Plot Date: 11/6/2025 3:45:05 PM

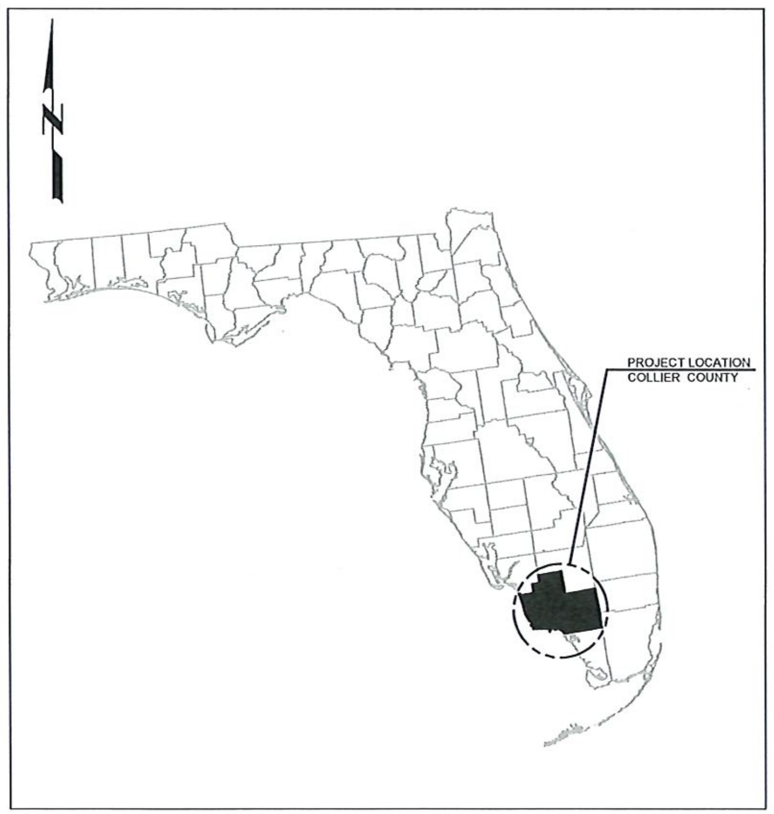
Collier County

CONTRACT DOCUMENTS

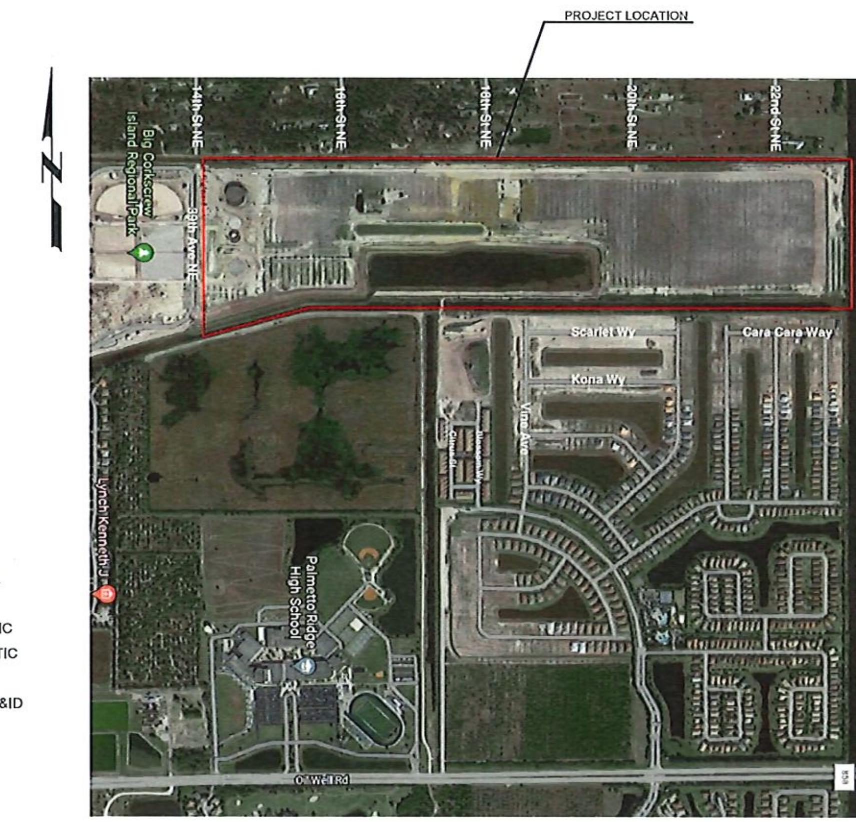
COLLIER COUNTY PROJECT #: 70194 .2

NORTHEAST WATER RECLAMATION FACILITY/WATER TREATMENT PLANT DIW CONVEYANCE

VOLUME 2 OF 2



VICINITY MAP
SCALE: NTS



LOCATION MAP
SCALE: NTS

NOVEMBER 2025

carollo®
301 North Cattlemen Road, Suite 302
Sarasota, FL 34232
Phone: 941-371-9832
CA No. 00008571

DRAWING NO. 00G01

SHEET NO. 1 OF 62

LAST SAVED BY: Abalco

PROJECT NO. 7126I10 FILE NAME: 7126I1000G01.dwg

NOTES

1. FOLLOWING NOTES ARE GENERAL AND APPLY TO ALL SHEETS OF THESE CONTRACT DOCUMENTS AS IF THEY WERE WRITTEN IN THEIR ENTIRETY ON EACH SHEET.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE STARTING WORK AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS INCLUDING LOCATION AND DIMENSIONS OF ALL EXISTING CONSTRUCTION AND UTILITIES. CONTRACTOR SHALL NOTIFY ENGINEER IF THERE IS A CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND EXISTING CONSTRUCTION BEFORE PROCEEDING WITH WORK.

   PRIOR TO EXCAVATION FOR NEW STRUCTURES, ELECTRICAL CONDUIT, FABRICATION OF NEW PIPING AND/OR OTHER PROPOSED UTILITIES, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING PIPING AND UTILITIES IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL TEMPORARILY RELOCATE CONFLICTING EXISTING UTILITIES AT TIE-IN/CONNECTION LOCATIONS AND REINSTALL THEM AS REQUIRED TO ELIMINATE THE CONFLICT AT NO ADDITIONAL COST TO THE OWNER.

   CONTRACTOR SHALL VERIFY LOCATION OF ALL ARCHITECTURAL, MECHANICAL, AND ELECTRICAL ITEMS BEFORE PLACING ANY STRUCTURAL STEEL OR CONCRETE. ALSO, STRUCTURAL DIMENSIONS AND OPENINGS CONTROLLED BY ARCHITECTURAL, MECHANICAL, OR ELECTRICAL EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
3. UNLESS DETAILED, SPECIFIED, OR OTHERWISE INDICATED ON THE DRAWINGS, CONSTRUCTION SHALL BE AS INDICATED IN THE APPLICABLE TYPICAL DETAILS AND GENERAL NOTES. TYPICAL DETAILS SHALL APPLY EVEN THOUGH NOT REFERENCED AT SPECIFIC LOCATIONS ON DRAWINGS.
4. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CONSTRUCTION STORM WATER DISCHARGE REGULATORY REQUIREMENTS.
5. CONTRACTOR TO REFER TO COLLIER COUNTY DESIGN CRITERIA FOR MINIMUM DEPTH OF COVER. PIPES SHALL BE ROUTED AS SHOWN UNLESS MINOR REVISIONS ARE NECESSARY TO MISS EXISTING PIPES, STRUCTURES, ETC. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL FITTINGS AND ADAPTERS REQUIRED TO MAKE THE ROUTING CHANGES AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL INCLUDE COST FOR THIS IN THE BID.
6. EXISTING FACILITY AND UTILITY INFORMATION SHOWN ON THE DRAWINGS WAS OBTAINED FROM AVAILABLE RECORDS OR ELECTRONIC FILES. NEITHER THE OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR FACILITIES AND UTILITIES NOT SHOWN OR NOT IN THE LOCATION SHOWN.
7. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT FROM DAMAGE EXISTING FACILITIES AND UTILITIES SHOWN OR NOT SHOWN THAT ARE TO REMAIN IN PLACE. ALL FACILITIES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE EXPEDITIOUSLY REPAIRED OR RECONSTRUCTED TO THE ORIGINAL OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE WITHOUT ADDITIONAL COMPENSATION.
8. CONTRACTOR SHALL MAKE CONNECTIONS TO EXISTING PIPE, EQUIPMENT, ETC. AS REQUIRED AND SHALL PROVIDE ALL FITTINGS, ADAPTERS, AND APPURTENANCES REQUIRED TO MAKE THE CONNECTIONS. PROVIDE ALL SUPPORTS REQUIRED FOR A RIGIDLY SUPPORTED COMPLETE AND WORKING SYSTEM.
9. ADJUST ALL VALVE BOXES, VAULTS, PULL BOXES, AND MANHOLES TO FINISHED GRADE UNLESS OTHERWISE SHOWN OR DIRECTED. MANHOLES IN OPEN FIELDS SHALL BE SET TWELVE INCHES ABOVE FINISHED GRADE AND VAULTS SHALL BE SIX INCHES ABOVE FINISHED GRADE.
10. THE CONTRACTOR SHALL CONTACT THE PROPER UTILITY REPRESENTATIVE AS FOLLOWS FOR QUESTIONS OR COORDINATION OF CONSTRUCTION RELATED TO EXISTING UTILITIES.
11. CONTRACTOR SHALL VERIFY THAT PIPING SHOWN TO BE ABANDONED OR AS ABANDONED PREVIOUSLY IS NO LONGER IN SERVICE. LINES IN SERVICE SHALL BE MAINTAINED UNTIL NO LONGER REQUIRED BY THE PLANT.
12. ALL EXISTING PIPES THAT ARE TO BE ABANDONED IN PLACE OR REMOVED MAY NOT BE SHOWN. WHERE PIPING IS TO BE ABANDONED AND MUST REMAIN IN SERVICE UNTIL COMPLETION OF OTHER PHASES OF WORK, AND IT CONFLICTS WITH NEW PIPING, TEMPORARILY RELOCATE PIPING AS REQUIRED TO MAINTAIN SERVICE BY THE PLANT.
13. CONTRACTOR SHALL REROUTE THE EXISTING PIPING IF REQUIRED TO MISS THE PROPOSED STRUCTURES. THE EXISTING PIPE SHALL REMAIN IN SERVICE UNTIL NEW PIPING IS READY TO BE PLACED INTO SERVICE. PLAN SHALL BE SUBMITTED AND APPROVED 30 DAYS MINIMUM PRIOR TO COMMENCEMENT OF WORK.
14. THE CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS IN THE VICINITY OF ANY OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL ABIDE BY THE NATIONAL ELECTRIC CODE AND ANY REQUIREMENT BY THE OWNER OF THE ELECTRIC LINES.
15. PROVIDE ALL SHEETING/SHORING REQUIRED TO PROTECT EXISTING STRUCTURES, PIPES AND FACILITIES.
16. MECHANICAL AND ELECTRICAL EQUIPMENT SUPPORTS, ANCHORAGES, OPENINGS, RECESSES, AND REVEALS NOT SHOWN ON THE STRUCTURAL DRAWINGS, THAT ARE REQUIRED BY OTHER CONTRACT DRAWINGS, SHALL BE PROVIDED PRIOR TO CASTING CONCRETE.
17. ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88). CONVERSION FACTOR TO NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD '29) IS (+) 1.257

LINE WORK

	NEW	EXISTING
CONSTRUCTION		
FENCE		
GUARDRAIL		
FUTURE CONSTRUCTION		
CENTER LINE		
HIDDEN LINE		
REMOVE AND/OR ABANDON		
GATE		
MATCH LINE	MATCH LINE SEE DWG ##X##	

SYMBOLS

BRACKET

BREAK LINE

PIPE BREAK PLAN VIEW

PIPE BREAK CROSS SECTION

PIPE CONTINUATION (SINGLE LINE)

KEY TAG (X)

KEY NOTE (34)

REVISION DELTA (2)

EXISTING ELEVATION T.O.W. XXXX.X± (EXIST)

ELEVATION TOC XXXX.XX

SCALE 0 50' 100' 200'

NORTH ARROW/PLANT NORTH (30°, NORTH, TRUE NORTH, PLANT)

EQUIPMENT/DEVICE TAG AND NUMBER XXX-XX-XXXX
EQUIPMENT
EX-EQUIP = EXISTING EQUIPMENT
EF-EQUIP = FUTURE EQUIPMENT

PIPE TAG
PIPE SIZE — FLOW STREAM
X" XXX
SIZE FLOW STREAM
EX-SIZE FLOW STREAM = EXISTING
EF-SIZE FLOW STREAM = FUTURE

UNDERGROUND/ OVERHEAD WARNING (STATE/REGION SPECIFIC)

811 Know what's below. Call before you dig.

DETAIL REFERENCES

PLAN/TITLE — A — PLAN TITLE
FILE: FILE
PLAN NOT REFERENCED

SECTION CUT — C — VIEW
- = SHOWN ON SAME DRAWING
##X## = SEE INDICATED DRAWING

SECTION OR DETAIL TITLE W/ REFERENCE — C/1 ##X## — SECTION/DETAIL TITLE
ALPHA = SECTION
NUMERIC = DETAIL
SCALE: SCALE
FILE: FILE
DRAWING CUT ORIGINATION

DETAIL CALL-OUT (ENLARGED) — 1 ##X## — VIEW
SEE INDICATED DRAWING

DRAWING REFERENCE ##X##
AREA DESIGNATOR (WHEN APPLICABLE)
DISCIPLINE DESIGNATOR
CONSECUTIVE SHEET NUMBER

TYPICAL DETAIL REFERENCE — ? TYP — TYPICAL DETAIL #

EXTERIOR ELEVATION VIEWS — A ##X##

PHOTO LOCATION — # — ARROW INDICATES POINT OF VIEW

GRID BUBBLE — A 1

TYPICAL DETAIL NUMBER
? TYP
LINE 3
LINE 1 — TYPICAL DETAIL TITLE
LINE 2
MOD — MODIFICATION NOTE
S = STANDARD
J = JOB SPECIFIC
R = REVISED
N = NOTE TO TYPICAL DETAIL USER
SHT # OF # — SHEETS IN DETAIL
VER DATE — DATE CREATED (REVISED)

HATCH PATTERNS

- AGGREGATE BASE COURSE (ABC)
- ALUMINUM
- ASPHALT PAVING
- BEDROCK
- BRICK OR BLOCK
- BRONZE, BRASS, OR COPPER
- CAST IRON OR FIBERGLASS
- CLSM
- CONCRETE (ALL CLASSES)
- DRAIN ROCK
- GRAVEL
- GRATING — SPAN
- LANDSCAPING
- RUBBER
- SAND OR GROUT
- EXISTING/ UNDISTURBED SOIL
- STRUCTURAL FILL OR BACKFILL
- STEEL
- TREAD PLATE
- WOOD

REV	DATE	BY	DESCRIPTION
1	10/25	RC	BID SET

DESIGNED MAB
DRAWN AMR
CHECKED LDM
DATE NOVEMBER 2025

MATTHEW S. LOVE LICENSE No 86118 STATE OF FLORIDA PROFESSIONAL ENGINEER

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY MATTHEW S. LOVE ON THE DATE ADJACENT TO THE SEAL ON THE COVER SHEET.
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Phone: 941-371-9832
CA No. 00008571

Collier County

COLLIER COUNTY
NORTHEAST WRF/WTP -DIW CONVEYANCE
GENERAL
NOTES AND DRAWING SYMBOLOGY

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 7126I.10
DRAWING NO. 00G02
SHEET NO. 2 OF 62

PROJECT NO. 7126I10 FILE NAME: 7126I1000G02.dwg

Plot Date: 11/6/2025 3:47:03 PM

PIPING SYMBOLS

DOUBLE LINE	SINGLE LINE	DESCRIPTION
		WELDED JOINT
		GROOVED END JOINT
		FLANGED JOINT
		HUB & SPIGOT JOINT (RUBBER GASKET)
		PUSH-ON JOINT (RESTRAINED)
		ADAPTER SIDE GROOVED END ADAPTER FLANGE
		FLANGED COUPLING ADAPTER
		FLANGED COUPLING ADAPTER WITH THRUST TIES
		FLEXIBLE COUPLING
		FLEXIBLE COUPLING WITH THRUST TIES
		METAL BELLOWS EXP JOINT
		ELASTOMER BELLOWS EXP JOINT
		FLEXIBLE COUPLING ADAPTER
		DISMANTLING JOINT
		EXPANSION COMPENSATOR
		ELBOW UP
		ELBOW DOWN
		TEE UP
		TEE DOWN
		LATERAL UP
		LATERAL DOWN
		CONCENTRIC REDUCER
		ECCENTRIC REDUCER (FOT. FOB)
		UNION
		CAP
		ANCHOR
		ELBOW, 90 DEGREE
		CROSS
		TEE
		ELBOW, 45 DEGREE
		ELBOW, 22.5 DEGREE
		ELBOW, 11.25 DEGREE
		LATERAL

DOUBLE LINE	SINGLE LINE	DESCRIPTION
		GATE VALVE
	K	KNIFE GATE VALVE
		BUTTERFLY VALVE
V	V	CHARACTERIZED BALL CONTROL VALVE
		BALL VALVE
		GLOBE VALVE
		3-WAY GLOBE TYPE MIXING VALVE
		DIAPHRAGM VALVE
		PLUG VALVE
		LUBRICATED PLUG VALVE
		ECCENTRIC PLUG VALVE
		SWING CHECK VALVE
		WAFER CHECK VALVE
		PINCH VALVE
		BALL CHECK VALVE
		DUAL CHECK VALVE
		SILENT CHECK VALVE
		MUD VALVE (PLAN VIEW)
		NEEDLE VALVE
		CHECK BACKFLOW PREVENTER
		PIPE MATERIAL CHANGE

