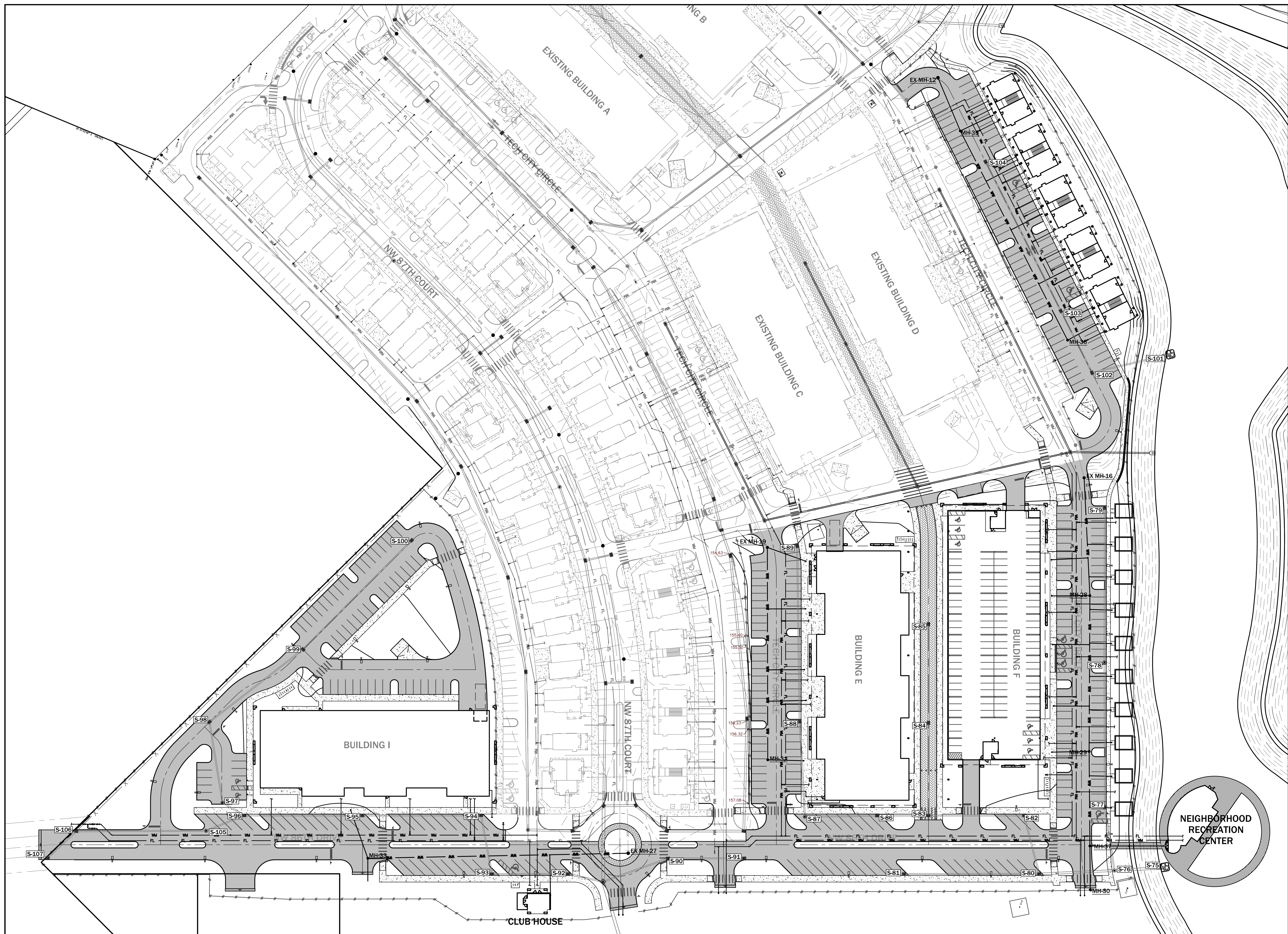
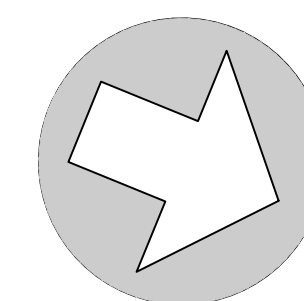




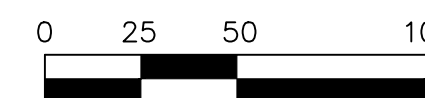
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Professional Engineer of Record:

Claudia S. Vega, P.E.	51532
Engineer	Certificate No.

Project No: 21-087

Project phase:

CONSTRUCTION PLANS

Project title:

SAN FELASCO TECH CITY
PHASE 4 SITE PLAN
CITY OF ALACHUA,
FLORIDA

Sheet title:

OVERALL UTILITY PLAN

Designed: CS

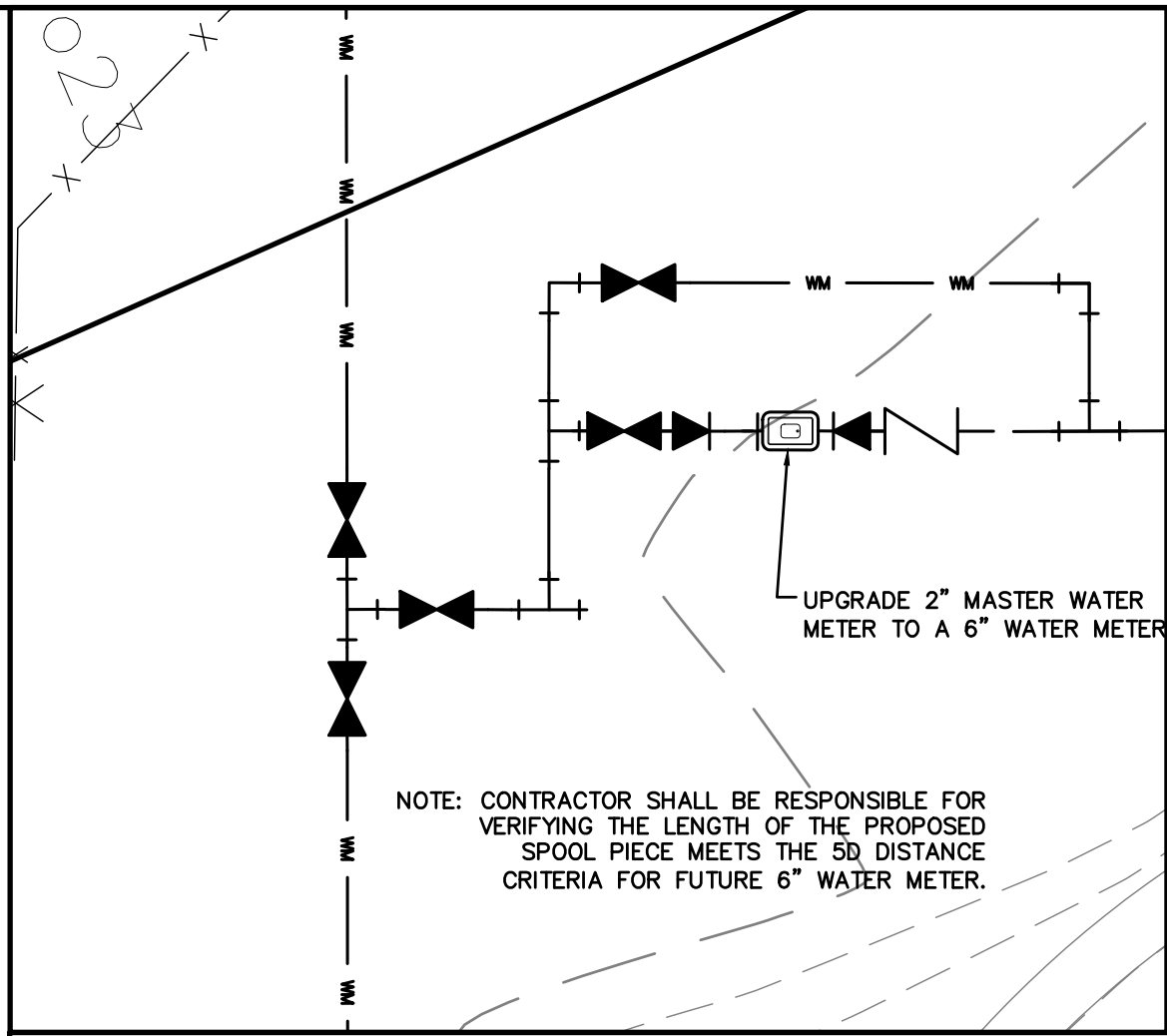
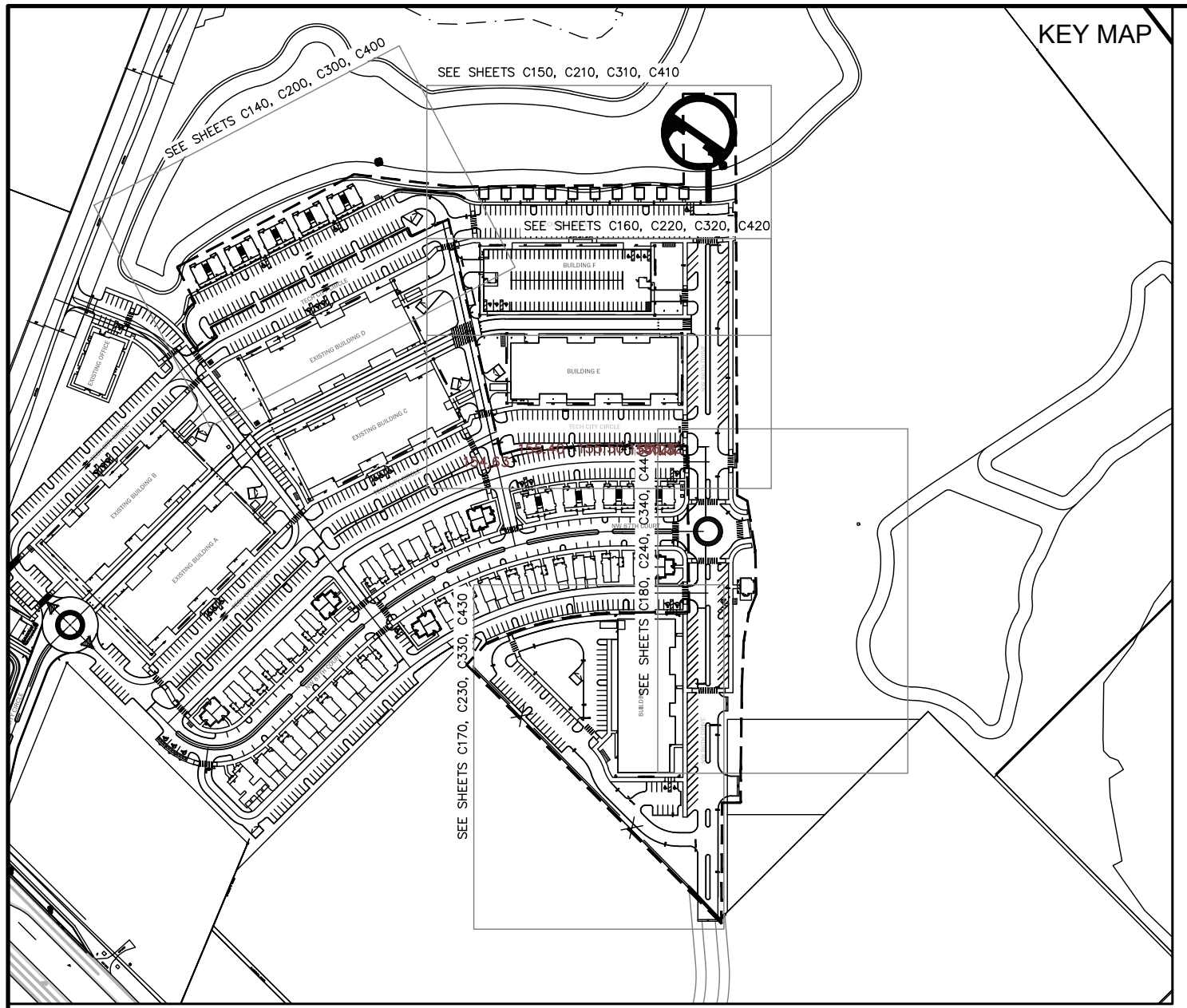
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Checked: DJ

Date: 06/23/2

Sheet No.:

C400

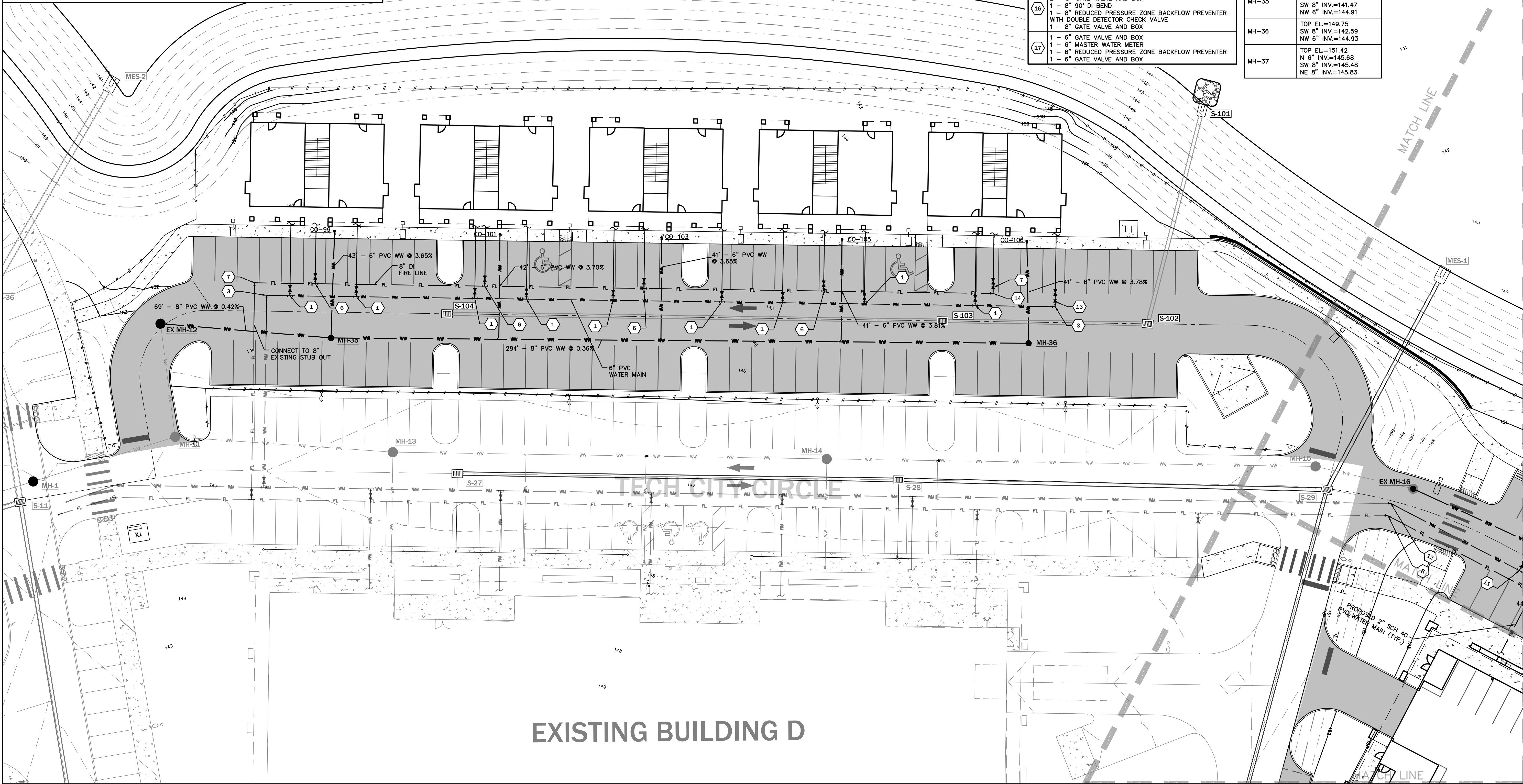


EXISTING MASTER WATER METER DETAIL

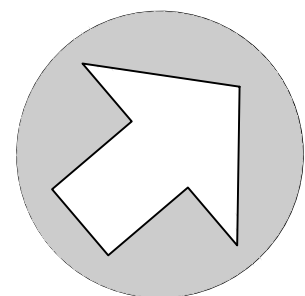
1	1 - 6" X 2" SADDLE 1 - 2" CORPORATION STOP 2" SCH 40 PVC WATER SERVICE
2	1 - 6" PVC TEE
3	1 - 6" 90° PVC BEND
4	6" PVC STUB AND 3" PVC BLOW-OFF ASSEMBLY FOR FUTURE WATERMAIN EXTENSION
5	1 - 8" DI TEE
6	1 - 8" X 3" DI TEE 1 - 3" GATE VALVE AND BOX 1 - 3" DIP FIRE LINE
7	1 - 8" 90° DI BEND
8	1 - 8" 22.5° DI BEND
9	1 - 8" 45° DI BEND
10	8" DI STUB AND 3" DI BLOW-OFF ASSEMBLY FOR FUTURE FIRE LINE EXTENSION
11	1 - 6" X 1" SADDLE 1 - 1" CORPORATION STOP 1" SCH 40 PVC WATERMAIN
12	1 - 6" 45° PVC BEND
13	1 - 6"x2" PVC REDUCER 1 - 2" CORPORATION STOP 2" SCH 40 PVC WATER SERVICE
14	1 - 8"x3" DI REDUCER 1 - 3" GATE VALVE AND BOX 3" DI FIRE LINE
15	1 - 8"x6" DI TEE 1 - 6" FIRE HYDRANT ASSEMBLY
16	1 - 8" DI TEE 2 - 8" GATE VALVE AND BOX 1 - 8" 90° DI BEND 1 - 8" REDUCED PRESSURE ZONE BACKFLOW PREVENTER WITH DOUBLE DETECTOR CHECK VALVE 1 - 8" GATE VALVE AND BOX
17	1 - 6" GATE VALVE AND BOX 1 - 6" MASTER WATER METER 1 - 6" REDUCED PRESSURE ZONE BACKFLOW PREVENTER 1 - 6" GATE VALVE AND BOX

WASTEWATER STRUCTURE SCHEDULE	
STRUCTURE	STRUCTURE DATA
CO-123	TOP EL.=149.00 S 6" INV.=146.21
CO-131	TOP EL.=148.00 N 6" INV.=145.96 S 6" INV.=145.96
EX MH-12	TOP EL.=152.35 NE 8" INV.=141.18
EX MH-16	TOP EL.=151.12 NE 8" INV.=143.50
EX MH-19	TOP EL.=153.06 E 8" INV.=142.40 N 6" INV.=146.42
EX MH-27	TOP EL.=158.50 SE 8" INV.=144.24
MH-28	TOP EL.=152.10 E 8" INV.=144.17 SW 8" INV.=144.07 S 6" INV.=146.55
MH-29	TOP EL.=151.90 W 8" INV.=144.92 NE 8" INV.=145.02 SE 8" INV.=146.60
MH-30	TOP EL.=149.81 SW 8" INV.=145.62
MH-31	TOP EL.=154.85 W 8" INV.=143.43 N 6" INV.=146.66
MH-33	TOP EL.=158.89 NW 8" INV.=145.50 E 6" INV.=145.60 SW 6" INV.=149.68
MH-35	TOP EL.=150.74 NE 8" INV.=141.57 SW 8" INV.=141.47 NW 6" INV.=144.91
MH-36	TOP EL.=149.75 SW 8" INV.=142.59 NW 6" INV.=144.93
MH-37	TOP EL.=151.42 N 6" INV.=145.68 SW 8" INV.=145.48 NE 8" INV.=145.83

WASTEWATER CLEANOUT SCHEDULE	
CLEANOUT	CLEANOUT DATA
CO-99	TOP EL.=150.96 INV.=146.50
CO-101	TOP EL.=150.95 INV.=146.50
CO-103	TOP EL.=150.94 INV.=146.50
CO-105	TOP EL.=150.95 INV.=146.50
CO-106	TOP EL.=150.96 INV.=146.50



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Professional Engineer of Record:

Claudia S. Vega, P.E. 51532
Engineer Certificate No.

