

Hillside Grove

PHASE 1 - COMMUNITY LANDSCAPE ARCHITECTURE

Prepared For:

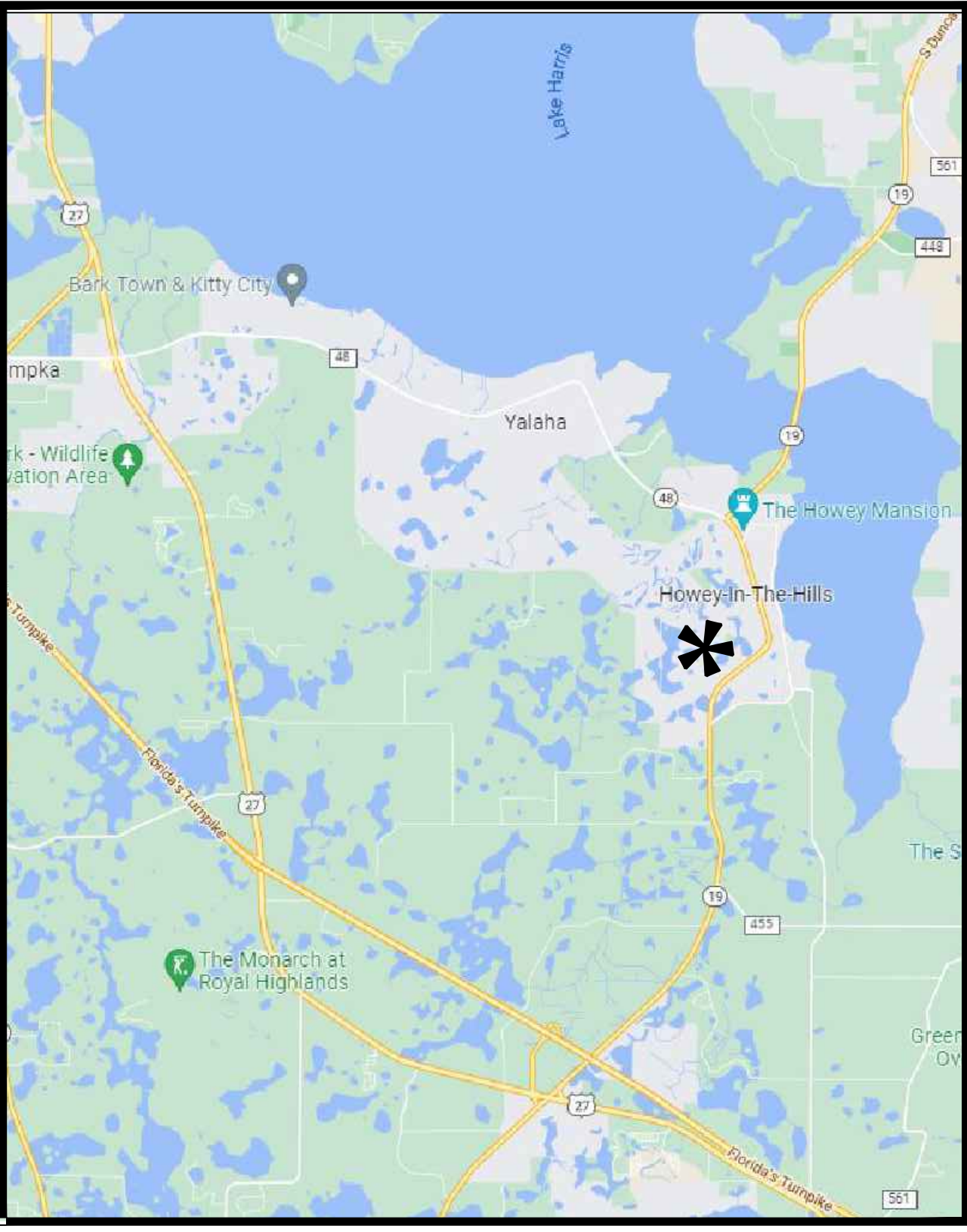
EASTON & ASSOCIATES
HOWEY-IN-THE-HILLS, FLORIDA

DEVELOPER/OWNER:
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10165 NW 19th ST
Miami, FL 33172

PROJECT CIVIL ENGINEER:
CONNELLY & WICKER, INC.
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Jacksonville, FL 32246
Contact: Rick Welch, P.E.
phone: 904.265.3030

LANDSCAPE ARCHITECT:
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400 South Orlando Ave. Suite 201
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Contact: Todd W. Bonnett, RLA, LEED AP, CNU-a
phone: 407.622.1588

IRRIGATION DESIGNER:
SPADE IRRIGATION DESIGN
307 Dubsdread Circle
Orlando, Florida 32804
Contact: Larry W. Spade, PLA, CID
phone: 407.896.3904



LOCATION MAP
not to scale

SHEET INDEX:

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Applicable Codes, Regulations, Ordinances and Standards

Town of Howey-In-the-Hills

Rev A City Comments 2023-06-26
Rev A City Comments 2022-11-17
Rev A City Comments 2022-09-29
May 27, 2022

2021.195



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landscape architecture . community planning
FL # LC26000341
400 South Orlando Ave. Suite 201 . Maitland, FL 32751
407.622.1588 voice . 407.358.5363 fax
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THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

TODD W. BONNETT, RLA

ON THE DATE ADJACENT TO THE SEAL.



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MAITLAND, FL 32751
FLORIDA REGISTRY: BONNETT DESIGN GROUP, LLC LA0001718
TODD W. BONNETT, RLA, FL LA0001718

THE ABOVE NAMED PROFESSIONAL LANDSCAPE ARCHITECT SHALL BE RESPONSIBLE
FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G10-11.011, F.A.C.

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Easton
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PHASE 1

DATE: May 27, 2022

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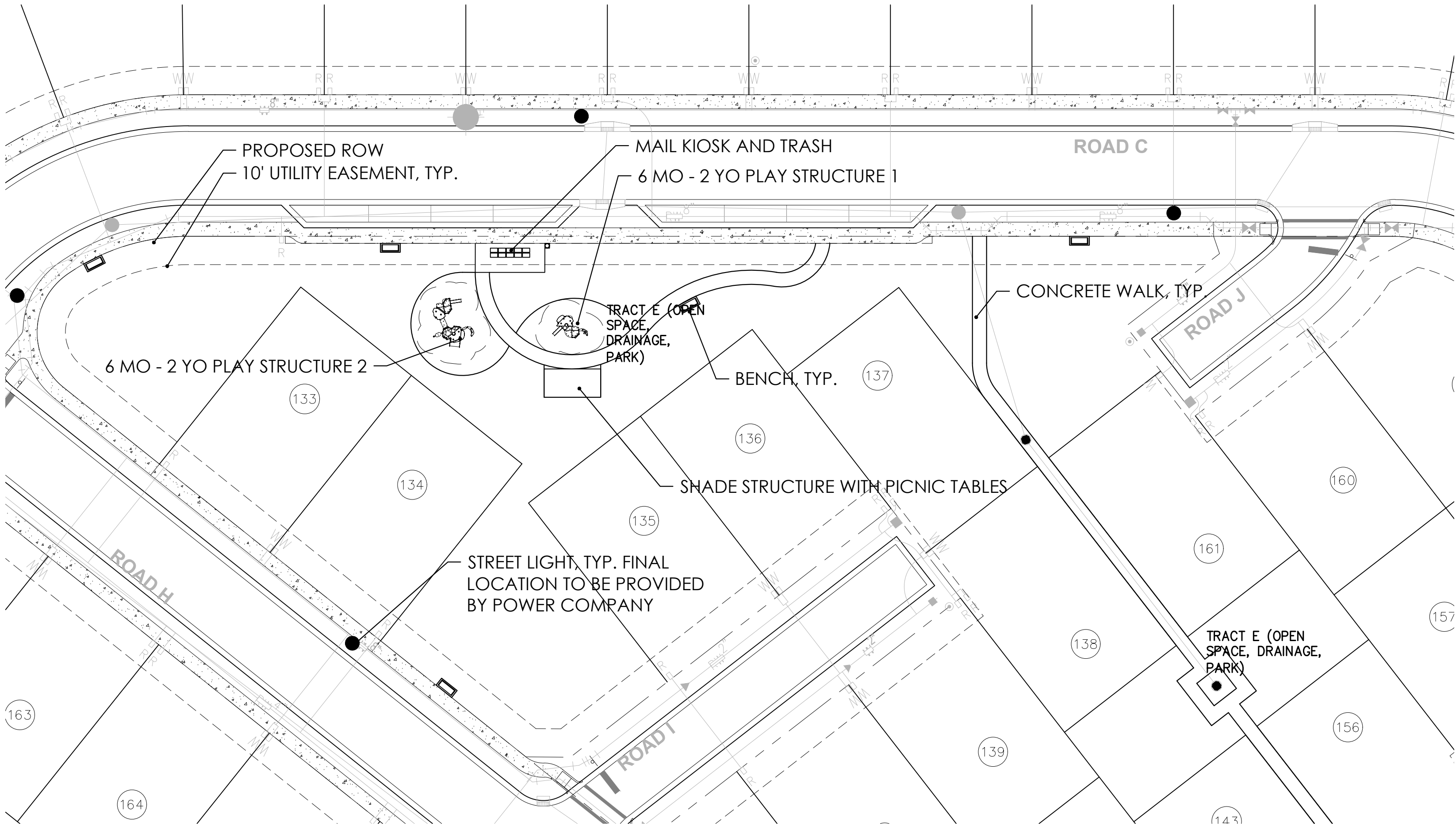
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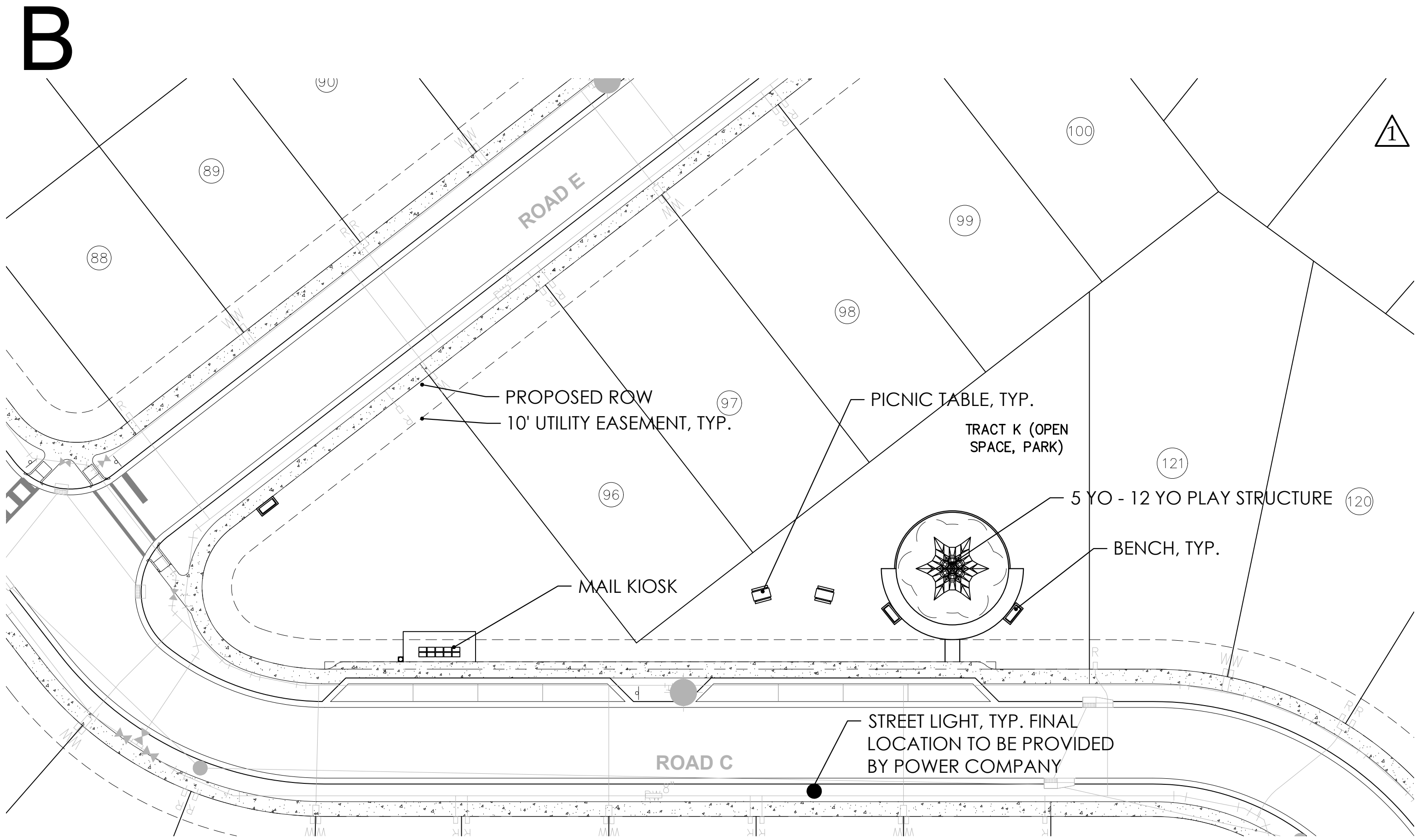
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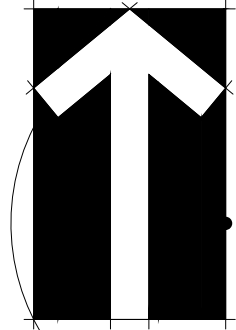
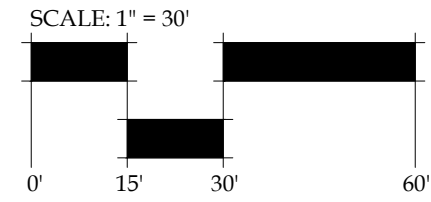
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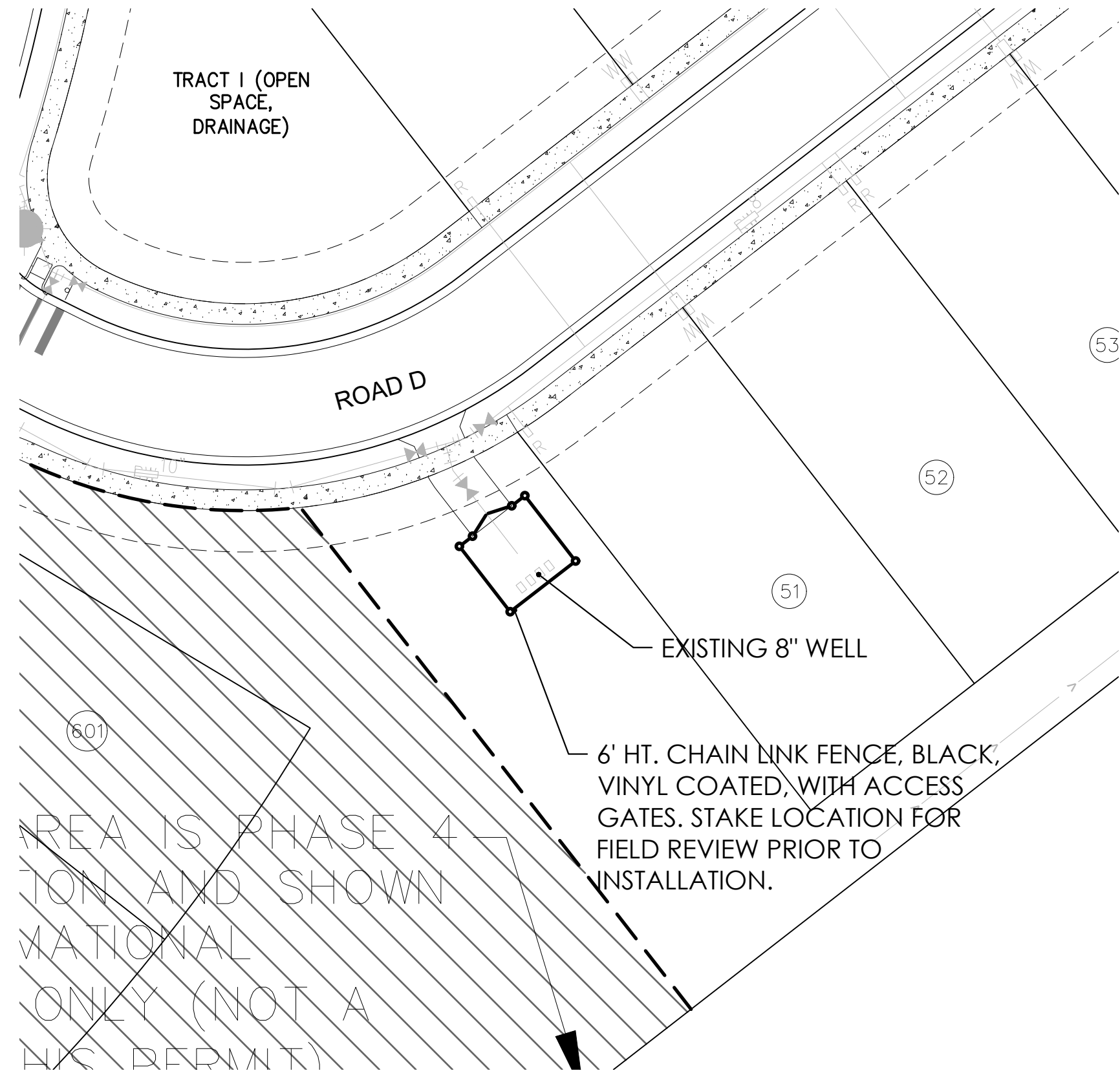
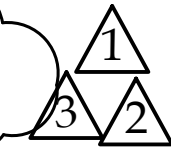
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KEY MAP



