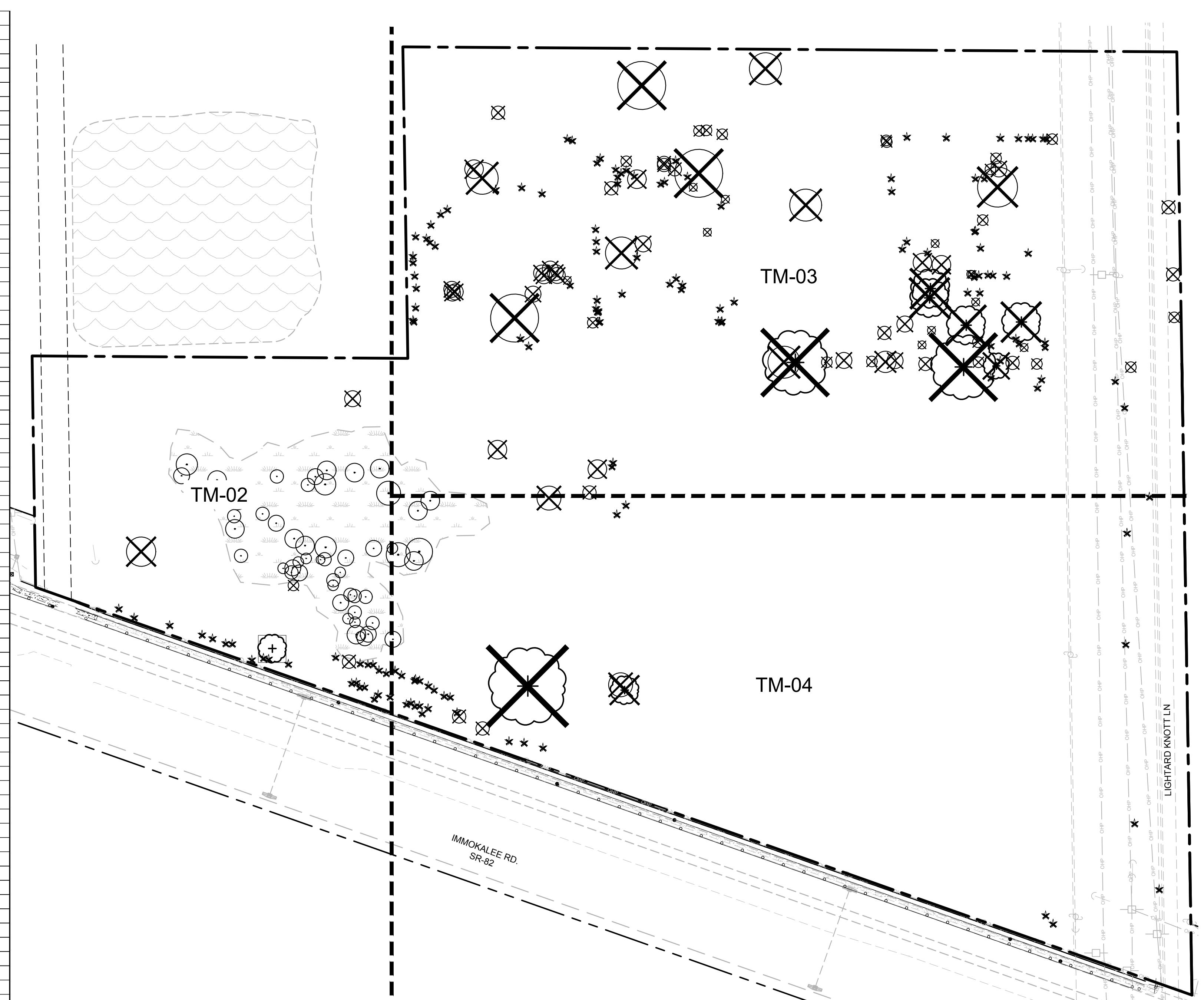


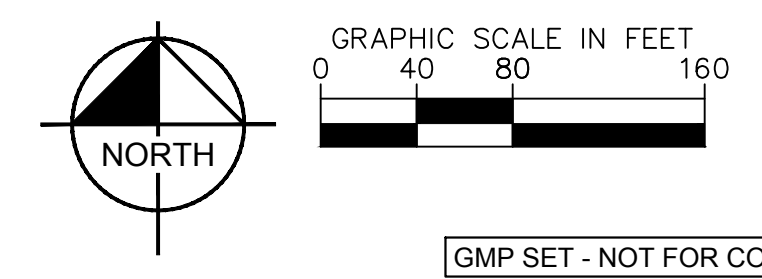
Printed By: Brenda_Jessica_Sheet Set: KHA_Layout INDEX January 05, 2023 05:56:04pm K:\kha_civil\14865\1002 - milhaus of 82 - roadwork & site planning\Civil\plan sheets\TM-01 TREE MITIGATION PLAN.dwg
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TREE DATA TABLE			
TREE NUMBER	SPECIES	DBH	STATUS
1	UNKNOWN	22"	REMOVE
2	OAK	22"	PRESERVE
3	CYPRESS	10"	REMOVE
4	OAK	10"	REMOVE
5	OAK	10"	REMOVE
6	OAK	22"	REMOVE
7	OAK	18"	REMOVE
8	OAK	60"	REMOVE
9	CYPRESS	10"	REMOVE
10	CYPRESS	18"	REMOVE
11	CYPRESS	14"	REMOVE
12	CYPRESS	14"	REMOVE
13	CYPRESS	12"	REMOVE
14	UNKNOWN	36"	REMOVE
15	UNKNOWN	12"	REMOVE
16	UNKNOWN	12"	REMOVE
17	UNKNOWN	12"	REMOVE
18	UNKNOWN	12"	REMOVE
19	UNKNOWN	12"	REMOVE
20	UNKNOWN	12"	REMOVE
21	UNKNOWN	12"	REMOVE
22	UNKNOWN	12"	REMOVE
23	UNKNOWN	6"	REMOVE
24	UNKNOWN	12"	REMOVE
25	UNKNOWN	8"	REMOVE
26	UNKNOWN	24"	REMOVE
27	UNKNOWN	12"	REMOVE
28	UNKNOWN	24"	REMOVE
29	UNKNOWN	14"	REMOVE
30	UNKNOWN	10"	REMOVE
31	UNKNOWN	36"	REMOVE
32	UNKNOWN	10"	REMOVE
33	UNKNOWN	14"	REMOVE
34	UNKNOWN	8"	REMOVE
35	UNKNOWN	10"	REMOVE
36	UNKNOWN	10"	REMOVE
37	UNKNOWN	36"	REMOVE
38	UNKNOWN	8"	REMOVE
39	UNKNOWN	8"	REMOVE
40	UNKNOWN	8"	REMOVE
41	UNKNOWN	24"	REMOVE
42	UNKNOWN	24"	REMOVE
43	UNKNOWN	6"	REMOVE
44	UNKNOWN	6"	REMOVE
45	UNKNOWN	6"	REMOVE
46	UNKNOWN	6"	REMOVE
47	UNKNOWN	6"	REMOVE
48	UNKNOWN	6"	REMOVE
49	UNKNOWN	14"	REMOVE
50	UNKNOWN	14"	REMOVE
51	UNKNOWN	6"	REMOVE
52	UNKNOWN	6"	REMOVE
53	UNKNOWN	6"	REMOVE
54	UNKNOWN	12"	REMOVE
55	UNKNOWN	16"	REMOVE
56	UNKNOWN	8"	REMOVE
57	UNKNOWN	8"	REMOVE
58	UNKNOWN	8"	REMOVE
59	UNKNOWN	8"	REMOVE
60	UNKNOWN	8"	REMOVE
61	UNKNOWN	8"	REMOVE
62	UNKNOWN	6"	REMOVE
63	UNKNOWN	10"	REMOVE
64	OAK	20"	REMOVE
65	OAK	50"	REMOVE
66	OAK	30"	REMOVE
67	OAK	30"	REMOVE
68	OAK	30"	REMOVE
69	OAK	30"	REMOVE
70	OAK	10"	REMOVE
71	OAK	50"	REMOVE
72	UNKNOWN	24"	REMOVE
73	UNKNOWN	12"	REMOVE
74	UNKNOWN	12"	REMOVE
75	UNKNOWN	8"	REMOVE
76	UNKNOWN	30"	REMOVE
77	UNKNOWN	8"	REMOVE
78	UNKNOWN	8"	REMOVE
79	UNKNOWN	8"	REMOVE
80	UNKNOWN	12"	REMOVE
81	MULTI-TRUNK PALM	N/A	REMOVE
82	MULTI-TRUNK PALM	N/A	REMOVE
83	MULTI-TRUNK PALM	N/A	REMOVE
84	MULTI-TRUNK PALM	N/A	REMOVE
85	PALM	N/A	REMOVE
86	MULTI-TRUNK PALM	N/A	REMOVE
87	MULTI-TRUNK PALM	N/A	REMOVE
88	MULTI-TRUNK PALM	N/A	REMOVE
89	MULTI-TRUNK PALM	N/A	REMOVE
90	MULTI-TRUNK PALM	N/A	REMOVE
91	MULTI-TRUNK PALM	N/A	REMOVE
92	MULTI-TRUNK PALM	N/A	REMOVE
93	MULTI-TRUNK PALM	N/A	REMOVE
94	MULTI-TRUNK PALM	N/A	REMOVE
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99	MULTI-TRUNK PALM	N/A	REMOVE
100	MULTI-TRUNK PALM	N/A	REMOVE
101	MULTI-TRUNK PALM	N/A	REMOVE
102	UNKNOWN	8"	REMOVE
103	UNKNOWN	8"	REMOVE
104	PALM	N/A	REMOVE
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106	CABBAGE PALM	N/A	REMOVE
107	CABBAGE PALM	N/A	REMOVE
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135	PALM	N/A	REMOVE
136	PALM	N/A	REMOVE
137	UNKNOWN	8"	REMOVE
138	UNKNOWN	10"	REMOVE
139	UNKNOWN	10"	REMOVE
140	PALM	N/A	REMOVE
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170	PALM	N/A	REMOVE
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173	UNKNOWN	10"	REMOVE
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230	PALM	N/A	REMOVE
231	CABBAGE PALM	N/A	REMOVE
232	CABBAGE PALM	N/A	REMOVE
233	CABBAGE PALM	N/A	REMOVE
234	CABBAGE PALM	N/A	REMOVE
237	CYPRESS	16"	PRESERVE
238	CYPRESS	16"	PRESERVE
239	CYPRESS	16"	PRESERVE
240	CYPRESS	16"	PRESERVE
241	CYPRESS	12"	PRESERVE
242	CYPRESS	12"	PRESERVE
243	CYPRESS	12"	PRESERVE
244	CYPRESS	12"	PRESERVE
245	CYPRESS	12"	PRESERVE
246	CYPRESS	12"	PRESERVE
247	CYPRESS	12"	PRESERVE
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278	CYPRESS	8"	PRESERVE
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280	CYPRESS	8"	REMOVE
281	CYPRESS	8"	PRESERVE
282	CYPRESS	8"	PRESERVE
283	CYPRESS	8"	PRESERVE
284	CYPRESS	8"	PRESERVE
285	CYPRESS	8"	PRESERVE
286	CYPRESS	6"	PRESERVE
287	CYPRESS	18"	PRESERVE
288	CYPRESS	20"	PRESERVE
289	CYPRESS	18"	PRESERVE



TREE MITIGATION CALCULATIONS		
	REQUIRED	PROVIDED
TREE MITIGATION		
AN EXISTING NATIVE TREE THAT IS 10-19" DBH MUST BE REPLACED WITH A MINIMUM 14' HT NATIVE TREE.	10 NATIVE TREES 10-19" DBH TO BE REMOVED = 10 14' HT MITIGATION TREES	MITIGATION ACCOMPLISHED WITH EXISTING TREE CREDITS.
AN EXISTING HERITAGE TREE MUST BE REPLACED WITH A MINIMUM 20' HT NATIVE TREE.	8 HERITAGE TREES TO BE REMOVED = 8 20' HT MITIGATION TREES	
SECTION 138-3		
TREE CREDITS		
EACH 4 - 20" DBH EXISTING TREE PRESERVED IN PLACE WILL RECEIVE 5 TREE CREDITS.		52 4-20" DBH EXISTING TREES PRESERVED = 52 TREE CREDITS
SECTION 138-3		

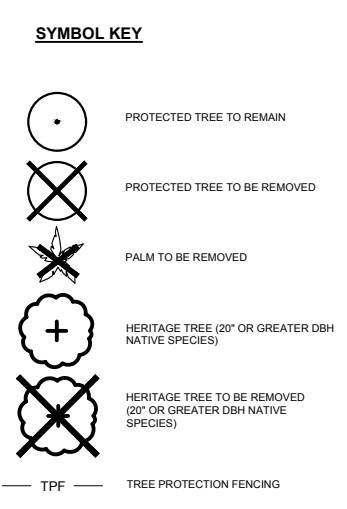
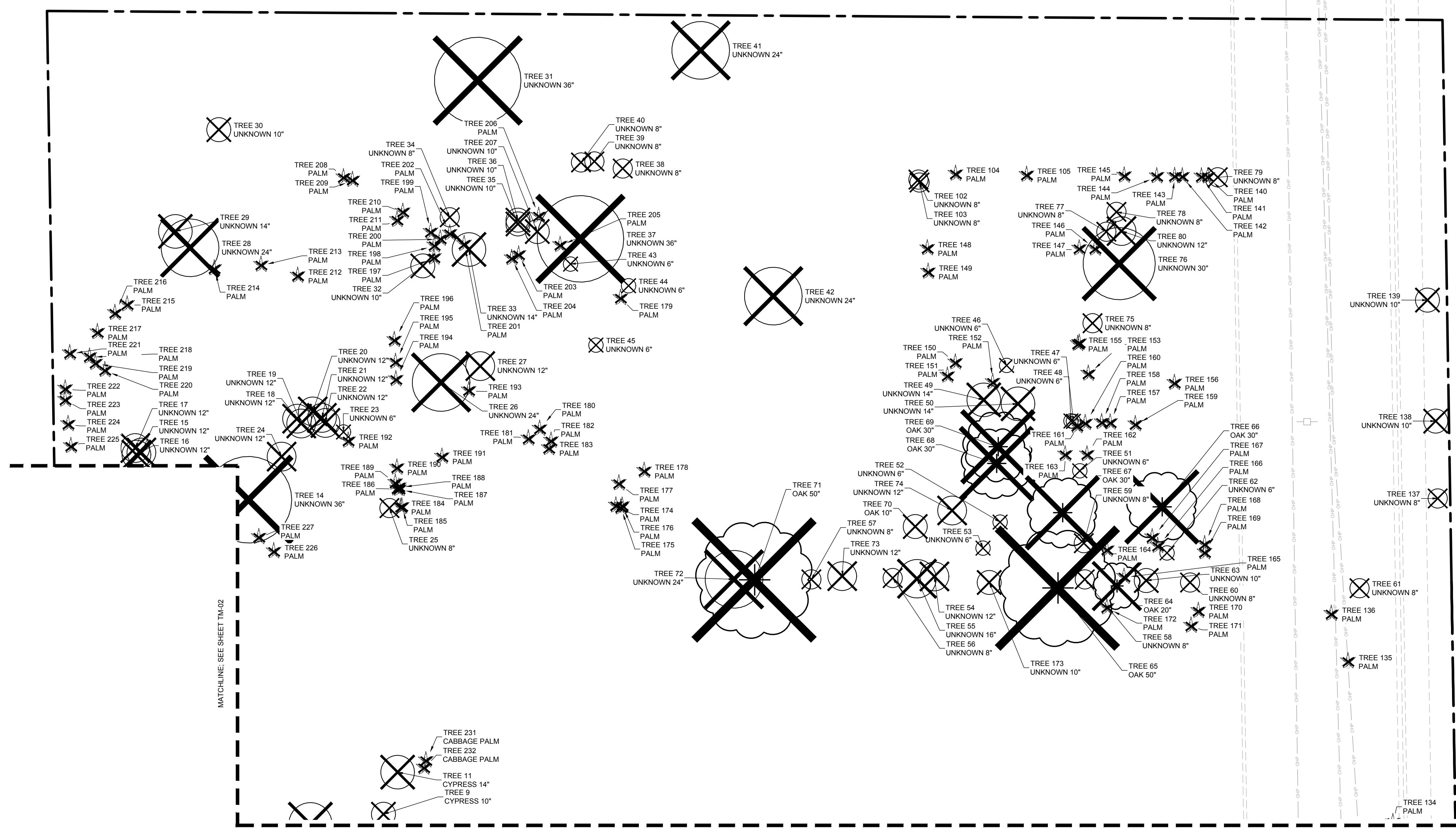
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 SUNSHINE STATE ONE CALL OF FLORIDA, INC.



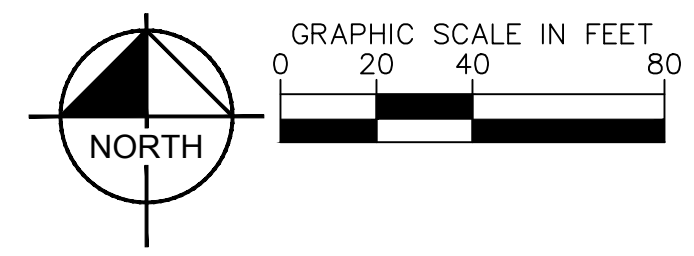
GMP SET - NOT FOR CONSTRUCTION

 200 CENTRAL AVENUE, SUITE 600 ST. PETERSBURG, FL 33701 PHONE: 727-549-9999 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106		REVISIONS No. DATE BY
LICENSED PROFESSIONAL JENNIFER L. DAULAS P.L.A. FLORIDA LICENSE NUMBER 6667369	KHA PROJECT 148651002 DATE JANUARY 2023 SCALE AS SHOWN DESIGNED BY KHA DRAWN BY KHA CHECKED BY JLD	
TREE MITIGATION INDEX		
HIGHWAY 82 MULTI-FAMILY PREPARED FOR MILHAUS DEVELOPMENT, LLC CITY OF FORT MYERS, FLORIDA		
SHEET NUMBER TM-01		

Printed By: Brenda, Jessica, Sheet Set: KHA, Layout: TM-03, January 05, 2023, 05:35:14pm, K:\hmk_civil\48651002 - milhaus of 82 rezoning & site plan\mha\03\cadd\sheetset\TM-03 TREE MITIGATION PLAN.dwg
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GMP SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	DATE	BY

Kimley-Horn
 200 CENTRAL AVENUE, SUITE 600
 ST. PETERSBURG, FL 33701
 PHONE: 727-581-9899
 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
JENNIFER L. DAOUAS P.L.A.
 FLORIDA LICENSE NUMBER
 6667369

KHA PROJECT 148651002	JLD DATE
DATE JANUARY 2023	KHA CHECKED BY
SCALE AS SHOWN	KHA DRAWN BY
DESIGNED BY KHA	JLD

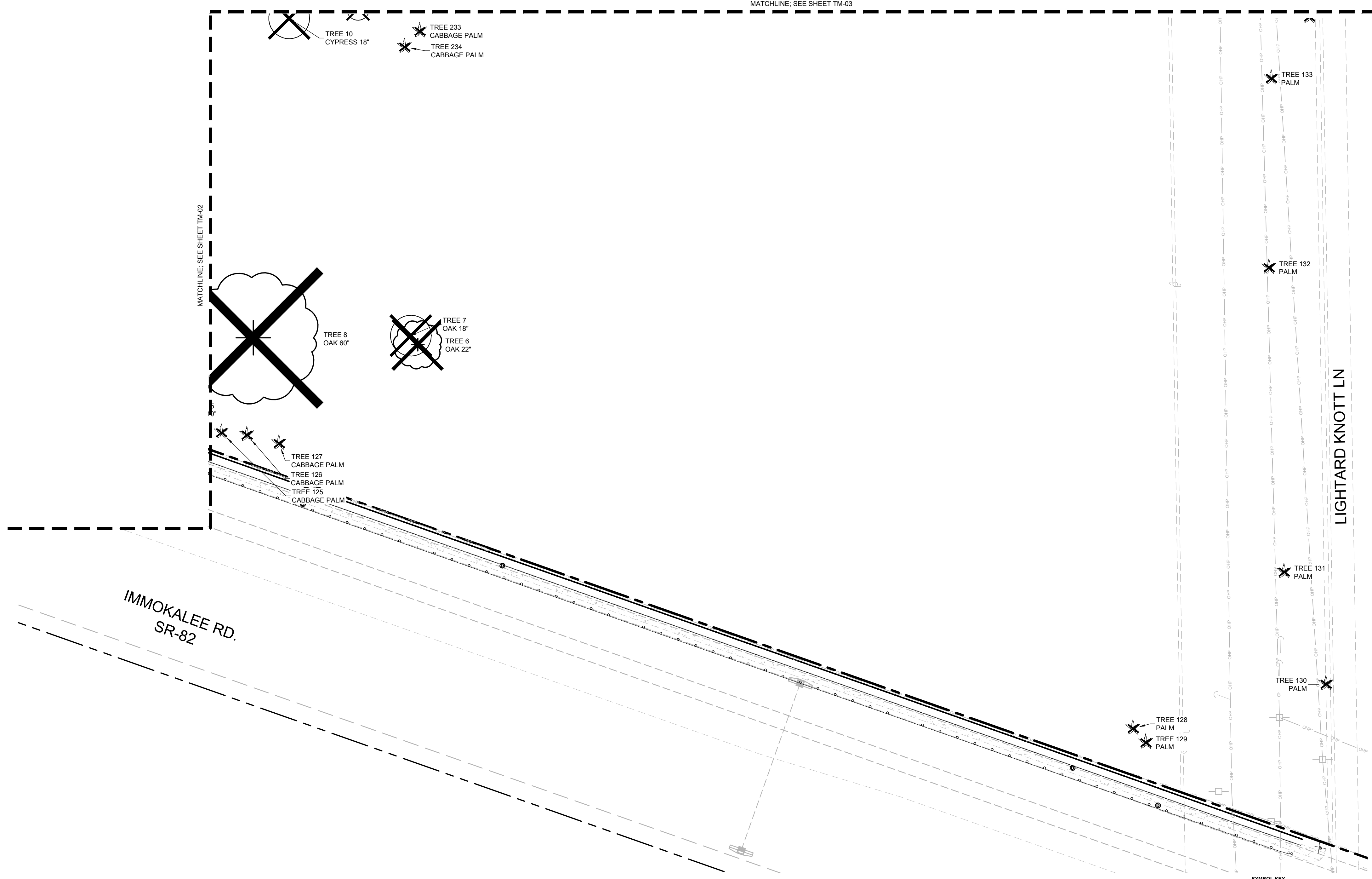
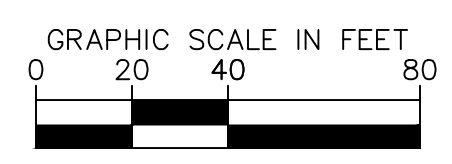
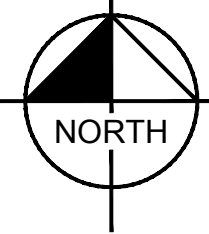
TREE MITIGATION PLAN

HIGHWAY 82
 MULTI-FAMILY
 PREPARED FOR
 MILHAUS DEVELOPMENT,
 LLC
 CITY OF FORT MYERS, FLORIDA

SHEET NUMBER
TM-03

Printed By: Brenda, Jessica Sheet Set: Highway 82 Highway 82 - Layout TM-04 January 05, 2023 05:36:18pm K:\mha_civil\48851002 - milhaus of 82 rezoning & site plan\mha\cadd\sheetsets\TM-04 TREE MITIGATION PLAN.dwg
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SYMBOL KEY

- PROTECTED TREE TO REMAIN
- PROTECTED TREE TO BE REMOVED
- PALM TO BE REMOVED
- HERITAGE TREE OF OR GREATER ORN. NATIVE SPECIES
- HERITAGE TREE TO BE REMOVED OF OR GREATER ORN. NATIVE SPECIES
- TREE PROTECTION FENCING

GMP SET - NOT FOR CONSTRUCTION

<p>Kimley»Horn 200 CENTRAL AVENUE, SUITE 600 ST. PETERSBURG, FL 33701 PHONE: 727-581-9999 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106</p>		<p>REVISIONS</p> <table border="1"> <tr><th>No.</th><th>REVISIONS</th><th>DATE</th><th>BY</th></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>	No.	REVISIONS	DATE	BY																																								
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<p>HIGHWAY 82 MULTI-FAMILY PREPARED FOR MILHAUS DEVELOPMENT, LLC CITY OF FORT MYERS, FLORIDA</p>																																														
<p>SHEET NUMBER TM-04</p>																																														

TREE MITIGATION SPECIFICATIONS

A. GENERAL

- CONTRACTOR SHALL ADHERE TO ALL TREE PROTECTION REQUIREMENTS LISTED IN THESE SPECIFICATIONS AND/OR THOSE LISTED IN THE CITY OR COUNTY ZONING CODE, TREE PROTECTION (LATEST EDITION), WHICHEVER IS MORE STRINGENT SHALL APPLY.
- ANY AREAS SUBJECT TO EROSION MUST BE ADEQUATELY STABILIZED WITH VEGETATION MATERIAL THAT WILL, WITHIN A REASONABLE TIME FRAME, DETER SOIL DISTURBANCE.
- NO SIGNS, BUILDING PERMITS, WIRES OR OTHER ATTACHMENTS OF ANY KIND SHALL BE ATTACHED TO ANY TREE OR PALM. GUY WIRES DESIGNED TO PROTECT TREES ARE EXCLUDED FROM THIS PROHIBITION.
- EXISTING TREE LOCATIONS AND SIZES ARE ESTIMATES AND ARE BASED ON A SURVEY PROVIDED BY THE OWNER SELECTED SURVEYOR.
- CONTRACTOR SHALL COORDINATE TREE REMOVAL WITH PERMITTING AGENCY AND PROJECT ARBORIST PRIOR TO CONSTRUCTION. NO PERSON MAY REMOVE OR CAUSE TO BE REMOVED ANY PROTECTED TREE OR PALM WITHOUT FIRST HAVING PROCURED A PERMIT AS PROVIDED BY THE APPROPRIATE PERMITTING AGENCY.
- FOR PROTECTED TREES OR PALMS BEING REMOVED, THE CONTRACTOR MUST GIVE THE PERMITTING AGENCY REASONABLE OPPORTUNITY TO RELOCATE TREES DESIGNATED FOR REMOVAL TO ANOTHER SITE AT THE PERMITTING AGENCY'S EXPENSE.
- CONTRACTOR IS RESPONSIBLE FOR POSSESSING ALL REQUIRED APPLICATOR LICENSES, BUSINESS REGISTRATIONS AND INSURANCE, AND MATERIAL DATA SAFETY SHEETS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR HAVING ALL SPILL CONTAINMENT MATERIALS AND REQUIRED PERSONAL PROTECTIVE EQUIPMENT FOR PESTICIDE APPLICATIONS AND ACCIDENTAL SPILLS ON SITE AT ALL TIMES. THE OWNER RESERVES THE RIGHT TO INSPECT EACH APPLICATOR AND HAVE THESE MATERIALS PRESENTED BEFORE AND DURING ANY PESTICIDE TREATMENT.
- WHERE TRAFFIC AREAS ARE PROPOSED WITHIN THE DRIP LINE OF PROTECTED TREES AND LESS THAN FOUR (4) INCHES OF GRADE CHANGE ARE PROPOSED, PERMEABLE SURFACES THAT ALLOW AIR AND WATER INTO THE SOIL SHOULD BE USED IN LIEU OF ASPHALT OR OTHER SUCH IMPERVIOUS SURFACES.
- TREE WELLS OF AN APPROVED DESIGN SHALL BE CONSTRUCTED AROUND ALL TREES TO BE PRESERVED WHEN MORE THAN FOUR INCHES OF FILL IS TO BE DEPOSITED WITHIN THE DRIP LINE AREA OF THOSE TREES. COORDINATE WITH PROJECT ARBORIST.
- THE SEQUENCE OF TREE MITIGATION AND PRESERVATION MEASURES IS IMPERATIVE TO THE HEALTH AND SURVIVABILITY OF THE SUBJECT TREES AND SHALL BE COORDINATED WITH THE OWNER SELECTED PROJECT ARBORIST. THE DESIRED SEQUENCE IS OUTLINED BELOW:
 - TREE PROTECTION FENCING.
 - ROOT PRUNING AND ROOT BARRIERS.
 - CLEARING.
 - TREE CANOPY PRUNING.
 - FERTILIZATION.
 - INSECTICIDE.
 - IRRIGATION.

B. TREE PROTECTION FENCING

- PRIOR TO THE ERECTION OF ANY TREE PROTECTION FENCING, ALL FOREIGN SURFACE MATERIAL, TRASH OR DEBRIS SHALL BE REMOVED FROM THE AREA TO BE ENCLOSED BY THE FENCING. AFTER ERECTION OF THE FENCING NO SUCH MATERIAL OR LITTER SHALL BE PERMITTED TO REMAIN WITHIN THE PROTECTED AREA.
- TREE PROTECTION FENCING SHALL BE PLACED AROUND ALL PROTECTED TREES TO CREATE A PROTECTIVE ROOT ZONE AND SHALL REMAIN IN PLACE UNTIL SITE CLEARING, LAND ALTERATION, AND CONSTRUCTION ACTIVITIES ARE COMPLETE.
- NATIVE GROUND COVER AND UNDERSTORY VEGETATION EXISTING WITHIN THE PROTECTED AREA SHALL REMAIN THROUGHOUT CONSTRUCTION. OTHER DESIGNATED VEGETATION AND INVASIVE PLANT SPECIES SHALL BE REMOVED ONLY BY MANUAL LABOR UTILIZING HAND TOOLS, OR BY OTHER METHODS APPROVED BY THE PROJECT ARBORIST.
- TREE PROTECTION FENCING TYPES AND LOCATIONS SHALL BE ERECTED AS SHOWN ON THE TREE MITIGATION PLANS AND DETAILS, OR AS REQUESTED BY LOCAL AGENCY.
- FINAL LOCATIONS SHALL BE COORDINATED WITH AND APPROVED BY THE PROJECT ARBORIST.
- NO MATERIALS, EQUIPMENT, SPOIL, WASTE OR WASHOUT WATER MAY BE DEPOSITED, STORED, OR PARKED WITHIN 20 FEET OF THE TREE PROTECTION ZONE.
- EROSION CONTROL DEVICES SUCH AS SILT FENCING, DEBRIS BASINS, AND WATER DIVERSION STRUCTURES SHALL BE INSTALLED TO PREVENT SILTATION AND/OR EROSION WITHIN THE TREE PROTECTION ZONE.
- CONSTRUCTION ACTIVITY SHALL NOT DESTROY OR IRREVERSIBLY HARM THE ROOT SYSTEM OF PROTECTED TREES. POST HOLES AND TRENCHES LOCATED CLOSE TO PROTECTED TREES SHALL BE ADJUSTED TO AVOID DAMAGE TO MAJOR ROOTS.
- DO NOT INSTALL CONDUIT, DRAIN OR IRRIGATION LINES, OR ANY UTILITY LINE WITHIN THE TREE PROTECTION ZONE WITHOUT THE APPROVAL OF THE PROJECT ARBORIST. IF LINES MUST TRAVERSE THE PROTECTION AREA, THEY SHALL BE TUNNELED OR BORED UNDER THE TREE.
- CONTRACTOR'S ACCESS TO FENCED TREE PROTECTION AREAS WILL BE PERMITTED ONLY WITH APPROVAL OF THE PROJECT ARBORIST.
- EXCAVATION OR GRADING REQUIRED WITHIN THE PROTECTED AREA SHALL BE LIMITED TO THREE (3) INCHES OF CUT OR FILL. COORDINATE WITH PROJECT ARBORIST.
- STRUCTURES AND UNDERGROUND FEATURES TO BE REMOVED WITHIN THE TREE PROTECTION ZONE SHALL BE COORDINATED WITH THE PROJECT ARBORIST.
- TREE PROTECTION FENCING AROUND TREES TO BE RELOCATED SHALL BE ERECTED UNTIL THE TREE IS READY TO BE RELOCATED AND NEW FENCING SHALL BE ERECTED AT THE TREES NEW LOCATION AND WILL REMAIN IN PLACE UNTIL ALL CONSTRUCTION ACTIVITIES ARE COMPLETE.
- IF ANY DAMAGE TO TREE PROTECTION FENCING SHOULD OCCUR BY ACCIDENT OR NEGLIGENCE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMMEDIATE REPAIRS.
- IF TEMPORARY HAUL OR ACCESS ROADS MUST PASS OVER THE PROTECTED AREA OF TREES TO BE PRESERVED, A ROAD BED OF SIX (6) INCHES OF MULCH OR GRAVEL SHALL BE CREATED TO PROTECT THE SOIL. THE ROAD BED MATERIAL SHALL BE REPLENISHED AS NECESSARY TO MAINTAIN A SIX (6) INCH ROAD BED AT ALL TIMES. CONTRACTOR SHALL REMOVE ALL SUCH MATERIALS FROM THE SITE AS SOON AS TEMPORARY ACCESS IS NO LONGER NECESSARY.
- CONTRACTOR SHALL COORDINATE WITH THE PROJECT ARBORIST PRIOR TO THE REMOVAL OF ALL TREE PROTECTION FENCING.

C. ROOT PRUNING/TRENCHING

- TRENCHING LOCATIONS SHALL BE APPROVED IN THE FIELD BY THE PROJECT ARBORIST.
- TRENCHING EQUIPMENT THAT WILL TURN AT HIGH RPM'S IS PREFERRED, AND SHALL BE APPROVED BY THE PROJECT ARBORIST. APPROVED EQUIPMENT WILL BE USED TO PERFORM ALL ROOT PRUNING OPERATIONS. A MINIMUM DEPTH OF THREE FEET IS REQUIRED.
- INSTALL ROOT BARRIER WHERE DESIGNATED. SEE TREE MITIGATION PLAN AND DETAIL SHEETS.
- THE TRENCH SHALL BE BACKFILLED WITH PREVIOUSLY EXCAVATED SOIL AND COMPACTED IMMEDIATELY.
- TREES TO BE RELOCATED SHALL BE ROOT PRUNED A MINIMUM OF TWELVE (12) WEEKS PRIOR TO TREE RELOCATION.
- WHEN THE TREE ROOT ZONE WILL BE DISTURBED, AFFECTED ROOTS MUST BE SEVERED BY CLEAN PRUNING CUTS AT THE POINT WHERE CONSTRUCTION IMPACTS THE ROOTS.

D. CLEARING

- ANY BRUSH CLEARING REQUIRED WITHIN THE TREE PROTECTION ZONE SHALL BE ACCOMPLISHED WITH HAND-OPERATED EQUIPMENT.
- CONTRACTOR SHALL CLEAR ALL TREE PROTECTION AREAS OF VINES, SHRUBS, GROUND COVERS, WEEDS, SAPLINGS, AND INVASIVES LISTED ON THE LATEST EDITION OF THE FLORIDA EXOTIC PEST PLANT COUNCIL'S LIST OF INVASIVE SPECIES.
- PROJECT ARBORIST MUST APPROVE METHODS OTHER THAN HAND CLEARING.
- A TWO (2) INCH LAYER OF MULCH SHALL BE APPLIED OVER THE SURFACE OF EXPOSED ROOTS OF PROTECTED TREES DURING THE

SITE CLEARING PHASE.

E. TREE CANOPY PRUNING
 TREE PRUNING SPECIFICATIONS SHALL BE DEFINED BASED ON SPECIFIC RECOMMENDATIONS OF THE PROJECT ARBORIST. INFORMATION PRESENTED BELOW SHOULD BE USED AS A GUIDELINE.

- CONTRACTOR SHALL VISIT THE SITE WITH THE PROJECT ARBORIST TO VERIFY THE EXTENT OF REQUIRED PRUNING.
- ALL PRUNING SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS OF A QUALIFIED INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) CERTIFIED ARBORIST OR AN AMERICAN SOCIETY OF CONSULTING ARBORISTS (ASCA) REGISTERED CONSULTING ARBORIST (RCA).
- AT LEAST ONE MEMBER OF THE PRUNING CREW SHALL BE AN ISA CERTIFIED ARBORIST.
- WHILE IN THE TREE, THE ARBORIST SHALL PERFORM AN AERIAL INSPECTION TO IDENTIFY DEFECTS THAT REQUIRE TREATMENT. ANY ADDITIONAL WORK NEEDED SHALL BE REPORTED TO THE OWNER.
- PRUNING CUTS SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE ANSI A300 PRUNING STANDARD (AMERICAN NATIONAL STANDARD FOR TREE CARE OPERATIONS) AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF ANSI Z133.1 SAFETY STANDARD. PRUNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ISA'S "BEST MANAGEMENT PRACTICES: TREE PRUNING".
- WHERE TEMPORARY CLEARANCE IS NEEDED FOR ACCESS, BRANCHES SHALL BE TIED BACK TO HOLD THEM OUT OF THE CLEARANCE ZONE.
- NO MORE THAN 20 PERCENT OF LIVE FOLIAGE SHALL BE REMOVED WITHIN ANY TREE.
- ALL TREES WITHIN THE PROJECT AREA SHALL BE PRUNED AS FOLLOWS:
 - LIVE BRANCH PRUNING SHOULD BE PERFORMED ONLY WHEN THE DANGER OF INSECT OR DISEASE INFESTATION IS NOT PRESENT.
 - REMOVE STUBS, CUTTING OUTSIDE THE WOUND WOOD TISSUE THAT HAS FORMED AROUND THE BRANCH.
 - CLEANING, FOR THE SELECTIVE REMOVAL OF DEAD, DISEASED, BROKEN, OR CROSSING BRANCHES DOWN TO ONE INCH IN DIAMETER OR AS DIRECTED BY THE PROJECT ARBORIST.
 - PRUNING CUTS LARGER THAN 4 INCHES IN DIAMETER, EXCEPT FOR DEAD WOOD, SHALL BE AVOIDED.
 - PRUNING CUTS THAT EXPOSE HEARTWOOD SHALL BE AVOIDED WHENEVER POSSIBLE.
 - ALL TREES WITH CROWNS THAT PROJECT INTO PARKING LOT/ROADWAY AREAS SHALL BE RAISED TO 14 FEET ABOVE FINISHED GRADE.
 - ALL TREES WITH CROWNS THAT PROJECT INTO SIDEWALK AREAS SHALL BE RAISED TO A HEIGHT OF 8 FEET ABOVE FINISHED GRADE.
- TREES, WHOSE ROOT SYSTEMS WILL BE IMPACTED SHALL RECEIVE THE FOLLOWING PRUNING TO COMPENSATE FOR ROOT LOSS:
 - THE LOCATION AND SIZE OF BRANCHES FOR REDUCTION SHALL BE DEFINED BY THE PROJECT ARBORIST.
 - REDUCTION, OR THE SELECTIVE PRUNING TO REDUCE TREE HEIGHT OR SPREAD.
 - REDUCE END WEIGHT ON HEAVY, HORIZONTAL BRANCHES BY SELECTIVELY REMOVING SMALL DIAMETER BRANCHES, NO GREATER THAN 2 TO 3 INCHES, NEAR THE ENDS OF SCAFFOLD BRANCHES.
 - RAISING SHALL CONSIST OF SELECTIVE PRUNING TO PROVIDE VERTICAL CLEARANCE.
- PROPOSED/REPLACEMENT TREES
 - PRUNING SHALL BE LIMITED TO CLEANING.
- BRUSH SHALL BE CHIPPED AND SPREAD (ONLY WHEN DISEASE OR INSECT INFESTATION IS NOT PRESENT) UNDERNEATH TREES WITHIN THE TREE PROTECTION ZONE TO A MAXIMUM DEPTH OF THREE (3) INCHES, LEAVING THE TRUNK CLEAR OF MULCH.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL EXCESS DEBRIS ON A DAILY BASIS.

F. FERTILIZATION

- CONTRACTOR SHALL COORDINATE FERTILIZATION PLAN, FOLLOWING BEST MANAGEMENT PRACTICES WITH THE PROJECT ARBORIST PRIOR TO COMMENCEMENT OF WORK.
- EVERY EFFORT SHALL BE MADE TO UTILIZE CHEMICALS OF AN ORGANIC OR BIODEGRADABLE NATURE IN ORDER TO OFFER THE LEAST IMPACT TO THE NATURAL ENVIRONMENT. CONTRACTOR IS RESPONSIBLE FOR MIXING, APPLYING, AND DISPOSAL OF ALL CHEMICALS IN ACCORDANCE WITH STRICT ADHERENCE TO MANUFACTURER'S SPECIFICATIONS. COORDINATE WITH PROJECT ARBORIST FOR FURTHER INSTRUCTION.
- ONLY TREES AFFECTED BY CONSTRUCTION OR AS SHOWN ON THE TREE MITIGATION PLAN AND TREE INVENTORY SCHEDULE SHALL BE TREATED.
- TREES SPECIFIED TO RECEIVE FERTILIZER SHALL BE TREATED AS FOLLOWS:
 - MIX FERTILIZER ACCORDING TO MANUFACTURER'S SPECIFICATIONS INTO A TANK WITH AGITATION CAPABILITY.
 - MIX WETTING AGENT ACCORDING TO MANUFACTURER'S SPECIFICATIONS INTO SAME TANK WITH FERTILIZER. AGITATE MIX.
 - INJECT THE MIXTURE WITH A HYDRAULIC INJECTION SYSTEM INTO THE UPPER 6-12 INCHES OF SOIL WITH A SOIL PROBE. INJECT AT THE RATE OF ONE THIRD (1/3) GALLON AT EACH INJECTION SITE.
 - THE CRITICAL ROOT ZONE AREA PLUS 2' BEYOND THE CRITICAL ROOT ZONE SHALL BE INJECTED, BUT NOT BEYOND ROOT PRUNING LOCATIONS.
 - FERTILIZER SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF ANY AERATION SYSTEMS.
 - EMPTY PRODUCT CONTAINERS SHALL BE STOCKPILED FOR INSPECTION BY THE PROJECT ARBORIST PRIOR TO DISPOSAL.
- TRANSPLANT INOCULANT & BIOSTIMULANT.
 - CONTRACTOR SHALL PROVIDE MYCORRHIZAL TRANSPLANT INOCULANT ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND AS RECOMMENDED BY THE PROJECT ARBORIST. MIX INOCULANT IN 10" WIDE TOPSOIL RING AROUND THE ROOT BALL.
 - CONTRACTOR SHALL PROVIDE INJECTABLE MYCORRHIZAL INOCULANT ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND AS RECOMMENDED BY THE PROJECT ARBORIST. AGITATE FOR 10 MINUTES.
 - INJECT THE MIXTURE WITH A HYDRAULIC INJECTION SYSTEM INTO THE UPPER 6-12 INCHES OF SOIL WITH A SOIL PROBE. INJECT AT THE RATE OF ONE THIRD (1/3) GALLON AT EACH INJECTION SITE.
 - EMPTY PRODUCT CONTAINERS SHALL BE STOCKPILED FOR INSPECTION BY PROJECT ARBORIST PRIOR TO DISPOSAL.

G. INSECTICIDE

- NOTIFY PROJECT ARBORIST IF ANY INFESTATION IS NOTICED.
- FOLLOW PROJECT ARBORIST'S RECOMMENDED PROCEDURES.
- FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS CONCERNING APPLICATION. READ ALL WARNING LABELS.
- ANY PETS, AS WELL AS, THE PETS FOOD AND WATER BOWLS SHOULD BE REMOVED FROM THE AREA AND ANY SWIMMING POOLS SHOULD BE COVERED. COORDINATE WITH PROJECT ARBORIST FOR FURTHER INSTRUCTION.
- ENSURE COMPLETE COVERAGE AND REAPPLY 2-3 MONTHS AFTER INITIAL APPLICATION UTILIZING SAME PROCEDURE.

H. IRRIGATION

- EVERY EFFORT SHALL BE MADE TO WATER THE PRESERVED TREES AND TRANSPLANTS. CONTRACTOR SHALL IRRIGATE BY HAND OR BY TEMPORARY IRRIGATION.
- IRRIGATE AS REQUIRED BY PROJECT ARBORIST UNTIL PERMANENT IRRIGATION IS INSTALLED AND OPERATING.

- UNDERGROUND IRRIGATION SHALL NOT BE INSTALLED WITHIN THE DRIP LINES OF EXISTING TREES UNLESS ROOT PROTECTION MEASURES ARE PROVIDED AND APPROVED BY PROJECT ARBORIST.

I. TREE REMOVALS

- PRIOR TO AND DURING LAND CLEARING, INCLUDING GRUBBING, ALL TREES TO BE REMOVED SHALL BE CLEARLY MARKED BY PROJECT ARBORIST WITH RED SURVEY RIBBONS AT 36 INCHES MINIMUM ABOVE GRADE.
- CONTRACTOR SHALL REMOVE ALL TREES AS SHOWN ON THE TREE MITIGATION PLANS AFTER THE TREE PROTECTION FENCING IS INSTALLED.
- ALL TREES SHOWN TO BE REMOVED SHALL BE FELLED WITH A CHAIN SAW AND STUMP GROUND 6" BELOW SURFACE. ANY TREE SHOWN TO BE REMOVED THAT IS IN AN AREA WHERE COMPACTION IS CRITICAL SHALL BE FELLED WITH A CHAIN SAW AND STUMP REMOVED BY CONTRACTOR.
- ALL WOOD AND STUMPS FROM REMOVALS SHALL BE HAULED FROM THE SITE THE SAME DAY, EXCEPT FOR TOPS. ALL TOPS ARE TO BE MULCHED AND STOCKPILED OR HAULED DIRECTLY TO MULCHED AREAS FOR RELOCATED TREES IF SCHEDULING PERMITS. TOPS SHALL BE CHIPPED AND PLACED IN THE TREE PROTECTION ZONE TO A DEPTH OF THREE (3) INCHES. ALL EXCESS WOOD CHIPS SHOULD BE HAULED OFF SITE AFTER TRANSPLANTING IS COMPLETE.
- ALL BURN PITS IF APPLICABLE MUST BE APPROVED BY THE PROJECT ARBORIST AND OWNER.
- TREES TO BE REMOVED THAT HAVE BRANCHES EXTENDING INTO THE CANOPY OF TREES TO REMAIN MUST BE REMOVED BY A QUALIFIED ISA CERTIFIED ARBORIST AND NOT BY DEMOLITION OR CONSTRUCTION CONTRACTORS. THE QUALIFIED ARBORIST SHALL REMOVE THE TREE IN A MANNER THAT CAUSES NO DAMAGE TO THE TREES AND UNDERSTORY VEGETATION TO REMAIN.
- TREES TO BE REMOVED LOCATED WITHIN THE TREE PROTECTION ZONE SHALL BE REMOVED BY A QUALIFIED ISA CERTIFIED ARBORIST. THE TREES SHALL BE CUT NEAR GROUND LEVEL AND THE STUMP GROUND OUT.

J. MACHINE DUG TRANSPLANTING

- DIG TRANSPLANT-RECEIVING HOLE.
- SET SPADE DUG ROOT BALL INTO RECEIVING HOLE 4"-6" ABOVE EXISTING GRADE.
- WASH SAND OR TOPSOIL INTO AIR POCKETS BETWEEN ROOT BALL AND RECEIVING HOLE.
- INSTALL TOPSOIL RING, 4" HIGH, 10" WIDE, AROUND PERIMETER OF ROOT BALL. MIX MYCORRHIZAL TRANSPLANT INOCULANT INTO TOPSOIL RING PER MANUFACTURER'S SPECIFICATIONS.
- INSTALL THREE INCHES OF MULCH FROM PERIMETER OF ROOT BALL TO WITHIN 6" OF TREE TRUNK.
- COVER TOPSOIL RING WITH 1" OF MULCH AND EXTEND MULCH 4"-6" DEEP, AWAY FROM PERIMETER OF ROOT BALL.
- WATER TRANSPLANT.

K. HOLDING AREA FOR TRANSPLANTS

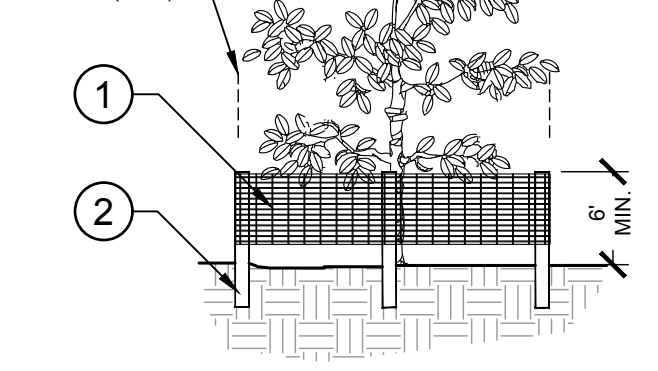
- HOLDING AREAS SHOULD NOT BE NECESSARY. CONSTRUCTION PHASING SHOULD BE IMPLEMENTED SO THAT TREES ARE IMMEDIATELY RELOCATED TO THEIR PERMANENT LOCATION. COORDINATE WITH PROJECT ARBORIST AS NEEDED.
- SHOULD A HOLDING AREA BE NECESSARY, TREE PROTECTION FENCING SHALL BE INSTALLED AT THE PERIMETER OF THE ENTIRE AREA.
- CONTRACTOR SHALL COORDINATE LOCATION AND SPECIFICATIONS OF THE HOLDING AREA WITH PROJECT ARBORIST.
- CONTRACTOR SHALL SUPPLY TEMPORARY IRRIGATION TO THE HOLDING AREA CONSISTING OF ABOVE GROUND PVC OR POLYETHYLENE PIPE, SPRAY OR ROTOR HEADS (WITH HEAD TO HEAD COVERAGE) AND A CONTROLLER. COORDINATE WITH PROJECT ARBORIST FOR CONTROLLER SETTINGS AND ALTERNATIVE WATERING METHODS.

L. TOPSOIL

- CONTRACTOR SHALL COORDINATE ALL EARTHWORK OPERATIONS WITHIN TREE PROTECTION AREAS WITH THE PROJECT ARBORIST PRIOR TO BEGINNING WORK.
- ALL TOPSOIL SHALL BE NATURAL, FRIABLE, FERTILE, FINE LOAMY SOIL POSSESSING CHARACTERISTICS OF REPRESENTATIVE TOPSOIL IN THE VICINITY THAT PRODUCES HEAVY GROWTH.
- TOPSOIL, PH RANGE OF 5.5 TO 7.0, 3-5 PERCENT ORGANIC MATERIAL MINIMUM, FREE FROM ROOTS, OBJECTIONABLE WEEDS, LITTER, SOBS, STIFF CLAY, STONES LARGER THAN ONE (1) INCH IN DIAMETER, STUMPS, RUBBIS, TRASH, TOXIC SUBSTANCES, OR ANY OTHER MATERIAL WHICH MAY BE HARMFUL TO PLANT GROWTH.
- VERIFY AMOUNT STOCKPILED IF ANY, AND SUPPLY ADDITIONAL AS NEEDED FROM NATURALLY WELL-DRAINED SITES WHERE TOPSOIL OCCURS AT LEAST FOUR (4) INCHES DEEP. DO NOT OBTAIN TOPSOIL FROM Bogs OR MARSHES.
- PROJECT ARBORIST SHALL APPROVE ALL TOPSOIL PRIOR TO PLACEMENT.

M. REPAIR OF DAMAGED TREES

- IF DAMAGE TO ANY TREE SHOULD OCCUR BY ACCIDENT OR NEGLIGENCE DURING THE CONSTRUCTION PERIOD, THE PROJECT ARBORIST SHALL APPRAISE THE DAMAGE AND MAKE RECOMMENDATIONS TO THE OWNER FOR REPAIR BY THE CONTRACTOR.
- IF ANY TREE DESIGNATED TO BE SAVED IS REMOVED FROM THE SITE WITHOUT PERMISSION OF THE OWNER'S REPRESENTATIVE, THE PROJECT ARBORIST SHALL APPRAISE THE TREE AND MAKE RECOMMENDATIONS TO THE OWNER FOR REPLACEMENT BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF THE TREE AND ANY FEES THAT MAY BE ASSESSED TO THE OWNER BY THE GOVERNING AGENCY.

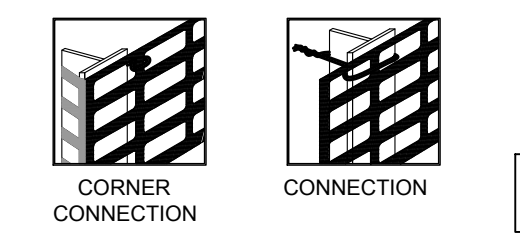


- 6" PERIMETER PLUS" CONSTRUCTION FENCE BY CONVED PLASTICS OR OWNER'S REPRESENTATIVE APPROVED EQUAL. SUBMIT PRODUCT INFORMATION FOR APPROVAL PRIOR TO INSTALLATION.
- 8" TALL METAL "T" POSTS OR 2" x 2" x 8" PRESSURE TREATED WOOD POSTS WITH 24" BURIAL BELOW GRADE.

INSTALLATION NOTES:

- POST SELECTION SHOULD BE BASED ON EXPECTED STRENGTH NEEDS AND THE LENGTH OF TIME FENCE WILL BE IN PLACE. FLEXIBLE FIBERGLASS ROD POSTS ARE RECOMMENDED FOR PARKS, ATHLETIC EVENTS AND CROWD CONTROL INSTALLATIONS. METAL "T" POSTS OR TREATED WOOD POSTS ARE TYPICALLY USED FOR CONSTRUCTION AND OTHER APPLICATIONS.
- POSTS SHOULD BE DRIVEN INTO THE GROUND TO A DEPTH OF 1/3 OF THE HEIGHT OF THE POST. FOR EXAMPLE, A 6' POST SHOULD BE SET AT LEAST 2' INTO THE GROUND.
- SPACE POSTS EVERY 6' (MIN.) TO 8' (MAX.).
- SECURE FENCING TO POST WITH NYLON CABLE TIES (AVAILABLE FROM CONVED PLASTICS). WOOD STRIPS MAY BE ALSO BE USED TO PROVIDE ADDITIONAL SUPPORT AND PROTECTION BETWEEN TIES AND POSTS.

NOTE: IF WIRE TIES ARE USED, AVOID DIRECT CONTACT WITH FENCE. WIRE MAY DAMAGE FENCE OVER TIME.



1 TREE PROTECTION FENCING
 TM-01 ELEVATION / PLAN

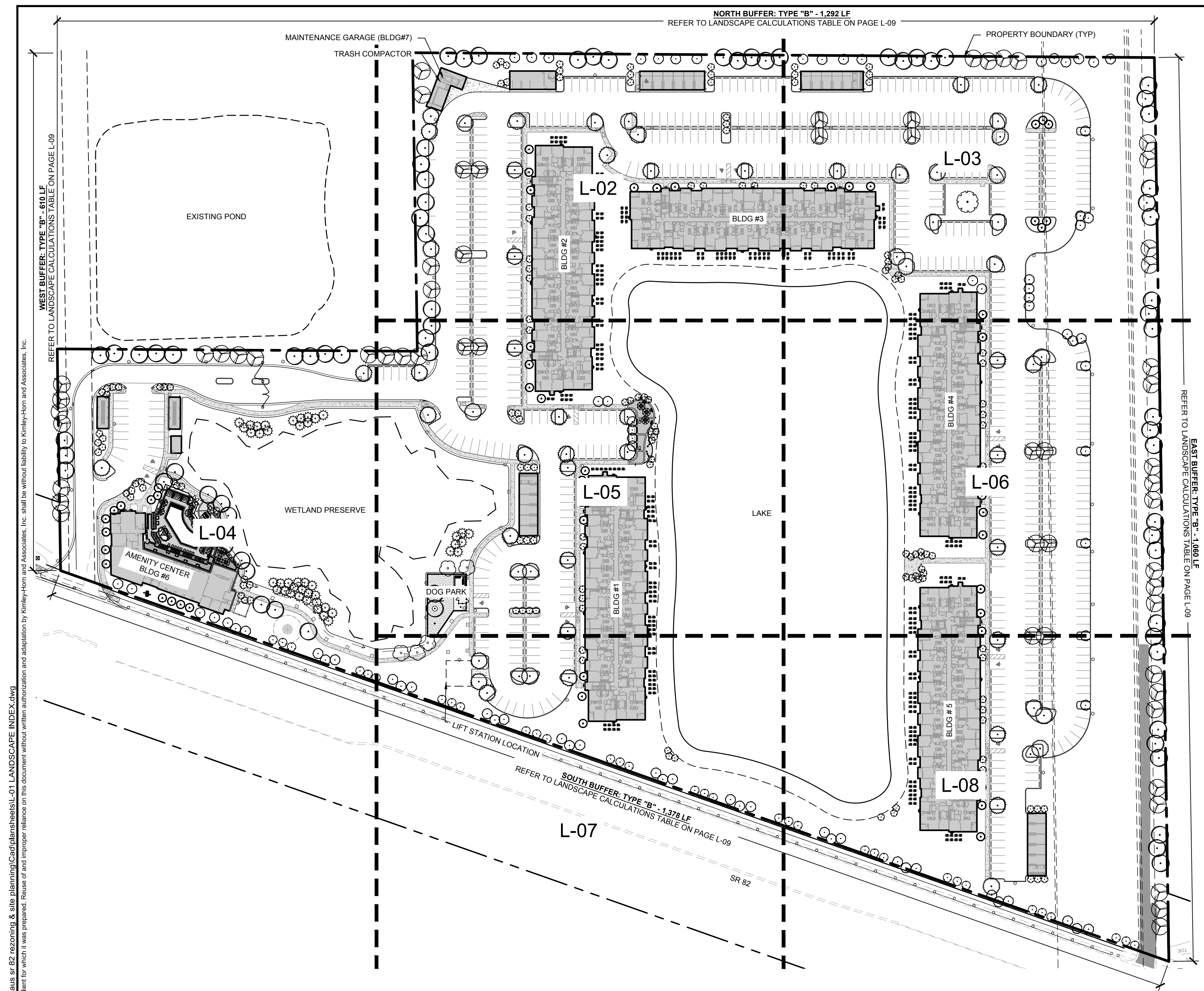
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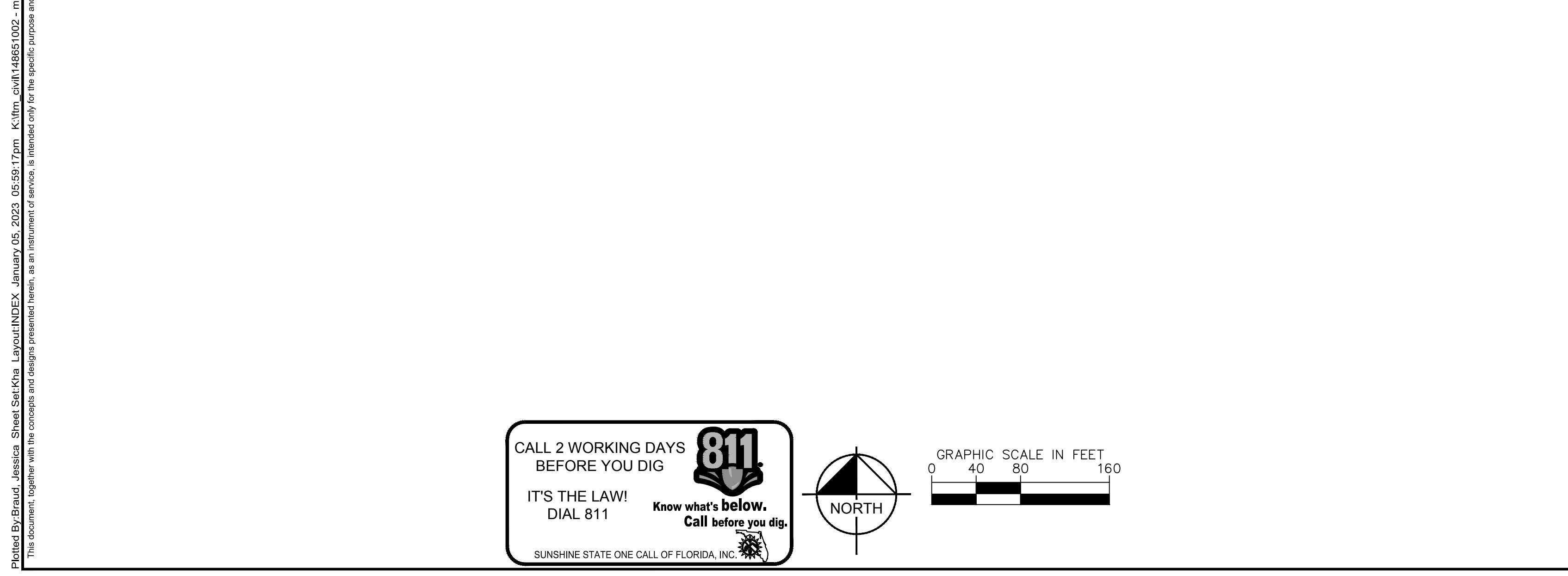
200 CENTRAL AVENUE, SUITE 600 ST. PETERSBURG, FL 33701 PHONE: 727-581-9999 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106	LICENSED PROFESSIONAL JENNIFER L. DAULIAS P.L.A. FLORIDA LICENSE NUMBER 6667369	KHA PROJECT 149651002 DATE JANUARY 2023 SCALE AS SHOWN DESIGNED BY KHA DRAWN BY KHA CHECKED BY JLD	TREE MITIGATION NOTES & DETAIL HIGHWAY 82 MULTI-FAMILY PREPARED FOR MILHAUS DEVELOPMENT, LLC CITY OF FORT MYERS FLORIDA	SHEET NUMBER TM-05
				REVISIONS NO.



LANDSCAPE CALCULATIONS PER CITY OF FORT MYERS LAND DEVELOPMENT CODE		
	REQUIRED	PROVIDED
VEHICULAR USE AREA LANDSCAPE 10% OF TOTAL VUA (OVER 4,000 TOTAL SF) SHALL BE LANDSCAPED 1 TREE AND 10 SHRUBS PER 200 SF OF PARKING ISLANDS, PENINSULAS AND MEDIANS SECTION 138.41.A	5.9 ACRES (256,959 SF) X 10% = 25,696 SF LANDSCAPE 1 TREE (18,788 SF / 200 SF) = 94 TREES 10 SHRUBS (18,788 SF / 200 SF) = 940 SHRUBS	26,638 SF LANDSCAPE 94 TOTAL TREES 1,852 SHRUBS, 3,640 GROUND COVERS
BUILDING PERIMETER LANDSCAPE 10% MINIMUM OF THE PROPOSED BUILDING GROSS FLOOR AREA SHALL BE LANDSCAPE, 5' MINIMUM WIDTH 10% MAXIMUM TURF AREA SECTION 138.41.C	2.37 ACRES (103,170.6 SF) X 10% = 10,317.06 SF LANDSCAPED 10,317.06 SF LANDSCAPE X 10% = 1,031.71 SF MAX TURF AREA	14,339 SF LANDSCAPE 0 SF OF TURF AREA
GENERAL TREE REQUIREMENTS 1 GENERAL TREE PER 3,000 SF OF DEVELOPMENT AREA (EXCLUDING BUFFER AND PARKING TREES) SECTION 138.41.E	21.38 ACRES (931,281 SF) WETLAND (64,878 SF) = 866,350 SF 866,350 SF / 3,000 SF = 289 TREES (EXCLUDING BUFFER AND PARKING TREES)	289 TREES
OPEN SPACE / INDIGENOUS AREA REFER TO PAGE L-10	REFER TO PAGE L-10	REFER TO PAGE L-10
LANDSCAPE BUFFERING WEST BUFFER: TYPE "B" - 610 LF 15' WIDTH, 4 SHADE TREES AND 66 SHRUBS PER 100 LF NORTH BUFFER: TYPE "B" - 1,292 LF 15' WIDTH, 4 SHADE TREES AND 66 SHRUBS PER 100 LF EAST BUFFER: TYPE "B" - 1,060 LF 15' WIDTH, 4 SHADE TREES AND 66 SHRUBS PER 100 LF SOUTH BUFFER: RIGHT-OF-WAY BUFFER - TYPE "B" - 1,378 LF 15' WIDTH, 4 SHADE TREES AND 66 SHRUBS PER 100 LF SECTION 138.4	WEST BUFFER: TYPE "B" - 610 LF 610 / 100 = 6.1 6.1 X 4 = 25 SHADE TREES 6.1 X 66 = 403 SHRUBS NORTH BUFFER: TYPE "B" - 1,292 LF 1,292 / 100 = 12.92 12.92 X 4 = 52 SHADE TREES 12.92 X 66 = 853 SHRUBS EAST BUFFER: TYPE "B" - 1,060 LF 1,060 / 100 = 10.60 10.60 X 4 = 43 SHADE TREES 10.60 X 66 = 700 SHRUBS SOUTH BUFFER: RIGHT-OF-WAY BUFFER - TYPE "B" - 1,378 LF 1,378 / 100 = 13.78 13.78 X 4 = 55 SHADE TREES 13.78 X 66 = 910 SHRUBS	WEST BUFFER: TYPE "B" 15' WIDTH 25 SHADE TREES 737 SHRUBS NORTH BUFFER: TYPE "B" 15' WIDTH 52 SHADE TREES 994 SHRUBS EAST BUFFER: TYPE "B" 15' WIDTH 43 SHADE TREES 767 SHRUBS SOUTH BUFFER: RIGHT-OF-WAY BUFFER - TYPE "B" 15' WIDTH 56 SHADE TREES 1,510 SHRUBS
PLANT MATERIAL STANDARDS 75% OF TREES* SHALL BE NATIVE 50% OF SHRUBS** SHALL BE NATIVE *TREES SHALL BE 2" CALIPER MINIMUM, 4" SPREAD MINIMUM AND 10' HT MINIMUM, PALMS SHALL BE 10' CT. MINIMUM **SHRUBS SHALL BE 24" HT MINIMUM, 3 GALLON MINIMUM, 18" MINIMUM SPACING SECTION 138.4	405 TREES X 75% = 303 NATIVE TREES 7,300 SHRUBS X 50% = 3,650 NATIVE SHRUBS	491 NATIVE TREES 5,007 NATIVE SHRUBS

LITTORAL ZONE CALCULATIONS		
	REQUIRED	PROVIDED
PER CITY OF FORT MYERS LDC 1 PLANT PER LF OF LAKE SHORELINE, AS MEASURED AT THE CONTROL ELEVATION WATER LEVEL. PLANTS SHALL BE INSTALLED IN CLUSTERS AROUND THE LAKE PERIMETER. CLUSTERS MUST CONTAIN A MINIMUM OF 25 PLANTS WITHIN A 100 SF AREA. A MINIMUM OF 4 SPECIES OF PLANTS MUST BE PLANTED PER PROJECT LAKE. THE MINIMUM SIZE SHALL BE A 2" CONTAINER OR LINER. SECTION 138.41.D	1695 LF OF SHORELINE = 1695 PLANTS	1,775 PLANTS

- NOTES:**
- SEE SHEETS L-11 AND L-12 FOR LANDSCAPE SPECIFICATIONS AND DETAILS.
 - CONTRACTOR SHALL SOD TO LIMITS OF DISTURBANCE, INCLUDING ANY DISTURBANCE WITHIN RIGHT-OF-WAY. ALL SOD TO BE BAHIA, CONFIRM FINAL SPECIES SELECTION WITH OWNER PRIOR TO INSTALLATION.
 - ALL PLANT SPECIFICATIONS IN THE PLANT SCHEDULE SHALL BE CONSIDERED THE MINIMUM ALLOWABLE SPECIFICATIONS. CONTRACTOR SHALL PROCURE PLANT MATERIALS AND UPSIZE AS NECESSARY TO MEET THE MOST STRINGENT SPECIFICATION.
 - LANDSCAPE ARCHITECT RESERVES THE RIGHT TO FIELD ADJUST ALL PLANT MATERIAL.
 - ALL QUANTITIES PROVIDED FOR CONVENIENCE ONLY. CONTRACTOR SHALL CONFIRM ALL QUANTITIES PER PLAN PRIOR TO BIDDING AND CONSTRUCTION.
 - SEE SHEET L-09 FOR FULL PLANT SCHEDULE.
 - ALL PROPOSED TREES WITHIN FPL EASEMENT TO BE MAINTAINED AT 14' HEIGHT MAXIMUM.



