MAILBOXES	INDEX: 110-200	SHEET: 1 of 3
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NOTE: FOR ADDITIONAL MAILBOX AND TREE PROTECTION DETAILS REFER TO FDOT INDEX: 110-100, 110-200. SIDEWALKS SHALL BE RESTORED IN ACCORDANCE WITH FDOT INDEX 522-001. RESTORED SIDEWALKS SHALL MATCH EXISTING GRADE.

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			SHEET NO. 75
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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NOTES:

1. THE COST OF THE PRECAST CONCRETE WEIR SHALL BE INCLUDED IN THE COST OF THE STRUCTURE.
2. THE PRECAST STRUCTURE SUPPLIER SHALL BE RESPONSIBLE FOR STRUCTURAL DESIGN OF THE WEIR AND STRUCTURE. THE SUPPLIER SHALL SUBMIT, THROUGH THE CONTRACTOR, SHOP DRAWINGS TO ENGINEER OF RECORD FOR APPROVAL.
3. FOR ADDITIONAL MANHOLE DETAILS, REFER TO FDOT INDEX: 425-001
425-010

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			MISCELLANEOUS DETAILS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		76
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EROSION CONTROL NOTES:

1. EROSION/TURBIDITY BARRIERS MUST BE INSTALLED AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SEDIMENT OR SUSPENDED SOLIDS TO ADJACENT PROPERTIES, JURISDICTIONAL WETLANDS AND/OR RECEIVING WATERBODIES EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST REMAIN IN PLACE AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND SOILS ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED. THEREAFTER THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF THE BARRIERS. MAINTAIN THE EROSION/TURBIDITY BARRIERS DAILY. THE CONTRACTOR IS TOTALLY RESPONSIBLE FOR PROVIDING THE NECESSARY EROSION/TURBIDITY CONTROL FOR THIS PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY PENALTIES IMPOSED BY THE PERMITTING AGENCIES FOR ANY EROSION, SHOALING, OR WATER QUALITY PROBLEMS RESULTANT TO CONSTRUCTION ACTIVITIES.
2. CORRECT ANY EROSION SHOALING OR WATER QUALITY PROBLEMS THAT RESULT FROM CONSTRUCTION ACTIVITIES. USE APPROPRIATE BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL.
3. ENSURE THAT SEDIMENTATION AND/OR TURBIDITY PROBLEMS ARE NOT CREATED IN ANY WATER BODIES.
4. IMPLEMENT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED TO RETAIN SEDIMENT ON-SITE AND TO PREVENT VIOLATIONS OF THE WATER QUALITY CRITERIA AND STANDARDS IN CHAPTERS 17-4, 17-302, F.A.C. ALL EROSION/SEDIMENT CONTROL PRACTICES MUST BE IN ACCORDANCE WITH THE GUIDELINES AND SPECIFICATIONS IN SECTION 6 OF THE FLORIDA LAND DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT (FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION 1988). UNLESS A PROJECT-SPECIFIC EROSION AND SEDIMENT CONTROL PLAN IS APPROVED BY THE WATER MANAGEMENT DISTRICT IN WHICH CASE THE PRACTICES MUST BE IN ACCORDANCE WITH THE PLAN. IF SITE SPECIFIC CONDITIONS REQUIRE ADDITIONAL MEASURES DURING ANY PHASE OF CONSTRUCTION OR OPERATION TO PREVENT EROSION OR CONTROL SEDIMENT, THE CONTRACTOR MUST IMPLEMENT THE NECESSARY ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES.
5. STABILIZATION MEASURES SHALL BE INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED AREAS AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
6. THE LOCATION AND TYPE OF THE EROSION CONTROL MEASURES SHOWN ON THESE DRAWINGS ARE PROVIDED FOR GENERAL GUIDANCE. THE METHODS AND SEQUENCING OF CONSTRUCTION EMPLOYED BY THE CONTRACTOR MAY REQUIRE MORE OR LESS EROSION CONTROL MEASURES THAN THAT DEPICTED TO MAINTAIN ADEQUATE EROSION AND SEDIMENT CONTROL FOR THE CONSTRUCTION ACTIVITIES.
7. ALL WETLAND AREAS OR WATER BODIES THAT ARE OUTSIDE OF THE SPECIFIC LIMITS OF CONSTRUCTION MUST BE PROTECTED FROM EROSION, SILTATION, SCOURING OR EXCESS TURBIDITY, AND DEWATERING.

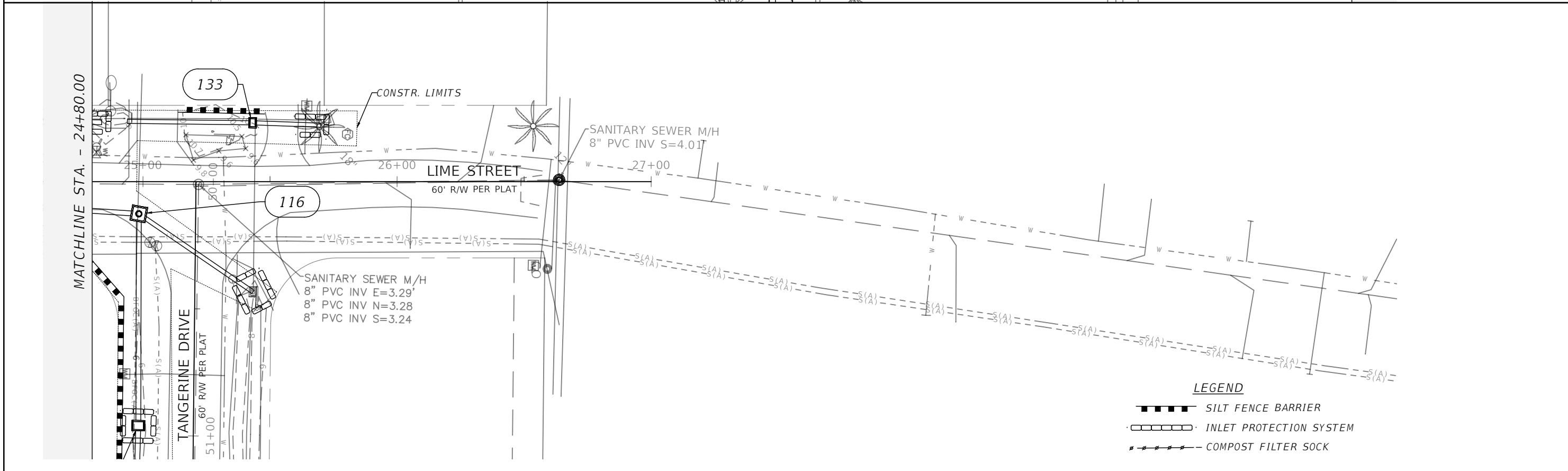
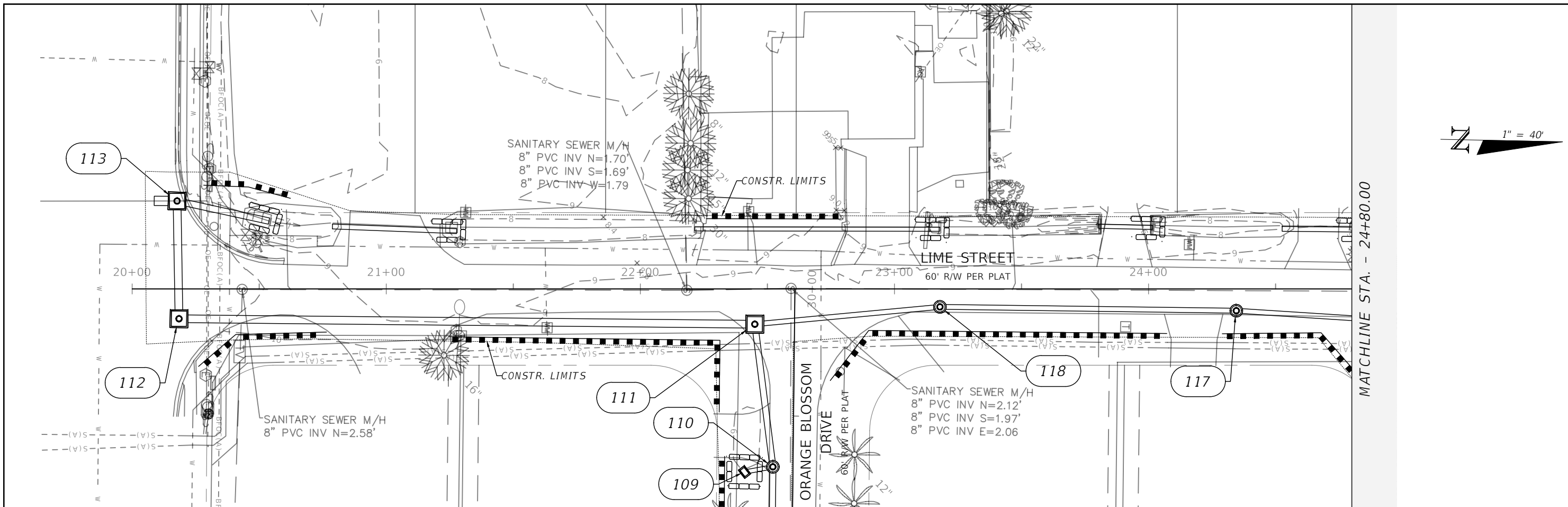
CONSTRUCTION ENTRANCE NOTES:

1. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:
 - A. WHENEVER VEHICLES ARE LEAVING A CONSTRUCTION SITE AND ENTER ONTO A PUBLIC ROAD.
 - B. AT ANY UNPAVED ENTRANCE/EXIT LOCATION WHERE THERE IS A RISK OF TRANSPORTING MUD OR SEDIMENT ONTO PAVED ROAD.
 - C. THE WIDTH SHOULD BE AT LEAST 12 FEET OR AS WIDE AS THE ENTIRE WIDTH OF THE ACCESS.
 - D. THE LENGTH SHOULD BE BETWEEN 50 TO 75 FEET IN LENGTH.
 - E. FLARE THE ENTRANCE WHERE IT MEETS THE EXISTING ROAD TO PRESERVE A TURNING RADIUS (MIN. 25' R).
 - F. RUNOFF FROM A STABILIZED CONSTRUCTION ENTRANCE SHOULD DRAIN TO A SEDIMENT TRAP OR SEDIMENT BASIN.
 - G. DUST CONTROL SHOULD BE PROVIDED IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN.
2. CONSTRUCTION SPECIFICATIONS:
 - A. CLEAR ALL VEGETATION ROOTS AND ALL OTHER OBSTRUCTIONS IN PREPARATION FOR GRADING.
 - B. PRIOR TO PLACING GEOTEXTILE (FILTER FABRIC) MAKE SURE THAT THE ENTRANCE IS PROPERLY GRADED AND COMPACTED. SEE GEOTEXTILE REQUIREMENTS.
 - C. TO REDUCE MAINTENANCE AND LOSS OF AGGREGATE PLACE GEOTEXTILE (FILTER FABRIC) OVER EXISTING GROUND BEFORE PLACING THE STONE FOR THE ENTRANCE.
 - D. STONE SHOULD BE PLACED TO A DEPTH OF 6 IN. OR GREATER FOR THE ENTIRE WIDTH AND LENGTH OF THE STABILIZED CONSTRUCTION ENTRANCE.
3. MAINTENANCE:
 - A. INSPECT ON A REGULAR BASIS AND AFTER THERE HAS BEEN A HIGH VOLUME OF TRAFFIC OR STORM EVENT.
 - B. APPLY ADDITIONAL STONE PERIODICALLY AND WHEN REPAIR IS REQUIRED.
 - C. IMMEDIATELY REMOVE SEDIMENTS OR ANY OTHER MATERIALS TRACKED ONTO THE PUBLIC ROADWAY.
 - D. ENSURE THAT ASSOCIATED SEDIMENT CONTROL MEASURES ARE IN GOOD WORKING CONDITION.

CONSTRUCTION ENTRANCE NOTES:

1. PRIOR TO INITIATING THE CONSTRUCTION ACTIVITIES:
 - A. PROVIDE SEDIMENT BARRIER AROUND THE PROJECT AREA. THE SEDIMENT BARRIER MUST BE INSTALLED STRICTLY AS PER FDOT EROSION AND SEDIMENT CONTROL MANUAL.
2. DURING CONSTRUCTION:
 - A. CHECK SEDIMENT BARRIER AND TURBIDITY BARRIER DAILY AND AFTER A RAINFALL. REINSTALL THE SEDIMENT BARRIER AND TURBIDITY BARRIER IF REQUIRED.
3. CONSTRUCTION CLOSE-OUT:
 - A. SOD ALL SLOPES AND DISTURBED AREAS IMMEDIATELY.
 - B. REMOVE SEDIMENT BARRIER AFTER ALL THE SLOPES ARE ESTABLISHED.

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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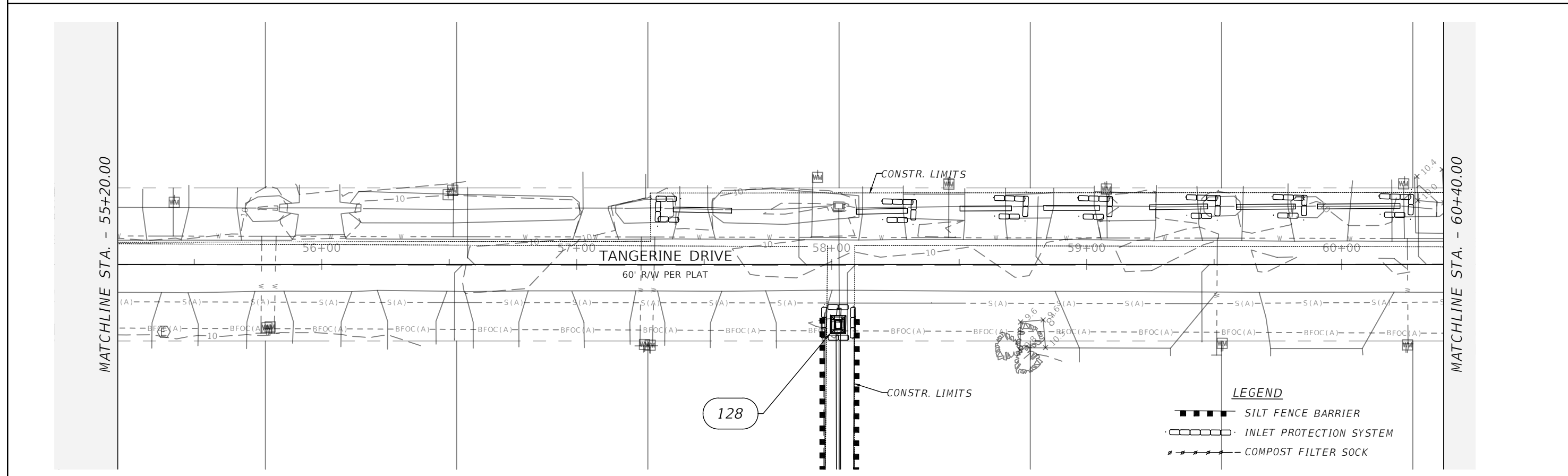
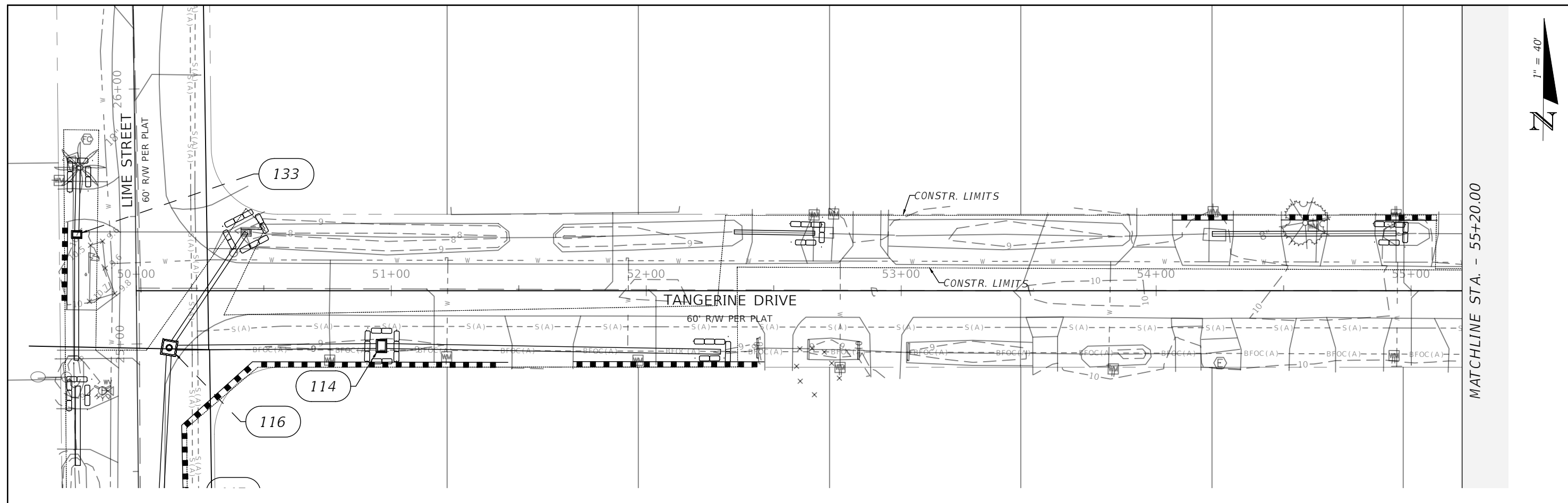
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STORM SEWER EROSION & SEDIMENT CONTROL PLAN

SHEET NO.
78



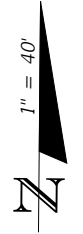
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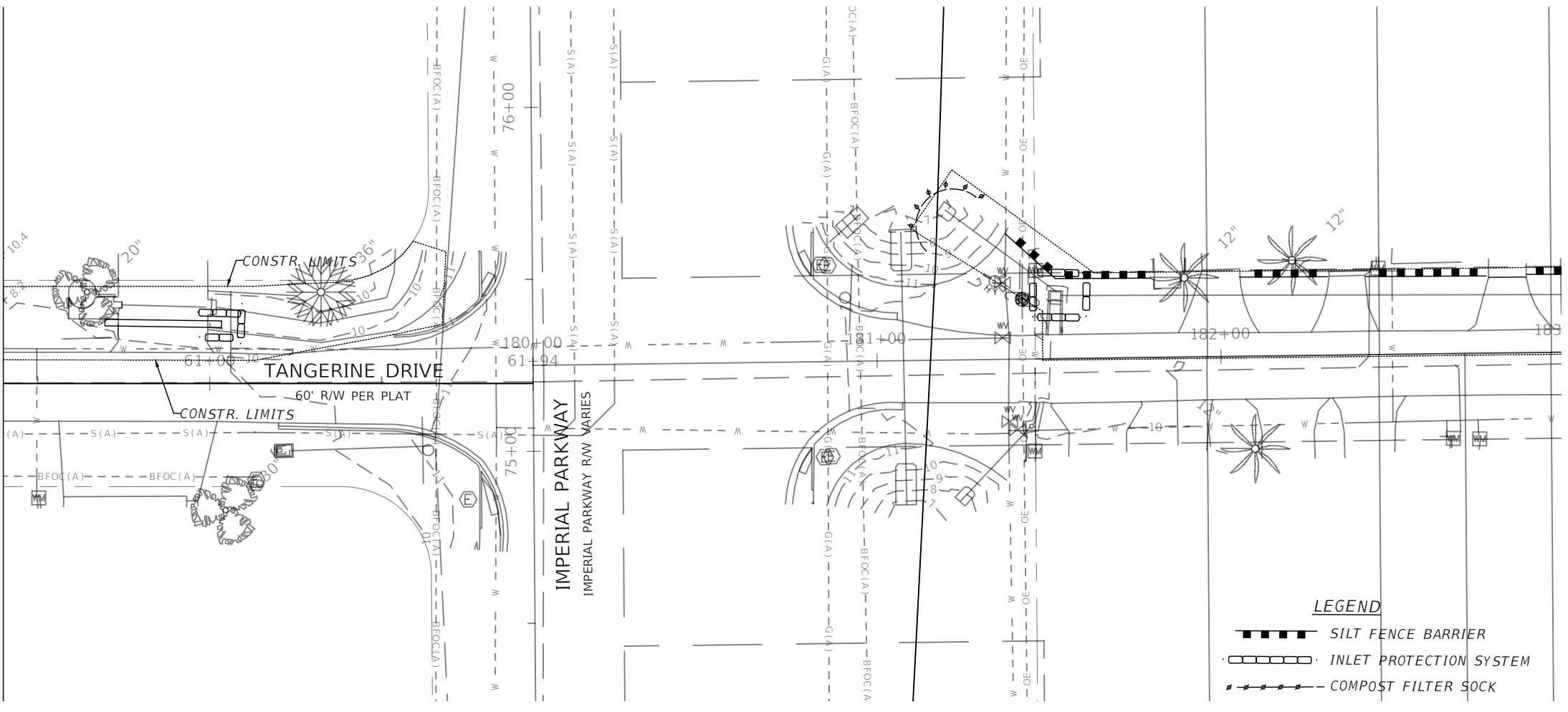
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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**STORM SEWER EROSION &
SEDIMENT CONTROL PLAN**

