

L1 **ILLUSTRATIVE PLAN**

L-100 GROUND FLOOR
L-200 LEVEL 2
L-300 LEVEL 3
L-400 LEVEL 4
L-500 LEVEL 5
L-600 LEVEL 6
L-700 ROOF

L2 **PLANT PALETTE**

P-100 PLANT PALETTE
P-200 PLANT SELECTION
P-300 PLANT SELECTION

L3 **TREE SURVEY**
L4 **TREE DISPOSITION**
L5 **LANDSCAPE PLAN**

L-100 GROUND FLOOR
L-200 LEVEL 2
L-300 LEVEL 3
L-400 LEVEL 4
L-500 LEVEL 5
L-600 LEVEL 6
L-700 ROOF
L-701 NORTH FACADE GREEN WALL

L6 **LANDSCAPE DETAILS + NOTES**

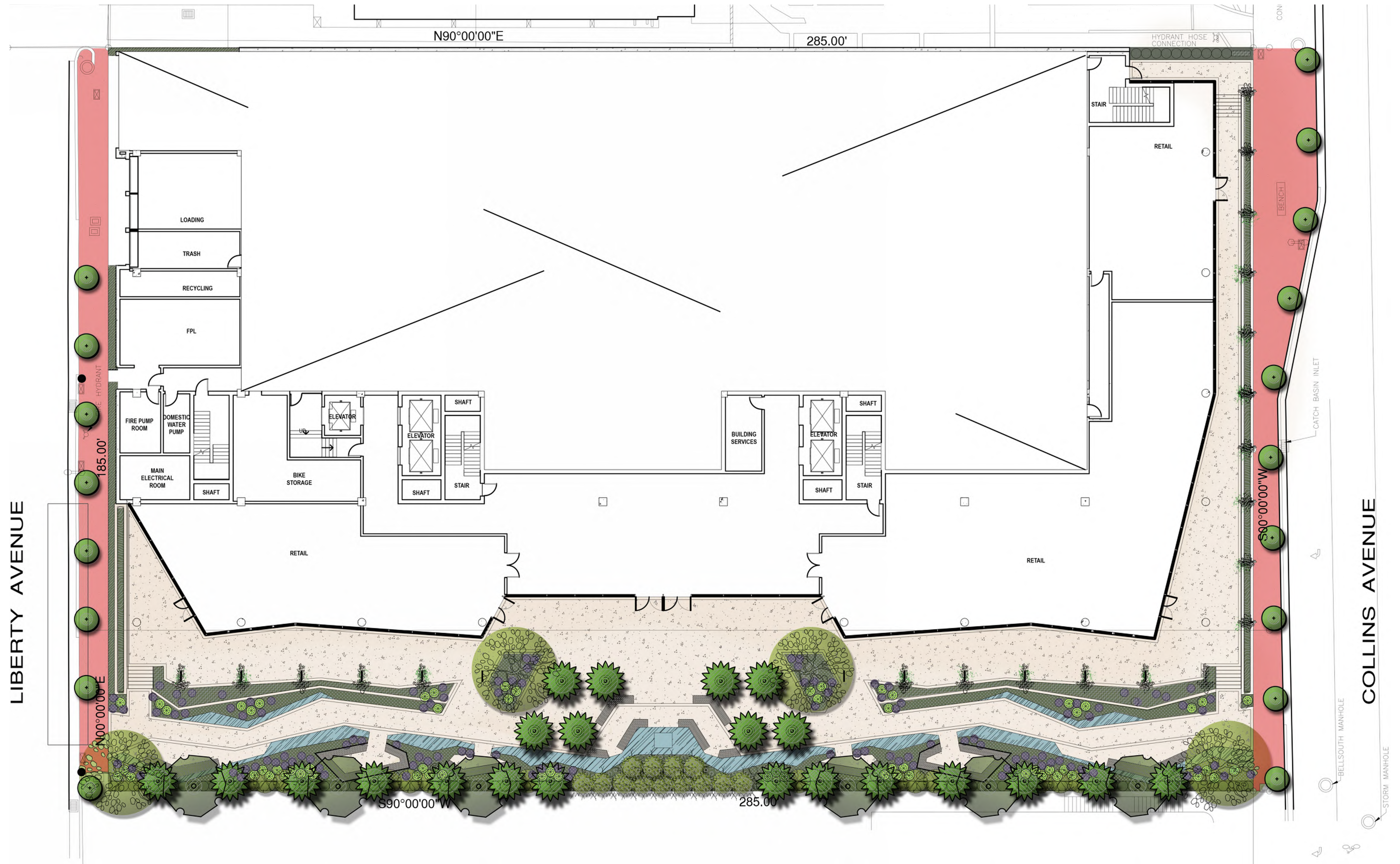
L-800 LANDSCAPE NOTES + DETAILS
L-801 LANDSCAPE NOTES + DETAILS
L-802 LANDSCAPE NOTES + DETAILS

L7 **IRRIGATION PLAN**

IR-100 GROUND FLOOR
IR-200 LEVEL 2
IR-300 LEVEL 3
IR-400 LEVEL 4
IR-500 LEVEL 5
IR-600 LEVEL 6
IR-700 ROOF

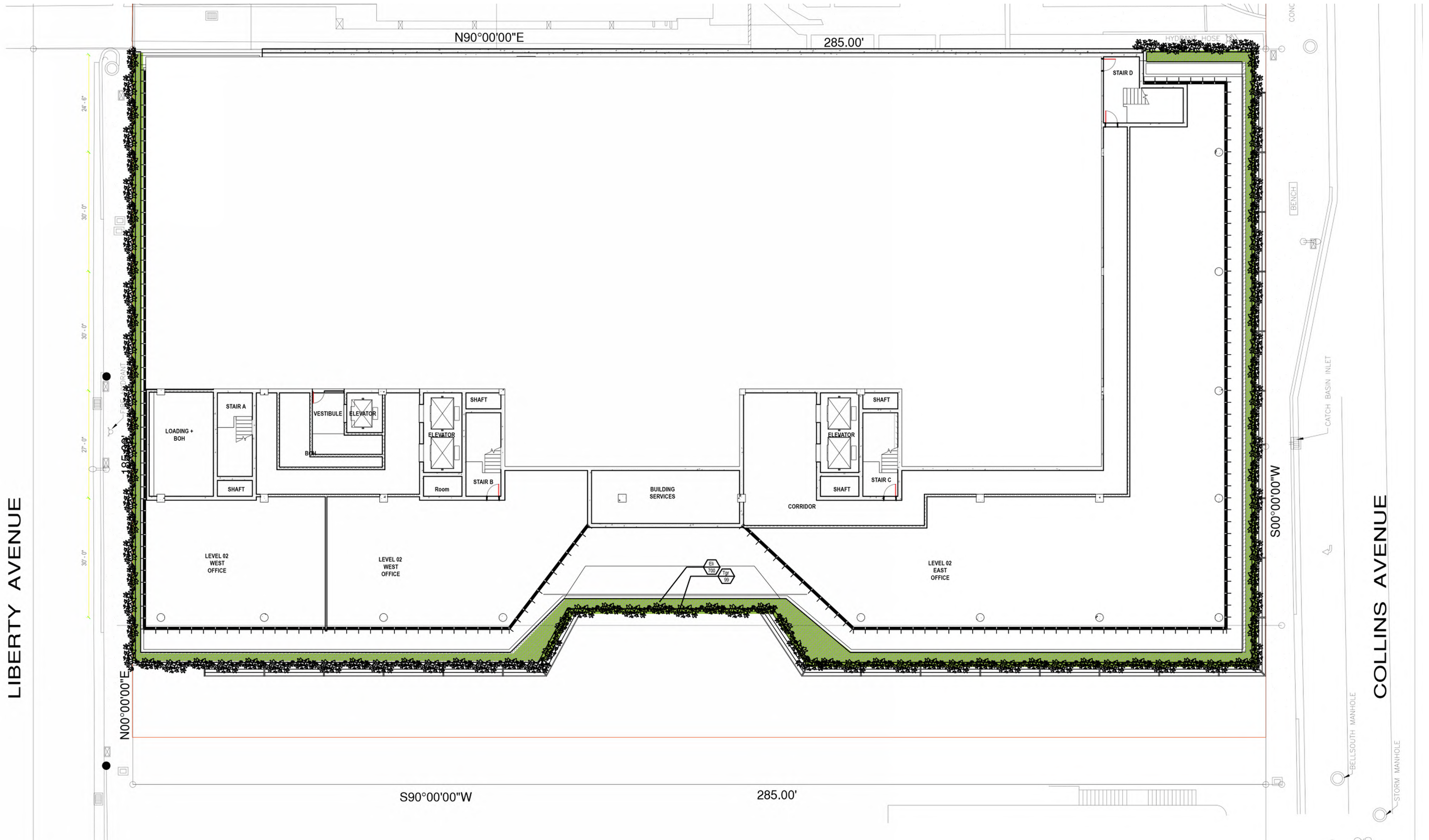
L8 **IRRIGATION DETAILS + NOTES**
L9 **LIGHTING PLAN**

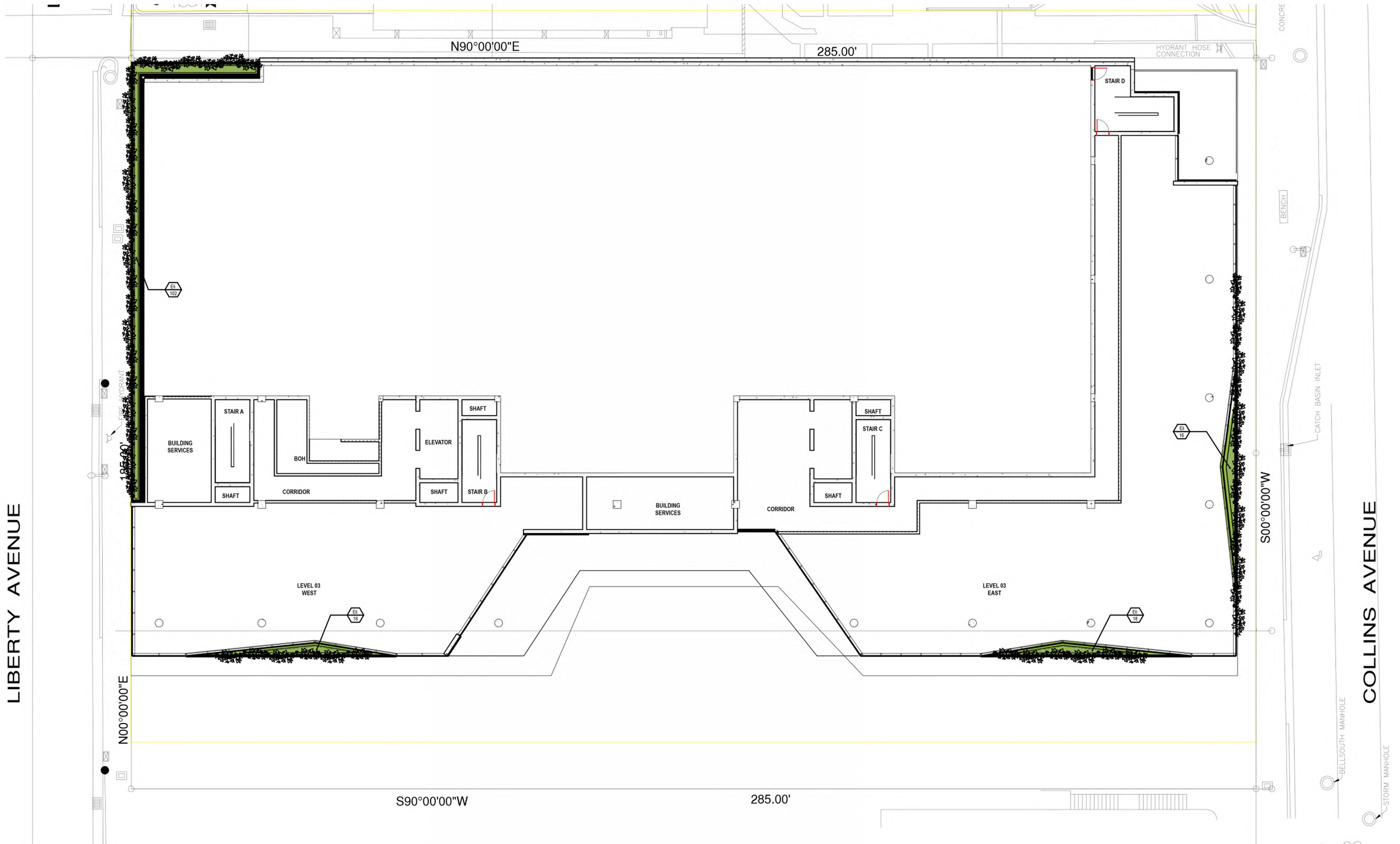
LI-100 GROUND FLOOR
LI-200 LEVEL 4



SCALE: 3/32" = 1'-0"







SCALE: 3/32" = 1'-0"



SCALE: 3/32" = 1'-0"





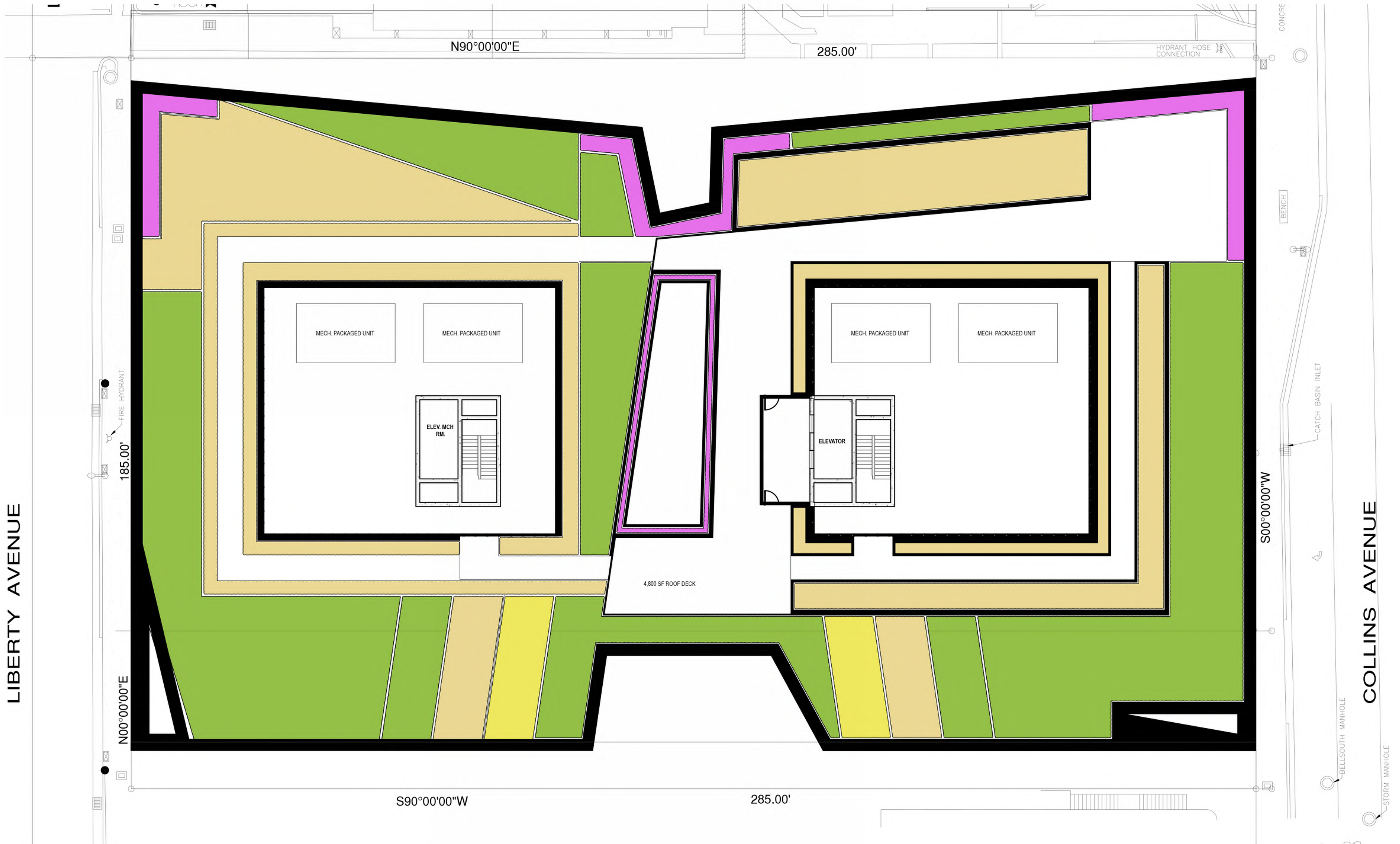
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SCALE: 3/32" = 1'-0"



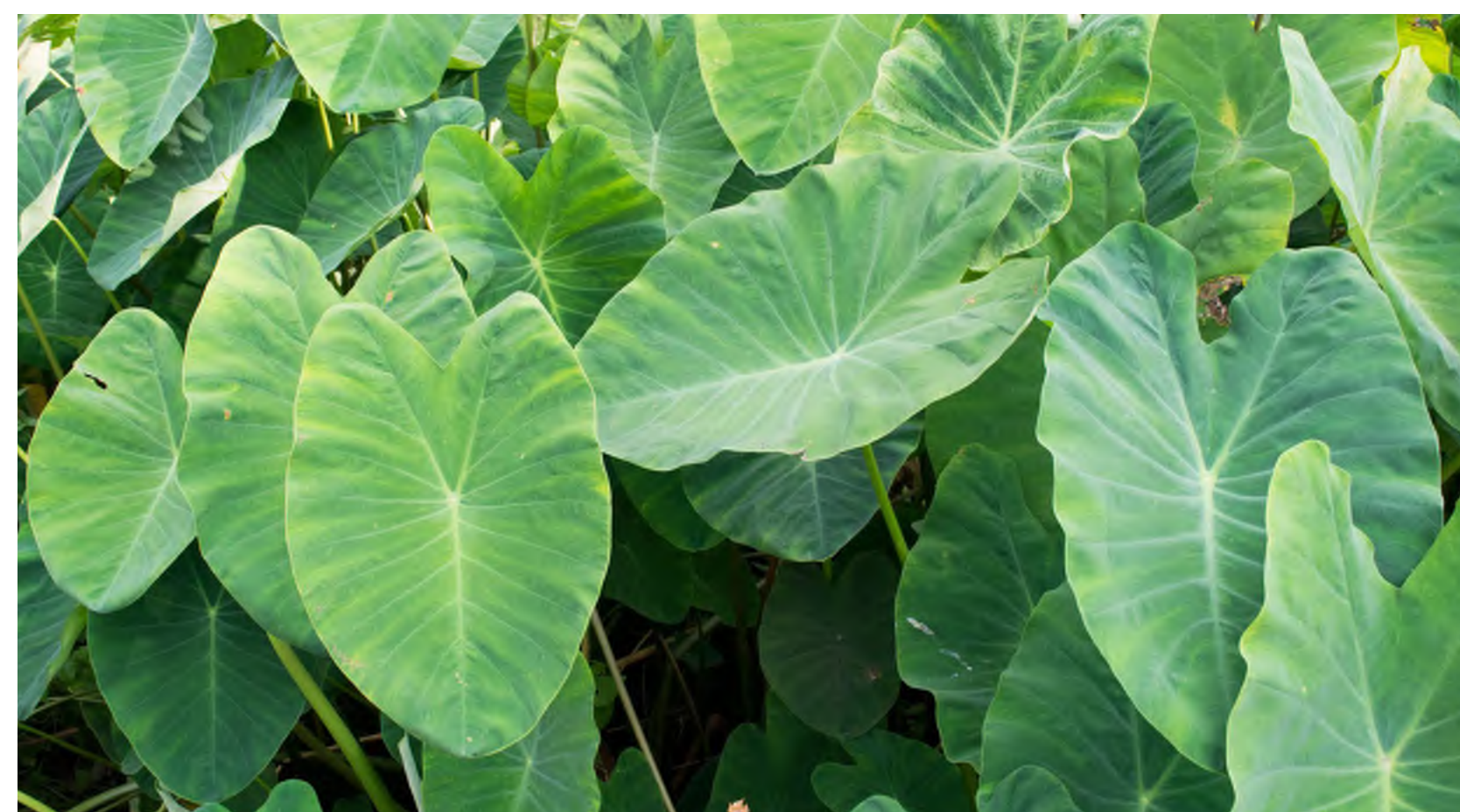
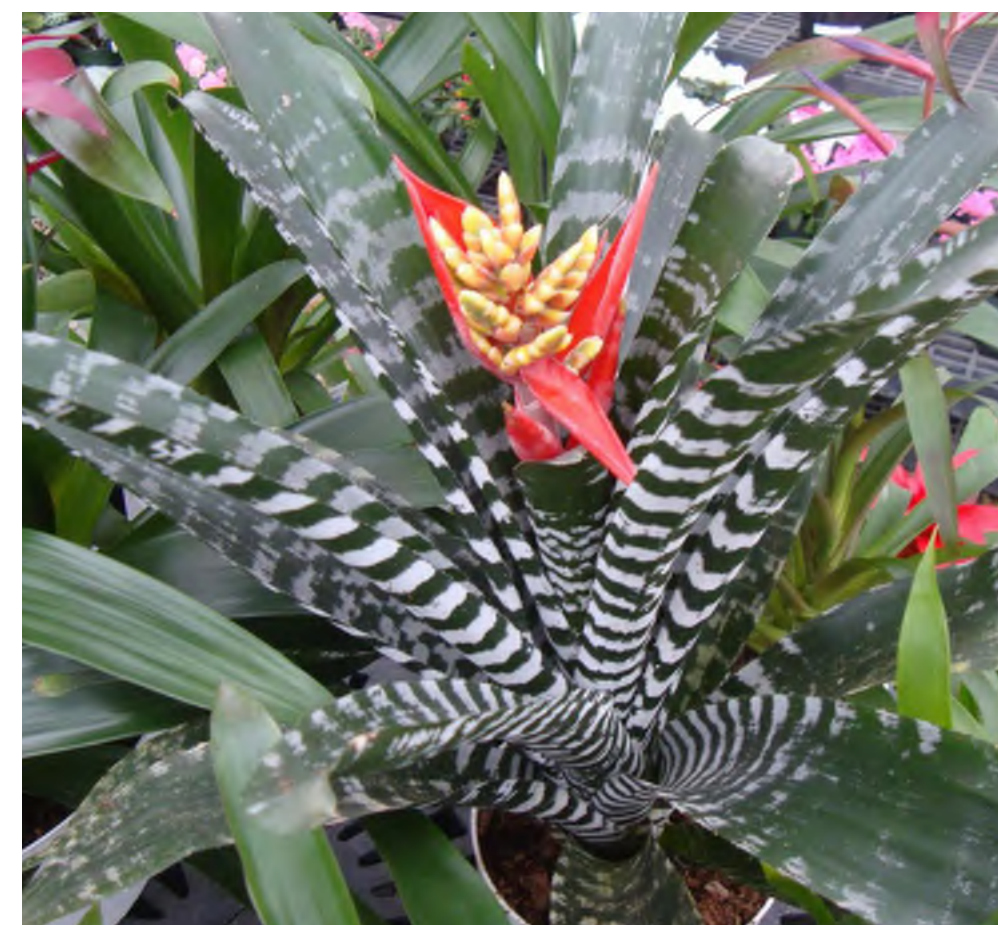


LIBERTY AVENUE

COLLINS AVENUE

SCALE: 3/32" = 1'-0"





SCALE: 3/32" = 1'-0"



TREES



Green Buttonwood
Conocarpus erectus



Strangler Fig
Ficus aurea



White Frangipani
Plumeria obtusa 'Singapore'



Mahogany Tree
Swietenia mahagoni



Silver Buttonwood
Conocarpus erectus
'sericeusues'



Yesterday, Today, Tomorrow
Tibouchina granulosa



Bridal Veil
Caesalpinia granadillo



Pigeon Plum
Coccoloba diversifolia

PALMS



Washington Palm
Washingtonia robusta



Alexander Palm
Ptychosperma elegans

SHRUBS + ACCENTS



Zebra Bromeliad
Aechmea 'Black Chantinii'



Alocasia
Alocasia 'Portadora'



Oldhamii Bamboo
Bambusa Oldhamii



Green Buttonwood
Conocarpus erectus



Black Colocasia
Colocasia esculenta
'Black Royal Hawaiian'



Golden Creeper
Ernodea litorialis



Lily Turf
Liriope muscari



Fakahatchee Grass
Tripsacum dactyloides

SHRUBS + ACCENTS



Rockweed
Pilea microphylla



White Sky Vine
Thunbergia grandiflora 'Alba'



Asiatic Jasmine
Trachelopsernum asicaticum 'Minima'



Vanda Orchid
Vanda spp.



Mascarene Grass
Zoysia tenuifolia

GREEN ROOF



Perennial Peanut
Arachis glabra



Beach Elder
Iva imbricata



Beach Morning Glory
Ipomea imperati



Beach Bean
Canavalia rosea



Sand Cordgrass
Spartina bakeri



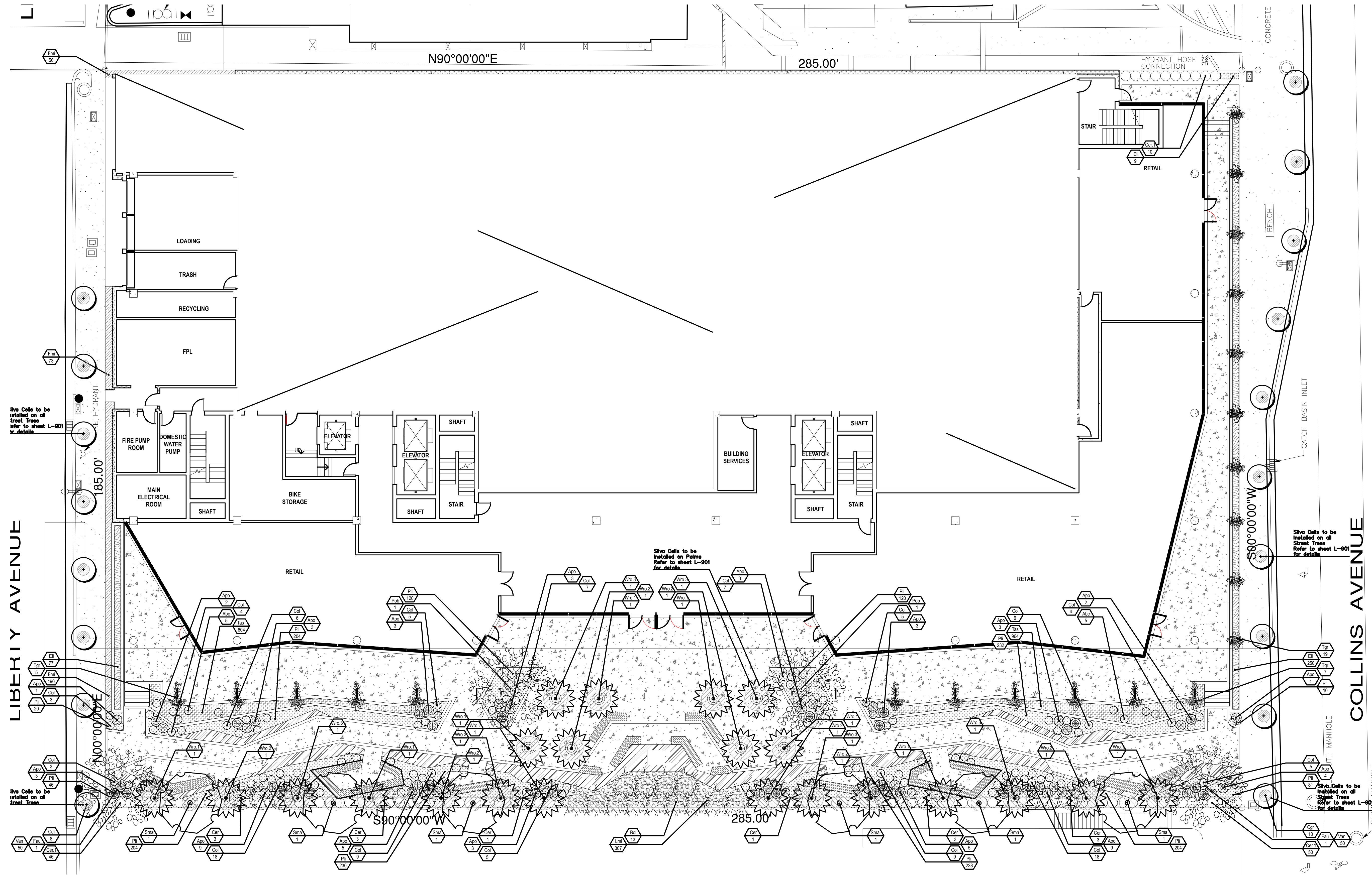
Beach Sunflower
Helianthus debilis

SCALE: 3/32" = 1'-0"



Starwood

Exisitng Trees and Palms						Disposition	Comments
Number	Scientific Name	Common Name	D&H (inches)	HEIGHT (feet)	SPREAD (feet)		
1	Coccoloba uvifera	Seagrape	15	16	22	Remove	Good
2	Coccoloba uvifera	Seagrape	8	15	18	Remove	Moderate
3	Coccoloba uvifera	Seagrape	13	19	20	Remove	Moderate
4	Norhania emarginata	Madagascar Olive	21	16	22	Remove	Good
5	Sabal palmetto	Sabal Palm	0	0	9	Remove	Good
6	Conocarpus erectus	Green Buttonwood	5	14	18	Remove	Moderate
7	Conocarpus erectus	Green Buttonwood	6	12	20	Remove	Moderate
8	Coccoloba uvifera	Seagrape	4	10	9	Remove	Poor
9	Conocarpus erectus	Green Buttonwood	15	25	25	Remove	Good
10	Conocarpus erectus	Green Buttonwood	9	25	22	Remove	Good
11	Sabal palmetto	Sabal Palm	14	8	14	Remove	Good
12	Conocarpus erectus	Green Buttonwood	10	25	25	Remove	Good
13	Conocarpus erectus	Green Buttonwood	9	25	25	Remove	Good
14	Coccoloba diversifolia	Pigeon Plum	7	13	15	Remove	Good
15	Conocarpus erectus	Green Buttonwood	10	25	30	Remove	Good
16	Conocarpus erectus	Green Buttonwood	7	25	22	Remove	Good
17	Conocarpus erectus	Green Buttonwood	10	28	42	Remove	Good
18	Coccoloba diversifolia	Pigeon Plum	7	14	12	Remove	Good
19	Coccoloba uvifera	Seagrape	14	25	30	Remove	Good
20	Coccoloba uvifera	Seagrape	4	12	15	Remove	Moderate
21	Coccoloba uvifera	Seagrape	10	22	23	Remove	Good
22	Sabal palmetto	Sabal Palm	14	9	12	Remove	Good
23	Sabal palmetto	Sabal Palm	13	13	16	Remove	Good
24	Sabal palmetto	Sabal Palm	13	10	12	Remove	Good
25	Sabal palmetto	Sabal Palm	11	12	14	Remove	Good
26	Sabal palmetto	Sabal Palm	12	13	14	Remove	Good
27	Sabal palmetto	Sabal Palm	14	12	14	Remove	Good
28	Sabal palmetto	Sabal Palm	13	12	12	Remove	Good
29	Sabal palmetto	Sabal Palm	12	12	12	Remove	Good
30	Sabal palmetto	Sabal Palm	14	12	14	Remove	Good
31	Sabal palmetto	Sabal Palm	11	10	16	Remove	Good
32	Sabal palmetto	Sabal Palm	14	10	14	Remove	Good
33	Coccoloba uvifera	Seagrape	15	22	40	Remove	Moderate
34	Coccoloba uvifera	Seagrape	15	22	24	Remove	Good
35	Coccoloba uvifera	Seagrape	16	22	25	Remove	Good
36	Conocarpus erectus	Green Buttonwood	8	30	20	Remove	Good
37	Conocarpus erectus	Green Buttonwood	11	30	34	Remove	Good
38	Coccoloba diversifolia	Pigeon Plum	4	14	8	Remove	Dead
39	Conocarpus erectus	Green Buttonwood	10	30	25	Remove	Good
40	Conocarpus erectus	Green Buttonwood	9	25	23	Remove	Good
41	Conocarpus erectus	Green Buttonwood	8	32	24	Remove	Good
42	Conocarpus erectus	Green Buttonwood	7	20	20	Remove	Good
43	Conocarpus erectus	Green Buttonwood	12	30	24	Remove	Good
44	Coccoloba uvifera	Seagrape	23	25	30	Remove	Good
45	Coccoloba uvifera	Seagrape	13	18	18	Remove	Moderate
46	Coccoloba uvifera	Seagrape	23	24	30	Remove	Poor
47	Unknown	Unknown	4	12	5	Remove	Dead
48	Conocarpus erectus 'Sericeus'	Silver Buttonwood	1	8	8	Remove	Good
49	Unknown	Unknown	2	12	3	Remove	Dead
50	Unknown	Unknown	3	12	3	Remove	Dead
51	Coccoloba diversifolia	Pigeon Plum	8	12	12	Remove	Poor
52	Coccoloba diversifolia	Pigeon Plum	5	12	12	Remove	Good
53	Sabal palmetto	Sabal Palm	13	13	12	Remove	Good
54	Sabal palmetto	Sabal Palm	13	13	12	Remove	Good
55	Sabal palmetto	Sabal Palm	11	12	10	Remove	Good
56	Sabal palmetto	Sabal Palm	13	12	12	Remove	Good
57	Sabal palmetto	Sabal Palm	16	13	12	Remove	Good
58	Coccoloba diversifolia	Pigeon Plum	14	14	12	Remove	Moderate
59	Coccoloba diversifolia	Pigeon Plum	17	12	12	Remove	Poor
60	Coccoloba diversifolia	Pigeon Plum	7	14	12	Remove	Moderate
61	Coccoloba diversifolia	Pigeon Plum	14	15	15	Remove	Good
62	Coccoloba diversifolia	Pigeon Plum	5	13	12	Remove	Good
63	Coccoloba diversifolia	Pigeon Plum	7	13	12	Remove	Good
	Note: Trees and Palms will be donated to the City of Miami Beach						
	Pending coordination with Parks and Recreation and Urban Forestry.						