SITE PLAN UPDATE



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LAYOUT PLAN

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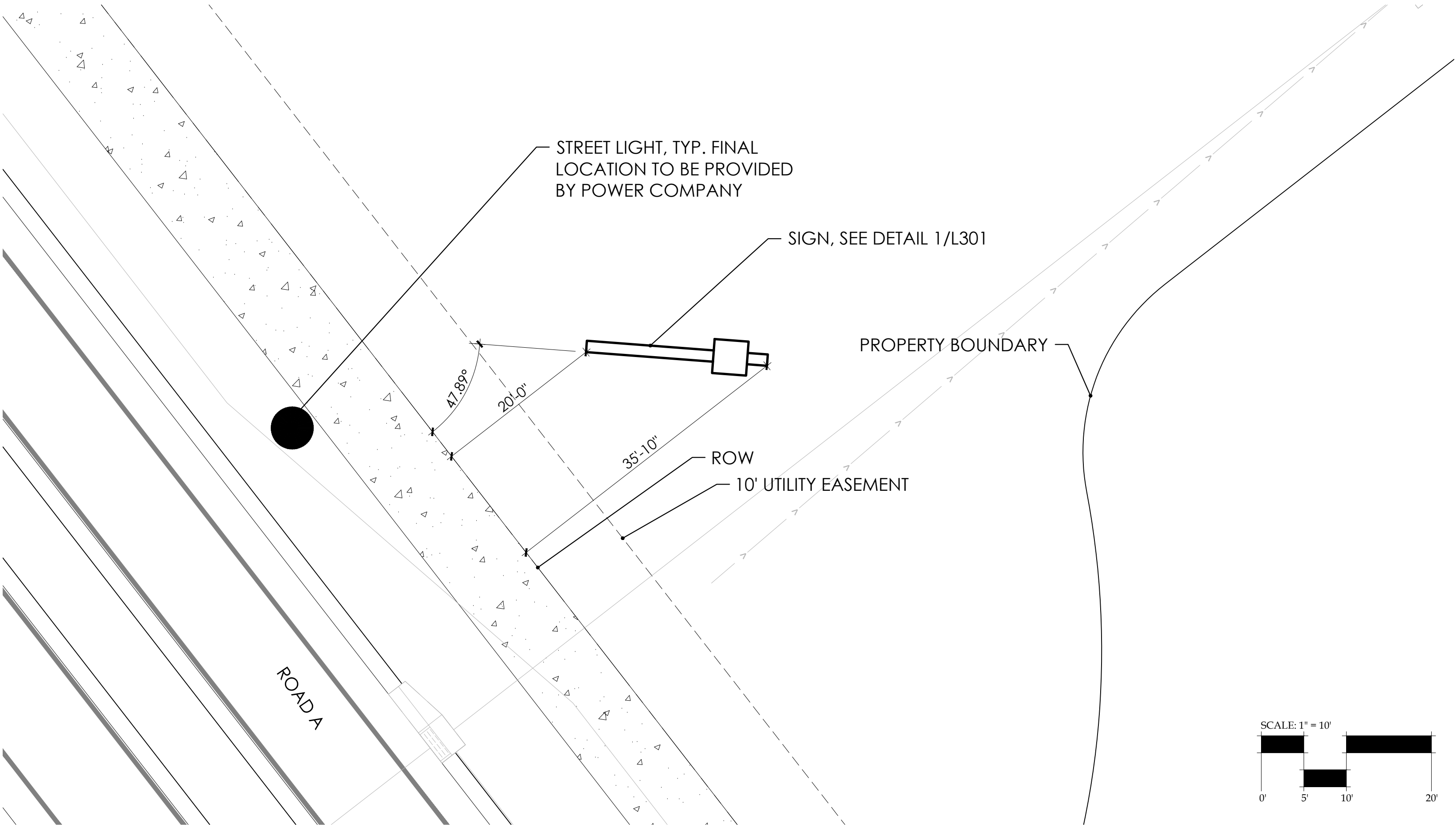
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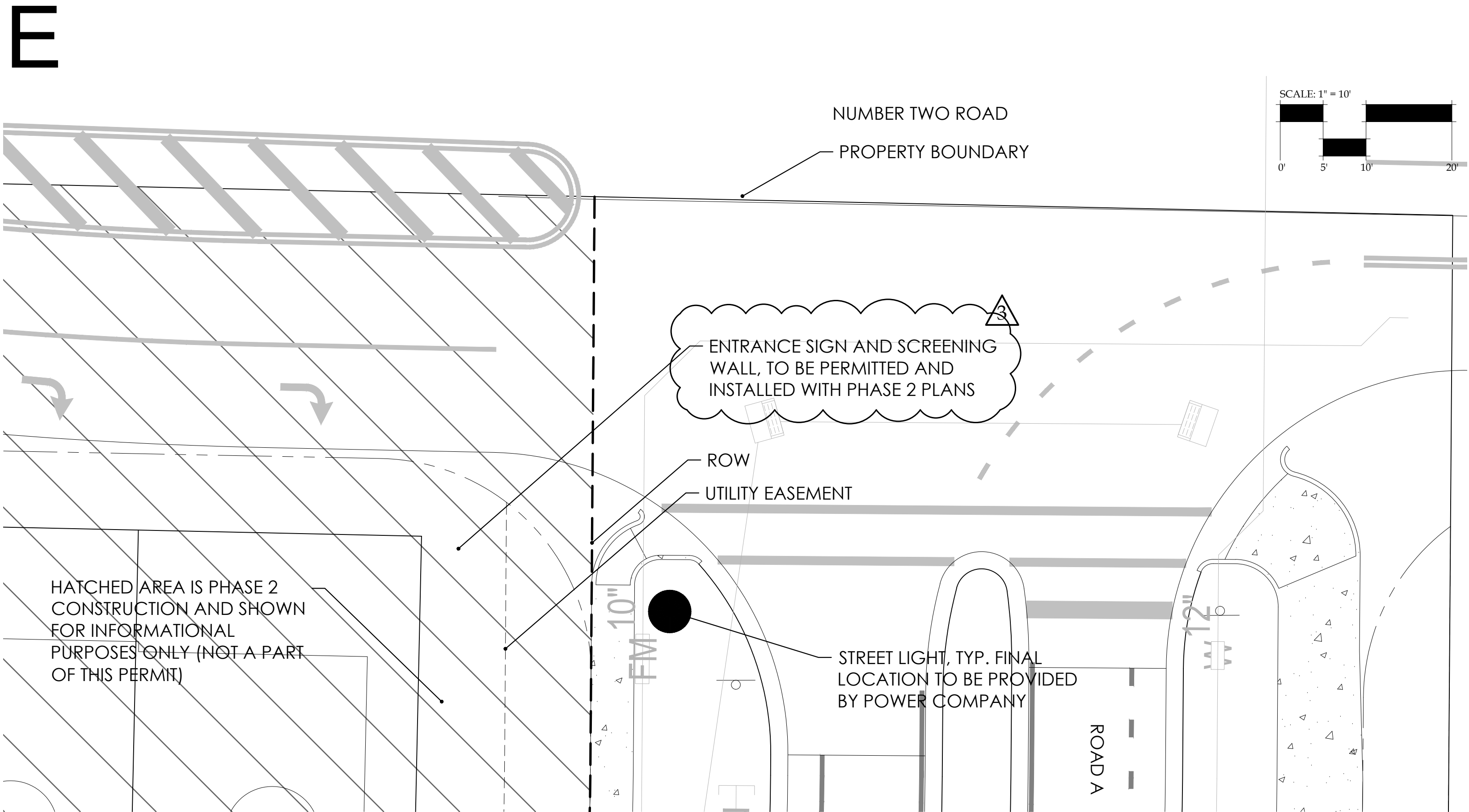
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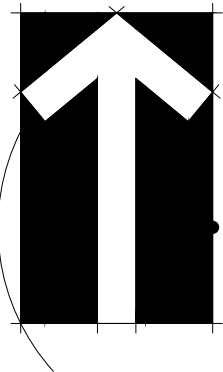
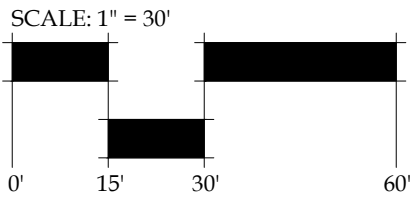
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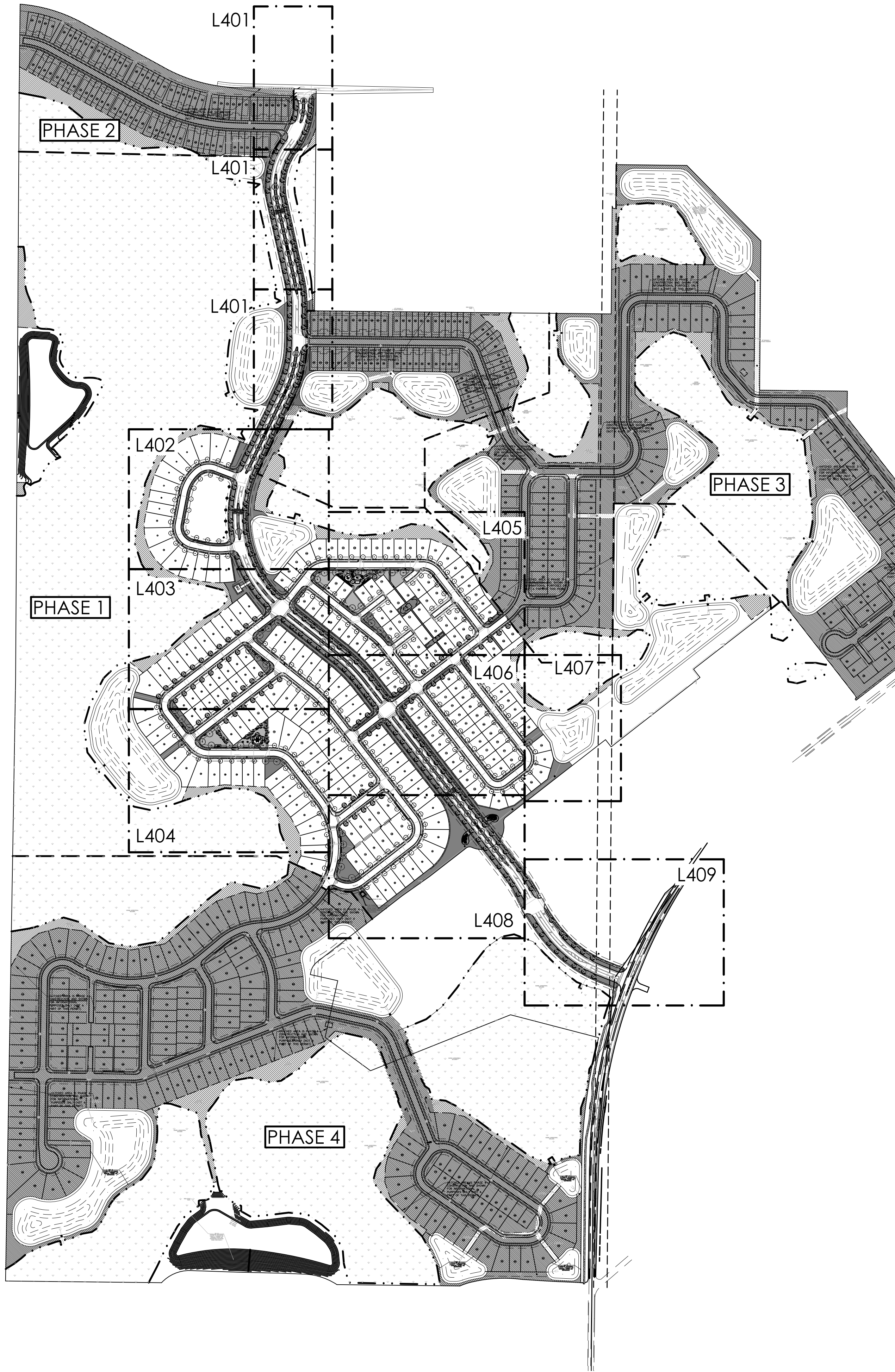
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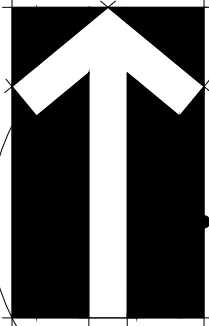
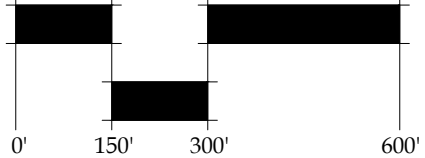
PLANT SCHEDULE PHASE 1

				AS = AS SHOWN				
TREES	QTY	BOTANICAL NAME	COMMON NAME	SPECIFICATION	NATIVE	WATER USE ZONE	SPACING	REMARKS
AR	2	Acer rubrum	Red Maple	2.5" Cal. Min. 10' ht.	YES	HIGH	AS	
LIM	10	Lagerstroemia indica 'Muskogee'	Muskogee Crape Myrtle	2" cal., 8'-10' ht. x 30" spd.	NO	LOW	AS	
PE	14	Pinus elliotti	Slash Pine	2" cal., 8'-10' ht. x 24" spd.	YES	LOW	AS	
QV	12	Quercus virginiana	Live Oak	2.5" Cal. Min. 10' ht.	YES	LOW	AS	
SP	10	Sabal palmetto	Sabal Palm	12'-15' MIXED	YES	LOW	AS	
STREET TREES: COMMON TRACTS								
MG-C	181	Magnolia grandiflora 'Brackens Brown Beauty'	Bracken's Southern Magnolia	4" Cal.	YES	MEDIUM	AS	Min. 10' height
QV-C	83	Quercus virginiana	Live Oak	4" Cal.	YES	LOW	AS	Min. 10' height
UA-C	13	Ulmus alata	Winged Elm	4" Cal.	YES	LOW	AS	
STREET TREES: LOTS								
MG-L	55	Magnolia grandiflora 'Brackens Brown Beauty'	Bracken's Southern Magnolia	4" Cal.	YES	MEDIUM	AS	Min. 10' height
UA-L	207	Ulmus alata	Winged Elm	4" Cal.	YES	LOW	AS	Min. 10' height
SHRUBS								
Hpc	164	Hamelia patens 'Compacta'	Dwarf Firebush	3 gal., full	YES	LOW	36" o.c.	
Ph	26	Philodendron x 'Hope'	Hope Philodendron	3 gal., 18"-24"	NO	MEDIUM	36" o.c.	
Pa	54	Plumbago auriculata 'Imperial Blue'	Plumbago	3 gal., 20"-20"	NO	MEDIUM	36" o.c.	
Pm	90	Podocarpus macrophyllus	Podocarpus	7 gal., 30"x16" spd.	NO	MEDIUM	24" o.c.	
Src	64	Serenoa repens 'Cinerea'	Silver Saw Palmetto	3 gal., 18" o.a.	YES	LOW	36" o.c.	
Sb	122	Spartina bakeni	Sand Cord Grass	3 gal., full	NO	MEDIUM	30" o.c.	
Vovw	96	Viburnum obovatum 'Whorled Class'	Dwarf Walter's Viburnum	3 gal., 18" o.a.	YES	LOW	36" o.c.	
Vo	1,159	Viburnum odoratissimum	Sweet Viburnum	3 gal., 18" o.a.	NO	MEDIUM	36" o.c.	
Zf	12	Zamia furfuracea	Cardboard Palm	10 gal., 24" ht., 36" spd.	NO	LOW	AS	
Zp	524	Zamia pumila	Coontie	3 gal., 18" o.a.	YES	LOW	24" o.c.	
GROUND COVERS								
aa	406	Agapanthus africanus	Lily of the Nile	1 gal., full	NO	MEDIUM	18" o.c.	
agl	1,612	Arachis glabrata	Perennial Peanut	1 gal., full. Use mulch fines	NO	LOW	12" o.c.	
dtv	1,221	Dianella tasmanica 'Variegata'	Variegated Flax Lily	1 gal., 12"-15" spd., full pot	NO	LOW	18" o.c.	
dv	59	Dietses vegeta	African Iris	1 gal., 2-3 ppp	NO	LOW	24" o.c.	
jp	217	Juniperus davurica 'Parsonii'	Parson's Juniper	1 gal., 12"-15" spd.	NO	LOW	18" o.c.	
lmg	356	Liriope muscari 'Emerald Goddess'	Emerald Goddess Lilyturf	1 gal., 12"-15" spd., full pot	NO	LOW	18" o.c.	
mcc	479	Muhlenbergia capillaris	Muhly Grass	1 gal., 24" ht., full pot	YES	LOW	24" o.c.	
ta	78	Trachelospermum asiaticum	Asian Jasmine	1 gal., full. Use mulch fines	NO	MEDIUM	18" o.c.	
SOD/SEED								
soda	34,708 sf	Cynodon dactylon 'Celebration'	Celebration Bermuda Grass	sod	NO	MEDIUM	sod	solid sod - weed free
sodb	337,875 sf	Paspalum notatum 'Argentine'	Argentine Bahia Grass	sod	NO	LOW	sod	sand grown solid sod - weed free

SITE PLAN UPDATE

NOTE: THE LANDSCAPE PROVIDED FOLLOWS THE WATERWISE FLORIDA LANDSCAPES AND IS COMPLIANT WITH THE FLORIDA WATER STAR PROGRAM PER SEC. 7.04.01 STANDARDS

SCALE: 1" = 300'



Hillside Grove
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HOWEY-IN-THE-HILLS, FLORIDA
OVERALL PHASING PLAN

PHASE 1

DATE: May 27, 2022

DRAWN BY: RTM

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JOB NUMBER: 2021.195

FILE NAME: 2021.195_LEN - HILLSIDE GROVE_PHL_LABASE

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1 City Comments 09-29-2022
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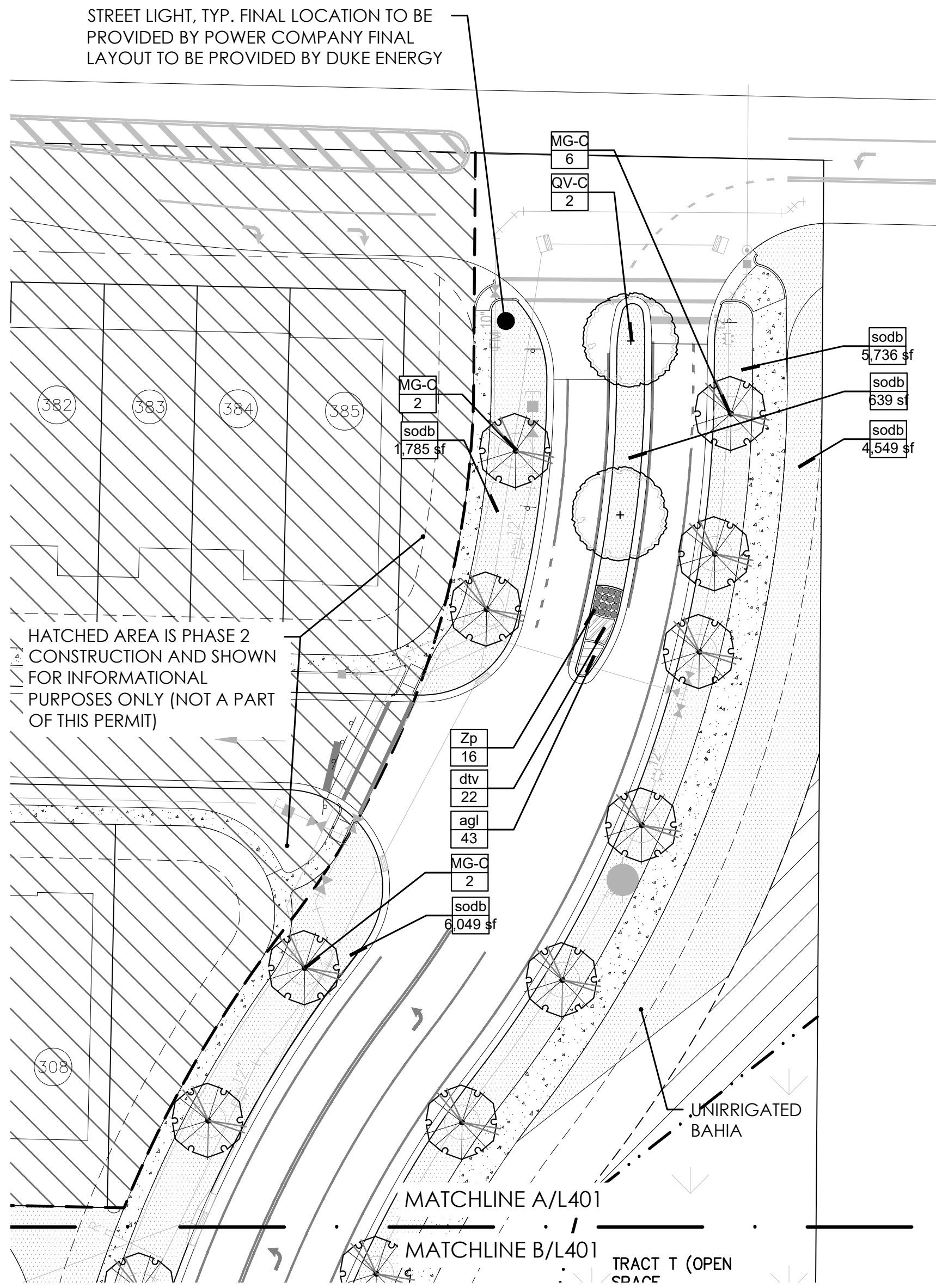


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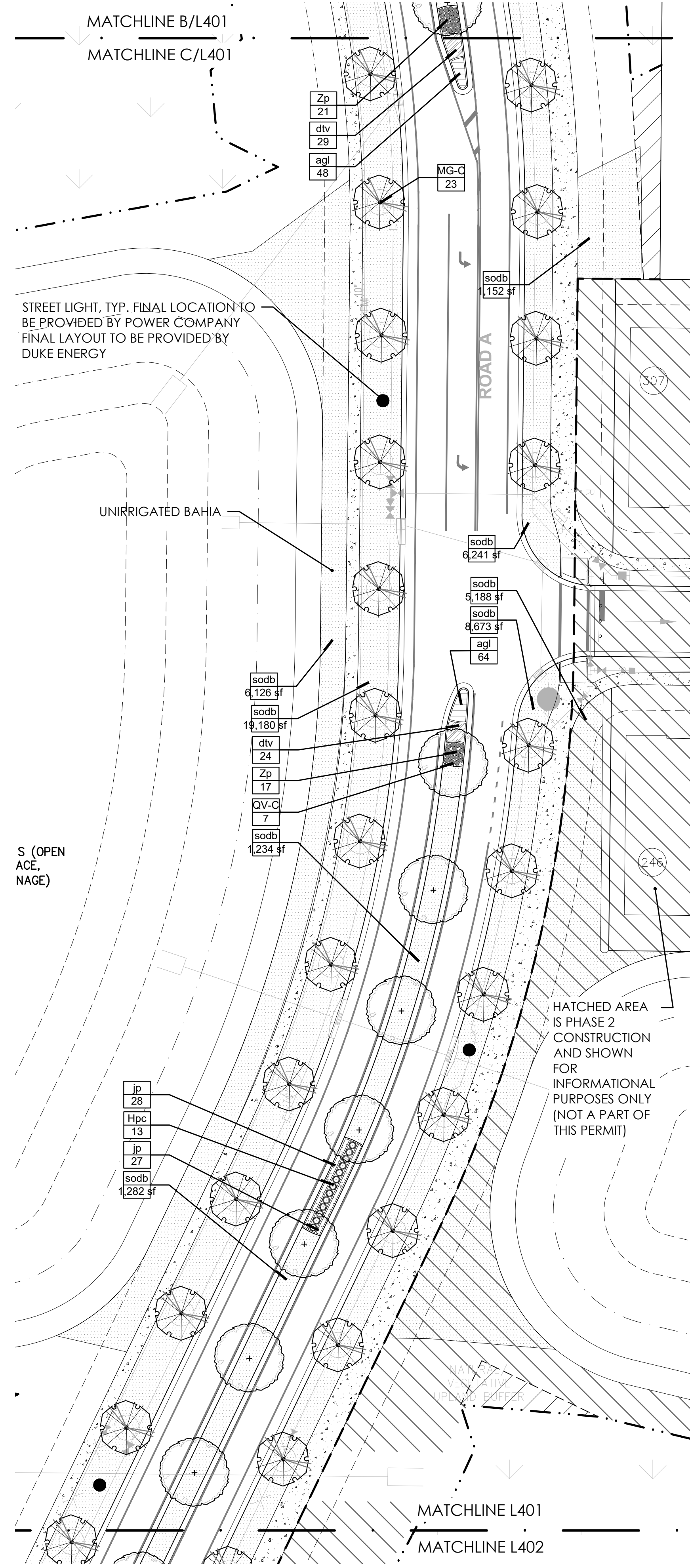
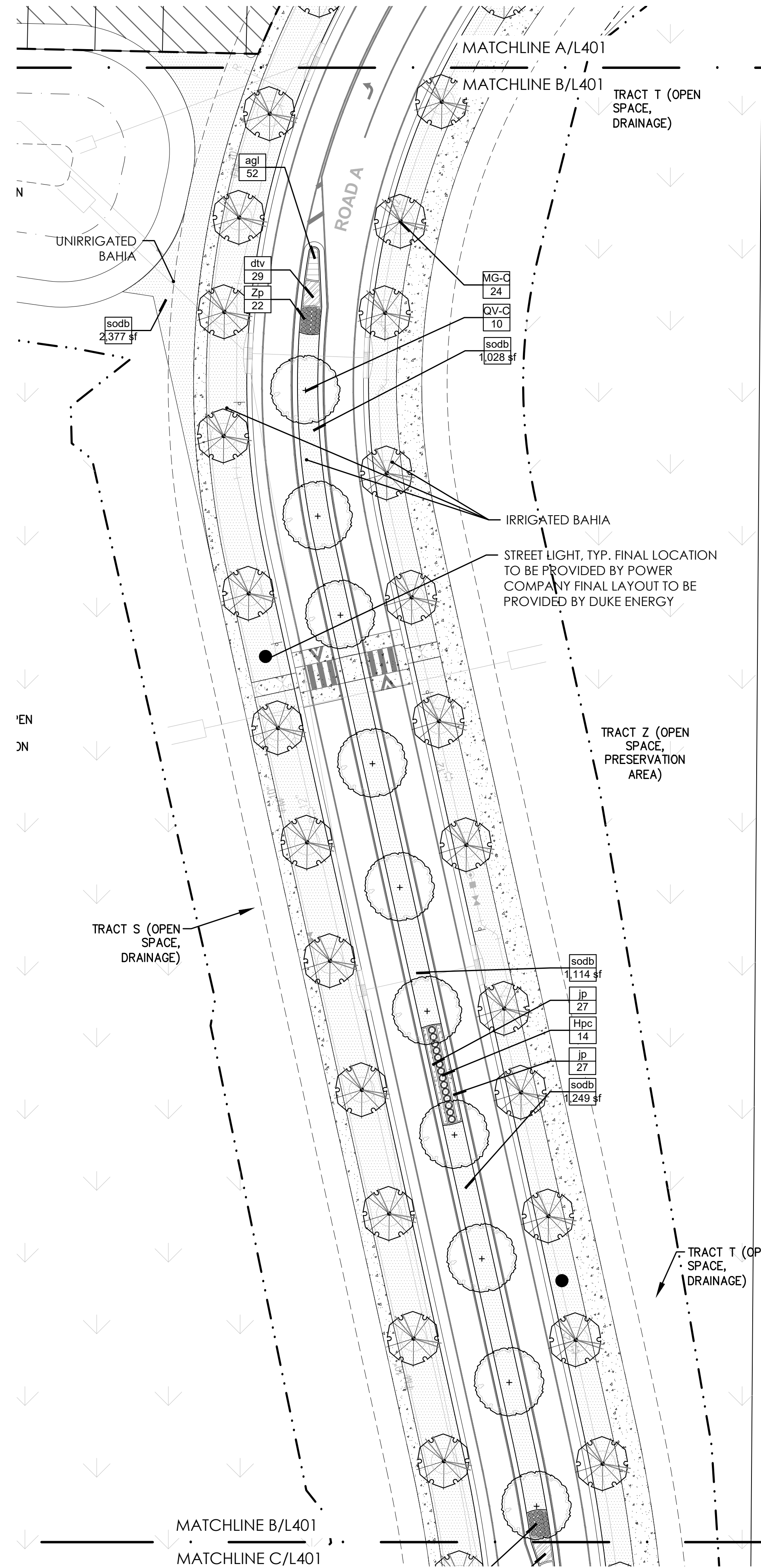
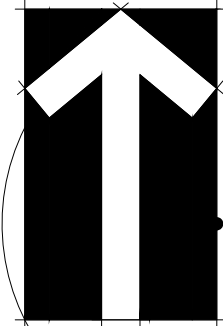
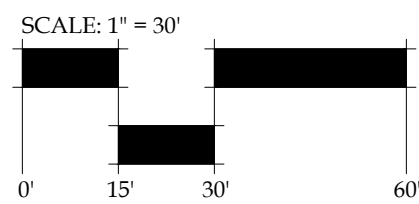
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SITE PLAN UPDATE

