

COSMIK TIKI

COCOA BEACH, FL

DATE:

JUNE 28, 2023

PREPARED FOR:

AVESTELA LLC

SITE DATA:

1. GENERAL STATEMENT:

THIS PROJECT INCLUDES THE REDEVELOPMENT OF 3 LOTS CONTAINING 2 BUILDINGS LOCATED IN COCOA BEACH FLORIDA. ONE OF THE EXISTING BUILDINGS IS TO BE DEMOLISHED WHILE THE OTHER IS TO BE RE PURPOSED INTO A VIDEO ARCADE. THE PROJECT PROPOSES THE ADDITION OF A PARKING LOT, DUMPSTER, AND A COMMERCIAL POOL. INFRASTRUCTURE IMPROVEMENTS CONSIST OF A DRY RETENTION POND WITH CORRESPONDING APPURTENANCES, AND THE REPLACEMENT OF THE SEWER MAIN.

2. CONTACT INFORMATION:

OWNER:
AVESTELA LLC
1214 SAMAR RD
COCOA BEACH, FL 32931
TEL: (540) 230-9855
EMAIL: NOEL@COSMIKTIKI.COM

CIVIL ENGINEER:
CONSTRUCTION ENGINEERING GROUP, LLC
JAKE T. WISE, PE
2651 W. EAU GALLIE BOULEVARD, SUITE A
MELBOURNE, FL 32935
TEL: (321) 610-1760
EMAIL: JWIS@CEENGINEERING.COM

SURVEYOR:
ERIC NIELSON LAND SURVEYING, INC.
12 STONE STREET
COCOA, FL 32922
TEL: (321) 631-5654

LOCATION:
TOWNSHIP: 25S
RANGE: 37E
SECTION: 11
PARCEL ID: 25-37-11-DD-B-10
TAX ACCOUNT NUMBER: 2517617

3. SITE CHARACTERISTICS:

TOTAL ACREAGE: 0.367
ZONING CLASSIFICATIONS: TOWNCENTER
FUTURE LAND USE: REDEVELOPMENT
FLOOD ZONE: X

BUILDING HEIGHT:
MAX. PERMITTED = 45'
BUILDING HEIGHT = 14'

CALCULATED LOT COVERAGES	SF	ACRES	PERCENT
EXISTING IMPERVIOUS (BUILDING):	3,920	0.09	24%
PROPOSED IMPERVIOUS (ASPHALT/CONCRETE):	9,148	0.21	57%
TOTAL PROPOSED IMPERVIOUS AREA:	13,068	0.30	81%
PROPOSED PERVIOUS:	3,049	0.07	19%
TOTAL GROSS AREA:	16,117	0.37	100%

SETBACKS:	REQUIRED	EXISTING
FRONT:	10'	4.71'
SIDE CORNER:	5'	18.15'
SIDE INTERIOR:	5'	99.97'
REAR:	10'	19.59'

4. PARKING SPACE CALCULATIONS:

TOTAL SPACES:
9 SPACES PROVIDED INCLUDING 1 HANDICAP SPACE

5. FIRE FLOW CALCULATIONS:

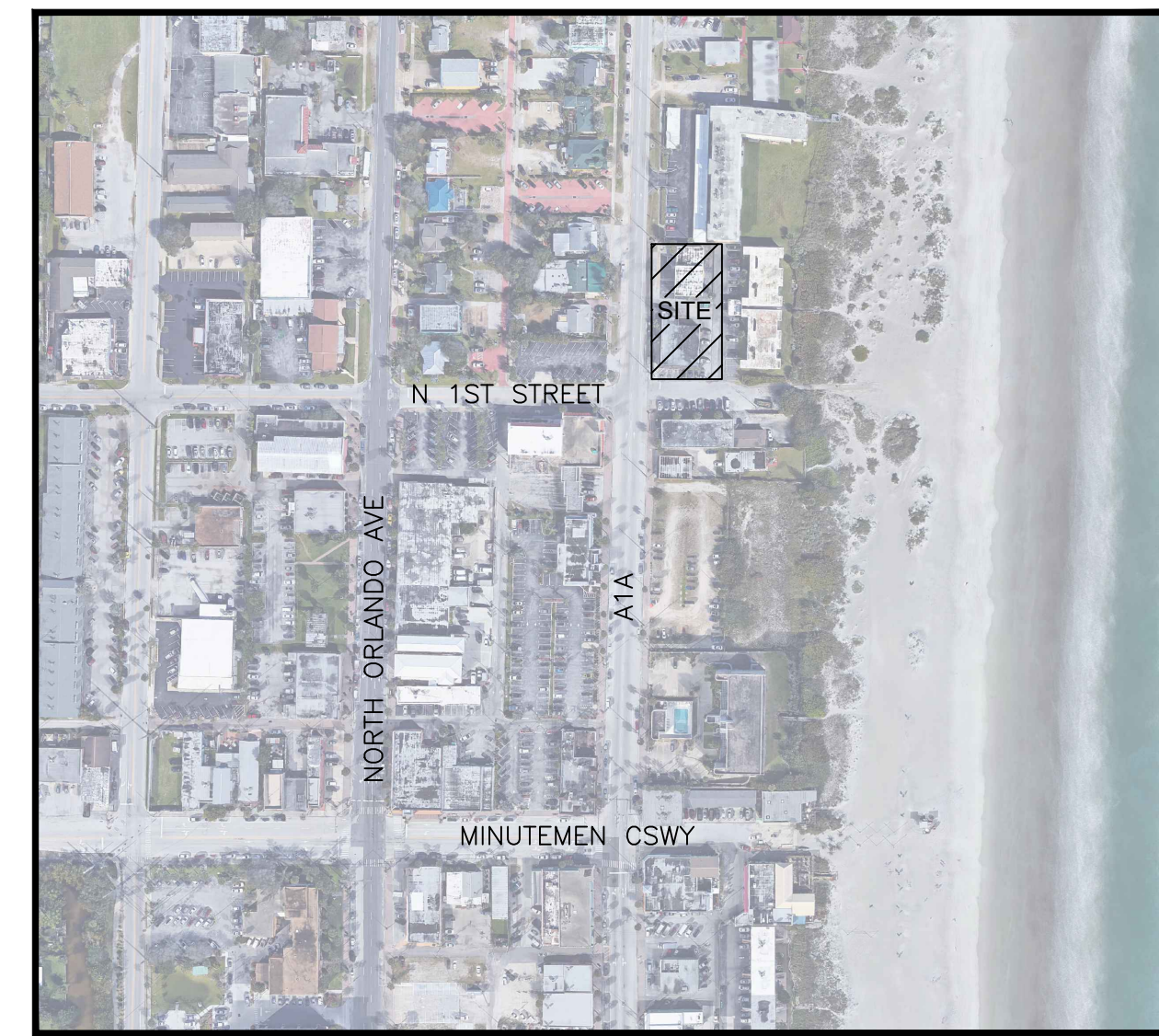
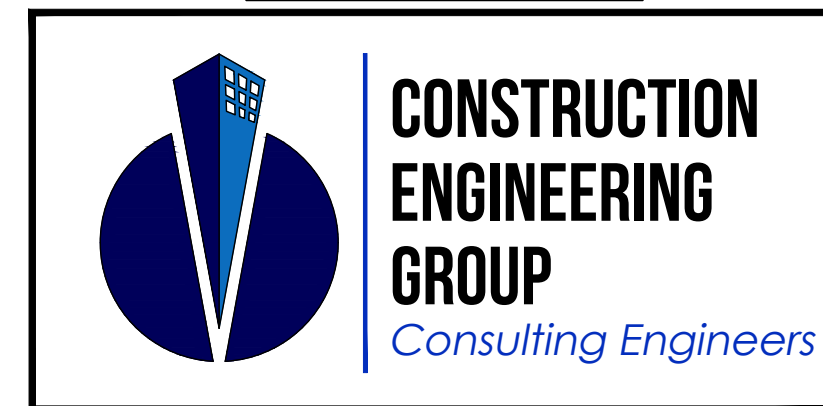
CONSTRUCTION TYPE: 5B
BUILDING AREA: 3,800 SF
BASE MINIMUM FIRE FLOW (TABLE 18.4.5.1.2): 1750 GPM
TOTAL EXPOSURE INCREASE: BASE GPM X PERCENT INCREASE = 0 GPM
INITIAL FIRE FLOW: BASE GPM + EXPOSURE INCREASE = 1750 GPM
FIRE SPRINKLER DECREASE: (REDUCE INITIAL FIRE FLOW MAX 75% IF SPRINKLED)

TOTAL MINIMUM FIRE FLOW: 1,750 GPM (MINIMUM REQUIRED FIRE FLOW IS 1,000 GPM)

DURATION REQUIREMENTS: 2 HOURS (FROM TABLE)

NUMBER OF HYDRANTS REQUIRED: 2
NUMBER OF EXISTING HYDRANTS: 2
NUMBER OF NEW HYDRANTS: 0

PREPARED BY:



LOCATION MAP
NTS

LEGAL DESCRIPTION:

THE WEST EIGHTY FEET OF LOTS 11 AND 12 AND THE WEST EIGHTY FEET OF THE SOUTH TWENTY FEET OF LOT 10, BLOCK B, COCOA BEACH, A SUBDIVISION, ACCORDING TO THE MAP OR PLAT THEREOF, AS RECORDED IN PLAT BOOK 3, PAGE 54, OF THE PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA.

TOGETHER WITH:

THE WEST 80 FEET OF LOT 9, BLOCK B, AND THE WEST 80 FEET OF THE NORTH 30 FEET OF LOT 10, BLOCK B, COCOA BEACH, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 3, PAGE 54, PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA.

CIVIL INDEX OF DRAWINGS:

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CIVIL LEGEND:

DESCRIPTION	
BUILDING OR STRUCTURE	[Symbol]
CONCRETE SIDEWALK	[Symbol]
CONCRETE HEAVY DUTY	[Symbol]
ASPHALTIC PAVEMENT HEAVY	[Symbol]
ASPHALTIC PAVEMENT	[Symbol]
DEMOLITION	[Symbol]
PROJECT BOUNDARY	[Symbol]
SWALE POND	[Symbol]
6' FENCE WITH GATE	[Symbol]
4' FENCE	[Symbol]
SILT FENCE	[Symbol]
SANITARY SEWER LINE WITH MANHOLE	[Symbol]
STORM DRAIN WITH INLET	[Symbol]
SPOT ELEVATION	[Symbol]
SWALE OR FLOW DIRECTION	[Symbol]
RETAINING WALL	[Symbol]

PERMITS:

CITY OF COCOA BEACH (SITE PLAN)
SAINT JOHNS RIVER WATER MANAGEMENT DISTRICT (10-2)
COASTAL CONSTRUCTION CONTROL LINE (MAJOR)
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (SEWER)
FLORIDA DEPARTMENT OF TRANSPORTATION (DRAINAGE)
FLORIDA DEPARTMENT OF TRANSPORTATION (DRIVEWAY)
FLORIDA DEPARTMENT OF TRANSPORTATION (UTILITY)

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JAKE T. WISE ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

REV#	DATE	REVISION
1	7/31/23	CITY/FOOT COMMENTS

2651 Eau Gallie Blvd, Suite A
Melbourne, FL 32935
Tel: 321.253.1221
www.ceengineering.com
COA #000097

CONSTRUCTION ENGINEERING GROUP
Consulting Engineers

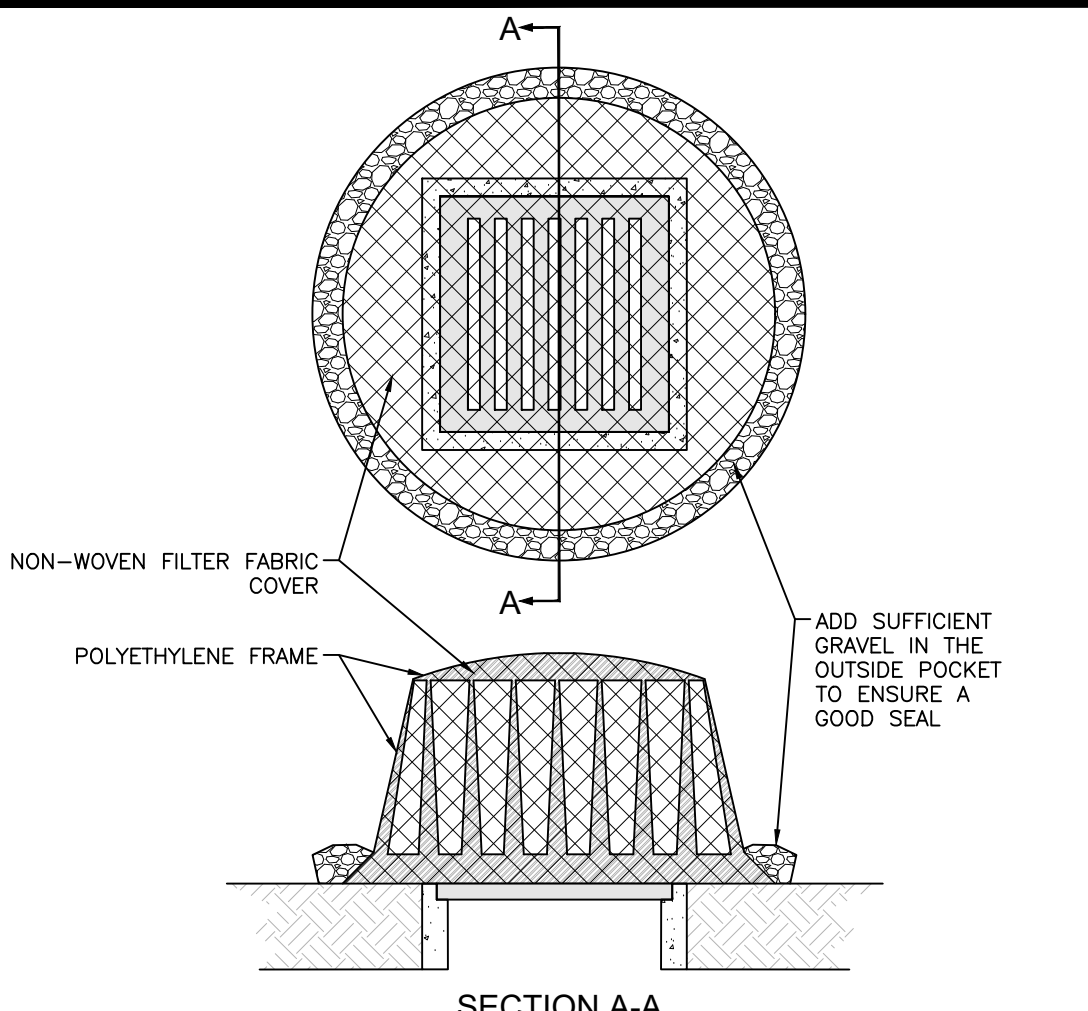
COSMIK TIKI

AVESTELA LLC
101 N. ATLANTIC AVE, COCOA BEACH, FL 32931

DRAWING TITLE
CIVIL COVER SHEET

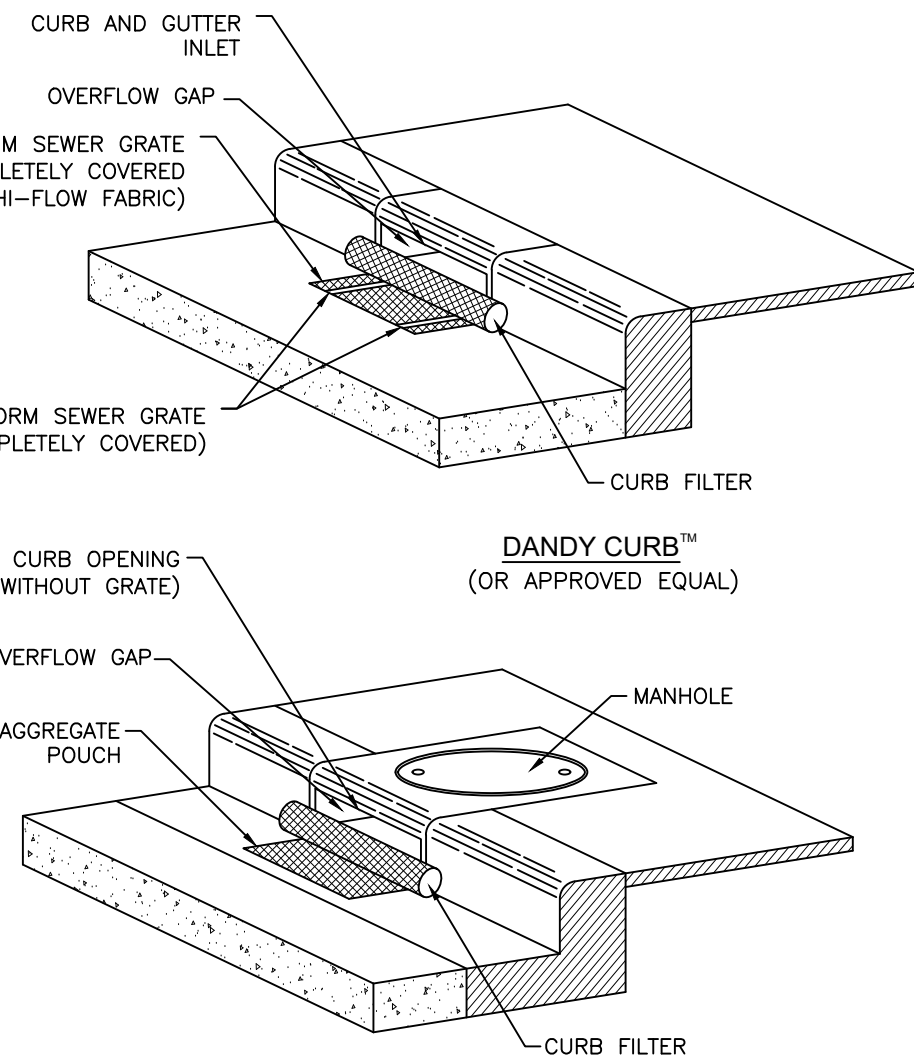
STATE OF FLORIDA
PROFESSIONAL ENGINEER
JAKE T. WISE, PE
No. 55405
9/26/23

DATE	06/28/23
SCALE	NTS
PROJ. NO.:	230012
DESIGNED BY:	LDS
DRAWN BY:	WGM
CHECKED BY:	JTW
DRAWING NO.	G-1



- NOTES:**
1. THESE BARRIERS ARE TO BE INSTALLED IN "SUMP" CONDITIONS ONLY. IF PLACED IN FRONT OF INLETS ON A GRADE, RUNOFF WILL BE DIVERTED TO DOWNSTREAM LOCATIONS AND COULD CAUSE FLOODING.
 2. IT IS CRITICAL THAT A GOOD SEAL EXIST BETWEEN THE GROUND AND FABRIC MATERIAL USING ADEQUATE AMOUNTS OF GRAVEL.
 3. MULTIPLE TYPES OF FILTER MEDIA ARE AVAILABLE FOR THIS SYSTEM. THE CORRECT TYPE OF FILTER FABRIC SHOULD BE CHOSEN THAT CONSIDERS BOTH SAFETY AND ENVIRONMENTAL CONCERNS.
 4. FOR MAINTENANCE, REPAIR AND REPLACE GRAVEL AROUND THE UNIT AFTER EACH DAY A RAIN EVENT OCCURS.
 5. INSPECT THE FABRIC MATERIAL DAILY AND REPLACE IT WHEN SEDIMENT BUILDS UP OR OTHERWISE LOSES POROSITY.

TYPICAL FRAME AND FILTER BARRIER FOR AREA DRAINS DETAIL



CURB INLET SEDIMENT CONTROL

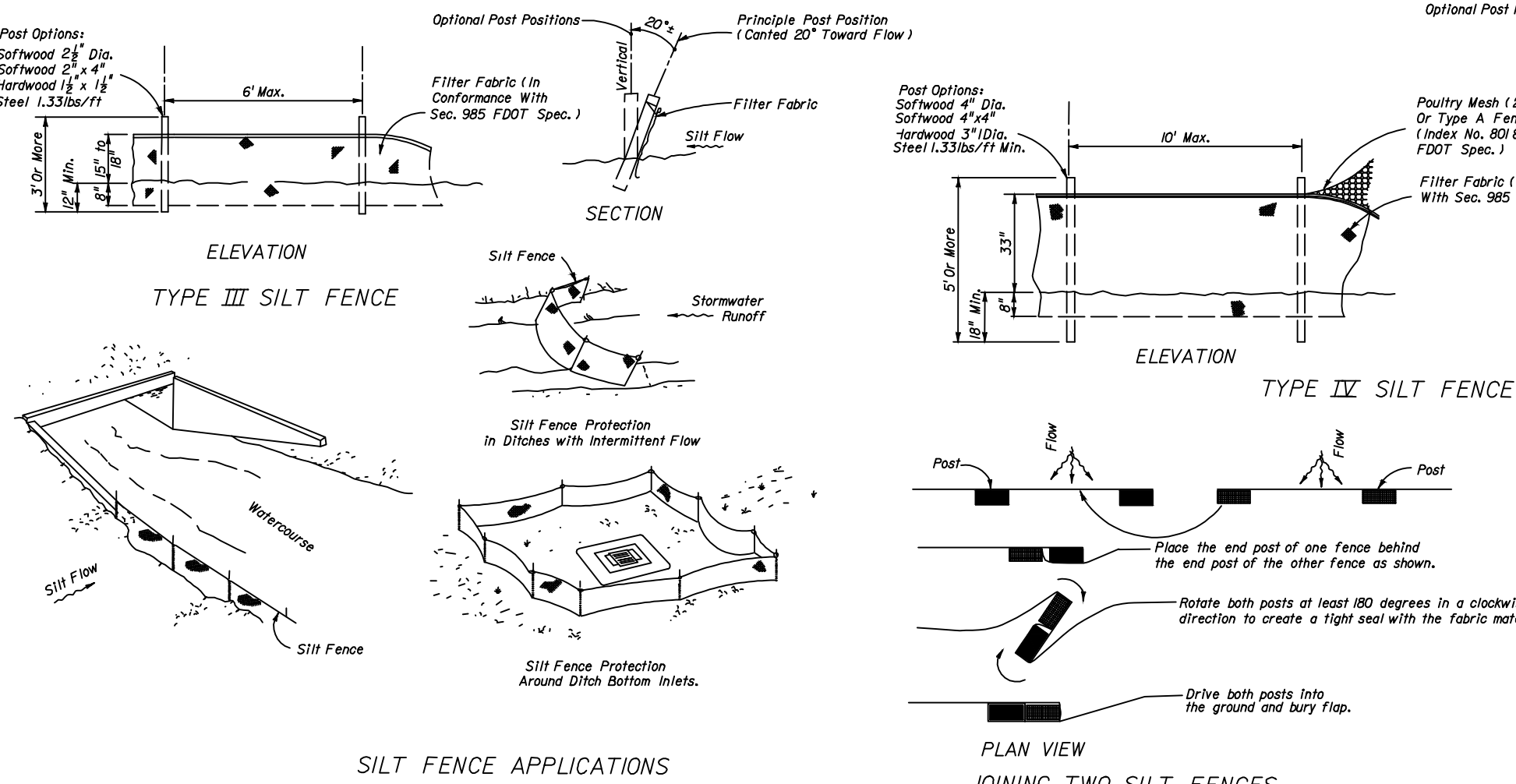
NTS

EROSION AND SEDIMENTATION CONTROL REQUIREMENTS

1. THE LAND-DISTURBING ACTIVITY SHALL CONFORM TO EXISTING TOPOGRAPHY AND SOIL TYPE SO AS TO CREATE THE LOWEST PRACTICAL EROSION POTENTIAL.
2. LAND-DISTURBING ACTIVITIES SHALL BE CONDUCTED IN A MANNER MINIMIZING EROSION.
3. THE DISTURBED AREA AND THE DURATION OF EXPOSURE TO EROSION ELEMENTS SHALL BE KEPT TO A PRACTICABLE MINIMUM.
4. EROSION CONTROL MUST BE STRICTLY MAINTAINED DURING CUT AND FILL OPERATIONS.
5. DISTURBED SOIL SHALL BE STABILIZED AS QUICKLY AS PRACTICABLE.
6. WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED, PROTECTED AND SUPPLEMENTED.
7. TEMPORARY VEGETATION OR MULCHING SHALL BE EMPLOYED TO PROTECT EXPOSED CRITICAL AREAS DURING DEVELOPMENT.
8. PERMANENT VEGETATION AND STRUCTURAL EROSION CONTROL MEASURES SHALL BE INSTALLED AS SOON AS PRACTICABLE.
9. ADEQUATE PROVISIONS MUST BE PROVIDED TO MINIMIZE DAMAGE FROM SURFACE WATER TO THE CUT FACE OF EXCAVATIONS OR THE SLOPING SURFACE OF FILLS.
10. TO THE EXTENT NECESSARY, SEDIMENT IN RUNOFF WATER MUST BE TRAPPED BY THE USE OF DEBRIS BASINS, SEDIMENT BASINS, SILT TRAPS OR SIMILAR MEASURES UNTIL THE DISTURBED AREA IS STABILIZED. TURBID WATER SHALL NOT DISCHARGE FROM THE SITE.
11. CUTS AND FILLS MUST BE CONSTRUCTED IN SUCH A MANNER THAT EROSION AND RUNOFF FROM THE SITE DOES NOT ENDANGER ADJOINING PROPERTY.
12. FILLS MAY NOT ENCROUGH UPON NATURAL WATERCOURSES OR CONSTRUCTED CHANNELS IN A MANNER SO AS TO ADVERSELY AFFECT OTHER PROPERTY OWNERS WITHOUT ADEQUATE PROVISIONS FOR AN EQUIVALENT ALTERNATE SYSTEM WITH A POSITIVE OUTFALL.
13. ALL R.O.W.'S, WATERWAYS, STREETS AND SIDEWALKS SHALL BE BUFFERED BY A TWENTY (20) FOOT WIDE STRIP OF GRASS OR OTHER SUITABLE MEANS.
14. GRADING EQUIPMENT MUST CROSS FLOWING STREAMS BY MEANS OF BRIDGES OR CULVERTS EXCEPT WHEN SUCH METHODS ARE NOT FEASIBLE AND PROVIDED IN ANY CASE, THAT SUCH CROSSINGS ARE KEPT TO A MINIMUM AND SEDIMENTATION CONTROL DEVICES ARE PROVIDED.

