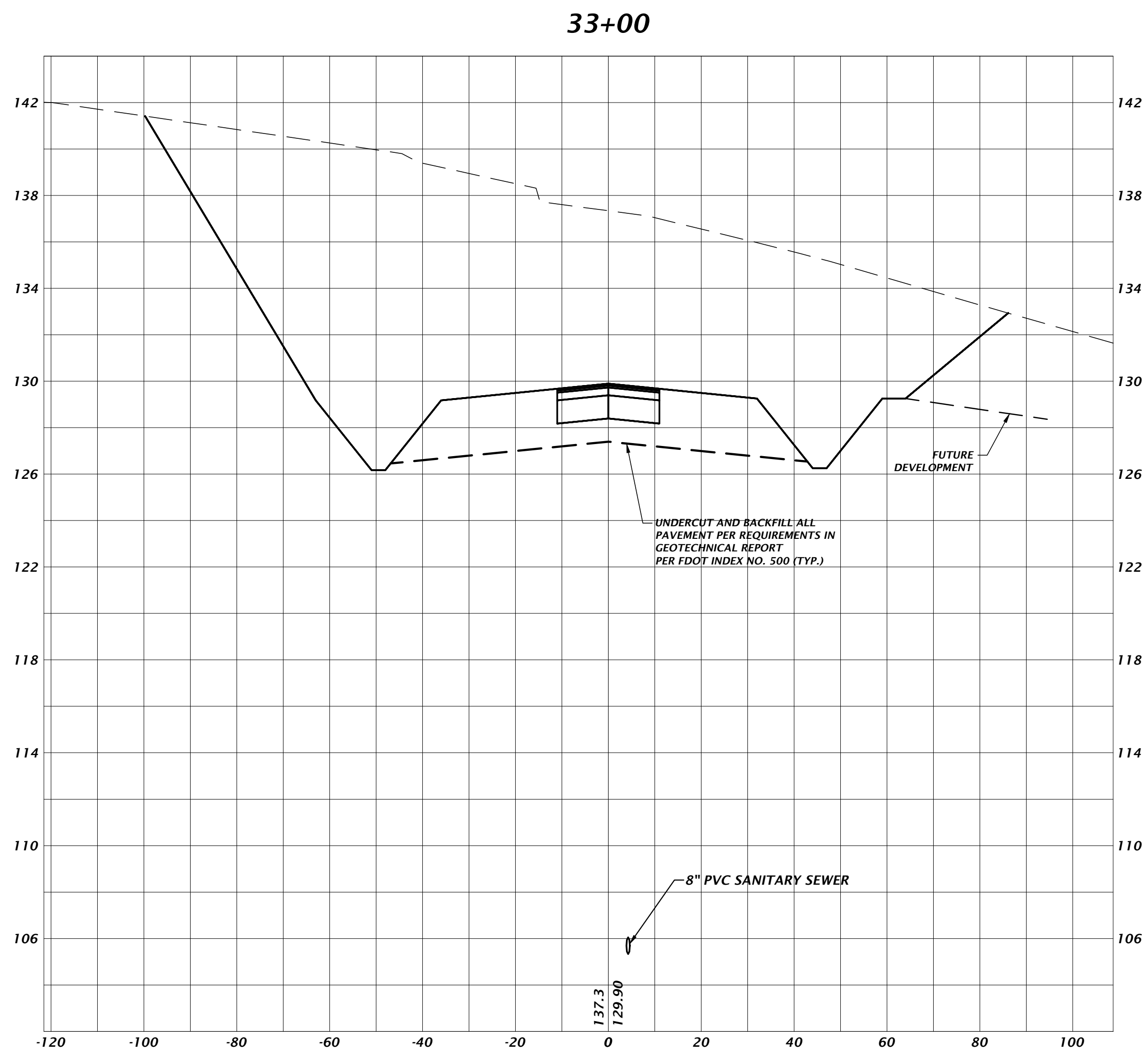
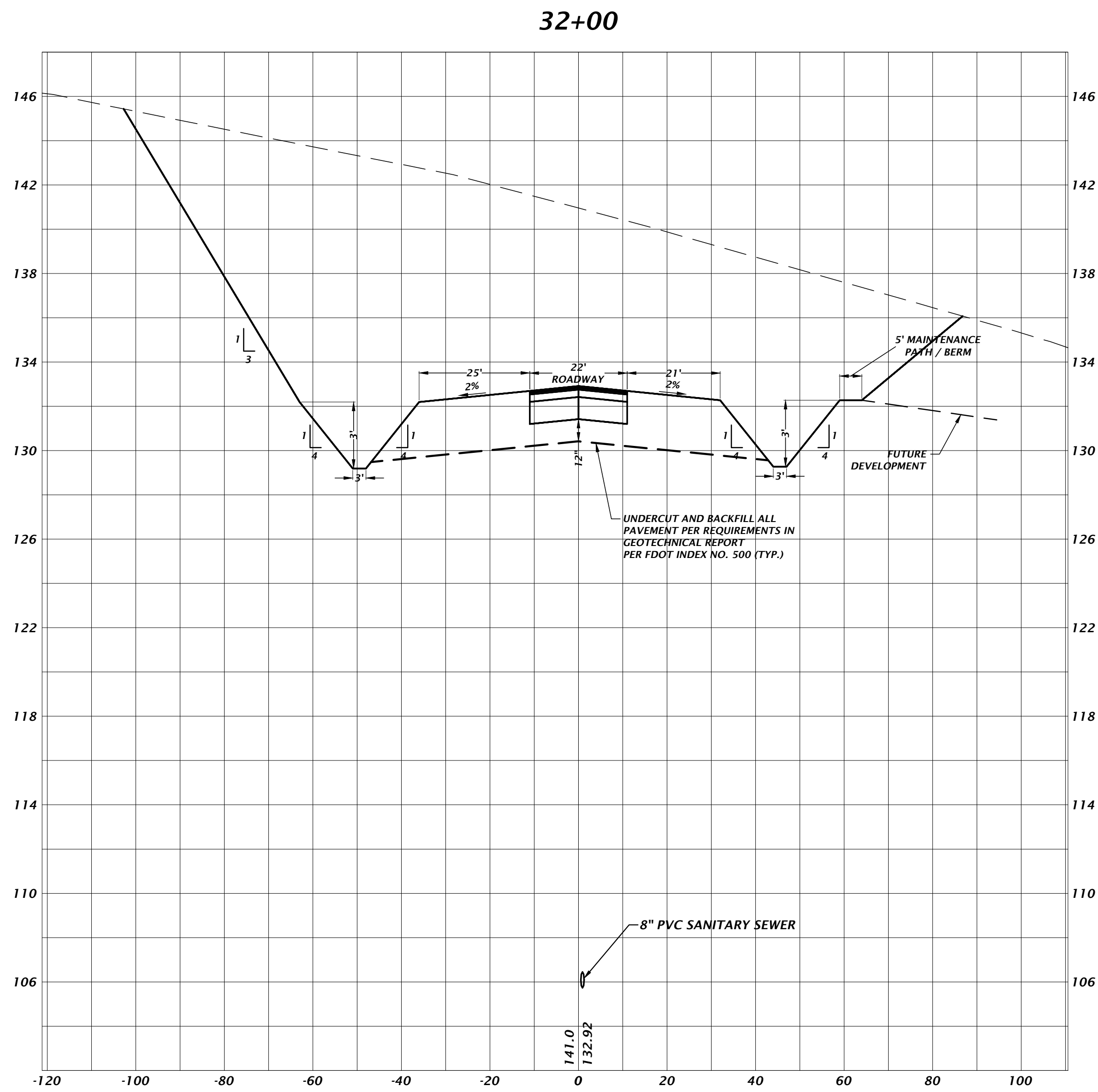


ANY MODIFICATIONS TO THESE PLANS OR REUSE OF THESE PLANS MUST BE APPROVED BY AND SIGNED BY THE ARCHITECT

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Title: 15-0401-0000
Date: 24-2015-0000
Author: J. A. Flegert
Project: 15-0401-0000
Sheet: 15-0401-0000



DRAWN BY: J. A. FLEGERT
DATE: FEBRUARY 25, 2016
PROPOSAL NO.: 15-0401

101 NE 1st Avenue
Ocala, Florida 34470
(352) 414-4827 / (850) 351-2478
www.kcmw-inc.com
est. 1988 FLORIDA
CA-5075

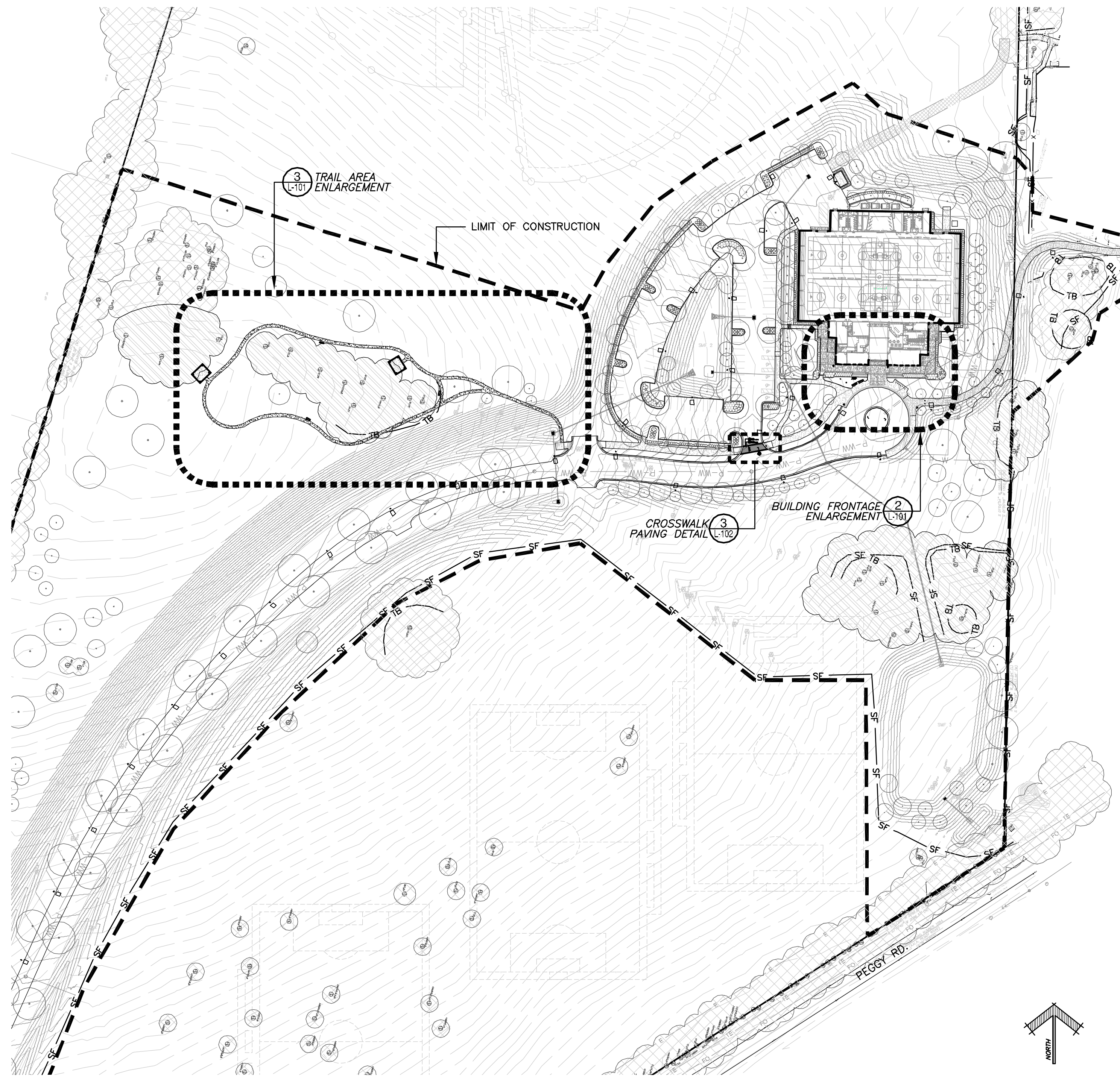
CHW
Professional Consultants

PZB SUBMITTAL
SOUTH ENTRANCE ROAD CROSS SECTIONS
CITY OF ALACHUA
LEGACY PARK - PHASE 1
ALACHUA, FLORIDA

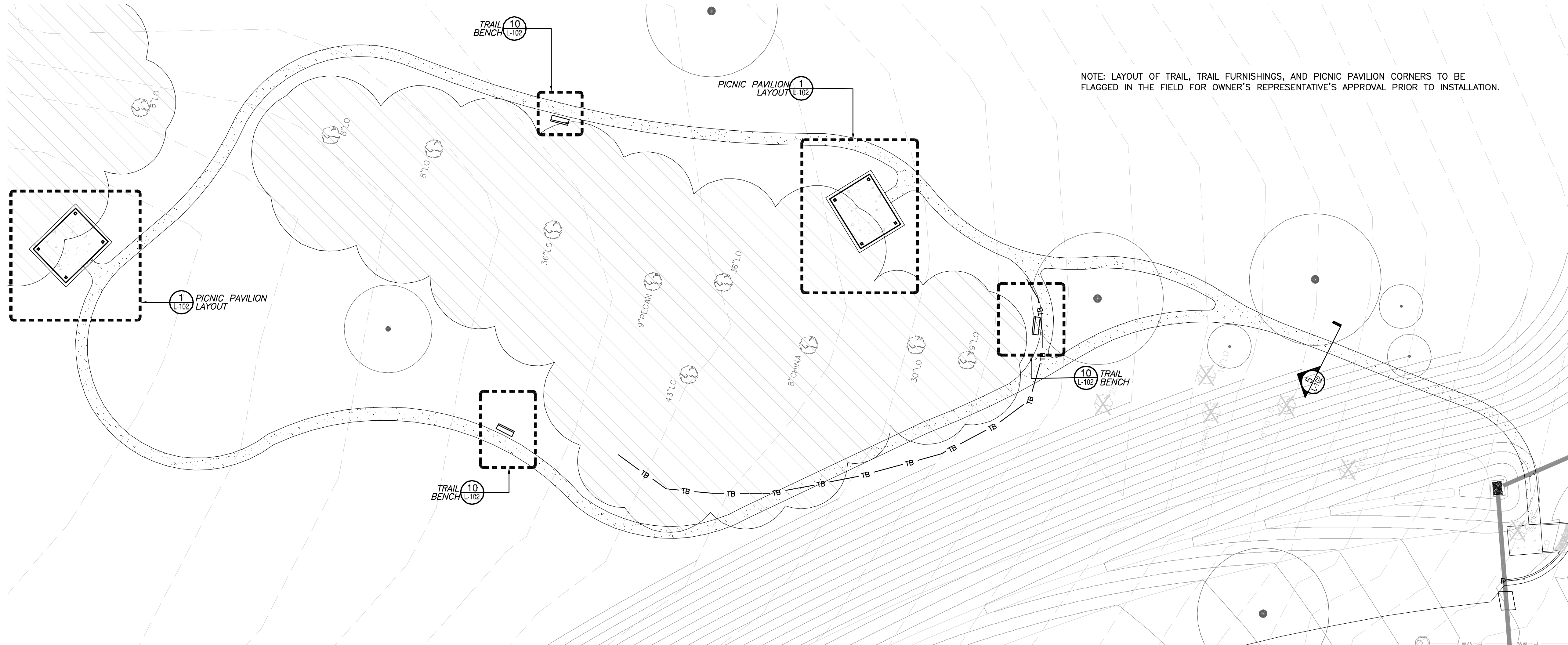
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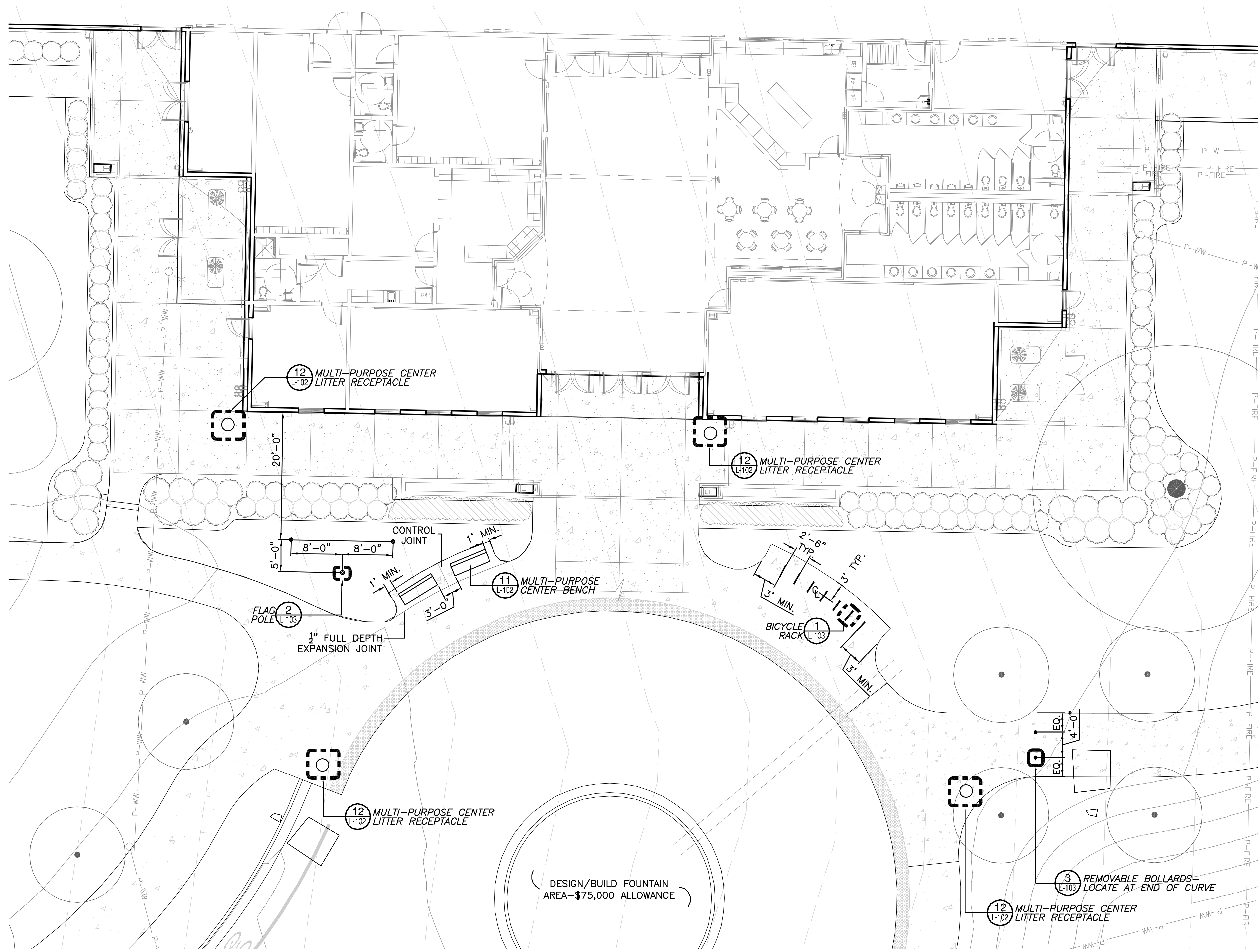
ANY MODIFICATIONS TO THESE PLANS OR RE-USE OF THESE PLANS MUST BE APPROVED BY AND SIGNED BY THE ARCHITECT



1 HARDSCAPE ENLARGEMENTS
1" = 100'



3 TRAIL AREA ENLARGEMENT
1" = 20'



2 BUILDING FRONTAGE ENLARGEMENT
1" = 10'

NOTE: LAYOUT OF TRAIL, TRAIL FURNISHINGS, AND PICNIC PAVILION CORNERS TO BE FLAGGED IN THE FIELD FOR OWNER'S REPRESENTATIVE'S APPROVAL PRIOR TO INSTALLATION.

CITY OF ALACHUA
LEGACY PARK
MULTI-PURPOSE CENTER & RELATED FACILITIES
ALACHUA, FLORIDA

DRAWN BY:
CEMBY

DATE:
FEBRUARY 22, 2016

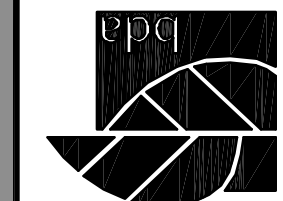
PROPOSAL NO.:
15-040

PZB SUBMITTAL
HARDSCAPE
PLAN

REVISIONS
DATE:
LANDSCAPE
ARCHITECT'S SEAL

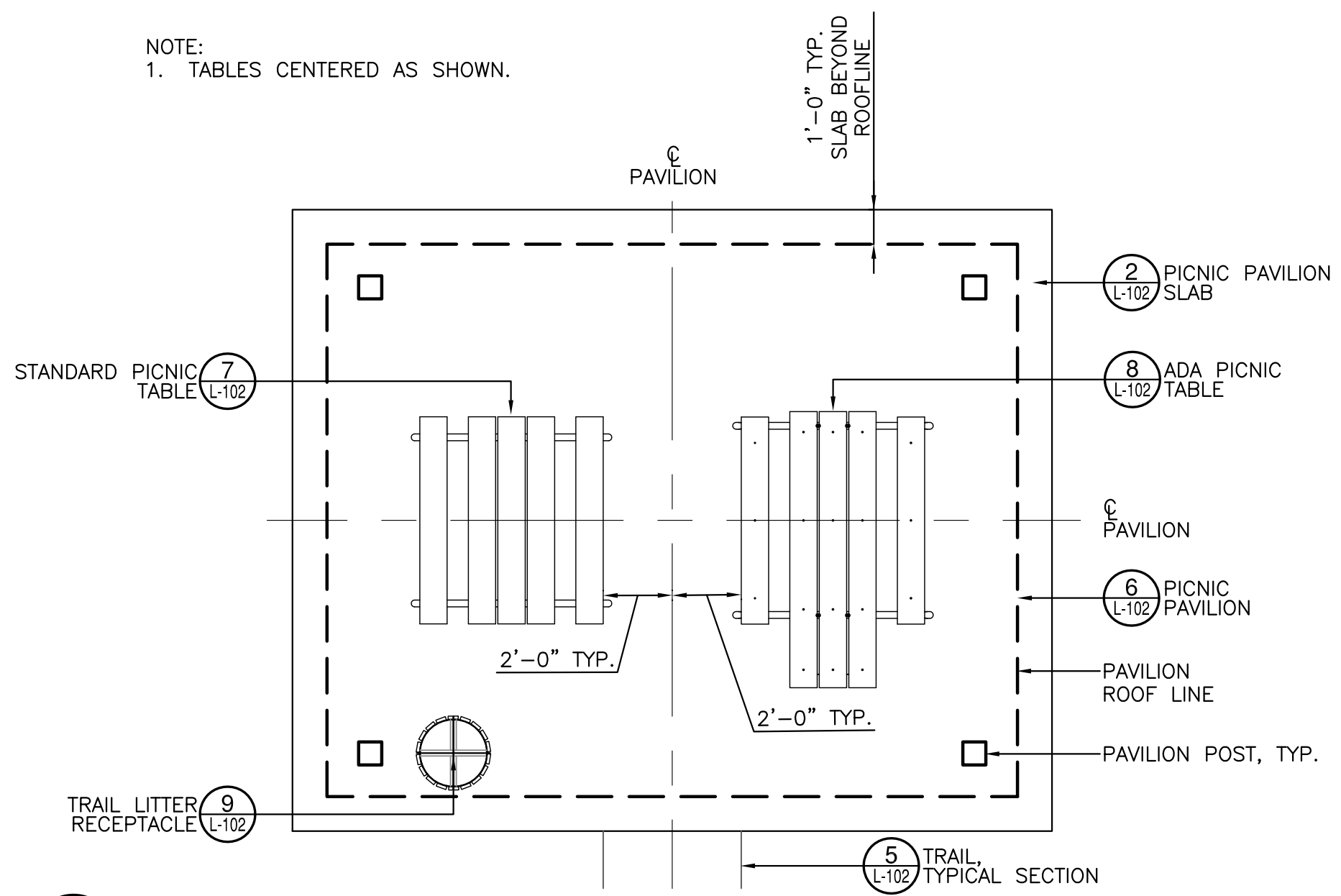
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L-101

BDA No. 15-088



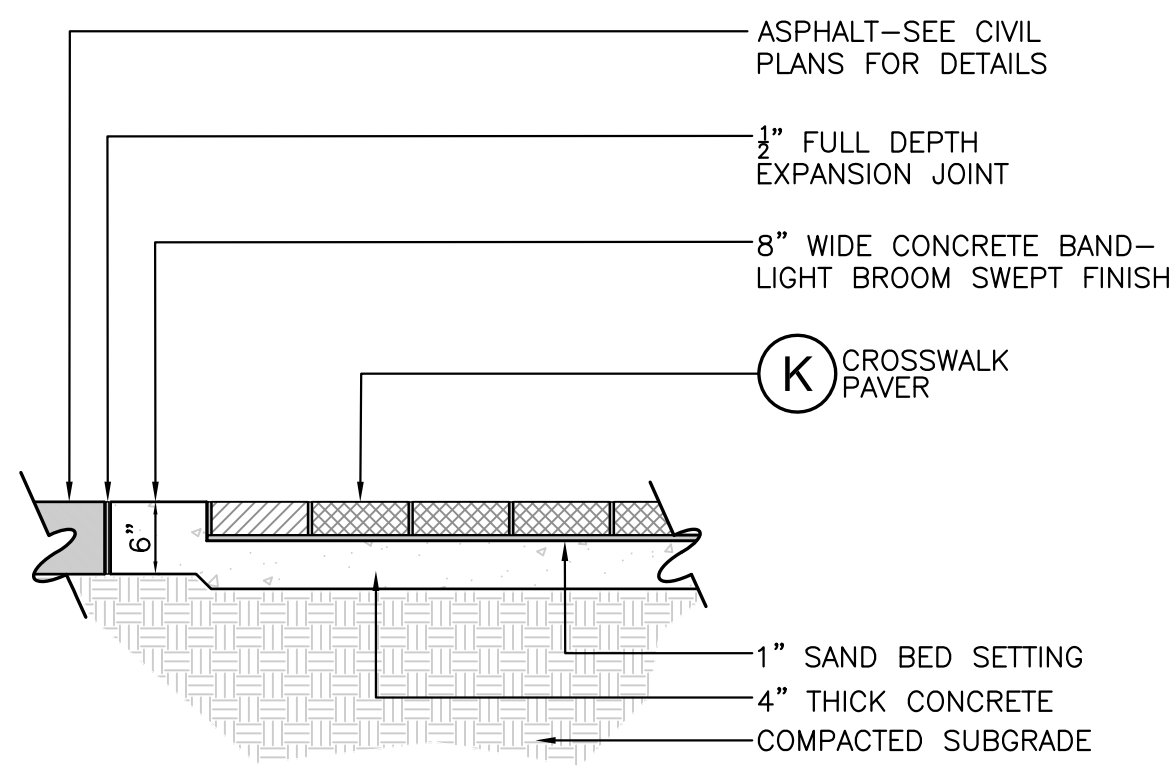
Buford Davis + Associates
Landscape Architects and Planners
2406 NW 43rd Street
Gainesville, FL 32608
352.373.6407 FAX
352.373.6407 FAX

NOTE:
1. TABLES CENTERED AS SHOWN.



