

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 437300-1-52-01 & 437300-2-52-01

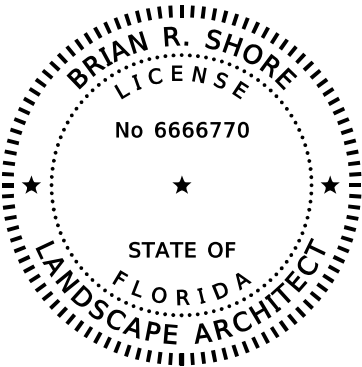
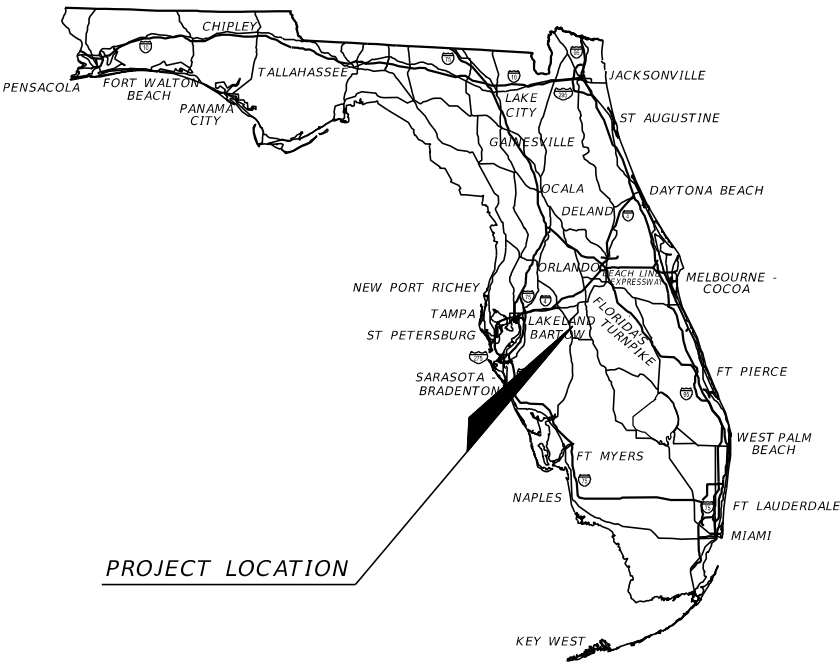
POLK COUNTY (16470)

SUNTRAX TEST FACILITY

LANDSCAPE PLANS

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THIS DOCUMENT HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

LANDSCAPE PLANS
LANDSCAPE ARCHITECT OF RECORD:

BRIAN R. SHORE, RLA
R.L.A NO: 6666770
MILLER LEGG
5747 North Andrews Way,
Fort Lauderdale, Florida 33309-2364
CONTRACT NO: C-9L54
VENDOR NO: F-650563467
CERTIFICATE OF AUTHORIZATION
NO: LC0000337

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THE SIGNATURE MUST BE VERIFIED
ON THE ELECTRONIC DOCUMENTS.

FDOT PROJECT MANAGER:

PATRICK M. MUENCH, P.E.

GEC PROJECT MANAGER:

JOSH PEDERSEN, P.E.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
E8Q39	17	LD-1

PAY ITEM NOTES (437300-1-52-01)

590-70: Irrigation System
Lump Sum Pay Item includes all components within irrigation plans, notes, and details.
Refer to irrigation quantities roadway and terrace.

SUMMARY OF LUMP SUM ITEMS					
PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
590-70	Irrigation System	1		* SEE PAY ITEM NOTES	FPID 437300-1-52-01

REVISIONS				Landscape Architect of Record: Brian R. Shore, RLA No. 6666770 MILLER LEGG 5747 North Andrews Way Fort Lauderdale, Florida 33309 954-436-7000 • www.millerlegg.com Certification of Auth.: LC0000337	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE TABULATION OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					NA	POLK	437300-1-52-01		LD-2

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SUMMARY OF SIDEWALK & DETECTABLE WARNINGS										
LOCATION	SIDE	AREA ID	LENGTH	WIDTH	BUS SHELTER PAD - CONCRETE		PAVERS, ARCH. SIDEWALK		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 4		0526 1 2			
					SY		SY			
STA. TO STA.					P	F	P	F		
705+05.00 720+00.00	LT		15.0	9.0	15.0				* SEE PAY ITEM NOTES	437300-2-52-01
705+65.00 706+15.00	LT	14059					51.3		* SEE PAY ITEM NOTES	437300-2-52-01
705+10.00 705+28.00	LT	14070					15.0		* SEE PAY ITEM NOTES	437300-2-52-01
705+08.00 705+22.00	LT	16522					39.6		* SEE PAY ITEM NOTES	437300-2-52-01
704+15.00 704+55.00	LT	14081					59.3		* SEE PAY ITEM NOTES	437300-2-52-01
SUB-TOTAL:					15.0		165.2			
TOTAL:										

SUMMARY OF PERFORMANCE TURF										
LOCATION	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF		PERFORMANCE TURF (SOD)		DESIGN NOTES	CONSTRUCTION REMARKS
					0570 1 1		0570 1 2			
					SY		SY			
STA. TO STA.					P	F	P	F		
ZOYSIA (SOD)							6300.0		* SEE PAY ITEM NOTES	437300-2-52-01
SEED					11260.0				* SEE PAY ITEM NOTES	437300-2-52-01
SOD							5500.0		* SEE PAY ITEM NOTES	437300-2-52-01
SUB-TOTAL:										
TOTAL:										

SUMMARY OF LUMP SUM ITEMS					
PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
590-70	Irrigation System	1		* SEE PAY ITEM NOTES	437300-1-52-01

SUMMARY OF GENERAL ITEMS											
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.				P	F	P	F		
751-35-11	Bus Shelter				EA	1				* SEE PAY ITEM NOTES	437300-2-52-01
751-36-11	Bicycle Rack				EA	1				* SEE PAY ITEM NOTES	437300-2-52-01
751-37	Trash Receptacle				EA	6				* SEE PAY ITEM NOTES	437300-2-52-01
751-38-11	Bench				EA	5				* SEE PAY ITEM NOTES	437300-2-52-01

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

Landscape Architect of Record:
Brian Shore , RLA No. 6666770
MILLER LEGG
5747 North Andrews Way
Fort Lauderdale, Florida 33309
954-436-7000 • www.millerlegg.com
Certification of Auth.: LC0000337

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NA	POLK	437300-1-52-01

LANDSCAPE
TABULATION OF QUANTITIES

SHEET NO.

LD-3

PAY ITEM NOTES: (437300-2-52-01)

522-4: Bus Shelter Pad
A. Concrete pad only
526-1-2: Pavers, Architectural
A. Pavers
B. Sand base
C. Base material
570-1-1: Performance Turf
A. Seed
570-1-2: Performance Turf (Sod)
590-70: Irrigation System
Lump Sum Pay Item includes all work within the
irrigation notes, details, and plans.
751-35-11: Bus Shelter
A. Structure only
751-36-11: Bicycle Rack
A. Bicycle rack
B. Concrete pad
751-37: Trash Receptacle
A. Trash receptacle including ashtrays
B. Associated pads where applicable
751-38-11: Bench
A. Benches with back
B. Benches with back/arms
C. Associated pads where applicable

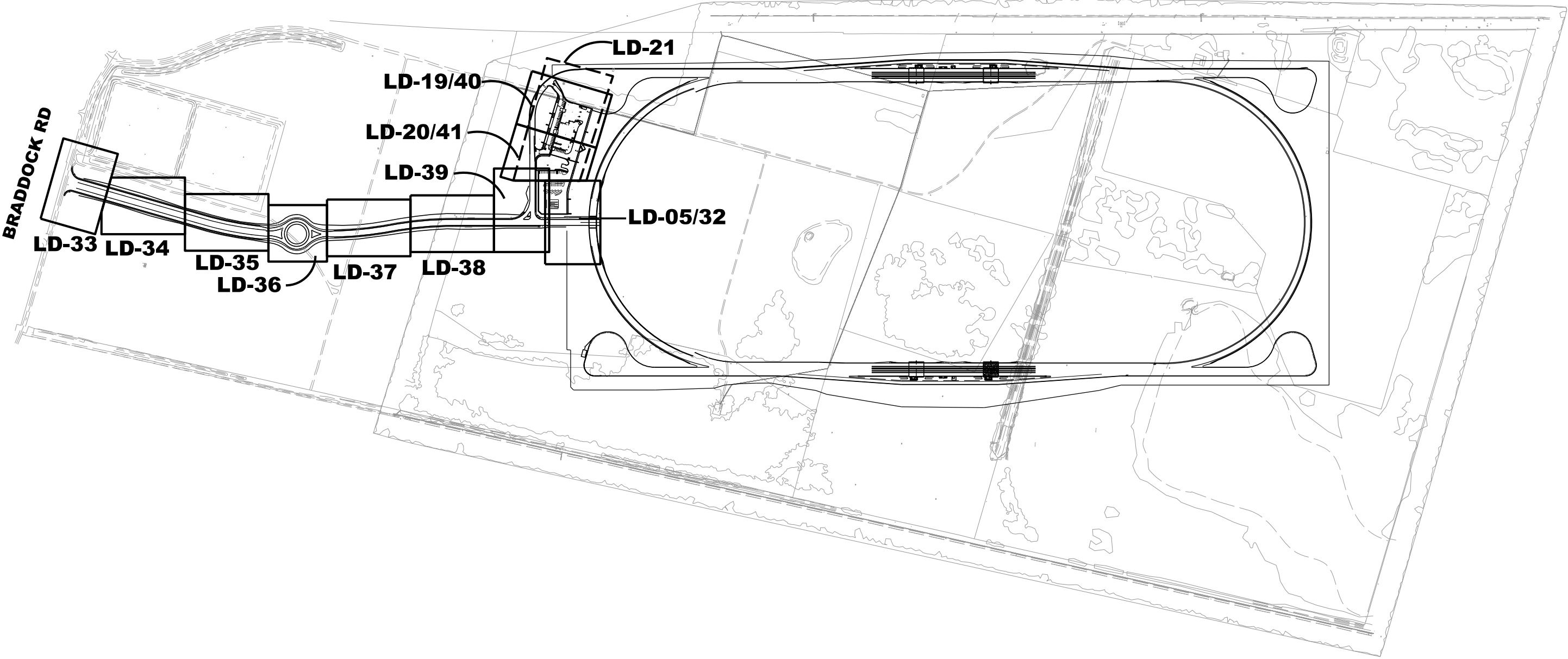
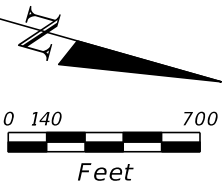
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rgavela

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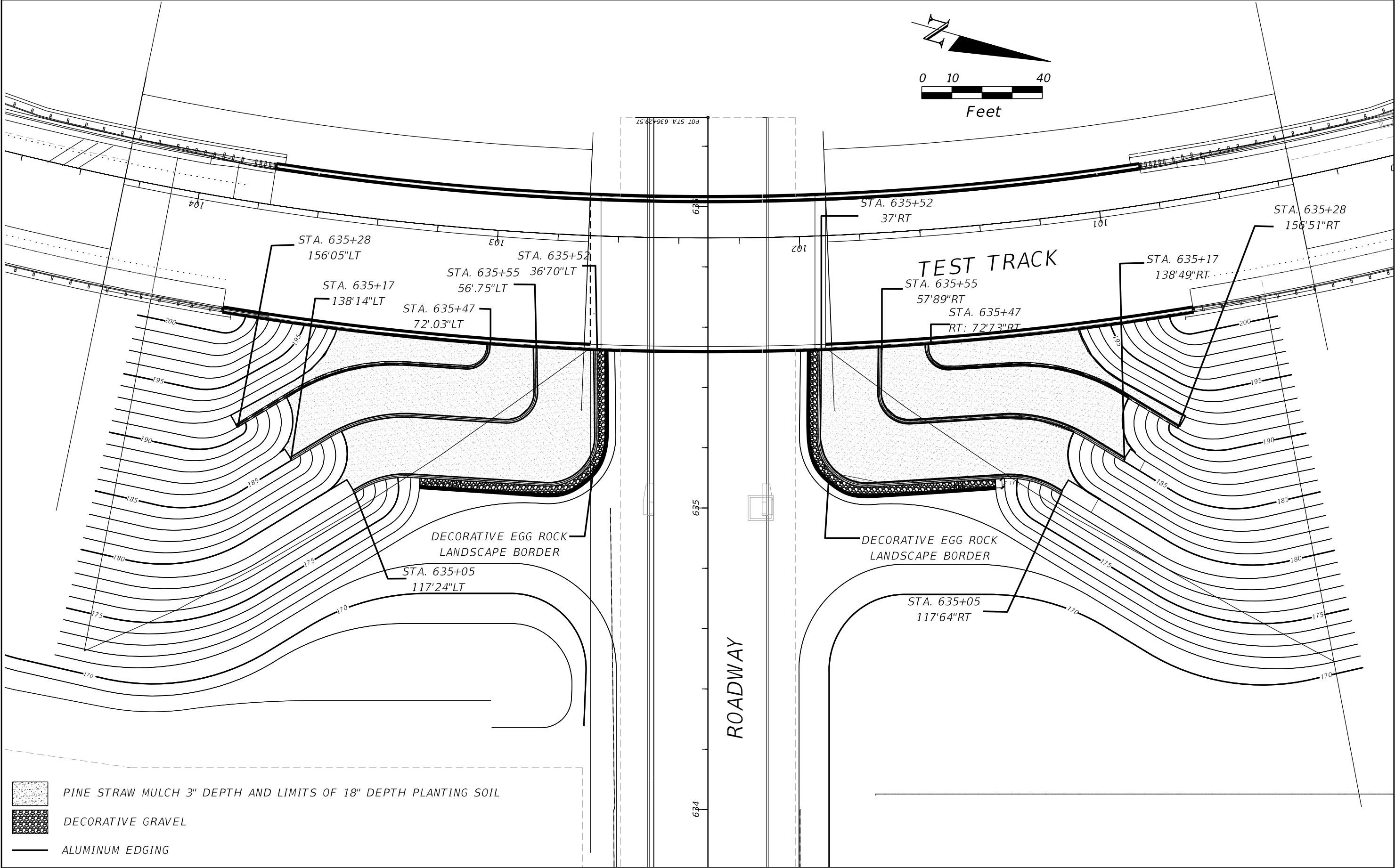
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DATE	DESCRIPTION	DATE	DESCRIPTION						
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LD-4
				NA	POLK	437300-1-52-01			

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-  PINE STRAW MULCH 3" DEPTH AND LIMITS OF 18" DEPTH PLANTING SOIL
-  DECORATIVE GRAVEL
-  ALUMINUM EDGING

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					NA	POLK	437300-1-52-01		LD-5

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SUMMARY OF WALLS (REFER TO STRUCTURAL PLANS FOR PAY ITEM 548-12)-437300-1-52-01									
WALL NO.	ITEM DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.				P	F		
1A	RETAINING WALL SYSTEM (PERMANENT)-GRS WALL SYSTEM	635+05	635+52	LEFT	SF	840.0			437300-1-52-01
	BACKFILL GRAVEL (INCLUDE WITH GRS WALL SYSTEM 1A)				(*CY)	23.0			
	BASE MATERIAL (INCLUDE WITH GRS WALL SYSTEM 1A)				(*CY)	43.0			
	GEOGRID TEXTILE MATERIAL (INCLUDE WITH GRS WALL SYSTEM 1A)				(*SY)	240.0			
	DRAINAGE PIPE AND SOCK (INCLUDE WITH GRS WALL SYSTEM 1A)				(*LF)	130.0			
	PLANTING SOIL (18" DEPTH) (INCLUDE WITH GRS WALL SYSTEM 1A)				(*CY)	134.0			
	FILTER FABRIC (TERRACES)(INCLUDE WITH GRS WALL SYSTEM 1A)				(*SY)	57.0			
	DECORATIVE GRAVEL (INCLUDE WITH GRS WALL SYSTEM 1A)				(*CY)	7.0			
	ALUMINUM EDGING (INCLUDE WITH GRS WALL SYSTEM 1A)				(*LF)	120.0			
	PINE STRAW MULCH 3" DEPTH (INCLUDE WITH GRS WALL SYSTEM 1A)				(*SY)	226.0			
1B	RETAINING WALL SYSTEM (PERMANENT)-GRS WALL SYSTEM	635+17	635+55	LEFT	SF	735.0			437300-1-52-01
	BACKFILL GRAVEL (INCLUDE WITH GRS WALL SYSTEM 1B)				(*CY)	20.0			
	BASE MATERIAL (INCLUDE WITH GRS WALL SYSTEM 1B)				(*CY)	37.0			
	GEOGRID TEXTILE MATERIAL (INCLUDE WITH GRS WALL SYSTEM 1B)				(*SY)	210.0			
	DRAINAGE PIPE AND SOCK (INCLUDE WITH GRS WALL SYSTEM 1B)				(*LF)	115.0			
	PLANTING SOIL (18" DEPTH) (INCLUDE WITH GRS WALL SYSTEM 1B)				(*CY)	104.0			
	FILTER FABRIC (TERRACES) (INCLUDE WITH GRS WALL SYSTEM 1B)				(*SY)	50.0			
	PINE STRAW MULCH 3" DEPTH (INCLUDE WITH GRS WALL SYSTEM 1B)				(*SY)	166.0			
1C	RETAINING WALL SYSTEM (PERMANENT)-GRS WALL SYSTEM	635+28	635+47	LEFT	SF	658.0			437300-1-52-01
	BACKFILL GRAVEL (INCLUDE WITH GRS WALL SYSTEM 1C)				(*CY)	18.0			
	BASE MATERIAL (INCLUDE WITH GRS WALL SYSTEM 1C)				(*CY)	34.0			
	GEOGRID TEXTILE MATERIAL (INCLUDE WITH GRS WALL SYSTEM 1C)				(*SY)	188.0			
	DRAINAGE PIPE AND SOCK (INCLUDE WITH GRS WALL SYSTEM 1C)				(*LF)	100.0			
	PLANTING SOIL (18" DEPTH) (INCLUDE WITH GRS WALL SYSTEM 1C)				(*CY)	45.0			
	FILTER FABRIC (TERRACES) (INCLUDE WITH GRS WALL SYSTEM 1C)				(*SY)	45.0			
	PINE STRAW MULCH 3" DEPTH (INCLUDE WITH GRS WALL SYSTEM 1C)				(*SY)	64.0			
	* INCIDENTAL WORK: PROVIDE MATERIALS AS PART OF 548-12 SF QUANTITY								

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					NA	POLK	437300-1-52-01		
									LD-6

rgavela

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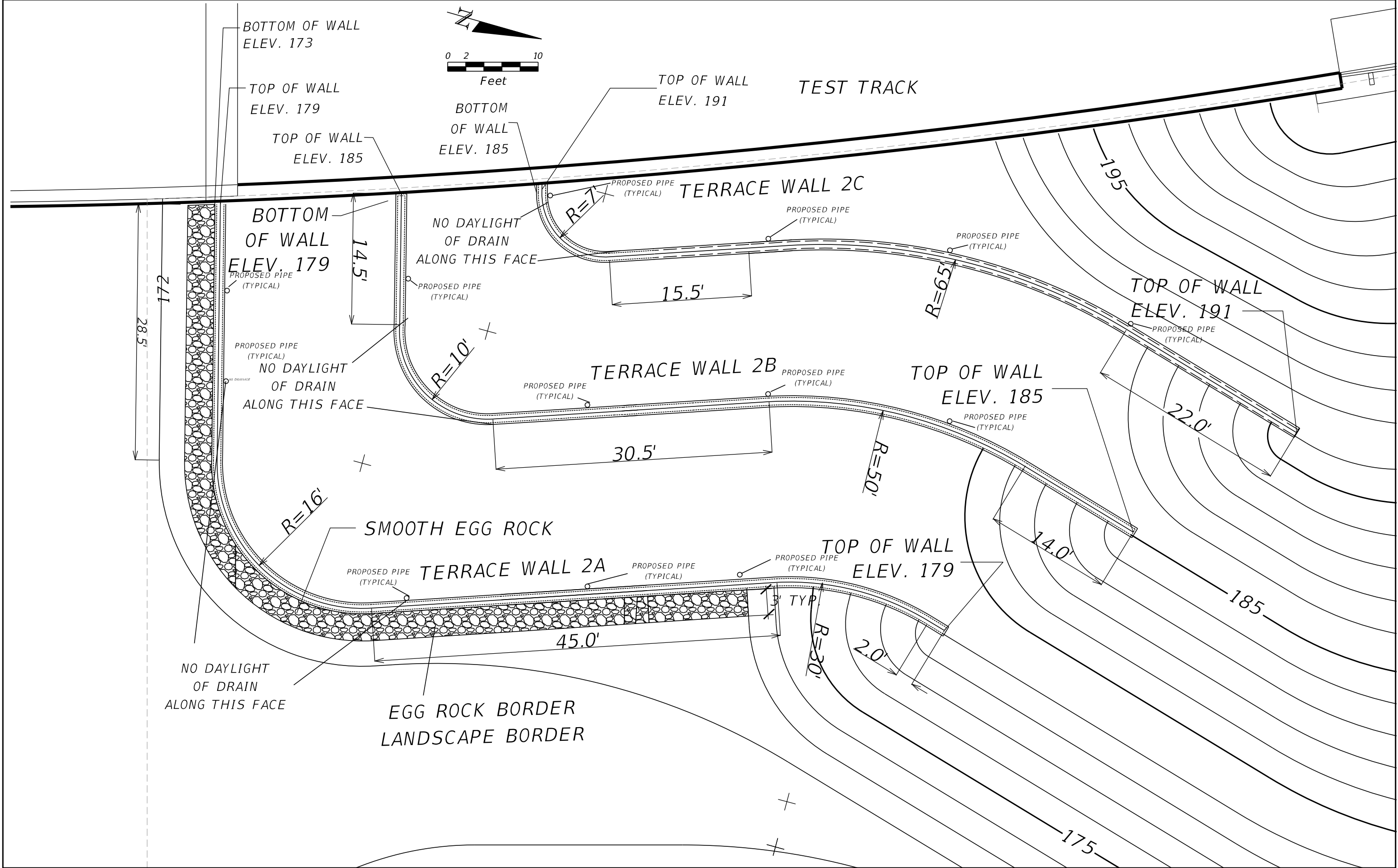
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SUMMARY OF WALLS (REFER TO STRUCTURAL PLANS FOR PAY ITEM 548-12)-437300-1-52-01									
WALL NO.	ITEM DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.				P	F		
2A	RETAINING WALL SYSTEM (PERMANENT)-GRS WALL SYSTEM	635+05	635+52	RIGHT	SF	840.0			437300-1-52-01
	BACKFILL GRAVEL (INCLUDE WITH GRS WALL SYSTEM 2A)				(*CY)	23.0			
	BASE MATERIAL (INCLUDE WITH GRS WALL SYSTEM 2A)				(*CY)	43.0			
	GEOGRID TEXTILE MATERIAL (INCLUDE WITH GRS WALL SYSTEM 2A)				(*SY)	240.0			
	DRAINAGE PIPE AND SOCK (INCLUDE WITH GRS WALL SYSTEM 2A)				(*LF)	130.0			
	PLANTING SOIL (18" DEPTH) (INCLUDE WITH GRS WALL SYSTEM 2A)				(*CY)	134.0			
	FILTER FABRIC (TERRACES)(INCLUDE WITH GRS WALL SYSTEM 2A)				(*SY)	57.0			
	DECORATIVE GRAVEL (INCLUDE WITH GRS WALL SYSTEM 2A)				(*CY)	7.0			
	ALUMINUM EDGING (INCLUDE WITH GRS WALL SYSTEM 2A)				(*LF)	120.0			
	PINE STRAW MULCH 3" DEPTH (INCLUDE WITH GRS WALL SYSTEM 2A)				(*SY)	226.0			
2B	RETAINING WALL SYSTEM (PERMANENT)-GRS WALL SYSTEM	635+17	635+55	RIGHT	SF	735.0			437300-1-52-01
	BACKFILL GRAVEL (INCLUDE WITH GRS WALL SYSTEM 2A)				(*CY)	20.0			
	BASE MATERIAL (INCLUDE WITH GRS WALL SYSTEM 2A)				(*CY)	37.0			
	GEOGRID TEXTILE MATERIAL (INCLUDE WITH GRS WALL SYSTEM 2A)				(*SY)	210.0			
	DRAINAGE PIPE AND SOCK (INCLUDE WITH GRS WALL SYSTEM 2A)				(*LF)	115.0			
	PLANTING SOIL (18" DEPTH) (INCLUDE WITH GRS WALL SYSTEM 2A)				(*CY)	104.0			
	FILTER FABRIC (TERRACES) (INCLUDE WITH GRS WALL SYSTEM 2A)				(*SY)	50.0			
	PINE STRAW MULCH 3" DEPTH (INCLUDE WITH GRS WALL SYSTEM 2A)				(*SY)	166.0			
2C	RETAINING WALL SYSTEM (PERMANENT)-GRS WALL SYSTEM	635+28	635+47	RIGHT	SF	658.0			437300-1-52-01
	BACKFILL GRAVEL (INCLUDE WITH GRS WALL SYSTEM 2A)				(*CY)	18.0			
	BASE MATERIAL (INCLUDE WITH GRS WALL SYSTEM 2A)				(*CY)	34.0			
	GEOGRID TEXTILE MATERIAL (INCLUDE WITH GRS WALL SYSTEM 2A)				(*SY)	188.0			
	DRAINAGE PIPE AND SOCK (INCLUDE WITH GRS WALL SYSTEM 2A)				(*LF)	100.0			
	PLANTING SOIL (18" DEPTH) (INCLUDE WITH GRS WALL SYSTEM 2A)				(*CY)	45.0			
	FILTER FABRIC (TERRACES)(INCLUDE WITH GRS WALL SYSTEM 2A)				(*SY)	45.0			
	PINE STRAW MULCH 3" DEPTH (INCLUDE WITH GRS WALL SYSTEM 2A)				(*SY)	64.0			
	* INCIDENTAL WORK: PROVIDE MATERIALS AS PART OF 548-12 SF QUANTITY								