LANDSCAPE LIST SHEET L-100			
TREES			
SYMBOL	QUAN.	PROPOSED MATERIAL	DESCRIPTION
Cdi	8	"Coccoloba diversifolia	14" O.A. HT., 7" C.T., 6" SPR.
		PIGEON PLUM TREE	F.G. FLORIDA GRADE #1
Cer	14	"Conocarpus erectus	12" O.A. HT., 5" C.T., 6" SPR., 2" CALIPER
		GREEN BUTTWOOD TREE	45 GAL. FLORIDA GRADE #1
Cgr	10	"Caesalpinia granadillo	14" O.A. HT., 7" C.T., 6" SPR.
		BIRIALVEIL TREE	F.G. FLORIDA GRADE #1
Fau	2	Ficus aurea	18" O.A. HT., 8" C.T., 12" SPR.
		STRANGLER FIG	F.G. - SPECIMEN TO BE COLLECTED
Pob	2	Plumeria obtusa 'Singapore'	6" O.A. HT., 4" C.T., 6" SPR.
		WHITE FRANGIPANI	65 GAL.
Sma	6	"Swietenia mahagoni	16" O.A. HT., 8" C.T., 16" SPR.
		MAHOGANY TREE	F.G. FLORIDA GRADE #1

PALMS			
SYMBOL	QUAN.	PROPOSED MATERIAL	DESCRIPTION
Wro.1	8	Washingtonia robusta	18" GW, 28" O.A. PLANTED HT., 10" SPR.
		WASHINGTON PALM	F.G.
Wro.2	8	Washingtonia robusta	24" GW, 34" O.A. PLANTED HT., 10" SPR.
		WASHINGTON PALM	F.G.
Wro.3	6	Washingtonia robusta	30" GW, 38" O.A. PLANTED HT., 10" SPR.
		WASHINGTON PALM	F.G.

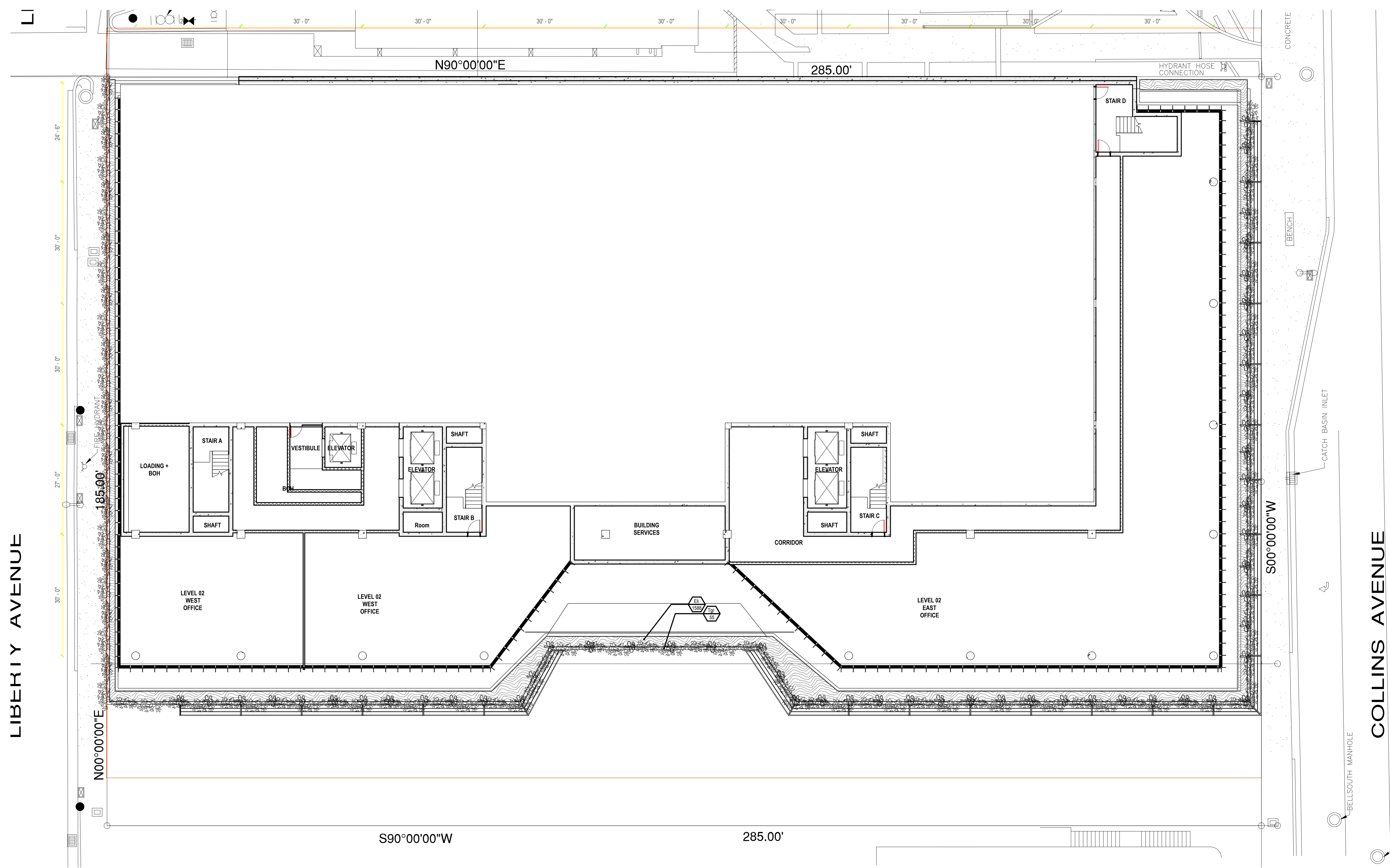
SHRUBS, GROUNDCOVERS & ACCENTS			
SYMBOL	QUAN.	PROPOSED MATERIAL	DESCRIPTION
Abc	10	Aechmea 'Black Chantini'	24" O.C. X 24" O.A. PLANTED HT.
		Black Chantini Bromeliad	3 GAL.
Apo	62	Alcassia 'Portadora'	24" O.C. X 24" O.A. PLANTED HT.
		ALCASSIA/PORTADORA	7 GAL.
Bol	13	Bambusa oldhami	5" O.C. X 20" O.A. PLANTED HT. HEAVY CLUMP
		OLDHAMII BAMBOO	45 GAL.
Cer.1	106	"Conocarpus erectus	30" O.C. X 6" O.A. PLANTED HT., 36" SPR.
		GREEN BUTTWOOD	15 GAL.
Col	114	Colocasia esculenta 'Royal Hawaiian Black Coral'	12" O.C.
		BLACK COLOCASIA	3 GAL.
Eli	336	"Erinodes littoralis	12" O.C. 24" SPR
		GOLDEN BEACH CREEPER	3 GAL.
Fmi	313	Ficus microcarpa	10" O.C.
		GREEN ISLAND FIGUS	3 GAL.
Lmu	307	Liriope muscari	12" O.C.
		LILY TURF	3 GAL.
Pli	1,699	Pilea microphylla	12" O.C.
		ROCKWEED	3 GAL.
Tas	1,768	Trachelospermum asiaticum 'Minima'	6" O.C.
		ASIATIC JASMINE	4" CELL
Tgr	31	Thunbergia grandiflora 'aba'	48" O.A. HT.
		SKY VINE	7 GAL. TRAINED ON COLUMN W/ BLOOMS
Van	100	Vanda spp.	MOUNTED TO TREE
		VANDA ORCHID	1 GAL., PURPLE, PINK, WHITE

MULCH			
BAGS	SQ. FT.	PROPOSED MATERIAL	DESCRIPTION
279	3,344	Florimulch	2" THICK
25	444	Peat Moss	1" THICK, 1.5 CU. FT.

* DENOTES NATIVE SPECIES

SCALE: 3/32" = 1'-0"





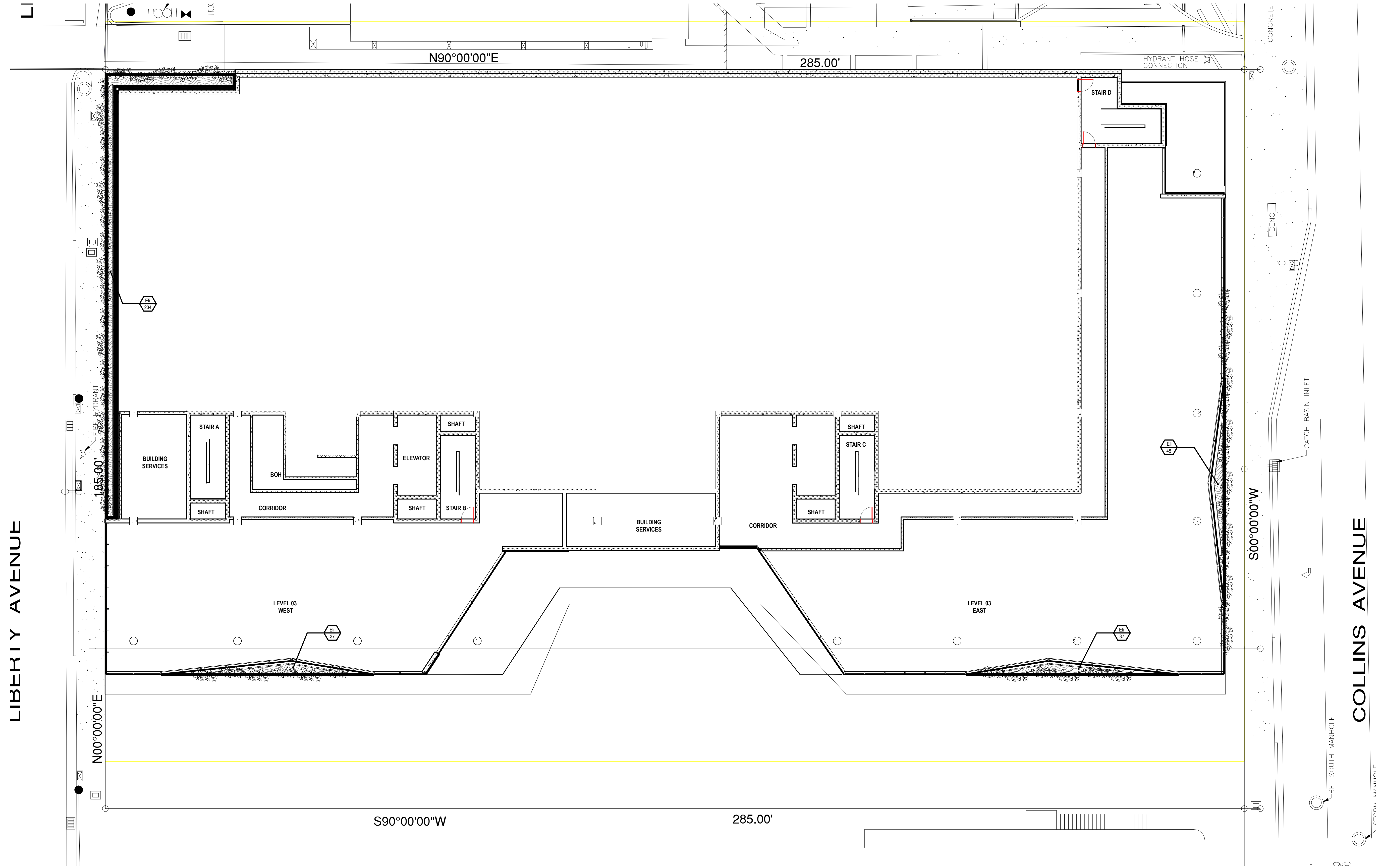
LANDSCAPE LIST SHEET L-200				
SHRUBS				
SYMBOL	QUAN.	PROPOSED MATERIAL	DESCRIPTION	
Tgr	55	Thunbergia grandiflora 'aloe'	48" O.A. HT.	
		SKY VINE	7 GAL. TRAINED ON COLUMN W/ BLOOMS	
Eli	1,588	*Erodia littoralis	12" O.C. 24" SPR	
		GOLDEN BEACH CREEPER	3 GAL.	

MULCH				
BAGS	SQ. FT.	PROPOSED MATERIAL	DESCRIPTION	
133	1,588	Flormulch	2" THICK	
			2 CU. FT. BAGS	

* DENOTES NATIVE SPECIES

LIBERTY AVENUE

COLLINS AVENUE



LANDSCAPE LIST SHEET L-300			
SHRUBS			
SYMBOL	QUN.	PROPOSED MATERIAL	DESCRIPTION
Eli	353	*Eriodendron littoralis	12" O.C. 24" SPR
		GOLDEN BEACH CREEPER	3 GAL.

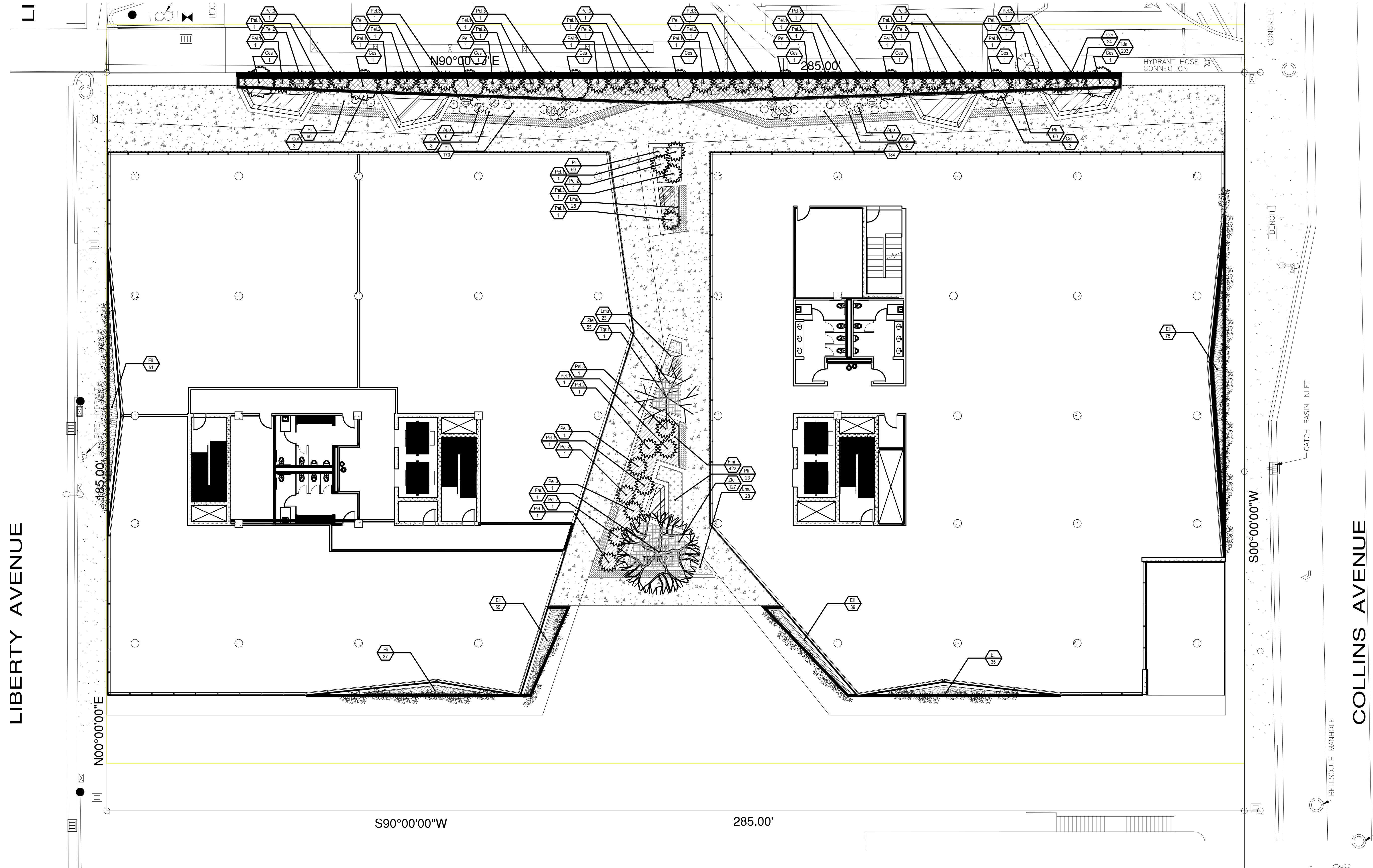
MULCH			
BAGS	SQ. FT.	PROPOSED MATERIAL	DESCRIPTION
30	353	Flormulch	2" THICK
			2 CU. FT. BAGS

* DENOTES NATIVE SPECIES

LIBERTY AVENUE

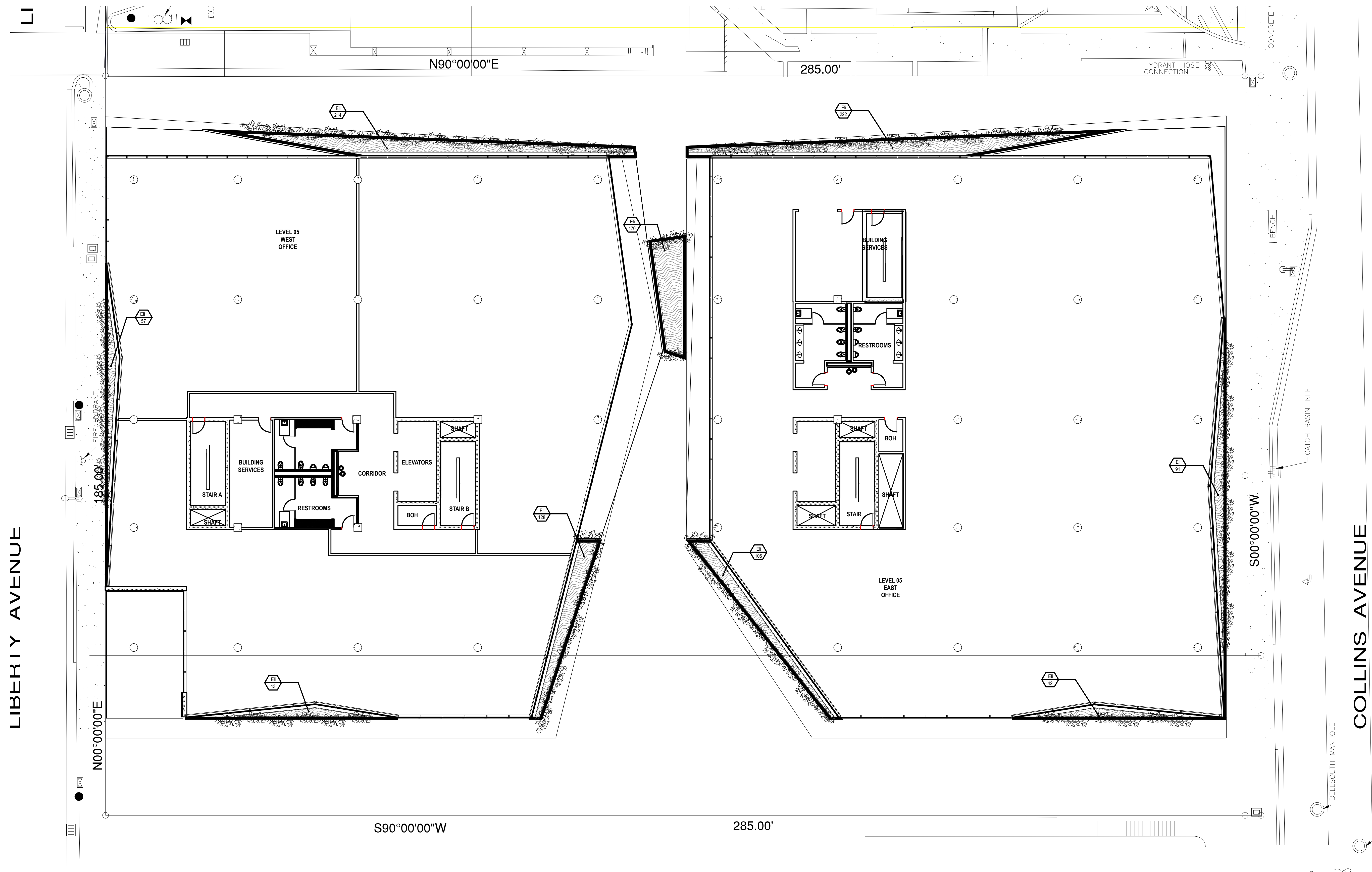
COLLINS AVENUE


SCALE: 3/32" = 1'-0"



LANDSCAPE LIST SHEET L-400				
TREES				
SYMBOL		QUAN.	PROPOSED MATERIAL	DESCRIPTION
	Cer	24	*Conocarpus erectus GREEN BUTTONTREE	12" O.A. HT., 5" C.T., 6" SPR, 2" CALIPER 45 GAL. FLORIDA GRADE #1
	Ces	9	*Conocarpus erectus 'sericeus' SILVER BUTTONTREE	12" O.A. HT., 6" C.T., 12" SPR. 45 GAL.
	Fau	1	Ficus aurea STRANGLER FIG	18" O.A. HT., 8" C.T., 12" SPR. F.G. - SPECIMEN TO BE COLLECTED
	Tgr.1	1	Tibouchina granulosa YESTERDAY, TODAY, TOMORROW	8" O.A. HT., 4" C.T., 8" SPR. 30 GAL.
PALMS				
SYMBOL		QUAN.	PROPOSED MATERIAL	DESCRIPTION
	Pel.1	21	Ptychosperma elegans ALEXANDER PALM	14" O.A. HT., 10" SPR. F.G.
	Pel.2	12	Ptychosperma elegans ALEXANDER PALM	20" O.A. HT., 10" SPR. F.G.
	Pel.3	12	Ptychosperma elegans ALEXANDER PALM	26" O.A. HT., 10" SPR. F.G.
SHRUBS, GROUNDCOVERS & ACCENTS				
SYMBOL		QUAN.	PROPOSED MATERIAL	DESCRIPTION
	Apo	12	Alcacia 'Portadora' ALOCASIA PORTADORA	24" O.C. 24" O.A. PLANTED HT. 7 GAL.
	Col	22	Colocasia esculenta 'Royal Hawaiian Black Coral' BLACK COLOCASIA	12" O.C. 3 GAL.
	Eli	292	*Ernodea littoralis GOLDEN BEACH CREEPER	12" O.C. 24" SPR 3 GAL.
	Fmi	422	Ficus microcarpa 'Green Island' GREEN ISLAND FIG	10" O.C. 3 GAL.
	Lmu	76	Liriodendron muscari LILY TURF	12" O.C. 1 GAL.
	Pli	556	Pilea microphylla ROCKWEED	12" O.C. 3 GAL.
	Tda	203	*Tripsacum dactyloides FAKAHATCHEE GRASS	24" O.A. HT. 3 GAL.
	Zte	203	Zoysia tenuifolia MASCARENE GRASS	8" O.C. 1 GAL.
MULCH				
BAGS	SQ. FT.		PROPOSED MATERIAL	DESCRIPTION
185	2,218		Florimulch	2" THICK 2 CU. FT. BAGS
* DENOTES NATIVE SPECIES				

* DENOTES NATIVE SPECIES



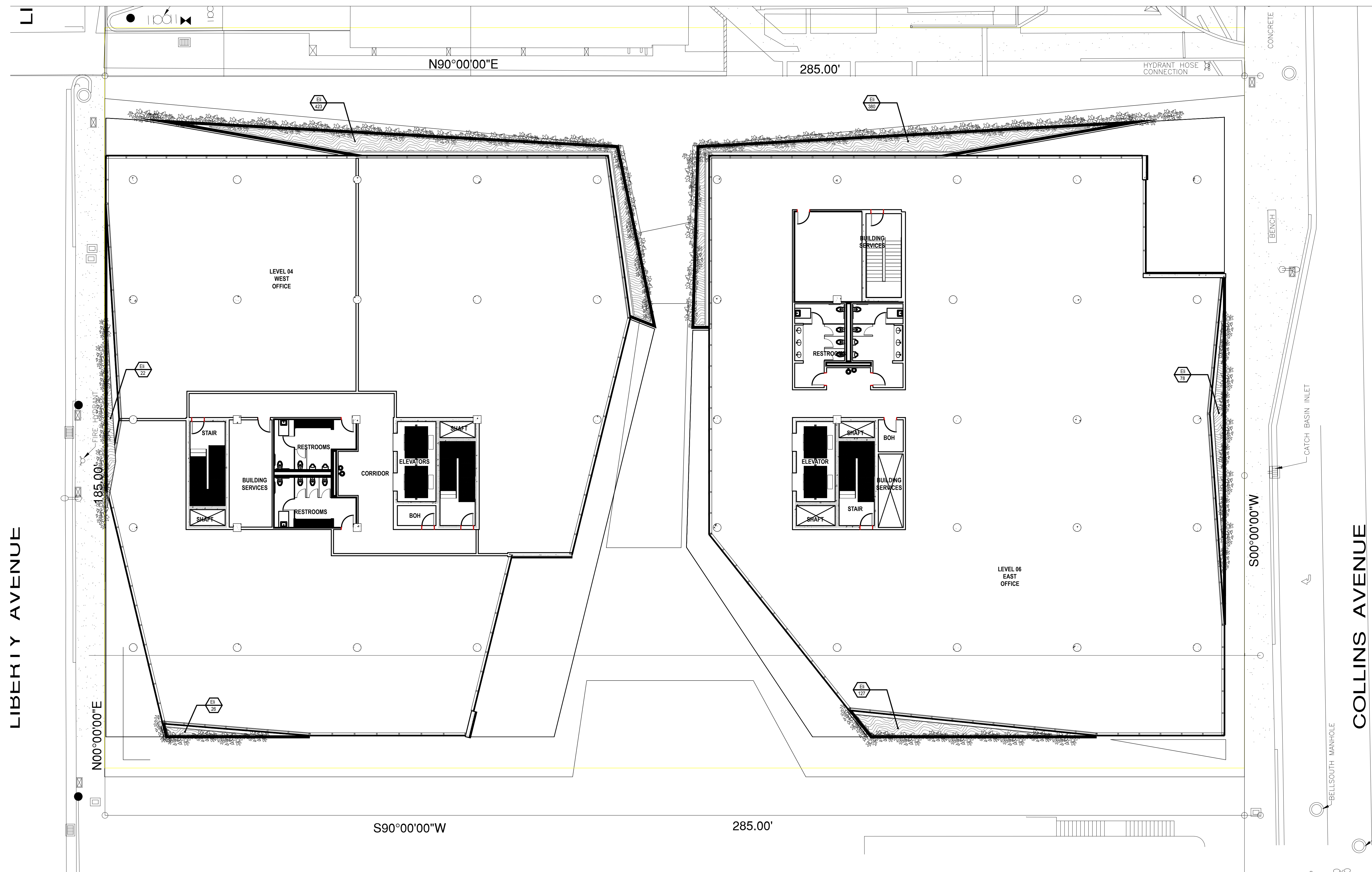
LANDSCAPE LIST SHEET L-500			
SHRUBS			
SYMBOL	QTY	PROPOSED MATERIAL	DESCRIPTION
	1,073	*Errodesa littoralis	12" O.C. 24" SPR
		GOLDEN BEACH CREEPER	3 GAL.