DEWATERING PLAN:

1. NO DEWATERING ANTICIPATED.
2. FINAL GRADE AND SOD ENTIRE BANKS OF DRY RETENTION PONDS IMMEDIATELY. STAKE SOD IN AREAS WASHOUTS OCCUR, WATER SOD AS NEEDED TO MAINTAIN HEALTH OF SOD. INSTALL SILT SCREEN FENCE AROUND PONDS AFTER SODDING. CONSTRUCT OVERFLOW STRUCTURES AND ALL PIPING BETWEEN RETENTION PONDS UPON FINAL GRADING. INSTALL SKIMMERS AND UTILIZE TURBIDITY BARRIERS AROUND POND TO PREVENT SILTATION OF PIPING/STRUCTURES.
4. ALL OF THIS WORK SHALL BE COMPLETED PER WATER MANAGEMENT DISTRICT OR FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND LOCAL MUNICIPALITY OR COUNTY REQUIREMENTS.
5. INSPECT AND REPAIR ANY INLETS, SILT FENCES, AND TURBIDITY BARRIERS AFTER EACH RAIN EVENT DURING CONSTRUCTION.



NOTES FOR SILT FENCES

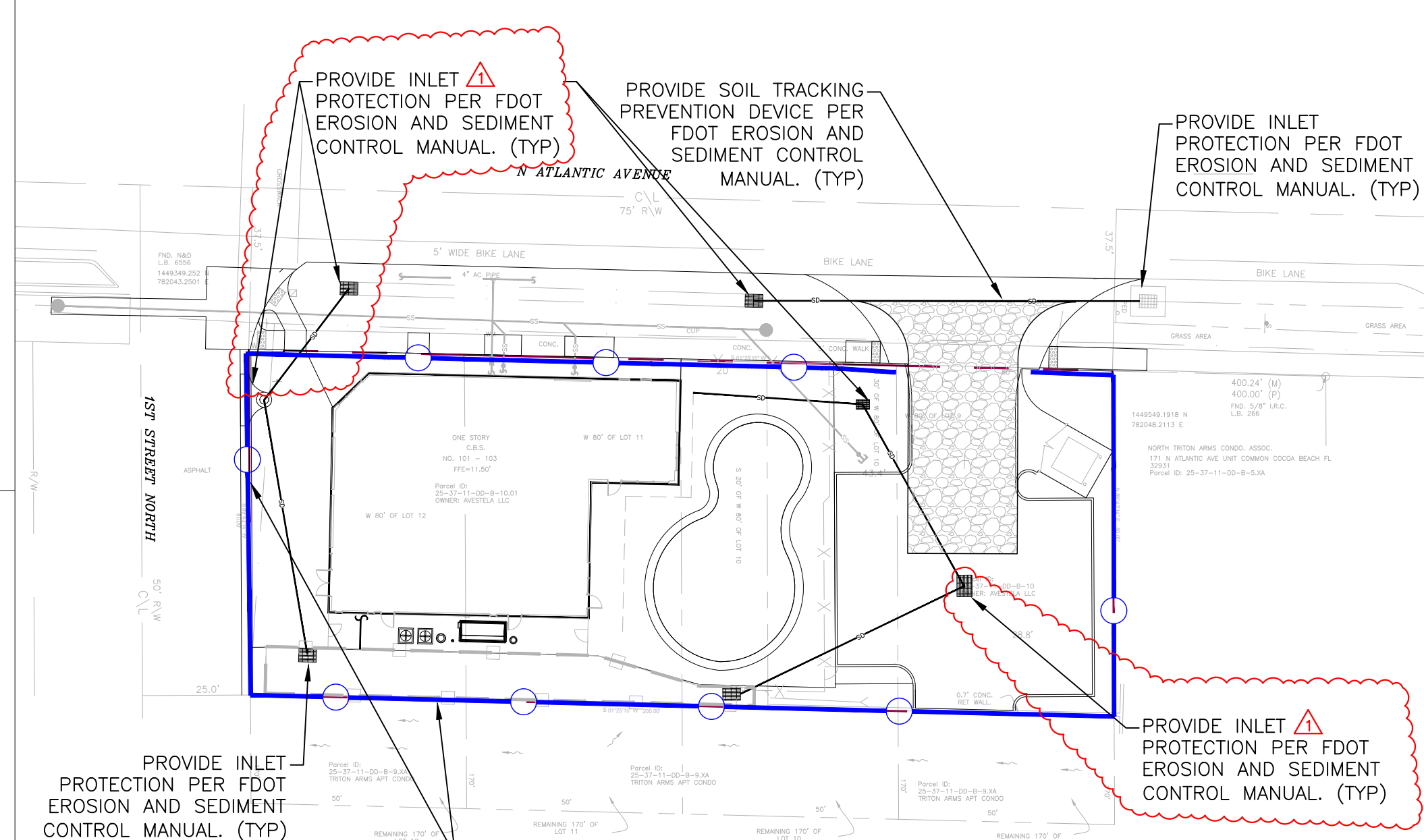
1. TYPE III SILT FENCE TO BE USED AT MOST LOCATIONS, WHERE USED IN DITCHES, THE SPACING FOR TYPE III SILT FENCE SHALL BE IN ACCORDANCE WITH CHART 1, SHEET 1.
2. TYPE IV SILT FENCE TO BE USED WHERE LARGE SEDIMENT LOADS ARE ANTICIPATED. SUGGESTED USE IS WHERE FILL SLOPE IS 1:2 OR STEEPER AND LENGTH OF SLOPE EXCEEDS 25 FEET. AVOID USE WHERE THE DETAINED WATER MAY BACK INTO TRAVEL LANES OR OFF THE RIGHT OF WAY.
3. DO NOT CONSTRUCT SILT FENCES ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.
4. WHERE USED AS SLOPE PROTECTION, SILT FENCE IS TO BE CONSTRUCTED ON 0% LONGITUDINAL GRADE TO AVOID CHANNELIZING RUNOFF ALONG THE LENGTH OF THE FENCE.
5. SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE, (LF).

TYPICAL FDOT SILT FENCE DETAIL

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DEWATERING SPECIFICATIONS:

1. MAINTAIN ADEQUATE SUPERVISION AND CONTROL TO ENSURE THAT STABILITY OF EXCAVATED AND CONSTRUCTED SLOPES ARE NOT ADVERSELY AFFECTED BY WATER. EROSION IS CONTROLLED, AND FLOODING OF EXCAVATION OR DAMAGE TO STRUCTURES DOES NOT OCCUR.
2. THE DEWATERING PLAN SHALL COMPLY WITH THE REQUIREMENTS OF THE WATER MANAGEMENT DISTRICT AND FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION FOR CONSUMPTIVE USE OF GROUNDWATER. PERMITTING, IF REQUIRED, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. PROVIDE AN ADEQUATE SYSTEM TO LOWER AND CONTROL GROUNDWATER IN ORDER TO PERMIT EXCAVATION, CONSTRUCTION OF STRUCTURES, AND PLACEMENT OF FILL MATERIALS UNDER DRY CONDITIONS. INSTALL SUITABLE DEWATERING EQUIPMENT TO DRAIN WATER-BEARING STRATA ABOVE AND BELOW BOTTOM OF STRUCTURE FOUNDATIONS, DRAINS, SEWERS, AND OTHER EXCAVATIONS.
4. REDUCE HYDROSTATIC HEAD IN WATER-BEARING STRATA BELOW STRUCTURE FOUNDATIONS, DRAINS, SEWERS AND OTHER EXCAVATIONS TO EXTENT THAT WATER LEVEL AND PIEZOMETRIC WATER LEVELS IN CONSTRUCTION AREAS ARE BELOW PREVAILING EXCAVATION SURFACE.
5. PRIOR TO EXCAVATION BELOW GROUNDWATER LEVEL, PLACE SYSTEM INTO OPERATION TO LOWER WATER LEVELS AS REQUIRED AND THEN OPERATE IT CONTINUOUSLY 24 HOURS A DAY, 7 DAYS A WEEK UNTIL DRAINS, SEWERS AND STRUCTURES HAVE BEEN CONSTRUCTED, INCLUDING PLACEMENT OF FILL MATERIALS, AND UNTIL DEWATERING IS NO LONGER REQUIRED.
6. DISPOSE OF WATER REMOVED FROM EXCAVATIONS IN A MANNER TO AVOID ENDANGERING PUBLIC HEALTH, PROPERTY, AND PORTIONS OF WORK UNDER CONSTRUCTION OR COMPLETED. DISPOSE OF WATER IN A MANNER TO AVOID RESPONSIBILITY TO OTHERS. PROVIDE SUMPS, SEDIMENTATION MEASURES, OTHER FLOW CONTROL DEVICES AS REQUIRED BY GOVERNING AUTHORITIES. TURBID WATER SHALL NOT DISCHARGE FROM THE SITE.
7. PROVIDE STANDBY EQUIPMENT ON SITE, INSTALLED AND AVAILABLE, FOR IMMEDIATE OPERATION IF REQUIRED TO MAINTAIN DEWATERING ON A CONTINUOUS BASIS IN EVENT ANY PART OF SYSTEM BECOMES INADEQUATE OR FAILS. IF DEWATERING REQUIREMENTS DUE TO INADEQUACY OR FAILURE OF DEWATERING SYSTEM, PERFORM SUCH WORK AS MAY BE REQUIRED TO RESTORE DAMAGED STRUCTURES AND FOUNDATION SOILS AT NO ADDITIONAL EXPENSE.



CONTRACTOR SIGN-OFF / ACKNOWLEDGEMENT:

TO THE BEST OF MY KNOWLEDGE, I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS MANAGING THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINES AND IMPRISONMENT FOR KNOWING VIOLATIONS.

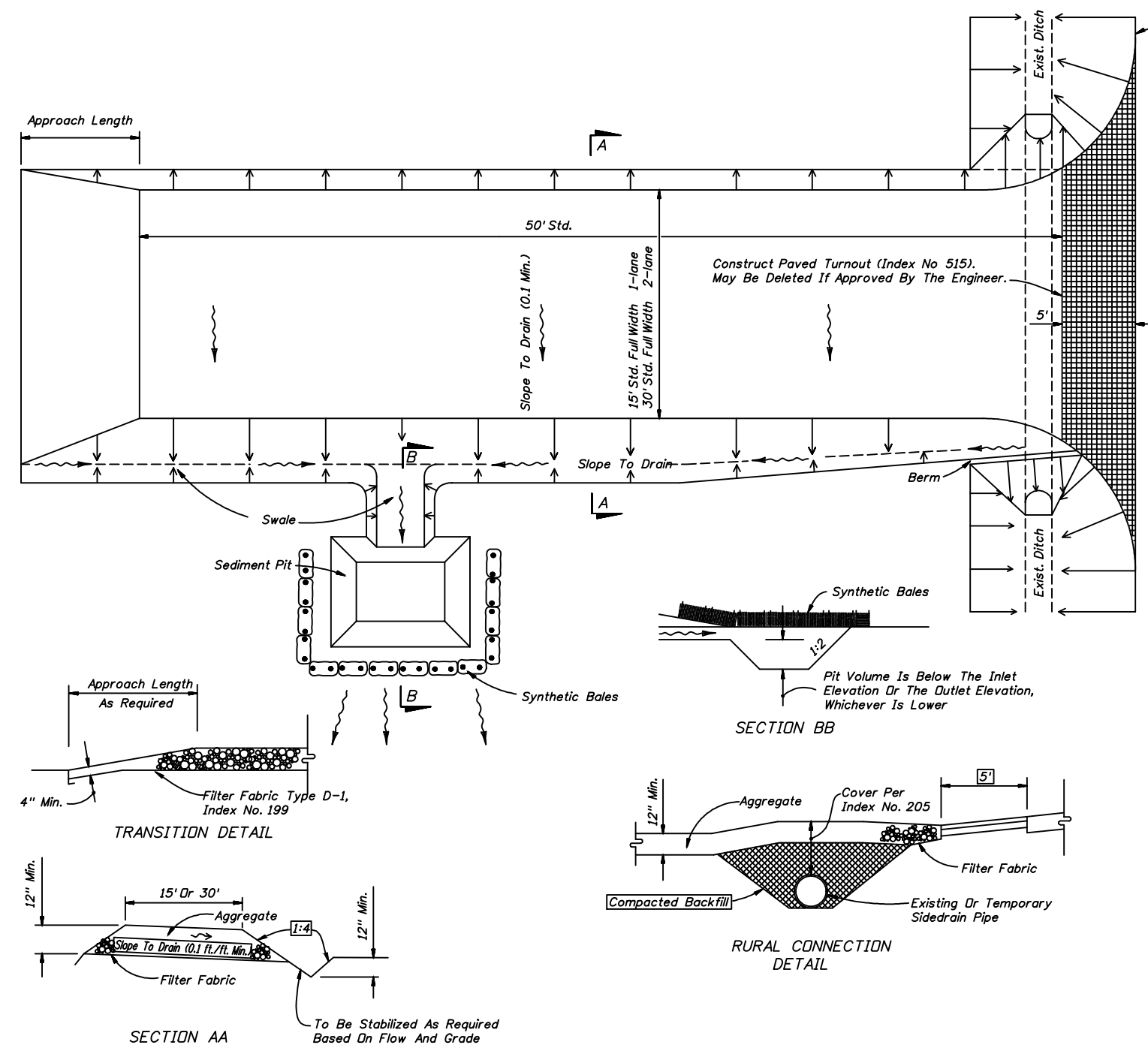
OWNER: _____ TITLE: _____ DATE: _____
 NAME: _____
 SIGNATURE: _____

CONTRACTOR'S CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM THE SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

SIGNATURE	COMPANY NAME AND ADDRESS	RESPONSIBLE FOR
SIGNATURE: _____ NAME: _____ DATE: _____	COMPANY: _____ ADDRESS: _____ PHONE: _____	GENERAL CONTRACTOR
SIGNATURE: _____ NAME: _____ DATE: _____	COMPANY: _____ ADDRESS: _____ PHONE: _____	TEMPORARY AND PERMANENT STABILIZATION
SIGNATURE: _____ NAME: _____ DATE: _____	COMPANY: _____ ADDRESS: _____ PHONE: _____	STABILIZED CONSTRUCTION ENTRANCE, EARTH DIKES, SEDIMENT BASIN

NOTE: CONTRACTOR SHALL PROVIDE ESTIMATED START DATE, COMPLETION DATE AND STABILIZATION SCHEDULE PRIOR TO EXECUTION OF STORMWATER POLLUTION PREVENTION PLAN AND SITE WORK COMMENCEMENT.



SOIL TRACKING PREVENTION DEVICE

NTS

CONTRACTOR RESPONSIBILITIES FOR NPDES (SWPPP)

1. GENERAL NOTES:
 A. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS HEREIN AND ALL WATER MANAGEMENT DISTRICT, FDEP, EPA, CORPS OF ENGINEERS, AND MUNICIPALITY/COUNTY WITH JURISDICTION REQUIREMENTS.
 B. CONTRACTOR SHALL MAINTAIN A RECORD OF CONSTRUCTION WORK AND PROVIDE INSPECTION REPORTS WITH THE FOLLOWING DATA:
 1) DATES WHEN SITE WORK BEGINS, EROSION CONTROL MEASURES ARE INSTALLED, GRADING WORK BEGINS, STORMWATER FACILITIES ARE CONSTRUCTED, AND FINAL STABILIZATION IS COMPLETE.
 2) REPORT INSPECTOR'S NAME, QUALIFICATIONS, DAILY RAINFALL, ANY CHANGES NECESSARY TO SWPPP AND DATES OF INSPECTIONS.
 3) PICTURES OF ANY PROBLEM AREAS THAT OCCUR INCLUDING DATE AND TIME, AND PICTURES OF SAME AREA REPAIRED INCLUDING DATE AND TIME.
 C. PRIOR TO FINAL PAYMENT, CONTRACTOR SHALL PROVIDE A COPY OF THE REPORT TO THE OWNER AND CIVIL ENGINEER CERTIFYING THE PROJECT. CONTRACTOR SHALL EXECUTE NPDES CERTIFICATION FORM AND PROVIDE COPIES TO OWNER AND ENGINEER.
 2. SITE DESCRIPTION:
 A. DESCRIPTION OF THE INTENDED SEQUENCE OF MAJOR ACTIVITIES WHICH DISTURB SOILS FOR MAJOR PORTIONS OF THE SITE.
 B. ESTIMATE OF THE TOTAL AREA OF THE SITE AND THE TOTAL AREA EXPECTED TO BE DISTURBED BY EXCAVATION, GRADING, OR OTHER ACTIVITIES.
 C. AN ESTIMATE OF RUNOFF COEFFICIENT OF THE SITE BEFORE, DURING, AND AFTER CONSTRUCTION USING "C" FROM THE RATIONAL METHOD. "C" CAN BE APPROXIMATED AS 0.15 (BEFORE) AND 0.60 (AFTER), FROM TABLE 2.1 "TYPICAL 'C' VALUES".
 D. THE EXISTING DATA DESCRIBING EXISTING CONDITIONS OF SOIL OR THE QUALITY OF ANY DISCHARGE FROM THE SITE, POMELLO SAND, IMMOKALEE SAND AS CLASSIFIED BY THE SOIL CONSERVATION SERVICE HANDBOOK.
 E. OFF-SITE OVERFLOW RECEIVING BODY: INDIAN RIVER.
 3. CONTROLS:
 THIS SECTION PROVIDES A DESCRIPTION OF APPROPRIATE CONTROLS AND MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE.
 A. EROSION AND SEDIMENT CONTROLS:
 1) STABILIZATION OF EXCAVATED MATERIALS WILL BE STOCKPILED FOR USE AS A BACKFILL AND STABILIZING MATERIAL. UNSUITABLE MATERIALS WILL BE PROMPTLY REMOVED FROM THE SITE AND LEGALLY DISPOSED OF.
 2) STRUCTURAL PROTECTIVE: THE CONTRACTOR SHALL INSTALL AND MAINTAIN WATER QUALITY CONTROL DEVICES AT ALL NEARBY STORMWATER MANAGEMENT PONDS, DITCHES, AND SWALES. INCLUDED IN THE PLANS ARE SILTATION FENCES AND TURBIDITY BARRIERS. CONTRACTOR SHALL INSTALL ADDITIONAL WATER QUALITY CONTROL MEASURES AS APPROPRIATE TO ASSURE ADEQUATE PROTECTION OF RECEIVING WATER BODIES.
 B. STORMWATER MANAGEMENT: THE ENTIRE PROJECT IS DESIGNED TO IMPROVE STORMWATER MANAGEMENT. THE CONTRACTOR SHALL CONTROL TURBID RUNOFF FROM THE PROJECT SITE BY USING TEMPORARY GRADING AND INSTALLING EROSION CONTROL MEASURES.
 C. OTHER CONTROLS: ALL GUIDELINES AND REGULATIONS SET FORTH IN THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT AND FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.
 4. MAINTENANCE:
 - THE CONTRACTOR SHALL PROVIDE ROUTINE MAINTENANCE OF VEGETATION, PERMANENT AND TEMPORARY EROSION AND SEDIMENT CONTROL FEATURES FOR THE DURATION OF THE PROJECT.
 - THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED ON THE CONSTRUCTION PLANS AND SHALL RE-GRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL NEW LANDSCAPING IS ESTABLISHED.
 - ALL DRAINAGE STRUCTURES SHALL BE DE-SILTED AS REQUIRED DURING CONSTRUCTION AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS AND MINIMIZE TRANSPORT OF SILT TO THE MASTER DRAINAGE SYSTEM AND RECEIVING WATER BODY.
 - ALL ACCUMULATIONS OF SILT GREATER THAN SIX INCHES SHALL BE REMOVED BY THE CONTRACTOR AND PROPERLY DISPOSED.
 - ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES WILL BE INSPECTED BY THE CONTRACTOR ON A WEEKLY BASIS (MINIMUM), IN AREAS OF ONGOING CONSTRUCTION ACTIVITY. TURBIDITY AND EROSION CONTROL MEASURES WILL BE INSPECTED ON A DAILY BASIS. ADDITIONAL INSPECTIONS WILL BE CONDUCTED AFTER ALL SEVERE WEATHER. IF ANY DEFICIENCIES IN EROSION CONTROL ARE DISCOVERED, CORRECTIVE ACTIONS SHALL BE TAKEN IMMEDIATELY BY THE CONTRACTOR.
 5. INSPECTIONS:
 INSPECTIONS WILL BE PERFORMED BY THE CONTRACTOR ON A WEEKLY BASIS (MINIMUM) AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER.
 A. INSPECTIONS SHALL INCLUDE, BUT ARE NOT LIMITED TO: ALL DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT RECEIVED FINAL STABILIZATION, AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION, EXAMINATION OF THE SITE FOR EVIDENCE OF, OR THE POTENTIAL FOR POLLUTANTS ENTERING THE RECEIVING WATERS.
 B. WHEN REMEDIAL ACTION IS REQUIRED FOR COMPLIANCE, THE PLAN WILL BE REVISED AS NECESSARY AND ADDITIONAL STRUCTURAL MEASURES INSTALLED IMMEDIATELY AS WARRANTED.
 1) PRODUCT SPECIFIC PRACTICES:
 A) CONCRETE TRUCKS: CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.
 B) FERTILIZERS: FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORMWATER. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.
 C) PETROLEUM PRODUCTS: ALL ON-SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS, WHICH ARE CLEARLY LABELED.
 2) SPILL CONTROL PRACTICES:
 THESE ADDITIONAL PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION CLEANUP:
 - MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
 - MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT ON-SITE.
 - ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY AND REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY IF NECESSARY; AND
 - THE SPILL PREVENTION PLAN WILL BE MODIFIED TO INCLUDE MEASURES TO PREVENT A REOCCURRENCE, HOW TO CLEAN UP IF ANOTHER OCCURS, AND A DESCRIPTION OF WHAT SPILLED, WHAT CAUSED IT, AND WHAT THE CLEANUP MEASURES ARE.
 6. NON-STORMWATER DISCHARGES:
 NO NON-STORMWATER DISCHARGES ARE ANTICIPATED WITH THE POSSIBLE EXCEPTION OF DEWATERING. THE CONTRACTOR SHALL OBTAIN A DEWATERING PERMIT IF NECESSARY AND FOLLOW ALL STATE REQUIREMENTS AS ENFORCED BY THE WATER MANAGEMENT DISTRICT, FDEP AND MUNICIPALITY OR COUNTY WITH AUTHORITY.
 7. INVENTORY FOR POLLUTION PREVENTION PLAN:
 THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ON-SITE DURING CONSTRUCTION:
 - CONCRETE;
 - FERTILIZERS; AND
 - PETROLEUM BASED PRODUCTS.
 8. SPILL PREVENTION:
 A. MATERIAL MANAGEMENT PRACTICES:
 THE MATERIAL MANAGEMENT PRACTICES WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORMWATER RUNOFF.
 1) GOOD HOUSEKEEPING:
 - AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB;
 - ALL MATERIALS STORED ON-SITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF;
 - PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURERS' LABEL;
 - SUBSTANCES WILL NOT BE MIXED UNLESS RECOMMENDED BY THE MANUFACTURER;
 - MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED;
 - WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
 2) HAZARDOUS PRODUCTS:
 THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.
 - PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE;
 - ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION;
 - IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS' OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