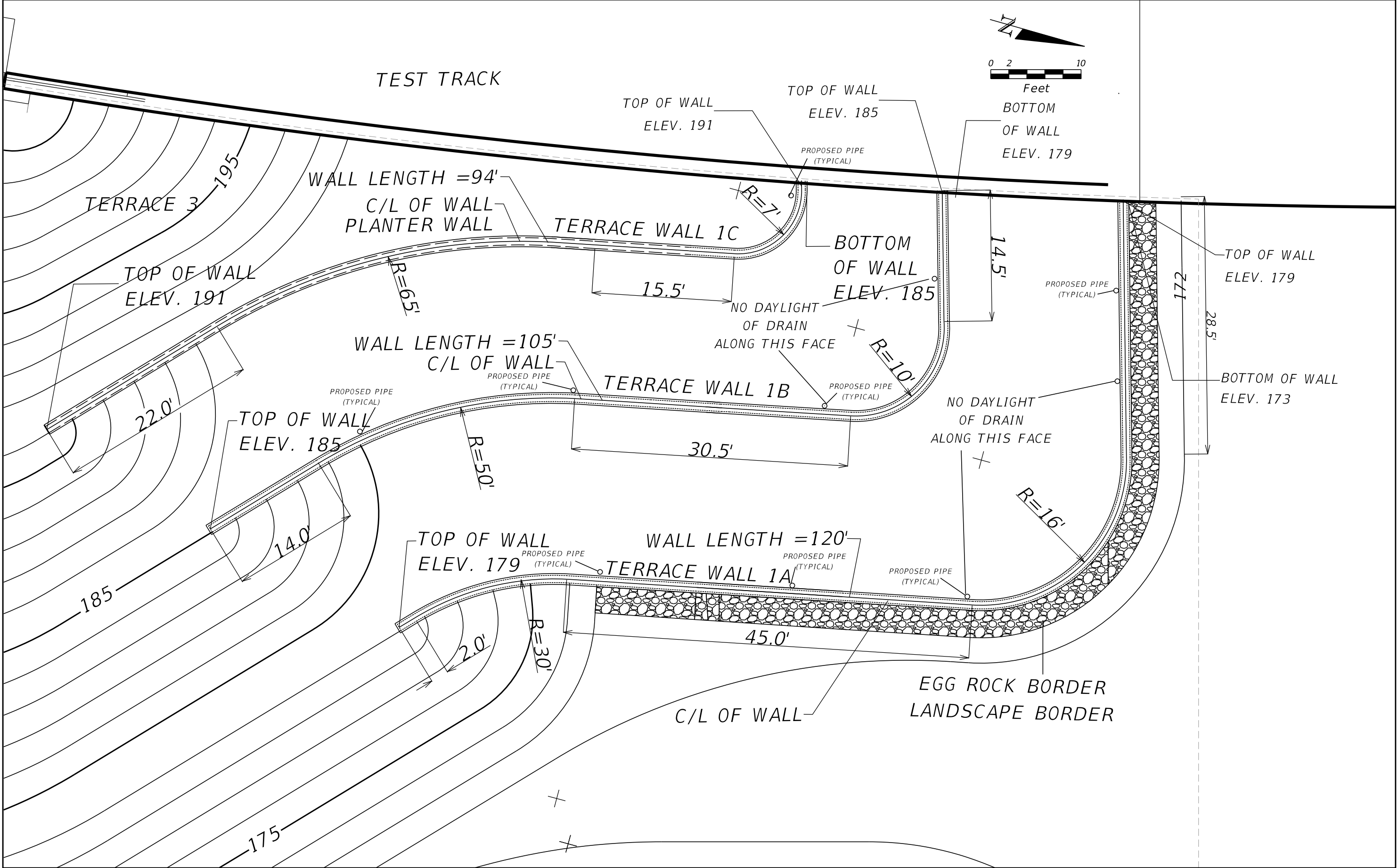
REVISIONS				Landscape Architect of Record: Brian R. Shore, RLA No. 6666770 MILLER LEGG 5747 North Andrews Way Fort Lauderdale, Florida 33309 954-436-7000 • www.millerlegg.com Certification of Auth.: LC0000337	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TABULATION OF QUANTITIES TERRACE WALLS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					NA	POLK	437300-1-52-01		
									LD-7

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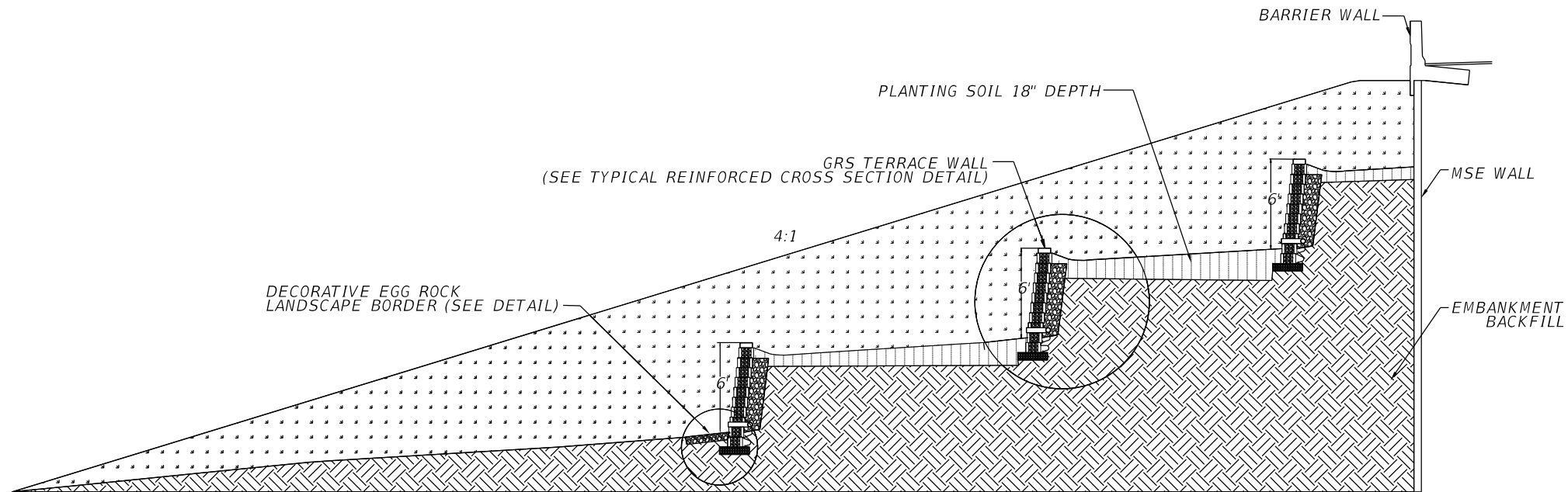
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LD-8
					NA	POLK	437300-1-52-01		

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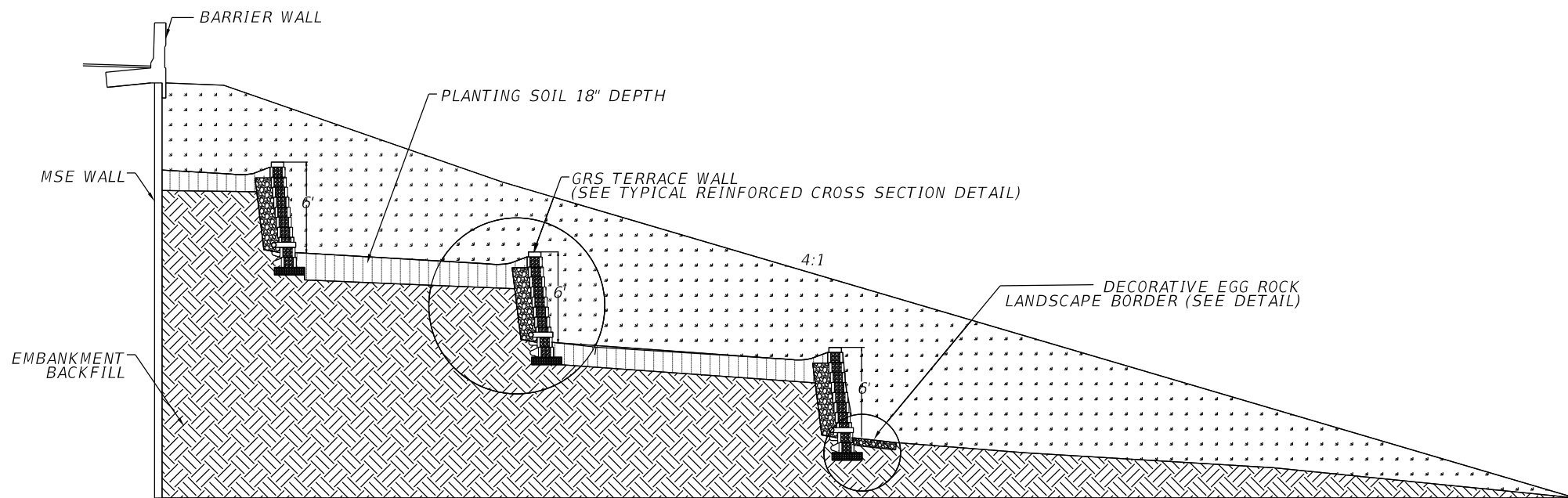


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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					NA	POLK	437300-1-52-01			

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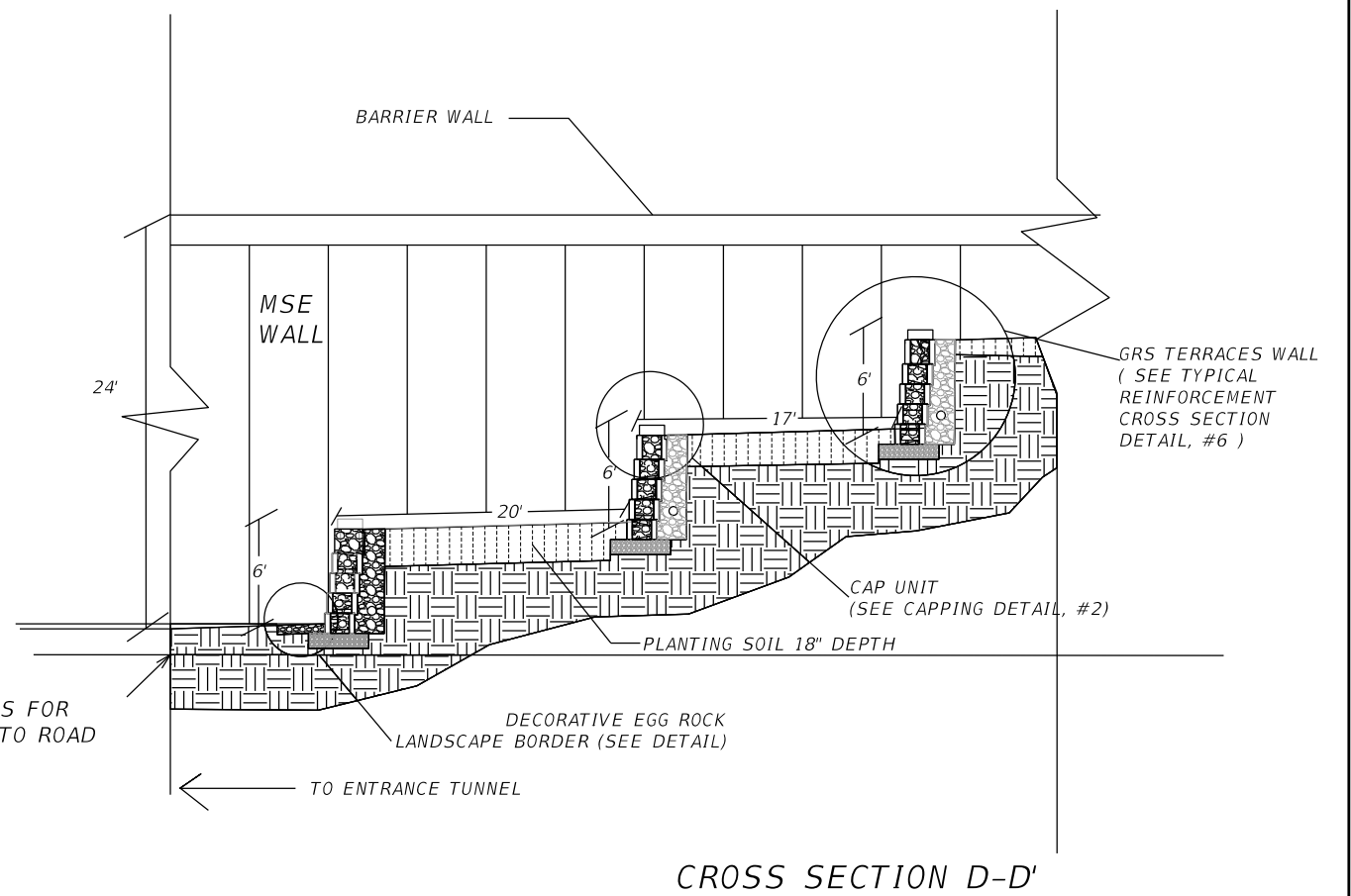
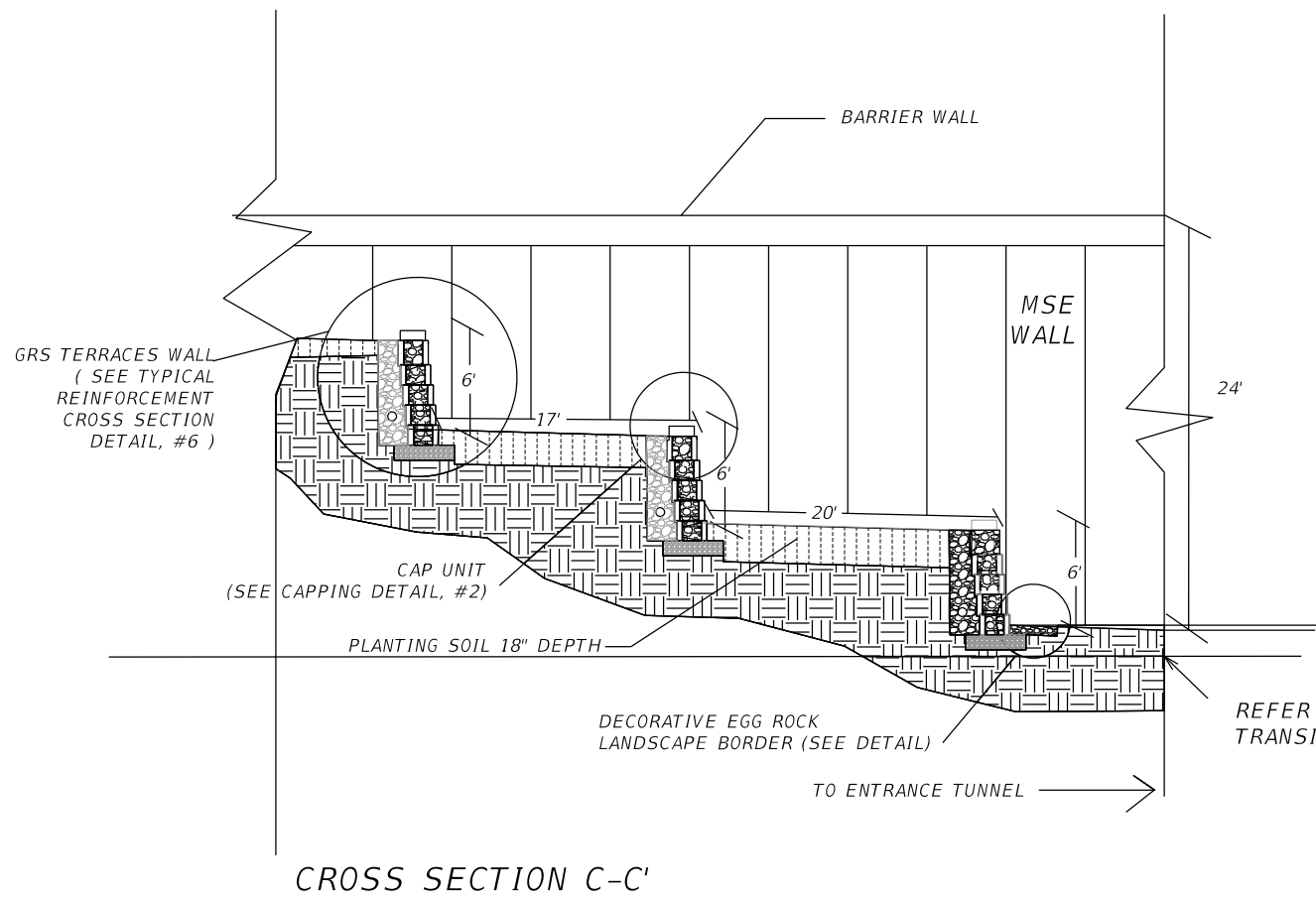
CROSS SECTIONS A-A'



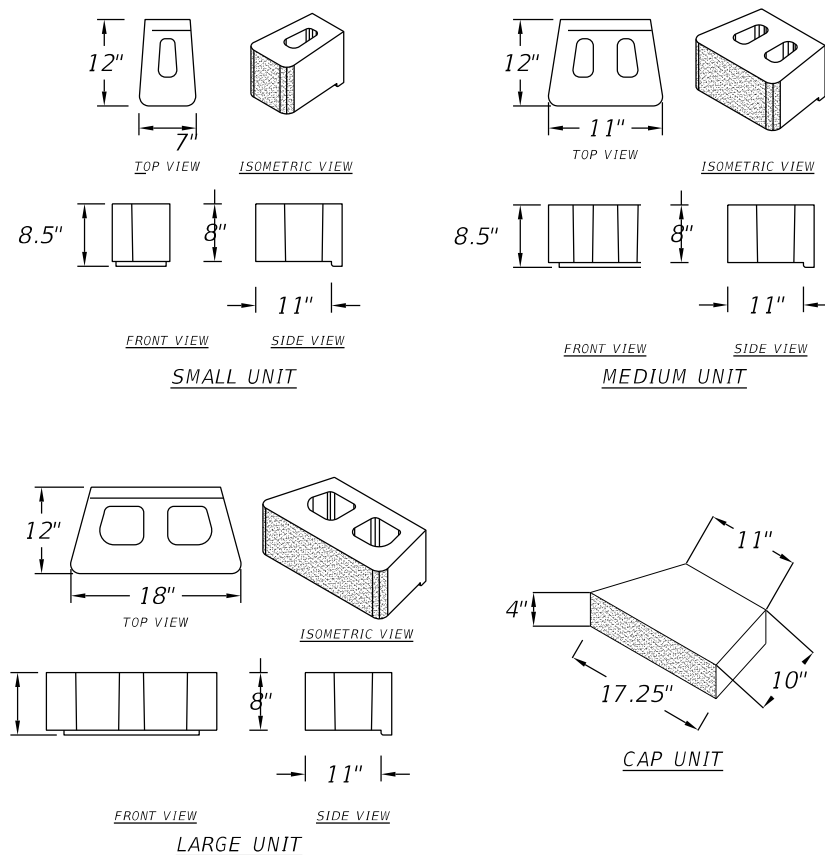
CROSS SECTIONS B-B'

REVISIONS				Landscape Architect of Record: Brian R. Shore, RLA No. 6666770 MILLER LEGG 5747 North Andrews Way Fort Lauderdale, Florida 33309 954-436-7000 • www.millerlegg.com Certification of Auth.: LC0000337	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS TERRACE WALLS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					NA	POLK	437300-1-52-01		LD-10

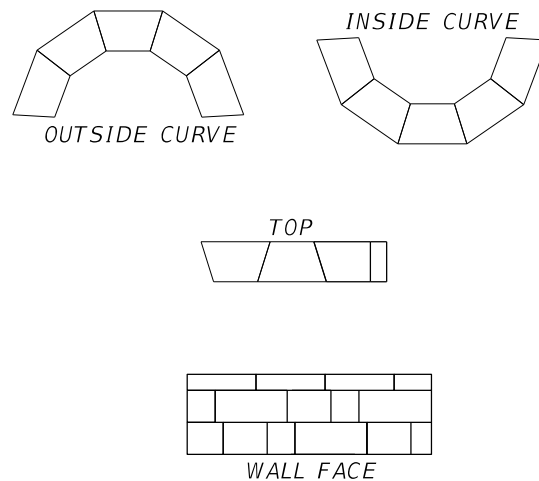
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					NA	POLK	437300-1-52-01		LD-11

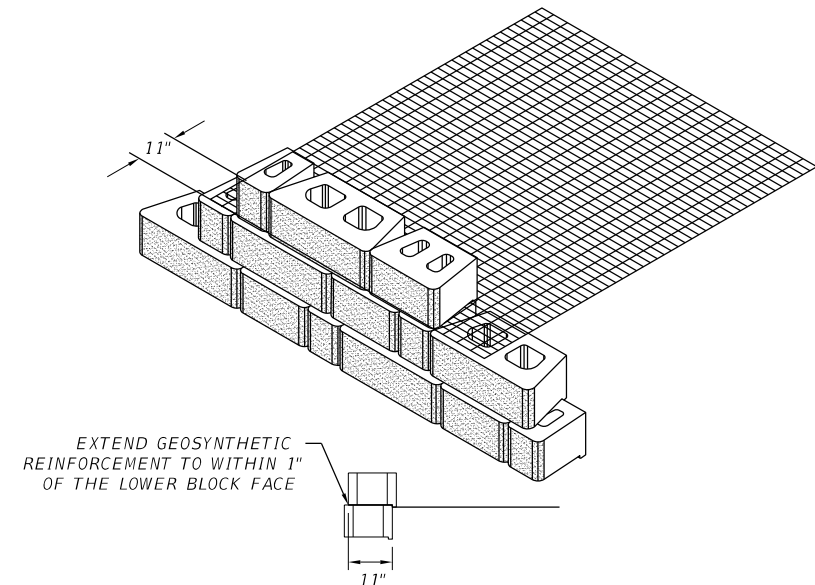


① UNIT SIZE DETAILS

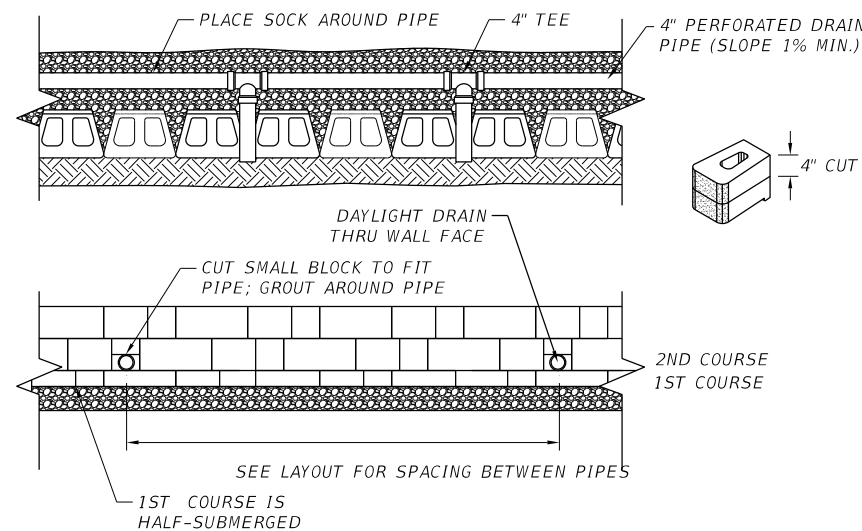


- 1.ALWAYS START CAPPING WALL FROM THE LOWEST ELEVATION.
- 2.LAYOUT CAPS PRIOR TO USING ADHESIVE.
- 3.CUT CAPS TO FIT. VARIOUS COMBINATIONS OF LONG AND SHORT CAP FACES WILL BE NECESSARY FOR RADII GREATER THAN THE MINIMUM.
- 4.ALTERNATE SHORT AND LONG CAP FACES EVERY OTHER CAP TO ACHIEVE A STRAIGHT ROW OF CAPS.
- 5.USE EXTERIOR-GRADE CONSTRUCTION ADHESIVE TO SECURE CAPS.

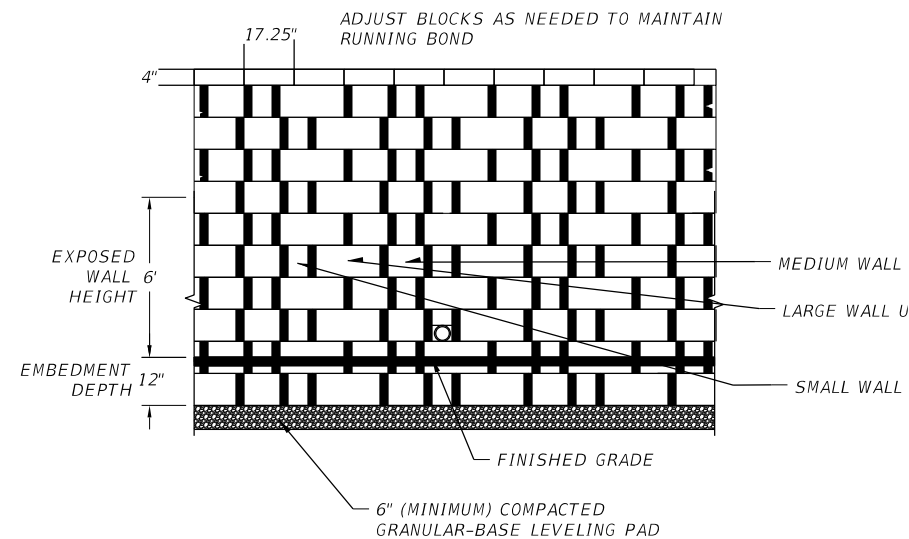
② CAPPING DETAIL



③ REINFORCEMENT CONNECTION DETAIL



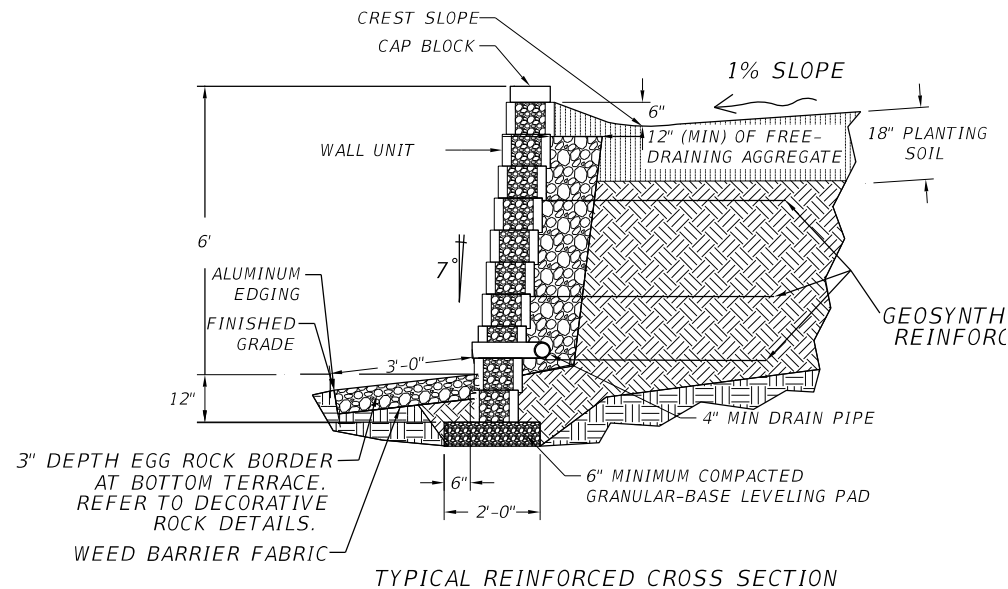
④ DRAIN PIPE THROUGH WALL DETAIL



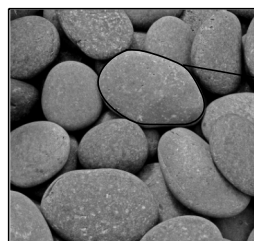
⑤ WALL ELEVATION DETAIL

NOTE: WALL DETAILS ARE CONCEPTUAL IN NATURE AND NOT FOR CONSTRUCTION SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY PROFESSIONAL ENGINEER

REVISIONS				Landscape Architect of Record: Brian R. Shore, RLA No. 6666770 MILLER LEGG 5747 North Andrews Way Fort Lauderdale, Florida 33309 954-436-7000 • www.millerlegg.com Certification of Auth.: LC0000337	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			NOTES AND DETAILS TERRACE WALLS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					NA	POLK	437300-1-52-01		LD-12

