PROPERTY REFERENCE:

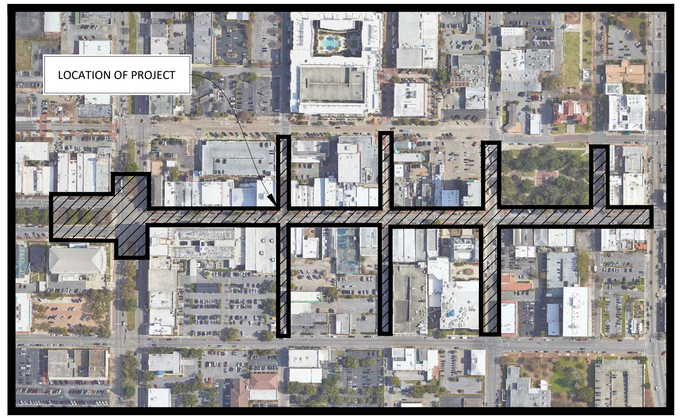
PROPERTY REFERENCE #:	TBD
ZONE:	NA
FLU:	NA
SITE ADDRESS:	S. PALAFOX PLACE, PENSACOLA, FL 32502
COUNTY:	ESCAMBIA

CLIENT:

CITY OF PENSACOLA
222 W. MAIN STREET, PENSACOLA, FL 32502

ABBREVIATIONS

ADJ	ADJUST
AGG	AGGREGATE
AMER	AMERICAN
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS
ASA	AMERICAN STANDARDS ASSOCIATION
AWG	AMERICAN WIRE GAUGE
APP	APPROVED
APPROX	APPROXIMATELY
ARCH	ARCHITECT/ARCHITECTURE
ARB	ARCHITECTURE REVIEW BOARD
AVG	AVERAGE
BFP	BACKFLOW PREVENTER
BOC	BOTTOM OF CURB
CB	CATCH BASIN
CL	CENTER LINE
CERT	CERTIFICATION
CL200	CLASS 200 PIPE
CAD	COMPUTER AIDED DESIGN
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CJ	CONTROL JOINT
CF	CUBIC FOOT/FEET
CU FT	CUBIC FOOT/FEET
DEG	DEGREE
DEMO	DEMOLISH/DEMOLITION
DIAG	DIAGONAL
DIAM	DIAMETER
DBH	"DIAM AT BREAST HT: 4'6" ABOVE GRADE"
DIM	DIMENSION/DIMENSIONING
DID	DOWNTOWN IMPROVEMENT DISTRICT
DWG	DRAWING
DIP	DUCTILE IRON PIPE
ELEV	ELEVATION
EQ	EQUAL/EQUALLY
EXG	EXISTING
EXP	EXPANSION
EJ	EXPANSION JOINT
F/S	FEET PER SECOND
FFE	FINISHED FLOOR ELEVATION
FT	FOOT
GAL	GALLON
GPM	GALLONS PER MINUTE
GRND	GROUND
HP	HIGH POINT
HV	HIGH VOLTAGE
HORZ	HORIZONTAL
HR	HOUR
IN	INCH/INCHES
IN/HR	INCHES PER HOUR
ID	INSIDE DIAMETER
ISO	INT ORG FOR STANDARDIZATION
INV	INVERT
J-BOX	JUNCTION BOX
KWH	KILOWATT HOUR
LA	LANDSCAPE ARCHITECT
LAT	LATERAL
LH	LEFT-HAND
LOC	LIMITS OF CONSTRUCTION
MAINT	MAINTENANCE
MH	MANHOLE
MFD	MANUFACTURED
MFR	MANUFACTURER
MFG	MANUFACTURING
MAT	MATERIAL
MAX	MAXIMUM
MED	MEDIUM
MEMB	MEMBRANE
MM	MILLIMETER
MIN	MINIMUM
NEC	NATIONAL ELECTRICAL CODE
NPT	NATIONAL PIPE TAPER
NOM	NOMINAL
NTS	NOT TO SCALE
OAE	OR APPROVED EQUAL
OC	ON CENTER(S)
OPP	OPPOSITE
ORIG	ORIGINAL
OD	OUTER DIAMETER
POC	POINT OF CONNECTION
POI	POINT OF INTERSECTION
PVC	POLYVINYL CHLORIDE
PSI	POUNDS PER SQUARE INCH
PRECIP	PRECIPITATION
QTY	QUANTITY
R	RADIUS
REF	REFERENCE
REV	REVISION
ROW	RIGHT-OF-WAY
RH	RIGHT-HAND
SCH	SCHEDULE
SCH40	SCHEDULE 40 POLYVINYL CHLORIDE
SCH80	SCHEDULE 80 POLYVINYL CHLORIDE
SIM	SIMILAR
SPEC	SPECIFICATION
SS	STAINLESS STEEL
STD	STANDARD
STA	STATION
SYM	SYMMETRICAL
TB	TITLE BLOCK
TOC	TOP OF CURB
TYP	TYPICAL
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
W/O	WITHOUT
WI	WROUGHT IRON
YD	YARD
YR	YEAR



VICINITY MAP

NOT TO SCALE

SIGNATURE BLOCK

LANDSCAPE ARCHITECT OF RECORD:

JERRY PATE DESIGN, INC
BRAD ALEXANDER, RLA, CID

FL:	LA6667399
GA:	LA001795
MS:	LA671
CID:	113188 IRRIGATION ASSOCIATION

REGISTERED LANDSCAPE ARCHITECT
BRAD ALEXANDER
LA6667399
STATE OF FLORIDA
INVALID WITHOUT SIGNATURE

CONSTRUCTION DOCUMENT GENERAL NOTES:

1. SEE ACCOMPANYING SPECIFICATIONS
2. ALL PLANTS, MATERIALS, HARDSCAPE AND WORKMANSHIP ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT. SUBSTITUTIONS OR ADJUSTMENTS SHALL BE CONSIDERED UNAPPROVED UNLESS IN WRITING BY LANDSCAPE ARCHITECT.
3. ALL UNAPPROVED FIELD CHANGES, ADJUSTMENTS AND SUBSTITUTIONS SHALL BE CONSIDERED UNAPPROVED THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. ALL UTILITIES SHALL BE ACCURATELY LOCATED PRIOR TO CONSTRUCTION BY THE CONTRACTOR.
5. LANDSCAPE PLANS SHALL BE USED IN CONJUNCTION WITH ENGINEERING CONSTRUCTION DOCUMENTS.
6. ALL STORMWATER, SUBSURFACE UTILITIES SHALL REFERENCE ENGINEERING CONSTRUCTION DOCUMENTS.
7. CONTRACTOR SHALL REFERENCE ENGINEERING CONSTRUCTION DOCUMENTS FOR EXISTING CONDITIONS, SURVEY, DEMOLITION & ALL OTHER SITE IMPROVEMENTS WHICH FALL OUTSIDE THE SCOPE OF LANDSCAPE ARCHITECTURE CONSTRUCTION DOCUMENTS.

STANDARD OF DESIGN

WHERE MATERIALS OR EQUIPMENT ARE SPECIFIED BY A TRADE OR BRAND NAME, IT IS NOT THE INTENTION OF THE OWNER TO DISCRIMINATE AGAINST AN EQUAL PRODUCT; ANOTHER MANUFACTURER, BUT RATHER TO SET A DEFINITE STANDARD OF DESIGN AND PERFORMANCE.

WHENEVER A MATERIAL OR ARTICLE REQUIRED IS SPECIFIED OR SHOWN ON THE PLANS BY USING THE NAME OF THE PROPRIETARY PRODUCT OR A PARTICULAR MANUFACTURER OR VENDOR, ANY MATERIAL OR ARTICLE WHICH WILL PERFORM THE DUTIES IMPOSED BY THE DESIGN AND SPECIFICATIONS MAY BE CONSIDERED EQUAL AND SATISFACTORY PROVIDING THE MATERIALS OR THE ARTICLE SO PROPOSED IS OF EQUAL SUBSTANCE AND FUNCTION IN THE LANDSCAPE ARCHITECT'S AND OWNER'S OPINION. SUBSTITUTED MATERIAL SHALL NOT BE PURCHASED OR INSTALLED WITHOUT THE LANDSCAPE ARCHITECT'S AND OWNER'S WRITTEN APPROVAL.

ANY REQUEST FOR APPROVAL OF A DIFFERENT MATERIAL OR ARTICLE THAN THAT SPECIFIED BY NAME SHALL BE ACCOMPANIED BY SAMPLES, COMPLETE RECORD OF PERFORMANCE, CERTIFIED COPIES OF TEST AND/OR ANY ANALYSES MADE BY IMPARTIAL RECOGNIZED LABORATORIES, OR SUCH ADDITIONAL INFORMATION AS THE LANDSCAPE ARCHITECT AND OWNER MAY REASONABLY REQUEST. FOR CONSIDERATION OF A PROPOSED EQUAL MATERIAL, THE CONTRACTOR SHALL FURNISH THE DATA TO THE LANDSCAPE ARCHITECT AND OWNER AT LEAST 10 DAYS PRIOR TO THE DATE OF THE BID OPENING. IF, IN THE OPINION OF THE LANDSCAPE ARCHITECT AND OWNER, THE DATA SUBMITTED SHOWS THE MATERIAL TO BE EQUAL TO THAT SPECIFIED, THE BIDDING CONTRACTORS SHALL BE NOTIFIED NOT LESS THAN 7 DAYS PRIOR TO THE BID OPENING DATE.

ANY REQUEST FOR APPROVAL OF A DIFFERENT MATERIAL OR ARTICLE THAN THAT SPECIFIED BY NAME SHALL BE ACCOMPANIED BY SAMPLES, COMPLETE RECORD OF PERFORMANCE, CERTIFIED COPIES OF TEST AND/OR ANY ANALYSES MADE BY IMPARTIAL RECOGNIZED LABORATORIES, OR SUCH ADDITIONAL INFORMATION AS THE LANDSCAPE ARCHITECT MAY REASONABLY REQUEST. SUCH SAMPLES AND DATA SHALL BE FURNISHED SUFFICIENTLY IN ADVANCE TO ALLOW REASONABLE TIME FOR INVESTIGATION OF THE PROPOSED SUBSTITUTION BEFORE A DECISION MUST BE MADE.

LANDSCAPE ARCHITECTURE - SHEET INDEX

Sheet Number	Sheet Title
L0.01	COVER SHEET
L0.02	PHASE KEY MAP
L0.03	HARDSCAPE KEY MAP
L0.04	LANDSCAPE KEY MAP
L0.05	IRRIGATION KEY MAP
PHASE A	
L1.11	PHASE A - HARDSCAPE PLAN
L1.12	PHASE A - HARDSCAPE INSETS
L1.21	PHASE A - LANDSCAPE PLAN
L1.31	PHASE A - IRRIGATION PLAN
PHASE B	
L2.11	PHASE B - HARDSCAPE PLAN
L2.12	PHASE B - HARDSCAPE INSETS
L2.21	PHASE B - LANDSCAPE PLAN
L2.31	PHASE B - IRRIGATION PLAN
PHASE C	
L3.11	PHASE C - HARDSCAPE PLAN
L3.12	PHASE C - HARDSCAPE INSETS
L3.21	PHASE C - LANDSCAPE PLAN
L3.31	PHASE C - IRRIGATION PLAN
PHASE D	
L4.11	PHASE D - HARDSCAPE PLAN
L4.12	PHASE D - HARDSCAPE INSETS
L4.21	PHASE D - LANDSCAPE PLAN
L4.31	PHASE D - IRRIGATION PLAN
PHASE E	
L5.11	PHASE E - HARDSCAPE PLAN
L5.21	PHASE E - LANDSCAPE PLAN
L5.31	PHASE E - IRRIGATION PLAN
PHASE F	
L6.11	PHASE F - HARDSCAPE PLAN
L6.21	PHASE F - LANDSCAPE PLAN
L6.31	PHASE F - IRRIGATION PLAN
PHASE G	
L7.11	PHASE G - HARDSCAPE PLAN
L7.21	PHASE G - LANDSCAPE PLAN
L7.31	PHASE G - IRRIGATION PLAN
PHASE H	
L8.11	PHASE H - HARDSCAPE PLAN
L8.12	PHASE H - HARDSCAPE INSETS
L8.13	PHASE H - HARDSCAPE INSETS
L8.21	PHASE H - LANDSCAPE PLAN
L8.31	PHASE H - IRRIGATION PLAN
DETAILS	
L9.01	HARDSCAPE DETAILS
L9.02	HARDSCAPE DETAILS
L9.03	FURNISHING DETAILS
L9.04	LANDSCAPE DETAILS
L9.05	LANDSCAPE DETAILS
L9.06	IRRIGATION DETAILS
L9.07	IRRIGATION DETAILS
SPECIFICATIONS	
L10.0	SPECIFICATIONS INDEX
L10.1	04 20 00 UNIT MASONRY
L10.2	04 20 00 UNIT MASONRY-CONT
L10.3	04 42 00 EXTERIOR STONE CLADDING
L10.4	04 42 00 EXTERIOR STONE CLADDING-CONT
L10.5	04 72 00 CAST STONE MASONRY
L10.6	10 14 16 PLAQUES
L10.7	12 93 00 SITE FURNISHINGS
L10.8	32 01 00 LANDSCAPE MAINT. & ESTABLISHMENT
L10.9	32 14 00 UNIT PAVING
L10.10	32 17 26 TACTILE WARNING SURFACING
L10.11	32 31 19 DECORATIVE METAL FENCING
L10.12	32 84 00 PLANTING IRRIGATION
L10.13	32 84 00 PLANTING IRRIGATION-CONT
L10.14	32 91 13 SOIL PREPARATION
L10.15	32 93 00 PLANTS
L10.16	32 93 00 PLANTS-CONT

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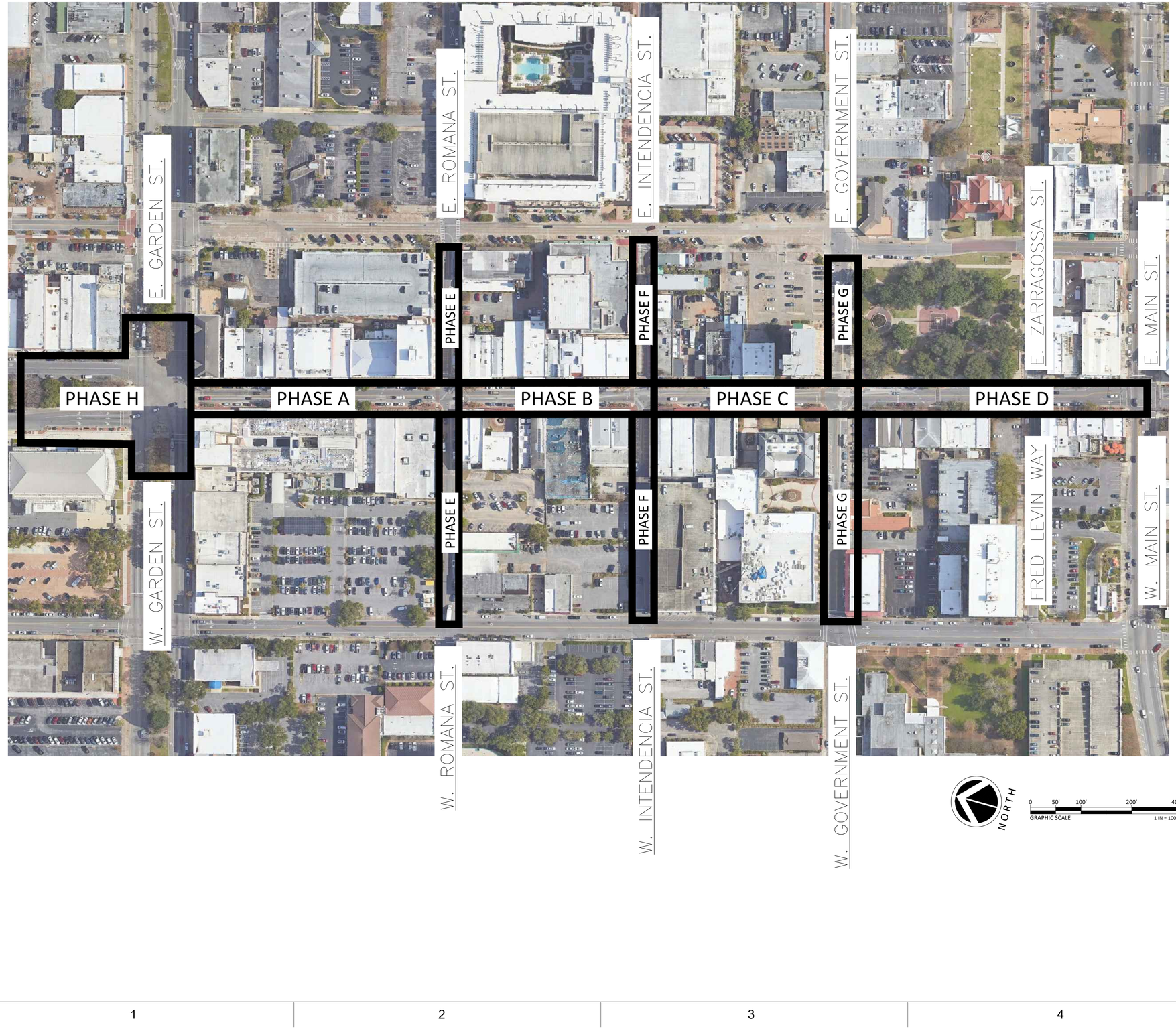
COVER SHEET

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012
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DATE: 08/29/2025
SHEET NO.: L0.01

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LANDSCAPE ARCHITECTURE - PHASE INDEX	
Sheet Number	Sheet Title
PHASE A	
L1.11	PHASE A - HARDSCAPE PLAN
L1.12	PHASE A - HARDSCAPE INSETS
L1.21	PHASE A - LANDSCAPE PLAN
L1.31	PHASE A - IRRIGATION PLAN
PHASE B	
L2.11	PHASE B - HARDSCAPE PLAN
L2.12	PHASE B - HARDSCAPE INSETS
L2.21	PHASE B - LANDSCAPE PLAN
L2.31	PHASE B - IRRIGATION PLAN
PHASE C	
L3.11	PHASE C - HARDSCAPE PLAN
L3.12	PHASE C - HARDSCAPE INSETS
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L4.12	PHASE D - HARDSCAPE INSETS
L4.21	PHASE D - LANDSCAPE PLAN
L4.31	PHASE D - IRRIGATION PLAN
PHASE E	
L5.11	PHASE E - HARDSCAPE PLAN
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PHASE F	
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L6.21	PHASE F - LANDSCAPE PLAN
L6.31	PHASE F - IRRIGATION PLAN
PHASE G	
L7.11	PHASE G - HARDSCAPE PLAN
L7.21	PHASE G - LANDSCAPE PLAN
L7.31	PHASE G - IRRIGATION PLAN
PHASE H	
L8.11	PHASE H - HARDSCAPE PLAN
L8.12	PHASE H - HARDSCAPE INSETS
L8.13	PHASE H - HARDSCAPE INSETS
L8.21	PHASE H - LANDSCAPE PLAN
L8.31	PHASE H - IRRIGATION PLAN

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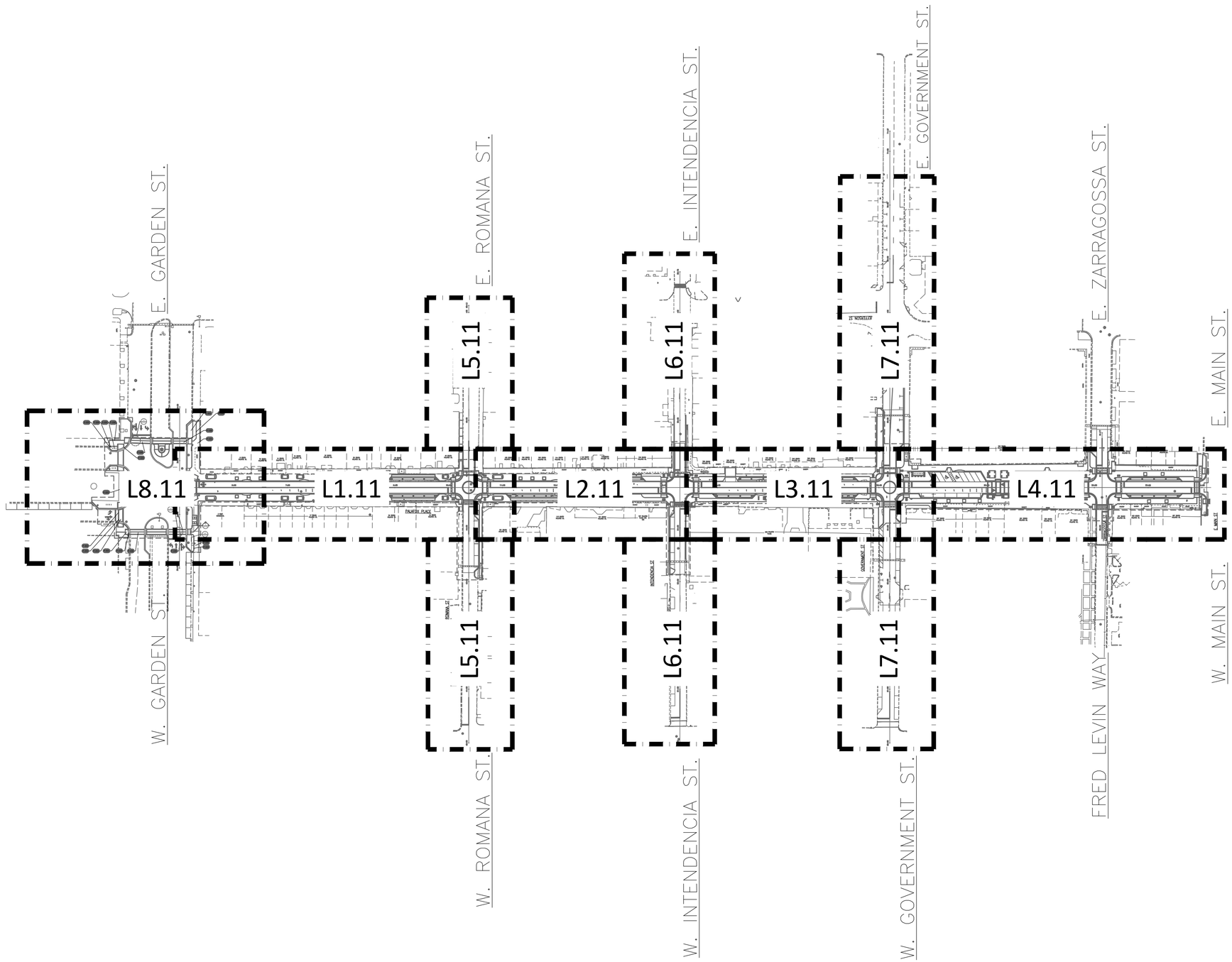
PHASE KEY MAP

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012
DRAWN BY: EH
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SHEET NO.: L0.02

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REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION	QTY	DETAIL
02 Existing Conditions				
	02-01	"VISIT PENSACOLA" DIGITAL SIGN TO BE RELOCATED	11 LF	
Civil Sitework				
	C-101	ASPHALT - SEE CIVIL	56,842 SF	
General Sitework				
	G-101	PALAFOX PLANTER	454 LF	2/L9.03
Landscape				
	L-101	PROPOSED LANDSCAPE AREA - SEE PLANTING PLAN	11,472 SF	1/L9.04
Planters				
004	L-201	WALLOWA DESIGN - HCMP002-BLK - 14X14X30H	40	2/L9.05
HCMP002	L-202	WALLOWA DESIGN - HCMP004-BLK - 38X15X15H	74	2/L9.05
Paving				
	P-101	PEDESTRIAN FIELD PAVER - GLEN GARY-IRON CITY-FULL RANGE 4X8X2 ¼ (OAE)-HERRINGBONE	44,570 SF	2/L9.02
	P-102	PEDESTRIAN PAVER BORDER - GLEN GARY-IRON CITY-FULL RANGE 4 X8X2 ¼ (OAE)- SOLDIER CORSE	6,999 SF	3/L9.02
	P-103	HARDSCAPES USA -BREMEN ADA X8X2 3/8- 'MAIZE' SOLID COLOR BASKET WEAVE PATTERN (OAE)	1,962 SF	5/L9.02
	P-104	ARTISTIC PAVERS-GRANITELOCK 12X12X1 5/8-ARCTIC WHITE & STERLING GRAY (OAE)-ALTERNATE CHECKERBOARD	604 SF	
	P-105	ARTISTIC PAVERS-GRANITELOCK 12X12X1 5/8-STEARLING GRAY(OAE) RUNNING BOND BOARDER	84 SF	
	P-106	STREETBOND DECORATIVE COATING -SEE DETAIL FOR FDOT CROSSWALK	941 SF	12/L9.01
Vehicular Paver				
	P-201	VEHICULAR FIELD PAVER - GLEN GARY-IRON CITY-FULL RANGE 4 X 8 X 2 3/4 (OAE)-HERRINGBONE	11,802 SF	7/L9.01
	P-202	BELGARD - CHARLESTONE - 3 PIECE RUNNING BOND - PERPENDICLUAR TO PALAFOX CENTERLINE- 'TITANIUM COLOR'	2,093 SF	11/L9.01
	P-205	VEHICULAR PAVER - GLEN GARY-IRON CITY- FULL RANGE 4 X 8 X 2 3/4 (OAE)- SOLDIER CORSE	2,834 SF	7/L9.01
	P-206	A1S TRAIL	2,371 LF	1/L9.01
	P-207	BELGARD-CHARLESTONE-3PIECE RUNNING BOND- 6X12"- PERPENDICULAR TO PALAFOX CENTER LINE- 'TITANIUM COLOR'	222 SF	
Concrete				
	P-301	PEDESTRIAN CONCRETE - PER CIVIL	3,406 SF	
	P-302	VEHICULAR CONCRETE - PER CIVIL	6,515 SF	
Site Furnishings				
	S-101	BIKE RACK: LS FORMS - RING - STAINLESS STEEL - EMBEDDED (OAE)	22	3/L9.03
	S-102	LITTER RECEPTACLE: LS FORMS - PLAINWELL - BLACK GLOSS - SIDE OPENING (OAE)	34	5/L9.03
	S-103	BENCH: LS FORMS - PLAINWELL - BLACK GLOSS - IPE - 72" W CENTER DIVIDER (OAE)	18	4/L9.03

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NORTH

GRAPHIC SCALE
0 5' 100' 200'
1 IN = 100 FT

THE NEW PALAFOX
S. PALAFOX STREET, PENSACOLA FL 32502

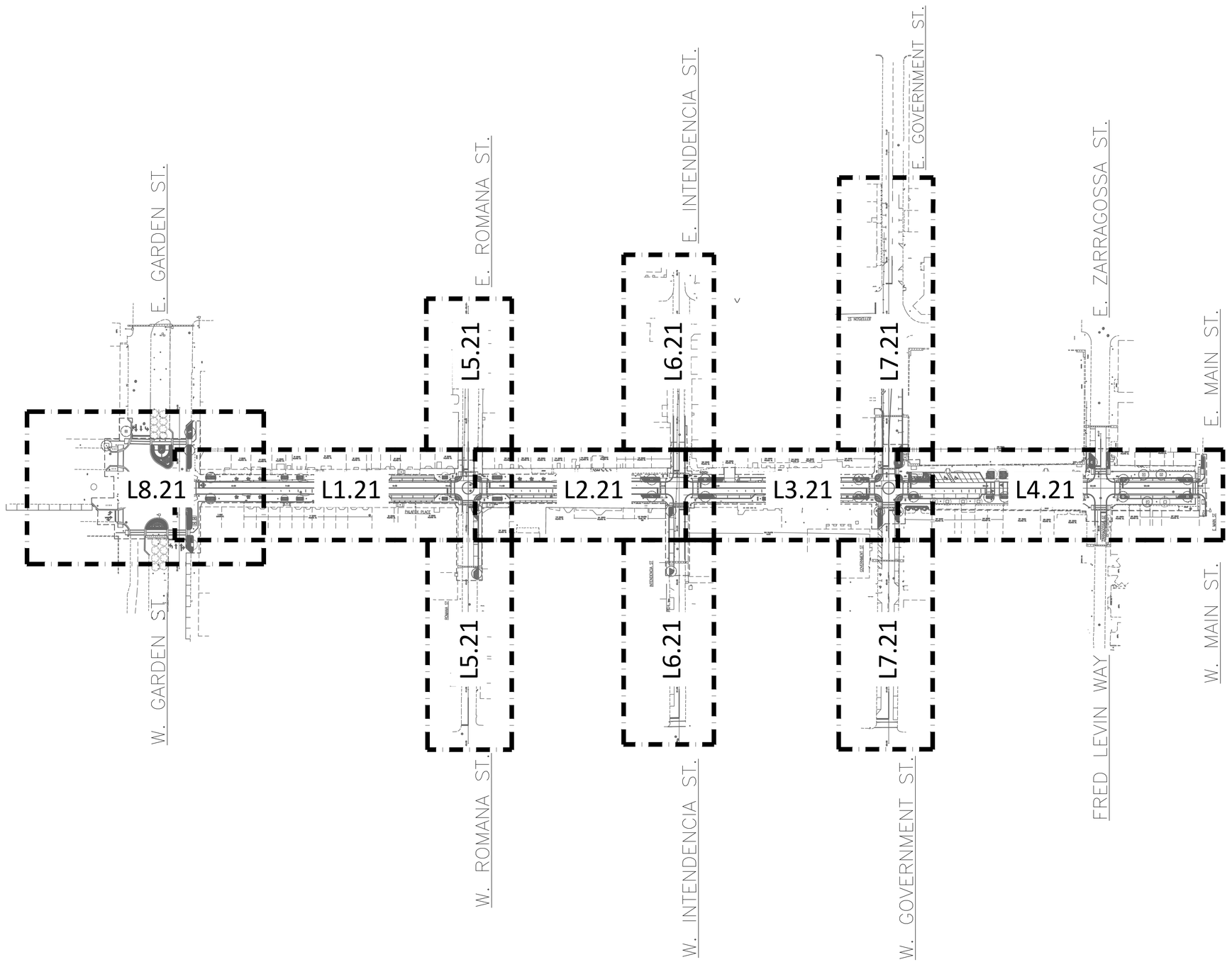
HARDSCAPE KEY MAP

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PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	SIZE
TREES				
	IC	3	ILEX CASSINE DAHOON HOLLY - TREE FORM	3" DBH
	QV	28	QUERCUS VIRGINIANA SOUTHERN LIVE OAK	3" DBH
	SS	12	SABAL PALMETTO CABBAGE PALMETTO	18` CT
	UB2	13	ULMUS PARVIFOLIA 'BOSQUE' BOSQUE® LACEBARK ELM	3" DBH
EXISTING TO REMAIN				
	ERM	4	ACER RUBRUM RED MAPLE	VARIES
	EAR	13	ILEX X ATTENUATA EAST PALATKA HOLLY	VARIES
	ELI	25	LAGERSTROEMIA INDICA CRAPE MYRTLE	VARIES
	EQV	2	QUERCUS VIRGINIANA SOUTHERN LIVE OAK	VARIES
	EUB	5	ULMUS PARVIFOLIA 'BOSQUE' BOSQUE® LACEBARK ELM	VARIES

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	SPACING
SHRUBS					
	CN	29	CENCHRUS SETACEUS 'RUBRUM' PURPLE FOUNTAIN GRASS	3 GAL	36" o.c.
	LE	2,617	LIRIOPE MUSCARI EMERALD GODDESS® LILYTURF	3 GAL	18" o.c.
	MC	24	MUHLENBERGIA CAPILLARIS PINK MUHLY GRASS	3 GAL	36" o.c.
GROUND COVERS					
	A7	596 SF	ANNUALS	4" POT	
	RM	266 SF	EPOXY BOUND RUBBER MULCH - BROWN	MULCH	
	TA	1,028	TRACHELOSPERMUM ASIATICUM ASIATIC JASMINE	1 GAL	18" o.c.

NOTE: ALL EXISTING TREE GRATES SHALL BE REMOVED FROM TREE WELLS AND REPLACED WITH EPOXY BOUND RUBBER MULCH AS SPECIFIED.

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NORTH

1 IN = 100 FT
GRAPHIC SCALE
0 5' 100' 200'

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S. PALAFOX STREET, PENSACOLA FL 32502

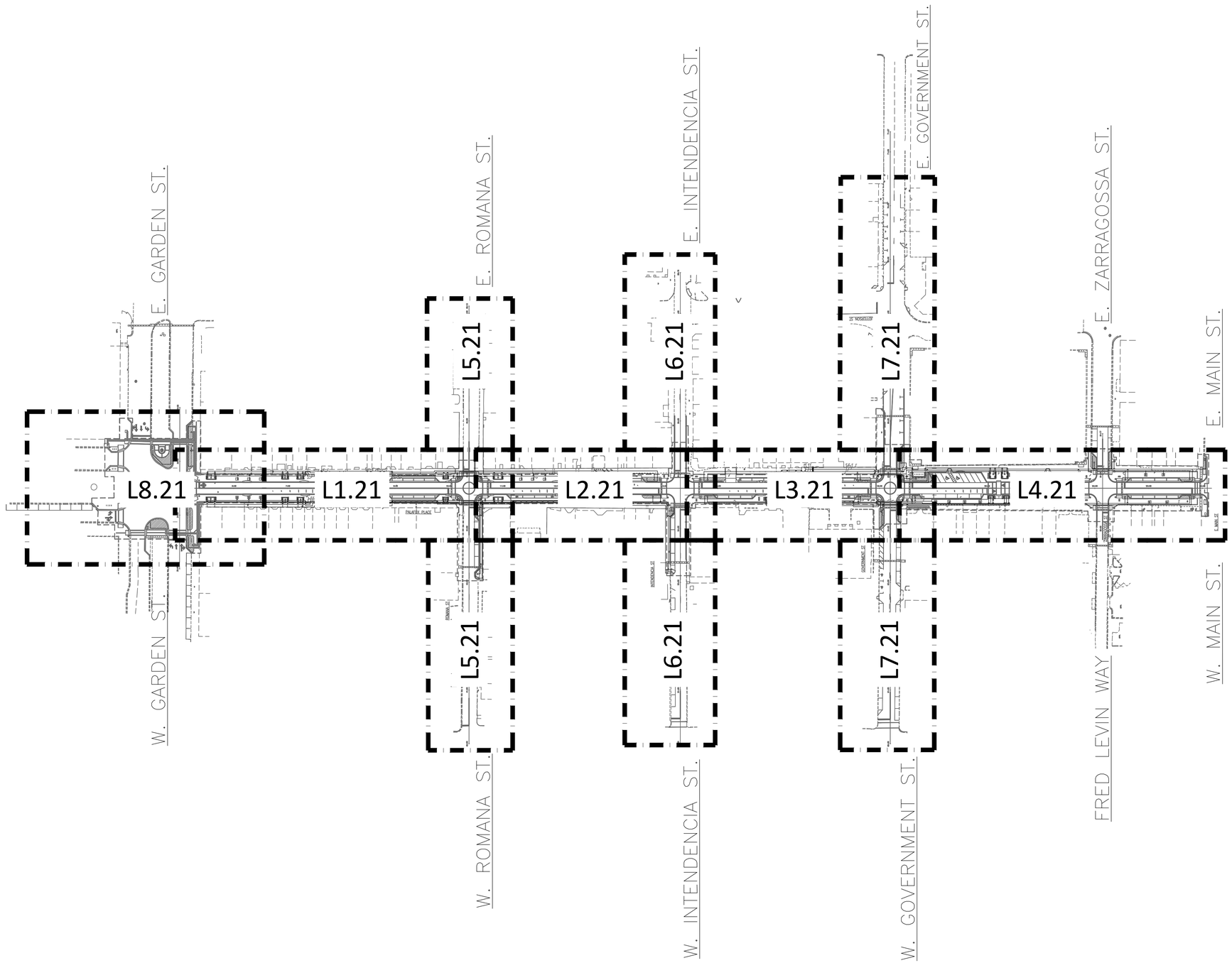
LANDSCAPE KEY MAP

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IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	GPM	DETAIL
	RAIN BIRD 1800-1400 FLOOD 1402 FIXED FLOW RATE 0.25 GPM - 2.0 GPM, FULL CIRCLE BUBBLER, 1/2" FIPT.	86	50	0.5	3/L9.06

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	DETAIL
	RAIN BIRD XCZ-150-LCS 1-1/2" HIGH FLOW CONTROL ZONE KIT, FOR LARGE COMMERCIAL DRIP ZONES. 1-1/2" PEB GLOBE VALVE WITH SINGLE 1-1/2" PRESSURE REGULATING 40PSI QUICK-CHECK BASKET FILTER. FLOW RANGE: 15-62 GPM.	4		2/L9.07
90 180 360	RAIN BIRD XERI-SPRAY - SINGLE HEAD ADJUSTABLE FLOW/RADIUS, 10-32 SELF-TAPPING THREADED INLET. IDEAL FOR GROUND COVER, MASS PLANTINGS, ANNUAL FLOWER BEDS AND CONTAINERS.	154	20	1/L9.06
90 180 360	RAIN BIRD XERI-SPRAY - VERADECK PLANTER ADJUSTABLE FLOW/RADIUS, 10-32 SELF-TAPPING THREADED INLET. IDEAL FOR GROUND COVER, MASS PLANTINGS, ANNUAL FLOWER BEDS AND CONTAINERS.	188	20	
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFDE-06-24 XFDE ON-SURFACE PRESSURE COMPENSATING LANDSCAPE DRIPLINE. 0.6 GPH EMITTERS AT 18IN. O.C. DRIPLINE LATERALS SPACED AT RR APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. UV & KINK RESISTANT. USE XF INSERT FITTINGS.	3,891 LF	30	1/L9.07

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	DETAIL
	RAIN BIRD PEB 1-1/2" 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.	12	4/L9.06
	MAINLINE ISOLATION VALVE 2" BRONZE GATE VALVE - CLASS 125 - CROSS HANDLE NON-RISING STEM-200 PSI. THREADED END CONNECTIONS WITH ADAPTERS TO HDPE MAINLINE.	6	7/L9.07
A	DRIP AIR RELIEF VALVE	8	5/L9.07
D	DRIP DRAIN VALVE	8	4/L9.07
C	RAIN BIRD ESPLXIVM-LXMM 60 STATION, 2-WIRE CONTROLLER W/ SMART VALVE TECHNOLOGY. (1) ESPLXIVM 60-STATION, INDOOR/OUTDOOR, PLASTIC WALL-MOUNT ENCLOSURE. INSTALLED IN LXMM POWDER COATED, METAL WALL-MOUNTED CABINET. SYSTEM REQUIREMENTS: RAIN BIRD LXIVM-XXX INTEGRATED VALVE MODULES & 2-WIRE DEVICES. GROUND SYSTEM W/ (X) LXIVMSD SURGE DEVICE IN RAIN BIRD ROUND VALVE BOXES. INSTALL PER MANUFACTURERS RECOMMENDATIONS.	1	8/L9.07
RFS	RAIN BIRD WR2-RFS WIRELESS RAIN/FREEZE SENSOR.	1	9/L9.07
M1	EXISTING ECUA METER EXISTING ECUA METER SHALL BE PRESERVED. A NEW DUCTILE IRON VALVE BOX AND LID SHALL BE INSTALLED. NEW DOUBLE CHECK VALVE BACKFLOW DEVICE SHALL BE INSTALLED BELOW GRADE IN A NEW DUCTILE IRON VALVE BOX PER LOCAL CODES.	1	
M2	EXISTING ECUA METER EXISTING ECUA METER SHALL BE PRESERVED. A NEW DUCTILE IRON VALVE BOX AND LID SHALL BE INSTALLED. NEW DOUBLE CHECK VALVE BACKFLOW DEVICE SHALL BE INSTALLED BELOW GRADE IN A NEW DUCTILE IRON VALVE BOX PER LOCAL CODES.	1	
	IRRIGATION LATERAL LINE: HDPE PE4710 DR 11 1"	16,356 LF		
	IRRIGATION LATERAL LINE: HDPE PE4710 DR 11 2"	386.7 LF		
	IRRIGATION MAINLINE: HDPE PE4710 DR 11 2"	158.8 LF		
	PIPE SLEEVE: PVC SCHEDULE 40	585.8 LF		

Valve Callout
- Valve Number
- Valve Flow
- Valve Size

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	PSI	PSI @ POC	PRECIP
1	RAIN BIRD PEB	1-1/2"	BUBBLER	11	55.7		1.7 in/h
2	RAIN BIRD XCZ-150-LCS	1-1/2"	AREA FOR DRIPLINE	5.73	36.9		0.32 in/h
3	RAIN BIRD PEB	1-1/2"	DRIP EMITTER	20.42	31.9		1.22 in/h
4	RAIN BIRD PEB	1-1/2"	DRIP EMITTER	24.5	31.3		0.63 in/h
5	RAIN BIRD PEB	1-1/2"	BUBBLER	11.5	57.9		1.7 in/h
6	RAIN BIRD XCZ-150-LCS	1-1/2"	AREA FOR DRIPLINE	6.32	36.5		0.32 in/h
7	RAIN BIRD PEB	1-1/2"	DRIP EMITTER	22.86	32.0		1.11 in/h
8	RAIN BIRD PEB	1-1/2"	DRIP EMITTER	24.5	30.6		0.63 in/h
9	RAIN BIRD PEB	1-1/2"	BUBBLER	7.5	56.9		1.7 in/h
10	RAIN BIRD XCZ-150-LCS	1-1/2"	AREA FOR DRIPLINE	8.78	38.4		0.32 in/h
11	RAIN BIRD PEB	1-1/2"	DRIP EMITTER	8.98	25.8		0.98 in/h
12	RAIN BIRD PEB	1-1/2"	DRIP EMITTER	16.33	33.8		0.84 in/h
13	RAIN BIRD PEB	1-1/2"	BUBBLER	13	60.9		1.7 in/h
14	RAIN BIRD XCZ-150-LCS	1-1/2"	AREA FOR DRIPLINE	5.44	36.0		0.32 in/h
15	RAIN BIRD PEB	1-1/2"	DRIP EMITTER	10.62	25.7		1.13 in/h
16	RAIN BIRD PEB	1-1/2"	DRIP EMITTER	11.43	25.3		0.63 in/h

NOTE:
1. ALL ISOLATION VALVES & REMOTE CONTROL VALVES SHALL BE PLACED IN LANDSCAPE BEDS WHERE POSSIBLE.
2. NO VALVES SHALL BE INSTALLED IN ROADWAY.
3. PIPING SHOWN OUTSIDE PROJECT BOUNDARY FOR VISUAL CLARITY, ALL PIPING AND VALVES SHALL BE INSTALLED WITHIN PROJECT LIMITS.

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NORTH

GRAPHIC SCALE
0 5' 100' 200'
1 IN = 100 FT

THE NEW PALAFOX
S. PALAFOX STREET, PENSACOLA FL 32502

IRRIGATION KEY MAP

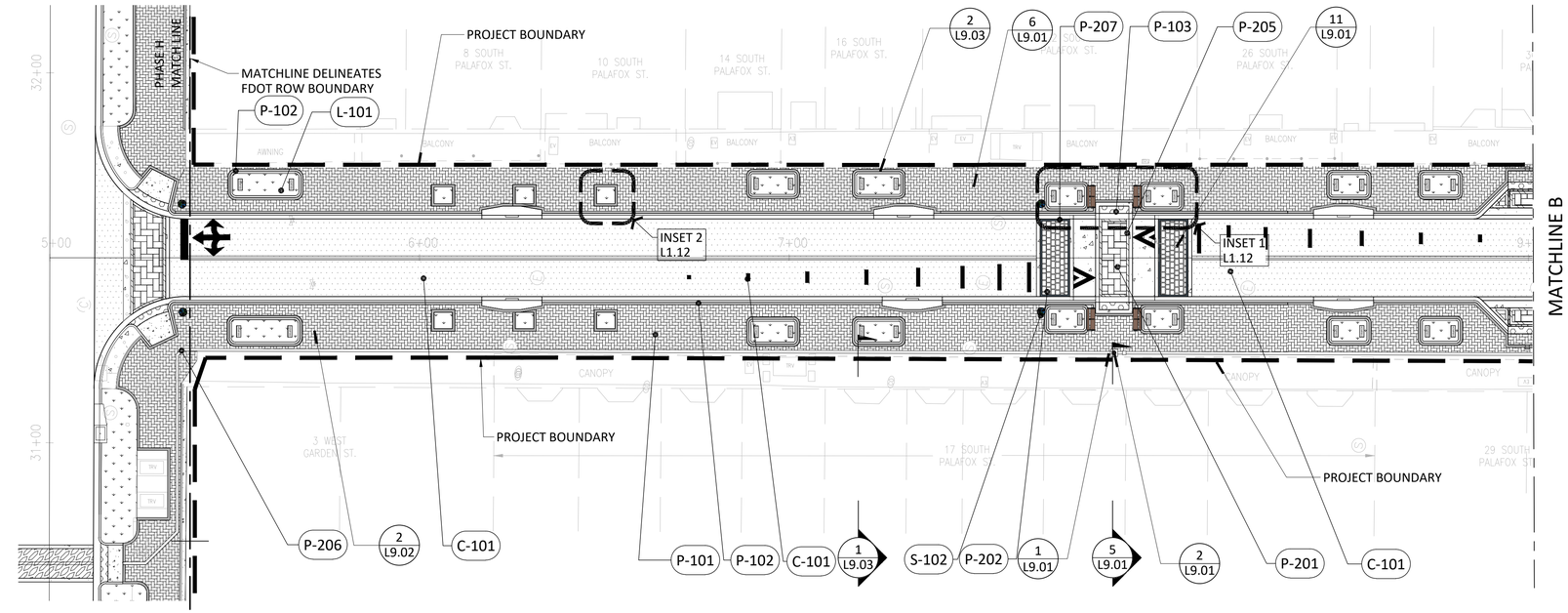
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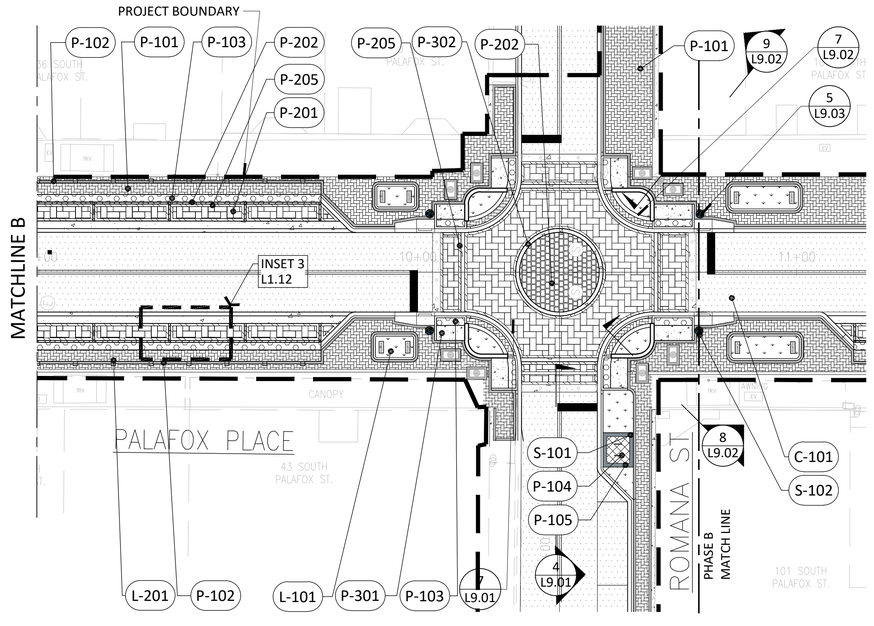
REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012
DRAWN BY: EH
CHECKED BY: BA
DATE: 08/29/2025
SHEET NO.: L0.05

100% CONSTRUCTION DOCUMENTS - NOT FOR CONSTRUCTION

NOTE: WHERE EXISTING PAVER AND PROPOSED PAVERS MEET, CONTRACTOR SHALL MIX PAVERS ACCORDING TO DETAILS TO BLEND AND BREAK UP THE HARDLINE.





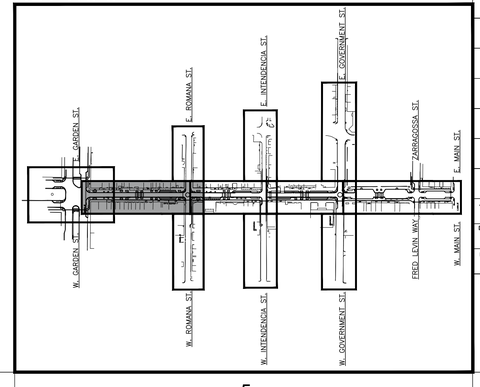
REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION	DETAIL
02 Existing Conditions			
	02-01	"VISIT PENSACOLA" DIGITAL SIGN TO BE RELOCATED	
Civil Sitework			
	C-101	ASPHALT - SEE CIVIL	
Landscape			
	L-101	PROPOSED LANDSCAPE AREA - SEE PLANTING PLAN	1/L9.04
Paving			
	P-101	PEDESTRIAN FIELD PAVER - GLEN GARY-IRON CITY-FULL RANGE 4X8X2 ¼ (OAE)-HERRINGBONE	2/L9.02
	P-102	PEDESTRIAN PAVER BORDER - GLEN GARY-IRON CITY-FULL RANGE 4 X8X2 ¼ (OAE)- SOLDIER CORSE	3/L9.02
	P-103	HARDSCAPES USA -BREMEN ADA X8X2 3/8- 'MAIZE' SOLID COLOR BASKET WEAVE PATTERN (OAE)	5/L9.02
	P-104	ARTISTIC PAVERS-GRANITELOCK 12X12X1 5/8-ARCTIC WHITE & STERLING GRAY (OAE)-ALTERNATE CHECKERBOARD	
	P-105	ARTISTIC PAVERS-GRANITELOCK 12X12X1 5/8-STEARLING GRAY(OAE) RUNNING BOND BOARDER	
	P-106	STREETBOND DECORATIVE COATING -SEE DETAIL FOR FDOT CROSSWALK	12/L9.01
Vehicular Paver			
	P-201	VEHICULAR FIELD PAVER - GLEN GARY-IRON CITY-FULL RANGE 4 X 8 X 2 3/4 (OAE)-HERRINGBONE	7/L9.01
	P-202	BELGARD - CHARLESTONE - 3 PIECE RUNNING BOND - PERPENDICLUAR TO PALAFOX CENTERLINE- 'TITANIUM COLOR'	11/L9.01
	P-205	VEHICULAR PAVER - GLEN GARY-IRON CITY- FULL RANGE 4 X 8 X 2 3/4 (OAE)- SOLDIER CORSE	7/L9.01
	P-206	A1S TRAIL	1/L9.01
	P-207	BELGARD-CHARLESTONE-3PIECE RUNNING BOND- 6X12"- PERPENDICULAR TO PALAFOX CENTER LINE- 'TITANIUM COLOR'	
Concrete			
	P-301	PEDESTRIAN CONCRETE - PER CIVIL	
	P-302	VEHICULAR CONCRETE - PER CIVIL	

REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION	DETAIL
Planters			
	L-201	WALLOWA DESIGN - HCMP002-BLK - 14X14X30H	2/L9.05
	L-202	WALLOWA DESIGN - HCMP004-BLK - 38X15X15H	2/L9.05
Site Furnishings			
	S-101	BIKE RACK: LS FORMS - RING - STAINLESS STEEL - EMBEDDED (OAE)	3/L9.03
	S-102	LITTER RECEPTACLE: LS FORMS - PLAINWELL - BLACK GLOSS - SIDE OPENING (OAE)	5/L9.03
	S-103	BENCH: LS FORMS - PLAINWELL - BLACK GLOSS - IPE - 72" W CENTER DIVIDER (OAE)	4/L9.03

KEY MAP



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NORTH

GRAPHIC SCALE 1 IN = 20 FT (0, 10', 20', 40')

GARDEN ST. TO ROMANA ST.

THE NEW PALAFOX
S. PALAFOX STREET, PENSACOLA FL 32502

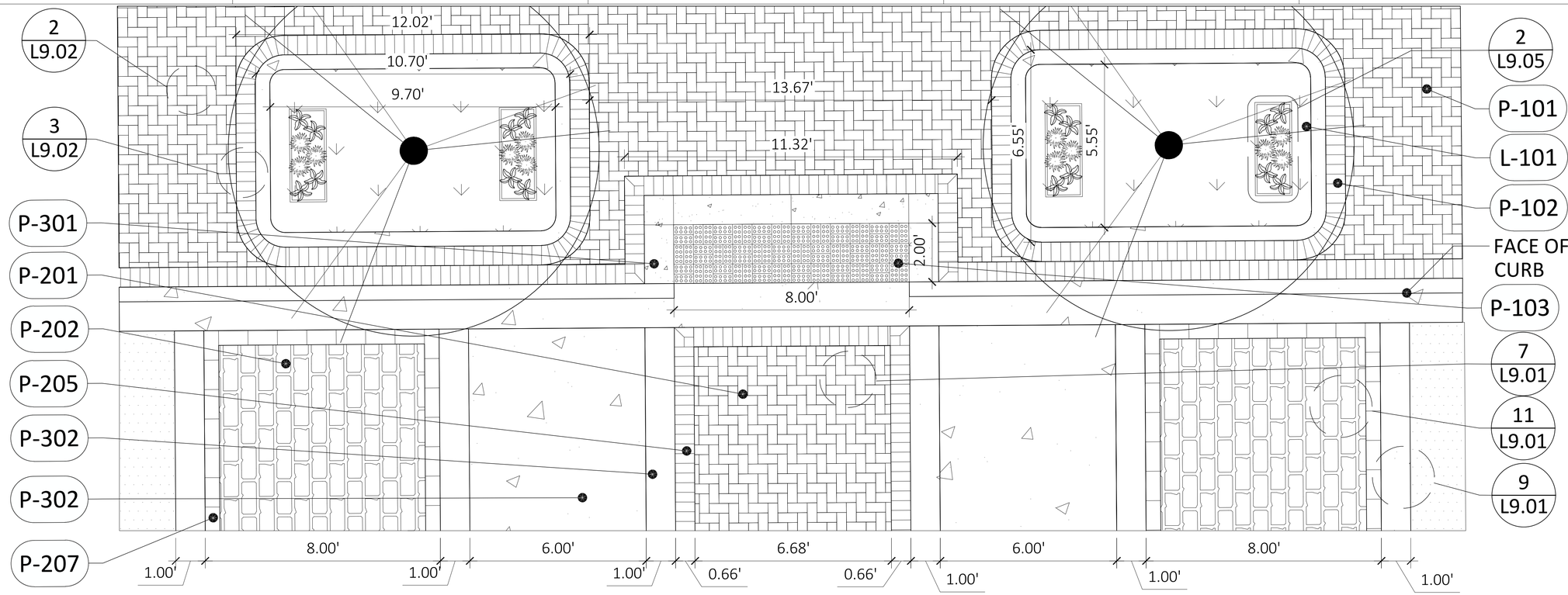
PHASE A - HARDSCAPE PLAN

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

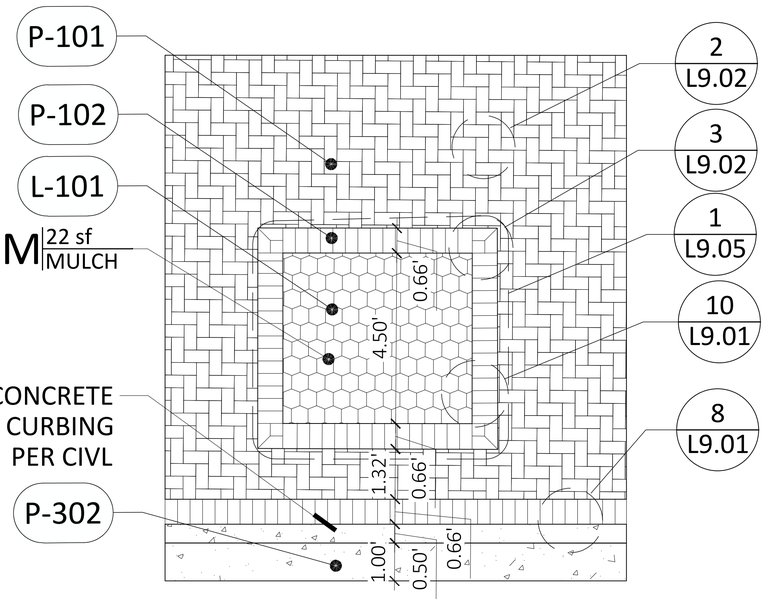
JPD PROJECT NUMBER: 24012
DRAWN BY: EH
CHECKED BY: BA
DATE: 08/29/2025
SHEET NO.: L1.11

100% CONSTRUCTION DOCUMENTS - NOT FOR CONSTRUCTION



1 GARDEN ST. TO ROMANA MID-BLOCK CROSSING

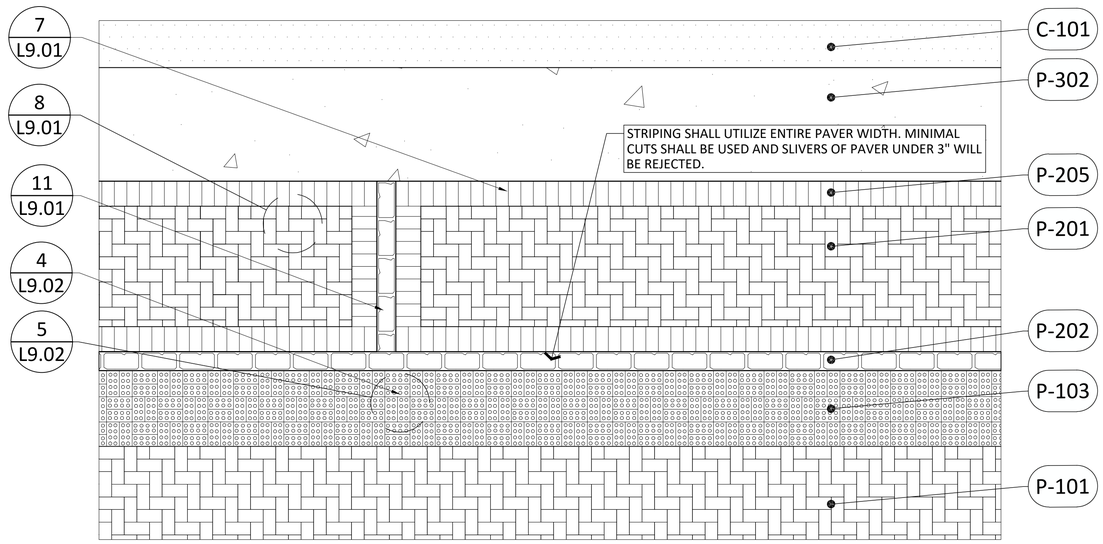
1/2" = 1'-0"



2 PALM TREE PIT INSET

1/2"= 1'-0"

P-PFX-14



NOTE: ALL PARKING STALL STRIPING WITHIN PARALLEL PARKING WITH PAVERS SHALL BE CONSTRUCTED USING PAVERS AS DELINEATED HERE. UNDER NO CIRCUMSTANCES SHALL PAINT OR THERMOPLASTIC BE USED ON PAVERS OR ADJACENT CONCRETE.