REVISION	CITY/FOOT COMMENTS
DATE	
REV#	
1	7/31/23

261 E. Eau Gallie Blvd., Suite A
Melbourne, FL 32935

AVESTELA LLC
101 N. ATLANTIC AVE., COCOA BEACH, FL 32931

COSMIK TIKI

CONSTRUCTION ENGINEERING GROUP
Consulting Engineers

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

JAKE T. WISE, PE
PE # 55405

DATE: 06/28/23

SCALE: 1"=30'

PROJ. NO.: 230012

DESIGNED BY: LDS

DRAWN BY: WGM

CHECKED BY: JTW

DRAWING NO. G-2

GENERAL NOTES: (ALL DRAWINGS)

1. SEE TYPICAL DETAILS ON FOLLOWING SHEETS FOR ADDITIONAL CONSTRUCTION DETAIL INFORMATION.
2. CONTRACTOR SHALL BECOME FAMILIAR AND COMPLY WITH ALL PERMITS AND PERMIT CONDITIONS. CONTRACTOR SHALL OBTAIN PERMISSION FROM CEG OR ALL PERMIT AGENCIES IDENTIFIED IN SPECIFICATIONS PRIOR TO COMMENCING SITE WORK.
3. ALL AREAS DISTURBED OFF-SITE SHALL BE RESTORED TO EQUAL OR BETTER CONDITION THAN PRE-CONSTRUCTION WITH SAME TYPE OF SOD AS EXISTING.
4. CONTRACTOR SHALL COMPLY WITH ALL RECOMMENDATIONS OF KSM SUBSURFACE EXPLORATION REPORT FOR THIS SITE. CONTRACTOR SHALL OBTAIN FROM CEG OR THE GEOTECHNICAL COMPANY. SLOPE ALL SIDEWALKS TO FLOW AWAY FROM BUILDING WITH MAXIMUM 2% CROSS SLOPE.
6. PROVIDE CONSTANT SLOPE BETWEEN ALL SPOT ELEVATIONS.
7. UTILITY LENGTHS ARE APPROXIMATE BASED ON FIELD OBSERVATIONS AND AS-BUILT DRAWINGS. CONTRACTOR SHALL VERIFY EXACT LOCATION, SIZE, DEPTH, AND MATERIAL OF EXISTING UTILITIES. PROVIDE ADDITIONAL PIPING AND FITTINGS AS NECESSARY. NOTIFY ENGINEER OF SIGNIFICANT INCREASES.
8. NOTIFY ENGINEER MINIMUM 72 HOURS (WEEKDAYS) PRIOR TO MAKING UTILITY CONNECTIONS OR BACK FILLING UTILITY TRENCHES FOR INSPECTION. IF NOT NOTIFIED, CONTRACTOR SHALL EXPOSE LINES PER ENGINEER'S REQUEST FOR INSPECTIONS.
9. ALL TRAFFIC SIGNS SHALL BE INSTALLED PER STANDARD FDOT INDEX NOS. 700-010 AND 700-101.
10. PROVIDE 36" LONG TRANSITION WITH CONSTANT SLOPE FROM TOP OF CURB TO GRADE AT TERMINATION POINT OF CURBS.
11. ALL DIMENSIONS ARE TO FACE OF CURB.
12. CONTRACTOR SHALL CLEAR AND GRUB ALL VEGETATION ON-SITE EXCEPT TREES SHOWN TO REMAIN ON DRAWING C-1 OR LANDSCAPE PLANS.
13. PROVIDE SILT FENCE AND TURBIDITY BARRIER ALONG ENTIRE PERIMETER OF PROJECT AREA EXCLUDING ENTRANCE DRIVEWAYS OR AS SHOWN ON DRAWING G-2 (SWPPP).
14. CONTRACTOR SHALL PAINT OR OTHERWISE FINISH THE DUMPSTER ENCLOSURE WALLS TO COMPLIMENT THE BUILDING. COLOR AND/OR FINISH SELECTION BY OWNER OR ARCHITECT.
15. ALL WASTE SHALL BE DISPOSED OF OFF-SITE IN A SAFE AND LEGAL MANNER UNLESS OWNER SPECIFICALLY REQUESTS OTHERWISE.
16. FOR DEMOLITION OF ALL ASPHALT AND CONCRETE MATERIALS, SAWCUT EDGES FOR SMOOTH STRAIGHT EDGE. ALSO SAWCUT ALL EXISTING PAVEMENT EDGES FOR SMOOTH STRAIGHT EDGE AT ALL TIE-IN POINTS WITH NEW PAVEMENT OR CONCRETE.
17. PROVIDE HANDICAP ACCESSIBLE CONNECTION WITH TRUNCATED DOMES AT TERMINATION POINT OF ALL SIDEWALKS ADJACENT TO DRIVING LANES PER FDOT STANDARD INDEX NO. 522-002.
18. CONTRACTOR SHALL VERIFY ON-SITE PRIOR TO BIDDING WORK THE FULL EXTENT OF DEMOLITION REQUIRED BASED ON SITE PLAN CONSTRUCTION DRAWINGS. ALL ITEMS SHALL BE INCLUDED IN BASE BID.
19. REMOVE ALL ABOVE GROUND IMPROVEMENTS IN AREAS SHOWN FOR DEMOLITION UNLESS SPECIFICALLY IDENTIFIED OTHERWISE.
20. SEE ARCHITECTURAL DRAWINGS FOR BUILDING LAYOUTS AND FIRE SPRINKLER/PLUMBING DRAWINGS FOR EXACT UTILITY CONNECTION LOCATIONS.
21. ALL SLOPES 4H:1V OR STEEPER SHALL BE SODDED OR PER PLAN. ALL SLOPES STEEPER THEN 3H:1V SHALL BE SODDED AND STAKED.
22. CONTRACTOR SHALL PROVIDE ALL FITTINGS REQUIRED TO INSTALL UTILITIES PER PLAN.
23. CONTACT UNDERGROUND UTILITIES LOCATE BEFORE COMMENCING ANY DIGGING A MINIMUM OF 48 HOURS IN ADVANCE AT 811.
24. VERIFY THAT THE LANDSCAPE WORK IS COORDINATED WITH ALL UTILITIES AND STORMWATER SYSTEMS. A MINIMUM OF FIVE (5) FOOT HORIZONTAL SEPARATION BETWEEN TREES AND BURIED, AERIAL, OR GRADE-MOUNTED UTILITY SYSTEMS IS REQUIRED.
25. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PUBLIC ROADWAYS, EASEMENTS, CURBS, SIDEWALKS, DRAINAGE SYSTEM, BENCHMARKS, OR UTILITIES AS A DIRECT RESULT OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING ALL BOUNDARY CORNERS AND BENCHMARKS DISTURBED OR DESTROYED DURING CONSTRUCTION REPLACED BY A FLORIDA LICENSED LAND SURVEYOR.
26. ALL EXCAVATIONS OF GREATER DEPTH THAN 5' SHALL COMPLY WITH THE CURRENT OSHA TRENCH SAFETY STANDARDS 29 C.F.R. s. 1926.650 SUBPART P. ANY EXCAVATION WITHIN THE CLEAR ZONE SHALL ALSO COMPLY WITH ALL WARNING AND/OR BARRIER REQUIREMENTS OF FDOT INDEX NO. 102-600.
27. STORM DRAIN CLEAN OUT SHALL MATCH SANITARY SEWER CLEAN OUT.
28. CONSTRUCTION ENGINEERING GROUP DOES NOT WARRANT THE ACCURACY OF THE RECORD SURVEY.
29. GRADING ADJACENT TO BUILDINGS SHALL BE 6" BELOW FINISHED FLOOR UNLESS IDENTIFIED OTHERWISE BY ARCHITECT OR ON GRADING PLANS.
30. PROVIDE TRUNCATED DOMES IN RIGHT-OF-WAYS ONLY AND TACTILE SURFACE PER FLORIDA BUILDING CODE REQUIREMENTS ON-SITE AND IN RIGHT OF WAY.
31. ALL PROPOSED ELEVATIONS ARE REFERENCED IN NAVD 1988.
32. THE FIRE LINE SHOWN DOWNSTREAM OF THE DOUBLE DETECTOR CHECK VALVE ASSEMBLY IS FOR AN APPROXIMATE LOCATION ONLY. THE FINAL DESIGN SHALL BE FROM THE FIRE PROTECTION ENGINEER.
33. CONTRACTOR SHALL CLEAR ALL TREES AND VEGETATION AS NECESSARY TO COMPLETE ROADWAY IMPROVEMENTS AND MEET FDOT CLEAR ZONE REQUIREMENTS. SOD ALL DISTURBED AREAS.
34. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY OWNER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.

FDOT GENERAL NOTES: (ALL DRAWINGS)

1. ALL WORK PERFORMED WITHIN THE FDOT RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH 2023/24 EDITION OF THE FDOT STANDARDS PLANS FOR ROAD AND BRIDGE CONSTRUCTION, 2023 SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE 2017 UTILITY ACCOMMODATION MANUAL.
2. ALL PAVEMENT MARKINGS PERTAINING TO FDOT PROPOSED DRIVEWAY CONNECTION SHALL BE THERMOPLASTIC.
3. ALL RAISED PAVEMENT MARKERS (RPM) INSTALLED WITHIN THE FDOT RIGHT-OF-WAY AND PROPOSED DRIVEWAY CONNECTION SHALL BE IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX NO. 706-001.
4. ALL EXCAVATIONS WITHIN TEN (10) FEET OF THE TRAVEL LANES AND GREATER THAN THREE (3) INCHES DEEP MUST BE FILLED IN OR HAVE A SHOULDER TREATMENT PLACED AT THE DROP-OFF PER INDEX NO. 102-600 OF FDOT STANDARDS PLANS INDEXES AT THE END OF THE WORKDAY.
5. CONTRACTOR SHALL CONTACT FDOT TWO WEEKS IN ADVANCE AND SET UP A PRE-CONSTRUCTION MEETING PRIOR TO STARTING ANY WORK IN FDOT RIGHT-OF-WAY.
6. ALL TRAFFIC CONTROL DEVICES MUST BE IN PLACE BEFORE WORK CAN START.
7. MAINTENANCE OF TRAFFIC TO BE SUPERVISED BY A FDOT CERTIFIED WORK TRAFFIC SUPERVISOR.
8. IT WILL BE THE RESPONSIBILITY OF THE PERMITEE TO REPAIR ANY DAMAGE TO FDOT FACILITIES CAUSED BY CONSTRUCTION OF THE PROJECT.
9. PERMITEE SHALL NOT BEGIN WORK WITHIN THE FDOT RIGHT-OF-WAY UNTIL A FDOT INSPECTOR IS PRESENT AT THE JOB SITE AND AGREES THAT PROPER PREPARATIONS HAVE BEEN MADE.
10. SOD ALL UNPAVED AREAS WITHIN FDOT RIGHT-OF-WAY THAT ARE DISTURBED BY CONSTRUCTION PER FDOT STANDARDS PLANS INDEX NO. 570-010.
11. ALL SIDEWALK TO BE REMOVED AND REPLACED FROM JOINT TO JOINT AND 1/2" EXPANSION JOINTS (PERFORMED JOINT FILLER) PLACED BETWEEN OLD AND NEW SIDEWALK.
12. ALL AFFECTED SIDEWALK, RAMPS, AND CROSSWALKS WILL BE BUILT AND INSPECTED TO MEET CURRENT ADA REQUIREMENTS.
13. ENGINEER'S CERTIFICATION TOGETHER WITH AS-BUILT PLANS ARE REQUIRED TO BE SUBMITTED WITHIN 30 DAYS OF COMPLETION WORK WITHIN FDOT RIGHT-OF-WAY.
14. PERMITEE SHALL NOT COMMENCE USE OF CONNECTION PRIOR TO FINAL INSPECTION AND FINAL ACCEPTANCE BY DEPARTMENT. FAILURE TO COMPLY WITH PERMIT CONDITION MAY RESULT IN REVOCATION OF THE PERMIT AND CLOSURE OF DRIVEWAY PER FL RULE CHAPTER 14-96.
15. FDOT RIGHT-OF-WAY GRADE NOT TO BE CHANGED.
16. NO DUMPSTERS, PORTABLE TOILETS, CARS/TRUCKS TO BE PARKED WITHIN THE FDOT RIGHT-OF-WAY DURING CONSTRUCTION.
17. ALL SODDING AREAS WITHIN THE FDOT RIGHT-OF-WAY SHALL BE MAINTAINED BY WATERING AND GROWING TO BE ACCEPTABLE BY THE FDOT. ALL DEAD SOD IS TO BE REMOVED AND REPLACED FOR FDOT ACCEPTANCE.

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2681 Egu Calle Blvd, Suite A
Melbourne, FL 32935

Tel: 321.253.1221
www.cegengr.com
COA #000897

CONSTRUCTION ENGINEERING GROUP
Consulting Engineers



COSMIK TIKI

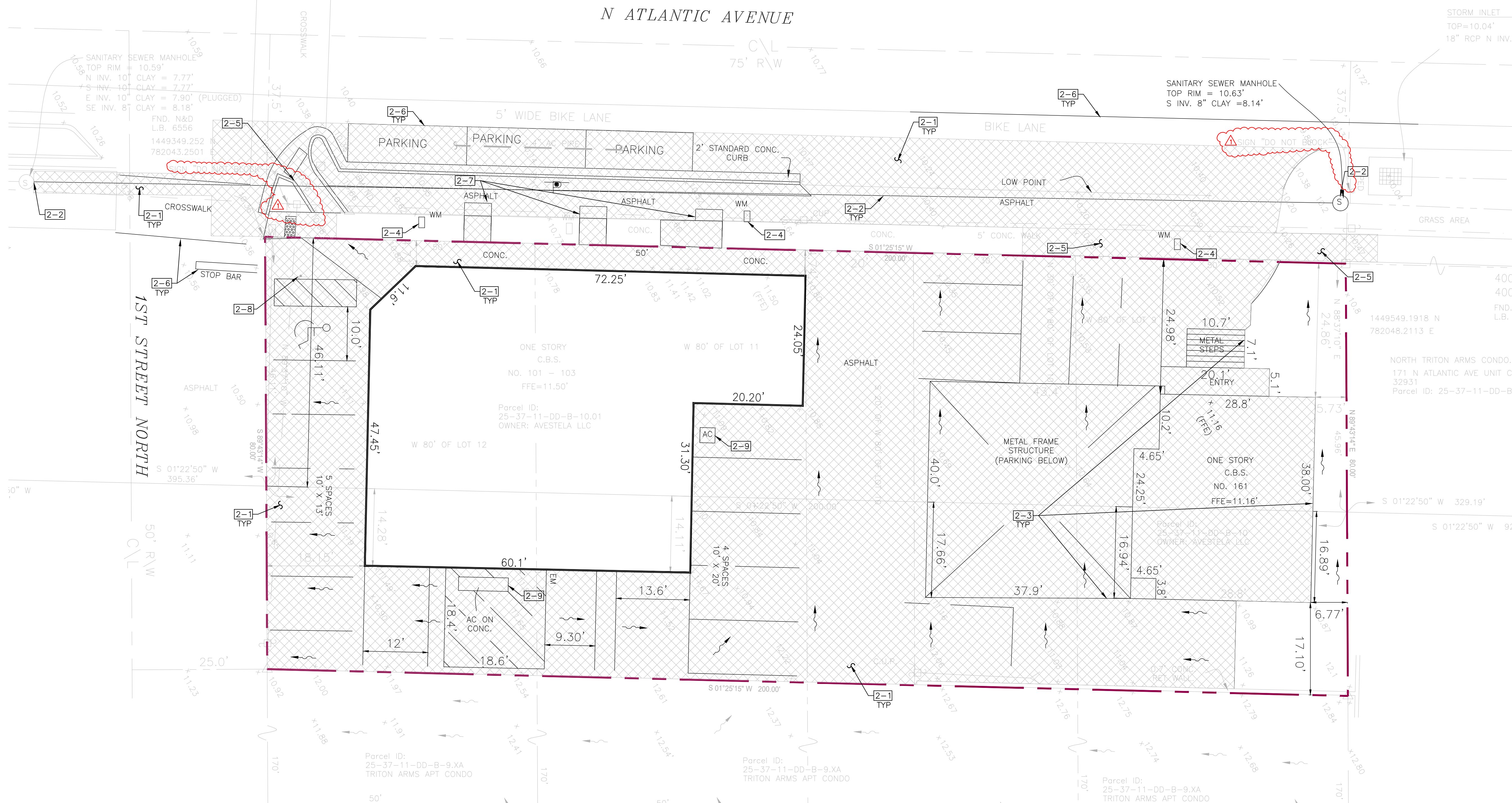
AVESTELA LLC
101 N. ATLANTIC AVE, COCOA BEACH, FL 32931

DRAWING TITLE
GENERAL NOTES

DATE	06/28/23
SCALE	NTS
PROJ. NO. :	230012
DESIGNED BY:	LDS
DRAWN BY:	WGM
CHECKED BY:	JTW
DRAWING NO.	G-3

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JAKE T. WISE, PE
PE # 55405



EXISTING CONDITIONS AND DEMOLITION PLAN

1"=10'



LEGEND & ABBREVIATIONS: ○ = Set 5/8" iron rod with plastic cap
 △ = Set nail with metal disc □ = Set concrete monument with disc
 — = 4' C.L.F. — = Center Line
 - - - = 6' W.F. - - - = 6' VINYL FENCE
 — = OHPL

(B.M.)=Benchmark,(CONC.)=Concrete,(C/L)=Centerline,(C.B.)=Concrete Block
 (C.B.S.)=Concrete Block Structure,(C.&S)=Covered and Screened,
 (C.M.)=Concrete Monument,(C.M.P.)=Corrugated Metal Pipe,(C.L.F.)=Chain Link Fence
 (D)=Deed,(E.M.)=Electric Meter,(F.F.E.)=Finished Floor Elevation,(Fnd.)=Found,
 (F.P.R.)=Fixed Point of Reference, (IRC)=Iron Rod with Cap,(I.P.)=Iron Pipe
 (G.M.)=Gas Meter,(L.B.)=Licensed Business,(L.S.)=Licensed Surveyor,(M)=Measured
 (M.E.S.)=Mitered End Section,(N&D)=Nail & Disc,(O.R.B.)=Official Records Book,
 (OHPL)=Over Head Power Line,(P.C.P.)=Permanent Control Point, (P)=Plat
 (P.O.B.)=Point of Beginning,(P.O.C.)=Point of Commencement
 (P.R.M.)=Permanant Reference Monument,(P.U. & D.E.)=Public Utility & Drainage Easement,
 (RNG.)=Range,(R.C.P.)=Reinforced Conc. Pipe,(R/W)=Right of Way,(SEC.)=Section
 (TWP.)=Township,(WUP)=Wood Utility Pole,(W.F.S.)=Wood Frame Structure,(W.M.)=Water Meter

SURVEYORS NOTES:

1. THIS PROPERTY IS LOCATED IN FLOOD ZONE(S) X. THE STRUCTURE IS LYING IN FLOOD ZONE(S) X, MAP NO. 12009C0453H, PANEL NO. 453, SUFFIX H, COMMUNITY NO. 125097, EFFECTIVE DATE, JANUARY 29, 2021.
2. THE BEARINGS SHOWN ARE BASED ON AN ASSUMED NORTH MERIDIAN, BEING N 01° 25' 15" E ALONG THE EAST R/W LINE OF N. ATLANTIC AVENUE.
3. THIS IS REAL PROPERTY BEING SITUATED IN SECTION 11, TOWNSHIP 25S, RANGE 37E.
4. THE SURVEYOR HAS NOT ABSTRACTED THE PROPERTY. ONLY PLATTED OR FURNISHED EASEMENTS OR ENCUMBRANCES THAT MAY RESTRICT THE PROPERTY ARE SHOWN.
5. UNDERGROUND IMPROVEMENTS ARE NOT LOCATED UNLESS REQUESTED.
6. ELEVATIONS IF SHOWN HEREON BASED ON NAVD88. ORIGINATING B.M. 70-80-A13 ELEV.= 10.06' (U.S. SURVEY FOOT) (NAVD88).
7. COORDINATES SHOWN HEREON OUR STATE PLANE COORDINATE NAD 83/90 FLORIDA EAST ZONE.

NOTES: □

- 2-1. REMOVE EXISTING PAVEMENT AND CURBING AS NEEDED FOR PROPOSED IMPROVEMENTS. SAWCUT FOR SMOOTH STRAIGHT EDGE.
- 2-2. CONTRACTOR SHALL REMOVE EXISTING NORTHERLY SANITARY SEWER MANHOLE AND PIPING COMPLETELY. COORDINATE WITH DRAWING C-4.
- 2-3. REMOVE EXISTING NORTHERN BUILDING, AND THE ASSOCIATED ABOVE & BELOW GROUND IMPROVEMENTS. COORDINATE REMOVAL OF POWER SERVICE WITH FPL.
- 2-4. CONTRACTOR SHALL CUT AND CAP EXISTING WATER SERVICE. COORDINATE WITH CITY OF COCOA FOR WATER METER REMOVAL.
- 2-5. SAWCUT AND REMOVE THE EXISTING SIDEWALK TO NEAREST JOINT FOR SMOOTH STRAIGHT EDGE. SEE DRAWING C-2 & C-3 FOR SIDEWALK REPLACEMENT.
- 2-6. PRESSURE WASH EXISTING STRIPING PRIOR TO ADDING NEW STRIPING COORDINATE WITH SITE PLAN.
- 2-7. EXISTING MANHOLE AND SEWER PIPING TO REMAIN. USE EXTREME CAUTION AROUND EXISTING MANHOLE AND SEWER PIPE.
- 2-8. CONTRACTOR SHALL RELOCATED EXISTING STOP SIGN AND STREET SIGN COORDINATE WITH SITE PLAN SHEET C-2. SEE TYPICAL DETAILS.
- 2-9. REMOVE EXISTING MECHANICAL EQUIPMENT COORDINATE WITH MEP PLANS FOR FURTHER DETAILS.