Project No: 21-087

Project phase: CONSTRUCTION PLANS

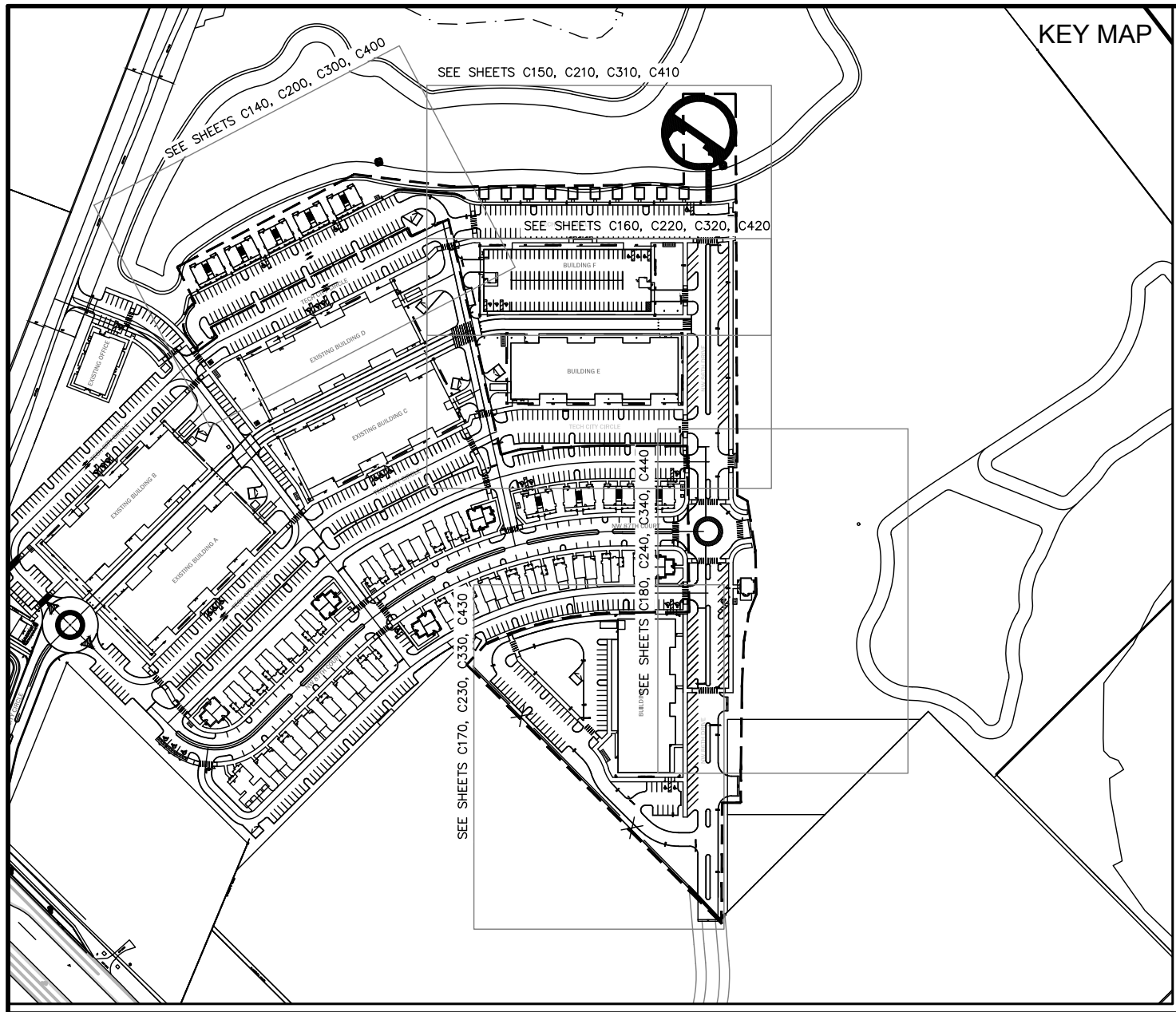
Project title:

SAN FELASCO TECH CITY
PHASE 4 SITE PLAN
CITY OF ALACHUA,
FLORIDA

Sheet title:

UTILITY PLAN (1 OF 5)

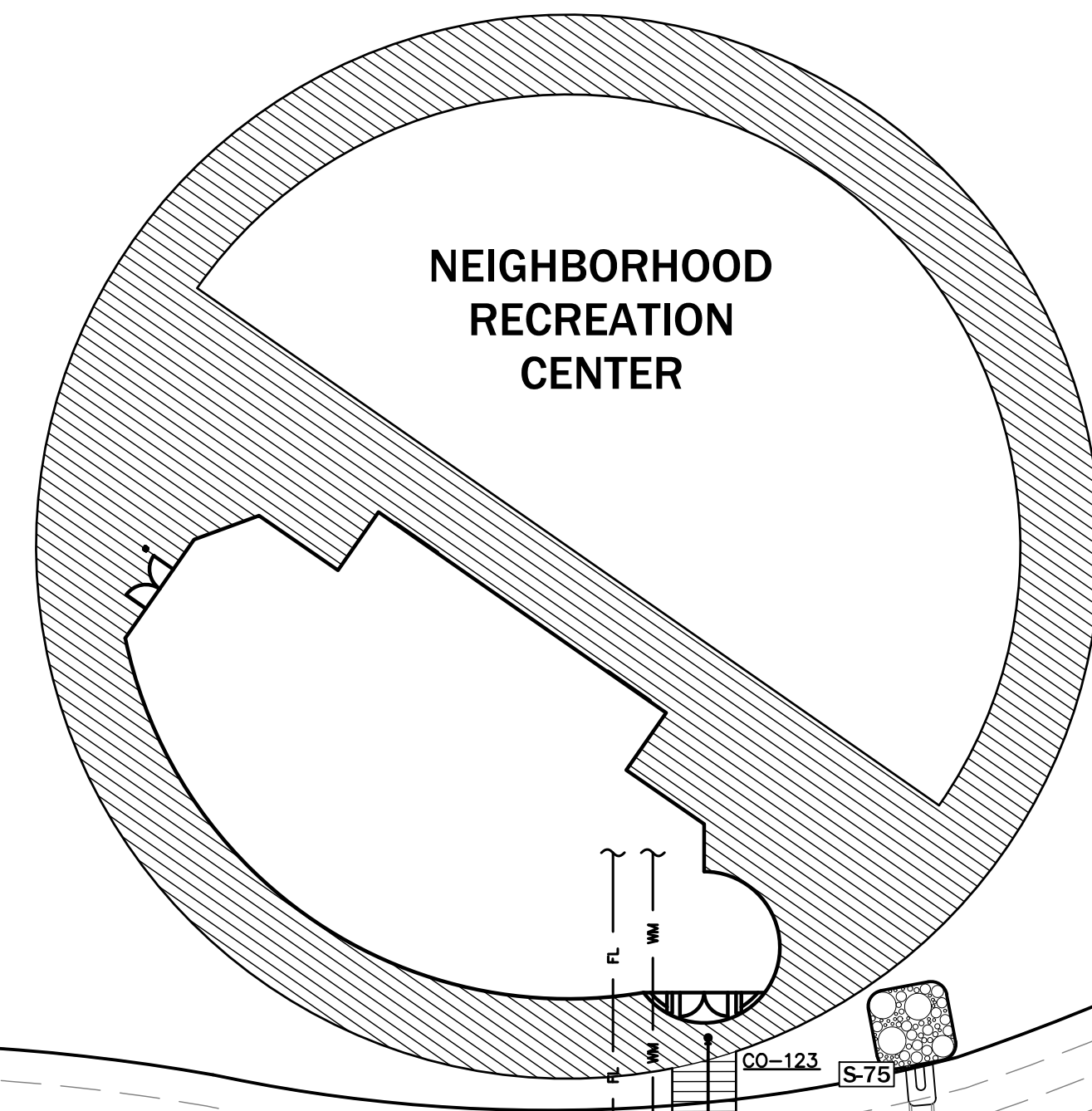
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Checked: DJM	
Date: 06/23/22	



WASTEWATER STRUCTURE SCHEDULE	
STRUCTURE	STRUCTURE DATA
CO-123	TOP EL.=149.00 S 6" INV.=146.21
CO-131	TOP EL.=148.00 N 6" INV.=145.96 S 6" INV.=145.96
EX MH-12	TOP EL.=152.35 NE 8" INV.=141.18
EX MH-16	TOP EL.=151.12 NE 8" INV.=143.50
EX MH-19	TOP EL.=153.06 E 8" INV.=142.40 N 6" INV.=146.42
EX MH-27	TOP EL.=158.50 SE 8" INV.=144.24
MH-28	TOP EL.=152.10 E 8" INV.=144.17 SW 8" INV.=144.07 S 6" INV.=146.55
MH-29	TOP EL.=151.90 W 8" INV.=144.92 NE 8" INV.=145.02 SE 6" INV.=146.60
MH-30	TOP EL.=149.81 SW 8" INV.=145.62
MH-31	TOP EL.=154.85 W 8" INV.=143.43 N 6" INV.=146.66
MH-33	TOP EL.=158.99 NW 8" INV.=145.50 E 6" INV.=145.60 SW 6" INV.=149.68
MH-35	TOP EL.=150.74 NE 8" INV.=141.57 SW 8" INV.=141.47 NW 6" INV.=144.91
MH-36	TOP EL.=149.75 SW 8" INV.=142.59 NW 6" INV.=144.93
MH-37	TOP EL.=151.42 N 6" INV.=145.68 SW 8" INV.=145.48 NE 8" INV.=145.83

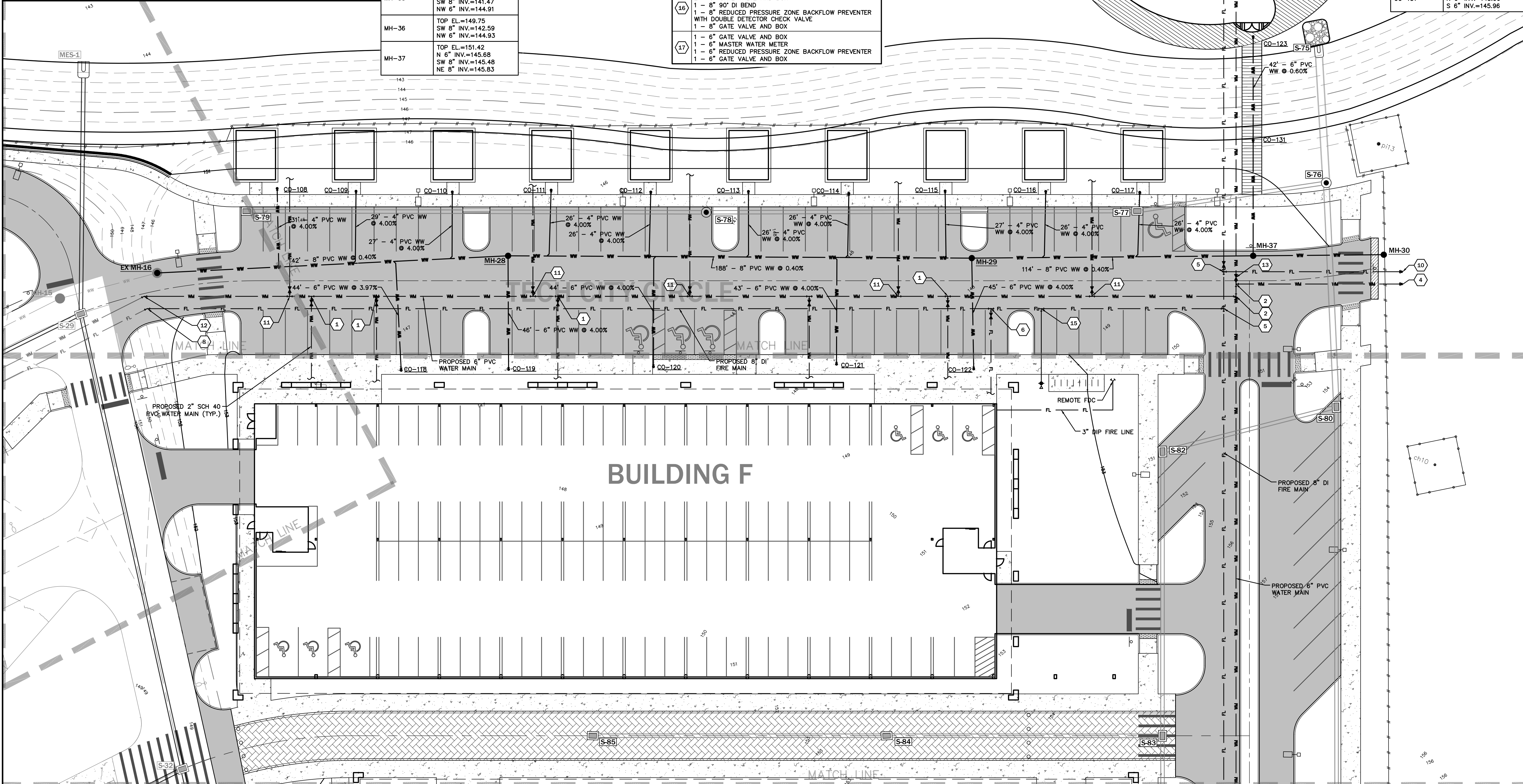
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STRUCTURE	STRUCTURE DATA
CO-108	TOP EL.=151.95 SE 4" INV.=146.50
CO-109	TOP EL.=151.93 S 4" INV.=146.50
CO-110	TOP EL.=151.92 S 4" INV.=146.50
CO-111	TOP EL.=151.94 S 4" INV.=146.50
CO-112	TOP EL.=151.92 S 4" INV.=146.50
CO-113	TOP EL.=151.93 S 4" INV.=146.50
CO-114	TOP EL.=151.91 S 4" INV.=146.50
CO-115	TOP EL.=151.93 SE 4" INV.=146.50
CO-116	TOP EL.=151.93 S 4" INV.=146.50
CO-117	TOP EL.=151.92 S 4" INV.=146.50

- 1 - 6" X 2" SADDLE
1 - 2" CORPORATION STOP
2" SCH 40 PVC WATER SERVICE
- 1 - 6" PVC TEE
- 1 - 6" 90° PVC BEND
- 6" PVC STUB AND 3" PVC BLOW-OFF ASSEMBLY FOR FUTURE WATERMAIN EXTENSION
- 1 - 8" DI TEE
- 1 - 8" X 3" DI TEE
1 - 3" GATE VALVE AND BOX
1 - 3" DIP FIRE LINE
- 1 - 8" 90° DI BEND
- 1 - 8" 22.5° DI BEND
- 1 - 8" 45° DI BEND
- 8" DI STUB AND 3" DI BLOW-OFF ASSEMBLY FOR FUTURE FIRE LINE EXTENSION
- 1 - 6" X 1" SADDLE
1 - 1" CORPORATION STOP
1" SCH 40 PVC WATERMAIN
- 1 - 6" 45° PVC BEND
- 1 - 6"x2" PVC REDUCER
1 - 2" CORPORATION STOP
2" SCH 40 PVC WATER SERVICE
- 1 - 8"x3" DI REDUCER
1 - 3" GATE VALVE AND BOX
3" DI FIRE LINE
- 1 - 8"x6" DI TEE
1 - 6" FIRE HYDRANT ASSEMBLY
- 1 - 8" DI TEE
2 - 8" GATE VALVE AND BOX
1 - 8" 90° DI BEND
1 - 8" REDUCED PRESSURE ZONE BACKFLOW PREVENTER WITH DOUBLE DETECTOR CHECK VALVE
1 - 8" GATE VALVE AND BOX
- 1 - 6" GATE VALVE AND BOX
1 - 6" MASTER WATER METER
1 - 6" REDUCED PRESSURE ZONE BACKFLOW PREVENTER
1 - 6" GATE VALVE AND BOX

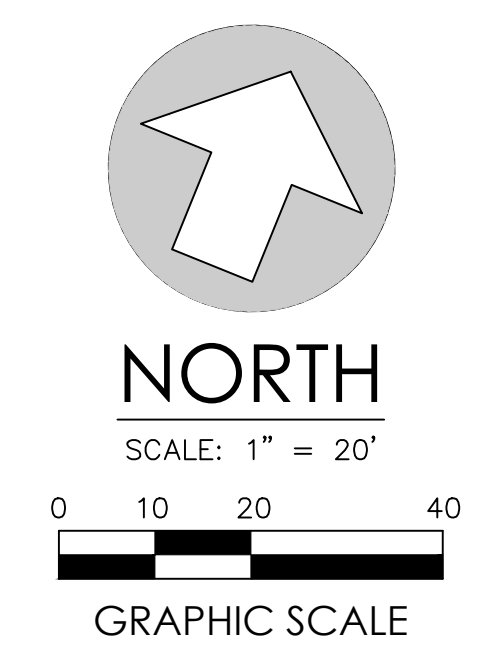


WASTEWATER STRUCTURE SCHEDULE	
STRUCTURE	STRUCTURE DATA
CO-118	TOP EL.=153.63 NW 6" INV.=148.40
CO-119	TOP EL.=153.62 N 6" INV.=148.40
CO-120	TOP EL.=153.60 N 6" INV.=148.40
CO-121	TOP EL.=153.58 N 6" INV.=148.40
CO-122	TOP EL.=153.62 NW 6" INV.=148.40
CO-123	TOP EL.=149.00 S 6" INV.=146.21
CO-124	TOP EL.=153.46 S 6" INV.=148.40
CO-125	TOP EL.=153.52 S 6" INV.=148.40
CO-126	TOP EL.=153.53 S 6" INV.=148.40
CO-127	TOP EL.=153.62 SE 6" INV.=148.40

WASTEWATER STRUCTURE SCHEDULE	
STRUCTURE	STRUCTURE DATA
CO-128	TOP EL.=153.63 S 6" INV.=148.40
CO-129	TOP EL.=158.25 SW 4" INV.=153.25
CO-130	TOP EL.=159.25 NE 6" INV.=154.00
CO-131	TOP EL.=148.00 N 6" INV.=145.96 S 6" INV.=145.96



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Professional Engineer of Record:

Claudia S. Vega, P.E. 51532
Engineer Certificate No.

Project No: 21-087

Project phase:

CONSTRUCTION PLANS

Project title:

SAN FELASCO TECH CITY
PHASE 4 SITE PLAN
CITY OF ALACHUA,
FLORIDA

Sheet title:

UTILITY PLAN (2 OF 5)