3 PARALLEL PARKING - WITH PAVER - INSET

3/8" = 1'-0"

P-PFX-201

P-PFX-13

REFERENCE NOTES SCHEDULE

CODE	DESCRIPTION	DETAIL
02 Existing Conditions		
02-01	"VISIT PENSACOLA" DIGITAL SIGN TO BE RELOCATED	
Civil Sitework		
C-101	ASPHALT - SEE CIVIL	
General Sitework		
G-101	PALAFOX PLANTER	2/19.03
Landscape		
L-101	PROPOSED LANDSCAPE AREA - SEE PLANTING PLAN	1/19.04
Planters		
L-201	WALLOWA DESIGN - HCMP002-BLK - 14X14X30H	2/19.05
L-202	WALLOWA DESIGN - HCMP004-BLK - 38X15X15H	2/19.05
Paving		
P-101	PEDESTRIAN FIELD PAVER - GLEN GARY-IRON CITY-FULL RANGE 4XBX2 ¼ (OAE)-HERRINGBONE	2/19.02
P-102	PEDESTRIAN PAVER BORDER - GLEN GARY-IRON CITY-FULL RANGE 4 XBX2 ¼ (OAE)- SOLDIER CORSE	3/19.02
P-103	HARDSCAPES USA -BREMEN ADA XBX2 3/8- "MAIZE" SOLID COLOR BASKET WEAVE PATTERN (OAE)	5/19.02
P-104	ARTISTIC PAVERS-GRANITELOCK 12X12X1 5/8-ARCTIC WHITE & STERLING GRAY (OAE)-ALTERNATE CHECKERBOARD	
P-105	ARTISTIC PAVERS-GRANITELOCK 12X12X1 5/8-STEARLING GRAY(OAE) RUNNING BOND BOARDER	
Vehicular Paver		
P-201	VEHICULAR FIELD PAVER - GLEN GARY-IRON CITY-FULL RANGE 4 X 8 X 2 3/4 (OAE)-HERRINGBONE	7/19.01
P-202	BELGARD - CHARLESTONE - 3 PIECE RUNNING BOND - PERPENDICULAR TO PALAFOX CENTERLINE- "TITANIUM COLOR"	11/19.01
P-205	VEHICULAR PAVER - GLEN GARY-IRON CITY- FULL RANGE 4 X 8 X 2 3/4 (OAE)- SOLDIER CORSE	7/19.01
P-206	A15 TRAIL	1/19.01
P-207	BELGARD-CHARLESTONE-3PIECE RUNNING BOND- 6X12"- PERPENDICULAR TO PALAFOX CENTER LINE- "TITANIUM COLOR"	
Concrete		
P-301	PEDESTRIAN CONCRETE - PER CIVIL	
P-302	VEHICULAR CONCRETE - PER CIVIL	
Site Furnishings		
S-101	BIKE RACK- LS FORMS - RING - STAINLESS STEEL - EMBEDDED (OAE)	3/19.03
S-102	LITTER RECEPTACLE- LS FORMS - PLAINWELL - BLACK GLOSS - SIDE OPENING (OAE)	5/19.03
S-103	BENCH- LS FORMS - PLAINWELL - BLACK GLOSS - IPE - 72" W CENTER DIVIDER (OAE)	4/19.03

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THE NEW PALAFOX
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PHASE A - HARDSCAPE INSETS

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

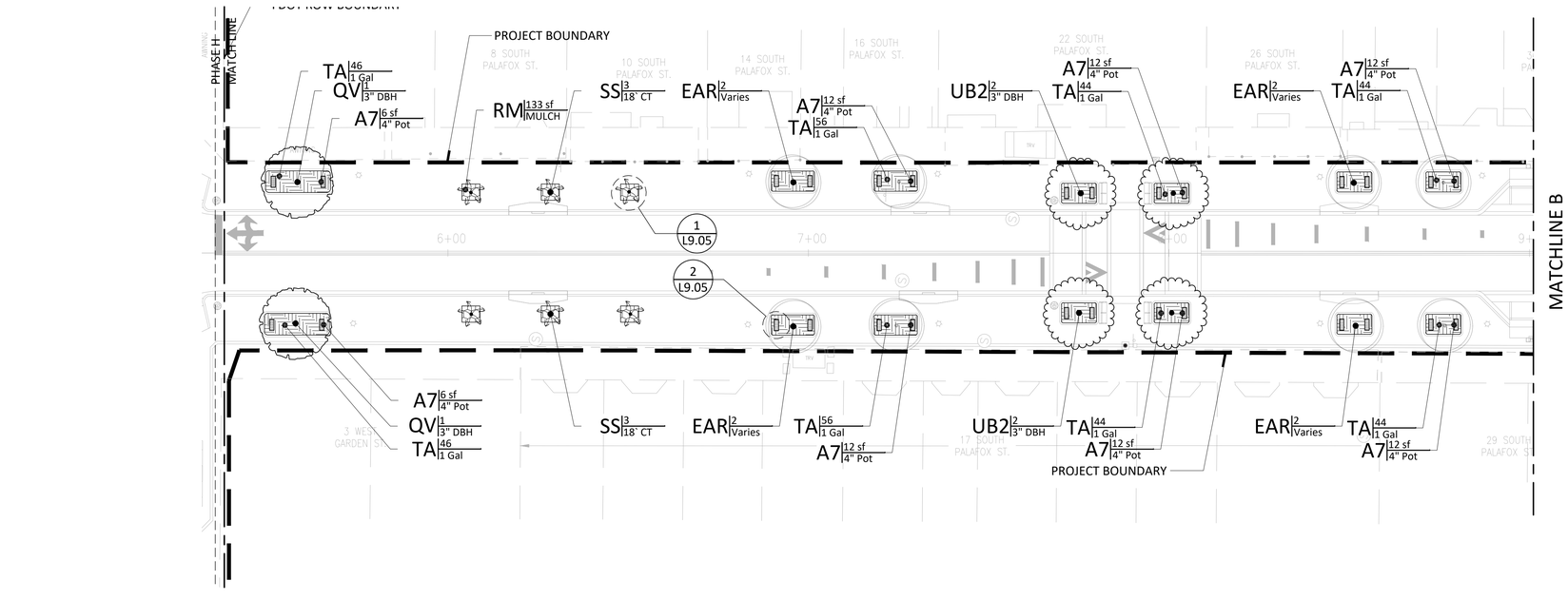
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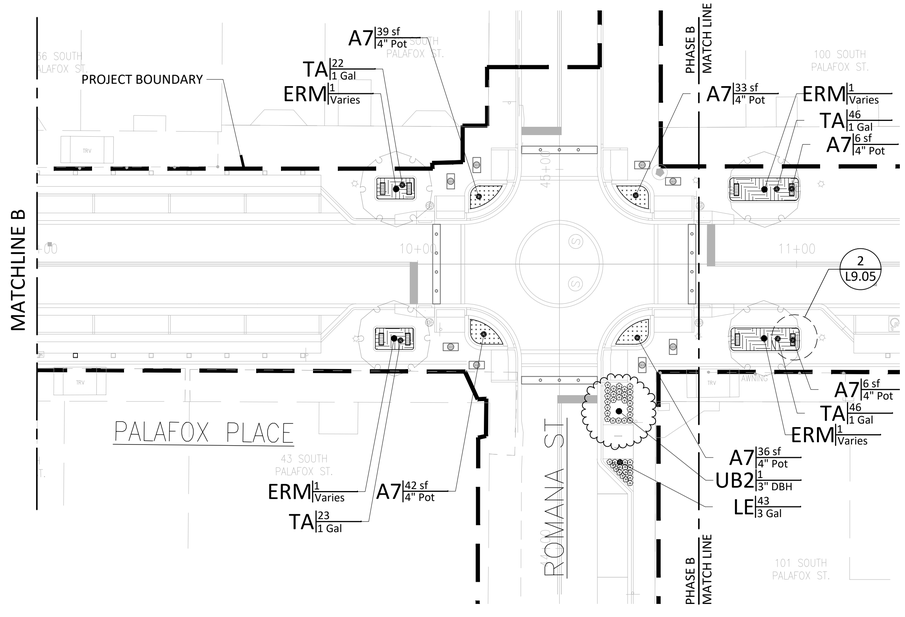
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SHEET NO.: L1.12

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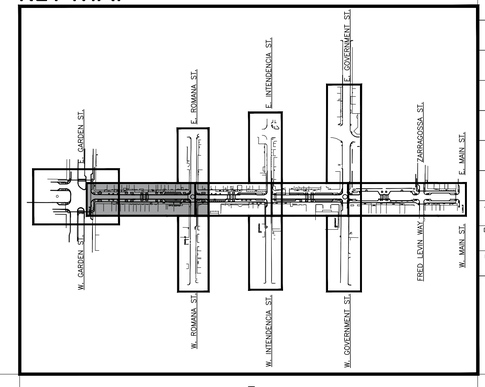


PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME
TREES		
	IC	ILEX CASSINE DAHOON HOLLY - TREE FORM
	QV	QUERCUS VIRGINIANA SOUTHERN LIVE OAK
	SS	SABAL PALMETTO CABBAGE PALMETTO
	UB2	ULMUS PARVIFOLIA 'BOSQUE' BOSQUE® LACEBARK ELM
EXISTING TO REMAIN		
	ERM	ACER RUBRUM RED MAPLE
	EAR	ILEX X ATTENUATA EAST PALATKA HOLLY
	ELI	LAGERSTROEMIA INDICA CRAPE MYRTLE
	EQV	QUERCUS VIRGINIANA SOUTHERN LIVE OAK
	EUB	ULMUS PARVIFOLIA 'BOSQUE' BOSQUE® LACEBARK ELM
SHRUBS		
	CN	CENCHRUS SETACEUS 'RUBRUM' PURPLE FOUNTAIN GRASS
	LE	LIRIOPE MUSCARI EMERALD GODDESS® LILYTURF
	MC	MUHLENBERGIA CAPILLARIS PINK MUHLY GRASS
GROUND COVERS		
	A7	ANNUALS
	RM	EPOXY BOUND RUBBER MULCH - BROWN
	TA	TRACHELOSPERMUM ASIATICUM ASIATIC JASMINE

NOTE: SEE PAGE L0.04 - LANDSCAPE KEY MAP SCHEDULE FOR SIZE/CONTAINER AND SPACING REQUIREMENTS.

KEY MAP



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NORTH

GRAPHIC SCALE 0 10' 20' 40' 1 IN = 20 FT

GARDEN ST. TO ROMANA ST.

THE NEW PALAFOX
S. PALAFOX STREET, PENSACOLA FL 32502

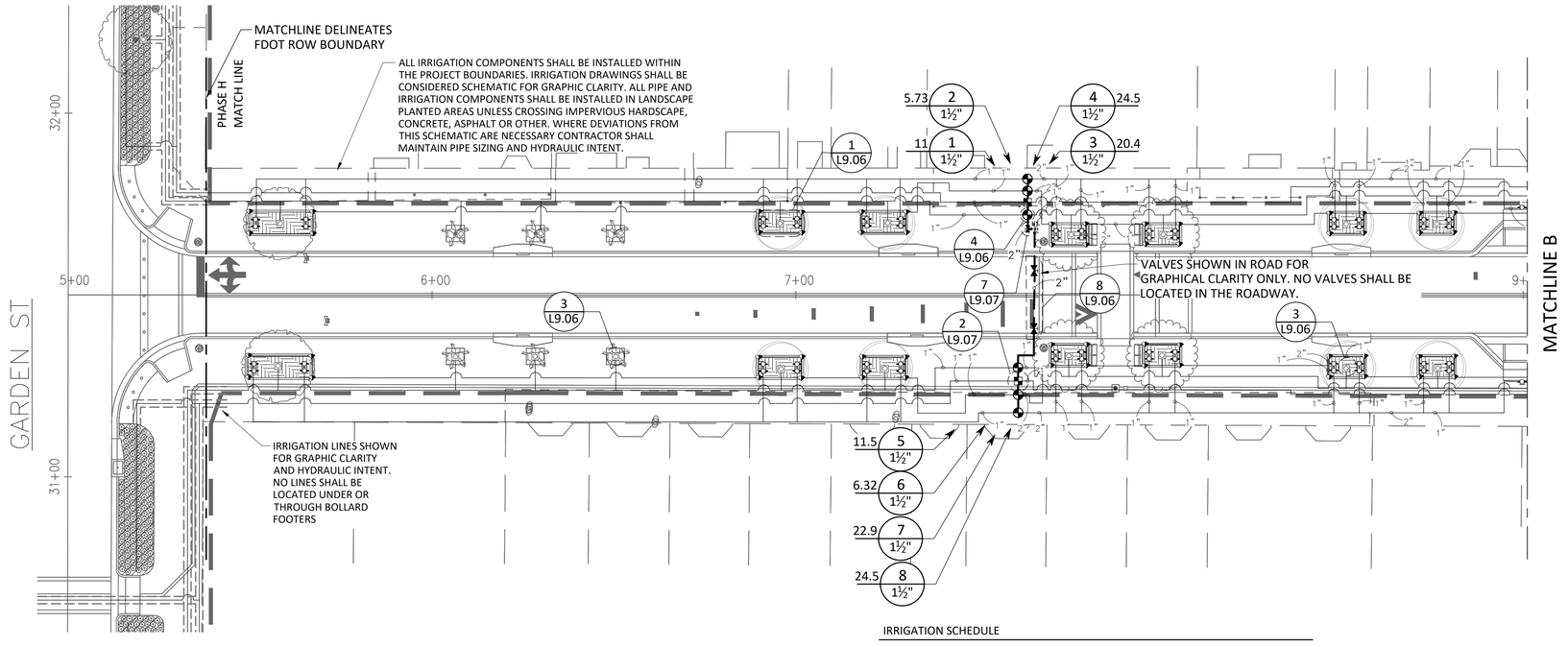
PHASE A - LANDSCAPE PLAN

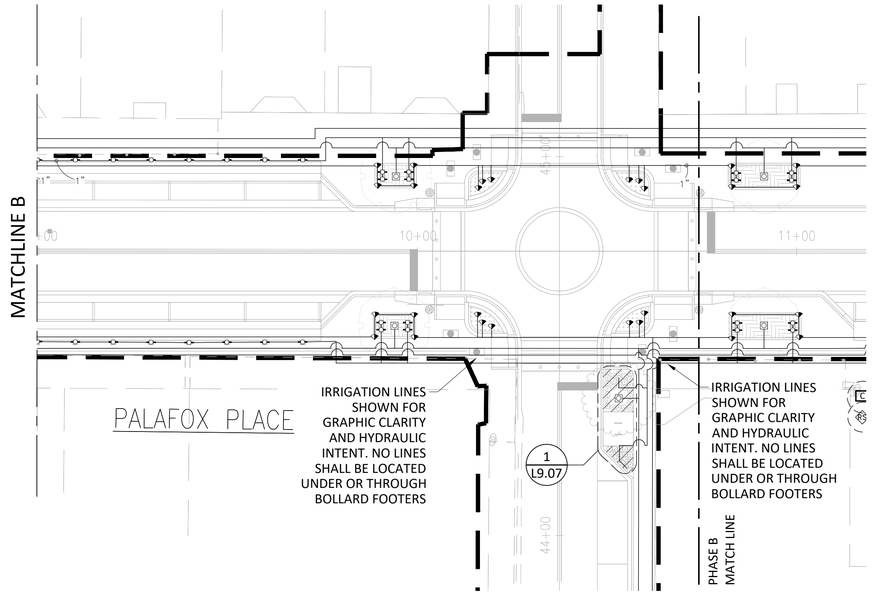
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REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012
DRAWN BY: EH
CHECKED BY: BA
DATE: 08/29/2025
SHEET NO.: L1.21

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IRRIGATION SCHEDULE

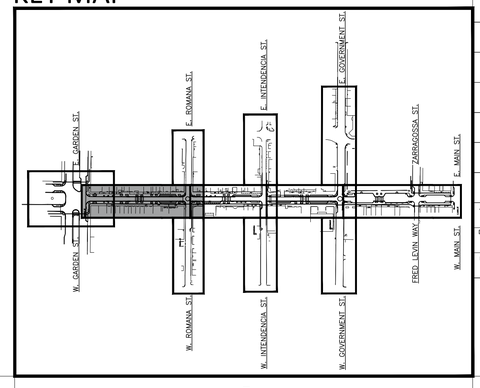
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	GPM	DETAIL
	RAIN BIRD 1800-1400 FLOOD 1402 FIXED FLOW RATE 0.25 GPM - 2.0 GPM, FULL CIRCLE BUBBLER, 1/2" FIPT.	50	0.5	3/L9.06

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	DETAIL
	RAIN BIRD XCZ-150-LCS 1-1/2" HIGH FLOW CONTROL ZONE KIT, FOR LARGE COMMERCIAL DRIP ZONES. 1-1/2" PEB GLOBE VALVE WITH SINGLE 1-1/2" PRESSURE REGULATING 40PSI QUICK-CHECK BASKET FILTER. FLOW RANGE: 15-62 GPM.		2/L9.07
90 180 360	RAIN BIRD XERI-SPRAY - SINGLE HEAD ADJUSTABLE FLOW/RADIUS, 10-32 SELF-TAPPING THREADED INLET. IDEAL FOR GROUND COVER, MASS PLANTINGS, ANNUAL FLOWER BEDS AND CONTAINERS.	20	1/L9.06
90 180 360	RAIN BIRD XERI-SPRAY - VERADECK PLANTER ADJUSTABLE FLOW/RADIUS, 10-32 SELF-TAPPING THREADED INLET. IDEAL FOR GROUND COVER, MASS PLANTINGS, ANNUAL FLOWER BEDS AND CONTAINERS.	20	
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFDE-06-18 XFDE ON-SURFACE PRESSURE COMPENSATING LANDSCAPE DRIPLINE. 0.6 GPH EMITTERS AT 18IN. O.C. DRIPLINE LATERALS SPACED AT RR APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. UV & KINK RESISTANT. USE XF INSERT FITTINGS.	30	1/L9.07

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
	RAIN BIRD PEB 1-1/2" 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.	4/L9.06
	MAINLINE ISOLATION VALVE 2" BRONZE GATE VALVE - CLASS 125 - CROSS HANDLE NON-RISING STEM-200 PSI. THREADED END CONNECTIONS WITH ADAPTERS TO HDPE MAINLINE.	7/L9.07
A	DRIP AIR RELIEF VALVE	5/L9.07
D	DRIP DRAIN VALVE	4/L9.07
C	RAIN BIRD ESPLXIVM-LXMM 60 STATION, 2-WIRE CONTROLLER W/ SMART VALVE TECHNOLOGY. (1) ESPLXIVM 60-STATION, INDOOR/OUTDOOR, PLASTIC WALL-MOUNT ENCLOSURE. INSTALLED IN LXMM POWDER COATED, METAL WALL-MOUNTED CABINET. SYSTEM REQUIREMENTS: RAIN BIRD LXIVM-XXX INTEGRATED VALVE MODULES & 2-WIRE DEVICES. GROUND SYSTEM W/ (X) LXIVMSD SURGE DEVICE IN RAIN BIRD ROUND VALVE BOXES. INSTALL PER MANUFACTURERS RECOMMENDATIONS.	8/L9.07
RFS	RAIN BIRD WR2-RFS WIRELESS RAIN/FREEZE SENSOR.	9/L9.07
M1	EXISTING ECUA METER EXISTING ECUA METER SHALL BE PRESERVED. A NEW DUCTILE IRON VALVE BOX AND LID SHALL BE INSTALLED. NEW DOUBLE CHECK VALVE BACKFLOW DEVICE SHALL BE INSTALLED BELOW GRADE IN A NEW DUCTILE IRON VALVE BOX PER LOCAL CODES.	
M2	EXISTING ECUA METER EXISTING ECUA METER SHALL BE PRESERVED. A NEW DUCTILE IRON VALVE BOX AND LID SHALL BE INSTALLED. NEW DOUBLE CHECK VALVE BACKFLOW DEVICE SHALL BE INSTALLED BELOW GRADE IN A NEW DUCTILE IRON VALVE BOX PER LOCAL CODES.	
	IRRIGATION LATERAL LINE: HDPE PE4710 DR 11 1"	
	IRRIGATION LATERAL LINE: HDPE PE4710 DR 11 2"	
	IRRIGATION MAINLINE: HDPE PE4710 DR 11 2"	

Valve Callout
Valve Number
Valve Flow
Valve Size

KEY MAP



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NORTH

GRAPHIC SCALE 0 10' 20' 40' 1 IN = 20 FT

GARDEN ST. TO ROMANA ST.

THE NEW PALAFOX
S. PALAFOX STREET, PENSACOLA FL 32502

PHASE A - IRRIGATION PLAN

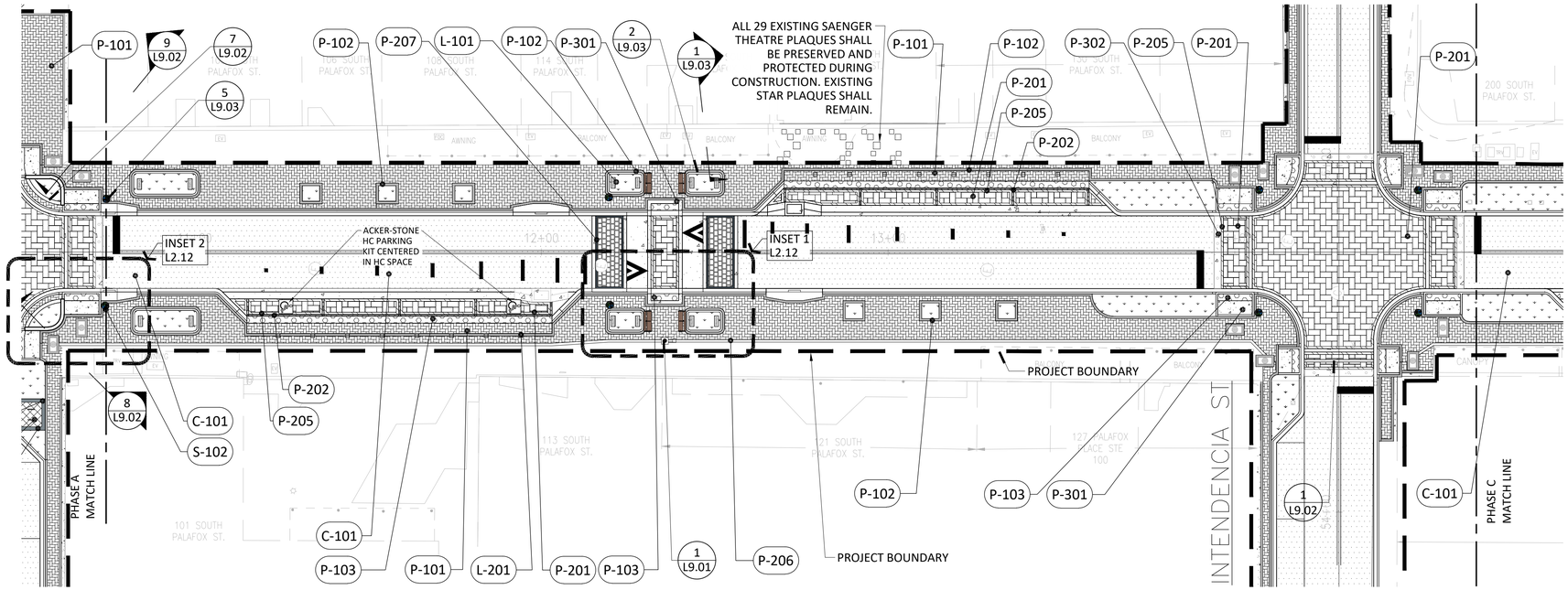
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REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012
DRAWN BY: EH
CHECKED BY: BA
DATE: 08/29/2025
SHEET NO.: L1.31

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NOTE: WHERE EXISTING PAVER AND PROPOSED PAVERS MEET, CONTRACTOR SHALL MIX PAVERS ACCORDING TO DETAILS TO BLEND AND BREAK UP THE HARDLINE.



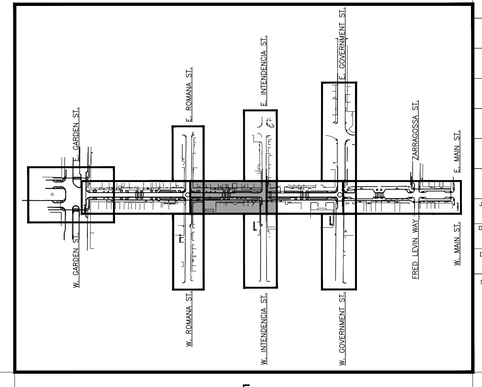
REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION	DETAIL
02 Existing Conditions			
	02-01	"VISIT PENSACOLA" DIGITAL SIGN TO BE RELOCATED	
Civil Sitework			
	C-101	ASPHALT - SEE CIVIL	
Landscape			
	L-101	PROPOSED LANDSCAPE AREA - SEE PLANTING PLAN	1/L9.04
Paving			
	P-101	PEDESTRIAN FIELD PAVER - GLEN GARY-IRON CITY-FULL RANGE 4X8X2 ¼ (OAE)-HERRINGBONE	2/L9.02
	P-102	PEDESTRIAN PAVER BORDER - GLEN GARY-IRON CITY-FULL RANGE 4 X8X2 ¼ (OAE)- SOLDIER CORSE	3/L9.02
	P-103	HARDSCAPES USA -BREMEN ADA X8X2 3/8- 'MAIZE' SOLID COLOR BASKET WEAVE PATTERN (OAE)	5/L9.02
	P-104	ARTISTIC PAVERS-GRANITELOCK 12X12X1 5/8-ARCTIC WHITE & STERLING GRAY (OAE)-ALTERNATE CHECKERBOARD	
	P-105	ARTISTIC PAVERS-GRANITELOCK 12X12X1 5/8-STEARLING GRAY(OAE) RUNNING BOND BOARDER	
	P-106	STREETBOND DECORATIVE COATING -SEE DETAIL FOR FDOT CROSSWALK	12/L9.01
Vehicular Paver			
	P-201	VEHICULAR FIELD PAVER - GLEN GARY-IRON CITY-FULL RANGE 4 X 8 X 2 3/4 (OAE)-HERRINGBONE	7/L9.01
	P-202	BELGARD - CHARLESTONE - 3 PIECE RUNNING BOND - PERPENDICLUAR TO PALAFOX CENTERLINE- 'TITANIUM COLOR'	11/L9.01
	P-205	VEHICULAR PAVER - GLEN GARY-IRON CITY- FULL RANGE 4 X 8 X 2 3/4 (OAE)- SOLDIER CORSE	7/L9.01
	P-206	A1S TRAIL	1/L9.01
	P-207	BELGARD-CHARLESTONE-3PIECE RUNNING BOND- 6X12"- PERPENDICULAR TO PALAFOX CENTER LINE- 'TITANIUM COLOR'	
Concrete			
	P-301	PEDESTRIAN CONCRETE - PER CIVIL	
	P-302	VEHICULAR CONCRETE - PER CIVIL	

REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION	DETAIL
Planters			
XXX	L-201	WALLOWA DESIGN - HCMP002-BLK - 14X14X30H	2/L9.05
HCMP001	L-202	WALLOWA DESIGN - HCMP004-BLK - 38X15X15H	2/L9.05
Site Furnishings			
	S-101	BIKE RACK: LS FORMS - RING - STAINLESS STEEL - EMBEDDED (OAE)	3/L9.03
	S-102	LITTER RECEPTACLE: LS FORMS - PLAINWELL - BLACK GLOSS - SIDE OPENING (OAE)	5/L9.03
	S-103	BENCH: LS FORMS - PLAINWELL - BLACK GLOSS - IPE - 72" W CENTER DIVIDER (OAE)	4/L9.03

KEY MAP



Jerry Pate Design
301 Schubert Drive – Pensacola, FL 32504
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NORTH

GRAPHIC SCALE 1 IN = 20 FT (0, 10', 20', 40')

ROMANA ST. TO INTENDENCIA ST.

THE NEW PALAFOX
S. PALAFOX STREET, PENSACOLA FL 32502

PHASE B - HARDSCAPE PLAN

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

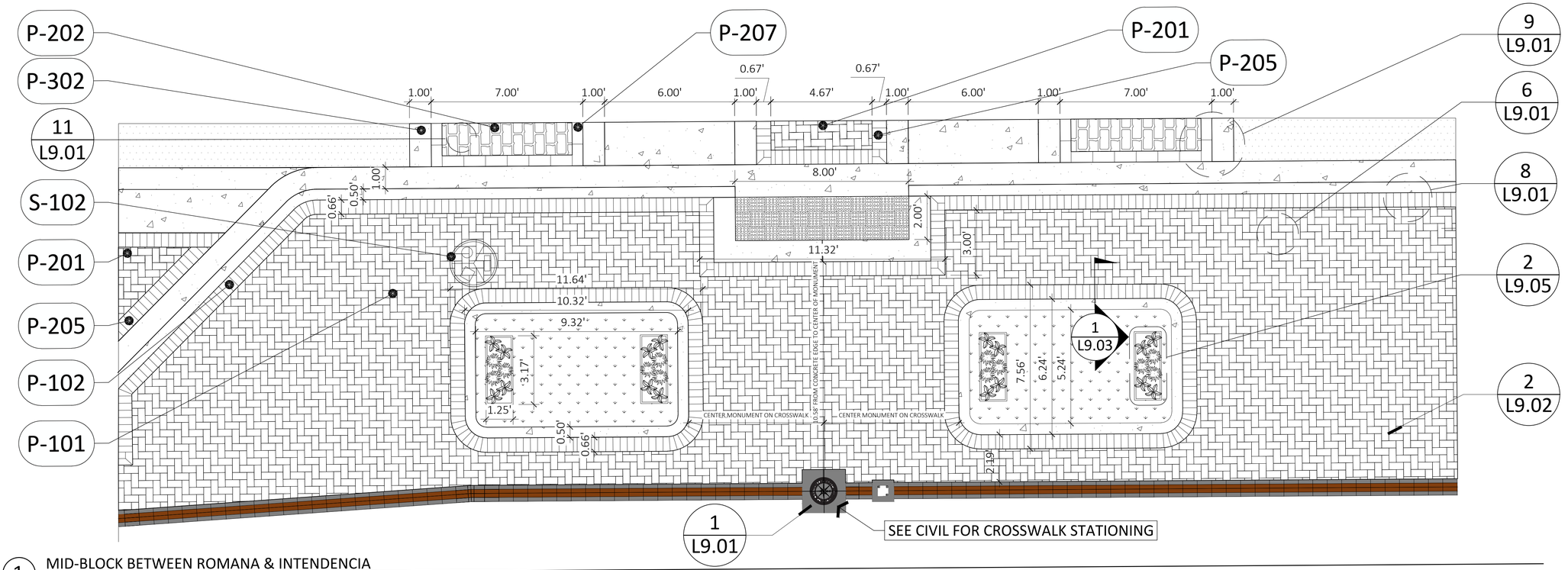
JPD PROJECT NUMBER: 24012

DRAWN BY: EH | CHECKED BY: BA

DATE: 08/29/2025

SHEET NO.: L2.11

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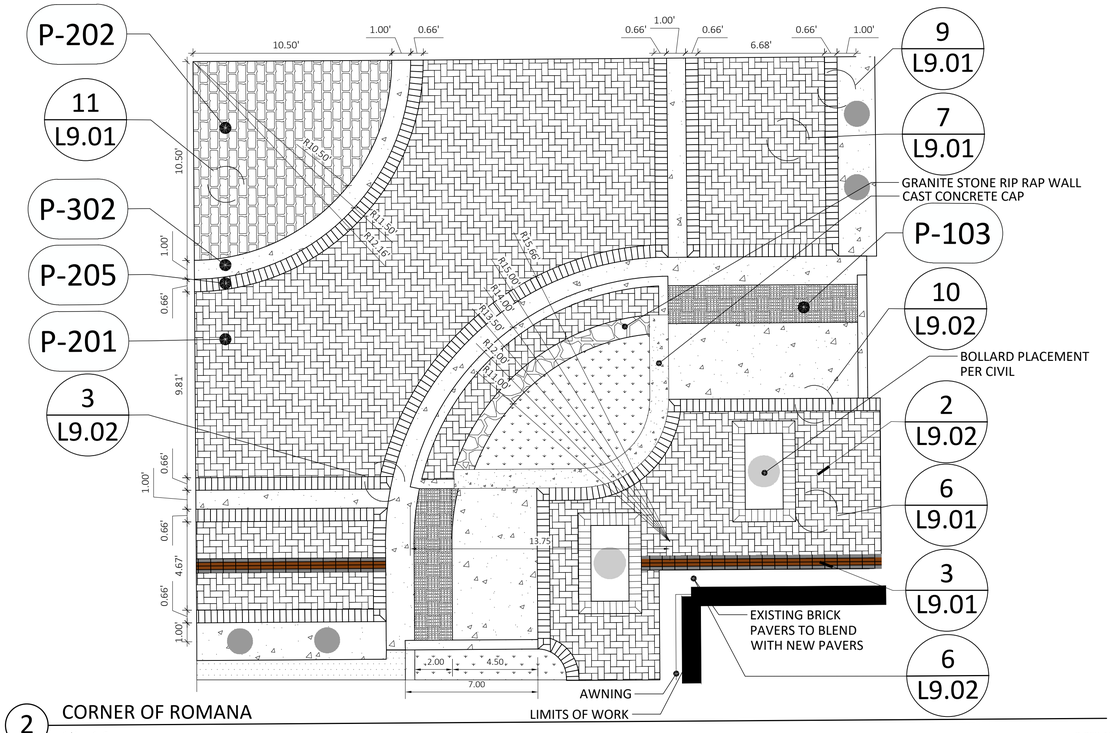
1 MID-BLOCK BETWEEN ROMANA & INTENDENCIA

3/8" = 1'-0"

P-PFX-17

REFERENCE NOTES SCHEDULE

CODE	DESCRIPTION	DETAIL
02 Existing Conditions		
02-01	"VISIT PENSACOLA" DIGITAL SIGN TO BE RELOCATED	
Civil Sitework		
C-101	ASPHALT - SEE CIVIL	
General Sitework		
G-101	PALAFOX PLANTER	2/L9.03
Landscape		
L-101	PROPOSED LANDSCAPE AREA - SEE PLANTING PLAN	1/L9.04
Planters		
L-201	WALLOWA DESIGN - HCMP002-BLK - 14X14X30H	2/L9.05
L-202	WALLOWA DESIGN - HCMP004-BLK - 38X15X15H	2/L9.05
Paving		
P-101	PEDESTRIAN FIELD PAVER - GLEN GARY-IRON CITY-FULL RANGE 4X8X2 ¾ (OAE)-HERRINGBONE	2/L9.02
P-102	PEDESTRIAN PAVER BORDER - GLEN GARY-IRON CITY-FULL RANGE 4 X8X2 ¾ (OAE)- SOLDIER CORSE	3/L9.02
P-103	HARDSCAPES USA - BREMEN ADA X8X2 3/8- 'MAIZE' SOLID COLOR BASKET WEAVE PATTERN (OAE)	5/L9.02
P-104	ARTISTIC PAVERS-GRANITELOCK 12X12X1 5/8-ARCTIC WHITE & STERLING GRAY (OAE)-ALTERNATE CHECKERBOARD	
P-105	ARTISTIC PAVERS-GRANITELOCK 12X12X1 5/8-STEARLING GRAY(OAE) RUNNING BOND BOARDER	
Vehicular Paver		
P-201	VEHICULAR FIELD PAVER - GLEN GARY-IRON CITY-FULL RANGE 4 X 8 X 2 3/4 (OAE)-HERRINGBONE	7/L9.01
P-202	BELGARD - CHARLESTONE - 3 PIECE RUNNING BOND - PERPENDICLUAR TO PALAFOX CENTERLINE- "TITANIUM COLOR"	11/L9.01
P-205	VEHICULAR PAVER - GLEN GARY-IRON CITY- FULL RANGE 4 X 8 X 2 3/4 (OAE)- SOLDIER CORSE	7/L9.01
P-206	A1S TRAIL	1/L9.01
P-207	BELGARD-CHARLESTONE-3PIECE RUNNING BOND- 6X12"- PERPENDICULAR TO PALAFOX CENTER LINE- 'TITANIUM COLOR'	
Concrete		
P-301	PEDESTRIAN CONCRETE - PER CIVIL	
P-302	VEHICULAR CONCRETE - PER CIVIL	
Site Furnishings		
S-101	BIKE RACK- LS FORMS - RING - STAINLESS STEEL - EMBEDDED (OAE)	3/L9.03
S-102	LITTER RECEPTACLE- LS FORMS - PLAINWELL - BLACK GLOSS - SIDE OPENING (OAE)	5/L9.03
S-103	BENCH- LS FORMS - PLAINWELL - BLACK GLOSS - IPE - 72" W CENTER DIVIDER (OAE)	4/L9.03



2 CORNER OF ROMANA

1/4" = 1'-0"

P-PFX-18

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THE NEW PALAFOX
S. PALAFOX STREET, PENSACOLA FL 32502

PHASE B - HARDSCAPE INSETS

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

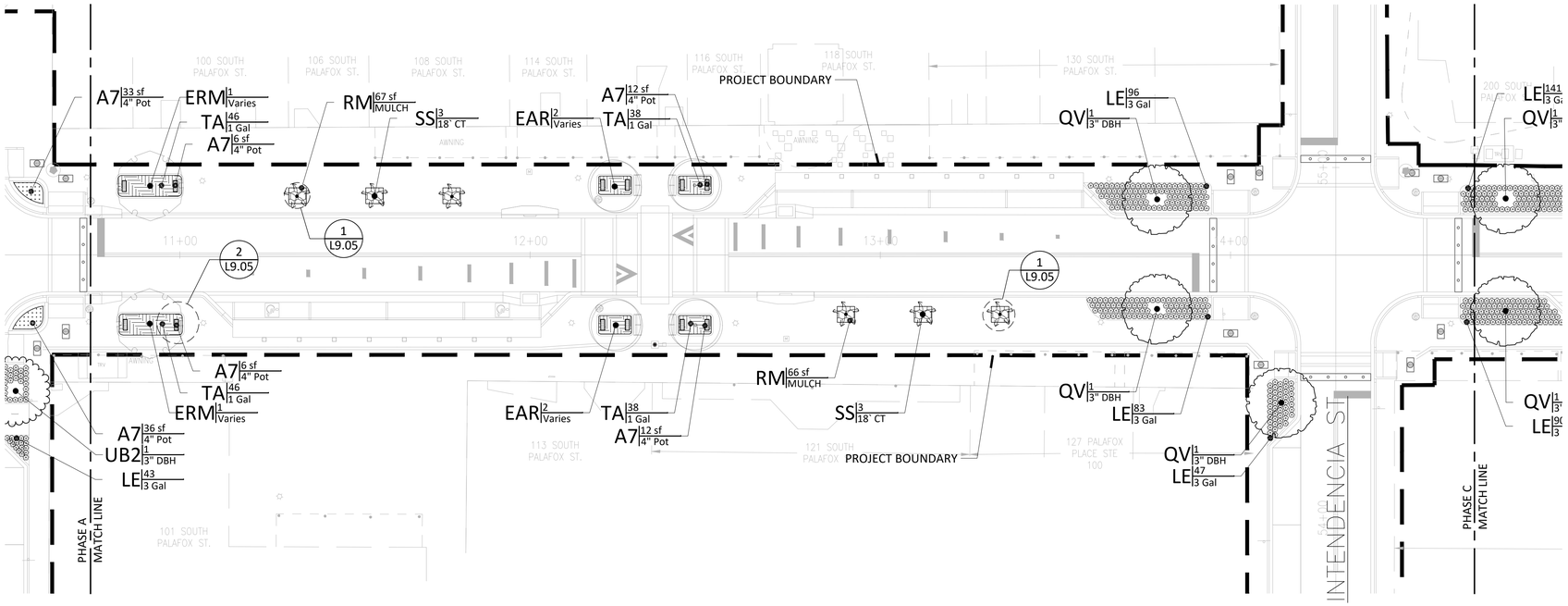
JPD PROJECT NUMBER: 24012

DRAWN BY: EH | CHECKED BY: BA

DATE: 08/29/2025

SHEET NO.: L2.12

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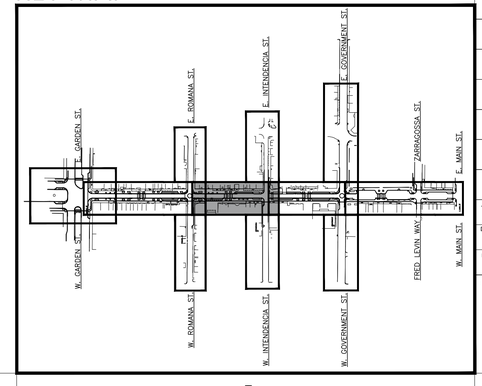


PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME
TREES		
	IC	ILEX CASSINE DAHOON HOLLY - TREE FORM
	QV	QUERCUS VIRGINIANA SOUTHERN LIVE OAK
	SS	SABAL PALMETTO CABBAGE PALMETTO
	UB2	ULMUS PARVIFOLIA 'BOSQUE' BOSQUE® LACEBARK ELM
EXISTING TO REMAIN		
	ERM	ACER RUBRUM RED MAPLE
	EAR	ILEX X ATTENUATA EAST PALATKA HOLLY
	ELI	LAGERSTROEMIA INDICA CRAPE MYRTLE
	EQV	QUERCUS VIRGINIANA SOUTHERN LIVE OAK
	EUB	ULMUS PARVIFOLIA 'BOSQUE' BOSQUE® LACEBARK ELM
SHRUBS		
	CN	CENCHRUS SETACEUS 'RUBRUM' PURPLE FOUNTAIN GRASS
	LE	LIRIOPE MUSCARI EMERALD GODDESS® LILYTURF
	MC	MUHLENBERGIA CAPILLARIS PINK MUHLY GRASS
GROUND COVERS		
	A7	ANNUALS
	RM	EPOXY BOUND RUBBER MULCH - BROWN
	TA	TRACHELOSPERMUM ASIATICUM ASIATIC JASMINE

NOTE: SEE PAGE L0.04 - LANDSCAPE KEY MAP SCHEDULE FOR SIZE/CONTAINER AND SPACING REQUIREMENTS.

KEY MAP



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NORTH

GRAPHIC SCALE 0 10' 20' 40' 1 IN = 20 FT

ROMANA ST. TO INTENDENCIA ST.

THE NEW PALAFOX
S. PALAFOX STREET, PENSACOLA FL 32502

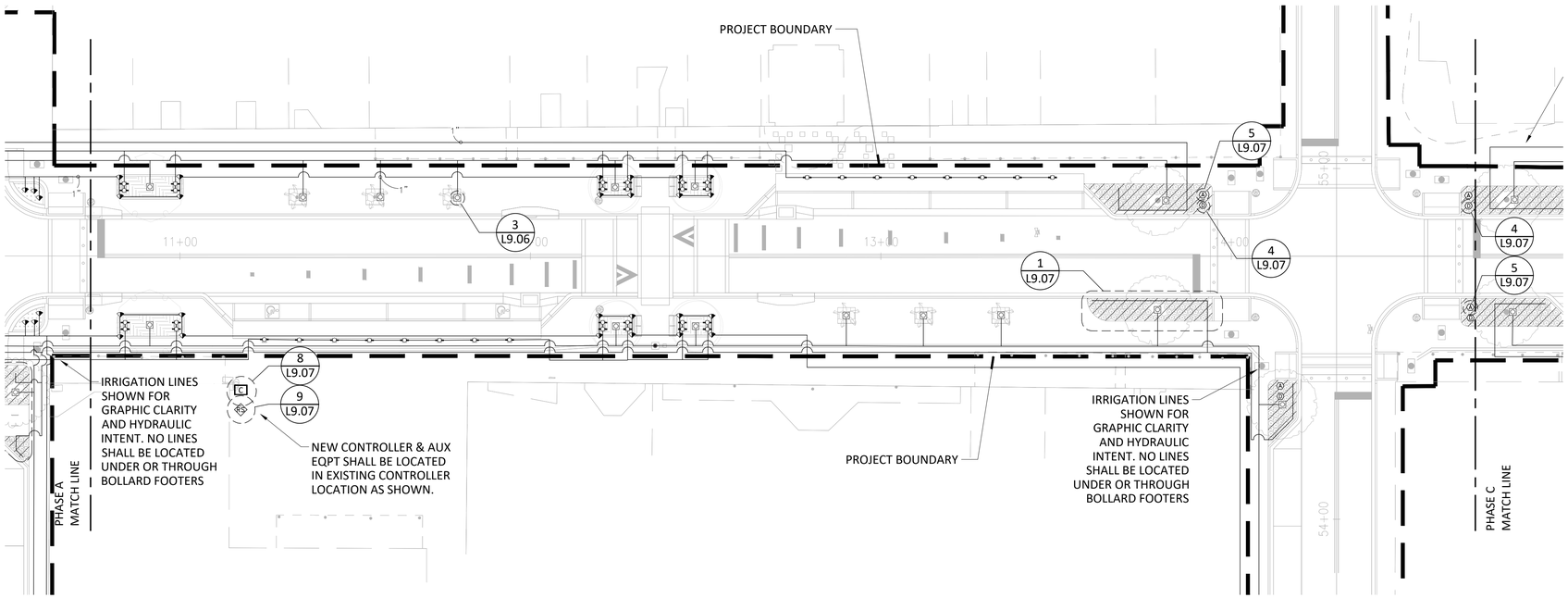
PHASE B - LANDSCAPE PLAN

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012
DRAWN BY: EH
CHECKED BY: BA
DATE: 08/29/2025
SHEET NO.: L2.21

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IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	GPM	DETAIL
⊠	RAIN BIRD 1800-1400 FLOOD 1402 FIXED FLOW RATE 0.25 GPM - 2.0 GPM, FULL CIRCLE BUBBLER, 1/2" FIPT.	50	0.5	3/L9.06

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	DETAIL
	RAIN BIRD XCZ-150-LCS 1-1/2" HIGH FLOW CONTROL ZONE KIT, FOR LARGE COMMERCIAL DRIP ZONES. 1-1/2" PEB GLOBE VALVE WITH SINGLE 1-1/2" PRESSURE REGULATING 40PSI QUICK-CHECK BASKET FILTER. FLOW RANGE: 15-62 GPM.		2/L9.07
90 180 360	RAIN BIRD XERI-SPRAY - SINGLE HEAD ADJUSTABLE FLOW/RADIUS, 10-32 SELF-TAPPING THREADED INLET. IDEAL FOR GROUND COVER, MASS PLANTINGS, ANNUAL FLOWER BEDS AND CONTAINERS.	20	1/L9.06
90 180 360	RAIN BIRD XERI-SPRAY - VERADECK PLANTER ADJUSTABLE FLOW/RADIUS, 10-32 SELF-TAPPING THREADED INLET. IDEAL FOR GROUND COVER, MASS PLANTINGS, ANNUAL FLOWER BEDS AND CONTAINERS.	20	
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFDE-06-18 XFDE ON-SURFACE PRESSURE COMPENSATING LANDSCAPE DRIPLINE. 0.6 GPH EMITTERS AT 18IN. O.C. DRIPLINE LATERALS SPACED AT RR APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. UV & KINK RESISTANT. USE XF INSERT FITTINGS.	30	1/L9.07

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
	RAIN BIRD PEB 1-1/2" 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.	4/L9.06
	MAINLINE ISOLATION VALVE 2" BRONZE GATE VALVE - CLASS 125 - CROSS HANDLE NON-RISING STEM-200 PSI. THREADED END CONNECTIONS WITH ADAPTERS TO HDPE MAINLINE.	7/L9.07
A	DRIP AIR RELIEF VALVE	5/L9.07
D	DRIP DRAIN VALVE	4/L9.07
C	RAIN BIRD ESPLXIVM-LXMM 60 STATION, 2-WIRE CONTROLLER W/ SMART VALVE TECHNOLOGY. (1) ESPLXIVM 60-STATION, INDOOR/OUTDOOR, PLASTIC WALL-MOUNT ENCLOSURE. INSTALLED IN LXMM POWDER COATED, METAL WALL-MOUNTED CABINET. SYSTEM REQUIREMENTS: RAIN BIRD LXIVM-XXX INTEGRATED VALVE MODULES & 2-WIRE DEVICES. GROUND SYSTEM W/ (X) LXIVMSD SURGE DEVICE IN RAIN BIRD ROUND VALVE BOXES. INSTALL PER MANUFACTURERS RECOMMENDATIONS.	8/L9.07
RS	RAIN BIRD WR2-RFS WIRELESS RAIN/FREEZE SENSOR.	9/L9.07
M1	EXISTING ECUA METER EXISTING ECUA METER SHALL BE PRESERVED. A NEW DUCTILE IRON VALVE BOX AND LID SHALL BE INSTALLED. NEW DOUBLE CHECK VALVE BACKFLOW DEVICE SHALL BE INSTALLED BELOW GRADE IN A NEW DUCTILE IRON VALVE BOX PER LOCAL CODES.	
M2	EXISTING ECUA METER EXISTING ECUA METER SHALL BE PRESERVED. A NEW DUCTILE IRON VALVE BOX AND LID SHALL BE INSTALLED. NEW DOUBLE CHECK VALVE BACKFLOW DEVICE SHALL BE INSTALLED BELOW GRADE IN A NEW DUCTILE IRON VALVE BOX PER LOCAL CODES.	

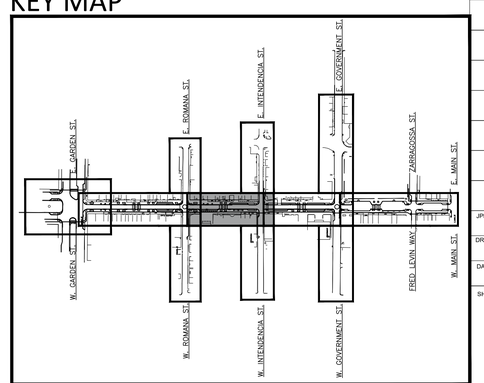
IRRIGATION LATERAL LINE: HDPE PE4710 DR 11 1"

IRRIGATION LATERAL LINE: HDPE PE4710 DR 11 2"

IRRIGATION MAINLINE: HDPE PE4710 DR 11 2"

Valve Callout
- Valve Number
- Valve Flow
- Valve Size

KEY MAP



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NORTH

GRAPHIC SCALE 1 IN = 20 FT (0, 10', 20', 40')

ROMANA ST. TO INTENDENCIA ST.

THE NEW PALAFOX
S. PALAFOX STREET, PENSACOLA FL 32502

PHASE B - IRRIGATION PLAN

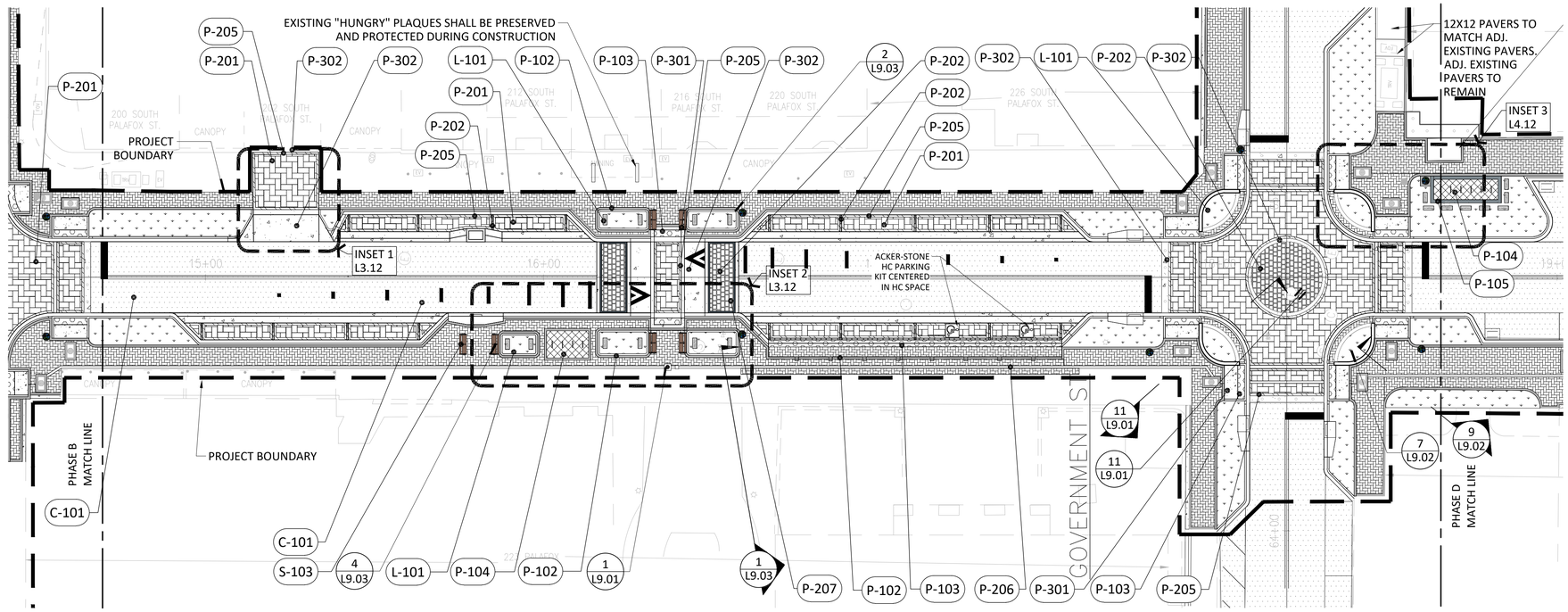
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REV.	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012
DRAWN BY: EH | CHECKED BY: BA
DATE: 08/29/2025
SHEET NO.: L2.31

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NOTE: WHERE EXISTING PAVER AND PROPOSED PAVERS MEET, CONTRACTOR SHALL MIX PAVERS ACCORDING TO DETAILS TO BLEND AND BREAK UP THE HARDLINE.



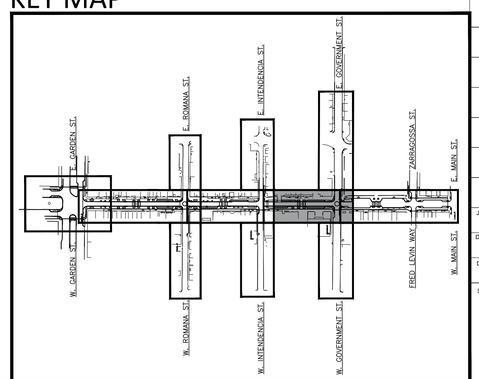
REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION	DETAIL
02 Existing Conditions			
	02-01	"VISIT PENSACOLA" DIGITAL SIGN TO BE RELOCATED	
Civil Sitework			
	C-101	ASPHALT - SEE CIVIL	
Landscape			
	L-101	PROPOSED LANDSCAPE AREA - SEE PLANTING PLAN	1/L9.04
Paving			
	P-101	PEDESTRIAN FIELD PAVER - GLEN GARY-IRON CITY-FULL RANGE 4X8X2 ¼ (OAE)-HERRINGBONE	2/L9.02
	P-102	PEDESTRIAN PAVER BORDER - GLEN GARY-IRON CITY-FULL RANGE 4 X8X2 ¼ (OAE)- SOLDIER CORSE	3/L9.02
	P-103	HARDSCAPES USA -BREMEN ADA X8X2 3/8- "MAIZE' SOLID COLOR BASKET WEAVE PATTERN (OAE)	5/L9.02
	P-104	ARTISTIC PAVERS-GRANITELOCK 12X12X1 5/8-ARCTIC WHITE & STERLING GRAY (OAE)-ALTERNATE CHECKERBOARD	
	P-105	ARTISTIC PAVERS-GRANITELOCK 12X12X1 5/8-STEARLING GRAY(OAE) RUNNING BOND BOARDER	
	P-106	STREETBOND DECORATIVE COATING -SEE DETAIL FOR FDOT CROSSWALK	12/L9.01
Vehicular Paver			
	P-201	VEHICULAR FIELD PAVER - GLEN GARY-IRON CITY-FULL RANGE 4 X 8 X 2 3/4 (OAE)-HERRINGBONE	7/L9.01
	P-202	BELGARD - CHARLESTONE - 3 PIECE RUNNING BOND - PERPENDICLUAR TO PALAFOX CENTERLINE- 'TITANIUM COLOR'	11/L9.01
	P-205	VEHICULAR PAVER - GLEN GARY-IRON CITY- FULL RANGE 4 X 8 X 2 3/4 (OAE)- SOLDIER CORSE	7/L9.01
	P-206	A1S TRAIL	1/L9.01
	P-207	BELGARD-CHARLESTONE-3PIECE RUNNING BOND- 6X12"- PERPENDICULAR TO PALAFOX CENTER LINE- 'TITANIUM COLOR'	
Concrete			
	P-301	PEDESTRIAN CONCRETE - PER CIVIL	
	P-302	VEHICULAR CONCRETE - PER CIVIL	

REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION	DETAIL
Planters			
	L-201	WALLOWA DESIGN - HCMP002-BLK - 14X14X30H	2/L9.05
HCMP002	L-202	WALLOWA DESIGN - HCMP004-BLK - 38X15X15H	2/L9.05
Site Furnishings			
	S-101	BIKE RACK: LS FORMS - RING - STAINLESS STEEL - EMBEDDED (OAE)	3/L9.03
	S-102	LITTER RECEPTACLE: LS FORMS - PLAINWELL - BLACK GLOSS - SIDE OPENING (OAE)	5/L9.03
	S-103	BENCH: LS FORMS - PLAINWELL - BLACK GLOSS - IPE - 72" W CENTER DIVIDER (OAE)	4/L9.03

KEY MAP



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NORTH

GRAPHIC SCALE 1 IN = 20 FT
0 10' 20' 40'

INTENDENCIA ST. TO GOVERNMENT ST.