1 PICNIC PAVILION LAYOUT

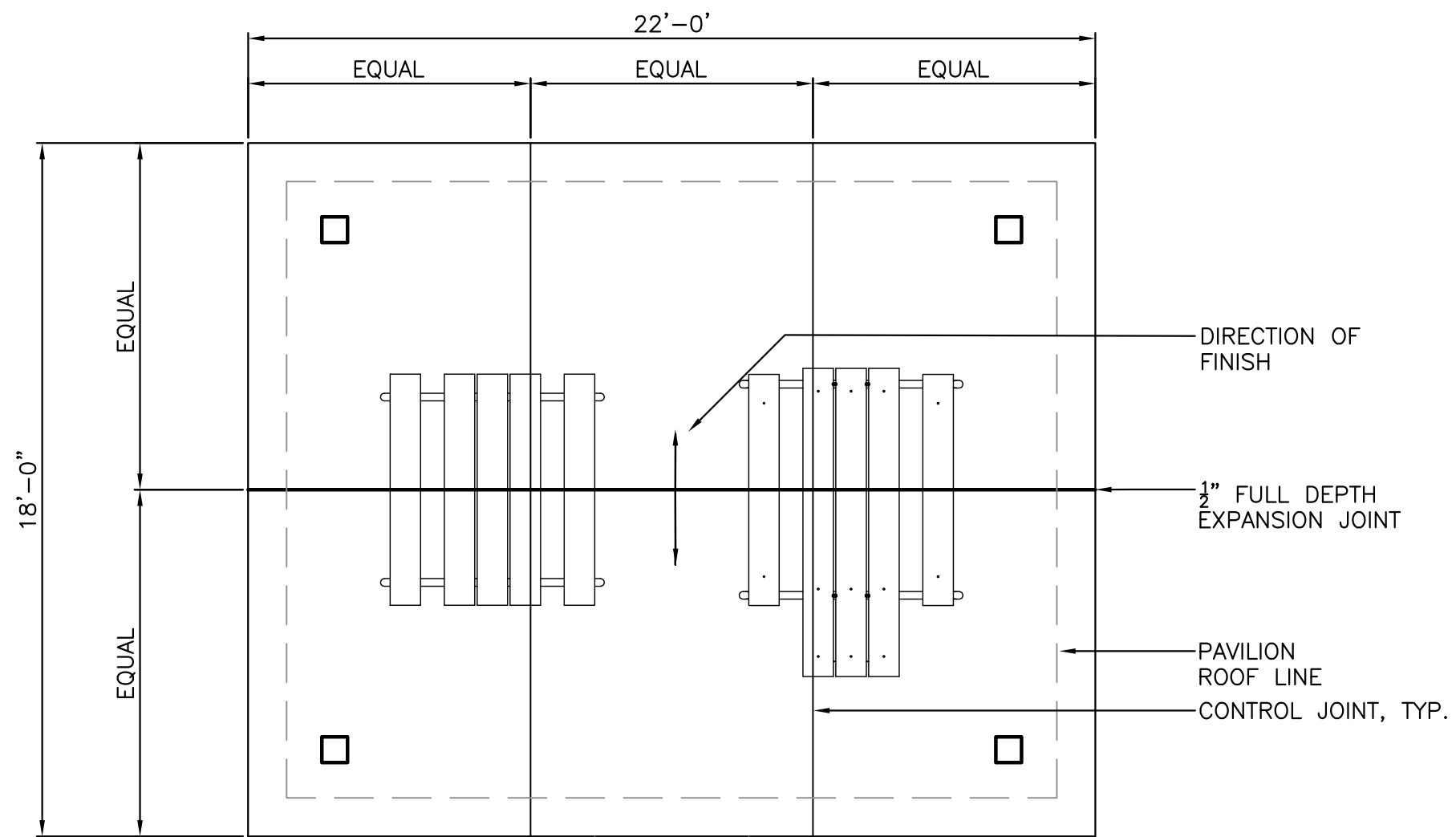
NOTE:
1. BUTT JOINT PAVERS AND FILL JOINTS
WITH MASONRY SAND. APPLY SAND JOINT STABILIZER
BY "PROSOCO" OR EQUAL.
2. BRICK PAVERS TO BE FLUSH WITH EACH OTHER AND
WITH ADJACENT PAVING.



4 CROSSWALK PAVER SECTION

NOTE:

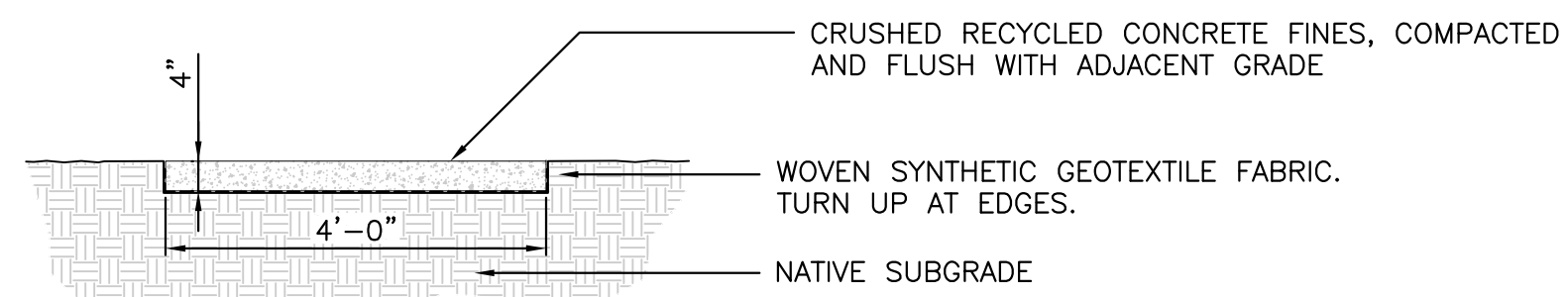
1. 4" CONCRETE SLAB WITH 8" THICKENED EDGE INCLUDING ONE #5 REBAR, ALL EDGES.
2. BROOM SWEEP FINISH IN DIRECTION SHOWN.
3. CONTROL JOINTS TO BE SAW CUT.
4. $\frac{1}{2}$ " RADIUS AT ALL SLAB EDGES.



2 PICNIC PAVILION SLAB

NOTE:

1. FLAG TRAIL LOCATION IN FIELD FOR OWNER'S REPRESENTATIVE'S APPROVAL PRIOR TO INSTALLATION.
2. LAYOUT SUCH THAT NO CROSS SLOPE IS GREATER THAN 2%.
3. INSTALL SURFACING TO PROVIDE POSITIVE DRAINAGE OFF OF TRAIL SURFACE.



5 TRAIL, TYPICAL SECTION

Technical drawing of a crosswalk detail. The drawing shows a crosswalk area with a hatched pattern, a single row band, and a herringbone pattern. Dimensions include 8" and 12". A callout '4 L-102' points to a specific feature. The drawing is labeled with 'K' for crosswalk paver materials.

8" WIDE CONCRETE BAND—
LIGHT BROOM SWEEP FINISH

4
L-102

K CROSSWALK PAV—
SINGLE ROW BAND

K CROSSWALK PAV—
HERRINGBONE PATTERN

3 CROSSWALK PAVING DETAIL



6 PICNIC PAVILION

A wooden picnic table with a green metal frame, labeled 'B STANDARD PICNIC TABLE'. The table has a rectangular top and two benches on opposite sides. The frame is made of green-painted metal with curved legs. The table top and benches are made of light-colored wood planks. A line points from the label 'B' to the table.

7 STANDARD PICNIC TABLE



10 TRAIL BENCH



8 ADA PICNIC TABLE



11 MULTIPURPOSE CENTER BENCH



9 TRAIL LITTER RECEPTACLE

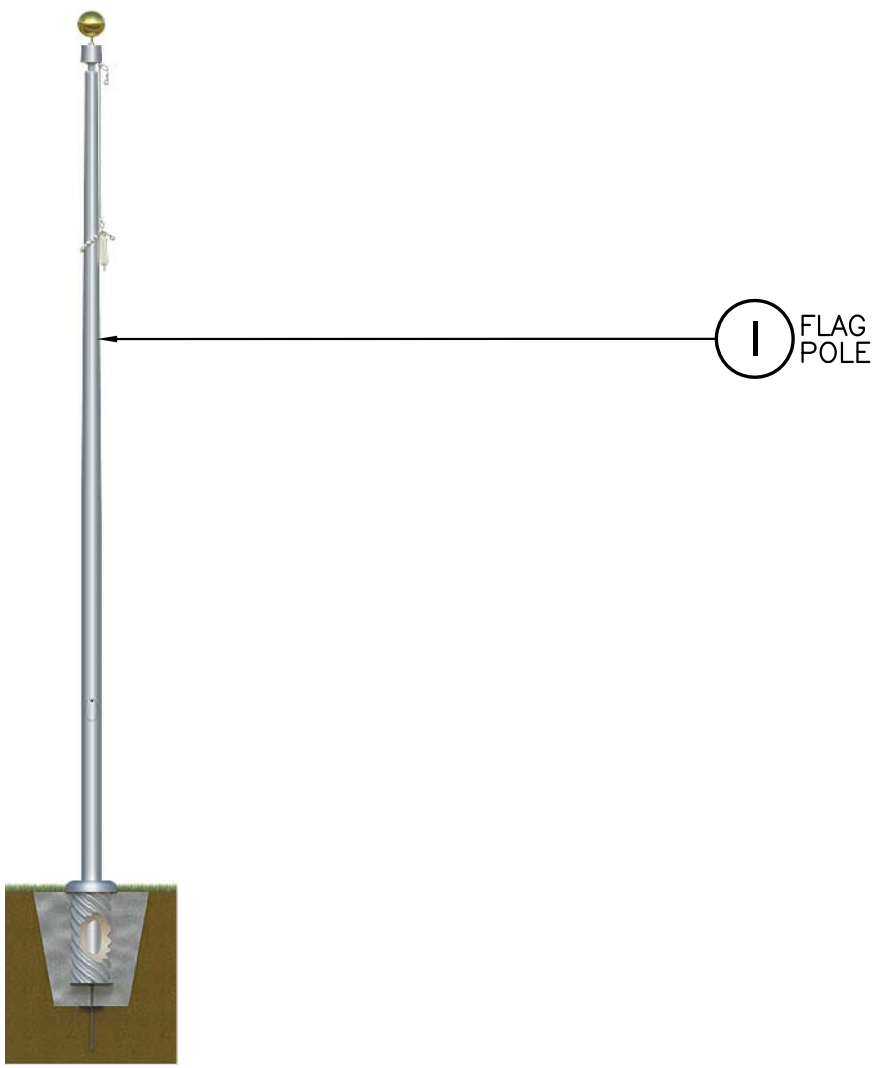


12 MULTIPURPOSE CENTER LITTER RECEPTACLE



H BICYCLE RACK

1 BICYCLE RACK
N.T.S.



I FLAG POLE

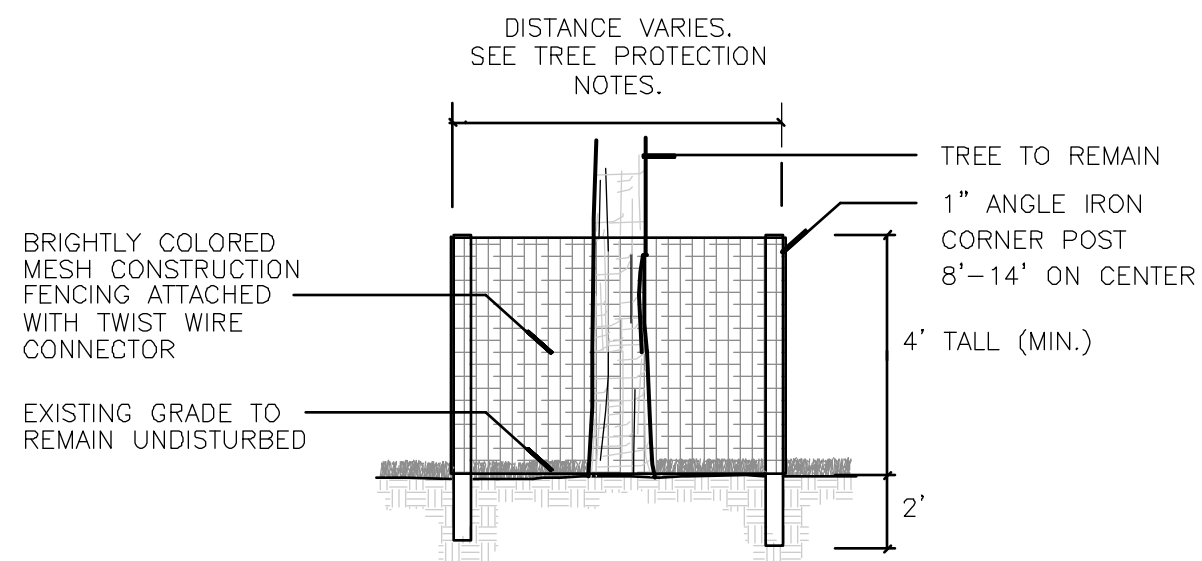
2 FLAG POLE
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J REMOVABLE BOLLARD

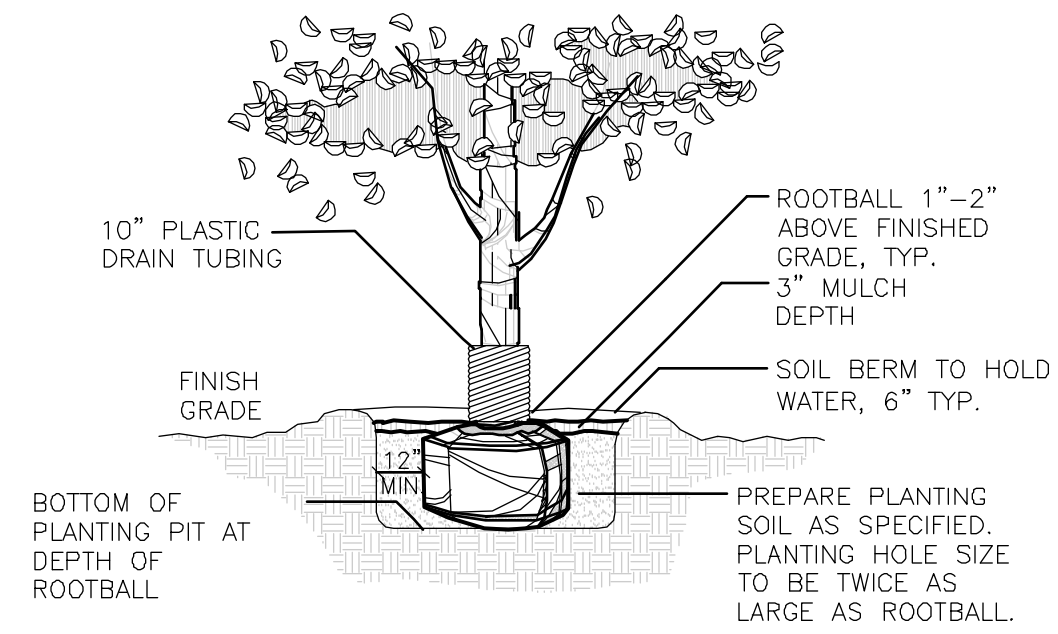
3 REMOVABLE BOLLARD
N.T.S.

FINISH SCHEDULE		
SYM	ITEM	SPECIFICATIONS
A	PICNIC PAVILION (COUNT: 2)	TYPE: 16' X 24' HIPPED SHELTER BY RCP SHELTERS FINISH: POWDER COATED TUBE STEEL COLOR: STANDARD, BY ARCHITECT SOURCE: RCP SHELTERS, KYLE RITTER (772)288-0207 OR KYLE@RCPSHELTERS.COM
B	STANDARD PICNIC TABLE (COUNT: 2)	TYPE: GV106G 6' TABLE BY WABASH VALLEY FINISH: POLY-TUF RECYCLED TOPS, POWDER COATED FRAME, SURFACE MOUNT COLOR: STANDARD, BY ARCHITECT SOURCE: SITE HORIZONS, EBBA BOWEN (407)637-9384 OR EBBABOWEN@GMAIL.COM
C	ADA PICNIC TABLE (COUNT: 2)	TYPE: GV1115G 8' ADA TABLE BY WABASH VALLEY FINISH: POLY-TUF RECYCLED TOPS, POWDER COATED FRAME, SURFACE MOUNT COLOR: STANDARD, BY ARCHITECT SOURCE: SITE HORIZONS, EBBA BOWEN (407)637-9384 OR EBBABOWEN@GMAIL.COM
D	TRAIL LITTER RECEPTACLE AND DOME LID (COUNT: 2)	TYPE: GV100G LITTER RECEPTACLE WITH DT100N DOME LID BY WABASH VALLEY FINISH: STEEL SUPPORTED, 100% RECYCLED MATERIAL PLANKS, SURFACE MOUNT COLOR: STANDARD, BY ARCHITECT SOURCE: SITE HORIZONS, EBBA BOWEN (407)637-9384 OR EBBABOWEN@GMAIL.COM
E	TRAIL BENCH (COUNT: 3)	TYPE: GV306G 6' BENCH BY WABASH VALLEY, DIRECT BURY FINISH: POLY-TURF RECYCLED MATERIAL TOP AND BACK, POWDER COATED FRAME COLOR: STANDARD, BY ARCHITECT SOURCE: SITE HORIZONS, EBBA BOWEN (407)637-9384 OR EBBABOWEN@GMAIL.COM
F	MULTIPURPOSE CENTER BENCH (COUNT: 2)	TYPE: GRB-6-HS-P 6' BENCH BY THOMAS STEELE TO MATCH THOSE ALONG MAIN STREET FINISH: POWDER COATED ALUMINUM FRAME AND STEEL BARS COLOR: STANDARD, BY ARCHITECT SOURCE: THOMAS STEELE. ANDREA CLAUSEN (608)849-1080 OR ACLAUSEN@THOMAS-STEELE.COM
G	MULTIPURPOSE CENTER LITTER RECEPTACLE (COUNT: 4)	TYPE: WNTR LITTER RECEPTACLE BY THOMAS STEELE TO MATCH THOSE ALONG MAIN STREET FINISH: POWDER COATED STEEL COLOR: STANDARD, BY ARCHITECT SOURCE: THOMAS STEELE. ANDREA CLAUSEN (608)849-1080 OR ACLAUSEN@THOMAS-STEELE.COM
H	BICYCLE RACK (COUNT: 7)	TYPE: ORN-2-SF-P ORION BICYCLE RACK BY MADRAX, SURFACE MOUNT FINISH: POWDER COATED, ROUND TUBING COLOR: STANDARD, BY ARCHITECT SOURCE: MADRAX, STACEY HALDEMAN (608)849-1080 OR SHALDEMAN@MADRAX.COM
I	FLAGPOLE (COUNT: 3)	TYPE: IWW - INTERNAL WITH WINCH FLAGPOLES BY AMERICAN FLAGPOLE OR APPROVED EQUAL. ALL TO MEET 120 MPH WIND SPEED REQUIREMENTS WITHOUT FLAG. FOR U.S. FLAG, TOTAL OF (1): MODEL NO. IWW35D81, 35' HT., 8" BUTT DIA. AND INCLUDE SPUN ALUMINUM COLLAR OPTION. INCLUDE (1) U.S. FLAG, 5'x8', NYLON, NO. FLAG-US-04 FOR OTHER FLAGS, TOTAL OF (2): MODEL NO. IWW30D71, 30' HT., 7" BUTT DIA. AND INCLUDE SPUN ALUMINUM COLLAR OPTION. INCLUDE (1) STATE OF FLORIDA FLAG, 4'x6', NYLON, NO. FLAG-FLORIDA-03 INCLUDE (1) FLAG TO BE DETERMINED BY OWNER, 4'x6', NYLON FINISH: STANDARD SATIN ALUMINUM COLOR: N/A SOURCE: FLORIDA SPECIALTY PRODUCTS, REGINA LAMBERT (321) 765-4975 OR APPROVED EQ.
J	REMOVABLE BOLLARD (COUNT: 2)	TYPE: STEEL REMOVABLE BOLLARD, LANDSCAPE FORMS, ANNAPOLIS 6" X 33" REMOVABLE BOLLARD FINISH: POWDERCOAT WITH SOLAR LIGHTED BOLLARD TOP, INCLUDE BLACK SLEEVE COLOR: STANDARD, BY ARCHITECT SOURCE: LANDSCAPE FORMS, DAN CRANE (800)430-6202 EXT. 1306, WWW.LANDSCAPEFORMS.COM
K	CROSSWALK PAVER	TYPE: 4"x8"x2-3/4" VEHICULAR GRADE CLAY BRICK PAVER BY PINE HALL BRICK FINISH: RUMBLED SERIES COLOR: TO BE SELECTED FROM STANDARD COLORS SOURCE: HARWOOD BRICK, STEVE BISCHKE (352) 377-1699
NOTE: CONTRACTOR SHALL SUBMIT SAMPLES AND/OR SHOP DRAWINGS FOR ALL FINISH SCHEDULE ITEMS.		



