SPRINGFIELD CITY COMPLEX

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3-60	FIRE STATION - DOOR SCHEDULE	P-12	FIRE STATION WASTE RISER DIAGRAM	FX-2.1	CITY HALL - FIRE SPRINKLER PLAN
3-70	FIRE STATION - WINDOW, STOREFRONT AND CURTAINWALL	P-13	PUBLIC WORKS WASTE RISER DIAGRAM	FX-3.1	FIRE STATION - FIRE SPRINKLER PLAN
3-80	FIRE STATION - FINISH SCHEDULE & DETAILS	P-14	PLUMBING FIXTURE SCHEDULE & DETAILS	FX-4.1	PUBLIC WORKS AREA A - FIRE SPRINKLER PLAN
3-81	FIRE STATION - FINISH FLOOR PLAN	P-15	POLICE STATION SCHEDULES AND DETAILS	FX-4.2	PUBLIC WORKS AREA B - FIRE SPRINKLER PLAN
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4-01	PUBLIC WORKS - LIFE SAFETY PLAN	P-17	FIRE STATION SCHEDULES AND DETAILS	IR.1	IRRIGATION PLAN
4-10	PUBLIC WORKS - REFERENCE FLOOR PLAN - AREA A	P-18	PUBLIC WORKS SCHEDULES AND DETAILS	IR.2	IRRIGATION DETAILS
4-11 4-12	PUBLIC WORKS - DIMENSIONS PLAN - AREA A		ENGINEERING - VOLUME - II	LS.1	LANDSCAPE PETALLS
.4-12 .4-13	PUBLIC WORKS - FURNITURE & EQUIPMENT PLAN - AREA A PUBLIC WORKS - REFERENCE FLOOR PLAN - AREA B	M1-00 M1-01	POLICE STATION HVAC LEGENDS & GENERAL NOTES HVAC ABBREVIATIONS	LS.2	LANDSCAPE DETAILS
	PUBLIC WORKS - REFERENCE FLOOR PLAN - AREA B PUBLIC WORKS - DIMENSIONS PLAN - AREA B	M1-01 M1-10	POLICE STATION HVAC NEW WORK		
4-14					
4-14 4-15	PUBLIC WORKS - FURNITURE & EQUIPMENT PLAN - AREA B	M1-11	POLICE STATION REFRIGERANT PIPING	1	

MOTT MACDONALD FLORIDA LLC

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MOTT MODERA

SPRINGFIELD CITY COMPLEX

City of Springfield

1141 TRANSMITTER RD.

Designer
Author
Checker
T. JARMAN
Approver
Approver

THIS DRAWING IS DISUED FOR BIDS-AUGUST 2024

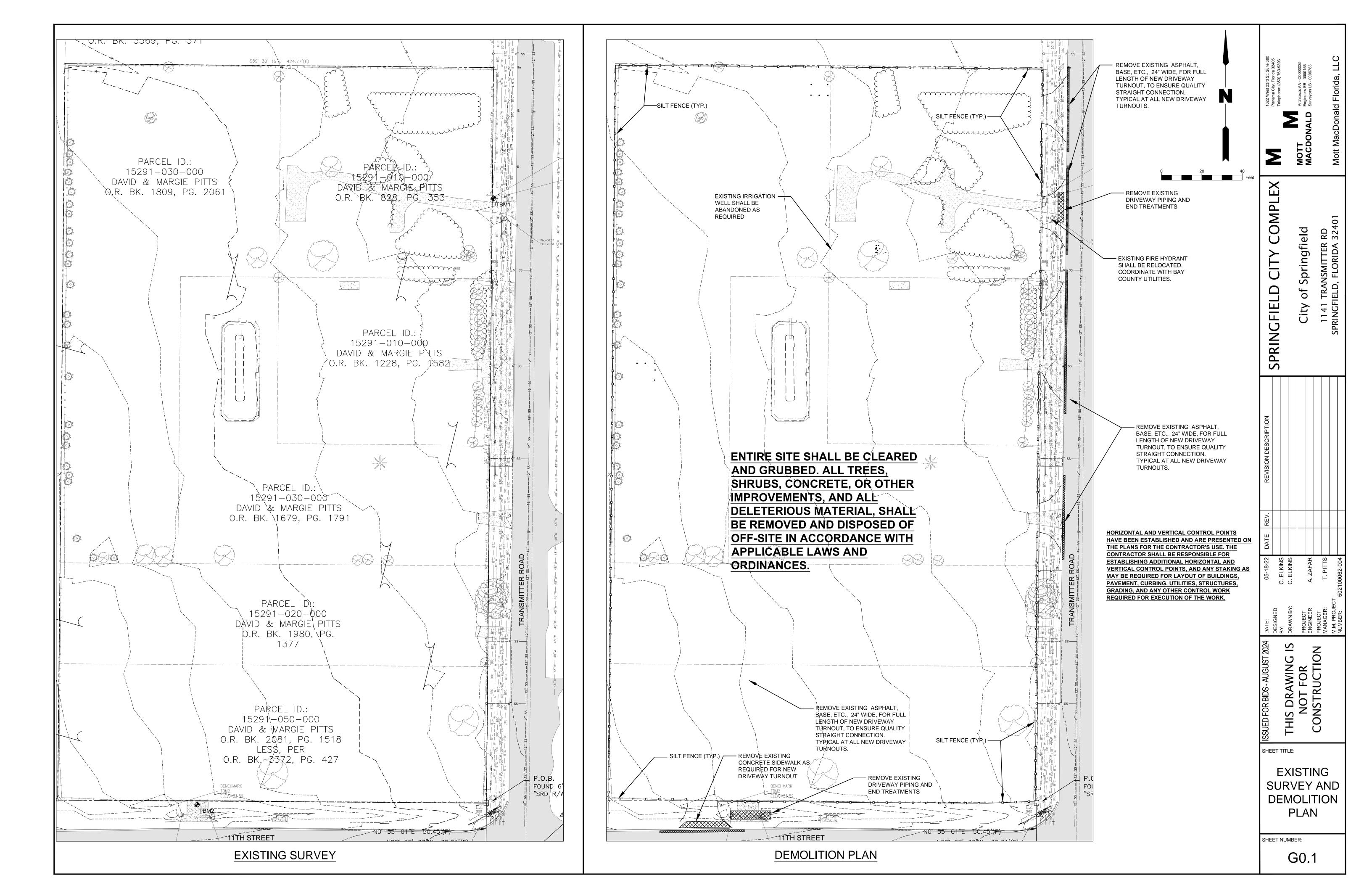
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INDEX OF DRAWINGS

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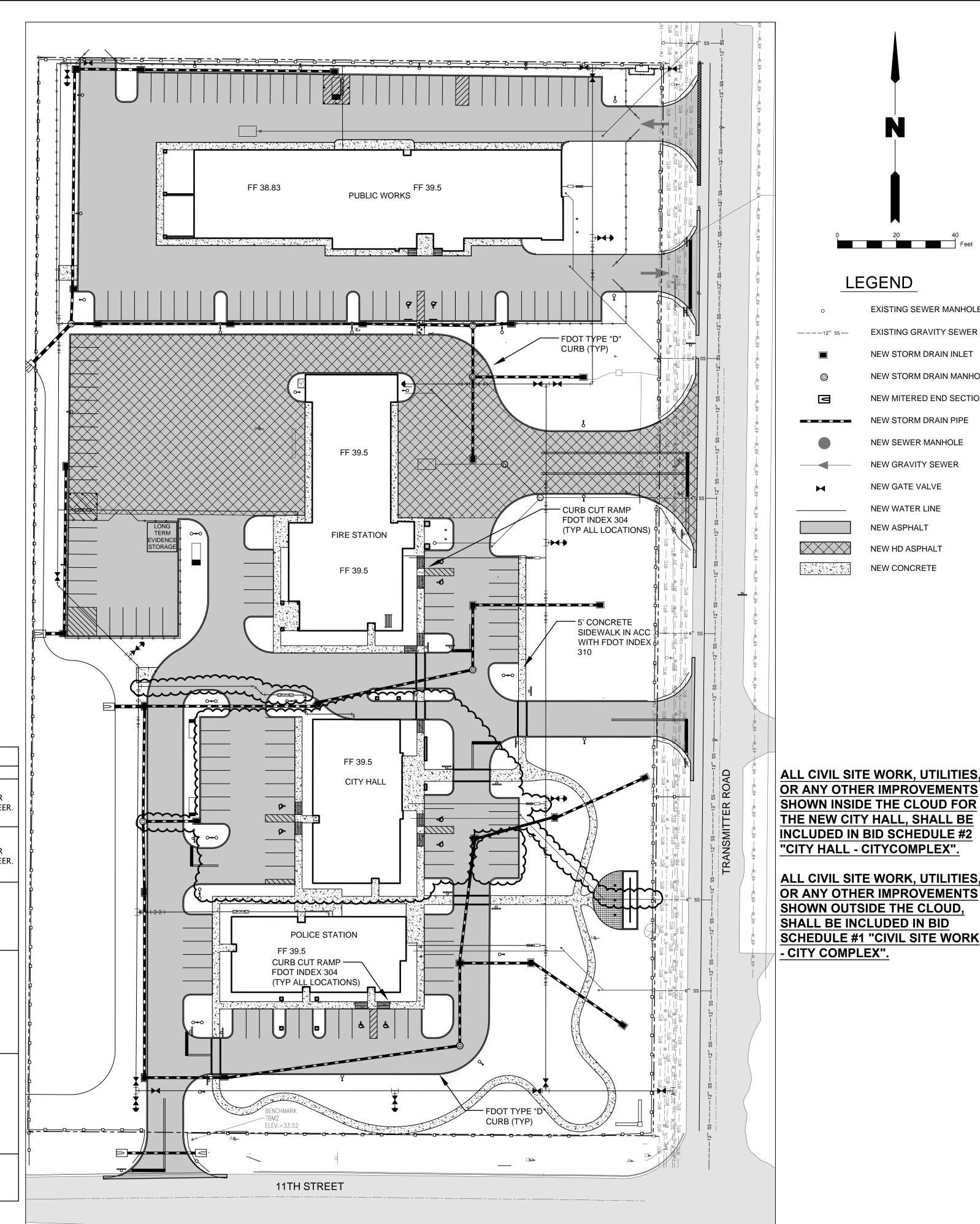


GENERAL NOTES

- 1. THE EXACT LOCATION AND ELEVATION OF EXISTING STRUCTURES, UTILITIES, AND PIPING SHALL BE PHYSICALLY VERIFIED IN THE FIELD BY THE CONTRACTOR BEFORE CONSTRUCTION BEGINS. THESE DRAWINGS DO NOT PURPORT TO SHOW IN COMPLETE DETAIL ALL EXISTING STRUCTURES, UTILITIES, OR PIPING.
- 2. THE CONTRACTOR SHALL EXAMINE ALL AVAILABLE RECORDS AND MAKE ALL EXPLORATIONS AND EXCAVATIONS AS REQUIRED TO DETERMINE THE LOCATION OF EXISTING STRUCTURES, UTILITIES, AND PIPING, WHENEVER NECESSARY. THE OWNER RESERVES THE RIGHT TO CHANGE LOCATION OF LINES TO AVOID CONFLICT WITH EXISTING STRUCTURES, UTILITIES, OR PIPING. THE CONTRACTOR SHALL CHECK PLANS FOR CONFLICTS AND DISCREPANCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE OWNER OR OWNER'S ENGINEER OF ANY CONFLICT BEFORE PERFORMING ANY WORK IN THE AFFECTED AREA.
- 3. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE VARIOUS UTILITY COMPANIES IN ORDER TO PERMIT MARKING THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN ADVANCE OF CONSTRUCTION.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES ABOVE OR BELOW GROUND THAT MAY OCCUR AS A RESULT OF WORK CALLED FOR IN THESE CONTRACT DOCUMENTS AT HIS OWN EXPENSE.
- 5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LEARN, KNOW, AND COMPLY WITH THE REGULATIONS, ORDINANCES, PERMIT AND INSPECTION REQUIREMENTS OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION.THE CONTRACTOR SHALL SCHEDULE THE REQUIRED INSPECTIONS AND APPROVALS IN ACCORDANCE WITH THE REQUIREMENTS OF THE PERMIT CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE NECESSARY AGENCIES OF CONSTRUCTION COMMENCEMENT.
- 6. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN ADEQUATE TRAFFIC CONTROL AND TO PROVIDE DETOURS AROUND CONSTRUCTION ACTIVITIES. ROAD CLOSURES MUST BE PRE-APPROVED BY THE OWNER AND ANY OTHER GOVERNING AGENCIES. IN ADDITION, THE CONTRACTOR SHALL COOPERATE WITH LOCAL RESIDENTS IN GAINING ACCESS TO THEIR HOMES AND BUSINESSES DURING WORKING HOURS AND SHALL ASSIST AT ALL TIMES WHEN VEHICLES EXPERIENCE TROUBLE DUE TO CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL SUBMIT A MAINTENANCE OF TRAFFIC PLAN FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION.
- 7. THE CONTRACTOR IS ADVISED THAT GROUNDWATER LEVELS VARY WITH WEATHER CONDITIONS AND SEASONAL CHANGES. THE DEWATERING OR REMOVAL OF WATERS FROM EXCAVATIONS IN THE COURSE OF CONSTRUCTING THIS PROJECT SHALL NOT BE GROUNDS FOR CHANGED CONDITIONS.
- 8. ALL DISTURBED AREAS SHALL BE SEEDED OR SODDED, AS DIRECTED IN THE FIELD.
- 9. THE CONTRACTOR SHALL OBTAIN AND HAVE ON SITE ALL PERMITS PRIOR TO CONSTRUCTION. DEP (EXCLUDING NPDES), DOT, AND COUNTY, PERMITS SHALL BE FURNISHED BY THE CITY. THE CONTRACTOR SHALL OBTAIN ALL OTHER REQUIRED PERMITS.
- 10. PRIOR TO COMMENCING CONSTRUCTION, CONTRACTOR SHALL INSTALL ANY REQUIRED SILT FENCING AND / OR OTHER EROSION CONTROL MEASURES FOR SILT CONTROL.
- 11. THE CONTRACTOR SHALL INSTALL ALL TRAFFIC CONTROL DEVICES REQUIRED FOR THE PROJECT IN ACCORDANCE WITH THE LATEST EDITION OF THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 12. ALL EXISTING CONCRETE, ASPHALT, MANHOLES, PIPES, TREES, STUMPS, AND OTHER DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH FLORIDA LAWS.
- 13. WHERE IT BECOMES NECESSARY TO TEMPORARILY REMOVE, REPOSITION, OR SUPPORT EXISTING FACILITIES, STORMDRAIN STRUCTURES, UTILITY POLES, ETC., THIS WORK SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE AND IN ACCORDANCE WITH REQUIREMENTS OF THE OWNER OF THE EXISTING FACILITY, UTILITY POLE, ETC. THE CONTRACTOR SHALL GIVE PROPER NOTICE TO THE UTILITIES.
- 14. THE CONTRACTOR SHALL PHYSICALLY EXAMINE THE ENTIRE PROJECT SITE TO BECOME FULLY INFORMED IN REGARD TO ALL CONDITIONS PERTAINING TO THE PLACE WHERE THE WORK IS TO BE PERFORMED FOR PURPOSE OF DETERMINING HIS COST TO PERFORM THE WORK. THE CONTRACTOR SHOULD PAY SPECIAL ATTENTION TO AREAS INVOLVING CLEARING AND GRUBBING, EXISTING FACILITIES REMOVAL AND REPLACEMENT, SUPPORT OR RELOCATION, AND WORK INVOLVED ADJACENT TO WETLAND AREAS.
- 15. ALL SIDEWALK AND CURB CUT RAMPS SHALL BE IN ACCORDANCE WITH FDOT INDEX 310 AND 304.

		TEST	ING SCHEDULE	
TEM	TEST	TEST IDENTIFICATION	TEST REQUIREMENT	TEST FREQUENCY
UTILITY TRENCH FILL & BACKFILL	MAXIMUM DENSITY OPTIMUM MOISTURE	AASHTO T-180 ASTM D-1557 AASHTO T-191	N/A	PER SOIL TYPE ONE PER EVERY 300 LF HORIZONTALLY, WITH A MINIMUM OF ONE PER
	FIELD DENSITY GRADATION	ASTM D-1556, D-2937, D-6938 AASHTO T-27, ASTM D-6913	98% OF MODIFIED PROCTOR (15% PASSING NO. 200)	LIFT. THE LOCATION OF EACH TEST WILL BE SELECTED BY THE ENGINEER PER SOIL TYPE
FILL & BACKFILL UNDER ROADWAYS	MAXIMUM DENSITY OPTIMUM MOISTURE	AASHTO T-180 ASTM D-1557	N/A	PER SOIL TYPE
AND STRUCTURES	FIELD DENSITY	AASHTO T-191 ASTM D-1556, D-2937, D-6938	98% OF MODIFIED PROCTOR	ONE PER EVERY 300 LF HORIZONTALLY, WITH A MINIMUM OF ONE PER LIFT. THE LOCATION OF EACH TEST WILL BE SELECTED BY THE ENGINEER
	GRADATION	AASHTO T-27, ASTM D-6913	(15% PASSING NO. 200)	ONE PER SOIL TYPE
SUB GRADE	BEARING VALUES	LBR-FDOT 5-515	40 (MIN.)	ONE PER SITE OR AT MATERIAL CHANGES
	MAXIMUM DENSITY OPTIMUM MOISTURE	AASHTO T-180 ASTM D-1557	N/A	PER SOIL TYPE
	FIELD DENSITY & THICKNESS	AASHTO T-191 ASTM D-1556, D-2937, D-6938	98% OF MAXIMUM DENSITY	ONE PER 300 LF HORIZONTAL WITH A MINIMUM OF 3 TESTS
BASE (SAND-ASPHALT)	MARSHALL STABILITY TESTS	FDOT FM 5-511	500 LBS. (MIN.)	ONE PER SITE AS MATERIAL CHANGES
	FIELD DENSITY & THICKNESS	ASTM D-2950	95% OF LAB DENSITY AS DETERMINED BY MARSHALL METHOD	ONE PER 300 LF HORIZONTAL WITH A MINIMUM OF 3 TESTS
BASE (LIMEROCK)	BEARING VALUES	FDOT FM 5-515	100 (MIN.)	ONE PER SUPPLIER WITH A MINIMUM OF 3 TESTS
	FIELD DENSITY & THICKNESS	AASHTO T-180, ASTM D-1557 AASHTO T-191 ASTM D-1556, D-2937, D-6938	98% OF MAXIMUM DENSITY	ONE PER 250 LF HORIZONTAL WITH A MINIMUM OF 3 TESTS
ASPHALT	MATERIALS QUALITY BITUMEN CONTENT & GRADATION	AASHTO T-164, 5-30 ASTM D-2172	FDOT SPEC. 330, 331, 916 FDOT SPEC. 330, 331, 916	ONE PER DAY FOR GRADATION
	FIELD DENSITY & THICKNESS	ASTM D-2950	95% OF LAB DENSITY	ONE PER 300 LF HORIZONTAL WITH A MINIMUM OF 3 TESTS
	AGGREGATE CERTIFICATION	N/A	FDOT SPEC. 901, 902	ONE PER SUPPLIER
	MARSHALL STABILITY & DENSITY	FDOT FM 5-11	FDOT SPEC 331	ONE PER DAY
CONCRETE	SLUMP TEST	AASHTO T-119 ASTM C-143	2" TO 3"	AS REQUIRED BY SOILS ENGINEER OR ONE PER SET OF CYLINDERS
(MISC. SITE WORK)	COMPRESSIVE	AASHTO T-23, TP-20	3000 PSI	ONE SET OF 3 CYLINDERS PER 50 CY PER DAY
	STRENGTH AIR CONTENT	ASTM C-31, C-39 AASHTO T-356, 152, 196, 121	3% TO 6%	ONE PER SET OF CYLINDERS

1) CONCRETE FOR SITE WORK INCLUDES BUT IS NOT LIMITED TO CURB, CURB & GUTTER, SIDEWALKS ETC., EXCEPT CONCRETE PAVEMENT. 2) WHERE THERE IS A DISCREPANCY BETWEEN THIS TESTING SCHEDULE AND THE SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.