THE NEW PALAFOX
S. PALAFOX STREET, PENSACOLA FL 32502

PHASE C - HARDSCAPE PLAN

SIGNATURE BLOCK

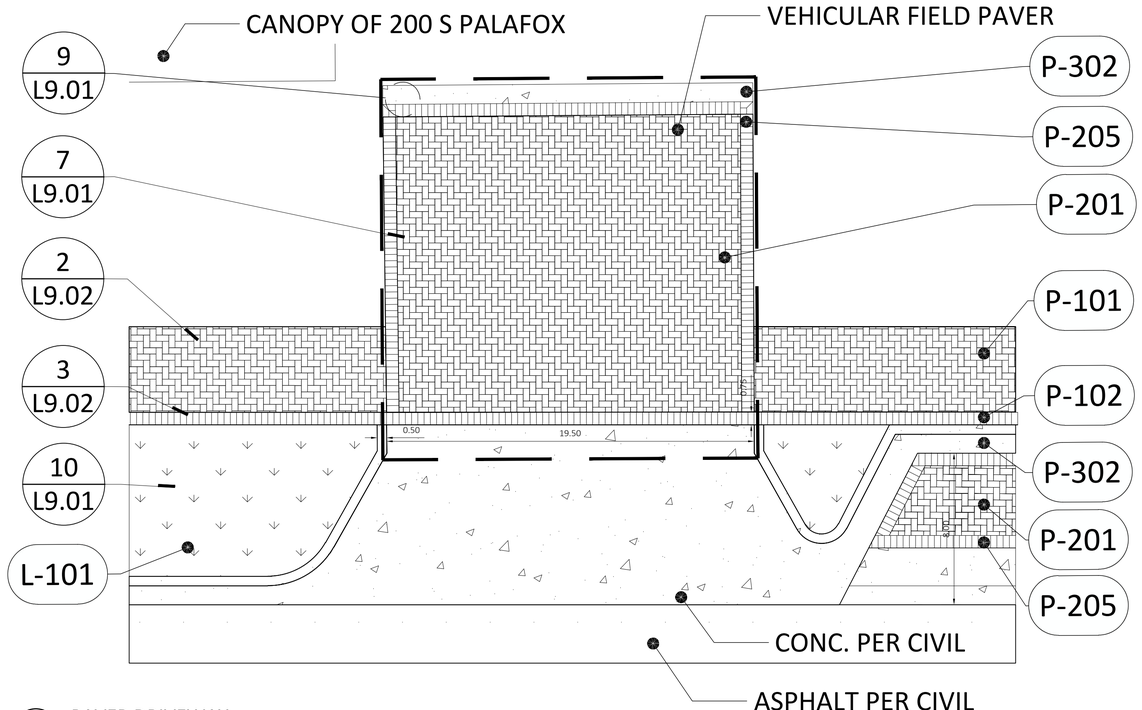
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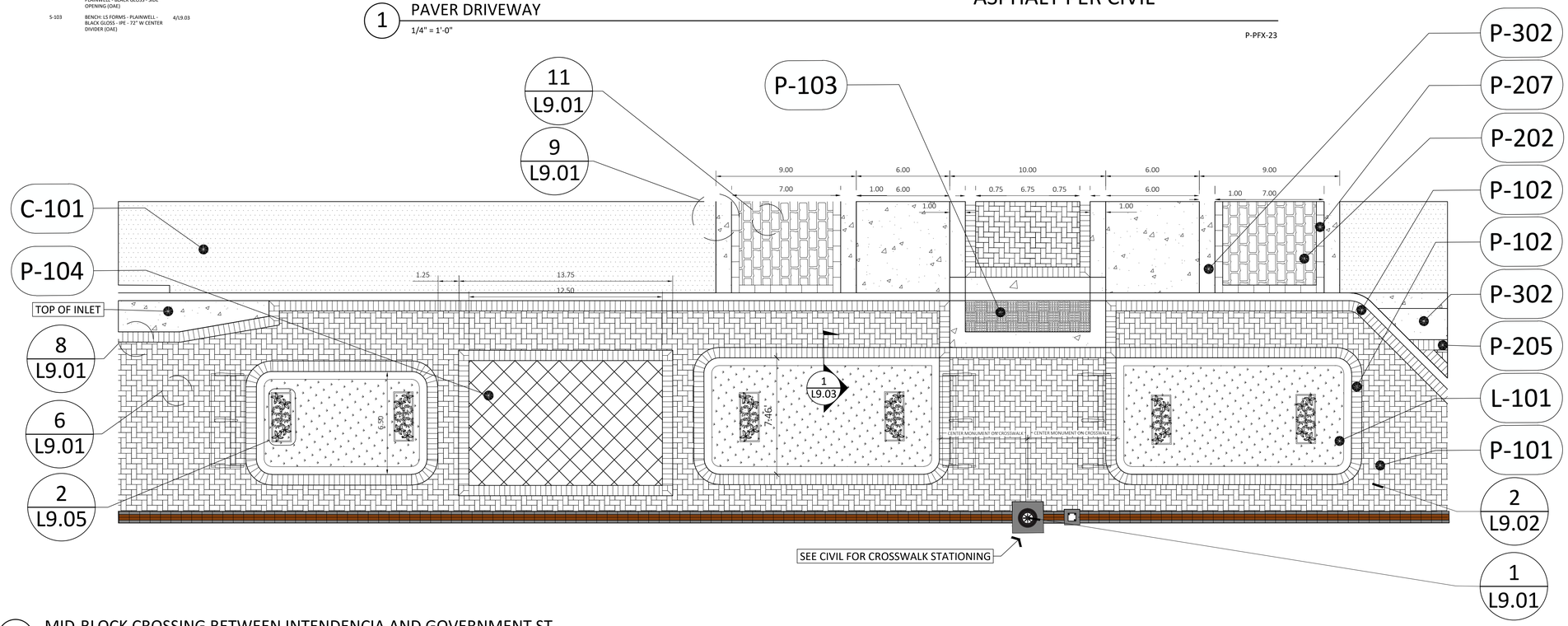
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P-206	A15 TRAIL	1/L9.01
P-207	BELGARD-CHARLESTONE-3PIECE RUNNING BOND- 6X12"- PERPENDICULAR TO PALAFOX CENTER LINE- 'TITANIUM COLOR'	
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1 PAVER DRIVEWAY

1/4" = 1'-0"

P-PFX-23



2 MID-BLOCK CROSSING BETWEEN INTENDENCIA AND GOVERNMENT ST

1/4" = 1'-0"

P-PFX-24

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THE NEW PALAFOX
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PHASE C - HARDSCAPE INSETS

SIGNATURE BLOCK

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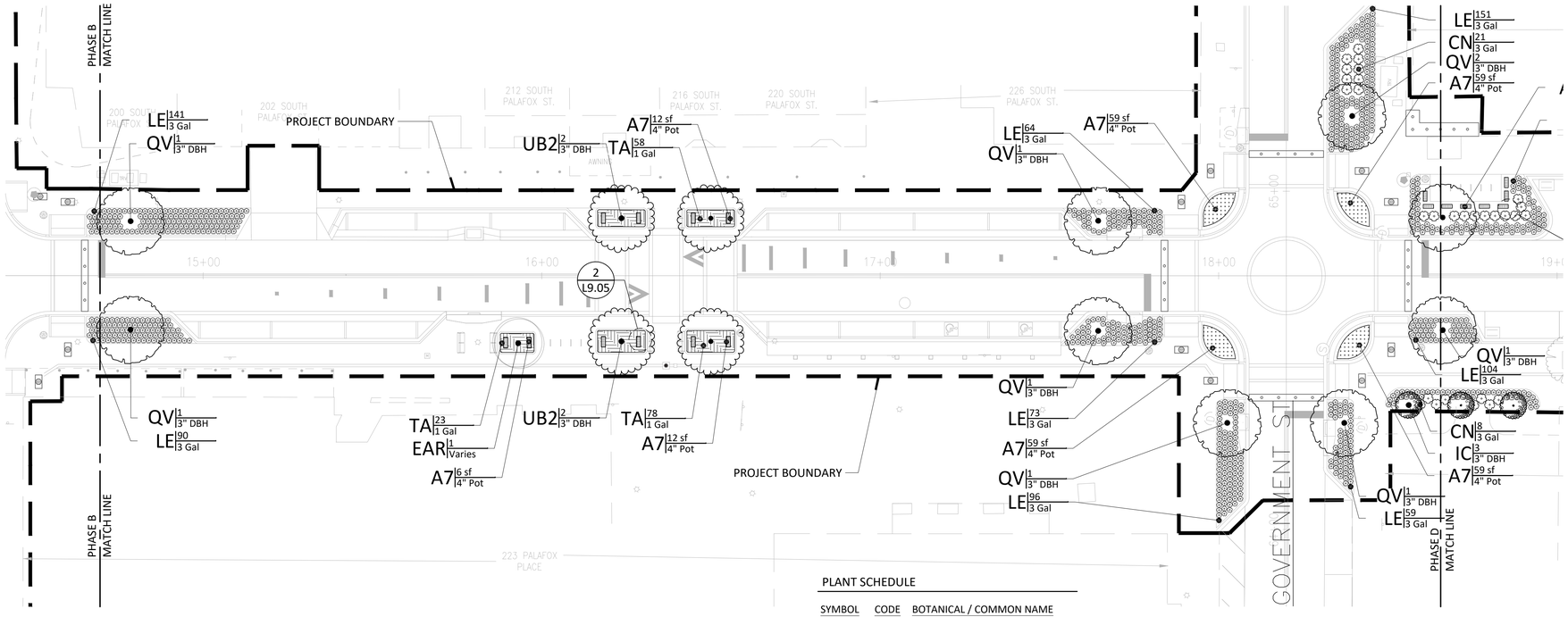
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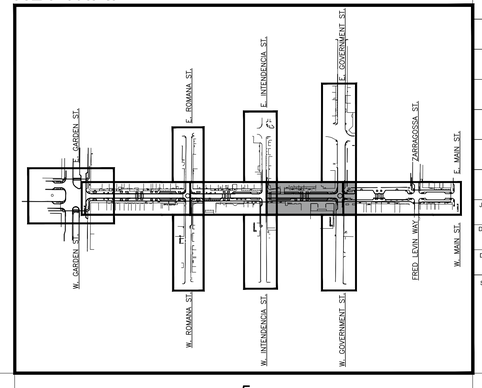


PLANT SCHEDULE

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	RM	EPOXY BOUND RUBBER MULCH - BROWN
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NOTE: SEE PAGE L0.04 - LANDSCAPE KEY MAP SCHEDULE FOR SIZE/CONTAINER AND SPACING REQUIREMENTS.

KEY MAP



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NORTH

GRAPHIC SCALE 0 10' 20' 40' 1 IN = 20 FT

INTENDENCIA ST. TO GOVERNMENT ST.

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S. PALAFOX STREET, PENSACOLA FL 32502

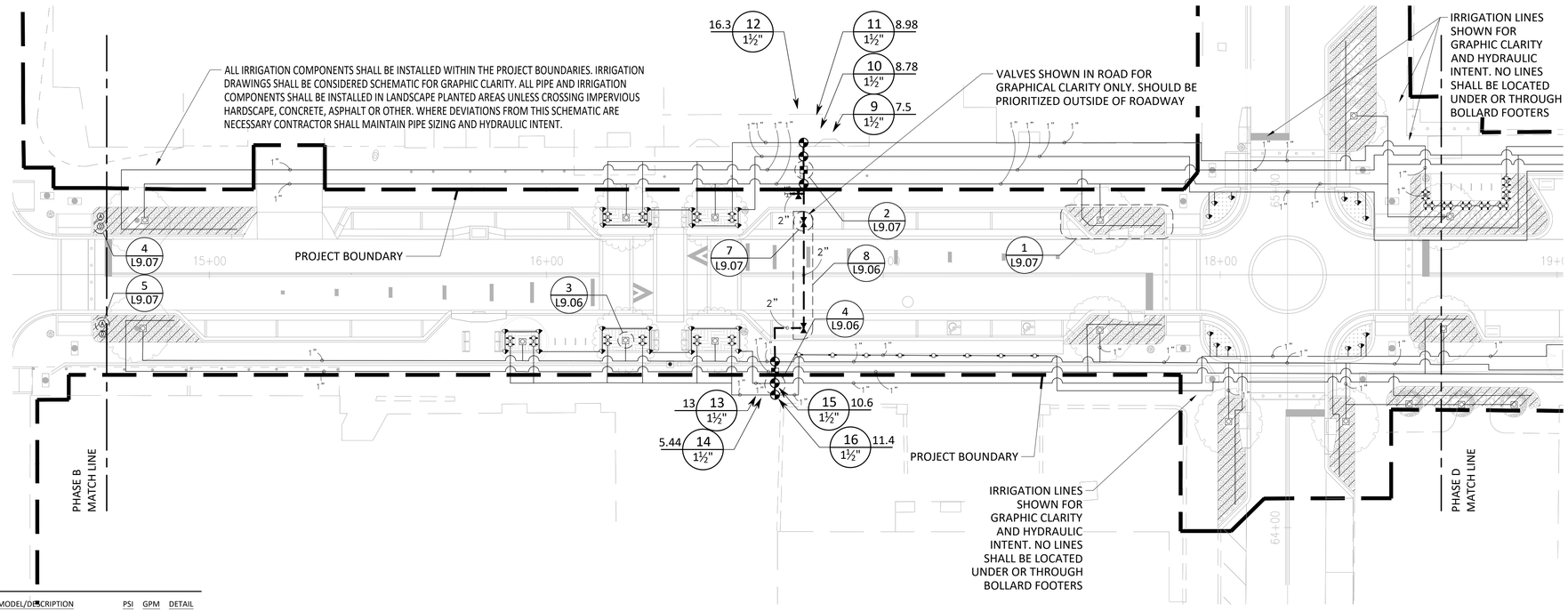
PHASE C - LANDSCAPE PLAN

SIGNATURE BLOCK

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CHECKED BY: BA
DATE: 08/29/2025
SHEET NO.: L3.21

100% CONSTRUCTION DOCUMENTS - NOT FOR CONSTRUCTION



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	GPM	DETAIL
⊠	RAIN BIRD 1800-1400 FLOOD 1402 FIXED FLOW RATE 0.25 GPM - 2.0 GPM, FULL CIRCLE BUBBLER, 1/2" FIPT.	50	0.5	3/L9.06

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	DETAIL
	RAIN BIRD XCZ-150-LCS 1-1/2" HIGH FLOW CONTROL ZONE KIT, FOR LARGE COMMERCIAL DRIP ZONES. 1-1/2" PEB GLOBE VALVE WITH SINGLE 1-1/2" PRESSURE REGULATING 40PSI QUICK-CHECK BASKET FILTER. FLOW RANGE: 15-62 GPM.		2/L9.07
90 180 360	RAIN BIRD XERI-SPRAY - SINGLE HEAD ADJUSTABLE FLOW/RADIUS, 10-32 SELF-TAPPING THREADED INLET. IDEAL FOR GROUND COVER, MASS PLANTINGS, ANNUAL FLOWER BEDS AND CONTAINERS.	20	1/L9.06
90 180 360	RAIN BIRD XERI-SPRAY - VERADECK PLANTER ADJUSTABLE FLOW/RADIUS, 10-32 SELF-TAPPING THREADED INLET. IDEAL FOR GROUND COVER, MASS PLANTINGS, ANNUAL FLOWER BEDS AND CONTAINERS.	20	
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFDE-06-18 XFDE ON-SURFACE PRESSURE COMPENSATING LANDSCAPE DRIPLINE. 0.6 GPH EMITTERS AT 18IN. O.C. DRIPLINE LATERALS SPACED AT RR APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. UV & KINK RESISTANT. USE XF INSERT FITTINGS.	30	1/L9.07

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
	RAIN BIRD PEB 1-1/2" 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.	4/L9.06
	MAINLINE ISOLATION VALVE 2" BRONZE GATE VALVE - CLASS 125 - CROSS HANDLE NON-RISING STEM-200 PSI. THREADED END CONNECTIONS WITH ADAPTERS TO HDPE MAINLINE.	7/L9.07
A	DRIP AIR RELIEF VALVE	5/L9.07
D	DRIP DRAIN VALVE	4/L9.07
C	RAIN BIRD ESPLXIVM-LXMM 60 STATION, 2-WIRE CONTROLLER W/ SMART VALVE TECHNOLOGY. (1) ESPLXIVM 60-STATION, INDOOR/OUTDOOR, PLASTIC WALL-MOUNT ENCLOSURE. INSTALLED IN LXMM POWDER COATED, METAL WALL-MOUNTED CABINET. SYSTEM REQUIREMENTS: RAIN BIRD LXIVM-XXX INTEGRATED VALVE MODULES & 2-WIRE DEVICES. GROUND SYSTEM W/ (X) LXIVMSD SURGE DEVICE IN RAIN BIRD ROUND VALVE BOXES. INSTALL PER MANUFACTURERS RECOMMENDATIONS.	8/L9.07
RFS	RAIN BIRD WR2-RFS WIRELESS RAIN/FREEZE SENSOR.	9/L9.07
M1 2"	EXISTING ECUA METER EXISTING ECUA METER SHALL BE PRESERVED. A NEW DUCTILE IRON VALVE BOX AND LID SHALL BE INSTALLED. NEW DOUBLE CHECK VALVE BACKFLOW DEVICE SHALL BE INSTALLED BELOW GRADE IN A NEW DUCTILE IRON VALVE BOX PER LOCAL CODES.	
M2 2"	EXISTING ECUA METER EXISTING ECUA METER SHALL BE PRESERVED. A NEW DUCTILE IRON VALVE BOX AND LID SHALL BE INSTALLED. NEW DOUBLE CHECK VALVE BACKFLOW DEVICE SHALL BE INSTALLED BELOW GRADE IN A NEW DUCTILE IRON VALVE BOX PER LOCAL CODES.	

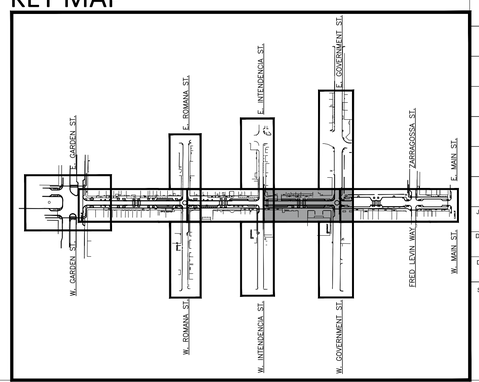
IRRIGATION LATERAL LINE: HDPE PE4710 DR 11 1"

IRRIGATION LATERAL LINE: HDPE PE4710 DR 11 2"

IRRIGATION MAINLINE: HDPE PE4710 DR 11 2"

Valve Callout
Valve Number
Valve Flow
Valve Size

KEY MAP



Jerry Pate Design
301 Schubert Drive – Pensacola, FL 32504
850-479-4853 www.JerryPateDesign.com

NORTH

GRAPHIC SCALE 1 IN = 20 FT
0 10' 20' 40'

INTENDENCIA ST. TO GOVERNMENT ST.

THE NEW PALAFOX
S. PALAFOX STREET, PENSACOLA FL 32502

PHASE C - IRRIGATION PLAN

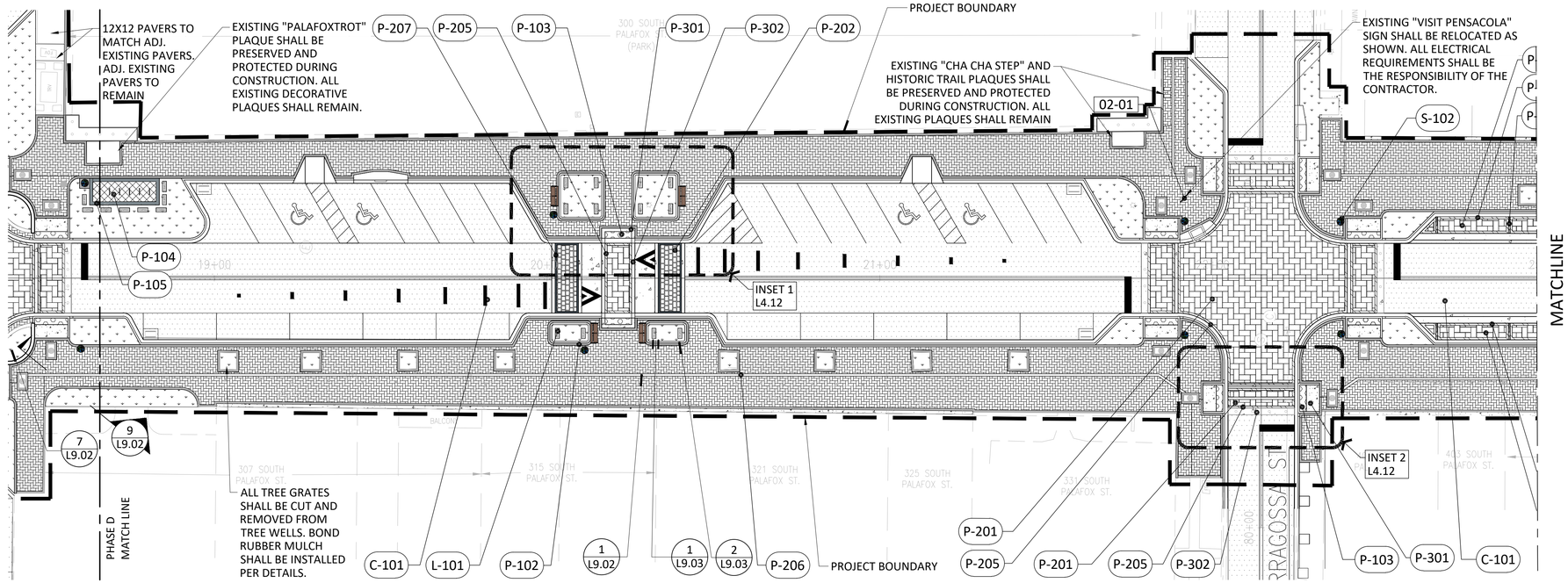
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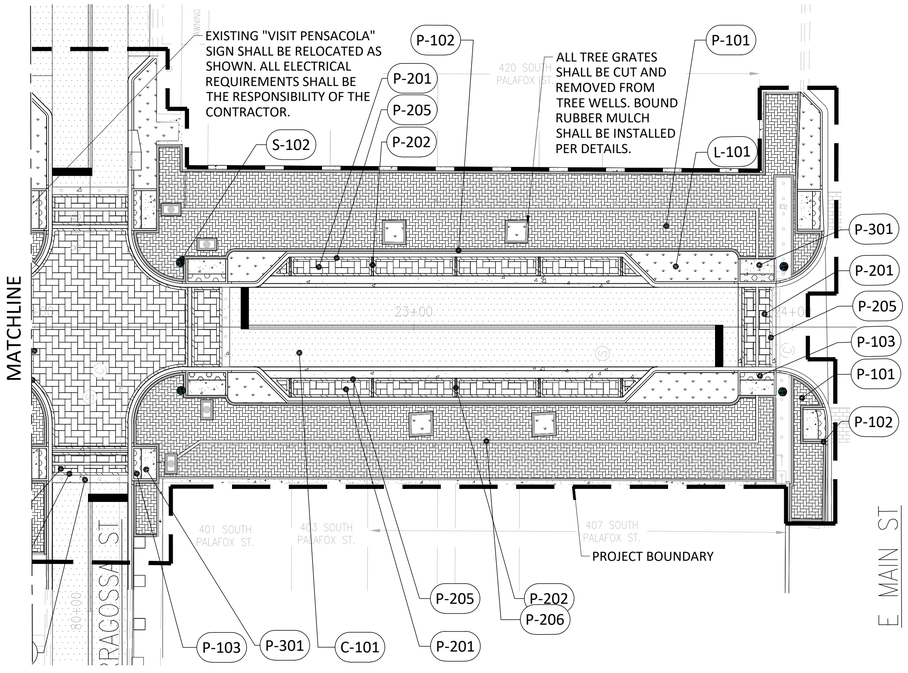
REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012
DRAWN BY: EH
CHECKED BY: BA
DATE: 08/29/2025
SHEET NO.: L3.31

100% CONSTRUCTION DOCUMENTS - NOT FOR CONSTRUCTION

NOTE: WHERE EXISTING PAVER AND PROPOSED PAVERS MEET, CONTRACTOR SHALL MIX PAVERS ACCORDING TO DETAILS TO BLEND AND BREAK UP THE HARDLINE.





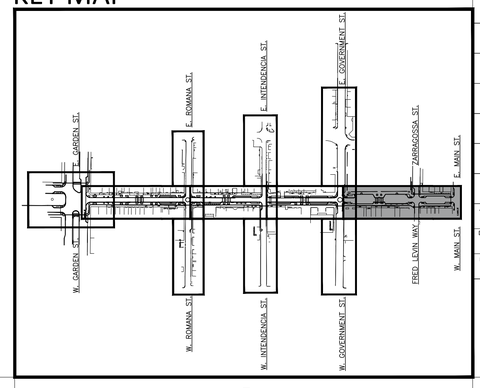
REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION	DETAIL
02 Existing Conditions			
	02-01	"VISIT PENSACOLA" DIGITAL SIGN TO BE RELOCATED	
Civil Sitework			
	C-101	ASPHALT - SEE CIVIL	
Landscape			
	L-101	PROPOSED LANDSCAPE AREA - SEE PLANTING PLAN	1/L9.04
Paving			
	P-101	PEDESTRIAN FIELD PAVER - GLEN GARY-IRON CITY-FULL RANGE 4X8X2 ¼ (OAE)-HERRINGBONE	2/L9.02
	P-102	PEDESTRIAN PAVER BORDER - GLEN GARY-IRON CITY-FULL RANGE 4 X8X2 ¼ (OAE)- SOLDIER CORSE	3/L9.02
	P-103	HARDSCAPES USA -BREMEN ADA X8X2 3/8- 'MAIZE' SOLID COLOR BASKET WEAVE PATTERN (OAE)	5/L9.02
	P-104	ARTISTIC PAVERS-GRANITELOCK 12X12X1 5/8-ARCTIC WHITE & STERLING GRAY (OAE)-ALTERNATE CHECKERBOARD	
	P-105	ARTISTIC PAVERS-GRANITELOCK 12X12X1 5/8-STEARLING GRAY(OAE) RUNNING BOND BOARDER	
	P-106	STREETBOND DECORATIVE COATING -SEE DETAIL FOR FDOT CROSSWALK	12/L9.01
Vehicular Paver			
	P-201	VEHICULAR FIELD PAVER - GLEN GARY-IRON CITY-FULL RANGE 4 X 8 X 2 3/4 (OAE)-HERRINGBONE	7/L9.01
	P-202	BELGARD - CHARLESTONE - 3 PIECE RUNNING BOND - PERPENDICLUAR TO PALAFOX CENTERLINE- 'TITANIUM COLOR'	11/L9.01
	P-205	VEHICULAR PAVER - GLEN GARY-IRON CITY- FULL RANGE 4 X 8 X 2 3/4 (OAE)- SOLDIER CORSE	7/L9.01
	P-206	A1S TRAIL	1/L9.01
	P-207	BELGARD-CHARLESTONE-3PIECE RUNNING BOND- 6X12"- PERPENDICULAR TO PALAFOX CENTER LINE- 'TITANIUM COLOR'	
Concrete			
	P-301	PEDESTRIAN CONCRETE - PER CIVIL	
	P-302	VEHICULAR CONCRETE - PER CIVIL	

REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION	DETAIL
Planters			
	L-201	WALLOWA DESIGN - HCMP002-BLK - 14X14X30H	2/L9.05
HCMP003	L-202	WALLOWA DESIGN - HCMP004-BLK - 38X15X15H	2/L9.05
Site Furnishings			
	S-101	BIKE RACK: LS FORMS - RING - STAINLESS STEEL - EMBEDDED (OAE)	3/L9.03
	S-102	LITTER RECEPTACLE: LS FORMS - PLAINWELL - BLACK GLOSS - SIDE OPENING (OAE)	5/L9.03
	S-103	BENCH: LS FORMS - PLAINWELL - BLACK GLOSS - IPE - 72" W CENTER DIVIDER (OAE)	4/L9.03

KEY MAP



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NORTH

GRAPHIC SCALE 1 IN = 20 FT (0, 10', 20', 40')

GOVERNMENT ST. TO MAIN ST.

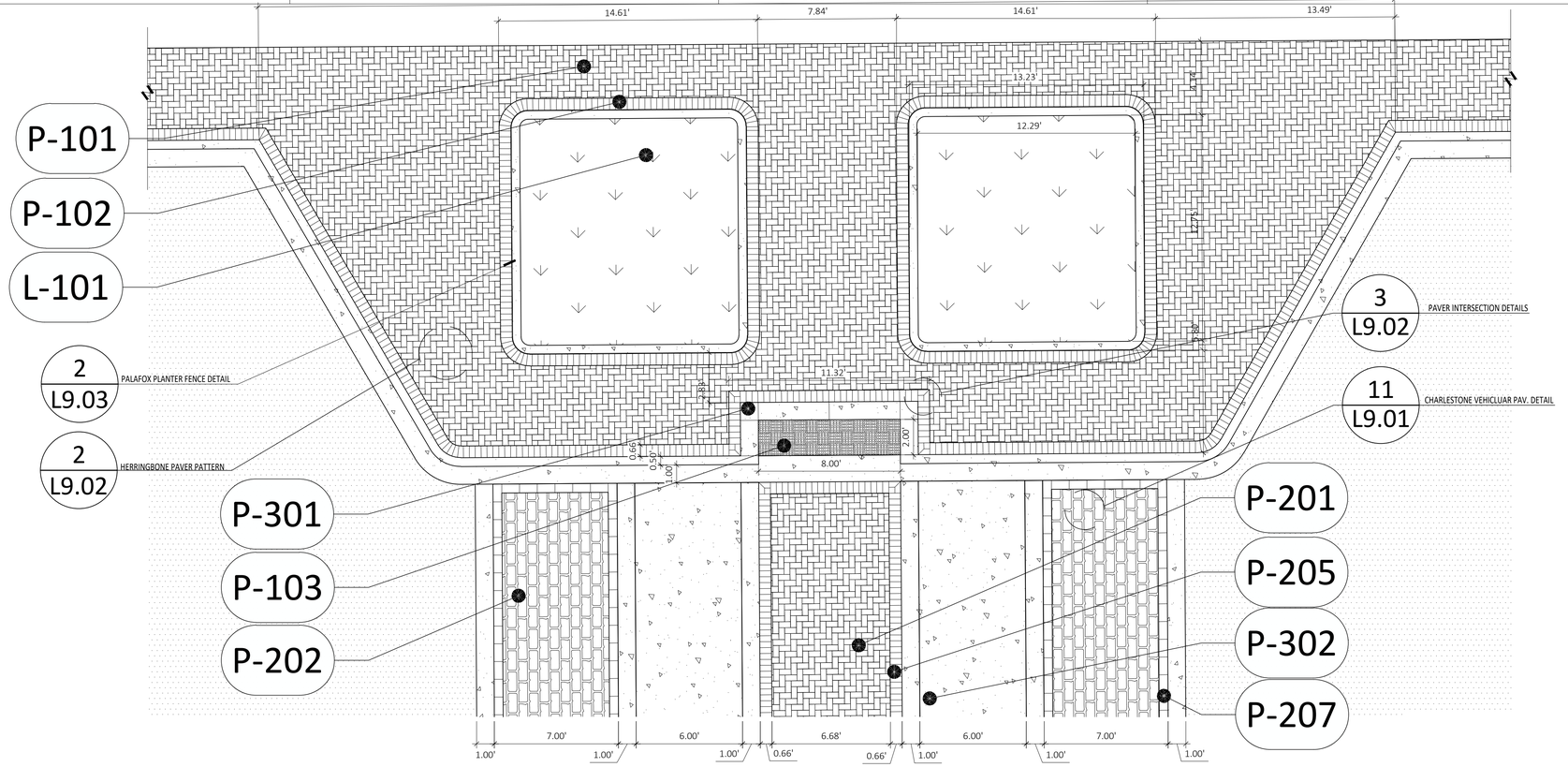
THE NEW PALAFOX
S. PALAFOX STREET, PENSACOLA FL 32502
PHASE D - HARDSCAPE PLAN

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012
DRAWN BY: EH
CHECKED BY: BA
DATE: 08/29/2025
SHEET NO.: L4.11

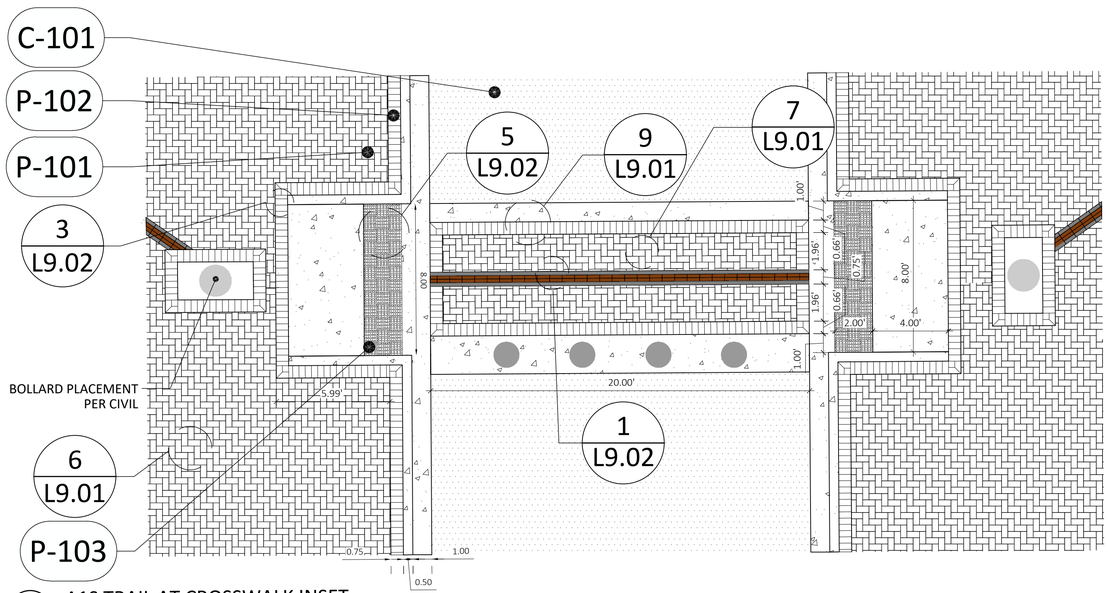
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1 PLAZA FERDINAND MID-BLOCK CROSSING

1/4"=1'-0"

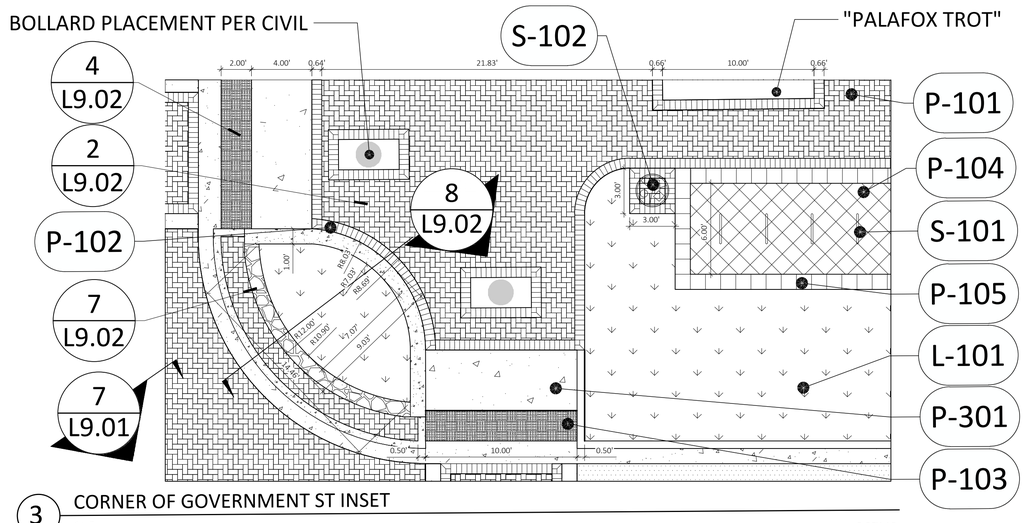
P-PFX-12



2 A1S TRAIL AT CROSSWALK INSET

1/4"=1'-0"

P-PFX-15



3 CORNER OF GOVERNMENT ST INSET

1"=5'

P-PFX-16

REFERENCE NOTES SCHEDULE

CODE	DESCRIPTION	DETAIL
02 Existing Conditions		
02-01	"VISIT PENSACOLA" DIGITAL SIGN TO BE RELOCATED	
Civil Sitework		
C-101	ASPHALT - SEE CIVIL	
General Sitework		
G-101	PALAFOX PLANTER	2/L9.03
Landscape		
L-101	PROPOSED LANDSCAPE AREA - SEE PLANTING PLAN	1/L9.04
Planters		
L-201	WALLOWA DESIGN - HCMP002-BLK - 14X14X30H	2/L9.05
L-202	WALLOWA DESIGN - HCMP004-BLK - 38X15X15H	2/L9.05
Paving		
P-101	PEDESTRIAN FIELD PAVER - GLEN GARY-IRON CITY-FULL RANGE 4X8X2 ¼ (OAE)-HERRINGBONE	2/L9.02
P-102	PEDESTRIAN PAVER BORDER - GLEN GARY-IRON CITY-FULL RANGE 4 X8X2 ¼ (OAE)- SOLDIER CORSE	3/L9.02
P-103	HARDSCAPES LISA -BREMEN ADA X8X2 3/8- 'MAIZE' SOLID COLOR BASKET WEAVE PATTERN (OAE)	5/L9.02
P-104	ARTISTIC PAVERS-GRANITELOCK 12X12X1 5/8-ARCTIC WHITE & STERLING GRAY (OAE)-ALTERNATE CHECKERBOARD	
P-105	ARTISTIC PAVERS-GRANITELOCK 12X12X1 5/8-STEARLING GRAY(OAE) RUNNING BOND BOARDER	
Vehicular Paver		
P-201	VEHICULAR FIELD PAVER - GLEN GARY-IRON CITY-FULL RANGE 4 X 8 X 2 3/4 (OAE)-HERRINGBONE	7/L9.01
P-202	BELGARD - CHARLESTONE - 3 PIECE RUNNING BOND - PERPENDICLUAR TO PALAFOX CENTERLINE- 'TITANIUM COLOR'	11/L9.01
P-205	VEHICULAR PAVER - GLEN GARY-IRON CITY- FULL RANGE 4 X 8 X 2 3/4 (OAE)- SOLDIER CORSE	7/L9.01
P-206	A1S TRAIL	1/L9.01
P-207	BELGARD-CHARLESTONE-3PIECE RUNNING BOND- 6X12"- PERPENDICULAR TO PALAFOX CENTER LINE- 'TITANIUM COLOR'	
Concrete		
P-301	PEDESTRIAN CONCRETE - PER CIVIL	
P-302	VEHICULAR CONCRETE - PER CIVIL	
Site Furnishings		
S-101	BIKE RACK: LS FORMS - RING - STAINLESS STEEL - EMBEDDED (OAE)	3/L9.03
S-102	LITTER RECEPTACLE: LS FORMS - PLAINWELL - BLACK GLOSS - SIDE OPENING (OAE)	5/L9.03
S-103	BENCH: LS FORMS - PLAINWELL - BLACK GLOSS - IPE - 72" W CENTER DIVIDER (OAE)	4/L9.03

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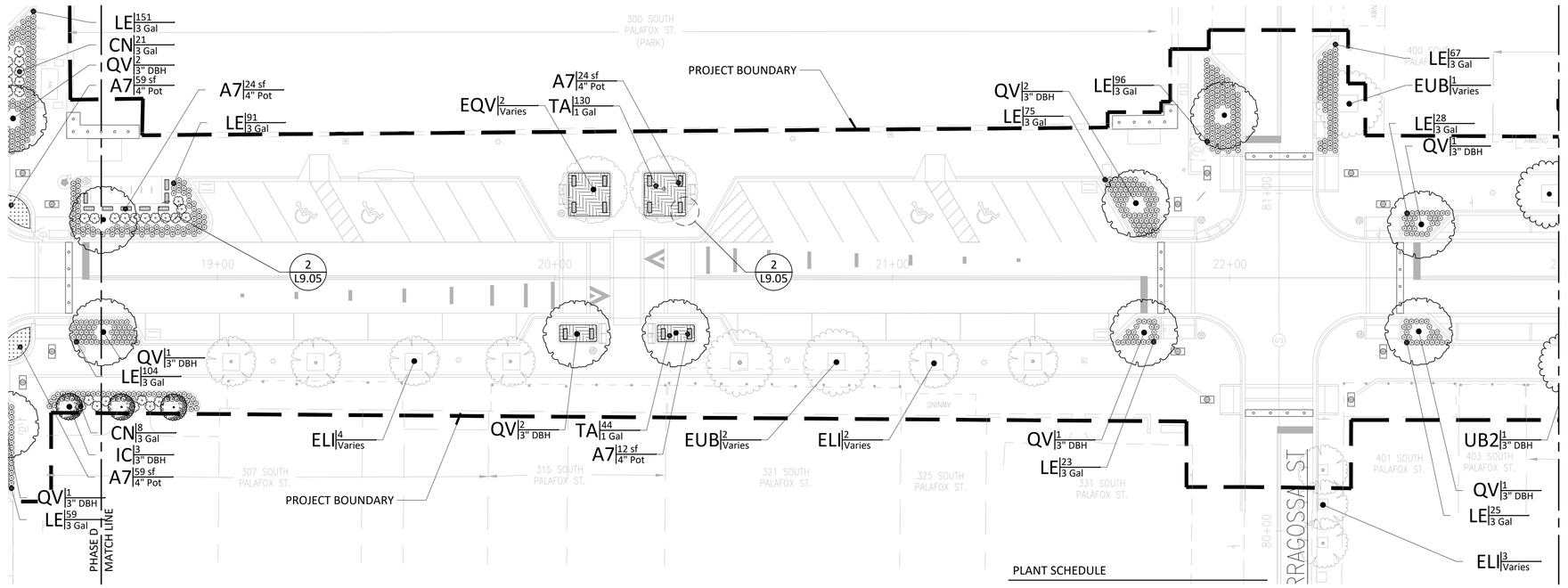
THE NEW PALAFOX
S. PALAFOX STREET, PENSACOLA FL 32502
PHASE D - HARDSCAPE INSETS

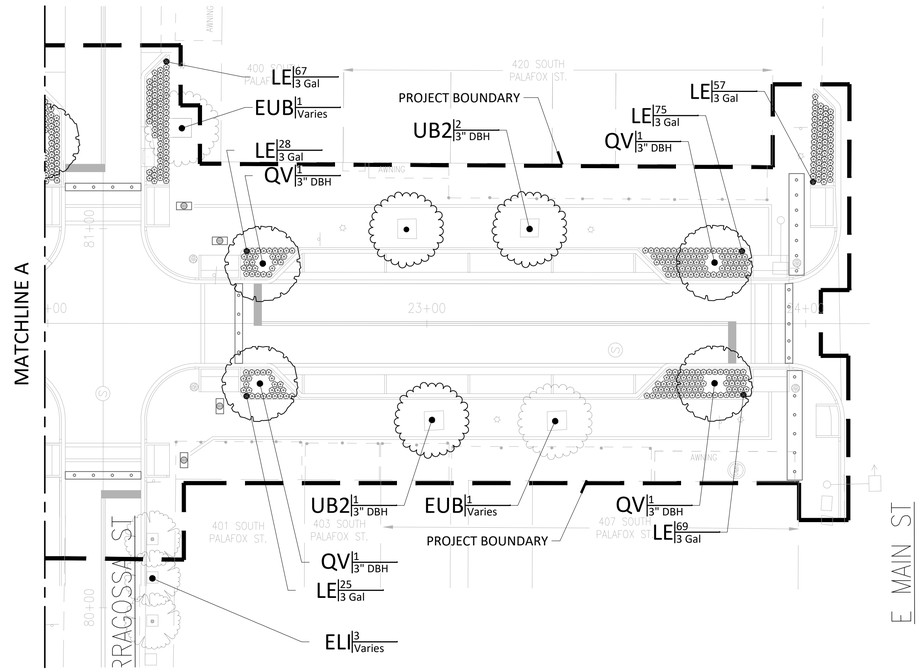
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REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012
DRAWN BY: EH
CHECKED BY: BA
DATE: 08/29/2025
SHEET NO.: L4.12

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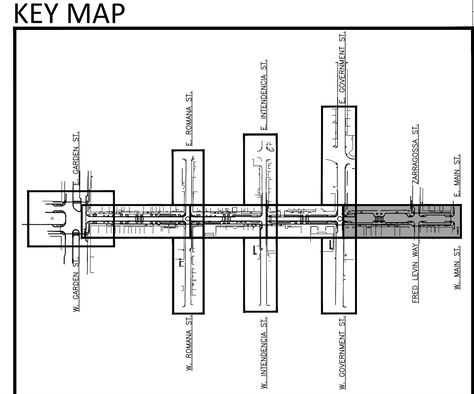


PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME
TREES		
	IC	ILEX CASSINE DAHOON HOLLY - TREE FORM
	QV	QUERCUS VIRGINIANA SOUTHERN LIVE OAK
	SS	SABAL PALMETTO CABBAGE PALMETTO
	UB2	ULMUS PARVIFOLIA 'BOSQUE' BOSQUE® LACEBARK ELM
EXISTING TO REMAIN		
	ERM	ACER RUBRUM RED MAPLE
	EAR	ILEX X ATTENUATA EAST PALATKA HOLLY
	ELI	LAGERSTROEMIA INDICA CRAPE MYRTLE
	EQV	QUERCUS VIRGINIANA SOUTHERN LIVE OAK
	EUB	ULMUS PARVIFOLIA 'BOSQUE' BOSQUE® LACEBARK ELM
SHRUBS		
	CN	CENCHRUS SETACEUS 'RUBRUM' PURPLE FOUNTAIN GRASS
	LE	LIRIOPE MUSCARI EMERALD GODDESS® LILYTURF
	MC	MUHLENBERGIA CAPILLARIS PINK MUHLY GRASS
GROUND COVERS		
	A7	ANNUALS
	RM	EPOXY BOUND RUBBER MULCH - BROWN
	TA	TRACHELOSPERMUM ASIATICUM ASIATIC JASMINE

NOTE: SEE PAGE L0.04 - LANDSCAPE KEY MAP SCHEDULE FOR SIZE/CONTAINER AND SPACING REQUIREMENTS.

KEY MAP



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850-479-4853 www.JerryPateDesign.com

NORTH

GRAPHIC SCALE 0 10' 20' 40' 1 IN = 20 FT

GOVERNMENT ST. TO MAIN ST.

THE NEW PALAFOX
S. PALAFOX STREET, PENSACOLA FL 32502

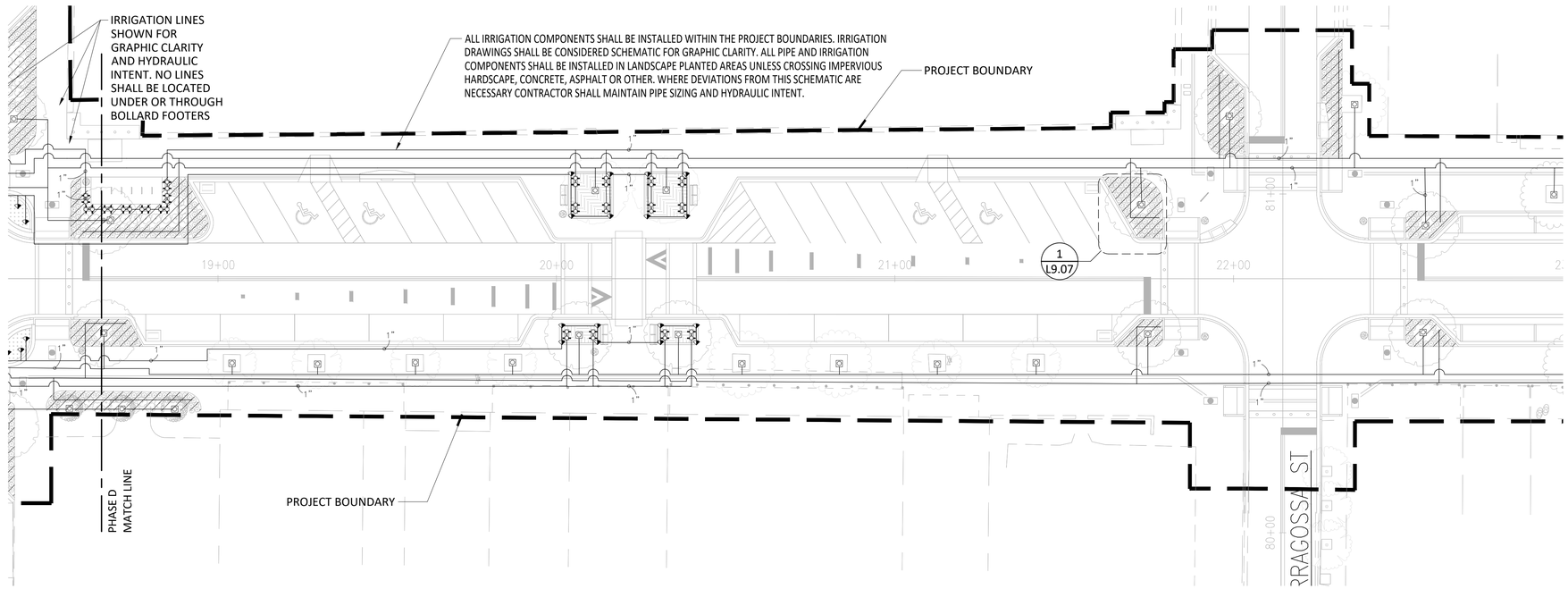
PHASE D - LANDSCAPE PLAN

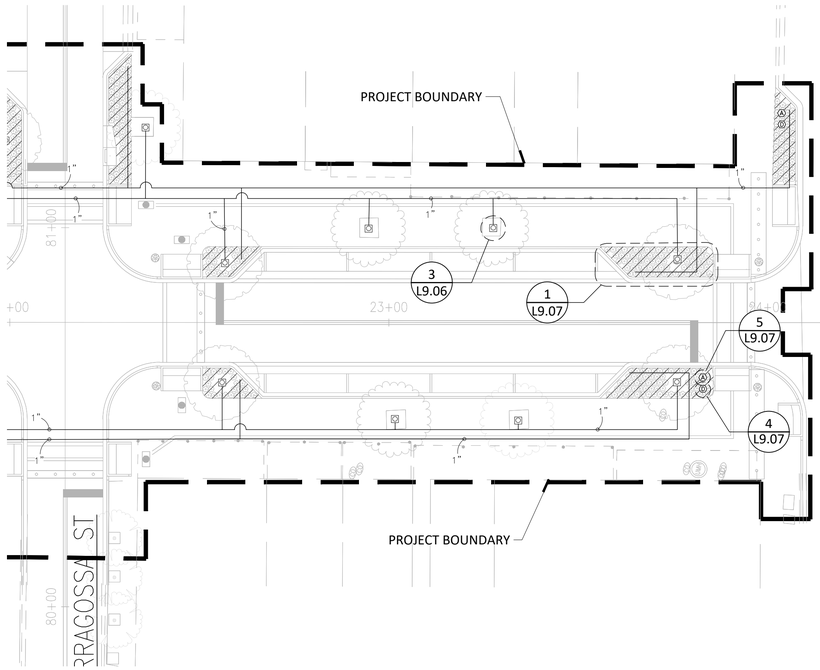
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REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012
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DATE: 08/29/2025
SHEET NO.: L4.21

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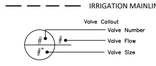


IRRIGATION SCHEDULE

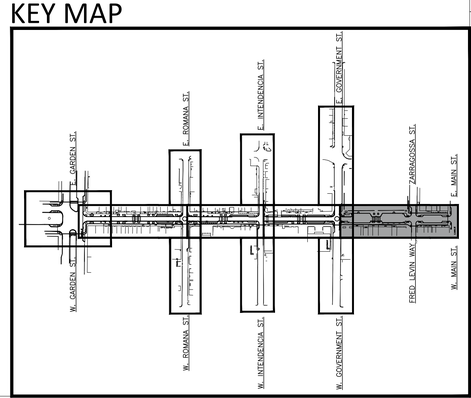
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	GPM	DETAIL
	RAIN BIRD 1800-1400 FLOOD 1402 FIXED FLOW RATE 0.25 GPM - 2.0 GPM, FULL CIRCLE BUBBLER, 1/2" FIPT.	50	0.5	3/L9.06

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	DETAIL
	RAIN BIRD XCZ-150-LCS 1-1/2" HIGH FLOW CONTROL ZONE KIT, FOR LARGE COMMERCIAL DRIP ZONES. 1-1/2" PEB GLOBE VALVE WITH SINGLE 1-1/2" PRESSURE REGULATING 40PSI QUICK-CHECK BASKET FILTER. FLOW RANGE: 15-62 GPM.		2/L9.07
90 180 360	RAIN BIRD XERI-SPRAY - SINGLE HEAD ADJUSTABLE FLOW/RADIUS, 10-32 SELF-TAPPING THREADED INLET. IDEAL FOR GROUND COVER, MASS PLANTINGS, ANNUAL FLOWER BEDS AND CONTAINERS.	20	1/L9.06
90 180 360	RAIN BIRD XERI-SPRAY - VERADECK PLANTER ADJUSTABLE FLOW/RADIUS, 10-32 SELF-TAPPING THREADED INLET. IDEAL FOR GROUND COVER, MASS PLANTINGS, ANNUAL FLOWER BEDS AND CONTAINERS.	20	
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFDE-06-18 XFDE ON-SURFACE PRESSURE COMPENSATING LANDSCAPE DRIPLINE. 0.6 GPH EMITTERS AT 18IN. O.C. DRIPLINE LATERALS SPACED AT RR APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. UV & KINK RESISTANT. USE XF INSERT FITTINGS.	30	1/L9.07

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
	RAIN BIRD PEB 1-1/2" 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.	4/L9.06
	MAINLINE ISOLATION VALVE 2" BRONZE GATE VALVE - CLASS 125 - CROSS HANDLE NON-RISING STEM-200 PSI. THREADED END CONNECTIONS WITH ADAPTERS TO HDPE MAINLINE.	7/L9.07
A	DRIP AIR RELIEF VALVE	5/L9.07
D	DRIP DRAIN VALVE	4/L9.07
C	RAIN BIRD ESPLXIVM-LXMM 60 STATION, 2-WIRE CONTROLLER W/ SMART VALVE TECHNOLOGY. (1) ESPLXIVM 60-STATION, INDOOR/OUTDOOR, PLASTIC WALL-MOUNT ENCLOSURE. INSTALLED IN LXMM POWDER COATED, METAL WALL-MOUNTED CABINET. SYSTEM REQUIREMENTS: RAIN BIRD LXIVM-XXX INTEGRATED VALVE MODULES & 2-WIRE DEVICES. GROUND SYSTEM W/ (X) LXIVMSD SURGE DEVICE IN RAIN BIRD ROUND VALVE BOXES. INSTALL PER MANUFACTURERS RECOMMENDATIONS.	8/L9.07
WR2	RAIN BIRD WR2-RFS WIRELESS RAIN/FREEZE SENSOR.	9/L9.07
M1 1"	EXISTING ECUA METER EXISTING ECUA METER SHALL BE PRESERVED. A NEW DUCTILE IRON VALVE BOX AND LID SHALL BE INSTALLED. NEW DOUBLE CHECK VALVE BACKFLOW DEVICE SHALL BE INSTALLED BELOW GRADE IN A NEW DUCTILE IRON VALVE BOX PER LOCAL CODES.	
M5 1"	EXISTING ECUA METER EXISTING ECUA METER SHALL BE PRESERVED. A NEW DUCTILE IRON VALVE BOX AND LID SHALL BE INSTALLED. NEW DOUBLE CHECK VALVE BACKFLOW DEVICE SHALL BE INSTALLED BELOW GRADE IN A NEW DUCTILE IRON VALVE BOX PER LOCAL CODES.	
	IRRIGATION LATERAL LINE: HDPE PE4710 DR 11 1"	
	IRRIGATION LATERAL LINE: HDPE PE4710 DR 11 2"	
	IRRIGATION MAINLINE: HDPE PE4710 DR 11 2"	



KEY MAP



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NORTH

GRAPHIC SCALE 1 IN = 20 FT
0 10' 20' 40'

GOVERNMENT ST. TO MAIN ST.

THE NEW PALAFOX
S. PALAFOX STREET, PENSACOLA FL 32502

PHASE D - IRRIGATION PLAN

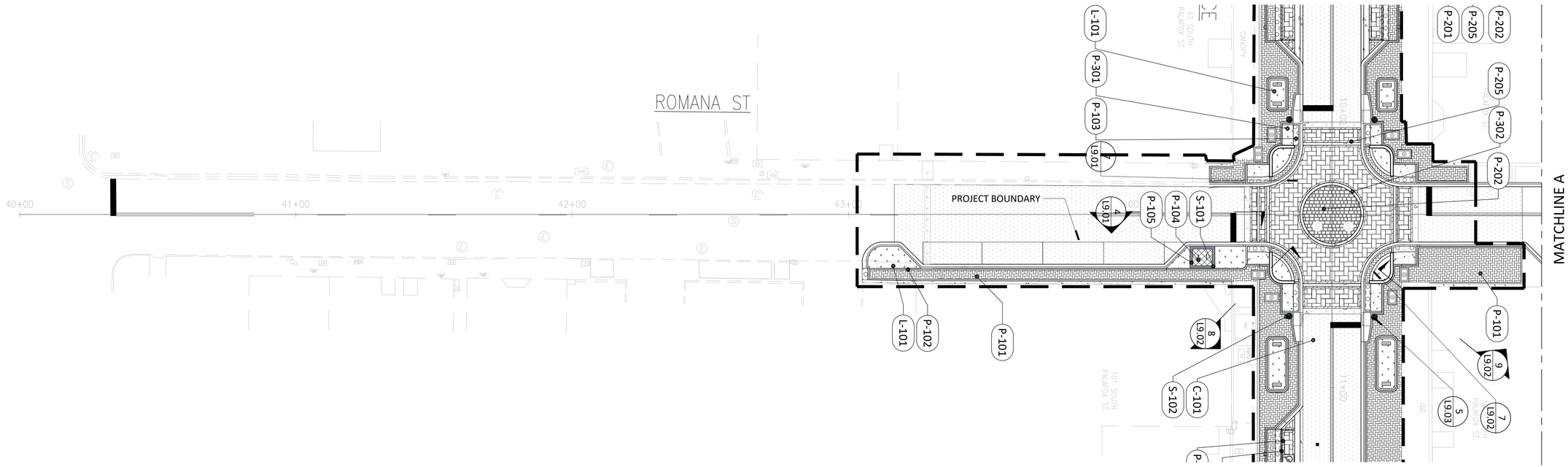
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REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012
DRAWN BY: EH
CHECKED BY: BA
DATE: 08/29/2025
SHEET NO.: L4.31

100% CONSTRUCTION DOCUMENTS - NOT FOR CONSTRUCTION

NOTE: WHERE EXISTING PAVER AND PROPOSED PAVERS MEET, CONTRACTOR SHALL MIX PAVERS ACCORDING TO DETAILS TO BLEND AND BREAK UP THE HARDLINE.





NO HARDSCAPE IN THIS VIEWPORT

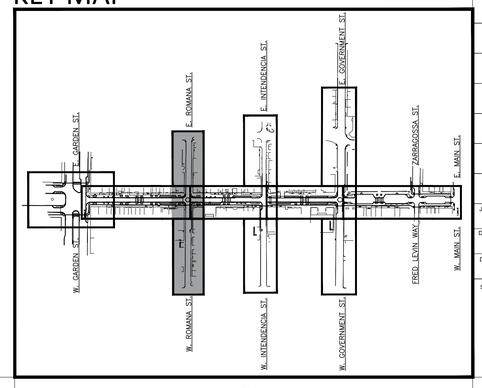
REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION	DETAIL
02 Existing Conditions			
	02-01	"VISIT PENSACOLA" DIGITAL SIGN TO BE RELOCATED	
Civil Sitework			
	C-101	ASPHALT - SEE CIVIL	
Landscape			
	L-101	PROPOSED LANDSCAPE AREA - SEE PLANTING PLAN	1/L9.04
Paving			
	P-101	PEDESTRIAN FIELD PAVER - GLEN GARY-IRON CITY-FULL RANGE 4X8X2 ¼ (OAE)-HERRINGBONE	2/L9.02
	P-102	PEDESTRIAN PAVER BORDER - GLEN GARY-IRON CITY-FULL RANGE 4 X8X2 ¼ (OAE)- SOLDIER CORSE	3/L9.02
	P-103	HARDSCAPES USA -BREMEN ADA X8X2 3/8- 'MAIZE' SOLID COLOR BASKET WEAVE PATTERN (OAE)	5/L9.02
	P-104	ARTISTIC PAVERS-GRANITELOCK 12X12X1 5/8-ARCTIC WHITE & STERLING GRAY (OAE)-ALTERNATE CHECKERBOARD	
	P-105	ARTISTIC PAVERS-GRANITELOCK 12X12X1 5/8-STEARLING GRAY(OAE) RUNNING BOND BOARDER	
	P-106	STREETBOND DECORATIVE COATING -SEE DETAIL FOR FDOT CROSSWALK	12/L9.01
Vehicular Paver			
	P-201	VEHICULAR FIELD PAVER - GLEN GARY-IRON CITY-FULL RANGE 4 X 8 X 2 3/4 (OAE)-HERRINGBONE	7/L9.01
	P-202	BELGARD - CHARLESTONE - 3 PIECE RUNNING BOND - PERPENDICLUAR TO PALAFOX CENTERLINE- 'TITANIUM COLOR'	11/L9.01
	P-205	VEHICULAR PAVER - GLEN GARY-IRON CITY- FULL RANGE 4 X 8 X 2 3/4 (OAE)- SOLDIER CORSE	7/L9.01
	P-206	A1S TRAIL	1/L9.01
	P-207	BELGARD-CHARLESTONE-3PIECE RUNNING BOND- 6X12"- PERPENDICULAR TO PALAFOX CENTER LINE- 'TITANIUM COLOR'	
Concrete			
	P-301	PEDESTRIAN CONCRETE - PER CIVIL	
	P-302	VEHICULAR CONCRETE - PER CIVIL	

REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION	DETAIL
Planters			
	L-201	WALLOWA DESIGN - HCMP002-BLK - 14X14X30H	2/L9.05
HCMP002	L-202	WALLOWA DESIGN - HCMP004-BLK - 38X15X15H	2/L9.05
Site Furnishings			
	S-101	BIKE RACK: LS FORMS - RING - STAINLESS STEEL - EMBEDDED (OAE)	3/L9.03
	S-102	LITTER RECEPTACLE: LS FORMS - PLAINWELL - BLACK GLOSS - SIDE OPENING (OAE)	5/L9.03
	S-103	BENCH: LS FORMS - PLAINWELL - BLACK GLOSS - IPE - 72" W CENTER DIVIDER (OAE)	4/L9.03

KEY MAP



Jerry Pate Design
301 Schubert Drive – Pensacola, FL 32504
850-479-4653 www.JerryPateDesign.com

NORTH

0 10' 20' 40' GRAPHIC SCALE 1 IN = 20 FT

BAYLEN ST. TO JEFFERSON ST.

