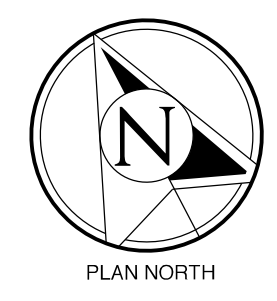


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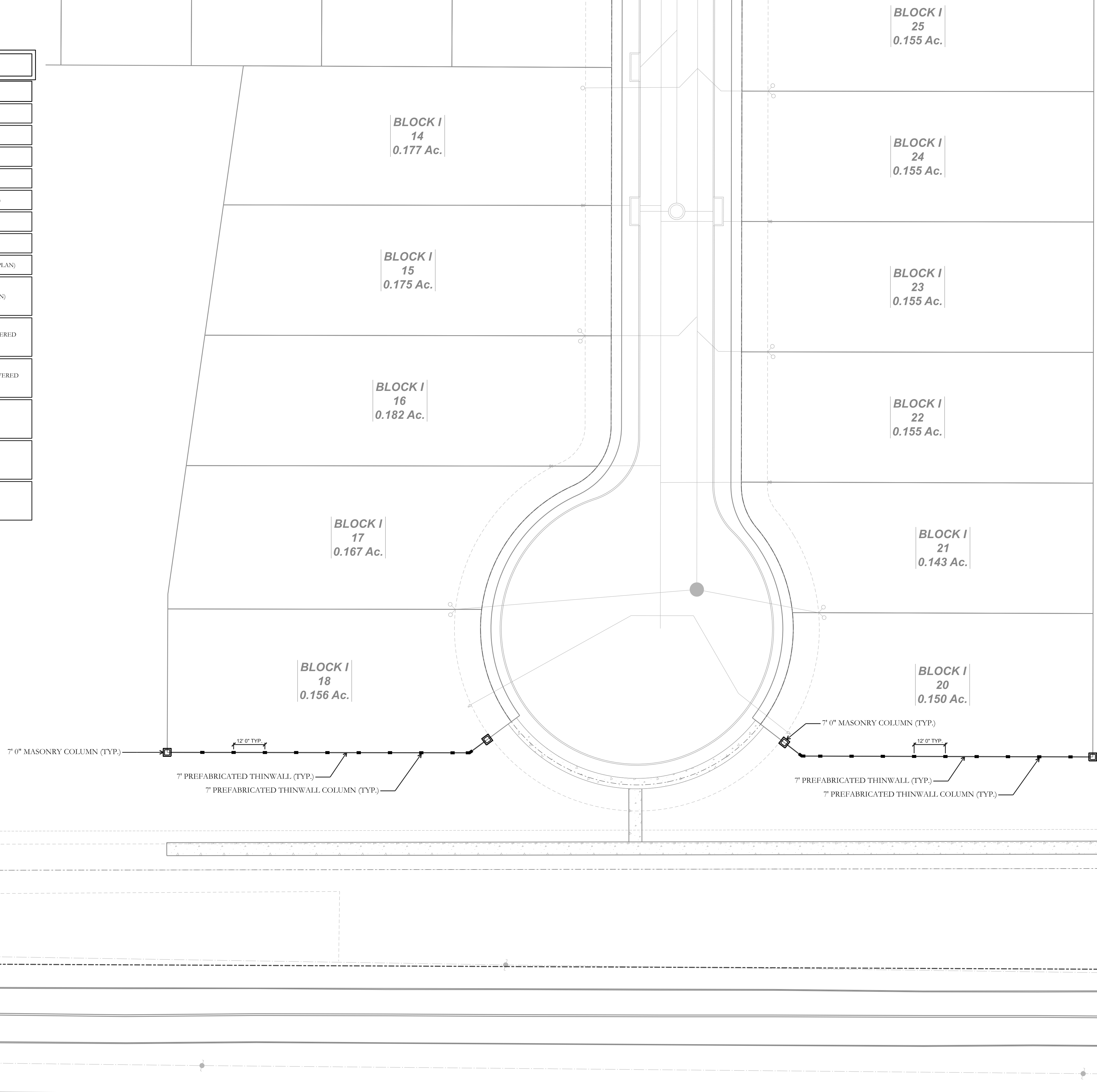


LANDSCAPE DEVELOPMENT
 Overall Site Plan
 Newhaven Residential Development
 Manor, Travis County TX.

MATCHLINE
 REF: SHEET L105, L305, L405
 REF: SHEET L1, L301, L401

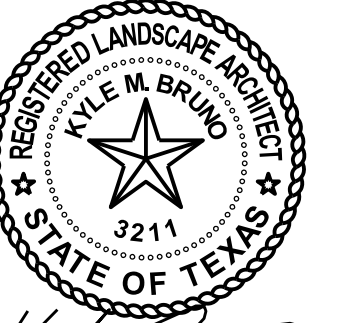
HARDSCAPE LEGEND

SYMBOL / NOTATION	DESCRIPTION
	CONCRETE SIDEWALKS (PER PLAN)
	8" CONCRETE BAND (PER PLAN)
	BARRIER FREE RAMP (PER PLAN)
	PLAYGROUND SURFACING (PER PLAN)
	7" WOOD FENCE (PER PLAN)
	PREFABRICATED THIN WALL (PER PLAN)
	7" MASONRY COLUMN (PER PLAN)
	SECONDARY ENTRANCE MONUMENT (PER PLAN)
	WALL MOUNT MONUMENT LOGO (PER PLAN)
	MAIN ENTRANCE MONUMENT (PER PLAN)
	COVERWORK SIXPOST STEEL CANTILEVERED TRELLIS
	COVERWORK FOURPOST STEEL CANTILEVERED TRELLIS
	NUIN 2959 - BY BURKE PLAYGROUNDS
	2 - 5 STRUCTURE BY BURKE
	DOMES 3 BY BURKE



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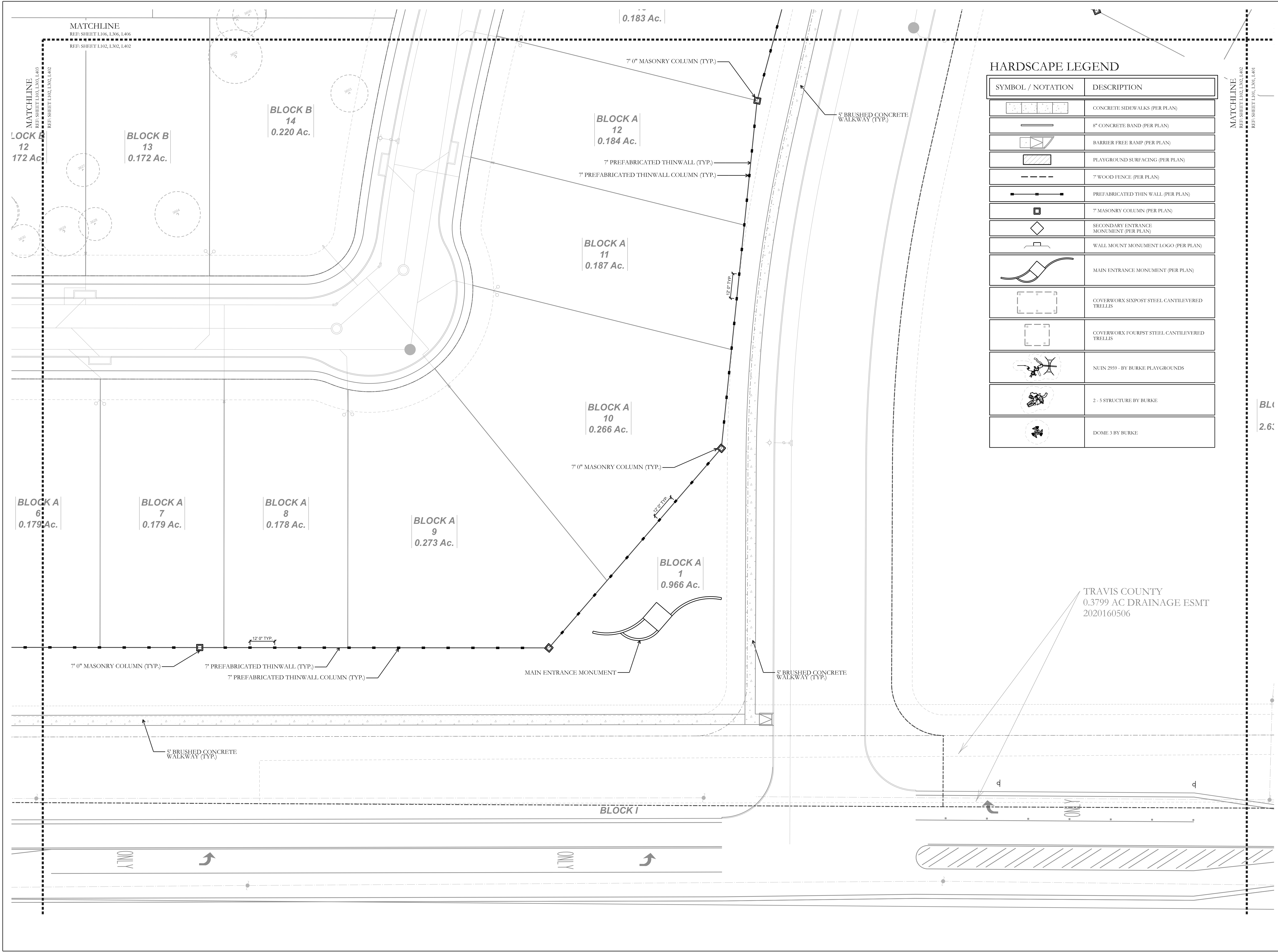


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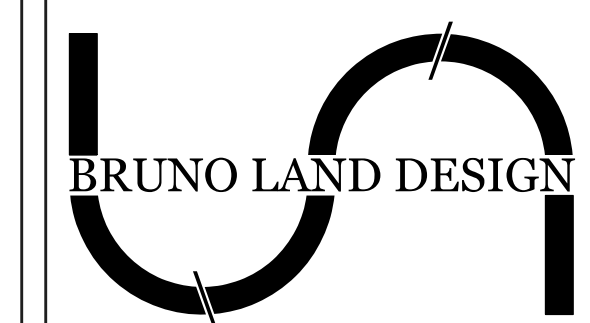
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LANDSCAPE DEVELOPMENT
 Materials & Layout Plan
 Newhaven Residential Development
 Manor, Travis County TX.



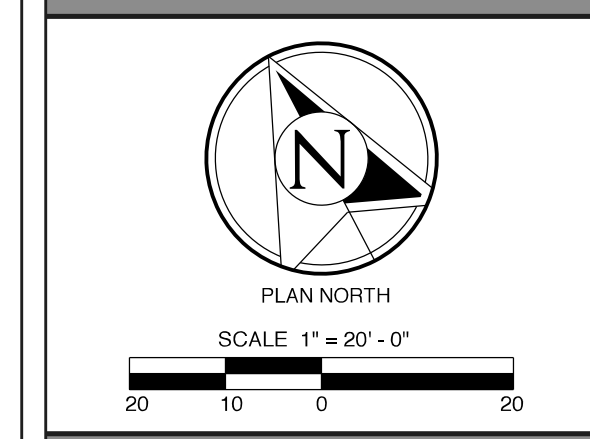
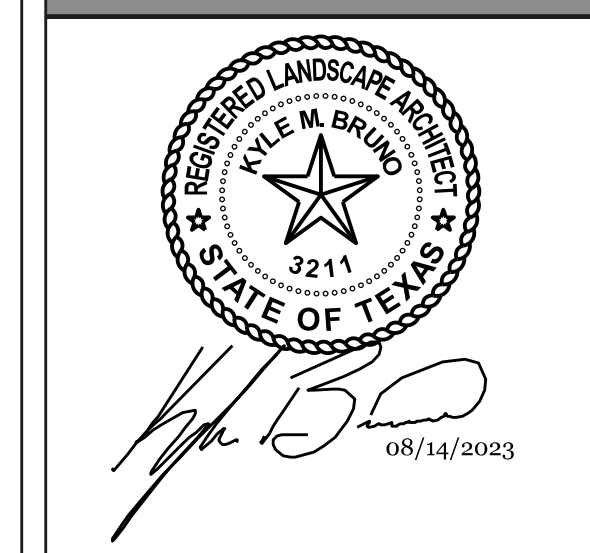
HARDSCAPE LEGEND

SYMBOL / NOTATION	DESCRIPTION
[Pattern]	CONCRETE SIDEWALKS (PER PLAN)
[Pattern]	8" CONCRETE BAND (PER PLAN)
[Pattern]	BARRIER FREE RAMP (PER PLAN)
[Pattern]	PLAYGROUND SURFACING (PER PLAN)
[Pattern]	7" WOOD FENCE (PER PLAN)
[Pattern]	PREFABRICATED THIN WALL (PER PLAN)
[Symbol]	7" MASONRY COLUMN (PER PLAN)
[Symbol]	SECONDARY ENTRANCE MONUMENT (PER PLAN)
[Symbol]	WALL MOUNT MONUMENT LOGO (PER PLAN)
[Symbol]	MAIN ENTRANCE MONUMENT (PER PLAN)
[Symbol]	COVERWORK SIXPOST STEEL CANTILEVERED TRELLIS
[Symbol]	COVERWORK FOURPOST STEEL CANTILEVERED TRELLIS
[Symbol]	NUIN 2959 - BY BURKE PLAYGROUNDS
[Symbol]	2 - 5 STRUCTURE BY BURKE
[Symbol]	DOMES 3 BY BURKE

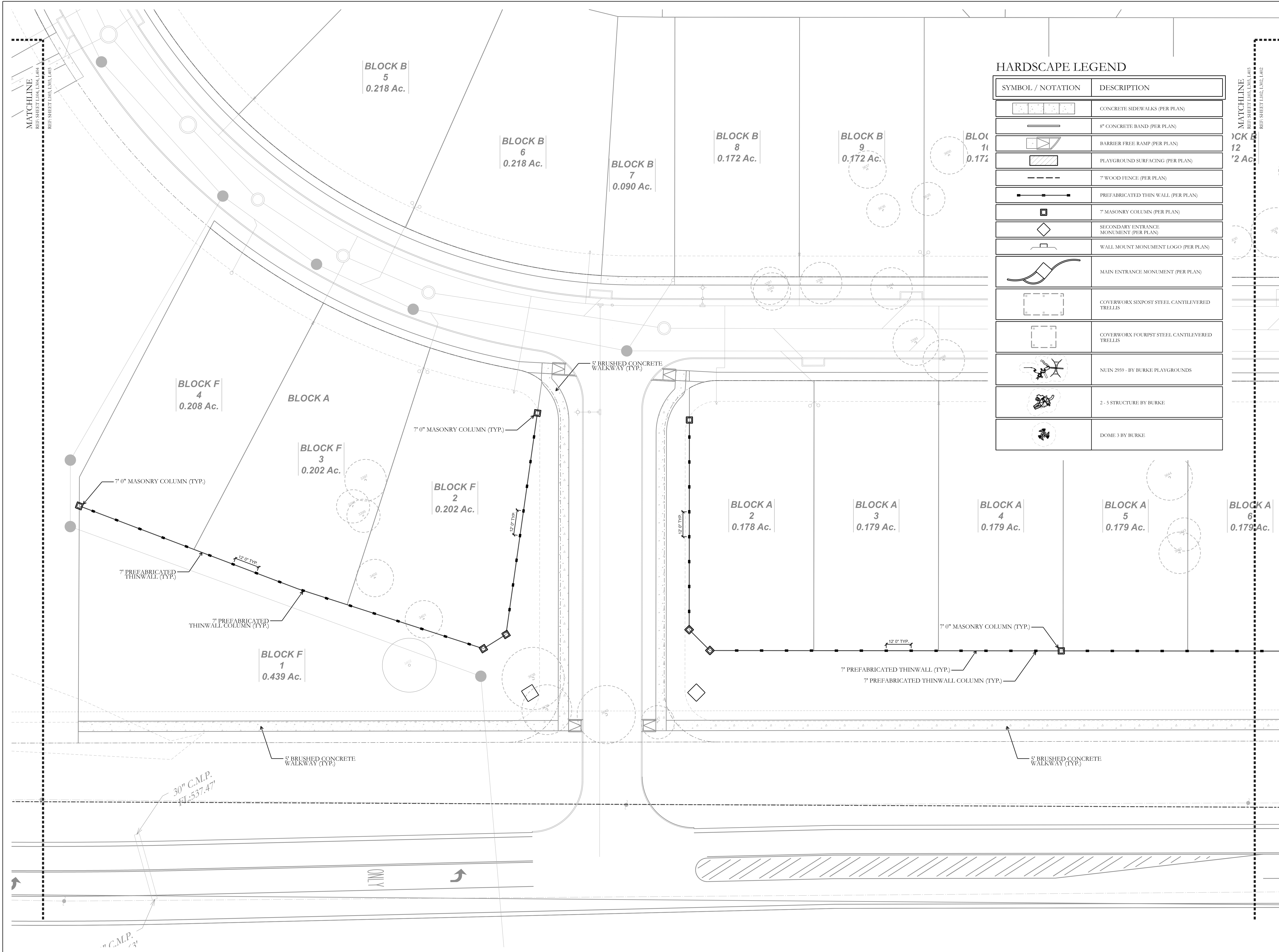


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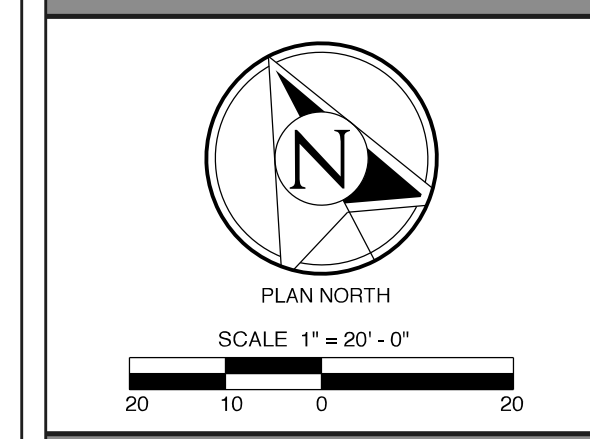
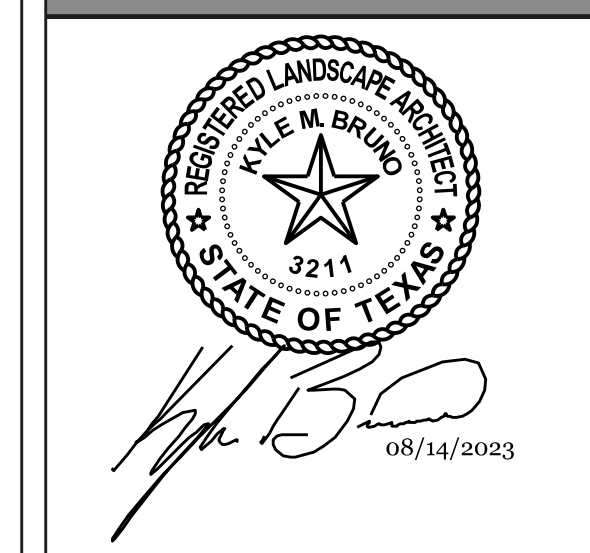


HARDSCAPE LEGEND

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	DOMES 3 BY BURKE

BRUNO LAND DESIGN
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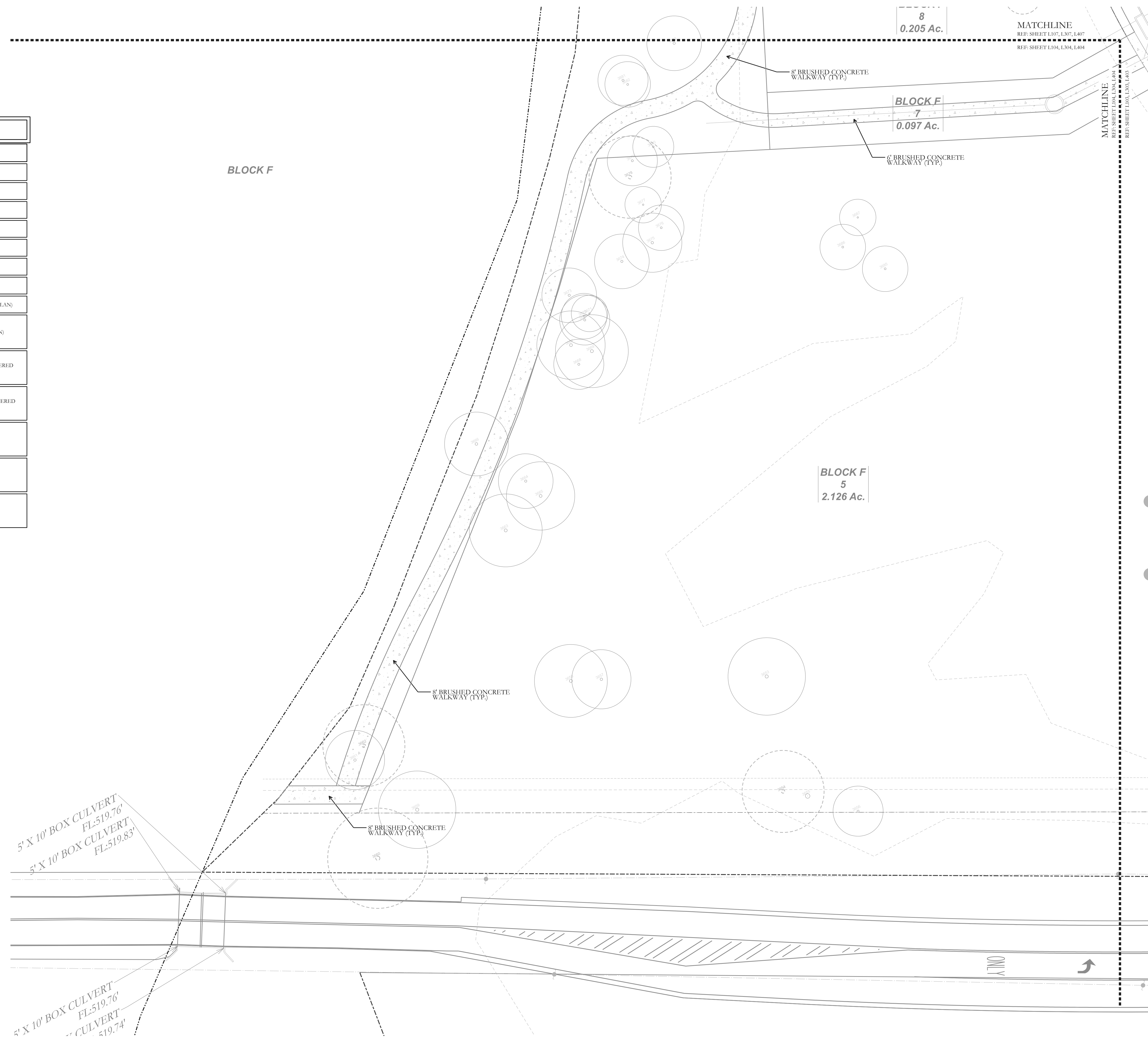
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 Manor, Travis County TX

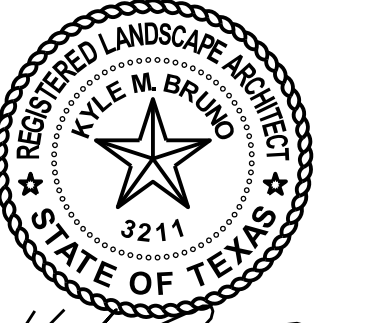
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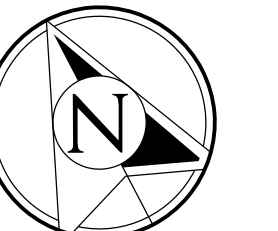


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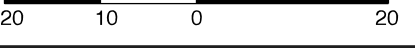


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PLAN NORTH

SCALE 1" = 20'-0"

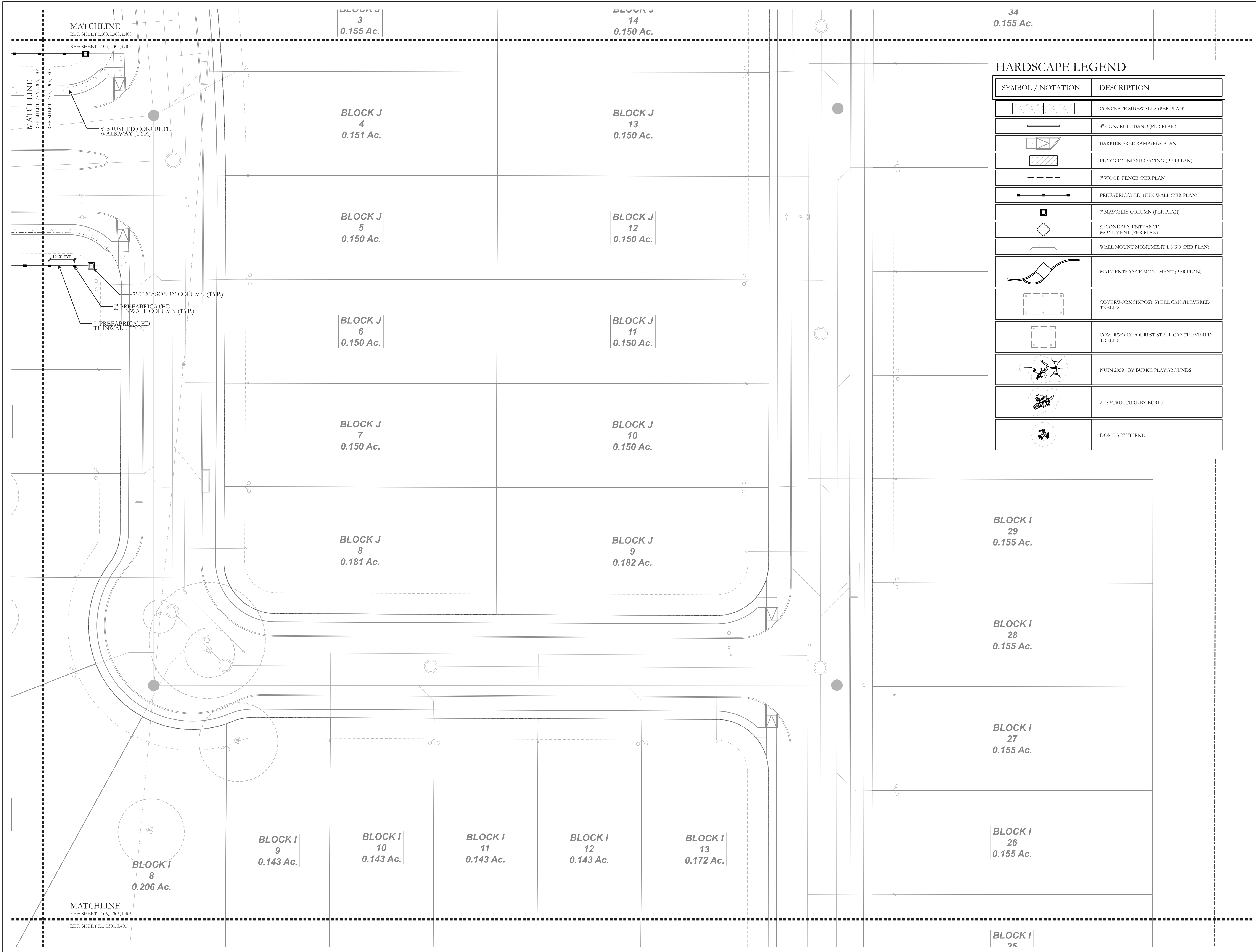


LANDSCAPE DEVELOPMENT

Materials & Layout Plan

Newhaven Residential Development

Manor, Travis County TX.



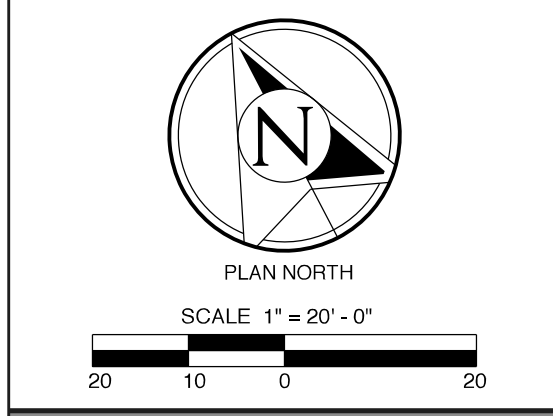
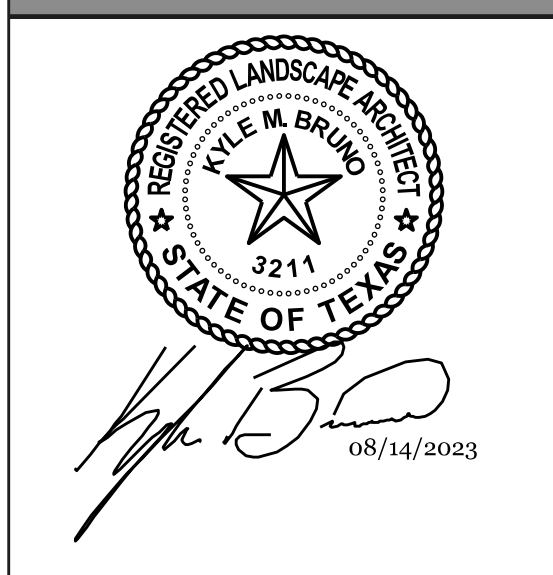
34
0.155 Ac.

HARDSCAPE LEGEND

SYMBOL / NOTATION	DESCRIPTION
	CONCRETE SIDEWALKS (PER PLAN)
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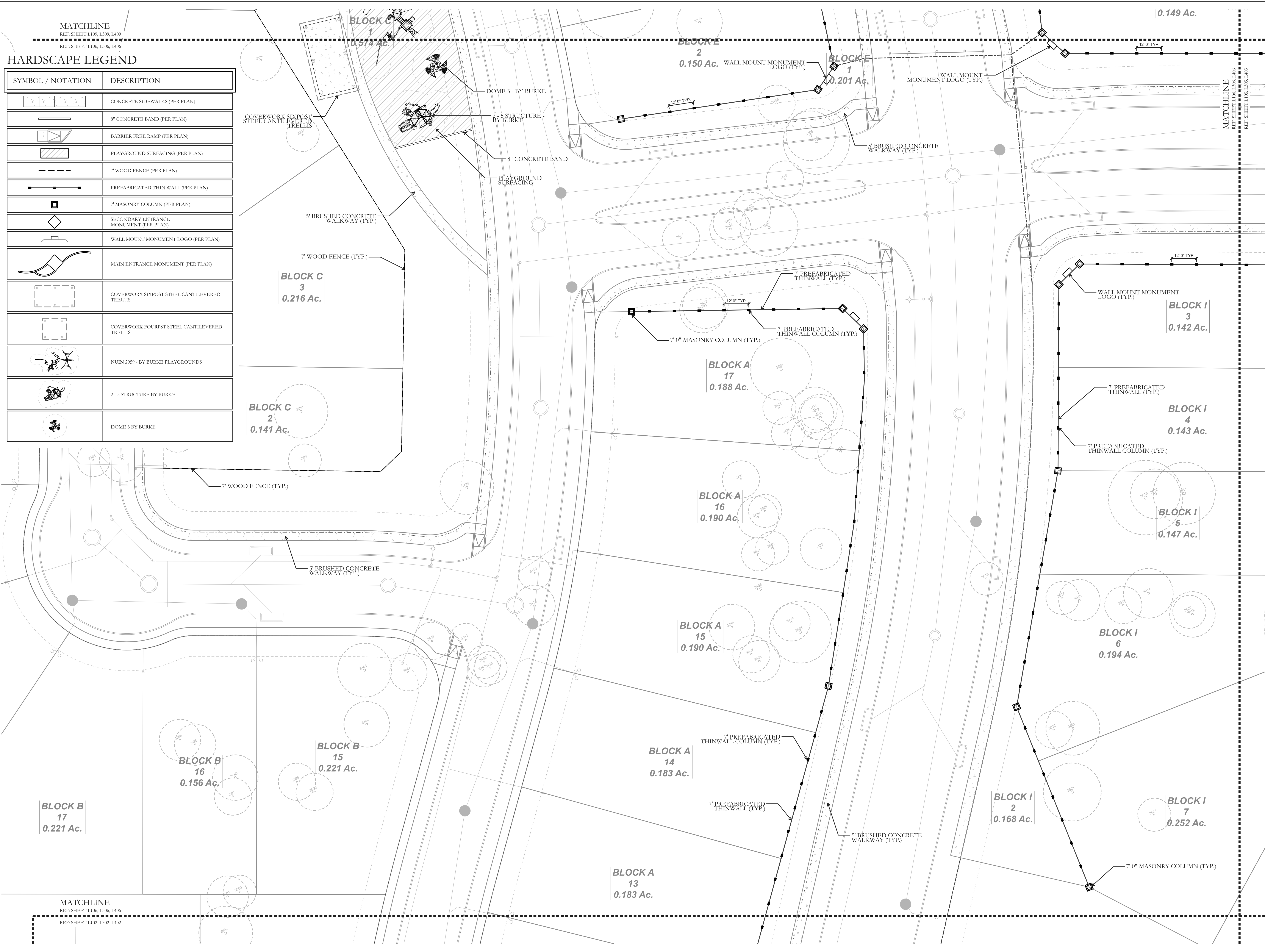


LANDSCAPE DEVELOPMENT
Materials & Layout Plan
Newhaven Residential Development
Manor, Travis County TX

MATCHLINE
 REF: SHEET L109, L109, L409
 REF: SHEET L106, L306, L406

HARDSCAPE LEGEND

SYMBOL / NOTATION	DESCRIPTION
	CONCRETE SIDEWALKS (PER PLAN)
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	2-5 STRUCTURE BY BURKE
	DOMES 3 BY BURKE



MATCHLINE
 REF: SHEET L106, L306, L406
 REF: SHEET L102, L302, L402

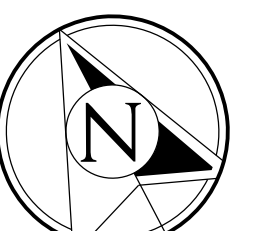


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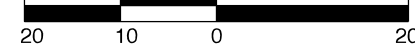
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SCALE 1" = 20'-0"



LANDSCAPE DEVELOPMENT

Materials & Layout Plan

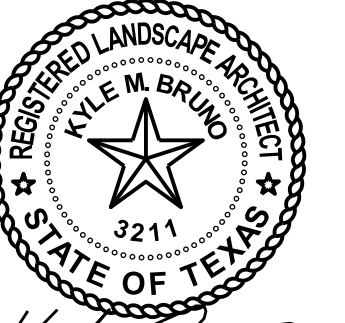
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Manor, Travis County TX.



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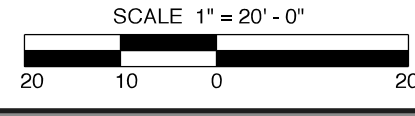
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PLAN NORTH



LANDSCAPE DEVELOPMENT

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Newhaven Residential Development

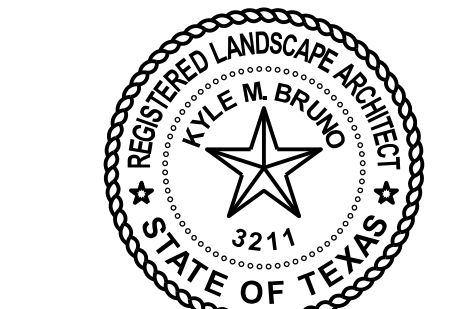
Manor, Travis County TX.



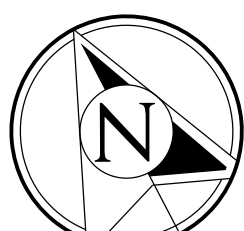
HARDSCAPE LEGEND

SYMBOL / NOTATION	DESCRIPTION
	CONCRETE SIDEWALKS (PER PLAN)
	8" CONCRETE BAND (PER PLAN)
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	COVERWORX FOURPOST STEEL CANTILEVERED TRELLIS
	NUN 2959 - BY BURKE PLAYGROUNDS
	2-5 STRUCTURE BY BURKE
	DOME 3 BY BURKE

NO.	DATE:	REVISION:
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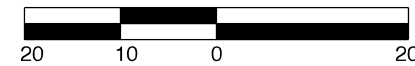


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PLAN NORTH

SCALE 1" = 20'-0"



LANDSCAPE DEVELOPMENT

Materials & Layout Plan

Newhaven Residential Development

Manor, Travis County TX.

HARDSCAPE LEGEND

SYMBOL / NOTATION	DESCRIPTION
	CONCRETE SIDEWALKS (PER PLAN)
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	DOMES 3 BY BURKE

ALEXAN
 20' AC
 200401

5' BRUSHED CONCRETE
 WALKWAY (TYP.)

5' BRUSHED CONCRETE
 WALKWAY (TYP.)

BLOCK
 39
 0.199 A

BLOCK I
 38
 0.155 Ac.

BLOCK I
 37
 0.155 Ac.

BLOCK I
 36
 0.155 Ac.

BLOCK I
 35
 0.155 Ac.

BLOCK I
 34
 0.155 Ac.

BLOCK J
 21
 0.181 Ac.

BLOCK J
 20
 0.138 Ac.

BLOCK J
 19
 0.138 Ac.

BLOCK J
 18
 0.138 Ac.

BLOCK J
 17
 0.176 Ac.

BLOCK J
 1
 0.177 Ac.

BLOCK J
 16
 0.159 Ac.

BLOCK J
 2
 0.161 Ac.

BLOCK J
 15
 0.150 Ac.

BLOCK J
 3
 0.155 Ac.

BLOCK J
 14
 0.150 Ac.

MATCHLINE

REF: SHEET L109, L109, L409
 REF: SHEET L108, L108, L408

MATCHLINE

REF: SHEET L108, L108, L408
 REF: SHEET L105, L105, L405

MATCHLINE
REF: SHEET L111, L311, L411
REF: SHEET L109, L309, L409

HARDSCAPE LEGEND

SYMBOL / NOTATION	DESCRIPTION
	CONCRETE SIDEWALKS (PER PLAN)
	8" CONCRETE BAND (PER PLAN)
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	DOMES 3 BY BURKE

**BLOCK E
11
0.143 Ac.**

**BLOCK E
10
0.143 Ac.**

**BLOCK E
9
0.143 Ac.**

**BLOCK E
8
0.143 Ac.**

**BLOCK E
7
0.143 Ac.**

**BLOCK E
6
0.150 Ac.**

**BLOCK E
5
0.151 Ac.**

**BLOCK E
4
0.151 Ac.**

**BLOCK E
3
0.151 Ac.**

**BLOCK E
2
0.150 Ac.**

**BLOCK I
19
2.172 Ac.**

**BLOCK I
40
0.183 Ac.**

**BLOCK I
41
0.143 Ac.**

**BLOCK I
42
0.144 Ac.**

**BLOCK I
43
0.149 Ac.**

**BLOCK I
44
0.150 Ac.**

**BLOCK I
45
0.149 Ac.**

**BLOCK C
28
0.38 Ac.**

**BLOCK C
29
0.150 Ac.**

**BLOCK C
30
0.157 Ac.**

**BLOCK C
1
0.574 Ac.**

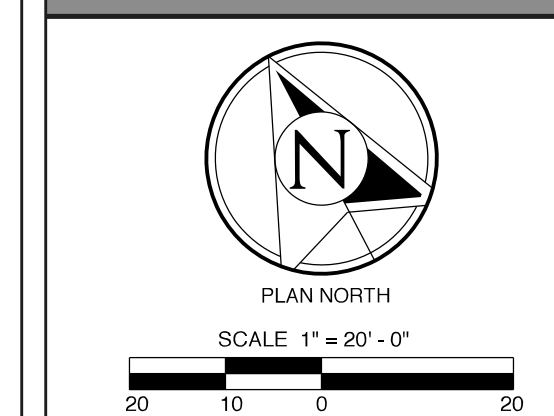
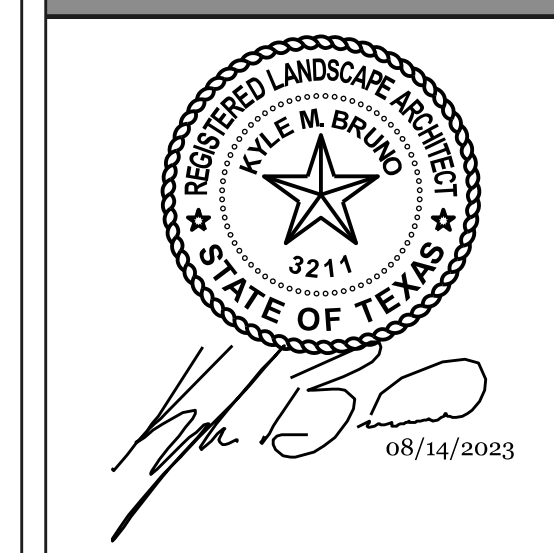
MATCHLINE
REF: SHEET L109, L309, L409
REF: SHEET L106, L306, L406

MATCHLINE
REF: SHEET L109, L309, L409
REF: SHEET L108, L308, L408



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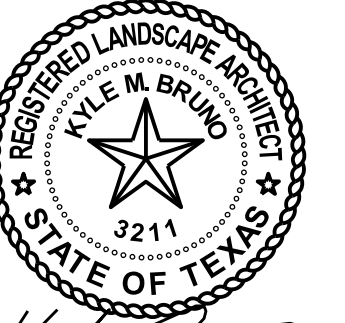


LANDSCAPE DEVELOPMENT
Materials & Layout Plan
Newhaven Residential Development
Manor, Travis County TX



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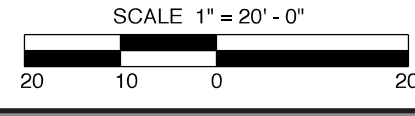
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PLAN NORTH



LANDSCAPE DEVELOPMENT
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 Manor, Travis County TX

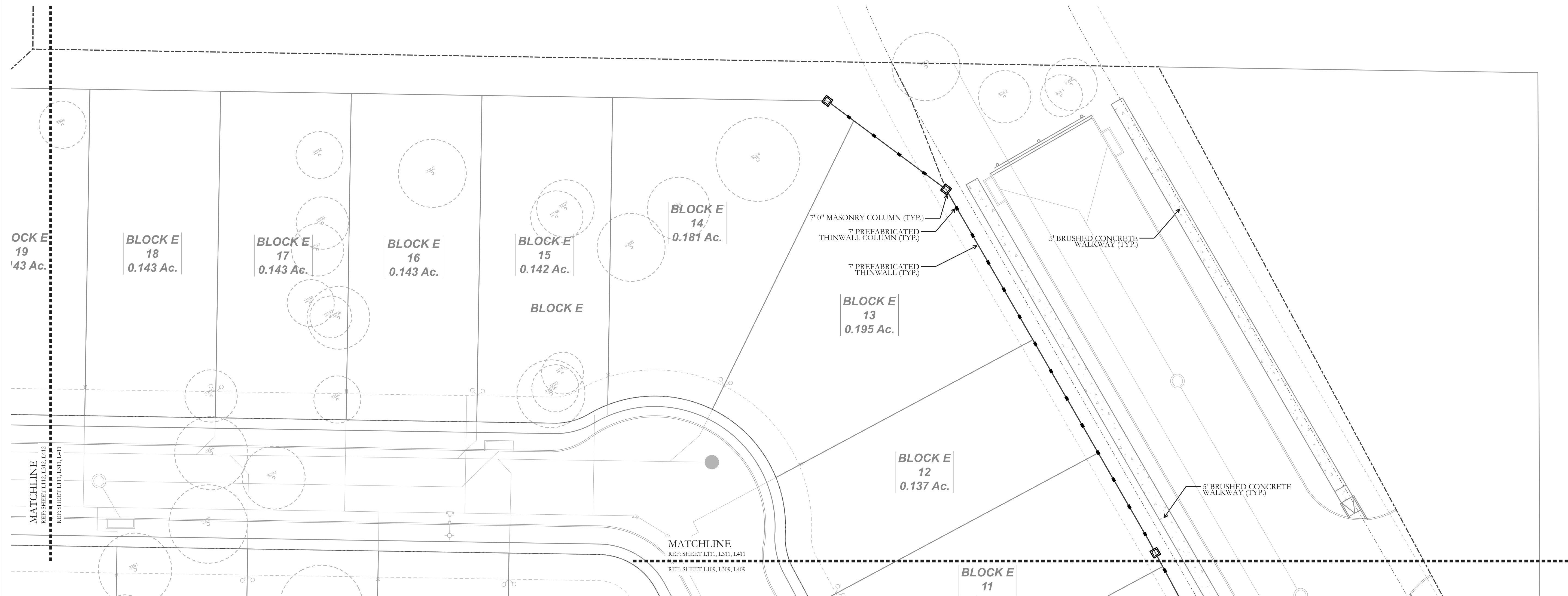


HARDSCAPE LEGEND

SYMBOL / NOTATION	DESCRIPTION
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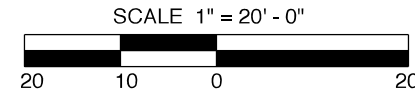
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PLAN NORTH



LANDSCAPE DEVELOPMENT

Materials & Layout Plan

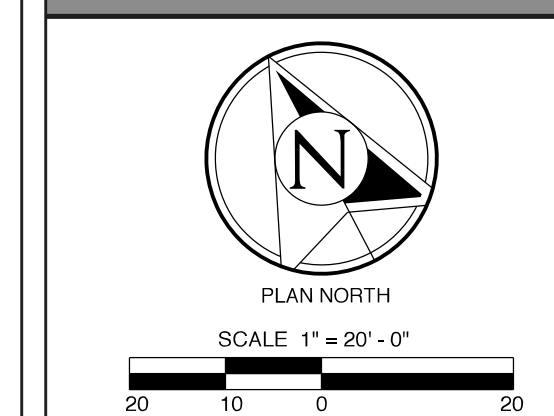
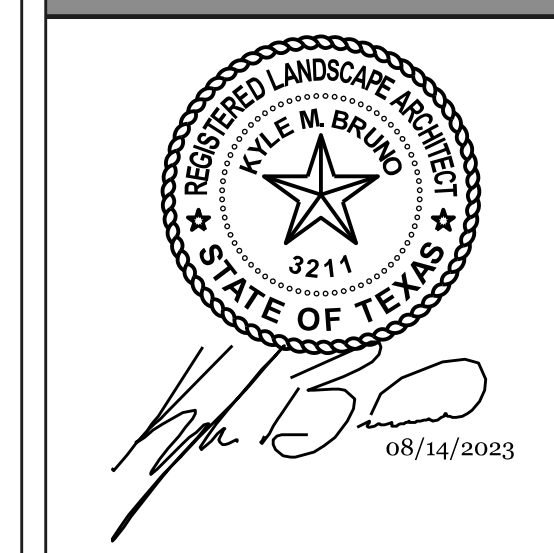
Newhaven Residential Development

Manor, Travis County TX.

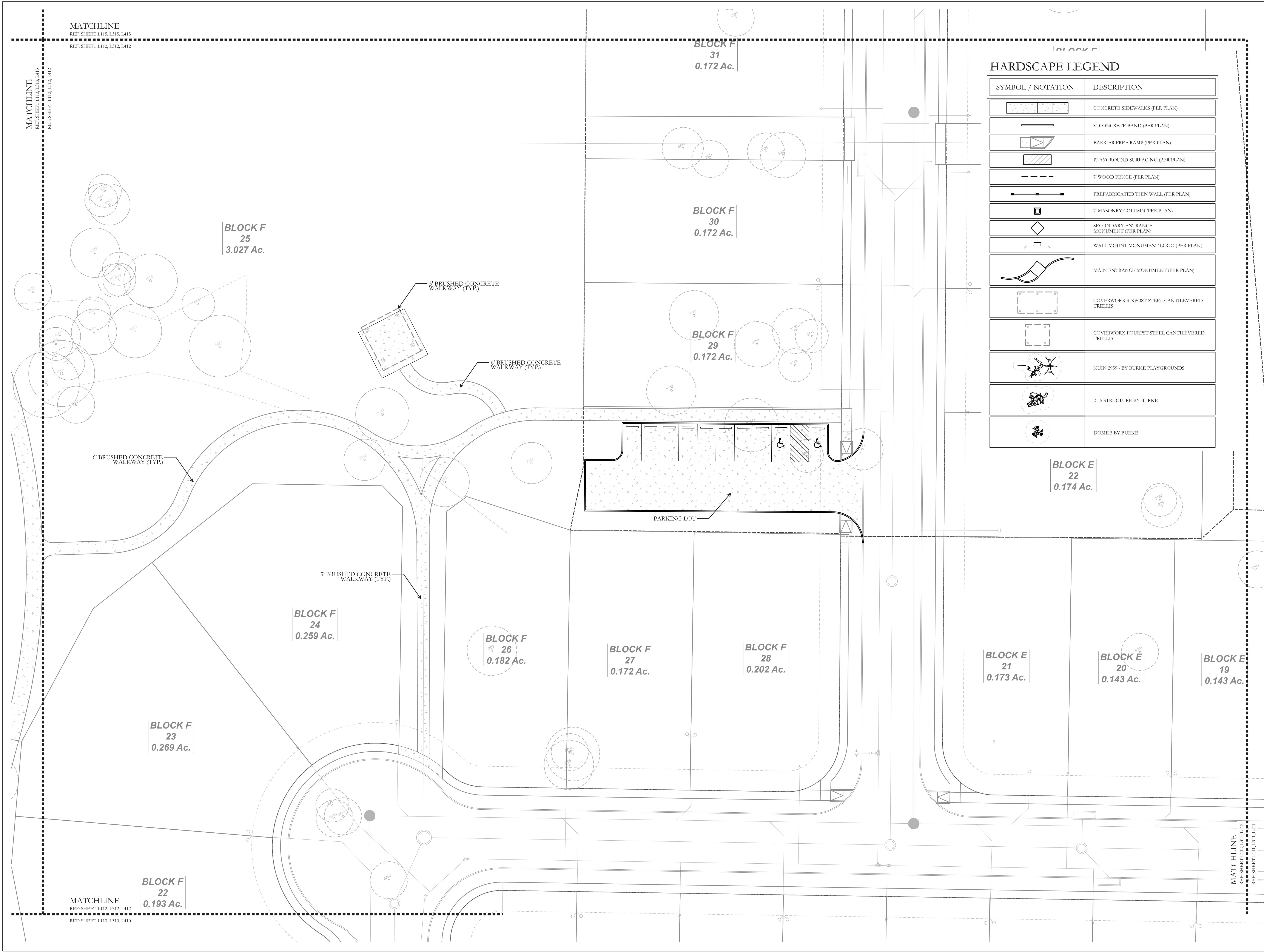


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LANDSCAPE DEVELOPMENT
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Manor, Travis County TX.



HARDSCAPE LEGEND

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MATCHLINE
REF: SHEET L115, L1315, L415
REF: SHEET L112, L1312, L412

MATCHLINE
REF: SHEET L115, L1315, L415
REF: SHEET L112, L1312, L412

BLOCK F
25
3.027 Ac.

BLOCK F
31
0.172 Ac.

BLOCK F
30
0.172 Ac.

BLOCK F
29
0.172 Ac.

BLOCK E
22
0.174 Ac.

BLOCK F
24
0.259 Ac.

BLOCK F
26
0.182 Ac.

BLOCK F
27
0.172 Ac.

BLOCK F
28
0.202 Ac.

BLOCK E
21
0.173 Ac.

BLOCK E
20
0.143 Ac.

BLOCK E
19
0.143 Ac.

BLOCK F
23
0.269 Ac.

BLOCK F
22
0.193 Ac.

MATCHLINE
REF: SHEET L112, L1312, L412
REF: SHEET L110, L1310, L410

MATCHLINE
REF: SHEET L112, L1312, L412
REF: SHEET L111, L1311, L411

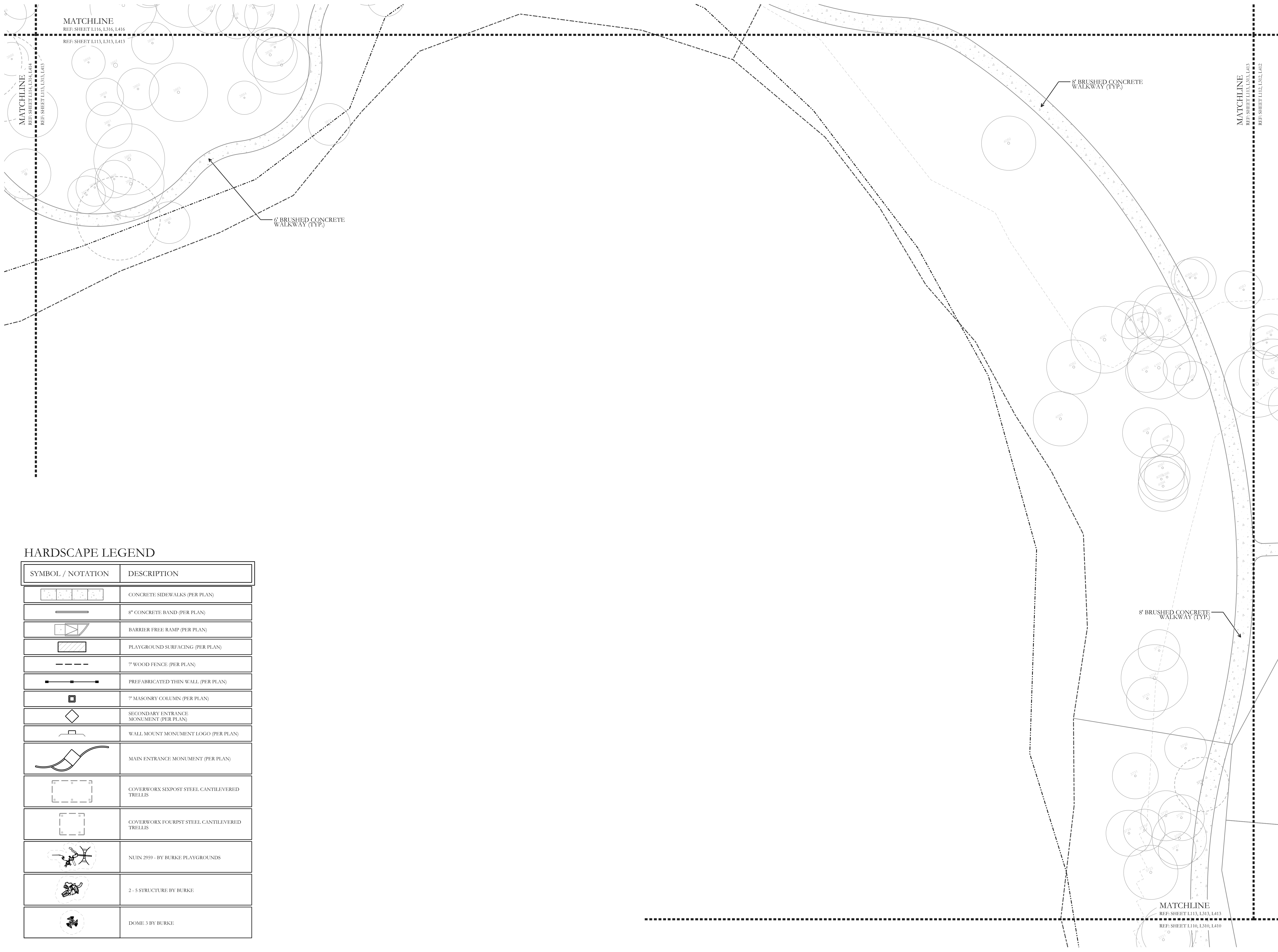
5' BRUSHED CONCRETE WALKWAY (TYP.)

6' BRUSHED CONCRETE WALKWAY (TYP.)

6' BRUSHED CONCRETE WALKWAY (TYP.)

5' BRUSHED CONCRETE WALKWAY (TYP.)

PARKING LOT



MATCHLINE
REF: SHEET L116, L136, L416
REF: SHEET L113, L133, L413

MATCHLINE
REF: SHEET L114, L134, L414
REF: SHEET L115, L135, L415

MATCHLINE
REF: SHEET L112, L132, L412
REF: SHEET L110, L130, L410

6" BRUSHED CONCRETE WALKWAY (TYP.)

8" BRUSHED CONCRETE WALKWAY (TYP.)

8" BRUSHED CONCRETE WALKWAY (TYP.)

MATCHLINE
REF: SHEET L113, L133, L413
REF: SHEET L110, L130, L410

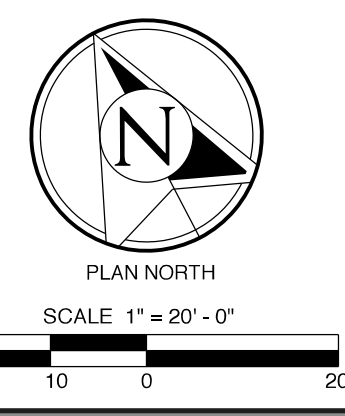
HARDSCAPE LEGEND

SYMBOL / NOTATION	DESCRIPTION
	CONCRETE SIDEWALKS (PER PLAN)
	8" CONCRETE BAND (PER PLAN)
	BARRIER FREE RAMP (PER PLAN)
	PLAYGROUND SURFACING (PER PLAN)
	7" WOOD FENCE (PER PLAN)
	PREFABRICATED THIN WALL (PER PLAN)
	7" MASONRY COLUMN (PER PLAN)
	SECONDARY ENTRANCE MONUMENT (PER PLAN)
	WALL MOUNT MONUMENT LOGO (PER PLAN)
	MAIN ENTRANCE MONUMENT (PER PLAN)
	COVERWORX SIXPOST STEEL CANTILEVERED TRELLIS
	COVERWORX FOURPOST STEEL CANTILEVERED TRELLIS
	NUIN 2959 - BY BURKE PLAYGROUNDS
	2 - 5 STRUCTURE BY BURKE
	DOME 3 BY BURKE



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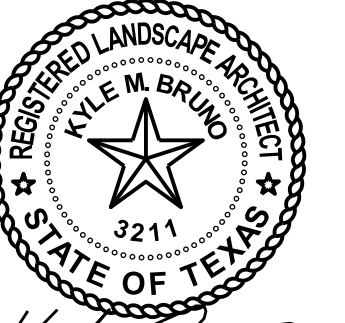


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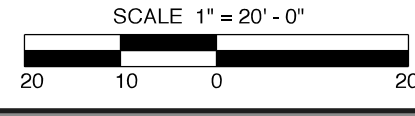
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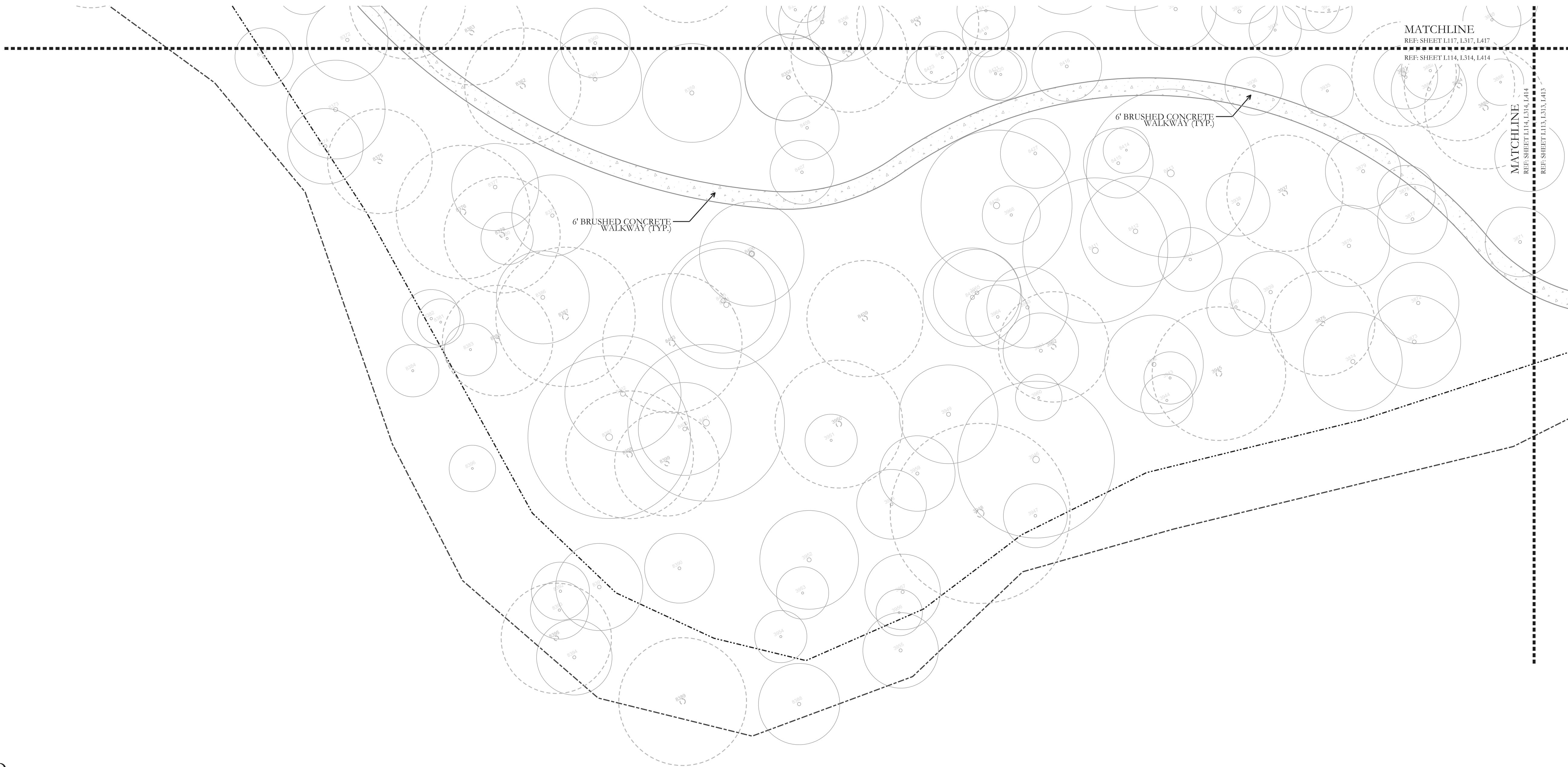
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PLAN NORTH



LANDSCAPE DEVELOPMENT
 Materials & Layout Plan
Newhaven Residential Development
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HARDSCAPE LEGEND

SYMBOL / NOTATION	DESCRIPTION
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	8" CONCRETE BAND (PER PLAN)
	BARRIER FREE RAMP (PER PLAN)
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	COVERWORX FOURPOST STEEL CANTILEVERED TRELLIS
	NUN 2959 - BY BURKE PLAYGROUNDS
	2 - 5 STRUCTURE BY BURKE
	DOMES 3 BY BURKE

MATCHLINE
 REF: SHEET L117, L137, L147
 REF: SHEET L114, L134, L144

MATCHLINE
 REF: SHEET L114, L134, L144
 REF: SHEET L113, L133, L143

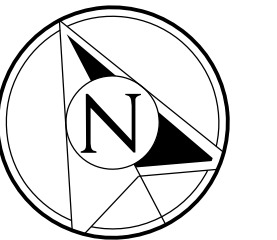


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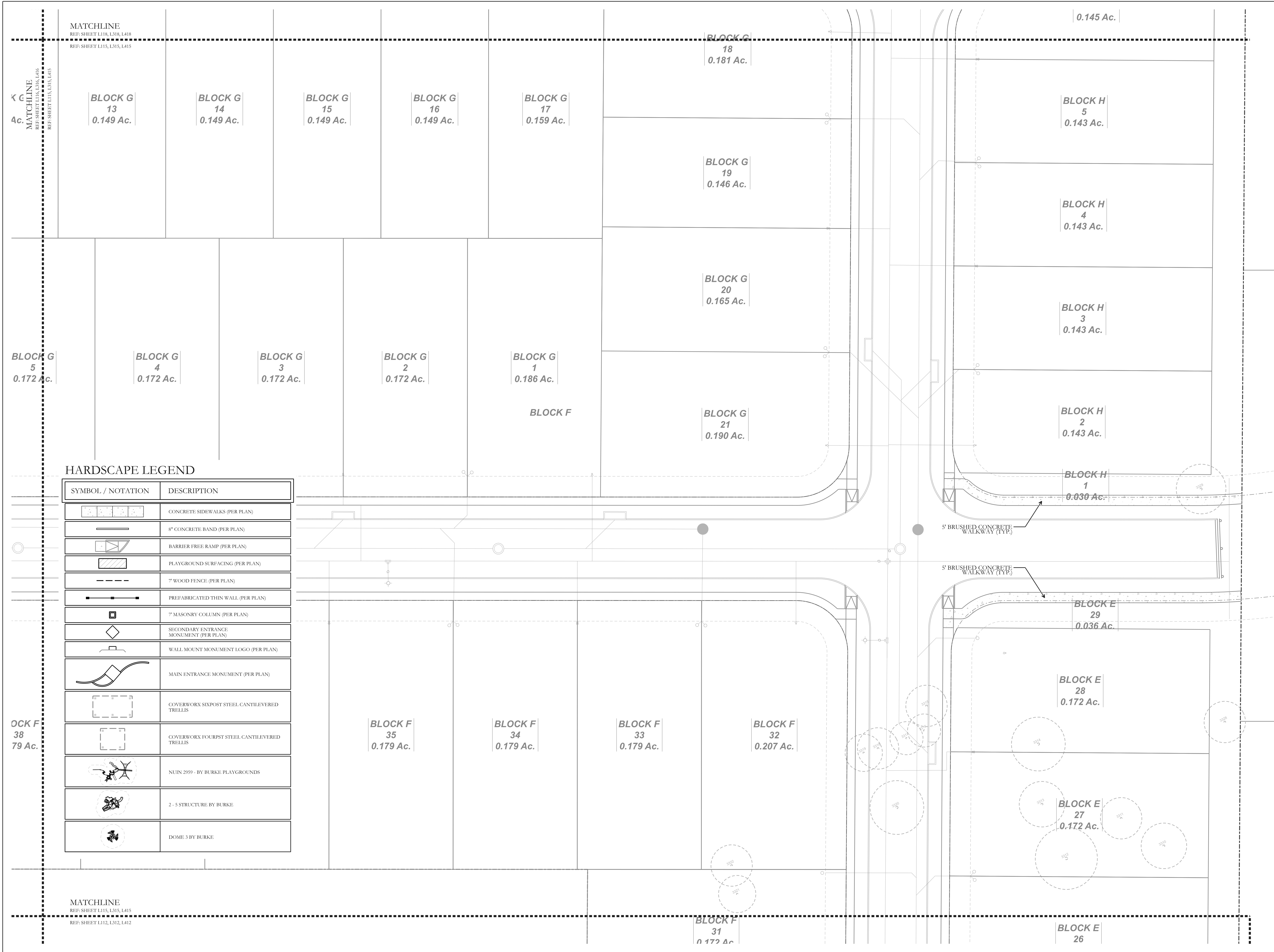
SCALE 1" = 20'-0"

LANDSCAPE DEVELOPMENT

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Newhaven Residential Development

Manor, Travis County TX.



MATCHLINE
REF: SHEET L118, L138, L418
REF: SHEET L115, L135, L415

MATCHLINE
REF: SHEET L116, L136, L416
REF: SHEET L113, L133, L413

HARDSCAPE LEGEND

SYMBOL / NOTATION	DESCRIPTION
	CONCRETE SIDEWALKS (PER PLAN)
	8" CONCRETE BAND (PER PLAN)
	BARRIER FREE RAMP (PER PLAN)
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	COVERWORK FOURPOST STEEL CANTILEVERED TRELLIS
	NUN 2959 - BY BURKE PLAYGROUNDS
	2- 5 STRUCTURE BY BURKE
	DOMES 3 BY BURKE

MATCHLINE
REF: SHEET L112, L132, L412

MATCHLINE
REF: SHEET L117, L137, L417

BLOCK G 13 0.149 Ac. BLOCK G 14 0.149 Ac. BLOCK G 15 0.149 Ac. BLOCK G 16 0.149 Ac. BLOCK G 17 0.159 Ac.