SHEET NO.
79



MATCHLINE STA. - 60+40.00



LEGEND

- SILT FENCE BARRIER
- INLET PROTECTION SYSTEM
- COMPOST FILTER SOCK

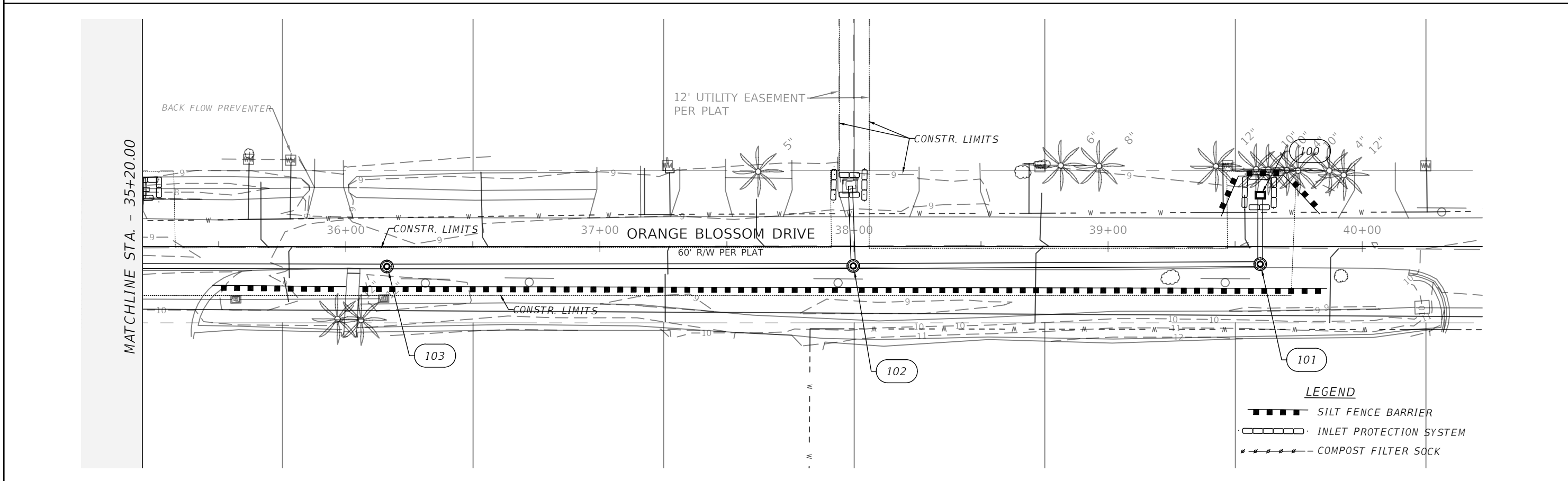
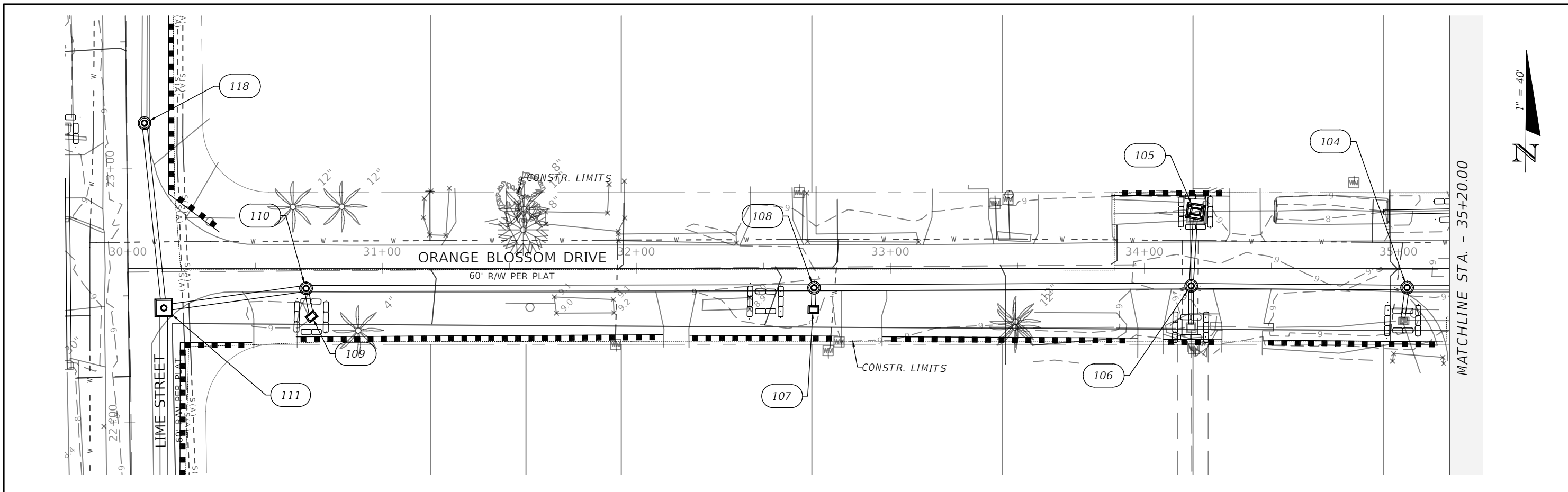
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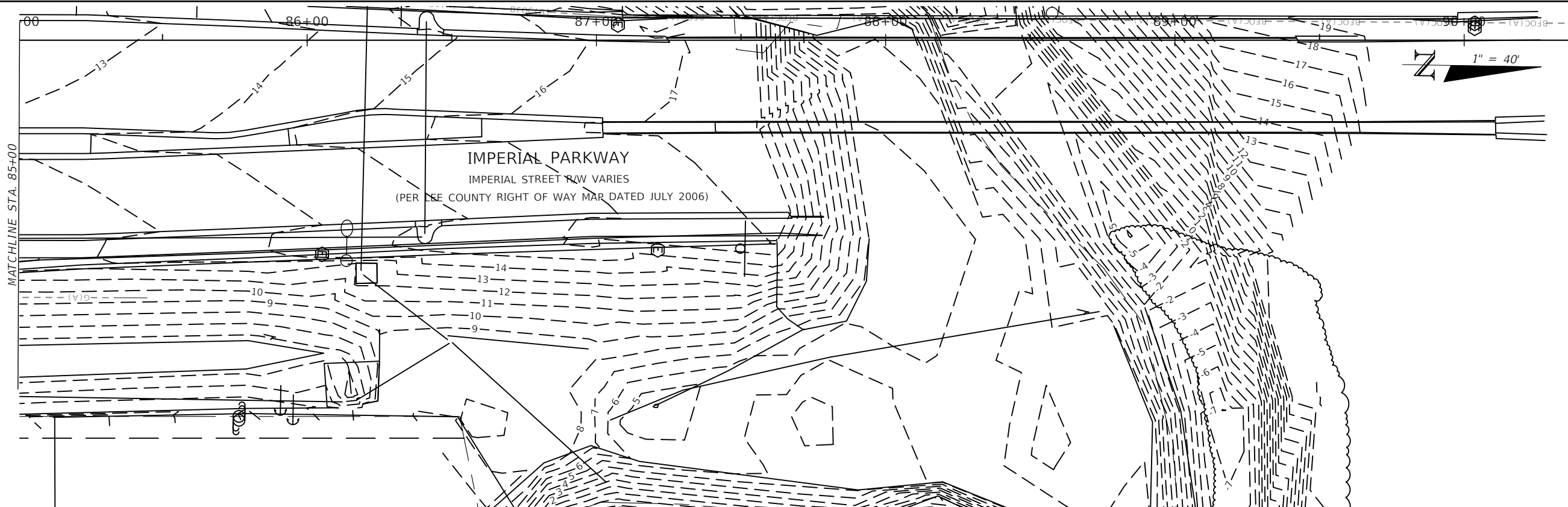
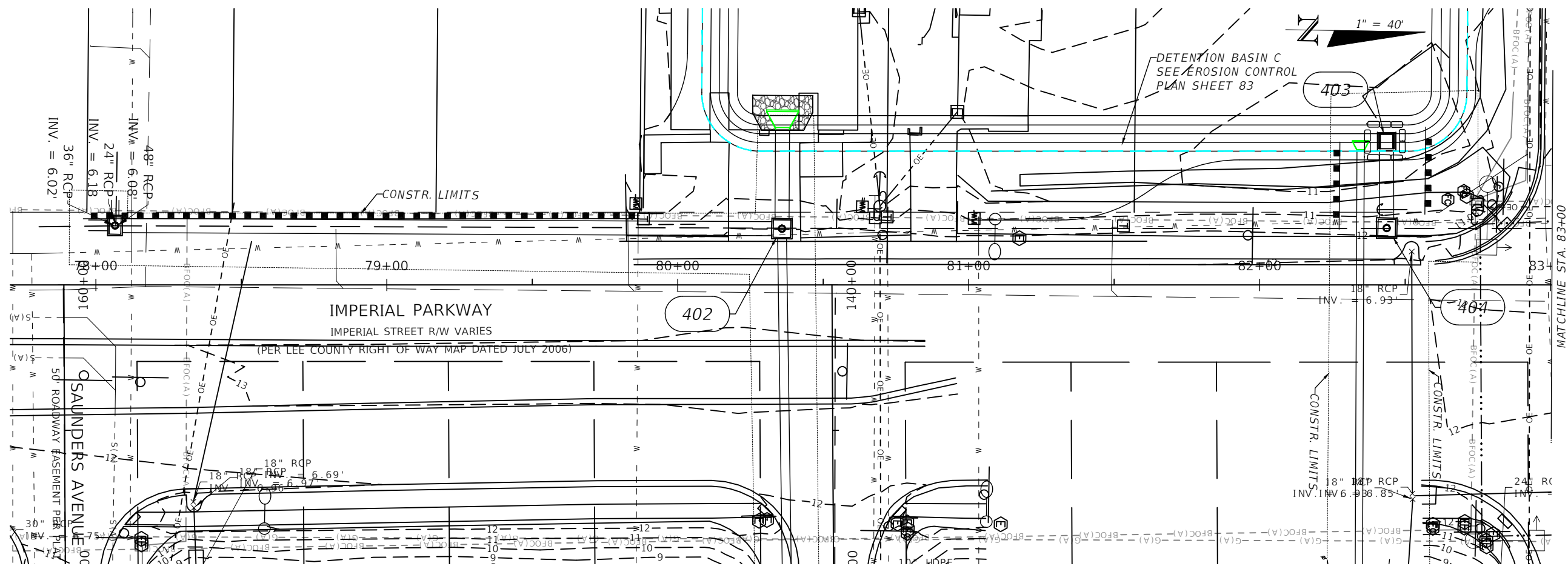
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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**STORM SEWER EROSION &
 SEDIMENT CONTROL PLAN**

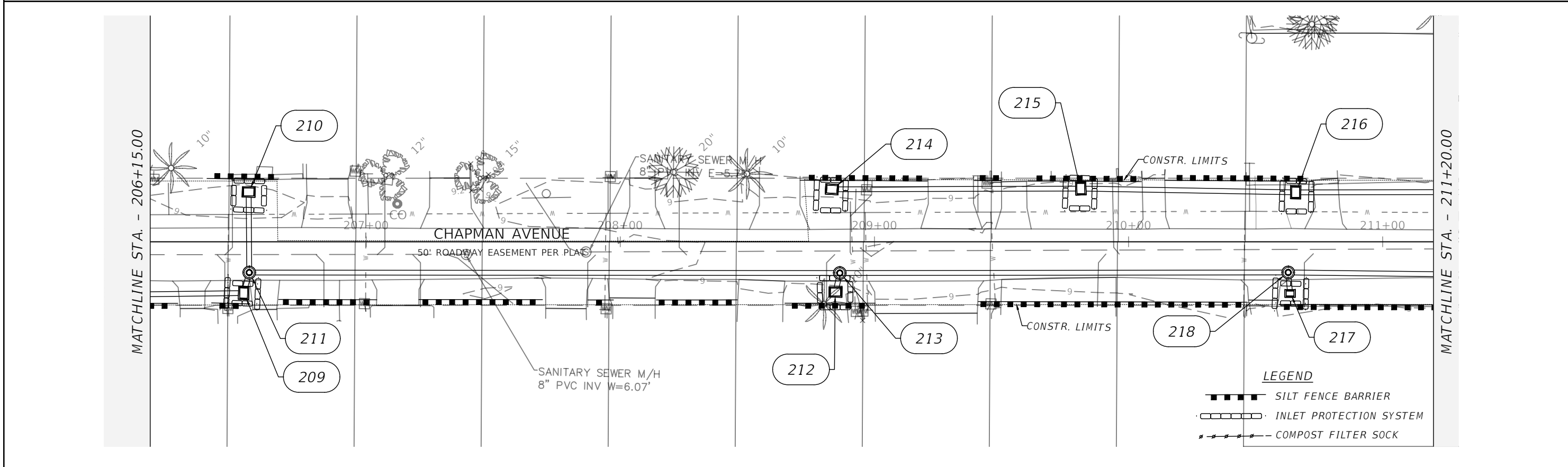
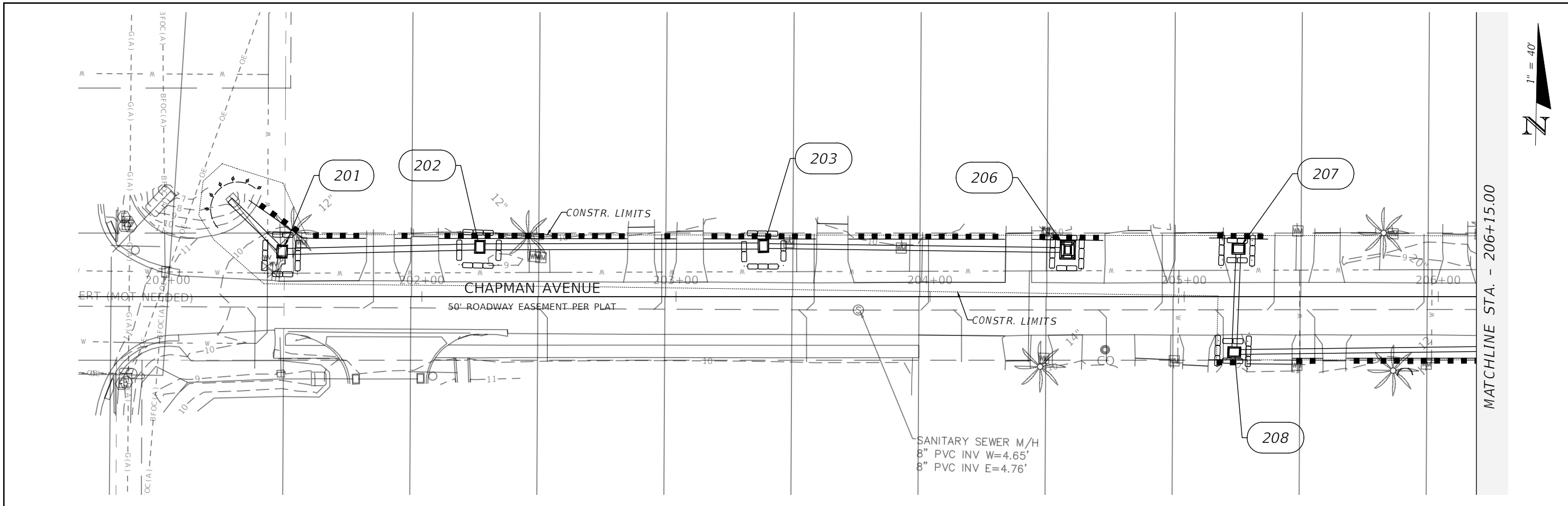
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 80



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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
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				ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



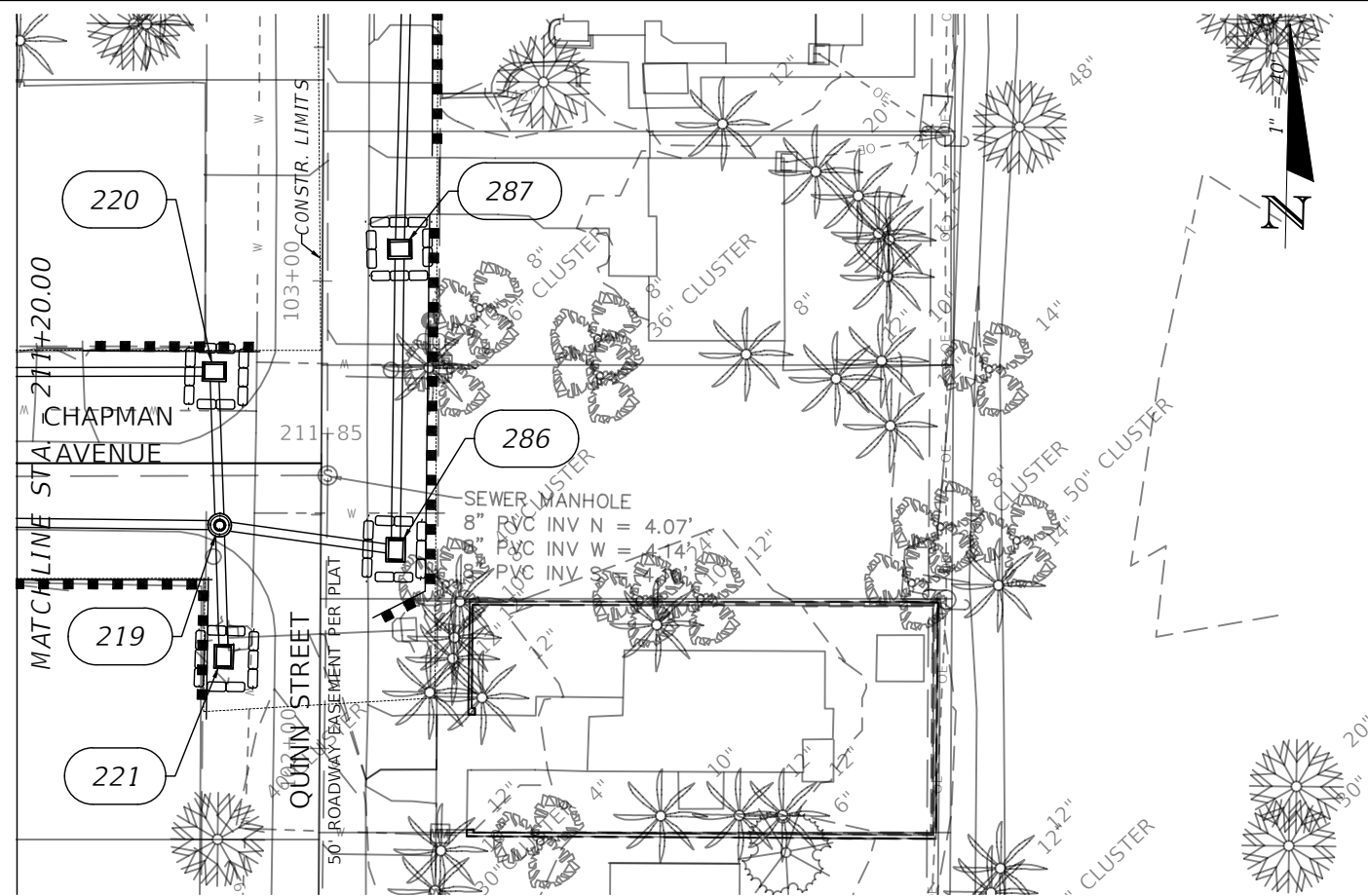
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STORM SEWER EROSION & SEDIMENT CONTROL PLAN