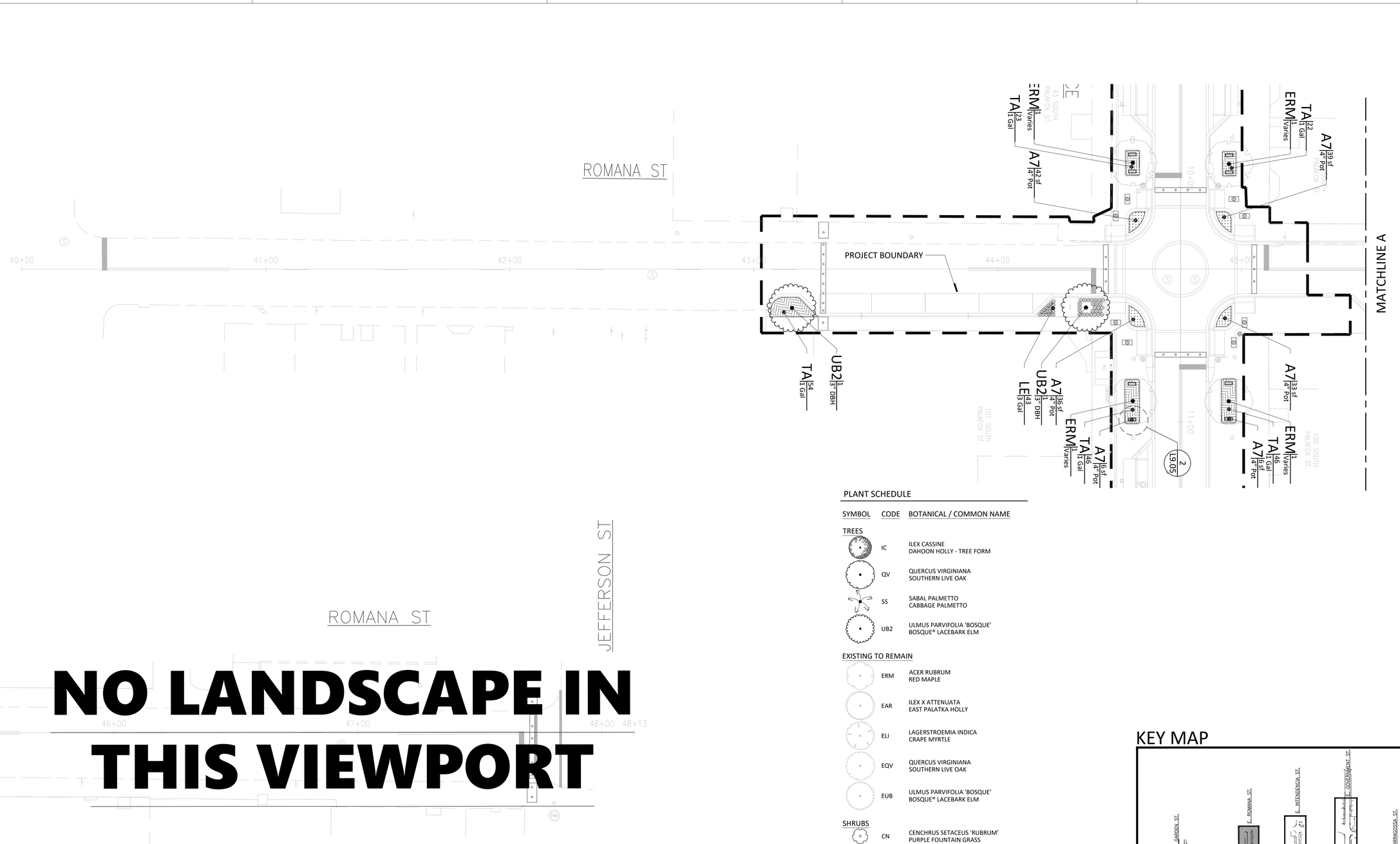
THE NEW PALAFOX
S. PALAFOX STREET, PENSACOLA FL 32502
PHASE E - HARDSCAPE PLAN

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012
DRAWN BY: EH
CHECKED BY: BA
DATE: 08/29/2025
SHEET NO.: L5.11

100% CONSTRUCTION DOCUMENTS - NOT FOR CONSTRUCTION

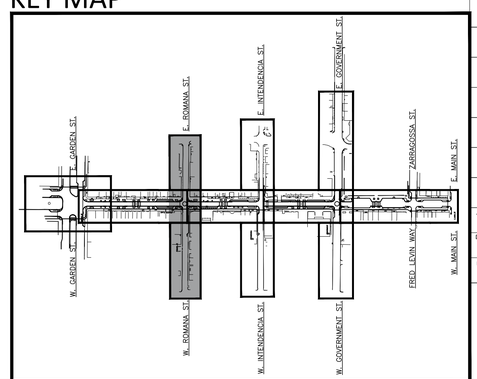


PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME
TREES		
	IC	ILEX CASSINE DAHOON HOLLY - TREE FORM
	QV	QUERCUS VIRGINIANA SOUTHERN LIVE OAK
	SS	SABAL PALMETTO CABBAGE PALMETTO
	UB2	ULMUS PARVIFOLIA 'BOSQUE' BOSQUE® LACEBARK ELM
EXISTING TO REMAIN		
	ERM	ACER RUBRUM RED MAPLE
	EAR	ILEX X ATTENUATA EAST PALATKA HOLLY
	ELI	LAGERSTROEMIA INDICA CRAPE MYRTLE
	EQV	QUERCUS VIRGINIANA SOUTHERN LIVE OAK
	EUB	ULMUS PARVIFOLIA 'BOSQUE' BOSQUE® LACEBARK ELM
SHRUBS		
	CN	CENCHRUS SETACEUS 'RUBRUM' PURPLE FOUNTAIN GRASS
	LE	LIRIOPE MUSCARI EMERALD GODDESS® LILYTURF
	MC	MUHLENBERGIA CAPILLARIS PINK MUHLY GRASS
GROUND COVERS		
	A7	ANNUALS
	RM	EPOXY BOUND RUBBER MULCH - BROWN
	TA	TRACHELOSPERMUM ASIATICUM ASIATIC JASMINE

NOTE: SEE PAGE L0.04 - LANDSCAPE KEY MAP SCHEDULE FOR SIZE/CONTAINER AND SPACING REQUIREMENTS.

KEY MAP



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0 10' 20' 40'

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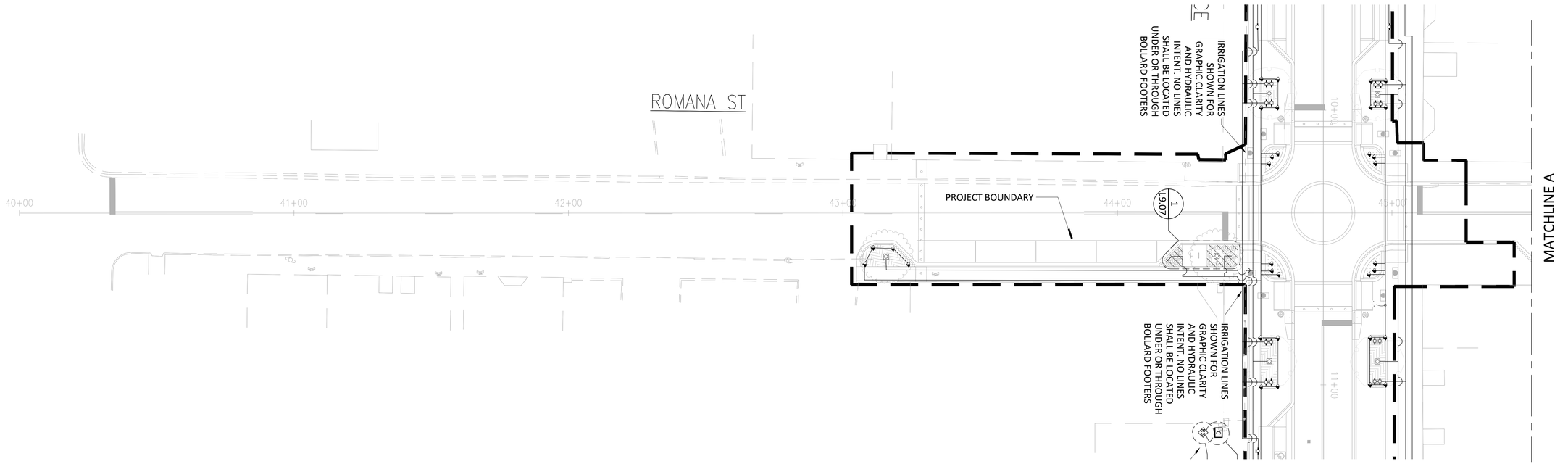
PHASE E - LANDSCAPE PLAN

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012
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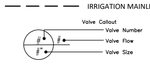
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IRRIGATION SCHEDULE

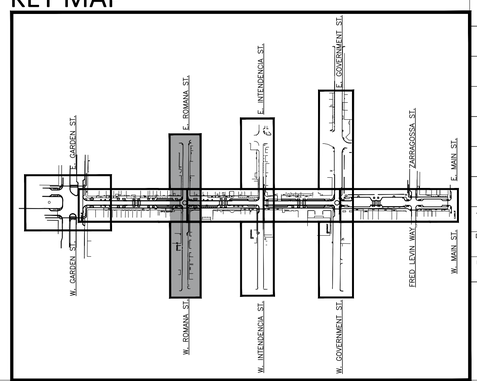
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	GPM	DETAIL
	RAIN BIRD 1800-1400 FLOOD 1402 FIXED FLOW RATE 0.25 GPM - 2.0 GPM, FULL CIRCLE BUBBLER, 1/2" FIPT.	50	0.5	3/19.06

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	DETAIL
	RAIN BIRD XCZ-150-LCS 1-1/2" HIGH FLOW CONTROL ZONE KIT, FOR LARGE COMMERCIAL DRIP ZONES. 1-1/2" PEB GLOBE VALVE WITH SINGLE 1-1/2" PRESSURE REGULATING 40PSI QUICK-CHECK BASKET FILTER. FLOW RANGE: 15-62 GPM.		2/19.07
90 180 360	RAIN BIRD XERI-SPRAY - SINGLE HEAD ADJUSTABLE FLOW/RADIUS, 10-32 SELF-TAPPING THREADED INLET. IDEAL FOR GROUND COVER, MASS PLANTINGS, ANNUAL FLOWER BEDS AND CONTAINERS.	20	1/19.06
90 180 360	RAIN BIRD XERI-SPRAY - VERADECK PLANTER ADJUSTABLE FLOW/RADIUS, 10-32 SELF-TAPPING THREADED INLET. IDEAL FOR GROUND COVER, MASS PLANTINGS, ANNUAL FLOWER BEDS AND CONTAINERS.	20	
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFDE-06-18 XFDE ON-SURFACE PRESSURE COMPENSATING LANDSCAPE DRIPLINE. 0.6 GPH EMITTERS AT 18IN. O.C. DRIPLINE LATERALS SPACED AT RR APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. UV & KINK RESISTANT. USE XF INSERT FITTINGS.	30	1/19.07

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
	RAIN BIRD PEB 1-1/2" 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.	4/L9.06
	MAINLINE ISOLATION VALVE 2" BRONZE GATE VALVE - CLASS 125 - CROSS HANDLE NON-RISING STEM-200 PSI. THREADED END CONNECTIONS WITH ADAPTERS TO HDPE MAINLINE.	7/L9.07
A	DRIP AIR RELIEF VALVE	5/L9.07
D	DRIP DRAIN VALVE	4/L9.07
C	RAIN BIRD ESPLXIVM-LXMM 60 STATION, 2-WIRE CONTROLLER W/ SMART VALVE TECHNOLOGY. (1) ESPLXIVM 60-STATION, INDOOR/OUTDOOR, PLASTIC WALL-MOUNT ENCLOSURE. INSTALLED IN LXMM POWDER COATED, METAL WALL-MOUNTED CABINET. SYSTEM REQUIREMENTS: RAIN BIRD LXIVM-XXX INTEGRATED VALVE MODULES & 2-WIRE DEVICES. GROUND SYSTEM W/ (X) LXIVMSD SURGE DEVICE IN RAIN BIRD ROUND VALVE BOXES. INSTALL PER MANUFACTURERS RECOMMENDATIONS.	8/L9.07
RS	RAIN BIRD WR2-RFS WIRELESS RAIN/FREEZE SENSOR.	9/L9.07
M1	EXISTING ECUA METER EXISTING ECUA METER SHALL BE PRESERVED. A NEW DUCTILE IRON VALVE BOX AND LID SHALL BE INSTALLED. NEW DOUBLE CHECK VALVE BACKFLOW DEVICE SHALL BE INSTALLED BELOW GRADE IN A NEW DUCTILE IRON VALVE BOX PER LOCAL CODES.	
M2	EXISTING ECUA METER EXISTING ECUA METER SHALL BE PRESERVED. A NEW DUCTILE IRON VALVE BOX AND LID SHALL BE INSTALLED. NEW DOUBLE CHECK VALVE BACKFLOW DEVICE SHALL BE INSTALLED BELOW GRADE IN A NEW DUCTILE IRON VALVE BOX PER LOCAL CODES.	
	IRRIGATION LATERAL LINE: HDPE PE4710 DR 11 1"	
	IRRIGATION LATERAL LINE: HDPE PE4710 DR 11 2"	
	IRRIGATION MAINLINE: HDPE PE4710 DR 11 2"	



KEY MAP



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NORTH

0 10' 20' 40' GRAPHIC SCALE 1 IN = 20 FT

BAYLEN ST. TO JEFFERSON ST.

THE NEW PALAFOX
S. PALAFOX STREET, PENSACOLA FL 32502

PHASE E - IRRIGATION PLAN

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012

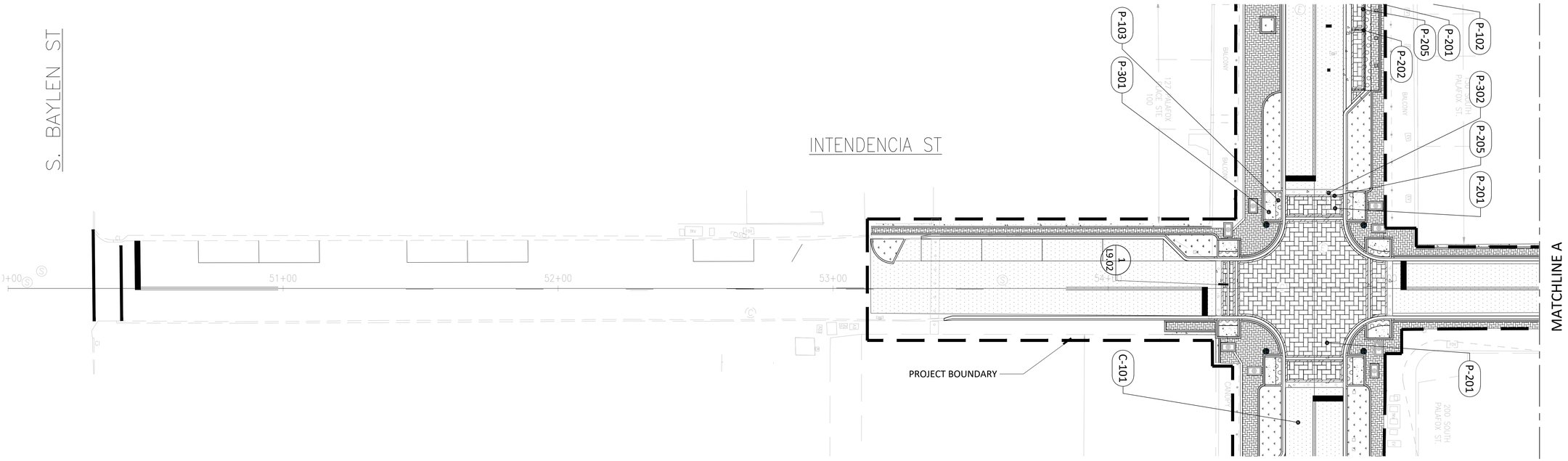
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EH	BA

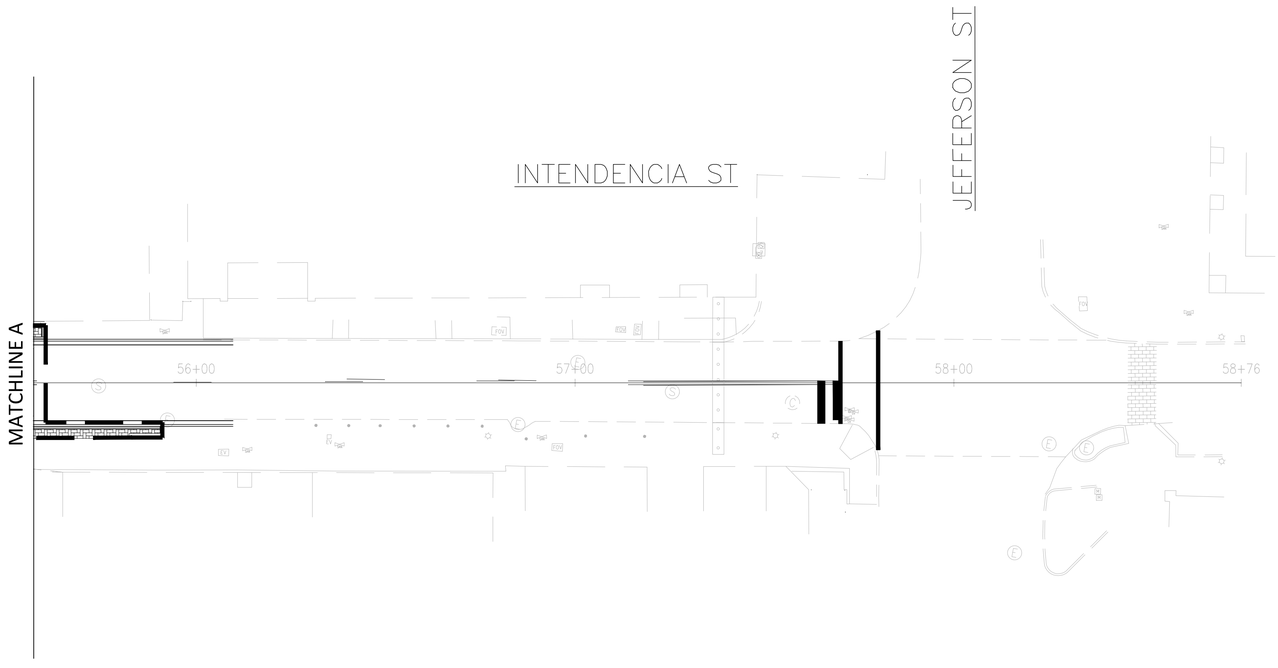
DATE: 08/29/2025

SHEET NO.: L5.31

100% CONSTRUCTION DOCUMENTS - NOT FOR CONSTRUCTION

NOTE: WHERE EXISTING PAVER AND PROPOSED PAVERS MEET, CONTRACTOR SHALL MIX PAVERS ACCORDING TO DETAILS TO BLEND AND BREAK UP THE HARDLINE.





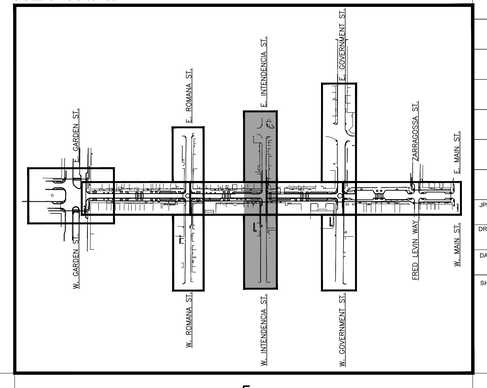
REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION	DETAIL
02 Existing Conditions			
	02-01	"VISIT PENSACOLA" DIGITAL SIGN TO BE RELOCATED	
Civil Sitework			
	C-101	ASPHALT - SEE CIVIL	
Landscape			
	L-101	PROPOSED LANDSCAPE AREA - SEE PLANTING PLAN	1/L9.04
Paving			
	P-101	PEDESTRIAN FIELD PAVER - GLEN GARY-IRON CITY-FULL RANGE 4X8X2 ¼ (OAE)-HERRINGBONE	2/L9.02
	P-102	PEDESTRIAN PAVER BORDER - GLEN GARY-IRON CITY-FULL RANGE 4 X8X2 ¼ (OAE)- SOLDIER CORSE	3/L9.02
	P-103	HARDSCAPES USA -BREMEN ADA X8X2 3/8- 'MAIZE' SOLID COLOR BASKET WEAVE PATTERN (OAE)	5/L9.02
	P-104	ARTISTIC PAVERS-GRANITELOCK 12X12X1 5/8-ARCTIC WHITE & STERLING GRAY (OAE)-ALTERNATE CHECKERBOARD	
	P-105	ARTISTIC PAVERS-GRANITELOCK 12X12X1 5/8-STEARLING GRAY(OAE) RUNNING BOND BOARDER	
	P-106	STREETBOND DECORATIVE COATING -SEE DETAIL FOR FDOT CROSSWALK	12/L9.01
Vehicular Paver			
	P-201	VEHICULAR FIELD PAVER - GLEN GARY-IRON CITY-FULL RANGE 4 X 8 X 2 3/4 (OAE)-HERRINGBONE	7/L9.01
	P-202	BELGARD - CHARLESTONE - 3 PIECE RUNNING BOND - PERPENDICLUAR TO PALAFOX CENTERLINE- 'TITANIUM COLOR'	11/L9.01
	P-205	VEHICULAR PAVER - GLEN GARY-IRON CITY- FULL RANGE 4 X 8 X 2 3/4 (OAE)- SOLDIER CORSE	7/L9.01
	P-206	A1S TRAIL	1/L9.01
	P-207	BELGARD-CHARLESTONE-3PIECE RUNNING BOND- 6X12"- PERPENDICULAR TO PALAFOX CENTER LINE- 'TITANIUM COLOR'	
Concrete			
	P-301	PEDESTRIAN CONCRETE - PER CIVIL	
	P-302	VEHICULAR CONCRETE - PER CIVIL	

REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION	DETAIL
Planters			
	L-201	WALLOWA DESIGN - HCMP002-BLK - 14X14X30H	2/L9.05
HCMP002	L-202	WALLOWA DESIGN - HCMP004-BLK - 38X15X15H	2/L9.05
Site Furnishings			
	S-101	BIKE RACK: LS FORMS - RING - STAINLESS STEEL - EMBEDDED (OAE)	3/L9.03
	S-102	LITTER RECEPTACLE: LS FORMS - PLAINWELL - BLACK GLOSS - SIDE OPENING (OAE)	5/L9.03
	S-103	BENCH: LS FORMS - PLAINWELL - BLACK GLOSS - IPE - 72" W CENTER DIVIDER (OAE)	4/L9.03

KEY MAP



Jerry Pate Design
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NORTH

GRAPHIC SCALE 1 IN = 20 FT
0 10' 20' 40'

BAYLEN ST. TO JEFFERSON ST.

THE NEW PALAFOX
S. PALAFOX STREET, PENSACOLA FL 32502

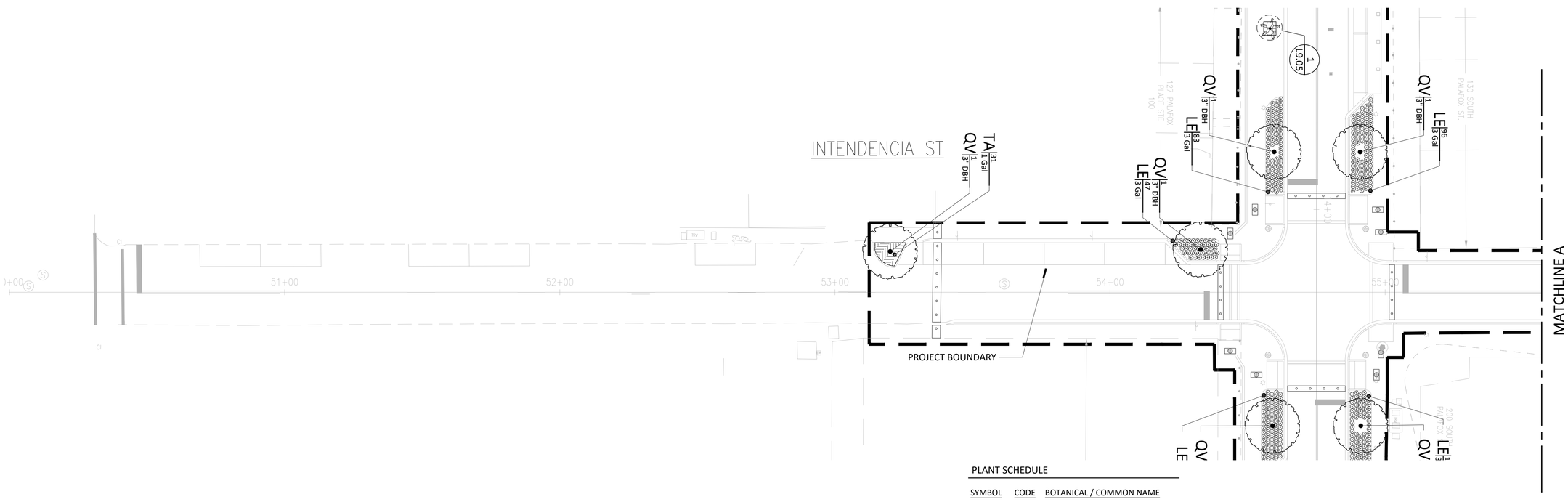
PHASE F - HARDSCAPE PLAN

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012
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DATE: 08/29/2025
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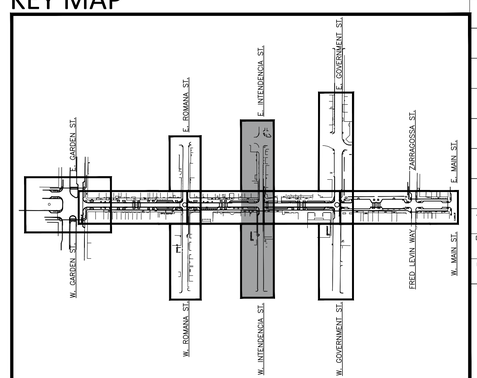
NO LANDSCAPE IN THIS VIEWPORT

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME
TREES		
	IC	ILEX CASSINE DAHOON HOLLY - TREE FORM
	QV	QUERCUS VIRGINIANA SOUTHERN LIVE OAK
	SS	SABAL PALMETTO CABBAGE PALMETTO
	UB2	ULMUS PARVIFOLIA 'BOSQUE' BOSQUE® LACEBARK ELM
EXISTING TO REMAIN		
	ERM	ACER RUBRUM RED MAPLE
	EAR	ILEX X ATTENUATA EAST PALATKA HOLLY
	ELI	LAGERSTROEMIA INDICA CRAPE MYRTLE
	EQV	QUERCUS VIRGINIANA SOUTHERN LIVE OAK
	EUB	ULMUS PARVIFOLIA 'BOSQUE' BOSQUE® LACEBARK ELM
SHRUBS		
	CN	CENCHRUS SETACEUS 'RUBRUM' PURPLE FOUNTAIN GRASS
	LE	LIRIOPE MUSCARI EMERALD GODDESS® LILYTURF
	MC	MUHLENBERGIA CAPILLARIS PINK MUHLY GRASS
GROUND COVERS		
	A7	ANNUALS
	RM	EPOXY BOUND RUBBER MULCH - BROWN
	TA	TRACHELOSPERMUM ASIATICUM ASIATIC JASMINE

NOTE: SEE PAGE L0.04 - LANDSCAPE KEY MAP SCHEDULE FOR SIZE/CONTAINER AND SPACING REQUIREMENTS.

KEY MAP



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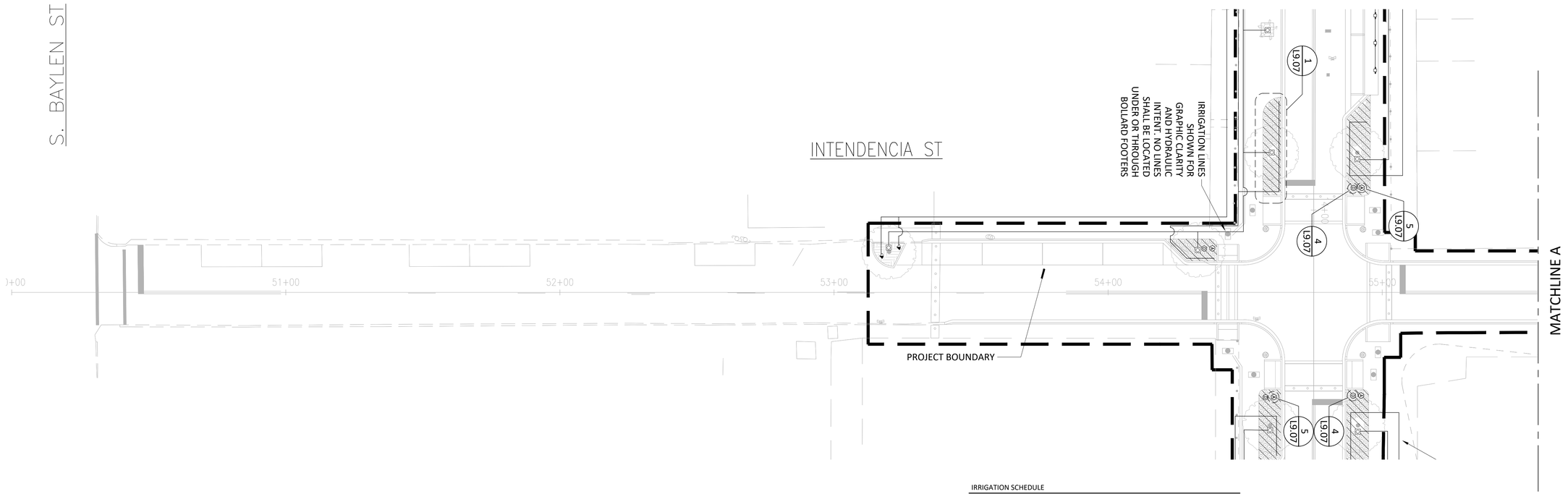
PHASE F - LANDSCAPE PLAN

SIGNATURE BLOCK

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IRRIGATION SCHEDULE

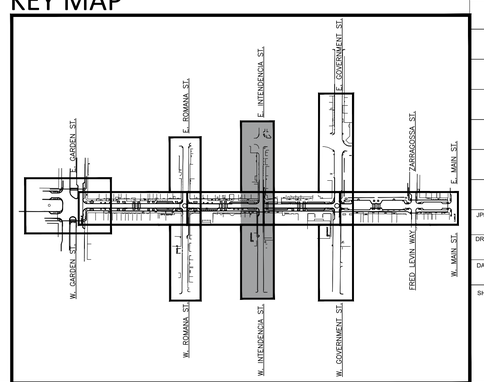
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	GPM	DETAIL
⧈	RAIN BIRD 1800-1400 FLOOD 1402 FIXED FLOW RATE 0.25 GPM - 2.0 GPM, FULL CIRCLE BUBBLER, 1/2" FIPT.	50	0.5	3/L9.06

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	DETAIL
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90 180 360	RAIN BIRD XERI-SPRAY - SINGLE HEAD ADJUSTABLE FLOW/RADIUS, 10-32 SELF-TAPPING THREADED INLET. IDEAL FOR GROUND COVER, MASS PLANTINGS, ANNUAL FLOWER BEDS AND CONTAINERS.	20	1/L9.06
90 180 360	RAIN BIRD XERI-SPRAY - VERADECK PLANTER ADJUSTABLE FLOW/RADIUS, 10-32 SELF-TAPPING THREADED INLET. IDEAL FOR GROUND COVER, MASS PLANTINGS, ANNUAL FLOWER BEDS AND CONTAINERS.	20	
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFDE-06-18 XFDE ON-SURFACE PRESSURE COMPENSATING LANDSCAPE DRIPLINE. 0.6 GPH EMITTERS AT 18IN. O.C. DRIPLINE LATERALS SPACED AT RR APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. UV & KINK RESISTANT. USE XF INSERT FITTINGS.	30	1/L9.07

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	RAIN BIRD PEB 1-1/2" 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.	4/L9.06
	MAINLINE ISOLATION VALVE 2" BRONZE GATE VALVE - CLASS 125 - CROSS HANDLE NON-RISING STEM-200 PSI. THREADED END CONNECTIONS WITH ADAPTERS TO HDPE MAINLINE.	7/L9.07
A	DRIP AIR RELIEF VALVE	5/L9.07
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RS	RAIN BIRD WR2-RFS WIRELESS RAIN/FREEZE SENSOR.	9/L9.07
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M2	EXISTING ECUA METER EXISTING ECUA METER SHALL BE PRESERVED. A NEW DUCTILE IRON VALVE BOX AND LID SHALL BE INSTALLED. NEW DOUBLE CHECK VALVE BACKFLOW DEVICE SHALL BE INSTALLED BELOW GRADE IN A NEW DUCTILE IRON VALVE BOX PER LOCAL CODES.	
	IRRIGATION LATERAL LINE: HDPE PE4710 DR 11 1"	
	IRRIGATION LATERAL LINE: HDPE PE4710 DR 11 2"	
	IRRIGATION MAINLINE: HDPE PE4710 DR 11 2"	

Valve Callout
Valve Number
Valve Flow
Valve Size

KEY MAP



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PHASE F - IRRIGATION PLAN

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

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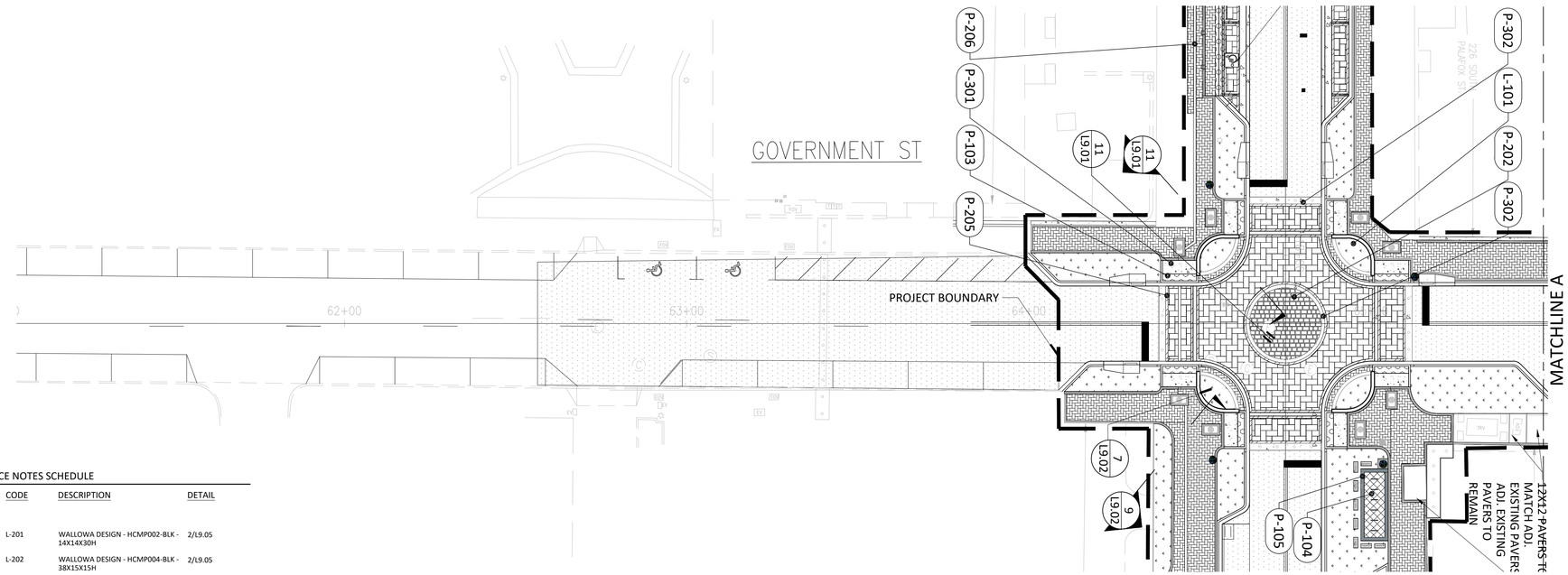
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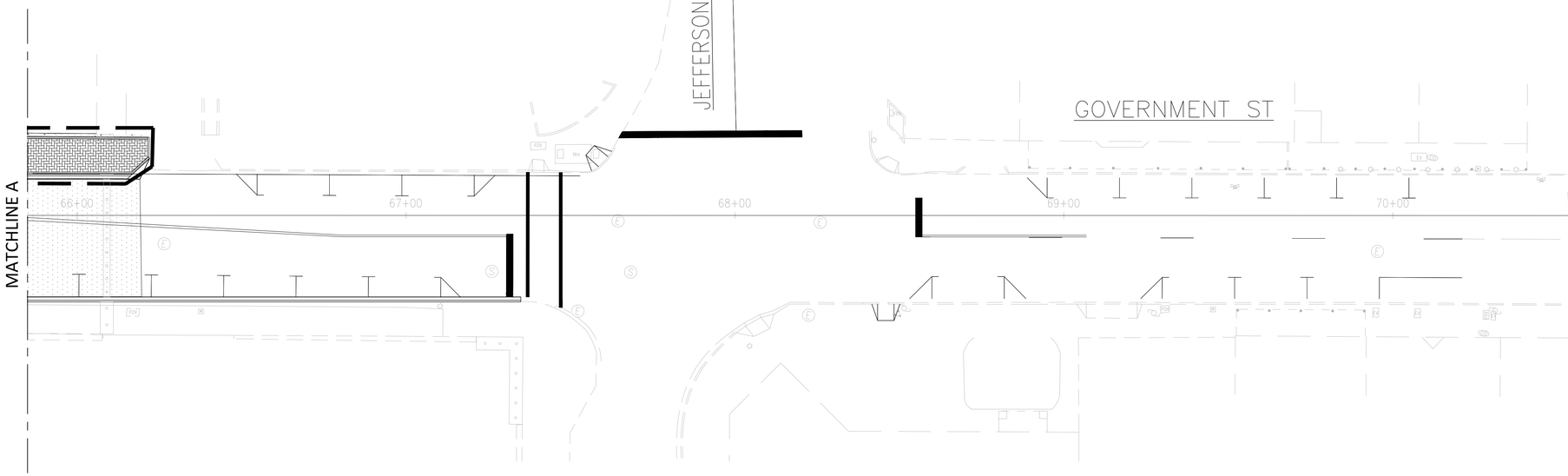
REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION	DETAIL
02 Existing Conditions			
	02-01	"VISIT PENSACOLA" DIGITAL SIGN TO BE RELOCATED	
Civil Sitework			
	C-101	ASPHALT - SEE CIVIL	
Landscape			
	L-101	PROPOSED LANDSCAPE AREA - SEE PLANTING PLAN	1/L9.04
Paving			
	P-101	PEDESTRIAN FIELD PAVER - GLEN GARY-IRON CITY-FULL RANGE 4X8X2 ¼ (OAE)-HERRINGBONE	2/L9.02
	P-102	PEDESTRIAN PAVER BORDER - GLEN GARY-IRON CITY-FULL RANGE 4 X8X2 ¼ (OAE)- SOLDIER CORSE	3/L9.02
	P-103	HARDSCAPES USA -BREMEN ADA X8X2 3/8- 'MAIZE' SOLID COLOR BASKET WEAVE PATTERN (OAE)	5/L9.02
	P-104	ARTISTIC PAVERS-GRANITELOCK 12X12X1 5/8-ARCTIC WHITE & STERLING GRAY (OAE)-ALTERNATE CHECKERBOARD	
	P-105	ARTISTIC PAVERS-GRANITELOCK 12X12X1 5/8-STEARLING GRAY(OAE) RUNNING BOND BOARDER	
	P-106	STREETBOND DECORATIVE COATING -SEE DETAIL FOR FDOT CROSSWALK	12/L9.01
Vehicular Paver			
	P-201	VEHICULAR FIELD PAVER - GLEN GARY-IRON CITY-FULL RANGE 4 X 8 X 2 3/4 (OAE)-HERRINGBONE	7/L9.01
	P-202	BELGARD - CHARLESTONE - 3 PIECE RUNNING BOND - PERPENDICLUAR TO PALAFOX CENTERLINE- 'TITANIUM COLOR'	11/L9.01
	P-205	VEHICULAR PAVER - GLEN GARY-IRON CITY- FULL RANGE 4 X 8 X 2 3/4 (OAE)- SOLDIER CORSE	7/L9.01
	P-206	A1S TRAIL	1/L9.01
	P-207	BELGARD-CHARLESTONE-3PIECE RUNNING BOND- 6X12"- PERPENDICULAR TO PALAFOX CENTER LINE- 'TITANIUM COLOR'	
Concrete			
	P-301	PEDESTRIAN CONCRETE - PER CIVIL	
	P-302	VEHICULAR CONCRETE - PER CIVIL	

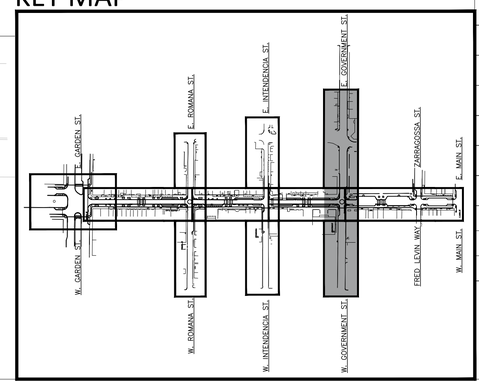
REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION	DETAIL
Planters			
	L-201	WALLOWA DESIGN - HCMP002-BLK - 14X14X30H	2/L9.05
HCMP002	L-202	WALLOWA DESIGN - HCMP004-BLK - 38X15X15H	2/L9.05
Site Furnishings			
	S-101	BIKE RACK: LS FORMS - RING - STAINLESS STEEL - EMBEDDED (OAE)	3/L9.03
	S-102	LITTER RECEPTACLE: LS FORMS - PLAINWELL - BLACK GLOSS - SIDE OPENING (OAE)	5/L9.03
	S-103	BENCH: LS FORMS - PLAINWELL - BLACK GLOSS - IPE - 72" W CENTER DIVIDER (OAE)	4/L9.03





KEY MAP



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NORTH

GRAPHIC SCALE 1 IN = 20 FT (0, 10', 20', 40')

BAYLEN ST. TO JEFFERSON ST.

THE NEW PALAFOX
S. PALAFOX STREET, PENSACOLA FL 32502

PHASE G - HARDSCAPE PLAN

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

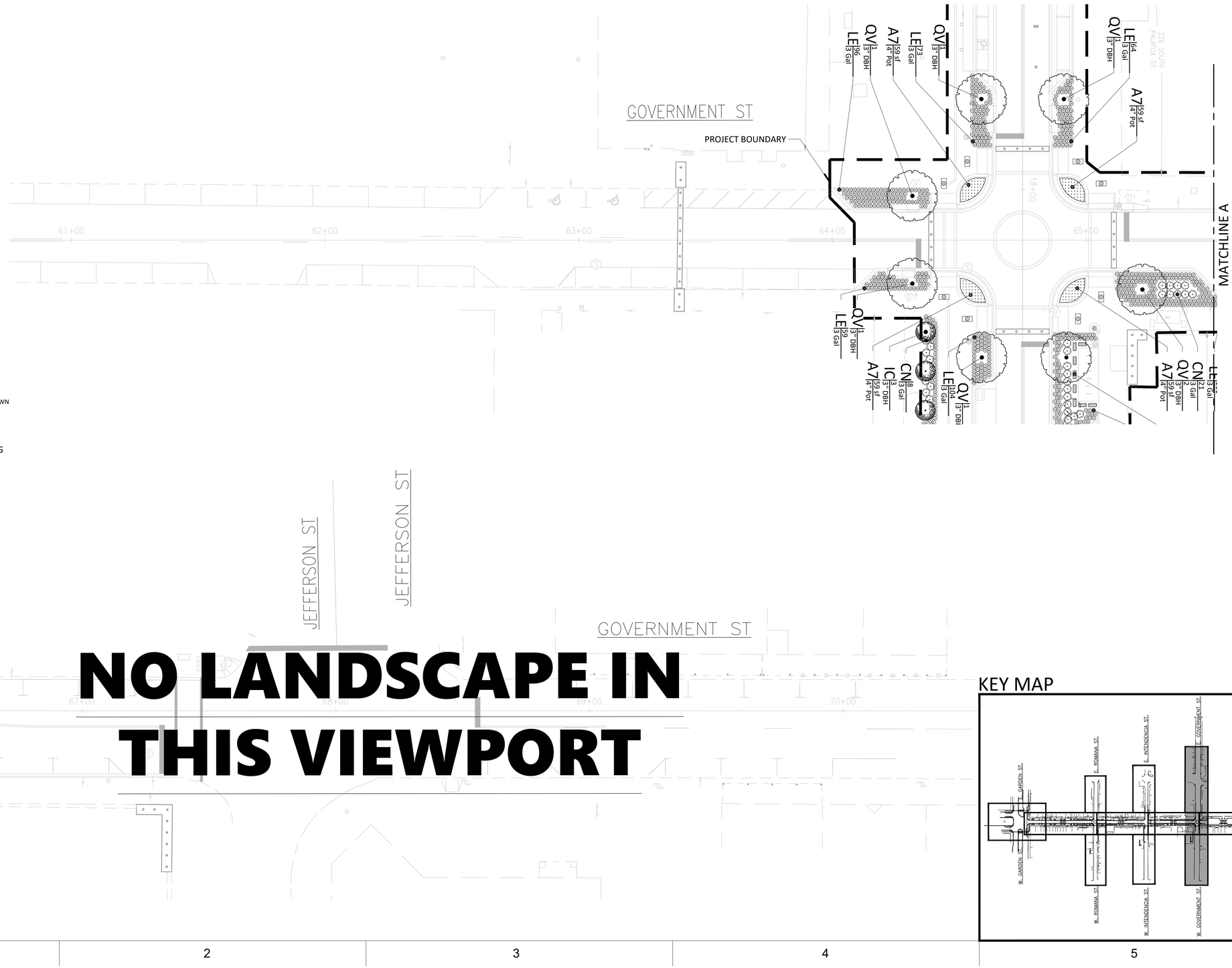
JPD PROJECT NUMBER: 24012
DRAWN BY: EH
CHECKED BY: BA
DATE: 08/29/2025
SHEET NO.: L7.11

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PLANT SCHEDULE

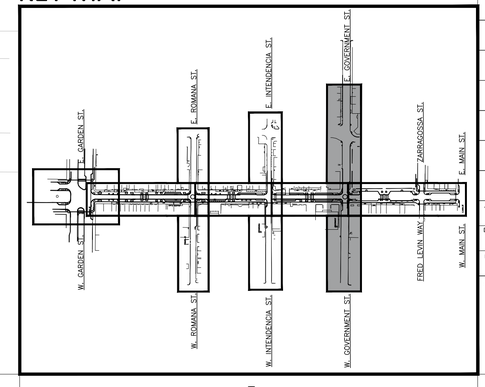
SYMBOL	CODE	BOTANICAL / COMMON NAME
TREES		
	IC	ILEX CASSINE DAHOON HOLLY - TREE FORM
	QV	QUERCUS VIRGINIANA SOUTHERN LIVE OAK
	SS	SABAL PALMETTO CABBAGE PALMETTO
	UB2	ULMUS PARVIFOLIA 'BOSQUE' BOSQUE® LACEBARK ELM
EXISTING TO REMAIN		
	ERM	ACER RUBRUM RED MAPLE
	EAR	ILEX X ATTENUATA EAST PALATKA HOLLY
	ELI	LAGERSTROEMIA INDICA CRAPE MYRTLE
	EQV	QUERCUS VIRGINIANA SOUTHERN LIVE OAK
	EUB	ULMUS PARVIFOLIA 'BOSQUE' BOSQUE® LACEBARK ELM
SHRUBS		
	CN	CENCHRUS SETACEUS 'RUBRUM' PURPLE FOUNTAIN GRASS
	LE	LIRIOPE MUSCARI EMERALD GODDESS® LILYTURF
	MC	MUHLENBERGIA CAPILLARIS PINK MUHLY GRASS
GROUND COVERS		
	A7	ANNUALS
	RM	EPOXY BOUND RUBBER MULCH - BROWN
	TA	TRACHELOSPERMUM ASIATICUM ASIATIC JASMINE

NOTE: SEE PAGE L0.04 - LANDSCAPE KEY MAP SCHEDULE FOR SIZE/CONTAINER AND SPACING REQUIREMENTS.



NO LANDSCAPE IN THIS VIEWPORT

KEY MAP



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NORTH

GRAPHIC SCALE 1 IN = 20 FT
0 10' 20' 40'

BAYLEN ST. TO JEFFERSON ST.

THE NEW PALAFOX
S. PALAFOX STREET, PENSACOLA FL 32502

PHASE G - LANDSCAPE PLAN

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012
DRAWN BY: EH
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DATE: 08/29/2025
SHEET NO.: L7.21

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IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	GPM	DETAIL
	RAIN BIRD 1800-1400 FLOOD 1402 FIXED FLOW RATE 0.25 GPM - 2.0 GPM, FULL CIRCLE BUBBLER, 1/2" FIPT.	50	0.5	3/L9.06

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	DETAIL
	RAIN BIRD XCZ-150-LCS 1-1/2" HIGH FLOW CONTROL ZONE KIT, FOR LARGE COMMERCIAL DRIP ZONES. 1-1/2" PEB GLOBE VALVE WITH SINGLE 1-1/2" PRESSURE REGULATING 40PSI QUICK-CHECK BASKET FILTER. FLOW RANGE: 15-62 GPM.		2/L9.07
90 180 360	RAIN BIRD XERI-SPRAY - SINGLE HEAD ADJUSTABLE FLOW/RADIUS, 10-32 SELF-TAPPING THREADED INLET. IDEAL FOR GROUND COVER, MASS PLANTINGS, ANNUAL FLOWER BEDS AND CONTAINERS.	20	1/L9.06
90 180 360	RAIN BIRD XERI-SPRAY - VERADECK PLANTER ADJUSTABLE FLOW/RADIUS, 10-32 SELF-TAPPING THREADED INLET. IDEAL FOR GROUND COVER, MASS PLANTINGS, ANNUAL FLOWER BEDS AND CONTAINERS.	20	
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFDE-06-18 XFDE ON-SURFACE PRESSURE COMPENSATING LANDSCAPE DRIPLINE. 0.6 GPH EMITTERS AT 18IN. O.C. DRIPLINE LATERALS SPACED AT RR APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. UV & KINK RESISTANT. USE XF INSERT FITTINGS.	30	1/L9.07

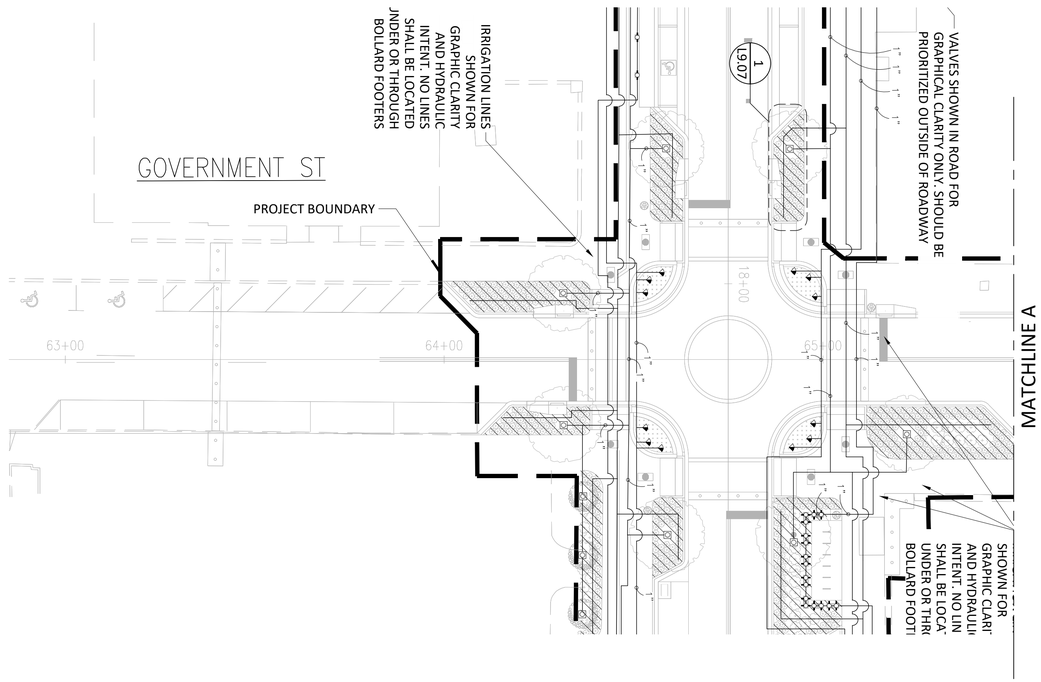
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
	RAIN BIRD PEB 1-1/2" 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.	4/L9.06
	MAINLINE ISOLATION VALVE 2" BRONZE GATE VALVE - CLASS 125 - CROSS HANDLE NON-RISING STEM-200 PSI. THREADED END CONNECTIONS WITH ADAPTERS TO HDPE MAINLINE.	7/L9.07
A	DRIP AIR RELIEF VALVE	5/L9.07
D	DRIP DRAIN VALVE	4/L9.07
C	RAIN BIRD ESPLXIVM-LXMM 60 STATION, 2-WIRE CONTROLLER W/ SMART VALVE TECHNOLOGY. (1) ESPLXIVM 60-STATION, INDOOR/OUTDOOR, PLASTIC WALL-MOUNT ENCLOSURE. INSTALLED IN LXMM POWDER COATED, METAL WALL-MOUNTED CABINET. SYSTEM REQUIREMENTS: RAIN BIRD LXIVM-XXX INTEGRATED VALVE MODULES & 2-WIRE DEVICES. GROUND SYSTEM W/ (X) LXIVMSD SURGE DEVICE IN RAIN BIRD ROUND VALVE BOXES. INSTALL PER MANUFACTURERS RECOMMENDATIONS.	8/L9.07
RFS	RAIN BIRD WR2-RFS WIRELESS RAIN/FREEZE SENSOR.	9/L9.07
M1	EXISTING ECUA METER EXISTING ECUA METER SHALL BE PRESERVED. A NEW DUCTILE IRON VALVE BOX AND LID SHALL BE INSTALLED. NEW DOUBLE CHECK VALVE BACKFLOW DEVICE SHALL BE INSTALLED BELOW GRADE IN A NEW DUCTILE IRON VALVE BOX PER LOCAL CODES.	
M2	EXISTING ECUA METER EXISTING ECUA METER SHALL BE PRESERVED. A NEW DUCTILE IRON VALVE BOX AND LID SHALL BE INSTALLED. NEW DOUBLE CHECK VALVE BACKFLOW DEVICE SHALL BE INSTALLED BELOW GRADE IN A NEW DUCTILE IRON VALVE BOX PER LOCAL CODES.	

IRRIGATION LATERAL LINE: HDPE PE4710 DR 11 1"

IRRIGATION LATERAL LINE: HDPE PE4710 DR 11 2"

IRRIGATION MAINLINE: HDPE PE4710 DR 11 2"

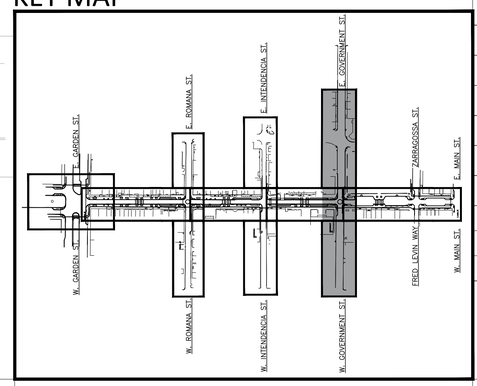
Valve Callout
- Valve Number
- Valve Flow
- Valve Size





NO IRRIGATION IN THIS VIEWPORT

KEY MAP



Jerry Pate Design
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NORTH

0 10' 20' 40' GRAPHIC SCALE 1 IN = 20 FT

BAYLEN ST. TO JEFFERSON ST.

THE NEW PALAFOX
S. PALAFOX STREET, PENSACOLA FL 32502

PHASE G - IRRIGATION PLAN

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012

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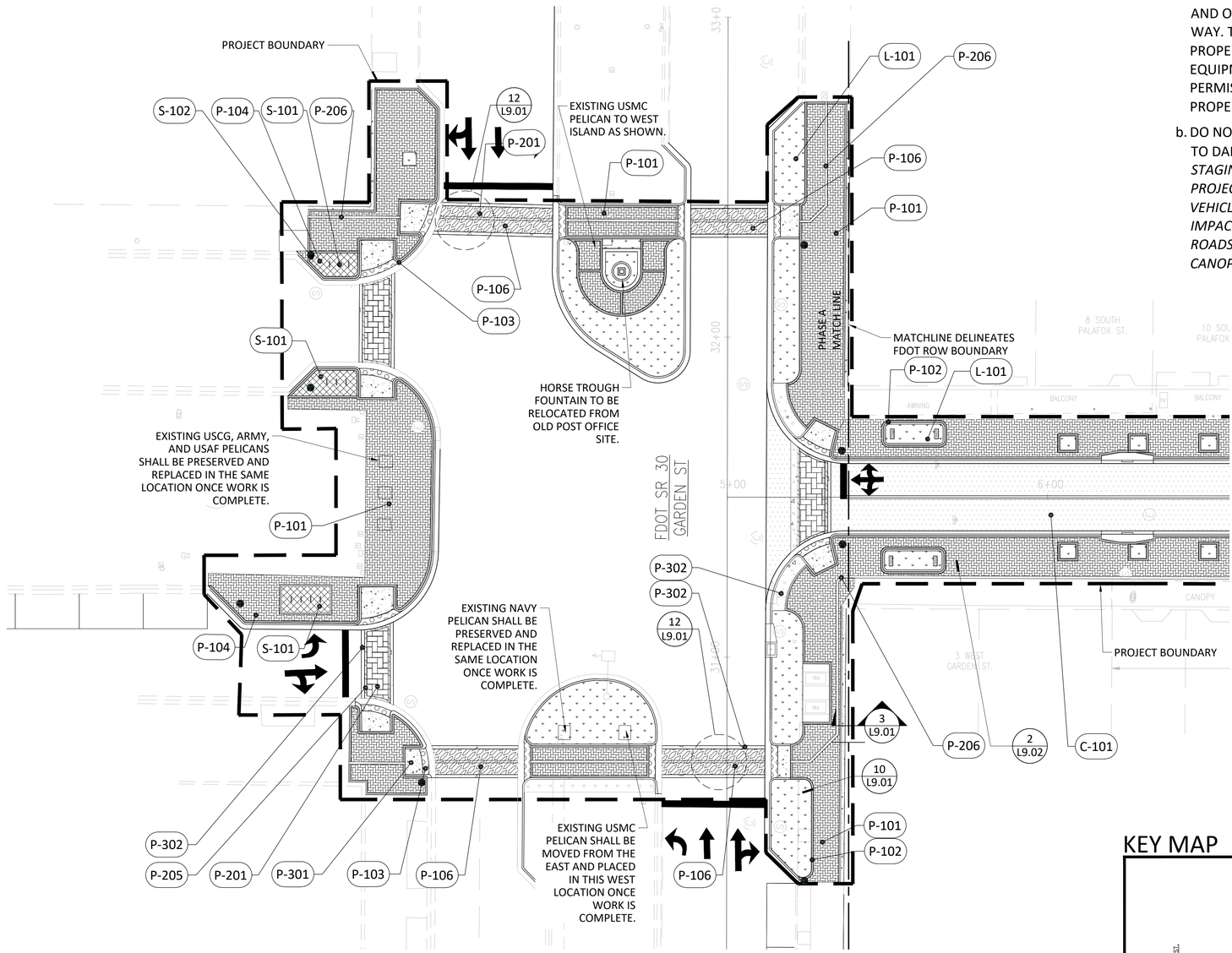
DATE: 08/29/2025

SHEET NO.: L7.31

100% CONSTRUCTION DOCUMENTS - NOT FOR CONSTRUCTION

REFERENCE NOTES SCHEDULE PHASE H - FDOT ROW

SYMBOL	CODE	DESCRIPTION	QTY	DETAIL
Civil Sitework				
	C-101	ASPHALT - SEE CIVIL	354 SF	
Landscape				
	L-101	PROPOSED LANDSCAPE AREA - SEE PLANTING PLAN	2,876 SF	1/L9.04
Paving				
	P-101	PEDESTRIAN FIELD PAVER - GLEN GARY-IRON CITY-FULL RANGE 4X8X2 ¼ (OAE)-HERRINGBONE	6,067 SF	2/L9.02
	P-102	PEDESTRIAN PAVER BORDER - GLEN GARY-IRON CITY-FULL RANGE 4 X8X2 ¼ (OAE)- SOLDIER CORSE	802 SF	3/L9.02
	P-103	HARDSCAPES USA -BREMEN ADA X8X2 3/8- 'MAIZE' SOLID COLOR BASKET WEAVE PATTERN (OAE)	254 SF	5/L9.02
	P-104	ARTISTIC PAVERS-GRANITELOCK 12X12X1 5/8-ARCTIC WHITE & STERLING GRAY (OAE)-ALTERNATE CHECKERBOARD	348 SF	
	P-106	STREETBOND DECORATIVE COATING -SEE DETAIL FOR FDOT CROSSWALK	941 SF	12/L9.01
Vehicular Paver				
	P-201	VEHICULAR FIELD PAVER - GLEN GARY-IRON CITY-FULL RANGE 4 X 8 X 2 3/4 (OAE)-HERRINGBONE	532 SF	7/L9.01
	P-205	VEHICULAR PAVER - GLEN GARY-IRON CITY- FULL RANGE 4 X 8 X 2 3/4 (OAE)- SOLDIER CORSE	131 SF	7/L9.01
	P-206	A1S TRAIL		1/L9.01
Concrete				
	P-301	PEDESTRIAN CONCRETE - PER CIVIL	557 SF	
	P-302	VEHICULAR CONCRETE - PER CIVIL	547 SF	
Site Furnishings				
	S-101	BIKE RACK: LS FORMS - RING - STAINLESS STEEL - EMBEDDED (OAE)		3/L9.03
	S-102	LITTER RECEPTACLE: LS FORMS - PLAINWELL - BLACK GLOSS - SIDE OPENING (OAE)		5/L9.03



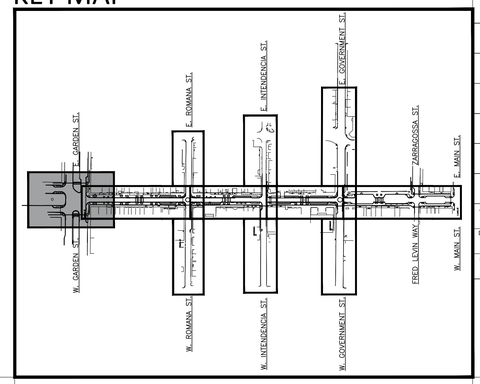
NOTE: WHERE EXISTING PAVER AND PROPOSED PAVERS MEET, CONTRACTOR SHALL MIX PAVERS ACCORDING TO DETAILS TO BLEND AND BREAK UP THE HARDLINE.