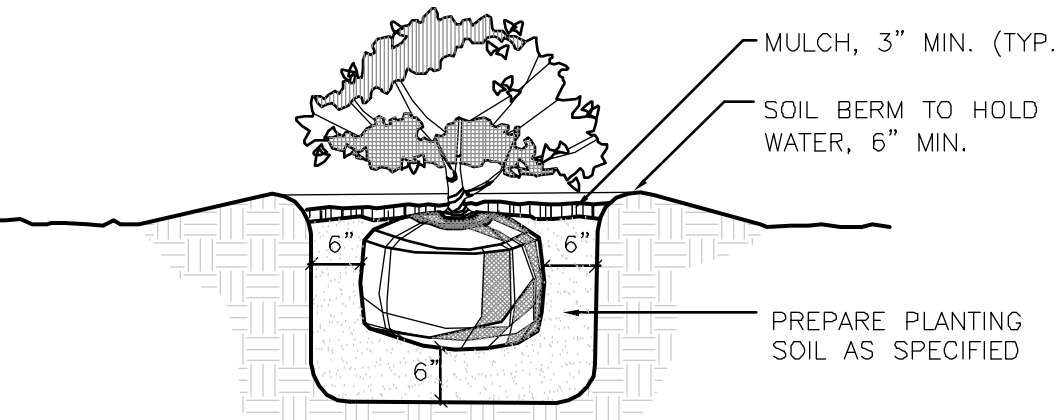
1 TREE PROTECTION DETAIL

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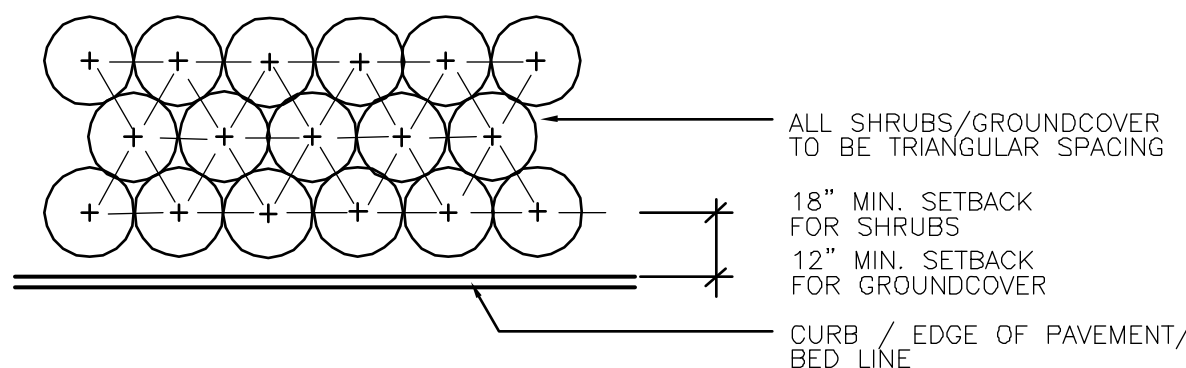
2 TREE PLANTING DETAIL

N.T.S.



3 SHRUB PLANTING DETAIL

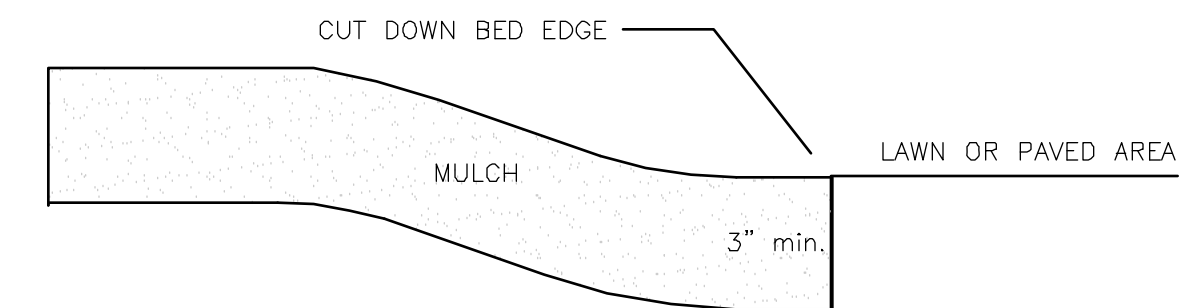
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NOTE: THE PERIMETER OF ALL CURVED PLANTING BEDS SHALL BE PLANTED WITH A ROW OF SHRUBS AS SHOWN IN THE PLANS AND AT THE SPACING SHOWN IN THE PLANT LIST. INTERIOR PORTIONS OF EACH BED SHALL BE PLANTED AT APPROPRIATE SPACING ACCORDING TO THIS PLANT SPACING DETAIL.

4 PLANT SPACING DETAIL

N.T.S.



5 MULCHING DETAIL

N.T.S.

TREE PROTECTION NOTES

- PROTECTIVE BARRICADES SHALL BE PLACED AROUND ALL REGULATED TREES AT A MINIMUM OF TWO-THIRDS OF THE AREA OF THE DRIPLINE OF THE TREE OR STAND OF TREES AT SIX FEET FROM THE TRUNK OF THE TREE, WHICHEVER IS GREATER.
- PROTECTIVE BARRICADES SHALL BE PLACED AT THE DRIPLINE OF ALL HERITAGE TREES, CHAMPION TREES, AND REGULATED PALM TREES.
- PROTECTIVE BARRICADES SHALL BE PLACED AROUND ALL TREES TO BE RETAINED ON THE SITE AND SHALL REMAIN IN PLACE UNTIL SITE CLEARING AND CONSTRUCTION ACTIVITIES ARE COMPLETE, EXCEPT WHERE LAND ALTERATION AND CONSTRUCTION ACTIVITIES ARE APPROVED WITHIN THE PROTECTED AREA.
- IF LAND ALTERATION AND CONSTRUCTION ACTIVITIES ARE APPROVED WITHIN THE PROTECTED AREA, THEN THE PROTECTIVE BARRICADES SHALL ONLY BE REMOVED WHEN ACTIVITIES ARE OCCURRING. PROTECTIVE BARRICADES SHALL BE REPLACED UPON COMPLETION OF THE ACTIVITIES WITHIN THE PROTECTED AREA.
- PROTECTIVE BARRICADES SHALL BE AT LEAST FOUR FEET HIGH AND CONSTRUCTED OF EITHER WOODEN CORNER POSTS AT LEAST TWO INCHES BY FOUR FEET BURIED ONE FOOT DEEP WITH AT LEAST TWO COURSES OF WOODEN SIDE SLATS AT LEAST ONE INCH BY FOUR FEET WITH COLORED FLAGGING OR COLORED MESH CONSTRUCTION FENCING ATTACHED OR CONSTRUCTED OF ONE INCH ANGLE IRON CORNER POSTS WITH BRIGHTLY COLORED MESH CONSTRUCTION FENCING ATTACHED.
- NO ATTACHMENTS SHALL BE SECURED TO TREES DESIGNATED TO REMAIN ON SITE.
- A THREE-INCH LAYER OF MULCH SHALL BE APPLIED OVER THE SURFACE OF ANY EXPOSED ROOTS OF RETAINED REGULATED, HERITAGE, AND CHAMPION TREES AND KEPT WET DURING THE SITE CLEARING AND CONSTRUCTION PHASES.
- DURING THE SITE CLEARING OR CONSTRUCTION PHASES, THE FOLLOWING ACTIVITIES SHALL BE PROHIBITED WITHIN THE PROTECTIVE AREA UNLESS APPROVED:
 - THE CLEARING OF VEGETATION EXCEPT BY HAND;
 - THE COMPACTION, FILLING, OR REMOVAL OF SOIL DEPOSITS;
 - THE PLACEMENT OF DEBRIS;
 - THE PLACEMENT OR DUMPING OF SOLVENTS OR OTHER CHEMICALS;
 - THE PLACEMENT OR STORAGE OF CONSTRUCTION MATERIALS, MACHINERY OR OTHER EQUIPMENT OF ANY KIND; AND
 - THE USE OF CONCRETE, ASPHALT, OR OTHER PAVING MATERIALS.
- ANY RETAINED OR RELOCATED TREE SHALL BE REPLACED IF THE TREE DIES WITHIN ONE YEAR AFTER SITE CLEARING AND CONSTRUCTION.
- ANY ROOT PRUNING AND/OR PRUNING OF RETAINED REGULATED, HERITAGE, AND CHAMPION TREES DURING THE SITE CLEARING OR CONSTRUCTION PHASES SHALL BE DONE IN ACCORDANCE WITH ARBORICULTURAL STANDARDS.

30% LANDSCAPED AREA REQUIREMENT

Per City of Alachua Comprehensive Plan Policy 2.4.1, which states that the minimum landscaped area must be 30% of the development site.

TOTAL SITE AREA = 1,294,132 S.F. = 29.7 ACRES
TOTAL PROPOSED LANDSCAPED AREA.....1,060,416 S.F. = 81.9%

10% OPEN SPACE AREA REQUIREMENT

CITY OF ALACHUA LDR SECTION 6.7.3 (A) STATES THAT THE MINIMUM OPEN SPACE SET-ASIDE SHALL BE 10% OF THE DEVELOPMENT SITE. THIS REQUIREMENT IS MET BY THE CALCULATIONS FOR 30% LANDSCAPE, SHOWN WITHIN CHART ON THIS SHEET, WHICH INCLUDE LANDSCAPED BUFFERS, BASINS, AND OTHER LANDSCAPED AREAS.

REQUIRED TREE MITIGATION

HERITAGE TREES REMOVED: 1 TREE, 46" LIVE OAK REGULATED TREES REMOVED: 12 TREES
MITIGATION REQUIRED: INCH FOR INCH TREE MITIGATION: 46" REPLACEMENT TREE FOR TREE MITIGATION: 12 TREES TO BE REPLACED = 1.5" EACH (CODE MINIMUM SIZE) 64" TOTAL REPLACEMENT INCHES AT LEAST 50% OF THE TOTAL REPLACEMENT TREES SHALL BE CANOPY TREES AND AT LEAST 75% SHALL BE CHOSEN FROM RECOMMENDED TREE LIST PER 6.2.2(D)(4)(b) NOTE: ALL TREES TO BE COUNTED TOWARDS MITIGATION REPLACEMENT TREES ARE MARKED 'M' ON PLAN. TREES USED FOR MITIGATION ARE SEPARATE FROM AND IN ADDITION TO MINIMUM LANDSCAPE REQUIREMENTS.
MITIGATION PROVIDED: 64 IN./2.5" CALIPER 30 GALLON TREES PROVIDED = 26 TREES PROVIDED, ALL LIVE OAKS - MEETS 50% REQUIREMENT FOR CANOPY TREES - MEETS 75% REQUIREMENT FOR TREES ARE ON THE RECOMMENDED LIST

SITE LANDSCAPE CALCULATIONS Section 6.2.2(D)(1)(b)

Note: See sheet L-202 for Tree Preservation Credit Chart

DESCRIPTION	TREE REQUIREMENTS	TREES PROVIDED
PRIMARY SIDE CANOPY TREES	4 Trees per Acre 4 Trees x 30 Acres = 120 Trees required	84 Trees Provided 36 Tree Credits Used
SIDE AND REAR CANOPY TREES	3 Trees per Acre per side and rear	
WEST SIDE CANOPY TREES	3 Trees x 30 Acres = 90 Trees	87 Trees Provided, 3 Credits Used
EAST SIDE CANOPY TREES	3 Trees x 30 Acres = 90 Trees	34 Trees Provided, 56 Credits Used
REAR SIDE CANOPY TREES	3 Trees x 30 Acres = 90 Trees	26 Trees Provided, 64 Credits Used
SITE UNDERSTORY TREES	8 Trees per Acre 8 Trees x 30 Acres = 240 Trees 50% in Front = 120 Trees 25% on West Side = 60 Trees 25% on East Side = 60 Trees	47 Trees Provided, 73 Credits Used 43 Trees Provided, 17 Credits Used 14 Trees Provided, 46 Credits Used
BUILDING FACADE *All trees to be counted towards building facade trees are marked 'B' on plan.	4 Trees per 100 L.F./ Shrub line along all facades 875 L.F. of facade 8.75 X 4 = 35 Trees required	35 Trees Provided, 0 Credits Used Shrub line along all facades provided

PERIMETER BUFFER LANDSCAPE REQUIREMENTS Section 6.2.2(D)(3)

Note: Public and Institutional Use (Parks and Open Areas) - Buffers are not required.

PARKING BUFFER LANDSCAPE REQUIREMENTS

Sec. 6.2.2(D)(2)(b): 4 Canopy & 2 Understory trees per 100 lin. ft.

Note: See sheet L-202 for Tree Preservation Credit Chart

PARKING PERIMETER LENGTH	TREE & SHRUB REQUIREMENTS	TREES & SHRUBS PROVIDED
Parking Perimeter = 544 L.F.	22 Canopy Trees 11 Understory Trees 33 Trees Required Continuous Evergreen Hedge	22 Canopy Trees Provided, 0 Tree Credits 11 Understory Tree Provided, 0 Tree Credits 33 Total Trees Provided, 0 Tree Credits Used Continuous Evergreen Hedge Provided

INTERIOR PARKING AREA LANDSCAPE REQUIREMENTS

Sec. 6.2.2(D)(2)(a): 1 Canopy/Understory tree for every 2,000 S.F.; 10 shrubs for every tree.

PARKING AREA	TREE & SHRUB REQUIREMENTS	TREES & SHRUBS PROVIDED
PROPOSED PARKING AREA	34,667 S.F. 34,667 S.F./2000 S.F. = 18 Trees required 18 (trees) x 10 (shrubs) = 180 shrubs required	18 Trees Provided, 0 Tree Credits 180 shrubs provided

GENERAL PLANTING NOTES

- ALL ASPHALT, LIMESTONE, AND CONSTRUCTION DEBRIS TO BE REMOVED FROM PLANTING BEDS AND AREAS TO BE SODDED PRIOR TO LANDSCAPE INSTALLATION. PLANTING DEPTH OF SOIL IN SUCH AREAS SHOULD BE AT LEAST 3". IF FILL MUST BE ADDED, IT MUST BE FLORIDA CLEAN DEEP FILL (FREE OF WEED SEEDS) WITH pH 5.5-6.5.
- CANOPY TREES SHALL BE A MINIMUM OF EIGHT (8) FEET IN HEIGHT AND ORNAMENTAL OR UNDERSTORY TREES SHALL HAVE A MINIMUM CALIPER OF ONE AND A HALF (1.5) INCHES, UNLESS OTHERWISE SPECIFIED BY THE LANDSCAPE ARCHITECT.
- ALL TREES TO BE PLANTED 1"-2" ABOVE FINISHED GRADE.
- ALL LANDSCAPED AREAS TO BE MULCHED WITH 3" THICKNESS OF MULCH. PINE BARK "MINI NUGGET" MULCH SHALL BE USED IN ALL AREAS, EXCEPT RETENTION AREAS. PINE STRAW MULCH SHALL BE USED IN RETENTION AREAS.
- LEADER SHOOTS AND MAIN STRUCTURAL LIMBS OF TREES WILL NOT BE TOPPED OR PRUNED. TREES TO BE STAKED AS NEEDED, GUYLINES TO BE NON-SYNTHETIC BIODEGRADABLE MATERIAL.
- ALL PLANT MATERIAL TO BE FLORIDA NO.1 OR BETTER, GRADED IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY PLANTS PUBLISHED BY THE STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE.
- ALL DISTURBED AND UNPAVED AREAS TO BE GRASSED WITH NOXIOUS WEED AND TROPICAL SODA APPLE FREE SOD OR SEEDS AND MULCHED. SEE CIVIL SITE PLANS FOR ADDITIONAL RELATED INFORMATION.
- SHRUBS AROUND ABOVE GROUND GAS TANK TO BE PLANTED IN FUTURE PHASE.
- SELECTIVELY CLEAR AREAS AROUND EXISTING TREES TO REMAIN IN AREAS GENERALLY INDICATED ON PLANS. REFER TO SPECIFICATION SECTION 311300 SELECTIVE TREE AND VEGETATION REMOVAL AND TRIMMING.

IRRIGATION

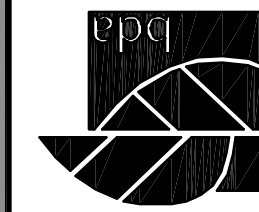
SEE SHEET L-302 THROUGH L-307 FOR AUTOMATIC IRRIGATION SYSTEM IN ACCORDANCE WITH CITY OF ALACHUA LDR SECTION 6.2.2(D)(6)(b)(v).

LEGEND



PLANT SCHEDULE

TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE
AR	9	ACER RUBRUM 'FLORIDA FLAME'	FLORIDA FLAME RED MAPLE	15 GAL., 9' HT., 34" SPR., 1.5" CAL.
BN	6	BETULA NIGRA 'DURA HEAT'	DURA HEAT RIVER BIRCH	15 GAL., 9' HT., 34" SPR., 1.5" CAL.
FG	20	FRAXINUS PENNSYLVANICA	GREEN ASH	15 GAL., 9' HT., 34" SPR., 1.5" CAL.
LIN	51	LAGERSTROEMIA INDICA 'NATCHEZ'	NATCHEZ CRAPE MYRTLE	15 GAL., 8' HT., 30" SPR., 1.5" CAL., STANDARD
LT	12	LIRIODENDRON TULIPIFERA	TULIP TREE	15 GAL., 9' HT., 34" SPR., 1.5" CAL.
LTL	8	LIRIODENDRON TULIPIFERA	TULIP TREE	30 GAL., 11' HT., 3" SPR., 2.5" CAL.
MG	22	MAGNOLIA GRANDIFLORA 'BRACKEN'S BROWN BEAUTY'	BRACKEN'S BROWN BEAUTY MAGNOLIA	15 GAL., 9' HT., 2' SPR., 1.5" CAL., FULL TO GROUND
MGL	5	MAGNOLIA GRANDIFLORA 'BRACKEN'S BROWN BEAUTY'	BRACKEN'S BROWN BEAUTY MAGNOLIA	30 GAL., 12' HT., 42" SPR., 2.5" CAL., FULL TO GROUND
QV	21	QUERCUS VIRGINIANA	SOUTHERN LIVE OAK	15 GAL., 9' HT., 42" SPR., 1.5" CAL.
QVB	26	QUERCUS VIRGINIANA 'BOARDWALK'	BOARDWALK LIVE OAK	30 GAL., 12' HT., 54" SPR., 2.5" CAL.
QVL	4	QUERCUS VIRGINIANA	SOUTHERN LIVE OAK	30 GAL., 12' HT., 54" SPR., 2.5" CAL.
TD	12	TAXODIUM DISTICHUM	BALD CYPRESS	15 GAL., 9' HT., 2' SPR., 1.5" CAL.
UPE	19	ULMUS PARVIFOLIA 'ALLEE'	ALLEE ELM	15 GAL., 8' HT., 30" SPR., 1.5" CAL.
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE
CN	19	CAMELLIA SASANQUA 'NORTHERN EXPOSURE'	NORTHERN EXPOSURE CAMELLIA	3 GAL., 18" HT X 12" SPR.
IDB	225	ILEX CORNUTA 'DWARF BURFORDII'	DWARF BURFORD HOLLY	3 GAL., 24" HT., X 16" SPR.
LL	124	LOROPETALUM CHINENSE 'PLUM'	PLUM LOROPETALUM	3 GAL., 24" HT. X 12" SPR.
PM	21	PODOCARPUS MACROPHYLLUS	PODOCARPUS	15 GAL., 42" HT. X 24" SPR.
RI	216	RHAPHIOLEPIS INDICA	INDIAN HAWTHORN	3 GAL., 15" HT. X 15" SPR.
VOS	61	VIBURNUM OBOVATUM 'MRS. SHILLER'S DELIGHT'	MRS. SHILLERS DELIGHT VIBURNUM	3 GAL., 18" HT X 12" SPR.
GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	SIZE
LEM	68	LIRIOPE MUSCARI 'EMERALD GODDESS'	EMERALD GODDESS LIRIOPE	1 GAL., FULL
SOD/SEED		BOTANICAL NAME	COMMON NAME	SIZE
SOD		PASPALLUM NOTATUM 'ARGENTINE'	BAHIA GRASS	WEED FREE AND SAND GROWN SOD



ANY MODIFICATIONS TO THESE PLANS OR RE-USE OF THESE PLANS MUST BE APPROVED BY AND SIGNED BY THE ARCHITECT

TREE PRESERVATION CREDITS

NOTE:
TREE NUMBERS RELATE TO NUMBERS SHOWN ON PLAN
WITHIN SQUARES NEXT TO EXISTING TREE.

TREE NUMBER	TREE TYPE	DBH	CREDIT
1	LIVE OAK	36"	7
2	LIVE OAK	9"	2
3	LIVE OAK	31"	6
4	LIVE OAK	9"	2
5	LIVE OAK	8"	2
6	LIVE OAK	8"	2
7	LIVE OAK	8"	2
8	LIVE OAK	8"	2
9	LIVE OAK	60"	9
10	LIVE OAK	36"	7
11	LIVE OAK	36"	7
12	PECAN	9"	2
13	LIVE OAK	39"	7
14	LIVE OAK	30"	6
15	LIVE OAK	9"	2
16	LIVE OAK	43"	8
17	LIVE OAK	23"	4
18	LIVE OAK	54"	9
19	LIVE OAK	10"	2
20	LIVE OAK	19"	4
21	LIVE OAK	60"	9
22	LIVE OAK	66"	9
23	LIVE OAK	9",10"	4
24	HERCULES CLUB	10",11"	4
25	LIVE OAK	30",48"	15
26	LOBLOLLY PINE	8"	2
27	LOBLOLLY PINE	9"	2
28	LOBLOLLY PINE	8"	2
29	LOBLOLLY PINE	11"	2
30	LOBLOLLY PINE	9"	2
31	LOBLOLLY PINE	8"	2
32	LOBLOLLY PINE	9"	2
33	LOBLOLLY PINE	10"	2
34	LOBLOLLY PINE	8"	2
35	LOBLOLLY PINE	10"	2
36	LOBLOLLY PINE	10"	2
37	LOBLOLLY PINE	9"	2
38	LOBLOLLY PINE	9"	2
39	LOBLOLLY PINE	10"	2
40	LIVE OAK	22"	4
41	HERCULES CLUB	9"	2
42	LIVE OAK	9"	2
43	LIVE OAK	21",24"	9
44	LOBLOLLY PINE	9"	2
45	LIVE OAK	20"	4
46	LIVE OAK	12"	3
47	LIVE OAK	22"	4
48	LIVE OAK	8"	2
49	LIVE OAK	15",42"	11
50	LIVE OAK	15"	3
51	LOBLOLLY PINE	18"	4
52	LIVE OAK	15"	3
53	LIVE OAK	9"	2
54	LIVE OAK	9"	2
55	LIVE OAK	14",18"	7
56	LIVE OAK	11"	2
57	LIVE OAK	20"	4
58	LIVE OAK	10"	2
59	LIVE OAK	22"	4
60	LIVE OAK	18",18"	8
61	LOBLOLLY PINE	9"	2
62	LIVE OAK	8"	2
63	LIVE OAK	13"	3
64	LIVE OAK	9"	2
65	LIVE OAK	10"	2
66	LIVE OAK	11"	2
67	LIVE OAK	24",24"	10
68	LIVE OAK	11"	2
69	LIVE OAK	24"	8
70	LIVE OAK	15",18"	7

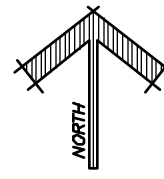
TREE NUMBER	TREE TYPE	DBH	CREDIT
71	LIVE OAK	30"	6
72	LIVE OAK	15"	3
73	LIVE OAK	9"	2
74	LIVE OAK	9"	2
TOTAL CREDITS:			295

TREE PRESERVATION CREDIT
ALLOCATION SUMMARY

TOTAL TREE PRESERVATION CREDITS.....	295
TREE PRESERVATION CREDITS ALLOCATED.....	295
TREE PRESERVATION CREDITS REMAINING.....	0



NOT TO SCALE



CITY OF ALACHUA
LEGACY PARK
MULTI-PURPOSE CENTER & RELATED FACILITIES
ALACHUA, FLORIDA

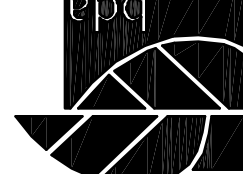
REVISIONS	DATE	DATE	DATE
ITEM	DATE	DATE	DATE