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HOWEY-IN-THE-HILLS, FLORIDA

LANDSCAPE PLAN

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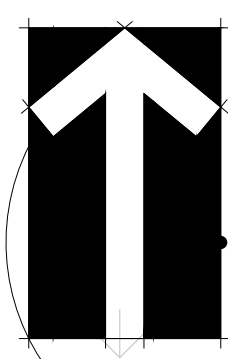
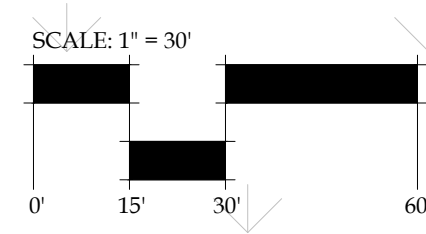
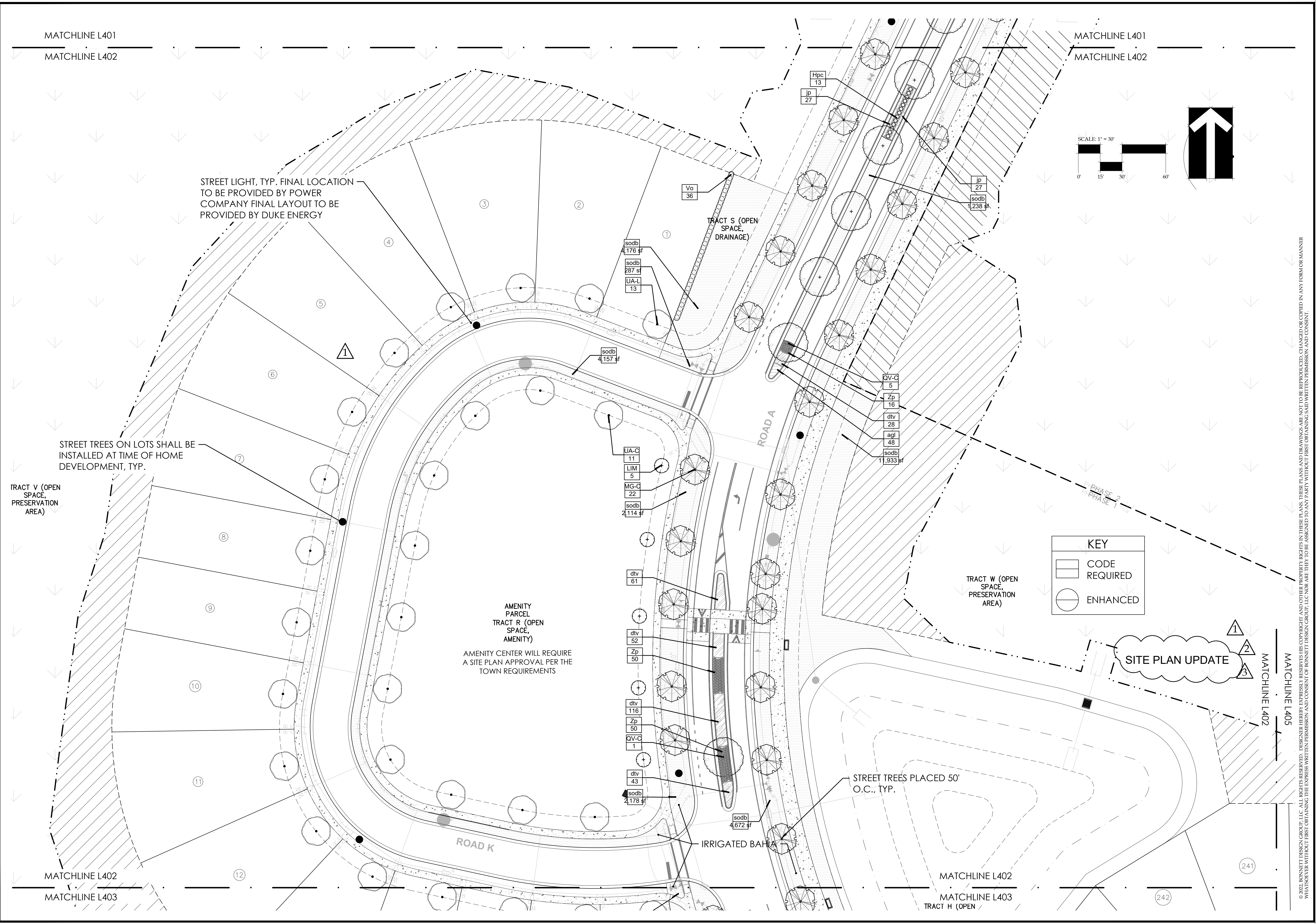
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LANDSCAPE PLAN

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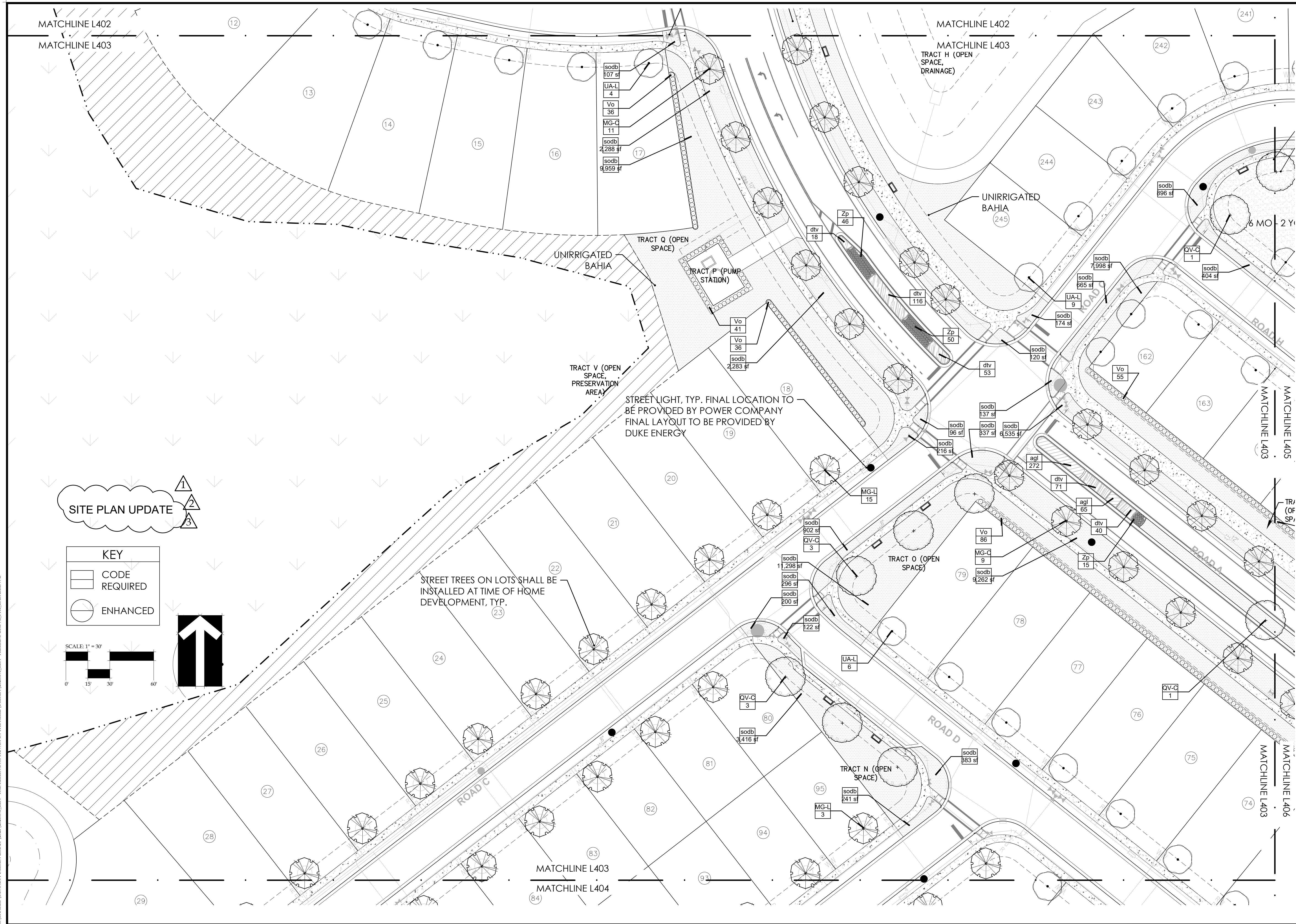
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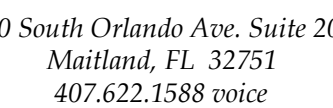
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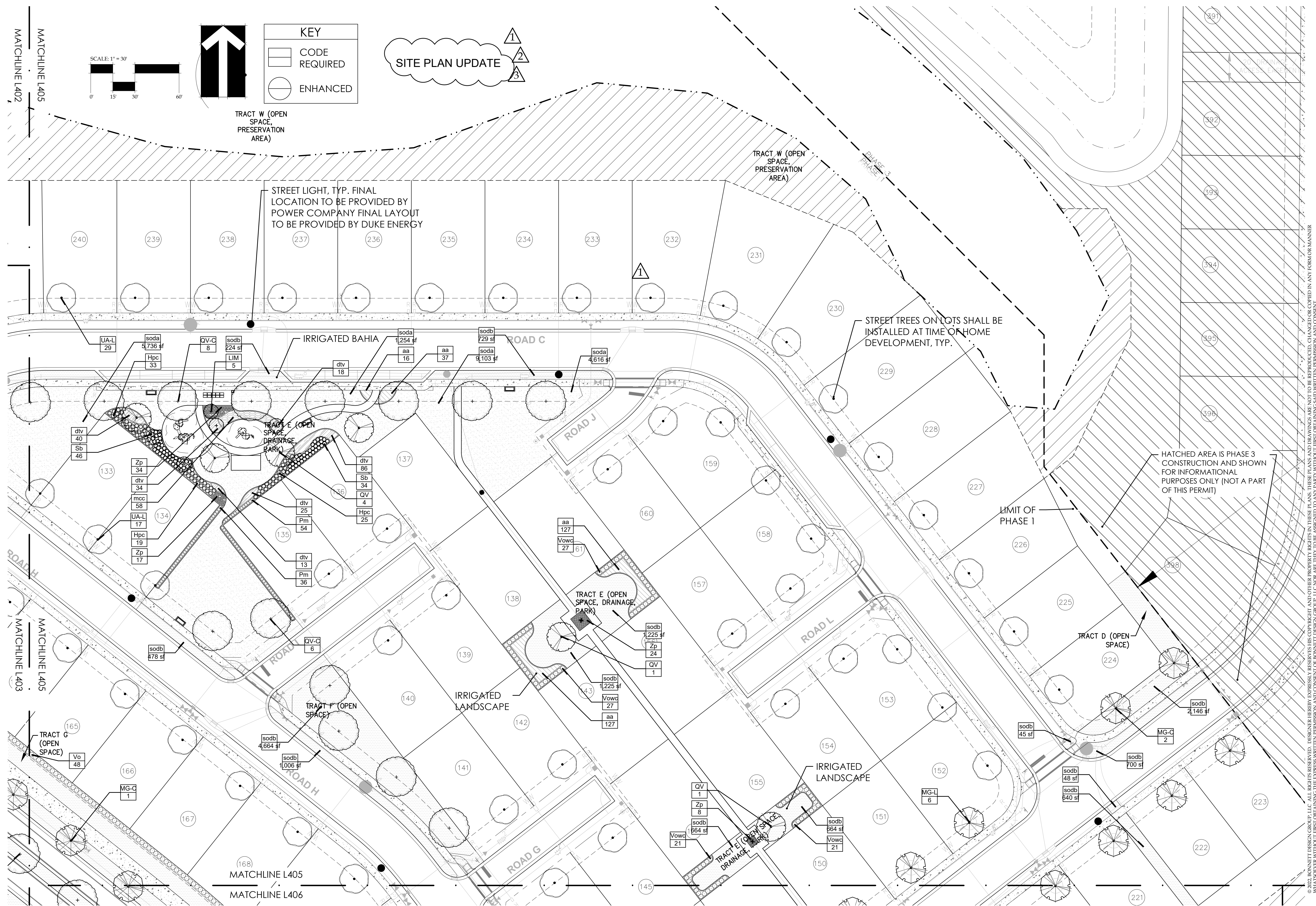
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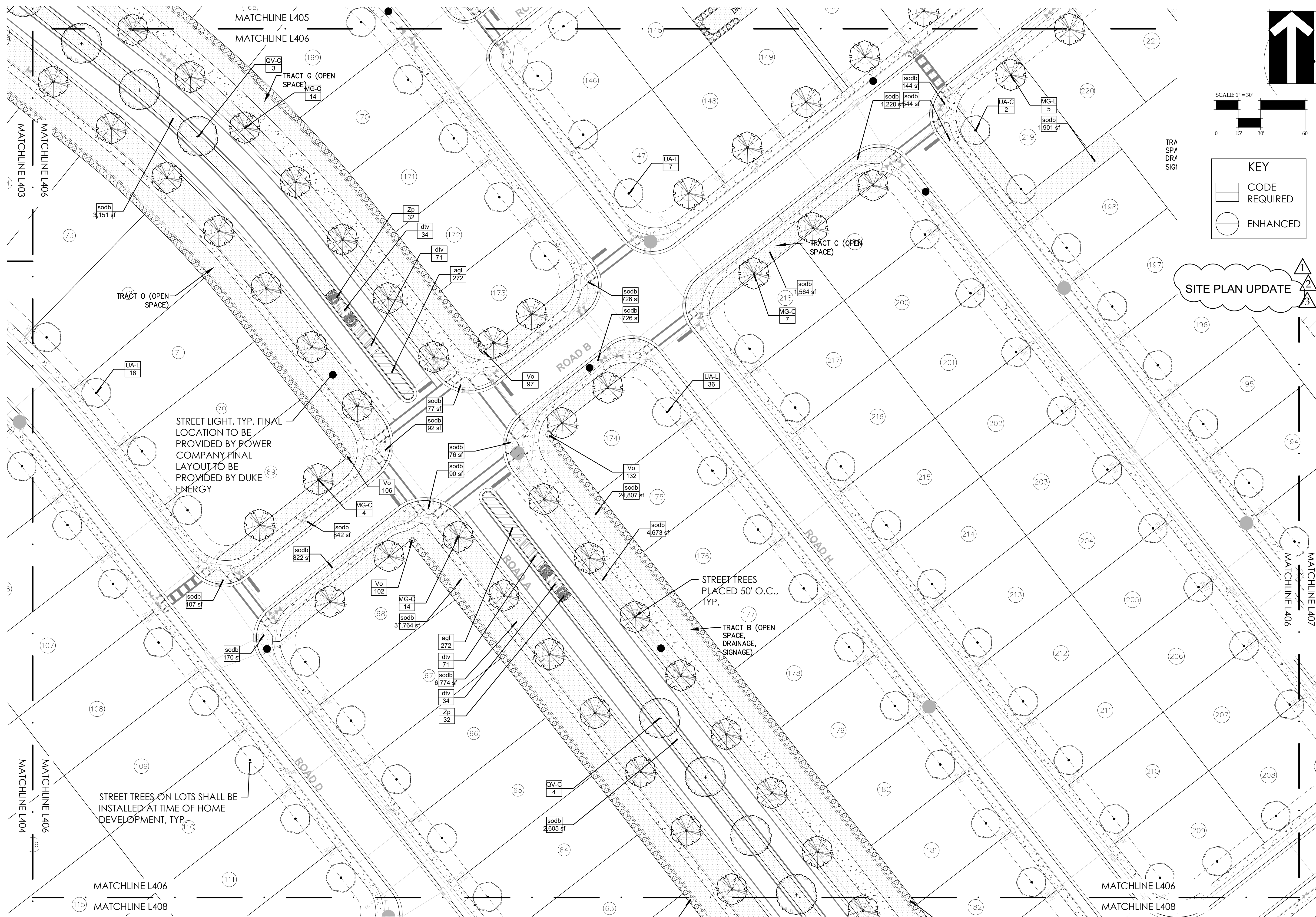
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Hillside Grove Landscape Architecture Easton & Associates HOWEY-IN-THE-HILLS, FLORIDA LANDSCAPE PLAN

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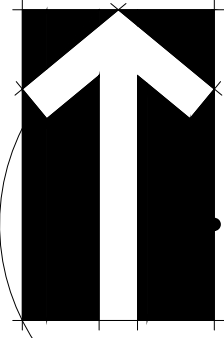
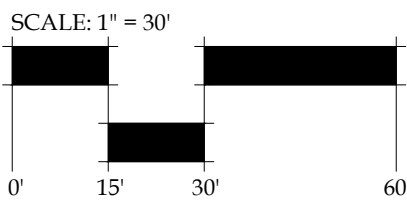
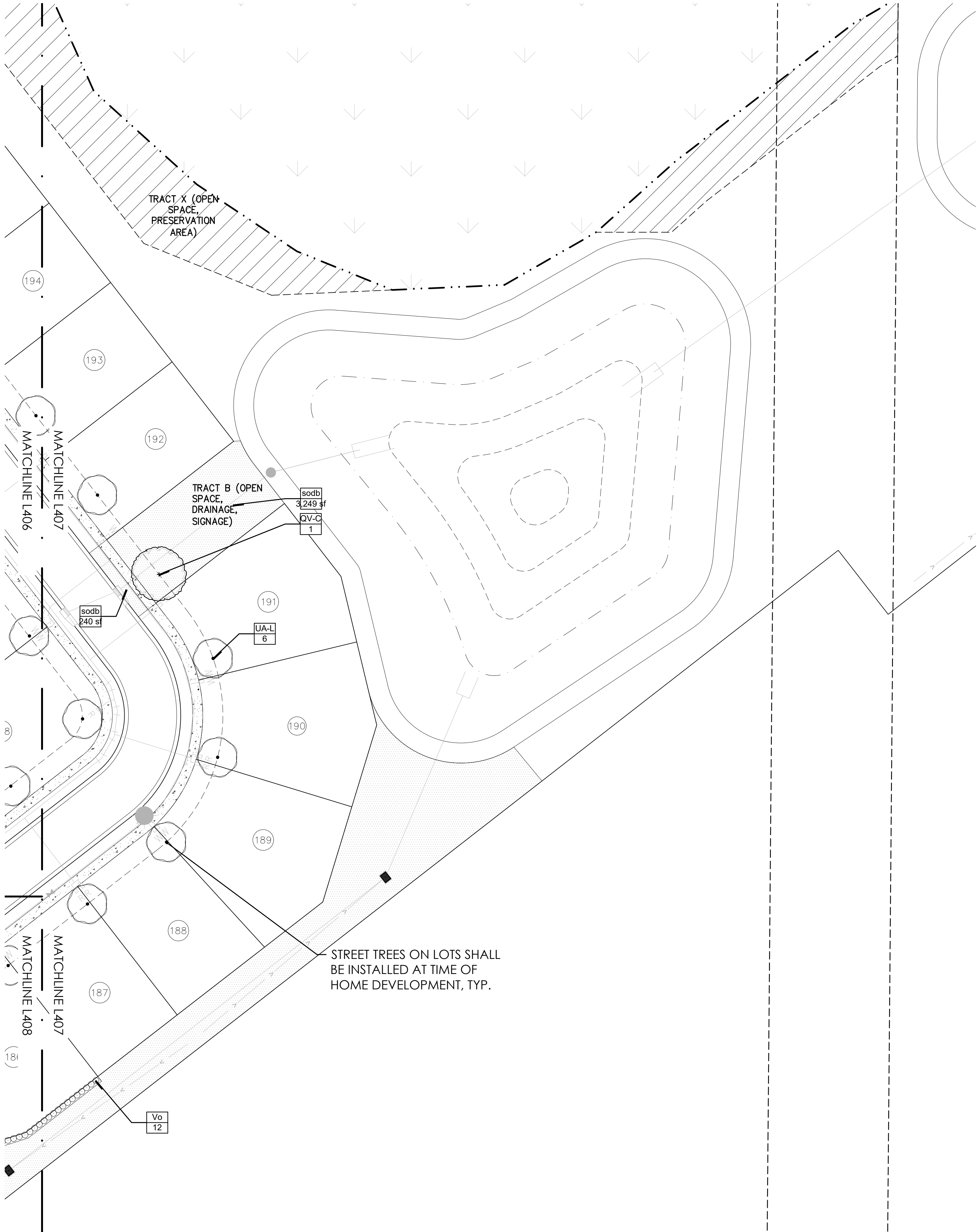
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SITE PLAN UPDATE

