

SHOPPES OF BAY ISLES

FINAL SITE RECORD DRAWINGS

SECTION 8, TOWNSHIP 36 SOUTH, RANGE 17 EAST
TOWN OF LONGBOAT KEY, FLORIDA

LOCATION MAP



PREPARED FOR:

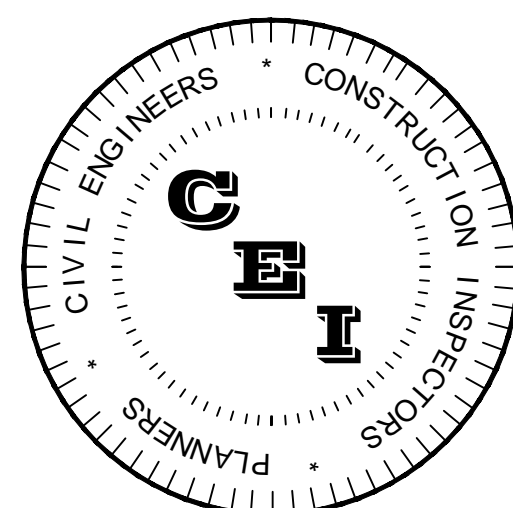
PUBLIX SUPER MARKETS, INC.
MICHAEL LEEDS C/O RMC DEVELOPMENT SERVICES, LLC
8902 NORTH DALE MABRY HWY, SUITE 200
TAMPA, FLORIDA 33614
(813) 960-8154

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REVISIONS:

1.	
2.	
3.	
4.	
5.	
6.	



PREPARED BY:

CAMPO
ENGINEERING, INC.

1725 East 5th Avenue, Tampa, FL 33605
Phone (813) 215-7372 and Fax (813) 902-8782
www.campoengineering.com
info@campoengineering.com

FBPR CERTIFICATE OF AUTHORIZATION NO.: 26726

AS-BUILT INFORMATION PROVIDED BY
POINT BREAK SURVEYING, LLC

RECORD-AS-BUILT CERTIFICATION:
IN ACCORDANCE WITH CHAPTER 61015-20, FLORIDA ADMINISTRATIVE CODE (F.A.C.), I HEREBY CERTIFY THAT AT THE TIME OF FINAL INSPECTION, THE WATER, SEWER AND SURFACE WATER SYSTEMS DEPICTED ON THESE RECORD DRAWINGS ARE A DEPICTION OF THE SUBSTANTIALLY COMPLETED PROJECT AND ARE IN ACCORDANCE WITH THE PERMITTED CONSTRUCTION PLANS. ANY MINOR DEVIATIONS OBSERVED FROM THE PERMITTED PLANS AND SPECIFICATIONS WILL NOT PREVENT THE SYSTEM FROM FUNCTIONING IN COMPLIANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE AND/OR APPLICABLE STATE OF FLORIDA REGULATIONS.

NAME: MATTHEW D. CAMPO FL PE No.: S3988

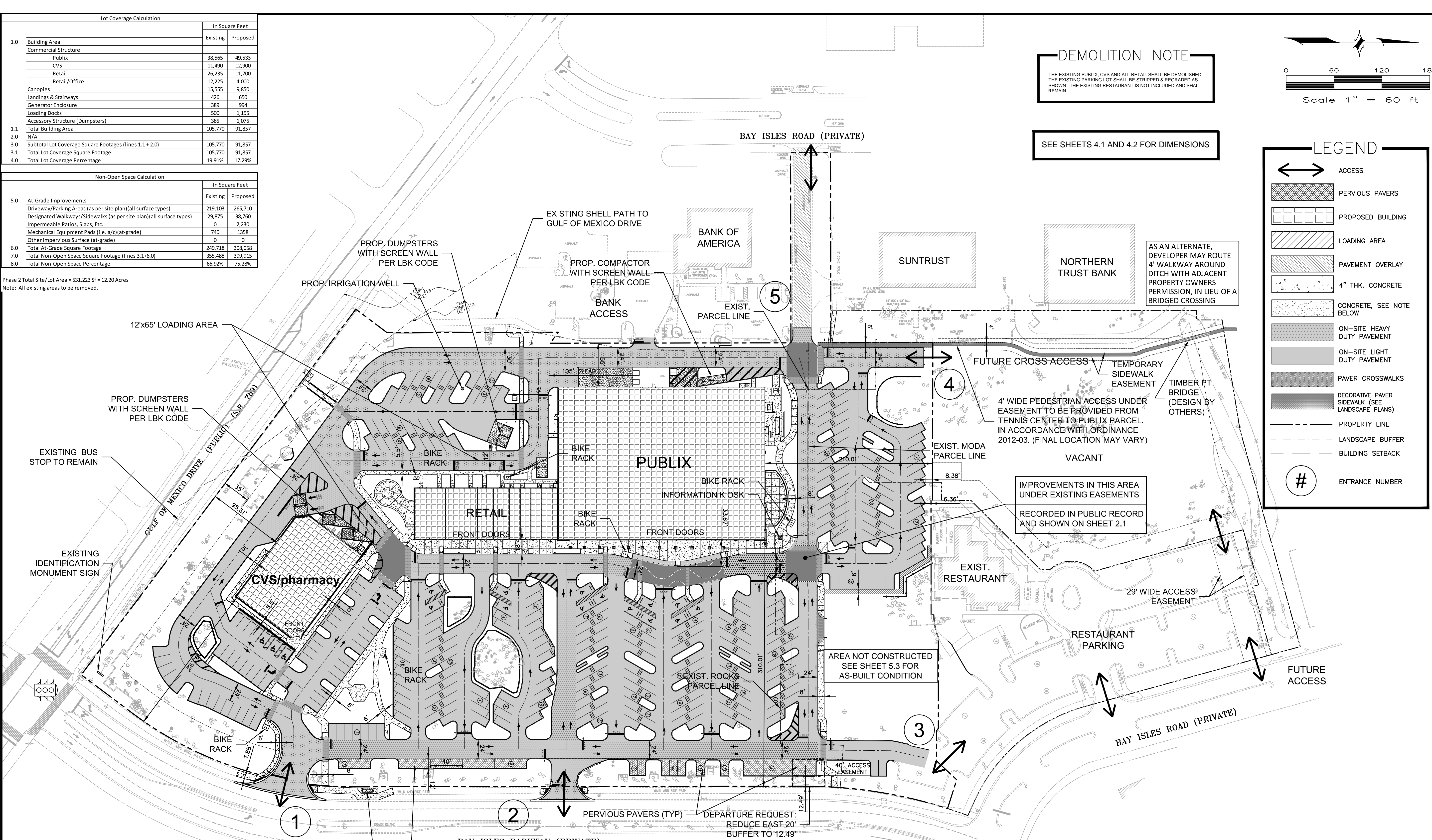
SIGNATURE: DATE: February 21, 2013

Notes:
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** Invert and Grade Elevation data depicted has been provided by the Contractor and/or the Project Surveyor.

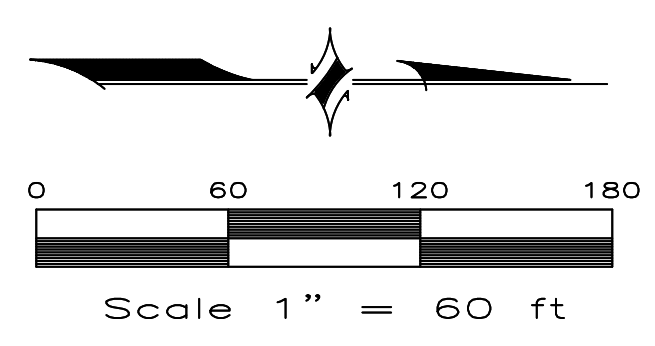
Lot Coverage Calculation			
1.0	Building Area	In Square Feet	
		Existing	Proposed
Commercial Structure			
	Publix	38,565	49,533
	CVS	11,490	12,900
	Retail	26,235	11,700
	Retail/Office	12,225	4,000
	Canopies	15,555	9,850
	Landings & Stairways	426	650
	Generator Enclosure	389	994
	Loading Docks	500	1,155
	Accessory Structure (Dumpsters)	385	1,075
1.1	Total Building Area	105,770	91,857
2.0	N/A		
3.0	Subtotal Lot Coverage Square Footage (lines 1.1 + 2.0)	105,770	91,857
3.1	Total Lot Coverage Square Footage	105,770	91,857
4.0	Total Lot Coverage Percentage	19.91%	17.29%

Non-Open Space Calculation			
5.0	At-Grade Improvements	In Square Feet	
		Existing	Proposed
Driveway/Parking Areas (as per site plan)(all surface types)			
		219,103	265,710
Designated Walkways/Sidewalks (as per site plan)(all surface types)			
		29,875	38,760
Impermeable Patios, Slabs, Etc.			
		0	2,230
Mechanical Equipment Pads (i.e. a/c)(at-grade)			
		740	1,358
Other Impervious Surface (at-grade)			
		0	0
6.0	Total At-Grade Square Footage	249,718	308,058
7.0	Total Non-Open Space Square Footage (lines 3.1+6.0)	355,488	399,915
8.0	Total Non-Open Space Percentage	66.92%	75.28%

Phase 2 Total Site/Lot Area = 531,223 SF = 12.20 Acres
 Note: All existing areas to be removed.

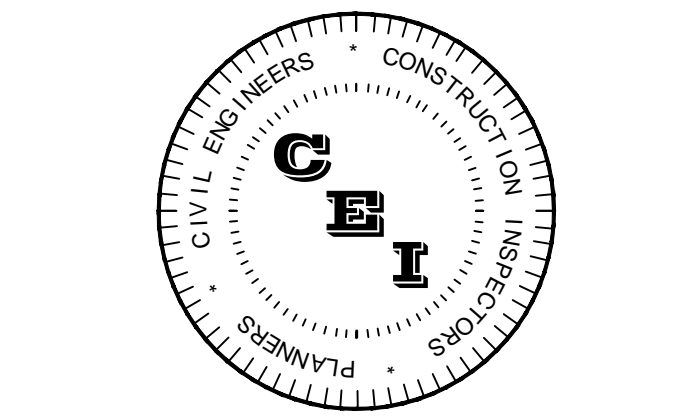


DEMOLITION NOTE
 THE EXISTING PUBLIX, CVS AND ALL RETAIL SHALL BE DEMOLISHED. THE EXISTING PARKING LOT SHALL BE STRIPPED & REGRADED AS SHOWN. THE EXISTING RESTAURANT IS NOT INCLUDED AND SHALL REMAIN.



SEE SHEETS 4.1 AND 4.2 FOR DIMENSIONS

LEGEND	
	ACCESS
	PERVIOUS PAVERS
	PROPOSED BUILDING
	LOADING AREA
	PAVEMENT OVERLAY
	4" THK. CONCRETE
	CONCRETE, SEE NOTE BELOW
	ON-SITE HEAVY DUTY PAVEMENT
	ON-SITE LIGHT DUTY PAVEMENT
	PAVER CROSSWALKS
	DECORATIVE PAVER SIDEWALK (SEE LANDSCAPE PLANS)
	PROPERTY LINE
	LANDSCAPE BUFFER
	BUILDING SETBACK
	ENTRANCE NUMBER



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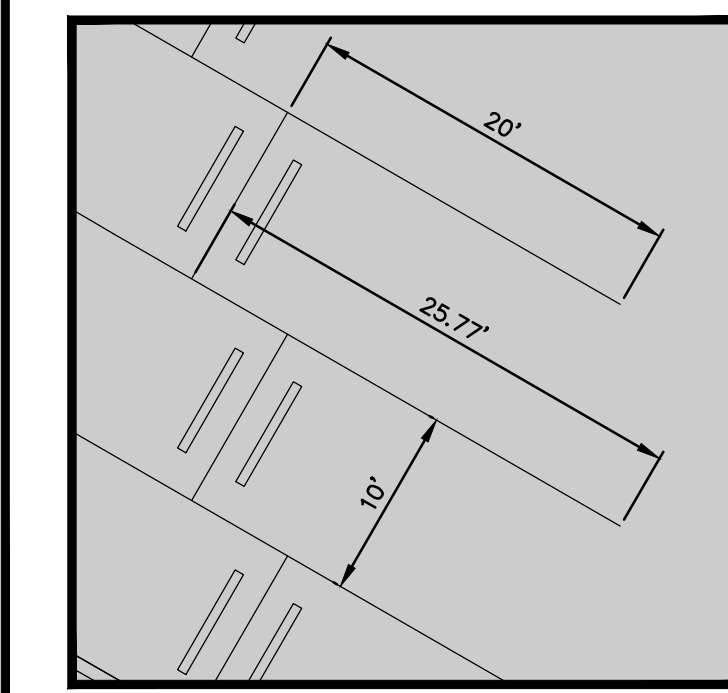
REVISIONS		
NO.	DESCRIPTION	DATE

ISSUE DATE: 5/2011
 REVIEWED BY: MDC
 DRAWN BY: JUB
 DESIGNED BY: BLM

PROJECT NUMBER
 11-007

Matthew D. Campo 53988 05/02/2012
 NAME SEAL NO. DATE

SHEET TITLE
OVERALL SITE PLAN
 SHEET NUMBER
4.1



TYPICAL PARKING SPACE DIMENSIONS
 SCALE: 1" = 10'

- GENERAL NOTES**
- THE PROPOSED ACTIVITIES SHALL COMPLY WITH THE TOWN OF LONGBOAT KEY DEVELOPMENT REGULATIONS INCLUDING THE TREE AND LANDSCAPE CODE, STORM WATER MANAGEMENT REGULATIONS AND FIRE CODES AT THE TIME OF PERMITTING.
 - THERE ARE NO WETLAND AREAS WITHIN THE PROJECT BOUNDARIES.
 - ALL SIGNAGE SHALL COMPLY WITH THE TOWN OF LONGBOAT KEY SIGNAGE CODES.
 - ALL BUILDING CONSTRUCTION SHALL CONFORM TO THE FLORIDA BUILDING CODE.
 - OPERATION AND MAINTENANCE OF STORM WATER AREAS PERFORMED BY THE PROPERTY OWNER.
 - ALL EASEMENTS SHALL BE DEDICATED TO THE APPROPRIATE ENTITY AND ALL ROADS SHALL BE PRIVATE.
 7. SITE ACCESS HAS BEEN DESIGNED FOR EMERGENCY AND PARATRANSIT VEHICLES.
 - ALL PROPOSED SIDEWALKS SHALL MEET ADA REQUIREMENTS. CONTRACTOR TO VERIFY INSTALLATION.
 - WATER AND SEWER SERVICES SHALL BE PRIVATELY OWNED AND MAINTAINED.
 - SOLID WASTE COLLECTION SERVICE WILL BE AT THE PROPOSED COMPACTOR AND DUMPSTERS SHOWN.
 - PROPOSED BUILDINGS ARE 1-STORY STRUCTURES.
 - SURVEY PREPARED BY GEORGE F. YOUNG.
 - CONTRACTOR SHALL UTILIZE THE SERVICES OF A LICENSED FLORIDA SURVEYOR IN ORDER TO STAKE OUT LOCATION AND GRADE OF ALL SITE IMPROVEMENTS BASED ON THE DIGITAL AUTOCAD FILES FOR THIS PROJECT PROVIDED BY ENGINEER.
 - GENERAL HURRY AND DEMOLITION: ENGAGING IN CONSTRUCTION OR DEMOLITION ON SUNDAY, ON ANY HOLIDAY, OR BETWEEN THE HOURS OF 5:00 PM AND 8:00 AM MONDAY THROUGH SATURDAY EXCEPT FOR EMERGENCY WORK BY A PUBLIC SERVICE UTILITY OR BY OTHER PERMIT APPROVED BY THE TOWN. THIS SUBSECTION SHALL NOT APPLY TO THE USE OF DOMESTIC POWER TOOLS AS SPECIFIED IN SUBSECTION (J) OF THIS SECTION.
 - FIRE DEPT. ACCESS SHALL BE MAINTAINED 24/7 DURING CONSTRUCTION (ACCESS THROUGH SECURITY FENCING WILL BE REQUIRED).
 - THE FOLLOWING CODES ARE IN EFFECT AS OF 12/31/2011:
 - a. FLORIDA FIRE PREVENTION CODE: 2010 EDITION
 - b. NFPA 24
 - NO MERCHANDISE TO BE PLACED INSIDE BUILDING PRIOR TO ACCEPTANCE TESTING AND APPROVAL OF ALL LIFE SAFETY SYSTEMS.
 - ALL PALLETS STORED INSIDE.
 - CONTRACTOR SHALL IMMEDIATELY REPAIR ANY WELL / IRRIGATION LINES TO FUNCTIONING CONDITION. EXISTING WELLS AND IRRIGATION PIPING MUST REMAIN ACTIVE.
 - THE DEVELOPMENT/CONSTRUCTION PLANS SHALL CONFORM TO THE FLORIDA BUILDING CODE AND ALL OTHER APPLICABLE CODES & ORDINANCES PERTAINING TO, BUT NOT LIMITED TO, TOWN CHAPTER 154 FLOOD CONTROL, FEDERAL ADA, AND FLORIDA ACCESSIBILITY CODES.
 - THE SIDEWALK TO THE NORTH AT THE ENTRANCE OF THE SUBJECT SITE FROM BAY ISLES ROAD SHALL BE CONSTRUCTED WITH DECORATIVE PAVING.

SITE DATA TABLE

ZONING:	PD
CURRENT USE:	SHOPPING CENTER
PARCEL ID:	0006-13-0007, 0006-13-0012 & 0007-04-0005
ADDRESS:	525 BAY ISLES PARKWAY
PROPOSED USES:	SHOPPING CENTER (GROCERY, DRUG STORE, RETAIL, OFFICE)
REQUIRED:	MINIMUM LOT AREA: 30,000 SF
PROPOSED:	531,223 SF (12.20 AC)
REQUIRED:	MIN. LOT DEPTH: 150'
PROPOSED:	555'
REQUIRED:	MAX. GROSS RES. DENSITY: N/A
PROPOSED:	755'
REQUIRED:	MIN. STREET YARD BUILDING SETBACK: 35'
PROPOSED:	83' (SOUTH)
REQUIRED:	MIN. SIDE YARD BUILDING SETBACK: 50'/20'(A)
PROPOSED:	210' (NORTH)
REQUIRED:	MIN. REAR YARD BUILDING SETBACK: 25'
PROPOSED:	55' (WEST)
REQUIRED:	MIN. FLOOR AREA: N/A
PROPOSED:	3,400
REQUIRED:	MAXIMUM HEIGHT: 36'8" PUBLIX/28' CVS
PROPOSED:	36'8" PUBLIX/28' CVS

(A) THIS NOTE CLARIFIES THIS REQUIREMENT AND SAYS "IF OUR SITE ADJOINS ANOTHER COMMERCIAL USE OR DISTRICT THEN NO SIDE YARD SETBACK IS REQUIRED. HOWEVER, IF ONE IS PROVIDED IT SHALL BE 15'. IF A COMMERCIAL USE ADJOINS A RESIDENTIAL USE OR DISTRICT THE MINIMUM SIDE YARD SETBACK IS 30' (WHICH ONLY WOULD CURRENTLY APPLY TO THE VACANT LOT).

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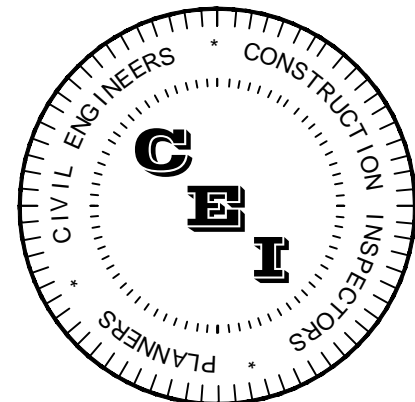
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NAME:	MATTHEW D. CAMPO
FL PE No.:	53988
DATE:	February 21, 2013
SIGNATURE:	
DATE:	

REQUIREMENTS: 1 SPACE PER 400 SF = 10 SPACES
 PROPOSED: STANDARD SPACES = 25
 HANDICAP SPACES = 1
 PROPOSED TOTAL = 25

REQUIREMENTS: 1 SPACE PER 400 SF = 37 SPACES
 PROPOSED: STANDARD SPACES = 52
 HANDICAP SPACES = 3
 PROPOSED TOTAL = 55

PUBLIX & RETAIL: 1 SPACE PER 400 SF = 154 SPACES
 REQUIRED: 1 SPACE PER 400 SF = 154 SPACES
 PROPOSED: STANDARD SPACES = 295
 HANDICAP SPACES = 13
 PROPOSED TOTAL = 308

TOTAL SITE REQUIRED: 201 SPACES TOTAL SITE PROPOSED: 388 SPACES
 REQUIRED ADA SPACES: 8 SPACES PROPOSED ADA SPACES: 17 SPACES
 FLOOD ZONE A13 (ELEV 11) PER FIRM 1251260010B



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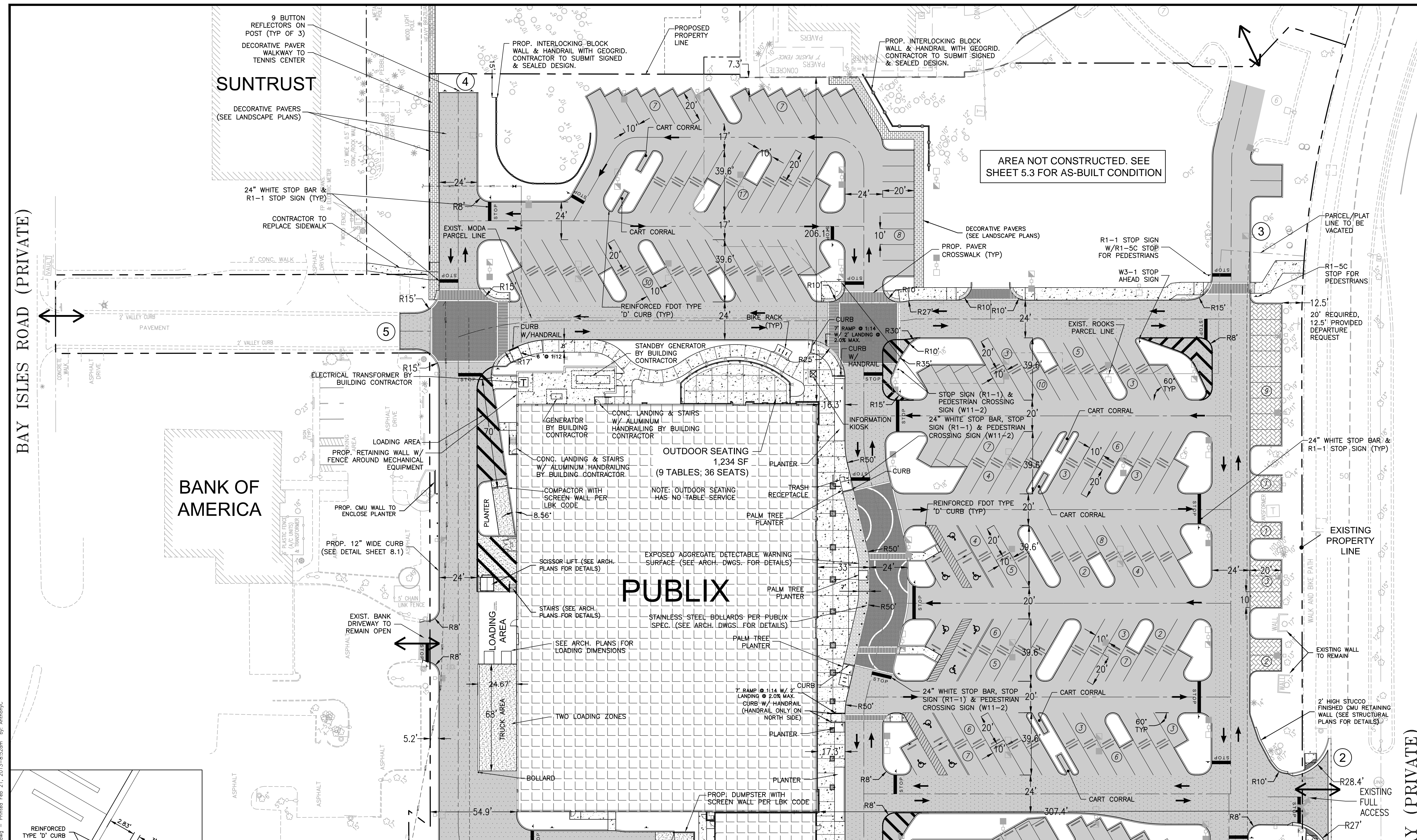
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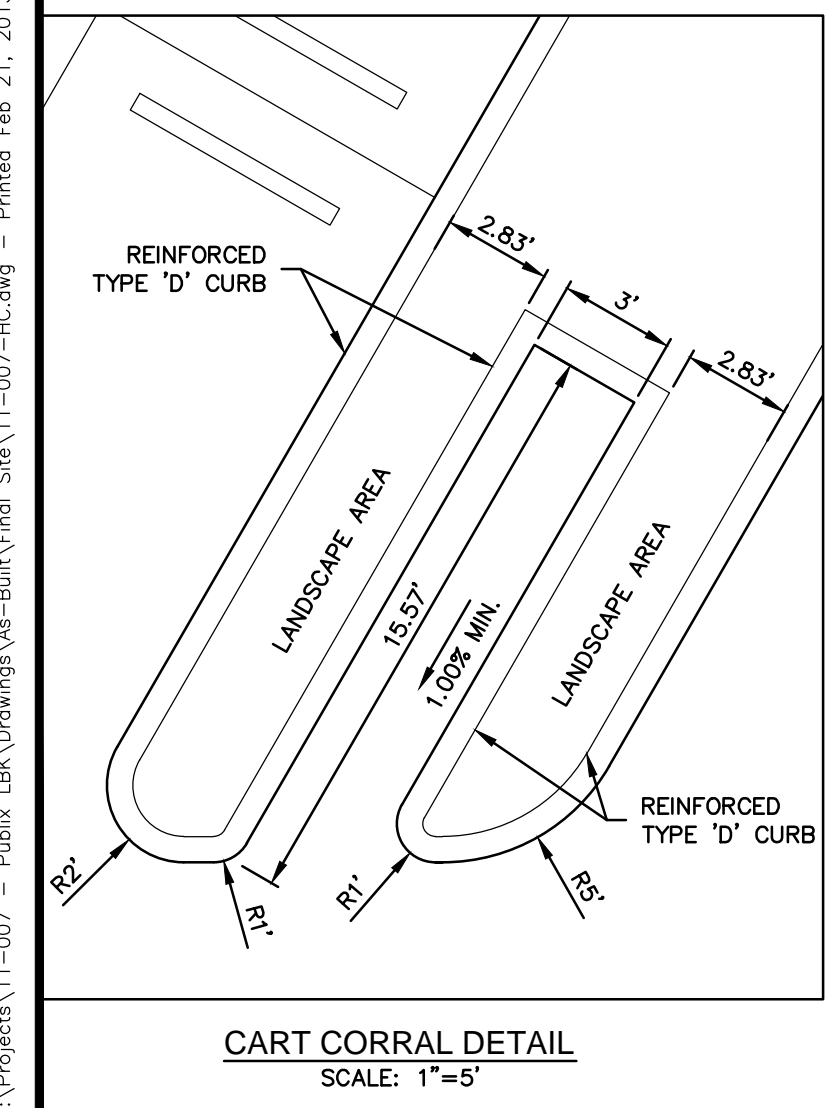
HORIZONTAL CONTROL PLAN