LANDSCAPE ARCHITECT'S SEAL

SHEET NO.
L-202

BDA No. 15408

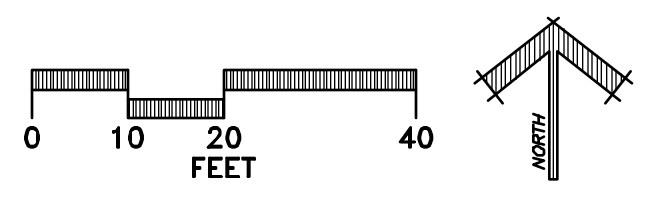
PZB SUBMITTAL
LANDSCAPE AND
IRRIGATION KEY SHEET



Buford Davis + Associates
Landscape Architects and Planners
2406 NW 43rd Street
Gainesville, FL 32608
352.373.1896 FAX
352.373.6407 FAX

DRAWN BY: CEMBY
DATE: FEBRUARY 22, 2016
PROPOSAL NO: 15-040

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LEGACY PARK
MULTI-PURPOSE CENTER & RELATED FACILITIES
ALACHUA, FLORIDA

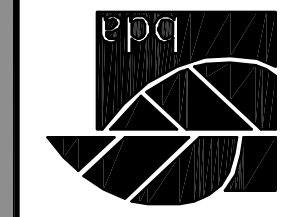
REVISIONS
ITEM: _____
DATE: _____

LANDSCAPE
ARCHITECT'S SEAL

SHEET NO.
L-203

BDA No. 15408

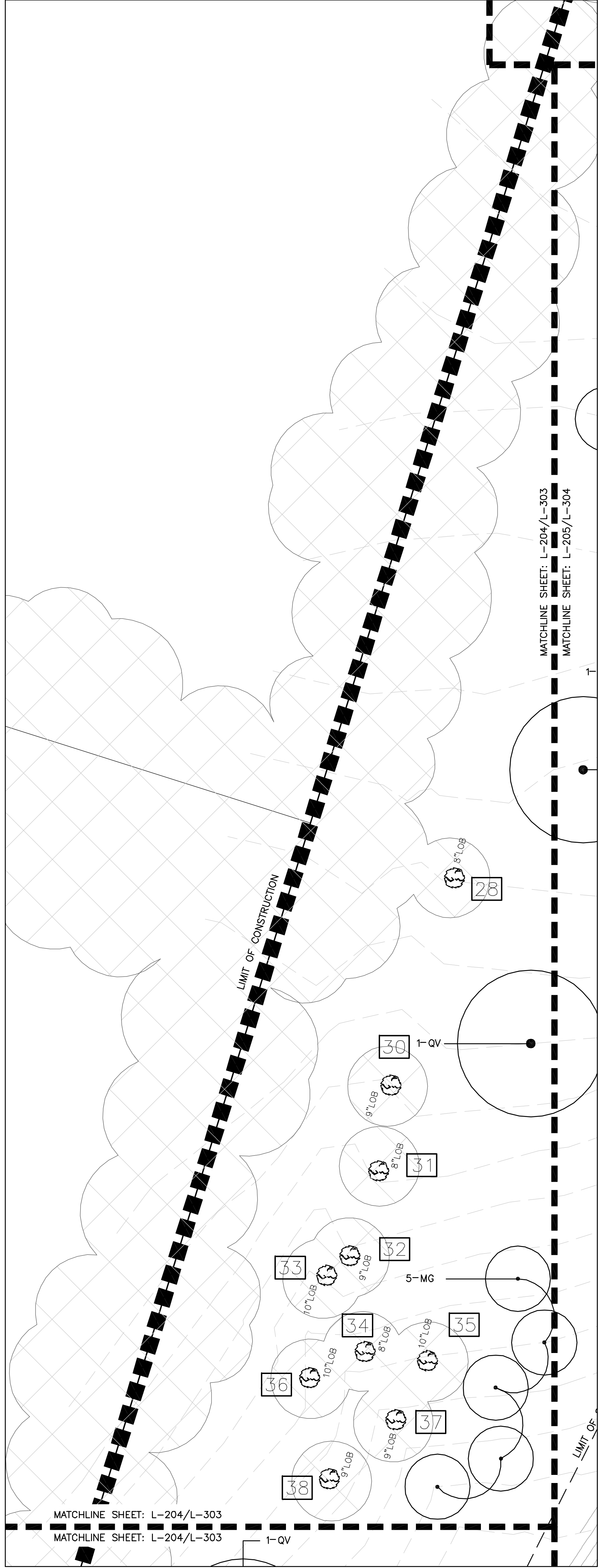
PZB SUBMITTAL
LANDSCAPE
PLAN



Buford Davis + Associates
Landscape Architects and Planners
2406 NW 43rd Street
Gainesville, FL 32608
352.373.1896 FAX
352.373.6407 FAX
15-040

DRAWN BY:
CEMBY
DATE:
FEBRUARY 22, 2016
PROPOSAL NO.:

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CITY OF ALACHUA

LEGACY PARK


MULTI-PURPOSE CENTER & RELATED FACILITIES
ALACHUA, FLORIDA

PZB SUBMITTAL

LANDSCAPE
PLANDRAWN BY:
CLO/DCV

Buford Davis + Associates
landscape architects site planners

2406 NW 43rd Street
Gainesville, Florida 32606
352.335.1896 tel



REVISIONS

1

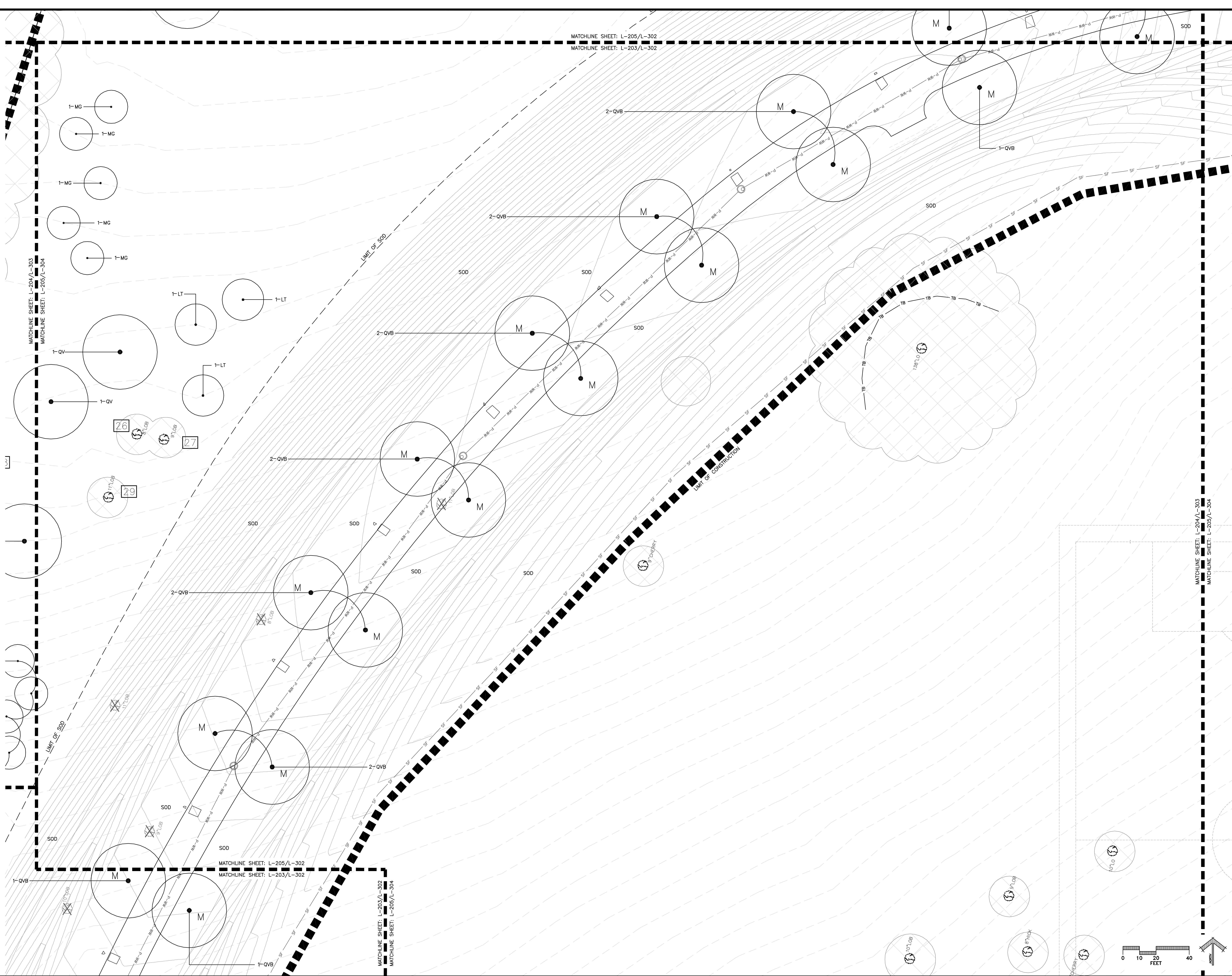
LANDSCAPE
ARCHITECT'S SEA

SHEET NO.

L-204

BDA No. 15-08

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LEGACY PARK
MULTI-PURPOSE CENTER & RELATED FACILITIES
ALACHUA, FLORIDA

PZB SUBMITTAL

LANDSCAPE
PLAN

Buford Davis + Associates

2406 NW 43rd Street
Gainesville, Florida 32606
352.335.1896 tel

DRAWN BY:
CEMUSYDATE: FEBRUARY 25, 2011
MOON: 11 NO

REVISIONS

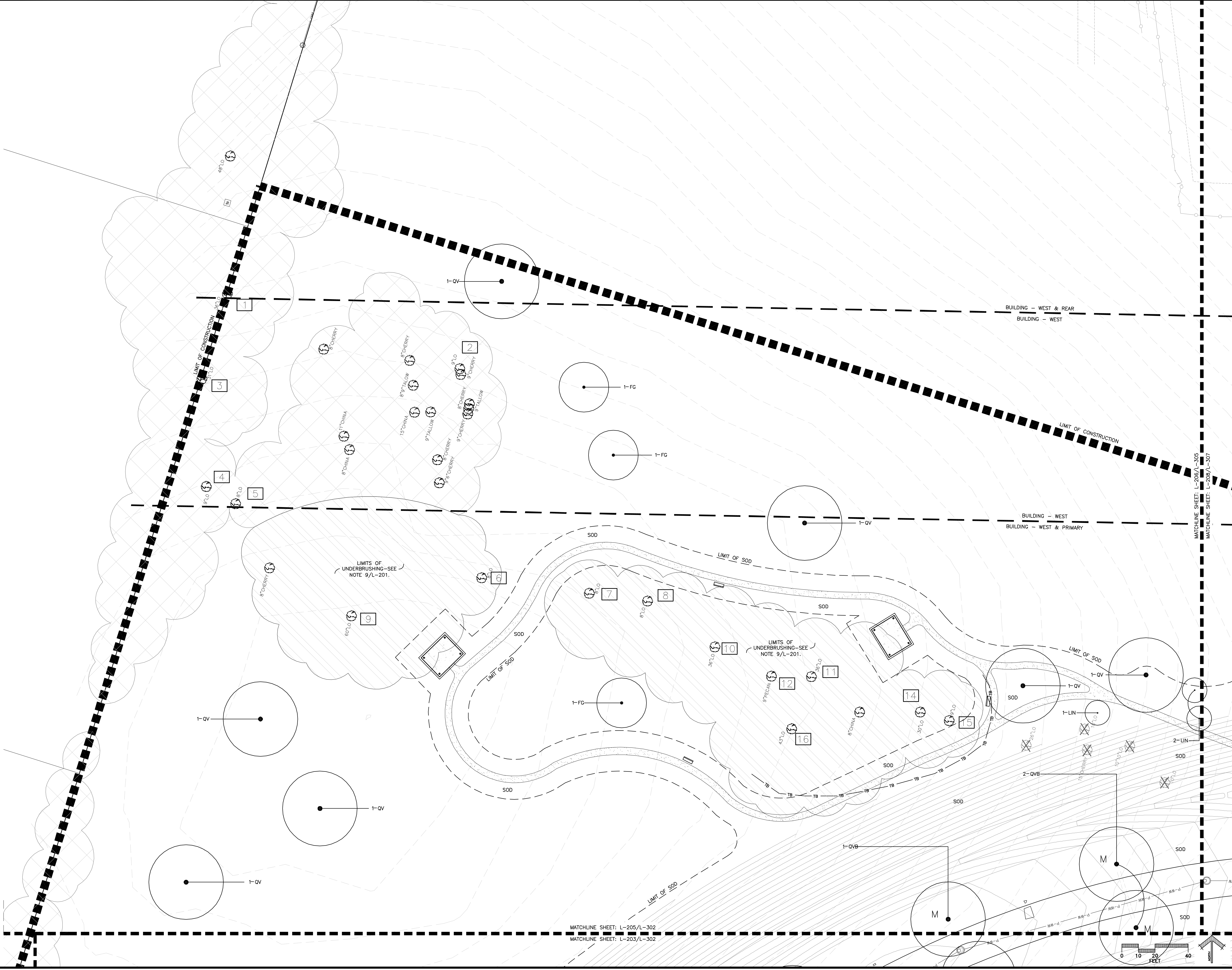
ET
AS

1

L-205

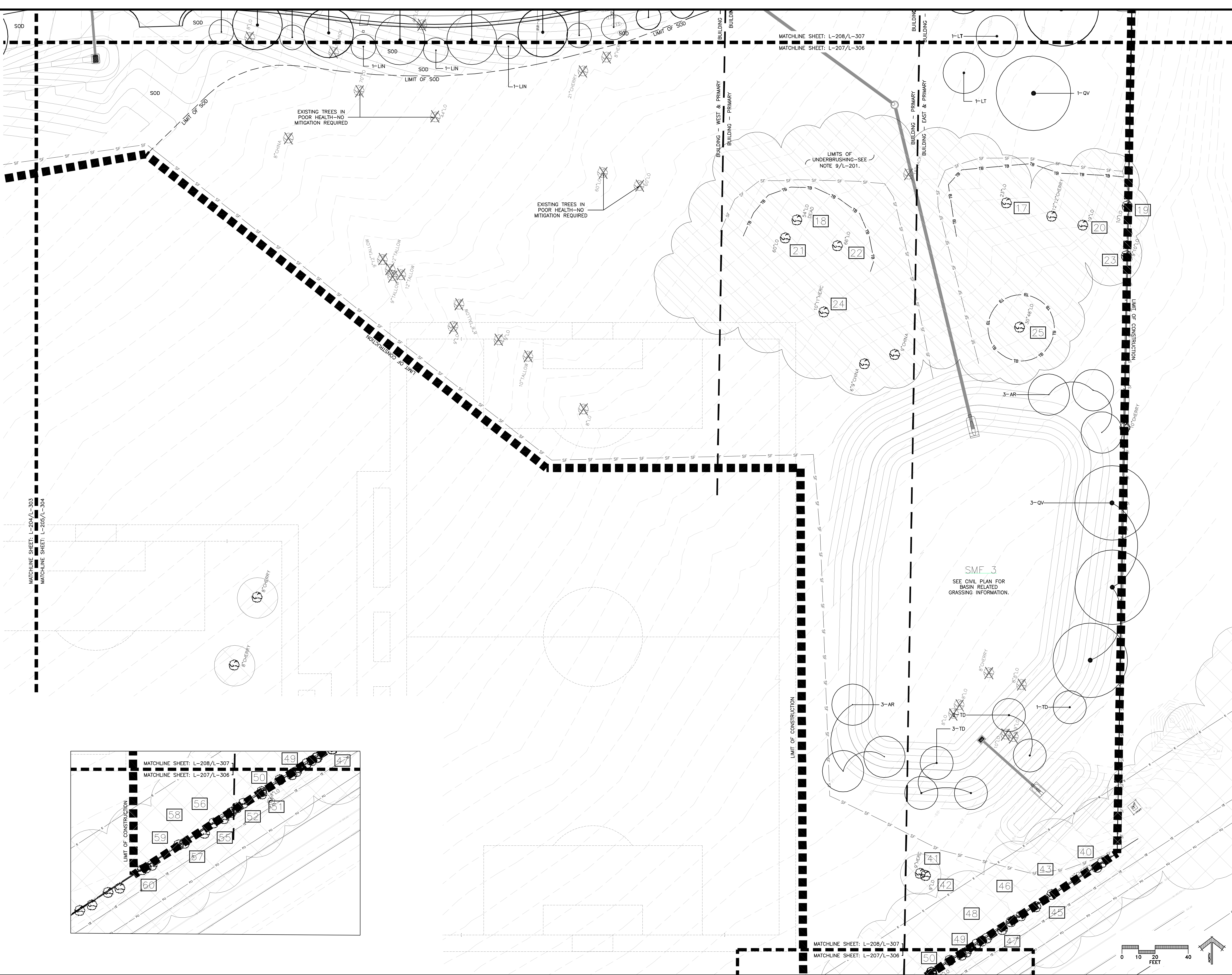
BDA No. 15-08

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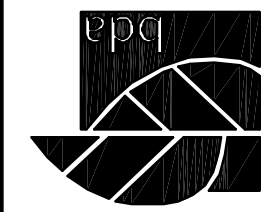


CITY OF ALACHUA LEGACY PARK MULTI-PURPOSE CENTER & RELATED FACILITIES ALACHUA, FLORIDA	PZB SUBMITTAL LANDSCAPE PLAN		DRAWN BY: CEMBY	DATE: FEBRUARY 22, 2016	PROPOSAL NO: 15-040
			Buford Davis + Associates Landscape Architects and Planners 2406 NW 43rd Street Gainesville, FL 32608 352.373.1896 FAX 352.373.6407 FAX		
REVISIONS ITEM: _____ DATE: _____		LANDSCAPE ARCHITECT'S SEAL	SHEET NO. L-206		
			BDA No. 15-088		

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LEGACY PARK
MULTI-PURPOSE CENTER & RELATED FACILITIES
ALACHUA, FLORIDA



Buford Davis + Associates
Landscape Architects and Planners
2406 NW 43rd Street
Gainesville, FL 32608
Phone: 352.373.1896 Fax: 352.373.6407

P2B SUBMITTAL
LANDSCAPE
PLAN

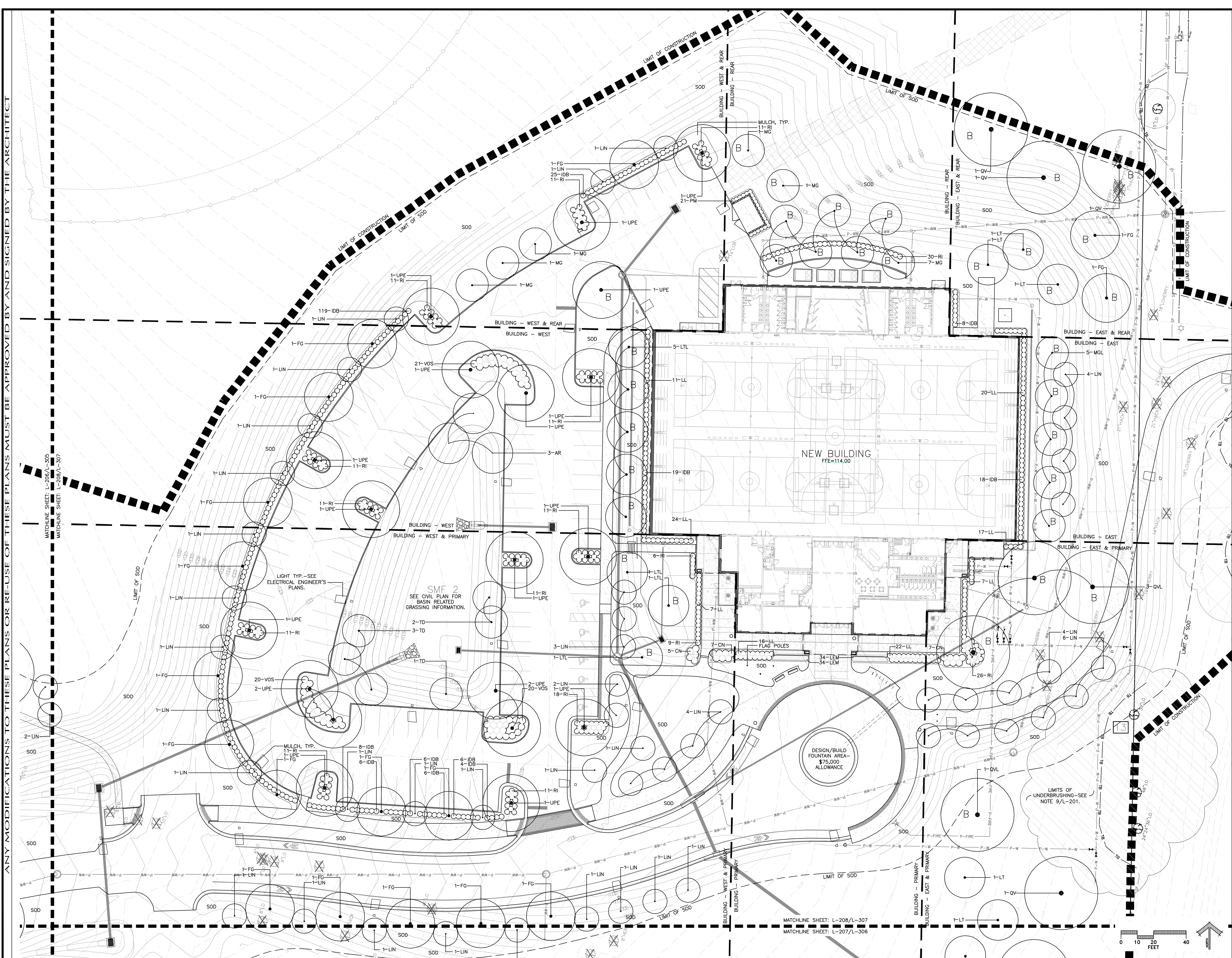
REVISIONS
ITEM: _____
DATE: _____
LANDSCAPE
ARCHITECT'S SEAL

SHEET NO.
L-207

BDA No. 15408

DRAWN BY:
CEMBY
DATE:
FEBRUARY 12, 2016
PROPOSAL NO.:
15-040

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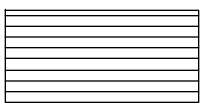









CITY OF ALACHUA
LEGACY PARK
MULTI-PURPOSE CENTER & RELATED FACILITIES
ALACHUA, FLORIDA

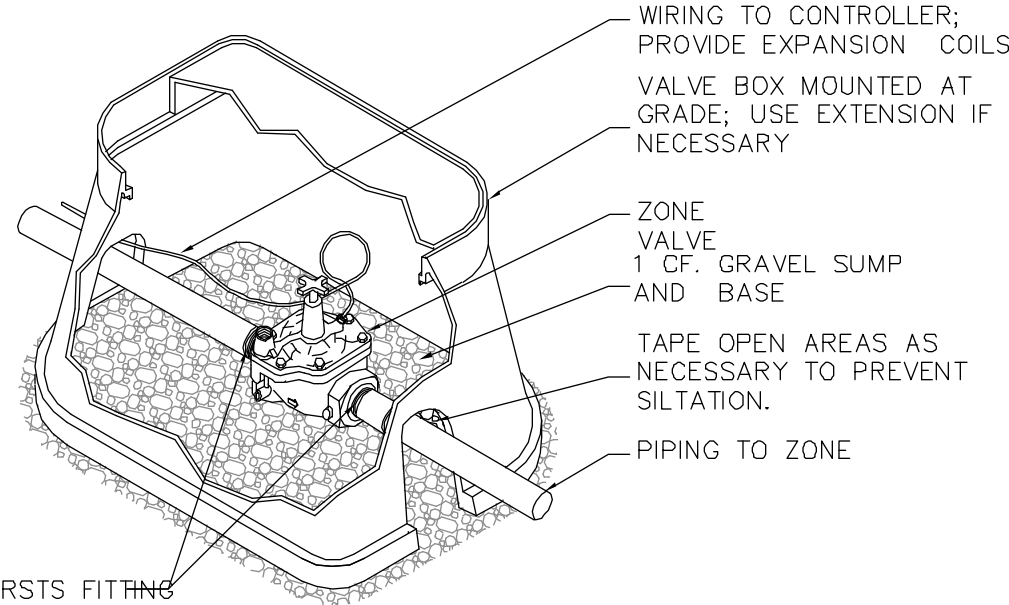
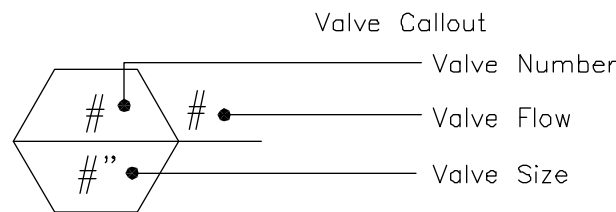
P2B SUBMITTAL
LANDSCAPE
PLAN