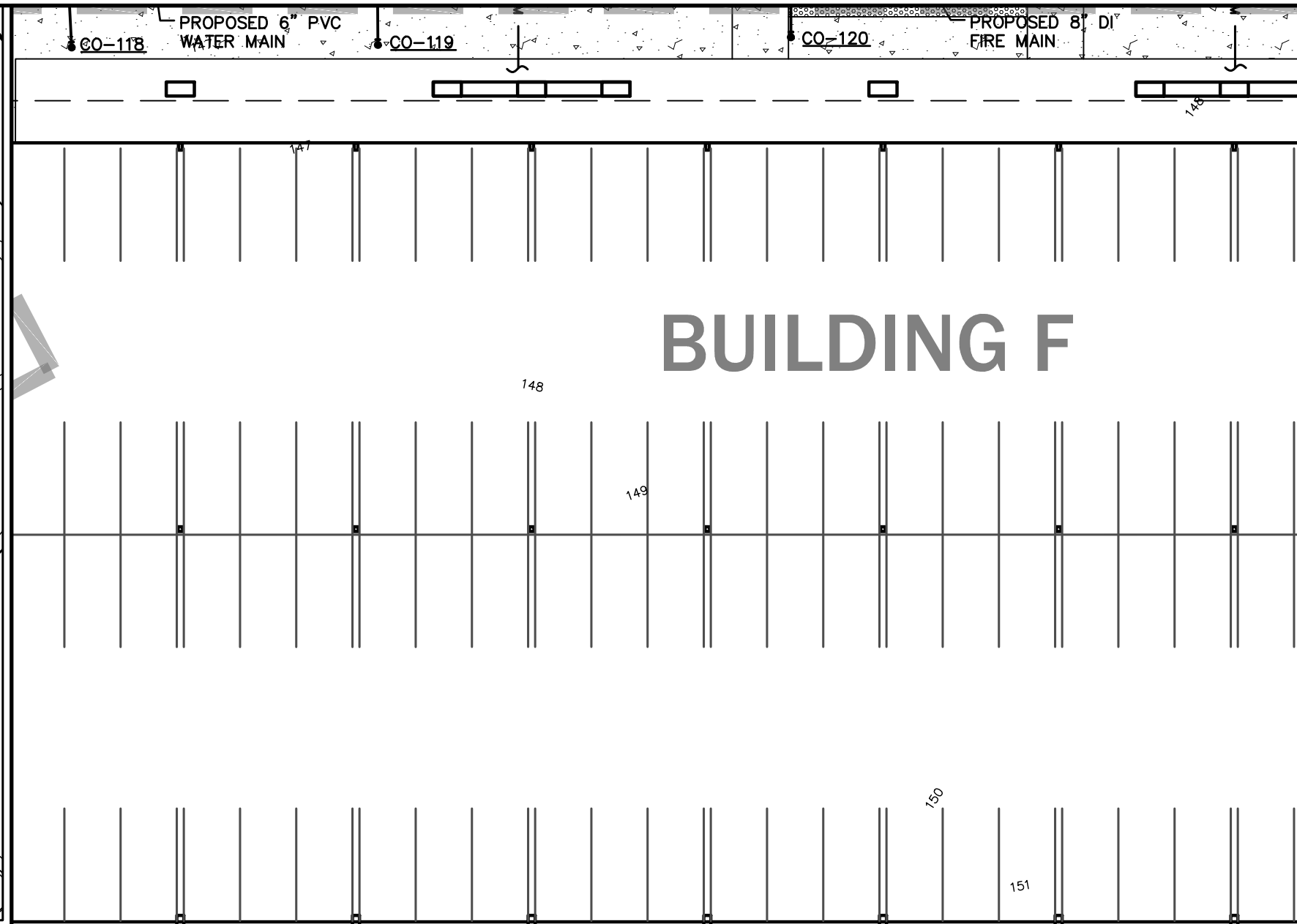
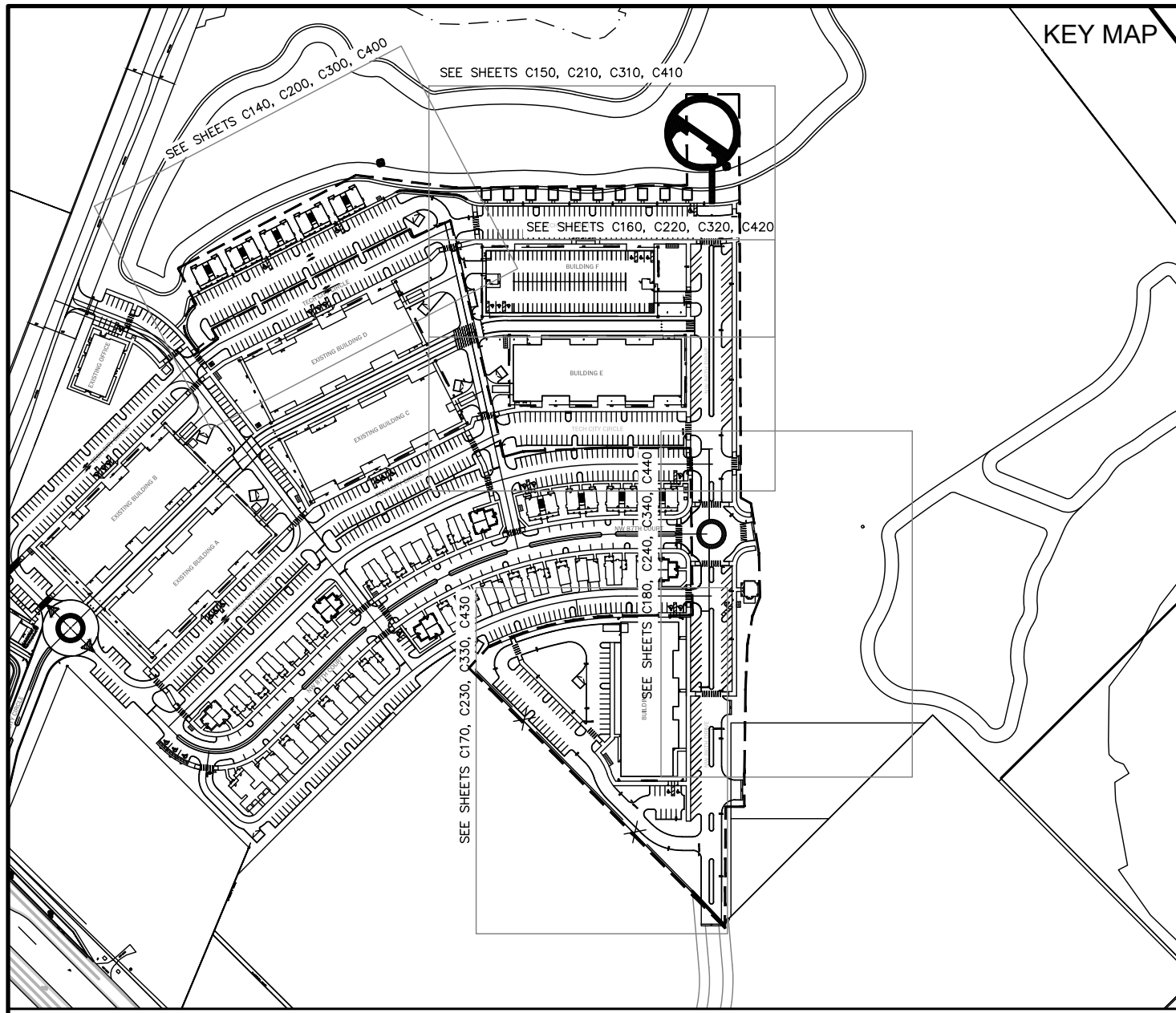
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Checked: DJM

Date: 06/23/22

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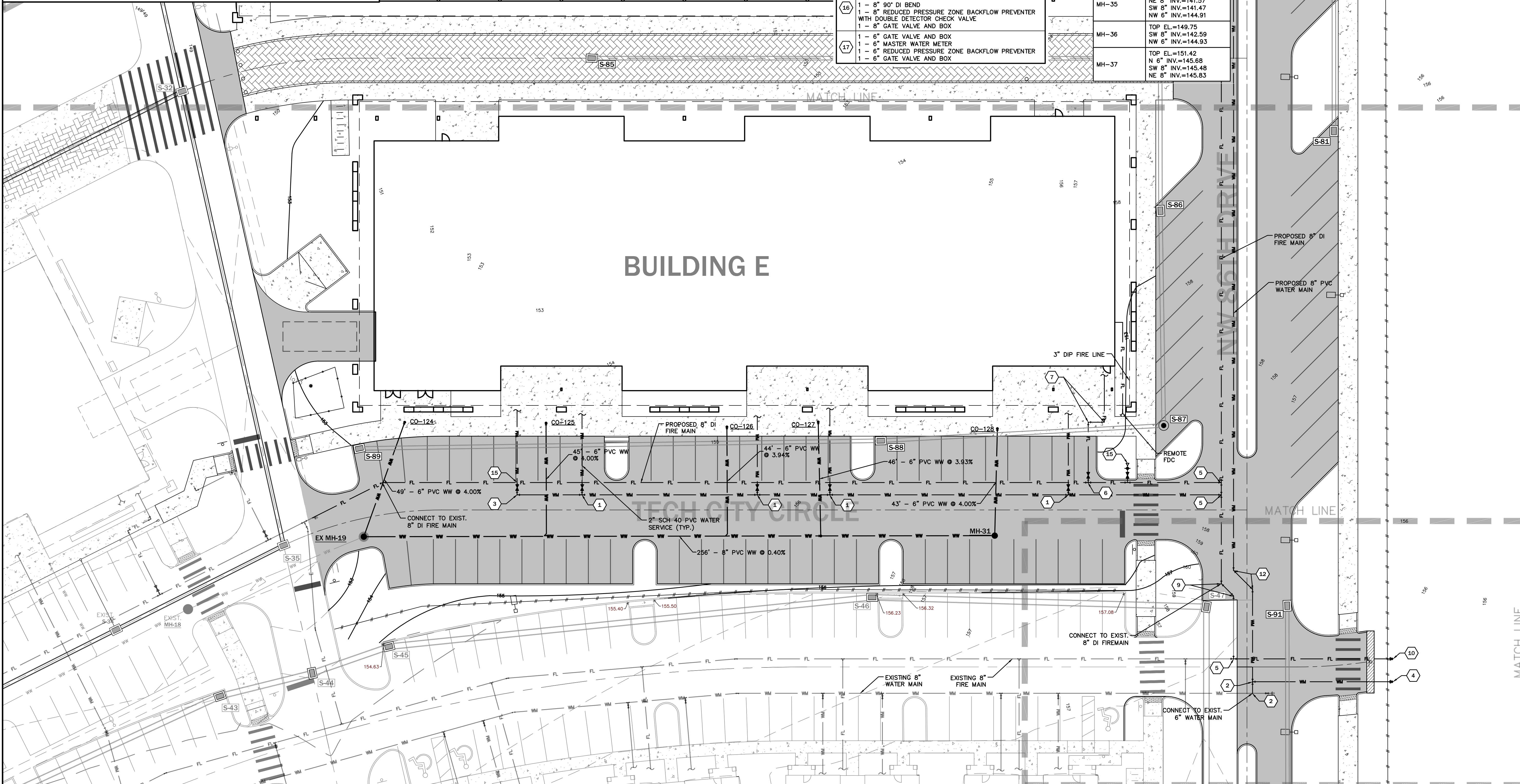


- 1 - 6" X 2" SADDLE
- 1 - 2" CORPORATION STOP
- 2" SCH 40 PVC WATER SERVICE
- 1 - 6" PVC TEE
- 1 - 6" 90° PVC BEND
- 6" PVC STUB AND 3" PVC BLOW-OFF ASSEMBLY FOR FUTURE WATERMAIN EXTENSION
- 1 - 8" DI TEE
- 1 - 8" X 3" DI TEE
- 1 - 3" GATE VALVE AND BOX
- 1 - 3" DIP FIRE LINE
- 1 - 8" 90° DI BEND
- 1 - 8" 22.5° DI BEND
- 1 - 8" 45° DI BEND
- 8" DI STUB AND 3" DI BLOW-OFF ASSEMBLY FOR FUTURE FIRE LINE EXTENSION
- 1 - 6" X 1" SADDLE
- 1 - 1" CORPORATION STOP
- 1" SCH 40 PVC WATERMAIN
- 1 - 6" 45° PVC BEND
- 1 - 6"x2" PVC REDUCER
- 1 - 2" CORPORATION STOP
- 2" SCH 40 PVC WATER SERVICE
- 1 - 6"x3" DI REDUCER
- 1 - 3" GATE VALVE AND BOX
- 3" DI FIRE LINE
- 1 - 8"x6" DI TEE
- 1 - 6" FIRE HYDRANT ASSEMBLY
- 1 - 8" DI TEE
- 2 - 8" GATE VALVE AND BOX
- 1 - 8" 90° DI BEND
- 1 - 8" REDUCED PRESSURE ZONE BACKFLOW PREVENTER WITH DOUBLE DETECTOR CHECK VALVE
- 1 - 8" GATE VALVE AND BOX
- 1 - 6" GATE VALVE AND BOX
- 1 - 6" MASTER WATER METER
- 1 - 6" REDUCED PRESSURE ZONE BACKFLOW PREVENTER
- 1 - 6" GATE VALVE AND BOX

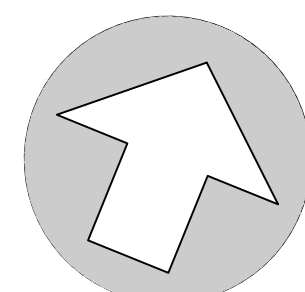
WASTEWATER STRUCTURE SCHEDULE	
STRUCTURE	STRUCTURE DATA
CO-123	TOP EL.=149.00 S 6" INV.=146.21
CO-131	TOP EL.=148.00 N 6" INV.=145.96 S 6" INV.=145.96
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EX MH-16	TOP EL.=151.12 NE 8" INV.=143.50
EX MH-19	TOP EL.=153.06 E 8" INV.=142.40 N 6" INV.=146.42
EX MH-27	TOP EL.=158.50 SE 8" INV.=144.24
MH-28	TOP EL.=152.10 E 8" INV.=144.17 SW 8" INV.=144.07 S 6" INV.=146.55
MH-29	TOP EL.=151.90 W 8" INV.=144.92 NE 8" INV.=145.02 SE 6" INV.=146.60
MH-30	TOP EL.=149.81 SW 8" INV.=145.62
MH-31	TOP EL.=154.85 W 8" INV.=143.43 N 6" INV.=146.66
MH-33	TOP EL.=158.99 NW 8" INV.=145.50 E 8" INV.=145.60 SW 6" INV.=149.68
MH-35	TOP EL.=150.74 NE 8" INV.=141.57 SW 8" INV.=141.47 NW 6" INV.=144.91
MH-36	TOP EL.=149.75 SW 8" INV.=142.59 NW 6" INV.=144.93
MH-37	TOP EL.=151.42 N 6" INV.=145.68 SW 8" INV.=145.48 NE 8" INV.=145.83

WASTEWATER STRUCTURE SCHEDULE	
STRUCTURE	STRUCTURE DATA
CO-118	TOP EL.=153.63 NW 6" INV.=148.40
CO-119	TOP EL.=153.62 N 6" INV.=148.40
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CO-121	TOP EL.=153.58 N 6" INV.=148.40
CO-122	TOP EL.=153.62 NW 6" INV.=148.40
CO-123	TOP EL.=149.00 S 6" INV.=146.21
CO-124	TOP EL.=153.46 S 6" INV.=148.40
CO-125	TOP EL.=153.52 S 6" INV.=148.40
CO-126	TOP EL.=153.53 S 6" INV.=148.40
CO-127	TOP EL.=153.62 SE 6" INV.=148.40

WASTEWATER STRUCTURE SCHEDULE	
STRUCTURE	STRUCTURE DATA
CO-128	TOP EL.=153.63 S 6" INV.=148.40
CO-129	TOP EL.=158.25 SW 4" INV.=153.25
CO-130	TOP EL.=159.25 NE 6" INV.=154.00
CO-131	TOP EL.=148.00 N 6" INV.=145.96 S 6" INV.=145.96



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Professional Engineer of Record:

Claudia S. Vega, P.E. 51532
Engineer Certificate No.

Project No: 21-087

Project phase: CONSTRUCTION PLANS

Project title:

SAN FELASCO TECH CITY
PHASE 4 SITE PLAN
CITY OF ALACHUA,
FLORIDA

Sheet title:

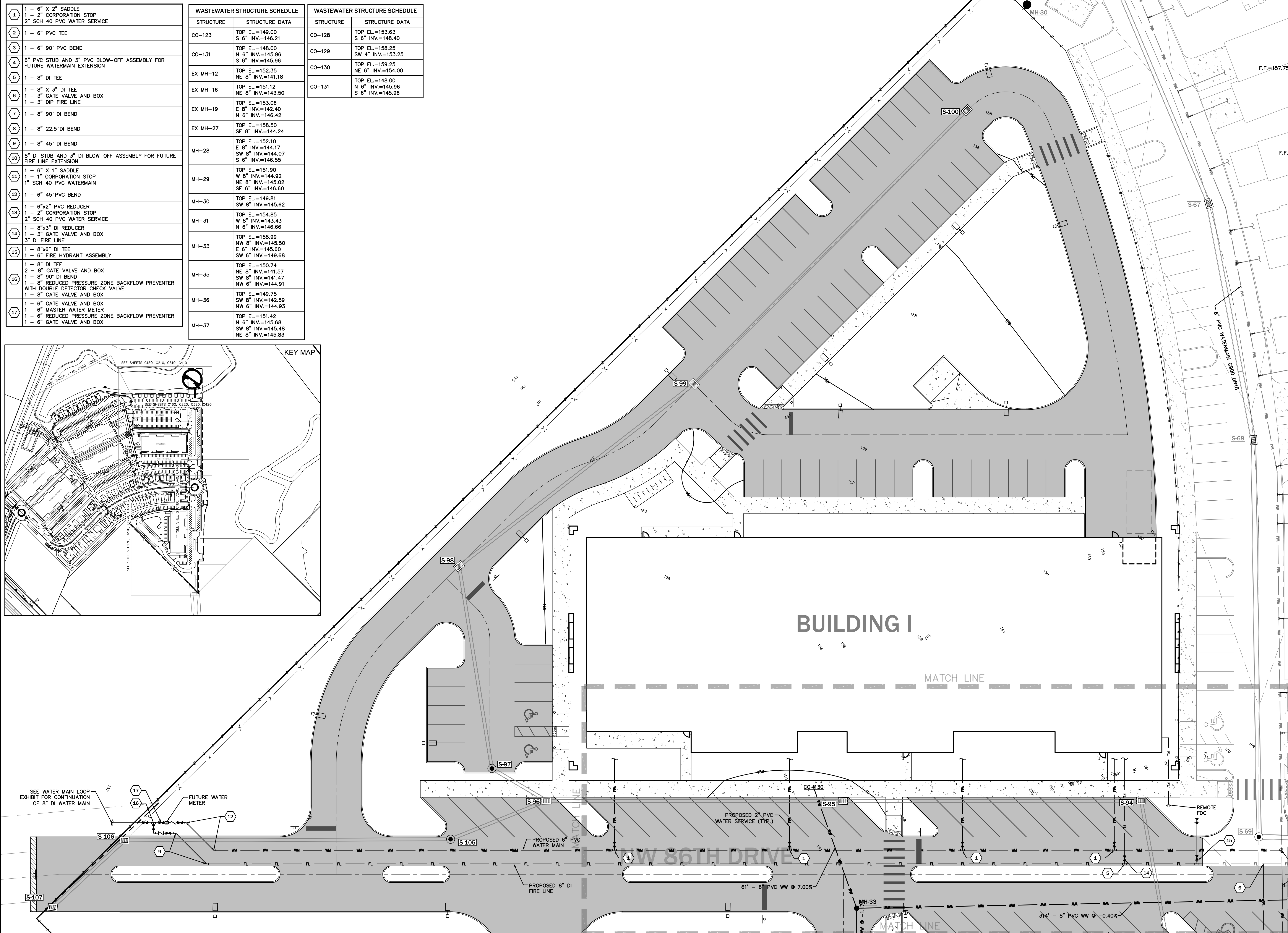
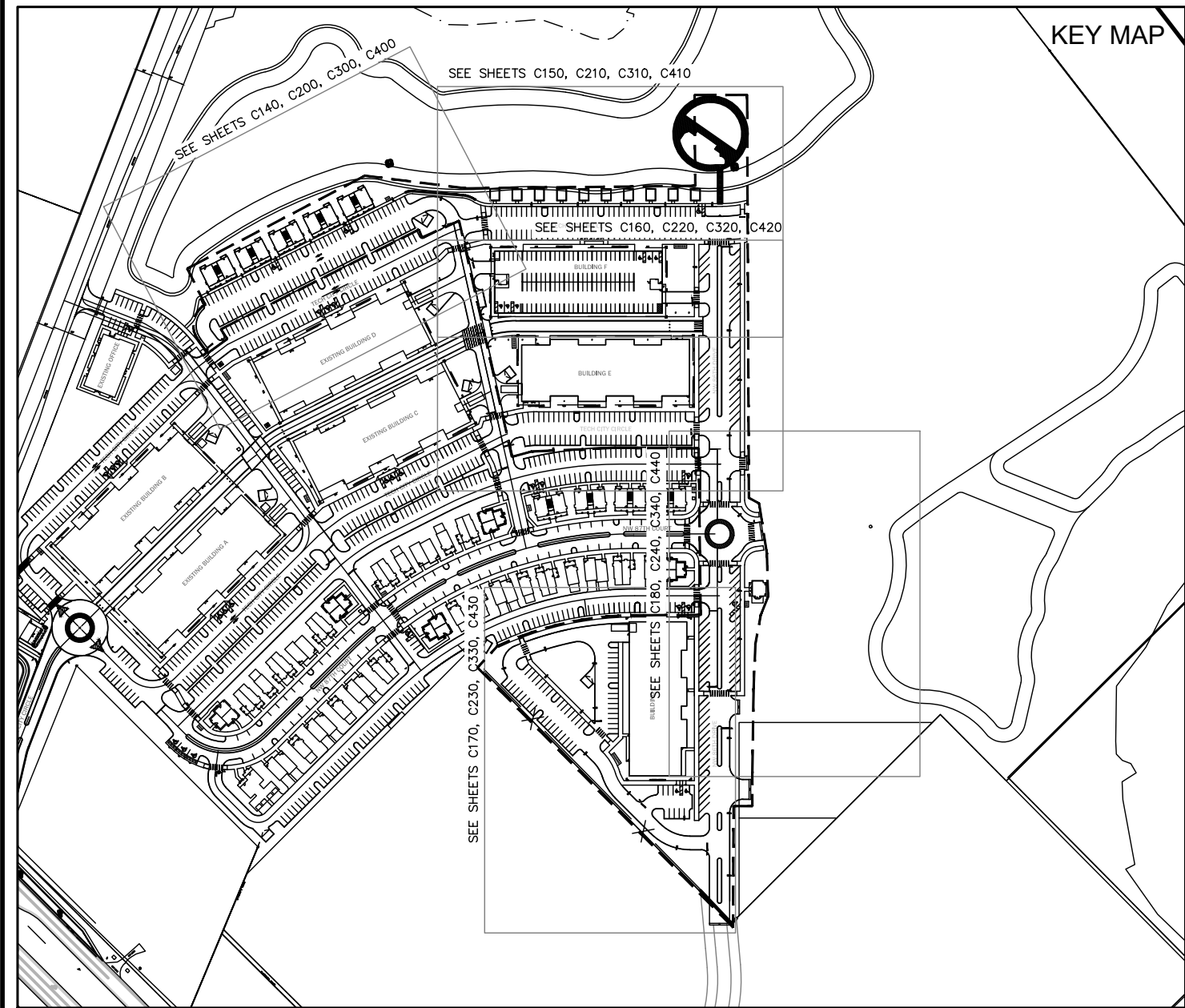
UTILITY PLAN (3 OF 5)

Designed: CSV Sheet No:
Drawn: MAB
Checked: DJM
Date: 06/23/22
C430

1	1 - 6" X 2" SADDLE
2	1 - 2" CORPORATION STOP
3	2" SCH 40 PVC WATER SERVICE
4	1 - 6" PVC TEE
5	1 - 6" 90° PVC BEND
6	6" PVC STUB AND 3" PVC BLOW-OFF ASSEMBLY FOR FUTURE WATERMAIN EXTENSION
7	1 - 8" DI TEE
8	1 - 8" X 3" DI TEE
9	1 - 3" GATE VALVE AND BOX
10	1 - 3" DIP FIRE LINE
11	1 - 8" 90° DI BEND
12	1 - 8" 22.5° DI BEND
13	1 - 8" 45° DI BEND
14	8" DI STUB AND 3" DI BLOW-OFF ASSEMBLY FOR FUTURE FIRE LINE EXTENSION
15	1 - 6" X 1" SADDLE
16	1 - 1" CORPORATION STOP
17	1" SCH 40 PVC WATERMAIN
18	1 - 6" 45° PVC BEND
19	1 - 6"x2" PVC REDUCER
20	1 - 2" CORPORATION STOP
21	2" SCH 40 PVC WATER SERVICE
22	1 - 8"x3" DI REDUCER
23	1 - 3" GATE VALVE AND BOX
24	3" DI FIRE LINE
25	1 - 8"x6" DI TEE
26	1 - 6" FIRE HYDRANT ASSEMBLY
27	1 - 8" DI TEE
28	2 - 8" GATE VALVE AND BOX
29	1 - 8" 90° DI BEND
30	1 - 8" REDUCED PRESSURE ZONE BACKFLOW PREVENTER WITH DOUBLE DETECTOR CHECK VALVE
31	1 - 8" GATE VALVE AND BOX
32	1 - 6" GATE VALVE AND BOX
33	1 - 8" MASTER WATER METER
34	1 - 8" REDUCED PRESSURE ZONE BACKFLOW PREVENTER
35	1 - 6" GATE VALVE AND BOX

WASTEWATER STRUCTURE SCHEDULE	
STRUCTURE	STRUCTURE DATA
CO-123	TOP EL.=149.00 S 6" INV.=146.21
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WASTEWATER STRUCTURE SCHEDULE	
STRUCTURE	STRUCTURE DATA
CO-128	TOP EL.=153.63 S 6" INV.=148.40
CO-129	TOP EL.=158.25 SW 4" INV.=153.25
CO-130	TOP EL.=159.25 NE 6" INV.=154.00
CO-131	TOP EL.=148.00 N 6" INV.=145.96 S 6" INV.=145.96



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NORTH

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0 10 20 40

GRAPHIC SCALE

No.	Date	Comment

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Engineer Certificate No.