SHEET NUMBER

5.1



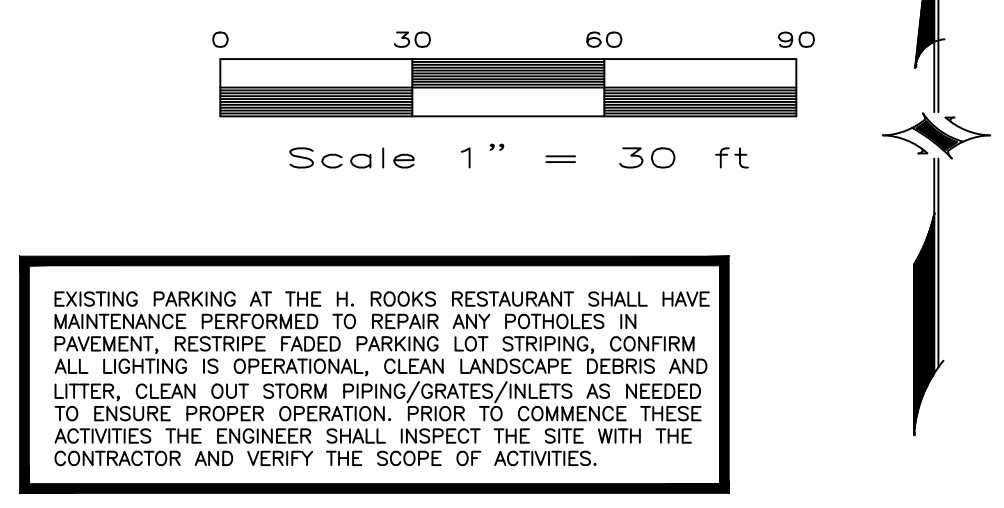
MATCHLINE A-A SEE SHEET 5.2 FOR CONTINUATION



LEGEND

	PROPOSED BUILDING		ON-SITE LIGHT DUTY PAVEMENT		PROPERTY LINE
	EXISTING BUILDING		PERVIOUS PAVERS		LANDSCAPE BUFFER
	4" THK. CONCRETE		PAVER CROSSWALKS		BUILDING SETBACK
	CONCRETE, SEE NOTE BELOW		DECORATIVE PAVER SIDEWALK (SEE LANDSCAPE PLANS)		TRANSFORMER
	ON-SITE HEAVY DUTY PAVEMENT		BIKE RACK		ENTRANCE NUMBER

CONCRETE NOTES:
1. FOR ONSITE, SEE PUBLIX PROTOTYPICAL DWGS FOR THICKNESS. FOR OFFSITE, 6" THK UNLESS OTHERWISE NOTED.



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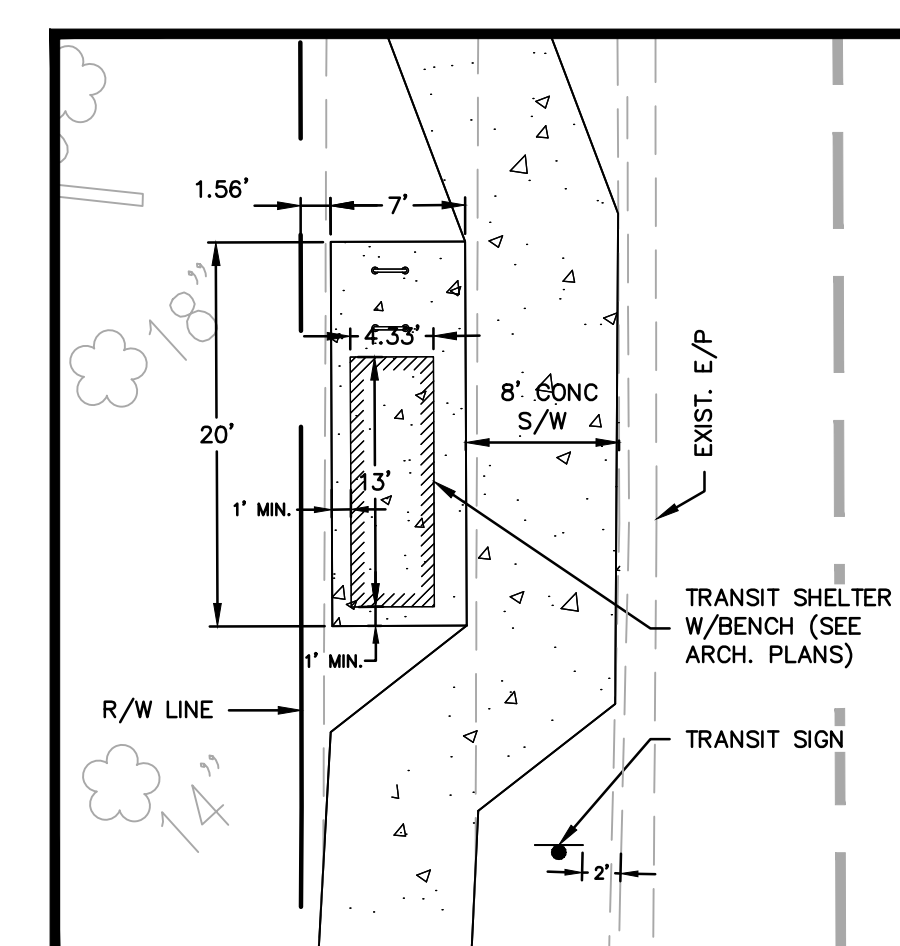
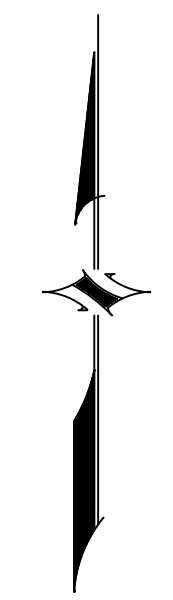
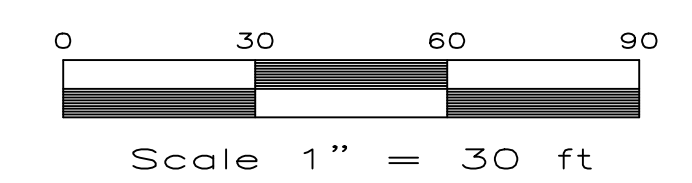
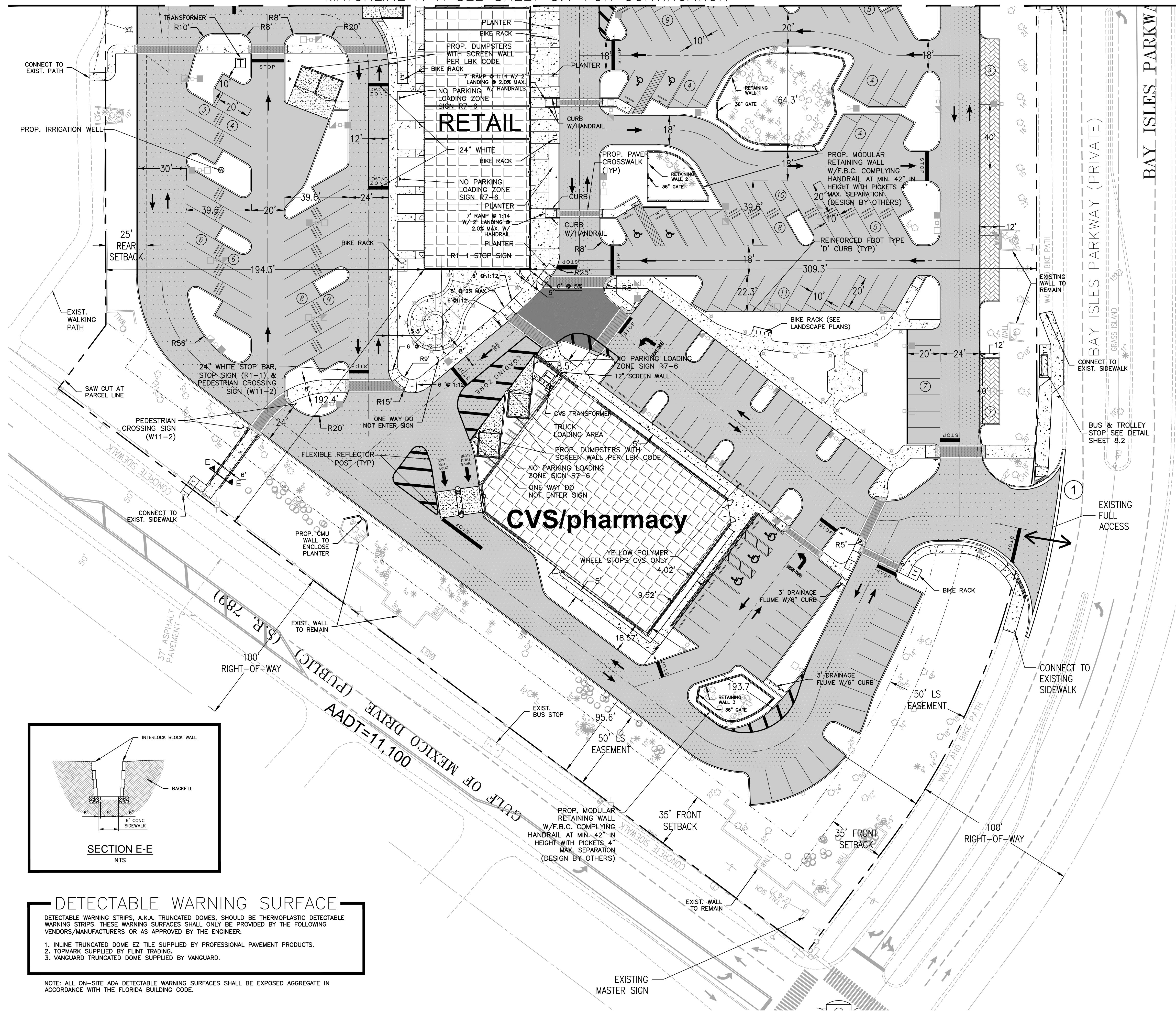
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MATCHLINE A-A SEE SHEET 5.1 FOR CONTINUATION



BUS/TROLLEY STOP ENLARGED PLAN
SCALE 1"=10'

LEGEND

	PROPOSED BUILDING
	EXISTING BUILDING
	4" THK. CONCRETE
	CONCRETE, SEE NOTE BELOW
	ON-SITE HEAVY DUTY PAVEMENT
	ON-SITE LIGHT DUTY PAVEMENT
	PERVIOUS PAVERS
	PAVER CROSSWALKS
	PROPERTY LINE
	LANDSCAPE BUFFER
	BUILDING SETBACK
	TRANSFORMER
	BIKE RACK
	ENTRANCE NUMBER

CONCRETE NOTES:
1. FOR ON-SITE, SEE PUBLIX PROTOTYPICAL DWGS FOR THICKNESS. FOR OFF-SITE, 6" THK UNLESS OTHERWISE NOTED.

NOTE: GATES AT THE DUMPSTER ENCLOSURES TO HAVE STOP STAKES & HOLES DRILLED IN CONCRETE TO ALLOW GATES TO REMAIN OPEN DURING TRASH COLLECTION.

NOTE: CONTRACTOR TO CONTACT ANDREW KANDY WITH WASTE MANAGEMENT AT 941-650-4078 PRIOR TO TRELIS INSTALL AT CVS.

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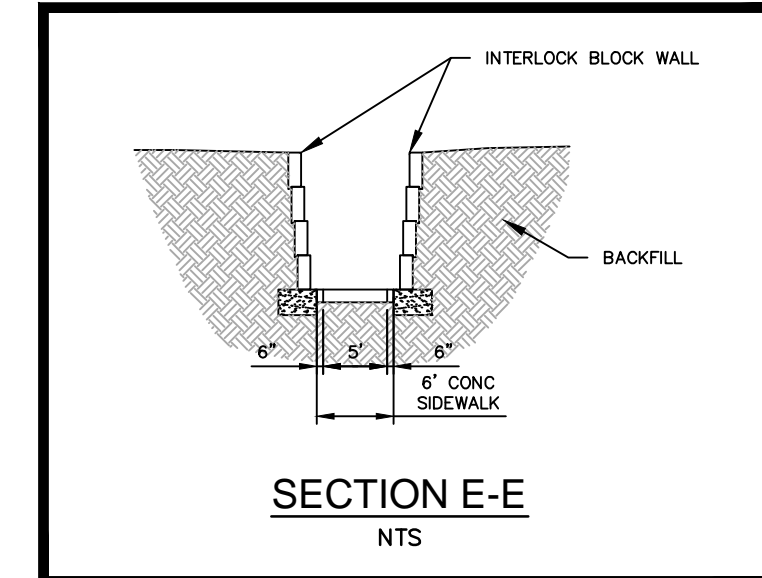
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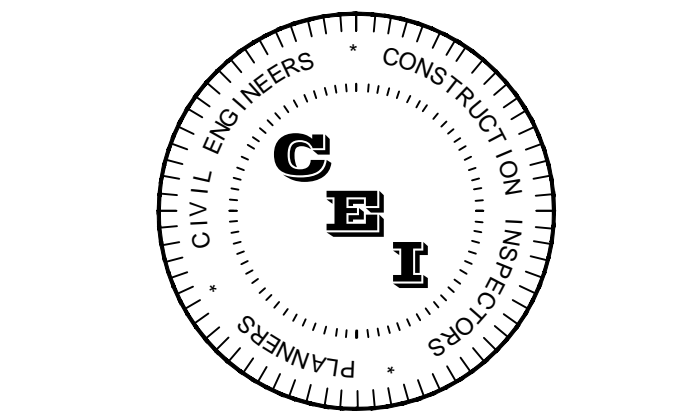


DETECTABLE WARNING SURFACE

DETECTABLE WARNING STRIPS, A.K.A. TRUNCATED DOMES, SHOULD BE THERMOPLASTIC DETECTABLE WARNING STRIPS. THESE WARNING SURFACES SHALL ONLY BE PROVIDED BY THE FOLLOWING VENDORS/MANUFACTURERS OR AS APPROVED BY THE ENGINEER:

1. INLINE TRUNCATED DOME EZ TILE SUPPLIED BY PROFESSIONAL PAVEMENT PRODUCTS.
2. TOPMARK SUPPLIED BY FLINT TRADING.
3. VANGUARD TRUNCATED DOME SUPPLIED BY VANGUARD.

NOTE: ALL ON-SITE ADA DETECTABLE WARNING SURFACES SHALL BE EXPOSED AGGREGATE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE.



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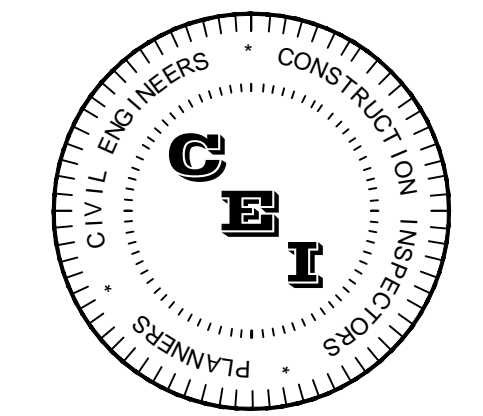
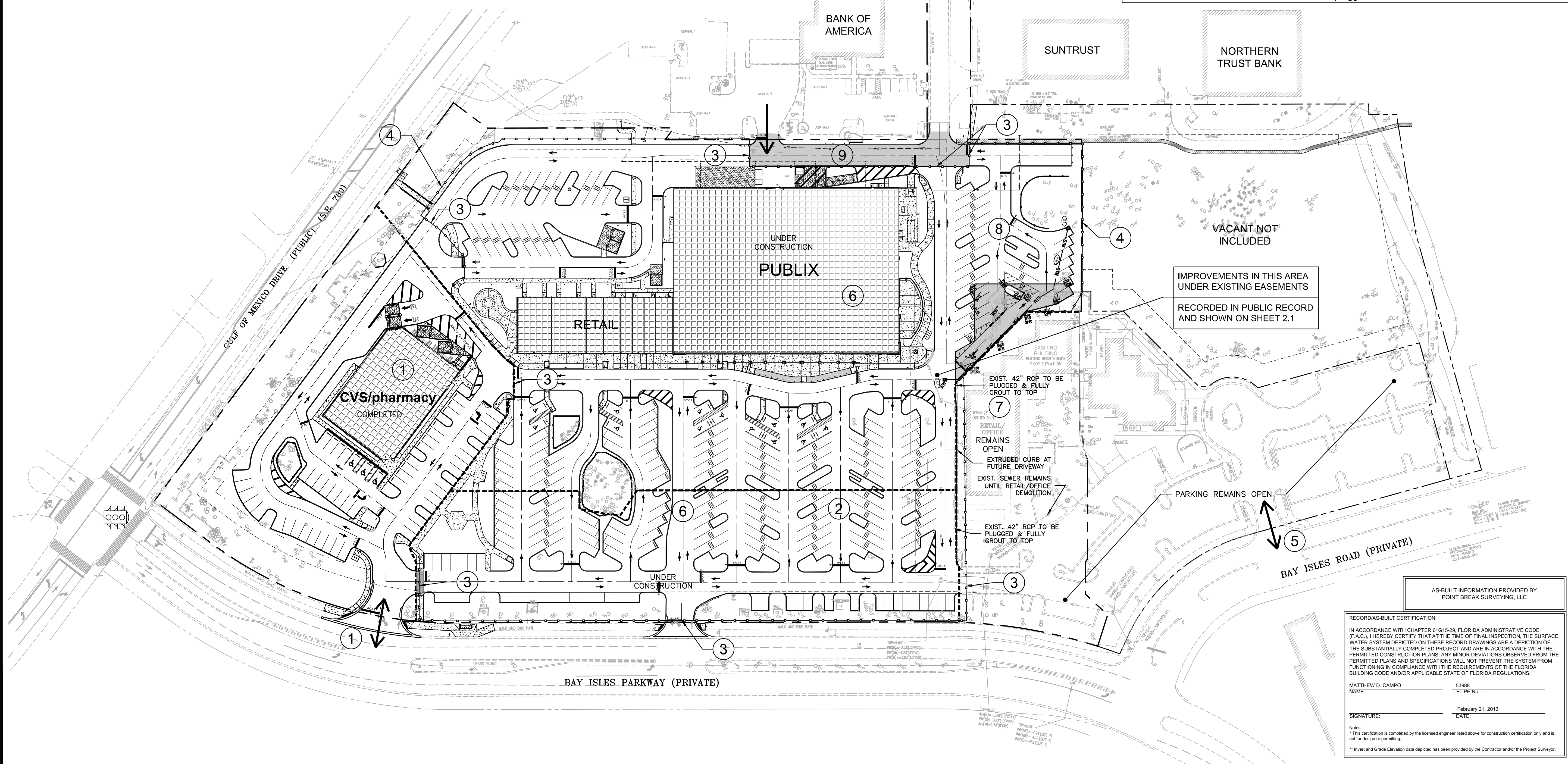
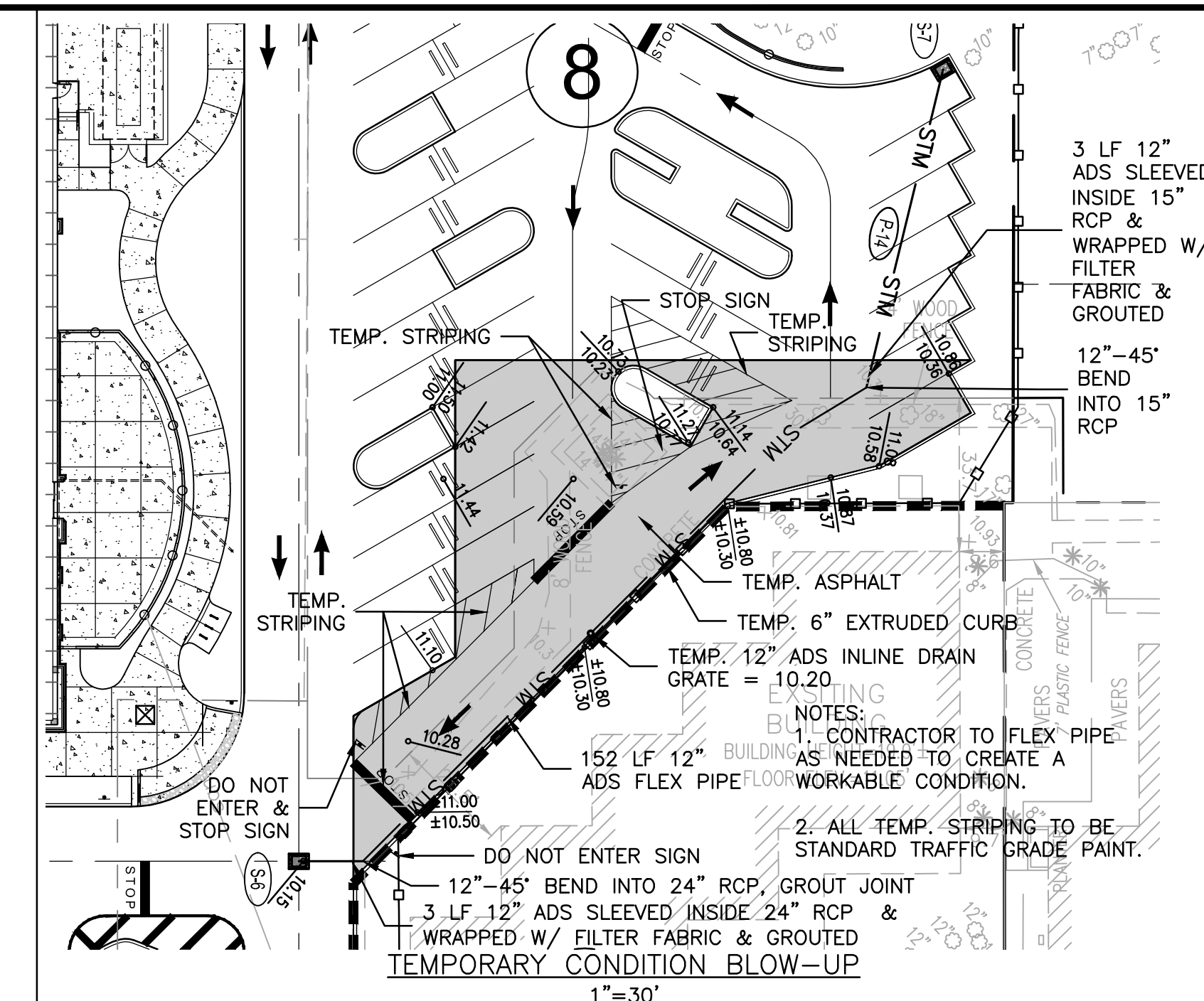
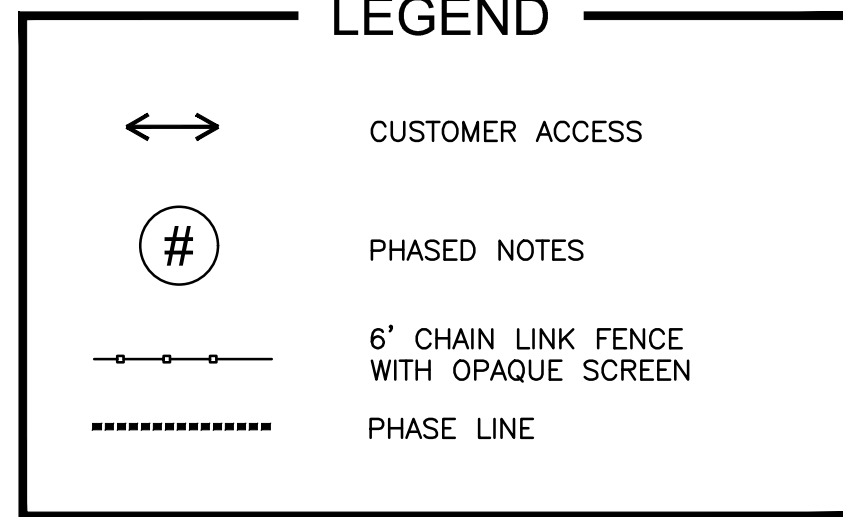
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5.2

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PHASING NOTES

- ① CVS OPENS AND ACCESS ON BAY ISLES PARKWAY IS OPEN TO CUSTOMERS.
- ② EXISTING CVS BUILDING IS DEMOLISHED.
- ③ 20' GATED ACCESS FOR CONSTRUCTION.
- ④ 6' CHAIN LINK FENCE WITH OPAQUE SCREEN AND SILT FENCE AT GRADE FOR EROSION AND SEDIMENT CONTROL.
- ⑤ EXISTING ACCESS MAINTAINED DURING PHASE 2 AND 3 CONSTRUCTION.
- ⑥ PUBLIX BUILD CONTINUES CONSTRUCTION AND FULL PARKING AREA IS UNDER CONSTRUCTION. PUBLIX OPENS END OF PHASE 3. RETAIL SHELL IS COMPLETED END OF PHASE 3.
- ⑦ RETAIL / OFFICE REMAINS OPEN FOR TENANTS. PARKING AVAILABLE IS SHARED WITH H. ROOKS RESTAURANT.
- ⑧ PARKING AREA IS PARTIALLY COMPLETED AND STRIPED FOR TEMPORARY ACCESS. (ON NORTH SIDE ONLY)
- ⑨ TEMPORARY PAVED ACCESS MAINTAINED TO BANK OF AMERICA DURING CONSTRUCTION.