Drawn By: Bufo Davis + Associates
Date: FEBRUARY 22, 2016
Project No: 15-040
Scale: 1/8" = 1'-0"

REVISIONS	DATE	LANDSCAPE ARCHITECT'S SEAL	SHEET NO.
ITEM			L-208
			BDA No. 15-040

IRRIGATION_SCHEDULE

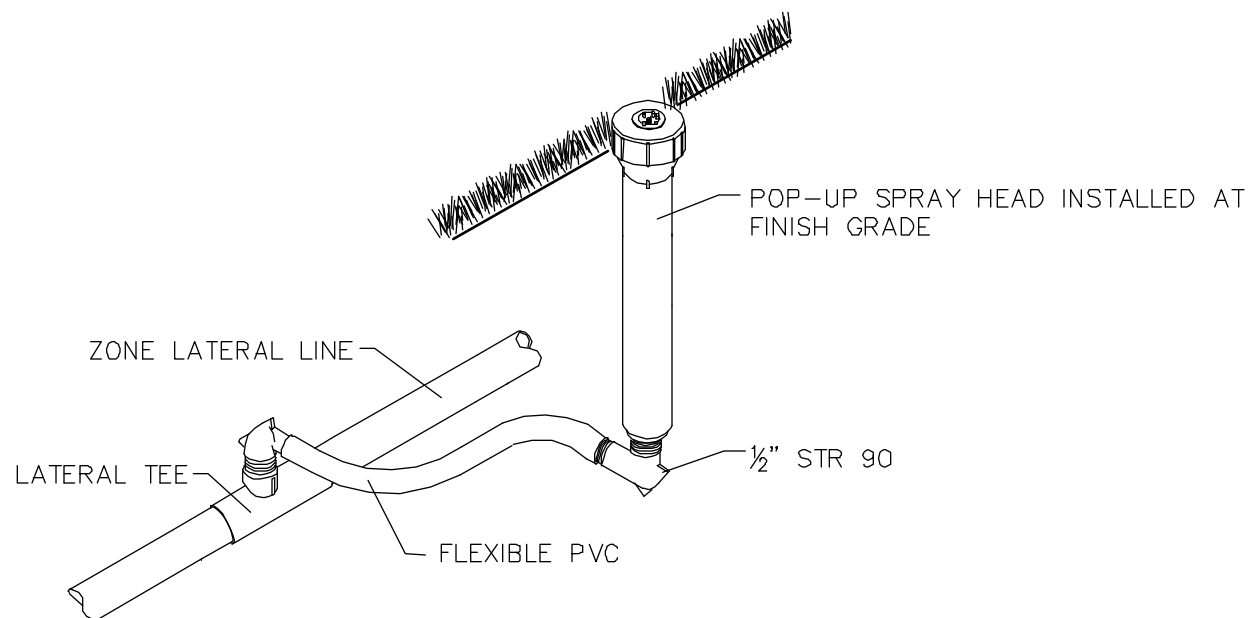
SYMBOL	MANUFACTURER/MODEL	ABC	PSI	GPM	RADIUS
	Two Rain Bird PCT-07	360	30	2X.12	1'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION				
	Area to Receive Dripline Hunter PLD-10-12 On-Surface Pressure Compensating Landscape Dripline, 0.9GPH emitters at 12.0" O.C. Dripline laterals spaced at 16.0" apart, with emitters offset for triangular pattern. UV Resistant.				
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION				
	Hunter PCZ-101 in Jumbo Valve Box				
	Nibco T-113 2" Isolation Valve in 10" Valve Box				
	Wilkins 975XL 1-1/2" Backflow Preventer				
	Hunter IC-600-PL with DUAL48M Two Wire Module				
	Hunter Miniclik Rain Sensor				
	Water Meter 1" to provide 25 gpm @ 45 psi				
	Irrigation Lateral Line: PVC Class 160 SDR 21				
	Irrigation Mainline: 2" PVC Schedule 40				
	Pipe Sleeve: PVC Schedule 40 Extend sleeves 18 inches beyond edges of paving or construction.				



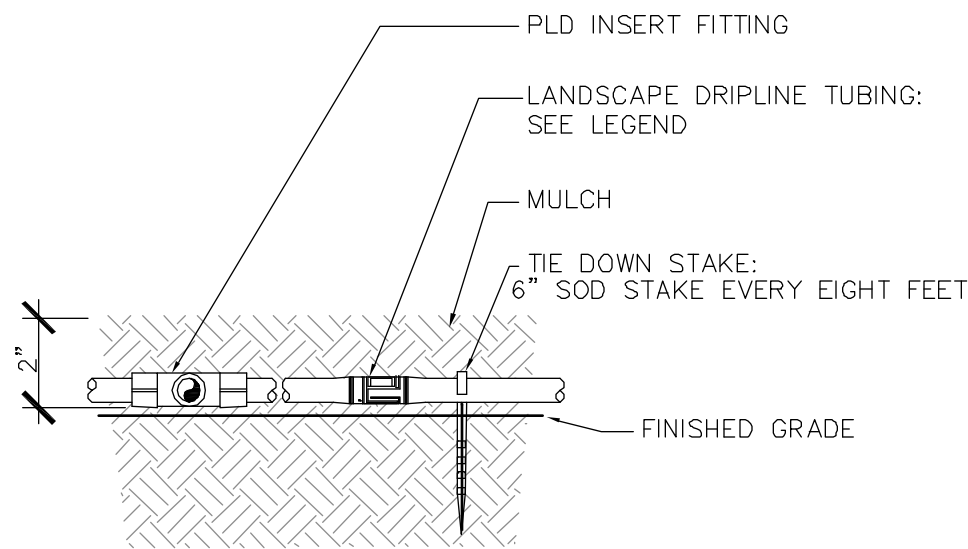
SCH. 80 NIPPLE TO FIRSTS FITTING

INSTALL TOP OF VALVE A MAXIMUM OF 15" FROM FINISHED GRADE.

1 ZONE VALVE INSTALLATION DETAIL
N.T.S.

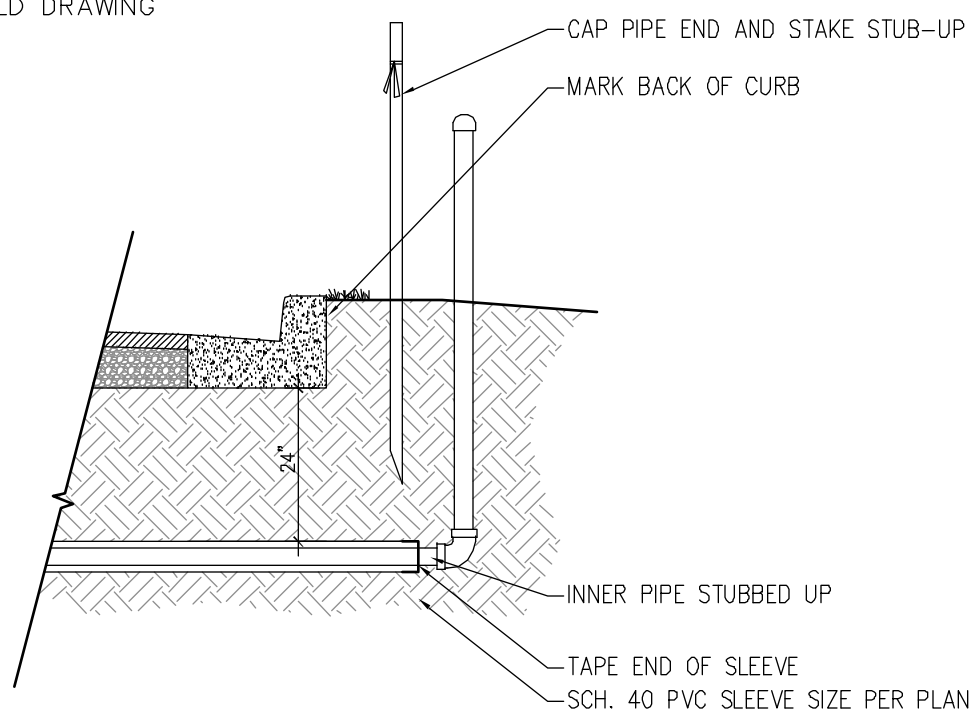


2 SPRAY HEAD INSTALLATION DETAIL
N.T.S.

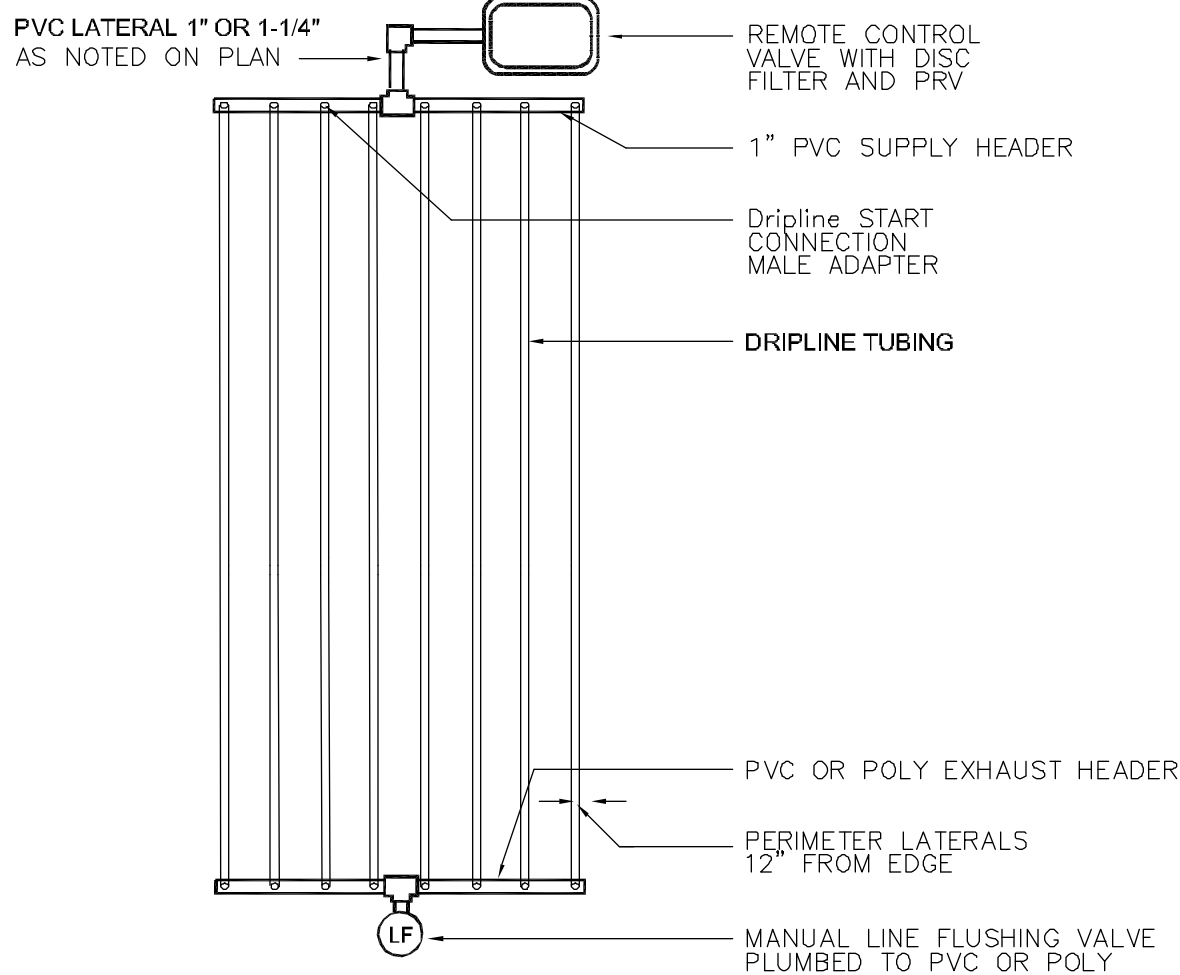


3 DRIPLINE ISNTALLATION DETAIL
N.T.S.

PROVIDE MEASUREMENTS FROM 2
REFERENCE POINTS TO STUB UP ON
THE AS-BUILD DRAWING

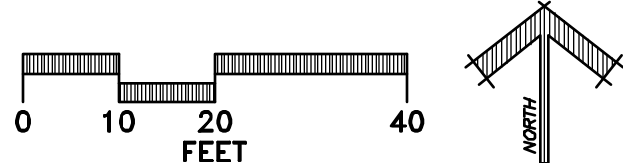
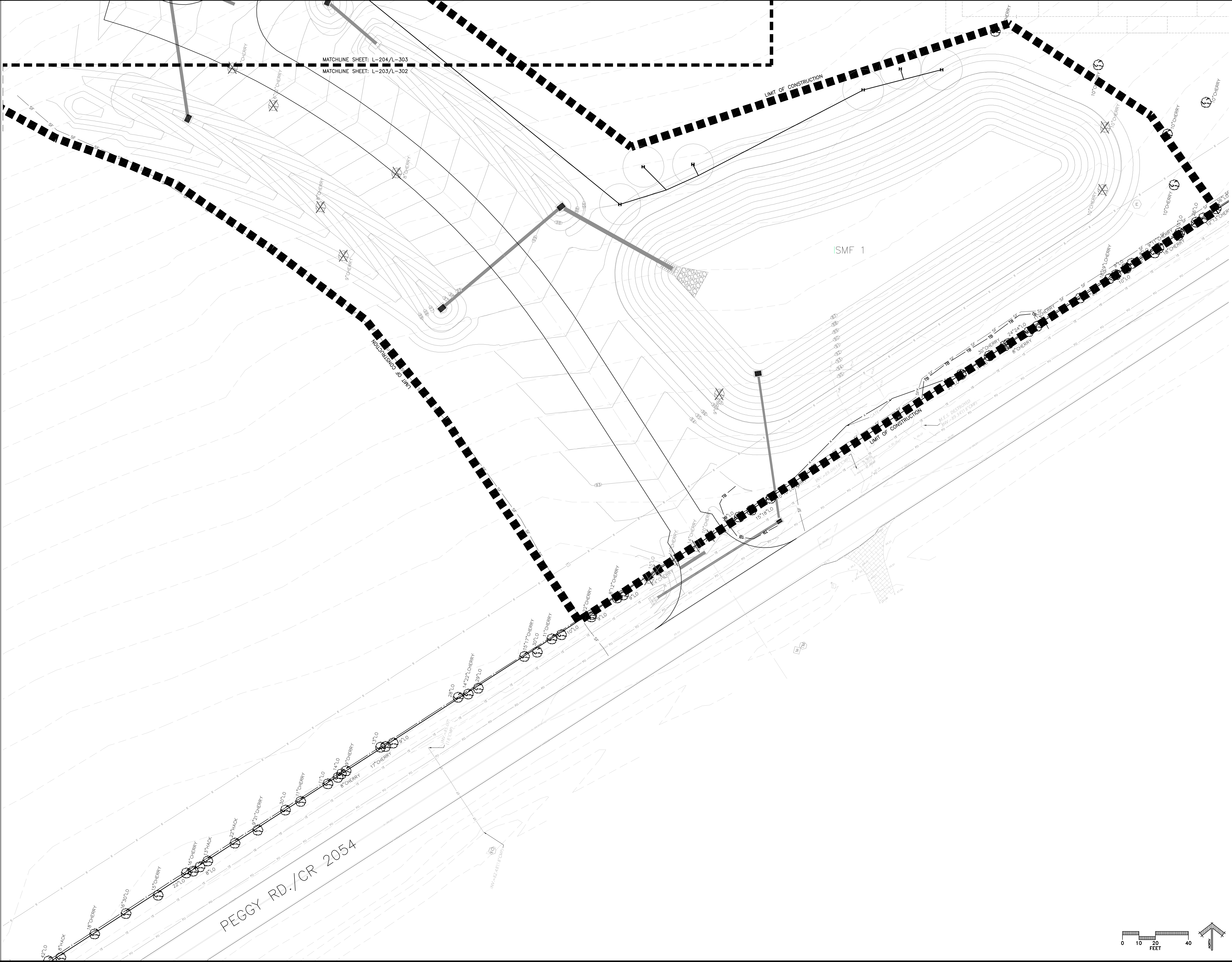


4 SLEEVING ROUGH-IN DETAIL
N.T.S.



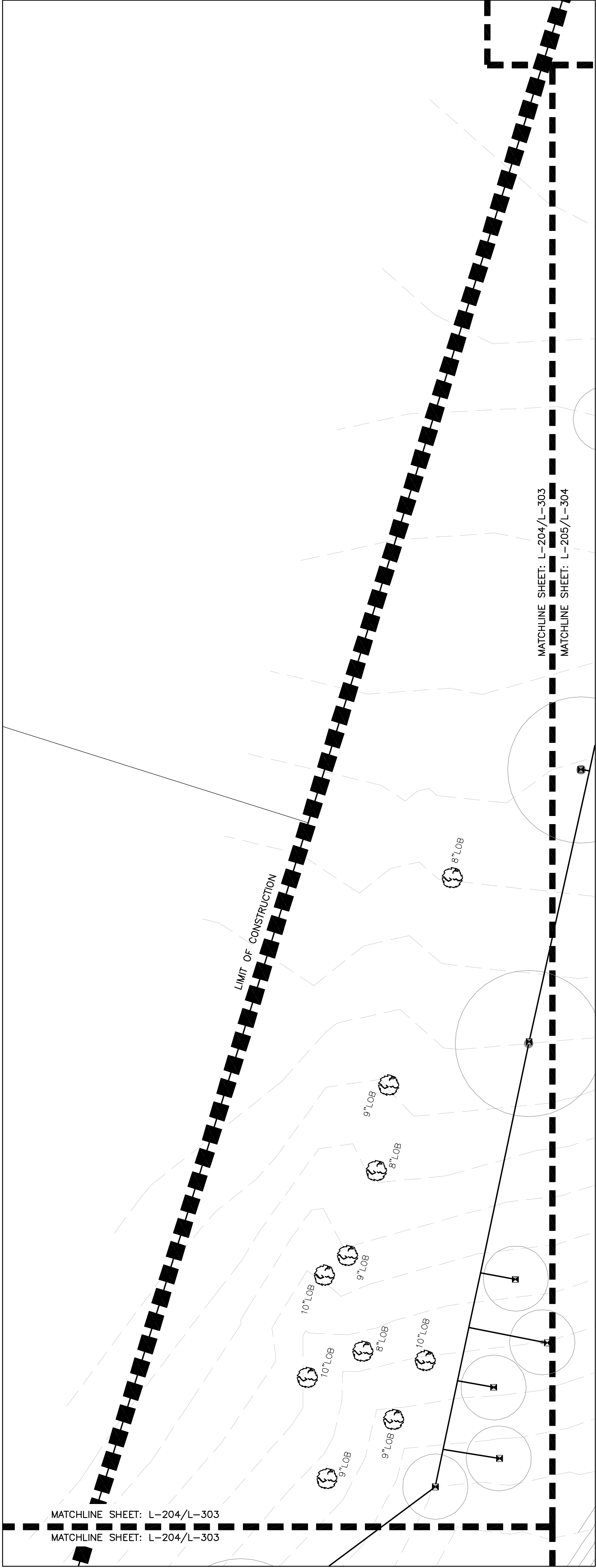
5 DRIP ZONE LAYOUT
N.T.S.

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CITY OF ALACHUA LEGACY PARK MULTI-PURPOSE CENTER & RELATED FACILITIES ALACHUA, FLORIDA	REVISIONS ITEM: _____ DATE: _____	DRAWN BY: CEMBY DATE: FEBRUARY 22, 2016 PROJECT NO.: 15-040
	LANDSCAPE ARCHITECT'S SEAL	
	SHEET NO. L-302 BDA No. 15-088	
PZB SUBMITTAL IRRIGATION PLAN	Buford Davis + Associates Landscape Architects and Planners 2406 NW 43rd Street Gainesville, FL 32608 352.373.1896 TEL 352.373.6407 FAX	

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CITY OF ALACHUA
LEGACY PARK
MULTI-PURPOSE CENTER & RELATED FACILITIES
ALACHUA, FLORIDA

REVISIONS	DATE	LANDSCAPE ARCHITECT'S SEAL
ITEM:		

SHEET NO.
L-303

BDA No. 15408

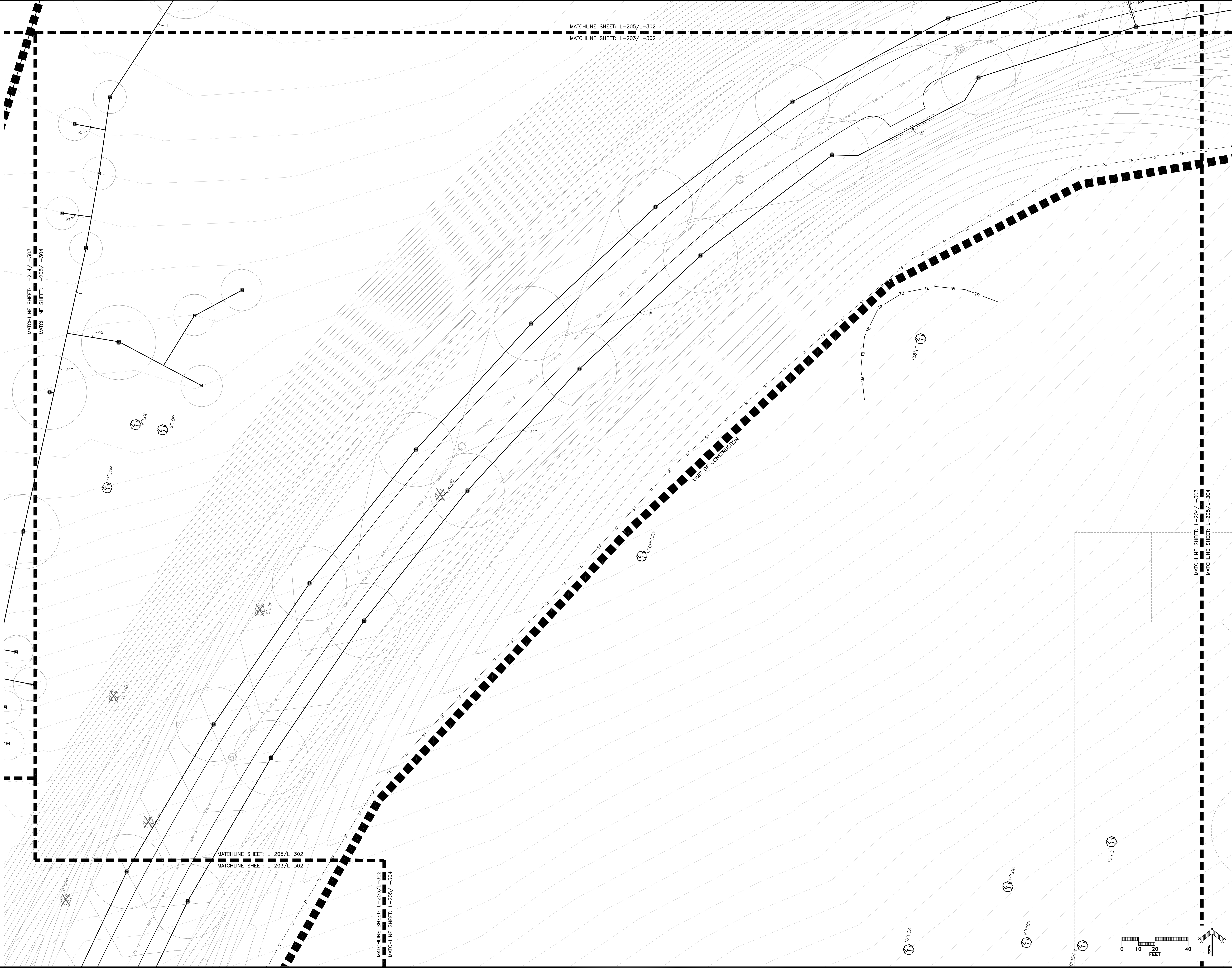
PZB SUBMITTAL
IRRIGATION PLAN



Buford Davis + Associates
Landscape Architects and Planners
2406 NW 43rd Street
Gainesville, FL 32606
352.373.1896 T
352.373.6407 F
15-540

