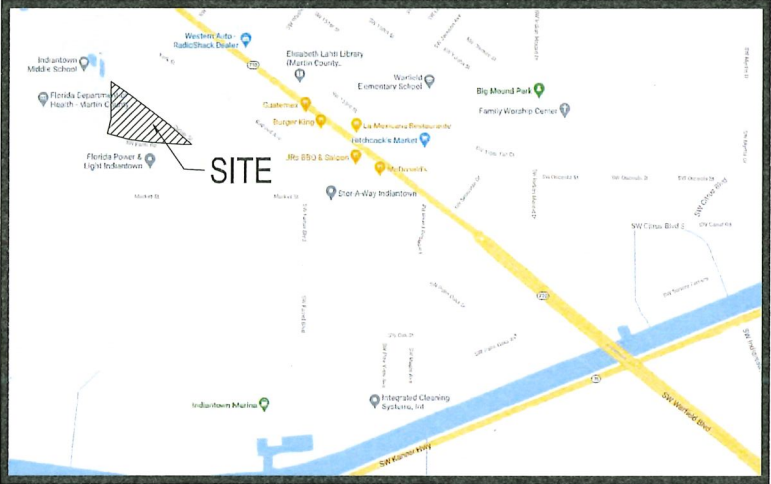


CSV PALM BEACH INC.
INDIANTOWN GO KART TRACK
CIVIL CONSTRUCTION PLANS & SPECIFICATIONS
SECTION 6, TOWNSHIP 40 S, RANGE 39
INDIANTOWN, FLORIDA



LOCATION MAP
N.T.S.



VICINITY \ AERIAL MAP
N.T.S.

LEGAL DESCRIPTION

LOTS 1 THROUGH 8, LESS THE SOUTHEASTERLY 70 FEET OF LOT 8; AND LOTS 10 THROUGH 12, BLOCK 4, UNRECORDED INDIANTOWN INDUSTRIAL PARK, LOCATED IN SECTION 6, TOWNSHIP 40 SOUTH, RANGE 39 EAST, MARTIN COUNTY, FLORIDA, ACCORDING TO THE UNRECORDED PLAT RECORDED IN OFFICIAL RECORD BOOK 332, PAGE 2234, PUBLIC RECORDS OF MARTIN COUNTY, FLORIDA

PLAN FOR
CSV PALM BEACH INC.

ENGINEER & SURVEYOR



ENGINEERING & SURVEYING, LLC.

1449 NW COMMERCE CENTRE DR
PORT ST. LUCIE, FL 34986
PHONE: (772) 879-0477

ENGINEER'S PROJECT NO. 20-1025

INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
COV.	COVER SHEET
01	SITE PLAN
02	PAVING, GRADING & DRAINAGE PLAN
03	PAVING, GRADING & DRAINAGE SECTIONS
04	PAVING, GRADING & DRAINAGE DETAILS
05	WATER & SEWER PLAN
06	WATER & SEWER DETAILS
07	CLEARING & SEDIMENT & EROSION CONTROL PLAN
08	STORMWATER POLLUTION PREVENTION PLAN

REVIEW COMMENTS BY:
THOMAS C. JENSEN, P.E.
VILLAGE ENGINEER
x SAT. 02 : 05
7-11-2025



BY:	DATE:	COMMENT:
JM	12-22-22	REVISIONS PER DRC COMMENTS
JM	05-14-25	REVISIONS PER DRC COMMENTS

PROJECT:
INDIANTOWN
GO KART TRACK
INDIANTOWN, FLORIDA

CLIENT:
CSV
PALM BEACH INC

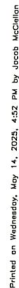
DARREN GUETTLE
LICENSE
NO. 74637
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

DARREN GUETTLE, PE
FLORIDA LICENSE No. 74637
5/14/25

PROJECT No.: 20-1025
DRAWN BY: JM
CHECKED BY: DG
DATE: 5/14/2025
CAD ID: 20 - 1025 COVER

SHEET TITLE:
COVER SHEET

SHEET NUMBER:
COV.