LEGEND



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PHASE 3 PLAN

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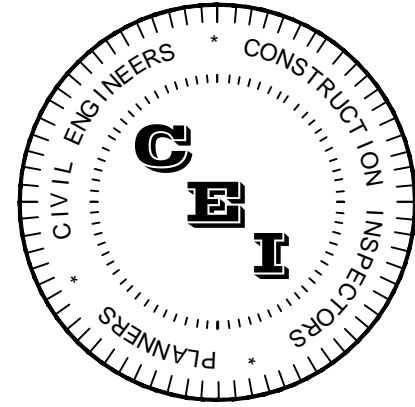
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G:\Projects\11-007 - Publix_LBK\Drawings\As-Built\Final_SMA\11-007-PhasePlan_Phase3.dwg - Printed Feb. 21, 2012 8:53:33am by: Anthony C



CAMPO ENGINEERING, INC.

FBPR CERTIFICATE OF AUTHORIZATION NO.: 26726

1725 EAST 5TH AVENUE
TAMPA, FL 33605
PHONE: (813) 215-7372
FAX: (813) 902-8782

PROJECT TITLE

SHOPPES OF BAY ISLES

TOWN OF LONGBOAT KEY

CLIENT
PUBLIX SUPER MARKETS, INC.
C/O RMC DEVELOPMENT SERVICES, LLC
8902 NORTH DALE MABRY HWY
SUITE 200
TAMPA, FL 33614

REVISIONS

NO.	DESCRIPTION	DATE

ISSUE DATE: 5/2011

REVIEWED BY: MDC

DRAWN BY: JUB

DESIGNED BY: BLM

PROJECT NUMBER

11-007

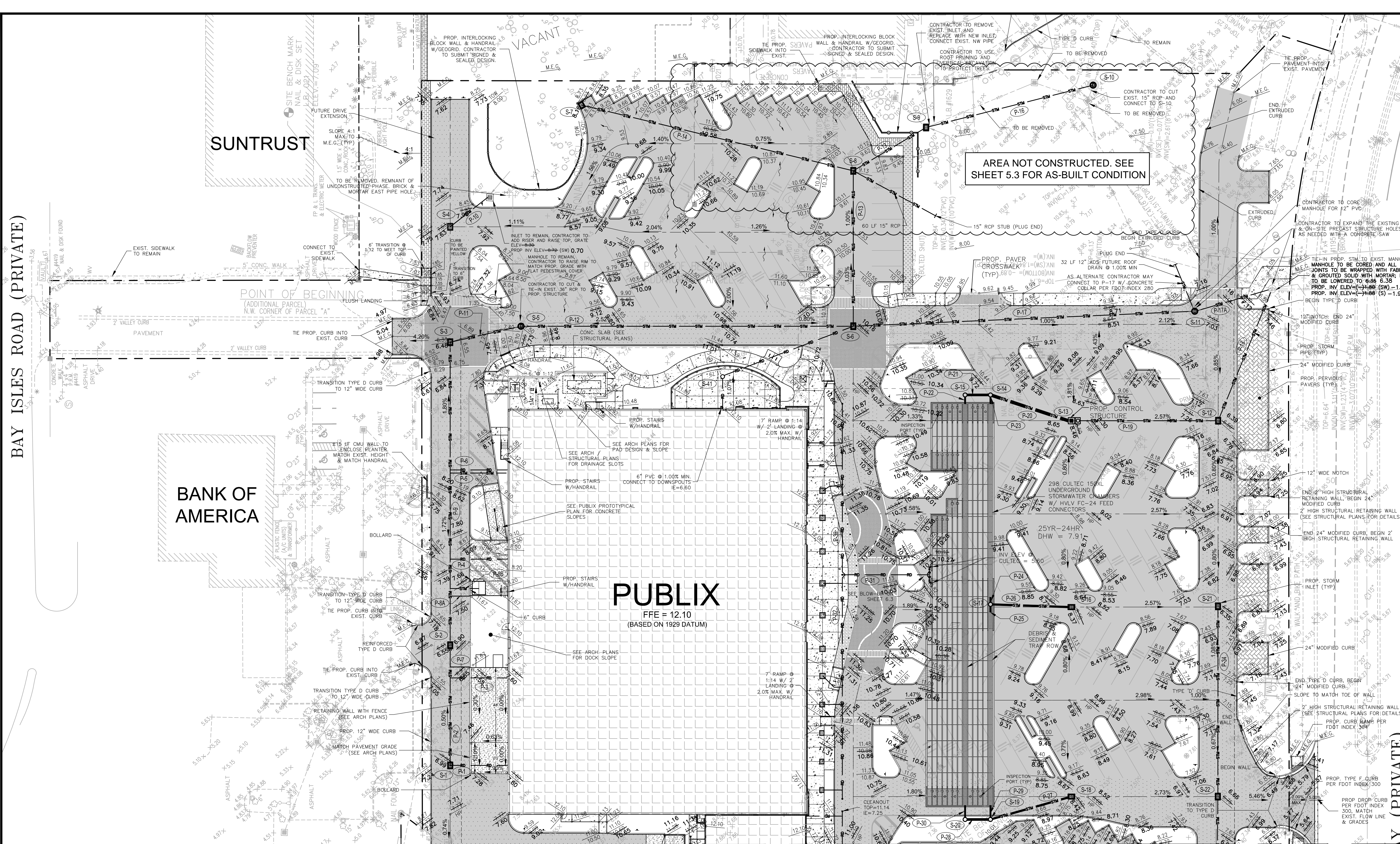
Matthew D. Campo 53988 05/02/2012
NAME SEAL NO. DATE

SHEET TITLE

**PAVING, GRADING
& DRAINAGE PLAN**

SHEET NUMBER

6.1



BAY ISLES ROAD (PRIVATE)

SUNTRUST

BANK OF AMERICA

PUBLIX
FFE = 12.10
(BASED ON 1929 DATUM)

AREA NOT CONSTRUCTED. SEE SHEET 5.3 FOR AS-BUILT CONDITION

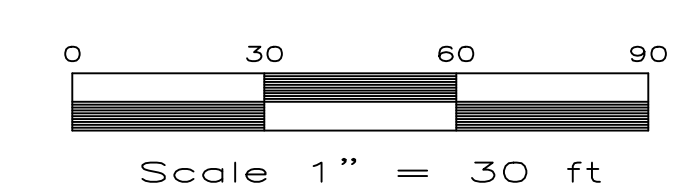
MATCHLINE A-A SEE SHEET 3 FOR CONTINUATION

Y (PRIVATE)

LEGEND

	PROPOSED BUILDING		ON-SITE HEAVY DUTY PAVEMENT		PROPOSED GRADE
	LOADING AREA		ON-SITE LIGHT DUTY PAVEMENT		TOP OF CURB/ BOTTOM OF CURB
	4" THK. CONCRETE		DECORATIVE PAVER SIDEWALK (SEE LANDSCAPE PLANS)		MATCH EXISTING GRADE
	CONCRETE, SEE NOTE BELOW		PROPERTY LINE		FLOW DIRECTION
	PERVIOUS PAVERS		SILT FENCE		PROPOSED INLET
	PAVER CROSSWALKS		PROPOSED STORM SEWER		TRANSFORMER
			PROPOSED HIGH POINT		
			PROPOSED LOW POINT		

CONCRETE NOTES:
FOR ONSITE, SEE PUBLIX PROTOTYPICAL DWGS FOR THICKNESS.
FOR OFFSITE, 6" THK UNLESS OTHERWISE NOTED.



RECORD DRAWING/AS-BUILT AND ✓
AS-BUILT INFORMATION PROVIDED BY POINT BREAK SURVEYING, LLC

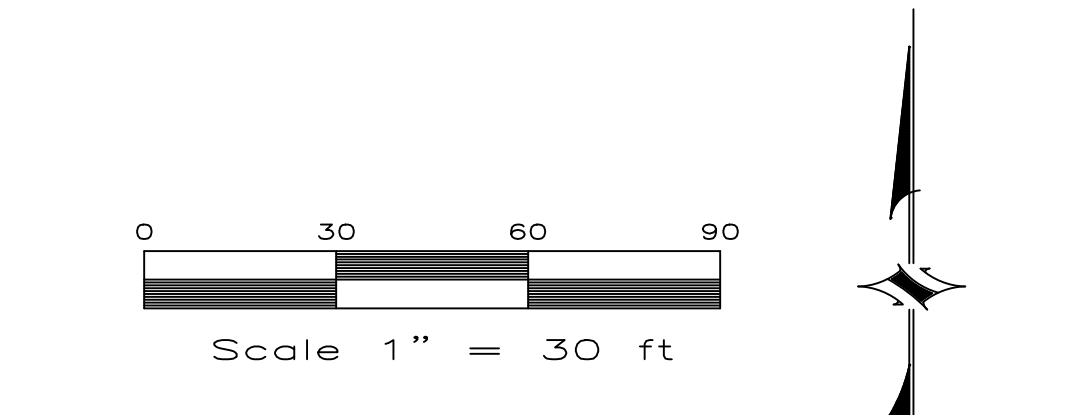
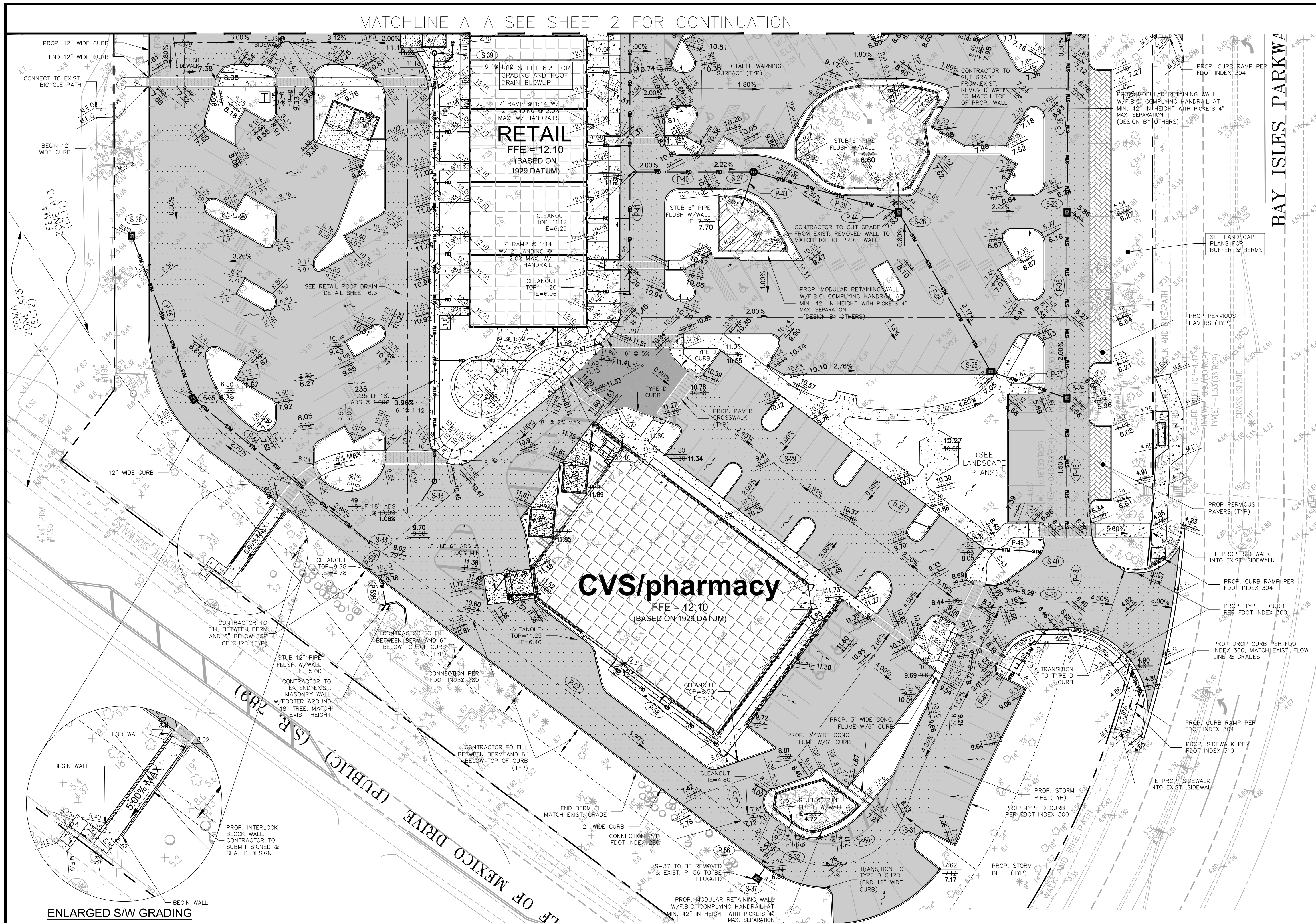
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MATTHEW D. CAMPO 53988
DATE: February 21, 2013

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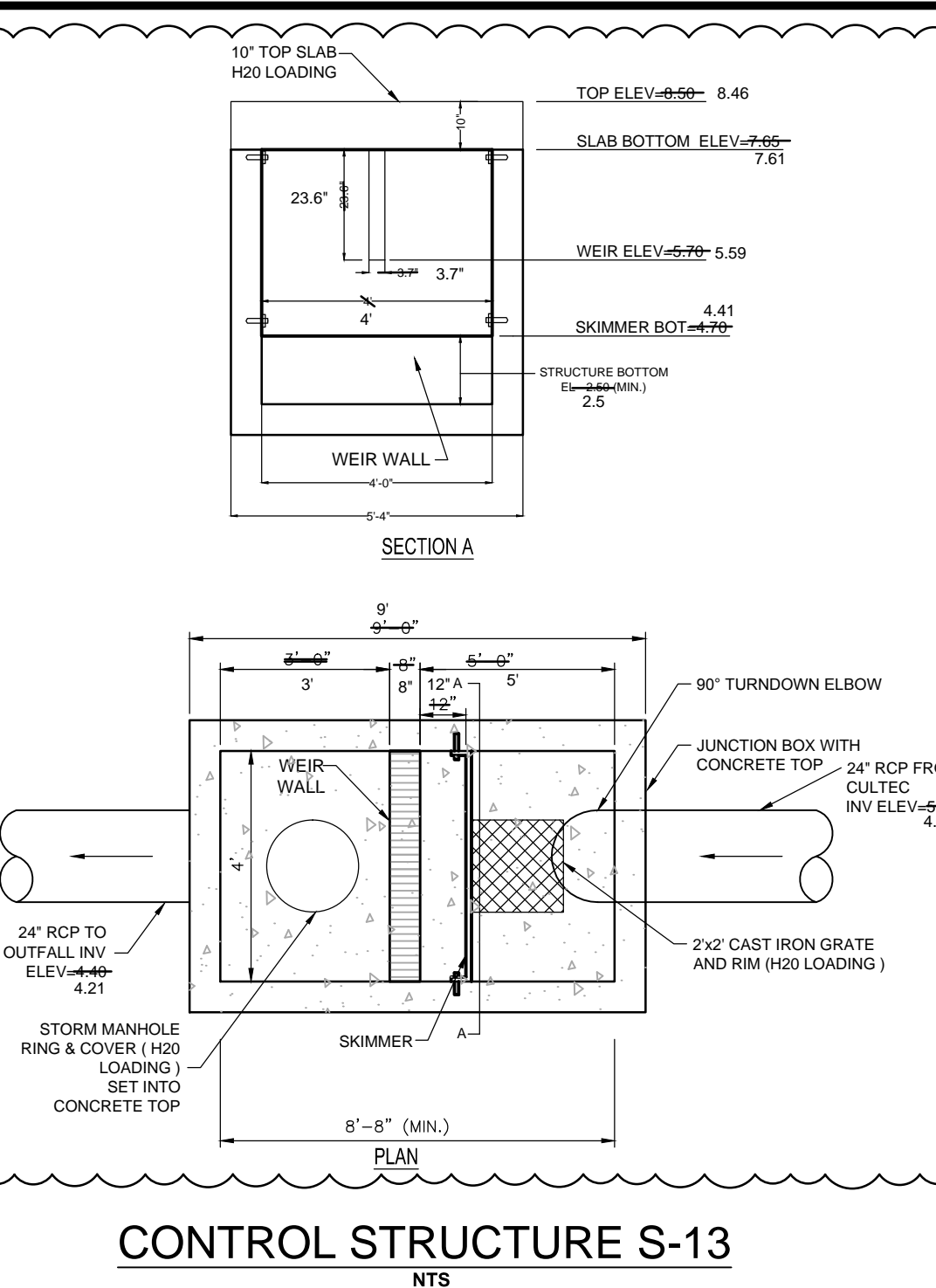
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LEGEND

[Symbol]	PROPOSED BUILDING	[Symbol]	PROPERTY LINE
[Symbol]	LOADING AREA	[Symbol]	SILT FENCE
[Symbol]	4" THK. CONCRETE	[Symbol]	PROPOSED STORM SEWER
[Symbol]	CONCRETE, SEE NOTE BELOW	[Symbol]	PROPOSED HIGH POINT
[Symbol]	PERVIOUS PAVERS	[Symbol]	PROPOSED LOW POINT
[Symbol]	ON-SITE HEAVY DUTY PAVEMENT	[Symbol]	PROPOSED GRADE
[Symbol]	ON-SITE LIGHT DUTY PAVEMENT	[Symbol]	TOP OF CURB / BOTTOM OF CURB
[Symbol]	DECORATIVE PAVEMENT (SEE LANDSCAPE PLANS)	[Symbol]	MATCH EXISTING GRADE
[Symbol]		[Symbol]	FLOW DIRECTION
[Symbol]		[Symbol]	PROPOSED INLET
[Symbol]		[Symbol]	PAVER CROSSWALKS

CONCRETE NOTES:
FOR ON-SITE, SEE PUBLIX PROTOTYPICAL DWGS FOR THICKNESS.
FOR OFF-SITE, 6" THK UNLESS OTHERWISE NOTED.



PIPE DATA

P1 37 LF 12" ADS @ 1.00% (MIN)	P20 54 LF 24" RCP @ 0.18%	P40 68 LF 12" ADS @ 0.50%	P50 10 LF 12" PVC @ 1.00% (MIN)
P2 50 LF 18" ADS @ 0.20%	P21 16 LF 24" ADS @ 0.00%	P41 67 LF 8" ADS @ 1.00%	P51 22 LF 12" PVC @ 1.00% (MIN)
P3 37 LF 12" ADS @ 1.00% (MIN)	P22 6 LF 12" ADS @ 0.00%	P42 96 LF 8" ADS @ 1.00%	P52 135 LF 24" RCP @ 0.11%
P4 37 LF 12" ADS @ 1.00% (MIN)	P23 6 LF 12" ADS @ 0.00%	P43 14 LF 6" PVC @ 0.82%	P53 95 LF 15" RCP @ 1.00%
P5 37 LF 12" ADS @ 1.00% (MIN)	P24 3 LF 10" ADS @ 0.00%	P44 14 LF 6" PVC @ 0.56%	P54 20 LF 15" RCP @ 0.20%
P6 37 LF 3" PVC CONDENSATE @ 1.00% (MIN)	P25 3 LF 10" ADS @ 0.20%	P45 84 LF 24" RCP @ 0.42%	P55 38 LF 12" ADS @ 1.00% (MIN)
P7 12 LF 6" ADS @ 1.00% (MIN)	P26 25 LF 15" RCP @ 0.20%	P46 48 LF 15" ADS @ 0.20%	P56 130 LF 12" ADS @ 1.00% (MIN)
P8 12 LF 6" ADS @ 1.00% (MIN)	P27 15 LF 15" RCP @ 0.17%	P47 48 LF 15" RCP @ 0.20%	P57 100 LF 6" PVC @ 2.00%
P9 18 LF 4" PVC @ 1.00% (MIN)	P28 16 LF 15" RCP @ 0.00%	P48 122 LF 15" RCP @ 1.17%	
P10 42 LF 24" ADS @ 0.18%	P29 9 LF 12" ADS @ 0.00%	P49 30 LF 15" RCP @ 0.57%	
P11 42 LF 15" RCP @ 0.20%	P30 9 LF 12" ADS @ 0.00%	P50 44 LF 30" RCP @ 0.14%	
P12 18 LF 4" PVC @ 1.00%	P31 9 LF 12" ADS @ 0.50%	P51 55 LF 12" RCP @ 0.14%	
P13 98 LF 24" RCP @ 0.33%	P32 143 LF 8" ADS @ 1.00%	P52 70 LF 30" RCP @ 0.36%	
P14 180 LF 15" RCP @ 0.20%	P33 109 LF 8" ADS @ 1.00%	P53 20 LF 6" ADS @ 1.76%	
P15 54 LF 24" RCP @ 0.20%	P34 122 LF 15" RCP @ 0.11%	P54 267 LF 24" RCP @ 0.19%	
P16 110 LF 18" RCP @ 0.40%	P35 128 LF 18" RCP @ 0.22%		
P17 218 LF 48" RCP @ 0.21%	P36 102 LF 24" RCP @ 3.55%		
P17A 51 LF 48" RCP @ 0.08%	P37 44 LF 18" RCP @ 3.20%		
P18 51 LF 24" RCP @ 5.34%	P38 100 LF 18" RCP @ 0.77%		
P19 84 LF 24" RCP @ 1.50%	P39 83 LF 15" RCP @ 1.69%		