BLOCK G 18 0.181 Ac.

BLOCK H 5 0.143 Ac.

BLOCK H 4 0.143 Ac.

BLOCK H 3 0.143 Ac.

BLOCK H 2 0.143 Ac.

BLOCK H 1 0.030 Ac.

BLOCK G 19 0.146 Ac.

BLOCK G 20 0.165 Ac.

BLOCK G 21 0.190 Ac.

BLOCK G 5 0.172 Ac.

BLOCK G 4 0.172 Ac.

BLOCK G 3 0.172 Ac.

BLOCK G 2 0.172 Ac.

BLOCK G 1 0.186 Ac.

BLOCK F

BLOCK F 35 0.179 Ac.

BLOCK F 34 0.179 Ac.

BLOCK F 33 0.179 Ac.

BLOCK F 32 0.207 Ac.

BLOCK F 31 0.172 Ac.

BLOCK E 29 0.036 Ac.

BLOCK E 28 0.172 Ac.

BLOCK E 27 0.172 Ac.

BLOCK E 26



MATCHLINE
REF: SHEET L119, L139, L419
REF: SHEET L116, L136, L416

MATCHLINE
REF: SHEET L117, L137, L417
REF: SHEET L116, L136, L416

MATCHLINE
REF: SHEET L116, L136, L416
REF: SHEET L113, L133, L413

BLOCK G
10
0.176 Ac.

BLOCK F
48
0.224 Ac.

BLOCK G
9
0.152 Ac.

BLOCK F
47
0.153 Ac.

BLOCK G
8
0.165 Ac.

BLOCK F
46
0.153 Ac.

BLOCK G
7
0.190 Ac.

BLOCK F
45
0.149 Ac.

BLOCK F
44
0.148 Ac.

BLOCK F
43
0.186 Ac.

BLOCK F
41
0.188 Ac.

BLOCK F
40
0.179 Ac.

BLOCK F
39
0.179 Ac.

BLOCK F
38
0.179 Ac.

HARDSCAPE LEGEND

SYMBOL / NOTATION	DESCRIPTION
	CONCRETE SIDEWALKS (PER PLAN)
	8" CONCRETE BAND (PER PLAN)
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	PLAYGROUND SURFACING (PER PLAN)
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	DOMES 3 BY BURKE

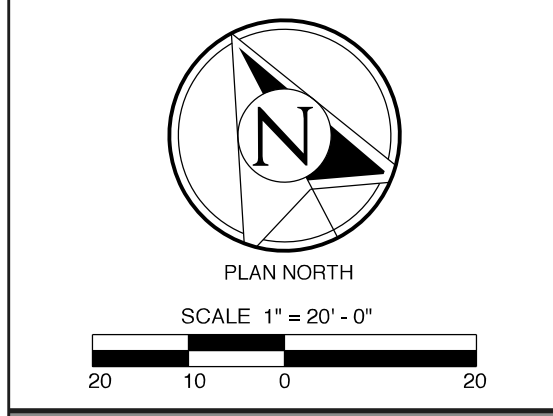
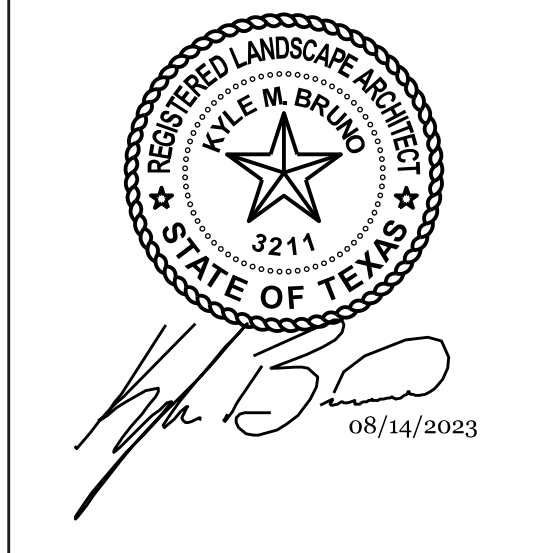
MATCHLINE
REF: SHEET L116, L136, L416
REF: SHEET L113, L133, L413

BLOCK G
5
0.172 Ac.



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MATCHLINE
 REF: SHEET L120, L320, L420
 REF: SHEET L117, L317, L417

MATCHLINE
 REF: SHEET L117, L317, L417
 REF: SHEET L116, L316, L416

HARDSCAPE LEGEND

SYMBOL / NOTATION	DESCRIPTION
	CONCRETE SIDEWALKS (PER PLAN)
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	COVERWORK FOURPOST STEEL CANTILEVERED TRELLIS
	NUIN 2959 - BY BURKE PLAYGROUNDS
	2 - 5 STRUCTURE BY BURKE
	DOMES 3 BY BURKE

BL
 12.

6" BRUSHED CONCRETE WALKWAY (TYP.)

6" BRUSHED CONCRETE WALKWAY (TYP.)



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PLAN NORTH

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Newhaven Residential Development

Manor, Travis County TX.

MATCHLINE
 REF: SHEET L117, L317, L417
 REF: SHEET L114, L314, L414

HARDSCAPE LEGEND

SYMBOL / NOTATION	DESCRIPTION
	CONCRETE SIDEWALKS (PER PLAN)
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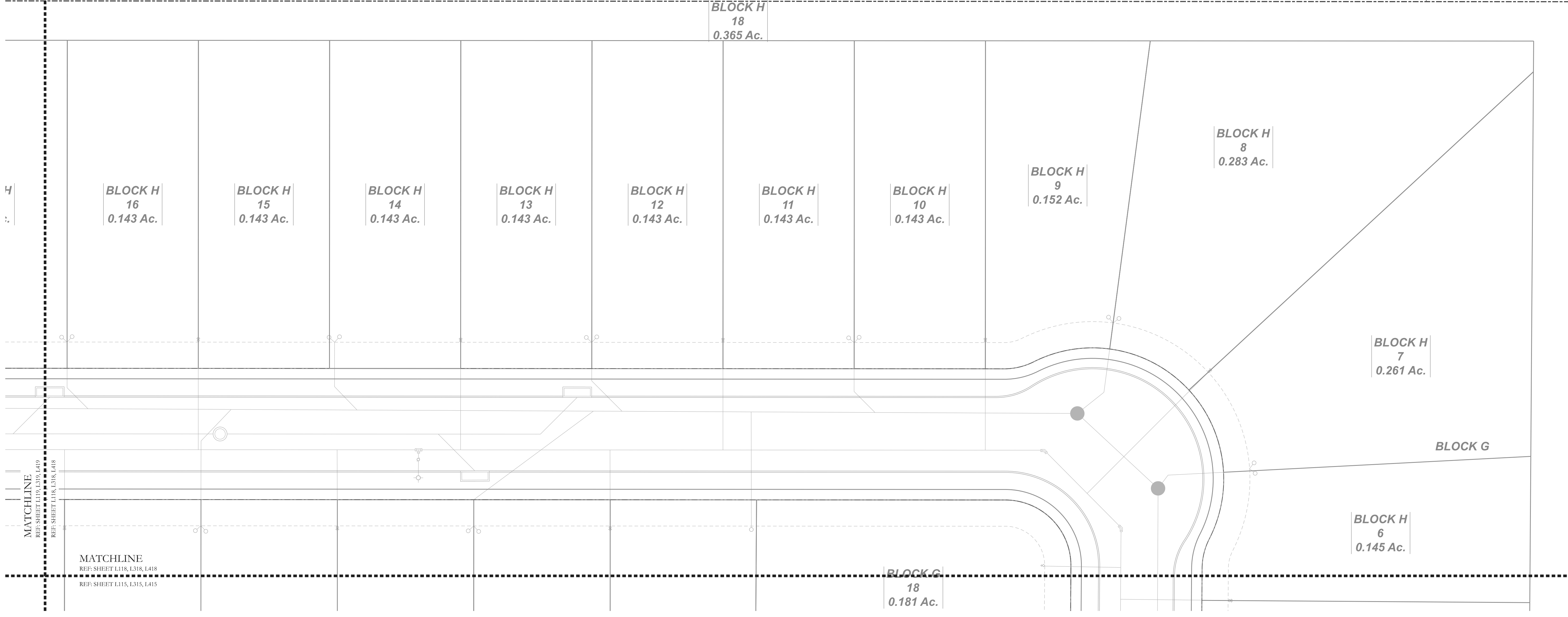
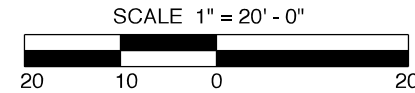
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PLAN NORTH



LANDSCAPE DEVELOPMENT
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HARDSCAPE LEGEND

SYMBOL / NOTATION	DESCRIPTION
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	DOMES 3 BY BURKE

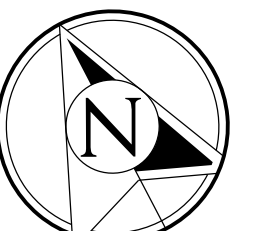


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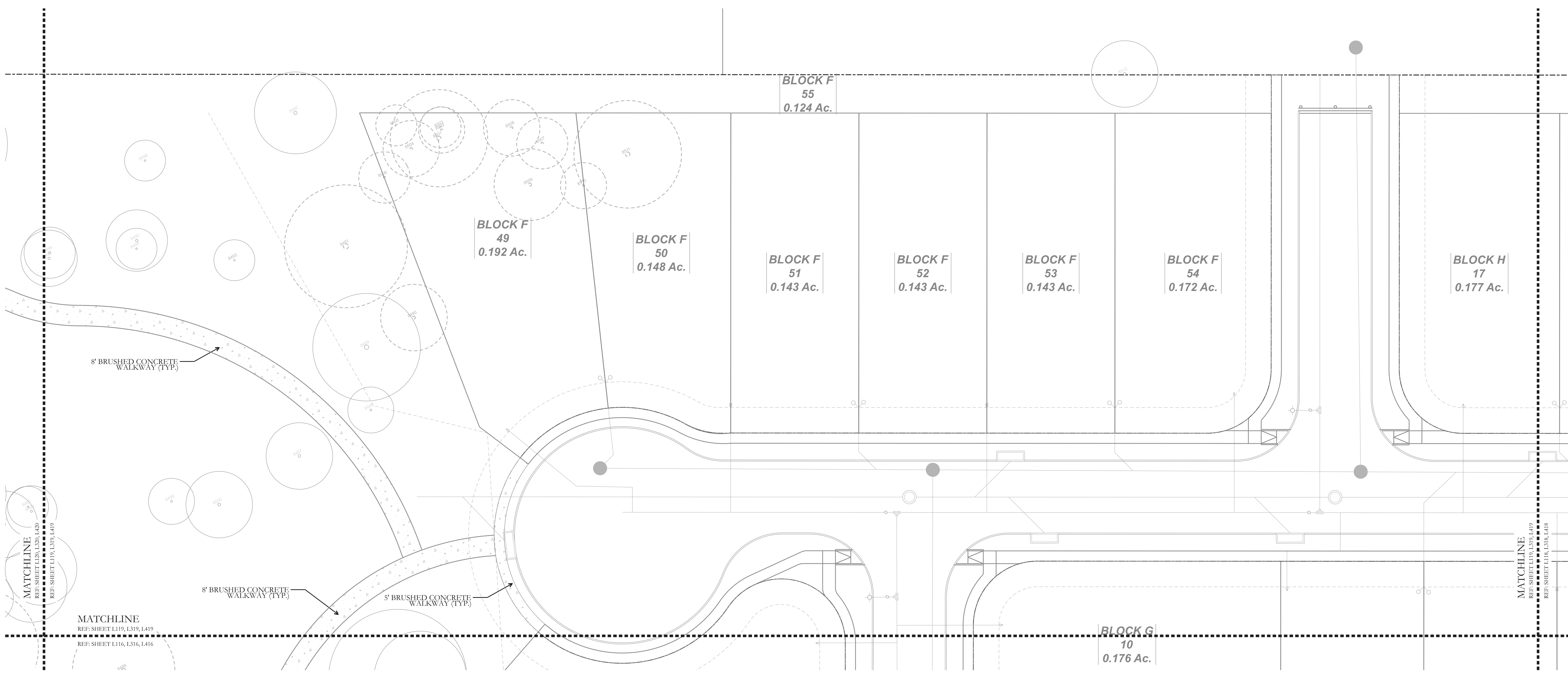


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PLAN NORTH

SCALE 1" = 20'-0"



LANDSCAPE DEVELOPMENT

Materials & Layout Plan

Newhaven Residential Development

Manor, Travis County TX.

HARDSCAPE LEGEND

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	CONCRETE SIDEWALKS (PER PLAN)
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	NUIN 2959 - BY BURKE PLAYGROUNDS
	2 - 5 STRUCTURE BY BURKE
	DOMES BY BURKE



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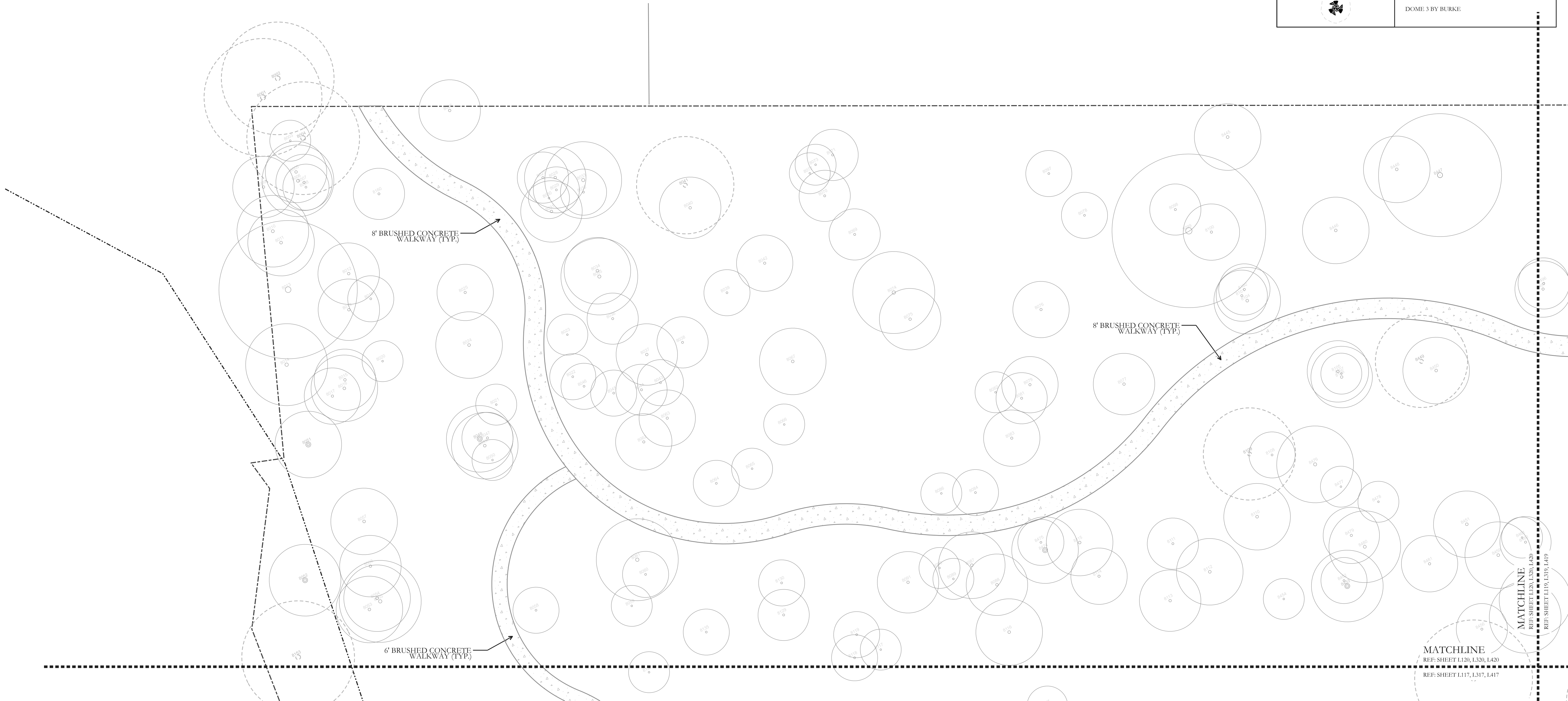
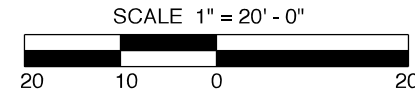
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PLAN NORTH



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SHADE STRUCTURE



COVERWORX SIXPOST STEEL CANTILEVERED TRELLIS



COVERWORX FOURPST STEEL CANTILEVERED TRELLIS

PLAYGROUND SURFACING

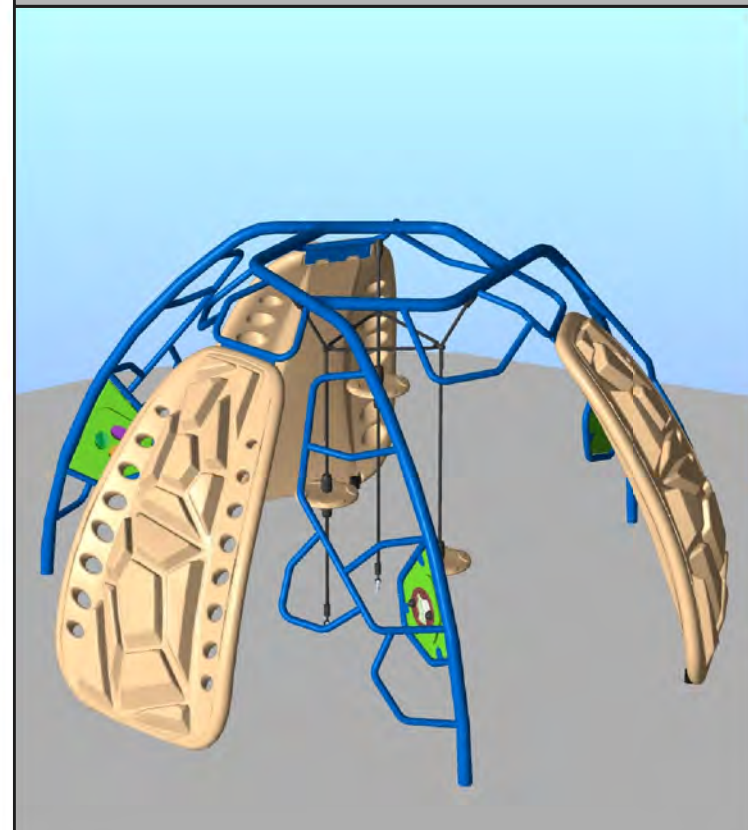


RUBBER SURFACING

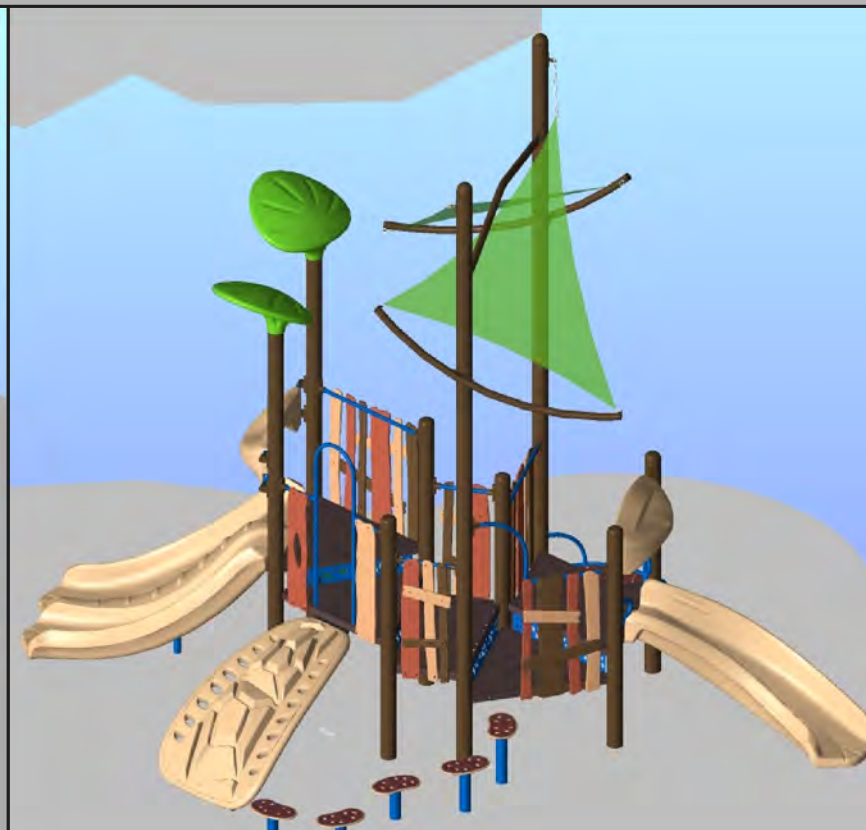


BURKE - ARTIFICIAL TURF

2-5 YEAR OLD PLAYGROUND EQUIPMENT



DOMES 3 - BY BURKE



2 - 5 STRUCTURE - BY BURKE

5-12 YEAR OLD PLAYGROUND EQUIPMENT



NUIN 2959 - BY BURKE PLAYGROUNDS

SITE FURNISHING



PICNIC TABLE AND BENCH - BY MAGLIN



PARK BENCH - BY MAGLIN



TRASH RECEPTICAL - BY MAGLIN



PING PONG TABLE - BY ANDERSON CONCRETE



DRINKING FOUNTAIN - BY MURDOCK

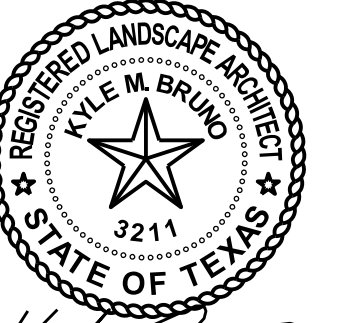
HARDSCAPE LEGEND

SYMBOL / NOTATION	DESCRIPTION
	CONCRETE SIDEWALKS (PER PLAN)
	8" CONCRETE BAND (PER PLAN)
	BARRIER FREE RAMP (PER PLAN)
	PLAYGROUND SURFACING (PER PLAN)
	7' WOOD FENCE (PER PLAN)
	PREFABRICATED THIN WALL (PER PLAN)
	7" MASONRY COLUMN (PER PLAN)
	SECONDARY ENTRANCE MONUMENT (PER PLAN)
	WALL MOUNT MONUMENT LOGO (PER PLAN)
	MAIN ENTRANCE MONUMENT (PER PLAN)
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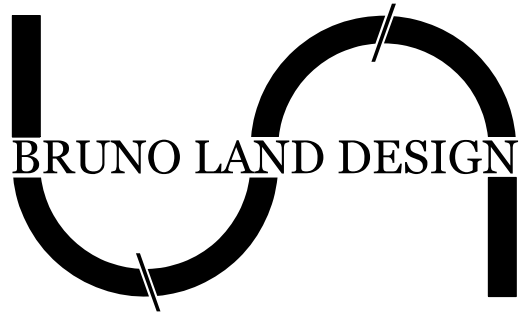
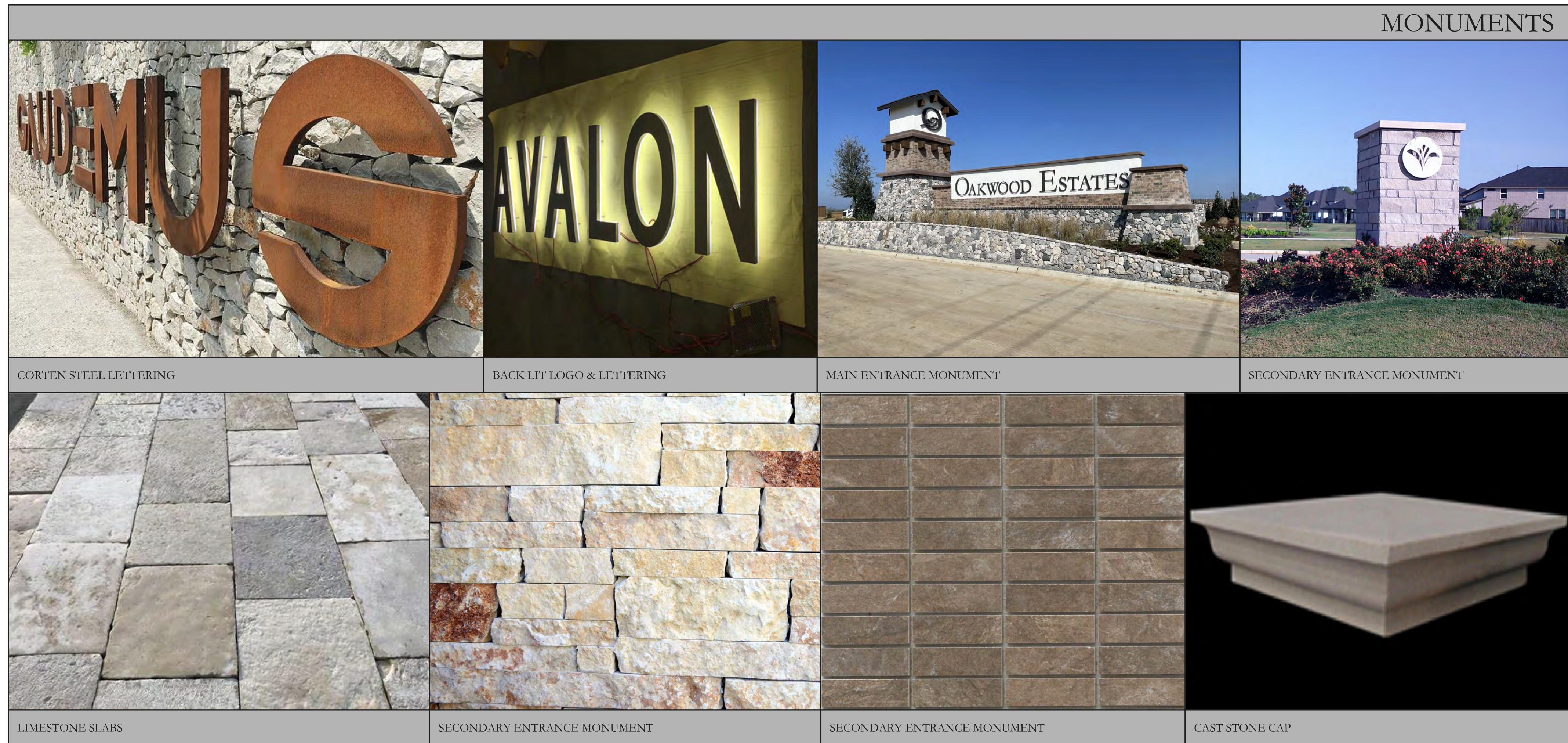
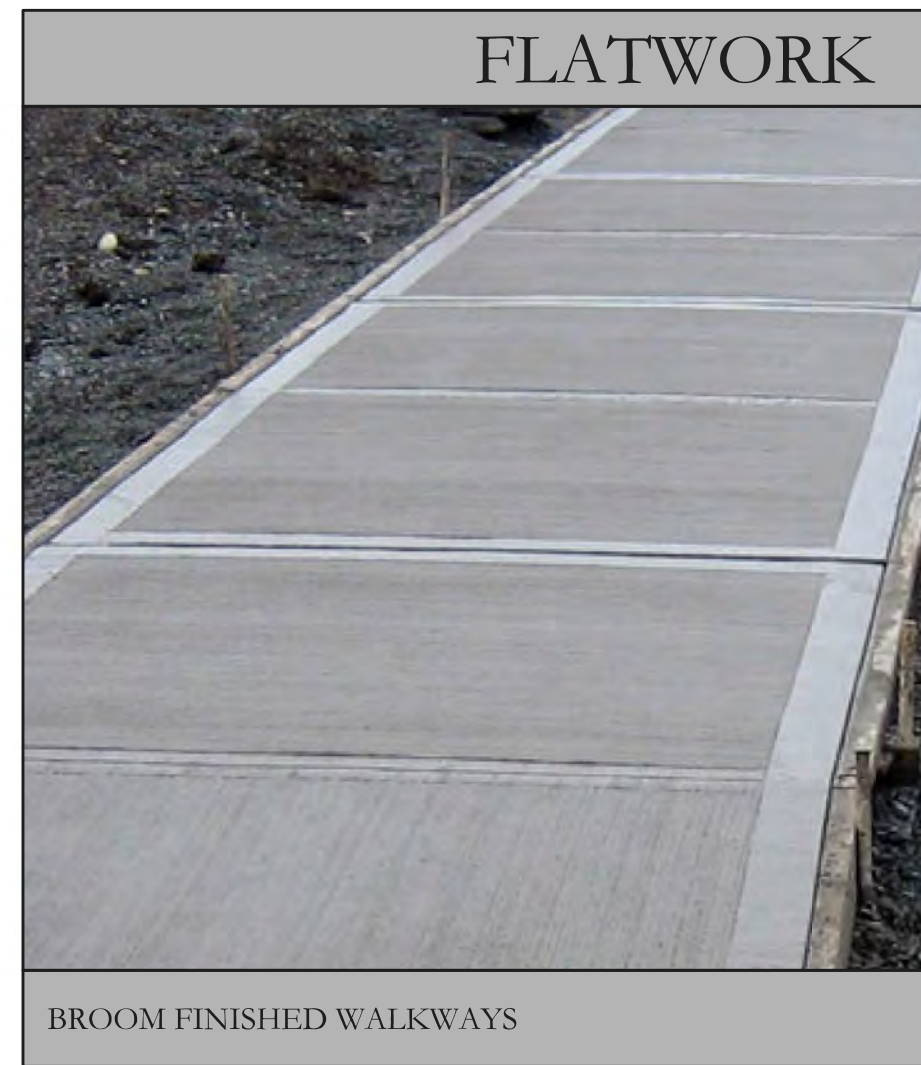


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LANDSCAPE DEVELOPMENT
Materials Concepts
Newhaven Residential Development
Manor, Travis County TX.

HARDSCAPE LEGEND

SYMBOL / NOTATION	DESCRIPTION
	CONCRETE SIDEWALKS (PER PLAN)
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	BARRIER FREE RAMP (PER PLAN)
	PLAYGROUND SURFACING (PER PLAN)
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	7" MASONRY COLUMN (PER PLAN)
	SECONDARY ENTRANCE MONUMENT (PER PLAN)
	WALL MOUNT MONUMENT LOGO (PER PLAN)
	MAIN ENTRANCE MONUMENT (PER PLAN)
	COVERWORK SIXPOST STEEL CANTILEVERED TRELLIS
	COVERWORK FOURPOST STEEL CANTILEVERED TRELLIS
	NUIN 2559 - BY BURKE PLAYGROUNDS
	2 - 5 STRUCTURE BY BURKE
	DOMES 3 BY BURKE



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LANDSCAPE DEVELOPMENT

Materials Concepts

Newhaven Residential Development

Manor, Travis County TX.

MATCHLINE
 REF: SHEET L105, L305, L405
 REF: SHEET L1, L301, L401

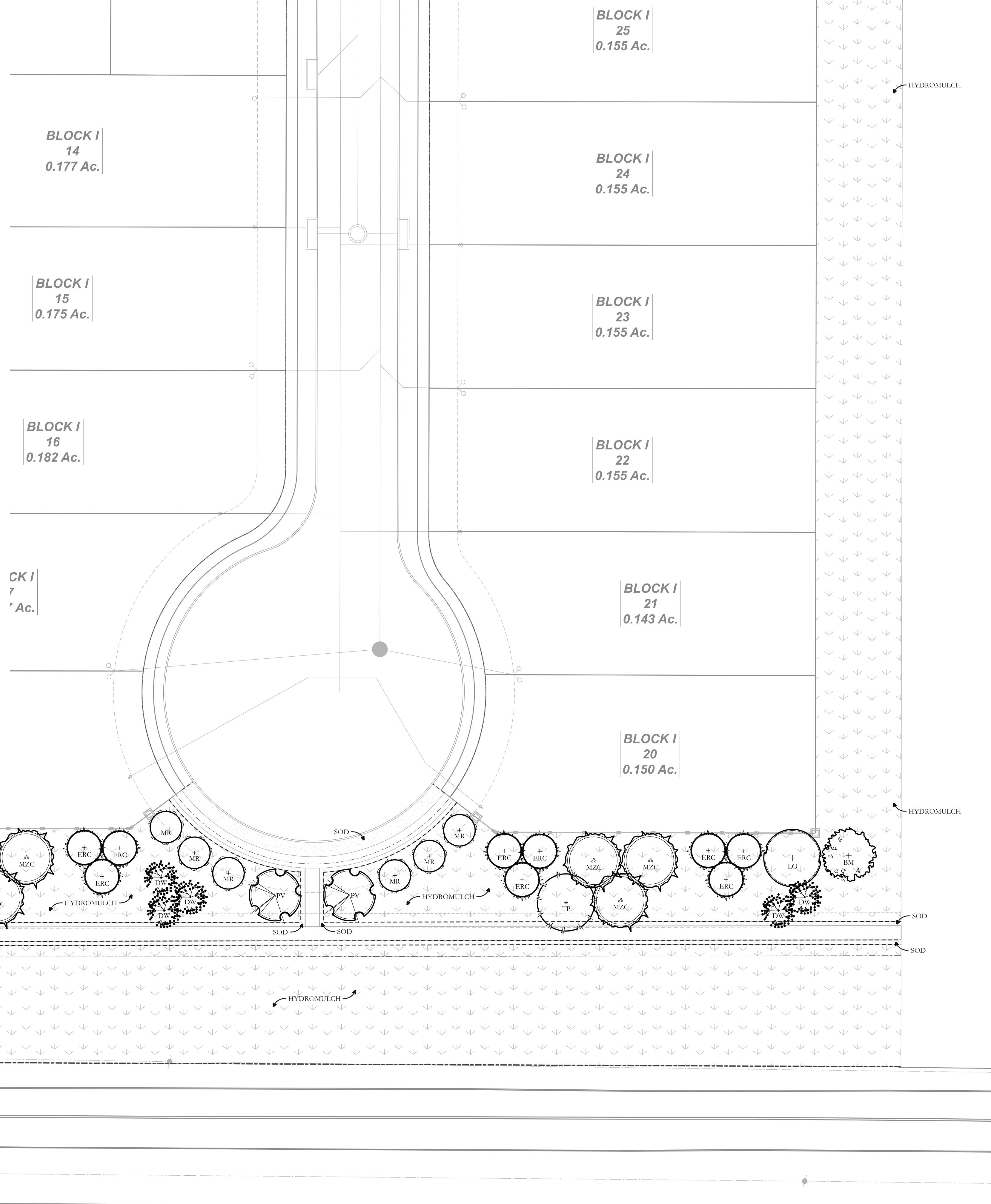
TREE SCHEDULE

SYMBOL	QTY.	ABV.	BOTANICAL NAME / COMMON
	22	(LO)	QUERCUS VIRGINIANA / LIVE OAK
	47	(TRO)	QUERCUS TEXANA / TEXAS RED OAK
	15	(MS)	PLATANUS MEXICANA / MEXICAN SYCAMORE
	52	(MZC)	TAXODIUM MUCRONATUM / MONTEZUMA CYPRESS
	41	(PV)	PARKINSONIA TEXANA VAR. MACRUM / PALOVERDE
	31	(BM)	ACER GRANDIDENTATUM / BIGTOOTH MAPLE
	21	(SC)	CATALPA BIGNONIOIDES / SOUTHERN CATALPA
	23	(TP)	LIRIODENDRON TULPIPERA / TULIP TREE
	38	(BP)	PINUS THUNBERGIANA / JAPANESE BLACK PINE
	38	(TML)	SOPHORA SCUNDIFLORA / TEXAS MOUNTAIN LAUREL
	83	(ERC)	JUNIPERUS VIRGINIANA / EASTERN RED CEDAR
	52	(HM)	PROSOPIA GLANDULOSA / MESQUITE 'HONEY'
	6	(MR)	CERCIS CANADENSIS 'MEXICANA' / MEXICAN REDBUD
	47	(RE)	PARKINSONIA ACULEATE / RETAMA
	18	(MXP)	PRUNUS MEXICANA / MEXICAN PLUM
	73	(WM)	MYRICA CERIFERA / WAX MYRTLE
	14	(GB)	GINKGO BILOBA / GINKGO
	34	(DW)	CHILOPSIS LINEARIS / DESERT WILLOW

REFERENCE SHEET L321 FOR COMPLETE SCHEDULE INFORMATION

PLANTING LEGEND

SYMBOL / NOTATION	DESCRIPTION
	EXISTING TREE TO REMAIN
	EXISTING TREE TO BE REMOVED
	V-TRENCHED EDGE - PER PLAN
	STEEL EDGE - PER PLAN
	LIMIT OF SOD
	BOULDER OUTCROPPING - PER PLAN
	PROPOSED TEXAS MOSS ROCK BOULDER (PER PLAN)
	PROPOSED BERMUDA SOLID SOD (PER PLAN)
	PROPOSED BERMUDA HYDRO MULCH (PER PLAN)
	PROPOSED PLANTING BED (PER PLAN)
	GRAVEL - PECOS PLAINS GRAVEL (PER PLAN)



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PLAN NORTH

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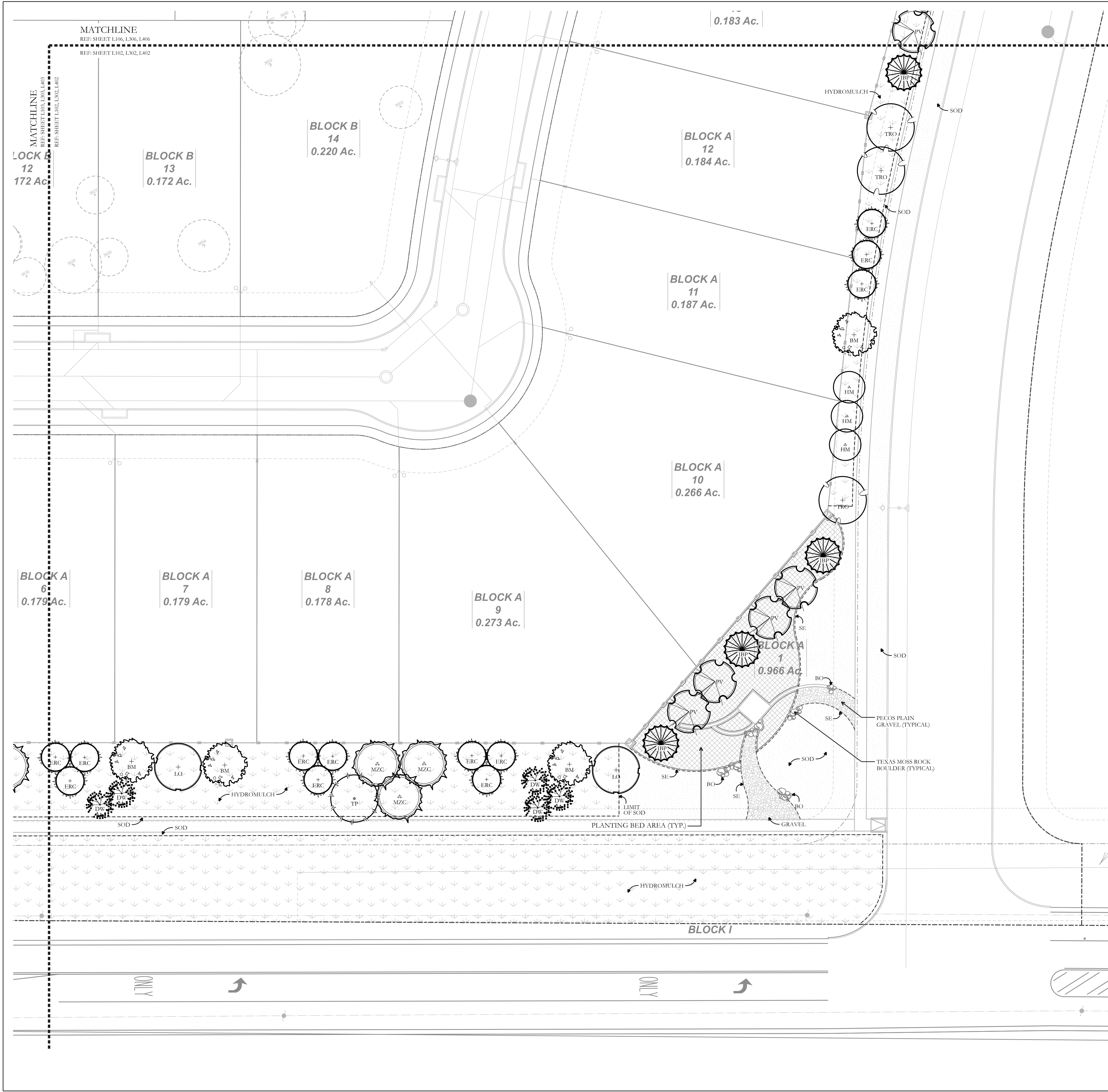


LANDSCAPE DEVELOPMENT

Planting Plan

Newhaven Residential Development

Manor, Travis County TX.



TREE SCHEDULE

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	41	(PV)	PARKINSONIA TEXANA VAR. MACRUM / PALOVERDE
	31	(BM)	ACER GRANDIDETATUM / BIGTOOTH MAPLE
	21	(SC)	CATALPA BIGNONIODES / SOUTHERN CATALPA
	23	(TP)	LIRIODENDRON TULIPIFERA / TULIP TREE
	38	(BP)	PINUS THUNBERGIANA / JAPANESE BLACK PINE
	38	(TML)	SOPHORA SCUNDFLORA / TEXAS MOUNTAIN LAUREL
	83	(ERC)	JUNIPERUS VIRGINIANA / EASTERN RED CEDAR
	52	(HM)	PROSOPIA GLANDULOSA / MESQUITE 'HONEY'
	6	(MR)	CERCIS CANADENSIS 'MEXICANA' / MEXICAN REDBUD
	47	(RE)	PARKINSONIA ACULEATE / RETAMA
	18	(MXP)	PRUNUS MEXICANA / MEXICAN PLUM
	73	(WM)	MYRICA CERIFERA / WAX MYRTLE
	14	(GB)	GINKGO BILOBA / GINKGO
	34	(DW)	CHILOPSIS LINEARIS / DESERT WILLOW

REFERENCE SHEET L321 FOR COMPLETE SCHEDULE INFORMATION

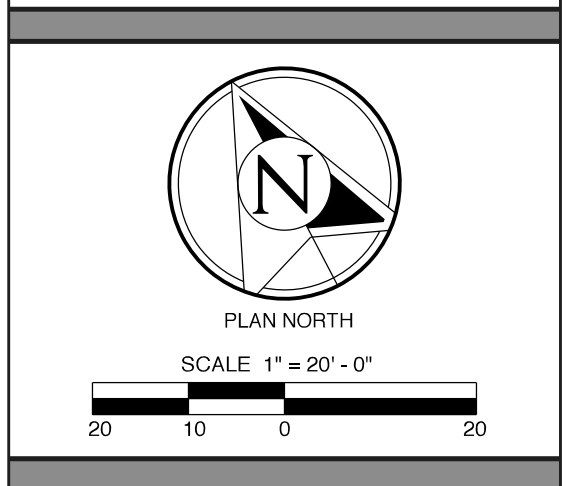
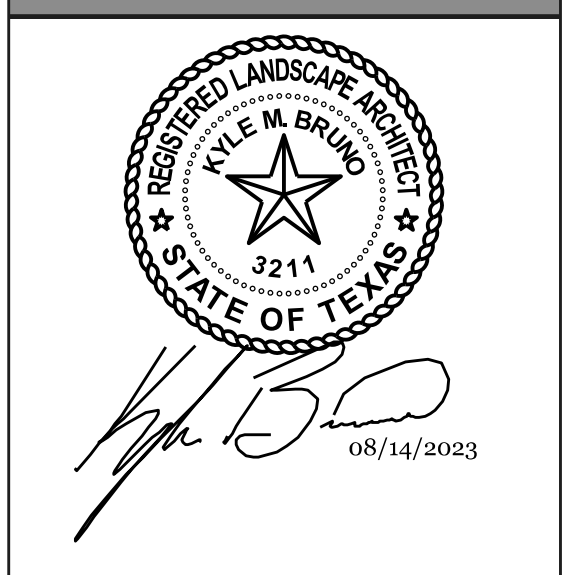
PLANTING LEGEND

SYMBOL / NOTATION	DESCRIPTION
	EXISTING TREE TO REMAIN
	EXISTING TREE TO BE REMOVED
	V-TRENCHED EDGE - PER PLAN
	STEEL EDGE - PER PLAN
	LIMIT OF SOD
	BOULDER OUTCROPPING - PER PLAN
	PROPOSED TEXAS MOSS ROCK BOULDER (PER PLAN)
	PROPOSED BERMUDA SOLID SOD (PER PLAN)
	PROPOSED BERMUDA HYDRO MULCH (PER PLAN)
	PROPOSED PLANTING BED (PER PLAN)
	GRAVEL - PECOS PLAINS GRAVEL (PER PLAN)

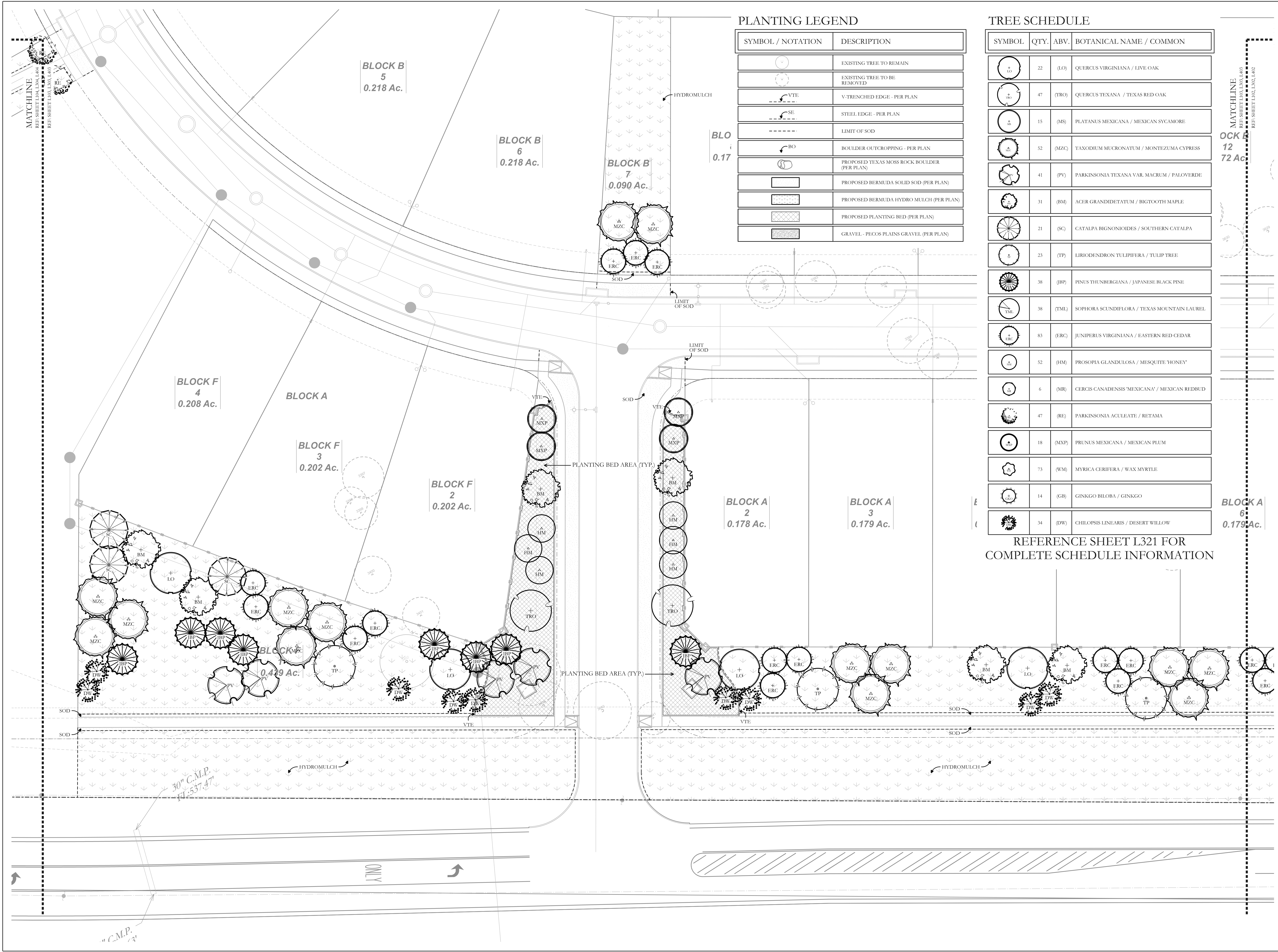
MATCHLINE
REF: SHEET L102, L101, L401
REF: SHEET L102, L101, L401
BLOCK B 12 0.172 Ac.
BLOCK B 13 0.172 Ac.
BLOCK B 14 0.220 Ac.
BLOCK A 12 0.184 Ac.
BLOCK A 11 0.187 Ac.
BLOCK A 10 0.266 Ac.
BLOCK A 9 0.273 Ac.
BLOCK A 8 0.178 Ac.
BLOCK A 7 0.179 Ac.
BLOCK A 6 0.179 Ac.
BLOCK A 1 0.966 Ac.
MATCHLINE
REF: SHEET L102, L101, L401
REF: SHEET L102, L101, L401
BLOCK 2.6:

BRUNO LAND DESIGN
1923 VICTORIA GARDEN DR. RICHMOND, TX 77406
KYLE@BRUNOLANDDESIGN.COM 409.382.0698

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LANDSCAPE DEVELOPMENT
Planting Plan
Newhaven Residential Development
Manor, Travis County TX.



PLANTING LEGEND

SYMBOL / NOTATION	DESCRIPTION
(Symbol: Circle with dot)	EXISTING TREE TO REMAIN
(Symbol: Circle with cross)	EXISTING TREE TO BE REMOVED
(Symbol: Dashed line with 'VTE')	V-TRENCHED EDGE - PER PLAN
(Symbol: Solid line with 'SE')	STEEL EDGE - PER PLAN
(Symbol: Dashed line)	LIMIT OF SOD
(Symbol: Circle with 'BO')	BOULDER OUTCROPPING - PER PLAN
(Symbol: Circle with 'M')	PROPOSED TEXAS MOSS ROCK BOULDER (PER PLAN)
(Symbol: Solid rectangle)	PROPOSED BERMUDA SOLID SOD (PER PLAN)
(Symbol: Dotted rectangle)	PROPOSED BERMUDA HYDRO MULCH (PER PLAN)
(Symbol: Cross-hatched rectangle)	PROPOSED PLANTING BED (PER PLAN)
(Symbol: Stippled rectangle)	GRAVEL - PECOS PLAINS GRAVEL (PER PLAN)

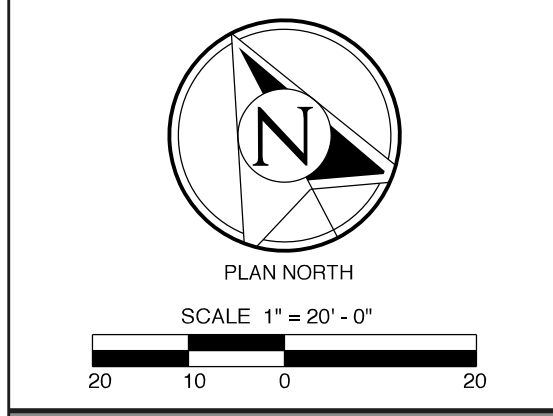
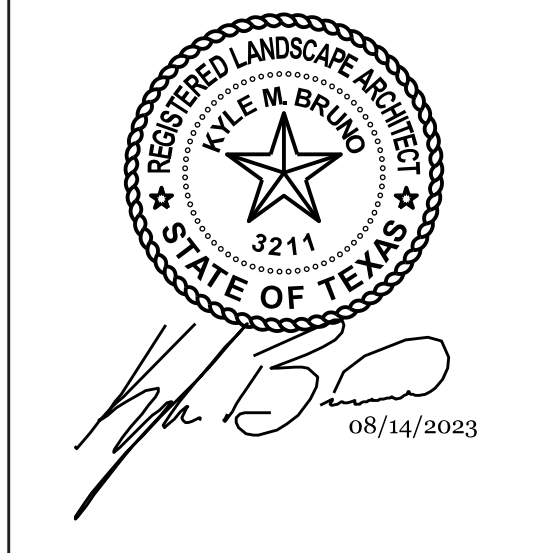
TREE SCHEDULE

SYMBOL	QTY.	ABV.	BOTANICAL NAME / COMMON
(Symbol: Circle with 'LO')	22	(LO)	QUERCUS VIRGINIANA / LIVE OAK
(Symbol: Circle with 'TRO')	47	(TRO)	QUERCUS TEXANA / TEXAS RED OAK
(Symbol: Circle with 'MS')	15	(MS)	PLATANUS MEXICANA / MEXICAN SYCAMORE
(Symbol: Circle with 'MZC')	52	(MZC)	TAXODIUM MUCRONATUM / MONTEZUMA CYPRESS
(Symbol: Circle with 'PV')	41	(PV)	PARKINSONIA TEXANA VAR. MACRUM / PALOVERDE
(Symbol: Circle with 'BM')	31	(BM)	ACER GRANDIDETATUM / BIGTOOTH MAPLE
(Symbol: Circle with 'SC')	21	(SC)	CATALPA BIGNONIODES / SOUTHERN CATALPA
(Symbol: Circle with 'TP')	23	(TP)	LIRIODENDRON TULIPIFERA / TULIP TREE
(Symbol: Circle with 'JPB')	38	(JPB)	PINUS THUNBERGIANA / JAPANESE BLACK PINE
(Symbol: Circle with 'TML')	38	(TML)	SOPHORA SCUNDIFLORA / TEXAS MOUNTAIN LAUREL
(Symbol: Circle with 'ERC')	83	(ERC)	JUNIPERUS VIRGINIANA / EASTERN RED CEDAR
(Symbol: Circle with 'HM')	52	(HM)	PROSOPIA GLANDULOSA / MESQUITE 'HONEY'
(Symbol: Circle with 'MR')	6	(MR)	CERCIS CANADENSIS 'MEXICANA' / MEXICAN REDBUD
(Symbol: Circle with 'RE')	47	(RE)	PARKINSONIA ACULEATA / RETAMA
(Symbol: Circle with 'MXP')	18	(MXP)	PRUNUS MEXICANA / MEXICAN PLUM
(Symbol: Circle with 'GB')	14	(GB)	GINKGO BILOBA / GINKGO
(Symbol: Circle with 'DW')	34	(DW)	CHILOPSIS LINEARIS / DESERT WILLOW

REFERENCE SHEET L321 FOR COMPLETE SCHEDULE INFORMATION



NO.	DATE:	REVISION:
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LANDSCAPE DEVELOPMENT
Planting Plan
Newhaven Residential Development
Manor, Travis County TX.

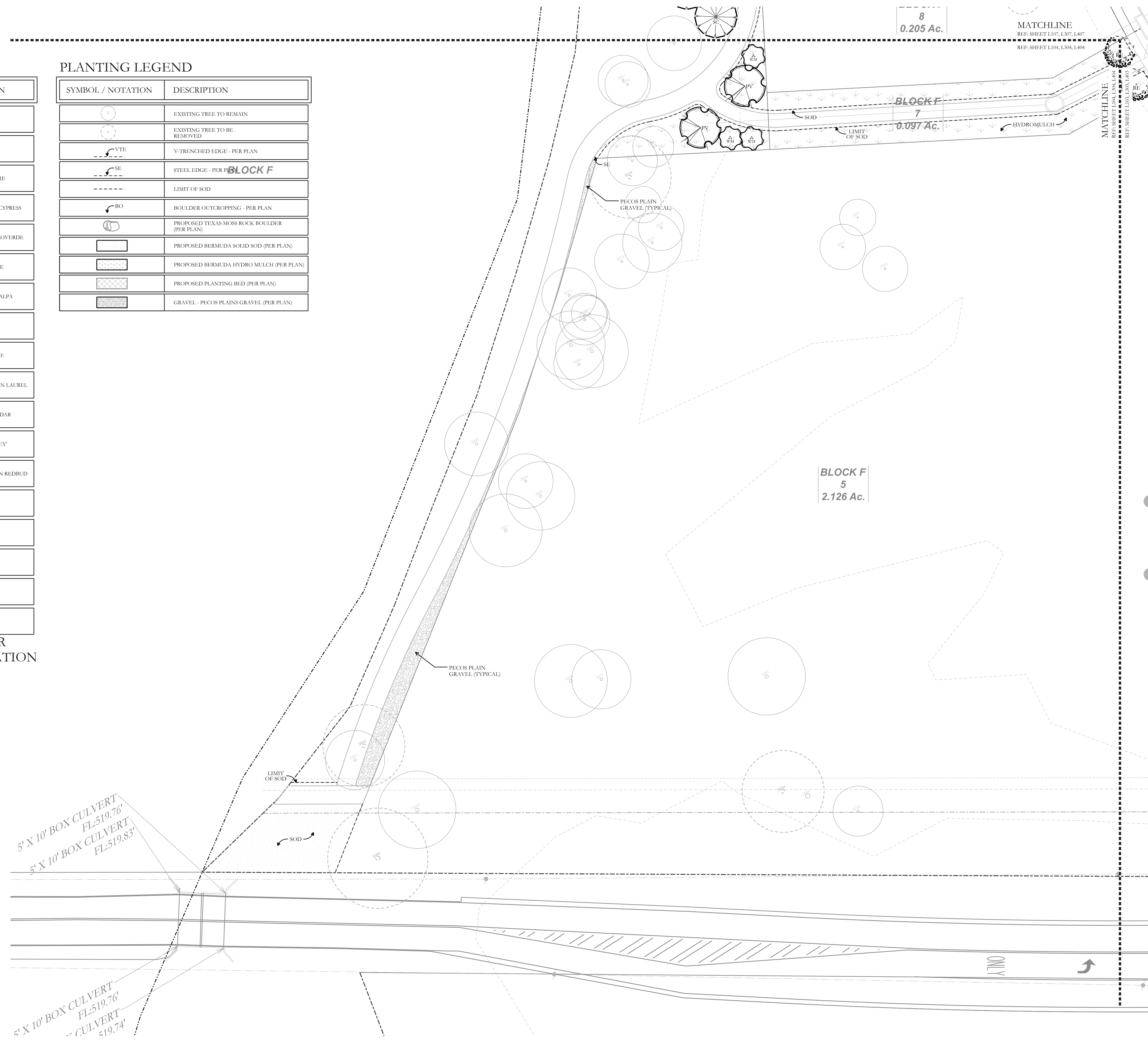
TREE SCHEDULE

SYMBOL	QTY.	ABV.	BOTANICAL NAME / COMMON
	22	(LO)	QUERCUS VIRGINIANA / LIVE OAK
	47	(TRO)	QUERCUS TEXANA / TEXAS RED OAK
	15	(MS)	PLATANUS MEXICANA / MEXICAN SYCAMORE
	52	(MZC)	TAXODIUM MUCRONATUM / MONTEZUMA CYPRESS
	41	(PV)	PARKINSONIA TEXANA VAR. MACRUM / PALOVERDE
	31	(BM)	ACER GRANDIDENTATUM / BIGTOOTH MAPLE
	21	(SC)	CATALPA BIGNONIOIDES / SOUTHERN CATALPA
	23	(TP)	LIRIODENDRON TULIPIFERA / TULIP TREE
	38	(BP)	PINUS THUNBERGIANA / JAPANESE BLACK PINE
	38	(TML)	SOPHORA SCUNDIFLORA / TEXAS MOUNTAIN LAUREL
	83	(ERC)	JUNIPERUS VIRGINIANA / EASTERN RED CEDAR
	52	(HM)	PROSOPIA GLANDULOSA / MESQUITE 'HONEY'
	6	(MR)	CERCIS CANADENSIS 'MEXICANA' / MEXICAN REDBUD
	47	(RE)	PARKINSONIA ACULEATE / RETAMA
	18	(MXP)	PRUNUS MEXICANA / MEXICAN PLUM
	73	(WM)	MYRICA CERIFERA / WAX MYRTLE
	14	(GB)	GINKGO BILOBA / GINKGO
	34	(DW)	CHILOPSIS LINEARIS / DESERT WILLOW

REFERENCE SHEET L321 FOR COMPLETE SCHEDULE INFORMATION

PLANTING LEGEND

SYMBOL / NOTATION	DESCRIPTION
	EXISTING TREE TO REMAIN
	EXISTING TREE TO BE REMOVED
	V-TRENCHED EDGE - PER PLAN
	STEEL EDGE - PER PLAN
	LIMIT OF SOD
	BOULDER OUTCROPPING - PER PLAN
	PROPOSED TEXAS MOSS ROCK BOULDER (PER PLAN)
	PROPOSED BERMUDA SOLID SOD (PER PLAN)
	PROPOSED BERMUDA HYDRO MULCH (PER PLAN)
	PROPOSED PLANTING BED (PER PLAN)
	GRAVEL - PECOS PLAINS GRAVEL (PER PLAN)



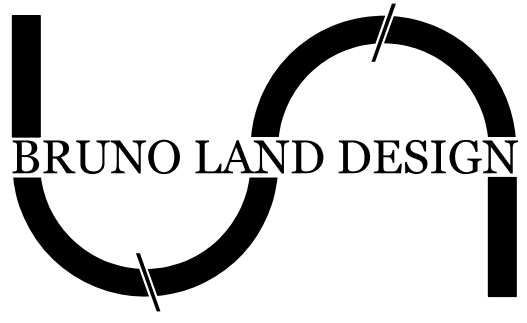
8
0.205 Ac.
MATCHLINE
REF: SHEET L107, L307, L407
REF: SHEET L104, L304, L404

BLOCK F
7
0.097 Ac.
SOD
LIMIT OF SOD
HYDROMULCH

BLOCK F
5
2.126 Ac.

5' X 10' BOX CULVERT
FL: 519.76'
5' X 10' BOX CULVERT
FL: 519.83'

5' X 10' BOX CULVERT
FL: 519.76'
CULVERT
519.74'

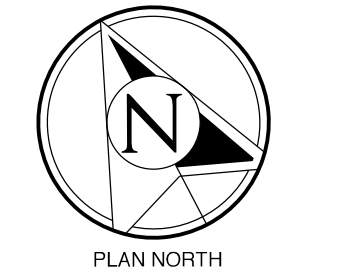


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Kyle M. Bruno
08/14/2023



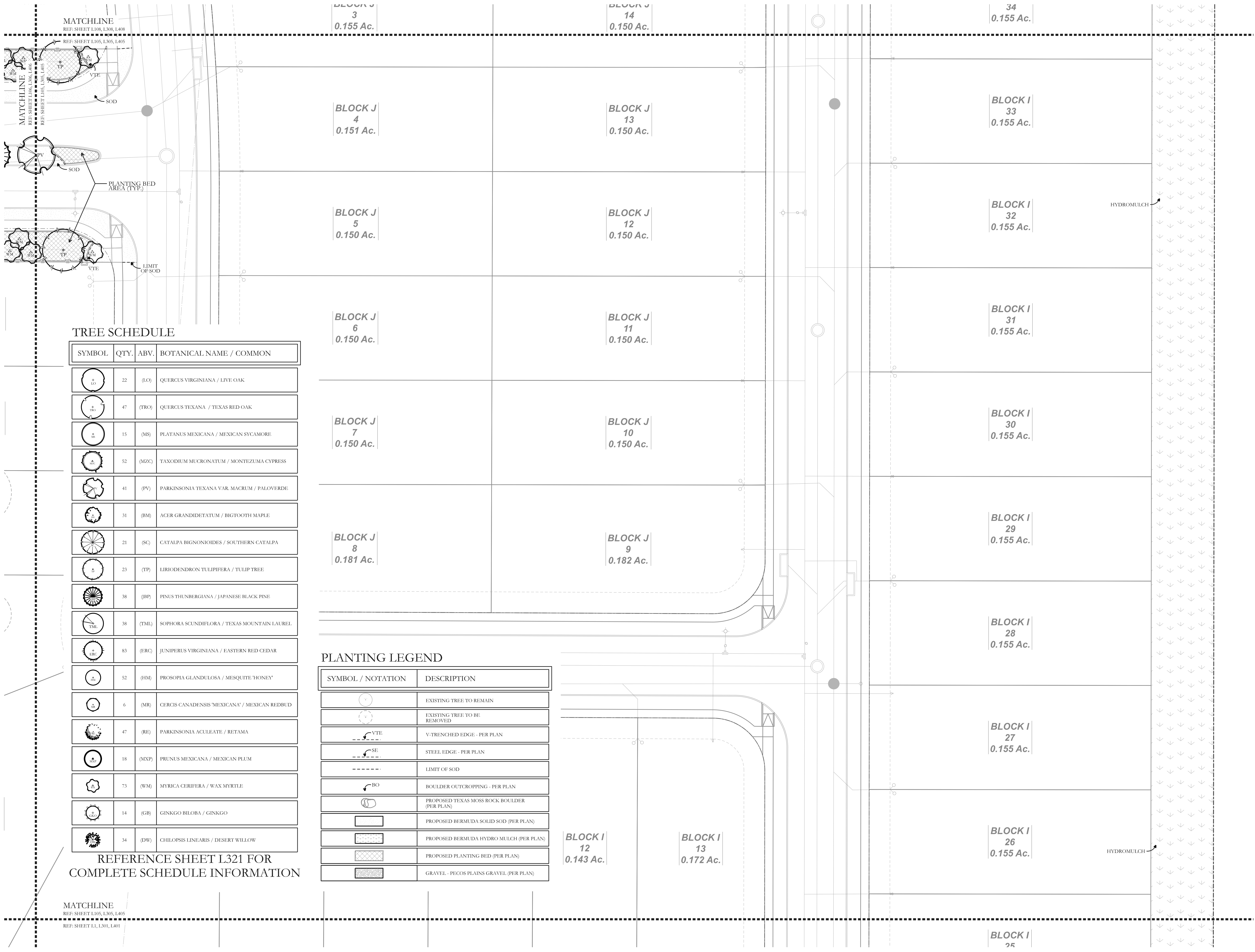
PLAN NORTH
SCALE 1" = 20'-0"

LANDSCAPE DEVELOPMENT

Planting Plan

Newhaven Residential Development

Manor, Travis County TX.