SHEET NO.
83



- LEGEND**
- SILT FENCE BARRIER
 - INLET PROTECTION SYSTEM
 - COMPOST FILTER SOCK

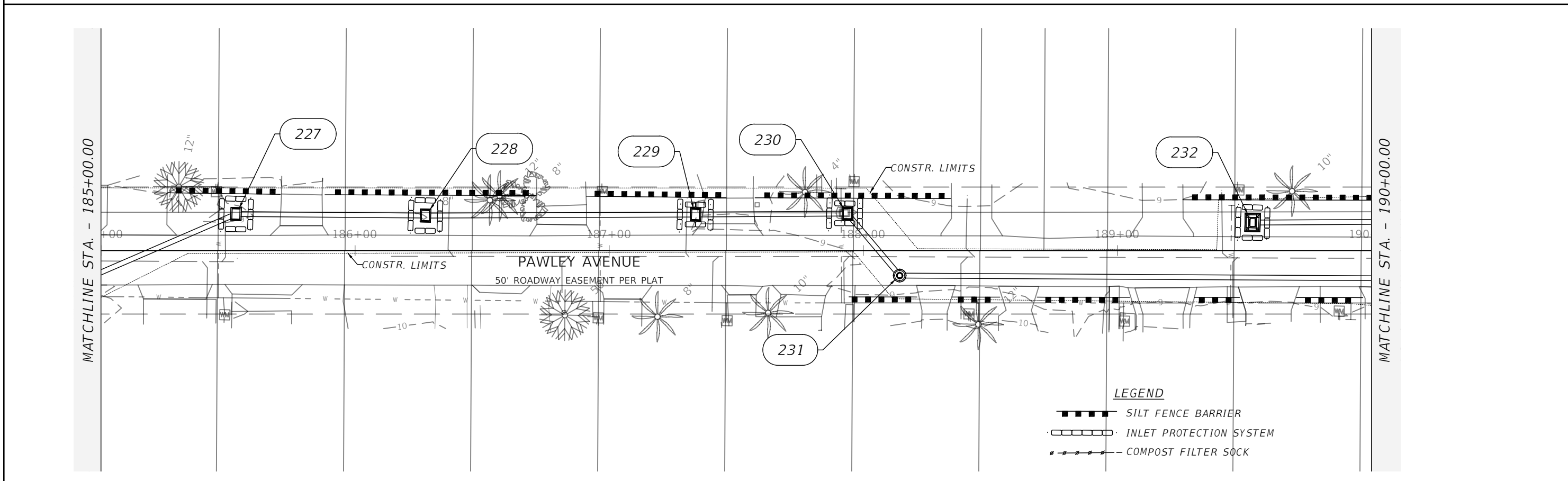
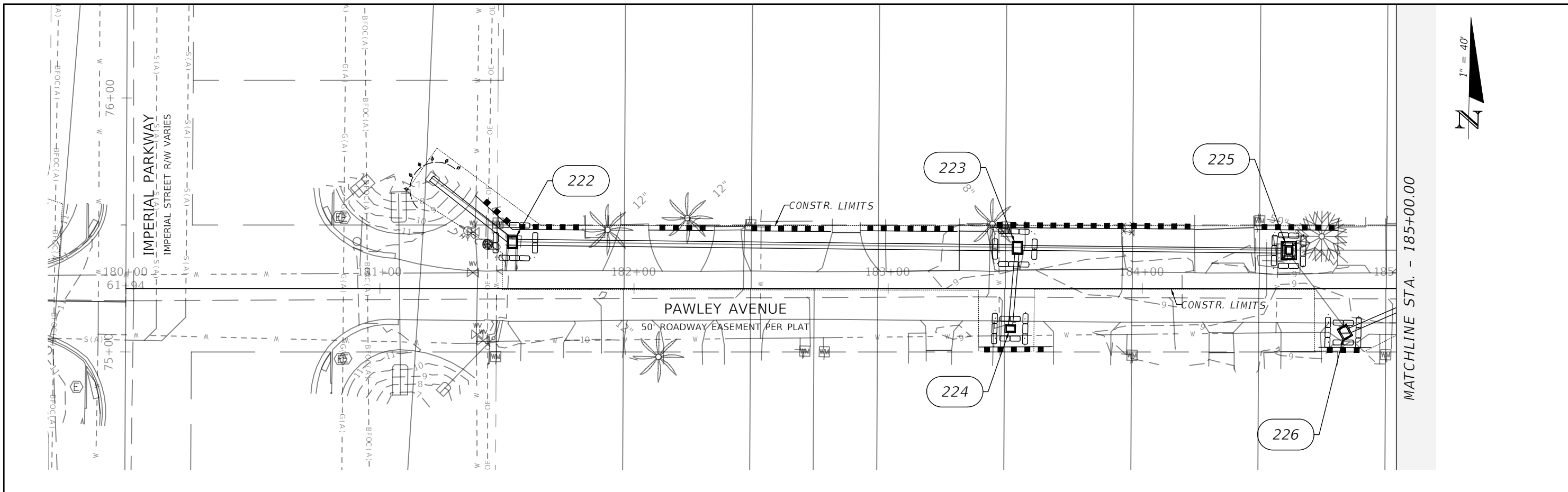
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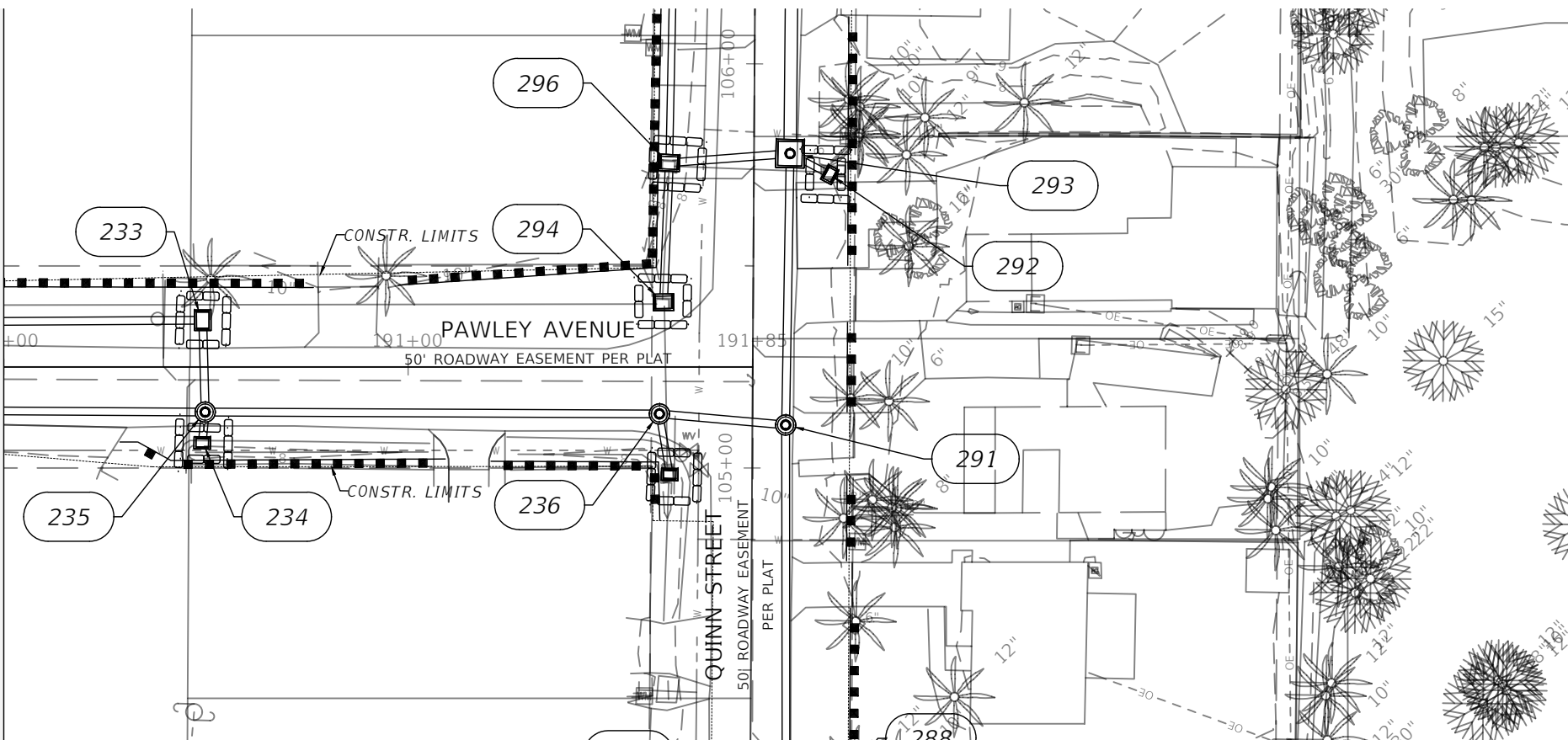
STORM SEWER EROSION & SEDIMENT CONTROL PLAN

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84



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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
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MATCHLINE STA. - 190+00.00



LEGEND

- SILT FENCE BARRIER
- INLET PROTECTION SYSTEM
- COMPOST FILTER SOCK

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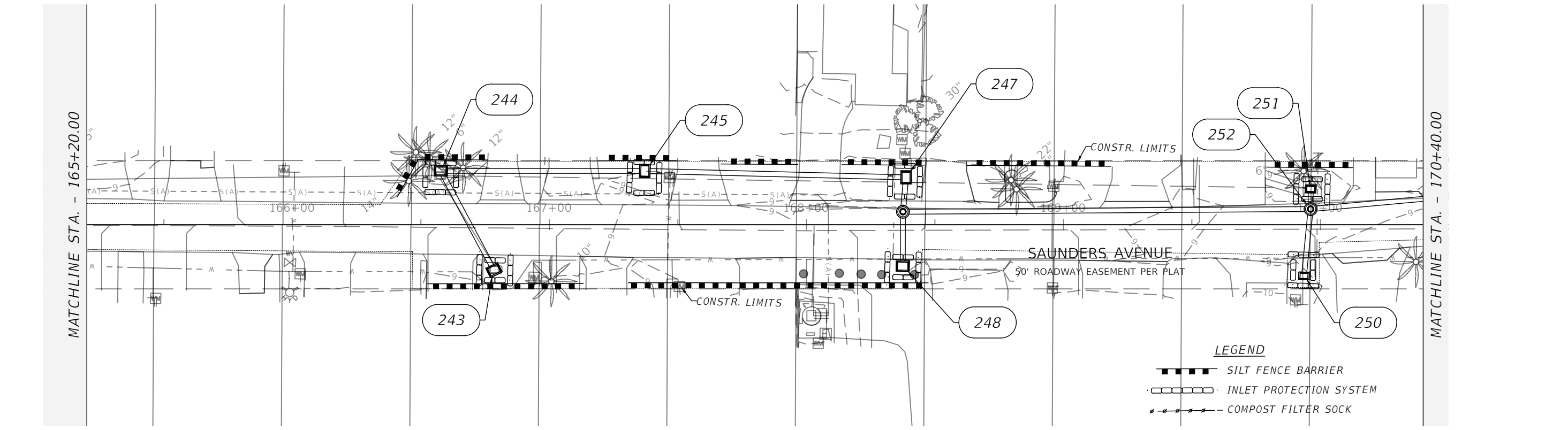
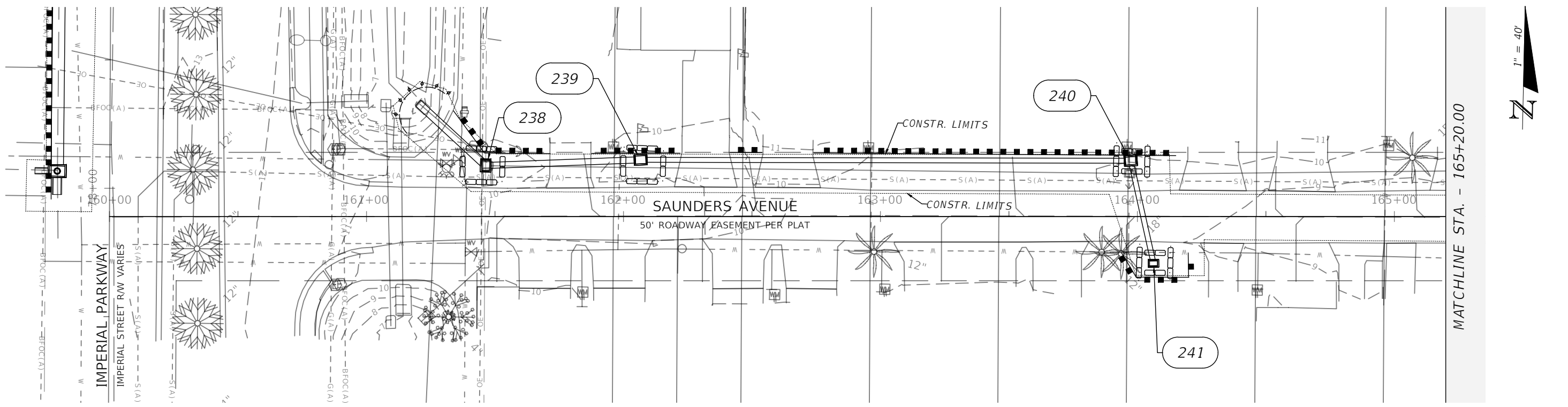
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**STORM SEWER EROSION &
SEDIMENT CONTROL PLAN**

SHEET
NO.

86



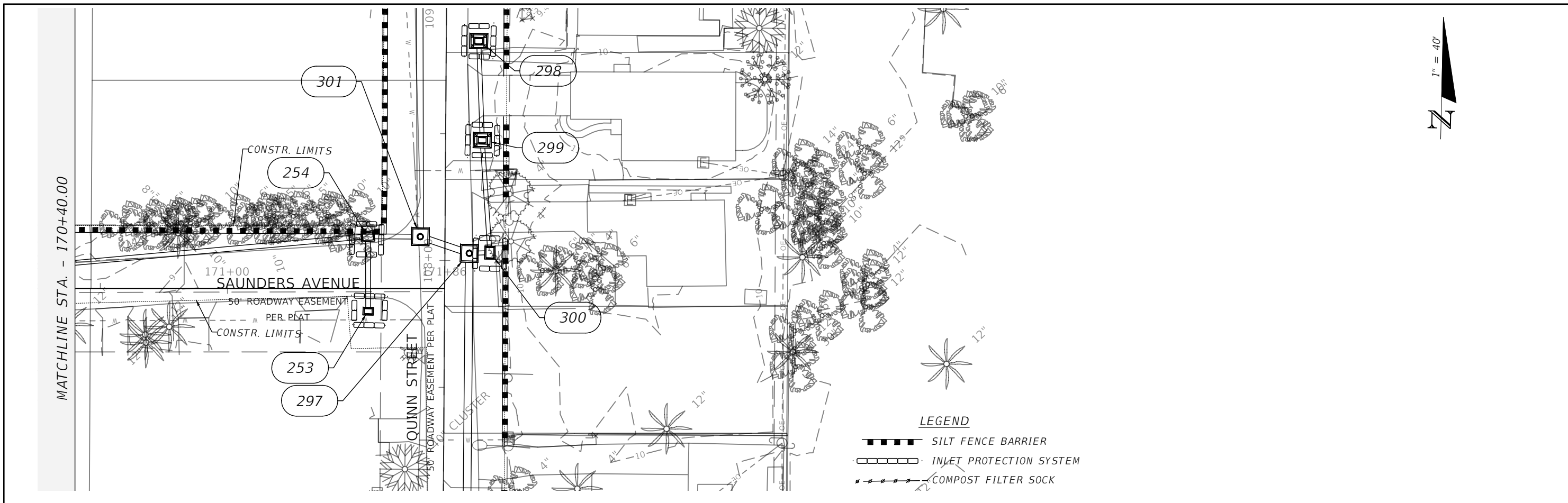
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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STORM SEWER EROSION & SEDIMENT CONTROL PLAN

SHEET NO.
87

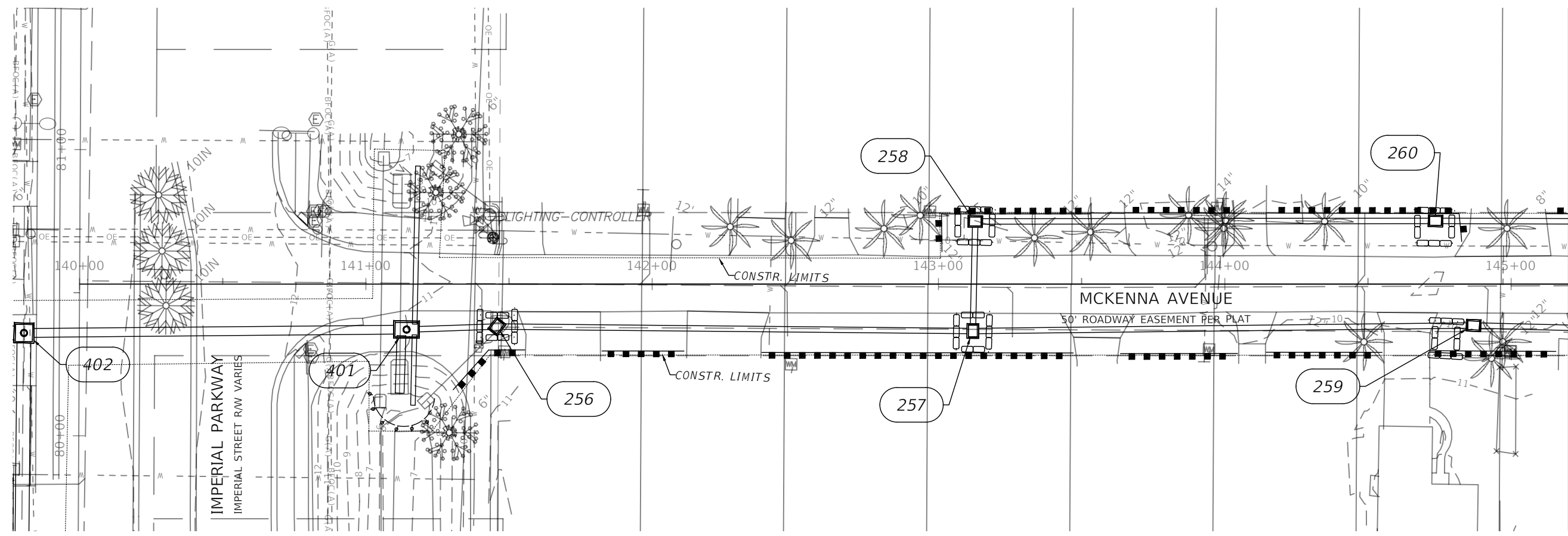


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1" = 4' Vertical

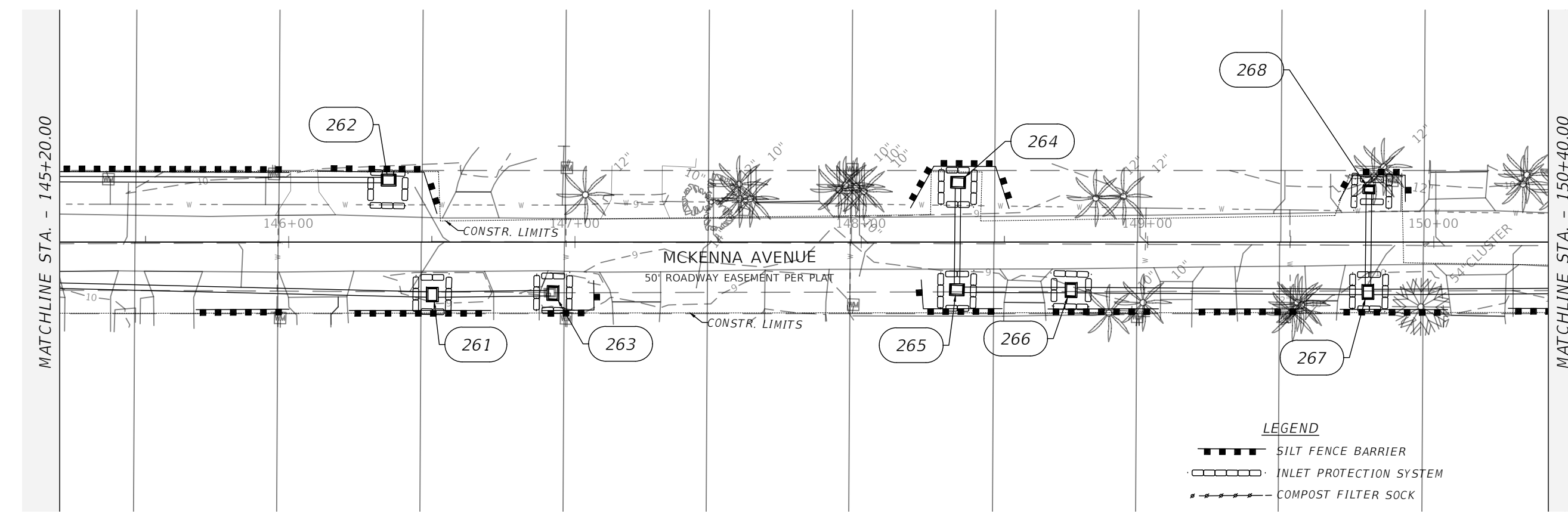
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
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STORM SEWER EROSION & SEDIMENT CONTROL PLAN	SHEET NO. 88
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MATCHLINE STA. - 145+20.00