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HOWEY-IN-THE-HILLS, FLORIDA
LANDSCAPE PLAN

PHASE 1

DATE: May 27, 2022
DRAWN BY: RTM
CHECKED BY: TWB
JOB NUMBER: 2021.195
FILE NAME: 2021.195_LIN - HILLSIDE GROVE_PHL_LABASE

REVISIONS:
△ City Comments 09-29-2022
△ City Comments 11-17-2022
△ City Comments 06-23-2023

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Todd W. Bonnett, RLA #14000776

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LANDSCAPE PLANNING

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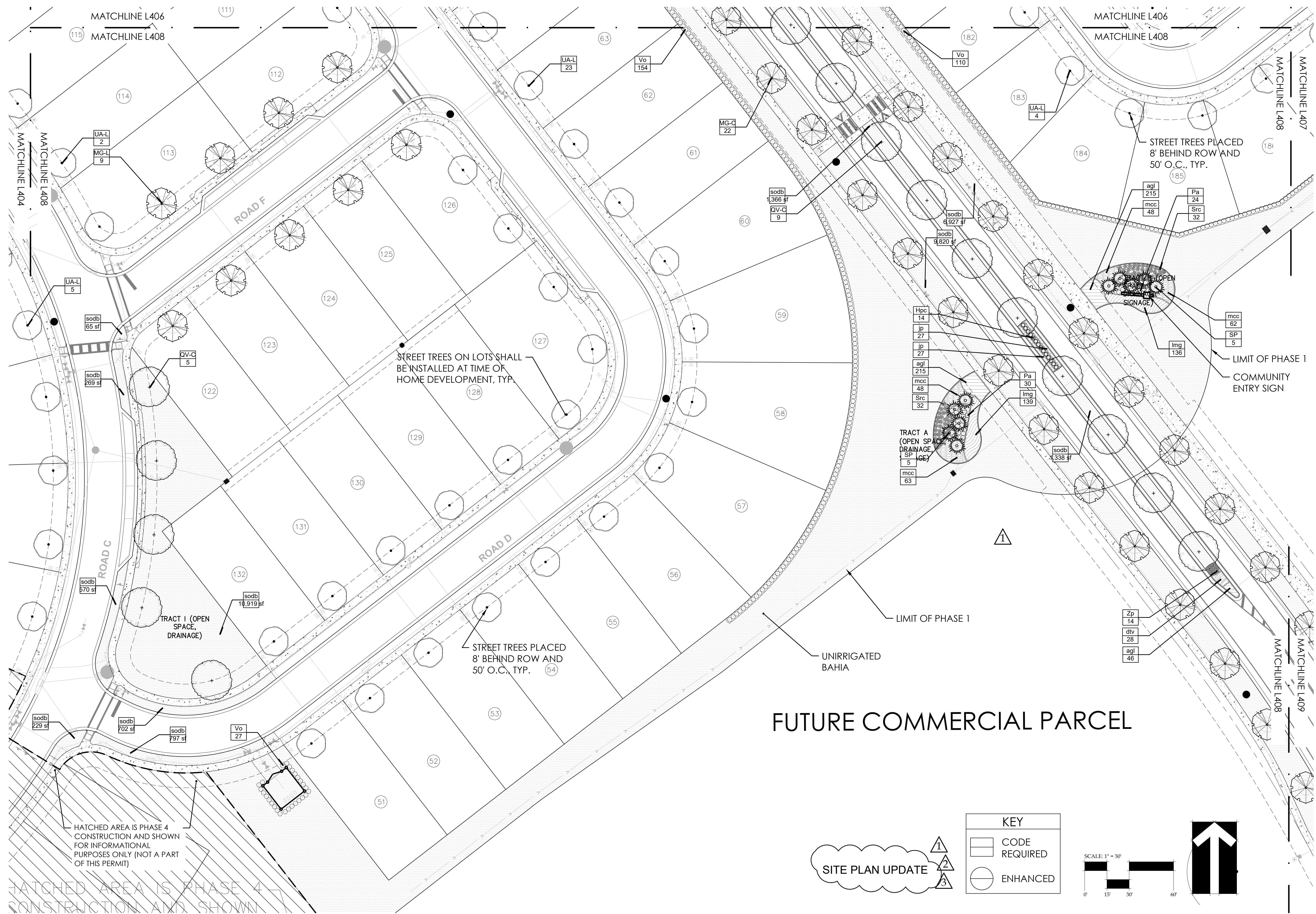
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JOB NUMBER: 2021.19

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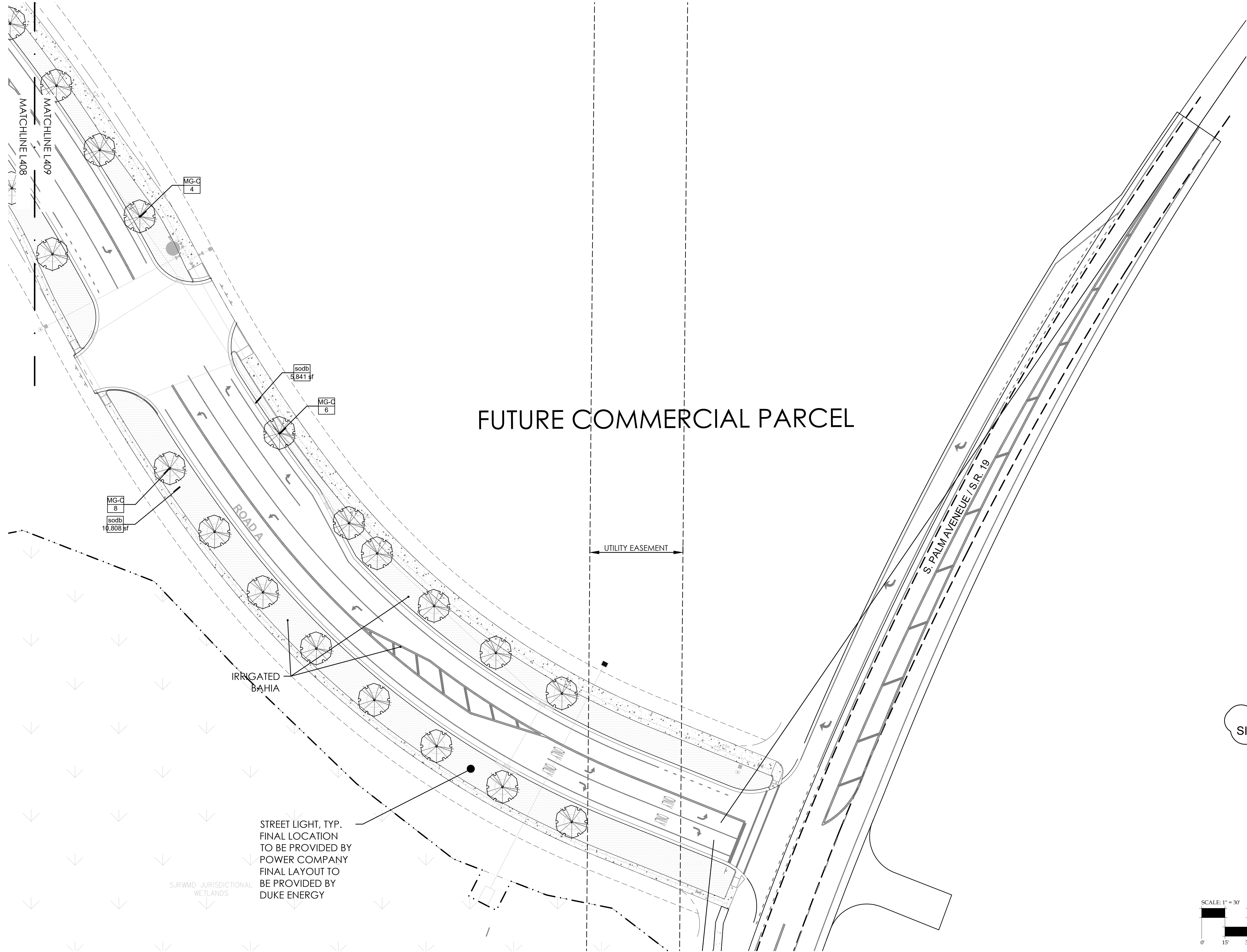
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②	City Comments 11-17-20
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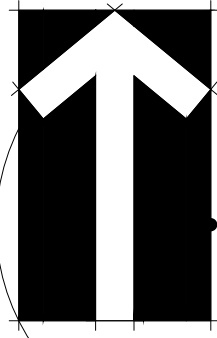
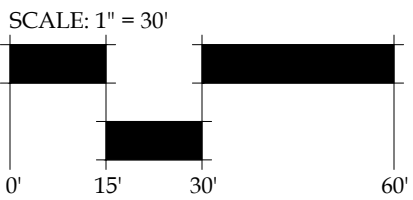


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SITE PLAN UPDATE

KEY	
	CODE REQUIRED
	ENHANCED



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GENERAL REQUIREMENTS

The Landscape Contractor shall be responsible for all materials and all work as called for on the landscape plans. The list of plant quantities accompanying the plans shall be used as guide only. If a discrepancy occurs between the plans and the plant list, the plans shall control.

The Landscape Contractor shall warranty all trees for a period of one (1) year and shrubs and ground covers for a period of six (6) months from the time of final acceptance by Owner and Landscape Architect.

The Landscape Contractor shall be wholly responsible for the stability and plumb condition of all trees and shall be legally liable for any damage caused by the instability of any plant material. Staking of trees and palms, if required, shall be done utilizing a method agreed upon by the Landscape Architect.

The Landscape Contractor shall research plans and contact appropriate agencies to determine the location of any utilities and obstructions prior to commencing work. Any utilities or unanticipated obstructions shall be reported to Landscape Architect or Owner immediately.

All plant material and sodded areas shall have an automatic underground irrigation system providing 100% coverage.

Positive drainage shall be maintained away from all structures on the site.

PLANT SPECIFICATIONS

All nursery stock plant material shall be Florida #1 or better in accordance with Grades and Standards for Nursery Plants Parts I & II, latest edition as published by the Florida Department of Agriculture and Consumer Services- Division of Plant Industry.

All plant material shall be planted, fertilized and mulched as per the plant details and planting specifications noted on the plans.

All container grown material shall be healthy, vigorous, well rooted plants, and established in the container in which they are delivered to the site. The plants shall have tops which are good quality and in a healthy growing condition. Established container grown plant material shall be grown in that container sufficiently long enough for the new fibrous roots to have developed enabling the root mass to retain it's shape when removed the container. Plants which have become root bound in the container are unacceptable.

All plant material that is not container grown shall be freshly dug, sound, healthy, vigorous, well branched, and free of disease and insect eggs and larvae, and shall have adequate root systems. Where any requirements are omitted from the plant list, the plants furnished shall be normal for the variety. Plants may be pruned prior to delivery only upon the approval of the Landscape Architect.

FERTILIZER

Two fertilizers shall be used on all types of plantings, except palms. Granular fertilizer shall be uniform in composition, dry and free flowing. This fertilizer shall be delivered to the site in the original unopened bags bearing the manufacturer's statement of analysis. Granular fertilizer shall be a controlled release variety meeting the following requirements: sixteen percent (16%) nitrogen, four percent (4%) phosphorus, eight percent (8%) potassium, plus iron. tablet fertilizer ("Agriform" or approved equal) in 21 gram size shall meet the following requirements: twenty percent (20%) nitrogen, ten percent (10%) phosphorus, five percent (5%) potassium.

Application Rates:

Plant size	16-4-8	"Agriform" tablet (21 grams)
1 gallon	1/4 lb.	1 tablet
3 gallon	1/3 lb.	2 tablets
7-15 gallon	1/2 lb.	4 tablets
1" - 6" caliper	2 lbs. per 1" caliper	2 tablets per 1" caliper
6" + caliper	3 lbs. per 1" caliper	2 tablets per 1" caliper

Sodded areas shall receive an application of the granular fertilizer (16-4-8) at a rate of 1/2 lb. of Nitrogen per 1,000 square feet of sod area.

"Palm Special" fertilizer shall be applied to all palms at installation at a rate of 1 1/2 lbs. per 100 square feet of canopy area. Palm fertilizer shall be a controlled release variety containing chelated micro nutrients and a ratio of N-P-K-Mg of 2:1:3:1.

SOIL

Planting soil for use in preparing the backfill material for planting pits shall be added a rate of fifty percent (50%) planting soil to fifty percent (50%) existing soil. This soil mix shall be used in all plant pits except Sabal Palms which shall be backfilled with clean sand. Planting soil shall be a fertile, friable natural topsoil of loamy character. It shall contain forty (40) to fifty (50) percent decomposed organic matter and be free of heavy clay, stones larger than 1" in diameter, noxious weeds and plants, sod, partially disintegrated debris, insects or any other undesirable material, plants or seeds that would be toxic or harmful to plant growth.

MULCH

All plant beds and tree watering basins shall be top dressed with three inches (3") of pine bark mini-nuggets mulch.

SOD

Refer to Landscape Plan for limits of sod.