TREE SCHEDULE

SYMBOL	QTY.	ABV.	BOTANICAL NAME / COMMON
	22	(LO)	QUERCUS VIRGINIANA / LIVE OAK
	47	(TRO)	QUERCUS TEXANA / TEXAS RED OAK
	15	(MS)	PLATANUS MEXICANA / MEXICAN SYCAMORE
	52	(MZC)	TAXODIUM MUCRONATUM / MONTEZUMA CYPRESS
	41	(PV)	PARKINSONIA TEXANA VAR. MACRUM / PALOVERDE
	31	(BM)	ACER GRANDIDETATUM / BIGTOOTH MAPLE
	21	(SC)	CATALPA BIGNONIODES / SOUTHERN CATALPA
	23	(TP)	LIRIODENDRON TULIPIFERA / TULIP TREE
	38	(JBP)	PINUS THUNBERGIANA / JAPANESE BLACK PINE
	38	(TML)	SOPHORA SCUNDIFLORA / TEXAS MOUNTAIN LAUREL
	83	(ERC)	JUNIPERUS VIRGINIANA / EASTERN RED CEDAR
	52	(HM)	PROSOPIA GLANDULOSA / MESQUITE 'HONEY'
	6	(MR)	CERCIS CANADENSIS 'MEXICANA' / MEXICAN REDBUD
	47	(RE)	PARKINSONIA ACULEATE / RETAMA
	18	(MXP)	PRUNUS MEXICANA / MEXICAN PLUM
	73	(WM)	MYRICA CERIFERA / WAX MYRTLE
	14	(GB)	GINKGO BILOBA / GINKGO
	34	(DW)	CHILOPSIS LINEARIS / DESERT WILLOW

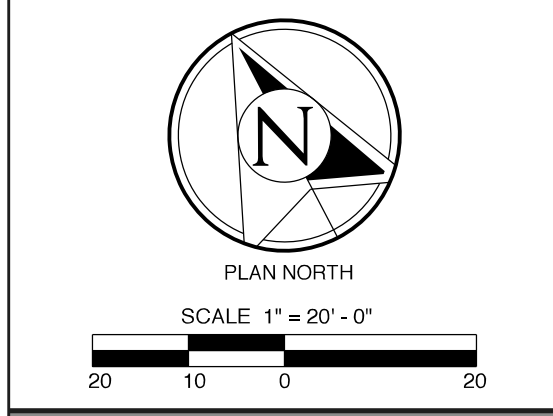
PLANTING LEGEND

SYMBOL / NOTATION	DESCRIPTION
	EXISTING TREE TO REMAIN
	EXISTING TREE TO BE REMOVED
	V-TRENCHED EDGE - PER PLAN
	STEEL EDGE - PER PLAN
	LIMIT OF SOD
	BOULDER OUTCROPPING - PER PLAN
	PROPOSED TEXAS MOSS ROCK BOULDER (PER PLAN)
	PROPOSED BERMUDA SOLID SOD (PER PLAN)
	PROPOSED BERMUDA HYDRO MULCH (PER PLAN)
	PROPOSED PLANTING BED (PER PLAN)
	GRAVEL - PECOS PLAINS GRAVEL (PER PLAN)

REFERENCE SHEET L321 FOR COMPLETE SCHEDULE INFORMATION

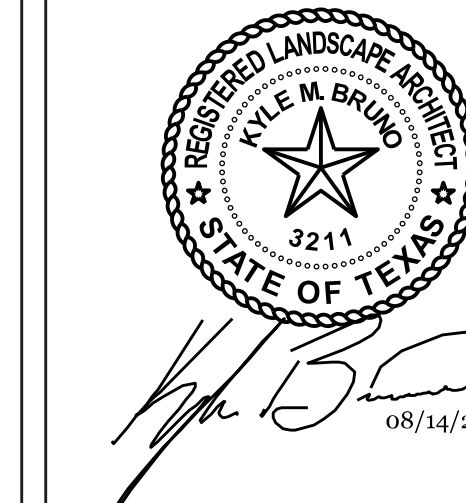
MATCHLINE
REF: SHEET L105, L305, L405
REF: SHEET L1, L301, L401

NO.	DATE	REVISION
1	08/14/23	ISSUED FOR PERMIT



LANDSCAPE DEVELOPMENT
 Planting Plan
 Newhaven Residential Development
 Manor, Travis County TX.

NO.	DATE	REVISION
1	08/14/23	ISSUED FOR PERMIT



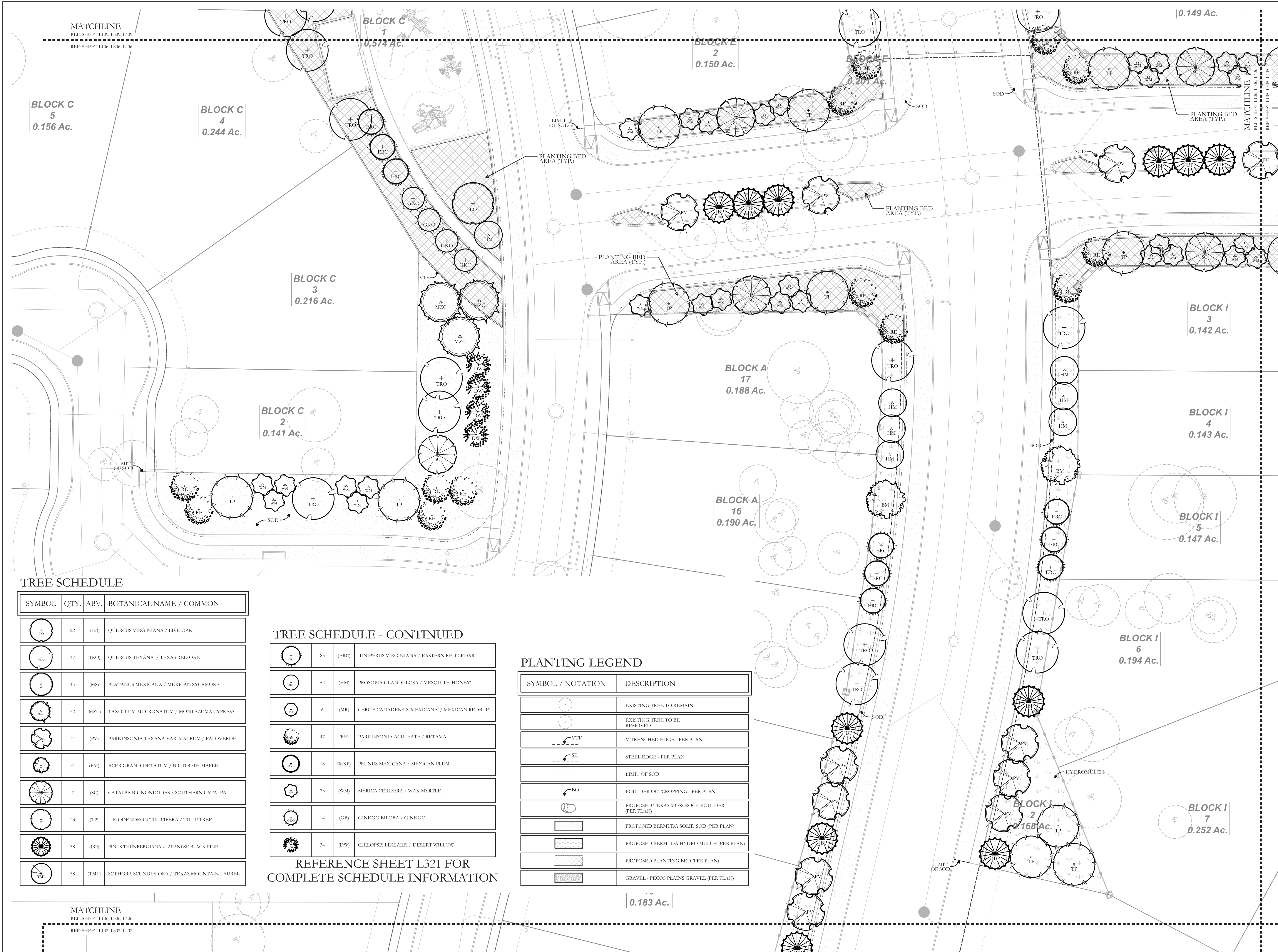
SCALE 1" = 20'-0"

LANDSCAPE DEVELOPMENT

Planting Plan

Newhaven Residential Development

Manor, Travis County TX.



TREE SCHEDULE

SYMBOL	QTY.	ABV.	BOTANICAL NAME / COMMON
(LO)	22	(LO)	QUERCUS VIRGINIANA / LIVE OAK
(TRO)	47	(TRO)	QUERCUS TEXANA / TEXAS RED OAK
(MS)	15	(MS)	PLATANUS MEXICANA / MEXICAN SYCAMORE
(MZC)	52	(MZC)	TAXODIUM MUCRONATUM / MONTEZUMA CYPRESS
(PV)	41	(PV)	PARKINSONIA TEXANA VAR. MACRUM / PALOVERDE
(BM)	31	(BM)	ACER GRANDIDETATUM / BIGTOOTH MAPLE
(SC)	21	(SC)	CATALPA BIGNONIODES / SOUTHERN CATALPA
(TP)	23	(TP)	LIRIODENDRON TULIPIFERA / TULIP TREE
(JP)	38	(JP)	PINUS THUNBERGIANA / JAPANESE BLACK PINE
(TM)	38	(TM)	SOPHORA SCUNDFLORA / TEXAS MOUNTAIN LAUREL

TREE SCHEDULE - CONTINUED

(ERC)	83	(ERC)	JUNIPERUS VIRGINIANA / EASTERN RED CEDAR
(HM)	52	(HM)	PROSOPIA GLANDULOSA / MESQUITE 'HONEY'
(MR)	6	(MR)	CERCIS CANADENSIS 'MEXICANA' / MEXICAN REDBUD
(RE)	47	(RE)	PARKINSONIA ACULEATE / RETAMA
(MXP)	18	(MXP)	PRUNUS MEXICANA / MEXICAN PLUM
(WM)	73	(WM)	MYRICA CERIFERA / WAX MYRTLE
(GB)	14	(GB)	GINKGO BILOBA / GINKGO
(DW)	34	(DW)	CHILLOPSIS LINEARIS / DESERT WILLOW

REFERENCE SHEET L321 FOR COMPLETE SCHEDULE INFORMATION

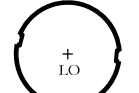

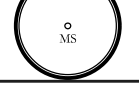




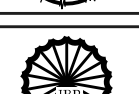
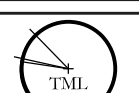


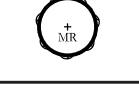


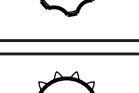
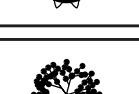


PLANTING LEGEND

SYMBOL / NOTATION	DESCRIPTION
(Circle with dot)	EXISTING TREE TO REMAIN
(Circle with cross)	EXISTING TREE TO BE REMOVED
(V-shaped line)	V-TRENCHED EDGE - PER PLAN
(S-shaped line)	STEEL EDGE - PER PLAN
(Dashed line)	LIMIT OF SOD
(Circle with 'BO')	BOULDER OUTCROPPING - PER PLAN
(Circle with 'B')	PROPOSED TEXAS MOSS ROCK BOULDER (PER PLAN)
(Square with diagonal lines)	PROPOSED BERMUDA SOLID SOD (PER PLAN)
(Square with cross-hatch)	PROPOSED BERMUDA HYDRO MULCH (PER PLAN)
(Square with dots)	PROPOSED PLANTING BED (PER PLAN)
(Square with horizontal lines)	GRAVEL - PECOS PLAINS GRAVEL (PER PLAN)

MATCHLINE
 REF: SHEET L109, L309, L409
 REF: SHEET L106, L306, L406

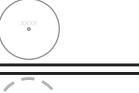

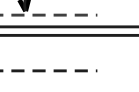


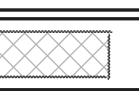





MATCHLINE
 REF: SHEET L106, L306, L406
 REF: SHEET L102, L302, L402

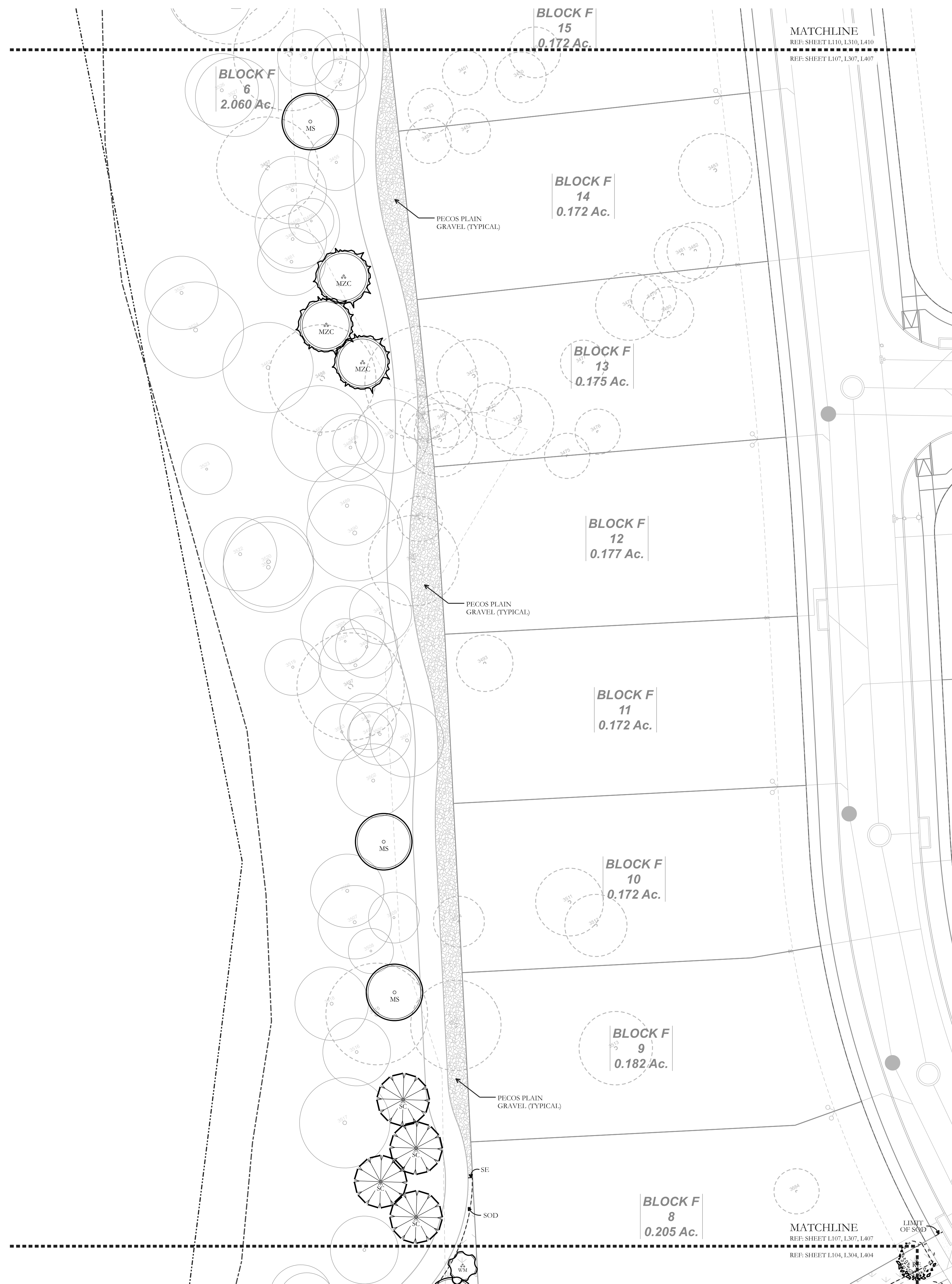
TREE SCHEDULE

SYMBOL	QTY.	ABV.	BOTANICAL NAME / COMMON
	22	(LO)	QUERCUS VIRGINIANA / LIVE OAK
	47	(TRO)	QUERCUS TEXANA / TEXAS RED OAK
	15	(MS)	PLATANUS MEXICANA / MEXICAN SYCAMORE
	52	(MZC)	TAXODIUM MUCRONATUM / MONTEZUMA CYPRESS
	41	(PV)	PARKINSONIA TEXANA VAR. MACRUM / PALOVERDE
	31	(BM)	ACER GRANDIDETATUM / BIGTOOTH MAPLE
	21	(SC)	CATALPA BIGNONIODES / SOUTHERN CATALPA
	23	(TP)	LIRIODENDRON TULIPIFERA / TULIP TREE
	38	(JBP)	PINUS THUNBERGIANA / JAPANESE BLACK PINE
	38	(TML)	SOPHORA SCUNDFLORA / TEXAS MOUNTAIN LAUREL
	83	(JRC)	JUNIPERUS VIRGINIANA / EASTERN RED CEDAR
	52	(HM)	PROSOPIA GLANDULOSA / MESQUITE 'HONEY'
	6	(MR)	CERCIS CANADENSIS 'MEXICANA' / MEXICAN REDBUD
	47	(RI)	PARKINSONIA ACULEATA / RETAMA
	18	(MXP)	PRUNUS MEXICANA / MEXICAN PLUM
	73	(WM)	MYRICA CERIFERA / WAX MYRTLE
	14	(GB)	GINKGO BILOBA / GINKGO
	34	(DW)	CHLOPSIS LINEARIS / DESERT WILLOW

REFERENCE SHEET L321 FOR COMPLETE SCHEDULE INFORMATION

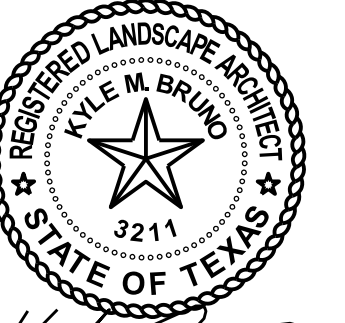
PLANTING LEGEND

SYMBOL / NOTATION	DESCRIPTION
	EXISTING TREE TO REMAIN
	EXISTING TREE TO BE REMOVED
	V-TRENCHED EDGE - PER PLAN
	STEEL EDGE - PER PLAN
	LIMIT OF SOD
	BOULDER OUTCROPPING - PER PLAN
	PROPOSED TEXAS MOSS ROCK BOULDER (PER PLAN)
	PROPOSED BERMUDA SOLID SOD (PER PLAN)
	PROPOSED BERMUDA HYDRO MULCH (PER PLAN)
	PROPOSED PLANTING BED (PER PLAN)
	GRAVEL - PECOS PLAINS GRAVEL (PER PLAN)

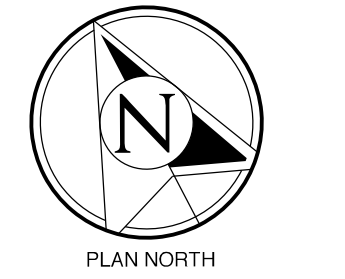


1923 VICTORIA GARDEN DR. RICHMOND, TX 77406
 KYLE@BRUNOLANDDESIGN.COM 409.382.6698

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PLAN NORTH

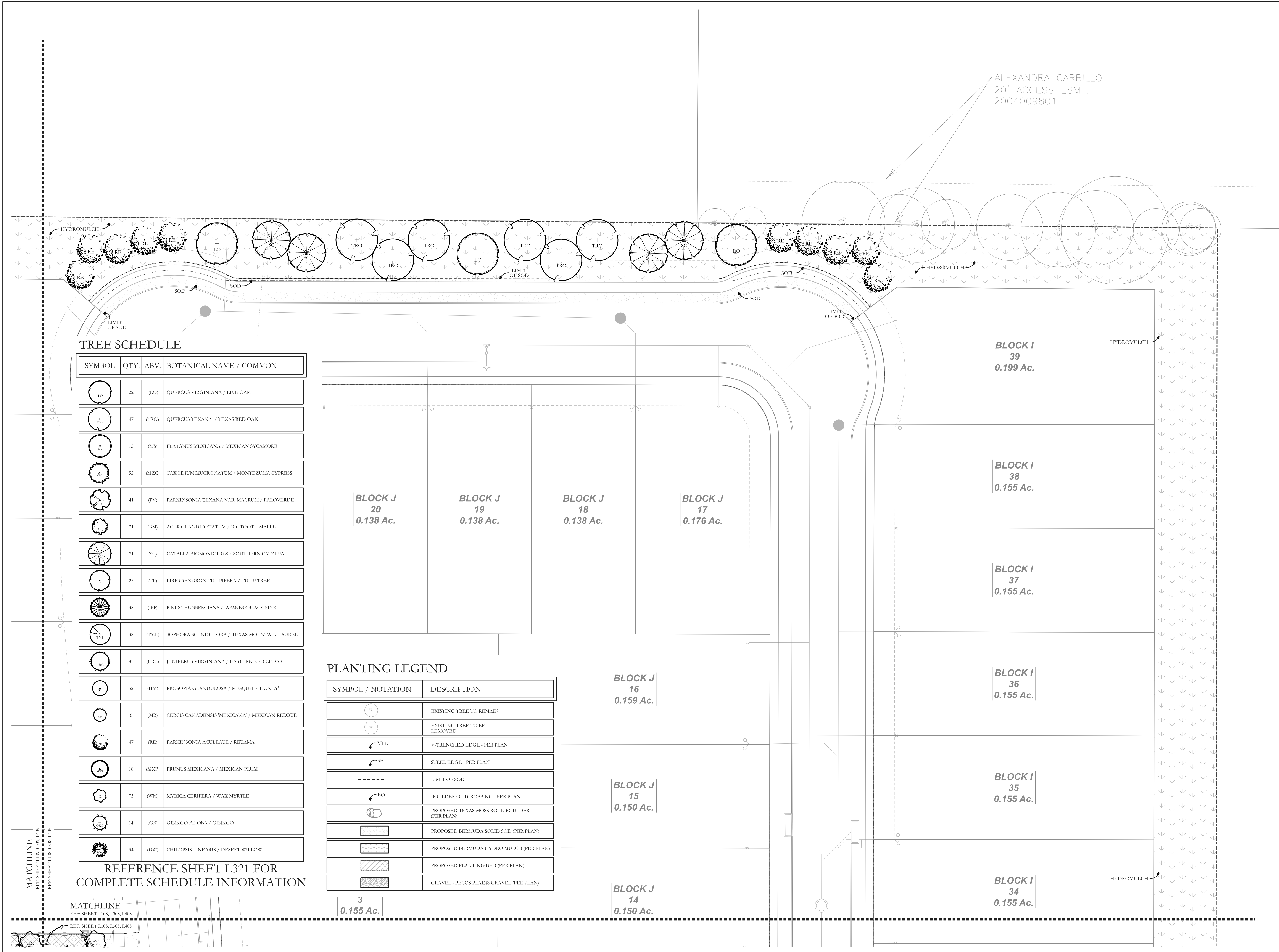
SCALE 1" = 20'-0"

LANDSCAPE DEVELOPMENT

Planting Plan

Newhaven Residential Development

Manor, Travis County TX.



ALEXANDRA CARRILLO
 20' ACCESS ESMT.
 2004009801

TREE SCHEDULE

SYMBOL	QTY.	ABV.	BOTANICAL NAME / COMMON
(LO)	22	(LO)	QUERCUS VIRGINIANA / LIVE OAK
(TRO)	47	(TRO)	QUERCUS TEXANA / TEXAS RED OAK
(MS)	15	(MS)	PLATANUS MEXICANA / MEXICAN SYCAMORE
(MZC)	52	(MZC)	TAXODIUM MUCRONATUM / MONTEZUMA CYPRESS
(PV)	41	(PV)	PARKINSONIA TEXANA VAR. MAGRUM / PALOVERDE
(BM)	31	(BM)	ACER GRANDIDETATUM / BIGTOOTH MAPLE
(SC)	21	(SC)	CATALPA BIGNONIODES / SOUTHERN CATALPA
(TP)	23	(TP)	LIRIODENDRON TULPIFERA / TULIP TREE
(BP)	38	(BP)	PINUS THUNBERGIANA / JAPANESE BLACK PINE
(TML)	38	(TML)	SOPHORA SCUNDIFLORA / TEXAS MOUNTAIN LAUREL
(ERC)	83	(ERC)	JUNIPERUS VIRGINIANA / EASTERN RED CEDAR
(HM)	52	(HM)	PROSOPIA GLANDULOSA / MESQUITE 'HONEY'
(MR)	6	(MR)	CERCIS CANADENSIS 'MEXICANA' / MEXICAN REDBUD
(RE)	47	(RE)	PARKINSONIA ACULEATE / RETAMA
(MXP)	18	(MXP)	PRUNUS MEXICANA / MEXICAN PLUM
(WM)	73	(WM)	MYRICA CERIFERA / WAX MYRTLE
(GB)	14	(GB)	GINKGO BILOBA / GINKGO
(DW)	34	(DW)	CHLOPSIS LINEARIS / DESERT WILLOW

REFERENCE SHEET L321 FOR COMPLETE SCHEDULE INFORMATION

PLANTING LEGEND

SYMBOL / NOTATION	DESCRIPTION
(Circle with dot)	EXISTING TREE TO REMAIN
(Circle with X)	EXISTING TREE TO BE REMOVED
(V-shaped line)	V-TRENCHED EDGE - PER PLAN
(S-shaped line)	STEEL EDGE - PER PLAN
(Dashed line)	LIMIT OF SOD
(Circle with BO)	BOULDER OUTCROPPING - PER PLAN
(Circle with TM)	PROPOSED TEXAS MOSS ROCK BOULDER (PER PLAN)
(Solid rectangle)	PROPOSED BERMUDA SOLID SOD (PER PLAN)
(Dotted rectangle)	PROPOSED BERMUDA HYDRO MULCH (PER PLAN)
(Cross-hatched rectangle)	PROPOSED PLANTING BED (PER PLAN)
(Stippled rectangle)	GRAVEL - PECOS PLAINS GRAVEL (PER PLAN)

MATCHLINE
 REF: SHEET L109, L109, L409
 REF: SHEET L108, L108, L408

MATCHLINE
 REF: SHEET L108, L108, L408
 REF: SHEET L105, L105, L405

BLOCK J
 3
 0.155 Ac.

BLOCK J
 14
 0.150 Ac.

BLOCK J
 15
 0.150 Ac.

BLOCK J
 16
 0.159 Ac.

BLOCK J
 20
 0.138 Ac.

BLOCK J
 19
 0.138 Ac.

BLOCK J
 18
 0.138 Ac.

BLOCK J
 17
 0.176 Ac.

BLOCK I
 39
 0.199 Ac.

BLOCK I
 38
 0.155 Ac.

BLOCK I
 37
 0.155 Ac.

BLOCK I
 36
 0.155 Ac.

BLOCK I
 35
 0.155 Ac.

BLOCK I
 34
 0.155 Ac.

MATCHLINE
 REF: SHEET L111, L131, L411
 REF: SHEET L109, L109, L409

TREE SCHEDULE

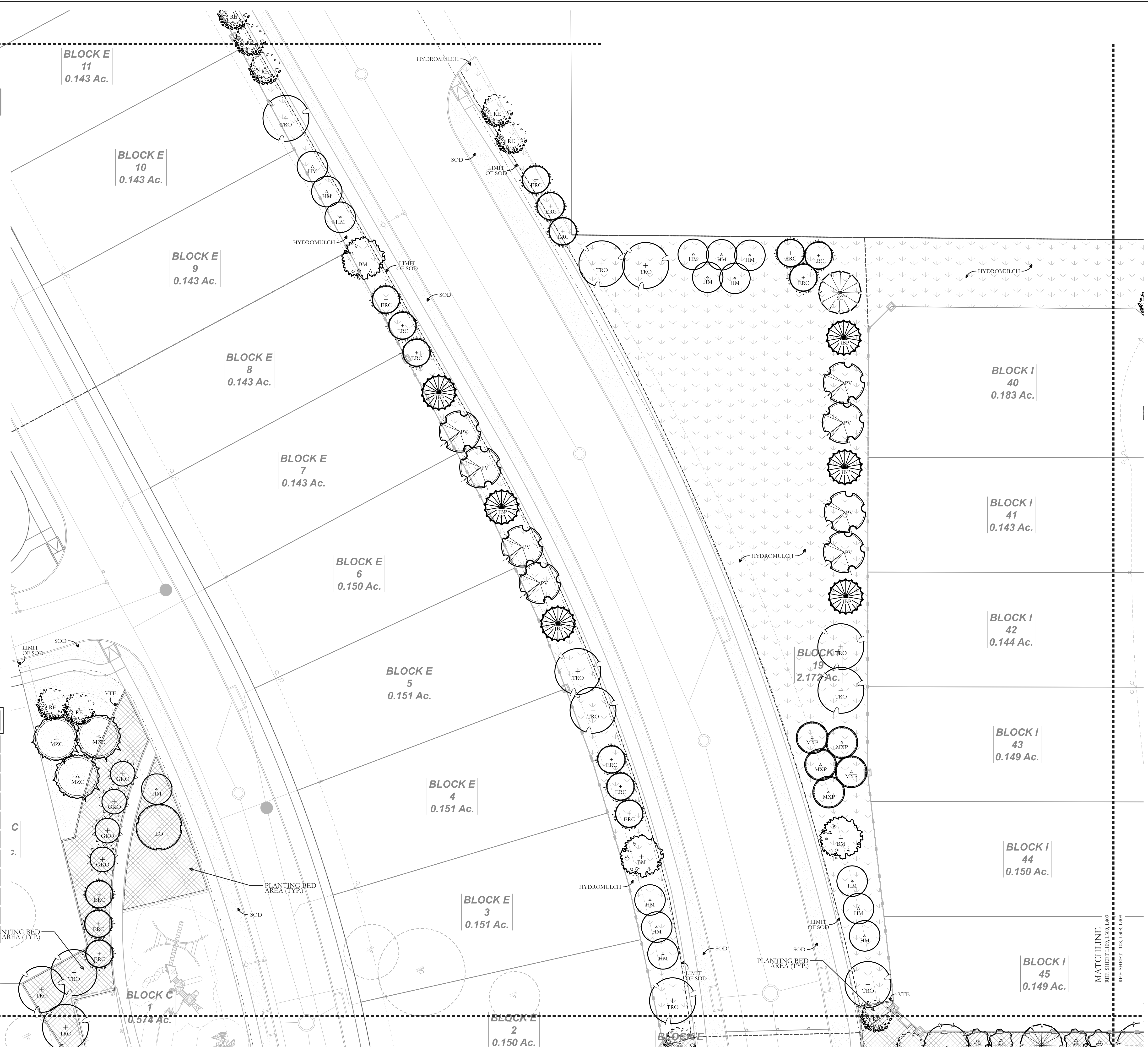
SYMBOL	QTY.	ABV.	BOTANICAL NAME / COMMON
(LO)	22	(LO)	QUERCUS VIRGINIANA / LIVE OAK
(TRO)	47	(TRO)	QUERCUS TEXANA / TEXAS RED OAK
(MS)	15	(MS)	PLATANUS MEXICANA / MEXICAN SYCAMORE
(MZC)	52	(MZC)	TAXODIUM MUCRONATUM / MONTEZUMA CYPRESS
(PV)	41	(PV)	PARKINSONIA TEXANA VAR. MACRUM / PALOVERDE
(BM)	31	(BM)	ACER GRANDIDETATUM / BIGTOOTH MAPLE
(SC)	21	(SC)	CATALPA BIGNONIODES / SOUTHERN CATALPA
(TP)	23	(TP)	LIRIODENDRON TULIPIFERA / TULIP TREE
(BP)	38	(BP)	PINUS THUNBERGIANA / JAPANESE BLACK PINE
(TML)	38	(TML)	SOPHORA SCUNDIFLORA / TEXAS MOUNTAIN LAUREL
(ERC)	83	(ERC)	JUNIPERUS VIRGINIANA / EASTERN RED CEDAR
(HM)	52	(HM)	PROSOPIA GLANDULOSA / MESQUITE 'HONEY'
(MR)	6	(MR)	CERCIS CANADENSIS 'MEXICANA' / MEXICAN REDBUD
(RE)	47	(RE)	PARKINSONIA ACULEATA / RETAMA
(MXP)	18	(MXP)	PRUNUS MEXICANA / MEXICAN PLUM
(WM)	73	(WM)	MYRICA CERIFERA / WAX MYRTLE
(GB)	14	(GB)	GINKGO BILOBA / GINKGO
(DW)	34	(DW)	CHLOPSIS LINEARIS / DESERT WILLOW

REFERENCE SHEET L321 FOR COMPLETE SCHEDULE INFORMATION

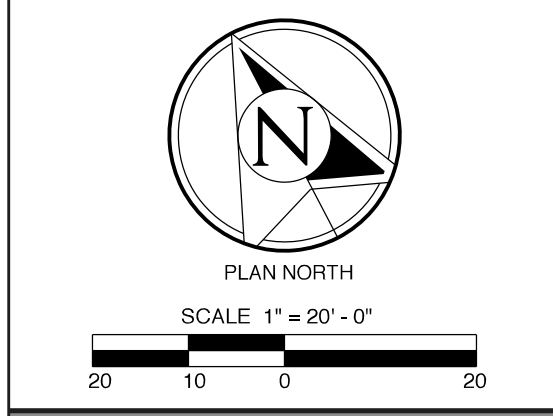
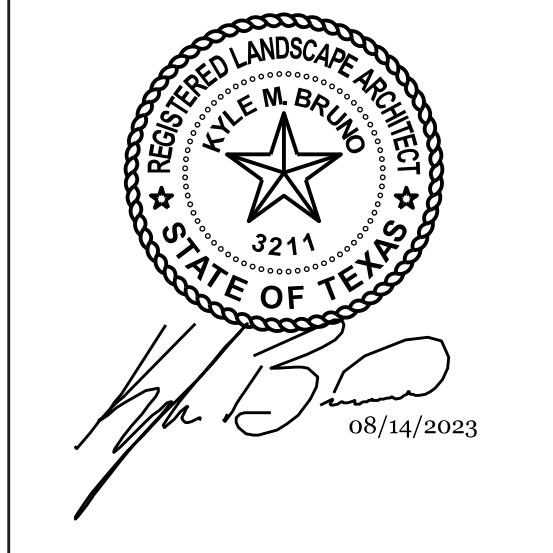
PLANTING LEGEND

SYMBOL / NOTATION	DESCRIPTION
(LO)	EXISTING TREE TO REMAIN
(LO)	EXISTING TREE TO BE REMOVED
VTE	V-TRENCHED EDGE - PER PLAN
SE	STEEL EDGE - PER PLAN
---	LIMIT OF SOD
BO	BOULDER OUTCROPPING - PER PLAN
(B)	PROPOSED TEXAS MOSS ROCK BOULDER (PER PLAN)
(S)	PROPOSED BERMUDA SOLID SOD (PER PLAN)
(H)	PROPOSED BERMUDA HYDRO MULCH (PER PLAN)
(P)	PROPOSED PLANTING BED (PER PLAN)
(G)	GRAVEL - PECOS PLAINS GRAVEL (PER PLAN)

MATCHLINE
 REF: SHEET L109, L109, L409
 REF: SHEET L106, L106, L406



NO.	DATE	REVISION
1	08/14/23	ISSUED FOR PERMIT



LANDSCAPE DEVELOPMENT
 Planting Plan
 Newhaven Residential Development
 Manor, Travis County TX.

TREE SCHEDULE

SYMBOL	QTY.	ABV.	BOTANICAL NAME / COMMON
	22	(LO)	QUERCUS VIRGINIANA / LIVE OAK
	47	(TRO)	QUERCUS TEXANA / TEXAS RED OAK
	15	(MS)	PLATANUS MEXICANA / MEXICAN SYCAMORE
	52	(MZC)	TAXODIUM MUCRONATUM / MONTEZUMA CYPRESS
	41	(PV)	PARKINSONIA TEXANA VAR. MACRUM / PALOVERDE
	31	(BM)	ACER GRANDIDETATUM / BIGTOOTH MAPLE
	21	(SC)	CATALPA BIGNONIODES / SOUTHERN CATALPA
	23	(TP)	LIRIODENDRON TULIPIFERA / TULIP TREE
	38	(JBP)	PINUS THUNBERGIANA / JAPANESE BLACK PINE
	38	(TML)	SOPHORA SCUNDFLORA / TEXAS MOUNTAIN LAUREL
	83	(ERC)	JUNIPERUS VIRGINIANA / EASTERN RED CEDAR
	52	(HM)	PROSOPIA GLANDULOSA / MESQUITE 'HONEY'
	6	(MR)	CERCIS CANADENSIS 'MEXICANA' / MEXICAN REDBUD
	47	(RI)	PARKINSONIA ACULEATA / RETAMA
	18	(MXP)	PRUNUS MEXICANA / MEXICAN PLUM
	73	(WM)	MYRICA CERIFERA / WAX MYRTLE
	14	(GB)	GINKGO BILOBA / GINKGO
	34	(DW)	CHLOPSIS LINEARIS / DESERT WILLOW

REFERENCE SHEET L321 FOR COMPLETE SCHEDULE INFORMATION

PLANTING LEGEND

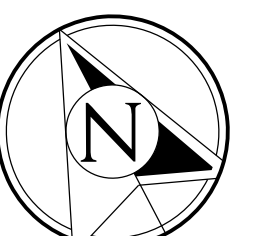
SYMBOL / NOTATION	DESCRIPTION
	EXISTING TREE TO REMAIN
	EXISTING TREE TO BE REMOVED
	V-TRENCHED EDGE - PER PLAN
	STEEL EDGE - PER PLAN
	LIMIT OF SOD
	BOULDER OUTCROPPING - PER PLAN
	PROPOSED TEXAS MOSS ROCK BOULDER (PER PLAN)
	PROPOSED BERMUDA SOLID SOD (PER PLAN)
	PROPOSED BERMUDA HYDRO MULCH (PER PLAN)
	PROPOSED PLANTING BED (PER PLAN)
	GRAVEL - PECOS PLAINS GRAVEL (PER PLAN)



NO.	DATE	REVISION
1	08/14/23	ISSUED FOR PERMIT



Kyle M. Bruno
 08/14/2023



PLAN NORTH

SCALE 1" = 20'-0"



LANDSCAPE DEVELOPMENT

Planting Plan

Newhaven Residential Development

Manor, Travis County TX.

TREE SCHEDULE

SYMBOL	QTY.	ABV.	BOTANICAL NAME / COMMON
	22	(LO)	QUERCUS VIRGINIANA / LIVE OAK
	47	(TRO)	QUERCUS TEXANA / TEXAS RED OAK
	15	(MS)	PLATANUS MEXICANA / MEXICAN SYCAMORE
	52	(MZC)	TAXODIUM MUCRONATUM / MONTEZUMA CYPRESS
	41	(PV)	PARKINSONIA TEXANA VAR. MACRUM / PALOVERDE
	31	(BM)	ACER GRANDIDENTATUM / BIGTOOTH MAPLE
	21	(SC)	CATALPA BIGNONIOIDES / SOUTHERN CATALPA
	23	(TP)	LIRIODENDRON TULIPIFERA / TULIP TREE
	38	(JP)	PINUS THUNBERGIANA / JAPANESE BLACK PINE
	38	(TML)	SOPHORA SCUNDIFLORA / TEXAS MOUNTAIN LAUREL

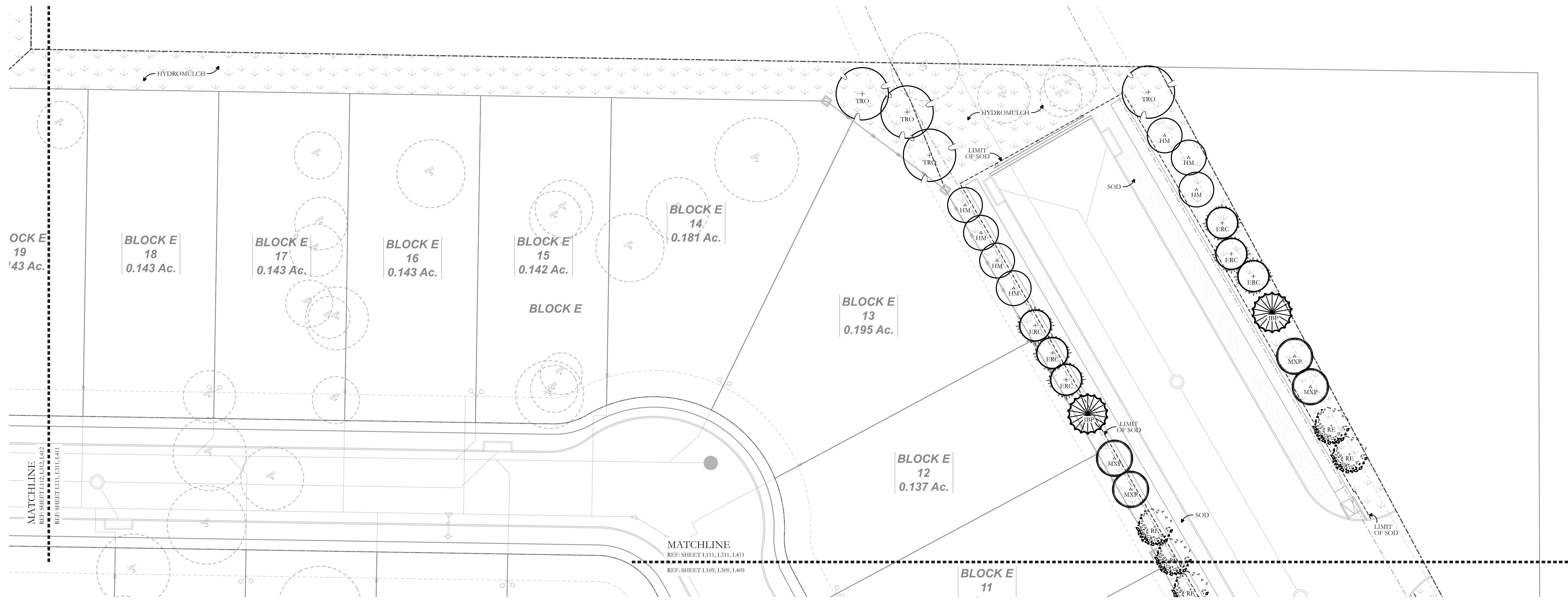
TREE SCHEDULE - CONTINUED

	83	(ERC)	JUNIPERUS VIRGINIANA / EASTERN RED CEDAR
	52	(HM)	PROSOPIA GLANDULOSA / MESQUITE 'HONEY'
	6	(MR)	CERCIS CANADENSIS 'MEXICANA' / MEXICAN REDBUD
	47	(RI)	PARKINSONIA ACULEATA / RETAMA
	18	(MXP)	PRUNUS MEXICANA / MEXICAN PLUM
	73	(WM)	MYRICA CERIFERA / WAX MYRTLE
	14	(GB)	GINKGO BILOBA / GINKGO
	34	(DW)	CHILOPSIS LINEARIS / DESERT WILLOW

REFERENCE SHEET L321 FOR COMPLETE SCHEDULE INFORMATION

PLANTING LEGEND

SYMBOL / NOTATION	DESCRIPTION
	EXISTING TREE TO REMAIN
	EXISTING TREE TO BE REMOVED
	V-TRENCHED EDGE - PER PLAN
	STEEL EDGE - PER PLAN
	LIMIT OF SOD
	BOULDER OUTCROPPING - PER PLAN
	PROPOSED TEXAS MOSS ROCK BOULDER (PER PLAN)
	PROPOSED BERMUDA SOLID SOD (PER PLAN)
	PROPOSED BERMUDA HYDRO MULCH (PER PLAN)
	PROPOSED PLANTING BED (PER PLAN)
	GRAVEL - PECOS PLAINS GRAVEL (PER PLAN)

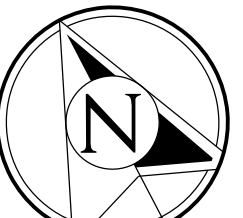


1923 VICTORIA GARDEN DR. RICHMOND, TX 77406
KYLE@BRUNOLANDDESIGN.COM 409.382.0698

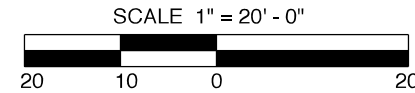
NO.	DATE	REVISION
1	08/14/23	ISSUED FOR PERMIT



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08/14/2023



PLAN NORTH



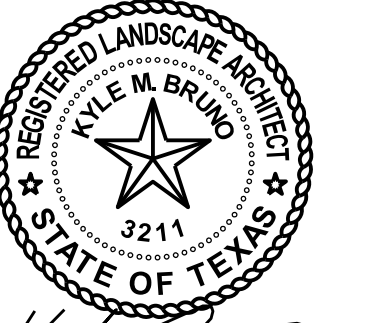
LANDSCAPE DEVELOPMENT

Planting Plan

Newhaven Residential Development

Manor, Travis County TX.

NO.	DATE	REVISION
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Kyle M. Bruno
 08/14/2023



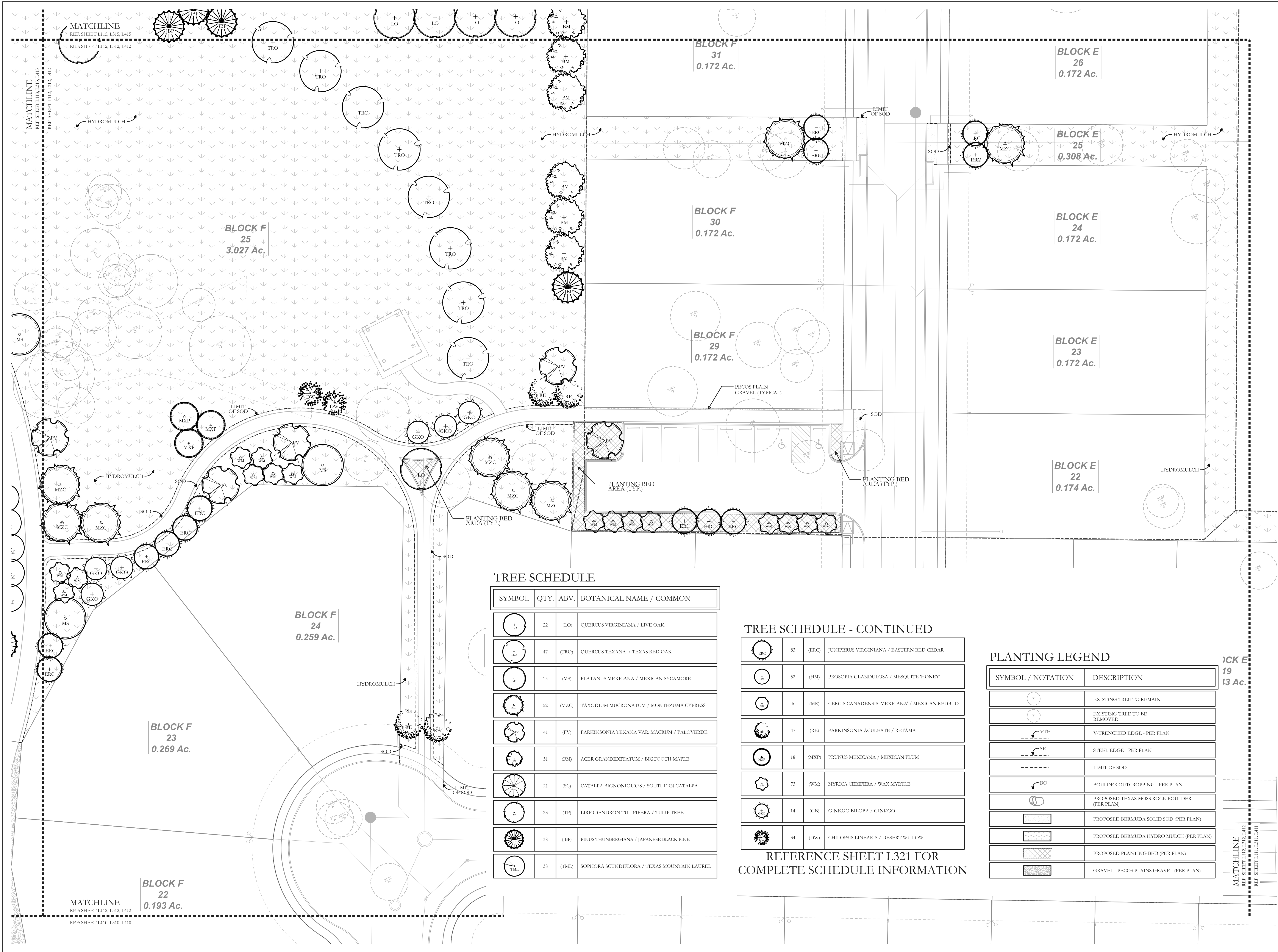
PLAN NORTH
 SCALE 1" = 20'-0"

LANDSCAPE DEVELOPMENT

Planting Plan

Newhaven Residential Development

Manor, Travis County TX.



TREE SCHEDULE

SYMBOL	QTY.	ABV.	BOTANICAL NAME / COMMON
(LO)	22	(LO)	QUERCUS VIRGINIANA / LIVE OAK
(TRO)	47	(TRO)	QUERCUS TEXANA / TEXAS RED OAK
(MS)	15	(MS)	PLATANUS MEXICANA / MEXICAN SYCAMORE
(MZC)	52	(MZC)	TAXODIUM MUCRONATUM / MONTEZUMA CYPRESS
(PV)	41	(PV)	PARKINSONIA TEXANA VAR. MAGRUM / PALOVERDE
(BM)	31	(BM)	ACER GRANDIDETATUM / BIGTOOTH MAPLE
(SC)	21	(SC)	CATALPA BIGNONIODES / SOUTHERN CATALPA
(TP)	23	(TP)	LIRIODENDRON TULIPIFERA / TULIP TREE
(BP)	38	(BP)	PINUS THUNBERGIANA / JAPANESE BLACK PINE
(TM)	38	(TM)	SOPHORA SCUNDIFLORA / TEXAS MOUNTAIN LAUREL

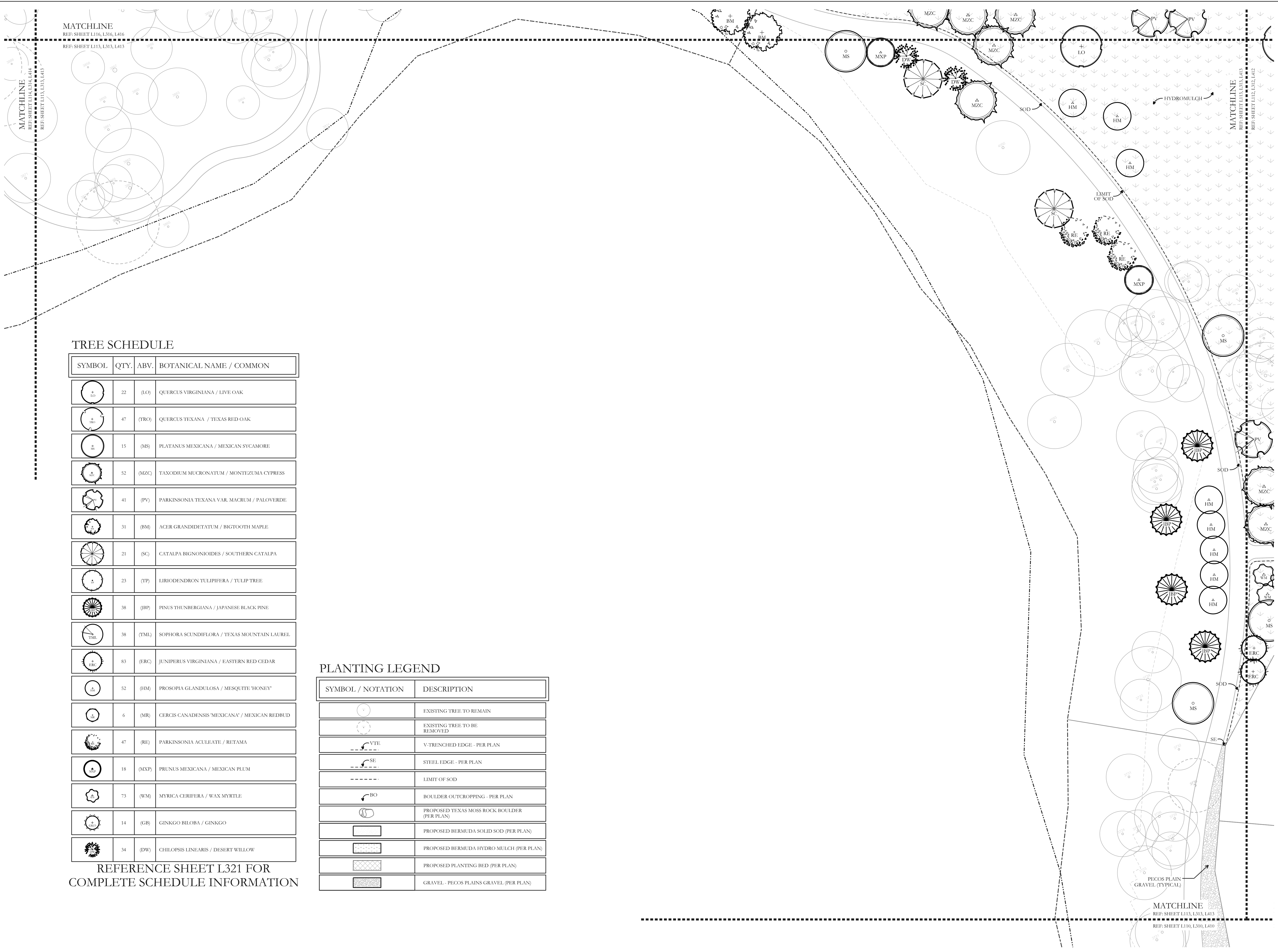
TREE SCHEDULE - CONTINUED

(ERC)	83	(ERC)	JUNIPERUS VIRGINIANA / EASTERN RED CEDAR
(HM)	52	(HM)	PROSOPIA GLANDULOSA / MESQUITE 'HONEY'
(MR)	6	(MR)	CERCIS CANADENSIS 'MEXICANA' / MEXICAN REDBUD
(RE)	47	(RE)	PARKINSONIA ACULEATE / RETAMA
(MXP)	18	(MXP)	PRUNUS MEXICANA / MEXICAN PLUM
(WM)	73	(WM)	MYRICA CERIFERA / WAX MYRTLE
(GB)	14	(GB)	GINKGO BILOBA / GINKGO
(DW)	34	(DW)	CHLOPSIS LINEARIS / DESERT WILLOW

REFERENCE SHEET L321 FOR COMPLETE SCHEDULE INFORMATION

PLANTING LEGEND

SYMBOL / NOTATION	DESCRIPTION
(Circle with dot)	EXISTING TREE TO REMAIN
(Circle with cross)	EXISTING TREE TO BE REMOVED
(V-shaped line)	V-TRENCHED EDGE - PER PLAN
(S-shaped line)	STEEL EDGE - PER PLAN
(Dashed line)	LIMIT OF SOD
(Circle with 'BO')	BOULDER OUTCROPPING - PER PLAN
(Circle with 'MZR')	PROPOSED TEXAS MOSS ROCK BOULDER (PER PLAN)
(Square with 'SOD')	PROPOSED BERMUDA SOLID SOD (PER PLAN)
(Square with 'HM')	PROPOSED BERMUDA HYDRO MULCH (PER PLAN)
(Square with 'PB')	PROPOSED PLANTING BED (PER PLAN)
(Square with 'G')	GRAVEL - PECOS PLAINS GRAVEL (PER PLAN)



MATCHLINE
REF: SHEET L116, L136, L416
REF: SHEET L113, L133, L413

MATCHLINE
REF: SHEET L112, L132, L412
REF: SHEET L114, L134, L414

TREE SCHEDULE

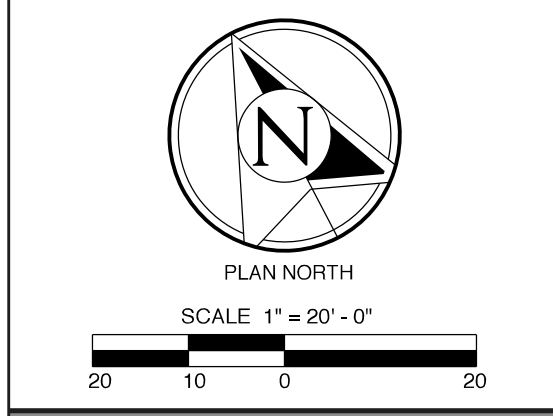
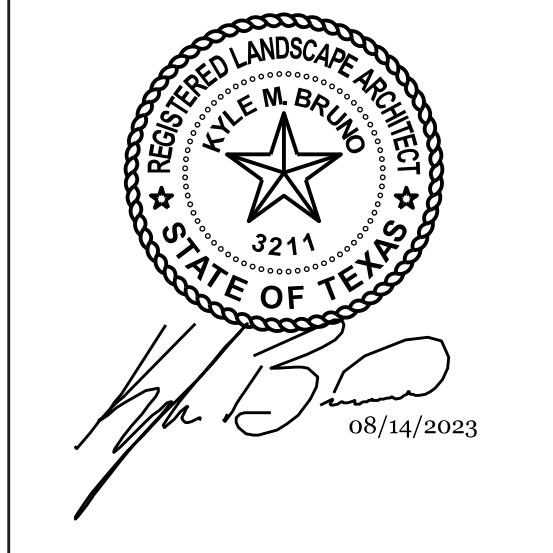
SYMBOL	QTY.	ABV.	BOTANICAL NAME / COMMON
	22	(LO)	QUERCUS VIRGINIANA / LIVE OAK
	47	(TRO)	QUERCUS TEXANA / TEXAS RED OAK
	15	(MS)	PLATANUS MEXICANA / MEXICAN SYCAMORE
	52	(MZC)	TAXODIUM MUCRONATUM / MONTEZUMA CYPRESS
	41	(PV)	PARKINSONIA TEXANA VAR. MACRUM / PALOVERDE
	31	(BM)	ACER GRANDIDETATUM / BIGTOOTH MAPLE
	21	(SC)	CATALPA BIGNONIODES / SOUTHERN CATALPA
	23	(TP)	LIRIODENDRON TULPIFERA / TULIP TREE
	38	(JBP)	PINUS THUNBERGIANA / JAPANESE BLACK PINE
	38	(TML)	SOPHORA SCUNDIFLORA / TEXAS MOUNTAIN LAUREL
	83	(ERC)	JUNIPERUS VIRGINIANA / EASTERN RED CEDAR
	52	(HM)	PROSOPIA GLANDULOSA / MESQUITE 'HONEY'
	6	(MR)	CERCIS CANADENSIS 'MEXICANA' / MEXICAN REDBUD
	47	(RE)	PARKINSONIA ACULEATE / RETAMA
	18	(MXP)	PRUNUS MEXICANA / MEXICAN PLUM
	73	(WM)	MYRICA CERIFERA / WAX MYRTLE
	14	(GB)	GINKGO BILOBA / GINKGO
	34	(DW)	CHILOPSIS LINEARIS / DESERT WILLOW

REFERENCE SHEET L321 FOR COMPLETE SCHEDULE INFORMATION

PLANTING LEGEND

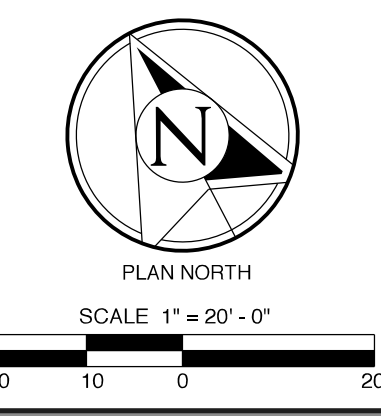
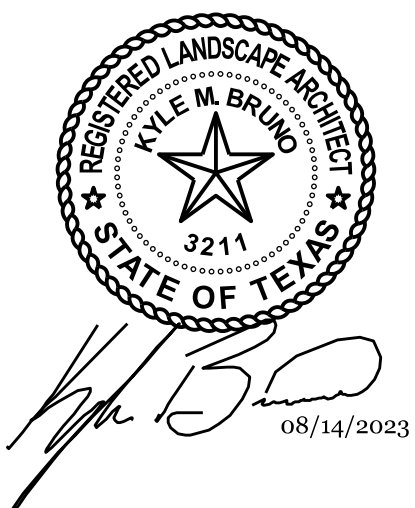
SYMBOL / NOTATION	DESCRIPTION
	EXISTING TREE TO REMAIN
	EXISTING TREE TO BE REMOVED
	V-TRENCHED EDGE - PER PLAN
	STEEL EDGE - PER PLAN
	LIMIT OF SOD
	BOULDER OUTCROPPING - PER PLAN
	PROPOSED TEXAS MOSS ROCK BOULDER (PER PLAN)
	PROPOSED BERMUDA SOLID SOD (PER PLAN)
	PROPOSED BERMUDA HYDRO MULCH (PER PLAN)
	PROPOSED PLANTING BED (PER PLAN)
	GRAVEL - PECOS PLAINS GRAVEL (PER PLAN)

NO.	DATE	REVISION
1	08/14/23	ISSUED FOR PERMIT

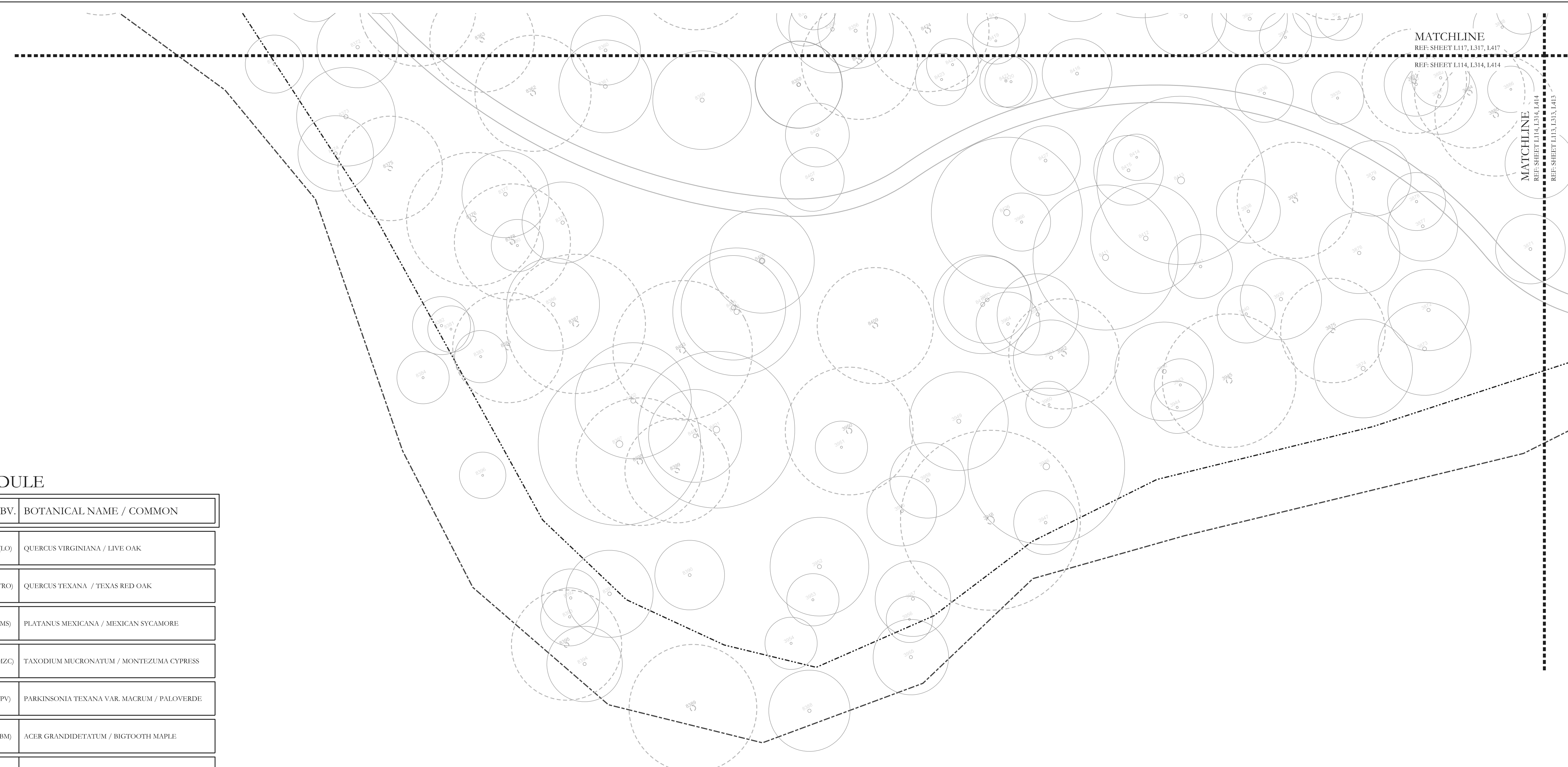


LANDSCAPE DEVELOPMENT
 Planting Plan
 Newhaven Residential Development
 Manor, Travis County TX.

NO.	DATE	REVISION
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LANDSCAPE DEVELOPMENT
 Planting Plan
 Newhaven Residential Development
 Manor, Travis County TX.



MATCHLINE
 REF: SHEET L117, L117, L147
 REF: SHEET L114, L114, L114

MATCHLINE
 REF: SHEET L114, L114, L114
 REF: SHEET L113, L113, L113

TREE SCHEDULE

SYMBOL	QTY.	ABV.	BOTANICAL NAME / COMMON
	22	(LO)	QUERCUS VIRGINIANA / LIVE OAK
	47	(TRO)	QUERCUS TEXANA / TEXAS RED OAK
	15	(MS)	PLATANUS MEXICANA / MEXICAN SYCAMORE
	52	(MZC)	TAXODIUM MUCRONATUM / MONTEZUMA CYPRESS
	41	(PV)	PARKINSONIA TEXANA VAR. MACRUM / PALOVERDE
	31	(BM)	ACER GRANDIDENTATUM / BIGTOOTH MAPLE
	21	(SC)	CATALPA BIGNONIOIDES / SOUTHERN CATALPA
	23	(TP)	LIRIODENDRON TULIPIFERA / TULIP TREE
	38	(BP)	PINUS THUNBERGIANA / JAPANESE BLACK PINE
	38	(TML)	SOPHORA SCUNDIFLORA / TEXAS MOUNTAIN LAUREL
	83	(ERC)	JUNIPERUS VIRGINIANA / EASTERN RED CEDAR
	52	(HM)	PROSOPIA GLANDULOSA / MESQUITE 'HONEY'
	6	(MR)	CERCIS CANADENSIS 'MEXICANA' / MEXICAN REDBUD
	47	(RE)	PARKINSONIA ACULEATE / RETAMA
	18	(MXP)	PRUNUS MEXICANA / MEXICAN PLUM
	73	(WM)	MYRICA CERIFERA / WAX MYRTLE
	14	(GB)	GINKGO BILOBA / GINKGO
	34	(DW)	CHILOPSIS LINEARIS / DESERT WILLOW

REFERENCE SHEET L321 FOR
 COMPLETE SCHEDULE INFORMATION

PLANTING LEGEND

SYMBOL / NOTATION	DESCRIPTION
	EXISTING TREE TO REMAIN
	EXISTING TREE TO BE REMOVED
	V-TRENCHED EDGE - PER PLAN
	STEEL EDGE - PER PLAN
	LIMIT OF SOD
	BOULDER OUTCROPPING - PER PLAN
	PROPOSED TEXAS MOSS ROCK BOULDER (PER PLAN)
	PROPOSED BERMUDA SOLID SOD (PER PLAN)
	PROPOSED BERMUDA HYDRO MULCH (PER PLAN)
	PROPOSED PLANTING BED (PER PLAN)
	GRAVEL - PECOS PLAINS GRAVEL (PER PLAN)

MATCHLINE
REF: SHEET L118, L318, L418
REF: SHEET L115, L315, L415

TREE SCHEDULE

SYMBOL	QTY.	ABV.	BOTANICAL NAME / COMMON
	22	(LO)	QUERCUS VIRGINIANA / LIVE OAK
	47	(TRO)	QUERCUS TEXANA / TEXAS RED OAK
	15	(MS)	PLATANUS MEXICANA / MEXICAN SYCAMORE
	52	(MZC)	TAXODIUM MUCRONATUM / MONTEZUMA CYPRESS
	41	(PV)	PARKINSONIA TEXANA VAR. MACRUM / PALOVERDE
	31	(BM)	ACER GRANDIDETATUM / BIGTOOTH MAPLE
	21	(SC)	CATALPA BIGNONIODES / SOUTHERN CATALPA
	23	(TP)	LIRIODENDRON TULPIFERA / TULIP TREE
	38	(JBP)	PINUS THUNBERGIANA / JAPANESE BLACK PINE
	38	(TML)	SOPHORA SCUNDFLORA / TEXAS MOUNTAIN LAUREL
	83	(ERC)	JUNIPERUS VIRGINIANA / EASTERN RED CEDAR
	52	(HM)	PROSOPIA GLANDULOSA / MESQUITE "HONEY"
	6	(MR)	CERCIS CANADENSIS "MEXICANA" / MEXICAN REDBUD
	47	(RE)	PARKINSONIA ACULEATE / RETAMA
	18	(MXP)	PRUNUS MEXICANA / MEXICAN PLUM
	73	(WM)	MYRICA CERIFERA / WAX MYRTLE
	14	(GB)	GINKGO BILOBA / GINKGO
	34	(DW)	CHLOPSIS LINEARIS / DESERT WILLOW

REFERENCE SHEET L321 FOR COMPLETE SCHEDULE INFORMATION

PLANTING LEGEND

SYMBOL / NOTATION	DESCRIPTION
	EXISTING TREE TO REMAIN
	EXISTING TREE TO BE REMOVED
	V-TRENCHED EDGE - PER PLAN
	STEEL EDGE - PER PLAN
	LIMIT OF SOD
	BOULDER OUTCROPPING - PER PLAN
	PROPOSED TEXAS MOSS ROCK BOULDER (PER PLAN)
	PROPOSED BERMUDA SOLID SOD (PER PLAN)
	PROPOSED BERMUDA HYDRO MULCH (PER PLAN)
	PROPOSED PLANTING BED (PER PLAN)
	GRAVEL - PECOS PLAINS GRAVEL (PER PLAN)

MATCHLINE
REF: SHEET L118, L318, L418
REF: SHEET L115, L315, L415

BLOCK G
5
0.172 Ac.