MATCHLINE STA. - 145+20.00

MATCHLINE STA. - 150+40.00

- LEGEND**
- ▬▬▬▬▬ SILT FENCE BARRIER
 - INLET PROTECTION SYSTEM
 - ▬▬▬▬▬ COMPOST FILTER SOCK

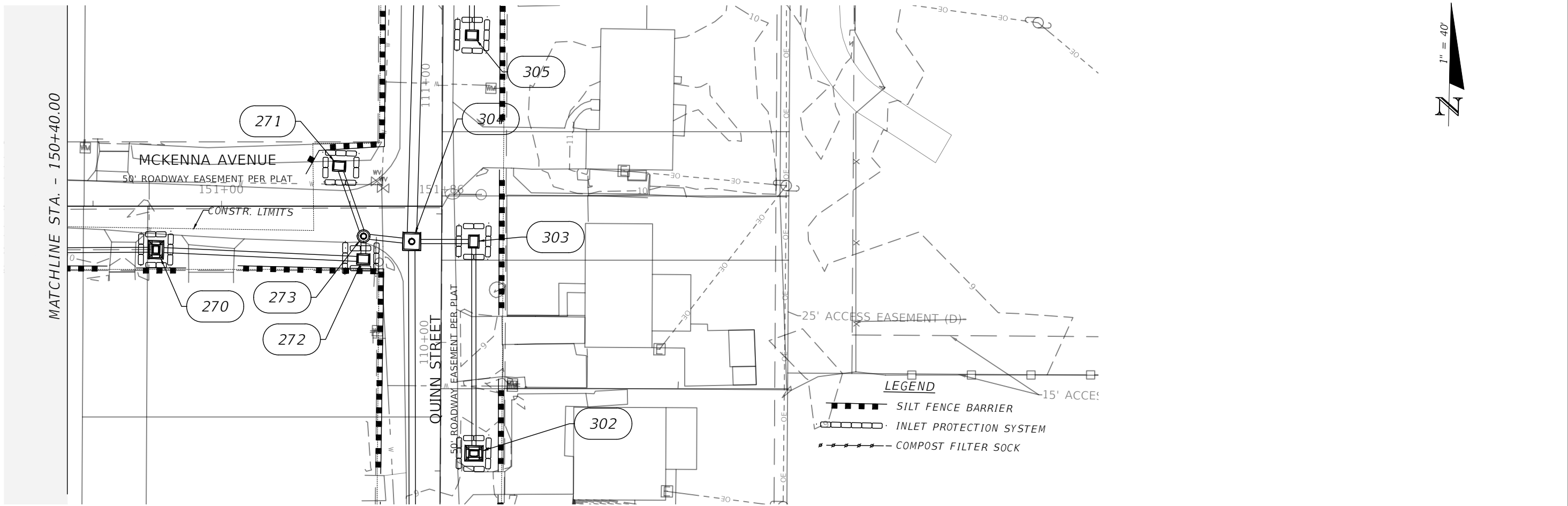
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CITY OF BONITA SPRINGS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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STORM SEWER EROSION & SEDIMENT CONTROL PLAN

SHEET NO.
89



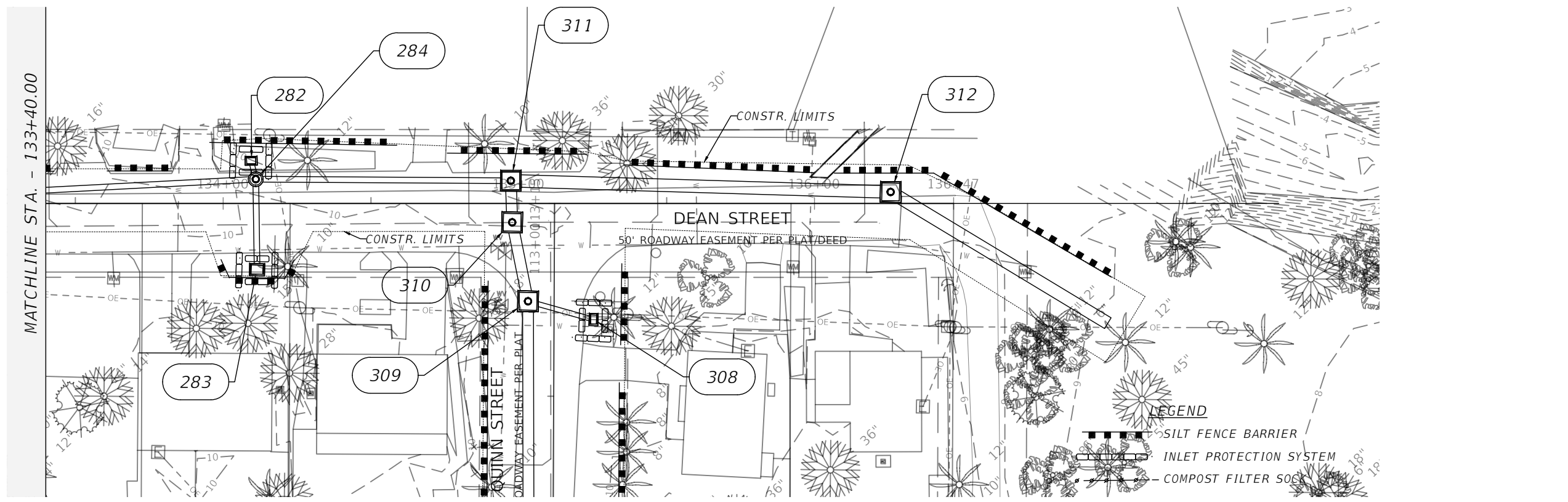
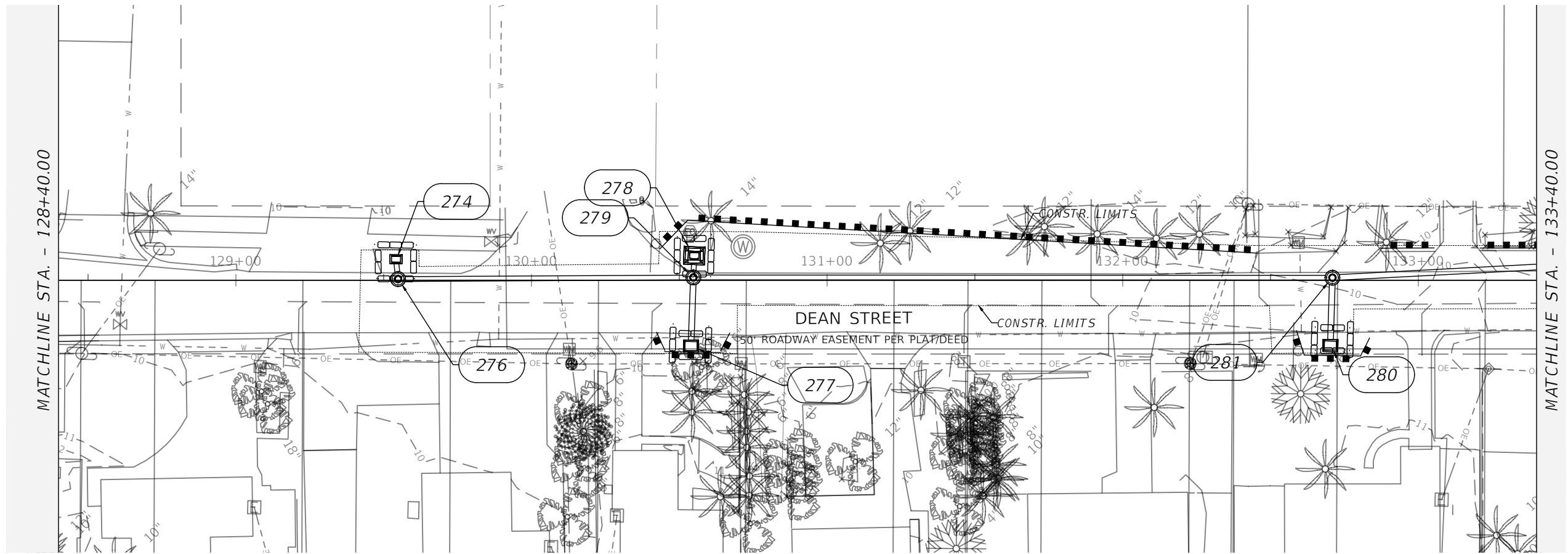
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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**STORM SEWER EROSION &
SEDIMENT CONTROL PLAN**

SHEET NO.
90



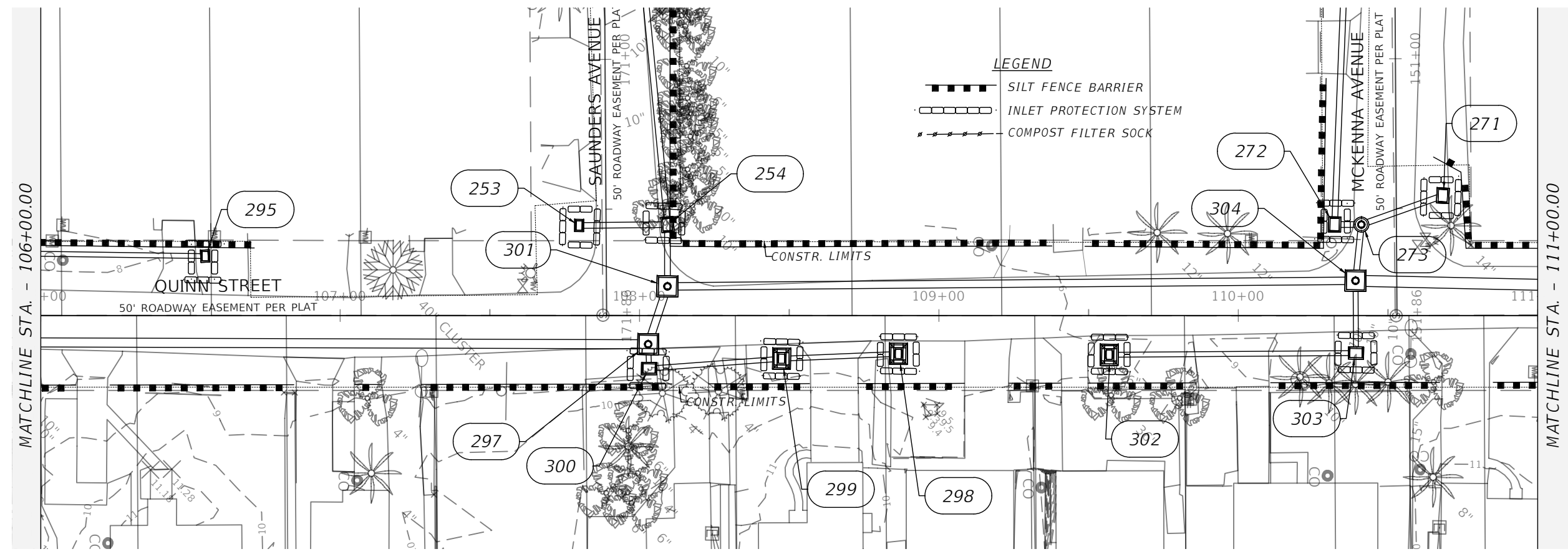
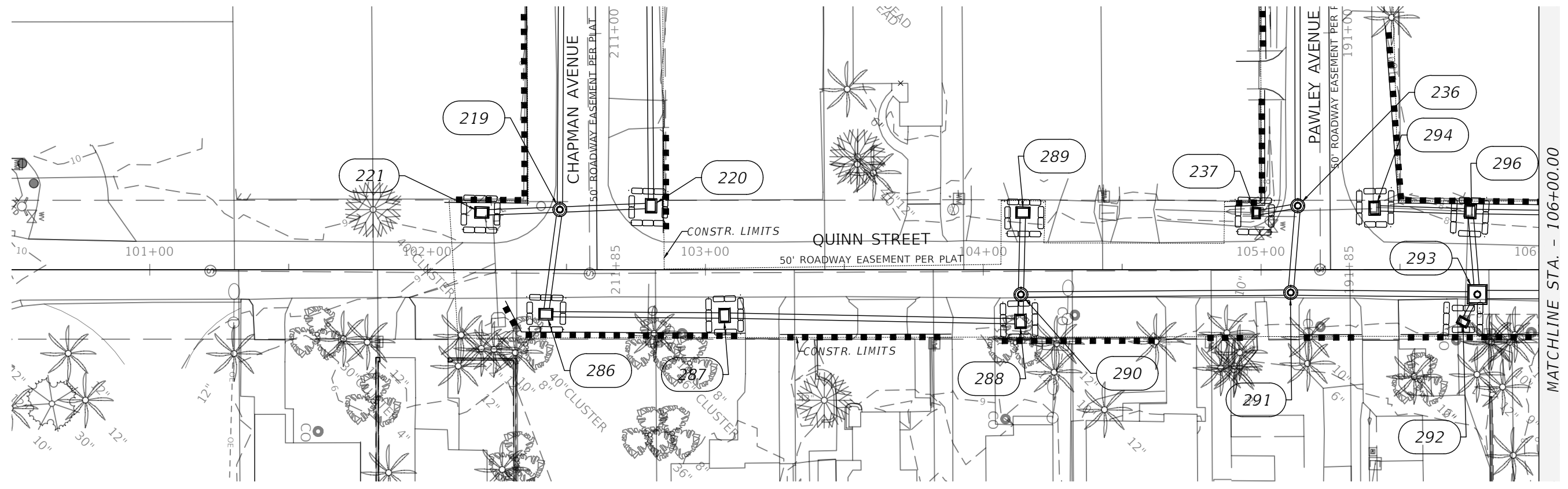
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CITY OF BONITA SPRINGS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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STORM SEWER EROSION & SEDIMENT CONTROL PLAN

SHEET NO.
 91



LEGEND

- SILT FENCE BARRIER
- INLET PROTECTION SYSTEM
- COMPOST FILTER SOCK

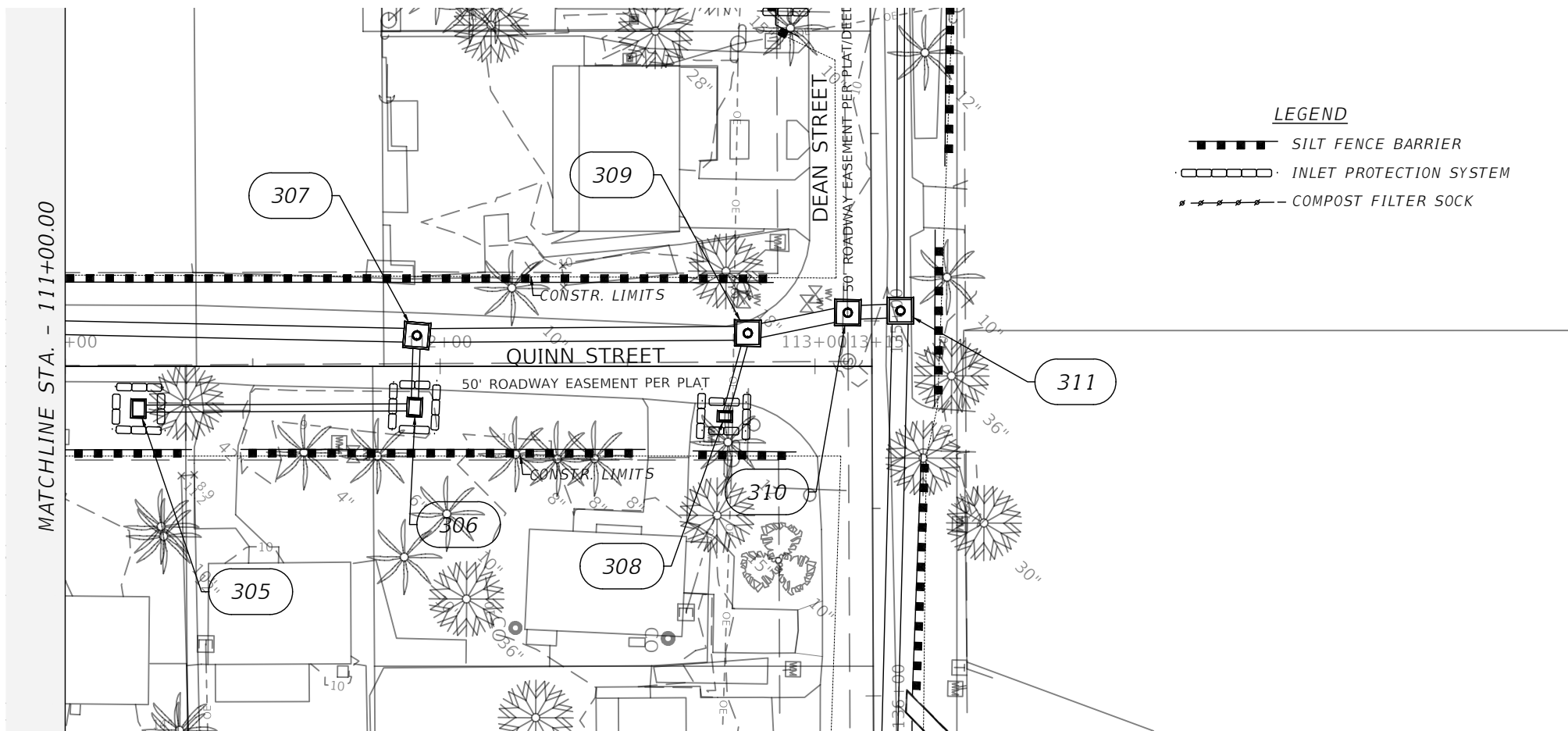
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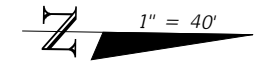
CITY OF BONITA SPRINGS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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STORM SEWER EROSION & SEDIMENT CONTROL PLAN