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gfield

PROJECT

LAYOUT

AND

GENERAL

NOTES

G1.0

SHEET NUMBER:

4 7

Feet

EXISTING SEWER MANHOLE

EXISTING GRAVITY SEWER

NEW STORM DRAIN INLET

NEW STORM DRAIN MANHOLE

NEW MITERED END SECTION

NEW STORM DRAIN PIPE

NEW SEWER MANHOLE

NEW GRAVITY SEWER

NEW GATE VALVE

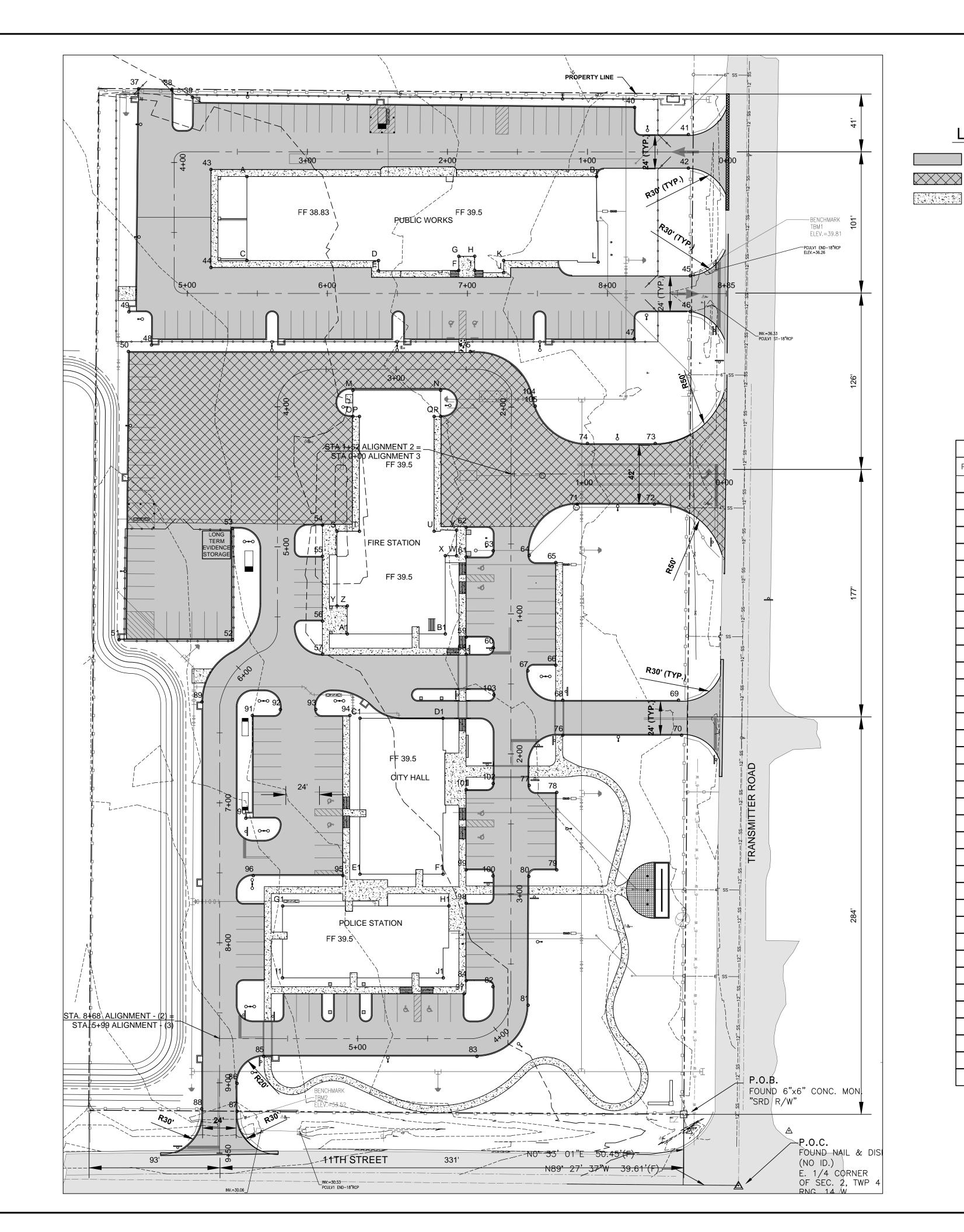
NEW WATER LINE

NEW HD ASPHALT

NEW CONCRETE

NEW ASPHALT

LEGEND



PAVEMENT LAYOUT POINTS

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49

53

54

59

62

65

72

PAVEMENT LAYOUT POINTS

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Northing

426862.6958

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83

93

94

96

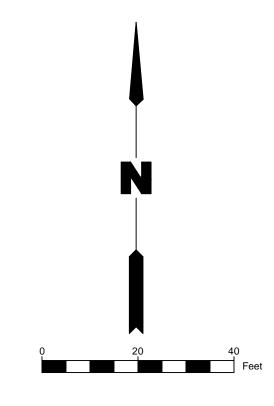
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LEGEND

NEW ASPHALT

NEW HD ASPHALT

NEW CONCRETE

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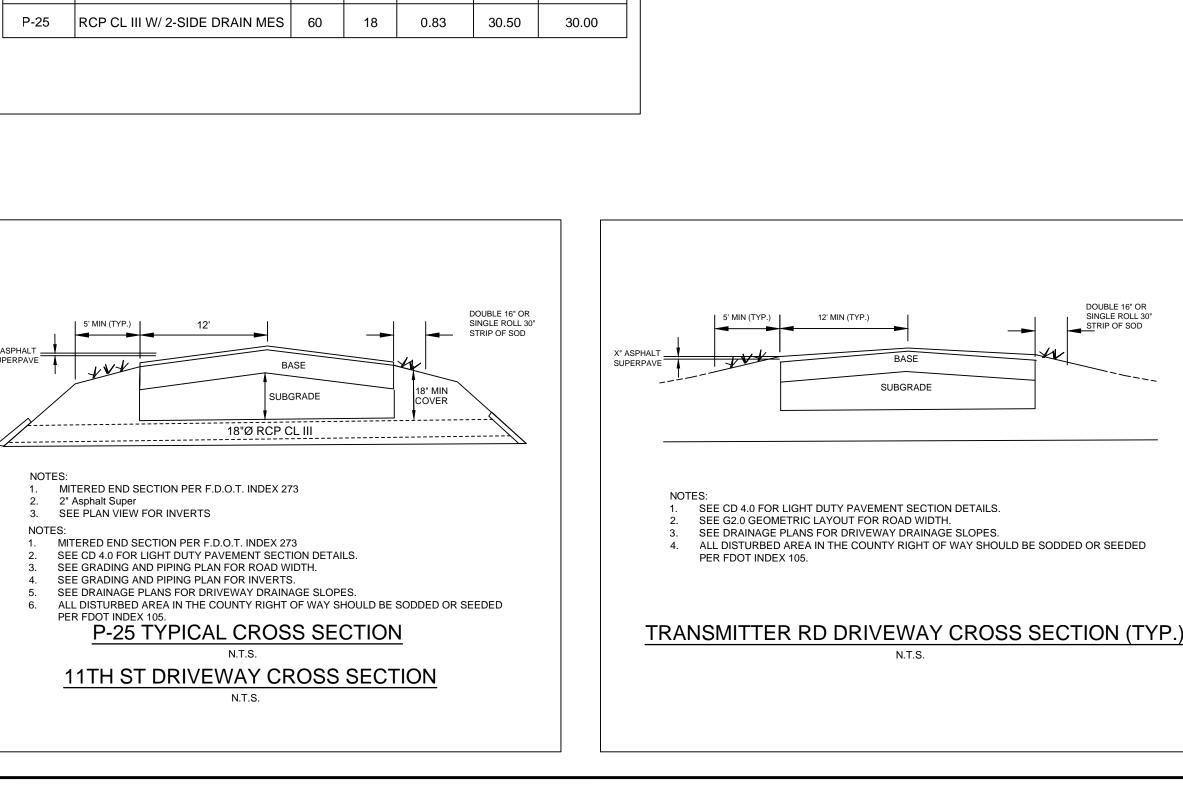
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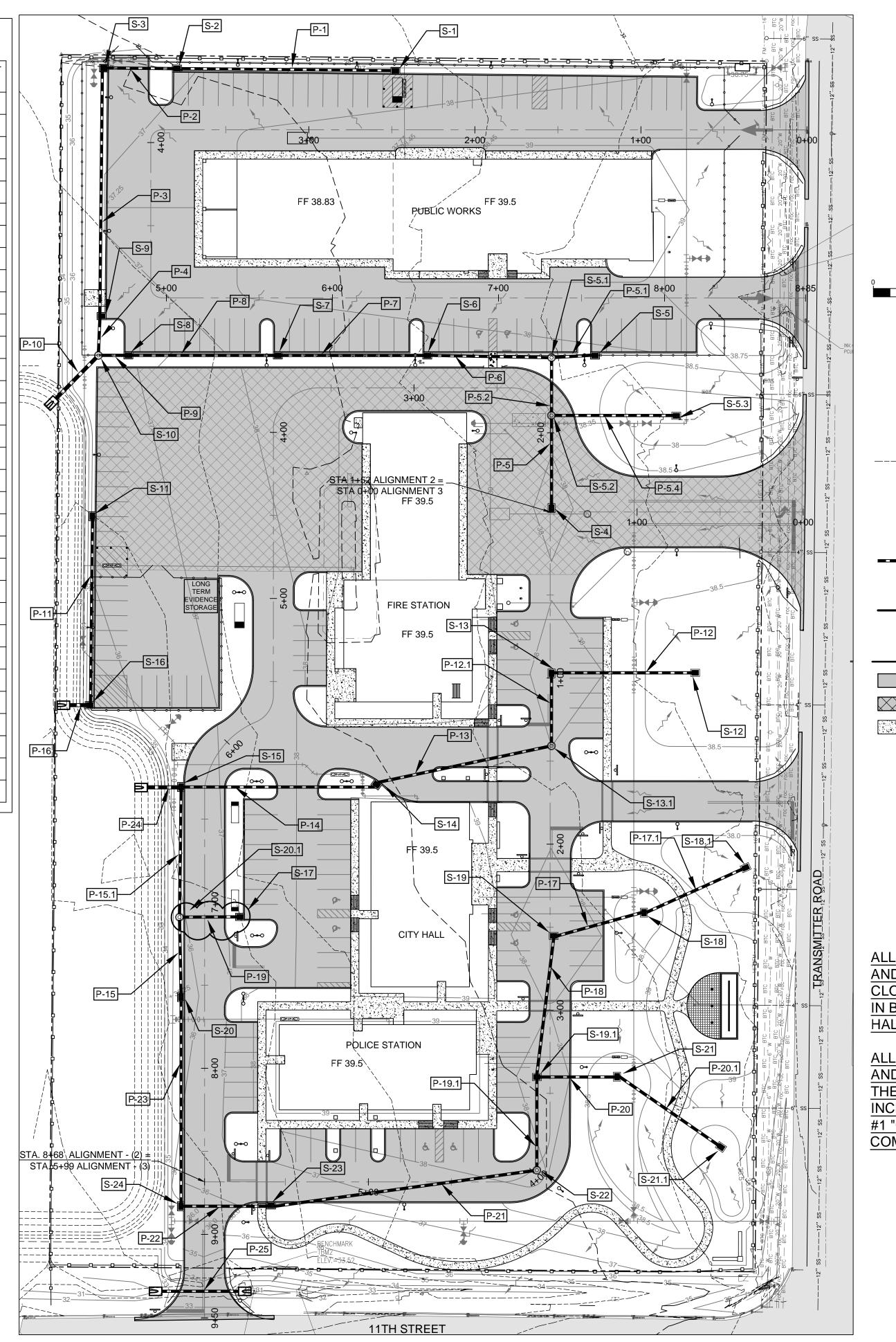
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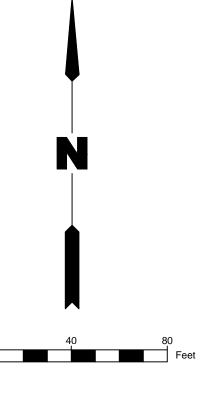
MOT

	DRAINAGE PIPE INFORMATION						
NO.	TYPE	L.F.	SIZE	% SLOPE	INV. IN	INV. OUT	
P-1	RCP CL III	138	15"	0.20	32.52	32.24	
P-2	RCP CL III	40	15"	0.20	32.24	32.16	
P-3	RCP CL III	146	18"	0.20	31.91	31.62	
P-4	RCP CL III	20	18"	0.20	31.62	31.58	
P-5	RCP CL III	56	18"	0.20	32.26	32.19	
P-5.1	RCP CL III	19	15"	0.20	32.38	32.34	
P-5.2	RCP CL III	30	15"	0.20	32.19	32.06	
P-5.4	RCP CL III	74	15"	0.20	32.50	32.19	
P-6	RCP CL III	66	18"	0.20	32.09	31.96	
P-7	RCP CL III	85	18"	0.20	31.96	31.79	
P-8	RCP CL III	85	18"	0.20	31.79	31.62	
P-9	RCP CL III	16	18"	0.20	31.62	31.58	
P-10	RCP CL III W/ CROSS DRAIN MES	42	30"	5.67	30.83	28.45	
P-11	RCP CL III	110	24"	0.20	31.53	32.32	
P-12	RCP CL III	68	15"	0.00	32.76	32.76	
P-12.1	RCP CL III	40	15"	0.00	32.76	32.76	
P-13	RCP CL III	105	15"	0.20	32.76	32.55	
P-14	RCP CL III	122	18"	0.20	32.30	32.06	
P-15	RCP CL III	48	24"	0.20	31.78	31.68	
P-15.1	RCP CL III	62	24"	0.20	31.68	31.56	
P-16	RCP CL III W/ CROSS DRAIN MES	34	18"	4.76	31.07	23.00	
P-17	RCP CL III	84	15"	0.20	33.31	33.31	
P-17.1	RCP CL III	61	15"	0.20	33.50	33.31	
P-18	RCP CL III	84	15"	0.20	33.31	33.31	
P-19	RCP CL III	36	15"	0.20	32.50	32.43	
P-19.1	RCP CL III	54	18"	0.20	33.06	32.95	
P-20	RCP CL III	44	15"	0.20	33.40	33.31	
P-20.1	RCP CL III	54	15"	0.20	33.50	33.40	
P-21	RCP CL III	158	15"	0.20	32.95	32.63	
P-22	RCP CL III	56	18"	0.20	32.63	32.52	
P-23	RCP CL III	121	18"	0.20	32.02	31.78	
P-24	RCP CL III W/ CROSS DRAIN MES	28	30"	3.75	29.5	28.45	
			I	I			

	DRAINAGE STRU	JCTU	IRE I	NFO	RMA	TION	<u> </u>
NO.	STRUCTURE DESCRIPTION	TOP ELEV.	INV. N	INV. S	INV. E	INV. W	INLET INV.
S-1	FDOT TYPE C INLET	37.50				32.52	32.02
S-2	FDOT TYPE C INLET	36.90			32.24	32.24	31.74
S-3	FDOT TYPE C INLET	36.75		31.91	32.16		31.41
S-4	FDOT TYPE C INLET	37.90	32.26				31.76
S-5	FDOT TYPE C INLET	37.95				32.38	31.88
S-5.1	FDOT 48" STORM MANHOLE	39.00		32.15	32.34	32.09	31.59
S-5.2	FDOT 48" STORM MANHOLE	38.50	32.15	32.15	32.15		31.65
S-5.3	FDOT TYPE C INLET	37.75				32.20	31.70
S-6	FDOT TYPE C INLET	37.50		31.96	31.96		31.46
S-7	FDOT TYPE C INLET	37.25			31.79	31.79	31.29
S-8	FDOT TYPE C INLET	36.50			31.62	31.62	31.12
S-9	FDOT TYPE C INLET	36.50	31.62	31.62			31.12
S-10	FDOT 48" STORM MANHOLE	37.50	30.83	31.58	31.58		30.33
S-11	FDOT TYPE C INLET	36.30		31.53			31.03
S-12	FDOT TYPE C INLET	38.25			1	32.76	32.26
S-13	FDOT TYPE C INLET	37.50			32.76	32.76	32.26
S-13.1	FDOT 48" STORM MANHOLE	38.00			32.76	32.76	32.26
S-14	FDOT TYPE C INLET	38.35			32.55	32.30	31.80
S-15	FDOT TYPE D INLET	36.30		31.56	32.06	29.50	29.00
S-16	FDOT TYPE C INLET	35.75	32.32		1	31.07	30.57
S-17	FDOT TYPE C INLET	37.40			1	32.50	32.00
S-18	FDOT TYPE C INLET	38.35				33.59	33.09
S-18.1	FDOT TYPE C INLET	37.50				33.72	33.22
S-19	FDOT TYPE C INLET	37.50			33.48	33.48	32.98
S-19.1	FDOT TYPE C INLET	37.50	33.31	33.06	33.31		32.56
S-20	FDOT TYPE D INLET	35.75	31.78	31.78	1		31.38
S-20.1	48" STORM DRAIN MANHOLE	36.50	31.68	31.68	32.43		31.18
S-21	FDOT TYPE C INLET	38.25			33.40	33.40	32.90
S-21.1	FDOT TYPE C INLET	38.25				33.55	33.05
S-22	FDOT 48" STORM MANHOLE	38.10	32.95			32.95	32.45
S-23	FDOT TYPE C INLET	36.75			32.63	32.63	32.13
S-24	FDOT TYPE C INLET	35.75	32.02		32.52		31.52







LEGEND

EXISTING SEWER MANHOLE ————12" ss— EXISTING GRAVITY SEWER

> NEW STORM DRAIN INLET NEW STORM DRAIN MANHOLE

NEW MITERED END SECTION

NEW STORM DRAIN PIPE

NEW SEWER MANHOLE NEW GRAVITY SEWER

NEW GATE VALVE **NEW WATER LINE NEW ASPHALT**

NEW HD ASPHALT NEW CONCRETE

ALL STORM DRAIN PIPING AND INLET WORK INSIDE THE CLOUD SHALL BE INCLUDED IN BID SCHEDULE #2 "CITY HALL - CITY COMPLEX".