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ST. PETERSBURG, FL 33701
PHONE: 727-581-9999
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
JENNIFER L. DAQUILA P.L.A.
FLORIDA LICENSE NUMBER
6667369

KHA PROJECT 1446651002	DATE JANUARY 2023	SCALE AS SHOWN	DESIGNED BY KHA	DRAWN BY KHA	CHECKED BY JLD	DATE
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**CODE MINIMUM
LANDSCAPE PLAN
INDEX**

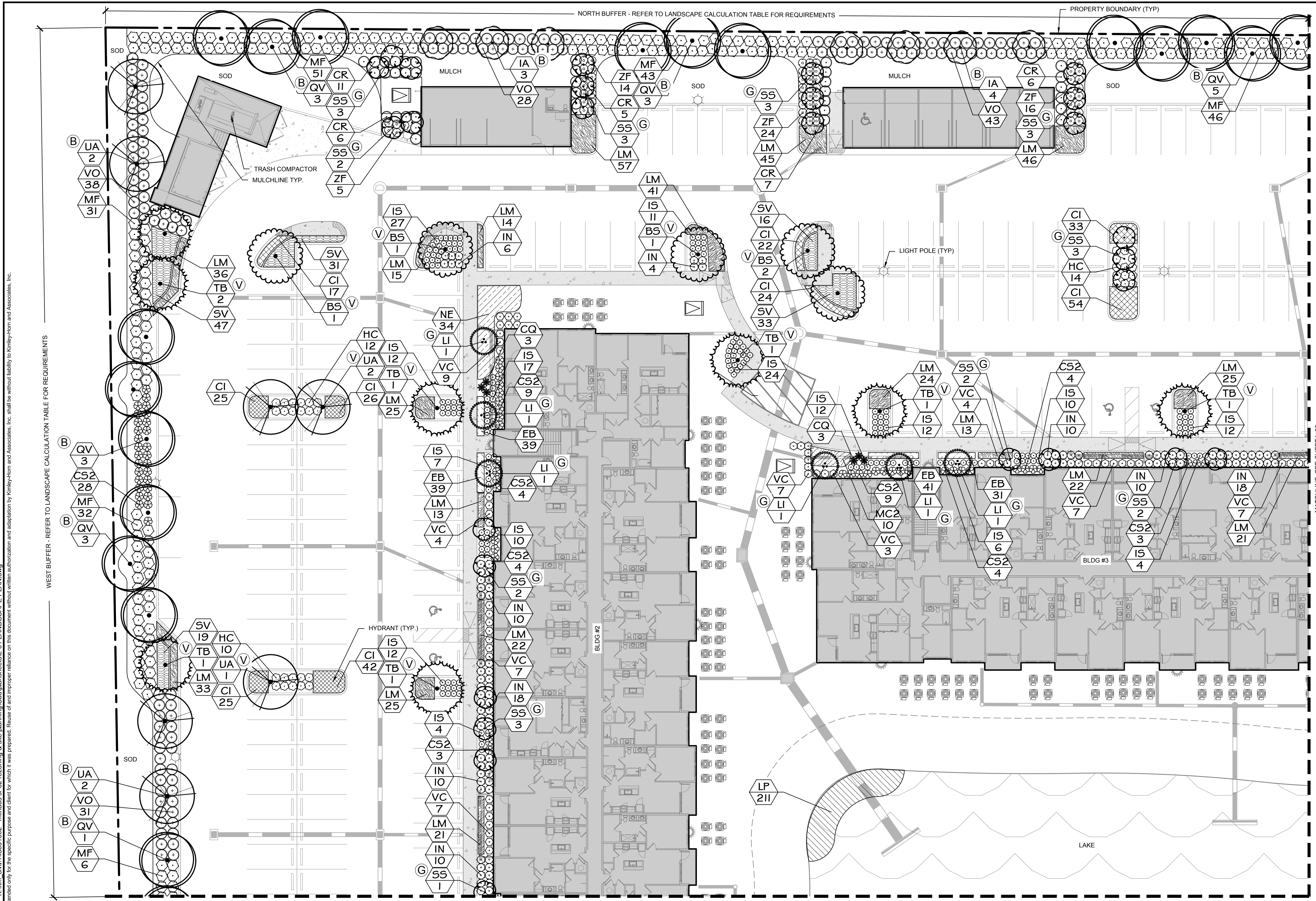
HIGHWAY 82
MULTI-FAMILY
PREPARED FOR
MILHAUS DEVELOPMENT,
LLC
CITY OF FORT MYERS
FLORIDA

SHEET NUMBER
L-01

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TREES	
CODE	COMMON NAME
TB	BLACK OLIVE TREE
BS	GUMBO LIMBO
IA	EAGLESTON HOLLY
LI	CRAPE MYRTLE MULTI-TRUNK
ML	DWARF SOUTHERN MAGNOLIA
PE	SLASH PINE
QV	SOUTHERN LIVE OAK
QV2	SOUTHERN LIVE OAK
RR	ROYAL PALM
RR3	ROYAL PALM TRIPLE
SS	CABBAGE PALMETTO SLICKED 14FT
TD	BALD CYPRESS
UA	WINGED ELM

SHRUBS	
CODE	COMMON NAME
CR	RED TIP COCOPLUM
CS2	SILVER BUTTONWOOD FULL, LOW BRANCHED
CQ	QUEEN EMMA CRINUM LILY
HC	DWARF FIREBUSH
IS	SCHILLINGS YAUPON HOLLY
IA2	MAUI RED IXORA
IN	IXORA 'NORA GRANT
MF	SIMPSON'S STOPPER
MC	WAX MYRTLE
PA2	BLUE PLUMBAGO
PM	MAKI SHRUBBY YEW PODOCARPUS
VC	CHINDO SWEET VIBURNUM
VO	SWEET VIBURNUM
ZF	COONTIE

SHRUB AREAS	
CODE	COMMON NAME
MC2	PINK MUHLY GRASS
NE	BOSTON FERN
PA4	PURPLE FOUNTAIN GRASS
SV	DWARF VARIEGATED SCHEFFLERA
TF	DWARF FAKAHATCHEE GRASS

GROUND COVERS	
CODE	COMMON NAME
CM	DWARF NATAL PLUM
CI	HORIZONTAL COCOPLUM
EB	BLUE DAZE MORNING GLORY
LM	VARIEGATED LILYTURF

NO.	REVISIONS	DATE	BY

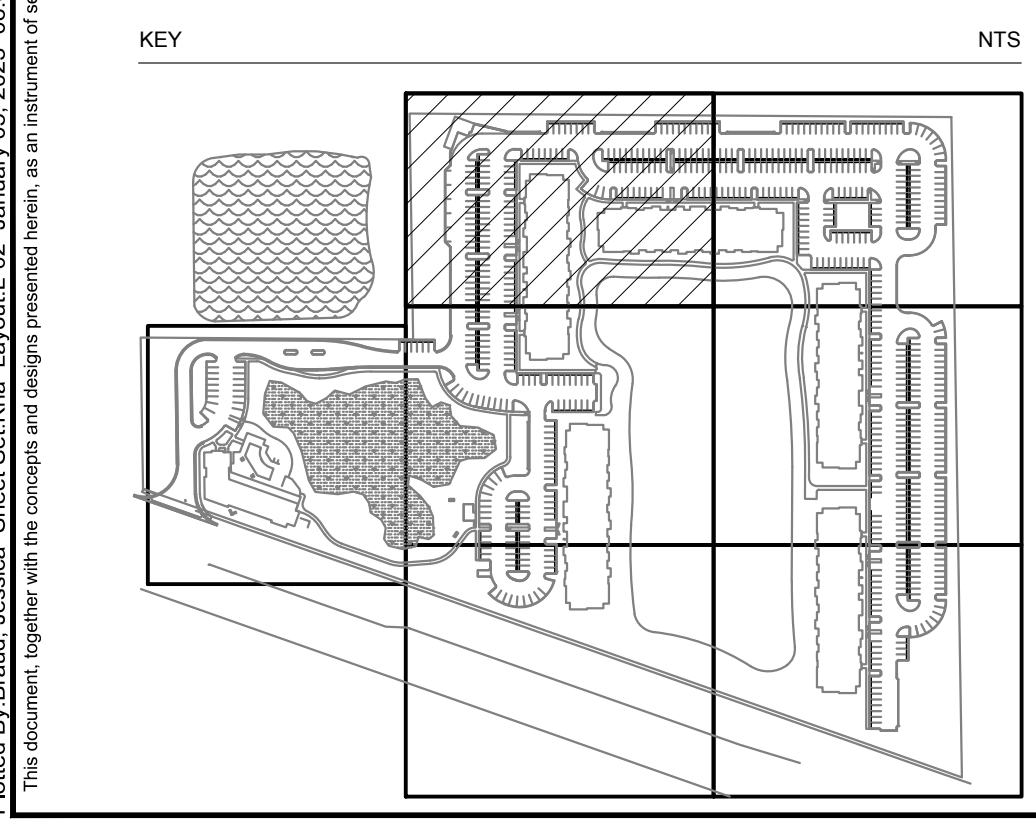
Kimley-Horn
 LICENSED PROFESSIONAL
 JENNIFER L. DAOUAS P.L.A.
 200 CENTRAL AVENUE, SUITE 600
 ST. PETERSBURG, FL 33701
 PHONE: 727-567-9999
 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106
 FLORIDA LICENSE NUMBER 6667369

KHA PROJECT 149651002	LICENSED PROFESSIONAL JENNIFER L. DAOUAS P.L.A.
DATE JANUARY 2023	FLORIDA LICENSE NUMBER 6667369
SCALE AS SHOWN	DRAWN BY KHA
CHECKED BY KHA	JLD

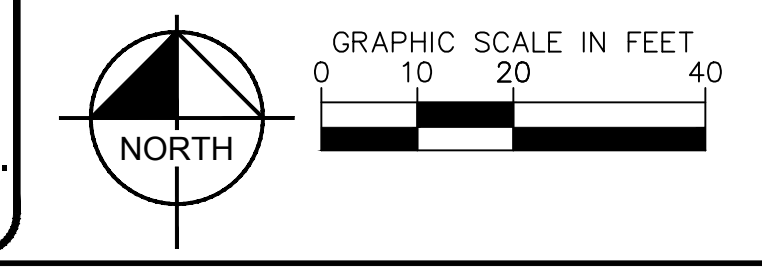
CODE MINIMUM LANDSCAPE PLAN

HIGHWAY 82 MULTI-FAMILY
 PREPARED FOR
MILHAUS DEVELOPMENT, LLC
 CITY OF FORT MYERS, FLORIDA

SHEET NUMBER
L-02



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SYMBOL KEY

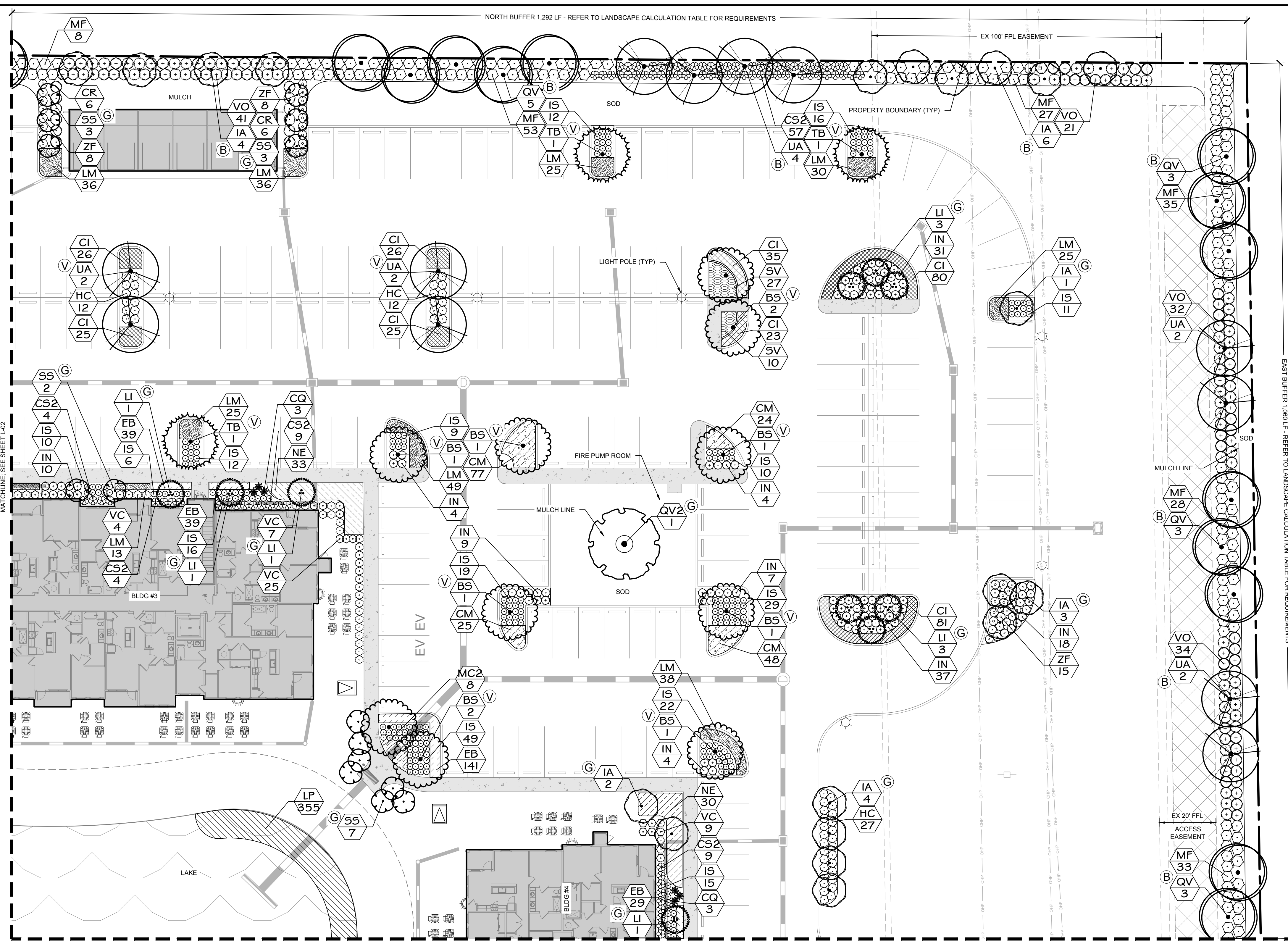
(V) TREE COUNTED TOWARDS VEHICULAR AREA REQUIREMENT
 (B) TREE COUNTED TOWARDS BUFFER REQUIREMENT
 (G) TREE COUNTED TOWARDS GENERAL REQUIREMENT

LITTORAL PLANTING

CODE	COMMON NAME
LP	REFER TO DETAILS 1 & 2 AND PLANT SCHEDULE ON SHEET L-13.

GMP SET - NOT FOR CONSTRUCTION

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LM	VARIEGATED LILYTURF
GMP SET - NOT FOR CONSTRUCTION	

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WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

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JENNIFER L. DAQUILA P.L.A.
FLORIDA LICENSE NUMBER: 6667369

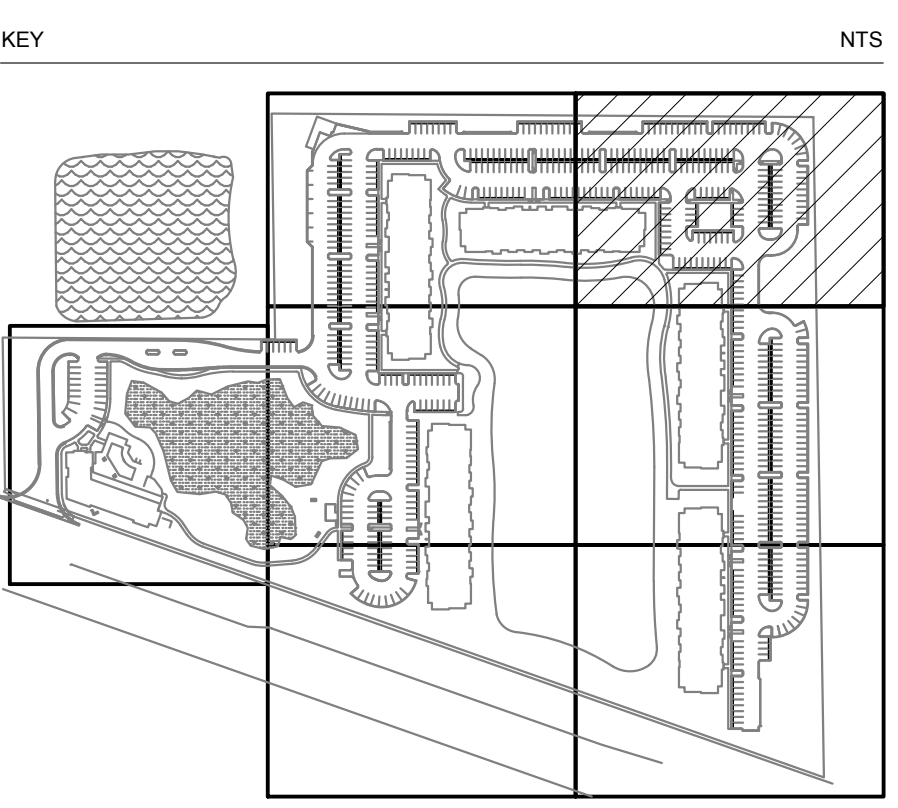
KHA PROJECT: 149651002
DATE: JANUARY 2023
SCALE: AS SHOWN
DRAWN BY: KHA
CHECKED BY: KHA

FLORIDA
J.L.D. DATE

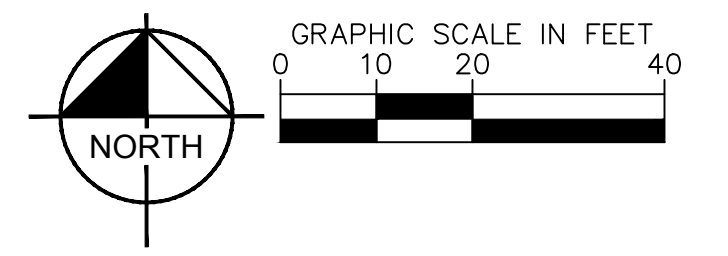
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PREPARED FOR
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CITY OF FORT MYERS, FLORIDA

SHEET NUMBER
L-03



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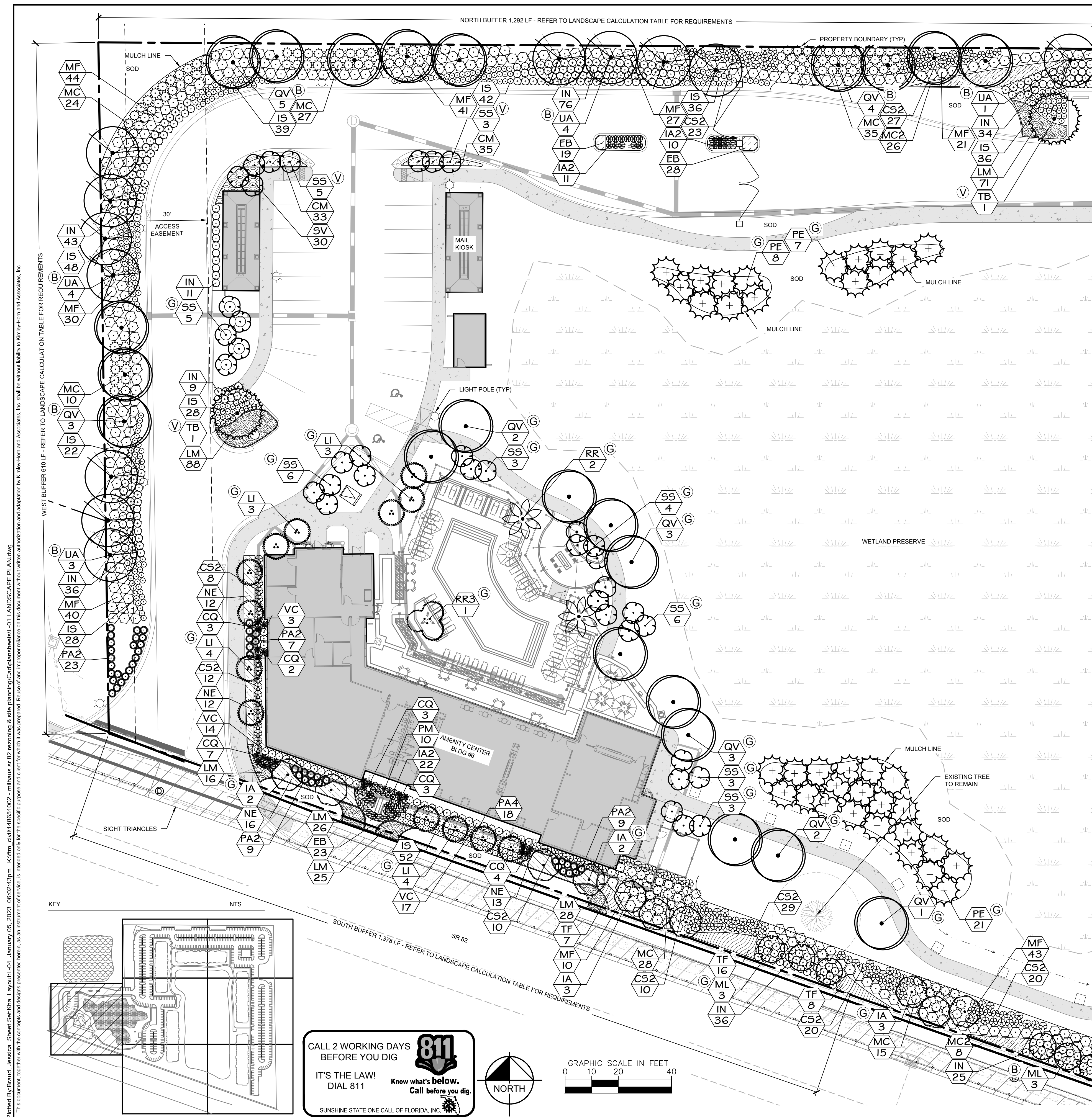


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LITTORAL PLANTING

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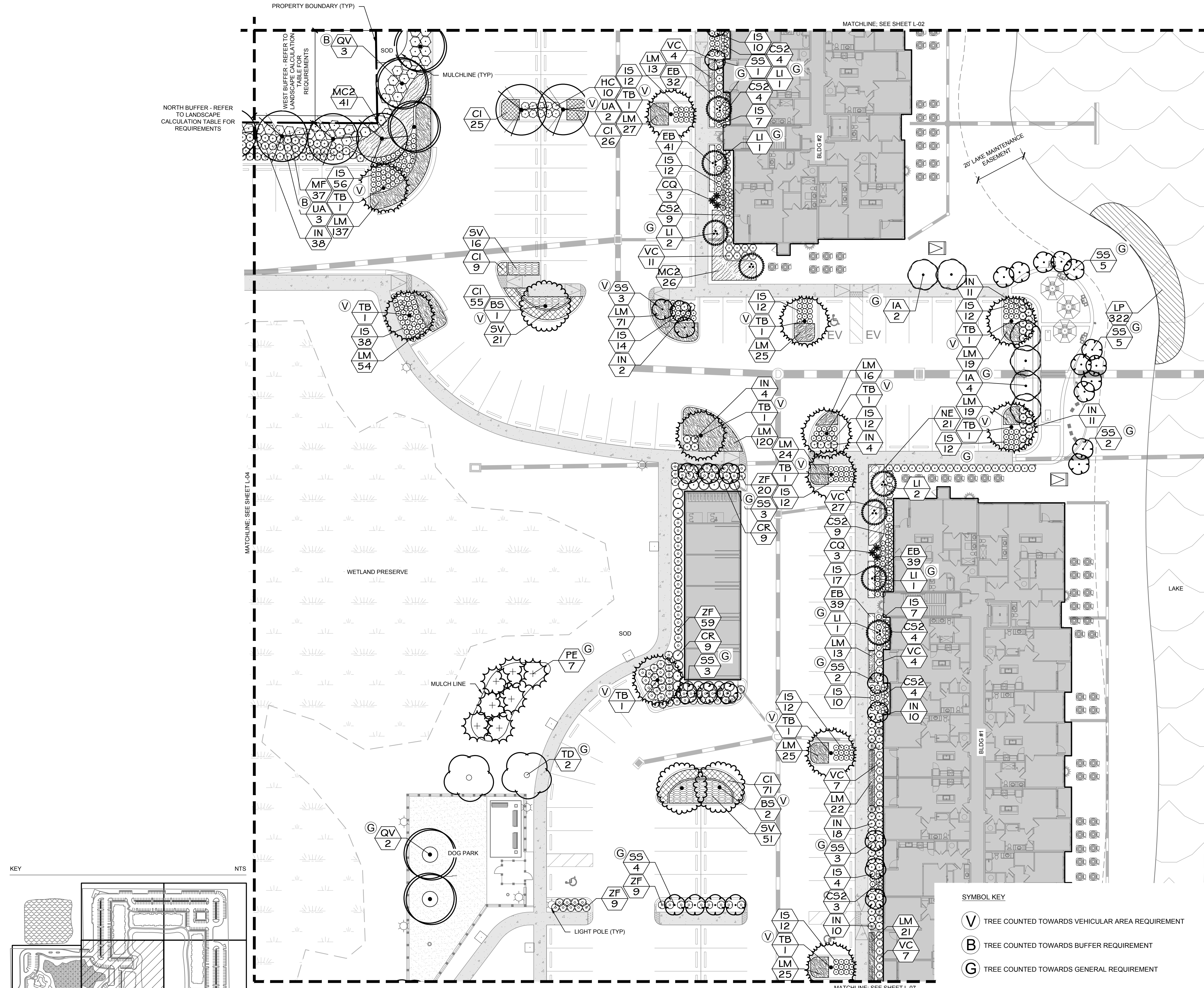
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GMP SET - NOT FOR CONSTRUCTION

	LICENSED PROFESSIONAL JENNIFER L. DAOUAS P.L.A. 200 CENTRAL AVENUE, SUITE 600 ST. PETERSBURG, FL 33701 PHONE: 727-581-8989 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106	KHA PROJECT 149651002	DATE JANUARY 2023	SCALE AS SHOWN	DESIGNED BY KHA	DRAWN BY KHA	CHECKED BY JLD	DATE
	CODE MINIMUM LANDSCAPE PLAN	HIGHWAY 82 MULTI-FAMILY PREPARED FOR MILHAUS DEVELOPMENT, LLC	SHEET NUMBER L-04	REVISIONS	BY			

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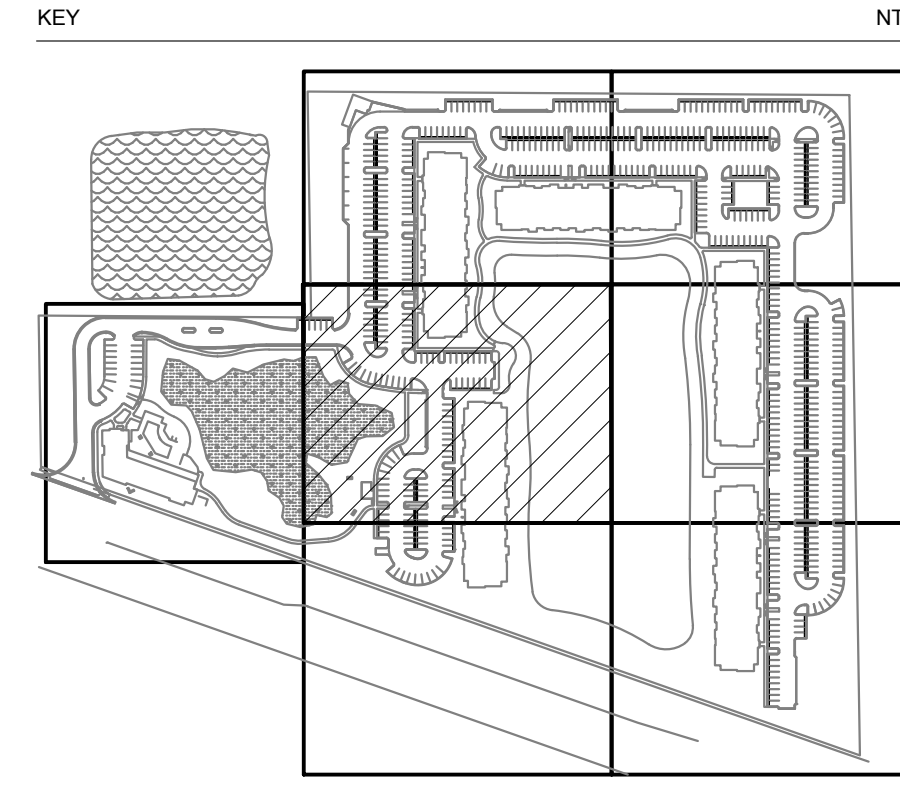
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LP	REFER TO DETAILS 1 & 2 AND PLANT SCHEDULE ON SHEET L-13.



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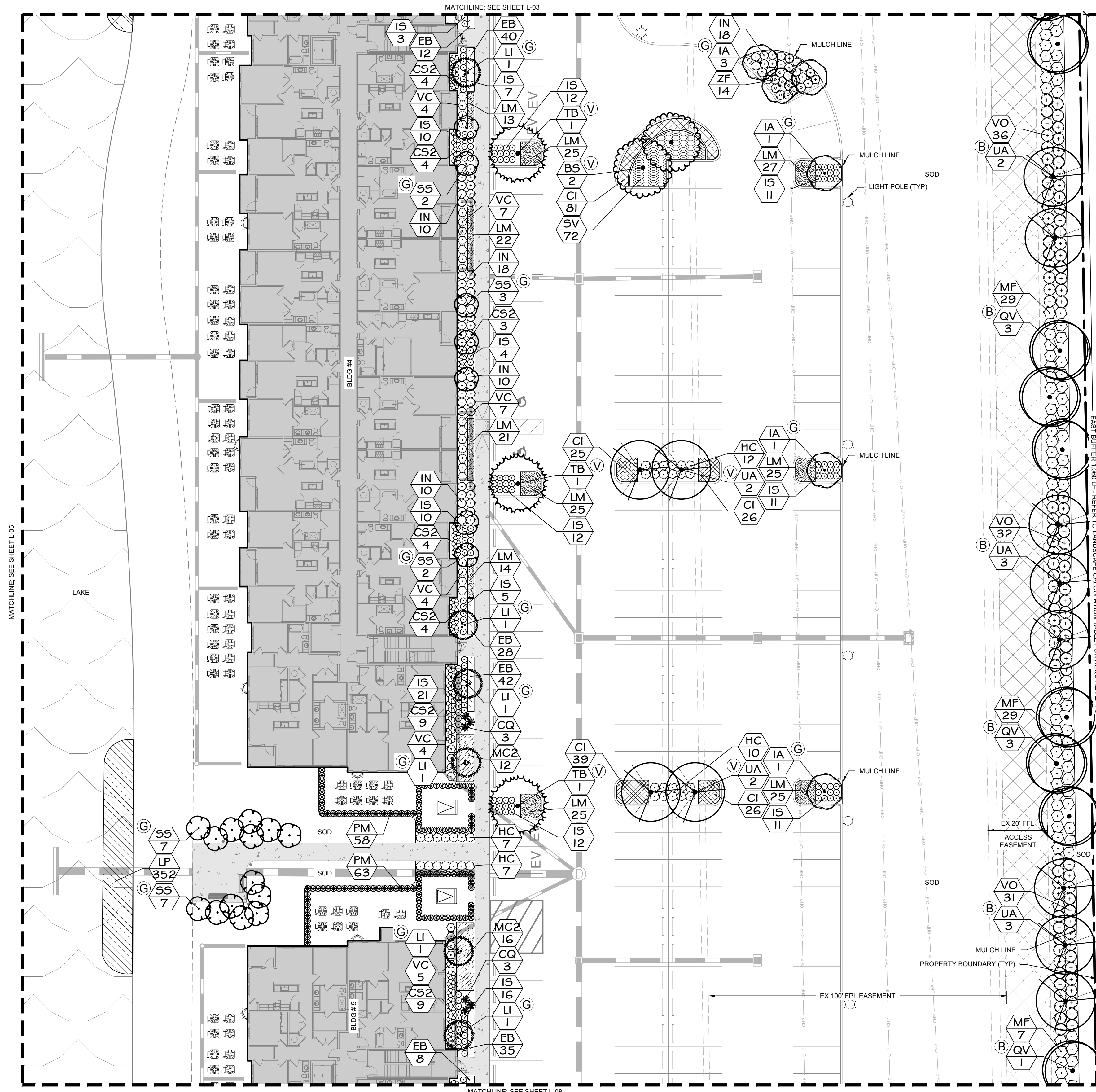
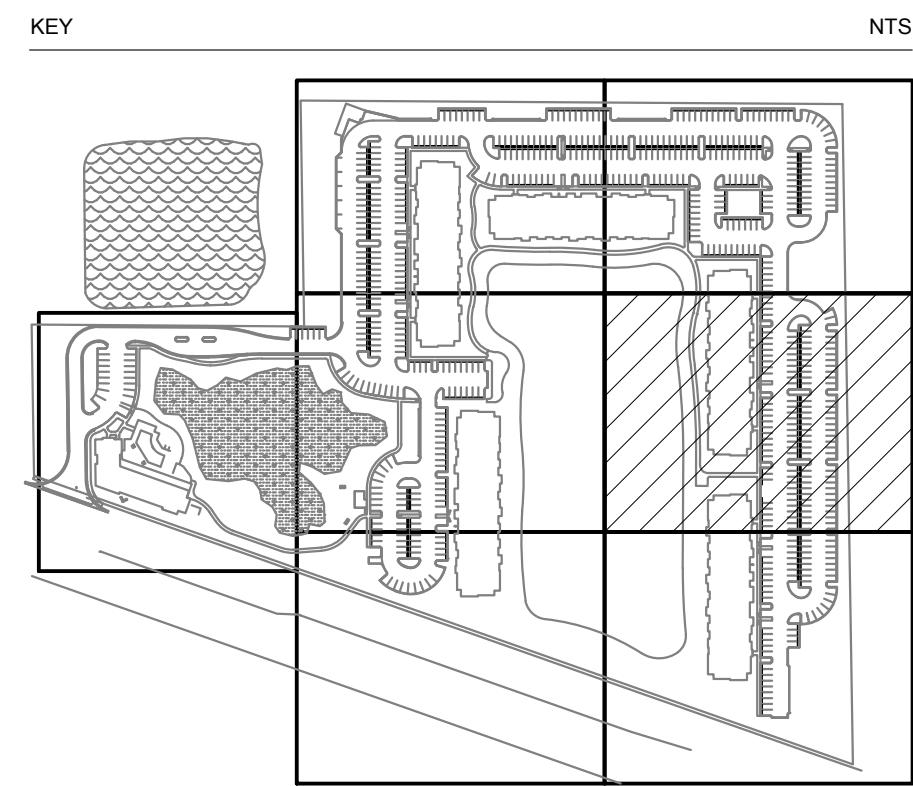
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 LICENSED PROFESSIONAL
 JENNIFER L. DAOUAS P.L.A.
 200 CENTRAL AVENUE, SUITE 600
 ST. PETERSBURG, FL 33701
 PHONE: 727-581-9899
 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106
 FLORIDA LICENSE NUMBER 6667369

KHA PROJECT	DATE	SCALE	DRAWN BY	CHECKED BY
149651002	JANUARY 2023	AS SHOWN	KHA	KHA

HIGHWAY 82
MULTI-FAMILY
 PREPARED FOR
MILHAUS DEVELOPMENT, LLC
 CITY OF FORT MYERS, FLORIDA

CODE MINIMUM LANDSCAPE PLAN
 SHEET NUMBER
L-05
 GMP SET - NOT FOR CONSTRUCTION

Project: By: Braud, Jessica
 Sheet: Schematic Layout L-06
 Date: January 05, 2023
 08:02:47pm
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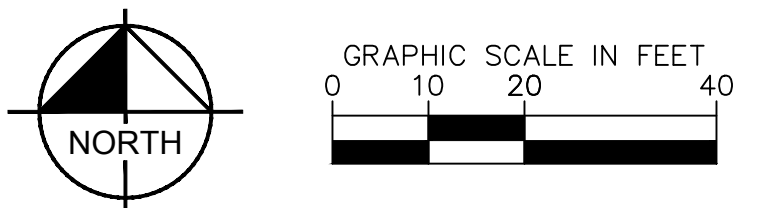
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LP	REFER TO DETAILS 1 & 2 AND PLANT SCHEDULE ON SHEET L-13.

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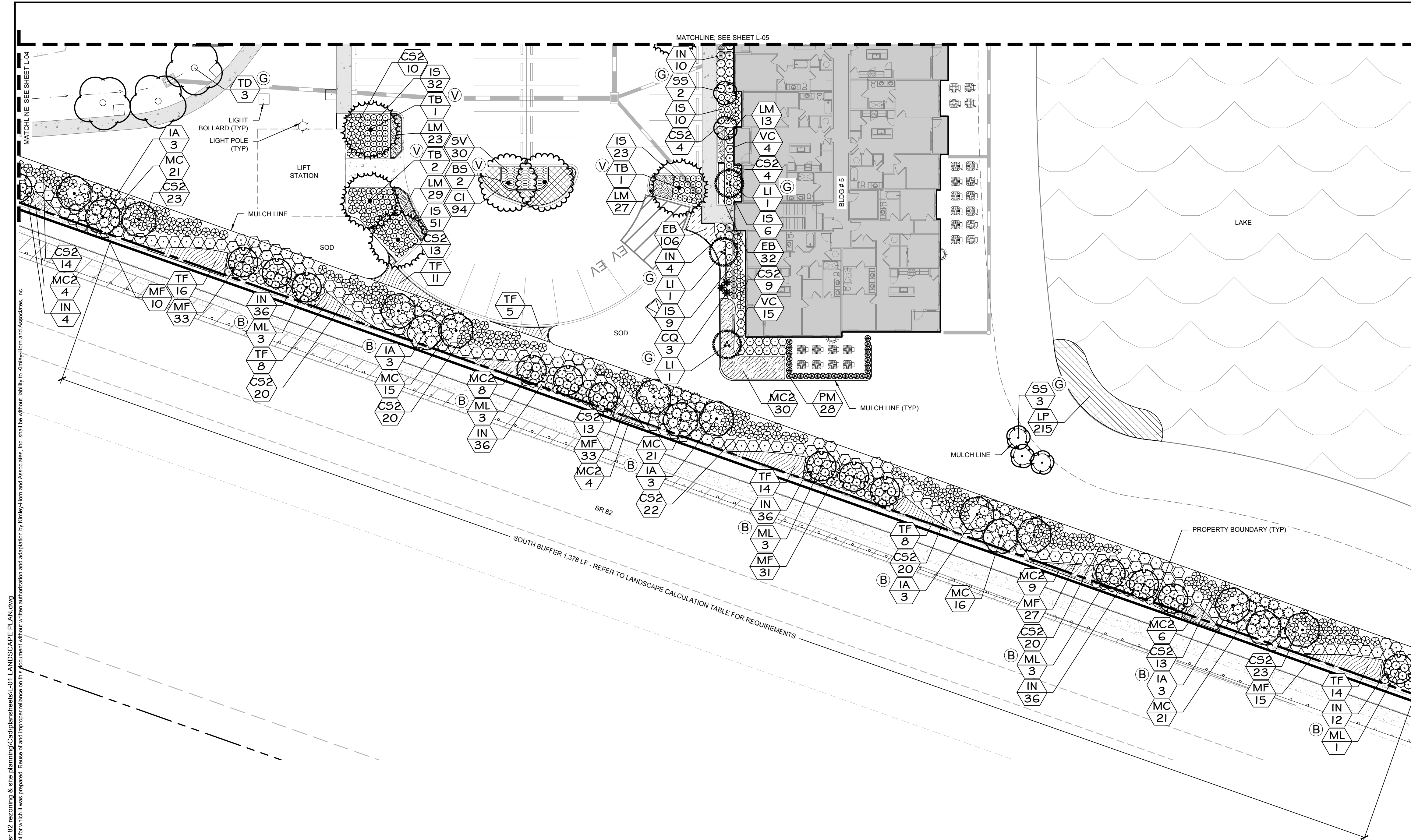
- SYMBOL KEY**
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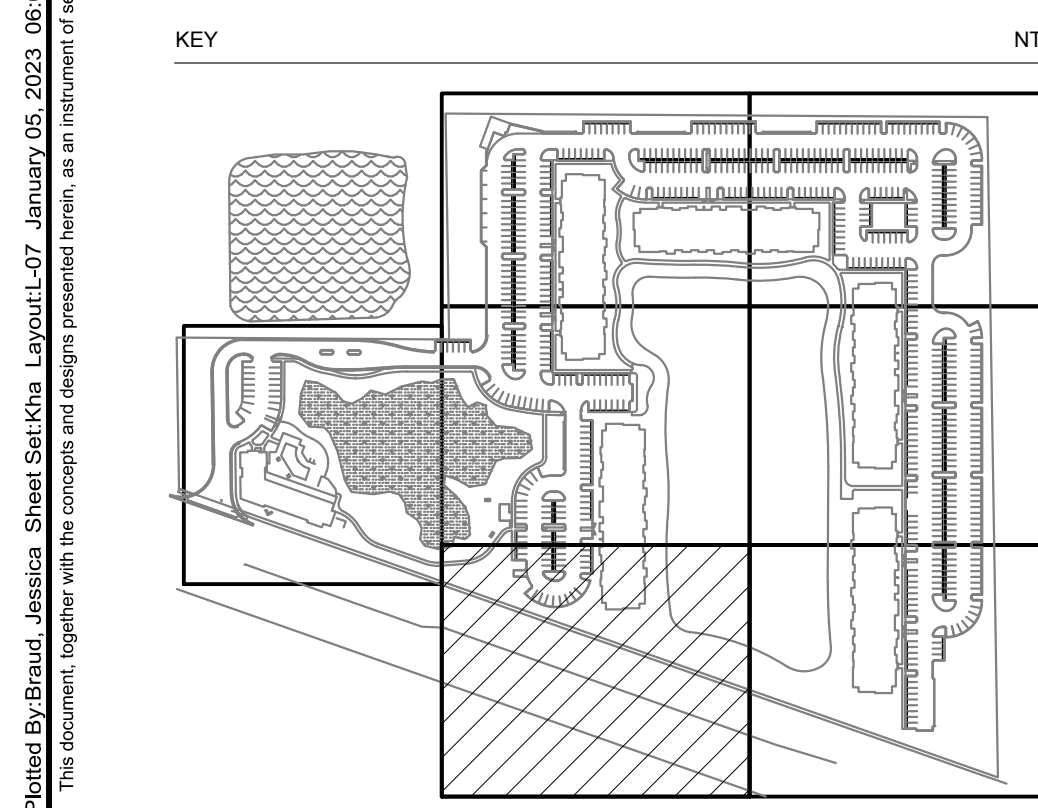
HIGHWAY 82 MULTI-FAMILY PREPARED FOR MILHAUS DEVELOPMENT, LLC CITY OF FORT MYERS, FLORIDA	CODE MINIMUM LANDSCAPE PLAN
KHA PROJECT 149651002 DATE JANUARY 2023 SCALE AS SHOWN DRAWN BY KHA CHECKED BY KHA	LICENSED PROFESSIONAL JENNIFER L. DAOUAS P.L.A. FLORIDA LICENSE NUMBER 6667369
SHEET NUMBER L-06	GMP SET - NOT FOR CONSTRUCTION

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 ST. PETERSBURG, FL 33701
 PHONE: 727-581-9899
 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

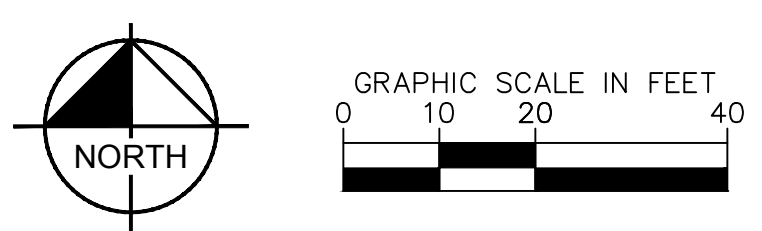
NO.	REVISIONS	DATE	BY



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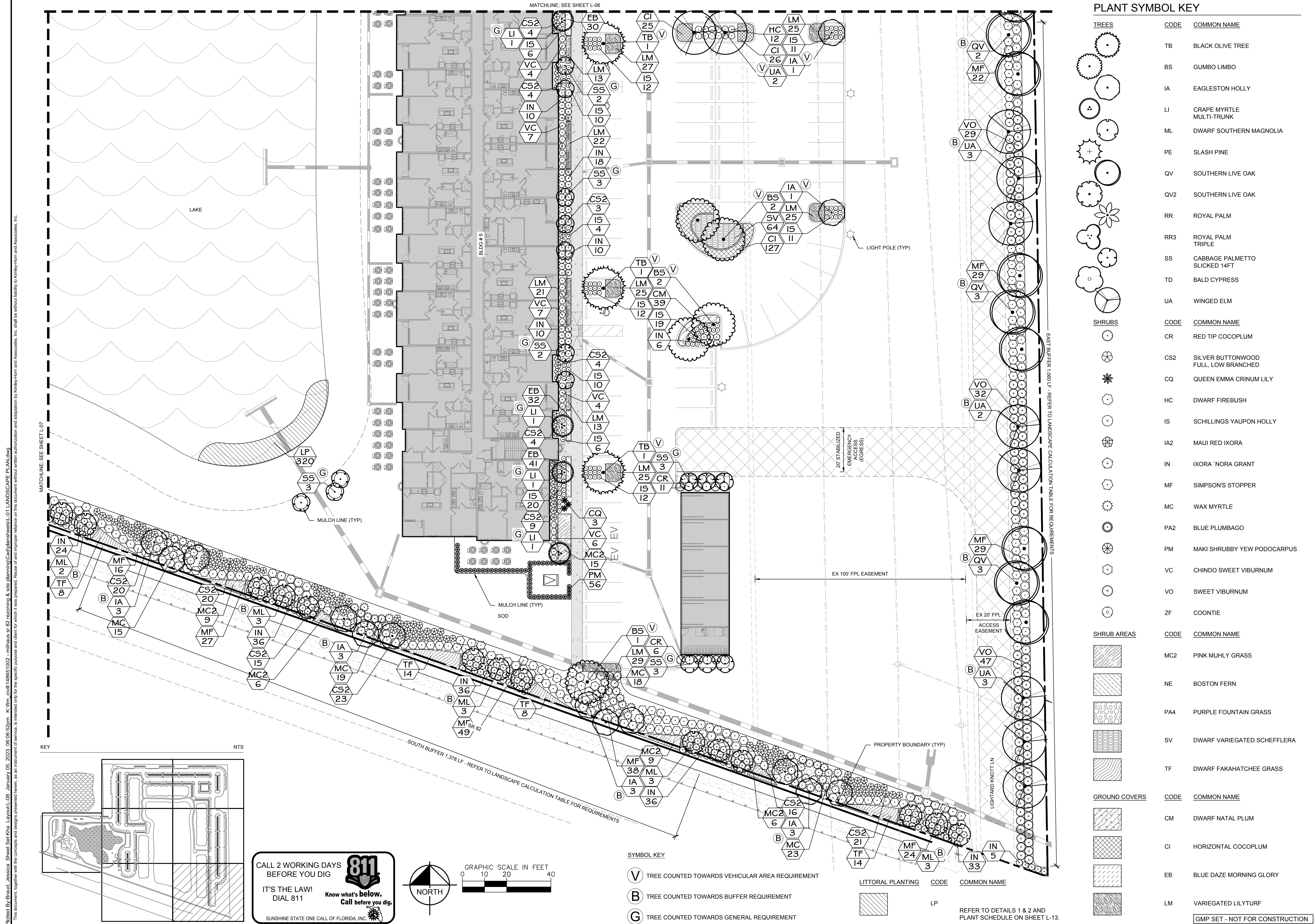
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LITTORAL PLANTING CODE COMMON NAME
 LP REFER TO DETAILS 1 & 2 AND PLANT SCHEDULE ON SHEET L-13.

 200 CENTRAL AVENUE, SUITE 600 ST. PETERSBURG, FL 33701 PHONE: 727-581-9899 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106		REVISIONS No. DATE BY
LICENSED PROFESSIONAL JENNIFER L. DAQUILA P.L.A. FLORIDA LICENSE NUMBER 6667369	KHA PROJECT 149651002 DATE JANUARY 2023 SCALE AS SHOWN DESIGNED BY KHA DRAWN BY KHA CHECKED BY JLD	No. DATE BY
CODE MINIMUM LANDSCAPE PLAN		SHEET NUMBER L-07
HIGHWAY 82 MULTI-FAMILY PREPARED FOR MILHAUS DEVELOPMENT, LLC CITY OF FORT MYERS, FLORIDA		GMP SET - NOT FOR CONSTRUCTION

Project: By Brand, Jessica. Sheet: Schedules. Layout: L-08. January 05, 2023. 08:08:52am. K:\fm_south\149651002_milhaus_sfr_02_resizing_&_site_planning\Coord\plan\sheet\01_LANDSCAPE_PLAN.dwg
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	IA	EAGLESTON HOLLY	
	LI	CRAPE MYRTLE MULTI-TRUNK	
	ML	DWARF SOUTHERN MAGNOLIA	
	PE	SLASH PINE	
	QV	SOUTHERN LIVE OAK	
	QV2	SOUTHERN LIVE OAK	
	RR	ROYAL PALM	
	RR3	ROYAL PALM TRIPLE	
	SS	CABBAGE PALMETTO SLICKED 14FT	
	TD	BALD CYPRESS	
	UA	WINGED ELM	
	VO	SOUTHERN LIVE OAK	
	VO2	SOUTHERN LIVE OAK	
	RR	ROYAL PALM	
	RR3	ROYAL PALM TRIPLE	
	SS	CABBAGE PALMETTO SLICKED 14FT	
	TD	BALD CYPRESS	
	UA	WINGED ELM	
	VO	SOUTHERN LIVE OAK	
	VO2	SOUTHERN LIVE OAK	

SHRUBS		CODE	COMMON NAME
	CR	RED TIP COCOPLUM	
	CS2	SILVER BUTTONWOOD FULL, LOW BRANCHED	
	CQ	QUEEN EMMA CRINUM LILY	
	HC	DWARF FIREBUSH	
	IS	SCHILLINGS YAUPON HOLLY	
	IA2	MAUI RED IXORA	
	IN	IXORA 'NORA GRANT	
	MF	SIMPSON'S STOPPER	
	MC	WAX MYRTLE	
	PA2	BLUE PLUMBAGO	
	PM	MAKI SHRUBBY YEW PODOCARPUS	
	VC	CHINDO SWEET VIBURNUM	
	VO	SWEET VIBURNUM	
	ZF	COONTIE	

SHRUB AREAS		CODE	COMMON NAME
	MC2	PINK MUHLY GRASS	
	NE	BOSTON FERN	
	PA4	PURPLE FOUNTAIN GRASS	
	SV	DWARF VARIEGATED SCHEFFLERA	
	TF	DWARF FAKAHATCHEE GRASS	

GROUND COVERS		CODE	COMMON NAME
	CM	DWARF NATAL PLUM	
	CI	HORIZONTAL COCOPLUM	
	EB	BLUE DAZE MORNING GLORY	
	LM	VARIEGATED LILYTURF	

LITTORAL PLANTING		CODE	COMMON NAME
	LP		

NO.	REVISIONS	DATE	BY

Kimley-Horn
 200 CENTRAL AVENUE, SUITE 600
 ST. PETERSBURG, FL 33701
 PHONE: 727-561-9899
 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

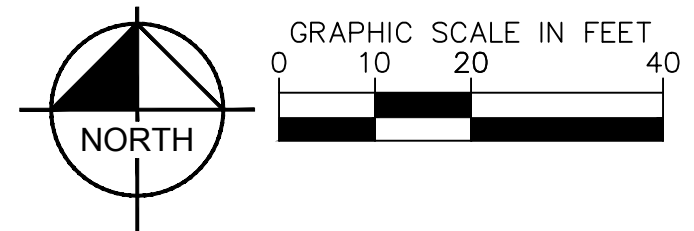
LICENSED PROFESSIONAL	JENNIFER L. DAQUILA P.L.A.	FLORIDA LICENSE NUMBER	6667369
KHA PROJECT	149651002	DATE	JANUARY 2023
SCALE	AS SHOWN	DESIGNED BY	KHA
DRAWN BY	KHA	CHECKED BY	JLD

**CODE MINIMUM
 LANDSCAPE PLAN**

**HIGHWAY 82
 MULTI-FAMILY**
 PREPARED FOR
**MILHAUS DEVELOPMENT,
 LLC**
 CITY OF FORT MYERS, FLORIDA

SHEET NUMBER
L-08

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- SYMBOL KEY**
- TREE COUNTED TOWARDS VEHICULAR AREA REQUIREMENT
 - TREE COUNTED TOWARDS BUFFER REQUIREMENT
 - TREE COUNTED TOWARDS GENERAL REQUIREMENT

REFER TO DETAILS 1 & 2 AND
 PLANT SCHEDULE ON SHEET L-13.

GMP SET - NOT FOR CONSTRUCTION

Printed By: Brenda, Jessica, Sheet Set: KHA, Layout: SCHEDULE, January 05, 2023, 08:07:21 pm, K:\bin_civil\148651002_milhaus_s2_82_rezoning_s2_site_planning\CA\148651002-01 LANDSCAPE INDEX.dwg
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PLANT SCHEDULE

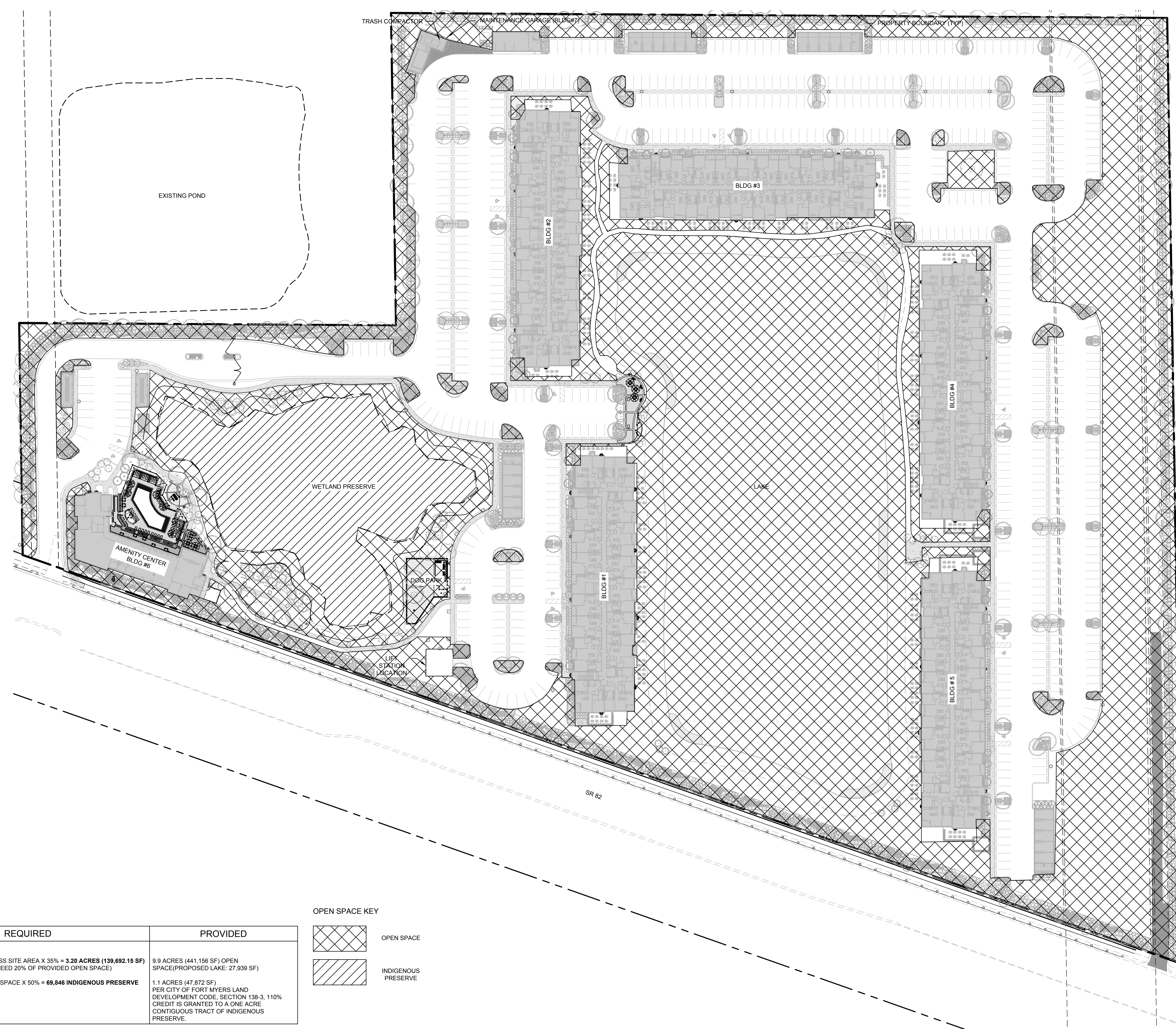
TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CAL (MIN)	CONT (MIN)	HEIGHT (MIN)	SPREAD	SPACING	NATIVE
	TB	35	BUCIDA BUCERAS 'SHADY LADY'	BLACK OLIVE TREE	2 IN CAL	FG	10 FT MIN	4 FT MIN	AS SHOWN	NO
	BS	27	BURSERIA SIMARUBA	GUMBO LIMBO	2 IN CAL	FG	10 FT MIN	4 FT MIN	AS SHOWN	YES
	IA	78	ILEX X ATTENUATA 'EAGLESTON'	EAGLESTON HOLLY	2 IN CAL	FG	10 FT MIN	5 FT MIN	AS SHOWN	YES
	LI	52	LAGERSTROEMIA INDICA 'TUSCARORA' MULTI-TRUNK	CRAPE MYRTLE	---	FG	10 FT MIN	6 FT MIN	AS SHOWN	NO
	ML	33	MAGNOLIA GRANDIFLORA 'BRACKEN'S BROWN'	DWARF SOUTHERN MAGNOLIA	2 IN CAL	FG	6 FT MIN	3 FT MIN	AS SHOWN	YES
	PE	43	PINUS ELLIOTTI Densa	SLASH PINE	30 GAL	POT	10 - 14 FT (VARIES)	4 FT MIN	AS SHOWN	YES
	QV	75	QUERCUS VIRGINIANA	SOUTHERN LIVE OAK	2 IN CAL	FG	10 FT MIN	4 FT MIN	AS SHOWN	YES
	QV2	1	QUERCUS VIRGINIANA	SOUTHERN LIVE OAK	6 IN CAL	FG	20 FT MIN	10 FT MIN	AS SHOWN	YES
	RR	2	ROYSTONIA REGIA	ROYAL PALM	HEAVY	FG	10 FT GW	4 FT MIN	AS SHOWN	YES
	RR3	1	ROYSTONIA REGIA TRIPLE	ROYAL PALM	HEAVY	FG	10 FT GW	4 FT MIN	AS SHOWN	YES
	SS	153	SABAL PALMETTO SLICKED 14FT	CABBAGE PALMETTO	FULLY REGENERATED	FG	16 FT CT	4 FT MIN	AS SHOWN	YES
	TD	5	TAXODIUM DISTICHUM	BALD CYPRESS	3 IN CAL	FG	8 - 10 FT	3 - 4 FT	AS SHOWN	YES
	UA	58	ULMUS ALATA	WINGED ELM	2 IN CAL	FG	10 FT MIN	4 FT MIN	AS SHOWN	YES
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONT	HEIGHT	SPREAD	SPACING	NATIVE
	CR	82	CHRYSOBALANUS ICACO 'RED TIP'	RED TIP COCOPLUM	7 GAL	POT	24 IN MIN	24 IN MIN	48 IN OC	YES
	CS2	755	CONOCARPUS ERECTUS 'SERICEUS' FULL, LOW BRANCHED	SILVER BUTTONWOOD	7 GAL	POT	36 IN MIN	24 IN MIN	48 IN OC	YES
	CQ	53	CRINUM AUGUSTUM 'QUEEN EMMA'	QUEEN EMMA CRINUM LILY	7 GAL	POT	30 IN MIN	30 IN MIN	36 IN OC	NO
	HC	145	HAMELIA PATENS 'COMPACTA'	DWARF FIREBUSH	3 GAL	POT	18 IN MIN	18 IN MIN	36 IN OC	NO
	IS	1,444	ILEX VOMITORIA 'SCHILLINGS'	SCHILLINGS YAUPON HOLLY	3 GAL	POT	18 IN MIN	18 IN MIN	24 IN OC	YES
	IA2	43	IXORA COCCINEA 'MAUI RED'	MAUI RED IXORA	3 GAL	POT	12 IN MIN	12 IN MIN	30 IN OC	NO
	IN	1,062	IXORA X 'NORA GRANT'	IXORA 'NORA GRANT'	7 GAL	POT	30 IN MIN	30 IN MIN	36 IN OC	NO
	MF	1,135	MYRCIANTHES FRAGRANS	SIMPSON'S STOPPER	7 GAL	POT	24 IN MIN	24 IN MIN	48 IN OC	YES
	MC	308	MYRICA CERIFERA	WAX MYRTLE	7 GAL	POT	36 IN MIN	24 IN MIN	48 IN OC	YES
	PA2	48	PLUMBAGO AURICULATA	BLUE PLUMBAGO	3 GAL	POT	12 IN MIN	18 IN MIN	36 IN OC	NO
	PM	215	PODOCARPUS MACROPHYLLUS 'MAKI'	MAKI SHRUBBY YEW PODOCARPUS	7 GAL	POT	48 IN MIN	18 IN MIN	24 IN OC	NO
	VC	271	VIBURNUM AWABUKI 'CHINDO'	CHINDO SWEET VIBURNUM	7 GAL	POT	24 IN MIN	24 IN MIN	36 IN OC	NO
	VO	476	VIBURNUM ODORATISSIMUM	SWEET VIBURNUM	7 GAL	POT	24 IN MIN	24 IN MIN	48 IN OC	NO
	ZF	201	ZAMIA PUMILA	COONTIE	5 GAL	POT	18 IN MIN	18 IN MIN	36 IN OC	YES
SHRUB AREAS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONT	HEIGHT	SPREAD	SPACING	NATIVE
	MC2	253	MUHLENBERGIA CAPILLARIS	PINK MUHLY GRASS	1 GAL	POT	18 IN MIN	18 IN MIN	36 IN OC	YES
	NE	171	NEPHROLEPIS EXALTATA	BOSTON FERN	3 GAL	POT	18 IN MIN	18 IN MIN	36 IN OC	YES
	PA4	18	PENNISETUM SETACEUM 'RUBRUM'	PURPLE FOUNTAIN GRASS	1 GAL	POT	12 IN MIN	12 IN MIN	36 IN OC	NO
	SV	467	SCHEFFLERA ARBORICOLA 'VARIEGATA'	DWARF VARIEGATED SCHEFFLERA	3 GAL	POT	14 IN MIN	12 IN MIN	24 IN OC	NO
	TF	151	TRIPSACUM FLORIDANUM	DWARF FAKAHATCHEE GRASS	1 GAL	POT	18 IN MIN	18 IN MIN	36 IN OC	YES
GROUND COVERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONT	HEIGHT	SPREAD	SPACING	NATIVE
	CM	281	CARISSA MACROCARPA	DWARF NATAL PLUM	1 GAL	POT	4 IN MIN	4 IN MIN	18 IN OC	NO
	CI	1,244	CHRYSOBALANUS ICACO 'HORIZONTAL'	HORIZONTAL COCOPLUM	1 GAL	POT	4 IN MIN	4 IN MIN	18 IN OC	YES
	EB	1,025	EVOLVULUS GLOMERATUS	BLUE DAZE MORNING GLORY	1 GAL	POT	4 IN MIN	4 IN MIN	12 IN OC	NO
	LM	2,199	LIRIOPE MUSCARI 'VARIEGATA'	VARIEGATED LILYTURF	1 GAL	POT	4 IN MIN	4 IN MIN	18 IN OC	NO
LITTORAL PLANTING	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONT	HEIGHT	SPREAD	SPACING	NATIVE
	LP	1,775			---					
										REFER TO DETAILS 1 & 2 AND PLANT SCHEDULE ON SHEET L-13.

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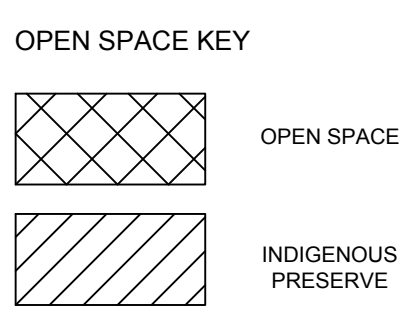
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 200 CENTRAL AVENUE, SUITE 600 ST. PETERSBURG, FL 33701 PHONE: 727-581-9999 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106	
LICENSED PROFESSIONAL JENNIFER L. DAQUILAS P.L.A. FLORIDA LICENSE NUMBER 6667369	
KHA PROJECT 148651002	DATE JANUARY 2023
SCALE AS SHOWN	DESIGNED BY KHA
DRAWN BY KHA	CHECKED BY JLD
<h1>PLANT SCHEDULE</h1>	
HIGHWAY 82 MULTI-FAMILY PREPARED FOR MILHAUS DEVELOPMENT, LLC CITY OF FORT MYERS, FLORIDA	
SHEET NUMBER <h1>L-09</h1>	
REVISIONS No.	DATE BY

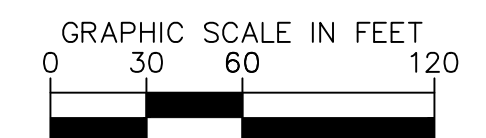
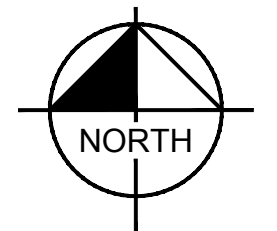
Project: By: Braud, Jessica Sheet: Site Plan Layout: OPEN SPACE January 05, 2023 08:07:49pm K:\fm_civil\149651002_milhaus_sr 82 rezoning & site planning\Cadd\plan\shs\01 LANDSCAPE INDEX.dwg
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	REQUIRED	PROVIDED
OPEN SPACE / INDIGENOUS AREA		
35% OF GROSS SITE AREA SHALL BE OPEN SPACE	21.38 ACRES (931,281 SF) GROSS SITE AREA X 35% = 3.20 ACRES (139,692.15 SF) (PROPOSED LAKE NOT TO EXCEED 20% OF PROVIDED OPEN SPACE)	9.9 ACRES (441,156 SF) OPEN SPACE (PROPOSED LAKE: 27,939 SF)
50% OF REQUIRED OPEN SPACE SHALL BE INDIGENOUS PRESERVE SECTION 138.41.E	3.20 ACRES (139,692 SF) OPEN SPACE X 50% = 69,846 INDIGENOUS PRESERVE	1.1 ACRES (47,872 SF) PER CITY OF FORT MYERS LAND DEVELOPMENT CODE, SECTION 138-3, 110% CREDIT IS GRANTED TO A ONE ACRE CONTIGUOUS TRACT OF INDIGENOUS PRESERVE.



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HIGHWAY 82 MULTI-FAMILY PREPARED FOR MILHAUS DEVELOPMENT, LLC CITY OF FORT MYERS FLORIDA	OPEN SPACE PLAN	KHA PROJECT 149651002 DATE JANUARY 2023 SCALE AS SHOWN DESIGNED BY KHA DRAWN BY KHA CHECKED BY JLD	LICENSED PROFESSIONAL JENNIFER L. DAQUILA P.L.A. FLORIDA LICENSE NUMBER 6667369
		200 CENTRAL AVENUE, SUITE 600 ST. PETERSBURG, FL 33701 PHONE: 727-581-9899 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106	
		REVISIONS No. DATE BY	
SHEET NUMBER L-10			

LANDSCAPE SPECIFICATIONS

1. SCOPE OF WORK

- THE WORK CONSISTS OF: FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THESE PLANS.
- WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL CONTRACT PLANTING AREAS UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER.
- WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS.

2. PROTECTION OF EXISTING AND PROPOSED SITE ELEMENTS

- PROTECT ALL EXISTING SITE ITEMS, ALREADY COMPLETED OR ESTABLISHED AND DESIGNATED TO REMAIN FROM DAMAGE BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM THE CONTRACTOR'S WORK SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER, AT NO COST TO THE OWNER.
- MAINTAIN ALL NECESSARY BMP DEVICES THROUGHOUT THE DURATION OF ALL CONSTRUCTION ACTIVITIES.
- WHERE APPLICABLE, SUBMIT A DETAILED PROJECT SPECIFIC WORK ZONE TRAFFIC CONTROL PLAN IN ACCORDANCE WITH THE APPROPRIATE REGULATORY AGENCY STANDARDS UNLESS THE WORK REQUIRES NOTHING MORE THAN A DIRECT APPLICATION OF FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, INDEX 102-600.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, WHETHER PUBLIC OR PRIVATE, PRIOR TO CONSTRUCTION ACTIVITIES. THE INFORMATION AND DATA SHOWN WITH RESPECT TO EXISTING UTILITIES IS APPROXIMATE. THE OWNER AND DESIGN PROFESSIONAL SHALL NOT BE RESPONSIBLE FOR THE ACCURACY AND COMPLETENESS OF ANY SUCH INFORMATION OR DATA. THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR: REVIEWING AND CHECKING ALL SUCH INFORMATION AND DATA; LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION; THE SAFETY AND PROTECTION THEREOF; REPAIRING ANY DAMAGE RESULTING FROM THE WORK. THE COST OF ALL WILL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT PRICE. THE CONTRACTOR SHALL NOTIFY ANY AFFECTED UTILITY COMPANIES OR AGENCIES IN WRITING AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING WHEN ANY CONFLICT BETWEEN UTILITIES AND THESE PLANS EXIST PRIOR TO PLANTING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO PLANT MATERIAL EXISTING OR OTHERWISE. THIS SHALL INCLUDE COMPACTION AND SPILLING OF ANY DELETERIOUS MATERIALS WITHIN THE DRIP LINE OF EXISTING TREES TO REMAIN. PLANT MATERIAL KILLED OR DAMAGED THAT IS MISSHAPEN AND/OR UNSIGHTLY SHALL BE REPLACED WITH LIKE SIZE AND KIND TO THE SATISFACTION OF THE OWNER OR REGULATORY AGENCY AT THE COST TO THE CONTRACTOR.
- SEE TREE MITIGATION PLAN AND NOTES, IF APPLICABLE.

3. SUBMITTALS

- SUBMIT MATERIAL SAMPLES LISTED BELOW FOR APPROVAL, ON SITE OR AS DETERMINED BY THE OWNER. UPON APPROVAL, DELIVERY OF MATERIALS MAY COMMENCE.

MATERIAL	SAMPLE SIZE
MULCH	ONE (1) GALLON PLASTIC BAG
SOIL MIXTURE	ONE (1) GALLON PLASTIC BAG
PLANTS	ONE (1) OF EACH VARIETY (OR TAGGED IN NURSERY)
- SUBMIT TESTING RESULTS OF SOIL MIXTURE AS PER SECTION 6 BELOW.

4. PLANT MATERIALS

- ALL PLANT MATERIAL SHALL CONFORM TO THE SPECIFICATIONS INDICATED ON THE DRAWINGS AND SHALL BE IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY PLANTS, LATEST EDITION, PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. ALL PLANTS SHALL BE FLORIDA GRADE NO. 1 OR BETTER AS DETERMINED BY THE FLORIDA DIVISION OF PLANT INDUSTRY. ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN PERMISSION FROM THE LANDSCAPE ARCHITECT AND OWNER.
- ALL TREE SPECIES INSTALLED SHALL BE MATCHED IN SIZE AND SHAPE UNLESS NOTED OTHERWISE.
- PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, UPON DELIVERY TO THE SITE. DURING PROGRESS OF THE WORK AND/OR AFTER COMPLETION, REJECTED PLANTS SHALL BE REMOVED AND REPLACED IMMEDIATELY.

5. DIGGING AND HANDLING

- PROTECT ROOTS OR ROOT BALLS OF PLANTS AT ALL TIMES FROM SUN, DRYING WINDS, WATER AND FREEZING, AS NECESSARY UNTIL PLANTING. NO PLANT MATERIAL SHALL BE HANDLED BY STEMS.

6. SOIL MIXTURE (PLANTING MEDIUM, PLANTING MIX, TOPSOIL MIX)

- TEST EXISTING SOIL AND AMEND AS NECESSARY IN ACCORDANCE WITH THE GUIDELINES BELOW.
- SOIL MIXTURE (PLANTING MEDIUM FOR PLANT PITS) SHALL CONSIST OF TWO PARTS OF TOPSOIL AND ONE PART SAND, AS DESCRIBED BELOW. SUBMIT SAMPLES AND PH TESTING RESULTS OF SOIL MIXTURE FOR OWNER'S REPRESENTATIVE APPROVAL PRIOR TO PLANT INSTALLATION OPERATIONS COMMENCE.
- TOPSOIL FOR USE IN PREPARING SOIL MIXTURE FOR BACKFILLING PLANT PITS SHALL BE FERTILE, FRIABLE, AND OF A LOAMY CHARACTER, REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH WEEDS AND OTHER LITTER, FREE OF ROOTS, STUMPS, STONES LARGER THAN 2" IN ANY DIRECTION, AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH. IT SHALL CONTAIN THREE (3) TO FIVE (5) PERCENT DECOMPOSED ORGANIC MATTER AND HAVE A PH BETWEEN 5.5 AND 7.0.
- SAND SHALL BE COARSE, CLEAN, WELL-DRAINING, NATIVE SAND.
- PLANT TREES IN THE EXISTING NATIVE SOIL ON SITE, UNLESS DETERMINED TO BE UNSUITABLE - AT WHICH POINT THE CONTRACTOR SHALL CONTACT OWNER'S REPRESENTATIVE TO DISCUSS ALTERNATE RECOMMENDATION PRIOR TO PLANTING.
- TREES PLANTED IN TREE WELLS SHALL RECEIVE STRUCTURAL URBAN SOIL. MIX SHALL BE : 50% SAND, 20% PERLITE, 20% PINES FINES AND 10% ORGANIC SOIL.

7. WATER

- PROVIDE WATER NECESSARY FOR PLANTING ESTABLISHMENT AND MAINTENANCE. WATER SHALL BE OF SATISFACTORY QUALITY TO SUSTAIN ADEQUATE PLANT GROWTH AND SHALL NOT CONTAIN HARMFUL, NATURAL OR MAN-MADE ELEMENTS DETRIMENTAL TO PLANTS.
- WATERING/IRRIGATION RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

8. FERTILIZER

- PROVIDE FERTILIZER APPLICATION SCHEDULE TO OWNER, AS APPLICABLE TO SOIL TYPE, PLANT INSTALLATION TYPE, AND SITE'S PROPOSED USE. SUGGESTED FERTILIZER TYPES SHALL BE ORGANIC OR OTHERWISE NATURALLY-DERIVED.
- FERTILIZER RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

9. MULCH

- MOISTEN MULCH MATERIAL AT THE TIME OF APPLICATION TO PREVENT WIND DISPLACEMENT, AND APPLIED AT A MINIMUM DEPTH OF THREE (3) INCHES. CONTRACTOR SHALL CLEAR MULCH FROM WITHIN A SIX (6) INCH RADIUS AROUND TRUNK / STEM FLARE. MULCH SHALL BE "FLORIMULCH", EUCALYPTUS MULCH, OR SIMILAR SUSTAINABLY HARVESTED MULCH UNLESS SPECIFIED OTHERWISE.
- PROVIDE A THREE (3) INCH MINIMUM LAYER OF SPECIFIED MULCH OVER THE ENTIRE AREA OF EACH PLANTING BED AND TREE RING (SIX (6) FOOT DIAMETER MINIMUM).