MECHANICAL SYMBOLS

SINGLE LINE	DESCRIPTION
	AIR OR CHEMICAL DIFFUSER
	QUICK DISCONNECT HIGH PRESSURE AIR OR FLUSHING
	BATCHMETER
	AIR VENT
	BASKET STRAINER
	BLOWER
	CALIBRATION COLUMN
	COMPRESSOR/TURBINE
	COMPRESSOR: RECIPROCATING
	DIAPHRAGM SEAL
	DRAIN
	EJECTOR OR EDUCTOR
M	ELECTRIC MOTOR
	EQUIPMENT DRAIN
	EXPANSION JOINT, FLEXIBLE VIBRATION JOINT
	FAN: EXHAUST/SUPPLY
	FILTER
	FIRE HYDRANT
	FLAME ARRESTER
	FLAME ARRESTER WITH THERMALLY OPERATED VALVE
	FLOOR DRAIN
	FLOW SWITCH
	GAUGE: PRESSURE
	GAUGE: DIFFERENTIAL PRESSURE
	WEIR
	MIXER
	OIL OR MOISTURE TRAP
	PRIMARY LEVEL ELEMENT: BUBBLER
	PRIMARY LEVEL ELEMENT: ELECTRODE
	PRIMARY LEVEL ELEMENT: FLOAT SWITCH
	PRIMARY LEVEL ELEMENT: FLUID
	PRIMARY LEVEL ELEMENT: INVERTED COLUMN

SINGLE LINE	DESCRIPTION
	PRIMARY LEVEL ELEMENT: RADAR
	PRIMARY LEVEL ELEMENT: ULTRASONIC
	PRIMARY FLOW ELEMENT: FLUME
X	PRIMARY FLOW ELEMENT: X = C - CORIOLIS X = M - MAGNETIC X = P - PROPELLER X = PT - PITOT TUBE X = R - ROTAMETER X = T - TURBINE X = TH - THERMAL X = U - ULTRASONIC X = D - DENSITY
	PRIMARY FLOW ELEMENT: ORIFICE PLATE
	PRIMARY FLOW ELEMENT: VENTURI TUBE
	PRIMARY FLOW ELEMENT: WEIR
	PULSATION DAMPENER
	PUMP: CENTRIFUGAL
	PUMP: DIAPHRAGM
	PUMP: METERING
	PUMP: PLUNGER
	PUMP: PERISTALTIC TUBE METERING
	PUMP: PROGRESSIVE CAVITY
	PUMP: RECIPROCATING
	PUMP: ROTARY
	PUMP: SCREW
	PUMP: SUBMERSIBLE
	PUMP: VERTICAL LIFT
	PIPE REDUCER: CONCENTRIC
	PIPE REDUCER: ECCENTRIC (FOT, FOB)
	ROTARY CHEMICAL FEEDER
	RUPTURE DISK
	SAMPLE PORT
	SIGHT GLASS
	SLIDE GATE
	SLUICE GATE
	STRAINER: WYE TYPE

SINGLE LINE	DESCRIPTION
	STRAINER: WYE TYPE WITH BLOWOFF
	THERMOMETER
	VALVE: ANGLE
	VALVE: AIR RELIEF
	VALVE: BALL
	VALVE: BALL CHECK
	VALVE: BUTTERFLY
	VALVE: CONE
	VALVE: DIAPHRAGM
	VALVE: FLAPPER CHECK
	VALVE: FOUR WAY
	VALVE: GATE
	VALVE: GLOBE
	VALVE: HOSE
	VALVE: NEEDLE
	VALVE: PINCH
	VALVE: PLUG CONCENTRIC
	VALVE: PLUG ECCENTRIC
	VALVE: PRESSURE RELIEF PRESSURE-REDUCING REGULATOR
	VALVE: SWING CHECK
	VALVE: TELESCOPING
	VALVE: THREE WAY AIR OPERATED
M	VALVE: THREE WAY MOTOR OPERATED
S	VALVE: THREE WAY SOLENOID OPERATED
	VALVE: VACUUM
	BACKPRESSURE REGULATOR SELF-CONTAINED
	BACKPRESSURE REGULATOR W/ EXTERNAL PRESSURE TAP
	PRESSURE-REDUCING REGULATOR: SELF-CONTAINED
	PRESSURE-REDUCING REGULATOR W/EXTERNAL PRESSURE TAP

IDENTIFICATION SYMBOLS

CHEMICAL INJECTION POINT — CHEMICAL / DWG NO.

PIPE DESIGNATOR — PIPE SIZE — FLOW STREAM — X" XXX

CONTINUATION TAG — UNIQUE IDENTIFIER — CONTINUATION FROM DWG NO. — CONTINUATION TO DWG NO. — A B C

EQUIPMENT / VALVE TAG — XXX-XX-XXXX

REV	DATE	BY	DESCRIPTION
1	10/25	RC	BID SET

DESIGNED MAB
DRAWN AMR
CHECKED LDM
DATE NOVEMBER 2025

MATTHEW S. LOVE LICENSE No 66118 STATE OF FLORIDA PROFESSIONAL ENGINEER

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Collier County

COLLIER COUNTY
NORTHEAST WRF/WTP -DIW CONVEYANCE
GENERAL
SYMBOLS 1

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 — 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 7126I.10
DRAWING NO. 00G03
SHEET NO. 3 OF 62

LAST SAVED BY: arlcardo

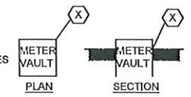
PROJECT NO. 7126I10 FILE NAME: 7126I1000G03.dwg

ABBREVIATIONS

A	AB	AGGREGATED BASE
	ABC	AGGREGATED BASE COURSE
	AC	ASPHALTIC CONCRETE
	APPROX	APPROXIMATE
	ARV	AIR RELEASE VALVE
	ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
B	BC	BEGIN CURVE
	BF	BLIND FLANGE
	BFP	BACK FLOW PREVENTER
	BFV	BUTTERFLY VALVE
	BLDG	BUILDING
	BOA	BEGINNING OF ALIGNMENT
	BOC	BACK OF CURB
	BOP	BEGINNING OF PIPE
	BV	BALL VALVE
	BVC	BEGINNING OF VERTICAL CURVE
	BYP	BYPASS
C	CATV	CABLE TV
	CB	CATCH BASIN
	CC	CONCRETE CURB
	CFM	CUBIC FOOT PER MINUTE
	CI	CAST IRON
	CL OR C	CENTERLINE
	CIPP	CURED IN PLACE PIPE
	CLR	CLEAR / CLEARANCE
	CML	CEMENT MORTAR LINED
	CMLC	CEMENT MORTAR LINED AND COATED
	CMLSP	CEMENT MORTAR LINED STEEL PIPE
	CMP	CORRUGATED METAL PIPE
	CLSM	CONTROL LOW STRENGTH MATERIAL
	CONC	CONCRETE
	CP	CONTROL POINT
	CPLG	COUPLING
	CO	CLEANOUT
	CONC	CONCRETE
	COORD	COORDINATE
	CSP	CORRUGATED STEEL PIPE
	CTR	CENTER
	CU	CUBIC
	CULV	CULVERT
D	D	DRAIN
	DEG	DEGREE
	DEMO	DEMOLITION
	DET	DETAIL
	DI	DROP INLET
	DIA	DIAMETER
	DIFF	DIFFERENCE
	DIP	DUCTILE IRON PIPE
	DIW	DEEP INJECTION WELL
	DP	DETENTION POND
	DPTA	PUMP
	DR	DRIVE
	DWG	DRAWING
	D/W	DRIVEWAY APRON
	DZMW	DUAL ZONE MONITORING WELL
E	E	ELECTRIC, EAST
	EA	EACH
	EC	END OF CURVE
	ECC	ECCENTRIC
	EG	EXISTING GROUND
	ELB / ELL	ELBOW
	ELEC	ELECTRIC
	ELEV/EL	ELEVATION
	EMH	ELECTRICAL MANHOLE
	EOA	END OF ALIGNMENT
	EOP	EDGE OF PAVEMENT
	EP	EDGE OF PAVING
	EQ	EQUAL
	EUG	ELECTRICAL UNDERGROUND
	EVC	END OF VERTICAL CURVE
	EW	EACH WAY
	EX/EXIST	EXISTING
F	FC	FLEXIBLE COUPLING / FLEXIBLE CONNECTION
	FCA	FLANGE COUPLING ADAPTER
	FH	FIRE HYDRANT
	FIN	FINAL / FINISHED
	FL	FLOW LINE
	FLEX	FLEXIBLE
	FLG	FLANGE
	FLGA	FLANGE ADAPTER
	FM	FORCE MAIN
	FMSS	FORCE MAIN SANITARY SEWER
	FO	FIBER OPTIC OR CATV
	FOC	FACE OF CURB
	FRP	FIBERGLASS - REINFORCED PLASTIC
	FS	FIRE SERVICES
	FSP	FABRICATED STEEL PIPE
	FT	FOOT
	FTG	FOOTING
G	G	GAS
	GALV	GALVANIZE(D)
	GM	GAS METER
	GND	GROUND
	GSP	GALVANIZED STEEL PIPE
	GV	GATE VALVE
H	HDG	HOT DIPPED GALVANIZED
	HDPE	HIGH DENSITY POLYETHYLENE
	HORIZ	HORIZONTAL
	HP	HIGH POINT
	HPGM	HIGH PRESSURE GAS MAIN
	HW	HEADWALL
	HWY	HIGHWAY
	HYD	HYDRANT
I	I	INTERSECTION OF ANGLE
	ID	INSIDE DIAMETER
	INV	INVERT
	IRR	IRRIGATION
J	JNCT	JUNCTION
L	LAT	LATERAL
	LF	LINEAR FEET
	LONG	LONGITUDINAL
	LT	LEFT
M	MAX	MAXIMUM
	MFR/MFR'S	MANUFACTURER / MANUFACTURER'S
	MH	MANHOLE
	MISC	MISCELLANEOUS
	MIN	MINIMUM
	MJ	MECHANICAL JOINT
	MON	MONUMENT
N	N	NORTH
	NG	NATURAL GAS
	NIC	NOT IN CONTRACT
	NO./NO'S	NUMBER / NUMBERS
	NTS	NOT TO SCALE
	NW	NORTHWEST
O	OC	ON CENTER
	OD	OUTSIDE DIAMETER
	OHE	OVERHEAD ELECTRIC
	OHU	OVERHEAD UTILITIES
	OTF	OUTFALL
P	PC	POINT OF CURVATURE
	PCC	POINT OF COMPOUND CURVE
	PCL	PARCEL PROPERTY LINE
	PERP	PERPENDICULAR
	PH	POT HOLE
	PI	POINT OF INTERSECTION
	PL	PLATE / PROPERTY LINE
	PMP	PUMP
	PP	POWER POLE
	PROP	PROPERTY
	PRC	POINT OF REVERSE CURVATURE
	PSF	PER SQUARE FOOT
	PSI	PER SQUARE INCH
	PT	POINT, POINT OF TANGENT
	PV	PLUG VALVE
	PVC	POLYVINYL CHLORIDE
	PVI	POINT OF VERTICAL INTERSECTION
	PVT	POINT OF VERTICAL TANGENCY
	PVMT	PAVEMENT
Q	QTY	QUANTITY
R	RAD	RADIUS
	RCP	REINFORCED CONCRETE PIPE
	RED	REDUCER
	REF	REFERENCE
	REINF	REINFORCED
	REQ'D	REQUIRED
	REV	REVISION
	RR	RAILROAD
	RP	RADIUS POINT
	R/W	RIGHT-OF-WAY
S	S	SLOPE, SOUTH
	SD	STORM DRAIN
	SDDI	STORM DRAIN DROP INLET
	SDMH	STORM DRAIN MANHOLE
	SDVLT	STORM DRAIN VAULT
	SHLD	SHOULDER
	SHT	SHEET
	SIM	SIMULAR
	SPEC	SPECIFICATION
	SQ FT	SQUARE FEET
	SSCO	SANITARY SEWER CLEANOUT
	SSMH	SANITARY SEWER MANHOLE
	SST	STAINLESS STEEL
	ST	STREET
	STA	STATION
	STD	STANDARD
	STL	STEEL
	SW	SOUTHWEST
T	TB	THRUST BLOCK
	TELE	TELEPHONE
	TG	TOP OF GRATE
	TOC	TOP OF CONCRETE
	TOP	TOP OF PIPE
	TS	TRAFFIC SIGNAL
	TYP	TYPICAL
U	UGE	UNDERGROUND ELECTRIC
	UGG	UNDERGROUND G
	UGPB	UNDERGROUND POWER BOX
	UGTEL	UNDERGROUND TELEPHONE
	UNKN	UNKNOWN
	UNO	UNLESS NOTED OTHERWISE
V	VC	VERTICAL CURVE
	VCP	VITRIFIED CLAY PIPE
	VERT	VERTICAL
	VLT	VAULT
	VPI	VERTICAL POINT OF INTERSECTION
W	W / WTR	WATER
	W	WEST
	WM	WATER METER
	WTP	WATER TREATMENT PLAN
	WV	WATER VALVE
	WW	WASTEWATER
	WWTP	WASTE WATER TREATMENT PLANT
	WRF	WATER RECLAMATION FACILITY
	WSTP	WATERSTOP
	W	WITH

COORDINATES

PLANT COORDINATES AT STRUCTURES (OUTSIDE FACE AT FINISHED GRADE)



COORDINATES (IN FEET)

ELEVATION/SLOPES

CONTROL POINT — (XX)

SPOT ELEVATION (AT PAVEMENT) — XX.XX / PVMT

SPOT ELEVATION (AT DIRT) — XX.X

SPOT ELEVATION (AT FLOWLINE) — XX.XX / FL

SPOT ELEVATION (AT HIGH POINT) — XX.XX / (HP)

SPOT ELEVATION (AT TOP CURB) — XX.XX / TC

SPOT ELEVATION (FINISH ELEV) — XX.XX / FIN SLAB/ FIN SLAB

ELEVATION — X 1325.00 ← NEW; 1328.2 ← EXISTING

SLOPE CALLOUT — 2:1 = 2/1; 3:1 = 3/1

SURFACE SLOPE — 2%

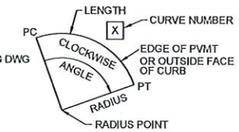
ROADWAY GRADE — S=0.0100 (FT/FT)

DRAINAGE DITCH OR CHANNEL GRADE — S=0.0020 (FT/FT)

ROADWAY/PIPE CURVES

ROADWAY/PIPE CURVE

(SEE TABLE ON EACH GRADING & PAVING OR CIVIL PIPING DWG WITH ROADWAY/PIPE CURVES.)



PATTERNING

STABILIZED CONSTRUCTION ENTRANCE

STAGING AREA

CONCRETE PAVEMENT

RIP RAP

ASPHALT PAVEMENT

SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	BENCH MARK		TRANSIT POINT		FLANGE
	VERTICAL CONTROL POINT		ANCHOR POINT		VALVE
	MONUMENT		PARSHALL FLUME		CLOSED VALVE
	SOIL BORING LOCATIONS		GUARD POST		VALVE W/ CONNECTION
	TEST BORING LOCATIONS		HEADWALL		CLOSED VALVE W/ CONNECTION
	PERCOLATION TEST LOCATIONS		ROCK WALL		OPERATOR/ OPERATOR CLOSED
PH PHXX	POTHOLE/ POTHOLE NUMBER		RIP RAP		VALVE W/ OPERATOR
IP	IRON PIN		SHRUB/HEDGE		CLOSED VALVE W/ OPERATOR
IR	IRON ROD		TREE		VALVE W/ OPERATOR AND CONNECTION
	DATUM POINT		SIGN/SIGN POST		CLOSED VALVE W/ OPERATOR AND CONNECTION
			LIGHT		VALVE W/ TWO CONNECTIONS
			LIGHT POLE		CLOSED VALVE W/ TWO CONNECTIONS
			HIGH LIGHT POLE		VALVE W/ OPERATOR AND TWO CONNECTIONS
	FLOW ARROW		TRAFFIC LIGHT POLE		CLOSED VALVE W/ OPERATOR AND TWO CONNECTIONS
	FLOW/SLOPE DIRECTION		TRAFFIC LIGHT POLE		GATE VALVE W/ BLIND FLANGE AND CONNECTION
	DIRECTION ARROW		SINGLE TRAFFIC LIGHT POLE		CHECK VALVE
	PROPERTY HOOK		GUYED LIGHT POLE		PLUG VALVE
	MANHOLE (PLAN)		UTILITY POLE		CLOSED PLUG VALVE
			UTILITY POLE GUY WIRE		PIPE CAP OR CONNECTION
	MANHOLE (PROFILE)	PP	POWER POLE		CAP OR TURN DOWN
		MC MC	PA SPEAKER		CROSS
	CURB MANHOLE		2 WAY PA SPEAKER		REDUCER
	CATCH BASIN (SQUARE)		3 WAY PA SPEAKER		REDUCER W/ CONNECTION
	CATCH BASIN (ROUND)		4 WAY PA SPEAKER		REDUCER W/ CONNECTION
	DROP INLET		FIRE HYDRANT - 2 WAY		REDUCER FLANGED
	DROP MANHOLE		FIRE HYDRANT - 3 WAY		REDUCER W/ FLANGE AND CONNECTION
	ELECTRICAL MANHOLE AND PULL BOX		YARD HYDRANT		REDUCER W/ TWO CONNECTIONS
P	PULL BOX	CO	CLEANOUT		
T	TELEPHONE PEDESTAL		AIR RELEASE VALVE		FLANGED TEE
CTV	CABLE TV		BLOW OFF VALVE		TEE W/ CONNECTIONS
	X JUNCTION BOX		HOSE BIBB		TEE W/ FLANGE AND CONNECTIONS
	/ JUNCTION BOX		SERVICE CONNECTION		
	I JUNCTION BOX		BURIED VALVE		
	POWER TOWER		GAS VALVE OPEN/CLOSED		
	GATE		GAS METER		