BLOCK F
38
79 Ac.

BLOCK F
37
0.179 Ac.

BLOCK F
36
0.179 Ac.

BLOCK F
35
0.179 Ac.

BLOCK F
34
0.179 Ac.

BLOCK F
33
0.179 Ac.

BLOCK F
32
0.207 Ac.

BLOCK G
2
0.172 Ac.

BLOCK G
1
0.186 Ac.

BLOCK F

BLOCK G
21
0.190 Ac.

BLOCK G
20
0.165 Ac.

BLOCK G
19
0.146 Ac.

BLOCK G
18
0.181 Ac.

BLOCK H
4
0.143 Ac.

BLOCK H
3
0.143 Ac.

BLOCK H
2
0.143 Ac.

BLOCK E
28
0.172 Ac.

BLOCK E
27
0.172 Ac.

BLOCK E
26

0.145 Ac.

HYDROMULCH

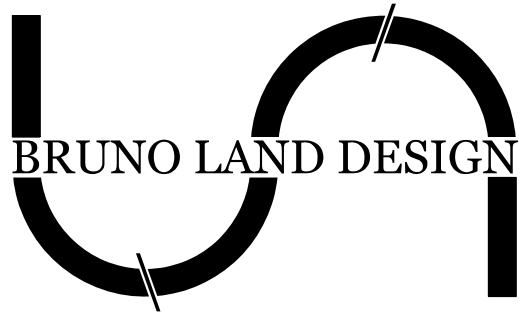
LIMIT OF SOD

SOD

SOD

HYDROMULCH

MATCHLINE
REF: SHEET L115, L315, L415
REF: SHEET L112, L312, L412

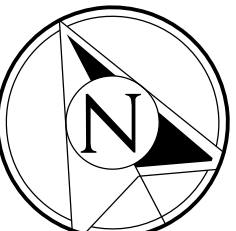


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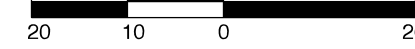


Kyle M. Bruno
08/14/2023



PLAN NORTH

SCALE 1" = 20'-0"



LANDSCAPE DEVELOPMENT

Planting Plan

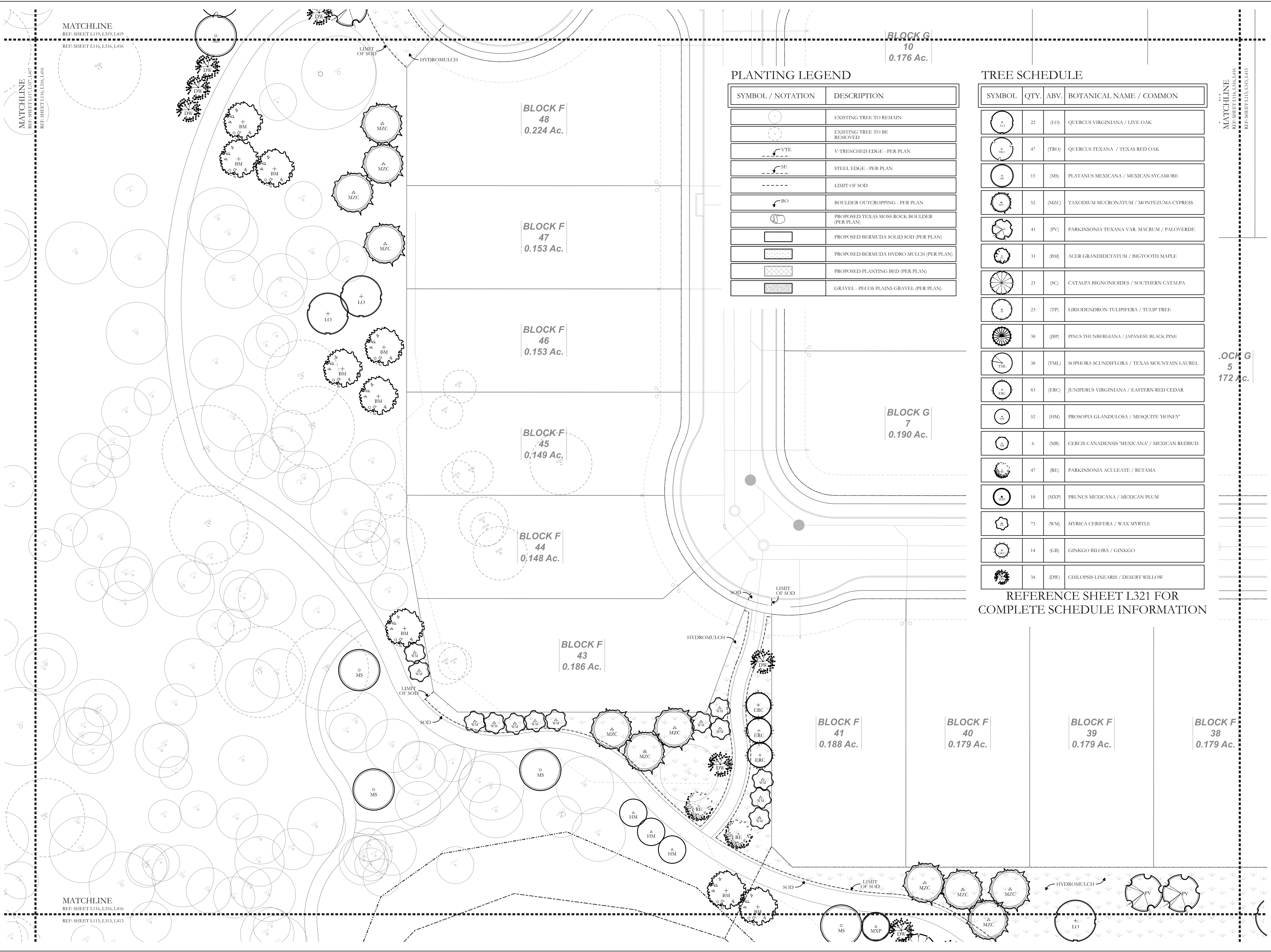
Newhaven Residential Development

Manor, Travis County TX.

MATCHLINE
REF: SHEET L119, L139, L419
REF: SHEET L116, L316, L416

MATCHLINE
REF: SHEET L117, L147
REF: SHEET L116, L316, L416

MATCHLINE
REF: SHEET L116, L316, L416
REF: SHEET L113, L313, L413



PLANTING LEGEND

SYMBOL / NOTATION	DESCRIPTION
(Symbol: Circle with dot)	EXISTING TREE TO REMAIN
(Symbol: Circle with dashed line)	EXISTING TREE TO BE REMOVED
(Symbol: V-shaped line)	V-TRENCHED EDGE - PER PLAN
(Symbol: Serrated line)	STEEL EDGE - PER PLAN
(Symbol: Dashed line)	LIMIT OF SOD
(Symbol: Circle with 'BO')	BOULDER OUTCROPPING - PER PLAN
(Symbol: Circle with 'RU')	PROPOSED TEXAS MOSS ROCK BOULDER (PER PLAN)
(Symbol: Solid rectangle)	PROPOSED BERMUDA SOLID SOD (PER PLAN)
(Symbol: Dotted rectangle)	PROPOSED BERMUDA HYDRO MULCH (PER PLAN)
(Symbol: Cross-hatched rectangle)	PROPOSED PLANTING BED (PER PLAN)
(Symbol: Stippled rectangle)	GRAVEL - PECOS PLAINS GRAVEL (PER PLAN)

TREE SCHEDULE

SYMBOL	QTY.	ABV.	BOTANICAL NAME / COMMON
(LO)	22	(LO)	QUERCUS VIRGINIANA / LIVE OAK
(TR)	47	(TR)	QUERCUS TEXANA / TEXAS RED OAK
(MS)	15	(MS)	PLATANUS MEXICANA / MEXICAN SYCAMORE
(MZC)	52	(MZC)	TAXODIUM MUCRONATUM / MONTEZUMA CYPRESS
(PV)	41	(PV)	PARKINSONIA TEXANA VAR. MACRUM / PALOVERDE
(BM)	31	(BM)	ACER GRANDIDETATUM / BIGTOOTH MAPLE
(SC)	21	(SC)	CATALPA BIGNONIODES / SOUTHERN CATALPA
(TP)	23	(TP)	LIRIODENDRON TULIPIFERA / TULIP TREE
(BP)	38	(BP)	PINUS THUNBERGIANA / JAPANESE BLACK PINE
(TML)	38	(TML)	SOPHORA SCUNDFLORA / TEXAS MOUNTAIN LAUREL
(ERC)	83	(ERC)	JUNIPERUS VIRGINIANA / EASTERN RED CEDAR
(HM)	52	(HM)	PROSOPIA GLANDULOSA / MESQUITE 'HONEY'
(MR)	6	(MR)	CERCIS CANADENSIS 'MEXICANA' / MEXICAN REDBUD
(RE)	47	(RE)	PARKINSONIA ACULEATE / RETAMA
(MXP)	18	(MXP)	PRUNUS MEXICANA / MEXICAN PLUM
(WM)	73	(WM)	MYRICA CERIFERA / WAX MYRTLE
(GB)	14	(GB)	GINKGO BILOBA / GINKGO
(DW)	34	(DW)	CHILOPSIS LINEARIS / DESERT WILLOW

REFERENCE SHEET L321 FOR COMPLETE SCHEDULE INFORMATION

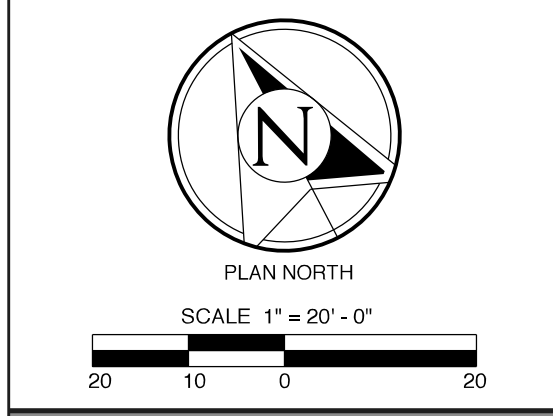
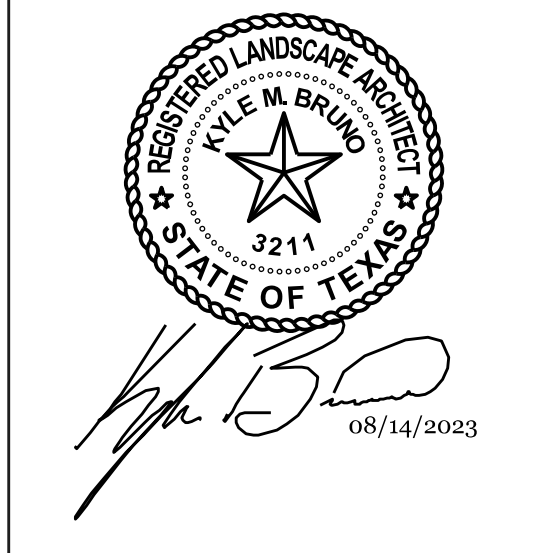
MATCHLINE
REF: SHEET L116, L316, L416
REF: SHEET L113, L313, L413

BLOCK G
5
172 Ac.



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LANDSCAPE DEVELOPMENT
Planting Plan
Newhaven Residential Development
Manor, Travis County TX.

MATCHLINE
 REF: SHEET L120, L130, L420
 REF: SHEET L117, L317, L417

MATCHLINE
 REF: SHEET L117, L317, L417
 REF: SHEET L116, L316, L416

PLANTING LEGEND

SYMBOL / NOTATION	DESCRIPTION
	EXISTING TREE TO REMAIN
	EXISTING TREE TO BE REMOVED
	V-TRENCHED EDGE - PER PLAN
	STEEL EDGE - PER PLAN
	LIMIT OF SOD
	BOULDER OUTCROPPING - PER PLAN
	PROPOSED TEXAS MOSS ROCK BOULDER (PER PLAN)
	PROPOSED BERMUDA SOLID SOD (PER PLAN)
	PROPOSED BERMUDA HYDRO MULCH (PER PLAN)
	PROPOSED PLANTING BED (PER PLAN)
	GRAVEL - PECOS PLAINS GRAVEL (PER PLAN)

TREE SCHEDULE

SYMBOL	QTY.	ABV.	BOTANICAL NAME / COMMON
	22	(LO)	QUERCUS VIRGINIANA / LIVE OAK
	47	(TRO)	QUERCUS TEXANA / TEXAS RED OAK
	15	(MS)	PLATANUS MEXICANA / MEXICAN SYCAMORE
	52	(MZC)	TAXODIUM MUCRONATUM / MONTEZUMA CYPRESS
	41	(PV)	PARKINSONIA TEXANA VAR. MACRUM / PALOVERDE
	31	(BM)	ACER GRANDIDETATUM / BIGTOOTH MAPLE
	21	(SC)	CATALPA BIGNONIODES / SOUTHERN CATALPA
	23	(TP)	LIRIODENDRON TULPIFERA / TULIP TREE
	38	(JP)	PINUS THUNBERGIANA / JAPANESE BLACK PINE
	38	(TML)	SOPHORA SCUNDFLORA / TEXAS MOUNTAIN LAUREL
	83	(ERC)	JUNIPERUS VIRGINIANA / EASTERN RED CEDAR
	52	(HM)	PROSOPIA GLANDULOSA / MESQUITE 'HONEY'
	6	(MR)	CERCIS CANADENSIS 'MEXICANA' / MEXICAN REDBUD
	47	(RE)	PARKINSONIA ACULEATE / RETAMA
	18	(MXP)	PRUNUS MEXICANA / MEXICAN PLUM
	73	(WM)	MYRICA CERIFERA / WAX MYRTLE
	14	(GB)	GINKGO BILOBA / GINKGO
	34	(DW)	CHILOPSIS LINEARIS / DESERT WILLOW

REFERENCE SHEET L321 FOR COMPLETE SCHEDULE INFORMATION

MATCHLINE
 REF: SHEET L117, L317, L417
 REF: SHEET L114, L314, L414

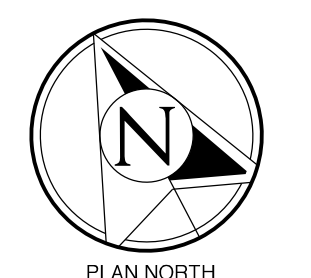


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SCALE 1" = 20'-0"
 20 10 0 20

LANDSCAPE DEVELOPMENT

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Newhaven Residential Development

Manor, Travis County TX.

TREE SCHEDULE

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	38	(JP)	PINUS THUNBERGIANA / JAPANESE BLACK PINE
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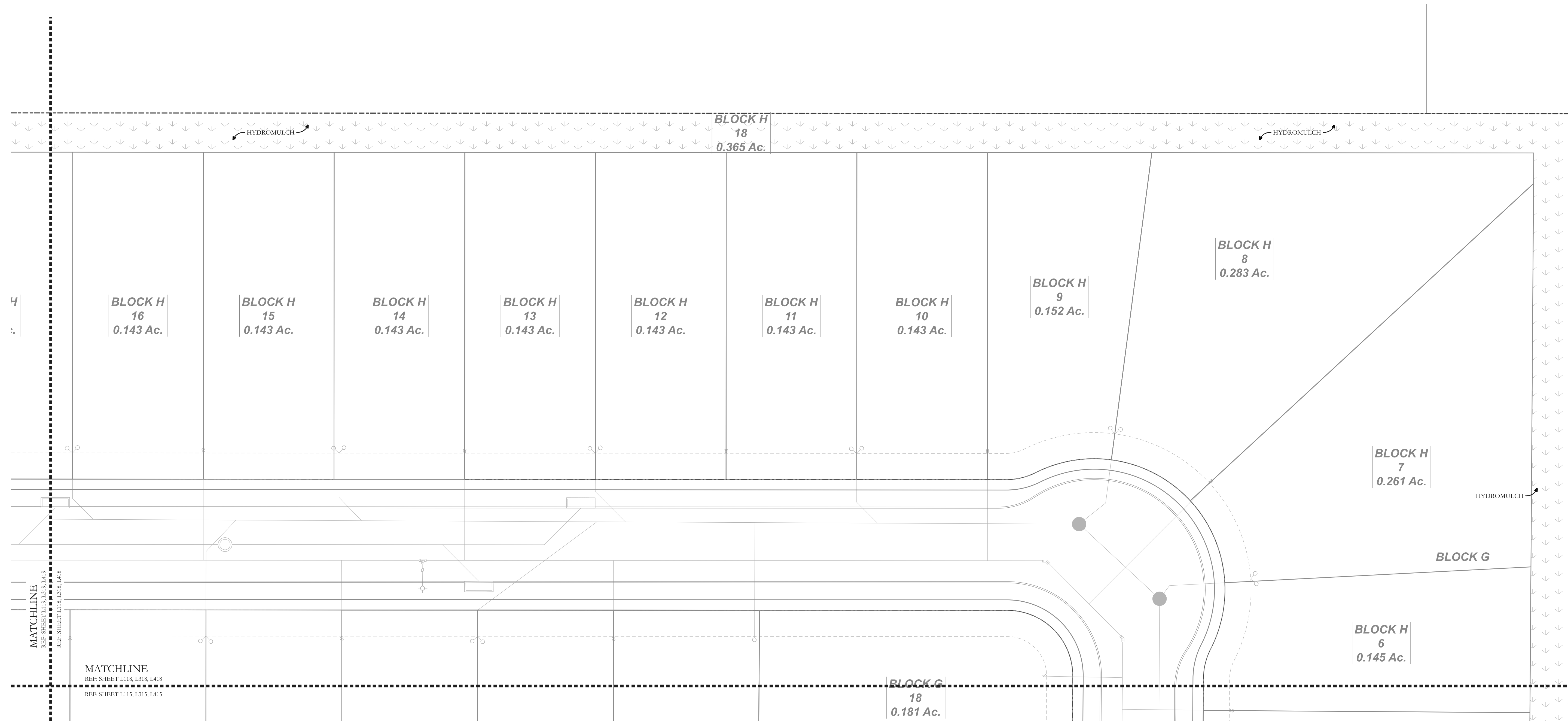
TREE SCHEDULE - CONTINUED

	83	(ERC)	JUNIPERUS VIRGINIANA / EASTERN RED CEDAR
	52	(HM)	PROSOPIA GLANDULOSA / MESQUITE 'HONEY'
	6	(MR)	CERCIS CANADENSIS 'MEXICANA' / MEXICAN REDBUD
	47	(RI)	PARKINSONIA ACULEATA / RIETAMA
	18	(MXP)	PRUNUS MEXICANA / MEXICAN PLUM
	73	(WM)	MYRICA CERIFERA / WAX MYRTLE
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PLANTING LEGEND

SYMBOL / NOTATION	DESCRIPTION
	EXISTING TREE TO REMAIN
	EXISTING TREE TO BE REMOVED
	V-TRENCHED EDGE - PER PLAN
	STEEL EDGE - PER PLAN
	LIMIT OF SOD
	BOULDER OUTCROPPING - PER PLAN
	PROPOSED TEXAS MOSS ROCK BOULDER (PER PLAN)
	PROPOSED BERMUDA SOLID SOD (PER PLAN)
	PROPOSED BERMUDA HYDRO MULCH (PER PLAN)
	PROPOSED PLANTING BED (PER PLAN)
	GRAVEL - PECOS PLAINS GRAVEL (PER PLAN)

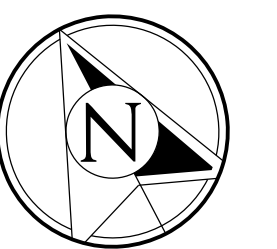


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PLAN NORTH
 SCALE 1" = 20'-0"

LANDSCAPE DEVELOPMENT

Planting Plan

Newhaven Residential Development

Manor, Travis County TX.

TREE SCHEDULE

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	23	(TP)	LIRIODENDRON TULIPIFERA / TULIP TREE
	38	(BP)	PINUS THUNBERGIANA / JAPANESE BLACK PINE
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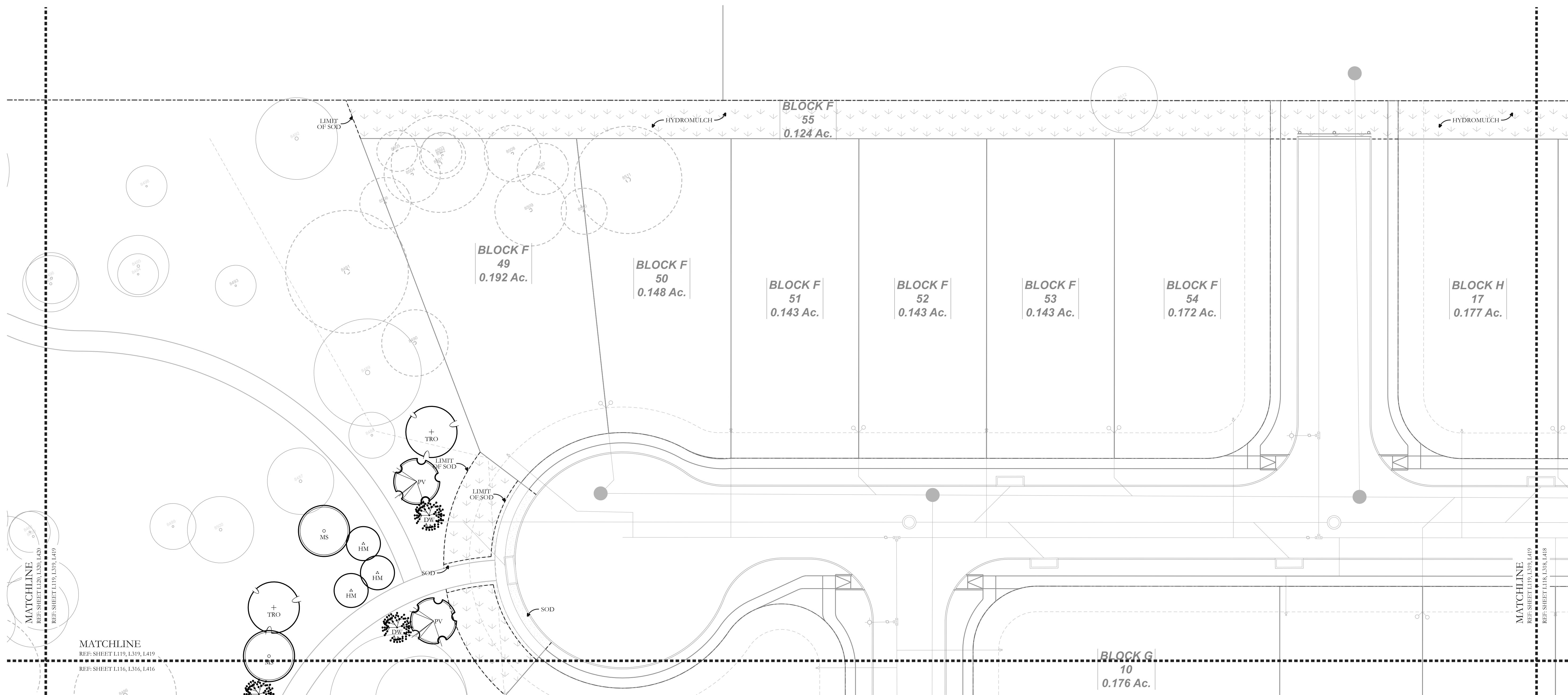
TREE SCHEDULE - CONTINUED

	83	(ERC)	JUNIPERUS VIRGINIANA / EASTERN RED CEDAR
	52	(HM)	PROSOPIA GLANDULOSA / MESQUITE 'HONEY'
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REFERENCE SHEET L321 FOR COMPLETE SCHEDULE INFORMATION

PLANTING LEGEND

SYMBOL / NOTATION	DESCRIPTION
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	EXISTING TREE TO BE REMOVED
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	STEEL EDGE - PER PLAN
	LIMIT OF SOD
	BOULDER OUTCROPPING - PER PLAN
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	PROPOSED BERMUDA SOLID SOD (PER PLAN)
	PROPOSED BERMUDA HYDRO MULCH (PER PLAN)
	PROPOSED PLANTING BED (PER PLAN)
	GRAVEL - PECOS PLAINS GRAVEL (PER PLAN)

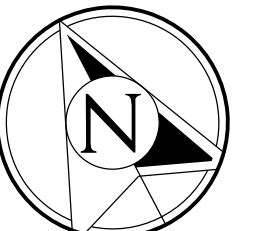


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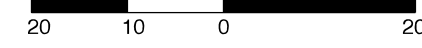


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PLAN NORTH

SCALE 1" = 20'-0"



LANDSCAPE DEVELOPMENT

Planting Plan

Newhaven Residential Development

Manor, Travis County TX.

TREE SCHEDULE

SYMBOL	QTY.	ABV.	BOTANICAL NAME / COMMON
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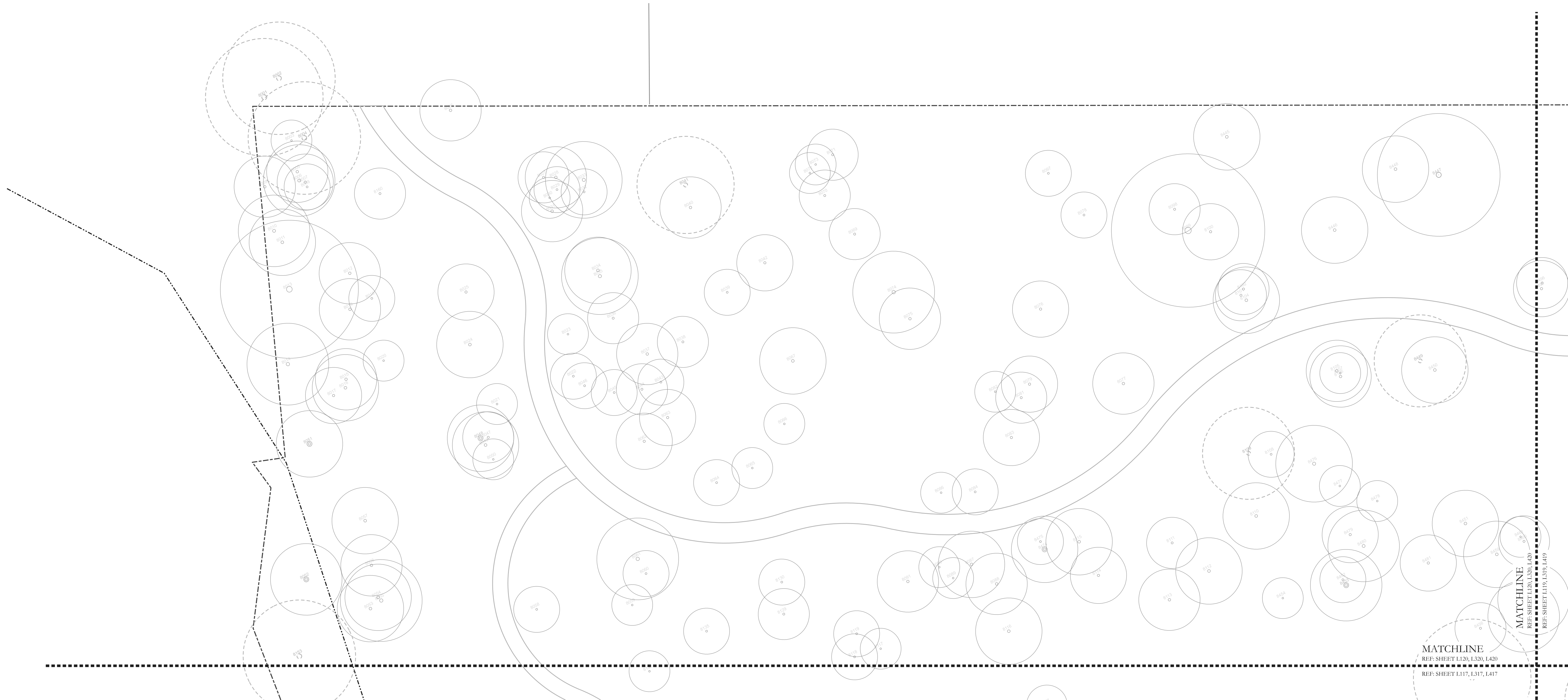
TREE SCHEDULE - CONTINUED

	83	(ERC)	JUNIPERUS VIRGINIANA / EASTERN RED CEDAR
	52	(HM)	PROSOPIA GLANDULOSA / MESQUITE 'HONEY'
	6	(MR)	CERCIS CANADENSIS 'MEXICANA' / MEXICAN REDBUD
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REFERENCE SHEET L321 FOR COMPLETE SCHEDULE INFORMATION

PLANTING LEGEND

SYMBOL / NOTATION	DESCRIPTION
	EXISTING TREE TO REMAIN
	EXISTING TREE TO BE REMOVED
	V-TRENCHED EDGE - PER PLAN
	STEEL EDGE - PER PLAN
	LIMIT OF SOD
	BOULDER OUTCROPPING - PER PLAN
	PROPOSED TEXAS MOSS ROCK BOULDER (PER PLAN)
	PROPOSED BERMUDA SOLID SOD (PER PLAN)
	PROPOSED BERMUDA HYDRO MULCH (PER PLAN)
	PROPOSED PLANTING BED (PER PLAN)
	GRAVEL - PECOS PLAINS GRAVEL (PER PLAN)



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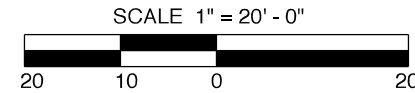
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PLAN NORTH



LANDSCAPE DEVELOPMENT

Planting Plan

Newhaven Residential Development

Manor, Travis County TX.

MATCHLINE
 REF: SHEET L120, L139, L420
 REF: SHEET L117, L137, L417

GENERAL LANDSCAPE NOTES

GENERAL NOTES & SPECIFICATIONS:

- NOTES PROVIDED HEREIN ARE FOR GENERAL REFERENCE IN CONJUNCTION WITH, AND AS A SUPPLEMENT TO THE DETAILS, ADDENDA AND CHANGE ORDERS ASSOCIATED WITH THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL BECOME FAMILIAR WITH THE LOCATION OF ALL EXISTING AND FUTURE UNDERGROUND SERVICES AND IMPROVEMENTS WHICH MAY CONFLICT WITH WORK TO BE DONE.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION.
- THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL MATERIALS, LABOR, AND EQUIPMENT TO COMPLETE ALL LANDSCAPING WORK IN STRICT ACCORDANCE WITH THE PLANTING PLAN, PLANT LIST, AND ALL ITEMS DESCRIBED IN THESE SPECIFICATIONS UNLESS OTHERWISE NOTED. THIS INCLUDES BUT IS NOT LIMITED TO FERTILIZER, MULCH, STAKES, TIES, GUY WIRES, CABLES, AND ALL OTHER NECESSARY EQUIPMENT TO COMPLETE THIS WORK. IF THE PLANTING PLAN DOES NOT AGREE WITH THE PLANT LIST THE QUANTITIES INDICATED GRAPHICALLY ON THE PLANTING PLANS SHALL GOVERN.
- IF THE PLANTING SCHEDULE DOES NOT AGREE WITH THE PLANT IDENTIFICATION TAG ON THE PLAN THE CONTRACTOR IS TO CALL THE LANDSCAPE ARCHITECT TO VERIFY PLANT IDENTIFICATION.
- ALL SUBSTITUTIONS OR ALTERATIONS TO THE LANDSCAPE AND IRRIGATION PLANS OR SPECIFICATIONS MUST BE SUBMITTED, IN WRITING, TO THE LANDSCAPE ARCHITECT FOR APPROVAL.

LANDSCAPE STANDARDS:

- CONTRACTOR SHALL LAY OUT PLANT MATERIAL PER PLAN AND FACE TO GIVE BEST APPEARANCE OR RELATION TO ADJACENT PLANTS, STRUCTURES OR VIEWS.
- THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z601-2014) SPECIFICATIONS SHALL GOVERN PLANT QUALIFICATIONS, GRADES, AND STANDARDS.
- PLANT MATERIAL SHALL NOT BE INSTALLED IN AREA WHICH WILL CAUSE HARM TO ADJACENT STRUCTURES, SUCH AS OVERHEAD POWER, BUILDINGS, PAVEMENTS AND UNDERGROUND UTILITY APPURTENANCES. NOTIFY THE GENERAL CONTRACTOR SHOULD CONFLICTS ARISE.
- ALL SUBSTITUTIONS OF PLANT MATERIALS SHALL BE SUBMITTED TO LANDSCAPE ARCHITECT IN WRITTEN FORM FOR APPROVAL PRIOR TO INSTALLATION.
- ALL NEWLY PLANTED MATERIAL SHALL BE THOROUGHLY SOAKED WITH WATER WITHIN 3 HOURS OF PLANTING.
- CONTRACTOR SHALL IMPORT COMPOSTED SOIL, LIVING EARTH TECHNOLOGY, OR APPROVED EQUAL, FREE OF WEEDS, RHIZOMES, ROCKS, STICKS, AND OTHER DELETERIOUS MATERIAL. CONTRACTOR SHALL BRING TO FINISH GRADE WITH 3" OF TOPSOIL IN ALL PLANTING BEDS AND TILL TO A DEPTH OF 8". FINE GRADING SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO PLANTING OPERATIONS.
- CONTRACTOR SHALL LOOSEN COMPACTED SUBSOILS BY TILLING AND IMPORTING NEW TOPSOIL AS REQUIRED TO RESTORE GRADES AND MAINTAIN POSITIVE DRAINAGE AWAY FROM STRUCTURES.
- INSTALL 3" DEPTH HARD WOOD MULCH IN ALL PLANTER BEDS AND SPREAD EVENLY.
- ALL EXISTING PLANT BEDS SHALL HAVE EXISTING MULCH REMOVED AND TOP-DRESSED WITH 3 INCHES OF HARDWOOD MULCH.
- A 3" LAYER OF MULCH SHALL BE PROVIDED AROUND THE BASE OF THE PLANTED TREE. THE MULCH SHALL BE PULLED BACK 4" FROM THE TRUNK OF THE TREE.
- TREE PLANTING SHALL COMPLY WITH DETAILS HEREIN AND THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) STANDARDS.
- TREE PITS SHALL BE TESTED FOR WATER PERCOLATION. IF WATER DOES NOT DRAIN OUT OF TREE PIT WITHIN 24 HOURS, THE TREE SHALL BE MOVED OR DRAINAGE SHALL BE PROVIDED.
- NATIVE SITE TOPSOIL IS TO BE PROTECTED FROM EROSION OR STOCKPILED. NATIVE SITE TOPSOIL SHALL BE LABORATORY TESTED BY AND ACCREDITED LABORATORY AND AMENDED PER SAID LABORATORY'S RECOMMENDATIONS.

MAINTENANCE STANDARDS:

- THE OWNER SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT, MAINTENANCE, AND VIGOR OF PLANT MATERIAL IN ACCORDANCE WITH THE DESIGN INTENT AND AS APPROPRIATE FOR THE SEASON OF THE YEAR.
- LANDSCAPE AND OPEN AREAS SHALL BE FREE OF TRASH, LITTER AND WEEDS.
- NO PLANT MATERIAL SHALL BE ALLOWED TO ENCROACH ON R.O.W., SIDEWALKS OR EASEMENTS TO THE EXTENT THAT VISION OR ROUTE OF TRAVEL FOR VEHICULAR, PEDESTRIAN, OR BICYCLE TRAFFIC IS IMPEDED.
- TREE MAINTENANCE SHALL BE IN ACCORDANCE WITH THE STANDARDS OF THE INTERNATIONAL SOCIETY OF ARBORICULTURE.
- TREE STAKING MATERIALS, IF USED, SHALL BE REMOVED AFTER (1) GROWING SEASON, NO MORE THAN (1) YEAR AFTER INSTALLATION.

PLANTING LEGEND

SYMBOL / NOTATION	DESCRIPTION
	EXISTING TREE TO REMAIN
	EXISTING TREE TO BE REMOVED
	V-TRENCHED EDGE - PER PLAN
	STEEL EDGE - PER PLAN
	LIMIT OF SOD
	BOULDER OUTCROPPING - PER PLAN
	PROPOSED TEXAS MOSS ROCK BOULDER (PER PLAN)
	PROPOSED BERMUDA SOLID SOD (PER PLAN)
	PROPOSED BERMUDA HYDRO MULCH (PER PLAN)
	PROPOSED PLANTING BED (PER PLAN)
	GRAVEL - PECOS PLAINS GRAVEL (PER PLAN)

TREE SCHEDULE - CANOPY

SYMBOL	QTY.	ABV.	BOTANICAL NAME / COMMON	CALIPER	HEIGHT	WIDTH	SIZE	NOTES
	22	(LO)	QUERCUS VIRGINIANA / LIVE OAK	3" - 3 1/2"	12' - 14'	6' - 7'	65 GAL.	MATCHED, WELL ROOTED
	47	(TRO)	QUERCUS TEXANA / TEXAS RED OAK	2" - 2 1/2"	9' - 10'	4' - 5'	30 GAL.	MATCHED, WELL ROOTED
	15	(MS)	PLATANUS MEXICANA / MEXICAN SYCAMORE	2" - 2 1/2"	10' - 12'	3' - 4'	30 GAL.	MATCHED, WELL ROOTED
	52	(MZC)	TAXODIUM MUCRONATUM / MONTEZUMA CYPRESS	3"	11' - 13'	5' - 6'	45 GAL.	MATCHED, WELL ROOTED
	41	(PV)	PARKINSONIA TEXANA VAR. MACRUM / PALOVERDE	2"	9'	5' - 6'	45 GAL.	MATCHED, WELL ROOTED
	31	(BM)	ACER GRANDIDETATUM / BIGTOOTH MAPLE	2" - 2 1/2"	9' - 10'	4' - 5'	45 GAL.	MATCHED, WELL ROOTED
	21	(SC)	CATALPA BIGNONIODES / SOUTHERN CATALPA	3"	11' - 13'	5' - 6'	45 GAL.	MATCHED, WELL ROOTED
	23	(TP)	LIRIODENDRON TULIPIFERA / TULIP POPLAR	3"	11' - 13'	5' - 6'	45 GAL.	MATCHED, WELL ROOTED
	38	(JP)	PINUS THUNBERGIANA / JAPANESE BLACK PINE	2" - 2 1/2"	7' - 8'	4' - 5'	30 GAL.	MATCHED, WELL ROOTED

TREE SCHEDULE - ORNAMENTAL

SYMBOL	QTY.	ABV.	BOTANICAL NAME / COMMON	CALIPER	HEIGHT	WIDTH	SIZE	NOTES
	38	(TML)	SOPHORA SCUNDFLORA / TEXAS MOUNTAIN LAUREL	2"	5' - 6'	4'	45 GAL.	MATCHED, WELL ROOTED
	83	(ERC)	JUNIPERUS VIRGINIANA / EASTERN RED CEDAR	2" - 2 1/2"	8' - 10'	5' - 6'	45 GAL.	MATCHED, WELL ROOTED
	52	(HM)	PROSOPIA GLANDULOSA / MESQUITE 'HONEY'	2"	8'	5' - 6'	45 GAL.	MATCHED, WELL ROOTED
	6	(MR)	CERCIS CANADENSIS 'MEXICANA' / MEXICAN REDBUD	2 1/2"	8' - 10'	4' - 5'	45 GAL.	MATCHED, WELL ROOTED
	47	(RE)	PARKINSONIA ACULEATE / RETAMA	2"	8' - 9'	5' - 6'	45 GAL.	MATCHED, WELL ROOTED
	18	(MXP)	PRUNUS MEXICANA / MEXICAN PLUM	1 1/2" - 2"	8' - 9'	3' - 4'	30 GAL.	MATCHED, WELL ROOTED
	73	(WM)	MYRICA CERIFERA / WAX MYRTLE	1 1/4" EA. CANE	7' - 8'	5' - 6'	30 GAL.	MATCHED, WELL ROOTED, MULTI
	14	(GB)	GINKGO BILOBA / GINKGO	1 1/2" - 2"	8' - 9'	3' - 4'	30 GAL.	MATCHED, WELL ROOTED
	34	(DW)	CHILOPSIS LINEARIS / DESERT WILLOW	1 1/2" - 2"	8' - 9'	3' - 4'	30 GAL.	MATCHED, WELL ROOTED



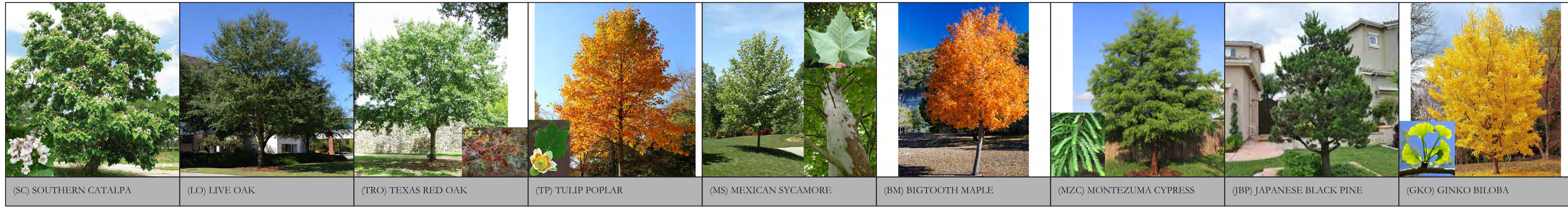
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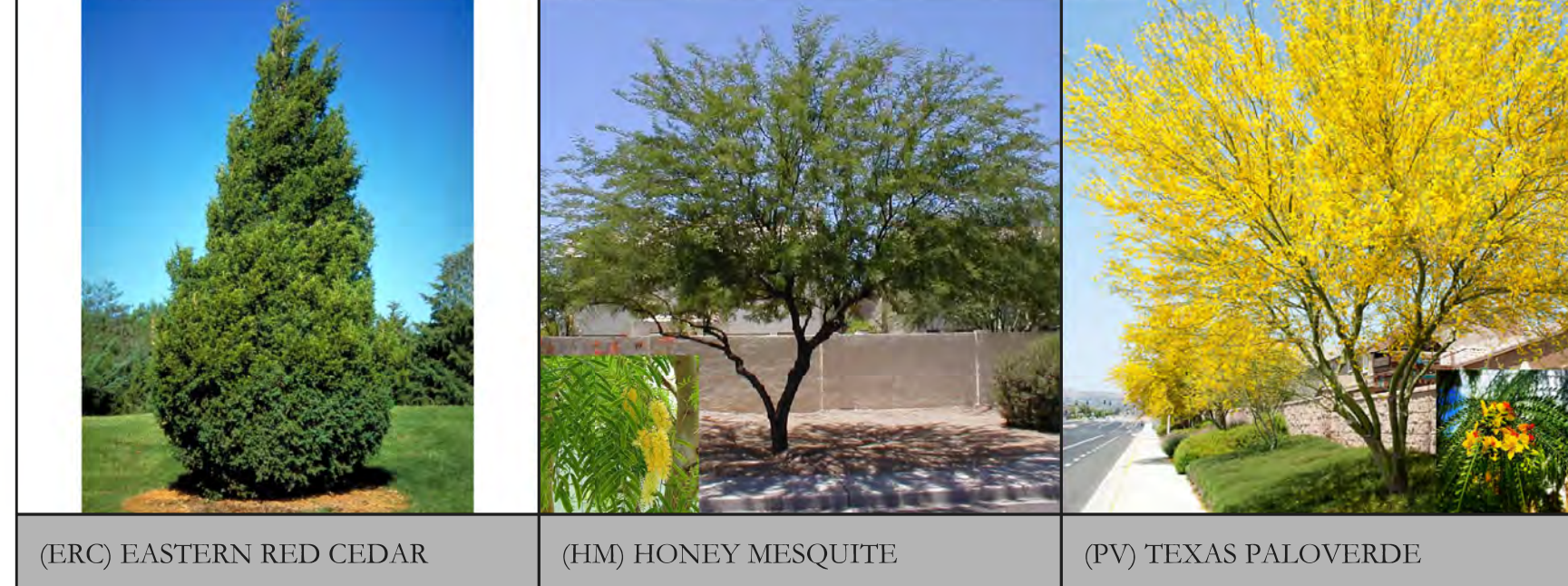
LANDSCAPE DEVELOPMENT
 Planting Schedule & Notes
 Newhaven Residential Development
 Manor, Travis County TX.

LARGE TREES



(SC) SOUTHERN CATALPA (LO) LIVE OAK (TRO) TEXAS RED OAK (TP) TULIP POPLAR (MS) MEXICAN SYCAMORE (BM) BIGTOOTH MAPLE (MZO) MONTEZUMA CYPRESS (JBP) JAPANESE BLACK PINE (GKO) GINKGO BILOBA

MEDIUM TREES



(ERC) EASTERN RED CEDAR (HM) HONEY MESQUITE (PV) TEXAS PALOVERDE

SMALL TREES



(DW) DESERT WILLOW (WM) WAX MYRTLE (TML) TEXAS MOUNTAIN LAUREL (RE) RETAMA TREE (MR) MEXICAN REDBUD (MXP) MEXICAN PLUM

SHRUBS



(DBR) DWARF BOTTLEBRUSH (DC) DESERT CASSIA (VJP) VAR. JAPANESE PRIVET (PI) BLUE PLUMBAGO (SBG) SILVER BUSH GERMANDER (TS) SILVERADO TEXAS SAGE (DKO) DOUBLE KNOCKOUT ROSE (SSL) SUNSHINE LIGUSTRUM (DWM) DWARF WAX MYRTLE

SHRUBS CONT.



(DYH) DWARF YAUPON HOLLY (ES) ESPERANZA (FB) FIRE BUSH (PIJ) PARSONII JUNIPER (POB) PRIDE OF BARBADOS (TC) TURK'S CAP (UR) UPRIGHT ROSEMARY (BI) BICOLOR IRIS (FC) FIRECRACKER PLANT

GROUND COVER



(GL) GIANT LIRIOPE (TB) TANGERING BULBINE (TXL) TEXAS LANTANA (WE) WEDELIA

XERISPACE PLANTING



(CY) COLOR GUARD YUCCA (TPP) THORNLESS PRICKLY PEAR (RY) RED YUCCA (CP) CENTURY PLANT

XERISPACE PLANTING



(HG) HAMELN GRASS (GMG) GULF MUHLY GRASS

STONE / GRAVEL



TEXAS MOSS ROCK BOULDER PECOS PLAIN GRAVEL



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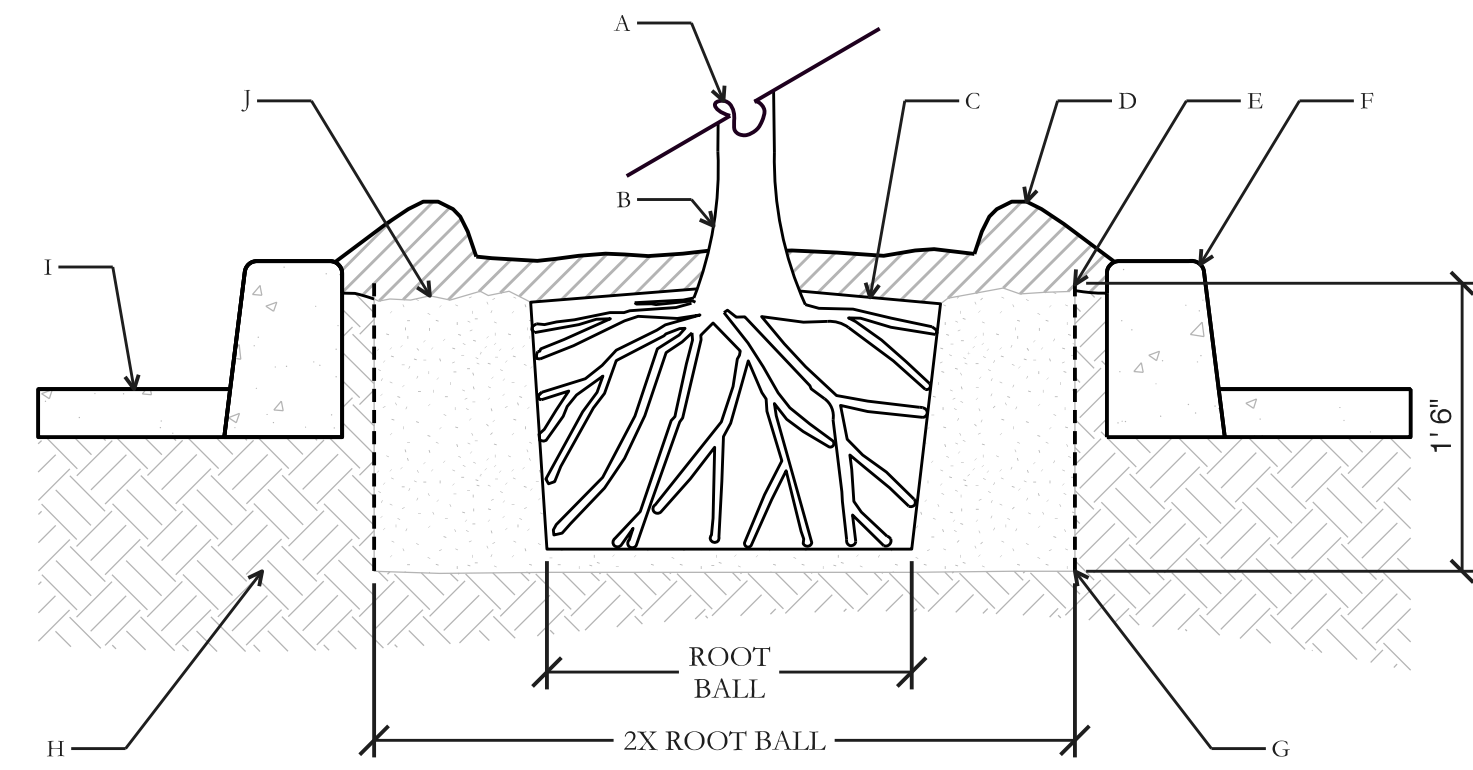
LANDSCAPE DEVELOPMENT

Planting Selection - Conceptual Images

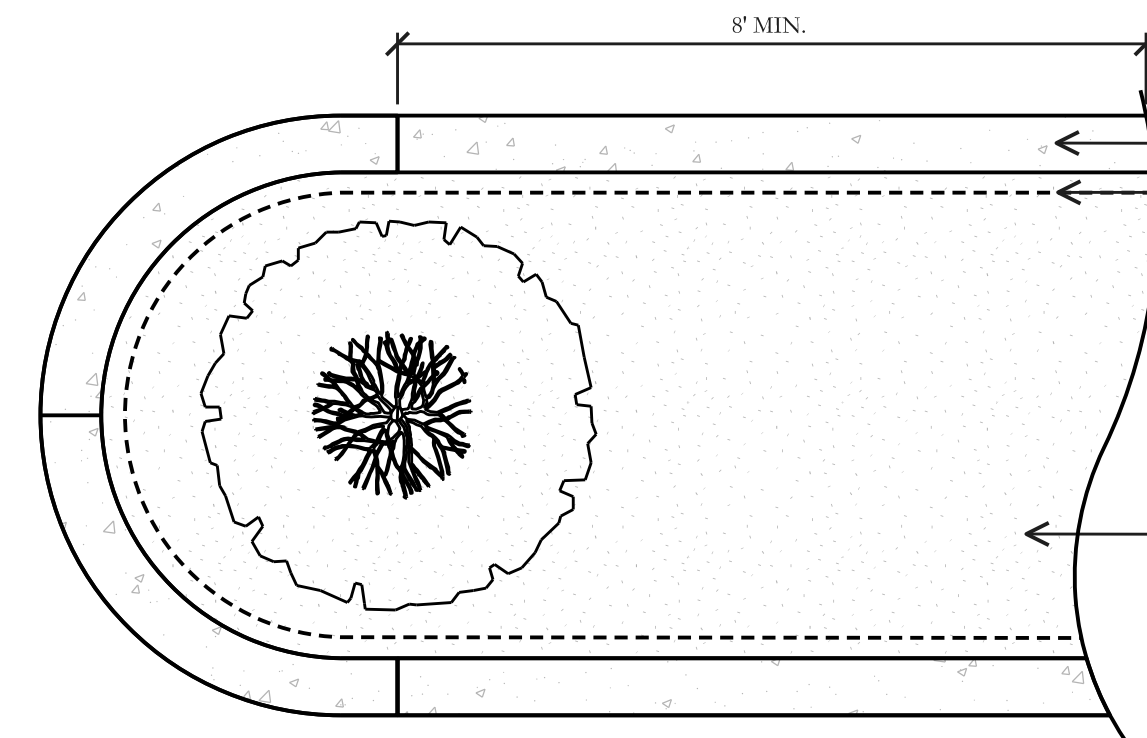
Newhaven Residential Development

Manor, Travis County TX.

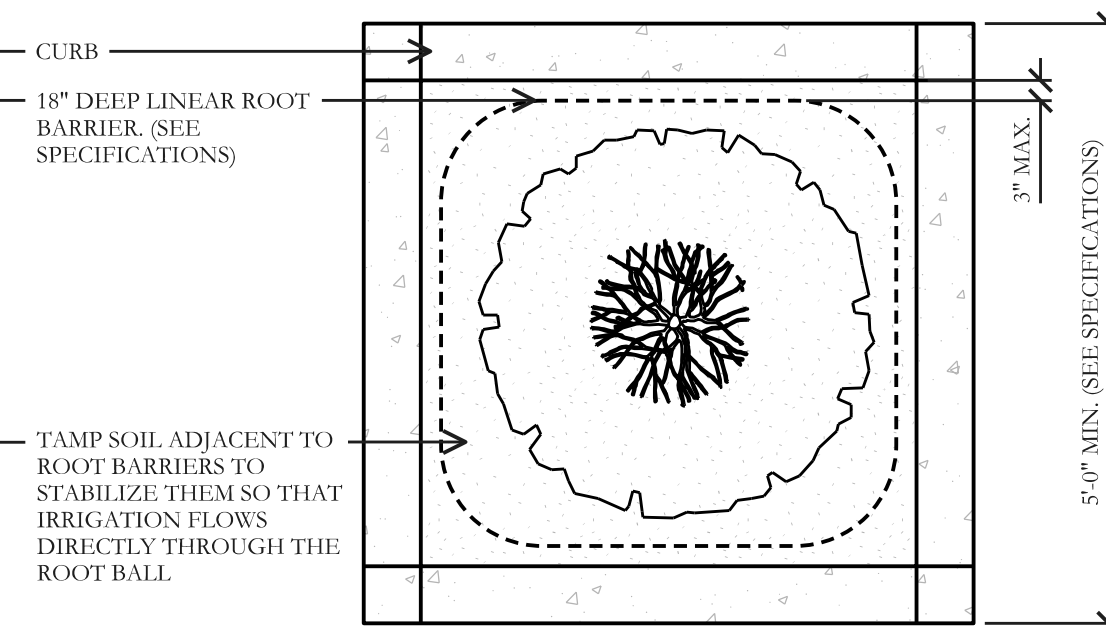
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SECTION VIEW



PLAN VIEW



PLAN VIEW

CONSTRUCTION NOTES:

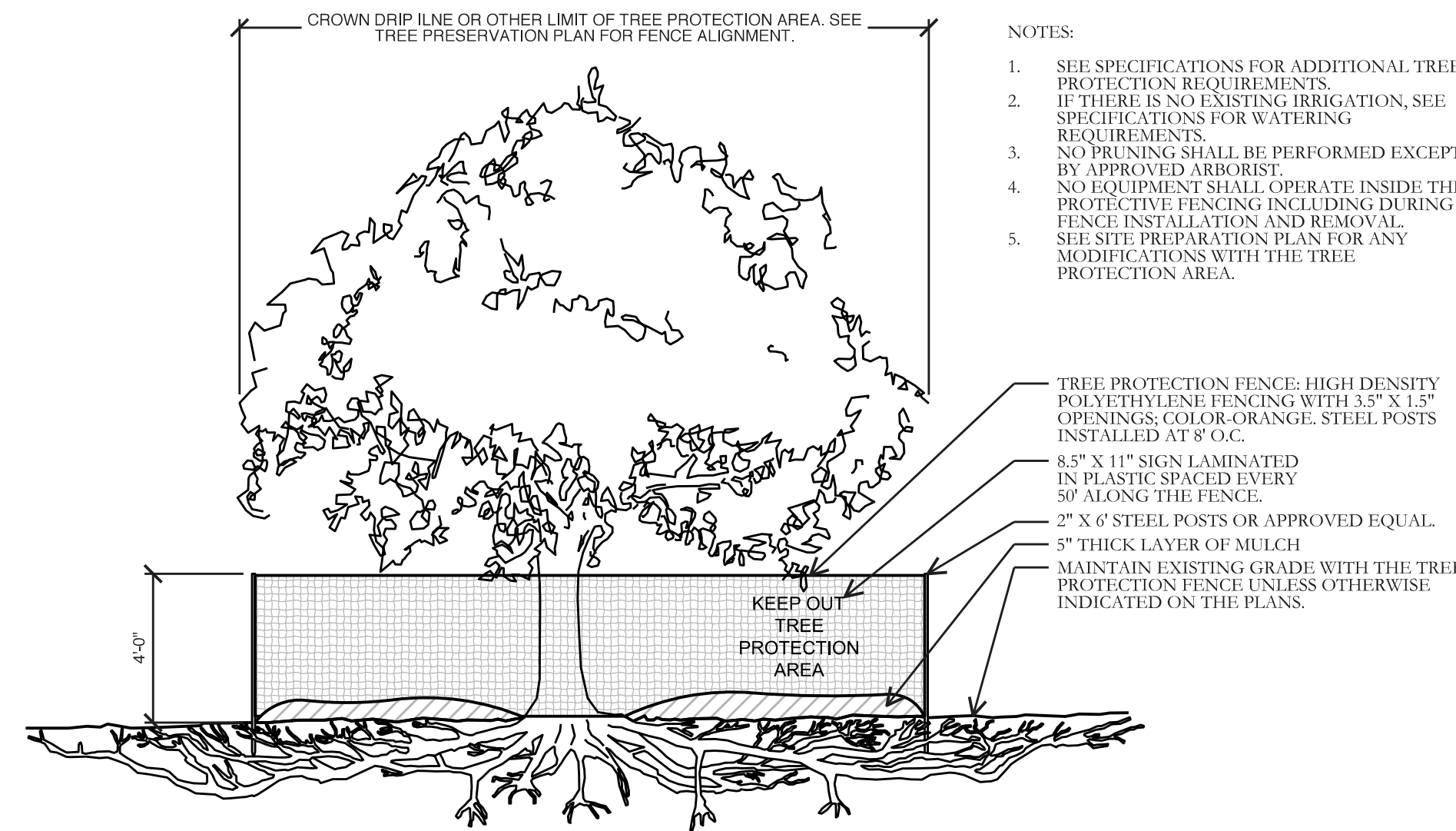
1. ROOT BARRIERS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATION AND RECOMMENDATIONS.
2. ROOT BARRIERS SHALL BE INSTALLED WHEN ROOT BALL IS LOCATED WITH 8'-0\"/>

GENERAL NOTES:

- A. TREE TRUNK** *(DO NOT CUT CENTRAL LEADER)
- B. TRUNK FLARE SHALL REMAIN VISIBLE
- C. TOP OF ROOTBALL AT THE SURFACE
- D. MULCH LAYER AS SPECIFIED
- E. TOP OF ROOT BARRIER 1\"/>

5 ROOT BARRIERS - PARKING LOT ISLANDS
 PLAN/SECTION

NOT TO SCALE

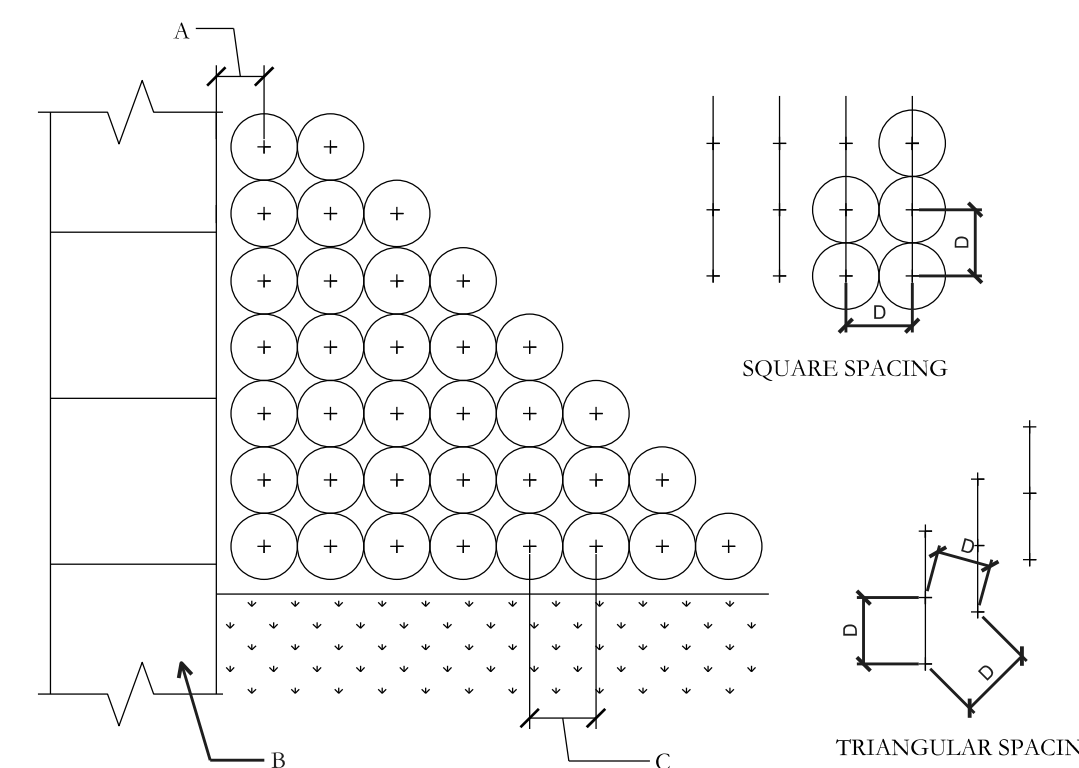


- NOTES:**
1. SEE SPECIFICATIONS FOR ADDITIONAL TREE PROTECTION REQUIREMENTS.
 2. IF THERE IS NO EXISTING IRRIGATION, SEE SPECIFICATIONS FOR WATERING REQUIREMENTS.
 3. NO PRUNING SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST.
 4. NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.
 5. SEE SITE PREPARATION PLAN FOR ANY MODIFICATIONS WITH THE TREE PROTECTION AREA.

- TREE PROTECTION FENCE: HIGH DENSITY POLYETHYLENE FENCING WITH 3.5\"/>

4 TREE PROTECTION
 SECTION

NOT TO SCALE



2 TYPICAL SHRUB AND GROUNDCOVER PLANTING
 PLAN/SECTION

NOT TO SCALE

CONSTRUCTION NOTES:

1. TRIANGULAR SPACING IS PREFERRED. USE SQUARE SPACING ONLY IN SMALL RECTILINEAR AREAS.
2. 'D' EQUALS THE SPACING DISTANCE AS SPECIFIED ON THE PLANT LEGEND.
3. REFER TO DETAIL FOR ROOT PRUNING.