MULCH			
BAGS	SQ. FT.	PROPOSED MATERIAL	DESCRIPTION
90	1,073	Flormulch	2" THICK
			2 CU FT. BAGS

* DENOTES NATIVE SPECIES

LIBERTY AVENUE

COLLINS AVENUE



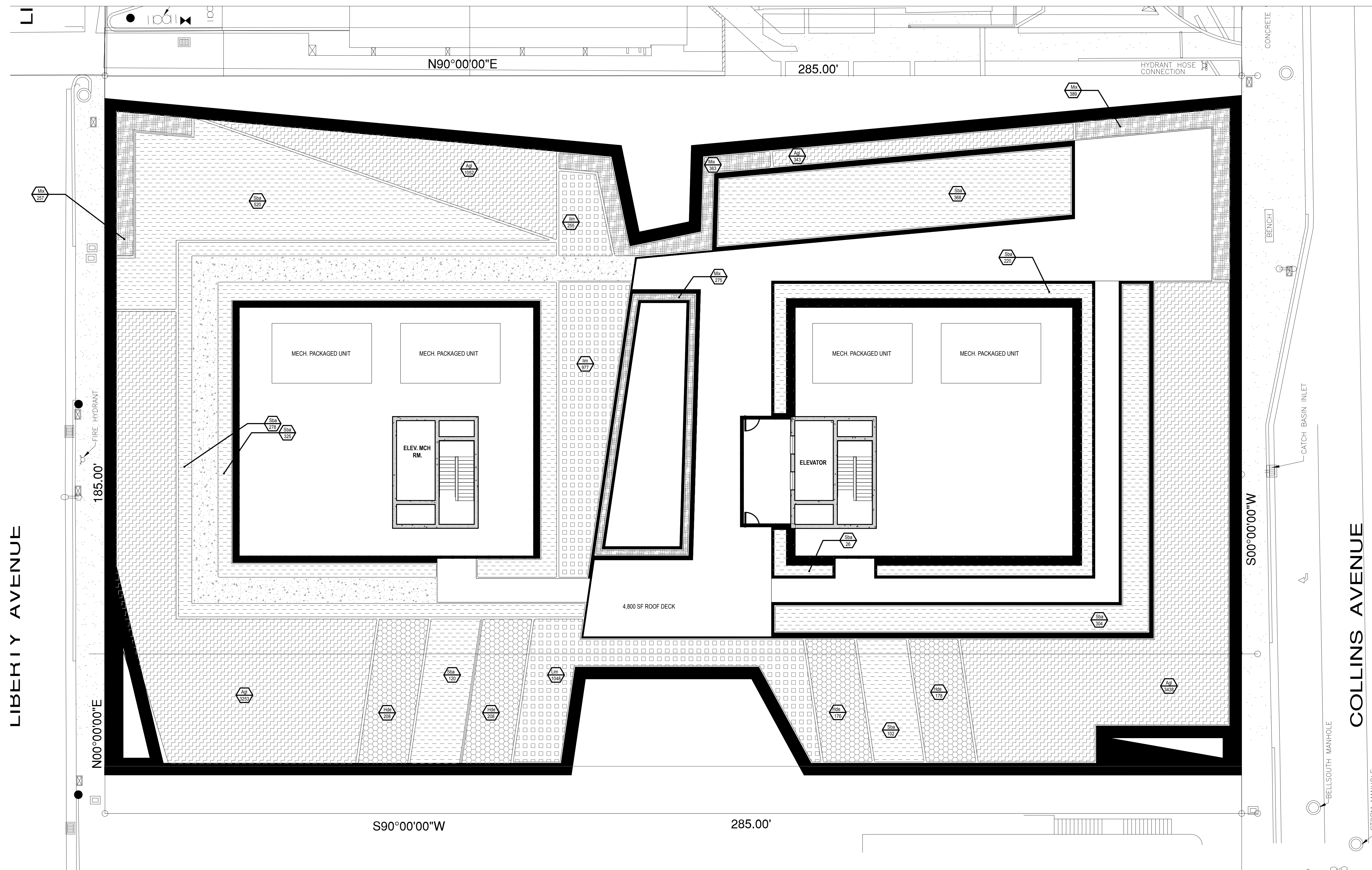
LANDSCAPE LIST SHEET L-600			
SHRUBS			
SYMBOL	QTY.	PROPOSED MATERIAL	DESCRIPTION
Eli	1,056	*Eriodendron littorale GOLDEN BEACH CREEPER	12" O.C. 24" SPR 3 GAL.

MULCH			
BAGS	SQ.FT.	PROPOSED MATERIAL	DESCRIPTION
88	1,056	FloraMulch	2" THICK 2 CU.FT. BAGS

* DENOTES NATIVE SPECIES

LIBERTY AVENUE

COLLINS AVENUE



LANDSCAPE LIST SHEET L-700			
SHRUBS & GROUNDCOVERS			
SYMBOL	QUAN	PROPOSED MATERIAL	DESCRIPTION
Agl	8,086	Arachis glabrata	12" O.C.
		PERENNIAL PEANUT	1 GAL.
lim	2,280	*Iva imbricata	12" O.C.
		BEACH ELDER	1 GAL.
		*Ipomoea ligularis	12" O.C.
		WHITE BEACH MORNING GLORY	1 GAL.
Mix	642	*Canavalia rosea	12" O.C.
		BEACH BEAN	1 GAL.
Sba	1,895	*Spartina bakeri	24 O.C. 24" O.A. HT.
		SAND CORN GRASS	3 GAL.
Hde	770	*Helianthus debilis	18" O.C.
		BEACH SUNFLOWER	1 GAL.

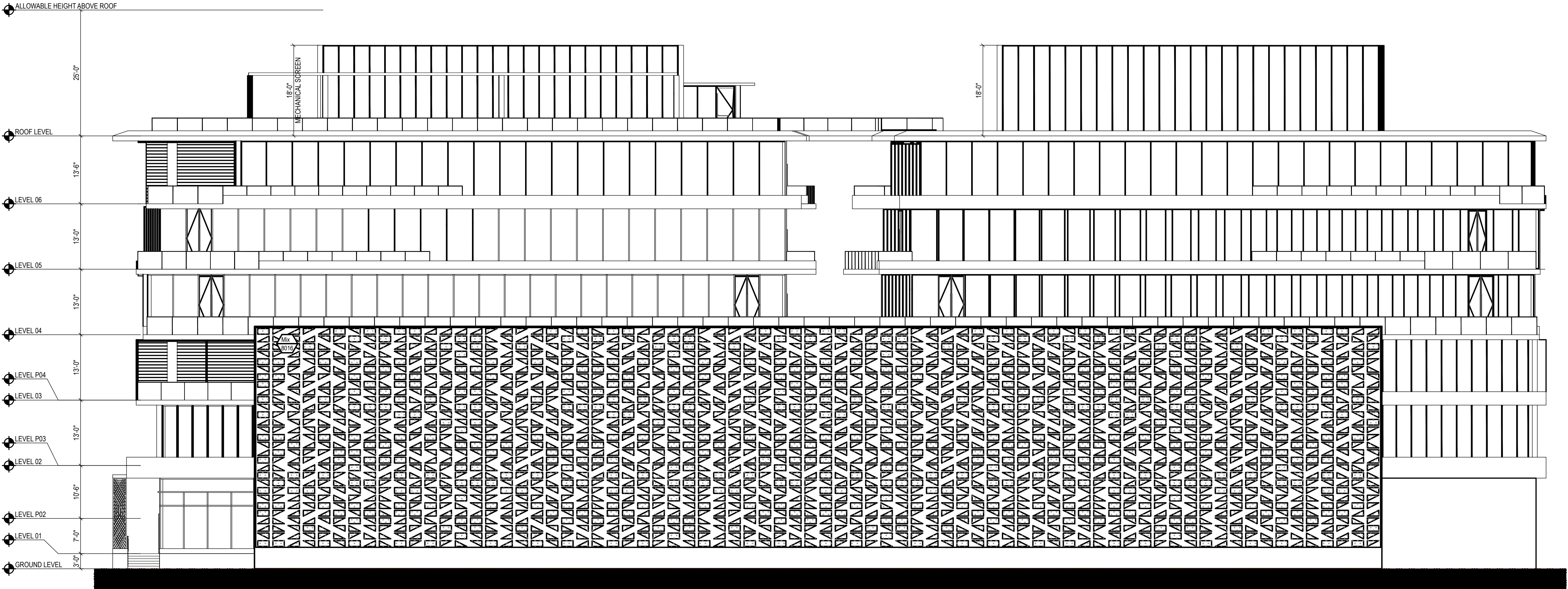
MULCH			
BAGS	SQ. FT.	PROPOSED MATERIAL	DESCRIPTION
1,747	20,960	Florimulch	2" THICK 2 CU. FT. BAGS

* DENOTES NATIVE SPECIES

LIBERTY AVENUE

COLLINS AVENUE

LANDSCAPE LIST SHEET L-701			
SHRUBS & GROUNDCOVERS			
SYMBOL		QUAN.	PROPOSED MATERIAL
	Mix	1,336	Anacardium occidentale
			PERENNIAL PEANUT
		1,336	*Eriosema littoralis
			GOLDEN BEACH CREEPER
		1,336	*Ilex imbricata
			BEACH ELDER
		1,336	*Ipomoea imperati
			WHITE BEACH MORNING GLORY
		1,336	*Canavalia rosea
			BEACH BEAN
		1,336	*Helianthus debilis
			BEACH SUNFLOWER



SCALE: 3/32" = 1'-0"

PLANTING NOTES: (See plant specification and details for additional standards)

-All plant material is to be Florida Number 1 or better pursuant to the Florida Department of Agriculture's Grades and Standards for Nursery Plants.

-All plants are to be top dressed with a minimum 3" layer of Melaleuca mulch, Eucalyptus mulch or equal.

-Planting plans shall take precedence over plant list in case of discrepancies.

-No changes are to be made without the prior consent of the Landscape Architect and Owner. Additions and or deletions to the plant material must be approved by the project engineer.

-Landscape Contractor is responsible for providing their own square footage takeoffs and field verification for 100% sod coverage for all areas specified.

- All landscape areas are to be provided with automatic sprinkler system which provide 100% coverage, and 50% overlap.

- All trees in lawn areas are to receive a 24" diameter mulched saucer at the base of the trunk.

- No mulch, fill or soil will be placed over the rootballs or within 4" of the trunks of the newly installed trees, and the trees will be installed at or slightly above the soil grade.

- All straps, poles and braces shall be removed from all of the installed trees and palms within the 1-year of planting.

- No changes are to be made without the prior consent of the Landscape Architect, owner, City Urban Forester and City Planning Department. Additions and or deletions to the plant material must be approved per the Project Engineer, City Urban Forester and City Planning Department.

- Maintenance on all planters that cannot be serviced within the building will be maintained twice a year as needed. The usage of Golden Creeper was designated for these planters due to its durability and low maintenance.

- Trees are to be planted within parking islands after soil is brought up to grade. Deeply set root balls are not acceptable.

- Planting soil for topsoil and backfill shall be 50/50 mix, nematode free. Planting soil for annual beds to be comprised of 50% Canadian peat moss, 25% salt free coarse sand and 25% Aerolite.

- Tree and shrub pits will be supplemented with "Agriform Pells", 21 gram size with a 20-10-5 analysis, or substitute application accepted by Landscape Architect. Deliver in manufacturer's standard containers showing weight, analysis and name of manufacturer.

- Tree protection fences shall be constructed prior to any construction activity including grubbing for all trees/palms to remain or be relocated. The fences should be of sturdy construction, 4x4 posts with wire mesh. Fences must be intact until the project is completed. They should not be removed or dropped for any reason without authorization from the city Urban Forester. No activity or disturbance should occur within the fenced areas, including vehicle use, storage of materials, dumping of liquids or materials, grade changes, grubbing and mechanical trenching for irrigation, electrical and lighting, etc.

GENERAL NOTES




-The Landscape Contractor is to locate and verify all underground and overhead utilities prior to beginning work. Contact proper utility companies and / or General Contractor prior to digging for field verification. The Owner and the Landscape Architect shall not be responsible for any damages to utility or irrigation lines (see Roadway Plans for more utility notes).

-Landscape Contractor is to verify all current drawings and check for discrepancies and bring to the attention of the Landscape Architect prior to commencing with the work.

-All unattended and unplanted tree pits are to be properly barricaded and flagged during installation.

-All planting plans are issued as directives for site layout. Any deviations, site changes, etcetera are to be brought to the attention of the Landscape Architect for clarification prior to installation.

OVERALL LANDSCAPE LIST			
TREES			
SYMBOL		QUAN.	PROPOSED MATERIAL DESCRIPTION
	Cdi	8	"Coccoloba diversifolia PIGEON PLUM TREE
	Cer	38	"Conocarpus erectus GREEN BUTTONWOOD TREE
	Ces	9	"Conocarpus erectus 'senecus' SILVER BUTTONWOOD
	Cgr	10	"Caesalpinia granadillo BRIDALVEIL TREE
	Fau	3	Ficus aurea STRANGLER FIG
	Pel.1	21	Ptychosperma elegans ALEXANDER PALM
	Pel.2	12	Ptychosperma elegans ALEXANDER PALM
	Pel.3	12	Ptychosperma elegans ALEXANDER PALM
	Pob	2	Plumeria obtusa 'Singapore' WHITE FRANGIPANI
	Sma	6	"Swietenia mahagoni MAHOGANY TREE
	Tgr.1	1	Tibouchina granulosa YESTERDAY, TODAY, TOMORROW

PALMS			
SYMBOL		QUAN.	PROPOSED MATERIAL DESCRIPTION
	Wro.1	8	Washingtonia robusta WASHINGTON PALM
	Wro.2	8	Washingtonia robusta WASHINGTON PALM
	Wro.3	6	Washingtonia robusta WASHINGTON PALM

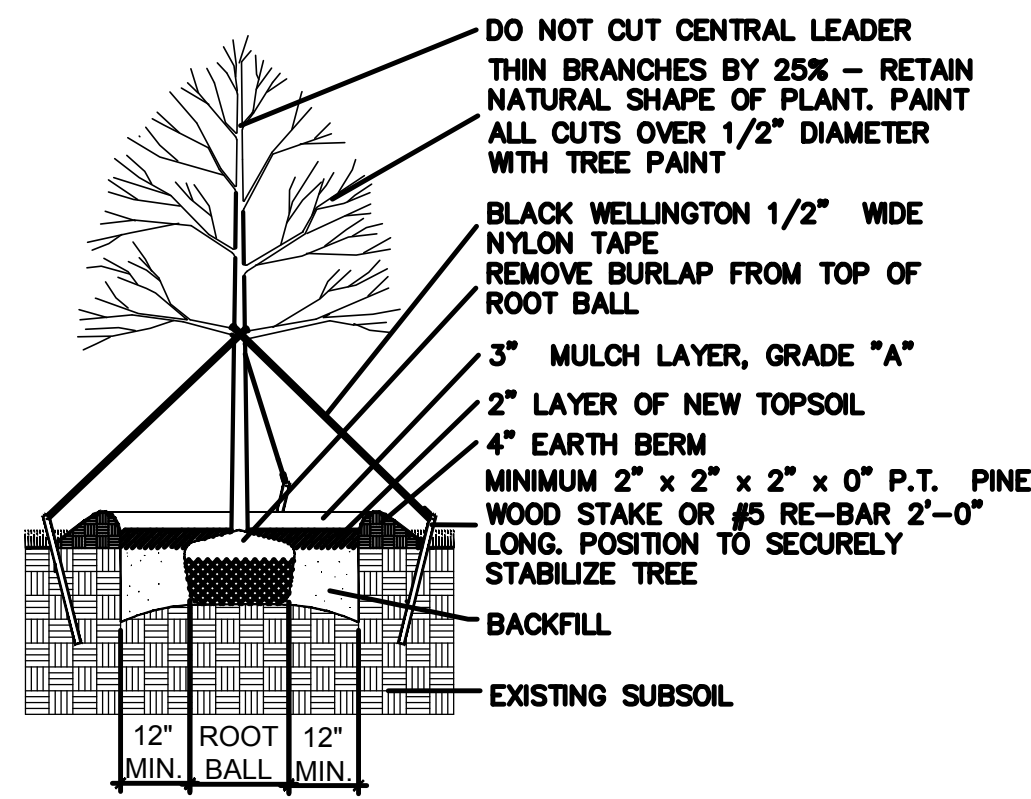
SHRUBS, GROUNDCOVERS & ACCENTS			
SYMBOL		QUAN.	PROPOSED MATERIAL DESCRIPTION
	Abc	10	Aechmea 'Black Chantinii' Black Chantinii Bromeliad
	Agl	9,422	Arachis glabrata PERENNIAL PEANUT
	Apo	74	"Alcacia 'Portadora' ALOCASIA PORTADORA
	Bol	13	Bambusa oldhamii OLDHAMII BAMBOO
	Cer.1	106	"Conocarpus erectus GREEN BUTTONWOOD
	Col	136	Colocasia esculenta 'Royal Hawaiian Black Coral' BLACK COLOCASIA
	Eli	6,034	"Ernodea littoralis GOLDEN BEACH CREEPER
	Fmi	735	Ficus microcarpa GREEN ISLAND FICUS
	Hde	2,106	"Helianthus debilis BEACH SUNFLOWER
	Iim	3,616	"Iva imbricata BEACH ELDER
	Lmu	383	Liriope muscari LILY TURF
	Mix	1,978	"Ipomoea imperali WHITE BEACH MORNING GLORY
	Pli	2,255	"Canavalia rosea BEACH BEAN
	Sba	1,895	Pilea microphylla ROCKWEED
	Tas	1,768	"Spartina bakeri SAND CORDGRASS
	Tda	203	Trachelospermum asiaticum 'Minima' ASIATIC JASMINE
	Tgr	86	"Tripsacum dactyloides FAKAHATCHEE GRASS
	Van	100	Thunbergia grandiflora 'alba' SKY VINE
	Zte	203	Vanda spp. VANDA ORCHID
			Zoysia tenuifolia MASCARENE GRASS

MULCH			
	BAGS	SQ.FT.	PROPOSED MATERIAL DESCRIPTION
	2,552	30,594	Florimulch 2" THICK
	25	444	Peat Moss 1" THICK
			APPLIED UNDERNEATH THE JASMINE MINIMA

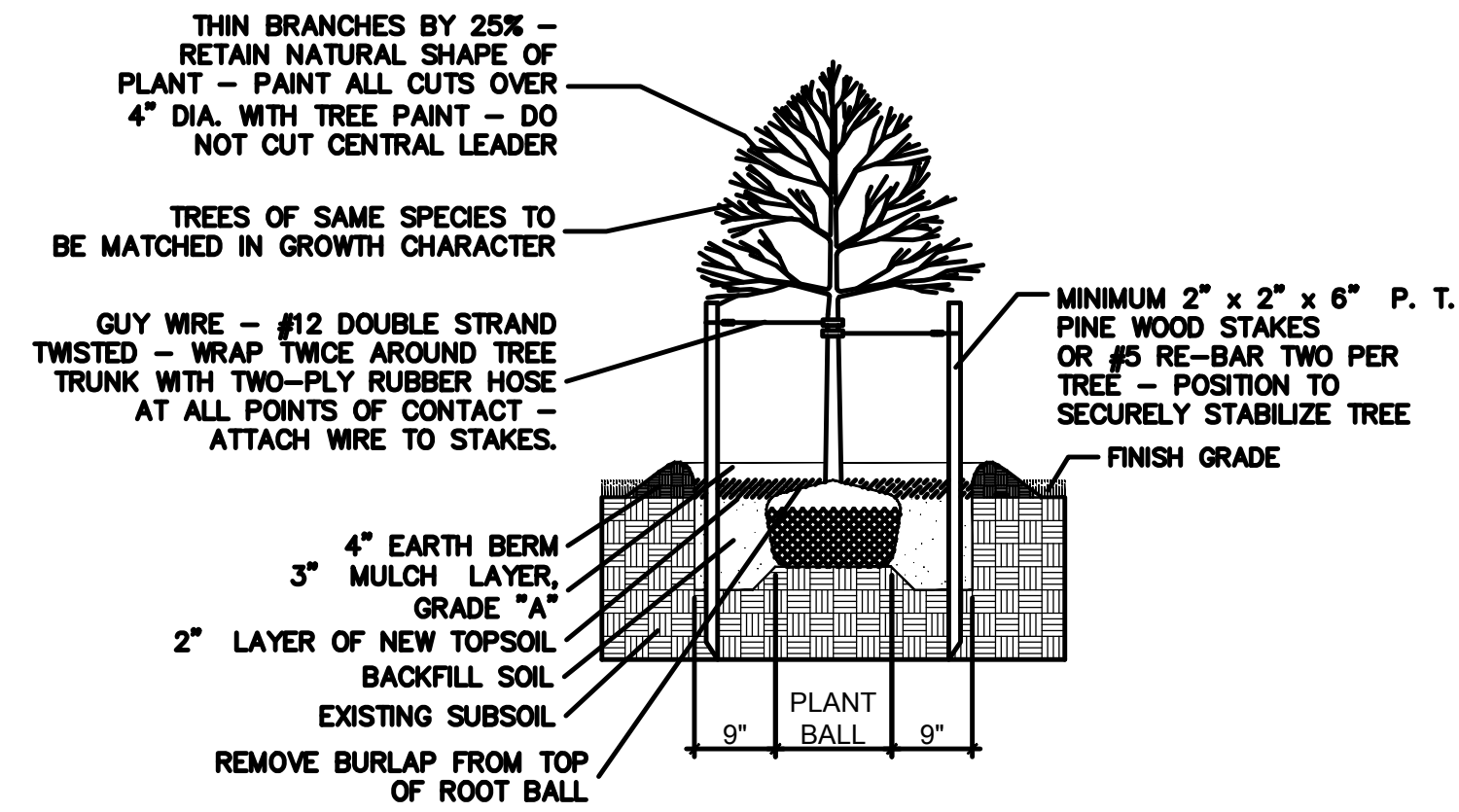
* DENOTES NATIVE SPECIES

LANDSCAPE LEGEND Information Required to be Permanently Affixed to Plan Following City of Miami Beach Landscape Code			
Zoning District:	CD-3 (Commercial High Intensity)	Net Lot Area	1.20 acres 52,685 s.f.
PERVIOUS AREA			
Square Feet of pervious space at grade level: 3,788 sq ft. 7% of total site.			
Square Feet of pervious space above grade: 27,250 sq ft. 52% of total site.			
TREES			
A. No. trees required per s.f.		REQUIRED	PROVIDED
Less existing number of trees meeting minimum requirements			
22 Trees for each acre		22	22
1 Trees for Additional 1,000 sq ft.		9	37
18 Street trees. 1 Tree per 20 Linear Feet		18	18
TOTAL TREES		49	77
B. % Natives Required: No. trees provided x 30% =		15	53
C. Diversity of required tree species =		7	8
C. % Salt/Drought Tolerant Required: No. Trees provided x 50% =		25	53
SHRUBS			
A. No. trees required x 12 = No. of shrubs allowed		588	25,085
B. No. shrubs allowed x 50% = No. of native shrubs required		294	11,236
C. % Salt/Drought Tolerant Required: No. shrubs provided x 50% =		294	11,236
SEE OVERALL LANDSCAPE LIST			