10. CONTAINER GROWN STOCK

- CONTAINER GROWN PLANTS SHALL HAVE BEEN GROWN IN ITS CONTAINER SUFFICIENTLY LONG ENOUGH FOR THE NEW FIBROUS ROOTS TO HAVE DEVELOPED SO THAT THE ROOT MASS WILL RETAIN ITS SHAPE AND HOLD TOGETHER WHEN REMOVED FROM THE CONTAINER.
- INSUFFICIENT OR POORLY STRUCTURED ROOT SYSTEMS ARE NOT ACCEPTABLE AND WILL BE REJECTED.
- ROOTS PLUS GROWER (RPG) PRODUCTS SHALL BE USED WHERE SPECIFIED.

11. MATERIALS LIST

- ALL QUANTITIES ARE PROVIDED FOR CONVENIENCE ONLY. CONTRACTOR SHALL CONFIRM ALL QUANTITIES PER PLAN PRIOR TO BIDDING AND CONSTRUCTION.

12. FINE GRADING

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINE GRADING WHICH CONSISTS OF FINAL FINISHED GRADING (INCLUDING ADDITIONAL SOIL MIXTURE AS NEEDED) FOR LAWN AND PLANTING AREAS THAT HAVE BEEN ROUGH GRADED BY OTHERS. FINISH GRADE SHALL ACCOUNT FOR THICKNESS OF SOO AND/OR MULCH DEPTH.
- ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED FOR POSITIVE DRAINAGE TO SURFACE/SUBSURFACE STORM DRAIN SYSTEMS. AREAS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS. REFER TO CIVIL ENGINEER'S PLANS FOR FINAL GRADES, IF APPLICABLE.

13. PLANTING PROCEDURES

- CLEAN WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTIONABLE MATTER DAILY. REMOVE ALL MORTAR, CEMENT, AND TOXIC MATERIAL FROM THE SURFACE OF ALL PLANT BEDS. DO NOT MIX THESE MATERIALS WITH THE SOIL. SHOULD THE CONTRACTOR FIND SUCH SOIL CONDITIONS BENEATH THE SOIL WHICH WILL IN ANY WAY ADVERSELY AFFECT THE PLANT GROWTH, IMMEDIATELY CALL IT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
- LOCATE, MAINTAIN AND PROTECT ALL UTILITIES ABOVE AND BELOW GROUND. CALL SUNSHINE STATE ONE CALL OF FLORIDA, INC. (811) TO LOCATE UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
- NOTIFY LANDSCAPE ARCHITECT IN WRITING IMMEDIATELY IF CONFLICT(S) EXIST WITH PROPOSED TREE LOCATIONS AND EXISTING OVERHEAD POWER LINES IN ACCORDANCE WITH SETBACK REQUIREMENTS OF "RIGHT TREE, RIGHT PLACE" PROGRAM. CONSULT THE UNIVERSITY OF FLORIDA'S "TREES AND POWER LINE" WEBSITE FOR TREE SIZE CATEGORIES.
- NOTIFY LANDSCAPE ARCHITECT IN WRITING IMMEDIATELY IF CONFLICT(S) EXIST WITH PROPOSED TREE LOCATIONS AND EXISTING / PROPOSED LIGHT POLES. TREES INSTALLED IN CONFLICT WITH LIGHT POLES ARE SUBJECT TO RELOCATION AT THE EXPENSE OF THE CONTRACTOR.
- REMOVE ALL EXISTING AND IMPORTED DELETERIOUS MATERIAL AND SUB-BASE FROM ALL LANDSCAPE PLANTING AREAS TO A MINIMUM DEPTH OF 36" OR TO NATIVE SOIL. CONTRACTOR IS RESPONSIBLE TO BACKFILL THESE PLANTING AREAS TO ROUGH FINISHED GRADE AS NEEDED WITH CLEAN SOIL MIXTURE.
- FURNISH NURSERY'S CERTIFICATE OF COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS. COMPLY WITH APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK.
- EXCAVATE ALL PLANTING PITS IN ACCORDANCE WITH LANDSCAPE DETAILS PROVIDED. TEST ALL TREE PITS WITH WATER BEFORE PLANTING TO ASSURE PROPER DRAINAGE PERCOLATION IS AVAILABLE. IF POOR DRAINAGE EXISTS, NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IN WRITING. NO ALLOWANCE WILL BE MADE FOR LOST PLANTS DUE TO IMPROPER DRAINAGE. CONTRACTOR SHALL ENSURE ELIMINATION OF ALL AIR POCKETS AROUND ROOTS.
- SET TREES AND SHRUBS STRAIGHT AT AN ELEVATION THAT, AFTER SETTLEMENT, THE PLANT CROWN WILL STAND ONE (1) TO TWO (2) INCHES ABOVE GRADE. EACH PLANT SHALL BE SET IN THE CENTER OF THE PIT. PLANTING SOIL MIXTURE SHALL BE BACK FILLED, THOROUGHLY TAMPED AROUND THE BALL, AND SETTLED BY WATER (AFTER TAMPING).
- DO NOT COVER TOP OF BALL WITH SOIL MIXTURE. ALL BURLAP, ROPE, WIRES, BASKETS, ETC., SHALL BE REMOVED FROM UPPER ONE THIRD (1/3) OF ROOT BALLS.
- ALL SUCKER GROWTH AND BROKEN OR BADLY DAMAGED BRANCHES SHALL BE REMOVED WITH A CLEAN CUT IN ACCORDANCE WITH ANSI A-300.
- SHRUBS AND GROUND COVER PLANTS SHALL BE SPACED IN ACCORDANCE WITH THE DRAWINGS, LANDSCAPE DETAILS AND AS INDICATED ON THE PLANT LIST.
- TREE GUYING AND BRACING SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE PLANS TO INSURE STABILITY AND MAINTAIN TREES IN A PLUMB AND UPRIGHT POSITION.
- FAILURE TO FOLLOW THE ABOVE PLANTING PROCEDURE SHALL MAKE THE CORRECTIVE MEASURES THE RESPONSIBILITY OF THE CONTRACTOR.

14. LAWN SODDING

- THE WORK CONSISTS OF LAWN BED PREPARATION, SOIL PREPARATION, AND SODDING NECESSARY TO PRODUCE A TURF GRASS LAWN ACCEPTABLE TO THE OWNER.
- ALL AREAS THAT ARE TO BE SODDED SHALL BE CLEARED OF ANY ROUGH GRASS, WEEDS, AND DEBRIS TO A MINIMUM DEPTH OF THREE (3) INCHES. PROVIDE ONE (1) INCH OF TOPSOIL ACROSS ENTIRE LAWN BED AND MIX THOROUGHLY INTO TOP FOUR (4) INCHES OF SOIL TO BRING THE GROUND TO AN EVEN GRADE. THE ENTIRE SURFACE SHALL BE ROLLED WITH A ROLLER WEIGHING NOT MORE THAN ONE HUNDRED (100) POUNDS PER FOOT OF WIDTH. DURING THE ROLLING, ALL DEPRESSIONS CAUSED BY SETTLEMENT SHALL BE FILLED WITH ADDITIONAL TOPSOIL AND THE SURFACE SHALL BE REGRADED AND ROLLED UNTIL PRESENTING A SMOOTH AND EVEN FINISH TO THE REQUIRED GRADE.
- HAND RAKE LAWN BED UNTIL ALL BUMPS AND DEPRESSIONS ARE REMOVED. WET PREPARED AREA THOROUGHLY.
- SOD ALL AREAS THAT ARE NOT PAVED OR PLANTED AS DESIGNATED ON THE DRAWINGS WITHIN THE CONTRACT LIMITS, UNLESS SPECIFICALLY NOTED OTHERWISE.
- THE SOD SHALL BE CERTIFIED TO MEET FLORIDA STATE PLANT BOARD SPECIFICATIONS, ABSOLUTELY TRUE TO VARIETAL TYPE, AND FREE FROM WEEDS, FUNGUS, INSECTS AND DISEASE OF ANY KIND.
- SOD PANELS SHALL BE LAID TIGHTLY TOGETHER SO AS TO MAKE A SOLID SODDED LAWN AREA. SOD SHALL BE LAID UNIFORMLY AGAINST THE EDGES OF ALL CURBS AND OTHER HARDSCAPE ELEMENTS, PAVED AND PLANTED AREAS.
- IMMEDIATELY FOLLOWING SOD LAYING, ROLL LAWN AREAS WITH A LAWN ROLLER AND THEN THOROUGHLY IRRIGATED.
- IF, IN THE OPINION OF THE OWNER, TOP-DRESSING IS NECESSARY AFTER ROLLING TO FILL THE VOIDS BETWEEN THE SOD PANELS AND TO EVEN OUT INCONSISTENCIES IN THE SOD, CLEAN SAND, AS APPROVED BY THE OWNER'S REPRESENTATIVE, SHALL BE UNIFORMLY SPREAD OVER THE ENTIRE SURFACE OF THE SOD AND THOROUGHLY WATERED IN. FERTILIZE INSTALLED SOD AS ALLOWED BY PROPERTY'S JURISDICTIONAL AUTHORITY.
- DURING DELIVERY, PRIOR TO, AND DURING THE PLANTING OF THE LAWN AREAS, THE SOD PANELS SHALL AT ALL TIMES BE PROTECTED FROM EXCESSIVE DRYING AND UNNECESSARY EXPOSURE OF THE ROOTS TO THE SUN. ALL SOD SHALL BE STACKED SO AS NOT TO BE DAMAGED BY EXCESSIVE HEAT AND MOISTURE.
- WITHIN THE CONTRACT LIMITS, PRODUCE AND MAINTAIN A DENSE, WELL ESTABLISHED LAWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RE-SODDING OF ALL ERODED, SUNKEN OR BARE SPOTS UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. REPAIRED SODDING SHALL BE ACCOMPLISHED AS IN THE ORIGINAL WORK (INCLUDING REGRADE IF NECESSARY).

15. CLEANUP

- UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S REPRESENTATIVE.

16. PLANT MATERIAL MAINTENANCE

- ALL PLANT MATERIAL SHALL BE MAINTAINED BY WATERING, CULTIVATING, SPRAYING, AND ALL OTHER OPERATIONS (SUCH AS RE-STAKING OR REPAIRING GUY SUPPORTS) AS NECESSARY TO INSURE HEALTHY AND VIGOROUS GROWING CONDITIONS BY THE CONTRACTOR UPON DELIVERING TO THE SITE AND UNTIL FINAL ACCEPTANCE OF WORK.

17. FINAL INSPECTION AND ACCEPTANCE OF WORK

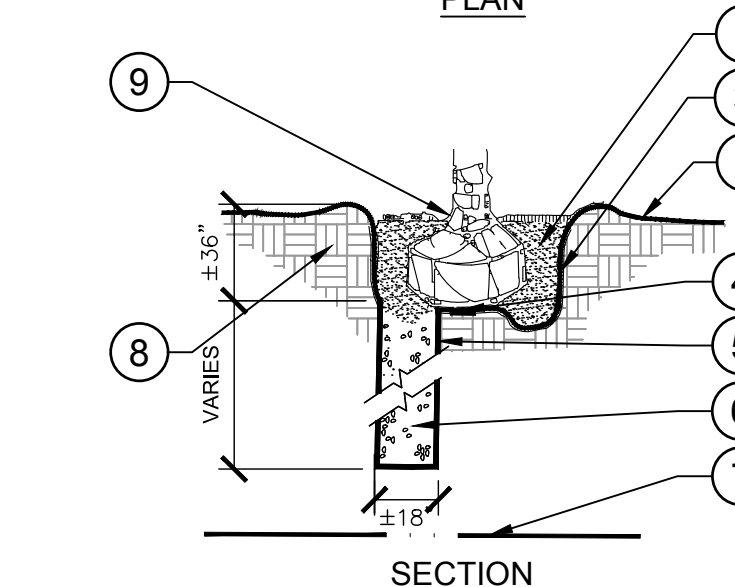
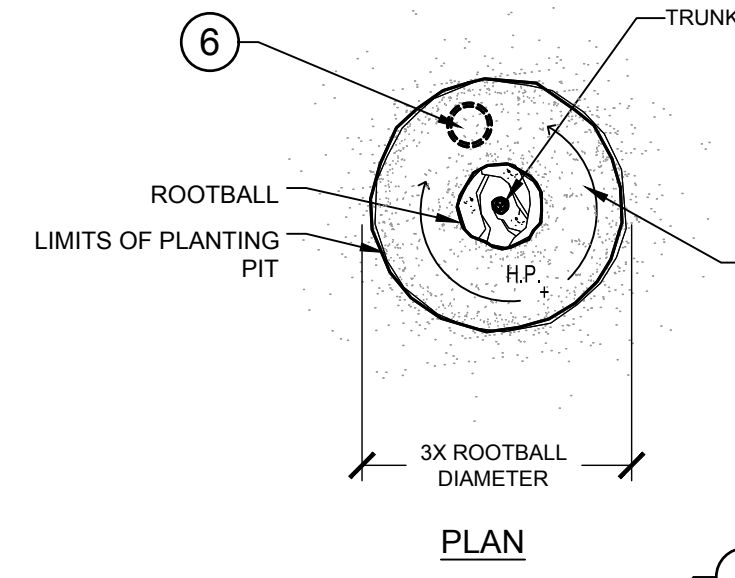
- ALL PLANT BEDS SHALL BE KEPT FREE OF NOXIOUS WEEDS UNTIL FINAL ACCEPTANCE OF WORK. PRIOR TO FINAL INSPECTION, TREAT ALL PLANTING BEDS WITH AN APPROVED PRE-EMERGENT HERBICIDE PER MANUFACTURER RECOMMENDATIONS. (AS ALLOWED BY JURISDICTIONAL AUTHORITY).
- PROVIDE WATERING/IRRIGATION SCHEDULE FOR ALL PLANT MATERIAL TO OWNER. OBSERVE ALL APPLICABLE WATERING RESTRICTIONS AS SET FORTH BY THE PROPERTY'S JURISDICTIONAL AUTHORITY.
- UPON COMPLETION OF ALL WORK, A FINAL INSPECTION SHALL BE PERFORMED BY THE OWNER AND/OR OWNER'S REPRESENTATIVE. ALL PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT SHALL BE INSPECTED FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. ANY ITEMS FOUND TO NOT BE IN COMPLIANCE SHALL BE CORRECTED AT THE COST OF THE CONTRACTOR.

18. WARRANTY

- THE LIFE AND SATISFACTORY CONDITION OF ALL PLANT MATERIAL INSTALLED BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION AND ACCEPTANCE OF THE WORK BY THE OWNER AND/OR OWNER'S REPRESENTATIVE.
- ANY PLANT NOT FOUND IN A HEALTHY GROWING CONDITION THROUGHOUT THE WARRANTY PERIOD SHALL BE REMOVED FROM THE SITE AND REPLACED AS SOON AS WEATHER CONDITIONS PERMIT. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED, PLANTED AND MULCHED AS SPECIFIED AT NO ADDITIONAL COST TO THE OWNER. ANY REPLACED PLANT MATERIAL SHALL BE SUBJECT TO A NEW ONE (1) YEAR WARRANTY.
- IN THE EVENT THE OWNER DOES NOT CONTRACT WITH THE CONTRACTOR FOR LANDSCAPE AND IRRIGATION MAINTENANCE, THE CONTRACTOR SHOULD VISIT THE PROJECT SITE PERIODICALLY DURING THE ONE (1) YEAR WARRANTY PERIOD TO EVALUATE MAINTENANCE PROCEDURES BEING PERFORMED BY THE OWNER. CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING OF MAINTENANCE PROCEDURES OR CONDITIONS WHICH THREATEN VIGOROUS AND HEALTHY PLANT GROWTH.

19. ABBREVIATIONS

B&B -	BALLED AND BURLAPPED
BR -	BARE ROOT
CAL -	CALIPER
CT -	CLEAR TRUNK
DBH -	DIAMETER AT BREAST HEIGHT
FG -	FIELD GROWN
FTG -	FULL TO GROUND
GW -	GREY WOOD
HO -	HARDENED OFF
OA -	OVERALL HEIGHT
RPG -	ROOTS PLUS GROWER



- FINISH GRADE (SEE GRADING PLANS).
- BACKFILL WITH PREPARED PLANTING SOIL MIX AS SPECIFIED.
- FILTER CLOTH, MIRAFI 500X OR BETTER.
- SLOPE BOTTOM TO DRAIN.
- AUGURED HOLE $\pm 18"$ PENETRATE THROUGH OCCCLUDING LAYER TO WATER TABLE OR TO A DEPTH OF 7' TO ASSURE PROPER PERCOLATION.
- BACKFILL WITH 1/2" - 3/4" GRAVEL TO REQUIRED DEPTH THROUGH OCCCLUDING LAYER TO ASSURE PROPER PERCOLATION.
- WATER TABLE. (DEPTH VARIES)
- UNDISTURBED NATIVE SOIL.
- SET ROOTBALL ON UNDISTURBED STABLE SUBSOIL SO THAT TOP OF ROOT BALL IS 1" ABOVE FINISHED GRADE.

- NOTES:
- THIS DETAIL SHALL BE IMPLEMENTED WHERE PERCOLATION RATES ARE 2" PER HOUR OR LESS.
 - CONTRACTOR TO PERFORM PERCOLATION TEST AS REQUIRED. AND NOTIFY OWNER/LANDSCAPE ARCHITECT.
 - SEE TYPICAL TREE PLANTING DETAIL THIS SHEET FOR PLANT STAKING.

1 POOR DRAINAGE CONDITION SECTION / PLAN NTS P-MI2-M11-09

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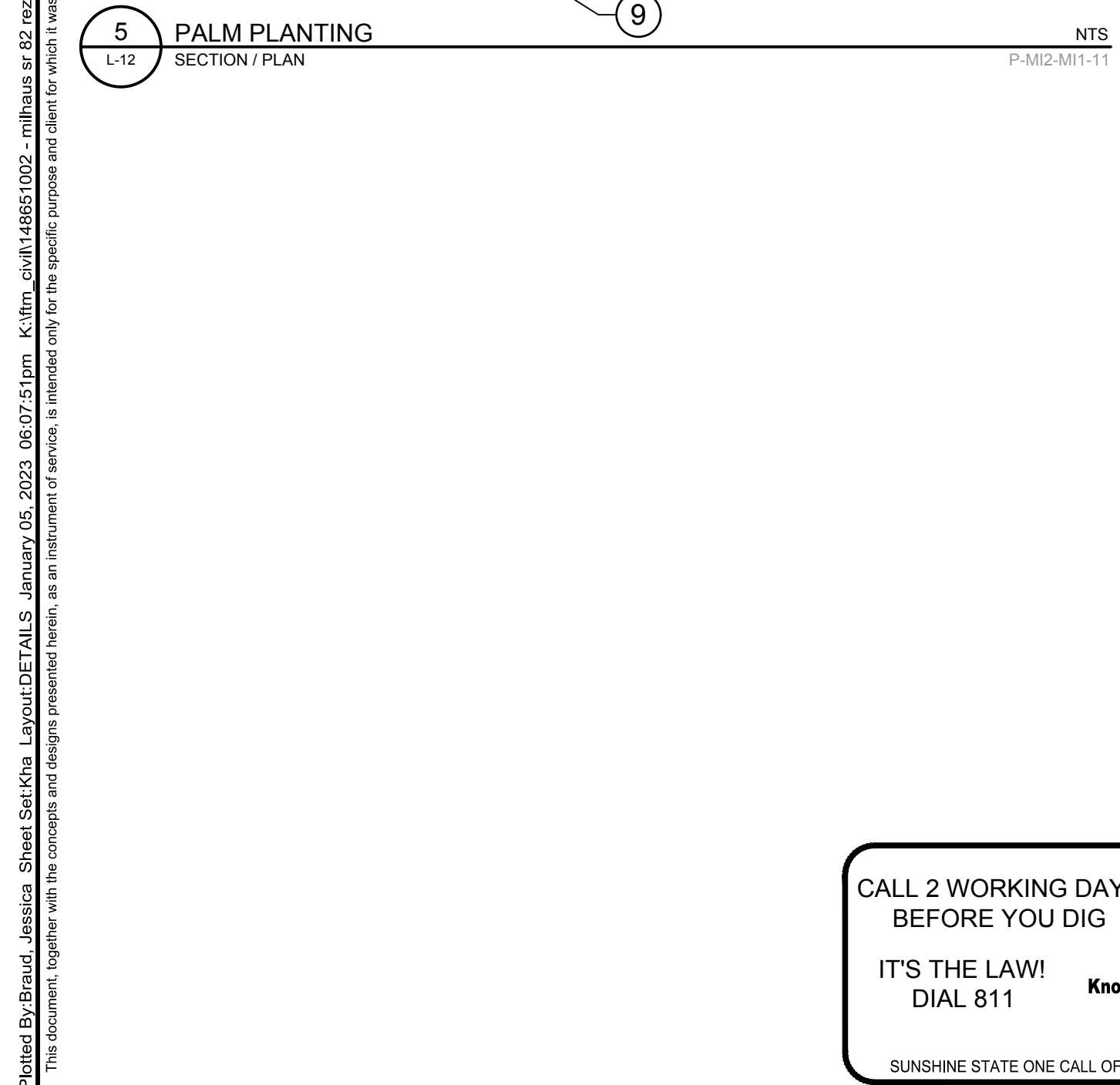
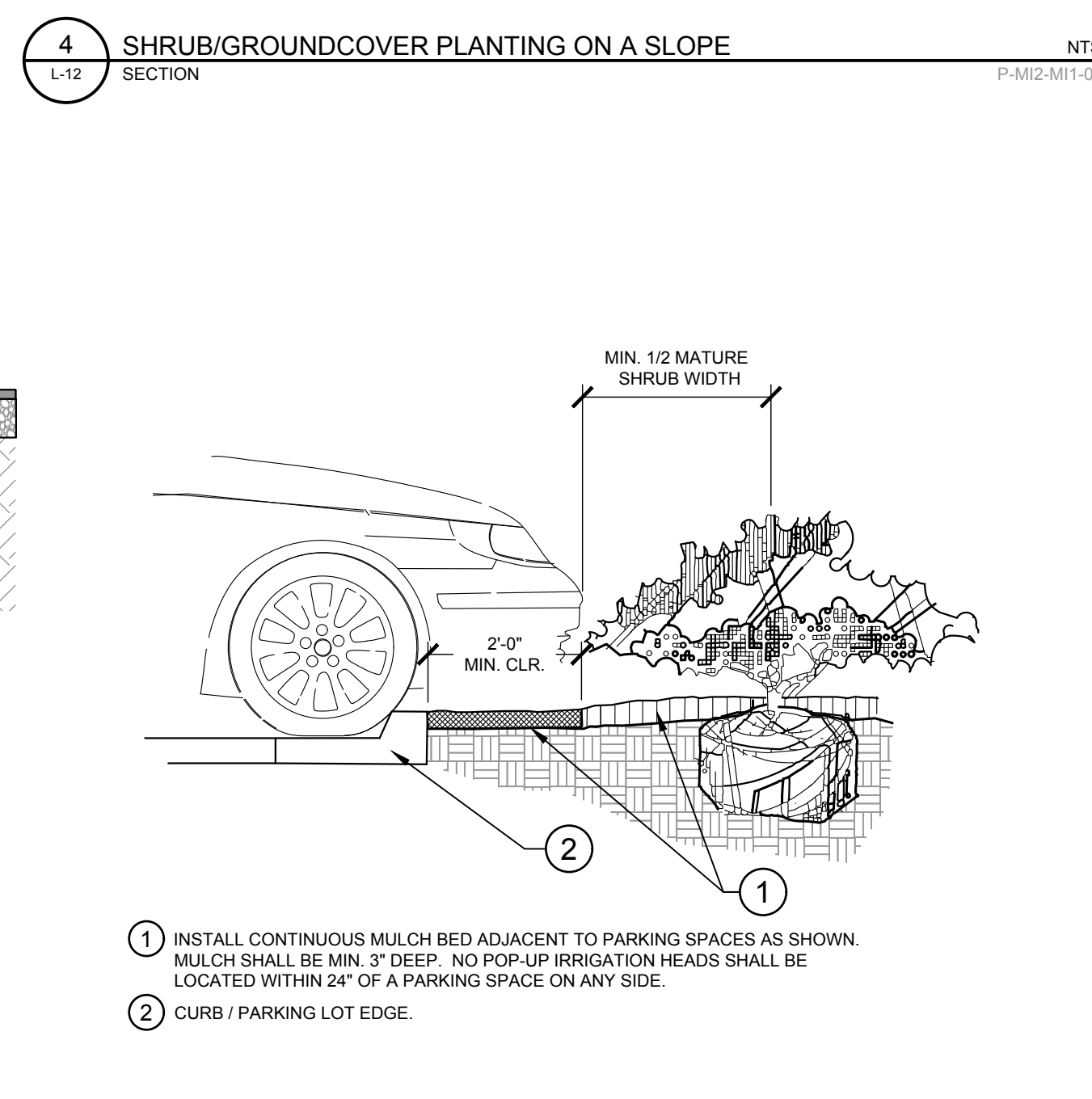
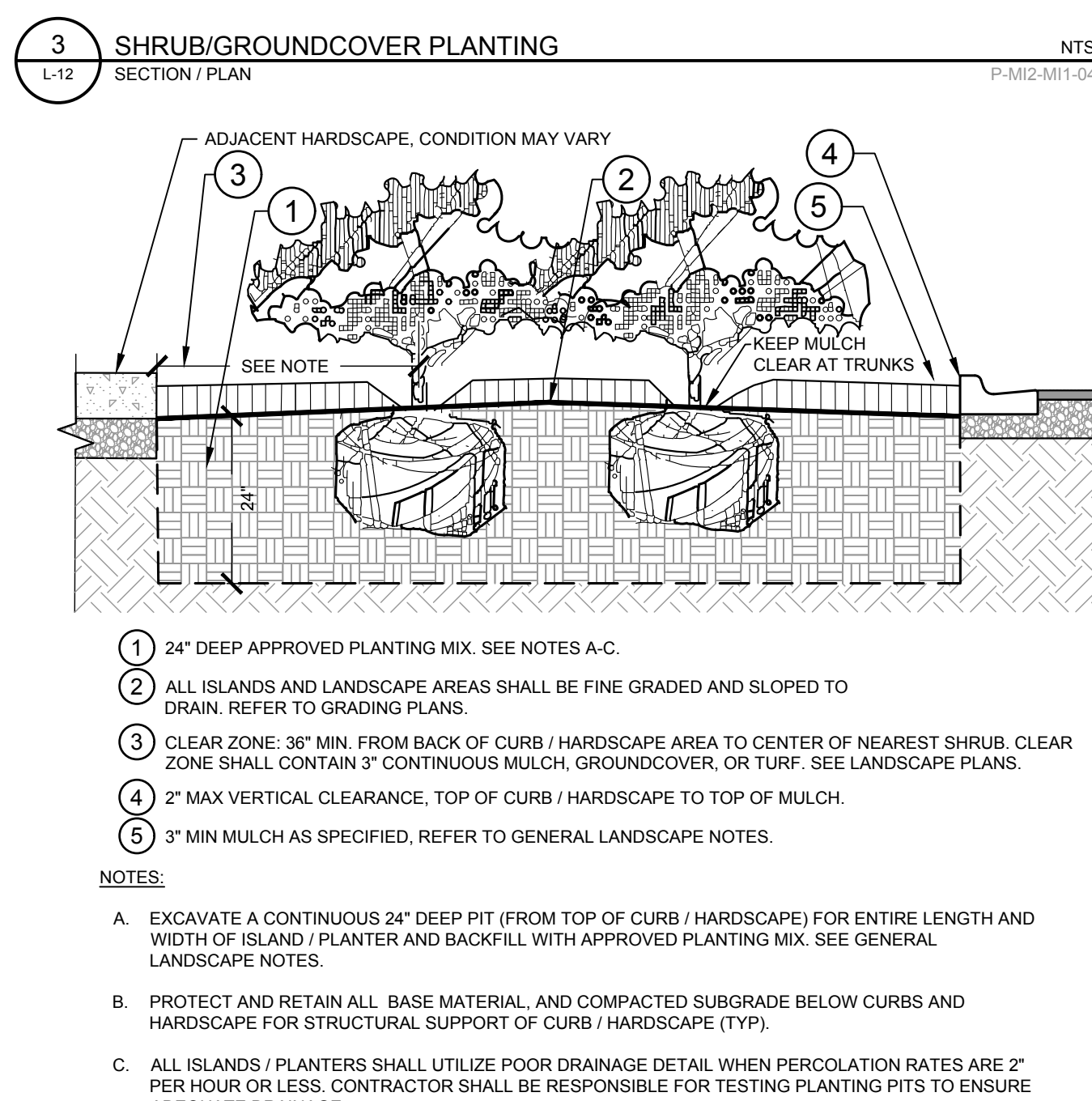
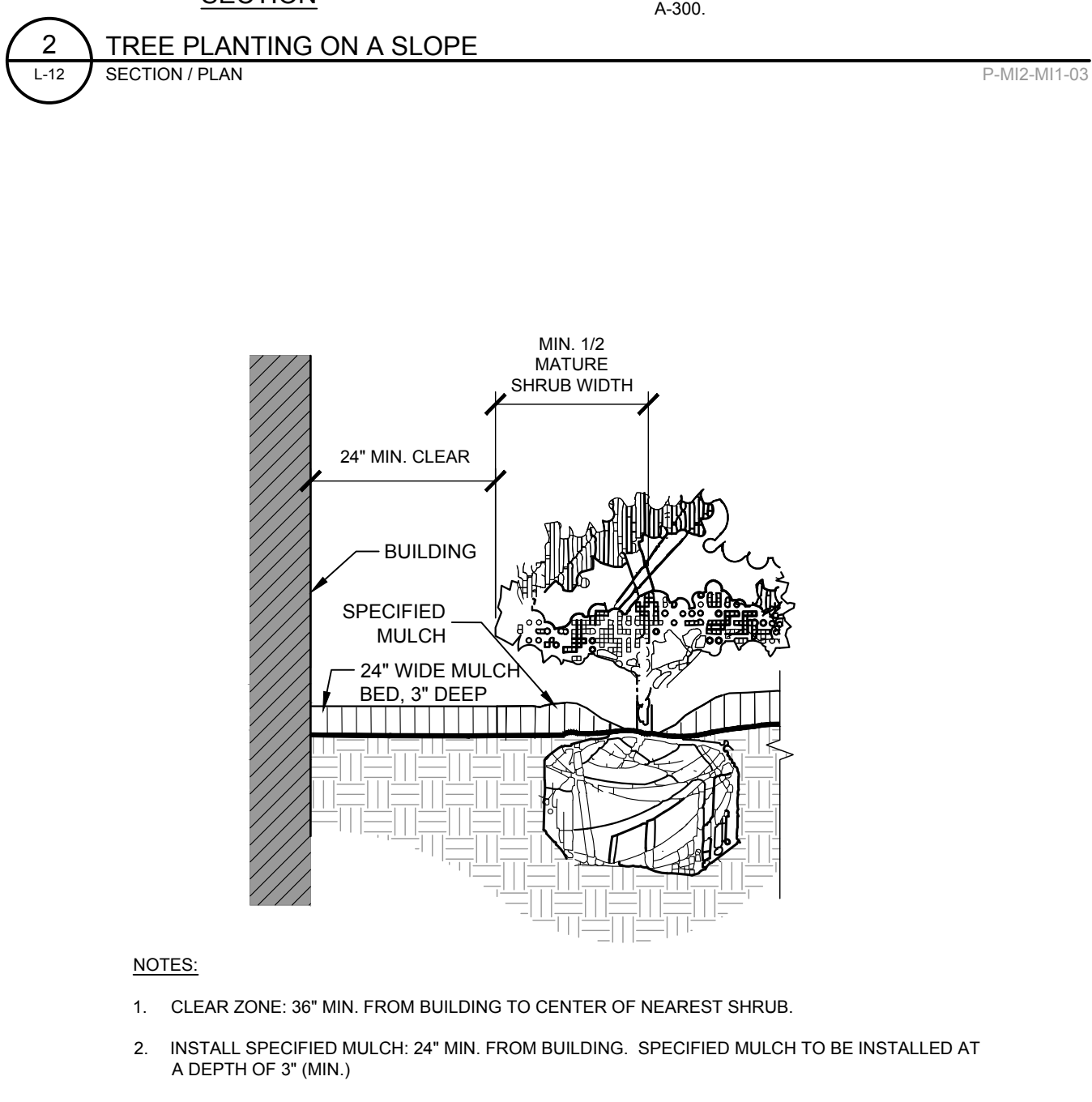
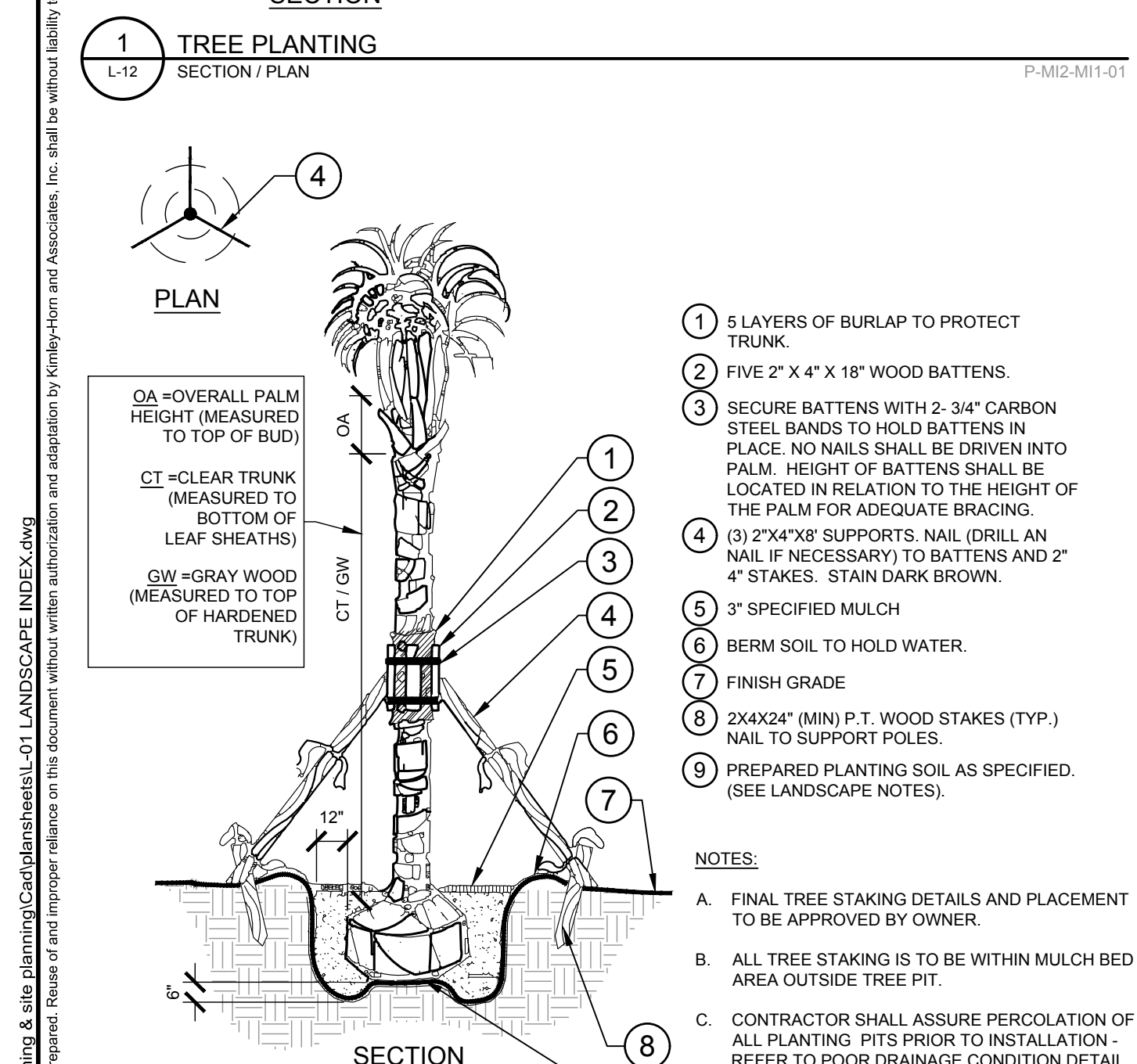
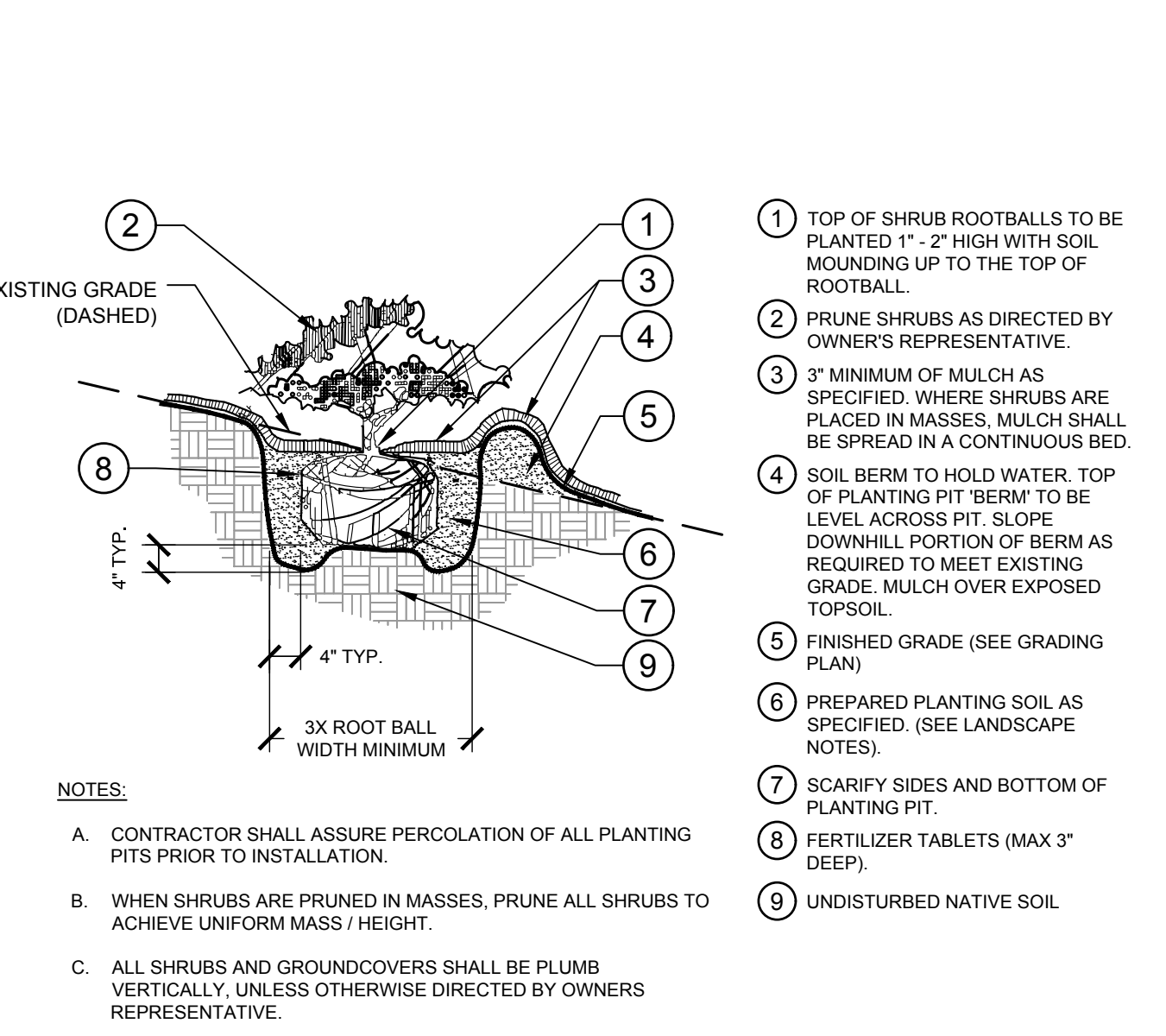
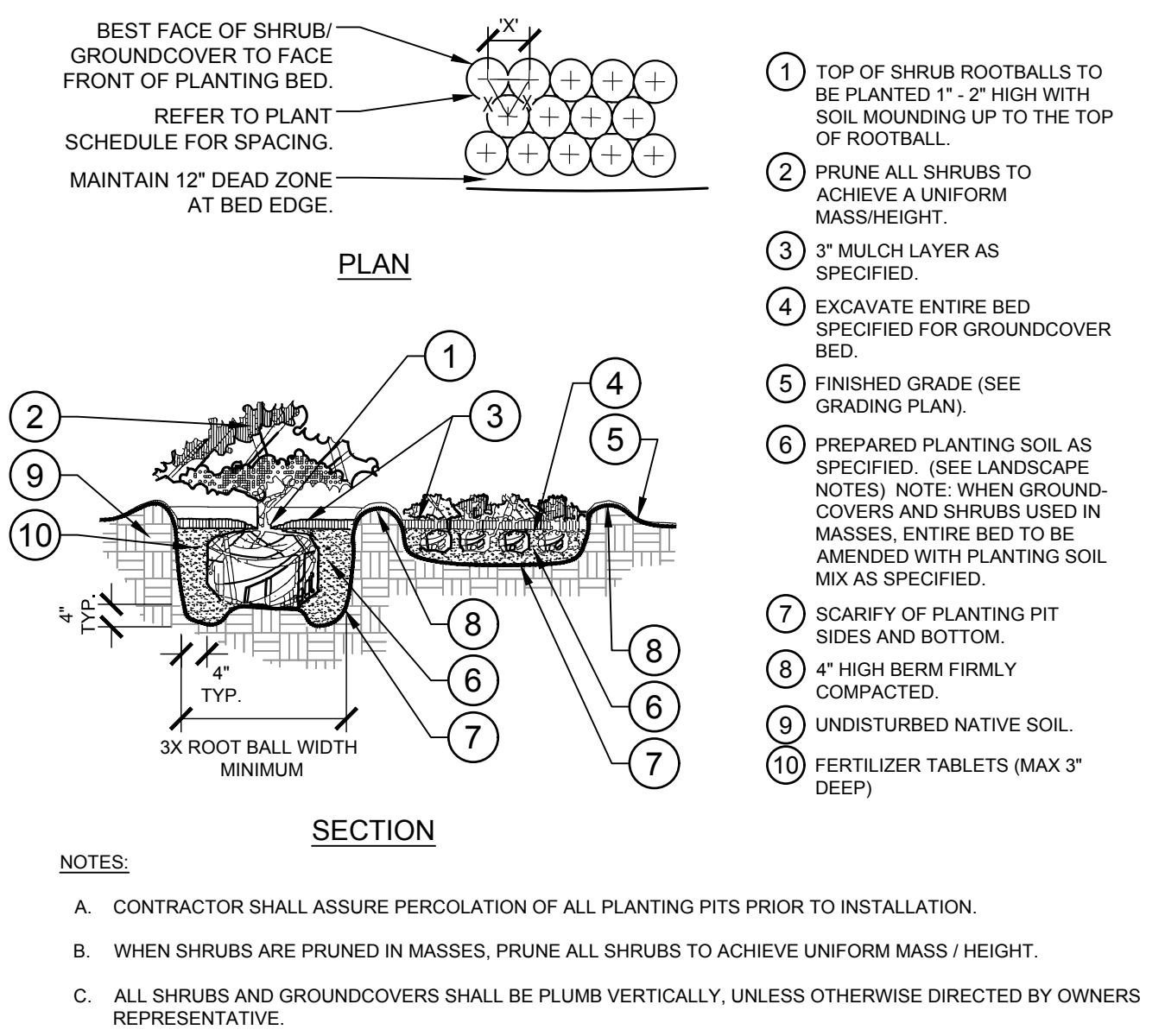
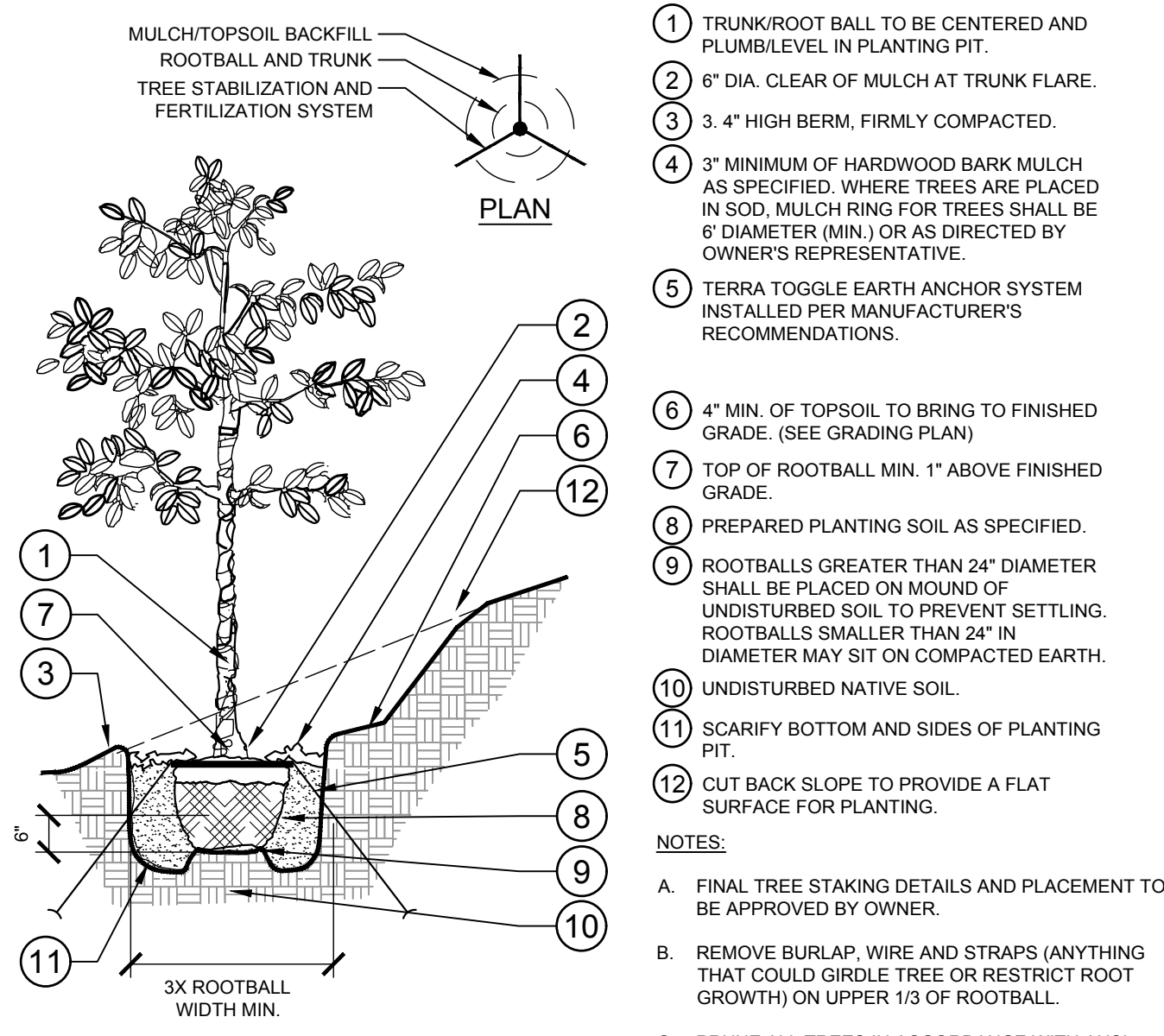
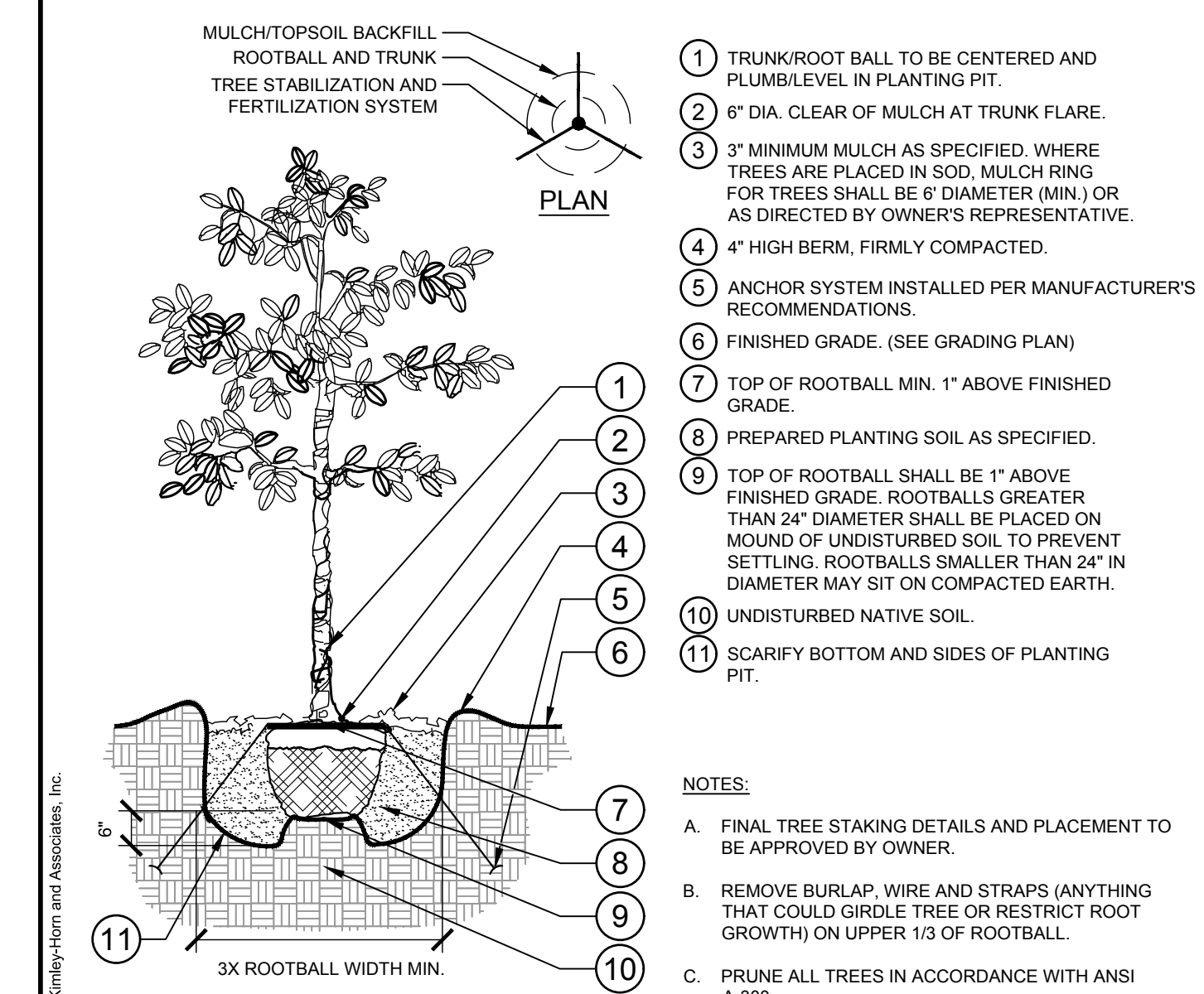
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DATE	JANUARY 2023
SCALE	AS SHOWN
DESIGNED BY	KHA
DRAWN BY	KHA
CHECKED BY	JLD

LANDSCAPE NOTES

HIGHWAY 82 MULTI-FAMILY PREPARED FOR MILHAUS DEVELOPMENT, LLC CITY OF FORT MYERS FLORIDA

SHEET NUMBER **L-11**



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LANDSCAPE DETAILS

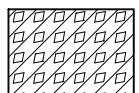

HIGHWAY 82
 MULTI-FAMILY
 PREPARED FOR
 MILHAUS DEVELOPMENT, LLC
 CITY OF FORT MYERS, FLORIDA

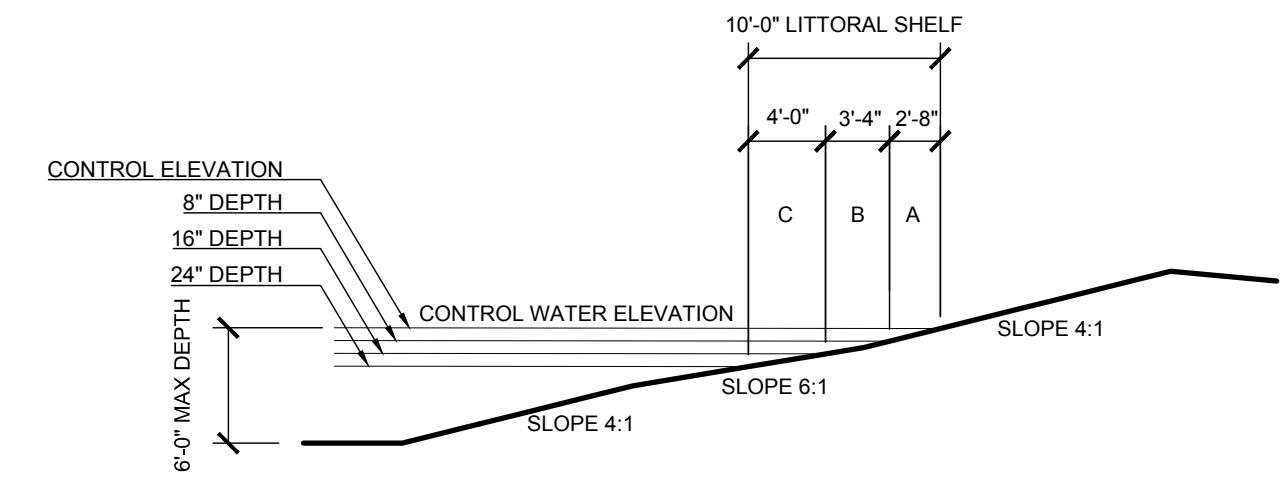
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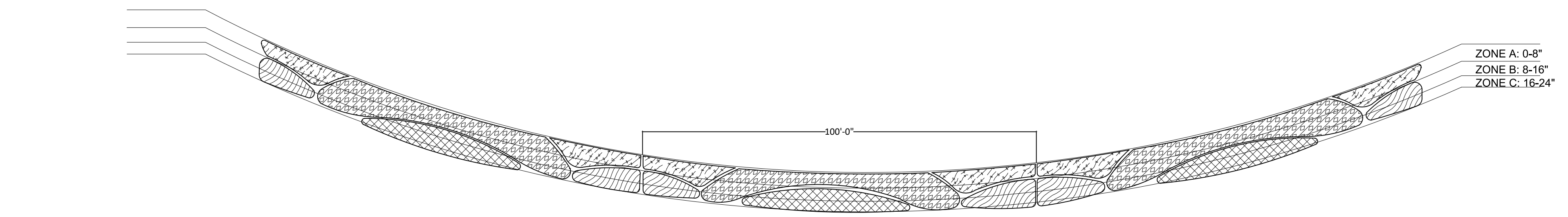
PLANT SCHEDULE LITTORAL PLANTING

LITTORAL PLANTING	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONT	HEIGHT	SPREAD	SPACING	NATIVE
	PC	49	NYMPHAEA ODORATA	FRAGRANT WATERLILY	2 IN	LINER	---	12 IN MIN	18 IN OC	YES
	PC	156	PONTERERIA CORDATA	PICKEREL WEED	2 IN	LINER	12 IN MIN	12 IN MIN	18 IN OC	YES
	SB	84	SPARTINA BAKERI	SAND CORDGRASS	2 IN	LINER	24 IN MIN	12 IN MIN	18 IN OC	YES
	TG	28	THALIA GENICULATA	FIRE FLAG	4 IN	POT	8 IN MIN	6 IN MIN	18 IN OC	YES



1 LITTORAL PLANTING SECTION
1" = 10'

P-MI2-MI1-87



2 100 FOOT TYPICAL LITTORAL SECTION
1" = 20'

P-MI2-MI1-84

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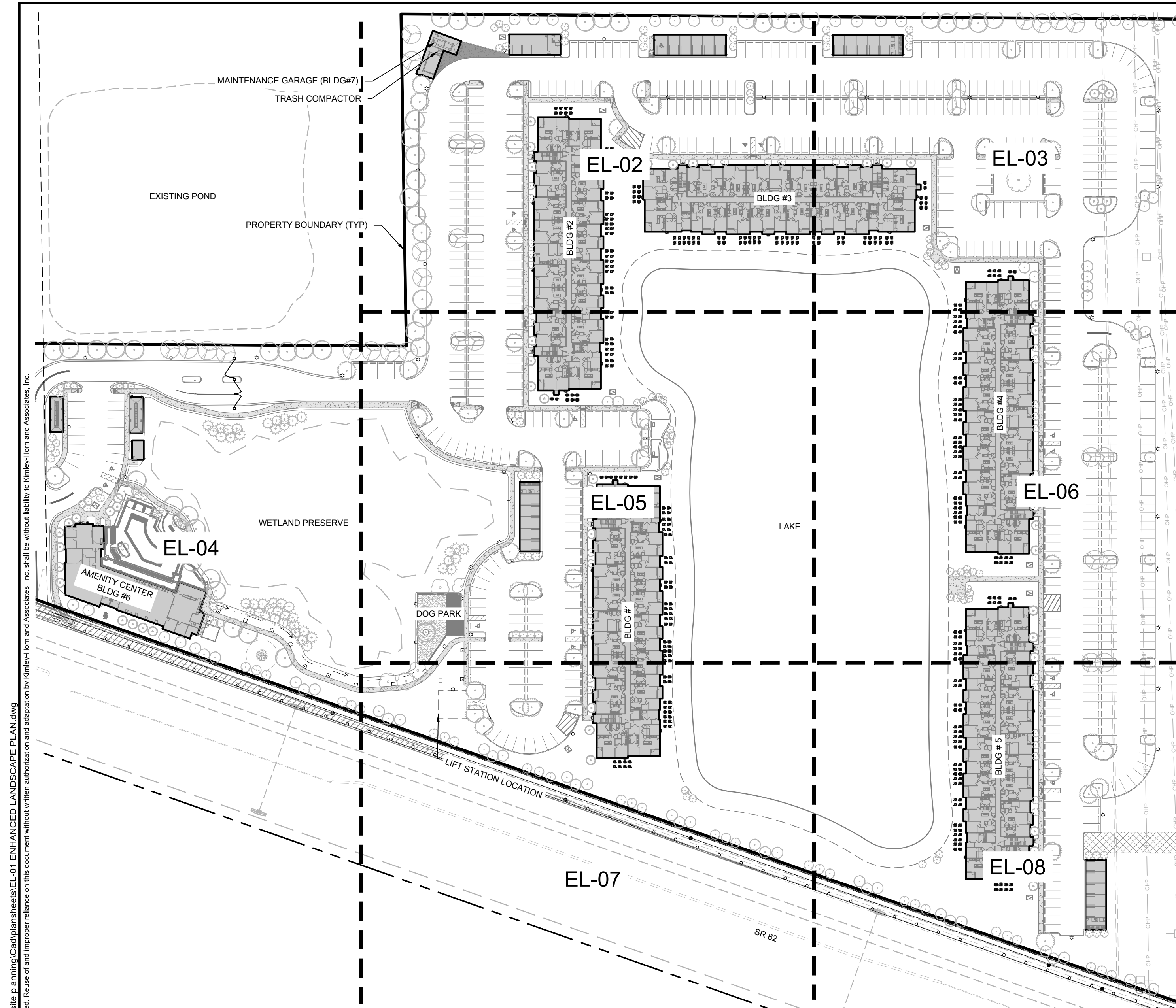
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LICENSED PROFESSIONAL
JENNIFER L. DAQUILAS P.L.A.
 FLORIDA LICENSE NUMBER
6667369

LANDSCAPE DETAILS

HIGHWAY 82 MULTI-FAMILY
 PREPARED FOR
MILHAUS DEVELOPMENT, LLC
 CITY OF FORT MYERS, FLORIDA

SHEET NUMBER
L-13



PLANT SCHEDULE

SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONT	HEIGHT	SPREAD	SPACING	NATIVE
	AW	16	ACALYPHA WILKESIANA	WILKES' COPPERLEAF	3 GAL	POT	24 IN MIN	18 IN MIN	36 IN OC	NO
	AV	7	ALPINIA ZERUBET 'VARIEGATA'	VARIEGATED SHELL GINGER	7 GAL	POT	24 IN MIN	24 IN MIN	48 IN OC	NO
	CS2	12	CONOCARPUS ERECTUS 'SERICEUS' FULL, LOW BRANCHED	SILVER BUTTONWOOD	7 GAL	POT	36 IN MIN	24 IN MIN	48 IN OC	YES
	CQ	12	CRINUM AUGUSTUM 'QUEEN EMMA'	QUEEN EMMA CRINUM LILY	7 GAL	POT	30 IN MIN	30 IN MIN	36 IN OC	NO
	HC	33	HAMELIA PATENS 'COMPACTA'	DWARF FIREBUSH	3 GAL	POT	18 IN MIN	18 IN MIN	36 IN OC	NO
	IS	243	ILEX VOMITORIA 'SCHILLINGS'	SCHILLINGS YAUPON HOLLY	3 GAL	POT	18 IN MIN	18 IN MIN	24 IN OC	YES
	IA2	51	IXORA COCCINEA 'MAUI RED'	MAUI RED IXORA	3 GAL	POT	12 IN MIN	12 IN MIN	30 IN OC	NO
	MC	152	MYRICA CERIFERA	WAX MYRTLE	7 GAL	POT	36 IN MIN	24 IN MIN	48 IN OC	YES
	NP	29	NERIUM OLEANDER 'PETITE PINK'	PETITE PINK OLEANDER	3 GAL	POT	18 IN MIN	18 IN MIN	30 IN OC	NO
	PX2	10	PHILODENDRON 'XANADU'	XANADU TREE PHILODENDRON	3 GAL	POT	12 IN MIN	12 IN MIN	24 IN OC	NO
	PA2	76	PLUMBAGO AURICULATA	BLUE PLUMBAGO	3 GAL	POT	12 IN MIN	18 IN MIN	36 IN OC	NO
	PM	288	PODOCARPUS MACROPHYLLUS 'MAKI'	MAKI SHRUBBY YEW PODOCARPUS	7 GAL	POT	48 IN MIN	18 IN MIN	24 IN OC	NO
	RP	30	RUPELLIA BRITTONIANA 'PURPLE SHOWERS'	PURPLE SHOWERS MEXICAN PETUNIA	3 GAL	POT	24 IN MIN	12 IN MIN	36 IN OC	NO
	SR	4	STRELITZIA REGINAE	BIRD OF PARADISE	15 GAL	POT	48 IN MIN	24 IN MIN	36 IN OC	NO
	VA	218	VIBURNUM AWABUKI	EVERGREEN SWEET VIBURNUM	3 GAL	POT	24 IN MIN	24 IN MIN	36 IN OC	NO
SHRUB AREAS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONT	HEIGHT	SPREAD	SPACING	NATIVE
	MC2	124	MUHLENBERGIA CAPILLARIS	PINK MUHLY GRASS	1 GAL	POT	18 IN MIN	18 IN MIN	36 IN OC	YES
	NE	4	NEPHROLEPIS EXALTATA	BOSTON FERN	3 GAL	POT	18 IN MIN	18 IN MIN	36 IN OC	YES
	PA4	129	PENNISETUM SETACEUM 'RUBRUM'	PURPLE FOUNTAIN GRASS	1 GAL	POT	12 IN MIN	12 IN MIN	36 IN OC	NO
	TF2	118	TRIPSACUM DACTYLOIDES	FAKAHATCHEE GRASS	1 GAL	POT	12 IN MIN	12 IN MIN	36 IN OC	YES
	TF	46	TRIPSACUM FLORIDANUM	DWARF FAKAHATCHEE GRASS	1 GAL	POT	18 IN MIN	18 IN MIN	36 IN OC	YES
GROUND COVERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONT	HEIGHT	SPREAD	SPACING	NATIVE
	EB	113	EVOLVULUS GLOMERATUS	BLUE DAZE MORNING GLORY	1 GAL	POT	4 IN MIN	4 IN MIN	12 IN OC	NO
	LM	27	LIRIOPE MUSCARI 'VARIEGATA'	VARIEGATED LILYTURF	1 GAL	POT	4 IN MIN	4 IN MIN	18 IN OC	NO

NOTE: REFER TO L-11 AND L-12 FOR LANDSCAPE NOTES AND DETAILS.