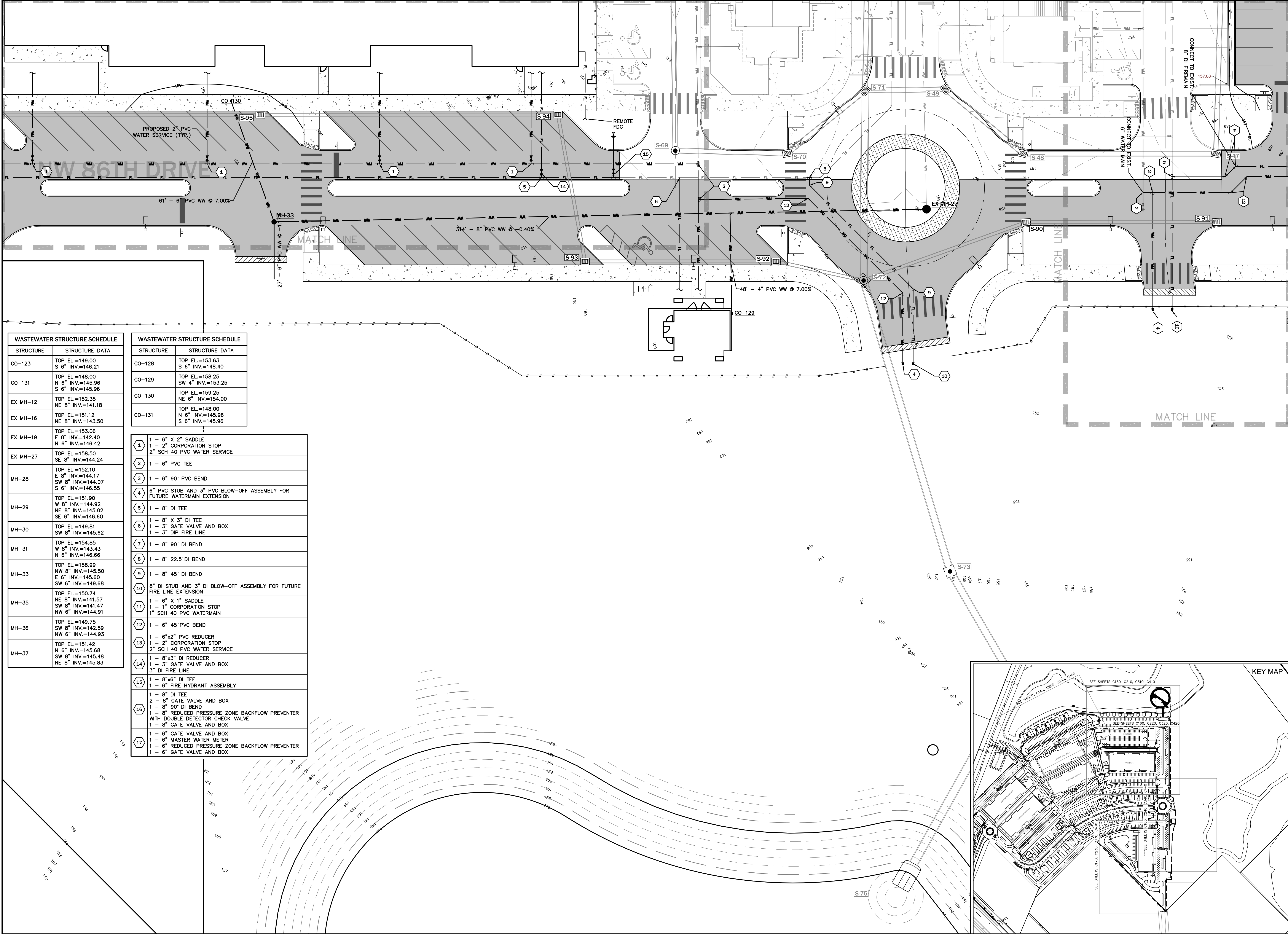
Project No: 21-087

Project phase:
CONSTRUCTION PLANS

Project title:
SAN FELASCO TECH CITY
PHASE 4 SITE PLAN
CITY OF ALACHUA,
FLORIDA

Sheet title:
UTILITY PLAN (4 OF 5)

Designed: CSV	Sheet No:
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Checked: DJM	
Date: 06/23/22	



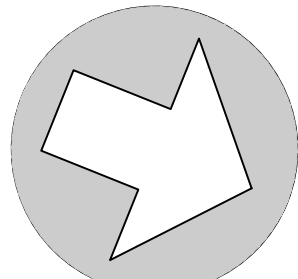
WASTEWATER STRUCTURE SCHEDULE	
STRUCTURE	STRUCTURE DATA
CO-123	TOP EL.=149.00 S 6" INV.=146.21
CO-131	TOP EL.=148.00 N 6" INV.=145.96 S 6" INV.=145.96
EX MH-12	TOP EL.=152.35 NE 8" INV.=141.18
EX MH-16	TOP EL.=151.12 NE 8" INV.=143.50
EX MH-19	TOP EL.=153.06 E 8" INV.=142.40 N 6" INV.=146.42
EX MH-27	TOP EL.=158.50 SE 8" INV.=144.24
MH-28	TOP EL.=152.10 E 8" INV.=144.17 SW 8" INV.=144.07 S 6" INV.=146.55
MH-29	TOP EL.=151.90 W 8" INV.=144.92 NE 8" INV.=145.02 SE 6" INV.=146.60
MH-30	TOP EL.=149.81 SW 8" INV.=145.62
MH-31	TOP EL.=154.85 W 8" INV.=143.43 N 6" INV.=146.66
MH-33	TOP EL.=158.99 NW 8" INV.=145.50 E 6" INV.=145.60 SW 6" INV.=149.68
MH-35	TOP EL.=150.74 NE 8" INV.=141.57 SW 8" INV.=141.47 NW 6" INV.=144.91
MH-36	TOP EL.=149.75 SW 8" INV.=142.59 NW 6" INV.=144.93
MH-37	TOP EL.=151.42 N 6" INV.=145.68 SW 8" INV.=145.48 NE 8" INV.=145.83

WASTEWATER STRUCTURE SCHEDULE	
STRUCTURE	STRUCTURE DATA
CO-128	TOP EL.=153.63 S 6" INV.=148.40
CO-129	TOP EL.=158.25 SW 4" INV.=153.25
CO-130	TOP EL.=159.25 NE 6" INV.=154.00
CO-131	TOP EL.=148.00 N 6" INV.=145.96 S 6" INV.=145.96

1	1 - 6" X 2" SADDLE 1 - 2" CORPORATION STOP 2" SCH 40 PVC WATER SERVICE
2	1 - 6" PVC TEE
3	1 - 6" 90° PVC BEND
4	6" PVC STUB AND 3" PVC BLOW-OFF ASSEMBLY FOR FUTURE WATERMAIN EXTENSION
5	1 - 8" DI TEE
6	1 - 8" X 3" DI TEE 1 - 3" GATE VALVE AND BOX 1 - 3" DIP FIRE LINE
7	1 - 8" 90° DI BEND
8	1 - 8" 22.5° DI BEND
9	1 - 8" 45° DI BEND
10	8" DI STUB AND 3" DI BLOW-OFF ASSEMBLY FOR FUTURE FIRE LINE EXTENSION
11	1 - 6" X 1" SADDLE 1 - 1" CORPORATION STOP 1" SCH 40 PVC WATERMAIN
12	1 - 6" 45° PVC BEND
13	1 - 6"x2" PVC REDUCER 1 - 2" CORPORATION STOP 2" SCH 40 PVC WATER SERVICE
14	1 - 8"x3" DI REDUCER 1 - 3" GATE VALVE AND BOX 3" DI FIRE LINE
15	1 - 8"x6" DI TEE 1 - 6" FIRE HYDRANT ASSEMBLY
16	1 - 8" DI TEE 2 - 8" GATE VALVE AND BOX 1 - 8" 90° DI BEND 1 - 8" REDUCED PRESSURE ZONE BACKFLOW PREVENTER WITH DOUBLE DETECTOR CHECK VALVE 1 - 8" GATE VALVE AND BOX
17	1 - 6" GATE VALVE AND BOX 1 - 6" MASTER WATER METER 1 - 6" REDUCED PRESSURE ZONE BACKFLOW PREVENTER 1 - 6" GATE VALVE AND BOX



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NORTH

SCALE: 1" = 20'



GRAPHIC SCALE

No.	Date	Comment

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Professional Engineer of Record:

Claudia S. Vega, P.E. 51532
Engineer Certificate No.

Project No: 21-087

Project phase: CONSTRUCTION PLANS

Project title:

SAN FELASCO TECH CITY
PHASE 4 SITE PLAN
CITY OF ALACHUA,
FLORIDA

Sheet title:

UTILITY PLAN (5 OF 5)

Designed: CSV

Drawn: MAB

Checked: DJM

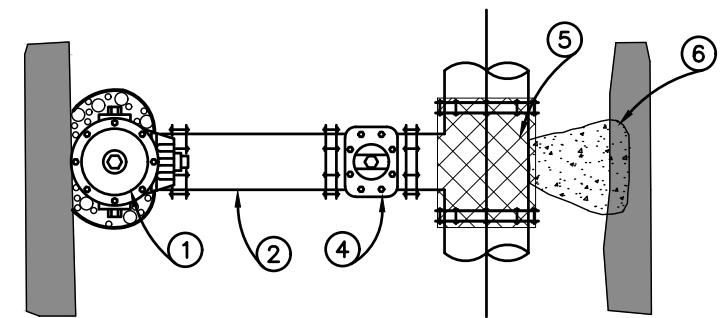
Date: 06/23/22

Sheet No.:

C450

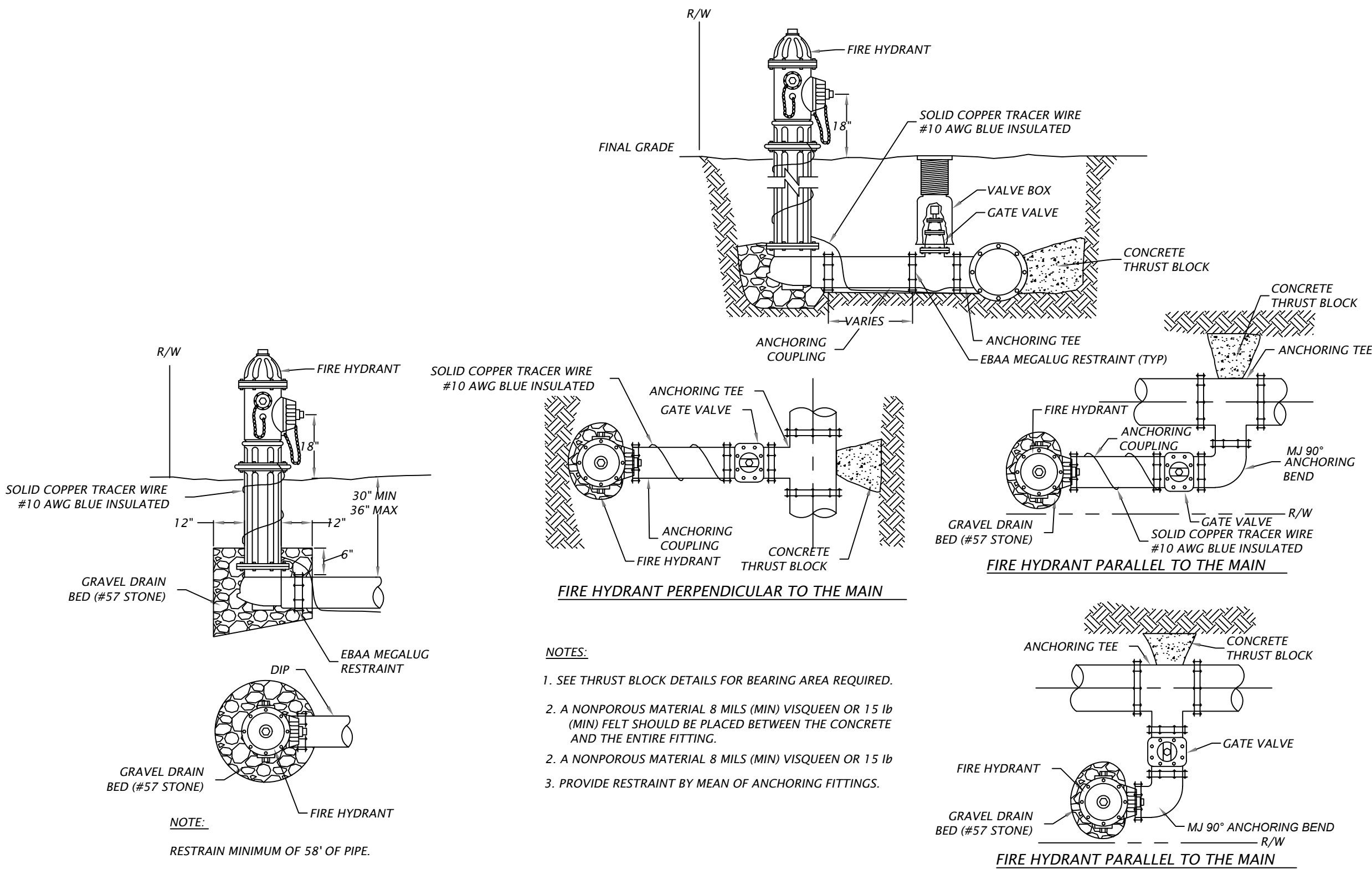
GENERAL UTILITY NOTES

- CONTRACTOR IS RESPONSIBLE FOR PROTECTION AND VERIFICATION OF EXISTING UTILITIES. ANY EXISTING UTILITY TO BE MODIFIED SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY PROVIDER.
- WATER METER ASSEMBLIES SHALL BE INSTALLED BY CONTRACTOR.
- ELECTRIC SERVICE TO BE COORDINATED WITH THE CITY OF ALACHUA PUBLIC SERVICES DEPARTMENT.
- UTILITY INSTALLATION SHALL NOT TAKE PLACE WITHIN TREE BARRICADE AREA AS SHOWN ON THE PAVING, GRADING AND DRAINAGE PLAN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF UNSUITABLE MATERIALS OFF-SITE AND FURNISH APPROVED MATERIAL PER CITY OF GAINESVILLE FOR SANITARY SEWER LINES BACKFILL AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR MAY DISPOSE OF UNSUITABLE MATERIAL ON-SITE BY APPROVAL OF THE OWNER.
- NO PERMANENT STRUCTURE SHALL BE CONSTRUCTED WITHIN 10 FEET OF ANY WATER LINE OR 15 FEET OF ANY SEWER LINE.
- CONTRACTOR SHALL PROTECT LANDSCAPE AND ANY DISTURBED AREAS SHALL BE RESTORED AS EXISTING.



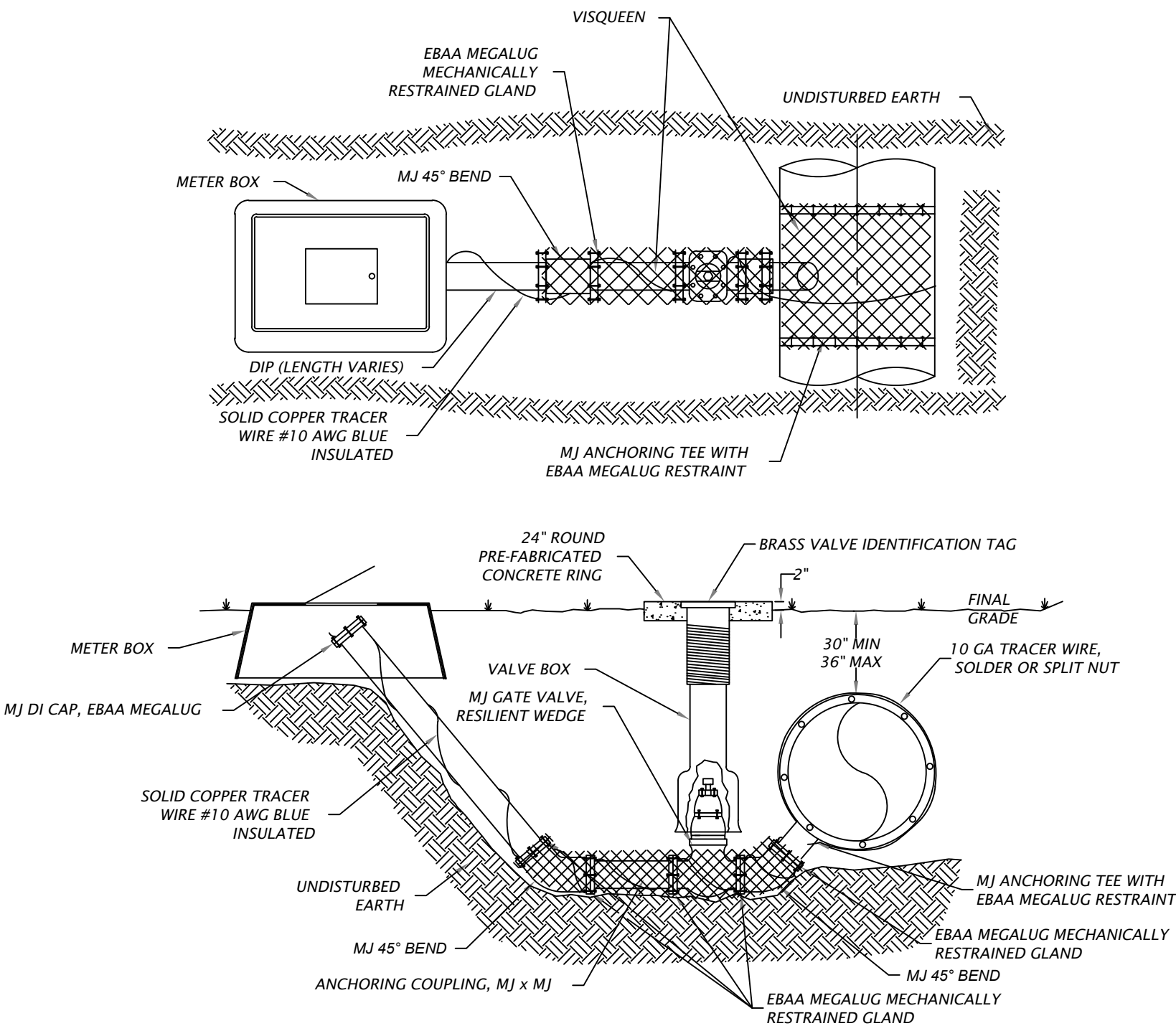
M A T E R I A L S	
ITEM	DESCRIPTION
1	FIRE HYDRANT
2	ANCHORING COUPLING
3	VALVE BOX
4	GATE VALVE
5	ANCHORING TEE
6	CONCRETE THRUST BLOCK (2500 psi)
7	GRAVEL DRAIN BED
8	TRACER WIRE
9	ANCHORING, 90° BEND, M.J.