SHEET NO.
92



- LEGEND**
- SILT FENCE BARRIER
 - INLET PROTECTION SYSTEM
 - COMPOST FILTER SOCK



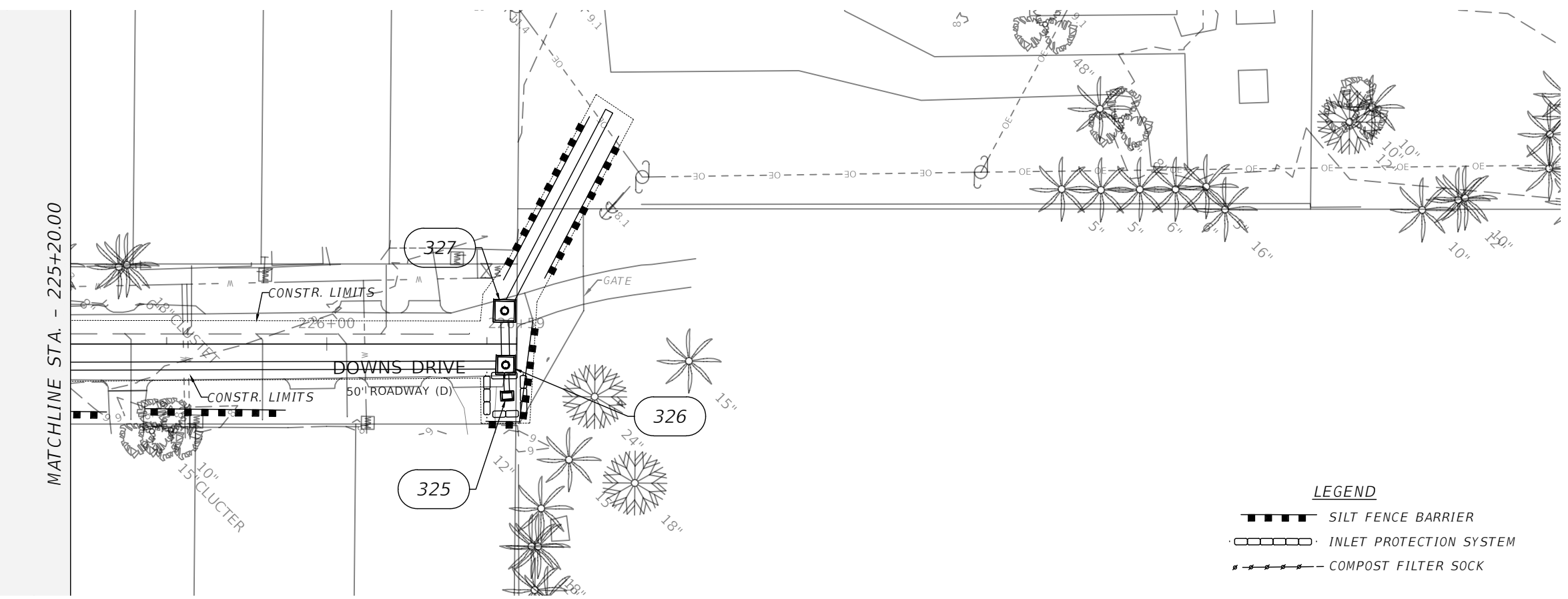
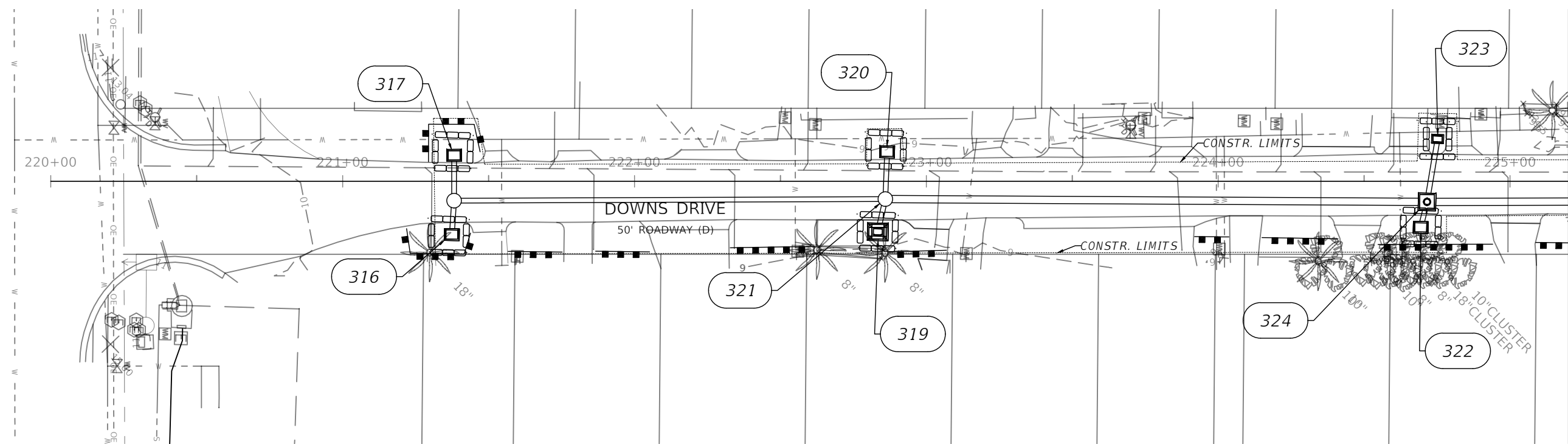
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CITY OF BONITA SPRINGS		
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STORM SEWER EROSION & SEDIMENT CONTROL PLAN

SHEET NO.
93



- LEGEND**
- ▬▬▬▬ SILT FENCE BARRIER
 - ▭▭▭▭ INLET PROTECTION SYSTEM
 - ▬▬▬▬ COMPOST FILTER SOCK

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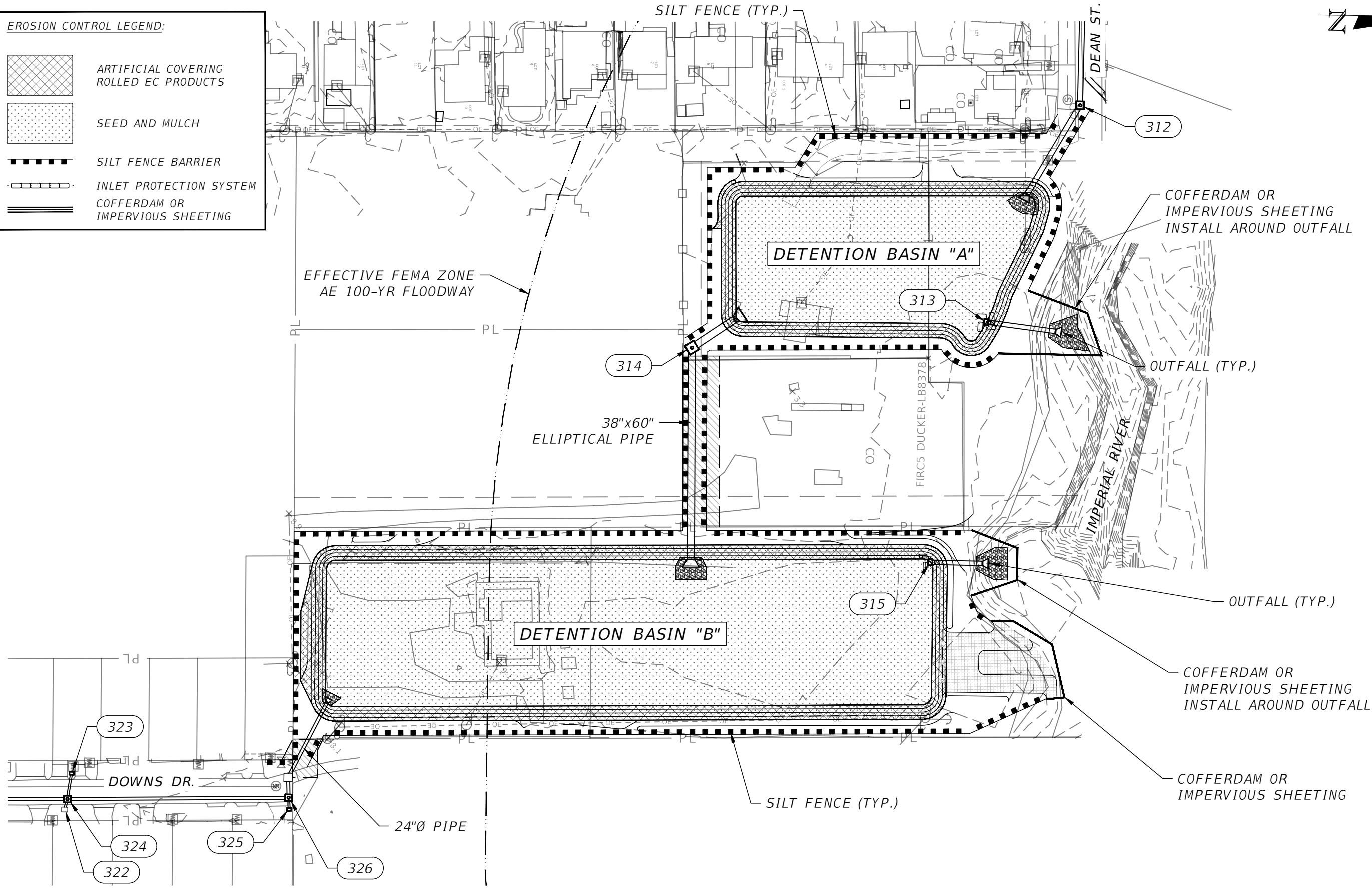
STORM SEWER EROSION & SEDIMENT CONTROL PLAN

SHEET NO.
94

EROSION CONTROL LEGEND:

	ARTIFICIAL COVERING ROLLED EC PRODUCTS
	SEED AND MULCH
	SILT FENCE BARRIER
	INLET PROTECTION SYSTEM
	COFFERDAM OR IMPERVIOUS SHEETING

1" = 80'

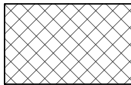
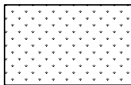

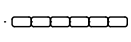


1" = 80' Horizontal

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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EROSION CONTROL PLAN

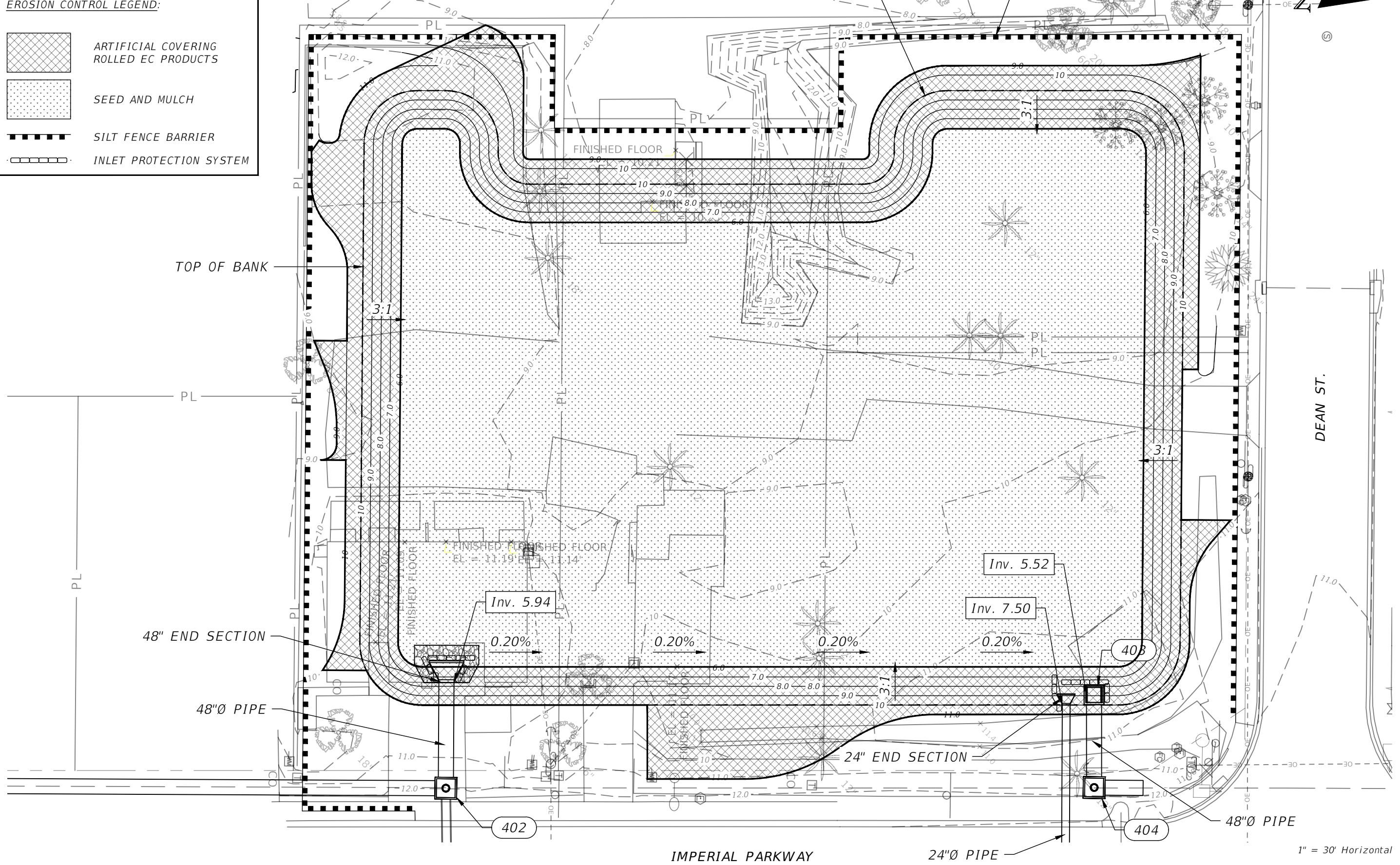
EROSION CONTROL LEGEND:

	ARTIFICIAL COVERING ROLLED EC PRODUCTS
	SEED AND MULCH
	SILT FENCE BARRIER
	INLET PROTECTION SYSTEM

DETENTION BASIN "C"

SILT FENCE (TYP.)

1" = 30'



1" = 30' Horizontal

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EROSION CONTROL PLAN

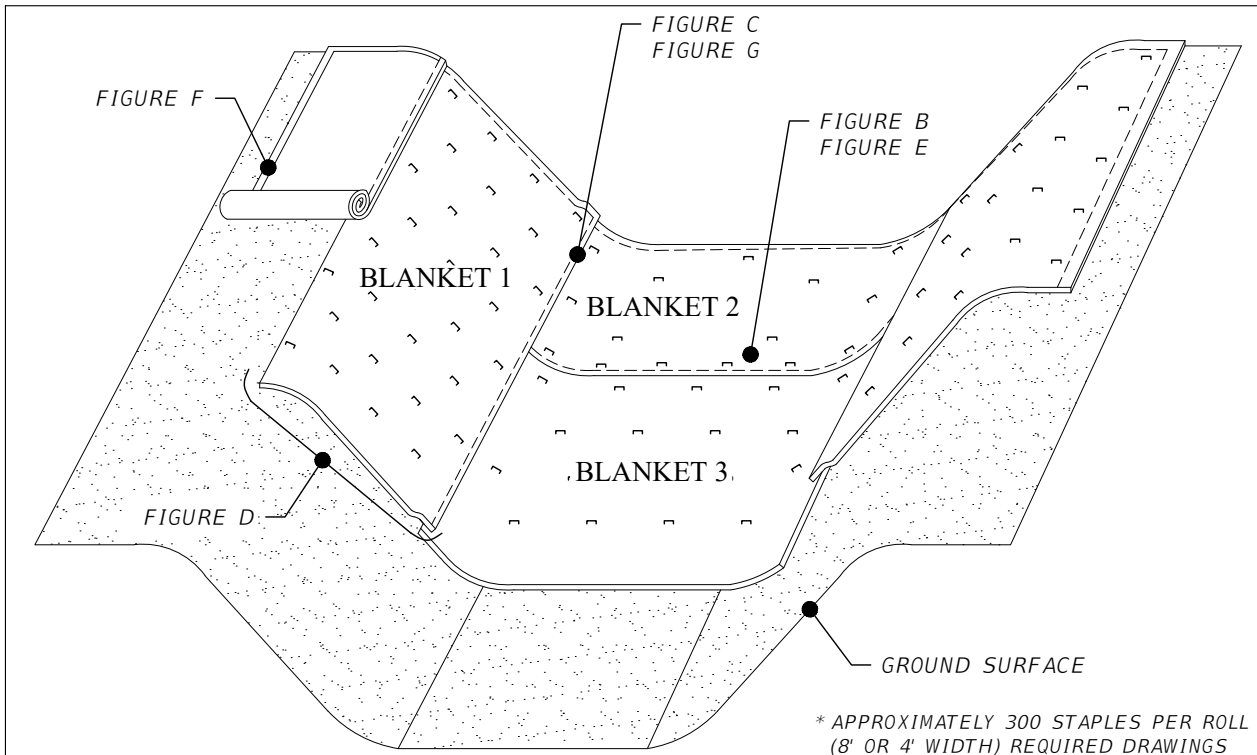


FIGURE A (CHANNEL)

* APPROXIMATELY 300 STAPLES PER ROLL (8' OR 4' WIDTH) REQUIRED DRAWINGS NOT TO SCALE 8' WIDE BLANKET SHOWN

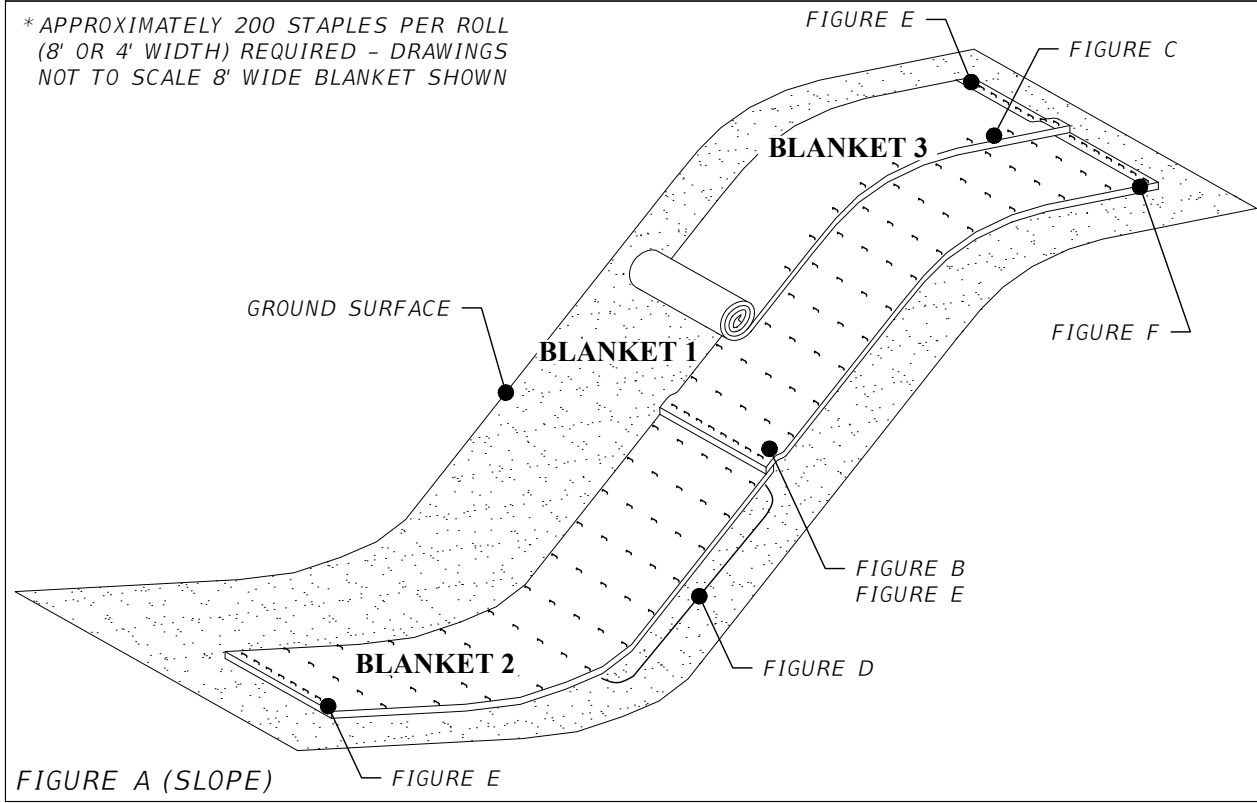


FIGURE A (SLOPE)