*** ALL SYMBOLS SHOWN AS NEW. EXISTING SYMBOLS ARE SCREENED.

REV	DATE	BY	DESCRIPTION
1	10/25	RC	BID SET

DESIGNED MAB
DRAWN AMR
CHECKED LDM
DATE NOVEMBER 2025

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Collier County

COLLIER COUNTY
NORTHEAST WRF/WTP -DIW CONVEYANCE
GENERAL
SYMBOLS 2

VERIFY SCALES
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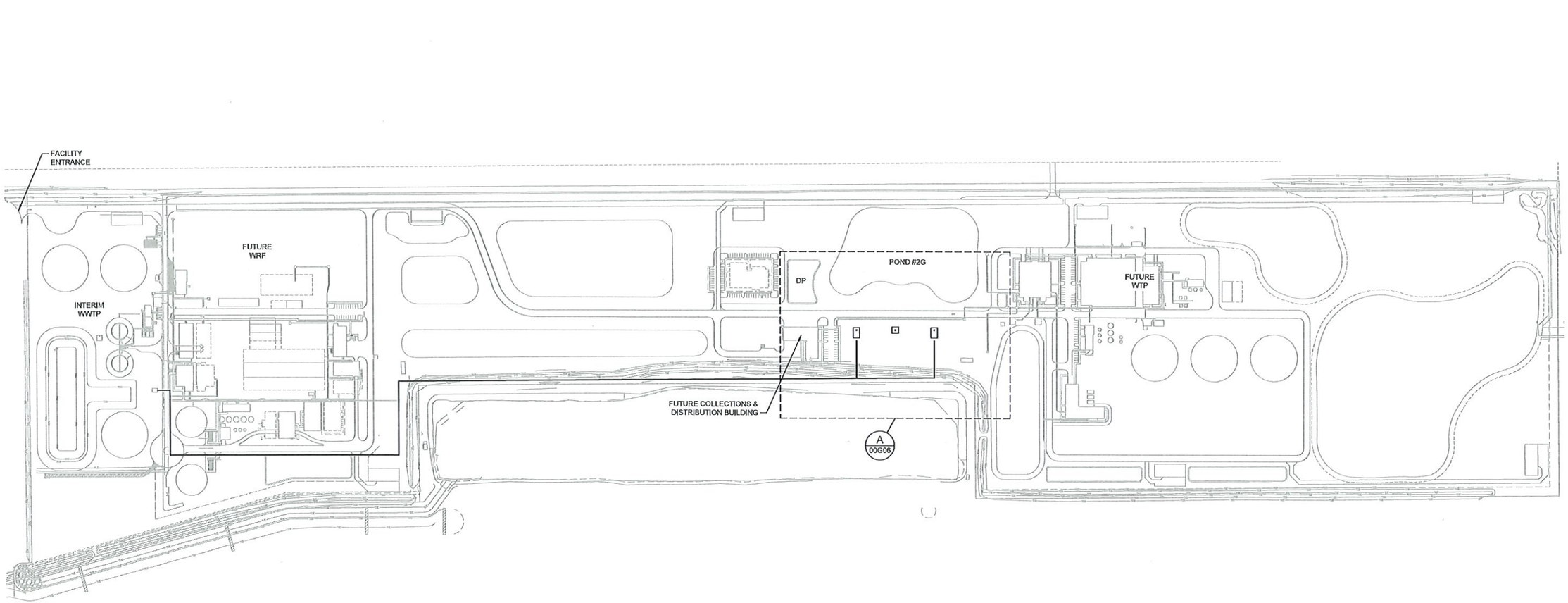
JOB NO. 7126I.10
DRAWING NO. 00G04
SHEET NO. 4 OF 62

PROJECT NO. 7126I10 FILE NAME: 7126I1000G04.dwg

Plot Date: 11/6/2025 3:52:46 PM

GENERAL NOTE:

1. PROJECT SCOPE OF WORK SHOWN IN BOLD.



PLAN

FILE: 7126I1000C100

0 100' 200' 400'

SCALE: 1" = 200'

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NORTHEAST WRF/WTP -DIW CONVEYANCE

GENERAL

OVERALL SITE PLAN

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JOB NO. 7126I.10
DRAWING NO. 00G05
SHEET NO. 5 OF 62

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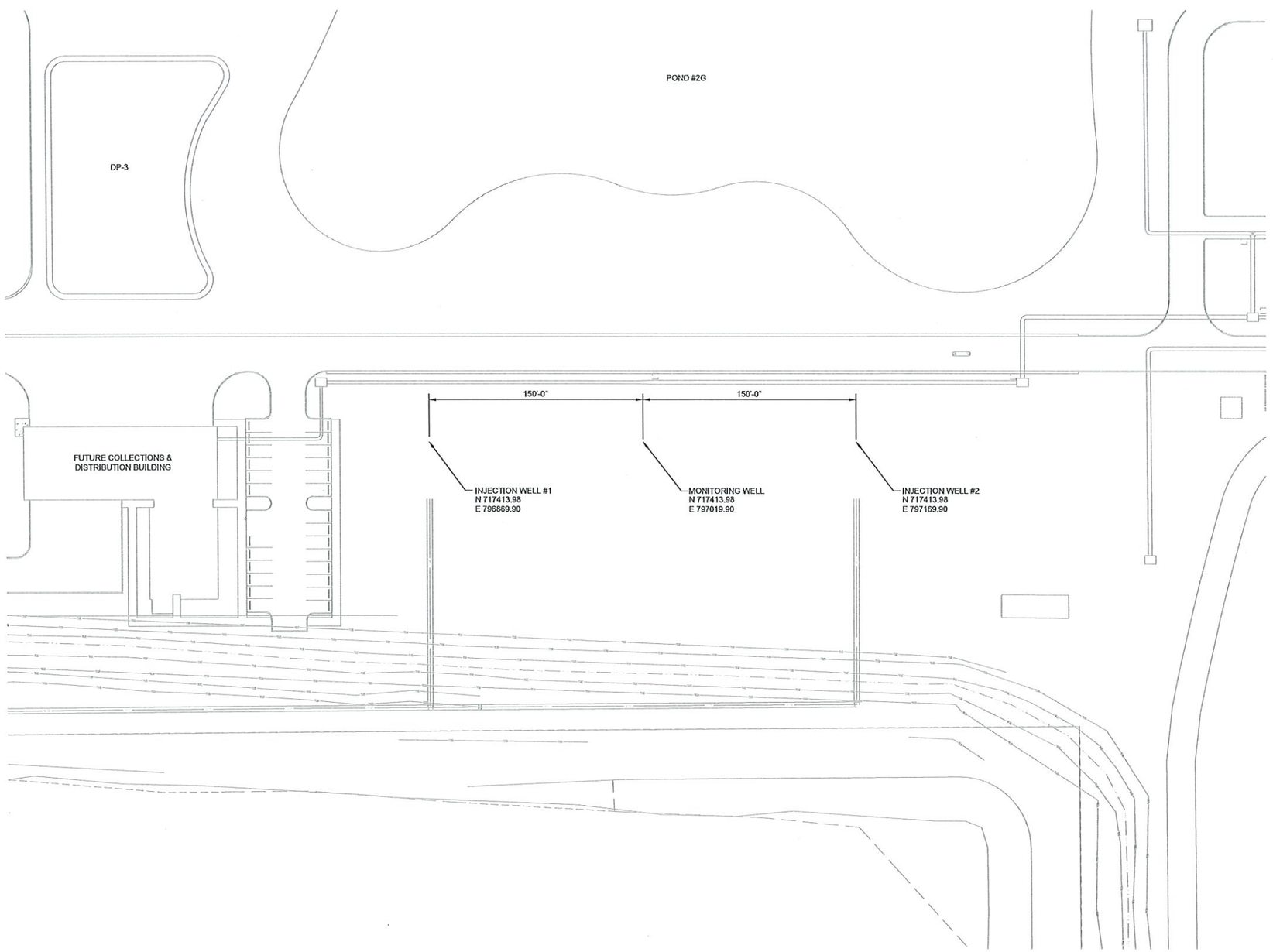
PROJECT NO. 7126I10 FILE NAME: 7126I1000G05.dwg



GENERAL NOTES:

1. AFTER WELL CONSTRUCTION ACTIVITIES ARE COMPLETE, THE INJECTION WELL PADS ARE NOT, UNLESS SPECIFIC APPROVAL IS OBTAINED FROM THE DEPARTMENT, TO BE USED FOR STORAGE OF ANY MATERIAL OR EQUIPMENT AT ANY TIME
2. CONTRACTOR SHALL CONDUCT A SITE SURVEY PRIOR TO CONSTRUCTION. SEE SPECIFICATION SECTION 13 40 00 FOR SURVEY REQUIREMENTS.
3. SITE IS CURRENTLY UNDER DEVELOPMENT. CONTRACTOR SHALL USE EXISTING CONSTRUCTION ACCESS ROADS FOR SITE ACCESS.
4. CONTRACTOR CAN UTILIZE AREA TO THE EAST OF THE INJECTION WELL SITES FOR A LAYDOWN AREA. LAYDOWN AREA SHALL NOT ENCROACH UPON ACCESS TO EXISTING STRUCTURES.

A PLAN
SCALE: 1" = 40'
FILE: 7126I1000C100

0 20' 40' 80'
SCALE: 1" = 40'

REV	DATE	BY	DESCRIPTION
1	10/25	RC	BID SET

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NORTHEAST WRF/WTP -DIW CONVEYANCE
GENERAL
ENLARGED SITE PLAN OF DEEP INJECTION WELL

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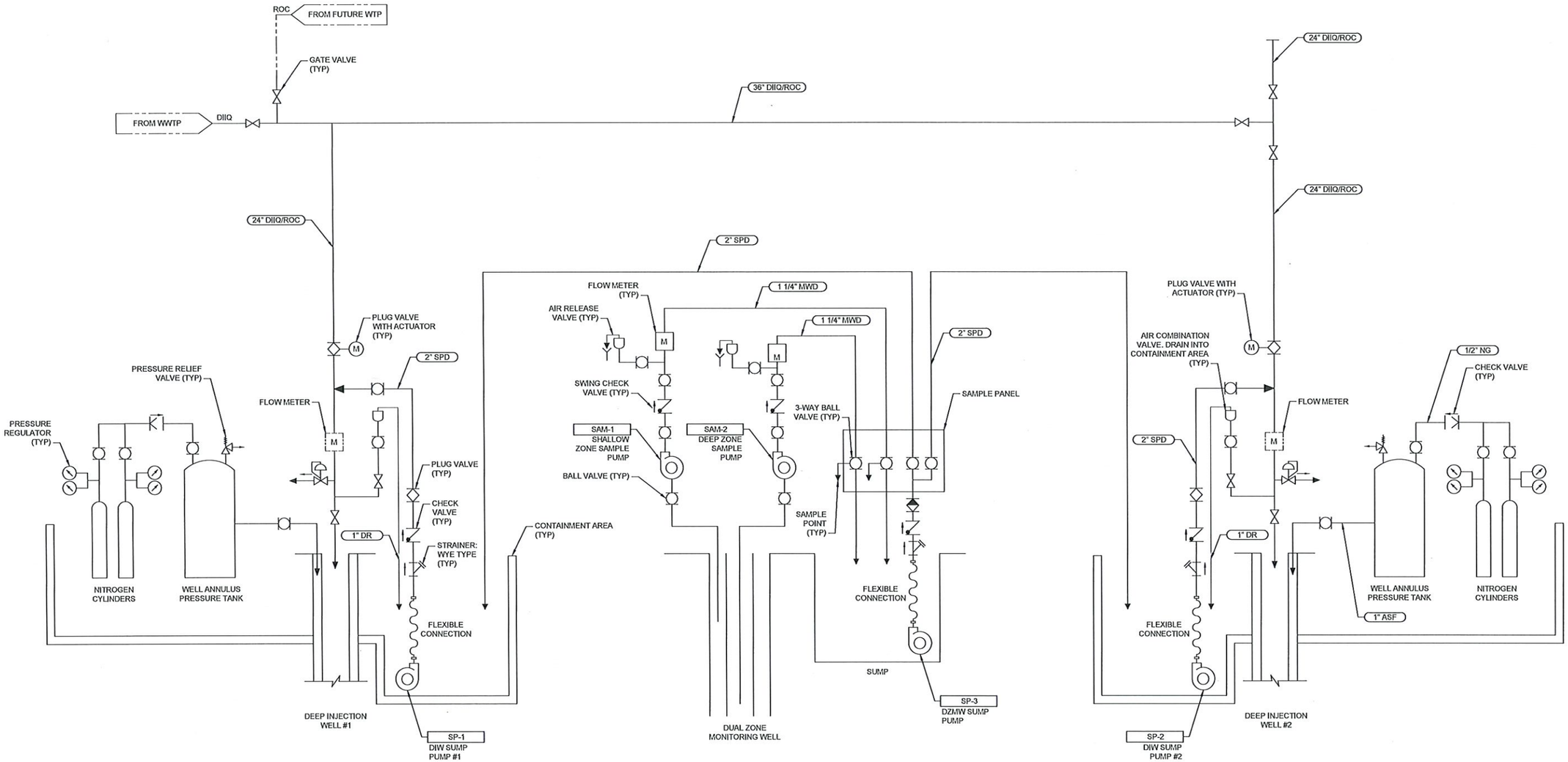
JOB NO. 7126I.10
DRAWING NO. 00G06
SHEET NO. 6 OF 62

PROJECT NO. 7126I10 FILE NAME: 7126I1000G06.dwg

Plot Date: 11/17/2025 11:25:48 AM

GENERAL NOTES:

1. SEE DRAWING G02 FOR PIPE SCHEDULE



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COLLIER COUNTY

NORTHEAST WRF/WTP -DIW CONVEYANCE

GENERAL

INJECTION WELLS AND MONITORING WELL PROCESS FLOW DIAGRAM

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JOB NO. 7126I.10
DRAWING NO. 00G07
SHEET NO. 7 OF 62

LAST SAVED BY: Alaico

PROJECT NO. 7126I10 FILE NAME: 7126I1000G07.dwg

Plot Date: 11/5/2025 4:26:47 PM

ABBREVIATIONS

AC	ACRE
ALT	ALTERNATE
APPROX.	APPROXIMATE
ASB	ASBESTOS
BM	BENCH MARK
BLDG	BUILDING
BOT	BOTTOM
CB	CATCH BASIN
CF	CUBIC FEET
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CIP	CAST IRON PIPE
CJ	CONSTRUCTION JOINT
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
CV	CHECK VALVE
CF	CUBIC FOOT
CY	CUBIC YARD
℄	CENTER LINE
CLKG	CAULKING
CLF	CHAIN LINK FENCE
COL	COLUMN, COLOR
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CTRS	CENTERS
CU	COPPER
CU. IN.	CUBIC INCH
DIA., ⌀	DIAMETER
DIAG	DIAGONAL
DIQ	DEEP INJECTION IRRIGATION QUALITY MAIN
DIM	DIMENSION
DIST.	DISTANCE
DIP	DUCTILE IRON PIPE
DE	DRAINAGE EASEMENT
DWG	DRAWING
E	EAST
EL/ELEV	ELEVATION
EQUIP	EQUIPMENT
ERCP	ELLIPTICAL REINFORCED CONCRETE PIPE
ESMT	EASEMENT
EX	EXISTING
FF	FINISHED FLOOR
FFE	FINISHED FLOOR ELEVATION
FM	FORCE MAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FIN	FINISH
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FEET
G	NATURAL GAS
GC	GENERAL CONTRACTOR
GI	GALVANIZED IRON
GPM	GALLONS PER MINUTE
GV	GATE VALVE
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GR	GRADE
HDPE	HIGH DENSITY POLYETHYLENE
HOR	HORIZONTAL
HYD	HYDRANT
ID	INSIDE DIAMETER
INV	INVERT
IRR	IRRIGATION
LAE	LAKE ACCESS EASEMENT
LF	LINEAL FEET
LME	LAKE MAINTENANCE EASEMENT
LMT	LAKE MAINTENANCE TRACT
MGD	MILLION GALLONS PER DAY
MH	MANHOLE
MJ	MECHANICAL JOINT
MAX	MAXIMUM
MECH	MECHANICAL
MES	MITERED END SECTION
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
N	NORTH
NE	NORTHEAST
NW	NORTHWEST
NPW	NON POTABLE WATER
NTS	NOT TO SCALE
NUM/#	NUMBER
NG	NATURAL GAS
OC	ON CENTERS
OCEW	ON CENTER EACH WAY
OD	OUTSIDE DIAMETER
PCF	POUNDS PER CUBIC FOOT
PSF	POUNDS PER SQUARE FOOT
PV	PLUG VALVE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
POLY, PE.	POLYETHYLENE
PAVT	PAVEMENT
PC	POINT OF CURVATURE
PGL	PROPOSED GRADE LINE
℄	PROPERTY LINE
PLBG	PLUMBING
PLWD	PLYWOOD
PW	POTABLE WATER
PUE	PUBLIC UTILITY EASEMENT
QUAN	QUANTITY
R	RADIUS
RD	ROAD
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT OF WAY
RU	REUSE LINE
R/W	RIGHT OF WAY
S	SOUTH
SE	SOUTHEAST
SW	SOUTHWEST
SS	SANITARY SEWER
SAN	SANITARY
SCH	SCHEDULE
SECT	SECTION
SEW	SEWER
SH	SHEET
SQ	SQUARE
ST	STREET
STA	STATION
STL	STEEL
STD	STANDARD
TOE	TOE OF SLOPE
TOB	TOP OF BANK
THK	THICK
TEL	TELEPHONE
TEMP	TEMPERATURE
TRANS	TRANSFORMER
TYP	TYPICAL
UE	UTILITY EASEMENT
VERT	VERTICAL
W	WATER
WM	WATER MAIN
W/	WITH
W/O	WITHOUT
WV	WATER VALVE