FDOT NOTES:

a. THE CONTRACTOR SHOULD RESTRICT EQUIPMENT AND OPERATIONS TO THE PROJECT RIGHT OF WAY. THE CONTRACTOR SHALL NOT USE PRIVATE PROPERTY FOR PARKING OR STORAGE OF EQUIPMENT OR PROJECT ELEMENTS UNLESS PERMISSION IS OBTAINED BY THE PRIVATE PROPERTY OWNER.

b. DO NOT ALLOW HAULING UNITS OR EQUIPMENT TO DAMAGE EXISTING LANDSCAPE ELEMENTS. *STAGING AREAS WILL BE APPROVED BY THE PROJECT ADMINISTRATOR SO THAT EQUIPMENT, VEHICLES, MATERIALS AND DEBRIS WILL NOT IMPACT PLANTED LANDSCAPE AREAS OF THE ROADSIDE OR MEDIANS OR THE AREA UNDER THE CANOPY OF EXISTING TREES ON THE PROJECT SITE.*

KEY MAP



Jerry Pate Design
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NORTH

GRAPHIC SCALE 1 IN = 20 FT (0, 10', 20', 40')

PALAFOX PLACE AND GARDEN ST.

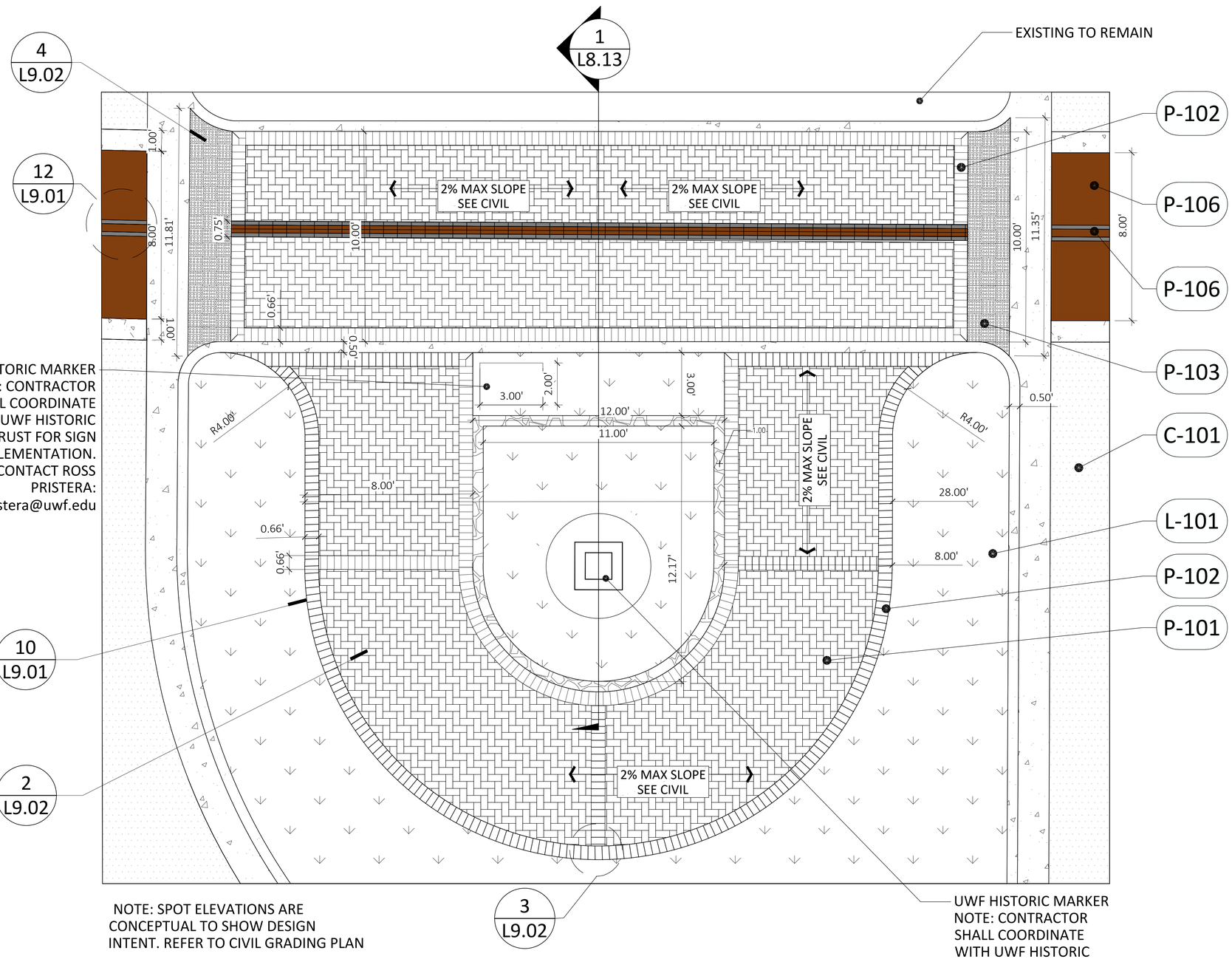
THE NEW PALAFOX
S. PALAFOX STREET, PENSACOLA FL 32502
PHASE H - HARDSCAPE PLAN

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012
DRAWN BY: EH | CHECKED BY: BA
DATE: 08/29/2025
SHEET NO.: L8.11

100% CONSTRUCTION DOCUMENTS - NOT FOR CONSTRUCTION



NOTE: ALL HARDSCAPE, CONCRETE OR PAVER GRADES IN MEDIAN CROSSING SHALL NOT EXCEED 2%. SEE CIVIL FOR DETAILED PROFILE.

1 GARDEN ST EAST MEDIAN INSET

3/8"=1'- 0"

P-PFX-21

REFERENCE NOTES SCHEDULE PHASE H - FDOT ROW

CODE	DESCRIPTION	DETAIL
Civil Sitework		
C-101	ASPHALT - SEE CIVIL	
Landscape		
L-101	PROPOSED LANDSCAPE AREA - SEE PLANTING PLAN	1/L9.04
Paving		
P-101	PEDESTRIAN FIELD PAVER - GLEN GARY-IRON CITY-FULL RANGE 4X8X2 ¼ (OAE)-HERRINGBONE	2/L9.02
P-102	PEDESTRIAN PAVER BORDER - GLEN GARY-IRON CITY-FULL RANGE 4 X8X2 ¼ (OAE)- SOLDIER CORSE	3/L9.02
P-103	HARDSCAPES USA -BREMEN ADA X8X2 3/8- 'MAIZE' SOLID COLOR BASKET WEAVE PATTERN (OAE)	5/L9.02
P-104	ARTISTIC PAVERS-GRANITELOCK 12X12X1 5/8-ARCTIC WHITE & STERLING GRAY (OAE)-ALTERNATE CHECKERBOARD	
P-106	STREETBOND DECORATIVE COATING -SEE DETAIL FOR FDOT CROSSWALK	12/L9.01
Vehicular Paver		
P-201	VEHICULAR FIELD PAVER - GLEN GARY-IRON CITY-FULL RANGE 4 X 8 X 2 3/4 (OAE)-HERRINGBONE	7/L9.01
P-205	VEHICULAR PAVER - GLEN GARY- IRON CITY- FULL RANGE 4 X 8 X 2 3/4 (OAE)- SOLDIER CORSE	7/L9.01
P-206	A1S TRAIL	1/L9.01
Concrete		
P-301	PEDESTRIAN CONCRETE - PER CIVIL	
P-302	VEHICULAR CONCRETE - PER CIVIL	
Site Furnishings		
S-101	BIKE RACK: LS FORMS - RING - STAINLESS STEEL - EMBEDDED (OAE)	3/L9.03
S-102	LITTER RECEPTACLE: LS FORMS - PLAINWELL - BLACK GLOSS - SIDE OPENING (OAE)	5/L9.03

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THE NEW PALAFOX
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PHASE H - HARDSCAPE INSETS

SIGNATURE BLOCK

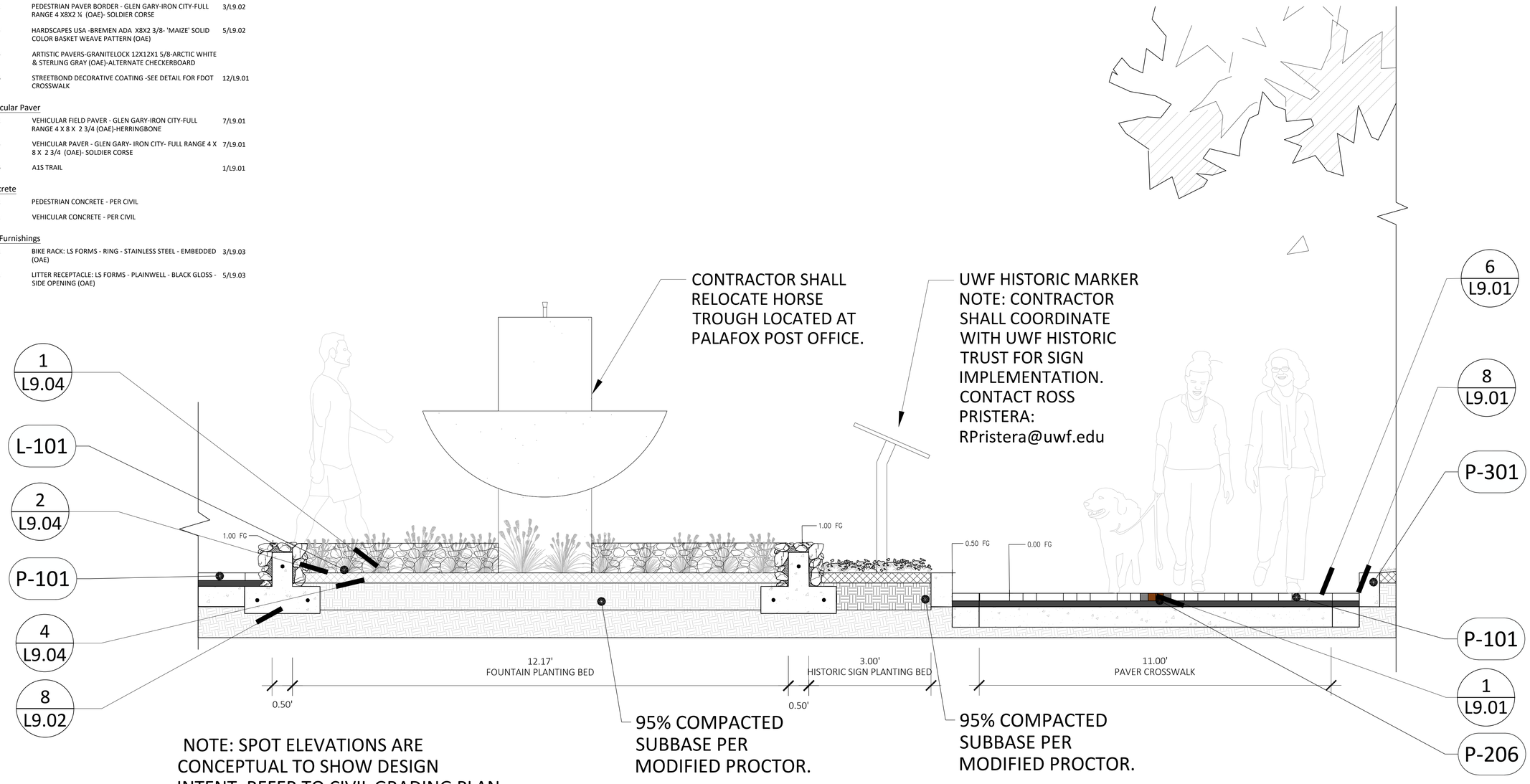
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JPD PROJECT NUMBER: 24012
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CHECKED BY: BA
DATE: 08/29/2025
SHEET NO.: L8.12

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REFERENCE NOTES SCHEDULE PHASE H - FDOT ROW

CODE	DESCRIPTION	DETAIL
Civil Sitework		
C-101	ASPHALT - SEE CIVIL	
Landscape		
L-101	PROPOSED LANDSCAPE AREA - SEE PLANTING PLAN	1/L9.04
Paving		
P-101	PEDESTRIAN FIELD PAVER - GLEN GARY-IRON CITY-FULL RANGE 4X8X2 ¼ (OAE)-HERRINGBONE	2/L9.02
P-102	PEDESTRIAN PAVER BORDER - GLEN GARY-IRON CITY-FULL RANGE 4 X8X2 ¼ (OAE)- SOLDIER CORSE	3/L9.02
P-103	HARDSCAPES USA -BREMEN ADA X8X2 3/8- 'MAIZE' SOLID COLOR BASKET WEAVE PATTERN (OAE)	5/L9.02
P-104	ARTISTIC PAVERS-GRANITELOCK 12X12X1 5/8-ARCTIC WHITE & STERLING GRAY (OAE)-ALTERNATE CHECKERBOARD	
P-106	STREETBOND DECORATIVE COATING -SEE DETAIL FOR FDOT CROSSWALK	12/L9.01
Vehicular Paver		
P-201	VEHICULAR FIELD PAVER - GLEN GARY-IRON CITY-FULL RANGE 4 X 8 X 2 3/4 (OAE)-HERRINGBONE	7/L9.01
P-205	VEHICULAR PAVER - GLEN GARY- IRON CITY- FULL RANGE 4 X 8 X 2 3/4 (OAE)- SOLDIER CORSE	7/L9.01
P-206	A1S TRAIL	1/L9.01
Concrete		
P-301	PEDESTRIAN CONCRETE - PER CIVIL	
P-302	VEHICULAR CONCRETE - PER CIVIL	
Site Furnishings		
S-101	BIKE RACK: LS FORMS - RING - STAINLESS STEEL - EMBEDDED (OAE)	3/L9.03
S-102	LITTER RECEPTACLE: LS FORMS - PLAINWELL - BLACK GLOSS - SIDE OPENING (OAE)	5/L9.03



NOTE: SPOT ELEVATIONS ARE CONCEPTUAL TO SHOW DESIGN INTENT. REFER TO CIVIL GRADING PLAN

1 GARDEN STREET EAST MEDIAN SECTION
3/4" = 1'-0"

P-PFX-22

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THE NEW PALAFOX
S. PALAFOX STREET, PENSACOLA FL 32502

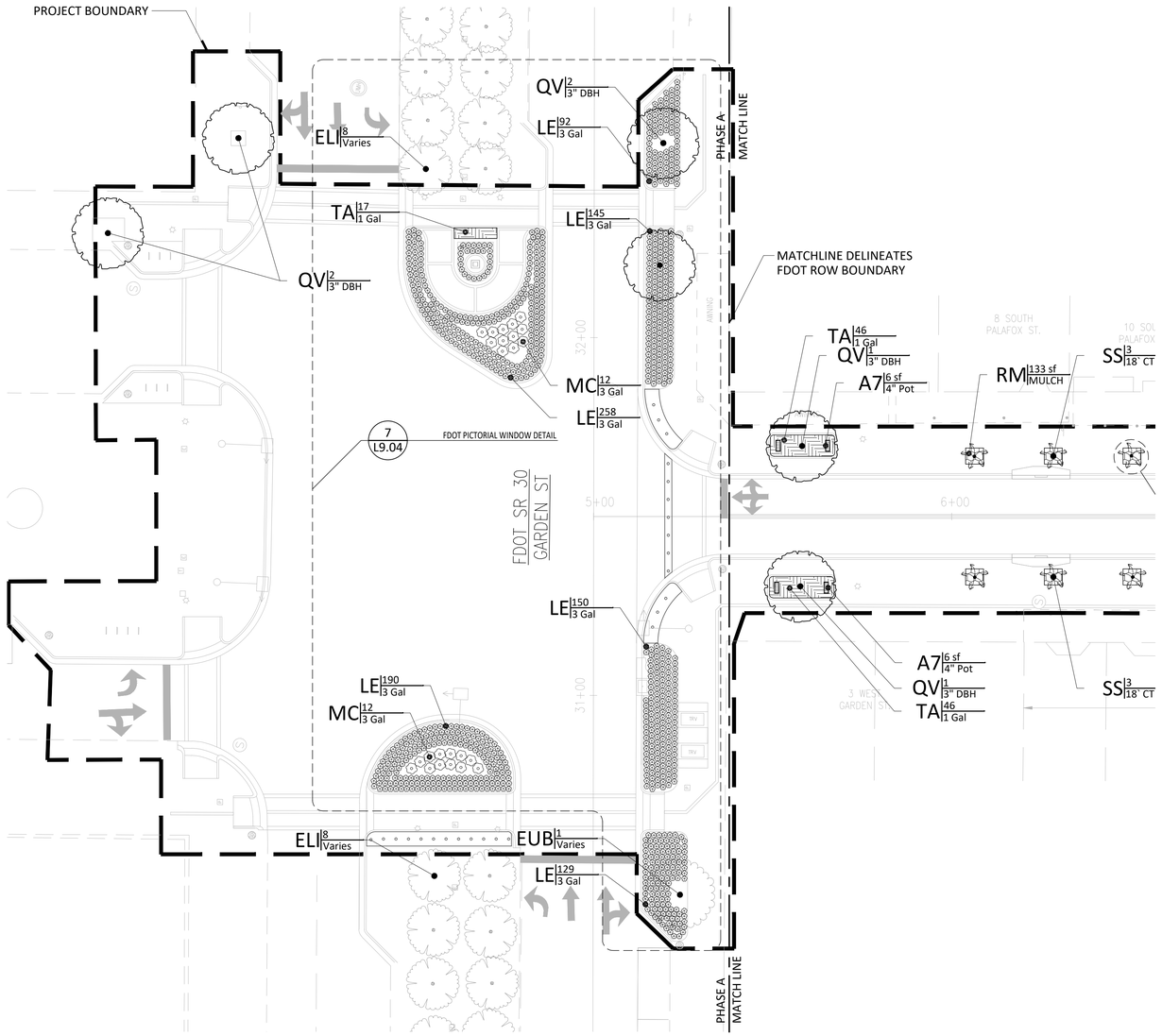
PHASE H - HARDSCAPE INSETS

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012
DRAWN BY: EH | CHECKED BY: BA
DATE: 08/29/2025
SHEET NO.: L8.13

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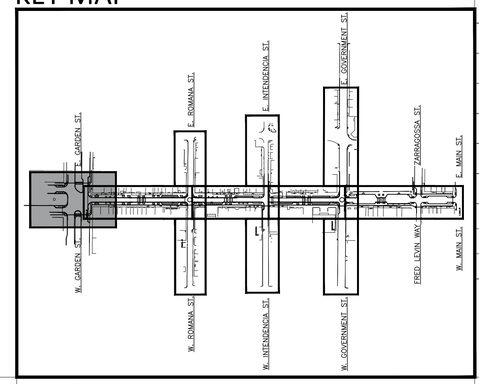


PLANT SCHEDULE PHASE H

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	SPACING
TREES					
	QV	4	QUERCUS VIRGINIANA SOUTHERN LIVE OAK	3" DBH	
EXISTING TO REMAIN					
	ELI	16	LAGERSTROEMIA INDICA CRAPE MYRTLE	VARIES	
	EUB	1	ULMUS PARVIFOLIA 'BOSQUE' BOSQUE® LACEBARK ELM	VARIES	
SHRUBS					
	LE	964	LIRIOPE MUSCARI EMERALD GODDESS® LILYTURF	3 GAL	18" o.c.
	MC	24	MUHLENBERGIA CAPILLARIS PINK MUHLY GRASS	3 GAL	36" o.c.
GROUND COVERS					
	TA	17	TRACHELOSPERMUM ASIATICUM ASIATIC JASMINE	1 GAL	18" o.c.

NOTE: ALL LANDSCAPE WITHIN THE FDOT RIGHT OF WAY SHALL REFER TO FDOT PICTORIAL WINDOW DETAIL 7, L9.04 - LANDSCAPE DETAILS.

KEY MAP



Jerry Pate Design
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NORTH

GRAPHIC SCALE 0 10' 20' 40' 1 IN = 20 FT

PALAFOX PLACE AND GARDEN ST.

THE NEW PALAFOX
S. PALAFOX STREET, PENSACOLA FL 32502

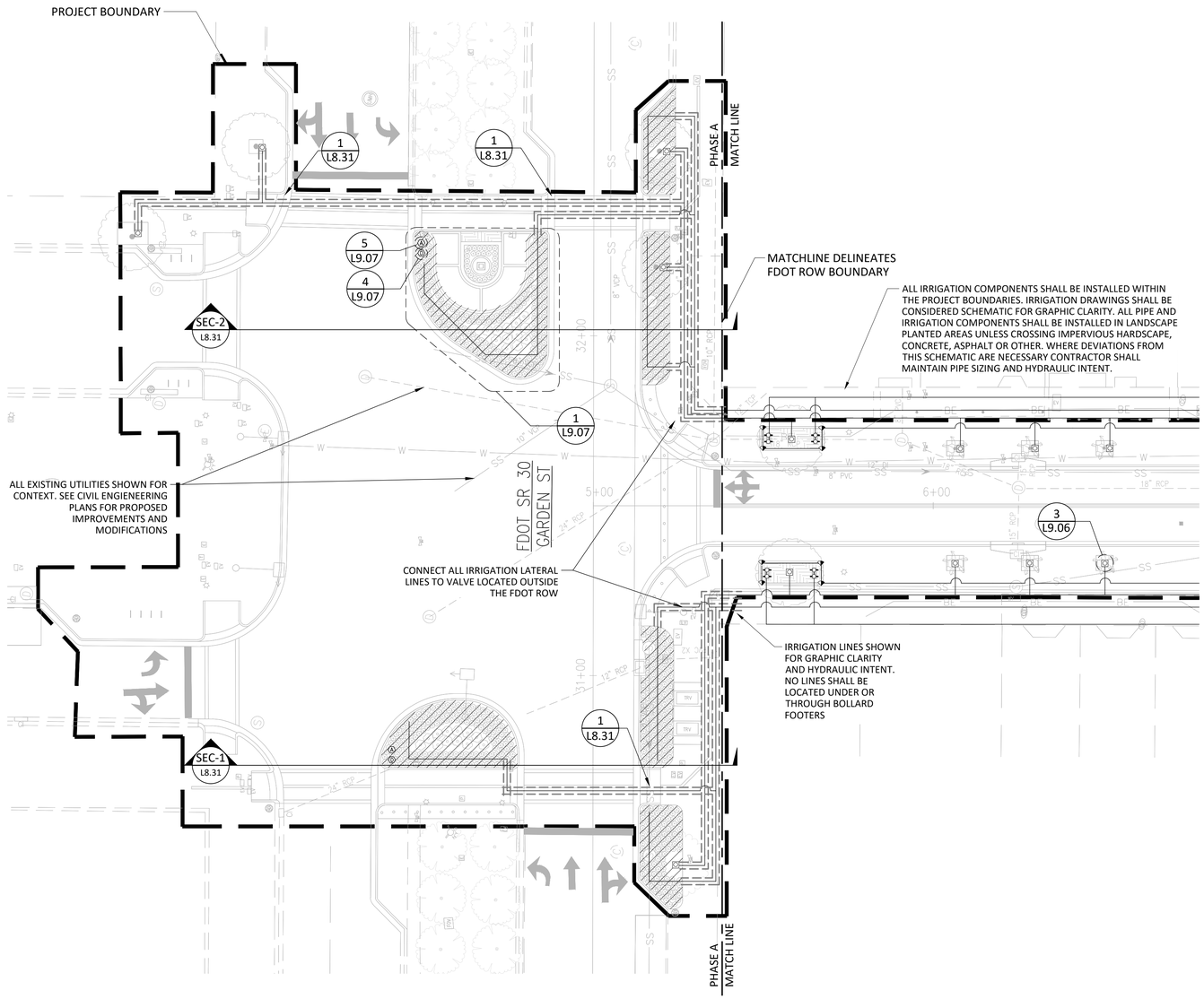
PHASE H - LANDSCAPE PLAN

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012
DRAWN BY: EH
CHECKED BY: BA
DATE: 08/29/2025
SHEET NO.: L8.21

100% CONSTRUCTION DOCUMENTS - NOT FOR CONSTRUCTION



IRRIGATION SCHEDULE PHASE H - FDOT ROW

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	GPM	DETAIL
⊠	RAIN BIRD 1800-1400 FLOOD 1402 FIXED FLOW RATE 0.25 GPM - 2.0 GPM, FULL CIRCLE BUBBLER, 1/2" FIPT.	5	50	0.5	3/L9.06

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	DETAIL
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFDE-06-24 XFDE ON-SURFACE PRESSURE COMPENSATING LANDSCAPE DRIPLINE. 0.6 GPH EMITTERS AT 18IN. O.C. DRIPLINE LATERALS SPACED AT RR APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. UV & KINK RESISTANT. USE XF INSERT FITTINGS.	1,406 LF	30	1/L9.07

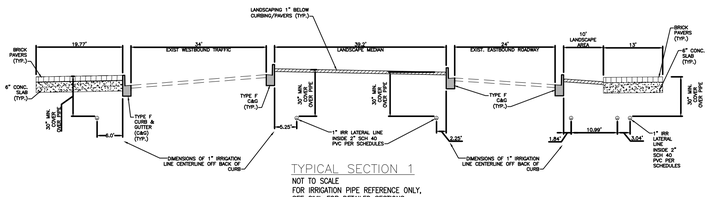
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	DETAIL
Ⓐ	DRIP AIR RELIEF VALVE	2	5/L9.07
Ⓓ	DRIP DRAIN VALVE	2	4/L9.07
	IRRIGATION LATERAL LINE: HDPE PE4710 DR 11 1"	1,000 LF	
	PIPE SLEEVE: PVC SCHEDULE 40	585.8 LF	

Valve Callout
Valve Number
Valve Flow
Valve Size

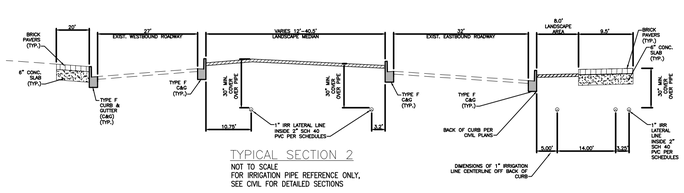
- WHERE IRRIGATION DIRECTIONAL BORE SLEEVES ARE INSTALLED UNDER RAMPS AND ROADWAYS A METAL MARKER SHALL BE INSTALLED WITH FLAT HEAD TAP-CON SCREWS AT BOTH CURBS OR EDGE OF PAVEMENT IDENTIFYING THE LOCATION OF THE INSTALLED SLEEVE.
- THE MARKER SHALL INDICATE THE SLEEVE SIZE AND DEPTH TO TOP OF SLEEVE.
- THE MARKER SHALL BE STAINLESS STEEL 3" LONG X 1" WIDE X $\frac{1}{16}$" THICK WITH THE SIZE AND DEPTH ENGRAVED OR STAMPED ONTO THE STAINLESS STEEL MARKERS.
- ALL IRRIGATION SLEEVES SHALL COMPLY WITH FDOT STANDARD PLANS (CURRENT YEAR) INDEX 591-001 - LANDSCAPE IRRIGATION SLEEVES

IRRIGATION SLEEVE
6" SIZE
48" MINIMUM DEPTH

1 IRRIGATION SLEEVE MARKER - FDOT
NTS JPD-IR-GOVI-PIPE-04

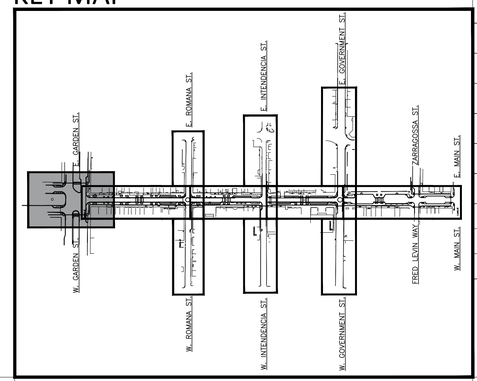


TYPICAL SECTION 1
NOT TO SCALE
FOR IRRIGATION PIPE REFERENCE ONLY, SEE CIVIL FOR DETAILED SECTIONS



TYPICAL SECTION 2
NOT TO SCALE
FOR IRRIGATION PIPE REFERENCE ONLY, SEE CIVIL FOR DETAILED SECTIONS

KEY MAP



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NORTH

GRAPHIC SCALE 1 IN = 20 FT
0 10' 20' 40'

PALAFOX PLACE AND GARDEN ST.

THE NEW PALAFOX
S. PALAFOX STREET, PENSACOLA FL 32502

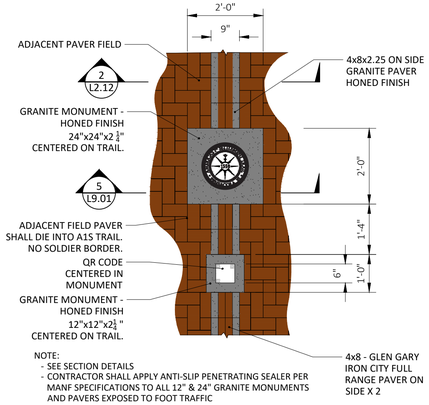
PHASE H - IRRIGATION PLAN

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012
DRAWN BY: EH CHECKED BY: BA
DATE: 08/29/2025
SHEET NO.: L8.31

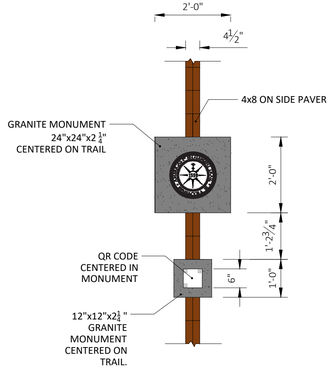
100% CONSTRUCTION DOCUMENTS - NOT FOR CONSTRUCTION



NOTE:
- SEE SECTION DETAILS
- CONTRACTOR SHALL APPLY ANTI-SLIP PENETRATING SEALER PER MANF SPECIFICATIONS TO ALL 12" & 24" GRANITE MONUMENTS AND PAVERS EXPOSED TO FOOT TRAFFIC

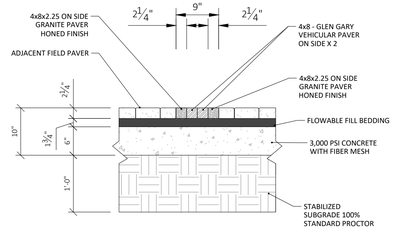
1 A1S TRAIL MONUMENTS ADJ. TO PAVER

NTS P-PFX-01



2 A1S TRAIL MONUMENTS ADJ. TO CONC.

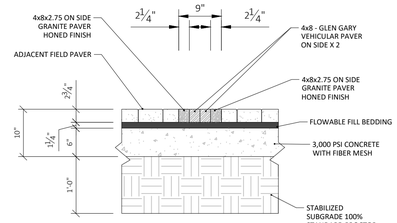
NTS P-PFX-02



NOTE: ALL CONCRETE SHALL BE 3,000 PSI CONCRETE AT 28 DAYS WITH FIBER MESH REINFORCEMENTS

3 A1S TRAIL SECTION - IN PEDESTRIAN PAVER

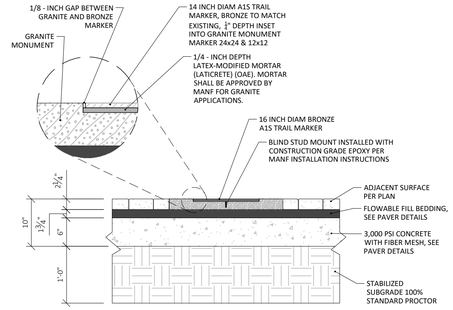
NTS P-PFX-167



NOTE: ALL CONCRETE SHALL BE 3,000 PSI CONCRETE AT 28 DAYS WITH FIBER MESH REINFORCEMENTS

4 A1S TRAIL SECTION - IN VEHICULAR PAVER

NTS P-PFX-166



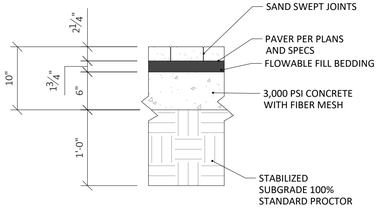
NOTE: ALL CONCRETE SHALL BE 3,000 PSI CONCRETE AT 28 DAYS WITH FIBER MESH REINFORCEMENTS

NOTE:
- SEE SECTION DETAILS
- CONTRACTOR SHALL APPLY ANTI-SLIP PENETRATING SEALER PER MANF SPECIFICATIONS TO ALL 12" & 24" GRANITE MONUMENTS AND PAVERS EXPOSED TO FOOT TRAFFIC

5 A1S TRAIL MONUMENT - SECTION

NTS P-PFX-20

CITY OF PENSACOLA SPECIFIC PAVER PROFILE PER CITY ENGINEERING DEPARTMENT

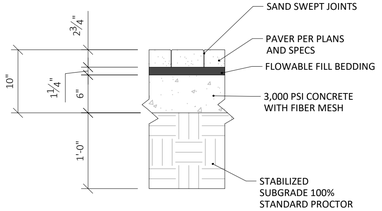


NOTE: ALL CONCRETE SHALL BE 3,000 PSI CONCRETE AT 28 DAYS WITH FIBER MESH REINFORCEMENTS

6 C.O.P TYP. PEDESTRIAN PAVER DETAIL

NTS P-PFX-03

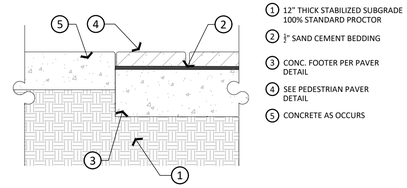
CITY OF PENSACOLA SPECIFIC PAVER PROFILE PER CITY ENGINEERING DEPARTMENT



NOTE: ALL CONCRETE SHALL BE 3,000 PSI CONCRETE AT 28 DAYS WITH FIBER MESH REINFORCEMENTS

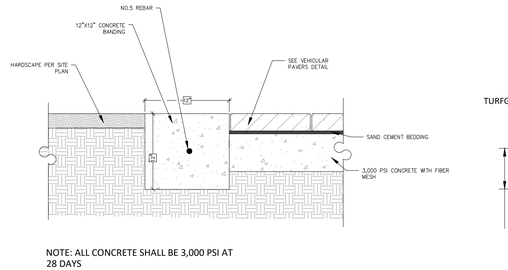
7 C.O.P TYP. VEHICULAR PAVER DETAIL

NTS P-PFX-07



8 PEDESTRIAN PAVER TO CONC. DETAIL

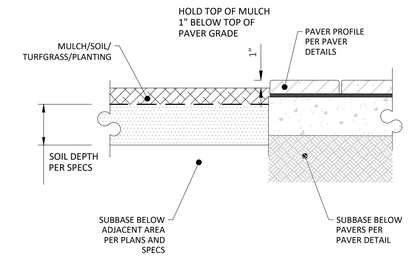
NTS P-PFX-08



NOTE: ALL CONCRETE SHALL BE 3,000 PSI AT 28 DAYS

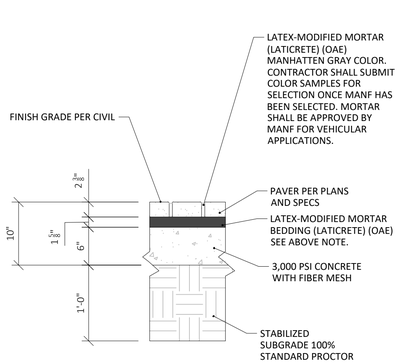
9 VEHICULAR PAVER TO CONC. BAND DETAIL

NTS P-PFX-09



10 PED. PAVER TO LANDSCAPE DETAIL

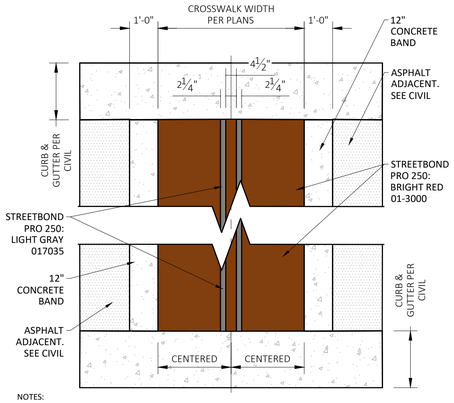
NTS P-PFX-10



NOTE: ALL CONCRETE SHALL BE 3,000 PSI CONCRETE AT 28 DAYS WITH FIBER MESH REINFORCEMENTS

11 CHARLESTONE VEHICLUAR PAV. DETAIL

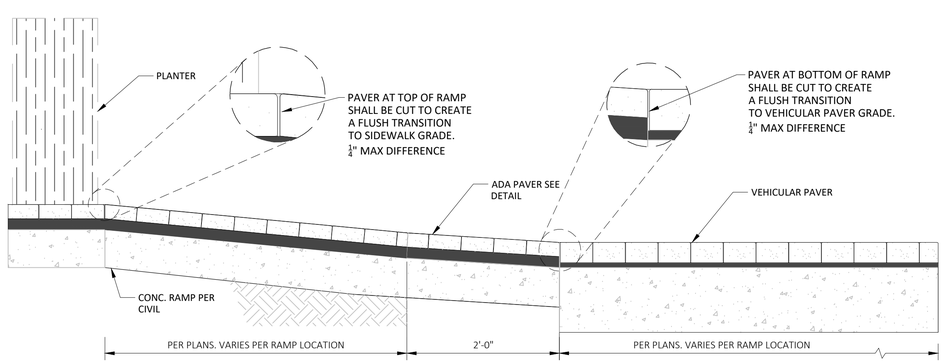
NTS JPD-CO-PAV-49



NOTES:
- ALL PRODUCTS SHALL REFERENCE MANF TECH DATA SHEETS AND BE APPLIED PER MANF SPECIFICATIONS.
- PATTERN IN CROSSWALK IS INTENDED TO MIMIC DIMENSIONS AND COLOR OF A1S HISTORIC TRAIL. CENTER IN CROSSWALK AND ALIGN WITH ADJACENT PAVER VERSION OF THE A1S TRAIL. SEE PLANS AND SPECS.

12 STREETBOND DESIGN IN FDOT CROSSWALK

NTS P-PFX-26



13 ADA PAVER RAMP AT PARALLEL PARKING DETAIL

NTS P-PFX-27

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THE NEW PALAFOX
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HARDSCAPE DETAILS

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

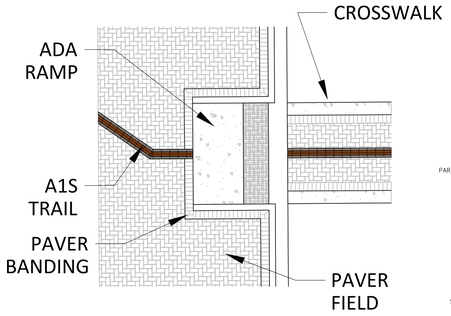
JPD PROJECT NUMBER: 24012

DRAWN BY: EH | CHECKED BY: BA

DATE: 08/29/2025

SHEET NO.: L9.01

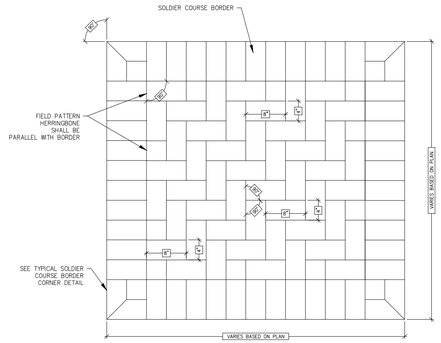
100% CONSTRUCTION DOCUMENTS - NOT FOR CONSTRUCTION



NOTE: A1S TRAIL SHALL NOT BE INSTALLED ON CONCRETE ADA RAMP

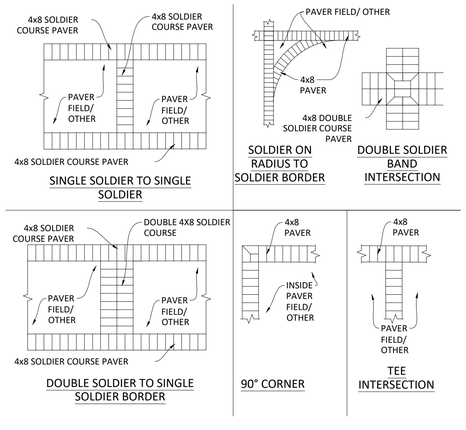
1 A1S TRAIL INTERSECTION DETAIL

NTS P-PFX-11



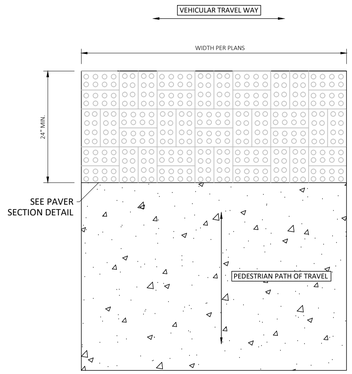
2 HERRINGBONE PAVER PATTERN

NTS JPD-CO-PAV-31



3 PAVER INTERSECTION DETAILS

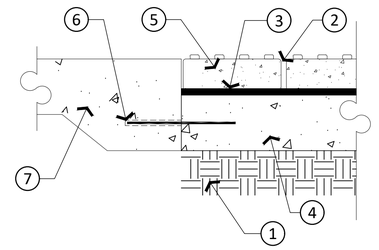
NTS JPD-CO-PAV-29



4 BASKET WEAVE DETECTABLE PAVER LAYOUT

NTS JPD-CO-PAV-48

1. SUBBASE PER PAVER DETAILS
2. SAND SWEPT PAVER JOINT
3. MORTAR BED PER PAVER DETAILS
4. CONCRETE SUBBASE PER PAVER DETAILS
5. PAVER, SEE SPEC
6. ½" DIA. X 24" SMOOTH STEEL DOWEL WITH SLEEVE AT ONE END, 48" O.C. MAX., TWO MINIMUM PER JOINT.
7. CONCRETE PER DETAILS



5 ADA PAVER - SECTION DETAIL

NTS JPD-CO-PAV-39

6 EXISTING PAV. TO NEW PAV. GRADIENT

NTS JPD-CO-PAV-50

7 PALAFOX INTERSECTION PLANTER ELEVATION

NTS JPD-CO-WAL-65

NOTES:
1. CONCRETE SHALL BE 3,000 PSI @ 28 DAYS - GRAY
2. REINFORCING ASTM A615- GR60; ACCORDING TO ACI-315 DETAILING
3. SEE LANDSCAPE PLAN FOR LOCATION AND CONFIGURATION.
4. CONTRACTOR TO PROVIDE MOCK-UP FOR APPROVAL OF LANDSCAPE ARCHITECT & OWNER PRIOR TO INSTALLATION.
5. CONTRACTOR TO PROVIDE SUBMITTAL DOCUMENTATION PER SPECIFICATIONS.

8 PALAFOX INTERSECTION PLANTER SECTION CUT

NTS JPD-CO-WAL-66

NOTES:
1. CONCRETE SHALL BE 3,000 PSI @ 28 DAYS - GRAY
2. REINFORCING ASTM A615- GR60; ACCORDING TO ACI-315 DETAILING
3. SEE LANDSCAPE PLAN FOR LOCATION AND CONFIGURATION.
4. CONTRACTOR TO PROVIDE MOCK-UP FOR APPROVAL OF LANDSCAPE ARCHITECT & OWNER PRIOR TO INSTALLATION.
5. CONTRACTOR TO PROVIDE SUBMITTAL DOCUMENTATION PER SPECIFICATIONS.

9 INTERSECTION PLANTER - BACK WALL

NTS JPD-CO-WAL-67

10 PALAFOX ADA RAMP DETAIL

NTS JPD-CO-WAL-68

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HARDSCAPE DETAILS

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

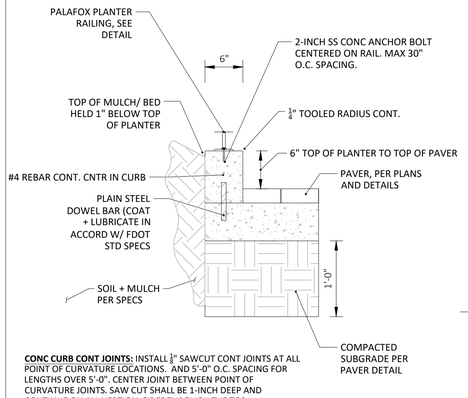
JPD PROJECT NUMBER: 24012

DRAWN BY: EH | CHECKED BY: BA

DATE: 08/29/2025

SHEET NO.: L9.02

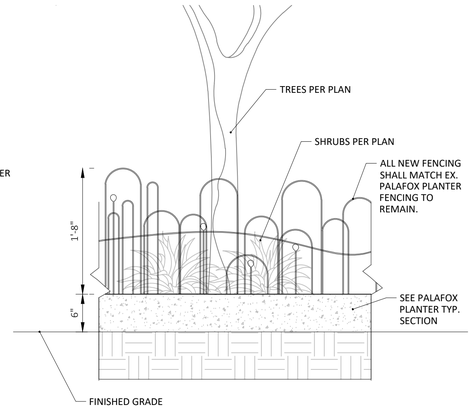
100% CONSTRUCTION DOCUMENTS - NOT FOR CONSTRUCTION



CONC CURB CONT JOINTS: INSTALL ¾" SAWCUT CONT JOINTS AT ALL POINT OF CURVATURE LOCATIONS. AND 5'-0" O.C. SPACING FOR LENGTHS OVER 5'-0". CENTER JOINT BETWEEN POINT OF CURVATURE JOINTS. SAW CUT SHALL BE 1-INCH DEEP AND CONTINUE ON ALL VERTICAL SIDES THROUGH THE TOP.

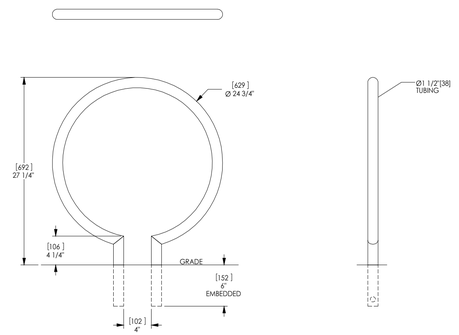
1 PALAFOX PLANTER TYP. SECTION

NTS P-PFX-04



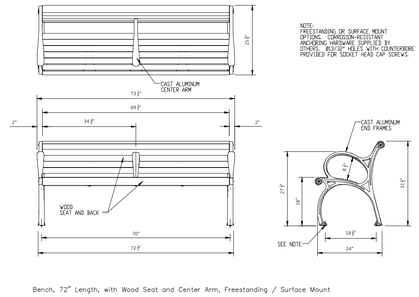
2 PALAFOX PLANTER FENCE DETAIL

NTS P-PFX-06



3 LS FORMS-'RING' BIKE RACK, EMBEDDED

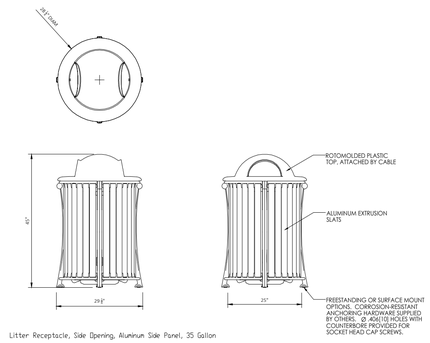
NTS JPD-CO-BK-01



Bench, 72" Length, with Wood Seat and Center Arm, Freestanding / Surface Mount

4 LS FORMS-'PLAINWELL'-72" W/ CNTR ARM

NTS JPD-CO-FUR-36



Litter Receptacle, Side Opening, Aluminum Side Panel, 35 Gallon

5 LS FORMS-'PLAINWELL' LITTER-SIDE OPEN

NTS JPD-CO-LIT-03

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THE NEW PALAFOX
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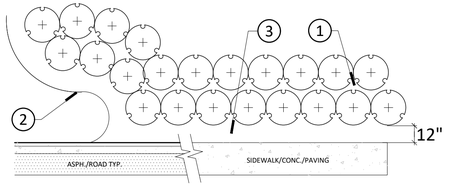
FURNISHING DETAILS

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012
DRAWN BY: EH
CHECKED BY: BA
DATE: 08/29/2025
SHEET NO.: L9.03

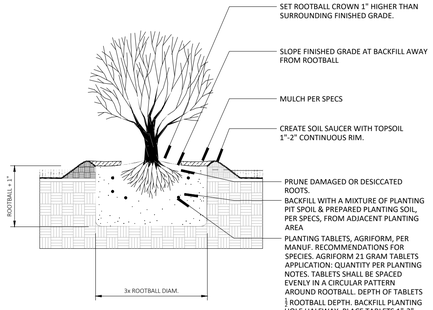
100% CONSTRUCTION DOCUMENTS - NOT FOR CONSTRUCTION



1. SHRUBS AND GROUNDCOVERS ADJACENT TO STRAIGHT EDGES SHALL BE TRIANGULAR - SPACED IN ROWS PARALLEL TO THE STRAIGHT EDGE.
2. SHRUBS AND GROUNDCOVERS ADJACENT TO CURVED EDGES SHALL BE PLANTED IN ROWS PARALLEL TO THE CURVED EDGES. CURVED EDGES TO BE VERY SMOOTH RADII.
3. FIRST ROW OF SHRUBS ADJACENT TO CURB, BEDLINES & CONCRETE SHALL BE A OFFSET A DISTANCE OF 1'.

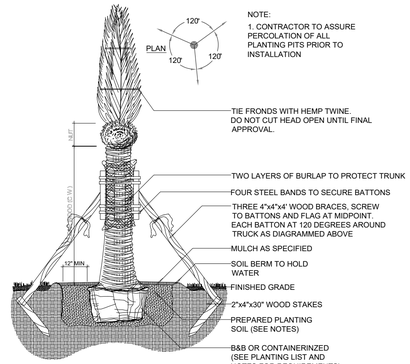
1 TYPICAL LANDSCAPE SPACING DETAIL

NTS JPD-CO-PLA-04



2 SHRUB PLANTING - TYPICAL

NTS JPD-CO-PLA-12



3 PALM PLANTING DETAIL

NTS JPD-CO-PLA-30

1. SATISFACTORY SUBGRADE SHALL BE ON SITE SANDY SOILS WITH A CLASS OF SM OR SP AS IDENTIFIED IN THE SITE SOIL BORING ANALYSIS. ROOTZONE SHALL BE SAND/ORGANIC MIX AS SPECIFIED BELOW.
2. UNSATISFACTORY SOILS: NO SOIL OF THE SOIL CLASSIFICATION GROUPS TOPSOIL, GC, SC, CL, ML, OL, CH, MH, OH, AND PT ACCORDING TO ASTM D 2487 OR A COMBINATION OF THESE GROUPS WILL BE PERMITTED WITHIN THE PLANTED AREA TO A DEPTH OF TWO FEET.
3. REMOVE SURPLUS SATISFACTORY SOIL AND WASTE MATERIALS, INCLUDING UNSATISFACTORY SOIL, TRASH, AND DEBRIS, AND LEGALLY DISPOSE OF THEM IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
4. SUBMITTALS:
   - 4.1. ORGANIC MATERIAL MIXTURE SAMPLE AND TESTS.
   - 4.2. SOIL AMENDMENTS AND FERTILIZER SAMPLES AND TESTS.
   - 4.3. SAMPLES: FOR EACH BULK-SUPPLIED MATERIAL IN SEALED ONE-QUART CONTAINERS LABELED WITH CONTENT, SOURCE, AND DATE OBTAINED; PROVIDING AN ACCURATE REPRESENTATION OF COMPOSITION, COLOR, AND TEXTURE.
5. ROOTZONE/ORGANIC MIXTURE:
   - 5.1.

FINE GRAVEL	2.0-3.4 MM	LESS THAN 10% OF THE TOTAL PARTICLES IN THIS RANGE, INCLUDING A MAXIMUM OF 3% FINE GRAVEL (PREFERABLY NONE)
VERY COARSE SAND	1.0-2.0 MM	
COURSE SAND	0.5-1.0 MM	MINIMUM OF 60 % OF THE PARTICLES MUST FALL IN THIS RANGE.
MEDIUM SAND	0.25-0.50 MM	
FINE SAND	0.15-0.25 MM	LESS THAN 20% OF THE PARTICLES MAY FALL IN THIS RANGE.
VERY FINE SAND	0.05-0.15 MM	LESS THAN 5% — TOTAL PARTICLES IN THIS RANGE SHALL NOT EXCEED 10%
SILT	0.002-0.05 MM	LESS THAN 5%
CLAY	LESS THAN 0.002 MM	LESS THAN 3%

   - 5.2. IN ADDITION, THERE SHOULD BE 100% PASSING THE NO. 5 SCREEN (4MM), AND NO MORE THAN 10% COMBINED VERY FINE SAND, SILT, AND CLAY, AND THE SAND SHOULD HAVE A UNIFORMITY OF COEFFICIENT OF 2.5 TO 3.5. SUBMIT SAMPLES TO TESTING AGENT FOR ANALYSIS TO ASSURE CONFORMANCE THIS SPECIFICATION.
   - 5.3. ORGANIC COMPONENT: THE ORGANIC COMPONENT SHALL MAKE UP APPROXIMATELY 15% OF THE ROOTZONE MIXTURE (VOLUME BASIS) AND MAY BE THE ECUA COMMAND COMPOST SIZED AT ¼ INCH-MINUS SCREENINGS. COMPOST SHALL HAVE THE FOLLOWING PROPERTIES:
     - 5.3.1. ORGANIC MATER PERCENT GREATER THAN 20% ON A DRY WEIGHT BASIS
     - 5.3.2. C/N RATION BETWEEN 10 AND 20
     - 5.3.3. MOISTURE % BETWEEN 35-55%
     - 5.3.4. CONDUCTIVITY BETWEEN 0.6 AND 3
     - 5.3.5. PH VALUE BETWEEN 6 AND 8
     - 5.3.6. NUTRIENT INDEX GREATER THAN 8
     - 5.3.7. AVERAGE NUTRIENT CONTENT BY DRY WEIGHT BETWEEN 2 AND 5
6. PERCOLATION RATE: MINIMUM 15 INCHES PER HOUR.
7. ALL TREE PITS SHALL BE EXCAVATED OF EXISTING SOIL. ALL SOIL EXCAVATED SHALL BE DISPOSED OF PROPERLY IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
8. FILL TREE PITS PER DETAILS WITH PLANTING SOIL SPECIFIED HERE.
9. TREE PIT PLANTING SOIL SHALL BE COMPACTED NO MORE THAN 85 PERCENT.

4 LANDSCAPE PLANTING SOIL COMPOSITION & SPECIFICATION

NTS JPD-CO-PLA-28

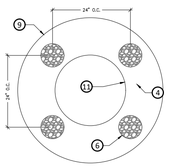


5 EXISTING TREE TO REMAIN - PROTECTION

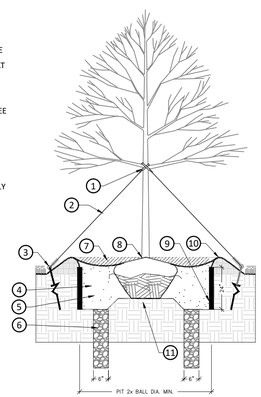
NTS JPD-CO-PLA-329343-24

NOTES: TREE PLANTING (>2"CAL.)

1. ALL PLANT MATERIALS SHALL BE FLORIDA #1 OR BETTER IN ACCORDANCE WITH FLORIDA GRADES AND STANDARDS.
2. DIG THE PLANTING HOLE A MINIMUM OF 2x WIDTH OF ROOTBALL FOR AT LEAST THE FIRST 12 INCHES OF BELOW 12 INCHES, DIG HOLE WIDE ENOUGH TO PERMIT ADJUSTING. DO NOT DIG THE HOLE DEEPER THAN ROOT BALL DEPTH.
3. SCARIFY THE SUBGRADE AND SIDES OF THE PLANTING HOLE WHEN PLANTING IN CLAY SOILS (MORE THAN 15% CLAY).
4. LIFT AND SET THE TREE BY ROOT BALL ONLY. DO NOT LIFT USING THE TREE TRUNK AND DO NOT USE TREE TRUNK AS A LEVER.
5. SET THE TOP OF THE ROOT BALL 2"-3" HIGHER THAN THE SOIL SURFACE
6. AFTER THE TREE IS SET IN PLACE, REMOVE BURLAP, WIRE AND STRAPS FROM AT LEAST THE UPPER ⅓ OF THE ROOTBALL.
7. BACKFILL WITH EXISTING SOIL THAT HAS BEEN WELL-TILLED OR BROKEN UP. DO NOT ADD AMENDMENTS TO THE BACKFILL SOIL. AMEND THE SURFACE WITH MULCH.
8. APPLY A 2-3" (SETTLED) DEPTH OF MULCH TO THE PLANTING SURFACE. LEAVE A 2" SPACE AROUND THE TRUNK FOR AIR CIRCULATION.
9. PRUNING SHALL BE LIMITED TO DEAD, DISEASED, OR BROKEN LIMBS ONLY AND SHALL BE IN ACCORDANCE WITH ANSI A300 SPECIFICATIONS.
10. REMOVE ANY TRUNK WRAP REMAINING AT TIME OF PLANTING. NO WRAPS SHALL BE PLACED ON TRUNK.



PLAN

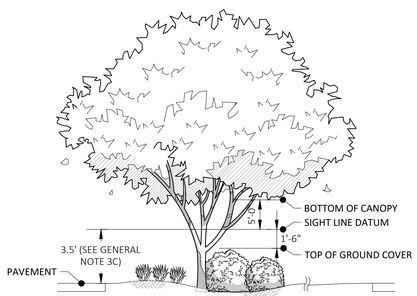


SECTION

1. ARBORTIE GREEN STRAPS KNOTTED PER MANF. SPEC.
2. FABRIC STRAPS. WIRE WILL NOT BE ACCEPTED UNLESS OTHERWISE NOTED.
3. ARBORTIE HD15 HEAVY DUTY ANCHORING KIT INSTALLED PER MANF. SPEC.
4. SPECIFIED PLANTING MIX. WATER AND TAMP TO REMOVE AIR POCKETS AND PREVENT SETTLING.
5. PLANTING TABLETS
6. TREE CHIMNEY. AGGREGATE FILLED WITH 3/8" PEA GRAVEL 12" BELOW IMPERMEABLE STRATA. MIN. 6" DIAM. CHIMNEY. SPACED 24" O.C. CONTRACTOR TO PRICE FOR CHIMNEY AS UNIT PRICE. ADD ALTERNATIVE IF NEEDED PER FIELD CONDITIONS.
7. MULCH
8. ROOT BALL CROWN SHALL BE 2"-3" ABOVE FINISHED GRADE.
9. ROOT BARRIER. 24" DEPTH FROM TOP OF TREE PIT DOWN, SURROUNDING ENTIRE TREE PIT OR AT EDGE OF HARDSCAPE IF LESS THAN SPECIFIED TREE PIT WIDTH IS NOT ACHIEVABLE IN URBAN CONDITIONS.
10. CREATE 3" CONTINUOUS RIM SOIL SAUCER W/ SPEC. TOPSOIL.
11. UNDISTURBED SUBSOIL TO FORM PEDESTAL TO PREVENT SETTLING.