ALL STORM DRAIN PIPING AND INLET WORK OUTSIDE THE CLOUD SHALL BE INCLUDED IN BID SCHEDULE #1 "CIVIL SITE WORK - CITY COMPLEX"

MOTT COMPLE

1141 TRANSMITTER RD SPRINGFIELD, FLORIDA 32401

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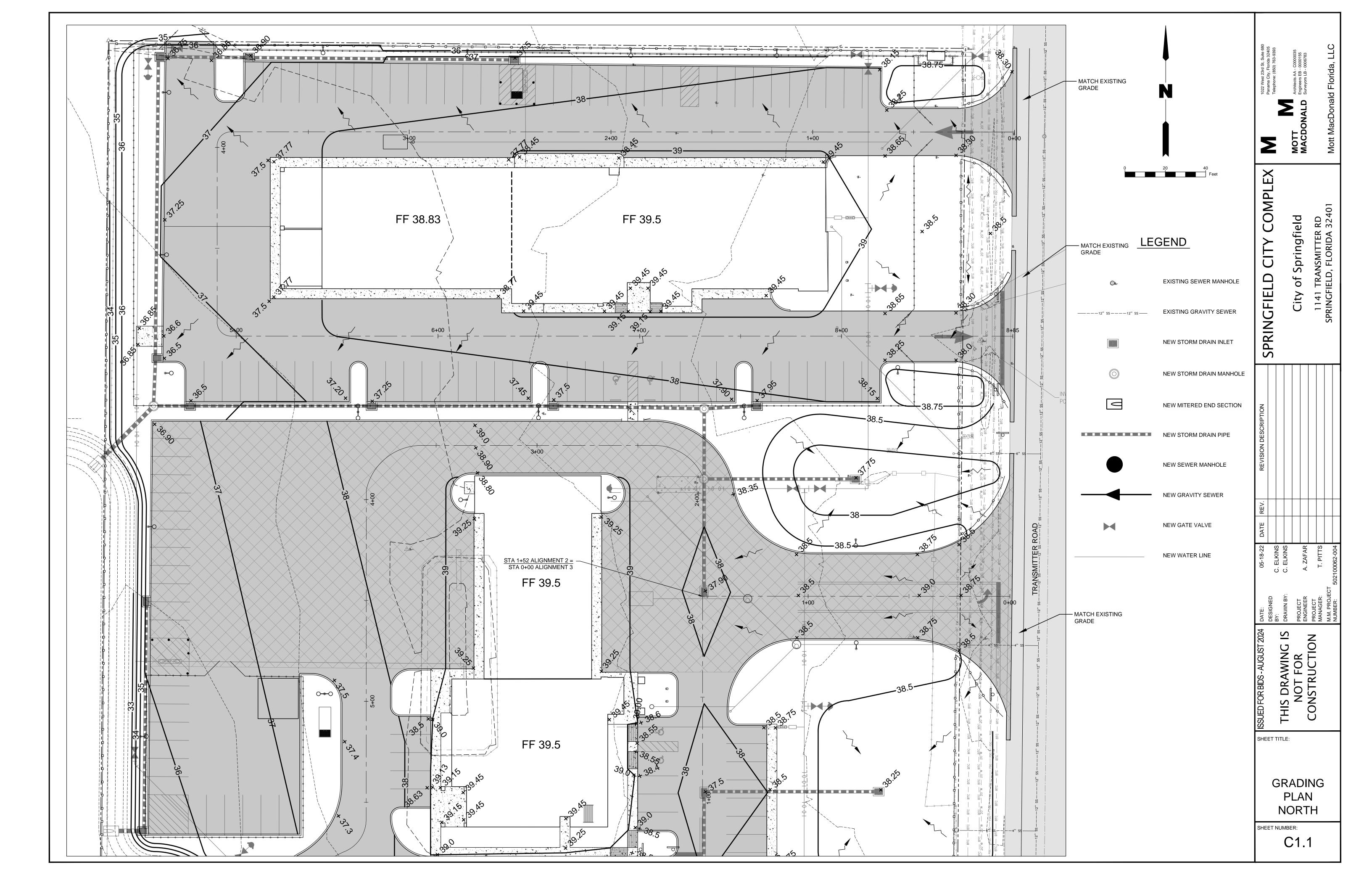
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NOT FOR
CONSTRUCTION

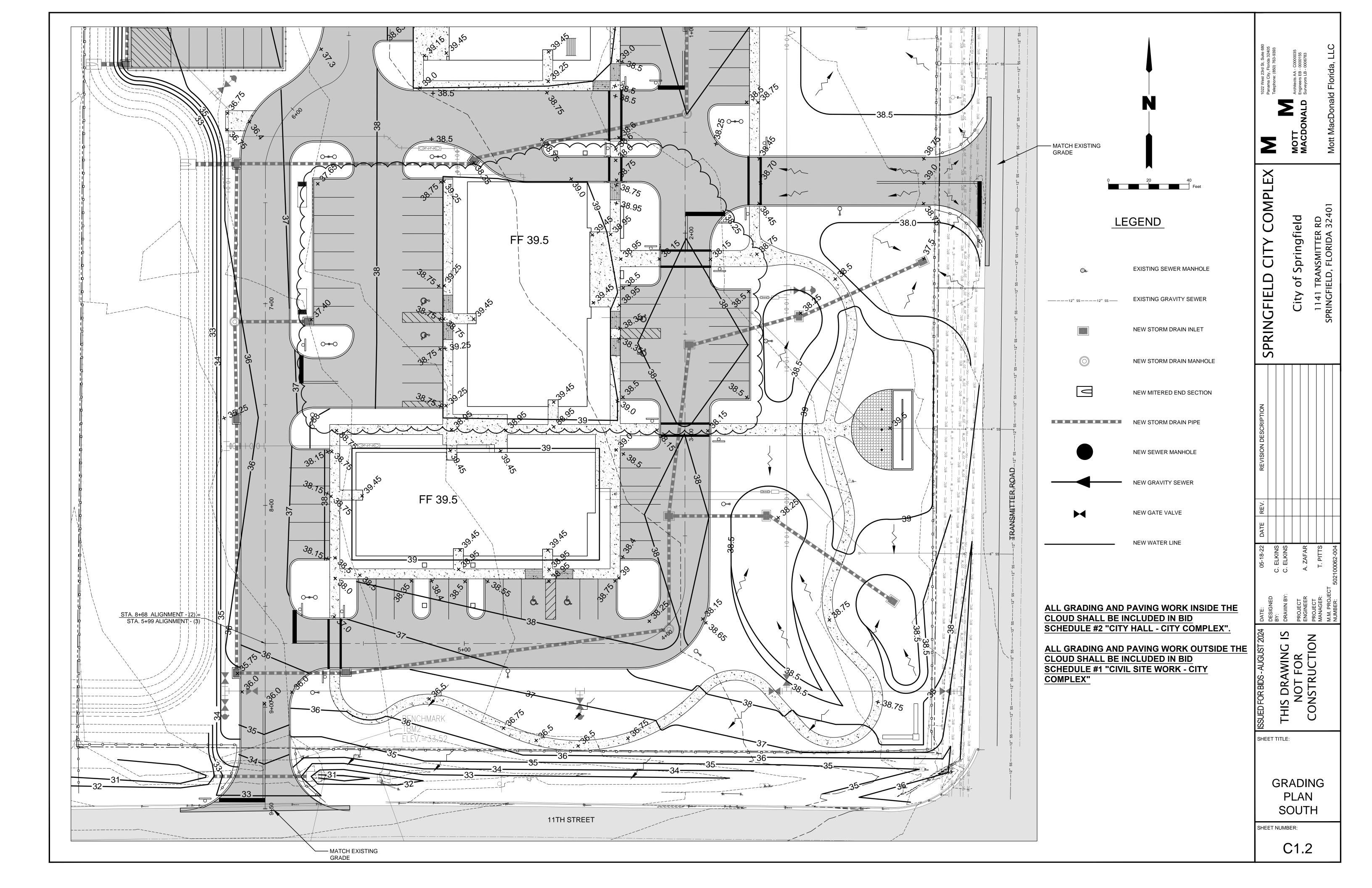
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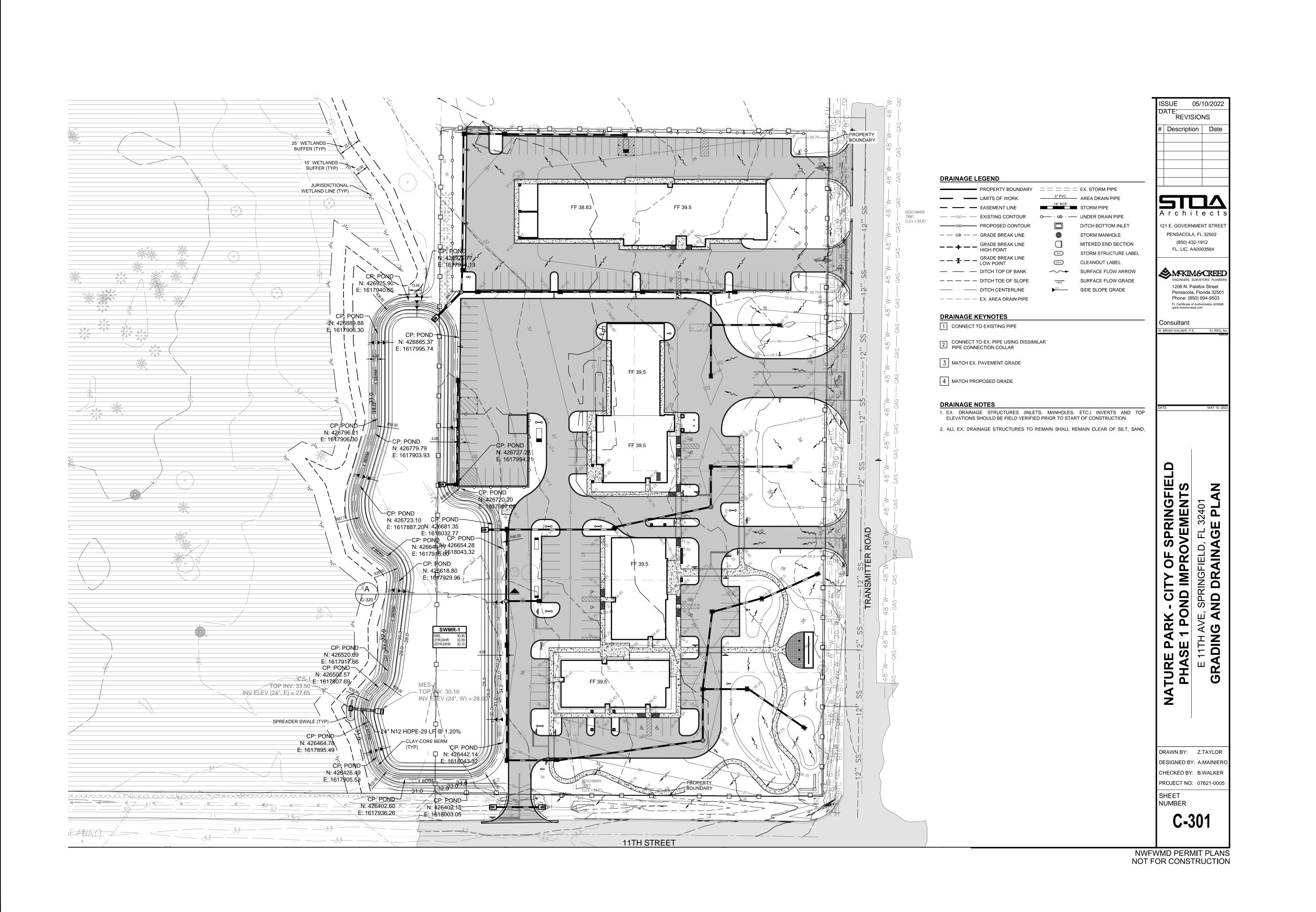
GRADING AND PIPING PLAN

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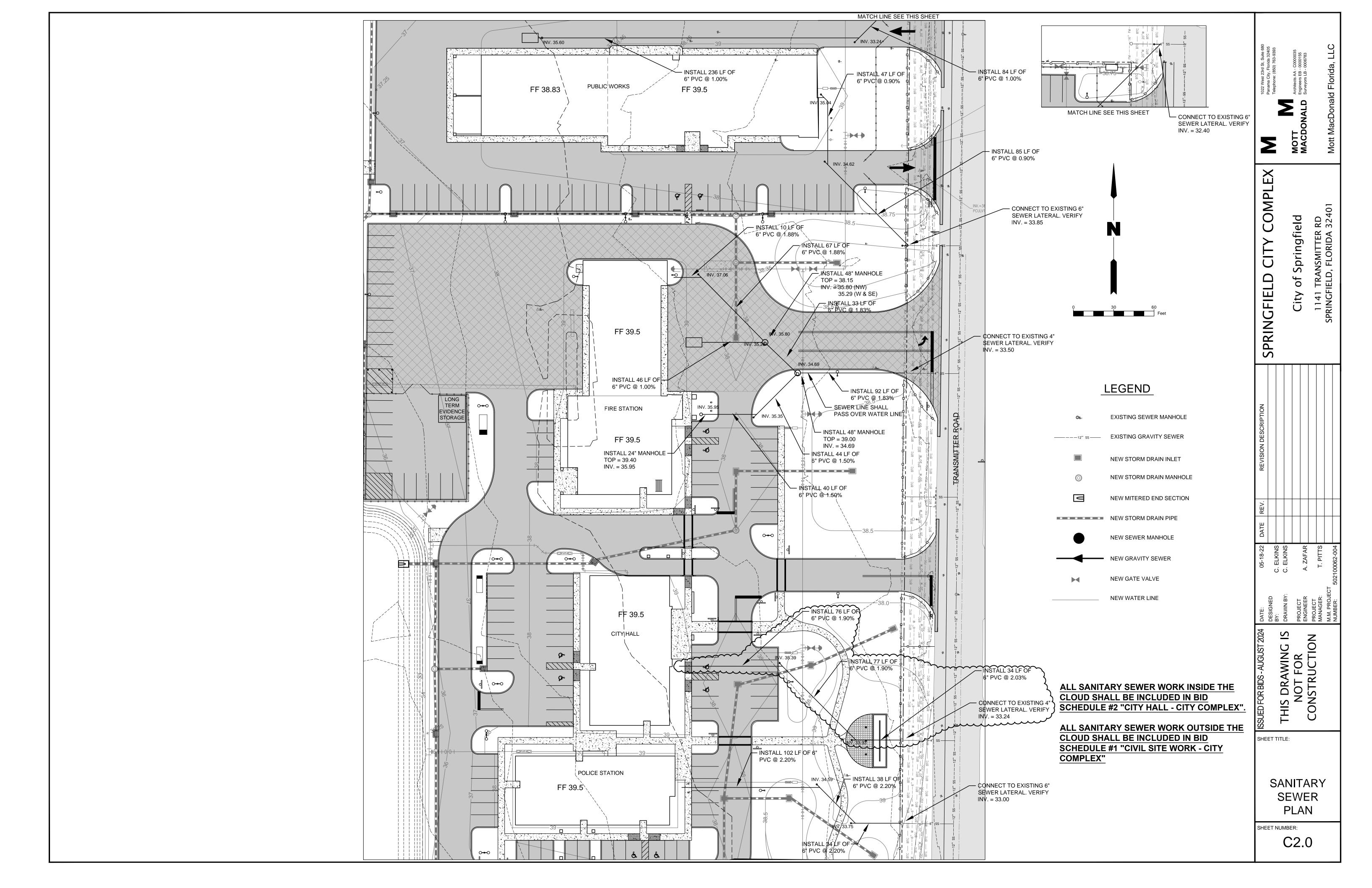


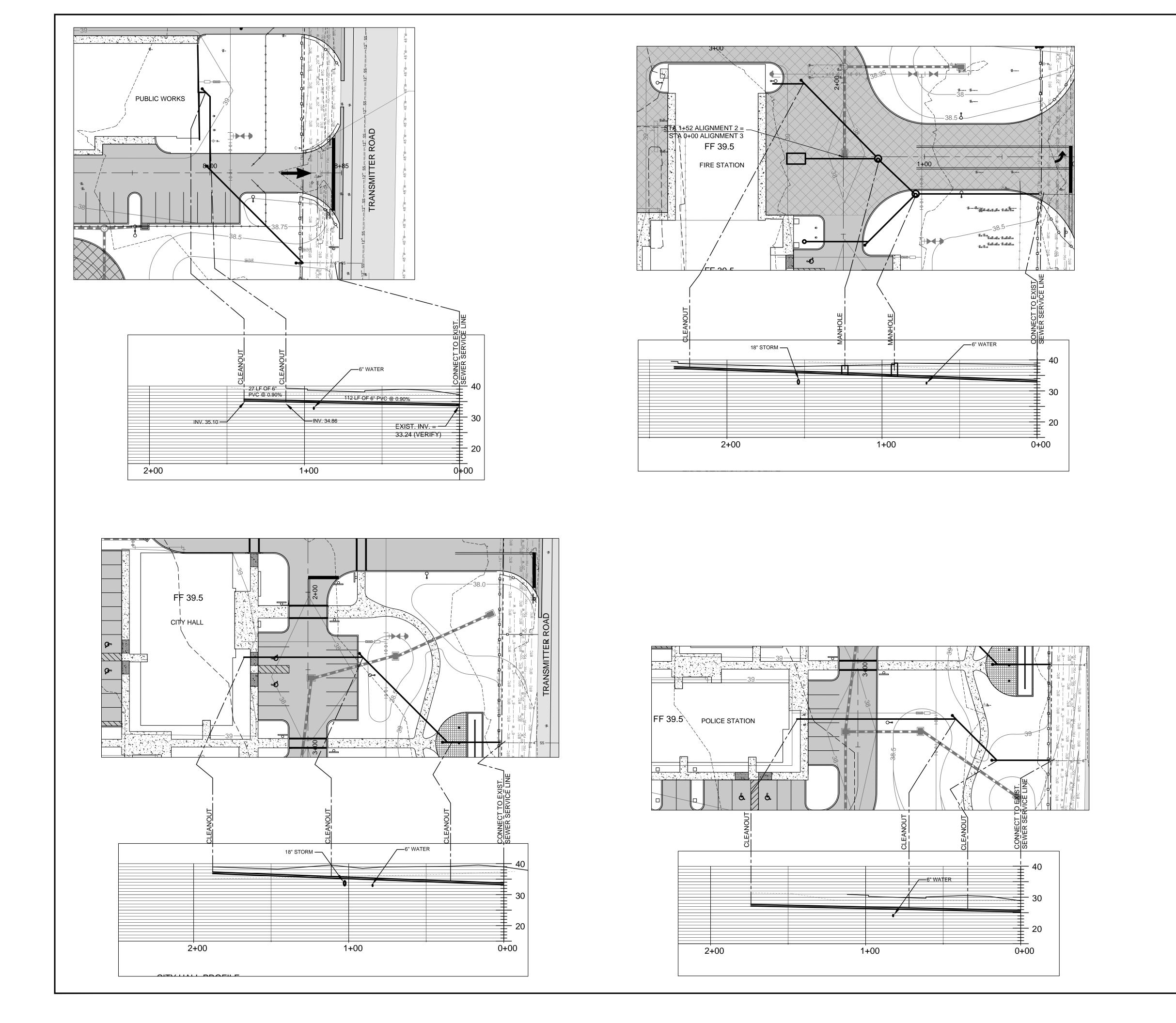
COMPLEX 1141 TRANSMITTER RD SPRINGFIELD, FLORIDA 32401 Springfield SPRINGFIELD of THIS DRAWING IS
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CONSTRUCTION SHEET TITLE: GRADING PLAN