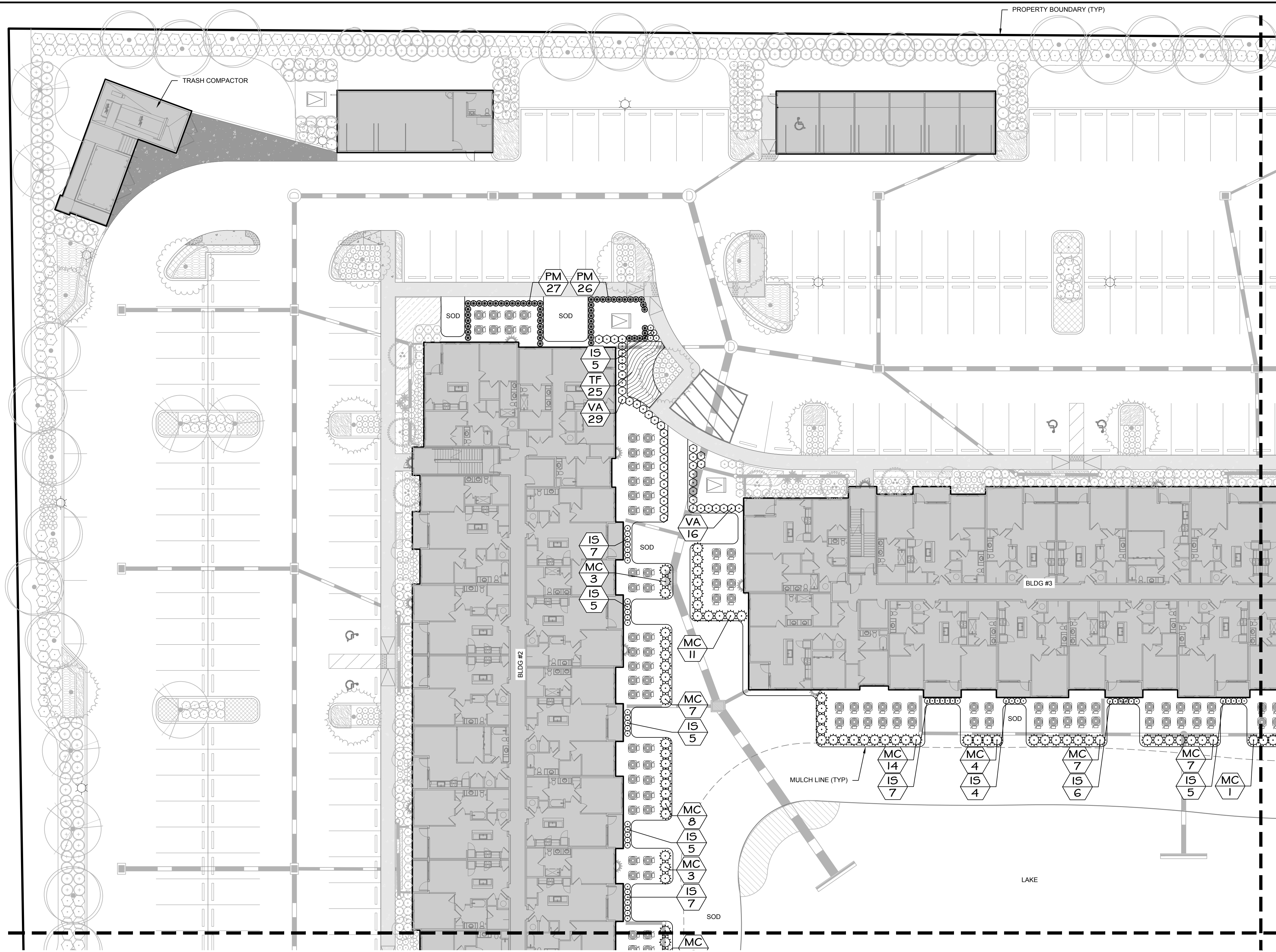
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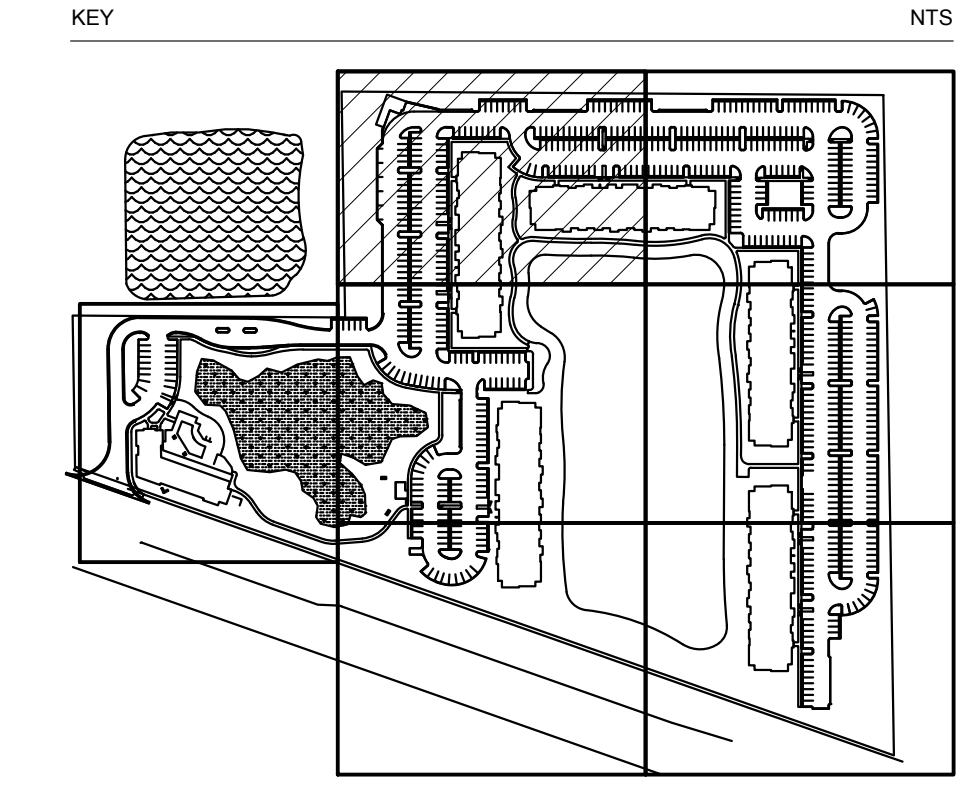


PLANT SYMBOL KEY

SHRUBS	CODE	COMMON NAME
	AW	WILKES' COPPERLEAF
	AV	VARIEGATED SHELL GINGER
	CS2	SILVER BUTTONWOOD FULL, LOW BRANCHED
	CQ	QUEEN EMMA CRINUM LILY
	HC	DWARF FIREBUSH
	IS	SCHILLINGS YAUPON HOLLY
	IA2	MAUI RED IXORA
	MC	WAX MYRTLE
	NP	PETITE PINK OLEANDER
	PX2	XANADU TREE PHILODENDRON
	PA2	BLUE PLUMBAGO
	PM	MAKI SHRUBBY YEW PODOCARPUS
	RP	PURPLE SHOWERS MEXICAN PETUNIA
	SR	BIRD OF PARADISE
	VA	EVERGREEN SWEET VIBURNUM

SHRUB AREAS	CODE	COMMON NAME
	MC2	PINK MUHLY GRASS
	NE	BOSTON FERN
	PA4	PURPLE FOUNTAIN GRASS
	TF2	FAKAHATCHEE GRASS
	TF	DWARF FAKAHATCHEE GRASS

GROUND COVERS	CODE	COMMON NAME
	EB	BLUE DAZE MORNING GLORY
	LM	VARIEGATED LILYTURF



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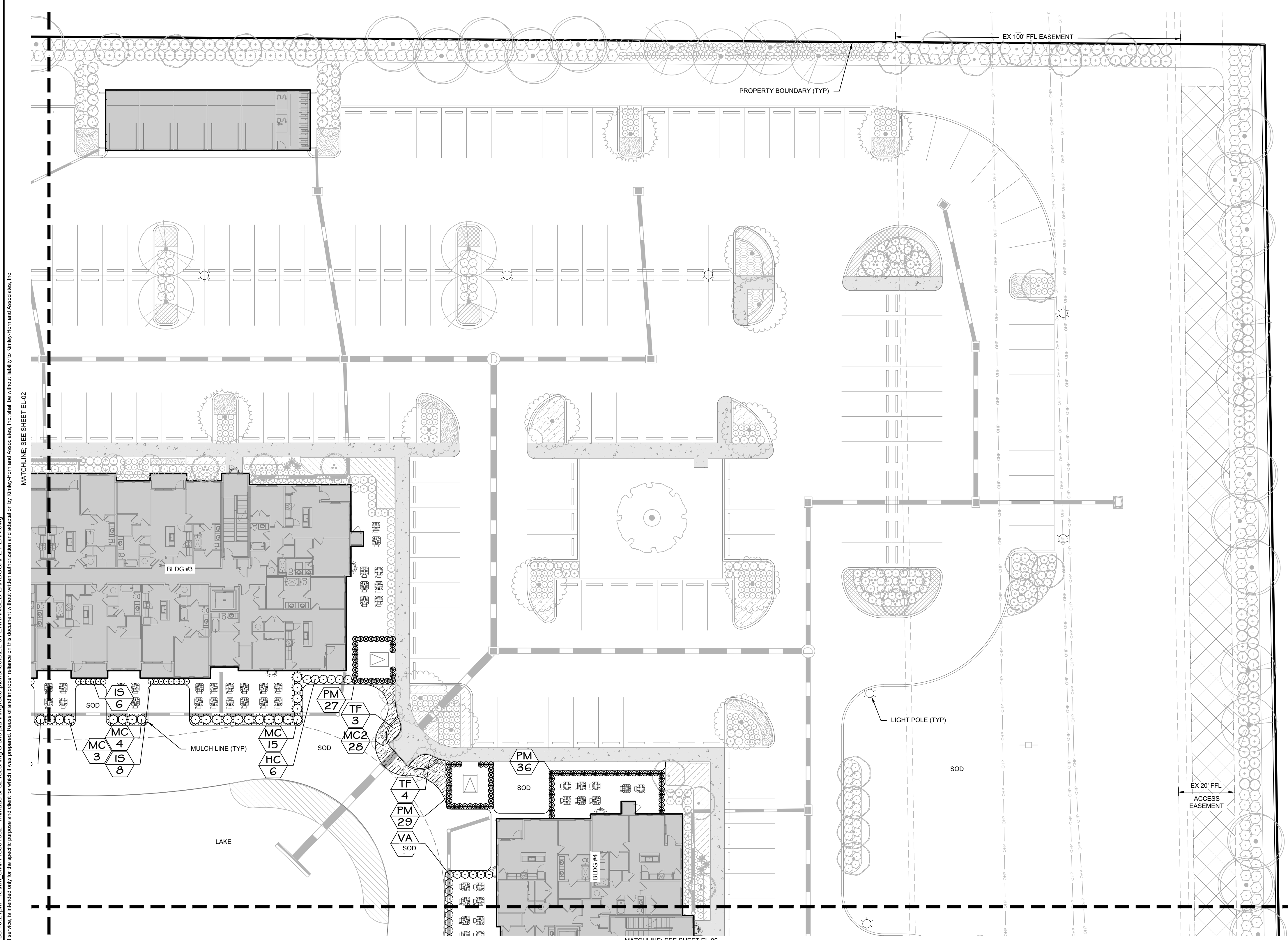
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	ENHANCED LANDSCAPE PLAN	HIGHWAY 82 MULTI-FAMILY PREPARED FOR MILHAUS DEVELOPMENT, LLC CITY OF FORT MYERS FLORIDA	SHEET NUMBER EL-02

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PLANT SYMBOL KEY

SHRUBS	CODE	COMMON NAME
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	AV	VARIEGATED SHELL GINGER
	CS2	SILVER BUTTWOOD FULL, LOW BRANCHED
	CO	QUEEN EMMA CRINUM LILY
	HC	DWARF FIREBUSH
	IS	SCHILLINGS YAUPON HOLLY
	IA2	MAUI RED IXORA
	MC	WAX MYRTLE
	NP	PETITE PINK OLEANDER
	PX2	XANADU TREE PHILODENDRON
	PA2	BLUE PLUMBAGO
	PM	MAKI SHRUBBY YEW PODOCARPUS
	RP	PURPLE SHOWERS MEXICAN PETUNIA
	SR	BIRD OF PARADISE
	VA	EVERGREEN SWEET VIBURNUM

SHRUB AREAS	CODE	COMMON NAME
	MC2	PINK MUHLY GRASS
	NE	BOSTON FERN
	PA4	PURPLE FOUNTAIN GRASS
	TF2	FAKAHATCHEE GRASS
	TF	DWARF FAKAHATCHEE GRASS

GROUND COVERS	CODE	COMMON NAME
	EB	BLUE DAZE MORNING GLORY
	LM	VARIEGATED LILYTURF

No.	REVISIONS	DATE	BY

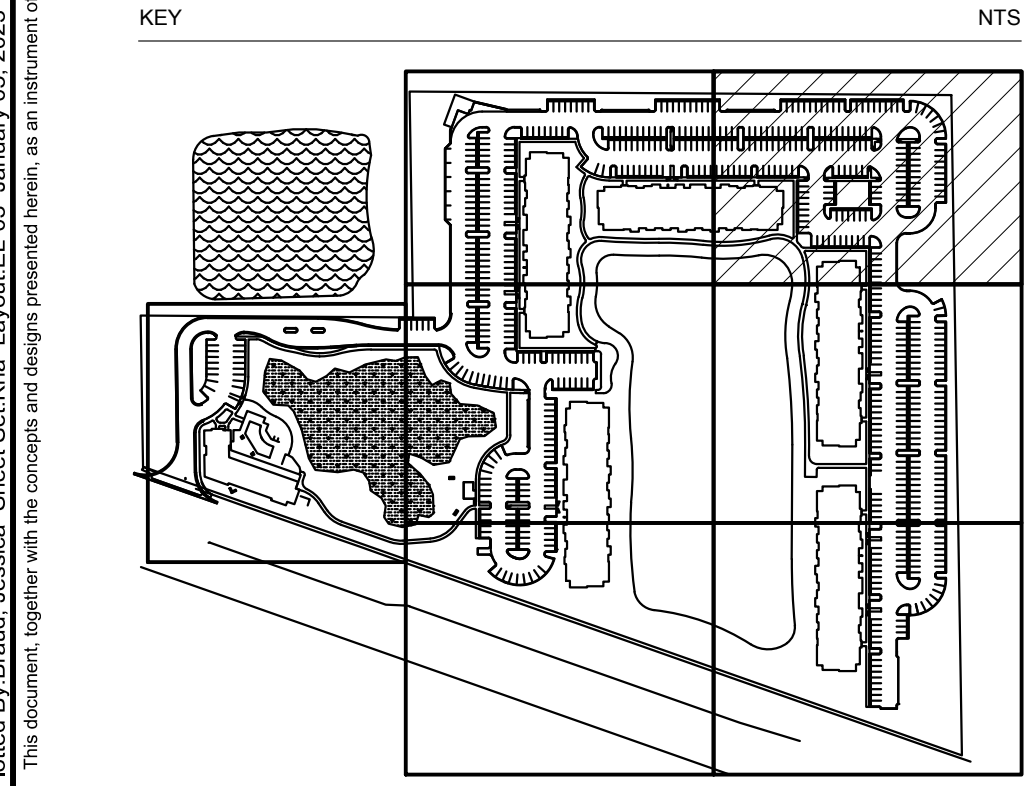
Kimley-Horn
 200 CENTRAL AVENUE, SUITE 600
 ST. PETERSBURG, FL 33701
 PHONE: 727-581-8899
 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT 148651002	LICENSED PROFESSIONAL JENNIFER L. DAQUAS P.L.A. FLORIDA LICENSE NUMBER 6667369
DATE JANUARY 2023	CHECKED BY KHA
SCALE AS SHOWN	DESIGNED BY KHA
DRAWN BY KHA	J.I.D. DATE

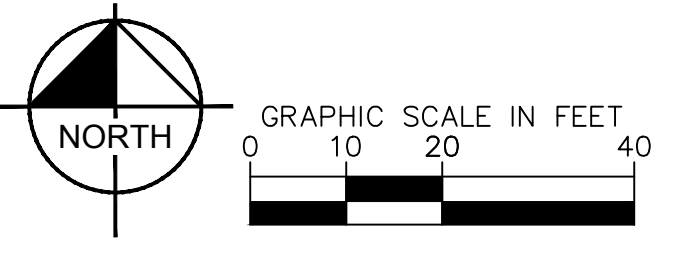
ENHANCED LANDSCAPE PLAN

HIGHWAY 82
 MULTI-FAMILY
 PREPARED FOR
 MILHAUS DEVELOPMENT,
 LLC
 CITY OF FORT MYERS, FLORIDA

SHEET NUMBER
EL-03

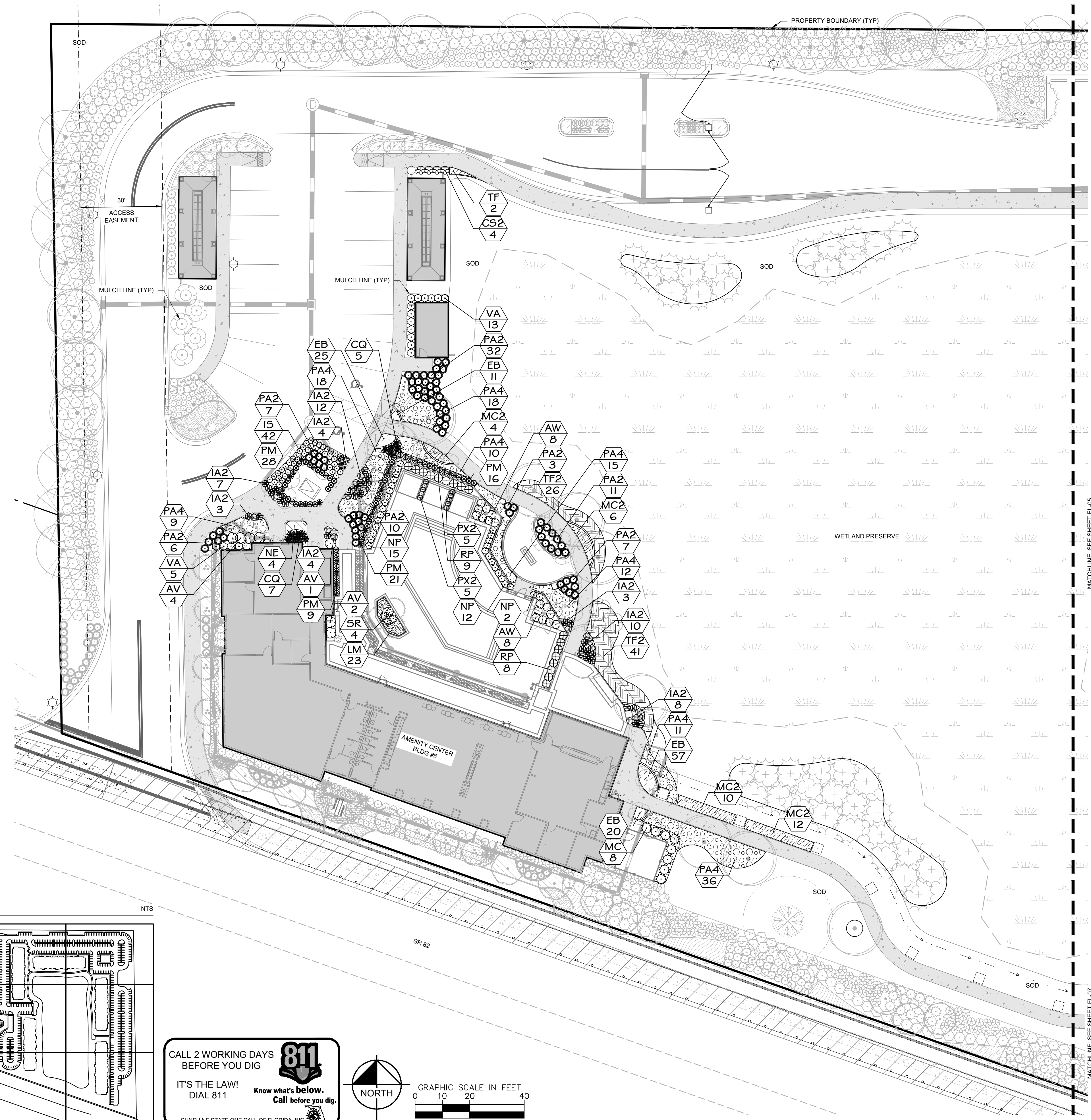


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Plotted By: Brenda, Jessica, Sheet Set: KHA - Layout_EL-04 January 05, 2023 08:10:59pm. K:\km_ch\149651002 - m\haus 2 - 62_reozing & site_planning\Cardinal\haushaus2\EL-04 ENHANCED LANDSCAPE PLAN.rvt
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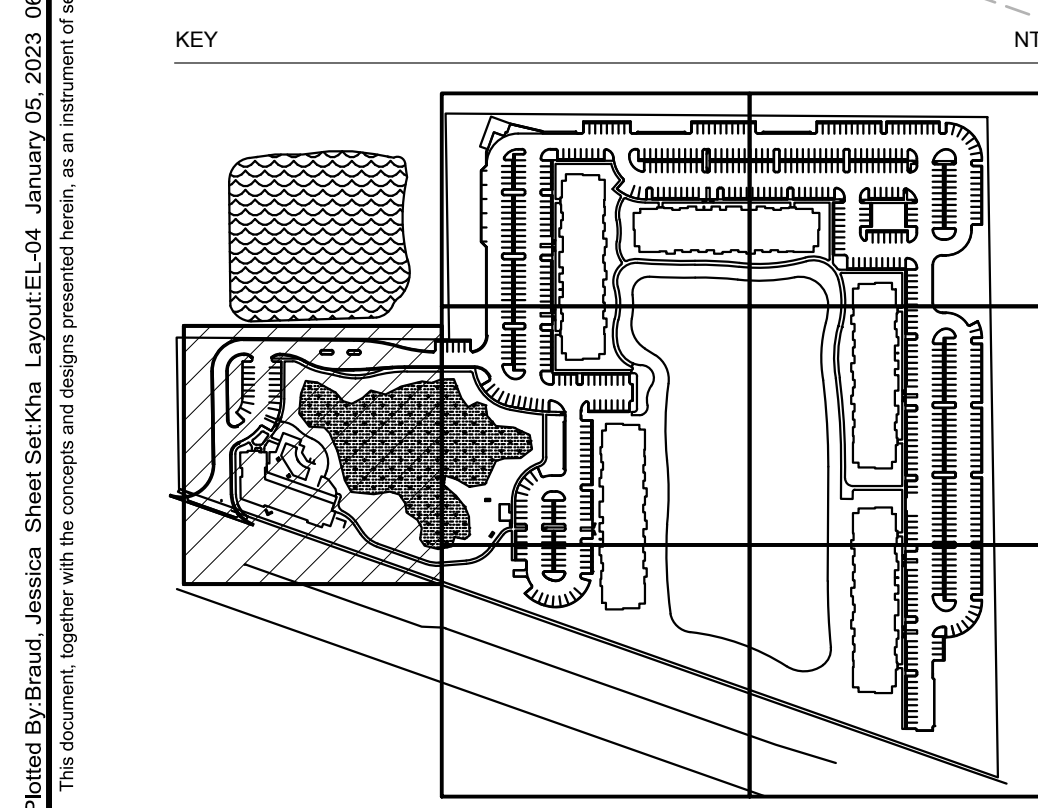


PLANT SYMBOL KEY

SHRUBS	CODE	COMMON NAME
	AW	WILKES' COPPERLEAF
	AV	VARIEGATED SHELL GINGER
	CS2	SILVER BUTTWOOD FULL, LOW BRANCHED
	CQ	QUEEN EMMA CRINUM LILY
	HC	DWARF FIREBUSH
	IS	SCHILLINGS YAUPON HOLLY
	IA2	MAUI RED IXORA
	MC	WAX MYRTLE
	NP	PETITE PINK OLEANDER
	PX2	XANADU TREE PHILODENDRON
	PA2	BLUE PLUMBAGO
	PM	MAKI SHRUBBY YEW PODOCARPUS
	RP	PURPLE SHOWERS MEXICAN PETUNIA
	SR	BIRD OF PARADISE
	VA	EVERGREEN SWEET VIBURNUM

SHRUB AREAS	CODE	COMMON NAME
	MC2	PINK MUHLY GRASS
	NE	BOSTON FERN
	PA4	PURPLE FOUNTAIN GRASS
	TF2	FAKAHATCHEE GRASS
	TF	DWARF FAKAHATCHEE GRASS

GROUND COVERS	CODE	COMMON NAME
	EB	BLUE DAZE MORNING GLORY
	LM	VARIEGATED LILYTURF



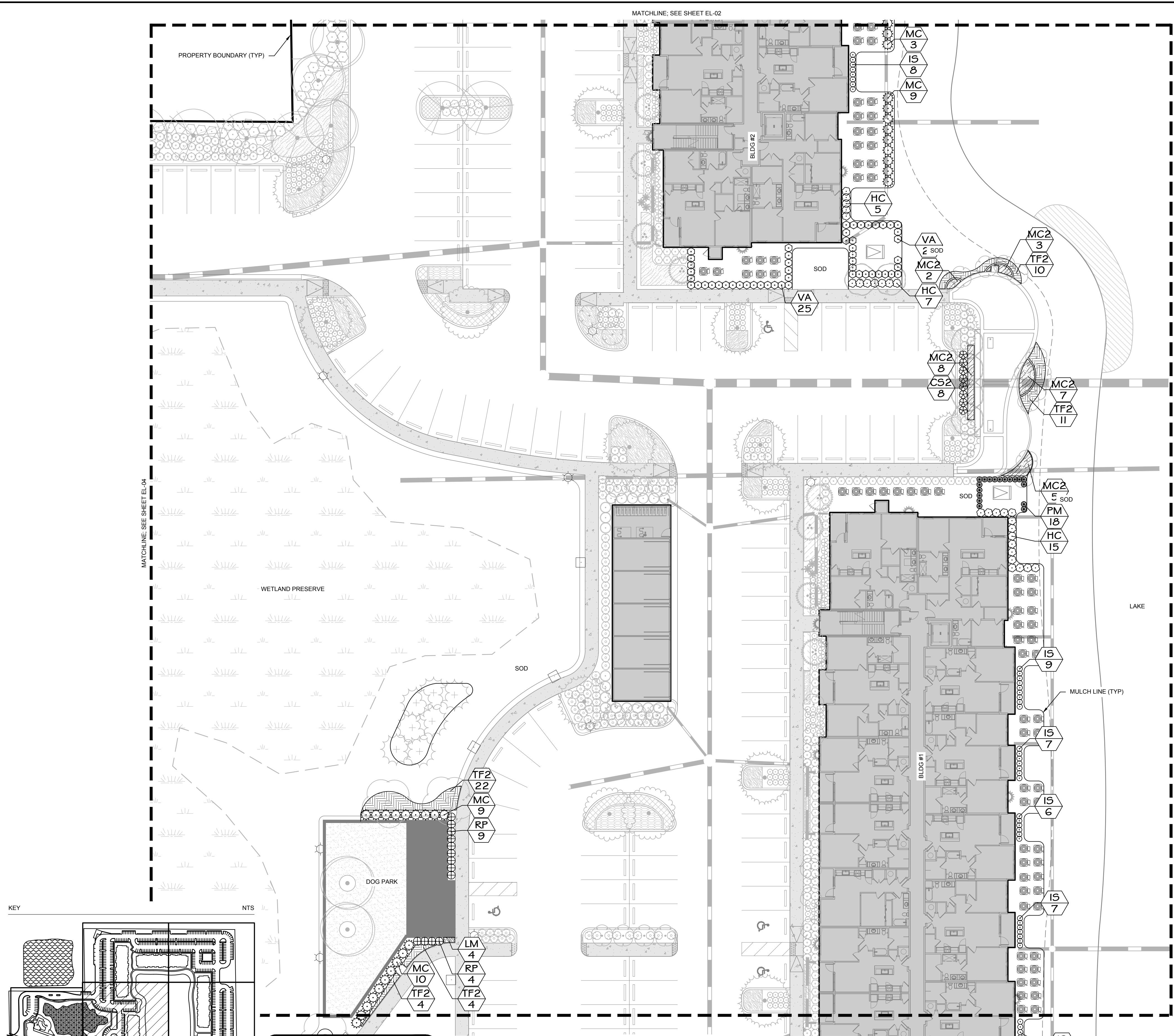
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Kimley & Horn		
200 CENTRAL AVENUE, SUITE 600 ST. PETERSBURG, FL 33701 PHONE: 727-589-4699 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106		
KHA PROJECT 149651002	LICENSED PROFESSIONAL JENNIFER L. DAQUILA, P.L.A. FLORIDA LICENSE NUMBER 6667369	NO. REVISIONS BY DATE
DATE JANUARY 2023	SCALE AS SHOWN	JLD DATE
ENHANCED LANDSCAPE PLAN		
HIGHWAY 82 MULTI-FAMILY PREPARED FOR MILHAUS DEVELOPMENT, LLC CITY OF FORT MYERS, FLORIDA		
SHEET NUMBER EL-04		

GMP SET - NOT FOR CONSTRUCTION

Printed By: Brenda, Jessica Sheet Set: KHA Layout: EL-05 January 05, 2023 08:11:38pm K:\m\ch\148651002 - m\haus 2 - 02 landscaping\Card\enhanced\EL-05 ENHANCED LANDSCAPE PLAN.dwg
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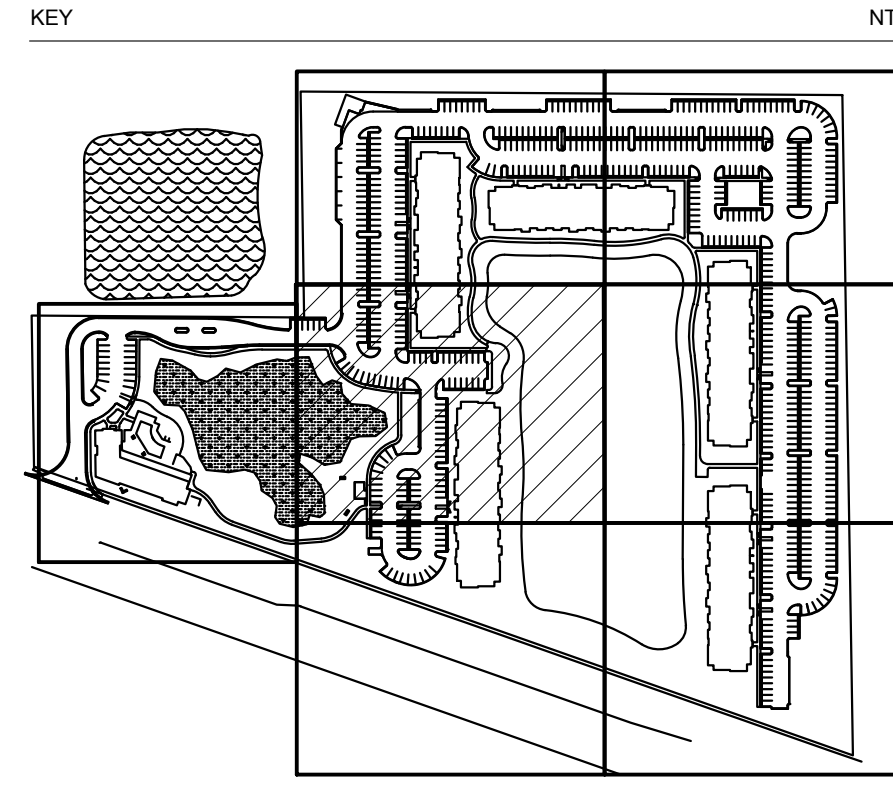


PLANT SYMBOL KEY

SHRUBS	CODE	COMMON NAME
	AW	WILKES' COPPERLEAF
	AV	VARIEGATED SHELL GINGER
	CS2	SILVER BUTTONWOOD FULL, LOW BRANCHED
	CQ	QUEEN EMMA CRINUM LILY
	HC	DWARF FIREBUSH
	IS	SCHILLINGS YAUPON HOLLY
	IA2	MAUI RED IXORA
	MC	WAX MYRTLE
	NP	PETITE PINK OLEANDER
	PX2	XANADU TREE PHILODENDRON
	PA2	BLUE PLUMBAGO
	PM	MAKI SHRUBBY YEW PODOCARPUS
	RP	PURPLE SHOWERS MEXICAN PETUNIA
	SR	BIRD OF PARADISE
	VA	EVERGREEN SWEET VIBURNUM

SHRUB AREAS	CODE	COMMON NAME
	MC2	PINK MUHLY GRASS
	NE	BOSTON FERN
	PA4	PURPLE FOUNTAIN GRASS
	TF2	FAKAHATCHEE GRASS
	TF	DWARF FAKAHATCHEE GRASS

GROUND COVERS	CODE	COMMON NAME
	EB	BLUE DAZE MORNING GLORY
	LM	VARIEGATED LILYTURF



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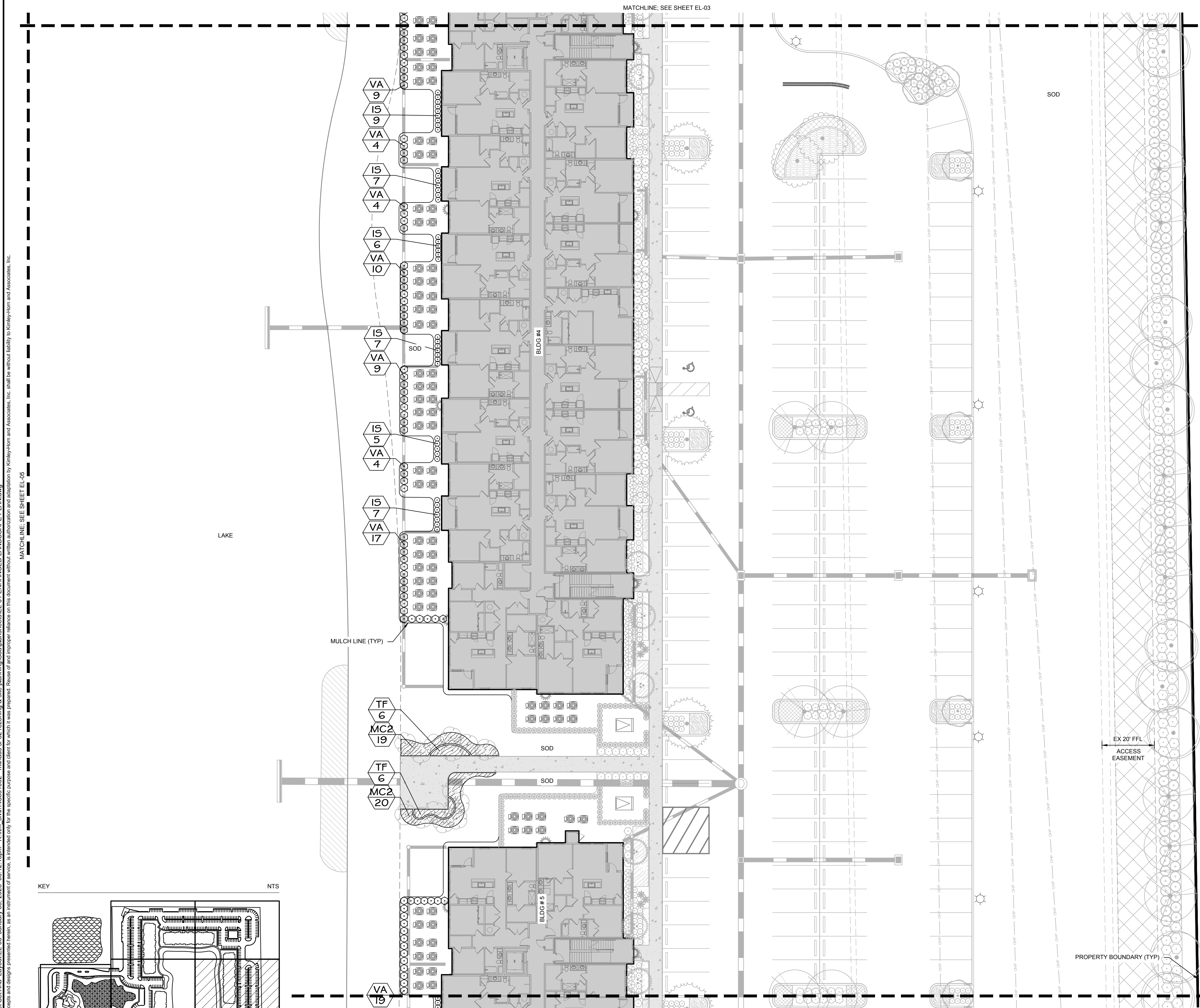
NORTH

GRAPHIC SCALE IN FEET
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 200 CENTRAL AVENUE, SUITE 600 ST. PETERSBURG, FL 33701 PHONE: 727-581-9899 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106	LICENSED PROFESSIONAL JENNIFER L. DAQUILA P.L.A. FLORIDA LICENSE NUMBER 6667369	KHA PROJECT 148651002	DATE JANUARY 2023	SCALE AS SHOWN	DESIGNED BY KHA	DRAWN BY KHA	CHECKED BY JLD	DATE		
		ENHANCED MULTI-FAMILY LANDSCAPE PLAN								
HIGHWAY 82 MULTI-FAMILY PREPARED FOR MILHAUS DEVELOPMENT, LLC CITY OF FORT MYERS, FLORIDA								SHEET NUMBER EL-05		
REVISIONS								No.	DATE	BY

Printed By: Brenda, Jessica, Sheet Set: KHA, Layout: EL-08, January 05, 2023, 08:12:18pm, K:\proj_01\146651002 - m\haus 82 - nts\layout\08 - enhanced landscape plan.dwg, KHA PROJECT 146651002 - m\haus 82 - nts\layout\08 - enhanced landscape plan.dwg
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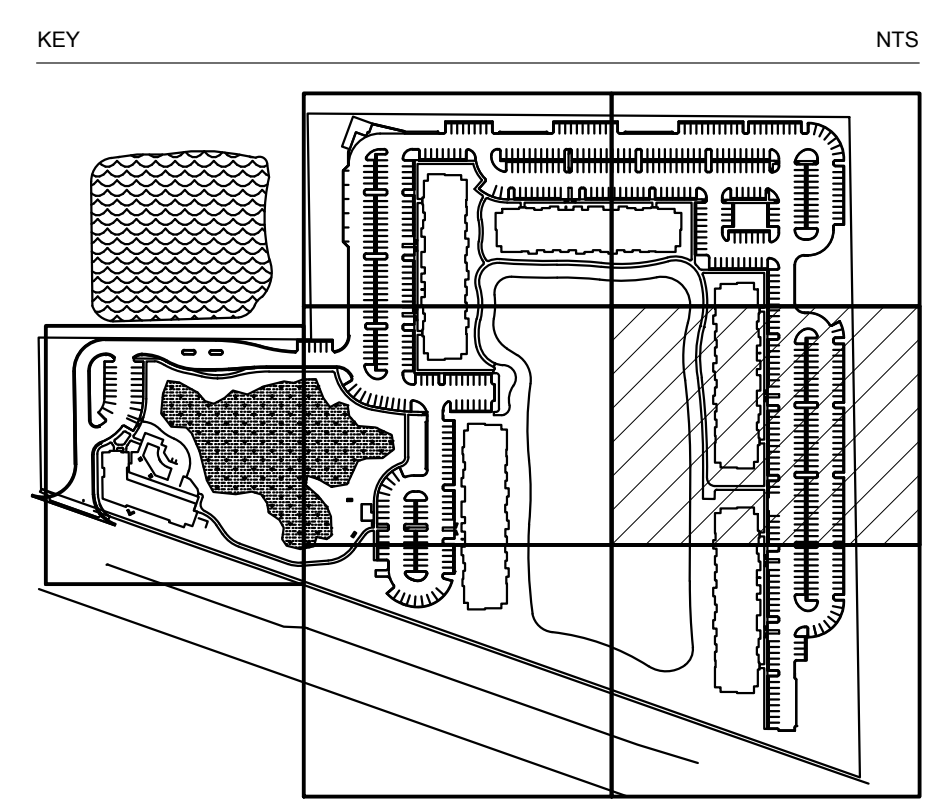


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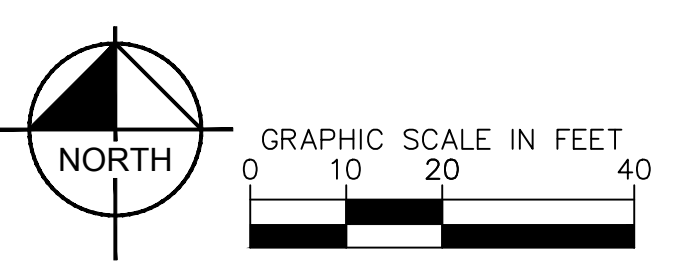
SHRUBS	CODE	COMMON NAME
	AW	WILKES' COPPERLEAF
	AV	VARIEGATED SHELL GINGER
	CS2	SILVER BUTTONWOOD FULL, LOW BRANCHED
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	IS	SCHILLINGS YAUPON HOLLY
	IA2	MAUI RED IXORA
	MC	WAX MYRTLE
	NP	PETITE PINK OLEANDER
	PX2	XANADU TREE PHILODENDRON
	PM	MAKI SHRUBBY YEW PODOCARPUS
	RP	PURPLE SHOWERS MEXICAN PETUNIA
	SR	BIRD OF PARADISE
	VA	EVERGREEN SWEET VIBURNUM

SHRUB AREAS	CODE	COMMON NAME
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	TF	DWARF FAKAHATCHEE GRASS

GROUND COVERS	CODE	COMMON NAME
	EB	BLUE DAZE MORNING GLORY
	LM	VARIEGATED LILYTURF



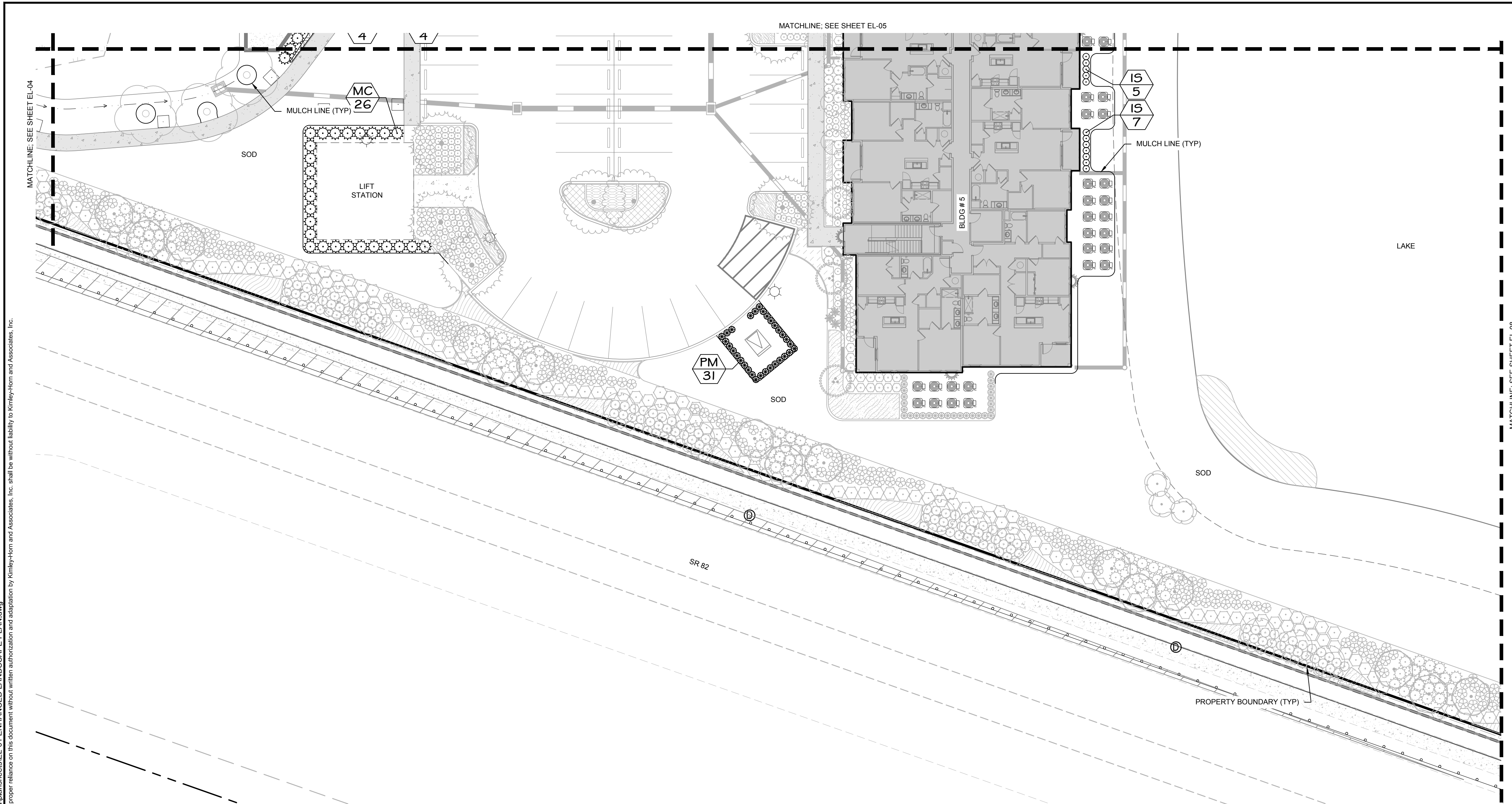
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 200 CENTRAL AVENUE, SUITE 600 ST. PETERSBURG, FL 33701 PHONE: 727-581-1200 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106		REVISIONS	DATE	BY			
KHA PROJECT 146651002	LICENSED PROFESSIONAL JENNIFER L. DAQUAS P.L.A. FLORIDA LICENSE NUMBER 6667369	DATE JANUARY 2023	SCALE AS SHOWN	DESIGNED BY KHA	DRAWN BY KHA	CHECKED BY JLD	DATE
ENHANCED LANDSCAPE PLAN				HIGHWAY 82 MULTI-FAMILY PREPARED FOR MILHAUS DEVELOPMENT, LLC CITY OF FORT MYERS, FLORIDA			
SHEET NUMBER EL-06				GMP SET - NOT FOR CONSTRUCTION			

Printed By: Brenda, Jessica - Sheet Set: KHA - Layout: EL-07 - January 05, 2023 08:12:55pm - K:\mch\148551002 - m\haus sr 82 - rezoning & site plan\mch\148551002 - enhanced landscape plan.dwg
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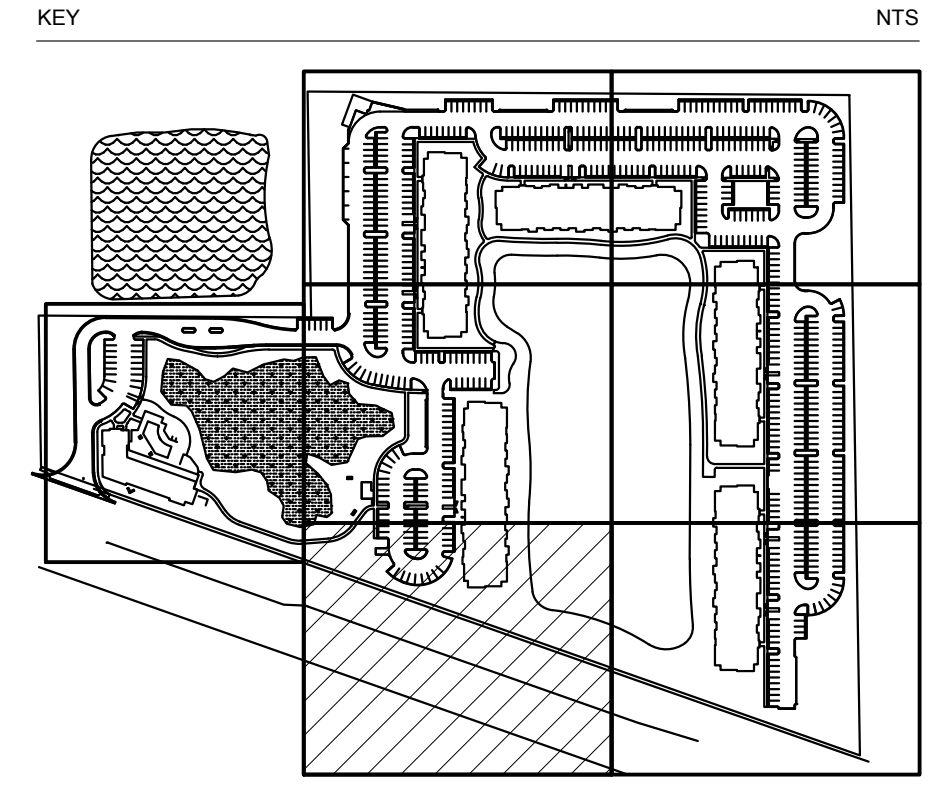


PLANT SYMBOL KEY

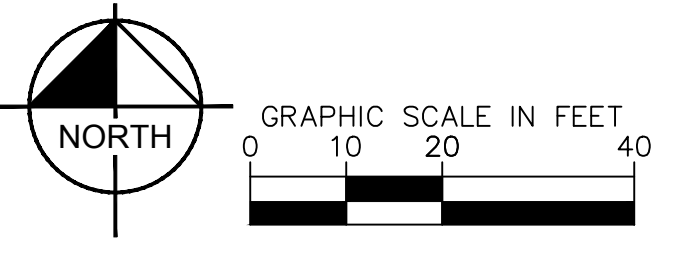
SHRUBS	CODE	COMMON NAME
	AW	WILKES' COPPERLEAF
	AV	VARIEGATED SHELL GINGER
	CS2	SILVER BUTTONWOOD FULL, LOW BRANCHED
	CQ	QUEEN EMMA CRINUM LILY
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	IS	SCHILLINGS YAUPON HOLLY
	IA2	MAUI RED IXORA
	MC	WAX MYRTLE
	NP	PETITE PINK OLEANDER
	PX2	XANADU TREE PHILODENDRON
	PA2	BLUE PLUMBAGO
	PM	MAKI SHRUBBY YEW PODOCARPUS
	RP	PURPLE SHOWERS MEXICAN PETUNIA
	SR	BIRD OF PARADISE
	VA	EVERGREEN SWEET VIBURNUM

SHRUB AREAS	CODE	COMMON NAME
	MC2	PINK MUHLY GRASS
	NE	BOSTON FERN
	PA4	PURPLE FOUNTAIN GRASS
	TF2	FAKAHATCHEE GRASS
	TF	DWARF FAKAHATCHEE GRASS

GROUND COVERS	CODE	COMMON NAME
	EB	BLUE DAZE MORNING GLORY
	LM	VARIEGATED LILYTURF

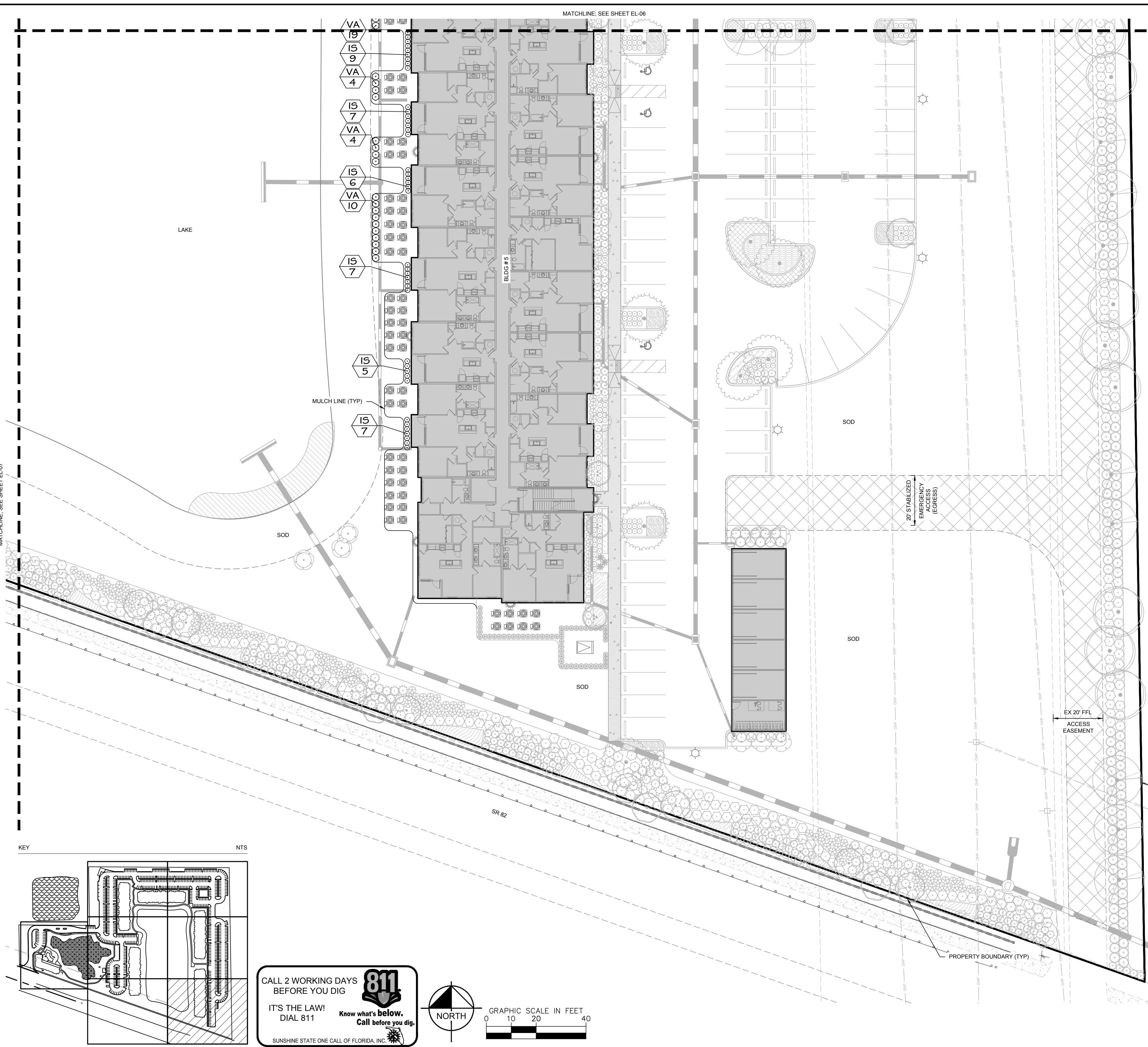


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 200 CENTRAL AVENUE, SUITE 600 ST. PETERSBURG, FL 33701 PHONE: 727-581-9899 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106	LICENSED PROFESSIONAL JENNIFER L. DAQUILA P.L.A. FLORIDA LICENSE NUMBER 6667369	KHA PROJECT 148651002 DATE JANUARY 2023 SCALE AS SHOWN DESIGNED BY KHA DRAWN BY KHA CHECKED BY JLD	REVISIONS No. DATE BY
	ENHANCED LANDSCAPE PLAN		HIGHWAY 82 MULTI-FAMILY PREPARED FOR MILHAUS DEVELOPMENT, LLC CITY OF FORT MYERS, FLORIDA
SHEET NUMBER EL-07		GMP SET - NOT FOR CONSTRUCTION	

Project: By Brand, Jessica. Sheet: Sct/Kha. Layout: EL-08. January 05, 2023. 08:13:22pm. K:\m\ch\148651002 - m\haus 82 - m\haus 82 - reworking & site planning\Card\plants\shrub\EL-08 ENHANCED LANDSCAPE PLAN.dwg
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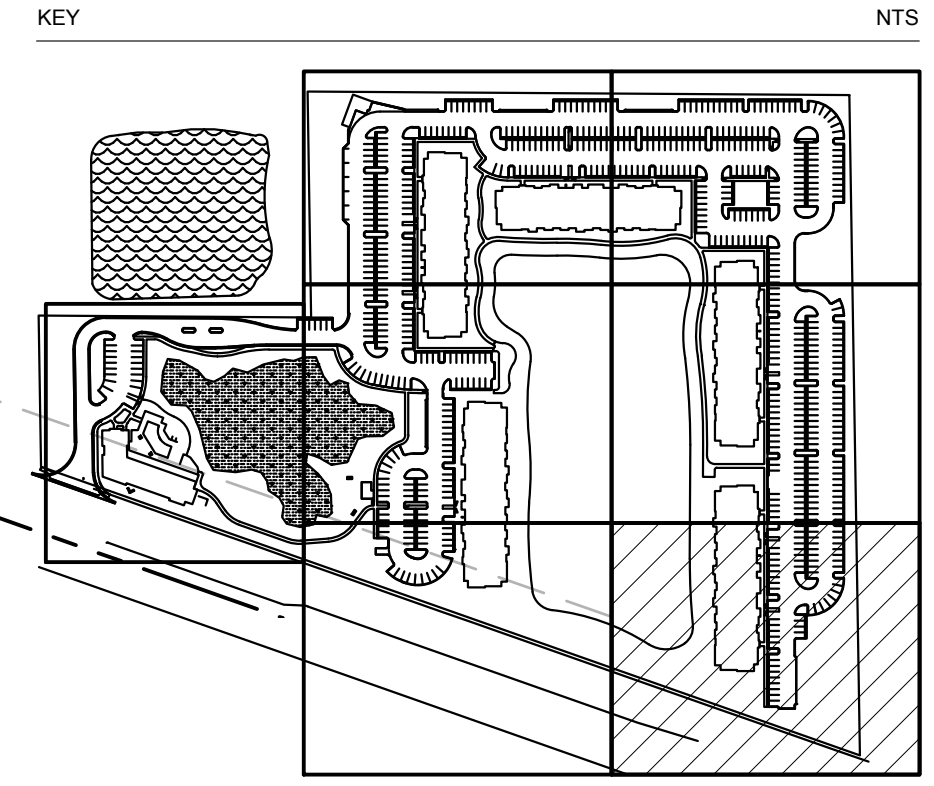


PLANT SYMBOL KEY

SHRUBS	CODE	COMMON NAME
	AW	WILKES' COPPERLEAF
	AV	VARIEGATED SHELL GINGER
	CS2	SILVER BUTTONWOOD FULL, LOW BRANCHED
	CQ	QUEEN EMMA CRINUM LILY
	HC	DWARF FIREBUSH
	IS	SCHILLINGS YAUPON HOLLY
	IA2	MAUI RED IXORA
	MC	WAX MYRTLE
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	PM	MAKI SHRUBBY YEW PODOCARPUS
	RP	PURPLE SHOWERS MEXICAN PETUNIA
	SR	BIRD OF PARADISE
	VA	EVERGREEN SWEET VIBURNUM

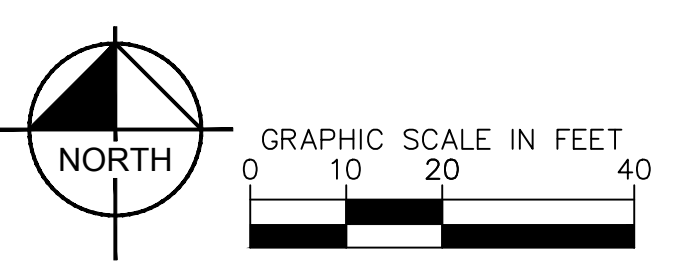
SHRUB AREAS	CODE	COMMON NAME
	MC2	PINK MUHLY GRASS
	NE	BOSTON FERN
	PA4	PURPLE FOUNTAIN GRASS
	TF2	FAKAHATCHEE GRASS
	TF	DWARF FAKAHATCHEE GRASS

GROUND COVERS	CODE	COMMON NAME
	EB	BLUE DAZE MORNING GLORY
	LM	VARIEGATED LILYTURF



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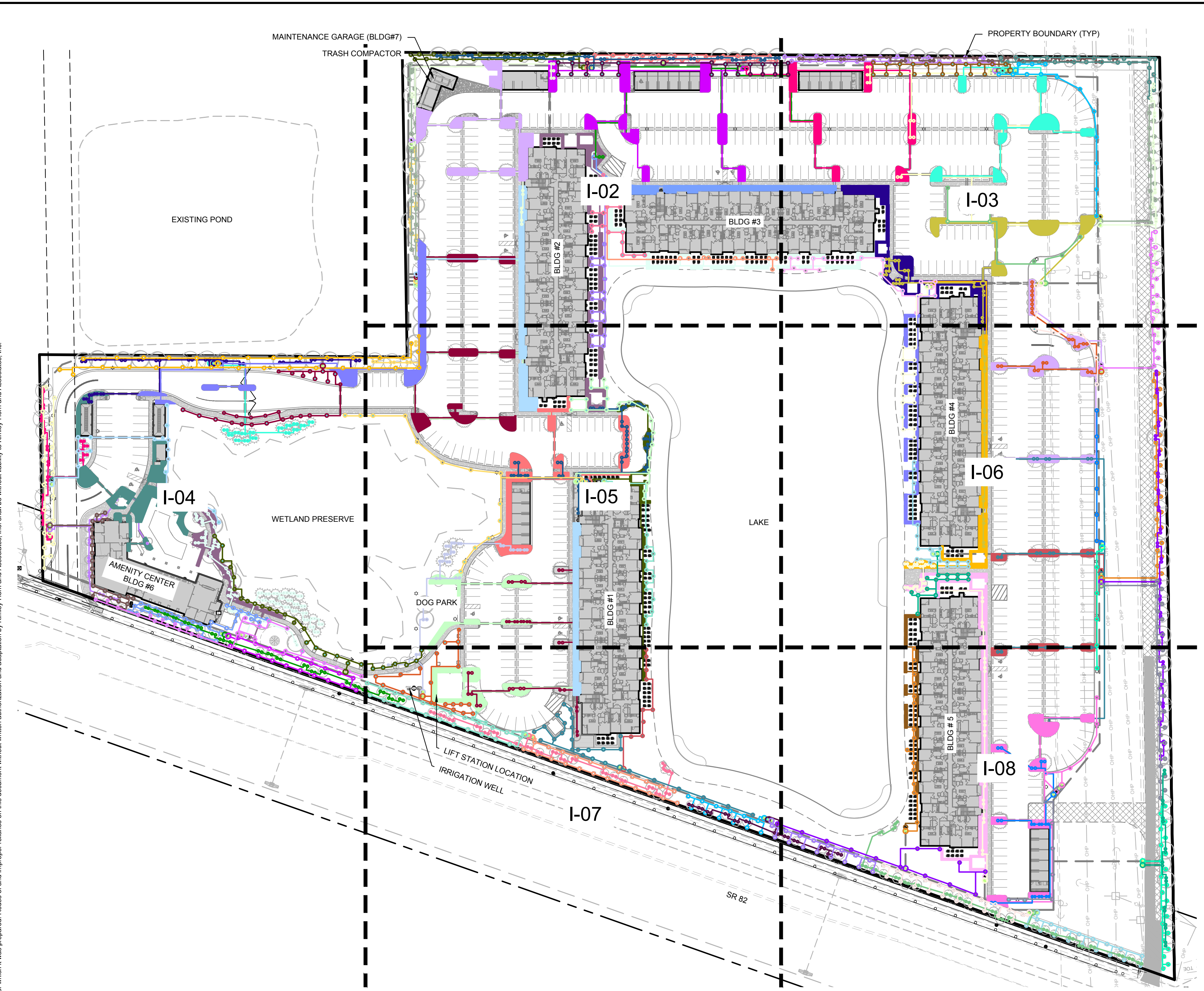
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 200 CENTRAL AVENUE, SUITE 600 ST. PETERSBURG, FL 33701 PHONE: 727-581-9899 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106	LICENSED PROFESSIONAL JENNIFER L. DAQUILA P.L.A. FLORIDA LICENSE NUMBER 6667369	KHA PROJECT 148651002 DATE JANUARY 2023 SCALE AS SHOWN DESIGNED BY KHA DRAWN BY KHA CHECKED BY JLD
ENHANCED LANDSCAPE PLAN		
HIGHWAY 82 MULTI-FAMILY PREPARED FOR MILHAUS DEVELOPMENT, LLC CITY OF FORT MYERS, FLORIDA		
SHEET NUMBER EL-08		

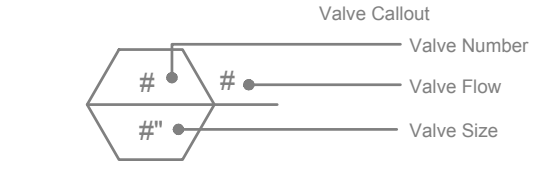
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Printed By: Braud, Jessica Sheet Set: KHA Layout INDEX January 05, 2023 09:32:45pm K:\ha_civil\14985\1002_milhaus sr 82\working & site planning\Civil\plansheets\101 IRRIGATION INDEX.dwg
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IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	HUNTER MP CORNER PROS-04-PRS40-CV TURF ROTATOR, 4IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE. PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE. T=TURQUOISE ADJ ARC 45-105 ON PRS40 BODY.	7
	HUNTER MP STRIP PROS-04-PRS40-CV TURF ROTATOR, 4IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE. PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. LST=IVORY LEFT STRIP, SST=BROWN SIDE STRIP, RST=COPPER RIGHT STRIP.	24
	HUNTER MP1000 PROS-04-PRS40-CV TURF ROTATOR, 4IN. POP-UP WITH CHECK VALVE. PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC.	175
	HUNTER MP2000 PROS-04-PRS40-CV TURF ROTATOR, 4IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE. PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. K=BLACK ADJ ARC 90-210, G=GREEN ADJ ARC 210-270, R=RED 360 ARC.	142
	HUNTER MP3000 PROS-04-PRS40-CV TURF ROTATOR, 4IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE. PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. B=BLUE ADJ ARC 90-210, Y=YELLOW ADJ ARC 210-270, A=GRAY 360 ARC.	79
	HUNTER MP CORNER PROS-06-PRS40-CV SHRUB ROTATOR, 6" POP-UP WITH FACTORY INSTALLED CHECK VALVE. PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE. T=TURQUOISE ADJ ARC 45-105 ON PRS40 BODY.	11
	HUNTER MP STRIP PROS-06-PRS40-CV SHRUB ROTATOR, 6" POP-UP WITH FACTORY INSTALLED CHECK VALVE. PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE. LST=IVORY LEFT STRIP, SST=BROWN SIDE STRIP, RST=COPPER RIGHT STRIP ON PRS40 BODY.	1
	HUNTER MP1000 PROS-06-PRS40-CV SHRUB ROTATOR, 6" POP-UP WITH CHECK VALVE. PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE. M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC ON PRS40 BODY.	295
	HUNTER MP2000 PROS-06-PRS40-CV SHRUB ROTATOR, 6" POP-UP WITH FACTORY INSTALLED CHECK VALVE. PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE. K=BLACK ADJ ARC 90-210, G=GREEN ADJ ARC 210-270, R=RED 360 ARC ON PRS40 BODY.	176
	HUNTER PCB 10 FLOOD BUBBLER, 1/2" FIPT.	1,122
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	HUNTER ICZ-201-XL-40 DRIP CONTROL ZONE KIT. 2IN. ICV GLOBE VALVE. PRESSURE REGULATION: 40PSI. FLOW RANGE: 20GPM TO 100GPM. 150 MESH STAINLESS STEEL SCREEN. 2IN. INLET X SINGLE 2IN. OUTLET	25
	AREA TO RECEIVE DRIPLINE HUNTER HDL-09-18 HDL-09-18-R: HUNTER DRIPLINE WITH 0.9 GPH FLOW. LIGHT BROWN TUBING. EMITTERS AT 18" O.C. DRIPLINE LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. INSTALL WITH HUNTER PLD BARBED OR PLD-LOC FITTINGS.	31,247 L.F.
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	HUNTER ICV-G 1IN., 1-1/2IN., 2IN., AND 3IN. PLASTIC ELECTRIC REMOTE CONTROL VALVES, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE.	78
	HUNTER IBV 2" 1IN., 1-1/2IN., 2IN., AND 3IN. BRASS ELECTRIC MASTER VALVE, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE.	1
	HUNTER A2C-75D-SS 75-STATION DECODER CONTROLLER IN A STAINLESS STEEL WALL MOUNT ENCLOSURE.	1
	HUNTER RAIN-CLIK RAIN SENSOR, WITH CONDUIT INSTALLATION, MOUNT AS NOTED. NORMALLY CLOSED SWITCH.	1
	HUNTER HFS-200 FLOW SENSOR FOR USE WITH ACC CONTROLLER, 2" SCHEDULE 40 SENSOR BODY, 24 VAC, 2 AMP.	1
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40	39,134 L.F.
	IRRIGATION MAINLINE: PVC SCHEDULE 40	5,479 L.F.
	PIPE SLEEVE: PVC CLASS 200 SDR 21	2,542 L.F.



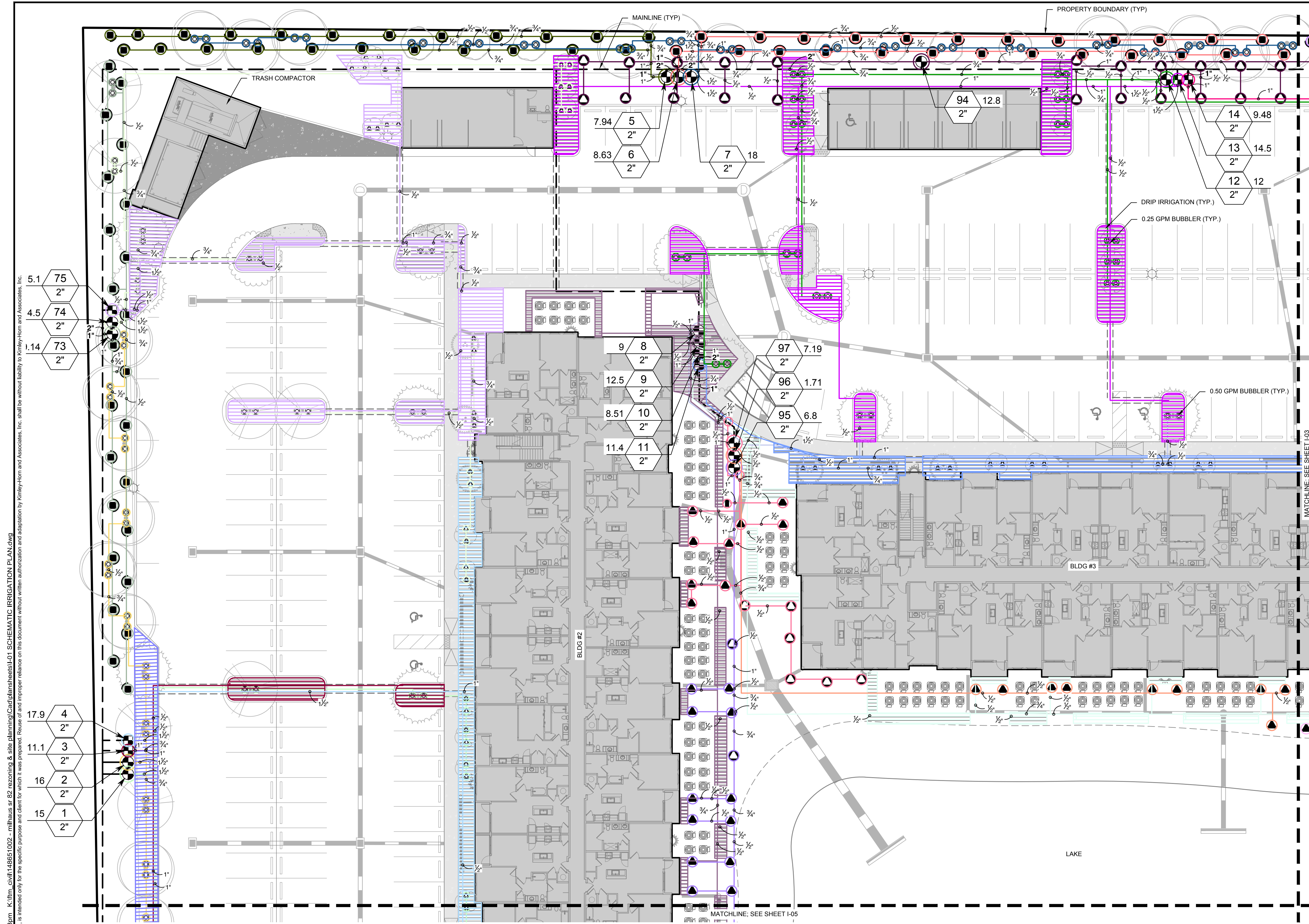
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NORTH

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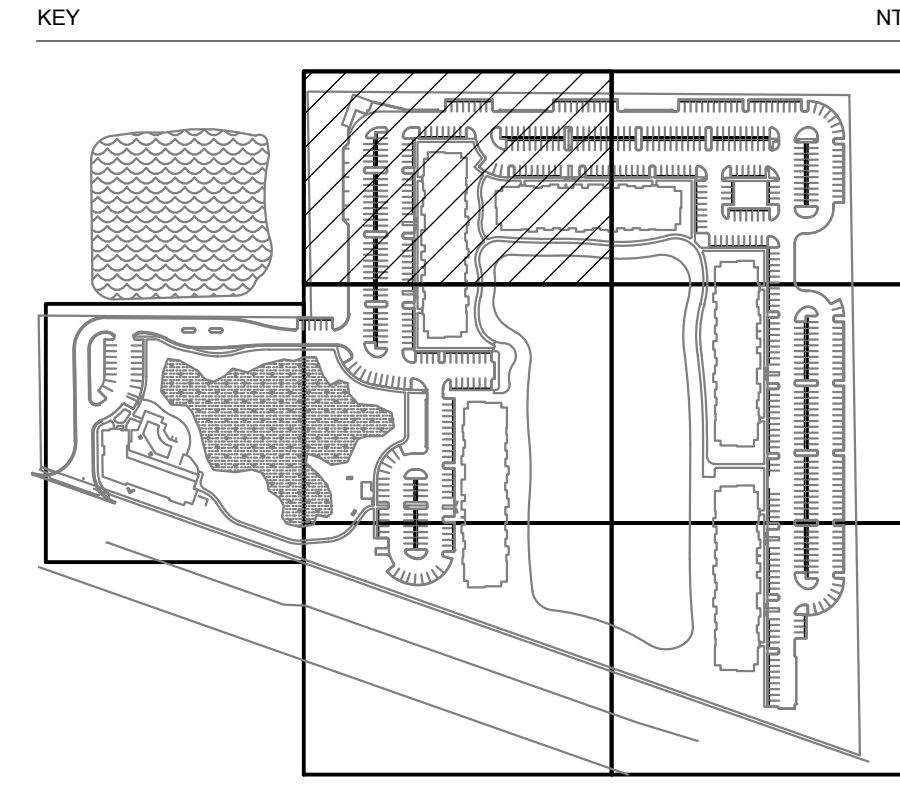
 200 CENTRAL AVENUE, SUITE 600 ST. PETERSBURG, FL 33701 PHONE: 727-581-9999 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106	
KHA PROJECT 149651002	LICENSED PROFESSIONAL JENNIFER L. DAOUAS P.L.A. FLORIDA LICENSE NUMBER 6667369
DATE JANUARY 2023	SCALE AS SHOWN
DRAWN BY KHA	CHECKED BY JLD
IRRIGATION INDEX	
HIGHWAY 82 MULTI-FAMILY PREPARED FOR MILHAUS DEVELOPMENT, LLC CITY OF FORT MYERS, FLORIDA	
SHEET NUMBER I-01	



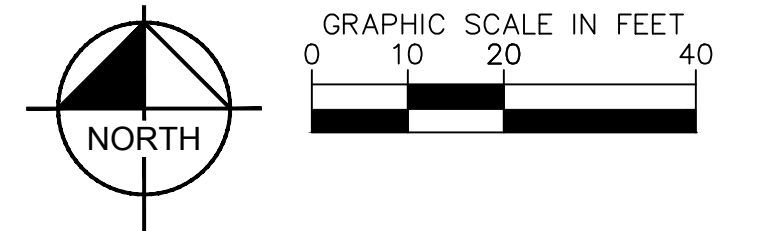
IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL
	HUNTER MP CORNER PROS-04-PRS40-CV
	HUNTER MP STRIP PROS-04-PRS40-CV
	HUNTER MP1000 PROS-04-PRS40-CV
	HUNTER MP2000 PROS-04-PRS40-CV
	HUNTER MP3000 PROS-04-PRS40-CV
	HUNTER MP CORNER PROS-06-PRS40-CV
	HUNTER MP STRIP PROS-06-PRS40-CV
	HUNTER MP1000 PROS-06-PRS40-CV
	HUNTER MP2000 PROS-06-PRS40-CV
	HUNTER PCB 10
	HUNTER ICZ-201-XL-40
	AREA TO RECEIVE DRIPLINE HUNTER HDL-09-18
	HUNTER ICV-G
	HUNTER IBV 2"
	HUNTER A2C-75D-SS
	HUNTER RAIN-CLIK
	HUNTER HFS-200
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40
	IRRIGATION MAINLINE: PVC SCHEDULE 40
	PIPE SLEEVE: PVC CLASS 200 SDR 21
	Valve Callout
	Valve Number
	Valve Flow
	Valve Size

Printed By: Brenda, Jessica Sheet Set: KHA - Layout 02 - January 05, 2023, 06:15:15am. K:\Info_civil\14665\1002 - milhaus.sr.02 - irrigation & site planning\02\irrigation\sheet\01 - SCHEMATIC IRRIGATION PLAN.dwg
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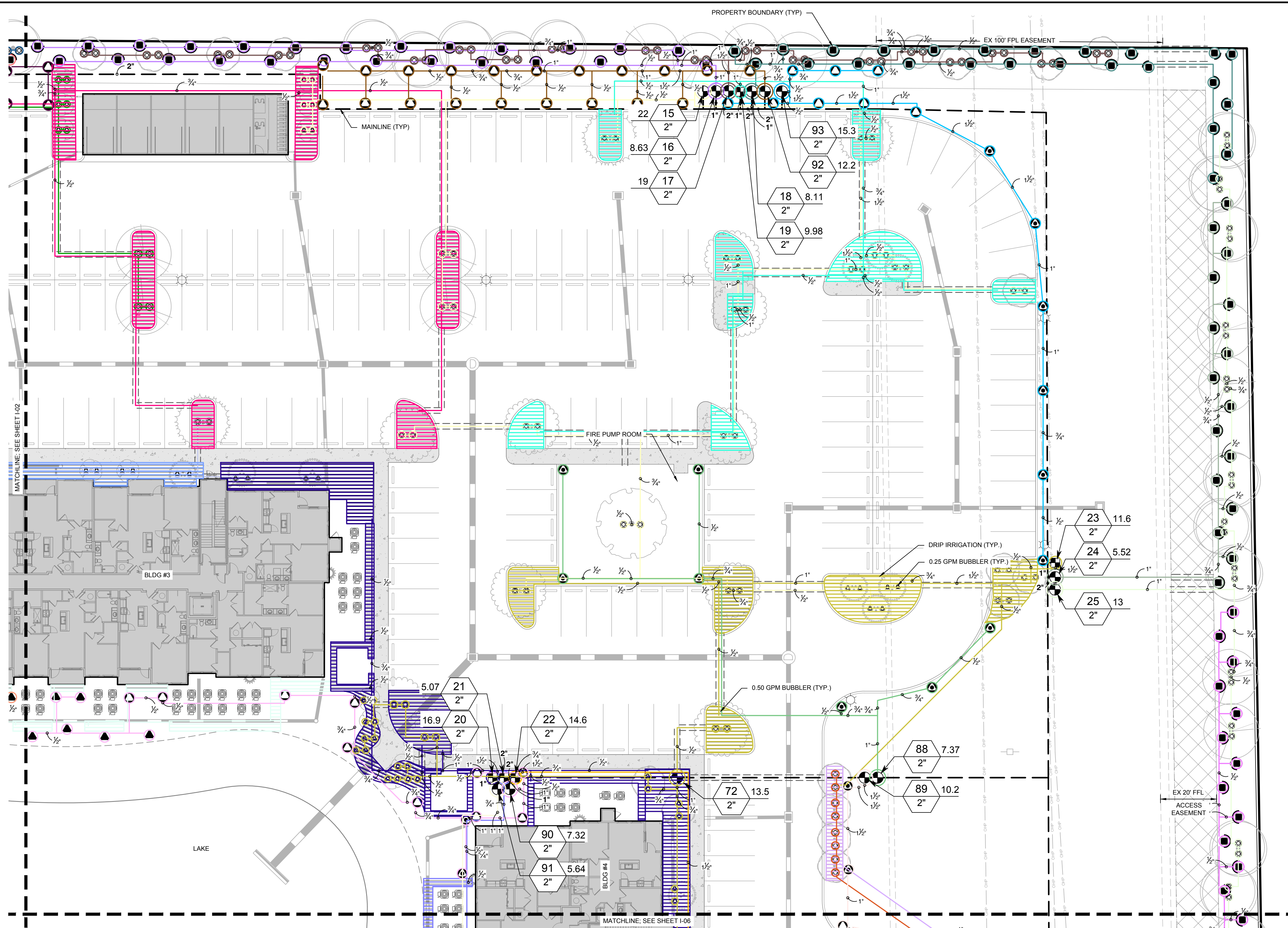