6 TREE WELL - URBAN WITH CHIMNEY DRAINAGE & ROOT BARRIER

NTS JPD-CO-PLA-329343-06



THE INTENT OF THIS STANDARD IS TO PROVIDE A WINDOW WITH VERTICAL LIMITS OF NOT LESS THAN 5' ABOVE AND 1'-6" BELOW THE SIGHT LINE DATUM, AND HORIZONTAL LIMITS DEFINED BY THE LIMITS OF CLEAR SIGHT.

7 FDOT PICTORIAL WINDOW DETAIL

NTS JPD-CO-PLA-329343-09

8 LANDSCAPE NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PLANS AND WRITTEN NOTES. NO SUBSTITUTIONS SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL BY THE LANDSCAPE ARCHITECT, JERRY PATE DESIGN.
2. ALL INSTALLATION SHALL NOT DAMAGE OR IN ANY WAY ALTER EXISTING SITE STRUCTURES UNLESS SPECIFIED ON THE DEMOLITION PLANS. SHOULD ADDITIONAL DEMOLITION BE REQUIRED, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR CLARIFICATION OR INSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR OR REPLACE ANY UNINTENTIONALLY DAMAGED PORTIONS OF THE SITE AT NO EXTRA COST TO THE OWNER.
3. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB. THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THE PLANS.
4. LANDSCAPE MATERIALS SHALL BE ADJUSTED IN THE FIELD TO AVOID CONFLICTS WITH ANY PROPOSED OR REMAINING UTILITY STRUCTURES, DRAINAGE STRUCTURES, DITCHES, UNDER DRAINS, DITCH BLOCKS, STORM WATER FACILITIES AND DRAINAGE DISCHARGE PATHS, EXISTING SIGNAGE, AND EXISTING LIGHTING AND THEIR APPURTENANCES. THE CONTRACTOR SHALL NOT INSTALL THE PROPOSED IMPROVEMENTS IF A CONFLICT EXISTS. ANY COSTS TO REMOVE AND/OR REPAIR WORK ADJUSTED THAT HAS NOT BEEN APPROVED PREVIOUSLY BY THE LANDSCAPE ARCHITECT SHALL BE AT THE CONTRACTOR'S EXPENSE..
5. PLANT QUANTITIES SHOWN ON THE LANDSCAPE PLAN ARE MINIMUM ONLY. THE CONTRACTOR IS RESPONSIBLE FOR THE CONTRACTOR'S OWN QUANTITY TAKE-OFF, AND SHALL PROVIDE ALL PLANT MATERIAL REQUIRED TO FILL THE PLANTING BEDS AT THE SPACING INDICATED ON THE PLANTING LEGEND.
6. THE CONTRACTOR SHALL VERIFY THAT, PRIOR TO MOVING ON SITE, ALL EQUIPMENT WHICH LAST OPERATED IN PLACES KNOW TO BE INFESTED WITH NOXIOUS WEEDS IS FREE OF SOIL, SEEDS, VEGETATIVE MATTER, OR OTHER DEBRIS THAT COULD CONTAIN OR HOLD SEEDS.
7. THE CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE JOB SITE. IF THE CONTRACTOR NEEDS HAZARDOUS MATERIALS TO PERFORM THE CONTRACTED WORK, THE CONTRACTOR SHALL REQUEST, IN WRITING, ADVANCE PERMISSION FROM THE OWNER. IF ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL IS FOUND ON THE PROJECT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER.
8. ANY PUBLIC LAND SURVEY SYSTEM CORNER OR ANY MONUMENT THAT PERPETUATES THE RIGHT-OF-WAY WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED BY THE CONTRACTOR. IF A MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHOULD NOTIFY THE OWNER.
9. ALL TREE INSTALLATIONS SHALL ADHERE TO LOCAL CITY CODES & ORDINANCES.

PLANTING BED PREPARATION

1. ALL TRASH, ASPHALT, CONCRETE SPOILAGE, WEEDS AND OTHER SPOILAGE SHALL BE REMOVED FROM SITE PRIOR TO MOBILIZATION OF PLANTING CONTRACTOR.
2. ALL AREAS TO BE PLANTED OR SODDED SHALL BE GRADED TO SITE SPECIFICATIONS PRIOR TO MOBILIZATION OF PLANTING CONTRACTOR.
3. CONTRACTOR SHALL CONFIRM ALL PLANTING BEDS ARE NOT COMPACTED BEYOND 85 PERCENT TO PROMOTE DRAINAGE. SHOULD COMPACTED SOILS EXIST, SOILS SHALL BE EXCAVATED AND REPLACED WITH WELL-DRAINING SOIL PRIOR TO MOBILIZATION OF PLANTING CONTRACTOR. NO PARKING LOT SUB-BASE, ASPHALT MATERIAL OR CONCRETE SPOILS SHALL REMAIN IN PLANTING BEDS.
4. CONTRACTOR SHALL ENSURE NO STANDING WATER AT EDGES WHERE HARDSCAPE & LANDSCAPE MEET.
5. ALL EXISTING VEGETATION SHALL BE REMOVED IN ALL PLANTING BED AREAS UNLESS OTHERWISE NOTED ON THE PLANS. HERBICIDE MANUFACTURER SPECIFICATIONS AND INSTRUCTIONS SHALL BE FOLLOWED AS TO TREATMENT DILUTION, MIX, APPLICATION, AND TIME PERIODS BETWEEN APPLICATIONS AS APPLICABLE TO ASSURE WEEDS ARE ELIMINATED FROM THE PLANTING BEDS PRIOR TO COMMENCING PLANTING. ALL PERSONNEL INVOLVED IN THE CHEMICAL PROGRAM ARE TO RECEIVE THE PROPER TRAINING AND LICENSURE, AND FOLLOW THE OPERATING GUIDELINES PROVIDED BY FDOT FOR CHEMICAL CONTROL. CONTACT THE COUNTY EXTENSION SERVICE FOR ADDITIONAL INFORMATION REGARDING HERBICIDES, PESTICIDES, AND REQUIRED LICENSES.
6. ALL SOIL AMENDMENTS SHALL BE ADDED TO THE PLANTING BEDS AND INCORPORATED INTO THE SOIL PRIOR TO COMMENCING FINAL GRADING AND PLANTING. ALL BEDS SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE WITH NO AREAS WHERE STANDING WATER CAN OCCUR.
7. ALL PLANTING BED AREAS SHALL BE TREATED WITH A GRANULAR PRE-EMERGENT HERBICIDE AT A RATE OF 2.3 – 4.6 POUNDS PER 1000 SQ FT DEPENDING ON WEEDS TO BE CONTROLLER UNLESS OTHERWISE STATED BY MANUFACTURER LABEL. PRE-EMERGENT MUST BE APPLIED BEFORE RAINFALL OR IRRIGATION. IF NO RAINFALL OR IRRIGATION IS ANTICIPATED IT MUST BE WORKED INTO THE TOP 2 INCHES OF SOIL.

UTILITY NOTES

1. UTILITIES SHOWN ON THE PLANS SHOULD BE CONSIDERED APPROXIMATE ONLY, AND INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
2. THE CONTRACTOR SHALL NOTIFY ALL UTILITIES TWO BUSINESS DAYS PRIOR TO DEMOLITION AND/OR EXCAVATION. CALL 1-800-292-8525 (OR 811) SO THAT UNDERGROUND UTILITIES MAY BE FIELD LOCATED.
3. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES DURING CONSTRUCTION. NO UTILITY IS TO BE RELOCATED. PLANTING SHALL BE ADJUSTED HORIZONTALLY, AT THE DIRECTION OF THE LANDSCAPE ARCHITECT, TO ADDRESS ANY UTILITY CONFLICTS.

PLANTING NOTES

1. MULCH: 3 INCH DEPTH – CLEAN PINE NEEDLES
2. THE LANDSCAPE INSTALLATION MUST BE PROPERLY SEQUENCED WITH OTHER CONSTRUCTION SO THAT THE LANDSCAPE IS NOT DAMAGED BY OTHER WORK/TRADES AND VICE VERSA.
3. ALL PLANTS SHALL MEET SIZE, CONTAINER, AND SPACING SPECIFICATIONS AS SHOWN IN THE PLANT SCHEDULE. THE CONTRACTOR SHALL GUARANTEE PLANT HEALTH AND SURVIVABILITY FOR ONE YEAR FROM DATE OF PROJECT ACCEPTANCE BY THE LANDSCAPE ARCHITECT. ANY MATERIAL NOT MEETING SPECIFICATIONS OR DISPLAYING POOR HEALTH SHALL BE REPLACED AT CONTRACTOR'S EXPENSE WITHIN TWO WEEKS OF NOTICE.
4. ALL PLANT MATERIAL SHALL BE FLORIDA NO. 1 OR BETTER AS GIVEN IN "GRADES AND STANDARDS FOR NURSERY PLANTS", CURRENT EDITION, STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, DIVISION OF PLANT INDUSTRY, TALLAHASSEE, FLORIDA. INSTALLED PLANT MATERIAL NOT MEETING SPECIFICATIONS SHALL BE REMOVED AND REPLACED AT CONTRACTOR'S EXPENSE. ALL PLANTS MUST BE BROUGHT TO THE SITE FREE OF WEEDS. ADDITIONALLY, THE CONTRACTOR SHALL PROVIDE THE LANDSCAPE ARCHITECT WITH REPRESENTATIVE PLANT PHOTOS TO APPROVE FOR ALL PLANT MATERIALS PRIOR TO ANY PLANT DELIVERY. MEASURING STICKS SHALL BE SHOWN IN PHOTOS, AS APPROPRIATE.
5. ALL PLANT MATERIALS INDICATED WITH A GALLON SIZE SHALL BE CONTAINER GROWN AND WITHIN A CONTAINER APPROPRIATE FOR THE PLANT SIZE. ROOT BOUND PLANTS SHALL NOT BE ACCEPTED. NO SUBSTITUTIONS SHALL BE PERMITTED WITHOUT PRIOR APPROVAL OF THE LANDSCAPE ARCHITECT.
6. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO MAKE PLANTING BED FIELD CHANGES TO ACCOMMODATE SITE CONDITIONS AND TO ACHIEVE THE DESIGN INTENT. THE CONTRACTOR SHALL FLAG ALL TREE AND BEDLINE LOCATIONS FOR APPROVAL OF LANDSCAPE ARCHITECT PRIOR TO ANY INSTALLATION.
7. THE CONTRACTOR SHALL CONDUCT REPRESENTATIVE SOIL ANALYSIS PRIOR TO THE INSTALLATION OF ANY PLANT MATERIAL. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF ANY IMPROPER SOIL CONDITION INCLUDING NUTRITIONAL DEFICIENCIES, WETNESS, MUCK, DEBRIS, ETC. AND SHALL RECOMMEND TO THE LANDSCAPE ARCHITECT, PRIOR TO INSTALLATION, ALL SOIL AMENDMENTS THAT MAY BE NECESSARY TO PROMOTE HEALTHY VIGOROUS PLANT GROWTH. THE SOIL SAMPLE TEST RESULTS SHALL INCLUDE, AT A MINIMUM, PH, PRIMARY MACRONUTRIENTS, MICRONUTRIENTS, PERCENTAGE OF ORGANIC MATTER, AND SOIL TEXTURE. SUBMIT ALL SOIL SAMPLES AND AMENDMENT RECOMMENDATIONS TO THE LANDSCAPE ARCHITECT FOR REVIEW. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR ALL APPROPRIATE SOIL AMENDMENTS AND A PROPERLY PREPARED FINISHED SOIL LAYER IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS 162 AND 967.
8. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY EXISTING VEGETATION INTENDED TO REMAIN THAT IS DISTURBED BY PLANT MATERIAL INSTALLATION ACTIVITIES. THIS REPAIR /REPLACEMENT SHALL BLEND SEAMLESSLY WITH THE EXISTING LANDSCAPE.
9. THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES AND PLANS IN PREPARING PLANTING AREAS, INCLUDING FINAL GRADE ELEVATIONS.
10. ALL PLANT MATERIAL MUST BE PLANTED IMMEDIATELY UPON DELIVERY TO THE SITE AND WATERED IN, BY HAND IF THE IRRIGATION SYSTEM IS NOT YET FUNCTIONING PROPERLY. ANY PLANT MATERIAL NOT INSTALLED WITHIN 6 HOURS OF DELIVERY TO THE SITE MUST BE STORED IN AN APPROVED, PROTECTED HOLDING AREA AND SHALL BE WATERED AS NECESSARY TO MAINTAIN PLANT HEALTH AND QUALITY. ALL BLACK PLASTIC PLACED AROUND TREE ROOTBALLS SHALL BE REMOVED IMMEDIATELY UPON DELIVERY TO THE SITE. BURLAP WRAPPING SHALL STAY IN PLACE. FOR TREES NOT PLANTED WITHIN 6 HOURS OF DELIVERY TO THE SITE, WATER SHALL BE IMMEDIATELY APPLIED TO THE ROOTBALL AND FOLIAGE. THE TOPS SHALL BE UNITIED AND THE TREES STORED UPRIGHT WITH MULCH, PINE STRAW OR HAY COVERING THE ROOTBALLS. TREES SHALL NOT BE STORED LYING DOWN. IF TREES HAVE PLASTIC TRUNK PROTECTORS, THE PROTECTORS MAY STAY IN PLACE PRIOR TO PLANTING BUT SHALL NOT BE LEFT ON INDEFINITELY.
11. FERTILIZE ALL TREES WITH AGRIFORM 21 GRAM TABLETS, SLOW RELEASE 20-10-5 ANALYSIS WITH ONE TABLET PER ½" OF TRUNK DIAMETER.
12. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT A MINIMUM OF 48 HOURS PRIOR TO COMPLETION TO SCHEDULE A FINAL WALKTHROUGH. A FINAL WALK-THROUGH SHALL NOT BE PERFORMED IF PREVIOUS PUNCH LISTS ARE NOT COMPLETED.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL PLANTING AND GRADES UNTIL FINAL ACCEPTANCE BY THE LANDSCAPE ARCHITECT. THIS MAINTENANCE INCLUDES KEEPING BEDS FREE OF DEBRIS, WEEDS, DISEASES, AND INFESTATIONS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PROVIDING SUFFICIENT WATER TO THE PLANTS DURING THIS TIME, AND REPAIRING EROSION AREAS.

CERTIFICATION:
Landscape Architect submitting the landscape & tree protection plan has read and is familiar with Ch. 12-6 of the Code of the City of Pensacola, Florida, pertaining to Tree and Landscape Regulation.

CONFORMANCE:
Contractor shall adhere to American National Standards Institute, ANSI A300 "Best Management Practices", Tree Planting, Second Edition, 2014 when installing, pruning, removing or maintaining trees as set forth in Ch-12-6 of the Code of the City of Pensacola, Florida.

Jerry Pate Design
301 Schubert Drive – Pensacola, FL 32504
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THE NEW PALAFOX
S. PALAFOX STREET, PENSACOLA FL 32502

LANDSCAPE DETAILS

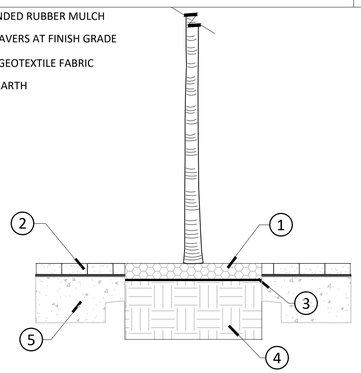
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DRAWN BY: EH
CHECKED BY: BA
DATE: 08/29/2025
SHEET NO.: L9.04

100% CONSTRUCTION DOCUMENTS - NOT FOR CONSTRUCTION

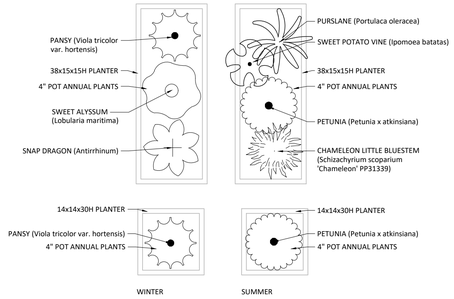
1 NO FAULT BONDED RUBBER MULCH
2 PEDESTRIAN PAVERS AT FINISH GRADE
3 NON-WOVEN GEOTEXTILE FABRIC
4 COMPACTED EARTH
5 6" CONCRETE



1 BONDED RUBBER MULCH IN PALM TREE PIT

NTS

JPD-CO-SPO-PLAY-321816-01



2 ANNUAL PLANTER DETAIL

NTS

P-PFX-25

Jerry Pate Design
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850-479-4853 www.JerryPateDesign.com

THE NEW PALAFOX
S. PALAFOX STREET, PENSACOLA FL 32502

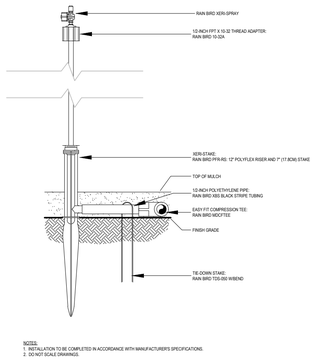
LANDSCAPE DETAILS

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

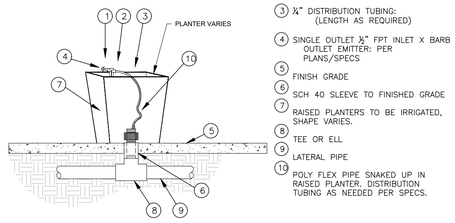
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DRAWN BY: EH
CHECKED BY: BA
DATE: 08/29/2025
SHEET NO.: L9.05

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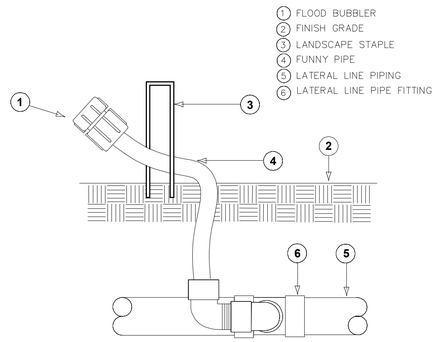
1 XERI-SPRAY ON XERI-POLYFLEX RISER

NTS JPD-IR-CIRR-SPRA-21



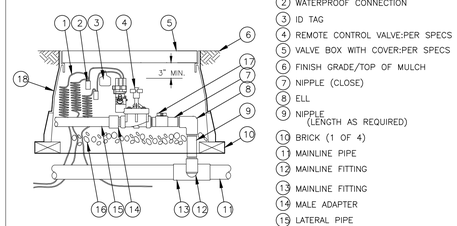
2 PLANTER IRRIGATION SCHEMATIC

NTS



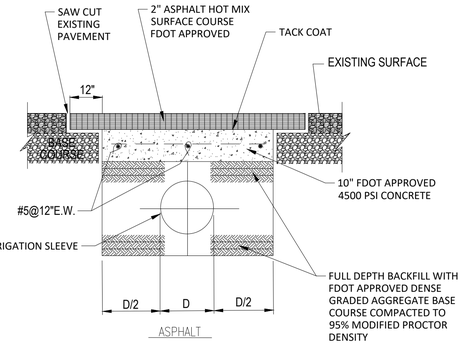
3 FLOOD BUBBLER

NTS JPD-IR-GOVI-DRIP-05



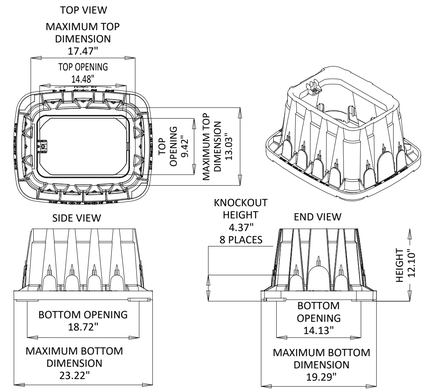
4 ELECTRIC REMOTE CONTROL VALVE

NTS JPD-IR-GOVI-VALV-02



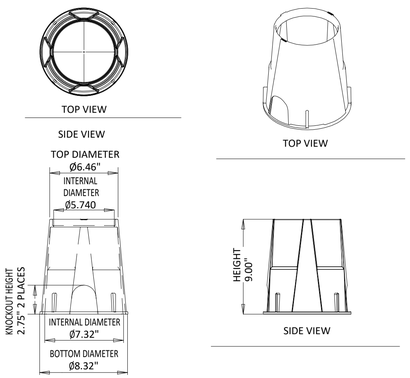
5 ASPHALT PAVEMENT REPAIR DETAIL

NTS JPD-IR-CIRR-PIPE-25



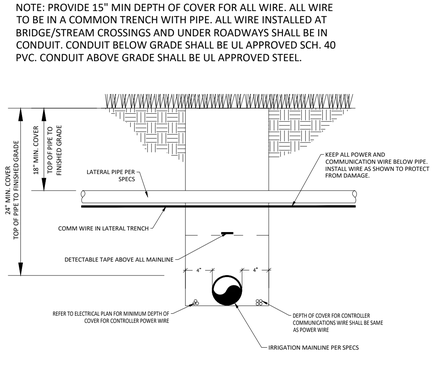
6 JUMBO VALVE BOX

NTS JPD-IR-GOVI-AUXI-01



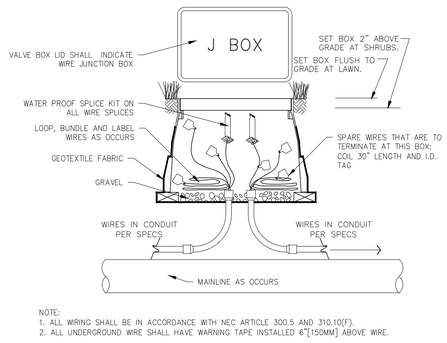
7 6" ROUND VALVE BOX

NTS JPD-IR-GOVI-AUXI-02



8 IRRIGATION TRENCHES

NTS JPD-IR-GOVI-PIPE-331116-01



9 WIRE BUNDLE JUNCTION BOX

NTS JPD-IR-GOVI-AUXI-03

00 IRRIGATION NOTES

1. LOCATE ALL UNDERGROUND UTILITIES, ELECTRICAL WIRING, WATER, SEWER, TELEPHONE, CABLE TV, AND OTHER UNDERGROUND LINES BEFORE LANDSCAPE AND IRRIGATION INSTALLATION. NO UTILITIES SHALL BE RELOCATED.
2. ALL IRRIGATION COMPONENTS SHALL BE INSTALLED WITHIN THE PROJECT BOUNDARIES.
3. IRRIGATION DRAWINGS SHALL BE CONSIDERED SCHEMATIC FOR GRAPHIC CLARITY. ALL PIPE AND IRRIGATION COMPONENTS SHALL BE INSTALLED IN LANDSCAPE PLANTED AREAS UNLESS CROSSING IMPERVIOUS HARDSCAPE, CONCRETE, ASPHALT OR OTHER. WHERE DEVIATIONS FROM THIS SCHEMATIC ARE NECESSARY CONTRACTOR SHALL MAINTAIN PIPE SIZING AND HYDRAULIC INTENT AND INSTALL SLEEVING PER SPECS UNDER ALL IMPERVIOUS SURFACES. ANY DEVIATIONS FROM HYDRO-ZONING OR PRODUCTS SHALL REQUIRE THE APPROVAL OF THE LANDSCAPE ARCHITECT OR OWNER.
4. ANY DEVIATION FROM HYDRAULIC INTENT SHALL BE APPROVED VIA RFI BY THE LANDSCAPE ARCHITECT/OWNER.
5. THE CONTRACTOR SHALL ADJUST ALL IRRIGATION HEADS TO COVER ONLY INTENDED AREAS AND NOT BUILDINGS, STRUCTURES, FENCING, CONCRETE OR ANY OTHER HARDSCAPE.
6. THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS TO LANDSCAPE ARCHITECT AND OWNER SHOWING ALL INFORMATION REQUIRED BY LOCAL CODES AND NECESSARY FOR THE EFFICIENT OPERATION AND MAINTENANCE OF THE SYSTEM.
7. ELEMENT LOCATION ON THE DRAWINGS IS SCHEMATIC SHOWING INTENT. CONTRACTOR SHALL NOT MAKE CHANGES TO PIPE SIZING OR ROUTING WITHOUT PRIOR APPROVAL OF OWNER & IRRIGATION DESIGNER. LOCATE ALL VALVES IN LANDSCAPED, SHRUB, GROUNDCOVER AREAS.
8. IRRIGATION SCHEDULES, RUNTIMES, WATERING SCHEDULE & ANALYSIS ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR PERFORMING THEIR OWN TAKE OFF BASED ON PLAN DOCUMENTS & ENSURING UNIFORM COVERAGE OF LANDSCAPED AREAS. SHOULD LANDSCAPE MATERIAL REQUIRE INCREASED PRECIPITATION THE IRRIGATION WATERING SCHEDULE SHALL BE ADJUSTED AS NEEDED TO ENSURE A HEALTHY LANDSCAPE.
9. VALVE VAULTS: VALVE BOXES SHALL BE, PLASTIC LOCKABLE, FOR EACH GATE VALVE, MANUAL CONTROL VALVE AND REMOTE CONTROL VALVE. VAULT SIZES SHALL BE ADJUSTABLE FOR VALVE USED. CAST THE WORD "IRRIGATION" ON THE LID. DUCTILE IRON LID. VALVE VAULT SHALL HAVE A TOP OPENING OF 22 1/4 INCH BY 16 3/8 INCH AND BOTTOM OPENING OF 25 1/4 INCH BY 19 3/8 INCH AND STAND 12 INCHES TALL. ADD EXTENSION AS NEEDED TO MAINTAIN WITH GRADE.
10. ROUND VALVE BOXES: 6 INCH DIAMETER AT THE TOP AND 8 5/8 INCH AT BOTTOM. DUCTILE IRON LID.
11. ALL REMOTE CONTROLLED IRRIGATION ZONE VALVES SHALL HAVE A BALL VALVE BEFORE THE INTAKE SIDE OF THE VALVE FOR ISOLATION & MAINTENANCE PURPOSES.
12. THE CONTROLLER SHALL BE EQUIPPED BY THE CONTRACTOR WITH PROPERLY LOCATED AND INSTALLED RAIN / FREEZE SENSORS. THE SENSORS SHALL BE LOCATED IN SUCH A MANNER SO THAT THEY ARE UNOBSTRUCTED, AND DIRECTLY EXPOSED TO NATURAL RAINFALL, WIND, AND SUNLIGHT FROM ALL DIRECTIONS, BUT NOT TO RUNOFF WATER FROM SWALES, ROOFS OR OTHER SURFACES.
13. EARTH GROUNDING IS REQUIRED PER MANUFACTURER'S SPECIFICATIONS.
14. CONTRACTOR SHALL AMEND SOIL ADJACENT TO GROUNDING RODS/PLATES TO ACHIEVE MANUFACTURER OHM REQUIREMENTS.
15. MAINLINE PIPE: SHALL BE BUTT FUSED HDPE DR 11 4710. RESTRAINED FOLLOWING THE REQUIREMENTS SET FORTH BY PIPE AND FITTING MANUFACTURERS.
16. LATERAL PIPE: THREE INCH 3" AND GREATER SHALL BE BUTT FUSED HDPE DR 11 4710. RESTRAINED FOLLOWING THE REQUIREMENTS SET FORTH BY PIPE AND FITTING MANUFACTURERS.
17. LATERAL PIPE: 2.5" AND LESS, SHALL BE HDPE DR 11 4710 WITH BUTT FUSED JOINTS.
18. PVC PIPING SOLVENT-CEMENTED JOINTS: CLEAN AND DRY JOINING SURFACES. JOIN PIPE AND FITTINGS ACCORDING TO: COMPLY WITH ASTM F 402 FOR SAFE HANDLING PRACTICE OF CLEANERS, PRIMERS AND SOLVENT CEMENTS. PVC PRESSURE PIPING: JOIN SCHEDULE NUMBER, ASTM D 1785, PVC PIPE AND PVC SOCKET FITTINGS ACCORDING TO ASTM D 2672. JOIN OTHER-THAN-SCHEDULE-NUMBER PVC PIPE AND SOCKET FITTINGS ACCORDING TO ASTM D 2855.
19. IRRIGATION SLEEVES: SHALL BE SCHEDULE 40 PVC, 2X TOTAL PIPE DIAMETER.
20. AIR/VACUUM RELIEF VALVES: SIZED TO MATCH MAINLINE PIPING WHERE LOCATED. SEE PLAN DOCUMENT.
21. REQUESTS TO USE EQUAL, SUBSTITUTE MATERIALS SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT IN WRITING AND OWNER'S APPROVAL GIVEN IN WRITING BEFORE THE SUBSTITUTION IS ALLOWED. REQUESTS TO USE EQUAL, SUBSTITUTE MATERIALS SHALL INCLUDE COMPLETE PRODUCT SPECIFICATIONS AND ANY COST SAVINGS TO THE PROJECT.
22. IF DISCREPANCIES OCCUR BETWEEN THE PLANS, NOTES, AND ACTUAL CONDITIONS CONTACT THE LANDSCAPE ARCHITECT IN WRITING FOR CLARIFICATION BEFORE PROCEEDING.
23. THE INSTALLER SHALL BE FAMILIAR WITH ALL REQUIREMENTS FOR THE WORK, AND TO CONDUCT HIS WORK IN A CLEAN, SAFE, AND WORKMANLIKE MANNER. THE OWNER RESERVES THE RIGHT TO ACT TO PROTECT HIS PROPERTY AND THE OTHER PERSONNEL AT WORK THERE, AND TO MAKE EMERGENCY REPAIRS OR TAKE CORRECTIVE ACTION IF THE INSTALLER DOES NOT FULFILL HIS OBLIGATIONS IN A TIMELY MANNER. THE OWNER FURTHER RESERVES THE RIGHT TO BACK-CHARGE THE INSTALLER TO COVER SUCH EXPENSES, TO THE EXTENT ALLOWED UNDER APPLICABLE LAW.
24. IRRIGATION MATERIALS AND WORKMANSHIP SHALL BE WARRANTIED FOR ONE YEAR. MANUFACTURER'S WARRANTIES SHALL BE PASSED TO THE OWNER.
25. ALL WORK SHALL BE DONE IN ACCORDANCE WITH PREVAILING CODES AND REGULATIONS, AND COUNTY IRRIGATION STANDARDS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY AND CONFORM TO THE PARTICULAR CODES AND REGULATIONS APPLICABLE TO THIS LOCATION, AS WELL AS COUNTY IRRIGATION STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, INCLUDING THOSE FOR ANY NEW WATER LINE TAPS OR WELLS, LOCATES, AND INSPECTIONS.
26. IRRIGATION SYSTEM AND ITS COMPONENTS SHALL BE INSTALLED ACCORDING TO MANUFACTURES' SPECIFICATIONS
27. ALL WIRE SPLICES SHALL OCCUR IN A VALVE BOX WITH WATERPROOF WIRE SPLICE CONNECTION.
28. POP-UP SPRAYS, ROTORS AND BUBBLERS SHALL BE LOCATED MINIMUM 6 INCHES FROM ROADWAY SURFACES/CURBS WHICH WILL ENCOUNTER VEHICULAR TRAFFIC.
29. THRUST BLOCKS SHALL BE INSTALLED PER DETAILS AS NECESSARY FOR SAFE OPERATION OF THE IRRIGATION SYSTEM.
30. PVC PIPE AND FITTINGS
    - 30.1. COMPLY WITH ASTM D 1785, ASTM D 2241, AWWA C-900 OR AWWA C-905. SDR PR PIPE SHALL HAVE A MINIMUM WALL THICKNESS OF SDR-26. ALL PIPE USED WITH EFFLUENT WATER SHALL BE DESIGNATED FOR NON-POTABLE USE BY LABEL OR INDUSTRY STANDARD COLOR PURPLE, PANTONE PURPLE 522C
    - 30.2. SOLVENT WELD FITTINGS SHALL BE MINIMUM OF SCHEDULE 40 IN ASTM D 2466.
    - 30.3. THREADED FITTINGS SHALL BE MINIMUM OF SCHEDULE 40 IN ASTM D 2464.
    - 30.4. GASKET FITTINGS SHALL CONFORM TO ASTM D 3139, AND GASKETS TO ASTM F 477.
    - 30.5. FLEXIBLE PVC PIPE TO BE PRESSURE REGULATED TO ASTM D 2740 WITH STANDARD ODS COMPATIBLE WITH PVC IPS SOLVENT WELD FITTINGS.
    - 30.6. PVC CEMENT TO MEET ASTM D 2564, AND CLEANER TO MEET ASTM F 656
31. WIRE
    - 31.1. DIRECT BURIED WIRE (UF) UNDERGROUND FEEDER MUST BE LABELED FOR SUCH.
    - 31.2. USE WATER TIGHT CONDUITS FOR NON-UF WIRE AND HAVE UL LISTED TWN OR THHN TYPE WIRE PER THE NEC.
    - 31.3. SIZE WIRE PER MANUFACTURER RECOMMENDATIONS, IN-RUSH CURRENT, WIRE LENGTH, NUMBER OF SOLENOIDS AND LINE PRESSURE.

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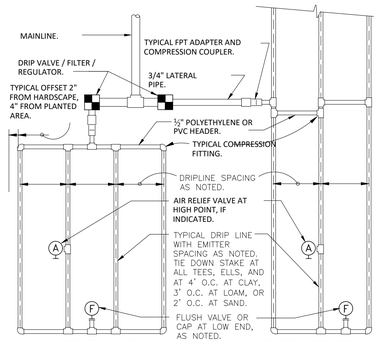
IRRIGATION DETAILS

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012
DRAWN BY: EH
CHECKED BY: BA
DATE: 08/29/2025
SHEET NO.: L9.06

100% CONSTRUCTION DOCUMENTS - NOT FOR CONSTRUCTION



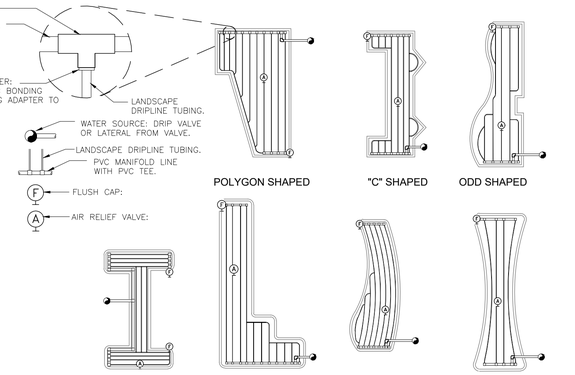
MAXIMUM LATERAL LENGTH (FEET)						
	EMITTER FLOW RATE GPH					
	12" SPACING		18" SPACING		24" SPACING	
PSI	0.6	0.9	0.6	0.9	0.6	0.9
10	125	96	175	135	218	171
20	249	191	350	171	442	340
30	307	236	434	333	550	422
40	350	268	495	380	627	171
50	125	96	175	135	218	171
60	125	96	175	135	218	171

GRID PRECIPITATION RATES (IN/HR)			
		EMITTER FLOW RATE	
EMITTER SPACING	LATERAL SPACING	0.6	0.9
12	12	0.96	1.44
18	18	0.69	1.03
24	24	0.28	0.41

LATERAL FLOW PER 100 FT (GPM)			
EMITTER FLOW	12" SPACING	18" SPACING	24" SPACING
0.6 GPH	1.0 GPM	0.67 GPM	0.50 GPM
0.9 GPH	1.5 GPM	1.0 GPM	0.75 GPM

MAXIMUM FLOW PER ZONE		
	MAX GPM	PSI LOSS
SCHEDULE 40 PVC HEADER SIZE		
1/2"	4.7 GPM	7.7 PSI
3/4"	8.3 GPM	5.6 PSI
1"	13.5 GPM	4.2 PSI
1-1/2"	33.9 GPM	2.9 PSI
2"	52.4 GPM	1.9 PSI
POLY PIPE HEADER SIZE		
1/2"	4.7 GPM	8.8 PSI
3/4"	8.3 GPM	6.3 PSI
1"	13.5 GPM	4.8 PSI
1-1/2"	31.8 GPM	2.9 PSI
2"	52.4 GPM	2.2 PSI

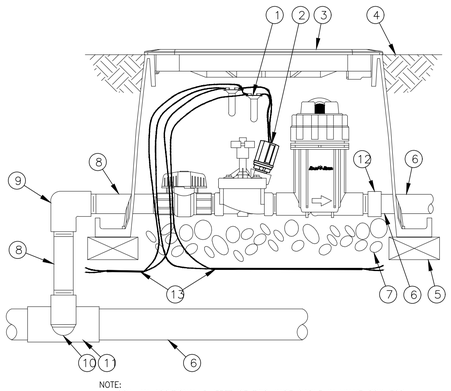
SLOPED CONDITION NOTE:
1. DRIPLINE LATERALS SHOULD FOLLOW THE CONTOURS OF THE SLOPE WHENEVER POSSIBLE.
2. INSTALL AIR RELIEF VALVE AT HIGHEST POINT.
3. NORMAL SPACING WITHIN THE TOP ⅔ OF SLOPE.
4. INSTALL DRIPLINE AT 25% GREATER SPACING AT THE BOTTOM ⅓ OF THE SLOPE.
5. WHEN ELEVATION CHANGE IS 10 FT OR MORE, ZONE THE BOTTOM ⅓ ON A SEPARATE VALVE.



1 TYPICAL DRIPLINE REQUIREMENTS

NTS

JPD-IR-GOVI-DRIP-01

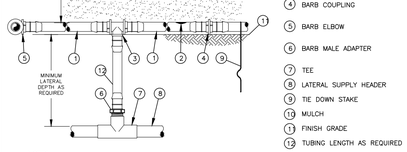


1. WATERPROOF SPLICE CONNECTION: DBY/R (TWO REQUIRED)
2. RAIN BIRD DRIP KIT: XCZ-100-PRB-COM WITH IVM-SOL
3. VALVE BOX WITH COVER: RAIN BIRD VB-JUMBO (OAE) PLASTIC VALVE BOXES SHALL BE USED IN LANDSCAPE BEDS. DUCTILE IRON VALVE BOXES SHALL BE USED IN HARDSCAPE/PAVERS
4. FINISH GRADE OR TOP OF MULCH
5. BRICK (1 OF 4)
6. LATERAL PIPE
7. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
8. PVC SCH 80 NIPPLE 1"
9. PVC SCH 80 ELBOW
10. PVC SCH 80 NIPPLE (2" LENGTH, HIDDEN) AND PVC SCH 80 ELBOW
11. PVC SCH 80 TEE OR ELBOW
12. PVC SCH 40 MALE ADAPTER
13. TWO-WIRE CABLE BETWEEN DEVICES (FIELD DECODER, SENSOR DECODER, LINE SURGE PROTECTOR CONTROLLER)

2 XCZ-100-PRB-COM WITH IVM-SOL

NTS

JPD-IR-CIRR-VALV-328406-18



1. ON-SURFACE DRIPLINE
2. INLINE DRIP EMITTER OUTLET, SEE PLANS FOR DRIPLINE OUTLET & ROW SPACING.
3. BARB TEE
4. BARB COUPLING
5. BARB ELBOW
6. BARB MALE ADAPTER
7. TEE
8. LATERAL SUPPLY HEADER
9. TIE DOWN STAKE
10. MULCH
11. FINISH GRADE
12. TUBING LENGTH AS REQUIRED

NOTES:
1. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.
2. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.

3 ON SURFACE DRIPLINE RISER ASSEMBLY

NTS

JPD-IR-GOVI-DRIP-04



NOTES:
1. INSTALL (1) FLUSH VALVE AT THE END OF EACH 3/4" TUBING RUN.
2 ENSURE THAT THE COILED DRIP TUBING IS OF SUFFICIENT LENGTH TO COMPLETELY EXTEND 3' OUT OF THE VALVE BOX WHEN FLUSHING.

4 DRIP FLUSH BALL VALVE ASSEMBLY

NTS

JPD-IR-GOVI-DRIP-06



NOTES:
1. INSTALL MIN. (1) AIR RELIEF VALVE PER DRIP ZONE.

5 DRIP AIR RELIEF VALVE IN BOX

NTS

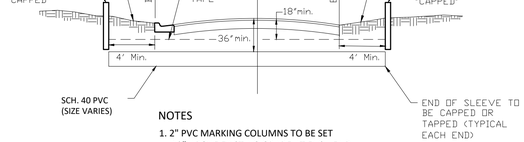
JPD-IR-GOVI-DRIP-07

1. TWO-WIRE CONTROLLER: RAIN BIRD ESP-LXIVM/PRO IN PLASTIC CABINET WITH WALL MOUNT. INSTALL CONTROLLER AND CABINET ON WALL PER MANUFACTURER'S RECOMMENDATIONS.
2.
3. JUNCTION BOX
4. 1-INCH CONDUIT AND FITTINGS FOR POWER SUPPLY WIRE
5. 2-INCH CONDUIT AND FITTINGS FOR TWO-WIRE CABLE
6. MAXICABLE TWO-WIRE PATH TO FIELD DEVICES USE A DIFFERENT CABLE JACKET COLOR FOR EACH PATH.
7. 1-INCH CONDUIT AND FITTINGS FOR GROUND WIRE. ONLY FOR OUTDOOR INSTALLATIONS.

NOTES:
1. USE STEEL CONDUIT FOR ABOVE GRADE AND SCH 40 PVC CONDUIT FOR BELOW GRADE CONDITIONS.
2. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS. IF CONTROLLER IS MOUNTED INDOORS, USE POWER SUPPLY GROUND.

KEY SPECIFICATIONS

FEATURE / MODEL	MAX PROGRAMS	MAX STATIONS	MAX SIMULSTATIONS	MASTER VALVES	FLOW SENSOR	WEATHER SENSORS
LX-IVM	10	60	8	5	5	4
LX-IVM PRO	40	240	16	10	10	8

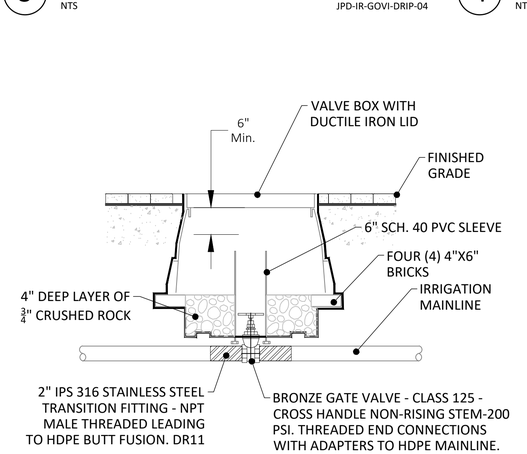


NOTES
1. 2" PVC MARKING COLUMNS TO BE SET 12" ABOVE EXISTING GRADE AT EACH END OF PVC SLEEVES.
2. MARKING COLUMNS TO BE REMOVED AFTER PIPE INSTALLATION
3. SLEEVES UNDER ALL HARDSCAPE ELEMENTS SHALL BE TWO TIMES THE DIAMETER OF THE PIPE WITHIN.

6 IRRIGATION SLEEVE

NTS

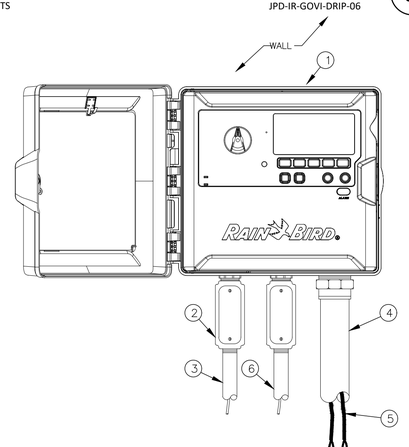
JPD-IR-GOVI-PIPE-03



7 BRONZE GATE VALVE - FIPT

NTS

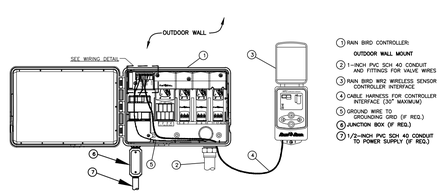
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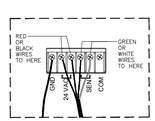
8 ESP-LXIVM TWO-WIRE CONTROLLER IN PLASTIC CABINET

NTS

JPD-IR-CIRR-CONT-328409-15



NOTES:
1. FOR BEST PERFORMANCE, THE CONTROLLER INTERFACE SHOULD BE INSTALLED AT LEAST FIVE FEET ABOVE THE GROUND.
2. FOR BEST PERFORMANCE, THE CONTROLLER INTERFACE BE INSTALLED AWAY FROM SOURCES OF ELECTRICAL INTERFERENCE (SUCH AS TRANSFORMERS, GENERATORS, PUMPS, FANS, ELECTRICAL METER BOXES) AND METAL OBJECTS TO MAXIMIZE COMMUNICATION RANGE.



9 WR2 WIRELESS RAIN/FREEZE SENSOR

NTS

JPD-IR-CIRR-AUXI-328409-12

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THE NEW PALAFOX
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IRRIGATION DETAILS

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012

DRAWN BY: EH | CHECKED BY: BA

DATE: 08/29/2025

SHEET NO.: L9.07

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LANDSCAPE ARCHITECTURE - SPECIFICATION INDEX	
Sheet Number	Sheet Title
SPECIFICATIONS	
L10.0	SPECIFICATIONS INDEX
L10.1	04 20 00 UNIT MASONRY
L10.2	04 20 00 UNIT MASONRY-CONT
L10.3	04 42 00 EXTERIOR STONE CLADDING
L10.4	04 42 00 EXTERIOR STONE CLADDING-CONT
L10.5	04 72 00 CAST STONE MASONRY
L10.6	10 14 16 PLAQUES
L10.7	12 93 00 SITE FURNISHINGS
L10.8	32 01 00 LANDSCAPE MAINT. & ESTABLISHMENT
L10.9	32 14 00 UNIT PAVING
L10.10	32 17 26 TACTILE WARNING SURFACING
L10.11	32 31 19 DECORATIVE METAL FENCING
L10.12	32 84 00 PLANTING IRRIGATION
L10.13	32 84 00 PLANTING IRRIGATION-CONT
L10.14	32 91 13 SOIL PREPARATION
L10.15	32 93 00 PLANTS
L10.16	32 93 00 PLANTS-CONT

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SPECIFICATIONS INDEX

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SHEET NO.: L10.0

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SECTION 04 20 00

UNIT MASONRY

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 **SUMMARY**

A. Section Includes:

1. Concrete masonry units.
2. Mortar and grout.
3. Steel reinforcing bars.
4. Ties and anchors.

B. Products Installed but not Furnished under This Section:

1. Cast-stone trim in unit masonry.

C. Related Requirements:

1. Section 033000 "Cast-in-Place Concrete".
2. Section 044200 "Exterior Stone Cladding" for stone trim secured with stone anchors.
3. Section 321400 "Unit Paving" for exterior unit masonry paving.

1.3 DEFINITIONS

A. CMU(s): Concrete masonry unit(s).

B. Reinforced Masonry: Masonry containing reinforcing steel in grouted cells.

1.4 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at **Project site**.

1.5 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: For the following:

1. Masonry Units: Show sizes, profiles, coursing, and locations of special shapes.
2. Reinforcing Steel: Detail bending, lap lengths, and placement of unit masonry reinforcing bars. Comply with ACI 315.

C. Samples for Verification: For each type and color of the following:

1. CMUs.

1.6 INFORMATIONAL SUBMITTALS

A. List of Materials Used in Constructing Mockups: List generic product names together with manufacturers, manufacturers' product names, model numbers, lot numbers, batch numbers, source of supply, and other information as required to identify materials used. Include mix proportions for mortar and grout and source of aggregates.

1. Submittal is for information only. Receipt of list does not constitute approval of deviations from the Contract Documents unless such deviations are specifically brought to the attention of Architect and approved in writing.

B. Qualification Data: For testing agency.

C. Material Certificates: For each type and size of the following:

1. Masonry units.
   a. Include **data on material properties**
2. Mortar mixes. Include description of type and proportions of ingredients.
3. Reinforcing bars.
4. Anchors, ties, and metal accessories.

D. Mix Designs: For each type of mortar. Include description of type and proportions of ingredients.

E. Cold-Weather **and Hot-Weather** Procedures: Detailed description of methods, materials, and equipment to be used to comply with requirements.

1.7 QUALITY ASSURANCE

A. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for materials and execution.

1. Build mockup **of typical wall area** as shown on Drawings.
2. Approval of mockups is for color, texture, and blending of masonry units; relationship of mortar to masonry unit colors; tooling of joints; and aesthetic qualities of workmanship.

a. Approval of mockups is also for other material and construction qualities specifically approved by Architect in writing.
b. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.

3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Store masonry units on elevated platforms in a dry location. If units are not stored in an enclosed location, cover tops and sides of stacks with waterproof sheeting, securely tied. If units become wet, do not install until they are dry.

B. Store cementitious materials on elevated platforms, under cover, and in a dry location. Do not use cementitious materials that have become damp.

C. Deliver preblended, dry mortar mix in moisture-resistant containers. Store preblended, dry mortar mix in delivery containers on elevated platforms in a dry location or in covered weatherproof dispensing silos.

D. Store masonry accessories, including metal items, to prevent corrosion and accumulation of dirt and oil.

1.9 FIELD CONDITIONS

A. Protection of Masonry: During construction, cover tops of walls, projections, and sills with waterproof sheeting at end of each day's work. Cover partially completed masonry when construction is not in progress.

1. Extend cover a minimum of 24 inches (600 mm) down both sides of walls, and hold cover securely in place.

B. Stain Prevention: Prevent grout, mortar, and soil from staining the face of masonry to be left exposed or painted. Immediately remove grout, mortar, and soil that come in contact with such masonry.

1. Protect base of walls from rain-splashed mud and from mortar splatter by spreading coverings on ground and over wall surface.
2. Protect all adjacent surfaces from mortar droppings.

C. Cold-Weather Requirements: Do not use frozen materials or materials mixed or coated with ice or frost. Do not build on frozen substrates. Remove and replace unit masonry damaged by frost or by freezing conditions. Comply with cold-weather construction requirements contained in TMS 602/ACI 530.1/ASCE 6.

1. Cold-Weather Cleaning: Use liquid cleaning methods only when air temperature is 40 deg F (4 deg C) and higher and will remain so until masonry has dried, but not less than seven days after completing cleaning.

D. Hot-Weather Requirements: Comply with hot-weather construction requirements contained in TMS 602/ACI 530.1/ASCE 6.

PART 2 - PRODUCTS

A. Provide unit masonry that develops indicated net-area compressive strengths at 28 days.

1. Determine net-area compressive strength of masonry from average net-area compressive strengths of masonry units and mortar types (unit-strength method) according to TMS 602/ACI 530.1/ASCE 6.
2. Determine net-area compressive strength of masonry by testing masonry prisms according to ASTM C 1314.

2.2 UNIT MASONRY, GENERAL

A. Masonry Standard: Comply with TMS 602/ACI 530.1/ASCE 6, except as modified by requirements in the Contract Documents.

B. Defective Units: Referenced masonry unit standards may allow a certain percentage of units to contain chips, cracks, or other defects exceeding limits stated. Do not use units where such defects are exposed in the completed Work.

2.3 CONCRETE MASONRY UNITS

A. Shapes: Provide shapes indicated and as follows.

1. Provide special shapes for corners and movement joints and other special conditions.

B. CMUs: ASTM C 90.

1. Unit Compressive Strength: Provide units with minimum average net-area compressive strength of **2150 psi (14.8 MPa)**.
2. Density Classification: **Normal weight**.
3. Size (Width): Manufactured to dimensions 3/8 inch (10 mm) less than nominal dimensions.

2.4 MORTAR AND GROUT MATERIALS

A. Mortar Cement: ASTM C 1329/C 1329M.

B. Aggregate for Mortar: ASTM C 144.
1. For joints less than 1/4 inch (6 mm) thick, use aggregate graded with 100 percent passing the No. 16 (1.18-mm) sieve.

C. Water: Potable.

2.5 REINFORCEMENT

A. Uncoated-Steel Reinforcing Bars: ASTM A 615/A 615M or ASTM A 996/A 996M, Grade 60 (Grade 420).

B. Reinforcing Bar Positioners: Wire units designed to fit into mortar bed joints spanning masonry unit cells and to hold reinforcing bars in center of cells. Units are formed from 0.148-inch (3.77-mm) steel wire, hot-dip galvanized after fabrication. Provide units designed for number of bars indicated.

2.6 TIES AND ANCHORS

A. General: Ties and anchors shall extend at least 1-1/2 inches (38 mm) into veneer but with at least a 5/8-inch (16-mm) cover on outside face.

B. Materials: Provide ties and anchors that are specified for use for exterior stone cladding on CMU walls.

2.7 MISCELLANEOUS MASONRY ACCESSORIES

A. Weep/Cavity Vent Products: Use **one of** the following unless otherwise indicated:
1. Round Plastic Weep/Vent Tubing: Medium-density polyethylene, 3/8-inch (9-mm) OD by 4 inches (100 mm) long.
2. Rectangular Plastic Weep/Vent Tubing: Clear butyrate, 3/8 by 1-1/2 by 3-1/2 inches (9 by 38 by 89 mm) long.
3. Mesh Weep/Vent: Free-draining mesh; made from polyethylene strands, full height and width of head joint and depth 1/8 inch (3 mm) less than depth of outer wythe; in color selected from manufacturer's standard.

2.8 MASONRY CLEANERS

A. Proprietary Acidic Cleaner: Manufacturer's standard-strength cleaner designed for removing mortar/grout stains, efflorescence, and other new construction stains from new masonry without discoloring or damaging masonry surfaces. Use product expressly approved for intended use by cleaner manufacturer and manufacturer of masonry units being cleaned.

2.9 MORTAR AND GROUT MIXES

A. General: Do not use admixtures, including pigments, air-entraining agents, accelerators, retarders, water-repellent agents, antifreeze compounds, or other admixtures unless otherwise indicated.

1. Do not use calcium chloride in mortar or grout.
2. Use **masonry cement or mortar cement** mortar unless otherwise indicated.

B. Preblended, Dry Mortar Mix: Furnish dry mortar ingredients in form of a preblended mix. Measure quantities by weight to ensure accurate proportions, and thoroughly blend ingredients before delivering to Project site.

C. Mortar for Unit Masonry: Comply with ASTM C 270, [**Proportion**] [**Property**] Specification. Provide the following types of mortar for applications stated unless another type is indicated[**or needed to provide required compressive strength of masonry**].

1. For masonry below grade or in contact with earth, use Type M.
2. For exterior, above-grade, load-bearing and nonload-bearing walls; use Type N.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

1. For the record, prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.
2. Verify that foundations are within tolerances specified.
3. Verify that reinforcing dowels are properly placed.
4. Verify that substrates are free of substances that impair mortar bond.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL

A. Build walls and other masonry construction to full thickness shown.

B. Use full-size units without cutting if possible. If cutting is required to provide a continuous pattern or to fit adjoining construction, cut units with motor-driven saws; provide clean, sharp, unchipped edges. Allow units to dry before laying unless wetting of units is specified. Install cut units with cut surfaces and, where possible, cut edges concealed.

3.3 TOLERANCES

A. Dimensions and Locations of Elements:

1. For dimensions in cross section, plan or elevation, do not vary by more than plusor minus 1/4 inch (6 mm).

B. Lines and Levels:

1. For bed joints and top surfaces of walls, do not vary from level by more than 1/4 inch in 10 feet (6 mm in 3 m), or 1/2-inch (12-mm) maximum.
2. For vertical lines and surfaces, do not vary from plumb by more than 1/4 inch in 10 feet (6 mm in 3 m), 3/8 inch in 20 feet (9 mm in 6 m), or 1/2-inch (12-mm) maximum.
3. For lines and surfaces, do not vary from straight by more than 1/4 inch in 10 feet (6 mm in 3 m), 3/8 inch in 20 feet (9 mm in 6 m), or 1/2-inch (12-mm) maximum.

C. Joints:

1. For bed joints, do not vary from thickness indicated by more than plus or minus 1/8 inch (3 mm), with a maximum thickness limited to 1/2 inch (12 mm).
2. For bed joints and head joints of stacked bond, do not vary from a straight line by more than 1/16 inch (1.5 mm) from one masonry unit to the next.

3.4 LAYING MASONRY WALLS

A. Lay out walls in advance for accurate spacing of surface bond patterns with uniform joint thicknesses and for accurate location of openings, movement-type joints, returns, and offsets. Avoid using less-than-half-size units, particularly at corners, jambs, and, where possible, at other locations.

B. Lay concealed masonry with all units in a wythe in running bond or bonded by lapping not less than **4 inches (100 mm)**. Bond and interlock each course of each wythe at corners. Do not use units with less-than-nominal 4-inch (100-mm) horizontal face dimensions at corners or jambs.

C. Stopping and Resuming Work: Stop work by stepping back units in each course from those in course below; do not tooth. When resuming work, clean masonry surfaces that are to receive mortar, remove loose masonry units and mortar.

D. Fill space between cast stone cap, stone cladding, and masonry solidly with mortar unless otherwise indicated.

3.5 MORTAR BEDDING AND JOINTING

A. Lay **CMUs** as follows:

1. Bed face shells in mortar and make head joints of depth equal to bed joints.

2. Fully bed entire units, including areas under cells, at starting course on footings where cells are not grouted.
3. Fully bed units and fill cells with mortar at anchors and ties as needed to fully embed anchors and ties in mortar.

B. Lay solid masonry units with completely filled bed and head joints; butter ends with sufficient mortar to fill head joints and shove into place. Do not deeply furrow bed joints or slush head joints.

C. Cut joints flush for masonry walls to receive plaster or other direct-applied finishes unless otherwise indicated.

3.6 WEEP HOLES

A. Install weep holes in exterior wythes and veneers in head joints of first course of masonry immediately above finish grade.

1. Use **specified weep/cavity vent products**to form weep holes.
2. Space weep holes 24 inches (600 mm) o.c. unless otherwise indicated.
3. Trim wicking material flush with outside face of wall after mortar has set.

3.7 REPAIRING, POINTING, AND CLEANING

A. Remove and replace masonry units that are loose, chipped, broken, stained, or otherwise damaged or that do not match adjoining units. Install new units to match adjoining units; install in fresh mortar, pointed to eliminate evidence of replacement.

B. Pointing: During the tooling of joints, enlarge voids and holes, except weep holes, and completely fill with mortar. Point up joints, including corners, openings, and adjacent construction, to provide a neat, uniform appearance.

C. In-Progress Cleaning: Clean unit masonry as work progresses by dry brushing to remove mortar fins and smears before tooling joints.

D. Final Cleaning: After mortar is thoroughly set and cured, clean exposed masonry as follows:

1. Remove large mortar particles by hand with wooden paddles and nonmetallic scrape hoes or chisels.
2. Test cleaning methods on sample wall panel; leave one-half of panel uncleaned for comparison purposes. Obtain Architect's approval of sample cleaning before proceeding with cleaning of masonry.
3. Protect adjacent stone and nonmasonry surfaces from contact with cleaner by covering them with liquid strippable masking agent or polyethylene film and waterproof masking tape.
4. Clean stone trim to comply with stone supplier's written instructions.

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04 20 00 UNIT MASONRY

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012
DRAWN BY: EH CHECKED BY: BA
DATE: 08/29/2025
SHEET NO.: L10.1

100% CONSTRUCTION DOCUMENTS - NOT FOR CONSTRUCTION

3.8 MASONRY WASTE DISPOSAL

A. Salvageable Materials: Unless otherwise indicated, excess masonry materials are Contractor's property. At completion of unit masonry work, remove from Project site.

B. Waste Disposal as Fill Material: Dispose of clean masonry waste, including excess or soil-contaminated sand, waste mortar, and broken masonry units, by crushing and mixing with fill material as fill is placed.