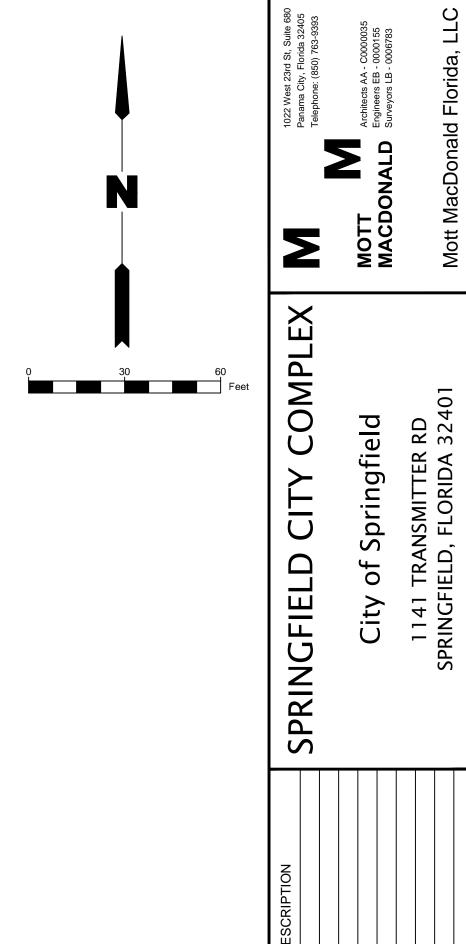
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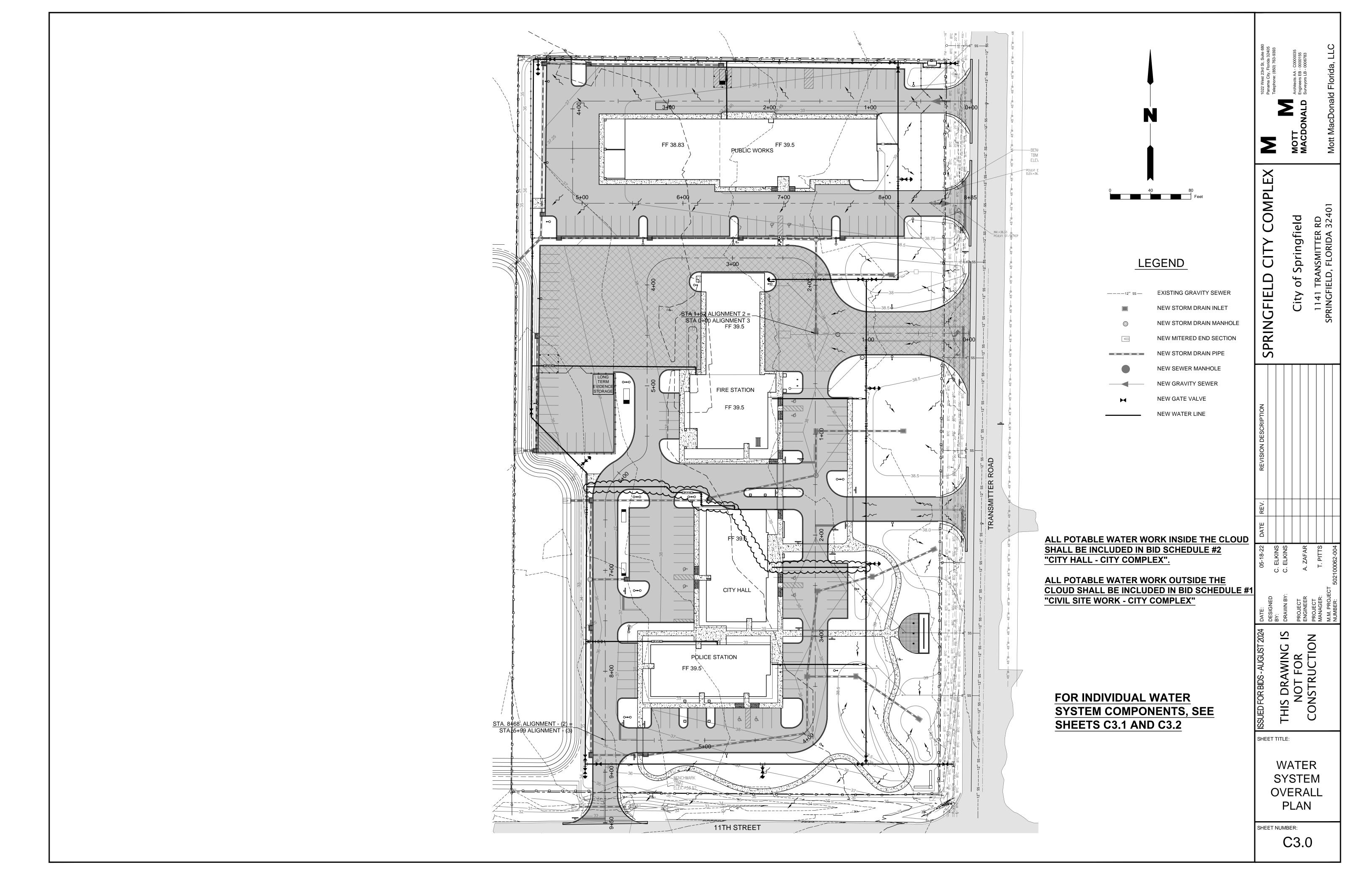
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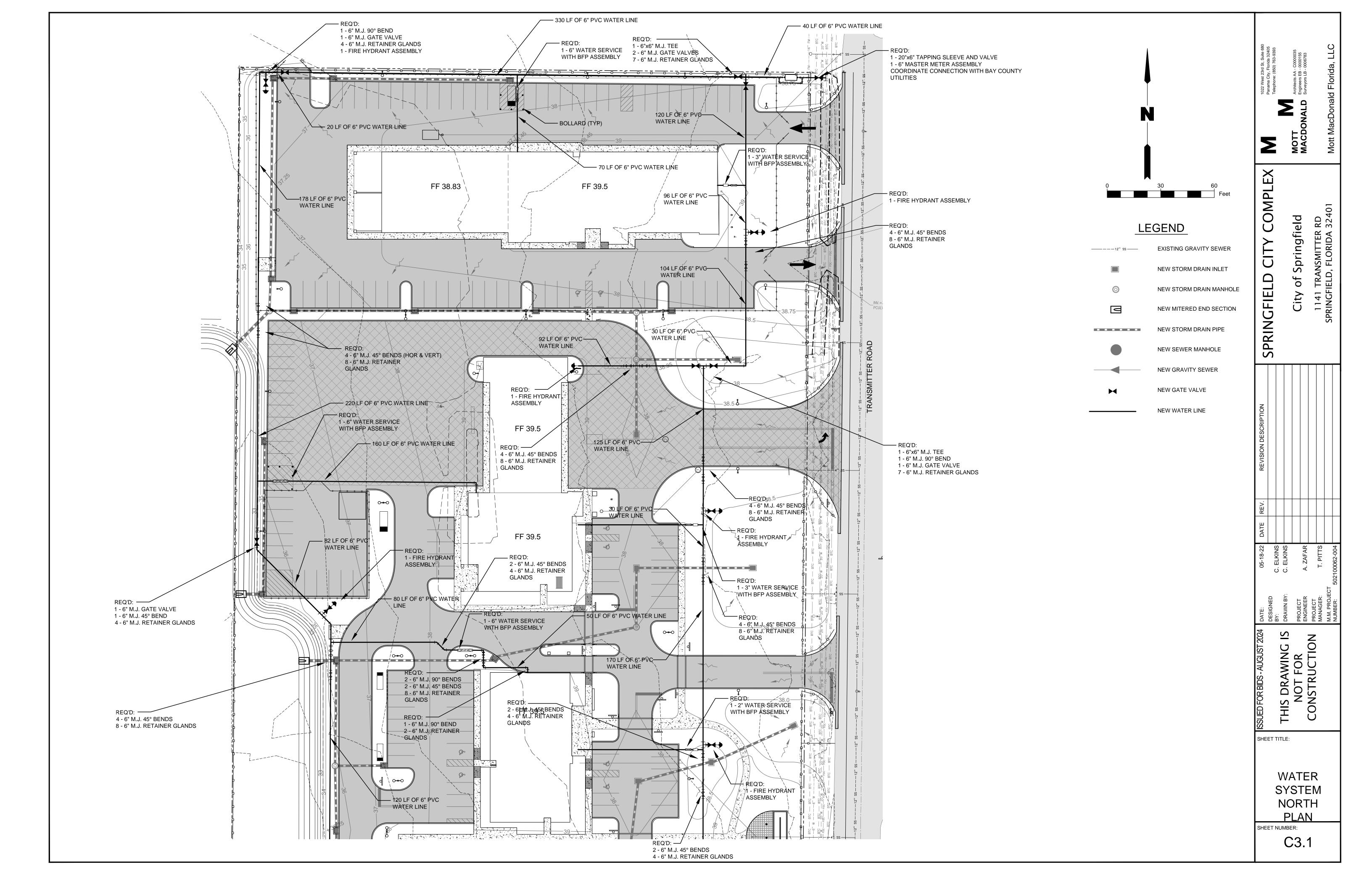
PROFILES

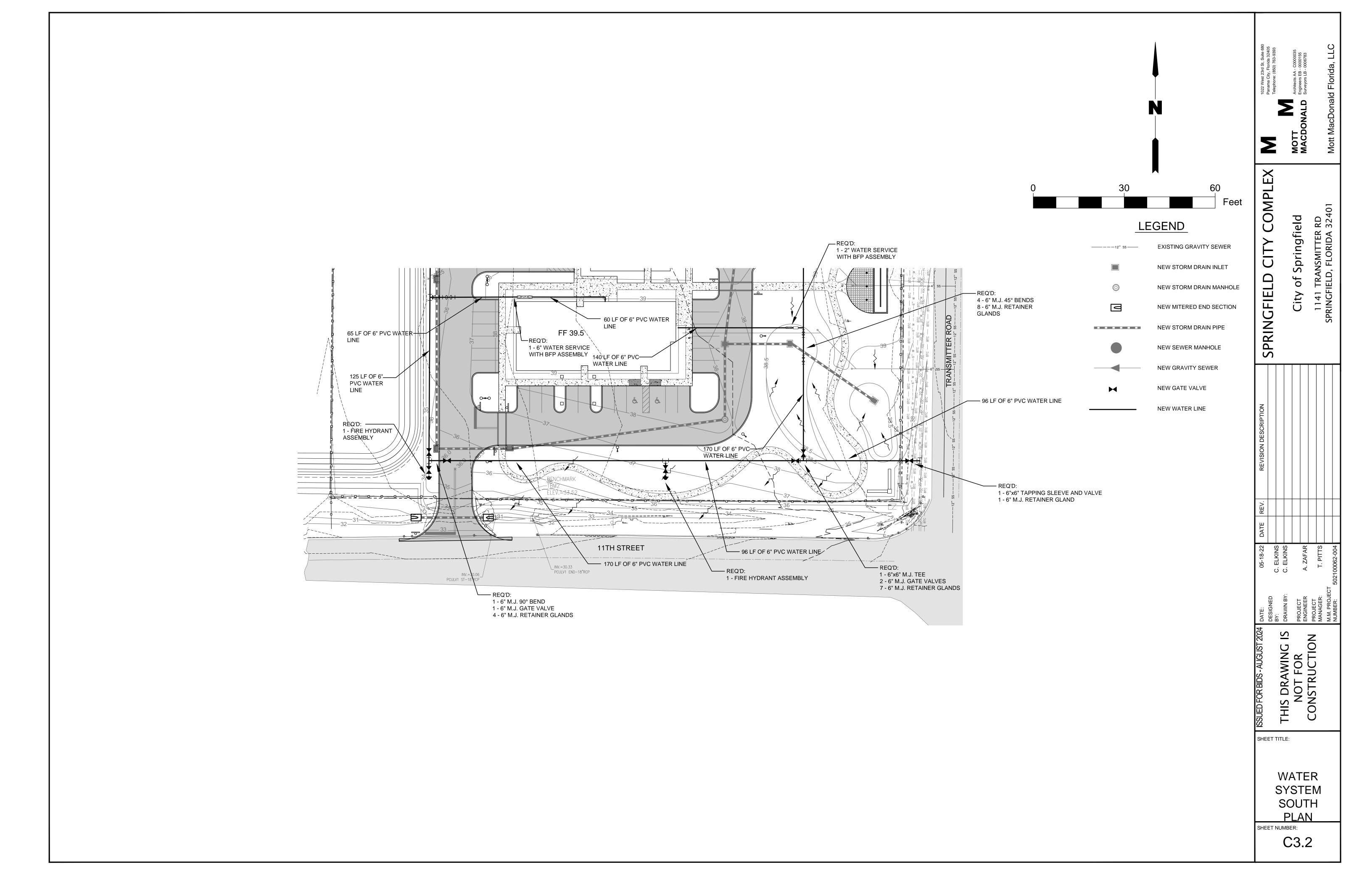
C2.1

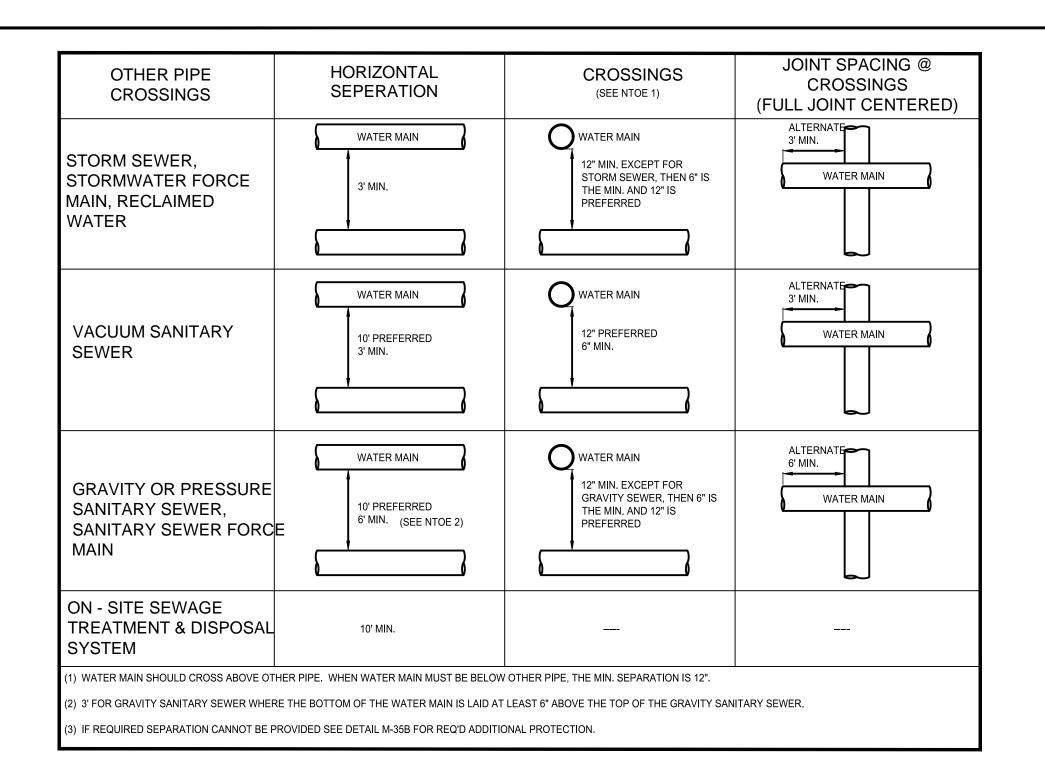
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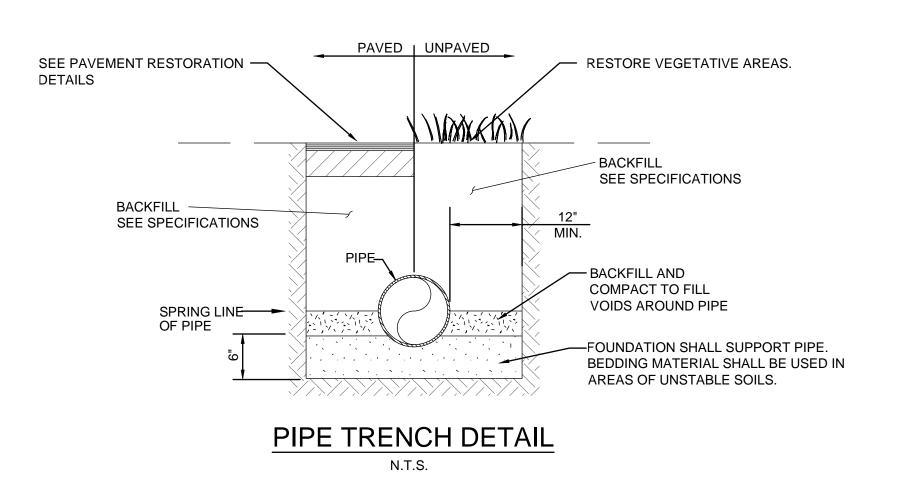
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- 6" MECHANICAL JOINT GATE VALVE **6" MECHANICAL JOINT** RETAINER GLAND L = = = |= = = : 6" PIPE - LENGTH AS REQUIRED FIRE HYDRANT SIZE OF MAIN X 6" ANCHORING TEE

- FIRE HYDRANT SHALL BE SUPPLIED WITH A WEEP HOLE.
- THE SHEAR PAD MAY BE RECESSED UP TO 6 INCHES BELOW FINISHED GRADE. CLEARANCE BETWEEN BOTTOM OF BOLTS AND TOP OF SHEAR PAD SHALL BE A 4" MINIMUM.
- HYDRANT SHALL BE AVK MODEL 2780 NOSTALGIC, AMERICAN DARLING B-84-B, CLOW MEDALLION OR US FIRE HYDRANT, MODEL SENTINEL 250 WITH SS VALVE ROD.
- A WEATHER SHIELD SHALL BE PROVIDED TO PROTECT OPERATING STEM OR NUT.
- THE HYDRANT'S UPPER AND LOWER STEM, BREAK COUPLING. INTERNAL PINS AND CLIPS. AND ALL
- EXTERNAL BOLTING SHALL BE MANUFACTURED OF 304 OR 316 STAINLESS STEEL. 7. BLUE REFLECTIVE PAVEMENT MARKER SHALL BE PLACED IN ROAD OR DRIVE NEAR CENTERLINE TO
- IDENTIFY LOCATION OF FIRE HYDRANT.

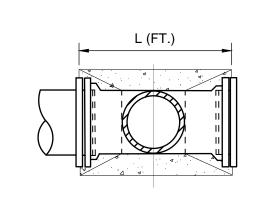
FIRE HYDRANT CONNECTION TO WATER MAIN (TYPICAL)

N.T.S.

DO NOT PERMIT FIRE HYDRANT DRAIN PIT TO BE SUBMERGED IN ANY STREAM OR TO BE WITHIN 5' OF ANY SANITARY SEWER. LOWER FIRE HYDRANT BARREL FIRE HYDRANT DRAIN 12" X 12" X 4" PRECAST CONCRETE 12" COARSE GRAVEL OR 2'-0" DIA. BROKEN STONE MIXED WITH COARSE SAND.

NOTE: THRUST BLOCK CONCRETE THRUST BLOCK-SIZE SHALL BEAR AGAINST TO SUIT ACTUAL SOIL UNDISTURBED SOIL. CONDITIONS IN THE FIELD. SEE CONCRETE THRUST BLOCK TABLE FOR MINIMUM THRUST BLOCK AREA. TO SUIT ACTUAL SOIL THRUST BLOCK SHALL BEAR AGAINST UNDISTURBED CONDITIONS IN THE FIELD. SEE TABLE FOR MINIMUM-THRUST BLOCK AREA. LOCATION OF THRUST **BLOCK INSTALLATION SHALL** MECHANICAL BE DETERMINED IN THE <u>PLAN</u> <u>PLAN</u> TYPICAL THRUST BLOCKS MINIMUM THRUST BLOCK AREA SQ. FT. L (FT.) X H (FT.)

TEES, DEAD ENDS, INSIDE DIA. PIPE 90° BENDS 22½° BENDS OR 45° BENDS LINE IN INCHES 1.0 2.2 4.0 1.5 6.0 2.5 10" 8.5 12" 9.0 3.5 16" 16.0 6.0 22.0 18" 27-0 20.0 8.0 20" 10.0 24.0 24" 34.0 14.0 30" 53.0 21.0 SECTION A-A



SECTION B-B

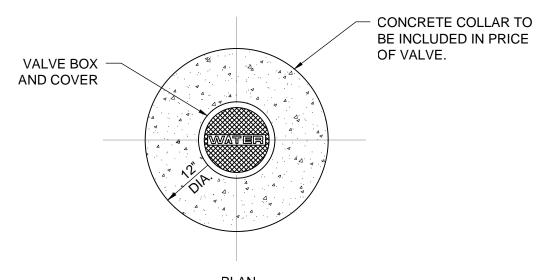
TYPICAL THRUST BLOCK DETAIL

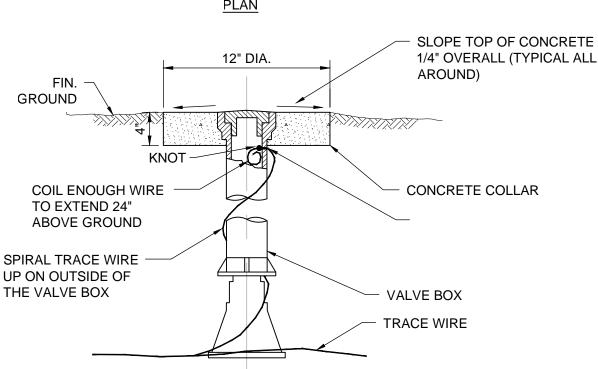
PIPE JOINT RESTRAINT TABULATION - FORCE MAIN (ALL RESTRAINT JOINT LENGTHS SHOWN ARE IN FEET)

SOURCE: EBAA RESTRAINED JOINT LENGTH PROGRAM VERSION 4.0

				НО	RIZONT	AL BEND)S				
	EV	ERY JOI				SPECIFIE H SIDES (W (IN FEE FITTING	T) SHAL	L BE	
PIPE SIZE AND TYPE		90 D	eg.	45 Deg.		22.5 Deg.		11.25 Deg.		DEAD ENDS	
3" F	PVC	18	3	7	,	4		2		40	
4" F	PVC	22	2	9)	4		2		48	
6" F		30)	1;	3	6		3		68	
8" F		40		1(6	8		4		89	
10" F		47		19		9		5		106	
12" F		55		2:		11		5		12	
14" F 16" F	-	62		20		12		6		140	
18" F		70 77		29 32		14 15		<u>7</u> 8		16 ² 179	
20" F				3.		17		<u>o</u> 8		198	
24" P		96		4(19		10		228	
SMALLE SIZE	R PIPE	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"
	3"	-	-	-	-	-	-	-	-	-	-
Ê	4"	15	-	-	-	-	-	-	-	-	-
N N	6"	45	35	-	-	-	-	-	-	-	-
UCER RESTRAINT)	8"	72	64	37	-	-	-	-	-	-	-
REDUCER PIPE RESTE	10"	93	86	65	36	-	-	-	-	-	-
RED IPE	12"	114	109	91	66	61	-	-	-	-	-
R P	14"	133	129	114	93	89	37	-	-	-	-
₹GE	16"	153	140	136	118	114	68	37	-	-	-
(LARGER	18"	171	168	156	140	132	97	69	36	-	-
	20"	189	186	175	161	158	122	97	69	36	-
	RANCH ZE	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"
	3"	21	-	-	-	-	-	-	-	-	-
	4"	17	29	-	-	-	-	-	-	-	-
Ĺ	6"	7	20	47	-	-	-	-	-	-	-
E AIN	8"	1	12	42	69	-	-	-	-	-	-
SIZ STR	10"	1	2	35	64	84	-	-	-	-	-
KUN RE	12"	1	1	29	59	80	102	-	-	-	-
TEE RUN SIZE (BRANCH RESTRAINT)	14"	1	1	22	54	76	98	118	-	-	-
TE ZAN	16"	1	1	15	48	72	95	115	135	-	-
(BF	18"	1	1	7	43	67	91	112	113	151	-
	20"	1	1	1	37	62	87	109	130	149	168

- 1. TEST PRESSURE=150 PSI, SOIL GROUP=SM, TRENCH TYPE=2.5, DEPTH=3, SAFETY FACTOR=1.5 2. RESTRAINED LENGTHS FOR VERTICAL OFFSETS MUST BE INDIVIDUALLY CALCULATED.
- 3. MINIMUM PIPE LENGTH ALONG TEE RUN=5FEET OR LARGER. 4. ALWAYS ROUND UP PARTIAL LENGTHS TO THE NEXT PIPE JOINT.