STRUCTURE DATA

S1 TYPE 'C' INLET GRATE ELEV=6.99 INV ELEV=6.99 (S) 3.50 INV ELEV=6.99 (N) 3.00	S2 TYPE 'C' INLET GRATE ELEV=6.55 INV ELEV=6.55 (S) 3.30 INV ELEV=6.55 (N) 2.80	S3 TYPE 'C' INLET GRATE ELEV=6.48 INV ELEV=6.48 (S) 2.46	S4 TYPE 'C' INLET GRATE ELEV=7.63 INV ELEV=7.63	S5 MANHOLE TOP W/ 'J' BTM. RIM ELEV=7.63 (NW) -0.37 MATCH EXIST.	S6 TYPE 'C' INLET TOP W/ 'J' BTM. RIM ELEV=10.16 INV ELEV=10.16 (W) 1.15 INV ELEV=10.16 (SW) 0.03	S7 TYPE 'C' INLET GRATE ELEV=8.16 INV ELEV=8.16 (S) 5.46 INV ELEV=8.16 (NE) 5.03	S8 TYPE 'C' INLET TOP W/ 'J' BTM. GRATE ELEV=9.13 INV ELEV=9.13 (NW) 1.60 INV ELEV=9.13 (NE,SE&S)	S9 TYPE 'C' INLET GRATE ELEV=6.37 INV ELEV=6.37 (NW; MATCH EXIST.) INV ELEV=6.37 (NE) -0.19 (SW)	S10 RIM ELEV=10.20 INV ELEV=10.20 (NE; MATCH EXIST.) INV ELEV=10.20 (SW)	S11 MANHOLE W/ TYPE 'J' BTM. RIM ELEV=7.28 INV ELEV=7.28 (NW) -1.60 INV ELEV=7.28 (NE) 2.50	S12 TYPE 'C' INLET GRATE ELEV=6.42 INV ELEV=6.42 (N) 4.46 INV ELEV=6.42 (SW) 2.13	S13 30" ADS DRAIN BASIN W/ SOLID H2O TOP & CONC. COLLAR TOP ELEV=9.99 INV ELEV=9.99 (N) 5.39 INV ELEV=9.99 (SW) 5.29	S14 TYPE 'C' INLET GRATE ELEV=7.83 INV ELEV=7.83 (NW) 4.46 INV ELEV=7.83 (N) 5.11 INV ELEV=7.83 (NE) 4.46	S15 30" ADS DRAIN BASIN W/ SOLID H2O TOP & CONC. COLLAR TOP ELEV=9.99 INV ELEV=9.99 (N) 5.39 INV ELEV=9.99 (SW) 5.29	S16 30" ADS DRAIN BASIN W/ SOLID H2O TOP & CONC. COLLAR TOP ELEV=9.99 INV ELEV=9.99 (N) 5.39 INV ELEV=9.99 (SW) 5.29	S17 30" ADS DRAIN BASIN W/ SOLID H2O TOP & CONC. COLLAR TOP ELEV=9.99 INV ELEV=9.99 (N) 5.39 INV ELEV=9.99 (SW) 5.29	S18 30" ADS DRAIN BASIN W/ SOLID H2O TOP & CONC. COLLAR TOP ELEV=9.99 INV ELEV=9.99 (N) 5.39 INV ELEV=9.99 (SW) 5.29	S19 30" ADS DRAIN BASIN W/ SOLID H2O TOP & CONC. COLLAR TOP ELEV=9.99 INV ELEV=9.99 (N) 5.39 INV ELEV=9.99 (SW) 5.29	S20 TYPE 'C' INLET GRATE ELEV=6.40 INV ELEV=6.40 (SW) 0.67	S21 TYPE 'C' INLET GRATE ELEV=6.53 INV ELEV=6.53 (SW) 0.88	S22 TYPE 'C' INLET GRATE ELEV=6.53 INV ELEV=6.53 (S) 2.91 INV ELEV=6.53 (SW) 4.32 INV ELEV=6.53 (NE) 1.13	S23 TYPE 'C' INLET GRATE ELEV=6.53 INV ELEV=6.53 (NW) 1.20 INV ELEV=6.53 (S) 2.91 INV ELEV=6.53 (SW) 4.32 INV ELEV=6.53 (NE) 1.13	S24 24" ADS DRAIN BASIN W/ SOLID H2O TOP TOP ELEV=10.26 INV ELEV=10.26 (N) 4.40 INV ELEV=10.26 (SW) 4.40	S25 24" ADS DRAIN BASIN W/ SOLID H2O TOP TOP ELEV=11.66 INV ELEV=11.66 (N) 4.40 INV ELEV=11.66 (SW) 4.40	S26 MANHOLE W/ 'J' BTM RIM ELEV=6.50 INV ELEV=6.50 (N) 1.78 INV ELEV=6.50 (S) 0.50 INV ELEV=6.50 (W) 3.17 INV ELEV=6.50 (NE) 0.70-10	S27 NOT USED
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RECORD DRAWING/AS-BUILT = AND

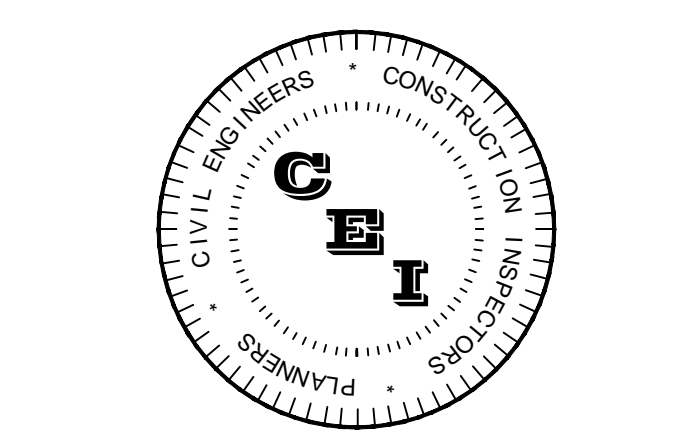
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MATTHEW D. CAMPO 53988 February 21, 2013
NAME SEAL NO. DATE

SIGNATURE: _____ DATE: _____

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PROJECT TITLE
SHOPPES OF BAY ISLES

TOWN OF LONGBOAT KEY

CLIENT
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C/O RMC DEVELOPMENT SERVICES, LLC
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TAMPA, FL 33614

REVISIONS

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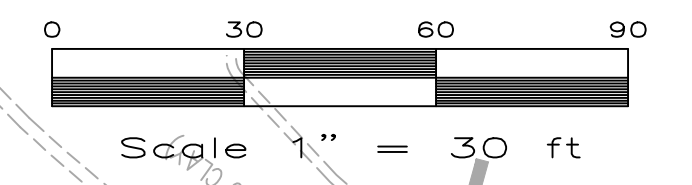
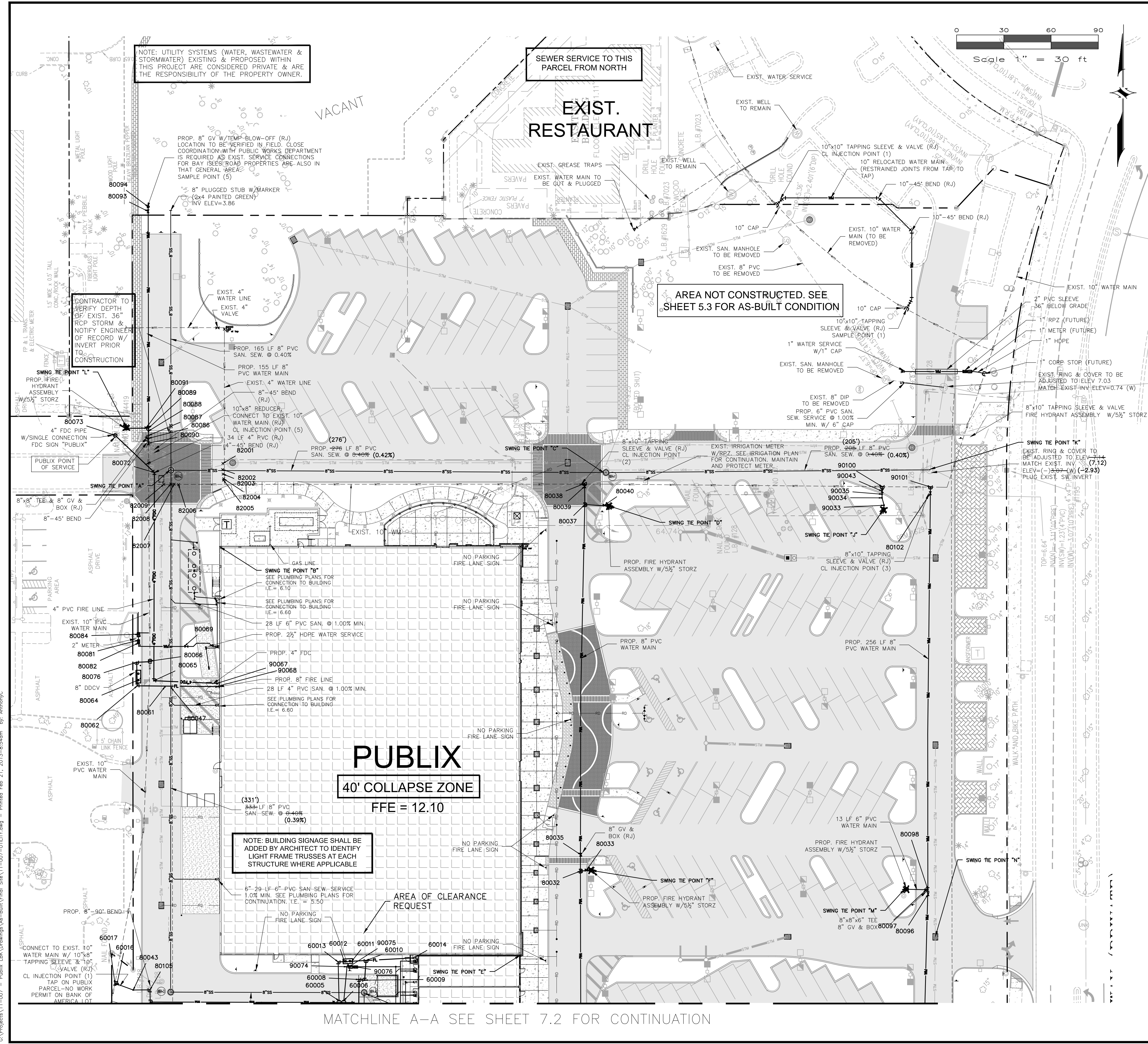
ISSUE DATE: 5/2011
REVIEWED BY: MDC
DRAWN BY: JJB
DESIGNED BY: BLM

PROJECT NUMBER
11-007

SHEET TITLE

PAVING, GRADING & DRAINAGE PLAN

SHEET NUMBER
6.2



LEGEND

[Symbol]	PROPOSED BUILDING	[Symbol]	PROPERTY LINE
[Symbol]	LOADING AREA	[Symbol]	SILT FENCE
[Symbol]	4" THK. CONCRETE	[Symbol]	SANITARY SEWER
[Symbol]	CONCRETE, SEE NOTE BELOW	[Symbol]	FIRE LINE
[Symbol]	ON-SITE HEAVY DUTY PAVEMENT	[Symbol]	WATER MAIN
[Symbol]	ON-SITE LIGHT DUTY PAVEMENT	[Symbol]	SANITARY SEWER CLEANOUT (REQ. AT ALL SERVICES)
[Symbol]	PERVIOUS PAVERS	[Symbol]	GATE VALVE
[Symbol]	PAVER CROSSWALKS	[Symbol]	TEE
[Symbol]	DECORATIVE PAVER SIDEWALK (SEE LANDSCAPE PLAN)	[Symbol]	45° BEND
[Symbol]		[Symbol]	90° BEND
		[Symbol]	FIRE HYDRANT ASSEMBLY W/ 5/8" STORZ
		[Symbol]	UTILITY CROSSING NUMBER
		[Symbol]	(RJ) RESTRAINED JOINTS
		[Symbol]	C.O. CLEANOUT
		[Symbol]	LIGHT

POINT#	SWING TIE POINT "A" MANHOLE #2	SWING TIE POINT "B" BUILDING CORNER	ELEVATION	DESCRIPTION
80047	138.0'	94.7'	4.1	8"-45°BEND
80061	137.4'	95.7'	1.1	8"-90°BEND
80062	138.5'	102.7'	1.2	8"-90°BEND
80064	134.6'	135.5'	10.7	8"DDCV
80065	134.1'	134.7'	1.3	4"-90°BEND
80066	121.9'	85.0'	4.5	8" GATE VALVE & 10"x8" TAP
80069	111.8'	66.9'	6.0	2.5" GATE VALVE
80076	123.8'	90.6'	3.3	8"-90°BEND
80081	109.8'	78.6'	9.5	2" BACKFLOW
80082	111.6'	80.2'	9.6	2" BACKFLOW
80084	106.2'	75.8'	7.8	2" METER
82001	33.4'	52.6'	0.7	10"-45°BEND
82002	32.8'	48.8'	2.4	10"-45°BEND
82003	33.2'	45.9'	2.1	10"-45°BEND
82004	33.9'	43.0'	0.1	10"-45°BEND
82005	33.9'	42.1'	3.0	10" GATE VALVE
82006	10.4'	47.1'	0.6	10"-45°BEND
82007	9.0'	49.0'	2.5	10"-45°BEND
82008	8.7'	50.3'	2.7	10"-45°BEND
82009	10.0'	52.9'	0.9	10"-45°BEND
90067	138.4'	87.1'	8.1	4" FDC
90068	140.3'	89.1'	8.1	6" FIRE

POINT#	SWING TIE POINT "C" MANHOLE #2	SWING TIE POINT "D" FIRE HYDRANT	ELEVATION	DESCRIPTION
80037	24.4'	15.2'	2.6	8"x6" TEE
80038	15.2'	221.0'	2.9	8"10" TAP
80039	16.0'	19.7'	3.7	8" GATE VALVE
80040	20.7'	2.7'	9.1	6" GATE VALVE

POINT#	SWING TIE POINT "E" MANHOLE #2	SWING TIE POINT "F" FIRE HYDRANT	ELEVATION	DESCRIPTION
80032	65.5'	6.6'	8.2	8"x6" TEE
80033	68.3'	2.7'	9.7	6" GATE VALVE
80035	74.3'	11.8'	9.9	8" GATE VALVE

POINT#	SWING TIE POINT "J" FIRE HYDRANT	SWING TIE POINT "K" MANHOLE	ELEVATION	DESCRIPTION
80102	31.4'	14.6'	4.3	8" GATE VALVE
90033	2.6'	36.8'	5.6	6"-45°BEND
90034	7.4'	35.2'	2.2	6"-45°BEND
90035	9.7'	34.0'	2.5	8"x6" REDUCER
90043	11.6'	33.3'	5.5	8" GATE VALVE
90100	14.4'	32.1'	2.5	8" TEE
90101	33.0'	10.9'	2.7	8"x10" TEE

POINT#	SWING TIE POINT "A" MANHOLE #2	SWING TIE POINT "L" FIRE HYDRANT	ELEVATION	DESCRIPTION
80072	10.7'	33.5'	3.0	4"-45°BEND
80073	41.9'	8.4'	9.0	FDC
80086	26.3'	15.5'	2.2	10"x8" REDUCER
80087	28.8'	14.8'	2.3	8"-45°BEND
80088	28.7'	14.1'	4.0	8"-45°BEND
80089	30.4'	14.0'	4.1	8"x6" TEE
80090	22.4'	17.1'	3.7	10 GATE VALVE
80091	31.3'	12.7'	5.1	6" GATE VALVE
80093	165.1'	138.1'	5.2	8" GATE VALVE
80094	168.0'	141.3'	3.6	BLOW OFF

POINT#	SWING TIE POINT "M" FIRE HYDRANT	SWING TIE POINT "N" CENTER OF INLET	ELEVATION	DESCRIPTION
80096	14.0'	27.4'	5.9	8" GATE VALVE
80097	12.4'	30.4'	5.6	6" GATE VALVE
80098	13.5'	30.4'	4.5	8"x6" TEE

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NAME: MATTHEW D. CAMPO FL PE No.: 53988
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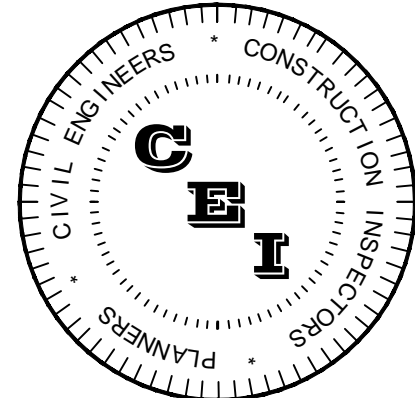
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Matthew D. Campo 53988 05/02/2012
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SHEET TITLE
UTILITY PLAN

SHEET NUMBER
7.1

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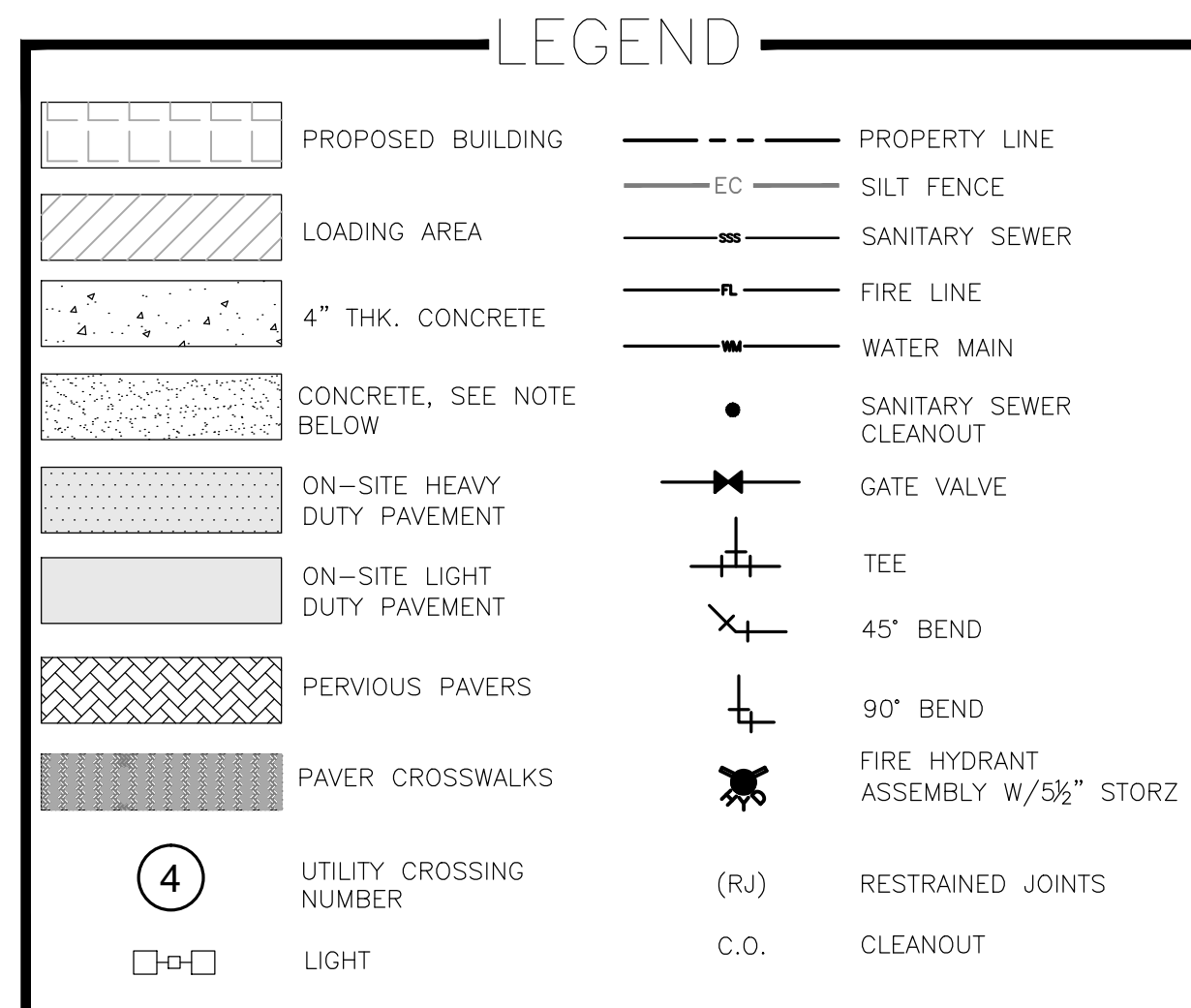
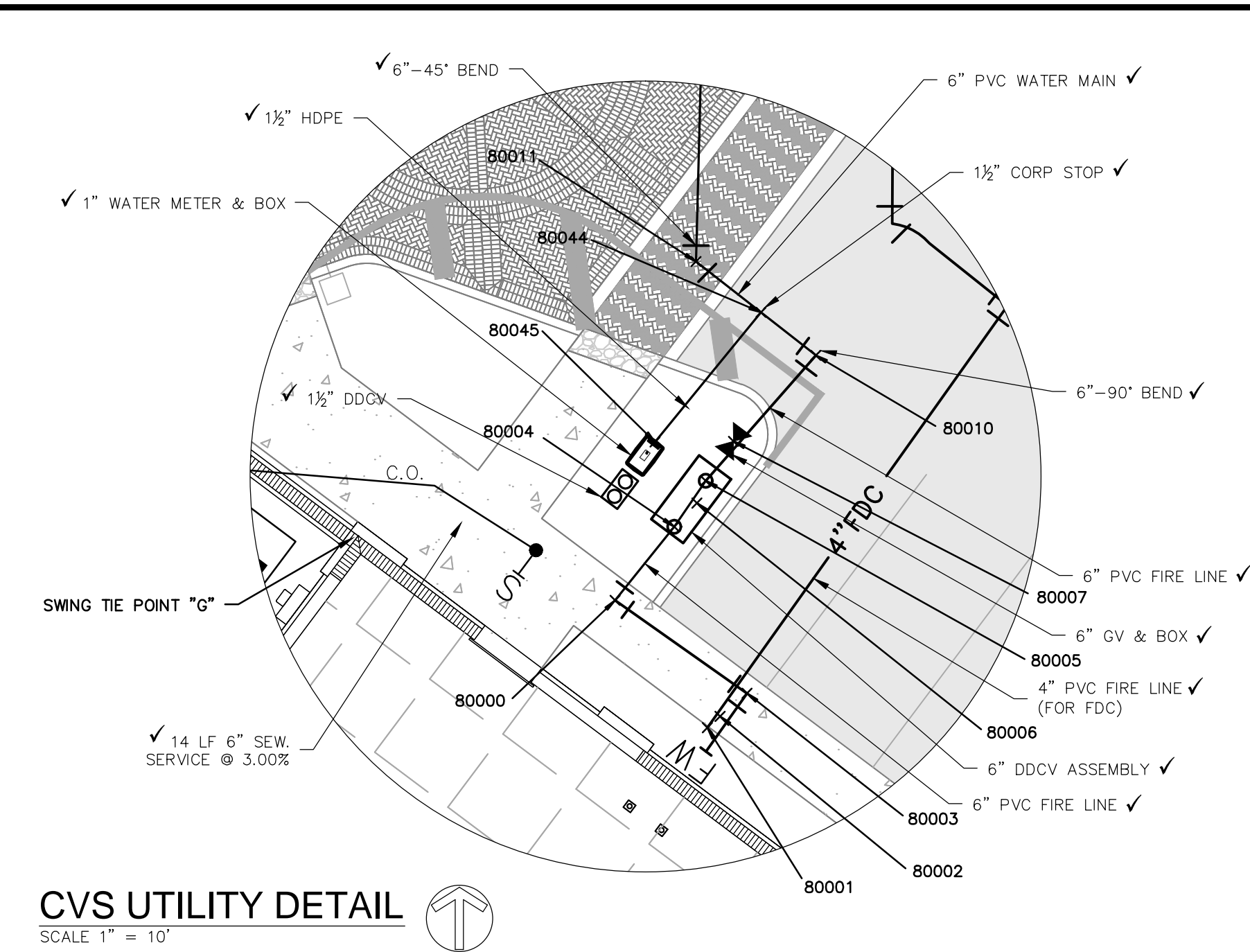
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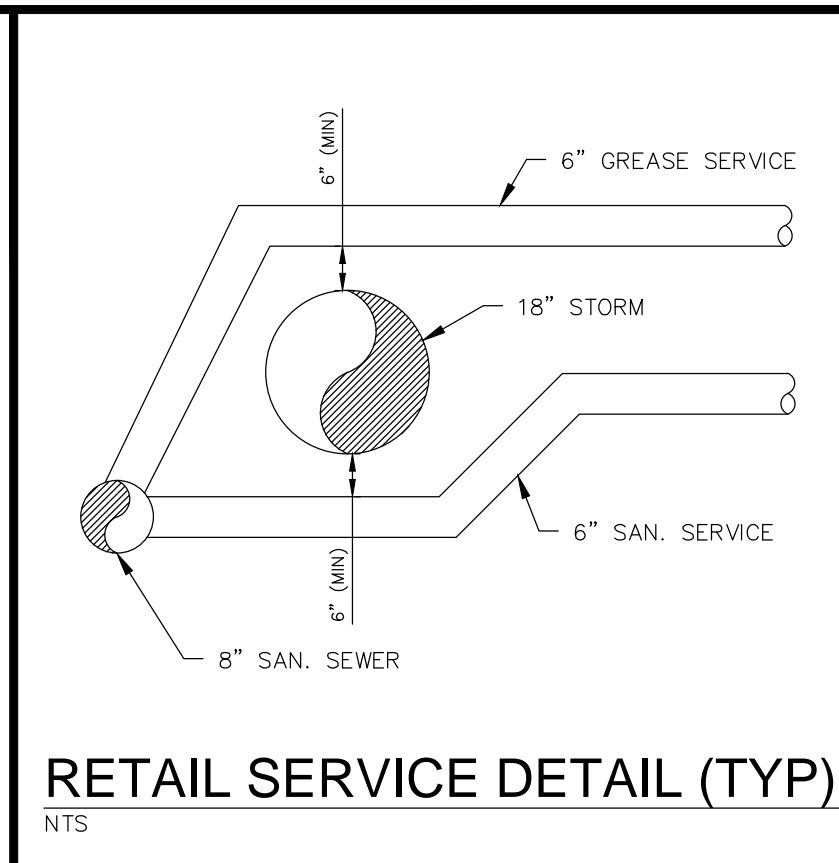
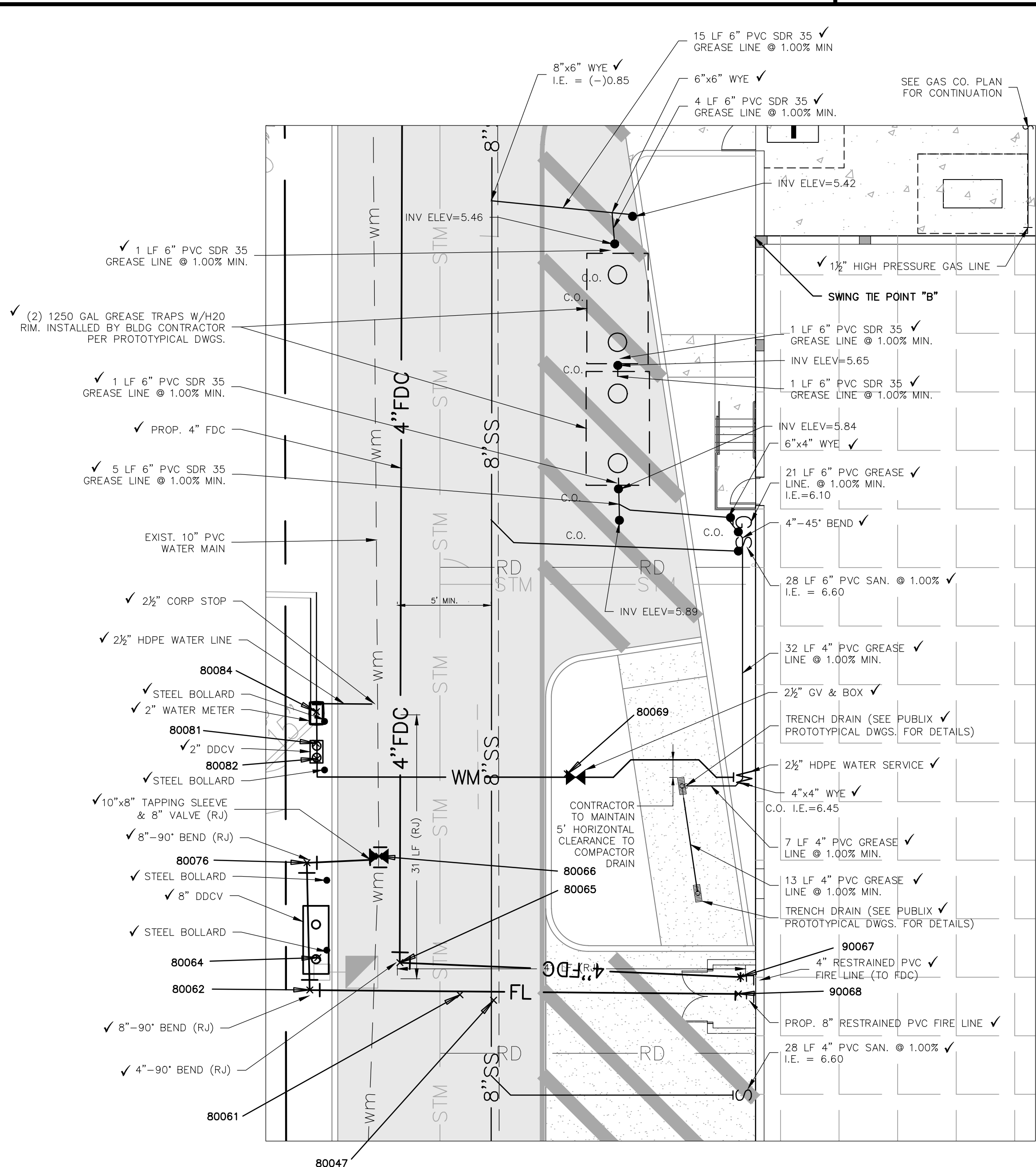
UTILITY PLAN

SHEET NUMBER

7.3



- NOTES:
- CONTRACTOR TO SUBMIT BACKFLOW, FITTING & PIPE SHOP DRAWINGS FOR ENGINEER OF RECORD AND TOWN OF LONGBOAT KEY FOR APPROVAL.
 - ALL WATER PIPING, FITTINGS & EQUIPMENT TO BE IN ACCORDANCE WITH AWWA AND TOWN OF LONGBOAT KEY STANDARDS.
 - SEE SHEET 9.1 FOR STANDARD DETAILS.