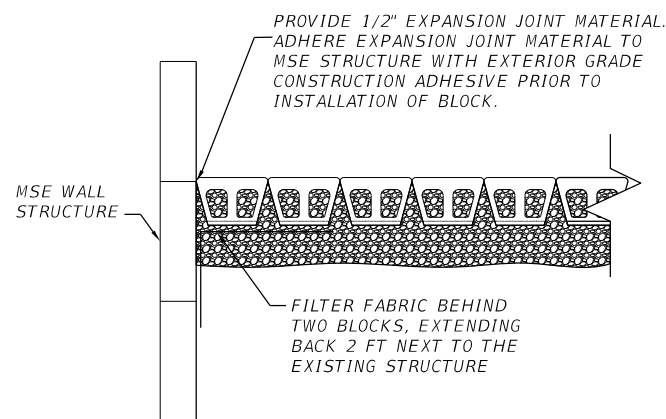


⑥ TYPICAL REINFORCED CROSS SECTION

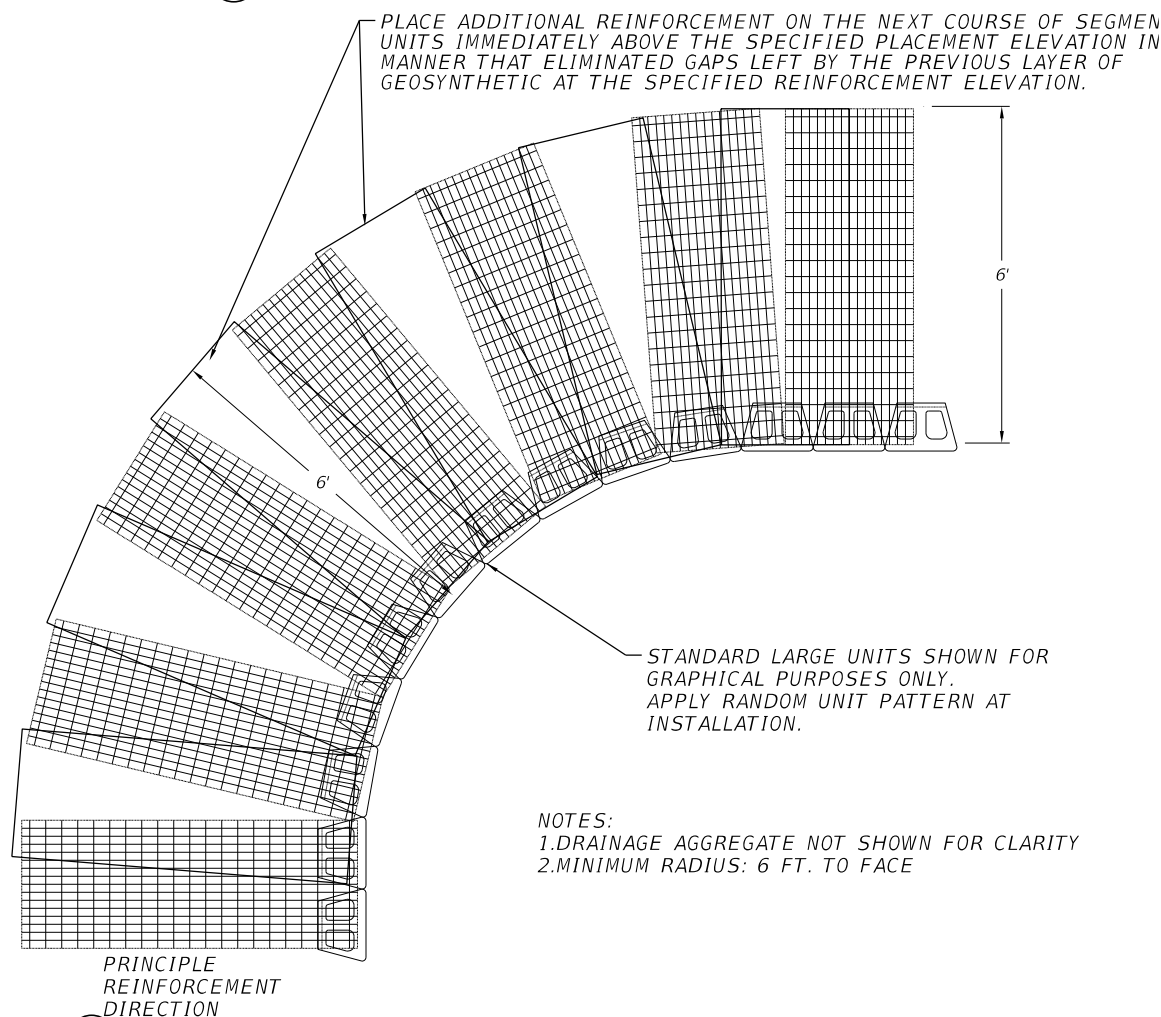


TYPICAL SIZE 3 TO 5 INCHES DIAMETER

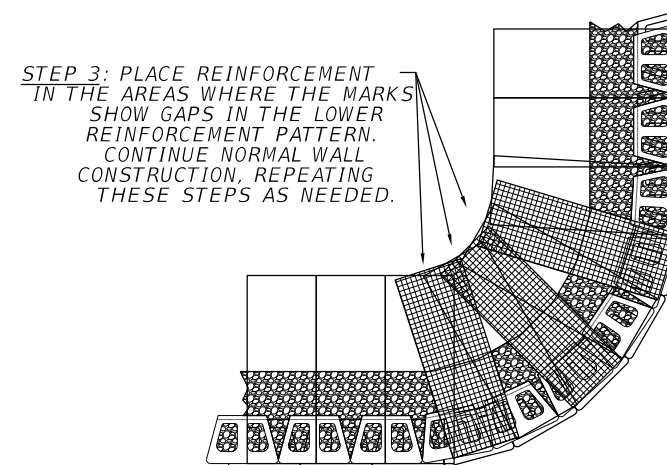
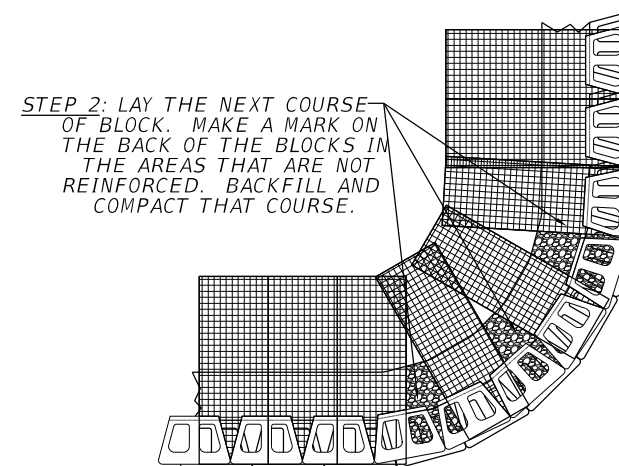
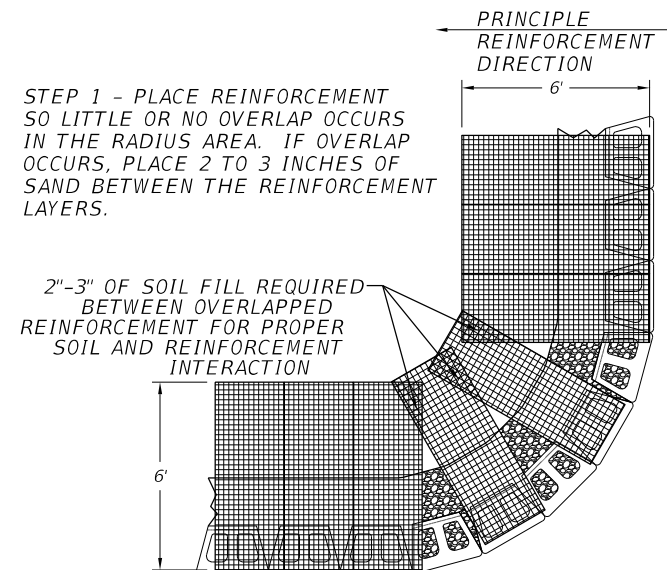
A TYPICAL DECORATIVE EGG ROCK SAMPLE



⑦ TYPICAL EXCAVATION OVERSIZING

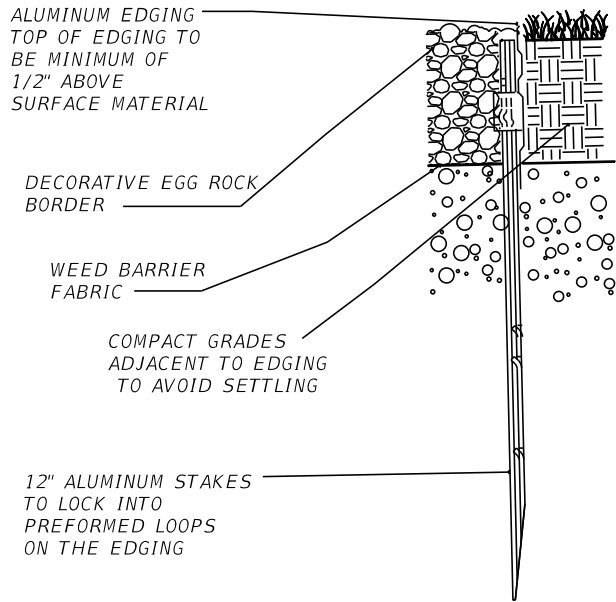


⑨ GEOSYNTHETIC REINFORCEMENT - INSIDE CURVES



NOTE: WALL DETAILS ARE CONCEPTUAL IN NATURE AND NOT FOR CONSTRUCTION SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY PROFESSIONAL ENGINEER

REVISIONS				Landscape Architect of Record: Brian R. Shore, RLA No. 6666770 MILLER LEGG 5747 North Andrews Way Fort Lauderdale, Florida 33309 954-436-7000 • www.millerlegg.com Certification of Auth.: LC0000337	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			NOTES AND DETAILS TERRACES WALLS	SHEET NO. LD-13
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					NA	POLK	437300-1-52-01		

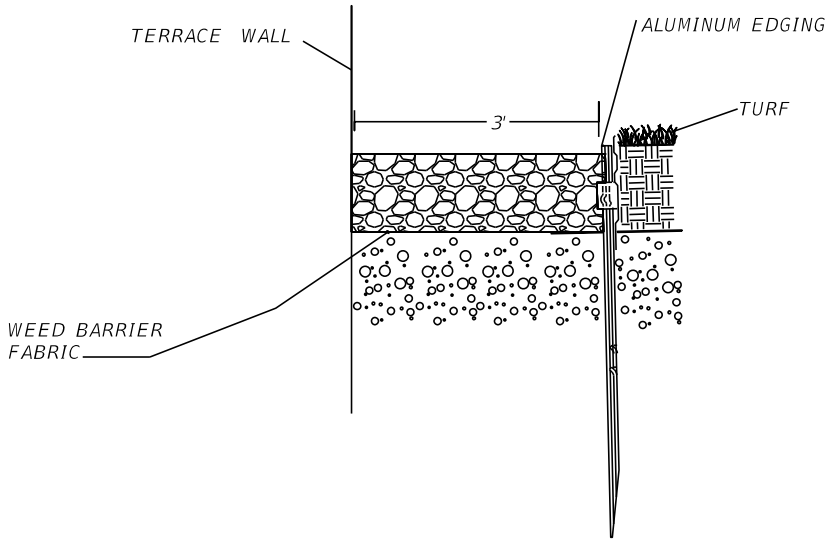


11) LANDSCAPE EDGE DETAIL



TYPICAL SIZE 3 TO 5 INCHES DIAMETER

A) TYPICAL DECORATIVE EGG ROCK SAMPLE



12) EGG ROCK / ALUMINUM EDGING LANDSCAPE BORDER EDGE DETAIL WALL TERRACES

Wall System Unit Component Material and Color Selection:

Wall System Unit color ranges to be solid and blended natural colors ranging from solid beige, tan or charcoal colors, including blended colors of beige/tan/charcoal mix to light/charcoal/dark grey mix.

Decorative Egg Rock Gravel color ranges to be light to dark blended colors.

Weed Barrier Fabric

Wall System Unit Samples:

1. Submit to the landscape architect for approval, and retain on-site upon selection of color and for the balance of the project, a minimum of one wall system unit of each size and color that represents the selected color range of texture and color and samples of decorative egg rock gravel. Selection process may take up to 30 to 90 days for each submittal review.
2. A. Independent to the retaining wall structural system shop drawing submittals, submit a color selection shop drawing submittal to include: Manufacture color charts up to a minimum of 10 color selections representing each wall system unit size and decorative egg rock gravel prior to sample procurement.

B. Upon selection of color submit actual samples, up to 5 color selection from color chart review, of each unit and gravel for physical review and selection of final color.
3. Coordinate sample delivery to one of the following locations determined by the Engineer prior to procurement of samples and delivery to one of the following locations:

A. On-site construction trailer / compound

B. Turnpike Headquarters
Attn: Josh Pederson, PE
Florida's Turnpike. Milepost 263, Building 5315
Ocoee, FL, 34761

C. Landscape Architect - Miller Legg
Attn: Brian Shore, RLA
Miller Legg
5747 N. Andrews Way
Fort Lauderdale, FL, 33309
4. Final selected color unit samples to be marked "APPROVED SAMPLE" and photographed for reference and documentation purposes.

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					NA	POLK	437300-1-52-01			LD-14

SHELTER GENERAL NOTES

SUBMITTALS: SUBMIT MANUFACTURER'S PRODUCT DATA SHEETS, SHOP DRAWINGS AND SAMPLES FOR REVIEW. SHELTER CANOPY TO BE SIGNED AND SEALED BY PROFESSIONAL ENGINEER

SEAT STYLE: METAL GRID, BACKLESS, 3 SEATS ADA COMPLIANT

MOUNTING: BELOW GRADE MOUNTING

RECYCLED CONTENT: MINIMUM 90% (58% POST CONSUMER/32% PRE CONSUMER)

FINISHES: STAINLESS STEEL MATTE FINISH

COLOR: SILVER TO MATCH BUILDING AWNINGS

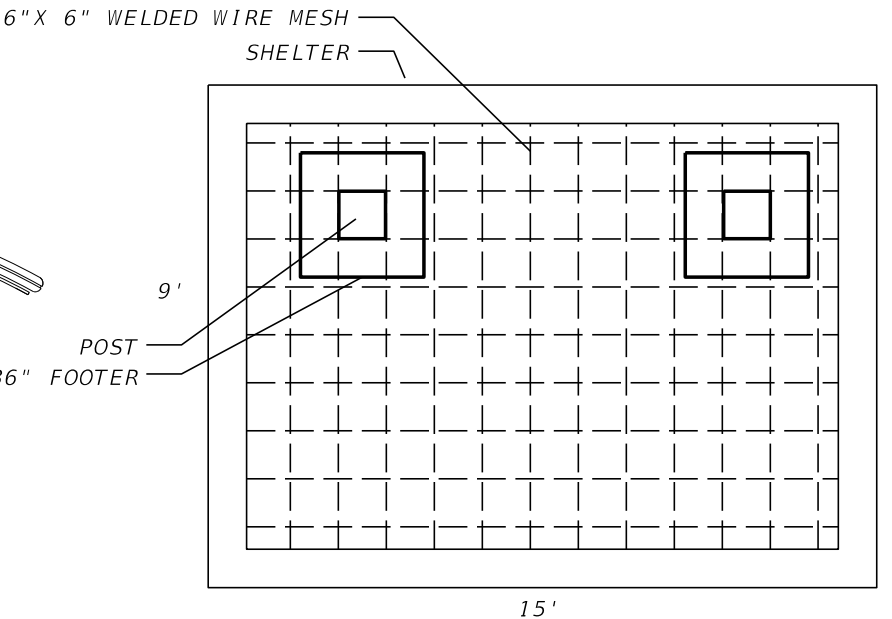
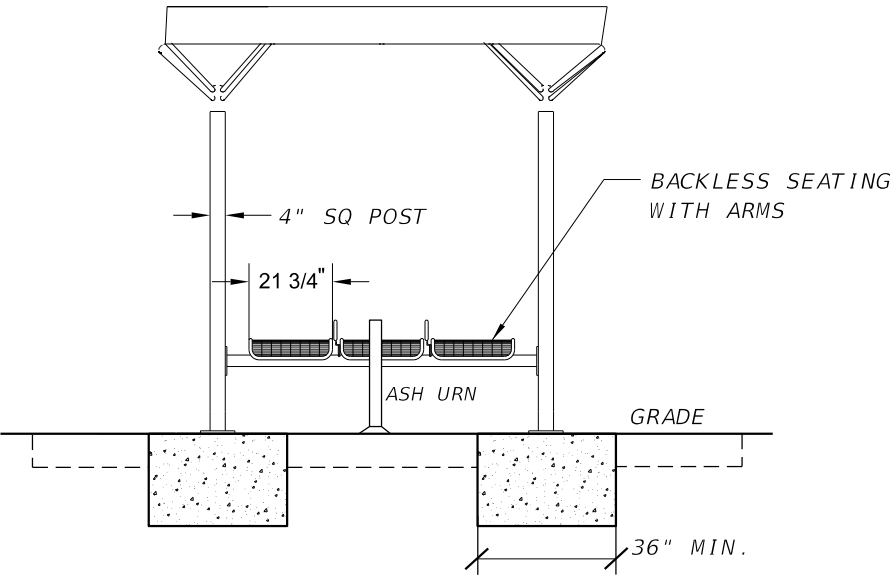
CANOPY COLOR: SILVER TO MATCH BUILDING AWNINGS

BENCH COLOR: SILVER TO MATCH BUILDING AWNINGS

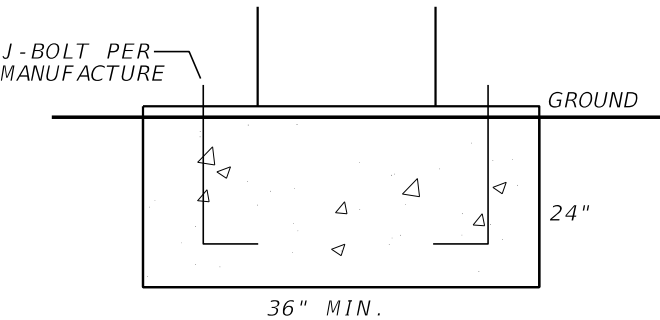
CANOPY FINISH: SILVER TO MATCH BUILDING AWNINGS

EXPANSION JOINT SEALANT: LIGHT GREY
SUBMIT PRODUCT CUT SHEET .

1D BUS SHELTER W BACKLESS SEATING WITH ARMS

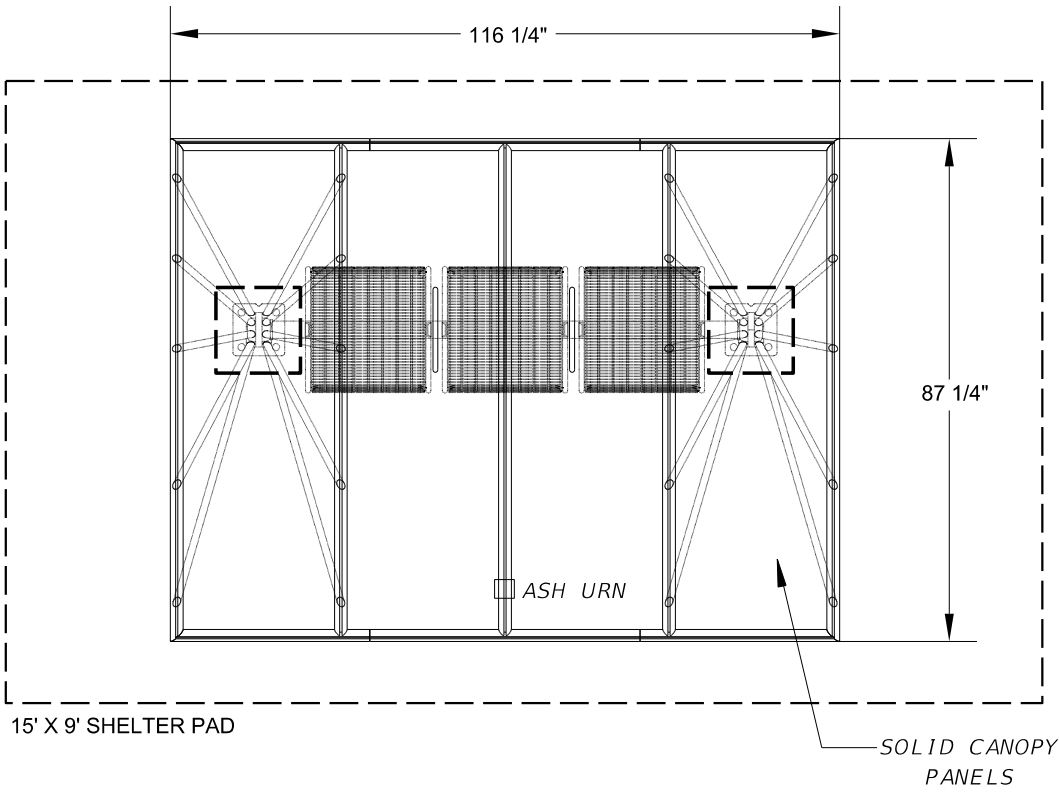


1B FOUNDATION DETAIL (SHELTER PAD)

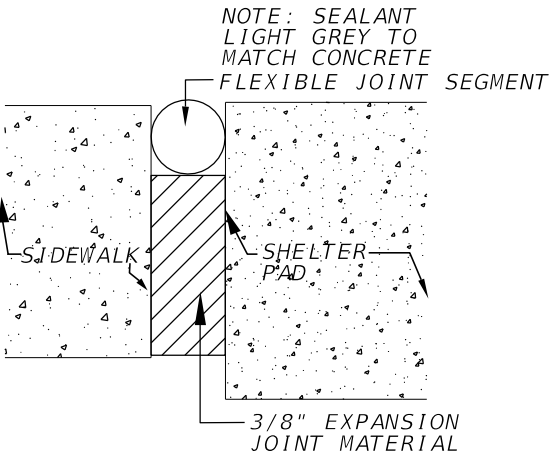
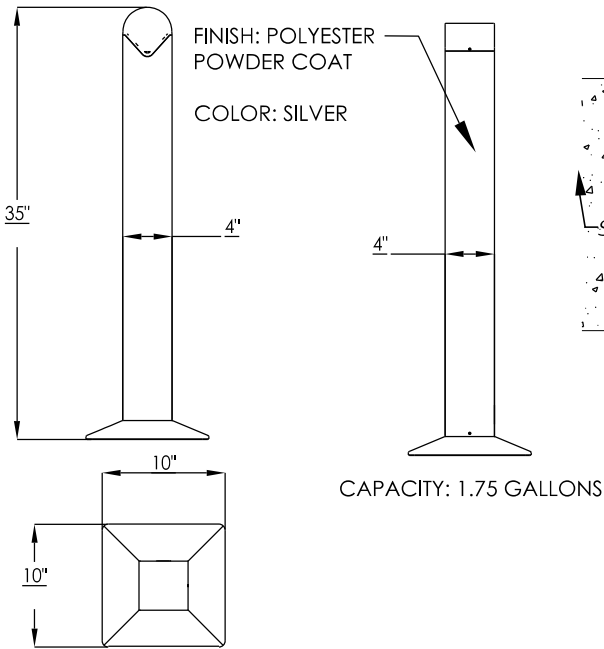


1A SURFACE MOUNT DETAIL

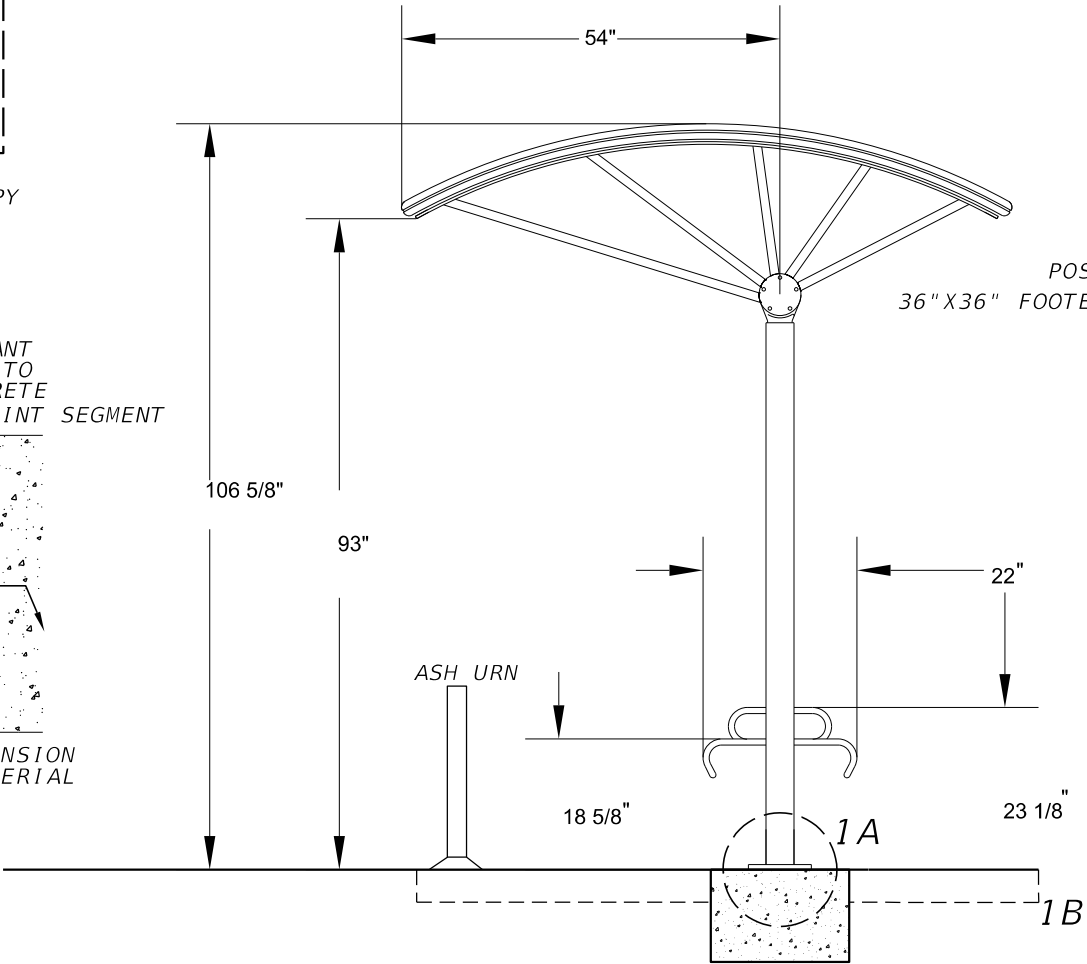
1 BUS SHELTER W BACKLESS SEATING WITH ARMS



2 ASH URN (FREESTANDING)

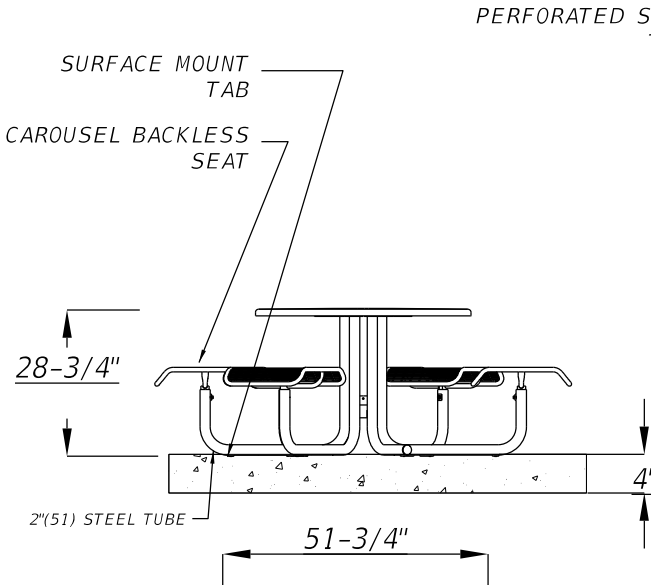
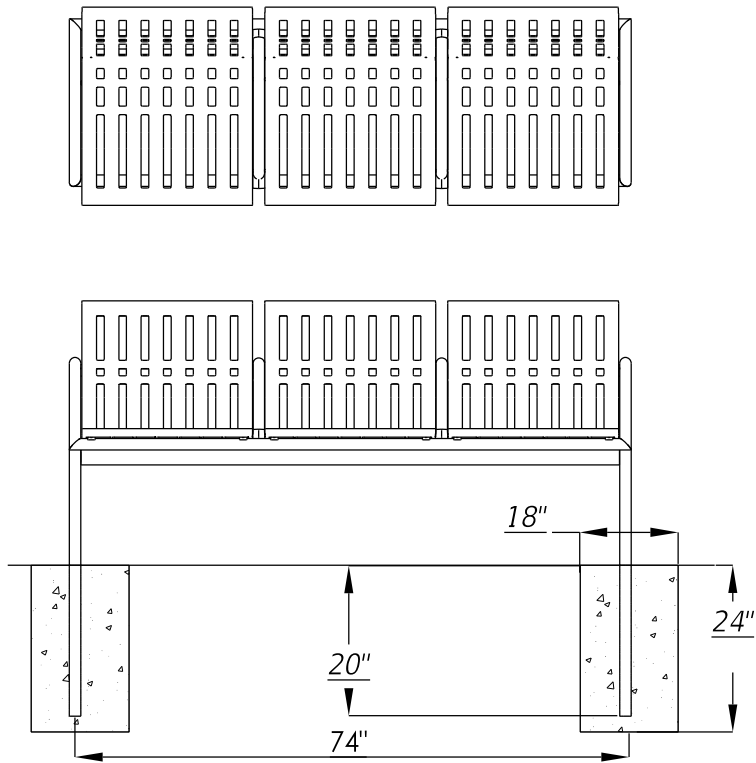