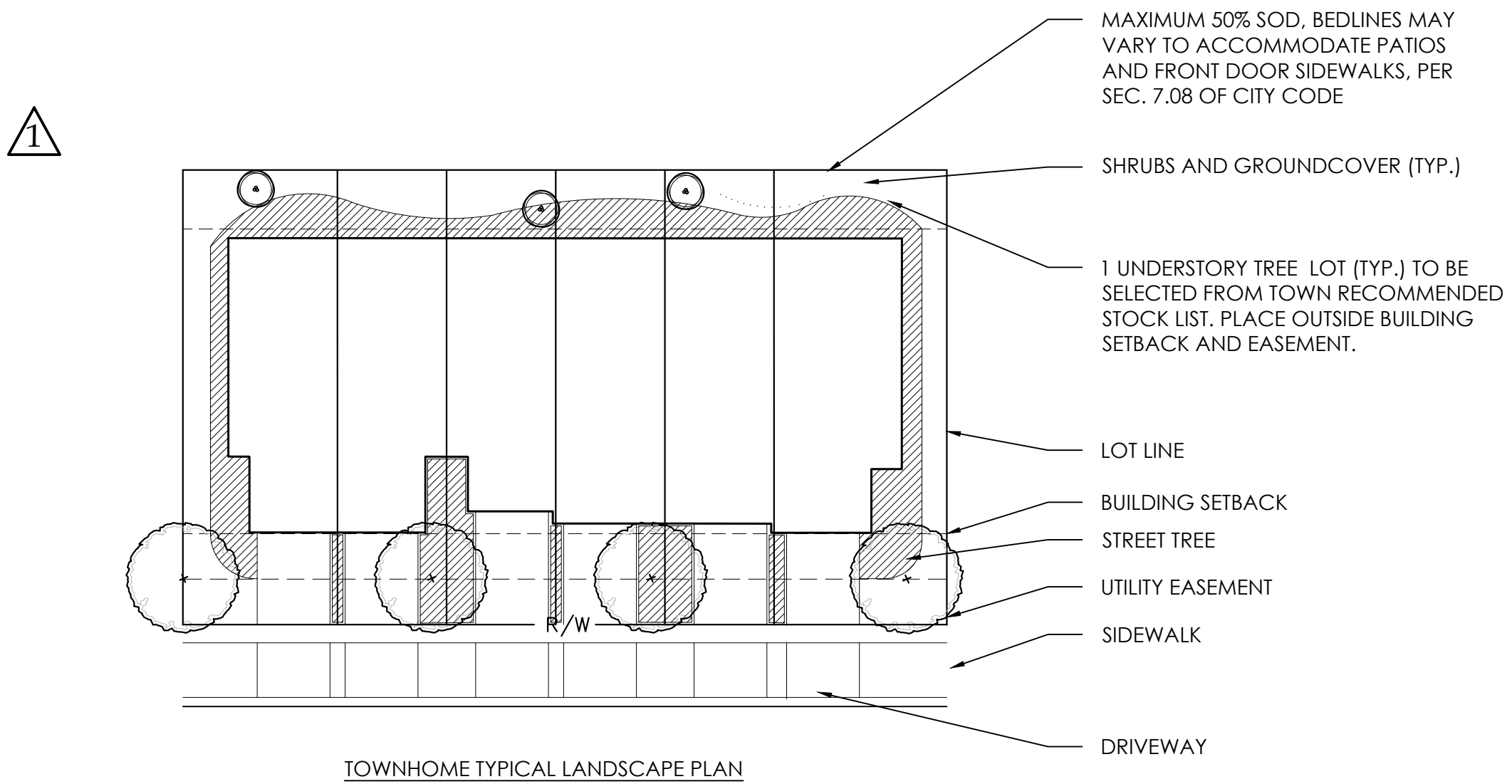
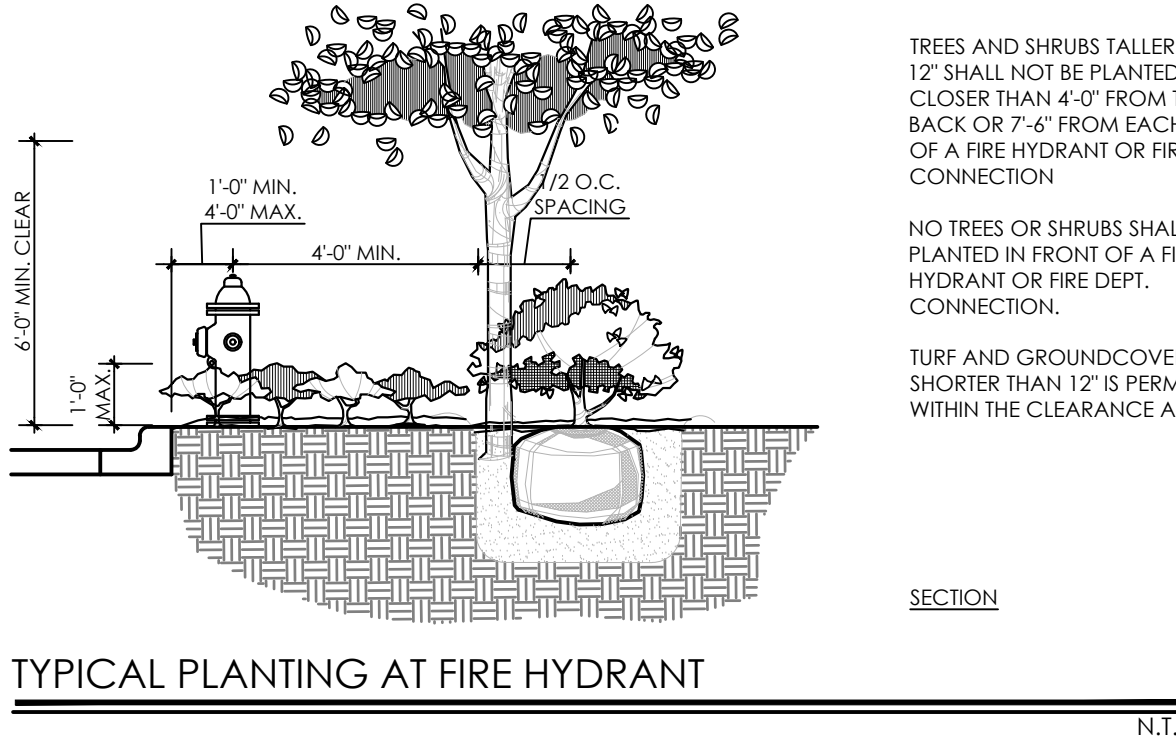
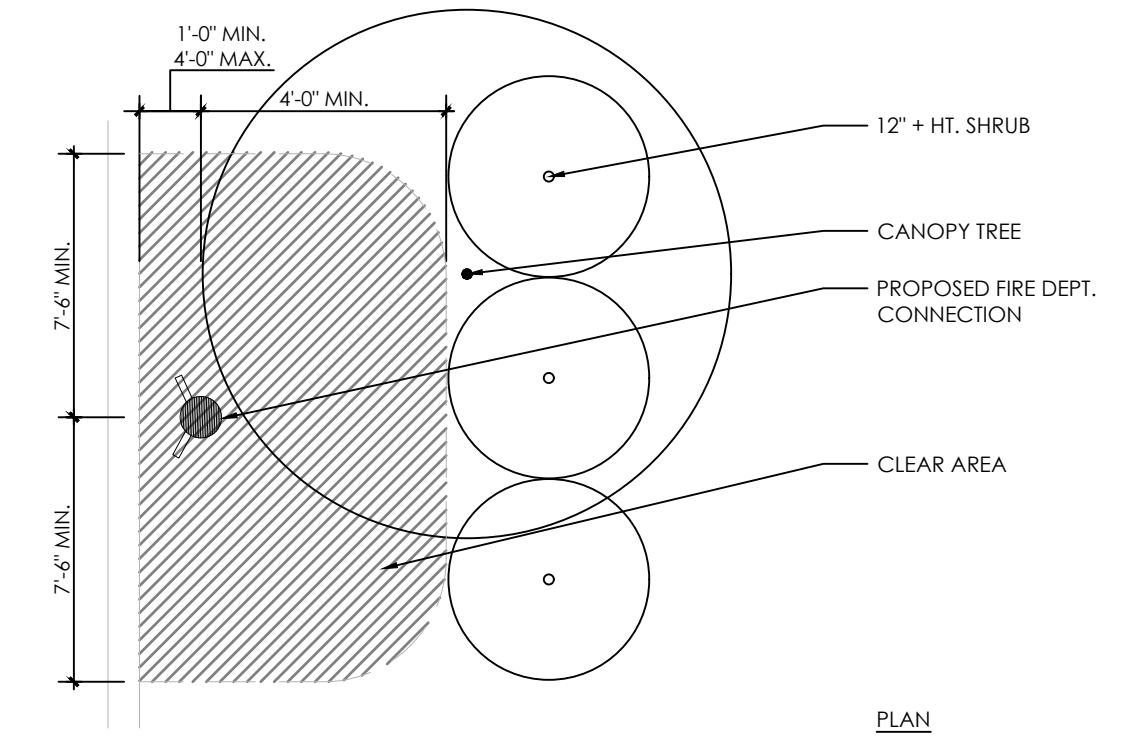
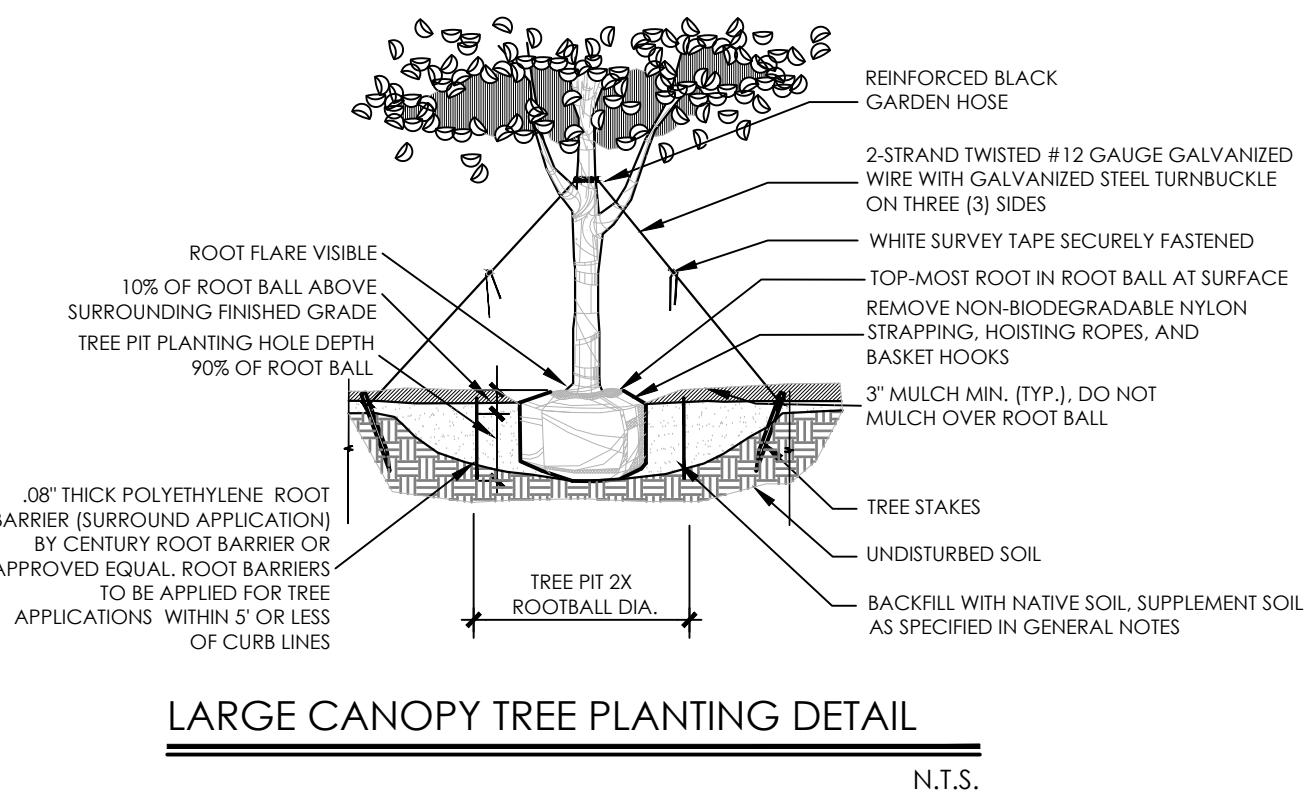
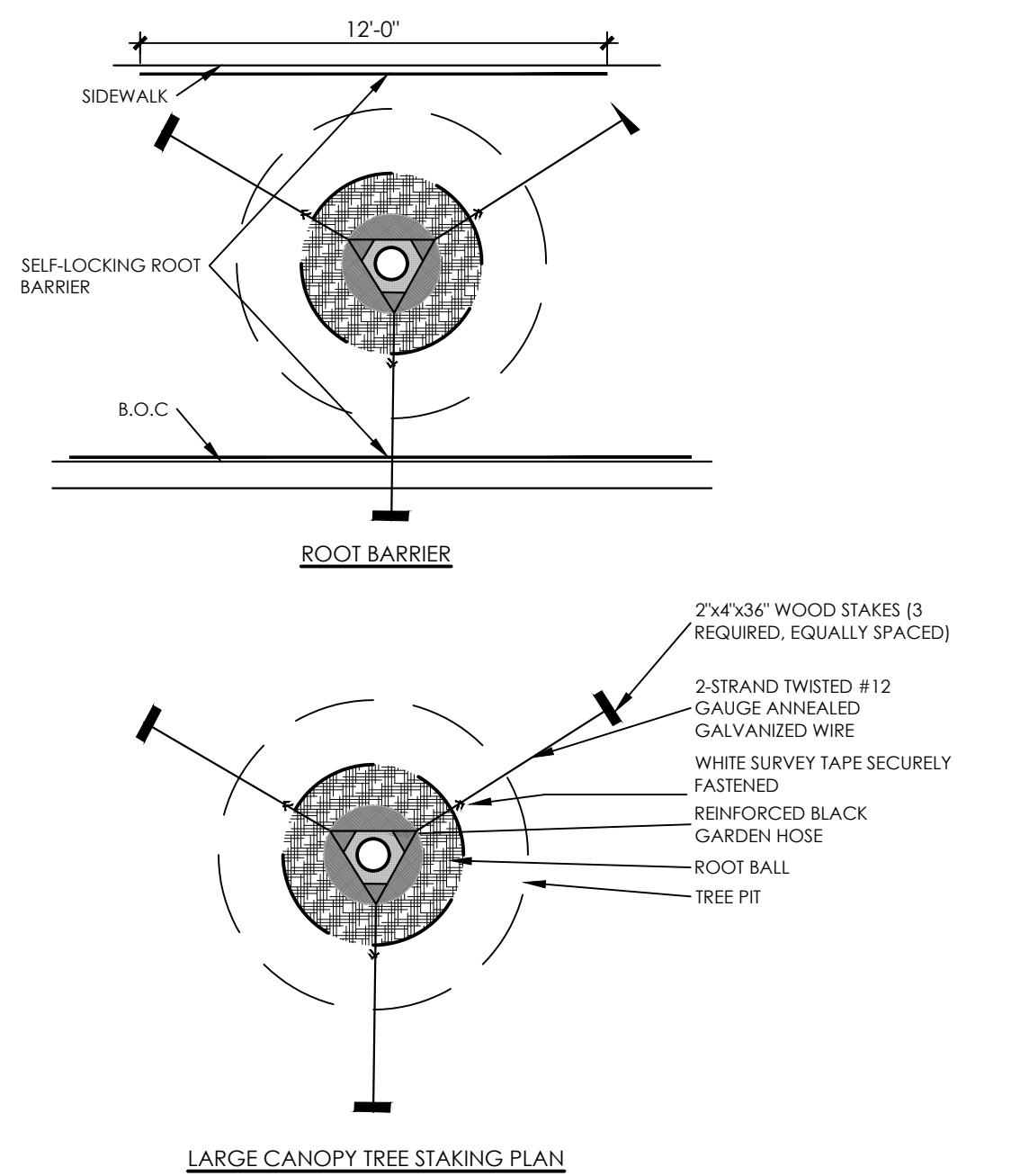
All areas disturbed by construction (including material staging, equipment storage, temporary facilities, site access, construction staff parking, etc.) beyond the minimum limits of sod as shown on the Landscape Plan shall be sodded as needed.

All lawn areas to receive sod shall be disked four (4) to six (6) inches and graded to establish a level finished grade ensuring positive drainage from all structures. All debris shall be removed from the site.

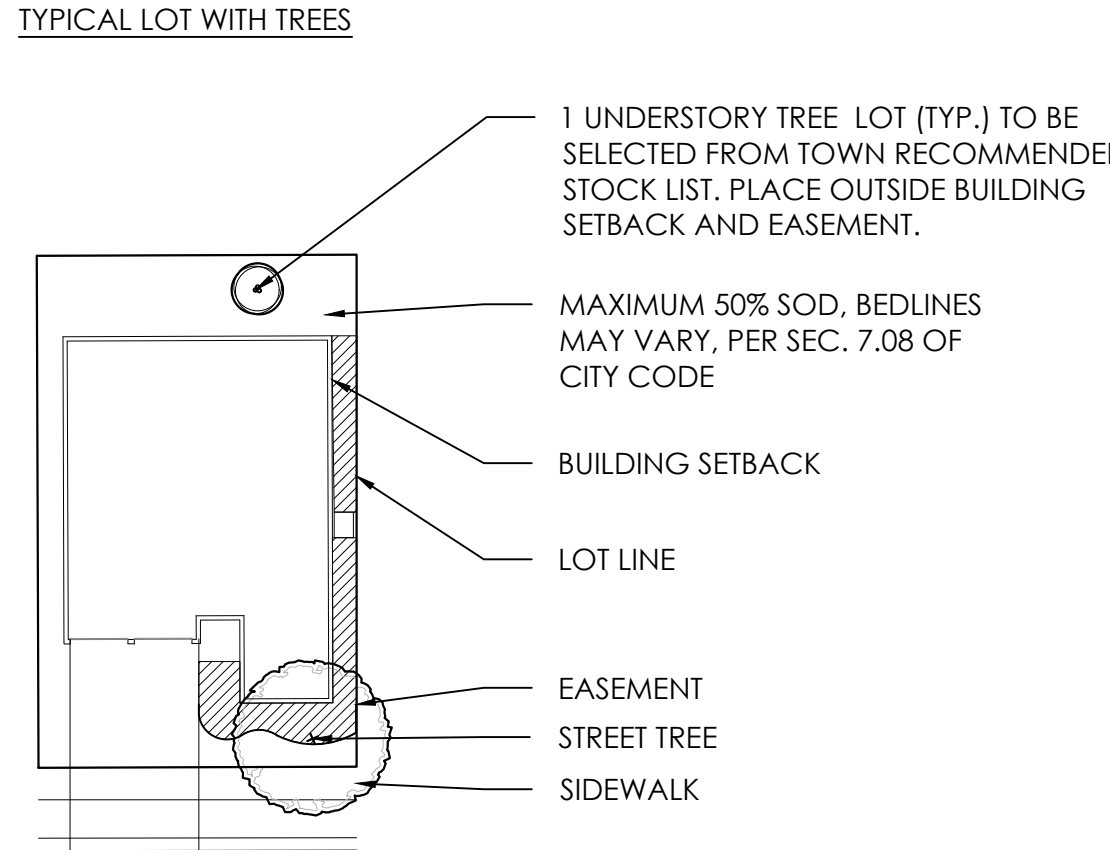
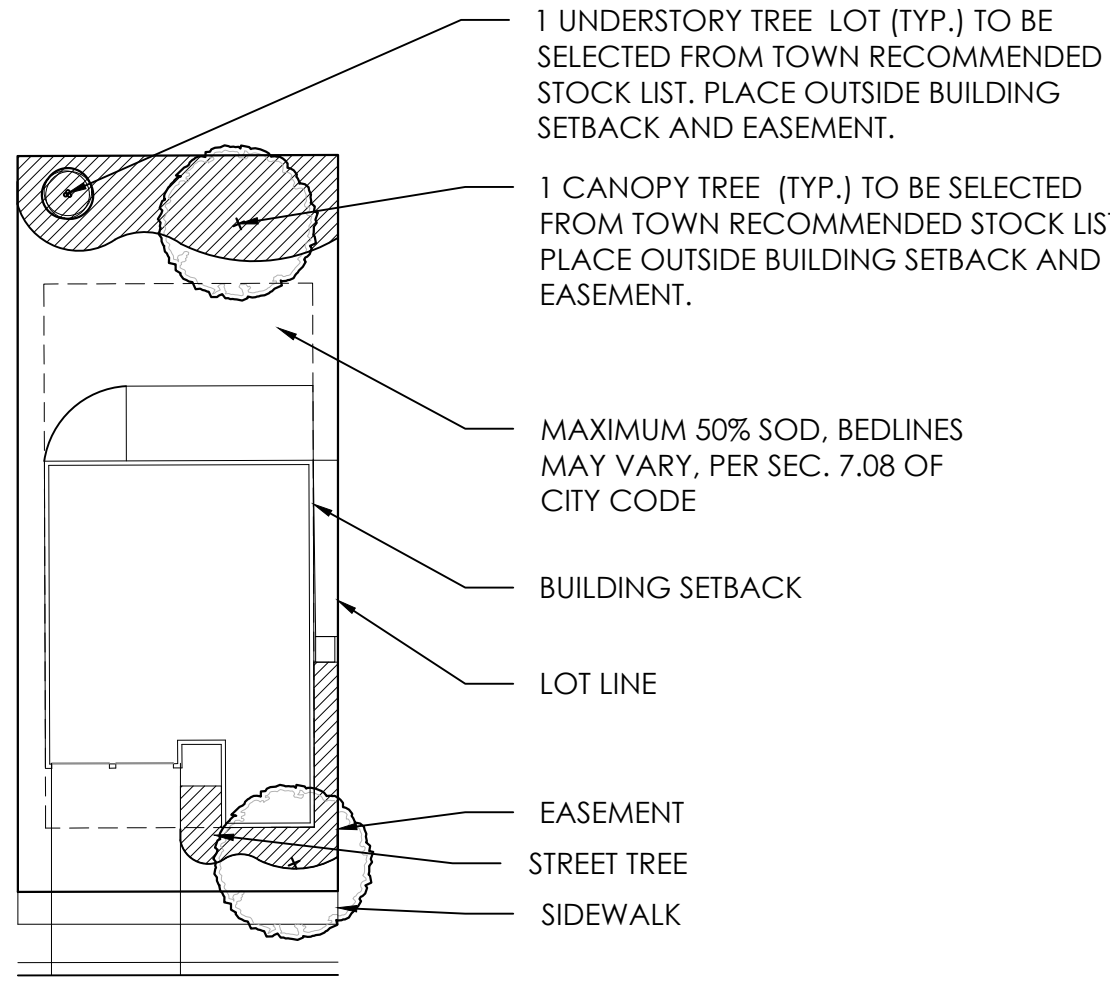
Sod shall be free of weeds and pests. It shall be laid evenly with tight fitting joints and rolled. The sod shall contain moist soil which does not fall apart or tear when lifted.

See plant list for specific sod species and locations.

See 'Fertilizer' for requirements of all sodded areas.



NOTE: TREE SUPPORT MATERIALS SHALL BE REMOVED FROM EACH TREE ONCE IT IS ESTABLISHED. THIS IS USUALLY DONE AFTER 6 MONTHS FOR SHADE TREES AND 1 YEAR FOR PALM TREES.



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HOWEY-IN-THE-HILLS, FLORIDA
LANDSCAPE DETAILS & NOTES

PHASE 1

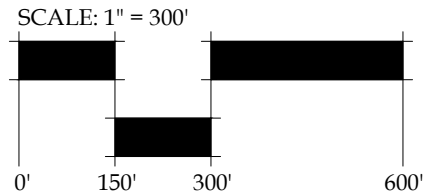
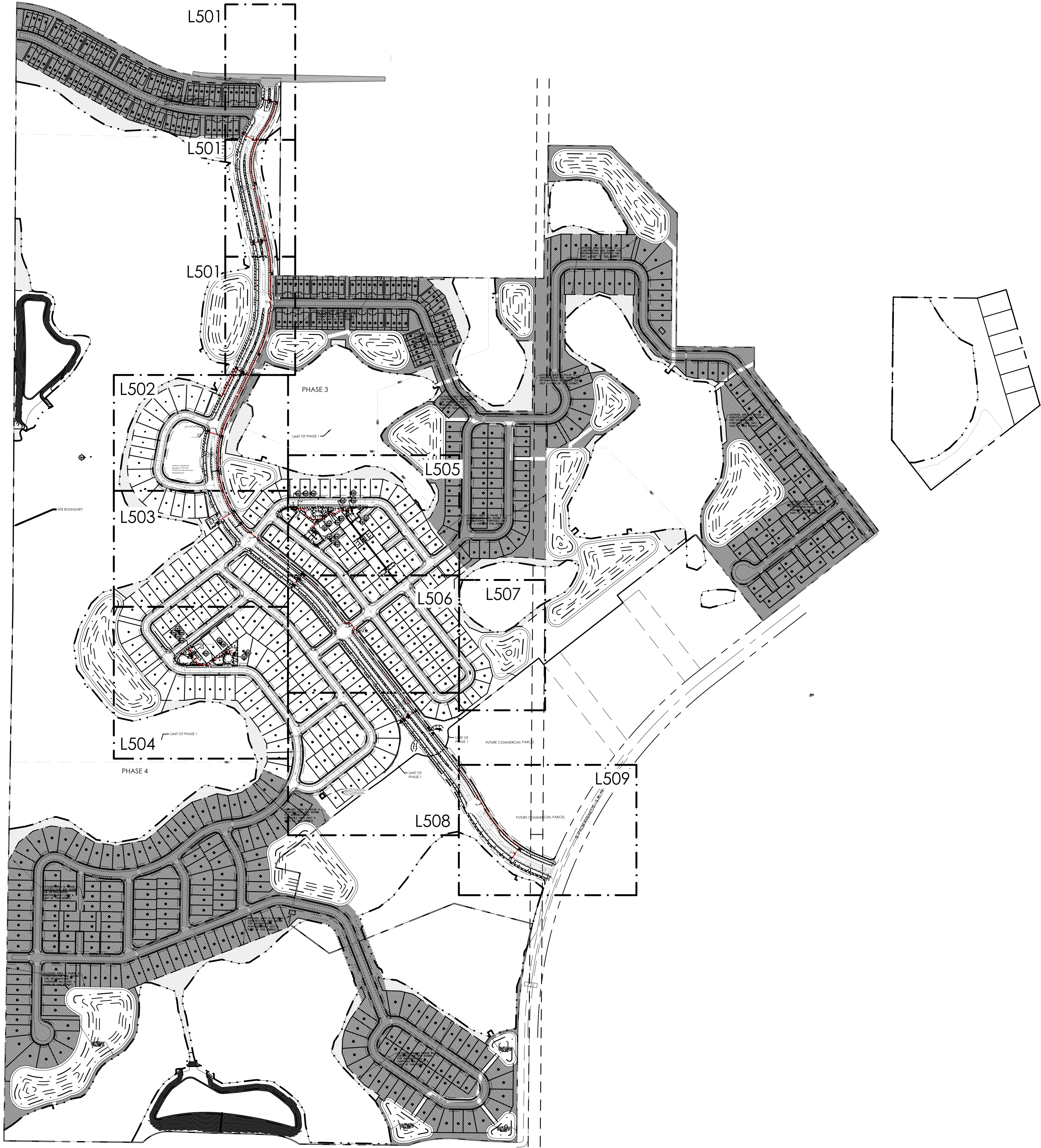
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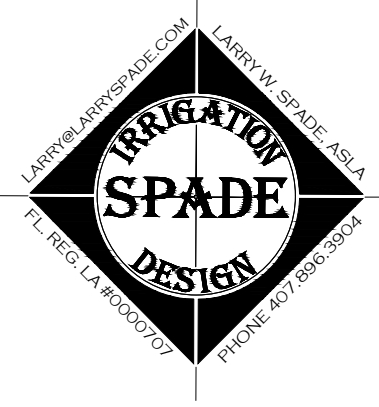


SITE PLAN UPDATE

NOTE: PER 7.06.03 IRRIGATION DESIGN AND INSTALLATION AFFIDAVITS, THIS IRRIGATION SYSTEM WILL COMPLY WITH THE STANDARDS OF HOWEY-IN-THE-HILLS WATER CONSERVATION PLAN, IRRIGATION STANDARDS.