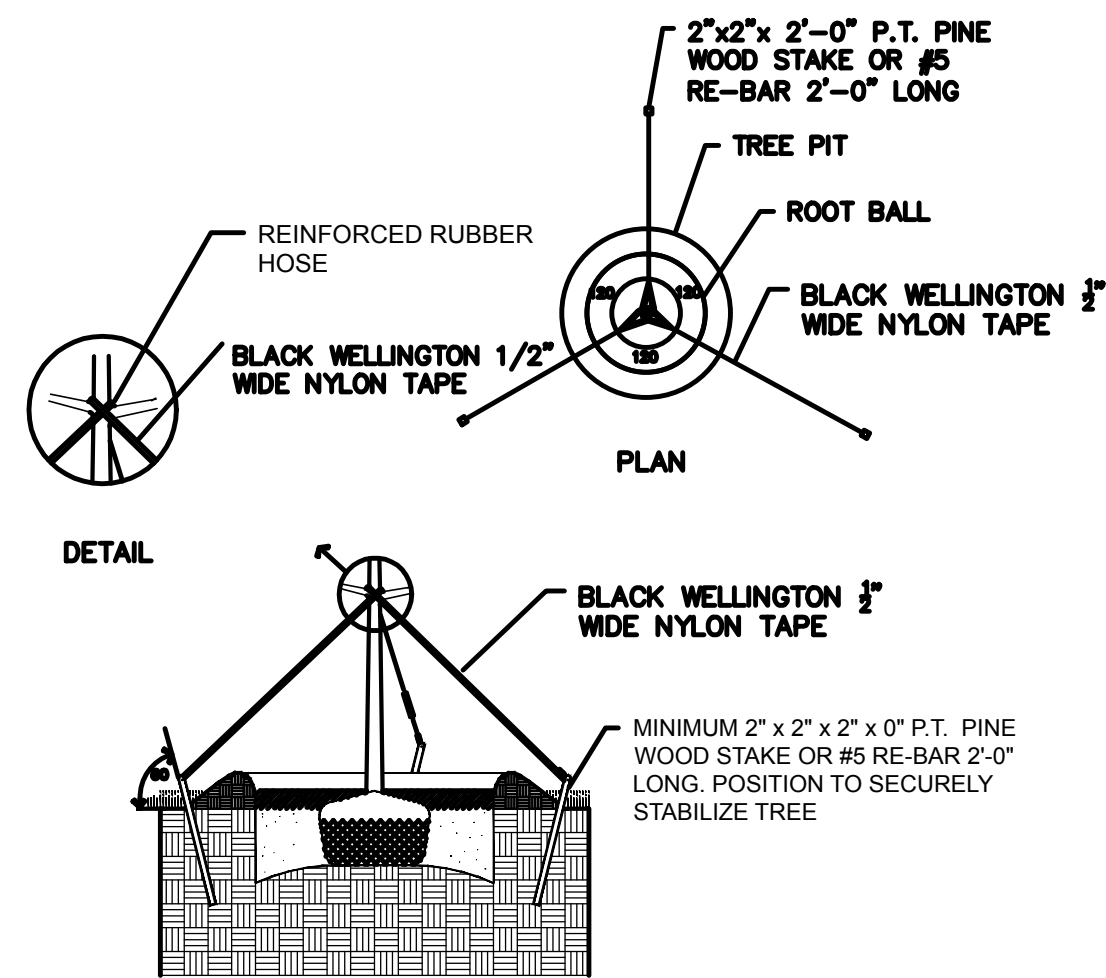




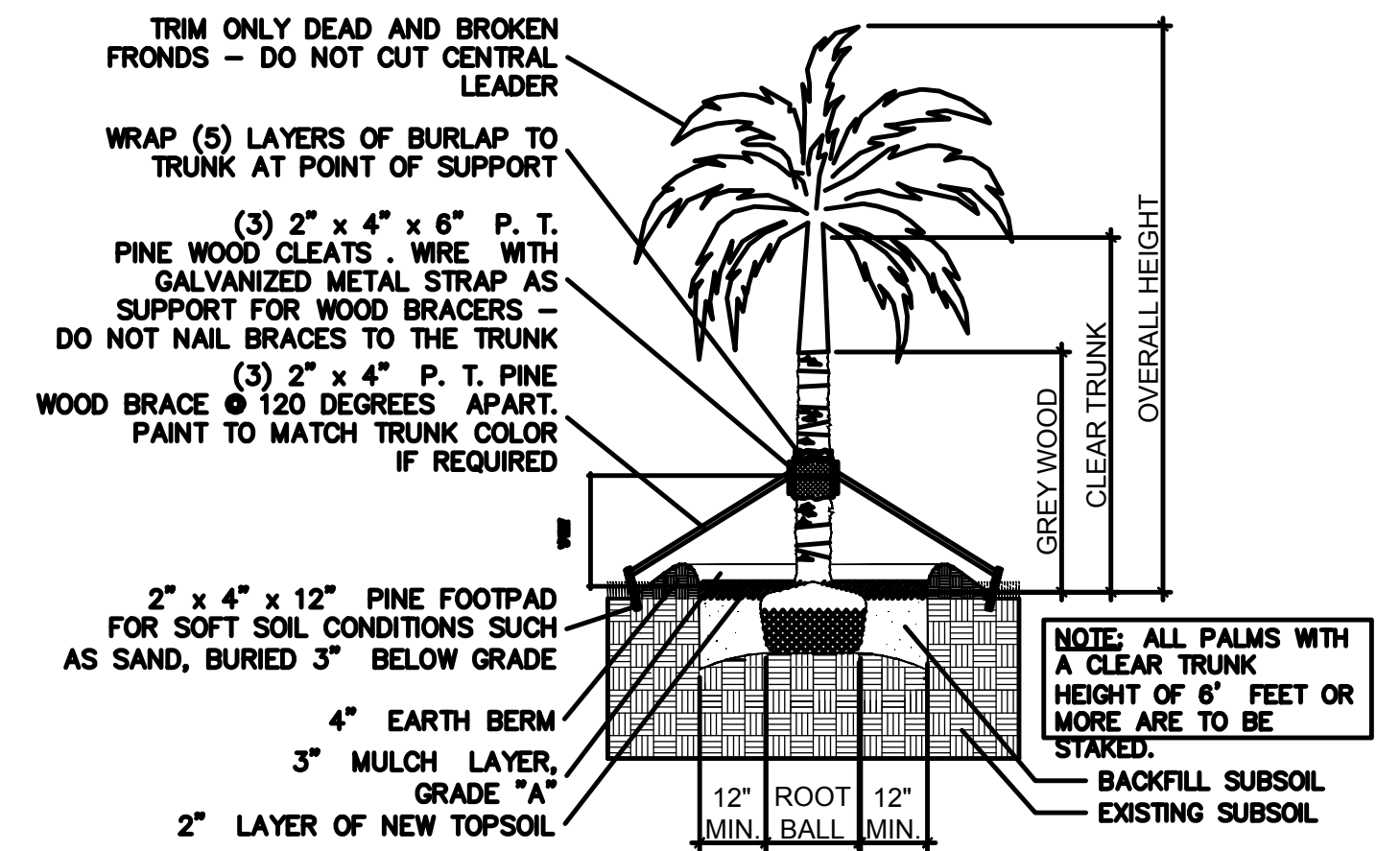
LARGE TREE PLANTING DETAIL



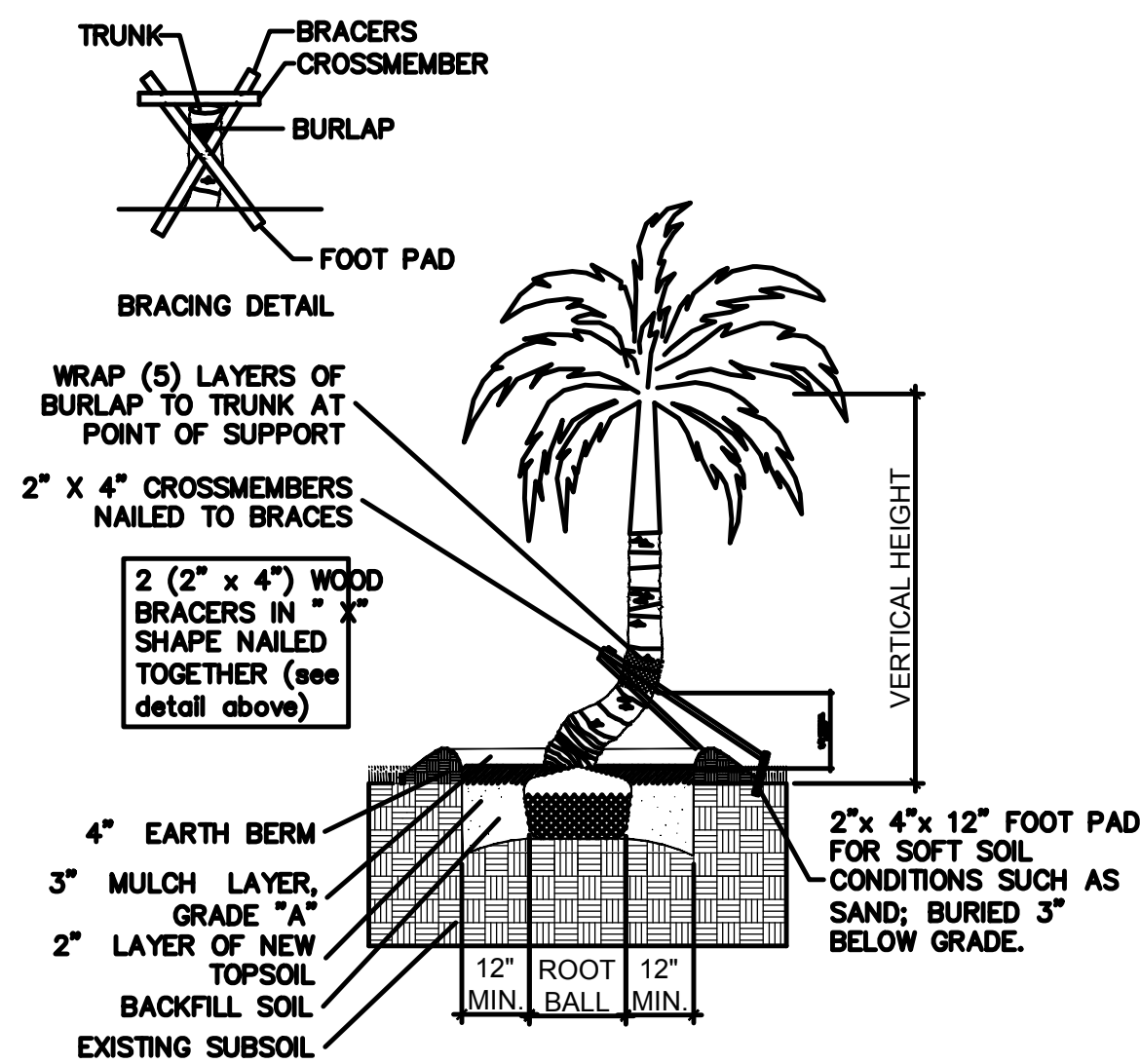
SMALL TREE PLANTING DETAIL



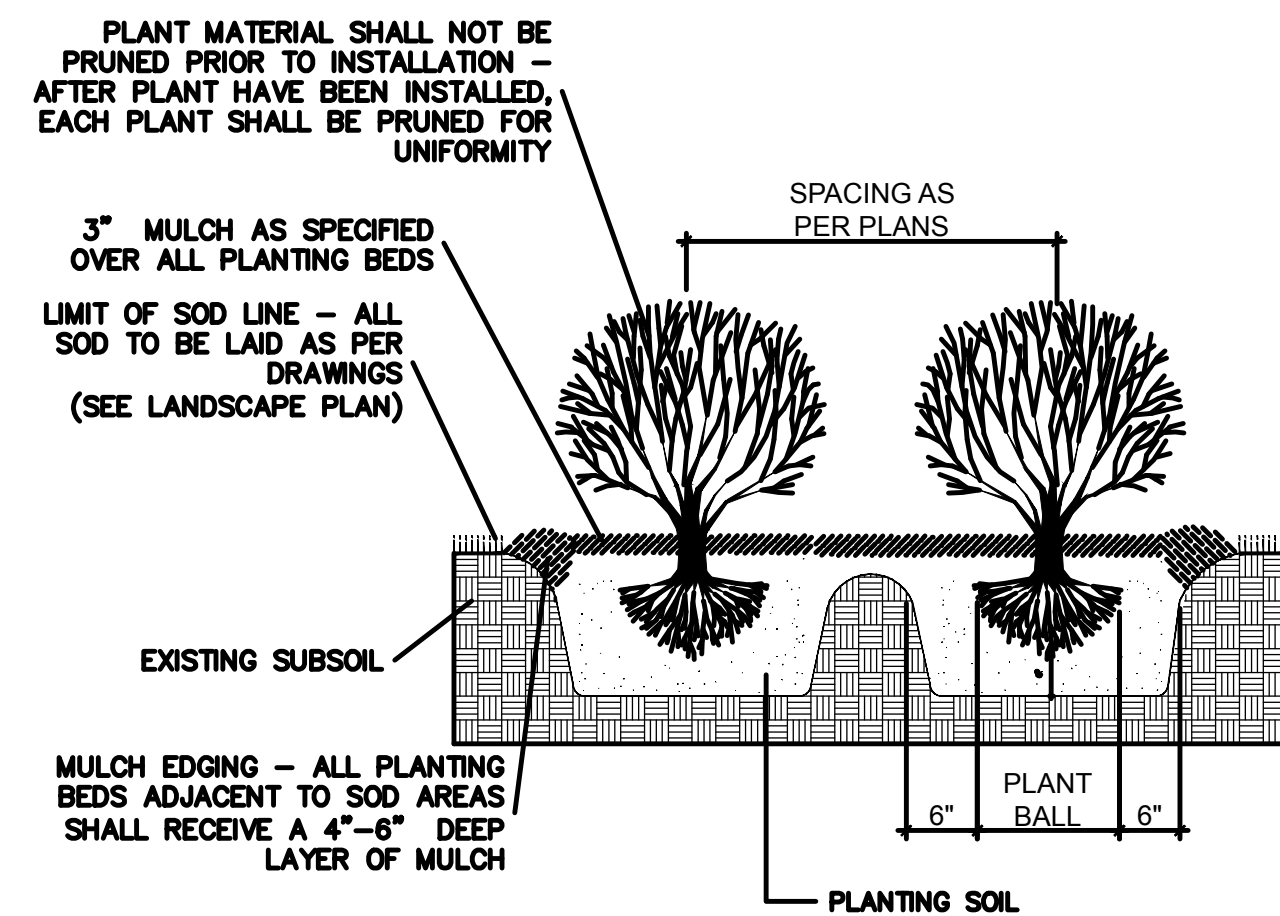
TYPICAL TREE GUYING DETAIL



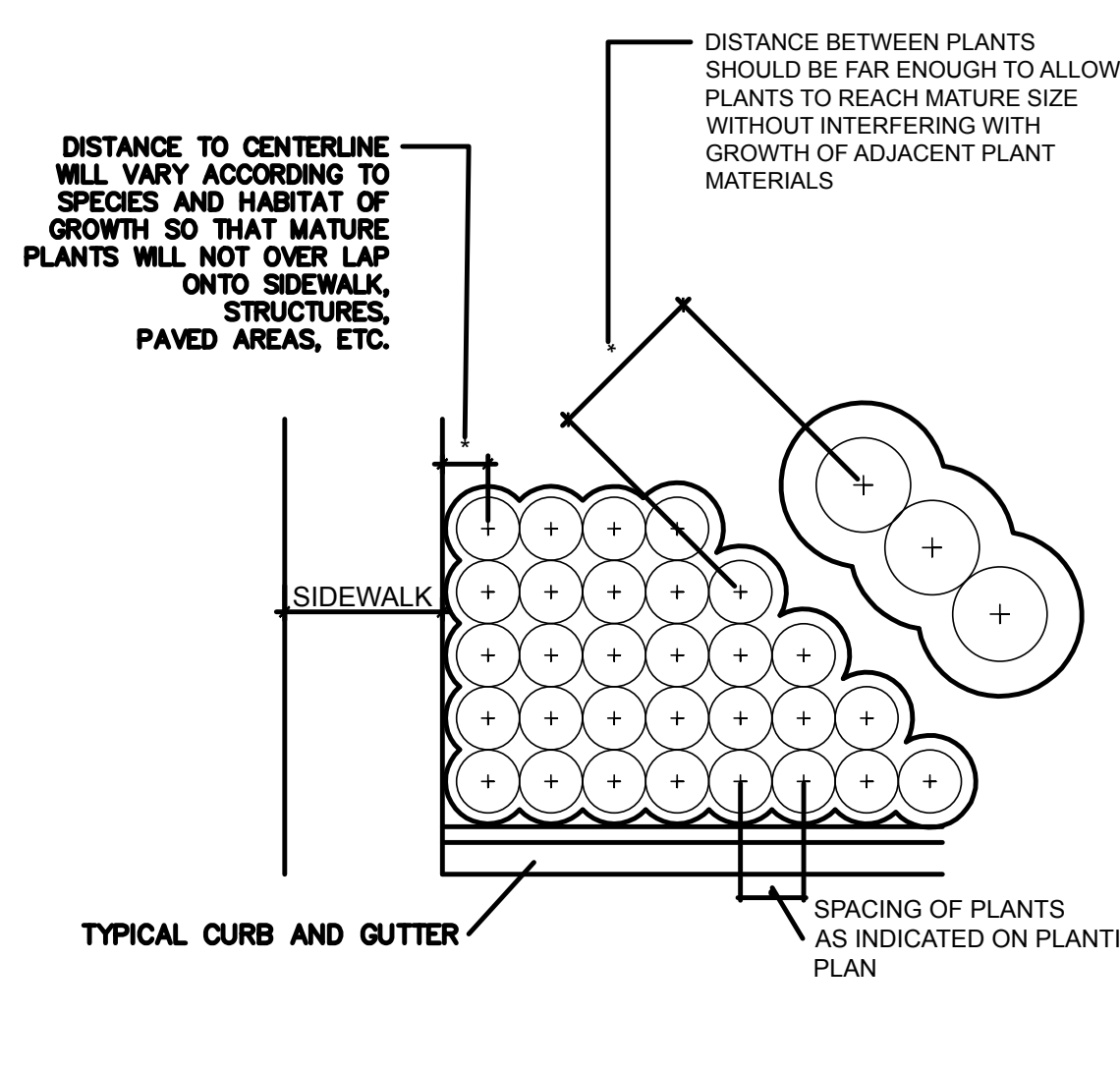
STRAIGHT TRUNK PALM PLANTING DETAIL



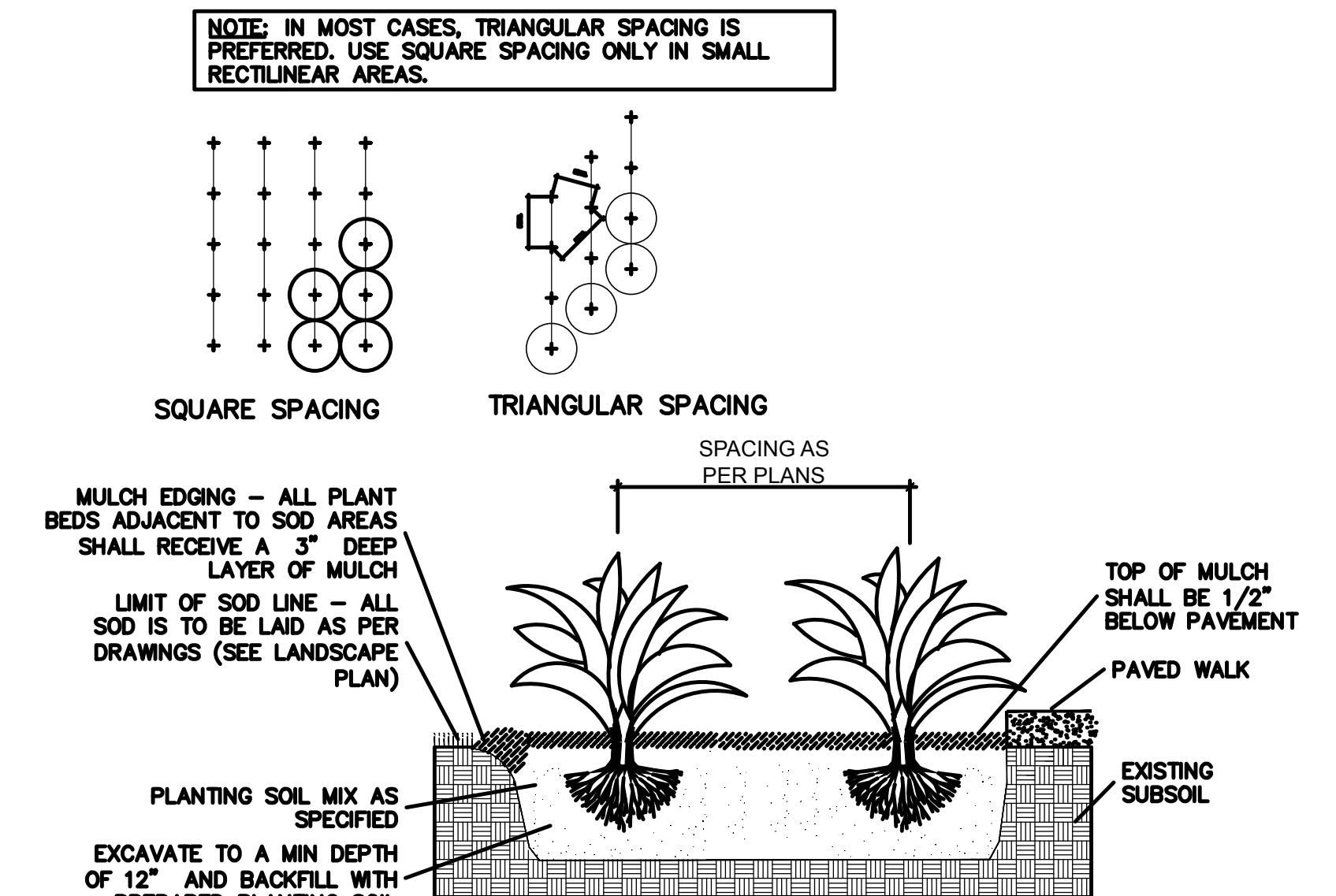
CURVED TRUNK PALM PLANTING DETAIL



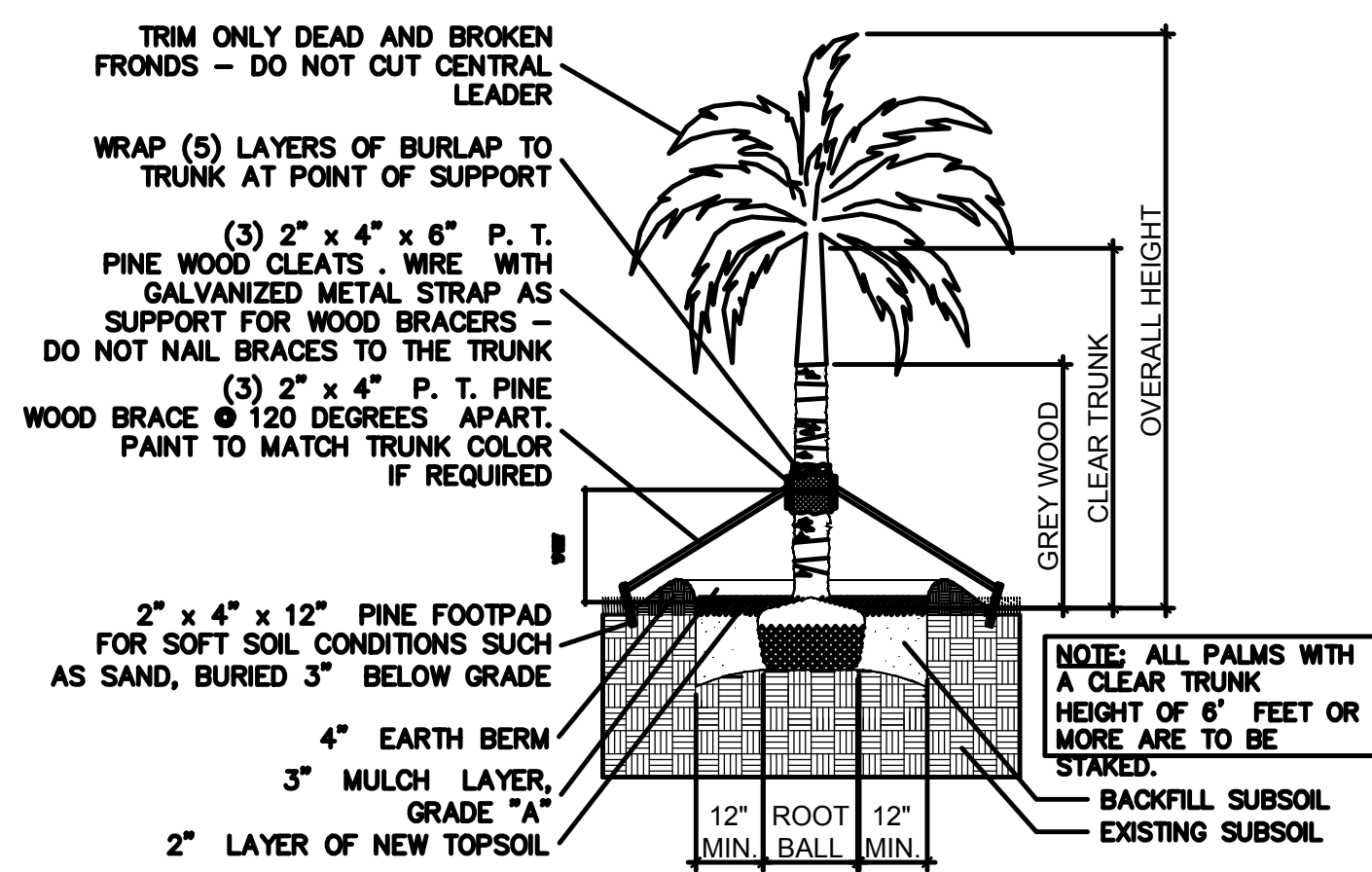
TYPICAL SHRUB PLANTING DETAIL



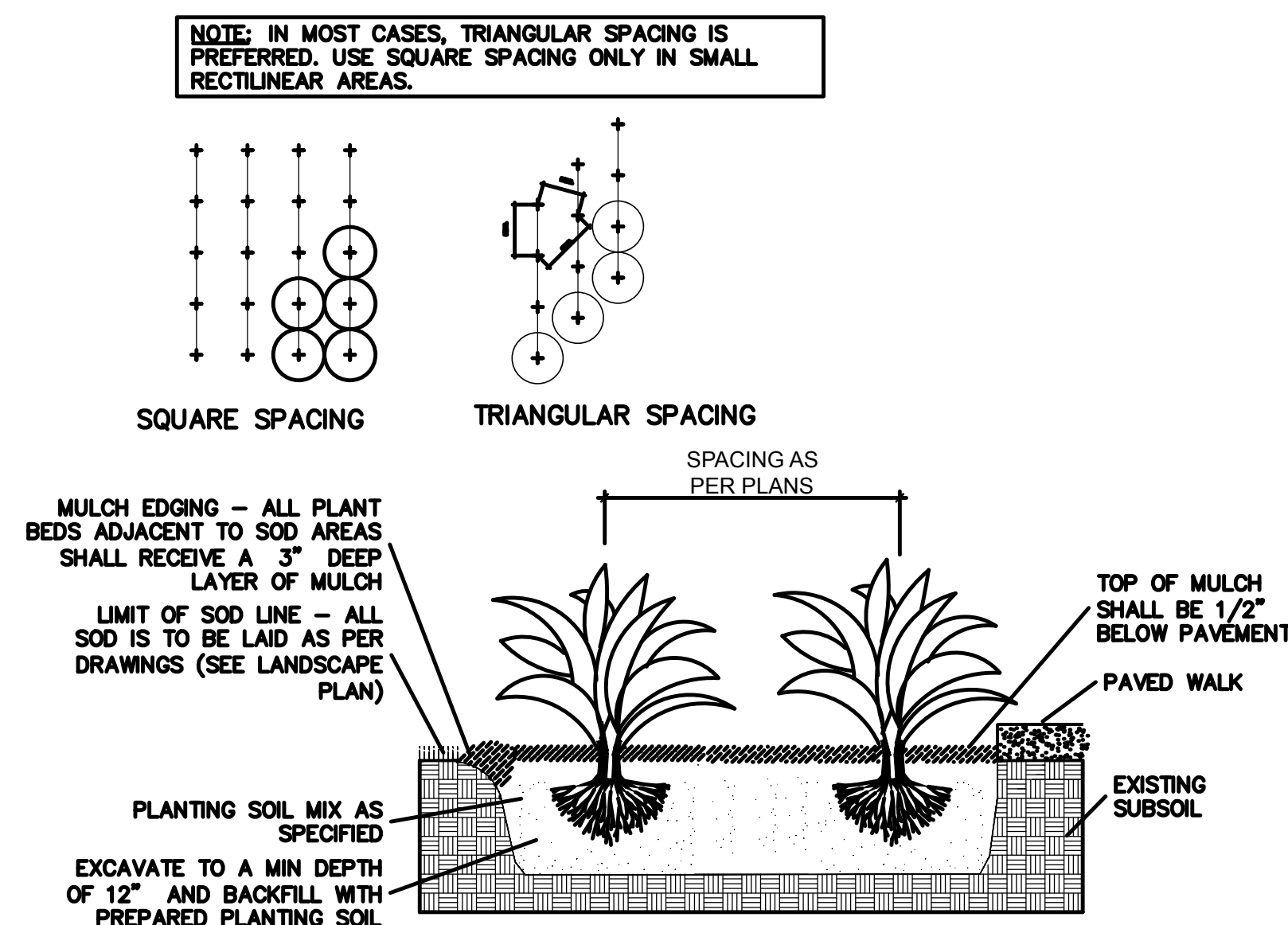
TYPICAL CONTAINER SPACING DETAIL



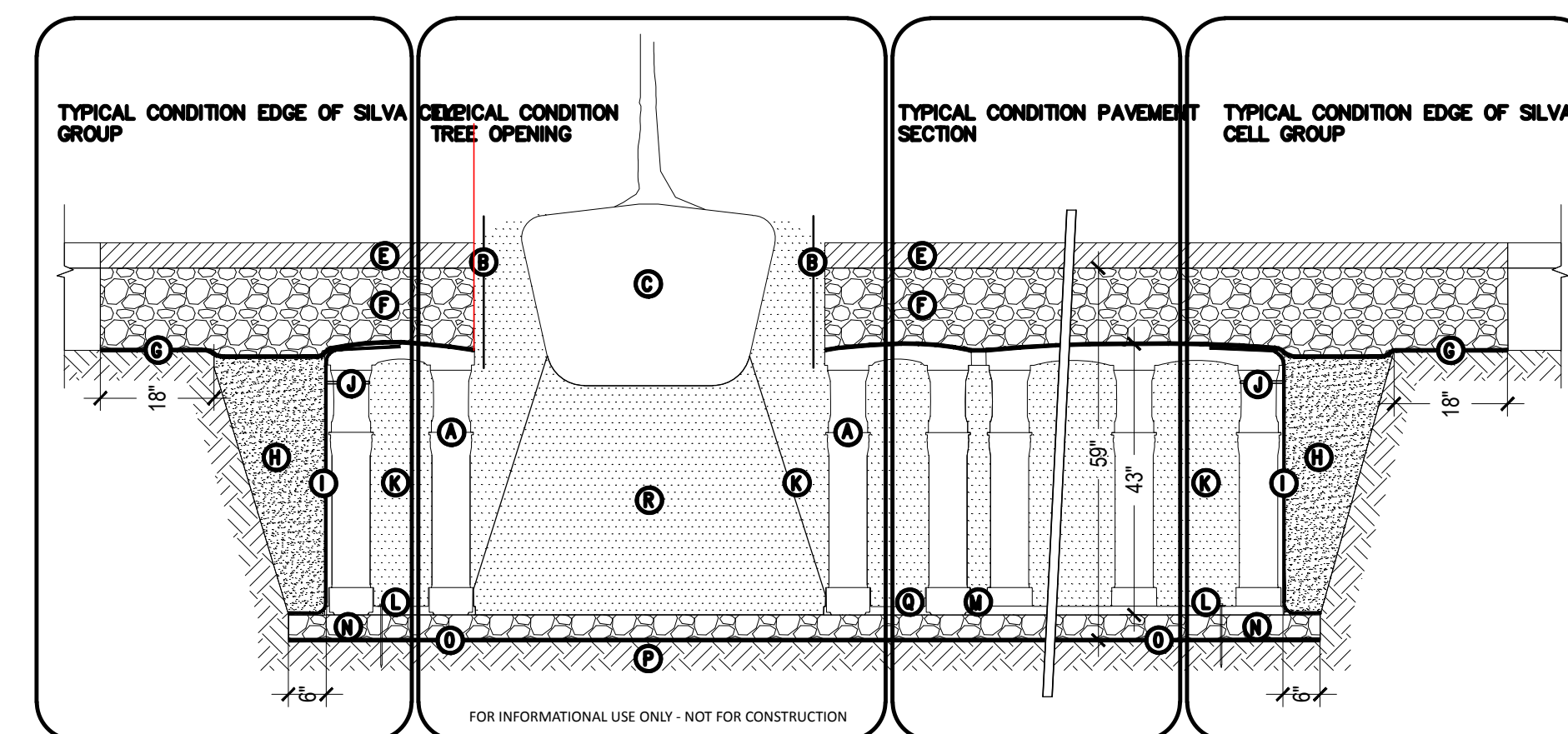
TYPICAL GROUNDCOVER PLANTING DETAIL



STRAIGHT TRUNK PALM PLANTING DETAIL



TYPICAL GROUNDCOVER PLANTING DETAIL

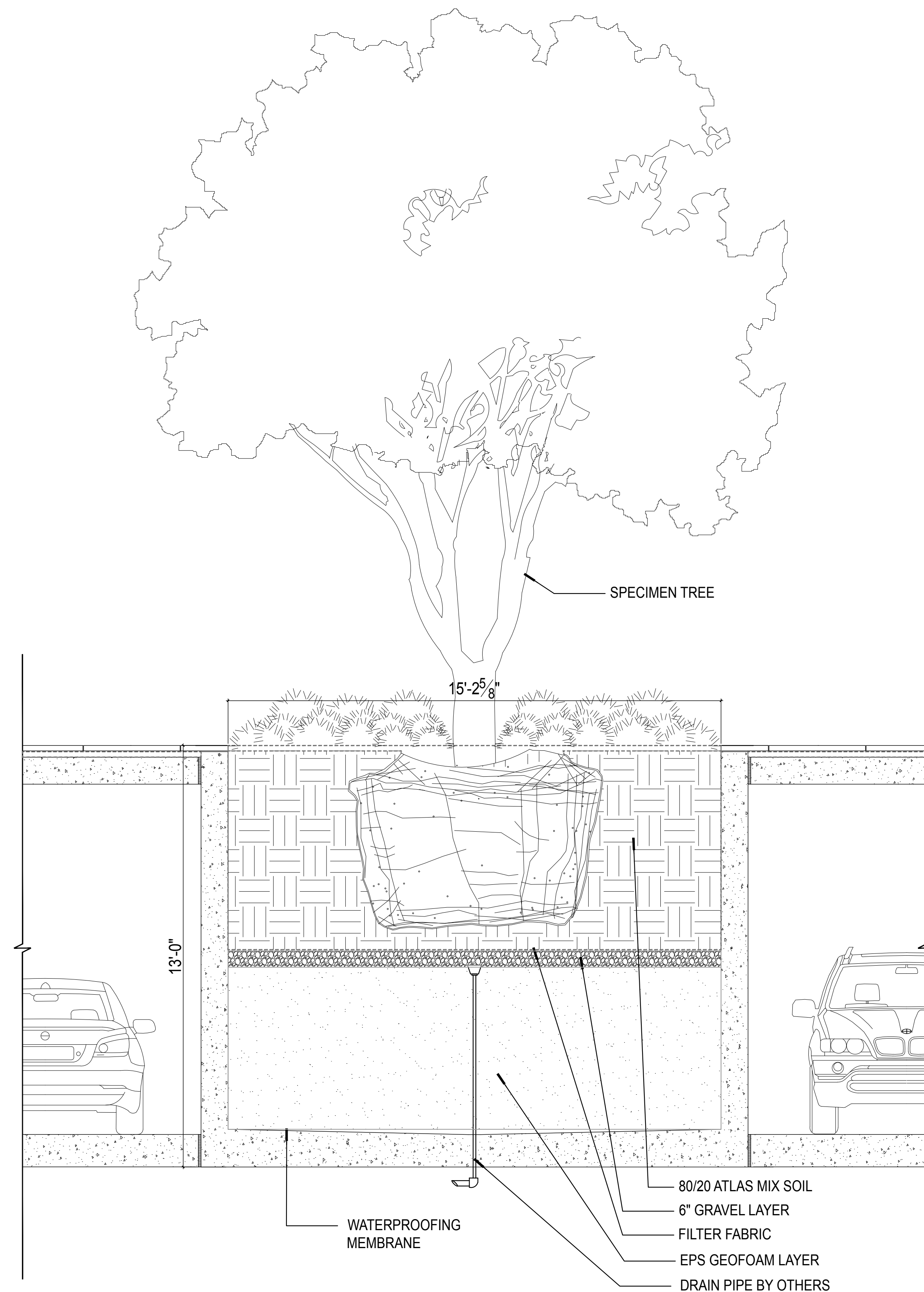


TYPICAL SILVA CELLS DETAIL

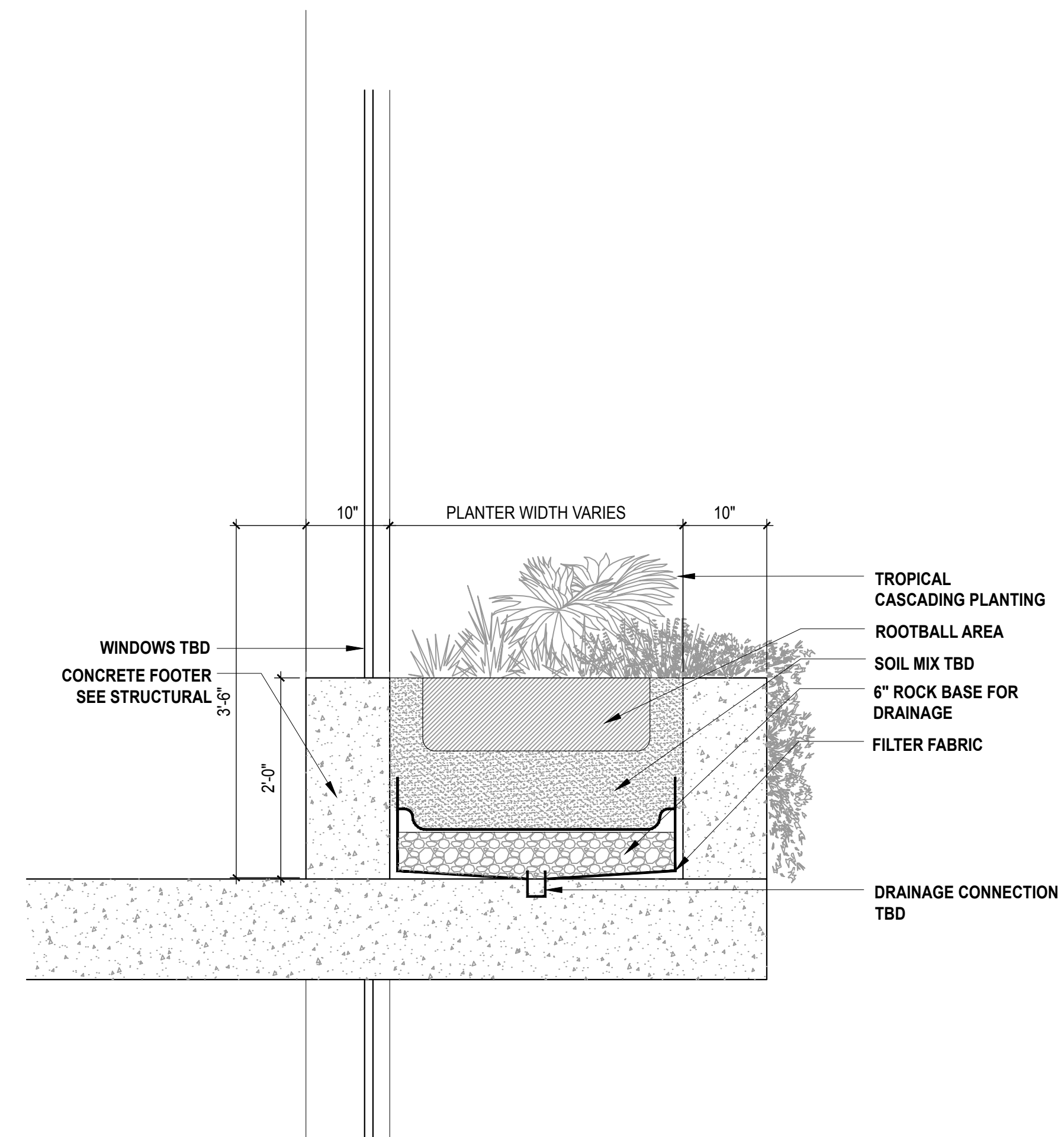
- KEY PLAN**
- ① SILVA CELL SYSTEM (DECK, BASE, AND POSTS)
 - ② DEEPROOT UB24-2 ROOT BARRIER. INSTALL DIRECTLY ADJACENT TO CONCRETE EDGE RESTRAINT
 - ③ TREE ROOT PACKAGE, SIZE VARIES
 - ④ PAVERS OR ASPHALT, PER PROJECT
 - ⑤ 12" MIN AGGREGATE BASE COURSE
 - ⑥ GEOTEXTILE 18" MIN OVERLAP PAST EXCAVATION
 - ⑦ BACKFILL, PER PROJECT SPECIFICATIONS
 - ⑧ GEOTEXTILE TO LINE PERIMETER OF SYSTEM WITH 6" TOE (OUTWARD FROM BASE) AND 12" EXCESS (OVER TOP OF DECK)
 - ⑨ CABLE TIE, ATTACHING GEOTEXTILE TO SILVA CELL AT BASE OF UPPER LEG FLARE
 - ⑩ PLANTING SOIL, PER PROJECT SPECIFICATIONS. COMPACTED TO 70-80% PROCTOR
 - ⑪ PIN, PER SILVA CELL SPECIFICATIONS
 - ⑫ 1" TO 4" SPACING BETWEEN SILVA CELLS AT BASE
 - ⑬ 4" MIN AGGREGATE SUB BASE, COMPACTED TO 95% PROCTOR
 - ⑭ GEOTEXTILE FABRIC, PLACED BELOW AGGREGATE SUB BASE
 - ⑮ SUBGRADE, COMPACTED TO 95% PROCTOR
 - ⑯ SILVA CELL BASE SLOPE, 7% MAX
 - ⑰ PLANTING SOIL BELOW TREE ROOT PACKAGE, COMPACTED TO 85-90% PROCTOR
- NOTES**
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS
 2. DO NOT SCALE DRAWINGS
 3. PROVIDE SUPPLEMENTAL IRRIGATION FOR SEASONAL DROUGHT SUPPORT OF TREES & SOIL

SCALE: 3/32" = 1'-0"





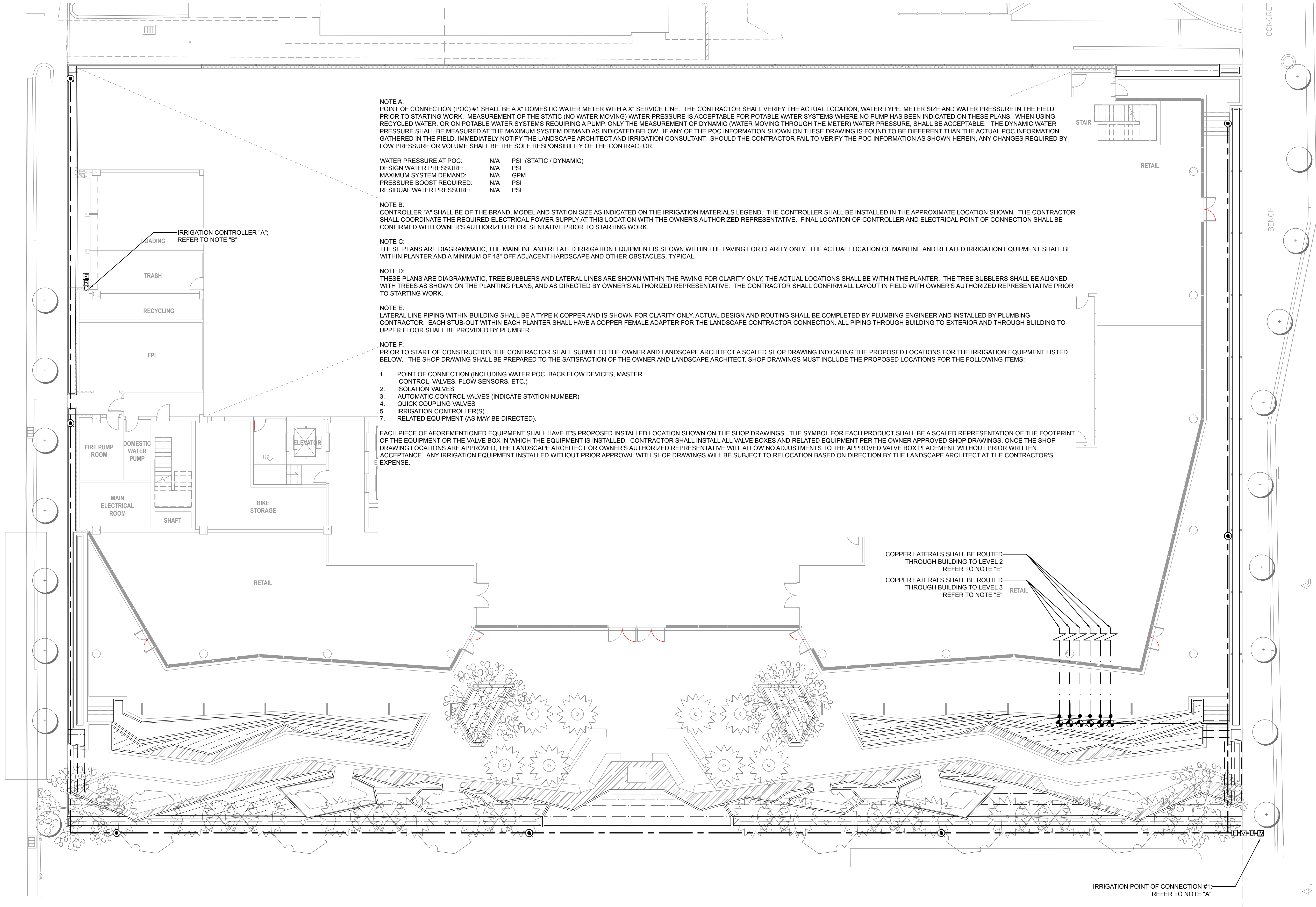
TREE PIT CROSS SECTION
SCALE: 1/2" = 1' 0"



CASCADING PLANTER CROSS SECTION TYP.
SCALE: 1" = 1' 0"



LIBERTY AVENUE



NOTE A:
POINT OF CONNECTION (POC) #1 SHALL BE A X" DOMESTIC WATER METER WITH A X" SERVICE LINE. THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION, WATER TYPE, METER SIZE AND WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK. MEASUREMENT OF THE STATIC (NO WATER MOVING) WATER PRESSURE IS ACCEPTABLE FOR POTABLE WATER SYSTEMS WHERE NO PUMP HAS BEEN INDICATED ON THESE PLANS. WHEN USING RECYCLED WATER, OR ON POTABLE WATER SYSTEMS REQUIRING A PUMP, ONLY THE MEASUREMENT OF DYNAMIC (WATER MOVING THROUGH THE METER) WATER PRESSURE, SHALL BE ACCEPTABLE. THE DYNAMIC WATER PRESSURE SHALL BE MEASURED AT THE MAXIMUM SYSTEM DEMAND AS INDICATED BELOW. IF ANY OF THE POC INFORMATION SHOWN ON THESE DRAWING IS FOUND TO BE DIFFERENT THAN THE ACTUAL POC INFORMATION GATHERED IN THE FIELD, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT. SHOULD THE CONTRACTOR FAIL TO VERIFY THE POC INFORMATION AS SHOWN HEREIN, ANY CHANGES REQUIRED BY LOW PRESSURE OR VOLUME SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

WATER PRESSURE AT POC:	N/A	PSI (STATIC / DYNAMIC)
DESIGN WATER PRESSURE:	N/A	PSI
MAXIMUM SYSTEM DEMAND:	N/A	GPM
PRESSURE BOOST REQUIRED:	N/A	PSI
RESIDUAL WATER PRESSURE:	N/A	PSI

NOTE B:
CONTROLLER 'A' SHALL BE OF THE BRAND, MODEL AND STATION SIZE AS INDICATED ON THE IRRIGATION MATERIALS LEGEND. THE CONTROLLER SHALL BE INSTALLED IN THE APPROXIMATE LOCATION SHOWN. THE CONTRACTOR SHALL COORDINATE THE REQUIRED ELECTRICAL POWER SUPPLY AT THIS LOCATION WITH THE OWNER'S AUTHORIZED REPRESENTATIVE. FINAL LOCATION OF CONTROLLER AND ELECTRICAL POINT OF CONNECTION SHALL BE CONFIRMED WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE C:
THESE PLANS ARE DIAGRAMMATIC, THE MAINLINE AND RELATED IRRIGATION EQUIPMENT IS SHOWN WITHIN THE PAVING FOR CLARITY ONLY. THE ACTUAL LOCATION OF MAINLINE AND RELATED IRRIGATION EQUIPMENT SHALL BE WITHIN PLANTER AND A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER OBSTACLES, TYPICAL.

NOTE D:
THESE PLANS ARE DIAGRAMMATIC, TREE BUBBLERS AND LATERAL LINES ARE SHOWN WITHIN THE PAVING FOR CLARITY ONLY, THE ACTUAL LOCATIONS SHALL BE WITHIN THE PLANTER. THE TREE BUBBLERS SHALL BE ALIGNED WITH TREES AS SHOWN ON THE PLANTING PLANS, AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL CONFIRM ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE E:
LATERAL LINE PIPING WITHIN BUILDING SHALL BE A TYPE K COPPER AND IS SHOWN FOR CLARITY ONLY, ACTUAL DESIGN AND ROUTING SHALL BE COMPLETED BY PLUMBING ENGINEER AND INSTALLED BY PLUMBING CONTRACTOR. EACH STUB-OUT WITHIN EACH PLANTER SHALL HAVE A COPPER FEMALE ADAPTER FOR THE LANDSCAPE CONTRACTOR CONNECTION. ALL PIPING THROUGH BUILDING TO EXTERIOR AND THROUGH BUILDING TO UPPER FLOOR SHALL BE PROVIDED BY PLUMBER.

NOTE F:
PRIOR TO START OF CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE OWNER AND LANDSCAPE ARCHITECT A SCALED SHOP DRAWING INDICATING THE PROPOSED LOCATIONS FOR THE IRRIGATION EQUIPMENT LISTED BELOW. THE SHOP DRAWING SHALL BE PREPARED TO THE SATISFACTION OF THE OWNER AND LANDSCAPE ARCHITECT. SHOP DRAWINGS MUST INCLUDE THE PROPOSED LOCATIONS FOR THE FOLLOWING ITEMS:

1. POINT OF CONNECTION (INCLUDING WATER POC, BACK FLOW DEVICES, MASTER CONTROL VALVES, FLOW SENSORS, ETC.)
2. ISOLATION VALVES
3. AUTOMATIC CONTROL VALVES (INDICATE STATION NUMBER)
4. QUICK COUPLING VALVES
5. IRRIGATION CONTROLLER(S)
7. RELATED EQUIPMENT (AS MAY BE DIRECTED).

EACH PIECE OF AFOREMENTIONED EQUIPMENT SHALL HAVE ITS PROPOSED INSTALLED LOCATION SHOWN ON THE SHOP DRAWINGS. THE SYMBOL FOR EACH PRODUCT SHALL BE A SCALED REPRESENTATION OF THE FOOTPRINT OF THE EQUIPMENT OR THE VALVE BOX IN WHICH THE EQUIPMENT IS INSTALLED. CONTRACTOR SHALL INSTALL ALL VALVE BOXES AND RELATED EQUIPMENT PER THE OWNER APPROVED SHOP DRAWINGS. ONCE THE SHOP DRAWING LOCATIONS ARE APPROVED, THE LANDSCAPE ARCHITECT OR OWNER'S AUTHORIZED REPRESENTATIVE WILL ALLOW NO ADJUSTMENTS TO THE APPROVED VALVE BOX PLACEMENT WITHOUT PRIOR WRITTEN ACCEPTANCE. ANY IRRIGATION EQUIPMENT INSTALLED WITHOUT PRIOR APPROVAL WITH SHOP DRAWINGS WILL BE SUBJECT TO RELOCATION BASED ON DIRECTION BY THE LANDSCAPE ARCHITECT AT THE CONTRACTOR'S EXPENSE.

COPPER LATERALS SHALL BE ROUTED THROUGH BUILDING TO LEVEL 2
REFER TO NOTE 'E'
COPPER LATERALS SHALL BE ROUTED THROUGH BUILDING TO LEVEL 3
REFER TO NOTE 'E'

COLLINS AVENUE

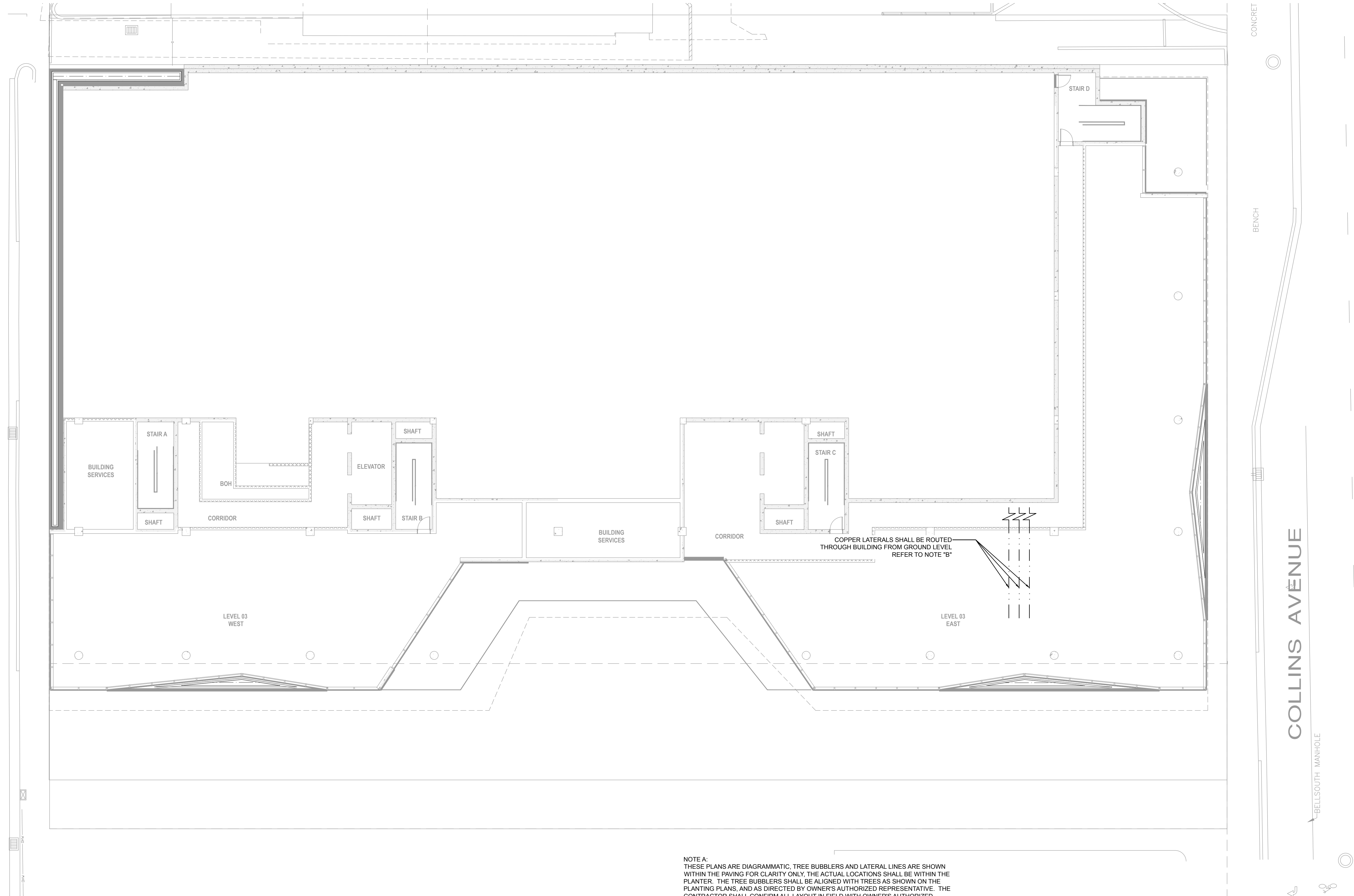


SCALE: 3/32" = 1'-0"



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LIBERTY AVENUE



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NOTE B:
LATERAL LINE PIPING WITHIN BUILDING SHALL BE A TYPE K COPPER AND IS SHOWN FOR CLARITY ONLY. ACTUAL DESIGN AND ROUTING SHALL BE COMPLETED BY PLUMBING ENGINEER AND INSTALLED BY PLUMBING CONTRACTOR. EACH STUB-OUT WITHIN EACH PLANTER SHALL HAVE A COPPER FEMALE ADAPTER FOR THE LANDSCAPE CONTRACTOR CONNECTION. ALL PIPING THROUGH BUILDING TO EXTERIOR AND THROUGH BUILDING TO UPPER FLOOR SHALL BE PROVIDED BY PLUMBER.

I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

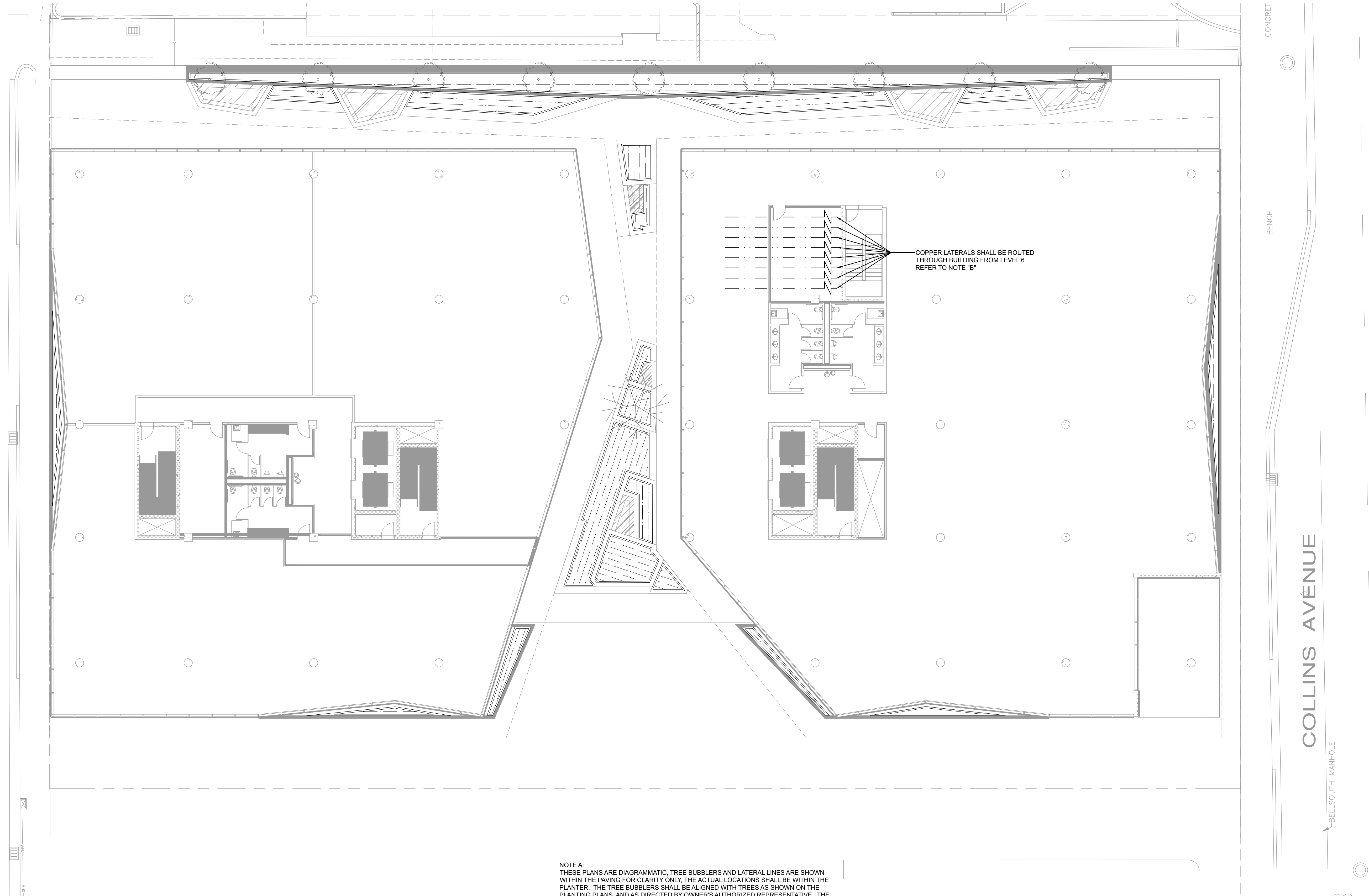


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LIBERTY AVENUE



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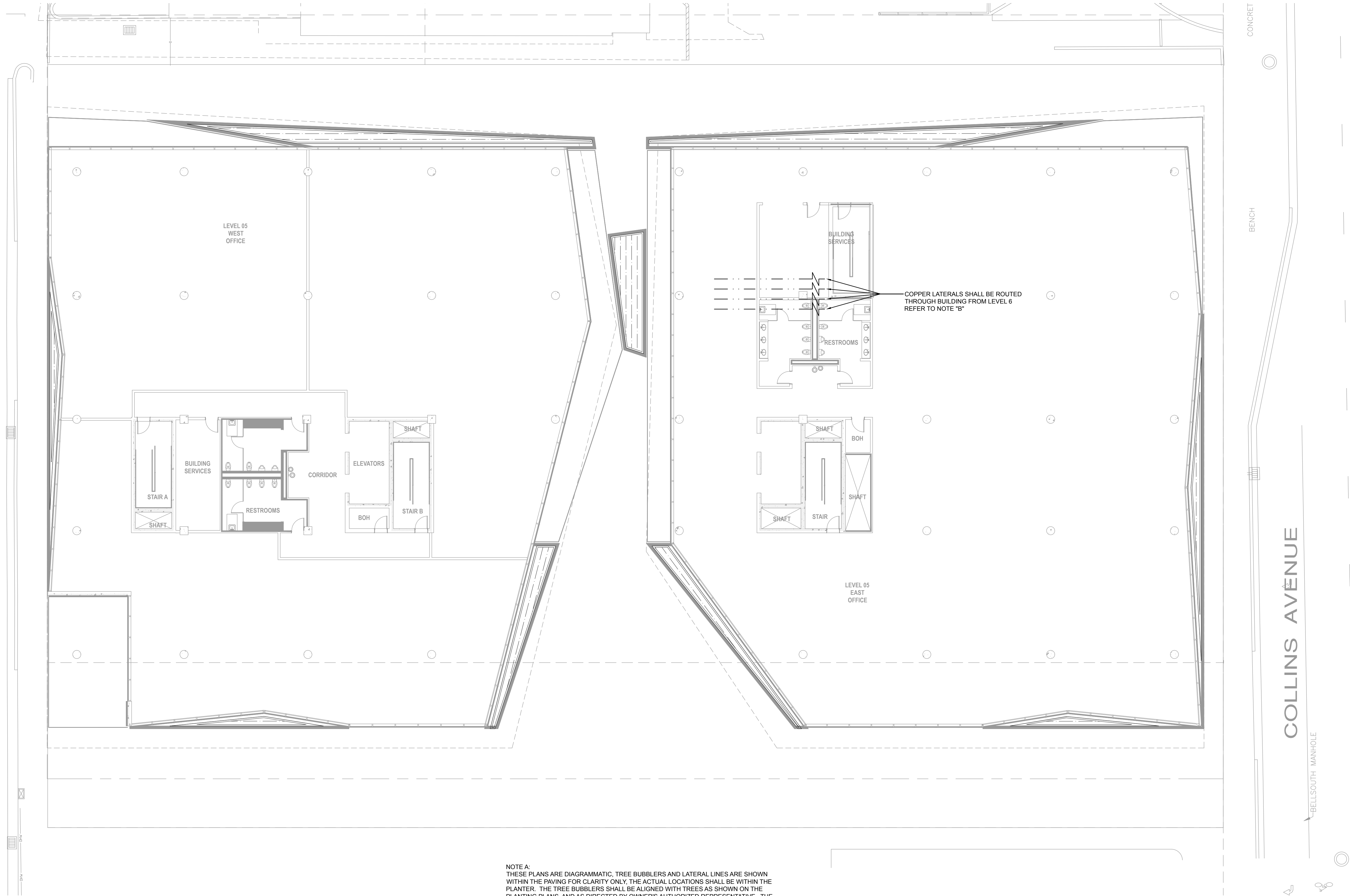


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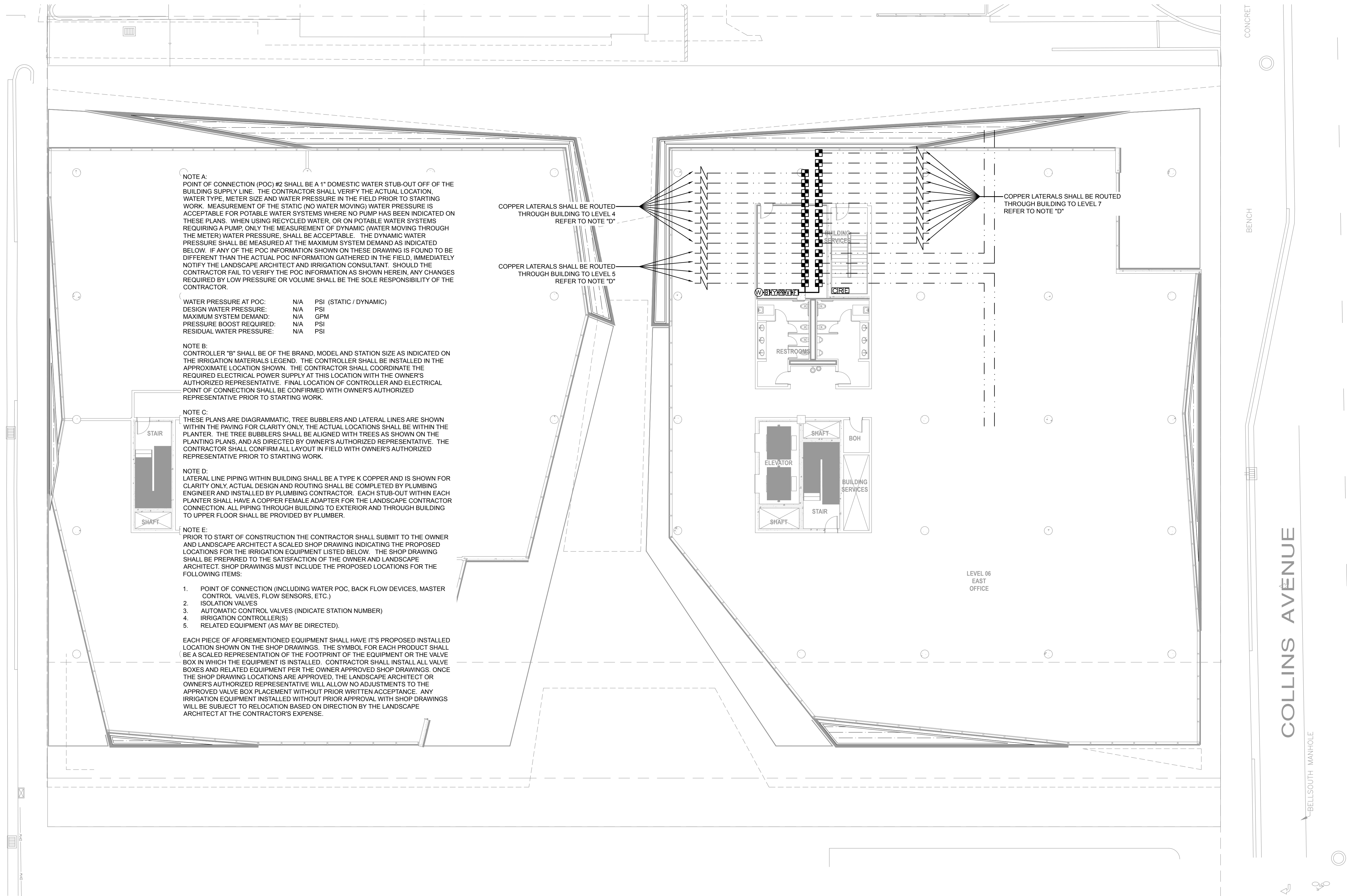