GENERAL NOTES:

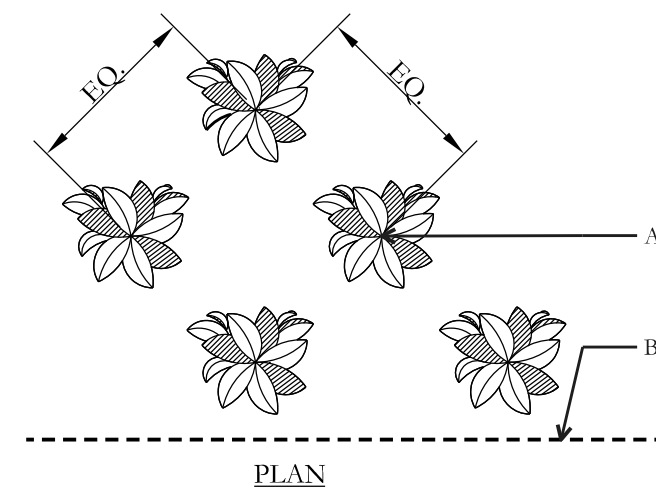
- A. 1/2 SPACING AS SHOWN ON PLANT LIST
- B. CONCRETE SIDEWALK
- C. SPACING AS SHOWN ON PLANTING LIST
- D. REMOVE ALL LABELS & TAGS
- E. SHALL BE 1\"/>

CONSTRUCTION NOTES:

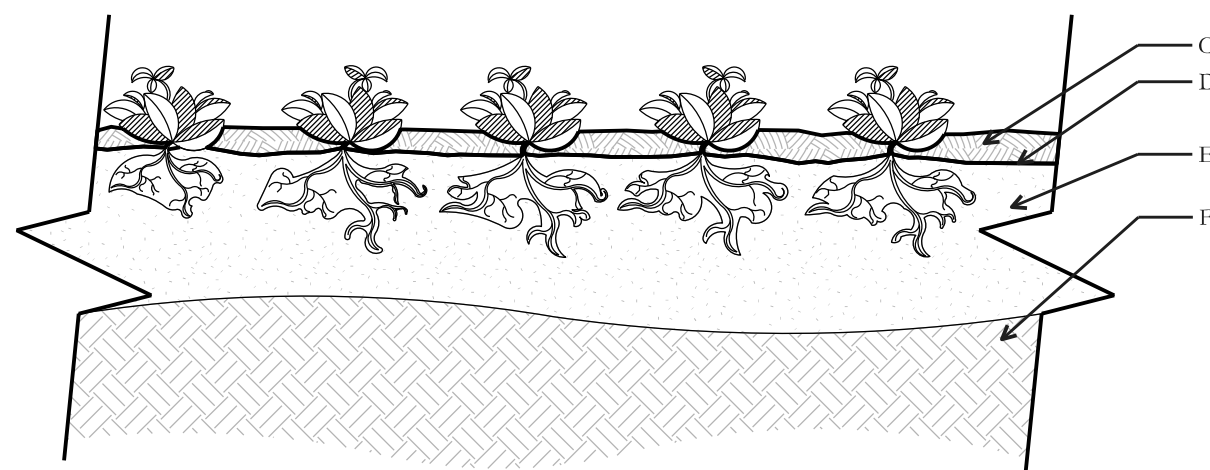
1. SEE PLANTING LEGEND FOR GROUNDCOVER SPECIES, SIZE, & SPACING DIMENSION.
2. SMALL ROOTS (1/4\"/>

GENERAL NOTES:

- A. GROUNDCOVER PLANTS TO BE TRIANGULARLY SPACED.
- B. BED EDGE
- C. 3 - 4\"/>



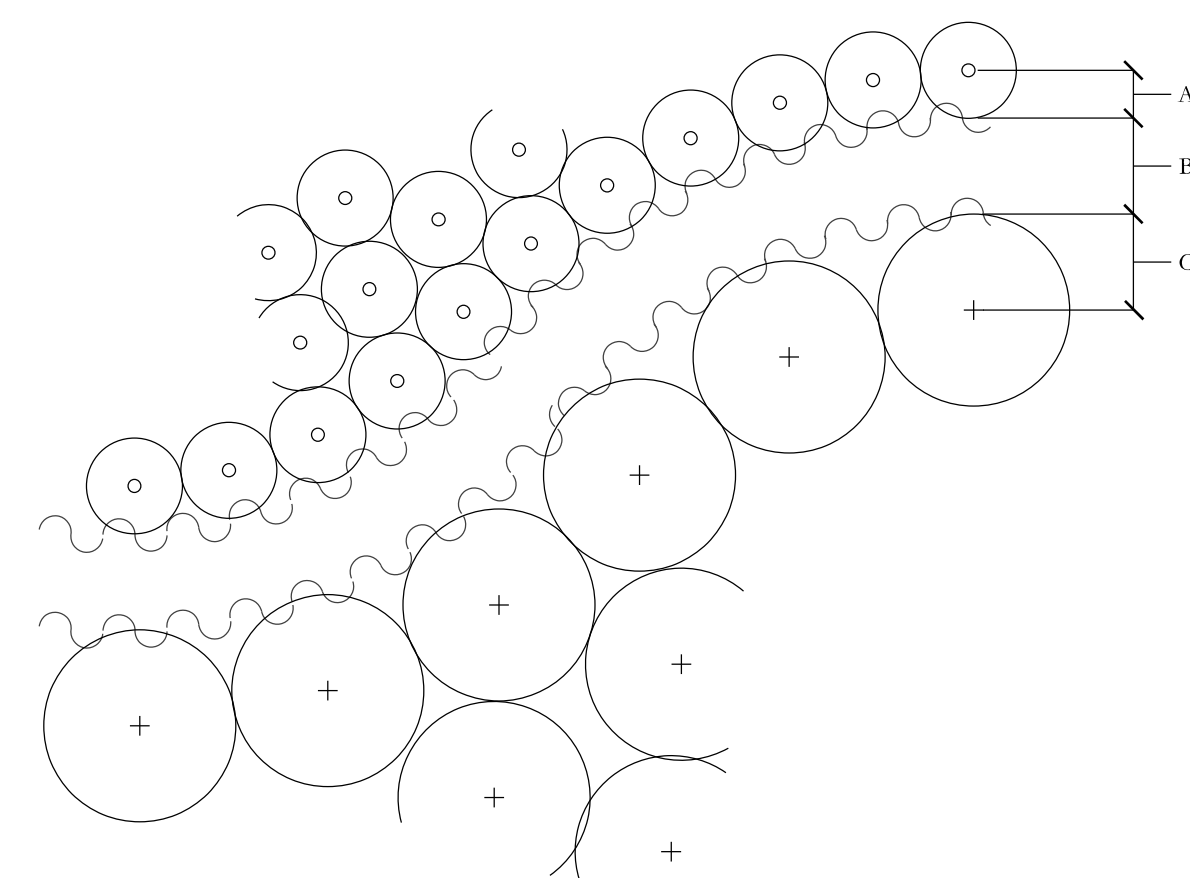
PLAN



SECTION VIEW

6 GROUNDCOVER
 DETAIL

NOT TO SCALE



3 CURVED BED LAYOUT
 PLAN VIEW

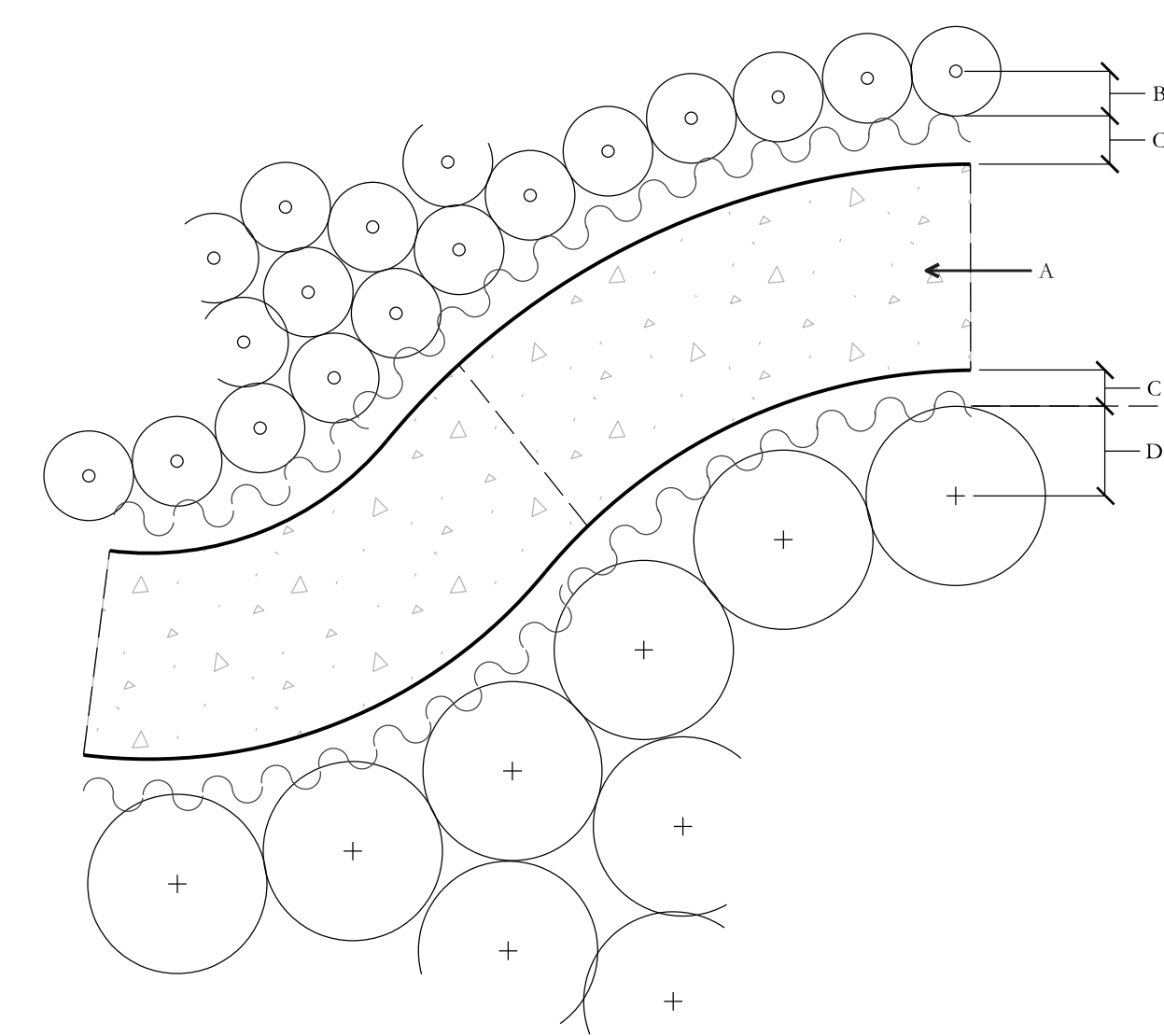
NOT TO SCALE

CONSTRUCTION NOTES:

1. CONTRACTOR SHALL PLANT PERIMETER OF PLANTING ALONG CURVE. CONTRACTOR SHALL THEN PLANT REMAINDER OF BED TRIANGULARLY AT SPECIFIED SPACING.
2. TRIANGULAR SPACING IS PREFERRED. USE SQUARE SPACING ONLY IN SMALL RECTILINEAR AREAS.
3. REFER TO DETAIL FOR ROOT PRUNING.

GENERAL NOTES:

- A. 1/2 SPACING AS SHOWN ON PLANT LIST
- B. 6\"/>



1 BED ALONG CURVE SIDEWALK
 PLAN VIEW

NOT TO SCALE

CONSTRUCTION NOTES:

1. CONTRACTOR SHALL PLANT PERIMETER OF BED AREA ALONG PAVEMENT CURVE. CONTRACTOR SHALL THEN PLANT REMAINDER OF BED TRIANGULARLY AT SPECIFIED SPACING.
2. TRIANGULAR SPACING IS PREFERRED. USE SQUARE SPACING ONLY IN SMALL RECTILINEAR AREAS.
3. REFER TO DETAIL FOR ROOT PRUNING.

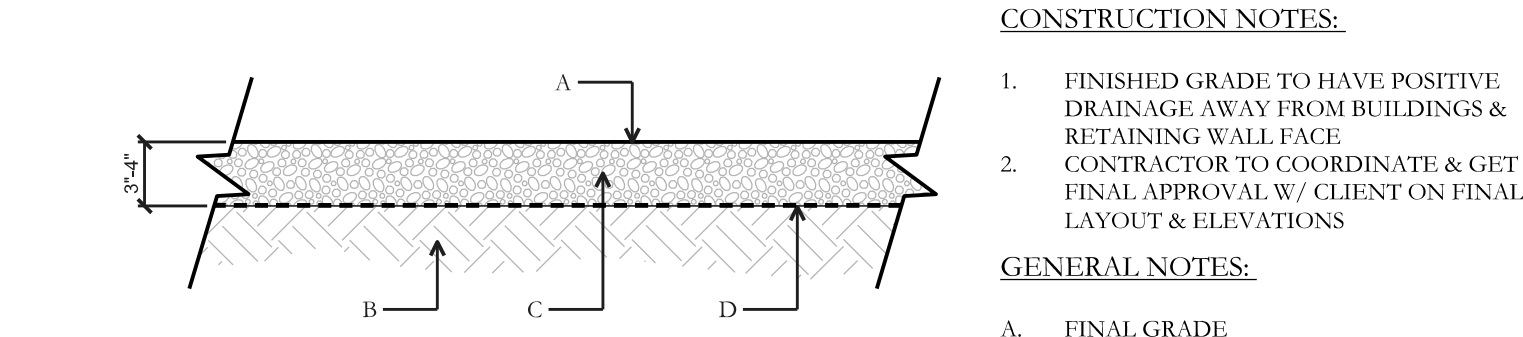
GENERAL NOTES:

- A. CURVED CONCRETE SIDEWALK
- B. 1/2 SPACING AS SHOWN ON PLANT LIST
- C. 6\"/>

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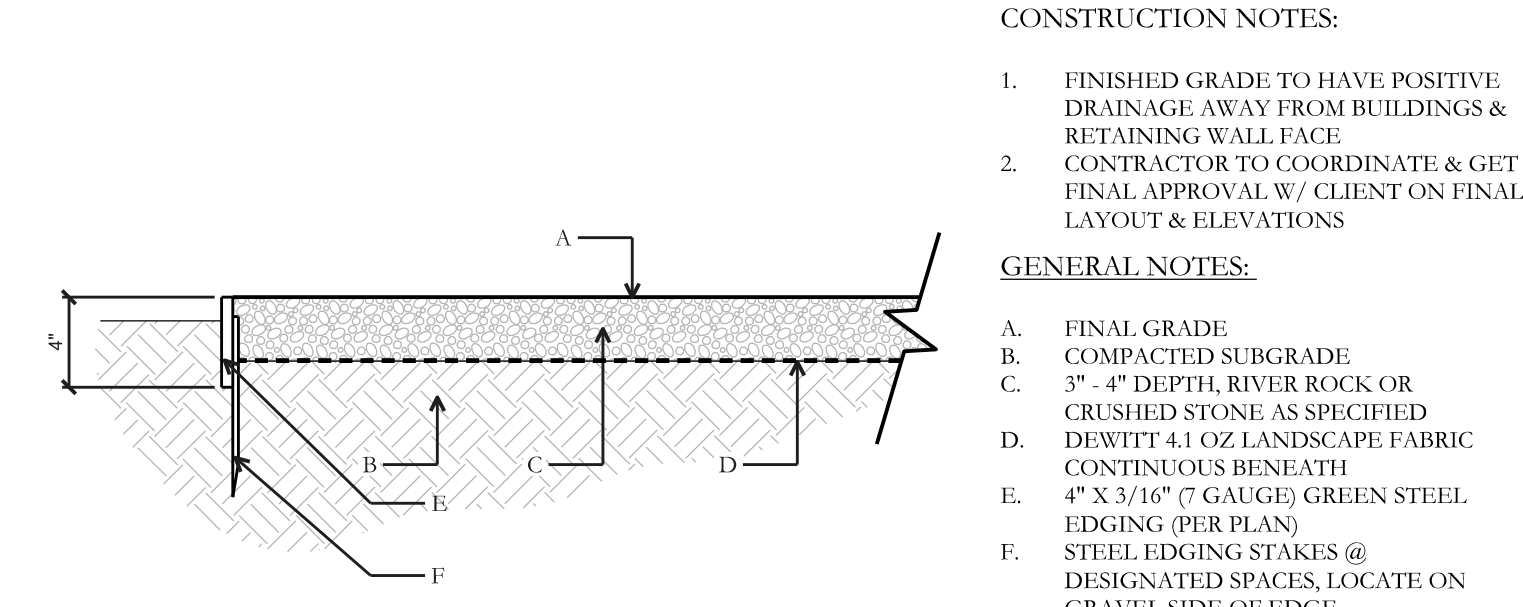


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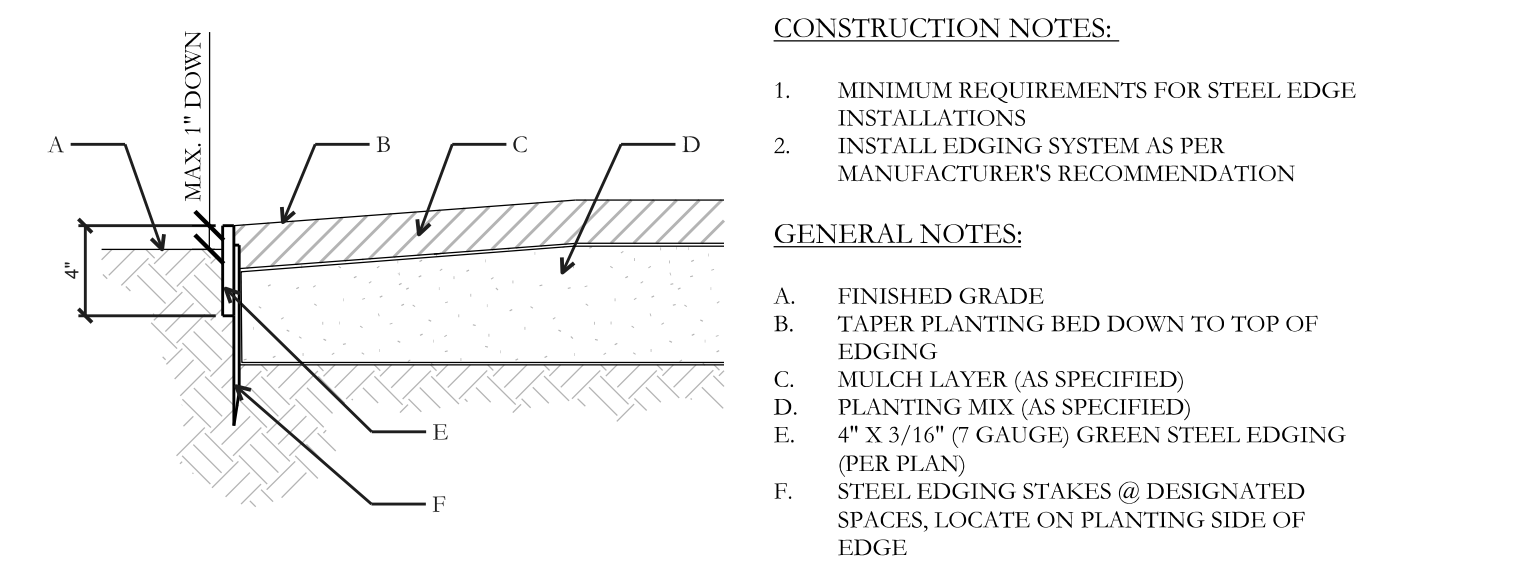
11 ROCK AND STONE BEDS SECTION NOT TO SCALE

- CONSTRUCTION NOTES:**
1. FINISHED GRADE TO HAVE POSITIVE DRAINAGE AWAY FROM BUILDINGS & RETAINING WALL FACE
 2. CONTRACTOR TO COORDINATE & GET FINAL APPROVAL W/ CLIENT ON FINAL LAYOUT & ELEVATIONS
- GENERAL NOTES:**
- A. FINAL GRADE
 - B. COMPACTED SUBGRADE
 - C. 3" - 4" DEPTH RIVER ROCK OR CRUSHED STONE AS SPECIFIED
 - D. DEWITT 4.1 OZ. LANDSCAPE FABRIC CONTINUOUS BENEATH



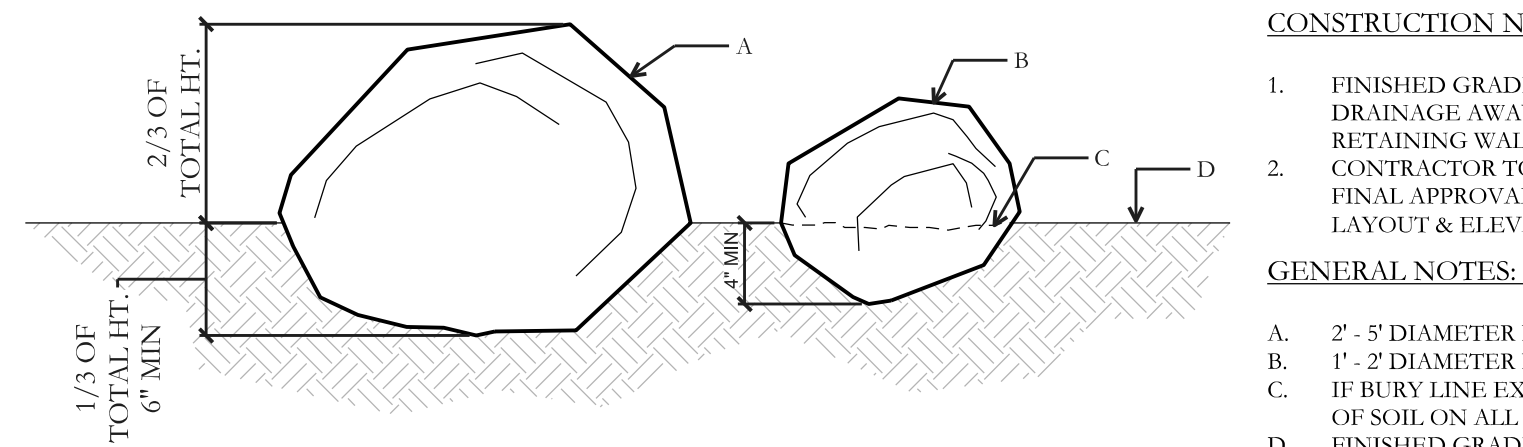
10 TYPICAL STEEL EDGING - GRAVEL EDGING DETAIL SECTION NOT TO SCALE

- CONSTRUCTION NOTES:**
1. FINISHED GRADE TO HAVE POSITIVE DRAINAGE AWAY FROM BUILDINGS & RETAINING WALL FACE
 2. CONTRACTOR TO COORDINATE & GET FINAL APPROVAL W/ CLIENT ON FINAL LAYOUT & ELEVATIONS
- GENERAL NOTES:**
- A. FINAL GRADE
 - B. COMPACTED SUBGRADE
 - C. 3" - 4" DEPTH RIVER ROCK OR CRUSHED STONE AS SPECIFIED
 - D. DEWITT 4.1 OZ. LANDSCAPE FABRIC CONTINUOUS BENEATH
 - E. 4" X 3/16" (7 GAUGE) GREEN STEEL EDGING (PER PLAN)
 - F. STEEL EDGING STAKES @ DESIGNATED SPACES, LOCATE ON GRAVEL SIDE OF EDGE



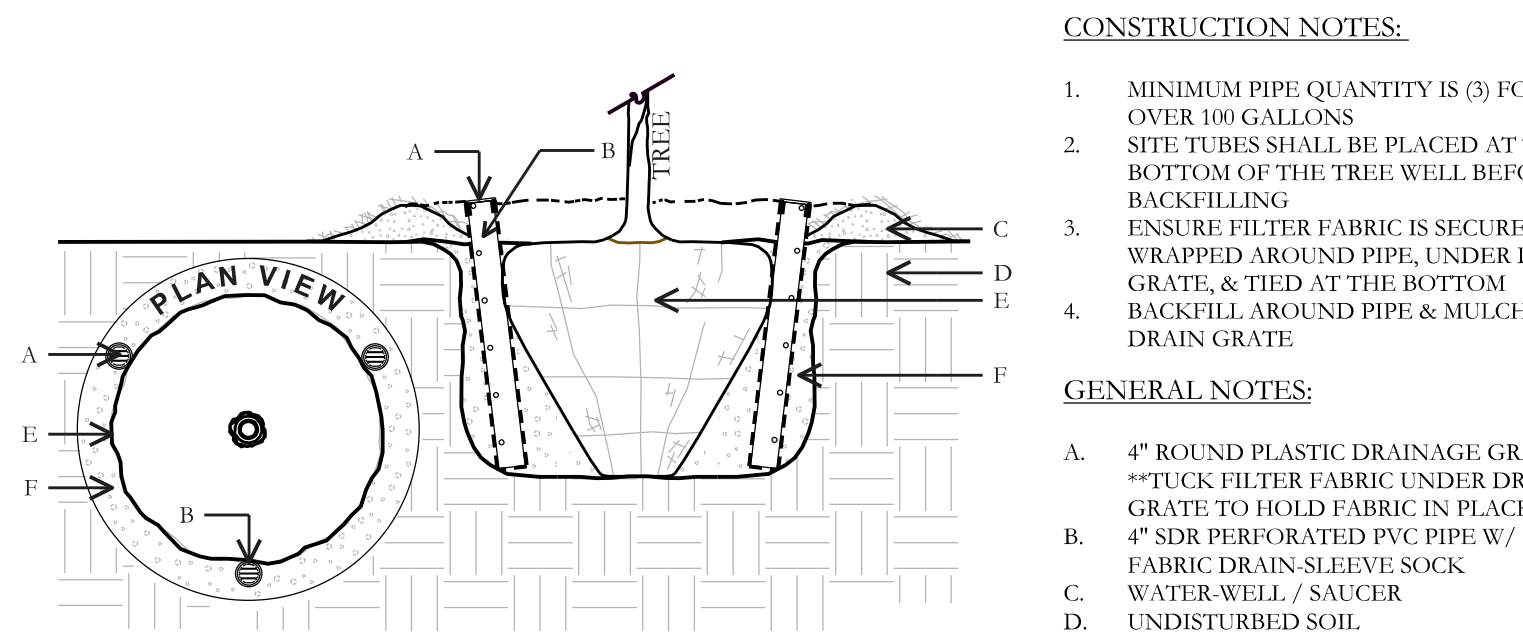
9 TYPICAL STEEL EDGING - BED EDGING DETAIL SECTION NOT TO SCALE

- CONSTRUCTION NOTES:**
1. MINIMUM REQUIREMENTS FOR STEEL EDGE INSTALLATIONS
 2. INSTALL EDGING SYSTEM AS PER MANUFACTURER'S RECOMMENDATION
- GENERAL NOTES:**
- A. FINISHED GRADE
 - B. TAPER PLANTING BED DOWN TO TOP OF EDGING
 - C. MULCH LAYER (AS SPECIFIED)
 - D. PLANTING MIX (AS SPECIFIED)
 - E. 4" X 3/16" (7 GAUGE) GREEN STEEL EDGING (PER PLAN)
 - F. STEEL EDGING STAKES @ DESIGNATED SPACES, LOCATE ON PLANTING SIDE OF EDGE



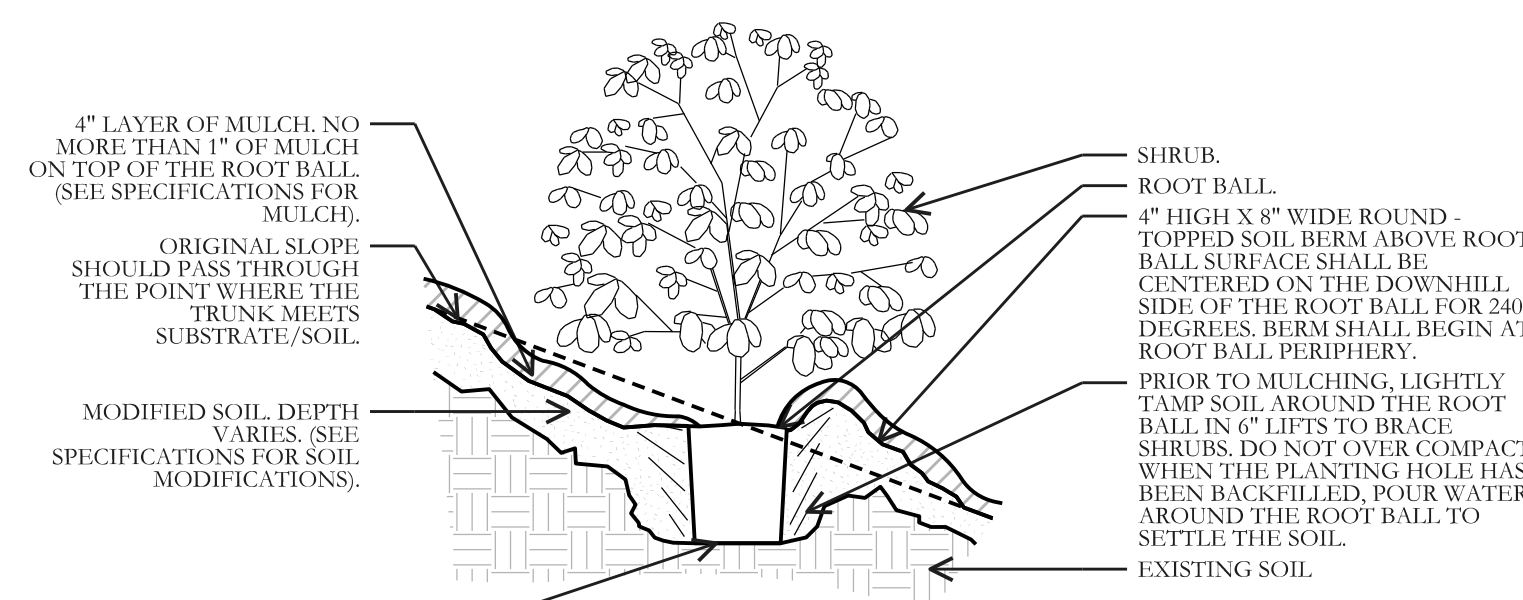
8 LANDSCAPE BOULDER DETAIL SECTION NOT TO SCALE

- CONSTRUCTION NOTES:**
1. FINISHED GRADE TO HAVE POSITIVE DRAINAGE AWAY FROM BUILDINGS & RETAINING WALL FACE
 2. CONTRACTOR TO COORDINATE & GET FINAL APPROVAL W/ CLIENT ON FINAL LAYOUT & ELEVATIONS
- GENERAL NOTES:**
- A. 2' - 5' DIAMETER BOULDER
 - B. 1' - 2' DIAMETER BOULDER
 - C. IF BURY LINE EXISTS, MATCH DEPTH OF SOIL ON ALL SIDES OF BOULDER
 - D. FINISHED GRADE



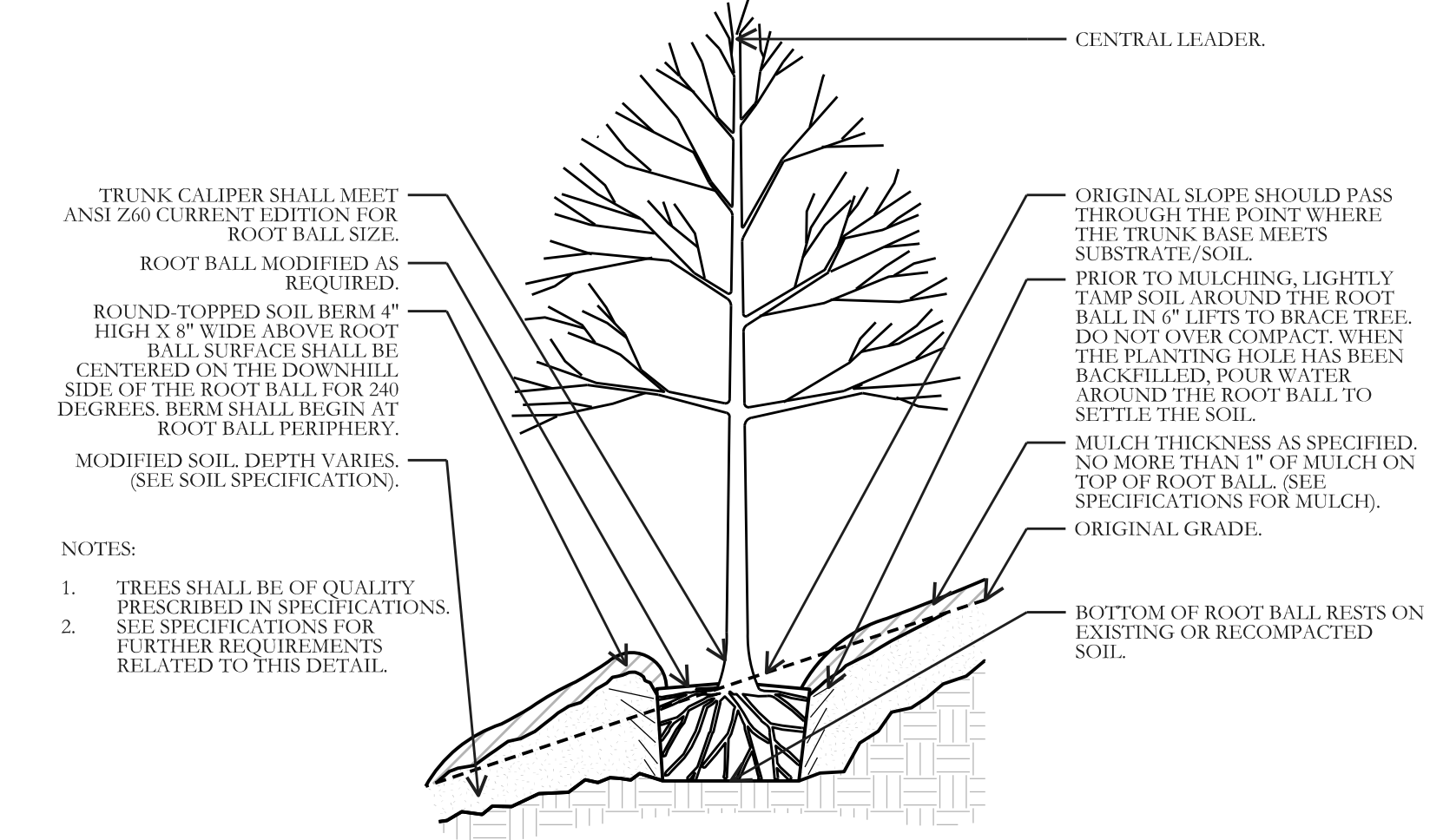
7 WATERING TUBE DETAIL - 3 TUBES SECTION NOT TO SCALE

- CONSTRUCTION NOTES:**
1. MINIMUM PIPE QUANTITY IS (3) FOR TREES OVER 100 GALLONS
 2. SITE TUBES SHALL BE PLACED AT THE BOTTOM OF THE TREE WELL BEFORE BACKFILLING
 3. ENSURE FILTER FABRIC IS SECURELY WRAPPED AROUND PIPE, UNDER DRAINAGE GRATE, & TIED AT THE BOTTOM
 4. BACKFILL AROUND PIPE & MULCH LEVEL TO DRAIN GRATE
- GENERAL NOTES:**
- A. 4" ROUND PLASTIC DRAINAGE GRATE
 - **TUCK FILTER FABRIC UNDER DRAIN GRATE TO HOLD FABRIC IN PLACE (MIN. 4")
 - B. 4" SDR PERFORATED PVC PIPE W/ FILTER FABRIC DRAIN-SLEEVE SOCK
 - C. WATER-WELL / SAUCER
 - D. UNDISTURBED SOIL
 - E. TREE / ROOTBALL (AS SPECIFIED)
 - F. BACKFILL (AS SPECIFIED)



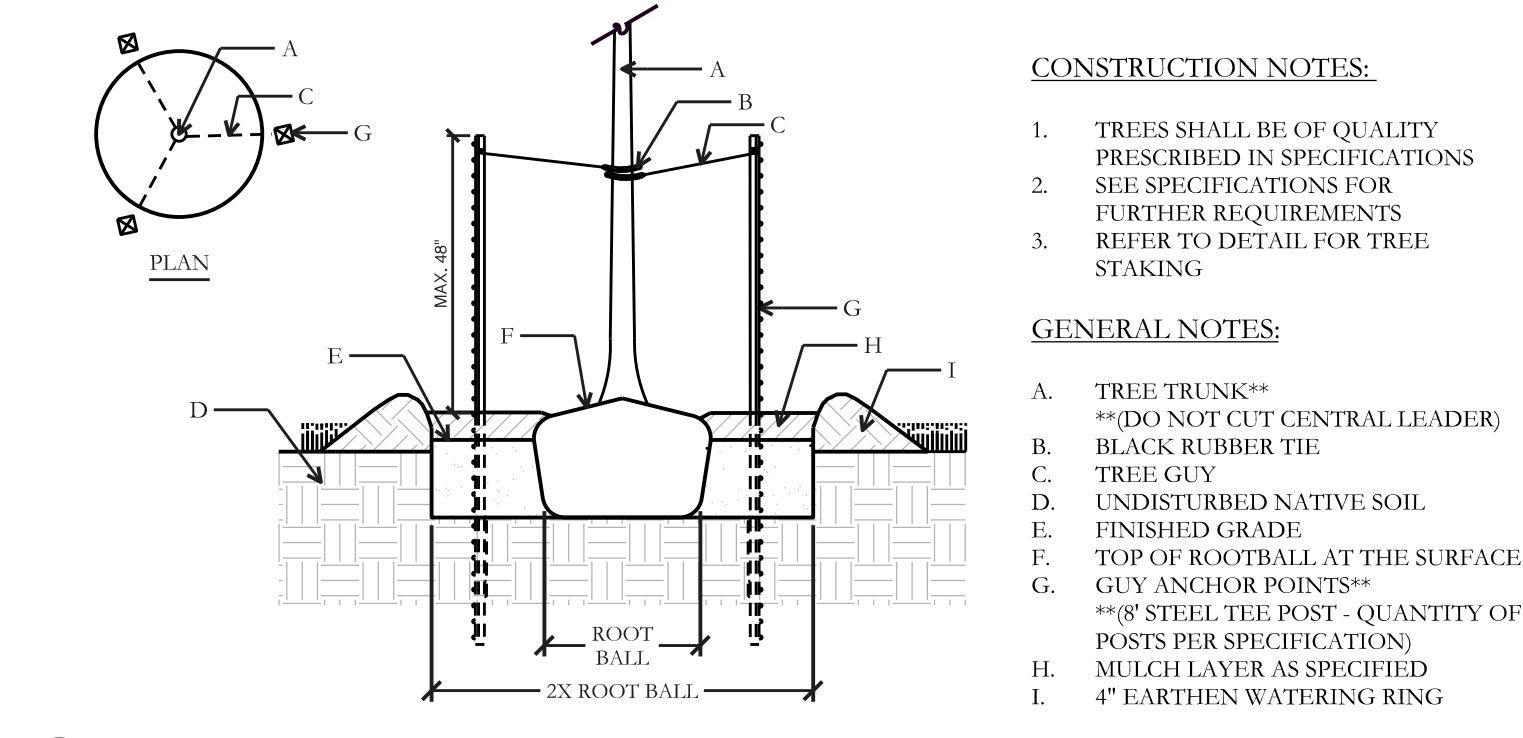
6 SHRUB ON SLOPE 5% (20:1) TO 50% (2:1) - MODIFIED SOIL SECTION NOT TO SCALE

- CONSTRUCTION NOTES:**
1. FINISHED GRADE TO HAVE POSITIVE DRAINAGE AWAY FROM BUILDINGS & RETAINING WALL FACE
 2. CONTRACTOR TO COORDINATE & GET FINAL APPROVAL W/ CLIENT ON FINAL LAYOUT & ELEVATIONS
- GENERAL NOTES:**
1. 4" LAYER OF MULCH NO MORE THAN 1" OF MULCH ON TOP OF THE ROOT BALL (SEE SPECIFICATIONS FOR MULCH)
 2. ORIGINAL SLOPE SHOULD PASS THROUGH THE POINT WHERE THE TRUNK MEETS SUBSTRATE/SOIL
 3. MODIFIED SOIL DEPTH VARIES (SEE SPECIFICATIONS FOR SOIL MODIFICATIONS)
 4. BOTTOM OF ROOT BALL RESTS ON EXISTING OR RECOMPACTED SOIL
- NOTES:**
1. SHRUBS SHALL BE OF QUALITY AS PRESCRIBED IN THE ROOT OBSERVATIONS DETAIL AND SPECIFICATION.
 2. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL.



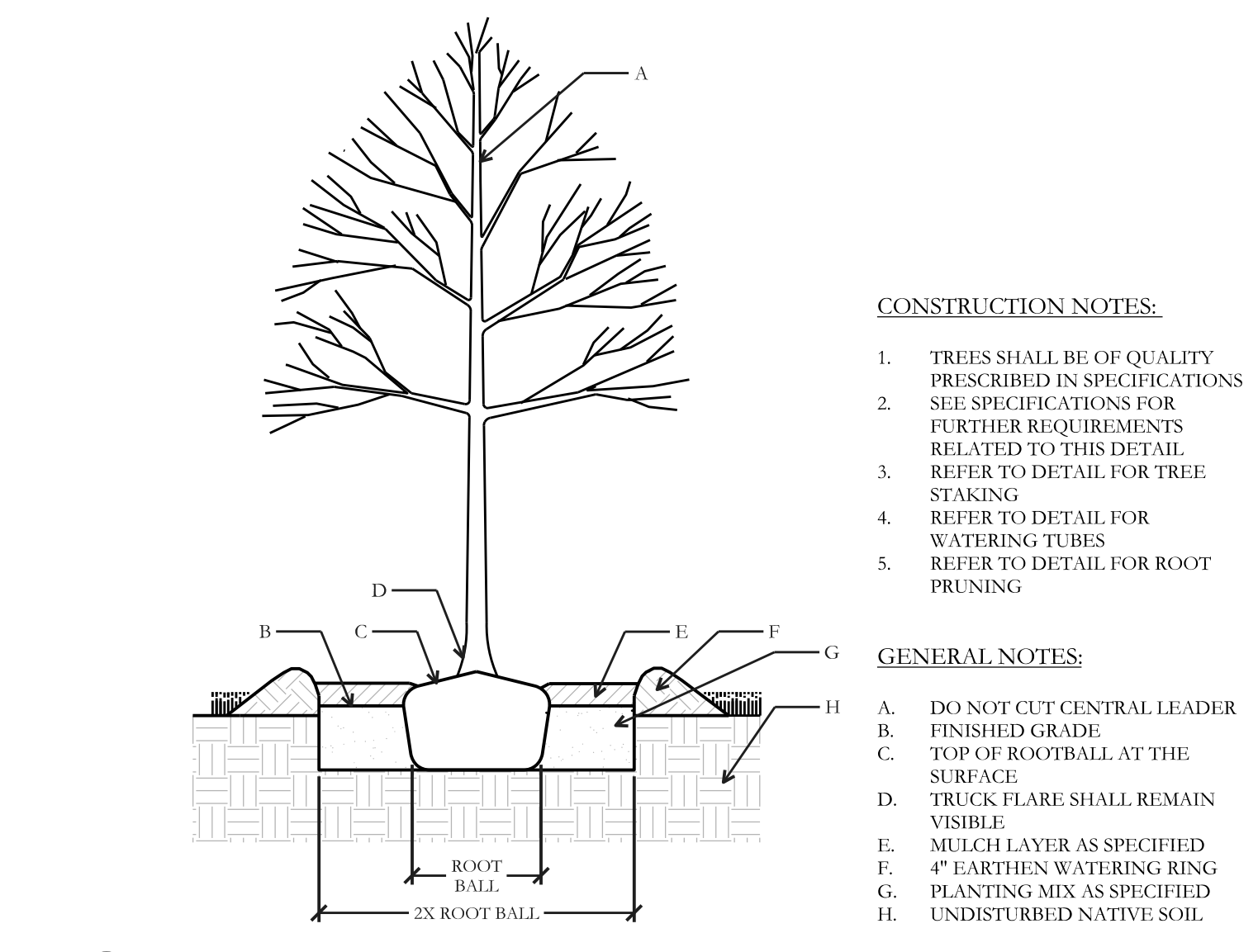
3 TREE ON SLOPE 5% (20:1) TO 50% (2:1) SECTION NOT TO SCALE

- CONSTRUCTION NOTES:**
1. FINISHED GRADE TO HAVE POSITIVE DRAINAGE AWAY FROM BUILDINGS & RETAINING WALL FACE
 2. CONTRACTOR TO COORDINATE & GET FINAL APPROVAL W/ CLIENT ON FINAL LAYOUT & ELEVATIONS
- GENERAL NOTES:**
1. TRUNK CALIPER SHALL MEET ANSI Z60 CURRENT EDITION FOR ROOT BALL SIZE
 2. ROOT BALL MODIFIED AS REQUIRED
 3. ROUND-TOPPED SOIL BERM 4" HIGH X 8" WIDE ABOVE ROOT BALL SURFACE SHALL BE CENTERED ON THE DOWNHILL SIDE OF THE ROOT BALL FOR 240 DEGREES. BERM SHALL BEGIN AT ROOT BALL PERIPHERY.
 4. MODIFIED SOIL DEPTH VARIES (SEE SOIL SPECIFICATION)
 5. ORIGINAL SLOPE SHOULD PASS THROUGH THE POINT WHERE THE TRUNK BASE MEETS SUBSTRATE/SOIL
 6. PRIOR TO MULCHING, LIGHTLY TAMP SOIL AROUND THE ROOT BALL IN 6" LIFTS TO BRACE TREE. DO NOT OVER COMPACT. WHEN THE PLANTING HOLE HAS BEEN BACKFILLED, POUR WATER AROUND THE ROOT BALL TO SETTLE THE SOIL.
 7. MULCH THICKNESS AS SPECIFIED, NO MORE THAN 1" OF MULCH ON TOP OF ROOT BALL (SEE SPECIFICATIONS FOR MULCH)
 8. ORIGINAL GRADE
 9. BOTTOM OF ROOT BALL RESTS ON EXISTING OR RECOMPACTED SOIL
- NOTES:**
1. TREES SHALL BE OF QUALITY PRESCRIBED IN SPECIFICATIONS.
 2. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL.



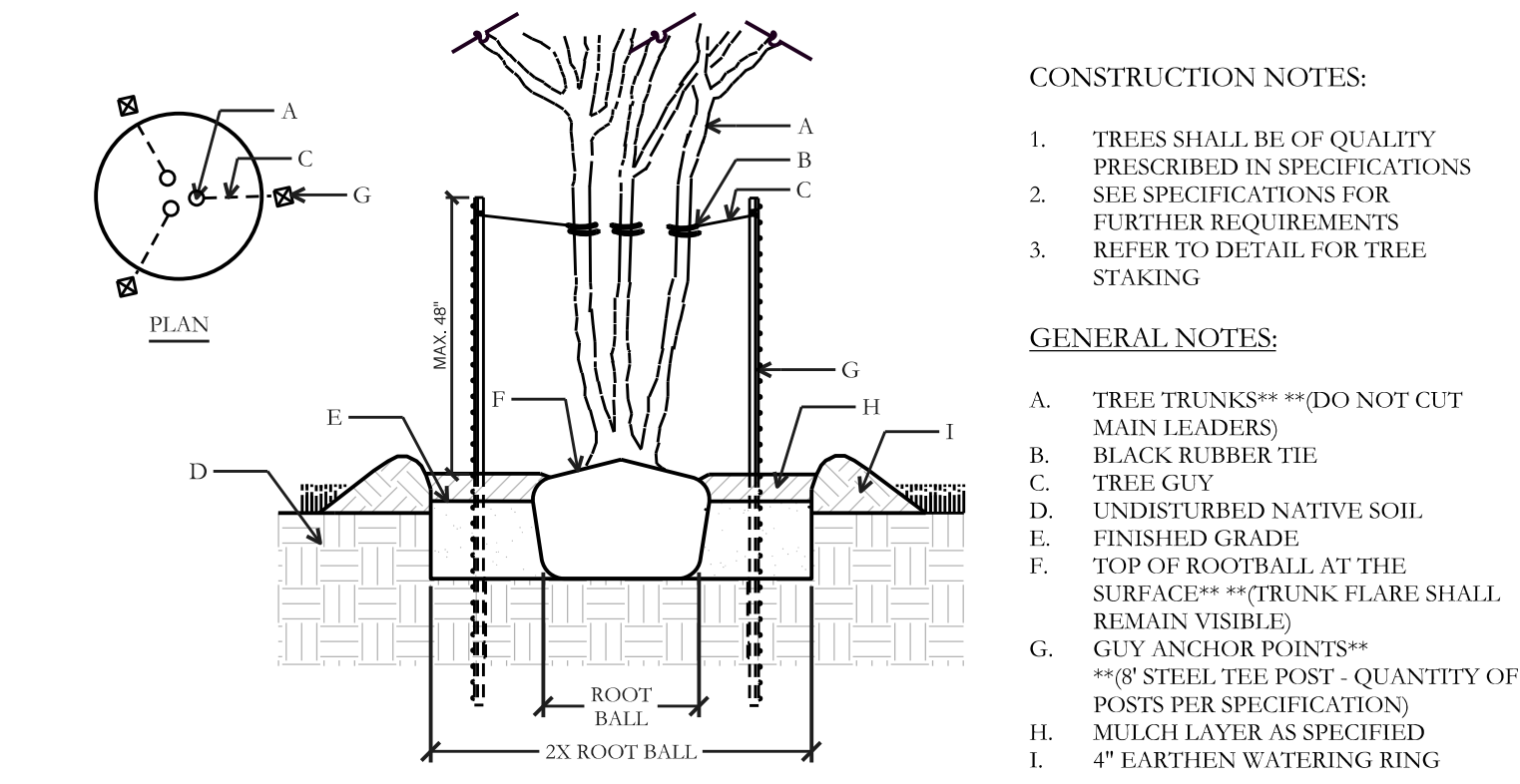
5 T-POSTS - SINGLE TRUNK STAKING DETAIL SECTION NOT TO SCALE

- CONSTRUCTION NOTES:**
1. TREES SHALL BE OF QUALITY PRESCRIBED IN SPECIFICATIONS
 2. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL FOR TREE STAKING
 3. REFER TO DETAIL FOR TREE STAKING
- GENERAL NOTES:**
- A. TREE TRUNK**
 - **DO NOT CUT CENTRAL LEADER
 - B. BLACK RUBBER TIE
 - C. TREE GUY
 - D. UNDISTURBED NATIVE SOIL
 - E. FINISHED GRADE
 - F. TOP OF ROOTBALL AT THE SURFACE
 - G. GUY ANCHOR POINTS**
 - **8" STEEL TEE POST - QUANTITY OF POSTS PER SPECIFICATION
 - H. MULCH LAYER AS SPECIFIED
 - I. 4" EARTHEN WATERING RING



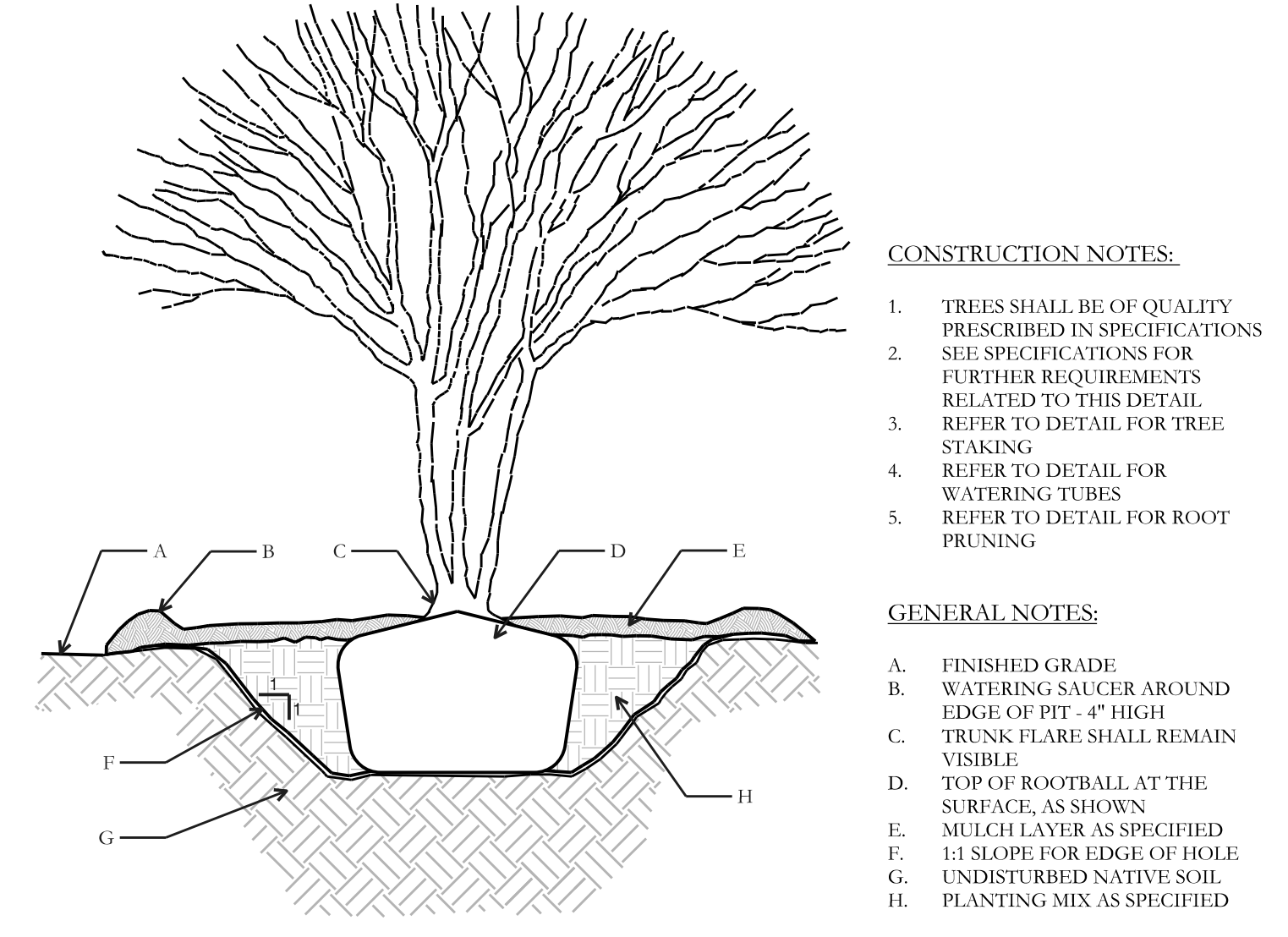
2 TYPICAL TREE PLANTING SECTION NOT TO SCALE

- CONSTRUCTION NOTES:**
1. TREES SHALL BE OF QUALITY PRESCRIBED IN SPECIFICATIONS
 2. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL FOR TREE STAKING
 3. REFER TO DETAIL FOR TREE STAKING
 4. REFER TO DETAIL FOR WATERING TUBES
 5. REFER TO DETAIL FOR ROOT PRUNING
- GENERAL NOTES:**
- A. DO NOT CUT CENTRAL LEADER
 - B. FINISHED GRADE
 - C. TOP OF ROOTBALL AT THE SURFACE
 - D. TRUCK FLARE SHALL REMAIN VISIBLE
 - E. MULCH LAYER AS SPECIFIED
 - F. 4" EARTHEN WATERING RING
 - G. PLANTING MIX AS SPECIFIED
 - H. UNDISTURBED NATIVE SOIL



4 TEE POSTS - MULTI-TRUNK STAKING DETAIL SECTION NOT TO SCALE

- CONSTRUCTION NOTES:**
1. TREES SHALL BE OF QUALITY PRESCRIBED IN SPECIFICATIONS
 2. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL FOR TREE STAKING
 3. REFER TO DETAIL FOR TREE STAKING
- GENERAL NOTES:**
- A. TREE TRUNKS**
 - **DO NOT CUT MAIN LEADERS
 - B. BLACK RUBBER TIE
 - C. TREE GUY
 - D. UNDISTURBED NATIVE SOIL
 - E. FINISHED GRADE
 - F. TOP OF ROOTBALL AT THE SURFACE**
 - **TRUNK FLARE SHALL REMAIN VISIBLE
 - G. GUY ANCHOR POINTS**
 - **8" STEEL TEE POST - QUANTITY OF POSTS PER SPECIFICATION
 - H. MULCH LAYER AS SPECIFIED
 - I. 4" EARTHEN WATERING RING

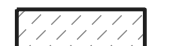


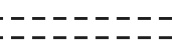


1 TYPICAL MULTI TRUNK TREE PLANTING SECTION NOT TO SCALE

- CONSTRUCTION NOTES:**
1. TREES SHALL BE OF QUALITY PRESCRIBED IN SPECIFICATIONS
 2. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL FOR TREE STAKING
 3. REFER TO DETAIL FOR TREE STAKING
 4. REFER TO DETAIL FOR WATERING TUBES
 5. REFER TO DETAIL FOR ROOT PRUNING
- GENERAL NOTES:**
- A. FINISHED GRADE
 - B. WATERING SAUCER AROUND EDGE OF PIT - 4" HIGH
 - C. TRUNK FLARE SHALL REMAIN VISIBLE
 - D. TOP OF ROOTBALL AT THE SURFACE, AS SHOWN
 - E. MULCH LAYER AS SPECIFIED
 - F. 1:1 SLOPE FOR EDGE OF HOLE
 - G. UNDISTURBED NATIVE SOIL
 - H. PLANTING MIX AS SPECIFIED

MATCHLINE
 REF: SHEET L105, L305, L405
 REF: SHEET L1, L301, L401

IRRIGATION LEGEND

SYMBOL / NOTATION	DESCRIPTION
	ROTOR & SPRAY IRRIGATION (PER PLAN)
	DRIP IRRIGATION (PER PLAN)
	IRRIGATION MAINLINE (PER PLAN)
	SLEEVE LOCATIONS (PER PLAN)

MATCHLINE
 REF: SHEET L102, L302, L402
 REF: SHEET L103, L303, L403

**BLOCK I
 1
 2.634 Ac.**

**BLOCK I
 14
 0.177 Ac.**

**BLOCK I
 15
 0.175 Ac.**

**BLOCK I
 16
 0.182 Ac.**

**BLOCK I
 17
 0.167 Ac.**

**BLOCK I
 18
 0.156 Ac.**

**BLOCK I
 25
 0.155 Ac.**

**BLOCK I
 24
 0.155 Ac.**

**BLOCK I
 23
 0.155 Ac.**

**BLOCK I
 22
 0.155 Ac.**

**BLOCK I
 21
 0.143 Ac.**

**BLOCK I
 20
 0.150 Ac.**

ROTOR & SPRAY
 IRRIGATION (TYP.)

ROTOR & SPRAY
 IRRIGATION (TYP.)

ROTOR & SPRAY
 IRRIGATION (TYP.)

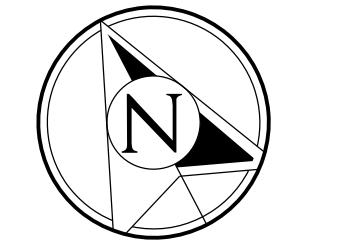


1923 VICTORIA GARDEN DR. RICHMOND, TX 77406
 KYLE@BRUNOLANDDESIGN.COM 409.382.0698

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 08/14/2023



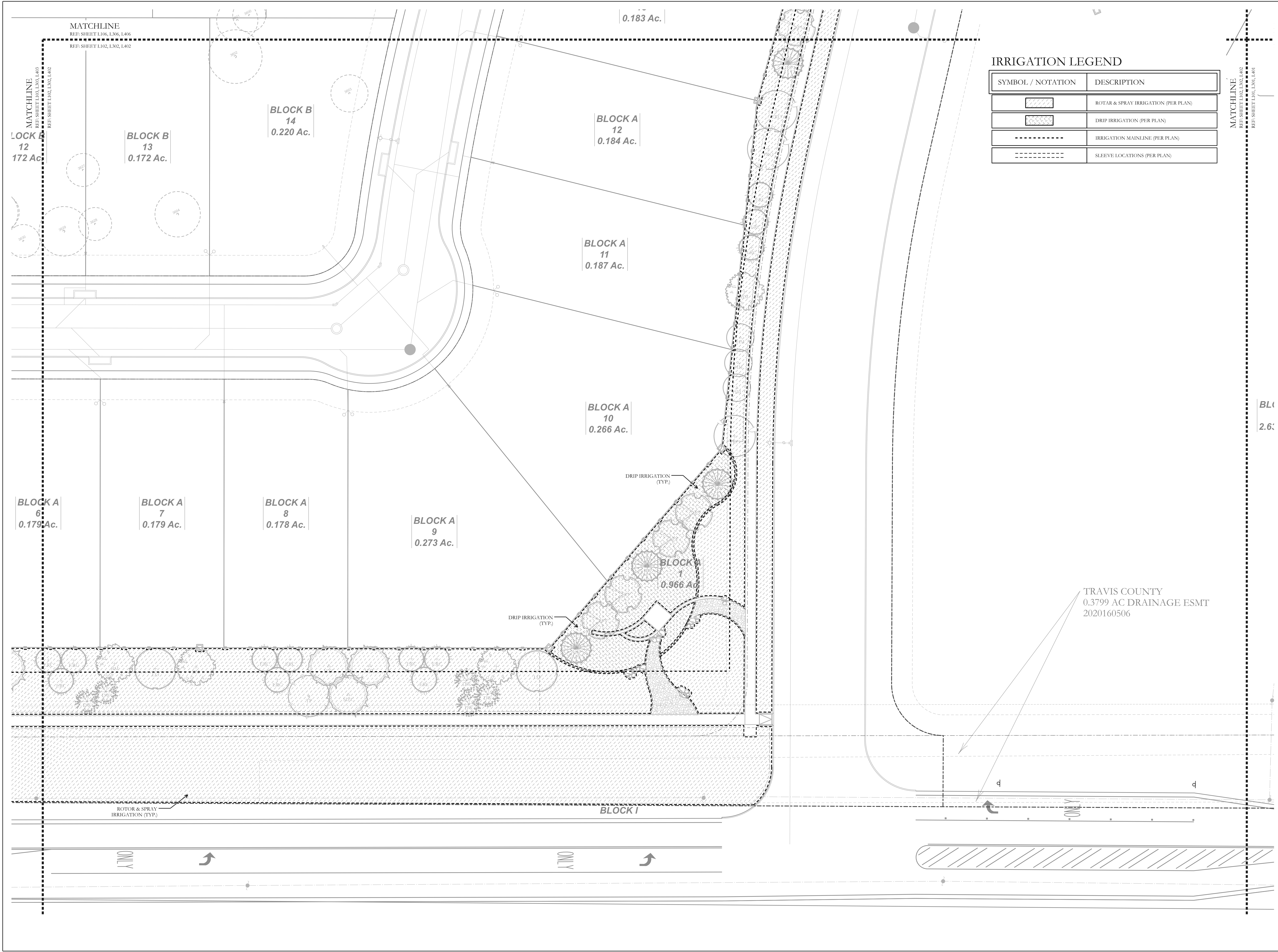
SCALE 1" = 20'-0"

LANDSCAPE DEVELOPMENT

Irrigation Plan

Newhaven Residential Development

Manor, Travis County TX.



IRRIGATION LEGEND

SYMBOL / NOTATION	DESCRIPTION
	ROTAR & SPRAY IRRIGATION (PER PLAN)
	DRIP IRRIGATION (PER PLAN)
	IRRIGATION MAINLINE (PER PLAN)
	SLEEVE LOCATIONS (PER PLAN)

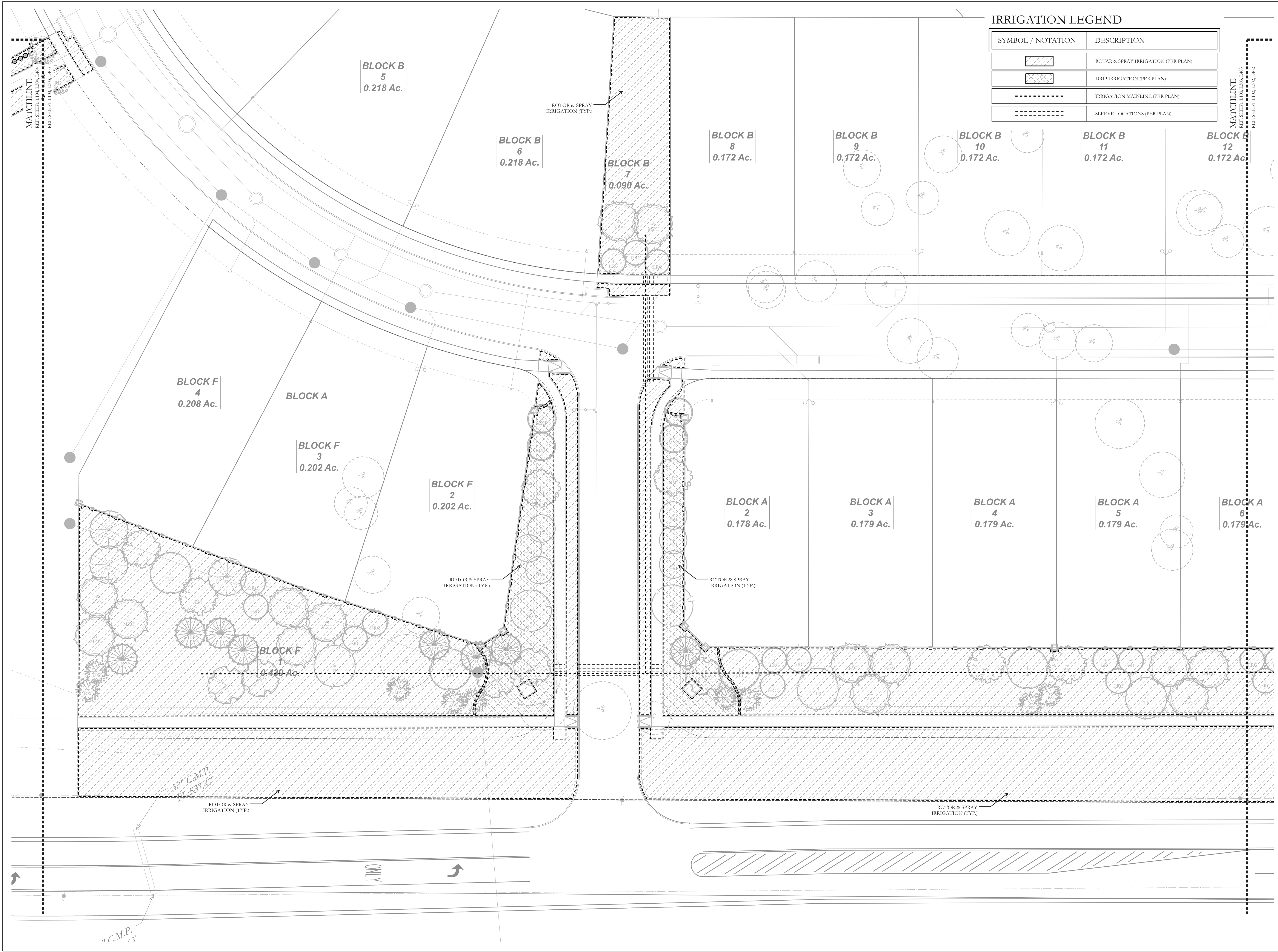
BRUNO LAND DESIGN
 1923 VICTORIA GARDEN DR. RICHMOND, TX 77406
 KYLE@BRUNOLANDDESIGN.COM 409.382.0698

NO.	DATE:	REVISION:
1	08/14/23	ISSUED FOR PERMIT

REGISTERED LANDSCAPE ARCHITECT
 KYLE M. BRUNO
 3211
 STATE OF TEXAS
 08/14/2023

PLAN NORTH
 SCALE 1" = 20'-0"

LANDSCAPE DEVELOPMENT
 Irrigation Plan
 Newhaven Residential Development
 Manor, Travis County TX



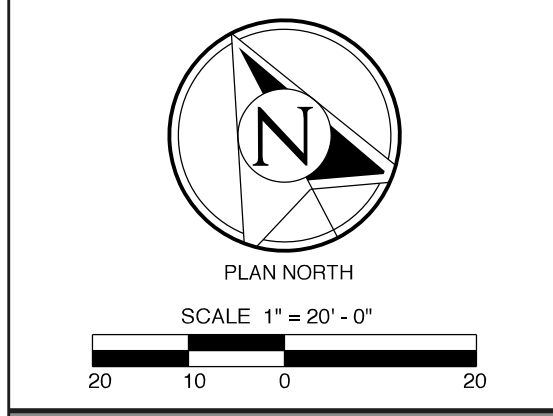
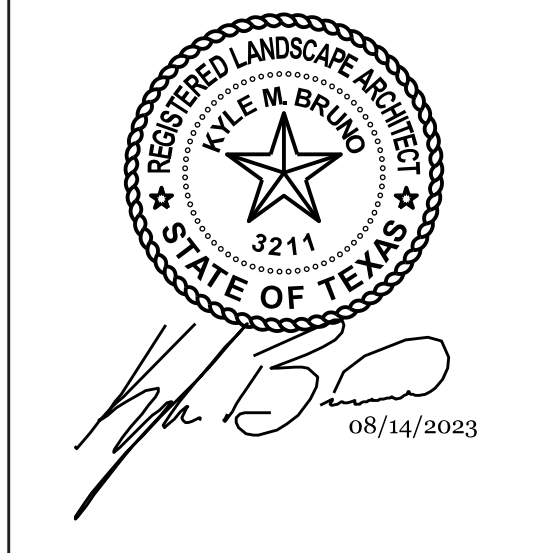
IRRIGATION LEGEND

SYMBOL / NOTATION	DESCRIPTION
	ROTOR & SPRAY IRRIGATION (PER PLAN)
	DRIP IRRIGATION (PER PLAN)
	IRRIGATION MAINLINE (PER PLAN)
	SLEEVE LOCATIONS (PER PLAN)





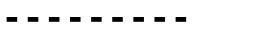
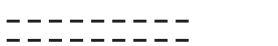
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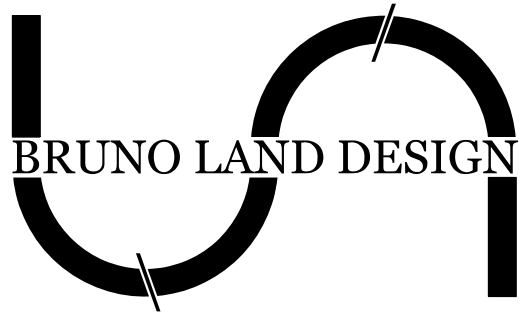
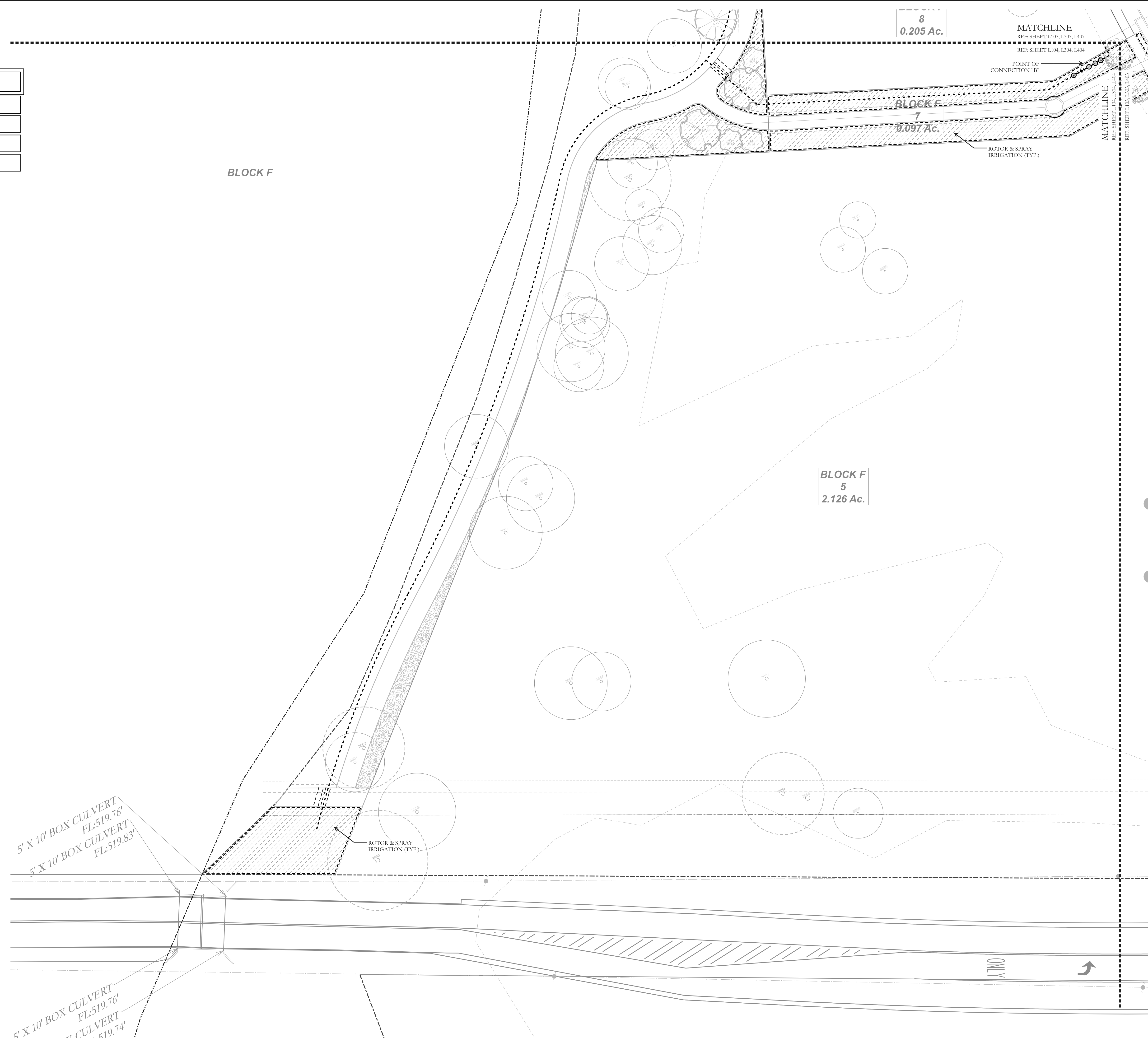
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LANDSCAPE DEVELOPMENT
 Irrigation Plan
 Newhaven Residential Development
 Manor, Travis County TX.