[illegible]

02



(60' R/W) CASTLE ROAD (P)

S 0° 0' 0" E 428.97'

N 89° 14' 32" E 303.80'

S 0° 0' 0" E 287.31'

SW FARM ROAD
(60' R/W 24' ASPHALT)



LEGEND			
	EXISTING GRADE ELEVATION		PROPOSED GRAVITY SEWER MAIN
	EXISTING WATER MAIN		PROPOSED BLDG. SEWER
	EXISTING FORCE MAIN		PROPOSED WATER SERVICE
	EXISTING EDGE OF PAVEMENT		PROPOSED CATCH BASIN
	PROPOSED ASPHALT PAVEMENT		PROPOSED CLEAN OUT
	PROPOSED CONCRETE		RUNOFF FLOW DIRECTION

GENERAL UTILITY CONSTRUCTION NOTES:

- 1.) LOCATION OF UTILITIES AND SERVICE POINTS ARE APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY LOCATION, SIZE, AND DEPTH OF ALL EXISTING UTILITIES.
- 2.) WATER MAIN PRESSURE TESTING: 150 PSI.
- 3.) HYDROSTATIC TESTS CONSISTING OF PRESSURES TEST AND LEAKAGE TEST SHALL BE CONDUCTED ON ALL NEWLY INSTALLED WATER DISTRIBUTION SYSTEM PRESSURE PIPES AND APPURTENANCES. THE TESTS SHALL BE IN ACCORDANCE WITH AWWA C-600 OR M-23 AS APPLICABLE.
- 4.) DISINFECTION OF THE WATER DISTRIBUTION SYSTEM SHALL BE PERFORMED IN ACCORDANCE WITH AWWA C-651, DISINFECTING WATER MAINS.
- 5.) ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE REQUIREMENTS OF MARTIN COUNTY UTILITIES.
- 6.) FOR ITEMS NOT ADDRESSED IN MARTIN COUNTY UTILITY SPECIFICATIONS, FOLLOW FDOT STANDARD SPECIFICATIONS, LATEST EDITION.
- 7.) BACKFLOW PREVENTER SHALL BE REDUCED PRESSURE ZONE UNIT IN ACCORDANCE WITH DEPARTMENT OF ENVIRONMENTAL PROTECTION AND MARTIN COUNTY UTILITIES STANDARDS.
- 8.) SLOPES FOR 4" SEWER SERVICES TO BE MINIMUM 2% AND SLOPES FOR 6" SEWER SERVICES TO BE MINIMUM 1%, UNLESS OTHERWISE SHOWN ON PLAN.
- 9.) SPACE CLEANOUTS NOT MORE THAN 75' APART.
- 10.) CONSTRUCTION CLEANOUTS AT BUILDING WASTE LINE 2' OUTSIDE BUILDING WALL AND COORDINATE WITH MECHANICAL, ELECTRICAL, AND PLUMBING PLANS.
- 11.) POTHOLE TO VERIFY ELEVATION OF EXISTING SEWER.

8" TAP
END W/
B.O.

CONFIRM
CONFLICT
W/ SHAW
8" X 2" SANDP
W/ 2" COP
2" ALV

2" METEOR W/
2" RPZ ASS BLY
CONFIRM
CONFLICT W/ SHAW

WATER DISTRIBUTION NOTES:

1. ALL CONSTRUCTION MATERIAL, INSTALLATION AND TESTING SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE VOUSD.
2. WATER MAIN WHERE SPECIFIED AS POLYVINYL CHLORIDE (PVC), SHALL CONFORM TO AWWA C-900 OR C-905, PRESSURE CLASS 150, DR (18). WATER MAIN WHERE SPECIFIED AS POLYETHYLENE (PE), SHALL CONFORM TO AWWA C-901 OR C-906, STANDARD CODE DESIGNATION FEM408, PIPE CLASS 200, DIMENSION RATIO, DR (9).
3. POLYVINYL CHLORIDE WATER MAIN SHALL BE BLUE IN COLOR.
4. FITTINGS SHALL BE CAST OR DUCTILE IRON, CONFORMING TO AWWA C-110 AND ANSI A21.11, CLASS 250 MINIMUM, CEMENT LINED, AND SEAL COATED.
5. GATE VALVES SHALL BE RESILIENT SEAT TYPE BY AN APPROVED MANUFACTURER AS DETERMINED BY THE VOUSD. VALVES SHALL CONFORM TO AWWA C-508.
6. WATER LINES SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH VOUSD DESIGN AND CONSTRUCTION STANDARDS. THE CONTRACTOR SHALL SUBMIT CERTIFIED DENSITY TESTS AS REQUIRED BY THE VOUSD, AS APPLICABLE. IN CASES WHERE PAVED AREAS FALL WITHIN THE JURISDICTION OF LOCAL OR STATE AGENCIES, THE COMPACTION REQUIREMENTS SHALL NOT BE LESS THAN THE MINIMUM REQUIRED BY THE APPROPRIATE RESPONSIBLE AGENCY.
7. NO FIELD CHANGES OR DEVIATIONS FROM THE DESIGN SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE VOUSD AND THE ENGINEER OF RECORD.
8. THE CONTRACTOR SHALL NOTIFY THE VOUSD AND CITY ENGINEERING 48 HOURS PRIOR TO COMMENCING CONSTRUCTION AND PRIOR TO ALL INSPECTIONS.
9. A PRE-CONSTRUCTION CONFERENCE BETWEEN THE ENGINEER, THE CONTRACTOR, AND VOUSD REPRESENTATIVES SHALL BE MANDATORY PRIOR TO COMMENCEMENT OF CONSTRUCTION.
10. MINIMUM COVER SHALL BE 36 INCHES EXCEPT AS APPROVED BY THE UTILITIES ENGINEER AND VOUSD.
11. DISTURBED AREAS SHALL BE RESTORED IN CONFORMANCE WITH THE APPLICABLE GOVERNING AGENCY REQUIREMENTS.
12. EXISTING UTILITIES AND DRAINAGE SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION AND PROTECTED BY THE CONTRACTOR.
13. WATER MAINS SHALL BE TESTED AND DISINFECTED IN ACCORDANCE WITH THE APPLICABLE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND AWWA C-651 FOR DISINFECTION.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EXISTING UTILITIES AND DRAINAGE.
15. THE CONTRACTOR SHALL FURNISH RECORD DRAWING INFORMATION TO THE ENGINEER INCLUDING LOCATIONS OF VALVES, FITTINGS, SERVICE CONNECTIONS, BLOWOFFS, AIR RELEASE VALVES, AND ANY OTHER PERTINENT INFORMATION NECESSARY TO LOCATE ITEMS CONSTRUCTED UNDER THIS PROJECT, AS REQUIRED BY THE ENGINEER AND VOUSD STANDARDS.
16. THE CONTRACTOR SHALL TAP EXISTING LINES UNDER THE SUPERVISION OF THE VOUSD ONLY AFTER TESTING AND DISINFECTION HAS BEEN COMPLETED AND APPROVED ON THE TAPPING VALVE AND SLEEVE.
17. WATER MAIN SHALL BE MARKED BY THE USE OF CONTINUOUS 14 GAUGE INSULATED SOLID COPPER WIRE (BLUE IN COLOR) AND IDENTIFICATION TAPE WITH "WATER" MARKED ON TAPE, PERMANENTLY ATTACHED TO THE TOP OF THE WATER MAIN IN ACCORDANCE WITH THE VOUSD SPECIFICATIONS.
18. MECHANICAL RESTRAINTS TO BE USED ON ALL FITTINGS AND PLACED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND VOUSD REQUIREMENTS.
19. ALL WATER MAINS SHALL BE TESTED AT A MINIMUM OF 150 PSI. TESTING METHODS SHALL CONFORM TO AWWA C-600 - 2 HR MINIMUM TEST.
20. PRIOR TO ANY TESTING, ALL MAINS 6" IN DIA. AND LARGER SHALL HAVE A LINE SIZE SWAB PASSED THRU THE ENTIRE LENGTH OF THE LINE. NOTE: SWAB SHOULD BE PLACED IN 1ST JOINT OF NEW LINE. END OF MAIN SHOULD BE "TURNED UP" AT 45% AND EXTENDED SO THAT SWABBING AND A FULL BORE FLUSH CAN BE ACCOMPLISHED. BLOWOFF ASSEMBLY CAN THEN BE PLACED. WHERE LINES BRANCH, SWABS WILL BE PLACED IN BRANCH LINES AND SEQUENTIALLY SWABBED AND FLUSHED.
21. CONTRACTOR SHALL COMPLY WITH FLORIDA TRENCH SAFETY ACT REQUIREMENTS.