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2681 Eau Gallie Blvd, Suite A
 Melbourne, FL 32935
 Tel: 321.253.1221
 www.cegeengineering.com
 COA #000897

CONSTRUCTION ENGINEERING GROUP
 Consulting Engineers

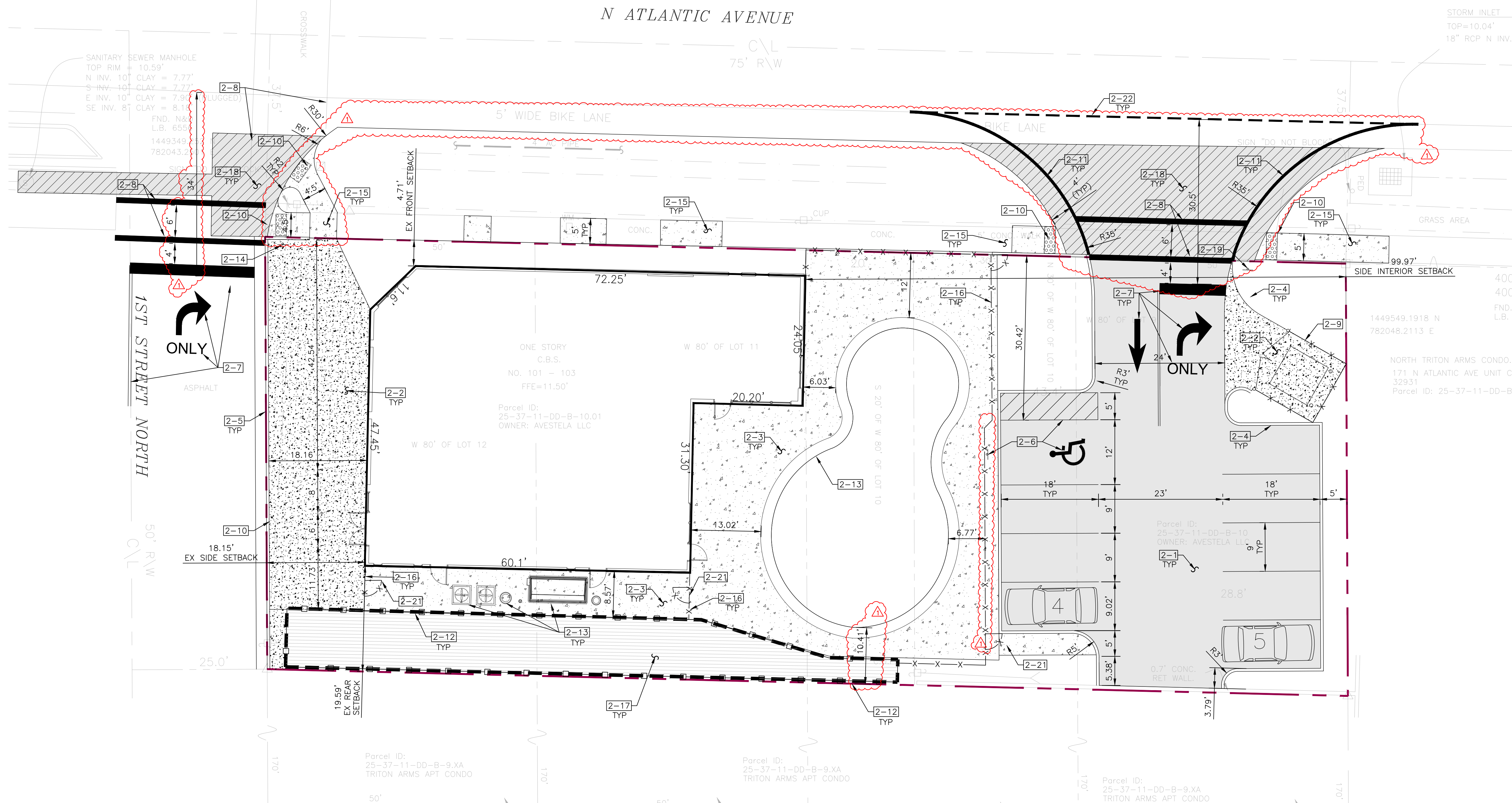
COSMIK TIKI

AVESTELA LLC
 101 N. ATLANTIC AVE, COCOA BEACH, FL 32931

EXISTING CONDITIONS AND DEMOLITION PLAN

DRAWING TITLE

DATE	06/28/23
SCALE	1"=10'
PROJ. NO.:	230012
DESIGNED BY:	LDS
DRAWN BY:	WGM
CHECKED BY:	JTW
DRAWING NO.	C-1



SITE PLAN
1"=10'

- NOTES:**
- 2-1. PROVIDE ONSITE ASPHALTIC PAVEMENT. SEE TYPICAL DETAILS.
 - 2-2. PROVIDE HEAVY DUTY CONCRETE. SEE TYPICAL DETAILS.
 - 2-3. PROVIDE ON-SITE CONCRETE SIDEWALK ON-SITE. ALL RAMPS SHALL MEET ADA SLOPE REQUIREMENTS. SEE FDOT INDEX 522.001 FOR SIDEWALK WITHIN RIGHT OF WAY. SEE TYPICAL DETAILS.
 - 2-4. PROVIDE FDOT TYPE "D" CURB. SEE TYPICAL DETAILS.
 - 2-5. PROVIDE TYPE "F" CURB AND GUTTER. SEE TYPICAL DETAILS.
 - 2-6. PROVIDE HANDICAP PARKING STRIPING WITH SIGNAGE. CONTRACTOR SHALL MOUNT SIGN TO FENCE. SEE TYPICAL DETAILS.
 - 2-7. PROVIDE WHITE THERMOPLASTIC 24" WIDE STOP BAR, 25' LF OF 6" DOUBLE YELLOW THERMOPLASTIC LINES AND WHITE THERMOPLASTIC DIRECTIONAL ARROWS WITH "ONLY" TEXT PER FDOT INDEX NO. 711-001. CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKINGS ON BOTH SIDES OF DOUBLE YELLOW LINE FROM STOP BAR. PER FDOT INDEX 706-001.
 - 2-8. PROVIDE 12" WIDE WHITE THERMOPLASTIC PARALLEL CROSSWALK STRIPING PER FDOT INDEX NO. 711-001. STRIPS SHALL BE A MINIMUM OF 6' APART.
 - 2-9. PROVIDE DUMPSTER ENCLOSURE. SEE TYPICAL DETAILS.
 - 2-10. PROVIDE TRUNCATED DOMES SET IN CONCRETE. SIDEWALK REPLACEMENT SHALL MEET ADA 2% MAXIMUM CROSS SLOPE AND 5% MAXIMUM RUNNING SLOPE REQUIREMENTS. SEE FDOT 522-022 USE TYPE (CR-A) FOR CURB RAMP.
 - 2-11. PROVIDE 4' WIDE SHOULDER WITH 6" WHITE THERMOPLASTIC LINE PER FDOT 711-001. SEE TYPICAL DETAILS.
 - 2-12. PROVIDE RETAINING WALL. SEE STRUCTURAL DRAWINGS FOR FURTHER DETAILS.
 - 2-13. POOL & POOL EQUIPMENT BY OTHERS.
 - 2-14. CONTRACTOR SHALL RELOCATE EXITING STREET, STOP SIGN, AND PROVIDE 'RIGHT TURN ONLY' SIGN MUTCD R3-5R UNDERNEATH STOP SIGN.
 - 2-15. PROVIDE 6" CONCRETE SIDEWALK IN RIGHT OF WAY. SEE TYPICAL DETAILS.
 - 2-16. PROVIDE FENCE PER OWNER/ARCHITECT INSTRUCTION, INSTALL PER MANUFACTURERS RECOMMENDATIONS.
 - 2-17. DECKING BY OTHERS. IF DECKING IS NOT PROVIDED CONTRACTOR SHALL PROVIDE 4' FENCE ON TOP OF RETAINING WALL. FINAL FENCE STYLE BY OWNER INSTALL PER MANUFACTURER RECOMMENDATION.
 - 2-18. PROVIDE RIGHT OF WAY ASPHALTIC PAVEMENT. SEE TYPICAL DETAILS.
 - 2-19. PROVIDE STOP SIGN PER FDOT INDEX NO. 711-001, MUTCD R1-1, & 'RIGHT TURN ONLY' SIGN MUTCD R3-5R UNDERNEATH STOP SIGN.
 - 2-20. NOT USED.
 - 2-21. PROVIDE LOCKABLE PEDESTRIAN GATE. MATCH FENCE STYLE. INSTALL PER MANUFACTURER RECOMMENDATIONS.
 - 2-22. PROVIDE 6" 2'-4" WHITE DASHED THERMOPLASTIC LINE PER FDOT INDEX NO. 711-001.

NOTE: CONTRACTOR SHALL PROVIDE MOT PLAN 2-WEEKS PRIOR TO THE START OF CONSTRUCTION FOR TEMPORARY LANE OR ROAD CLOSURES. CLOSURES WILL ONLY OCCUR DURING HOURS APPROVED BY CITY OF COCOA BEACH AND FDOT.



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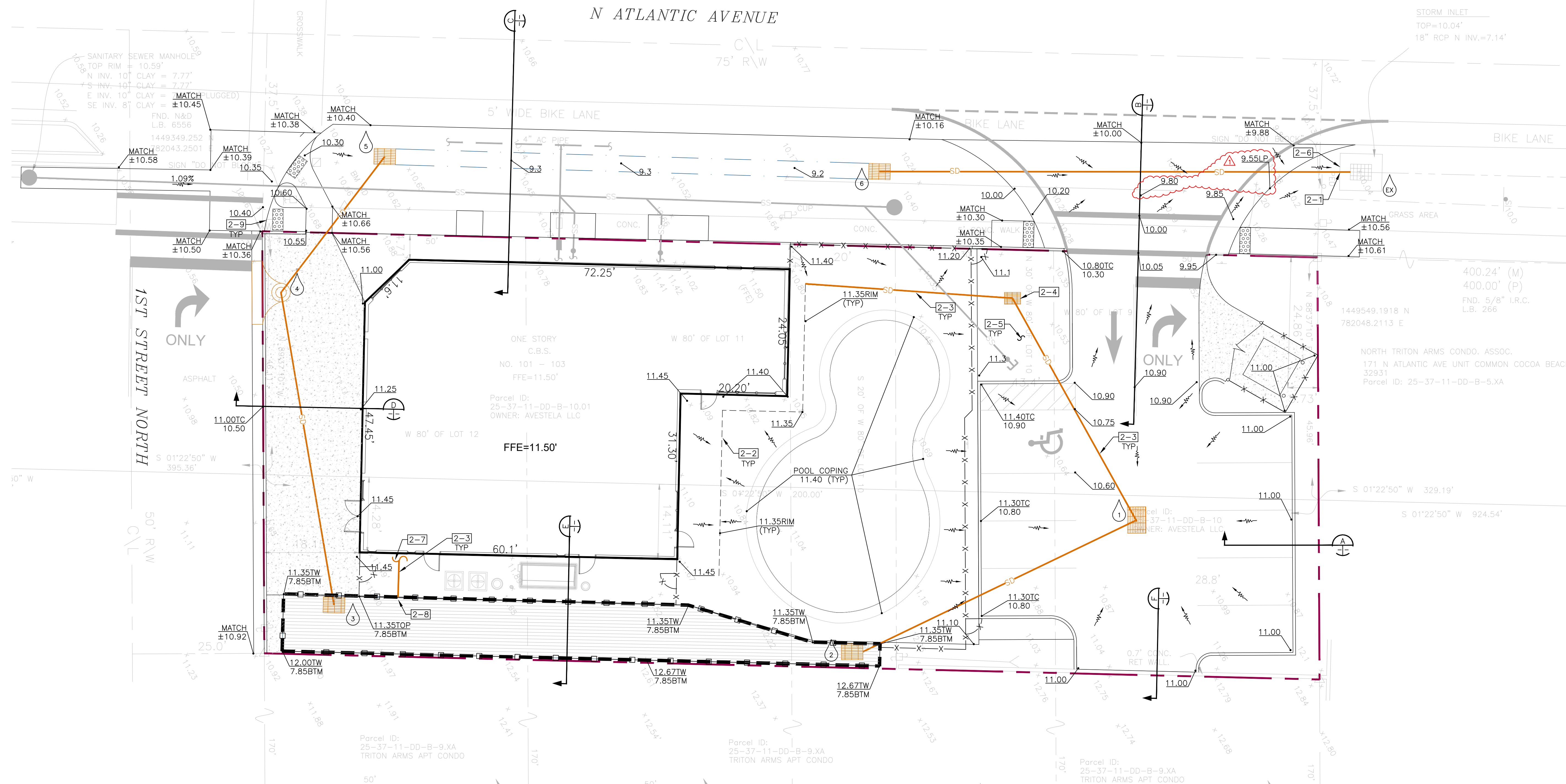
2651 Eau Gallie Blvd, Suite A
Melbourne, FL 32935
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DRAWING TITLE
SITE PLAN

JAKE T. WISE, PE
PE # 55405

DATE: 06/28/23
SCALE: 1"=10'
PROJ. NO.: 230012
DESIGNED BY: LDS
DRAWN BY: WGM
CHECKED BY: JTW
DRAWING NO.: C-2



REV#	DATE	CITY/FOOT	COMMENTS
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Melbourne, FL 32935
www.cegeengineering.com
COA #000097

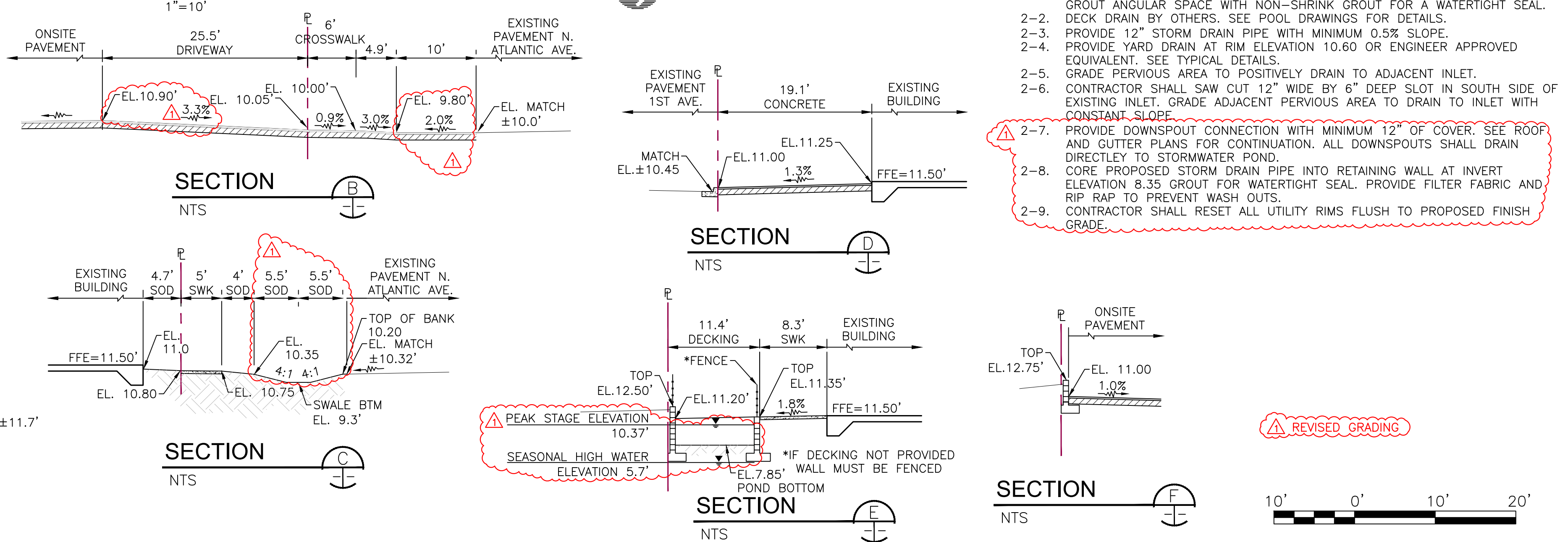
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DRAWING TITLE
GRADING AND DRAINAGE PLAN

NO.	TYPE	FOOT INDEX NO.	RIM ELEVATION	INVERT ELEVATION	DOWNSTREAM STRUCTURE NO.	PIPE SIZE	PIPE LENGTH	COMMENTS
1	F	425-053	10.40	7.15	2	18"	58'	-
2	C	425-052	7.85	4.85	-	-	-	BUBBLE-UP
3	C	425-052	10.25	7.60	4	18"	60'	CONTROL STRUCTURE
4	4	425-020	10.25	5.50	5	18" RCP	33'	-
5	C	425-052	9.40	5.15	-	-	-	-
6	C	425-052	9.40	6.20	EX	14"x23" E RCP	90'	-
EX	EX	-	EX	±7.14	-	-	-	-

- STORM DRAIN STRUCTURE NOTES:**
- ALL STRUCTURES SHALL BE MINIMUM 6" DEEPER THAN LOWEST PIPE INVERT.
 - ALL GRATES SHALL BE GALVANIZED STEEL WITH H=20 LOADING.
 - THE RIM ELEVATION FOR MANHOLES AND INLETS IS TOP OF STRUCTURE. FOR CURB AND GUTTER INLETS THE RIM ELEVATION IS EDGE OF PAVEMENT AND THE TOP IS PER LISTED FOOT INDEX.
 - PROVIDE ADEQUATE BOX SIZE AT BASE OF TYPE 4 INLETS AND TYPE J-8 MANHOLES FOR PIPE SIZES PER THIS PLAN.
 - ALL PIPING SHALL BE RCP. ADS N-12 PIPING IS AN ACCEPTABLE ALTERNATIVE ON-SITE WITH WATERTIGHT JOINTS IF MINIMUM 2' OF COVER IS PROVIDED UNLESS COMMENTS SPECIFY RCP.
 - ALL PROPOSED ELEVATIONS ARE REFERENCED IN NAVD88.
 - STRUCTURE NUMBERS 2, 3, AND 5 SHALL BE BUBBLE-UP TYPE. CUT 12"x12" HOLE IN BOTTOM AND INSTALL OVER 18" OF #57 STONE.
 - ALL PIPING IN RIGHT OF WAY SHALL BE RCP.

GRADING AND DRAINAGE PLAN



- NOTES:**
- CONNECT TO EXISTING STORM STRUCTURE. MATCH EXISTING INVERT ELEVATION. GROUT ANGULAR SPACE WITH NON-SHRINK GROUT FOR A WATERTIGHT SEAL. DECK DRAIN BY OTHERS. SEE POOL DRAWINGS FOR DETAILS.
 - PROVIDE 12" STORM DRAIN PIPE WITH MINIMUM 0.5% SLOPE.
 - PROVIDE YARD DRAIN AT RIM ELEVATION 10.60 OR ENGINEER APPROVED EQUIVALENT. SEE TYPICAL DETAILS.
 - GRADE PERVIOUS AREA TO POSITIVELY DRAIN TO ADJACENT INLET.
 - CONTRACTOR SHALL SAW CUT 12" WIDE BY 6" DEEP SLOT IN SOUTH SIDE OF EXISTING INLET. GRADE ADJACENT PERVIOUS AREA TO DRAIN TO INLET WITH CONSTANT SLOPE.
 - PROVIDE DOWNSPOUT CONNECTION WITH MINIMUM 12" OF COVER. SEE ROOF AND GUTTER PLANS FOR CONTINUATION. ALL DOWNSPOUTS SHALL DRAIN DIRECTLY TO STORMWATER POND.
 - CORE PROPOSED STORM DRAIN PIPE INTO RETAINING WALL AT INVERT ELEVATION 8.35 GROUT FOR WATERTIGHT SEAL. PROVIDE FILTER FABRIC AND RIP RAP TO PREVENT WASH OUTS.
 - CONTRACTOR SHALL RESET ALL UTILITY RIMS FLUSH TO PROPOSED FINISH GRADE.

JAKE T. WISE, PE
PE # 55405

DATE
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SCALE
1"=10'

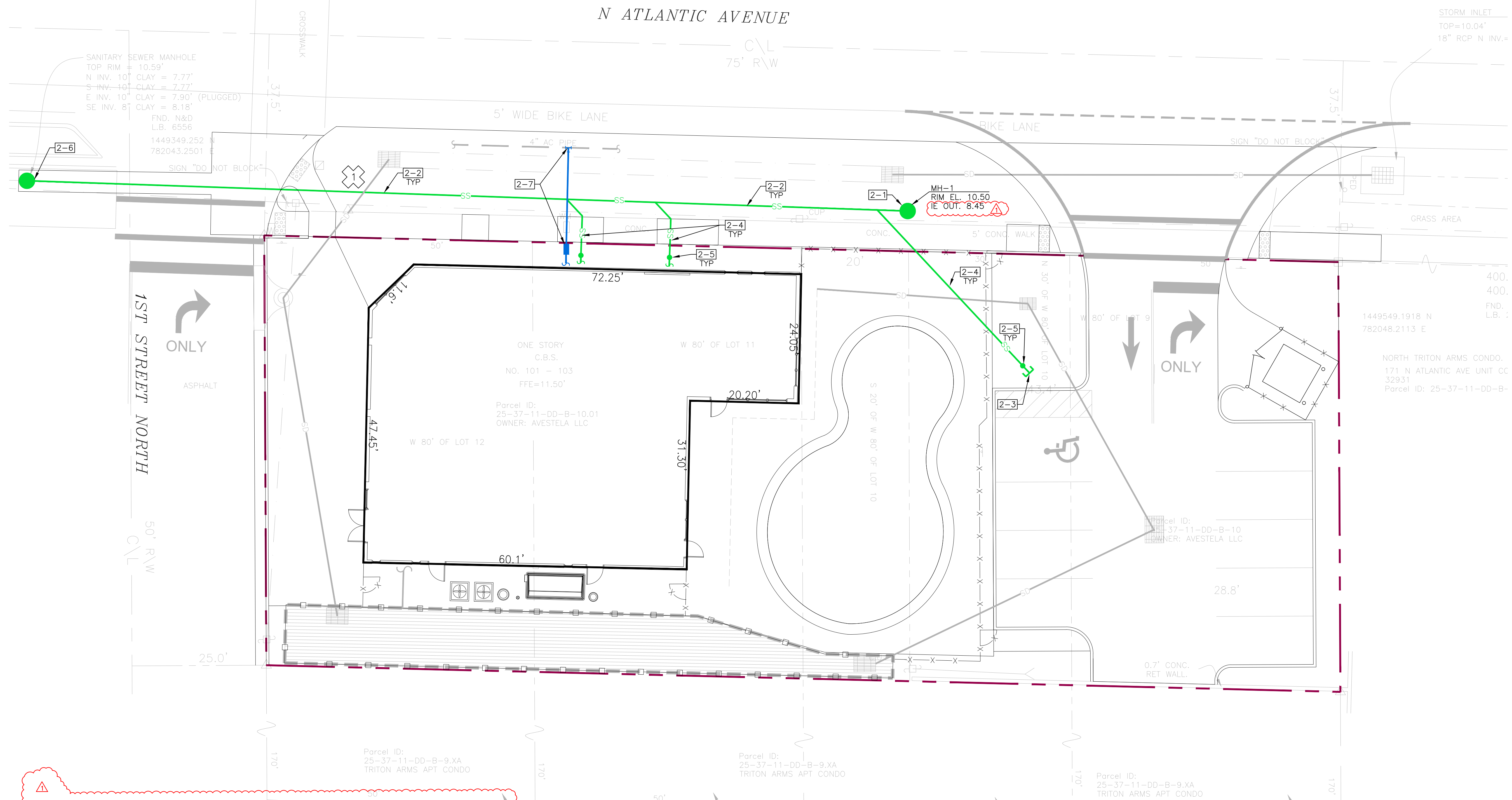
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C-3