* APPROXIMATELY 200 STAPLES PER ROLL (8' OR 4' WIDTH) REQUIRED - DRAWINGS NOT TO SCALE 8' WIDE BLANKET SHOWN

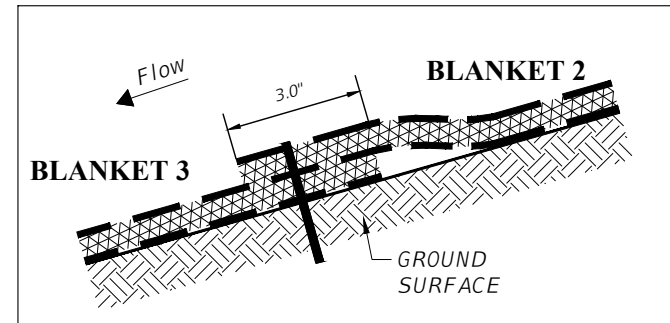


FIGURE B - PROFILE VIEW

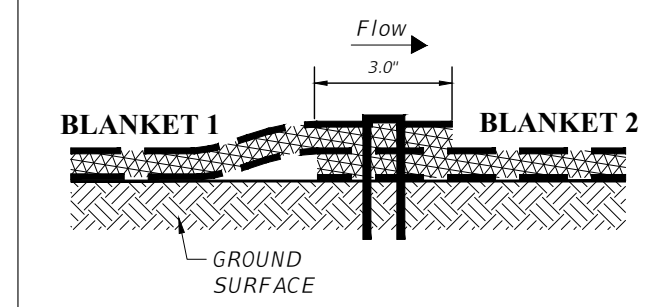
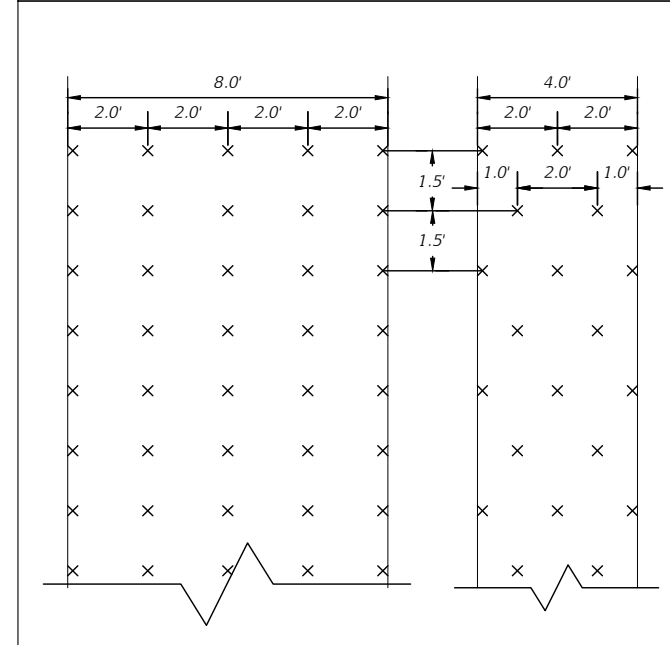


FIGURE C - CROSS SECTION VIEW



x - DENOTES STAPLE LOCATION

FIGURE D - PLAN VIEW

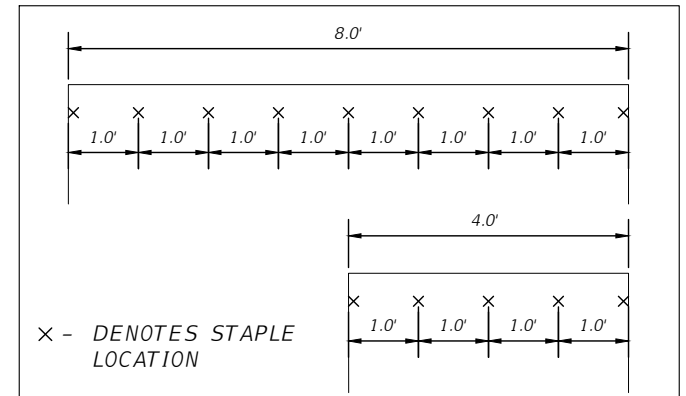


FIGURE E - PLAN VIEW

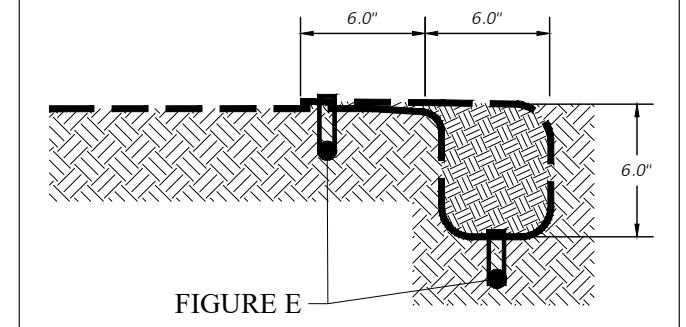


FIGURE F - PROFILE VIEW

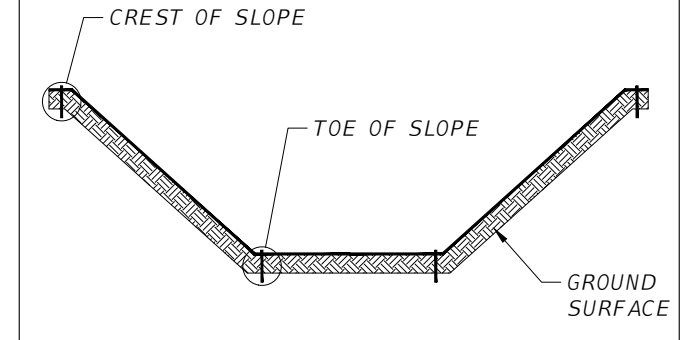


FIGURE G - CRITICAL POINTS (CHANNEL)

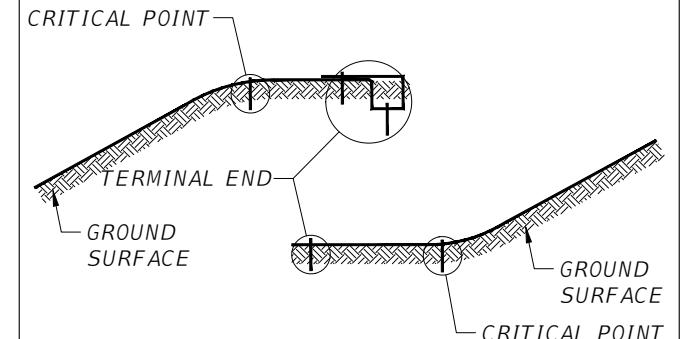


FIGURE G - CRITICAL POINT (SLOPE)

ROLLED EROSION CONTROL PRODUCT DETAIL
NOT TO SCALE

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CHANNEL & SLOPE INSTALLATION

STEP 1 - SITE PREPARATION

PREPARE SITE TO DESIGN PROFILE AND GRADE. REMOVE DEBRIS, ROCKS, CLOUDS, ETC.. GROUND SURFACE SHOULD BE SMOOTH PRIOR TO INSTALLATION TO ENSURE BLANKET REMAINS IN CONTACT WITH SLOPE.

STEP 2 - SEEDING

SEEDING OF SITE SHOULD BE CONDUCTED TO DESIGN REQUIREMENTS OR TO FOLLOW LOCAL OR STATE SEEDING REQUIREMENTS AS NECESSARY.

STEP 3 - STAPLE SELECTION

AT A MINIMUM, 6" LONG BY 1" CROWN, 11 GAUGE STAPLES ARE TO BE USED TO SECURE THE BLANKET TO THE GROUND SURFACE. INSTALLATION IN ROCKY, SANDY OR OTHER LOOSE SOIL MAY REQUIRE LONGER STAPLES.

STEP 4 - EXCAVATE ANCHOR TRENCH AND SECURE BLANKET

EXCAVATE A TRENCH ALONG THE TOP OF THE CHANNEL SIDE SLOPES AND THE UPSTREAM TERMINAL END OF THE CHANNEL TO SECURE THE EDGES OF THE BLANKET. THE TRENCH SHOULD RUN ALONG THE LENGTH AND WIDTH OF THE INSTALLATION, BE 6" WIDE AND 6" DEEP. STAPLE BLANKET ALONG BOTTOM OF TRENCH, FILL WITH COMPACTED SOIL, OVERLAP BLANKET TOWARDS TOE OF SLOPE AND SECURE WITH ROW OF STAPLES (SHOWN IN FIGURES A, E AND F).

STEP 5 - SECURE BODY OF BLANKET

ROLL BLANKET DOWN SLOPE FROM ANCHOR TRENCH. STAPLE BODY OF BLANKET FOLLOWING THE PATTERN SHOWN IN FIGURE D. LEAVE END OF BLANKET UNSTAPLED TO ALLOW FOR OVERLAP SHOWN IN FIGURE B. PLACE DOWNSTREAM BLANKET UNDERNEATH UPSTREAM BLANKET TO FORM SHINGLE PATTERN. STAPLE SEAM AS SHOWN IN FIGURE E. SECURE DOWNSTREAM BLANKET WITH STAPLING PATTERN SHOWN IN FIGURE D. STAPLING PATTERN SHOWN IN FIGURE D REFLECTS MINIMUM STAPLES TO BE USED. MORE STAPLES MAY BE REQUIRED TO ENSURE BLANKET IS SUFFICIENTLY SECURED TO RESIST MOWERS AND FOOT TRAFFIC AND TO ENSURE BLANKET IS IN CONTACT WITH SOIL SURFACE OVER THE ENTIRE AREA OF BLANKET. FURTHER, CRITICAL POINTS REQUIRE ADDITIONAL STAPLES. CRITICAL POINTS ARE IDENTIFIED IN FIGURE G.

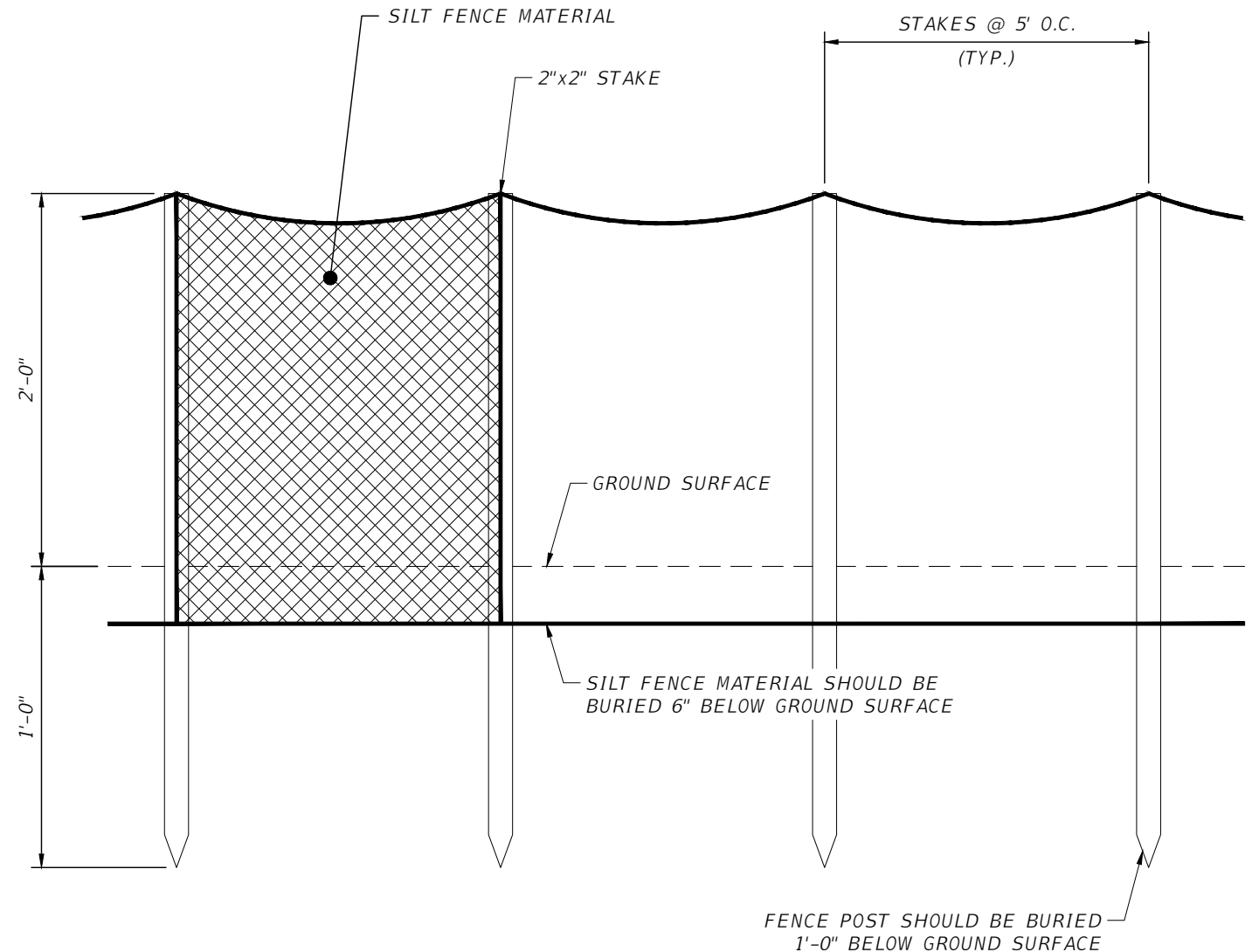
STEP 6 - CONTINUE ALONG SLOPE - COMPLETE INSTALLATION

OVERLAP ADJACENT BLANKETS AS SHOWN IN FIGURE C AND REPEAT STEP 5. SECURE TOE OF SLOPE USING STAPLING PATTERN SHOWN IN FIGURE E. SECURE EDGES OF INSTALLATION BY STAPLING AT 1.0' INTERVALS ALONG THE TERMINAL EDGE.

EROSION CONTROL BLANKET (SURFACE APPLIED) MAINTENANCE REQUIREMENTS

1. DURING VEGETATIVE ESTABLISHMENT INSPECT AFTER STORM EVENTS FOR ANY EROSION BELOW THE BLANKET.
2. IF ANY AREA SHOWS EROSION PULL BACK THAT PORTION OF THE BLANKET COVERING IT, ADD SOIL, RE-SEED THE AREA, AND RE-LAY AND STAPLE THE BLANKET.
3. AFTER VEGETATIVE ESTABLISHMENT, CHECK THE TREATED AREA WEEKLY.

ROLLED EROSION CONTROL PRODUCT NOTES



NOTES:

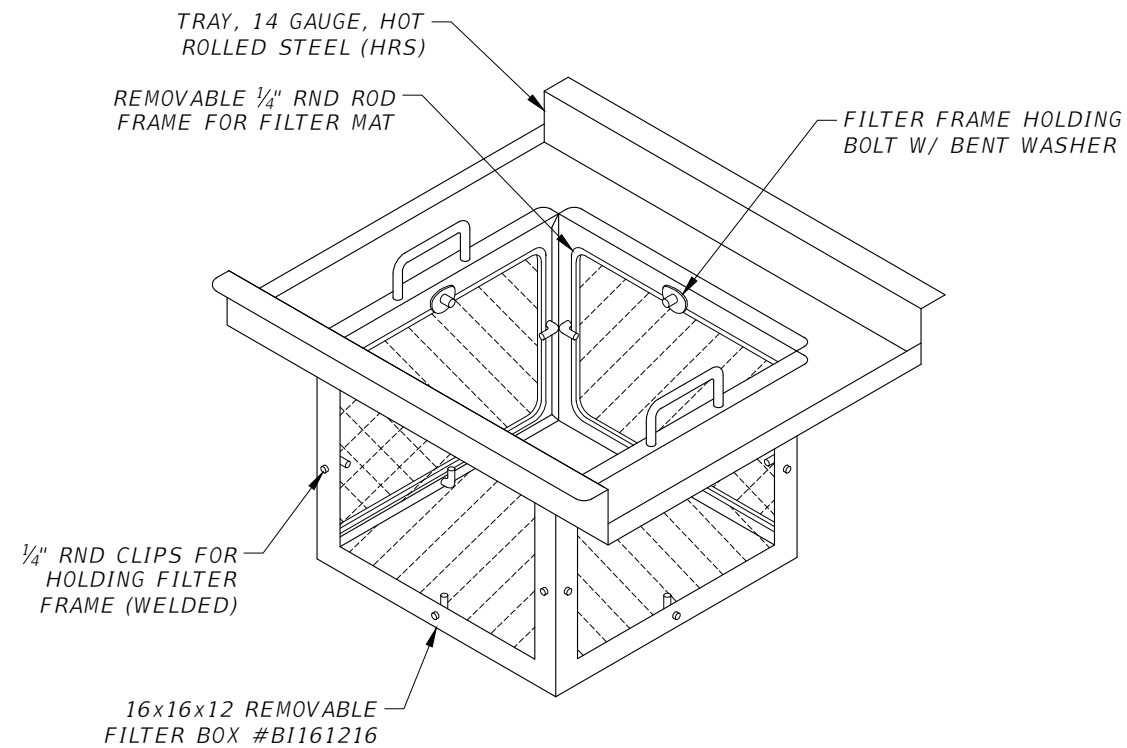
1. SILT FENCE SHALL BE A MACHINE PRODUCED, NON-WOVEN GEOTEXTILE OF 100% POLYPROPYLENE.
2. ALL STAKES SHALL BE 2"x2" HARDWOOD 36" TALL WITH 24" TALL LATH STAPLED TO STAKES OVER FABRIC AS REINFORCEMENT.
3. ALL SILT FENCE SHALL BE PREFABRICATED BY THE SUPPLIER. NO FIELD ASSEMBLY WILL BE ACCEPTED.

MAINTENANCE REQUIREMENTS:

1. INSPECT SILT FENCE WEEKLY AND AFTER EACH STORM EVENT.
2. REPAIR OR REPLACE SILT FENCE IF TORN, STARTING TO DECOMPOSE, DAMAGED BY CONSTRUCTION EQUIPMENT, OR IS INEFFECTIVE.
3. REMOVE SEDIMENT ONCE IT REACHES 1/2 THE HEIGHT OF THE FENCE.

**SILT FENCE BARRIER DETAIL
NOT TO SCALE**

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			SHEET NO. 98
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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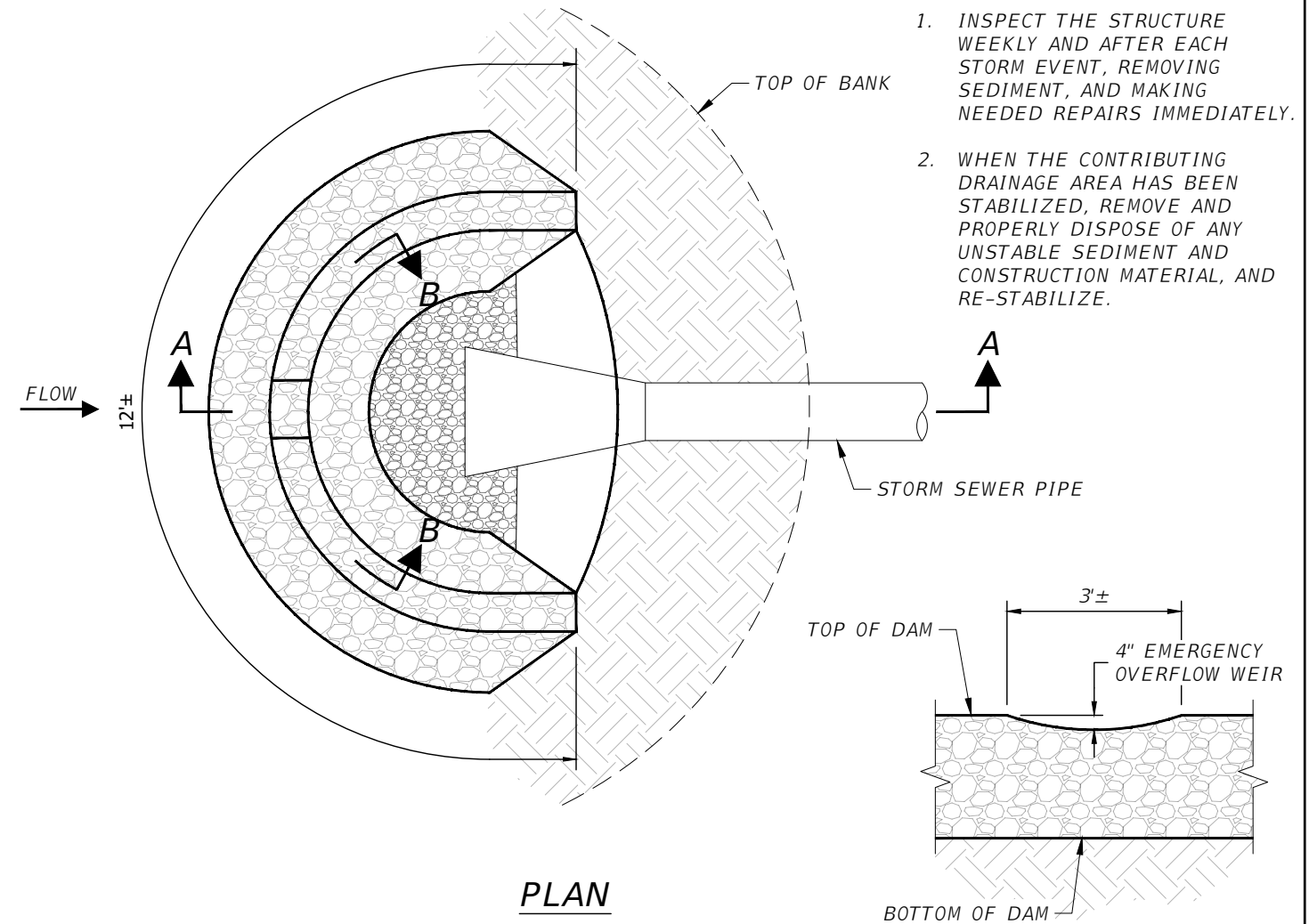


*RECOMMENDED INLET PROTECTION DEVICE. SIMILAR INLET PROTECTION DEVICES MAY BE USED UPON APPROVAL FROM THE ENGINEER.