DRAWN BY:
CMBY
DATE:
FEBRUARY 22, 2016
PROPOSAL NO.:

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MATCHLINE SHEET: L-205/L-302
MATCHLINE SHEET: L-203/L-302

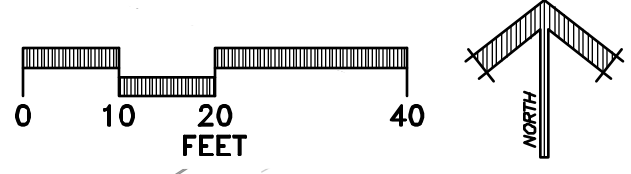


	CITY OF ALACHUA LEGACY PARK MULTI-PURPOSE CENTER & RELATED FACILITIES ALACHUA, FLORIDA	REVISIONS	
		DATE	ITEM
		LANDSCAPE ARCHITECT'S SEAL	
SHEET NO. L-305		PZB SUBMITTAL IRRIGATION PLAN	
BDA No. 15408		Buford Davis + Associates Landscape Architects and Planners 2406 NW 43rd Street Gainesville, FL 32608 352.373.1896 FAX 352.373.6407 FAX PROPOSAL NO: 15-040	

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MATCHLINE SHEET: L-204/L-303
MATCHLINE SHEET: L-205/L-304

MATCHLINE SHEET: L-208/L-307
MATCHLINE SHEET: L-207/L-306



CITY OF ALACHUA
LEGACY PARK
MULTI-PURPOSE CENTER & RELATED FACILITIES
ALACHUA, FLORIDA

REVISIONS	DATE	ITEM

SHEET NO.
L-306

BDA No. 15408

PZB SUBMITTAL
IRRIGATION
PLAN

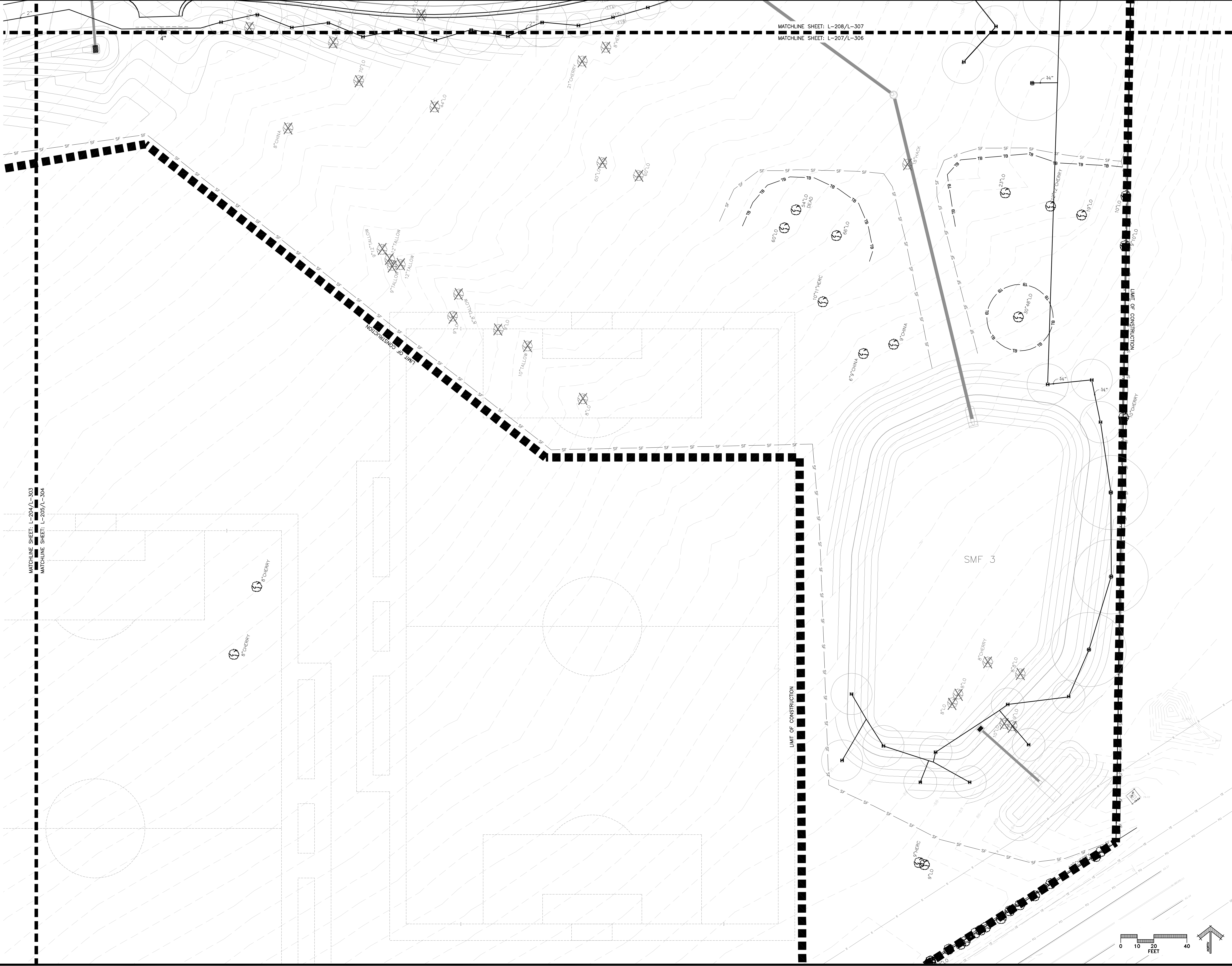


Buford Davis + Associates
Landscape Architects and Planners
2406 NW 43rd Street
Gainesville, FL 32608
352.373.1896 FAX
352.373.6407 FAX
12-540

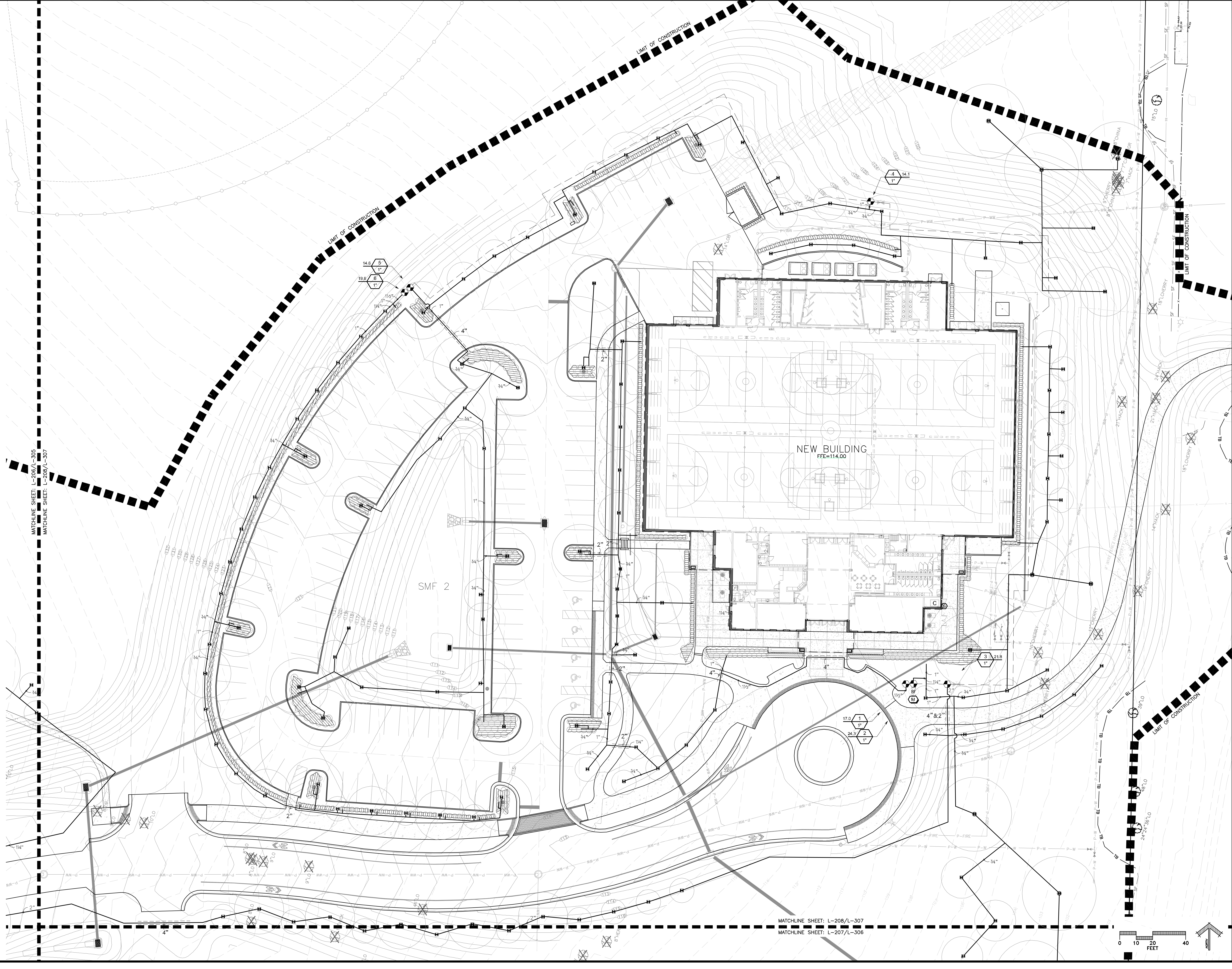
DRAWN BY:
CEMBY

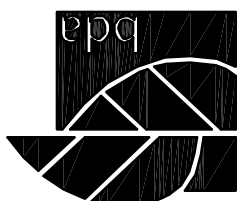
DATE:
FEBRUARY 2, 2016

PROPOSAL NO.:



ANY MODIFICATIONS TO THESE PLANS OR RE-USE OF THESE PLANS MUST BE APPROVED BY AND SIGNED BY THE ARCHITECT



REVISIONS		DATE	LANDSCAPE ARCHITECT'S SEAL	SHEET NO. L-307
NO.	DESCRIPTION			
ANY MODIFICATIONS TO THESE PLANS OR RE-USE OF THESE PLANS MUST BE APPROVED BY AND SIGNED BY THE ARCHITECT				
CITY OF ALACHUA				
LEGACY PARK				
MULTI-PURPOSE CENTER & RELATED FACILITIES				
ALACHUA, FLORIDA				
PZB SUBMITTAL		IRRIGATION PLAN		
<div><div>Buford Davis + Associates, Inc. Landscape Architects and Planners 2406 NW 43rd Street Gainesville, FL 32608 352.373.6407 FAX 352.373.6407 FAX</div><div>DATE FEBRUARY 22, 2016 PROPOSAL NO. 15-040</div></div>				
DRAWN BY: CEMBY				

ANY MODIFICATIONS TO THESE PLANS OR RE-USE OF THESE PLANS MUST BE APPROVED BY AND SIGNED BY THE ARCHITECT

ABBREVIATIONS

ABV.	ABOVE
AV.	AIR ADMITTANCE VALVE
AF	ABOVE FINISHED FLOOR
BOT	BOTTOM
BV	BALL VALVE
CD	CONDENSATE DRAIN
CP	CHROME PLATED
CLG	CEILING
CO	CLEANOUT
CW	COLD WATER
DN	DOWN
D	DRAIN
EW	ELECTRIC WATER HEATER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FL	FLOOR
OCO	GRADE CLEANOUT
GPF	GALLONS PER FLUSH
GPM	GALLONS PER MINUTE
GV	GATE VALVE
HB	HOSE BIBB
HW	HOT WATER
INV	INVERT (VERIFY IN FIELD)
MAX	MAXIMUM
MIN	MINIMUM
S	SANITARY
TW	THERMOSTATIC MIXING VALVE
TP	TYPICAL
UN	UNLESS OTHERWISE NOTED
V	VENT
VR	VENT THRU ROOF
VF	VERIFY IN FIELD
W	WASTE
WD	WITH DEEP SEAL TRAP (SVC)
WCO	WALL CLEANOUT
WH	WALL HYDRANT

ISOMETRIC SYMBOLS

	WATER CLOSET
	URINAL
	LAVATORY
	WALL CLEANOUT
	FLOOR CLEANOUT
	FLOOR DRAIN WITH TRAP GUARD CONNECTION AND DEEP SEAL TRAP

PIPING

	NEW SANITARY AND/OR WASTE PIPING
	NEW VENT PIPING
	NEW COLD WATER PIPING
	NEW HOT WATER PIPING
	HAMMER ARRESTOR (PDI SIZE INDICATED)
	CONDENSATE DRAIN
	CLEANOUT IN FLOOR
	FLOOR DRAIN
	WALL CLEANOUT EXPOSED
	VALVE IN RISER
	DIRECTION OF FLOW
	TOP CONNECTION, 45 OR 90 DEG.
	BOTTOM CONNECTION, 45 OR 90 DEG.
	SIDE CONNECTION
	DROP IN PIPING
	RISE IN PIPING
	BALL VALVE
	HOSE BIBB WITH VACUUM BREAKER
	EXTERIOR WALL HYDRANT IN RECESSED BOX
	POINT OF INTERFACE BETWEEN CONTRACTORS

NOTE:

THESE ARE STANDARD SYMBOLS AND GENERAL NOTES AND MAY NOT ALL APPEAR ON THE PROJECT DRAWINGS; HOWEVER WHEREVER THE SYMBOL APPEARS ON THE PROJECT DRAWINGS, THE ITEM SHALL BE PROVIDED AND INSTALLED.

PLUMBING FIXTURE SCHEDULE

MARK	ITEM	COLD WATER	HOT WATER	SANITARY AND/OR WASTE	VENT
WC	WATER CLOSET: AMERICAN STANDARD MADERA FLOWISE #3451.001 FLOOR MOUNTED ELONGATED BOWL, VITREOUS CHINA, 12" ROUGH FLUSH VALVE: SLOAN OPTIMA SMOOTH MODEL 111-1.6 GPF SIDE MOUNTED BATTERY OPERATED NON-DIAPHRAGM SENSOR SHALL BE INSTALLED ON WIDE SIDE OF TOILET ROOM SEAT: BEIMS MODEL #3155C. COMMERCIAL SOLID ELONGATED PLASTIC OPEN FRONT WITH COVER COLOR BY ARCHITECT	1"	-	3"	2"
WCH	WATER CLOSET: AMERICAN STANDARD MADERA FLOWISE #3461.001 FLOOR MOUNTED ELONGATED BOWL, VITREOUS CHINA, 12" ROUGH FLUSH VALVE: SLOAN OPTIMA SMOOTH MODEL 111-1.6 GPF SIDE MOUNTED BATTERY OPERATED NON-DIAPHRAGM PISTON FLUSH SENSOR SHALL BE INSTALLED ON WIDE SIDE OF TOILET ROOM SEAT: BEIMS MODEL #3155C. COMMERCIAL SOLID ELONGATED PLASTIC OPEN FRONT WITH COVER COLOR BY ARCHITECT	1"	-	3"	2"
UR	URINAL: AMERICAN STANDARD TRIMBROOK 6561.017, SIPHON JET FLUSH ACTION, WALL MOUNTED, TOP SPUD, VITREOUS CHINA, LOW CONSUMPTION (1.0 GPF) FLUSH VALVE: SLOAN OPTIMA SMOOTH MODEL 186-1.0 GPF SIDE MOUNTED BATTERY OPERATED NON-DIAPHRAGM PISTON FLUSH INSTALL LIP AT 24" HIGH ABOVE FINISHED FLOOR CARRIER: ZURN Z1222 WITH LOWER BEARING PLATE REFER TO ARCHITECTURAL DRAWING FOR MOUNTING HEIGHTS	3/4"	-	2"	2"
URH	URINAL: AMERICAN STANDARD TRIMBROOK 6561.017, SIPHON JET FLUSH ACTION, WALL MOUNTED, TOP SPUD, VITREOUS CHINA, LOW CONSUMPTION (1.0 GPF) FLUSH VALVE: ZURN #26003W INSTALL LIP AT 17" HIGH ABOVE FINISHED FLOOR CARRIER: ZURN Z1222 WITH LOWER BEARING PLATE REFER TO ARCHITECTURAL DRAWING FOR MOUNTING HEIGHTS	3/4"	-	2"	2"
LAV	LAVATORY: ELKAY LK16156 COUNTER MOUNTED STAINLESS STEEL, 19" X 16" 18 GAUGE, FRONT OVERFLOW FAUCET: SLOAN OPTIMA PLUS EBF-650, BATTERY POWERED, WITH GRID DRAIN AND TAILPIECE TRAP: ZURN 1-1/4" X 1 1/2" CHROME PLATED 17 GAUGE P TRAP WITH CLEANOUT OFFSET TAILPIECE SUPPLIES: BRASSCRAFT 1/2" X 3/8" X 12" CHROME PLATED LEAD FREE FLEXIBLE SUPPLIES AND LOOSE KEY STOPS	1/2"	1/2"	2"	2"
LAVH	LAVATORY: AMERICAN STANDARD LUCERN # D355.012 WALL MOUNTED VITREOUS CHINA, 20" X 18" VITREOUS CHINA, 4" CENTERS, FRONT OVERFLOW FAUCET: SLOAN OPTIMA PLUS EBF-650, BATTERY POWERED, WITH GRID DRAIN AND TAILPIECE TRAP: ZURN 1-1/4" X 1 1/2" CHROME PLATED 17 GAUGE P TRAP WITH CLEANOUT SUPPLIES: BRASSCRAFT 1/2" X 3/8" X 12" CHROME PLATED LEAD FREE FLEXIBLE SUPPLIES AND LOOSE KEY STOPS CARRIER: ZURN Z1231 CONCEALED ARM CARRIER INSULATE WASTE AND WATER SUPPLIES BELOW LAVATORY WITH TRUEBRO PIPE INSULATION	1/2"	1/2"	2"	2"
LAV-1	LAVATORY: AMERICAN STANDARD LUCERN # D355.012 WALL MOUNTED VITREOUS CHINA, 20" X 18" VITREOUS CHINA, 4" CENTERS, FRONT OVERFLOW FAUCET: SYMMONS SYMMETRIX S-20-2-1.5 SINGLE LEVER FAUCET WITH POP UP DRAIN AND TAILPIECE TRAP: ZURN 1-1/4" X 1 1/2" CHROME PLATED 17 GAUGE P TRAP WITH CLEANOUT SUPPLIES: BRASSCRAFT 1/2" X 3/8" X 12" CHROME PLATED LEAD FREE FLEXIBLE SUPPLIES AND LOOSE KEY STOPS CARRIER: ZURN Z1231 CONCEALED ARM CARRIER INSULATE WASTE AND WATER SUPPLIES BELOW LAVATORY WITH TRUEBRO PIPE INSULATION	1/2"	1/2"	2"	2"
EW	ELECTRIC WATER HEATER: ELKAY #251200 B-LEVEL, WALL MOUNTED, STAINLESS STEEL TOP WITH FRONT AND SIDE PUSH PADS, BUBBLER WITH FLEX-GUARD ANTI-MICROBIAL SAFETY BUBBLER TRAP: ZURN 1-1/4" X 1 1/2" PVC SCHEDULE 40 WASTE: ZURN 1-1/4" X 1 1/2" PVC SCHEDULE 40 END OUTLET WASTE SUPPLY: ZURN 1/2" X 3/8" X 12" CHROME PLATED LEAD FREE FLEXIBLE SUPPLY AND WHEEL HANDLE STOP CARRIER: ZURN Z1225 FLOOR MOUNTED WALL CARRIER REFER TO ARCHITECTURAL DRAWING FOR MOUNTING HEIGHTS	1/2"	-	2"	1-1/2"
SH	SHOWER: AQUARIUS ONE PIECE ACRYLIC INSTITUTIONAL, ADA COMPLIANT, MODEL H 4136 BF BARRIER FREE SHOWER, WITH FOLD DOWN SEAT AND STANDARD ACCESSORIES, COLOR SELECTION BY ARCHITECT. SHOWER VALVE: SYMMONS S-96-300-830-L-V HAND HELD SHOWER HEAD, SOLID LEVER HANDLE,	1/2"	1/2"	2"	2"
MS	MOP SINK: FLOOR MOUNTED, 24" X 24" ONE PIECE STRUCTURAL FIBREGLASS, FAT WITH STRAINER, MOLD IN DRAIN FAUCET: T & S B-0665-BSTP SERVICE SINK FAUCET WITH VACUUM BREAKER ACCESSORIES: FAT MOP HOLDER FAT HOSE HOLDER MOP SINK SPLASHES: STAINLESS STEEL SPLASH GUARDS AT EACH WALL CONTACTING MOP SINK	1/2"	1/2"	3"	2"
SK	SINK: ELKAY LK1722 DROP-IN SINGLE COMPARTMENT 17" X 22" X 6-1/2" 18 GAUGE STAINLESS STEEL FAUCET: ZURN Z2702-PC 1-1/2" X 1 1/2" CHROME PLATED SINGLE LEVER FAUCET STRAINER: ZURN Z8741 STAINLESS STEEL HEAVY DUTY BASKET STRAINER TRAP: ZURN Z8702-PC 1-1/2" X 1 1/2" CHROME PLATED 17 GAUGE P TRAP WITH CLEANOUT SUPPLIES: ZURN 1/2" X 3/8" X 12" CHROME PLATED LEAD FREE FLEXIBLE SUPPLIES AND WHEEL HANDLE STOPS	1/2"	1/2"	2"	1-1/2"
SK-1	SINK: ELKAY LK3321 COUNTERTOP DOUBLE COMPARTMENT 33" X 21-1/4" X 8" DEEP, 3 HOLE 18 GAUGE STAINLESS STEEL FAUCET: ELKAY LK1000CR DECK MOUNTED SINGLE LEVER FAUCET WITHOUT SIDE SPRAY STRAINER: ZURN Z8741 STAINLESS STEEL HEAVY DUTY BASKET STRAINER TRAP: ZURN Z8702-PC 1-1/2" X 1 1/2" CHROME PLATED 17 GAUGE P TRAP WITH CLEANOUT CONTINUOUS WASTE: ZURN Z8761 1-1/2" 20 GAUGE SUPPLIES: ZURN 1/2" X 3/8" X 12" CHROME PLATED LEAD FREE FLEXIBLE SUPPLIES AND WHEEL HANDLE STOPS	1/2"	1/2"	2"	1-1/2"
MR	ICE MAKER BOX: 20 GAUGE WHITE POWDER COATED RECESSED MOUNTED WALL BOX, 1/4 TURN VALVE WITH HAMMER ARRESTOR, GRAY GAY MODEL MB18A	1/2"	-	-	-
WH	EXTERIOR WALL HYDRANT: BRASS FACE, BOX AND DOOR WITH INTEGRAL VACUUM BREAKER - BACKFLOW PREVENTER, 3/4" CONNECTION - FREEZE PROOF WOODFORD MODEL #BBS PB, MOUNT 18" ABOVE GRADE	3/4"	-	-	-
HB	INTERIOR HOSE BIBB: ZURN Z 1330-SS -BPP STAINLESS STEEL CASING WITH STAINLESS STEEL HINGED COVER INTEGRAL VACUUM BREAKER - BACKFLOW PREVENTER, 3/4" MOUNT 18" ABOVE FLOOR IN A RECESSED WALL BOX.	1/2"	-	-	-
HB-1	INTERIOR HOSE BIBB: T & S B-0736-POL WITH INTEGRAL VACUUM BREAKER - BACKFLOW PREVENTER, MOUNT 18" ABOVE FLOOR IN MECHANICAL ROOMS	1/2"	-	-	-
ED	FLOOR DRAIN: ZURN Z4155 5" INCH SQUARE NICKALOY TOP STRAINER OPTIONS: PROVIDE WITH NO-HUB SVC DEEP SEAL 1/2" TRAP, PDI-SEAL TRAPGUARD	-	-	4"	-
WCO	WALL CLEANOUT: ZURN Z1441 ROUND WITH SMOOTH STAINLESS STEEL COVER, CENTER SCREW, AND RECESSED BRONZE THREADED TAPPED PLUG.	-	-	SEE DRAWINGS	-
FCO	FLOOR CLEANOUT: ZURN Z1400 ROUND ADJUSTABLE SCORLATED NICKEL BRONZE TOP WITH TAPER THREAD.	-	-	SEE DRAWINGS	-
WHA	WATER HAMMER ARRESTORS: SIOUX CHEF 660 HYDRA-RESTER COMMERCIAL SERIES PISTON TYPE TYPE L COPPER TUBE	-	-	-	-
EW	ELECTRIC WATER HEATER: A.O. SMITH PCS-30 (2) 4500 WATT ELEMENTS, 208/1/60 ENERGY FACTOR .83 IN DRAIN PAN ON GALVANIZED STAND 10 YEAR WARRANTY OPEN END 3/4" RELIEF LINE ABOVE DRAIN PAN AND 1" PAN DRAIN OPEN END 2" ABOVE FLOOR DRAIN (SEE DETAIL FOR FURTHER INFORMATION)	1"	1"	-	-