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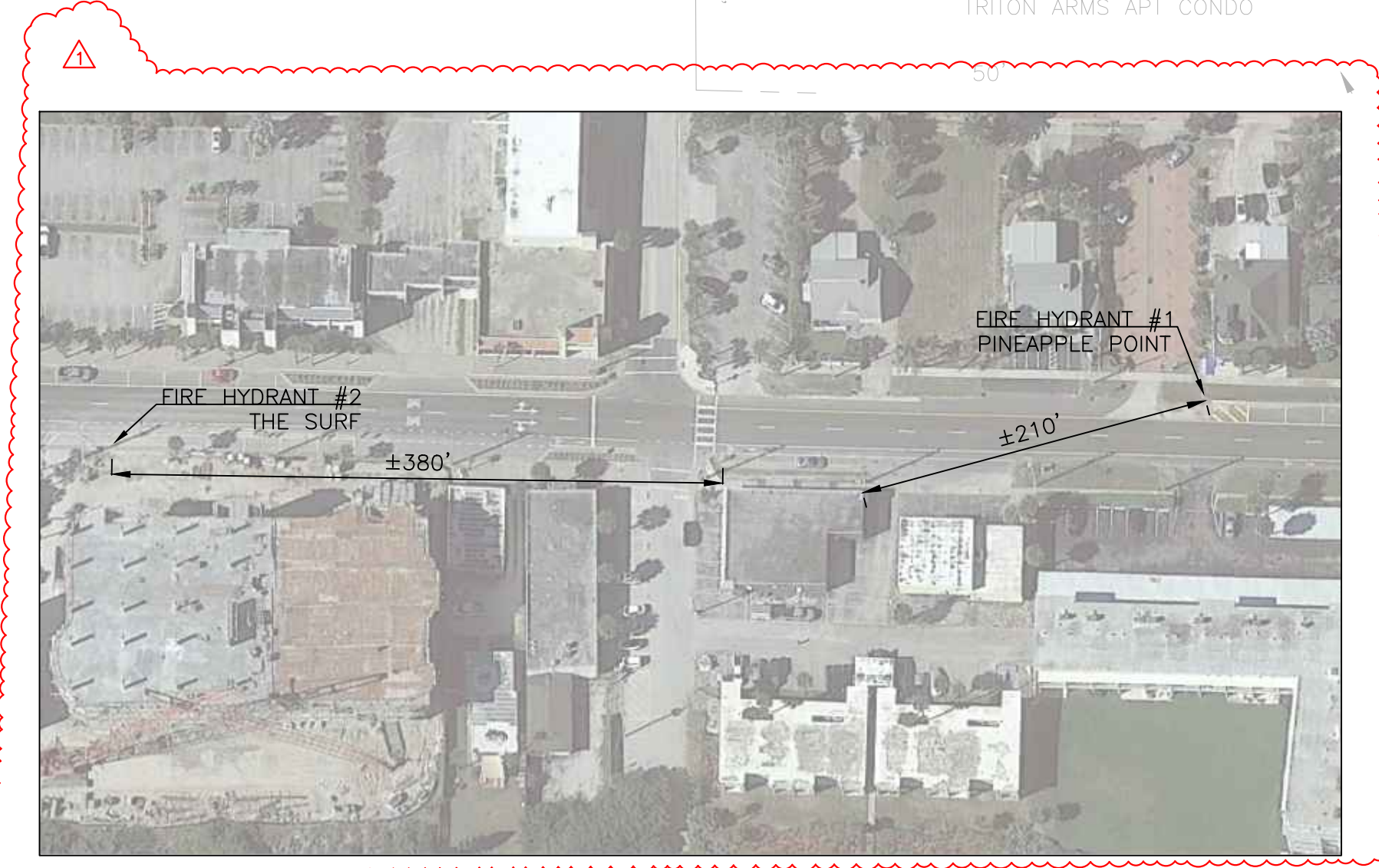
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101 N. ATLANTIC AVE, COCOA BEACH, FL 32931
DRAWING TITLE
UTILITY PLAN

DATE: 06/28/23
SCALE: 1"=10'
PROJ. NO.: 230012
DESIGNED BY: LDS
DRAWN BY: WGM
CHECKED BY: JTW
DRAWING NO.: C-4



UTILITY PLAN
1"=10'

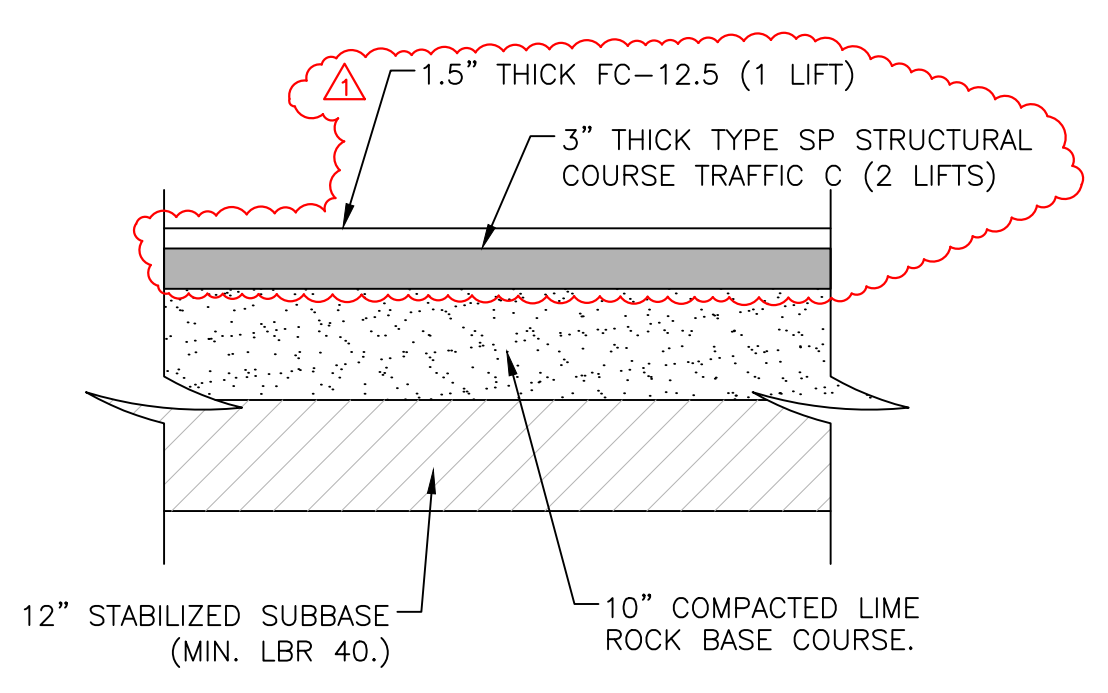
NOTES:

- 2-1. PROVIDE PRECAST SANITARY SEWER MANHOLE RIM ELEVATION 10.50' INVERT ELEVATION 8.45'. SEE TYPICAL DETAILS.
- 2-2. PROVIDE ±163 LF OF 8" PVC C-900 SANITARY SEWER MAIN AT 0.42%. SEE TYPICAL DETAILS.
- 2-3. CAP SANITARY SEWER FOR FUTURE CONNECTION.
- 2-4. PROVIDE 6" C-900 SANITARY SEWER AT MINIMUM 1.0% SLOPE. SEE TYPICAL DETAILS.
- 2-5. PROVIDE SANITARY SEWER CLEANOUTS. SEE TYPICAL DETAILS.
- 2-6. CONNECT TO EXISTING SANITARY SEWER MANHOLE AT INVERT ELEVATION 7.77'. SEE TYPICAL DETAILS.
- 2-7. CONTRACTOR SHALL PROVIDE 4"x4"x2" TAPPING SLEEVE, 1.5" METER & BACKFLOW PREVENTOR, & 2" PVC WITH MINIMUM 3 FEET OF COVER.

CROSSINGS TABLE:

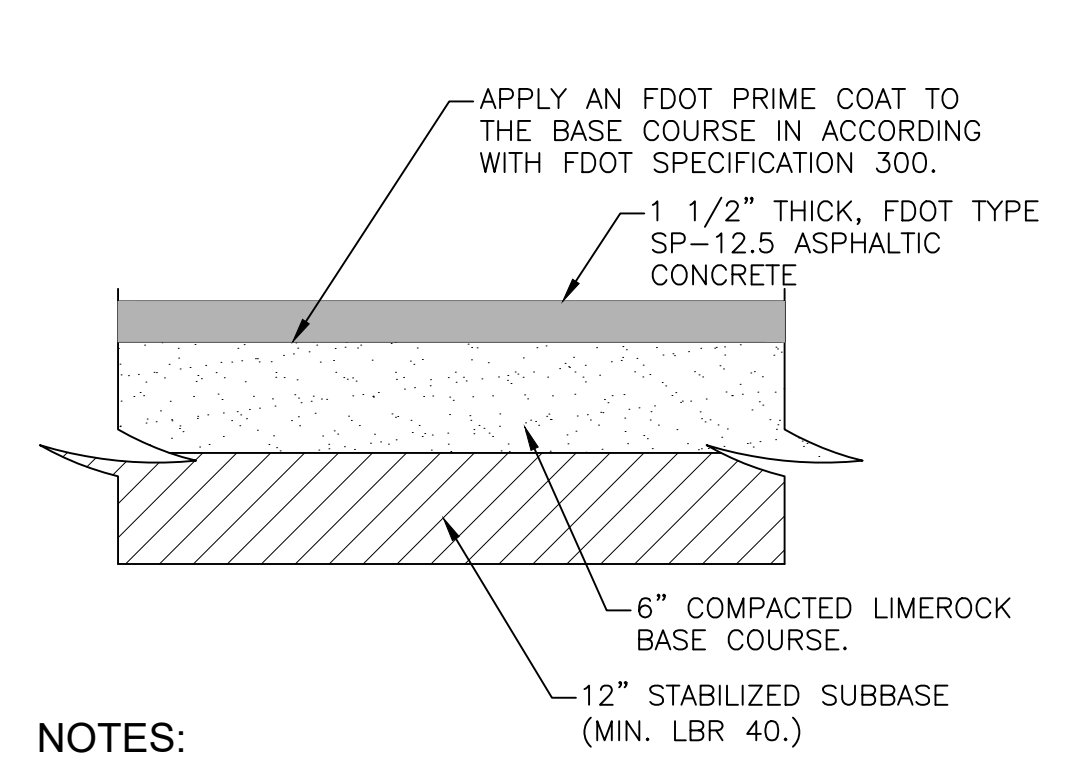
NO.	STORM SEWER ELEV.	SANITARY SEWER ELEV.	CLEARANCE
1	6.95 (TOP)	7.98 (BOT)	1.03'





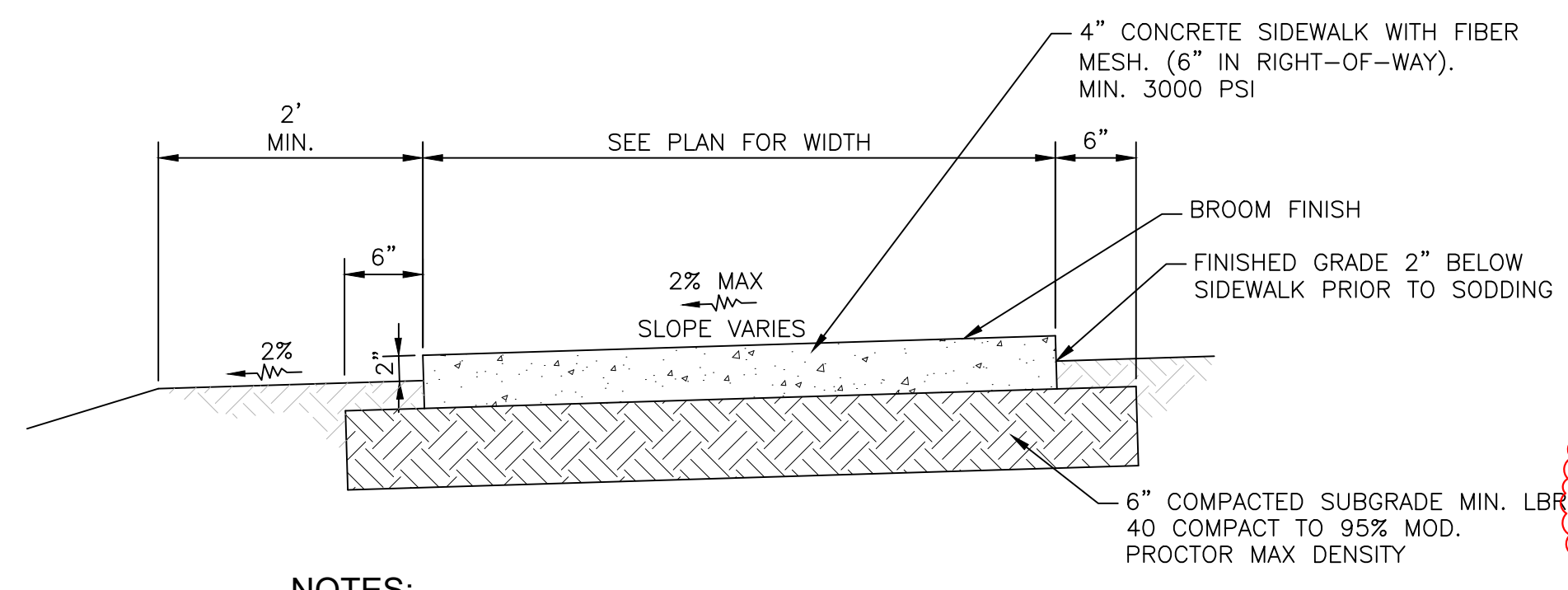
- NOTES:**
1. BASE COURSE SHALL BE INSTALLED WITH 2 LIFTS OF 5" EACH, PRIMED. AVERAGE LBR SHALL NOT BE LESS THAN 100. COMPACT TO 98% MAX. DENSITY PER AASHTO T-180, MODIFIED PROCTOR.
 2. SUBGRADE SHALL BE STABILIZED TO LBR 40 PER FDOT STANDARD SPECIFICATIONS 160-2. COMPACTION SHALL BE PROVIDED PER FDOT STANDARD SPECIFICATIONS SECTION 160.
 3. FOR PAVEMENTS WITHOUT CURBING OR OTHER ADJACENT IMPERVIOUS AREA, EXTEND BASE COURSE AND SUBBASE 2' BEYOND EDGE OF PAVEMENT.

TYPICAL RIGHT-OF-WAY ASPHALTIC CONCRETE DETAIL
NTS



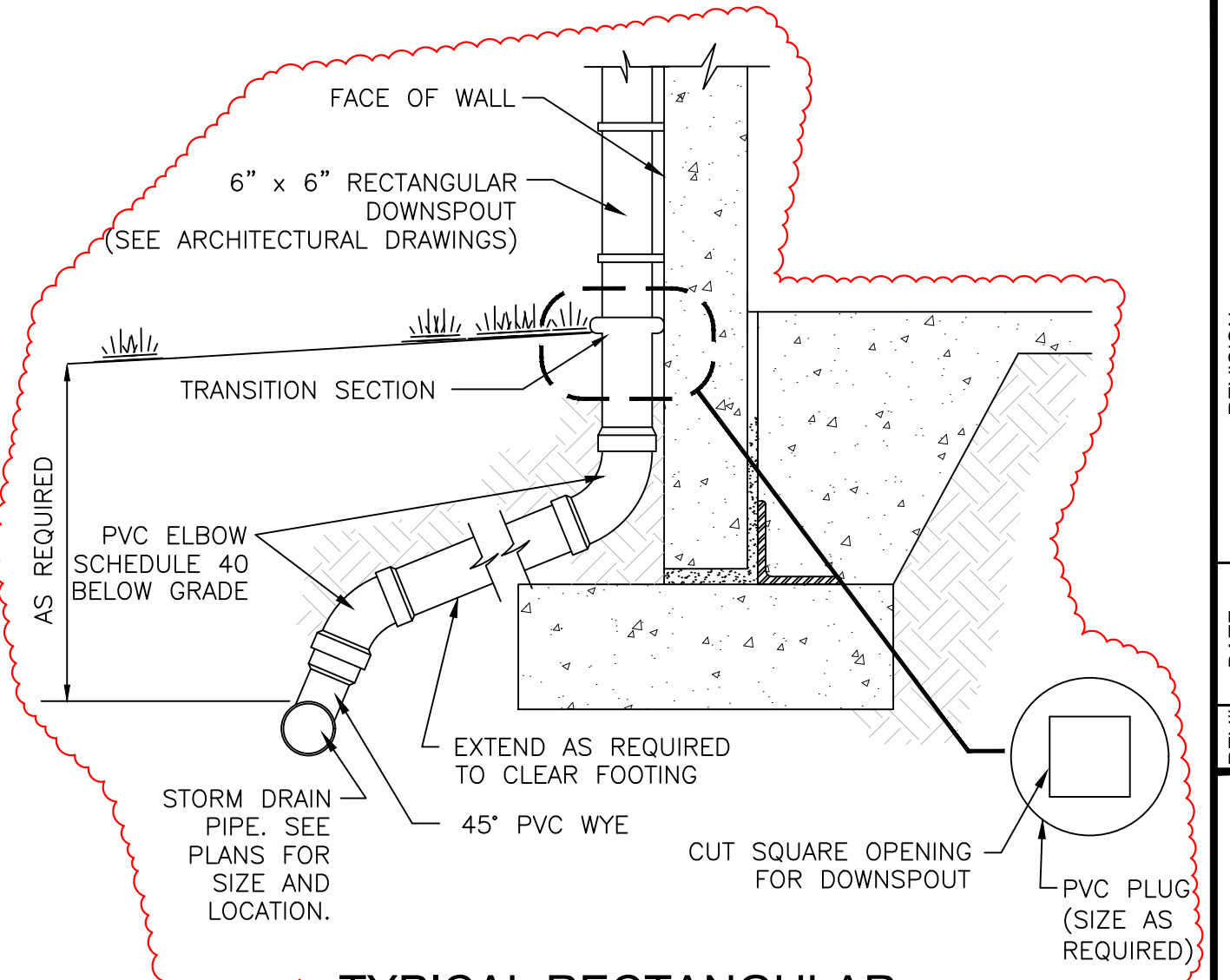
- NOTES:**
1. BASE COURSE SHALL BE INSTALLED WITH AVERAGE LBR NOT BE LESS THAN 100. COMPACT TO 98% MAX. DENSITY PER AASHTO T-180, MODIFIED PROCTOR.
 2. SUBGRADE SHALL BE STABILIZED TO LBR 40 PER FDOT STANDARD SPECIFICATIONS 160-2. COMPACTION SHALL BE PROVIDED PER FDOT STANDARD SPECIFICATIONS SECTION 160-8.
 3. FOR PAVEMENTS WITHOUT CURBING OR OTHER ADJACENT IMPERVIOUS AREA, EXTEND BASE COURSE & SUBBASE 2' BEYOND EDGE OF PAVEMENT.

TYPICAL ASPHALTIC PAVEMENT DETAIL
NTS



- NOTES:**
1. PROVIDE EXPANSION JOINTS AT CONNECTION POINTS OF OTHER IMPERVIOUS SURFACES INCLUDING BUT NOT LIMITED TO PAVEMENT, CURBS, OTHER SIDEWALKS, ETC.
 2. PROVIDE CONTRACTION JOINTS AT LOCATIONS PER FDOT INDEX NO. 522-001 FOR ENTIRE LENGTH OF SIDEWALK. CONSTRUCT JOINTS PER THIS INDEX AND FDOT REQUIREMENTS.
 3. CURE WITH A WHITE CURING COMPOUND PER FDOT STANDARD SPECIFICATION SECTION 925-2 APPLIED AT A RATE OF 1 GAL/200 S.F.

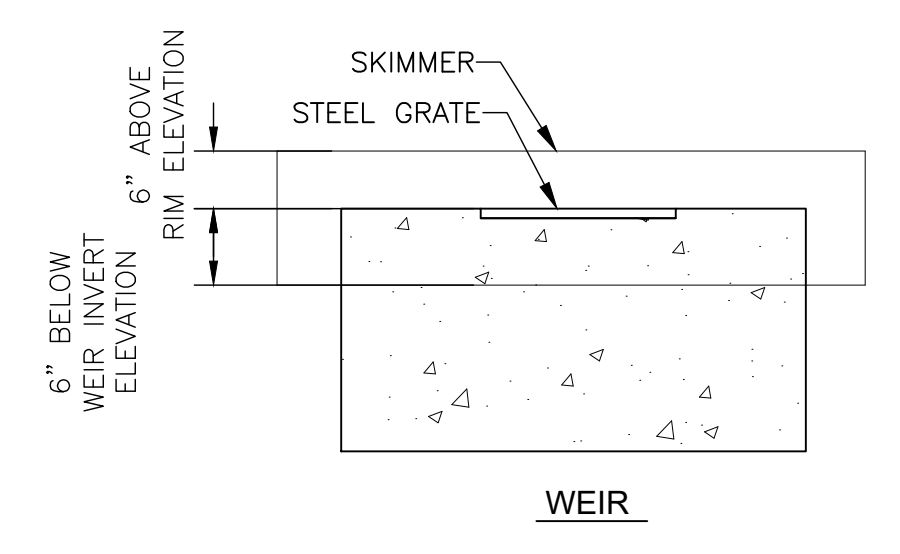
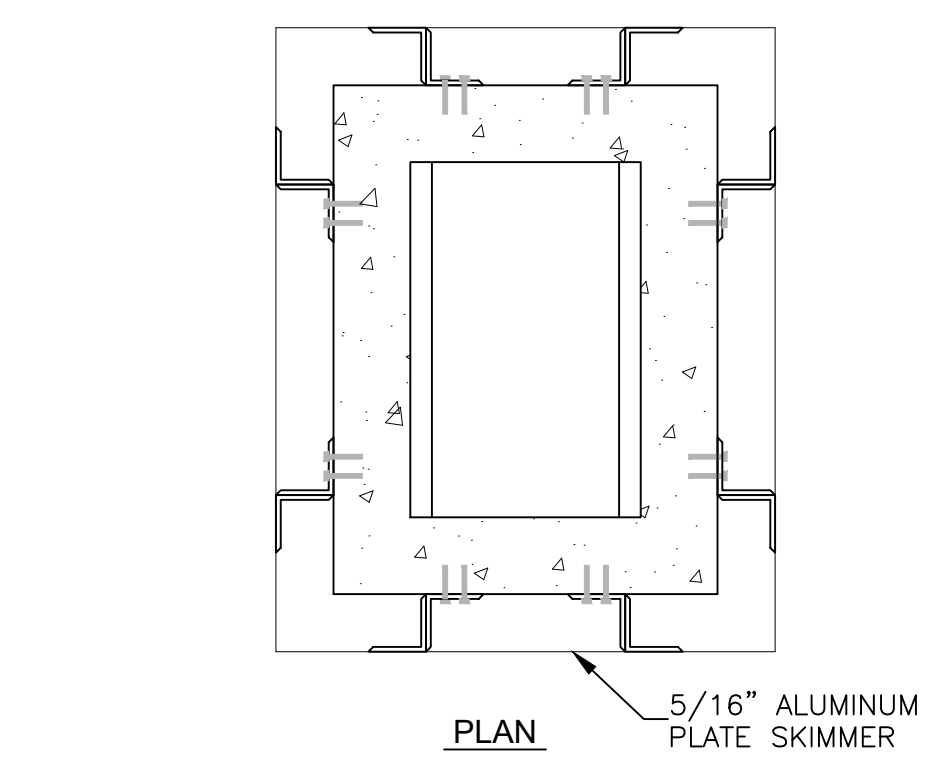
TYPICAL SIDEWALK DETAIL
NTS