SCALE: 3/32" = 1'-0"



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LIBERTY AVENUE



NOTE A:
POINT OF CONNECTION (POC) #2 SHALL BE A 1" DOMESTIC WATER STUB-OUT OFF OF THE BUILDING SUPPLY LINE. THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION, WATER TYPE, METER SIZE AND WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK. MEASUREMENT OF THE STATIC (NO WATER MOVING) WATER PRESSURE IS ACCEPTABLE FOR POTABLE WATER SYSTEMS WHERE NO PUMP HAS BEEN INDICATED ON THESE PLANS. WHEN USING RECYCLED WATER, OR ON POTABLE WATER SYSTEMS REQUIRING A PUMP, ONLY THE MEASUREMENT OF DYNAMIC WATER MOVING THROUGH THE METER WATER PRESSURE SHALL BE ACCEPTABLE. THE DYNAMIC WATER PRESSURE SHALL BE MEASURED AT THE MAXIMUM SYSTEM DEMAND AS INDICATED BELOW. IF ANY OF THE POC INFORMATION SHOWN ON THESE DRAWING IS FOUND TO BE DIFFERENT THAN THE ACTUAL POC INFORMATION GATHERED IN THE FIELD, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT. SHOULD THE CONTRACTOR FAIL TO VERIFY THE POC INFORMATION AS SHOWN HEREIN, ANY CHANGES REQUIRED BY LOW PRESSURE OR VOLUME SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

WATER PRESSURE AT POC:	N/A	PSI (STATIC / DYNAMIC)
DESIGN WATER PRESSURE:	N/A	PSI
MAXIMUM SYSTEM DEMAND:	N/A	GPM
PRESSURE BOOST REQUIRED:	N/A	PSI
RESIDUAL WATER PRESSURE:	N/A	PSI

NOTE B:
CONTROLLER "B" SHALL BE OF THE BRAND, MODEL AND STATION SIZE AS INDICATED ON THE IRRIGATION MATERIALS LEGEND. THE CONTROLLER SHALL BE INSTALLED IN THE APPROXIMATE LOCATION SHOWN. THE CONTRACTOR SHALL COORDINATE THE REQUIRED ELECTRICAL POWER SUPPLY AT THIS LOCATION WITH THE OWNER'S AUTHORIZED REPRESENTATIVE. FINAL LOCATION OF CONTROLLER AND ELECTRICAL POINT OF CONNECTION SHALL BE CONFIRMED WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

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COPPER LATERALS SHALL BE ROUTED THROUGH BUILDING TO LEVEL 4 REFER TO NOTE "D"

COPPER LATERALS SHALL BE ROUTED THROUGH BUILDING TO LEVEL 5 REFER TO NOTE "D"

COPPER LATERALS SHALL BE ROUTED THROUGH BUILDING TO LEVEL 7 REFER TO NOTE "D"

LEVEL 06
EAST
OFFICE

CONCRETE

BENCH

COLLINS AVENUE

BELLSOUTH MANHOLE

I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

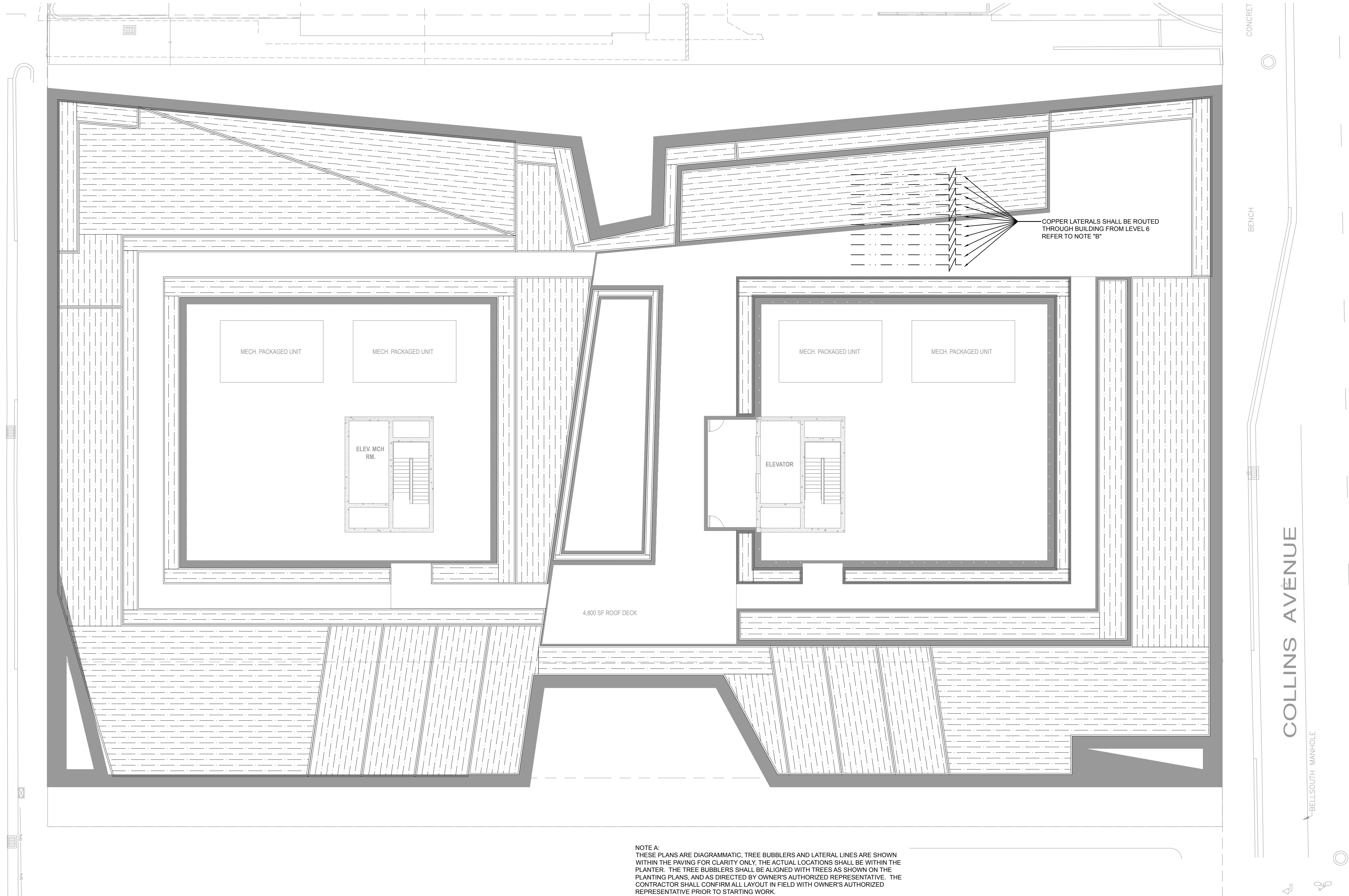


SCALE: 3/32" = 1'-0"



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LIBERTY AVENUE



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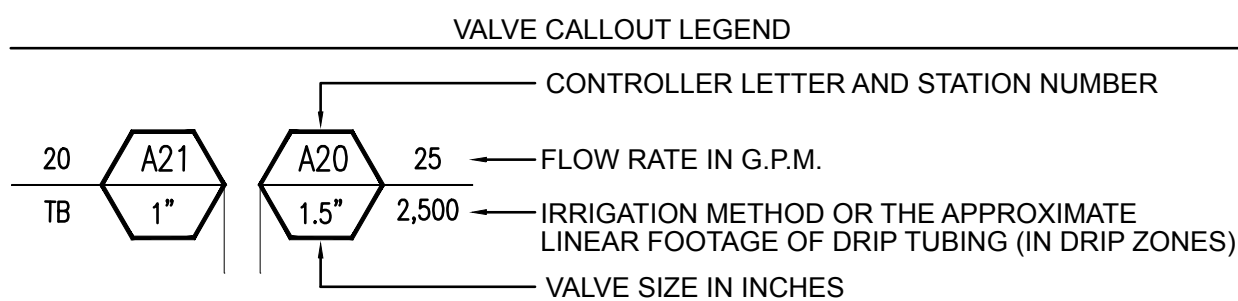
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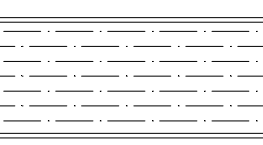
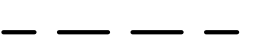



















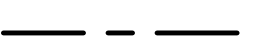

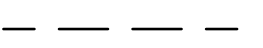
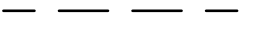


IRRIGATION MATERIAL LEGEND

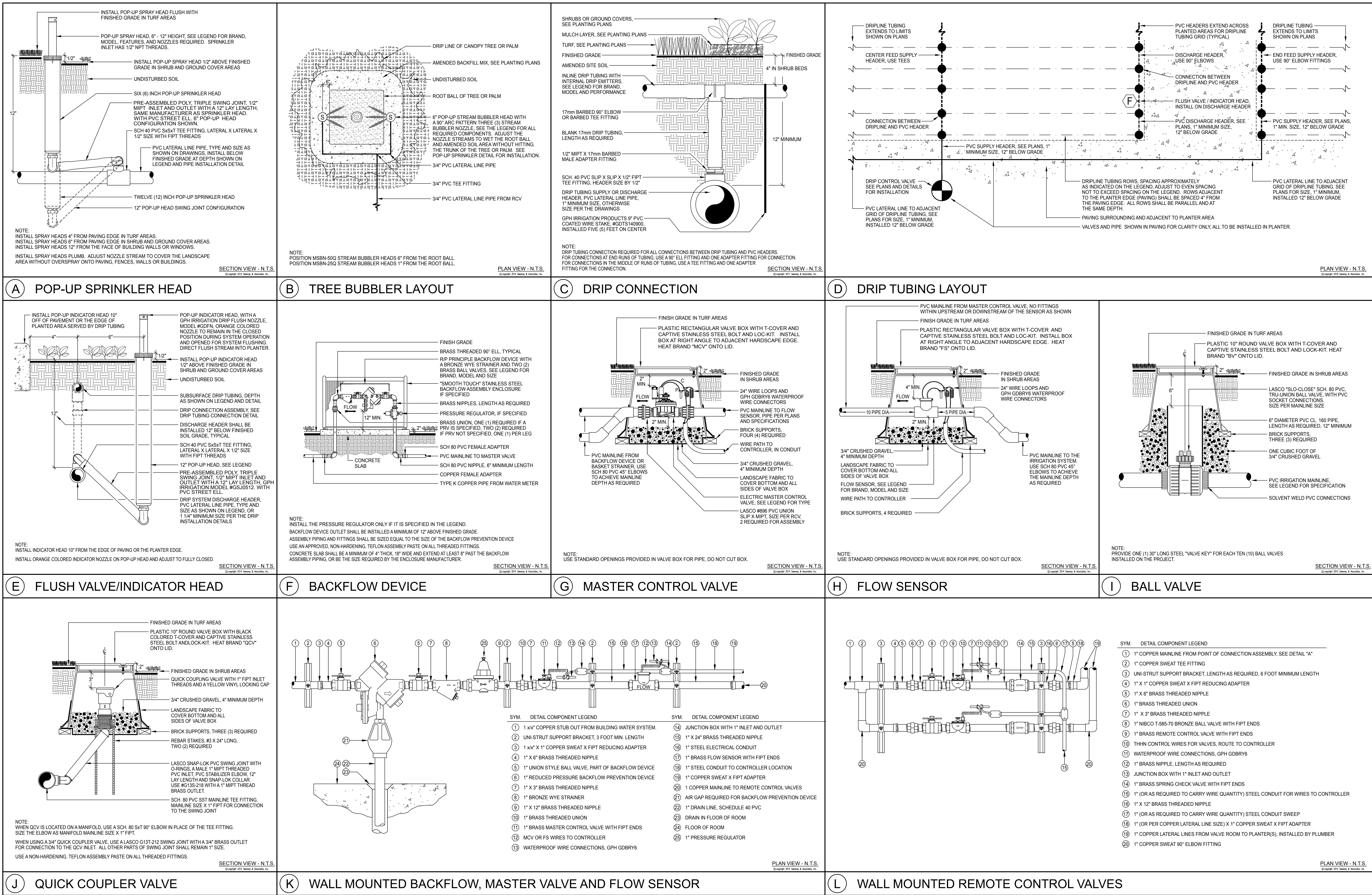
IRRIGATION NOTES

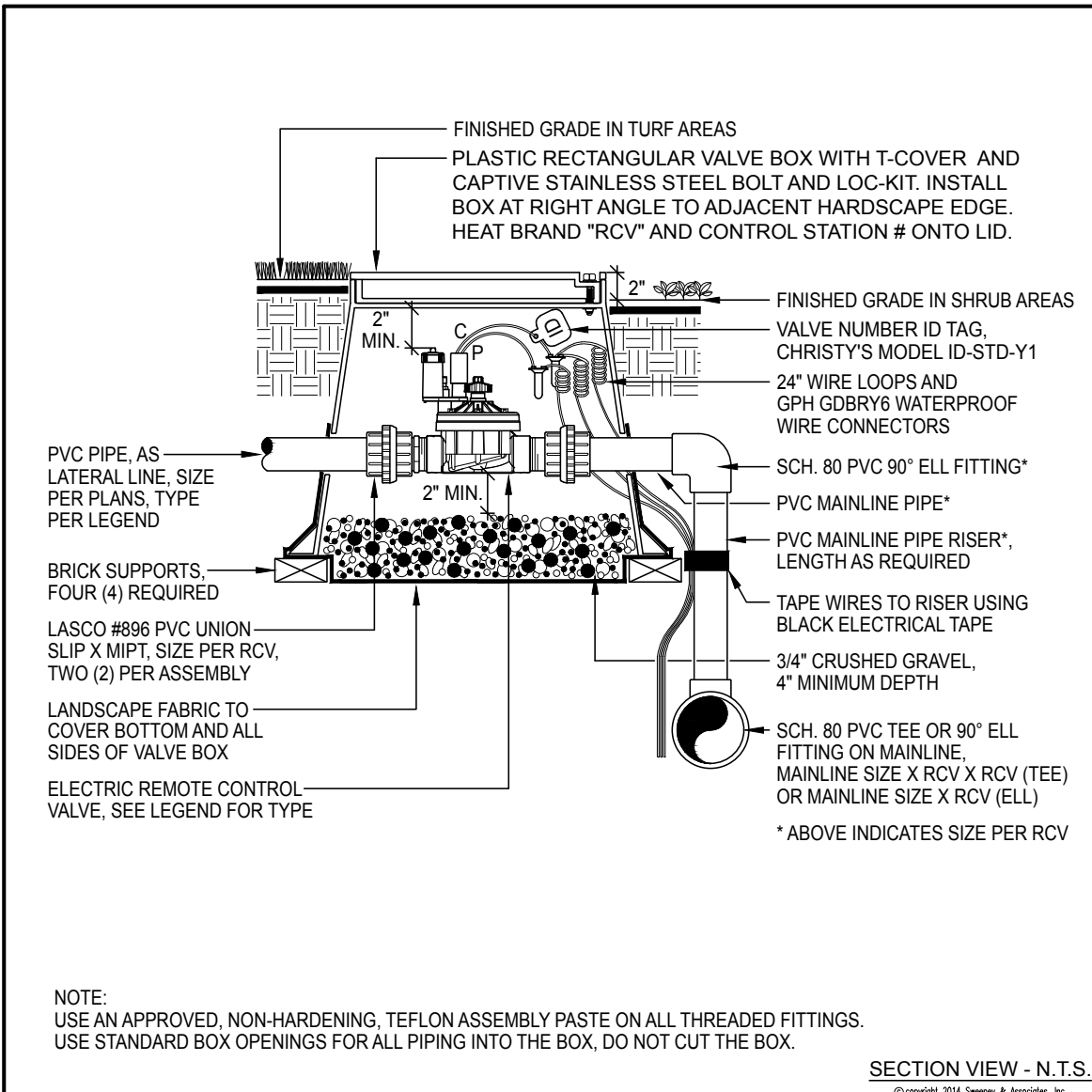
1. ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.
3. THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING OR ARCHITECTURAL PLANS BEFORE BEGINNING WORK.
4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK.
5. THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARITY ONLY AND IS TO BE INSTALLED WITHIN PLANTING AREAS.
6. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY EQUIPMENT AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN CONDITIONS EXIST THAT WERE NOT EVENT AT THE TIME THESE PLANS WERE PREPARED. SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO ANY WORK OR THE IRRIGATION CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CHANGES DEEMED NECESSARY BY THE OWNER.
7. INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH LOCAL CITY, COUNTY AND STATE REQUIREMENTS FOR BOTH EQUIPMENT AND INSTALLATION.
8. ACTUAL LOCATION FOR THE INSTALLATION OF THE BACKFLOW PREVENTER AND THE AUTOMATIC CONTROLLER IS TO BE DETERMINED IN THE FIELD BY THE OWNER'S AUTHORIZED REPRESENTATIVE.
9. CONTRACTOR IS TO PROVIDE AN ADDITIONAL PILOT WIRE FROM CONTROLLER ALONG ENTIRETY OF MAIN LINE TO THE LAST RCV ON EACH AND EVERY LEG OF MAIN LINE. LABEL SPARE WIRES AT BOTH ENDS.
10. ALL PIPE UNDER PAVED AREAS TO BE INSTALLED IN SLEEVING TWICE THE DIAMETER OF THE PIPE CARRIED. SEE LEGEND FOR TYPE. ALL WIRE UNDER PAVED AREAS TO BE INSTALLED IN A SCH. 40 SLEEVE THE SIZE REQUIRED TO EASILY PULL WIRE THROUGH. ALL SLEEVES TO BE INSTALLED WITH A MINIMUM DEPTH AS SHOWN ON THE SLEEVING DETAILS. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF THE PAVING.
11. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED IN SHRUB OR GROUND COVER AREAS WHERE POSSIBLE. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED AS SHOWN ON THE INSTALLATION DETAILS. INSTALL ALL QUICK COUPLER AND REMOTE CONTROL VALVES WITHIN 18" OF HARDSCAPE.
12. ALL HEADS ARE TO BE INSTALLED WITH THE NOZZLE, SCREEN AND ARCS SHOWN ON THE PLANS. ALL HEADS ARE TO BE ADJUSTED TO PREVENT OVERSPRAY ONTO BUILDINGS, WALLS, FENCES AND HARDSCAPE. THIS INCLUDES, BUT NOT LIMITED TO, ADJUSTMENT OF DIFFUSER PIN OR ADJUSTMENT SCREW, REPLACEMENT OF PRESSURE COMPENSATING SCREENS, REPLACEMENT OF NOZZLES WITH MORE APPROPRIATE RADIUS UNITS AND THE REPLACEMENT OF NOZZLES WITH ADJUSTABLE ARC UNITS.
13. CONTRACTOR SHALL INSTALL ADDITIONAL CHECK VALVES TO HEADS AND LATERALS AS REQUIRED TO PREVENT FLOW HEAD DRAINAGE.
14. THE CONTRACTOR SHALL USE PROPER GROUNDING TECHNIQUES FOR GROUNDING THE CONTROLLER AND RELATED EQUIPMENT PER MANUFACTURER'S SPECIFICATIONS. SWEENEY AND ASSOCIATES RECOMMENDS MEASURING FOR PROPER GROUND AT LEAST ONCE ANNUALLY, AND NECESSARY ADJUSTMENTS MADE TO COMPLY WITH MANUFACTURER SPECIFICATIONS.
15. THE CONTRACTOR IS REQUIRED TO CONTACT DIGALERT OR 811 A MINIMUM OF TWO (2) DAYS PRIOR TO THE START OF ANY EXCAVATIONS ON THE PROJECT AND SPECIFICALLY PRIOR TO THE INSTALLATION OF ANY GROUNDING RODS. DIAL 811 OR LOG ONTO WWW.DIGALERT.ORG TO START A PROJECT TICKET. DIGALERT AND 811 IS A FREE SERVICE PROVIDED TO THE PROJECT. FAILURE TO CONTACT AND HAVE THE EXISTING UTILITIES IDENTIFIED, LOCATED AND MARKED SHALL MAKE THE CONTRACTOR SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGES.



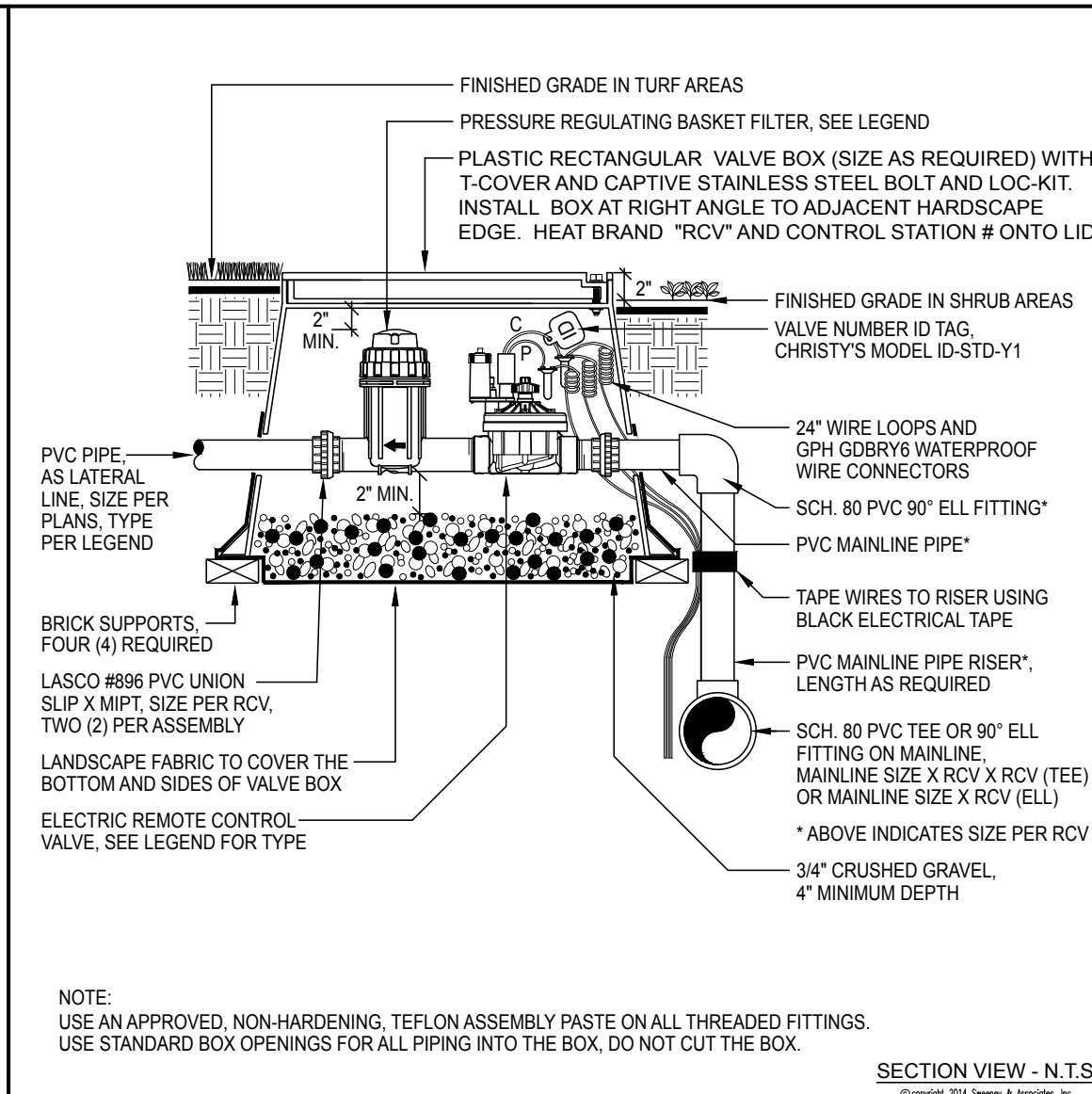
I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