1C BUS SHELTER W BACKLESS SEATING WITH ARMS



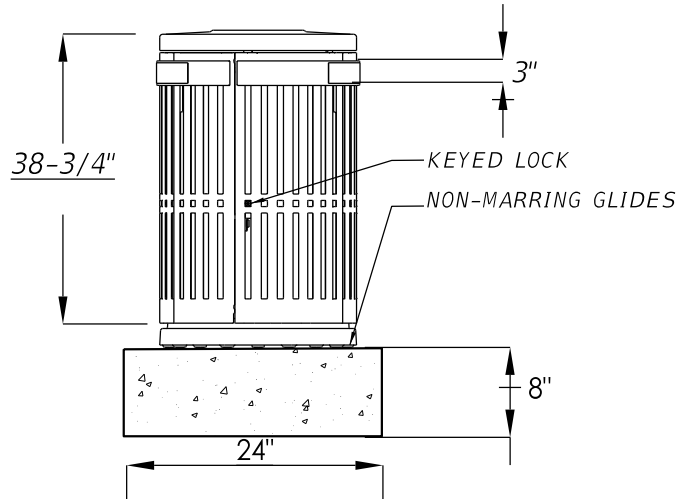
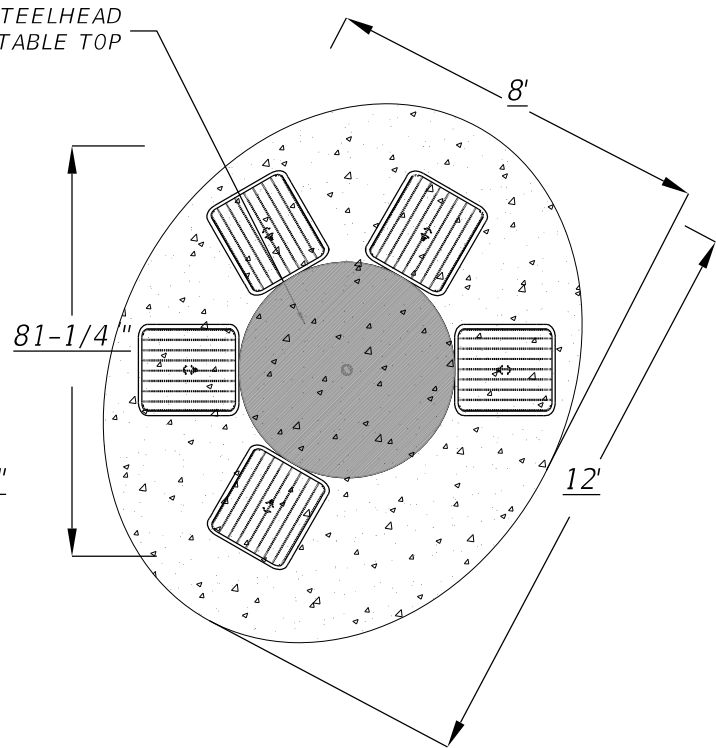
REVISIONS				Landscape Architect of Record: Brian R. Shore, RLA No. 6666770 MILLER LEGG 5747 North Andrews Way Fort Lauderdale, Florida 33309 954-436-7000 • www.millerlegg.com Certification of Auth.: LC0000337	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			HARDSCAPE DETAILS OPERATION BUILDING	SHEET NO. LD-15
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					NA	POLK	437300-1-52-01		

3 Seat Unit, with Intermediate Arm, Embedded
CONTRACTOR PROVIDE MOUNTING HARDWARE.
SUBMIT SHOP DRAWINGS
COLOR: SILVER
MATERIAL: CAST ALUMINUM



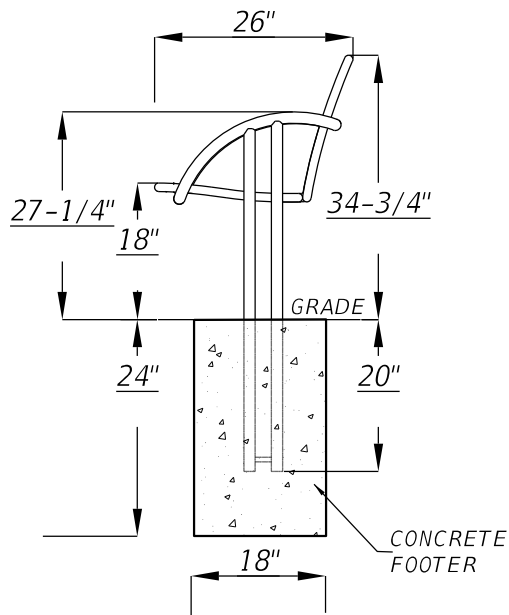
④ **PICNIC TABLE**
REFER TO OPERATIONS OFFICE BUILDING
AND SITE FOR PAY ITEMS

CONTRACTOR PROVIDE MOUNTING HARDWARE.
SUBMIT SHOP DRAWINGS
COLOR: SILVER

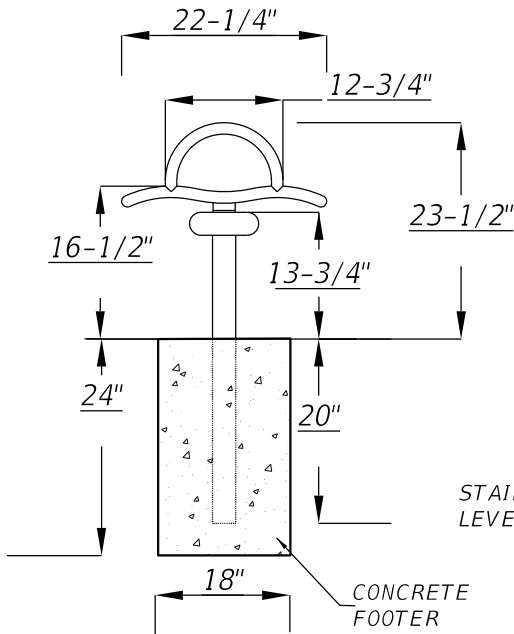


Top Opening Litter Receptacle,
With Lock and Logo Band

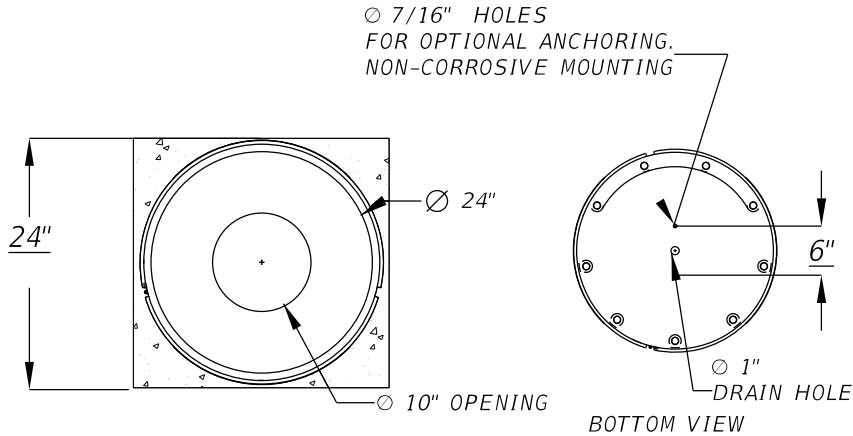
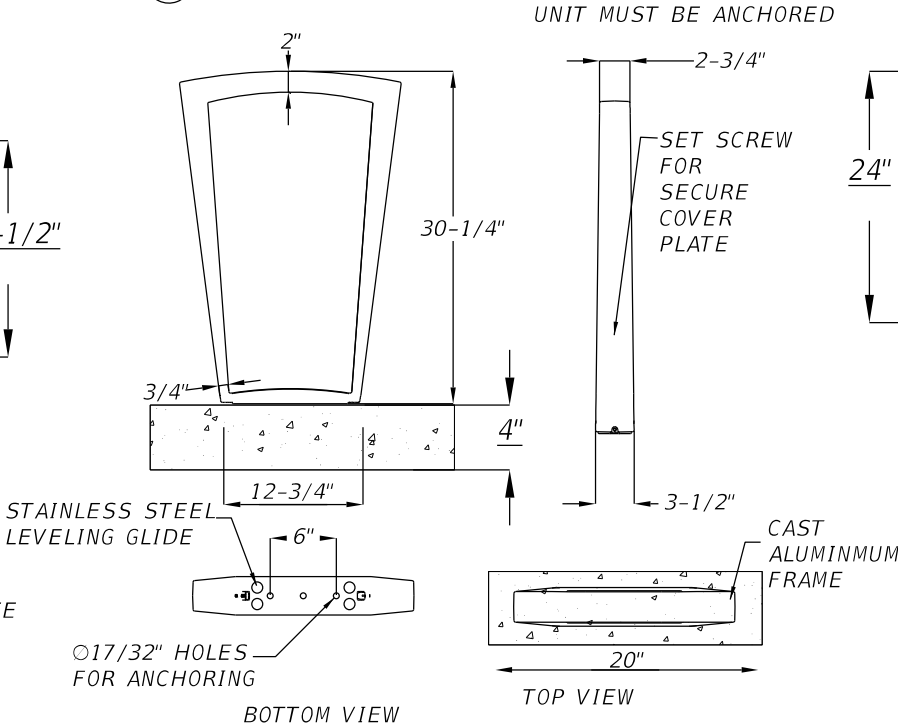
③ **BENCH WITH BACK**



⑤ **BENCH WITHOUT BACK/ARMS**



⑥ **BIKE RACK**

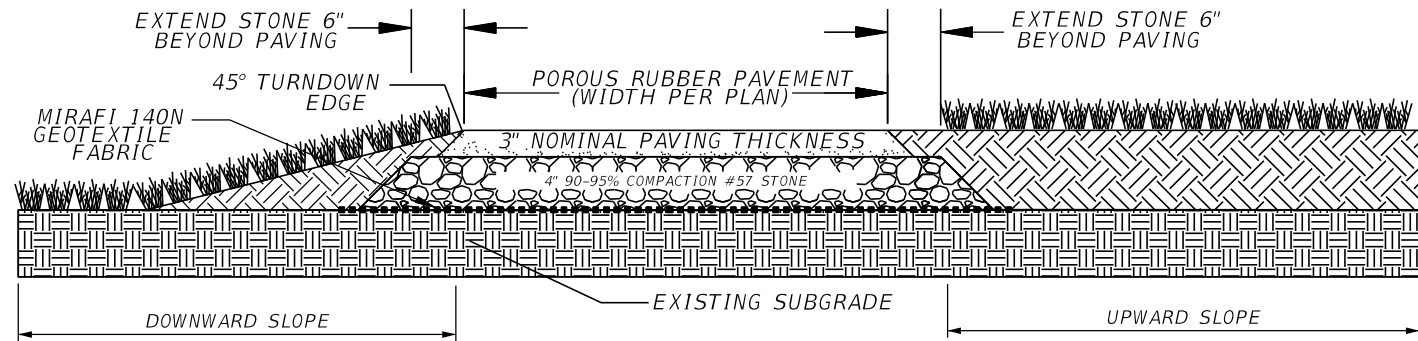


CONTRACTOR PROVIDE MOUNTING HARDWARE.
SUBMIT SHOP DRAWINGS
COLOR: SILVER

⑦ **TRASH RECEPTACLE**

REVISIONS				Landscape Architect of Record: Brian R. Shore, RLA No. 6666770 MILLER LEGG 5747 North Andrews Way Fort Lauderdale, Florida 33309 954-436-7000 • www.millerlegg.com Certification of Auth.: LC0000337	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			HARDSCAPE DETAILS OPERATION BUILDING		SHEET NO. LD-16
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					NA	POLK	437300-1-52-01			

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8 RUBBER PAVEMENT (SECTION)

RUBBER PAVEMENT NOTES:

SUBMIT SHOP DRAWINGS FOR INSTALLATION PROCEDURES, MANUFACTURE PRODUCTS, BINDER, SEAL ANTS , AND SAMPLES OF 100% RECYCLED RUBBER MATERIAL.

COLOR: MIX OF BEIGE AND DARK BROWN

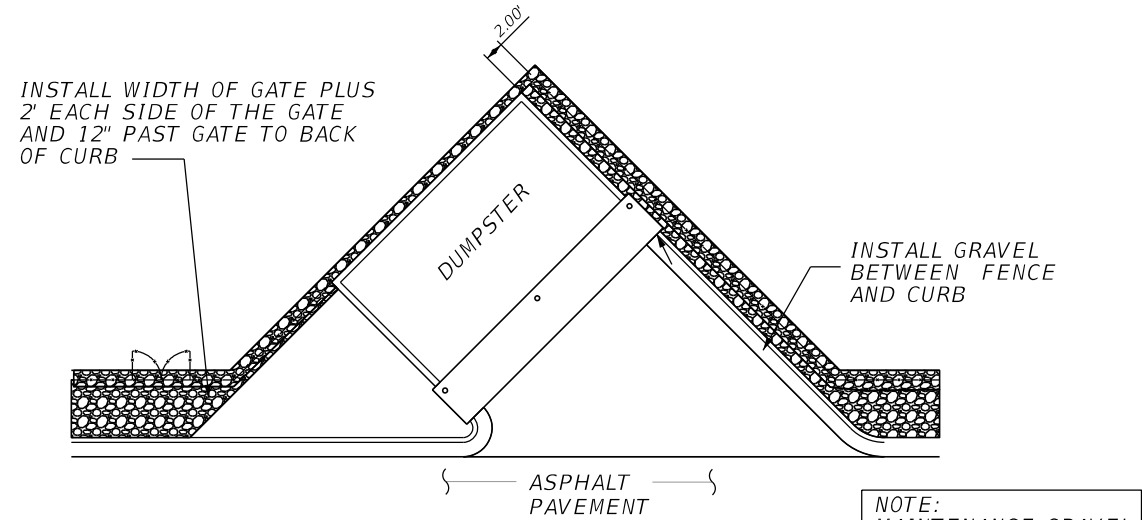
SIZE: CRUMBLED AND SHREDDED

THICKNESS: 3" MIN.

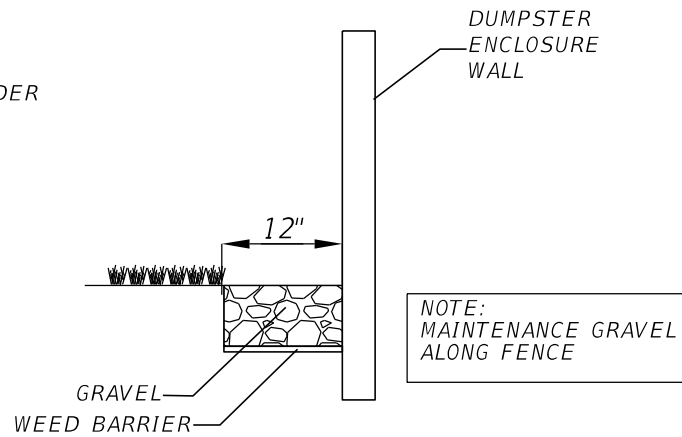
BINDER: RUBBER AND POLYURETHANE BINDER

WEAR LAYER: RUBBER IS THOROUGHLY MIXED WITH POLYESTER CLEAR ENVIROBINDER (WINTER BLEND FOR LOW TEMPERATURE AND DAMP CONDITIONS) AND TROWELED EVENLY OVER THE POROUS BASE LAYER.

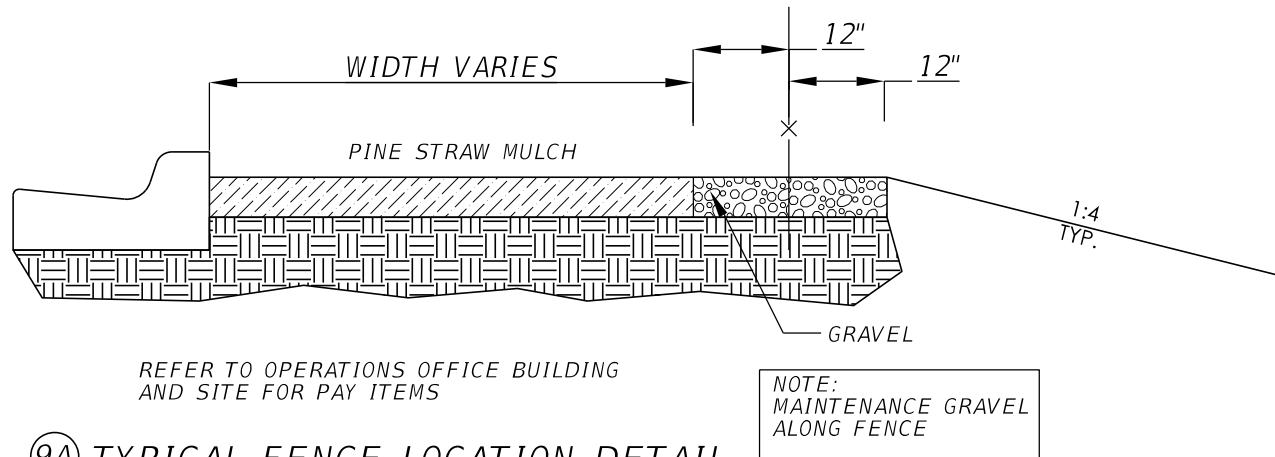
REFER TO OPERATIONS OFFICE BUILDING AND SITE FOR PAY ITEMS



9C DUMPSTER ENCLOSURE AREA DETAIL

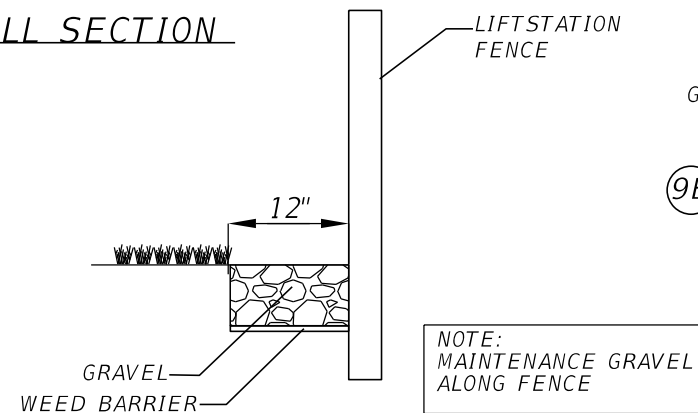


9B TYPICAL DUMPSTER ENCLOSURE WALL SECTION

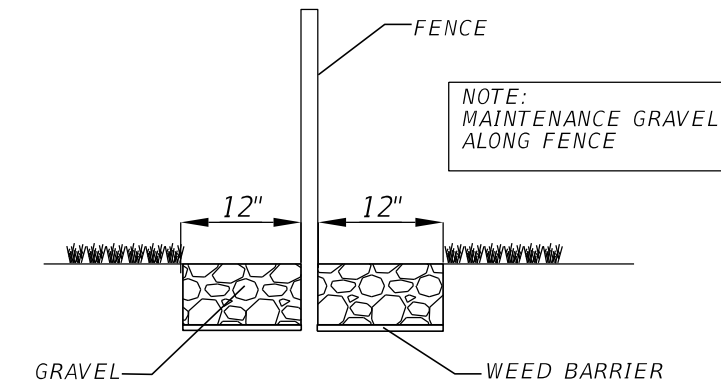


9A TYPICAL FENCE LOCATION DETAIL

GRAVEL:
WASHED 57 STONE



9D TYPICAL LIFTSTATION FENCE SECTION



9E TYPICAL FENCE SECTION

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					NA	POLK	437300-1-52-01		LD-17

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PAVER NOTES

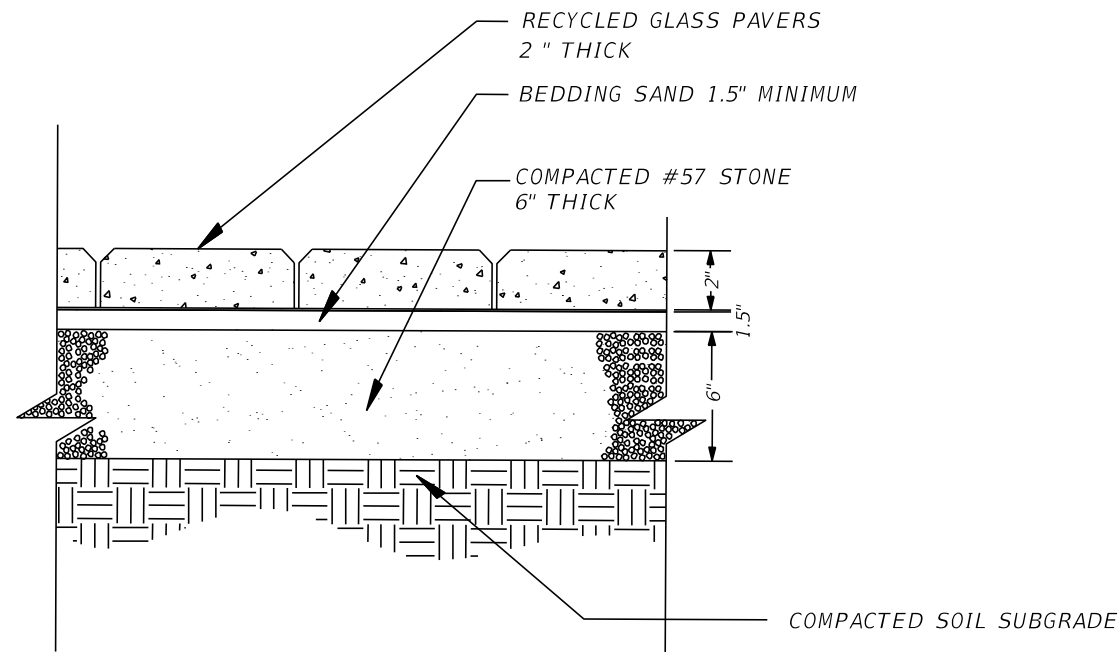
CONCRETE PAVERS: RECYCLED-GLASS UP TO 100% RECYCLED POST-CONSUMER CONTENT SUBMITT SHOP DRAWINGS AND 4 PHYSICAL PAVER SAMPLES

COLOR: STANDARD BLUE EXPAND 15 % TO 25 % BLUE GLASS MIX/ WHITE AGGREGATE MIX

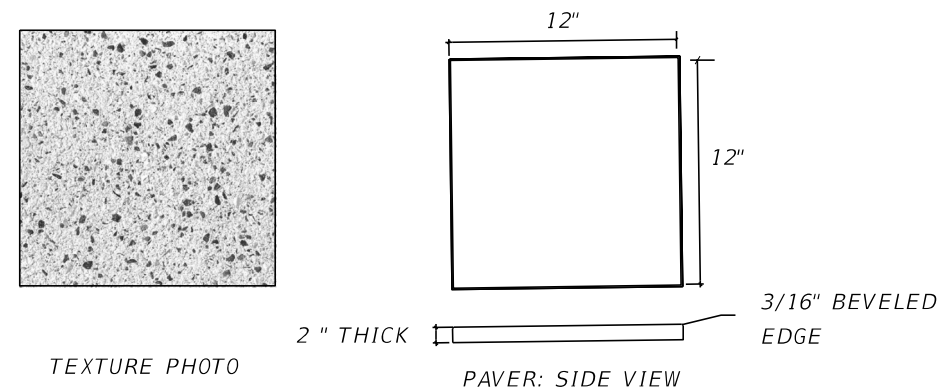
SIZE: 12"x12", 12"x12"

THICKNESS: 2" THICK.

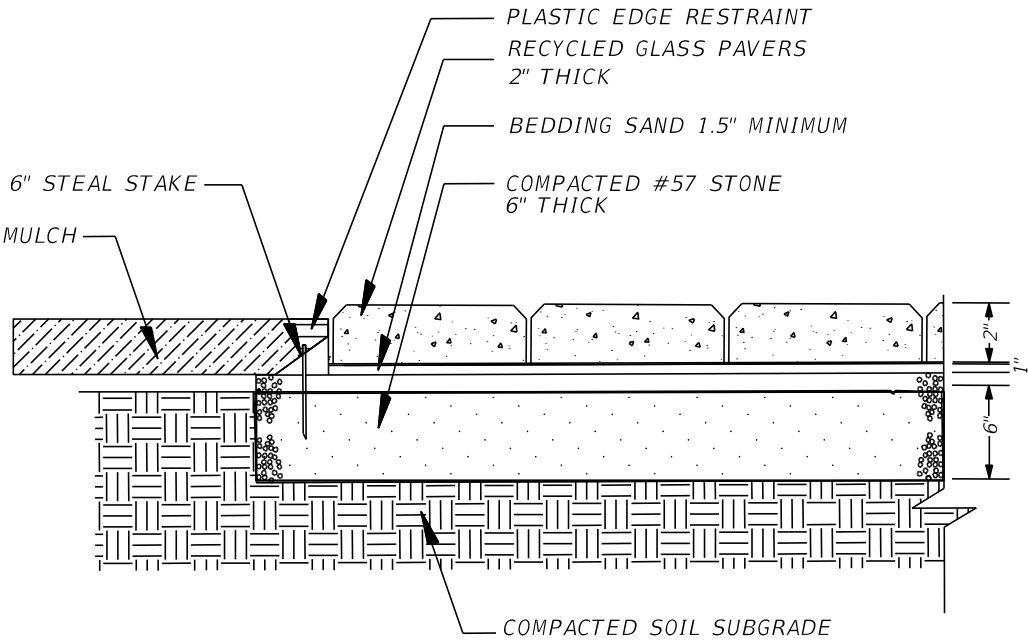
SURFACE FINISH: SHOT-BLASTED OR HONED.
EDGE FINISH: 3/16" BEVEL ON ALL FOUR (4) SIDES OR STRAIGHT EDGE.
WEIGHT: 11 TO 22 LBS PER SQUARE FOOT DEPENDING ON PAVER SIZE & THICKNESS.