IRRIGATION LEGEND

SYMBOL / NOTATION	DESCRIPTION
	ROTAR & SPRAY IRRIGATION (PER PLAN)
	DRIP IRRIGATION (PER PLAN)
	IRRIGATION MAINLINE (PER PLAN)
	SLEEVE LOCATIONS (PER PLAN)



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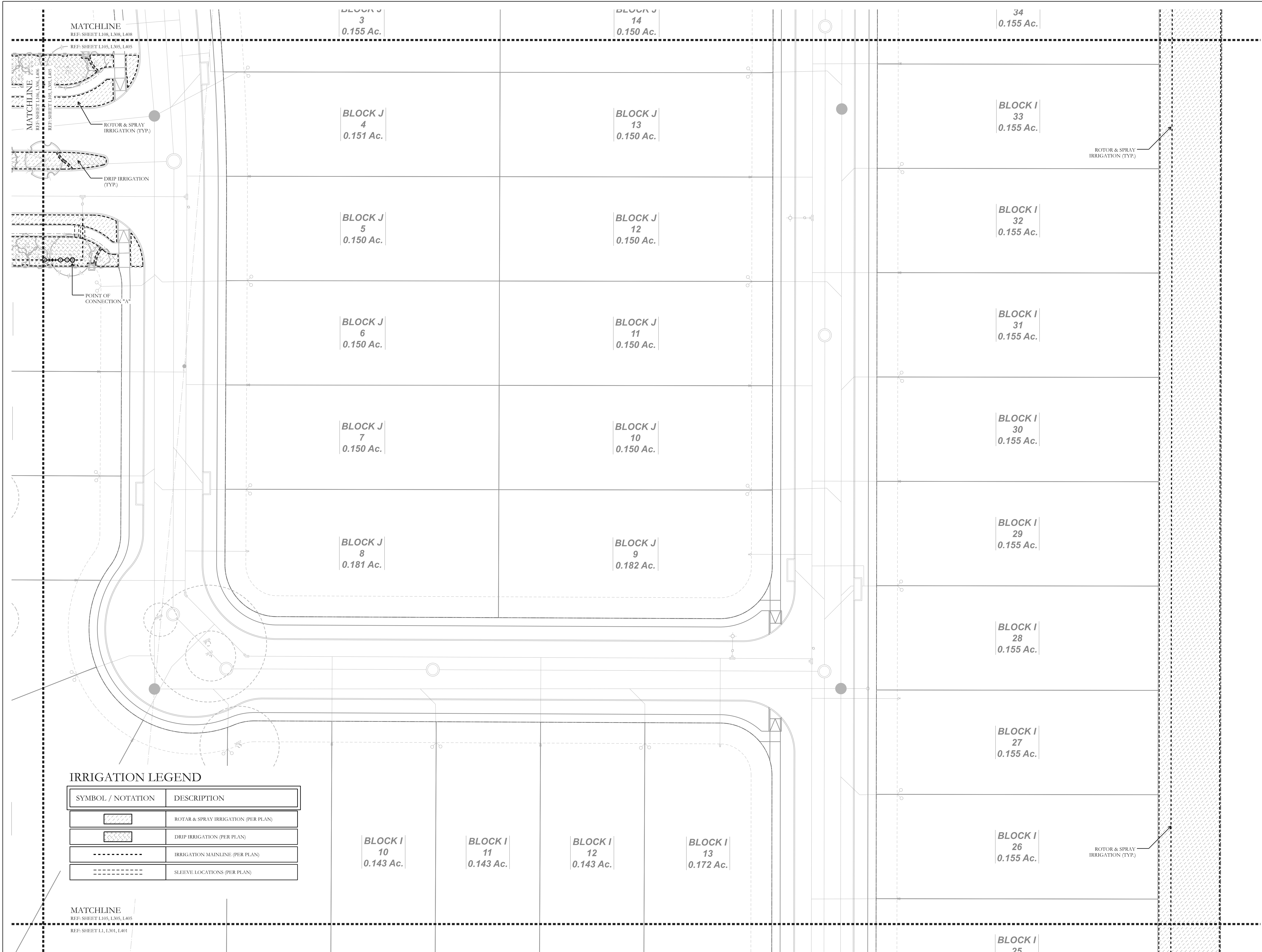
PLAN NORTH
 SCALE 1" = 20'-0"

LANDSCAPE DEVELOPMENT

Irrigation Plan

Newhaven Residential Development

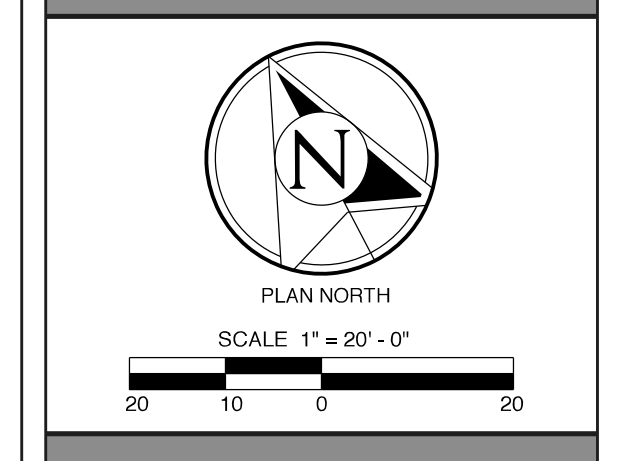
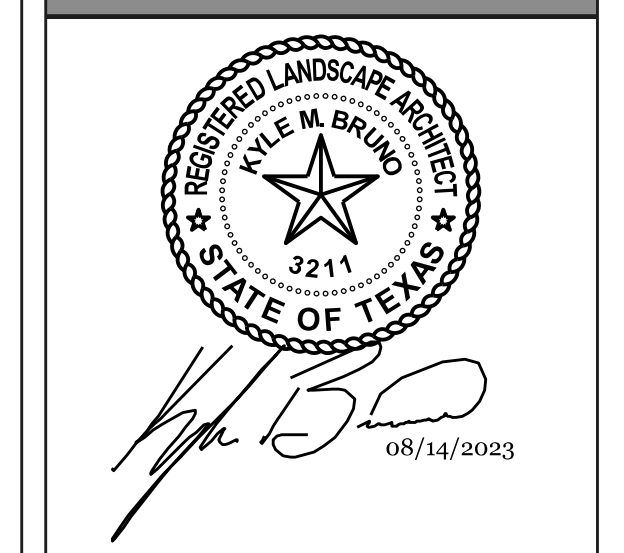
Manor, Travis County TX.



IRRIGATION LEGEND

SYMBOL / NOTATION	DESCRIPTION
	ROTOR & SPRAY IRRIGATION (PER PLAN)
	DRIP IRRIGATION (PER PLAN)
	IRRIGATION MAINLINE (PER PLAN)
	SLEEVE LOCATIONS (PER PLAN)

NO.	DATE	REVISION
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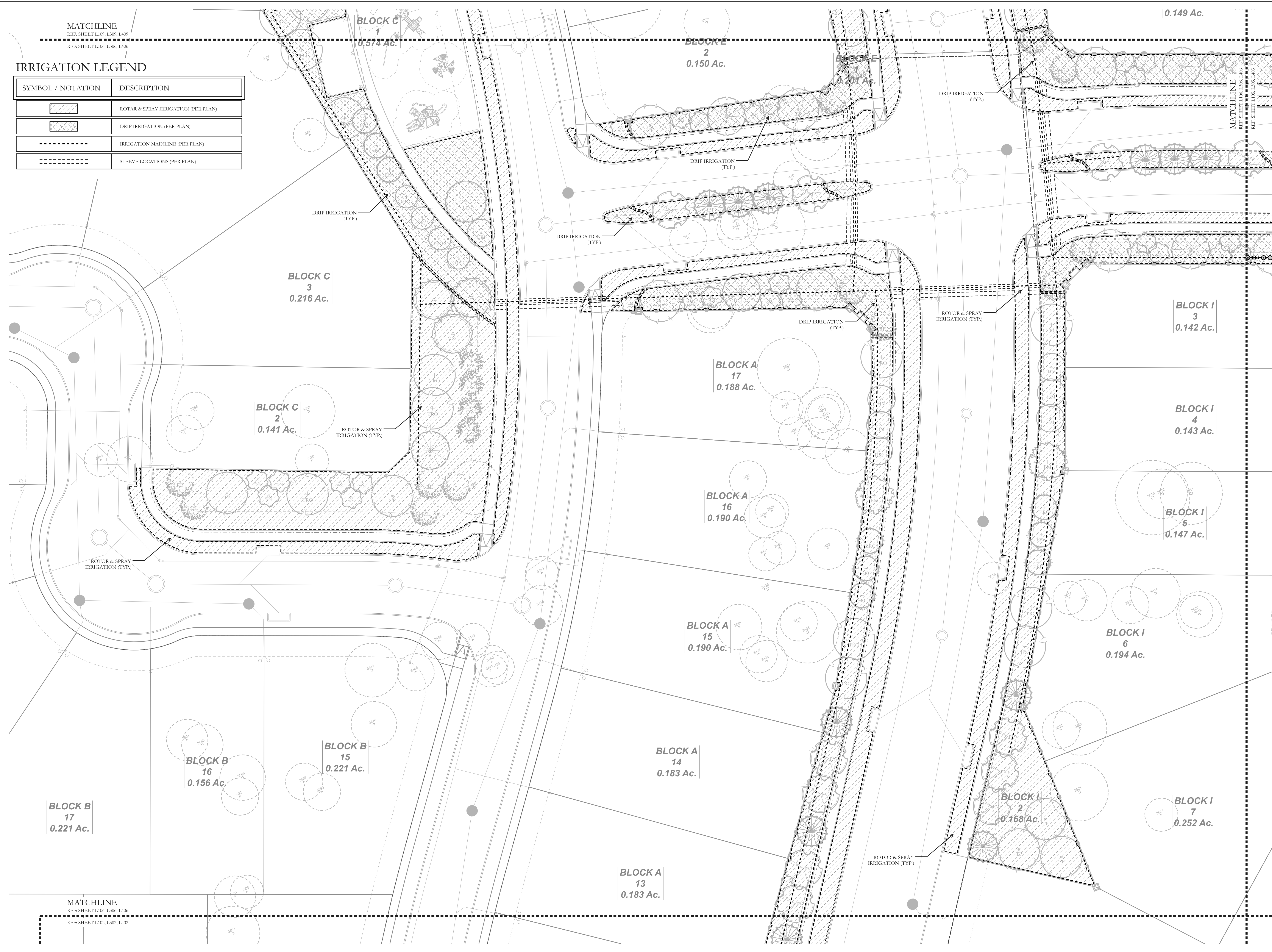


LANDSCAPE DEVELOPMENT
 Irrigation Plan
 Newhaven Residential Development
 Manor, Travis County TX.

MATCHLINE
 REF: SHEET L109, L309, L409
 REF: SHEET L106, L306, L406

IRRIGATION LEGEND

SYMBOL / NOTATION	DESCRIPTION
	ROTOR & SPRAY IRRIGATION (PER PLAN)
	DRIP IRRIGATION (PER PLAN)
	IRRIGATION MAINLINE (PER PLAN)
	SLEEVE LOCATIONS (PER PLAN)

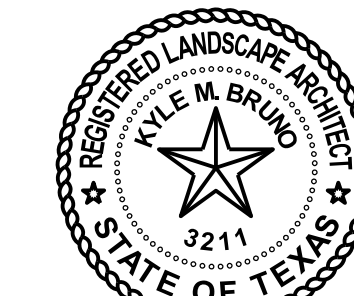


MATCHLINE
 REF: SHEET L106, L306, L406
 REF: SHEET L102, L302, L402

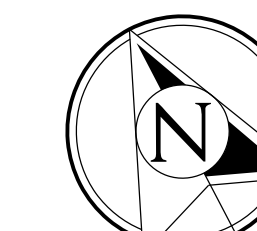


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PLAN NORTH

SCALE 1" = 20'-0"






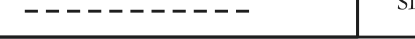
LANDSCAPE DEVELOPMENT

Irrigation Plan

Newhaven Residential Development

Manor, Travis County TX.

IRRIGATION LEGEND

SYMBOL / NOTATION	DESCRIPTION
	ROTAR & SPRAY IRRIGATION (PER PLAN)
	DRIP IRRIGATION (PER PLAN)
	IRRIGATION MAINLINE (PER PLAN)
	SLEEVE LOCATIONS (PER PLAN)



MATCHLINE
REF: SHEET L110, L130, L410
REF: SHEET L107, L307, L407

MATCHLINE
REF: SHEET L107, L307, L407
REF: SHEET L104, L304, L404



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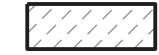


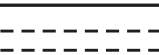


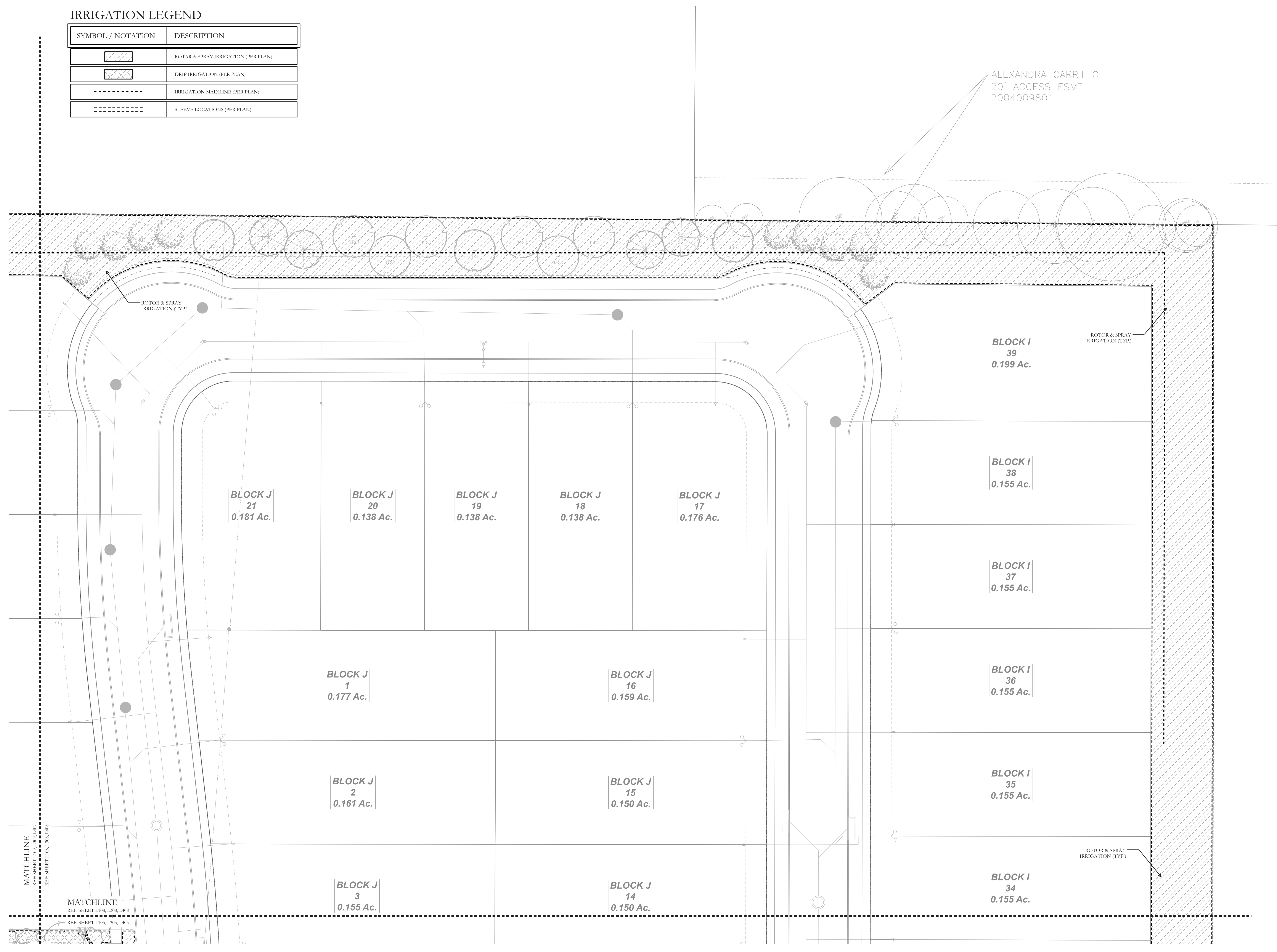
PLAN NORTH

SCALE 1" = 20' - 0"

LANDSCAPE DEVELOPMENT
Irrigation Plan
Newhaven Residential Development
Manor, Travis County TX.

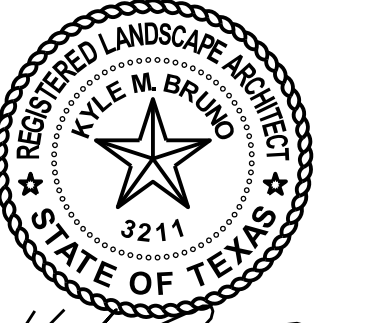
IRRIGATION LEGEND

SYMBOL / NOTATION	DESCRIPTION
	ROTOR & SPRAY IRRIGATION (PER PLAN)
	DRIP IRRIGATION (PER PLAN)
	IRRIGATION MAINLINE (PER PLAN)
	SLEEVE LOCATIONS (PER PLAN)



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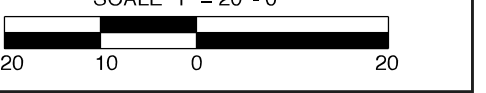
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PLAN NORTH



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Irrigation Plan

Newhaven Residential Development

Manor, Travis County TX.



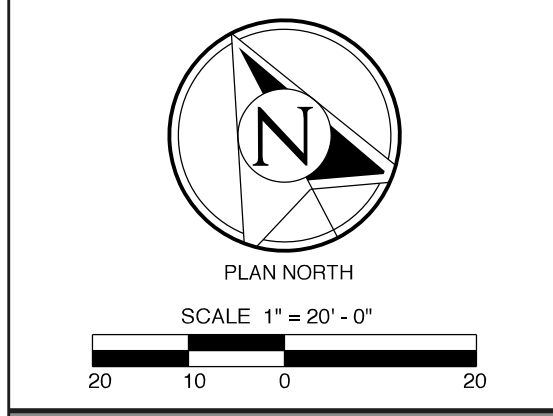
IRRIGATION LEGEND

SYMBOL / NOTATION	DESCRIPTION
	ROTOR & SPRAY IRRIGATION (PER PLAN)
	DRIP IRRIGATION (PER PLAN)
	IRRIGATION MAINLINE (PER PLAN)
	SLEEVE LOCATIONS (PER PLAN)






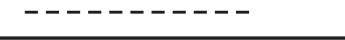
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 Irrigation Plan
 Newhaven Residential Development
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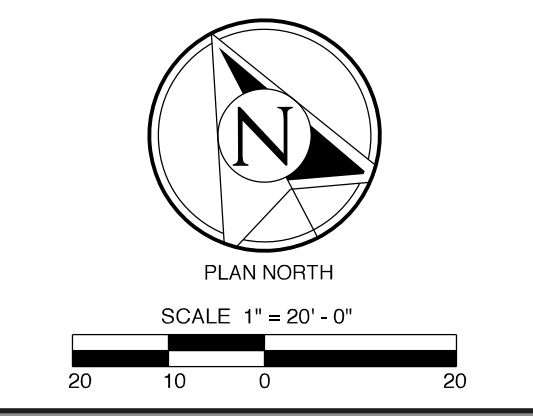
IRRIGATION LEGEND

SYMBOL / NOTATION	DESCRIPTION
	ROTAR & SPRAY IRRIGATION (PER PLAN)
	DRIP IRRIGATION (PER PLAN)
	IRRIGATION MAINLINE (PER PLAN)
	SLEEVE LOCATIONS (PER PLAN)






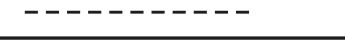
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 Irrigation Plan
 Newhaven Residential Development
 Manor, Travis County TX.

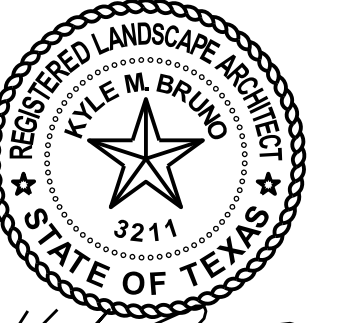
IRRIGATION LEGEND

SYMBOL / NOTATION	DESCRIPTION
	ROTOR & SPRAY IRRIGATION (PER PLAN)
	DRIP IRRIGATION (PER PLAN)
	IRRIGATION MAINLINE (PER PLAN)
	SLEEVE LOCATIONS (PER PLAN)



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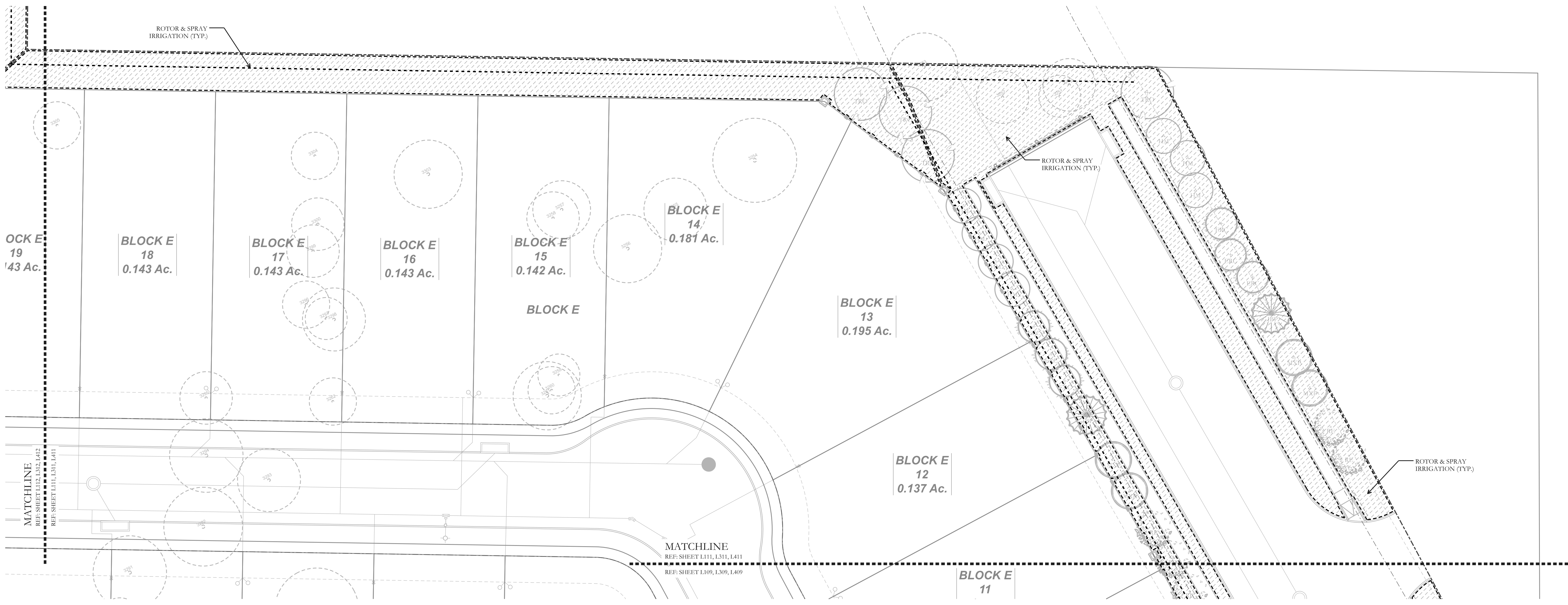
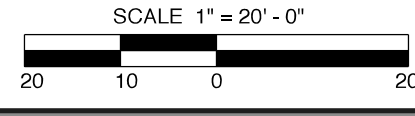
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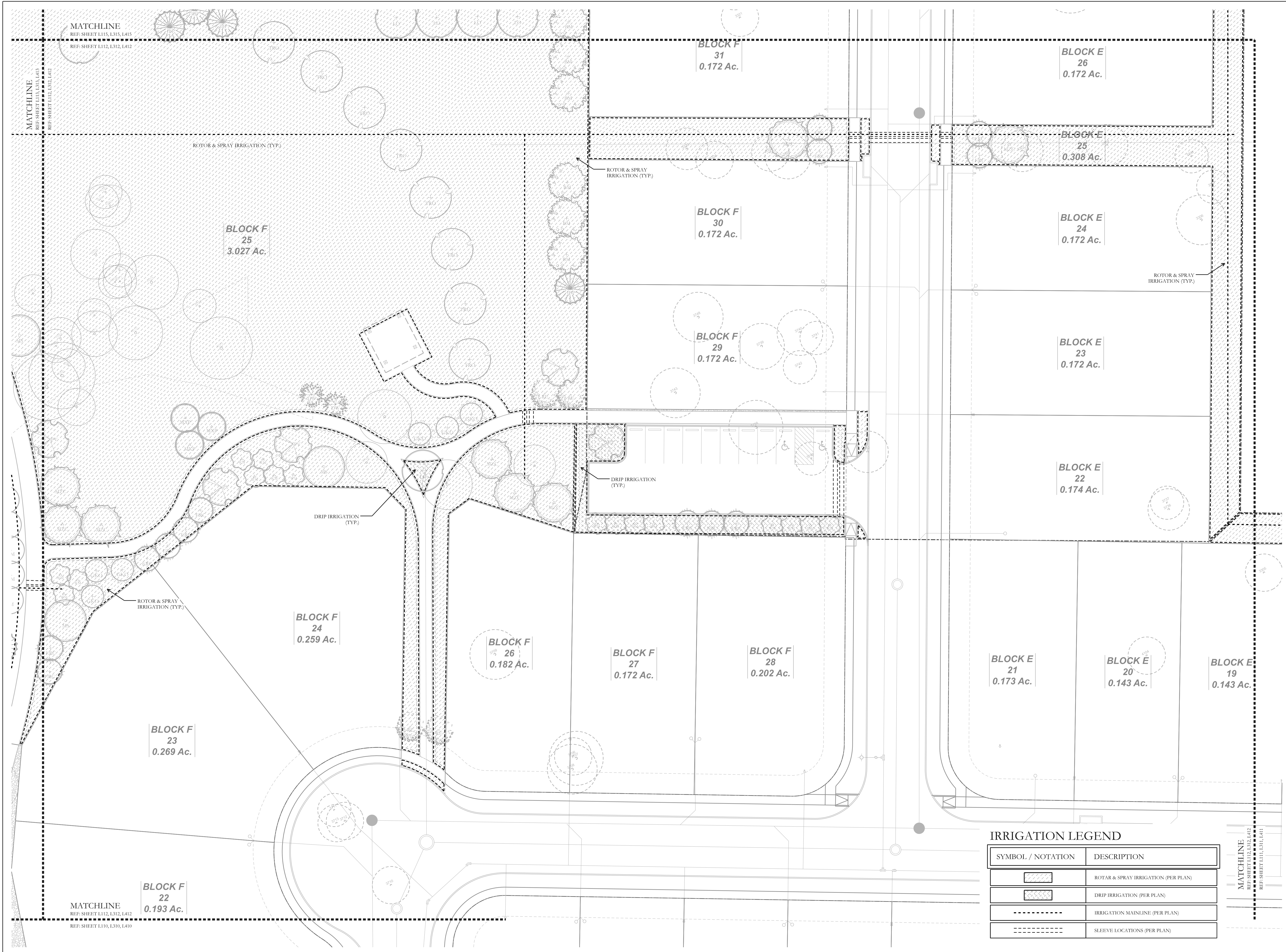
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PLAN NORTH

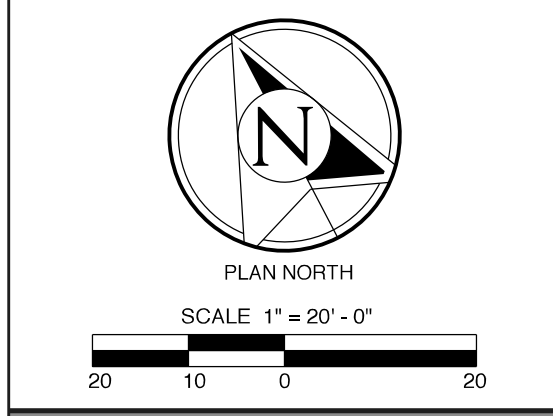


LANDSCAPE DEVELOPMENT
 Irrigation Plan
 Newhaven Residential Development
 Manor, Travis County TX.



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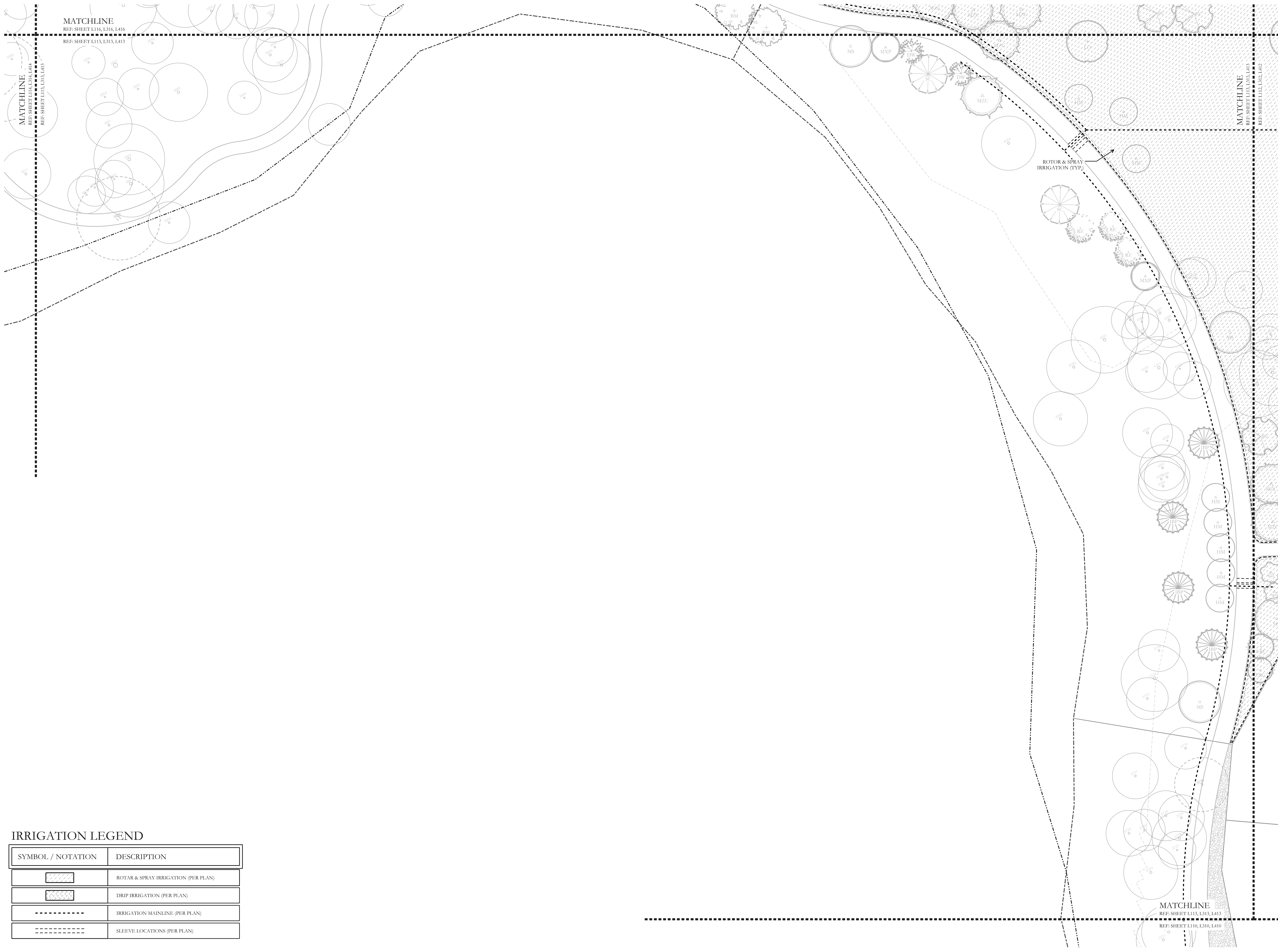
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LANDSCAPE DEVELOPMENT
 Irrigation Plan
 Newhaven Residential Development
 Manor, Travis County TX.

IRRIGATION LEGEND

SYMBOL / NOTATION	DESCRIPTION
	ROTOR & SPRAY IRRIGATION (PER PLAN)
	DRIP IRRIGATION (PER PLAN)
	IRRIGATION MAINLINE (PER PLAN)
	SLEEVE LOCATIONS (PER PLAN)



MATCHLINE
REF: SHEET L116, L136, L416
REF: SHEET L113, L133, L413

MATCHLINE
REF: SHEET L114, L134, L414
REF: SHEET L113, L133, L413

MATCHLINE
REF: SHEET L112, L132, L412
REF: SHEET L113, L133, L413

MATCHLINE
REF: SHEET L113, L133, L413
REF: SHEET L110, L130, L410

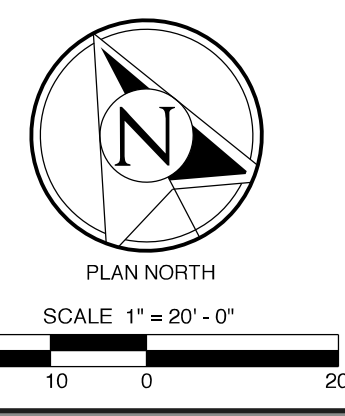
IRRIGATION LEGEND

SYMBOL / NOTATION	DESCRIPTION
	ROTOR & SPRAY IRRIGATION (PER PLAN)
	DRIP IRRIGATION (PER PLAN)
	IRRIGATION MAINLINE (PER PLAN)
	SLEEVE LOCATIONS (PER PLAN)



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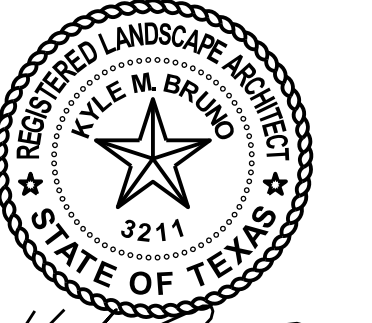


LANDSCAPE DEVELOPMENT
Irrigation Plan
Newhaven Residential Development
Manor, Travis County TX.

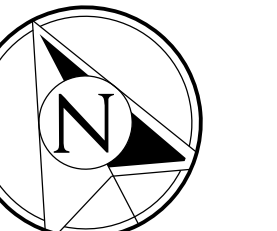


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SCALE 1" = 20'-0"
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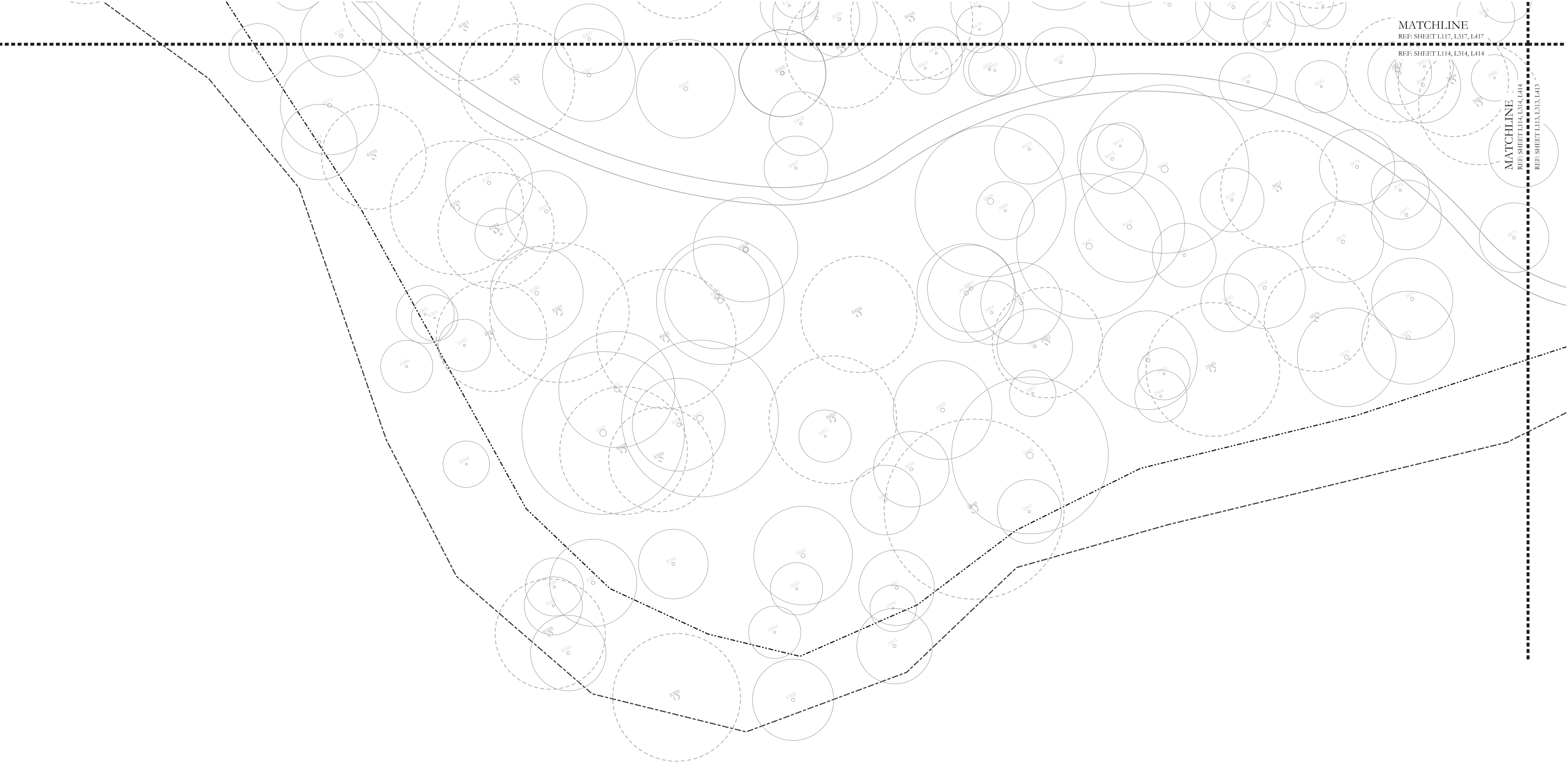
LANDSCAPE DEVELOPMENT

Irrigation Plan

Newhaven Residential Development

Manor, Travis County TX.

SHEET NUMBER:
 Sheet 185 of 195




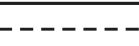


IRRIGATION LEGEND

SYMBOL / NOTATION	DESCRIPTION
	ROTAR & SPRAY IRRIGATION (PER PLAN)
	DRIP IRRIGATION (PER PLAN)
	IRRIGATION MAINLINE (PER PLAN)
	SLEEVE LOCATIONS (PER PLAN)

MATCHLINE
REF: SHEET L118, L138, L418
REF: SHEET L115, L315, L415

IRRIGATION LEGEND

SYMBOL / NOTATION	DESCRIPTION
	ROTOR & SPRAY IRRIGATION (PER PLAN)
	DRIP IRRIGATION (PER PLAN)
	IRRIGATION MAINLINE (PER PLAN)
	SLEEVE LOCATIONS (PER PLAN)

BLOCK G
15
149 Ac.

BLOCK G
16
0.149 Ac.

BLOCK G
17
0.159 Ac.

BLOCK G
18
0.181 Ac.

0.145 Ac.

BLOCK H
5
0.143 Ac.

ROTOR & SPRAY
IRRIGATION (TYP.)

BLOCK H
4
0.143 Ac.

BLOCK G
19
0.146 Ac.

BLOCK G
20
0.165 Ac.

BLOCK H
3
0.143 Ac.

BLOCK G
5
0.172 Ac.

BLOCK G
4
0.172 Ac.

BLOCK G
3
0.172 Ac.

BLOCK G
2
0.172 Ac.

BLOCK G
1
0.186 Ac.

BLOCK F

BLOCK G
21
0.190 Ac.

BLOCK H
2
0.143 Ac.

BLOCK H
1
0.030 Ac.

ROTOR & SPRAY
IRRIGATION (TYP.)

BLOCK H
1
0.036 Ac.

BLOCK E
28
0.172 Ac.

BLOCK F
38
79 Ac.

BLOCK F
37
0.179 Ac.

BLOCK F
36
0.179 Ac.

BLOCK F
35
0.179 Ac.

BLOCK F
34
0.179 Ac.

BLOCK F
33
0.179 Ac.

BLOCK F
32
0.207 Ac.

ROTOR & SPRAY
IRRIGATION (TYP.)

ROTOR & SPRAY
IRRIGATION (TYP.)

MATCHLINE
REF: SHEET L115, L315, L415
REF: SHEET L112, L312, L412

BLOCK F
31
0.172 Ac.

BLOCK E
26

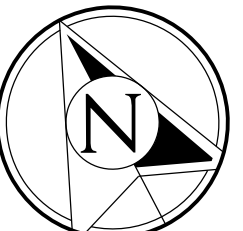


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08/14/2023



PLAN NORTH



LANDSCAPE DEVELOPMENT

Irrigation Plan

Newhaven Residential Development

Manor, Travis County TX.

SHEET NUMBER:
Sheet 186 of 195



MATCHLINE
REF: SHEET L119, L139, L419
REF: SHEET L116, L136, L416

MATCHLINE
REF: SHEET L117, L137, L417
REF: SHEET L114, L134, L414

MATCHLINE
REF: SHEET L116, L136, L416
REF: SHEET L113, L133, L413

BLOCK G
10
0.176 Ac.

BLOCK F
48
0.224 Ac.

BLOCK G
9
0.152 Ac.

BLOCK F
47
0.153 Ac.

BLOCK G
8
0.165 Ac.

BLOCK F
46
0.153 Ac.

BLOCK G
7
0.190 Ac.

BLOCK F
45
0.149 Ac.

BLOCK G
6
0.189 Ac.

BLOCK G
5
0.172 Ac.

BLOCK F
44
0.148 Ac.

BLOCK F
43
0.186 Ac.

ROTOR & SPRAY
IRRIGATION (TYP.)

BLOCK F
41
0.188 Ac.

BLOCK F
40
0.179 Ac.

BLOCK F
39
0.179 Ac.

BLOCK F
38
0.179 Ac.

ROTOR & SPRAY
IRRIGATION (TYP.)

IRRIGATION LEGEND

SYMBOL / NOTATION	DESCRIPTION
	ROTOR & SPRAY IRRIGATION (PER PLAN)
	DRIP IRRIGATION (PER PLAN)
	IRRIGATION MAINLINE (PER PLAN)
	SLEEVE LOCATIONS (PER PLAN)

MATCHLINE
REF: SHEET L118, L138, L418
REF: SHEET L115, L135, L415

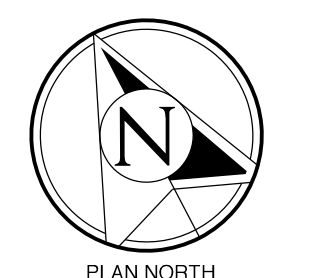


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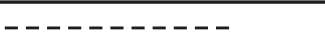
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SCALE 1" = 20'-0"

LANDSCAPE DEVELOPMENT
Irrigation Plan
Newhaven Residential Development
Manor, Travis County TX.

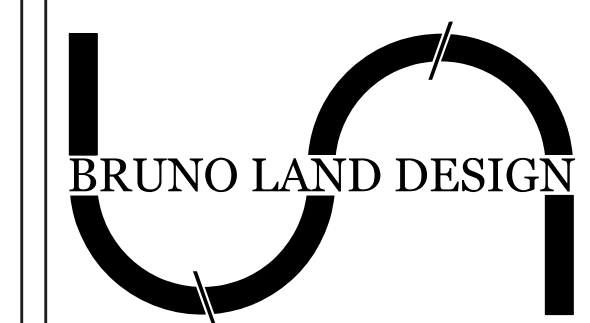
IRRIGATION LEGEND

SYMBOL / NOTATION	DESCRIPTION
	ROTAR & SPRAY IRRIGATION (PER PLAN)
	DRIP IRRIGATION (PER PLAN)
	IRRIGATION MAINLINE (PER PLAN)
	SLEEVE LOCATIONS (PER PLAN)

MATCHLINE
REF: SHEET L120, L120, L120
REF: SHEET L117, L317, L417

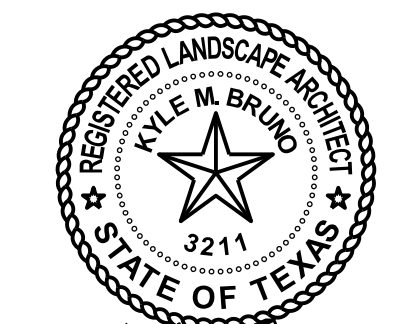
MATCHLINE
REF: SHEET L114, L314, L414
REF: SHEET L116, L316, L416

BLOCK F
42
12.599 Ac.

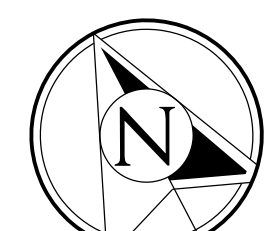


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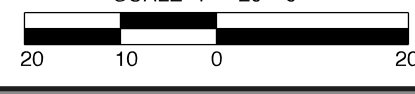
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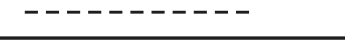
PLAN NORTH



LANDSCAPE DEVELOPMENT
Irrigation Plan
Newhaven Residential Development
Manor, Travis County TX

SHEET NUMBER:
Sheet 188 of 195

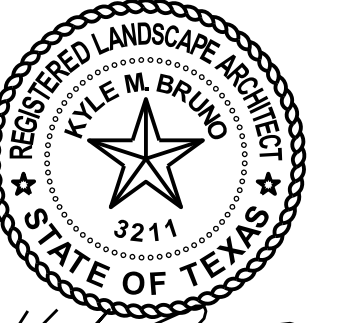
IRRIGATION LEGEND

SYMBOL / NOTATION	DESCRIPTION
	ROTOR & SPRAY IRRIGATION (PER PLAN)
	DRIP IRRIGATION (PER PLAN)
	IRRIGATION MAINLINE (PER PLAN)
	SLEEVE LOCATIONS (PER PLAN)



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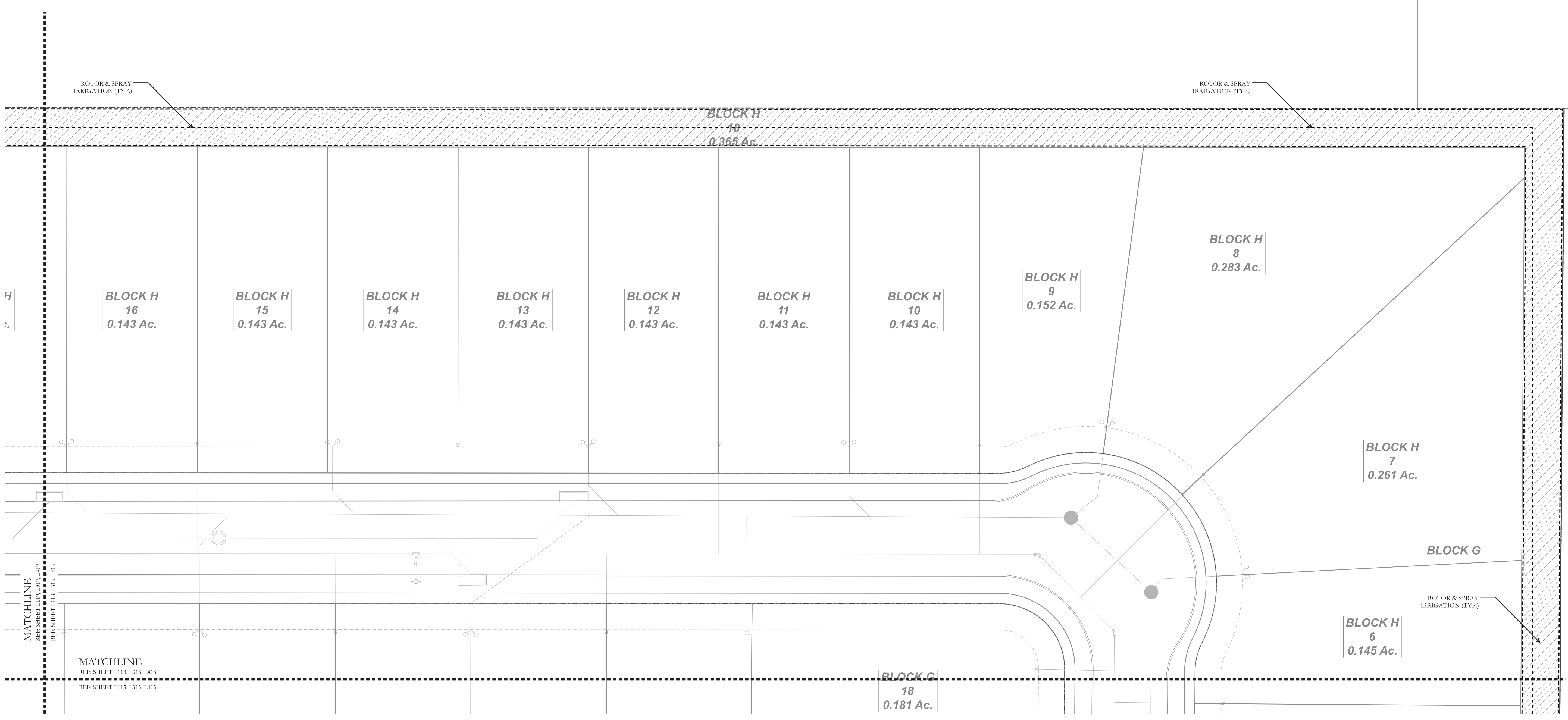
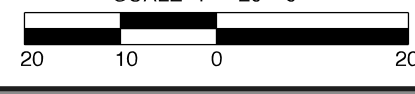
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 08/14/2023




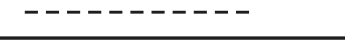


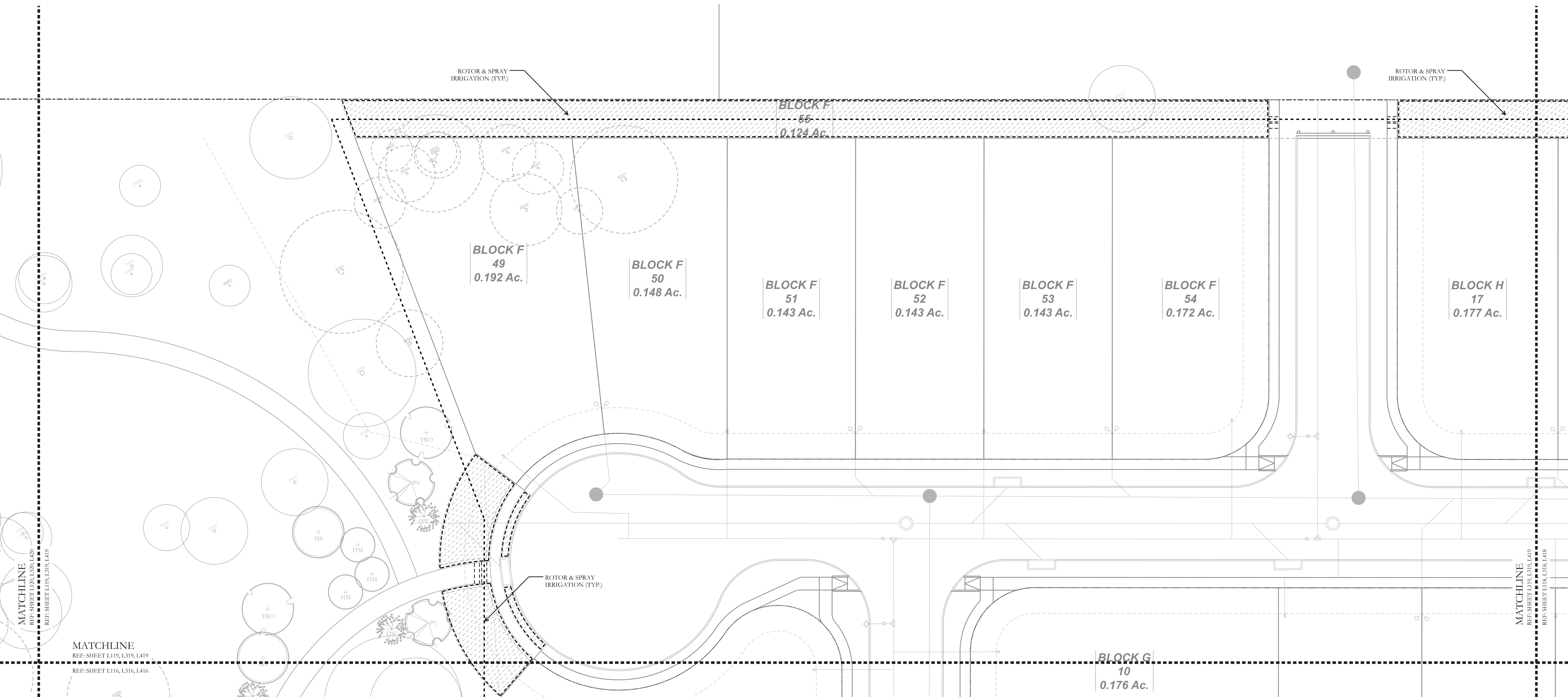
PLAN NORTH



LANDSCAPE DEVELOPMENT
 Irrigation Plan
 Newhaven Residential Development
 Manor, Travis County TX.

IRRIGATION LEGEND

SYMBOL / NOTATION	DESCRIPTION
	ROTOR & SPRAY IRRIGATION (PER PLAN)
	DRIP IRRIGATION (PER PLAN)
	IRRIGATION MAINLINE (PER PLAN)
	SLEEVE LOCATIONS (PER PLAN)



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PLAN NORTH
 SCALE 1" = 20'-0"
 20 10 0 20




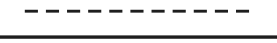
LANDSCAPE DEVELOPMENT

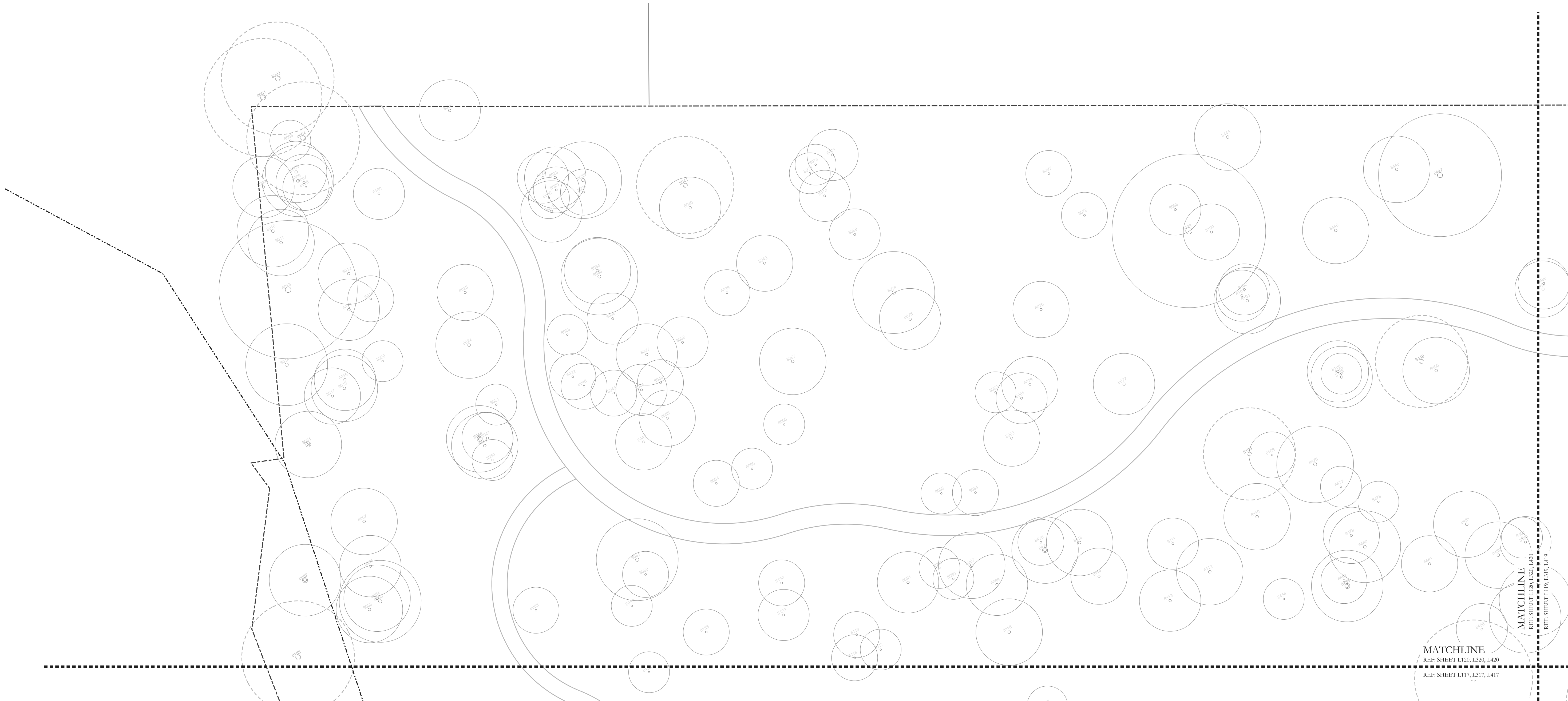
Irrigation Plan

Newhaven Residential Development

Manor, Travis County TX.

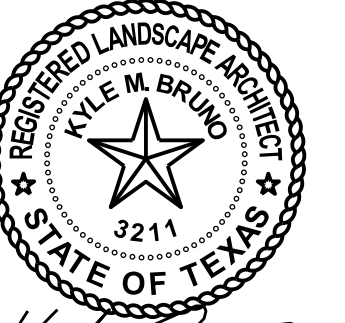
IRRIGATION LEGEND

SYMBOL / NOTATION	DESCRIPTION
	ROTAR & SPRAY IRRIGATION (PER PLAN)
	DRIP IRRIGATION (PER PLAN)
	IRRIGATION MAINLINE (PER PLAN)
	SLEEVE LOCATIONS (PER PLAN)



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Kyle M. Bruno
 08/14/2023



SCALE 1" = 20'-0"

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Irrigation Plan

Newhaven Residential Development

Manor, Travis County TX.

HYDRAULIC CALCULATION NOTES

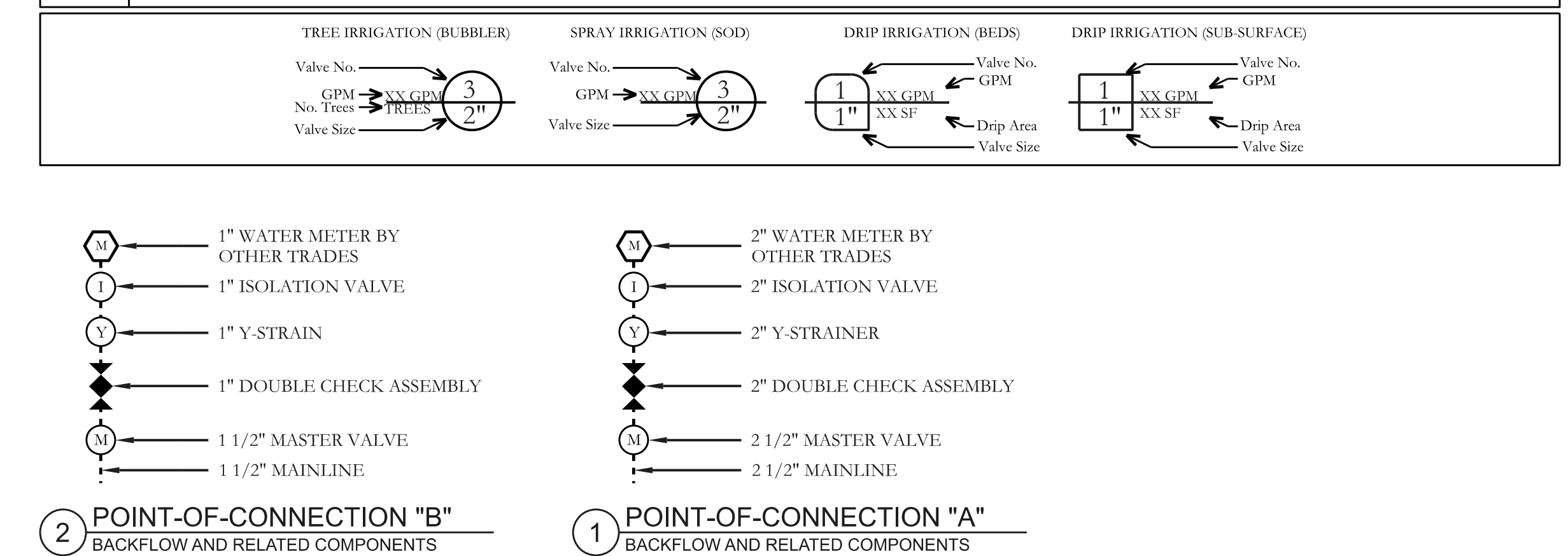
TEN DAYS PRIOR TO COMMENCING WORK, VERIFY STATIC PRESSURE OF 55 PSI. IF STATIC PRESSURE IS LESS THAN THE ASSUMED STATIC PRESSURE DO NOT START WORK UNTIL NOTIFIED IN WRITING TO PROCEED BY OWNER. IF CONTRACTOR PROCEEDS WITH WORK WITHOUT AUTHORIZATION FROM OWNER, THE CONTRACTOR SHALL BE FINANCIALLY RESPONSIBLE TO CORRECT, MODIFY OR REPAIR ANY ITEMS OR MATERIALS THAT MAY BE REQUIRED TO PROVIDE A FULLY FUNCTIONING AND OPERATIONAL IRRIGATION SYSTEM IN COMPLIANCE WITH THE PLANS AND SPECIFICATIONS. HYDRAULIC CALCULATIONS FOR THIS SYSTEM ARE BASED ON THE STATIC PRESSURE AS STATED ABOVE. THE STATIC PRESSURE SHOWN IS AN ASSUMED PRESSURE, A PRESSURE MEASURED AT THE SITE, OR AN ESTIMATED PRESSURE PROVIDED BY THE COUNTY OR CITY. THE OWNER UNDERSTANDS THIS PROJECT MAY NOT PROVIDE 100% COVERAGE AT ALL TIMES.