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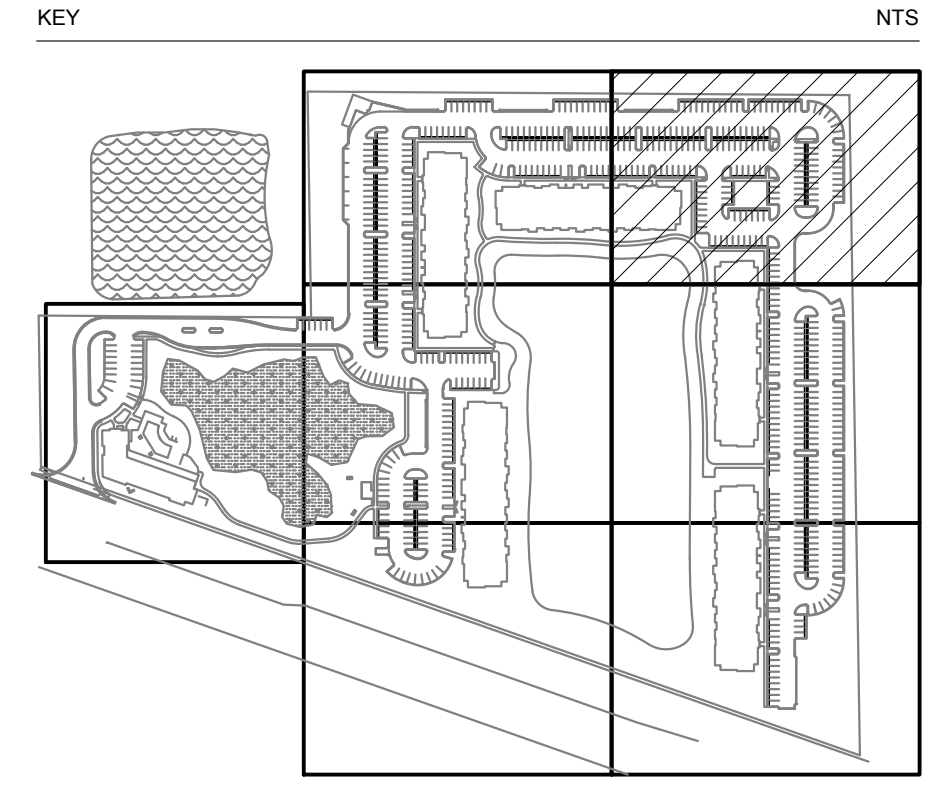
 200 CENTRAL AVENUE, SUITE 600 ST. PETERSBURG, FL 33701 PHONE: 727-561-9899 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106		REVISIONS	DATE
		No.	
LICENSED PROFESSIONAL JENNIFER L. DAOUAS P.L.A. FLORIDA LICENSE NUMBER 6667369		KHA PROJECT 146651002 DATE JANUARY 2023 SCALE AS SHOWN DESIGNED BY KHA DRAWN BY KHA CHECKED BY JLD	
IRRIGATION PLAN		SHEET NUMBER I-02	
HIGHWAY 82 MULTI-FAMILY PREPARED FOR MILHAUS DEVELOPMENT, LLC CITY OF FORT MYERS, FLORIDA		GMP SET - NOT FOR CONSTRUCTION	

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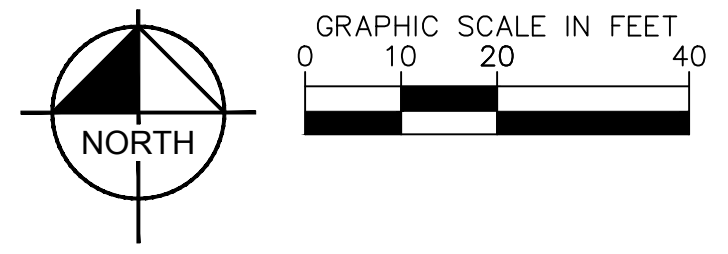


IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL
	HUNTER MP CORNER PROS-04-PRS40-CV
	HUNTER MP STRIP PROS-04-PRS40-CV
	HUNTER MP1000 PROS-04-PRS40-CV
	HUNTER MP2000 PROS-04-PRS40-CV
	HUNTER MP3000 PROS-04-PRS40-CV
	HUNTER MP CORNER PROS-06-PRS40-CV
	HUNTER MP STRIP PROS-06-PRS40-CV
	HUNTER MP1000 PROS-06-PRS40-CV
	HUNTER MP2000 PROS-06-PRS40-CV
	HUNTER PCB 10
SYMBOL	MANUFACTURER/MODEL
	HUNTER ICZ-201-XL-40
	AREA TO RECEIVE DRIPLINE HUNTER HDL-09-18
SYMBOL	MANUFACTURER/MODEL
	HUNTER ICV-G
	HUNTER IBV 2"
	HUNTER A2C-75D-SS
	HUNTER RAIN-CLIK
	HUNTER HFS-200
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40
	IRRIGATION MAINLINE: PVC SCHEDULE 40
	PIPE SLEEVE: PVC CLASS 200 SDR 21



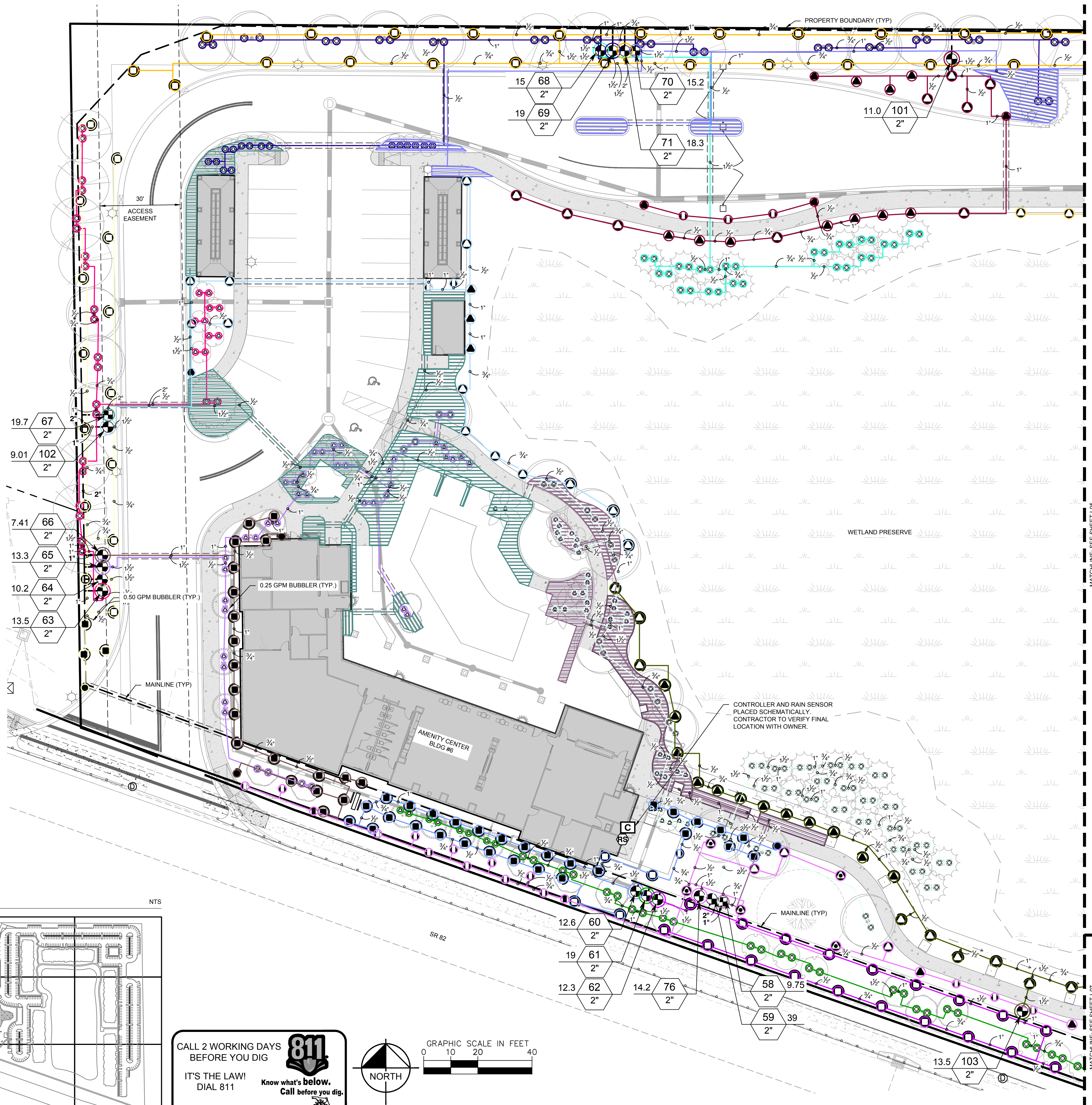
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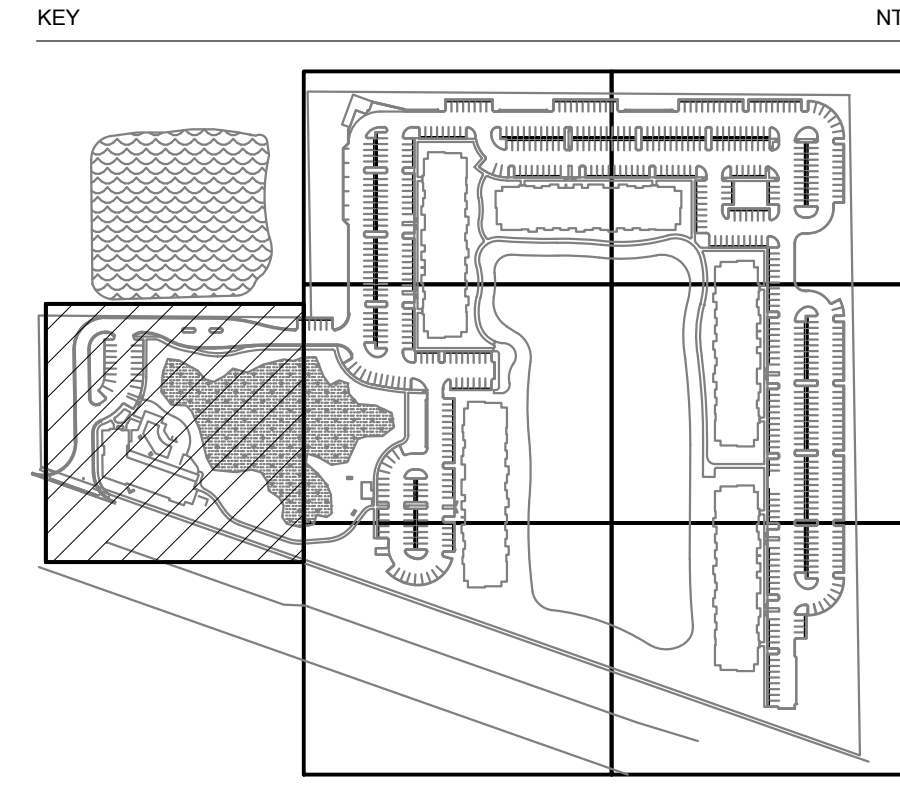
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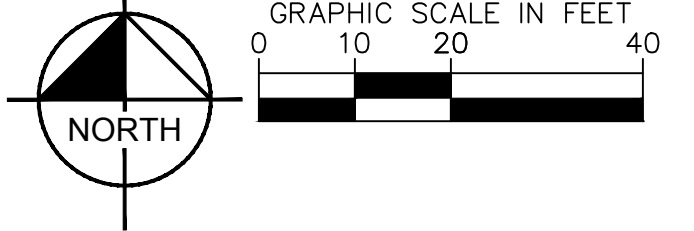
IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL
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	HUNTER MP STRIP PROS-04-PRS40-CV
	HUNTER MP1000 PROS-04-PRS40-CV
	HUNTER MP2000 PROS-04-PRS40-CV
	HUNTER MP3000 PROS-04-PRS40-CV
	HUNTER MP CORNER PROS-06-PRS40-CV
	HUNTER MP STRIP PROS-06-PRS40-CV
	HUNTER MP1000 PROS-06-PRS40-CV
	HUNTER MP2000 PROS-06-PRS40-CV
	HUNTER PCB 10
SYMBOL	MANUFACTURER/MODEL
	HUNTER ICZ-201-XL-40
	AREA TO RECEIVE DRIPLINE HUNTER HDL-09-18
SYMBOL	MANUFACTURER/MODEL
	HUNTER IBV 2"
	HUNTER A2C-75D-SS
	HUNTER RAIN-CLIK
	HUNTER HFS-200

- IRRIGATION LATERAL LINE: PVC SCHEDULE 40
 - IRRIGATION MAINLINE: PVC SCHEDULE 40
 - PIPE SLEEVE: PVC CLASS 200 SDR 21
- Valve Callout
 Valve Number
 Valve Flow
 Valve Size



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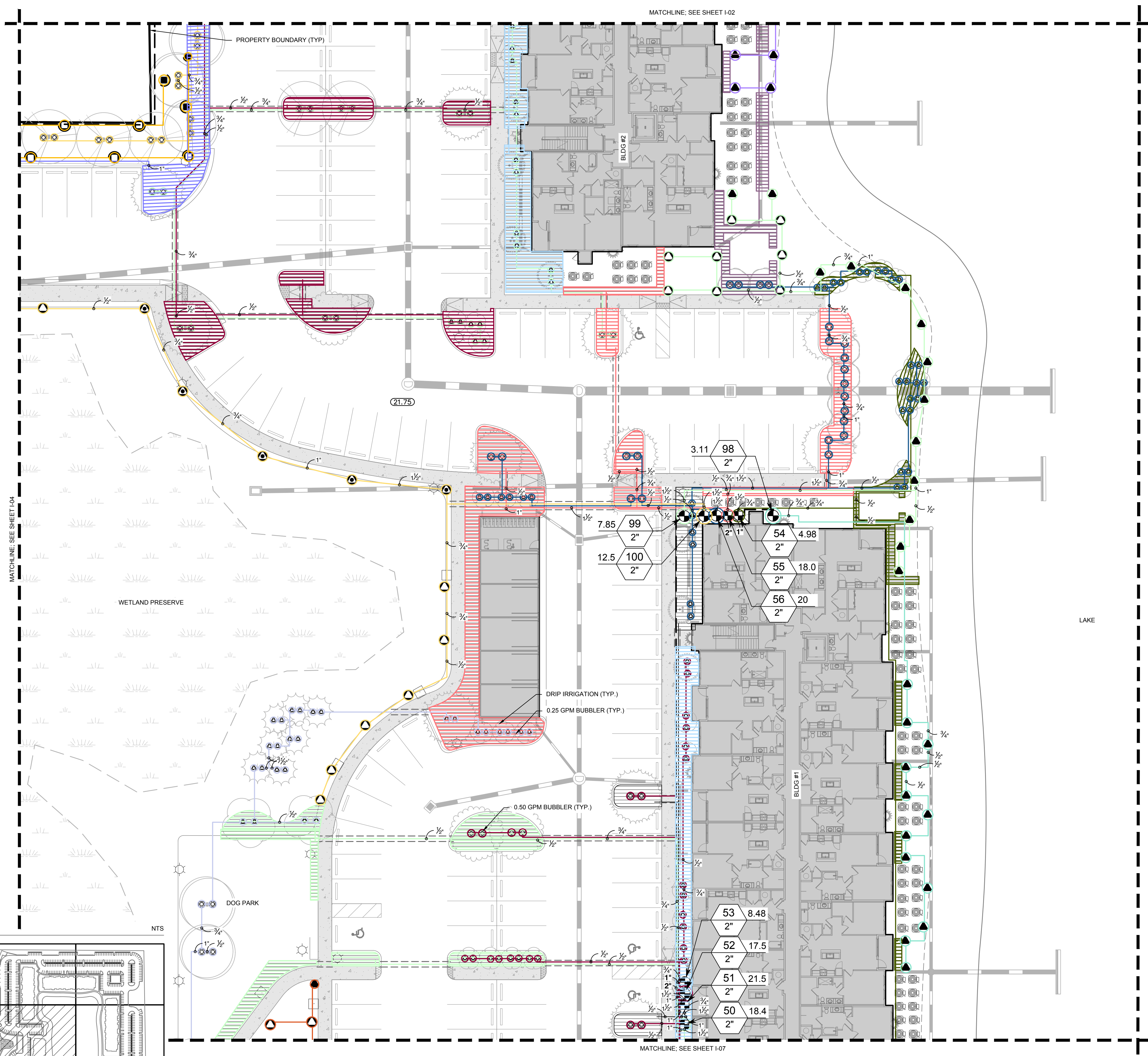


MATCHLINE - SEE SHEET 107

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IRRIGATION PLAN		HIGHWAY 82 MULTI-FAMILY PREPARED FOR MILHAUS DEVELOPMENT, LLC CITY OF FORT MYERS FLORIDA	
SHEET NUMBER		I-04	

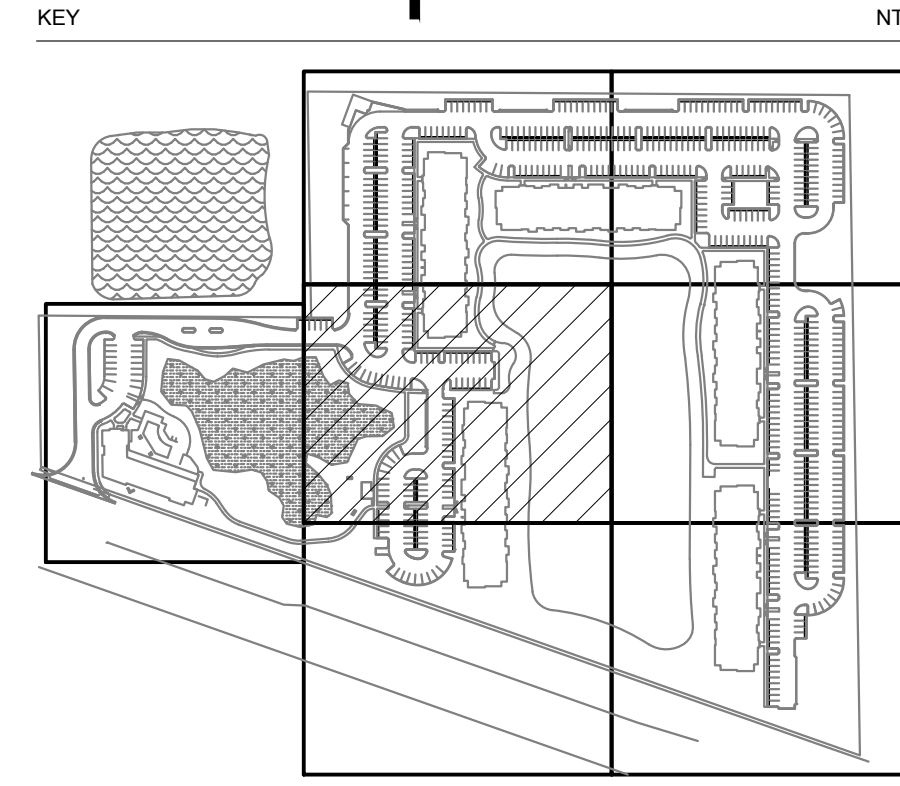
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IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL
	HUNTER MP CORNER PROS-04-PRS40-CV
	HUNTER MP STRIP PROS-04-PRS40-CV
	HUNTER MP1000 PROS-04-PRS40-CV
	HUNTER MP2000 PROS-04-PRS40-CV
	HUNTER MP3000 PROS-04-PRS40-CV
	HUNTER MP CORNER PROS-06-PRS40-CV
	HUNTER MP STRIP PROS-06-PRS40-CV
	HUNTER MP1000 PROS-06-PRS40-CV
	HUNTER MP2000 PROS-06-PRS40-CV
	HUNTER PCB 10
SYMBOL	MANUFACTURER/MODEL
	HUNTER ICZ-201-XL-40
	AREA TO RECEIVE DRIPLINE HUNTER HDL-09-18
SYMBOL	MANUFACTURER/MODEL
	HUNTER IBV 2"
	HUNTER A2C-75D-SS
	HUNTER RAIN-CLIK
	HUNTER HFS-200
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40
	IRRIGATION MAINLINE: PVC SCHEDULE 40
	PIPE SLEEVE: PVC CLASS 200 SDR 21
	Valve Callout
	Valve Number
	Valve Flow
	Valve Size



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ST. PETERSBURG, FL 33701
PHONE: 727-581-9899
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
 JENNIFER L. DAOUAS P.L.A.
 FLORIDA LICENSE NUMBER
 6667369

KHA PROJECT
 148651002
 DATE
 JANUARY 2023
 SCALE AS SHOWN
 DESIGNED BY KHA
 DRAWN BY KHA
 CHECKED BY JLD

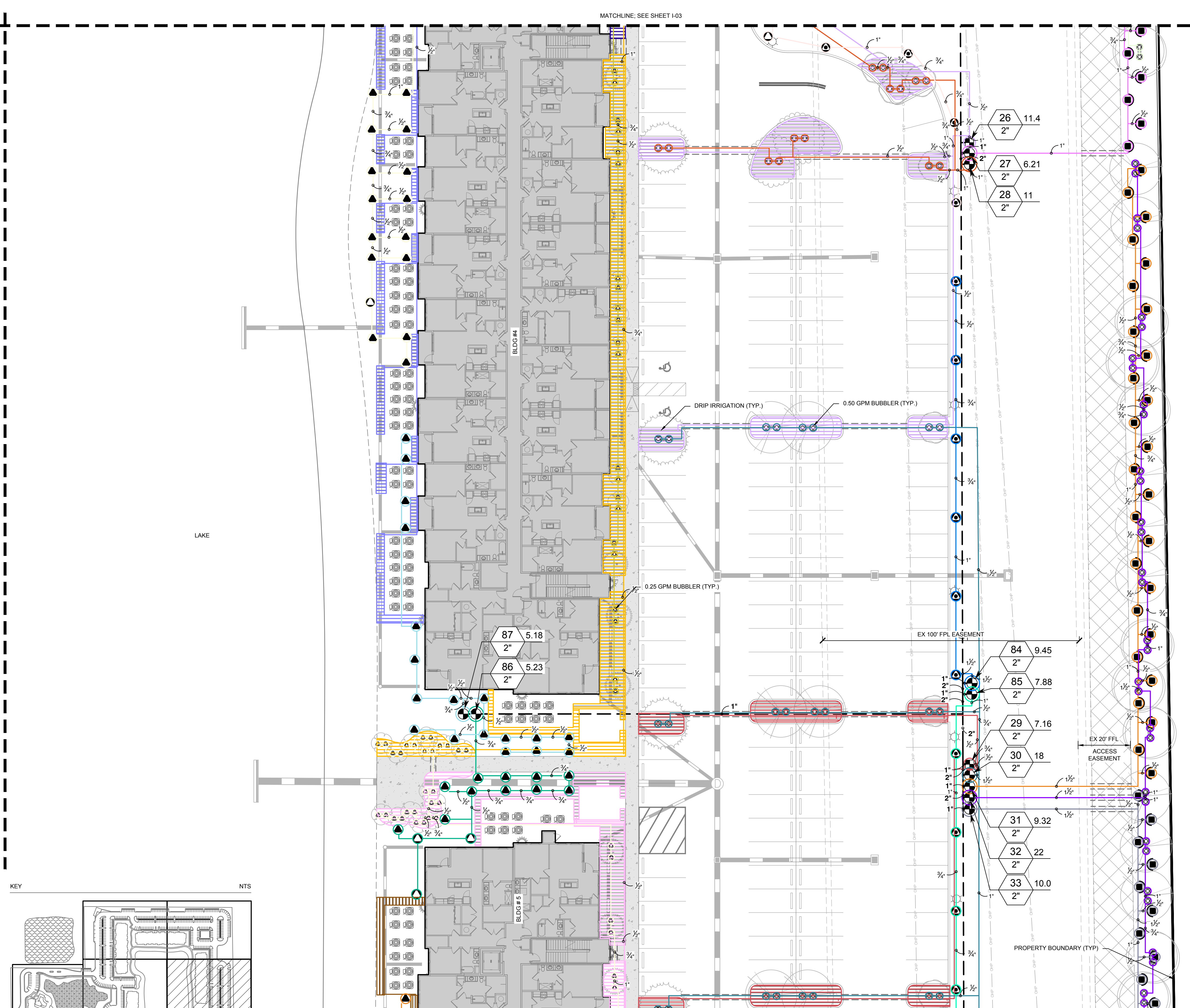
IRRIGATION PLAN

**HIGHWAY 82
 MULTI-FAMILY**
 PREPARED FOR
**MILHAUS DEVELOPMENT,
 LLC**
 CITY OF FORT MYERS, FLORIDA

SHEET NUMBER
I-05

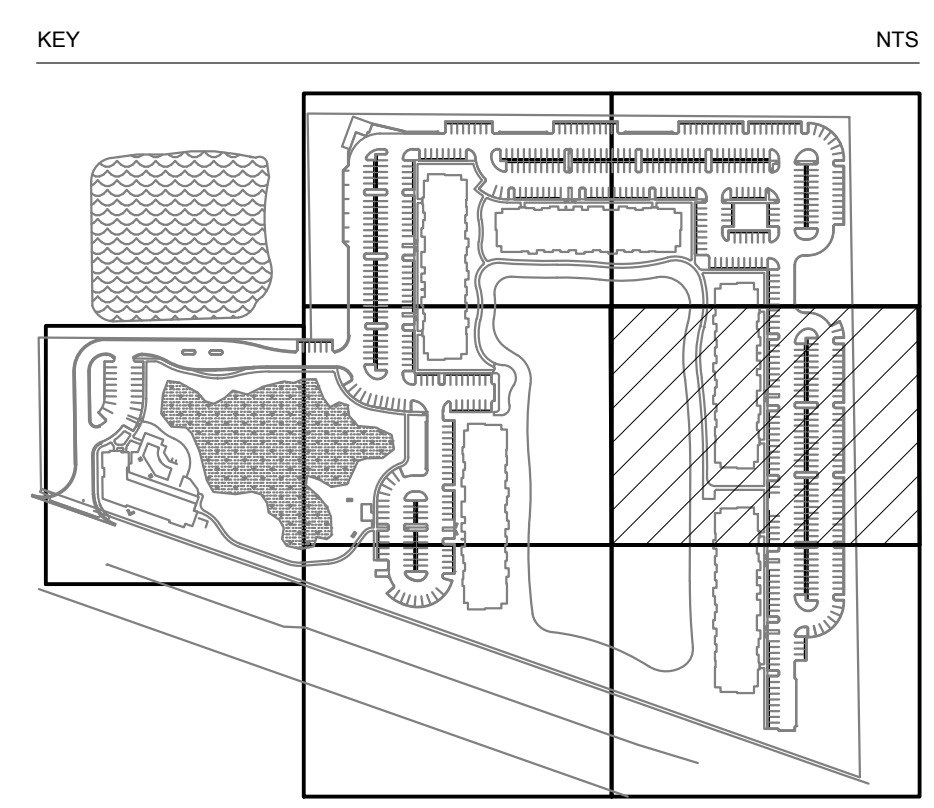
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Project: By: Braud, Jessica Sheet: Schematic Irrigation Plan Date: 05/2023 06/17/2023
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IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL
	HUNTER MP CORNER PROS-04-PRS40-CV
	HUNTER MP STRIP PROS-04-PRS40-CV
	HUNTER MP1000 PROS-04-PRS40-CV
	HUNTER MP2000 PROS-04-PRS40-CV
	HUNTER MP3000 PROS-04-PRS40-CV
	HUNTER MP CORNER PROS-06-PRS40-CV
	HUNTER MP STRIP PROS-06-PRS40-CV
	HUNTER MP1000 PROS-06-PRS40-CV
	HUNTER MP2000 PROS-06-PRS40-CV
	HUNTER PCB 10
SYMBOL	MANUFACTURER/MODEL
	HUNTER ICZ-201-XL-40
	AREA TO RECEIVE DRIPLINE HUNTER HDL-09-18
SYMBOL	MANUFACTURER/MODEL
	HUNTER IBV-G
	HUNTER IBV 2"
	HUNTER A2C-75D-SS
	HUNTER RAIN-CLIK
	HUNTER HFS-200
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40
	IRRIGATION MAINLINE: PVC SCHEDULE 40
	PIPE SLEEVE: PVC CLASS 200 SDR 21
	Valve Callout # Valve Number # Valve Flow # Valve Size

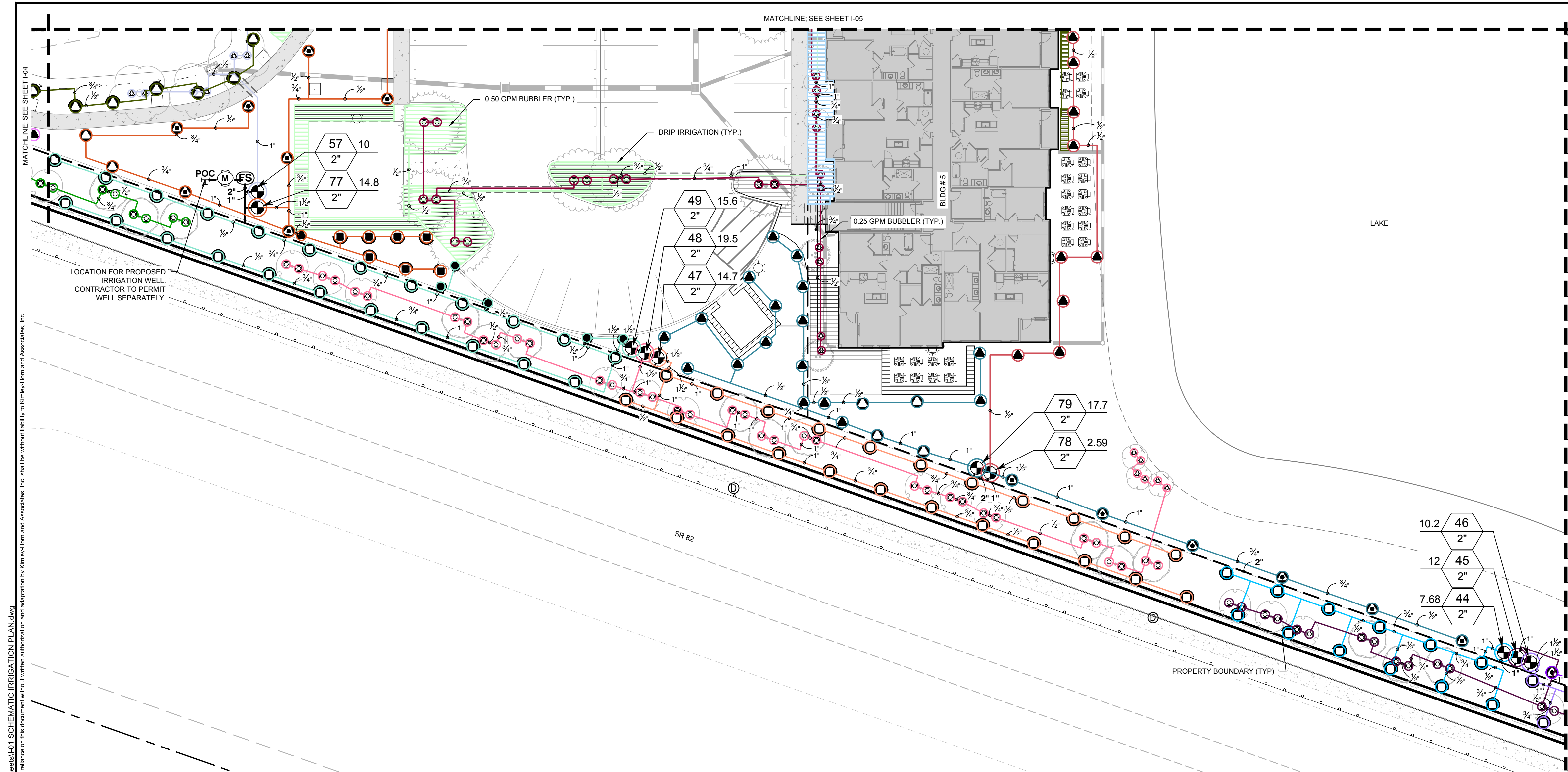


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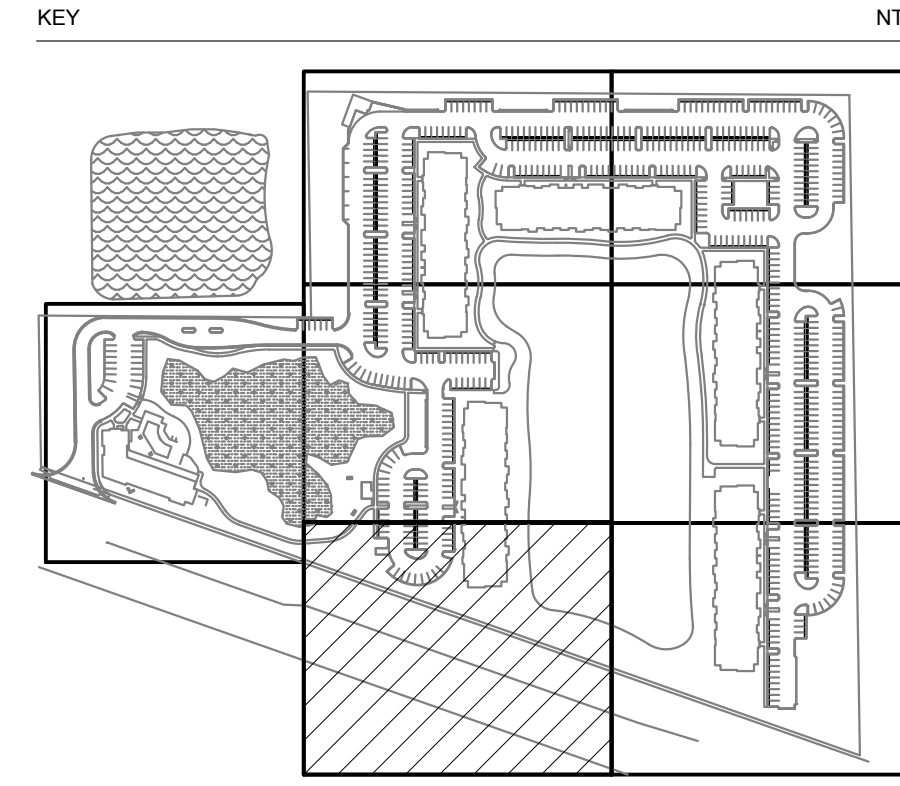
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 200 CENTRAL AVENUE, SUITE 600 ST. PETERSBURG, FL 33701 PHONE: 727-581-9899 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106		LICENSED PROFESSIONAL JENNIFER L. DAOUAS P.L.A. FLORIDA LICENSE NUMBER 6667369	KHA PROJECT 148651002	DATE JANUARY 2023	SCALE AS SHOWN	DESIGNED BY KHA	DRAWN BY KHA	CHECKED BY JLD	DATE
		IRRIGATION PLAN			HIGHWAY 82 MULTI-FAMILY PREPARED FOR MILHAUS DEVELOPMENT, LLC CITY OF FORT MYERS FLORIDA	SHEET NUMBER I-06			

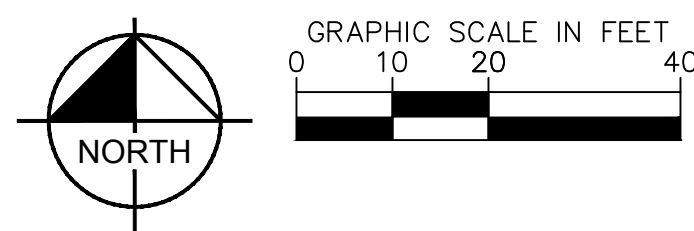
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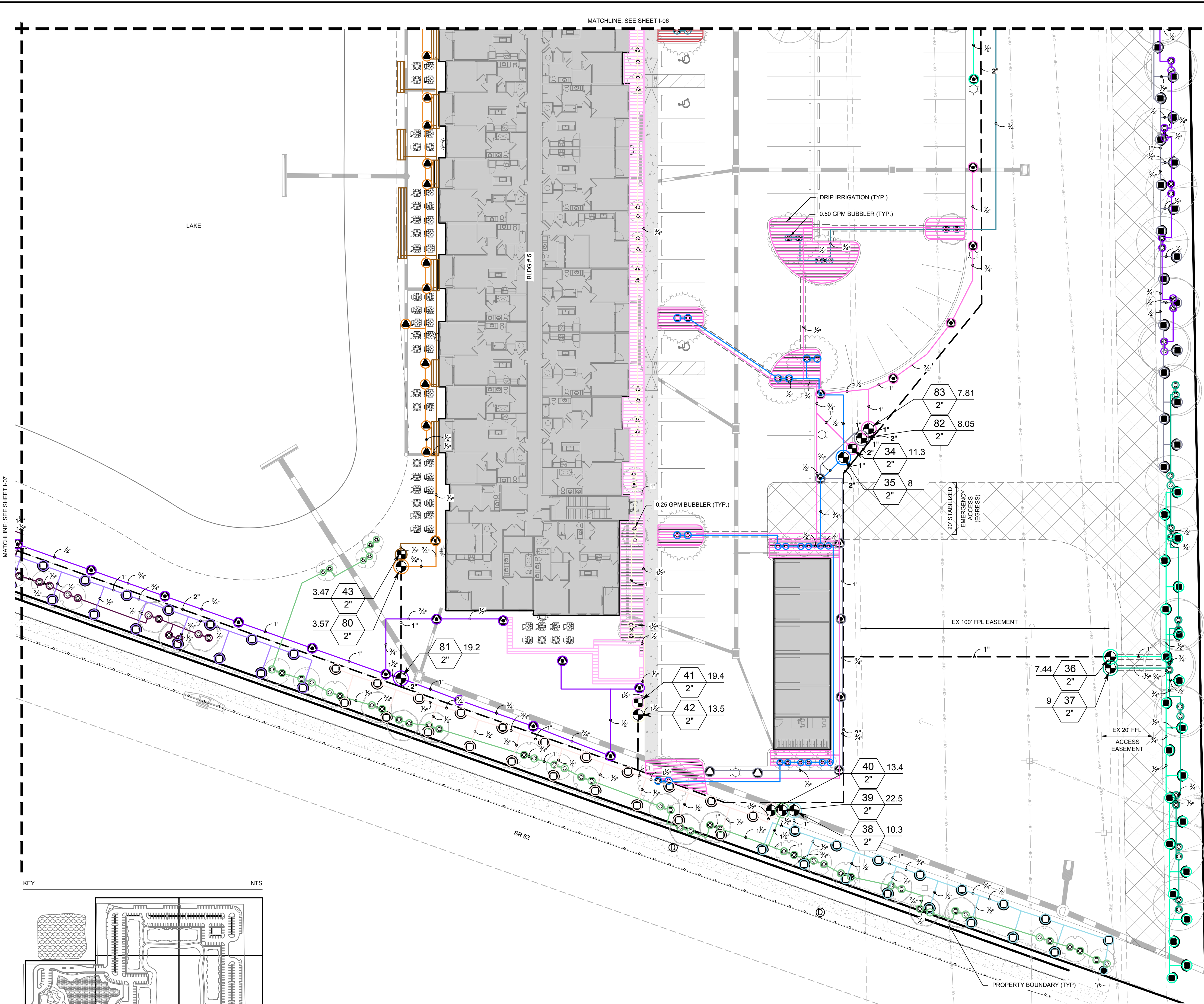
IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	SYMBOL	MANUFACTURER/MODEL
	HUNTER MP CORNER PROS-04-PRS40-CV		HUNTER ICZ-201-XL-40
	HUNTER MP STRIP PROS-04-PRS40-CV		HUNTER ICV-G
	HUNTER MP1000 PROS-04-PRS40-CV		HUNTER IBV 2"
	HUNTER MP2000 PROS-04-PRS40-CV		HUNTER A2C-75D-SS
	HUNTER MP3000 PROS-04-PRS40-CV		HUNTER RAIN-CLIK
	HUNTER MP CORNER PROS-06-PRS40-CV		HUNTER HFS-200
	HUNTER MP STRIP PROS-06-PRS40-CV		IRRIGATION LATERAL LINE: PVC SCHEDULE 40
	HUNTER MP1000 PROS-06-PRS40-CV		IRRIGATION MAINLINE: PVC SCHEDULE 40
	HUNTER MP2000 PROS-06-PRS40-CV		PIPE SLEEVE: PVC CLASS 200 SDR 21
	HUNTER PCB 10		Valve Callout
			Valve Flow
			Valve Size

GMP SET - NOT FOR CONSTRUCTION

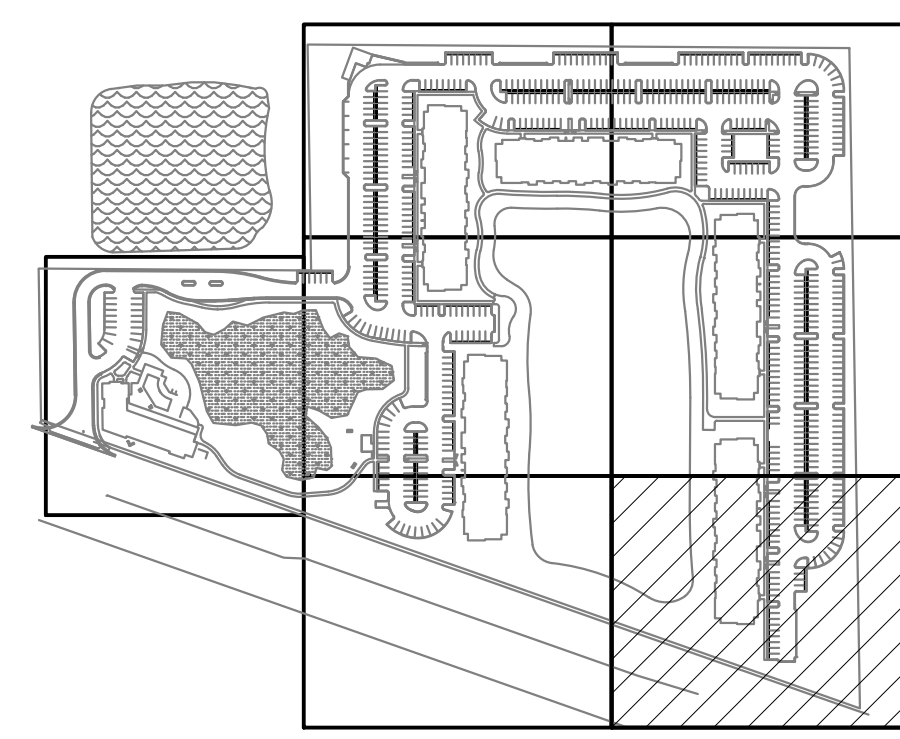
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KHA PROJECT 148651002	DATE JANUARY 2023	DESIGNED BY KHA	DRAWN BY KHA
SCALE AS SHOWN		CHECKED BY JLD	
IRRIGATION PLAN			
HIGHWAY 82 MULTI-FAMILY PREPARED FOR MILHAUS DEVELOPMENT, LLC CITY OF FORT MYERS, FLORIDA		SHEET NUMBER I-07	
REVISIONS		DATE	
No.			

Project: By Brand, Jessica. Sheet: Schematic Irrigation Plan. Date: January 05, 2023. 06:15:14 PM. K:\Info_civil\44665\002 - milhaus sr 82 rezoning & site planning\cadd\plansheets\01 SCHEMATIC IRRIGATION PLAN.dwg
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IRRIGATION SCHEDULE

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	HUNTER MP STRIP PROS-04-PRS40-CV
	HUNTER MP1000 PROS-04-PRS40-CV
	HUNTER MP2000 PROS-04-PRS40-CV
	HUNTER MP3000 PROS-04-PRS40-CV
	HUNTER MP CORNER PROS-06-PRS40-CV
	HUNTER MP STRIP PROS-06-PRS40-CV
	HUNTER MP1000 PROS-06-PRS40-CV
	HUNTER MP2000 PROS-06-PRS40-CV
	HUNTER PCB 10
	HUNTER PCB 10
	HUNTER PCB 10
	HUNTER PCB 10
SYMBOL	MANUFACTURER/MODEL
	HUNTER ICZ-201-XL-40
	AREA TO RECEIVE DRIPLINE HUNTER HDL-09-18
SYMBOL	MANUFACTURER/MODEL
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	HUNTER RAIN-CLIK
	HUNTER HFS-200
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40
	IRRIGATION MAINLINE: PVC SCHEDULE 40
	PIPE SLEEVE: PVC CLASS 200 SDR 21



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		LICENSED PROFESSIONAL JENNIFER L. DAQUILA P.L.A. FLORIDA LICENSE NUMBER 6667369
KHA PROJECT 1446651002	DATE JANUARY 2023	SCALE AS SHOWN
DESIGNED BY KHA	DRAWN BY KHA	CHECKED BY JLD
IRRIGATION PLAN		
HIGHWAY 82 MULTI-FAMILY PREPARED FOR MILHAUS DEVELOPMENT, LLC CITY OF FORT MYERS, FLORIDA		
SHEET NUMBER I-08		GMP SET - NOT FOR CONSTRUCTION

IRRIGATION SPECIFICATIONS

1. SCOPE OF WORK

- 1.1. THE WORK CONSISTS OF: FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THESE PLANS.
- 1.2. INSTALL THE IRRIGATION SYSTEM TO PROVIDE 100% UNIFORM COVERAGE INCLUDING ANY CHANGES MADE IN THE LAYOUT DUE TO FIELD CONDITIONS. ALL FIELD CHANGES SHALL BE IN ACCORDANCE WITH THESE PLANS. ANY SYSTEMS THAT REQUIRE FIELD ADJUSTMENT TO PROVIDE FULL AND UNIFORM COVERAGE SHALL BE MADE PRIOR TO FINAL ACCEPTANCE AT THE DIRECTION OF THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST.
- 1.3. SECURE ANY AND ALL NECESSARY PERMITS FOR THE WORK PRIOR TO COMMENCEMENT OF OPERATIONS ON-SITE. SEND COPIES OF THE PERMIT(S) TO THE OWNER'S REPRESENTATIVE. FOR WORK LOCATED IN THE R.O.W., CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE AGENCY HAVING JURISDICTION.
- 1.4. WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS.

2. PROTECTION OF EXISTING AND PROPOSED SITE ELEMENTS

- 2.1. ALL EXISTING SITE ITEMS, ALREADY COMPLETED OR ESTABLISHED AND DESIGNATED TO REMAIN SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM THE CONTRACTOR'S WORK SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER, AT NO COST TO THE OWNER.
- 2.2. MAINTAIN ALL NECESSARY BMP DEVICES THROUGHOUT THE DURATION OF ALL CONSTRUCTION ACTIVITIES.
- 2.3. WHERE APPLICABLE, SUBMIT A DETAILED PROJECT SPECIFIC WORK ZONE TRAFFIC CONTROL PLAN IN ACCORDANCE WITH THE APPROPRIATE REGULATORY AGENCY STANDARDS UNLESS THE WORK REQUIRES NOTHING MORE THAN A DIRECT APPLICATION OF FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, INDEX 102-000.
- 2.4. LOCATE ALL UTILITIES, WHETHER PUBLIC OR PRIVATE, PRIOR TO CONSTRUCTION ACTIVITIES. THE INFORMATION AND DATA SHOWN WITH RESPECT TO UTILITIES IS APPROXIMATE. THE OWNER AND DESIGN PROFESSIONAL SHALL NOT BE RESPONSIBLE FOR THE ACCURACY AND COMPLETENESS OF ANY SUCH INFORMATION OR DATA. THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR: REVIEWING AND CHECKING ALL SUCH INFORMATION AND DATA; LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION; THE SAFETY AND PROTECTION THEREOF; AND REPAIRING ANY DAMAGE RESULTING FROM THE WORK. THE COST OF ALL WILL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT PRICE. NOTIFY ANY AFFECTED UTILITY COMPANIES OR AGENCIES IN WRITING AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION. NOTIFY THE LANDSCAPE ARCHITECT IN WRITING WHEN ANY CONFLICT BETWEEN UTILITIES AND THESE PLANS EXIST PRIOR TO INSTALLATION.

3. SUBMITTALS

- 3.1. SUBMIT FULL AND COMPLETE SHOP DRAWINGS OF ALL IRRIGATION EQUIPMENT AS SHOWN ON THESE PLANS TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO INSTALLATION.
- 3.2. SUBMIT PRODUCT DATA SHEETS FOR ALL IRRIGATION EQUIPMENT TO BE INSTALLED TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO INSTALLATION. THE IRRIGATION SYSTEM, AS SHOWN ON THESE PLANS, HAS BEEN DESIGNED AND CALCULATED WITH THE EQUIPMENT AS SPECIFIED. SUBMIT ANY REQUEST FOR PRODUCT SUBSTITUTION(S) IN WRITING. IF APPROVED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY NECESSARY MODIFICATION(S) AS A RESULT OF PRODUCT SUBSTITUTIONS TO THE IRRIGATION SYSTEM IN THE SHOP DRAWINGS TO MEET THE DESIGN INTENT OF THESE PLANS.

4. EQUIPMENT LIST

- 4.1. ALL QUANTITIES ARE PROVIDED FOR CONVENIENCE ONLY. CONFIRM ALL QUANTITIES PER PLAN PRIOR TO BIDDING AND CONSTRUCTION.

5. POINT OF CONNECTION

- 5.1. FIELD VERIFY ALL POINT OF CONNECTION SOURCE INFORMATION INCLUDING STATIC PSI AND GPM AVAILABLE PRIOR TO CONSTRUCTION. NOTIFY OWNER'S REPRESENTATIVE IN WRITING IF DISCREPANCIES BETWEEN THE FLOW AND PRESSURE AS LISTED IN THE CRITICAL ANALYSIS AND THE FIELD CONDITIONS EXIST.
- 5.2. COORDINATE INSTALLATION OF ANY METERS AND BACKFLOW ASSEMBLIES WITH THE AGENCY HAVING JURISDICTION AND OWNER'S REPRESENTATIVE.

6. MAINLINE INSTALLATION

- 6.1. INSTALL ALL MAINLINES AND LATERALS UNDER PAVEMENT WITHIN SLEEVES. WHERE VALVE CONTROL LINES PASS THROUGH A SLEEVE WITH OTHER MAIN OR LATERAL LINES, CONTAIN WIRES WITHIN A SEPARATE, SMALLER CONDUIT.
- 6.2. INSTALL COLOR CODED METAL DETECTABLE MARKING TAPE WHICH CLEARLY NOTES: "CAUTION: IRRIGATION LINE BURIED BELOW" ABOVE THE FULL LENGTH OF THE IRRIGATION MAINLINE.
- 6.3. WHERE MAINLINE RUNS PARALLEL TO PAVEMENT OR CURBING, OFFSET THE MAINLINE 24" FROM THE EDGE OF PAVEMENT OR CURB.
- 6.4. PERFORM HYDROSTATIC PRESSURE TESTING AS FOLLOWS:
 - 6.4.1. AFTER FLUSHING, AND THE INSTALLATION OF VALVES CONDUCT THE FOLLOWING TESTS IN THE SEQUENCE LISTED BELOW. FURNISH ALL EQUIPMENT, MATERIALS AND LABOR NECESSARY TO PERFORM THE TESTS. CONDUCT ALL TESTS IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. NOTIFY THE OWNER'S REPRESENTATIVE FORTY-EIGHT (48) HOURS IN ADVANCE OF TESTING.
 - 6.4.2. PERFORM WATER PRESSURE TESTS ON ALL PRESSURE MAIN LINES BEFORE ANY COUPLINGS, FITTINGS, VALVES AND THE LIKE ARE CONCEALED.
 - 6.4.3. IMMEDIATELY PRIOR TO TESTING, PURGE ALL IRRIGATION LINES OF ALL ENTRAPPED AIR OR DEBRIS BY ADJUSTING CONTROL VALVES AND INSTALLING TEMPORARY CAPS FORCING WATER AND DEBRIS TO BE DISCHARGED FROM A SINGLE OUTLET.
 - 6.4.4. TEST ALL PRESSURE MAIN LINE AT 150 PSI FOR A MINIMUM OF FOUR (4) HOURS WITH AN ALLOWABLE LOSS OF 5 PSI. PRESSURE AND GAUGES SHALL BE READ IN PSI, AND CALIBRATED SUCH THAT ACCURATE DETERMINATION OF POTENTIAL PRESSURE LOSS CAN BE ASCERTAINED.
 - 6.4.5. RE-TEST AS REQUIRED UNTIL THE SYSTEM MEETS THE REQUIREMENTS. REPAIR ANY LEAKS, WHICH OCCUR DURING TEST PERIOD, IMMEDIATELY FOLLOWING THE TEST.
 - 6.4.6. PROVIDE DOCUMENTATION STATING THE WEATHER CONDITIONS, DATE, THE START TIME AND INITIAL WATER PRESSURE READINGS, THE FINISH TIME AND FINAL WATER PRESSURE READINGS AND THE TYPE OF EQUIPMENT USED TO PERFORM THE TEST. THE DOCUMENTATION MUST BE SIGNED BY A WITNESS ACCEPTABLE TO THE OWNER, VERIFYING ALL OF THE ABOVE-MENTIONED CONDITIONS.
 - 6.4.7. SUBMIT A WRITTEN REPORT OF THE PRESSURE TESTING RESULTS WITH THE OTHER ABOVE REQUIRED INFORMATION TO THE OWNER'S REPRESENTATIVE FOR APPROVAL.

7. IRRIGATION VALVES AND WIRING

- 7.1. LOCATE ALL VALVES, SPLICES WITHIN CONTROL LINES, QUICK COUPLERS, AND HOSE BIBBS WITHIN VALVE BOXES. PROVIDE PURPLE VALVE BOX LIDS FOR SYSTEMS UTILIZING A NON-POTABLE WATER SOURCE.
- 7.2. NUMBER THE TOP OF ALL VALVE BOX LIDS WITH MINIMUM 1" HEIGHT BLACK LETTERS TO CORRESPOND TO THE VALVE DESIGNATIONS.
- 7.3. WHEN POSSIBLE, LOCATE ALL VALVES IN PLANTING BEDS A MINIMUM OF 24" FROM BACK OF CURB OR EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.
- 7.4. SEPARATE IRRIGATION ZONES FOR HIGH AND LOW WATER USE REQUIREMENTS AND OPERATED ON DIFFERENT WATERING CYCLES. AT NO TIME SHALL MULTIPLE IRRIGATION HEAD TYPES BE LOCATED ON THE SAME VALVE UNLESS NOTED OTHERWISE.
- 7.5. INSTALL ALL DRIP ZONES WITH A FLUSH VALVE AND AIR RELIEF VALVE. IN THE EVENT THAT A DRIP ZONE HAS MORE THAN ONE HIGH OR LOW POINT, MORE THAN ONE AIR RELIEF VALVE OR FLUSH VALVE WILL BE REQUIRED FOR THAT ZONE.
- 7.6. FOLLOW MANUFACTURER'S SPECIFICATIONS FOR ALL WIRING FOR CONNECTION OF THE VALVES TO THE CONTROLLER. ALL WIRE RUNS SHALL BE CONTINUOUS WITH SPLICING OCCURRING IN VALVE BOXES ONLY. WIRE CONNECTIONS SHALL BE MADE USING DBRY-6 CONNECTIONS OR APPROVED EQUIVAL.
- 7.7. INSTALL VALVE CONTROL WIRING IN THE SAME TRENCH AS THE MAINLINE WHERE PRACTICAL.

- 7.8. FOR NON TWO-WIRE SYSTEMS, RUN TWO (2) SPARE VALVE CONTROL WIRES FROM THE CONTROLLER ALONG THE ENTIRE MAINLINE TO LAST REMOTE CONTROLLED VALVE ON EACH AND EVERY LEG OF MAINLINE.

8. PIPES AND SLEEVING

- 8.1. DO NOT INSTALL IRRIGATION SYSTEM THROUGH PRESERVED PLANT COMMUNITIES, DRIPLINE OF EXISTING TREES, OR WITHIN WETLANDS UNLESS SPECIFICALLY NOTED OTHERWISE.
- 8.2. LOCATE ALL IRRIGATION LINES WITHIN LANDSCAPED AREAS WHENEVER POSSIBLE. ALL LINES UNDER PAVEMENT MUST BE SLEEVED.
- 8.3. SIZE ALL PIPE SLEEVES TWO PIPE SIZES GREATER THAN THE PIPE / CUMULATIVE SUM OF THE PIPES IT CARRIES.
- 8.4. SLEEVES UNDER EXISTING PAVEMENT MUST BE DIRECTIONAL BORE UNLESS APPROVED BY OWNER IN WRITING.
- 8.5. SOLVENT CEMENTS SHALL COMPLY WITH ASTM D2564.

9. CONTROLLER AND SENSORS

- 9.1. COORDINATE WITH OWNER'S REPRESENTATIVE FOR FINAL CONTROLLER AND RAIN SENSOR LOCATIONS. THE CONTROLLER SHALL BE PLACED IN A LOCKING CABINET APPROPRIATE FOR ITS LOCATION (INDOOR VS. OUTDOOR USE)
- 9.2. LOCATE THE AUTOMATIC RAIN SENSOR SHUTOFF DEVICE IN AN AREA THAT IS UNOBSTRUCTED BY TREES, ROOF OVERHANGS, OR ANY OTHER OVERHEAD OBJECT. THE SENSOR SHALL NOT BE PLACED WITHIN THE SPRAY ZONE OF ANY SPRINKLER HEAD, INCLUDING OFF-SITE IRRIGATION. CONTRACTOR SHALL LOCATE SENSOR WITHIN CLOSE PROXIMITY TO THE IRRIGATION CONTROLLER.

10. CLEANUP

- 10.1. UPON COMPLETION OF ALL WORK AND BEFORE FINAL ACCEPTANCE, REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S REPRESENTATIVE.

11. AS-BUILT IRRIGATION PLANS

- 11.1. PROVIDE "AS-BUILT" DRAWINGS OF THE FINAL INSTALLATION TO OWNER'S REPRESENTATIVE PRIOR TO FINAL ACCEPTANCE OF WORK. INCLUDE THE FOLLOWING ON THE AS-BUILT DRAWINGS AT A MINIMUM:
 - CONTROLLER LOCATION
 - CONNECTION ASSEMBLY
 - MAINLINE ROUTING
 - PIPE SLEEVING
 - VALVE(S)
 - COLORIZED ZONING DIAGRAM
- 11.2. LOCATE ALL SLEEVES UTILIZED BY THE IRRIGATION CONTRACTOR WHETHER INSTALLED BY THE IRRIGATION CONTRACTOR OR NOT ON THE "AS-BUILT" DRAWINGS, THE DEPTH BELOW FINISH GRADE, TO THE NEAREST FOOT OF EACH END OF THE SLEEVE SHALL BE NOTED AT EACH SLEEVE LOCATION ON THE "AS-BUILT" DRAWINGS.

12. FINAL INSPECTION AND ACCEPTANCE OF WORK

- 12.1. MINIMIZE IRRIGATION OVERTHROW TO IMPERVIOUS AND NATURAL AREAS THROUGH FIELD ADJUSTMENTS TO INDIVIDUAL HEADS.
- 12.2. PROGRAM CONTROLLER TO IRRIGATE ALL ZONES WITHIN APPLICABLE WATERING WINDOWS AND PROVIDE WATERING SCHEDULE TO OWNER'S REPRESENTATIVE.
- 12.3. EQUIPMENT TO BE FURNISHED TO OWNER PRIOR TO ACCEPTANCE OF WORK:
 - TWO (2) SETS OF KEYS FOR EACH AUTOMATIC CONTROLLER.
 - TWO (2) 48 INCH TEE WRENCHES FOR OPERATING GATE VALVES (WHEN INSTALLED AS PART OF WORK).
 - THREE (3) SETS OF SPECIAL TOOLS REQUIRED FOR REMOVING, DISASSEMBLING AND ADJUSTING EACH TYPE OF - SPRINKLER AND VALVE SUPPLIED ON THIS PROJECT.
 - FIVE (5) EXTRA SPRINKLER HEADS, NOZZLES, SHRUB ADAPTERS, NOZZLE FILTER SCREENS, FOR EACH TYPE USED ON THE PROJECT.
 - TWO (2) QUICK COUPLER KEYS TO MATCH MANUFACTURER TYPE OF QUICK COUPLER.
- 12.4. UPON COMPLETION OF ALL WORK, A FINAL INSPECTION SHALL BE PERFORMED BY THE OWNER AND/OR OWNER'S REPRESENTATIVE. THE IRRIGATION SYSTEM, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT SHALL BE INSPECTED FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. ANY ITEMS FOUND TO NOT BE IN COMPLIANCE SHALL BE CORRECTED AT NO COST TO THE OWNER.

13. WARRANTY

- 13.1. THE CONTRACTOR SHALL WARRANT ALL WORKMANSHIP AND MATERIALS FOR A PERIOD OF 1 YEAR FOLLOWING THE ACCEPTANCE OF THE WORK.
- 13.2. ANY PART OF THE IRRIGATION WORK THAT FAILS OR IS DEFECTIVE SHALL BE REPLACED OR RECONSTRUCTED AT NO COST TO THE OWNER INCLUDING BUT NOT LIMITED TO: RESTORING GRASSES THAT HAVE SETTLED IN TRENCHES AND EXCAVATIONS RELATED TO THE WORK. RECONSTRUCTION SHALL INCLUDE ANY PLANTINGS, SOIL, MULCH OR OTHER PARTS OF THE CONSTRUCTED LANDSCAPE THAT MAY BE DAMAGED DURING THE REPAIR OR THAT RESULTS FROM SOIL SETTLEMENT.
- 13.3. THE DATE OF ACCEPTANCE OF THE WORK AND START OF THE GUARANTEE PERIOD SHALL BE DETERMINED BY THE OWNER. UPON THE FINDING THAT THE ENTIRE IRRIGATION SYSTEM IS INSTALLED AS DESIGNED AND SPECIFIED, AND FOUND TO BE OPERATING CORRECTLY, SUPPLYING WATER EVENLY TO ALL PLANTING AND/OR LAWN AREAS.
- 13.4. NEITHER THE FINAL ACCEPTANCE NOR ANY PROVISION IN THE CONTRACT DOCUMENTS SHALL RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR FAULTY MATERIALS OR WORKMANSHIP. REMEDY ANY DEFECTS WITHIN A PERIOD OF 7 DAYS (5) FROM THE DATE OF NOTIFICATION OF A DEFECT.

14. ABBREVIATIONS

- GPM - GALLONS PER MINUTE
 GPH - GALLONS PER HOUR
 PSI - POUNDS PER SQUARE INCH

LATERAL PIPE SIZING REQUIREMENTS

MAXIMUM FLOW	MINIMUM PIPE SIZE
10 GPM	3/4"
16 GPM	1"
26 GPM	1-1/4"
35 GPM	1-1/2"
55 GPM	2"
80 GPM	2-1/2"
120 GPM	3"

PIPE SIZES ILLUSTRATED IN THE ABOVE CHART ARE MINIMUM ACCEPTABLE SIZES. PIPE SIZES INDICATED ON PLAN ARE FOR CONVENIENCE ONLY. FIELD SIZE ALL LATERAL PIPING TO KEEP ALL FRICTION LOSS VELOCITIES BELOW 5.0 FPS.

GENERAL IRRIGATION WELL SPECIFICATIONS

THESE SPECIFICATIONS ARE NOT INTENDED TO SUPERSEDE ANY STATE OR LOCAL STANDARDS AND REGULATIONS FOR WELL CONSTRUCTION MATERIALS AND METHODS. IN THE EVENT THAT ANY PORTION OF THESE SPECIFICATIONS ARE FOUND TO BE INCONSISTENT WITH ANY STATE OR LOCAL STANDARDS AND REGULATIONS, THE CONTRACTOR SHALL IDENTIFY THE SPECIFIC INCONSISTENCY AND SHALL SUGGEST AN APPROPRIATE ALTERNATIVE PRIOR TO THEIR BID SUBMISSION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM THE DRILLING AND WELL CONSTRUCTION ACTIVITIES IN A MANNER CONSISTENT WITH ALL APPLICABLE STATE AND LOCAL STANDARDS AND REGULATIONS AND TO ALSO PROVIDE CONSTRUCTION MATERIALS THAT ARE CONSISTENT WITH THE SAME STANDARDS AND REGULATIONS.

ANY VARIATION FROM THE WELL DESIGN ON THE APPROVED PLANS IS TO BE REVIEWED AND APPROVED BY THE OWNER.

1. SITE CLEAN UP AND RESTORATION

- 1.1 IT IS THE RESPONSIBILITY OF THE WELL DRILLING CONTRACTOR TO RESTORE TO ORIGINAL CONDITION ANY COMMON AREA ALTERED OR DAMAGED DURING THE COURSE OF THE INSTALLATION. THIS INCLUDES BUT IS NOT LIMITED TO DAMAGE TO ROADWAYS, CURBING, LANDSCAPE PLANT MATERIAL, TURF AREAS AND THE EXISTING IRRIGATION SYSTEM, INCLUDING ANY EXISTING UTILITY, LINE OR OBSTRUCTION.

2. PERSONNEL AND DRILLING EQUIPMENT

- 2.1 THE CONTRACTOR SHALL BE A LICENSED MASTER WELL DRILLER. THE MASTER WELL DRILLER SHALL ALSO BE CERTIFIED BY THE NATIONAL GROUNDWATER ASSOCIATION IN THE CATEGORY OF "UNCONSOLIDATED MUD ROTARY DRILLING". A COPY OF THE DRILLER'S LICENSE AND CERTIFICATION MUST BE INCLUDED WITH THE OTHER MANDATORY REQUIREMENTS OF THIS BID PACKAGE.
- 2.2 THE CONTRACTOR SHALL SUPPLY CAPABLE, EXPERIENCED AND APPROPRIATELY LICENSED PERSONNEL AND SUITABLE DIRECT-CIRCULATION OR REVERSE-CIRCULATION ROTARY DRILLING EQUIPMENT TO PERFORM THIS WORK. SECURITY OF THE DRILLING EQUIPMENT AND MATERIALS WHILE ON SITE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SAFETY OF THEIR OWN PERSONNEL.

3. PERMITS

- 3.1 THE CONTRACTOR SHALL APPLY FOR AND ACQUIRE PERMITS FROM AUTHORIZED AGENCIES, AS REQUIRED. NO FIELD OPERATION SHALL BEGIN UNTIL ALL REQUIRED PERMITS HAVE BEEN OBTAINED. COPIES OF ALL PERMIT APPLICATIONS, ALL PERMITS, AND ALL WELL RECORDS SHALL BE PROVIDED TO THE OWNER.

4. MOBILIZATION AND DEMOBILIZATION

- 4.1 THIS ITEM INCLUDES MOVING THE MATERIALS AND EQUIPMENT FOR CONSTRUCTING AND DEVELOPING THE WELL, ALONG WITH THE MOVING OF MATERIALS AND EQUIPMENT TO AND FROM THE SITE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR CLEANING UP TRASH AND OTHER DEBRIS, DEPOSITED AS A RESULT OF CONSTRUCTION AND DEVELOPMENT ACTIVITIES, FROM THE SITE UPON COMPLETION OF THE SITE WORK. ANY REQUIRED HAULING OF WATER SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

5. MATERIALS

- 5.1 THE CHOICE OF THE DRILLING FLUID AND ITS PROPERTIES AND CONTROL SHALL BE THE COMPLETE RESPONSIBILITY OF THE CONTRACTOR. WATER USED FOR MIXING DRILLING FLUID SHALL BE FROM A POTABLE SOURCE AND SHALL BE CLEAN AND FREE FROM DELETERIOUS MATERIALS. ANY REQUIRED HAULING OF WATER SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- 5.2 ALL WELL CASINGS SHALL BE NEW. THEY SHALL BE MANUFACTURED OF 4-1/2" PVC PIPE, ASTM F-480, SDR-17, O.D. 4.950, I.D. 4.200. CASING AND WELL SCREEN SHALL CARRY A MINIMUM 5 YEAR WARRANTY.
- 5.3 THE CASING SECTIONS SHALL BE JOINED BY EITHER SOLVENT WELDING OR BY THREADED AND COUPLED JOINTS.
- 5.4 TOTAL CASING LENGTH IS TO BE DETERMINED BY THE CONTRACTOR BASED ON SELECTION OF THE MOST FAVORABLE SCREEN INTERVAL.
- 5.5 THE WELL SCREEN SECTIONS SHALL BE NEW. THEY SHALL BE MANUFACTURED FROM PVC, MINIMUM LENGTH 10' AND SHALL INCLUDE A MAXIMUM 5' TAILPIECE ON THE BOTTOM OF THE SCREEN.
 - a. THE SCREEN SECTIONS SHALL BE JOINED BY THREADED AND COUPLED JOINTS.
 - b. THE SCREEN SLOT SIZE SHALL BE 0.020 INCHES.
 - c. THE SCREEN SECTIONS SHALL HAVE A NOMINAL DIAMETER OF 4 INCHES.
 - d. TOTAL SCREEN LENGTH SHALL BE DETERMINED BY THE DRILLER.
- 5.6 THE FILTER PACK MATERIAL SHALL BE COMMERCIAL WELL GRAVEL CONSISTING OF CLEAN, WELL-ROUNDED GRAINS THAT ARE SMOOTH AND UNIFORM. THE MATERIAL SHALL BE MOSTLY SILICEOUS FILTER PACK MATERIAL SHALL BE 2.5 OR LESS. WITH NO MORE THAN 5 PERCENT CALCAREOUS MATERIAL BY WEIGHT.
- 5.7 THE WELL GRAVEL SHALL BE DELIVERED TO THE SITE IN BAGS AND SHALL BE STORED ON SITE SO THAT IT REMAINS CLEAN PRIOR TO PLACEMENT IN THE WELLS.
- 5.8 THE EFFECTIVE SIZE OF THE FILTER PACK MATERIAL SHALL BE 0.5 MM AND THE UNIFORMITY COEFFICIENT OF THE FILTER PACK MATERIAL SHALL BE 2.5 OR LESS.
- 5.9 A HIGH-SOLIDS, BENTONITE-CLAY GROUT SHALL BE USED TO SEAL THE ANNULAR SPACE BETWEEN THE BOREHOLE WALL AND THE WELL CASING. THE GROUT SHALL MEET ALL APPLICABLE DEP REQUIREMENTS.
- 5.10 THE WATER USED FOR MIXING THE GROUT SHALL BE FROM A POTABLE SOURCE AND SHALL BE CLEAN AND FREE FROM ALL DELETERIOUS MATERIALS.