1. Crush masonry waste to less than 4 inches (100 mm) in each dimension.
2. Mix masonry waste with at least two parts of specified fill material for each part of masonry waste. Fill material is specified in Section 312000 "Earth Moving."
3. Do not dispose of masonry waste as fill within 18 inches (450 mm) of finished grade.

C. Masonry Waste Recycling: Return broken CMUs not used as fill to manufacturer for recycling.

D. Excess Masonry Waste: Remove excess clean masonry waste that cannot be used as fill, as described above or recycled, and other masonry waste, and legally dispose of off Owner's property.

END OF SECTION 04 20 00

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04 20 00 UNIT MASONRY-CONT

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012
DRAWN BY: EH
CHECKED BY: BA
DATE: 08/29/2025
SHEET NO.: L10.2

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SECTION 04 42 00

EXTERIOR STONE CLADDING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
1. Stone panels mechanically anchored (field installed) on a metal-grid system.
2. Stone panels set in architectural precast concrete.
3. Stone units with carving or inscriptions.

B. Related Requirements:

1. Section 031000 "Concrete Forming and Accessories" for installing **inserts and weld plates** in concrete for anchoring stone cladding.
2. Section 042000 "Unit Masonry" **for installing inserts in unit masonry for anchoring stone cladding and for stone trim in unit masonry walls**.
3. Section 054000 "Cold-Formed Metal Framing" for steel stud frames supporting stone cladding.

1.2 ALLOWANCES

A. Contractor shall include all testing and mock up requirements in their bid. No additional change orders shall be granted for mock up and testing.

1.3 DEFINITIONS

A. Definitions contained in ASTM C119 apply to this Section.

B. IBC: International Building Code.

C. Stone Cladding Assembly: An exterior wall covering system consisting of stone panels together with anchors, **mortar, adhesives,** fasteners, and sealants used to secure the stone to the building structure and to produce a weather-resistant covering.

1.4 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at **Project Site**.

1.5 ACTION SUBMITTALS

A. Product Data: For each variety of stone, stone accessory, and manufactured product.

B. Shop Drawings: Show fabrication and installation details for stone cladding assembly, including dimensions and profiles of stone units.

1. Show locations and details of joints both within stone cladding assembly and between stone cladding assembly and other construction.
2. Include details of mortar joints, sealant joints, and mortar joints pointed with sealant.
3. Show locations and details of anchors and backup structure.
4. Show direction of veining, grain, or other directional pattern.
5. Include large-scale shaded elevations and details of decorative surfaces and inscriptions.

C. Samples for Initial Selection: For joint materials involving color selection.

D. Stone Samples for Verification: Sets for each variety, color, and finish of stone required; not less than 12 inches square.

1. Sets consist of at least **three** Samples, exhibiting extremes of the full range of color and other visual characteristics expected and will establish the standard by which stone will be judged.

E. Colored Pointing Mortar Samples for Verification: For each color required. Make Samples using same sand and mortar ingredients to be used on Project.

F. Sealant Samples for Verification: For each type and color of joint sealant required.

1.6 INFORMATIONAL SUBMITTALS

A. Qualification Data: For **Installer, fabricator, and testing agency**.

B. Welding certificates.

C. Material Test Reports:

1. Stone Test Reports: For **each** stone variety proposed for use on Project, by a qualified testing agency, indicating compliance with required physical properties, other than abrasion resistance, according to referenced ASTM standards. Base reports on testing done within previous **five** years.
2. For metal components, by a qualified testing agency, indicating chemical and physical properties of metal.
3. Sealant Compatibility and Adhesion Test Report: From sealant manufacturer complying with requirements in Section 079200 "Joint Sealants" and indicating that sealants will not stain or damage stone. Include interpretation of test results and recommendations for primers and substrate preparation needed for adhesion.

D. Preconstruction test reports.

E. Source quality-control reports.

1.7 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1.8 QUALITY ASSURANCE

A. Fabricator Qualifications: Shop that employs skilled workers who custom fabricate stone cladding assemblies similar to that required for this Project and whose products have a record of successful in-service performance.

B. Installer Qualifications: A firm or individual experienced in installing stone cladding assemblies similar in material, design, and extent to that indicated for this Project, whose work has a record of successful in-service performance within the past 5 years.

C. Testing Agency Qualifications: Qualified according to ASTM E329 for testing indicated.

D. Welding Qualifications: Qualify procedures and personnel according to **[AWS D1.1/D1.1M, "Structural Welding Code - Steel] [AWS D1.2/D1.2M, "Structural Welding Code - Aluminum] [AWS D1.3/D1.3M, "Structural Welding Code - Sheet Steel] [and] [AWS D1.6/D1.6M, "Structural Welding Code - Stainless Steel]**."

E. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for materials and execution.

1. Build mockups of typical exterior wall area **as shown on Drawings not less than 72 inches long by 18 inches high.**

a. Include typical components, attachments to building structure, and methods of installation.
b. Include typical carved surface.
c. Include sealant-filled joint complying with requirements in Section 079200 "Joint Sealants."
d. Include an area that has been damaged and repaired.
e. Include pointing styles and mortar color options no less than 3 variations.

2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.

1.9 DELIVERY, STORAGE, AND HANDLING

A. Store and handle stone and related materials to prevent deterioration or damage due to moisture, temperature changes, contaminants, corrosion, breaking, chipping, and other causes.

1. Lift stone with wide-belt slings; do not use wire rope or ropes that might cause staining. Move stone, if required, using dollies with cushioned wood supports.
2. Store stone on wood skids or pallets with nonstaining, waterproof covers. Arrange to distribute weight evenly and to prevent damage to stone. Ventilate under covers to prevent condensation.

B. Mark stone units, on surface that will be concealed after installation, with designations used on Shop Drawings to identify individual stone units. Orient markings on vertical panels so that they are right side up when units are installed.

C. Deliver sealants to Project site in original unopened containers labeled with manufacturer's name, product name and designation, color, expiration period, pot life, curing time, and mixing instructions for multicomponent materials.

D. Store cementitious materials on elevated platforms, under cover, and in a dry location. Do not use cementitious materials that have become damp.

E. Store aggregates in locations where grading and other required characteristics can be maintained and where contamination can be avoided.

1.10 FIELD CONDITIONS

A. Protect stone cladding during erection by doing the following:

1. Cover tops of stone cladding installation with nonstaining, waterproof sheeting at end of each day's work. Cover partially completed structures when work is not in progress. Extend cover a minimum of 24 inches (600 mm) down both sides and hold securely in place.
2. Prevent staining of stone from mortar, grout, sealants, and other sources. Immediately remove such materials without damaging stone.
3. Protect base of walls from rain-splashed mud and mortar splatter by coverings spread on ground and over wall surface.
4. Protect sills, ledges, and projections from mortar and sealant droppings.

B. Cold-Weather Requirements: Do not use frozen materials or materials mixed or coated with ice or frost. Remove and replace stone cladding damaged by frost or freezing conditions. Comply with cold-weather construction and protection requirements for masonry contained in TMS 602/ACI 530.1/ASCE 6.

C. Hot-Weather Requirements: Comply with hot-weather construction and protection requirements for masonry contained in TMS 602/ACI 530.1/ASCE 6.

D. Environmental Limitations for Sealants: Do not install sealants when ambient and substrate temperatures are outside limits permitted by sealant manufacturer or below 40 deg F (5 deg C) or when joint substrates are wet.

1.11 COORDINATION

A. Coordinate installation of inserts that are to be embedded in concrete or masonry, flashing reglets, and similar items to be used by stone cladding Installer for anchoring, supporting, and flashing of stone cladding assembly. Furnish setting drawings, templates, and directions for installing such items and deliver to Project site in time for installation.

B. Time delivery and installation of stone cladding to avoid extended on-site storage and to coordinate with work adjacent to stone cladding.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Source Limitations for Stone: Obtain each variety of stone, from single quarry with resources to provide materials of consistent quality in appearance and physical properties.

1. For stone types that include same list of varieties and sources, provide same variety from same source for each.

B. Source Limitations for Mortar Materials: Obtain mortar ingredients of uniform quality for each cementitious component from single manufacturer and each aggregate from single source or producer.

2.2 PERFORMANCE REQUIREMENTS

A. General: Design stone anchors and anchoring systems according to ASTM C1242.

B. Safety Factors for Stone: Design stone cladding assembly to withstand loads indicated without exceeding stone's allowable working stress determined by dividing stone's average ultimate strength, as established by testing, by the following safety factors:

1. Safety Factor for Granite: **3**
2. Safety Factor for Concentrated Stresses: **4 for granite**.

C. Provision for Deflection of Building Structure:

1. Deflection Due to Weight of Stone Cladding Assembly: Allow for **1/4-inch (6-mm)** vertical deflection in 20-foot (6-m) span of structural members supporting stone cladding assembly.

D. Corrosion and Staining Control: Prevent galvanic and other forms of corrosion as well as staining by isolating metals and other materials from direct contact with incompatible materials. Materials do not stain exposed surfaces of stone and joint materials.

2.3 GRANITE GABION STONE

A. Material Standard: Comply with ASTM C615/C615M.

B. Description: Per plans

C. Finish: Per Plans

D. Match Landscape Architect's plans and details for color, finish, and other stone characteristics relating to aesthetic effects.

2.4 ANCHORS AND FASTENERS

A. Fabricate anchors from stainless steel, ASTM A240/A240M or ASTM A666, **Type 316**; temper as required to support loads imposed without exceeding allowable design stresses. Fabricate dowels and pins for anchors from stainless steel, ASTM A276, **Type 316**.

B. Cast-in-Place Concrete Inserts: Either threaded or wedge type unless otherwise indicated; galvanized ferrous castings, either ASTM A47/A47M malleable iron or ASTM A27/A27M cast steel, with capability to sustain, without failure, a load equal to 4 times the loads imposed as determined by testing per ASTM E488/E488M, conducted by a qualified independent testing agency. Provide bolts, washers, and shims as needed, all hot-dip galvanized per ASTM F2329.

C. Threaded Fasteners: Heavy hexagon structural bolts, heavy hexagon nuts, and hardened washers.

D. Weld Plates for Installation in Concrete: Comply with Section 055000 "Metal Fabrications."

2.5 MORTAR MATERIALS

A. Portland Cement: ASTM C150/C150M, Type I or Type II, except Type III may be used for cold-weather construction, natural color or white as required to produce mortar color indicated.

1. Low-Alkali Cement: Portland cement for use with limestone contains no more than 0.60 percent total alkali when tested according to ASTM C114.

B. Hydrated Lime: ASTM C207.

C. Mortar Pigments: Natural and synthetic iron oxides and chromium oxides, compounded for use in mortar mixes and complying with ASTM C979/C979M. Pigments have a record of satisfactory performance in mortar.

D. Portland Cement-Lime Mix: Packaged blend of portland cement and hydrated lime.

E. Colored Portland Cement-Lime Mix: Packaged blend of portland cement, hydrated lime, and mortar pigments. Mix produces color indicated or, if not indicated, as selected from manufacturer's standard colors. Pigments do not exceed 10 percent of portland cement by weight.

F. Aggregate: ASTM C144; except for **joints narrower than 1/4 inch and pointing mortar**, 100 percent pass No. 16 sieve.

1. White Aggregates: Natural white sand or ground white stone.
2. Colored Aggregates: Natural-colored sand or ground marble, granite, or other durable stone; of color necessary to produce required mortar color.

G. Water: Potable.

2.6 STONE ACCESSORIES

A. Setting Shims: Strips of **resilient plastic or vulcanized neoprene, Type A Shore durometer hardness of 50 to 70**, nonstaining to stone, of thickness needed to prevent point loading of stone on anchors and of depths to suit anchors without intruding into required depths of pointing materials.

B. Setting Buttons: Resilient plastic buttons, nonstaining to stone, sized to suit joint thicknesses and bed depths of stone units without intruding into required depths of pointing materials.

C. Concealed Sheet Metal Flashing: Fabricated from **zinc-tin, alloy-coated** stainless steel in thicknesses indicated, but not less than 0.0156 inch (0.4 mm) thick, and complying with Section 076200 "Sheet Metal Flashing and Trim."

D. Cementitious Dampproofing **for Limestone**: Cementitious formulation recommended by ILI and nonstaining to stone; compatible with joint sealants and noncorrosive to anchors and attachments.

E. Weep and Vent Tubes: **Medium-density polyethylene tubing, 1/4-inch OD** of length required to extend from exterior face of stone to cavity behind.

2.7 FABRICATION OF STONE

A. General: Fabricate stone units in sizes and shapes required to comply with requirements indicated.

1. For granite, comply with recommendations in NBGQA's "Specifications for Architectural Granite."

2. Produce moldings and molded edges with machines that use abrasive shaping wheels made to reverse contour of molding shape.

B. Clean backs of stone to remove rust stains, iron particles, and stone dust.

C. Inspect finished stone units at fabrication plant for compliance with requirements for appearance, material, and fabrication. Replace defective units.

1. Grade and mark stone for overall uniform appearance when assembled in place. Natural variations in appearance are acceptable if installed stone units match range of colors and other appearance characteristics represented in approved samples and mockups.

2.8 MORTAR MIXES

A. General: Comply with referenced standards and with manufacturers' written instructions for mix proportions, mixing equipment, mixer speeds, mixing containers, mixing time, and other procedures needed to produce mortar of uniform quality and with optimum performance characteristics.

1. Do not use admixtures, including pigments, air-entraining agents, accelerators, retarders, water-repellent agents, antifreeze compounds, or other admixtures unless otherwise indicated. Do not use calcium chloride.
2. Combine and thoroughly mix cementitious materials, water, and aggregates in a mechanical batch mixer unless otherwise indicated. Discard mortar when it has reached initial set.

B. Portland Cement-Lime Setting Mortar: Comply with ASTM C270, Proportion Specification, **Type S.**

1. Set granite with Type S mortar.

C. Pointing Mortar: Comply with ASTM C270, Proportion Specification, **Type S**. Provide pointing mortar mixed to match Architect's sample and complying with the following:

1. Pigmented Pointing Mortar: Select and proportion pigments with other ingredients to produce color required. Do not exceed pigment-to-cement ratio of manufacturer recommendations.
2. Point granite with **Type S** mortar.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine surfaces to receive stone cladding and conditions under which stone cladding will be installed, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of stone cladding.

B. Prepare written report, endorsed by Installer, listing conditions detrimental to performance of stone cladding.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION OF STONE CLADDING, GENERAL

A. Before setting stone, clean surfaces that are dirty or stained by removing soil, stains, and foreign materials. Clean stone by thoroughly scrubbing with fiber brushes and then drenching with clear water. Use only mild cleaning compounds that contain no caustic or harsh materials or abrasives.

B. Execute stone cladding installation by skilled mechanics and employ skilled stone fitters at Project site to do necessary field cutting as stone is set.

C. Set stone to comply with requirements indicated. Install anchors, supports, fasteners, and other attachments indicated or necessary to secure stone cladding in place. Shim and adjust anchors, supports, and accessories to set stone accurately in locations indicated, with uniform joints of widths indicated, and with edges and faces aligned according to established relationships and indicated tolerances.

D. Provide expansion, control, and pressure-relieving joints of widths and at locations indicated.
1. Keep expansion joints free of mortar and other rigid materials.

E. Keep cavities open where unfilled space is indicated between back of stone units and backup wall; do not fill cavities with mortar or grout.

1. Place weep holes in joints where moisture may accumulate, including at base of cavity walls and above shelf angles and flashing. Locate weep holes at intervals not exceeding 24 inches. Use **weep and vent tubes**.
2. Place vents in cavity walls at tops of cavities, below shelf angles and flashing, and at intervals not exceeding 20 feet vertically. Locate vents in joints at intervals not exceeding 60 inches horizontally. Use **weep and vent tubes**.

3.3 INSTALLATION OF MECHANICALLY ANCHORED STONE CLADDING

A. Set stone cladding with mechanical anchors without mortar unless otherwise indicated.

B. Attach anchors securely to stone and to backup surfaces. Comply with recommendations in ASTM C1242.

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04 42 00 EXTERIOR STONE CLADDING

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012
DRAWN BY: EH
CHECKED BY: BA
DATE: 08/29/2025
SHEET NO.: L10.3

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C. Provide compressible filler in ends of dowel holes and bottoms of kerfs to prevent end bearing of dowels and anchor tabs on stone. Fill remainder of anchor holes and kerfs with sealant indicated for filling kerfs.

D. Set stone supported on clips or continuous angles on resilient setting shims. Use material of thickness required to maintain uniform joint widths and to prevent point loading of stone on anchors. Hold shims back from face of stone a distance at least equal to width of joint.

3.4 INSTALLATION OF STONE CLADDING WITH MORTAR

A. Set stone cladding with mortar and mechanical anchors **unless otherwise indicated**.

B. Set stone in full bed of mortar with head joints filled unless otherwise indicated.

1. Use setting buttons of adequate size, in sufficient quantity, and of thickness required to maintain uniform joint width and to prevent mortar from extruding. Hold buttons back from face of stone a distance at least equal to width of joint, but not less than depth of pointing materials.
2. Do not set heavy units or projecting courses until mortar in courses below has hardened enough to resist being squeezed out of joint.
3. Support and brace projecting stones until wall above is in place and mortar has set.
4. Provide compressible filler in ends of dowel holes and bottoms of kerfs to prevent end bearing of dowels and anchor tabs on stone. Fill remainder of anchor holes and kerfs with mortar.

C. Rake out joints for pointing with mortar to depths of not less than 1/2 inch (12 mm). Rake joints to uniform depths with square bottoms and clean sides.

D. Prepare stone-joint surfaces for pointing with mortar by removing dust and mortar particles. Where setting mortar was removed to depths greater than surrounding areas, apply first layer of pointing mortar in layers not more than 3/8 inch (10 mm) until a uniform depth is formed.

E. Point stone joints by placing pointing mortar in layers not more than 3/8 inch (10 mm). Compact each layer thoroughly and allow to become thumbprint hard before applying next layer.

F. Tool joints with a round jointer having a diameter 1/8 inch (3 mm) larger than width of joint, when pointing mortar is thumbprint hard.

3.5 INSTALLATION TOLERANCES

A. Variation from Plumb: For vertical lines and surfaces of walls, do not exceed 1/4 inch in 10 feet , 3/8 inch in 20 feet or 1/2 inch in 40 feet or more. For external corners, corners and jambs within 20 feet of an entrance, expansion joints, and other conspicuous lines, do not exceed 1/8 inch in 10 feet, 1/4 inch in 20 feet , or 3/8 inch in 40 feet or more.

B. Variation from Level: For lintels, sills, water tables, parapets, horizontal bands, horizontal grooves, and other conspicuous lines, do not exceed 1/8 inch in 10 feet,1/4 inch in 20 feet, or 3/8 inch maximum.

C. Variation in Cross-Sectional Dimensions: For thickness of walls from dimensions indicated, do not exceed plus or minus 1/4 inch.

D. Variation in Joint Width: Do not vary from average joint width more than plus or minus 1/8 inch from plan detail dimensions.

3.6 ADJUSTING AND CLEANING

A. Remove and replace broken, chipped, stained, or otherwise damaged stone, defective joints, and stone cladding that does not match approved samples **and mockups**. Damaged stone may be repaired if Architect approves methods and results.

B. Replace damaged or defective work in a manner that results in stone cladding's matching approved samples **and mockups**, complying with other requirements, and showing no evidence of replacement.

C. In-Progress Cleaning: Clean stone cladding as work progresses. Remove mortar fins and smears before tooling joints. Remove excess sealant and smears as sealant is installed.

D. Final Cleaning: Clean stone cladding no fewer than six days after completion of pointing and sealing, using clean water and stiff-bristle fiber brushes. Do not use wire brushes, acid-type cleaning agents, cleaning agents containing caustic compounds or abrasives, or other materials or methods that could damage stone.

END OF SECTION 044200

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04 42 00 EXTERIOR STONE CLADDING-CONT

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012
DRAWN BY: EH
CHECKED BY: BA
DATE: 08/29/2025
SHEET NO.: L10.4

100% CONSTRUCTION DOCUMENTS - NOT FOR CONSTRUCTION

SECTION 04 72 00

CAST STONE MASONRY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Cast-stone trim.
   a. Wall caps.

B. Related Sections:
1. Section 042000 "Unit Masonry" for installing cast-stone units in unit masonry.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. For cast-stone units, include construction details, material descriptions, dimensions of individual components and profiles, and finishes.

B. Shop Drawings: Show fabrication and installation details for cast-stone units. Include dimensions, details of reinforcement and anchorages if any, and indication of finished faces.

1. Include elevations showing layout of units and locations of joints and anchors.

C. Samples for Verification:

1. For each color and texture of cast stone required, 10 inches (250 mm) square in size.
2. For colored mortar, make Samples using same sand and mortar ingredients to be used on Project.

1.4 INFORMATIONAL SUBMITTALS

A. Qualification Data:

1. Include copies of material test reports for completed projects, indicating compliance of cast stone with ASTM C 1364.

B. Material Test Reports: For each mix required to produce cast stone, based on testing according to ASTM C 1364**, including test for resistance to freezing and thawing**.

1. Provide test reports based on testing within previous two years.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications: A qualified manufacturer of cast-stone units similar to those indicated for this Project, that has sufficient production capacity to manufacture required units, and is a plant certified by **the Cast Stone Institute**, **the Architectural Precast Association or the Precast/Prestressed Concrete Institute for Group A, Category AT**.

B. Testing Agency Qualifications: Qualified according to ASTM E 329 for testing indicated.

C. Mockups: Furnish cast stone for installation in mockups specified in Section 04 20 00 "Unit Masonry."

D. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects **and set quality standards for materials and execution**.

1. Build mockup of typical wall area as shown on Drawings.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Coordinate delivery of cast stone **with unit masonry wor**] to avoid delaying the Work **and to minimize the need for on-site storage**.

B. Pack, handle, and ship cast-stone units in suitable packs or pallets.

1. Lift with wide-belt slings; do not use wire rope or ropes that might cause staining. Move cast-stone units if required, using dollies with wood supports.
2. Store cast-stone units on wood skids or pallets with nonstaining, waterproof covers, securely tied. Arrange to distribute weight evenly and to prevent damage to units. Ventilate under covers to prevent condensation.

C. Store cementitious materials on elevated platforms, under cover, and in a dry location. Do not use cementitious materials that have become damp.

D. Store mortar aggregates where grading and other required characteristics can be maintained and contamination can be avoided.

1.7 PROJECT CONDITIONS

A. Cold-Weather Requirements: Do not use frozen materials or materials mixed or coated with ice or frost. Do not build on frozen substrates. Comply with cold-weather construction requirements in TMS 602/ACI 530.1/ASCE 6.

1. Cold-Weather Cleaning: Use liquid cleaning methods only when air temperature is 40 deg F (4 deg C) and above and will remain so until cast stone has dried, but no fewer than seven days after completing cleaning.

B. Hot-Weather Requirements: Comply with hot-weather construction requirements in TMS 602/ACI 530.1/ASCE 6.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Source Limitations for Cast Stone: Obtain cast-stone units from single source from single manufacturer.

B. Source Limitations for Mortar Materials: Obtain mortar ingredients of a uniform quality, including color, from one manufacturer for each cementitious component and from one source or producer for each aggregate.

2.2 CAST-STONE MATERIALS

A. General: Comply with ASTM C 1364.

B. Portland Cement: ASTM C 150/C 150M, Type I or Type III, containing not more than 0.60 percent total alkali when tested according to ASTM C 114. Provide natural color or white cement as required to produce cast-stone color indicated.

C. Fine Aggregates: Natural sand or crushed stone complying with ASTM C 33/C 33M, gradation and colors as needed to produce required cast-stone textures and colors.

D. Color Pigment: ASTM C 979/C 979M, synthetic mineral-oxide pigments or colored water-reducing admixtures; color stable, nonfading, and resistant to lime and other alkalis.

E. Embedded Anchors and Other Inserts: Fabricated from **hot-dip galvanized to comply with ASTM A 123/A 123M**.

2.3 CAST-STONE UNITS

A. Cast-Stone Units: Comply with ASTM C 1364.
1. Units shall be resistant to freezing and thawing as determined by laboratory testing according to ASTM C 666/C 666M, Procedure A, as modified by ASTM C 1364.

B. Fabricate units with sharp arris and accurately reproduced details, with indicated texture on all exposed surfaces unless otherwise indicated.

1. Slope exposed horizontal surfaces 1:12 to drain unless otherwise indicated.

C. Fabrication Tolerances:

1. Variation in Cross Section: Do not vary from indicated dimensions by more than 1/8 inch (3 mm).
2. Variation in Length: Do not vary from indicated dimensions by more than 1/360 of the length of unit or 1/8 inch (3 mm), whichever is greater, but in no case by more than 1/4 inch (6 mm).

3. Warp, Bow, and Twist: Not to exceed 1/360 of the length of unit or 1/8 inch (3 mm), whichever is greater.
4. Location of Grooves, False Joints, Holes, Anchorages, and Similar Features: Do not vary from indicated position by more than 1/8 inch (3 mm) on formed surfaces of units and 3/8 inch (10 mm) on unformed surfaces.

D. Acid etch units after curing to remove cement film from surfaces to be exposed to view.

E. Colors and Textures: Light tan or gray color **as selected by Architect from manufacturer's full range**. Sand rubbed texture **as selected by Architect from manufacturer's full range.**

2.4 MORTAR MATERIALS

A. Provide mortar materials that comply with Section 04 20 00 "Unit Masonry."

B. Masonry Cement: ASTM C 91/C 91M.

C. Mortar Pigments: Natural and synthetic iron oxides and chromium oxides, compounded for use in mortar mixes and complying with ASTM C 979/C 979M. Use only pigments with a record of satisfactory performance in masonry mortar.

D. Aggregate for Mortar: ASTM C 144.

1. For mortar that is exposed to view, use washed aggregate consisting of natural sand or crushed stone.
2. For joints less than 1/4 inch (6 mm) thick, use aggregate graded with 100 percent passing the No. 16 (1.18-mm) sieve.
3. Colored Aggregates: Natural sand or crushed stone of color necessary to produce required mortar color.

E. Water: Potable.

2.5 ACCESSORIES

A. Anchors: Type and size indicated, fabricated from **hot-dip galvanized to comply with ASTM A 123/A 123M**.

B. Proprietary Acidic Cleaner: Manufacturer's standard-strength cleaner designed for removing mortar/grout stains, efflorescence, and other new construction stains from new masonry without discoloring or damaging masonry surfaces. Use product expressly approved for intended use by cast-stone manufacturer and expressly approved by cleaner manufacturer for use on cast stone and adjacent masonry materials.

2.6 MORTAR MIXES

A. Comply with requirements in Section 04 20 00 "Unit Masonry" for mortar mixes.

B. Do not use admixtures including pigments, air-entraining agents, accelerators, retarders, water-repellent agents, antifreeze compounds, or other admixtures unless otherwise indicated.

1. Do not use calcium chloride in mortar or grout.
2. Use **portland cement-lime, masonry cement or mortar cement** mortar unless otherwise indicated.

C. Comply with ASTM C 270, Proportion Specification.

1. For setting mortar, use **Type N**.
2. For pointing mortar, use **Type N**.

D. Pigmented Mortar: Use colored cement product**.**
1. Pigments shall not exceed 5 percent of **masonry cement or mortar cement** by weight.
2. Application: Use pigmented mortar for exposed mortar joints.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 SETTING CAST STONE IN MORTAR

A. Install cast-stone units to comply with requirements in Section 04 20 00 "Unit Masonry."

B. Set cast stone as indicated on Drawings. Set units accurately in locations indicated, with edges and faces aligned according to established relationships and indicated tolerances.

1. Install anchors, supports, fasteners, and other attachments indicated or necessary to secure units in place.
2. Coordinate installation of cast stone with installation of flashing specified in other Sections.

C. Wet joint surfaces thoroughly before applying mortar or setting in mortar.

D. Set units in full bed of mortar with full head joints unless otherwise indicated.

1. Set units with joints **1/4 to 3/8 inch (6 to 10 mm)** wide unless otherwise indicated.
2. Build anchors and ties into mortar joints as units are set.
3. Fill dowel holes and anchor slots with mortar.
4. Fill collar joints solid as units are set.

E. Rake out joints for pointing with mortar to depths of not less than 3/4 inch (19 mm). Rake joints to uniform depths with square bottoms and clean sides. Scrub faces of units to remove excess mortar as joints are raked.

F. Point mortar joints by placing and compacting mortar in layers not greater than 3/8 inch (10 mm). Compact each layer thoroughly and allow it to become thumbprint hard before applying next layer.

G. Tool exposed joints slightly concave when thumbprint hard. Use a smooth plastic jointer larger than joint thickness.

3.3 INSTALLATION TOLERANCES

A. Variation from Plumb: Do not exceed 1/8 inch in 10 feet (3 mm in 3 m) maximum.

B. Variation from Level: Do not exceed 1/8 inch in 10 feet maximum.

C. Variation in Joint Width: Do not vary joint thickness more than 1/8 inch in 36 inches (3 mm in 900 mm) or one-fourth of nominal joint width, whichever is less.

D. Variation in Plane between Adjacent Surfaces (Lipping): Do not vary from flush alignment with adjacent units or adjacent surfaces indicated to be flush with units by more than 1/16 inch (1.5 mm), except where variation is due to warpage of units within tolerances specified.

3.4 ADJUSTING AND CLEANING

A. Remove and replace stained and otherwise damaged units and units not matching approved Samples. Cast stone may be repaired if methods and results are approved by Architect.

B. Replace units in a manner that results in cast stone matching approved Samples, complying with other requirements, and showing no evidence of replacement.

C. In-Progress Cleaning: Clean cast stone as work progresses.

1. Remove mortar fins and smears before tooling joints.
2. Remove excess sealant immediately, including spills, smears, and spatter.

D. Final Cleaning: After mortar is thoroughly set and cured, clean exposed cast stone as follows:

1. Remove large mortar particles by hand with wooden paddles and nonmetallic scrape hoes or chisels.
2. Test cleaning methods on sample; leave one sample uncleaned for comparison purposes. Obtain Architect's approval of sample cleaning before proceeding with cleaning of cast stone.
3. Protect adjacent surfaces from contact with cleaner by covering them with liquid strippable masking agent or polyethylene film and waterproof masking tape.
4. Wet surfaces with water before applying cleaners; remove cleaners promptly by rinsing thoroughly with clear water.
5. Clean cast stone by bucket-and-brush hand-cleaning method described in BIA Technical Notes 20.
6. Clean cast stone with proprietary acidic cleaner applied according to manufacturer's written instructions.

END OF SECTION 04 72 00

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04 72 00 CAST STONE MASONRY

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REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012
DRAWN BY: EH CHECKED BY: BA
DATE: 08/29/2025
SHEET NO.: L10.5

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SECTION 10 14 16

PLAQUES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes plaques.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: For plaques.

1. Include fabrication and installation details and attachments to other work.
2. Show plaque mounting heights, locations of supplementary supports to be provided by others, and accessories.
3. Show message list, typestyles, graphic elements**, including raised characters and** layout for each plaque at least **half size**.

C. Samples for Initial Selection: For each type of plaque, exposed component, and exposed finish.

D. Samples for Verification: For each type of plaque showing all components and with the required finish(es), in manufacturer's standard size unless otherwise indicated and as follows:

1. Plaques: **Full-size Sample** to match Architect's sample.

E. Plaque Schedule: Use same designations specified or indicated on Drawings or in the plaque schedule.

1.4 INFORMATIONAL SUBMITTALS

A. Qualification Data: For **manufacturer**.

1.5 CLOSEOUT SUBMITTALS

A. Maintenance Data: For plaques to include in maintenance manuals.

1.6 WARRANTY

A. Special Warranty: Manufacturer agrees to repair or replace components of plaques that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:

a. Deterioration of finishes beyond normal weathering.
b. Deterioration of embedded graphic image.

2. Warranty Period: **Five** years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PLAQUES

A. Cast Plaque: Plaque with background texture, border, and characters having uniform faces, sharp corners, and precisely formed lines and profiles; and as follows:

1. To match Architect's sample.
2. Plaque Material: **bronze**.
3. Plaque Thickness: To match Architect's sample.
4. Finishes: To match Architect's sample.
5. Background Texture: **Match Architect's sample**
6. Text and Typeface: **typeface matching Architect's sample.**

2.2 MATERIALS

A. Bronze Castings: ASTM B 584, **alloy recommended by manufacturer and finisher for finish indicated**.

2.3 ACCESSORIES

A. Fasteners and Anchors: Manufacturer's standard as required for secure anchorage of plaques, noncorrosive and compatible with each material joined, and complying with the following:

1. Use concealed fasteners and anchors unless indicated to be exposed.
2. Plaque Mounting Fasteners:

a. Concealed Studs: Concealed (blind), threaded studs welded or brazed to back of plaque, screwed into back of plaque, or screwed into tapped lugs cast integrally into back of plaque, unless otherwise indicated.

B. Adhesive: As recommended by plaque manufacturer.

2.4 FABRICATION

A. General: Provide manufacturer's standard plaques according to requirements indicated.

1. Preassemble plaques in the shop to greatest extent possible. Disassemble plaques only as necessary for shipping and handling limitations. Clearly mark units for reassembly and installation; apply markings in locations concealed from view after final assembly.
2. Castings: Fabricate castings free of warp, cracks, blowholes, pits, scale, sand holes, and other defects that impair appearance or strength. Grind, wire brush, sandblast, and buff castings to remove seams, gate marks, casting flash, and other casting marks before finishing.

2.5 GENERAL FINISH REQUIREMENTS

A. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

B. Appearance of Finished Work: Match Architect's Sample. Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of plaque work.

B. Verify that plaque-support surfaces are within tolerances to accommodate plaques without gaps or irregularities between backs of plaques and support surfaces unless otherwise indicated.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. General: Install plaques using mounting methods indicated and according to manufacturer's written instructions.

1. Install plaques level, plumb, true to line, and at locations and heights indicated, with plaque surfaces free of distortion and other defects in appearance.
2. Install plaques so they do not protrude or obstruct according to the accessibility standard.
3. Before installation, verify that plaque surfaces are clean and free of materials or debris that would impair installation.
4. Corrosion Protection: Coat concealed surfaces of exterior aluminum in contact with grout, concrete, masonry, wood, or dissimilar metals, with a heavy coat of bituminous paint.

B. Mounting Methods:

1. Concealed Studs: Using a template, drill holes in substrate aligning with studs on back of plaque. Remove loose debris from hole and substrate surface.

a. Masonry Substrates: Fill holes with adhesive. Leave recess space in hole for displaced adhesive. Place plaque in position and push until flush to surface, embedding studs in holes. Temporarily support plaque in position until adhesive fully sets.
b. Thin or Hollow Surfaces: Place plaque in position and flush to surface, install washers and nuts on studs projecting through opposite side of surface, and tighten.

2. Adhesive: Clean bond-breaking materials from substrate surface and remove loose debris. Apply linear beads or spots of adhesive symmetrically to back of plaque and of suitable quantity to support weight of plaque after cure without slippage. Keep adhesive away from edges to prevent adhesive extrusion as plaque is applied and to prevent visibility of cured adhesive at plaque edges. Place plaque in position, and push to engage adhesive. Temporarily support plaque in position until adhesive fully sets.

3.3 ADJUSTING AND CLEANING

A. Remove and replace damaged or deformed plaques and plaques that do not comply with specified requirements. Replace plaques with damaged or deteriorated finishes or components that cannot be successfully repaired by finish touchup or similar minor repair procedures.

B. Remove temporary protective coverings and strippable films as plaques are installed.

C. On completion of installation, clean exposed surfaces of plaques according to manufacturer's written instructions, and touch up minor nicks and abrasions in finish. Maintain plaques in a clean condition during construction and protect from damage until acceptance by Owner.

END OF SECTION 101416

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10 14 16 PLAQUES

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JPD PROJECT NUMBER: 24012
DRAWN BY: EH
CHECKED BY: BA
DATE: 08/29/2025
SHEET NO.: L10.6

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SECTION 12 93 00

SITE FURNISHINGS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Fixed exterior benches, backed.
H. Fixed exterior trash receptacles
J. Decorative planters

1.02 RELATED REQUIREMENTS

A. Section 32 13 13 - Portland Cement Concrete Paving: Mounting surface for furnishings.
B. Section 03 30 00 - Cast-in-Place Concrete: Mounting material for foundations.

1.03 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
B. Product Data: Manufacturer's data sheets on each product to be used, including:
   1. Preparation instructions and recommendations.
   2. Storage and handling requirements and recommendations.
   3. Installation methods.
C. Shop Drawings: Indicate size, shape, and dimensions, including clearances from adjacent walls, doors, and obstructions.
D. Shop Drawings: Indicate foundation including materials and reinforcing, grade elevation, relationship to other built elements. Mounting methods to foundations.
E. Verification Samples: For each finish product specified, color chip verifying Architect's color selection.

1.04 DELIVERY, STORAGE, AND HANDLING

A. Store products in manufacturer's unopened packaging until ready for installation.
B. Handle racks with sufficient care to prevent scratches and other damage to the finish.

PART 2 PRODUCTS

2.01 FIXED EXTERIOR BACKED BENCHES

A. Manufacturer: Landscape Forms; www.landscapeforms.com.
B. Model: Plainwell, Backed, Center Divider, Surface Mounted.
C. Size: 72".
D. Frame: Panguard II, polyester powder coating. Color: Black.
E. Slats: IPE
F. Mounting: Reinforced cast-in-place concrete foundation.
G. Attachment Bolts: Provided with product to suit mounting condition. Finished to match frame.
H. Quantities: TBD Refer to the Landscape drawings for locations.

2.02 FIXED EXTERIOR TRASH RECEPTACLES

A. Manufacturer: Landscape Forms; www.landscapeforms.com.
B. Model: Plainwell

C. Frame: 3 inch outside diameter steel.
D. Basket: Side Opening.
E. Liner: 30-gallon polyethylene liner.
F. Finish of Frame and Basket: Panguard II, polyester powder coating. Color: Metallic Silver.
G. Mounting: Embedded frame for free-standing installation into concrete foundation.
H. Quantities: TBD Refer to the Landscape drawings for locations.

2.3 FIXED EXTERIOR BIKE RACKS

A. Manufacturer: Landscape Forms; www.landscapeforms.com.
B. Model: Ring-Stainless Steel
C. Quantities: TBD Refer to the Landscape drawings for locations.
D. Mounting: Embedded Mounting

2.4 DECORATIVE PLANTERS

A. Manufacturer, model, size and color per plans documents.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine surfaces to receive products.
B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
C. Do not begin installation until unsatisfactory substrates have been properly repaired.

3.02 PREPARATION

A. Ensure surfaces to receive products are clean, flat, and level.

3.03 INSTALLATION

A. Install in accordance with manufacturer's instructions.
B. Install products level, plumb, square, and correctly located as indicated on the drawings.
D. Surface Flange Installation: Anchor product securely in place with anchor bolts provided by manufacturer. Avoid damage to bolt finish. Touch-up only as necessary.

3.04 CLEANING

A. Clean installed work to like-new condition. Do not use cleaning materials or methods that could damage finish.

3.05 PROTECTION

A. Protect installed products until completion of project.
B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION

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12 93 00 SITE FURNISHINGS

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REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012
DRAWN BY: EH
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DATE: 08/29/2025
SHEET NO.: L10.7

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SECTION 32 01 00

LANDSCAPE MAINTENANCE & ESTABLISHMENT

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:
1. Weed Control and Prevention
2. Pest Control and Prevention.
3. Disease Control and Prevention.
4. Fertilization.
5. Pruning of Plant Material.
6. Replacement of Dead or Unhealthy Plant Material.
7. Watering Plant Material.
8. Monitoring, Adjustment and Repair of Irrigation System.
9. Monitoring Changing Soil Moisture and Weather Conditions.
10. Adjusting Length of Watering Cycles.

B. Related Requirements
1. Section 32 01 00 Landscape Maintenance & Establishment
2. Section 32 84 00 Planting Irrigation
3. Section 32 91 13 Soil Preparation
4. Section 32 93 00 Plants

1.3 REFERENCES

A. ANSI – American National Standards Institute:
1. Z60.1-1990 – American Standard for Nursery Stock.

B. NAA – National Arborist Association:
1. Pruning Standards for Shade Trees, 1988.

C. ICBN - International Code of Botanical Nomenclature.

D. ICNCP - International Code of Nomenclature of Cultivated Plants.

1.4 DEFINITIONS

A. Acceptance: Wherever the terms "acceptance" or "accepted" are used herein, they mean acceptance of the Owner, in writing.

B. IPM - Integrated Pest Management: An approach to pest control that utilizes regular monitoring to determine if and when treatments are needed and employs physical, mechanical, cultural, biological and educational tactics to keep pest numbers low enough to prevent intolerable damage or annoyance.

1.5 SUBMITTALS

A. Per General Conditions, Division 1.

B. Product Purchase and Delivery Documentation:
1. Fertilizer: Within 5 working days of each application submit purchase orders, invoices and receipts showing supplier name and address, person who sold product, date of purchase, specific product purchased, quantity purchased, and delivery date.

C. Manufacturer's Current Printed Instructions:
1. Fertilizer.
2. Required chemicals.

D. Documentation of Accepted Conditions: Within 7 working days after Owner's acceptance of maintenance, submit color photographs and a written report documenting the accepted conditions of the plant material.

E. Inspection Reports:
1. Monthly plant inspection report documenting signs of stress.

1.6 QUALITY ASSURANCE

A. General Requirements: Refer to Submittals.

B. Contractor Qualifications:
1. Maintenance Contractor: Minimum 5 years' experience in maintenance of commercial landscape projects.
2. Maintenance Supervisor: Minimum of 5 years' experience in landscape maintenance supervision, with experience and training in integrated pest management, turf management, entomology, pest control, soils, fertilizers and plant identification.
3. Labor Force: Thoroughly familiar and trained in the work to be accomplished and perform the task in a competent, efficient manner acceptable to the Owner.
4. Supervision: Directly employ and supervise the Work force at all times.

C. Notification of Change in Supervision: Notify the Owner, of changes in supervision.
1. Identification: Provide proper identification for landscape maintenance firm's labor force.

D. Regulatory Requirements:
1. Meet requirements of applicable laws, codes, and regulations required by authorities having jurisdiction over Work.
2. Provide for inspections and permits required by Federal, State, or local authorities in furnishing, transporting, and installing chemicals.
3. Submit a record of herbicides, insecticides and disease control chemicals used to the County Agricultural Commissioner's Office as required by law.

1.7 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Plant Material: Meet requirements of Section 32 93 00 - Plants

1.8 SITE CONDITIONS

A. Environmental Requirements:
1. Do not apply chemicals during windy conditions.

1.9 SEQUENCING AND SCHEDULING

A. Work Schedule:
1. Perform maintenance during hours accepted by the Owner.
2. Be present at the project site at least once a week and as often as necessary to perform specified maintenance.

B. Chemical Applications:
1. Notify the Owner in advance of required chemical applications.
2. Obtain the Owner approval of application schedule.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Gro-Power Products: Gro-Power Co., Inc., Chino, CA; (800) 473-1307 or approved equal.

2.2 MATERIALS

A. Replacement Plant Material:
1. Match existing genus, species, cultivar and size.
2. Meet requirements of Section 32 90 00.
3. Meet requirements of ANSI Z60.1, ICBN and ICNCP.

B. Fertilizers: Composition recommended by soil analysis.

C. Herbicides, Insecticides, and Fungicides: Legal commercial quality non-staining materials with original manufacturers' containers, properly labeled with guaranteed analysis, least toxic required.

D. Mulch: Same as original installation.

E. Water: Clean, fresh and potable.

PART 3 - EXECUTION

3.1 PREPARATION

A. Protection of Existing Conditions:
1. Use every possible precaution to prevent damage to existing conditions to remain such as structures, utilities, plant materials and walks on or adjacent to the site of the Work.
2. Provide barricades, fences or other barriers to protect existing conditions from damage during maintenance operations.
3. Do not store materials or equipment, permit burning, or operate or park equipment under the branches of existing plants.
4. Submit written notification of damaged plants and structures to the Owner immediately.

3.2 GENERAL MAINTENANCE AND ESTABLISHMENT

A. Maintenance and Establishment Period: Continuously maintain each plant and each portion after installation, during progress of work, and for a minimum period of two (2) years after Final completion and acceptance by the Owner until the Owner accepts maintenance. The Owner will have an option to extend maintenance of the landscape for a period of up to two (2) years beyond the close of the establishment period.

B. Integrated Pest Management: Employ principles of integrated pest management for each aspect of maintenance.

3.3 TREE AND SHRUB MAINTENANCE

A. A. Watering:
1. Using a soil sample tube, check root ball moisture and surrounding soil moisture at representative plants at least once a week.
2. Maintain bubblers and drip tubing around trees and shrubs so that enough water can be applied to establish moisture through root zones.
3. Adjust frequency and length of time for watering cycles according to changing soil and weather conditions.
4. For supplemental hand watering of plants, use a water wand to break the water force.
5. Do not permit crown roots to become exposed to air through dislodging of soil and mulch.
6. Maintain depth of mulch to reduce evaporation and frequency of watering.
7. Replenish mulch every 6 months, matching type and depth specified in 32 93 00. Remove and replace mulch as needed to ensure proper growth and at the end of the establishment period.

B. Settled or Leaning Plants: Reset plants to proper grades or upright position.

C. Weed Control:
1. Weed planter beds on a rotational basis, weekly through the year and by hand pulling or other mechanical means. Entire site shall be weeded by hand or mechanical weeding methods that remove the roots at least once monthly.
2. Avoid frequent soil cultivation that destroys shallow roots.

D. General Pruning:
1. Meet requirements of Pruning Standards for Shade Trees.

2. Prune trees to eliminate diseased or damaged growth.
3. Reduce toppling and wind damage by thinning out crowns.
4. Prune trees to maintain growth within space limitations, maintaining a natural appearance and balancing crown with roots.
5. Retain lower branches in a "tipped back" or pinched condition to promote caliper trunk growth.
6. Do not cut back to fewer than six buds or leaves on branches.
7. Prune damaged trees or those that constitute health or safety hazards at any time of year.
8. Make cuts clean and close to the trunk, without cutting into the branch collar.
9. Make larger cuts (one inch in diameter or larger) parallel to shoulder rings, with the top edge of the cut at the trunk or lateral branch.

E. Replacement of Plants: Replace, without cost to the Owner and as soon as weather conditions permit, plants not in a vigorous, thriving condition, during, and at the end of the maintenance period.

F. Apply fertilizer as recommended by soil analysis sample. Perform soil analysis once every six months until the end of establishment and maintenance period. Two samples from each block shall be taken to give a gross reading of the site soil conditions.

G. Irrigation System: See Section 32 84 00 - Irrigation.

3.4 GROUNDCOVERS

A. Watering:
1. Using a soil sampling tube, check for moisture penetration throughout the root zone at least once a week.
2. Water as frequently as necessary to maintain healthy growth of ground covers.
3. Adjust frequency and length of time for watering cycles according to changing soil and weather conditions.
4. Replenish mulch every 6 months, matching type and depth specified in 32 93 00.

B. Weed Control:
1. Weed planter beds on a rotational basis, weekly throughout the year by hand-pulling or other mechanical means. Entire site shall be weeded by hand or mechanical weeding methods that remove the roots at least once monthly.

C. Apply fertilizer as recommended by soil analysis sample. Perform soil analysis once every six months until the end of establishment and maintenance period. Two samples from each block shall be taken to give a gross reading of the site soil conditions.

D. Replacement of Ground Cover: Replace, without cost to the Owner, and as soon as weather conditions permit, ground cover plants not in vigorous, thriving, condition, during and at the end of the maintenance and establishment period.

3.5 INSECTS, PESTS AND DISEASE CONTROL

A. General:
1. Employ principles of IPM in the selection of preventative and control measures for plant pests and diseases.

2. Insignificant pests will be tolerated providing, they do not seriously threaten planting health and appearance.
3. Monitor the site closely and take timely action to address problems identified.
4. Use personnel licensed and experienced using materials approved by the EPA and conform to applicable laws, codes and regulations, under the direction of a licensed certified pest control operator.
5. Spray with extreme care to avoid hazards to any person, pet, or automobile in the area or adjacent areas.
6. Meet requirements of chemical manufacturer's current printed instructions.
7. The Contractor shall be held liable for plant damage due to the use of chemicals.

B. Inspection:
1. Inspect plant material weekly for signs of stress and damage.
2. Submit a written and photographic inspection report of findings monthly to the Owner.

C. Spraying:
1. When necessary, apply the least toxic chemical required for the existing problem.
2. Apply in strict accordance with manufacturer's current printed instructions.
3. Apply sprays only if a pest or disease is a serious threat and cease application after problem is under control.

3.6 FIELD QUALITY CONTROL

A. Maintenance Review:
1. At the end of the establishment period, request a review by the Owner to determine whether maintenance Work meets the requirements of the Contract Documents.
2. Submit a written request at least five working days prior to the anticipated date of review.
3. If it is found that the maintenance Work does not meet the requirements of the Contract Documents, the Contractor will receive written notification from the Owner of corrective Work preventing acceptance of the maintenance Work.
4. Perform corrective Work within ten calendar days after the review.
5. Upon completion of the corrective Work, request another review to determine whether the maintenance Work meets the requirements of the Contract Documents.
6. Corrective Work followed by review will be required until the corrective Work is found by the Owner to meet the requirements of the Contract Documents.

B. Owner's Acceptance of Maintenance:
1. When the Owner determines that the maintenance Work conforms to the requirements of the Contract Documents the Contractor will receive written notification designating the day which the Owner will accept maintenance responsibility.
2. Continue maintenance of landscape Work until the Owner, accepts maintenance.

END OF SECTION 32 01 00

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32 01 00 LANDSCAPE MAINT. & ESTABLISHMENT

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012
DRAWN BY: EH
CHECKED BY: BA
DATE: 08/29/2025
SHEET NO.: L10.8

100% CONSTRUCTION DOCUMENTS - NOT FOR CONSTRUCTION

SECTION 32 14 00

UNIT PAVING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Brick pavers set in **mortar** setting beds.
2. Concrete pavers set in **mortar** setting beds.
3. Cast-in-place concrete edge restraints.
4. Precast concrete curbs.

B. Related Requirements:
1. Section 321313 "Concrete Paving" **for concrete base under unit pavers and for cast-in-place concrete curbs and gutters serving as edge restraints for unit pavers**.

1.3 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at **Project site**.

1.4 ACTION SUBMITTALS

A. Product Data: For materials other than water and aggregates.

B. Product Data: For the following:

1. Pavers.
2. Mortar and grout materials.
3. Precast concrete curbs.

C. Samples for Verification: For full-size units of each type of unit paver indicated.

1.5 INFORMATIONAL SUBMITTALS

A. Adhesion and Compatibility Test Reports: From latex-additive manufacturer for mortar and grout containing latex additives.

B. Material Certificates: For unit pavers. Include statements of material properties indicating compliance with requirements, including compliance with standards. Provide for each type and size of unit.

C. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, for unit pavers, indicating compliance with requirements.

1. For solid interlocking paving units, include test data for freezing and thawing according to ASTM C 67.

1.6 QUALITY ASSURANCE

A. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for materials and execution.

1. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.7 PRECONSTRUCTION TESTING

A. Preconstruction Adhesion and Compatibility Testing: Submit to latex-additive manufacturer, for testing as indicated below, Samples of flooring materials that will contact or affect mortar and grout that contain latex additives.

1. Use manufacturer's standard test methods to determine whether mortar and grout materials will obtain optimal adhesion with, and will be nonstaining to, installed brick and other materials constituting brick flooring installation.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Store pavers on elevated platforms in a dry location. If units are not stored in an enclosed location, cover tops and sides of stacks with waterproof sheeting, securely tied.

B. Store cementitious materials on elevated platforms, under cover, and in a dry location. Do not use cementitious materials that have become damp.

C. Store aggregates where grading and other required characteristics can be maintained and contamination avoided.

D. Store liquids in tightly closed containers protected from freezing.

E. Store asphalt cement and other bituminous materials in tightly closed containers.

1.9 FIELD CONDITIONS

A. Cold-Weather Protection: Do not use frozen materials or materials mixed or coated with ice or frost. Do not build on frozen subgrade or setting beds. Remove and replace unit paver work damaged by frost or freezing.

B. Weather Limitations for Mortar and Grout:

1. Cold-Weather Requirements: Comply with cold-weather construction requirements contained in TMS 602/ACI 530.1/ASCE 6.
2. Hot-Weather Requirements: Comply with hot-weather construction requirements contained in TMS 602/ACI 530.1/ASCE 6. Provide artificial shade and windbreaks and use cooled materials as required. Do not apply mortar to substrates with temperatures of 100 deg F (38 deg C) and higher.

a. When ambient temperature exceeds 100 deg F (38 deg C), or when wind velocity exceeds 8 mph (13 km/h) and ambient temperature exceeds 90 deg F (32 deg C), set pavers within 1 minute of spreading setting-bed mortar.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Source Limitations: Obtain each type of unit paver, joint material, and setting material from single source with resources to provide materials and products of consistent quality in appearance and physical properties.

2.2 BRICK PAVERS

A.

1. Thickness: As indicated on plans.
2. Face Size: As indicated on plans.
3. Color: As indicated on plans.

B. Efflorescence: Brick shall be rated "not effloresced" when tested according to ASTM C 67.

2.3 CONCRETE PAVERS

A. Concrete Pavers: Solid interlocking paving units complying with ASTM C 936/C 936M, made from normal-weight aggregates.

1. Thickness: As indicated on plans.
2. Face Size and Shape: As indicated on plans.
3. Color: As indicated on plans.

B. Concrete Pavers: Solid paving units made from normal-weight concrete with a compressive strength not less than **8000 psi** , water absorption not more than 5 percent according to ASTM C 140, and no breakage and not more than 1 percent mass loss when tested for freeze-thaw resistance according to ASTM C 67.

2.4 CURBS AND EDGE RESTRAINTS

A. Job-Built Concrete Edge Restraints: Comply with requirements in Section 033000 "Cast-in-Place Concrete" for normal-weight, air-entrained, ready-mixed concrete with minimum 28-day compressive strength of 3000 psi (20 MPa).

2.5 MORTAR SETTING-BED MATERIALS

A. Portland Cement: ASTM C 150/C 150M, Type I or Type II.

B. Hydrated Lime: ASTM C 207, Type S.

C. Sand: ASTM C 144.

D. Latex Additive: **Manufacturer's standard** water emulsion, serving as replacement for part or all of gaging water, of type specifically recommended by latex-additive manufacturer for use with field-mixed portland cement and aggregate mortar bed, and not containing a retarder.

E. Thin-Set Mortar for Bond Coat: Latex-portland cement mortar complying with ANSI A118.4.
1. Provide prepackaged, dry-mortar mix containing dry, redispersible, vinyl acetate or acrylic additive to which only water must be added at Project site.
2. Provide product that is approved by manufacturer for application thickness of **5/8 inch**

F. Water: Potable.

2.6 MORTAR AND GROUT MIXES

A. General: Comply with referenced standards and with manufacturers' written instructions for mix proportions, mixing equipment, mixer speeds, mixing containers, mixing times, and other procedures needed to produce setting-bed and joint materials of uniform quality and with optimal performance characteristics. Discard mortars and grout if they have reached their initial set before being used.

B. Mortar-Bed Bond Coat: Mix neat cement and **water** to a creamy consistency.

C. Portland Cement-Lime Setting-Bed Mortar: Type M complying with ASTM C 270, Proportion Specification.

D. Latex-Modified, Portland Cement Setting-Bed Mortar: Proportion and mix portland cement, sand, and latex additive for setting bed to comply with written instructions of latex-additive manufacturer and as necessary to produce stiff mixture with a moist surface when bed is ready to receive pavers.

E. Latex-Modified, Portland Cement Bond Coat: Proportion and mix portland cement, aggregate, and liquid latex for bond coat to comply with written instructions of liquid-latex manufacturer.

F. Thinset Mortar Bond Coat: Proportion and mix according to manufacturer's written instructions.

G. Job-Mixed Portland Cement Grout: Proportion and mix job-mixed portland cement and aggregate grout to match setting-bed mortar except omit hydrated lime and use enough water to produce a pourable mixture.

H. Packaged Grout: Proportion and mix according to grout manufacturer's written instructions.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine surfaces indicated to receive unit paving, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Remove substances from concrete substrates that could impair mortar bond, including curing and sealing compounds, form oil, and laitance.

B. Sweep concrete substrates to remove dirt, dust, debris, and loose particles.

3.3 INSTALLATION, GENERAL

A. Do not use unit pavers with chips, cracks, voids, discolorations, or other defects that might be visible or cause staining in finished work.

B. Mix pavers from several pallets or cubes, as they are placed, to produce uniform blend of colors and textures.

C. Cut unit pavers with motor-driven masonry saw equipment to provide clean, sharp, unchipped edges. Cut units to provide pattern indicated and to fit adjoining work neatly. Use full units without cutting where possible. Hammer cutting is not acceptable.

D. Joint Pattern: As indicated on the plan documents.

E. Tolerances: Do not exceed 1/32-inch (0.8-mm) unit-to-unit offset from flush (lippage) or 1/8 inch in 10 feet (3 mm in 3 m) from level, or indicated slope, for finished surface of paving.

F. Provide edge restraints as indicated. Install edge restraints before placing unit pavers.
1. Install job-built concrete edge restraints to comply with requirements in Section 033000 "Cast-in-Place Concrete."

3.4 MORTAR SETTING-BED APPLICATIONS

A. Saturate concrete subbase with clean water several hours before placing setting bed. Remove surface water about one hour before placing setting bed.

B. Apply mortar-bed bond coat over surface of concrete subbase about 15 minutes before placing mortar bed. Do not exceed 1/16-inch (1.6-mm) thickness for bond coat. Limit area of bond coat to avoid its drying out before placing setting bed.

C. Apply mortar bed over bond coat; spread and screed mortar bed to uniform thickness at subgrade elevations required for accurate setting of pavers to finished grades indicated.

D. Mix and place only that amount of mortar bed that can be covered with pavers before initial set. Before placing pavers, cut back, bevel edge, and remove and discard setting-bed material that has reached initial set.

E. Wet brick pavers before laying if the initial rate of absorption exceeds 30 g/30 sq. in. (30 g/194 sq. cm) per minute when tested according to ASTM C 67. Allow units to absorb water so they are damp but not wet at time of laying.

F. Place pavers before initial set of cement occurs. Immediately before placing pavers on mortar bed, apply uniform 1/16-inch- (1.5-mm-) thick bond coat to mortar bed or to back of each paver with a flat trowel.

G. Tamp or beat pavers with a wooden block or rubber mallet to obtain full contact with setting bed and to bring finished surfaces within indicated tolerances. Set each paver in a single operation before initial set of mortar; do not return to areas already set or disturb pavers for purposes of realigning finished surfaces or adjusting joints.

3.5 REPAIRING, POINTING, AND CLEANING

A. Remove and replace unit pavers that are loose, chipped, broken, stained, or otherwise damaged or that do not match adjoining units. Provide new units to match adjoining units and install in same manner as original units, with same joint treatment and with no evidence of replacement.

B. Pointing: During tooling of joints, enlarge voids or holes and completely fill with grout. Point joints at sealant joints to provide a neat, uniform appearance, properly prepared for sealant application.

C. Cleaning: Remove excess grout from exposed paver surfaces; wash and scrub clean.

1. Remove temporary protective coating as recommended by coating manufacturer and as acceptable to paver and grout manufacturers.
2. Do not allow protective coating to enter floor drains. Trap, collect, and remove coating material.

END OF SECTION 32 14 00

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32 14 00 UNIT PAVING

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012

DRAWN BY: EH | CHECKED BY: BA

DATE: 08/29/2025

SHEET NO.:

L10.9

100% CONSTRUCTION DOCUMENTS - NOT FOR CONSTRUCTION

SECTION 32 17 26

TACTILE WARNING SURFACING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:
1. Detectable warning unit pavers.

B. Related Requirements:

1. Section 321313 "Concrete Paving" for concrete walkways serving as substrates for tactile warning surfacing.
2. Section 321400 "Unit Paving" for unit paving installations incorporating detectable warning unit pavers specified in this Section.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Samples for Initial Selection: For each type of exposed finish requiring color selection.

C. Samples for Verification: For each type of tactile warning surface, in manufacturer's standard sizes unless otherwise indicated, showing edge condition, truncated-dome pattern, texture, color, and cross section; with fasteners and anchors.