TYPICAL RECTANGULAR DOWNSPOUT CONNECTION DETAIL
NTS

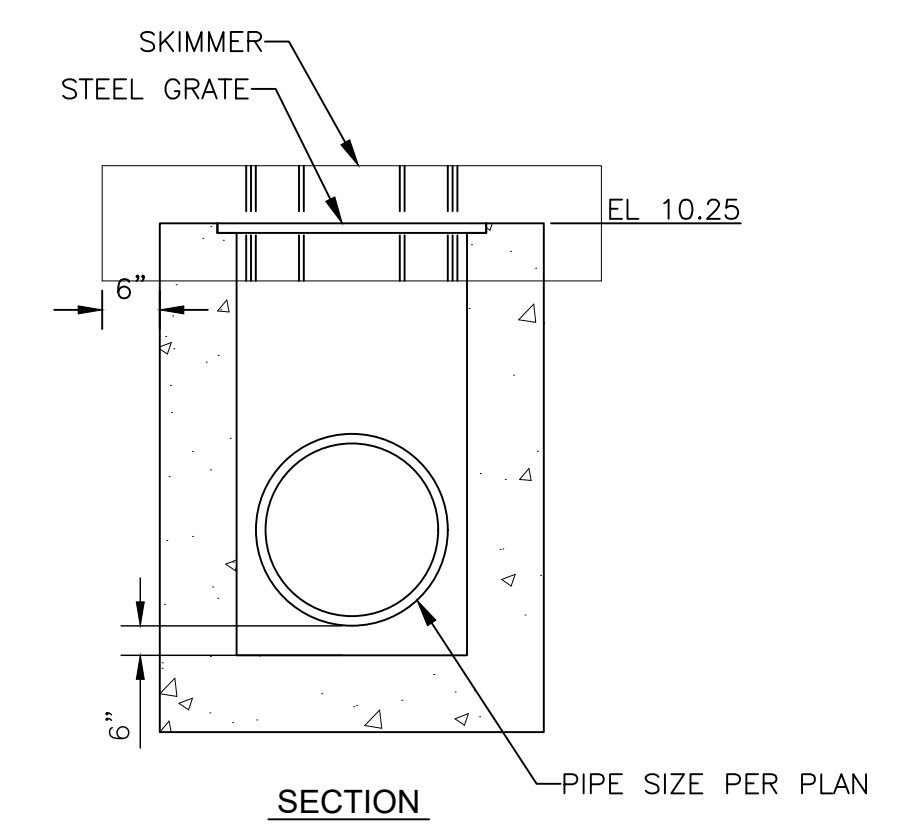
STANDARD CONSTRUCTION DETAIL CONCRETE PAVEMENT DETAILS

FILE NAME: CB_R17.DWG
DETAIL REF: R-17

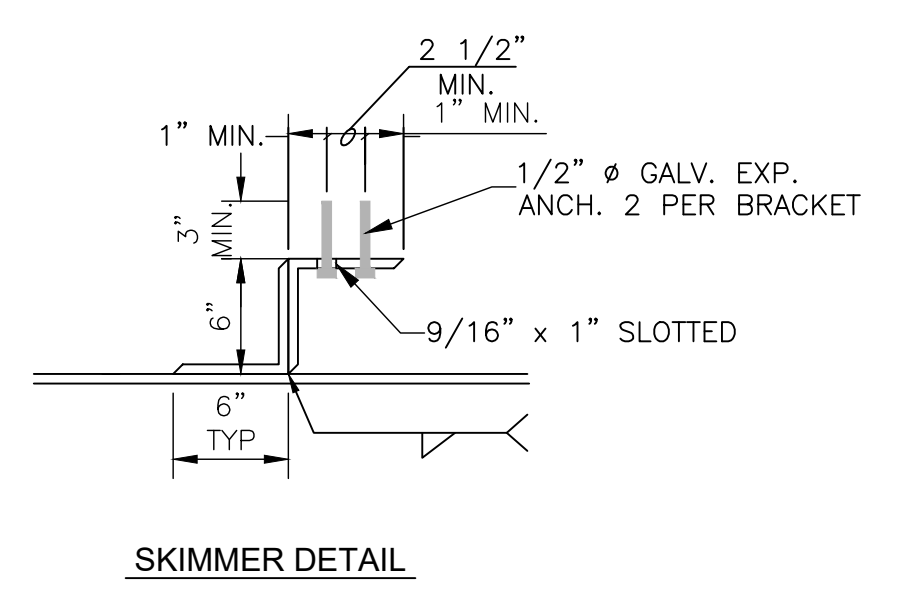


- NOTE:** SKIMMER SHALL BE INSTALLED HIGHER IF NECESSARY TO MAINTAIN 6" MINIMUM CLEARANCE OF POND BOTTOM OR SIDE SLOPE.

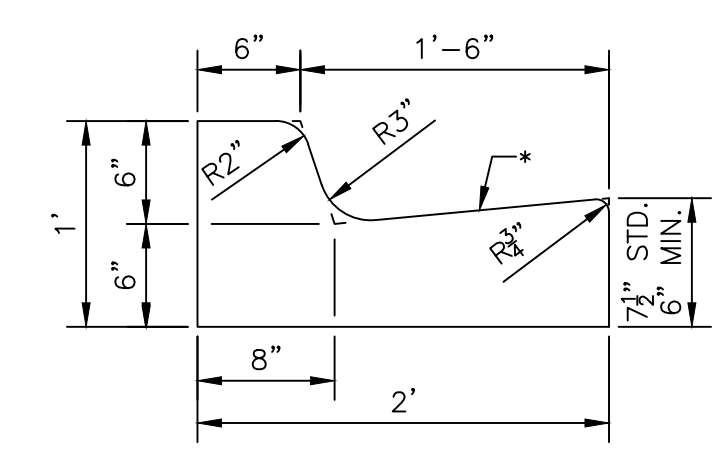
TYPICAL OVERFLOW WEIR DETAIL
NTS



SECTION - PIPE SIZE PER PLAN

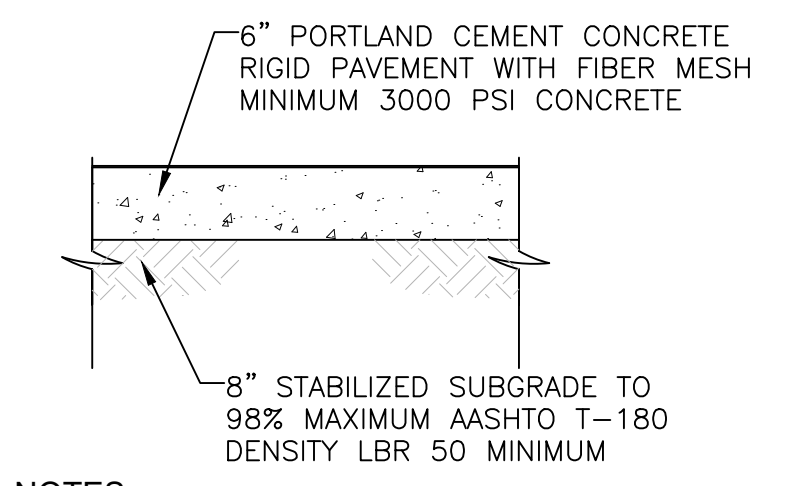


SKIMMER DETAIL



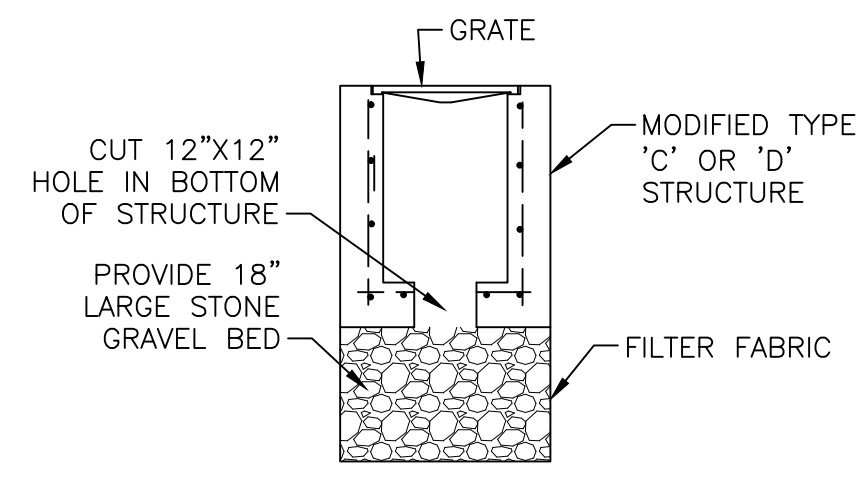
- *WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON PLANS.**

TYPICAL TYPE "F" CURB AND GUTTER DETAIL
NTS

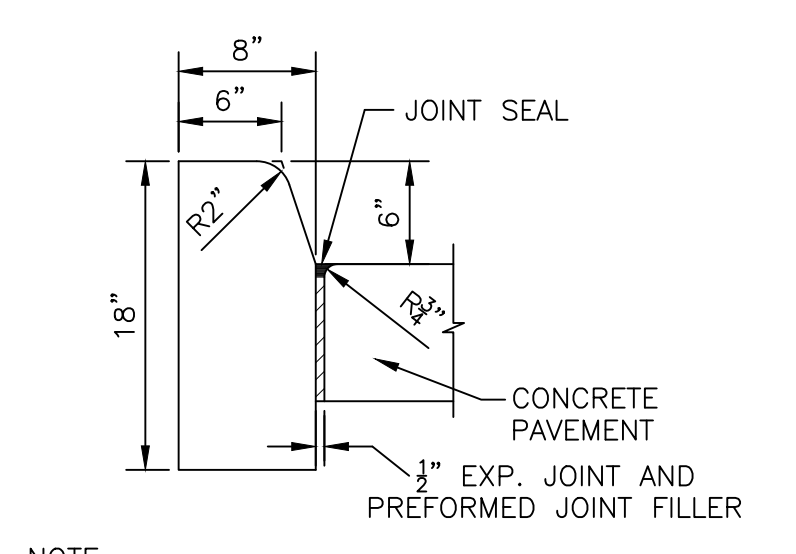


- NOTES:**
1. PROVIDE THICKENED EDGE PER TYPICAL DETAIL ON ALL EDGES.
 2. PROVIDE ENGINEER A JOINT PLAN FOR APPROVAL A MINIMUM OF ONE WEEK PRIOR TO POURING.

TYPICAL CONCRETE DRIVE DETAIL
NTS

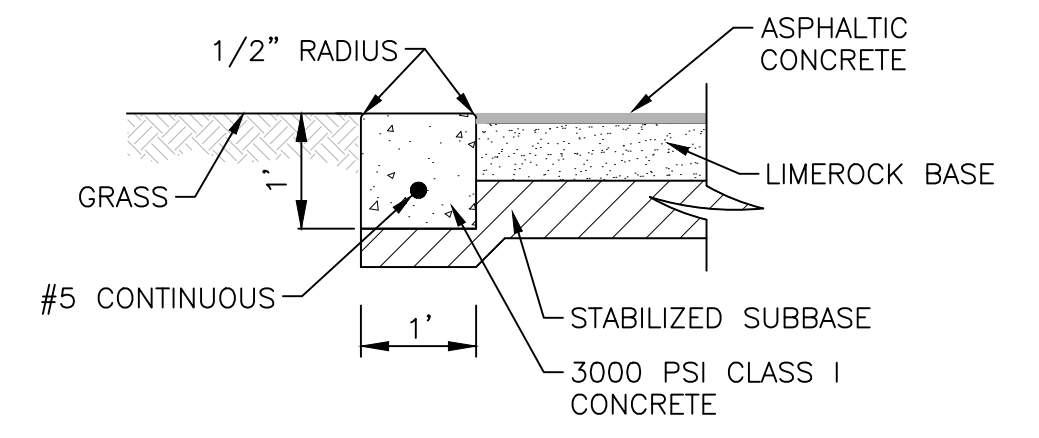


TYPICAL BUBBLE UP DETAIL
NTS



- NOTE:** FOR USE ADJACENT TO CONCRETE OR FLEXIBLE PAVEMENT, CONCRETE SHOWN, EXPANSION JOINT, PREFORMED JOINT FILLER AND JOINT SEAL ARE REQUIRED BETWEEN CURBS AND CONCRETE PAVEMENT ONLY.

TYPICAL FDOT TYPE "D" CURB DETAIL
NTS



TYPICAL RIBBON CURB DETAIL
NTS

REVISION	DATE	COMMENTS
1	7/31/23	CITY COMMENTS

281 Eou Galle Blvd, Suite A
Melbourne, FL 32935
Tel: 321.253.1221
www.cegeengineering.com
COA #000897

CONSTRUCTION ENGINEERING GROUP
Consulting Engineers

COSMIK TIKI


AVESTELA LLC
101 N. ATLANTIC AVE, COCOA BEACH, FL 32931

DETAILS

DATE: 06/28/23
SCALE: NTS
PROJ. NO.: 230012
DESIGNED BY: LDS
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DRAWING NO. C-5

SANITARY SEWER DESIGN AND CONSTRUCTION NOTES

- THE CITY'S PUBLIC UTILITIES DEPARTMENT (XXX-XXXX) SHALL BE GIVEN A MINIMUM OF 48 HOURS ADVANCE NOTICE (NOT INCLUDING HOLIDAYS OR WEEKENDS) PRIOR TO BEGINNING ANY SANITARY SEWER CONSTRUCTION.
- ALL GRAVITY SANITARY SEWER MAIN LINES SHALL BE 8" DIAMETER MINIMUM. COMMERCIAL SERVICE LATERALS WITH MULTIPLE CONNECTIONS SHALL BE GREEN 6" DIA. OR LARGER. ALL SINGLE FAMILY RESIDENTIAL SERVICE LATERALS SHALL BE 4" - SINGLE SERVICES.
- ALL GRAVITY SANITARY SEWER LINES SHALL BE GREEN PVC SDR 26, ASTM D-3034, IN PLACES WHERE A MINIMUM COVER OF 4.0' CANNOT BE MAINTAINED, AWWA C-900 OR C-905 GREEN PVC DR-26, CLASS 100 OR CONCRETE ENCASMENT SHALL BE USED. WATER LINES, RECLAIMED LINES, AND STORM DRAINAGE CROSSINGS SHALL ALSO FOLLOW THE CONCRETE ENCASMENT REQUIREMENT PER THESE STANDARDS AND AS PER REGULATORY REQUIREMENTS.
- MINIMUM GRAVITY SANITARY SEWER SLOPES ARE AS FOLLOWS:
 - 8" PIPE 0.40%
 - 10" PIPE 0.30%
 - 12" PIPE 0.22%
- GRAVITY SANITARY SEWER LINES SHALL BE INSTALLED WHENEVER POSSIBLE UNDER PAVED AREAS WITHIN PUBLIC RIGHTS-OF-WAY. UTILITY EASEMENTS SHALL BE PROVIDED WHENEVER PUBLICLY-OWNED SEWER LINES ARE CONSTRUCTED OUTSIDE OF A PUBLIC RIGHT-OF-WAY.
- GRAVITY SANITARY SEWER LINE CONSTRUCTION SHALL BE ACCOMPLISHED BY THE USE OF A LASER INSTRUMENT UNLESS ANOTHER METHOD IS PREVIOUSLY APPROVED BY THE CITY.
- THE CONTRACTOR SHALL AT ALL TIMES, DURING PIPE LAYING OPERATIONS, DETERMINE THE GROUND SUFFICIENTLY TO KEEP THE GROUNDWATER ELEVATION A MINIMUM OF 6" BELOW THE PIPE BEING LAID WITHIN THE AREA OF THE TRENCH.
- ALL PIPES SHALL BE LAID ON A FIRM FOUNDATION. SOFT OR SPONGY BEDDING FOR PIPES IS NOT ACCEPTABLE. ANY UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED WITH A DRY, COMPACTED, GRANULAR MATERIAL SATISFACTORY TO THE CITY.
- ON ALL EXCAVATION AND BACKFILLING THE CONTRACTOR SHALL PROVIDE ADEQUATE SHEETING AND BRACING IN ORDER TO PROVIDE FOR THE SAFETY OF WORKMEN, AS WELL AS REPRESENTATIVES OF THE CITY, THE DESIGN ENGINEER, AND THE DEVELOPER.
- ALL TRENCHES SHALL BE BACKFILLED WITH ACCEPTABLE MATERIAL AND COMPACTED TO THE SPECIFIED MINIMUM COMPACTION (95% IN UNPAVED AREAS AND 98% IN PAVED AREAS) OF THE OPTIMUM DENSITY OF THAT MATERIAL BASED ON THE AASHTO T-180 MODIFIED PROCTOR TEST.
- THE CONTRACTOR SHALL EMPLOY AN INDEPENDENT TESTING LABORATORY AT HIS OWN EXPENSE TO INSURE THAT COMPACTION OF ALL FILL MATERIAL IS COMPLETED PROPERLY. TESTS SHALL BE DONE ONE FOOT ABOVE THE PIPE AND THEN AT ONE FOOT VERTICAL INTERVALS UNTIL FINAL GRADE IS REACHED. TESTING SHALL BE COMPLETED AND TEST DOCUMENTS SUBMITTED TO THE CITY AT A MINIMUM FREQUENCY OF ONE SET OF TESTS BETWEEN EACH MANHOLE AND ONE ADDITIONAL SET OF TESTS AT EVERY MANHOLE. IDENTIFICATION OF TEST LOCATIONS SHALL BE CLEARLY INDICATED ON TEST REPORTS. TEST RESULTS SHALL BE FORWARDED PROMPTLY TO THE CITY'S DESIGNATED SITE INSPECTOR.
- THE CONTRACTOR SHALL INSTALL A METALLIZED FOIL LOCATOR TAPE, OR SIMILAR DEVICE AS MAY BE APPROVED BY THE CITY FOR THE FULL LENGTH OF ALL PVC SEWAGE FORCE MAINS. THIS PIPE LOCATOR AND SHALL BE INSTALLED BETWEEN 15' AND BELOW FINISHED GRADE OR AS DIRECTED BY THE MANUFACTURER. TAPE SHALL BE COLOR CODED GREEN FOR SANITARY SEWER AND FORCE MAIN.




STANDARD CONSTRUCTION DETAIL
SANITARY SEWER DESIGN AND CONSTRUCTION NOTES

FILE NAME:
CB_S22.DWG
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SANITARY SEWER DESIGN AND CONSTRUCTION NOTES (CONT.)

- ALL TESTING REQUIRED BY THE CITY SHALL BE PAID FOR BY THE CONTRACTOR / DEVELOPER.
- ALL LOCAL COLLECTION SANITARY SEWER MANHOLES SHALL BE PRECAST WITH A MINIMUM INSIDE DIAMETER OF 4 FEET.
- STANDARD MANHOLES SHALL BE LOCATED AT INTERVALS NOT EXCEEDING 350 FEET.
- ALL SEWER FITTINGS TO BE "HARCO" OR CITY APPROVED EQUAL.
- MANHOLE RIMS SHALL MATCH FLUSH WITH THE FINISH GRADE ELEVATION IN PAVED AREAS AND A MINIMUM OF 0.2 FEET AND MAXIMUM OF 0.5 FEET ABOVE GRADE GENERALLY IN UNPAVED AREAS.
- THE CONTRACTOR SHALL CONSTRUCT SANITARY SEWER MANHOLES IN SUCH A WAY THAT SEWER LINES DO NOT INTERSECT SEALED JOINTS BETWEEN SECTIONS OF THE MANHOLE.
- RUBBER BOOTS AND STAINLESS STEEL BANDS SHALL BE UTILIZED IN THE CONNECTION OF THE SEWER MAIN TO THE MANHOLES (SEE STANDARD MANHOLE AND BOOT DETAIL).
- INDIVIDUAL SANITARY SERVICE CONNECTORS ON NEW CONSTRUCTION SHALL NOT BE CONNECTED DIRECTLY INTO MANHOLES, AND MUST BE CONNECTED TO SEWER MAIN LINES BY USE OF WYE CONNECTIONS, UNLESS OTHERWISE BE APPROVED BY THE CITY.
- FOR SINGLE FAMILY HOMES, SINGLE FOUR INCH SEWER SERVICES LATERALS SHALL BE CONSTRUCTED AT EACH LOT OR UNIT AND LOCATED ON THE DOWNSTREAM SIDE OF THE LOT CENTER LINE. THESE SERVICES SHALL BE EXTENDED 4 FEET ABOVE GROUND AT THE PROPERTY LINE WITH A PVC RISER AND PLUGS BEING EASILY VISIBLE FROM THE ROAD. RUBBER SEAL FITTINGS SHALL BE USED ON ALL LINES. NO GLED JOINTS ARE PERMITTED ON LATERALS.
- FOR MULTI-FAMILY AND COMMERCIAL SITES, SIX INCH MINIMUM SEWER SERVICES AND CLEANOUTS SHALL BE PROVIDED AS APPROVED BY THE CITY.
- SANITARY SEWER LIFT STATIONS AND FORCE MAINS, SIZE, MATERIAL, AND DESIGN SHALL BE APPROVED BY THE CITY. LIFT STATIONS SHALL BE CONSTRUCTED WITH A MINIMUM WET WELL INTERIOR DIAMETER OF 5 FEET. FORCE MAINS SHALL BE A MINIMUM 6 INCH DIAMETER.
- IT SHALL BE THE RESPONSIBILITY OF THE DESIGN ENGINEER TO PREPARE AND SUBMIT FLOTATION CALCULATIONS TO SIZE THE BASE OF THE WET WELL, AND ANY MANHOLES AS NECESSARY BY THE CITY.
- SANITARY SEWER DROP MANHOLES SHALL ONLY BE USED UNDER SPECIAL CONDITIONS AS APPROVED BY THE CITY. DROPS LESS THAN 2.0' SHALL NOT BE ALLOWED.
- ALL SANITARY SEWER MANHOLE COVERS SHALL HAVE THE WORDS "COCOA BEACH, FLORIDA SANITARY SEWER" CAST INTO THEM.
- ALL SANITARY SEWER FORCE MAINS, INCLUDING FITTINGS, SHALL BE PVC AWWA C-900, OR C-905 (COLOR "GREEN") (PRESSURE FITTINGS, PRESSURE CLASS 150 OR C-907) FITTINGS SHALL BE HARCO PVC GASKETED FITTINGS, MULTI-FITTINGS (OR APPROVED EQUAL.) THE FORCE MAIN MINIMUM DEPTH OF COVER SHALL BE 36".
- ALL SANITARY SEWER FORCE MAINS SHALL USE A THRUST RESTRAINT JOINT METHOD IN COMPLIANCE WITH THE DUCTILE IRON PIPE RESEARCH ASSOCIATION GUIDELINES MODIFIED TO ACCOMMODATE PVC PIPE BY FOLLOWING THE RECOMMENDED INCREASE IN RESTRAINT LENGTH CORRESPONDING TO THE INSTALLATION OF POLYETHYLENE WRAP. IN NO INSTANCE SHALL THRUST BLOCKS BE PERMITTED.

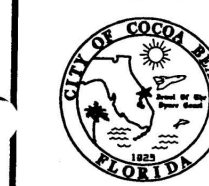


STANDARD CONSTRUCTION DETAIL
SANITARY SEWER DESIGN AND CONSTRUCTION NOTES

FILE NAME:
CB_S23.DWG
DETAIL REF:
S-23

SANITARY SEWER DESIGN AND CONSTRUCTION NOTES (CONT.)