6. WELL CONSTRUCTION

- 6.1 THE CONTRACTOR SHALL INSTALL THE MATERIALS PREVIOUSLY DESCRIBED SO THAT THE FINISHED WELL CONFORMS TO THE SPECIFICATIONS AND TO APPLICABLE DEP STANDARDS.
- 6.2 BOREHOLE DIAMETER SHALL MEET DEP MINIMUM ANNULAR SPACE REQUIREMENTS.
- 6.3 THE CONTRACTOR SHALL DISPOSE OF DRILLING FLUID, CUTTINGS, AND DISCHARGED WATER IN A MANNER THAT IS CONSISTENT WITH APPLICABLE DEP REGULATIONS.
- 6.4 THE CONTRACTOR SHALL VERIFY BOREHOLE DEPTH PRIOR TO SETTING THE SCREEN AND CASING.
- 6.5 THE SCREEN AND CASING ASSEMBLY SHALL BE JOINED PROPERLY AND LOWERED INTO THE WELL. THE ASSEMBLY SHALL BE SUPPORTED SO THAT THE SCREEN BOTTOM IS SLIGHTLY ABOVE THE BOTTOM OF THE HOLE TO INSURE THAT THE ENTIRE ASSEMBLY IS UNDER TENSION DURING PLACEMENT OF THE FILTER PACK.
- 6.6 THE SCREEN AND CASING ASSEMBLY SHALL BE PROPERLY CENTERED IN THE BOREHOLE. ONE STAINLESS-STEEL CENTRALIZER SHALL BE PLACED ON THE BOTTOM OF THE SCREEN ASSEMBLY AND ONE STAINLESS-STEEL CENTRALIZER SHALL BE PLACED ON THE TOP OF THE SCREEN ASSEMBLY.
- 6.7 THE CONTRACTOR SHALL VERIFY THE OPEN DEPTH OF THE ANNULAR SPACE PRIOR TO PLACING THE FILTER PACK.
- 6.8 THE FILTER PACK SHALL BE PLACED BY THE TREMIE METHOD. THE TREMIE PIPE SHALL TERMINATE 5 FEET ABOVE THE BOTTOM OF THE HOLE OR ABOVE THE LEVEL OF THE FILTER PACK ALREADY PLACED IN THE HOLE. IT SHALL BE LIFTED GRADUALLY AND SECTIONS REMOVED AS THE LEVEL OF THE FILTER MATERIAL RISES. THE TOP OF THE TREMIE PIPE SHALL BE FITTED WITH FUNNEL FITTINGS SO THAT THE FILTER PACK CAN BE Poured INTO THE TREMIE. CLEAN WATER SHALL BE INTRODUCED INTO THE TREMIE ALONG WITH THE PACK MATERIAL IN ORDER TO REDUCE THE LIKELIHOOD OF BRIDGING OF THE PACK MATERIAL DURING PLACEMENT.
- 6.9 THE CONTRACTOR SHALL PERIODICALLY CHECK THE FILTER PACK LEVEL TO DETERMINE IF BRIDGING HAS OCCURRED AND TO ENSURE THAT THE FILTER PACK EXTENDS ABOVE THE TOP OF THE WELL SCREEN. THE FILTER PACK SHALL BE ALLOWED TO PROPERLY SETTLE PRIOR TO GROUTING. THE MINIMUM FILTER PACK LEVEL SHALL BE TEN FEET ABOVE THE TOP OF WELL SCREEN.
- 6.10 THE CONTRACTOR SHALL VERIFY THE OPEN DEPTH OF THE ANNULAR SPACE PRIOR TO GROUTING.
- 6.11 GROUTING SHALL BE DONE BY THE TREMIE PIPE METHOD.
- 6.12 GROUTING SHALL BE CARRIED OUT IN ONE CONTINUOUS OPERATION, FILLING THE ANNULAR SPACE BETWEEN THE DRILLED HOLE AND THE CASING, FROM THE TOP OF THE BENTONITE PLUG TO THE LAND SURFACE. THE GROUT RETURNING TO THE SURFACE SHALL BE WASTED UNTIL IT IS DETERMINED THAT THE GROUTING IS SATISFACTORY.

7. WELL DEVELOPMENT

- 7.1 THE DEVELOPMENT OF THE WELL SHALL REMOVE THE NATIVE SILTS AND CLAYS AND DRILLING FLUID RESIDUES DEPOSITED ON THE BOREHOLE FACE AND IN ADJACENT PORTIONS OF THE AQUIFER DURING THE DRILLING PROCESS. DEVELOPMENT SHALL ALSO REMOVE A PREDETERMINED FINE FRACTION OF THE FILTER PACK. IF ORGANIC DRILLING FLUIDS ARE USED, THEY MUST BE BROKEN DOWN CHEMICALLY ACCORDING TO MANUFACTURER'S RECOMMENDATIONS BEFORE OR DURING DEVELOPMENT.
- 7.2 THE DEVELOPMENT PROCESS SHALL BE CARRIED OUT EITHER BY:
 - 1) MECHANICAL SURGING AND SIMULTANEOUS AIR-LIFT PUMPING; OR
 - 2) BY HIGH-PRESSURE JETTING WITH SIMULTANEOUS AIR-LIFT PUMPING.
- 7.3 THE PROPOSED DEVELOPMENT PROCESS SHALL BE SPECIFIED IN THE CONTRACTOR'S BID SUBMITTAL.
- 7.4 THE WELL SHALL BE DEVELOPED FOR A MINIMUM PERIOD OF SIX HOURS (CONTINUOUS DEVELOPMENT ACTIVITY). THE CONTRACTOR SHALL SPECIFY THEIR COST FOR ADDITIONAL DEVELOPMENT TIME, AS MAY BE REQUESTED.

8. CAPPING WELL

- 8.1 DURING WELL CONSTRUCTION AND COMPLETION, THE CONTRACTOR SHALL USE ALL REASONABLE MEASURES TO PREVENT THE ENTRANCE OF FOREIGN MATTER INTO THE WELL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY OBJECTIONABLE MATERIAL THAT MAY FALL INTO THE WELL AND ANY EFFECT IT MAY HAVE ON WATER QUALITY OR WELL PERFORMANCE UNTIL COMPLETION AND ACCEPTANCE OF THE WORK BY THE OWNER.
- 8.2 GUARANTEES
 - 8.2.1 THE CONTRACTOR SHALL GUARANTEE THAT ALL MATERIALS, EQUIPMENT, STRUCTURES, AND WORK PERFORMED ARE FREE FROM DEFECTS IN WORKMANSHIP OR MATERIALS FOR A PERIOD OF ONE YEAR AFTER COMPLETION AND ACCEPTANCE BY THE OWNER, AND IF ANY PART OF THE WORK SHALL FAIL WITHIN THIS PERIOD, IT SHALL BE REPLACED AND THE UNIT RESTORED TO OPERATION AT NO ADDITIONAL COST.

10. RECORDS

- 10.1. A COPY OF EACH STATE DRILLING PERMIT AND STATE WELL COMPLETION RECORD SHALL BE GIVEN TO THE OWNER UPON COMPLETION OF THE WORK. IN ADDITION, A COPY OF THE WELL CAPPING PERMIT AND COMPLETION RECORD SHALL BE PROVIDED TO THE OWNER AND STATE OR LOCAL REGULATORY AGENCIES.

NO.	REVISIONS	DATE	BY

Kimley-Horn
 200 CENTRAL AVENUE, SUITE 600
 ST. PETERSBURG, FL 33701
 PHONE: 727-561-9899
 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
JENNIFER L. DAQUILA, P.L.A.
 FLORIDA LICENSE NUMBER
6667369

KHA PROJECT	DATE	SCALE	DRAWN BY	CHECKED BY	JUL	DATE
14R651002	JANUARY 2023	AS SHOWN	KHA	KHA		

IRRIGATION NOTES

**HIGHWAY 82
 MULTI-FAMILY
 PREPARED FOR
 MILHAUS DEVELOPMENT,
 LLC**
 CITY OF FORT MYERS
 FLORIDA

SHEET NUMBER
I-09

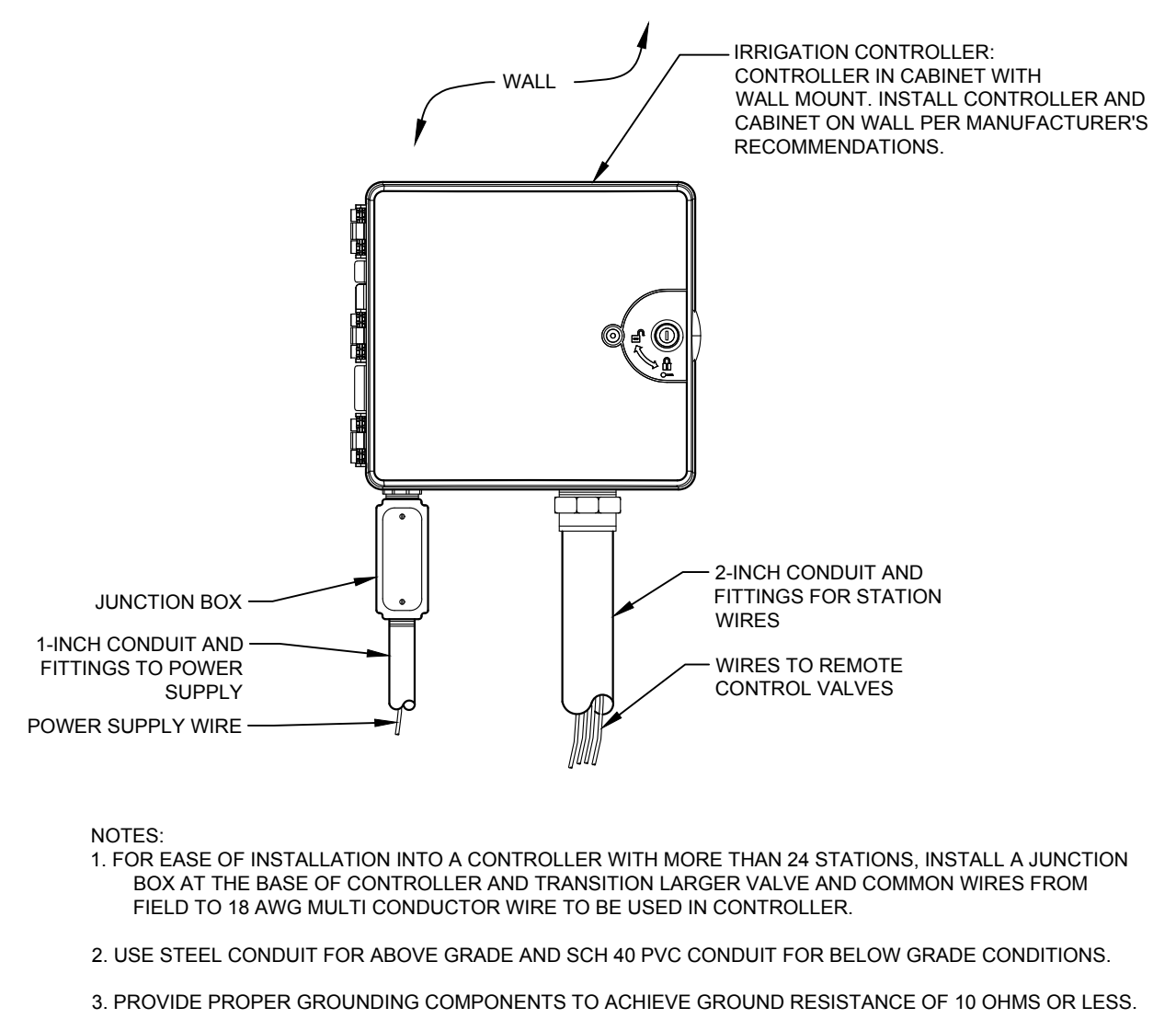
GMP SET - NOT FOR CONSTRUCTION

CALL 2 WORKING DAYS BEFORE YOU DIG

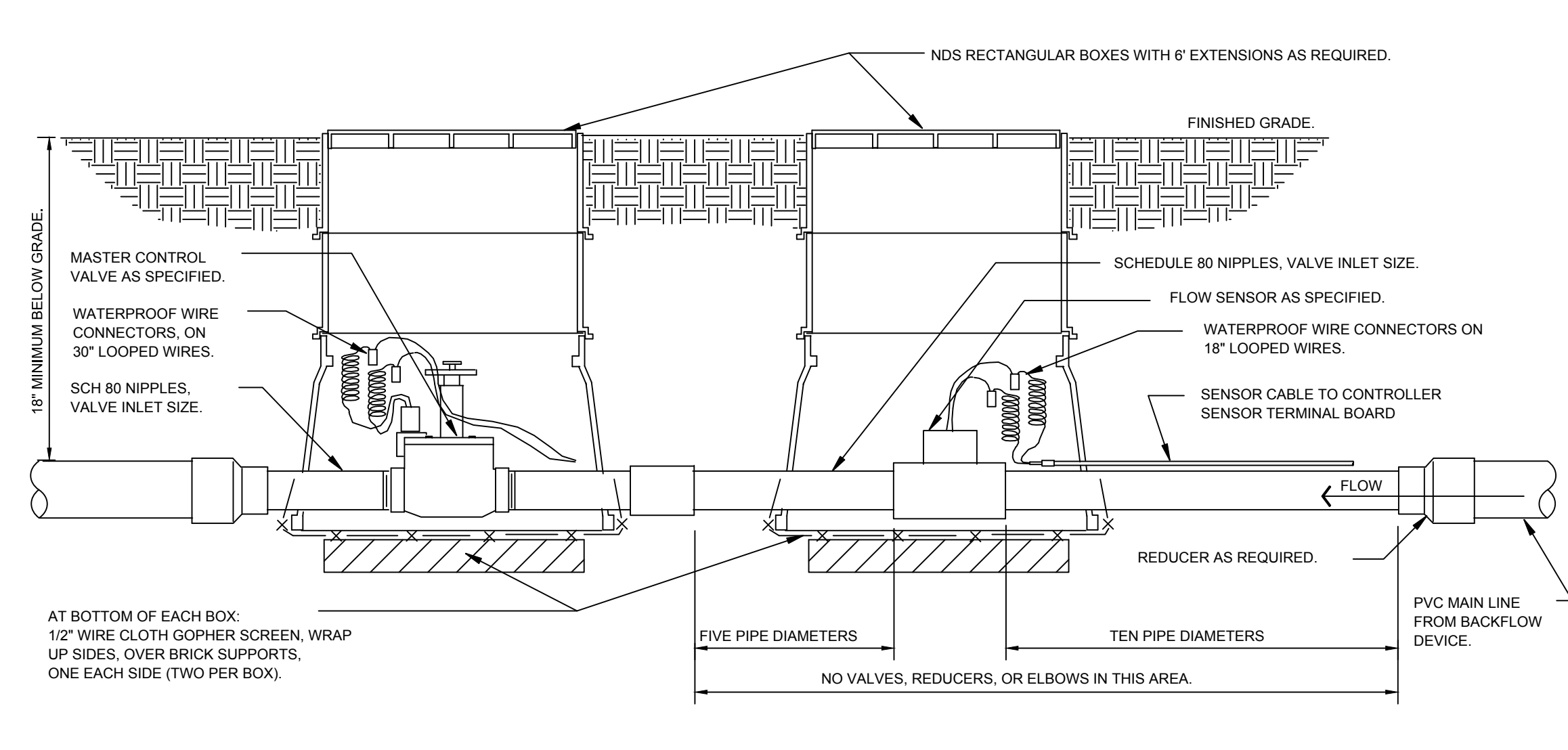
IT'S THE LAW!
 DIAL 811
 Know what's below. Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

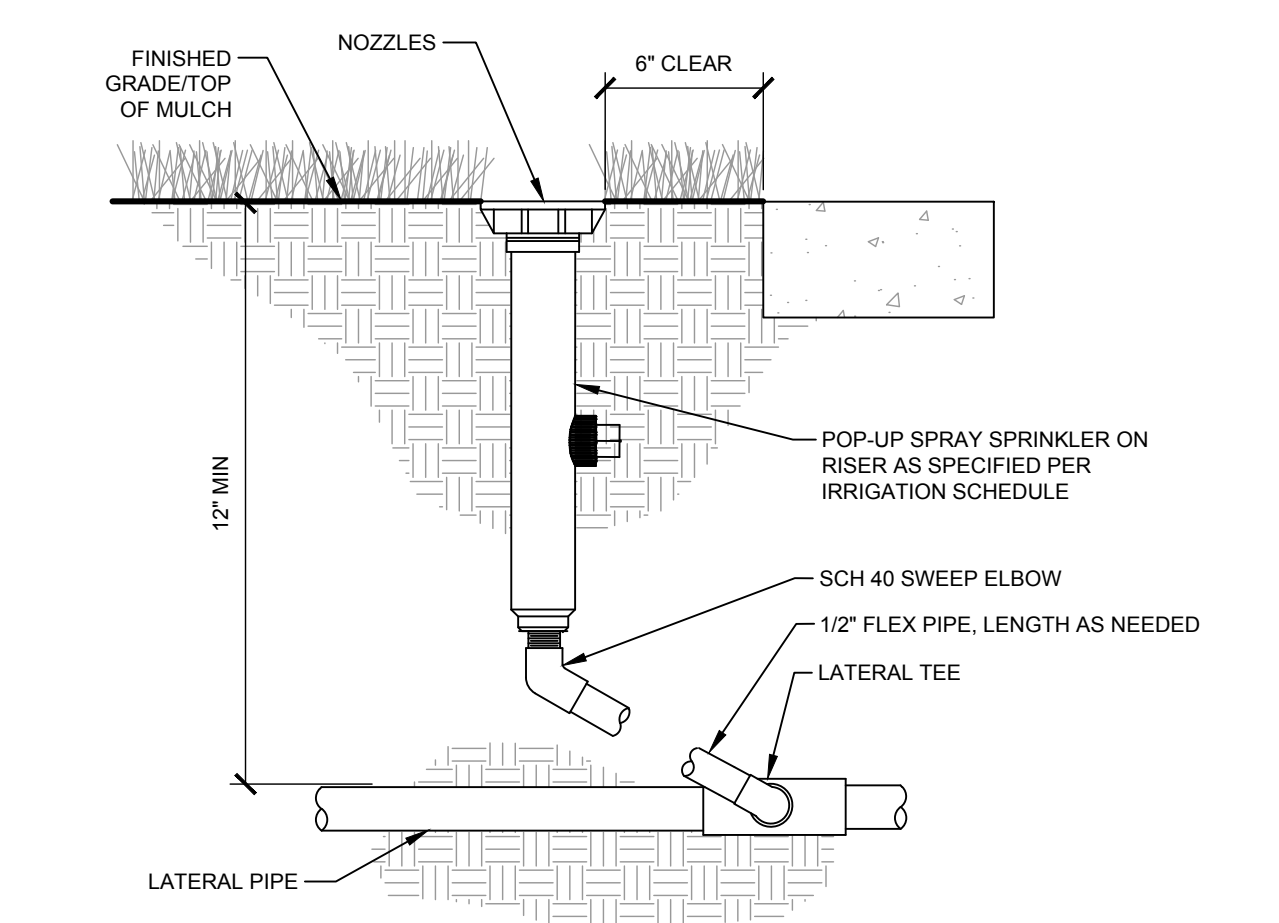
Printed By: Braud, Jessica. Sheet Set: Kh5. Layout: NOTES. January 05, 2023 08:16:54pm. K:\Info_south\14R651002_milhaus_sf_82_rezoning_s_silo_planning\Cad\plans\sheetset01_ IRRIGATION INDEX.dwg
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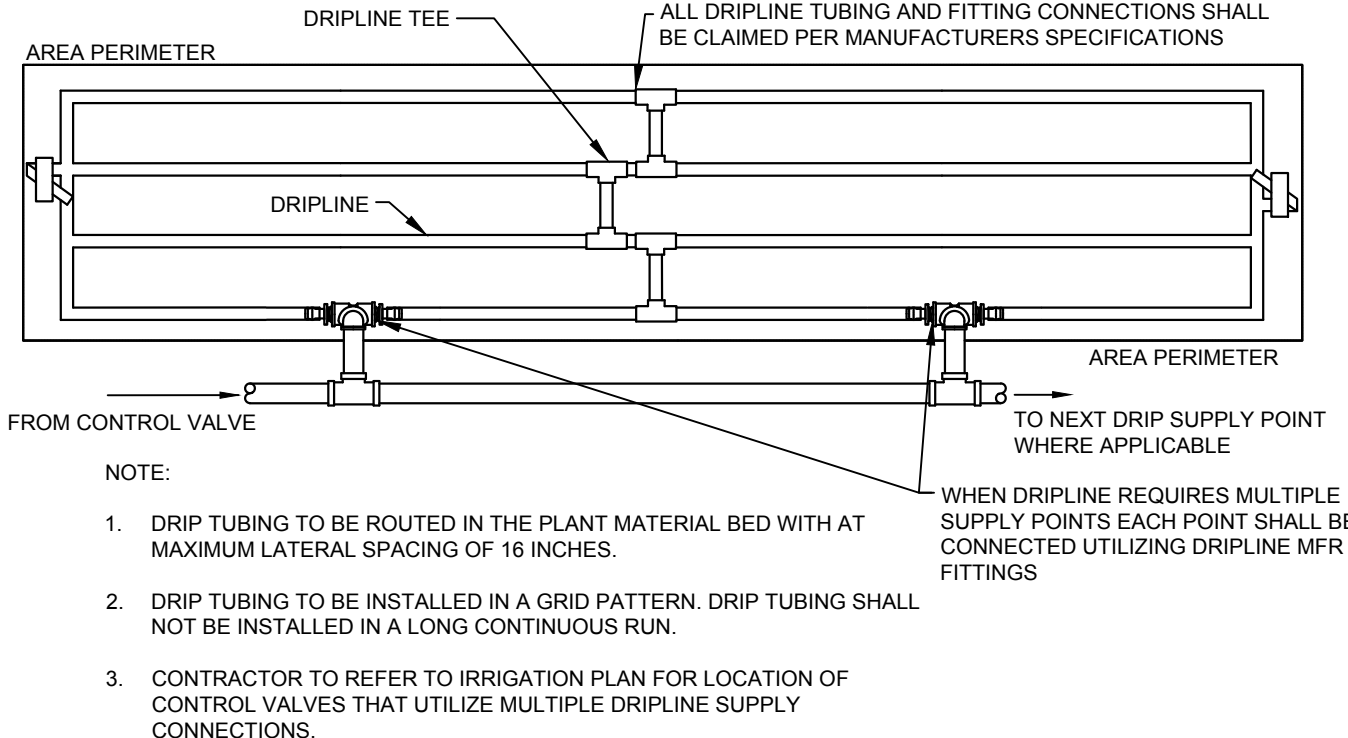
1 IRRIGATION CONTROLLER - WALL MOUNT
1-10 ELEVATION NTS



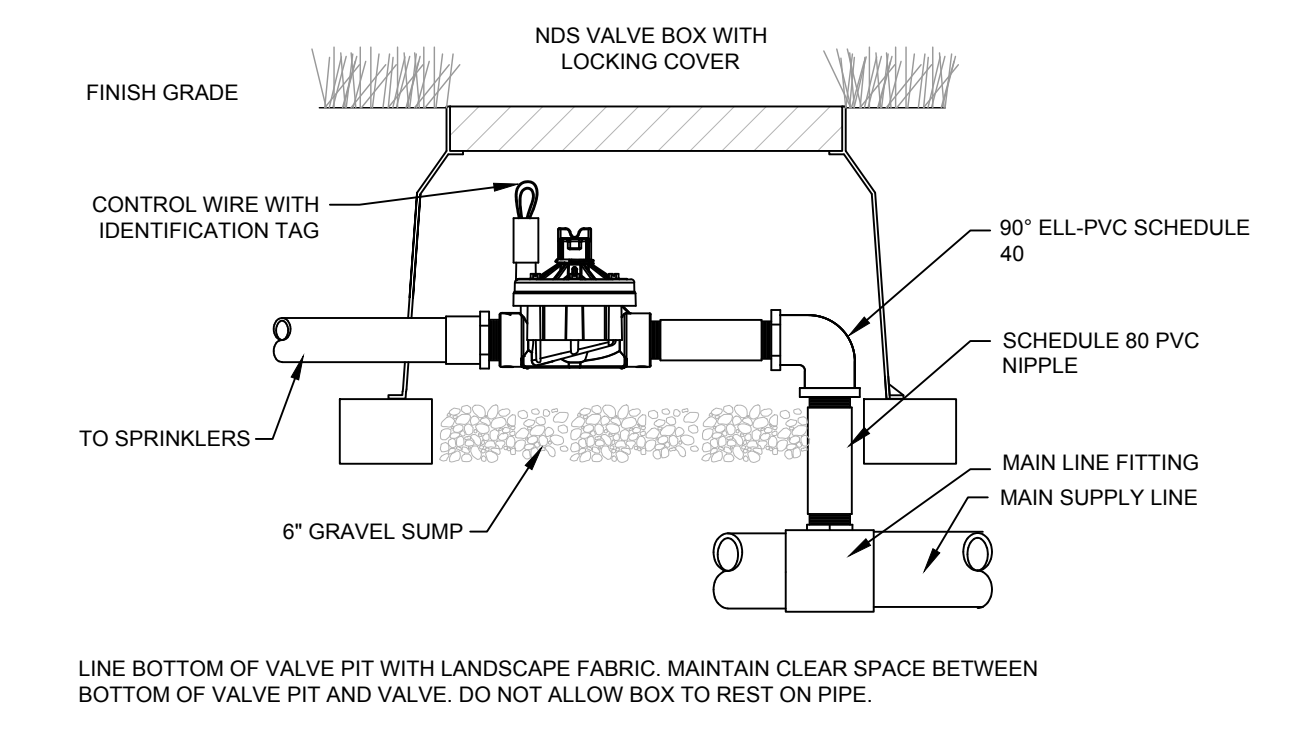
2 MASTER CONTROL VALVE / FLOW SENSOR ASSEMBLY
1-10 SECTION NTS



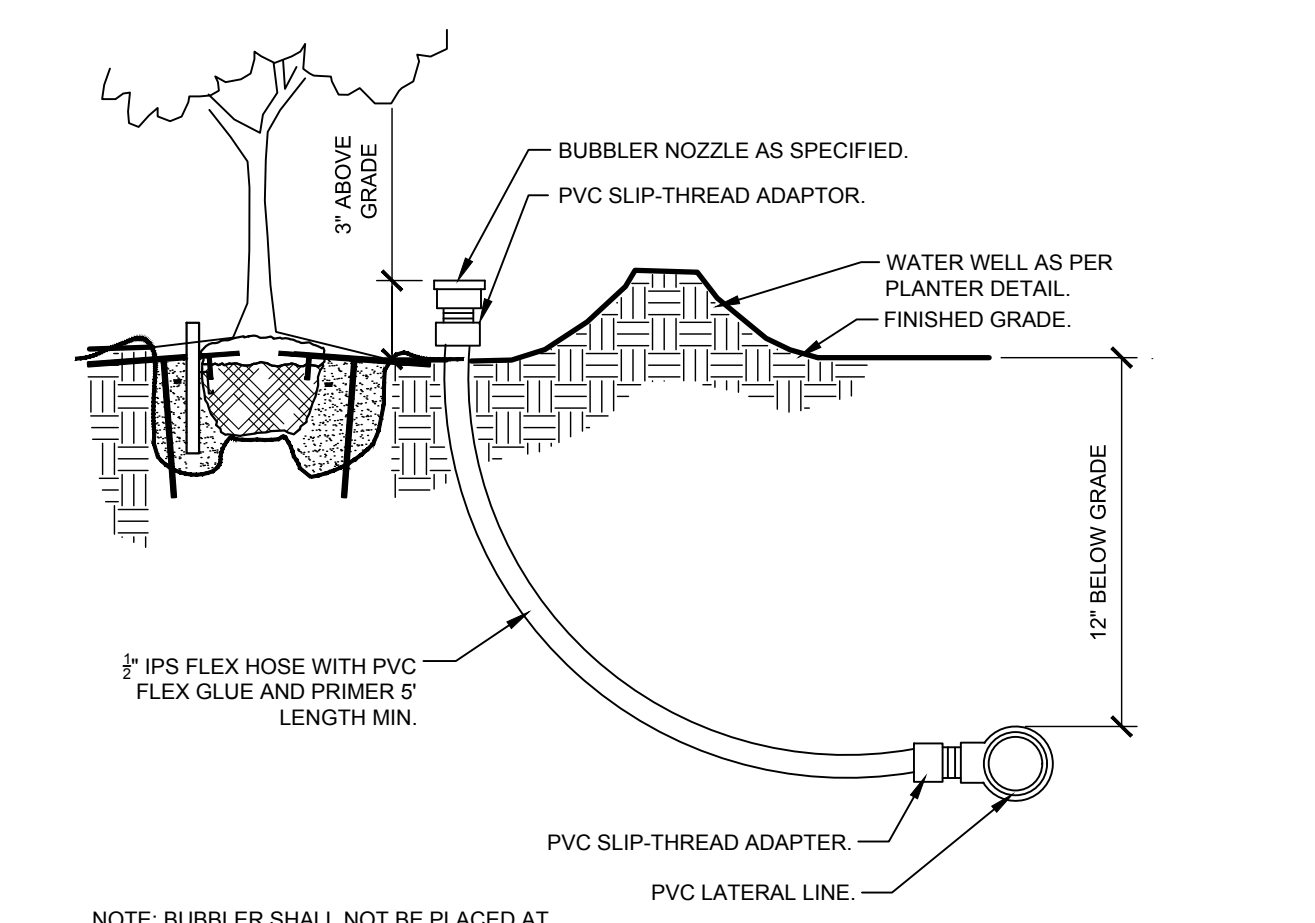
3 TYPICAL SPRAY / ROTAR HEAD
1-10 SECTION NTS



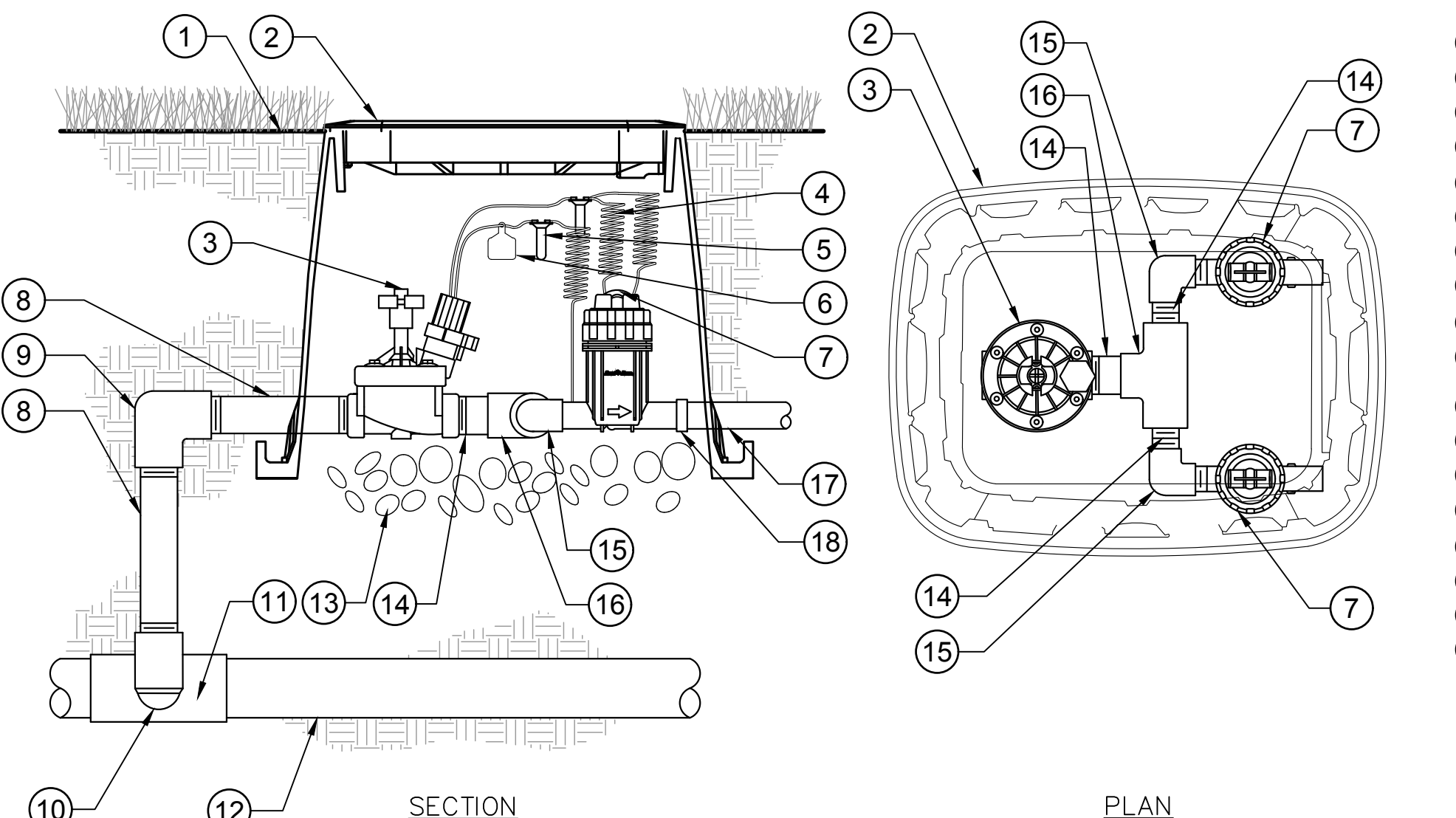
4 TYPICAL DRIPLINE
1-10 PLAN NTS



5 TYPICAL CONTROL VALVE
1-10 SECTION NTS

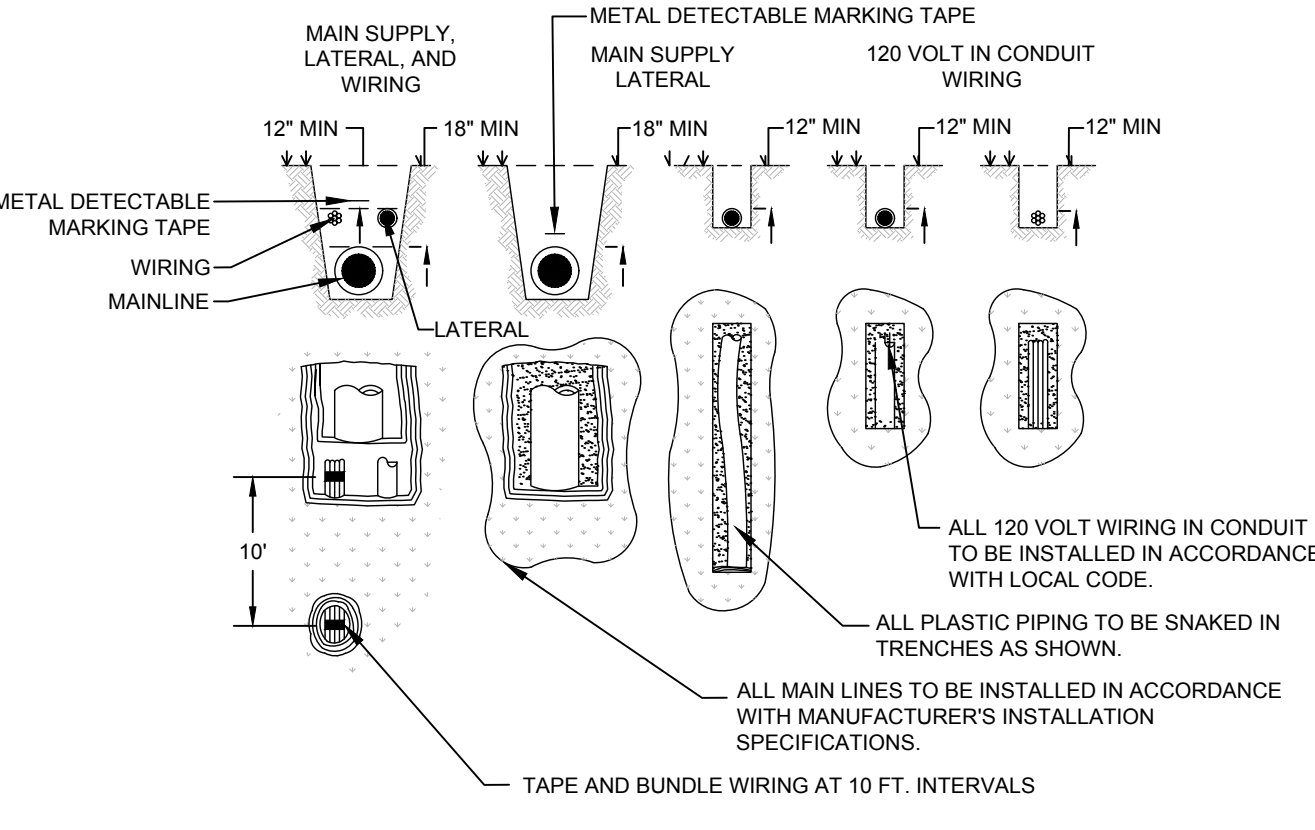


6 TYPICAL BUBBLER
1-10 SECTION NTS

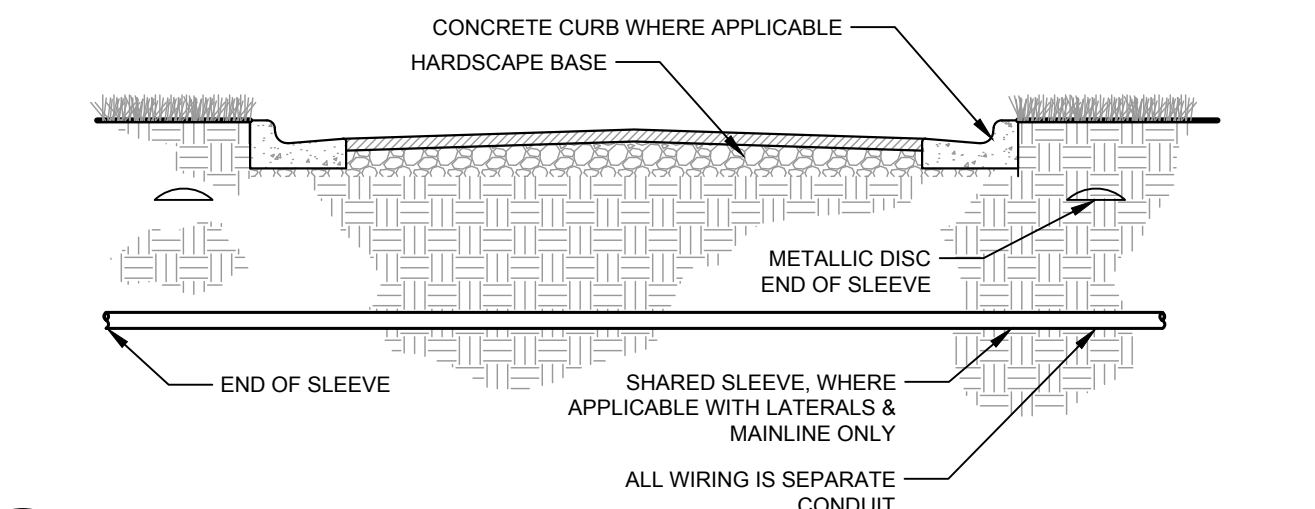


7 DRIP ZONE VALVE KIT
1-10 SECTION / PLAN NTS

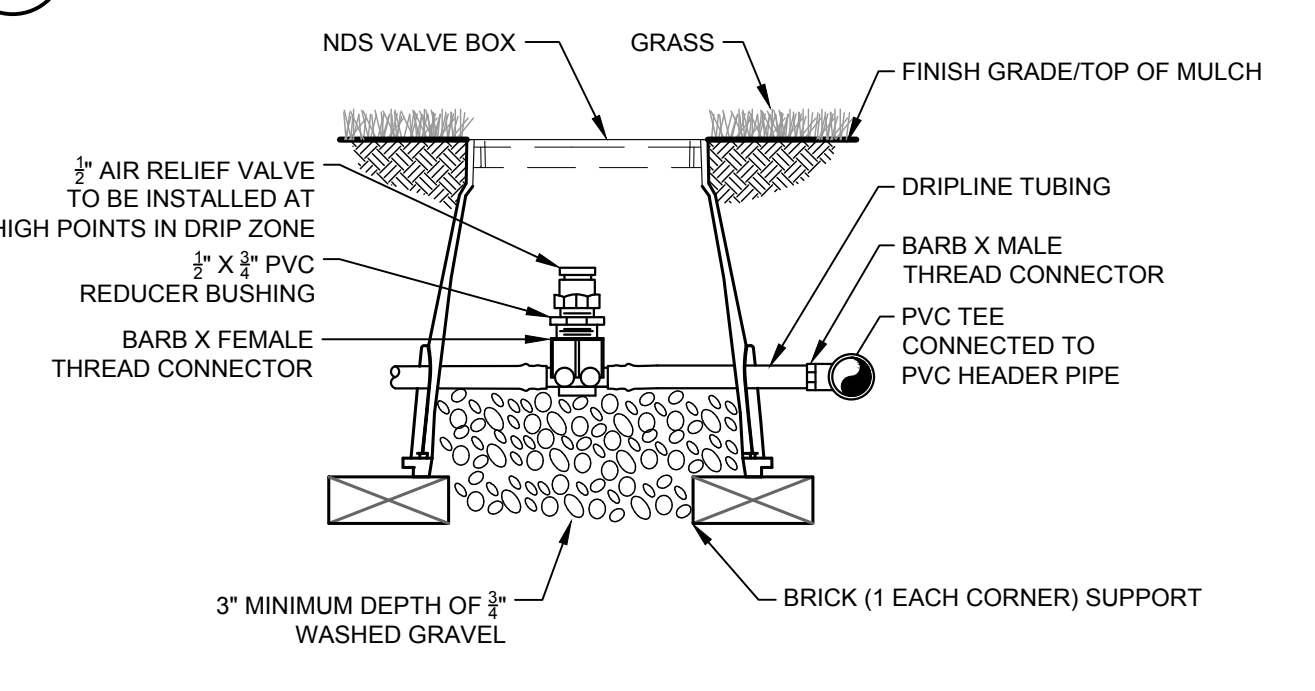
- 1 FINISH GRADE/TOP OF MULCH
- 2 VALVE BOX WITH LOCKING COVER
- 3 REMOTE CONTROL VALVE
- 4 30-INCH LINEAR LENGTH OF WIRE, COILED
- 5 WATERPROOF CONNECTION
- 6 ID TAG
- 7 PRESSURE REGULATING QUICK CHECK BASKET FILTER
- 8 PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
- 9 PVC SCH 40 ELL
- 10 PVC SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 ELL
- 11 PVC SCH 40 TEE OR ELL
- 12 MAINLINE PIPE
- 13 6-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
- 14 PVC SCH 80 NIPPLE, CLOSE
- 15 PVC SCH 40 ELL
- 16 PVC SCH 40 TEE
- 17 LATERAL PIPE
- 18 PVC SCH 40 FEMALE ADAPTOR



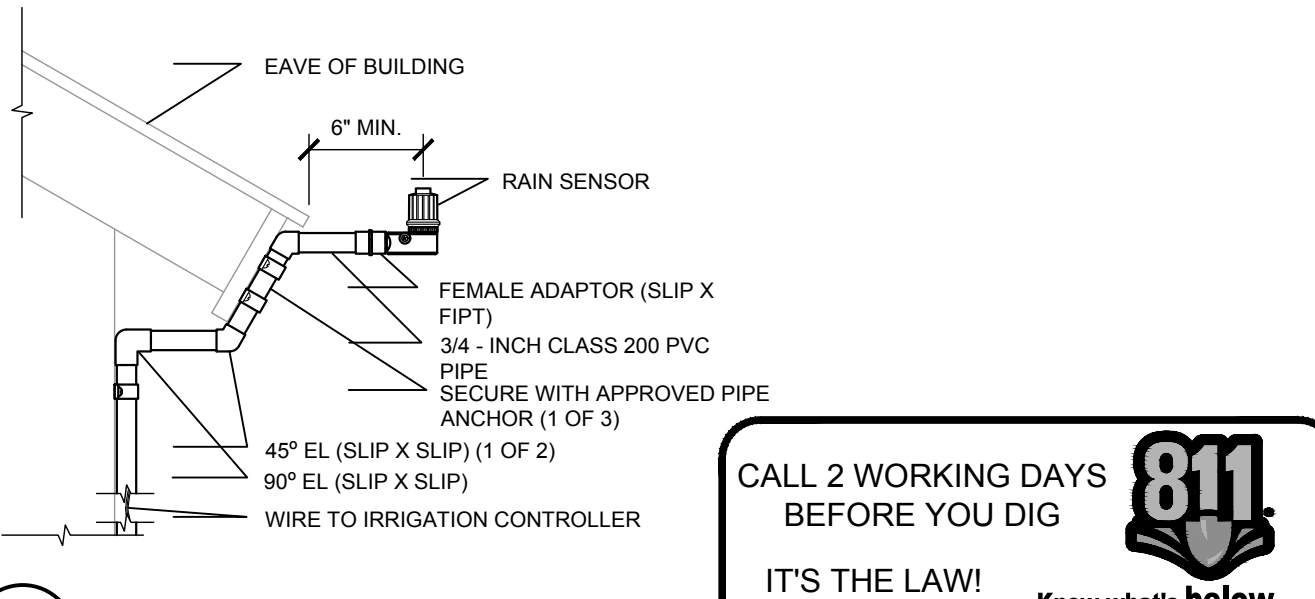
8 TYPICAL TRENCHING
1-10 SECTION NTS



9 TYPICAL SLEEVING
1-10 SECTION NTS



10 AIR RELIEF VALVE IN DRIPLINE
1-10 SECTION NTS



11 RAIN SENSOR - BUILDING MOUNT
1-10 SECTION NTS

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SUNSHINE STATE CONSTRUCTION

Printed By: Brenda, Jessica, Sheet Details, Layout Details, January 05, 2023, 08:18:55pm, Kim, c:\wt\148651002 - milhaus s2 62, reworking & site planning\Carb\148651002-1 IRRIGATION INDEX.dwg
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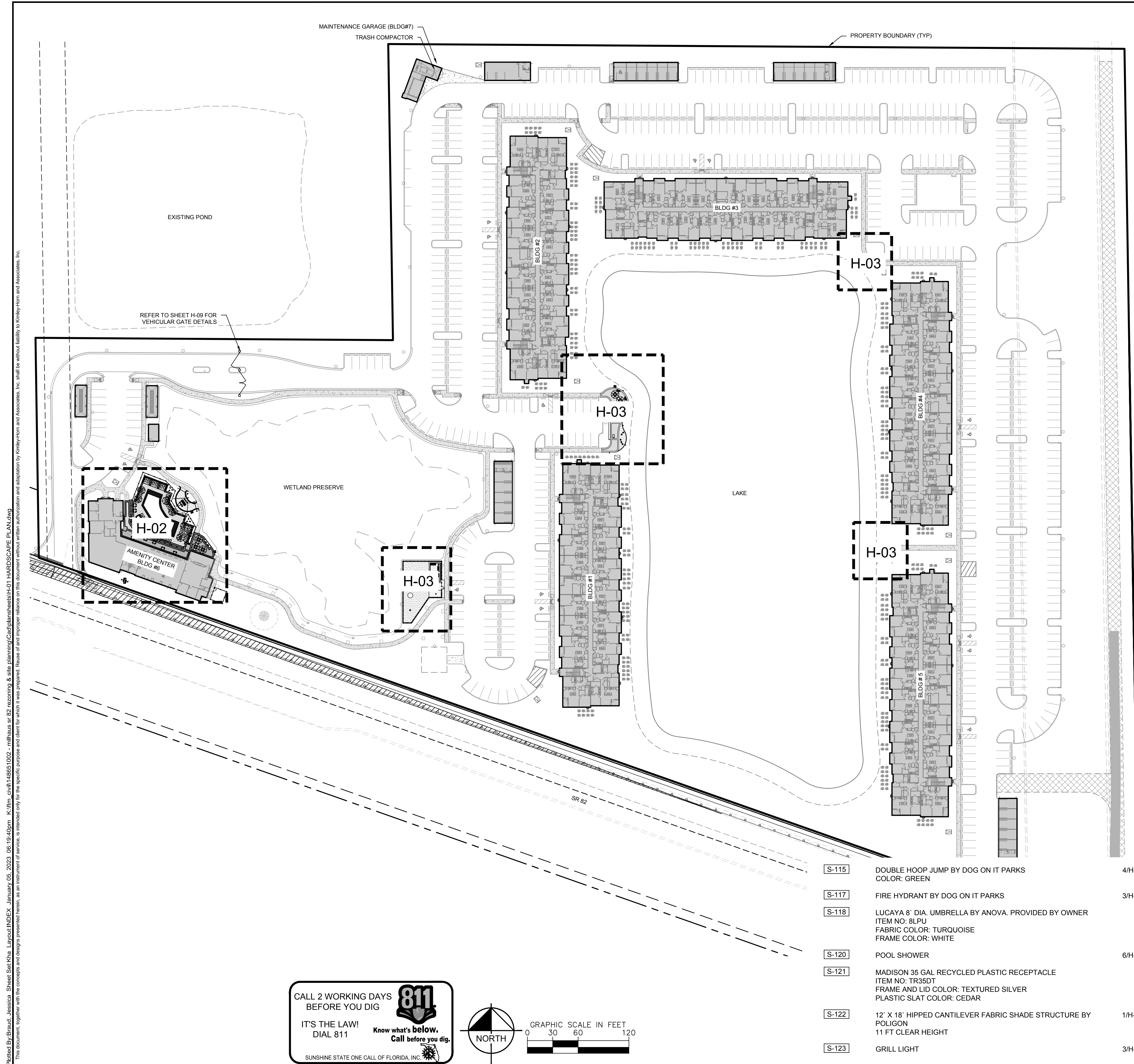
NO.	REVISIONS	DATE	BY

Kimley-Horn
 LICENSED PROFESSIONAL
 JENNIFER L. DAOUAS P.L.A.
 200 CENTRAL AVENUE, SUITE 600
 ST. PETERSBURG, FL 33701
 PHONE: 727-581-9899
 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106
 FLORIDA LICENSE NUMBER
 6667369

KHA PROJECT	DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	JLD	DATE
148651002	JANUARY 2023	AS SHOWN	KHA	KHA	KHA		

IRRIGATION DETAILS

HIGHWAY 82 MULTI-FAMILY
 PREPARED FOR
MILHAUS DEVELOPMENT, LLC
 CITY OF FORT MYERS, FLORIDA
 SHEET NUMBER
I-10



REFERENCE NOTES SCHEDULE

SYMBOL	METAL DESCRIPTION	DETAIL
F-301	5' HT POOL FENCE BY BARFIELD FENCE AND FABRICATION COLOR: POWDER COATED BLACK	1/H-04
F-302	4'-6" HT DOG PARK FENCE BY BARFIELD FENCE AND FABRICATION COLOR: POWDER COATED BLACK	5/H-07
F-303	5' HT GLASS RAILING BY ATR TECHNOLOGIES, INC. CLEAR GLASS PANELS WITH BLACK ALUMINUM FRAME	
SYMBOL	METAL GATE DESCRIPTION	DETAIL
G-301	6' HT POOL GATE BY BARFIELD FENCE AND FABRICATION COLOR: POWDER COAT BLACK	2/H-04
G-302	4'-6" HT DOG PARK SINGLE GATE BY BARFIELD FENCE AND FABRICATION COLOR: POWDER COATED BLACK	6/H-07
SYMBOL	LIGHTING DESCRIPTION	DETAIL
L-101	UPLIGHT BY VISTA PROFESSIONAL OUTDOOR LIGHTING STANDARD MODEL NO: 1045 BLACK FINISH	2/H-08
L-102	LIGHT BOLLARD BY LITHONIA LIGHTING MODEL NO: KBR8 LED BLACK FINISH	1/H-08
L-103	FESTOON LIGHTING BY CELESTIAL LIGHTING HYDRA STL SERIES, 120V EXTERIOR LED LIGHT STRING MOUNTED AT 12FT HEIGHT	3/H-08
L-104	SIGN UPLIGHT BY VISTA PROFESSIONAL OUTDOOR LIGHTING MODEL NO: 5106 BLACK FINISH	4/H-08
L-105	14" TALL 4" X 4" BLACK ALUMINUM POST WITH FESTOON LIGHTING HARDWARE BY GARDCO. PRODUCT NUMBER: SSA4-HB-12 CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW.	8/H-06
L-106	RISE TREE MOUNT BY ECOSENSE LIGHTING FOR FESTOON LIGHTING. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW.	5/H-08
SYMBOL	CONCRETE DESCRIPTION	DETAIL
P-101	16" X 16" OCEANSIDE PAVER BY BELGARD COLOR: WHITE	1/H-06
P-102	4" X 8" CONCRETE PAVER BY BELGARD COLOR: PEWTER DOUBLE SOLDIER COURSE BAND	1/H-06
P-103	4" X 8" CONCRETE PAVER BY BELGARD COLOR: PEWTER SOLDIER COURSE BAND	1/H-06
P-104	3 PIECE CATALINA GRANA PAVER BY BELGARD COLOR: TITANIUM	1/H-06
P-105	CRUSHED SHELL, WASHED WHITE	3/H-06
P-106	STANDARD CONCRETE, LIGHT BROOM FINISH	2/H-06
P-107	1-3" WHITE RIVER ROCK	
P-108	NATURAL GRAY CONCRETE WITH EXPOSED AGGREGATE FINISH	
P-109	CLASSIC K9 TURF BY FOREVER LAWN	1/H-07
SYMBOL	SITE FURNISHINGS DESCRIPTION	DETAIL
S-101	BEACON HILL RECYCLED PLASTIC 6" CONTOUR BENCH BT ANOVA. PROVIDED BY OWNER ITEM NO: SH1880R PLASTIC SLAT COLOR: CEDAR FRAME COLOR: TEXTURED SILVER	
S-102	DOG WATER FOUNTAIN WITH WASH DOWN BY STERN WILLIAMS MODEL NO:9000-66-SS	2/H-07
S-104	CHAISE LOUNGE. PROVIDED BY OWNER	
S-105	DINING SET BY ANOVA. PROVIDED BY OWNER TABLE ITEM NO: ST3030-S CHAIR ITEM NO: CSC01 CHAIR COLOR: BRIGHT WHITE	
S-106	ADIRONDACK CHAIR. PROVIDED BY OWNER	
S-107	CONCRETE SEAT WALL	6/H-06
S-109	ELECTRIC PEDESTAL GRILL BY COYOTE OUTDOOR LIVING MODEL: C1EL120SM + C1ELCT21	1/H-05
S-110	ELECTRIC BUILT IN GRILL BY COYOTE OUTDOOR LIVING MODEL NO: C1EL120SM	1/H-05
S-111	CORONADO FIRE PIT BY THE OUTDOOR PLUS, 84" COLOR: GRAY	3/H-04
S-112	8' X 8' PERGOLA BY HAUSER SITE FURNITURE ALUMINUM SLAT ROOF, 2" X 4", HORIZONTAL FINISH: PEWTER	4/H-04
S-113	CONCRETE CORN HOLE BY ANOVA ITEM NO: BYOB531	4/H-06
S-114	WILSHIRE COLLECTION RECTANGULAR PLANTER BY TOURNESOL SITWORKS PRODUCT NO: WR-961284	5/H-04
S-115	DOUBLE HOOP JUMP BY DOG ON IT PARKS COLOR: GREEN	4/H-07
S-117	FIRE HYDRANT BY DOG ON IT PARKS	3/H-07
S-118	LUCAYA 8" DIA. UMBRELLA BY ANOVA. PROVIDED BY OWNER ITEM NO: 8LPU FABRIC COLOR: TURQUOISE FRAME COLOR: WHITE	
S-120	POOL SHOWER	6/H-04
S-121	MADISON 35 GAL RECYCLED PLASTIC RECEPTACLE ITEM NO: TR36DT FRAME AND LID COLOR: TEXTURED SILVER PLASTIC SLAT COLOR: CEDAR	
S-122	12' X 18" HIPPED CANTILEVER FABRIC SHADE STRUCTURE BY POLYGON 11 FT CLEAR HEIGHT	1/H-10
S-123	GRILL LIGHT	3/H-05

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GRAPHIC SCALE IN FEET
 0 30 60 120
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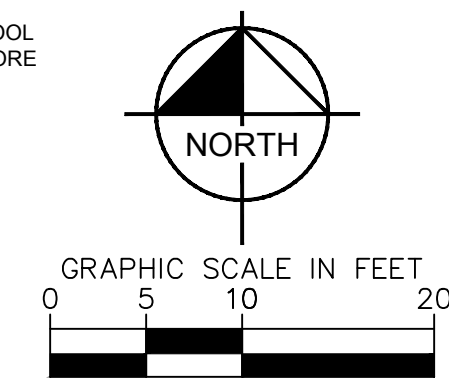
		LICENSED PROFESSIONAL JENNIFER L. DAOUAS P.L.A. 200 CENTRAL AVENUE, SUITE 600 ST. PETERSBURG, FL 33701 PHONE: 727-581-9899 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106 FLORIDA LICENSE NUMBER: 6667369	
KHA PROJECT 148651002	DATE JANUARY 2023	SCALE AS SHOWN	DESIGNED BY KHA
	DRAWN BY KHA	CHECKED BY JLD	DATE
HARDSCAPE INDEX			
HIGHWAY 82 MULTI-FAMILY PREPARED FOR MILHAUS DEVELOPMENT, LLC CITY OF FORT MYERS FLORIDA			
SHEET NUMBER H-01			REVISIONS No. DATE BY

GMP SET - NOT FOR CONSTRUCTION

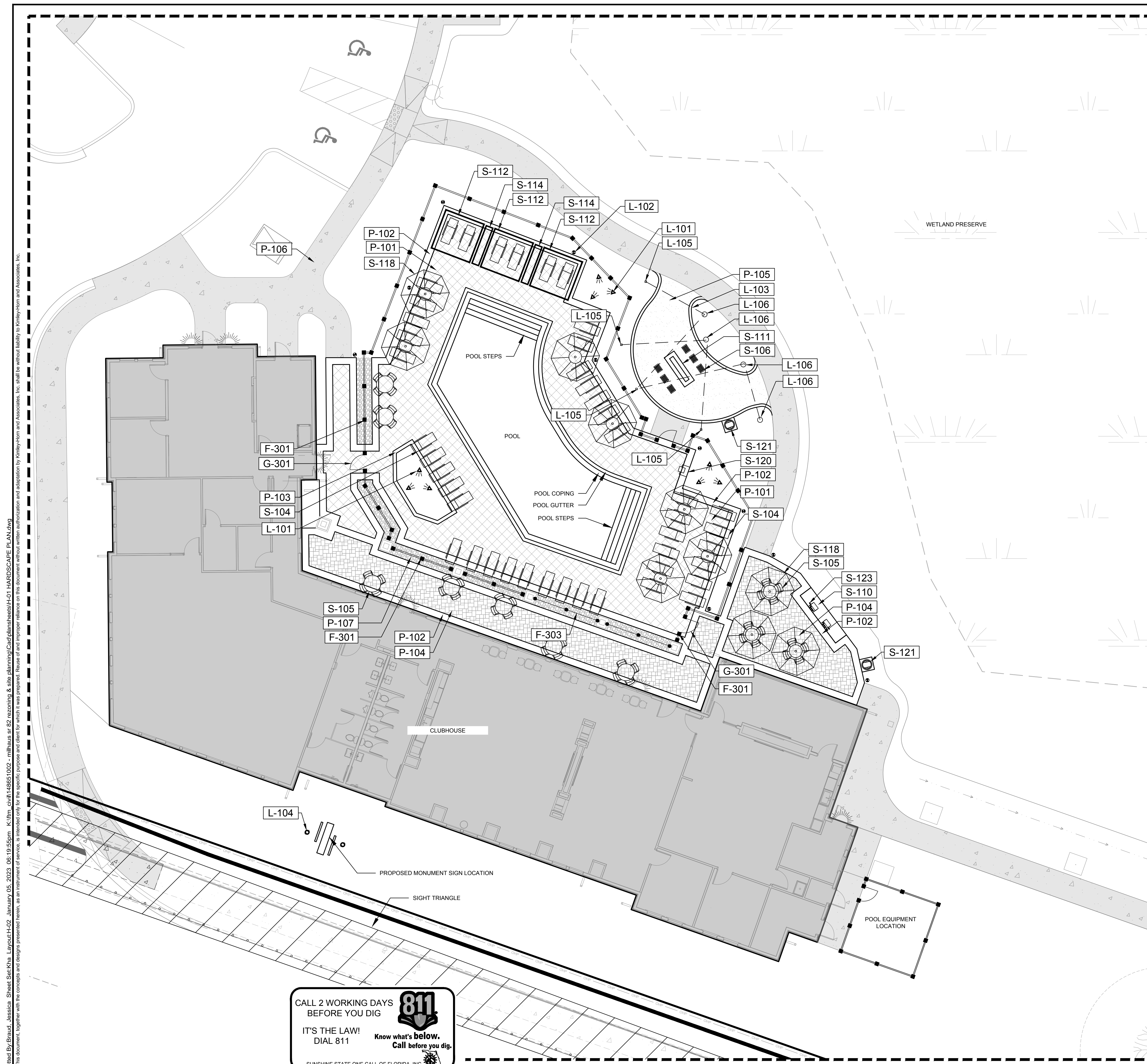
REFERENCE NOTES SCHEDULE - AMENITY

SYMBOL	METAL DESCRIPTION
F-301	5' HT POOL FENCE BY BARFIELD FENCE AND FABRICATION COLOR: POWDER COATED BLACK
F-303	5' HT GLASS RAILING BY ATR TECHNOLOGIES, INC. CLEAR GLASS PANELS WITH BLACK ALUMINUM FRAME
SYMBOL	METAL GATE DESCRIPTION
G-301	6' HT POOL GATE BY BARFIELD FENCE AND FABRICATION COLOR: POWDER COAT BLACK
SYMBOL	LIGHTING DESCRIPTION
L-101	UPLIGHT BY VISTA PROFESSIONAL OUTDOOR LIGHTING STANDARD MODEL NO: 1045 BLACK FINISH
L-102	LIGHT BOLLARD BY LITHONIA LIGHTING MODEL NO: KBR8 LED BLACK FINISH
L-103	FESTOON LIGHTING BY CELESTIAL LIGHTING HYDRA STL SERIES, 120V EXTERIOR LED LIGHT STRING MOUNTED AT 12FT HEIGHT
L-104	SIGN UPLIGHT BY VISTA PROFESSIONAL OUTDOOR LIGHTING MODEL NO: 5106 BLACK FINISH
L-105	14" TALL 4" X 4" BLACK ALUMINUM POST WITH FESTOON LIGHTING HARDWARE BY GARDCO. PRODUCT NUMBER: SSA4-HB-12 CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW.
L-106	RISE TREE MOUNT BY ECOSENSE LIGHTING FOR FESTOON LIGHTING. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW.
SYMBOL	CONCRETE DESCRIPTION
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P-102	4" X 8" CONCRETE PAVER BY BELGARD COLOR: PEWTER DOUBLE SOLDIER COURSE BAND
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P-104	3 PIECE CATALINA GRANA PAVER BY BELGARD COLOR: TITANIUM
P-105	CRUSHED SHELL, WASHED WHITE
P-106	STANDARD CONCRETE, LIGHT BROOM FINISH
P-107	1-3" WHITE RIVER ROCK
SYMBOL	SITE FURNISHINGS DESCRIPTION
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S-105	DINING SET BY ANOVA. PROVIDED BY OWNER TABLE ITEM NO: ST3030-S CHAIR ITEM NO: CSC01 CHAIR COLOR: BRIGHT WHITE
S-106	ADIRONDACK CHAIR. PROVIDED BY OWNER
S-110	ELECTRIC BUILT IN GRILL BY COYOTE OUTDOOR LIVING MODEL NO: C1EL120SM
S-111	CORONADO FIRE PIT BY THE OUTDOOR PLUS, 84" COLOR: GRAY
S-112	8' X 8' PERGOLA BY HAUSER SITE FURNITURE ALUMINUM SLAT ROOF, 2" X 4", HORIZONTAL FINISH: PEWTER
S-114	WILSHIRE COLLECTION RECTANGULAR PLANTER BY Tournesol SITEWORKS PRODUCT NO: WR-961284 96" L X 18" W X 24" H COLOR: SMOKE
S-118	LUCAYA 8' DIA. UMBRELLA BY ANOVA. PROVIDED BY OWNER ITEM NO: 8LPU FABRIC COLOR: TURQUOISE FRAME COLOR: WHITE
S-120	POOL SHOWER
S-121	MADISON 35 GAL RECYCLED PLASTIC RECEPTACLE ITEM NO: TR35DT FRAME AND LID COLOR: TEXTURED SILVER PLASTIC SLAT COLOR: CEDAR
S-123	GRILL LIGHT

NOTE: THE HARDSCAPE SURFACE WITHIN 4 FEET OF THE POOL COPING SHALL NOT CONTAIN ANY CREVICES OR PITS OF MORE THAN 3/16 INCH (4.8MM) DEEP.