SPECIFICATIONS

- BASIC MATERIAL AND METHODS
- SCOPE OF WORK
PROVIDE LABOR AND MATERIALS AS REQUIRED TO PROVIDE A FULLY FUNCTIONING AND COMPLETE SYSTEM AS INDICATED ON DRAWINGS. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND EQUIPMENT. FINAL LOCATIONS OF EQUIPMENT SHALL BE FIELD DETERMINED. ALL DISCREPANCIES ON DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING PRIOR TO SUBMISSION OF BIDS.
- GENERAL AND SPECIAL CONDITIONS
ALL DIVISION 1 SPECIFICATIONS AND ARCHITECTURAL GENERAL AND SPECIAL CONDITIONS OUTLINED IN THE CONTRACT DOCUMENTS APPLY TO MECHANICAL SYSTEMS. ADDITIONAL WORK SHALL COMPLY WITH FLORIDA BUILDING CODE (2010) ORDINANCES AND REGULATIONS OF THE LOCAL AUTHORITY HAVING JURISDICTION, NATIONAL FIRE PROTECTION AND NATIONAL ELECTRICAL CODE. ALL EQUIPMENT SHALL CARRY THE UNDERWRITER'S LABORATORIES (UL) SEAL WHERE APPLICABLE.
- QUALITY CONTROL
UNLESS OTHERWISE NOTED, PROVIDE NEW MATERIALS FREE OF DEFECTS, WHERE NO SPECIFIC WEIGHTS OR GRADES ARE SPECIFIED PROVIDE MATERIALS OF AN ACCEPTED STANDARD WEIGHT AND GRADE ACCORDING TO CODE AND GOVERNING STANDARDS BY ASHRAE, SMACNA, NFPA AND UL. INSTALL ALL EQUIPMENT, PIPING, DUCTWORK AND CONTROLS IN ACCORDANCE WITH CODES, GOVERNING STANDARDS, AND MANUFACTURER'S RECOMMENDATIONS. FIRE PERFORMANCE CHARACTERISTICS OF INSTALLED MATERIALS SHALL BE RATED IN ACCORDANCE WITH ASTM E84. MAXIMUM SMOKE DEVELOPED RATING SHALL BE 50. SUPPLIED EQUIPMENT SHALL BE AS SCHEDULED OR OWNER APPROVED EQUAL IN QUALITY AND PERFORMANCE.
- COORDINATION
COORDINATE ALL WORK FOR PROPER LOCATION, POWER, AND UTILITY REQUIREMENTS. SCHEDULE INSTALLATIONS TO AVOID CONFLICT AMONG TRADES. ADDITIONS TO THE CONTRACT FOR COORDINATION AMONG TRADES WILL NOT BE ALLOWED.
- PENETRATIONS, CUTTING AND PATCHING
SEAL ALL PIPING PENETRATIONS OF WALLS IN ACCORDANCE WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. PIPING PENETRATIONS OF RATED FLOORS AND WALLS SHALL BE SEALED WITH FIRE STOPPING MATERIAL. FLASH ALL ROOF AND WALL PENETRATIONS IN ACCORDANCE WITH ARCHITECTURAL DRAWINGS. PROVIDE FIRE DAMPERS AT ALL RATED PENETRATIONS.
- PIPING
WASTE AND/OR VENT PIPING ABOVE FLOOR SLAB: SCHEDULE 40 DWV PVC SOLID CORE
WATER PIPING BELOW FLOOR: TYPE K COPPER
WATER PIPING ABOVE FLOOR: TYPE L COPPER
VALVES: NIBCO OR EQUAL FULL PORT
HOT WATER PIPE INSULATION: 1" FIBERGLASS OWENS CORNING SSL II, ASJ
PIPE HANGERS: 3/8" THREADED ROD, WITH ADJUSTABLE BAND HANGER
- SUBMITTALS
SHOP DRAWINGS MUST BE SUBMITTED AND APPROVED PRIOR TO ORDERING EQUIPMENT. ENGINEER WILL REQUIRE

DRAWING INDEX

PLUMBING

P1.0 ABBREVIATIONS, LEGENDS, GENERAL NOTES AND SCHEDULE
P2.0 PLUMBING SITE UTILITY PLAN
P3.0 PLUMBING SANITARY AND VENT FLOOR PLAN
P4.0 PLUMBING DOMESTIC WATER FLOOR PLAN
P5.0 PLUMBING DETAILS
P6.0 PLUMBING SANITARY, VENT RISER DIAGRAM
P7.0 PLUMBING DOMESTIC WATER RISER DIAGRAM

PLUMBING GENERAL NOTES

- CONTRACTOR SHALL PROVIDE COMPLETE CODE COMPLIANT, PLUMBING SYSTEMS AS DETAILED ON THESE DRAWINGS. WORK CONSISTS OF FURNISHING ALL MATERIALS, EQUIPMENT, AND SERVICES REQUIRED FOR COMPLETE SYSTEMS. INCLUDE ANY INCIDENTAL APPARATUS, APPLIANCES, MATERIAL, LABOR AND SERVICES NECESSARY TO MAKE NEW WORK COMPLETE IN ALL RESPECTS AND FULLY READY FOR OPERATION.
- PRIOR TO ANY EXCAVATION OR DEMOLITION THE CONTRACTOR MUST COORDINATE HIS WORK WITH THE OTHER TRADES, THE OWNERS MAINTENANCE DEPARTMENT, AND ANY OTHER AVAILABLE SOURCE OF INFORMATION AS TO ABOVE OR BELOW GROUND SERVICES THAT SHALL BE AVOIDED.
- THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR CUTTING AND PATCHING THAT MAY BE REQUIRED DUE TO SCOPE OF WORK. COORDINATE WITH THE GENERAL CONTRACTOR.
- ALL PLUMBING WORK SHALL BE DESIGNED, INSTALLED, TESTED, AND CLEANED IN ACCORDANCE WITH FLORIDA PLUMBING CODE 2010, FLORIDA BUILDING CODE 2010 ENERGY CONSERVATION CODE - WITH ALL LATEST REVISIONS
- VERIFY THE EXACT LOCATION OF EXISTING SANITARY SEWER AND WATER SERVICE PIPING FROM THE ACTUAL JOB SITE PRIOR TO SUBMITTING BID. SUBMISSION OF YOUR PROPOSAL SHALL BE CONSIDERED AS INDICATING SUCH KNOWLEDGE. NO ADDITIONAL PAYMENT WILL BE MADE ON CLAIMS THAT ARISE FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT.
- MAKE SUCH OFFSETS AND DEVIATIONS FROM WORK SHOWN ON THE DRAWINGS, AS MAY BE NECESSARY TO FIT THE ACTUAL SPACE CONDITIONS.
- WHERE VALVES OCCUR ABOVE DRYWALL OR PLASTER OR ARE CONCEALED BEHIND WALLS, THIS CONTRACTOR SHALL FURNISH AND INSTALL ACCESS PANELS. COORDINATE COLOR AND STYLE WITH ENGINEER/ARCHITECT.
- PROVIDE AND MAINTAIN TEMPORARY CONNECTIONS TO KEEP EXISTING UTILITIES IN SERVICE. ANY SHUT DOWNS ARE TO BE APPROVED BY OWNER'S REPRESENTATIVE.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND ROUGHING DIMENSIONS OF ALL PLUMBING FIXTURES, DRAINS, ETC.
- INSTALLER SHALL NOT CUT ANY STRUCTURAL MEMBERS WITHOUT FIRST SECURING WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
- PROVIDE DIELECTRIC UNIONS AT ALL CONNECTIONS BETWEEN DISSIMILAR PIPING METALS.
- FIELD VERIFY ALL EXISTING PIPE SIZES PRIOR TO INSTALLATION.
- NO VENT THROUGH ROOF SHALL TERMINATE CLOSER THAN 10 FT. TO ANY OUTSIDE AIR INTAKE OR VENTILATION LOUVERS, DOORS, WINDOWS AND OTHER BUILDING OPENINGS.
- ALL SANITARY AND WATER PIPING UNDERGROUND SHALL BE A MINIMUM OF 14" BELOW FINISHED FLOOR UNLESS NOTED OTHERWISE.
- PIPING IN CONCRETE BLOCK WALLS SHALL BE INSTALLED AS BLOCK IS BEING LAID. DO NOT CUT BLOCK WALL.
- PROVIDE ALL SINKS AND LAVATORIES WITH SLIP JOINT TRAP FITTINGS FOR CLEANOUT.
- CONTRACTOR IS RESPONSIBLE TO ALSO CHECKING FIELD CONDITIONS PRIOR TO BIDDING AND REPORT ANY PROBLEMS/CONFLICTS TO THE ENGINEER WITHIN 24 HOURS OF DISCOVERY. ANY CHANGES RESULTING FROM CONDITIONS ARISING IN THE FIELD WHICH WERE NOT BROUGHT TO THE ENGINEER'S ATTENTION ARE TO BE MADE BY THIS CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER.
- ALL WORK IS TO BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE(1) YEAR FROM DATE OF FINAL ACCEPTANCE. ALL DEFECTS WHICH DEVELOP OR ARE DISCOVERED WITHIN THIS PERIOD SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
- UPON COMPLETION OF THE WORK UNDER THIS CONTRACT, THE CONTRACTOR SHALL REMOVE ALL TOOLS, APPLIANCES, SURPLUS MATERIALS, AND SCRAP. ALL IDENTIFIED EXISTING EQUIPMENT TO BE REMOVED SHALL BE TURNED OVER TO THE OWNER.
- WHEN CONFLICTS OCCUR IN SPECIFICATIONS OR IN THE DRAWINGS, OR BETWEEN EITHER, THE ITEMS OF GREATER QUANTITY OR HIGHER COST SHALL BE PROVIDED.
- THE CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES IN ORDER TO AVOID CONFLICTS.
- ALL NEW SANITARY, VENT, COLD AND HOT WATER PIPING SHALL BE PER SPECIFICATIONS.
- PROVIDE AIR CHAMBERS AT COLD AND HOT WATER CONNECTION TO ALL FIXTURES FOR SHOCK ABSORPTION PER SPECIFICATIONS.

KPI ENGINEERING, INC.

3200 QUINCY PALM DRIVE
JACKSONVILLE, FLORIDA 32216
TEL: 904.241-4488
FAX: 904.241-4488
www.kpi-engineering.com

DRAWN BY:
PHM/MLC/RBR
DATE:
JANUARY 2016
PROPOSAL NO:
KPT 15110

PAUL STRESSING ASSOCIATES, INC.
1817 MAIN STREET
SUITE 200
JACKSONVILLE, FLORIDA 32202
E-MAIL: paul@paulstressing.com
TELEPHONE (904) 482-8407 FAX (904) 482-8408 REGISTRATION NO. AD0073985 - C.A.N.C.
AD003577

CITY OF ALACHUA
LEGACY PARK
MULTI-PURPOSE CENTER & RELATED FACILITIES
ALACHUA, FLORIDA

REVISIONS
ITEM:

DATE:

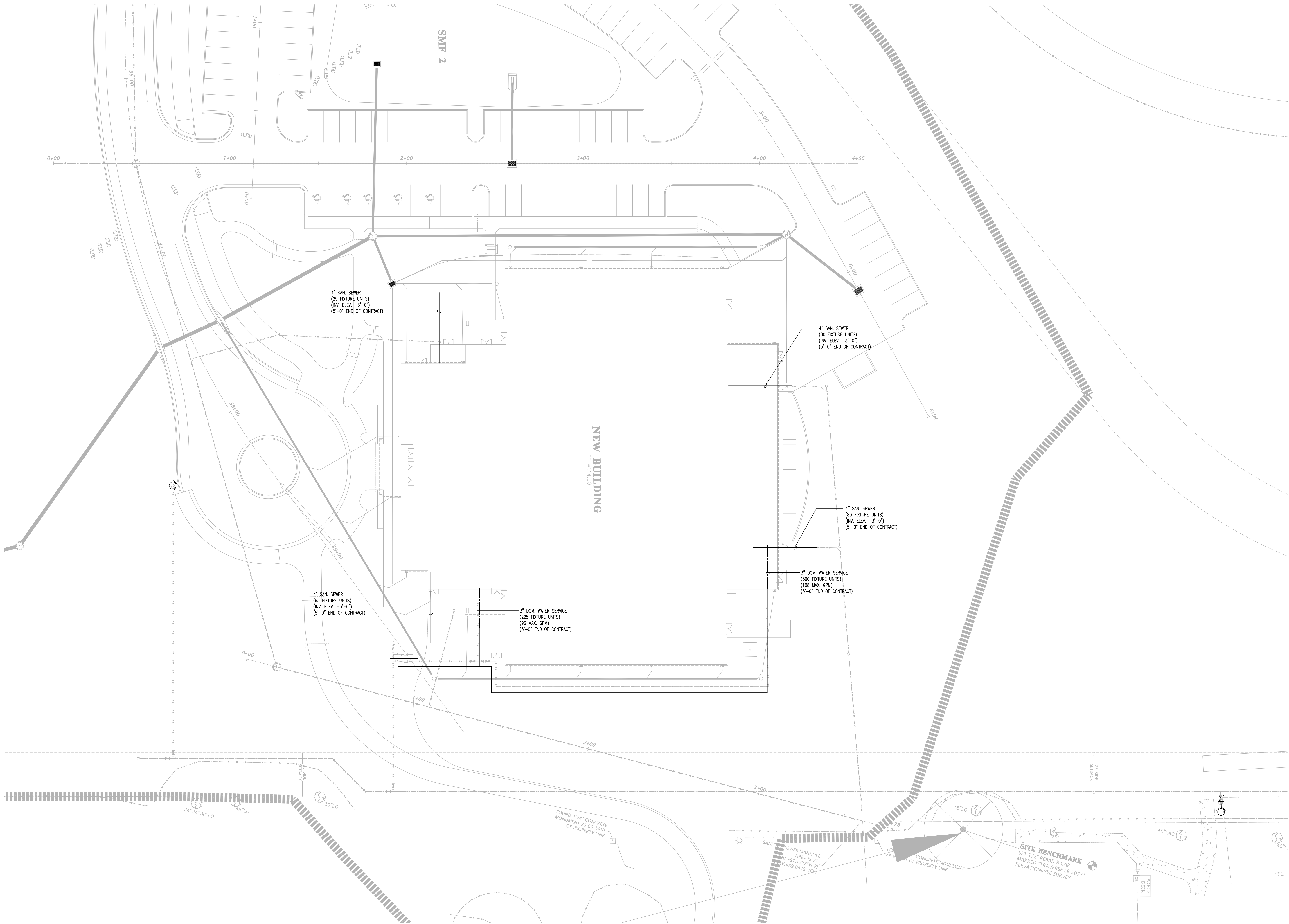
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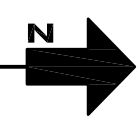
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PLUMBING SITE UTILITY PLAN

SCALE: 1"=20'-0"



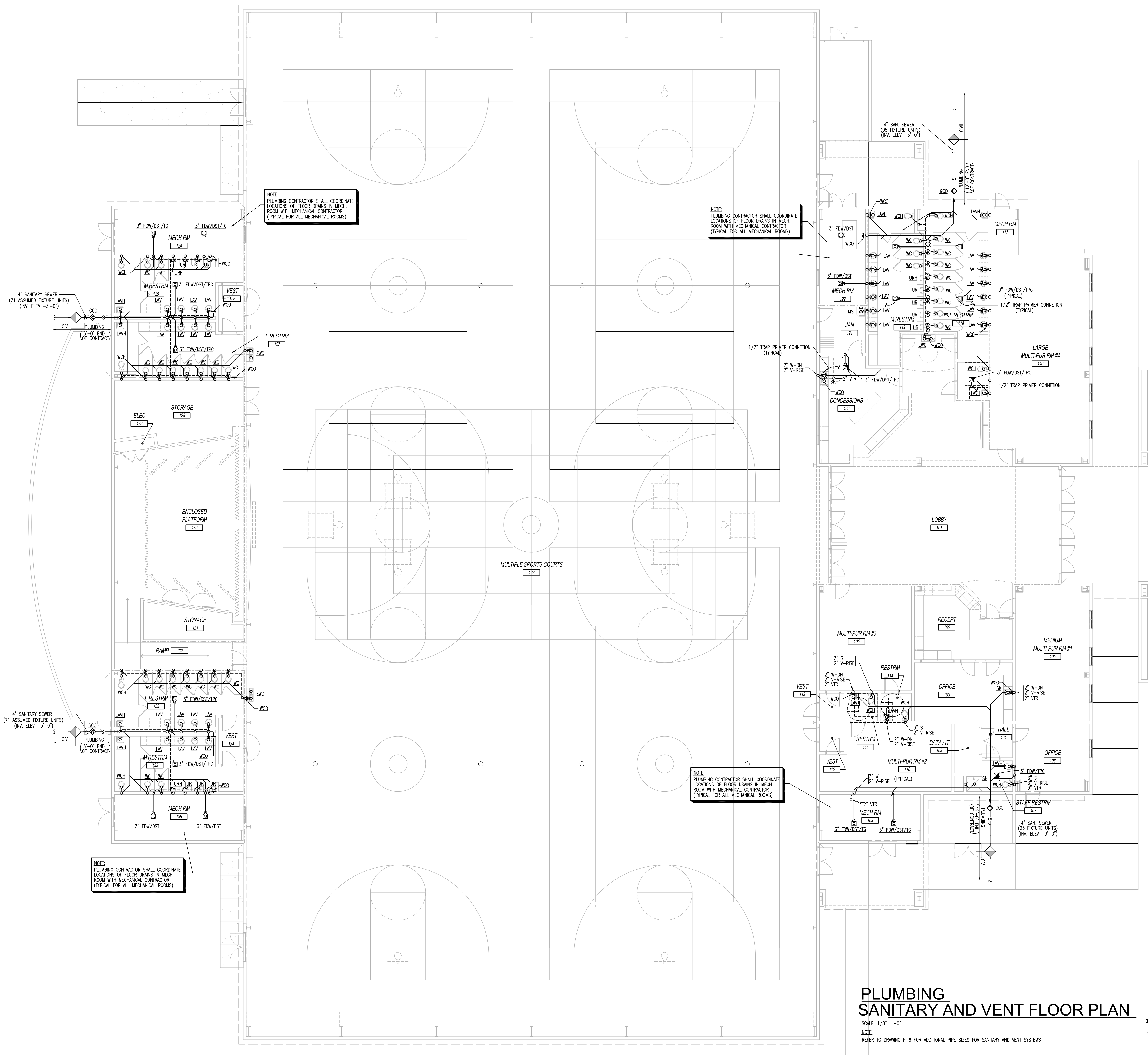
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	DRAWN BY: PHM/MLC/RDR DATE: JANUARY 2016 PROPOSAL NO.: KPI 15110	

PAUL STRESING ASSOCIATES, INC.

1807 MAIN STREET
ALACHUA, FLORIDA 32310
E-MAIL: paul@stresing.com
TELEPHONE: (386) 482-6407 FAX: (386) 482-6408 REGISTRATION NO. A00013985 - C.A.D.
A00025077

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PLUMBING
SANITARY AND VENT FLOOR PLAN

SCALE: 1/8"=1'-0"
NOTE:
REFER TO DRAWING P-6 FOR ADDITIONAL PIPE SIZES FOR SANITARY AND VENT SYSTEMS



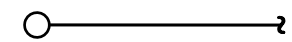
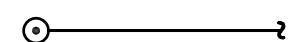
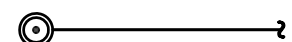


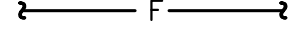
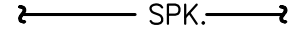
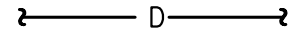





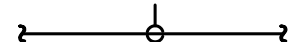


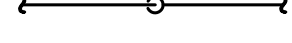
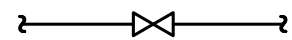
CITY OF ALACHUA LEGACY PARK MULTI-PURPOSE CENTER & RELATED FACILITIES ALACHUA, FLORIDA		PAUL STRESSING ASSOCIATES, INC. 1817 MAIN STREET ALACHUA, FLORIDA 32001 E-MAIL: paul@paulstressing.com TELEPHONE (888) 482-8407 FAX (386) 862-6008 REGISTRATION NO. A0013985 - C.A.D. KPI 151110
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ANY MODIFICATIONS TO THESE PLANS OR RE-USE OF THESE PLANS MUST BE APPROVED BY AND SIGNED BY THE ARCHITECT

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
CLO	CEILING
DI	DUCTILE IRON PIPE
D	DRAIN
DN	DOWN
EL	ELEVATION
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FH	FIRE HYDRANT
FL	FLOOR
F	FIRE MAIN
FS	FLOW SWITCH
GPM	GALLONS PER MINUTE
GRV	GROOVED
MAX	MAXIMUM
MIN	MINIMUM
NC	NORMALLY CLOSED
NO	NOT IN CONTRACT
NO	NORMALLY OPEN
SPK.	SPRINKLER
TS	TAMPER SWITCH
Typ	TYPICAL
UON	UNLESS OTHERWISE NOTED
VIF	VERIFY IN FIELD

LEGEND

	SPRINKLER HEAD – BRASS UPRIGHT (SEE SCHEDULE)
	SPRINKLER HEAD – WHITE PENDENT (SEE SCHEDULE)
	SPRINKLER HEAD – WHITE PENDENT CONCEALED (SEE SCHEDULE)
	SPRINKLER HEAD – WHITE SIDEWALL 200°F (SEE SCHEDULE)
	NEW FIRE SERVICE PIPING
	NEW SPRINKLER PIPING
	NEW DRAIN PIPING
	VALVE IN RISER
	FLUSHING CONNECTION
	DIRECTION OF FLOW
	TOP CONNECTION, 45 OR 90 DEG.
	BOTTOM CONNECTION, 45 OR 90 DEG.
	SIDE CONNECTION
	RISE OR DROP IN PIPE
	GATE VALVE
	CHECK VALVE
	BALL VALVE
	BUTTERFLY VALVE

NOTE:

THESE ARE STANDARD SYMBOLS AND GENERAL NOTES AND MAY NOT ALL APPEAR. SYMBOL APPEARS ON THE PROJECT DRAWINGS, THE ITEM SHALL BE PROVIDED AND INSTALLED.



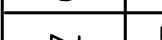
FIRE PROTECTION LIGHT HAZARD DESIGN CRITERIA

- First Floor
- Fire Protection system to be designed to NFPA 13 (2010) and Authority having jurisdiction
- Hazard Type: Light hazard
- Sprinkler Head Design Area: 196 sq.ft.
- Sprinkler Head Density: .10 gpm/sq.ft.
- Sprinkler Head Response Type: Quick Response
- System Coverage Area: Most remote 1500 sq.ft.
- Sprinkler Head Temperature Rating: 155 degree F
- All materials to be UL Listed and/or Factory Mutual approved.
- All piping shall be pressure tested at 200 psi for 2 hour as per NFPA-13.
- Fire sprinkler system to be centrally monitored.
- Main piping 2-1/2" and larger shall be black steel schedule 10 with roll grooved ends utilizing grooved couplings and fittings, outlets to be welded groove-o-lets.
- Branch piping 2" and under shall be black steel schedule 40 Threaded ends
- Provide signed and sealed hydraulic calculations.