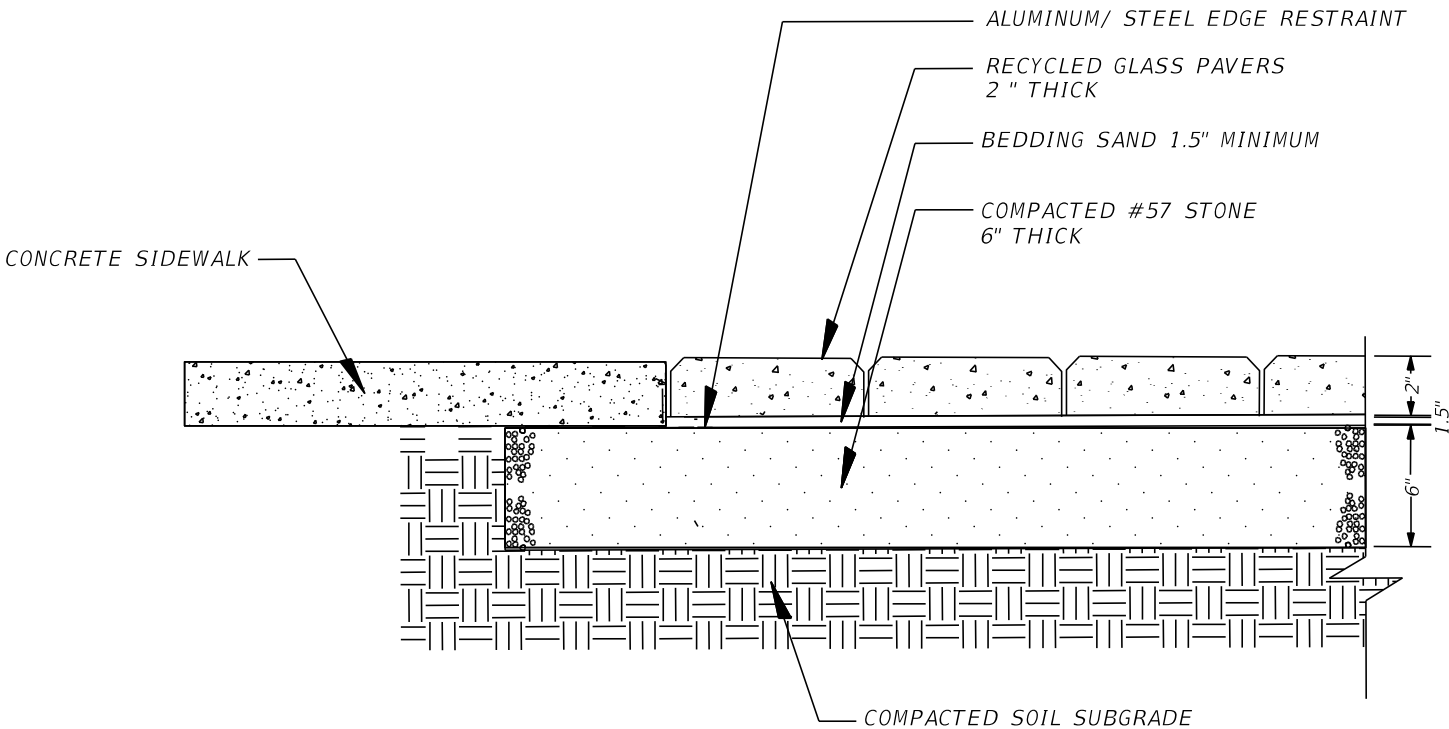
10A PAVER DETAIL (SECTION) PAVER: TOP VIEW



11 PAVER DETAIL (PLAN DETAIL)



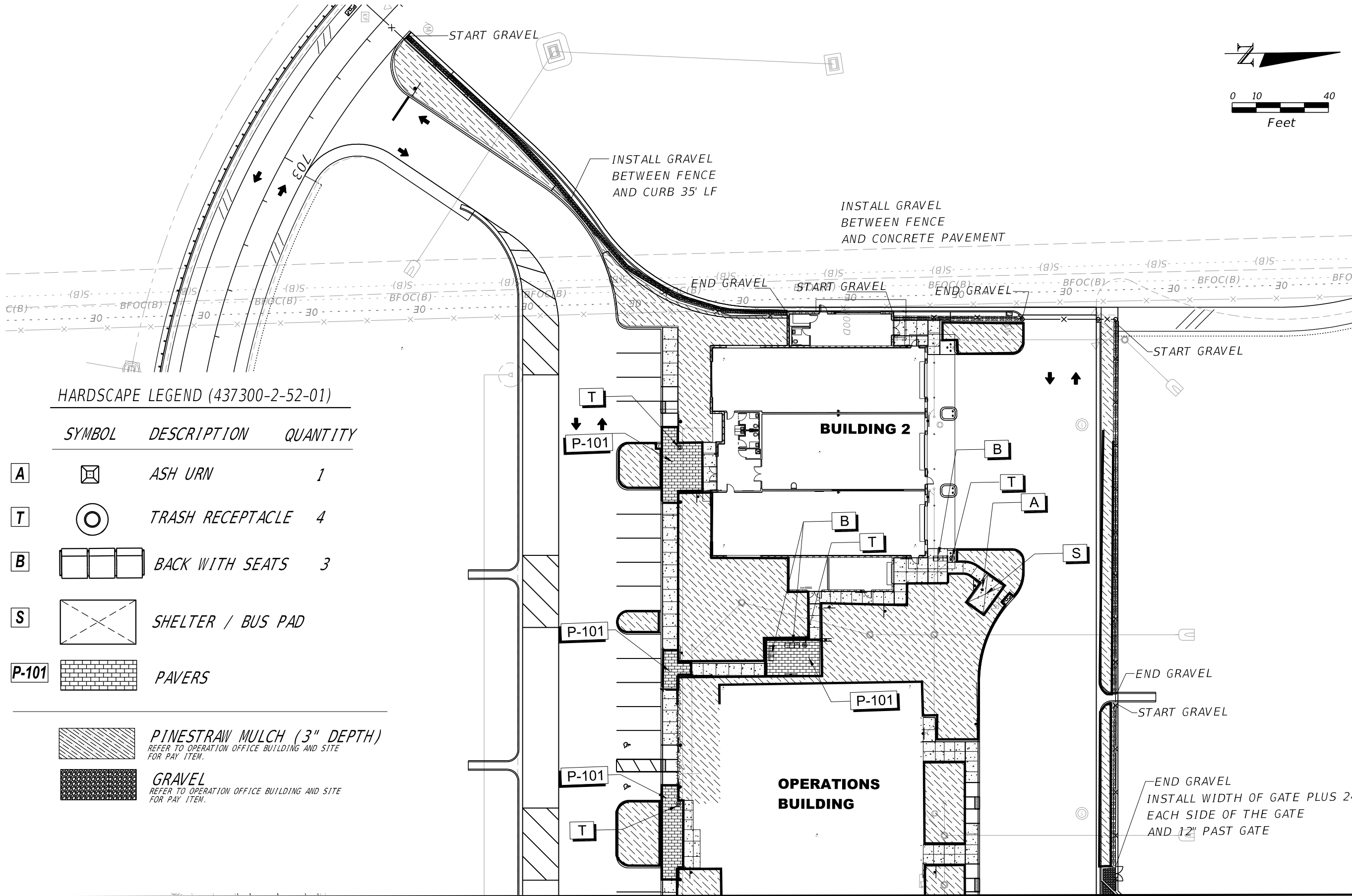
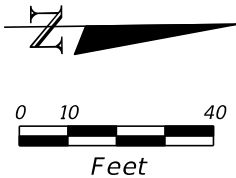
10B PAVER DETAIL (SECTION GRAVEL)



10C PAVER DETAIL (SECTION CONCRETE)

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					NA	POLK	437300-1-52-01			

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HARDSCAPE LEGEND (437300-2-52-01)

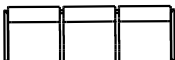
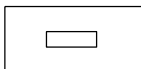
SYMBOL	DESCRIPTION	QUANTITY
A	ASH URN	1
T	TRASH RECEPTACLE	4
B	BACK WITH SEATS	3
S	SHELTER / BUS PAD	
P-101	PAVERS	
	PINESTRAW MULCH (3" DEPTH) REFER TO OPERATION OFFICE BUILDING AND SITE FOR PAY ITEM.	
	GRAVEL REFER TO OPERATION OFFICE BUILDING AND SITE FOR PAY ITEM.	

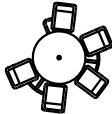
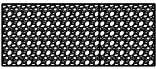
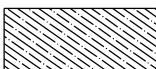
MATCH LINE STA. 706+17.48

REVISIONS				Landscape Architect of Record: Brian R. Shore, RLA No. 6666770 MILLER LEGG 5747 North Andrews Way Fort Lauderdale, Florida 33309 954-436-7000 • www.millerlegg.com Certification of Auth.: LC0000337	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			HARDSCAPE PLAN OPERATIONS BUILDING	SHEET NO. LD-19
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					NA	POLK	437300-1-52-01		

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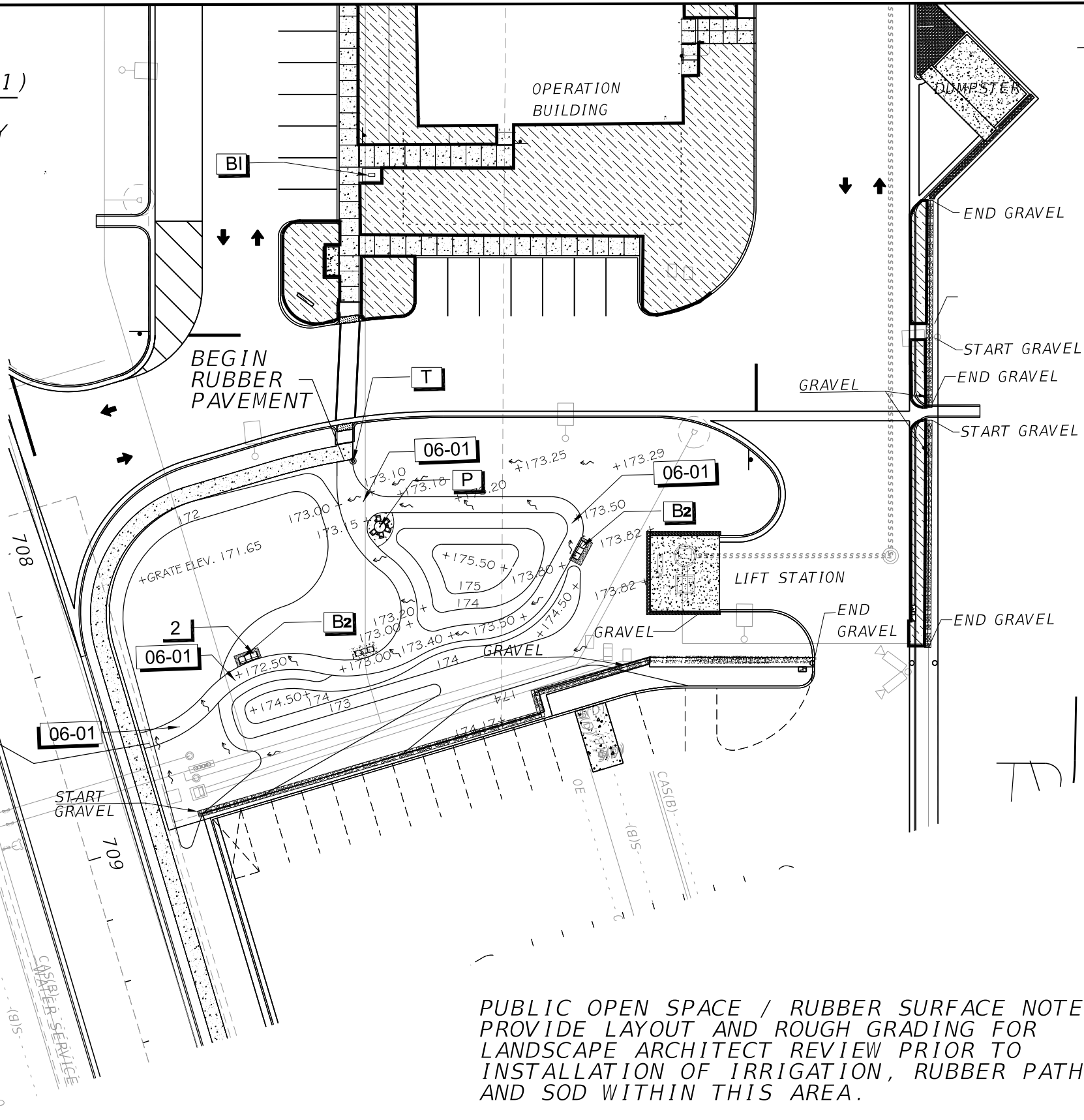
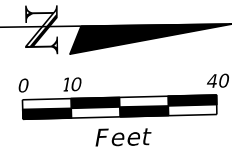
HARDSCAPE LEGEND (437300-2-52-01)

B2		BACK WITH OUT BACK/ ARMS	2
T		TRASH RECEPTACLE	1
BI		BIKE RACK	1

P  PICNIC TABLE REFER TO OPERATION OFFICE BUILDING AND SITE FOR PAY ITEM. 1
06-01  RUBBER PAVEMENT REFER TO OPERATION OFFICE BUILDING AND SITE FOR PAY ITEM.
 GRAVEL REFER TO OPERATION OFFICE BUILDING AND SITE FOR PAY ITEM.
 PINESTRAW MULCH (3" DEPTH) REFER TO OPERATION OFFICE BUILDING AND SITE FOR PAY ITEM.

END RUBBER PAVEMENT

LIMITS OF OPERATIONS BUILDING REFER TO ROADWAY PLAN



PUBLIC OPEN SPACE / RUBBER SURFACE NOTES:
PROVIDE LAYOUT AND ROUGH GRADING FOR
LANDSCAPE ARCHITECT REVIEW PRIOR TO
INSTALLATION OF IRRIGATION, RUBBER PATHWAY
AND SOD WITHIN THIS AREA.

REVISIONS				Landscape Architect of Record: Brian R. Shore, RLA No. 6666770 MILLER LEGG 5747 North Andrews Way Fort Lauderdale, Florida 33309 954-436-7000 • www.millerlegg.com Certification of Auth.: LC0000337	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			HARDSCAPE PLAN OPERATIONS BUILDING		SHEET NO. LD-20
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					NA	POLK	437300-1-52-01			

LEGEND

PERFORMANCE TURF (437300-2-52-01)

SYMBOL

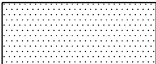
DESCRIPTION



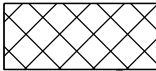
LEED AREA
BOUNDARY



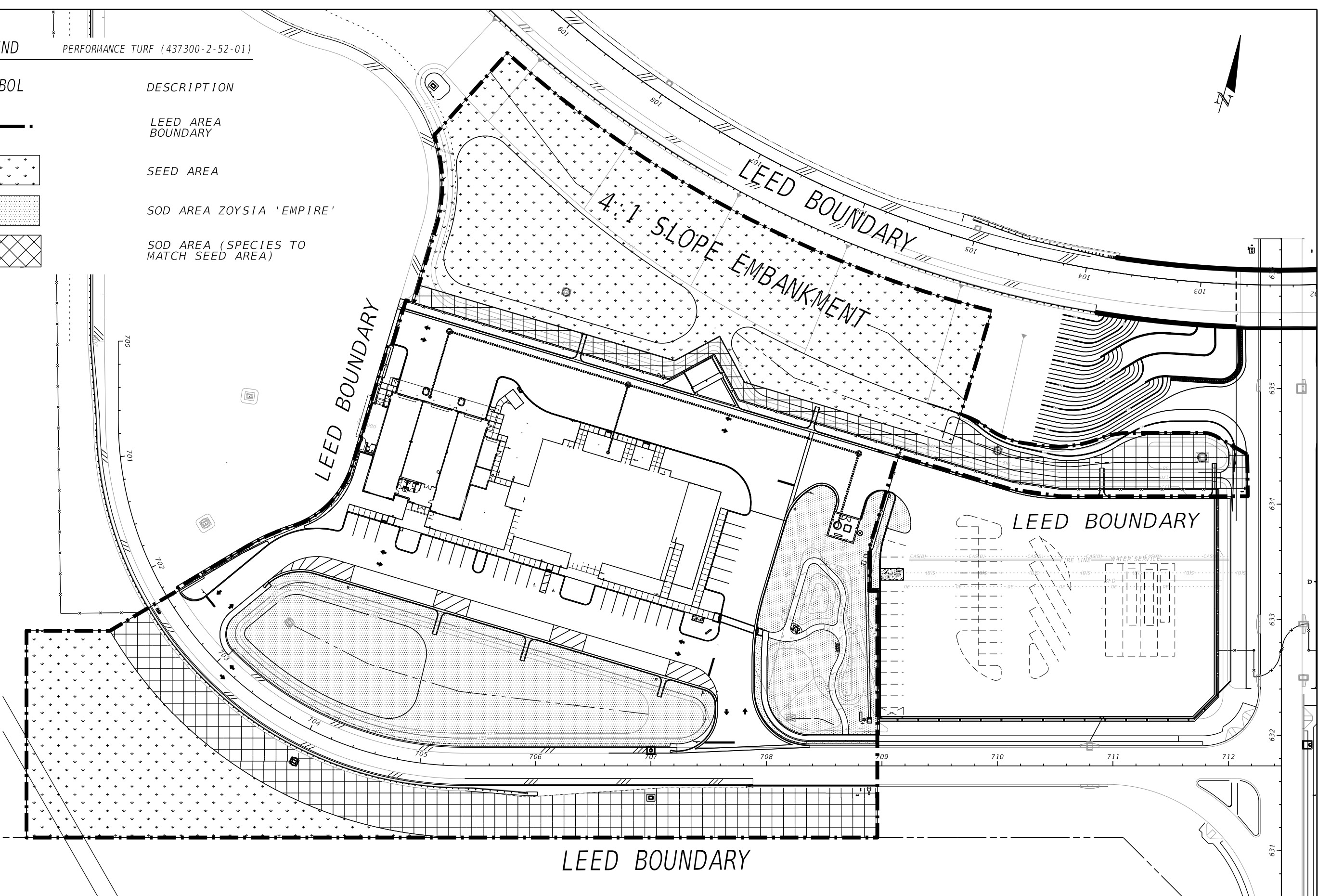
SEED AREA



SOD AREA ZOYSIA 'EMPIRE'



SOD AREA (SPECIES TO
MATCH SEED AREA)



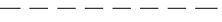
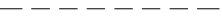
REVISIONS				Landscape Architect of Record: Brian R. Shore, RLA No. 6666770 MILLER LEGG 5747 North Andrews Way Fort Lauderdale, Florida 33309 954-436-7000 • www.millerlegg.com Certification of Auth.: LC0000337	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PERFORMANCE TURF OPERATIONS BUILDING		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION							
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					NA	POLK	437300-1-52-01			LD-21

TERRACE WALL QUANTITIES

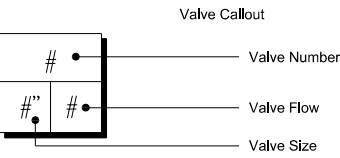
FM (437300-1-52-01)

TERRACE WALL VALVE SCHEDULE

FM (437300-1-52-01)

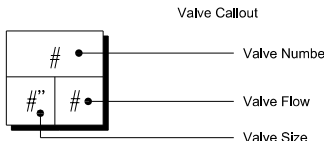
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter PGP-ADJ-B Turf Rotor, 4.0" Pop-Up. Adjustable and Full Circle. Standard Angle Blue Nozzle.	72
	Future Hunter ICZ-151-40	6
	Hunter ICV-G 1", 1-1/2", 2", and 3" Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	4
	Future Valves Hunter ICV-G	4
	Febco 860 2" Reduced Pressure Backflow Preventer	1
	Hunter PCC-1200 Light Commercial & Residential Controller, 12-Station fixed controller, 120 VAC, Outdoor model	1
	Hunter CLIK-DELAY When installed with a Mini-Clik rain sensor, the Hunter Clik-Delay is designed to delay controller activation for 48 hours after the rain has stopped.	1
	Point of Connection 3"	1
	Irrigation Lateral Line: PVC Class 160 SDR 26	2,500 l.f.
	Irrigation Mainline: PVC Class 200 SDR 21	800 l.f.
	Pipe Sleeve: 6" SCH40 PVC	50 l.f.
	Pipe Sleeve: 3" SCH40 PVC	200 l.f.
	Pipe Sleeve: 2" SCH40 PVC	50 l.f.
	2" CONDUIT	200 l.f.

NUMBER	MODEL	SIZE	GPM
T1	Hunter ICV-G	2"	87.00
T2	Hunter ICZ-151-40	1-1/2"	0.00
T3	Hunter ICV-G	1"	0.00
T4	Hunter ICV-G	1-1/2"	30.00
T5	Hunter ICZ-151-40	1-1/2"	0.00
T6	Hunter ICZ-151-40	1-1/2"	0.00
T7	Hunter ICV-G	1"	0.00
T8	Hunter ICZ-151-40	1-1/2"	0.00
T9	Hunter ICV-G	1"	0.00
T10	Hunter ICV-G	2"	21.0
T11	Hunter ICZ-151-40	1-1/2"	0.00
T12	Hunter ICZ-151-40	1-1/2"	0.00
T13	Hunter ICV-G	1"	0.00
T14	Hunter ICV-G Common Wire	1-1/2"	30.00



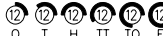
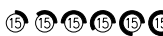
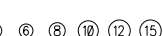
REVISIONS				Landscape Architect of Record: Brian Shore , RLA No. 6666770 MILLER LEGG 5747 North Andrews Way Fort Lauderdale, Florida 33309 954-436-7000 • www.millerlegg.com Certification of Auth.: LC0000337	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION QUANTITIES TERRACE WALLS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					NA	POLK	437300-1-52-01		LD-22

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.01, F.A.C.

ROADWAY QUANTITIES				FM (437300-1-52-01)				ROADWAY VALVE SCHEDULE				FM (437300-1-52-01)			
SYMBOL		MANUFACTURER/MODEL/DESCRIPTION		QTY	PSI			NUMBER		MODEL	SIZE	GPM			
    		Hunter PROS-06-PRS40 5' strip spray Shrub Spray, 40psi regulated 6" pop-up		349	40			R1	Hunter ICV-G	1-1/2"	61.57				
      		Hunter PROS-06-PRS40 ADJ Shrub Spray, 40psi regulated 6" pop-up		1	40			R2	Hunter ICV-G	1"	0.00				
		Hunter PGP-ADJ-B Turf Rotor, 4.0" Pop-Up. Adjustable and Full Circle. Standard Angle Blue Nozzle.		556	45			R3	Hunter ICV-G	1-1/2"	65.5				
		Hunter ICV-G 1", 1-1/2", 2", and 3" Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.		20	1.50			R4	Hunter ICV-G	1"	0.00				
		Future Valves Hunter ICV-G		11	31'			R5	Hunter ICV-G	2"	75.00				
		Febco 860 2" Reduced Pressure Backflow Preventer		1				R6	Hunter ICV-G	2"	81.00				
		Hunter IC-3000-M Modular Controllor, 30 stations, Outdoor Model, Metal Cabinet. Commercial Use. With four ICM-600 modules included.		1				R7	Hunter ICV-G	1-1/2"	57.00				
		Hunter CLIK-DELAY When installed with a Mini-Clik rain sensor, the Hunter Clik-Delay is designed to delay controller activation for 48 hours after the rain has stopped.		1				R8	Hunter ICV-G	1"	0.00				
		Point of Connection 3"		1				R9	Hunter ICV-G	1-1/2"	52.50				
		Irrigation Lateral Line: PVC Class 160 SDR 26		22,096 I.f.				R10	Hunter ICV-G	2"	129.00				
		Irrigation Mainline: PVC Class 200 SDR 21		3,500 I.f.				R11	Hunter ICV-G	1"	0.00				
		Pipe Sleeve: 6" SCH40 PVC		500 I.f.				R12	Hunter ICV-G	2"	106.50				
		Pipe Sleeve: 3" SCH40 PVC		120 I.f.				R13	Hunter ICV-G	1"	0.00				
		Pipe Sleeve: 2" SCH40 PVC		500 I.f.				R14	Hunter ICV-G	1-1/2"	52.50				
		2" CONDUIT		100 I.f.				R15	Hunter ICV-G	1"	0.00				
								R16	Hunter ICV-G	2"	72.00				
								R17	Hunter ICV-G	2"	93.00				
								R18	Hunter ICV-G	1"	0.00				
								R19	Hunter ICV-G	1"	0.00				
								R20	Hunter ICV-G	2"	96.00				
								R21	Hunter ICV-G	2"	79.50				
								R22	Hunter ICV-G	2"	128.0				
								R23	Hunter ICV-G	1"	0.00				
								R24	Hunter ICV-G	1-1/2"	0.00				
								R25	Hunter ICV-G	2"	63.00				
								R26	Hunter ICV-G	2"	60.00				
								R27	Hunter ICV-G	1"	38.00				
								R28	Hunter ICV-G	2"	61.50				
								R29	Hunter ICV-G	1-1/2"	51.00				
								R30	Hunter ICV-G	1"	0.00				
								R31	Hunter ICV-G	2"	58.50				
								Common Wire							
															

OPERATIONS BUILDING QUANTITIES

FM 437300-2-52-02

<u>SYMBOL</u>	<u>MANUFACTURER/MODEL/DESCRIPTION</u>	<u>QTY</u>	<u>PSI</u>
	Hunter PRO5-06-PRS40 5` strip spray Shrub Spray, 40psi regulated 6" pop-up	11	40
	Hunter PRO5-06-PRS40 12` radius Shrub Spray, 40psi regulated 6" pop-up	1	40
	Hunter PRO5-06-PRS40 15` radius Shrub Spray, 40psi regulated 6" pop-up	13	40
	Hunter PRO5-06-PRS40 ADJ Shrub Spray, 40psi regulated 6" pop-up	82	40
	Hunter PRO5-06-PRS40 5` strip spray Shrub Spray, 40psi regulated 6" pop-up	1	30

<u>SYMBOL</u>	<u>MANUFACTURER/MODEL/DESCRIPTION</u>	<u>QTY</u>	<u>PSI</u>	<u>GPM</u>	<u>RADIUS</u>
	Hunter PGP-ADJ-B Turf Rotor, 4.0" Pop-Up. Adjustable and Full Circle. Standard Angle Blue Nozzle.	73	45	1.50	31'

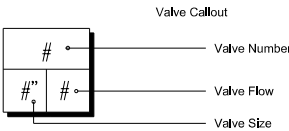
<u>SYMBOL</u>	<u>MANUFACTURER/MODEL/DESCRIPTION</u>	<u>QTY</u>
	Future Hunter ICZ-151-40	1
	Future Hunter ICZ-101-25	2

<u>SYMBOL</u>	<u>MANUFACTURER/MODEL/DESCRIPTION</u>	<u>QTY</u>
	Hunter ICV-G 1", 1-1/2", 2", and 3" Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	4
	Future Valve Hunter ICV-G	9
	Febco 860 2" Reduced Pressure Backflow Preventer	1
	Hunter PCC-1200 Light Commercial & Residential Controller, 12-Station fixed controller, 120 VAC, Outdoor model	1
	Hunter CLIK-DELAY When installed with a Mini-Clik rain sensor, the Hunter Clik-Delay is designed to delay controller activation for 48 hours after the rain has stopped.	1
	Hunter FLOW-CLIK-300 Flow Sensor SOV with Interface Panel, 3" Schedule 40 Sensor Body, 24 VAC, 2 amp, install Interface Panel as required.	1
	Point of Connection 3"	1
	Irrigation Lateral Line: PVC Class 160 SDR 26	4,594 lf
	Irrigation Mainline: PVC Class 200 SDR 21	1,000 lf
	Pipe Sleeve: 6" SCH40 PVC	240 lf
	Pipe Sleeve: 3" SCH40 PVC	300 lf
	Pipe Sleeve: 2" SCH40 PVC	240 lf

OPERATIONS BUILDING VALVE SCHEDULE

FM 437300-2-52-02

<u>NUMBER</u>	<u>MODEL</u>	<u>SIZE</u>	<u>GPM</u>
B1	Hunter ICV-G	2"	81.33
B2	Hunter ICV-G	2"	73.50
B3	Hunter ICV-G	1-1/2"	75.04
B4	Hunter ICV-G	1"	0.00
B5	Hunter ICV-G	1"	0.00
B6	Hunter ICV-G	1-1/2"	0.00
B7	Hunter ICZ-101-25	1"	0.00
B8	Hunter ICZ-101-25	1"	0.00
B9	Hunter ICV-G	1-1/2"	0.00
B10	Hunter ICZ-151-40	1-1/2"	0.00
B11	Hunter ICV-G	1"	0.00
B12	Hunter ICV-G	2"	59.08
B13	Hunter ICV-G	1"	0.00
B14	Hunter ICV-G	1"	18.0
B15	Hunter ICV-G	1-1/2"	21.0
Common Wire			



REVISIONS				Landscape Architect of Record: Brian Shore , RLA No. 6666770 MILLER LEGG 5747 North Andrews Way Fort Lauderdale, Florida 33309 954-436-7000 • www.millerlegg.com Certification of Auth.: LC0000337	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION QUANTITIES OPERATIONS BUILDING		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			LD-24
					NA	POLK	437300-1-52-01			