1.4 CLOSEOUT SUBMITTALS

A. Maintenance Data: For tactile warning surfacing, to include in maintenance manuals.

1.5 QUALITY ASSURANCE

A. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for materials and execution.

1. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.6 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.7 PROJECT CONDITIONS

A. Cold-Weather Protection: Do not use frozen materials or materials mixed or coated with ice or frost. Do not build on frozen subgrade or setting beds. Remove and replace unit paver work damaged by frost or freezing.

B. Weather Limitations for Mortar and Grout:

1. Cold-Weather Requirements: Comply with cold-weather construction requirements contained in ACI 530.1/ASCE 6/TMS 602.
2. Hot-Weather Requirements: Comply with hot-weather construction requirements contained in ACI 530.1/ASCE 6/TMS 602. Provide artificial shade and windbreaks, and use cooled materials as required. Do not apply mortar to substrates with temperatures of 100 deg F (38 deg C) and higher.

a. When ambient temperature exceeds 100 deg F (38 deg C), or when wind velocity exceeds 8 mph (13 km/h) and ambient temperature exceeds 90 deg F (32 deg C), set unit pavers within 1 minute of spreading setting-bed mortar.

1.8 WARRANTY

A. Special Warranty: Manufacturer agrees to repair or replace components of tactile warning surfaces that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:

a. Deterioration of finishes beyond normal weathering and wear.
b. Separation or delamination of materials and components.

2. Warranty Period: **Five** years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 TACTILE WARNING SURFACING, GENERAL

A. Accessibility Requirements: Comply with applicable provisions in **the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines for Buildings and Facilities** for tactile warning surfaces.

1. For tactile warning surfaces composed of multiple units, provide units that when installed provide consistent side-to-side and end-to-end dome spacing that complies with requirements.

B. Source Limitations: Obtain each type of tactile warning surfacing from single source with resources to provide materials and products of consistent quality in appearance and physical properties.

2.2 DETECTABLE WARNING UNIT PAVERS

A. Detectable Warning Concrete Unit Pavers: Solid paving units, made from normal-weight concrete with a compressive strength of not less than 5000 psi, water absorption of not more than 5 percent according to ASTM C 140, and no breakage and not more than 1 percent mass loss when tested for freeze-thaw resistance according to ASTM C 67, with accessible detectable warning truncated domes on exposed surface of units.

1. Hardscapes USA – Bremen ADA
2. Shapes and Sizes:

a. Thickness: **2-3/8"** at field of tile.
b. Face Size: **4" x 8"** Nominal.

3. Dome Spacing and Configuration: **Manufacturer's standard compliant spacing** pattern.
4. Color: **Maize**.

B. Setting Bed: Comply with requirements in Section 321400 "Unit Paving."

C. Mortar Setting Bed:

1. Portland Cement: ASTM C 150/C 150M, Type I or Type II.
2. Sand: ASTM C 33/C 33M.
3. Latex Additive: Manufacturer's standard water emulsion, serving as replacement for part or all of gaging water, of type specifically recommended by latex-additive manufacturer for use with field-mixed portland cement and aggregate mortar bed, and not containing a retarder.
4. Thinset Mortar: Latex-modified portland cement mortar complying with ANSI A118.4.
5. Water: Potable.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that pavement is in suitable condition to begin installation according to manufacturer's written instructions. Verify that installation of tactile warning surfacing will comply with accessibility requirements upon completion.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION OF DETECTABLE WARNING UNIT PAVERS

A. Unit Paver Installation, General:

1. Setting-Bed and Unit Paver Installation: Comply with installation requirements in Section 321400 "Unit Paving."
2. Mix unit pavers from several pallets or cubes, as they are placed, to produce uniform blend of colors and textures.
3. Cut unit pavers with motor-driven masonry saw equipment to provide pattern indicated and to fit adjoining work neatly. Use full units without cutting where possible.
4. Tolerances: Do not exceed 1/4 inch in 10 feet from level, or indicated slope, for finished surface of paving.

B. Mortar Setting-Bed Applications:

1. Saturate concrete subbase with clean water several hours before placing setting bed. Remove surface water about one hour before placing setting bed.
2. Apply mortar-bed bond coat over surface of concrete subbase about 15 minutes before placing mortar bed. Limit area of bond coat to avoid its drying out before placing setting bed. Do not exceed 1/16-inch thickness for bond coat.
3. Apply mortar bed over bond coat; spread and screed mortar bed to uniform thickness at subgrade elevations required for accurate setting of pavers to finished grades indicated.
4. Mix and place only that amount of mortar bed that can be covered with pavers before initial set. Before placing pavers, cut back, bevel edge, and remove and discard setting-bed material that has reached initial set.
5. Place pavers before initial set of cement occurs. Immediately before placing pavers on mortar bed, apply uniform 1/16-inch thick bond coat to mortar bed or to back of each paver with a flat trowel.
6. Tamp or beat pavers with a wooden block or rubber mallet to obtain full contact with setting bed and to bring finished surfaces within indicated tolerances. Set each paver in a single operation before initial set of mortar; do not return to areas already set or disturb pavers for purposes of realigning finished surfaces or adjusting joints.
7. Protect installation from traffic until grout has set.

3.3 CLEANING AND PROTECTION

A. Remove and replace tactile warning surfacing that is broken or damaged or does not comply with requirements in this Section. Remove in complete sections from joint to joint unless otherwise approved by Architect. Replace using tactile warning surfacing installation methods acceptable to Architect.

B. Protect tactile warning surfacing from damage and maintain free of stains, discoloration, dirt, and other foreign material.

END OF SECTION 32 17 26

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32 17 26 TACTILE WARNING SURFACING

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012
DRAWN BY: EH
CHECKED BY: BA
DATE: 08/29/2025
SHEET NO.: L10.10

100% CONSTRUCTION DOCUMENTS - NOT FOR CONSTRUCTION

SECTION 32 31 19

DECORATIVE METAL FENCING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Decorative aluminum fencing for Palafox Planters.

B. Related Requirements:

Section **03 33 00 "Cast-in-Place Concrete"** for concrete **base curbing for post support**.

1.3 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Palafox Street, exact site to be determined.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: For fencing. Include plans, elevations, sections, details, and attachments to other work. Include specifications for all materials utilized for the fencing.

C. Samples: For each fence material and for each color specified.

1. Provide Samples approximately **24 inches** in length for the fencing.

1.5 INFORMATIONAL SUBMITTALS

A. Field quality-control reports.

1.6 CLOSEOUT SUBMITTALS

A. Maintenance Data: For fencing upkeep.

1.7 QUALITY ASSURANCE

A. Installer Qualifications: Fabricator of products.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

2.2 DECORATIVE ALUMINUM FENCING

A. Decorative Aluminum Fences: Fences made from aluminum extrusions for the Palafox Planters.

B. Fencing shall match in form, style, shape, material, and finish, the existing decorative fencing on the existing Palafox Planters.

2.3 ALUMINUM

A. Shall match material grade and quality of the existing Palafox Planters decorative fencing.

2.4 COATING MATERIALS

A. Shall match material grade and quality of the existing Palafox Planters decorative fencing.

2.5 MISCELLANEOUS MATERIALS

A. Concrete: Normal-weight, air-entrained, ready-mix concrete complying with requirements in Section 033000 "Cast-in-Place Concrete" with a minimum 28-day compressive strength of 3000 psi 3-inch slump, and 1-inch maximum aggregate size.

2.6 ALUMINUM FINISHES

A. Shall match material grade and quality of the existing Palafox Planters decorative fencing

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas and conditions, with Installer present, for compliance with requirements for site clearing, earthwork, pavement work, construction layout, and other conditions affecting performance of the Work.

B. Do not begin installation before final grading is completed unless otherwise permitted by Architect.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 DECORATIVE FENCE INSTALLATION

A. Install fences according to manufacturer's written instructions.

B. Install fences to match material grade and quality of the existing Palafox Planters decorative fencing

END OF SECTION

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32 31 19 DECORATIVE METAL FENCING

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012
DRAWN BY: EH
CHECKED BY: BA
DATE: 08/29/2025
SHEET NO.: L10.11

100% CONSTRUCTION DOCUMENTS - NOT FOR CONSTRUCTION

SECTION 32 84 00

PLANTING IRRIGATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:
1. Warranty
2. Piping.
3. Encasement for piping.
4. Manual valves.
5. Pressure-reducing valves.
6. Automatic control valves.
7. Automatic drain valves.
8. Transition fittings.
9. Miscellaneous piping specialties.
10. Sprinklers.
11. Quick couplers.
12. Controllers.
13. Boxes for automatic control valves.

1.3 DEFINITIONS

A. Circuit Piping: Downstream from control valves to sprinklers, specialties, and drain valves. Piping is under pressure during flow.

B. Drain Piping: Downstream from circuit-piping drain valves. Piping is not under pressure.

C. ET Controllers: EvapoTranspiration Controllers. Irrigation controllers which use some method of weather based adjustment of irrigation. These adjusting methods include use of historical monthly averages of ET; broadcasting of ET measurements; or use of on-site sensors to track ET.

D. Main Piping: Downstream from point of connection to water distribution piping to, and including, control valves. Piping is under water-distribution-system pressure.

E. Low Voltage: As defined in NFPA 70 for circuits and equipment operating at less than 50 V or for remote-control, signaling power-limited circuits.

1.4 PERFORMANCE REQUIREMENTS

A. Irrigation zone control shall be **automatic operation with controller and automatic control** valves.

B. Location of Sprinklers and Specialties: Design location is approximate. Make minor adjustments necessary to avoid plantings and obstructions such as signs and light standards. Maintain 100 percent irrigation coverage of areas indicated.

C. Minimum Working Pressures: The following are minimum pressure requirements for piping, valves, and specialties unless otherwise indicated:

1. Irrigation Main Piping: **60 psi**
2. Circuit Piping: **30 psi**

1.5 ACTION SUBMITTALS

A. Product Data: For each type of product indicated. Include rated capacities, operating characteristics, and furnished specialties and accessories.

B. Wiring Diagrams: For power, signal, and control wiring.

1.6 INFORMATIONAL SUBMITTALS

A. Qualification Data: For qualified Installer.

B. Field quality-control reports.

1.7 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: For **sprinklers, controller, isolation valves, and automatic control valves**, to include in operation and maintenance manuals.

B. Provide the following attic stock:
1. Sprinkler heads: 6 for each type
2. Electric control valves: 3
3. Solenoids: 6

1.8 QUALITY ASSURANCE

A. Installer Qualifications: Company must have three years of experience installing systems of similar size and complexity. Company must have qualified superintended on-site at all times who has minimum three years' experience installing irrigation systems of similar size and complexity.

B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

1.9 WARRANTY

1. The Contractor shall furnish a certificate of warranty registration and a written guarantee of work and materials for a one-year period from the date of final acceptance of the Irrigation System by the Owner.

1.10 DELIVERY, STORAGE, AND HANDLING

A. Store plastic piping protected from direct sunlight. Support to prevent sagging and bending.

B. Contractor is responsible for storage and security of all materials stored on site.

1.11 PROJECT CONDITIONS

A. Interruption of Existing Water Service: Do not interrupt water service to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary water service according to requirements indicated:

1. Notify **Owner** no fewer than five days in advance of proposed interruption of water service.
2. Do not proceed with interruption of water service without **Owner's** written permission.

PART 2 - PRODUCTS

2.1 PIPES, TUBES, AND FITTINGS

A. Comply with requirements in the piping schedule for applications of pipe, tube, and fitting materials, and for joining methods for specific services, service locations, and pipe sizes.

B. PVC Pipe, Pressure Rated: ASTM D 2241, PVC 1120 compound, **SDR 21** class 200.

1. PVC Socket Fittings: ASTM D 2467, Schedule 80.
2. PVC Socket Unions: Construction similar to MSS SP-107, except both headpiece and tailpiece shall be PVC with socket or threaded ends.

C. PE Pipe with Controlled OD: ASTM F 771, PE 4710 compound, SDR 11.

1. PE Butt, Heat-Fusion Fittings: ASTM D 3261.Fittings in subparagraph below are available in NPS 1/2 to NPS 4 (DN 15 to DN 100).

D. PE Socket-Type Fittings: ASTM D 2683

2.2 PIPING JOINING MATERIALS

A. Solvent Cements for Joining PVC Piping: ASTM D 2564. Include primer according to ASTM F 656.

2.3 MANUAL VALVES

A. Iron Gate Valves, Resilient Seated:

1. As indicated on the drawings.

B. Operating Wrenches for Iron Gate Valve Casings: Furnish **one** steel, tee-handle operating wrench(es) with one pointed end, stem of length to operate deepest buried valve, and socket matching valve operating nut for Project.

2.4 PRESSURE-REDUCING VALVES

A. Water Regulators:
1. As indicated on the drawings.

B. Water Control Valves:

1. As indicated on the drawings.

2.5 AUTOMATIC CONTROL VALVES

A. Plastic, Automatic Control Valves:

1. As indicated on the drawings.
2. Description: Molded-plastic body, normally closed, diaphragm type with manual-flow adjustment, and operated by 24-V ac solenoid.

2.6 AUTOMATIC DRAIN VALVES

A. Description: Spring-loaded-ball type of corrosion-resistant construction and designed to open for drainage if line pressure drops below 2-1/2 to 3 psig (17 to 20 kPa).

2.7 TRANSITION FITTINGS

A. General Requirements: Same size as, and with pressure rating at least equal to and with ends compatible with, piping to be joined.

2.8 SPRINKLERS AND DRIP IRRIGATION
A. General Requirements: Designed for uniform coverage over entire planting area indicated at available water pressure.
1. Plastic, Pop-up, Gear-Drive Rotary Sprinklers:
   a. As indicated on the drawings.
2. Plastic, Surface, Pop-up Spray Sprinklers:
   a. As indicated on the drawings.
3. Plastic, Pop-up Spray Sprinklers:
   a. As indicated on the drawings.
4. Plastic Shrub Sprinklers:
   a. As indicated on the drawings.

2.9 CONTROLLERS

A. As indicated on the drawings.

B. Description:
1. Exterior Control Enclosures: NEMA 250, Type 4, weatherproof, with locking cover and **two** matching keys; include provision for grounding.
   a. Body Material: **Molded plastic**.
   b. Mounting: **Surface type for wall**.
2. Control Transformer: 24-V secondary, with primary fuse.
3. Timing Device: Adjustable, 24-hour, 14-day clock, with automatic operations to skip operation any day in timer period, to operate every other day, or to operate two or more times daily.
   a. Manual or Semiautomatic Operation: Allows this mode without disturbing preset automatic operation.
   b. Nickel-Cadmium Battery and Trickle Charger: Automatically powers timing device during power outages.
   c. Surge Protection: Metal-oxide-varistor type on each station and primary power.
4. Moisture Sensor: Adjustable from one to seven days, to shut off water flow during rain.
5. Smart Controllers: Use ET, tested in accordance with IA SWAT Climatological Based Controllers 8th Draft Testing Protocol and compliant with ASHRAE Standard 189.1.
6. Wiring: UL 493, Type UF multiconductor, with solid-copper conductors; insulated cable; suitable for direct burial.
   a. Feeder-Circuit Cables: No. 12 AWG minimum, between building and controllers.
   b. Low-Voltage, Branch-Circuit Cables: No. 14 AWG minimum, between controllers and automatic control valves; color-coded different from feeder-circuit-cable jacket color; with jackets of different colors for multiple-cable installation in same trench.
   c. Splicing Materials: Manufacturer's packaged kit consisting of insulating, spring-type connector or crimped joint and epoxy resin moisture seal; suitable for direct burial.

2.10 BOXES FOR AUTOMATIC CONTROL VALVES

A. Plastic Boxes:
1. Description: Box and cover, with open bottom and openings for piping; designed for installing flush with grade.
   a. Size: As required for valves and service.
   b. Shape: As required for valves and service.
   c. Sidewall Material: **PE**.
   d. Cover Material: **PE**.
      1) Lettering: "**VALVE BOX**"

PART 3 - EXECUTION

3.1 EARTHWORK

A. Excavating, trenching, and backfilling are specified in Section 312000 "Earth Moving."

B. Provide minimum cover over top of underground piping according to the following:

1. Irrigation Main Piping: Minimum depth of **24 inches** below finished grade, or not less than **18 inches** below average local frost depth, whichever is deeper.
2. Circuit Piping: **18 inches**.
3. Drain Piping: **18 inches**.
4. Sleeves: **36 inches**.

3.2 PREPARATION

A. Set stakes to identify locations of proposed irrigation system. Obtain Landscape Architect's approval before excavation.

3.3 PIPING INSTALLATION

A. Location and Arrangement: Drawings indicate location and arrangement of piping systems. Install piping as indicated unless deviations are approved on Coordination Drawings.

B. Install piping at minimum uniform slope of 0.5 percent down toward drain valves.

C. Install piping free of sags and bends.

D. Install groups of pipes parallel to each other, spaced to permit valve servicing.

E. Install fittings for changes in direction and branch connections.

F. Install unions adjacent to valves and to final connections to other components with NPS 2 (DN 50) or smaller pipe connection.

G. Install flanges adjacent to valves and to final connections to other components with NPS 2-1/2 (DN 65) or larger pipe connection.

H. Lay piping on solid subbase, uniformly sloped without humps or depressions.

I. Install ductile-iron piping according to AWWA C600.

J. Install PVC piping in dry weather when temperature is above 40 deg F (5 deg C). Allow joints to cure at least 24 hours at temperatures above 40 deg F (5 deg C) before testing.

K. Install piping in sleeves under parking lots, roadways, and sidewalks.

L. Install sleeves made of **Schedule 40** PVC pipe and socket fittings, and solvent-cemented joints.

M. Install all pipe within the FDOT right of way in accordance with FDOT Design Manual and Standard Index Drawings.

3.4 JOINT CONSTRUCTION

A. Ream ends of pipes and tubes and remove burrs. Bevel plain ends of steel pipe.

B. Remove scale, slag, dirt, and debris from inside and outside of pipe and fittings before assembly.

C. Threaded Joints: Thread pipe with tapered pipe threads according to ASME B1.20.1. Cut threads full and clean using sharp dies. Ream threaded pipe ends to remove burrs and restore full ID. Join pipe fittings and valves as follows:

1. Apply appropriate tape or thread compound to external pipe threads unless dry seal threading is specified.
2. Damaged Threads: Do not use pipe or pipe fittings with threads that are corroded or damaged. Do not use pipe sections that have cracked or open welds.

D. Flanged Joints: Select rubber gasket material, size, type, and thickness for service application. Install gasket concentrically positioned. Use suitable lubricants on bolt threads.

E. Ductile-Iron Piping Gasketed Joints: Comply with AWWA C600 and AWWA M41.

F. PVC Piping Solvent-Cemented Joints: Clean and dry joining surfaces. Join pipe and fittings according to the following:

1. Comply with ASTM F 402 for safe-handling practice of cleaners, primers, and solvent cements.
2. PVC Pressure Piping: Join schedule number, ASTM D 1785, PVC pipe and PVC socket fittings according to ASTM D 2672. Join other-than-schedule-number PVC pipe and socket fittings according to ASTM D 2855.
3. PVC Nonpressure Piping: Join according to ASTM D 2855.

3.5 VALVE INSTALLATION

A. Underground Iron Gate Valves, Resilient Seat: Comply with AWWA C600 and AWWA M44. Install in valve casing with top flush with grade.

1. Install valves and PVC pipe with restrained, gasketed joints.

B. Pressure-Reducing Valves: Install in boxes for automatic control valves or aboveground between shutoff valves.

C. Drain Valves: Install in underground piping in boxes for automatic control valves.

3.6 SPRINKLER INSTALLATION

A. Install sprinklers after hydrostatic test is completed.

B. Install sprinklers at manufacturer's recommended heights.

C. Locate part-circle sprinklers to maintain a minimum distance of 4 inches (100 mm) from walls and 4 inches (50 mm) from other boundaries unless otherwise indicated.

3.7 AUTOMATIC IRRIGATION-CONTROL SYSTEM INSTALLATION

A. Equipment Mounting: Install exterior wall-mounted devices on exterior wall in specific location approved by Owner and Landscape Architect.

1. Place and secure anchorage devices. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.
2. Install anchor bolts to elevations required for proper attachment to supported equipment.
3. All wiring extending above grade to controller shall be in conduit and securely neatly to wall.

B. Install control cable in same trench as irrigation piping **beside** piping. Provide conductors of size not smaller than recommended by controller manufacturer. Install cable in separate sleeve under paved areas.

3.8 CONNECTIONS

A. Install piping adjacent to equipment, valves, and devices to allow service and maintenance.

B. Connect wiring between controllers and automatic control valves.

3.9 FIELD QUALITY CONTROL

A. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect, test, and adjust components, assemblies, and equipment installations, including connections.

B. Perform tests and inspections.

1. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections, and to assist in testing.

C. Tests and Inspections:

1. Leak Test: After installation, charge system and test for leaks. Repair leaks and retest until no leaks exist.
2. Operational Test: After electrical circuitry has been energized, operate controllers and automatic control valves to confirm proper system operation.
3. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.

D. Any irrigation product will be considered defective if it does not pass tests and inspections.

E. Prepare test and inspection reports.

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32 84 00 PLANTING IRRIGATION

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012
DRAWN BY: EH
CHECKED BY: BA
DATE: 08/29/2025
SHEET NO.:
L10.12

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3.10 STARTUP SERVICE

A. Perform startup service.

1. Complete installation and startup checks according to manufacturer's written instructions.
2. Verify that controllers are installed and connected according to the Contract Documents.
3. Verify that electrical wiring installation complies with manufacturer's submittal.

3.11 ADJUSTING

A. Adjust settings of controllers.

B. Adjust automatic control valves to provide flow rate at rated operating pressure required for each sprinkler circuit.

C. Adjust sprinklers and devices, except those intended to be mounted aboveground, so they will be flush with, or not more than **1/2 inch** above, finish grade.

3.12 CLEANING

A. Flush dirt and debris from piping before installing sprinklers and other devices.

3.13 DEMONSTRATION

A. Train Owner's maintenance personnel to adjust, operate, and maintain automatic control valves and controllers.

3.14 PIPING SCHEDULE

A. As indicated on the drawings and defined herein.

3.15 VALVE SCHEDULE

A. Underground, Shutoff-Duty Valves: Use the following:
1. As indicated on the drawings.

B. Drain Valves:
1. As Indicated on the drawings.

END OF SECTION 32 84 00

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32 84 00 PLANTING IRRIGATION-CONT

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SECTION 32 91 13

SOIL PREPARATION

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes fine grading and planting soils specified by composition of the mixes.

B. Related Requirements:

1. Section 311000 Site Clearing for topsoil stripping and stockpiling.

1.2 DEFINITIONS

A. Planting Soil: Existing, on-site soil; imported soil; or manufactured soil that has been modified as specified with soil amendments and perhaps fertilizers to produce a soil mixture best for plant growth.

B. Subgrade: Surface or elevation of subsoil remaining after excavation is complete, or the top surface of a fill or backfill before planting soil is placed.

C. Subsoil: Soil beneath the level of subgrade; soil beneath the topsoil layers of a naturally occurring soil profile, typified by less than 1 percent organic matter and few soil organisms.

D. Surface Soil: Soil that is present at the top layer of the existing soil profile. In undisturbed areas, surface soil is typically called "topsoil"; but in disturbed areas such as urban environments, the surface soil can be subsoil.

1.3 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at **Project site**.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Samples: For each bulk-supplied material in sealed containers labeled with content, source, and date obtained; providing an accurate representation of composition, color, and texture.

1.5 INFORMATIONAL SUBMITTALS

A. Field quality-control reports.

1.6 QUALITY ASSURANCE

A. Testing Agency Qualifications: An independent, state-operated, or university-operated laboratory; experienced in soil science, soil testing, and plant nutrition; with the experience and capability to conduct the testing indicated; and that specializes in types of tests to be performed.

PART 2 - PRODUCTS

2.1 PLANTING SOILS SPECIFIED BY COMPOSITION

A. Planting-Soil Type Existing, on-site surface soil; modified to produce viable planting soil. Blend existing, on-site surface soil with the soil amendments and fertilizers to produce planting soil as specified herein and recommended by a testing laboratory for plant types specified.

2.2 INORGANIC SOIL AMENDMENTS

A. Lime: ASTM C 602, agricultural liming material containing a minimum of 80 percent calcium carbonate equivalent and as follows:

B.

1. Class: O, with a minimum of 95 percent passing through a No. 8 (2.36-mm) sieve and a minimum of 55 percent passing through a No. 60 (0.25-mm) sieve.
2. Form: Provide lime in form of ground **dolomitic limestone.**

C. Iron Sulfate: Granulated ferrous sulfate containing a minimum of 20 percent iron and 10 percent sulfur.

D. Perlite: Horticultural perlite, soil amendment grade.

E. Agricultural Gypsum: Minimum 90 percent calcium sulfate, finely ground with 90 percent passing through a No. 50 (0.30-mm) sieve.

F. Sand: Clean, washed, natural or manufactured, free of toxic materials, and according to **ASTM C 33/C 33M**

2.3 ORGANIC AMENDMENTS

A. Mushroom Compost: Locally produced/available compost.

2.4 FERTILIZERS

A. Commercial Fertilizer: Commercial-grade complete fertilizer of neutral character, consisting of fast- and slow-release nitrogen, 50 percent derived from natural organic sources of urea formaldehyde, phosphorous, and potassium in the following composition:

1. Composition: Nitrogen, phosphorous, and potassium in amounts recommended in soil reports from a qualified testing agency.

B. Slow-Release Fertilizer: Granular or pelleted fertilizer consisting of 50 percent water-insoluble nitrogen, phosphorus, and potassium in the following composition:

1. Composition: Nitrogen, phosphorous, and potassium in amounts recommended in soil reports from a qualified testing agency.

PART 3 - EXECUTION

3.1 GENERAL

A. Place planting soil or topsoil to a depth of six (6) inches in exterior planting areas after subgrading is complete.

B. Verify that no foreign or deleterious material or liquid such as paint, paint washout, concrete slurry, concrete layers or chunks, cement, plaster, oils, asphalt, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, or acid has been deposited in planting soil.

3.2 BLENDING PLANTING SOIL IN PLACE

A. General: Mix amendments with in-place, unamended soil to produce required planting soil. Do not apply materials or till if existing soil or subgrade is frozen, muddy, or excessively wet.

B. Preparation: Till unamended, existing soil in planting areas to a minimum depth of **6 inches (150 mm)** Remove stones larger than **2 inches (50 mm)** in any dimension and sticks, roots, rubbish, and other extraneous matter and legally dispose of them off Owner's property.

C. Mixing: Apply soil amendments and fertilizer, if required, evenly on surface, and thoroughly blend them into full depth of unamended, in-place soil to produce planting soil.

1. Mix **lime and sulfur**, if recommended by soil tests,with dry soil before mixing fertilizer.
2. Mix mushroom compost at one part compost to four parts unamended soil.
3. Mix fertilizer with planting soil no more than seven days before planting.

D. Compaction: Compact blended planting soil to **75 to 85** percent of maximum Standard Proctor density according to ASTM D 698.

E. Finish Grading: Grade planting soil to a smooth, uniform surface plane with loose, uniformly fine texture. Roll and rake, remove ridges, and fill depressions to meet finish grades.

3.3 FIELD QUALITY CONTROL

A. Testing Agency: **Engage** a qualified testing agency to perform tests and inspections.

B. Perform the following tests **and inspections**:

1. Compaction: Test planting-soil compaction after placing each lift and at completion using a densitometer or soil-compaction meter calibrated to a reference test value based on laboratory testing according to ASTM D 698. Space tests at no less than one for each **20,000 sq. ft.** of in-place soil or part thereof.

C. Soil will be considered defective if it does not pass tests **and inspections**.

D. Prepare test **and inspection** reports.

E. Label each sample and test report with the date, location keyed to a site plan or other location system, visible conditions when and where sample was taken, and sampling depth.

3.4 PROTECTION AND CLEANING

A. Protection Zone: Identify protection zones according to Section 015639 "Temporary Tree and Plant Protection."

B. Protect areas of in-place soil from additional compaction, disturbance, and contamination. Prohibit the following practices within these areas except as required to perform planting operations:

1. Storage of construction materials, debris, or excavated material.
2. Parking vehicles or equipment.
3. Vehicle traffic.
4. Erection of sheds or structures.
5. Excavation or other digging unless otherwise indicated.

C. Remove surplus soil and waste material including excess subsoil, unsuitable materials, trash, and debris and legally dispose of them off Owner's property unless otherwise indicated.

3.5 CLEANING AND FINISH GRADING

A. The work includes, but is not necessarily limited to, furnishing all materials, labor, and equipment for the preparation of topsoil, the cleaning and fine grading of planting areas in order to produce a proper planting bed for seed, sprigs, sod or plants.

B. GENERAL

1. Cleaning and finish grading is intended to be the final preparation of the site for the planting operation. This line item includes any and all work not previously specified that is necessary to ensure a smooth, debris free, even surface on which to plant. This section also includes tilling or disking to improve soil conditions in preparation for planting.
2. This section is intended to include all work to complete stone picking, final picking of twigs, removal of clearing debris that is still present, and removal of wind-blown debris of any form. All garbage, material scraps, stockpiles, gravel, rocks, or any unwanted litter or foreign matter shall be removed from the planting beds, and disposed of in accordance with all state, federal, and local laws. This line item is all encompassing and is intended to ensure no construction debris is to be found on the property. This will include removal of minor other construction spoil piles, and any other related construction debris or materials present on site.
3. Cleaning and fine grading will begin immediately following notification that the irrigation system is operative.
4. Cleaning and fine grading includes extensive grade checking with a surveyor's instrument and rod. All areas to be planted shall be checked by the Contractor for positive, continuous surface drainage. The Contractor shall demonstrate to the Landscape Architect and Owner that he has checked all grades and he is positive that no slow drainage areas, "bird baths" or puddles exist.

C. EQUIPMENT AND PERSONNEL

1. Equipment for rock removal shall be capable of picking rocks of three quarters (3/4") inch in diameter and larger.
2. Tilling the soil is best accomplished with a hand held power harrow.
3. Finish grading will require hand labor to be performed with landscape rakes, shovels, axes, etc.

D. CLEANING

1. The Contractor shall have all areas to be planted thoroughly scarified and loosened by disking, harrowing, or other suitable means to a minimum depth of four inches prior to finish grading. These areas shall be machine or hand worked as necessary to eliminate all lump and soil clods. Tillage shall include the removal of all equipment ruts and tracks, areas of compaction or erosion, and any other undesirable soil conditions that would prevent the proper preparation of a finely pulverized planting bed.
2. Tillage shall be accomplished only under proper soil conditions. The Landscape Architect may, at his discretion, request the cessation of the tillage operation during periods of severe drought, excessive soil moisture, or other unsatisfactory soil conditions. All haul roads shall be loosened and returned to plantable conditions.
3. All rocks, stones, sticks, brush, roots, and other objectionable materials which might interfere with the formation of a finely pulverized planting bed, impair planting or create future problems of maintenance shall be removed from the soil. All stone larger than ½" in diameter shall be removed from the top four inches of planting bed. Rock picking and debris removal shall continue after the application of fertilizer and/or lime until the particular area is acceptable to the Owner and Landscape Architect.

E. FINE GRADING

1. Areas to be planted shall be graded and floated to provide complete surface drainage of not less than three percent. All water-holding depressions and pockets shall be eliminated. Undulations and unsightly variations in grade that will not permit the use of normal mowing equipment without scalping or missing shall be removed so that proper use of such equipment may be had.
2. Areas to be planted shall also be finish graded to meet any walks, paths or other adjoining surfaces so that, after compaction, no water pockets or ridges remain. Ten feet around catch basins must have a minimum of three percent surface drainage.
3. Areas where sod will interface with pathways shall be fine graded so as to counter-sink the sod such that once sod is placed, it shall be at grade with the edge of pavement.
4. At any time during the fine grading process, the Landscape Architect reserves the right to make minor adjustments in the finish shaping at no extra cost to the Owner.

END OF SECTION

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32 91 13 SOIL PREPARATION

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JPD PROJECT NUMBER: 24012

DRAWN BY: EH | CHECKED BY: BA

DATE: 08/29/2025

SHEET NO.:

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SECTION 32 93 00

PLANTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Plants.
2. Tree stabilization.
3. Landscape edgings.
4. Warranty Period
5. Plant Maintenance Period

B. Related Requirements:
1. Section 32 01 00 Landscape Maintenance & Establishment
2. Section 32 84 00 Planting Irrigation
3. Section 32 91 13 Soil Preparation

1.3 DEFINITIONS

A. Backfill: The earth used to replace or the act of replacing earth in an excavation.

B. Balled and Burlapped Stock: Plants dug with firm, natural balls of earth in which they were grown, with a ball size not less than **diameter and depth recommended by ANSI Z60.1 for type and size of plant required**; wrapped with burlap, tied, rigidly supported, and drum laced with twine with the root flare visible at the surface of the ball as recommended by ANSI Z60.1.

C. Container-Grown Stock: Healthy, vigorous, well-rooted plants grown in a container, with a well-established root system reaching sides of container and maintaining a firm ball when removed from container. Container shall be rigid enough to hold ball shape and protect root mass during shipping and be sized according to ANSI Z60.1 for type and size of plant required.

D. Finish Grade: Elevation of finished surface of planting soil.

E. Pesticide: A substance or mixture intended for preventing, destroying, repelling, or mitigating a pest. Pesticides include insecticides, miticides, herbicides, fungicides, rodenticides, and molluscicides. They also include substances or mixtures intended for use as a plant regulator, defoliant, or desiccant. Some sources classify herbicides separately from pesticides.

F. Pests: Living organisms that occur where they are not desired or that cause damage to plants, animals, or people. Pests include insects, mites, grubs, mollusks (snails and slugs), rodents (gophers, moles, and mice), unwanted plants (weeds), fungi, bacteria, and viruses.

G. Planting Area: Areas to be planted.

H. Planting Soil: Existing, on-site soil; imported soil; or manufactured soil that has been modified with soil amendments and perhaps fertilizers to produce a soil mixture best for plant growth. See **Section 329115 "Soil Preparation"** for drawing designations for planting soils.

I. Plant; Plants; Plant Material: These terms refer to vegetation in general, including trees, shrubs, vines, ground covers, ornamental grasses, bulbs, corms, tubers, or herbaceous vegetation.

J. Root Flare: Also called "trunk flare." The area at the base of the plant's stem or trunk where the stem or trunk broadens to form roots; the area of transition between the root system and the stem or trunk.

K. Stem Girdling Roots: Roots that encircle the stems (trunks) of trees below the soil surface.

L. Subgrade: The surface or elevation of subsoil remaining after excavation is complete, or the top surface of a fill or backfill before planting soil is placed.

1.4 COORDINATION

A. Coordination with Turf Areas (Lawns): Plant trees, shrubs, and other plants after finish grades are established and before planting turf areas unless otherwise indicated.

1. When planting trees, shrubs, and other plants after planting turf areas, protect turf areas, and promptly repair damage caused by planting operations.

1.5 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at **Project site**.

1.6 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. Plant Materials: Include quantities, sizes, quality, and sources for plant materials.
2. Plant Photographs: Include color photographs in **digital** format of each required species and size of plant material as it will be furnished to Project. Take photographs from an angle depicting true size and condition of the typical plant to be furnished. Include a scale rod or other measuring device in each photograph. For species where more than **20** plants are required, include a minimum of **three** photographs showing the average plant, the best quality plant, and the worst quality plant to be furnished. Identify each photograph with the full scientific name of the plant, plant size, and name of the growing nursery.

B. Samples for Verification: For each of the following:

1. Trees and Shrubs: **Three** Samples of each variety and size delivered to site for review. Maintain approved Samples on-site as a standard for comparison.

2. Organic Mulch: **1-quart (1-L)** volume of each organic mulch required; in sealed plastic bags labeled with composition of materials by percentage of weight and source of mulch. Each Sample shall be typical of the lot of material to be furnished; provide an accurate representation of color, texture, and organic makeup.
3. Mineral Mulch: **2 lb (1.0 kg)** of each mineral mulch required, in sealed plastic bags labeled with source of mulch. Sample shall be typical of the lot of material to be delivered and installed on-site; provide an accurate indication of color, texture, and makeup of the material.
4. Edging Materials and Accessories: Manufacturer's standard size, to verify color selected.
5. Root Barrier: Width of panel by 12 inches (300 mm).

1.7 INFORMATIONAL SUBMITTALS

A. Qualification Data: For landscape Installer. Include list of similar projects completed by Installer demonstrating Installer's capabilities and experience. Include project names, addresses, and year completed, and include names and addresses of owners' contact persons.

B. Product Certificates: For each type of manufactured product, from manufacturer, and complying with the following:

1. Manufacturer's certified analysis of standard products.
2. Analysis of other materials by a recognized laboratory made according to methods established by the Association of Official Analytical Chemists, where applicable.

C. Pesticides and Herbicides: Product label and manufacturer's application instructions specific to Project.

1.8 CLOSEOUT SUBMITTALS

A. Maintenance Data: Recommended procedures to be established by Owner for maintenance of plants during a calendar year. Submit before expiration of required maintenance periods.

1.9 QUALITY ASSURANCE

A. Installer Qualifications: A qualified landscape installer whose work has resulted in successful establishment of plants.
1. Experience: **Three** years' experience in landscape installation in addition to requirements in Section 014000 "Quality Requirements."
2. Installer's Field Supervision: Require Installer to maintain an experienced full-time supervisor on Project site when work is in progress.

3. Pesticide Applicator: State licensed, commercial.

B. Provide quality, size, genus, species, and variety of plants indicated, complying with applicable requirements in ANSI Z60.1.

C. Measurements: Measure according to ANSI Z60.1. Do not prune to obtain required sizes.

1. Trees and Shrubs: Measure with branches and trunks or canes in their normal position. Take height measurements from or near the top of the root flare for field-grown stock and container-grown stock. Measure main body of tree or shrub for height and spread; do not

measure branches or roots tip to tip. Take caliper measurements 6 inches (150 mm) above the root flare for trees up to 4-inch (100-mm) caliper size, and 12 inches (300 mm) above the root flare for larger sizes.
2. Other Plants: Measure with stems, petioles, and foliage in their normal position.

D. Plant Material Observation: Landscape Architect may observe plant material either at place of growth or at site before planting for compliance with requirements for genus, species, variety, cultivar, size, and quality. Landscape Architect may also observe trees and shrubs further for size and condition of balls and root systems, pests, disease symptoms, injuries, and latent defects and may reject unsatisfactory or defective material at any time during progress of work. Remove rejected trees or shrubs immediately from Project site.

1. Notify Landscape Architect of sources of planting materials 30 (thirty) days in advance of delivery to site.

1.10 DELIVERY, STORAGE, AND HANDLING

A. Packaged Materials: Deliver packaged materials in original, unopened containers showing weight, certified analysis, name and address of manufacturer, and indication of compliance with state and Federal laws if applicable.

B. Bulk Materials:

1. Do not dump or store bulk materials near structures, utilities, walkways and pavements, or on existing turf areas or plants.
2. Provide erosion-control measures to prevent erosion or displacement of bulk materials; discharge of soil-bearing water runoff; and airborne dust reaching adjacent properties, water conveyance systems, or walkways.
3. Accompany each delivery of bulk materials with appropriate certificates.

C. Do not prune trees and shrubs before delivery. Protect bark, branches, and root systems from sun scald, drying, wind burn, sweating, whipping, and other handling and tying damage. Do not bend or bind-tie trees or shrubs in such a manner as to destroy their natural shape. Provide protective covering of plants during shipping and delivery. Do not drop plants during delivery and handling.

D. Handle planting stock by root ball.

E. Wrap trees and shrubs with burlap fabric over trunks, branches, stems, twigs, and foliage to protect from wind and other damage during digging, handling, and transportation.

F. Deliver plants after preparations for planting have been completed, and install immediately. If planting is delayed more than six hours after delivery, set plants and trees in their appropriate aspect (sun, filtered sun, or shade), protect from weather and mechanical damage, and keep roots moist.

1. Heel-in bare-root stock. Soak roots that are in less than moist condition in water for two hours. Reject plants with dry roots.
2. Set balled stock on ground and cover ball with soil, peat moss, sawdust, or other acceptable material.
3. Do not remove container-grown stock from containers before time of planting.

4. Water root systems of plants stored on-site deeply and thoroughly with a fine-mist spray. Water as often as necessary to maintain root systems in a moist, but not overly wet condition.

1.11 FIELD CONDITIONS

A. Field Measurements: Verify actual grade elevations, service and utility locations, irrigation system components, and dimensions of plantings and construction contiguous with new plantings by field measurements before proceeding with planting work.

B. Weather Limitations: Proceed with planting only when existing and forecasted weather conditions permit planting to be performed when beneficial and optimum results may be obtained. Apply products during favorable weather conditions according to manufacturer's written instructions and warranty requirements.

1.12 WARRANTY

A. Special Warranty: Installer agrees to repair or replace plantings and accessories that fail in materials, workmanship, or growth within specified warranty period. Contractor shall submit in writing a request for the landscape architect to perform a site inspection and acceptance for this warranty period to begin.

1. Failures include, but are not limited to, the following:

a. Death and unsatisfactory health or growth, except for defects resulting from abuse, lack of adequate maintenance, or neglect by Owner.
b. Structural failures including plantings falling or blowing over.
c. Faulty performance of **tree stabilization**, **edgings and tree grates**.

2. Warranty Periods: From date of Substantial Completion as accepted by landscape architect in writing.

a. Trees, Shrubs, Vines, and Ornamental Grasses: **365 Days**.
b. Ground Covers, Biennials, Perennials, and Other Plants: **365 Days**.
c. Annuals: **Two** months.

3. Include the following remedial actions as a minimum:

a. Immediately remove dead plants and replace unless required to plant in the succeeding planting season.
b. Replace plants that are more than 25 percent dead or in an unhealthy condition at time of Substantial Completion and end of warranty period.
c. A limit of one replacement of each plant is required except for losses or replacements due to failure to comply with requirements.
d. Provide extended warranty for period equal to original warranty period, for replaced plant material.

4. Incorrect Materials:
a. During Warranty Period, replace at no cost to the Owner, plants revealed as being untrue to name.
b. Provide replacements of size and quality to match the planted materials at the time the mistake is discovered.

PART 2 - PRODUCTS

2.1 PLANT MATERIAL

A. General: Furnish nursery-grown plants true to genus, species, variety, cultivar, stem form, shearing, and other features indicated in Plant List, Plant Schedule, or Plant Legend indicated on Drawings and complying with ANSI Z60.1; and with healthy root systems developed by transplanting or root pruning. Provide well-shaped, fully branched, healthy, vigorous stock, densely foliated when in leaf and free of disease, pests, eggs, larvae, and defects such as knots, sun scald, injuries, abrasions, and disfigurement.

1. Trees with damaged, crooked, or multiple leaders; tight vertical branches where bark is squeezed between two branches or between branch and trunk ("included bark"); crossing trunks; cut-off limbs more than 3/4 inch (19 mm) in diameter; or with stem girdling roots are unacceptable.
2. Collected Stock: Do not use plants harvested from the wild, from native stands, from an established landscape planting, or not grown in a nursery unless otherwise indicated.

B. Provide plants of sizes, grades, and ball or container sizes complying with ANSI Z60.1 for types and form of plants required. Plants of a larger size may be used if acceptable to Architect, with a proportionate increase in size of roots or balls.

C. Root-Ball Depth: Furnish trees and shrubs with root balls measured from top of root ball, which begins at root flare according to ANSI Z60.1. Root flare shall be visible before planting.

D. Labeling: Label **at least one** plant of each variety, size, and caliper with a securely attached, waterproof tag bearing legible designation of common name and full scientific name, including genus and species. Include nomenclature for hybrid, variety, or cultivar, if applicable for the plant.

E. If formal arrangements or consecutive order of plants is indicated on Drawings, select stock for uniform height and spread, and number the labels to assure symmetry in planting.

F. **Annuals** Provide healthy, disease-free plants of species and variety shown or listed, with well-established root systems reaching to sides of the container to maintain a firm ball, but not with excessive root growth encircling the container. Provide only plants that are acclimated to outdoor conditions before delivery.

2.2 FERTILIZERS

A. Planting Tablets: Tightly compressed chip-type, long-lasting, slow-release, commercial-grade planting fertilizer in tablet form. Tablets shall break down with soil bacteria, converting nutrients into a form that can be absorbed by plant roots.

1. Size: **5-gram** tablets.
2. Nutrient Composition: 20 percent nitrogen, 10 percent phosphorous, and 5 percent potassium, by weight plus micronutrients.

2.3 MULCHES

A. Organic Mulch: Free from deleterious materials and suitable as a top dressing of trees and shrubs, consisting of one of the following:

1. Type: **Pine needles**.
2. Size Range: **3 inches minimum.**
3. Color: Natural.

2.4 PESTICIDES

A. General: Pesticide registered and approved by the EPA, acceptable to authorities having jurisdiction, and of type recommended by manufacturer for each specific problem and as required for Project conditions and application. Do not use restricted pesticides unless authorized in writing by authorities having jurisdiction.

B. Pre-Emergent Herbicide (Selective and Nonselective): Effective for controlling the germination or growth of weeds within planted areas at the soil level directly below the mulch layer.

C. Post-Emergent Herbicide (Selective and Nonselective): Effective for controlling weed growth that has already germinated.

2.5 TREE-STABILIZATION MATERIALS

A. Trunk-Stabilization Materials:
1. Flexible Ties: Wide rubber or elastic bands or straps of length required to reach stakes or **turnbuckles**, or **compression springs**.
2. Proprietary Staking-and-Guying Devices: Proprietary stake or anchor and adjustable tie systems to secure each new planting by plant stem; sized as indicated and according to manufacturer's written recommendations.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas to receive plants, with Installer present, for compliance with requirements and conditions affecting installation and performance of the Work.

1. Verify that no foreign or deleterious material or liquid such as paint, paint washout, concrete slurry, concrete layers or chunks, cement, plaster, oils, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, or acid has been deposited in soil within a planting area.
2. Verify that plants and vehicles loaded with plants can travel to planting locations with adequate overhead clearance.
3. Suspend planting operations during periods of excessive soil moisture until the moisture content reaches acceptable levels to attain the required results.
4. Uniformly moisten excessively dry soil that is not workable or which is dusty.

B. If contamination by foreign or deleterious material or liquid is present in soil within a planting area, remove the soil and contamination and replace with new planting soil.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Protect structures, utilities, sidewalks, pavements, and other facilities and turf areas and existing plants from damage caused by planting operations.

B. Install erosion-control measures to prevent erosion or displacement of soils and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways.

C. Lay out individual tree and shrub locations and areas for multiple plantings. Stake locations, outline areas, adjust locations when requested, and obtain Landscape Architect's acceptance of layout before excavating or planting. Make minor adjustments as required.

D. Lay out plants at locations directed by Landscape Architect. Stake locations of individual trees and shrubs and outline areas for multiple plantings.

3.3 PLANTING AREA ESTABLISHMENT

A. General: Prepare planting area for soil placement and mix planting soil according to **Section 329115 "Soil Preparation."**

B. Placing Planting Soil: **Blend planting soil in place**.

C. Before planting, obtain Landscape Architect's acceptance of finish grading; restore planting areas if eroded or otherwise disturbed after finish grading.

3.4 EXCAVATION FOR TREES AND SHRUBS

A. Planting Pits and Trenches: Excavate circular planting pits.

1. Excavate planting pits with sides sloping inward at a 45-degree angle. Excavations with vertical sides are unacceptable. Trim perimeter of bottom leaving center area of bottom raised slightly to support root ball and assist in drainage away from center. Do not further disturb base. Ensure that root ball will sit on undisturbed base soil to prevent settling. Scarify sides of planting pit smeared or smoothed during excavation.
2. Excavate approximately three times as wide as ball diameter for **balled and burlapped** and **container-grown** stock.
3. Do not excavate deeper than depth of the root ball, measured from the root flare to the bottom of the root ball.
4. If area under the plant was initially dug too deep, add soil to raise it to the correct level and thoroughly tamp the added soil to prevent settling.
5. Maintain angles of repose of adjacent materials to ensure stability. Do not excavate subgrades of adjacent paving, structures, hardscapes, or other new or existing improvements.
6. Maintain supervision of excavations during working hours.
7. Keep excavations covered or otherwise protected **when unattended by Installer's personnel**.

B. Backfill Soil: Subsoil and topsoil removed from excavations **may be** used as backfill soil unless otherwise indicated.

C. Obstructions: Notify Landscape Architect if unexpected rock or obstructions detrimental to trees or shrubs are encountered in excavations.

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THE NEW PALAFOX
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32 93 00 PLANTS

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012
DRAWN BY: EH
CHECKED BY: BA
DATE: 08/29/2025
SHEET NO.: L10.15

100% CONSTRUCTION DOCUMENTS - NOT FOR CONSTRUCTION

1. Hardpan Layer: Drill 6-inch- (150-mm-) diameter holes, 24 inches (600 mm) apart, into free-draining strata or to a depth of 10 feet (3 m), whichever is less, and backfill with free-draining material.

D. Drainage: Notify Landscape Architect if subsoil conditions evidence unexpected water seepage or retention in tree or shrub planting pits.

E. Fill excavations with water and allow to percolate away before positioning trees and shrubs.

3.5 TREE, SHRUB, AND VINE PLANTING

A. Inspection: At time of planting, verify that root flare is visible at top of root ball according to ANSI Z60.1. If root flare is not visible, remove soil in a level manner from the root ball to where the top-most root emerges from the trunk. After soil removal to expose the root flare, verify that root ball still meets size requirements.

B. Roots: Remove stem girdling roots and kinked roots. Remove injured roots by cutting cleanly; do not break.

C. Balled and Burlapped Stock: Set each plant plumb and in center of planting pit or trench with root flare **1 inch (50 mm) above** adjacent finish grades for shrubs and vines, and 3-4 inches above adjacent grade for trees.

1. Backfill: Planting soil per soil preparation specfications. **For trees, use excavated soil for backfill.**
2. After placing some backfill around root ball to stabilize plant, carefully cut and remove burlap, rope, and wire baskets from tops of root balls and from sides, but do not remove from under root balls. Remove pallets, if any, before setting. Do not use planting stock if root ball is cracked or broken before or during planting operation.
3. Backfill around root ball in layers, tamping to settle soil and eliminate voids and air pockets. When planting pit is approximately one-half filled, water thoroughly before placing remainder of backfill. Repeat watering until no more water is absorbed.
4. Place planting tablets equally distributed around each planting pit when pit is approximately one-half filled. Place tablets beside the root ball about 1 inch (25 mm) from root tips; do not place tablets in bottom of the hole.
   a. Quantity: **As indicated on Drawings**.
5. Continue backfilling process. Water again after placing and tamping final layer of soil.

D. **Container-Grown** Stock: Set each plant plumb and in center of planting pit or trench with root flare **1 inch above** adjacent finish grades and 3-4 inches above adjacent grades for trees..

1. Backfill: Planting soil. **For trees, use excavated soil for backfill.**
2. Carefully remove root ball from container without damaging root ball or plant.
3. Backfill around root ball in layers, tamping to settle soil and eliminate voids and air pockets. When planting pit is approximately one-half filled, water thoroughly before placing remainder of backfill. Repeat watering until no more water is absorbed.
4. Place planting tablets equally distributed around each planting pit when pit is approximately one-half filled. Place tablets beside the root ball about 1 inch (25 mm) from root tips; do not place tablets in bottom of the hole.
   a. Quantity: **As indicated on Drawings**.
5. Continue backfilling process. Water again after placing and tamping final layer of soil.

E. Slopes: When planting on slopes, set the plant so the root flare on the uphill side is flush with the surrounding soil on the slope; the edge of the root ball on the downhill side will be above the surrounding soil. Apply enough soil to cover the downhill side of the root ball.

3.6 TREE, SHRUB, AND VINE PRUNING

A. Remove only dead, dying, or broken branches. Do not prune for shape.

B. Do not apply pruning paint to wounds.

3.7 TREE STABILIZATION

A. Trunk Stabilization by Staking and Guying: Install trunk stabilization as follows unless otherwise indicated on Drawings. Stake and guy trees more than 14 feet (4.2 m) in height and more than 3 inches (75 mm) in caliper unless otherwise indicated.

1. Site-Fabricated, Staking-and-Guying Method: Install no fewer than three guys spaced equally around tree.
   a. Securely attach guys to stakes 30 inches (760 mm) long, driven to grade. Adjust spacing to avoid penetrating root balls or root masses. Provide **turnbuckle** or **compression spring** for each guy wire and tighten securely.
   b. Support trees with bands of flexible ties at contact points with tree trunk and reaching to **turnbuckle** or **compression spring**. Allow enough slack to avoid rigid restraint of tree.
2. Proprietary Staking and Guying Device: Install staking and guying system sized and positioned as recommended by manufacturer unless otherwise indicated and according to manufacturer's written instructions.

3.8 GROUND COVER AND PLANT PLANTING

A. Set out and space ground cover and plants other than trees, shrubs, and vines **as indicated on Drawings** in even rows with triangular spacing.

B. Use planting soil for backfill.

C. Dig holes large enough to allow spreading of roots.

D. For rooted cutting plants supplied in flats, plant each in a manner that minimally disturbs the root system but to a depth not less than two nodes.

E. Work soil around roots to eliminate air pockets and leave a slight saucer indentation around plants to hold water.

F. Water thoroughly after planting, taking care not to cover plant crowns with wet soil.

G. Protect plants from hot sun and wind; remove protection if plants show evidence of recovery from transplanting shock.

3.9 PLANTING AREA MULCHING

A. Mulch backfilled surfaces of planting areas and other areas indicated.

1. Trees and Treelike Shrubs in Turf Areas: Apply organic mulch ring of 3-inch average thickness, with 36-inch radius around trunks or stems. Do not place mulch within 6 inches of trunks or stems.
2. Organic Mulch in Planting Areas: Apply 3-inch average thickness of organic mulch over whole surface of planting area, and finish level with adjacent finish grades. Do not place mulch within 3 inches of trunks or stems.

3.10 EDGING INSTALLATION

A. Shovel-Cut Edging: Separate mulched areas from turf areas **curbs and paving** with a 45-degree, 4- to 6-inch- deep, shovel-cut edge**.**

3.11 PRE-ACCEPTANCE MAINTENANCE PERIOD

A. Contractor shall maintain all landscape in accordance with Section 32 01 00 Landscape Maintenance & Establishment until project final acceptance.

3.12 PLANT MAINTENANCE PERIOD

A. Maintain plantings by pruning, cultivating, watering, weeding, fertilizing, mulching, restoring planting saucers, adjusting and repairing tree-stabilization devices, resetting to proper grades or vertical position, and performing other operations as required to establish healthy, viable plantings for a period of **2 YEARS** from project final acceptance.

B. See **Section 32 01 00 Landscape Maintenance & Establishment**.

C. The Contractor shall begin maintenance immediately after each plant is installed and shall continue until final acceptance of the work in total by the Owner.

D. Contractor shall provide maintenance by skilled employees of landscape installer.

E. Fill in, as necessary, soil subsidence that may occur because of settling or other processes. Replace mulch materials damaged or lost in areas of subsidence until the end of the Maintenance Period.

F. Apply treatments as required to keep plant materials, planted areas, and soils free of pests and pathogens or disease until the end of the Maintenance Period. Use integrated pest management practices when possible, to minimize use of pesticides and reduce hazards. Treatments include physical controls such as hosing off foliage, mechanical controls such as traps, and biological control agents.

G. Maintenance of plantings shall include:

1. Watering: The root system of all plants shall be watered by the Contractor at such intervals as to keep the surrounding soil in the best condition for promotion of root and plant growth.
2. Pruning: Remove dead or dying branches, and sprouts.
3. Weeding: Remove all weeds from plant areas.
4. Fertilizing.
5. Pest control.
6. Replacement of damaged or unhealthy plants.
7. Mulching: Maintain mulch depth.
8. Restoring planting saucers.
9. Tightening, repairing, or replacing tree stakes and wrapping.
10. Resetting to proper grades or vertical position.
11. Spraying or treating as required to keep trees and shrubs free of insects and disease.
12. General site cleanup
13. Performing other operations as required to establish healthy, viable plantings.

3.13 PESTICIDE APPLICATION

A. Apply pesticides and other chemical products and biological control agents according to authorities having jurisdiction and manufacturer's written recommendations. Coordinate applications with Owner's operations and others in proximity to the Work. Notify Owner before each application is performed.

B. Contractor shall apply treatments as required to keep plant materials, planted areas, and soils free of pests and pathogens or disease.

C. Pre-Emergent Herbicides (Selective and Nonselective): Apply to tree, shrub, and ground-cover areas according to manufacturer's written recommendations. Do not apply to seeded areas.

D. Post-Emergent Herbicides (Selective and Nonselective): Apply only as necessary to treat already-germinated weeds and according to manufacturer's written recommendations.

E. Any Contractor applying pesticides must have a Commercial Contractor's Pesticide Applicator's License.

3.14 REPAIR AND REPLACEMENT

A. General: Repair or replace existing or new trees and other plants that are damaged by construction operations.

1. Submit details of proposed pruning and repairs.
2. Perform repairs of damaged trunks, branches, and roots within 24 hours, if approved.
3. Replace trees and other plants that cannot be repaired and restored to full-growth status, as determined by Landscape Architect.

B. Planting areas and plants shall be protected by the Contractor at all times against trespassing and damages of any kind for the duration of the maintenance period. If any plants become damaged or injured, they shall be treated or replaced by the Contractor as directed by the Owner at no additional cost to the Owner. No work shall be done by the Contractor within, adjacent to, or over any plant or planting area without proper safeguards and protection of the plant material.

C. Contractor shall protect plants from damage due to landscape operations and operations of other contractors and trades. Maintain protection during installation and maintenance periods. Treat, repair, or replace damaged plantings at no additional cost to Owner.

D. Remove and replace trees or other plants that are more than **25** percent dead or in an unhealthy condition at time of Substantial Completion or **before the end of the corrections period** or are damaged during construction operations that Landscape Architect determines are incapable of restoring to normal growth pattern.

1. Provide new trees of same size as those being replaced for each tree.
2. Species of Replacement Trees: **Same species being replaced**

E. Plant Replacement
1. During the installation, prior to material completion, any dead or dying plants shall be replaced as part of the Contract. Any delay in replacement must be approved by the Design Professional.
2. During and at the end of the **2 Year** Warranty Period, the Contractor shall replace, without cost to the Owner, and within 30 days of notification by the Project Manager all Contractor furnished plant materials which are dead or are not in a vigorous, thriving condition. Replacements shall match adjacent specimens of the same species and cultivar and shall be subject to selection in the field by the Design Professional prior to digging. Replacements shall be subject to all requirements previously stated in these specifications.

F. The Contractor shall make all necessary repairs to grades, lawns, plantings, and paving as required because of plant replacements. Such repairs shall be done at no extra cost to the Owner.

G. The acceptance of all replacement plants by the Design Professional at the end of the Warranty Period terminates the Contractor's responsibility for such. In the event that a replacement plant dies, the Project Manager may elect a subsequent substitution.

H. Replacement plants shall be guaranteed for a one **1 Year** period from the date of replacement, NOT from the date of original planting.

I. Soil Preparation/Excavation Repairs
1. During the **2 Year** Warranty Period, the Contractor shall be responsible for correcting any excessive settling or poor drainage areas directly attributable to Contractor's work.

3.15 CLEANING AND PROTECTION

A. During planting, keep adjacent paving and construction clean and work area in an orderly condition. Clean wheels of vehicles before leaving site to avoid tracking soil onto roads, walks, or other paved areas.

B. Remove surplus soil and waste material including excess subsoil, unsuitable soil, trash, and debris and legally dispose of them off Owner's property.

C. Protect plants from damage due to landscape operations and operations of other contractors and trades. Maintain protection during installation and maintenance periods. Treat, repair, or replace damaged plantings.

D. After installation and before **Substantial Completion**, remove nursery tags, nursery stakes, tie tape, labels, wire, burlap, and other debris from plant material, planting areas, and Project site.

E. At time of Substantial Completion, verify that irrigation is in good working order. Replace improperly functioning irrigation components.

END OF SECTION

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32 93 00 PLANTS-CONT

SIGNATURE BLOCK

REV	ISSUE PURPOSE / DATE

JPD PROJECT NUMBER: 24012
DRAWN BY: EH
CHECKED BY: BA
DATE: 08/29/2025
SHEET NO.: L10.16

100% CONSTRUCTION DOCUMENTS - NOT FOR CONSTRUCTION