HYDRAULIC CALCULATION POINT-OF-CONNECTION "A" (FARTHEST HEAD)			
ITEM	SIZE	PSI	NOTES
SERVICE	2"	0.00	TYPE "K" COPPER 10 L.N. FT. (00.00 GPM)
WATER METER	2"	0.00	(00.00 GPM)
BALL VALVE	2"	1.00	(00.00 GPM)
Y-FILTER	2"	0.00	(00.00 GPM)
BACKFLOW PREVENTER	2"	0.00	(00.00 GPM)
MASTER VALVE	2 1/2"	0.00	(00.00 GPM)
MAIN LINE	2 1/2"	0.00	000 LINEAR FEET (00.00 GPM)
ZONE VALVE (#)	1"	0.00	(00.00 GPM)
LATERAL PIPING	3/4" - 1"	0.00	
ELEVATION	N/A	0.00	INCREASE 00 FEET
CRITICAL HEAD	N/A	0.00	
TOTAL LOSS		(-)00.00	
ASSUMED STATIC PRESSURE		80.00	
PRESSURE DIFFERENTIAL		(-)00.00	

HYDRAULIC CALCULATION POINT-OF-CONNECTION "B" (FARTHEST HEAD)			
ITEM	SIZE	PSI	NOTES
SERVICE	1"	0.00	TYPE "K" COPPER 10 L.N. FT. (00.00 GPM)
WATER METER	1"	0.00	(00.00 GPM)
BALL VALVE	1"	1.00	(00.00 GPM)
Y-FILTER	1"	0.00	(00.00 GPM)
BACKFLOW PREVENTER	1"	0.00	(00.00 GPM)
MASTER VALVE	1 1/2"	0.00	(00.00 GPM)
MAIN LINE	1 1/2"	0.00	000 LINEAR FEET (00.00 GPM)
ZONE VALVE (#)	1"	0.00	(00.00 GPM)
LATERAL PIPING	3/4" - 1"	0.00	
ELEVATION	N/A	0.00	INCREASE 00 FEET
CRITICAL HEAD	N/A	0.00	
TOTAL LOSS		(-)00.00	
ASSUMED STATIC PRESSURE		80.00	
PRESSURE DIFFERENTIAL		(-)00.00	

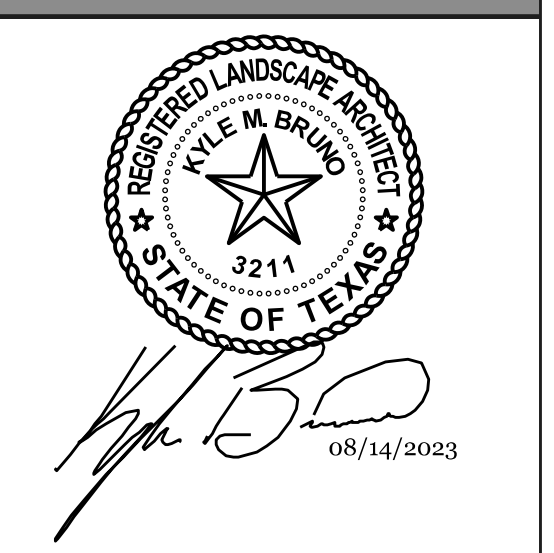
IRRIGATION LEGEND AND SCHEDULE

SYM	DESCRIPTION	MANUFACTURER	MODEL	SIZE / NOZZLE	NOTES
Ⓢ	AUTOMATIC CONTROLLER	HUNTER	ICORE-600-PL ACC-99D	N/A	INSTALL PER MANUFACTURER'S STANDARDS. CONTROLLER "A" - ICORE-48-M CONTROLLER "B" - ACC-99D CONTROLLER "C" - PRO-C12
Ⓡ	RAIN SENSOR	HUNTER	SOLAR-SYNC-SEN	N/A	INSTALL PER MANUFACTURER'S STANDARDS.
Ⓢ	DRIP IRRIGATION CONTROL VALVE	HUNTER	ICZ-101	1"	INSTALL PER DETAIL IN JUMBO VALVE BOX w/ BOLT DOWN LID. ROUT AND PAINT VALVE NUMBER ON LID.
Ⓢ	DRIP IRRIGATION (LANDSCAPE BEDS)	HUNTER	HDL-06-18	N/A	INSTALL PER DETAIL w/ 40 PSI AT OUTFLOW OF DRIP ZONE VALVE.
Ⓢ	DRIP IRRIGATION CONTROL VALVE (SUB-SURFACE)	HUNTER	ICZ-101	1"	INSTALL PER DETAIL IN JUMBO VALVE BOX w/ BOLT DOWN LID. ROUT AND PAINT VALVE NUMBER ON LID.
Ⓢ	DRIP IRRIGATION (TURF BEDS)	HUNTER	HDL-06-12	N/A	INSTALL PER DETAIL w/ 40 PSI AT OUTFLOW OF DRIP ZONE VALVE.
Ⓢ	TEMPORARY IRRIGATION	N/A	N/A	N/A	BY OTHER
N/A	TREE BUBBLERS	HUNTER	AFB	1.00 GPM	INSTALL PER MANUFACTURER'S DETAIL. REFER TO TREE BUBBLER DETAIL.
Ⓢ	REMOTE CONTROL VALVE	HUNTER	ICV-101G ICV-151G ICV-201G	Refer to Plan for Size	INSTALL PER DETAIL IN 10" ROUND PENTEK VALVE BOX WITH BOLT DOWN LID. ROUT AND PAINT VALVE NUMBER ON LID.
Ⓢ	PRO ADJ SPRAY	HUNTER	PRO ADJ SPRAY	4A, 6A, 8A, 10A 12A, 15A, 17A	INSTALL PER DETAIL w/ 30 PSI AT BASE OF HEAD. INSTALL HUNTER SJ-712 SWING JOINTS ON ALL SPRAY BODIES. INSTALL NOZZLES ON PROS-04-PRS40 SPRAY BODIES.
Ⓢ	PRO SPRAY STRIP	HUNTER	STIP PATTERN NOZZLES	LCS-515, RCS-151, SS-530, ES-515, CS-530, SS-918	INSTALL PER DETAIL w/ 30 PSI AT BASE OF HEAD. INSTALL HUNTER SJ-712 SWING JOINTS ON ALL SPRAY BODIES. INSTALL NOZZLES ON 4" PRS40 OR 12" PROS-12 SPRAY BODIES.
Ⓢ	LAWN PGP ROTOR	HUNTER	PGP ROTOR	Refer to Plan for Nozzle Number	INSTALL PER DETAIL w/ 50 PSI AT BASE OF HEAD INSTALL HUNTER SJ-712 SWING JOINTS ON ALL ROTORS ADJUSTABLE ARC WITH RED NOZZLE RACK.
Ⓢ	LAWN PGJ ROTOR	HUNTER	PGJ ROTOR	Refer to Plan for Nozzle Number	INSTALL PER DETAIL w/ 50 PSI AT BASE OF HEAD INSTALL HUNTER SJ-712 SWING JOINTS ON ALL ROTORS ADJUSTABLE ARC WITH RED NOZZLE RACK.
Ⓢ	LAWN PGP LOW ANGLE ROTOR	HUNTER	PGP LOW ANGLE ROTOR	Refer to Plan for Nozzle Number	INSTALL PER DETAIL w/ 50 PSI AT BASE OF HEAD INSTALL HUNTER SJ-712 SWING JOINTS ON ALL ROTORS ADJUSTABLE ARC WITH RED NOZZLE RACK.
Ⓢ	WATER METER	---	PER CITY	Refer to Plan for Size	INSTALLED BY GENERAL CONTRACTOR
Ⓢ	DOUBLE CHECK VALVE	Febco	850-BV Series	Refer to Plan for Size	FURNISH AND INSTALL PER LOCAL CODE BY LICENSED IRRIGATION CONTRACTOR.
Ⓢ	ISOLATION VALVE	Nibco	*T-113	Line Size	INSTALL PER DETAIL IN 12"x17" PENTEK VALVE BOX WITH BOLT DOWN LID.
Ⓢ	Y-STRAINER	Febco	*LF650A	Refer to Plan for Size	INSTALL PER DETAIL IN 12"x17" PENTEK VALVE BOX WITH BOLT DOWN LID.
Ⓢ	MASTER VALVE	Hunter	ICV-151G	Refer to Plan for Size	INSTALL PER DETAIL IN 12"x17" PENTEK VALVE BOX WITH BOLT DOWN LID.
Ⓢ	IRRIGATION SLEEVE	---	SCH. 40 w/ 12 GA. PULL WIRE IN SLEEVE	Refer to Plan for Size	DRIVEWAY SLEEVES INSTALLED BY GENERAL CONTRACTOR. SIDEWALK SLEEVES INSTALLED BY IRRIGATION CONTRACTOR.
Ⓢ	IRRIGATION MAIN LINE	---	SCH. 40	Refer to Plan for Size	18" INSTALLATION DEPTH.
Ⓢ	IRRIGATION LATERAL LINE	---	CLASS 200	Refer to Plan for Size	12" INSTALLATION DEPTH STANDARD. 18" INSTALLATION DEPTH UNDER PAVING.
Ⓢ	DRIP IRRIGATION ZONE IDENTIFIER (GRAPHIC USE ONLY)				



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LANDSCAPE DEVELOPMENT
Irrigation Schedule & Calculations
Newhaven Residential Development
Manor, Travis County TX.

IRRIGATION NOTES

IRRIGATION NOTES AND SPECIFICATIONS

1. THIS IRRIGATION DESIGN IS BASED ON THE _____ PLAN RECEIVED ON _____. THE MOST RECENT REVISION ON THESE _____ IRRIGATION CONTRACTOR TO REFER TO THE SPECIFIED PLANS TO COORDINATE ALL SYSTEM COMPONENT LOCATIONS.
2. IRRIGATION CONTRACTOR MUST:
 - 2.1. PROVIDE A COMPLETE, FUNCTIONING AUTOMATIC IRRIGATION SYSTEM INCLUDING LABOR, MATERIALS, FEES, TAXES, EQUIPMENT, AND OTHER COSTS INCIDENTAL TO ACCOMPLISHING WORK.
 - 2.2. BE LICENSED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) AS A LICENSED TEXAS IRRIGATOR.
 - 2.2.1. ADDITIONAL CERTIFICATION FROM THE IRRIGATION ASSOCIATION AS A CERTIFIED IRRIGATION CONTRACTOR IS PREFERRED.
 - 2.3. HOLD CURRENT LICENSES/CERTIFICATIONS THAT ARE IN GOOD STANDING.
 - 2.4. ACQUIRE WRITTEN APPROVAL FROM THE LICENSED IRRIGATOR FOR MATERIAL SUBSTITUTES PRIOR TO BEGINNING INSTALLATION.
3. ALL STATE OF TEXAS LAWS/RULES AND ALL LOCAL CODES/ORDINANCES AREA MADE PART OF THESE PLANS AND SPECIFICATIONS WHETHER SHOWN OR NOT. THESE LAWS AND ORDINANCES WILL SUPERSEDE THE PLANS, DETAILS, AND/OR SPECIFICATIONS FOR THIS PROJECT. THE IRRIGATION CONTRACTOR IS CAUTIONED THAT THE SHE IS TO INCLUDE ANY AND ALL COST NECESSARY TO MEET OR EXCEED THE LAWS OF THE STATE OF TEXAS AND LOCAL CODES CONCERNING LANDSCAPE IRRIGATION.
4. ALL PRODUCTS SHOULD BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL CABLES, CONDUITS, PIPING, AND ANY OTHER UTILITIES OR STRUCTURES THAT MAY BE ENCOUNTERED EITHER ABOVE OR BELOW GROUND. ALL NECESSARY PRECAUTIONS MUST BE TAKEN BY THE CONTRACTOR TO PREVENT ANY DAMAGE TO THESE EXISTING UTILITIES AND IMPROVEMENTS. IN THE EVENT THAT SUCH DAMAGE SHOULD OCCUR FROM THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR SHALL REPAIR OR REPLACE DAMAGED UTILITIES TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL EXPENSE TO THE OWNER.
6. FOR ALL LIGHT AND SIGNALING APPLICATIONS, IN ORDER TO PROVIDE CORRECT SIGNALS, IRRIGATION CONTRACTOR MUST CALL (800) DIG-TISS AND IS RESPONSIBLE FOR LOCATING EXISTING UNDERGROUND UTILITIES AND/OR OBSTACLES PRIOR TO BEGINNING WORK. ANY DAMAGE TO UTILITIES AND/OR FINISHES FROM INFERIOR WORKMANSHIP BY THE IRRIGATION CONTRACTOR SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
7. IRRIGATION PLANS ARE DESIGNED ACCORDING TO THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) SUBCHAPTER F STANDARDS FOR DESIGNING, INSTALLING, AND MAINTAINING LANDSCAPE IRRIGATION SYSTEMS (34-60-344-65)

WORK

1. THE SCOPE OF WORK FOR THIS PROJECT IS SHOWN IN THE PLANS, NOTES, SCHEDULE AND DETAILS.
2. ALL WORK SPECIFIED ON THIS PLAN REQUIRES PROVIDING ALL COMPONENTS NECESSARY FOR IRRIGATION SYSTEM INSTALLATION AND TESTING IN ORDER TO PROVIDE AN EFFICIENT AND OPERATIONAL IRRIGATION SYSTEM THAT COMPLIES WITH IRRIGATION PLAN, SPECIFICATIONS, SCHEDULE, AND DETAILS. THIS INCLUDES, BUT IS NOT LIMITED TO, PROVIDING ALL REQUIRED MATERIALS (I.E. BACKFLOW PREVENTERS, PUMPS, PIPES, VALVES, FITTINGS, CONTROLLERS, WIRING, GROUNDING, GLUE, ETC.), LAYOUT PIPE, PRIOR TO INSTALLATION; PROVIDE PUBLIC PROTECTION, AND ASSEMBLY, INSTALLATION AND TESTING OF ALL PIPE, FITTINGS, VALVES, SPRINKLER HEADS, CONTROL VALVES, BACKFLOW PREVENTERS, INLET AND DISCHARGE PIPING, MANUAL DRAIN VALVES, VALVE BOXES, WATER METERS AND ALL OTHER PERTINENT COMPONENTS AS SPECIFIED. THE CONTRACTOR SHALL PERFORM ALL TRENCHING, EXCAVATING, BORING, BACKFILLING, COMPACTING CONCRETE INSTALLATION, ELECTRICAL WORK, CLEAN-UP AND ANY OTHER WORK NECESSARY TO COMPLETE THE PROJECT.
3. ALL IRRIGATED AREAS ARE DESIGNED TO PROVIDE 100% COVERAGE USING FULLY AUTOMATIC IRRIGATION SYSTEM COMPLETE WITH RAIN/FREEZE SENSORS. THE RAIN/FREEZE SENSORS SHOULD BE INSTALLED IN AN UNOBTURGED AREA APPROVED BY OWNER.
4. IRRIGATION DESIGN IS BASED ON TYPICAL DESIGN CONCERNS AND PUBLIC SAFETY.
5. PIPING IS DIAGRAMMATIC AND SHOWN FOR CLARITY ONLY. ADJUST AS REQUIRED FOR EXISTING UTILITIES, OBSTRUCTIONS, TREE ROOT BALLS, ETC. PIPING AND VALVES SHOWN IN PAVING FOR CLARITY ONLY AND SHALL BE INSTALLED IN ADJACENT LANDSCAPE AREA WITHIN PROPERTY LINES. COORDINATE WITH THE CITY OR ENTITY INSPECTING THE IRRIGATION SYSTEM AND DETERMINE THE LOCAL RULES AND CODES TO ABIDE BY REGARDING MAINLINE AND LATERAL PIPING LOCATIONS.
6. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND/OR REPLACEMENT OF ALL ITEMS DAMAGED BY THEIR WORK.
7. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO PLANT MATERIAL DUE TO SYSTEM FAILURE FROM INFERIOR WORKMANSHIP FOR THE DURATION OF THE INSTALLATION OF PLANT MATERIAL AND MAINTENANCE PERIOD FOLLOWING INSTALLATION.
8. THE IRRIGATION CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE IRRIGATION SYSTEM WITH THE LANDSCAPE CONTRACTOR TO ENSURE ALL PLANT MATERIAL WILL BE WATERED IN ACCORDANCE WITH THE SPECIFICATIONS.
9. THE IRRIGATION CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIAL NECESSARY TO HAND DIG WITHIN ALL EXISTING TREE DRIPLINE ZONES AT NO ADDITIONAL COST TO THE OWNER. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE TO STAKE AND RECEIVE APPROVAL FROM ALL ADJACENT OWNERS AND ADJACENT PROPERTIES AND TO OBTAIN APPROVAL IN AREAS OF EXISTING TREE COVERAGE OR ANY ADDITIONAL AREAS THAT MIGHT BE QUESTIONABLE.
10. ALL MATERIAL SHALL BE THE BRANDS AND TYPES NOTED ON THE PLAN OR AS SPECIFIED HEREIN, OR APPROVED EQUAL.
11. ALL IRRIGATION EQUIPMENT, NOT OTHERWISE DETAILED ON THESE PLANS, SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS, AND ACCORDING TO LOCAL AND STATE LAWS.

SLEEVES

1. IF PIPING UNDER OR THROUGH HARDSCAPES SUCH AS ROADWAYS, WALKS, PATIOS, WALLS, ETC., THE PIPES MUST BE SLEEVED WITH SCHEDULE 40 PVC PIPE.
2. CONTRACTOR TO COORDINATE WITH THE GENERAL CONTRACTOR FOR SLEEVE AND CONDUIT REQUIREMENTS. IRRIGATION SLEEVES SHALL BE AS FOLLOWS:
 - 2.1. SLEEVES INTENDED FOR LATERAL LINES ARE TO BE TWO SIZES LARGER THAN THE PIPE IT IS CARRYING AND ARE TO BE NO MORE THAN A DEPTH OF TWO FEET BELOW TOP OF CURB. SLEEVES SHOULD EXTEND A MINIMUM OF 2'-0" BEYOND BACK OF CURB.
 - 2.2. SLEEVES INTENDED FOR THE MAINLINE ARE TO BE TWO SIZES LARGER THAN THE PIPE IT IS CARRYING AND ARE TO BE NO MORE THAN A DEPTH OF TWO FEET BELOW TOP OF CURB. SLEEVES SHOULD EXTEND A MINIMUM OF 2'-0" BEYOND BACK OF CURB.
3. NO SLEEVES SHALL HAVE TURNS OR FITTINGS THAT PREVENT A PIPE FROM BEING MANUALLY PUSHED/PULLED THROUGH AFTER IT IS INSTALLED.
4. LOCATE EACH END OF IRRIGATION SLEEVES DIMENSIONALLY ON THE RECORD "AS BUILT" DRAWINGS.

PIPING

1. PIPE LOCATIONS ARE SHOWN DIAGRAMMATICALLY ON THE PLAN AND SHALL BE ADJUSTED IN THE FIELD WHEN LAYING MAINLINE PIPING, ENSURE THAT IT IS A MAXIMUM OF 18 INCHES AWAY FROM EITHER THE BACK OF CURB, FRONT OF WALK, BACK OF WALK, OR OTHER HARDSCAPE AREAS TO ALLOW FOR EASE OF LOCATING AND PROTECTION FROM DAMAGE. INSTALL ALL LATERAL PIPE NEAR PAVEMENT EDGES OR ALONG BUILDING EDGES WHEN POSSIBLE.
2. ALL PIPING TO BE INSTALLED WITHIN PROPERTY LINES.
3. PIPE SIZES SHALL CONFORM TO THOSE SHOWN ON THE IRRIGATION PLAN. NO SUBSTITUTIONS OF SMALLER PIPE SIZES SHALL BE PERMITTED, HOWEVER, SUBSTITUTIONS OF LARGER SIZES MAY BE APPROVED. ALL DAMAGED OR REJECTED PIPE SHALL BE REMOVED AT THE TIME OF DAMAGE OR REJECTION.
4. ALL PROPOSED MAINLINE AND LATERAL PIPING SHALL BE:
 - 4.1. ALL PVC PIPE AND FITTINGS ARE TO BE PRIMED WITH PURPLE PVC PRIMER SOLVENT (COMPATIBLE WITH CEMENT) BEFORE APPLYING PVC CEMENT (HEAVY DUTY) IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE.
 - 4.2. ALL P.V.C. MAINLINES, LATERAL LINES, DRIP LINES SHALL RECEIVE AS FOLLOWS:
 - 6.1. 1/2" MINIMUM COVER FOR MAIN LINES
 - 6.2. 1/8" MINIMUM COVER FOR PIPING LOCATED UNDER PAVING
 - 6.3. 1/2" MINIMUM COVER FOR LATERAL LINES
 - 6.4. 2'-2" MINIMUM COVER FOR DRIPLINE WITH MULCH AS PER SPECIFICATION.
7. THE MINIMUM DISTANCE BETWEEN THE MAINLINE AND LATERAL LINE FITTINGS (EXCEPT FOR REDUCER BUSHINGS) SHALL BE 18".
8. ALL LATERAL LINES SHALL BE 3/4" CLASS 200 PVC UNLESS OTHERWISE NOTED ON PLANS.

TRENCHING

1. SHOULD BE STRAIGHT AND VERTICAL. TRENCHES WITH SMOOTH, FLAT OR SLOPING BOTTOMS. TRENCH WIDTH AND DEPTH SHOULD ALLOW FOR VERTICAL AND HORIZONTAL SEPARATION BETWEEN PIPING AS SHOWN IN TRENCHING DETAIL ON IRRIGATION DETAILS SHEET.
2. WHEN TRENCHING MEASURES SHOULD BE TAKEN TO PREVENT EXISTING LANDSCAPED AREAS, AND ANY DAMAGED MATERIAL IS TO BE REPLACED BY THE CONTRACTOR. REPLACEMENT MATERIALS SHALL BE THE IDENTICAL GENUS, SPECIES AND SIZE AS THE DAMAGED MATERIAL. FINAL DETERMINATION AS TO WHAT NEEDS TO BE REPLACED AND THE APPROVAL OF REPLACEMENTS SHALL BE MADE BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
3. IN AREAS WHERE TREES ARE PRESENT, TRENCH LINES WILL BE ADJUSTED ON THE SITE TO ELIMINATE OR MINIMIZE ANY DAMAGE TO TREE ROOTS. HAND TRENCHING AND EXCAVATION UNDER TREE ROOTS MAY BE REQUIRED.
4. IF THE CONTRACTOR ENCOUNTERS ROCK OR OTHER UNFAVORABLE TRENCHING CONDITIONS, NO ADDITIONAL COMPENSATION WILL BE PAID. WHEN MATERIAL FROM THE EXCAVATION OR TRENCHING IS UNSUITABLE FOR USE AS BACKFILL, ADDITIONAL BACKFILL MATERIAL SUITABLE FOR THIS PURPOSE SHALL BE BROUGHT IN AT THE EXPENSES OF THE CONTRACTOR. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE AND DISPOSE OF ALL UNSUITABLE MATERIALS REMOVED FROM THE TRENCH THAT CANNOT BE USED IN THE BACKFILL OPERATION.

VALVES

1. THE MINIMUM HORIZONTAL DISTANCE OF 36" SHALL BE MAINTAINED BETWEEN ANY VALVES THAT ARE INSTALLED SIDE BY SIDE.
2. WHERE SERVICE TEES ARE INSTALLED ON THE MAINLINE FOR INSTALLATION OF THE ELECTRIC VALVES AND/OR QUICK COUPLING VALVES, THE CONTRACTOR SHALL LIMIT THE NUMBER OF THESE PER SERVICE/TEE. DO NOT INSTAL MORE THAN A TOTAL OF EITHER THREE ELECTRIC VALVES OR A COMBINATION OF TWO ELECTRIC VALVES AND ONE QUICK COUPLER VALVE AT EACH TEE. THE MINIMUM DISTANCE BETWEEN FITTINGS SHALL BE 18" AS REFERENCED IN THE ABOVE NOTES.
3. ZONE VALVES LABELED AS "OPEN" ARE INTENDED FOR THE USE OF SUPPLYING HUNTER AFB-ADJ TREE BUBBLERS ON EACH PROPOSED TREE. IRRIGATION CONTRACTOR SHALL FIELD VERIFY THAT THESE ZONES DO NOT EXCEED 20 GALLONS PER MINUTE. THE IRRIGATION CONTRACTOR SHALL STAKE EACH TREE BUBBLER HEAD LOCATION AND RECEIVE APPROVAL FROM THE OWNER AND/OR THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

IRRIGATION NOTES (CONT.)

QUICK COUPLING VALVES

1. INSTALL QUICK COUPLING VALVES IN 12"X7" PENTEK VALVE BOXES PER DETAIL SHOWN. CONNECT QUICK COUPLING VALVES TO MAINLINE PIPE WITH LASCO UNFITTED, 0-RING SWING JOINTS PER DETAIL SHOWN, #T72-22. SUPPLY OWNER WITH THREE COUPLER KEYS WITH SWIVEL HOSE BIBB EACH, #33DK-10AND #SH-0 RESPECTIVELY. VALVES TO BE INSTALLED SO THAT THE TOP OF THE QUICK COUPLER IS 2" BELOW BOTTOM OF VALVE BOX LID. PURPLE LID SHALL READ "NON-POTABLE, NOT SAFE FOR DRINKING" IN ENGLISH AND SPANISH.

CONTROLLER & SENSORS

1. THE OWNER AND/OR LICENSED IRRIGATOR SHALL DETERMINE THE FINAL CONTROLLER LOCATION. THE IRRIGATION CONTRACTOR SHALL MAKE FINAL ELECTRICAL CONNECTION OF CONTROLLER PER LOCAL ELECTRICAL CODE, PROVIDE ALL NECESSARY FUSE BOXES, CONDUIT, FITTINGS, CONNECTORS OR OTHER ELECTRICAL DEVICES TO MAKE CONNECTION. OWNER SHALL PROVIDE ELECTRICAL SERVICE WITHIN 10 LINEAR FEET OF CONTROLLER LOCATION UNLESS NOTED OTHERWISE ON DRAWINGS.
2. CONNECT REMOTE SENSORS TO CONTROLLER WITH GROUND WIRE IN SERIES PRIOR TO CONNECTING TO REMOTE CONTROL VALVES.

POINT OF CONNECTION

1. MULTIPLE POINTS OF CONNECTION (POC) EXIST FOR THIS PLAN
 - 1.1. POINT OF CONNECTION "A" MUST BE ABLE TO DELIVER A MINIMUM OF ___ GPM AT ___ PSI DOWNSTREAM OF ANY TAP.
 - 1.2. POINT OF CONNECTION "B" MUST BE ABLE TO DELIVER A MINIMUM OF ___ GPM AT ___ PSI DOWNSTREAM OF ANY TAP.
 - 1.3. POINT OF CONNECTION "C" MUST BE ABLE TO DELIVER A MINIMUM OF ___ GPM AT ___ PSI DOWNSTREAM OF ANY TAP.
 - 1.4. POINT OF CONNECTION "D" IS AN EXISTING ___ MAINLINE INSTALLED IN PHASE ___ AND IS SUPPLIED FROM AN EXISTING ___ DOUBLE CHECK VALVE ASSEMBLY CONNECTED TO A POTABLE WATER SUPPLY.
2. CONTRACTOR TO VERIFY THAT THESE CONDITIONS STATED ABOVE CAN BE MET PRIOR TO ORDERING MATERIALS OR INSTALLATION. IF THE CONDITIONS CANNOT BE MET, THE CONTRACTOR MUST NOTIFY THE IRRIGATION DESIGNER OF THE COMMENCEMENT OF WORK. IF THE CONTRACTOR FAILS TO NOTIFY THE IRRIGATION DESIGNER, THE CONTRACTOR PROCEEDS AT THEIR OWN RISK AND BECOMES RESPONSIBLE FOR ANY FUTURE WORK NEEDED TO ENSURE THAT THE SYSTEM IS OPERATING PROPERLY.

ELECTRICAL & WIRING

1. IRRIGATION CONTRACTOR TO PROVIDE ELECTRICAL SUPPLY FOR ALL IRRIGATION PUMPS, CONTROLLERS, SENSORS, PUMP START RELAYS, ETC.
2. CONTRACTOR TO COORDINATE WITH LOCAL UTILITIES FOR THE INSTALLATION OF, AND CONNECTION TO, SITE AVAILABLE POWER SUPPLIES FOR REQUIRED ELECTRICAL COMPONENTS AS SET FORTH IN THE IRRIGATION PLANS.
3. ALL ELECTRICAL WORK IS TO COMPLY WITH THE NATIONAL ELECTRICAL CODE AND ANY, AND ALL, OTHER APPLICABLE CODES, LAWS AND REGULATIONS.
4. A LICENSED ELECTRICIAN SHALL PERFORM ALL ELECTRICAL CONNECTIONS.
5. POWER FOR EACH CONTROLLER SHALL BE A DEDICATED 120 VOLT, 20 AMP CIRCUIT UNLESS OTHERWISE SPECIFIED ON THE PLANS. IF APPLICABLE, POWER FOR THE PUMPS(S) TO BE ACCORDING TO PUMP SPECIFICATIONS INDICATED IN PLANS.
6. ALL IRIGATION WIRING IS TO BE PERFORMED AND NOT EXISTING.
7. EXTEND EXTRA WIRE AND MAINLINE PAST THE FARTHEST VALVE, ROUTED PARALLEL AND PLACE IN 12"X17" PENTEK VALVE BOX WHEN NOTED ON PLANS FOR FUTURE EXPANSION OF IRRIGATION SYSTEM AT A LATER DATE.
8. TWO WIRE PATH SHALL BE DIRECT BURIAL, 14 AWG OR STANDARD DECODED CABLE BY HUNTER WITH YELLOW JACKET (DIDLYW), RATED FOR DIRECT BURIAL APPLICATIONS, UF, UL APPROVED, HUNTER ICD DECODERS SHALL BE USED ON ALL ZONE VALVE CONNECTIONS TO TWO WIRE PATH. CONTRACTOR TO USE MANUFACTURER'S RECOMMENDATIONS OF WIRE SPLICING AND BURIAL TECHNIQUES AS DETAILED AT WWW.HUNTERINDUSTRIES.COM.

CONTROLLER GROUNDING

1. **GROUNDING FOR TWO-WIRE**
 - 1.1. IN ALL CASES, WHERE IT DOES NOT CONFLICT WITH APPROPRIATE GROUNDING GRID DESIGN FOR THE SITE IN QUESTION, GROUND RODS OR PLATES AS REFERRED TO IN THIS SPECIFICATION SHALL CONFORM TO THE FOLLOWING STANDARDS:
 - 1.1.1. THE INSTALLER SHALL FOLLOW MANUFACTURER'S GROUNDING SPECIFICATIONS.
 - 1.1.2. THE INSTALLER SHALL PROVIDE ADAPTURED EARTH GROUND.
 - 1.1.2.1. RESISTANCE READINGS OF 5 TO 10 OHMS ARE DESIRABLE, AND A READING OF NO MORE THAN 25 OHMS IS REQUIRED AT ALL GROUNDING POINTS INCLUDING THE TWO-WIRE AND CHASSIS GROUND.
 - 1.1.2.2. THE INSTALLER SHALL COMPLY WITH PRACTICES DEFINED IN THE AMERICAN SOCIETY OF IRRIGATION CONSULTANTS EARTH GROUNDING ELECTRONIC EQUIPMENT IN IRRIGATION SYSTEMS-GUIDELINES, AVAILABLE AT WWW.ASIC.ORG.
 - 1.1.3. THE INSTALLER SHALL INSTALL A GROUND ROD OR GROUND PLATE EVERY 600 FEET (82288 M) ON THE TWO-WIRE, AND ON THE END OF EVERY SPUR THAT EXCEEDS 50 FEET (15.24 M), IN HIGH LIGHTNING AREAS, GROUNDING SHOULD BE INCREASED TO EVERY 300 FEET (91.44 M).
 - 1.1.4. GROUNDING RODS SHALL BE LOCATED THE LENGTH OF THE GROUNDING ROD AWAY FROM THE TWO-WIRE PATH.
 - 1.1.4.1. THERE SHALL BE A 6-GAUGE BARE COPPER WIRE CONNECTING THE GROUNDING ROD TO THE SURGE ARRESTOR.
 - 1.1.5. GROUNDING PLATES SHALL BE LOCATED A DISTANCE EQUAL TO THE DIAGONAL MEASUREMENT OF THE GROUNDING PLATE FROM THE TWO WIRE PATH. THE LONGEST SIDE OF THE GROUNDING PLATE SHALL RUN PARALLEL TO THE TWO-WIRE PATH.
 - 1.1.5.1. THERE SHALL BE A 6-GAUGE BARE COPPER WIRE CONNECTING THE GROUNDING PLATE TO THE SURGE ARRESTOR.
 - 1.1.5.2. THE SURGE ARRESTOR SHALL BE LOCATED IN A VALVE BOX AND SHALL NOT BE BUILT INTO THE DECODER.

GROUNDING RODS AND PLATES

2. **GROUNDING RODS AND PLATES**
 - 2.1. ALL GROUNDING RODS SHALL BE BARE COPPER 5/8 INCH (1.6 CM) DIAMETER OR GREATER AND A MINIMUM OF 8 FEET (2.44 M) LONG OR LONGER.
 - 2.2. A 10-INCH (25.4 CM) ROUND VALVE BOX SHALL BE INSTALLED OVER THE TOP OF THE GROUNDING ROD TO FACILITATE THE USE OF A CLAMP-ON GROUND RESISTANCE TESTER.
 - 2.3. ALL GROUNDING PLATES SHALL BE A MINIMUM OF 5 SQUARE FEET (1.5 M) AS OUTLINED IN ASIC EARTH GROUNDING ELECTRONIC EQUIPMENT IN IRRIGATION SYSTEMS-GUIDELINES.
 - 2.4. A 10-INCH (25.4 CM) ROUND VALVE BOX SHALL BE INSTALLED OVER THE TOP OF THE GROUND PLATE CONNECTION TO FACILITATE THE USE OF A CLAMP-ON GROUND RESISTANCE TESTER.
 - 2.5. GROUNDING RODS AND PLATES SHALL BE LOCATED AT A MINIMUM DISTANCE FROM THE TWO-WIRE TO ASSURE THAT THE TWO WIRE PATH IS OUTSIDE OF THE ELECTRODE SPHERE OF INFLUENCE.
 - 2.5.1. FOR AN 8-FOOT (2.44 M) GROUNDING ROD, THE GROUNDING ROD SHALL BE CONNECTED AT LEAST 8 FEET AWAY FROM THE TWO-WIRE PATH AT A RIGHT ANGLE TO THE TWO-WIRE PATH.
 - 2.5.2. GROUNDING PLATES SHALL BE LOCATED A DISTANCE EQUAL TO THE DIAGONAL MEASUREMENT OF THE GROUNDING PLATE (THE DISTANCE FROM ONE CORNER OF THE GROUNDING PLATE TO THE OPPOSITE CORNER) FROM THE TWO WIRE PATH.

CONNECTIONS TO GROUNDING RODS AND PLATES

3. **CONNECTIONS TO GROUNDING RODS AND PLATES**
 - 3.1. THE MINIMUM GROUND CONDUCTOR RUNNING FROM THE GROUNDING DEVICE TO THE SURGE ARRESTOR SHALL BE A MINIMUM OF A 6-GAUGE 1/40MM DIAMETER, BARE COPPER WIRE.
 - 3.2. THE GROUND ROD MUST BE BURED A MINIMUM OF 6 INCHES (15.24 CM) UNDER THE SOIL.
 - 3.3. ALL CONNECTIONS TO GROUNDING RODS OR GROUND PLATES SHALL CONFORM TO ASIC EARTH GROUNDING ELECTRONIC EQUIPMENT IN IRRIGATION SYSTEMS-GUIDELINES, AND SHALL CONSIST OF EITHER A CLAMP TYPE OR SCREW CLAMP TYPE, A CONNECTION THAT IS SUITABLE FOR DIRECT BURIAL, CADWELD OR EQUIVALENT CONNECTIONS ARE PREFERRED.
 - 3.4. THE RESISTANCE READING AT THE GROUNDING ROD/PLATE CONNECTOR SHALL BE LESS THAN 1 MIILOHM.
 - 3.5. ANY WIRE EXTENSIONS REQUIRED TO CONNECT FROM A GROUNDING ROD OR PLATE TO A SURGE ARRESTOR OR ENCLOSURE GROUND LUG SHALL BE BARE COPPER.
 - 3.6. THE 6-GAUGE SOLID CONDUCTOR SHALL NOT EXCEED A MINIMUM OF AN 8-INCH (20.3 CM) RADIUS BEND AT ANY POINT ALONG THE WIRE.
 - 3.7. THERE SHALL ONLY BE ONE MECHANICAL CONNECTION ON THE GROUNDING SYSTEM.
 - 3.8. ALL GROUND LUGS SHALL BE MADE OF EITHER COPPER WITH STAINLESS STEEL BOLTS AND COPPER WASHERS OR BRASS WITH STAINLESS STEEL BOLTS AND BRASS WASHERS.
 - 3.9. ALL MECHANICAL CONNECTIONS WHERE WIRES CONNECT SHALL BE CLEANED, SCORED, AND COVERED WITH ANTIOXIDANT.
 - 3.10. WIRE EXTENSIONS CONNECTED TO GROUNDING DEVICES SHALL USE AN EXOTHERMIC WELD OR SCREW CLAMP TYPE CONNECTION WHERE THE BARE COPPER GROUND WIRE MEETS THE GREEN GROUNDING WIRE FROM THE LIGHTNING ARRESTOR. THIS CONNECTION MUST BE SUITABLE FOR DIRECT BURIAL. GROUND HARDWARE SHALL EXTEND AT RIGHT ANGLES FROM THE TWO-WIRE PATH.

SURGE ARRESTORS

4. **SURGE ARRESTORS**
 - 4.1. THE SURGE ARRESTORS SHALL BE FULLY SEALED, SUBMERSION PROOF MADE FOR DIRECT BURY, AND SHALL EFFECTIVELY SEAL MOISTURE FROM ELECTRONICS. THE SURGE ARRESTORS SHALL BE INSTALLED AS SPECIFIED HEREIN.
 - 4.2. THE SURGE ARRESTOR SHALL COME WITH 2 LEVELS OF SURGE PROTECTION THAT WILL CLAMP AT 60 VOLTS IN LESS THAN 1 MICROSECOND.
 - 4.3. THE SURGE ARRESTOR SHALL CLAMP CLOSED TO DISSIPATE ALL SURGES TO EARTH GROUND AND PROTECT OTHER DEVICES ON THE TWO-WIRE.
 - 4.4. EACH SURGE ARRESTOR SHALL COME WITH 23 INCHES (58.4 CM) OF 16-GAUGE PVC JACKETED SOLID CORE WIRE TO CONNECT TO THE TWO WIRE.
 - 4.5. EACH SURGE ARRESTOR SHALL COME WITH 23 INCHES (58.4 CM) OF 12-GAUGE PVC JACKETED SOLID CORE WIRE TO CONNECT TO THE GROUND WIRE.
5. **SURGE ARRESTOR WIRING AND INSTALLATION**

IRRIGATION NOTES (CONT.)

- 5.1. THE SURGE ARRESTOR SHALL BE INSTALLED IN AN APPROPRIATE IRRIGATION BOX AND SHALL BE CONNECTED TO THE TWO-WIRE IN ACCORDANCE WITH THE MANUFACTURER'S TWO-WIRE CONNECTOR SPECIFICATIONS.
- 5.2. THE SURGE ARRESTOR GROUND WIRE SHALL BE CONNECTED TO A BARE COPPER SOLID CORE GROUND WIRE USING A SCREW CLAMP OR SPLIT BOLT TYPE CONNECTOR (NO WIRE NUTS OF ANY KIND ARE SUPPORTED FOR GROUNDING WIRES). THE CONNECTOR SHALL BE INSTALLED AND INSULATED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.
- 5.3. THE BARE COPPER WIRE SHALL BE CONNECTED TO THE GROUNDING DEVICE USING THE GROUNDING DEVICE SPECIFICATIONS.
- 5.4. THE FIRST SURGE ARRESTOR ON THE TWO-WIRE PATH SHALL BE WITHIN 25' OF THE CONTROLLER. THIS GROUNDING POINT SHALL BE SEPARATE FROM THE IRRIGATION CONTROLLER'S ENCLOSURE GROUNDING POINT.
- 5.5. A SURGE ARRESTOR SHALL BE PLACED EVERY 600' ON THE TWO-WIRE PATH.
 - 5.5.1. IN LIGHTNING PRONE REGIONS, A SURGE ARRESTOR SHALL BE PLACED EVERY 300' RATHER THAN GOING OUT TO THE MAXIMUM DISTANCE.
- 5.6. A SURGE ARRESTOR SHALL BE PLACED AT THE END OF THE TWO-WIRE THAT IS THE MAXIMUM DISTANCE FROM THE CONTROLLER OR IF LOOPED AT THE POINT OF MAXIMUM DISTANCE FROM THE CONTROLLER.
- 5.7. ANY BRANCH OF THE TWO-WIRE THAT EXCEEDS 50' SHALL HAVE A SURGE ARRESTOR AT THE END.
- 5.8. ON AN UNINTERRUPTED WIRE RUN OF MORE THAN 600', A SURGE ARRESTOR SHALL BE PLACED AT EACH END.

PROCESS

1. LAYOUT IRRIGATION SYSTEM LATERAL LINES AND MAINLINES PRIOR TO INSTALLATION, AND MAKE CHANGES NEEDED, TAKING INTO ACCOUNT ALL SITE OBSTRUCTIONS AND LIMITATIONS.
2. STAKE ALL SPRINKLER HEAD LOCATIONS, ADJUST LOCATION AND MAKE NECESSARY MODIFICATIONS TO NOZZLE TYPES, ETC. REQUIRED TO ENSURE 100% HEAD TO HEAD COVERAGE.
 - 2.1. SPRAY HEADS & ROTORS SHALL BE INSTALLED 6" FROM SIDEWALKS OR CURBED ROADWAYS, 12" FROM BUILDING FOUNDATIONS, AND 30" FROM UNCURBED ROADWAYS.
 - 2.2. SHRUB HEADS SHALL BE INSTALLED ON 74" SCHEDULE 40 PVC RISERS. THE RISERS SHALL BE SET AT A MINIMUM OF 18" OFF SIDEWALKS, ROADWAY CURBING, BUILDING FOUNDATIONS, AND/OR ANY OTHER HARDSCAPED AREAS. SHRUB HEADS SHALL BE INSTALLED TO A STANDARD HEIGHT OF 4" BELOW MAINTAINED HEIGHT OF PLANTS AND SHALL BE INSTALLED A MINIMUM OF 6" WITHIN PLANTED MASSES TO BE LESS VISIBLE AND OTHER PROTECTION. PAINT ALL SHRUB RISERS WITH FLAT BLACK OR FORSET GREEN PAINT, UNLESS IRRIGATION SYSTEM WILL REUSE WATER. IN THIS CASE, RISERS SHALL BE PURPLE PVC AND SHALL NOT BE PAINTED.
3. LOCATE VALVES PRIOR TO INSTALLATION AND ENSURE THAT THEIR LOCATION PROVIDES EASY ACCESS AND THAT THERE IS NO INTERFERENCE WITH PHYSICAL STRUCTURES, PLANTS, TREES, POLES, ETC. VALVE BOXES MUST BE PLACED A MINIMUM OF 12" AND A MAXIMUM OF 15" FROM THE EDGE OF PAVEMENT, CURBS, ETC. AND THE TOP OF THE BOX MUST BE 2" ABOVE FINISHED GRADE. VALVE BOXES SHALL NEVER BE INSTALLED IN SPORTS FIELDS.
4. LABEL EACH VALVE WITH A WATERPROOF TAG INSIDE OF THE VALVE BOX. THIS LABEL SHOULD BE AT LEAST 2' TALL AND INCLUDE THE VALVE ID NUMBER THAT IS LEGIBLE.

INSTALLATION & COMPLETION

1. **SOLVENT WELDED PIPE**
 - 1.1. PVC PLASTIC PIPE SHALL BE SQUARELY BURRS LEFT FROM CUTTING SHALL BE WIPED OFF WITH A CLEAN DRY CLOTH. UTILIZING A CLEANER/PRIMER, THOROUGHLY CLEAN THE MATING PIPE END AND THE FITTING SOCKET WITH A CLEAN, DRY CLOTH. APPLY A UNIFORM COAT OF SOLVENT CEMENT TO THE OUTSIDE OF THE PIPE END WITH A NON-SYNTHETIC BRUSH OR DAISHER. IN LIKE MANNER, APPLY A UNIFORM COAT OF SOLVENT CEMENT TO THE INSIDE OF THE FITTING. IF NEEDED, RE-APPLY A LIGHT COAT OF SOLVENT CEMENT TO THE PIPE END AND QUICKLY INSERT IT INTO THE FITTING TO THE FULL DEPTH OF THE FITTING SOCKET. ROTATE THE PIPE OR FITTING APPROXIMATELY 1/4 TURN TO INSURE EVEN DISTRIBUTION OF THE SOLVENT CEMENT. HOLD IN POSITION FOR APPROXIMATELY 15 SECONDS. ANY EXCESS SOLVENT CEMENT THAT FORMS AS A BEAD AROUND THE OUTER SHOULDER. CARE SHOULD BE TAKEN SO AS NOT TO USE AN EXCESS AMOUNT OF SOLVENT CEMENT THAT COULD CAUSE BURRS OR OBSTRUCTIONS TO FORM ON THE INSIDE OF THE PIPE JOINT. SOLVENT WELD JOINTS SHALL BE ALLOWED TO CURE FOR AT LEAST 24 HOURS BEFORE PRESSURE IS APPLIED TO THE SYSTEM.
2. **PIPE AND FITTING INSTALLATION**
 - 2.1. INSTALLATION OF PLASTIC PIPE AND FITTINGS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND PROCEDURES AND AS MENTIONED IN THE SPECIFICATIONS. MANUFACTURER'S RECOMMENDED PROCEDURES FOR MAKING SOLVENT WELD FITTINGS SHALL BE STRICTLY ADHERED TO. ONLY SOLVENT CEMENTS, CLEANERS, AND PRIMERS OR LUBRICANTS RECOMMENDED OR SUPPLIED BY THE PIPE MANUFACTURER SHALL BE USED.
 - 2.2. THE CONTRACTOR IN HANDLING, LOADING, UNLOADING, AND STORING OF PVC PIPE AND FITTINGS SHALL EXERCISE CAUTION. ALL PVC PIPE SHALL BE STORED AND TRANSPORTED IN A VEHICLE WITH A BED OR RACK OR BE STORED TO ALLOW THE PIPE TO LIE FLAT TO PREVENT STRESSING THAT UNDE BENDING OR CONCENTRATED EXTERNAL LOAD AT ANY POINT. ANY SECTION OF PIPE THAT HAS BEEN DENTED OR DAMAGED OR IN ANY OTHER WAY FOUND TO BE DEFECTIVE, EITHER BEFORE OR AFTER INSTALLATION SHALL BE REPLACED WITH SOUND PIPE WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
 - 2.3. BEFORE INSTALLATION, THE INSIDE OF THE PIPE SHALL BE CLEANED OF ALL DIRT AND FOREIGN MATTER AND SHALL BE KEPT IN A CLEAN CONDITION DURING AND AFTER INSTALLATION OF PIPE. WHEN WORK IS NOT IN PROGRESS, OPEN ENDS OF PIPE AND FITTINGS SHALL BE SECURED CLOSED SO THAT NO TRENCHING OR OTHER FOREIGN MATTER CAN GET INTO THE PIPE OR FITTINGS. WHERE PIPE ENDS ARE LEFT FOR FUTURE EXPANSION OR CONNECTIONS, THEY SHALL BE VALVED OFF AND CAPPED AS DIRECTED. THESE FUTURE EXPANSION POINTS WILL BE NOTED ON THE AS BUILT DRAWINGS.
 - 2.4. ALL PVC PIPE AND FITTINGS SHALL BE ASSEMBLED TO PERMIT THE PIPE OR FITTINGS TO BE JOINED AT THE TRUE PARALLEL POSITION OF THE FITTINGS. PLACEMENT OF PIPE IN CURVING TRENCHES THAT CAUSE EXCESSIVE BENDING AND STRESS ON PIPE AND FITTINGS WILL NOT BE PERMITTED. SYSTEM SHALL BE DESIGNED AND INSTALLED SO THAT NO FITTINGS ARE WITHIN TWO TIMES THE PIPE DIAMETER OF EACH OTHER. FOR EXAMPLE, ON A ONE-INCH DIAMETER PIPE, NO FITTINGS ARE WITHIN TWO INCHES OF EACH OTHER.
 - 2.5. BEFORE INSTALLING THE PIPE, ALL DEBRIS AND LARGE ROCKS SHALL BE REMOVED FROM THE TRENCHES. IF THE SOIL IS EXTREMELY ROCKY, THE TRENCHES SHALL BE BEDDED WITH DIRT OR SAND AS OUTLINED IN OTHER PORTIONS OF THESE SPECIFICATIONS. THE FULL LENGTH OF EACH SECTION OF THE PIPE SHALL REST SOLIDLY UPON THE PIPE BED, WITH REGRESS EXCAVATED TO ACCOMMODATE BELLS, JOINTS AND COUPLINGS.
 - 2.6. PIPE SHALL NOT BE LAID IN WATER OR WHEN TRENCH OR WEATHER CONDITIONS ARE UNSUITABLE FOR THE WORK. ANY WATER, WHICH MAY BE ENCOUNTERED OR MAY ACCUMULATE IN THE TRENCHES OR EXCAVATION SHALL BE PUMPED OUT OR OTHERWISE REMOVED AS NECESSARY TO KEEP THE BOTTOM OF THE TRENCH OR EXCAVATION FREE AND CLEAR OF WATER DURING THE PROGRESS OF THE WORK. PIPE SHALL NOT BE LAID WHEN THE TEMPERATURE IS 32° F OR BELOW.
 - 2.7. THE MINIMUM HORIZONTAL AND CLEARANCE BETWEEN LINES IN THE SAME TRENCH SHALL BE 4". DO NOT STACK LINES TOGETHER.
 - 2.8. AFTER ALL SPRINKLER PIPING, RISERS, VALVES, THRUST BLOCKS ETC., HAVE BEEN INSTALLED AND PARTIALLY BACKFILLED AS SPECIFIED IN OTHER PARTS THESE SPECIFICATIONS, THE CONTROL VALVE SHALL BE OPENED AND A FULL HEAD A WATER USED TO FLUSH OUT THE SYSTEM. AFTER THE SYSTEM IS THOROUGHLY FLUSHED, RISERS SHALL BE CAPPED OFF AND THE SYSTEM PRESSURE TESTED IN ACCORDANCE WITH THE TESTING SECTION OF THESE SPECIFICATIONS. AT THE CONCLUSION OF THE PRESSURE TEST, THE HEADS SHALL BE INSTALLED AND THE BACKFILL OPERATION COMPLETED.
3. **SPRINKLER INSTALLATION**
 - 3.1. SPRINKLER HEADS SHALL BE OF THE TYPE AND MAKE SPECIFIED AND SHALL BE INSTALLED AS SHOWN ON THE DRAWINGS. SPRINKLER HEADS SHALL BE INSTALLED WITH A MINIMUM 6" SPACE BETWEEN THE EDGE OF THE SPRINKLER HEAD AND CURBS, WALLS, DRIVEWAYS, BUILDING WALLS, ETC. HEADS SHALL BE INSTALLED IN THE VERTICAL POSITION AND BACKFILLED AND COMPACTED TO NEAR ORIGINAL DENSITY. ALL SPRINKLERS WILL BE INSTALLED ON A PREVIOUSLY APPROVED FLEX TYPE OR SWING TYPE RISER.
 - 3.2. SPRINKLER HEAD SPACING SHALL NOT EXCEED THE MANUFACTURER'S RECOMMENDED SPACING AND SHALL BE IN THE LOCATION AND CONFIGURATION AS SHOWN ON THE DRAWINGS. CONTRACTOR SHALL FURNISH THE DIMENSION WHILE STAKING SPRINKLER HEAD LOCATION. SPRINKLER HEADS SHALL BE SPACED TO ACHIEVE MAXIMUM UNIFORM COVERAGE.
 - 3.3. AFTER ALL PIPING AND RISERS ARE IN PLACE AND CONNECTED AND BEFORE INSTALLATION OF THE SPRINKLER HEADS, ALL CONTROL VALVES FOR A GIVEN SECTION SHALL BE FULLY OPENED AND A FULL HEAD OF WATER USED TO FLUSH OUT THE SYSTEM. IF WATER PRESSURE AT THE RISERS OR THE HEADS INSTALLED IS NOT SUFFICIENT TO PROVIDE ADEQUATE WATER FLOW FROM END RISERS, THE CONTRACTOR SHALL CAP OFF ENOUGH HEADS CLOSEST TO THE WATER SOURCE TO PROVIDE ADEQUATE FLUSHING OF THE END RISER ASSEMBLIES.
4. **BACKFILLING**
 - 4.1. DO NOT DIRECTLY BURY THE VALVES. INSTALL A VALVE BOX FOR EASY ACCESS TO VALVES. WAIT UNTIL YOU ARE BACKFILLING THE TRENCH TO SET THE VALVE BOX.
 - 4.2. UPON COMPLETION OF A PARTICULAR SECTION OF THE IRRIGATION SYSTEM, AND AFTER SUFFICIENT TIME HAS ELAPSED FOR THE CURING OF SOLVENT WELD JOINTS, PARTIAL BACKFILLING CAN BEGIN. LEAVING JOINTS, RISERS AND CONNECTIONS EXPOSED FOR VISUAL INSPECTION DURING THE HYDROSTATIC TESTING. ONLY UPON SUCCESSFUL COMPLETION OF THE HYDROSTATIC TEST CAN THE BACKFILL OPERATION BE COMPLETED FOR ANY ONE PARTICULAR SECTION.
 - 4.3. BACKFILL MATERIAL SHALL BE FREE FROM ROCKS OR OTHER DEBRIS OVER ONE (1) INCH DIAMETER, BRUSH SOIL, FROZEN MATERIAL OR OTHER UNSUITABLE SUBSTANCES THAT MAY DAMAGE PIPE DURING THE BACKFILLING OPERATIONS.
 - 4.4. IN THE EVENT THAT THE MATERIAL FROM THE EXCAVATION OR TRENCHING IS FOUND TO BE UNSUITABLE FOR USE IN BACKFILL, THE MATERIAL SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL THEN, AT NO ADDITIONAL COST TO THE OWNER, ARRANGE FOR, PURCHASE, AND FURNISH SUITABLE BACKFILL MATERIAL, CONSISTING OF EARTH, LOAM, SANDY CLAY, SAND OR OTHER APPROVED MATERIALS FREE OF LARGE CLODS OF EARTH OR SHARP STONES AND CAPABLE OF ATTAINING THE REQUIRED DENSITY OF THE SUBSTRATA. THE DENSITY OF THE BACKFILL SHOULD BE BACKFILLED IN HORIZONTAL LAYERS NOT EXCEEDING 6" IN DEPTH AND SHALL BE THOROUGHLY TAMPED, OR WATER COMPACTED TO NEAR ORIGINAL DENSITY OR SO THAT NO SETTLING WILL RESULT. BACKFILL SHALL BE PLACED TO THE ORIGINAL GROUND LEVEL. IF SETTLEMENT OF TRENCHES OCCURS WITHIN ONE (1) YEAR FROM DATE COMPLETION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REFILL TRENCHES AND RE-SEED OR SOD THE REPAIRED AREAS.
5. **TESTING**
 - 5.1. MAINLINE TEST