RECORD DRAWING/AS-BUILT AND AS-BUILT INFORMATION PROVIDED BY POINT BREAK SURVEYING, LLC

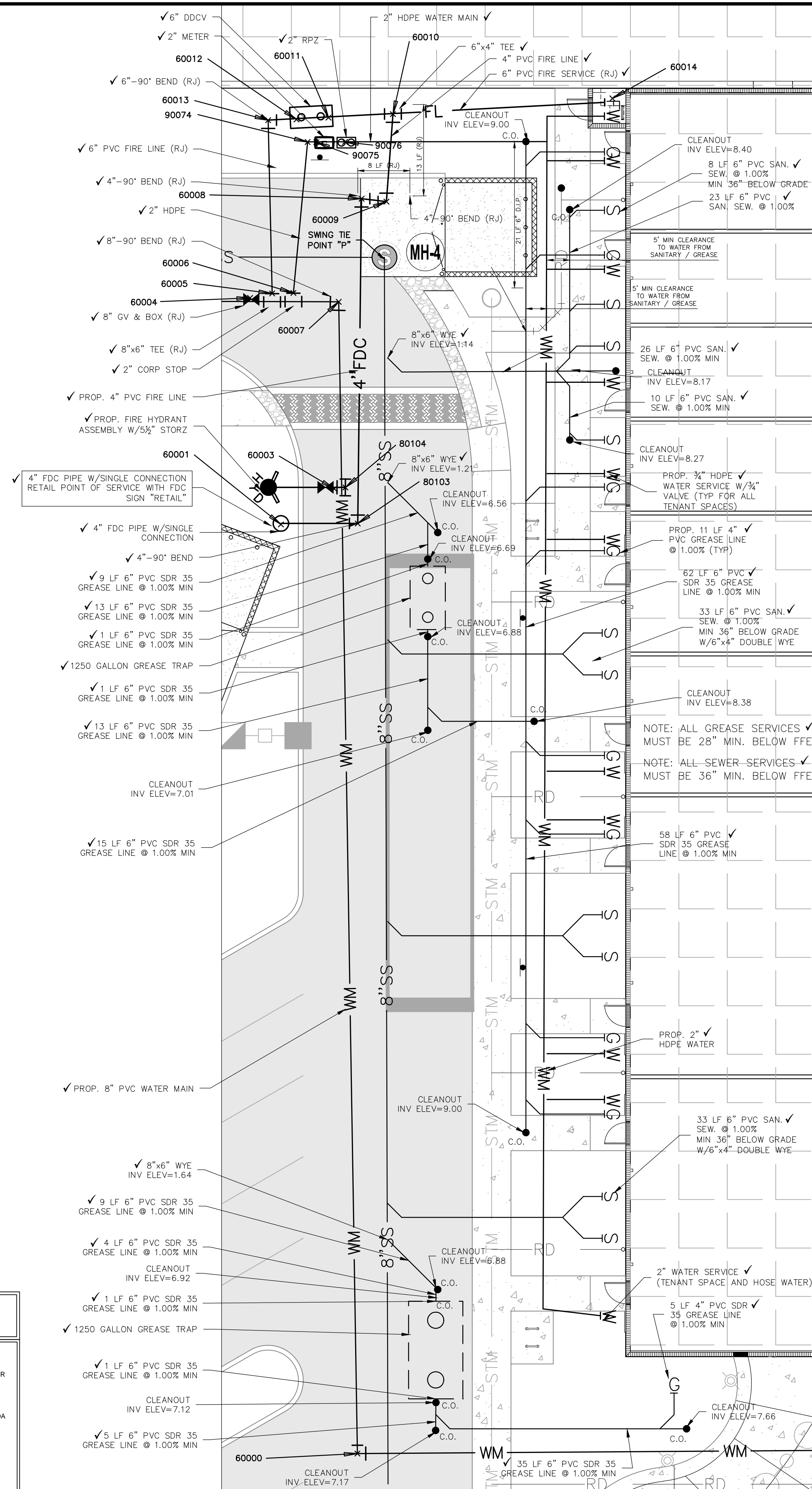
RECORDS-AS-BUILT CERTIFICATION:

IN ACCORDANCE WITH CHAPTER 61G15-29, FLORIDA ADMINISTRATIVE CODE (F.A.C.), I HEREBY CERTIFY THAT AT THE TIME OF FINAL INSPECTION, THE WATER SYSTEM DEPICTED ON THESE RECORD DRAWINGS ARE A DEPICTION OF THE SUBSTANTIALLY COMPLETED PROJECT AND ARE IN ACCORDANCE WITH THE PERMITTED CONSTRUCTION PLANS. ANY MINOR DEVIATIONS OBSERVED FROM THE PERMITTED PLANS AND SPECIFICATIONS WILL NOT PREVENT THE SYSTEM FROM FUNCTIONING IN COMPLIANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE AND/OR APPLICABLE STATE OF FLORIDA REGULATIONS.

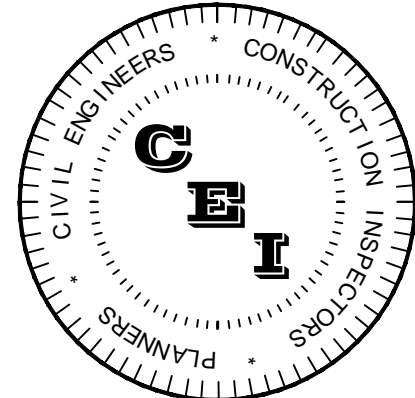
NAME: MATTHEW D. CAMPO FL PE No.: 53988

SIGNATURE: DATE: February 21, 2013

Notes:
* This certification is completed by the licensed engineer listed above for construction certification only and is not for design or permitting.
** Invert and Grade Elevation data depicted has been provided by the Contractor and/or the Project Surveyor.



G:\Projects\11-007 - Publix Bay Islands\As-Built\Final_SNA\11-007-UTILITY.dwg - Printed Feb 21, 2013 8:55am by: AnthonyC



CAMPO ENGINEERING, INC.

FBPR CERTIFICATE OF AUTHORIZATION NO.: 26726

1725 EAST 5TH AVENUE
TAMPA, FL 33605
PHONE: (813) 215-7372
FAX: (813) 902-8782

PROJECT TITLE

SHOPPES OF BAY ISLES

TOWN OF LONGBOAT KEY

CLIENT
PUBLIX SUPER MARKETS, INC.
C/O RMC DEVELOPMENT SERVICES, LLC
8902 NORTH DALE MABRY HWY SUITE 200
TAMPA, FL 33614

REVISIONS

NO.	DESCRIPTION	DATE

ISSUE DATE: 5/2011

REVIEWED BY: MDC

DRAWN BY: JUB

DESIGNED BY: BLM

PROJECT NUMBER

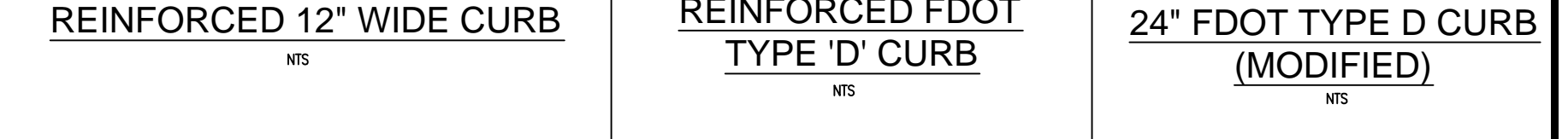
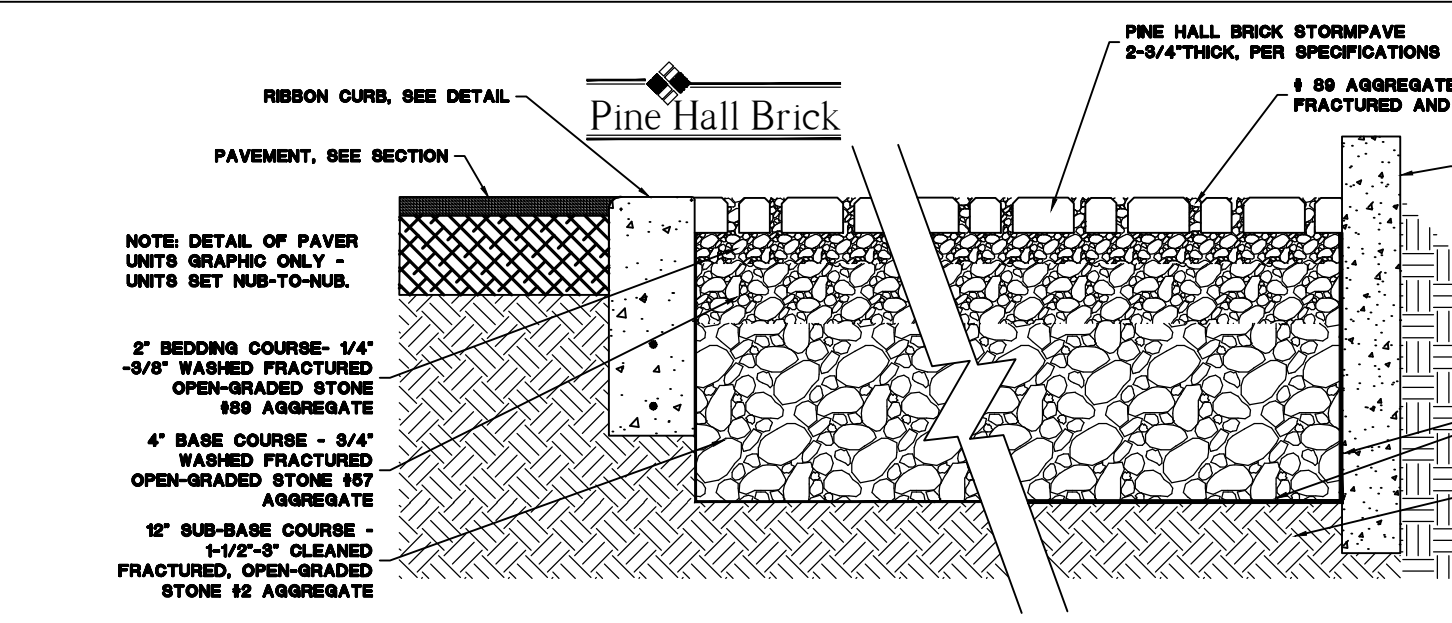
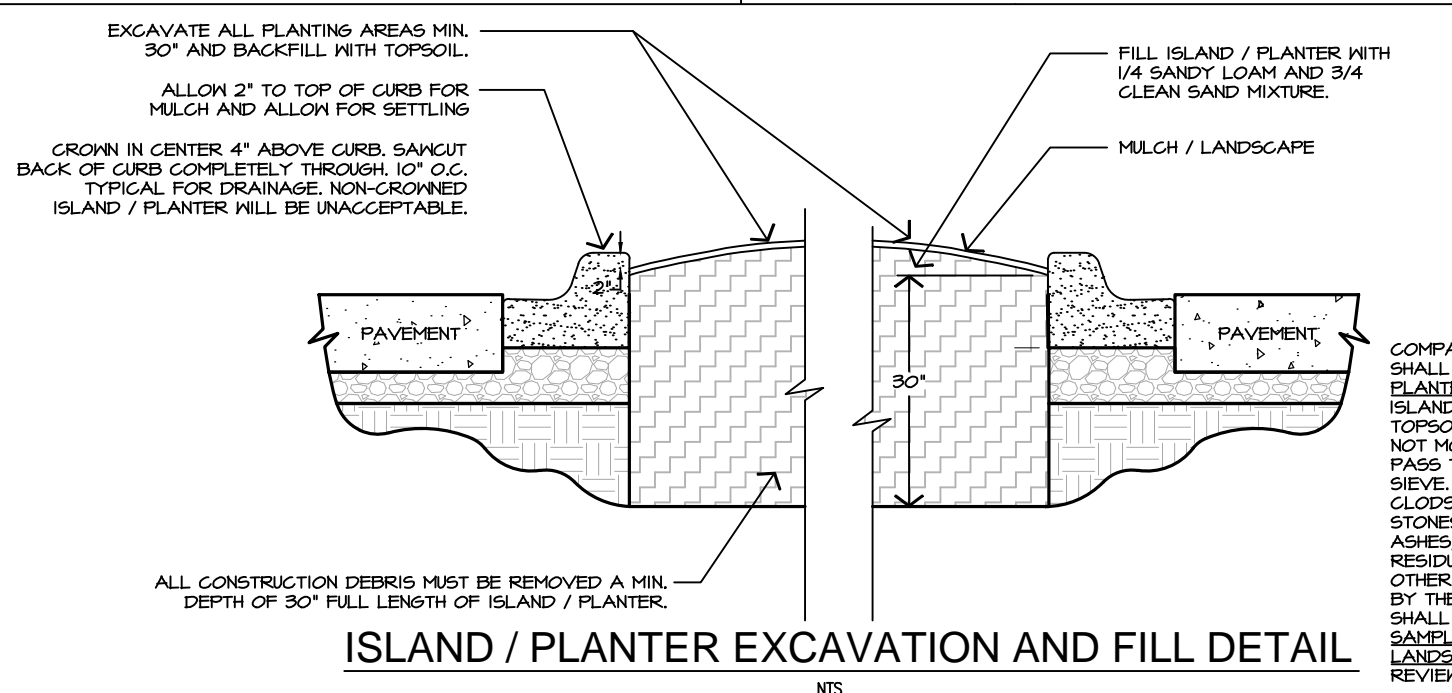
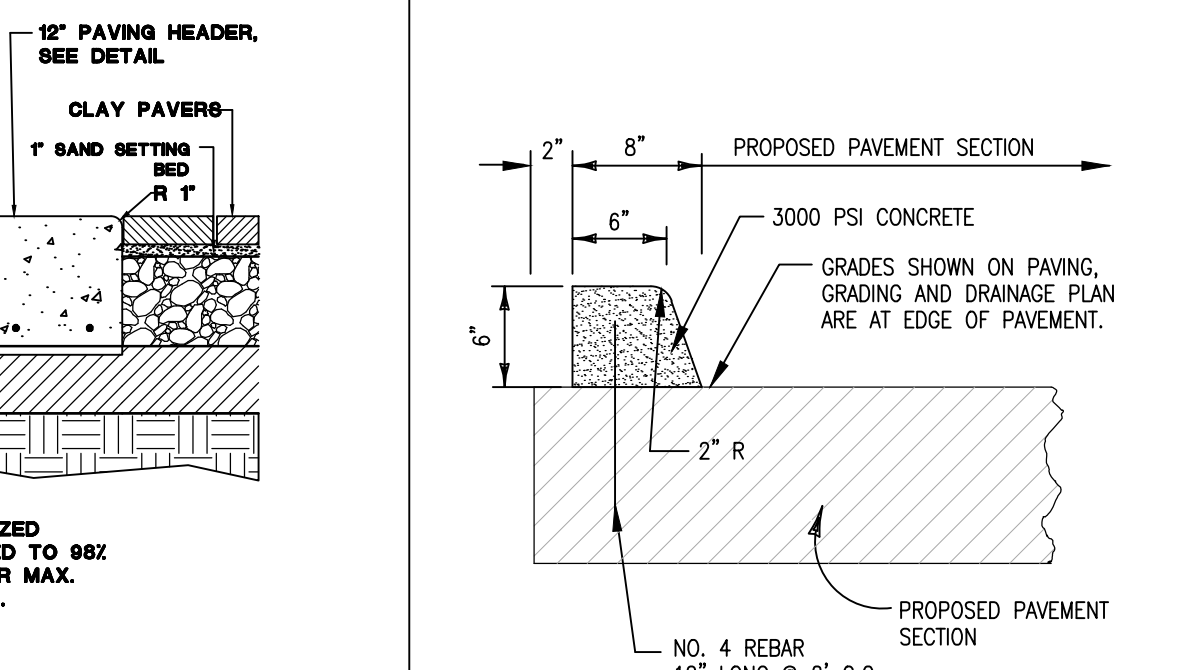
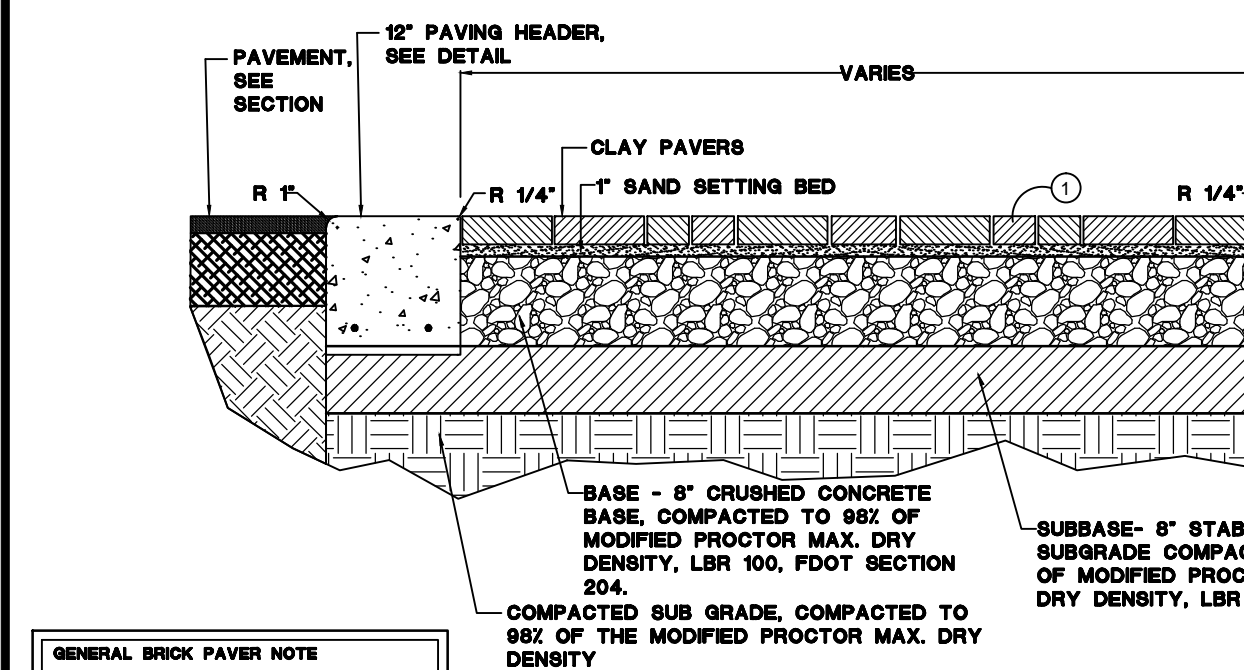
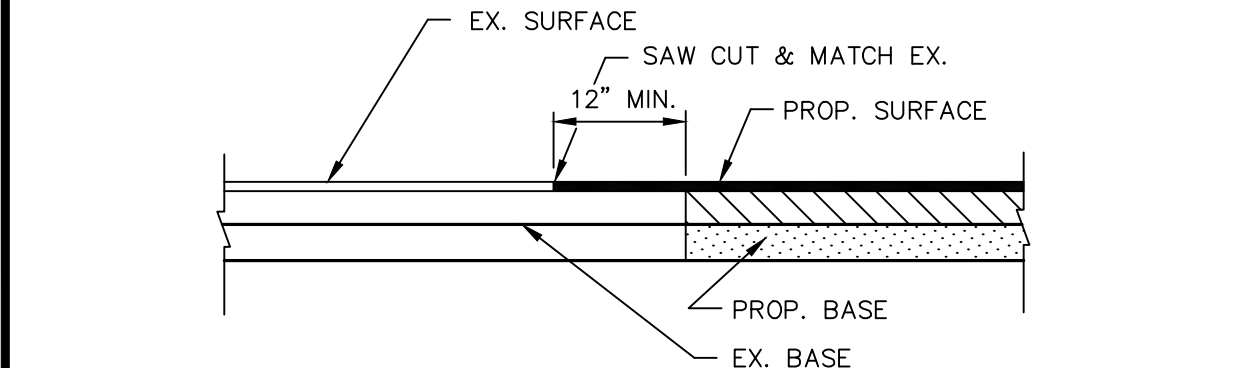
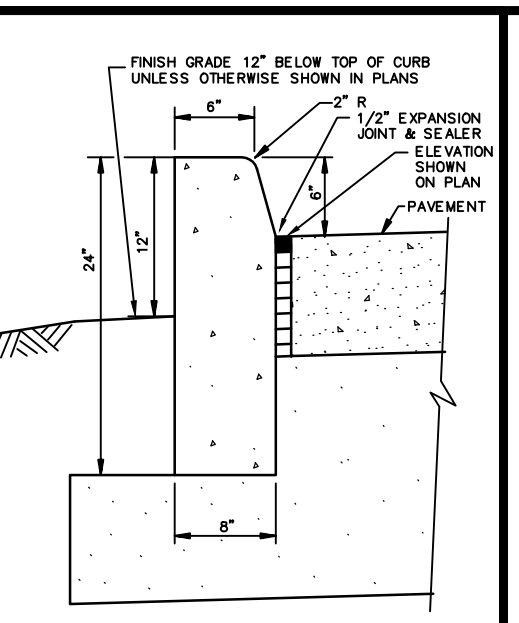
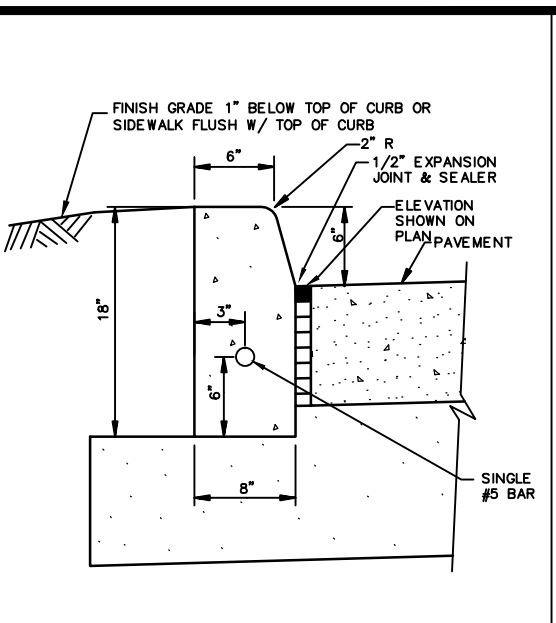
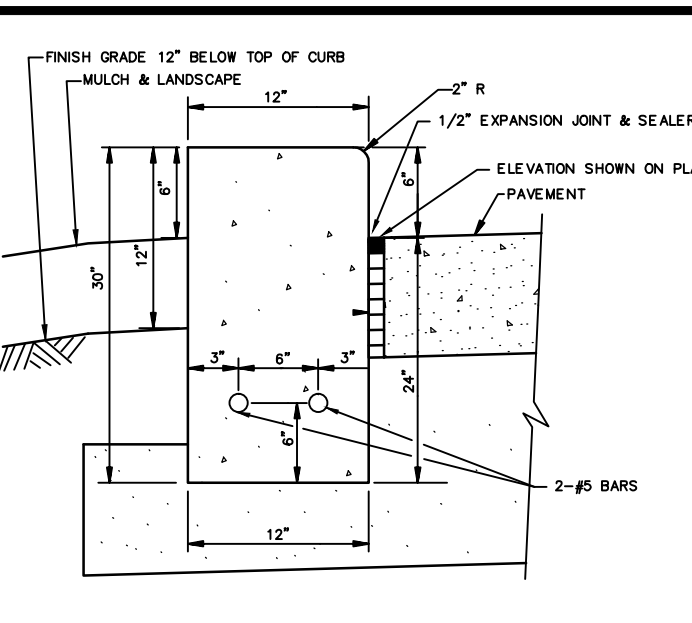
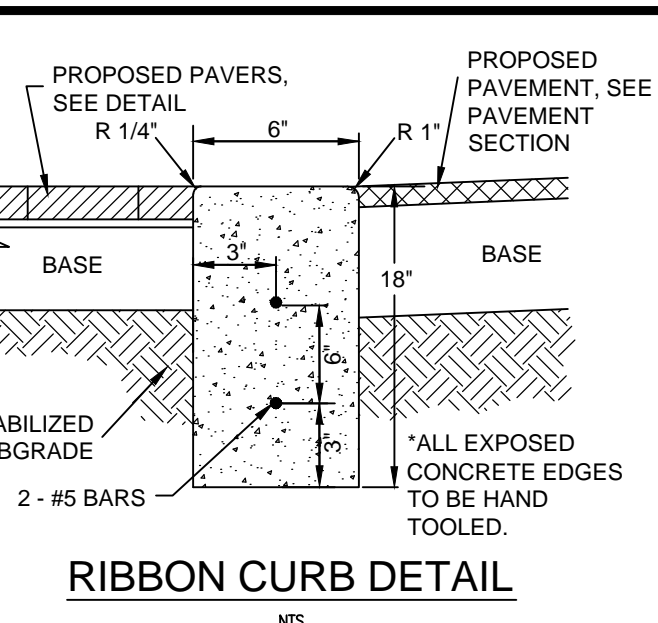
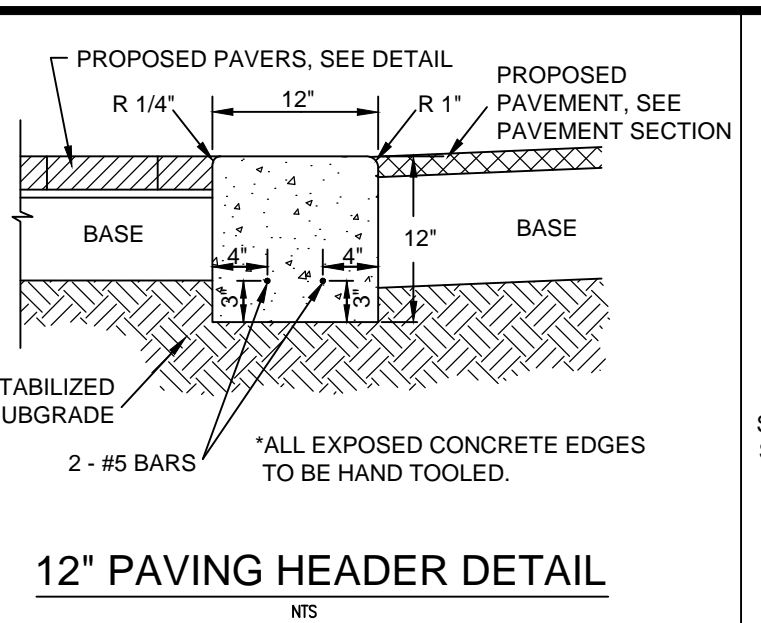
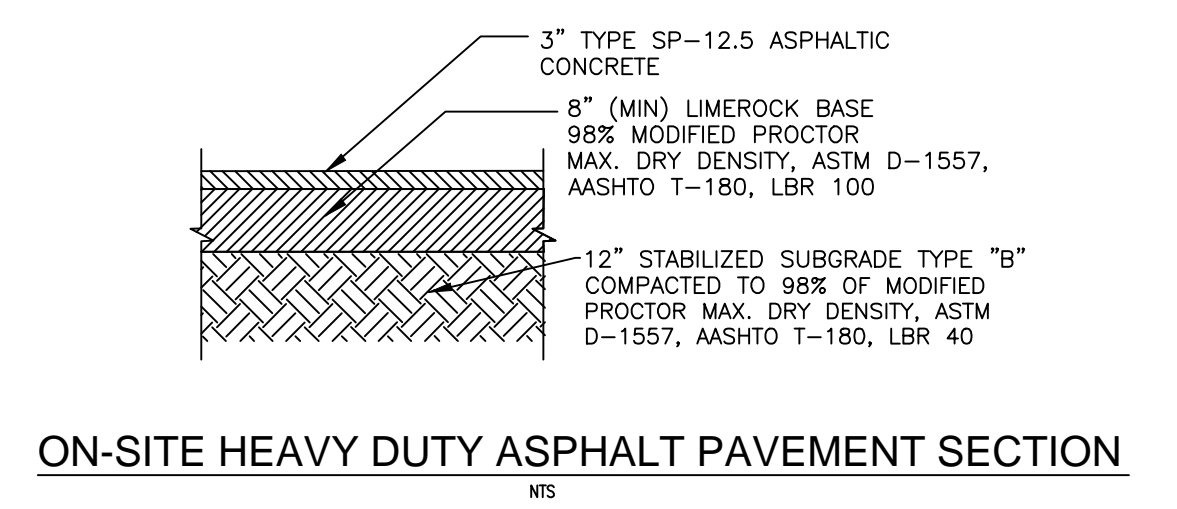
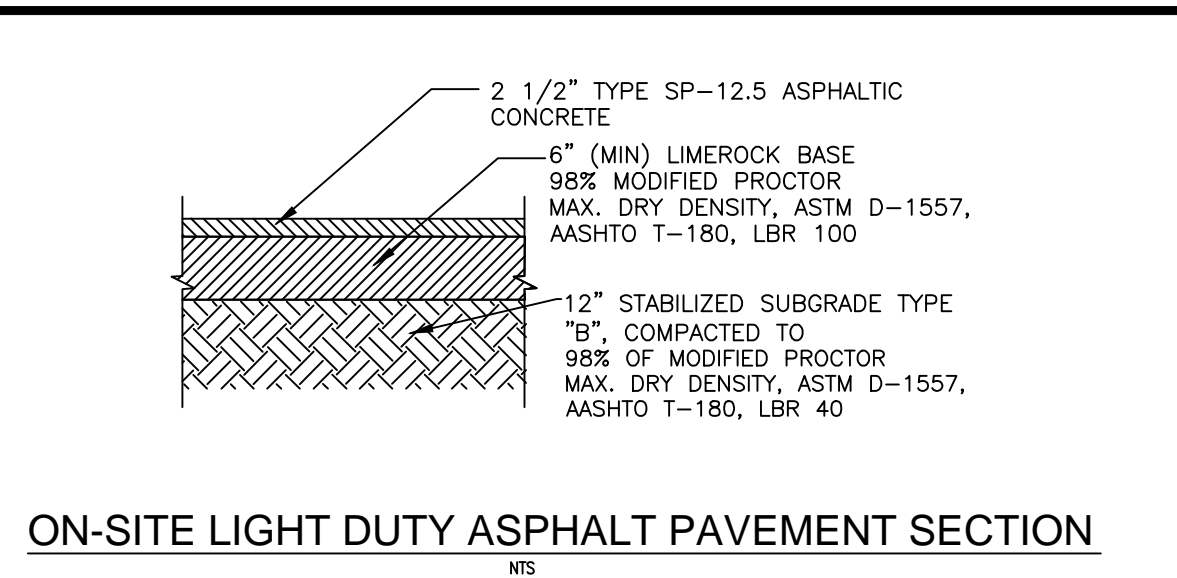
11-007