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HOWEY-IN-THE-HILLS, FLORIDA

OVERALL IRRIGATION PLAN

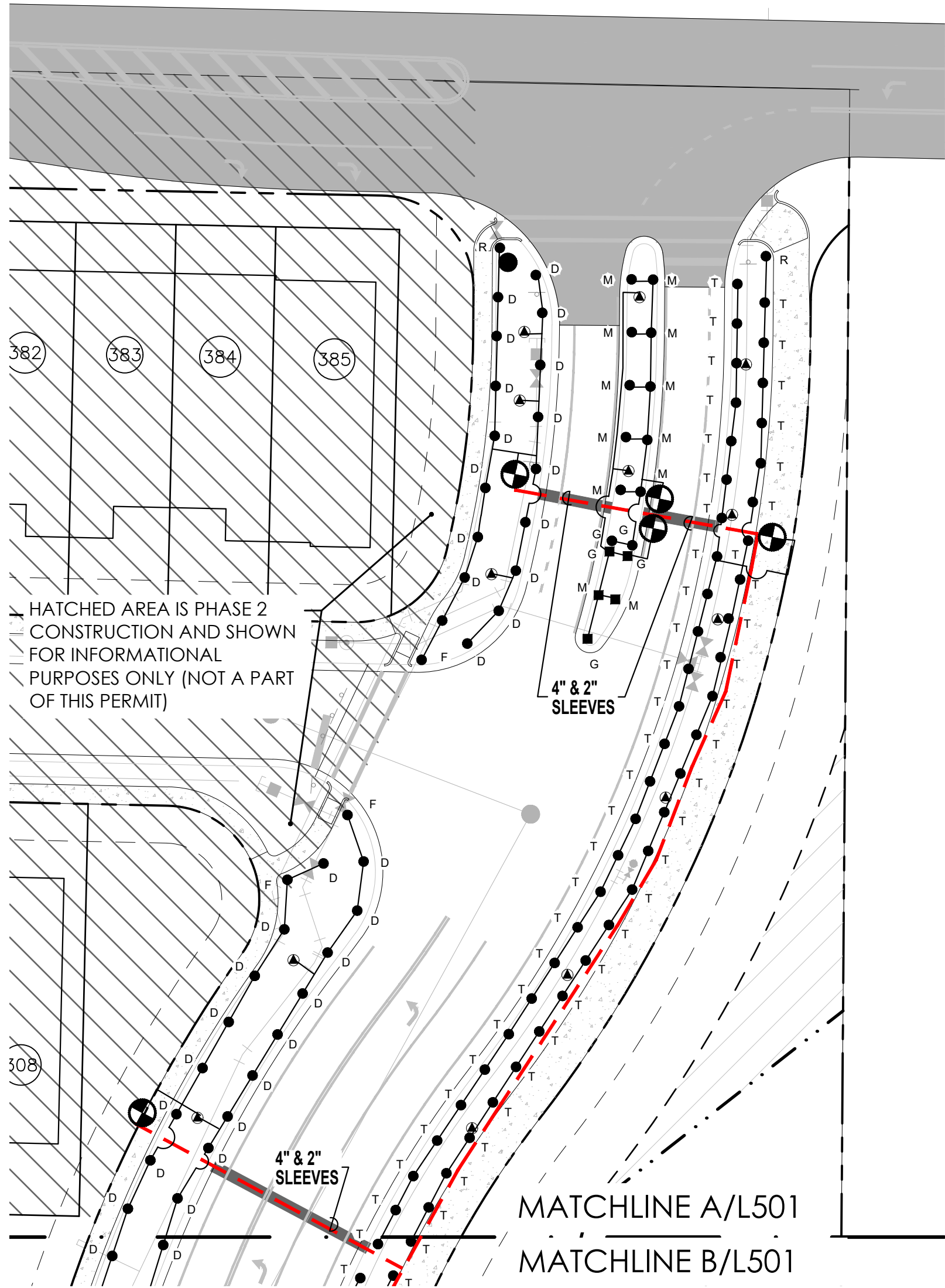
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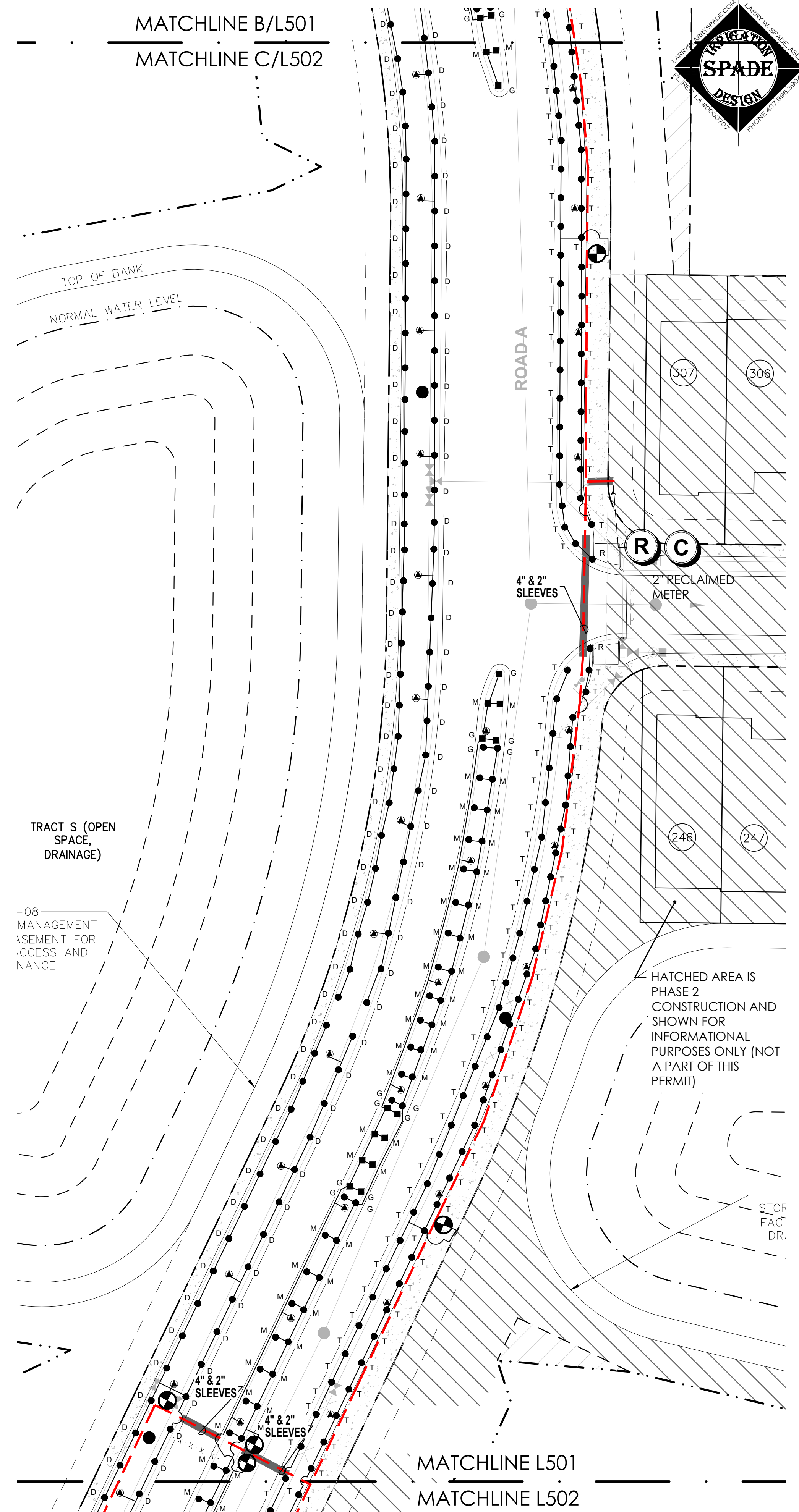
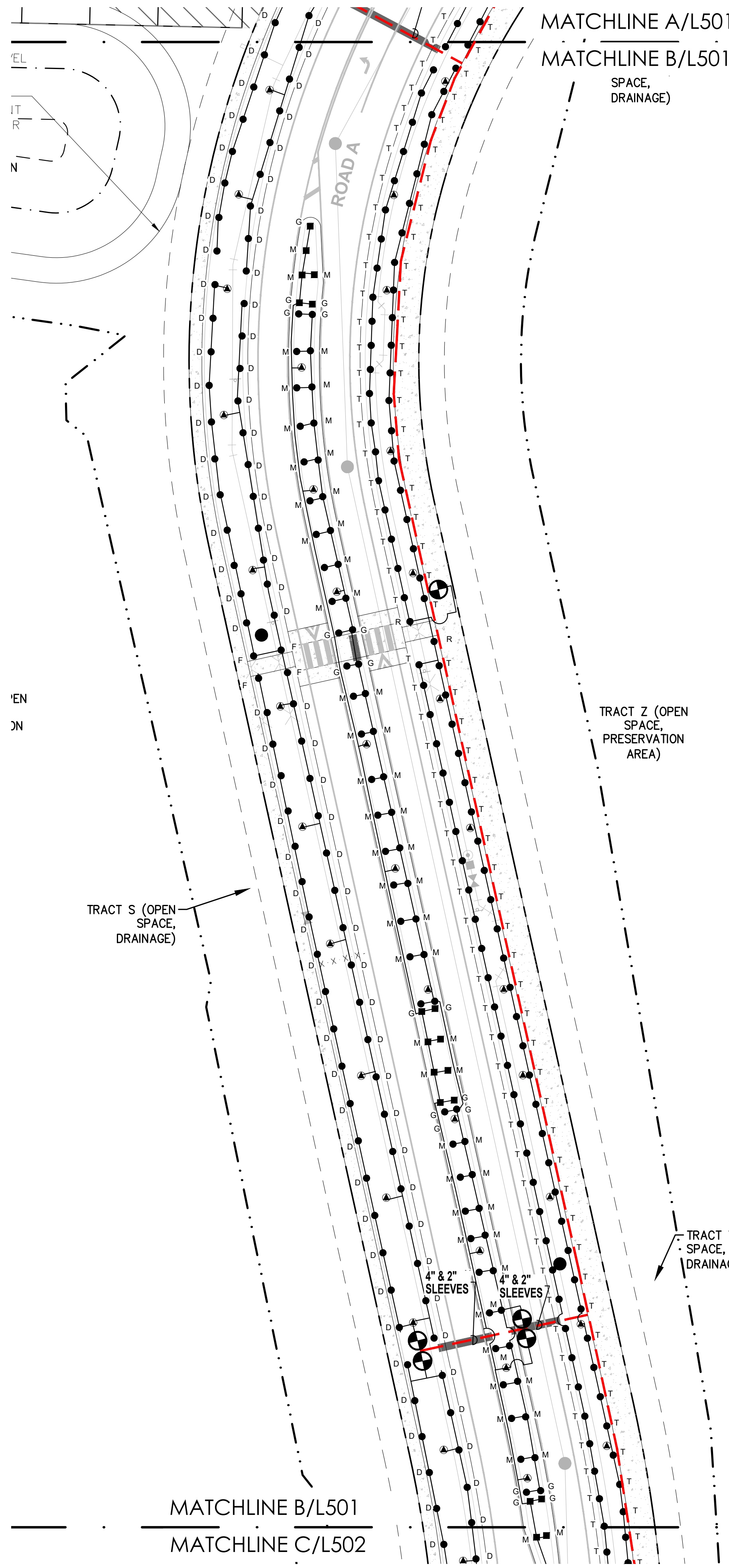
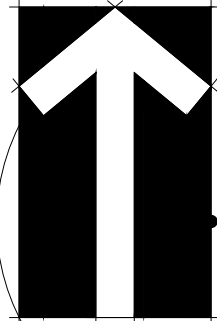
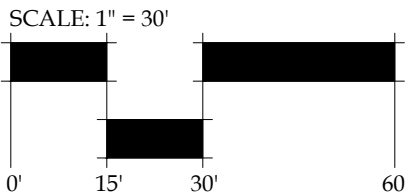
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PLANT SHRUB HEAD NOTE
SPRAY HEADS WERE USED IN THE PLANT BEDS INSTEAD OF MICRO-IRRIGATION. THESE ZONES SHALL BE TURNED OFF AFTER THE PLANTS ARE ESTABLISHED.

SITE PLAN UPDATE



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IRRIGATION PLAN

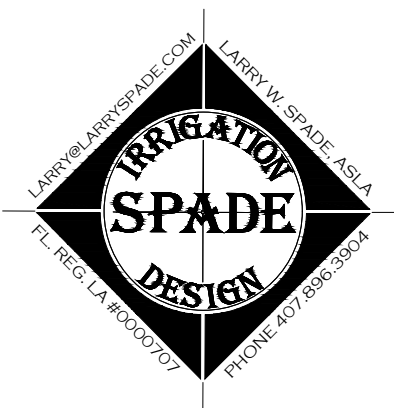
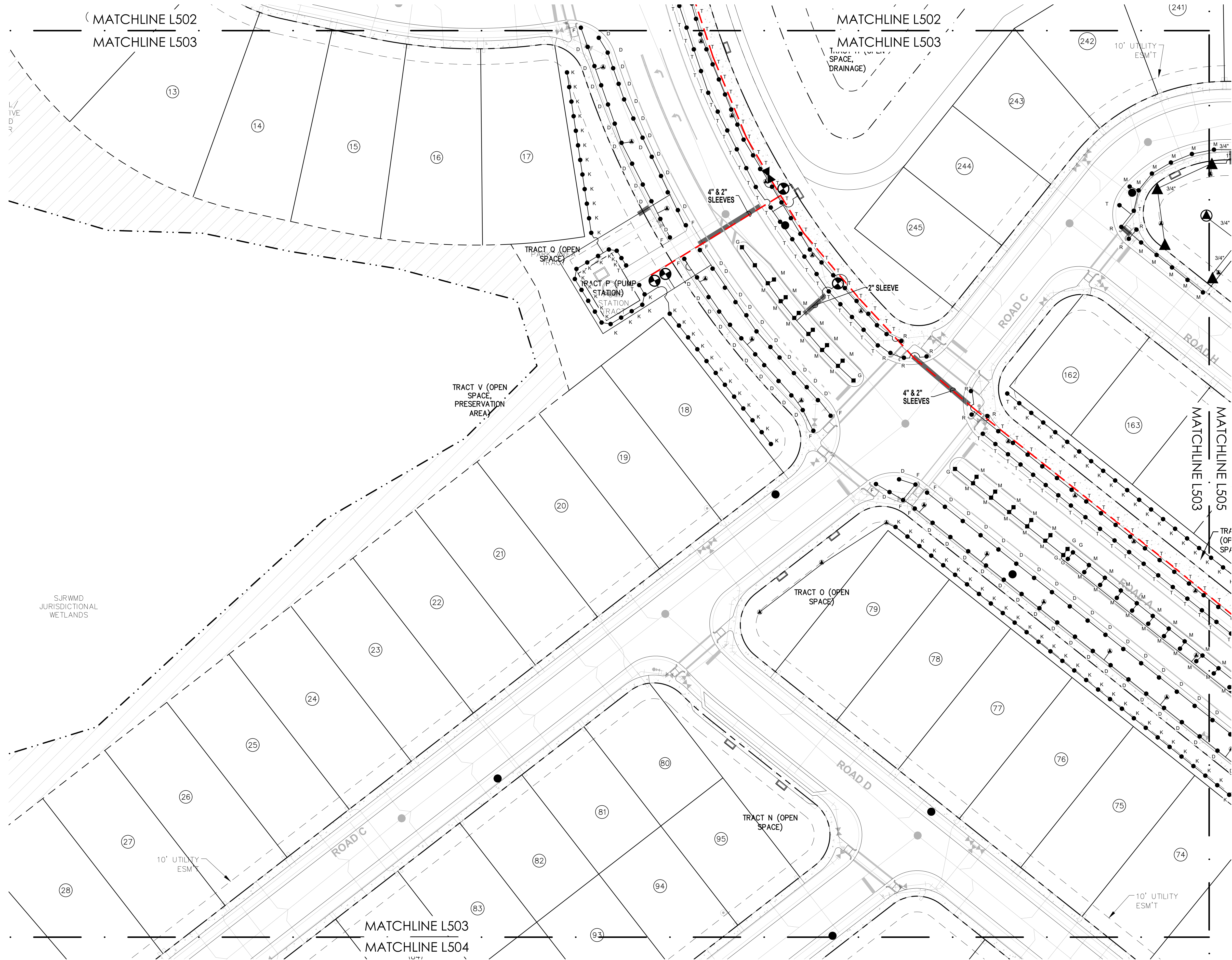
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SITE PLAN UPDATE

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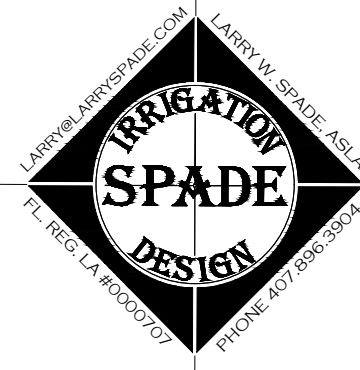
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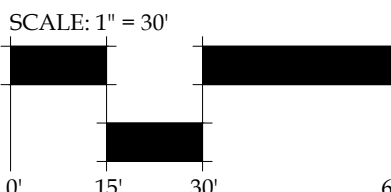
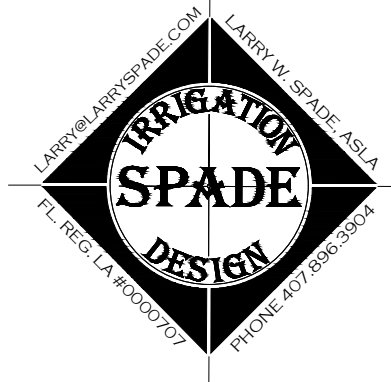
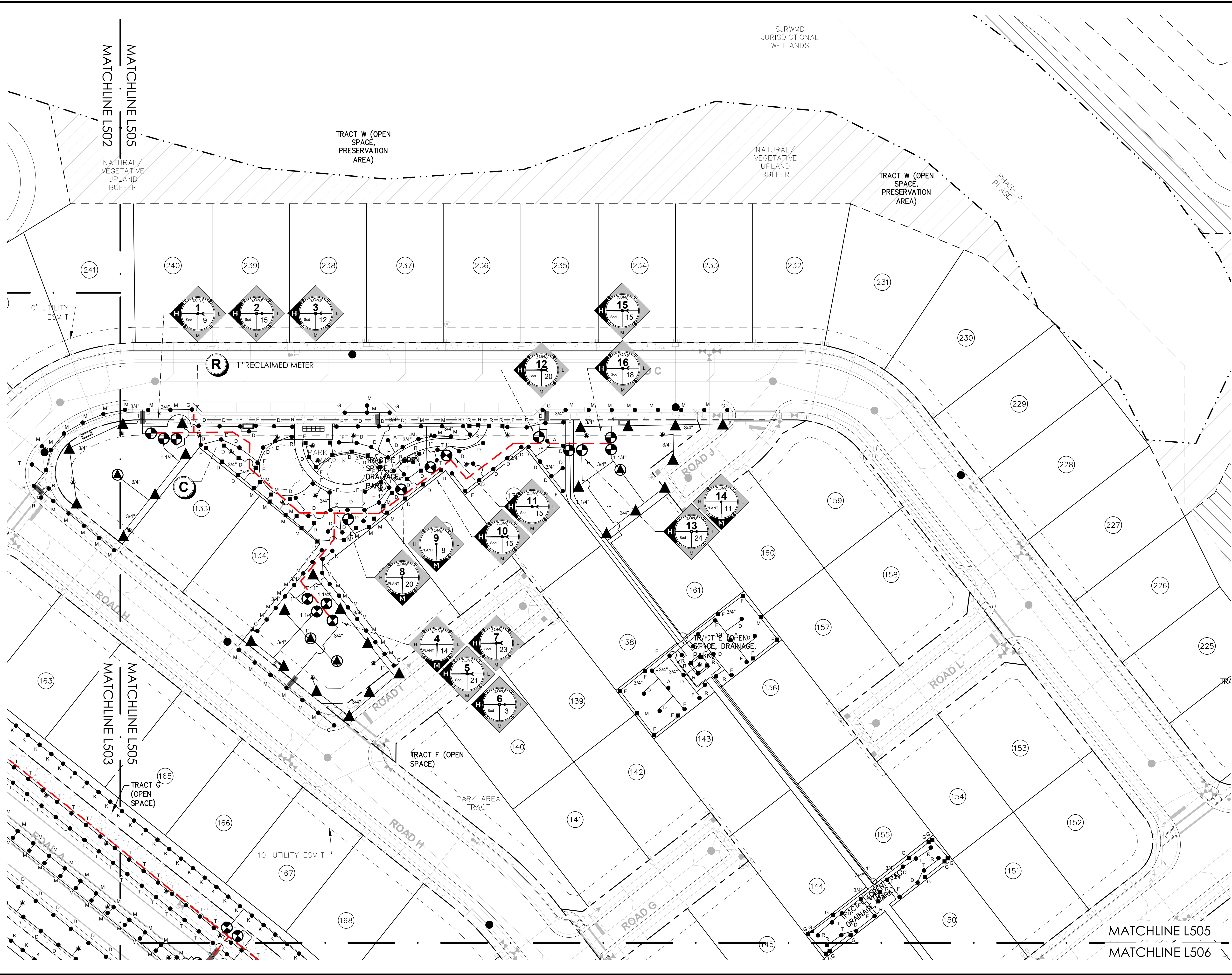
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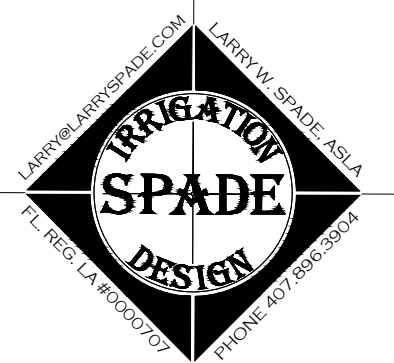
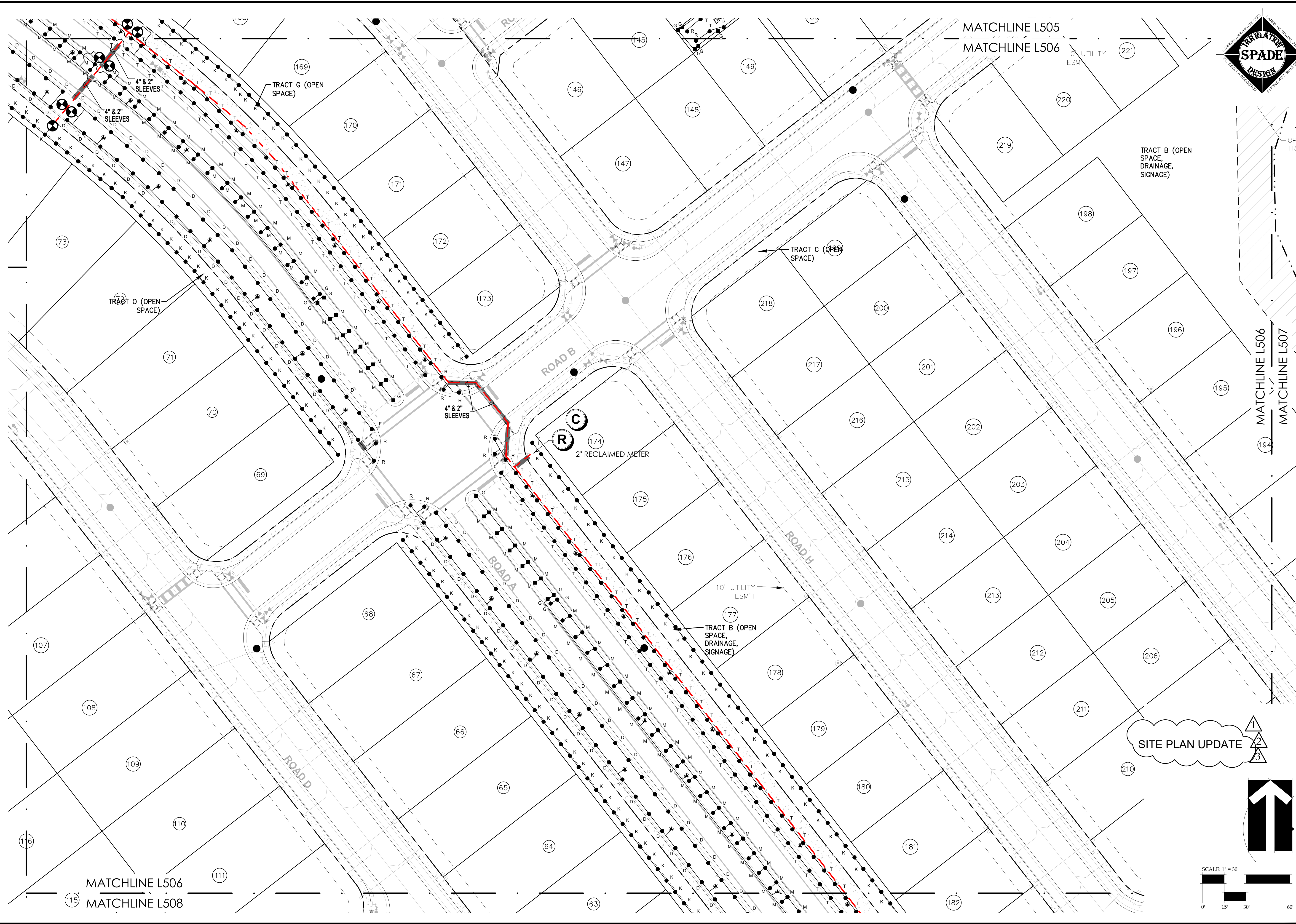