- NOTES:
- A NONPOROUS MATERIAL 8 MILS (MIN.) VISQUEEN OR 15 lb FELT SHOULD BE PLACED BETWEEN THE CONCRETE AND ENTIRE FITTINGS.

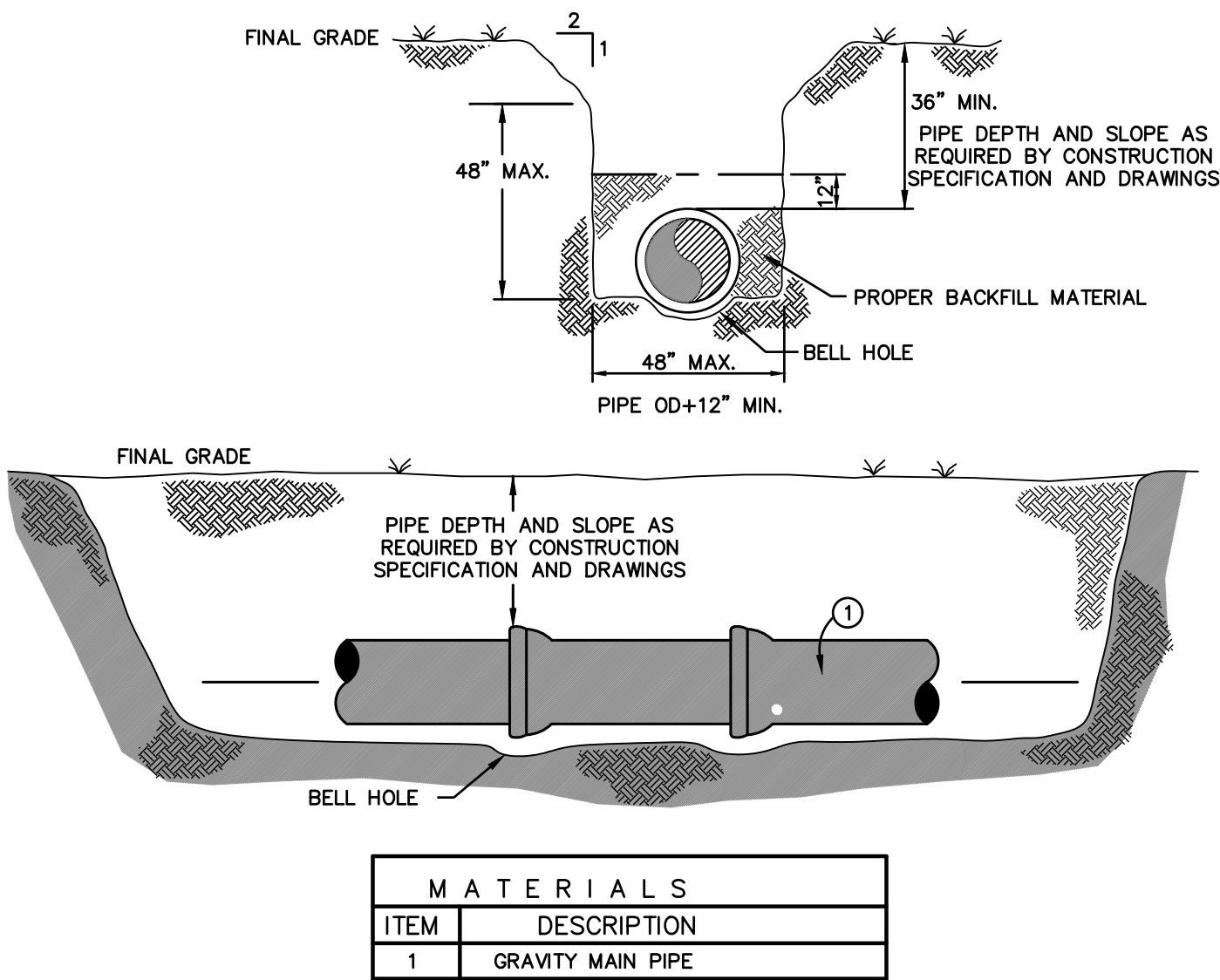


DETAIL No. 205 - FIRE HYDRANT (DEAD END)
N.T.S.

DETAIL No. 210 - FIRE HYDRANT (PERPENDICULAR/PARALLEL TO MAIN)
N.T.S.



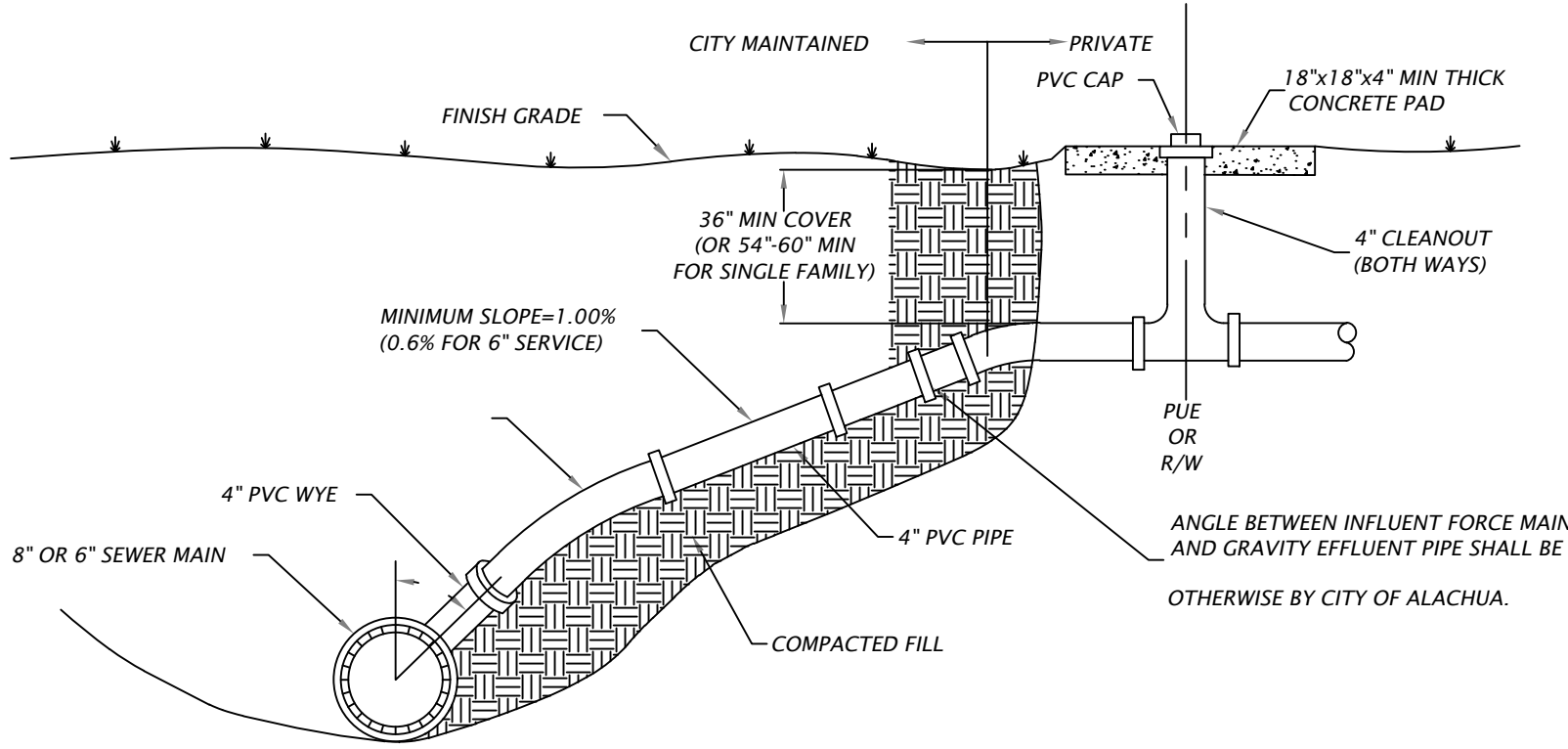
DETAIL No. 215 - 2" AND 3" BLOW-OFF ASSEMBLY
N.T.S.



- NOTES:
- GRAVITY MAIN PIPE SHALL BE INSTALLED AT THE LINE AND GRADE AS SHOWN ON THE PROFILES.

WASTEWATER GRAVITY MAIN CONSTRUCTION

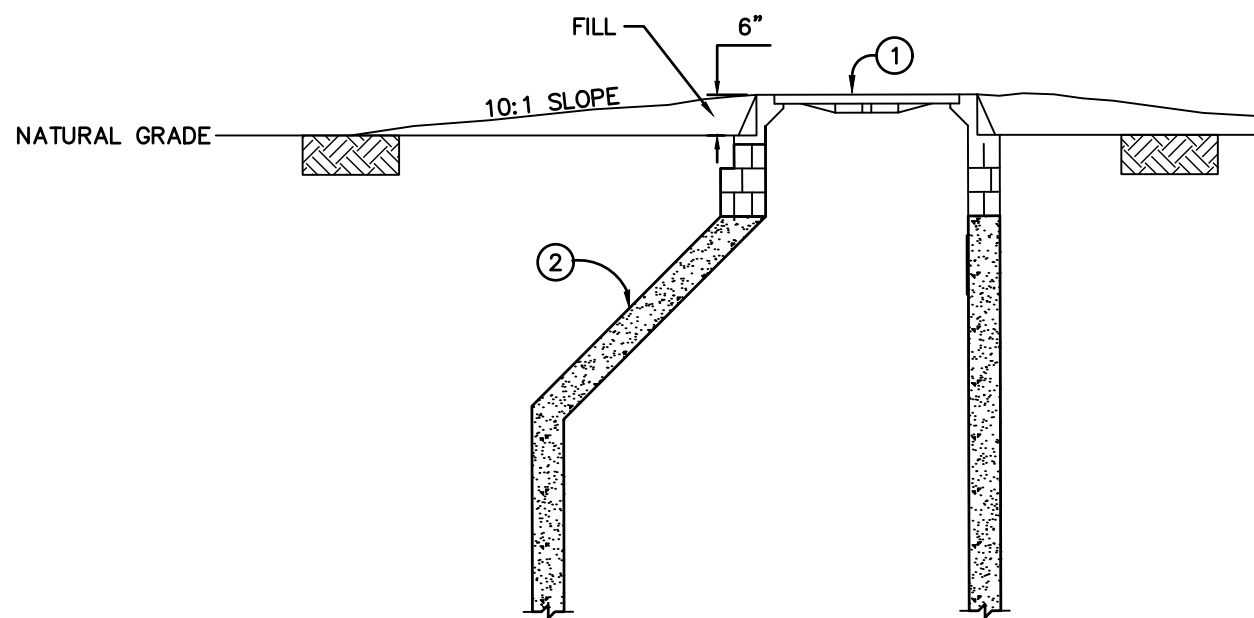
N.T.S.



- NOTE
- SINGLE SERVICES SHALL BE MINIMUM 4" DIAMETER PVC, SDR 35, GREEN OR GREEN STRIPED.

DETAIL No. 310 - WASTEWATER SERVICE LATERAL

N.T.S.



- NOTE: WHEN MANHOLE IS OUTSIDE PAVEMENT, THE RIM ELEVATION SHALL BE 6" ABOVE NATURAL GRADE. WITH FILL ADDED FOR A 10:1 SLOPE TO NATURAL GRADE.

MATERIALS	
ITEM	DESCRIPTION
1	MANHOLE RING & COVER
2	ECCENTRIC CONE

- NOTE: IN LOCATIONS WHERE STORMWATER INFILTRATION MAY BE POSSIBLE, A MANHOLE PAN WILL BE REQUIRED.

MANHOLE OUTSIDE OF PAVEMENT

N.T.S.



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Claudia S. Vega, P.E. 51532
Engineer Certificate No.

Project No: 21-087

Project phase:

CONSTRUCTION PLANS

Project title:

SAN FELASCO TECH CITY
PHASE 4 SITE PLAN
CITY OF ALACHUA,
FLORIDA

Sheet title:

UTILITY DETAILS

Designed: CSV

Sheet No.:

Drawn: MAB

Checked: DJM

Date: 06/23/22

C460

PLOTDATE: 06/23/2022 2:25 PM USER: SARAH MCCOWN FILENAME: C:\USERS\SARAH MCCOWN\BOX\PROJECT\2022\22-005 TECH CITY PH 4 - EDA\04_PRODUCTION\02_SPR & C05\2022-05_SPR & C05\1_SHEETS\22-005_TR.DWG

EXISTING REGULATED TREE REMOVAL AND CREDIT CHART

Tree No.	Existing Tree - Scientific / Common Name	Size (DBH)	Remove or Remain?	Mitigation Rate Required	Mitigation Required			Tree Credit	Condition & Notes
					Replacement Trees	OR	Replacement Inches		
202	Quercus virginiana / Live Oak	13	Remain					3	
218	Carya glabra / Pignut Hickory	13	Remove	1 tree:1 tree	1				
351	Pinus spp. / Pine	13	Remain						Pine does not provide credit nor require mitigation
501	Quercus virginiana / Live Oak	19	Remove	1 tree:1 tree	1				
502	Quercus virginiana / Live Oak	65	Remove	inch:inch			65		
503	Quercus virginiana / Live Oak	41	Remove	inch:inch			41		
504	Quercus virginiana / Live Oak	53	Remove	inch:inch			53		
505	Pinus spp. / Pine	21	Remove						Pine does not provide credit nor require mitigation
506	Prunus serotina / Wild Cherry	17	Remove						Wild Cherry does not provide credit nor require mitigation
507	Prunus serotina / Wild Cherry	19	Remove						Wild Cherry does not provide credit nor require mitigation
508	Prunus serotina / Wild Cherry	11	Remove						Wild Cherry does not provide credit nor require mitigation
509	Pinus spp. / Pine	23	Remove						Pine does not provide credit nor require mitigation
510	Prunus serotina / Wild Cherry	12	Remove						Wild Cherry does not provide credit nor require mitigation
511	Quercus virginiana / Live Oak	52	Remove	inch:inch			52		
512	Prunus serotina / Wild Cherry	11	Remove						Wild Cherry does not provide credit nor require mitigation
513	Prunus serotina / Wild Cherry	13	Remove						Wild Cherry does not provide credit nor require mitigation
514	Prunus serotina / Wild Cherry	16	Remove						Wild Cherry does not provide credit nor require mitigation
515	Prunus serotina / Wild Cherry	10	Remain						Wild Cherry does not provide credit nor require mitigation
414	Quercus virginiana / Live Oak	26	Remove	1 tree:1 tree	1				
Total Credits Available:									3
Total Mitigation Required by Inch:Inch Replacement:							211	inches	
Total Mitigation Required by Tree:Tree Replacement:					3	trees			
Converting Tree:Tree Replacement to Inch:Inch Replacement Below									
50% Mitigation Trees to be Canopy Trees at 2" cal. =					2	trees	4	inches	
50% Mitigation Trees to be Understory Trees at 1.5" cal. =					1	trees	1.5	inches	
Total Mitigation Inches Required:							216.5	inches	

SEE LANDSCAPE PLAN FOR LOCATION OF MITIGATION REPLACEMENT TREES AND FOR USE OF TREE CREDITS

TREE AND VEGETATION REMOVAL NOTES

- PRE-DESIGN MEETING: IF REQUESTED BY THE CITY OF ALACHUA, CONDUCT A PRE-DESIGN, ON-SITE MEETING WITH THE LDR ADMINISTRATOR TO LOCATE ANY CHAMPION OR HERITAGE TREES AND OTHER REGULATED TREES AND TO DISCUSS PROTECTION METHODS FOR TREES TO BE RETAINED OR RELOCATED.
- EXISTING TREE PROTECTION: PROTECTIVE BARRIERS SHALL BE CONSTRUCTED, AS NECESSARY, TO PREVENT THE DESTRUCTION OR DAMAGING OF REGULATED TREES LOCATED NEAR ANY CONSTRUCTION ACTIVITY OR STORAGE OF EQUIPMENT AND MATERIALS. PROTECTED TREES SHALL INCLUDE THOSE TREES THAT HAVE NOT BEEN PERMITTED NOR DESIGNATED FOR REMOVAL BY EITHER THE TERMS OF THE PERMIT OR APPROVED DEVELOPMENT ORDER. PROTECTIVE BARRIERS SHALL BE PLAINLY VISIBLE AND SHALL CREATE A CONTINUOUS BOUNDARY AROUND TREES OR VEGETATION CLUSTERS IN ORDER TO PREVENT ENCROACHMENT BY MACHINERY, VEHICLES, OR STORED MATERIALS. PROTECTIVE BARRIERS SHALL REMAIN IN PLACE AND INTACT UNTIL CONSTRUCTION IS COMPLETED. SEE DETAIL ON SHEET L-102 FOR ADDITIONAL REQUIREMENTS.
- EXISTING UTILITIES: LOCATE ALL UTILITIES PRIOR TO COMMENCEMENT OF WORK. CALL SUNSHINE STATE ONE CALL - SEE LOGO BELOW. A MINIMUM DISTANCE OF TEN FEET SHALL BE MAINTAINED FROM ALL RETAINED REGULATED, HERITAGE, AND CHAMPION TREES WHEN INSTALLING UNDERGROUND UTILITIES. IF THIS RESULTS IN UNREASONABLE HARDSHIP, A SOIL AUGER SHALL BE USED TO TUNNEL UNDER THE ROOT SYSTEMS. TREES WHOSE ROOTS ARE KNOWN TO CAUSE ROOT DAMAGE TO PUBLIC ROADWAYS OR OTHER PUBLIC WORKS SHALL NOT BE PLANTED WITHIN 15 FEET OF A PUBLIC UTILITY.
- TREE REMOVAL: TREE REMOVAL SHALL BE CONDUCTED BY A LICENSED GENERAL CONTRACTOR, LICENSED RESIDENTIAL CONTRACTOR, OR TREE REMOVAL COMPANY. THE ENTITY RESPONSIBLE FOR REMOVAL OF THE TREE OR TREES SHALL HAVE A CURRENT OCCUPATIONAL LICENSE GRANTED BY THE JURISDICTION IN WHICH THE COMPANY IS LOCATED. PROOF OF CURRENT OCCUPATIONAL LICENSE SHALL BE SUBMITTED AT THE TIME OF APPLICATION FOR TREE REMOVAL PERMIT OR BUILDING PERMIT A COPY OF THE TREE REMOVAL PERMIT SHALL BE POSTED ON THE SITE DURING CONSTRUCTION, IF APPLICABLE. SEE 'EXISTING REGULATED TREES AND REQUIRED MITIGATION' CHART FOR ADDITIONAL INFORMATION.
- INVASIVE NON-NATIVE TREE AND VEGETATION REMOVAL: VEGETATIVE MATERIALS IDENTIFIED IN THE FLORIDA EXOTIC PEST PLANT COUNCIL'S LIST OF INVASIVE PLANT SPECIES, AS AMENDED, SHALL BE REMOVED AT TIME OF DEVELOPMENT.



EXISTING REGULATED TREES AND REQUIRED MITIGATION

Per City of Alachua ULDR, Article 6., Sec. 6.2.D., Tree planting, relocation, replacement, credit, banking & Sec. 6.2.2.D.4. Landscaping standards, Credits for preservation of existing trees preserved & Table 6.2-3. Credit for existing trees preserved

REQUIREMENTS =

- Tree mitigation:** New trees shall be installed to replace removed healthy, regulated trees that are 10" DBH and over, excluding those trees on the City's Nuisance Tree List. Removed regulated trees shall be replaced on a 1 tree:1 tree basis. Removed heritage and champion trees shall be replaced on an inch:inch basis. Heritage trees are defined as 30" DBH or larger.
- Replacement trees:** Shall be graded Florida No. 1 or better. Replacement trees shall be of a similar type as that being removed. 50% shall be shade trees and 75% shall be site-specific trees chosen from the recommended tree list.
- Tree credits:** Where a minimum number of trees are required to meet the landscaping requirements of these land development regulations or an approved planned development, credit shall be given for the retention of healthy existing native trees. No credit will be given for the preservation of trees on the nuisance tree list. Double credit for will be given for each preserved healthy heritage tree accommodated by a change in design within portions of the site proposed for development. Tree credits can be used to comply with the landscaping standards for Subsections 6.2.2(D)(1), Site landscaping; 6.2.2(D)(2), Parking lot landscaping; or 6.2.2(D)(3), Perimeter buffers.
- Trees that do not require mitigation nor provide credits:** Pines and Wild Cherry trees, which exist on this site, are included in the City's Nuisance Tree List, App. 6.2.2.A. and as such do not require mitigation if removed. Wild Cherry trees to remain have not been included as tree credits.
- Use of proposed landscaping to meet mitigation:** Up to 25% of the trees required to meet the site landscaping, parking lot landscaping, or perimeter buffer standards can count towards the requirements of subsection 6.2.1.D.1. See landscape plans for proposed plantings and calculations.