Matthew D. Campo 53988 05/02/2012
NAME SEAL NO. DATE

PAVING, GRADING & DRAINAGE DETAILS

SHEET NUMBER

8.1



GENERAL BRICK PAVEMENT NOTE
NOTE: SET PAVERS 5/8" ABOVE FINISH GRADE. A TECHNICAL CERTIFIED APPLICATOR IS TO APPLY TECHNICAL FIN POLYURETHANE BOND ADHESIVE TO MANUFACTURER'S SPECIFICATIONS. TECHNICAL CERTIFIED APPLICATOR IS TO CONDUCT A TEST AREA. PRESSURE CLEAN ALL PAVERS UPON COMPLETION OF PROJECT PRIOR TO ACCEPTANCE.
SUBMIT SAMPLES TO LANDSCAPE ARCHITECT PRIOR TO ORDERING.

PAVING LEGEND

KEY	DESCRIPTION
(Symbol)	EXISTING/REPAIRED PAVEMENT AREA - SEE DETAIL
(Symbol)	HERRINGBONE PATTERN, 2 ROWS OF 3-3/4" x 4" PINE HALL ENGLISH EDGE OR CLAY BRICK, THICKNESS 2-1/4" x 4" PINE HALL ENGLISH EDGE BUFF CLAY BRICK, ON 1" SAND SETTING BED AND 4" CRUSHED CONCRETE BASE.

CULTEC RECHARGER 150XLHD SPECIFICATIONS

GENERAL
CULTEC RECHARGER® 150XLHD CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION OR CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFF.

CHAMBER PARAMETERS

- THE CHAMBERS WILL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
- THE CHAMBER WILL BE VACUUM THERMOFORMED OF BLACK HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE).
- THE CHAMBER WILL BE ARCH IN SHAPE.
- THE CHAMBER WILL BE OPEN-BOTTOMED.
- THE CHAMBER WILL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS OR SEPARATE END WALLS.
- THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC RECHARGER® 150XLHD SHALL BE 18.5 INCHES (470 MM) TALL, 33 INCHES (838 MM) WIDE AND 11 FEET (3.35 M) LONG. THE INSTALLED LENGTH OF A JOINED RECHARGER® 150XLHD SHALL BE 10.25 FEET (3.12 M).
- MAXIMUM INLET OPENING ON THE CHAMBER ENDWALL IS 12 INCHES (300 MM).
- THE CHAMBER WILL HAVE TWO SIDE PORTALS TO ACCEPT CULTEC HVLV™ FC-24 FEED CONNECTORS TO CREATE AN INTERNAL MANIFOLD. THE NOMINAL DIMENSIONS OF EACH SIDE PORTAL WILL BE 10.5 INCHES (267 MM) HIGH BY 12 INCHES (304 MM) WIDE. MAXIMUM ALLOWABLE PIPE SIZE IN THE SIDE PORTAL IS 10 INCHES (254 MM) NOMINAL.
- THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV™ FC-24 FEED CONNECTOR SHALL BE 12 INCHES (305 MM) TALL, 16 INCHES (406 MM) WIDE AND 24.2 INCHES (614 MM) LONG.
- THE NOMINAL STORAGE VOLUME OF THE RECHARGER® 150XLHD CHAMBER WILL BE 2.650 FT³ / FT (0.246 M³ / M) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF A JOINED RECHARGER® 150XLHD SHALL BE 27.16 FT³ / UNIT (0.77 M³ / UNIT) - WITHOUT STONE.
- THE NOMINAL STORAGE VOLUME OF THE HVLV™ FC-24 FEED CONNECTOR WILL BE 0.913 FT³ / FT (0.085 M³ / M) - WITHOUT STONE.
- THE RECHARGER® 150XLHD CHAMBER WILL HAVE THIRTY DISCHARGE HOLES BORED INTO THE SIDEWALLS OF THE UNIT'S CORE TO PROMOTE LATERAL CONVEYANCE OF WATER.
- THE RECHARGER® 150HD CHAMBER SHALL HAVE 20 CORRUGATIONS.
- THE ENDWALL OF THE CHAMBER, WHEN PRESENT, WILL BE AN INTEGRAL PART OF THE CONTINUOUSLY FORMED UNIT. SEPARATE END PLATES CANNOT BE USED WITH THIS UNIT.
- THE RECHARGER® 150XLHD STAND ALONE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO FULLY FORMED INTEGRAL ENDWALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS.
- THE RECHARGER® 150XLHD STARTER UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL ENDWALL AND ONE PARTIALLY FORMED INTEGRAL ENDWALL WITH A LOWER TRANSFER OPENING OF 10 INCHES (254 MM) HIGH X 20.5 INCHES (521 MM) WIDE.
- THE RECHARGER® 150XLHD INTERMEDIATE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY OPEN ENDWALL AND ONE PARTIALLY FORMED INTEGRAL ENDWALL WITH A LOWER TRANSFER OPENING OF 10 INCHES (254 MM) HIGH X 20.5 INCHES (521 MM) WIDE.
- THE RECHARGER® 150XLHD END UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL ENDWALL AND ONE FULLY OPEN END WALL AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS.
- THE HVLV™ FC-24 FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT WILL FIT INTO THE SIDE PORTALS OF THE RECHARGER® 150XLHD AND ACT AS CROSS FEED CONNECTIONS.
- CHAMBERS MUST HAVE HORIZONTAL STIFFENING FLEX REDUCTION STEPS BETWEEN THE RIBS.
- THE CHAMBER WILL BE DESIGNED TO WITHSTAND AASHTO H-25 LOAD RATING WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
- HEAVY DUTY UNITS ARE DESIGNATED BY A COLORED STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.
- THE CHAMBER WILL HAVE A RAISED INTEGRAL CAP AT THE TOP OF THE ARCH IN THE CENTER OF EACH UNIT TO BE USED AS AN OPTIONAL INSPECTION PORT OR CLEAN-OUT.
- THE UNITS MAY BE TRIMMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY CORRUGATION.
- THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2000 CERTIFIED FACILITY.

CULTEC HVLV™ FC-24 FEED CONNECTOR PRODUCT SPECIFICATIONS

GENERAL
CULTEC HVLV™ FC-24 FEED CONNECTORS ARE DESIGNED TO CREATE AN INTERNAL MANIFOLD FOR CULTEC RECHARGER MODEL 180HD, 280HD AND 330XLHD STORMWATER CHAMBERS.

CHAMBER PARAMETERS

- THE CHAMBERS WILL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
- THE CHAMBER WILL BE VACUUM THERMOFORMED OF BLACK HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE).
- THE CHAMBER WILL BE OPEN-BOTTOMED.
- THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV™ FC-24 FEED CONNECTOR SHALL BE 12 INCHES (305 MM) TALL, 16 INCHES (406 MM) WIDE AND 24.2 INCHES (614 MM) LONG.
- THE NOMINAL STORAGE VOLUME OF THE HVLV™ FC-24 FEED CONNECTOR WILL BE 0.913 FT³ / FT (0.085 M³ / M) - WITHOUT STONE.
- THE HVLV™ FC-24 FEED CONNECTOR CHAMBER SHALL HAVE 2 CORRUGATIONS.
- THE HVLV™ FC-24 FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT WILL FIT INTO THE SIDE PORTALS OF THE CULTEC RECHARGER STORMWATER CHAMBER AND ACT AS CROSS FEED CONNECTIONS CREATING AN INTERNAL MANIFOLD.
- THE CHAMBER WILL BE DESIGNED TO WITHSTAND AASHTO H-25 LOAD RATING WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
- THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2000 CERTIFIED FACILITY.

CULTEC NO. 20L™ POLYETHYLENE LINER

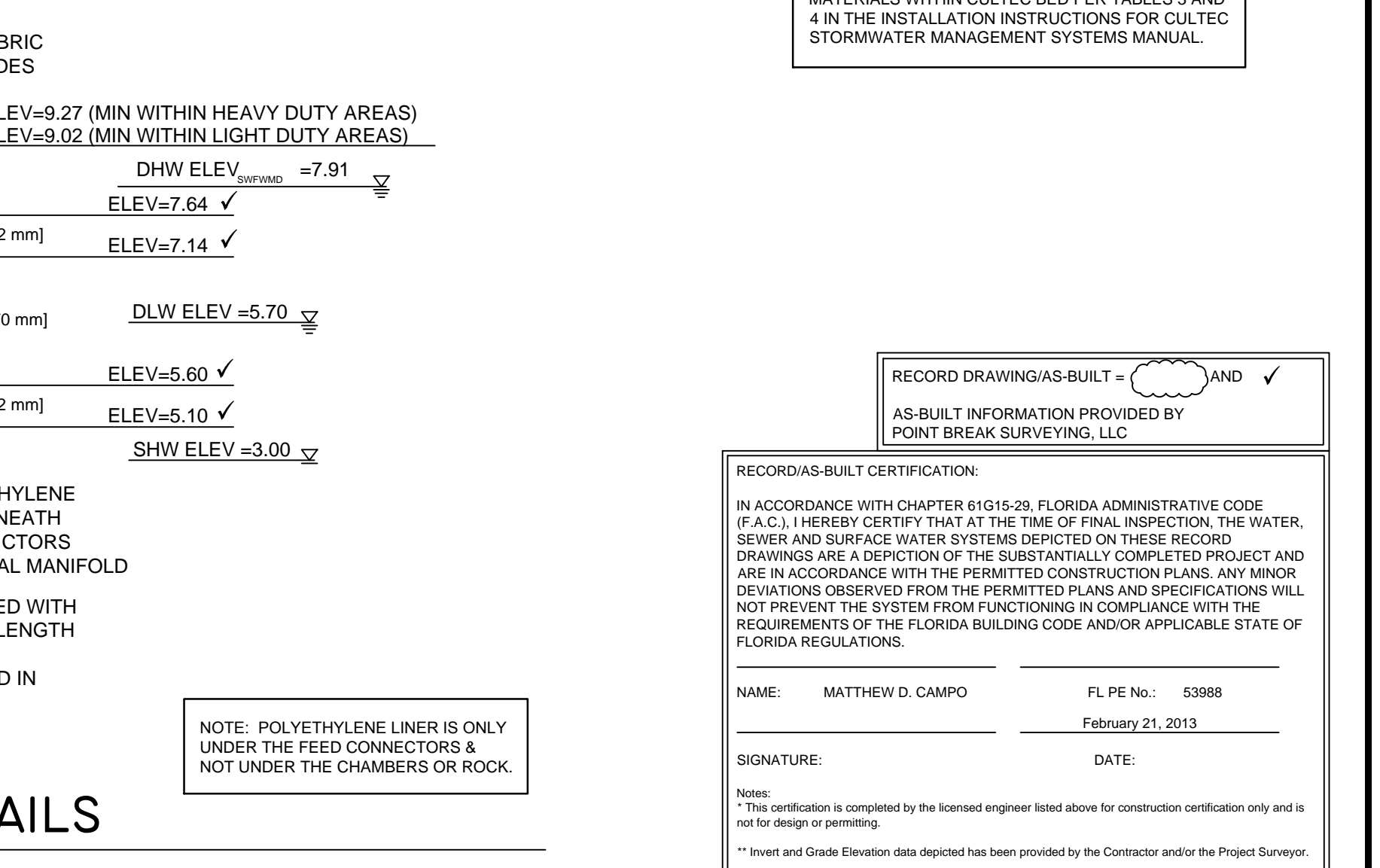
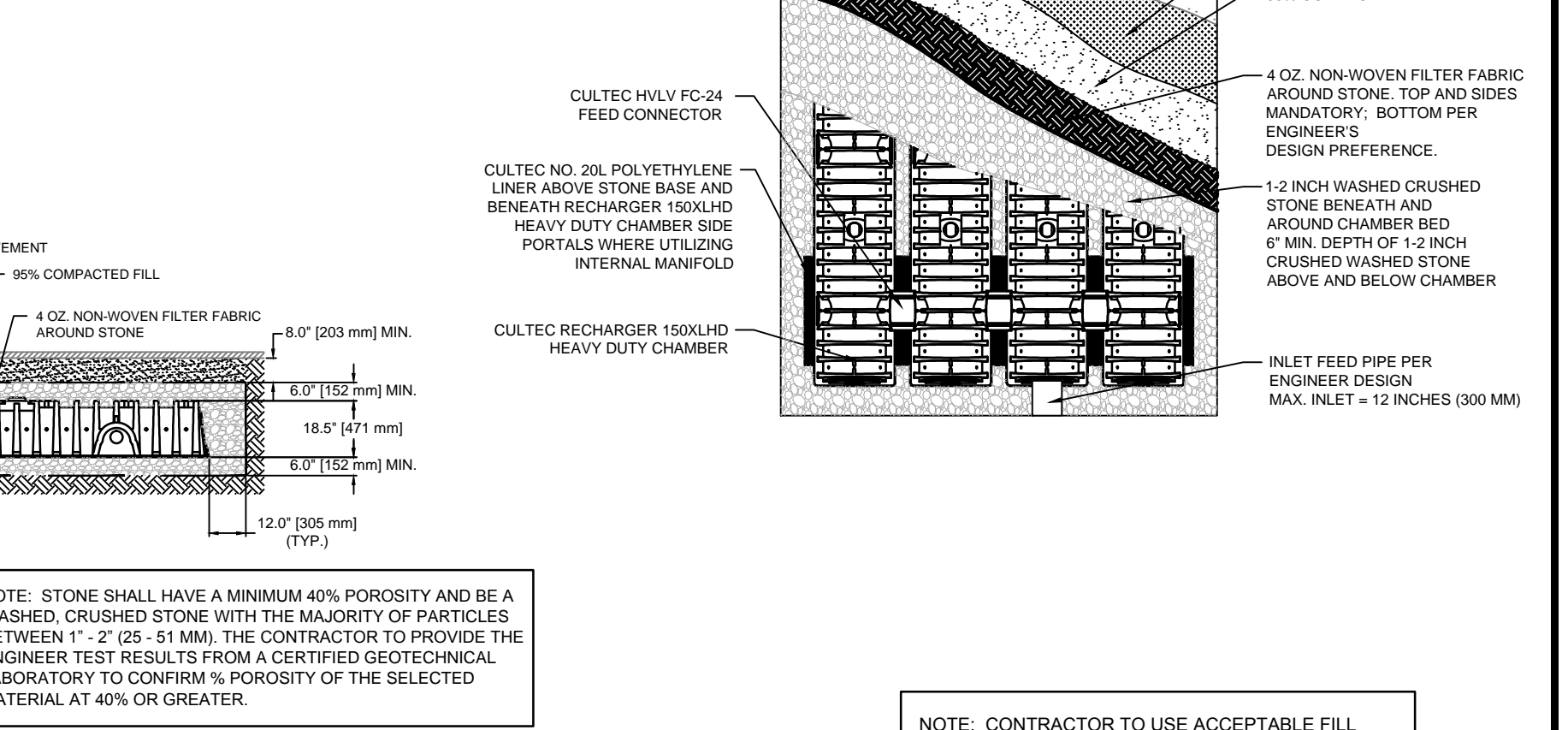
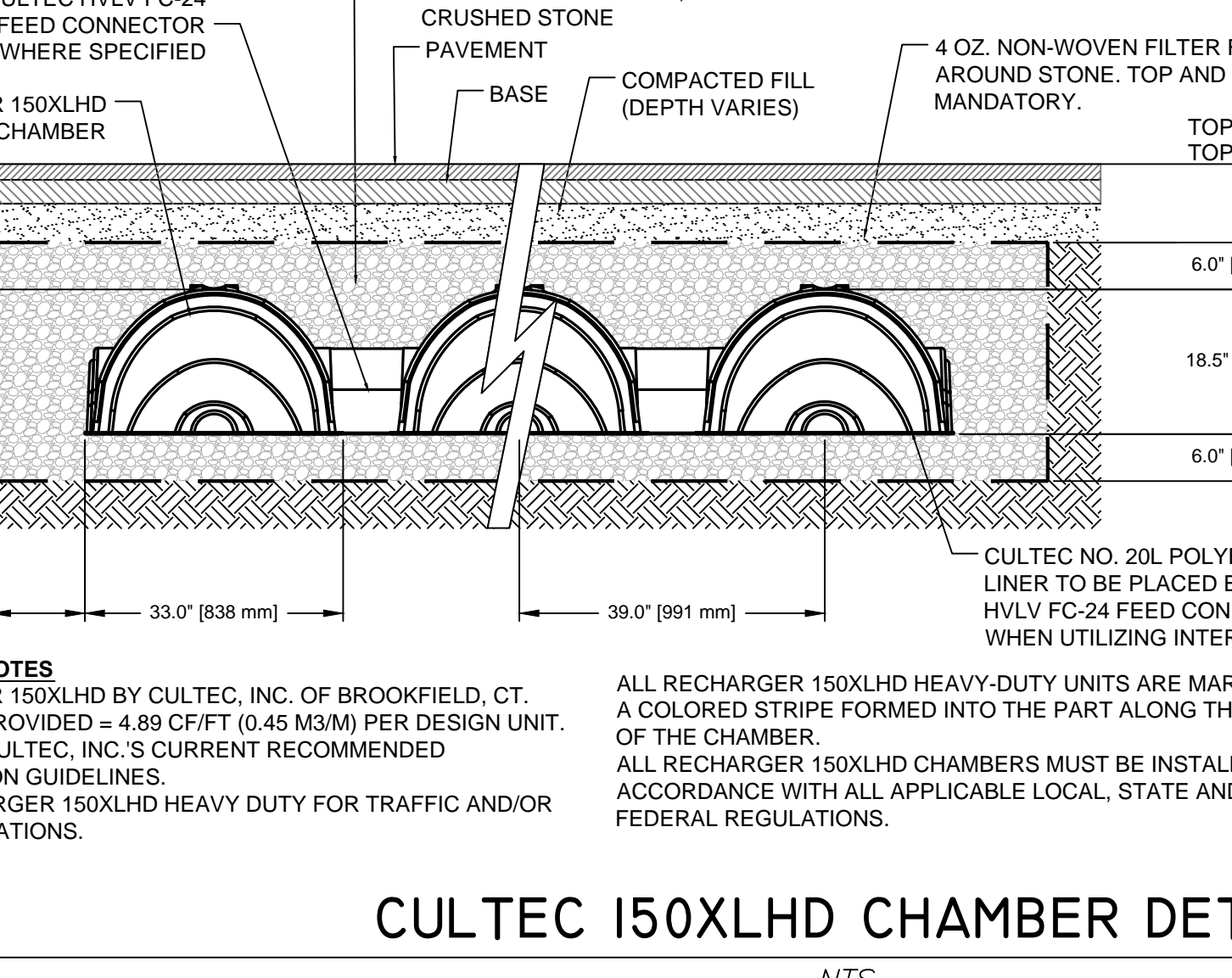
GENERAL
CULTEC NO. 20L™ POLYETHYLENE LINER IS DESIGNED AS AN IMPERVIOUS UNDERLAYMENT TO PREVENT SCOURING CAUSED BY WATER MOVEMENT WITHIN THE CULTEC CHAMBERS AND FEED CONNECTORS UTILIZING THE CULTEC MANIFOLD FEATURE.