SYMBOL	MANUFACTURER	MODEL NO. / DESCRIPTION	FLOW RATE (GPM)	PSI	RADIUS	P.R. (TR/L)	DETAIL
	RAIN BIRD	RD-06-S 6" POP-UP BUBBLER HEAD WITH A HUNTER MSBN-50Q STREAM BUBBLER NOZZLE (EACH SYMBOL REPRESENTS TWO (2) BUBBLER TO PROVIDE A TOTAL OF TWO (2) BUBBLERS PER TREE OR PALM. PLACE THE BUBBLER HEADS SIX (6) INCHES FROM THE ROOT BALL OF THE TREE OR PALM AND ON OPPOSITE SIDES OF TREE OR PALM. ADJUST BUBBLER STREAMS TO WET THE ROOT BALL AND ADJACENT AMENDED SOIL WITHOUT HITTING THE TRUNK OF THE TREE OR PALM.	5.0 (1.0 TOTAL)	30	1 FT	1.00 IN./HR.	A,B
	NETAFIM	TLHCVR5-12 SUBSURFACE DRIP TUBING (BROWN EXTERIOR COLOR) WITH 0.53 GPH, PRESSURE COMPENSATING EMITTERS INTERNALLY INSTALLED IN THE DRIP TUBING AT 12" O.C. SPACING. DRIP TUBING SHALL BE EQUIPPED WITH COPPER OXIDE INFUSED EMITTERS AND A PHYSICAL BARRIER TO PREVENT ROOT INTRUSION INTO THE DRIP EMITTER. DRIP EMITTERS SHALL BE CONTINUOUS FLUSHING TYPE AND EQUIPPED WITH A CHECK VALVE AND ANTI-SIPHON FEATURE. DRIP TUBING SHALL BE INSTALLED 4" BELOW FINISHED SOIL GRADE (NOT COUNTING MULCH) AND IN PARALLEL ROWS A MAXIMUM OF 16" ON CENTER. THE PERIMETER ROW OF DRIP TUBING SHALL BE INSTALLED A MAXIMUM OF 4" FROM THE EDGE OF ANY HARDSCAPE OR TURF EDGE. ALL SUBSEQUENT INTERIOR ROWS SHALL BE ADJUSTED TO PROVIDE AN EVEN SPACING ACROSS THE PLANTER WITHOUT EXCEEDING 16" MAXIMUM SPACING. INSTALL 3/4" PVC COATED GALVANIZED TUBING STAKES A MAXIMUM OF FIVE (5) FEET ON CENTER ALONG THE LENGTH OF THE TUBING. TUBING STAKES SHALL BE MODEL #G0T5 140900 AS MANUFACTURED BY GPH IRRIGATION PRODUCTS (866) 582-9684. THE HATCH PATTERN SYMBOLS ON THE PLANS REPRESENT THE APPROXIMATE DIRECTION AND SPACING OF THE DRIP TUBING ROWS. SEE SPACING REQUIREMENTS ABOVE AND IN DETAILS.					C,D
	NO SYMBOL	NETAFIM	CONNECTION BETWEEN HCVRX DRIP TUBING AND PVC SUPPLY AND DISCHARGE HEADERS SHALL BE MADE USING SCH. 40 PVC SXT FITTINGS, TL BARBED DRIP TUBING FITTINGS AND BLANK DRIP TUBING. WHEN THE CONNECTION IS AT THE END RUN OF THE TUBING USE A SCH. 40 PVC LATERAL X LATERAL X 1/2" S&SXT TEE (OR A LATERAL X 1/2" SXT 90° ELBOW) FITTING ON THE PVC LATERAL LINE HEADER, A TL050MA BARB X 1/2" MALE ADAPTER, A SHORT LENGTH OF BLANK DRIP TUBING, AND A TLTEE BARBED 90° ELBOW FITTING. WHEN THE CONNECTION IS IN THE MIDDLE OF THE TUBING RUN USE A SCH. 40 PVC LATERAL X LATERAL X 1/2" S&SXT TEE (OR A LATERAL X 1/2" SXT 90° ELBOW) FITTING ON THE PVC LATERAL LINE HEADER, A TL050MA BARB X 1/2" MALE ADAPTER, A SHORT LENGTH OF BLANK DRIP TUBING, AND A TLTEE BARBED TEE FITTING. ALL END RUNS OF TUBING SHALL BE CONNECTED WITH A PVC DISCHARGE HEADER. NO HEATING OF TUBING SHALL BE ALLOWED FOR ASSEMBLY.				C,D
	NO SYMBOL	NETAFIM	TL SERIES 17mm BARBED FITTINGS FOR CONNECTIONS BETWEEN DRIP TUBING (TUBING-TO-TUBING ONLY). NO HEATING OF TUBING SHALL BE ALLOWED.				C,D
	AS APPROVED	PVC SUPPLY AND DISCHARGE HEADERS SHALL BE PVC LATERAL LINE PIPE (AS SHOWN BELOW), 1 1/4" MINIMUM SIZE WITH SCH. 40 PVC FITTINGS.					C,D
	NO SYMBOL	NETAFIM	WHERE VINES ARE PLANTED ON WALLS, FENCES OR COLUMNS WITHIN THE DRIP TUBING ZONES, ADDITIONAL DRIP EMITTERS SHALL BE REQUIRED FOR THESE VINE PLANTINGS. THE CONTRACTOR SHALL INSTALL TWO (2) SP0V10 1 GPH DRIP EMITTERS PER VINE PLANTING. THESE ADDITIONAL EMITTERS SHALL BE PUNCHED DIRECTLY INTO THE DRIP TUBING. EMITTERS SHALL BE INSTALLED USING A SPDT EMITTER INSTALLATION TOOL. EACH DRIP EMITTER SHALL BE INSTALLED WITH AN 18" LENGTH OF EDTUBE-01 1/4" DISTRIBUTION TUBING, AN EDTUBE3TK TUBING STAKE, AND A VINYL 1/4" TUBING BUG CAP. LOCATE EMITTERS DIRECTLY OVER THE ROOT BALL OF THE VINE PLANTINGS.				D,F
	GPH IRRIGATION/ RAIN BIRD	GDPN DRIP FLUSH / INDICATOR NOZZLE, ORANGE IN COLOR, INSTALLED ONTO A RAIN BIRD 1812 12" POP-UP SPRINKLER BODY (NO PRS OR CHECK VALVE). THE FLUSH NOZZLE SHALL BE CLOSED FOR NORMAL OPERATION OF THE DRIP SYSTEM.					D,E
	P.O.C.	X" POTABLE (DOMESTIC) WATER METER WITH X" SERVICE LINE. VERIFY SIZE, LOCATION AND PRESSURE IN FIELD.					N/A
	WILKINS	975XLS, X" R/P BACK FLOW PREVENTION DEVICE WITH WYE STRAINER, INSTALL WITH BRASS NIPPLES, UNIONS AND FITTINGS, SIZED PER DEVICE					F
	NO SYMBOL	WILKINS	500XL-HLR X" BRONZE, HIGH LOW RANGE (10-125 PSI) PRESSURE REGULATOR, WITH SINGLE UNION FIPT X FIPT CONNECTIONS, INSTALL PRESSURE REGULATOR ON THE DOWNSTREAM SIDE OF THE BACK FLOW DEVICE. SET WATER PRESSURE TO 10 PSI ABOVE DESIGN PRESSURE SHOWN ON POC NOTES.				F
	NO SYMBOL	V.I.T.	STRONG BOX SBBC-XXSS "SMOOTH TOUCH" STAINLESS STEEL BACK FLOW DEVICE ENCLOSURE				F
	BUCKNER	3200-XXX X" NORMALLY CLOSED, BRASS MASTER CONTROL VALVE. WIRE MCV TO THE CONTROLLER USING A SEPARATE PILOT AND GROUND WIRE, ROUTE INSIDE A 1" SCH. 40 PVC (GRAY) ELECTRICAL CONDUIT. INSTALL INSIDE A STANDARD RECTANGULAR VALVE BOX.					G
	HYDROPOINT / WEATHERTRAK	WT-FS-XXX-CST XX" PVC TEE, CST TYPE FLOW SENSOR, WIRE TO CONTROLLER USING TWO (2) #14UF AWG WIRES INSIDE A 1" SCH. 40 PVC (GRAY) ELECTRICAL CONDUIT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND INSIDE A STANDARD RECTANGULAR VALVE BOX. MULTIPLE FLOW SENSORS SHALL REQUIRE SEPARATE CONDUIT RUNS. CONTACT CREATIVE SENSOR TECHNOLOGY'S REPRESENTATIVE, GENTLE & ASSOCIATES (STEVEN KIM) AT (760) 214-5734 FOR FURTHER INFORMATION.					H
	LASCO	VXX101N-SCH XX" SLO-CLOSE SCH. 80 PVC, TRUE-UNION BALL VALVE WITH SOLVENT WELD SOCKET CONNECTIONS, LINE SIZE PER MAINLINE. INSTALL INSIDE A 10" ROUND VALVE BOX.					I
	RAIN BIRD	44LRC 1" QUICK COUPLER VALVE WITH LOCKING VINYL COVER AND A LASCO G13S-218 SWING JOINT. INSTALL INSIDE A 10" ROUND VALVE BOX.					J
	P.O.C.	1" DOMESTIC WATER STUB-OUT. VERIFY SIZE, LOCATION AND WATER PRESSURE IN FIELD.					N/A
	WILKINS	975XL, 1" R/P WALL MOUNTED BACK FLOW PREVENTION DEVICE					K
	GRISWOLD	ISOLATOR 'S' SERIES 1" Y-STRAINER WITH 120 MESH FILTER SCREEN, INSTALLED ON WALL.					K
	WILKINS	500XL-HLR 1" BRONZE, HIGH LOW RANGE (10-125 PSI) PRESSURE REGULATOR, WITH SINGLE UNION FIPT X FIPT CONNECTIONS, INSTALL ON WALL SET WATER PRESSURE TO 10 PSI ABOVE DESIGN PRESSURE SHOWN ON POC NOTES.					K
	HUNTER	IBV-101G-FS-R 1" NORMALLY CLOSED, BRASS MASTER CONTROL VALVE. WIRE MCV TO THE CONTROLLER USING A SEPARATE PILOT AND GROUND WIRE, ROUTE INSIDE CONDUIT WITH FLOW SENSOR WIRE. INSTALL ON WALL.					K
	RAIN MASTER	FS-B100, 1" BRASS FLOW SENSOR IN A BRASS TEE, INSTALLED ON WALL, WIRE TO CONTROLLER USING EV-CAB-SEN CABLE WITHIN A 1" CONDUIT, INSTALL PER MANUFACTURER'S RECOMMENDATIONS					K
	NO SYMBOL	NIBCO	NIBCO T-585-70 BRONZE BALL VALVE WITH FIPT ENDS, SIZE PER LINE SIZE				K,L
	HUNTER	IBV-101G-FS, 1" BRASS REMOTE CONTROL VALVE (RCV), RCV SHALL BE WALL MOUNTED					L
	RAIN BIRD	XXX-PESB-PRS-D PRESSURE REGULATING, PLASTIC REMOTE CONTROL VALVE (RCV), SIZE AS SHOWN (1", 1 1/2" AND 2" SIZES), SET PRS-D PRESSURE REGULATOR TO PROVIDE THE OPERATING PRESSURE OF THE SPRINKLER / BUBBLER HEAD AT THE HIGHEST OR FARTHEST HEAD ON THE CONTROL VALVE ZONE (MEASURE PSI AT HEAD). INSTALL THE RCV INSIDE A STANDARD RECTANGULAR VALVE BOX.					M,O
	RAIN BIRD	PLASTIC DRIP REMOTE CONTROL VALVE ASSEMBLY, SIZE AS SHOWN (1" AND 1 1/2" SIZES). COMPLETE WITH PLASTIC CONTROL VALVE, DRIP FILTER AND PRESSURE REGULATION, AS SHOWN BELOW BY SIZE: FOR 1" DRIP ZONES: 100-PESB VALVE AND A PRB-QKCHK-100 PRESSURE REGULATING, 200 MESH BASKET FILTER. IN A STANDARD RECTANGULAR BOX. FOR 1" DRIP ZONES: 100-PESB VALVE AND A QKCHK-100, 200 MESH BASKET FILTER. IN A STANDARD RECTANGULAR BOX.					N,O
	HYDROPOINT / WEATHERTRAK	WTLC-C-XX-PL-F XX STATION CONTROLLER COMPLETE WITH FLOW KEY OPTION, AN INTERNET COMMUNICATIONS CARD AND A PLASTIC WALL MOUNTED ENCLOSURE. CONTRACTOR TO SUBSCRIBE TO (CIM4YA) WEATHERTRAK CENTRAL SERVICE FIVE (5) YEAR OF INTERNET BASED CENTRAL CONTROL AND DAILY WEATHER DATA DOWNLOAD SERVICES. THE CONTRACTOR TO REGISTER THE CONTROLLER SOFTWARE AND FULLY PROGRAM THE CONTROLLER FOR AUTOMATIC PROGRAM ADJUSTMENT. THE CONTRACTOR SHALL PROVIDE PROOF OF REGISTRATION AND PROGRAMMING TO THE OWNER.					P
	NO SYMBOL	PAIGE ELECTRIC	THE CONTROLLER SHALL BE GROUNDED USING A #182000 5/8" X 8 FOOT COPPER CLAD GROUND ROD, A #182005 CAST BRONZE ROD CLAMP AND THE REQUIRED LENGTH OF #6AWG BARE, SINGLE STRAND COPPER GROUND WIRE. INSTALL INSIDE A 10" ROUND VALVE BOX.				Q
	RAIN MASTER	RS-500 WIRE RAIN SENSOR, MOUNT IN RGVRS ENCLOSURE ON THE SIDE OF THE CONTROLLER ENCLOSURE, WIRE TO THE CONTROLLER.					R
	NIA	120 VOLT ELECTRICAL POWER FOR CONTROLLER, PROVIDED BY ELECTRICIAN, VERIFY ACTUAL LOCATION IN FIELD					N/A
	AS APPROVED	PVC PIPE 3/4" - 1 1/4" SCH. 40, SOLVENT WELD WITH SCH. 40 PVC FITTINGS, AS LATERAL LINES INSTALLED 12" BELOW FINISHED GRADE					S
	AS APPROVED	PVC PIPE 1 1/4" - 1 1/2" SCH. 40, SOLVENT WELD WITH SCH. 40 PVC FITTINGS, AS MAINLINES INSTALLED 18" BELOW FINISHED GRADE					S
	AS APPROVED	1" TYPE K COPPER, AS MAINLINE					K,L
	AS APPROVED	PVC PIPE SCH. 40 AS SLEEVING, 2 TIMES THE DIAMETER OF PIPE OR WIRE BUNDLE CARRIED (2" MINIMUM SIZE) INSTALL ALL PIPE AND WIRE UNDER PAVED HAZARDS AND BE SURE THE SLOPE OF THE PIPING IS IN THE DIRECTION OF THE IRRIGATION PIPING. USE A LINE SIZED X 6" SCH. 80 TO O.E. PVC NIPPLE AND A LINE SIZED PVC COUPLING FOR THE CONNECTION. VERIFY LOCATION, SIZE AND STUB-OUTS OF COPPER PIPING IN THE FIELD PRIOR TO STARTING WORK.					T
	NO SYMBOL	LASCO	ALL FITTINGS USED WITH SOLVENT WELD MAINLINE PIPE SHALL BE SCH. 80 PVC FITTINGS, GRAY IN COLOR, AND SIZED TO MATCH THE MAINLINE PIPE. ALL FITTINGS USED WITH SOLVENT WELD LATERAL LINE PIPE SHALL BE SCH. 40 PVC, WHITE IN COLOR, AND SIZED TO MATCH THE LATERAL LINE PIPE. ALL THREADED PVC NIPPLES SHALL BE SCH. 80 PVC PIPE, DARK GRAY IN COLOR, WITH MOLDED THREADS.				N/A
	NO SYMBOL	AS APPROVED	ALL SOLVENT WELD CONNECTIONS FOR BOTH MAINLINE AND LATERAL LINE SHALL BE MADE USING THE TWO-STEP PROCESS OF PRIMER AND SOLVENT CEMENT. PRIMER SHALL BE LOW VOC "PURPLE PRIMER". MAINLINE SOLVENT CEMENT SHALL BE LOW VOC "GRAY-HEAVY BODY" CEMENT. LATERAL LINE SOLVENT CEMENT SHALL BE LOW VOC, GRAY OR BLUE COLORED MEDIUM BODIED CEMENT. USE DAUBERS SIZED AT LEAST ONE-HALF THE SIZE OF THE LARGEST PIPE BEING JOINED. ALL SOLVENT CEMENTED JOINTS SHALL BE MADE PER THE PIPE AND FITTING MANUFACTURER'S RECOMMENDATIONS.				N/A
	NO SYMBOL	AS APPROVED	1" SCH. 40 PVC, GRAY ELECTRICAL CONDUIT FOR FLOW SENSOR / MASTER VALVE WIRES OR CENTRAL CONTROL COMMUNICATION CABLE, PROVIDE PULL BOX AT A MAXIMUM OF 200 FEET ON CENTER FOR A 3 FOOT WIRE LOOP OR ANY SPLICES. INSTALL INSIDE A STANDARD RECTANGULAR VALVE BOX.				N/A
	AS APPROVED	TYPE 'K' COPPER PIPING ROUTED BETWEEN PLANTERS, AND THROUGH BUILDING AND GARAGES. COPPER PIPING SHALL BE DESIGNED BY THE PLUMBER OR ENGINEER AND BE IN ACCORDANCE WITH THE AUTHORIZED REPRESENTATIVE'S INSIDE SLEEVES. SLEEVES UNDER PEDESTRIAN PAVING IS FOR REFERENCE ONLY. VERIFY LOCATION, SIZE AND STUB-OUTS OF COPPER PIPING IN THE FIELD PRIOR TO STARTING WORK.					N/A
	AS APPROVED	CONNECTION POINT BETWEEN COPPER PIPING (PROVIDED BY PLUMBER) AND PVC IRRIGATION PIPING. COPPER PIPE STUB-OUT SHALL HAVE A LINE SIZED 1/2" X FIPT OR COPPER ADAPT TO THE PROVIDED COPPER CONNECTION. VERIFY LOCATION, SIZE AND STUB-OUTS OF COPPER PIPING IN THE FIELD PRIOR TO STARTING WORK.					N/A
	NO SYMBOL	PAIGE ELECTRIC	97789D POLYETHYLENE INSULATED, SOLID COPPER CONDUCTOR IRRIGATION CONTROL WIRE #14UF AWG DIRECT BURIAL (U.L. APPROVED). PILOT WIRES SHALL BE RED IN COLOR, COMMON GROUND WIRE IN WHITE IN COLOR, SPARE WIRES SHALL BE YELLOW IN COLOR. WHERE MULTIPLE CONTROLLERS ARE USED ON THE PROJECT, EACH CONTROLLER SHALL HAVE A DIFFERENT COLOR FOR PILOT WIRES. THE CONTRACTOR SHALL ROUTE TWO (2) SPARE CONTROL WIRES (YELLOW) FROM THE CONTROLLER ALONG THE MAINLINE IN ALL DIRECTIONS AWAY FROM THE CONTROLLER. LOOP SPARE WIRES UP AND INTO EACH VALVE BOX ALONG THE MAINLINE, PROVIDING A 3 FOOT MINIMUM LOOP.				K,L,S
	NO SYMBOL	GPH IRRIGATION	GDBY6 DIRECT BURIAL, 100% SILICONE GEL, WATER-PROOF WIRE CONNECTORS FOR USE ON ALL WIRE SPLICES AND CONNECTIONS				U
	NO SYMBOL	NDS (K.B.I.)	KSC-XXX-S SWING CHECK VALVE, LATERAL LINE SIZE, INSTALL ONE (1) ON THE DOWNSTREAM SIDE OF EACH RCV WHEN THE RCV IS LOWER THAN THE SPRINKLERS, BUBBLERS OR DRIP EMITTERS. INSTALL WITHIN SPRINKLER / BUBBLER / DRIP ZONES AS REQUIRED TO PREVENT LOW HEAD DRAINAGE.				N/A
	NO SYMBOL	NDS (K.B.I.)	KC-XXX-S SPRING CHECK VALVE, LATERAL LINE SIZE, INSTALL ONE (1) ON THE DOWNSTREAM SIDE OF EACH RCV WHEN THE RCV IS HIGHER THAN THE SPRINKLERS, BUBBLERS OR DRIP EMITTERS. INSTALL WITHIN SPRINKLER / BUBBLER / DRIP ZONES AS REQUIRED TO PREVENT LOW HEAD DRAINAGE.				N/A
	NO SYMBOL	RAIN BIRD	ALL VALVE BOXES SHALL BE V8 SERIES, PLASTIC TYPE WITH OVERLAPPING LIDS. VALVE BOX BODIES SHALL BE BLACK IN COLOR. LIDS FOR BOXES IN TURF V8 SERIES SHALL BE GREEN. LIDS FOR VALVE BOXES IN SHRUB AREAS SHALL BE BLACK. ALL BOXES SHALL BE SECURED WITH A RAIN BIRD V8-LOCK-P PENTA HEAD BOLT, WASHER AND CLIP. BOXES SHALL BE AS SHOWN BELOW.				V
		DESCRIPTION	TURF AREAS (GREEN LIDS)	SHRUB AREAS (BLACK BOXES AND LIDS)			
		10" ROUND BOXES	VB-10RND	VB-10RND(B) (BOX) AND VB-10RND(BK) (LID)			
		STANDARD RECTANGULAR BOXES	VB-STD	VB-STD(B) (BOX) AND VB-STD(BK) (LID)			

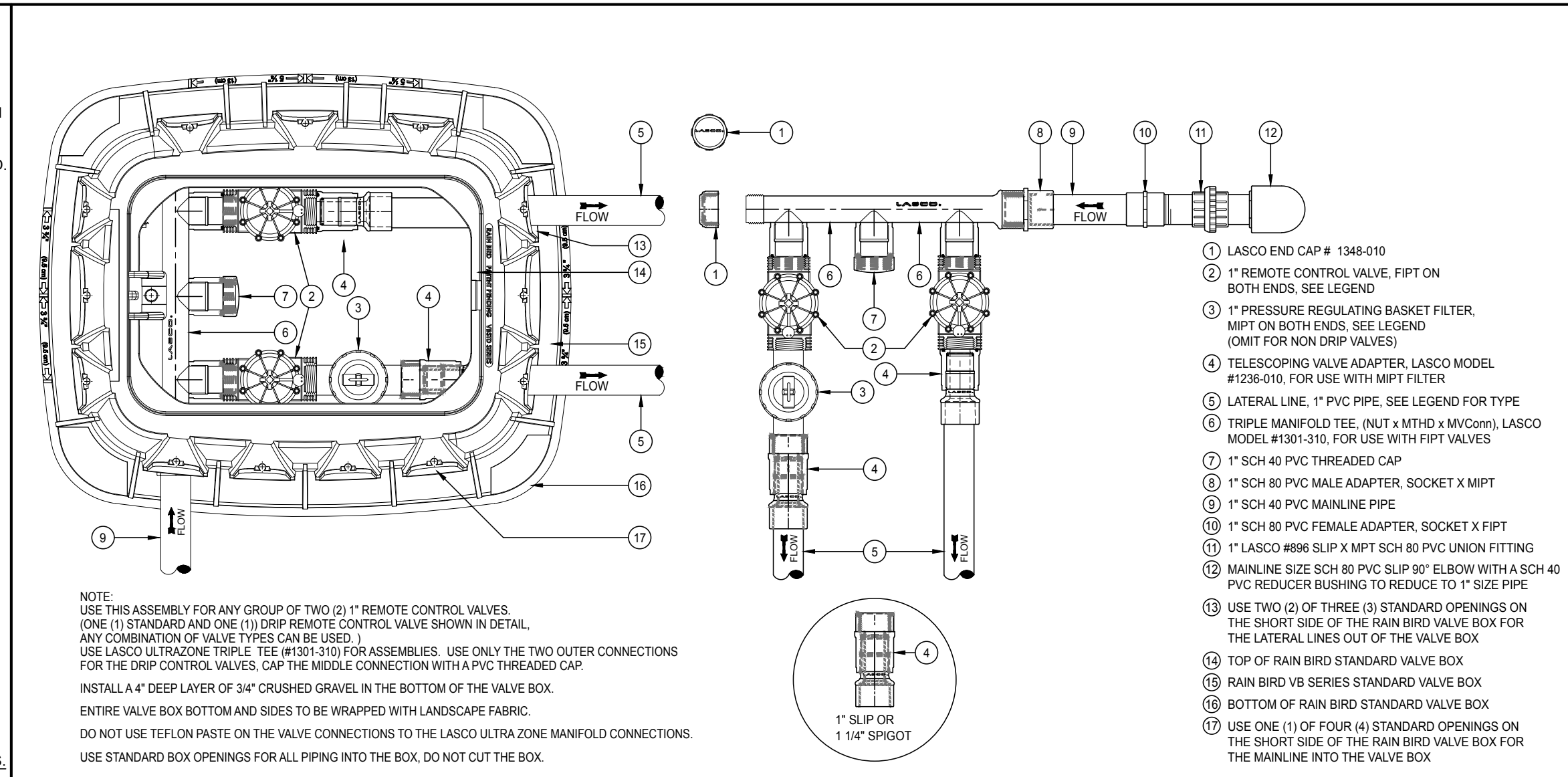




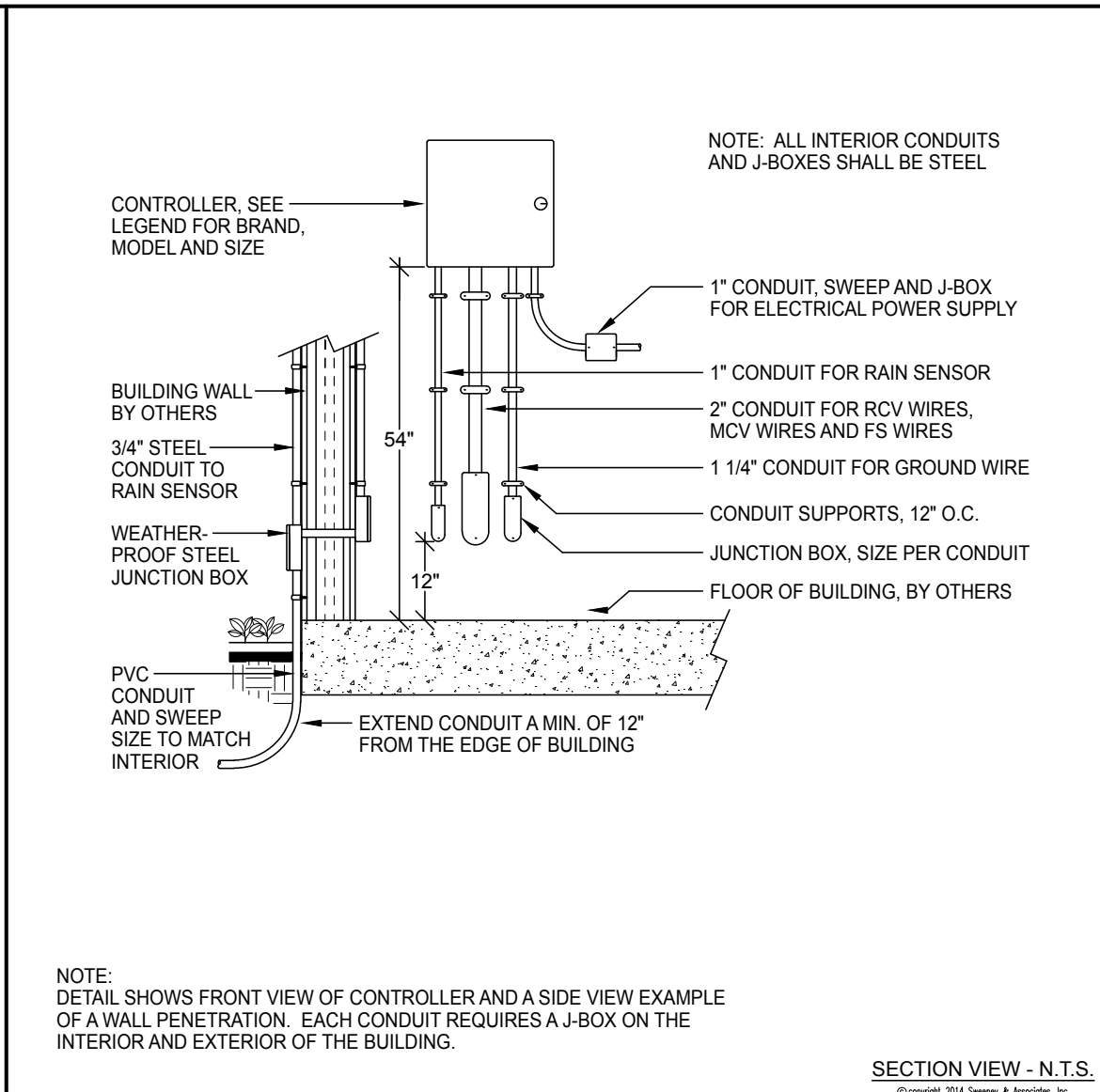
M REMOTE CONTROL VALVE



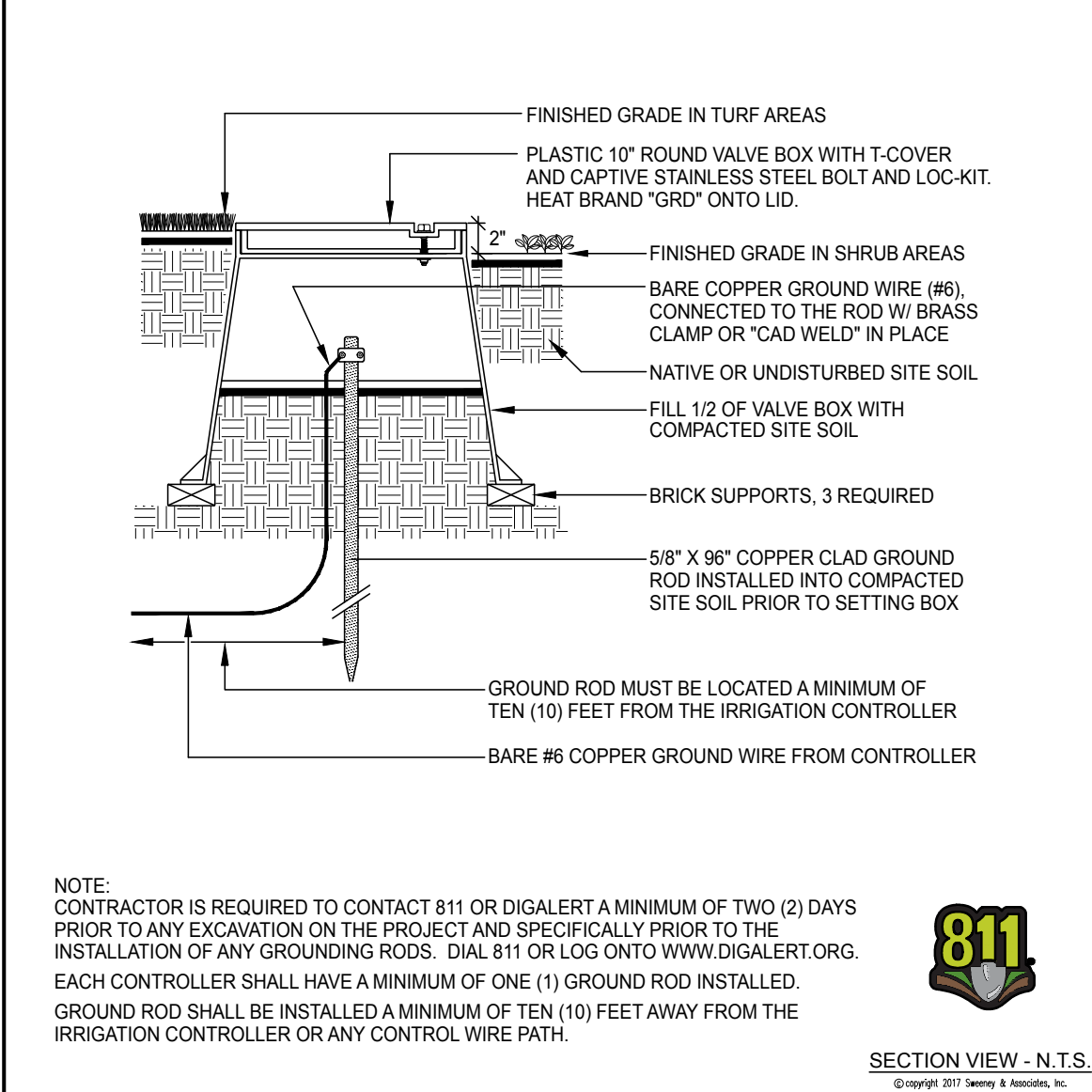
N DRIP REMOTE CONTROL VALVE



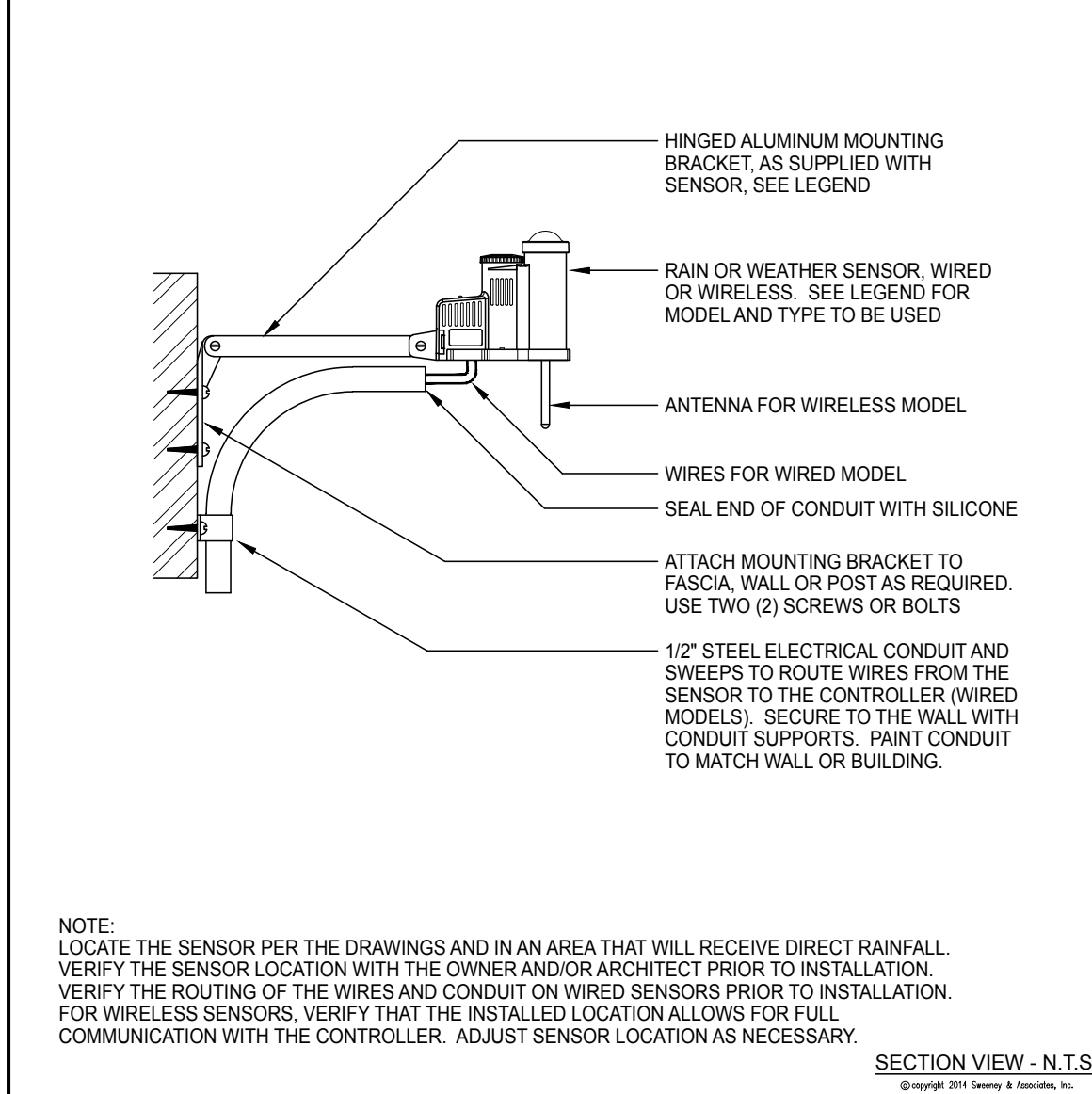
O COMBINED REMOTE CONTROL VALVE ASSEMBLY