UTILITY LINETYPES

	EXISTING	PROPOSED
WATER MAIN	EX WM	WM
WATER MAIN WITH SIZE	EX 8" WM	PR. 8" WM
FORCE MAIN	EX FM	FM
FORCE MAIN WITH SIZE	EX 8" FM	PR. 8" FM
IRRIGATION MAIN	EX IRR	IRR
IRRIGATION MAIN WITH SIZE	EX 8" IRR	PR. 8" IRR
REUSE MAIN	EX. RU	RU
REUSE MAIN WITH SIZE	EX 8" RU	PR. 8" RU
IQ MAIN	EX. IQ	IQ
IQ MAIN WITH SIZE	EX 8" IQ	PR. 8" IQ
RAW WATER MAIN	EX RW	RW
RAW WATER MAIN WITH SIZE	EX 8" RW	PR. 8" RW
SANITARY SEWER	EX SS	SS
SANITARY SEWER WITH SIZE	EX 8" SS	PR. 8" SS
CABLE TELEVISION	EX TV	
ELECTRIC	EX ELEC	
OVERHEAD ELECTRIC	EX O/G-ELEC	
UNDERGROUND ELECTRIC	EX O/H-E	
GAS MAIN	EX GAS	
GAS MAIN WITH SIZE	EX 8" GAS	
DRAINAGE	EX SD	
DRAINAGE WITH SIZE	EX 8" DR	
STORM WATER	EX STM	

"FUTURE" UTILITY LINETYPES

FUTURE LINE WORK GRAYED BACK FOR CLARITY ON PLAN SHEETS

AIR LOW PRESSURE PROCESS	ALP
DRAIN SYSTEM	D
ELECTRICAL CONDUIT / DUCT BANK	EL
EQUILIZED BASIN EFFLUENT	EBE
EQUILIZED BASIN INFLUENT	EBI
FILTER EFFLUENT	FLE
FIRE PROTECTION WATER	FPW
FLORIDA POWER & LIGHT	FPL
FOUL AIR	FA
IRRIGATION WATER GROUNDWATER	IRG
PLANT DRAIN DISCHARGE	PDD
PLANT WATER	PLW
POTABLE WATER	PW
RAW SEWAGE	RS
RAW WATER BRACKISH	RWB
RAW WATER FRESH	RWF
RECLAIN WATER	REW
REJECT WATER	RJW
RETURN ACTIVATED SLUDGE	RAS
REVERSE OSMOSIS CONCENTRATE	ROC
SCUM	S
SECONDARY INFLUENT	SCI
STORM WATER	STW
WASTE ACTIVATED SLUDGE	WAS
WASTE RAW WATER	WRW

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SYMBOLS

- GATE VALVE
- TEE ASSEMBLY
- REDUCER
- AIR RELEASE VALVE
- 11.25° BEND
- 22.5° BEND
- 45° BEND
- 90° BEND
- VERTICAL DEFLECTION
- PLUG VALVE

BEFORE YOU DIG STOP CALL SUNSHINE 1-800-432-4770 AVOID DAMAGE TO UNDERGROUND FACILITIES

811 Know what's below. Call before you dig.

NOTICE TO ALL CONTRACTORS

IT'S THE LAW IN FLORIDA
2 BUSINESS DAYS BEFORE YOU DIG
CALL SUNSHINE 1-800-432-4770

STATE, COUNTIES & CITIES ARE "NOT" PART OF THE ONE CALL SYSTEM. THEY MUST BE CALLED INDIVIDUALLY.

STATE OF FLORIDA DOT
ALL INTERSTATE RIGHT-OF-WAY
HIGHMAST LIGHTING
7-DAY NOTICE REQUIRED
239-656-7811
239-656-7742 FAX

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REV	DATE	BY	DESCRIPTION
1	10/25	RC	BID SET

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DATE NOVEMBER, 2025

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Collier County

COLLIER COUNTY
NORTHEAST WRF/WTP -DIW CONVEYANCE
GENERAL
NOTES & LEGENDS

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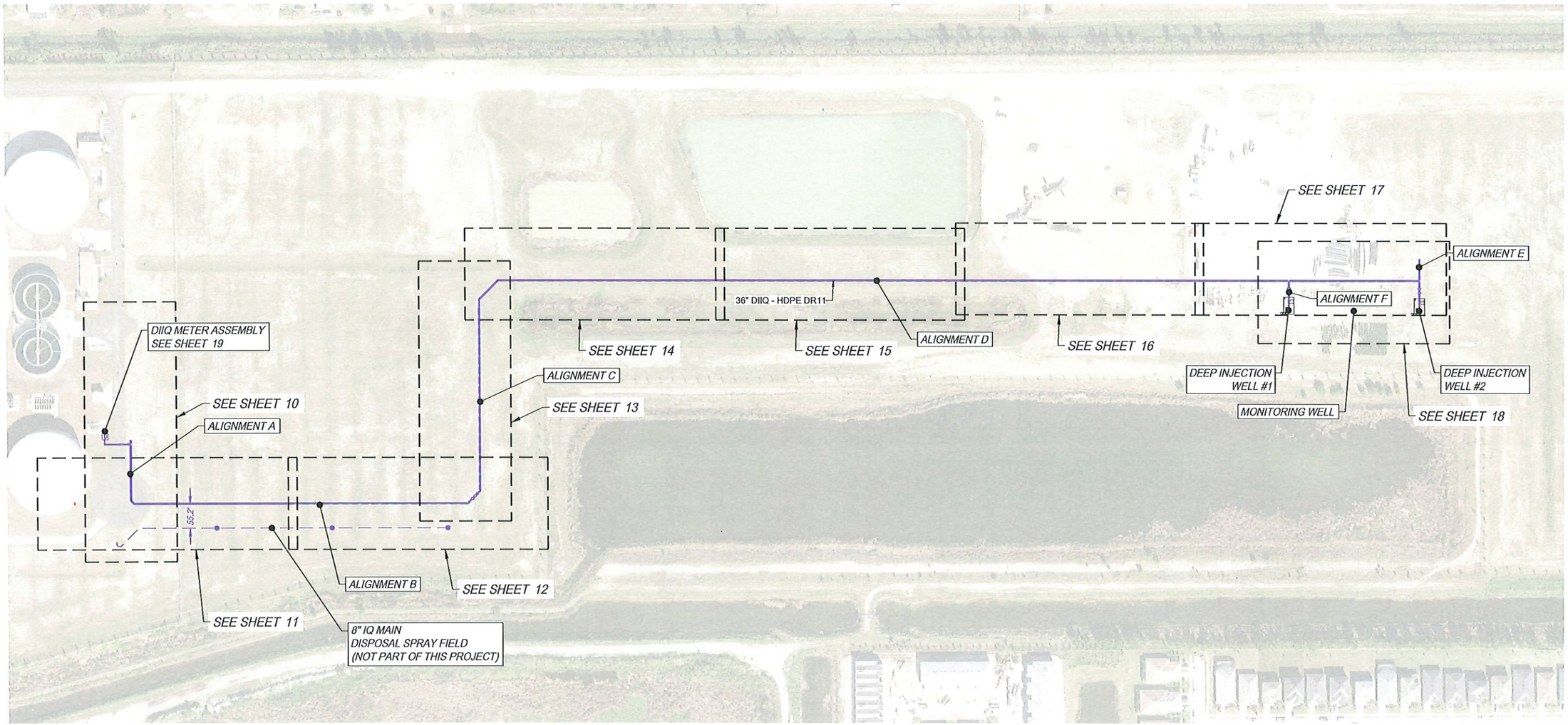
JOB NO. 71261.10
DRAWING NO. 00C01
SHEET NO. 08 OF 61

LAST SAVED BY: Michael.Tipoo

PROJECT NO. 71261.10 FILE NAME: 20203210-001_Cover.dwg



ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88).
CONVERSION FACTOR TO NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD '29) IS (+) 1.257

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Collier County

COLLIER COUNTY
NORTHEAST WRF/WTP –DIW CONVEYANCE
GENERAL
KEY MAP

VERIFY SCALES
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JOB NO. 71261.10
DRAWING NO. 00C02
SHEET NO. 09 OF 62

PROJECT NO. 71261.10
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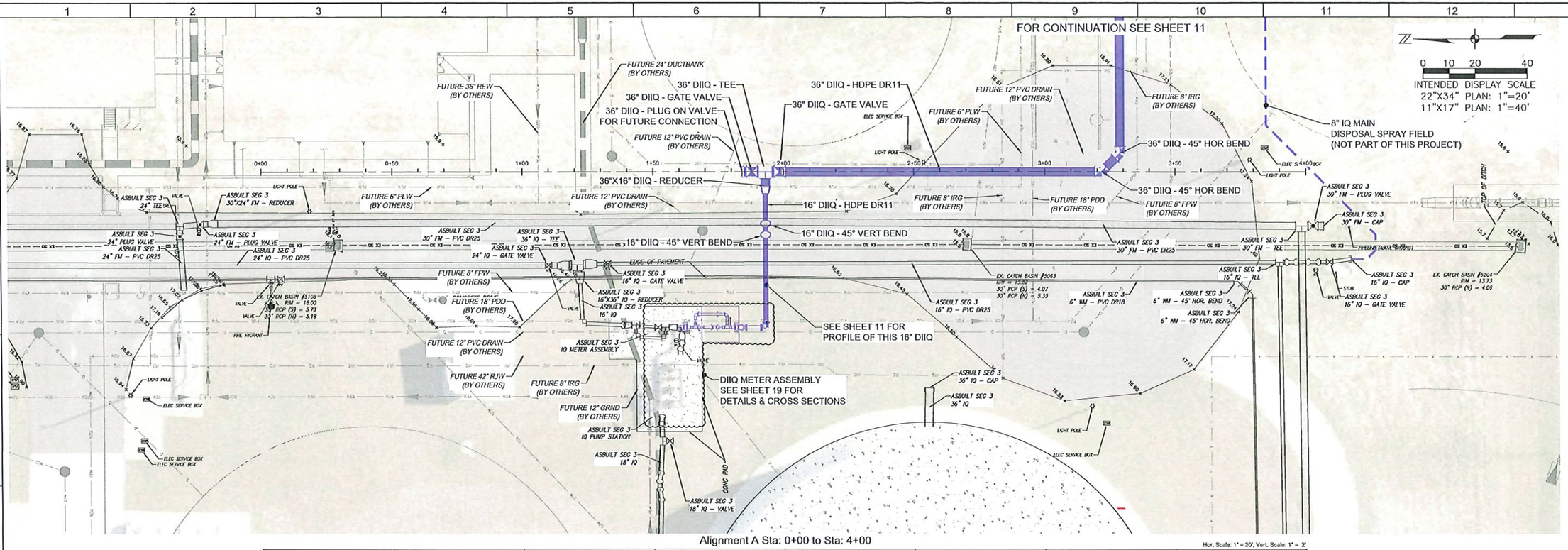
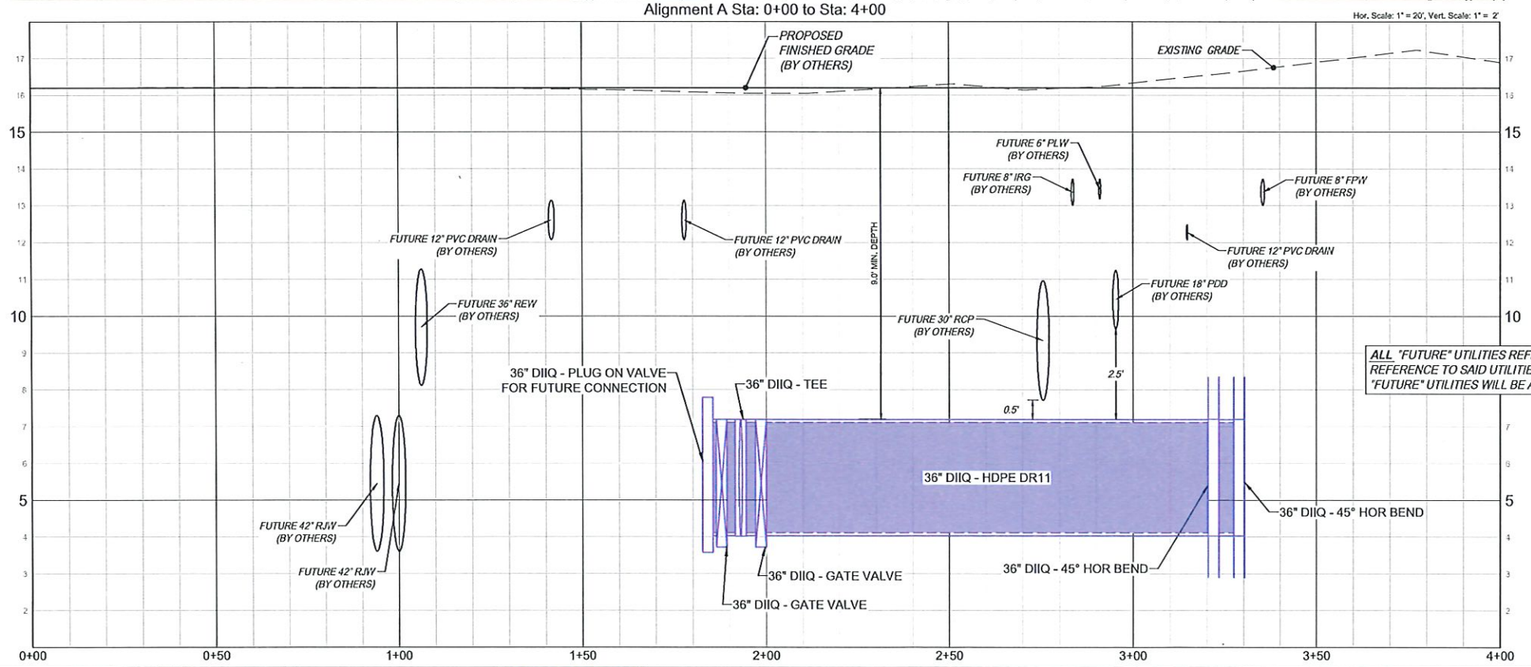


Alignment A Sta: 0+00 to Sta: 4+00

Hor. Scale: 1" = 20', Vert. Scale: 1" = 2'



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GENERAL
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JOB NO. 71261.10
DRAWING NO. 00C03
SHEET NO. 10 OF 62

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FOR CONTINUATION SEE SHEET 10

ASBUILT SEG 3 IQ METER ASSEMBLY
ASBUILT SEG 3 IQ PUMP STATION
VALVE
CONC PAD
DIIQ METER ASSEMBLY SEE SHEET 19 FOR DETAILS & CROSS SECTIONS
36"X16" DIIQ - REDUCER
16" DIIQ - HDPE DR11
36" DIIQ - PLUG ON VALVE FOR FUTURE CONNECTION
36" DIIQ - GATE VALVE
36" DIIQ - TEE
36" DIIQ - GATE VALVE
CONTRACTOR TO VERIFY THAT BELL OF DRAINAGE PIPE WILL NOT BE IN CONFLICT. CROSSING MAY BE ADJUSTED (NORTH OR SOUTH) AS NEEDED TO ALLOW FOR INSTALLATION
16" DIIQ - 45° VERT BEND
16" DIIQ - 45° VERT BEND
36" DIIQ - HDPE DR11
LIGHT POLE
ELEC SERVICE BOX
ASBUILT SEG 3 36" IQ
ASBUILT SEG 3 36" IQ - CAP
ASBUILT SEG 3 6" WM - PVC DR18
ASBUILT SEG 3 16" IQ - PVC DR25
ASBUILT SEG 3 30" FM - PVC DR25
EX. CATCH BASIN
FM = 15.52
30" RCP (S) = 4.47
30" RCP (N) = 5.39
FUTURE 8" IRG (BY OTHERS)
FUTURE 6" PLW (BY OTHERS)
FUTURE 18" PDD (BY OTHERS)
FUTURE 12" PVC DRAIN (BY OTHERS)
36" DIIQ - 45° HOR BEND
36" DIIQ - 45° HOR BEND
ASBUILT SEG 3 30" FM - PVC DR25
ASBUILT SEG 3 6" WM - PVC DR18
ASBUILT SEG 3 16" IQ - PVC DR25
FUTURE 8" FPW (BY OTHERS)
FUTURE 8" IRG (BY OTHERS)
FUTURE 30" RCP (BY OTHERS)
FUTURE 36" FA (BY OTHERS)
FUTURE 15" RCP (BY OTHERS)
FUTURE 24" EBI (BY OTHERS)
FUTURE 16" EBE (BY OTHERS)
MATCHLINE SEE SHEET 12

N

0 10 20 40
INTENDED DISPLAY SCALE
22"X34" PLAN: 1"=20'
11"X17" PLAN: 1"=40'

Alignment B (Offset) Sta: 2+50 to Sta: 3+50
Hor. Scale: 1" = 20', Vert. Scale: 1" = 2'

EXISTING GRADE
PROPOSED FINISHED GRADE (BY OTHERS)
ASBUILT SEG 3 16" IQ - PVC DR25
ASBUILT SEG 3 6" WM - PVC DR18
ASBUILT SEG 3 30" FM - PVC DR25
16" DIIQ - 45° VERT BEND
16" DIIQ - 45° VERT BEND
ASBUILT SEG 3 30" RCP
16" DIIQ - 90° HOR BEND
16" DIIQ - HDPE DR11
36"X16" DIIQ - REDUCER
9.0' MIN. DEPTH

Alignment B Sta: 3+00 to Sta: 7+00
Hor. Scale: 1" = 20', Vert. Scale: 1" = 2'

EXISTING GRADE
PROPOSED FINISHED GRADE (BY OTHERS)
FUTURE 8" FPW (BY OTHERS)
FUTURE 8" IRG (BY OTHERS)
FUTURE 36" FA (BY OTHERS)
PROPOSED DEPTH NOT FOUND IN FUTURE PLANS
FUTURE 15" RCP (BY OTHERS)
FUTURE 24" EBI (BY OTHERS)
FUTURE 16" E (BY OTHERS)
9.0' MIN. DEPTH
36" DIIQ - HDPE DR11
36" DIIQ - 45° HOR BEND
36" DIIQ - 45° HOR BEND

ALL "FUTURE" UTILITIES REFERENCES ON THESE PLANS ARE CURRENTLY UNDER DESIGN. REFERENCE TO SAID UTILITIES ARE FOR INFORMATION PURPOSES ONLY. "FUTURE" UTILITIES WILL BE ADJUSTED BASED ON AS-BUILT LOCATION OF PROPOSED DIIQ MAIN.

ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88). CONVERSION FACTOR TO NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD '29) IS (+) 1.257

REV	DATE	BY	DESCRIPTION
1	10/25	RC	BID SET

DESIGNED MNT
DRAWN MNT
CHECKED JRB
DATE NOVEMBER, 2025

JARED ROY BROWN LICENSE NO. 60024 STATE OF FLORIDA PROFESSIONAL ENGINEER

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CA No. 00008571

Collier County

COLLIER COUNTY
NORTHEAST WRF/WTP –DIW CONVEYANCE
GENERAL
ALIGNMENT B 2+50_TO_7+00

VERIFY SCALES
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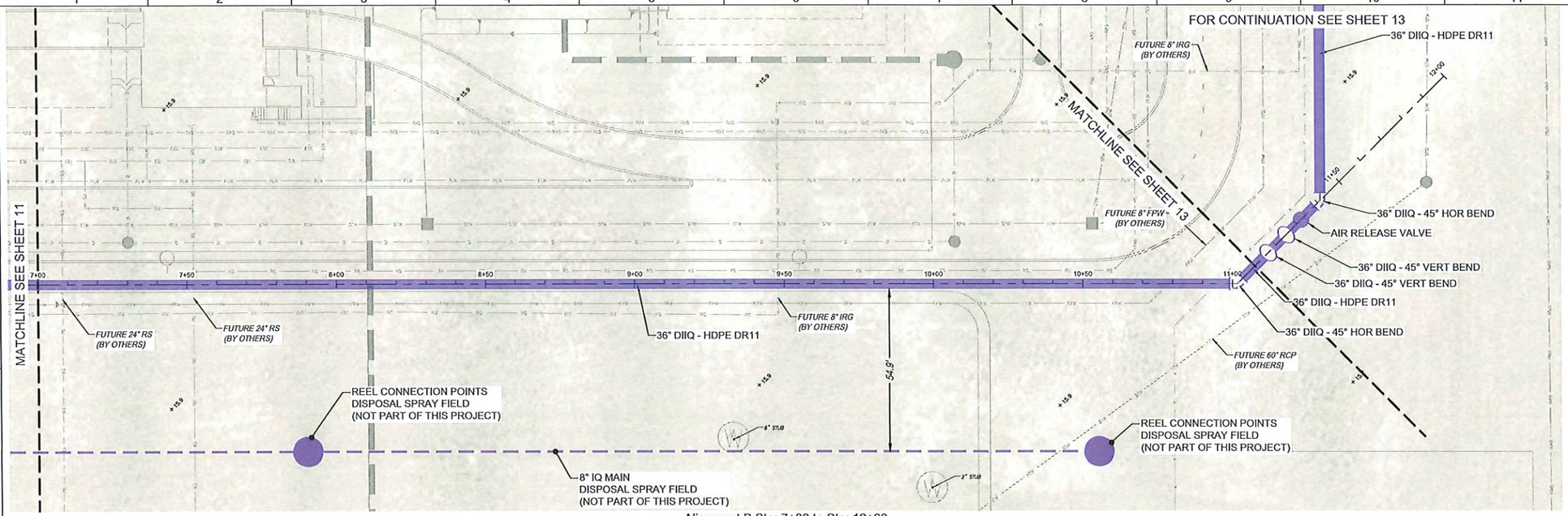
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 71261.10
DRAWING NO. 00C04
SHEET NO. 11 OF 62

LAST SAVED BY: MichaelTseo
Plot Date: 11/5/2025 4:28:14 PM
PROJECT NO. 71261.10
FILE NAME: 20203210-001_PP.dwg

Plot Date: 11/5/2025 4:28:49 PM



N

0 10 20 40

INTENDED DISPLAY SCALE
22"X34" PLAN: 1"=20'
11"X17" PLAN: 1"=40'

Alignment B Sta: 7+00 to Sta: 12+00

Hor. Scale: 1" = 20', Vert. Scale: 1" = 2'

***ALL** "FUTURE" UTILITIES REFERENCES ON THESE PLANS ARE CURRENTLY UNDER DESIGN.*
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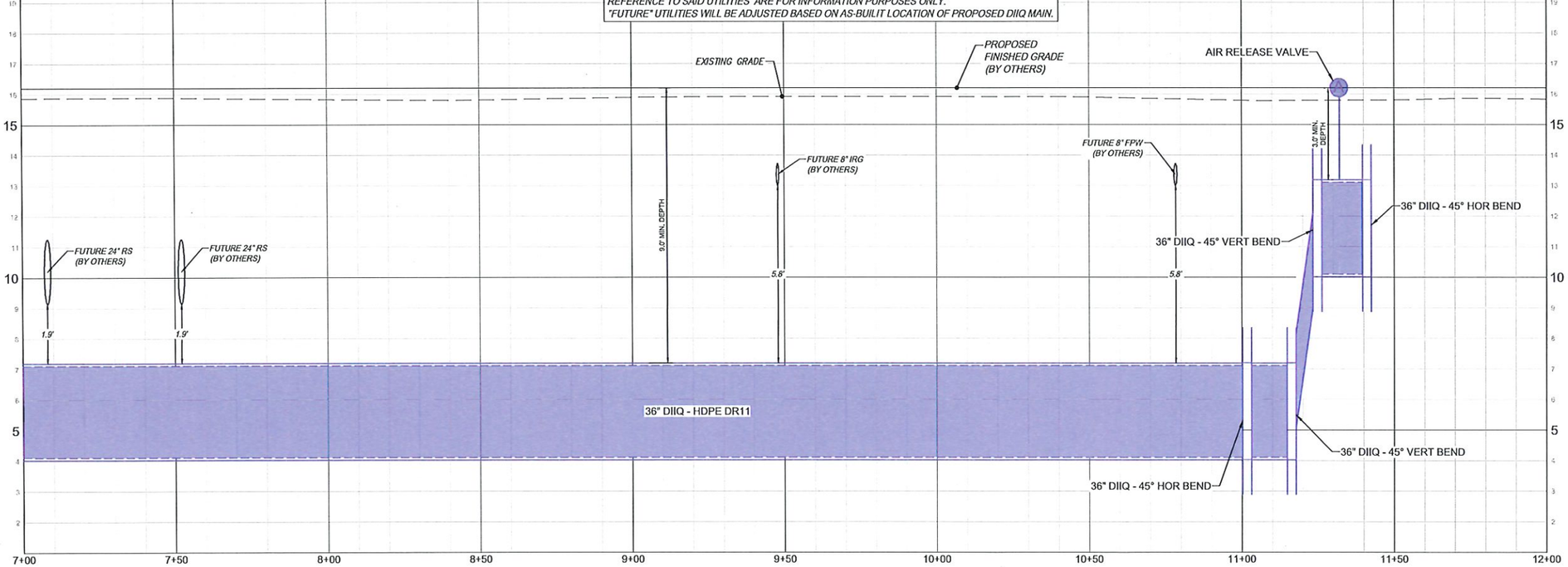

ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88). CONVERSION FACTOR TO NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD '29) IS (+) 1.25'

REV	DATE	BY	DESCRIPTION
1	10/25	RC	BID SET

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DATE NOVEMBER, 2025

JARED ROY BROWN — LICENSE NO. 60024 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

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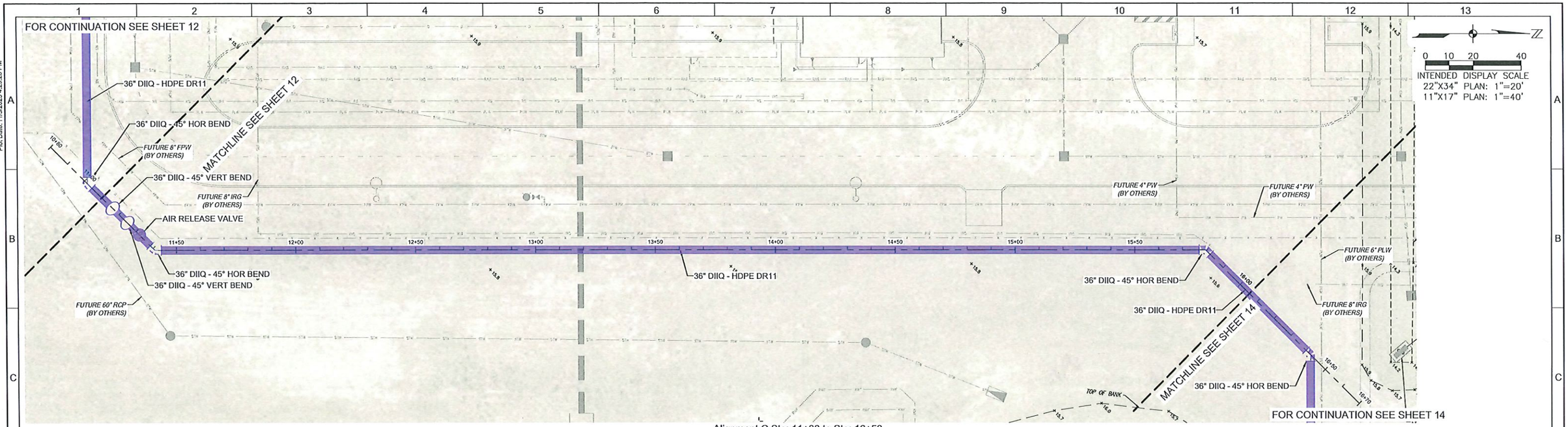
JOB NO. 71261.10
DRAWING NO. 00C05
SHEET NO. 12 OF 62

LAST SAVED BY: Michael.Tisoo

PROJECT NO. 71261.10 FILE NAME: 20203210-001_PP.dwg



Alignment C Sta: 11+00 to Sta: 16+50

Hor. Scale: 1" = 20', Vert. Scale: 1" = 2'

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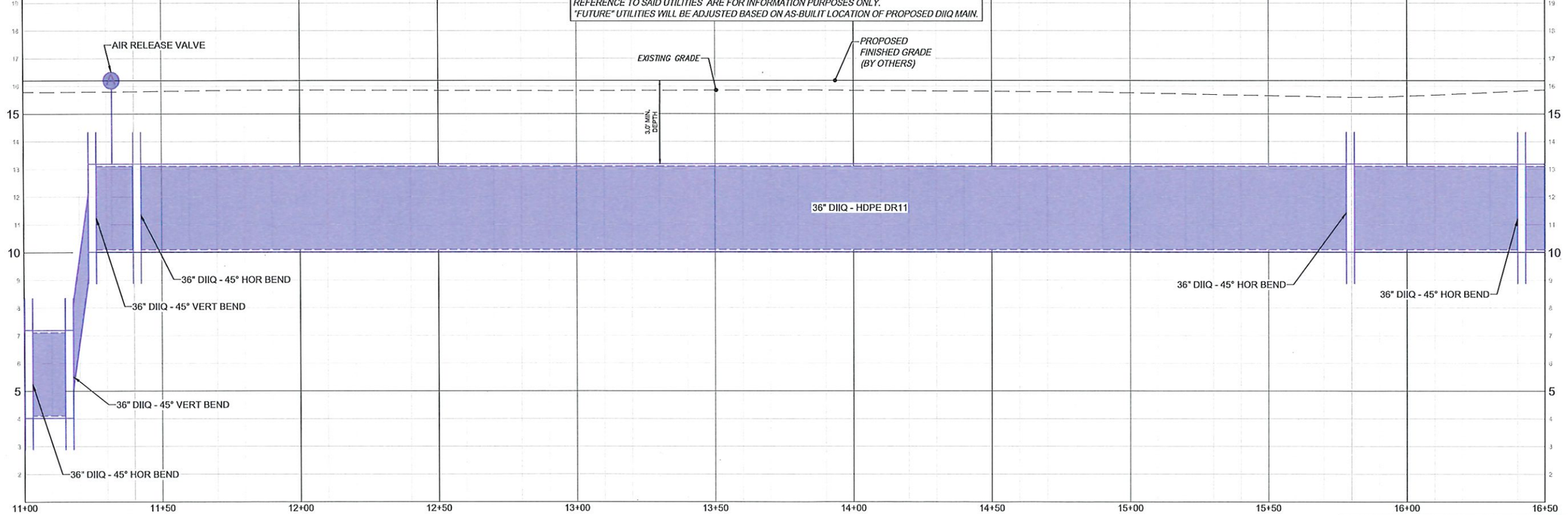

ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AVERICAN VERTICAL DATUM 1988 (NAVD '88). CONVERSION FACTOR TO NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD '29) IS (+) 1.257

REV	DATE	BY	DESCRIPTION
1	10/25	RC	BID SET

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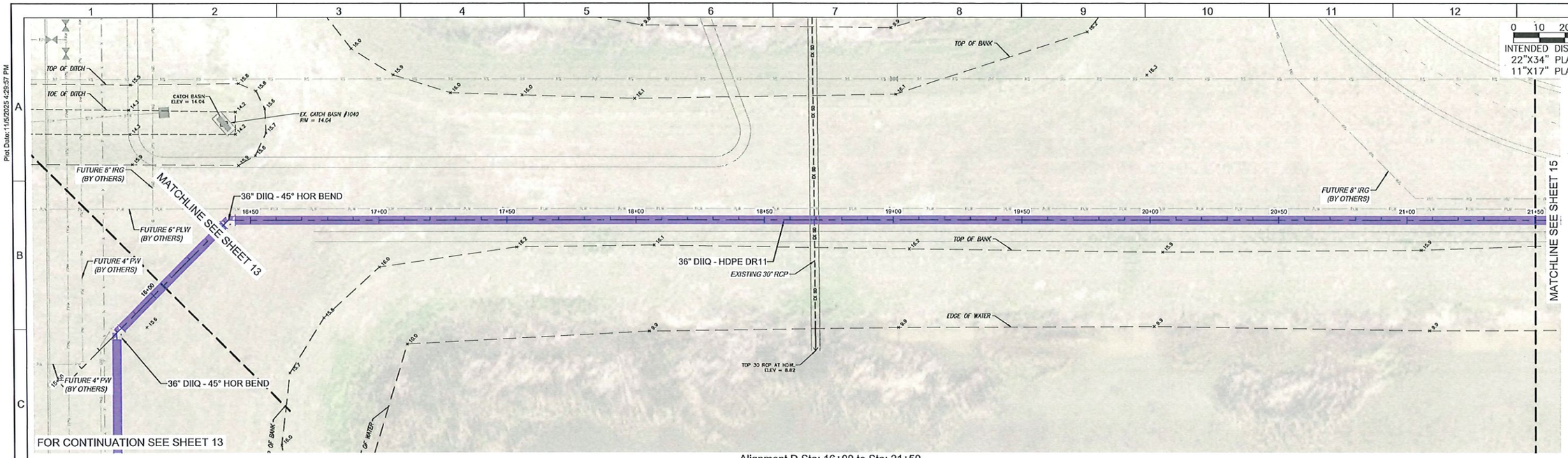
JOB NO. 71261.10
DRAWING NO. 00C06
SHEET NO. 13 OF 62



Alignment D Sta: 16+00 to Sta: 21+50

Hor. Scale: 1" = 20', Vert. Scale: 1" = 2'

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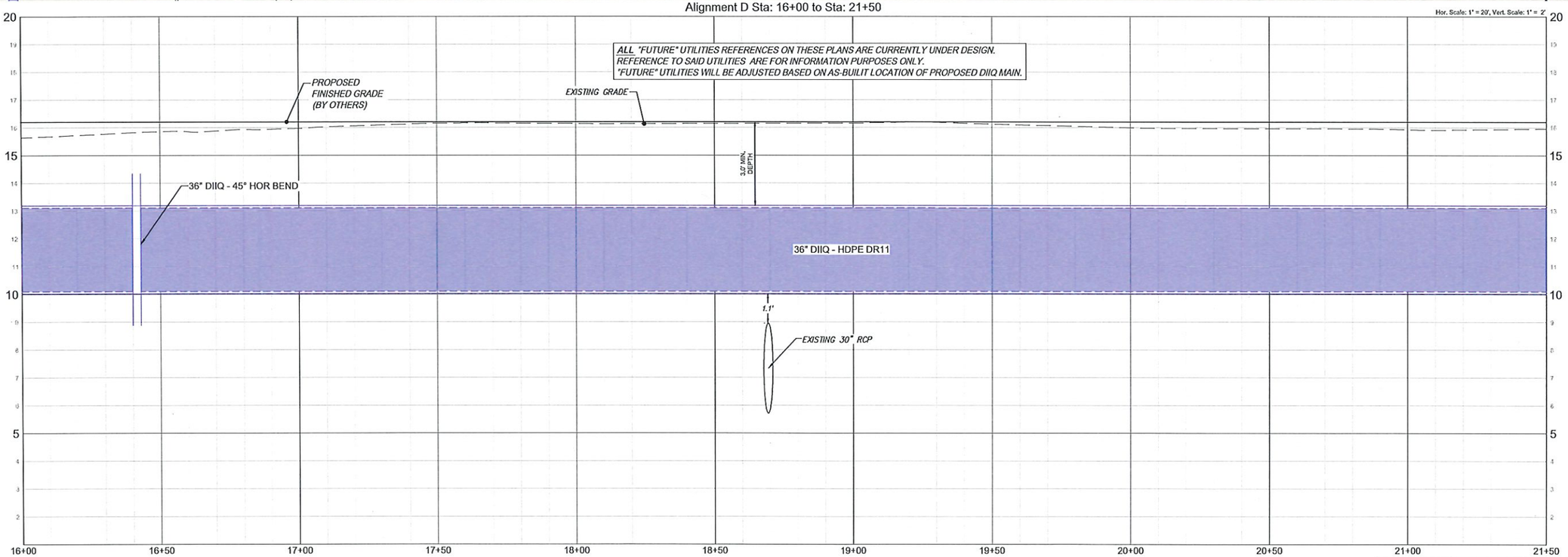

ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88). CONVERSION FACTOR TO NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD '29) IS (+) 1.257

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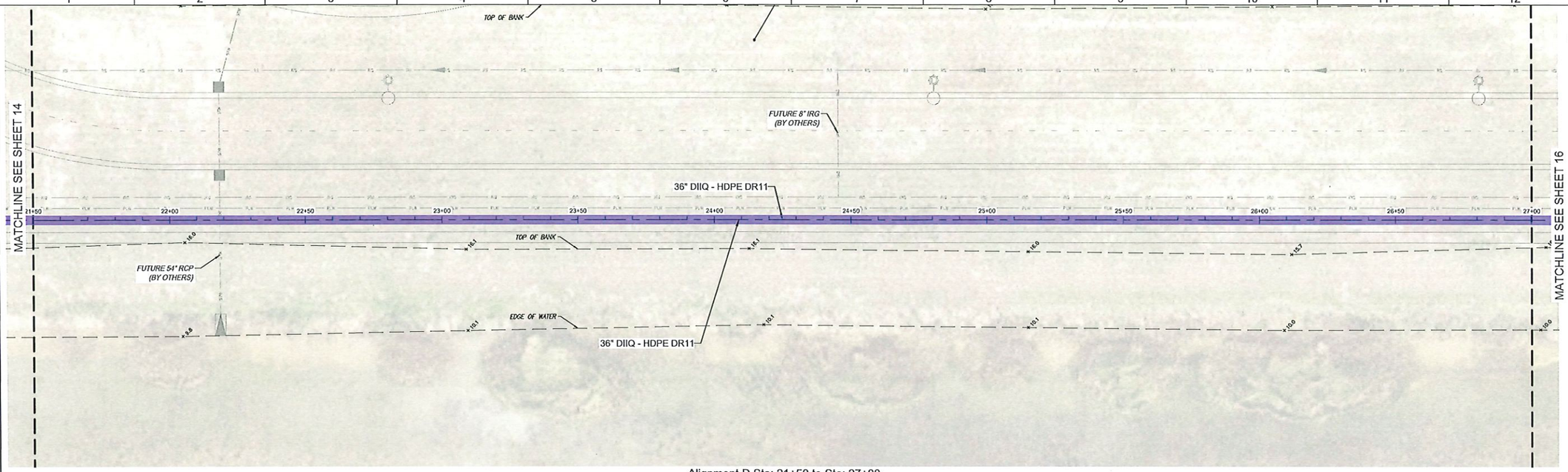
JOB NO. 71261.10
DRAWING NO. 00C07
SHEET NO. 14 OF 62

PROJECT NO. 71261.10 FILE NAME: 20203210-001_PP.dwg

Plot Date: 11/5/2025 4:30:31 PM



Alignment D Sta: 21+50 to Sta: 27+00

Hor. Scale: 1" = 20', Vert. Scale: 1" = 2'

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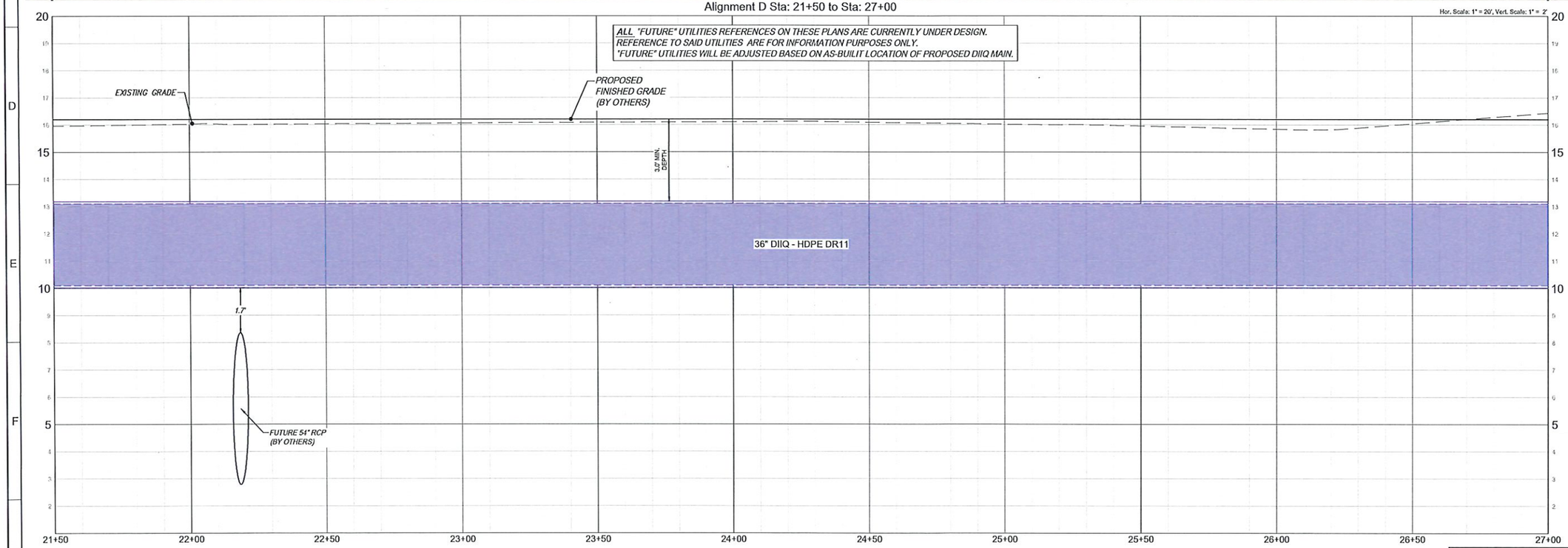

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INTENDED DISPLAY SCALE
22"X34" PLAN: 1"=20'
11"X17" PLAN: 1"=40'
0 10 20 40

N

REV	DATE	BY	DESCRIPTION
1	10/25	RC	BID SET

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CHECKED JRB
DATE NOVEMBER, 2025

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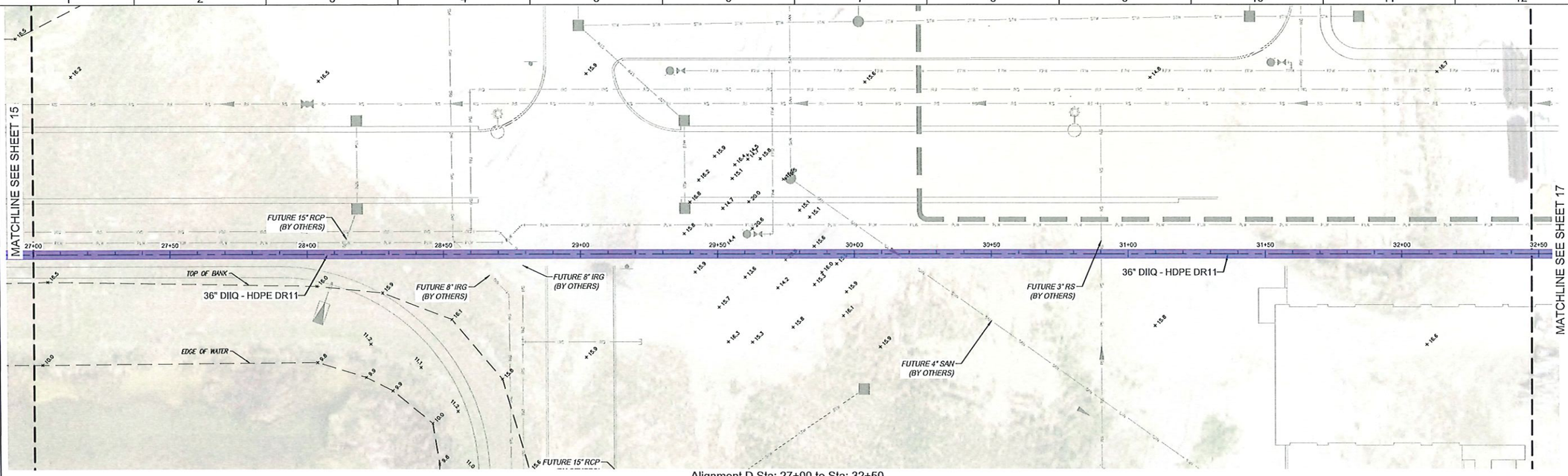
JOB NO. 71261.10
DRAWING NO. 00C08
SHEET NO. 15 OF 62

LAST SAVED BY: MichaelTsoo

PROJECT NO. 71261.10 FILE NAME: 20203210-001_PP.dwg

Plot Date: 11/5/2025 4:31:00 PM

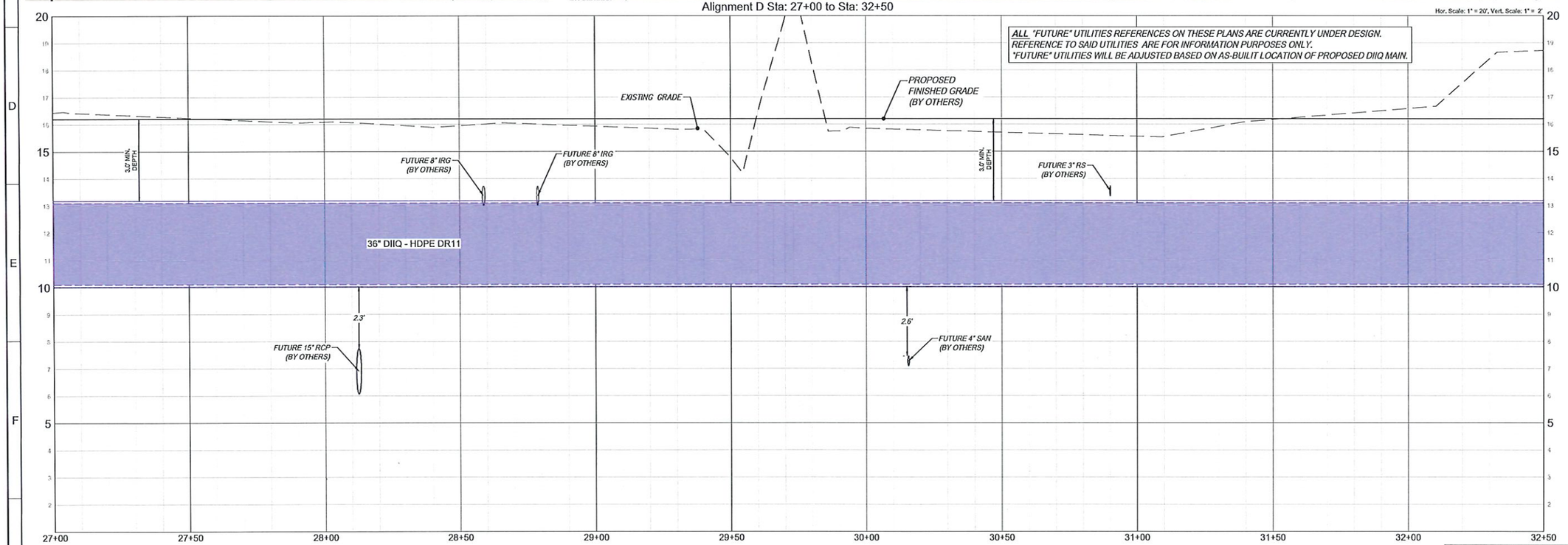


0 10 20 40
INTENDED DISPLAY SCALE
22"X34" PLAN: 1"=20'
11"X17" PLAN: 1"=40'

N

Alignment D Sta: 27+00 to Sta: 32+50

Hor. Scale: 1" = 20', Vert. Scale: 1" = 2'



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REV	DATE	BY	DESCRIPTION
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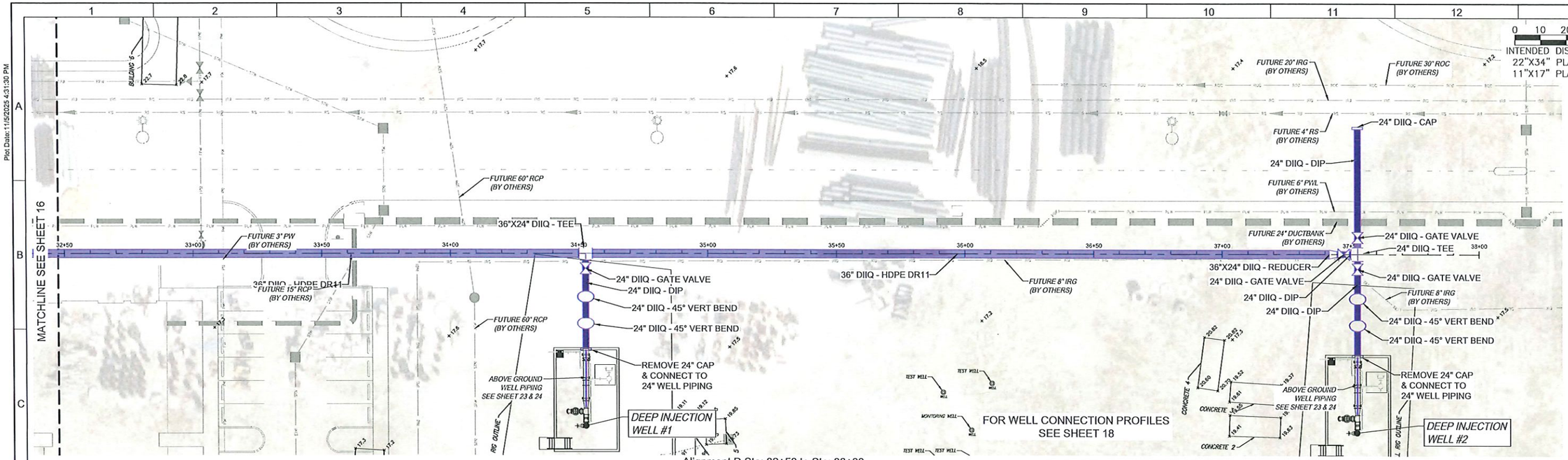
JOB NO. 71261.10
DRAWING NO. 00C09
SHEET NO. 16 OF 62

LAST SAVED BY: MichaelTseo

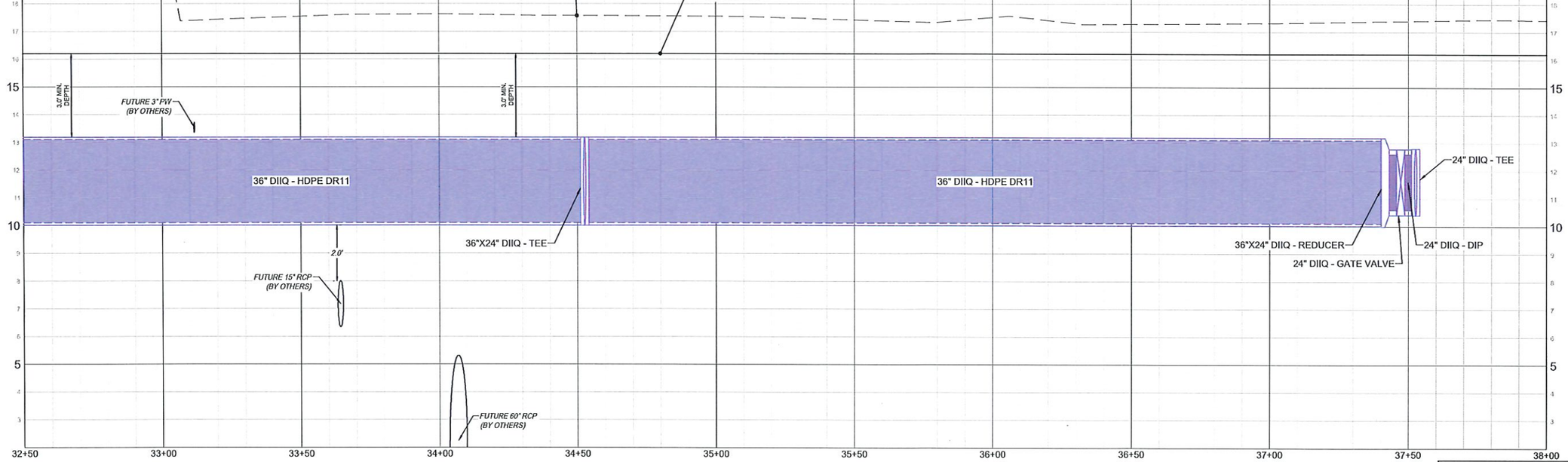
PROJECT NO. 71261.10 FILE NAME: 20203210-001_PP.dwg

Plot Date: 11/5/2025 4:31:30 PM



Alignment D Sta: 32+50 to Sta: 38+00

Hor. Scale: 1" = 20', Vert. Scale: 1" = 2'