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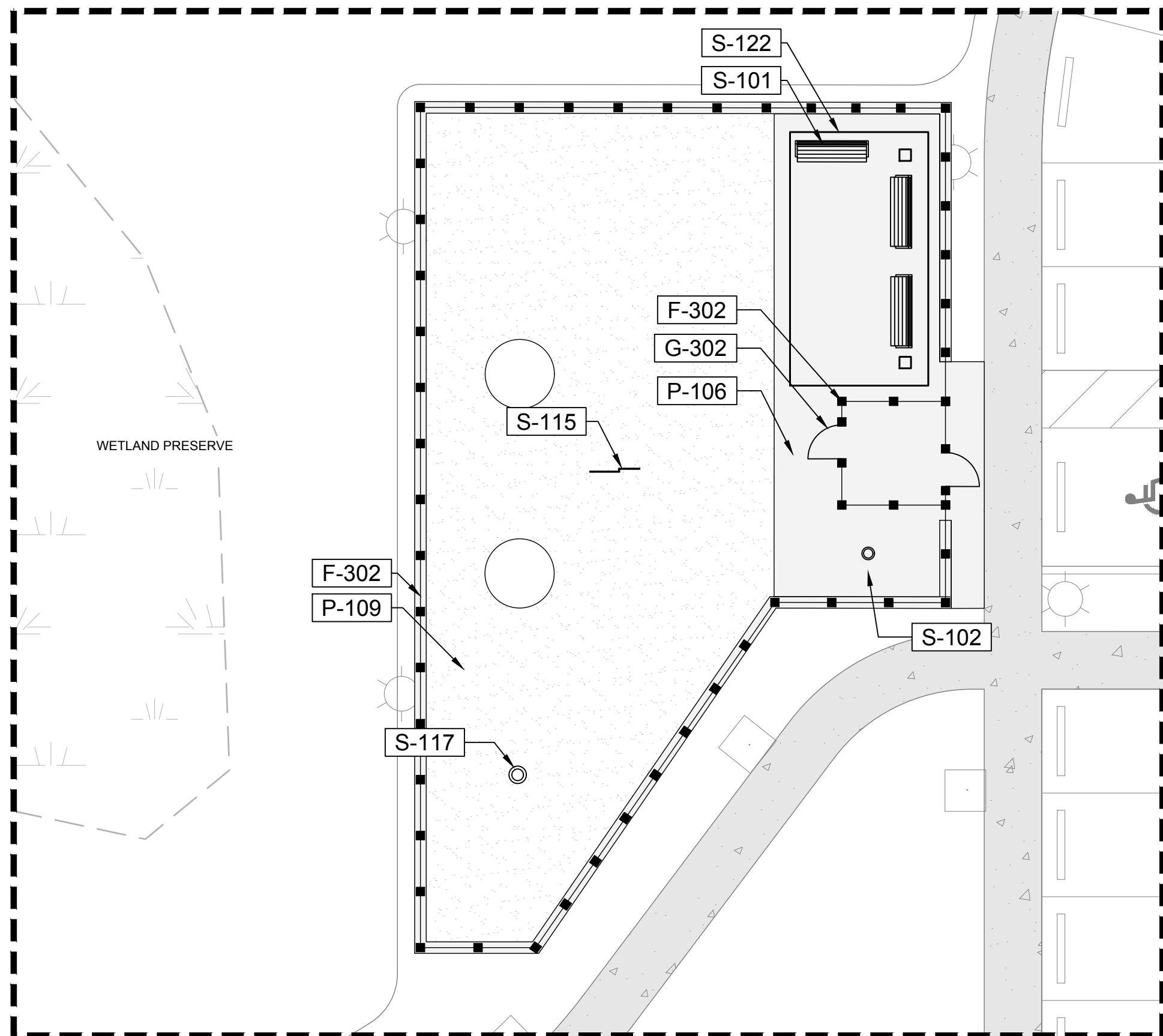


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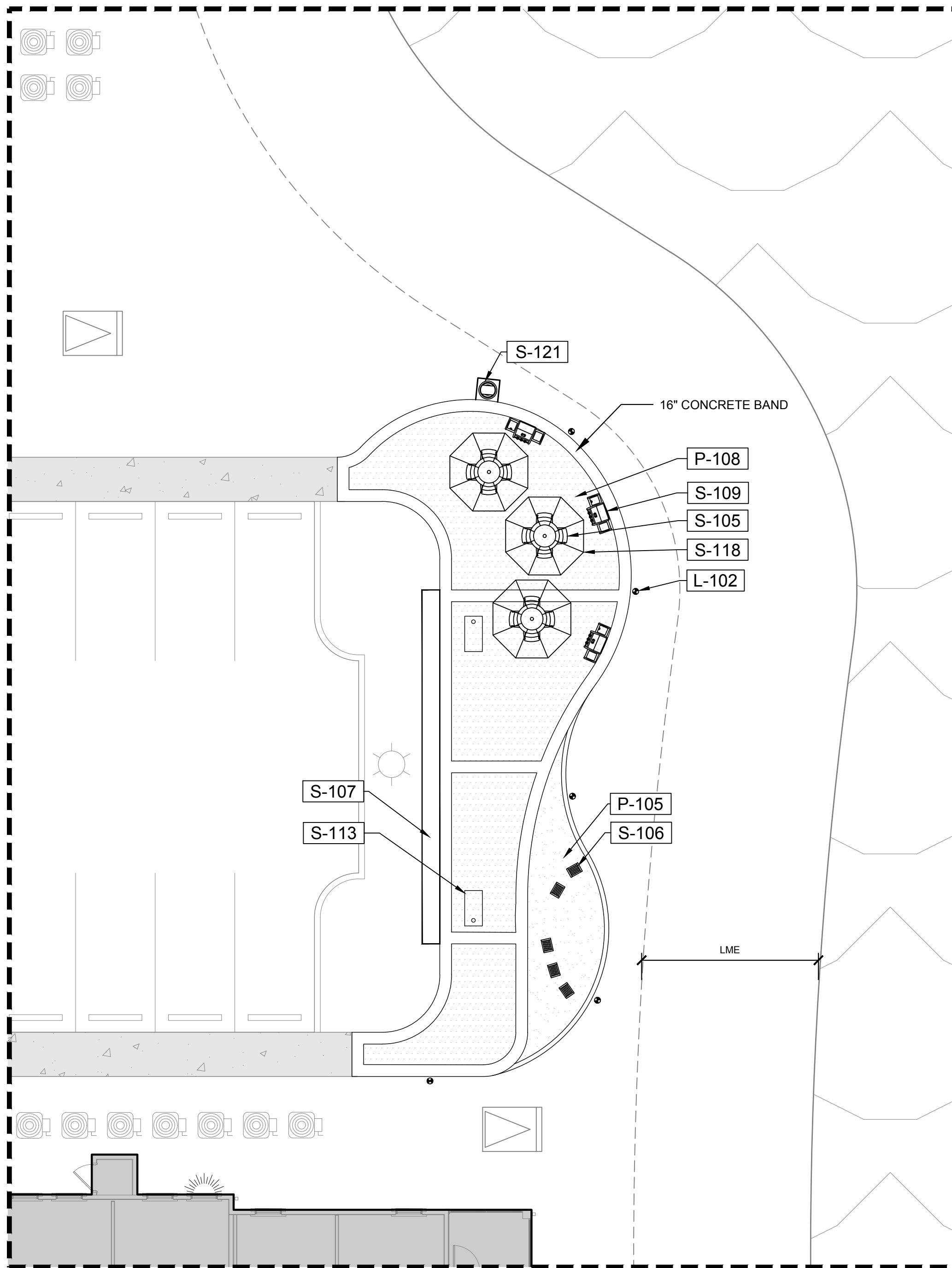
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LICENSED PROFESSIONAL JENNIFER L. DAQUAS P.L.A. FLORIDA LICENSE NUMBER 6667369	KHA PROJECT 148651002	DATE JANUARY 2023
SCALE AS SHOWN	DRAWN BY KHA	CHECKED BY JLD
AMENITY HARDSCAPE PLAN		
HIGHWAY 82 MULTI-FAMILY PREPARED FOR MILHAUS DEVELOPMENT, LLC CITY OF FORT MYERS, FLORIDA		
SHEET NUMBER H-02		

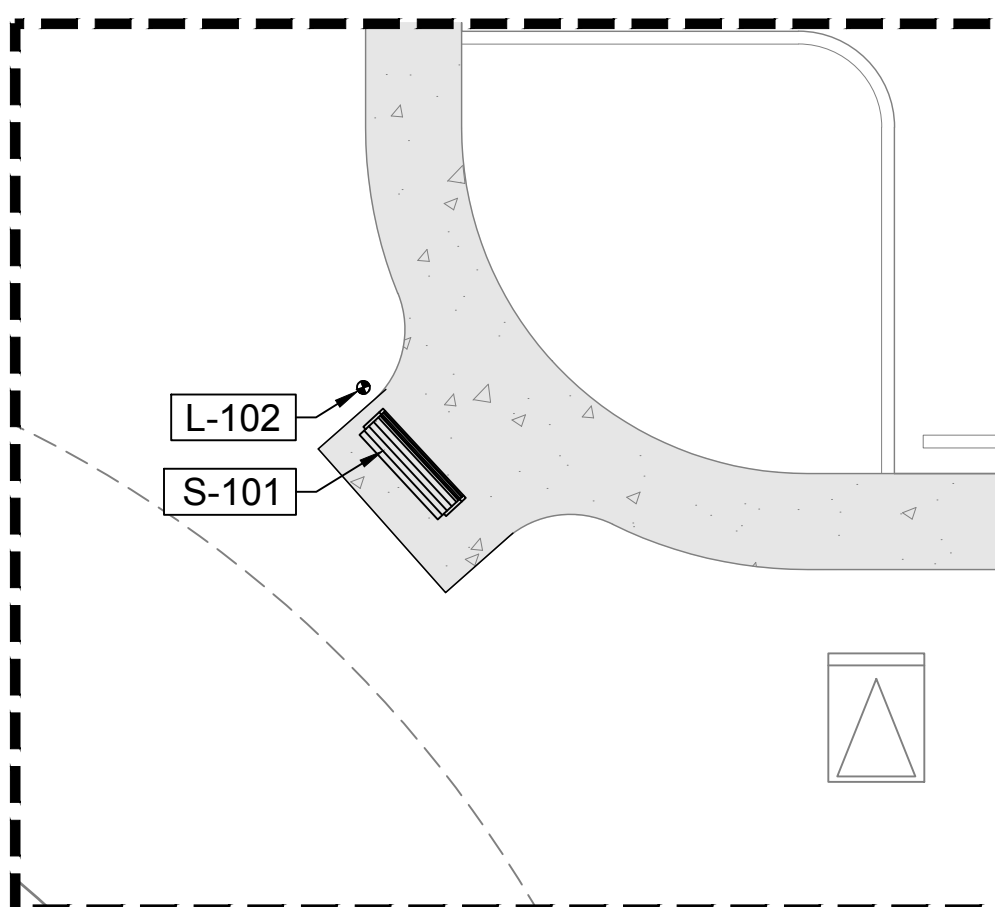
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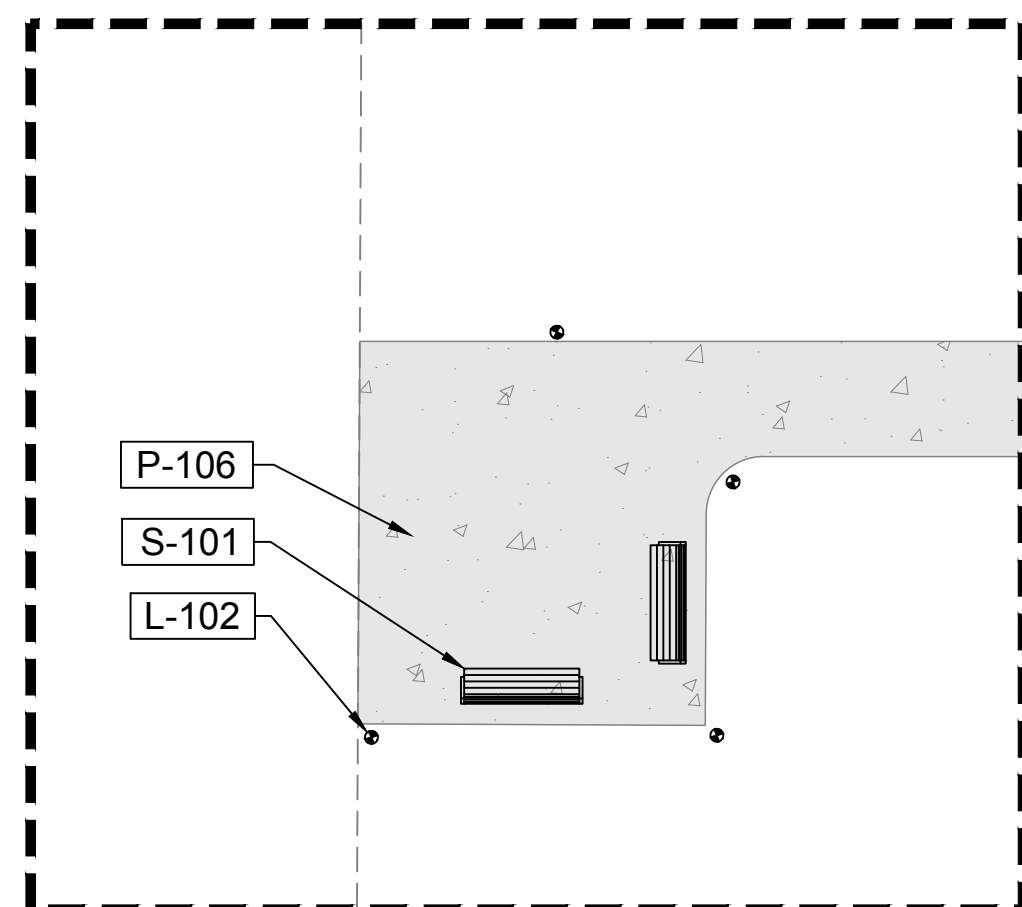
DOG PARK



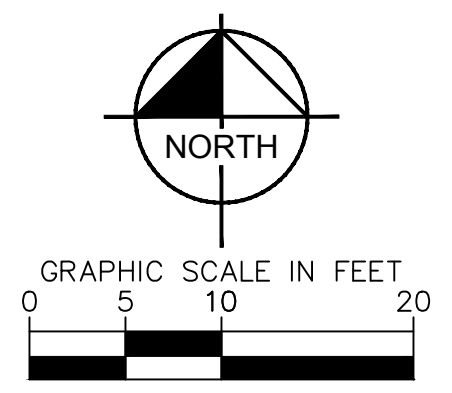
LAKE AMENITY



SEATING AREA



SEATING AREA



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REFERENCE NOTES SCHEDULE - DOG PARK

SYMBOL	METAL DESCRIPTION
F-302	4'-6" HT DOG PARK FENCE BY BARFIELD FENCE AND FABRICATION COLOR: POWDER COATED BLACK
SYMBOL	METAL GATE DESCRIPTION
G-302	4'-6" HT DOG PARK SINGLE GATE BY BARFIELD FENCE AND FABRICATION COLOR: POWDER COATED BLACK
SYMBOL	CONCRETE DESCRIPTION
P-106	STANDARD CONCRETE, LIGHT BROOM FINISH
P-109	CLASSIC K9 TURF BY FOREVER LAWN
SYMBOL	SITE FURNISHINGS DESCRIPTION
S-101	BEACON HILL RECYCLED PLASTIC 6' CONTOUR BENCH BT ANOVA. PROVIDED BY OWNER ITEM NO: BH1880R PLASTIC SLAT COLOR: CEDAR FRAME COLOR: TEXTURED SILVER
S-102	DOG WATER FOUNTAIN WITH WASH DOWN BY STERN WILLIAMS MODEL NO:9000-66-SS
S-115	DOUBLE HOOP JUMP BY DOG ON IT PARKS COLOR: GREEN
S-117	FIRE HYDRANT BY DOG ON IT PARKS
S-122	12' X 18' HIPPED CANTILEVER FABRIC SHADE STRUCTURE BY POLIGON 11 FT CLEAR HEIGHT

REFERENCE NOTES SCHEDULE - LAKE AMENITY

SYMBOL	LIGHTING DESCRIPTION
L-102	LIGHT BOLLARD BY LITHONIA LIGHTING MODEL NO: KBR8 LED BLACK FINISH
SYMBOL	CONCRETE DESCRIPTION
P-105	CRUSHED SHELL, WASHED WHITE
P-106	STANDARD CONCRETE, LIGHT BROOM FINISH
P-108	NATURAL GRAY CONCRETE WITH EXPOSED AGGREGATE FINISH
SYMBOL	SITE FURNISHINGS DESCRIPTION
S-105	DINING SET BY ANOVA. PROVIDED BY OWNER TABLE ITEM NO: ST3030-S CHAIR ITEM NO: C3C01 CHAIR COLOR: BRIGHT WHITE
S-106	ADIRONDACK CHAIR. PROVIDED BY OWNER
S-107	CONCRETE SEAT WALL
S-109	ELECTRIC PEDESTAL GRILL BY COYOTE OUTDOOR LIVING MODEL: C1EL120SM + C1ELCT21
S-113	CONCRETE CORN HOLE BY ANOVA ITEM NO: BYOB5531
S-118	LUCAYA 8' DIA. UMBRELLA BY ANOVA. PROVIDED BY OWNER ITEM NO: 8LPU FABRIC COLOR: TURQUOISE FRAME COLOR: WHITE
S-121	MADISON 35 GAL RECYCLED PLASTIC RECEPTACLE ITEM NO: TR35DT FRAME AND LID COLOR: TEXTURED SILVER PLASTIC SLAT COLOR: CEDAR

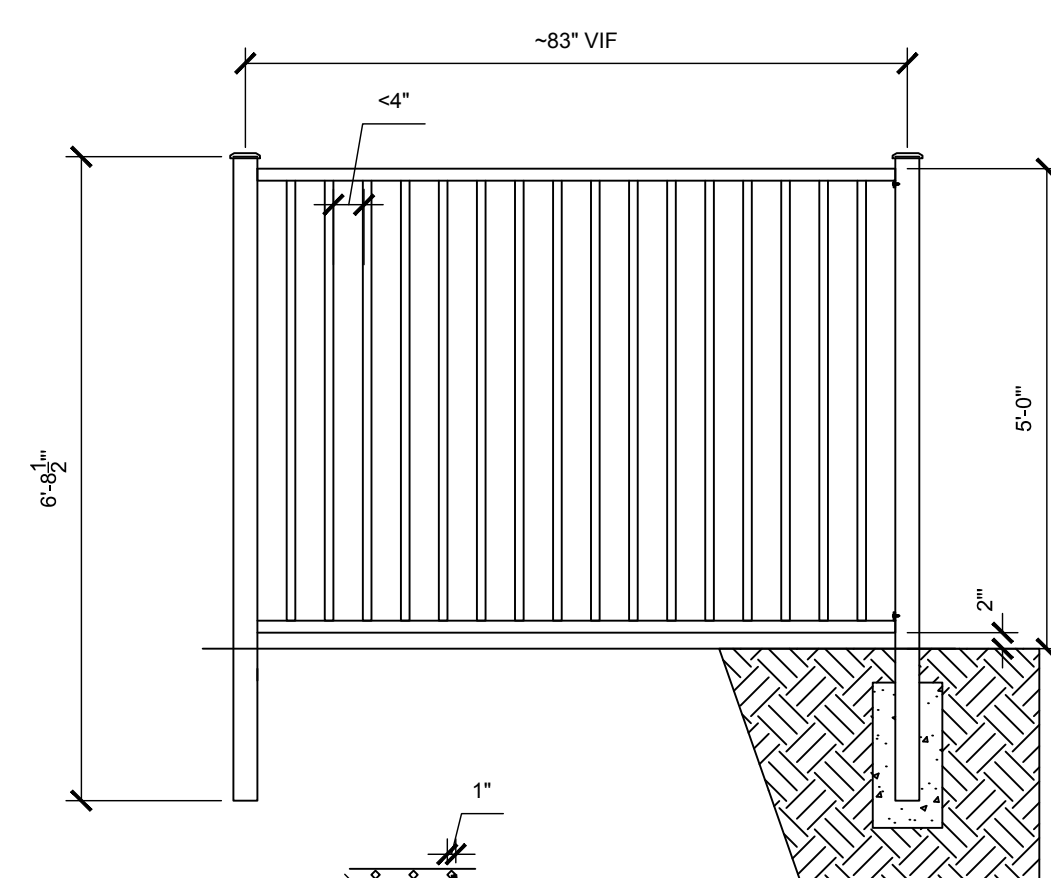
REFERENCE NOTES SCHEDULE - SEATING AREAS

SYMBOL	LIGHTING DESCRIPTION
L-102	LIGHT BOLLARD BY LITHONIA LIGHTING MODEL NO: KBR8 LED BLACK FINISH
SYMBOL	CONCRETE DESCRIPTION
P-106	STANDARD CONCRETE, LIGHT BROOM FINISH
SYMBOL	SITE FURNISHINGS DESCRIPTION
S-101	BEACON HILL RECYCLED PLASTIC 6' CONTOUR BENCH BT ANOVA. PROVIDED BY OWNER ITEM NO: BH1880R PLASTIC SLAT COLOR: CEDAR FRAME COLOR: TEXTURED SILVER

<p> 200 CENTRAL AVENUE, SUITE 600 ST. PETERSBURG, FL 33701 PHONE: 727-581-9999 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106 </p>		REVISIONS No. DATE
KHA PROJECT 146651002	LICENSED PROFESSIONAL JENNIFER L. DAQUILA P.L.A. FLORIDA LICENSE NUMBER 6667369	No. DATE
DATE JANUARY 2023	SCALE AS SHOWN	DRAWN BY KHA
CHECKED BY JLD	DATE	DATE
AMENITY HARDSCAPE PLAN		
HIGHWAY 82 MULTI-FAMILY PREPARED FOR MILHAUS DEVELOPMENT, LLC CITY OF FORT MYERS, FLORIDA	SHEET NUMBER H-03	

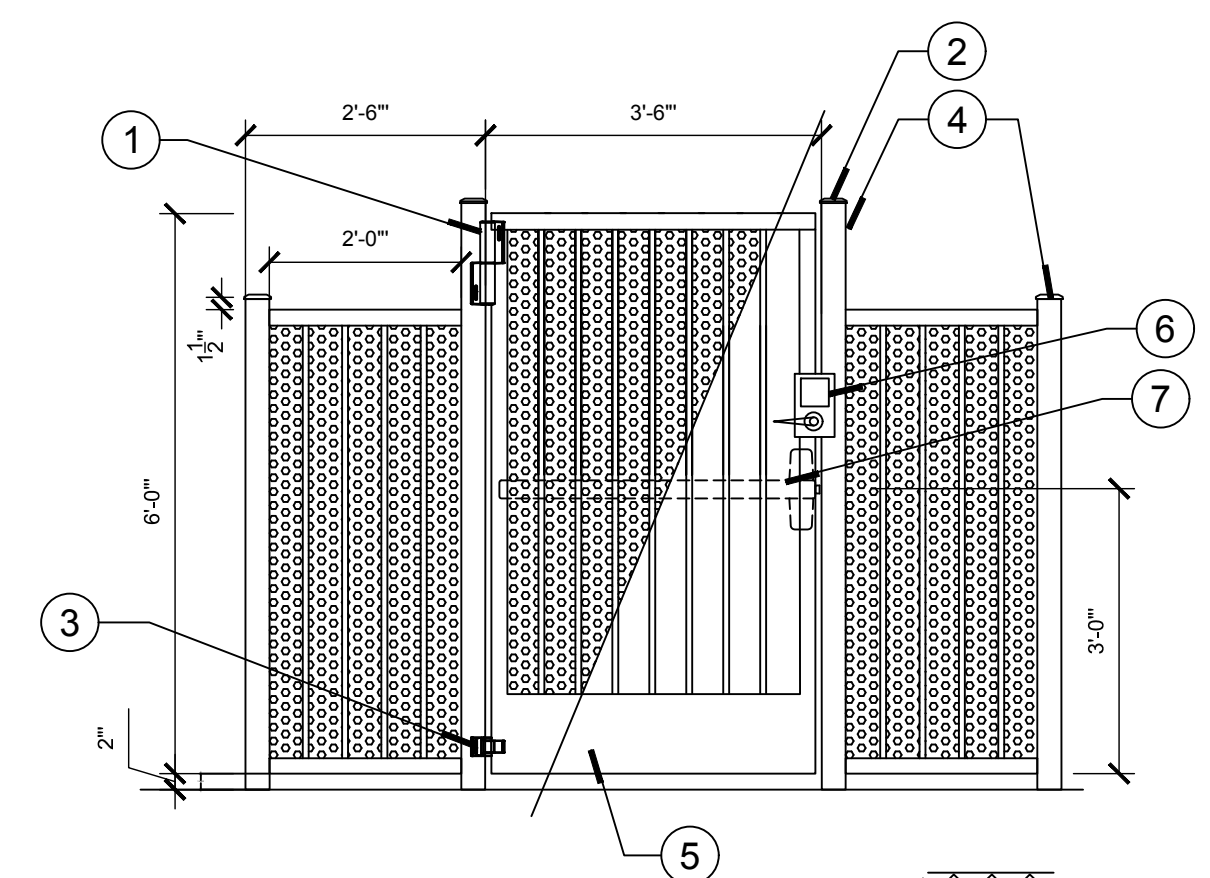
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MANUFACTURER: BARFIELD FENCE AND FABRICATION 321.396.001
COLOR: POWDER COATED BLACK

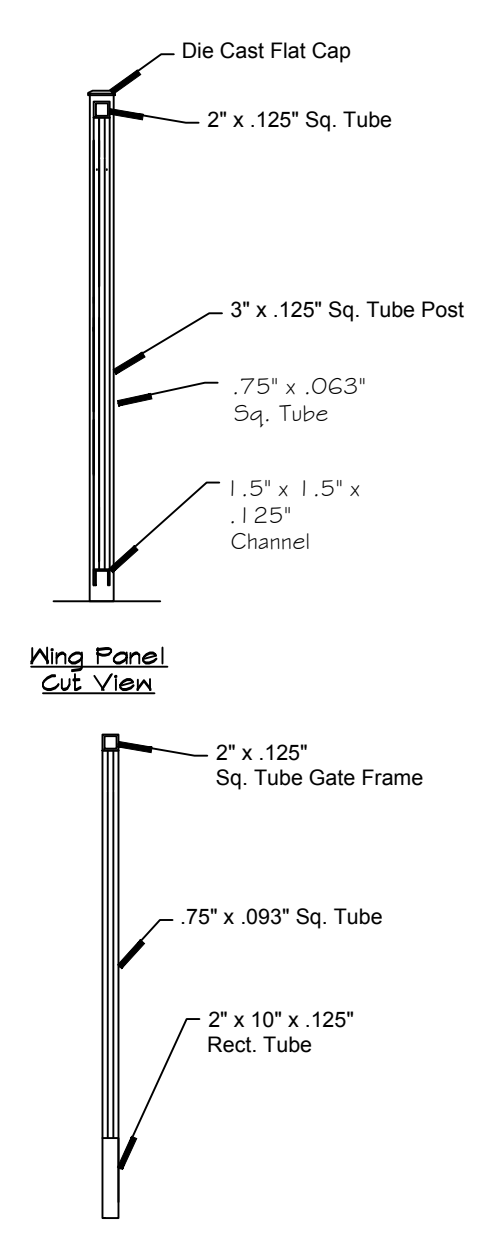
1 5' POOL DECK FENCE
NTS



- SINGLE GATE ARRANGEMENT**
- 1 LOCINOX MAMMOTH 180 SELF-CLOSING HINGE
 - 2 DIE CAST FLAT CAP
 - 3 LOCINOX DINO HINGE
 - 4 3" X 1.25" SQ. TUBE POST
 - 5 2" X 10" X 125" KICK PLATE FOR ADA COMPLIANCY
 - 6 SIMPLEX L1021 LEVER MECHANICAL PUSHBUTTON LOCK KEY BYPASS
 - 7 PANIC BAR & WEATHERPROOF ELECTRIC STRIKE, SEE NOTES

MANUFACTURER: BARFIELD FENCE AND FABRICATION 321.396.001
COLOR: POWDER COATED BLACK

2 6' POOL DECK GATE
NTS



CORONADO FIRE PIT
Copper, Corten Steel, Stainless Steel, Powder Coated Steel

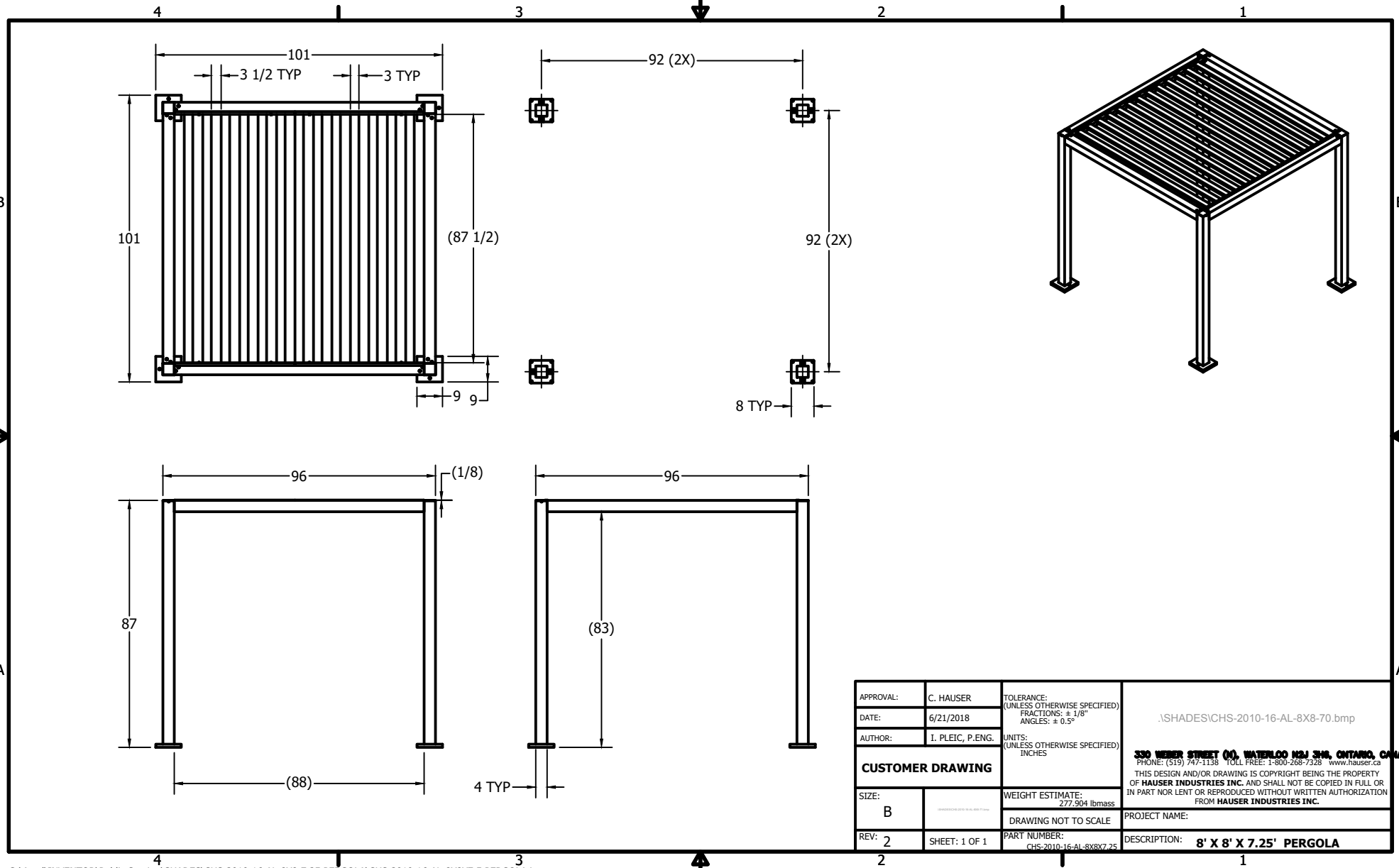
HAMMERED COPPER	CORTEN STEEL	STAINLESS STEEL	POWDER COAT STEEL	A	B	A2	B2	C	D	E	F	BTU
OFT-CORCP48	OFT-CORCS48	OFT-CORSS48	OFT-CORCS48	48"	28"	38"	18"	13"	30"	10"	24"	40,000
OFT-CORCP60	OFT-CORCS60	OFT-CORSS60	OFT-CORCS60	60"	28"	38"	18"	13"	42"	10"	30"	50,000
OFT-CORCP72	OFT-CORCS72	OFT-CORSS72	OFT-CORCS72	72"	28"	38"	18"	13"	42"	10"	44"	70,000
OFT-CORCP84	OFT-CORCS84	OFT-CORSS84	OFT-CORCS84	84"	28"	38"	18"	13"	48"	10"	54"	90,000
OFT-CORCP96	OFT-CORCS96	OFT-CORSS96	OFT-CORCS96	96"	28"	38"	18"	13"	48"	10"	60"	100,000
OFT-CORCP108	OFT-CORCS108	OFT-CORSS108	OFT-CORCS108	108"	28"	38"	18"	13"	50"	10"	72"	120,000

Fire Pit Material: Multiple
Pan Material: 304 Stainless Steel
Burner Material: 304 Stainless Steel
Standard 2" depth on all pans
Match List Unit Includes: Pan, Burner, Gas Orifice, Gas Hoses, Key Valve, Key
110v Ignition Unit Includes: Fan, Burner, Gas Orifice, Gas Hoses, Key Valve, Plug & Play Electronic Valve, Pilot Igniter.

MANUFACTURER: THE OUTDOOR PLUS
MODEL: CORONADO FIRE PIT
COLOR: GRAY
SIZE: 84"

CONTRACTOR TO INSTALL GAS
TIMER AND EMERGENCY SHUT OFF.
COORDINATE WITH MEP.

3 FIRE PIT
NTS



APPROVAL:	C: MANAGER	DATE:	02/08/23
REVISION:	1: REV. 2: PANE	DATE:	02/08/23
CUSTOMER DRAWING			
REV:	2	SHEET:	1 OF 1

NOTES:
1. PROJECT STRUCTURAL ENGINEER WILL PROVIDE ENGINEERED FOOTINGS PER MANUFACTURER'S SPECIFICATIONS AND CURRENT FBC STANDARDS.
2. CONTRACTOR TO SUBMIT SHOP DRAWINGS AND COLOR SAMPLES TO LANDSCAPE ARCHITECT AND OWNERSHIP FOR APPROVAL.

4 8' X 8' PERGOLA
1/4" = 1'-0"

Wilshire Collection
Material: FRP Fiberglass and Lightweight GFRC Concrete

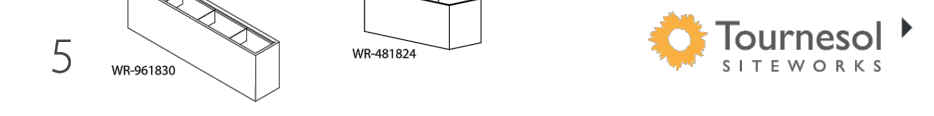
- Lightweight FRP fiberglass and GFRC are designed to be durable despite low weight - even for heavy traffic locations.
- Coordinates with our self-watering container irrigation products.
- Wilshire collection is also available in Weathering steel and powdercoat steel versions.
- Round, square and rectangular sizes from 18" to 120", with customization available.
- Matching ash, trash and recyclers available.

MANUFACTURER: TOURNESOL SITEWORKS
MODEL: WILSHIRE COLLECTION, WR-961284
COLOR: SMOKE
SIZE: 96" X 18" X 24"

5 RECTANGULAR PLANTER
NTS

Rectangles continued...

Part No.	Material	Height (Inch)	Weight (Lbs)	Shipping (Lbs)	Matchup Irrigation
WR-301818	FRP	18"	18	18	COM-8114620
WR-301824	FRP	18"	24	24	COM-8114620
WR-301830	FRP	18"	30	30	COM-8114620
WR-301836	FRP	18"	36	36	COM-8114620
WR-301842	FRP	18"	42	42	COM-8114620
WR-301848	FRP	18"	48	48	COM-8114620
WR-301854	FRP	18"	54	54	COM-8114620
WR-301860	FRP	18"	60	60	COM-8114620
WR-301866	FRP	18"	66	66	COM-8114620
WR-301872	FRP	18"	72	72	COM-8114620
WR-301878	FRP	18"	78	78	COM-8114620
WR-301884	FRP	18"	84	84	COM-8114620
WR-301890	FRP	18"	90	90	COM-8114620
WR-301896	FRP	18"	96	96	COM-8114620
WR-301902	FRP	18"	102	102	COM-8114620
WR-301908	FRP	18"	108	108	COM-8114620
WR-301914	FRP	18"	114	114	COM-8114620
WR-301920	FRP	18"	120	120	COM-8114620



OUTDOOR SHOWER

UNPACK AND INSPECT CONTENTS FOR DAMAGE OR MISSING PARTS BEFORE INSTALLING. CONTACT CUSTOMER SERVICE AT 1-866-746-9371 OR INFO@OUTDOORSHOWER.COM IF YOU NEED ASSISTANCE.

DO NOT USE PIPE WRENCH, CHANNELLOCK WRENCH, OR PLUMBERS' PUTTY

SHOWER UNIT MUST BE WINTERIZED IN CLIMATES THAT FALL BELOW 32°F



MANUFACTURER: OUTDOOR SHOWER COMPANY
MODEL: FTA-C50T-C-ADA

6 POOL SHOWER
NTS

CALL 2 WORKING DAYS BEFORE YOU DIG

IT'S THE LAW! DIAL 811

Know what's below. Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

GMP SET - NOT FOR CONSTRUCTION

Kimley Horn
200 CENTRAL AVENUE, SUITE 600
ST. PETERSBURG, FL 33701
PH: 727-561-9899
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
JENNIFER L. DAOULAS P.L.A.
FLORIDA LICENSE NUMBER: 6667369

KHA PROJECT 148651002
DATE: JANUARY 2023
SCALE: AS SHOWN
DESIGNED BY: KHA
DRAWN BY: KHA
CHECKED BY: JLD

POOL AREA DETAILS

HIGHWAY 82 MULTI-FAMILY PREPARED FOR MILHAUS DEVELOPMENT, LLC CITY OF FORT MYERS, FLORIDA

SHEET NUMBER H-04

NO.	REVISIONS	DATE	BY

Printed By: Braud, Jessica - Sheet Set: KHA - Layout: H-05 - January 05, 2023 08:20:59am - K:\km_civil\148651002_milhaus_82_multi-family_sheets\sheet\H-01_HARDSCAPE_PLAN.dwg
 This document, together with the contracts and designs presented herein, is intended only for the specific purpose and date for which it was prepared. Please do not make any reference to this document without written authorization and approval by Kimley-Horn and Associates, Inc.



COYOTE
Outdoor Living

ELECTRIC GRILL

Model No: C1EL120SM

Features:

- 156 sq. in. cooking area
- 5,000 hour heating element
- 304 stainless steel
- Teflon coated cooking surface
- Ceramic flavorizer
- 120 VAC - 1300 WATTS - 11 AMP/5 - 60 HZ
- 550° F maximum temperature
- 60 minute safety timer with surge protector
- Removable frame for built-in application

Dimensions:

- Overall: 11-3/8" (H) x 18-1/8" (W) x 16-1/4" (D)
- Cutout: 3-3/8" (H) x 16" (W) x 15" (D)

Accessories:

- Cover & 2 Piece Tool Set Included
- Pedestal Stand available (Model No. C1ELCT2)
 - o Weighted base - no anchoring required
 - o Fold-down side shelves

www.coyoteoutdoor.com

C1EL120SM PRODUCT SPECS

DIMENSIONAL RENDERINGS

Portable Specs



Built-in Specs



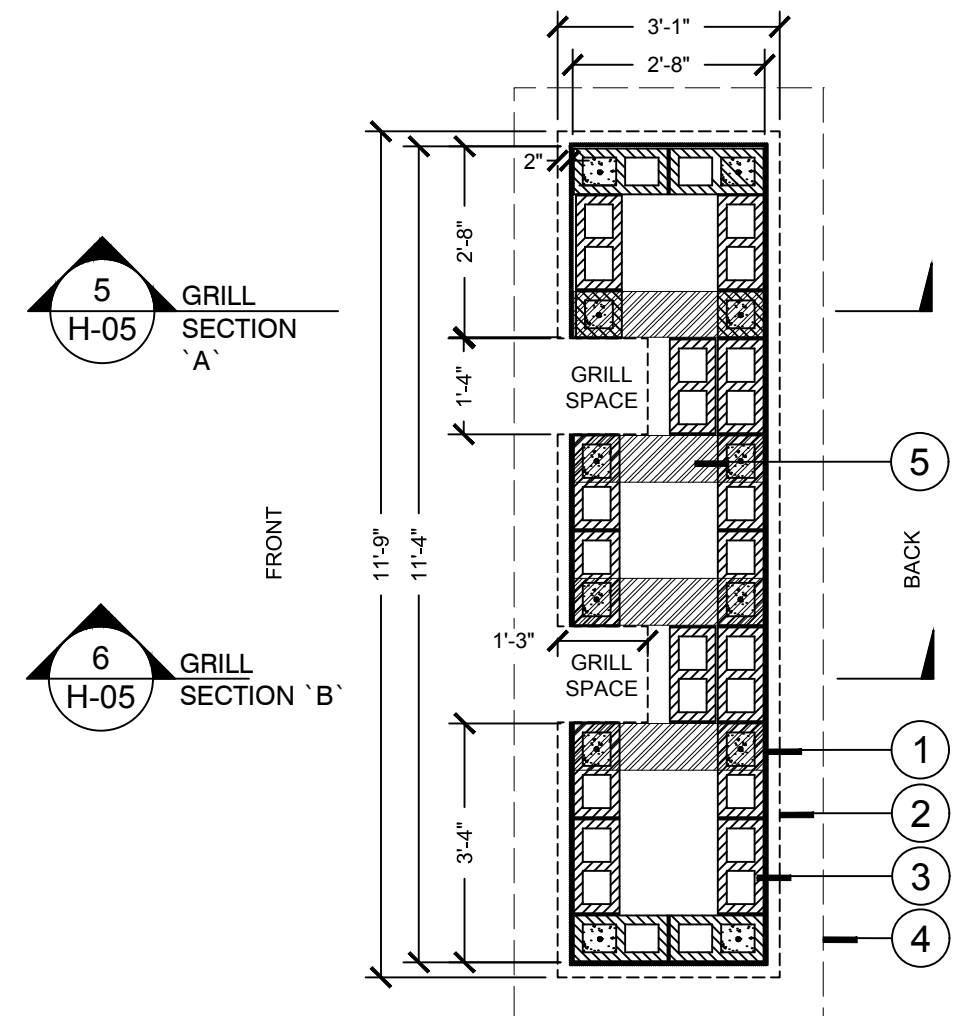
Overall Product Dimensions				Cutout Dimensions for Island			
Model No.	Height	Width	Depth	Model No.	Height	Width	Depth
C1EL120SM	11.3/8"	18.1/8"	16.1/4"	C1EL120SM	3.3/8"	16"	15"

Model No: Power Supply (amps) Amps (HP)
C1EL120SM 1300W 11.0 1.0

MANUFACTURER: COYOTE OUTDOOR LIVING
MODEL: C1EL120SM

NOTE: MEP TO PROVIDE ELECTRICAL SUPPLY TO GRILLS PER MANUFACTURER'S SPECIFICATIONS.

COYOTE
Outdoor Living
www.coyoteoutdoor.com



- 1 STONE VENEER TO MATCH ARCHITECTURE
 - 2 CONCRETE COUNTER TOP, BY OTHERS
 - 3 8" CMU LAID IN RUNNING BOND (TYP) GROUT CMU SOLID AND REINFORCE WITH (1) #5 BAR @ 32" O.C. AND AT ALL WALL CORNERS, BOND BEAMS, AND INTERSECTIONS. LAP ALL SPLICES 30" MIN.
 - 4 STRUCTURAL FOUNDATION LIMITS SHOWN AS REFERENCE.
 - 5 HORIZONTAL BOND BEAM, INSTALLED ON TOP COURSE. REFER TO SECTION THIS PAGE.
- NOTE:
- CONTRACTOR TO VERIFY GRILL OPENING AND HEIGHT WITH PROPOSED GRILL REQUIREMENTS. COUNTER SHOULD BE FLUSH WITH GRILL.
- CONTRACTOR SHALL HAVE OPTION TO PROVIDE ALTERNATIVE CMU LAYOUT. DESIGN CHANGES SHALL BE SUBMITTED TO ENGINEER OF RECORD FOR APPROVAL.
- CONTRACTOR TO INSTALL VENTILATION METHODS FOR GRILL PER MANUFACTURER'S RECOMMENDATIONS.



Kimley»Horn

200 CENTRAL AVENUE, SUITE 600
ST. PETERSBURG, FL 33701
PHONE: 727-561-8899
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL
JENNIFER L. DAOUAS P.L.A.
FLORIDA LICENSE NUMBER
6667369

KHA PROJECT
148651002
DATE
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SCALE
AS SHOWN
DESIGNED BY
KHA
DRAWN BY
KHA
CHECKED BY
JLD

GRILL DETAILS

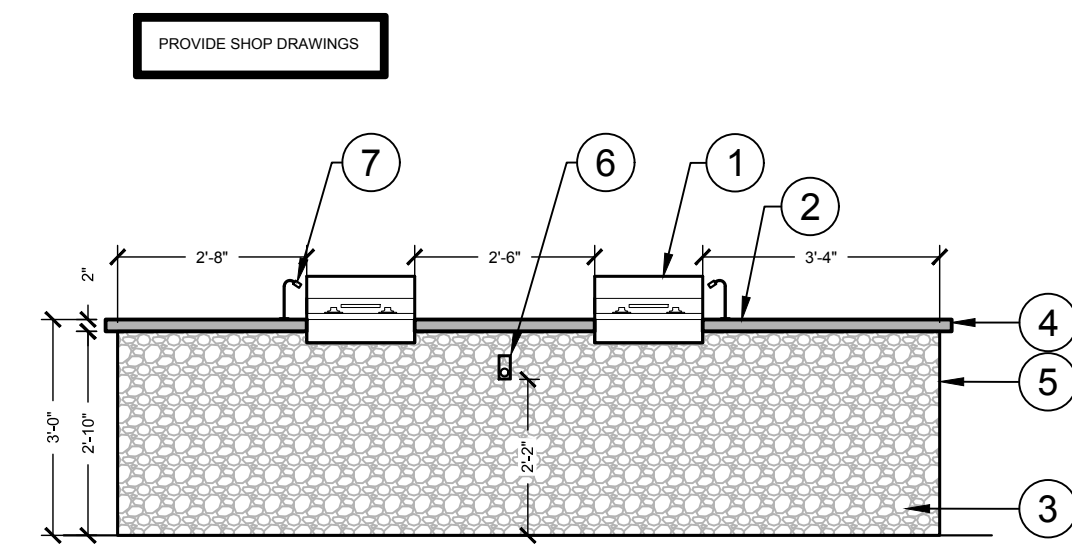
HIGHWAY 82
MULTI-FAMILY
PREPARED FOR
MILHAUS DEVELOPMENT,
LLC
CITY OF FORT MYERS
FLORIDA

SHEET NUMBER
H-05

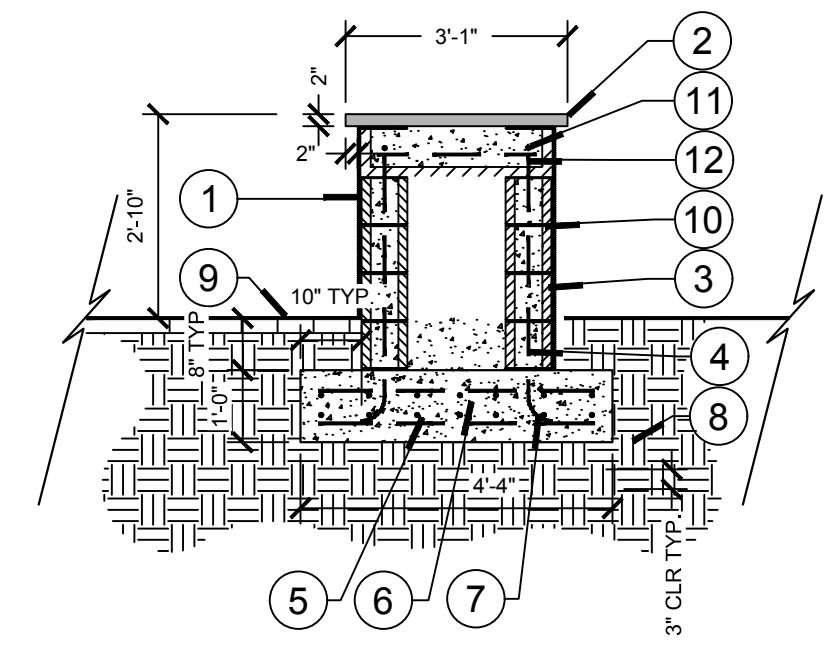
1 ELECTRIC GRILL
NTS

2 AMENITY AREA GRILL LAYOUT
3/8" = 1'-0"

3 GRILL LIGHT (DESIGN INTENT)
H-05

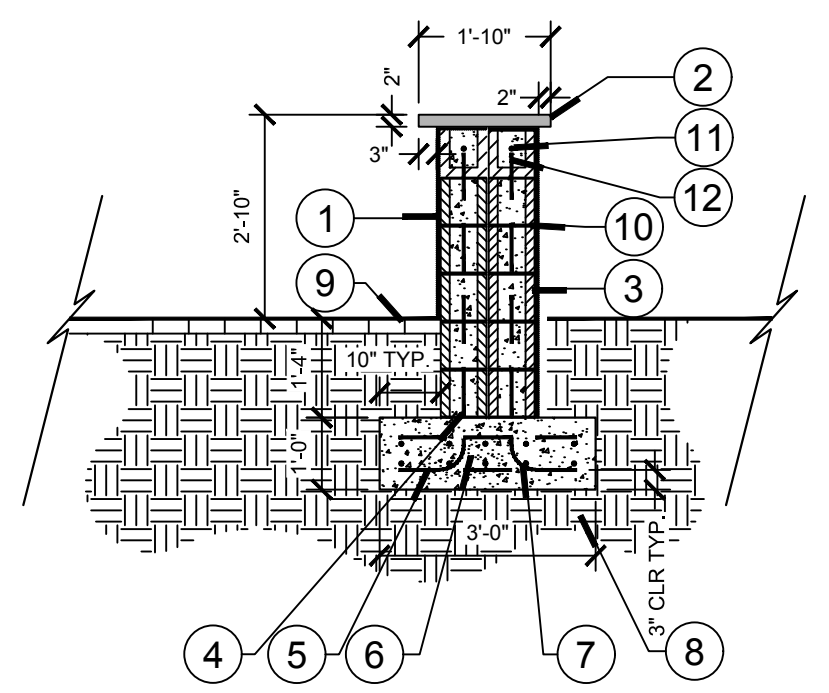


- 1 ELECTRIC GRILL BY COYOTE OUTDOOR LIVING. REFERENCE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - 2 CONCRETE COUNTER TOP, BY OTHERS
 - 3 STONE VENEER TO MATCH ARCHITECTURE
 - 4 EXTENTS OF COUNTERTOP
 - 5 EXTENTS OF VENEER
 - 6 EMERGENCY SHUTOFF BUTTON - MEP TO COORDINATE SHUTOFF TO BOTH GRILLS
 - 7 GRILL LIGHT
- NOTES:
1. CONTRACTOR TO PROVIDE STRUCTURAL SHOP DRAWINGS OF GRILL ENCLOSURE, INCLUDING FOOTER, BEFORE CONSTRUCTION.
 2. 1-HOUR AUTOMATIC GRILL SHUT-OFF BY FIRE MAGIC TO BE INSTALLED ON EACH GRILL PER MANUFACTURER'S INSTALLATION SPECIFICATIONS



- 1 STONE VENEER TO MATCH ARCHITECTURE
- 2 CONCRETE COUNTER TOP, BY OTHERS
- 3 8" CMU LAID IN RUNNING BOND (TYP) GROUT CMU SOLID AND REINFORCE WITH (1) #5 BAR @ 32" O.C. AND AT ALL WALL CORNERS, BOND BEAMS, AND INTERSECTIONS. LAP ALL SPLICES 30" MIN.
- 4 PLACE FIRST COURSE IN FULL MORTAR BED
- 5 #5 BARS @ 8" O/C E.W. TOP AND BOTTOM. PROVIDE 3" CLR. COVER (TYP.)
- 6 4'-4" x 1'-0" CONCRETE FOUNDATION. ALL CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
- 7 STD ACI HOOK (TYP)
- 8 COMPACTED SUB GRADE PREPARED PER STRUCTURAL NOTES
- 9 FINISH GRADE. SEE CIVIL PLANS. FOR HARDSCAPE SURFACE TREATMENT, SEE HARDSCAPE PLANS
- 10 PROVIDE 9 GAUGE GALVANIZED SINGLE WYTHE LADDER REINFORCEMENT @ 8" O.C. (EACH COURSE) IN BOTH DIRECTIONS. REINFORCEMENT SHALL CONNECT EACH MASONRY WALL THROUGH THE GROUT.
- 11 HORIZONTAL #5 BARS WITHIN U-BLOCK CMU BOND BEAM
- 12 EXTEND VERTICAL REINFORCEMENT INTO BOND BEAM (TYP.)

5 GRILL SECTION 'A'
3/8" = 1'-0"



- 1 STONE VENEER TO MATCH ARCHITECTURE
- 2 CONCRETE COUNTER TOP, BY OTHERS
- 3 8" CMU LAID IN RUNNING BOND (TYP) GROUT CMU SOLID AND REINFORCE WITH (1) #5 BAR @ 32" O.C. AND AT ALL WALL CORNERS, BOND BEAMS, AND INTERSECTIONS. LAP ALL SPLICES 30" MIN.
- 4 PLACE FIRST COURSE IN FULL MORTAR BED
- 5 #5 BARS @ 8" O/C E.W. TOP AND BOTTOM. PROVIDE 3" CLR. COVER (TYP.)
- 6 3'-0" x 1'-0" CIP CONCRETE FOUNDATION. ALL CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
- 7 STD ACI HOOK (TYP)
- 8 COMPACTED SUB GRADE PREPARED PER STRUCTURAL NOTES
- 9 FINISH GRADE. SEE CIVIL PLANS. FOR HARDSCAPE SURFACE TREATMENT, SEE HARDSCAPE PLANS
- 10 PROVIDE 9 GAUGE GALVANIZED SINGLE WYTHE LADDER REINFORCEMENT @ 8" O.C. (EACH COURSE) IN BOTH DIRECTIONS. REINFORCEMENT SHALL CONNECT EACH MASONRY WALL THROUGH THE GROUT.
- 11 HORIZONTAL #5 BARS WITHIN U-BLOCK CMU BOND BEAM
- 12 EXTEND VERTICAL REINFORCEMENT INTO BOND BEAM (TYP.)

6 GRILL SECTION 'B'
3/8" = 1'-0"

4 GRILL - ELEVATION
H-05

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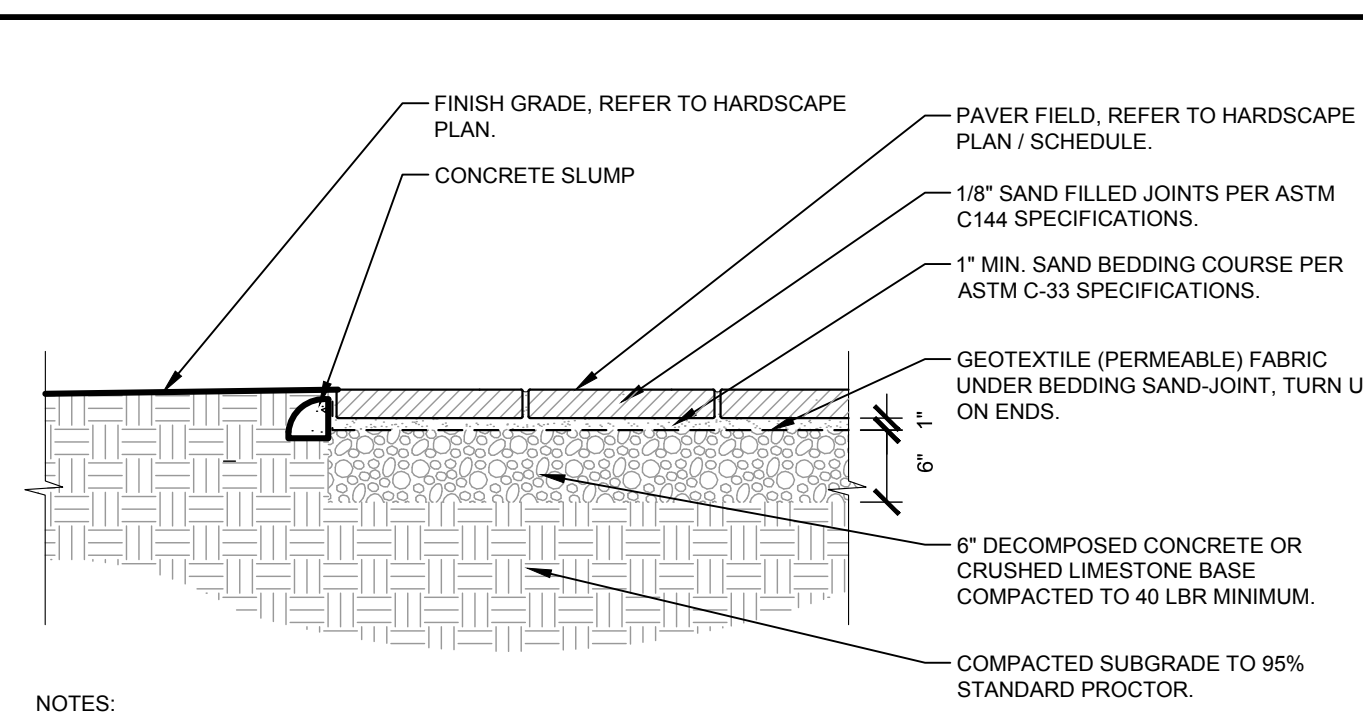
IT'S THE LAW!
DIAL 811

Know what's below.
Call before you dig.

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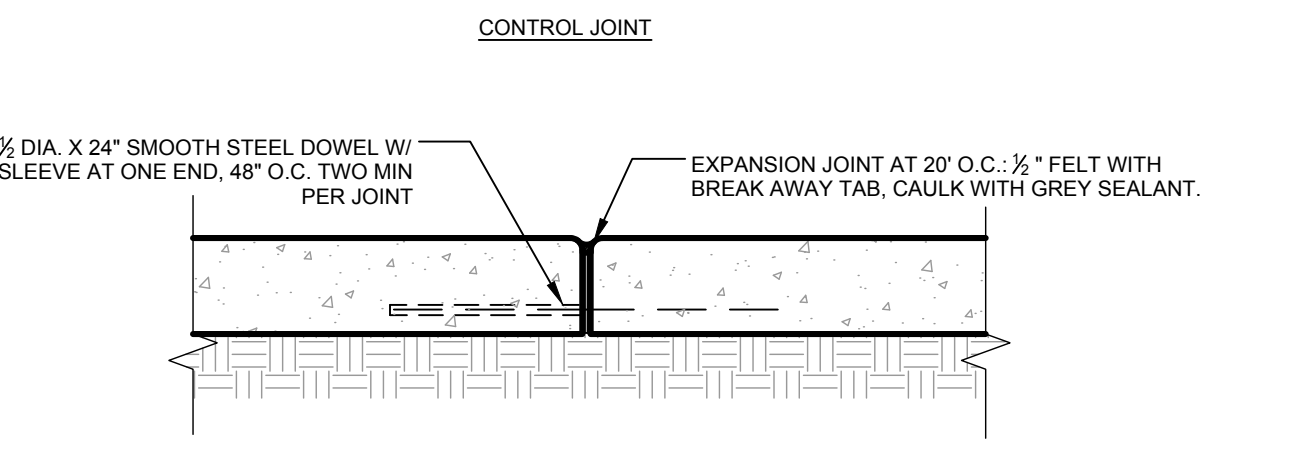
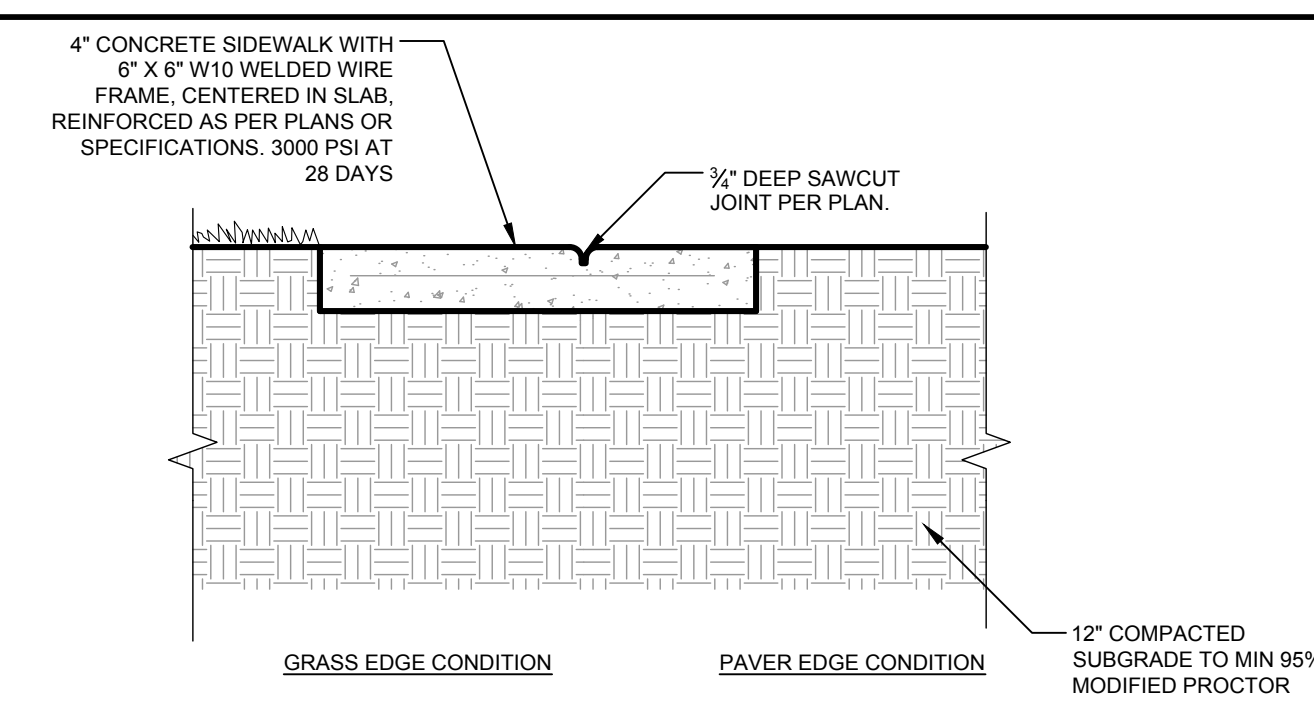
GMP SET - NOT FOR CONSTRUCTION

Project: By: Braud, Jessica
 Sheet: Sht-06
 Layout: 11-06
 January 05, 2023 08:20:41pm
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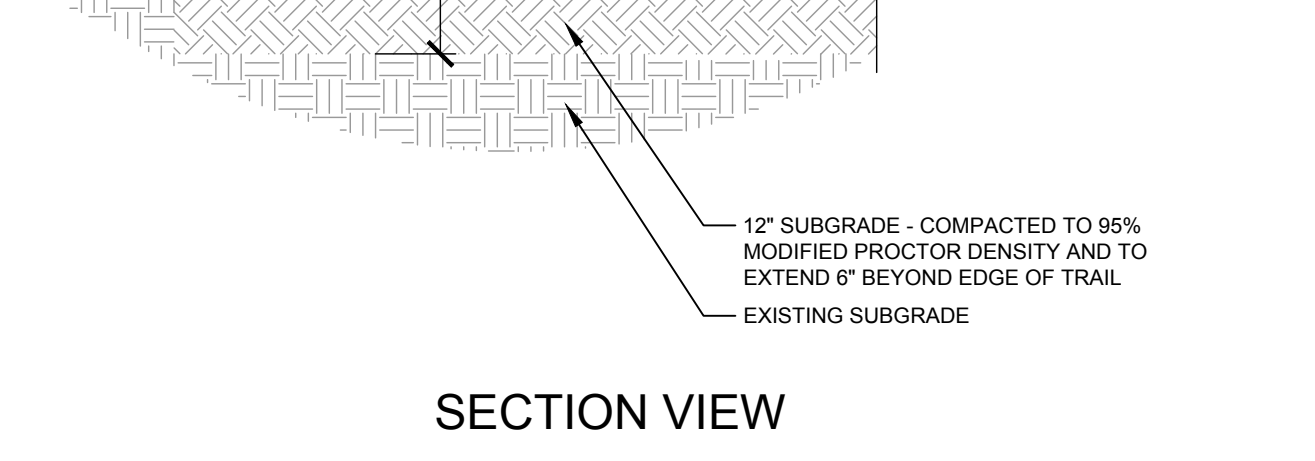
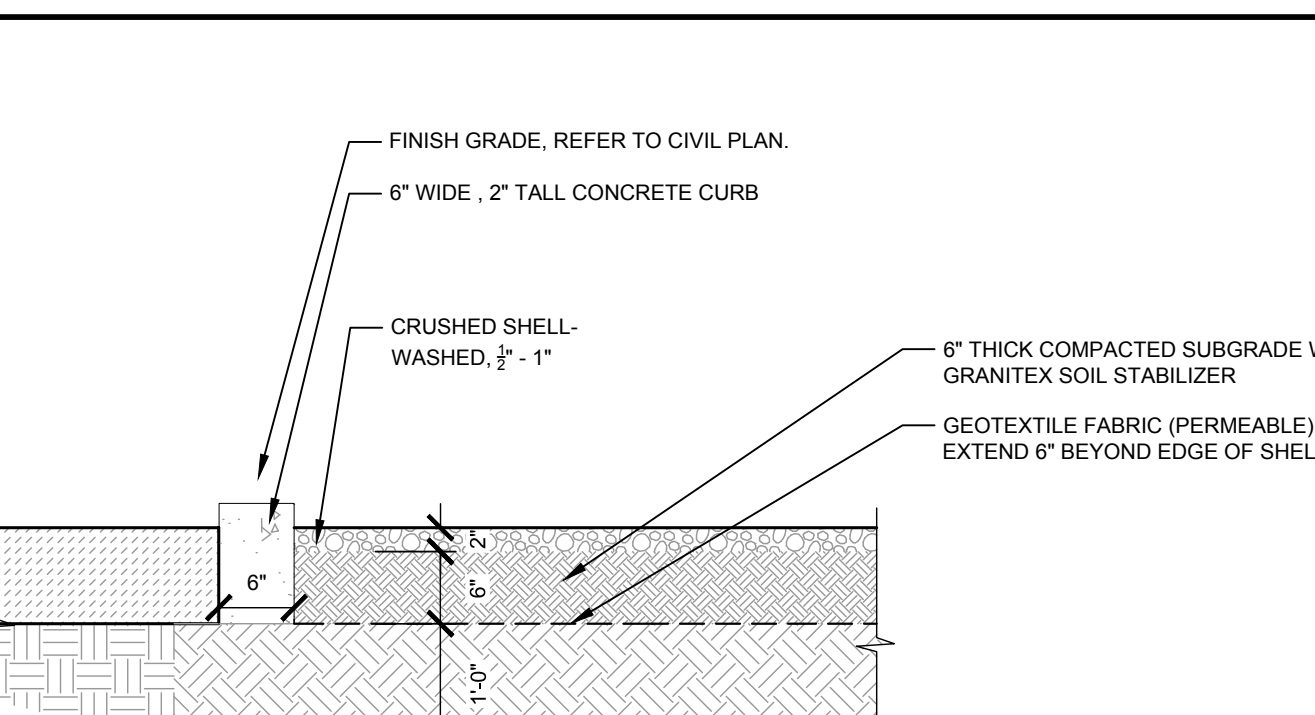


- NOTES:**
- CONTRACTOR TO INSTALL ALL PAVERS PER MANUFACTURER'S SPECIFICATIONS.
 - ALL INTERLOCKING CONCRETE PAVERS SHALL MEET THE REQUIREMENTS IN ASTM C936 "STANDARD SPECIFICATIONS FOR SOLID INTERLOCKING CONCRETE PAVING UNITS", AND SHALL COMPLY WITH APPLICABLE ICPI (INTERLOCKING CONCRETE PAVEMENT INSTITUTE) TECHNICAL SPECIFICATIONS.
 - ALL AREAS OF INTERLOCKING CONCRETE PAVERS, AS SHOWN ON THE PLANS SHALL BE SET WITH FLUSH TOP SURFACE AND SHALL MAINTAIN A MINIMUM SLOPE OF 0.5%, UNLESS OTHERWISE NOTED ON THE PLANS OR DETAILS.
 - BEDDING SAND SHALL CONFORM TO THE GRADING REQUIREMENTS OF ASTM C33. MASON SAND IS NOT ACCEPTABLE. ALL BEDDING SAND SHALL BE SCREENED TO AN EVEN THICKNESS.
 - ALL AREAS OF INTERLOCKING CONCRETE PAVERS SHALL COMPLY WITH CURRENT ADA (AMERICANS WITH DISABILITIES ASSOCIATION) REQUIREMENTS FOR ACCESSIBLE ROUTES.
 - ALL INTERLOCKING CONCRETE PAVER "CUTS" SHALL BE MADE WITH A SPLITTER OR MASONRY SAW.

1 CONCRETE PAVER WITH SLUMP - SECTION
 H-06 3/4" = 1'-0" P-MI2-MI1-22



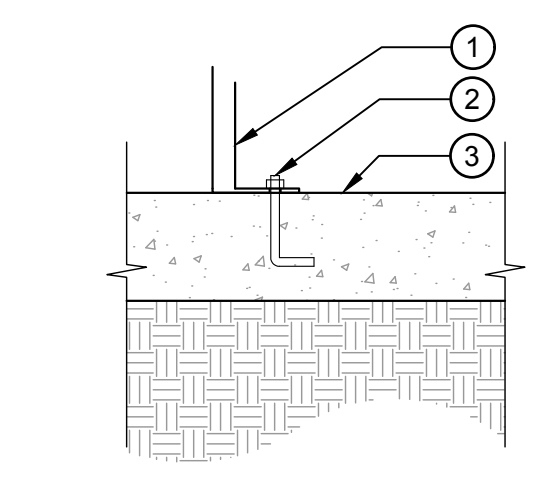
2 CONCRETE SIDEWALK DETAIL
 H-06 1" = 1'-0" P-MI2-MI1-12



3 CRUSHED SHELL SURFACE WITH CURB
 H-06 3/4" = 1'-0" P-MI2-MI1-30

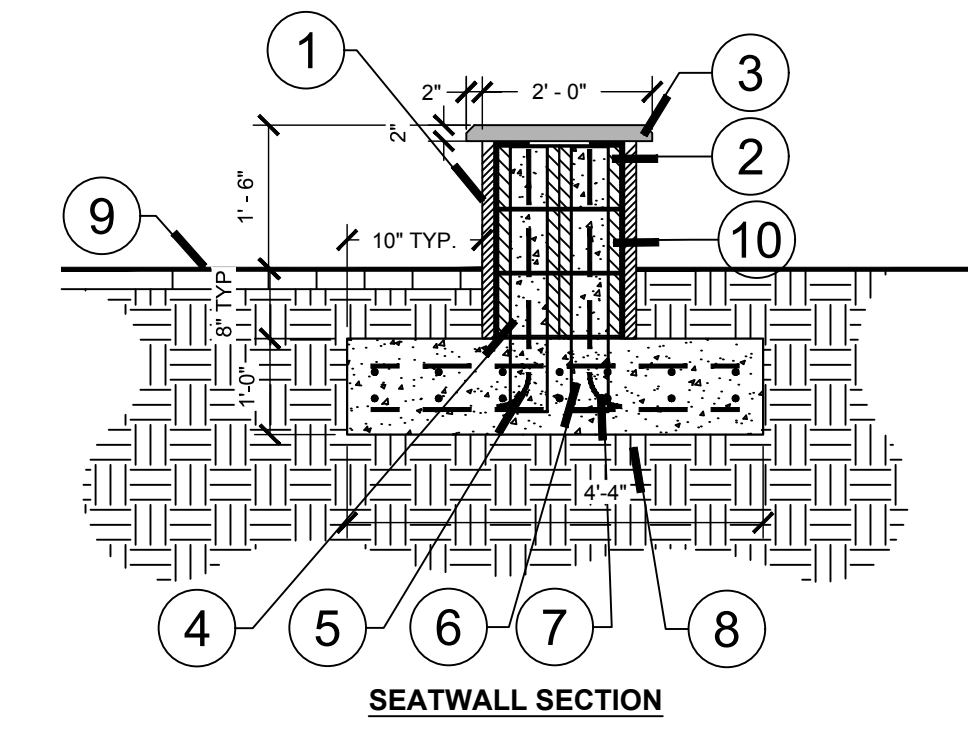


4 CONCRETE CORN HOLE (DESIGN INTENT)
 H-06 P-MI2-MI1-71



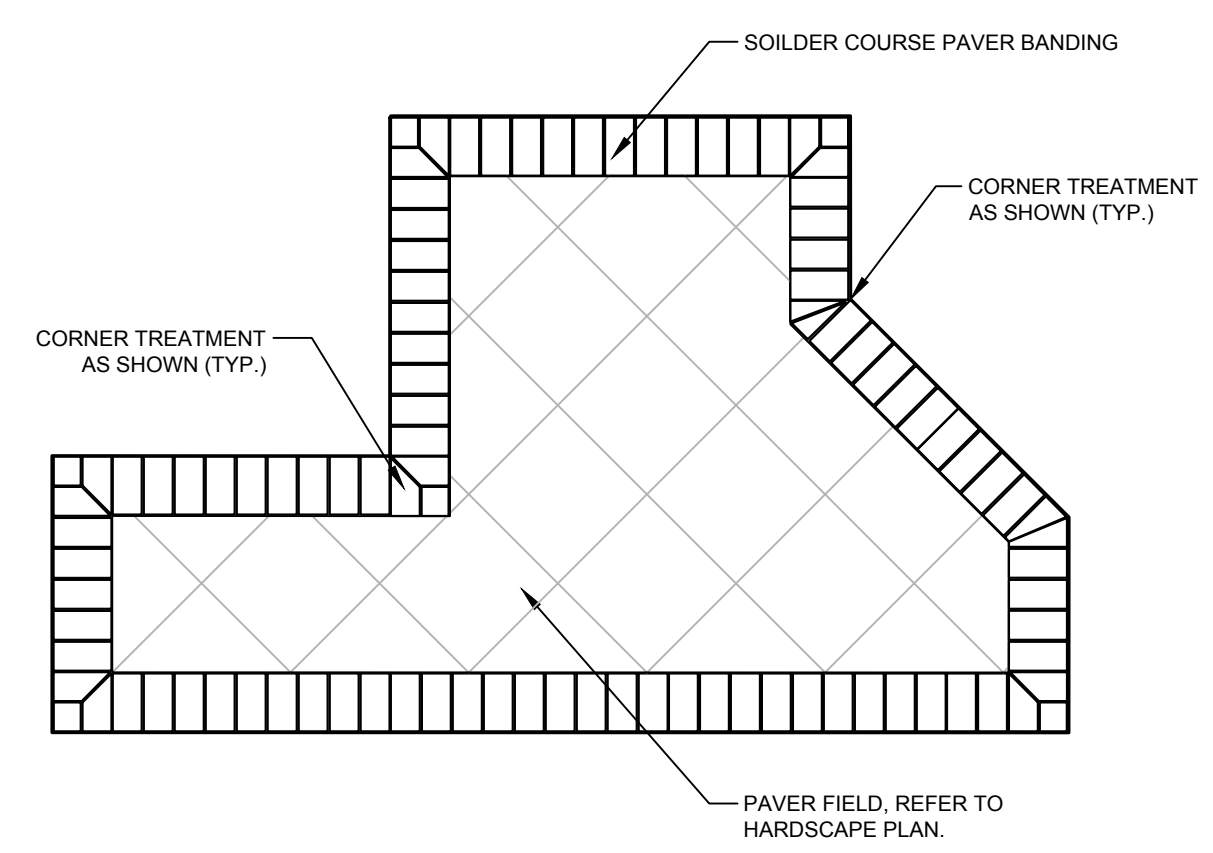
- NOTES:**
- CONTRACTOR TO SUBMIT SHOP DRAWINGS OF SURFACE MOUNTING DETAIL.
 - INSTALL PER MANUFACTURER SPECIFICATION.