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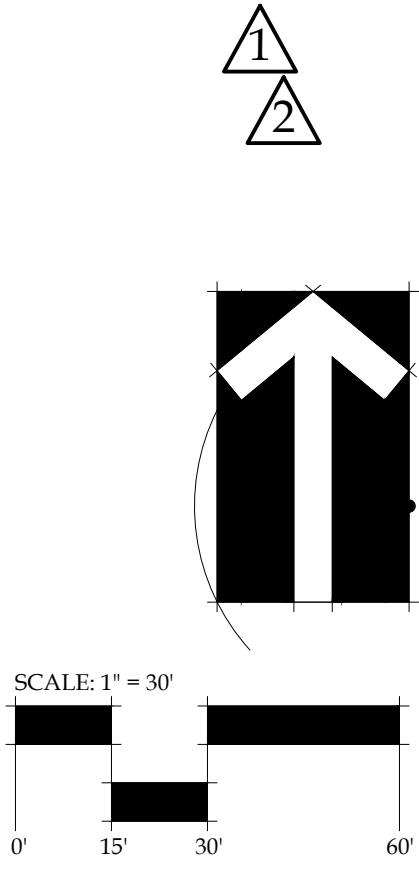
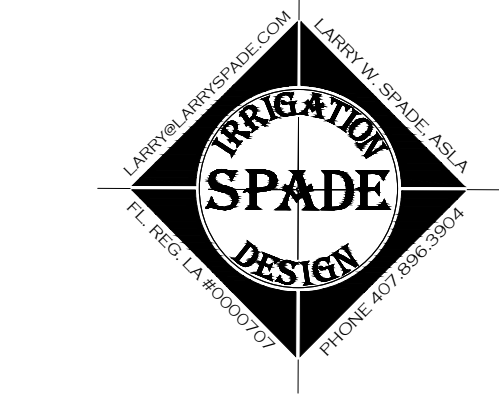
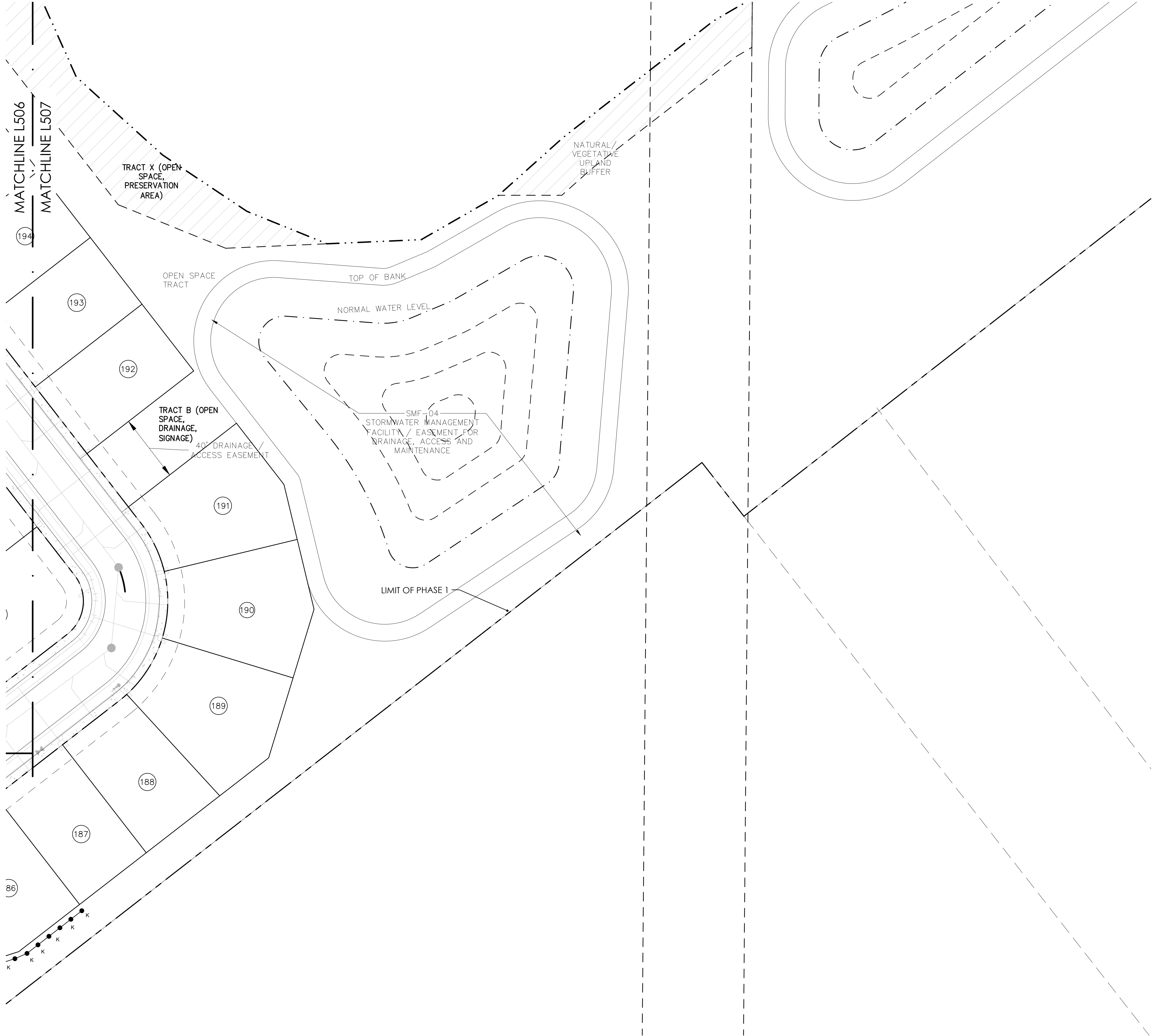
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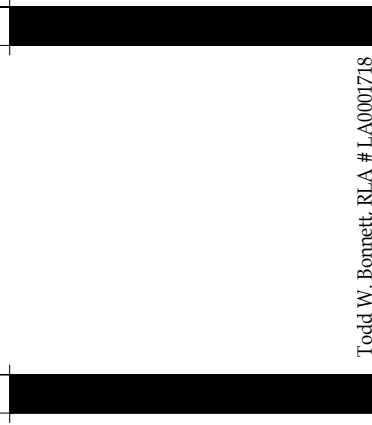
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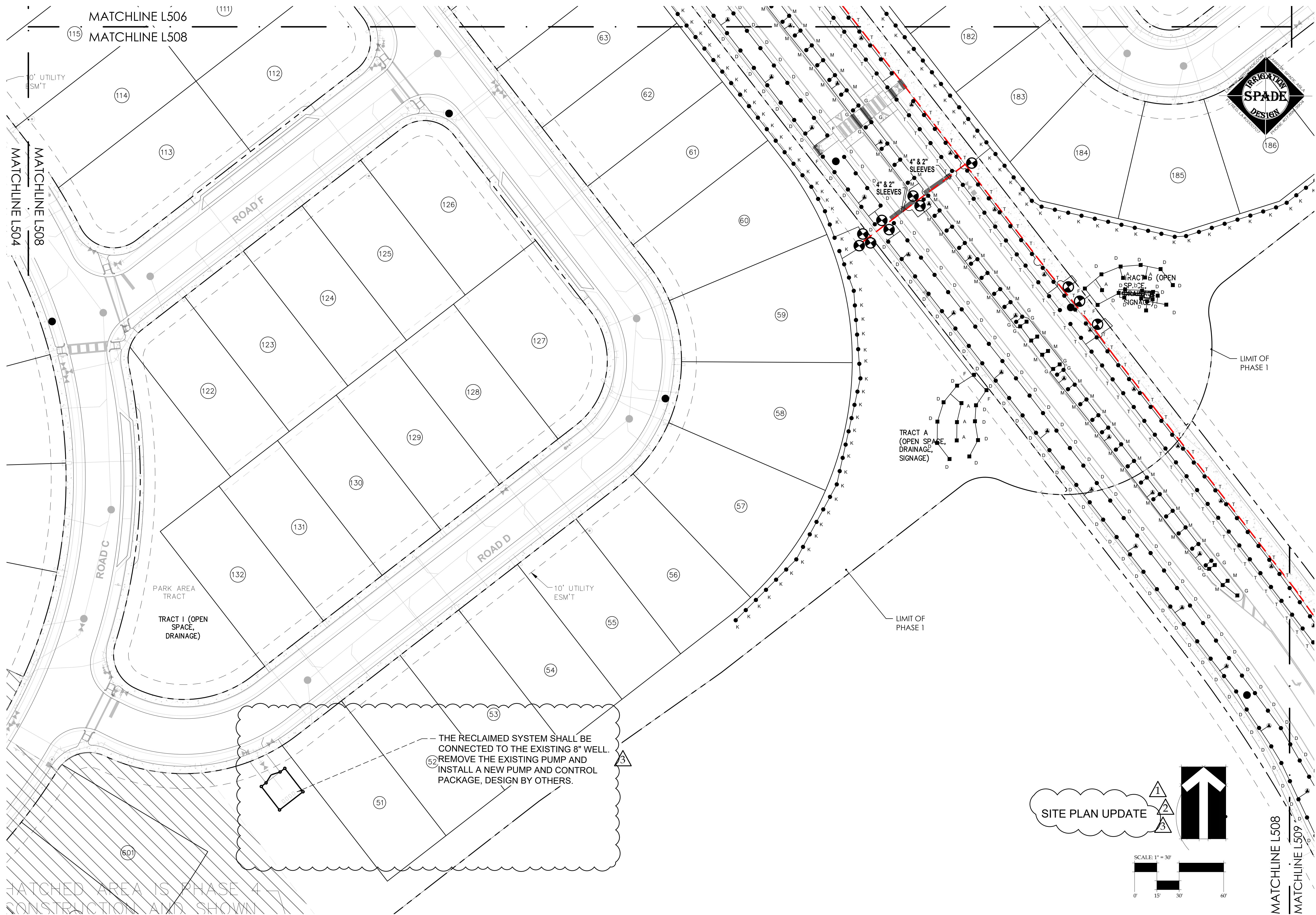
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BONNETT design group, llc
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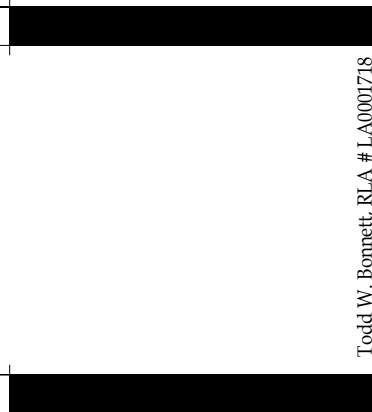
400 South Orlando Ave, Suite 201
Maitland, FL 32751
407.622.1588 voice

Hillside Grove Landscape Architecture Easton & Associates HOWEY-IN-THE-HILLS, FLORIDA IRRIGATION PLAN

PHASE 1

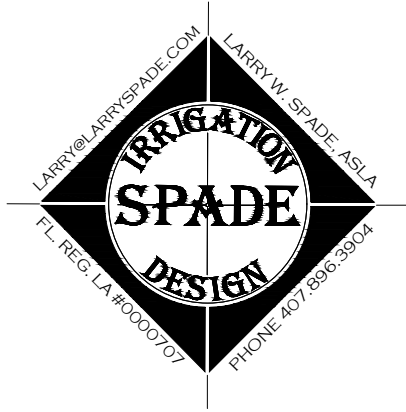
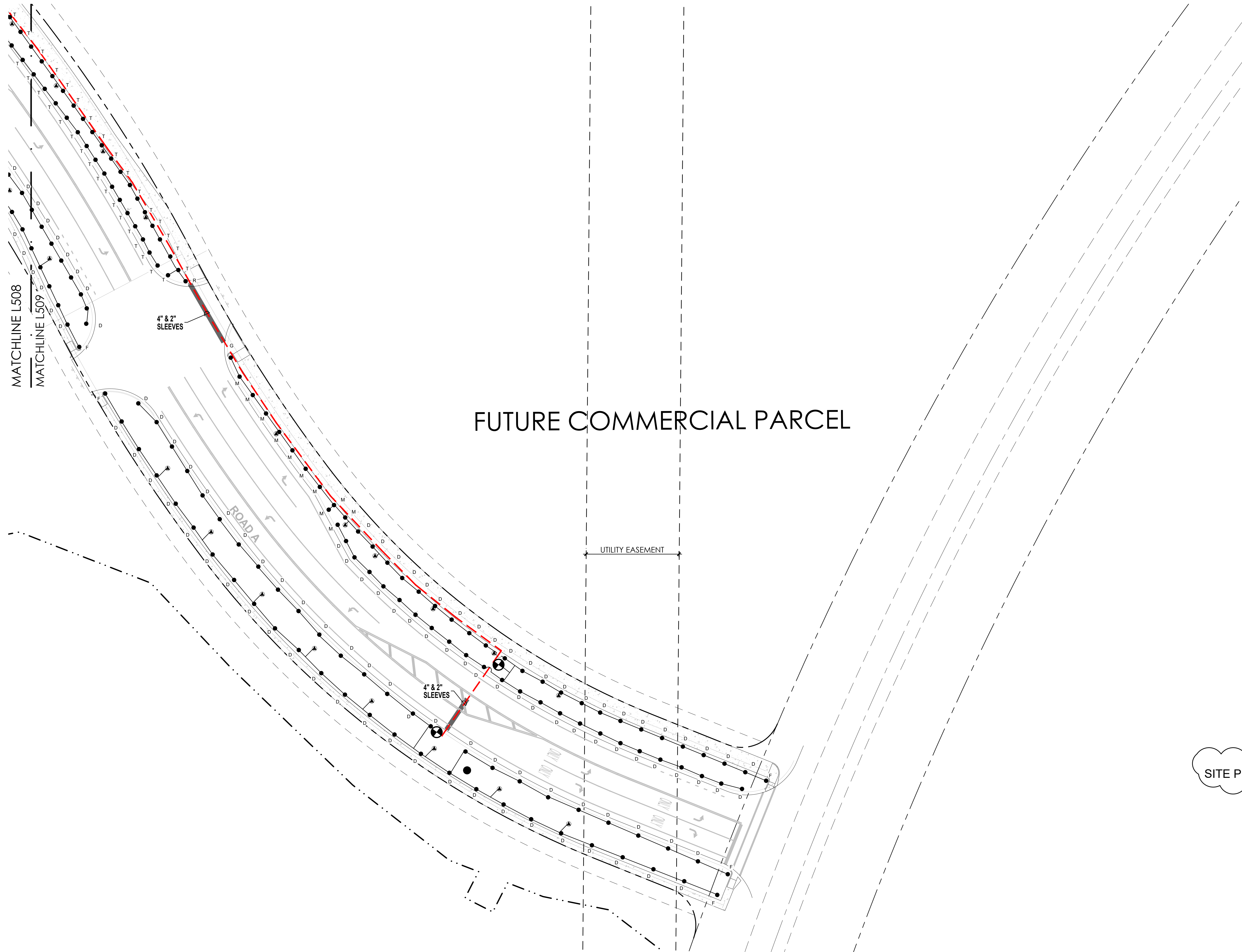
DATE: May 27, 2022
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CHECKED BY: TWB
JOB NUMBER: 2021.195
FILE NAME: 2021.195 LEN - HILLSIDE GROVE PH1_IRBASE

REVISIONS:	
1	City Comments 09-29-2022
2	City Comments 11-17-2022
3	City Comments 06-23-2023