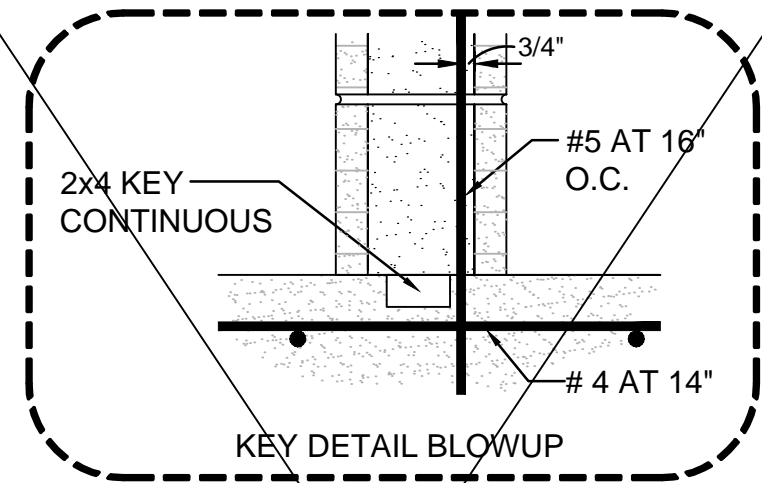
LINER PARAMETERS

- THE LINER WILL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
- THE LINER WILL BE BLACK IN APPEARANCE.
- THE LINER WILL HAVE A NOMINAL THICKNESS OF 20 MIL (0.51 MM).
- THE LINER WILL HAVE A WEIGHT OF 93 LBS/MSF (453 G/M²).
- THE LINER WILL HAVE A TENSILE STRENGTH @ BREAK 1" (25.4 CM) OF 75 LBS (336 N) PER ASTM D6693 TESTING METHOD.
- THE LINER WILL HAVE AN ELONGATION AT BREAK OF 800% PER ASTM D6693 TESTING METHOD.
- THE LINER WILL HAVE A TEAR RESISTANCE OF 11 LBF (49 N) PER ASTM D1004 TESTING METHOD.
- THE LINER WILL HAVE A HYDROSTATIC RESISTANCE OF 100 PSF (689 KPA) PER ASTM D751 TESTING METHOD.
- THE LINER WILL HAVE A PUNCTURE RESISTANCE OF 30 LBF (133 N) PER ASTM D4633 TESTING METHOD.
- THE LINER WILL HAVE A VOLATILE LOSS OF <1% PER ASTM D1203 TESTING METHOD.
- THE LINER WILL HAVE A DIMENSIONAL STABILITY OF <2% PER ASTM D1204 TESTING METHOD.
- THE LINER WILL HAVE A MAXIMUM USE TEMPERATURE OF 1800 F (100 C).
- THE LINER WILL HAVE A MINIMUM USE TEMPERATURE OF -700 F (-510 C).
- THE LINER WILL HAVE A PERM RATING OF 0.041 U.S. PERMS (0.027 METRIC PERMS) PER ASTM E96 METHOD A.
- THE LINER WILL CONSIST OF A BLENDED LINEAR POLYETHYLENE.
- THE LINER WILL NOT CONTAIN PLASTICIZERS.

OPERATION & MAINTENANCE NOTES:

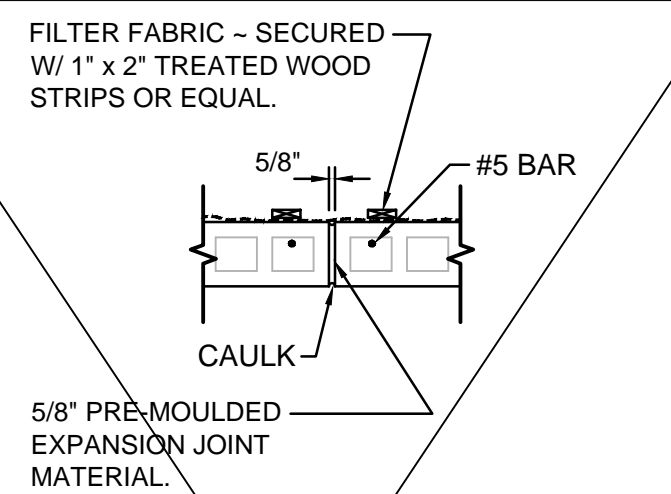
- SWALES: ALL SWALES SHALL BE PERIODICALLY MOVED AND CLEANED. DURING THE MOVING OPERATION, SWALES SHALL BE INSPECTED FOR BARE SPOTS, DAMAGE AND EROSION. ANY BARE SPOTS GREATER THAN ONE (1) SQUARE FOOT AREA SHALL BE SEEDER OR SOODED TO REPLACE THE GRASS COVER. IN CASE OF EROSION OR DAMAGE WHERE UNDERLYING SOIL IS MISSING, THE MISSING SOIL SHALL BE REPLACED AND THE AREA BROUGHT BACK TO GRADE, THEN SEEDER OR SOODED AS REQUIRED.
- INLET GRATES: INLET GRATES WILL BE CHECKED MONTHLY FOR DAMAGE OR BLOCKAGE. ANY DAMAGED GRATES WILL BE REPLACED OR REPAIRED. ANY DEBRIS BLOCKING FULL FLOW THROUGH THE GATE WILL BE REMOVED.
- PIPES AND INLETS: PIPES AND INLETS WILL BE INSPECTED YEARLY FOR DAMAGE OR BLOCKAGE. ANY DAMAGED PIPES OR INLETS WILL BE REPAIRED OR REPLACED. ANY TRASH, DEBRIS, OR SAND ACCUMULATED WILL BE REMOVED.
- RETENTION AREAS: THE SUB-SURFACE CHAMBER SYSTEM SHALL BE INSPECTED YEARLY TO ENSURE NO BLOCKAGES WITHIN THE CHAMBERS. ANY SIGNIFICANT DEBRIS OR BLOCKAGES SHALL BE FLUSHED FROM THE SYSTEM AND REMOVED WITH A VAC TRUCK OR SIMILAR EQUIPMENT.
REFER TO THE OPERATION AND MAINTENANCE GUIDELINES MANUAL PROVIDED BY CULTEC.
THE CHAMBERS SHOULD BE INSPECTED BY CCTV OR OTHER SIMILAR APPROACH EVERY 2 YEARS.



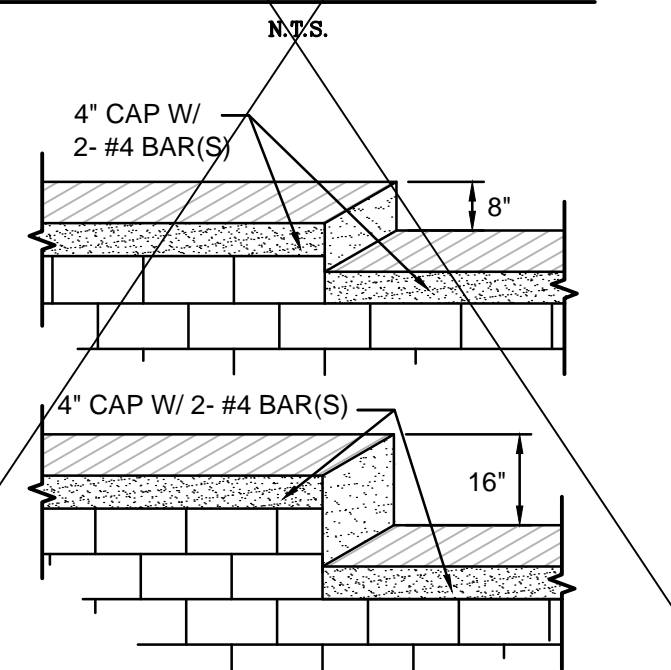


- NOTES:
1. ALL CONCETE AND FILL FOR BLOCK CELLS TO BE 3000 P.S.I. CONCRETE.
 2. REINFORCING STEEL TO BE ASTM A-615, GRADE 60, 60 KSI YIELD.
 3. ALL MASONRY CELLS TO BE FILLED SOLID WITH CEMENT GROUT.
 4. LAY MASONRY UNITS IN A FULL BED OF MORTAR WITH FLUSH JOINTS, DO NOT STRIKE JOINTS.
 5. PROVIDE HORIZONTAL JOINT REINFORCEMENT, 8 GAGE, DUR-A-WALL OR EQUAL, EVERY OTHER COURSE (16\"/>

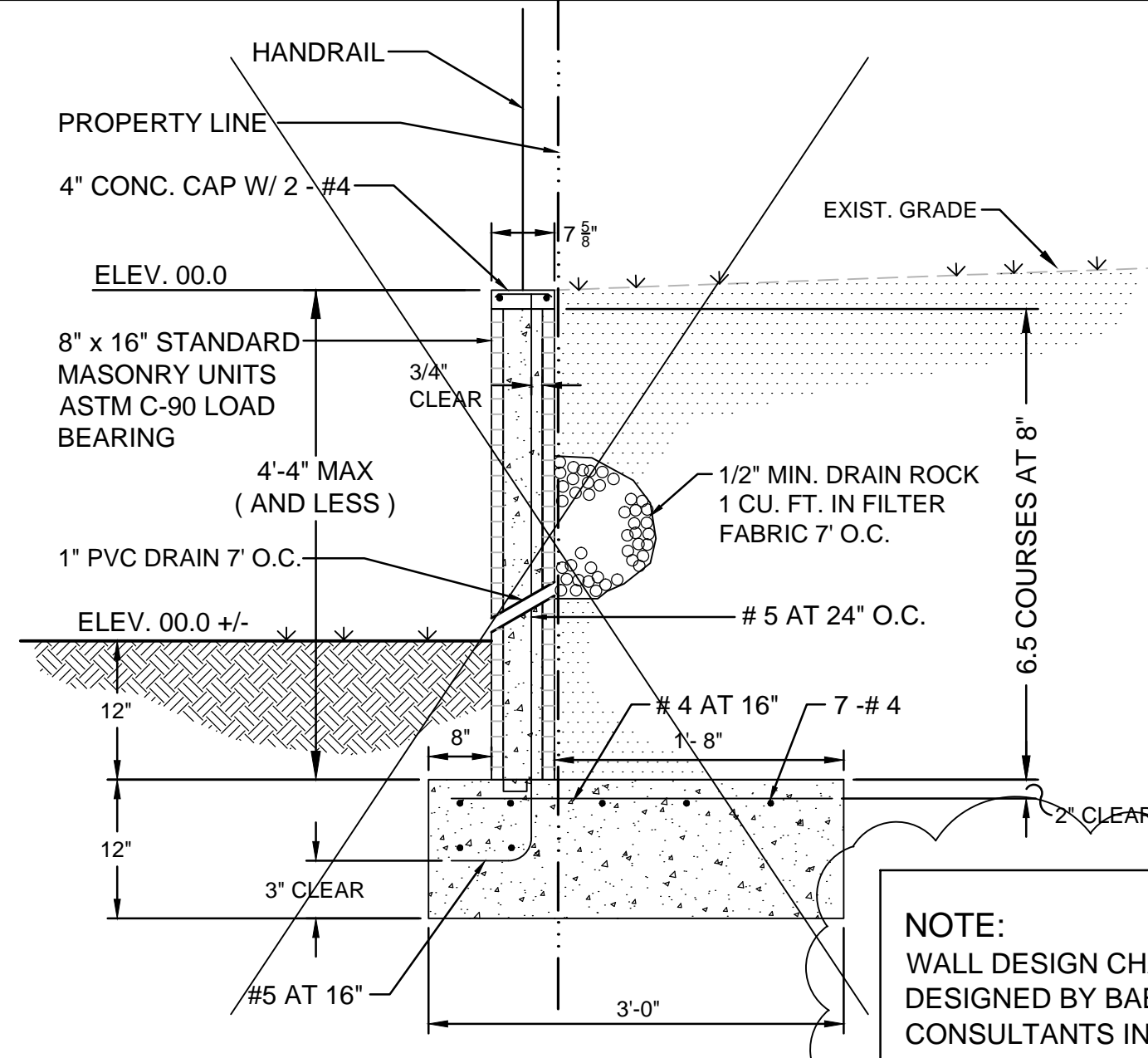
NOTES:
FOR INFORMATIONAL PURPOSES ONLY.
FINAL DESIGN BY STRUCTURAL ENGINEER.
WALLS TO HAVE HANDRAIL MOUNTED ON WALL TOP.



TYPICAL EXPANSION JOINT

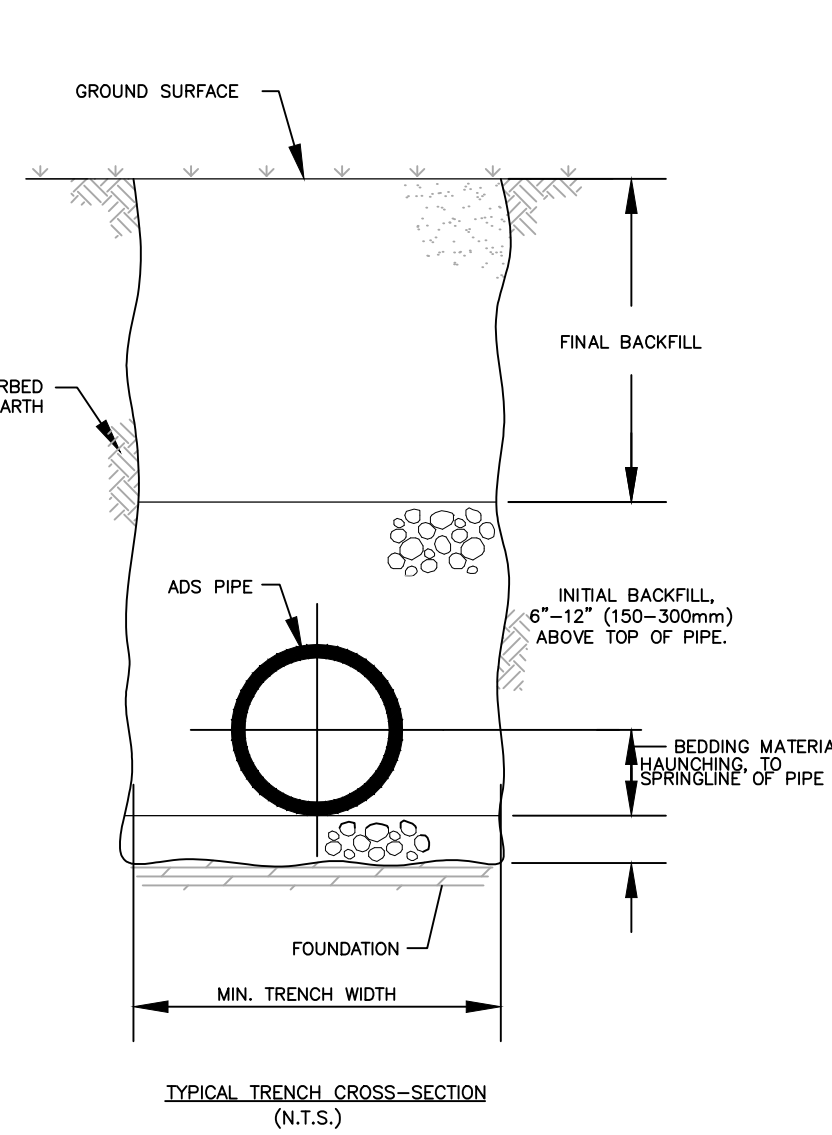


TYP. MASONRY RETAINING WALL STEP-DOWN



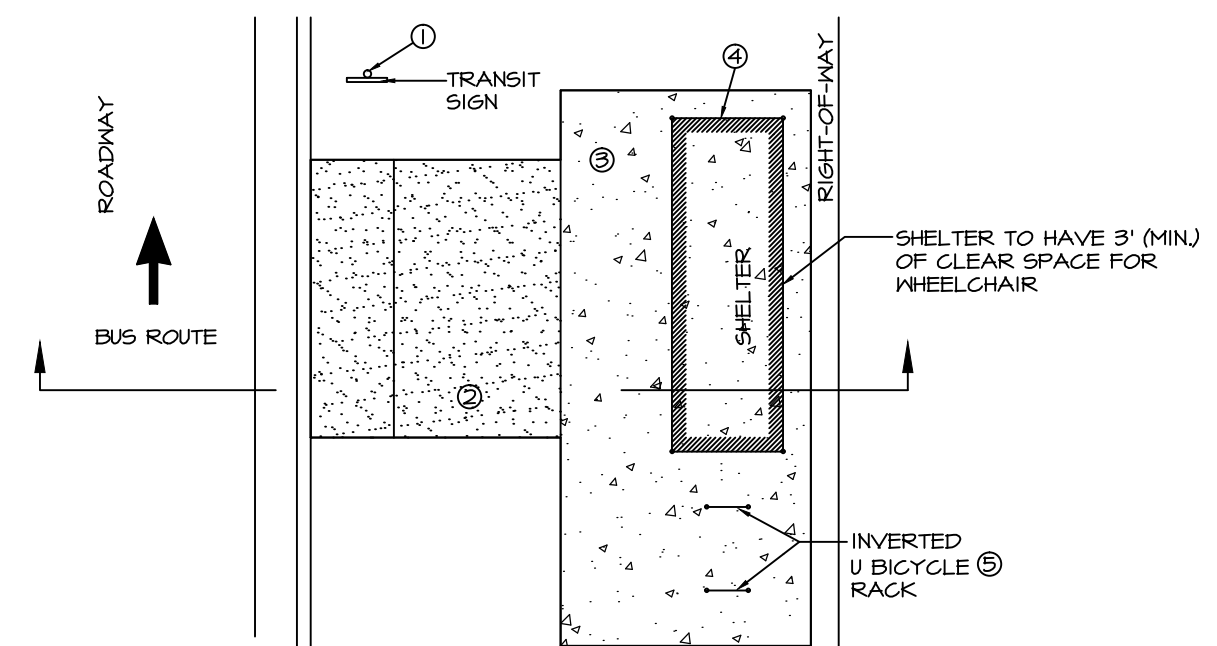
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TRENCH INSTALLATION DETAIL

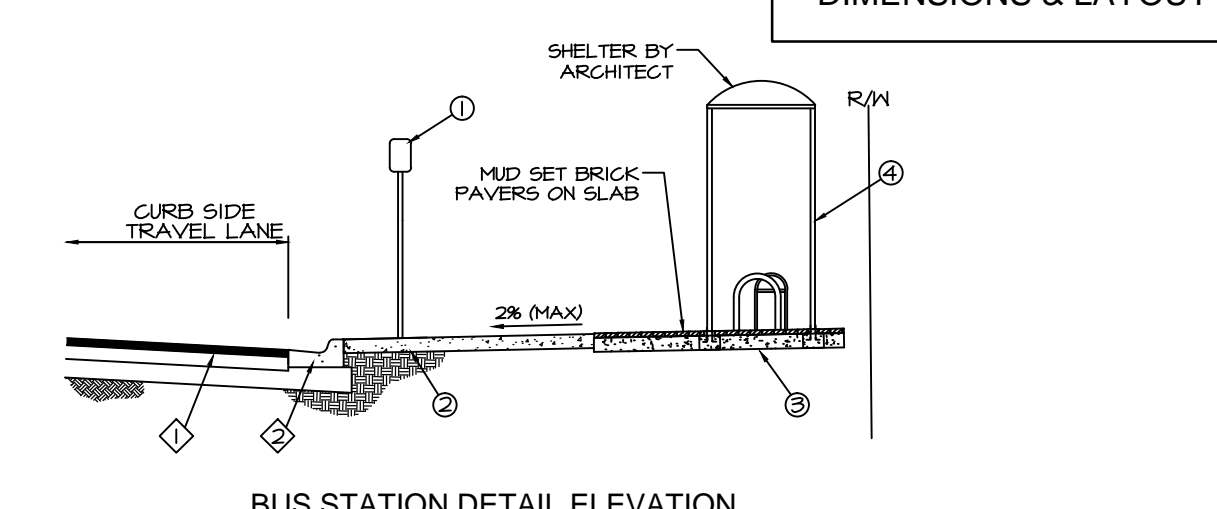


ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT. NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

- NOTES:
1. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH A FOUNDATION OF CLASS I OR II MATERIAL AS DEFINED IN ASTM D2321, "STANDARD PRACTICE FOR INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS," LATEST EDITION, AS AN ALTERNATIVE AND AT THE DISCRETION OF THE ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A WOVEN GEOTEXTILE FABRIC.
 2. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III AND INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100-600mm) CORRUGATED POLYETHYLENE PIPE (CPEP); 6" (150mm) FOR 30"-60" (750-1500mm) CPEP.
 3. HAUNCHING AND INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III AND INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
 4. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, MINIMUM TRENCH WIDTHS SHALL BE AS FOLLOWS:
- | NOMINAL PIPE SIZE (in.) | MIN. RECOMMENDED TRENCH WIDTH (in.) |
|-------------------------|-------------------------------------|
| 4 (100) | 21 (530) |
| 6 (150) | 28 (710) |
| 8 (200) | 26 (661) |
| 10 (250) | 28 (710) |
| 12 (300) | 30 (762) |
| 15 (375) | 36 (914) |
| 18 (450) | 39 (990) |
| 24 (600) | 48 (1220) |
| 30 (750) | 58 (1470) |
| 36 (900) | 64 (1625) |
| 42 (1050) | 74 (1875) |
| 48 (1200) | 80 (2032) |
| 54 (1375) | 88 (2236) |
| 60 (1500) | 96 (2438) |
5. MINIMUM COVER: MINIMUM RECOMMENDED DEPTHS OF COVER FOR VARIOUS LIVE LOADING CONDITIONS ARE SUMMARIZED IN THE FOLLOWING TABLE. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE TAKEN FROM THE TOP OF PIPE TO THE GROUND SURFACE.
- | SURFACE LIVE LOADING CONDITION | MINIMUM RECOMMENDED COVER (in.) |
|--------------------------------|--|
| H25 (FLEXIBLE PAVEMENT) | 12 (300), 24 (600) FOR 60" (1500) PIPE |
| H25 (RIGID PAVEMENT) | 12 (300), 24 (600) FOR 60" (1500) PIPE |
| E80 RAILWAY | 24 (600) |
| HEAVY CONSTRUCTION | 48 (1200) |
- *TOP OF PIPE TO BOTTOM OF BITUMINOUS PAVEMENT SECTION