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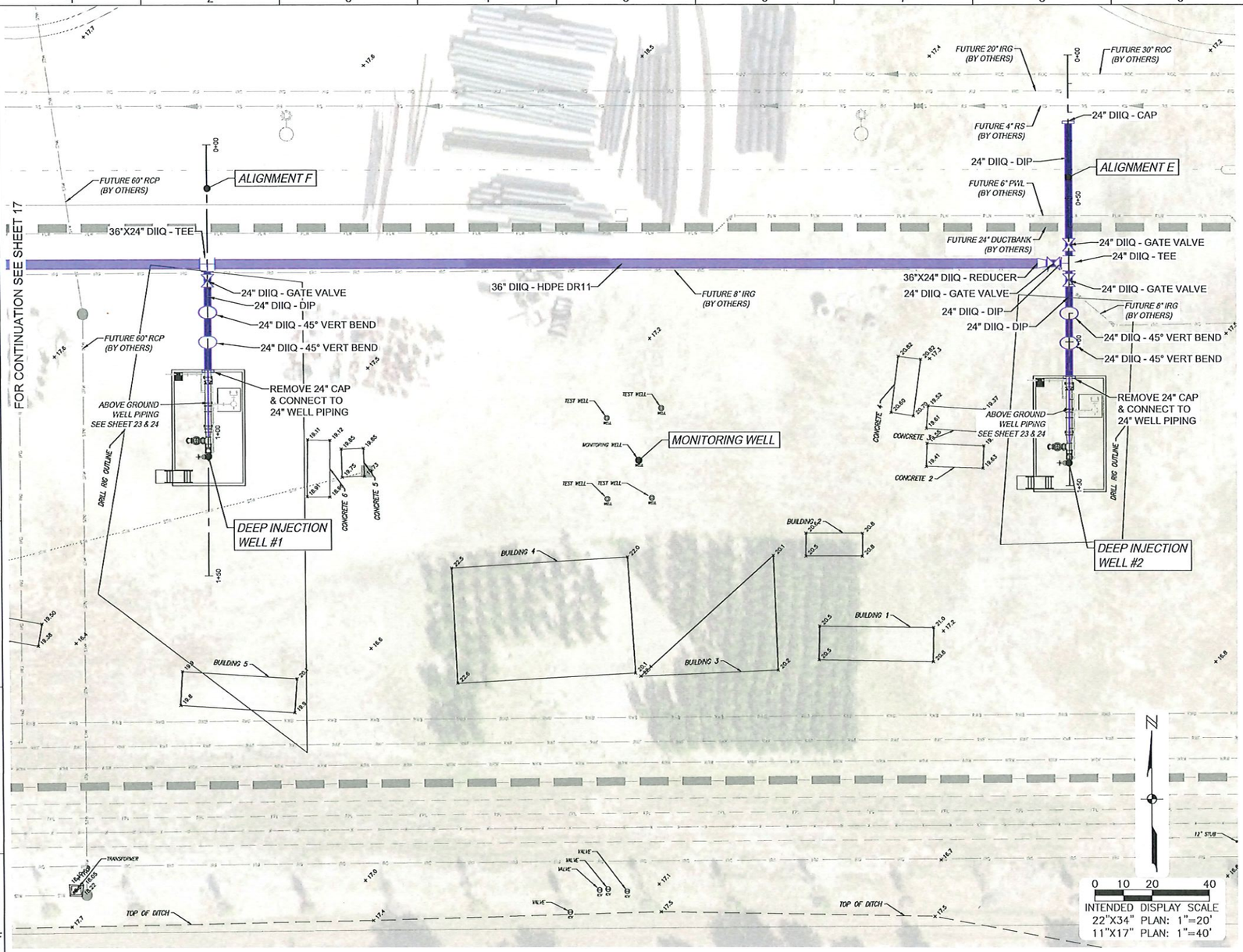
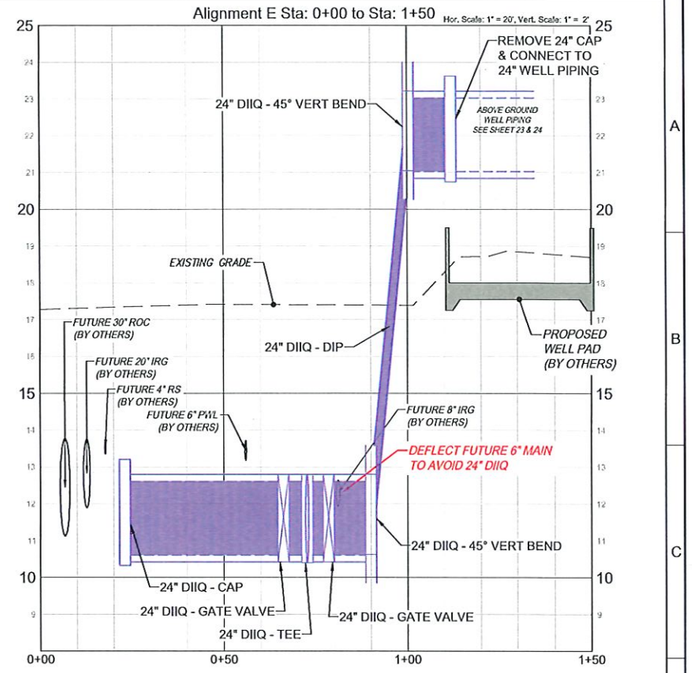
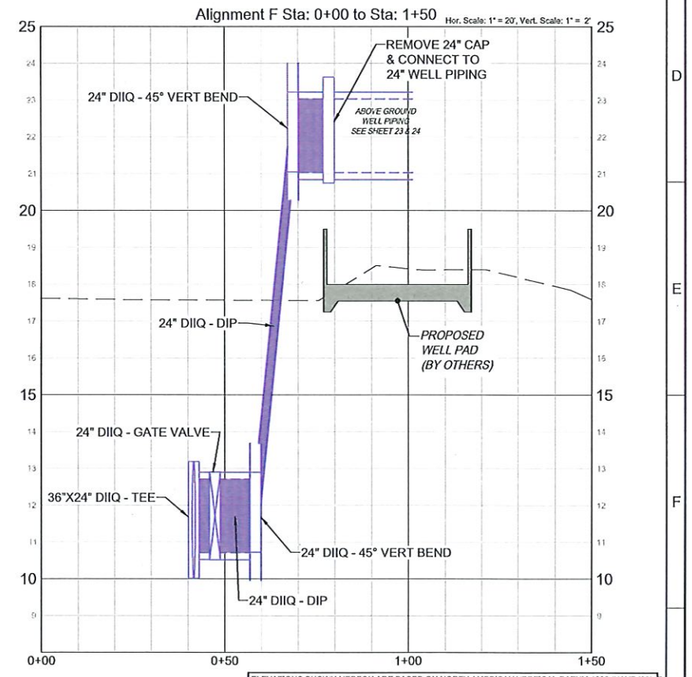
JOB NO. 71261.10
DRAWING NO. 00C10
SHEET NO. 17 OF 62

PROJECT NO. 71261.10 FILE NAME: 20203210-001_PP.dwg







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JOB NO. 71261.10
DRAWING NO. 00C11
SHEET NO. 18 OF 62

LAST SAVED BY: Michael.Tiseo

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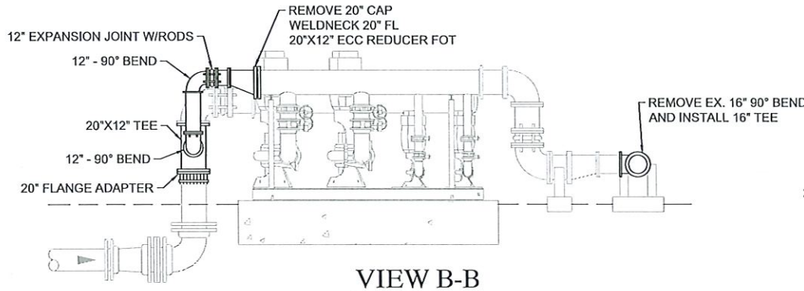
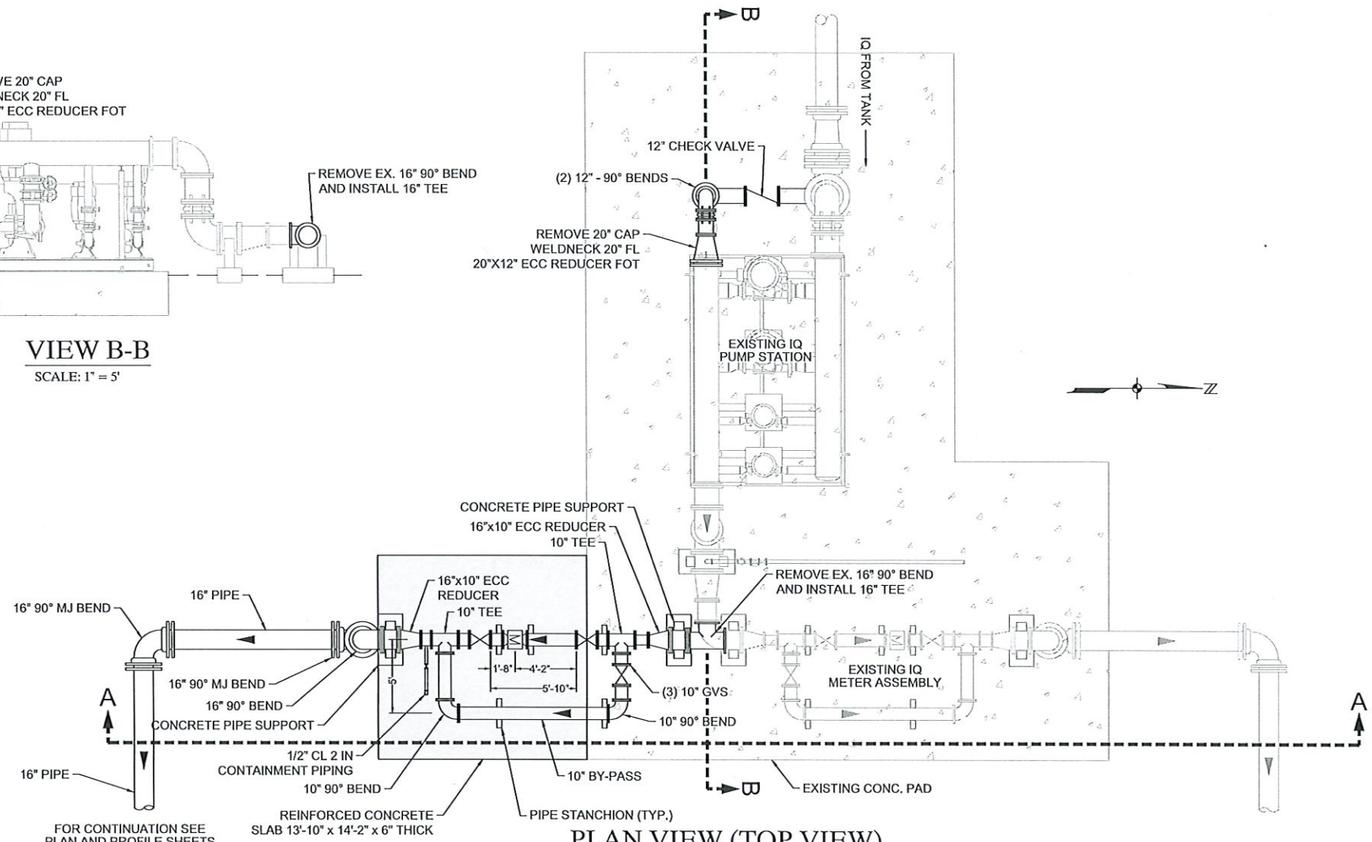


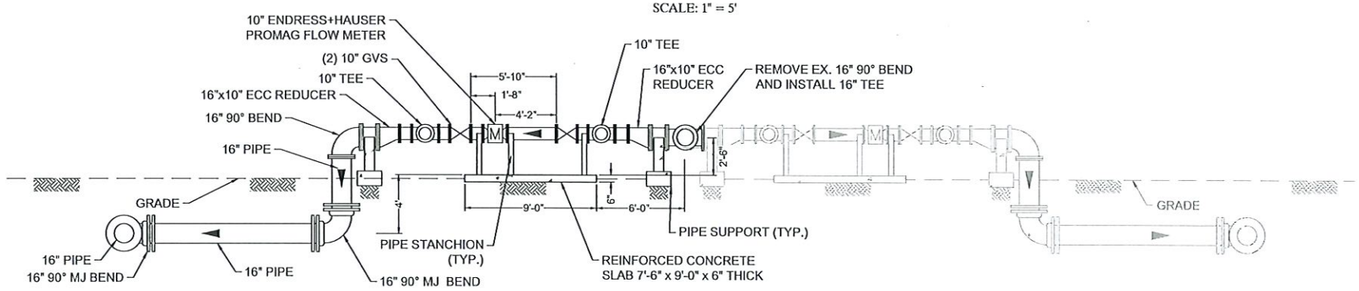
VIEW B-B

SCALE: 1" = 5'



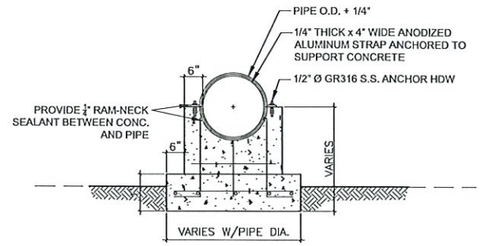
PLAN VIEW (TOP VIEW)

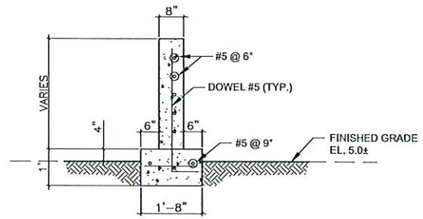
SCALE: 1" = 5'



VIEW A-A

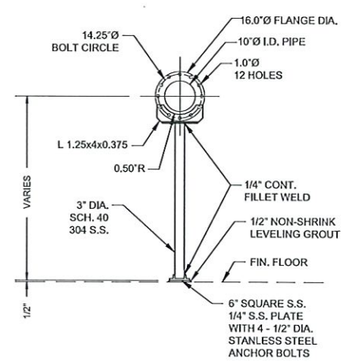
SCALE: 1" = 5'





TYPICAL SECTION
CONCRETE PIPE SUPPORT DETAIL

SCALE: 1/2" = 1'-0"



PIPE STANCHION DETAIL

SCALE: 1/2" = 1'-0"

ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88). CONVERSION FACTOR TO NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD '29) IS (+) 1.257

REV	DATE	BY	DESCRIPTION
1	10/25	RC	BID SET

DESIGNED MNT
DRAWN MNT
CHECKED JRB
DATE NOVEMBER, 2025

JARED ROY BROWN LICENSE NO. 60024 STATE OF FLORIDA PROFESSIONAL ENGINEER

JOHNSON ENGINEERING — An Apex Company —
JOHNSON ENGINEERING, LLC.
2122 JOHNSON STREET
FORT MYERS, FLORIDA 33901
PHONE: (239) 334-0046
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301 North Cattlemen Road, Suite 302
Sarasota, FL 34232
Phone: 941-371-9832
CA No. 00008571

Collier County

COLLIER COUNTY
NORTHEAST WRF/WTP –DIW CONVEYANCE
GENERAL
DETAILS & CROSS SECTION

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 71261.10
DRAWING NO. 00C12
SHEET NO. 19 OF 62

PROJECT NO. 71261.10
FILE NAME: 20203210-001_PP.dwg
LAST SAVED BY: Michael.Tiseo
Plot Date: 11/5/2025 4:32:20 PM

GENERAL NOTES:

1. USE STRUCTURAL DRAWINGS IN CONJUNCTION WITH PROJECT DRAWINGS BY OTHER DISCIPLINES AND WITH THE SPECIFICATIONS.

2. UNLESS DETAILED, SPECIFIED, OR INDICATED OTHERWISE, CONSTRUCTION SHALL BE AS INDICATED IN THE GENERAL NOTES AND TYPICAL DETAILS.

3. PRESENTATION CONVENTIONS FOR STRUCTURAL DRAWINGS:

   A. SCREENED LINE WORK INDICATES EXISTING CONDITIONS.
   B. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED SIZES.
   C. PLANS ARE TREATED AS HORIZONTAL SECTIONS. (I.E.: "PLAN AT ELEVATION 110" SHOWS CONSTRUCTION AT AND BELOW ELEVATION 110.)

4. VERIFY DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK. ADVISE ENGINEER IMMEDIATELY OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND DIMENSIONS, AND INFORMATION SHOWN ON THESE DRAWINGS. CONFIRM THE FOLLOWING BEFORE PREPARATION AND SUBMITTAL OF SHOP DRAWINGS:

   A. DIMENSIONS AND WEIGHTS FOR EQUIPMENT SELECTED.
   B. SIZES AND LOCATIONS OF EQUIPMENT PADS FOR EQUIPMENT SELECTED.

5. TYPICAL DETAILS ARE INCLUDED ON THE "TS" DRAWINGS.

   A. TYPICAL DETAILS ARE INTENDED TO APPLY AT LOCATIONS DESCRIBED BY THEIR TITLES, EVEN WHEN NOT SPECIFICALLY REFERENCED ON THE DRAWINGS.
   B. IN STRUCTURAL TYPICAL DETAILS, ORIENTATION OF BARS IN EACH MAT OF REINFORCEMENT (WHETHER "LINES" OR "DOTS"ARE CLOSER TO THE FACE OF THE CONCRETE) IS GENERALLY ARBITRARY. SEE DRAWINGS OF EACH STRUCTURE FOR ORIENTATION REQUIRED AT THAT STRUCTURE.

6. SEE CIVIL DRAWINGS FOR STRUCTURE COORDINATES. POINTS ON THE STRUCTURES TO WHICH SITE COORDINATES REFER ARE SHOWN ON THE STRUCTURAL PLANS.

7. DRAWINGS PREPARED BY OTHER DISCIPLINES INCLUDE OPENINGS, ANCHORS, PIPES, CONDUITS, AND OTHER ITEMS THAT ARE EMBEDDED INTO OR PASS THROUGH STRUCTURES.