VALVE BOX COLLAR DETAIL

<u>SECTION</u>

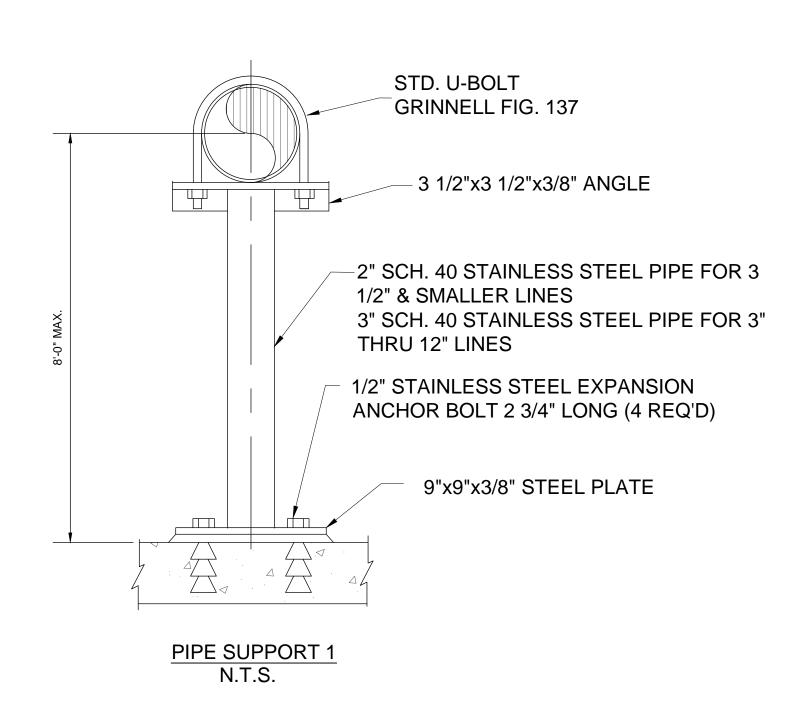
COMPLEX 1141 TRANSMITTER RD SPRINGFIELD, FLORIDA 32401 Springfield SPRINGFIELD THIS DRAWING IS
NOT FOR
CONSTRUCTION SHEET TITLE: CIVIL **DETAILS**

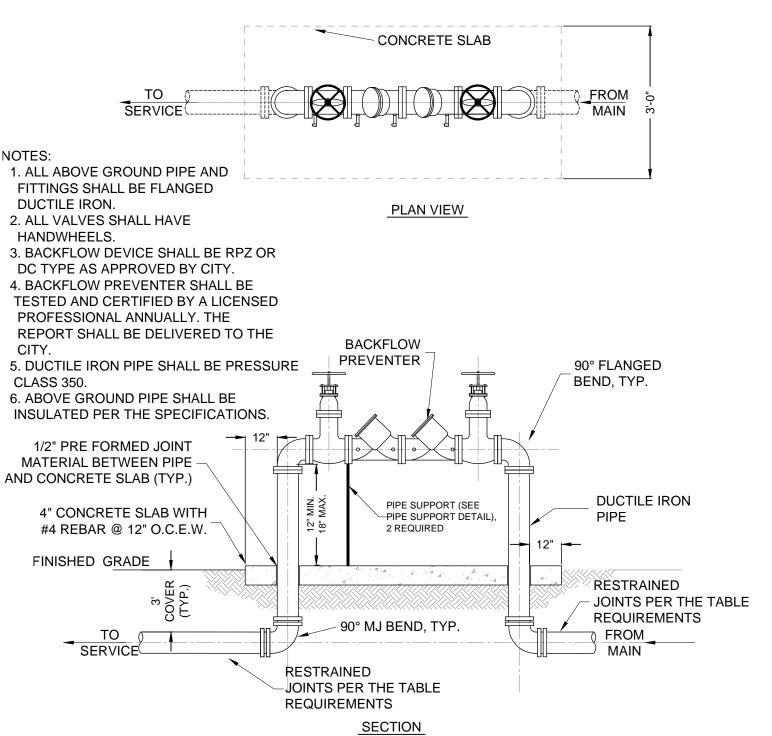
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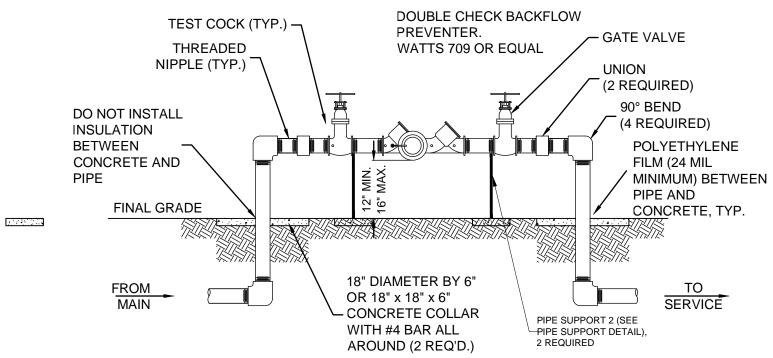
TYPICAL FIRE HYDRANT DRAIN PIT

N.T.S.



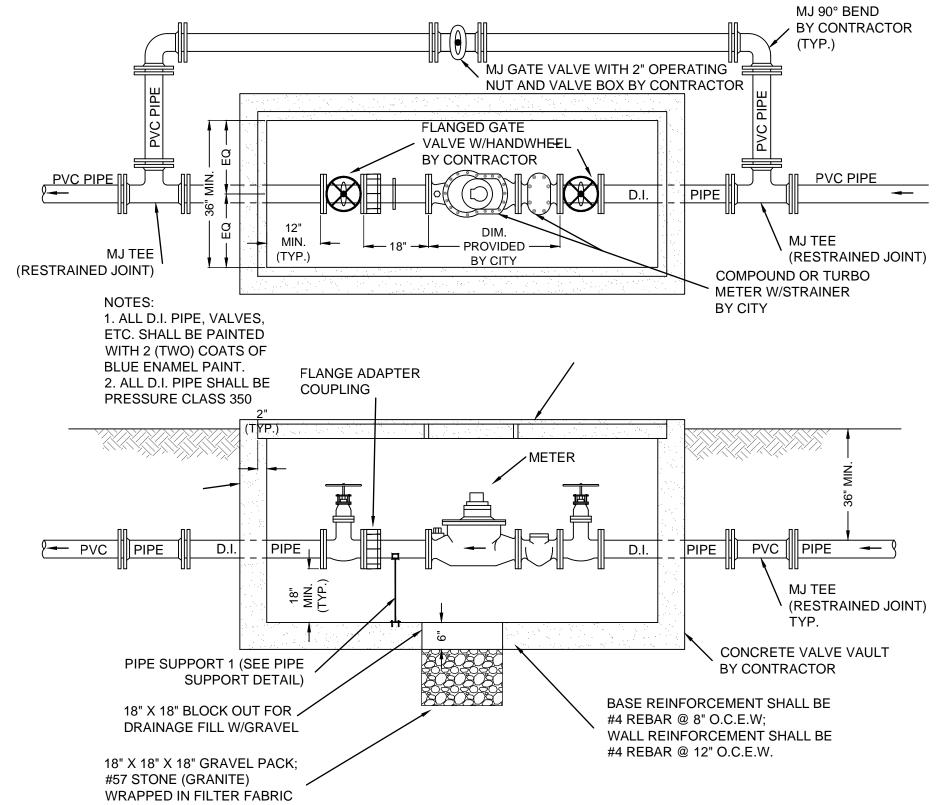


BACKFLOW PREVENTER - 4" AND LARGER



- 1. ALL ABOVEGROUND PIPE SHALL BE INSULATED WITH 6 LBS FIBERGLASS THAT HAS A MINIMUM "K" OF 0.23 @ 75°F AND A NOMINAL THICKNESS OF 1". THE FIBERGLASS SHALL BE 25 ASJ/SSL-11 FIBERGLASS WITH DOUBLE SEALING LAP SEAL, AS MANUFACTURED BY OWENS-CORNING, OR EQUAL. COVER THE FIBERGLASS WITH 0.016" - 0.040" THICK (DEPENDING ON PIPE DIAMETER) CORRUGATED ALUMINUM JACKET WITH POLY-WELD LININGS, AS MANUFACTURED BY PABCO / CHILDERS, OR EQUAL. IN LIEU OF INSULATION WRAP, AN APPROVED, INSULATED ENCLOSURE MAY BE PROVIDED. THE BACKFLOW PREVENTER SHALL BE TESTED AND CERTIFIED BY A LICENSED
- PROFESSIONAL ANNUALLY. THE REPORT SHALL BE DELIVERED TO THE CITY PLACE POLYETHYLENE FILM (24 MIL MINIMUM) BETWEEN THE PIPE AND CONCRETE.

BACKFLOW PREVENTER - 2" AND 3"



4" - 6" WATER METER INSTALLATION

NOTES:

1.) ALL FITTINGS SHALL BE BRASS WITH COMPRESSION/PACK JOINT TYPE CONNECTIONS.

2.) NO SERVICE LINE SHALL TERMINATE UNDER A DRIVEWAY.

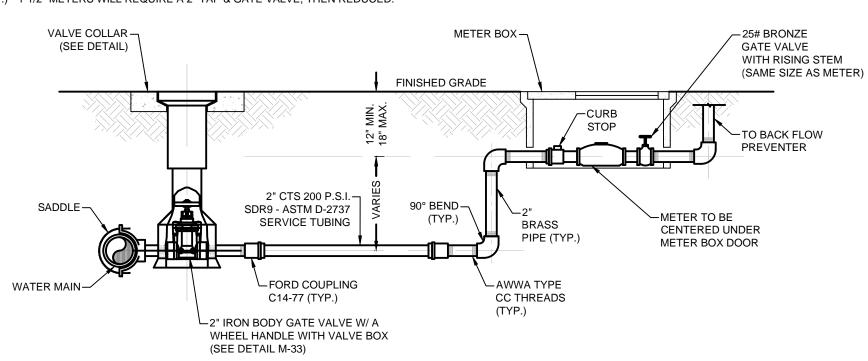
3.) EACH SERVICE SHALL TERMINATE AT A BALL VALVE WHICH SHALL BE FASTENED TO A 1" x 4" x 30" STAKE PAINTED WHITE.

4.) CURB STOP SHALL BE A 2" FORD BALL METER VALVE B11-777W OR CITY APPROVED EQUAL.

5.) ALL SERVICE TAPS TO BE LOCATED IN FIELD. TAPS SHALL BE NO CLOSER THAN 36" APART AND NOT WITHIN 24" FROM BACK OF PIPE BELL OR SPIGOT INSERTION LINE AND WILL NOT BE SET IN DRAINAGE SWALES, EASEMENTS OR SIDEWALKS.

6.) TAPPING SADDLE: MODEL FL202 FORD METER BOX CO.

7.) 1-1/2" METERS WILL REQUIRE A 2" TAP & GATE VALVE, THEN REDUCED.

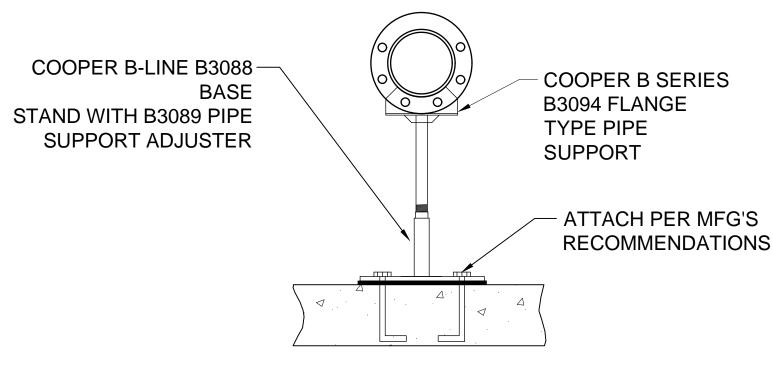


2" - 3" WATER METER INSTALLATION

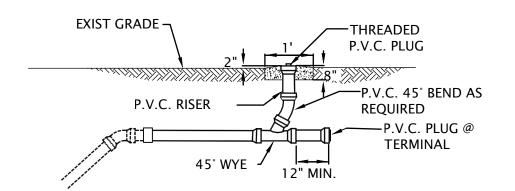
MOT COMPLEX 1141 TRANSMITTER RD SPRINGFIELD, FLORIDA 32401 Springfield SPRINGFIELD DRAWING I NOT FOR CON SHEET TITLE: CIVIL **DETAILS**

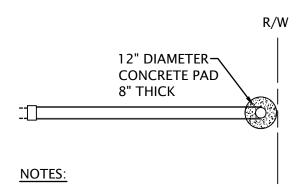
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SHEET NUMBER:



PIPE SUPPORT 2 N.T.S.