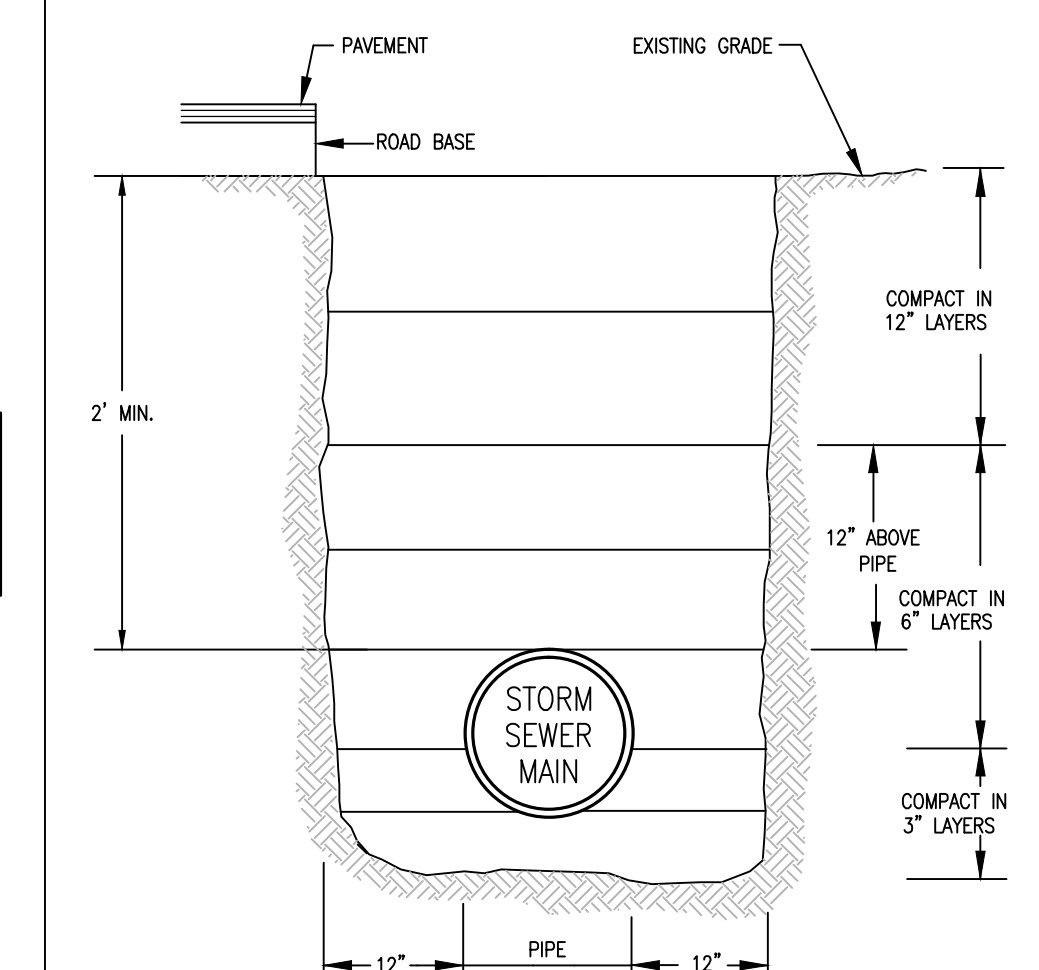
NOTE:
SEE SHEET 5.2 FOR DIMENSIONS & LAYOUT



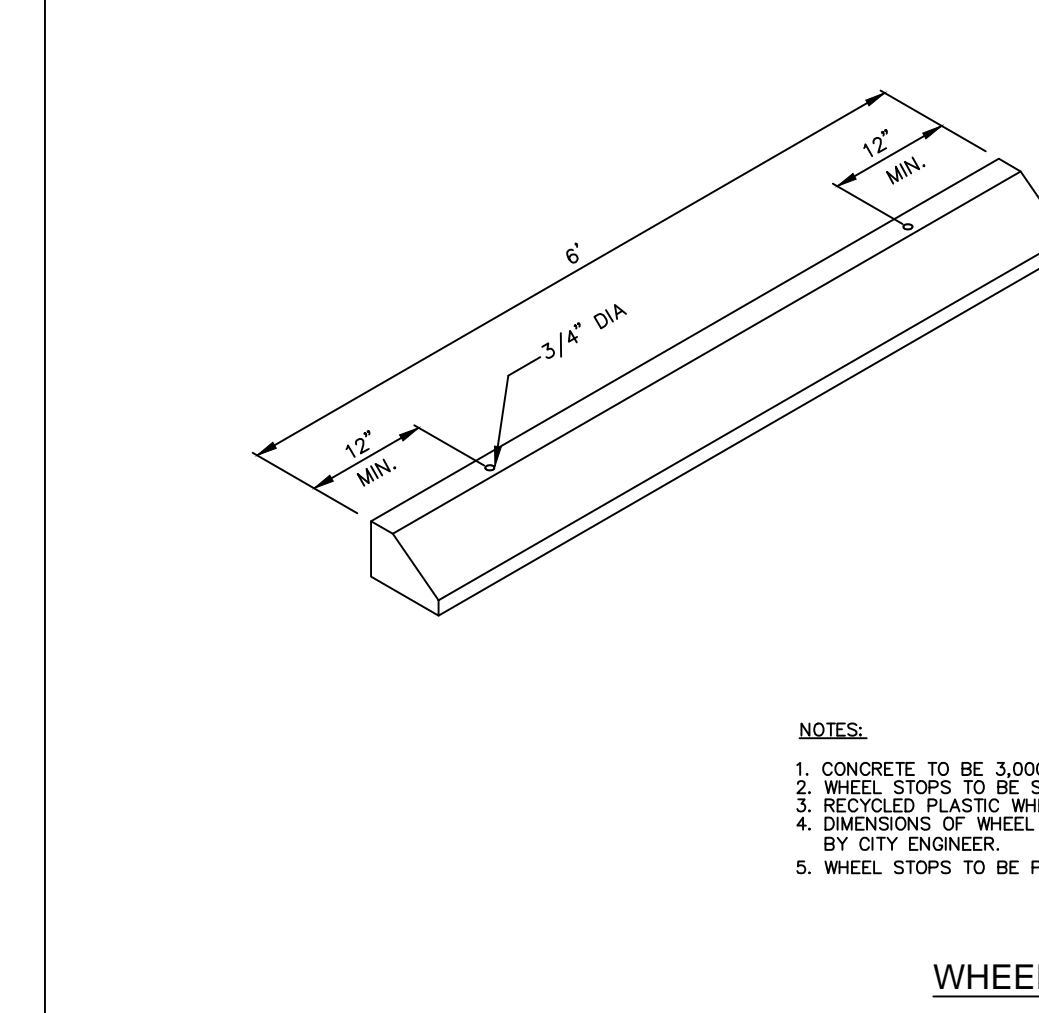
- EXISTING FEATURES LEGEND:
- ◇ ROADWAY PAVEMENT
 - ◇ TYPE "T" CURB AND GUTTER
- PROPOSED FACILITIES LEGEND:
- ① SCAT TRANSIT SIGN TO BE RELOCATED FROM EXIST. LOCATION BY CONTRACTOR.
 - ② CONCRETE BOARDINGS & ALIGHTING AREA (6" THICK) BY CONTRACTOR.
 - ③ CONCRETE SHELTER PAD (6" THICK) BY CONTRACTOR.
 - ④ TRANSIT SHELTER WITH BENCH BY ARCHITECT.
 - ⑤ BIKE RACK BY CONTRACTOR.

- NOTES:
1. ALL CONCRETE SHALL BE 3000 PSI CONCRETE FOR NON-STRUCTURAL PADS. REINFORCED 4000 PSI CONCRETE SHALL BE UTILIZED FOR ALL PADS BEARING STRUCTURES.
 2. THE BIKE RACK SHALL BE AN INVERTED "U" TYPE, PVC COATED, METAL PIPE RACK IN ACCORDANCE WITH SC&AT STANDARDS.
 3. BOARDINGS AND ALIGHTING AREAS SHALL BE PROVIDED IN ACCORDANCE WITH APPLICABLE ADA STANDARDS, FOOT PLANS PREPARATION MANUAL, VOLUME I, CHAPTER 8 AND FLORIDA ADMINISTRATIVE CODE, RULE 14-20 PRIVATE USE OF RIGHT OF WAY.
 4. ALL ABOVE GRADE TRANSIT FACILITY IMPROVEMENTS SHALL BE PLACED TO THE REAR OF THE SIDEWALK, SHOULD RIGHT-OF-WAY, PHYSICAL, OR OTHER CONSTRAINTS PROHIBIT PLACEMENT TO THE FRONT OF THE SIDEWALK. IN NO CASE SHALL ABOVE GRADE TRANSIT FACILITY IMPROVEMENTS IMPACT ANY APPLICABLE FACILITY SETBACKS OR CLEAR ZONES ESTABLISHED IN FOOT DESIGN STANDARDS, INSDOT #1000.
 5. CONCRETE SHELTER PAD SHALL INCLUDE TWO (2) ELECTRICAL RISER STRIPS (PVC CONDUIT AND CAP) TO ACCOMMODATE POTENTIAL SERVICE CONNECTIONS FOR SECURITY LIGHTING AND/OR LOW-VOLTAGE COMMUNICATIONS CABLE.
 6. SHOULD THE EXISTING UTILITY STRIP BE LESS THAN 2' IN WIDTH, THE PROPOSED TRANSIT BUS STOP SIGN SHALL BE PLACED IN AN ALTERNATIVE LOCATION IN ACCORDANCE WITH THE MUTCD GUIDELINES.
 7. SHOULD AN UNAVOIDABLE CONSTRAINT HINDER THE DESIRED BOARDINGS AND ALIGHTING AREA TEN (10) FOOT WIDTH, A WIDTH OF LESS THAN TEN (10) FEET MAY BE CONSIDERED. IN NO CASE SHALL THE BOARDING AND ALIGHTING AREA BE LESS THAN FIVE (5) FEET WIDE.
 8. TYPICAL BOARDING AND ALIGHTING AREA CROSS SLOPES SHALL BE 2%, THOUGH THE TYPICAL CROSS SLOPE IS DESIRED, THE BOARDING AND ALIGHTING AREA CROSS SLOPE SHALL NOT EXCEED 2%. SHOULD ADJACENT EXISTING SIDEWALK CROSS SLOPE EXCEED 2%, A SHORT SEGMENT OF 4" THICK CONCRETE SIDEWALK SHALL BE REMOVED AND RECONSTRUCTED TO TRANSITION THE BOARDING AND ALIGHTING AREA BACK INTO THE EXISTING SIDEWALK.
 9. SHOULD A NON-STANDARD SHELTER BE CONSIDERED, THE FOUNDATION SLAB SHALL BE DESIGNED BY A REGISTERED ENGINEER TO MEET THE ARCHITECT AND STRUCTURAL REQUIREMENTS, INCLUDING WIND LOADINGS.
 10. ALL PEDESTRIAN FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN PLANS WHEN PROVIDED, THESE DETAILS, SARASOTA COUNTY STANDARDS SPECIFICATION 480, AND FOOT CRITERIA.

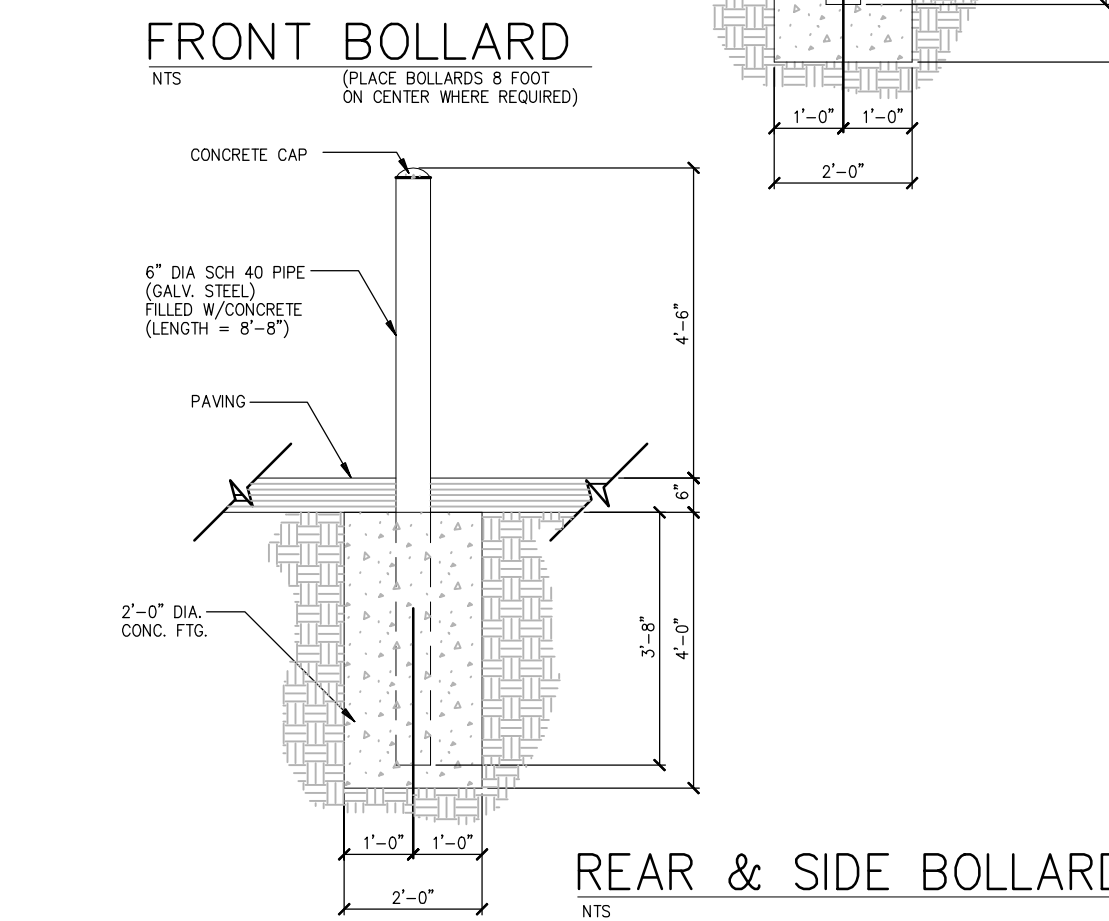
BUS STOP DETAIL



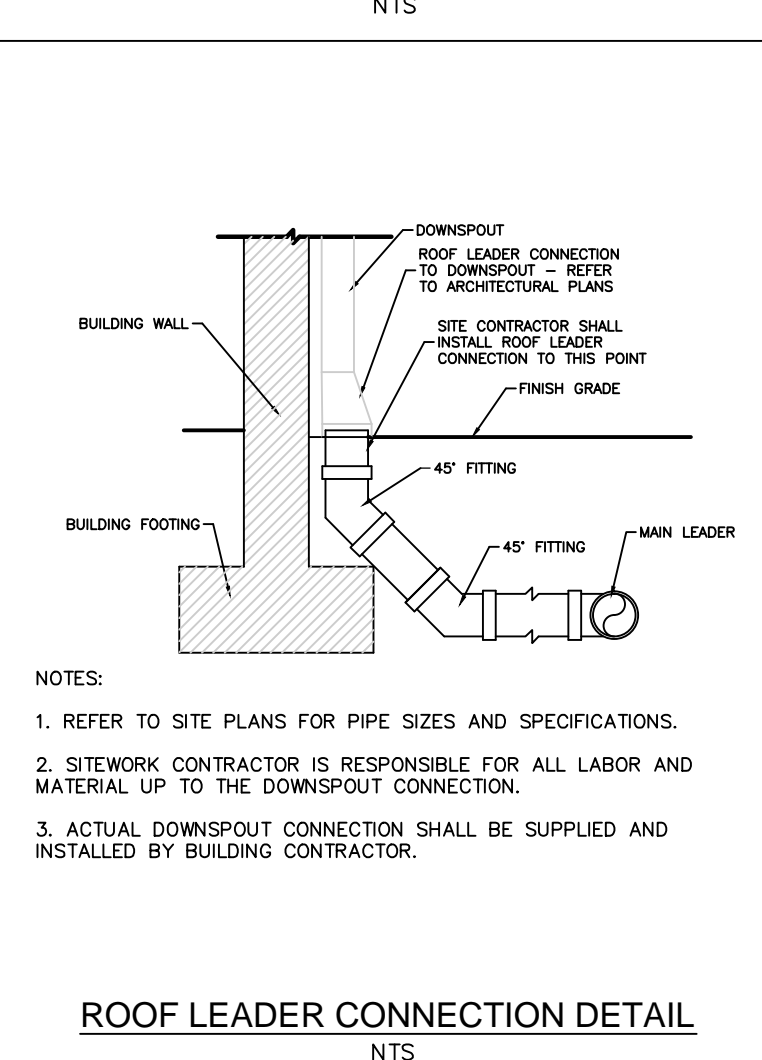
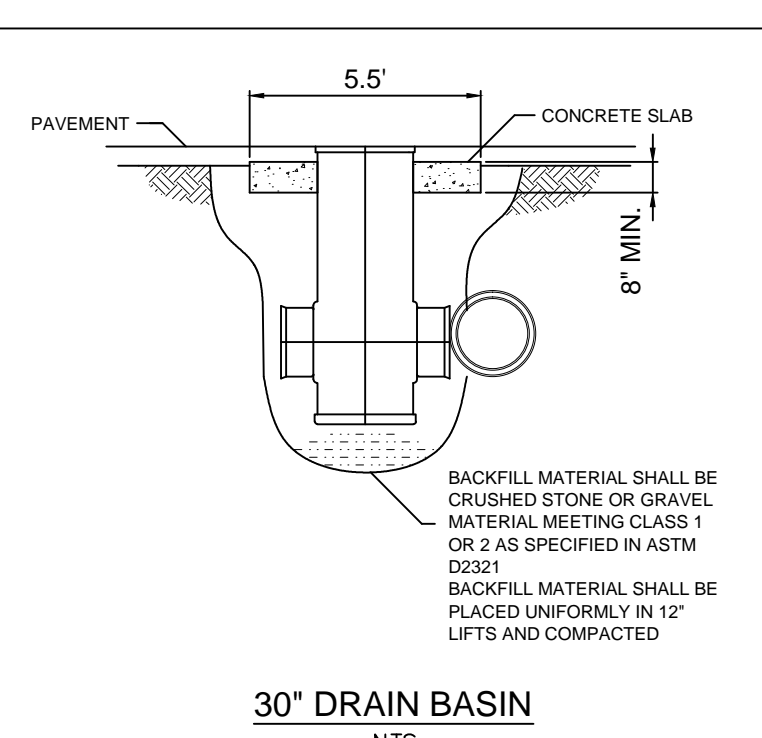
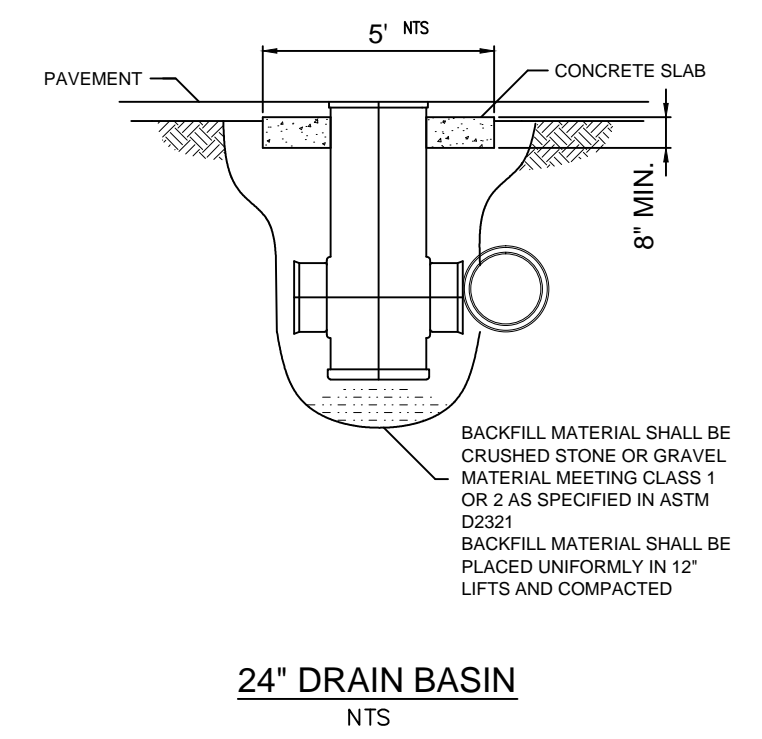
- NOTES:
1. TRENCHES LOCATED UNDER PAVEMENT SHALL BE COMPACTED TO 100% OF MAXIMUM DENSITY BY A.A.S.H.T.O. T-99, METHOD C.
 2. TRENCHES NOT LOCATED UNDER PAVEMENT SHALL BE COMPACTED TO A FIRMNESS EQUAL TO THAT OF THE SOIL ADJACENT TO THE TRENCH.
 3. REPLACEMENT OF PAVED SURFACES SHALL BE MADE IN ACCORDANCE TO APPLICABLE LOCAL REGULATIONS.



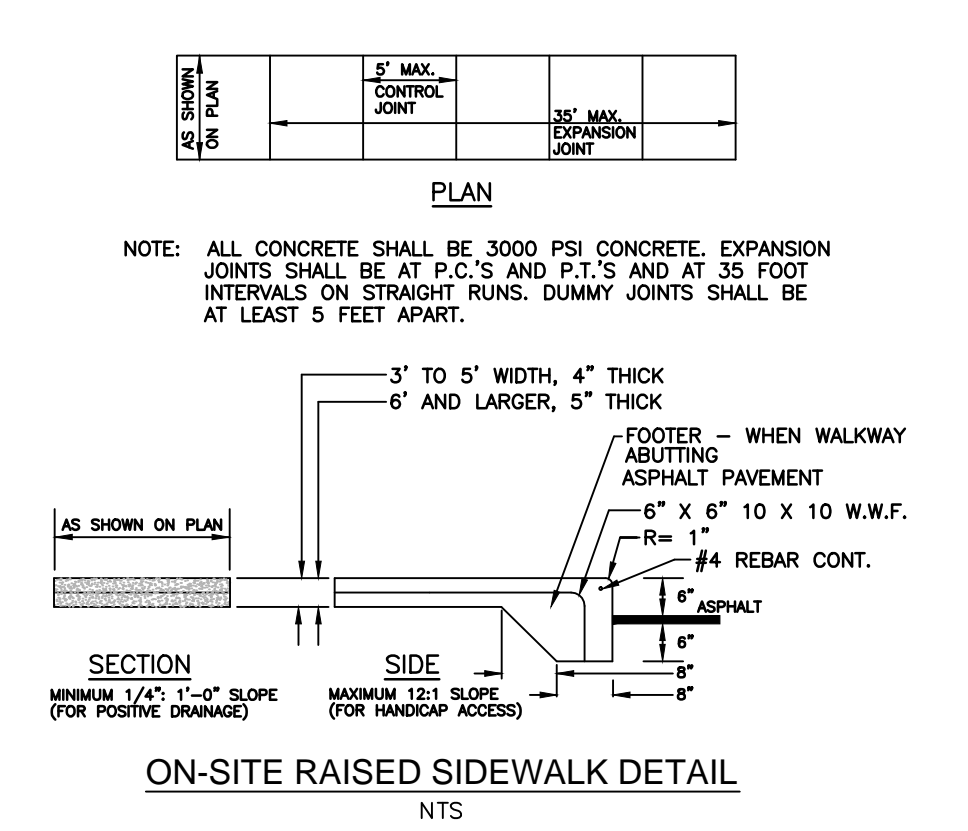
WHEEL STOP DETAIL



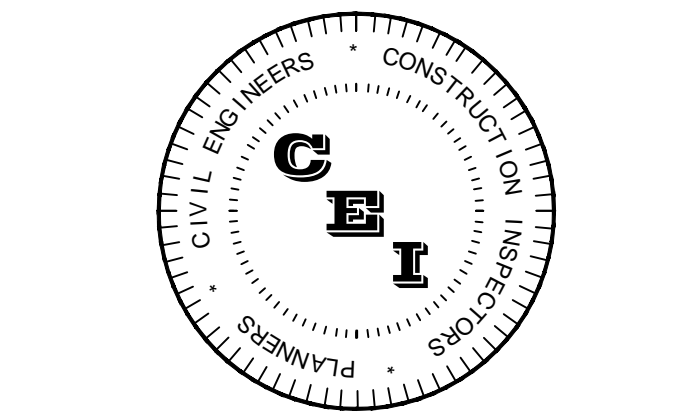
FRONT BOLLARD
REAR & SIDE BOLLARD



ROOF LEADER CONNECTION DETAIL



ON-SITE RAISED SIDEWALK DETAIL



CAMPO ENGINEERING, INC.

FBPR CERTIFICATE OF AUTHORIZATION NO.: 26726

1725 EAST 5TH AVENUE
TAMPA, FL 33605
PHONE: (813) 215-7372
FAX: (813) 902-8782

PROJECT TITLE
SHOPPES OF BAY ISLES

TOWN OF LONGBOAT KEY
CLIENT
PUBLIX SUPER MARKETS, INC.
C/O RMC DEVELOPMENT SERVICES, LLC
8902 NORTH DALE MABRY HWY SUITE 200
TAMPA, FL 33614

REVISIONS

NO.	DESCRIPTION	DATE

ISSUE DATE: 5/2011
REVIEWED BY: MDC
DRAWN BY: JUB
DESIGNED BY: BLM

PROJECT NUMBER
11-007

Matthew D. Campo 53988 05/02/2012
NAME SEAL NO. DATE

SHEET TITLE
PAVING, GRADING & DRAINAGE DETAILS
SHEET NUMBER
8.2

AS-BUILT INFORMATION PROVIDED BY POINT BREAK SURVEYING, LLC

RECORDS-AS-BUILT CERTIFICATION:
IN ACCORDANCE WITH CHAPTER 61015-29, FLORIDA ADMINISTRATIVE CODE (F.A.C.), I HEREBY CERTIFY THAT AT THE TIME OF FINAL INSPECTION, THE WATER, SEWER AND SURFACE WATER SYSTEMS DEPICTED ON THESE RECORD DRAWINGS ARE A DISPICTION OF THE SUBSTANTIALLY COMPLETED PROJECT AND ARE IN ACCORDANCE WITH THE PERMITTED CONSTRUCTION PLANS, ANY MINOR DEVIATIONS OBSERVED FROM THE PERMITTED PLANS AND SPECIFICATIONS WILL NOT PREVENT THE SYSTEM FROM FUNCTIONING IN COMPLIANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE AND/OR APPLICABLE STATE OF FLORIDA REGULATIONS.

NAME: MATTHEW D. CAMPO FL PE No.: 53988
February 21, 2013

SIGNATURE: DATE:

Notes:
* This certification is completed by the licensed engineer listed above for construction certification only and is not for design or permitting.
** Invert and Grade Elevation data depicted has been provided by the Contractor and/or the Project Surveyor.