FIRE PROTECTION ORDINARY HAZARD DESIGN CRITERIA

- Mechanical Rooms
- Fire Protection system to be designed to NFPA 13 (2010) and Authority having jurisdiction
- Hazard Type: Ordinary hazard (Group #1)
- Sprinkler Head Design Area: 120 sq.ft.
- Sprinkler Head Density: .15 gpm/sq.ft.
- Sprinkler Head Response Type: Quick Response
- System Coverage Area: Most remote 1500 sq.ft.
- Sprinkler Head Temperature Rating: 155 degree F
- All materials to be UL Listed and/or Factory Mutual approved.
- All piping shall be pressure tested at 200 psi for 2 hour as per NFPA-13.
- Fire sprinkler system to be centrally monitored.
- Main piping 2-1/2" and larger shall be black steel schedule 10 with roll grooved ends utilizing grooved couplings and fittings, outlets to be welded groove-o-lets.
- Branch piping 2" and under shall be black steel schedule 40 Threaded ends
- Provide signed and sealed hydraulic calculations.

FIRE SPRINKLER HEAD SCHEDULE

SYMBOL	NAME	METAL FINISH	TEMPERATURE	K-FACTOR	SIN	N.P.T.	ESCHUTCHCON	MANUFACTURER	MODEL
	UPRIGHT	BRASS	155° F	5.6	VK300	1/2"	N/A	VIKING	M OR
	RECESSED PENDENT	WHITE	155° F	5.6	VK302	1/2"	RECESSED	VIKING	M OR
	HORIZONTAL SIDEWALL	WHITE	200° F	5.6	VK305	1/2"	RECESSED	VIKING	OR

FIRE PROTECTION GENERAL NOTES

1. FIRE PROTECTION WORK SHALL BE DESIGNED, INSTALLED, AND TESTED IN ACCORDANCE WITH NFPA 13 LATEST EDITION OR AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION.
2. INCLUDE ANY INCIDENTAL APPARATUS, APPLIANCES, MATERIAL LABOR AND SERVICES NECESSARY TO MAKE NEW WORK COMPLETE IN ALL RESPECTS AND FULLY READY FOR OPERATION.
3. MAKE SUCH OFFSETS AND DEVIATIONS FROM WORK SHOWN ON THE DRAWINGS, AS MAY BE NECESSARY TO FIT THE ACTUAL SPACE CONDITIONS.
4. THE INSTALLER SHALL VISIT THE JOB SITE, INSPECT ALL EXISTING CONDITIONS AFFECTING THE WORK. SUBMISSION OF HIS PROPOSAL SHALL BE CONSTRUED AS INDICATING SUCH KNOWLEDGE. NO ADDITIONAL PAYMENT WILL BE MADE ON CLAIMS THAT ARISE FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT.
5. THE PLANS AND DIAGRAMS OF FIRE PROTECTION PIPING ARE SCHEMATIC ONLY AND SHOULD NOT BE SCALED. INSTALLER SHALL COORDINATE AT SITE WITH ALL PLUMBING, HVAC AND ELECTRICAL WORK SO AS NOT TO CONFLICT IN LOCATION WITH OTHER WORK UNDER THIS CONTRACT OR THAT MAY BE EXISTING. CONTRACTOR SHALL ADJUST PIPE ROUTING AS NECESSARY TO AVOID CONFLICTS WITH DUCTWORK, EQUIPMENT, LIGHTING, ETC.
6. INSTALLER SHALL NOT CUT ANY EXISTING STRUCTURAL MEMBERS WITHOUT FIRST SECURING WRITTEN APPROVAL FROM THE ARCHITECT.
7. IN GEOGRAPHICAL LOCATIONS SUBJECT TO TEMPERATURES BELOW 40°F, PROVIDE PROTECTION FOR ALL EXPOSED FIRE PROTECTION PIPING IN ACCORDANCE WITH NFPA 13.
8. FIRE DEPARTMENT CONNECTION SHALL HAVE AN AUTOMATIC BALL DRIP.
9. PROVIDE TAMPER SWITCHES ON ALL VALVES THAT CAN SHUT OFF FLOW IN MAINS OR BRANCHES. CHAINS AND LOCKS IN LIEU OF TAMPER SWITCHES MAY BE USED AT OUTDOOR BACKFLOW PREVENTERS ONLY IF APPROVED BY THE AUTHORITY HAVING JURISDICTION.
10. PIPE SIZED, GENERAL ROUTING, AND CONFIGURATION IN SYSTEMS REQUIRED TO BE HYDRAULICALLY CALCULATED SHALL BE INSTALLED PER THIS ENGINEER'S CONSTRUCTION DOCUMENTS. ANY DEVIATION SUBMITTED BY THE CONTRACTOR SHALL BE RE-DESIGNED BY THIS ENGINEER WITH RELATED RE-DESIGN FEES BORN BY THE CONTRACTOR.
11. CONTRACTOR SHALL ARRANGE FOR, OBTAIN AND BEAR THE COST OF NECESSARY PERMITS, BONDS, AND FEES.
12. ALL MATERIALS SHALL BE U.L. LISTED AND BEAR THE U.L. LABEL.
13. PENETRATIONS THROUGH FIRE RATED ASSEMBLIES, PENETRATIONS FOR PIPES, CONDUITS, OR OTHER PURPOSES THROUGH ASSEMBLIES (FLOORS, WALLS, PARTITIONS, ETC.) WITH A REQUIRED FIRE RESISTANCE RATING FIRE STOP MATERIAL SHALL BE UL LISTED AND INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS TO MEET OR EXCEED THE FIRE RATING OF THE PENETRATED ASSEMBLY.
14. BEFORE SHUTTING OFF ANY SECTION OF THE FIRE PROTECTION SYSTEM TO MAKE ADJUSTMENTS OR ADDITIONAL CONNECTIONS, COORDINATE WITH THE OWNER AND NOTIFY THE AUTHORITY HAVING JURISDICTION. PLAN THE WORK CAREFULLY AND ASSEMBLE ALL MATERIALS TO ENABLE COMPLETION IN THE SHORTEST POSSIBLE TIME. WORK SHALL BE USED TO COMPLETION WITHOUT INTERRUPTION, AND PROTECTION SHALL BE RESTORED AS PROMPTLY AS POSSIBLE.
15. WHERE ELECTRICAL PANELS EXIST, PROVIDE DEFLECTORS ON ELECTRICAL EQUIPMENT TO PREVENT WETTING PANELS. SPRINKLER PIPING SHALL NOT BE INSTALLED DIRECTLY ABOVE ELECTRIC PANELS.
16. PROVIDE FLUSHING CONNECTION AT END OF SPRINKLER SYSTEM WHERE LAY-IN CEILING OCCURS. ALL SPRINKLER PIPING THAT REQUIRES CHANGE IN ELEVATION DUE TO COORDINATION ROUTING OF PIPING SHALL HAVE FLUSH CONNECTION AT ALL LOWER ELEVATION. THE SPRINKLER SYSTEM SHALL BE INSTALLED WITH COMPLETE DRAINABLE SYSTEM.
17. ALL SPRINKLER HEADS SHALL BE U.L. LISTED AND INSTALLED IN ACCORDANCE WITH THEIR LISTING REQUIREMENTS. ALL ESCUTCHEONS AND ACCESSORIES SHALL BE METAL.
18. ALL WORK IS TO BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE. ALL DEFECTS WHICH DEVELOP OR ARE DISCOVERED WITHIN THIS PERIOD SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
19. UPON COMPLETION OF THE WORK UNDER THIS CONTRACT, THE CONTRACTOR SHALL REMOVE ALL TOOLS, APPLIANCES, SURPLUS MATERIALS, AND SCRAP. ALL IDENTIFIED EXISTING EQUIPMENT TO BE REMOVED SHALL BE TURNED OVER TO THE OWNER.
20. WHEN CONFLICTS OCCUR IN SPECIFICATIONS OR IN THE DRAWINGS, OR BETWEEN EITHER, THE ITEMS OF GREATER QUANTITY OR HIGHER COST SHALL BE PROVIDED.
21. THE CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES IN ORDER TO AVOID CONFLICTS.
22. COORDINATE EXACT LOCATION OF SPRINKLERS AND PIPING WITH CEILING, ELECTRICAL, MECHANICAL, AND STRUCTURAL ELEMENTS OF BUILDING. MAKE MODIFICATIONS WITHOUT ADDITIONAL COST TO THE OWNER.
23. PROVIDE ALL HANGERS AS REQUIRED TO COMPLY WITH NFPA 13.
24. TAMPER SWITCHES AND FLOW SWITCHES TO BE PROVIDED AND INSTALLED BY FIRE PROTECTION CONTRACTOR AND CONNECTED BY FIRE ALARM CONTRACTOR. COORDINATE TO VERIFY COMPATIBILITY OF SWITCHES AND LOCATIONS.
25. PROVIDE ALL DRAINS AS REQUIRED BY NFPA 13.
26. EQUIP ALL GATE AND BUTTERFLY VALVES WITH LOCKING DEVICES AND TAMPER SWITCHES IF REQUIRED BY AUTHORITY HAVING JURISDICTION.
27. SEE CIVIL DRAWINGS FOR LOCATION OF FIRE MAINS. SHOWN HERE TO GIVE POINT OF SERVICE AND HYDRAULIC REFERENCE POINTS. FIRE PROTECTION CONTRACTOR TO COORDINATE LOCATION OF MAINS AND STUB-UPS FOR SPRINKLER RISERS WITH ALL OTHER CONTRACTORS AND MAKE ADJUSTMENTS AS NECESSARY TO PROVIDE COMPLETE SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
28. ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE.
29. CONTRACTOR SHALL PERFORM FLOW TEST AT ALL PROJECT SITE HYDRANTS.
30. PROVIDE UPRIGHT SPRINKLER HEADS UNDER ALL EXPOSED DUCTWORK/OBSTRUCTION 48" WIDE OR LARGER, PER NFPA 13 OR AS REQUIRED TO PROVIDE COVERAGE.
31. PENDENT MOUNTED SPRINKLER HEADS SHALL BE ALIGNED WITH NORMAL FABRICATION AND INSTALLATION TOLERANCES AND WILL BE CENTERED IN CEILING TILES.
32. CONTRACTOR SHALL PROVIDE A MINIMUM SAFETY MARGIN OF 10 PSI AT THE MOST REMOTE HYDRAULIC CALCULATED AREA.

DRAWING INDEX

FIRE PROTECTION

FP1.0	ABBREVIATIONS, LEGENDS AND GENERAL NOTES
FP2.0	FIRE PROTECTION SITE UTILITY PLAN
FP3.0	FIRE PROTECTION FLOOR PLAN
FP4.0	FIRE PROTECTION DETAILS
FP5.0	FIRE PROTECTION BUILDING SECTION

FIRE PROTECTION SYSTEM SUMMARY

OWNER:	CITY OF ALACHUA
LOCATION:	LEGACY PARK, ALACHUA FL.
OCCUPANCY:	ASSEMBLY
NUMBER OF FLOORS:	MAIN FLOOR AND PLATFORM
CEILING HEIGHT:	VARIES
APPLICABLE CODES:	NFPA 13,
SYSTEM COVERAGE:	37,685 SQ. FT.

OCCUPANCY:	LIGHT / ORDINARY HAZARDS
DESIGN AREA:	VARIES
DESIGN DENSITY:	0.10 / 0.15
SPRINKLER RESPONSE:	QUICK RESPONSE
FIRE MAIN:	6" SERVICE

WATER FLOW TEST INFORMATION

HYDRANT LOCATION:	MOST EAST HYDRANT OF COLONIAL HEIGHTS
STATIC PRESSURE =	62 PSI
RESIDUAL PRESSURE =	43 PSI
FLOW HYDRANTS: A1 AND A2	
AVAILABLE @ 20 PSI RESIDUAL	1434 GPM
ACTUAL FLOW =	934 GPM
TEST CONDUCTED BY:	M.O. AND D.W.
TEST TAKEN:	FEBRUARY 4 2016

FIRE PROTECTION SPECIFICATIONS

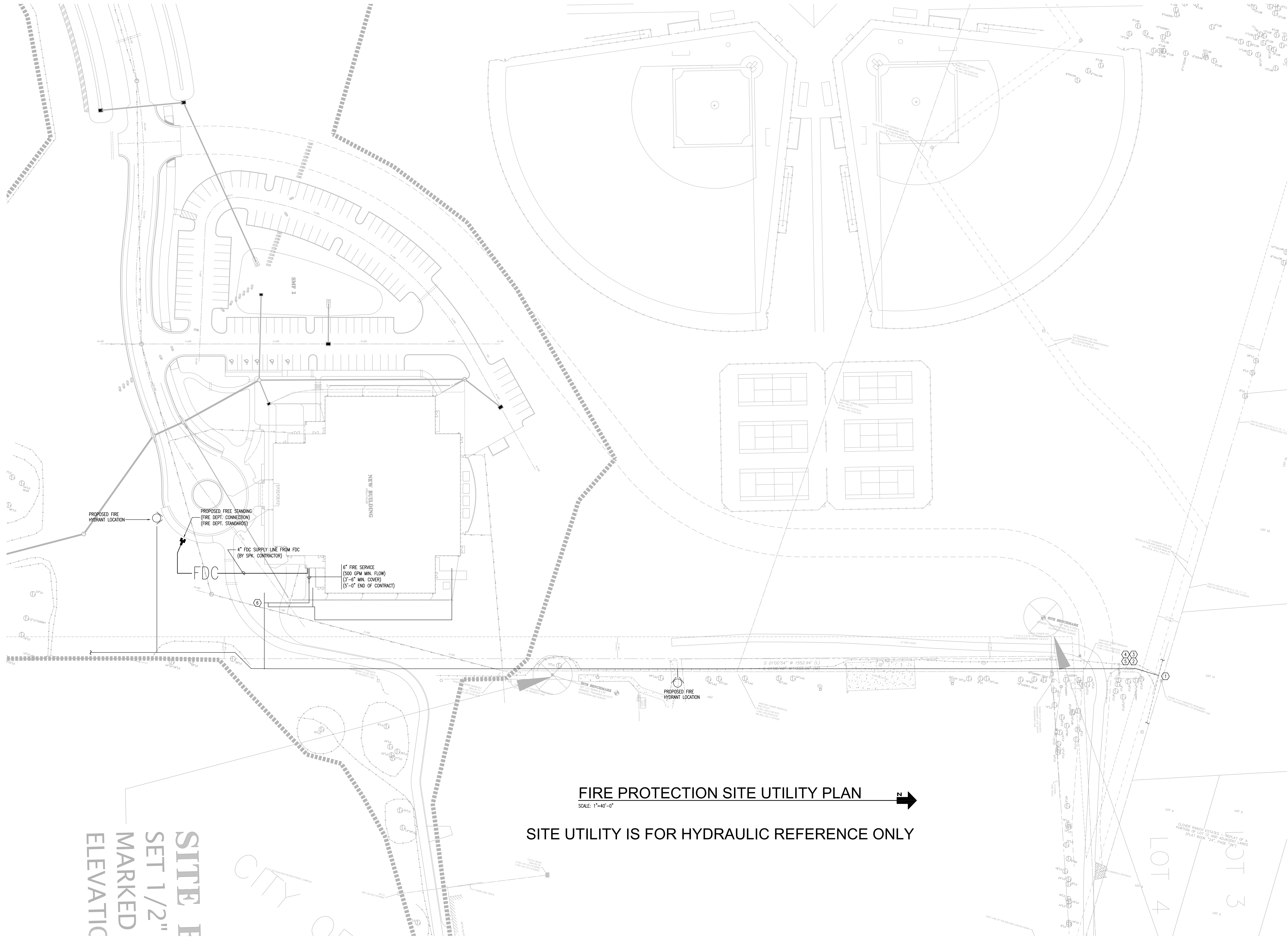
- 1.0 PIPE FITTINGS AND VALVES
 - A. STEEL PIPE ASTM A 135, PIPE SIZE 2" AND SMALLER SHALL BE SCHEDULE 40 BLACK STEEL WITH THREADED CAST IRON BLACK FITTINGS.
 - B. STEEL PIPE SIZE 2-1/2" AND LARGER SHALL BE SCHEDULE 10 BLACK STEEL ROLL GROOVED WITH GROOVED COUPLINGS AND FITTINGS, MECHANICAL TEES AND WELDED OUTLETS.
 - C. DRAIN PIPING SHALL BE SCHEDULE 40 WITH THREADED CAST IRON BLACK FITTINGS, NFPA 13 SPECIFIED WALL THICKNESS FOR 2-1/2" THRU 4" SIZE.
- 1.1 CAST IRON THREADED FLANGES
ASME B16.4, CLASS 125, RAISED GROUND FACE, BOLT HOLES SPOT FACED.
- 1.2 CAST IRON THREADED FITTINGS
ASME B16.4, CLASS 125, STANDARD PATTERN, WITH THREADS ACCORDING TO ASME B1.20.1, 175 PSI RATED.
- 1.3 MALLEABLE IRON THREADED FITTINGS
ASME B16.3, CLASS 150, STANDARD PATTERN, WITH THREADS ACCORDING TO ASME B1.20.1.
- 1.4 STEEL FITTINGS
ASTM A 234/ A 234M, SEAMLESS OR WELDED; ASME B16.9, BUTTWELDING; OR ASME B16.11, SOCKET WELDING TYPE FOR WELDED JOINTS
- 1.5 GROOVED END FITTINGS FOR STEEL PIPE
UL LISTED AND FM APPROVED ASTM A 536, GRADE 65-45-152 DUCTILE IRON OR ASTM A 47 GRADE 32510 MALLEABLE IRON, WITH GROOVES OR SHOULDERS DESIGNED TO ACCEPT GROOVED COUPLINGS.
- 1.6 FLANGED JOINTS FOR DUCTILE IRON PIPE AND DUCTILE IRON OR CAST IRON FITTINGS
AWWA C115 DUCTILE IRON OR GRAY IRON PIPE FLANGES, RUBBER GASKETS, AND HIGH STRENGTH STEEL BOLTS AND NUTS.
- 1.7 COUPLINGS FOR GROOVED END STEEL PIPE AND GROOVED END FERROUS FITTINGS
UL 213, AWWA C606, ASTM A 536 DUCTILE IRON OR ASTM A 47 MALLEABLE IRON HOUSING, WITH ENAMEL FINISH. INCLUDE SYNTHETIC RUBBER GASKET WITH CENTRAL CAVITY, PRESSURE RESPONSIVE DESIGN, ASTM A 183 CARBON STEEL BOLTS AND NUTS TO SECURE GROOVED PIPE AND FITTINGS.
- 1.8 GENERAL
UL LISTED AND/OR FM APPROVED SERVICE VALVES WITH 175 PSIG NON-SHOCK MINIMUM WORKING PRESSURE RATING. GATE VALVES: UL 262, CAST BRONZE, THREADED ENDS, SOLID WEDGE, OUTSIDE SCREW AND YOE, RISING STEM. PROVIDE INDICATING (BUTTERFLY OR BALL) VALVES TYPE, BRONZE BODY WITH THREADED ENDS, AND INTEGRAL INDICATING DEVICE, INDICATOR SHALL BE VISUAL AND ELECTRICAL 115 VOLTS A.C., PRE-WIRED 2 CIRCUIT, SUPERVISORY SWITCH.
- 2.0 SPRINKLERS
PROVIDE AUTOMATIC HEAT-RESPONSIVE GLASS BULB SPRINKLER HEADS, WITH 1/2" NOMINAL ORIFICE, 5.50 "K" FACTOR 155°F TEMPERATURE RATING, INSTALL SPRINKLERS IN A UNIFORM, CONSISTENT MANNER IN ORDER TO LINE UP EACH AREA, IN THE "CENTER" OF THE CEILING TILE AS DETAILED.
- 3.0 SPRINKLER CABINETS
FINISHED STEEL CABINET AND HINGED COVER, WITH 6 SPARE SPRINKLERS PLUS SPRINKLER WRENCH, SUITABLE FOR WALL MOUNTING.
- 4.0 ALARM DEVICES
VERIFY IF REQUIRED. PROVIDE NEW DEVICES IF REQUIRED AS BASED ON PRE-BID FIELD INVESTIGATION. COORDINATE WITH ELECTRICAL (OR FIRE ALARM) CONTRACTOR TO PROVIDE CONNECTIONS TO FIRE ALARM SYSTEM IF REQUIRED.
- 5.0 PIPING INSTALLATIONS
DEVIATIONS FROM APPROVED "WORKING PLANS" FOR SPRINKLER PIPING REQUIRE WRITTEN APPROVAL FROM AUTHORITY WITH JURISDICTION. FILE WRITTEN APPROVAL WITH THE ENGINEER PRIOR TO DEVIATING FROM APPROVED "WORKING PLANS". INSTALL UNION OR FLANGE ADJACENT TO EACH VALVE. INSTALL HANGER AND SUPPORT SPACING AND LOCATIONS FOR STEEL PIPING JOINED WITH GROOVED MECHANICAL COUPLINGS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS FOR RIGID SYSTEMS PER NFPA 13.
- 6.0 FIELD QUALITY CONTROL
FLUSH, TEST AND INSPECT SPRINKLER PIPING SYSTEMS ACCORDING TO NFPA 13 CHAPTER "SYSTEM ACCEPTANCE". REPORT TEST RESULTS PROMPTLY AND IN WRITING TO ARCHITECT AND TO THE AUTHORITY HAVING JURISDICTION. CLEANING: CLEAN DIRT AND DEBRIS FROM SPRINKLERS. REPLACE SPRINKLERS HAVING PAINT OTHER THAN FACTORY FINISH WITH NEW SPRINKLERS. CLEAN AND REUSE OF PAINTED SPRINKLERS IS PROHIBITED.
- 7.0 SPRINKLER SYSTEM BASIS OF DESIGN

ITEM	DESIGN
CLASSIFICATION	COORDINATE WITH ARCHITECTURAL DRAWING AND CLASSIFY AREAS PER NFPA
TYPE	WET PIPE SPRINKLER SYSTEM
SPRINKLER HEAD MANUFACTURER/MODEL	(SEE SCHEDULE)
TEMPERATURE RATING	(SEE SCHEDULE)
STATIC PRESSURE	CONTRACTOR TO OBTAIN INFORMATION
RESIDUAL PRESSURE/FLOW	CONTRACTOR TO OBTAIN INFORMATION
FIRE DEPARTMENT CONNECTION	WALL TYPE POTTER-ROEMER, INC. MODEL 5020-D 4"x2-1/2" (2 WAY) CHROME PLATED LABELED "AUTO. SPKR."

NOTES:

 1. SYSTEM DESIGN SHALL BE HYDRAULICALLY CALCULATED PER NFPA-13.
 2. PROVIDE 200°F TEMPERATURE SPRINKLER HEADS IN THE MECHANICAL/ ELECTRICAL ROOMS.
 3. COORDINATE CEILING MOUNTED SPRINKLER HEADS WITH OTHER DEVICES (LIGHTS, DIFFUSERS, ACCESS PANELS, ETC.) SEE ARCHITECTURAL CEILING PLANS FOR LOCATIONS OF ALL DEVICES.
 4. ALL MATERIALS AND EQUIPMENT SHALL UL AND/OR FACTORY MUTUAL APPROVED WHERE APPLICABLE.

ANY MODIFICATIONS TO THESE PLANS OR RE-USE OF THESE PLANS MUST BE APPROVED BY AND SIGNED BY THE ARCHITECT



FIRE PROTECTION SITE UTILITY PLAN
SCALE: 1"=40'-0"
SITE UTILITY IS FOR HYDRAULIC REFERENCE ONLY

SITE ELEVATIC
SET 1/2"
MARKED

KPI ENGINEERING, INC.
3333 QUINN PALM DRIVE
JACKSONVILLE, FLORIDA 32218
PHONE (904) 241-4444
FAX (904) 241-4444
www.kpi-engineering.com

CITY OF ALACHUA LEGACY PARK MULTI-PURPOSE CENTER & RELATED FACILITIES ALACHUA, FLORIDA		DRAWN BY: PHI/MJC/RJR DATE: JANUARY 2016 PROPOSAL NO.: KPI 15110	
REVISIONS ITEM		PAUL STRESSING ASSOCIATES, INC. 1817 MAIN STREET ALACHUA, FLORIDA 32301 E-MAIL: paul@stressing.com TELEPHONE (386) 482-6407 FAX (386) 482-6408 REGISTRATION NO. A0013985 - C.A.D. A0003571	
DATE: ENGINEER'S SEAL		FL # 40193 SHEET NO. FP2.0	