Manley Design, LLC
224 NW 2nd Avenue, Suite E
Gainesville, Florida 32601
(352) 363-7412
Certificate of Authorization No. LC26000575

PROJECT NAME:

SAN FELASCO
TECH CITY
PHASE 4

Alachua, FL

for
Laser Investment Group

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PROJECT NO: 22-005
CLIENTS NO: 22-005
ISSUED FOR: SITE DEVELOPMENT
REVIEW

ISSUED DATE: 28 FEB 2022

REVISIONS:

26 APR 2022
31 MAY 2022
23 JUN 2022

SCALE:

N / A

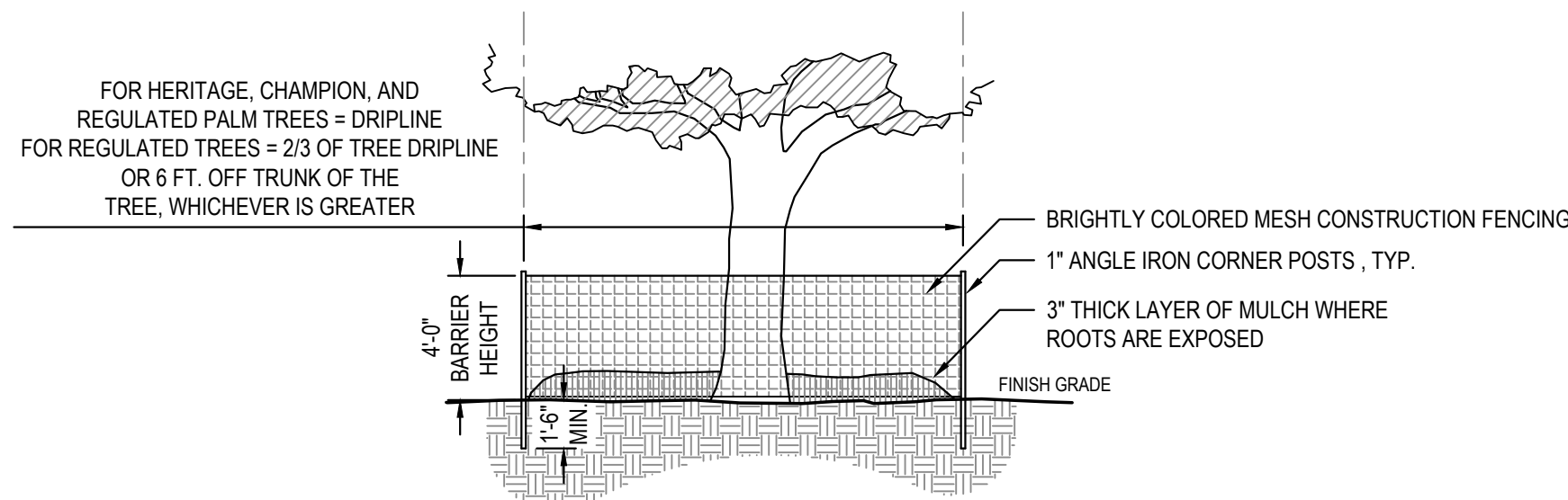
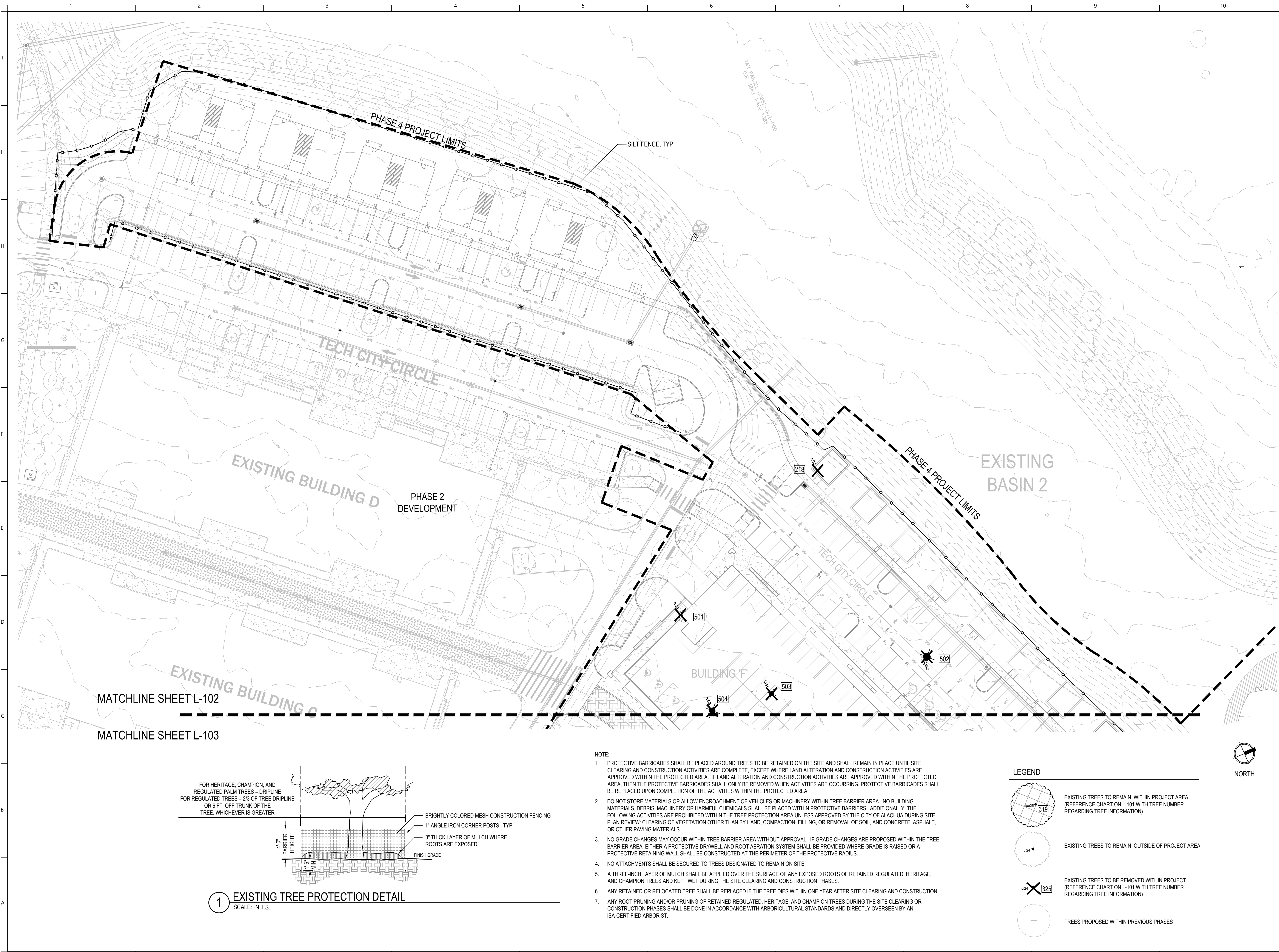
SHEET TITLE:

TREE REMOVAL AND
CREDITS CHART,
NOTES, AND DETAIL

SHEET NUMBER:

L-101

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FILENAME: C:\USERS\SARAH MCCOWN\BOX\PROJECT\2022\22-005 TECH CITY PH 4 - EDA\04_PRODUCTION\02_SPR & CDS\2022-06_SPR 4\01_SHEETS\22-005_TD.DWG



1 EXISTING TREE PROTECTION DETAIL
SCALE: N.T.S.

- NOTE:
- PROTECTIVE BARRICADES SHALL BE PLACED AROUND TREES TO BE RETAINED ON THE SITE AND SHALL REMAIN IN PLACE UNTIL SITE CLEARING AND CONSTRUCTION ACTIVITIES ARE COMPLETE. EXCEPT WHERE LAND ALTERATION AND CONSTRUCTION ACTIVITIES ARE APPROVED WITHIN THE PROTECTED AREA. IF LAND ALTERATION AND CONSTRUCTION ACTIVITIES ARE APPROVED WITHIN THE PROTECTED AREA, THEN THE PROTECTIVE BARRICADES SHALL ONLY BE REMOVED WHEN ACTIVITIES ARE OCCURRING. PROTECTIVE BARRICADES SHALL BE REPLACED UPON COMPLETION OF THE ACTIVITIES WITHIN THE PROTECTED AREA.
 - DO NOT STORE MATERIALS OR ALLOW ENCRoACHMENT OF VEHICLES OR MACHINERY WITHIN TREE BARRIER AREA. NO BUILDING MATERIALS, DEBRIS, MACHINERY OR HARMFUL CHEMICALS SHALL BE PLACED WITHIN PROTECTIVE BARRIERS. ADDITIONALLY, THE FOLLOWING ACTIVITIES ARE PROHIBITED WITHIN THE TREE PROTECTION AREA UNLESS APPROVED BY THE CITY OF ALACHUA DURING SITE PLAN REVIEW: CLEARING OF VEGETATION OTHER THAN BY HAND, COMPACTION, FILLING, OR REMOVAL OF SOIL, AND CONCRETE, ASPHALT, OR OTHER PAVING MATERIALS.
 - NO GRADE CHANGES MAY OCCUR WITHIN TREE BARRIER AREA WITHOUT APPROVAL. IF GRADE CHANGES ARE PROPOSED WITHIN THE TREE BARRIER AREA, EITHER A PROTECTIVE DRYWELL AND ROOT AERATION SYSTEM SHALL BE PROVIDED WHERE GRADE IS RAISED OR A PROTECTIVE RETAINING WALL SHALL BE CONSTRUCTED AT THE PERIMETER OF THE PROTECTIVE RADIUS.
 - NO ATTACHMENTS SHALL BE SECURED TO TREES DESIGNATED TO REMAIN ON SITE.
 - A THREE-INCH LAYER OF MULCH SHALL BE APPLIED OVER THE SURFACE OF ANY EXPOSED ROOTS OF RETAINED REGULATED, HERITAGE, AND CHAMPION TREES AND KEPT WET DURING THE SITE CLEARING AND CONSTRUCTION PHASES.
 - ANY RETAINED OR RELOCATED TREE SHALL BE REPLACED IF THE TREE DIES WITHIN ONE YEAR AFTER SITE CLEARING AND CONSTRUCTION.
 - ANY ROOT PRUNING AND/OR PRUNING OF RETAINED REGULATED, HERITAGE, AND CHAMPION TREES DURING THE SITE CLEARING OR CONSTRUCTION PHASES SHALL BE DONE IN ACCORDANCE WITH ARBORICULTURAL STANDARDS AND DIRECTLY OVERSEEN BY AN ISA-CERTIFIED ARBORIST.

- LEGEND
- EXISTING TREES TO REMAIN WITHIN PROJECT AREA (REFERENCE CHART ON L-101 WITH TREE NUMBER REGARDING TREE INFORMATION)
 - EXISTING TREES TO REMAIN OUTSIDE OF PROJECT AREA
 - EXISTING TREES TO BE REMOVED WITHIN PROJECT (REFERENCE CHART ON L-101 WITH TREE NUMBER REGARDING TREE INFORMATION)
 - TREES PROPOSED WITHIN PREVIOUS PHASES



MANLEY DESIGN
Landscape Architecture • Site Planning

Manley Design, LLC
224 NW 2nd Avenue, Suite E
Gainesville, Florida 32601
(352) 363-7412
Certificate of Authorization No. LC26000575

PROJECT NAME:

SAN FELASCO TECH CITY PHASE 4

Alachua, FL

for
Laser Investment Group

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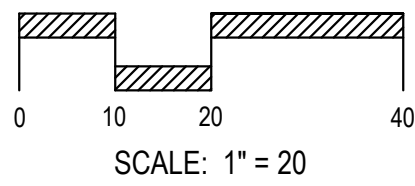
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PROJECT NO: 22-005
CLIENTS NO: 22-005
ISSUED FOR: SITE DEVELOPMENT
REVIEW

ISSUED DATE: 28 FEB 2022
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26 APR 2022
31 MAY 2022
23 JUN 2022

SCALE:



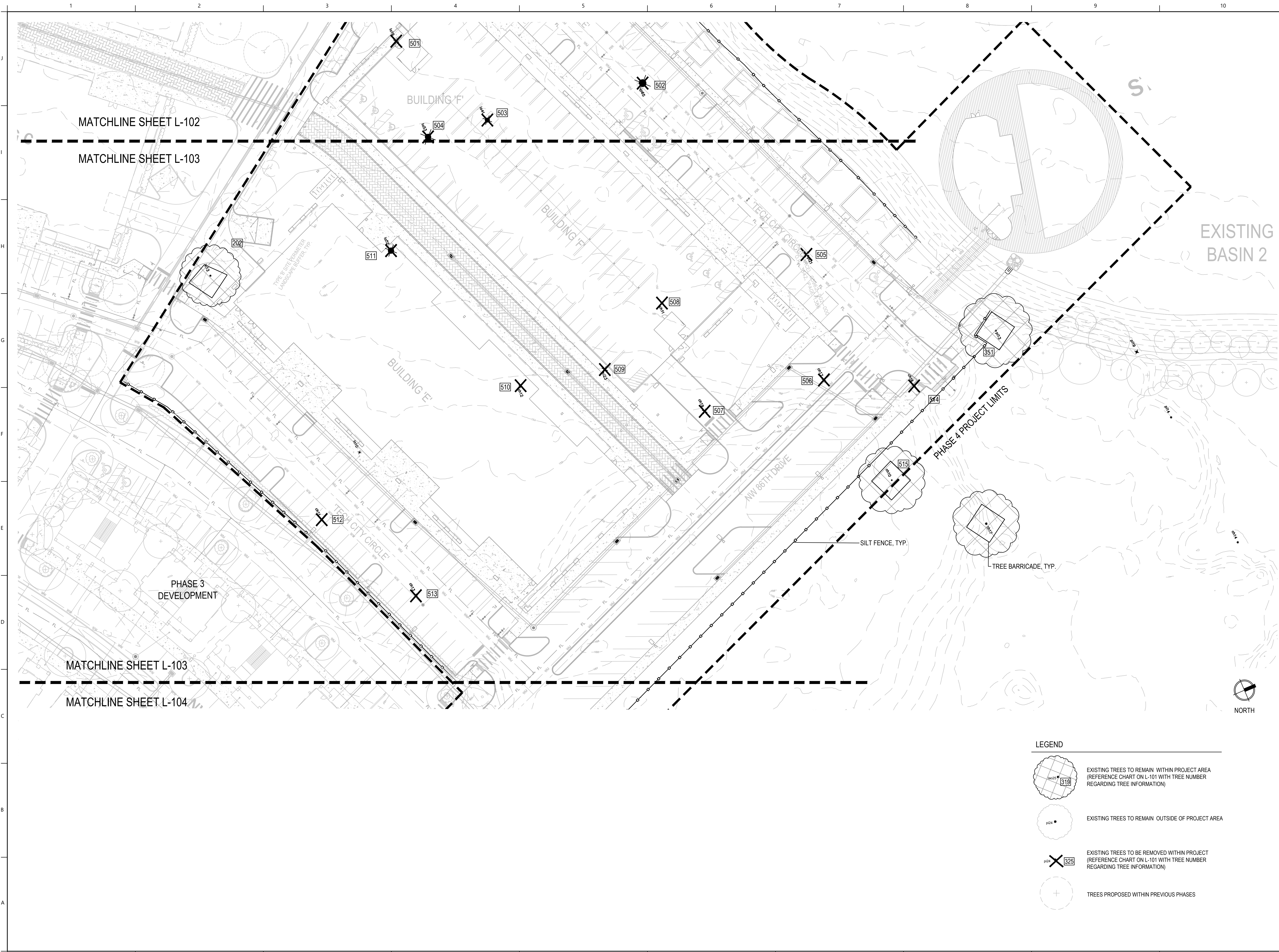
SHEET TITLE:

TREE REMOVAL AND CREDITS PLAN

SHEET NUMBER:

L-102

PLOTDATE: 06/23/2022 2:27 PM USER: SARAH MCCOWN
 FILENAME: C:\USERS\SARAH MCCOWN\BOX\PROJECT_2022\22-005 TECH CITY PH 4 - EDA\04_PRODUCTION\02_SPR & COS\2022-06_SPR 4\01_SHEETS\22-005_TD.DWG



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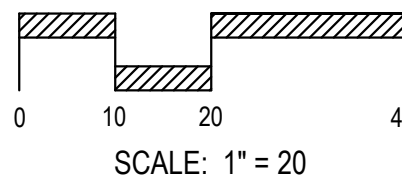
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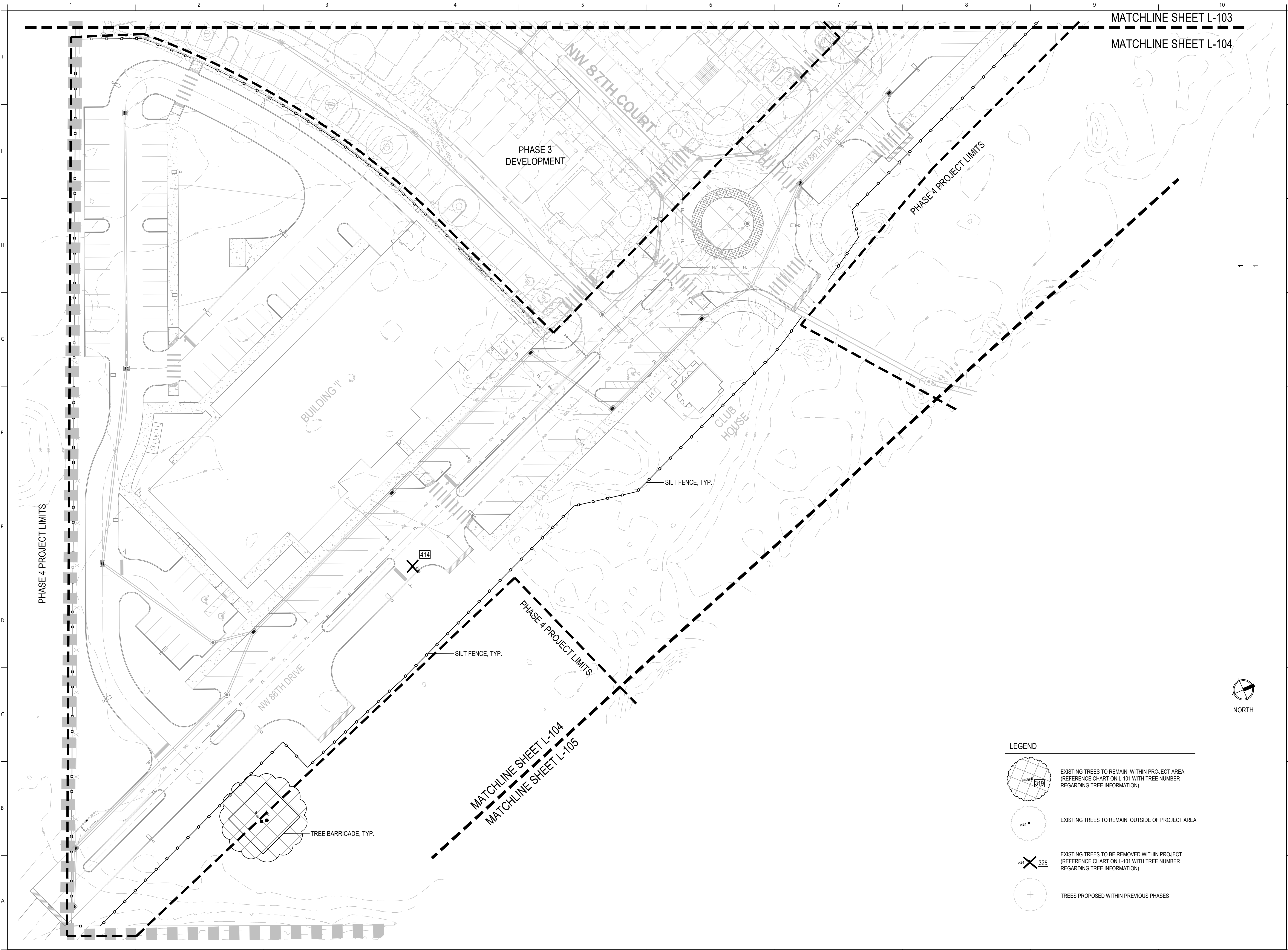
SHEET TITLE:

**TREE REMOVAL AND
 CREDITS PLAN**

SHEET NUMBER:

L-103

06/23/2022 2:42 PM USER: SARAH MCCOWN
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LEGEND

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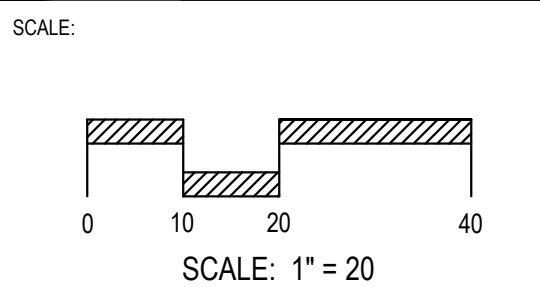
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PROJECT NO: 22-005
CLIENTS NO: 22-005
ISSUED FOR: **SITE DEVELOPMENT
REVIEW**

ISSUED DATE: 28 FEB 2022
REVISIONS:
26 APR 2022
31 MAY 2022
23 JUN 2022



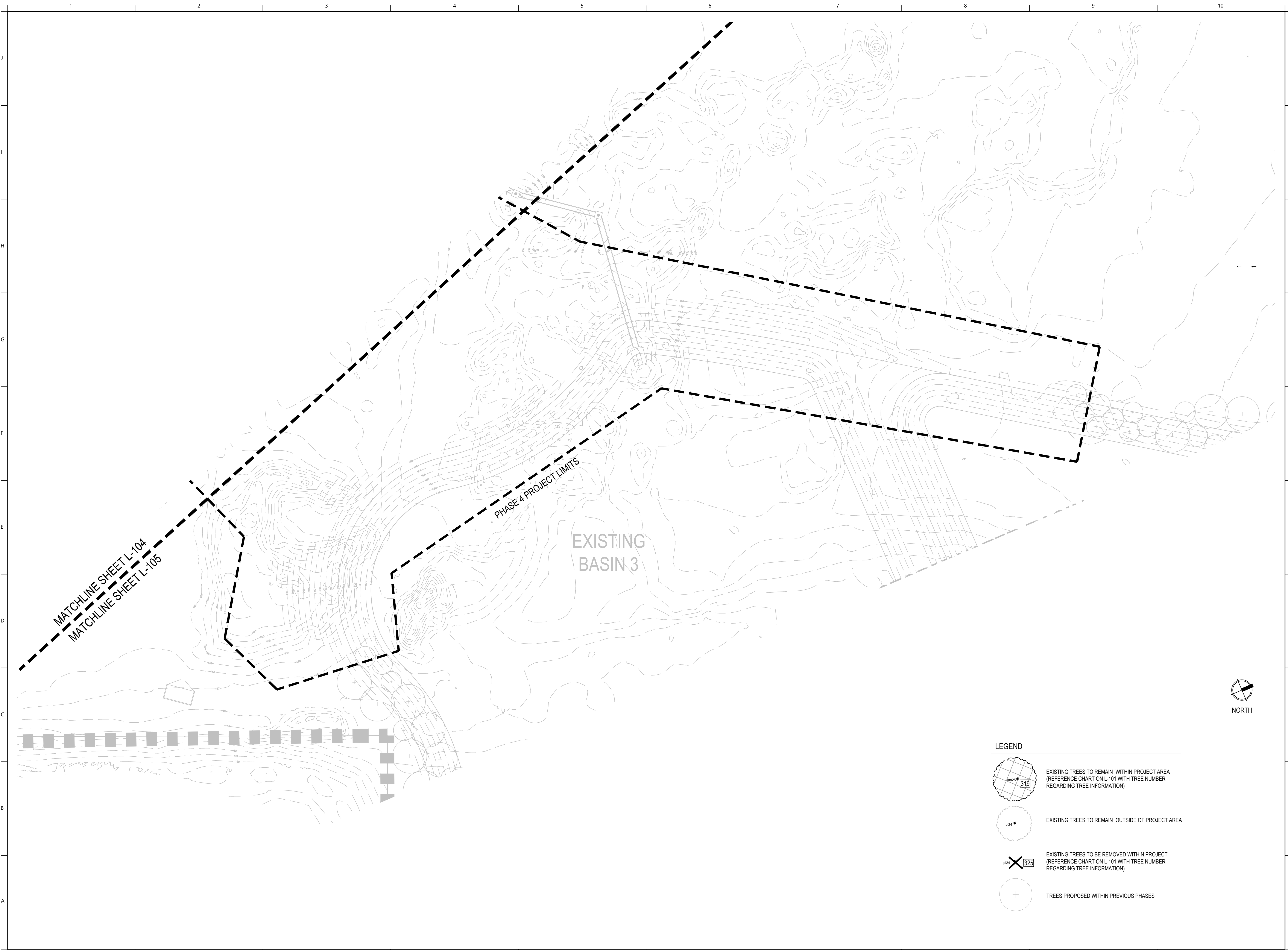
SHEET TITLE:

TREE REMOVAL AND CREDITS PLAN

SHEET NUMBER:

L-104

PLOTDATE: 06/23/2022 2:41 PM USER: SARAH MCCOWN
 FILENAME: C:\USERS\SARAH MCCOWN\BOX\PROJECT\2022\22-005 TECH CITY PH 4 - EDA\04_PRODUCTION\02_SPR & CDS\2022-06_SPR 4\01_SHEETS\22-005_TR.DWG



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 Landscape Architecture • Site Planning

Manley Design, LLC
 224 NW 2nd Avenue, Suite E
 Gainesville, Florida 32601
 (352) 363-7412
 Certificate of Authorization No. LC26000575

PROJECT NAME:

SAN FELASCO
 TECH CITY
 PHASE 4

Alachua, FL

for
 Laser Investment Group

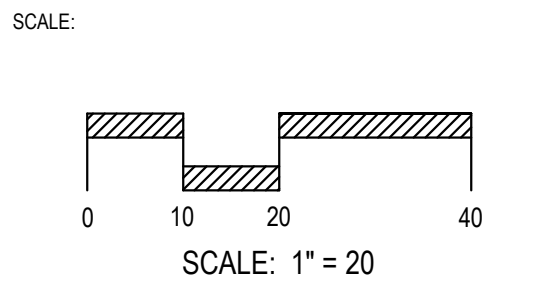
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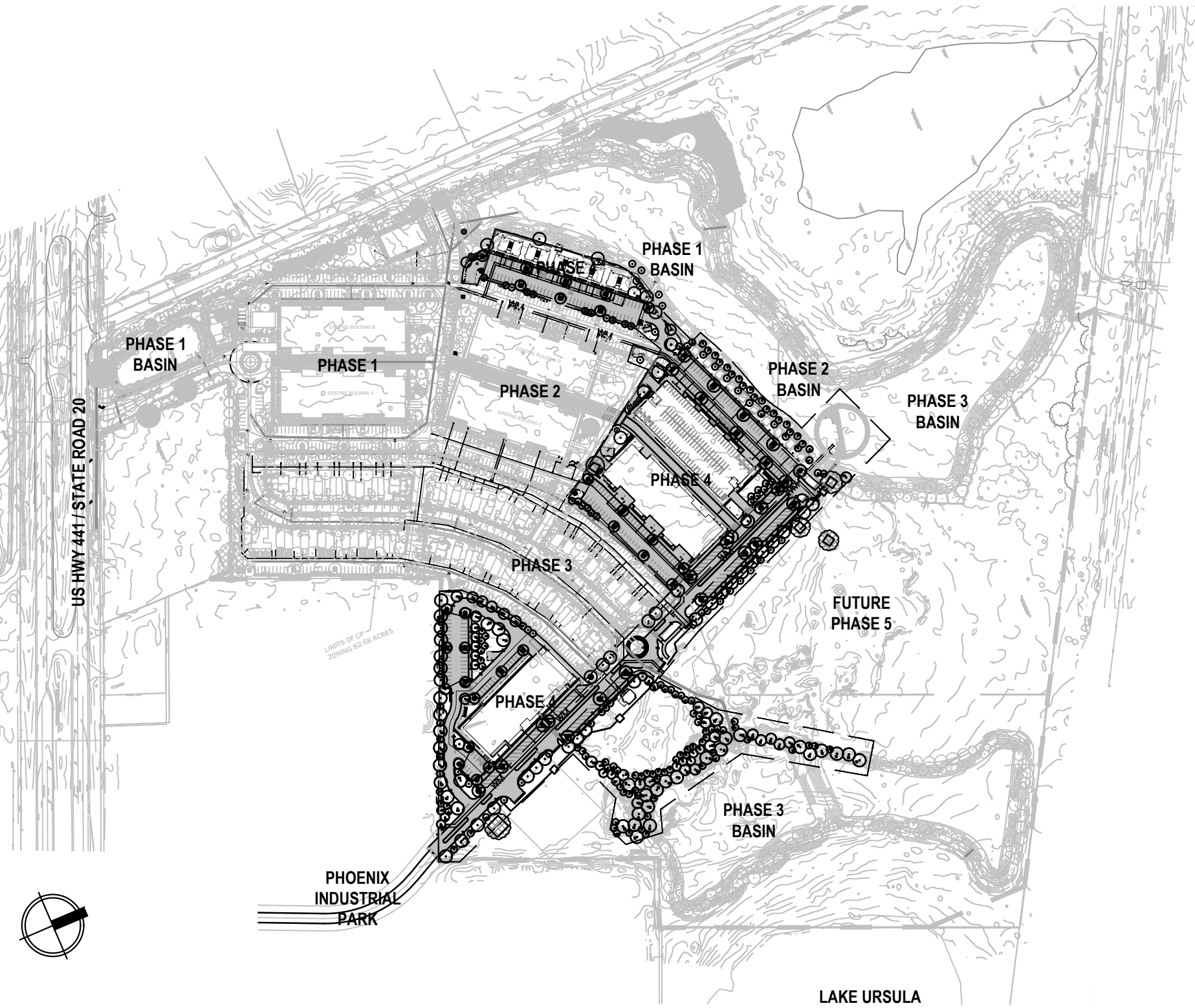


SHEET TITLE:
 TREE REMOVAL AND
 CREDITS PLAN

SHEET NUMBER:
 L-105

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KEY MAP



TREE CREDITS

TREE CREDITS: Use of Credits- Where a minimum number of trees are required to meet the landscaping requirements of these land development regulations or an approved planned development, credit shall be given for the retention of healthy existing native trees. No credit will be given for the preservation of trees on the nuisance tree list. Double credit for will be given for each preserved healthy heritage tree accommodated by a change in design within portions of the site proposed for development. Tree credits can be used to comply with the up to 75% of the landscaping standards for Subsections 6.2.2(D)(1). Site landscaping: 6.2.2(D)(2). Parking lot landscaping; or 6.2.2(D)(3). Perimeter buffers. See 'TREE REMOVAL AND TREE CREDITS PLAN' for list of tree credits.

TREE CREDITS	
Total Site, Parking, and Perimeter Buffer required trees	308
Tree Credits can be used towards meeting 75% of required trees	
75% of Total Site, Parking, and Perimeter Buffer required trees	231
Total Tree Credits Available	3
Tree Credit total is less than 75% of site required trees - All credits may be used.	
Total Tree Credits Able to be Used	3
Total Tree Credits Actually Used	3
Difference (remaining credits)	0

TREE DIVERSITY REQUIREMENTS

Per City of Alachua ULDR, Article 6., Sec. 6.2.2.D.8. Plantings
 REQUIREMENT = When (40) or more trees are required, no more than 50% of the required trees shall be of one single species.

TREE DIVERSITY	
Total Trees Proposed	330
50%	165
Max. of one species	64

MULTI-PHASE TREE RELOCATION

TREE RELOCATION DUE TO MULTI-PHASE CONFLICTS		
	REQUIRED	
	Canopy Trees, count	Understory Trees, count
Trees as part of Phase 1, 2, and/or 3 that were in conflict with proposed Phase 4 improvements that are relocated.		
Mitigation Required Canopy Trees in Need of Relocation	18	28
Site Required Canopy Trees in Need of Relocation	27	23
SUBTOTAL	45	51

Above totals represent trees that were proposed in previous phases that need to be relocated due to Phase 4 impacts. These trees have been incorporated into Phase 4 open areas and around the Phase 3 basin. These trees are denoted with an "R", see plan legend.

LANDSCAPE AREA REQUIREMENT

Per City of Alachua Comprehensive Plan - Future Land Use Element, Objective 2.4, Policy 2.4.a.

LANDSCAPE AREA			
Total Site Area = 12.56 Acres			
	Required	Provided	
		Acres	% of Total Site Area
Open Area (10% Min.)	1.256	3.96	31.5%
Landscape Area (10% Min., exclusive of open area)	1.256	1.29	10.3%

SITE PERIMETER LANDSCAPE BUFFER REQUIREMENTS

Per City of Alachua ULDR, Article 6., Sec. 6.2.2.D.3. Perimeter Buffers

REQUIREMENTS =

- Vacant Adjacent Parcel** (Sec. 6.2.2.D.3.d.i.): Where a developing parcel is adjacent to a vacant parcel, the developing parcel may provide one-half of the perimeter buffer required adjacent to the vacant land in accordance with Table 6.2-2, Buffer Class.

Perimeter Buffer - Type 'A' Buffer (Sec. 6.2.3. Perimeter Buffer Classifications): This buffer area functions as basic edge demarcating individual properties with a slight visual obstruction from the ground to a height of 10'. Screening requirement within buffer yard includes the following options:

- Option 1: 1 canopy tree + 1 understory/ornamental tree per 60 LF.
- Option 2: 1 canopy tree per 60 LF + hedge
- Option 3: 4' high berm or fence

- Existing Trees to Remain Credits** (Sec. 6.2.2.D.4.): Canopy or ornamental/understory trees that are in very good to excellent health, that are protected before and during development of the site and maintained thereafter in a healthy growing condition, can be used to comply with the landscaping standards for Subsections 6.2.2(D)(1). Site landscaping: 6.2.2(D)(2). Parking lot landscaping; or 6.2.2(D)(3). Perimeter buffers, of this section. Credits for the preservation of existing canopy or ornamental/understory trees will be based on the standards in Table 6.2-3, Credit for Existing Trees Preserved.

SITE PERIMETER BUFFERS							
6.2.2.D.3.	AREA		FL FRIENDLY REDUCE		PROVIDED		CREDITS USED
	South/Adjacent to Ph 3 & 2 Dev.	Not Required	CANOPY	0	0	TREES	CANOPY
		Not Required	UNDERSTORY	0	0	TREES	UNDERSTORY
	Southeast adjacent to Phoenix - Type 'A' Buffer, Option 1 Total length = 588 LF / 60	10	CANOPY	9	9	TREES	CANOPY
		10	UNDERSTORY	9	9	TREES	UNDERSTORY
	West adjacent to Phase 2 Dev.	Not Required	CANOPY	0	0	TREES	CANOPY
		Not Required	UNDERSTORY	0	0	TREES	UNDERSTORY
	North/Adjacent to future Tech City 'CP' site - Type 'A', Option 1. Adjacency vacant so only half of requirement applies. Total length = 1,807 LF / 60 x 50%	16	CANOPY	15	15	TREES	CANOPY
		16	UNDERSTORY	15	15	TREES	UNDERSTORY
TOTAL TREE CREDITS USED							0

TREE MITIGATION

TREE MITIGATION: See 'TREE REMOVAL AND TREE CREDITS PLAN' for calculation of required tree mitigation. 50% mitigation trees to be canopy trees and 75% to be site specific species. Up to 25% of the trees required to meet the site landscaping, parking lot landscaping, or perimeter buffer standards may be counted towards the requirements of mitigation per LCD Sec. 6.2.1.D.1. All mitigation trees are noted as 'M' on plans. Mitigation trees are provided in the Cafe and residential areas in addition to required plantings. All trees proposed around SMF Basin 2 Expansion and SMF Basin 3 are provided for mitigation. ('M' is not provided for each mitigation tree around ponds - See general notes on plan).

TREE MITIGATION				
	PROVIDED			
	Canopy Trees, count	INCHES - Canopy Trees (2"/ea)	Understory Trees, count	INCHES - Understory Trees (1.5"/ea)
Part A. Trees required by Land Development Code (LDC) can be applied toward total required mitigation for up to 25%				
Proposed Trees to meet LDC requirements	93	186	54	81
SUBTOTAL		186		81
Only 25% can be used towards mitigation		46		20
Part B. Tree Mitigation provided by additional replacement trees, in addition to those trees required by Land Development Code (LDC)				
Mitigation trees provided in addition to LDC trees	32	64	58	87
All can be used towards mitigation		64		87
Total Mitigation Inches Provided (Part A + B)				
Total Mitigation Inches Provided (25% allowable of Part A + All of Part B)		110		107
50% of mitigation trees shall be Canopy trees	Canopy =	50.7%	Understory =	49.3%
Total Mitigation Inches Provided by Canopy and Understory trees	217			
Total Mitigation Inches Required - See Tree Removal and Credits Plan	216.5			

PARKING LOT LANDSCAPE REQUIREMENTS

Per City of Alachua ULDR, Article 6., Sec. 6.2.2.D.2. Parking Lot Landscaping

PARKING PERIMETER									
PARKING AREA		Total Area (LF)		REQUIRED		PROVIDED			CREDITS USED
PERIMETER									
A	Adjacent to Ph 1	0	CANOPY	0	TREES	CANOPY			
		0	UNDERSTORY	0	TREES	UNDERSTORY			
B	Internal to site	0	SHRUBS	0	TREES	CANOPY			
		0	CANOPY	0	TREES	CANOPY			
		0	UNDERSTORY	0	TREES	UNDERSTORY			
		0	SHRUBS	0	TREES	CANOPY			
C	Internal to site	0	CANOPY	0	TREES	CANOPY			
		0	UNDERSTORY	0	TREES	UNDERSTORY			
D	115	5	SHRUBS	0	TREES	CANOPY			
		5	CANOPY	5	TREES	CANOPY			0
		3	UNDERSTORY	3	TREES	UNDERSTORY			0
			SHRUBS	Provided	TREES	CANOPY			
E	Internal to site	0	CANOPY	0	TREES	CANOPY			
		0	UNDERSTORY	0	TREES	UNDERSTORY			
			SHRUBS	0	TREES	CANOPY			
F	140	6	CANOPY	6	TREES	CANOPY			0
		3	UNDERSTORY	3	TREES	UNDERSTORY			0
G	Internal to site	0	SHRUBS	Provided	TREES	CANOPY			
		0	CANOPY	0	TREES	CANOPY			
		0	UNDERSTORY	0	TREES	UNDERSTORY			
		0	SHRUBS	0	TREES	CANOPY			
H	195	8	CANOPY	5	TREES	CANOPY			3
		4	UNDERSTORY	4	TREES	CANOPY			0
			SHRUBS	Provided	TREES	CANOPY			
		9	CANOPY	9	TREES	CANOPY			0
I	207	5	UNDERSTORY	5	TREES	UNDERSTORY			0
			SHRUBS	Provided	TREES	CANOPY			
J	45	2	CANOPY	2	TREES	CANOPY			0
		1	UNDERSTORY	1	TREES	UNDERSTORY			0
			SHRUBS	Provided	TREES	CANOPY			
K	181	8	CANOPY	8	TREES	CANOPY			0
		4	UNDERSTORY	4	TREES	UNDERSTORY			0
L	Internal to site		SHRUBS	Provided	TREES	CANOPY			
		0	CANOPY	0	TREES	CANOPY			
		0	UNDERSTORY	0	TREES	UNDERSTORY			
			SHRUBS	0	TREES	CANOPY			
M	Adjacent to Phase 3	0	CANOPY	0	TREES	CANOPY			
		0	UNDERSTORY	0	TREES	UNDERSTORY			
			SHRUBS	0	TREES	CANOPY			
TOTAL TREE CREDITS USED								3	

SITE LANDSCAPE REQUIREMENTS

1. PROPOSED MULTI-FAMILY DEVELOPMENT AREA

Per City of Alachua ULDR, Article 6., Sec. 6.2.2.D.1. Landscape Standards (a) Multifamily and townhouses.

- Site Orientation:** The front side of Phase 4 site is considered the northern side, adjacent to future Phase 5. Sides of Phase 4 are the eastern and western sides. The rear of Phase 4 is to the south, adjacent to Phase 2 & 3.