STANDARD POTABLE WATER SEPARATION STATEMENT:

1. SANITARY SEWERS (INCLUDING LATERALS), FORCE MAINS, GAS MAINS AND STORM SEWERS SHALL CROSS UNDER WATER MAINS. SANITARY SEWERS, FORCE MAINS, GAS MAINS, AND STORM SEWERS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE.
 2. A MINIMUM 10 FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS.
 3. MAXIMUM OBTAINABLE SEPARATION OF RECLAIMED WATER LINES AND DOMESTIC WATER LINES SHALL BE PRACTICED. A MINIMUM HORIZONTAL SEPARATION OF FIVE FEET (CENTER TO CENTER) OR THREE FEET (OUTSIDE TO OUTSIDE), SHALL BE MAINTAINED BETWEEN RECLAIMED WATER LINES AND EITHER POTABLE WATER MAINS OR SEWAGE COLLECTION LINES. A MINIMUM VERTICAL CLEARANCE OF 18 INCHES MUST BE MAINTAINED BETWEEN RECLAIMED WATER LINES AND POTABLE WATER MAINS OR SEWAGE COLLECTION LINES. AT CROSSINGS, PROVISIONS OF FAC RULE 62-604 AND "RECLAIMED STANDARDS FOR WASTEWATER FACILITIES" (10 STATES STANDARDS) LATEST EDITION SHALL APPLY.
 4. HORIZONTAL SEPARATION OF 15 FEET TO BUILDING, TOP OF BANKS OF LAKES AND CANALS AND OTHER STRUCTURES SHALL BE MAINTAINED, IF POSSIBLE, AN ABSOLUTE MINIMUM OF 10 FEET MAY BE ALLOWED ONLY WHEN UNAVOIDABLE.
 5. ALL UTILITY SEPARATIONS & CLEARANCES SHALL BE IN ACCORDANCE WITH VOUSD STANDARD TECHNICAL SPECIFICATIONS, LATEST EDITION.
- HYDROSTATIC AND LEAKAGE TESTING
- A. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT SUCH AS PUMPS, GAUGES AND WATER MEASURING TANKS AND SHALL PERFORM ALL WORK REQUIRED FOR PIPE PRESSURE AND LEAKAGE TEST. HYDROSTATIC AND LEAKAGE TESTS SHALL BE MADE BETWEEN VALVES AND/OR CONNECTORS FOR EACH SECTION TESTED USING THE PROCEDURE OUTLINE IN AWWA C-900.
- B. HYDROSTATIC TESTING SHALL BE PERFORMED AT 150 AND 100 POUNDS PER SQUARE INCH PRESSURE, FOR A PERIOD OF NOT LESS THAN TWO HOURS FOR WATERFORCE MAINS AND LOW PRESSURE MAINS RESPECTIVELY. THE ALLOWABLE RATE OF LEAKAGE SHALL BE LESS THAN THE NUMBER OF GALLONS PER HOUR DETERMINED BY THE FOLLOWING FORMULA:
- $$L = \frac{SD(P)^2}{148,000}$$
- L = ALLOWABLE LEAKAGE IN GALLONS PER HOUR.
S = LENGTH OF PIPE TESTED, FEET.
D = NOMINAL DIAMETER OF THE PIPE IN INCHES.
P = AVERAGE TEST PRESSURE MAINTAINED DURING THE LEAKAGE TEST IN POUNDS PER SQUARE INCH GAUGE.
- C. THE TESTING PROCEDURE SHALL INCLUDE THE CONTINUED APPLICATION OF THE SPECIFIED PRESSURE TO THE TEST SYSTEM FOR THE TWO-HOUR PERIOD BY WAY OF A PUMP TAKING SUPPLY FROM A CONTAINER SUITABLE FOR MEASURING WATER LOSS. THE AMOUNT OF LOSS SHALL BE DETERMINED BY MEASURING THE VOLUME DISPLACED FROM SAID CONTAINER. ANY EXPOSED PIPE, FITTINGS, VALVES, HYDRANTS, AND JOINTS SHALL BE EXAMINED DURING THE TEST. ANY DAMAGED OR DEFECTIVE PIPE FITTINGS, VALVES, OR HYDRANTS THAT ARE DISCOVERED FOLLOWING THE PRESSURE TEST SHALL BE REPAIRED OR REPLACED WITH SOUND MATERIAL, AND ALL TESTS SHALL BE REPEATED.
- D. THE PRESSURE SHALL NOT VARY BY MORE THAN 25 PSI FROM THE REQUIRED PRESSURE FOR THE DURATION OF THE TEST. IF AT ANY POINT DURING THE TEST THE PRESSURE LOSS EXCEEDS 5 PSI, THE TEST IS CONSIDERED FAILED. SHOULD THE TEST FAIL, NECESSARY REPAIRS SHALL BE ACCOMPLISHED BY THE CONTRACTOR AND THE TEST REPEATED UNTIL WITHIN THE ESTABLISHED LIMITS.



REVISIONS:	
BY:	DATE:
JM	12-22-22
JM	05-14-25

REVISIONS PER DRC COMMENTS

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