5 SURFACE MOUNTING ON CONCRETE
 H-06 NTS P-MI2-MI1-15

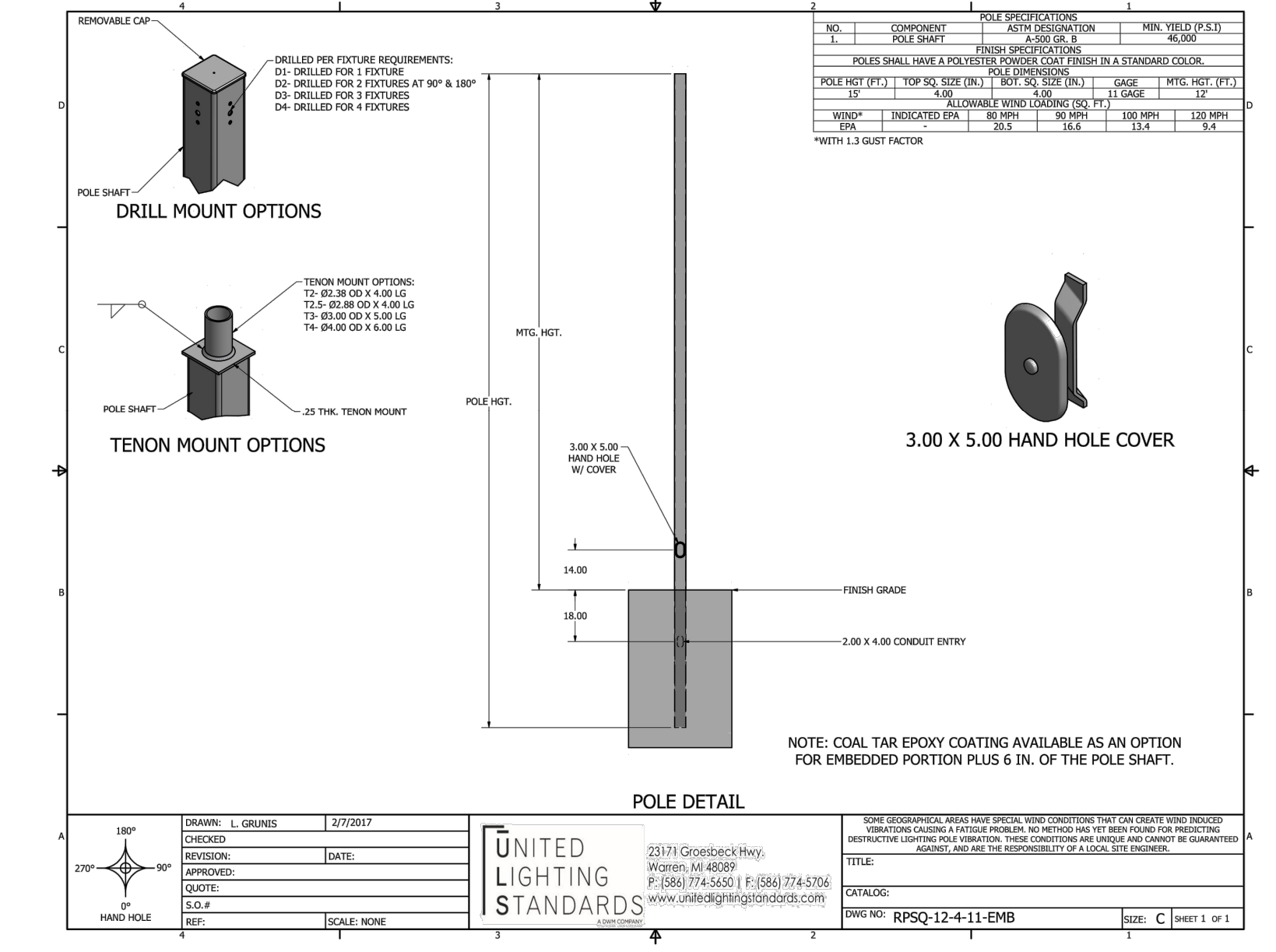


6 SEAT WALL
 H-06 1/2" = 1'-0" P-MI2-MI1-60

- STONE VENEER TO MATCH ARCHITECTURE
- 8" CMU LAID IN RUNNING BOND (TYP) GROUT CMU SOLID AND REINFORCE WITH (1) #5 BAR @ 32" O.C. AND AT ALL WALL CORNERS AND INTERSECTIONS. LAP ALL SPLICES 30" MIN.
- CONCRETE CAP, BY OTHERS.
- PLACE FIRST COURSE IN FULL MORTAR BED
- #5 BARS @ 8" O/C E.W. TOP AND BOTTOM. PROVIDE 3" CLR. COVER (TYP.)
- 4'-4" x 1'-0" CONCRETE FOUNDATION. ALL CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
- STD ACI HOOK (TYP)
- COMPACTED SUB GRADE PREPARED PER STRUCTURAL NOTES
- FINISH GRADE, SEE CIVIL PLANS. FOR HARDSCAPE SURFACE TREATMENT, SEE HARDSCAPE PLANS
- PROVIDE 9 GAUGE GALVANIZED SINGLE WYTHE LADDER REINFORCEMENT @ 8" O.C. (EACH COURSE) IN BOTH DIRECTIONS. REINFORCEMENT SHALL CONNECT EACH MASONRY WALL THROUGH THE GROUT.



7 SOLDIER COURSE PAVER BORDER
 H-06 PLAN P-MI2-MI1-60



- POLE FOUNDATION NOTES:**
- CONTRACTOR TO LOCATE ALL EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND CONTACT ENGINEER OF ANY POTENTIAL CONFLICTS.
 - CONTRACTOR TO COORDINATE ELECTRICAL CONDUIT WITH ELECTRICAL ENGINEER
 - CONTRACTOR TO SUBMIT FOUNDATION DETAIL FOR EMBEDMENT. ALL CONCRETE SHALL BE A MINIMUM OF 4000 PSI.

8 POLE FOR FESTOON LIGHT
 H-06 NTS P-MI2-MI1-43

NO.	REVISIONS	DATE	BY

Kimley-Horn
 200 CENTRAL AVENUE, SUITE 600
 ST. PETERSBURG, FL 33701
 PHONE: 727-581-9999
 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT 148651002	LICENSED PROFESSIONAL JENNIFER L. DAOUAS P.L.A.	DATE JANUARY 2023	CHECKED BY JLD
SCALE AS SHOWN	FLORIDA LICENSE NUMBER 6667369	DESIGNED BY KHA	DATE
		DRAWN BY KHA	

**HARDSCAPE
 DETAILS**

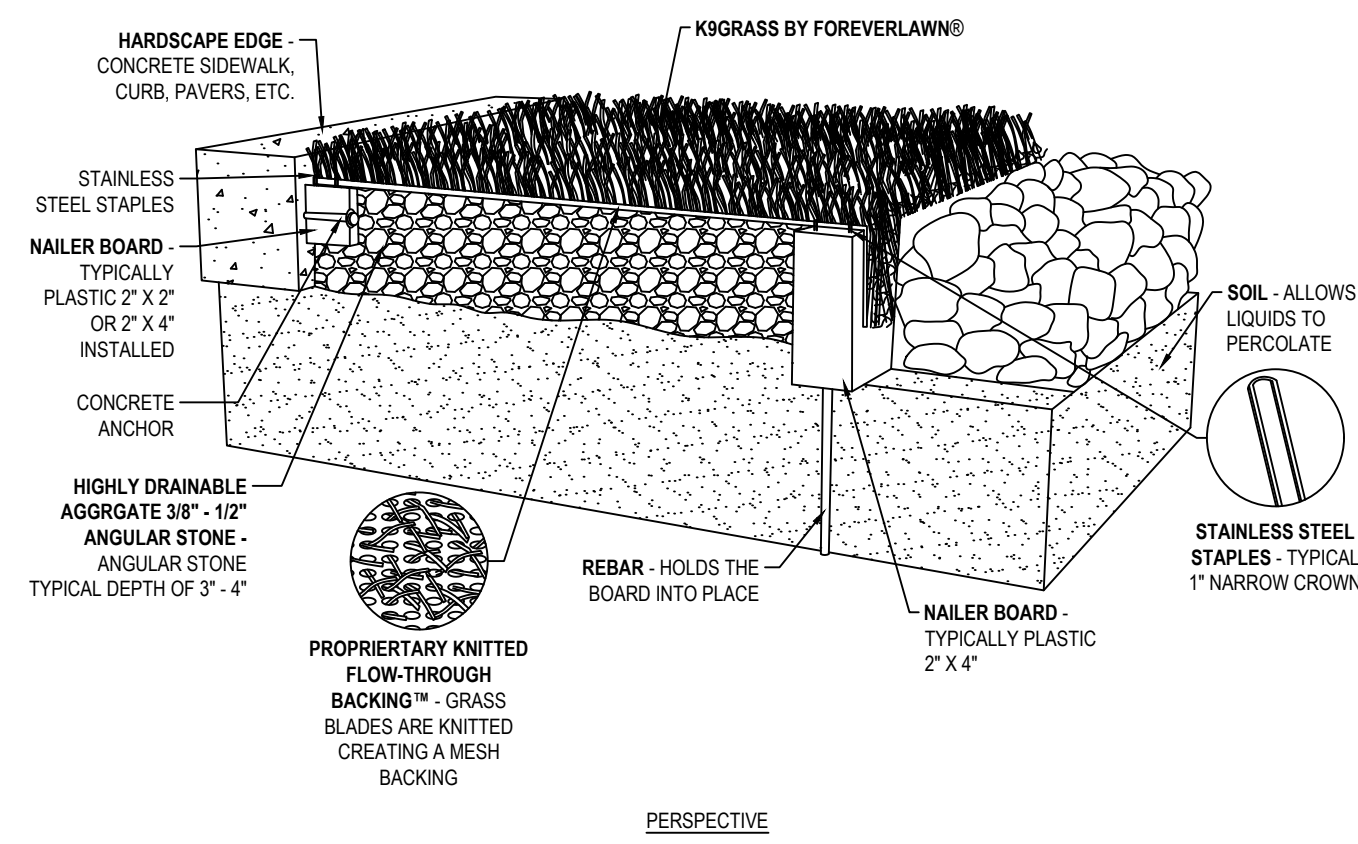
**HIGHWAY 82
 MULTI-FAMILY
 PREPARED FOR
 MILHAUS DEVELOPMENT,
 LLC
 CITY OF FORT MYERS, FLORIDA**

SHEET NUMBER
H-06

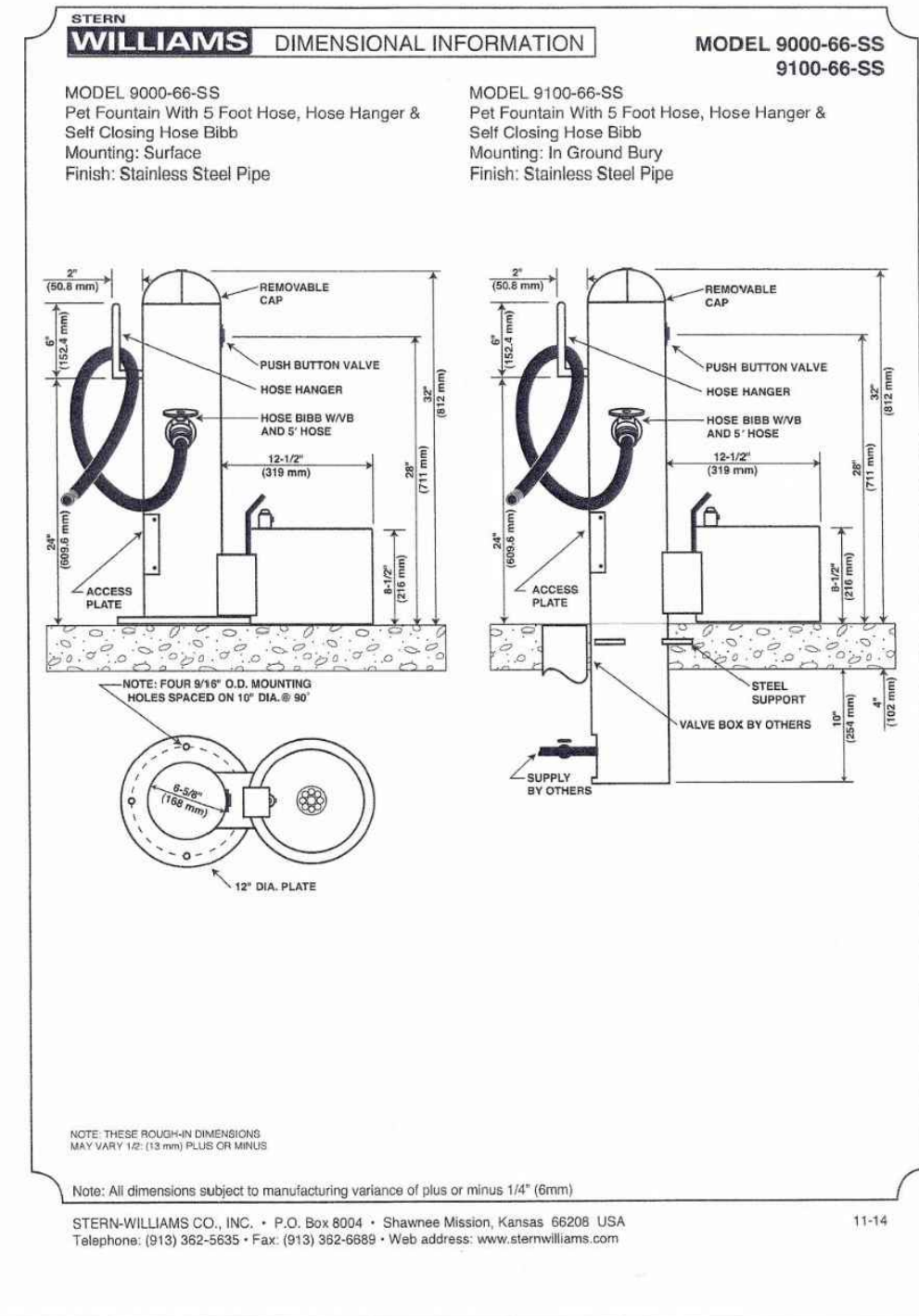
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 Call before you dig.
 SUNSHINE STATE ONE CALL OF FLORIDA, INC.
 GMP SET - NOT FOR CONSTRUCTION



FOREVERLAWN
8007 BEESON ST.
LOUISVILLE, OH 44641
PHONE: (866) 992-7876
FAX: (330) 249-2170
www.foreverlawn.com



- NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 2. DO NOT SCALE DRAWING.
 3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
 4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
 5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 1148-090



The one piece no dog park is complete without! Cast and durable reinforced resin and a UV clear coat to ensure years of fun. The hydrant's base is factory drilled to accommodate four anchor bolts for the many installation options. Standard color is red, but custom colors and logos are available.



7260 FIRE HYDRANT

Glass fiber reinforced resin and UV clear coat

Durable acrylic paint, hand finished details

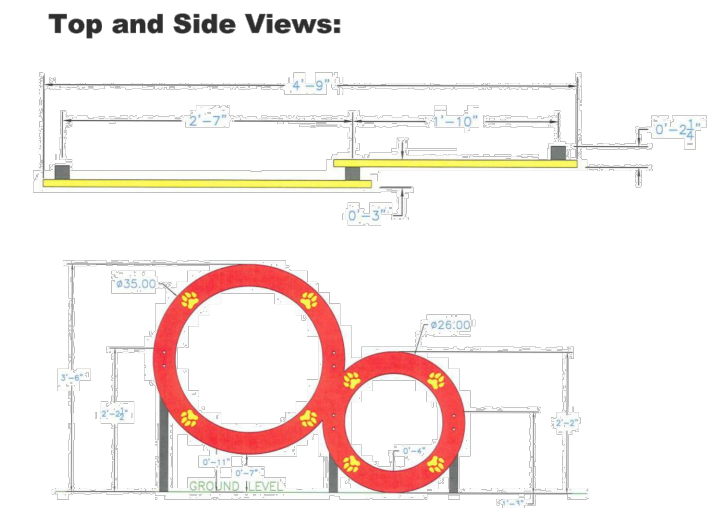
Custom colors and logos available

Dimensions: 32" H x 12"D

DOG-ON-IT-PARKS
4818 Evergreen Way Ste 209
Everett, WA 98203
P: 877-348-3647
www.dog-on-it-parks.com
Refer to installation manual for more detailed specifications.
Copyright 2016



The Double Hoop Jump offers two play components in one and is a practical component for smaller parks that need to maximize space. One hoop accommodates large and extra-large breeds, while the smaller option is suitable for medium and small dogs. Our signature paw and bone details are precision routed and help to provide depth perception, and you can also add your park or community name for free. Standard colors are Red, Blue or Green, with custom colors available for additional charge.



6522 DOUBLE HOOP JUMP

Set of Two Large hoop measures 27" and small hoop 18"

Customizable, bi-color solid poly plastic hoops

Powder coated, rust-proof aluminum uprights

Standard Colors: Blue, Green or Red

DOG-ON-IT-PARKS
4818 Evergreen Way Ste 209
Everett, WA 98203
P: 877-348-3647
www.dog-on-it-parks.com
Refer to installation manual for more detailed specifications.
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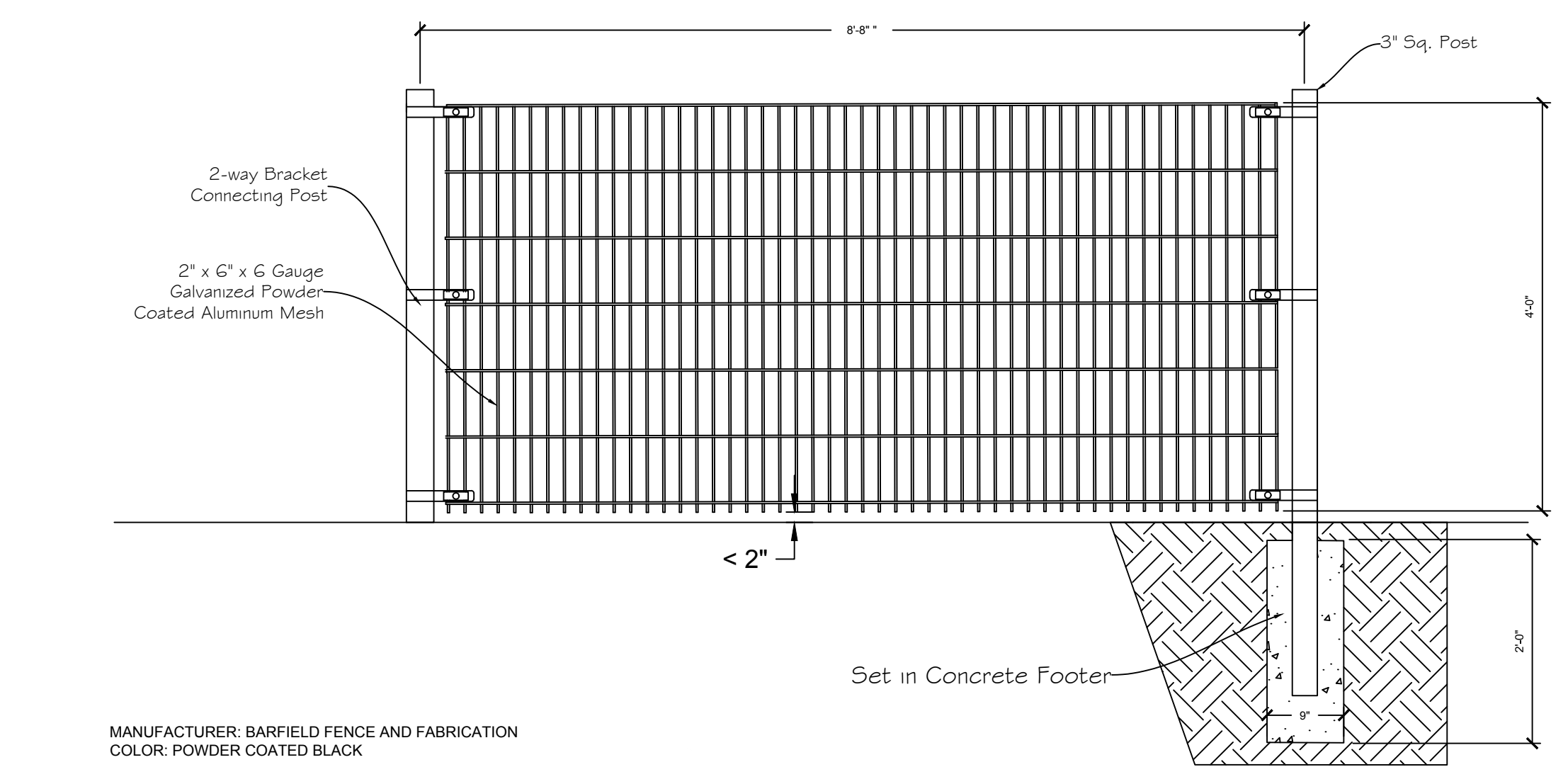
1 DOG PARK ARTIFICIAL TURF P-M2-M11-90

2 PET FOUNTAIN WITH WASH DOWN NTS P-M2-M11-50

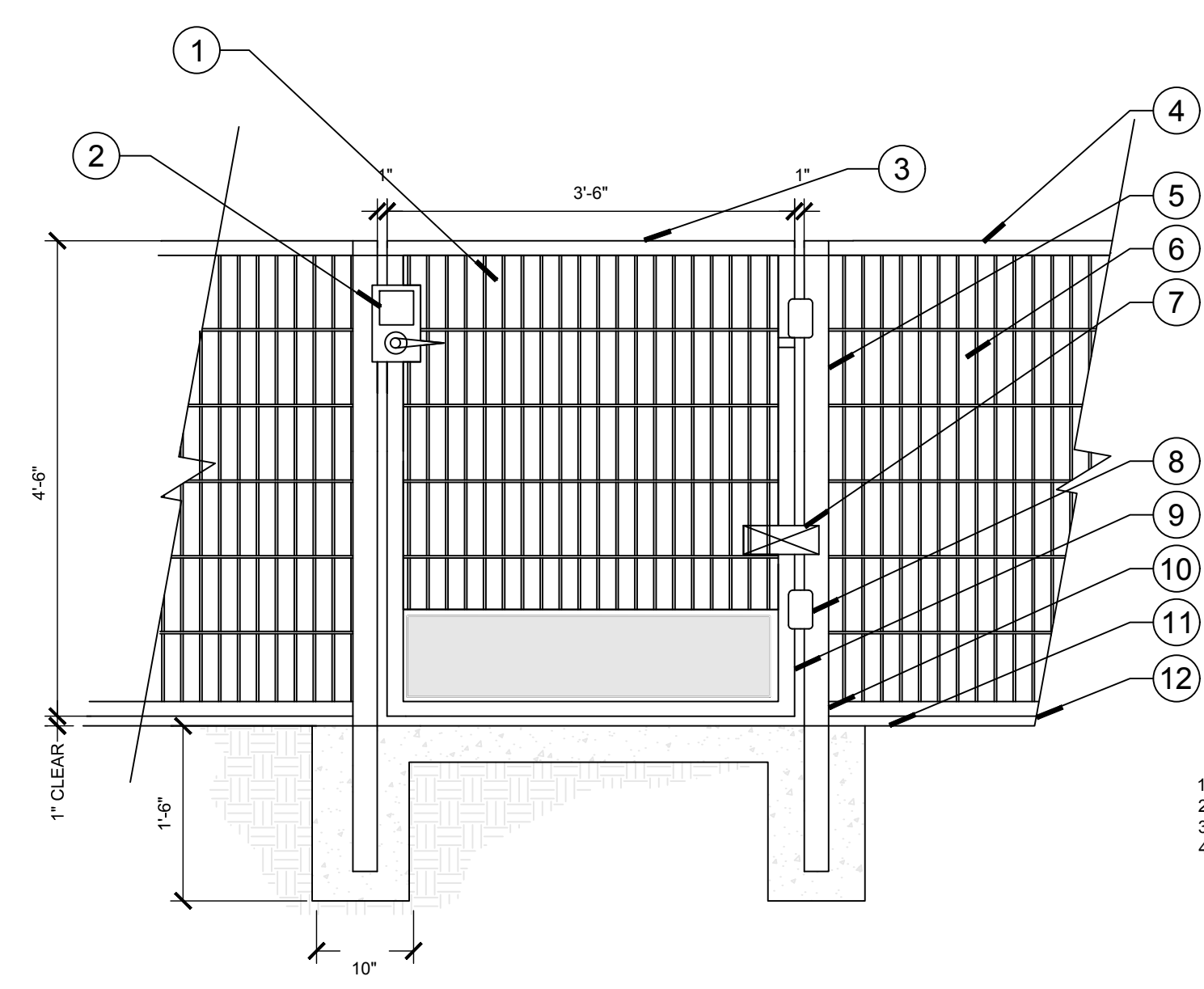
3 FIRE HYDRANT NTS P-M2-M11-68

4 DOUBLE JUMP HOOP NTS P-M2-M11-67

Printed By: Brenda, Jessica Sheet Set: KHA Layout: H-07 January 05, 2023 08:20:03pm K:\km_cad\148651002_milhaus_s129_recounting_s129_recounting\Coord\blab\blab\h07-01_HARDSCAPE_PLAN.dwg
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5 4'-6" DOG PARK FENCE NTS



6 DOG PARK FENCE AND GATE - 4'-6" HT NTS

- 1 PERFORATED ALUMINUM PANEL (AT GATE AND ADJACENT PANELS ONLY) TO PREVENT REACH THROUGH (FLUSH FINISH PAINT TO MATCH FENCE)
 - 2 SIMPLEX L1021 LEVER MECHANICAL PUSHBUTTON LOCK KEY BYPASS
 - 3 TOP OF FENCE TO BE LEVEL WITH FENCE
 - 4 1 1/2" TUBE ALUMINUM RAIL, TOP & BOTTOM
 - 5 4" SQ. TUBE ALUMINUM POST (AT GATE ONLY)
 - 6 2" X 8" X 8 GAUGE GALVANIZED POWDER COATED ALUMINUM MESH
 - 7 LOCINOX MAMMOTH-180 HINGE/CLOSER BY: LOCINOX 877 562 4669
 - 8 (2) SELF CLOSING HINGES (TYP.)
 - 9 1 1/2" SQ. TUBULAR ALUMINUM GATE FRAME
 - 10 SET POST IN CONC. FOOTING
 - 11 FINISH GRADE
 - 12 INSTALL HORIZONTAL RAIL 1" FROM FINISH GRADE
- NOTES:
1. GRIND ALL WELDS SMOOTH
2. ALL METAL PIECES TO BE PREFINISHED ALUMINUM
3. FINISH COLOR TO BE BLACK
4. ALUMINUM PLATES TO BE WELDED TO THE POST WITH A CONTINUOUS 1/4" WELD GROUND SMOOTH AND ALL TO MATCH THE FENCE. ANCHOR SYSTEM TO BE RED HEAD TRU-BOLT WEDGE ANCHOR 1/4" x 2 1/8" WW304S (OR APPROVED EQUAL)
- MANUFACTURER: BARFIELD FENCE AND FABRICATION
COLOR: POWDER COATED BLACK

CALL 2 WORKING DAYS BEFORE YOU DIG

811

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SUNSHINE STATE ONE CALL OF FLORIDA, INC.

GMP SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	DATE	BY

Kimley Horn

LICENSED PROFESSIONAL
JENNIFER L. DAQUILA P.L.A.
200 CENTRAL AVENUE, SUITE 600
ST. PETERSBURG, FL 33701
PHONE: 727-581-9999
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106
FLORIDA LICENSE NUMBER 6667369

KHA PROJECT 148651002	JANUARY 2023	SCALE AS SHOWN	DESIGNED BY KHA	DRAWN BY KHA	CHECKED BY JLD	DATE
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DOG PARK DETAILS

HIGHWAY 82
MULTI-FAMILY
PREPARED FOR
MILHAUS DEVELOPMENT, LLC
CITY OF FORT MYERS, FLORIDA

SHEET NUMBER
H-07

KBR8 LED LED Specification Bollard



Specifications

- Height: 40" (1016 mm)
- Weight: 27 lbs (12.2 kg)

Ordering Information

Model	SKU	Price/Unit	Color/Finish	Quantity	Notes
KBR8 LED	16C	300.00	Black	100	
KBR8 LED	16C	300.00	White	100	

Accessories

Accessory	SKU	Price/Unit
10' Cable	10C	10.00
20' Cable	20C	20.00

One Lithonia Way • Corning, Georgia 30512 • Phone: 1-800-755-5276 • www.lithonia.com

1 LIGHT BOLLARD
NTS
P-MI2-M1-79

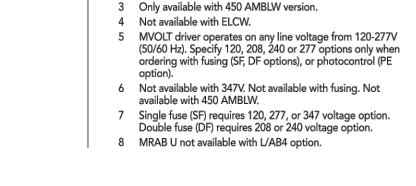
Performance Data

Input Voltage (V)	Output Voltage (V)	Current (A)	Power (W)	Efficiency (%)
120	120	0.15	18	90
240	240	0.075	18	90

Projected LED Lifetime Maintenance

Hours of Operation	Estimated Maintenance Cost
10,000	\$100.00
20,000	\$200.00

Photometric Diagrams



One Lithonia Way • Corning, Georgia 30512 • Phone: 1-800-755-5276 • www.lithonia.com

2 TREE UPLIGHT
NTS
P-MI2-M1-80

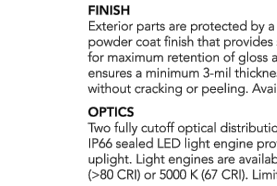
Performance Data

Input Voltage (V)	Output Voltage (V)	Current (A)	Power (W)	Efficiency (%)
120	120	0.15	18	90
240	240	0.075	18	90

Projected LED Lifetime Maintenance

Hours of Operation	Estimated Maintenance Cost
10,000	\$100.00
20,000	\$200.00

Photometric Diagrams



One Lithonia Way • Corning, Georgia 30512 • Phone: 1-800-755-5276 • www.lithonia.com

SPECIFICATION SHEET

MODEL 1045 Architectural Series • Up & Accent

FEATURE SPECIFICATIONS:

DOOR: Die-cast, low copper content, A300 aluminum offers maximum corrosion protection. Stainless steel fasteners affixed to a non-stainless steel fastener door standard. Door is designed to shed water from the lens surface. Also available as an accessory is a die-cast medium impact CL.

HOUSING: Die-cast A300 aluminum. Optic and driver compartment separately sealed while being electrically connected. Housing anodized in a clear finish. Also available as an accessory is a die-cast medium impact CL.

FINISH: Durable powder coat finish available in Black, Architectural Bronze, Dark Bronze, Granite, White, Architectural Black, Light Bronze, Special Bronze, Glossy Gray, Rust, Hunter Green, Weathered Bronze, Weathered Iron, Graphite Metallic, Verdé, Pewter, Mocha and Olive Finish. Custom Powder coat finishes available on request.

LED: Cree® CXA 1830 COB driven at 350mA, 500mA, or 620mA.

COLOR TEMPERATURE: LEDs are offered in 2700K, 3000K, 3500K, 4000K, or 5000K CCT. A300 white 4. app. Cree® Easy White™ bins.

LIGHT DISTRIBUTION: Very Narrow Spot VNS (NEMA S3) (1° FWHM), Narrow Spot NS (NEMA S3) (1° FWHM), Medium Flood MF (NEMA S3) (2° FWHM), and Wide Flood WF (NEMA S3) (2° FWHM).

REFLECTOR: High-purity, vacuum metallized, specular or semi-specular optics designed for maximum performance and uniformity. Very Narrow Spot VNS optic incorporates an internal source shield to eliminate unwanted glare outside the beam pattern.

DIMENSIONS:

ELECTRICAL: Light engine consist of high efficiency LEDs mounted to metal core circuit board to maximize heat dissipation and provide long life (50,000 hours at 70°C at 27°C). Class 2 drivers are designed for an expected life of 100,000 hours with a 1% failure rate. Electrical components are mounted on a non-flammable PCB.

LISTINGS: CSA certified to U.S. and Canadian standards. Light engine are IP68 rated. Rated for 24°C minimum ambient. Cold weather emergency battery backup rated for 24°C minimum ambient.

BY AMERICAN: Manufactured and assembled in the USA and meets the Buy American government procurement requirements under DFARS, FAR and DOD. Please refer to our website for additional information.

WARRANTY: Five-year limited warranty. This is the only warranty provided and all other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms are available at www.lithonia.com/customer-service/terms-and-conditions.aspx.

NOTE: Actual performance may differ as a result of air environment and application. All values are design or typical values, measured under laboratory conditions at 25°C. Specifications subject to change without notice.

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3 FESTOON LIGHTING
NTS
P-MI2-M1-81

SPECIFICATION SHEET

MODEL 5106 Landscape Series • Up & Accent

FIXTURE ORDERING INFORMATION:

TO ORDER FIXTURE, Select appropriate choice from each column as in the following example.

EXAMPLE: GR-5106-SB-24-WF-R

Mounting	Model	Finish	Wattage	Color Temp	Accessories
GR-ABS ground stake	5106	Standard	2	W- Warm	FR- Frosted Lens
TR- Tree mount J-box		B- Black	3	N- Neutral	
WB- Wall mount canopy		Z- Architectural Bronze	4	C- Cool	
		DT- Dark Bronze			
		OT- Olive			
		W- White			

PHYSICAL DIMENSIONS FINISH:

ORDERING:

PART NUMBER: RISE-MS-18-VIS3

DESCRIPTION: TREE MOUNT WITH STRAP FOR TREE MOUNTED LIGHTING APPLICATIONS (TEXTURED STRAP) FOR USE WITH F10 SINGLE HEAD ONLY. NOT FOR USE WITH MULTI-HEAD FIXTURE (UNTESTED)

ECOSENSE LIGHTING INC.
631 FORTY EIGHT STREET
SUITE 100
LOS ANGELES, CA 90002

• 310-496-8258
• 310-496-8256
• 800-232-8756
• 855-8-ECOSENSE

www.ecosenselighting.com 1/1

4 SIGN UPLIGHT
NTS
P-MI2-M1-85

SPECIFICATION SHEET

MODEL 1045 Architectural Series • Up & Accent

FIXTURE ORDERING INFORMATION:

TO ORDER FIXTURE, Select appropriate choice from each column as in the following example.

EXAMPLE: 1045-GG-NS-40-CAV-AN-HS

Model	Finish	Distribution	Color Temp	Delivered Lumens	Voltage	Dimming	Accessories
VNS	Standard	VNS- Very Narrow Spot	27- 2700K	A- 1100-1500	MF- Multi-Volt	ND- No Dimming	FR- Frosted Lens
B- Black	NS- Narrow Spot	NS- Narrow Spot	30- 3000K	B- 1500-1900	D10- 0-10V	PCT- Phase Cut	PS- Full Light Shield
Z- Architectural Bronze	MF- Medium Flood	MF- Medium Flood	35- 3500K	C- 1900-2400	100V-277V	TRAC (120V only)	PS- Full Light Shield
DT- Dark Bronze	WF- Wide Flood	WF- Wide Flood	40- 4000K				MT- Mount (EM, spot cable with measured wire length)
W- White			50- 5000K				HL- Honeycomb Lens

LUMEN OUTPUT PACKAGES

Beam Spread	A	B	C
VNS	23.0 Watts	26.0 Watts	28.0 Watts
NS	1141 Lumens	1407 Lumens	1575 Lumens
MF	1302 Lumens	1683 Lumens	2321 Lumens
WF	1249 Lumens	1627 Lumens	2250 Lumens

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5 TREE MOUNT
NTS
P-MI2-M1-86

SPECIFICATION SHEET

MODEL 5106 Landscape Series • Up & Accent

FIXTURE ORDERING INFORMATION:

TO ORDER FIXTURE, Select appropriate choice from each column as in the following example.

EXAMPLE: GR-5106-SB-24-WF-R

Mounting	Model	Finish	Wattage	Color Temp	Accessories
GR-ABS ground stake	5106	Standard	2	W- Warm	FR- Frosted Lens
TR- Tree mount J-box		B- Black	3	N- Neutral	
WB- Wall mount canopy		Z- Architectural Bronze	4	C- Cool	
		DT- Dark Bronze			
		OT- Olive			
		W- White			

PHYSICAL DIMENSIONS FINISH:

ORDERING:

PART NUMBER: RISE-MS-18-VIS3

DESCRIPTION: TREE MOUNT WITH STRAP FOR TREE MOUNTED LIGHTING APPLICATIONS (TEXTURED STRAP) FOR USE WITH F10 SINGLE HEAD ONLY. NOT FOR USE WITH MULTI-HEAD FIXTURE (UNTESTED)

ECOSENSE LIGHTING INC.
631 FORTY EIGHT STREET
SUITE 100
LOS ANGELES, CA 90002

• 310-496-8258
• 310-496-8256
• 800-232-8756
• 855-8-ECOSENSE

www.ecosenselighting.com 1/1

6 SIGN UPLIGHT
NTS
P-MI2-M1-85

LIGHTING DETAILS

RISE TREE MOUNT

STRAP (26.4MM WIDE X 7.62MM LONG FOR 27.133MM DIAMETER TREE)
STRAP-OLIVE GREEN, HARDWARE-TEXTURED BRONZE

Stainless Steel
Bracket Buckle

Nylon Strap
72" Fits up to 82" trees

Single Mount Hole Option
Cast Aluminum Junction Box

ORDERING:

PART NUMBER: RISE-MS-18-VIS3

DESCRIPTION: TREE MOUNT WITH STRAP FOR TREE MOUNTED LIGHTING APPLICATIONS (TEXTURED STRAP) FOR USE WITH F10 SINGLE HEAD ONLY. NOT FOR USE WITH MULTI-HEAD FIXTURE (UNTESTED)

ECOSENSE LIGHTING INC.
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LOS ANGELES, CA 90002

• 310-496-8258
• 310-496-8256
• 800-232-8756
• 855-8-ECOSENSE

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DIAL 811

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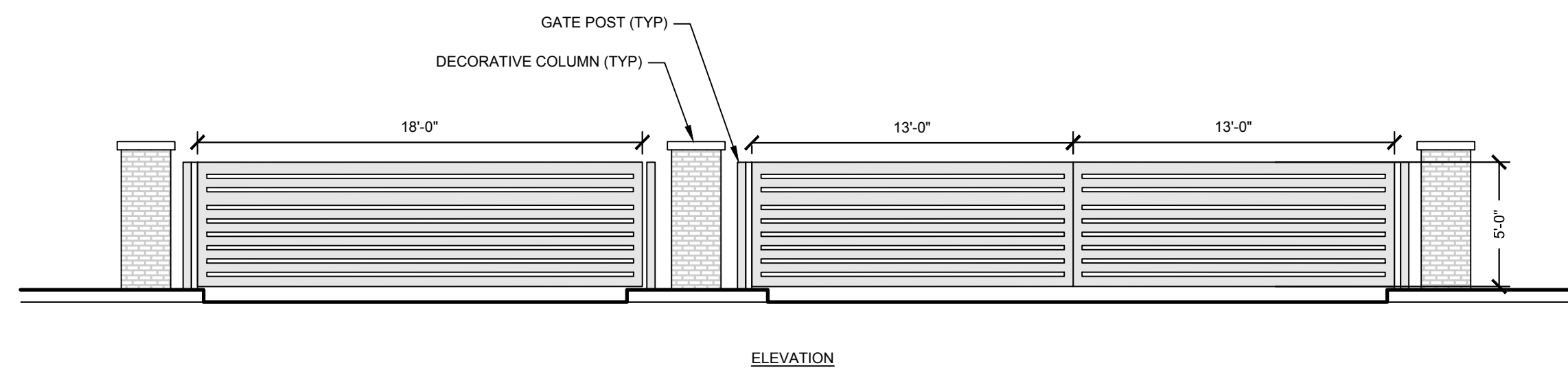
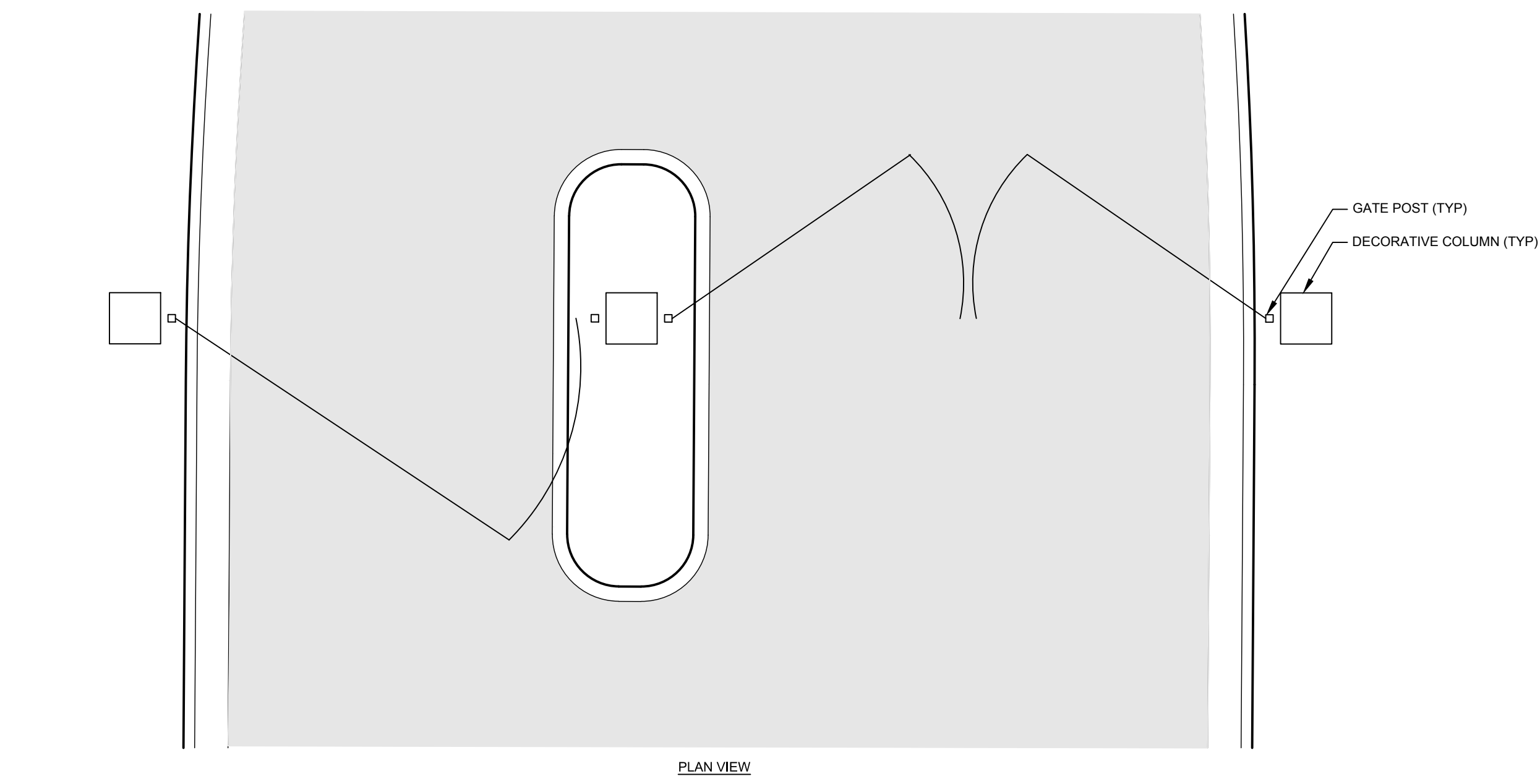
HIGHWAY 82 MULTI-FAMILY PREPARED FOR MILHAUS DEVELOPMENT, LLC CITY OF FORT MYERS, FLORIDA

SHEET NUMBER H-08

Project: B. Brand, Jessica, Sheet: H-08, January 05, 2023, 08:20:49pm, K:\km\cull\146651002_milhaus_82_22_reconing_8_she\sheeting\Conf\sheeting\H-01_MILHAUS-SCALE_PLAN.dwg
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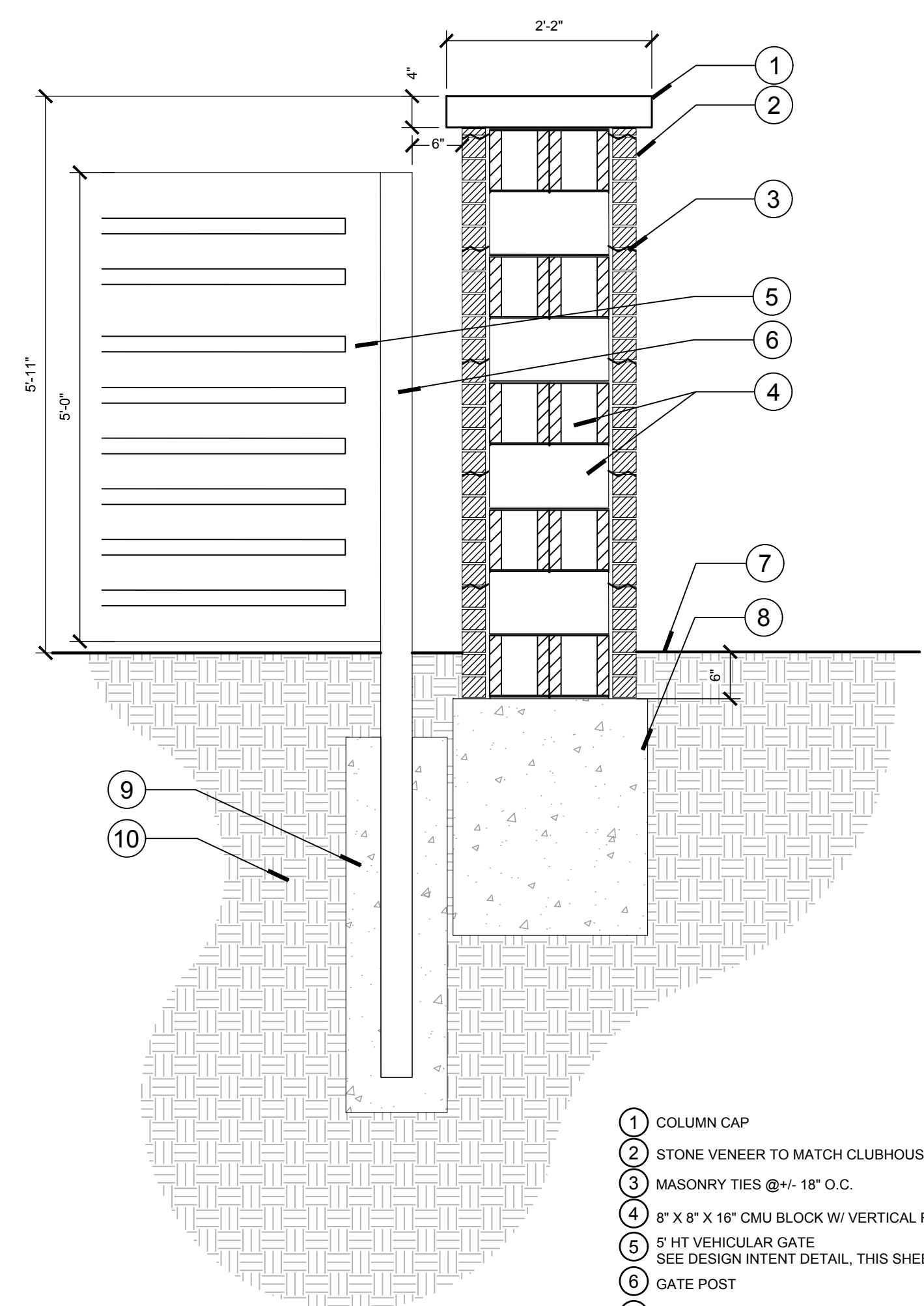
NO.	REVISIONS	DATE	BY

Printed By: Brenda, Jessica, Sheet Set: KHA, Layout: 14-09, January 05, 2023, 10:20:59am, K:\In\cadd\148651002 - milhaus s12 - roadwork & site planning\Coord\blanckshel\14-01 HARDSCAPE PLAN.dwg
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NOTES:

- GATES ARE DESIGN INTENT ONLY. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF GATES FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- GATE AND COLUMN STRUCTURE ARE SEPARATE AND NOT ATTACHED TO ONE ANOTHER.
- GATE COLOR TO BE BLACK.



- 1 COLUMN CAP
 - 2 STONE VENEER TO MATCH CLUBHOUSE ARCHITECTURE
 - 3 MASONRY TIES @ +/- 18" O.C.
 - 4 8" X 8" X 16" CMU BLOCK W/ VERTICAL REINFORCEMENT
 - 5 5' HT VEHICULAR GATE
SEE DESIGN INTENT DETAIL, THIS SHEET
 - 6 GATE POST
 - 7 FINISHED GRADE
 - 8 CONCRETE FOOTING, CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR FOOTINGS
 - 9 GATE POST FOOTING, REF. SHOP DRAWINGS
 - 10 COMPACTED SUBGRADE
- NOTE: CONTRACTOR TO PROVIDE SHOP DRAWINGS AND SPECIFICATIONS FOR VEHICULAR GATE AND FOR LIFTMASTER HIGH-TRAFFIC COMMERCIAL SWING GATE OPERATOR AND SUBMIT TO OWNER FOR REVIEW AND APPROVAL.

1 VEHICULAR GATES (DESIGN INTENT)
H-09 3/16" = 1'-0" P-MI2-MI1-88

2 DECORATIVE COLUMN
H-09 3/4" = 1'-0" P-MI2-MI1-89

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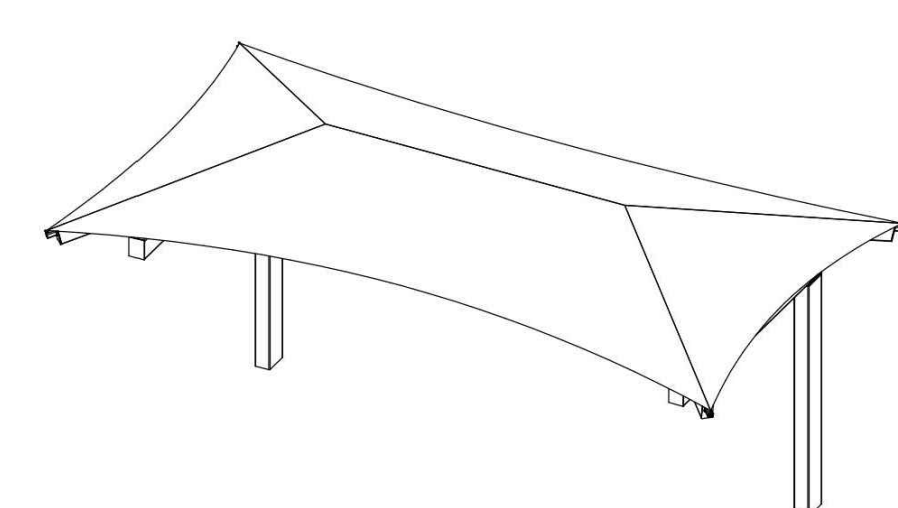
Kimley-Horn 200 CENTRAL AVENUE, SUITE 600 ST. PETERSBURG, FL 33701 PHONE: 727-581-1199 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106	
LICENSED PROFESSIONAL JENNIFER L. DAQUILAS P.L.A. FLORIDA LICENSE NUMBER: 6667369	
KHA PROJECT 148651002	DATE JANUARY 2023
SCALE AS SHOWN	DESIGNED BY KHA
DRAWN BY KHA	CHECKED BY JLD
VEHICULAR GATE DETAILS	
HIGHWAY 82 MULTI-FAMILY PREPARED FOR MILHAUS DEVELOPMENT, LLC CITY OF FORT MYERS, FLORIDA	
SHEET NUMBER H-09	
No.	REVISIONS
DATE	BY

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poligon
FABRIC

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PROJECT: _____
LOCATION: _____
BUILDING TYPE: ICANH-12X22
ROOF TYPE: _____



DRAWING LIST:

SHEET NUMBER	DRAWING DESCRIPTION
CS	COVER SHEET
1	ARCHITECTURAL ELEVATIONS
2	STRUCTURAL FRAMING PLAN
3	COLUMN LAYOUT

FABRICATOR APPROVALS:
CITY OF PASCAGO, TX APPROVED FABRICATOR #C08-2010
CITY OF LOS ANGELES, CA APPROVED FABRICATOR #1696
CITY OF HOUSTON, TX APPROVED FABRICATOR #2028-0033
CITY OF HOUSTON, TX APPROVED FABRICATOR #470
CLARK COUNTY, NV APPROVED FABRICATOR #264
STATE OF UTAH APPROVED FABRICATOR #2008-14

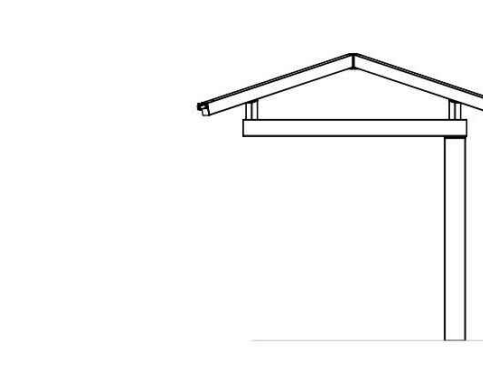
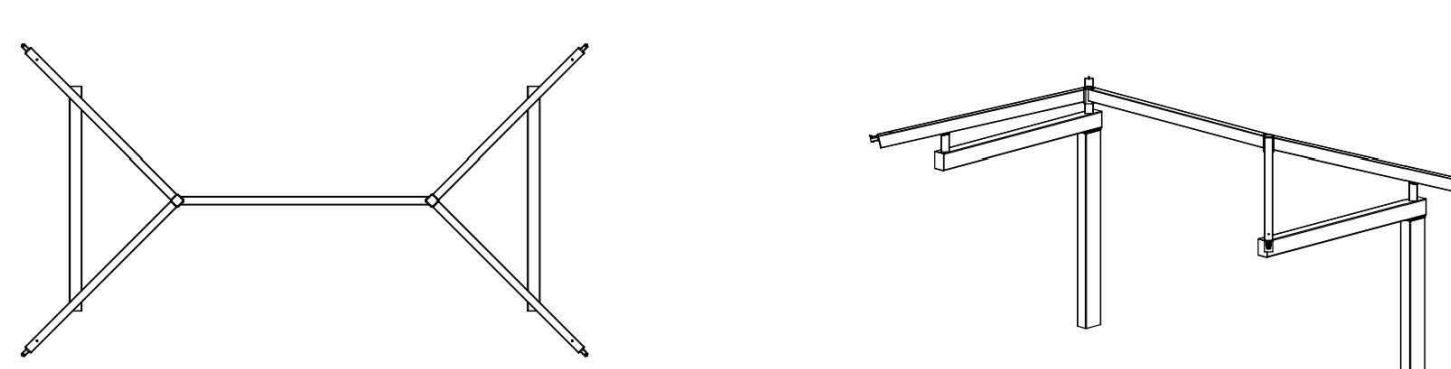
CERTIFICATES:
INDIANIA COUNTY CERTIFICATE OF COMPETENCY NO. 16-1026-01
PCI POWDER COATING INSTITUTE #500 CERTIFIED

MATERIALS:
DESCRIPTION: _____
SHEET METAL TYPE: _____
SHEET SIZE: _____
SHEET WEIGHT: _____
SHEET AREA: _____
SHEET LENGTH: _____
SHEET WIDTH: _____

GENERAL NOTES:
UNLESS NOTED OTHERWISE, THIS STRUCTURE WAS DESIGNED TO BE USED TOGETHER WITH AN ADJACENT STRUCTURE. POLYGON MUST BE CONTACTED FOR ANYTHING ELSE TO BE ATTACHED TO THIS STRUCTURE (WALLS, COLUMN WRAPS, BALUNES, ETC.) THE DESIGN OF THIS STRUCTURE CAN BE REVIEWED AND POSSIBLY REVISED.
UNLESS NOTED OTHERWISE, THIS STRUCTURE WAS DESIGNED ASSUMING A 2' SEPARATION BETWEEN ANY ADJACENT STRUCTURE WITH AN EQUAL HEIGHT TO THAT OF THIS STRUCTURE. IF THE SEPARATION DOES NOT EXIST, POLYGON MUST BE CONTACTED TO REVISE THE DESIGN OF THIS STRUCTURE TO ACCOMMODATE THE ADJACENT STRUCTURE.
STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION MANUAL.

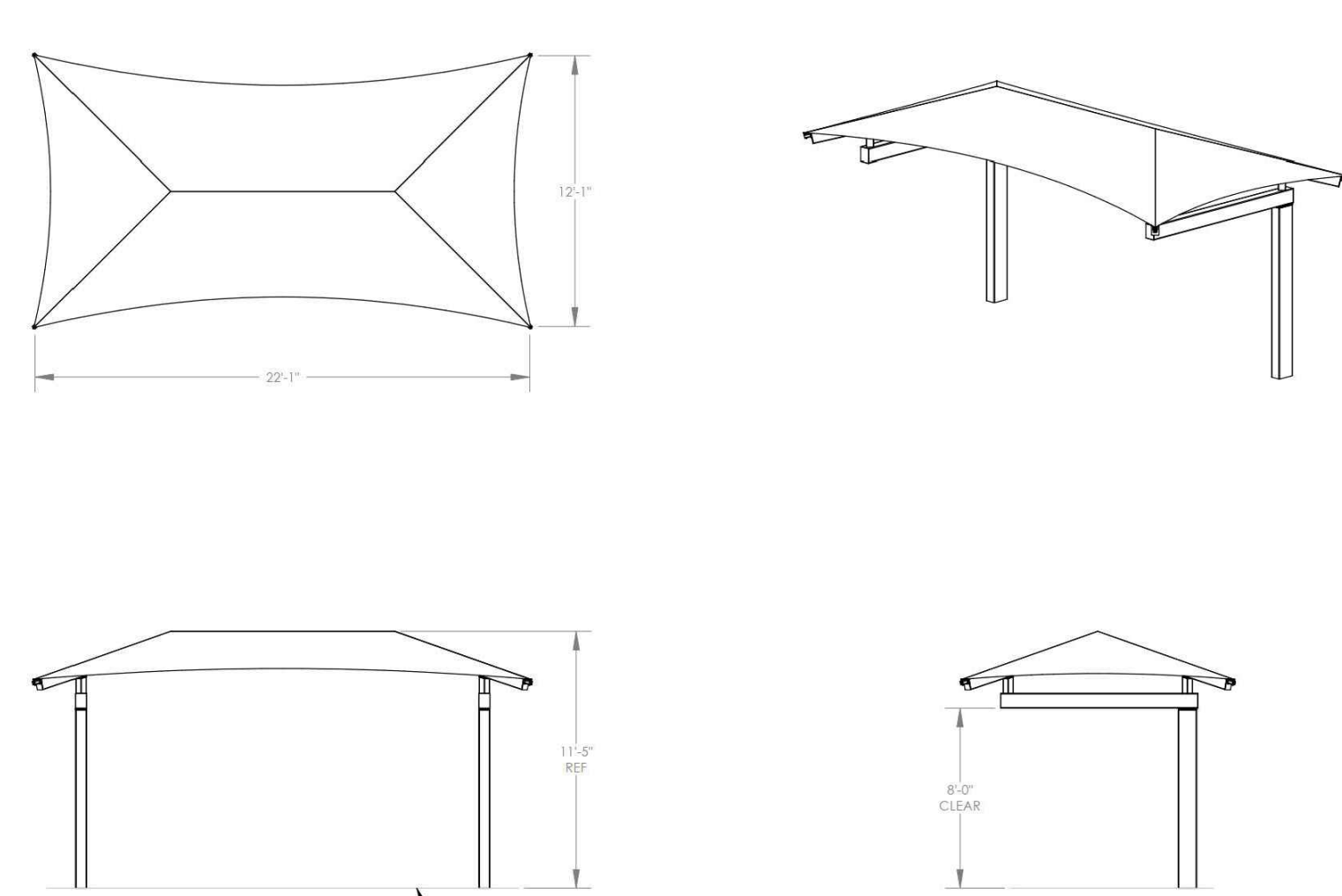
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poligon by PORTERCORP 2



STOP!!
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poligon by PORTERCORP 1

BASEPLATE NOTES:

- POLYGON ENGINEERING WILL DETERMINE REQUIRED BASEPLATE DESIGN AFTER ENGINEERING PACKAGE IS ORDERED.
- CUSTOMER MAY SUGGEST PREFERRED BASEPLATE DESIGN.



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1
H-10

DOG PARK SHADE SAIL

P-MI2-MI1-91

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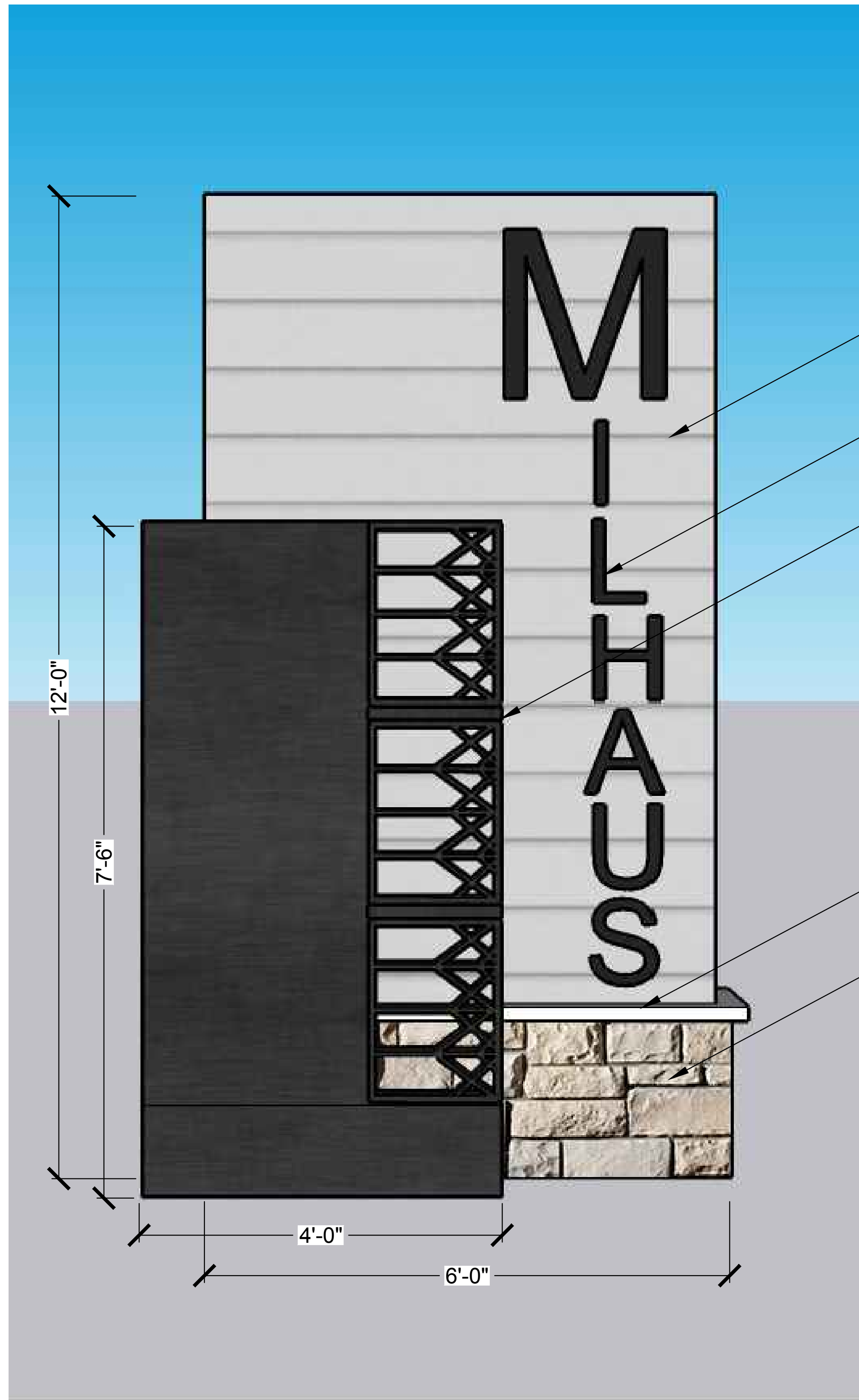
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KIMLEY-HORN & ASSOCIATES, INC. 200 CENTRAL AVENUE, SUITE 600 ST. PETERSBURG, FL 33701 PHONE: 727-561-9999 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106				
LICENSED PROFESSIONAL JENNIFER L. DAQUILA P.L.A. FLORIDA LICENSE NUMBER 6667369				
KHA PROJECT 148651002	DATE JANUARY 2023	SCALE AS SHOWN	DESIGNED BY KHA	CHECKED BY KHA
SHADE SAIL DETAILS				
HIGHWAY 82 MULTI-FAMILY PREPARED FOR MILHAUS DEVELOPMENT, LLC CITY OF FORT MYERS FLORIDA				
SHEET NUMBER H-10				

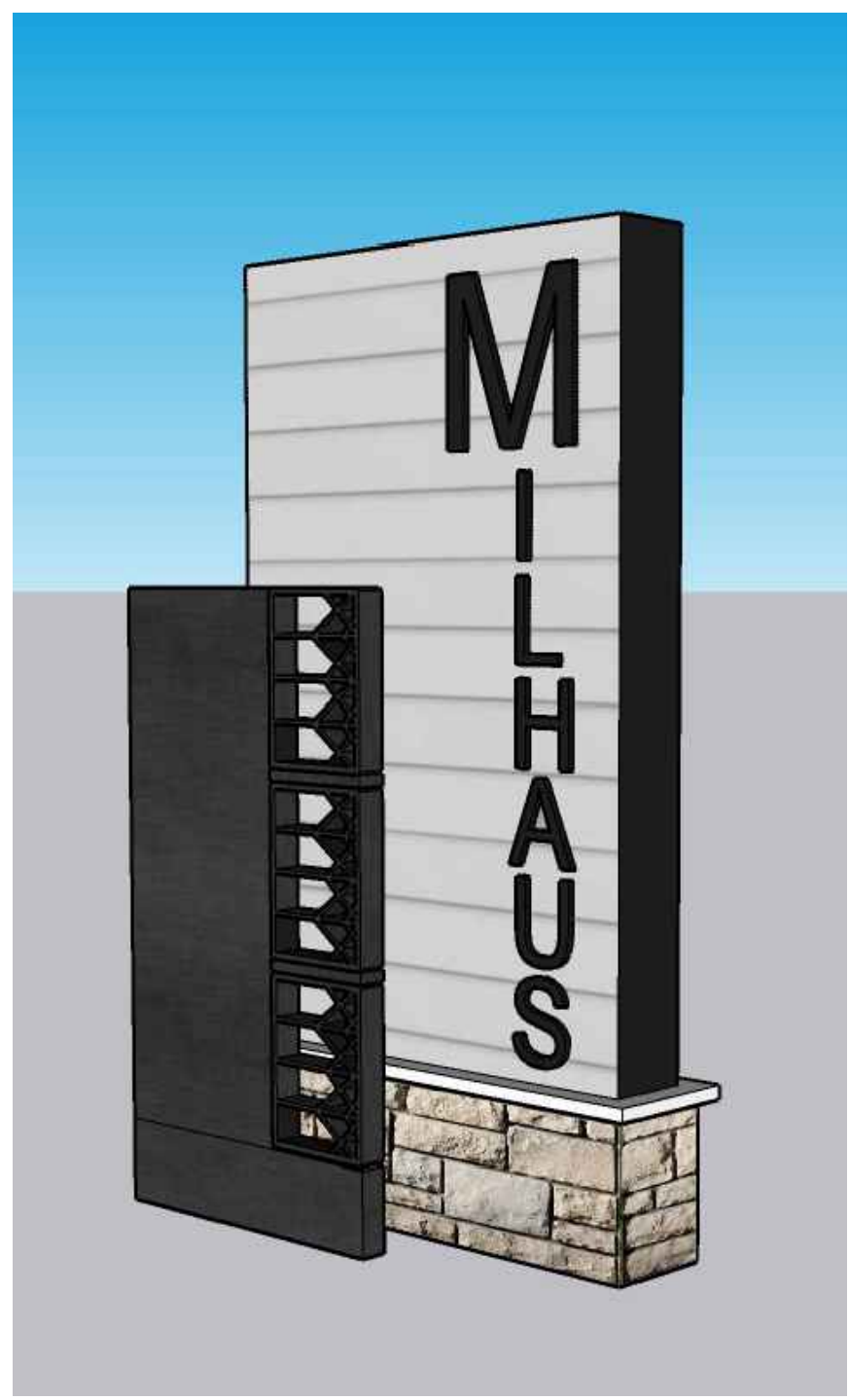
Plotted By: Brand, Jessica - Sheet Set: KHA - Layout: 11 - January 05, 2023 08:20:53pm - K:\m\c\h\148651002 - milhaus - s\2 - reworking & site planning\Coordination\KHA\11\HARDSCAPE PLAN.dwg
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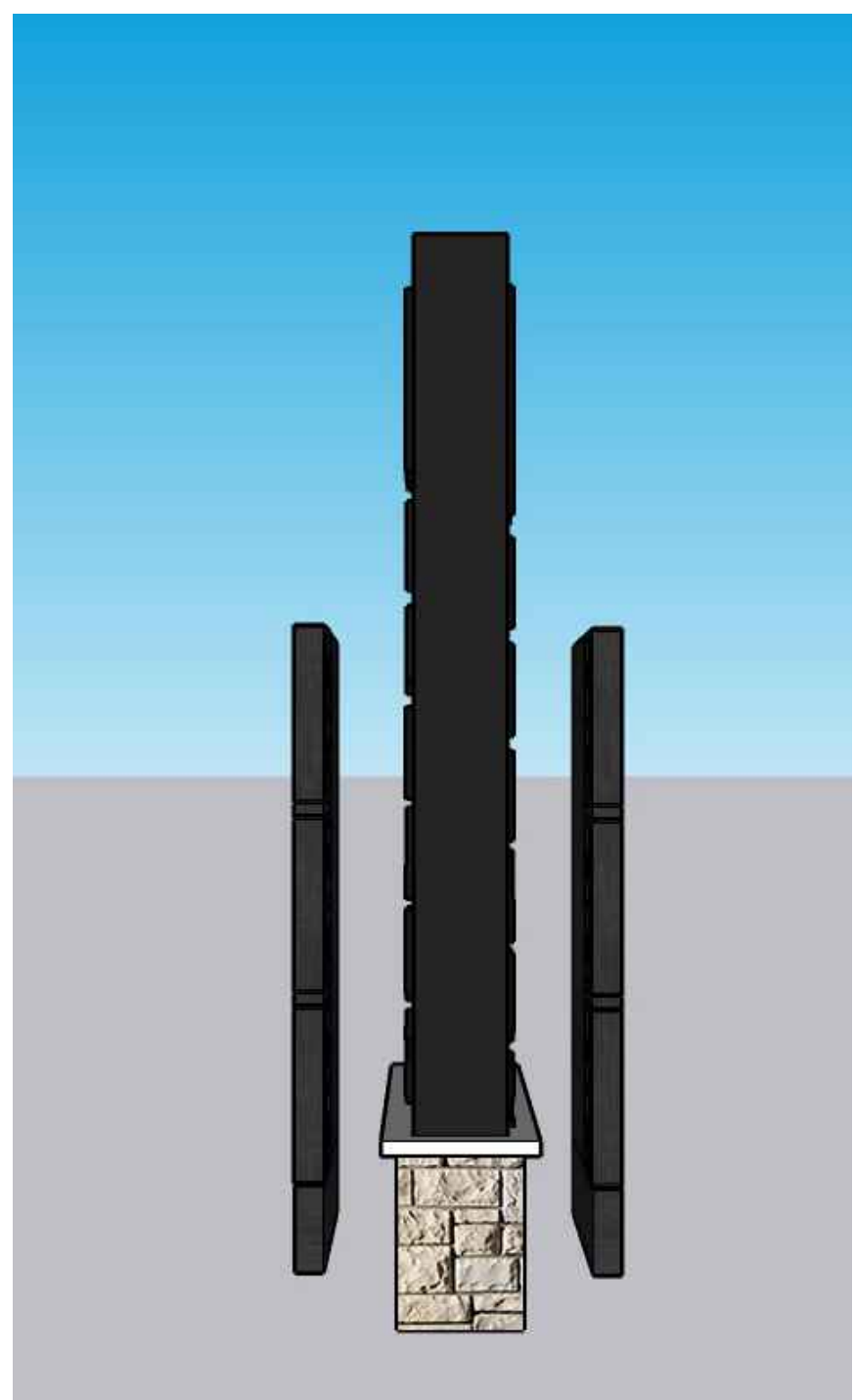
FRONT ELEVATION

- ARCTIC WHITE PLANK BY JAMES HARDIE (TO MATCH CLUBHOUSE).
- PIN MOUNTED LETTERS TO MATCH ALUMINUM PANEL.
- BLACK BRUSHED ALUMINUM PANEL WITH LASER CUT DESIGN. LASER CUT DESIGN TBD.

- WHITE CONCRETE CAP
- CENTURION STONE RUBBLE (TO MATCH CLUBHOUSE).



PERSPECTIVE



SIDE ELEVATION

SIGN CONSTRUCTION DOCUMENTS BY DON BELL SIGNS. SEE BELOW FOR CONTACT INFORMATION.

Mandy Moore | Corporate Sales
 365 Oak Place | Port Orange | 32127
 (O) 386-763-4765 | (C) 386-547-6353
[Click here to see what we do!](#)



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Kimley-Horn
 200 CENTRAL AVENUE, SUITE 600
 ST. PETERSBURG, FL 33701
 PHONE: 727-581-9999
 WWW.KIMLEY-HORN.COM REGISTRY NO. 39106

KHA PROJECT 148651002	LICENSED PROFESSIONAL
DATE JANUARY 2023	JENNIFER L. DAQUILA P.L.A.
SCALE AS SHOWN	FLORIDA LICENSE NUMBER 6667369
DESIGNED BY KHA	J.I.D.
DRAWN BY KHA	CHECKED BY KHA
	DATE

**MONUMENT SIGN
 DESIGN INTENT**

HIGHWAY 82
 MULTI-FAMILY
 PREPARED FOR
 MILHAUS DEVELOPMENT,
 LLC
 CITY OF FORT MYERS, FLORIDA

SHEET NUMBER
H-11