- SANITARY SEWER MANHOLES WHICH HAVE SEWER FORCE MAINS DISCHARGING DIRECTLY INTO THEM SHALL BE FIBERGLASS OR POLY-ETHYLENE LINED. RETRO-FITTING OF MANHOLES WITH LINERS SHALL BE REQUIRED WHEN NEW CONNECTIONS SUCH AS THIS ARE MADE. FIBERGLASS SHALL BE A MINIMUM 1/2" THICKNESS UNLESS APPROVED OTHERWISE BY THE CITY. OTHER TYPES OF LINING METHODS AND MATERIALS MAY BE CONSIDERED ON A CASE BY CASE BASIS. UNDER SPECIAL CIRCUMSTANCES WHERE HYDROGEN SULFIDE IS A MAJOR CONCERN MANHOLES UPSTREAM AND/OR DOWNSTREAM OF THE FORCE MAIN TIE-IN OR WET WELL MAY ALSO BE REQUIRED TO HAVE LINERS INSTALLED.
- THE CITY OF COCOA BEACH RESERVES THE RIGHT TO REQUIRE THE DEVELOPER TO PERFORM VACUUM TESTING OF ALL SANITARY MANHOLES, AIR TEST SEWER MAINS, AND REQUIRES THAT ALL SANITARY SEWER MAIN LINES BE TESTED PRIOR TO FINAL ACCEPTANCE. LATERALS SHALL BE TESTED UPON DEMAND BY THE CITY PRIOR TO FINAL ACCEPTANCE WHEN IT IS SUSPECTED THAT A PROBLEM EXISTS.
- ALL SEWER MAINS, PRIOR TO ACCEPTANCE BY THE CITY AND PRIOR TO ANY FINAL PAVING OPERATIONS, SHALL BE TELEVIEWED USING A "PAN AND TILT" CAMERA BY A CITY APPROVED CONTRACTOR. THE VIDEO SHALL BE NON-STOP WITH AUDIO DESCRIBING WHAT IS BEING REVIEWED. WRITTEN VIDEO LOGS DESCRIBING THE CONDITION OF THE LINES SHALL ACCOMPANY THE TAPE SUBMISSION TO THE CITY PRIOR TO COMMENCING ANY INSTALLATION OF ASPHALT OR CONCRETE PAVEMENT. RE-TAPING MAY BE REQUIRED BY THE CITY IF ADDITIONAL CLEARING OR CORRECTIVE ACTIONS ARE NECESSARY.
- ALL MANHOLES CONSTRUCTED IN SIDE YARDS, BACKYARDS, AND EASEMENTS OUTSIDE OF THE RIGHT-OF-WAY SHALL BE OUTFITTED WITH FIBERGLASS LINERS IN COMPLIANCE WITH ASTM-3753 OR OTHER TYPES OF LINERS APPROVED BY THE CITY. IN ADDITION THE CITY MAY REQUIRE LINERS TO BE INSTALLED IN OTHER AREAS WHERE THE PUBLIC UTILITIES DEPARTMENT BELIEVES THE NEED IS JUSTIFIED SUCH AS IMMEDIATELY UPSTREAM OF FORCE MAINS CONNECTING TO GRAVITY MAINS.
- ALL SEWER LINES WHICH ARE CONSTRUCTED OUTSIDE OF PUBLIC RIGHTS-OF-WAY WITHIN SIDE YARDS, BACKYARDS, AND OTHER POORLY ACCESSIBLE AREAS SHALL BE CONSTRUCTED OF C-900 PVC. ABSOLUTELY NO USE OF PLASTIC STYRENE FITTINGS SHALL BE ALLOWED.
- SEWER LATERAL LOCATIONS SHALL BE MARKED ALONG THE OUTSIDE OF THE CURB WITH A SAW CUT "V", OR BY A METAL TAB SET INTO THE PAVEMENT.
- CONTEC A-2000 PVC PIPE SHALL NOT BE ALLOWED FOR USE.
- EZ-WRAP PLASTIC, AS MANUFACTURED BY PRESS SEAL GASKET CORPORATION, SHALL BE USED ON THE OUTSIDE OF ALL MANHOLE AND HETWELL JOINTS. APPLY ONE LAYER OF 9" WRAP CENTERED ON EACH JOINT. A CITY INSPECTOR SHALL PERSONALLY INSPECT ALL JOINT SEALS PRIOR TO BACKFILLING OPERATIONS.
- ALL PROPOSED SEWER FORCE MAINS SHALL BE FLUSHED, PRESSURE TESTED AND CLEARED FOR SERVICE IN ACCORDANCE WITH THE LATEST AWWA STANDARDS AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY THE CITY'S DESIGNATED SITE INSPECTOR WHO SHALL COORDINATE WITH CITY PERSONNEL AT THE WATER OR WASTEWATER TREATMENT PLANT (AS APPROPRIATE) AT LEAST 24 HOURS PRIOR TO BEGINNING A FULL-DIAMETER FLUSH OF AVAILABILITY).
- THE CONTRACTOR SHALL BE REQUIRED TO PIG ALL FORCE MAINS IN EXCESS OF 6" IN DIAMETER AND PRIMARY TRANSMISSION MAINS LOCATED ON COLLECTOR AND ARTERIAL ROADWAYS. LAUNCHING AND EXTRACTION POINTS SHALL BE DETERMINED BY THE CONTRACTOR.

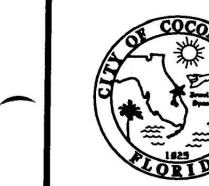


STANDARD CONSTRUCTION DETAIL
SANITARY SEWER DESIGN AND CONSTRUCTION NOTES

FILE NAME:
CB_S24.DWG
DETAIL REF:
S-24

SANITARY SEWER DESIGN AND CONSTRUCTION NOTES (CONT.)

- AS A GENERAL RULE, THE NUMBER OF JOINTS SHALL BE LIMITED WHENEVER POSSIBLE. IN SPECIAL CASES WHERE A POINT REPAIR TO AN 8" TO 12" PVC SEWER MAIN IS REQUIRED, THE PROPER RUBBER WRAP AROUND SLEEVE SUCH AS A JOM-210 OVERSIZED DUCTILE IRON COUPLING OR AN APPROVED EQUAL MAY BE ALLOWED BY SPECIAL APPROVAL BY THE CITY.
- ALL IN-LINE SANITARY SEWER FORCE MAIN VALVES SHALL BE RESILIENT SEAT (AWWA C-509) VALVES FEATURING A LINED DUCTILE IRON BODY.
- ALL TAPPING OF MAINS AND CORING OF MANHOLES SHALL BE PERFORMED BY THE CITY AND BILLED IN ACCORDANCE WITH THE ADOPTED FEE RESOLUTION. SCHEDULING OF THESE CONNECTIONS SHALL REQUIRE A MINIMUM 48 HOUR NOTIFICATION (MEASURED ON NORMAL WORK DAYS) DIRECTED TO THE CITY'S DESIGNATED SITE INSPECTOR WHO SHALL COORDINATE THE WORK DIRECTLY WITH THE PUBLIC UTILITIES DEPARTMENT. SUBSEQUENTLY, THE CONNECTION SHALL BE SCHEDULED TO COMMENCE BETWEEN 8:00 A.M. AND NOON ON THE APPROPRIATE DAY ESTABLISHED BY CITY.
- WITH RESPECT TO TIE-IN CONNECTIONS AND CORING OPERATIONS, THE CITY RESERVES THE RIGHT TO REQUIRE CONNECTIONS TO BE PERFORMED DURING PERIODS OF LOW FLOW (MIDNIGHT TO 6:00 A.M.) IN ORDER TO MINIMIZE SERVICE DISRUPTION TO EXISTING CUSTOMERS.
- ALL WORK PERFORMED UPON SANITARY SEWER FACILITIES OWNED OR PROPOSED TO BE OWNED BY THE CITY SHALL BE CONSTRUCTED BY AN UNDERGROUND UTILITY CONTRACTOR, OR LICENSED GENERAL CONTRACTOR, WHO IS LICENSED IN THE STATE OF FLORIDA AND REGISTERED WITH THE CITY.
- UPON CONSTRUCTION COMPLETION AND ACCEPTANCE OF THE SYSTEM, IT SHALL BE THE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THAT THE SYSTEM IS PROPERLY CERTIFIED AND ACCEPTED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND AS-BUILTS ARE PROVIDED TO THE CITY PRIOR TO ANY USE OF THE SYSTEM.
- FOR CONSTRUCTION PURPOSES, THE PLANS SHALL DIMENSION THE LOCATION OF ALL FORCE MAINS MEASURED FROM THE BACK OF CURB (OR EDGE OF PAVEMENT, IF NO CURB EXISTS).
- ALL HOPE PIPE INSTALLED FOR SEWAGE FORCE MAINS SHALL BE SDR 11 UNLESS SPECIFICALLY NOTED OTHERWISE. THE HOPE PIPE SHALL BE SIZED TO MATCH THE EXTERNAL DIAMETER OF THE PVC OR DIP TO WHICH IT IS ATTACHED.
- LANDSCAPE PLANS SHALL CLEARLY DEPICT THE DESIGN LOCATION OF PLANTINGS RELATIVE TO THE LOCATION OF PUBLIC UTILITIES AND STORMWATER INFRASTRUCTURE IN ORDER TO EVALUATE POTENTIAL CONFLICTS.



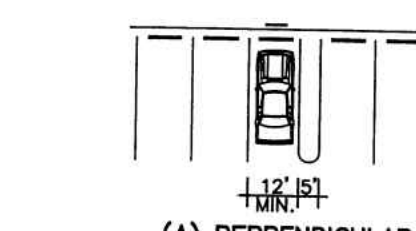
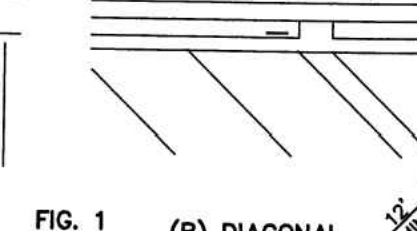
STANDARD CONSTRUCTION DETAIL
SANITARY SEWER DESIGN AND CONSTRUCTION NOTES


FILE NAME:
CB_S25.DWG
DETAIL REF:
S-25

HANDICAP ACCESSIBLE PARKING SPACES SHALL BE PROVIDED IN ACCORDANCE WITH CURRENT FLORIDA STATUTES, INCLUDING THE FOLLOWING DETAILS:

- ANY COMMERCIAL REAL ESTATE PROPERTY OWNER OFFERING PARKING FOR THE GENERAL PUBLIC SHALL PROVIDE SPECIALLY DESIGNED AND MARKED MOTOR VEHICLE PARKING SPACES FOR THE EXCLUSIVE USE OF PHYSICALLY DISABLED PERSONS WHO HAVE BEEN ISSUED PARKING PERMITS PURSUANT TO STATE LAW.
- DIAGONAL OR PERPENDICULAR PARKING SPACES SHALL BE A MINIMUM OF 12 FEET WIDE (SEE FIGURE 1).
- PARALLEL PARKING SPACES SHALL BE LOCATED EITHER AT THE BEGINNING OR END OF A BLOCK OR ADJACENT TO ALLEY ENTRANCES (SEE FIGURE 2). CURBS ADJACENT TO SUCH SPACES SHALL BE OF A HEIGHT WHICH WILL NOT INTERFERE WITH THE OPENING AND CLOSING OF MOTOR VEHICLE DOORS.
- EACH SUCH PARKING SPACE SHALL BE CONSPICUOUSLY OUTLINED IN BLUE PAINT AND SHALL BE POSTED AND MAINTAINED WITH A PERMANENT, ABOVE-GRADE SIGN BEARING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND THE CAPTION PARKING BY DISABLED PERMIT ONLY, AND AN ADDITIONAL SIGN STATING THE PENALTY FOR ILLEGAL USE OF THE SPACE (SEE FIGURE 2). SUCH SIGNS SHALL NOT BE OBLSCURED BY A VEHICLE PARKED IN THE SPACE. ALL HANDICAP ACCESSIBLE PARKING MUST BE SIGNED AND MARKED IN ACCORDANCE WITH THE STANDARDS ADOPTED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION.
- ALL SPACES SHALL HAVE A SIXTY INCH (60") WIDE ADJACENT ACCESS AISLE (SEE FIGURE 2). PARKING ACCESS AISLES SHALL BE PART OF THE ACCESSIBLE ROUTE TO THE BUILDING OR FACILITY ENTRANCE. TWO ACCESSIBLE PARKING SPACES MAY SHARE A COMMON ACCESS AISLE. PARKED VEHICLE OVERHANGS SHALL NOT REDUCE THE CLEAR WIDTH OF AN ACCESSIBLE CIRCULATION ROUTE.
- ALL SPACES SHALL HAVE AN ACCESSIBLE CURB-RAMP OR CURB-CUT TO ALLOW ACCESS TO THE BUILDING SERVED. IT SHALL BE LOCATED SO THAT USERS WILL NOT BE COMPELLED TO WHEEL BEHIND PARKED VEHICLES.
- THE MINIMUM NUMBER OF SUCH PARKING SPACES SHALL COMPLY WITH THE FOLLOWING TABLE:

TOTAL PARKING IN LOT	REQUIRED NUMBER OF ACCESSIBLE SPACES
UP TO 25.....	1
26 TO 50.....	2
51 TO 75.....	3
76 TO 100.....	4
101 TO 150.....	5
151 TO 200.....	6
201 TO 300.....	7
301 TO 400.....	8
401 TO 500.....	9
501 TO 1000.....	2% OF TOTAL
OVER 1000.....	20 PLUS 1 FOR EACH 100 OVER 1000

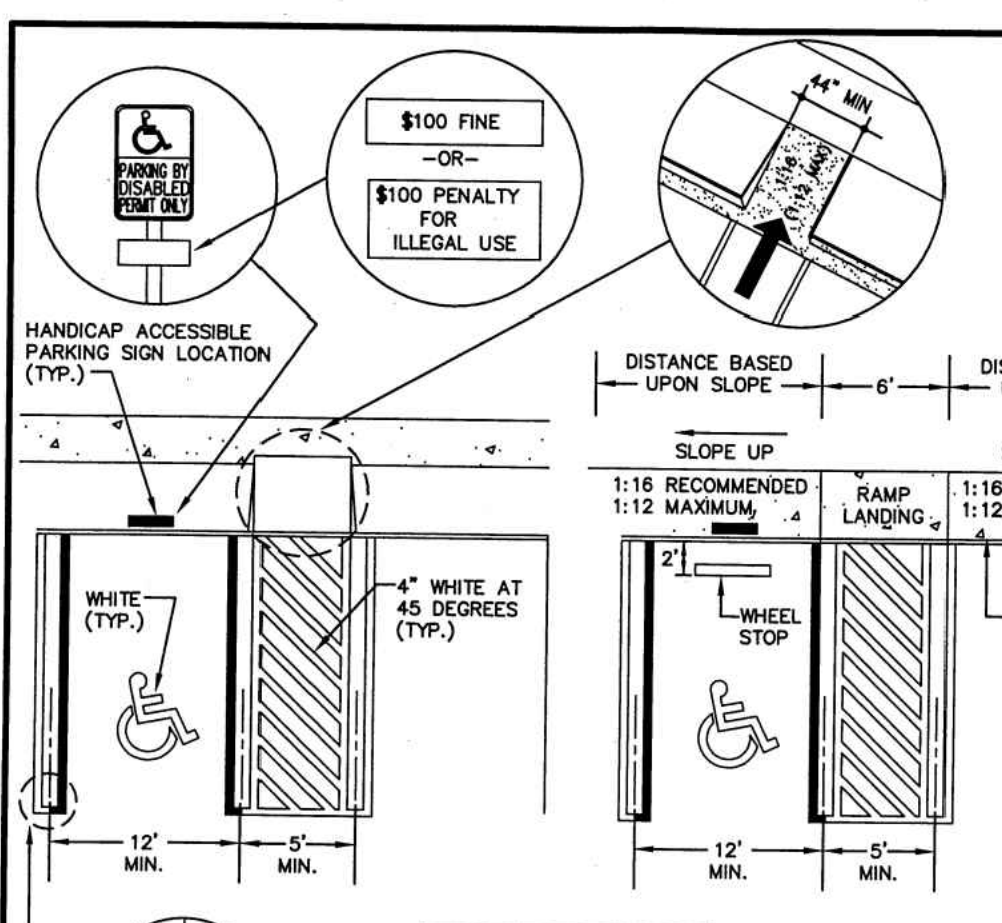





STANDARD CONSTRUCTION DETAIL
HANDICAP ACCESSIBLE PARKING SPACES

FILE NAME:
CB_MB.DWG
DETAIL REF:
M-8

HANDICAP ACCESSIBLE PARKING SIGN LOCATION (TYP.)



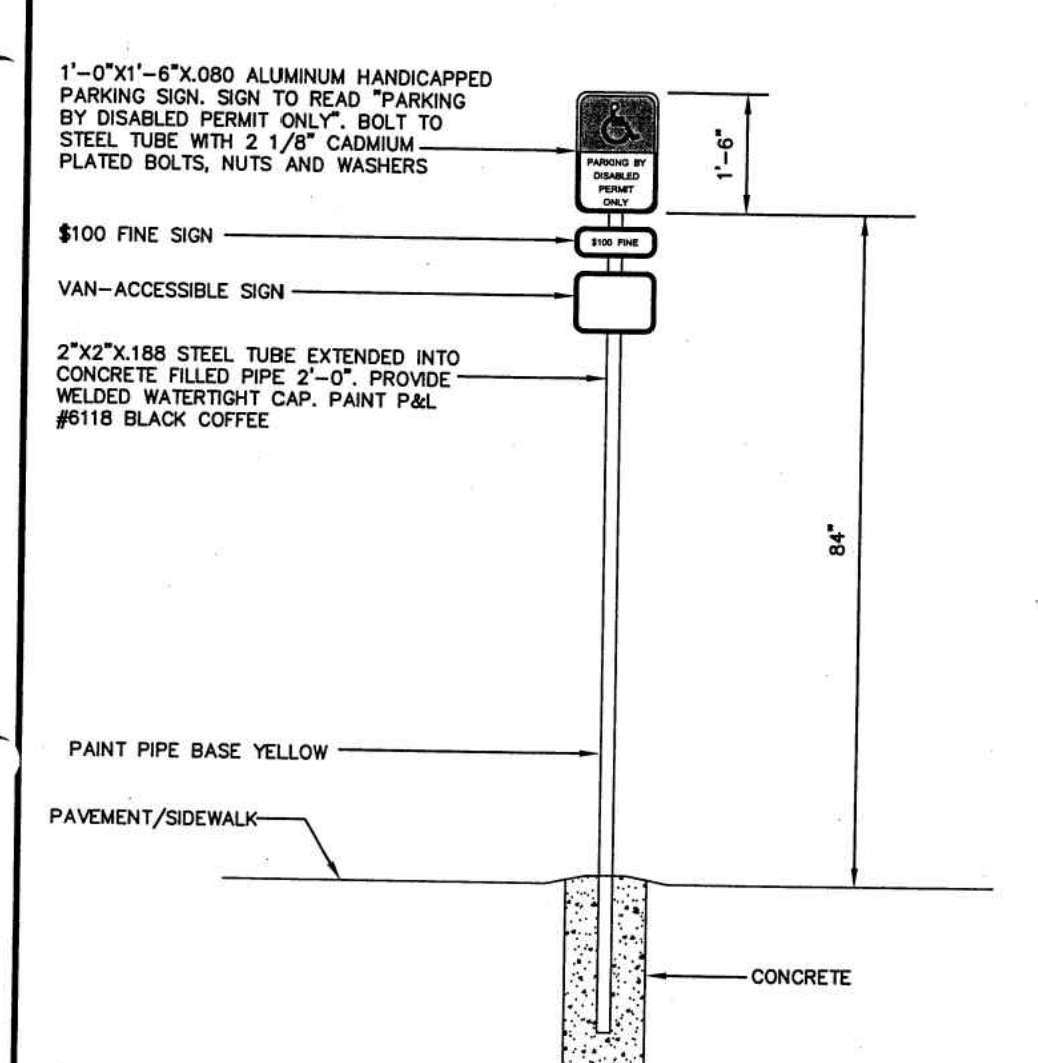
ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 (2%) IN ALL DIRECTIONS

NOTE:

- WHEN HEADER CURB IS USED IN LIEU OF WHEEL STOPS, SIDEWALK ABUTTING CURB MUST BE WIDENED BY 18" SO THAT THE TOTAL SIDEWALK WIDTH IS 62", ALLOWING FOR 44" MINIMUM CLEAR ACCESSIBLE ROUTE.
- FOR COMPLETE DETAIL OF HANDICAPPED SIGN, REFER TO DETAIL M-10.


FILE NAME:
CB_M9.DWG
DETAIL REF:
M-9

1"-0"X1'-6"X0.080 ALUMINUM HANDICAPPED PARKING SIGN TO READ "PARKING BY DISABLED PERMIT ONLY", BOLT TO STEEL TUBE WITH 2 1/2" CADMIUM PLATED BOLTS, NUTS AND WASHERS



NOTE:

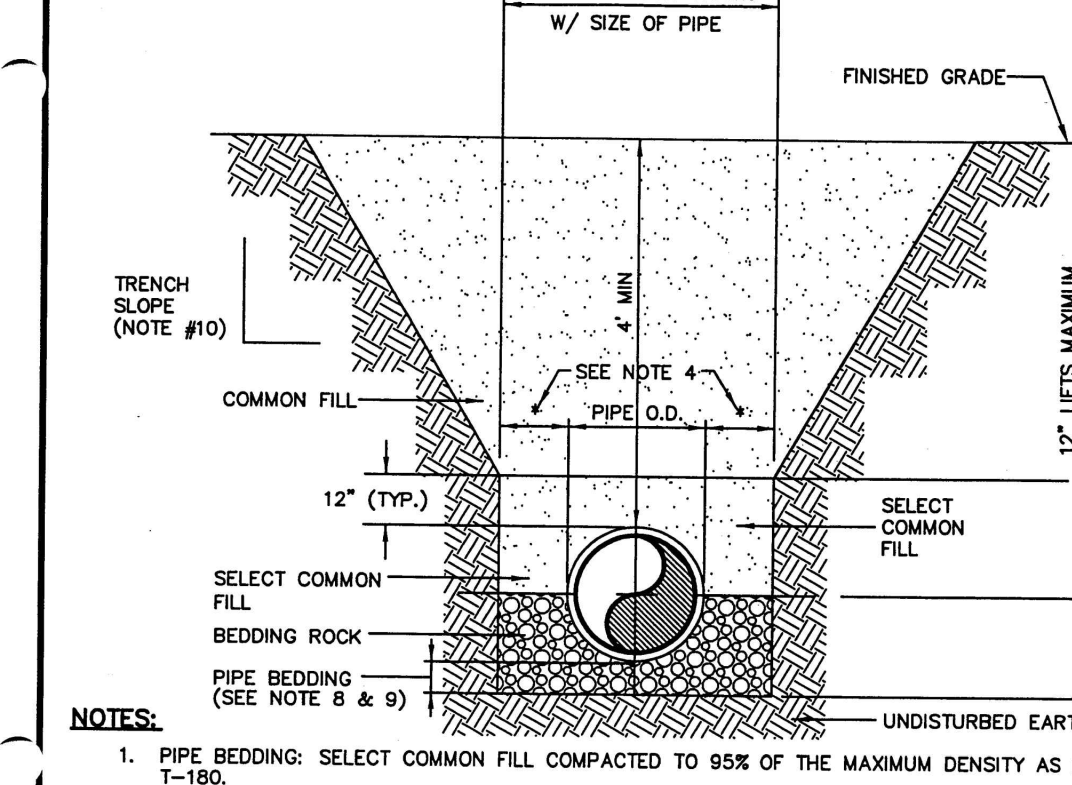
- HANDICAPPED PARKING SIGN SHALL CONFORM WITH CURRENT STATE AND LOCAL AND FEDERAL REGULATIONS.
- ALL SIGNS SHALL BE DESIGNED TO WITHSTAND 100 M.P.H. WINDLOAD.



STANDARD CONSTRUCTION DETAIL
HANDICAP SIGN

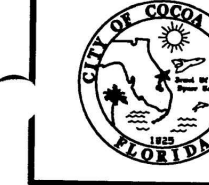
FILE NAME:
CB_M10.DWG
DETAIL REF:
M-10

TRENCH WIDTH VARIES W/ SIZE OF PIPE



NOTES:

- PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
- TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180. (98% DENSITY REQUIRED UNDER PAVEMENT, DRIVEWAYS AND STRUCTURES.)
- USE TYPE "A" BEDDING TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE CITY.
- (*) 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" AND LARGER.
- WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
- ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF FLOW.
- REFER TO SECTION 32.5 OF THE MANUAL FOR SHEETING AND BRACING IN EXCAVATIONS.
- GRAVITY SEWERS SHALL UTILIZE TYPE "A" BEDDING, WHERE UNSUITABLE MATERIAL EXISTS. BEDDING DEPTH SHALL BE 4" MINIMUM FOR PIPE DIAMETER LESS THAN 15", AND 6" MINIMUM FOR PIPE DIAMETER 16" AND LARGER.
- DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. CITY SHALL DETERMINE IN THE FIELD REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION.
- REFER TO OSHA REGS. FOR SLOPING, SHEETING AND BRACING IN EXCAVATIONS.