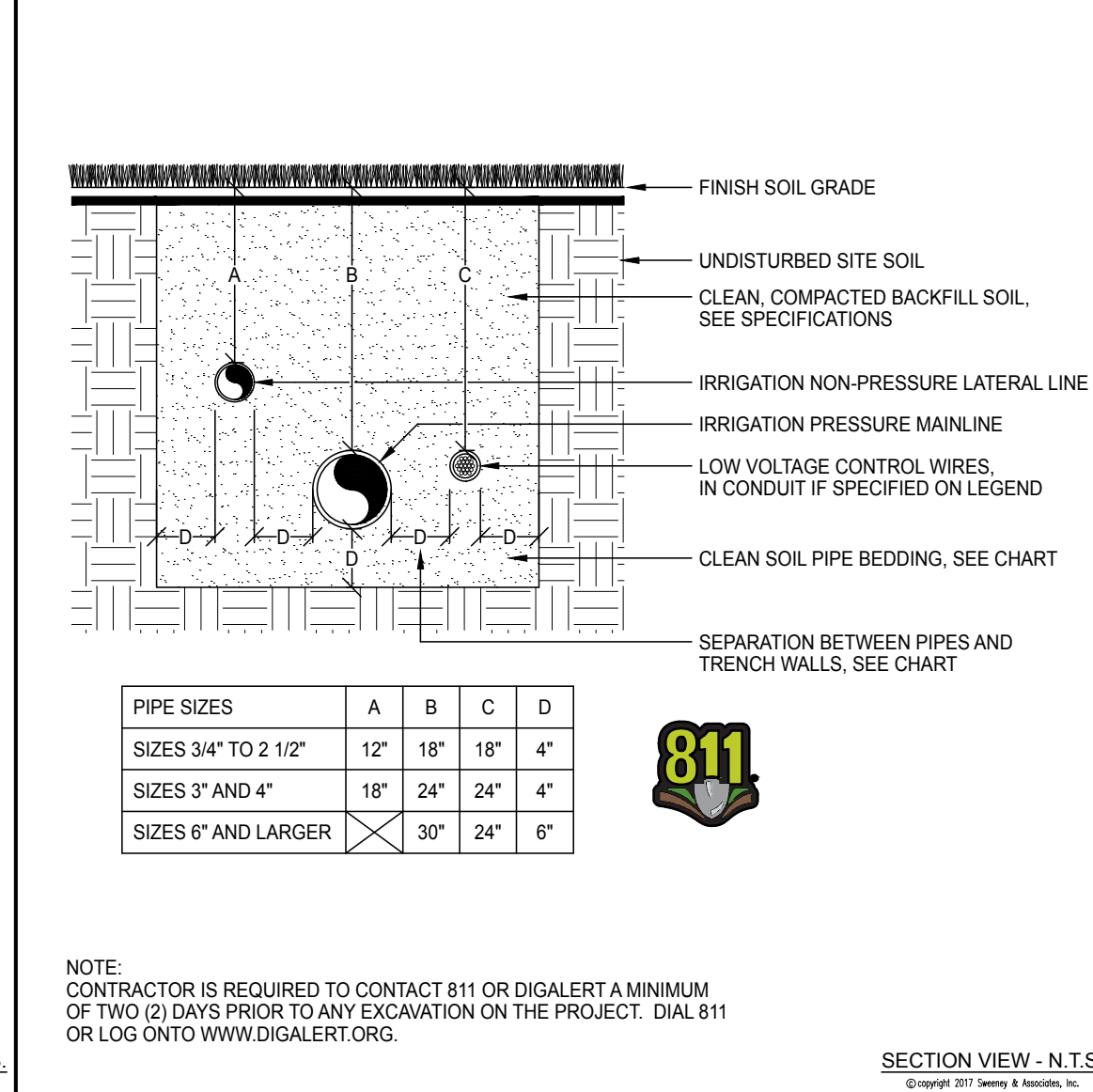
P WALL MOUNTED CONT. ASSEMBLY



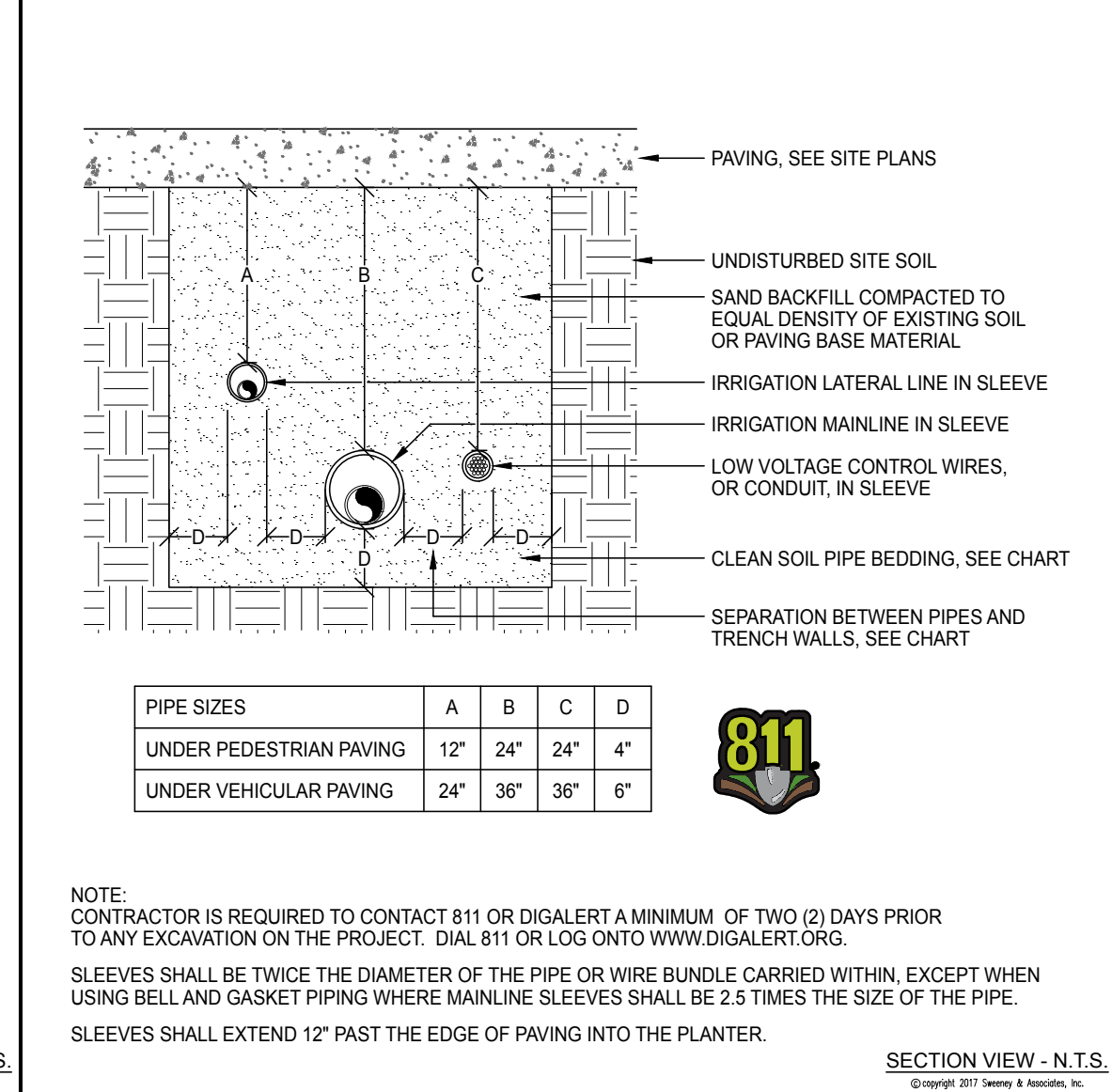
Q GROUNDING ROD



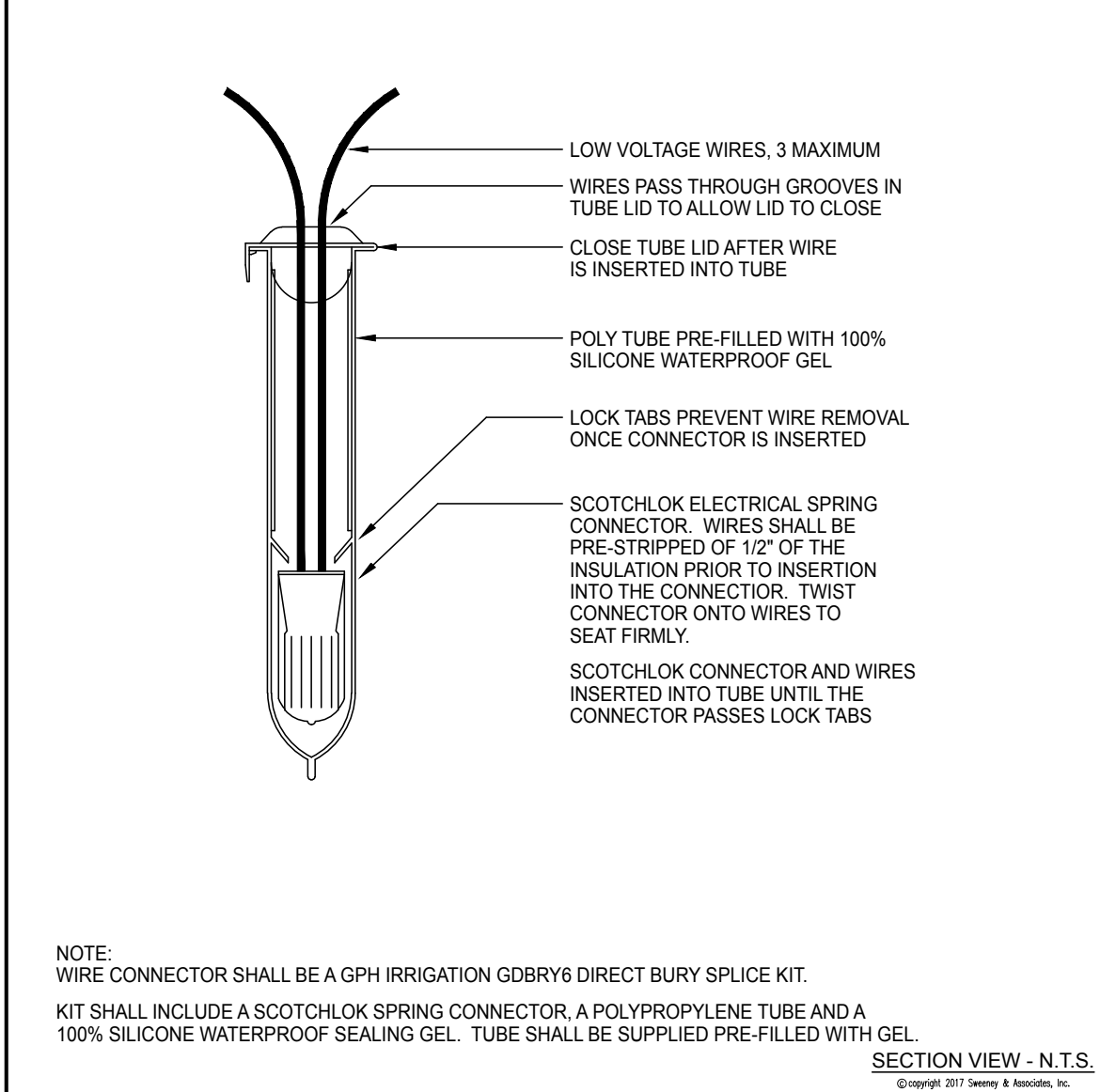
R RAIN SENSOR



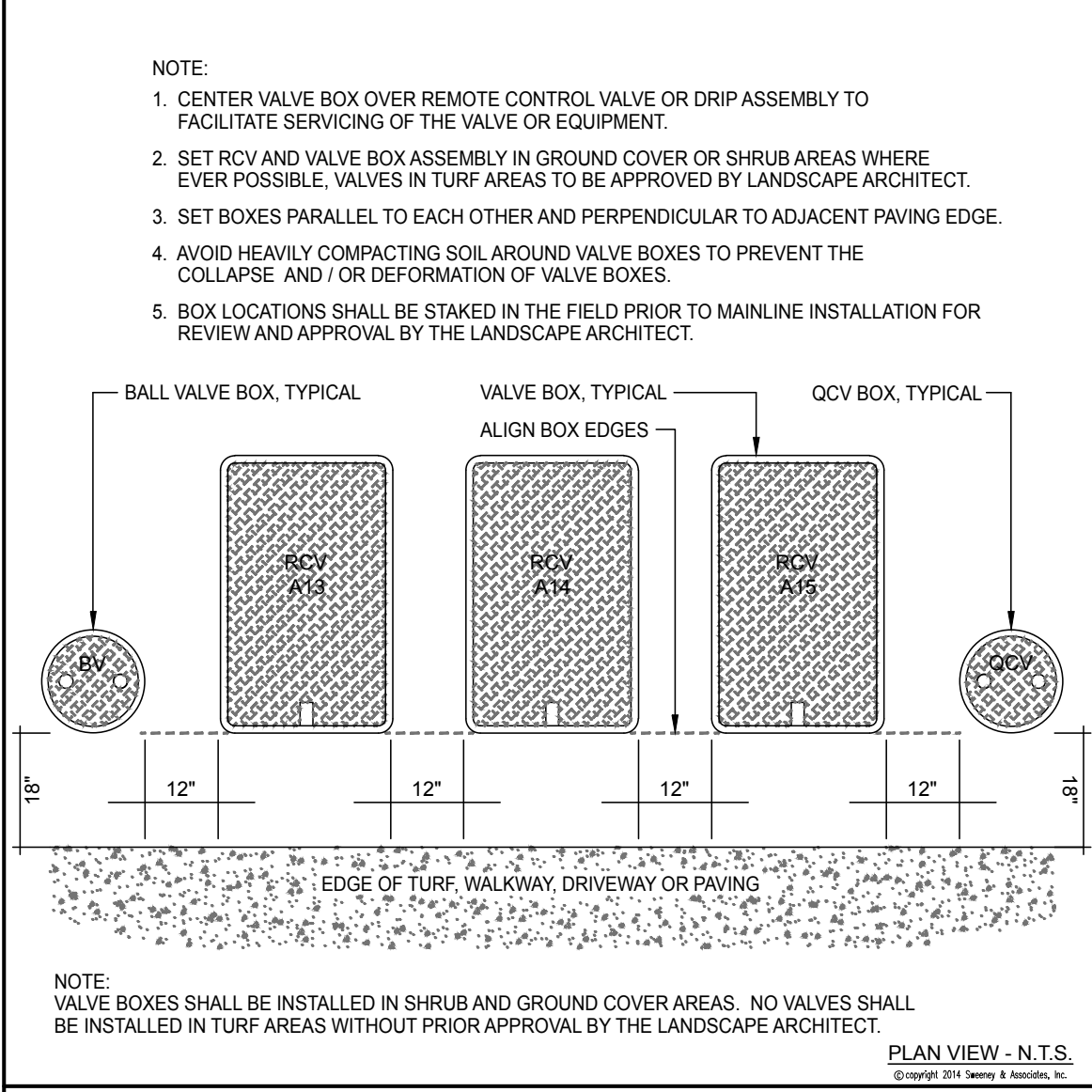
S PIPE INSTALLATION



T SLEEVE INSTALLATION



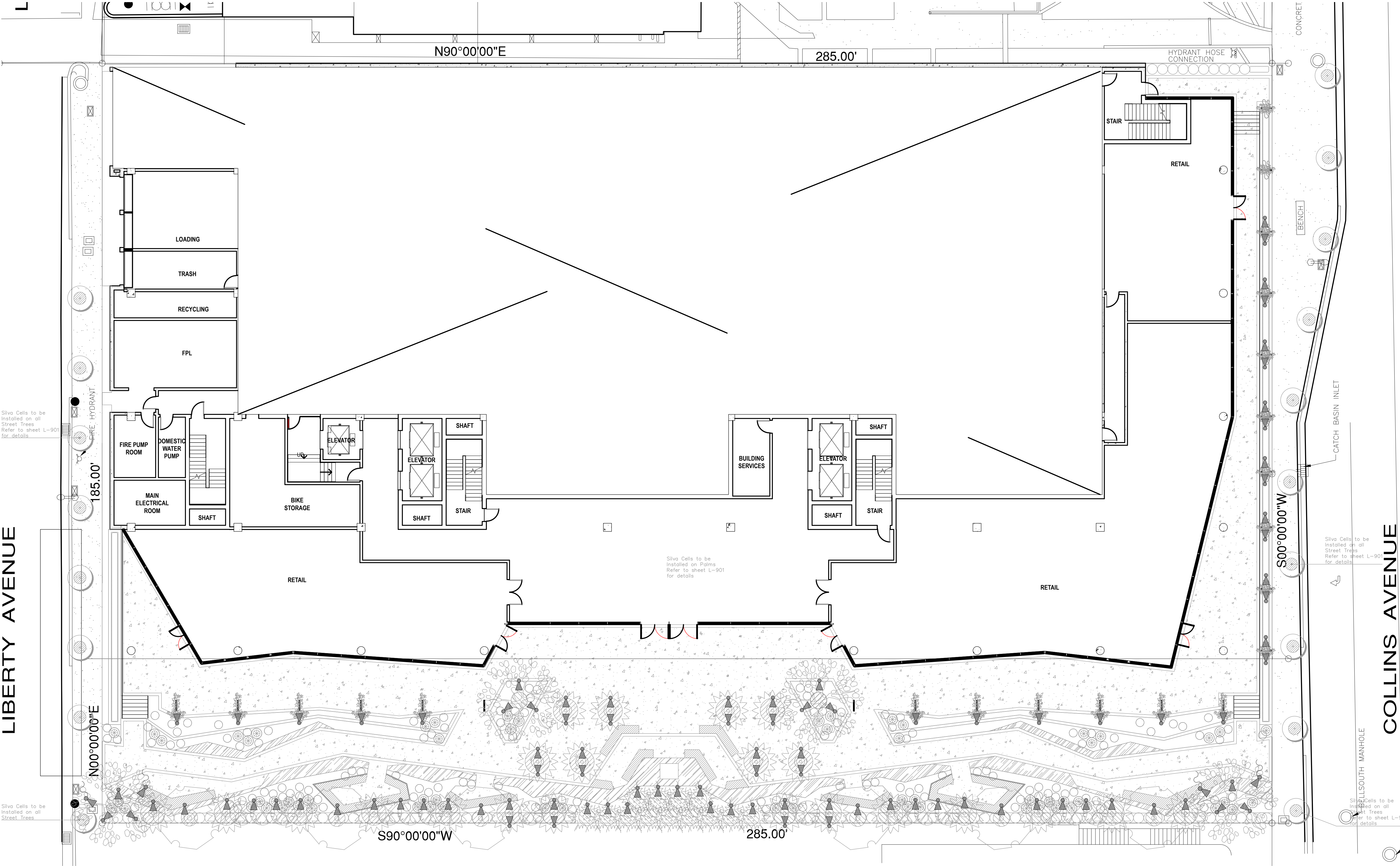
U WIRE CONNECTION



V VALVE BOX LAYOUT

I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION
GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE
EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN

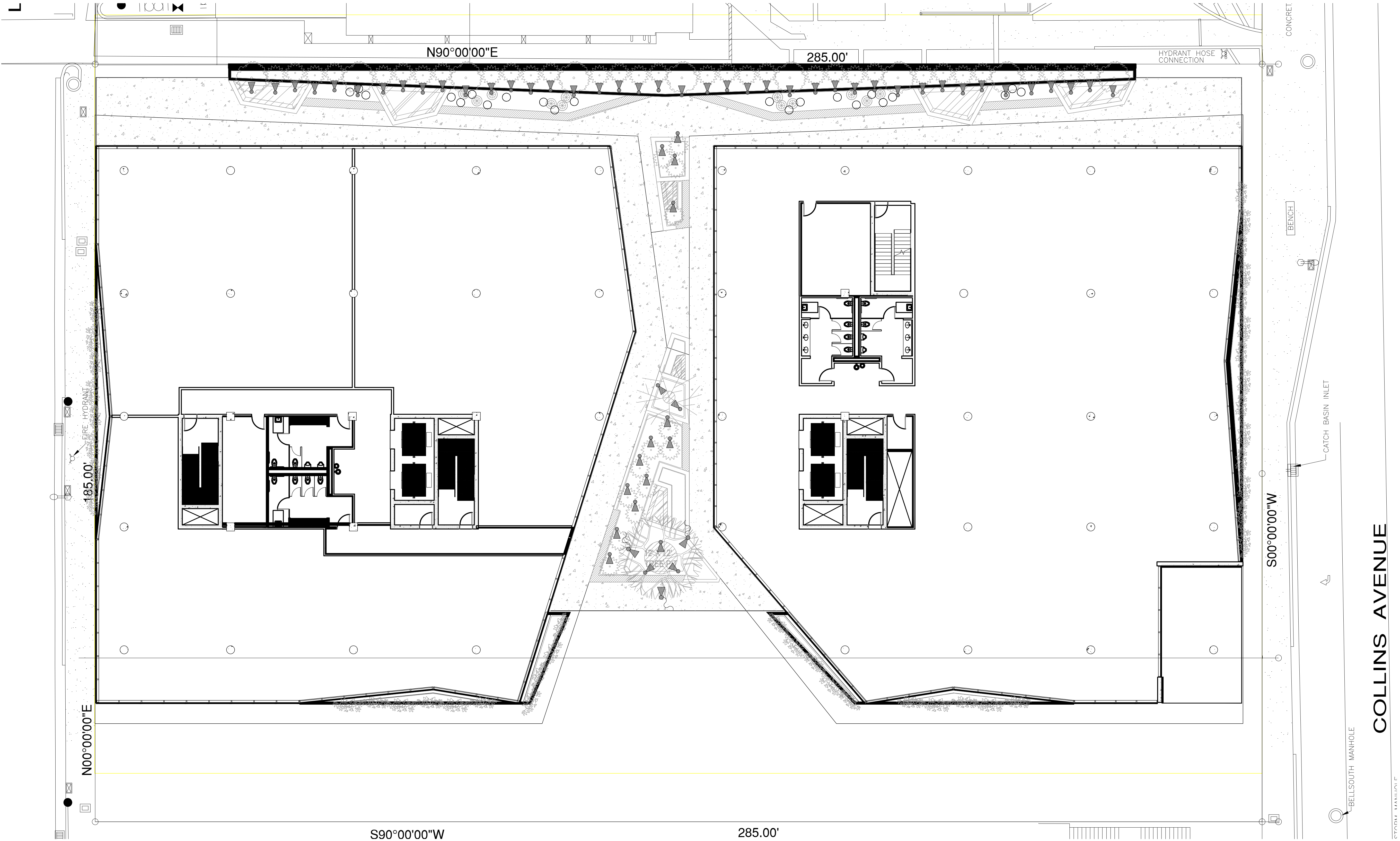




OVERALL SITE LIGHTING LEGEND					
SYMBOL	FIXTURE	# OF FIXTURES	MODEL #	TYPE OF MOUNT	NOTES
	Model UL-4 Up Light. Stake Mount. Excelsior Lighting	97	MODEL UL-4	Stake	Integral LED 12V, 4 W
	MODEL RL-2L Down Light. Tree Moun. Excelsior Lighting	6	MODEL RL-2L	Tree Mounted	Integral LED 12V, 4 W

SCALE: 3/32" = 1'-0"





OVERALL SITE LIGHTING LEGEND					
SYMBOL	FIXTURE	# OF FIXTURES	MODEL #	TYPE OF MOUNT	NOTES
	Model UL-4 Up Light. Stake Mount. Excelsior Lighting	97	MODEL UL-4	Stake	Integral LED 12V, 4 W
	MODEL RL-2L Down Light. Tree Moun. Excelsior Lighting	6	MODEL RL-2L	Tree Mounted	Integral LED 12V, 4 W

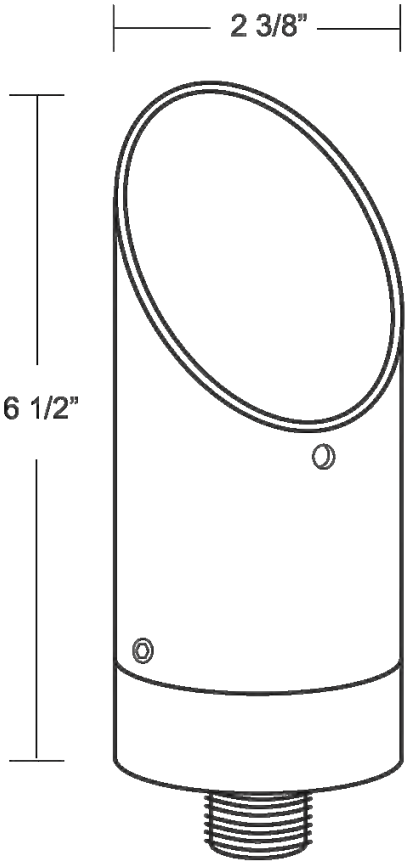
UP LIGHT

12V 10W INTEGRAL LED

MODEL UL-4L

Specification-grade landscape lighting, wet-location luminaire for up lighting or down lighting applications. Can be utilized for ground mounted, tree mounted or surface mounted installations.

- Machined 6061-T6 copper-free aluminum. Aluminum components are black anodized, then a polyester powder coat finish is applied. Seven standard TGIC powder coat finishes and clear anodized finish available.
- Integral LED Module: 4W, 7W, 10W.
- Available in 2700K, 3000K.
- Remote transformer required.
- Stainless steel hardware.
- 10" 18ga. Teflon coated wire leads.
- Tempered clear glass lens.
- 45° angled lens cap holds 2 lens accessories.
- High-temperature silicone O-ring seal used to seal the cap against the body.
- Molded silicone wire pass-thru attached to socket wire prevents wicking and water leaking into the lamp compartment.
- CSA & UL listed for wet location landscape use (UL1838).
- Warranty: 10 Years.



Specifications

MODEL:	UL-4L	LAMPING:	10W Integral LED Module	
MATERIAL:	6061-T6 Aluminum	FINISHES:	BK - Black BZ - Bronze WT - White BG - Beige	BKT - Black Texture BZT - Bronze Texture SL - Silver CA - Clear Anodized
VOLTAGE:	10.8-13.2V			
WATTAGE:	4W, 7W, 10W			

Ordering Logic:

MODEL	METAL	FINISH		
UL - 4L	A - Aluminum	BK- Black BZ - Bronze WT - White BG - Beige	BKT - Black Texture BZT - Bronze Texture SL - Silver CA - Clear Anodized	

ORDERING EXAMPLE: UL - 4L - A - BK - 52*

*See Module sheet to select module type to be installed

Excelsior Lighting, Inc.

PROJECT

TYPE

2507 N. Bundy Drive Fresno, CA 93727 T - 559.346.1051 F - 559.346.1071 excelsiorlighting.com

UPLIGHT
SCALE: NTS

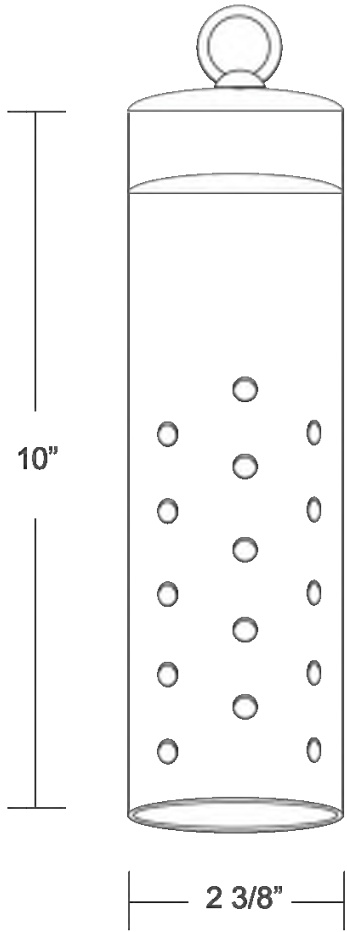
DOWNLIGHT

12V 10W INTEGRAL LED

MODEL RL-2L

Specification-grade landscape lighting, wet-location luminaire for down lighting applications. Can be utilized for pergola or tree-mounted installations

- Machined 6061-T6 copper-free aluminum. Aluminum components are black anodized, then a polyester powder coat finish is applied. Seven standard TGIC powder coat finishes and clear anodized finish available.
- Integral LED: 4W, 7W, 10W.
- Available in 2700K, 3000K.
- Remote transformer required.
- Stainless steel hardware.
- 1" brass loop for mounting.
- 12" 18 ga. shrink tube covered, black wire leads.
- Frosted acrylic liner.
- Optional frosted lens glued in at bottom of fixture.
- High-temperature silicone O-ring seal used to seal the cap against the body.
- Molded silicone wire pass-thru attached to socket wire prevents wicking and water leaking into the lamp compartment.
- CSA & UL listed for wet location landscape use (UL1838).
- Warranty: 10 Years.



Specifications

MODEL:	RL-2L	LAMPING:	10W Integral LED Module	
MATERIAL:	6061-T6 Aluminum	FINISHES:	BK - Black BZ - Bronze WT - White BG - Beige	BKT - Black Texture BZT - Bronze Texture SL - Silver CA - Clear Anodized
VOLTAGE:	10.8-13.2V			
WATTAGE:	4W, 7W, 10W			

Ordering Logic:

MODEL	METAL	BOTTOM LENS	CABLE		FINISH	
RL - 2L	A - Aluminum	0 - None 1 - Frosted lens glued in	0 - None 5 - 5 ft 10 - 10 ft 15 - 15 ft	20 - 20 ft 25 - 25 ft 30 - 30 ft	BK- Black BZ - Bronze WT - White BG - Beige	BKT - Black Texture BZT - Bronze Texture SL - Silver CA - Clear Anodized

ORDERING EXAMPLE: RL - 2L - A - 1 - 0 - BK - 52*

*See Module sheet to select module type to be installed

Excelsior Lighting, Inc.

PROJECT

TYPE

2507 N. Bundy Drive Fresno, CA 93727 T - 559.346.1051 F - 559.346.1071 excelsiorlighting.com

DOWNLIGHT
SCALE: NTS