Multi-Family Buildings						
Multi-Family Use = 6.2.2.D.1.a						
					PROVIDED	CREDITS USED
TOTAL SITE AREA OF MULTI-FAMILY DEVELOPMENT AREA		1.1		AC		
SITE CANOPY TREE REQUIREMENTS (6.2.2.D.1.a.i)						
FRONT/EAST = 2 CANOPY TREES /AC	TREES	CANOPY	3		3	0
REAR/WEST = 1 CANOPY TREES /AC	TREES	CANOPY	4		4	0
SIDE/NORTH = 1 CANOPY TREES /AC	TREES	CANOPY	4		4	0
SIDE/SOUTH = 1 CANOPY TREES /AC	TREES	CANOPY	4		4	0
SITE UNDERSTORY TREE REQUIREMENTS (6.2.2.D.1.a.ii)						
TOTAL SITE UNDERSTORY = 6 UNDERSTORY TREES /AC	TREES	UNDERSTORY	22			
50% UNDERSTORY AT FRONT/EAST	TREES	UNDERSTORY	11		11	
25% UNDERSTORY AT NORTH SIDE	TREES	UNDERSTORY	6		6	0
25% UNDERSTORY SOUTH SIDE	TREES	UNDERSTORY	6		6	0
BUILDING FAÇADE REQUIREMENTS (6.2.2.D.1.a.iii)						
TYPICAL MULTI-FAMILY BUILDING - LONGEST BUILDING FAÇE	LF	TOTAL FAÇADE	55			
REQUIRED FRONT FAÇADE SHRUBS		SHRUBS	FRONT FAÇADE		PROVIDED	
REQUIRED FAÇADE OF BLDGS FACING EACH OTHER (6.2.2.D.1.a.iv)		SHRUBS	NOT REQUIRED DUE TO UNDER 100 LF OF FACED			
TOTAL TREE CREDITS USED						0

2. PROPOSED BUSINESS DEVELOPMENT AREA = BUILDING 'E', 'F', & 'I'

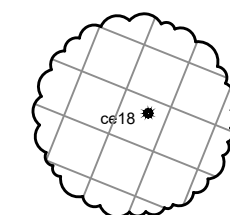
Per City of Alachua ULDR, Article 6., Sec. 6.2.2.D.1. Landscape Standards (c) Business Uses other than those use types found in the Industrial Services, Manufacturing and Production, and Warehouse and Freight Movement Use Categories.

Building 'E' & 'F'							
BUSINESS USE = 6.2.2.D.1.c							
					PROVIDED	CREDITS USED	
TOTAL SITE AREA OF BUSINESS DEVELOPMENT AREA			3.56		AC		
SITE CANOPY TREE REQUIREMENTS (6.2.2.D.1.c.i)							
FRONT/NORTH = 3 CANOPY TREES /AC			TREES	CANOPY	11	11	0
REAR/SOUTH = 2 CANOPY TREES /AC			TREES	CANOPY	8	8	0
E SIDE = 2 CANOPY TREES /AC			TREES	CANOPY	8	8	0
W SIDE = 2 CANOPY TREES /AC			TREES	CANOPY	8	8	0
SITE UNDERSTORY TREE REQUIREMENTS (6.2.2.D.1.c.ii)							
TOTAL SITE UNDERSTORY = 6 UNDERSTORY TREES /AC			TREES	UNDERSTORY	22		
50% OF UNDERSTORY LOCATED AT FRONT			TREES	UNDERSTORY	11	11	
25% OF UNDERSTORY LOCATED AT EAST SIDE			TREES	UNDERSTORY	6	6	0
25% OF UNDERSTORY LOCATED AT WEST SIDE			TREES	UNDERSTORY	6	6	0
BUILDING FAÇADE REQUIREMENTS (6.2.2.D.1.c.iii)							
BUILDING 'E' FAÇADE = 4 CANOPY / 100 LF PLANTED AT FRONT			LF	TOTAL FRONT FAÇADE	112		
REQUIRED FAÇADE TREES			TREES	CANOPY	5	5	
REQUIRED FAÇADE SHRUBS (6.2.2.D.1.c.iii)				SHRUBS	ALL FAÇADES	PROVIDED	
BUILDING 'F' FAÇADE = 4 CANOPY / 100 LF PLANTED AT FRONT			LF	TOTAL FRONT FAÇADE	102		
REQUIRED FAÇADE TREES			TREES	CANOPY	5	5	
REQUIRED FAÇADE SHRUBS (6.2.2.D.1.c.iii)				SHRUBS	ALL FAÇADES	PROVIDED	
TOTAL TREE CREDITS USED							0

Building 'I'						
BUSINESS USE = 6.2.2.D.1.c						
					PROVIDED	CREDITS USED
TOTAL SITE AREA OF BUSINESS DEVELOPMENT AREA		1.21		AC		
SITE CANOPY TREE REQUIREMENTS (6.2.2.D.1.c.i)						
FRONT/NORTH = 3 CANOPY TREES /AC	TREES	CANOPY	4		4	0
REAR/SOUTH = 2 CANOPY TREES /AC	TREES	CANOPY	3		3	0
E SIDE = 2 CANOPY TREES /AC	TREES	CANOPY	3		3	0
W SIDE = 2 CANOPY TREES /AC	TREES	CANOPY	3		3	0
SITE UNDERSTORY TREE REQUIREMENTS (6.2.2.D.1.c.ii)						
TOTAL SITE UNDERSTORY = 6 UNDERSTORY TREES /AC	TREES	UNDERSTORY	8			
50% OF UNDERSTORY LOCATED AT FRONT/NORTH	TREES	UNDERSTORY	4		4	
25% OF UNDERSTORY LOCATED AT EAST SIDE	TREES	UNDERSTORY	2		2	0
25% OF UNDERSTORY LOCATED AT WEST SIDE	TREES	UNDERSTORY	2		2	0
BUILDING FAÇADE REQUIREMENTS (6.2.2.D.1.c.iii)						
BUILDING 'I' FAÇADE = 4 CANOPY / 100 LF PLANTED AT FRONT	LF	TOTAL FRONT FAÇADE	277			
REQUIRED FAÇADE TREES	TREES	CANOPY	12		12	
REQUIRED FAÇADE SHRUBS (6.2.2.D.1.c.iii)		SHRUBS	ALL FAÇADES		PROVIDED	
TOTAL TREE CREDITS USED						0

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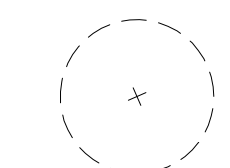
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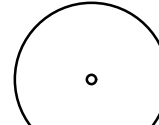
EXISTING TREES TO REMAIN WITHIN PROJECT
(SEE TREE REMOVAL AND TREE CREDITS PLAN
FOR ADDITIONAL INFORMATION)



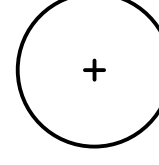
EXISTING TREES TO REMAIN OUTSIDE OF PROJECT



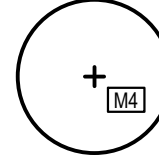
PROPOSED TREE AS PART OF PHASE 1, 2, OR 3 DEVELOPMENT
THAT IS NOT IMPACTED BY PHASE 4 DEVELOPMENT-
SEE FINAL, CITY APPROVED PLANS FOR PREVIOUS PHASES



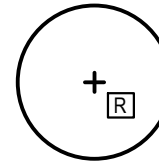
RELOCATED LOCATION OF TREE PLANTED WITHIN EARLIER PHASE
DUE TO IMPACTS OF PHASE 4'S DEVELOPMENT



NEW PROPOSED TREE AS PART OF PHASE 4 DEVELOPMENT
AND AS REQUIRED TO FULFILL LAND DEVELOPMENT REQUIREMENTS



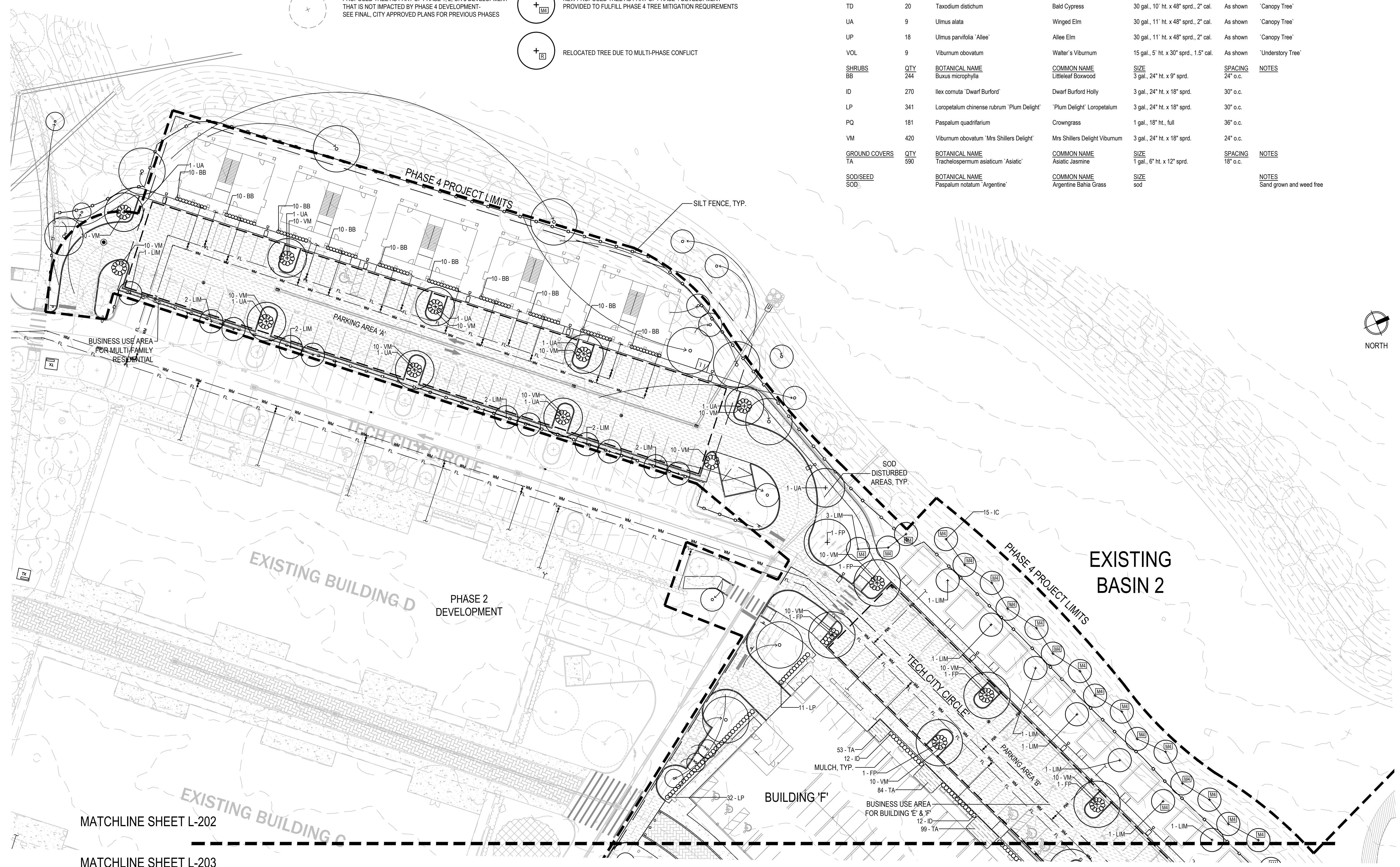
NEW PROPOSED TREE AS PART OF PHASE 4 DEVELOPMENT
PROVIDED TO FULFILL PHASE 4 TREE MITIGATION REQUIREMENTS



RELOCATED TREE DUE TO MULTI-PHASE CONFLICT

LANDSCAPE NOTES

TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	NOTES
AR	13	Acer rubrum 'Florida Flame'	Florida Flame Red Maple	30 gal., 11' ht. x 48" sprd., 2" cal.	As shown	'Canopy Tree'
FP	20	Fraxinus pennsylvanica	Green Ash	30 gal., 11' ht. x 48" sprd., 2" cal.	As shown	'Canopy Tree'
IC	48	Ilex cassine	Dahoon Holly	15 gal., 8' ht. x 24" sprd., 1.5" cal.	As shown	'Understory Tree'
LIM	63	Lagerstroemia indica x faurei 'Muskogee'	Muskogee Crape Myrtle	15 gal., 8' ht. x 24" sprd., 1.5" cal.	As shown	Multi-trunk, five canes minimum, 'Understory Tree'
LIN	43	Lagerstroemia indica x faurei 'Natchez'	Natchez Crape Myrtle	15 gal., 8' ht. x 24" sprd., 1.5" cal.	As shown	Multi-trunk, five canes minimum, 'Understory Tree'
LT	34	Liriodendron tulipifera	Tulip Poplar	30 gal., 11' ht. x 48" sprd., 2" cal.	As shown	'Canopy Tree'
QV	54	Quercus virginiana	Southern Live Oak	30 gal., 11' ht. x 48" sprd., 2" cal.	As shown	'Canopy Tree'
TD	20	Taxodium distichum	Bald Cypress	30 gal., 10' ht. x 48" sprd., 2" cal.	As shown	'Canopy Tree'
UA	9	Ulmus alata	Winged Elm	30 gal., 11' ht. x 48" sprd., 2" cal.	As shown	'Canopy Tree'
UP	18	Ulmus parvifolia 'Allee'	Allee Elm	30 gal., 11' ht. x 48" sprd., 2" cal.	As shown	'Canopy Tree'
VOL	9	Viburnum obovatum	Walter's Viburnum	15 gal., 5' ht. x 30" sprd., 1.5" cal.	As shown	'Understory Tree'
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	NOTES
BB	244	Buxus microphylla	Littleleaf Boxwood	3 gal., 24" ht. x 9" sprd.	24" o.c.	
ID	270	Ilex cornuta 'Dwarf Burford'	Dwarf Burford Holly	3 gal., 24" ht. x 18" sprd.	30" o.c.	
LP	341	Loropetalum chinense rubrum 'Plum Delight'	'Plum Delight' Loropetalum	3 gal., 24" ht. x 18" sprd.	30" o.c.	
PQ	181	Paspalum quadrifarium	Crowgrass	1 gal., 18" ht., full	36" o.c.	
VM	420	Viburnum obovatum 'Mrs Shillers Delight'	Mrs Shillers Delight Viburnum	3 gal., 24" ht. x 18" sprd.	24" o.c.	
GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	NOTES
TA	590	Trachelospermum asiaticum 'Asiatic'	Asiatic Jasmine	1 gal., 6" ht. x 12" sprd.	18" o.c.	
SOD/SEED		BOTANICAL NAME	COMMON NAME	SIZE		NOTES
SOD		Paspalum notatum 'Argentine'	Argentine Bahia Grass	sod		Sand grown and weed free



MANLEY DESIGN
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Certificate of Authorization No. LC26000575

PROJECT NAME:

SAN FELASCO
TECH CITY
PHASE 4

Alachua, FL

for
Laser Investment Group

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ISSUED DATE: 28 FEB 2022
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26 APR 2022
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23 JUN 2022

SCALE:
0' 15' 30' 60'
SCALE: 1" = 30'

SHEET TITLE:
LANDSCAPE PLAN,
SCHEDULE AND
NOTES

SHEET NUMBER:
L-202

PROJECT NAME:

Alachua, FL

or
Laser Investment Group

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PROJECT NO: 22-005
CLIENT'S NO.: 22-005
ISSUED FOR: **SITE DEVELOPMENT
REVIEW**

SUED DATE: 28 FEB 2022

REVISIONS:

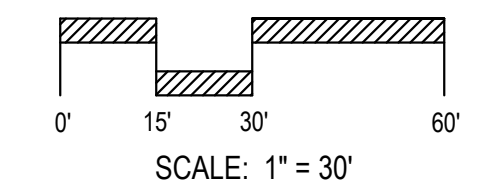
26 APR 2022

31 MAY 2022

23 JUN 2022



SCALE:

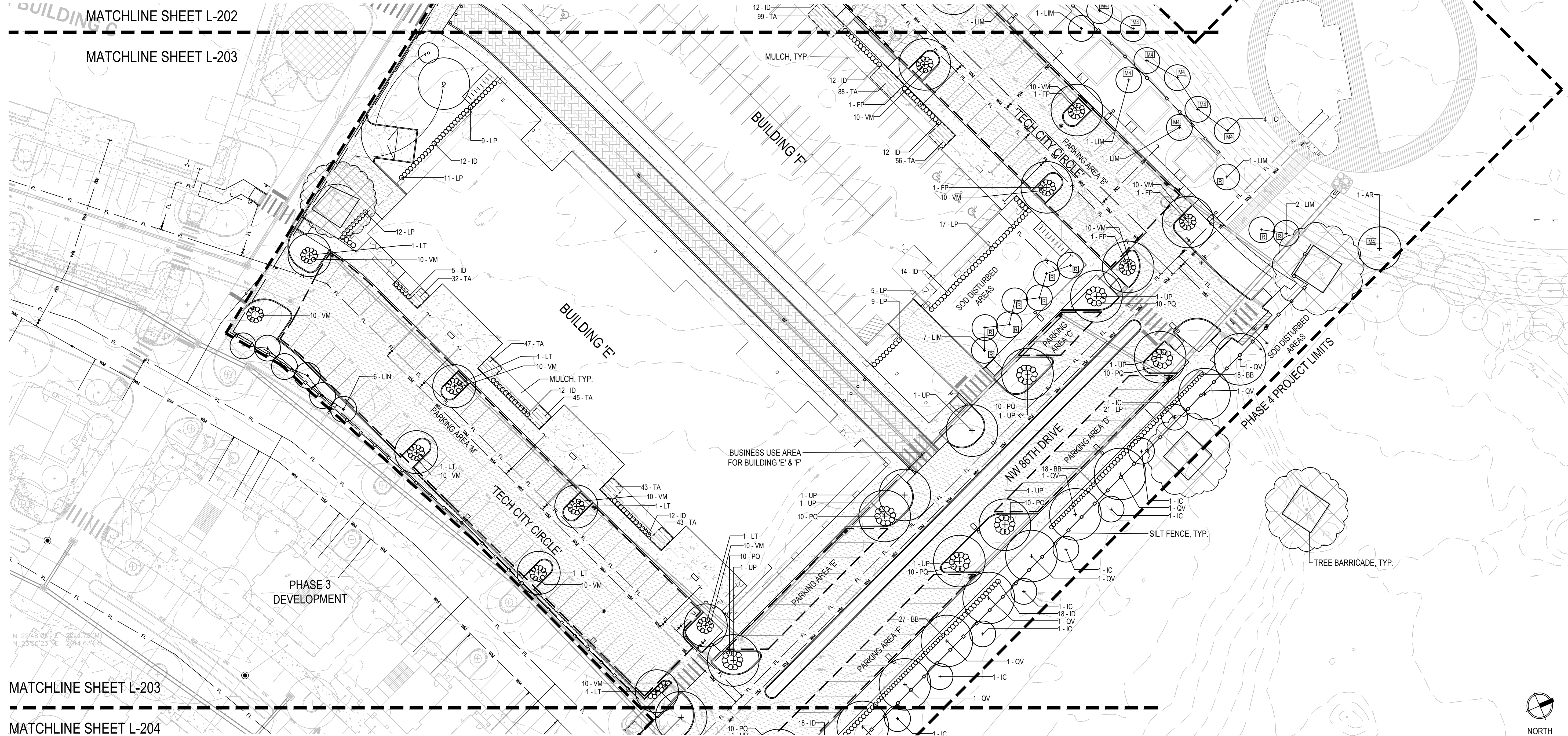


SHEET TITLE:

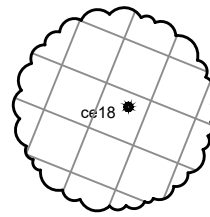
LANDSCAPE PLAN

SHEET NUMBER:

-203



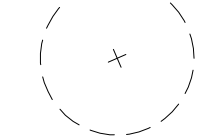
LEGEND



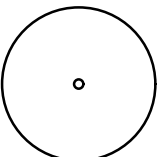
EXISTING TREES TO REMAIN WITHIN PROJECT
(SEE TREE REMOVAL AND TREE CREDITS PLAN
FOR ADDITIONAL INFORMATION)



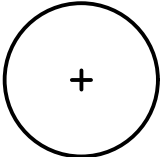
EXISTING TREES TO REMAIN OUTSIDE OF PROJECT



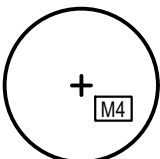
PROPOSED TREE AS PART OF PHASE 1, 2, OR 3 DEVELOPMENT
THAT IS NOT IMPACTED BY PHASE 4 DEVELOPMENT-
SEE FINAL, CITY APPROVED PLANS FOR PREVIOUS PHASES



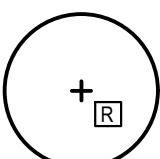
RELOCATED LOCATION OF TREE PLANTED WITHIN EARLIER PHASE
DUE TO IMPACTS OF PHASE 4'S DEVELOPMENT



NEW PROPOSED TREE AS PART OF PHASE 4 DEVELOPMENT
AND AS REQUIRED TO FULFILL LAND DEVELOPMENT REQUIREMENTS



NEW PROPOSED TREE AS PART OF PHASE 4 DEVELOPMENT
PROVIDED TO FULFILL PHASE 4 TREE MITIGATION REQUIREMENTS



RELOCATED TREE DUE TO MULTI-PHASE CONFLICT