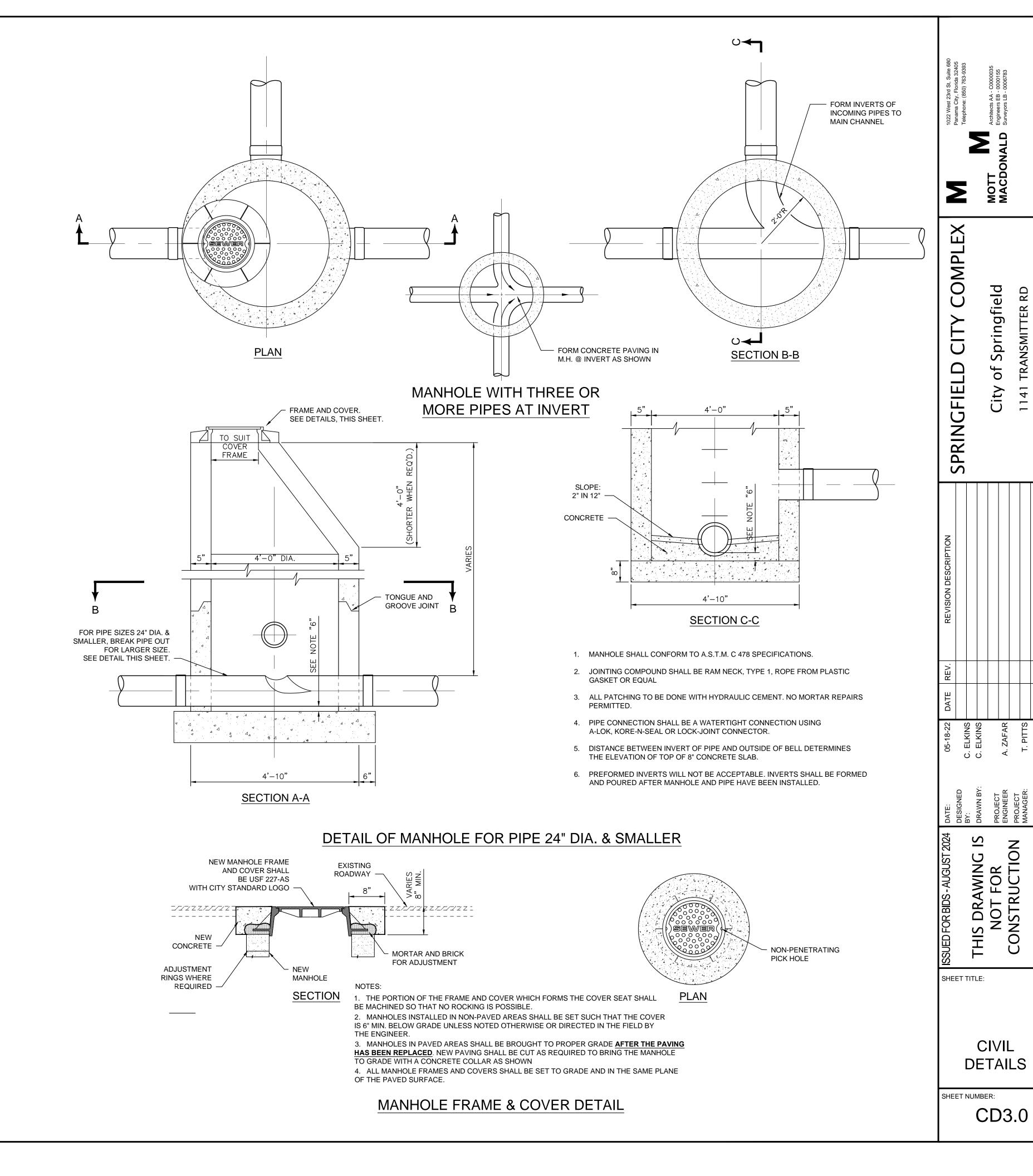


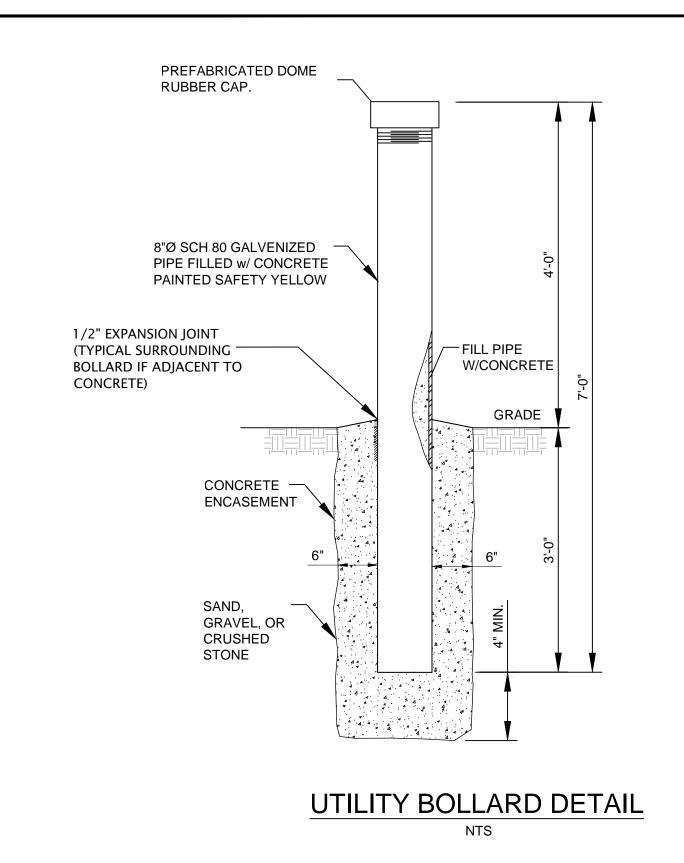


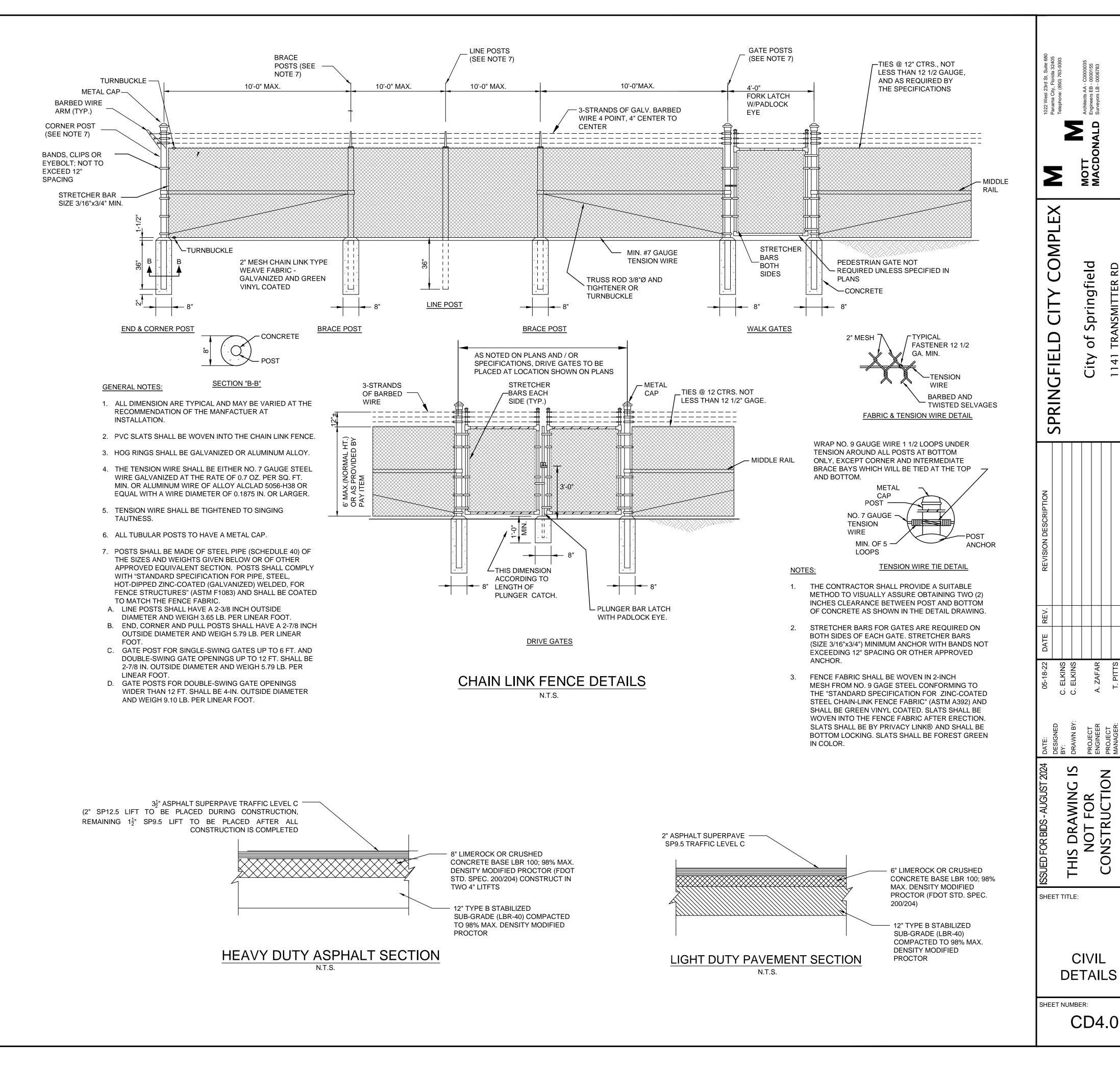
1) FOR NEW CONSTRUCTION, MARK SEWER LATERAL LOCATION IN THE FRESHLY POURED CONCRETE CURB 2) SUBMIT "AS BUILT" OF MAIN LINE, LATERALS AND MANHOLE LOCATIONS WITH TWO (2) OFFSET DISTANCES FACH

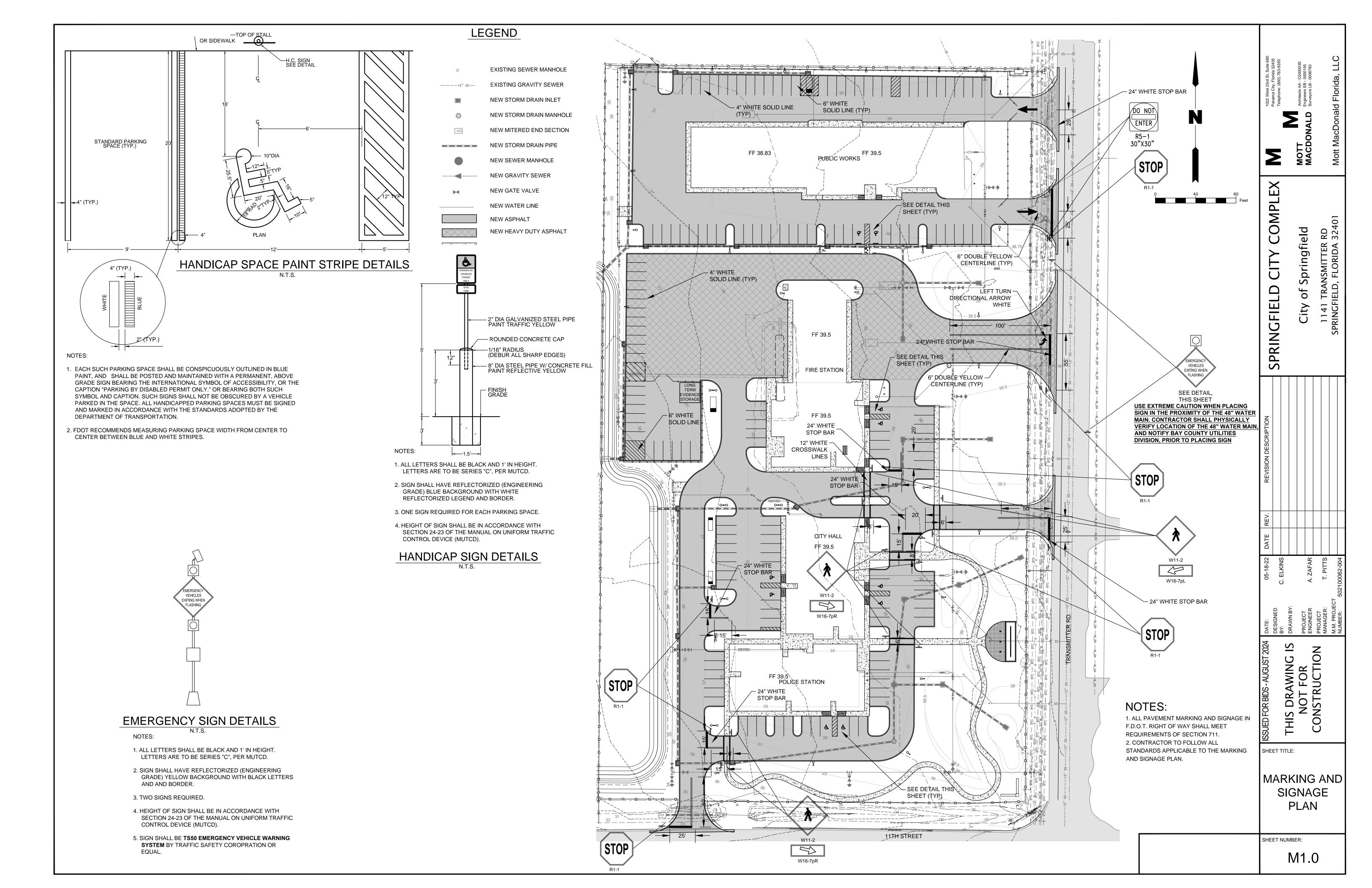
3) PIPE AND FITTINGS SHALL BE PUSH ON

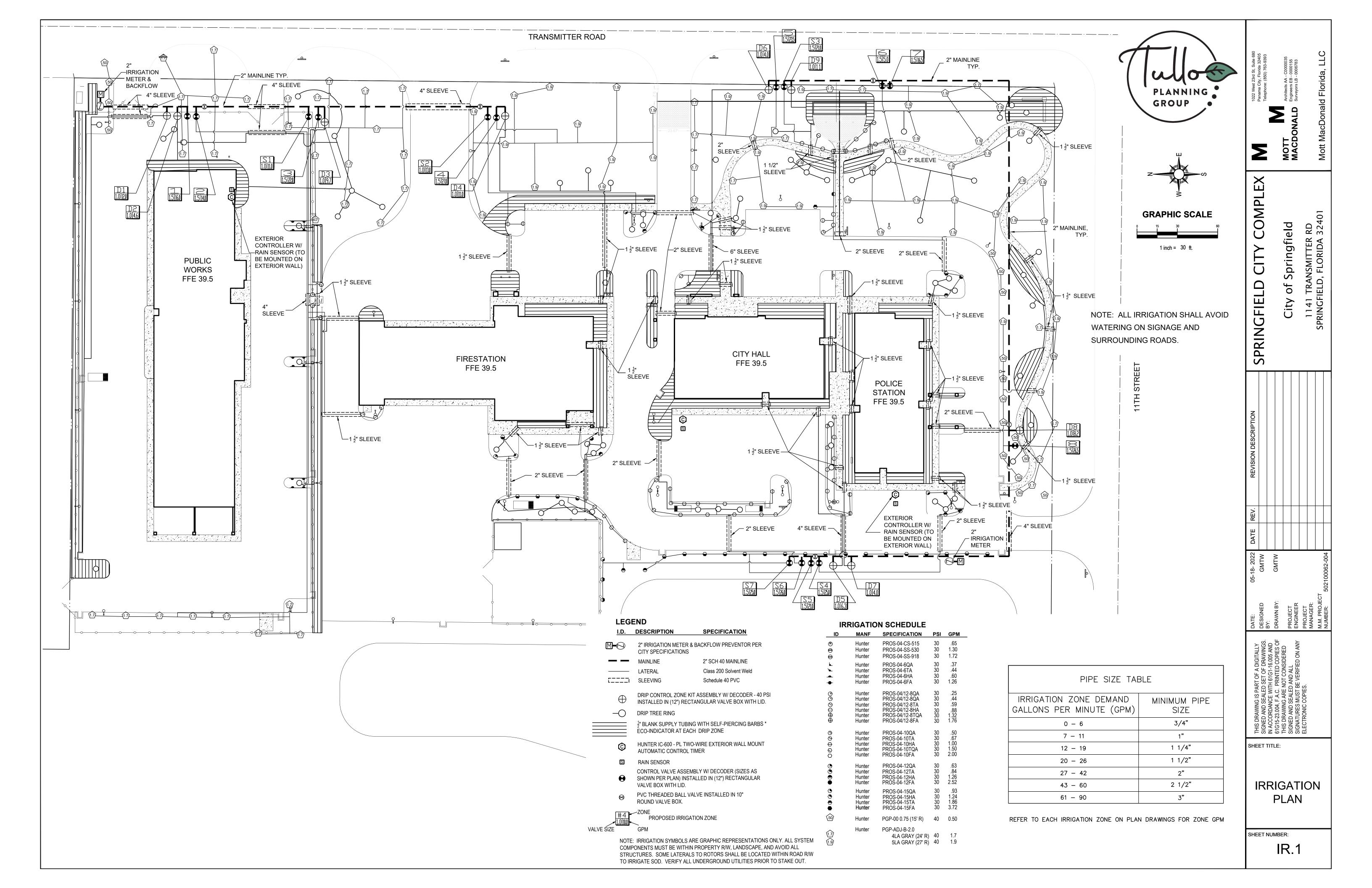
TYPICAL SERVICE LINE AND CLEANOUT INSTALLATION N.T.S.









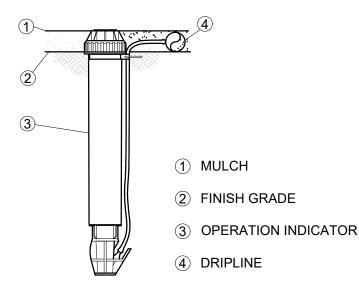


IRRIGATION SPECIFICATIONS:

- 1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE EXISTING IRRIGATION SYSTEM COMPONENTS (PRIOR LAND USE) INCLUDING BUT NOT LIMITED TO: MAINLINE PIPE, LATERAL PIPE, ROTOR HEADS, SPRAY HEADS, EMITTER TUBING VALVES, CONTROLLERS, WIRE, ETC. REPAIR DAMAGE TO EXISTING SOD AND LANDSCAPE DESIGNATED TO REMAIN TO MATCH EXISTING.
- 2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND OBTAIN POWER FOR IRRIGATION. LOCATE IRRIGATION CONTROLLER WITHIN 25 FT OF EXISTING POWER POLES. COSTS FOR OBTAINING POWER SERVICE IS TO BE INCLUDED IN THE LUMP SUM PRICE OF THE PROJECT.
- 3. POP-UP ROTOR HEADS SHALL BE INSTALLED IN AREAS WHERE THE LONG RADIUS COVERAGE INTENDED WILL NOT BE BLOCKED BY PLANT MATERIAL OR OTHER STRUCTURES (EX: SIGNS, FIRE HYDRANTS, WALLS, ETC.)
- 4. CHANGES IN HEAD PLACEMENT OR DRIP SUBSTITUTION SHOULD ALWAYS BE DONE TAKING INTO CONSIDERATION:
 - A. WHAT IS BEST FOR THE GROWTH AND MAINTENANCE OF THE SOD AND PLANT MATERIAL. B. MAINTAINING A CONSTANT AND EVEN DISTRIBUTION AND PRECIPITATION RATE. (NEVER INSTALL ROTORS,
 - SPRAYS OR BUBBLERS ON THE SAME ZONE).
 - C. THE SPACING BETWEEN HEADS SHALL NOT EXCEED 50% OF THE DIAMETER FOR HEADS SPACED ON A SQUARE PATTERN OR 60% OF THE DIAMETER FOR HEADS SPACED ON A TRIANGULAR PATTERN.
- 5. POP-UP SPRINKLER HEADS SHALL BE INSTALLED:
 - A. 3" TO 6" FROM EDGE OF CURB OR SIDEWALK. B. 12" TO 18" FROM EDGE OF PAVEMENT (WHERE NO CURB EXISTS)
 - C. FLUSH WITH FINISH GRADE.
- 6. THE CONTRACTOR SHALL STAKE OUT THE LOCATION OF EACH RUN OF PIPE, SPRINKLER HEADS, SPRINKLER VALVES PRIOR TO TRENCHING. TRENCHES FOR PIPE SHALL BE CUT TO REQUIRED GRADE LINES, AND COMPACTED TO PROVIDE ACCURATE GRADE AND UNIFORM BEARING FOR THE FULL LENGTH OF THE LINE. THE BOTTOM OF TRENCHES SHALL BE FREE OF ROCK OR OTHER SHARP EDGED OBJECTS. MINIMUM COVER SHALL BE AS FOLLOWS: PRESSURE MAINLINE 24" AT TOP OF PIPE TO FINISH GRADE. LATERAL PIPING 12" AT TOP OF PIPE FROM FINISH GRADE.
- INITIAL BACKFILL ON PVC LINE SHALL BE PULVERIZED NATIVE SOIL, FREE OF FOREIGN MATTER. WITHIN RADIUS OF 4" OF THE PIPE SHALL BE CLEAN SOIL OR SAND. PLANT LOCATIONS SHALL TAKE PRECEDENCE OVER SPRINKLER AND PIPE LOCATIONS. THE CONTRACTOR SHALL COORDINATE THE PLACING OF SPECIMEN TREES AND SHRUBS WITH THE ROUTING OF LINES AND FINAL HEAD LOCATIONS.
- 8. THE IRRIGATION AND LANDSCAPE CONTRACTORS SHALL COORDINATE THE PLACEMENT OF THE SPRINKLER EQUIPMENT AND LANDSCAPE MATERIAL WITHIN THE PLANTED AREAS. THE IRRIGATION CONTRACTOR SHALL INSTALL HIS MATERIAL AT THE EDGE OF THE PLANTED AREAS AVOIDING PLANTS, ROOTBALLS, LIGHTS, FENCES, ETC.
- 9. BEFORE SPRINKLER HEADS ARE SET, THE CONTRACTOR SHALL FLUSH THE LINES THOROUGHLY TO MAKE SURE THERE IS NO FOREIGN MATTER IN THE LINES. THE CONTRACTOR SHALL FLUSH THE MAINLINES FROM DEAD END FITTINGS FOR A MINIMUM OF FIVE MINUTES UNDER A FULL HEAD OF PRESSURE.
- 10. TRENCHES MUST BE PROTECTED FROM VEHICLE AND PEDESTRIAN TRAFFIC AT ALL TIMES. IT WILL BE THE IRRIGATION CONTRACTORS RESPONSIBILITY TO BARRICADE AND DIVERT TRAFFIC. NO OPEN TRENCHES PERMITTED OVERNIGHT. TRENCHES MUST BE COVERED/FILLED AT END OF EACH WORK DAY.
- 11. SLEEVING BENEATH SIDEWALKS SHALL BE PROVIDED BY THE IRRIGATION CONTRACTOR. SIZE SLEEVING TWO TIMES LARGER THAN THE PIPE TO BE PLACED INSIDE THE SLEEVE OR AS SHOWN IN PLANS, WHICHEVER IS GREATER. SLEEVING MATERIAL TO BE SCHEDULE 40 PVC. NO SLEEVING SHALL BE SMALLER THAN (2") SCHEDULE 40 PVC. SLEEVING SHALL BE SMALL BE SMALL BE SMALLER THAN (2") SCHEDULE 40 PVC. SLEEVING SHALL BE SMALL BE SMALLER THAN (2") SCHEDULE 40 PVC. SLEEVING SHALL BE SMALL BE SMAL ALL WIRE CROSSINGS EITHER IN CONDUIT (AS SPECIFIED) OR IN SCHEDULE 40 PVC PIPE (IF CONTROL WIRE IS DIRECT
- 12. LATERAL PIPE TO BE SIZED AS NOT TO EXCEED 5 FEET PER SECOND BASED ON STANDARD CLASS 200 AND SCH 40 PVC CHARACTERISTICS. SEE CHART BELOW. SIZE LATERALS PER THE FOLLOWING LATERAL PIPE SIZING CHART BASED ON WATER VELOCITY NOT TO EXCEED FIVE FEET PER SECOND:
 - 0-9 GPM 10-15 GPM 1 1/4" 16-24 GPM 1 1/2": 25-30 GPM 31-50 GPM 2 1/2": 51-75 GPM 86-120 GPM
- 13. ALL TRENCHES WITHIN 15' OF EXISTING TREES TO BE HAND EXCAVATED TO AVOID CONFLICTS WITH TREES.
- 14. NO ROOTS SHALL BE CUT WITHIN (15') RADIUS OF ALL EXISTING TREES. IRRIGATION PIPES AND CONDUIT SHOULD BE DIRECTIONAL BORED WITHIN THIS (15') AREA
- 15. THE CONSTRUCTION OF THE IRRIGATION SYSTEM REQUIRES THAT THE INSTALLER BECOME FAMILIAR NOT ONLY WITH THE NEW IRRIGATION TO BE ADDED, BUT ALSO WITH ALL EXISTING CONDITIONS.