IRRIGATION NOTES & SPECIFICATIONS									
POINT OF CONNECTION (P.O.C.)									
There will be (3) P.O.C.'s for this project:. POC#1 is located within the limits of the Operations Building Sta. 709+00 right. POC #2 is located at the entry tunnel at Sta. 633+00 left. POC #3 is located along main road Sta. 626+40.00 left. Each POC ties into a 8" recalimed water line with a 2" water meter and a 2" backflow meter, leading to a 3" irrigation mainline.									
Each POC will provide 180 GPM at 65 psi.									
Verify these minimum conditions can be met prior to the beginning irrigation system installation. If the conditions can not be met, the Contractor must notify the department or representative prior to proceeding with the work. If the Contractor does not do so, the Contractor proceeds at their own risk and shall be responsible for any future work required to make the system perform as required/designed.									
1.01 SCOPE OF WORK									
A. This Section specifies the furnishing and installation of an automatically controlled, underground, irrigation system and associated equipment.									
B. The work shall include, but not be limited to the furnishing of all labor, machinery and equipment, tools, materials (pipe, valves, sprinkler heads, fittings, electrical wire and fittings, primer, glue), layout, protection to the public, excavation, pipe assembly, installation of low voltage feed to valves, repair of road surfaces, testing, cleanup, maintenance, asbuilt plans and guarantee.									
C. Investigation of Subsurface Conditions: The Contractor shall be responsible for making site subsurface investigations and examinations as he or she chooses in order to determine the character of the existing material and the construction conditions under which he or she will work.									
D. The Plans are not complete unless accompanied by the Specifications.									
1.02 DESCRIPTION OF SYSTEM									
A. This system is designed as a typical block valve type using valve (or equal), sprinklers (or approved equal), in-line valves connected to and operated by control system with remote control.									
B. The water source for this system shall be an reclaimed water line located within the site. Contractor shall verify that pressure is maintained at adquate PSI when the system is programmed to operate.									
C. Contractor shall be required to install sleeves only if sleeves, installed under separate contract, are not useable or locatable. Existing roadways shall be repaired in accordance with local codes and requirements, in order to match existing conditions.									
D. Design and operate the irrigation system within prescribed 'watering window'; (per Suntrax Facility that watering window is from midnight to 6:00 a.m.). Operate zones concurrently, as needed, to meet the window.									
E. System is a reclaimed system all pipe, sprinkler caps, valves boxes and other system components shall be PANTONE PURPLE.									
1.06 SUBSTITUTIONS									
A. Written requests for approval to substitute a material's type, grade, quality, size, quantity, etc. due to the unavailability of the material specified, shall be submitted within (1) working day after the pre-construction conference. The Landscape Architect or its representative shall give approval before the material is delivered and installed on the project. Do not deliver and install any material, which is anticipated to be a substitute, before it has been submitted in writing, and approved as a substitute by the department its representative. also, any changes, if any, to the contract amount, because of an approved substitute, shall be established in writing between department and the contractor before the material substitute is delivered and installed on the project.									
B. Contractor shall submit a written schedule of sources or suppliers for all materials for inspection and approval before materials are delivered and installed on the project.									
PART 2 – MATERIALS									
2.01 PIPE									
A. Polyvinyl Chloride (PVC) Pipe: Schedule 40, complying with ASTM D1785. Purple Color									
D.SCH160/200: ANSI Standard A21.51.E. Flexible Pipe: "Funny Pipe", Spears "Flexible PVC hose" or approved equal.									
2.02 PIPE FITTINGS									
A. Polyvinyl Chloride (PVC) Pipe Fittings: Schedule 40, socket type: ASTM D2467; Schedule 80 threaded type: ASTM D2464.									
B. Galvanized Steel Pipe Fittings: Malleable steel, threaded, complying with ANSI B 16.3, hot –dip galvanized. To be used for all fittings above ground (except for risers).C. Ductile Iron Fittings: ANSI/AWWA C110/A 21.10, 250 psi rating (up to 12 inch diameter)									
2.03 PRIMER									
A. High etch, tinted type, and shall be compatible with pipe, fittings and joint solvent/glue.									
2.04 SOLVENT/GLUE									
A. Slow drying, heavy-duty gray PVC solvent/glue, of a type recommended by the PVC pipe manufacturer.									
2.05 SPRINKLER HEADS									
A. Popup Spray Heads: Hunter series or approved equal meeting the following criteria:									
1. The sprinkler shall be of the fixed spray type designed for inground installation. The sprinkler shall be capable of the coverage and gallonage as specified.									
2. The nozzle shall be comprised of one (1) or more orifices at two (2) radius ranges and shall be adjustable from full on to full off. The nozzle shall elevate 3 to 6 inches when in operation. Retraction shall be achieved by a heavy-duty stainless steel spring. The nozzle piston shall have a smooth external surface operation in a resilient guide. A riser wiper shall be included in the sprinkler for continuous operation under the presence of sand and other foreign material.									
3. Nozzles for spray heads shall be MPR pressure-compensating type.									
4. Coverage shall be either full or part circle. The part circle coverage shall be available in arcs of 90, 120, 180, 240, and 270 degrees or adjustable part circle. Also included shall be special patterns including an end strip and center strip nozzle configuration. Nozzle delivery shall be such as to allow circle patterns to match full circle patterns in precipitation rates.									
5. The body of the sprinkler shall be constructed of seamless, molded plastic. A filter screen shall be in the nozzle piston. All sprinkler parts shall be removable through the top of the unit by removal of a threaded cap.									
B. Popup Spray Heads (12"): The sprinkler shall be Hunter 12" popup spray head or approved equal meeting the following criteria:									
1. The sprinkler shall be of the fixed spray type designed for in ground installation. The sprinkler shall be capable of operating at the specified pressure provided.									
2. The nozzle shall be comprised of one (1) orifice at two (2) radius ranges and shall be adjustable from full on to full off. The nozzle shall elevate 12 inches when in operation. The nozzle shall retract with a heavy duty stainless steel spring completely inside the body of the sprinkler.									
3. Nozzles for spray heads shall be MPR – pressure-compensating type.									
4. The nozzle piston shall have a smooth round external surface. A riser wiper shall be included in the sprinkler for continuous operation under the presence of sand and other foreign material.									
5. Coverage shall be either full or part circle. The part circle coverage shall be available in arcs of 90, 120, 180, 240, and 270 degrees. Also included shall be special patterns including an end strip, center strip, side strip and an adjustable arc nozzle capable of covering an infinite spray pattern from 0 to 270 degrees. The 0 to 270 degrees adjustment must be accomplished by adjusting the flow of water in each 90-degree quadrant by an adjustable screw. Nozzle GPM must be such that part circle sprinklers supply the same precipitation rate as full circle sprinklers.									
6. The body shall be constructed of seamless, molded plastic. The single water inlet shall be 1/2" IPS located at the bottom of the sprinkler. A filter screen shall be in the nozzle piston and be serviceable by removing the nozzle only.									
C. Shrub Spray Sprinkler Head: The sprinkler shall be Hunter series Shrub Sprinkler or approved equal meeting the following criteria:									
1. The sprinklers shall be capable of coverage and gallonage as specified.									
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REVISIONS				Landscape Architect of Record: Brian R. Shore, RLA No. 6666770 MILLER LEGG 5747 North Andrews Way Fort Lauderdale, Florida 33309 954-436-7000 • www.millerlegg.com Certification of Auth.: LC0000337	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LD-25
					NA	POLK	437300-1-52-01		

2. The sprinkler shall consist of nozzle and body. The nozzles shall be adjustable by means of a stainless steel screw. Nozzle delivery at maximum flow shall be such as to allow part circle patterns to be compatible in precipitation rates with full circle nozzles. 3. Nozzles for spray heads shall be MPR – pressure-compensating type. 4. The body of the sprinkler shall be constructed of seamless, molded plastic. A 2" long cone strainer shall be a separate part with the nozzle assembly to allow for easy flushing of the sprinkler. Maximum working pressure at the base of the sprinkler shall be 50 psi. The sprinkler base shall have 1/2" IPS female threads and shall be approximately 1 1/4" high..				and 2" models, screwdriver operation on 1" model) and constructed with stainless steel trim. Solenoid operator shall be 3.5 watt, 24 volt AC with tamper-proof, molded coil and twisting wire. Diaphragm shall be rubber. Continuous water flow through the ports during operation shall be prevented through "Tir-Act" solenoid porting or some other similar method. Inlet port to solenoid shall be filtered, with self-flushing stainless steel screen, removable from the outside of the valve body for maintenance. All parts of the valve shall be serviceable while valve is still in place. Valve shall have no external plumbing or tubing such that installation of the valve at different angles shall affect valve operation.				PART 3 EXECUTION 3.01 INSPECTION A. Utilities (Overhead and Underground): 1. The work area may have existing utilities, such as, but not limited to, phone, electrical and storm sewer. The location of some of these existing utilities may have been indicated on the Plans. However, no guarantee is implied that the Plans are accurate or complete. It shall be the sole responsibility of the Contractor to verify the location of all such utilities, structures, etc., by hand excavation or other appropriate measures before performing any work that could result in damage or injury to persons, utilities, structures or property. The Contractor shall make a thorough search of the site for utilities, structures, etc., before commencing with work in any particular location. 2. The Contractor shall take steps to repair, replace, or restore all services of any utilities or other facilities which are disrupted due to his or her operations immediately. Further, the Contractor shall engage any additional outside services which may be necessary to prosecute repairs on a continuous "around the clock" basis until services are restored. The Contractor shall also provide and operate any supplemental temporary services to maintain uninterrupted use of the facilities. All costs involved in the repairs and restoring disrupted service resulting from negligence on the part of the Contractor shall be borne by the Contractor and he or she shall be fully responsible for any and all claims resulting from the damage. Should the Contractor fail to repair, replace, or restore services damaged, within 4 hours, 3. Should utilities, structures, etc., be encountered which interfere with the work, Department or its representative shall be consulted in order for a decision to be made on the relocation of the work so it will clear the obstruction, if the obstruction cannot be relocated. 4. The Contractor shall not purposefully disrupt or disconnect any type of utility whatsoever without first obtaining the written permission of Department or its representative. Requests for disconnection must be in writing and received by Department or its representative at least 72 hours prior to the time of the requested interruption.				3.02 GRADES A. It shall be the responsibility of the Contractor to provide the final grading so the final level conforms to surrounding grades and is at the proper elevation with relation to walks, paving, drain structures and other site conditions, unless indicated otherwise on the Plans. 3.03 PREPARATION A. Modifications Due to Field Conditions: Conditions that occur on the project that cause the system to be modified, shall be presented as shop drawings and/or a letter by the Contractor and approved by Department or its representative prior to installation. B. Layout of Main and Laterals: The sprinkler main lines and all laterals shall be laid out by the Contractor and approved by Department or its representative prior to excavation. Any adjustment or modification, which requires approval by Department or its representative, shall be done prior to the excavation operation. C. Sprinkler lines under paved areas shall be in sleeves or as specifically noted on the Plans. D. Layout of Sprinkler Heads: All sprinkler head locations shall be staked by the Contractor and approved, if necessary, by Department or its representative prior to installation to ensure uniformity and correctness to both pattern and coverage. E. Valve Locations: The location of all valves are schematic only and shall be adjusted for on site conditions. The location of all valves shall be staked by the Contractor and approved, if necessary, by Department or its representative prior to installation to ensure ease of access for maintenance and to ensure that they do not conflict with other elements of the project. Each valve shall be installed in a separate valve box. A minimum of one cubic foot of gravel shall be provided per valve box for drainage. Each automatic valve shall be installed in an angle configuration to minimize friction loss through the valve. F. All components such as vacuum breakers and exterior controllers shall be located in landscape shrub masses such that they are screened and serviceable, and should be generally visible.			
2.06 IRRIGATION CONTROL WIRE A. All irrigation control wire, from the controller to the electric valves shall be single conductor, UL approved, PE irrigation control wire. Insulation shall be low density, high molecular weight, polyethylene insulation suitable for operating at 600 volts and conductor temperatures up to 60 degrees B. The conductor shall be soft-drawn bare copper meeting the requirements of ASTM specification B3 or B8. Temperature rating shall be from 55 degrees to +60 degrees C. Thickness of insulation for conductor sizes 14 AWG through 8 AWG solid shall be 3/64 inches. AWG wire size shall be in accordance with the valve manufacturer's specifications based upon a relationship between the number of valves and their distance from the controller. D. All irrigation controller wire shall be installed within 2" conduit.				2.11 VALVE BOX A. Valve boxes shall be made of Superflexon 1203. Boxes shall be 16 in. x 12 in. x 10 3/4 in., black and with a green cover. B. Bottom of all valve boxes will be on a 3" bed of pea gravel.D. Round 12" Diameter valve boxes (only) by Pentek shall be used to mark ends of sleeves and sleeve banks.				2.12 CONTROL SYSTEM See sheet Irrigation Details.				2.13 BACKFILL A. Backfill material shall be clean fill, and completely free from rock or other material which will damage the pipe if it comes in contact with it. If material from excavation is not acceptable, then clean sand must be used. No rock will be permitted in contact with the PVC pipe. B. Provide clean, sand fill around each popup head.			
2.07 WIRE CONNECTORS A. All splices in irrigation control wire shall utilize the Rainbird ST03 (or equal) UL SnapTite connectors and PTS5 sealer or 3M DBY Direct Bury Splice Kit.				2.14 CONCRETE FOR THRUST BLOCK A. Portland Cement, with coarse aggregate mixture, reaching a minimum compressive strength of 2800 psi in 28 days.											
2.08 CONDUIT A. UL approved gray PVC; 2" size or as required by code whichever is larger in size. B. UL approved, UV resistant PVC or heavy walled galvanized pipe where subjected to sunlight. Size as stated above or as called for on the plans.				2.09 AUTOMATIC CONTROL VALVES A. Zone valves shall be (see irrigation legend), electrically activated, normally closed, remote control valve with manual bleed plug, manual control (cross handle operation on 1-1/2"											
REVISIONS				Landscape Architect of Record: Brian R. Shore, RLA No. 6666770		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION NOTES		SHEET NO.				
DATE	DESCRIPTION	DATE	DESCRIPTION	MILLER LEGG 5747 North Andrews Way Fort Lauderdale, Florida 33309 954-436-7000 • www.millerlegg.com Certification of Auth.: LC0000337		ROAD NO.	COUNTY	FINANCIAL PROJECT ID							
						NA	POLK	437300-1-52-01	LD-26						

G. Irrigation Plans: The irrigation system indicated on the Plans is shown for clarity and is essentially diagrammatic. Spacing of the heads shown on the Plans shall not be modified unless approved in writing by Department or its representative.

3.04 SLEEVES
A. All sleeves shall be buried a min. of 36" beneath all hard surfaces and extend a min. of 24" (on both sides) beyond the hard surface. Run irrigation piping and electrical conduit sleeves in same trench with a min. of 6" cover between. Flood sand-backfill material and vibrate with concrete vibrator. Irrigation contractor shall coordinate with general contractor so that installation of sleeves occurs prior to any above interfering hard surface/road installation.

3.05 PIPE INSTALLATION
A. Minimum Depth of Cover: The minimum depth of cover over piping shall be 18 inches for mains and conduit for control wires, 12 inches for laterals and 24 inches for pipe under vehicular use areas or roads. In rocky areas, the trenching depth shall be two inches below normal trench depth to allow for a 2-inch bed of sand below the pipe. The Contractor shall use backfilling equipment that will tamp backfill to its original density. The Contractor shall barricade or light the excavation to prevent hazards to the public. The Contractor shall remove objectionable materials such as concrete, asphalt, limerock, bricks and rocks that are encountered, from the project.

B. PVC Pipe Assembly:
1. All PVC pipe shall be cut to the proper length prior to assembly. The cut shall be neat and square, 90 degrees to the axis of the pipe. Deburr the cut end and clean the fitting and pipe end with a primer prior to assembly.
2. A thin even flow coat of gray PVC solvent/glue shall be applied to both the insides of the fitting and the pipe-mating surface.
3. The pipe shall be inserted into the fitting until it bottoms, then given a quarter turn to insure proper sealing, and held to insure even pressure for ten seconds. Do not place newly joined pipe and fittings into service until the curing time, as recommended by the manufacturer or for 24 hours, whichever is longer, has been achieved. The finished joint shall be watertight and shall have strength equal to or greater than that of the pipe being joined.

4. The direct tapping of the PVC pipe or fittings shall not be permitted.
C. Thrust Block Installation: For main line and lateral pipe 3 inches in size and larger, install concrete thrust blocks at all charges in direction of pipe.

3.06 VALVE BOXES
A. Each valve shall be installed in a separate rectangular valve box.
B. Rectangular valve boxes shall be installed as indicated on the Plans, every 250 lineal feet along runs of conduit and where changes in direction are made, such as, but not limited to 90 degree turns.
C. Provide & install 11' round plastic valve boxes as 'markers' to demark the locations of the ends of sleeves and banks of sleeves. (The gravel setting bed will not be necessary for the boxes that mark the end locations of the sleeves).D. Provide & install a rectangular valve box for each quick coupler/hose bib valve.

3.07 SPRINKLER HEAD INSTALLATION
A. Sprinkler heads shall be set so that the final level of ground around the heads shall conform to surrounding grades, or as otherwise specified.
B. Sprinkler head on risers: The height shall be established after the plant material is in place to ensure proper coverage. Paint all risers black or as indicated on the plans. Do not place risers adjacent to vehicular travel lanes (e.g. at the back of curbs) or adjacent to pedestrian walkways (e.g. next to sidewalks).
C. Adjustment features of sprinklers specified shall be utilized to ensure proper coverage with minimal undesirable overthrow. Low angle nozzles and adjustable arc nozzles shall be used were possible to minimize overthrow. A prime objective is to minimize overthrow unto roadways.
D. Sprinklers shall be set away from roadway and sidewalk edges to minimize overthrow and the chance of damage by vehicles, pedestrians and lawn maintenance personnel. Pop-up spray heads shall be set back 6 inches, and pop-up rotary and shrub heads shall be set back 12 inches from the edge of such pavements.

3.08 IRRIGATION CONTROL WIRE
A. ALL IRRIGATION CONTROL WIRE SHALL BE INSTALLED IN UL APPROVED PVC CONDUIT.
B. The conduit shall extend a minimum of 2 inches into the valve boxes and 1 inch into the controller housing.
C. All wires shall be color coded to facilitate troubleshooting and brought back to the controller and identified as to which valves they operate. Common bond wire is to be identified.
D. Install conduit, for the low voltage irrigation control wires only, in the same trench as the irrigation main, where possible.
3.09 CLEANING AND PRESSURE TESTING
A. After all PVC assembly is complete and prior to the installation of the sprinkler heads, the lines shall be flushed to ensure that no rock, sand or other foreign material remains in the lines.
B. The main shall be filled with water and all outlets shall be capped and plugged. The main shall be pressurized to 125 psi for a minimum of 2 hours. No section of the main will be approved if the pressure drops by more than 10 psi at the end of the 2-hour period. Leaks shall be repaired immediately and the system shall be retested until found satisfactory. Landscape Architect of record/representative to be present at all testing inspections. Provide two business day notice of any mainline testing. Test system prior to notification.
3.10 ADJUSTMENT OF SYSTEM
A. Adjustment of sprinkler heads and automatic equipment will be done by the Contractor upon, completion of installation to provide optimum performance.
B. It shall be the responsibility of the Contractor to adjust the system in order to provide 100% coverage, 90% overlap under wind conditions of 15 mph or less and to make corrections and recommendations as necessary.

3.11 CLEANUP
A. Disposal of Trash: All debris and other objectionable material created shall be removed completely on a daily basis from the job.
B. Materials and equipment shall be stored at the end of each workday. Keep work areas in an orderly condition. When a specific area has been completed, it shall be thoroughly cleaned up immediately after completion.

3.12 PROTECTION
A. Responsibility for Protection and Restoration of Property: The Contractor shall be responsible for all damage or injury to persons or property on the job site.
B. Protection Against Mechanical Damage: The Contractor's responsibility for protection against mechanical damage shall include providing protection from vehicles and providing warning signs and barricades as might be necessary and the contractor shall repair, restore and replace all property which becomes damaged as a result of any negligence of the Contractor or his or her employees in complying with these requirements. Coordination shall be with the Department or its representative.

3.13 COMPLETION AND FINAL ACCEPTANCE
A. Upon written notice from the Contractor of the presumptive completion of the entire project, as defined below, Department or its representative, along with other appropriate parties, will perform an inspection within 48 hours after said written notice. If all construction has been completed in accordance with the Plans and Specifications, such inspection shall constitute the final inspection. The Contractor shall be notified in writing of final acceptance as of the date of the final inspection.
B. If, however, the inspection mentioned in paragraph A, above, discloses any work, in whole or in part, as being unsatisfactory, final acceptance shall not be given and the Department will give the Contractor the necessary instructions or "punch list" for correction of same. The Contractor shall have up to ten (10) calendar days from the date of the "punch list" to correct the work. If the "punch list" items have not been completed within the specified period, then the Department may correct the work and backcharge the Contractor for materials, labor and equipment, plus 25% administrative costs.
C. Upon correction of work, another inspection will be made which shall constitute the final inspection, provided the work has been satisfactorily completed. In such event, the Department or their representative shall grant final acceptance and notify the Contractor in writing of this final acceptance as of the date of this final inspection.

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D. Completion of the work shall mean the full and exact compliance and conformity with the provisions expressed or implied in the Plans and Specifications including any and all "punch lists" which may be issued outlining certain items of work which were found unsatisfactory or require completion or correction action.

E. Final acceptance shall not be given until all work, provided for and indicated in the Plans and Specifications, is inspected by Department or its representative and has been found to be complete in accordance with the Plans and Specifications.

F. Final acceptance shall not be official until acknowledged in writing by the Department or their representative.

G. The guarantee period shall not begin until the day final acceptance is granted.

3.14 RESPONSIBILITY PRIOR TO FINAL ACCEPTANCE:
The following is a partial list of certain responsibilities of the Contractor. The Contractor is also responsible for all other tasks indicated on the Plans and in the Specifications. The lack of listing a responsibility on the following list does not relieve the Contractor of that responsibility, if it is indicated elsewhere in the Plans and Specifications. Additionally, the listing of a responsibility on the following list does not necessarily make it any more important than one that is not listed:

- A. Repair of all damage to installed material and equipment as needed.
- B. Adjustment of all sprinkler-heads, with regard to proper height, arc, coverage, radius and operation, shall be performed at least once a week.
- C. Clean and adjust all valves and other controls as necessary, at least once a week. Repair or replace any damaged components that are found. Also, check to ensure that valves are opening and closing properly.
- D. Once a week the controller shall be checked to ensure that the clock has the right time, that the program is properly set and that it is properly operating all of the valves correctly. Following inspections, lock the controller.
- E. After testing, completion and adjustment of the system, the Contractor will instruct the maintenance personnel in the operation and maintenance of the system.

F. All data sheets for controller, valves, etc., including operational and parts manuals shall be turned over to Department. Instruct Department staff on operation of Controllers.

G. Material rejected during the course of construction shall be removed within ten (10) working days and replaced before an inspection for completion will be schedule.

H. Replacement: Replacement of material shall be the responsibility of the Contractor including the possible replacement of material resulting from removal by theft or vandalism or acts of negligence on the part of others.

I. RECORD DRAWINGS

Record drawings – After project completion, and as a final acceptance, the irrigation contractor to provide the engineer with three (3) high quality, accurate, and legible set of as built drawings and (2) sets for maintaining agency. The asbuilts must identify all remote control valves, gate valves, ball valves, splice boxes, controllers, mainline, sleeving, and low voltage wiring. Each of these items is to be located using a submeter GPS system and indicate each equipment element in two directions by demensioning on plan. The irrigation contractor must also provide accurate, imformative, and easy to follow and understand operation and maintenance manuals for all components of the irrigation system.

J. CONTROLLER CHARTS

Upon completion of "asbuilts" prepare controller charts, one per controller and indicate on each chart the area controlled by the remote control valve (using a differnet color for each zone). This chart to be reduced to a size that will fit inside the controller door. The reduction to be hermetically sealed inside the 2 ml pieces of clear plastic.

3.15 SUBMITTALS

Submit for approval, prior to installation, copies of the manufacturer cut sheets and specifications for all components to be used in the irrigation systems. Mimimum submital items are: irrigation heads, valves, valve boxes, lateral, mainline pipe, sleeve pipe, swing joint, assembly, funny pipe, wires, water proof connectors, controllers, cabinets, rain sensors.

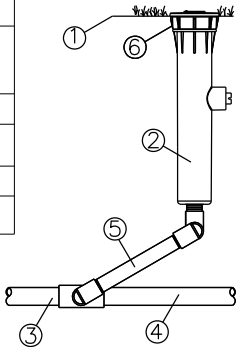
4.0 GUARANTEE & MAINTENANCE

The installed irrigation systems to be guaranteed and maintained for a minimum of (1) calendar year from time of final acceptance.

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TABLE CHART

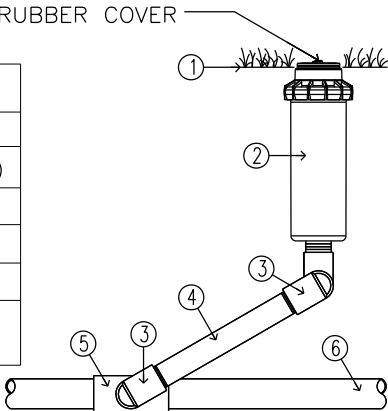
①	FINISH GRADE
②	MODEL PROS-06 SPRAY HEAD
③	LATERAL TEE OR ELL
④	LATERAL PIPE
⑤	SWING JOINT
⑥	RECLAIMED CAP



① POP UP SPRAY HEAD

TABLE CHART

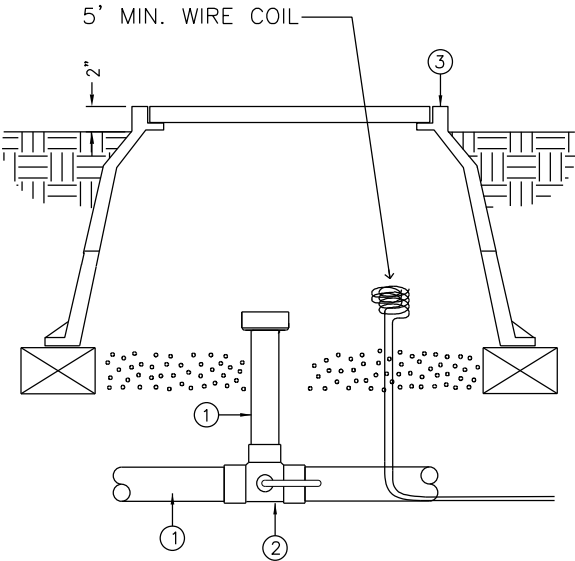
①	FINISH GRADE
②	MODEL PGP ROTOR HEAD
③	3/4" PVC STREET ELLS (3)
④	SCH 80 NIPPLE
⑤	LATERAL TEE OR ELL
⑥	LATERAL PIPE
⑦	RECLAIMED RUBBER COVER



② TURF ROTOR

TABLE CHART

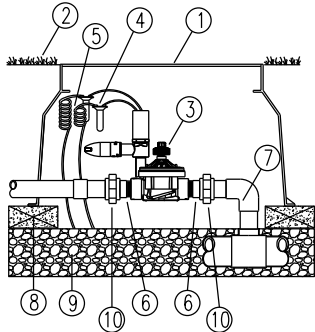
①	6" IRRIGATION MAINLINE
②	TEE W/SHUT OFF VALVE AT MAINLINE (SEE PLAN FOR LOCATIONS)
③	STANDARD RECTANGULAR VALVE BOX



③ STUB W/BOX DETAIL

TABLE CHART

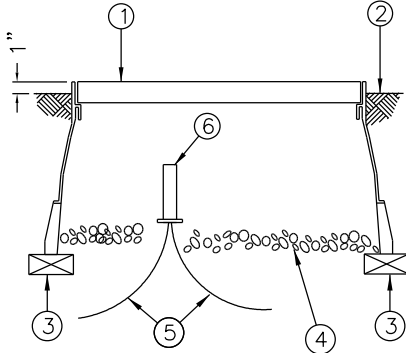
①	STANDARD RECTANGLE VALVE BOX WITH PURPLE COVER
②	FINISH GRADE
③	REMOTE CONTROL VALVE WITH FILTER SENTRY
④	WATERPROOF CONNECTORS (2)
⑤	18-24" COILED WIRE
⑥	SCH 80 T.O.E. NIPPLE
⑦	MAIN LINE PIPE & FITTINGS
⑧	BRICK SUPPORTS (4)
⑨	3/4" MINUS WASHED GRAVEL
⑩	PVC SLIP UNIONS



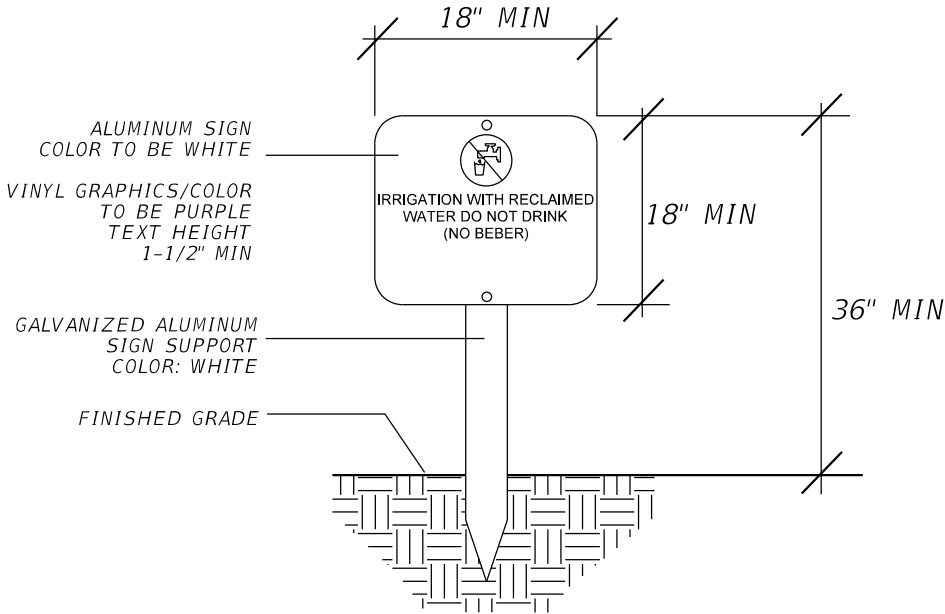
④ ICV VALVE DETAIL

TABLE CHART

①	SPLICE BOX WITH COVER: 24-INCH SIZE PURPLE
②	FINISH GRADE/TOP OF MULCH
③	BRICK (1 OF 4)
④	3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
⑤	DIRECT BURIAL LOW VOLTAGE CONTROL WIRE (TYP.)
⑥	3M-DBY WATER PROOF CONNECTOR (TYP.)