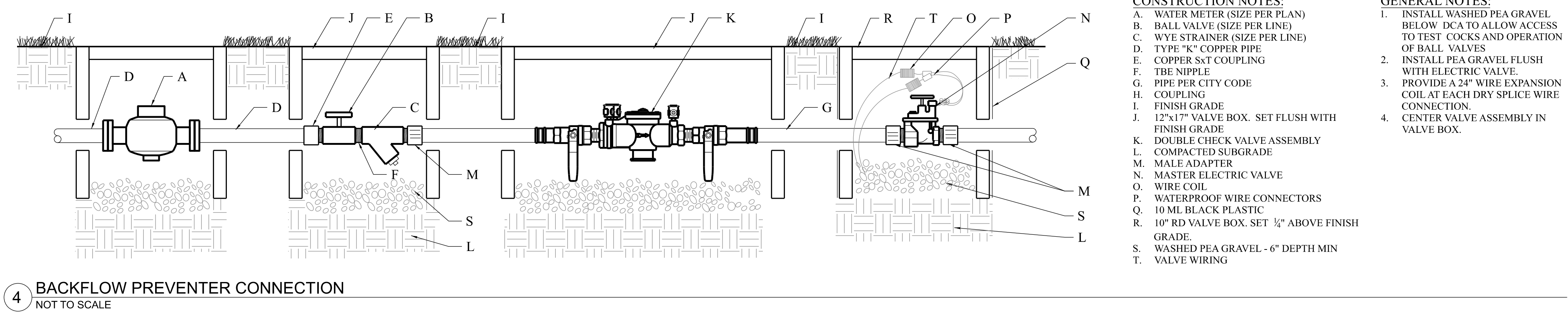
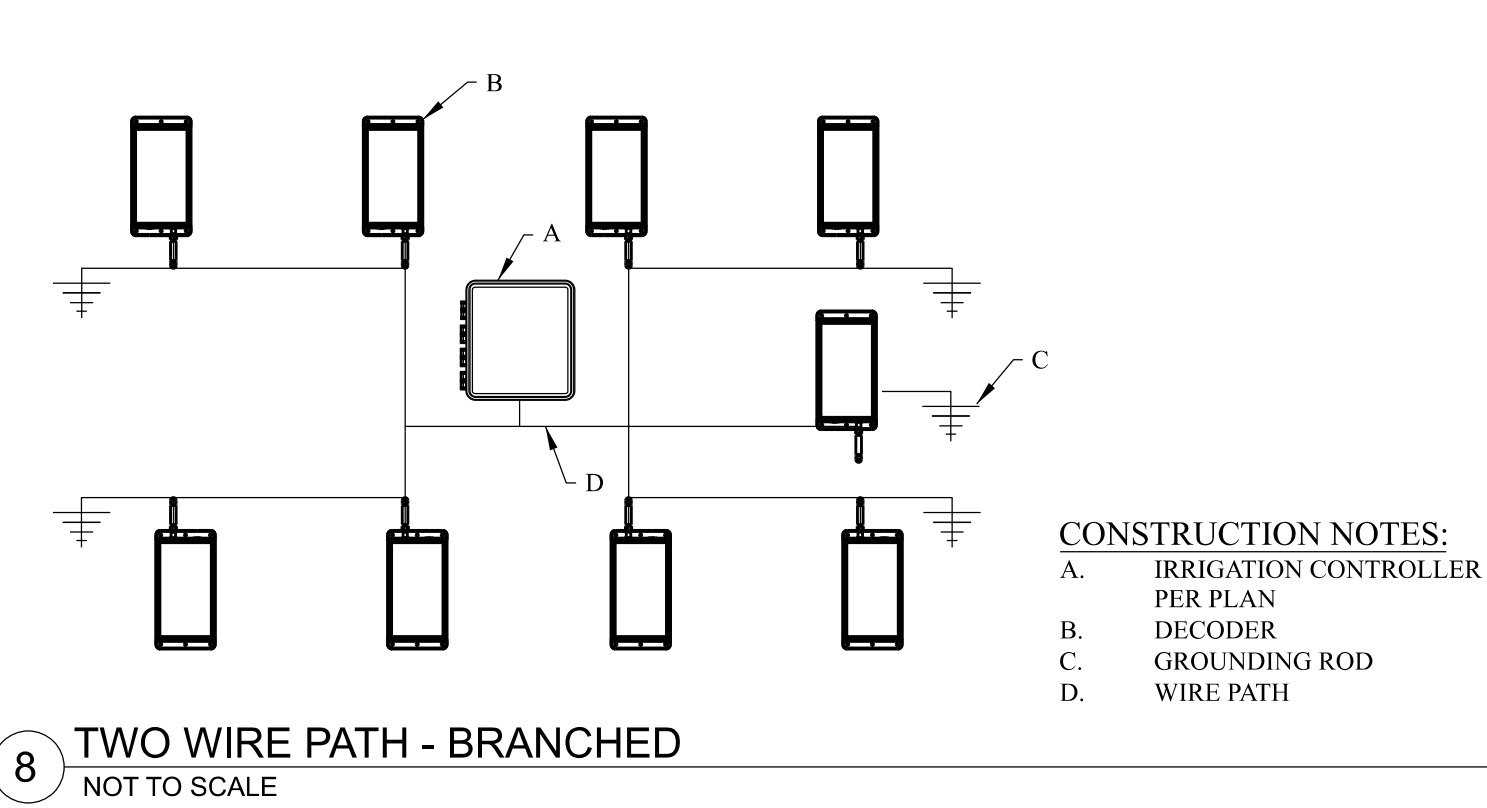
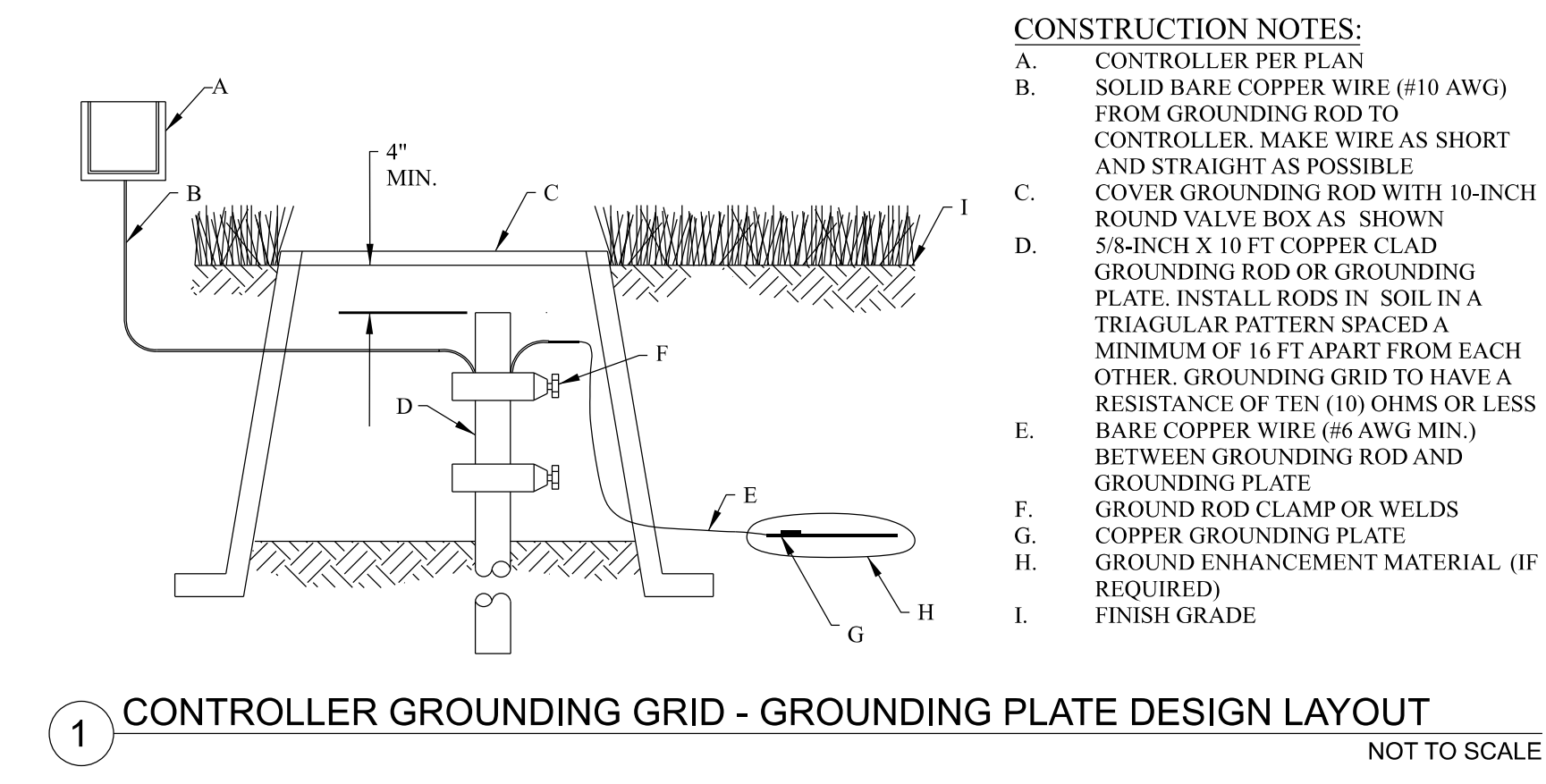
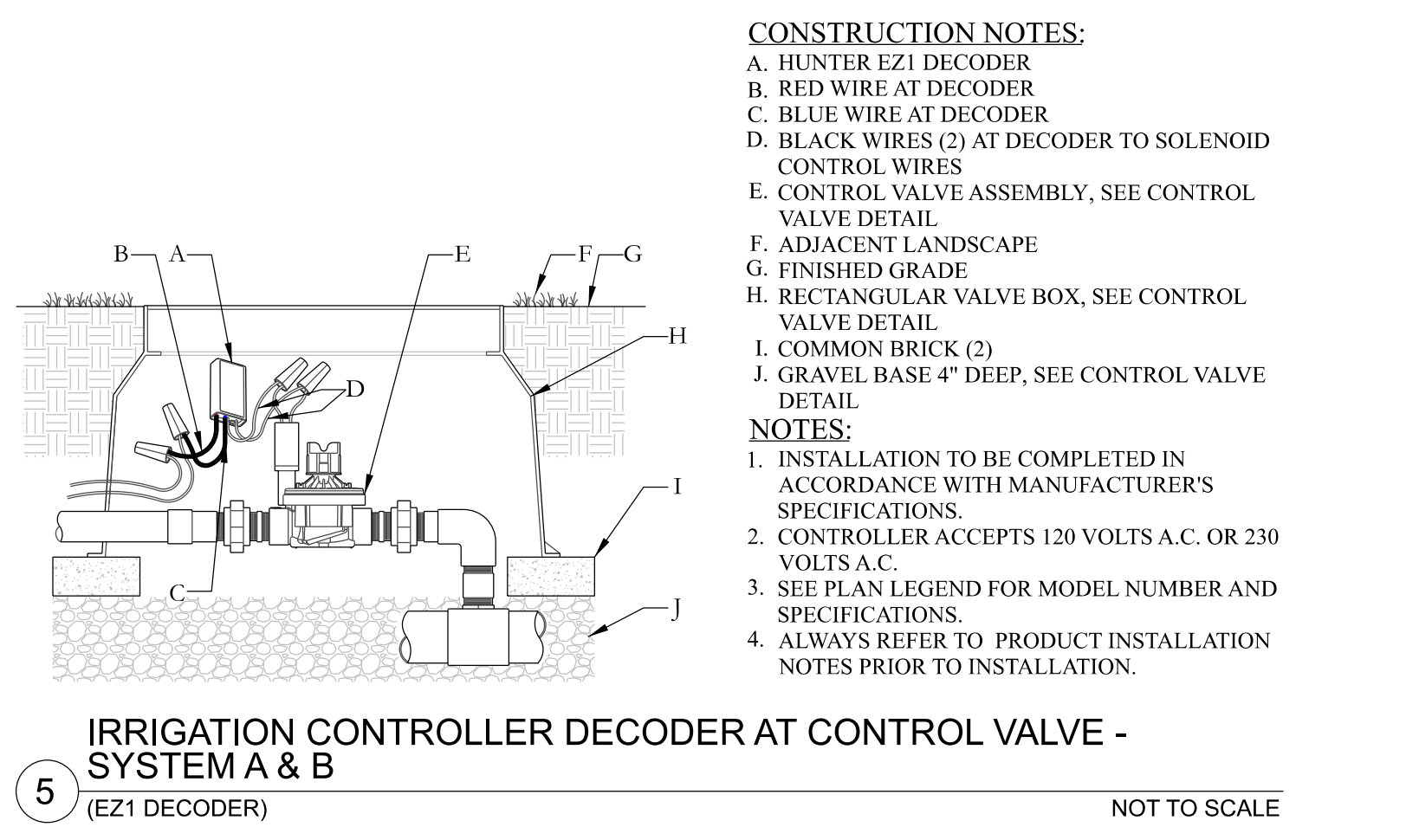
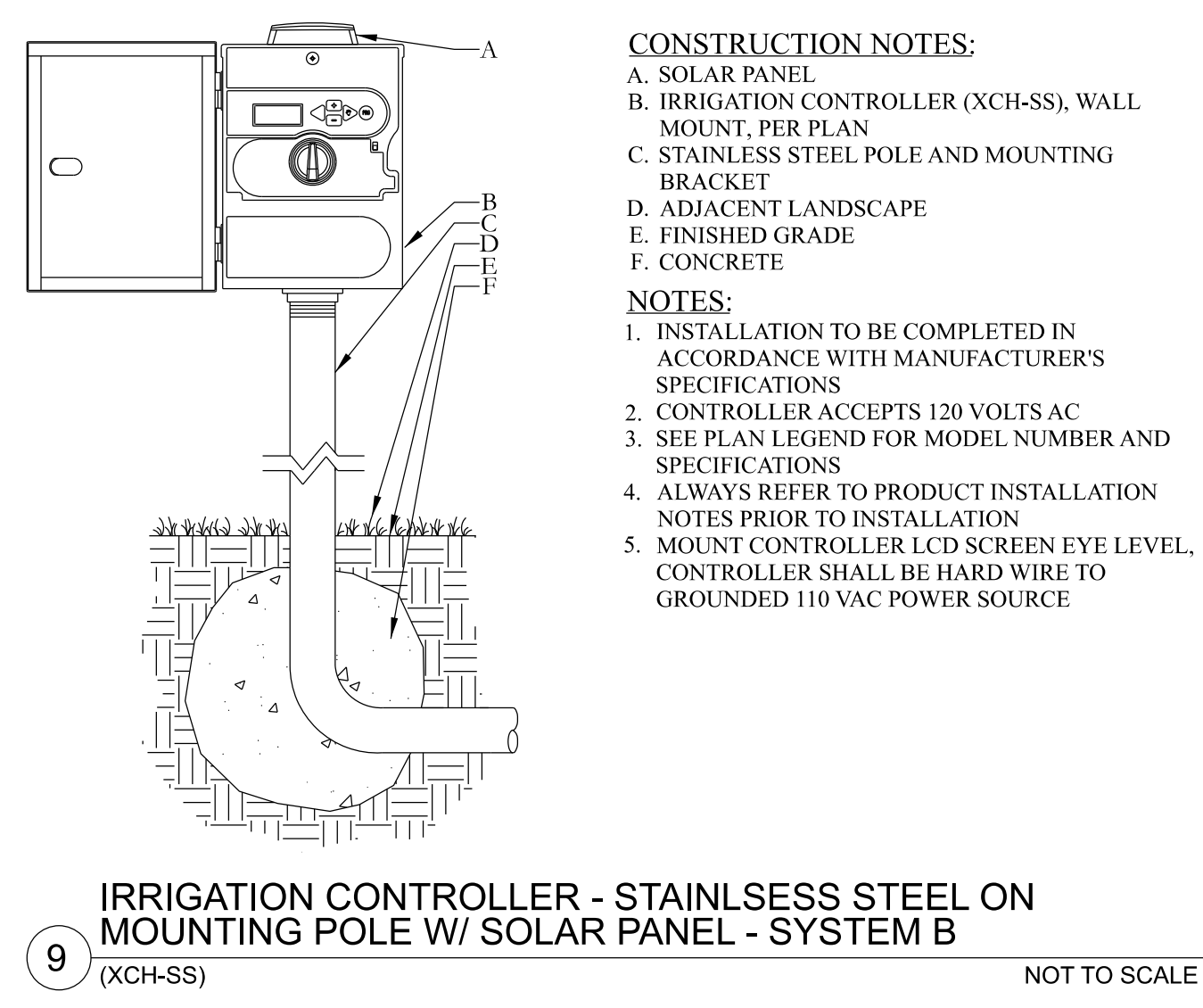
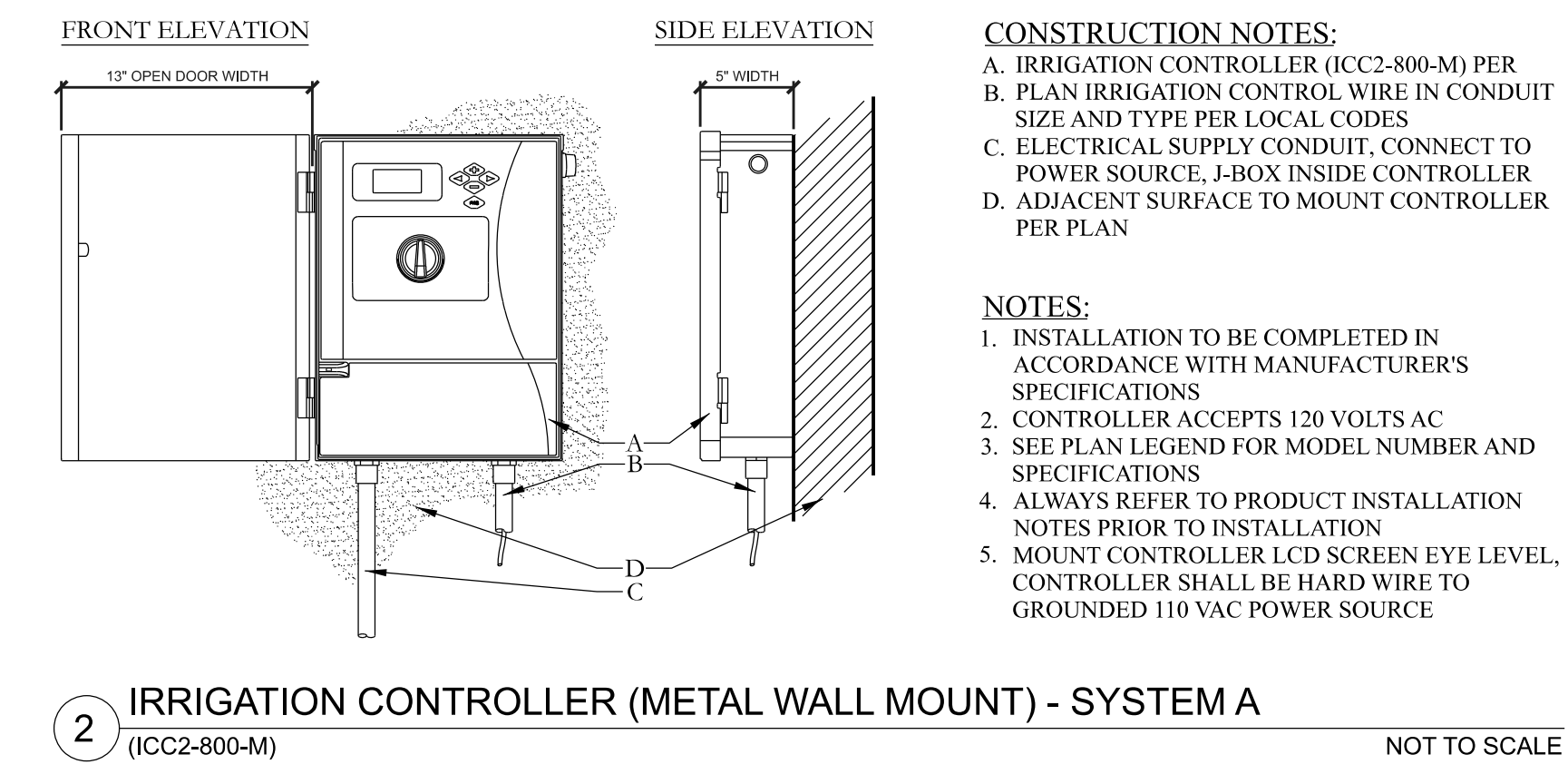
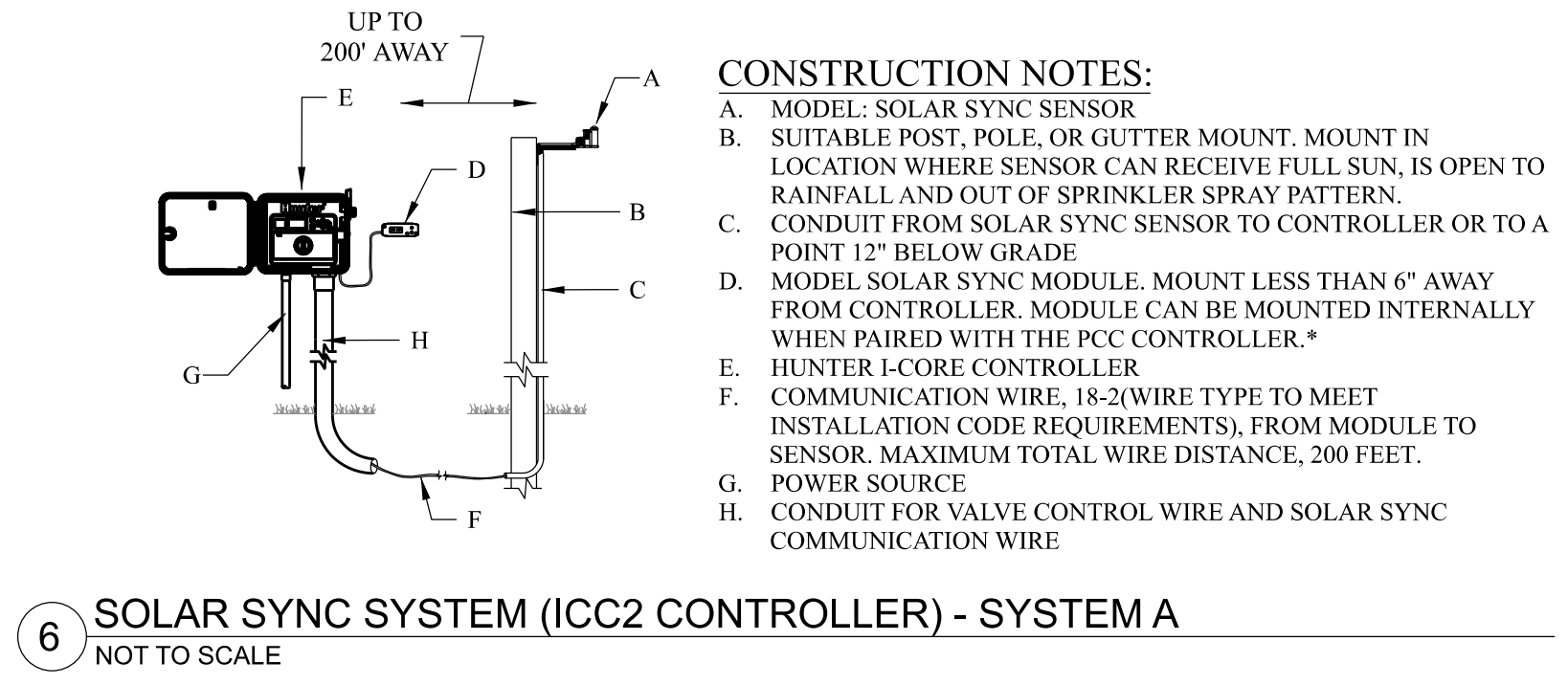
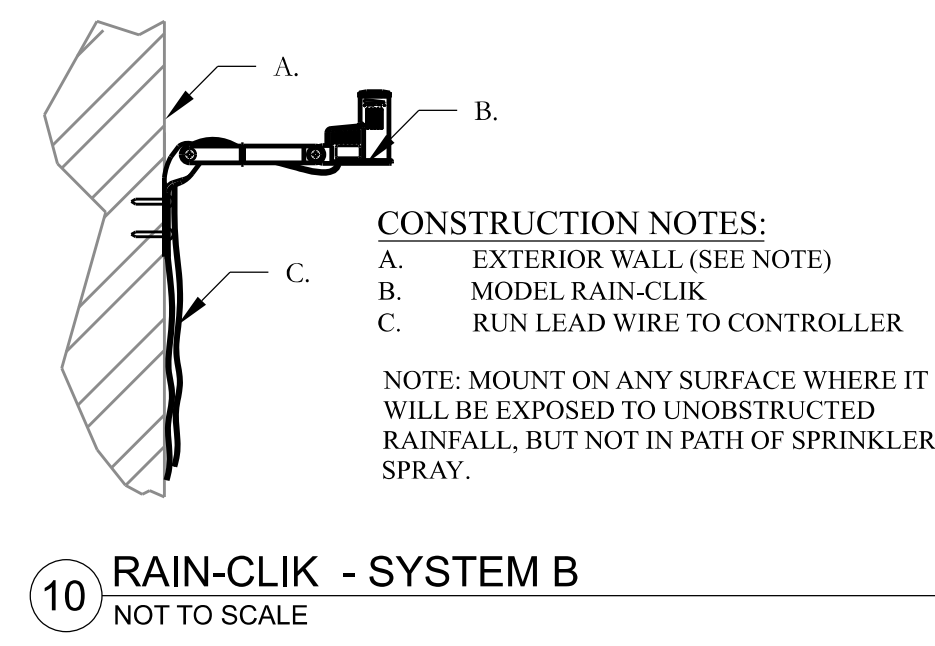
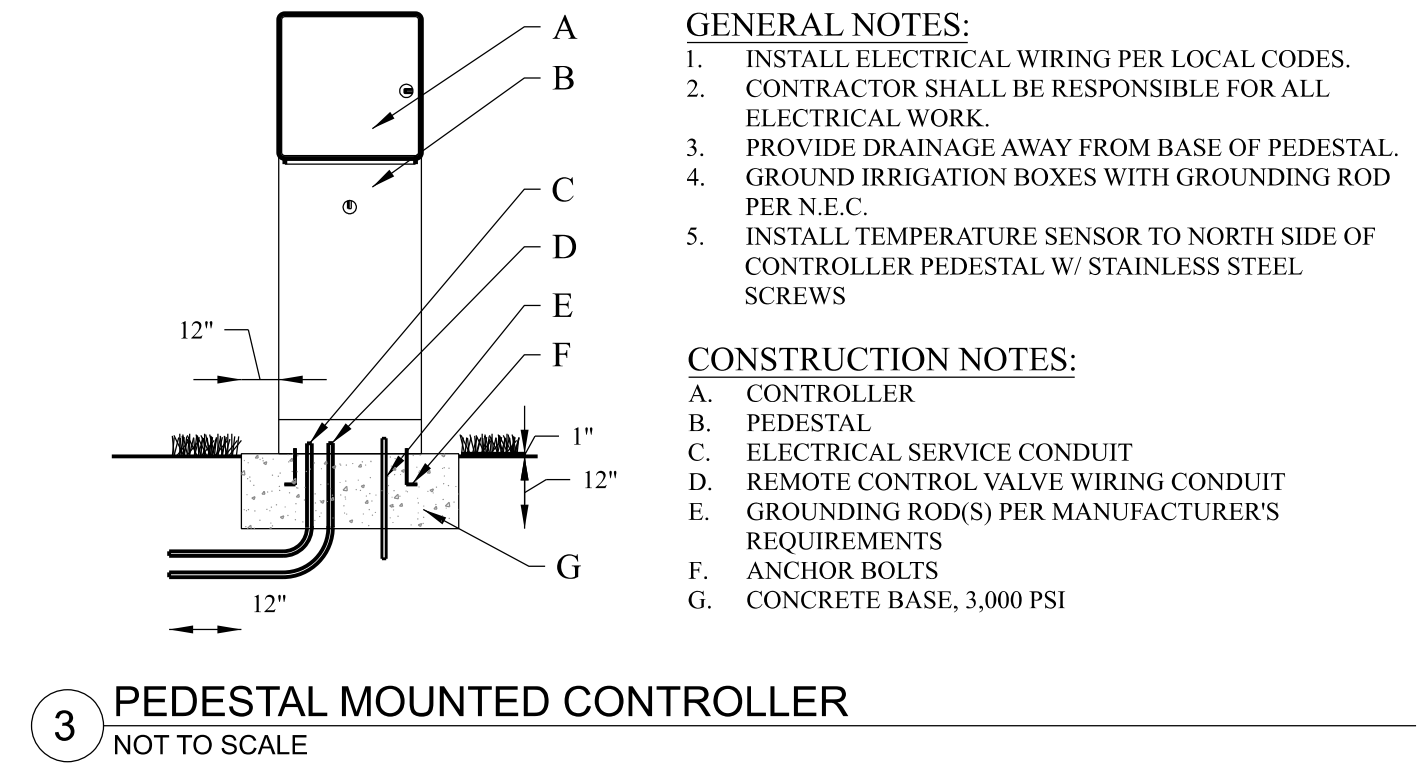
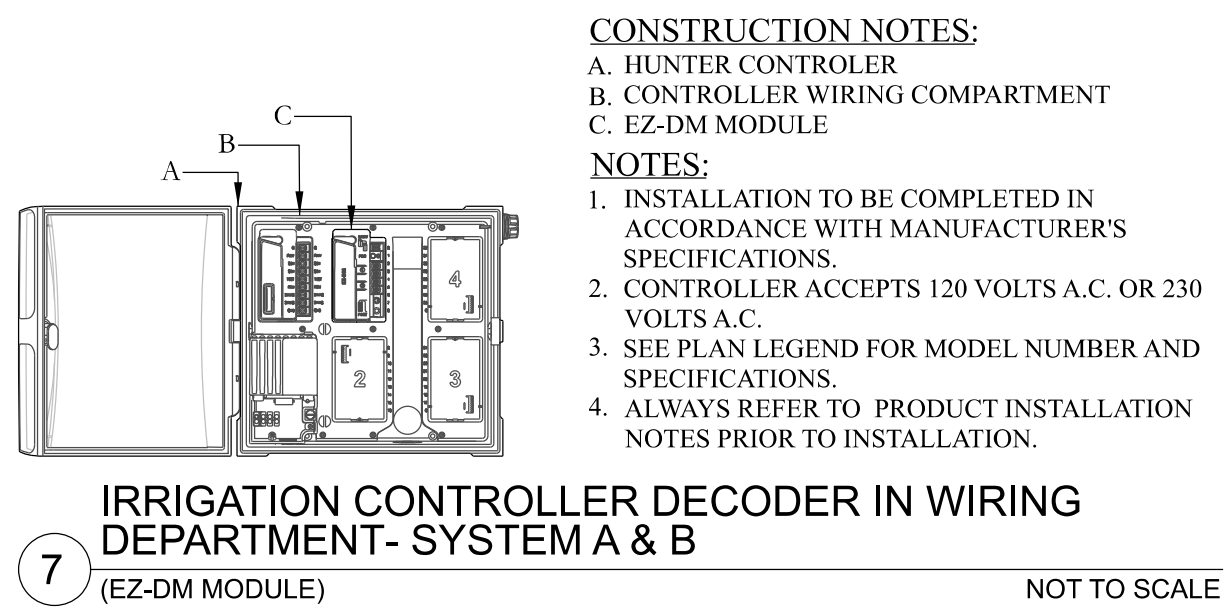
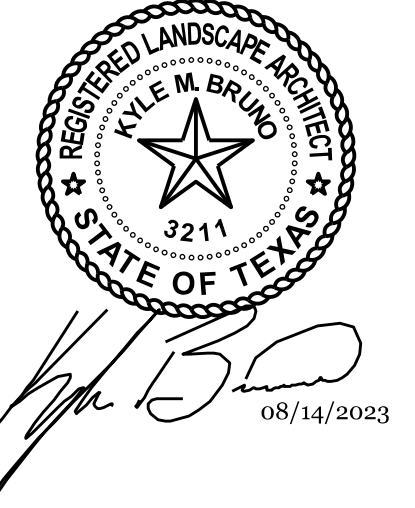
IRRIGATION NOTES (CONT.)

- 5.1.1. UPON COMPLETION OF THE IRRIGATION SYSTEMS MAINLINE, THE ENTIRE MAINLINE SHALL BE TESTED FOR A ONE-HOUR PERIOD AT 100 PSI, OR THE MAXIMUM PSI AVAILABLE IF LESS THAN 100 PSI, UNLESS OTHERWISE NOTED. PRIOR TO TESTING, THE MAINLINE SHALL BE PARTIALLY BACKFILLED LEAVING JOINTS AND CONNECTIONS EXPOSED FOR VISUAL INSPECTION. ALL DIRT SHALL BE FLUSHED FROM THE SYSTEM AND THE LINE FILLED WITH WATER TO REMOVE AIR. THE MAINLINE SHALL BE BROUGHT TO STATIC PRESSURE. A PRESSURE GAUGE AND TEMPORARY VALVE SHALL BE INSTALLED AT THE END OF THE MAINLINE TO PERMIT AIR PRESSURE TO BE APPLIED TO THE MAINLINE. PRIOR TO 100 PSI, OR THE MAXIMUM PSI AVAILABLE IF LESS THAN 100 PSI, MUST BE RETAINED FOR A ONE-HOUR PERIOD. ANY LEAKS RESULTING IN THE ONE-HOUR PRESSURE TEST SHALL BE REPAIRED AND THE SYSTEM RETESTED UNTIL THE SYSTEM PASSES THE TEST.
- 5.2. LATERAL LINE TESTING
 - 5.2.1. UPON COMPLETION OF THE LATERAL PIPING SECTIONS, EACH LATERAL SYSTEM SHALL BE PRESSURE TESTED FOR ONE HOUR AT 100 PSI, OR THE MAXIMUM PSI AVAILABLE IF LESS THAN 100 PSI, ON SYSTEMS USING FLEX NIPPLES, OR SWING JOINTS. THE LATERAL SYSTEM SHALL BE TESTED PRIOR TO INSTALLATION OF THE FLEX NIPPLES OR SWING JOINTS. PRIOR TO TESTING, THE LATERAL LINES SHALL BE PARTIALLY BACKFILLED LEAVING JOINTS AND CONNECTIONS EXPOSED FOR VISUAL INSPECTION. ALL AIR AND DIRT SHALL BE FLUSHED FROM THE SYSTEM AND ALL OPEN FITTINGS SHALL BE CAPPED. THE TESTING PROCEDURE SHALL BE THE SAME AS USED FOR THE MAIN LINE. IF AFTER ONE HOUR NO VISUAL LEAKAGE HAS OCCURRED AND THE 100-PSI, OR THE MAXIMUM PSI AVAILABLE IF LESS THAN 100 PSI, PRESSURE HAS BEEN RETAINED, THE SPRINKLER HEADS, FLEX NIPPLES AND/OR SWING JOINTS SHALL BE INSTALLED, AND THE BACKFILL OPERATION COMPLETED. ANY LEAKS RESULTING FROM THE HYDROSTATIC TEST SHALL BE REPAIRED AND THE SYSTEM RETESTED UNTIL THE SYSTEM PASSES THE TEST.
- 5.3. ADJUSTING SYSTEM
 - 5.3.1. AFTER COMPLETION OF TESTING AND INSTALLATION, THE CONTRACTOR SHALL ADJUST ALL VALVES FOR THE PROPER OPERATING PRESSURE AND ADJUST ALL SPRINKLERS AND BUBBLERS FOR UNIFORM COVERAGE AND EVEN FLOW. CONTRACTOR SHALL NOTIFY THE CONTROLLER (VALVE/STATION) AS RECOMMENDED BY THE MANUFACTURER. THE VALVE NUMBER WILL BE INDICATED ON THE CONTROLLER PANEL FOR EACH STATION. CONTRACTOR WILL PROGRAM CONTROLLER TO PROVIDE OPTIMUM SPRINKLER SYSTEM PERFORMANCE.
- 5.4. BACKFLOW PREVENTION TESTING
 - 5.4.1. THE BACKFLOW PREVENTION DEVICE SHALL BE TESTED FOLLOWING INSTALL, TO MEET OR EXCEED THE TEXAS STATE TESTING REQUIREMENTS, AND BE APPROVED BY A LICENSED BACKFLOW TECHNICIAN PRIOR TO FINAL ACCEPTANCE.
- 5.5. OPERATIONAL TESTING
 - 5.5.1. ONCE THE MAINLINE AND THE LATERAL LINES HAVE PASSED THEIR TESTS, AND THE SYSTEM IS COMPLETELY OPERATIONAL, A COVERAGE TEST AND DEMONSTRATION OF THE SYSTEM IS REQUIRED. THE IRRIGATION CONTRACTOR MUST DEMONSTRATE TO THE OWNER, OR THE OWNER'S REPRESENTATIVE, THAT PROPER COVERAGE IS OBTAINED AND THE SYSTEM WORKS AUTOMATICALLY PROPER. THIS DEMONSTRATION REQUIRES EACH ZONE TO BE TURNED ON, IN THE PROPER SEQUENCE AS SHOWN ON THE PLANS, FROM THE CONTROLLER. EACH ZONE WILL BE INSPECTED FOR PROPER COVERAGE AND FUNCTION. THE DETERMINATION OF PROPER COVERAGE AND FUNCTION IS AT THE SOLE DISCRETION OF THE OWNER OR THE OWNER'S REPRESENTATIVE.

INSPECTION

- 6.1. THE FOLLOWING INSPECTIONS SHALL BE THE MINIMUM REQUIRED INSPECTIONS DURING THE COURSE OF CONSTRUCTION. ADDITIONAL INSPECTIONS SHALL BE MADE AT ANY TIME AT THE DISCRETION OF THE INSPECTOR. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE INSPECTOR, IN WRITING, 48 HOURS IN ADVANCE OF EACH REQUIRED INSPECTION. THE SEQUENCE OF REQUIRED INSPECTIONS SHALL NOT BE CHANGED FROM THE SEQUENCE LISTED BELOW. THE CONTRACTOR SHALL NOT PROCEED WITH WORK OF THE NEXT SEQUENCE UNTIL WRITTEN APPROVAL OF THE INSPECTOR. IN THE EVENT THE CONTRACTOR SHALL ATACH A

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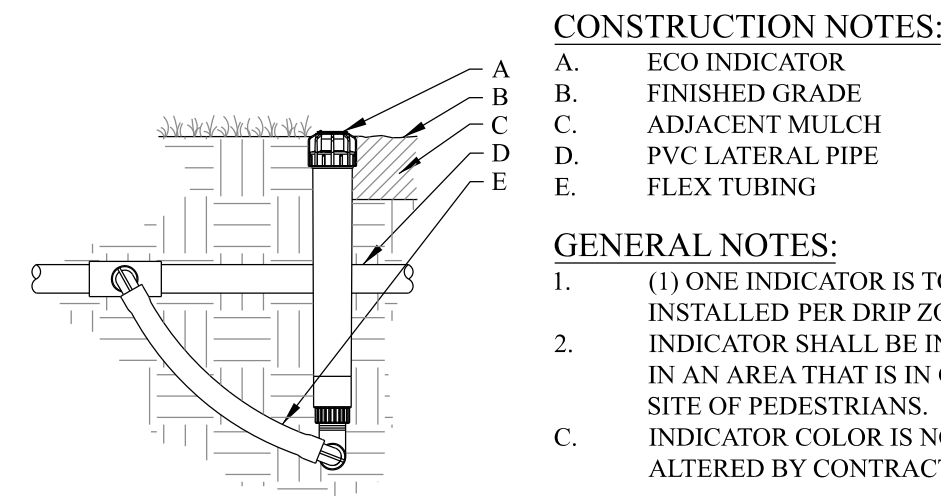


LANDSCAPE DEVELOPMENT
 Irrigation Details
 Newhaven Residential Development
 Manor, Travis County TX.

NO.	DATE:	REVISION:
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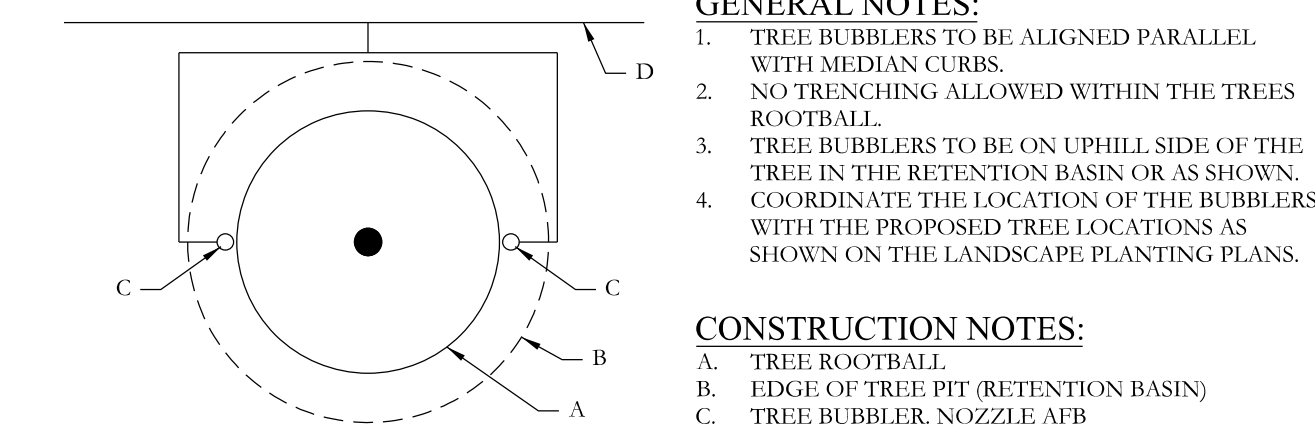
CONSTRUCTION NOTES:

- A. ECO INDICATOR
- B. FINISHED GRADE
- C. ADJACENT MULCH
- D. PVC LATERAL PIPE
- E. FLEX TUBING

GENERAL NOTES:

1. (1) ONE INDICATOR IS TO BE INSTALLED PER DRIP ZONE.
2. INDICATOR SHALL BE INSTALLED IN AN AREA THAT IS IN CLEAR SITE OF PEDESTRIANS.
3. INDICATOR COLOR IS NOT TO BE ALTERED BY CONTRACTOR.

16 ECO INDICATOR - FLEX TUBING
 NOT TO SCALE



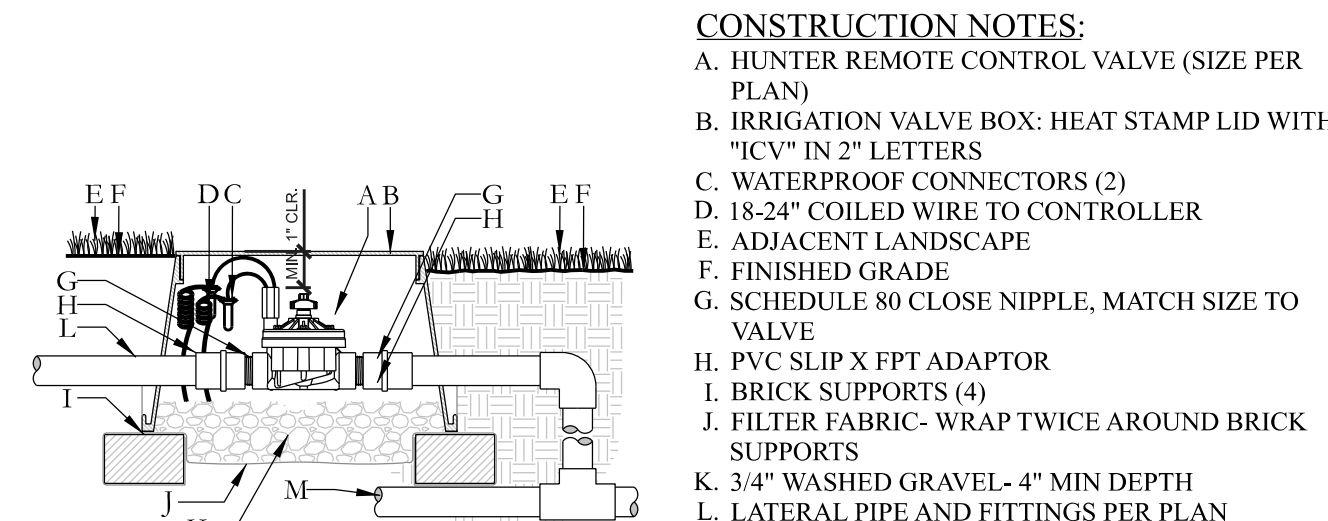
GENERAL NOTES:

1. TREE BUBBLERS TO BE ALIGNED PARALLEL WITH MEDIAN CURBS.
2. NO TRENCHING ALLOWED WITHIN THE TREES ROOTBALL.
3. TREE BUBBLERS TO BE ON UPHILL SIDE OF THE TREE IN THE RETENTION BASIN OR AS SHOWN.
4. COORDINATE THE LOCATION OF THE BUBBLERS WITH THE PROPOSED TREE LOCATIONS AS SHOWN ON THE LANDSCAPE PLANTING PLANS.

CONSTRUCTION NOTES:

- A. TREE ROOTBALL
- B. EDGE OF TREE PIT (RETENTION BASIN)
- C. TREE BUBBLER NOZZLE AFB
- D. LATERAL LINE (SIZED AS SPEC'D)

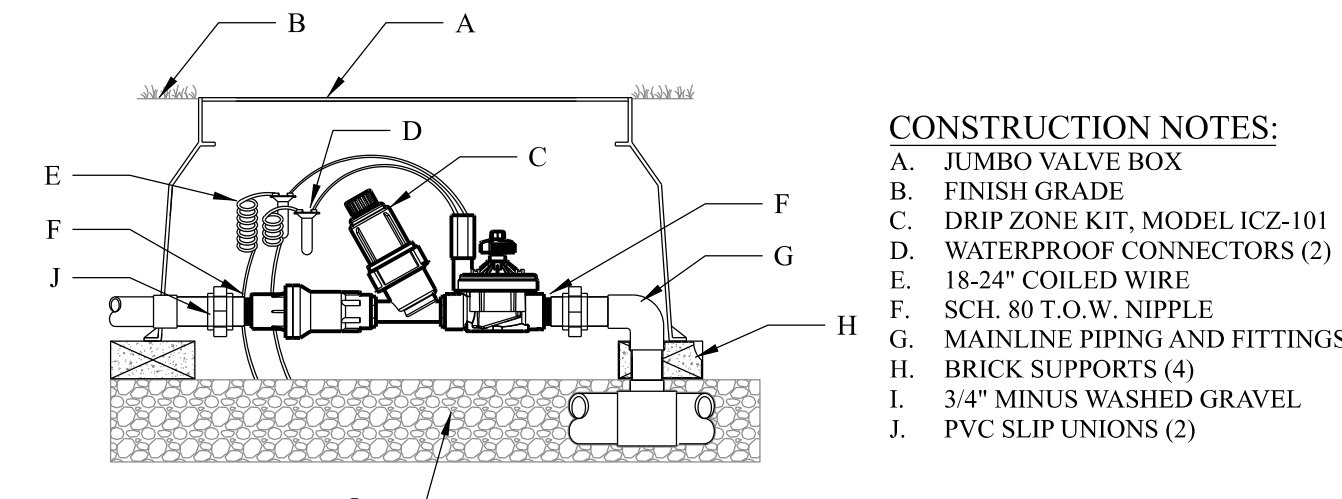
12 TREE BUBBLER PLAN
 NOT TO SCALE



CONSTRUCTION NOTES:

- A. HUNTER REMOTE CONTROL VALVE (SIZE PER PLAN)
- B. IRRIGATION VALVE BOX: HEAT STAMP LID WITH "ICV" IN 2" LETTERS
- C. WATERPROOF CONNECTORS (2)
- D. 18-24" COILED WIRE TO CONTROLLER
- E. ADJACENT LANDSCAPE
- F. FINISHED GRADE
- G. SCHEDULE 80 CLOSE NIPPLE, MATCH SIZE TO VALVE
- H. PVC SLIP X FPT ADAPTOR
- I. BRICK SUPPORTS (4)
- J. FILTER FABRIC - WRAP TWICE AROUND BRICK SUPPORTS
- K. 3/4" WASHED GRAVEL - 4" MIN DEPTH
- L. LATERAL PIPE AND FITTINGS PER PLAN
- M. MAINLINE PIPE AND FITTINGS PER PLAN

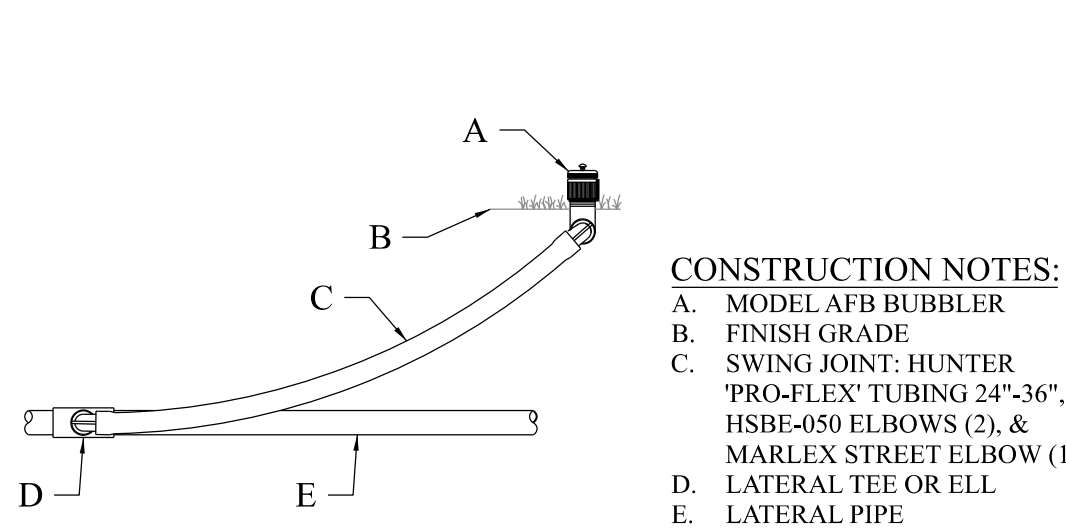
8 ICV IN-LINE VALVE
 (SIZE PER PLAN) NOT TO SCALE



CONSTRUCTION NOTES:

- A. JUMBO VALVE BOX
- B. FINISH GRADE
- C. DRIP ZONE KIT, MODEL ICZ-101
- D. WATERPROOF CONNECTORS (2)
- E. 18-24" COILED WIRE
- F. SCH. 80 T.O.W. NIPPLE
- G. MAINLINE PIPING AND FITTINGS
- H. BRICK SUPPORTS (4)
- I. 3/4" MINUS WASHED GRAVEL
- J. PVC SLIP UNIONS (2)

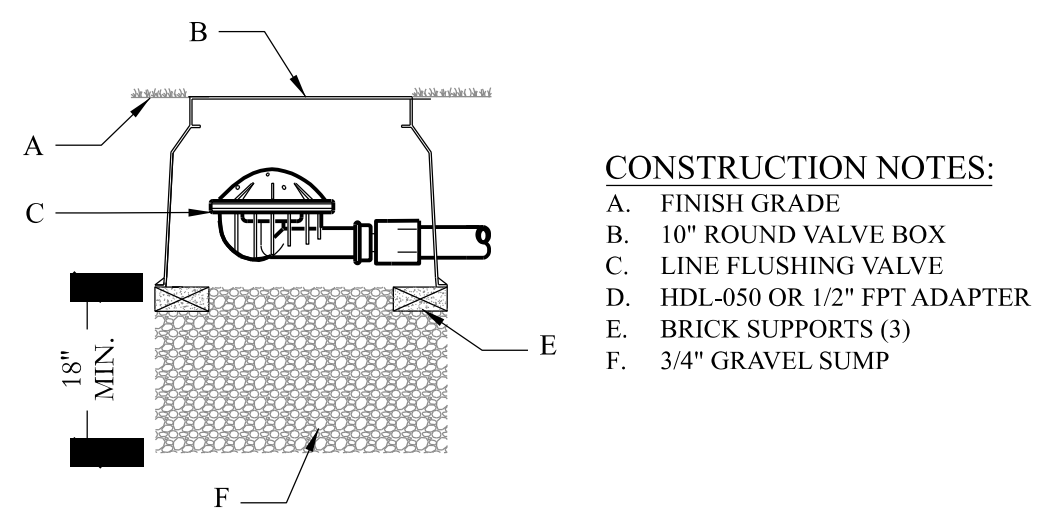
4 DRIP CONTROL ZONE VALVE
 NOT TO SCALE



CONSTRUCTION NOTES:

- A. MODEL AFB BUBBLER
- B. FINISH GRADE
- C. SWING JOINT: HUNTER "PRO-FLEX" TUBING 24"-36", HSBE-050 ELBOWS (2), & MARLEX STREET ELBOW (1)
- D. LATERAL TEE OR ELL
- E. LATERAL PIPE

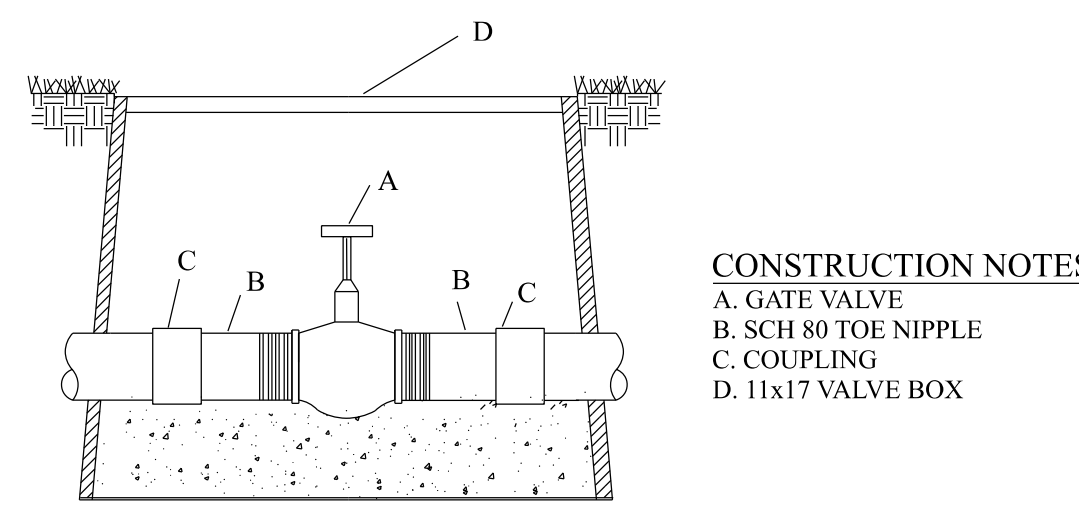
15 AFB BUBBLER
 NOT TO SCALE



CONSTRUCTION NOTES:

- A. FINISH GRADE
- B. 10" ROUND VALVE BOX
- C. LINE FLUSHING VALVE
- D. HDL-050 OR 12" FPT ADAPTOR
- E. BRICK SUPPORTS (3)
- F. 3/4" GRAVEL SUMP

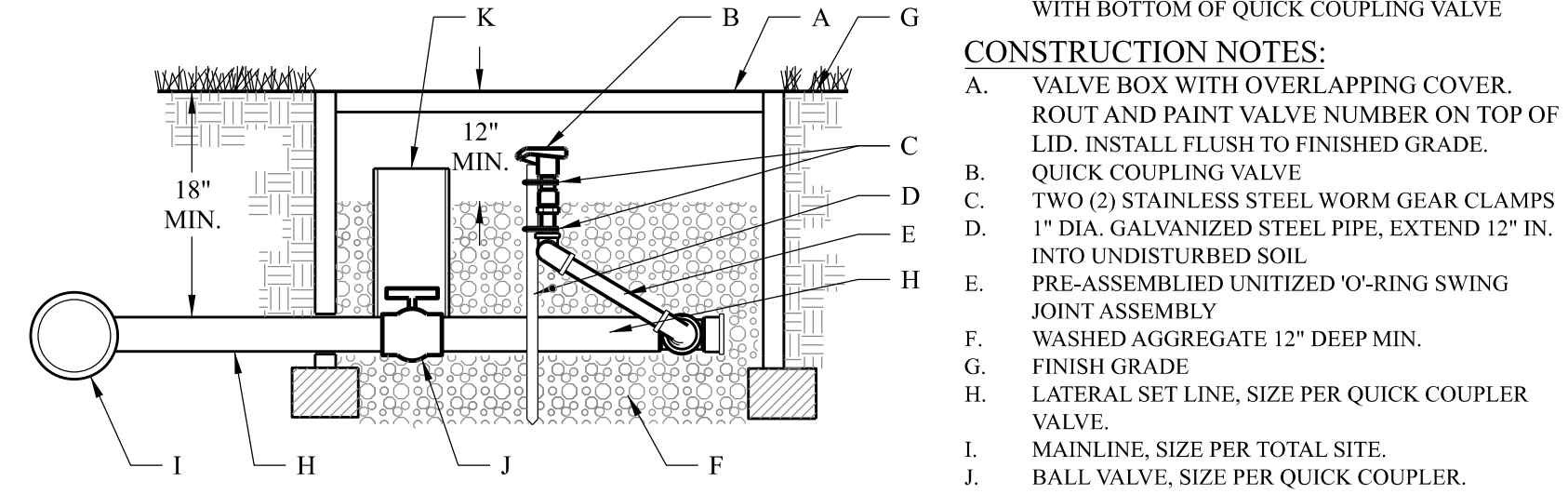
11 DRIP IRRIGATION - FLUSH VALVE
 NOT TO SCALE



CONSTRUCTION NOTES:

- A. GATE VALVE
- B. SCH 80 NIPPLE
- C. COUPLING
- D. 11x17 VALVE BOX

7 GATE VALVE
 NOT TO SCALE



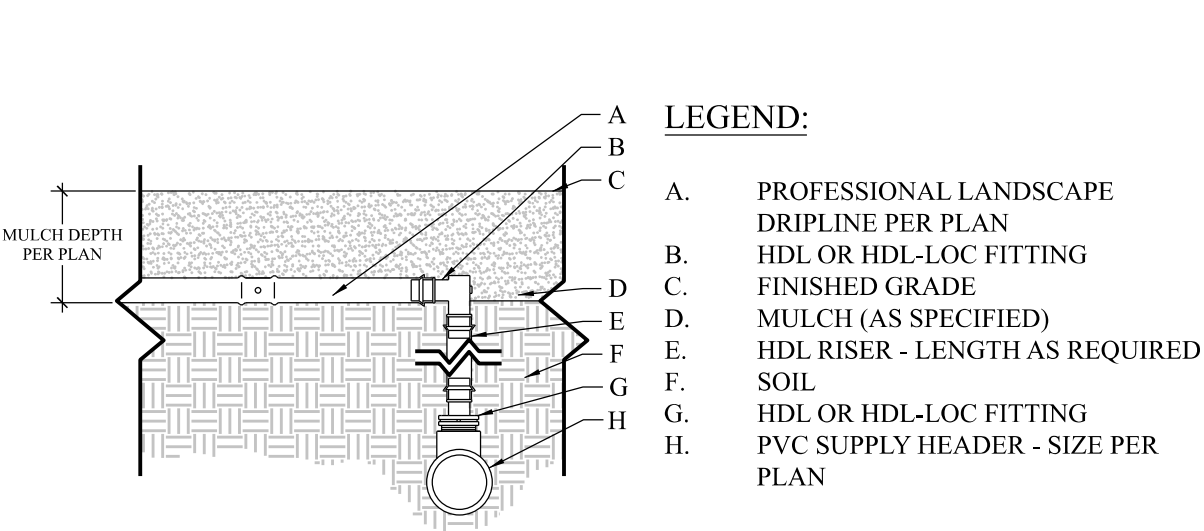
GENERAL NOTES:

1. INSTALL BRICK AROUND THE BASE OF EACH VALVE BOX AND LEVEL ACCORDINGLY.
2. INSTALL 1" DIA. WASHED AGGREGATE FLUSH WITH BOTTOM OF QUICK COUPLING VALVE

CONSTRUCTION NOTES:

- A. VALVE BOX WITH OVERLAPPING COVER. ROUT AND PAINT VALVE NUMBER ON TOP OF LID. INSTALL FLUSH TO FINISHED GRADE.
- B. QUICK COUPLING VALVE
- C. TWO (2) STAINLESS STEEL WORM GEAR CLAMPS
- D. 1" DIA. GALVANIZED STEEL PIPE, EXTEND 12" IN. INTO UNDISTURBED SOIL
- E. PRE-ASSEMBLED UNITIZED O-RING SWING JOINT ASSEMBLY
- F. WASHED AGGREGATE 12" DEEP MIN.
- G. FINISH GRADE
- H. LATERAL SET LINE, SIZE PER QUICK COUPLER VALVE.
- I. MAINLINE, SIZE PER TOTAL SITE.
- J. BALL VALVE, SIZE PER QUICK COUPLER.
- K. 4 INCH DIA. SLEEVE

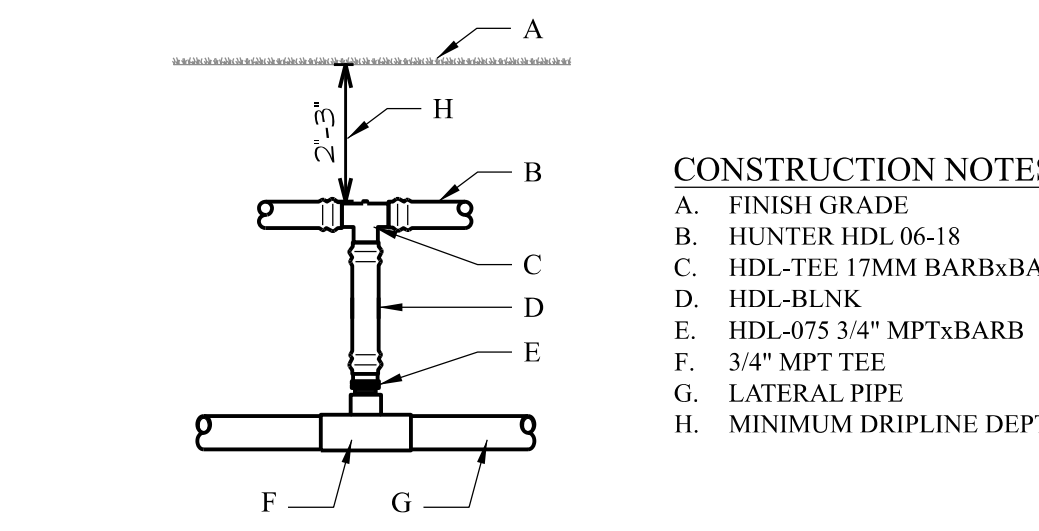
3 QUICK COUPLING VALVE
 NOT TO SCALE



LEGEND:

- A. PROFESSIONAL LANDSCAPE DRIPLINE PER PLAN
- B. HDL OR HDL-LOC FITTING
- C. FINISHED GRADE
- D. MULCH (AS SPECIFIED)
- E. HDL RISER - LENGTH AS REQUIRED
- F. SOIL
- G. HDL OR HDL-LOC FITTING
- H. PVC SUPPLY HEADER - SIZE PER PLAN

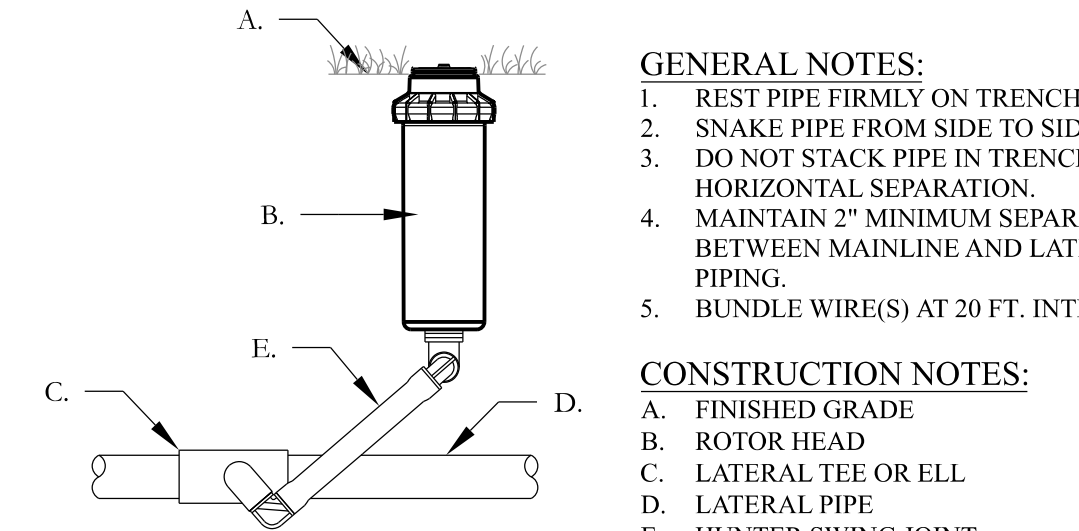
14 CONNECTION W/ DRIPLINE ELBOW
 LANDSCAPE DRIPLINE NOT TO SCALE



CONSTRUCTION NOTES:

- A. FINISH GRADE
- B. HUNTER HDL 06-18
- C. HDL-TEE 17MM BARBxBARB
- D. HDL-BLNK
- E. HDL-075 3/4" MPTxBARB
- F. 3/4" MPT TEE
- G. LATERAL PIPE
- H. MINIMUM DRIPLINE DEPTH

10 BELOW GRADE START CONNECTION
 NOT TO SCALE



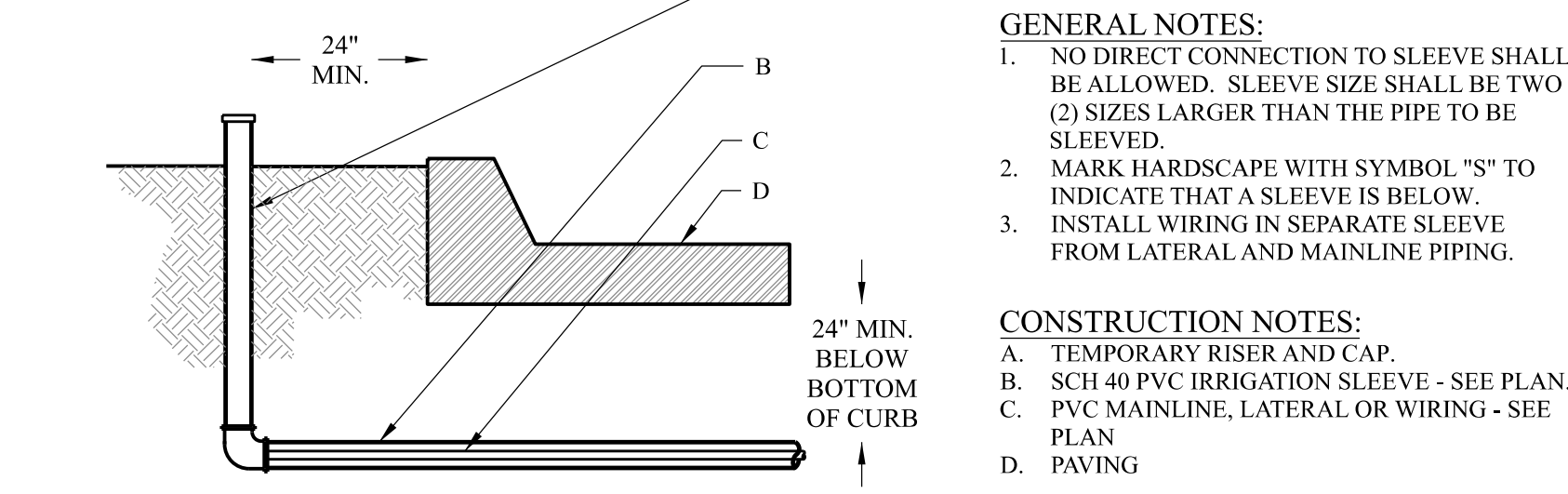
GENERAL NOTES:

1. REST PIPE FIRMLY ON TRENCH BOTTOM.
2. SNAKE PIPE FROM SIDE TO SIDE.
3. DO NOT STACK PIPE IN TRENCH. PROVIDE HORIZONTAL SEPARATION.
4. MAINTAIN 2" MINIMUM SEPARATION BETWEEN MAINLINE AND LATERAL LINE PIPING.
5. BUNDLE WIRE(S) AT 20 FT. INTERVALS.

CONSTRUCTION NOTES:

- A. FINISHED GRADE
- B. ROTOR HEAD
- C. LATERAL TEE OR ELL
- D. LATERAL PIPE
- E. HUNTER SWING JOINT

6 ROTOR HEAD
 NOT TO SCALE



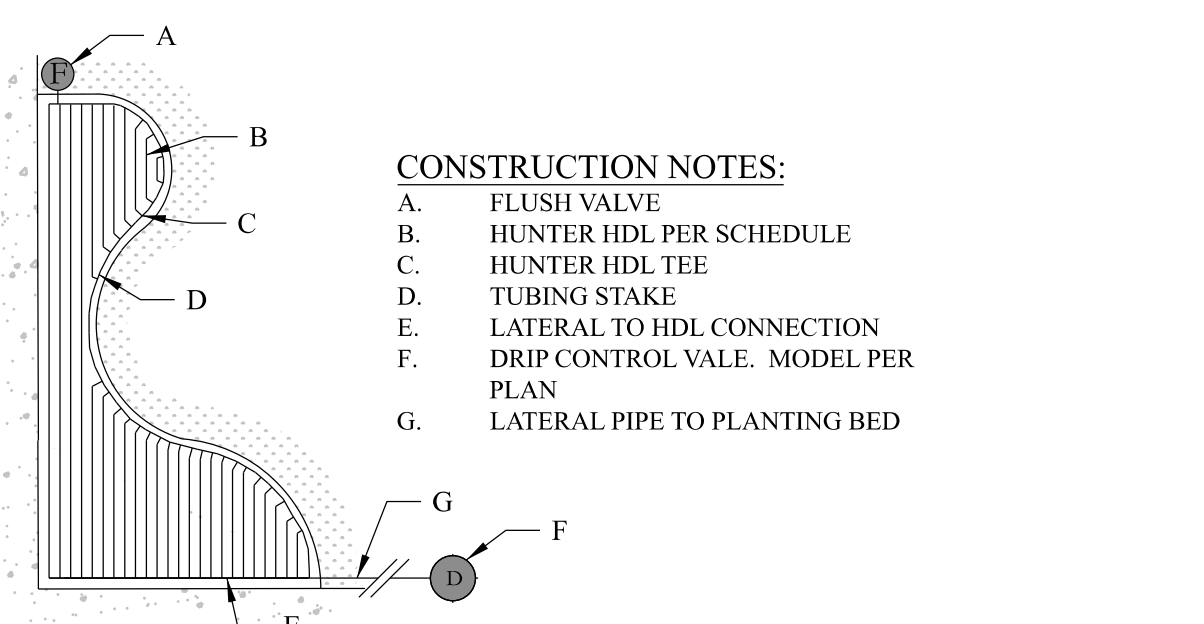
GENERAL NOTES:

1. NO DIRECT CONNECTION TO SLEEVE SHALL BE ALLOWED. SLEEVE SIZE SHALL BE TWO (2) SIZES LARGER THAN THE PIPE TO BE SLEEVED.
2. MARK HARDSCAPE WITH SYMBOL "S" TO INDICATE THAT A SLEEVE IS BELOW.
3. INSTALL WIRING IN SEPARATE SLEEVE FROM LATERAL AND MAINLINE PIPING.

CONSTRUCTION NOTES:

- A. TEMPORARY RISER AND CAP.
- B. SCH 40 PVC IRRIGATION SLEEVE - SEE PLAN.
- C. PVC MAINLINE, LATERAL OR WIRING - SEE PLAN
- D. PAVING

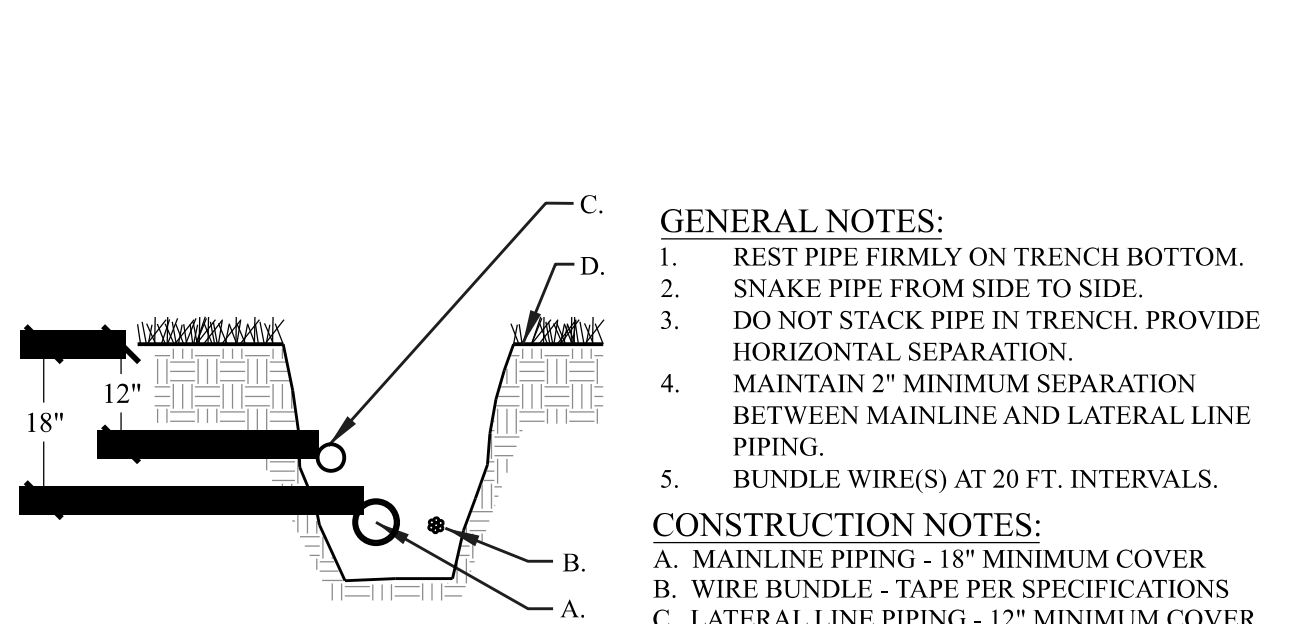
2 IRRIGATION SLEEVES
 NOT TO SCALE



CONSTRUCTION NOTES:

- A. FLUSH VALVE
- B. HUNTER HDL PER SCHEDULE
- C. HUNTER HDL TEE
- D. TUBING STAKE
- E. LATERAL TO HDL CONNECTION
- F. DRIP CONTROL VALE, MODEL PER PLAN
- G. LATERAL PIPE TO PLANTING BED

13 DRIP IRRIGATION - BED
 NOT TO SCALE



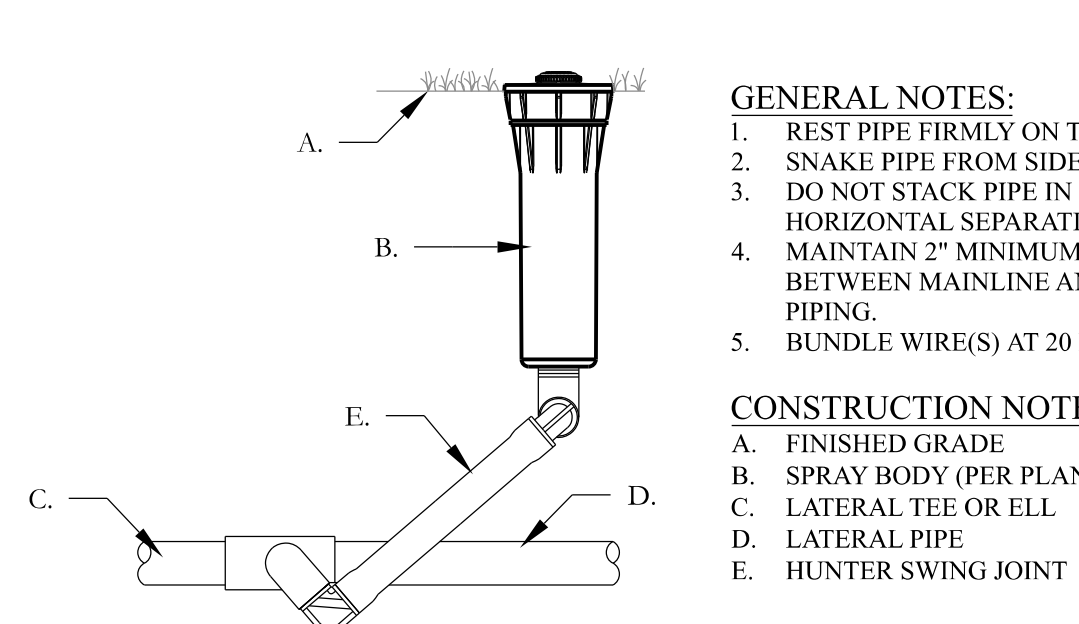
GENERAL NOTES:

1. REST PIPE FIRMLY ON TRENCH BOTTOM.
2. SNAKE PIPE FROM SIDE TO SIDE.
3. DO NOT STACK PIPE IN TRENCH. PROVIDE HORIZONTAL SEPARATION.
4. MAINTAIN 2" MINIMUM SEPARATION BETWEEN MAINLINE AND LATERAL LINE PIPING.
5. BUNDLE WIRE(S) AT 20 FT. INTERVALS.

CONSTRUCTION NOTES:

- A. MAINLINE PIPING - 18" MINIMUM COVER
- B. WIRE BUNDLE - TAPE PER SPECIFICATIONS
- C. LATERAL LINE PIPING - 12" MINIMUM COVER
- D. FINISH GRADE

9 IRRIGATION TRENCH
 NOT TO SCALE



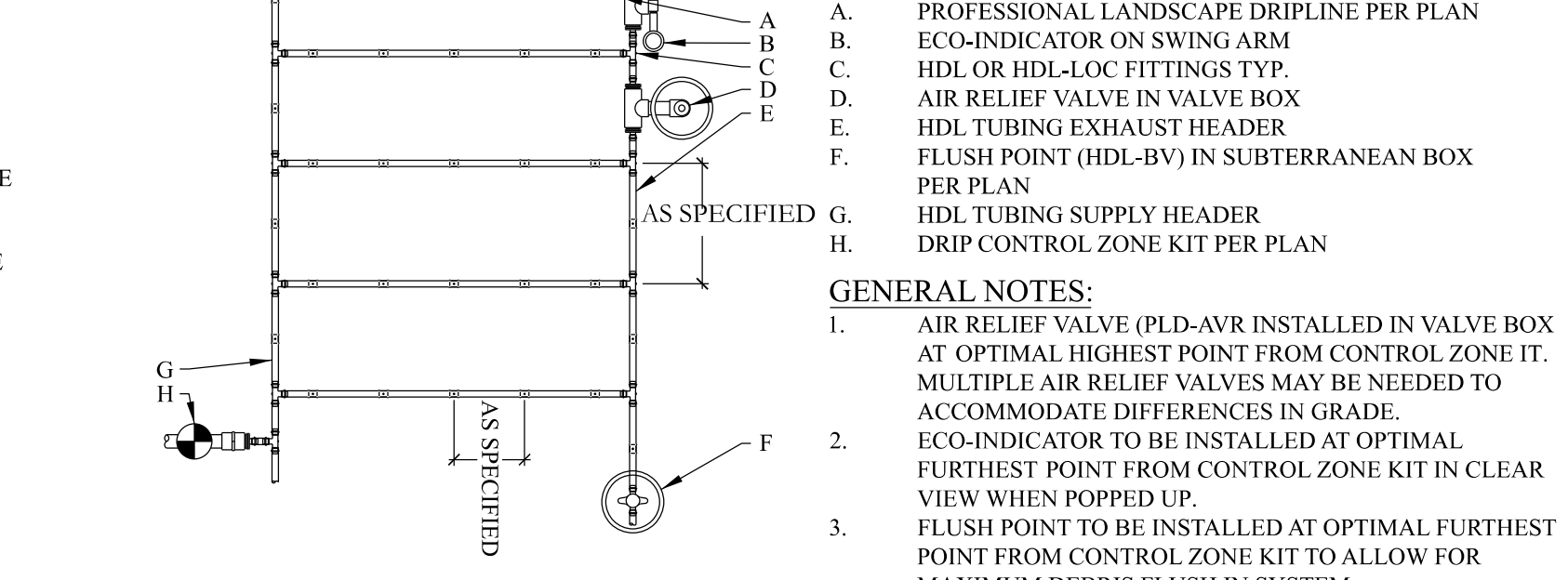
GENERAL NOTES:

1. REST PIPE FIRMLY ON TRENCH BOTTOM.
2. SNAKE PIPE FROM SIDE TO SIDE.
3. DO NOT STACK PIPE IN TRENCH. PROVIDE HORIZONTAL SEPARATION.
4. MAINTAIN 2" MINIMUM SEPARATION BETWEEN MAINLINE AND LATERAL LINE PIPING.
5. BUNDLE WIRE(S) AT 20 FT. INTERVALS.

CONSTRUCTION NOTES:

- A. FINISHED GRADE
- B. SPRAY BODY (PER PLAN)
- C. LATERAL TEE OR ELL
- D. LATERAL PIPE
- E. HUNTER SWING JOINT

5 PRS40-CV - MP ROTATOR & PRO-SPRAY HEAD
 NOT TO SCALE



CONSTRUCTION NOTES:

- A. PROFESSIONAL LANDSCAPE DRIPLINE PER PLAN
- B. ECO-INDICATOR ON SWING ARM
- C. HDL OR HDL-LOC FITTINGS TYP.
- D. AIR RELIEF VALVE IN VALVE BOX
- E. HDL TUBING EXHAUST HEADER
- F. FLUSH POINT (HDL-BV) IN SUBTERRANEAN BOX PER PLAN
- G. HDL TUBING SUPPLY HEADER
- H. DRIP CONTROL ZONE KIT PER PLAN

GENERAL NOTES:

1. AIR RELIEF VALVE (PLD-AVR INSTALLED IN VALVE BOX AT OPTIMAL HIGHEST POINT FROM CONTROL ZONE IT. MULTIPLE AIR RELIEF VALVES MAY BE NEEDED TO ACCOMMODATE DIFFERENCES IN GRADE.
2. ECO-INDICATOR TO BE INSTALLED AT OPTIMAL FURTHEST POINT FROM CONTROL ZONE KIT IN CLEAR VIEW WHEN POPPED UP.
3. FLUSH POINT TO BE INSTALLED AT OPTIMAL FURTHEST POINT FROM CONTROL ZONE KIT TO ALLOW FOR MAXIMUM DEBRIS FLUSH IN SYSTEM.

1 PLANTING BED
 PROFESSIONAL LANDSCAPE DRIPLINE NOT TO SCALE