IRRIGATION NOTES AND SPECIFICATIONS

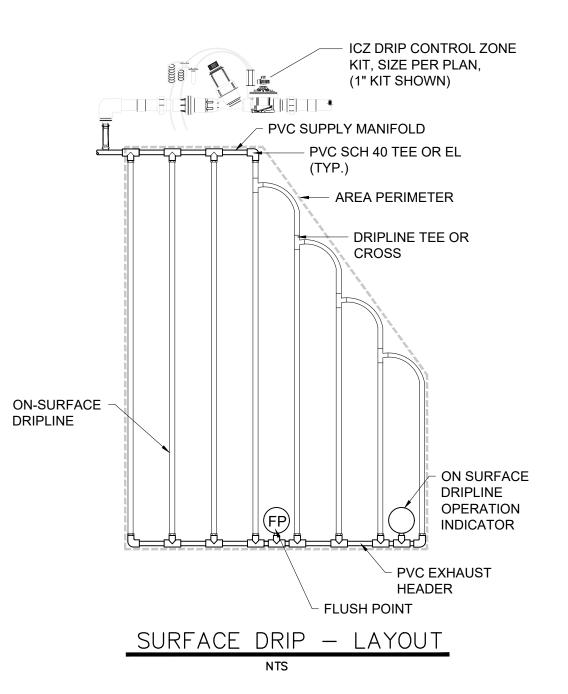
- 1. SUFFICIENT EARTH GROUNDING FOR DECODER SYSTEM SHALL BE INSTALLED PURSUANT TO MANUFACTURER INSTRUCTIONS. ALL GROUNDING SHALL BE SHOWN ON IRRIGATION AS-BUILT DRAWINGS PROVIDED BY THE CONTRACTOR PRIOR TO FINAL ACCEPTANCE OF PROJECT.
- 2. ALL SECONDARY (CIRCUIT) IRRIGATION LINES 1 INCH DIAMETER TO 3 INCH DIAMETER SHALL BE CLASS 160 PVC. CIRCUIT WATER LINES 1/2 INCH TO 3/4 INCH DIAMETER SHALL BE CLASS 315 PVC. SECONDARY IRRIGATION LINES SHALL BE INSTALLED WITHIN THE LANDSCAPED AREA AT A MINIMUM DEPTH OF 12 INCHES. POP-UP SPRINKLER HEADS MUST BE UTILIZED WITHIN ANY MOWABLE AREA. HOWEVER, IN NO CASE MAY SPRINKLER HEADS NOR SECONDARY LINES BE INSTALLED WITHIN 1 FOOT OF THE BACK OF ROADWAY CURB OR ON THE FRONT SLOPE AND DITCH BOTTOM OF SWALE SECTIONS.
- THE IRRIGATION CONTRACTOR SHALL REVIEW THE PLANTING PLANS TO DETERMINE THE PROPOSED PLANT MATERIALS FOR EACH HEAD LOCATION PRIOR TO BIDDING.
- 4. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFYING HEAD INSTALLATION TYPES, DEPENDING ON THE FINAL LOCATIONS OF ALL PLANT MATERIAL
- 5. ALL SPRINKLER HEADS ARE TO BE INSTALLED WITH A 18 INCH MINIMUM LENGTH OF FLEXIBLE PVC PIPE, USING
- STANDARD PVC FITTINGS. ALL HEADS SHALL BE ADJUSTED TO REDUCE WATER WASTE ON HARD SURFACES AND WALLS.
- 7. THE IRRIGATION CONTRACTOR SHALL EXERCISE CARE SO AS NOT TO DAMAGE EXISTING UTILITIES. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL UNDERGROUND UTILITIES. THE IRRIGATION CONTRACTOR SHALL REPAIR OR REPLACE ALL ITEMS DAMAGED AS A RESULT OF HIS OR HER WORK.
- 8. ALL LOW VOLTAGE DIRECT BURIED WIRING SHALL BE UL APPROVED, TYPE UF AND A MINIMUM SIZE OF #14 AWG. THE COMMON WIRE SHALL BE WHITE AND ALL WIRING SHALL BE THE SAME COLOR FROM CONTROLLER VALVE. ONE SPARE WIRE SHALL BE RUN ALONG ENTIRE LENGTH OF THE MAINLINE THEN TERMINATE AT THE CONTROLLER. ALL SPLICES SHALL BE IN A VALVE OR SPLICE BOX. PROVIDE 48 INCH EXPANSION COILS AT ALL VALVES. ALL SPLICES SHALL BE MADE WITH 3M-DB4
- 9. ALL IRRIGATION LINES CROSSING BENEATH ROADWAYS SHALL BE ENCASED IN SCHEDULE 40 PVC, AS SHOWN ON THE PLANS. SLEEVES SHALL BE A MINIMUM OF 24 INCHES BELOW EDGE OF PAVEMENT SURFACE, 36 INCHES DEPTH WITHIN THE RIGHT-OF-WAY, AND INSTALLED 90 DEGREES TO ROADWAY CENTERLINE. SUBSEQUENT INSTALLATIONS SHALL BE JACK AND BORE. CONTRACTOR SHALL AT ALL TIMES BLOCK ENDS OF SLEEVES TO PREVENT BUILDUP OF SEDIMENT WITHIN SLEEVES.
- 10. ALL PIPING UNDER CONSTANT PRESSURE SHALL BE TESTED UNDER HYDROSTATIC PRESSURE OF NOT LESS THAN 100 P.S.I. FOR ONE HOUR WITH NO MORE THAN 5 PSI LOSS
- 11. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION AND ELECTRICAL CONNECTION TO THE IRRIGATION CONTROLLERS.
- 12. THE RAIN SENSOR SHALL BE LOCATED IN AN AREA WHERE NO OVERHEAD OBSTRUCTIONS THAT WILL ALTER RAIN
- FALL OR PRODUCE DEBRIS THAT MAY INVALIDATE RAINFALL READINGS.
- 13. THIS PLAN IS DIAGRAMMATIC. ALL PIPING OR VALVES SHOWN OUTSIDE LANDSCAPE AREAS ARE SHOWN THERE FOR CLARITY. ALL LINES AND VALVES SHALL BE INSTALLED ON THE PROPERTY AND INSIDE THE LANDSCAPE AREAS.
- 14. REFER TO LANDSCAPE DRAWINGS WHEN TRENCHING TO AVOID EXISTING AND PROPOSED TREES AND SHRUBS. HAND DIGGING SHALL BE USED BENEATH CANOPIES OF TREES TO AVOID DAMAGING ROOTS. THE IRRIGATION CONTRACTOR SHALL VERIFY THAT THE QUANTITIES INDICATED WILL PROVIDE THE COVERAGE AS SPECIFIED AND REPORT ANY DISCREPANCIES AT TIME OF BIDDING TO THE LANDSCAPE ARCHITECT.

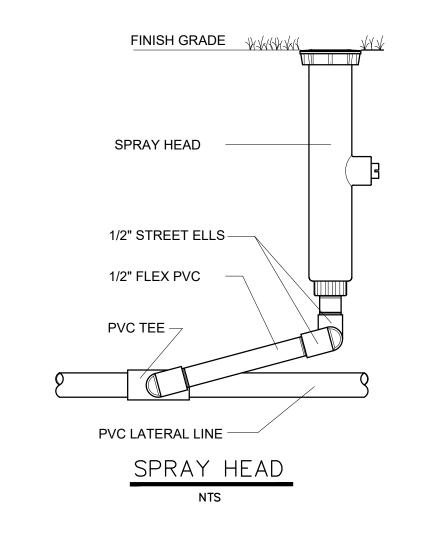


1. INSERT BARB TRANSFER FITTING DIRECTLY INTO DRIPLINE TUBING

2. NOZZLE TO BE SET TO CLOSED. 3. TO BE INSTALLED ON ALL DRIP ZONES AT FURTHEST POINT FROM VALVE.

ON-SURFACE DRIPLINE OPERATION INDICATOR





18" MINIMUM

IRRIGATION CONTROLLER

INSIDE CONTROLLER

CONTROLLER PER PLAN

IRRIGATION CONTROL WIRE IN CONDUIT

SIZE AND TYPE PER LOCAL CODES

CONNECT TO POWER SOURCE, J-BOX

ELECTRICAL SUPPLY CONDUIT

ADJACENT SURFACE TO MOUNT

DOUBLE CHECK ASSEMBLY

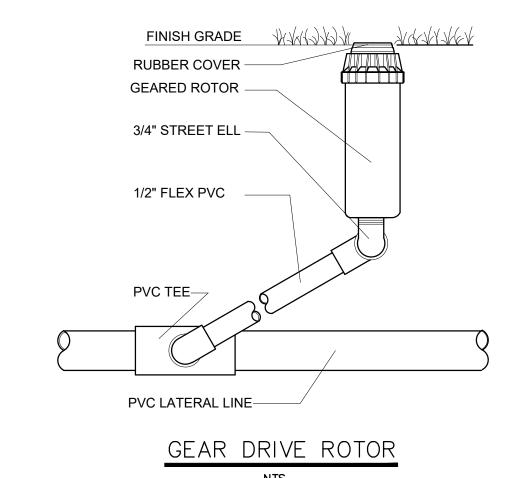
NTS

10" PVC \

EXTENDER IF

APPLICABLE

IRRIGATION MAINLINE



PVC OR GALV. 90

PVC OR GALV. 90

GALVANIZED UNION

(AS REQUIRED)

GALV. NIPPLES

FINISH GRADE

INSTALL PER MANUFACTURER

REGULATIONS, (INSULATE AS

FINISH GRADE

BOX

PVC SCH 40 MALE

ADAPTERS

~BALL VALVE

ROUND

PLASTIC VALVE

REINFORCED

RECOMENDATIONS & CITY

NOTE:

REQUIRED)

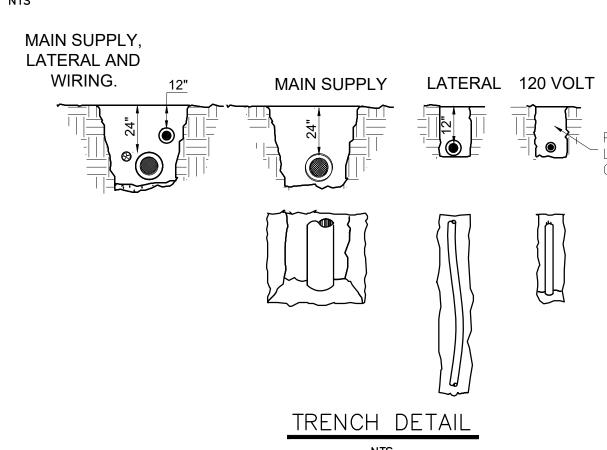
MAINLINE

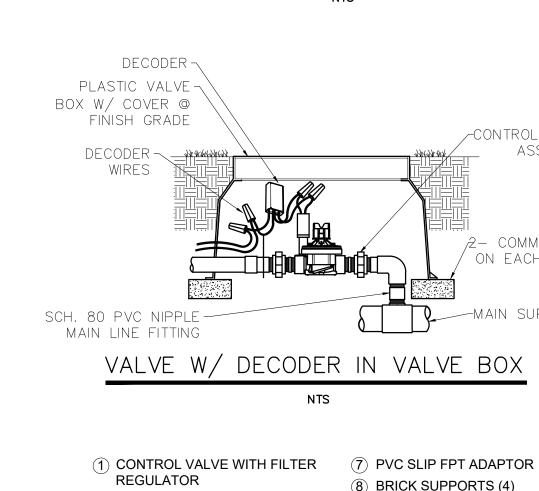
ISOLATION BALL VALVE

NTS

PVC OR GALV. 90

DOUBLE CHECK ASSEMBLY







- (2) IRRIGATION VALVE BOX (3) DECODER
- (4) DECODER WIRES (5) FINISH GRADE AT ADJACENT
- SURFACE (TURF OR MULCH) (6) SCH. 80 CLOSE NIPPLE, MATCH SIZE TO VALVE
- 10 3/4" WASHED GRAVEL 4" MIN.
 - (11) IRRIGATION LATERAL 12 MAINLINE LATERAL AND FITTINGS

(9) FILTER FABRIC - WRAP TWICE

AROUND BRICK SUPPORTS

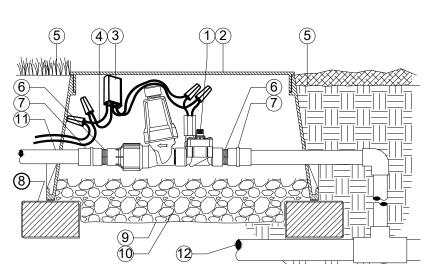
CONTROL VALVE

2- COMMON BRICK

/ ON EACH SIDE OF

-MAIN SUPPLY

PLANNING



DRIP CONTROL ZONE KIT

ringfield H J PRIN S T 유 등 표

SHEET TITLE:

SHEET NUMBER:

IRRIGATION

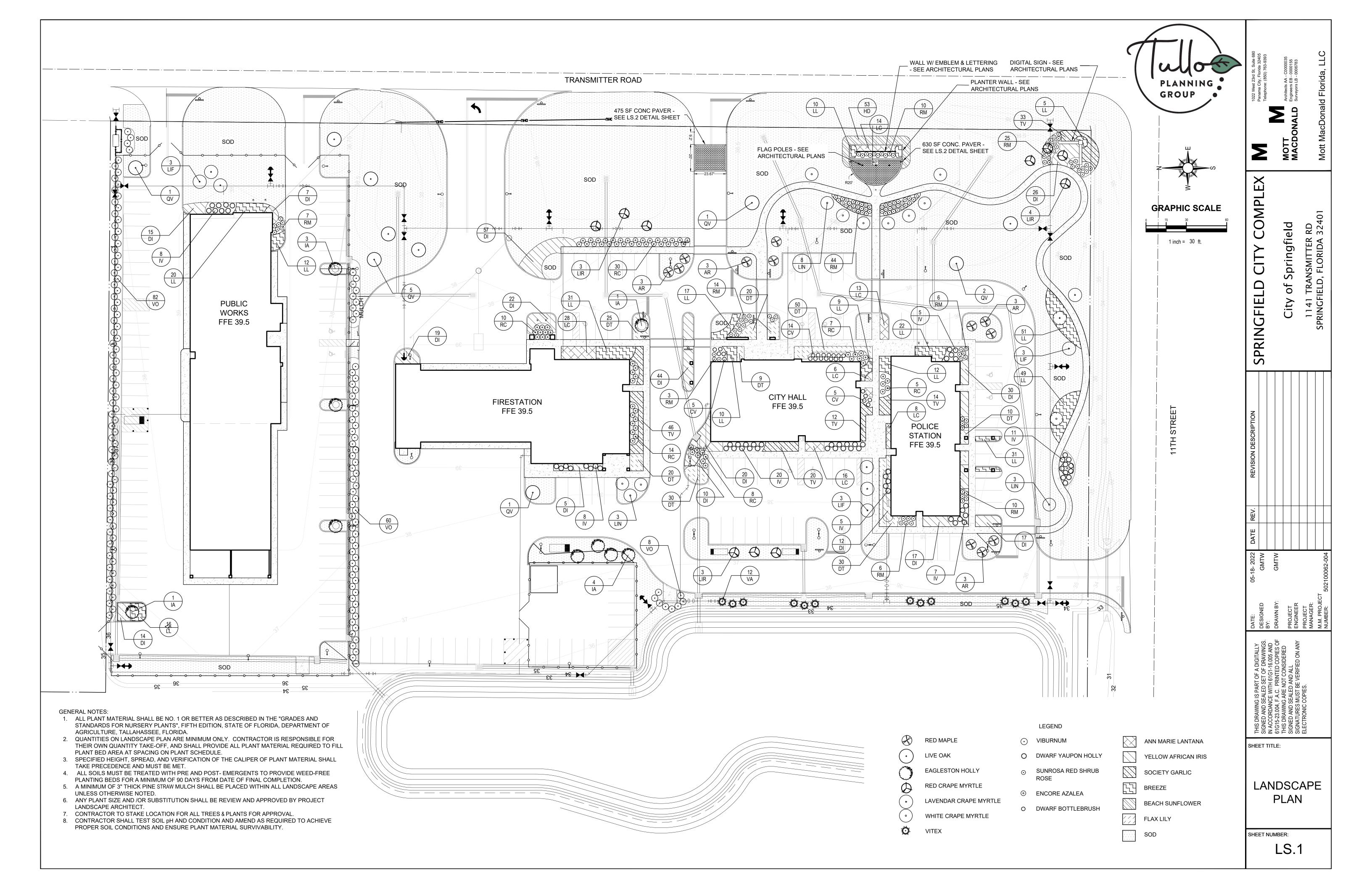
DETAILS

IR.2

FRONT ELEVATION

EXTERIOR WALL MOUNT CONTROLLER NTS

RIGHT ELEVATION



LANDSCAPE SPECIFICATIONS

- A. THE WORK CONSISTS OF: FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THE DRAWINGS, AS INCLUDED IN THE PLANT LIST, AND AS HEREIN SPECIFIED.
- B. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL CONTRACT PLANTING AREAS AS UNTIL CERTIFICATION OF ACCEPTABILITIY BY THE

2. PROTECTION OF EXISTING STRUCTURES

- A. ALL EXISTING WALKS, WALLS, PAVING, PIPING, OTHER SITE CONSTRUCTION ITEMS, AND PLANTING ALREADY COMPLETED OR ESTABLISHED SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM NEGLIGENCE SHALL BE REPARIED OR REPLACED TO THE SATISFACTION OF THE OWNER, AT NO COST TO THE OWNER.
- B. WORK WITHIN 15 FT OF EXISTING TREES TO REMAIN SHALL BE PERFORMED BY HAND. ANY DISTURBED ROOTS SHALL BE SEVERED USING CLEAN,

- A. SUBMIT PRODUCT SAMPLES AND DATA SHEETS FOR ALL PROPOSED MATERIALS, INCLUDING BUT NOT LIMITED TO PLANT MATERIAL, STAKING AND BRACING KITS, MYCORRHIZAL SOIL INOCULATE, FERTILIZER, MULCH, AND "BLENDED SOIL" FOR REVIEW AND WRITTEN APPROVAL BY THE PROJECT LANDSCAPE ARCHITECT PRIOR TO DELIVERY
- B. ALL PLANT MATERIAL SHALL BE FLORIDA GRADE NO. 1 OR BETTER AS SPECIFIED IN GRADES AND STANDARDS FOR NURSERY PLANTS PART I AND II. DIVISION OF PLANT INDUSTRY, FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, LATEST EDITION, AND SHALL CONFORM TO CURRENT AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS FOR NURSERY STOCK.
- C. CONTAINER GROWN PLANTS: A MINIMUM OF 80% OF THE CONTAINER ROOTBALL MUST BE BOUND BY THE ROOT SYSTEM. ENCIRCLING OR "RING" ROOTS ARE PROHIBITED AND PLANTS WILL BE REJECTED.
- D. AS PART OF THE CONTRACTOR'S RESPONSIBILITY TO ENSURE LONG TERM HEALTH AND VIABILITY OF PLANT MATERIAL, DETERMINE, AT A MINIMUM, SITE CONDITIONS, PLANT MATERIAL AVAILABILITY, SOIL ANALYSIS/AMENDMENTS, FERTILIZER APPLICATION RATES, MYCORRIHZAL SOIL INOCULATE APPLICATION RATES AND WATERING REQUIREMENTS
- E. WARRANT ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF SUBSTANTIAL COMPLETION. REMOVE AND REPLACE TREES, SHRUBS OR OTHER PLANTS FOUND TO BE DEAD OR IN UNHEALTHY CONDITION DURING WARRANTY PERIOD. PLANT MISSING TREES, SHRUBS AND GROUND COVER. MAKE REPLACEMENTS DURING GROWTH SEASON FOLLOWING END OF WARRANTY PERIOD, OR AS REQUESTED BY OWNER. FURNISH AND PLANT REPLACEMENTS WHICH COMPLY WITH REQUIREMENTS SHOWN AND SPECIFIED.