MAINTENANCE REQUIREMENTS:

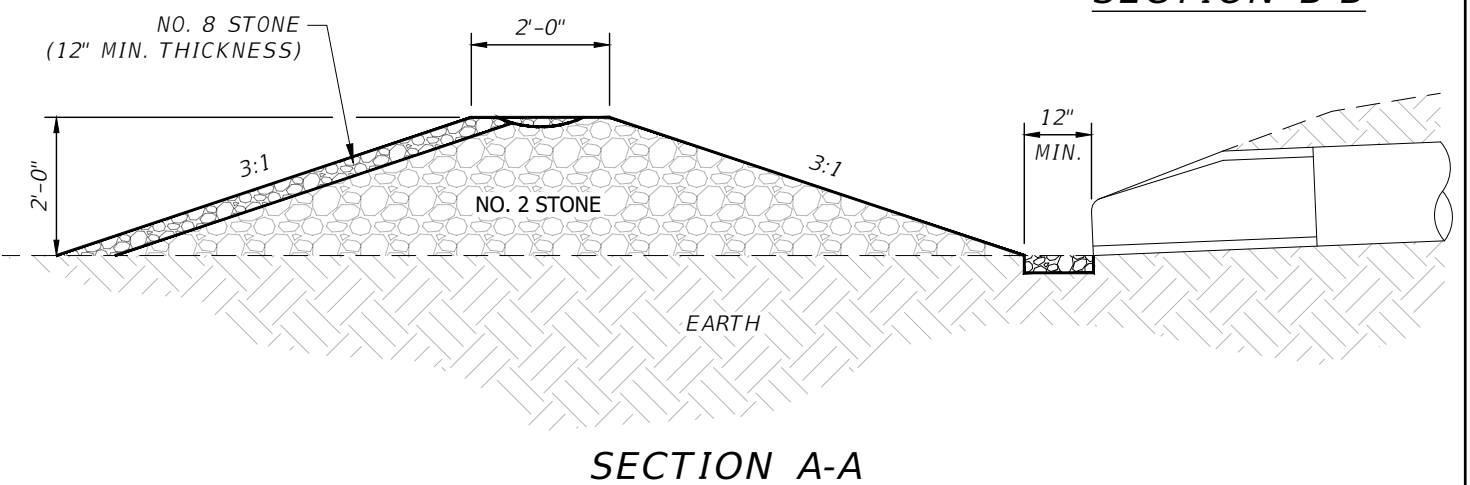
1. INSPECT INLET PROTECTION DEVICES WEEKLY AND AFTER EACH STORM EVENT FOR DAMAGE OR CLOGGING.
2. REMOVE SEDIMENT AFTER EACH STORM EVENT.
3. CLEANING BY FLUSHING WITH WATER IS PROHIBITED.

INLET PROTECTION DETAIL
NOT TO SCALE



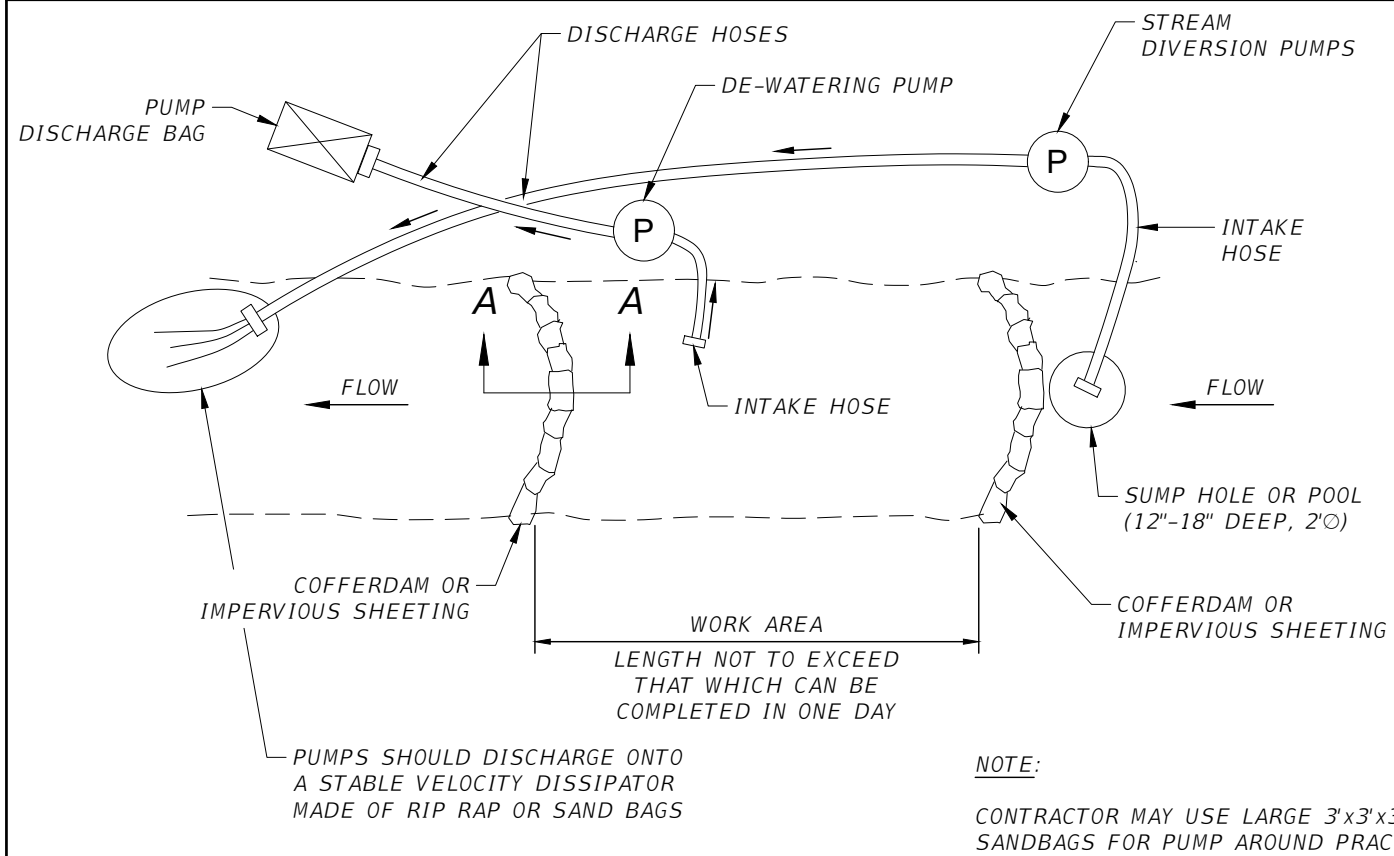
MAINTENANCE REQUIREMENTS:

1. INSPECT THE STRUCTURE WEEKLY AND AFTER EACH STORM EVENT, REMOVING SEDIMENT, AND MAKING NEEDED REPAIRS IMMEDIATELY.
2. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE AND PROPERLY DISPOSE OF ANY UNSTABLE SEDIMENT AND CONSTRUCTION MATERIAL, AND RE-STABILIZE.



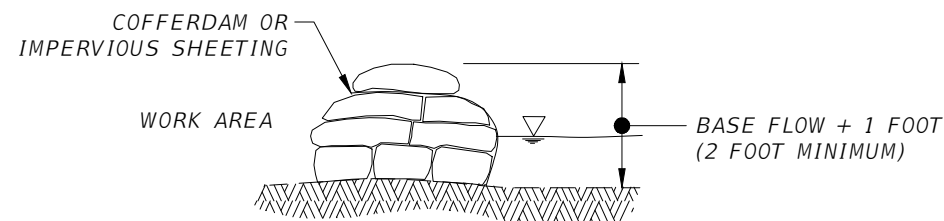
ROCK DONUT INLET PROTECTION DETAIL
NOT TO SCALE

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			EROSION CONTROL DETAILS	SHEET NO. 99
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
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NOTE:
 CONTRACTOR MAY USE LARGE 3'x3'x3' SANDBAGS FOR PUMP AROUND PRACTICE.

PLAN VIEW



SECTION A-A

PUMP AROUND MONITORING AND MAINTENANCE REQUIREMENTS:

1. INSPECT DOWNSTREAM AREAS DURING CONSTRUCTION ACTIVITIES FOR EVIDENCE OF SEDIMENT LADEN WATER LEAVING THE ACTIVE WORK AREA.
2. MONITOR WATER LEVELS IN THE STREAM DURING CONSTRUCTION ACTIVITIES TO ENSURE PUMPS ARE ADEQUATE TO DIVERT ALL FLOW AROUND THE ACTIVE WORK AREA. INSTALL ADDITIONAL PUMPS IF NECESSARY.
3. ALL EFFORTS SHOULD BE MADE TO PERFORM OPEN TRENCH CONSTRUCTION OF THE STREAM AND PUMP AROUND IN ONE WORKING DAY. IN STREAM ACTIVITIES SHALL BE KEPT TO A PRACTICAL MINIMUM.
4. SEDIMENT THAT HAS ACCUMULATED UPSTREAM OF SANDBAG DAMS SHOULD BE REMOVED FROM THE STREAM AND REDISTRIBUTED IN AN UPLAND AREA. SEDIMENT DISTRIBUTION AREAS SHOULD BE SEEDED AND MULCHED.
5. THE STREAM BED AND BANKS SHALL BE STABILIZED PRIOR TO REMOVAL OF PUMP AROUND PRACTICES.

PUMP AROUND PRACTICE DETAIL
 NOT TO SCALE

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			SHEET NO. 100
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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SUMMARY OF PAVEMENT

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION				SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.		DESCRIPTION	P			F	P	F			
0285 705	OPTIONAL BASE, BASE GROUP 05	129+52	to	136+47	DEAN STREET	LT/RT	SY	318		1070			
		102+40	to	112+99	QUINN STREET	LT/RT	SY	751					
0285 706	OPTIONAL BASE, BASE GROUP 06	181+20	to	191+72	PAWLEY AVENUE	LT/RT	SY	357		983			
		77+97	to	82+60	IMPERIAL PARKWAY	LT/RT	SY	160					
		221+35	to	226+59	DOWNS DRIVE	LT/RT	SY	465					
0285 707	OPTIONAL BASE, BASE GROUP 07	20+15	to	24+99	LIME STREET	LT/RT	SY	230		1572			
		50+14	to	50+38	TANGERINE DRIVE	LT/RT	SY	27					
		10+31	to	39+62	ORANGE BLOSSOM DRIVE	LT/RT	SY	618					
		201+21	to	211+74	CHAPMAN AVENUE	LT/RT	SY	410					
		161+19	to	171+75	SAUNDERS AVENUE	LT/RT	SY	202					
		140+77	to	151+69	MCKENNA AVENUE	LT/RT	SY	85					
0334 1 22	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC B, SP-12.5	129+52	to	136+47	DEAN STREET	LT/RT	TN	40		451			
		102+40	to	112+99	QUINN STREET	LT/RT	TN	136					
		181+20	to	191+72	PAWLEY AVENUE	LT/RT	TN	45					
		77+97	to	82+60	IMPERIAL PARKWAY	LT/RT	TN	30					
		221+35	to	226+59	DOWNS DRIVE	LT/RT	TN	57					
		20+15	to	24+99	LIME STREET	LT/RT	TN	21					
		50+14	to	50+38	TANGERINE DRIVE	LT/RT	TN	3					
		10+31	to	39+62	ORANGE BLOSSOM DRIVE	LT/RT	TN	56					
		201+21	to	211+74	CHAPMAN AVENUE	LT/RT	TN	37					
	161+19	to	171+75	SAUNDERS AVENUE	LT/RT	TN	19						
	140+77	to	151+69	MCKENNA AVENUE	LT/RT	TN	8						
0337 7 30	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC B, FC-9.5	77+97	to	82+60	IMPERIAL PARKWAY	LT/RT	TN	10		30			
		129+52	to	136+47	DEAN STREET	LT/RT	TN	20					

<p align="center">REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>----</td> <td>----</td> <td>----</td> <td>----</td> </tr> </tbody> </table>				DATE	DESCRIPTION	DATE	DESCRIPTION	----	----	----	----	ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	<p align="center">CITY OF BONITA SPRINGS</p> <table border="1"> <thead> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> </thead> <tbody> <tr> <td>----</td> <td></td> <td>----</td> </tr> </tbody> </table>	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	----		----	<p align="center">SUMMARY OF PAVEMENT</p>	SHEET NO. <p align="center">101</p>
DATE	DESCRIPTION	DATE	DESCRIPTION																		
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID																			
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SUMMARY OF PERMANENT DRIVEWAYS

LOCATION			MATERIAL								DESIGN NOTES	CONSTRUCTION REMARKS
			CONCRETE (SY)		ASPHALT (TN)		BRICK (SY)		GRAVEL (SY)			
STA. OF DRIVEWAY	SIDE	STREET	0522	2	0334	1 AA						
			P	F	P	F	P	F	P	F		
205+36	RT	CHAPMAN AVE			2.7							
205+61	RT	CHAPMAN AVE			1.4							
206+33	RT	CHAPMAN AVE			1.6							
206+61	RT	CHAPMAN AVE			0.4							
207+13	RT	CHAPMAN AVE			0.3							
207+81	RT	CHAPMAN AVE			0.6							
208+60	RT	CHAPMAN AVE			0.5							
209+16	RT	CHAPMAN AVE			0.3							
210+77	RT	CHAPMAN AVE			0.3							
202+10	LT	CHAPMAN AVE			1.7							
203+50	LT	CHAPMAN AVE			1.7							
202+85	LT	CHAPMAN AVE			1.7							
205+40	LT	CHAPMAN AVE			0.1							
203+64	LT	CHAPMAN AVE			1.8							
209+56	LT	CHAPMAN AVE			1.2							
210+13	LT	CHAPMAN AVE			1.3							
210+79	LT	CHAPMAN AVE			1.5							
103+20	RT	QUINN ST			1.8							
224+66	LT	DOWNS DR			0.1							
224+84	LT	DOWNS DR			0.1							
182+85	LT	PAWLEY AVE			2.1							
182+36	LT	PAWLEY AVE			1.9							
183+37	LT	PAWLEY AVE			1.9							
181+98	LT	PAWLEY AVE			2.2							
105+43	RT	QUINN ST			0.6							
225+20	RT	DOWNS DR			0.1							
225+97	RT	DOWNS DR			0.2							
226+20	RT	DOWNS DR			0.3							
226+46	RT	DOWNS DR			0.4							
168+38	LT	SAUNDERS AVE			2.2							
SUBTOTAL :			0		33		0		0			

<p align="center">REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>----</td> <td>----</td> <td>----</td> <td>----</td> </tr> </tbody> </table>				DATE	DESCRIPTION	DATE	DESCRIPTION	----	----	----	----	<p>ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000</p>		<p align="center">CITY OF BONITA SPRINGS</p> <table border="1"> <thead> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> </thead> <tbody> <tr> <td>----</td> <td></td> <td>----</td> </tr> </tbody> </table>		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	----		----	<p align="center">SUMMARY OF DRIVEWAYS</p>		<p>SHEET NO. 102</p>
DATE	DESCRIPTION	DATE	DESCRIPTION																					
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID																						
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SUMMARY OF PERMANENT DRIVEWAYS

LOCATION			MATERIAL								DESIGN NOTES	CONSTRUCTION REMARKS
			CONCRETE (SY)		ASPHALT (TN)		BRICK (SY)		GRAVEL (SY)			
STA. OF DRIVEWAY	SIDE	STREET	0522	2	0334	1 AA	BRICK (SY)		GRAVEL (SY)			
			P	F	P	F	P	F	P	F		
169+24	LT	SAUNDERS AVE			1.2							
170+31	LT	SAUNDERS AVE			1.0							
109+99	RT	QUINN ST			3.5							
143+57	RT	MCKENNA AVE			2.7							
146+90	RT	MCKENNA AVE			2.6							
148+60	RT	MCKENNA AVE			0.3							
149+10	RT	MCKENNA AVE			0.3							
150+97	RT	MCKENNA AVE			0.8							
150+61	RT	MCKENNA AVE			0.3							
143+60	LT	MCKENNA AVE			1.4							
144+10	LT	MCKENNA AVE			1.3							
111+43	RT	QUINN ST			1.1							
204+34	LT	CHAPMAN AVE			1.5							
104+69	RT	QUINN ST			0.7							
105+50	RT	QUINN ST			0.6							
21+00	LT	LIME ST			4.5							
21+00	RT	LIME ST			3.6							
106+47	LT	QUINN ST			1.6							
30+62	RT	ORANGE BLOSSOM DR	11.6									
32+13	RT	ORANGE BLOSSOM DR	4.2									
32+87	RT	ORANGE BLOSSOM DR	5.3									
36+30	RT	ORANGE BLOSSOM DR	0.7									
34+30	RT	ORANGE BLOSSOM DR	4.9									
34+36	RT	ORANGE BLOSSOM DR	6.3									
37+80	LT	ORANGE BLOSSOM DR	0.5									
22+98	LT	LIME ST	14.5									
209+29	LT	CHAPMAN AVE	15.7									
209+60	LT	CHAPMAN AVE	2.7									
23+88	LT	LIME ST	12.8									
22+66	LT	LIME ST	14.0									
SUBTOTAL :			93		29		0		0			

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DATE	DESCRIPTION	DATE	DESCRIPTION																						
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID																							
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SUMMARY OF PERMANENT DRIVEWAYS

LOCATION			MATERIAL								DESIGN NOTES	CONSTRUCTION REMARKS
			CONCRETE (SY)		ASPHALT (TN)		BRICK (SY)		GRAVEL (SY)			
STA. OF DRIVEWAY	SIDE	STREET	0522	2	0334	1 AA	BRICK (SY)		GRAVEL (SY)			
			P	F	P	F	P	F	P	F		
24+67	LT	LIME ST	13.5									
25+54	LT	LIME ST	10.4									
183+72	LT	PAWLEY AVE	35.1									
187+49	LT	PAWLEY AVE	17.7									
185+14	LT	PAWLEY AVE	0.7									
106+14	RT	QUINN ST	4.6									
166+62	RT	SAUNDERS AVE	0.1									
161+79	LT	SAUNDERS AVE	14.9									
162+65	LT	SAUNDERS AVE	18.0									
167+10	LT	SAUNDERS AVE	14.8									
166+81	LT	SAUNDERS AVE	11.2									
168+57	LT	SAUNDERS AVE	0.4									
169+29	LT	SAUNDERS AVE	2.1									
169+66	LT	SAUNDERS AVE	8.2									
108+18	RT	QUINN ST	11.5									
108+62	RT	QUINN ST	15.1									
143+55	RT	MCKENNA AVE	1.9									
146+11	RT	MCKENNA AVE	3.6									
141+70	RT	MCKENNA AVE	23.8									
142+26	RT	MCKENNA AVE	23.7									
149+12	RT	MCKENNA AVE	0.9									
144+65	RT	MCKENNA AVE	15.8									
149+68	RT	MCKENNA AVE	0.7									
145+31	RT	MCKENNA AVE	16.0									
145+61	RT	MCKENNA AVE	14.4									
146+80	RT	MCKENNA AVE	14.8									
143+55	LT	MCKENNA AVE	1.7									
144+10	LT	MCKENNA AVE	2.1									
111+43	RT	QUINN ST	4.9									
132+84	LT	DEAN ST	7.3									
SUBTOTAL :			310		0		0		0			

<p align="center">REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>----</td> <td>----</td> <td>----</td> <td>----</td> </tr> </tbody> </table>				DATE	DESCRIPTION	DATE	DESCRIPTION	----	----	----	----	<p>ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000</p>		<p align="center">CITY OF BONITA SPRINGS</p> <table border="1"> <thead> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> </thead> <tbody> <tr> <td>----</td> <td></td> <td>----</td> </tr> </tbody> </table>		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	----		----	<p align="center">SUMMARY OF DRIVEWAYS</p>		<p>SHEET NO. 104</p>
DATE	DESCRIPTION	DATE	DESCRIPTION																					
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID																						
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SUMMARY OF PERMANENT DRIVEWAYS