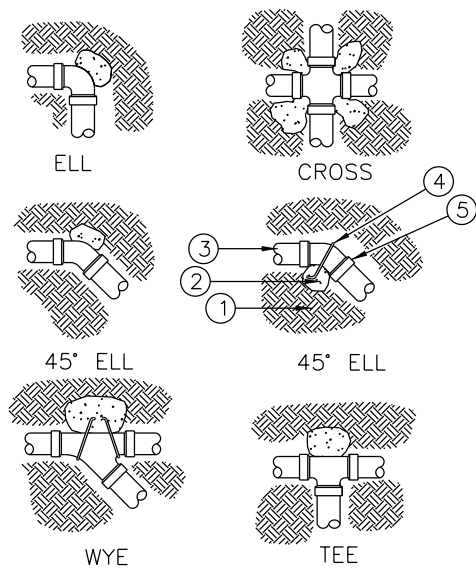
⑤ WIRE SPLICE



⑥ NON POTABLE SIGN - 36" MIN. HT.

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					NA	POLK	437300-1-52-01		

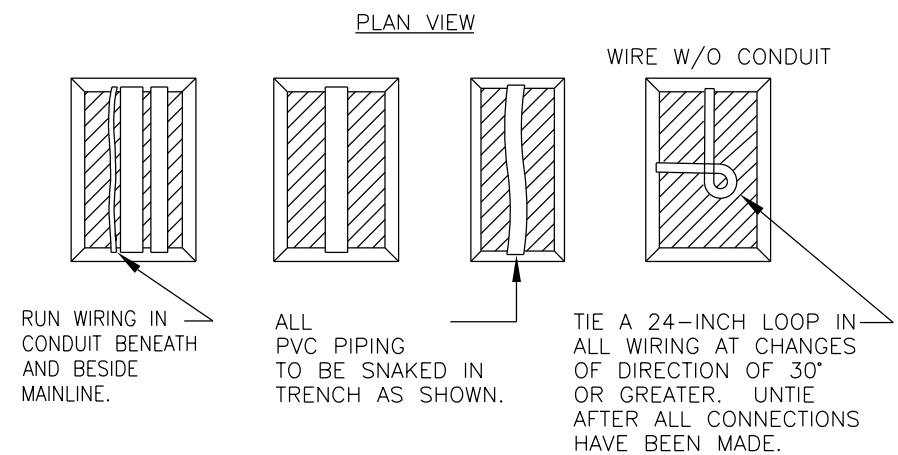
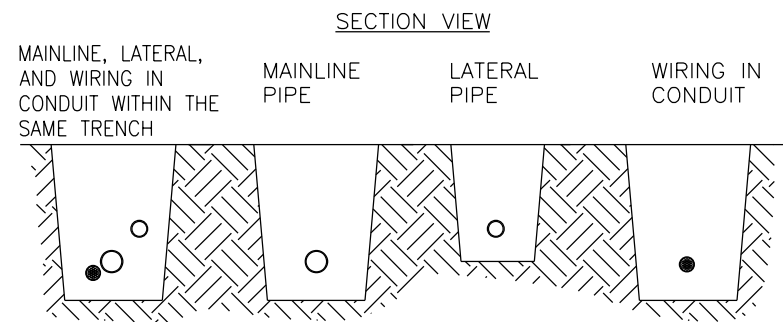
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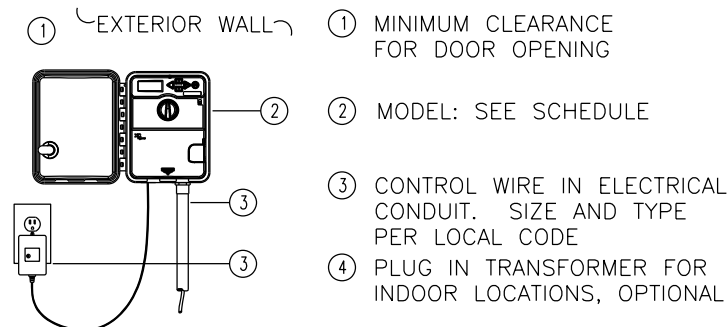
①	UNDISTURBED SOIL (TYPICAL)
②	CONCRETE THRUST BLOCK (TYPICAL)
③	PIPE (TYPICAL)
④	REBAR BENT AROUND FITTING (TYPICAL)
⑤	FITTING (TYPICAL)

NOTES:
1. ALL PVC MAINLINE PIPING SHALL RECEIVE CONCRETE THRUST BLOCKS.
2. REFER TO PIPE MANUFACTURER'S SPECIFICATIONS. FOR AMOUNT OF CONCRETE TO BE USED FOR THRUST BLOCK.

7 THRUST BLOCK DETAIL

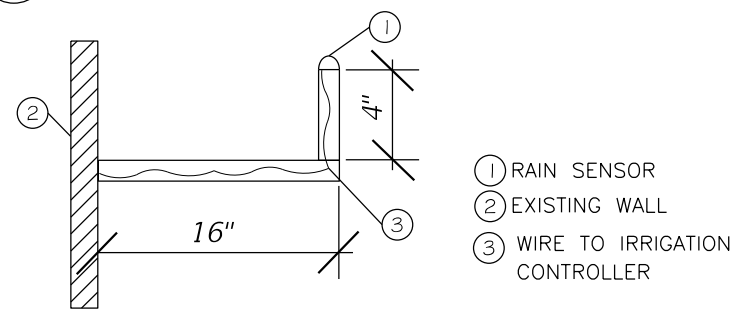


10 PIPE AND WIRE TRENCHING



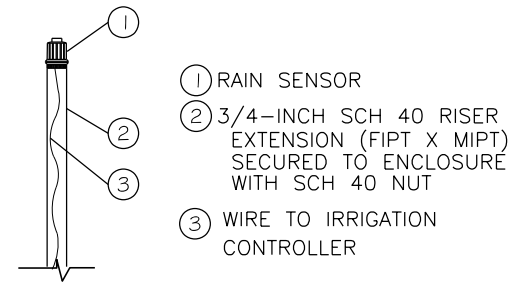
NOTE
SPECIFY 4, 6, 8, 10 OR 12 STATION MODEL CONTROLLER.
MOUNT CONTROLLER

8 HUNTER CONTROLLER



9 WALL RAIN SENSOR

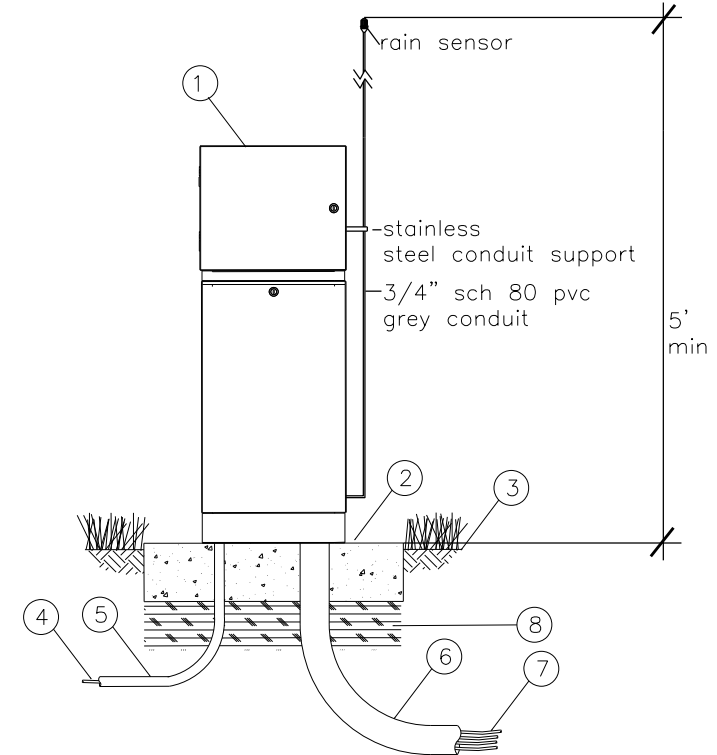
NOTE: COORDINATE LOCATION OF RAIN SENSOR PRIOR TO INSTALL COORDINATE CONDUIT FROM ELECTRICAL ROOM. NO CONDUIT TO BE INSTALLED ON EXTERIOR OF BUILDING WALL.



11 RAIN SENSOR CABINET MOUNT
FM (437300-1-52-01)

- ① IRRIGATION CONTROLLER: CONTROLLER WITH STAINLESS STEEL METAL CABINET AND PEDESTAL. INSTALL CONTROLLER, CABINET AND PEDESTAL PER MANUFACTURER'S RECOMMENDATIONS.
- ② CONCRETE PAD: 6-INCH MINIMUM THICKNESS EXTENDING 6" AROUND BASE OF CABINET
- ③ FINISH GRADE
- ④ POWER SUPPLY WIRE REFER TO SITE/ BUILDING ELECTRICAL
- ⑤ 1-INCH SCH 40 PVC CONDUIT, FITTINGS AND SWEEP ELL FOR POWER SUPPLY
- ⑥ 3-INCH SCH 40 PVC CONDUIT, FITTINGS AND SWEEP ELL FOR STATION WIRES
- ⑦ WIRES TO REMOTE CONTROL VALVES
- ⑧ COMPACTED SUBGRADE

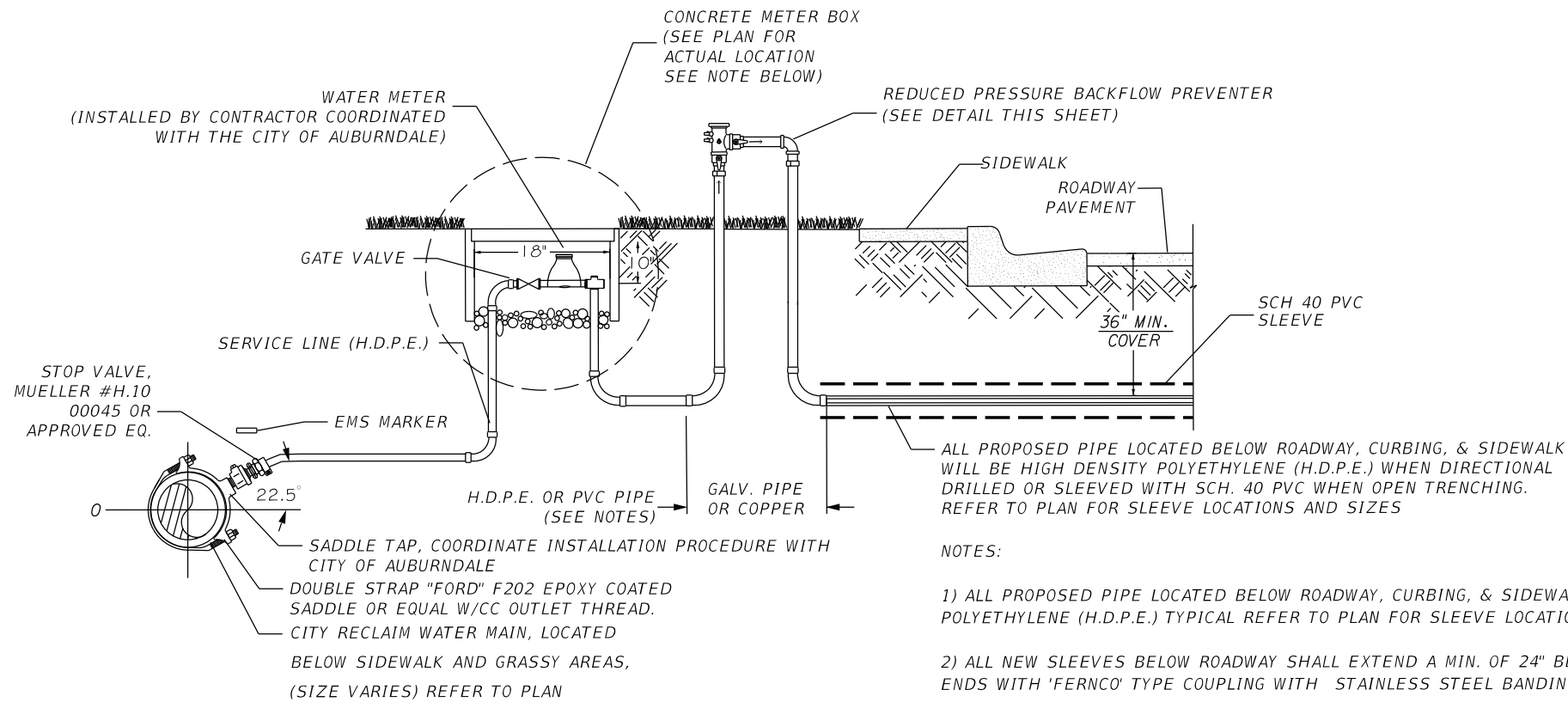
NOTES:
1. CONTROLLERS STATION BASE MODEL. ADDITIONAL MODULES IN STATION VERSIONS MAY BE ADDED TO BRING THE CONTROLLER UP TO 48 STATIONS MAXIMUM.
2. FOR EASE OF INSTALLATION INTO A CONTROLLER WITH MORE THAN 24 STATIONS, INSTALL A JUNCTION BOX AT THE BASE OF CONTROLLER AND TRANSITION LARGER VALVE AND COMMON WIRES FROM FIELD TO 18 AWG MULTI CONDUCTOR WIRE TO BE USED IN CONTROLLER.
3. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS.



12 PEDESTAL ENCLOSURE
FM (437300-1-52-01)

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					NA	POLK	437300-1-52-01		

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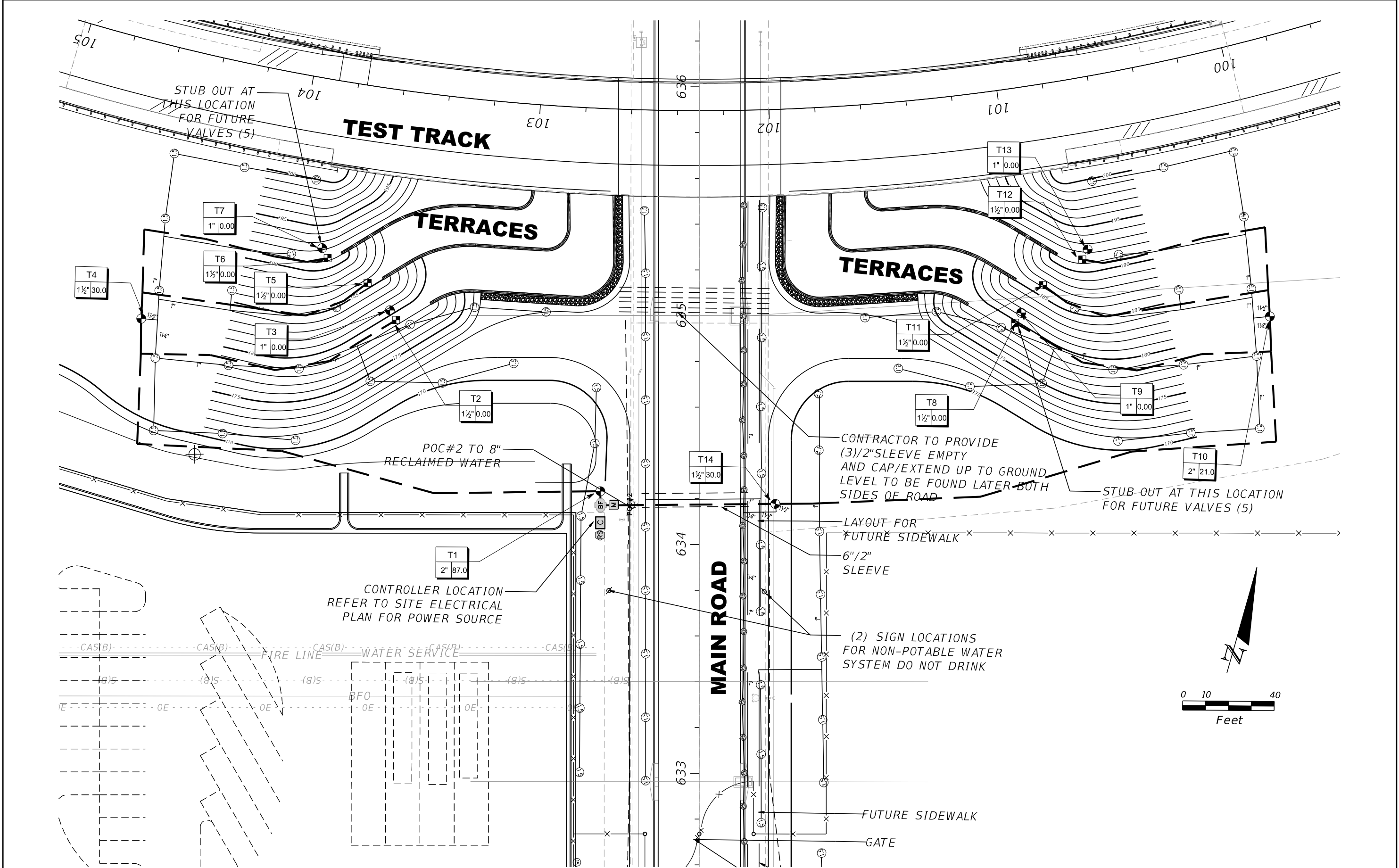


13 POINT OF CONNECTION ASSEMBLY

NOTES:

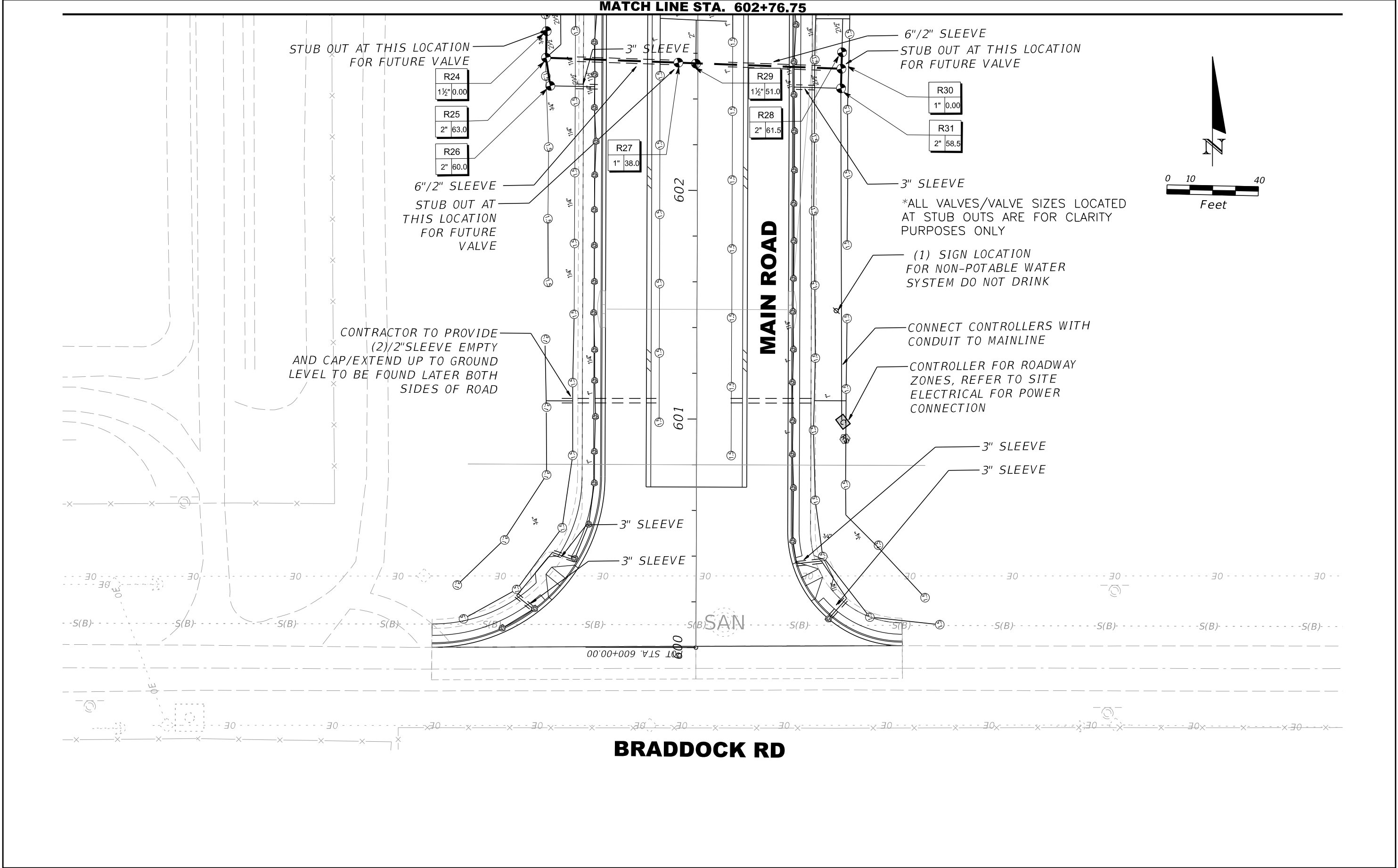
- 1) ALL PROPOSED PIPE LOCATED BELOW ROADWAY, CURBING, & SIDEWALK WILL BE HIGH DENSITY POLYETHYLENE (H.D.P.E.) TYPICAL REFER TO PLAN FOR SLEEVE LOCATIONS AND SIZES
- 2) ALL NEW SLEEVES BELOW ROADWAY SHALL EXTEND A MIN. OF 24" BEYOND THE EDGE OF THE ROAD. SEAL ENDS WITH 'FERNCO' TYPE COUPLING WITH STAINLESS STEEL BANDING CLAMPS.
- 3) CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING GRADE AND SOD AREAS DISTURBED DURING WATER MAIN TAPPING PROCEDURES.
- 4) CONTRACTOR TO ADD CONCRETE APRON AROUND PROPOSED WATER METERS ONLY WHEN PLACED IN GRASSED SHOULDER AREAS.
- 5) ALL PIPE/ASSEMBLIES TO BE PAINTED PURPLE UTILIZING MANUFACTURE COLOR OR PAINTING.