4. SOIL MIXTURE

- A. AS A MINIMUM FOR BIDDING PURPOSES, ASSUME THE FOLLOWING CONCERNING SOIL ANALYSIS, RECOMMENDATIONS, AND AMENDMENTS: COLLECT SOIL SAMPLES AT A MINIMUM OF TWO (2) PLANTING LOCATIONS DISTRIBUTED EVENLY THROUGHOUT THE PROJECT. SUBMIT TESTING LOCATIONS TO THE COUNTY FOR WRITTEN APPROVAL PRIOR TO TAKING SAMPLES. SEND SAMPLES TO AN AGRONOMIC SOILS TESTING LABORATORY APPROVED BY THE PROJECT LANDSCAPE ARCHITECT STATING PROPOSED PLANT MATERIAL AT EACH TEST LOCATION, ANALYSIS TO INCLUDE, AT A MINIMUM, PH, NPK, ORGANIC CONTENT, TEXTURE, AND SOLUBLE SALTS. SUBMIT RESULTS/RECOMMENDATIONS AND PROPOSED FERTILIZER ANALYSIS/AMENDMENTS TO THE PROJECT LANDSCAPE ARCHITECT.
- B. "BLENDED SOIL" SHALL CONSIST OF: 1/3 MUSHROOM COMPOST OR PEAT, 1/3 COMMERCIALLY PROCESSED AND COMPOSTED COW MANURE AND 1/3
- C. TOPSOIL FOR SODDED AREAS TO BE SIEVED TOPSOIL IMPORTED TO THE SITE, FREE OF ROCKS AND DEBRIS. SUBMIT SOIL ANALYSIS RESULTS FROM AN APPROVED AGRONOMIC SOILS TESTING LABORATORY FOR A MINIMUM OF PH, ORGANIC CONTENT, SOLUBLE SALTS, AND TEXTURE WITH A STATEMENT OF SUITABILITY FOR BERMUDA SOD GROWTH. INSTALL AT ALL PROPOSED SOD AREAS (2" AVERAGE DEPTH). IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE SUITABILITY FOR GROWTH OF PROPOSED PLANT MATERIAL.

THE FOLLOWING APPLICATION RATES ARE PROVIDED AS A RECOMMENDATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE APPROPRIATE FERTILIZER/AMENDMENTS TO ENSURE PROPER ESTABLISHMENT AND VIGOR OF PLANT MATERIAL:

A. ASSUME THE FOLLOWING CONCERNING FERTILIZER:

- FOR INITIAL INSTALLATION OF TREES AND SHRUBS: FERTILIZER IS ASSUMED TO BE CONTROLLED RELEASE FERTILIZER WITH A 15-9-12 ANALYSIS AND CONTAINING TRACE ELEMENTS MG, S, B, CU, FE, MN, MO, AND ZN. FERTILIZER GRANULES TO BE COMPOSED OF DRY NUTRIENTS ENCAPSULATED IN MULTIPLE LAYERS OF POLYMERIC RESIN.
- B. FOR INITIAL INSTALLATION OF PALMS: FERTILIZER IS ASSUMED TO BE 100% CONTROLLED RELEASE FERTILIZER WITH A 8-2-12 (8N-2P/20/5-12K/2O+4MG) ANALYSIS, AND CONTAINING TRACE ELEMENTS S, B, CU, FE, MN AND ZN. FERTILIZER GRANULES TO BE COMPOSED OF DRY NUTRIENTS ENCAPSULATED IN MULTIPLE LAYERS OF POLYMERIC RESIN. INCORPORATE FERTILIZER INTO PLANTING SOILS AND BACKFILL.

6. MYCORRHIZAL INOCULANT FOR PLANTING PITS AND SOD

USE AND APPLY SOIL INOCULANT PER MANUFACTURER RECOMMENDATIONS TO EACH PLANTING PIT. THE INOCULANT IS TO BE SLOW RELEASE AND CONTAIN BOTH ENDO AND ECTOMYCORRHIZAL INOCULANTS COMBINED WITH HUMIC ACIDS, TRICHODERMA, STIMULANTS, BENEFICIAL BACTERIA, SOLUBLE SEA KELP, YUCCA PLANT EXTRACTS, AND A WATER RETENTION GEL.

MULCH

FOR PLANT BEDS, MULCH ON GRADE AREAS, AND INDIVIDUAL TREE RINGS WITH SPECIFED MULCH. UNIFORMLY SPREAD MULCH OVER THE FULL DIAMETER OF EACH PLANTING BED, MULCH ON GRADE AREA, AND INDIVIDUAL TREE RINGS. MULCH INCLUDES INITIAL INSTALLATION (3" DEPTH). DO NOT PLACE MULCH AGAINST TRUNKS OR STEMS OF PLANTS.

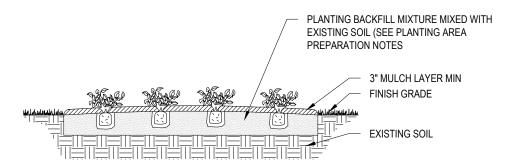
THE FOLLOWING WATERING SCHEDULE IS PROVIDED AS A RECOMMENDATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE SUFFICIENT WATER TO ENSURE PROPER ESTABLISHMENT AND VIGOR OF PLANT MATERIAL.

SIZE OF NURSERY STOCK: WATERING SCHEDULE

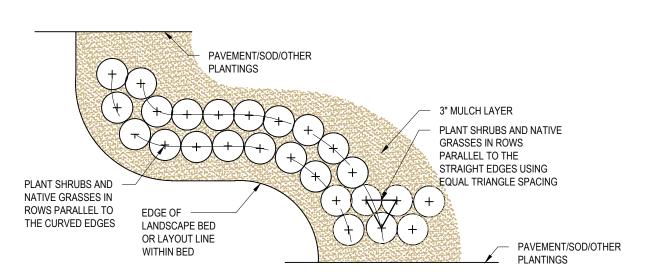
1/3/7 GAL CONTAINER: DAILY FOR 2 WEEKS; EVERY OTHER DAY FOR 2 MONTHS; WEEKLY UNTIL ESTABLISHED 15/30/45/65 GAL CONTAINER: DAILY FOR 1 MONTH: EVERY OTHER DAY FOR 3 MONTHS: WEEKLY UNTIL ESTABLISHED

9. FINAL INSPECTION/ACCEPTANCE OF WORK/WARRANTY

- A. FINAL INSPECTION AT THE END OF THE WARRANTY PERIOD SHALL BE ON PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT. ANY REPLACEMENT AT THIS SHALL BE SUBJECT TO THE SAME TIMEFRAME WARRANTY AS SPECIFIED IN
- B. THE LIFE AND SATISFACTORY CONDITION OF ALL PLANT MATERIAL INSTALLED BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTABILTY BY THE OWNER'S RESPRESENTATIVE.
- C. ANY PLANT NOT FOUND IN A HEALTHY GROWING CONDITION AT THE END OF THE WARRANTY PERIOD SHALL BE REMOVED FROM THE SITE AND REPLACED WITHIN 2 WEEKS OR AS SOON AS WEATHER CONDITIONS PERMIT. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED, PLANTED AND MULCHED AS SPECIFIED UNDER "PLANTING PREPARATION" AT NO



TYPICAL SHRUB/GROUNDCOVER PLANTING BED



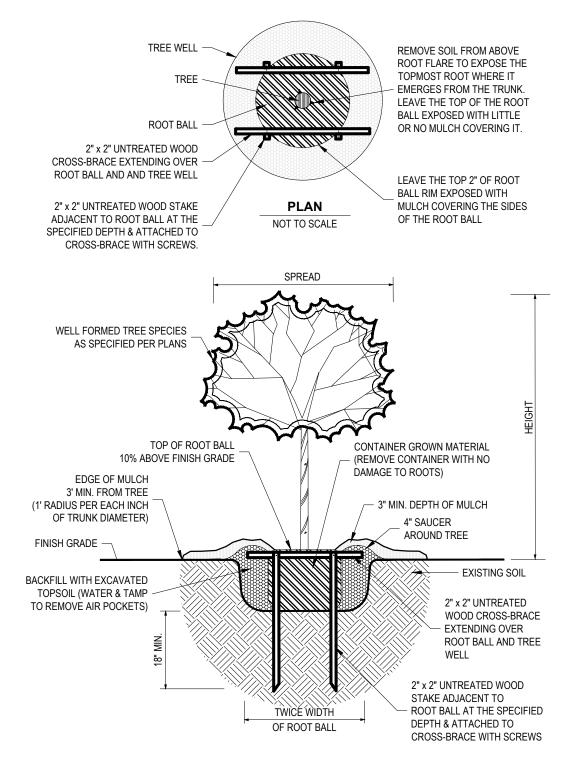
LAYOUT DETAIL - TYPICAL SHRUB WITH O.C. SPACING

PLANTING AREA PREPARATION NOTES:

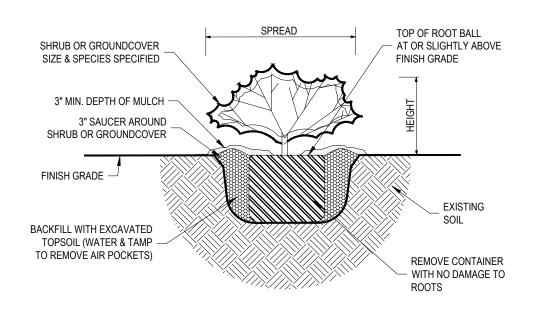
- 1. PLANTING AREA PREPARATION TO OCCUR AS FOLLOWS:
- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES, ELECTRICAL WIRING, WATER, ETC., PRIOR TO PLANT MATERIAL OR IRRIGATION INSTALLATION. DAMAGED UTILITY LINES SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO CITY OF
- B. LAY OUT AND STAKE LOCATIONS OF PLANTINGS TO ACCURATELY REFLECT PLANS. COORDINATE WITH THE PROJECT LANDSCAPE ARCHITECT TO REVIEW LAYOUT AND STAKING ON SITE. PROVIDE A MINIMUM OF FIVE (5) BUSINESS DAYS ADVANCED NOTIFICATION.
- C. THE CONTRACTOR SHALL NOTIFY THE CITY OF SPRINGFIELD AND PROJECT ENGINEER OF ANY UNFORESEEN CONDITIONS I.E., COMPACTED SOIL / SUBGRADE, POOR DRAINAGE, UNCONSOLIDATED SOIL, EROSION, UTILITY CONFLICTS, EXCESSIVE SUN OR SHADE, ETC., PRIOR TO
- D. APPLY HERBICIDE WHERE PLANT BEDS, MULCH ON GRADE AREAS, AND SOD AREAS ARE PROPOSED. BEGIN PROCESS A MINIMUM OF 28 DAYS PRIOR TO PLANTING AS FOLLOWS: SPRAY AREA TO BE KILLED WITH GLYPHOSATE PER MANUFACTURER RECOMMENDATIONS.
- E. EXCAVATE TREE WELLS WITH VERTICAL SIDES AND WITH BOTTOM OF EXCAVATION AT A LEVEL SO THAT THE TOP OF THE ROOT BALL OF THE
- F. EXCAVATION FOR SHRUBS: SET THE TOP OF THE ROOT BALL AT THE SAME ELEVATION AS ADJACENT FINISHED LANDSCAPE GRADES OR UP TO ONE-HALF INCH HIGHER, BUT NOT LOWER THAN ADJACENT GRADES. EXCAVATIONS MUST BE AT LEAST TWICE AS WIDE AS THE PLANT'S ROOT BALL DIAMETER. DISPOSE OF UNUSABLE SUBSOIL REMOVED FROM LANDSCAPED EXCAVATIONS.
- G. INSTALL MYCORRHIZAL INOCULANT PER MANUFACTURER RECOMMENDATIONS.
- H. FILL PLANTING PIT WITH PLANTING BACKFILL MIXTURE IN LIFTS AND TAMP LIGHTLY AROUND EACH AND EVERY PLANT. THOROUGHLY FLUSH WITH WATER AT EACH LIFT AND MAKE ADJUSTMENTS TO PROVIDE PROPERLY SET PLANT MATERIAL. INSTALL FERTILIZER PER MANUFACTURER RECOMMENDATIONS.
- I. ESTABLISH FINISHED PRE-MULCHING GRADE.

PLANT IS 10% HIGHER THAN THE FINISH GRADE.

- J. TREE STAKING SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE PLANS TO INSURE STABILITY AND MAINTAIN TREES IN AN UPRIGHT POSITION. IF THE CONTRACTOR AND OWNER DETERMINE TO WAIVE THE STAKING, THE OWNER SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING AND AGREE TO INDEMNIFY AND HOLD HARMLESS THE LANDSCAPE ARCHITECT IN THE EVENT UNSUPPORTED TREES PLANTED UNDER THIS CONTRACT FALL AND DAMAGE PERSON OR PROPERTY. ALL STAKING SHALL BE REMOVED IN ONE YEAR OR ONCE THE TREES ARE ESTABLISHED.
- K. EVENLY SPREAD MULCH ACROSS PLANTING AREAS ON GRADE AREAS TO A DEPTH OF 3".
- L. SOD AREAS TO RECEIVE 2" (AVERAGE DEPTH) TOPSOIL, RANKED SMOOTH TO ESTABLISH FINISHED GRADE 2" BELOW TOP OF CURB. ENSURE EXISTING GRADES ARE RE-ESTABLISHED. BUTT SOD PIECES TOGETHER CLOSELY AND PEG IN PLACE AS NEEDED TO NOT IMPEDE MAINTENANCE OPERATIONS. ENSURE EDGES ARE TRIMMED EVENLY AND SOD IS ROLLED TO AN EVEN FINISHED GRADE AND APPEARANCE.



TREE PLANTING DETAIL



SHRUB AND GROUNDCOVER DETAIL

PLANTING SCHEDULE

TREES	SYM	QTY	BOTANICAL NOMENCLATURE	COMMON NAME	SIZE / SPACING	
	AR	12	ACER RUBRUM	RED MAPLE	11' HT X 4' SPD, 30 GAL	
	IA	9	ILEX X ATTENUATA 'EAGLESTON'	EAGLESTON HOLLY	6' HT X 4' SPD, 15 GAL	
	LIF	9	LAGERSTROEMIA FAURIEI	MUSKOGEE CRAPE MYRTLE	10'-11' HT , MULT-TRUNK FIELD GROWN	
	LIN	14	LAGERSTROEMIA INDICA	NATCHEZ CRAPE MYRTLE	10'-11' HT , MULT-TRUNK FIELD GROWN	
	LIR	10	LAGERSTROEMIA INDICA 'WHITII' DYNAMITE PP#10296	RED CRAPE MYRTLE	8'-10' HT, MULTI-TRUNK FIELD GROWN	
	QV	10	QUERCUS VIRGINIANA	LIVE OAK	9'-10' HT X 4' SPD, FIELD GROWN	
	VA	12	VITEX AGNUS-CASTUS	CHASTE TREE	15 GAL, FULL TO THE GROUND	
SHRUBS	5					
	DI	345	DIETES 'BI-COLOR'	YELLOW AFRICAN IRIS	1 GAL, 12" HT X 14" SPD, 36" OC	
	IV	64	ILEX VOMITORIA 'STOKES'S DWARF'	STOKES DWARF YAUPON	3 GAL, 36" OC FULL	
	RC	RC 74 RHODODENDRON 'CONLER' PP12110		AUTUMN RUBY DWARF AZALEA	3 GAL, FULL	
	RM	RM 125 ROSA X 'ZARSBJOH' PP #24,314		SUNROSA [™] RED SHRUB ROSE	3 GAL, 36" OC, FULL	
	TV	125	TULBAGHIA VIOLACEA	SOCIETY GARLIC	1 GAL, 12" HT, 36" OC	
	VO	VO 150 VIBURNUM ODORATISSIMUM		SWEET VIBURNUM	7 GAL, 4' OC, FULL	
GROUNI	D COV	/ER		·		
	CV	27	CALLISTEMON VIMINALIS 'LTTLE JOHN'	DWARF BOTTLEBRUSH	1 GAL, 24" OC	
	DT	164	DIANELLA TASMANICA 'VARIEGATA'	FLAX LILY	1 GAL, 30" OC, FULL	
	HD	53	HELIANTHUS DEBILIS	BEACH SUNFLOWER	1 GAL, 36" OC	
	LC	85	LANTANA CAMARA 'ANNE MARIE'	DWARF LANTANA	1 GAL, 36" OC, FULL	
	LM	-	LIRIOPE MUSCARI	BIG BLUE LILYTURF	1 GAL, 30" OC, FULL	
	LL	295	LOMANDRA LONGIFOLIA 'BREEZE'	BREEZE	1 GAL, 36" OC, FULL	
	10,47	7 SY	EREMOCHLOA OPHIUROIDES	CENTIPEDE SOD	SQUARES, SOLID SOD, UNIFORM CUT	
			MULCH	PINE STRAW	3" MIN DEPTH	

CONTINUE

PAVERS

PAVER FIELD

WITH SAND-SWEPT JOINTS

 $\frac{1}{2}$ CLEAN SAND BED

- AGGREGATE BASE (12" MIN. FOR

6" COMPACTED DENSE

VEHICULAR AREAS)

FINISH GROUND ELEVATIONS SHALL ALLOW POSITIVE

CONCRETE PAVER DETAIL

DRAINAGE. REFER TO CIVIL PLANS FOR GRADING.

ALL PAVER CONSTRUCTION WILL BE TYPICAL - AS

SHOWN IN THIS DETAIL.

- FINISH GRADE

FOOTING

EDGE OF CONCRETE

STABILIZE 12" (MIN) SUBGRADE

COMPACTED TO 98% OF

(MIN. L.B.R. 40)

PAVERS (ADJACENT TO

CURB OR LANDSCAPED

PAVER (SINGLE HEADER)

CONTINUOUS CONCRETE

MORTAR TO FOOTING



SPECIFICATIONS CONCRETE PAVER NOTES:

CONCRETE PAVERS: - FLAGSTONE (DISTRIBUTOR)

- INDEPENDANCE (TYPE) 8" x 12" (SIZE) RUNNING BOND (PATTERN) WHITE / TAN / CHARCOAL (COLOR)

- LIBERTY (TYPE) 12" x 12" (SIZE) SINGLE HEADER (PATTERN) WHITE / TAN / CHARCOAL (COLOR)

- 6. THE GAPS AT THE EDGE OF THE PAVED SURFACE SHALL BE FILLED WITH PAVER CUT TO FIT.
- EDGE CONSTRAINT. 8. INSTALL PAVERS $\frac{1}{8}$ " ABOVE CURB GRADE ($\frac{1}{4}$ " FOR VEHICULAR AREAS) AFTER
- 9. ALL PAVERS SHALL BE LAID TO ENSURE POSITIVE DRAINAGE. 10. FILL VOIDS IN JOINTS BY SWEEPING IN A FINE, DRY MASONRY SAND
- (BRUSH OFF EXCESS). 11. INSTALL PAVING MATERIAL AS PER MANUFACTURERS SPECIFICATIONS. 12. APPLY APPROPRIATE WATER SEALER TO CLEAN PAVERS.

1.	EXCAVATE SUBGRADE MATERIAL AND COMPACT THE AREA WHICH H
	BEEN CLEARED FOR PAVERS.

- 2. SPREAD AND COMPACT THE DENSE AGGREGATE BASE IN LIFTS OF 4 TO 6
- 3. COMPACTED DENSE AGGREGATE BASE SHALL CONSIST OF GROUP 2 GRADED BASE MATERIAL PER FDOT STANDARDS FOR BRIDGE CONSTRUCTION, SECTION 204. THIS TYPE OF BASE IS A COMPACTED CRUSHED STONE BASE WHOSE GRADATION YIELD VERY SMALL VOIDS BETWEEN THE PARTICLES WITH NO VISIBLE SPACES BETWEEN THEM. MOST DENSE AGGREGATE BASES HAVE PARTICLES RANGING IN SIZE FROM 1 1/2" OR 3/4" DOWN TO FINES PASSING THE NO. 200 SIEVE.
- 4. THE PAVERS SHALL BE LAID ACCORDING TO THE SPECIFIED PATTERN AND LAID OUT SO AS TO AVOID HAVING SMALL SLIVERS NEXT TO EDGE CONSTRAINTS.
- 5. WHERE REQUIRED, CUT PAVERS WITH AN APPROVED CUTTER TO FIT ACCURATELY, NEATLY AND WITHOUT DAMAGED EDGES.
- 7. LAY ALL PAVERS AND CUT LAST EDGE PAVER TO FIT SPACE NEXT TO THE
- COMPACTION FOR POSITIVE DRAINAGE & MINOR SETTLING.

ringfield PRIN S SHEET TITLE: DETAIL SHEET SHEET NUMBER:

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LS.2