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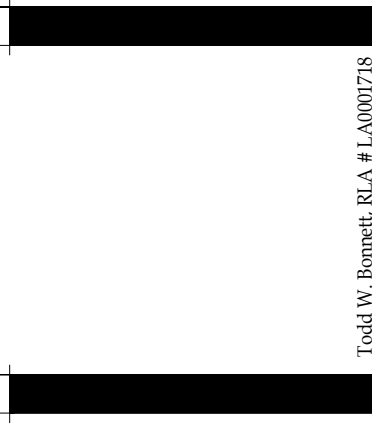
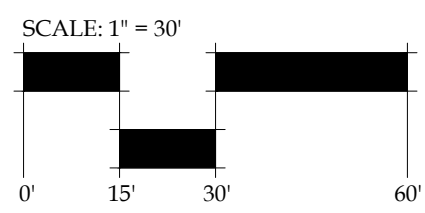
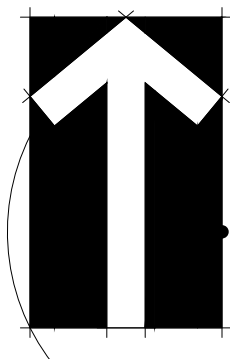
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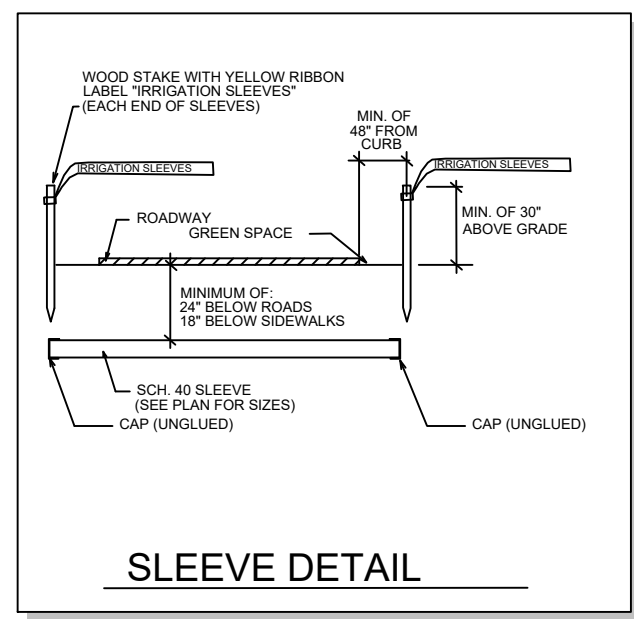
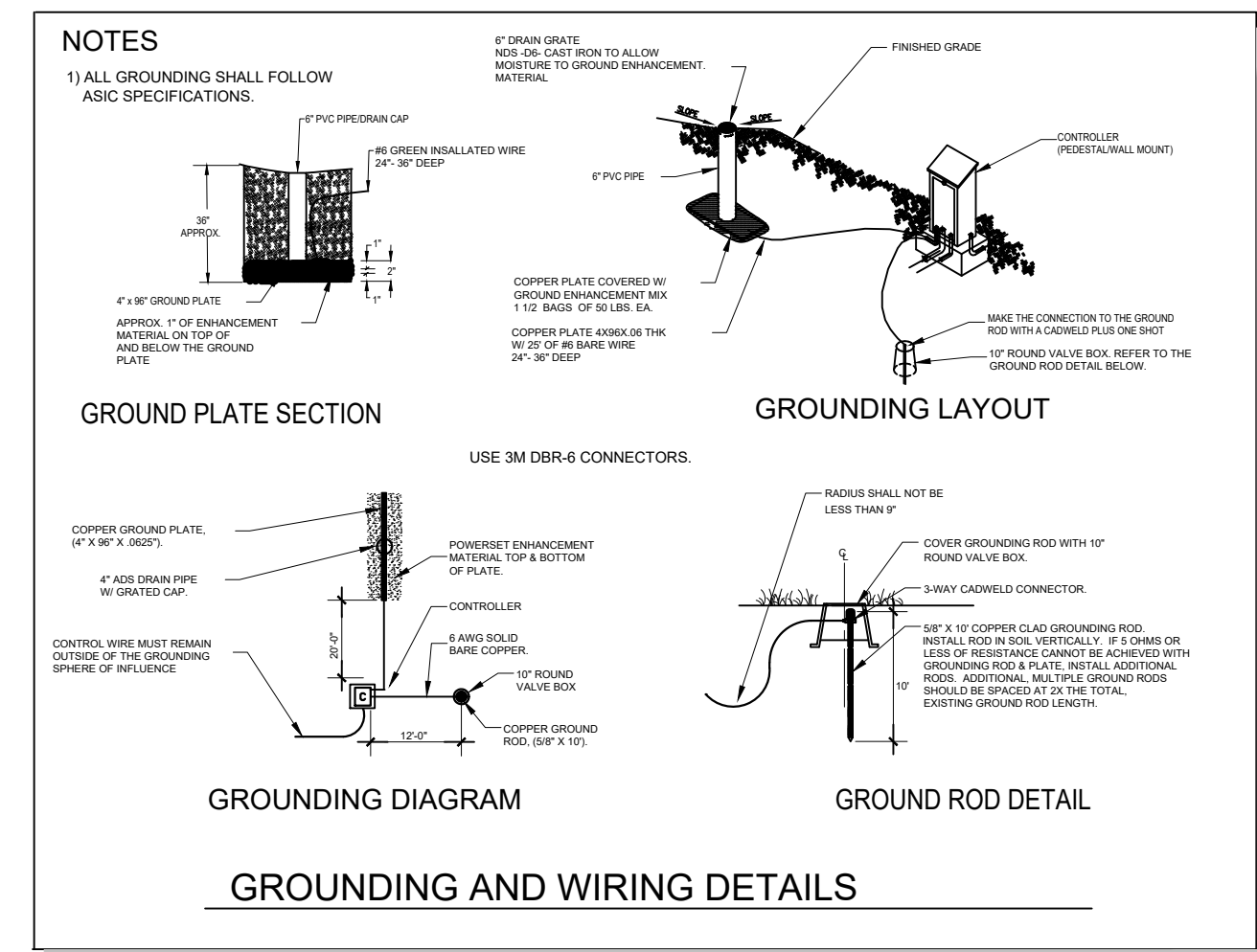
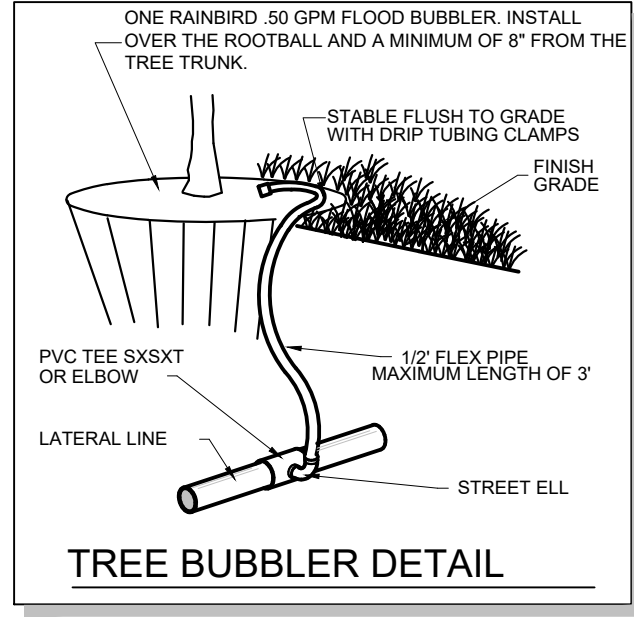
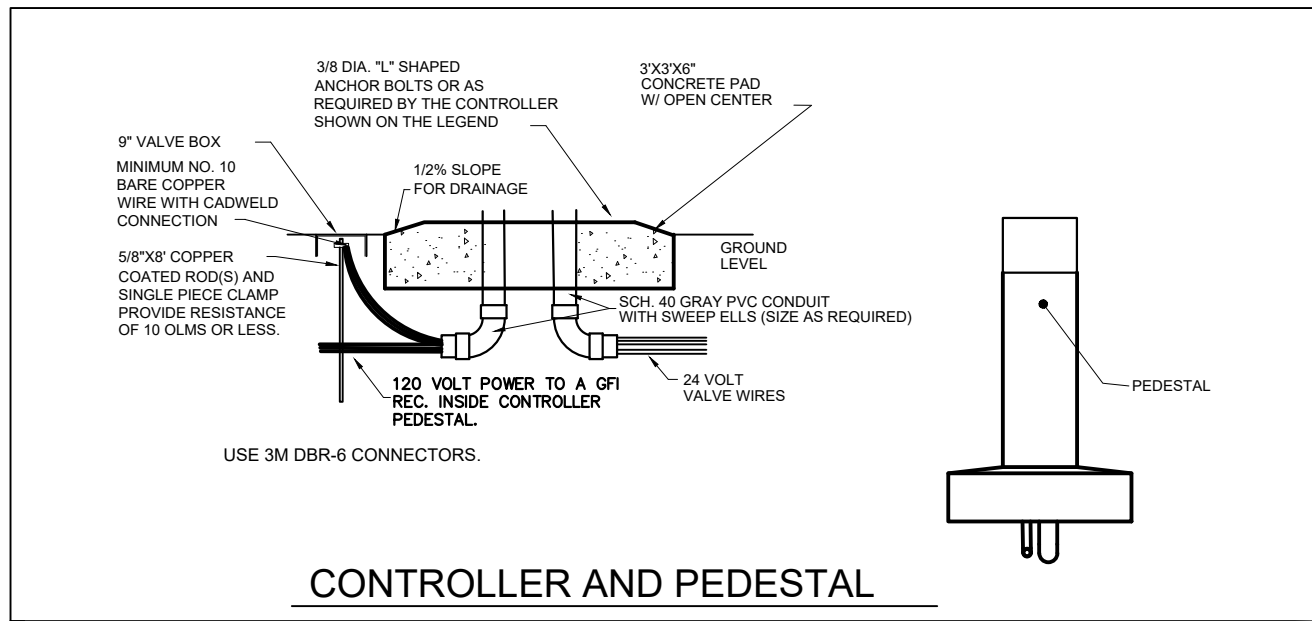
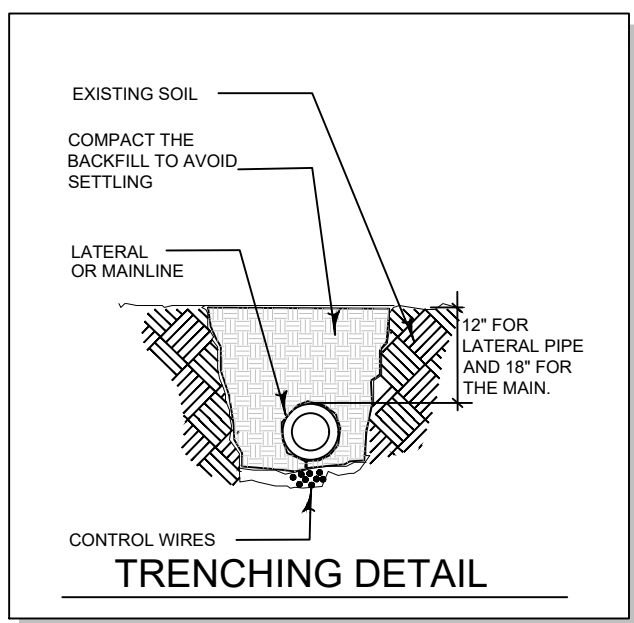
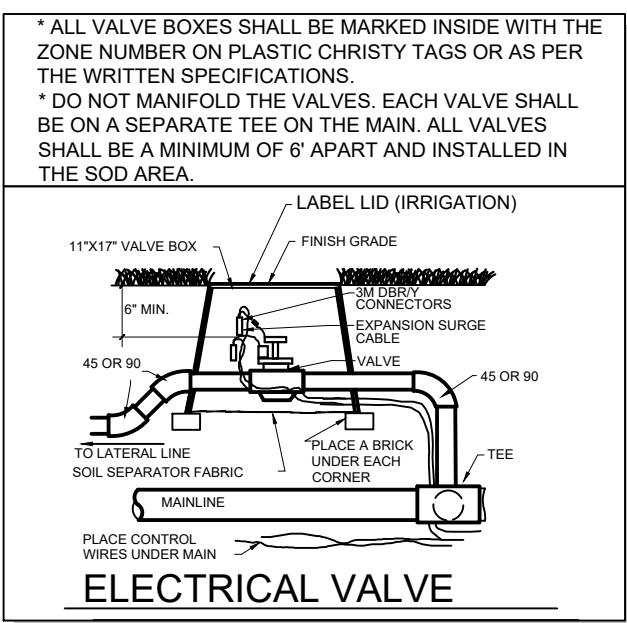
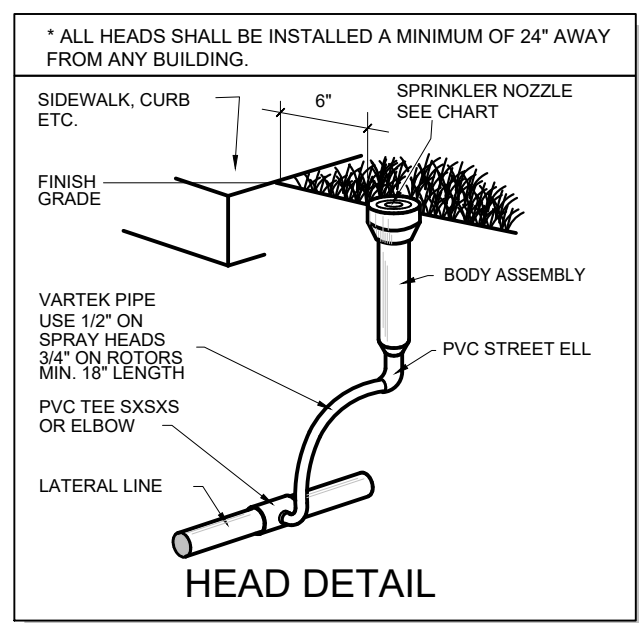
SITE PLAN UPDATE



L509

Todd W. Bonnett, RLA #LA000776

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GENERAL NOTES

- 1) REFER TO THE LANDSCAPE PLANS WHEN TRENCING TO AVOID TREES AND SHRUBS. HAND DIG AROUND ANY EXISTING TREES. DO NOT CUT ANY ROOTS OVER 2" DIAMETER.
- 2) 1" MAINLINE PIPING SHALL BE BURIED TO A MINIMUM DEPTH OF 18" OF COVER. ALL LATERAL PIPING SHALL BE BURIED TO A MINIMUM DEPTH OF 12" OF COVER.
- 3) ALL POP-UP ROTORS AND SPRAYS SHALL BE INSTALLED USING AN 18" PVC FLEX PIPE CONNECTION. DO NOT USE POLYETHYLENE LINE. USE WELDON 737 WITH A PURPLE RIMMER OR RED HOT CHRISTOPH'S BLUE GUEY ON ALL CONNECTIONS.
- 4) ADJUST ALL NOZZLES TO REMOVE WATER WASTE ON HARD SURFACES, WINDOWS AND BLDG. WALLS. THROTTLE ALL VALVES ON SHRUB LINES AS REQUIRED TO PREVENT FOGGING. USE ADJUSTABLE NOZZLES WHERE REQUIRED TO AVOID ANY WATER ON BUILDING WALLINGS.
- 5)
- 6) ALL CONTROL WIRE CONNECTIONS SHALL BE MADE IN VALVE BOXES USING 3M DBR-Y WIRE CONNECTORS AND SEALANT WITH WIRE NUTS.
- 7) THE CONTRACTOR SHALL PREPARE AN AS-BUILT DRAWING SHOWING ALL IRRIGATION INSTALLATION. THE CONTRACTOR SHALL NEATLY MARK IN RED INK ON A WHITE BOARD PAPER COPY OF THE IRRIGATION PLAN ANY INSTALLATION THAT DEVIATES FROM THE PLAN. THE AS-BUILT DRAWING SHALL ALSO LOCATE ALL MAINLINE AND VALVE BOXES. THESE AREAS SHOULD BE MARKED WITH A "V" FOR VALVE BOXES AND A "P" FOR PIPES. THE CONTRACTOR WHEN THE EQUIPMENT IS INSTALLED IN THE EXACT LOCATION AS THE PLAN, PROVIDE THE OWNER A PDF OF THE AS-BUILT PLAN.
- 8) ALL VALVES, GATE VALVES AND QUICK COUPLERS SHALL BE INSTALLED IN VALVE BOXES. THE VALVE BOXES SHALL BE PURPLE WHEN USING RECLAIMED WATER.
- 9) ANY PIPING SHOWN OUTSIDE THE PROPERTY LINE OR RUNNING OUTSIDE A LANDSCAPE AREA IS SHOWN THERE FOR CLARITY ONLY. ALL LINES SHALL BE INSTALLED ON THE LANDSCAPE AND INSIDE THE LANDSCAPE AREAS. AVOID A CURB OR C/OA GLEEVES.
- 10) ALL HEADS SHALL BE INSTALLED A MINIMUM OF 24" FROM ANY WALL AND A MINIMUM OF 6" FROM ANY SIDEWALK, PATIO OR ROAD. (MINIMUM OF 2'-0" WHERE THERE ARE NO BUMPER STOPS) THE EXACT HEIGHT OF 1' ALL 12" POP-UP THAT IS SHOWN IN A SHRUB BED SHALL BE DETERMINED BY THE OWNER'S REPRESENTATIVE IN THE FIELD. INSTANT THE 12" POP-UP SHALL BE DETERMINED BY THE TALL SHRUBS.
- 11) THE CONTRACTOR SHALL EXERCISE CARE SO AS NOT TO DAMAGE ANY EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REPAIRS AND COST OF ANY DAMAGE CAUSED BY THEIR WORK.
- 12) ALL WORK SHALL BE GUARANTEED FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE AGAINST ALL DEFECTS IN EQUIPMENT AND WORKMANSHIP OR AS OUTLINED IN THE WRITTEN SPECIFICATIONS.
- 13) ELECTRICAL SERVICE TO LOCATION OF THE CONTROLLER, WELL OR PUMP SHALL BE PROVIDED TO A JUNCTION BOX OR DISCONNECT AT THE EQUIPMENT LOCATION BY THE ELECTRICAL CONTRACTOR OR THE OWNER. IF THE IRRIGATION CONTRACTOR DOES NOT HAVE ACCESS TO THE MAIN, ALL ELECTRICAL WORK SHALL BE DONE BY THE ELECTRICAL CONTRACTOR BEFORE ANY INSTALLATION.
- 14) IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SCALE THE PLAN AND CHECK NOZZLE SPACING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECT SPACING OF THE NOZZLES. THE CONTRACTOR SHALL NOT SPACE THE HEADS FURTHER APART OR USE LESS HEADS THAN SHOWN ON THE PLAN. ANY CHANGE TO THE HEAD SPACING OR LAYOUT, WITHOUT THE CONSENT OF THE LANDSCAPE ARCHITECT OR OWNER, SHALL BE THE IRRIGATION CONTRACTOR RESPONSIBLE FOR WARRANTY OF THE PLANTS AND/OR SOD IN THESE AREAS.
- 15) 48 HOURS BEFORE DIGGING, CALL 1-800-452-4770 (URSINISH STATE ONE CALL CENTER).
- 16) THE CONTRACTOR SHALL OBTAIN EXTRA CONCRETE MIXTURES TO PATCH THE MAIN. ALL CONTROL WIRES SHALL BE INSTALLED INSIDE OF 30" GRAY PVC CONDUIT WHERE THEY CANNOT BE UNDER THE MAIN.

RECLAIMED WATER REQUIREMENTS

- 1) ALL PIPE SHALL BE THE PURPLE RECLAIMED WATER TYPE.
- 2) ALL SPRINKLER HEADS SHALL HAVE PURPLE INDICATORS.
- 3) ALL MANUAL AND ELECTRIC VALVES SHALL HAVE TAGS TO INDICATE RECLAIMED WATER.
- 4) ALL VALVE BOXES SHALL BE PURPLE WITH PURPLE LIDS TO INDICATE THE PRESENCE OF RECLAIMED WATER.
- 5) ALL EQUIPMENT SHALL BE INSTALLED AS PER ALL LOCAL, COUNTY, STATE, AND FEDERAL CODES. PROVIDE AND INSTALL ALL REQUIRED RECLAIMED WATER SIGNS, COORDINATE PLACEMENT AND TYPE WITH THE RECLAIMED WATER PROVIDER.
- 6) ALL CROSSLINGS OF IRRIGATION PIPING AND POTABLE WATER LINES SHALL HAVE THE VERTICAL CLEARANCE VISUALLY VERIFIABLE TO THE SPECTATOR AS-BUILT DRAWINGS BY DOCUMENTING THE VERTICAL MEASUREMENT SEPARATING THE PIPES.
- 7) ALL RECLAIMED WATER SEPARATION SHALL BE VERIFIABLE AND THE POTABLE AND RECLAIMED WATER LINES SHALL BE A MINIMUM OF 18" SEPARATION SHALL BE VERIFIED AND DOCUMENTED IN A SET OF AS-BUILT DRAWINGS AS PER SPECIFICATIONS. THE HORIZONTAL SEPARATION SHALL BE 5' CENTER TO CENTER & 3' OUTSIDE TO OUTSIDE IF VERTICAL MINIMUM OF 18" IS NOT MAINTAINED.

LEGEND

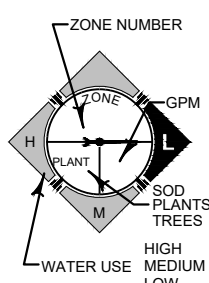
SYMBOL	QUANTITY	SPECIFICATION
	2306	RAINBIRD 1800-PRS-P45 SPRAY SERIES 6" POP-UP
	308	RAINBIRD 1800 PRS-P45 SPRAY SERIES 12" POP-UP
	275	RAINBIRD .5 GPM FLOOD BUBBLER
	52	RAINBIRD 5000 SERIES ROTOR HEAD - FULL CIRCLE 6 GPM
		RAINBIRD 5000 SERIES ROTOR HEAD - PART CIRCLE 3 GPM
	2 1/2"	CLASS 200 PURPLE PVC MAINLINE-2 1/2"
	6016'	
	1 1/2"	CLASS 200 PURPLE PVC MAINLINE-1 1/2"
	REFER TO PLAN	CLASS 200 PVC PURPLE LATERAL LINE- SIZE AS SHOWN UNTIL A SMALLER SIZE IS SHOWN. MINIMUM SIZE OF 3/4" (EXCEPT RISERS AND FLEX PIPE)
	REFER TO PLAN	SCH. 40 SLEEVE (MINIMUM OF 24" DEPTH AND 2 SIZES LARGER THAN THE PIPE SIZE OR AS LABELED ON THE PLAN)
	72	RAINBIRD PESBR-PRS-D2 ELECTRIC VALVE. INSTALL THE VALVE IN A PURPLE ARMOR 11" X 17" VALVE BOX AND COVER. 0-25 GPM=1" 26-50 GPM=1 1/2" 51 AND HIGHER GPM=2"
	4	CONTROLLER-RAINBIRD ESP-LXD-PED PEDESTAL MOUNT.WHERE SHOWN ON THE PLAN. INSTALL WITH A RAINBIRD RAIN SENSOR. GROUND AS PER ASIC SPECIFICATIONS AND DETAILS. SLEEVE TO AS REQUIRED.
	4	POINT OF CONNECTION TO A RECLIMED WATER METER. REFER TO THE UTILITY PLAN FOR THE EXACT LOCATION AND DETAILS.
	1	POINT OF CONNECTION TO A 2" METER. REFER TO THE UTILITY PLAN FOR THE EXACT LOCATION AND DETAILS.

PLANT SHRUB HEAD NOTE

SPRAY HEADS WERE USED IN THE PLANT BEDS INSTEAD OF MICRO-IRRIGATION. THESE ZONES SHALL BE TURNED OFF AFTER THE PLANTS ARE ESTABLISHED.

NOZZLE CHART

LETTER	PRODUCT	G.P.M. @ 40 PSI	RADIUS	RADIUS/ANGLE	ZONE LABELS
A	RAINBIRD R-VAN 18	1.80	13'-18"	FULL	360 °
B	RAINBIRD R-VAN 18	.80	13'-18"	ONE THIRD	120 °
D	RAINBIRD R-VAN 18	.68	13'-18"	HALF	180 °
F	RAINBIRD R-VAN 18	.50	13'-18"	QUARTER	90 °
G	RAINBIRD 1800-15EST	23	4' X 15'	END STRIP	
H	RAINBIRD XPC2	23	4' X 15'	HALF PATTER	
K	RAINBIRD R-VAN 14	1.22	8'-14"	FULL	360 °
M	RAINBIRD 1800-15SST	.46	4' X 30"	SIDE STRIP	
R	RAINBIRD R-VAN 14	.31	8'-14"	QUARTER	90 °
T	RAINBIRD R-VAN 14	.61	8'-14"	HALF	180 °
V	RAINBIRD R-VAN 24	77	17'-24"	QUARTER	90 °
X	RAINBIRD R-VAN 24	154	17'-24"	HALF	180 °
X	RAINBIRD R-VAN 24	2.31	17'-24"	THREE QUAR.	270 °
Y	RAINBIRD R-VAN 24	3.13	17'-24"	FULL	360 °
Z	RAINBIRD R-VAN 18	1.42	13'-18"	THREE QTR.	270 °



THE NOZZLES LISTED SHOW THE TYPE OF RAINBIRD ROTARY NOZZLE THAT SHOULD BE USED. THE CONTRACTOR SHOULD INSTALL THE NOZZLES IN EACH HEAD AS SHOWN BY THE LETTER BESIDE THE HEAD ON THE PLAN. THE GPM, DISTANCE AND ANGLE ON THE NOZZLE CHART ARE APPROXIMATE. THE CONTRACTOR SHALL ADJUST ALL NOZZLES TO PROVIDE THE 100% COVERAGE, BUT LIMIT OVERTHROW ON TO BUILDINGS, WALLS, PAVEMENT, ETC. THE HEADS SHALL BE SPACED AS PER THE PLAN. SCALE THE PLAN FOR DISTANCE AND ANGLE. REMEMBER THAT ALL HEADS ARE SPACED FOR CONVENTIONAL SPRAY HEADS. THE PRECIPITATION RATE FOR THESE NOZZLES IS LESS THAN A CONVENTIONAL SPRAY NOZZLE. FOLLOW THE ZONE CHART FOR AN APPROXIMATE RUN TIME FOR EACH ZONE, BUT SET THE RUN TIME ON THE CONTROLLER BASED ON THE SPECIFIC SITE CONDITIONS.