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LD-31
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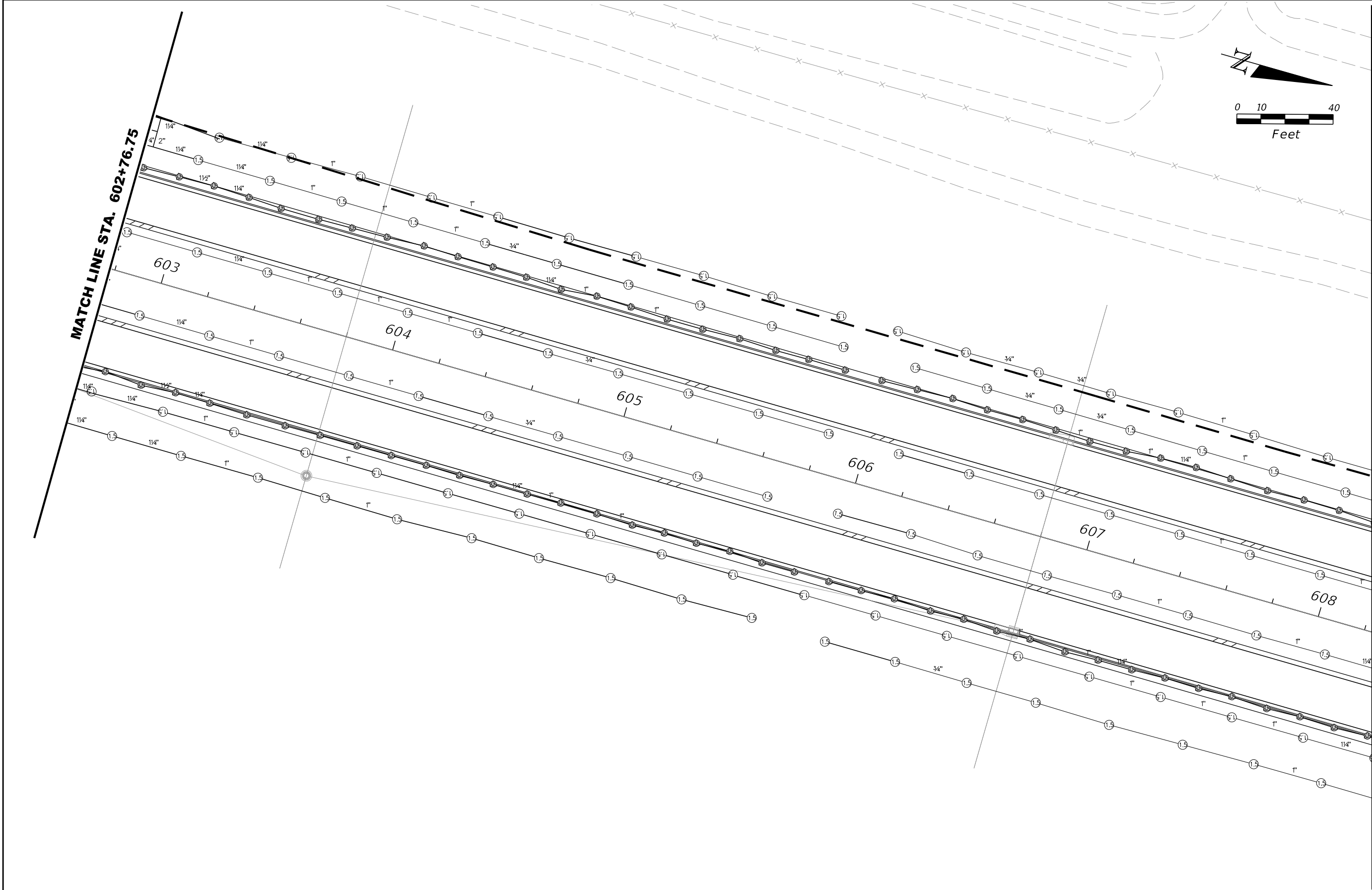
REVISIONS				Landscape Architect of Record: Brian R. Shore, RLA No. 6666770 MILLER LEGG 5747 North Andrews Way Fort Lauderdale, Florida 33309 954-436-7000 • www.millerlegg.com Certification of Auth.: LC0000337	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN TERRACE WALLS		SHEET NO. LD-32
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
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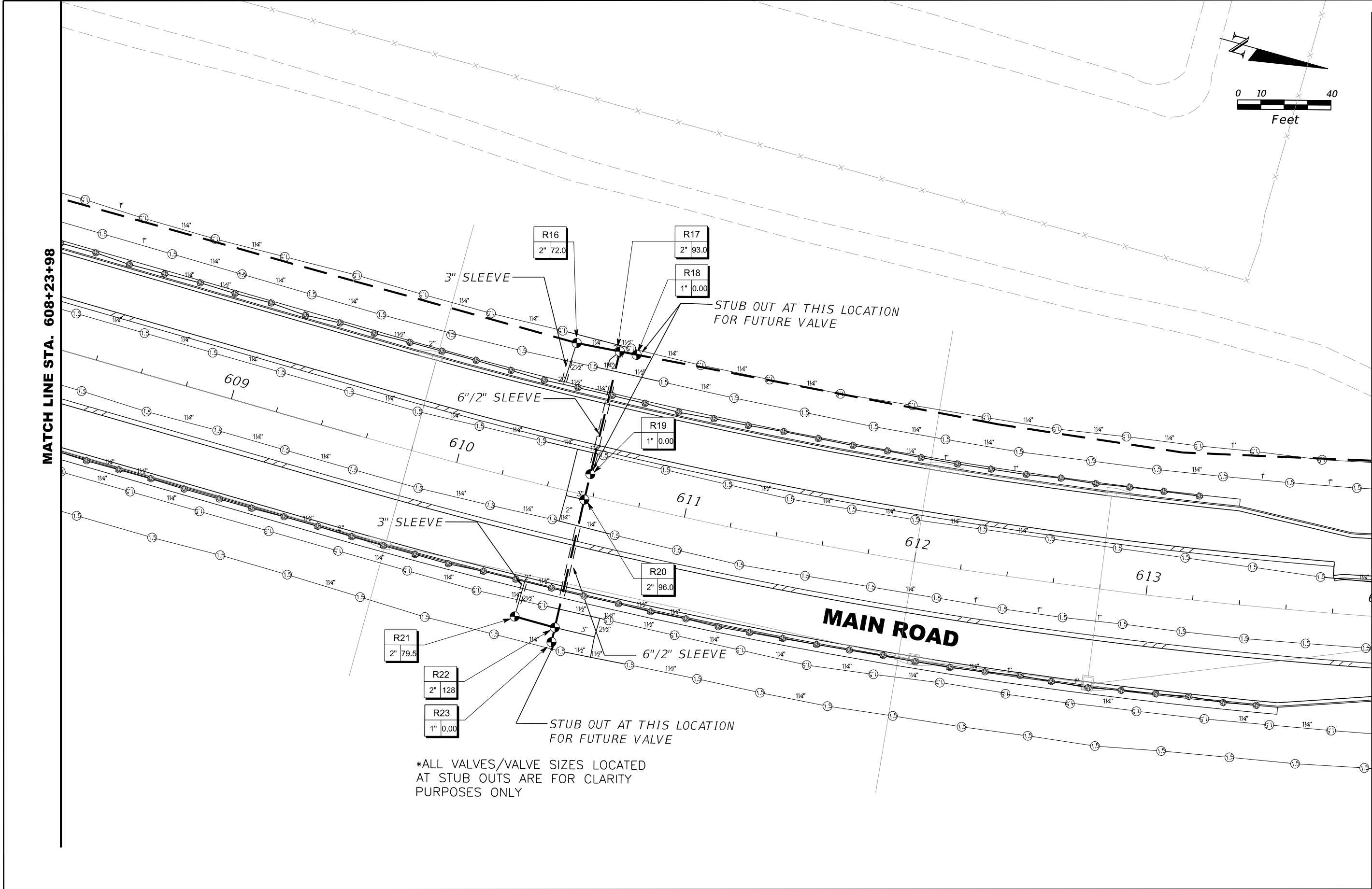
REVISIONS				Landscape Architect of Record: Brian R. Shore, RLA No. 6666770 MILLER LEGG 5747 North Andrews Way Fort Lauderdale, Florida 33309 954-436-7000 • www.millerlegg.com Certification of Auth.: LC0000337	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN ROADWAY		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION							
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
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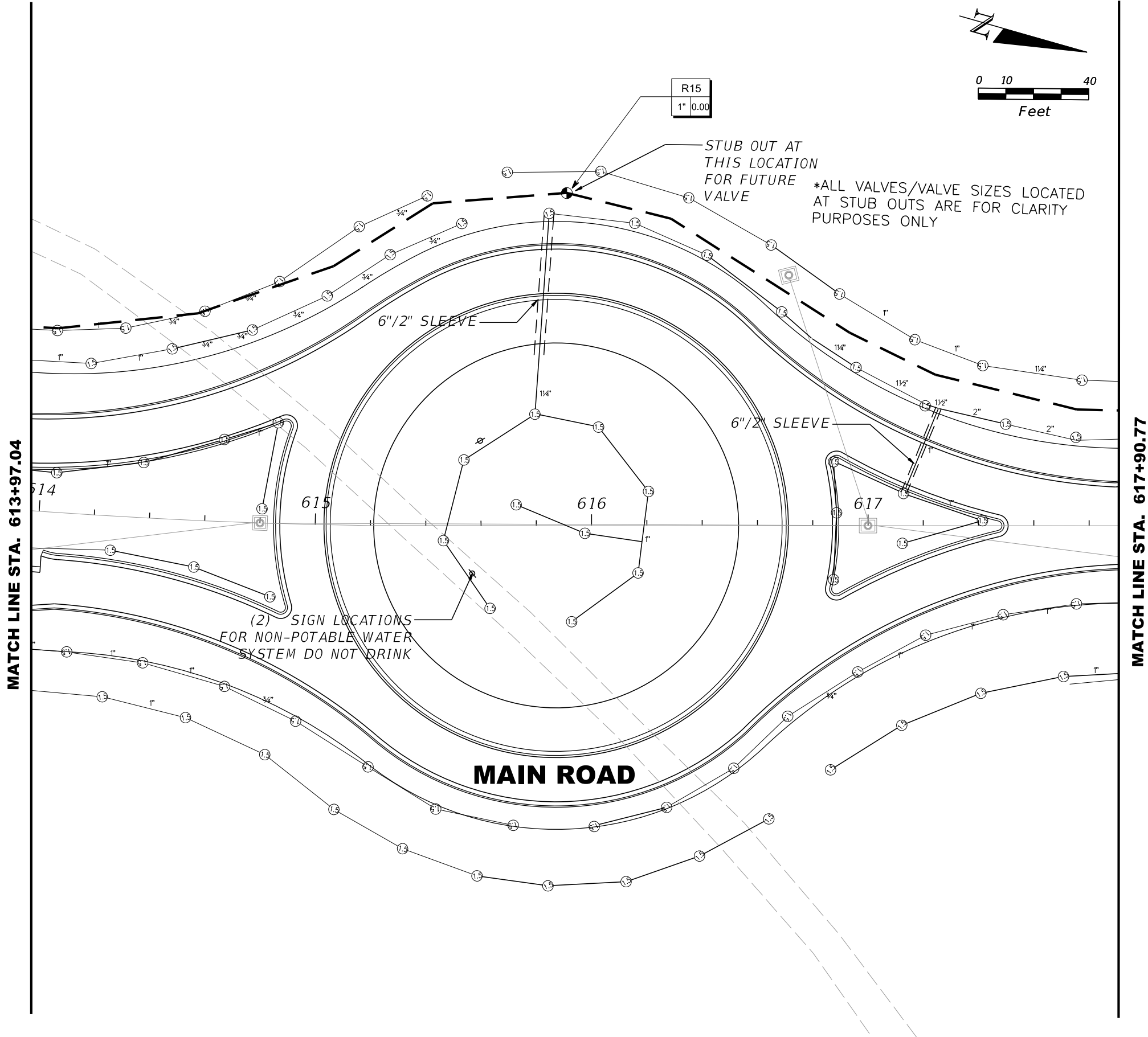
REVISIONS				Landscape Architect of Record: Brian R. Shore, RLA No. 6666770 MILLER LEGG 5747 North Andrews Way Fort Lauderdale, Florida 33309 954-436-7000 • www.millerlegg.com Certification of Auth.: LC0000337	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN ROADWAY		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION							LD-34
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					NA	POLK	437300-1-52-01			

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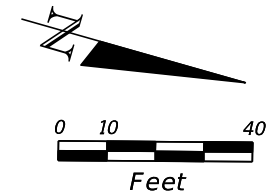
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
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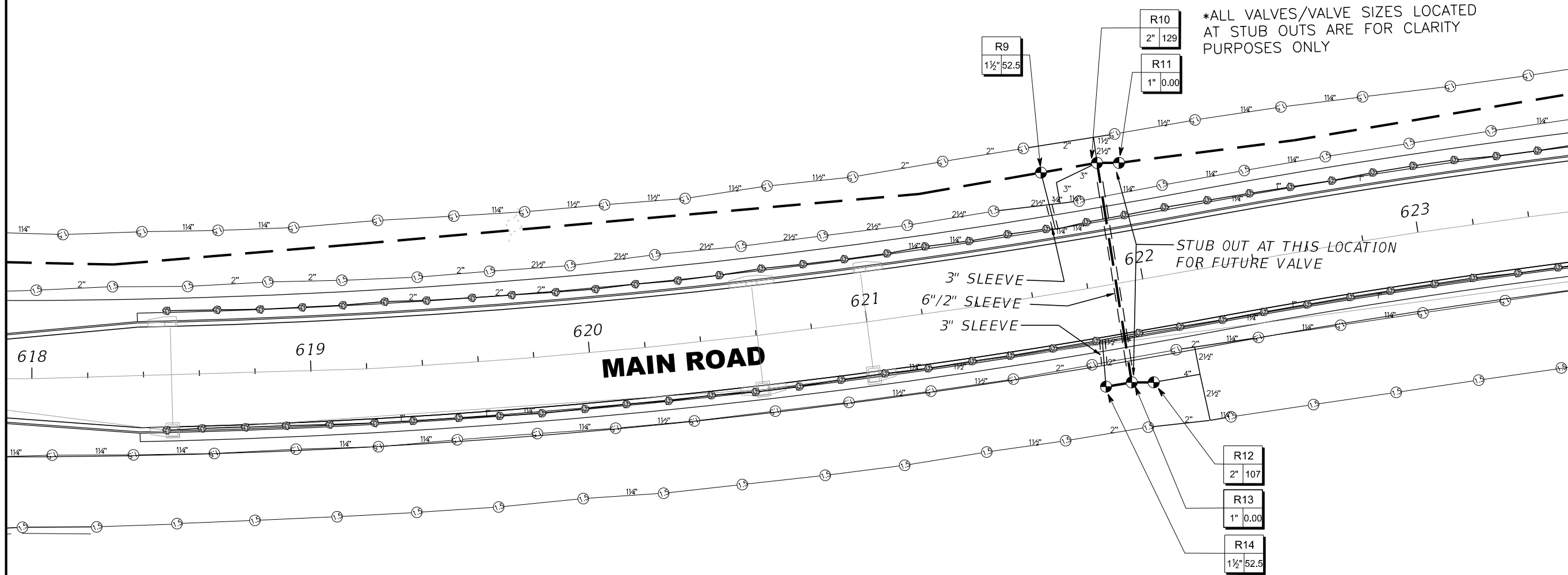


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DATE	DESCRIPTION	DATE	DESCRIPTION						LD-36
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				NA	POLK	437300-1-52-01			

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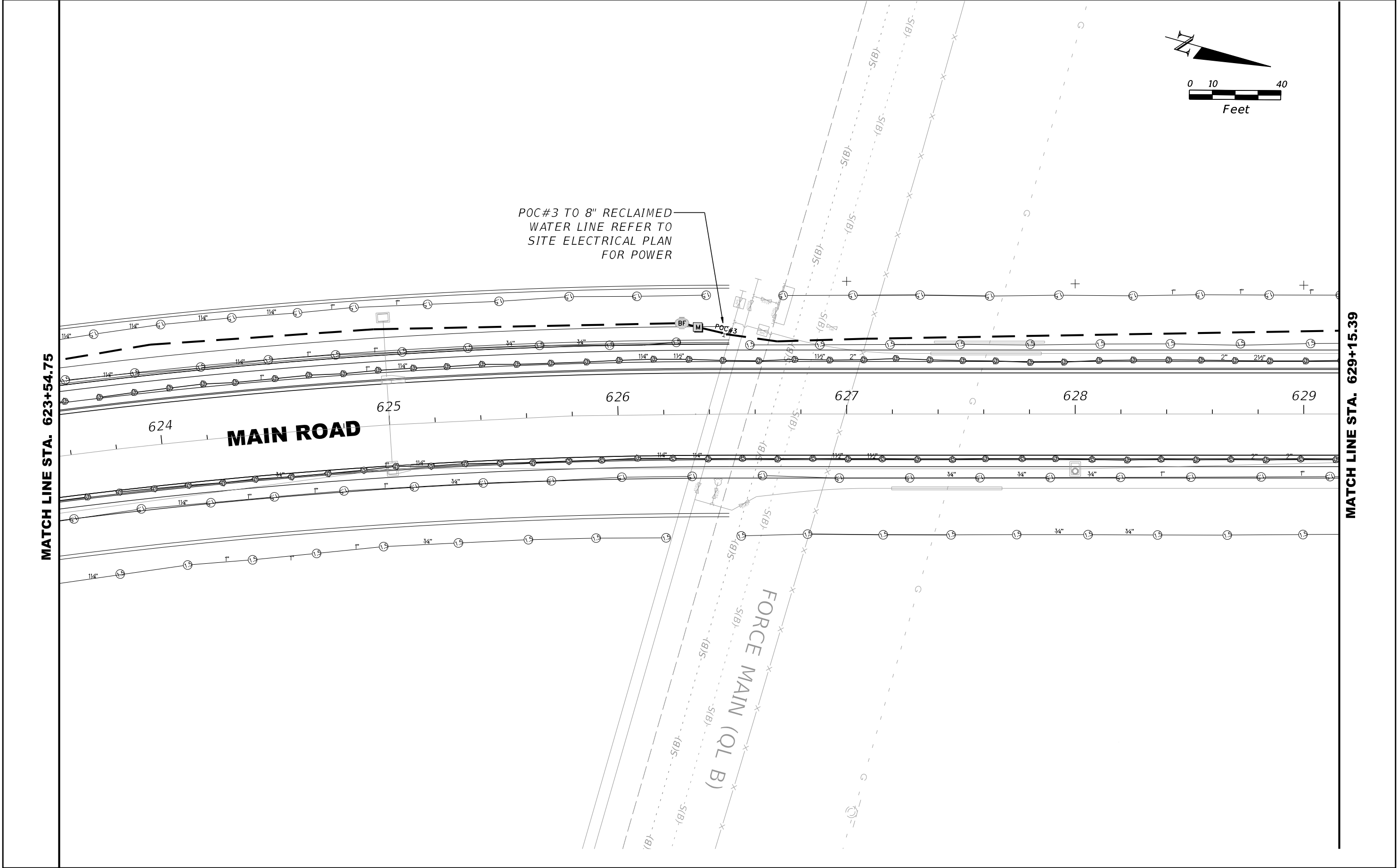
MATCH LINE STA. 617+90.73



MATCH LINE STA. 623+54.75

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DATE	DESCRIPTION	DATE	DESCRIPTION							LD-37
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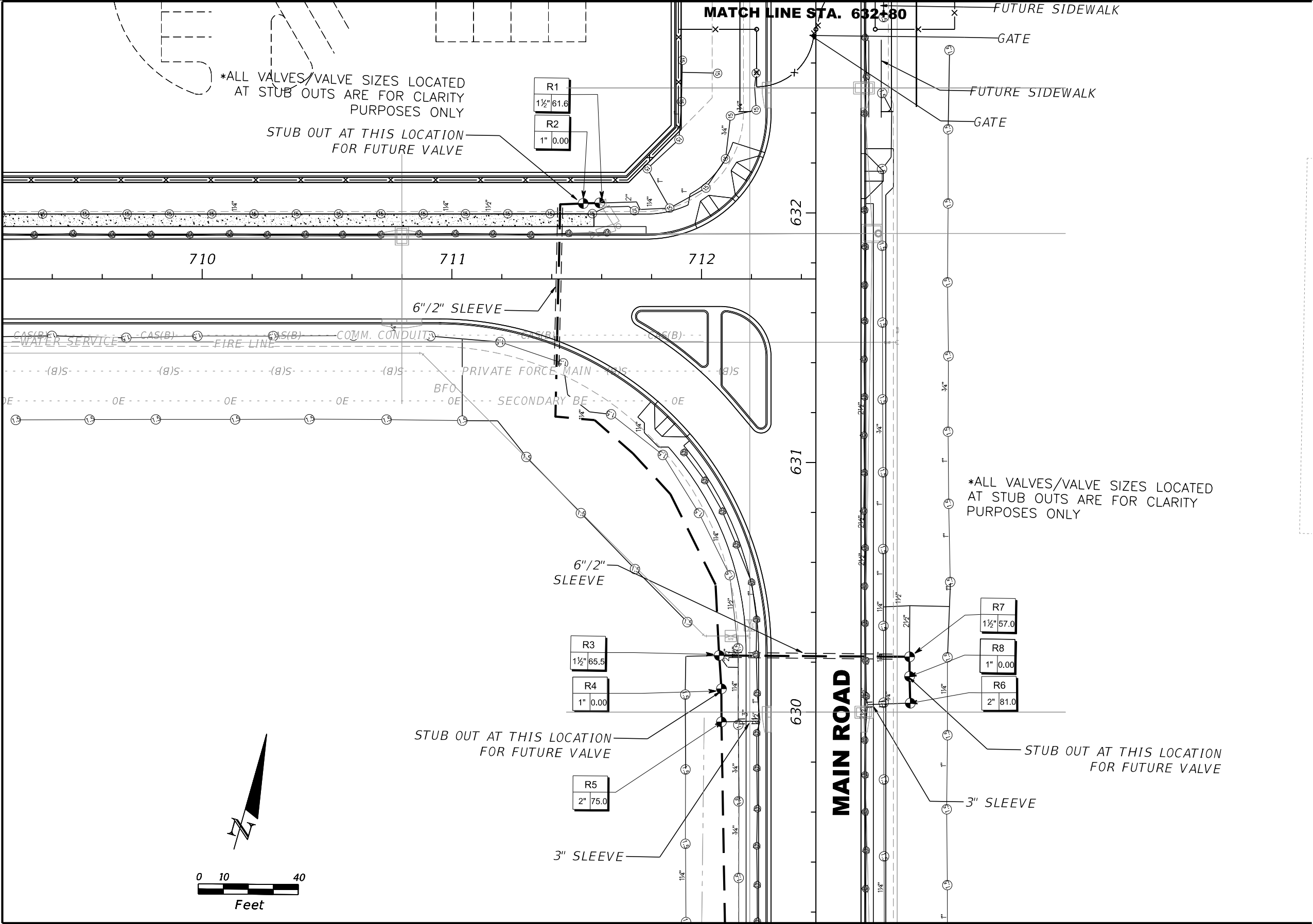
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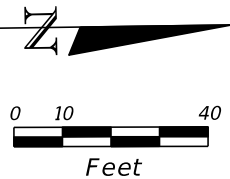
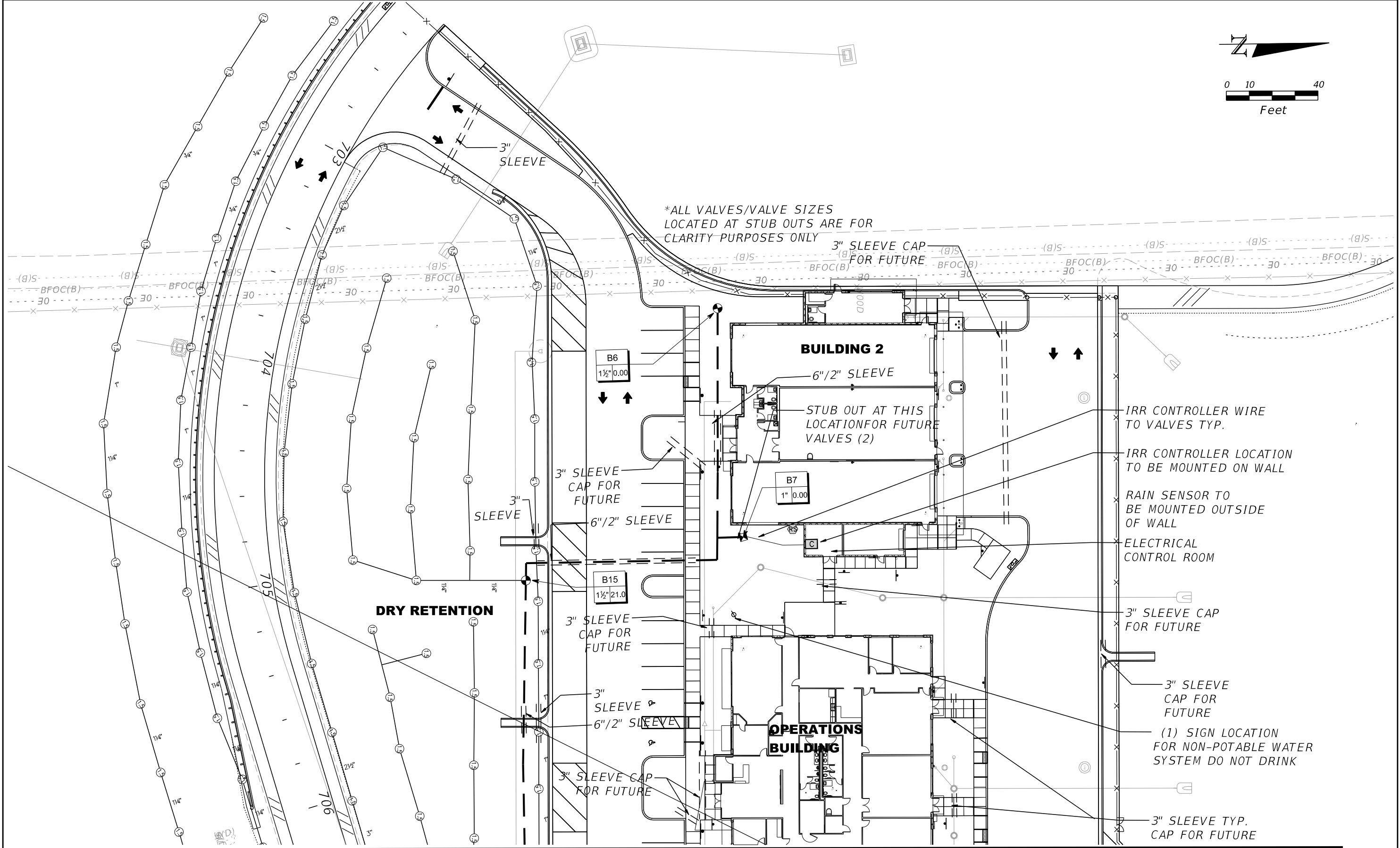
REVISIONS				Landscape Architect of Record: Brian R. Shore, RLA No. 6666770 MILLER LEGG 5747 North Andrews Way Fort Lauderdale, Florida 33309 954-436-7000 • www.millerlegg.com Certification of Auth.: LC0000337	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN ROADWAY		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION							LD-38
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MATCH LINE STA. 437 300-2-52-01



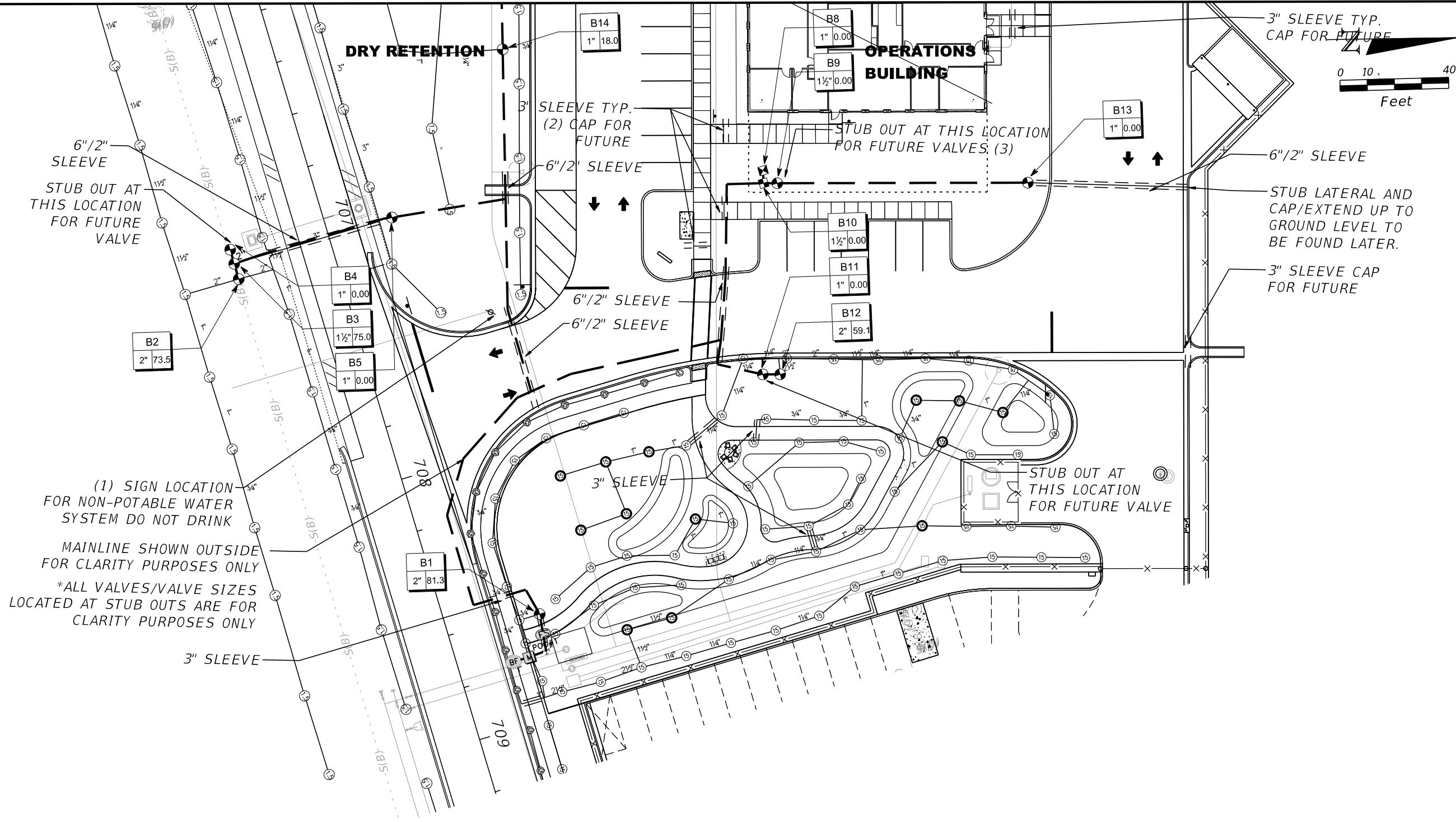
REVISIONS				Landscape Architect of Record: Brian R. Shore, RLA No. 6666770 MILLER LEGG 5747 North Andrews Way Fort Lauderdale, Florida 33309 954-436-7000 • www.millerlegg.com Certification of Auth.: LC0000337	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN ROADWAY		SHEET NO. LD-39
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					NA	POLK	437300-1-52-01			



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REVISIONS				Landscape Architect of Record: Brian R. Shore, RLA No. 6666770 MILLER LEGG 5747 North Andrews Way Fort Lauderdale, Florida 33309 954-436-7000 • www.millerlegg.com Certification of Auth.: LC0000337	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN OPERATIONS BUILDING		SHEET NO. LD-40
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					NA	POLK	4373001-52-01			

MATCH LINE STA. 706+16.89



(1) SIGN LOCATION
FOR NON-POTABLE WATER
SYSTEM DO NOT DRINK

MAINLINE SHOWN OUTSIDE
FOR CLARITY PURPOSES ONLY

*ALL VALVES/VALVE SIZES
LOCATED AT STUB OUTS ARE FOR
CLARITY PURPOSES ONLY

REVISIONS				Landscape Architect of Record: Brian R. Shore, RLA No. 6666770 MILLER LEGG 5747 North Andrews Way Fort Lauderdale, Florida 33309 954-436-7000 • www.millerlegg.com Certification of Auth.: LC0000337	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN OPERATIONS BUILDING		SHEET NO. LD-41
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					NA	POLK	437300-1-52-01			

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