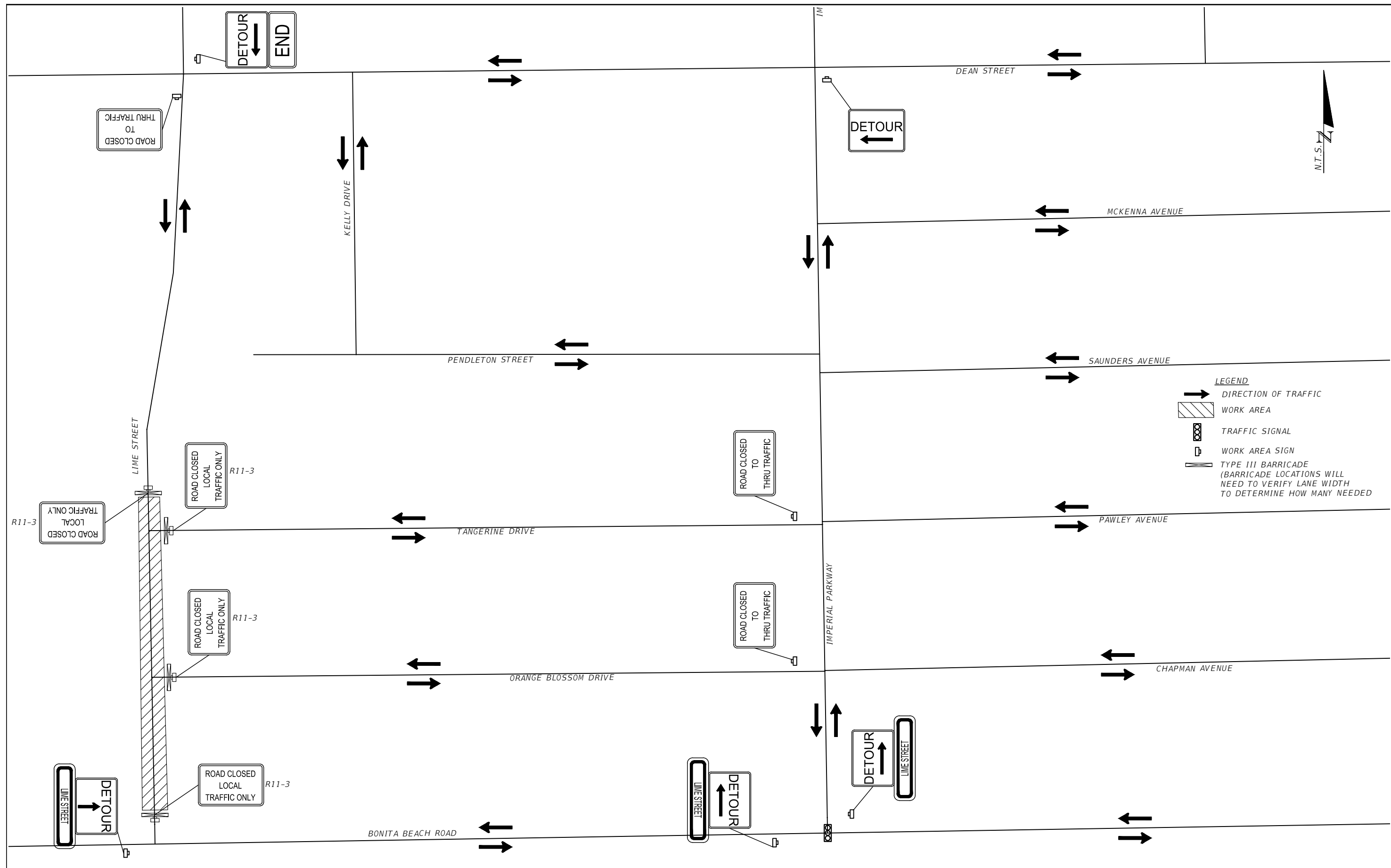
LOCATION			MATERIAL								DESIGN NOTES	CONSTRUCTION REMARKS
			CONCRETE (SY)		ASPHALT (TN)		BRICK (SY)		GRAVEL (SY)			
STA. OF DRIVEWAY	SIDE	STREET	0522	2	0334	1 AA	BRICK (SY)		GRAVEL (SY)			
			P	F	P	F	P	F	P	F		
133+17	LT	DEAN ST	10.8									
201+84	LT	CHAPMAN AVE	10.1									
162+32	LT	SAUNDERS AVE	17.3									
167+57	LT	SAUNDERS AVE	14.9									
168+20	LT	SAUNDERS AVE	14.3									
22+33	LT	LIME ST	16.4									
22+79	LT	LIME ST	7.6									
24+16	RT	LIME ST	6.3									
51+60	RT	TANGERINE DR	21.3									
52+49	LT	TANGERINE DR	17.7									
78+10	LT	IMPERIAL PKWY	40.8									
204+22	LT	CHAPMAN AVE					28.9					
209+28	LT	CHAPMAN AVE					7.1					
22+90	RT	DOWNS DR					3.6					
183+00	LT	PAWLEY AVE					27.0					
186+80	LT	PAWLEY AVE					0.5					
105+59	RT	QUINN ST					5.1					
167+20	LT	SAUNDERS AVE					2.4					
168+75	LT	SAUNDERS AVE					0.4					
103+63	RT	QUINN ST					15.9					
206+67	RT	CHAPMAN AVE							1.9			
211+32	LT	CHAPMAN AVE							8.9			
224+69	LT	DOWNS DR							0.2			
224+81	LT	DOWNS DR							0.2			
189+46	RT	PAWLEY AVE							0.2			
59+72	LT	TANGERINE DR							15.8			
186+80	LT	PAWLEY AVE							16.3			
184+32	LT	PAWLEY AVE							20.8			
185+77	LT	PAWLEY AVE							14.5			
226+59	LT	DOWNS DR							0.2			
SUBTOTAL :			178		0		91		79			

<p align="center">REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>----</td> <td>----</td> <td>----</td> <td>----</td> </tr> </tbody> </table>				DATE	DESCRIPTION	DATE	DESCRIPTION	----	----	----	----	ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	<p align="center">CITY OF BONITA SPRINGS</p> <table border="1"> <thead> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> </thead> <tbody> <tr> <td>----</td> <td></td> <td>----</td> </tr> </tbody> </table>	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	----		----	<p align="center">SUMMARY OF DRIVEWAYS</p>	SHEET NO. 105
DATE	DESCRIPTION	DATE	DESCRIPTION																		
----	----	----	----																		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID																			
----		----																			

SUMMARY OF PERMANENT DRIVEWAYS

LOCATION			MATERIAL								DESIGN NOTES	CONSTRUCTION REMARKS
			CONCRETE (SY)		ASPHALT (TN)		BRICK (SY)		GRAVEL (SY)			
STA. OF DRIVEWAY	SIDE	STREET	0522 2		0334 1 AA		BRICK (SY)		GRAVEL (SY)			
			P	F	P	F	P	F	P	F		
170+20	LT	SAUNDERS AVE							3.6			
148+56	RT	MCKENNA AVE							10.3			
151+00	RT	MCKENNA AVE							12.2			
150+62	RT	MCKENNA AVE							7.5			
150+13	RT	MCKENNA AVE							17.6			
149+28	RT	MCKENNA AVE							9.2			
149+64	RT	MCKENNA AVE							9.4			
145+00	LT	MCKENNA AVE							23.5			
SUBTOTAL:			0		0		0		93			
TOTAL:			581		62		91		172			

REVISIONS				ENGINEER OF RECORD FULL NAME, P.E. P.E. LICENSE NUMBER 00000 AMERICAN STRUCTUREPOINT INC. 5405 CYPRESS CENTER DR., SUITE 310 TAMPA, FL 33609 CERTIFICATE OF AUTHORIZATION 00000000	CITY OF BONITA SPRINGS			SUMMARY OF DRIVEWAYS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		106
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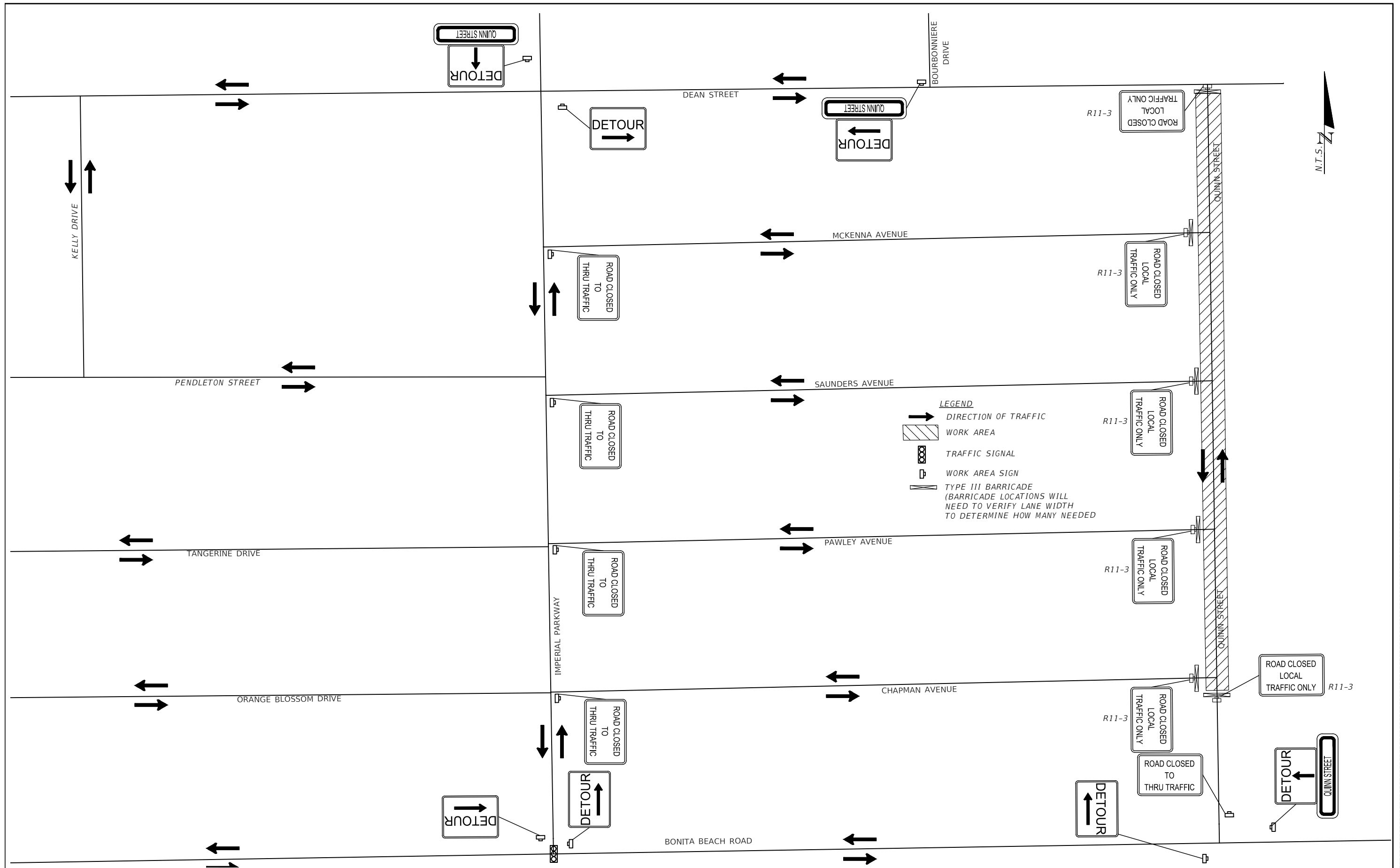
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PROFESSIONAL OF RECORD:
 ####, P.E.# ####
 COMPANY, ####
 ####
 CITY, STATE ZIP
 CERTIFICATION OF AUTHORIZATION# 99999

CITY OF BONITA SPRINGS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
----		----

TEMPORARY TRAFFIC
 CONTROL PLAN
 (LIME ST. DETOUR)

SHEET NO.
 107



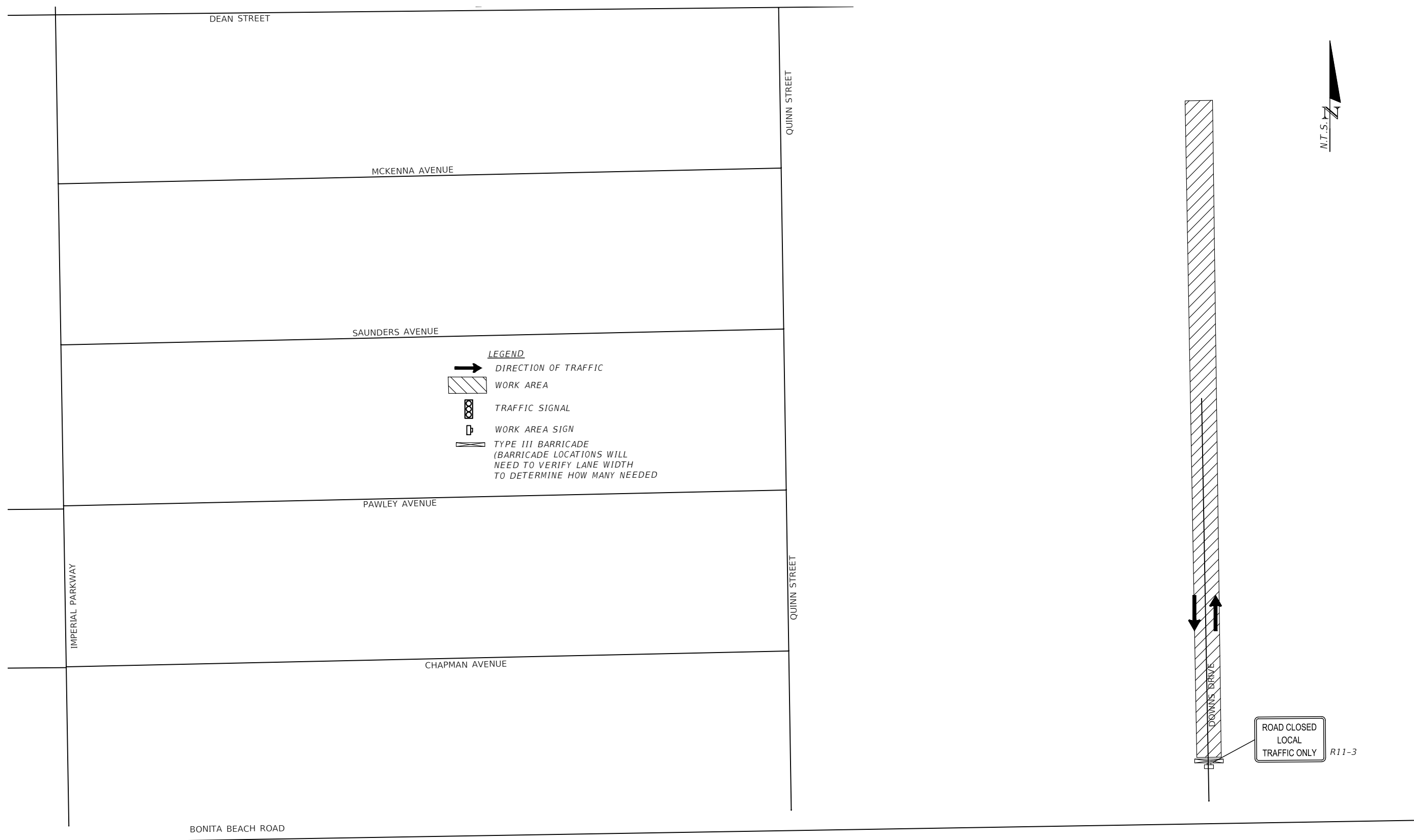
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PROFESSIONAL OF RECORD:
 ###, P.E.# ###
 COMPANY, ###
 ###
 CITY, STATE ZIP
 CERTIFICATION OF AUTHORIZATION# 99999

CITY OF BONITA SPRINGS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
----		----

TEMPORARY TRAFFIC CONTROL PLAN
 (QUINN ST. DETOUR)

SHEET NO.
 108

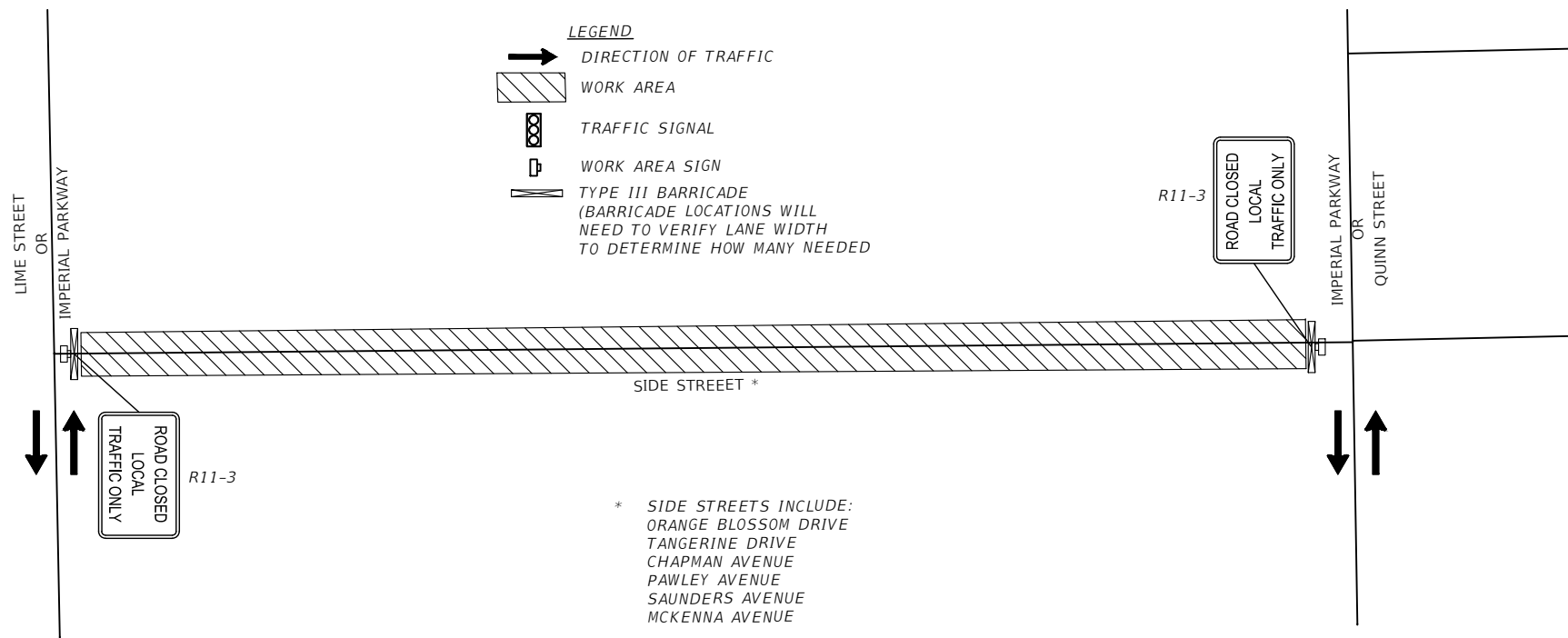


LEGEND

- DIRECTION OF TRAFFIC
- WORK AREA
- TRAFFIC SIGNAL
- WORK AREA SIGN
- TYPE III BARRICADE
(BARRICADE LOCATIONS WILL NEED TO VERIFY LANE WIDTH TO DETERMINE HOW MANY NEEDED)

ROAD CLOSED
LOCAL
TRAFFIC ONLY R11-3

REVISIONS				PROFESSIONAL OF RECORD: ###, P.E.# ### COMPANY, ### ### CITY, STATE ZIP CERTIFICATION OF AUTHORIZATION# 99999	CITY OF BONITA SPRINGS			TEMPORARY TRAFFIC CONTROL PLAN (DOWNS DR.)	SHEET NO. 109
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					----		----		



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PROFESSIONAL OF RECORD:
 ###, P.E.# ###
 COMPANY, ###
 ###
 CITY, STATE ZIP
 CERTIFICATION OF AUTHORIZATION# 99999

CITY OF BONITA SPRINGS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
----		----

TEMPORARY TRAFFIC CONTROL PLAN ROAD CLOSURE

SHEET NO.
110