   A. CONFIRM SIZE AND LOCATIONS OF OPENINGS, PENETRATIONS AND EMBEDMENT FOR ITEMS AND EQUIPMENT FURNISHED.
   B. IN GENERAL, OPENINGS, EMBEDMENTS, AND PENETRATIONS LESS THAN 12 INCHES IN DIAMETER ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS.
   C. SEE MECHANICAL DRAWINGS FOR DETAILS OF PIPE PENETRATIONS, PIPE SUPPORTS, AND ASSOCIATED STRUCTURAL REQUIREMENTS.
   D. SEE MECHANICAL DRAWINGS FOR EQUIPMENT PADS AND PIPE SUPPORTS.

STRUCTURAL DESIGN CRITERIA - GENERAL:

SEE DRAWINGS OF INDIVIDUAL STRUCTURES FOR SPECIFIC DESIGN CRITERIA BASED ON THESE OVERALL CRITERIA FOR THE SITE.

1. BUILDING CODE:

   A. 2020 FLORIDA BUILDING CODE ("FBC 2020").
   B. LOCAL AMENDMENTS: COLLIER COUNTY ORDINANCE.

2. STRUCTURE RISK CATEGORY: III.

3. DEAD LOADS: CALCULATED FOR STRUCTURE SELF-WEIGHT.

4. LIVE LOADS: (REDUCTIONS NOT USED)

   A. FLOOR LIVE LOAD: 200 PSF.
   B. GRATING AND CHECKERED PLATE: 100 PSF (UNO).
   C. ROOF LIVE LOAD: SEE PLANS (20 PSF MINIMUM).
   D. EQUIPMENT LOADS: SEE PLANS.
   E. CONCENTRATED AND IMPACT LOADS: SEE PLANS.

5. FLUID PRESSURE LOADS: 63 PSF/FT (UNO).

6. SNOW LOAD DATA: N/A.

7. WIND DESIGN DATA:

   A. SPECIAL WIND REGION: NO
   B. WIND-BORNE DEBRIS REGION: YES
   C. BASIC WIND SPEED (3 SEC GUST, 33 FEET ABOVE GROUND): 168 MPH.

8. EARTHQUAKE DESIGN DATA:

		0.2 SECOND	*1.0 SECOND
A.	SITE CLASS: D.		
B.	MAPPED SPECTRAL RESPONSE ACCELERATIONS:	Ss = 0.047 g	S1 = 0.023 g
C.	SITE COEFFICIENTS:	Fa = 1.6	Fv = 2.4
D.	MAXIMUM CONSIDERED ACCELERATIONS:*	Sms =0.074 g	Sm1 = 0.054 g
E.	DESIGN SPECTRAL RESPONSE ACCELERATIONS:*	Sds = 0.05 g	Sd1 = 0.036 g

   (* 5% DAMPED)

9. FLOOD LOADS:

   A. FLOOD HAZARD AREA: NO
      1) REFERENCE MAP ("FIRM"): 12021C0240H

10. RAIN LOADS:

    A. DESIGN RAINFALL INTENSITY: I = 4.5 INCHES / HOUR. (100 YEAR/1 HOUR EVENT)

11. CONSTRUCTION LOADS:
    STRUCTURES HAVE BEEN DESIGNED FOR OPERATING LOADS ON COMPLETED FACILITIES. UNTIL CONSTRUCTION IS COMPLETE AND MEMBERS HAVE ACHIEVED THEIR DESIGN STRENGTH, PROTECT STRUCTURES AS REQUIRED BY SHORING, BRACING, AND BALANCING.

GEOTECHNICAL REPORT / FOUNDATION DESIGN CRITERIA:

1. FOUNDATION DESIGNS ARE BASED ON RECOMMENDATIONS IN THE FLORIDA BUILDING CODE.

   A. NET ALLOWABLE BEARING PRESSURE: 2000 PSF.

   B. FROST DEPTH: N/A.

   C. LATERAL EARTH PRESSURE (UNO):
   SURCHARGE: EQUIVALENT TO 2 FEET OF SOIL ABOVE FINISHED GRADE.

	STATIC
ACTIVE (PSF/FT):	30
AT REST (PSF/FT):	60
PASSIVE (PSF/FT):	150
SLIDING COEFFICIENT OF FRICTION:	0.25

   D. GROUNDWATER EL 12.0.

TYPICAL STRUCTURAL MATERIALS:

1. MATERIALS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

2. SEE PROJECT SPECIFICATIONS AND NOTES ON DRAWINGS OF SPECIFIC STRUCTURES FOR DETAILED AND LOCATION-SPECIFIC REQUIREMENTS.

REINFORCING STEEL (FOR CONCRETE AND MASONRY):

1. DEFORMED BARS:
   A. TYPICAL: ASTM A 615, GRADE 60.
   B. WHERE INDICATED ON THE DRAWINGS: ASTM A 706.

2. WELDED WIRE FABRIC: ASTM A 1064.

CONCRETE:

1. NORMAL DENSITY.

2. MINIMUM SPECIFIED CONCRETE COMPRESSIVE STRENGTH, f'c (AT 28 DAYS UNO).

   A. STRUCTURES: "CLASS A"OR "CLASS B" f'c = 4500 PSI.
   B. FILL AND THRUST BLOCKS: "CLASS C" f'c = 2500 PSI.
   C. PIPE ENCASEMENT: "CLASS C" f'c = 2500 PSI.
   D. ELECTRICAL DUCT ENCASEMENT: "CLASS CE" f'c = 2500 PSI.

STRUCTURAL STEEL:

1. SECTIONS

   A. SHAPES W, WT: ASTM A 992 (Fy = 50 KSI)
   B. SHAPES S, ST, M, MT, HP, C, MC, L: ASTM A 36 (Fy = 36 KSI)
   C. PLATES AND BARS: ASTM A 36 (Fy = 36 KSI)
   D. PIPES: ASTM A 53, GRADE B (Fy = 35 KSI)
   E. HOLLOW STRUCTURAL SECTIONS:
      ROUND: ASTM A 500, GRADE B (Fy = 42 KSI)
      SQUARE AND RECTANGULAR: ASTM A 500, GRADE B (Fy = 46 KSI)

2. CONNECTIONS:

   A. BOLTS - STEEL TO-STEEL:
      ASTM F 3125 GRADE A325 HIGH-STRENGTH BOLTS, WITH LOAD INDICATOR WASHERS.
   B. BOLTS - STEEL TO CONCRETE OR MASONRY:
      ANCHOR BOLTS WITH HEX FORGED HEAD.
      ASTM F 593, STAINLESS TYPE 316 (304)
      ASTM F 1554, GRADE 36 GALVANIZED.
   C. WELDS - SHIELDED METAL ARC PROCESS USING E70-XX ELECTRODES.

STAINLESS STEEL:

1. ANSI TYPE 316/316L EXCEPT WHERE TYPE 304/304L IS INDICATED ON THE DRAWINGS.

2. SECTIONS: SHAPES AND BARS: ASTM A 276.

3. BOLTED CONNECTIONS - BOLTS AND ANCHOR BOLTS:

   A. MATCH ALLOY OF THE STRUCTURAL MEMBERS CONNECTED.
   B. TYPE 316/316L: ASTM F 593, GRADE B8M, CLASS 1, HEAVY HEX.
   C. TYPE 304/304L: ASTM F 593, GRADE B8, CLASS 1, HEAVY HEX.

4. WELDED CONNECTIONS:

   A. TYPE 316L: E316L-15 ELECTRODES.
   B. TYPE 304L: E304L-15 ELECTRODES.

STRUCTURAL ALUMINUM:

1. SECTIONS

   A. SHAPES: ASTM B 308, ALLOY 6061-T6.
   B. SHEET AND PLATE: ASTM B 209, ALLOY 6061-T6.

2. BOLTED CONNECTIONS - BOLTS AND ANCHOR BOLTS:

   A. STAINLESS STEEL - TYPE 316, ASTM F 593, GRADE B8M, CLASS 1, HEAVY HEX.

3. WELDED CONNECTIONS:

   A. GAS METAL ARC (MIG) OR GAS TUNGSTEN ARC (TIG) PROCESS USING FILLER ALLOY 4043 ELECTRODES.

CONSTRUCTION:

CONFORM TO THE FOLLOWING REQUIREMENTS UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

EXCAVATION AND BACKFILLING:

1. EXPOSE AND PREPARE SUBGRADE AS SHOWN ON THE DRAWINGS AND SPECIFIED. OBTAIN ENGINEER'S OBSERVATION OF SUBGRADE SURFACES, AS EXPOSED AND AS PREPARED, BEFORE PROCEEDING WITH FOUNDATION CONSTRUCTION.

2. DO NOT PLACE BACKFILL AGAINST WALLS UNTIL STRUCTURES SUPPORTING THE TOP OF THE WALL ARE IN PLACE, ARE COMPLETE, AND (IN THE CASE OF CONCRETE) HAVE CURED TO THEIR MINIMUM SPECIFIED 28-DAY COMPRESSIVE STRENGTH.

3. WHERE BACKFILL MUST BE PLACED AGAINST WALLS BEFORE STRUCTURES ABOVE ARE COMPLETE, PROVIDE BRACING FOR WALLS. KEEP BRACING IN PLACE UNTIL THE STRUCTURE ABOVE IS COMPLETE AND (IN THE CASE OF CONCRETE) HAS CURED TO ITS MINIMUM SPECIFIED 28-DAY COMPRESSIVE STRENGTH.

CONCRETE:

1. SEE S101/TYP FOR CONCRETE NOTES, INCLUDING CLEAR COVER AND LAP SPLICE LENGTH REQUIREMENTS FOR REINFORCING.

2. SUBMIT LOCATIONS OF CONSTRUCTION JOINTS NOT SHOWN ON THE DRAWINGS FOR ACCEPTANCE BY THE ENGINEER BEFORE FORM LAYOUT.

3. PROVIDE CHAMFER AT EXPOSED EDGES OF CAST-IN-PLACE CONCRETE. SEE SPECIFICATION (03_30_01) FOR CHAMFERS.

4. PROVIDE REINFORCING:

   A. AT CORNERS AND JUNCTIONS - AS INDICATED IN S144/TYP, SUPPLEMENT WITH ADDED BARS WHERE INDICATED ON THE DRAWINGS.
   B. AT OPENINGS - AS INDICATED IN S180/TYP.

5. WELDING OF REINFORCING IS NOT PERMITTED UNLESS DETAILED ON THE DRAWINGS OR ACCEPTED IN ADVANCE BY THE ENGINEER.

6. MAINTAIN MINIMUM 3 INCHES CLEAR CONCRETE COVER BETWEEN REINFORCING AND EMBEDMENTS.

7. FINISH CONCRETE AS SPECIFIED IN SECTION (03_35_29).

8. CONCRETE PADS

   A. (E) EQUIPMENT PAD SEE S302/TYP.

STEEL, STAINLESS STEEL, AND ALUMINUM - CONNECTIONS:

1. BOLTED:

   A. MADE USING 3/4-INCH DIAMETER BOLTS.
   B. HAVING A MINIMUM OF 2 BOLTS, SPACED NOT CLOSER THAN 3 INCHES ON CENTER.
   C. WITH A DISTANCE OF AT LEAST 1 1/2 INCHES FROM CENTER OF BOLT TO ANY EDGE OF A PLATE OR STRUCTURAL ELEMENT.

2. WELDED:

   A. FILLET WELDS: PER AWS CODE BASED ON THE THICKNESS OF THE MATERIALS BEING JOINED, AND FULL LENGTH OF THE JOINT.

3. INTERFACE BETWEEN MATERIALS:

   A. AT BOLTED CONNECTIONS THAT INCLUDE DIFFERENT METALS (E.G.: STEEL AND STAINLESS STEEL, OR ALUMINUM AND STEEL) PROVIDE ISOLATING SLEEVES AND WASHERS AS SPECIFIED IN SECTION (05_05_24).
   B. WHERE ALUMINUM IS IN CONTACT WITH MASONRY OR CONCRETE, COAT ALUMINUM SURFACES AS SPECIFIED IN SECTION (09_96_01).

4. POST-INSTALLED ANCHORS IN CONCRETE AND MASONRY:

   A. INSTALL IN FULL COMPLIANCE WITH ACCEPTED BUILDING CODE EVALUATION REPORT AND MANUFACTURER'S INSTRUCTIONS.
   B. DO NOT CUT, DAMAGE, OR INTERRUPT EXISTING REINFORCEMENT TO INSTALL ANCHORS. USE NON-DESTRUCTIVE TESTING EQUIPMENT TO IDENTIFY LOCATIONS OF REINFORCEMENT IN MEMBERS BEFORE DRILLING HOLES FOR ANCHORS.

METAL FABRICATIONS:

1. HANDRAILS AND GUARDRAILS:

   A. ALUMINUM, EXCEPT WHERE OTHER MATERIALS ARE NOTED.

2. GRATING:

   A. ALUMINUM WITH TYPE 316 STAINLESS STEEL FASTENERS, UNLESS OTHERWISE NOTED.
   B. GRATING AND ITS SEATS OR SUPPORTS SHALL BE OF THE SAME MATERIAL.
   C. UNLESS INDICATED ON THE DRAWINGS AS "REMOVABLE GRATING", SECURELY FASTEN GRATING TO SUPPORTS AS INDICATED IN S559/TYP.

3. COVER PLATES:

   A. ALUMINUM WITH TYPE 316 STAINLESS STEEL FASTENERS, UNLESS OTHERWISE NOTED.
   B. COVER PLATE AND ITS SEATS OR SUPPORTS SHALL BE OF THE SAME MATERIAL.

SPECIAL INSPECTION:

1. SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING STRUCTURAL MATERIALS AND CONSTRUCTION. SEE SPECIFICATION SECTION (01_45_24) FOR DETAILS.

2. DIVISION (31) SITE CONSTRUCTION (EARTHWORK)

   A. EXCAVATION DEPTH.
   B. ADEQUACY OF EXPOSED SURFACE TO PROVIDE REQUIRED SUPPORT.
   C. PREPARATION OF SOILS/SURFACES SUPPORTING CONSTRUCTION.
   D. FILL AND BACKFILL.

3. DIVISION (03) CONCRETE:

   A. LOCATIONS.
   B. FORMWORK AND MEMBER SIZES.
   C. REINFORCING STEEL.
   D. ANCHORS: CAST-IN AND POST-INSTALLED.
   E. CONCRETE MIX AND PLACEMENT.
   F. PROTECTION AND CURING PROCEDURES.

4. DIVISION (05) METALS

   A. GENERAL ALL METALS:
      1) MEMBER LOCATIONS.
      2) MEMBER SIZES/TYPES.
      3) ANCHORS - CAST-IN AND BUILT-IN ANCHOR BOLTS.
      4) ANCHORS - POST-INSTALLED MECHANICAL AND ADHESIVE.

   B. STRUCTURAL STEEL (CARBON AND STAINLESS).
      1) HIGH-STRENGTH BOLTING.
      2) WELDING.

   C. STRUCTURAL ALUMINUM.
      1) BOLTING.
      2) WELDING.

STRUCTURAL SYMBOLS:

1. SEE DRAWING 00G02 FOR KEY TO DRAWING TITLES AND SECTION CUTS, AND FOR DEFINITION OF MATERIALS SHADING PATTERNS.

2. WELDING: SYMBOLS: IN ACCORDANCE WITH AMERICAN WELDING SOCIETY (AWS) A2.4.

STRUCTURAL ABBREVIATIONS:

1. SEE DRAWING 00G04 FOR GENERAL LIST OF ABBREVIATIONS USED ON DRAWINGS.

2. ABBREVIATIONS FOR NAMES OF TECHNICAL GROUPS MAY BE FOUND IN THE PROJECT SPECIFICATIONS.

3. STRUCTURAL MEMBERS:

   A. STEEL: ABBREVIATIONS AND DESIGNATIONS ARE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION'S STEEL CONSTRUCTION MANUAL, CURRENT EDITION.

   B. ALUMINUM: ABBREVIATIONS AND DESIGNATIONS ARE IN ACCORDANCE WITH THE ALUMINUM ASSOCIATION'S ALUMINUM DESIGN MANUAL, CURRENT EDITION.

4. ABBREVIATIONS FOR STRUCTURAL DRAWINGS:
   WHEN USED ON THE STRUCTURAL DRAWINGS, THE FOLLOWING ABBREVIATIONS HAVE THE MEANINGS LISTED.

REINFORCEMENT:		OTHER:	
BO	BOTTOM OF	L	ANGLE
EF	EACH FACE	PL	PLATE
I.F.	INSIDE FACE		
O.F.	OUTSIDE FACE		
T.O.	TOP OF		
#	NUMBER (REINFORCING BAR SIZE)		

DEFERRED DESIGN SUBMITTALS

AS DEFINED IN THE BUILDING CODE, DEFERRED DESIGN SUBMITTALS ARE PORTIONS OF THE DESIGN THAT ARE NOT SUBMITTED AT THE TIME OF PERMIT APPLICATION, AND THAT ARE TO BE REVIEWED BY THE REGISTERED DESIGN PROFESSIONAL AND SUBSEQUENTLY SUBMITTED TO THE BUILDING OFFICIAL.

DEFERRED DESIGN SUBMITTALS FOR THIS PROJECT INCLUDE:

1. DIVISION 10 SPECIALTIES.

   A. 10_71_18 - SHADE STRUCTURE

REV	DATE	BY	DESCRIPTION
1	10/25	RC	BID SET

DESIGNED DAM
DRAWN KRJ
CHECKED JDS
DATE NOVEMBER 2025

JOEL D. SMASON LICENSE No 56434 STATE OF FLORIDA PROFESSIONAL ENGINEER

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY JOEL D. SMASON ON THE DATE ADJACENT TO THE SEAL ON THE COVER SHEET.
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Collier County

COLLIER COUNTY
NORTHEAST WRF/WTP -DIW CONVEYANCE
GENERAL
STRUCTURAL NOTES

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 7126I.10
DRAWING NO. S01
SHEET NO. 20 OF 62

PROJECT NO. 7126I10 FILE NAME: 7126I1000S01.dgn

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