STANDARD CONSTRUCTION DETAIL
TYPE "A" BEDDING AND TRENCH DETAIL (SPECIAL GRAVITY SEWER INSTALLATIONS)

FILE NAME:
CB_S27.DWG
DETAIL REF:
S-27

REVISION					
DATE					
REV#					

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Melbourne, FL 32935
Tel: 321.253.1211
www.cegeengineering.com
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AV-SETELA LLC
101 N. ATLANTIC AVE., COCOA BEACH, FL 32931
DRAWING TITLE
CITY OF COCOA BEACH DETAILS

JAKE T. WISE, PE
PE # 55465

DATE: 06/28/23

SCALE: NTS

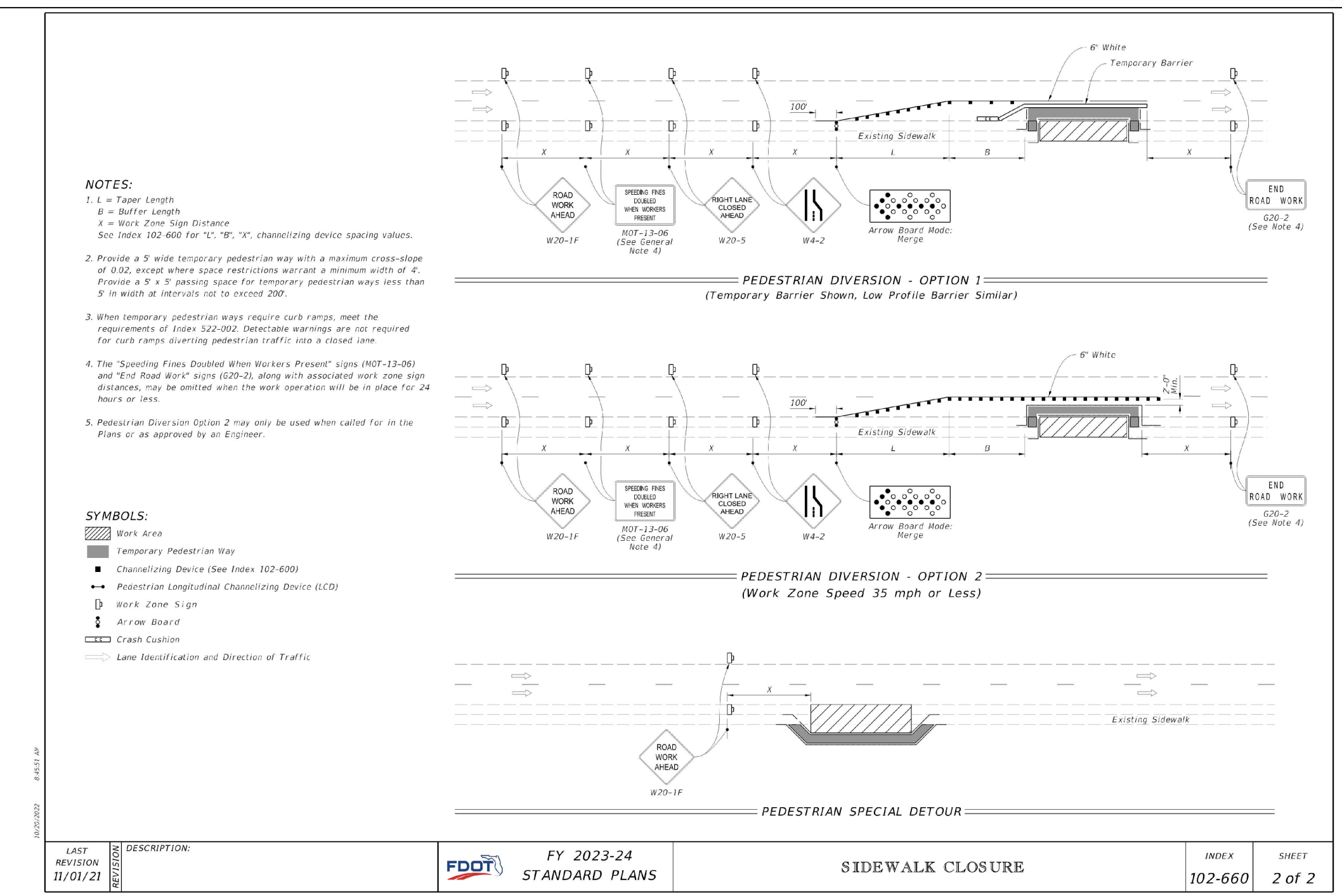
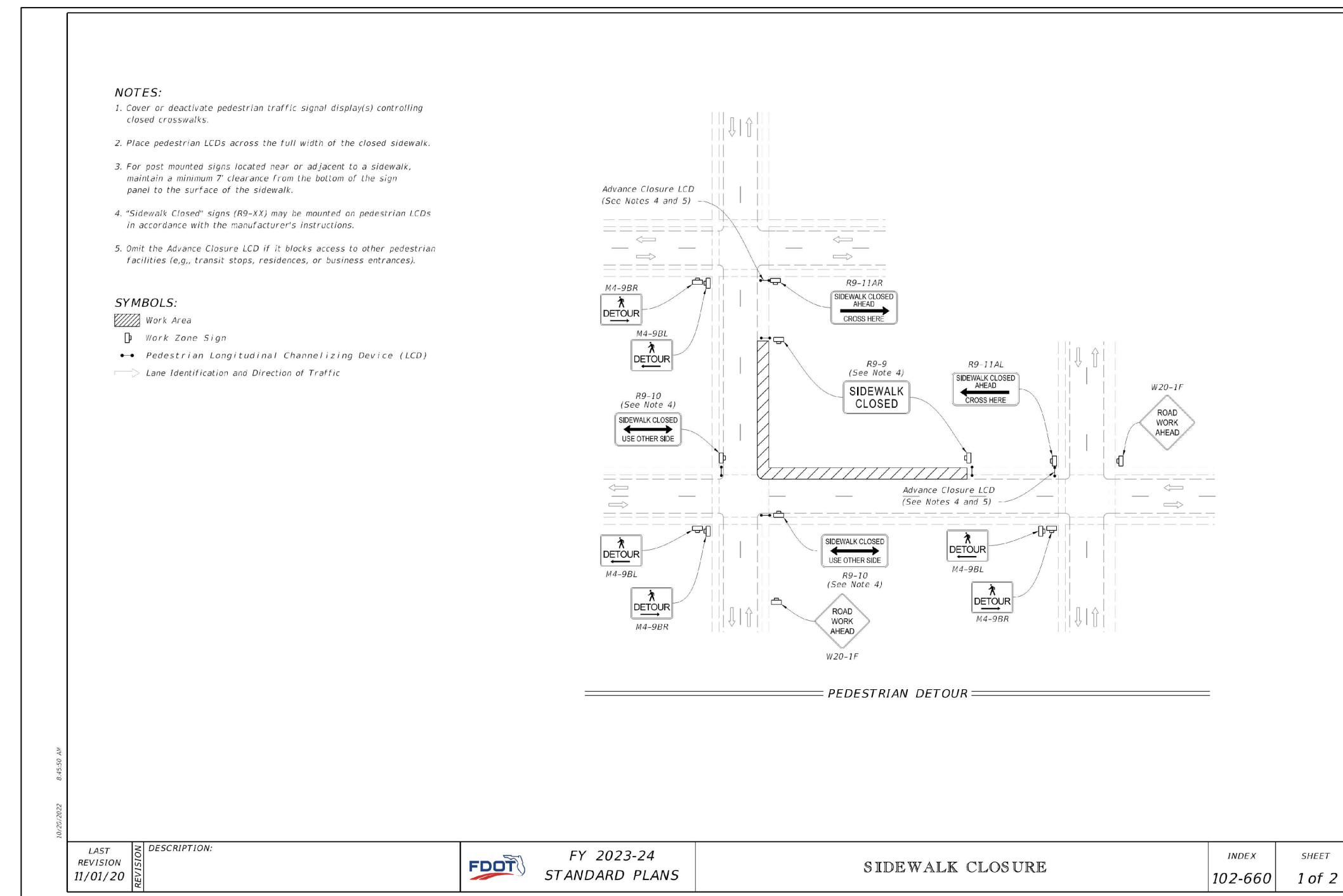
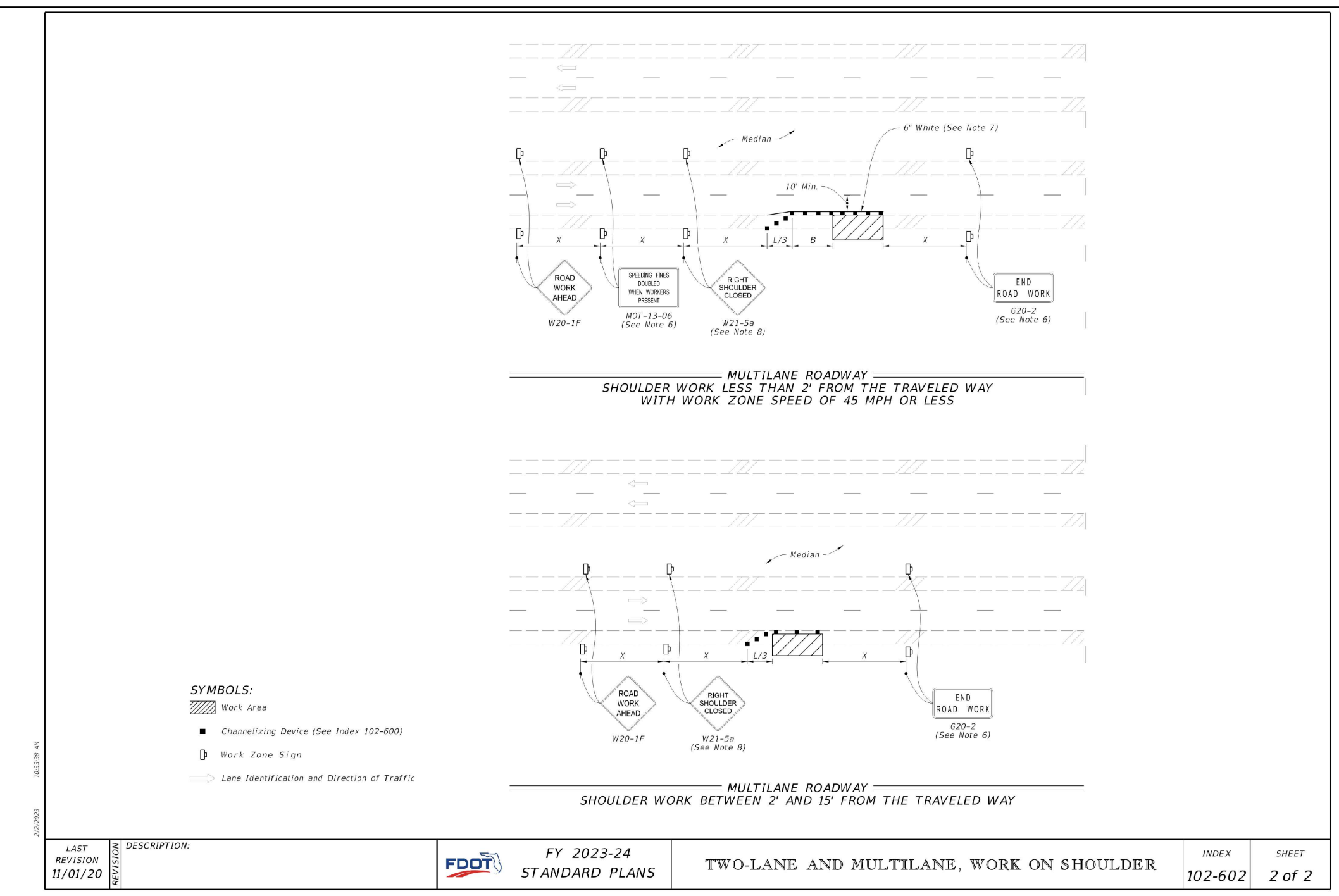
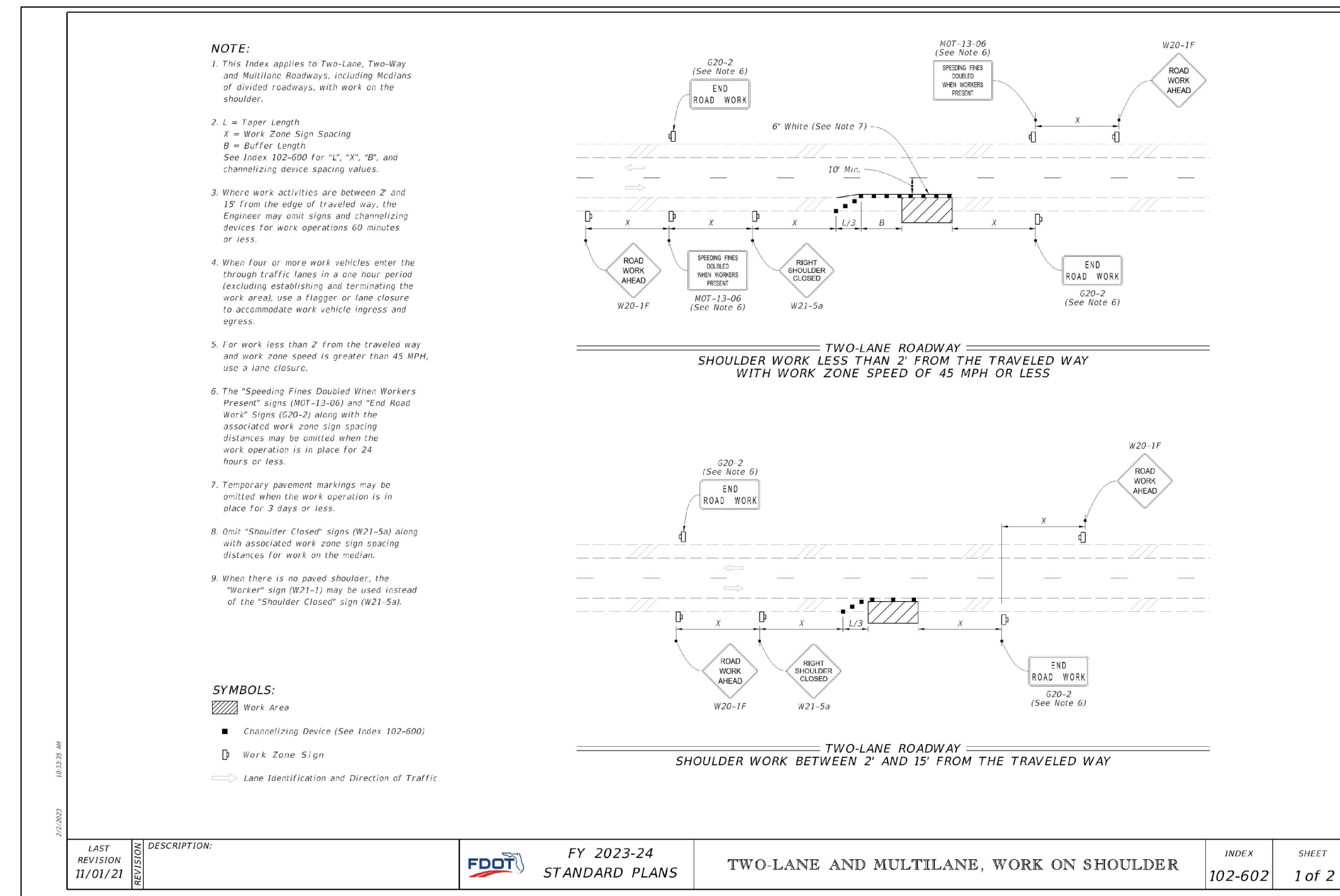
PROJ. NO.: 230012

DESIGNED BY: LDS

DRAWN BY: WGM

CHECKED BY: JTW

DRAWING NO. **C-7**



REVISION	DATE	BY	APP

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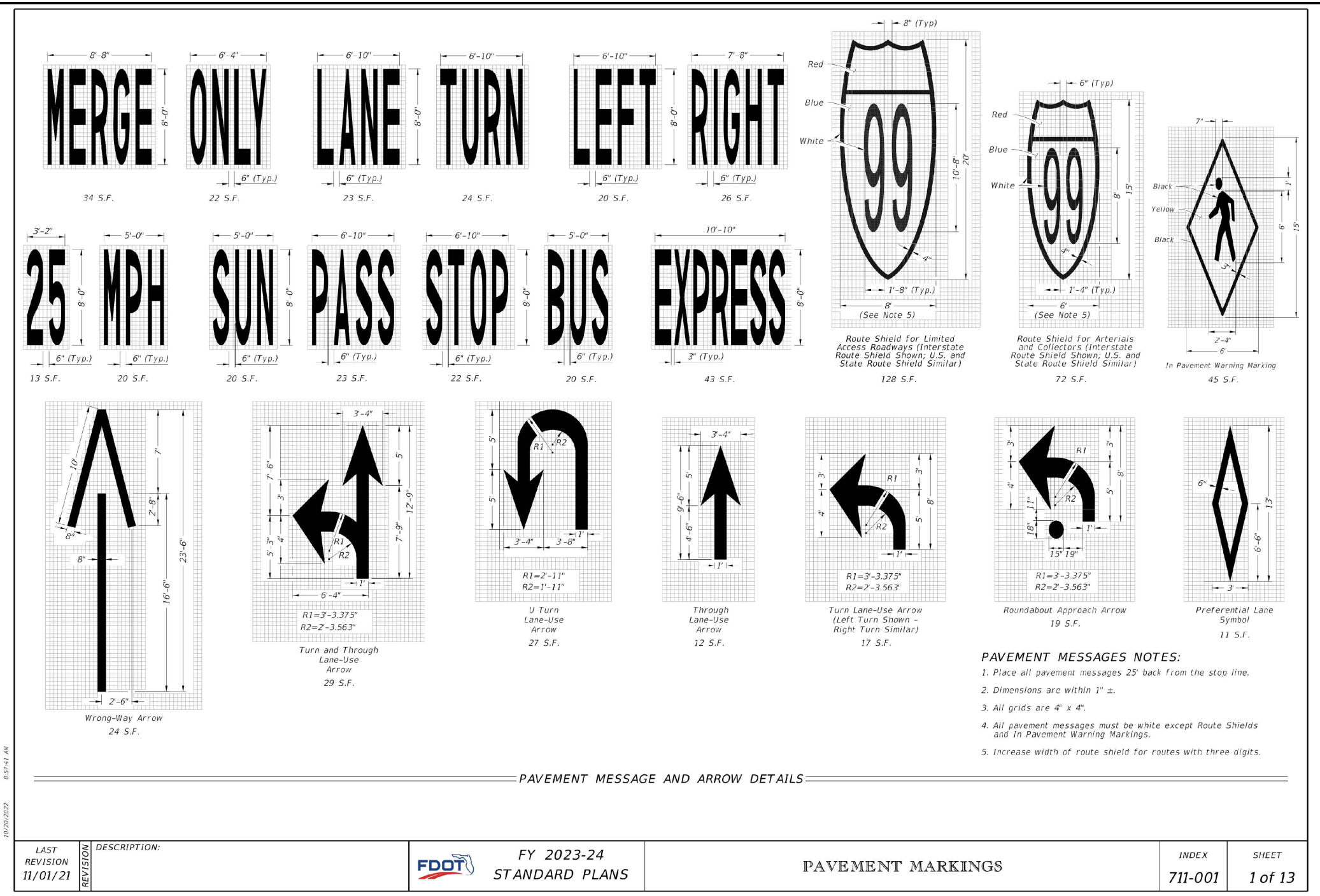
CONSTRUCTION ENGINEERING GROUP
Consulting Engineers

COSMIK TIKI

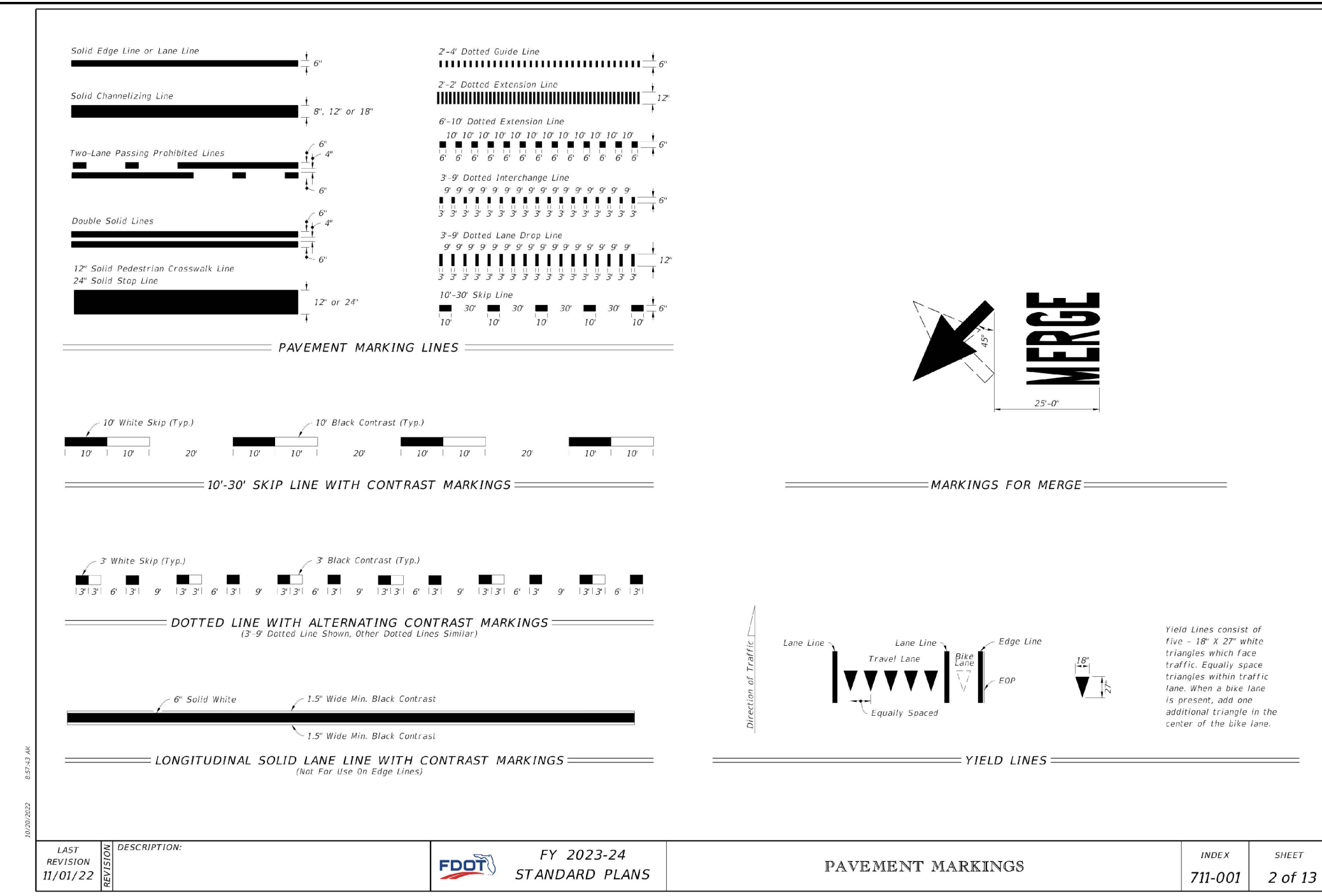
AVESTELA LLC
101 N. ATLANTIC AVE., COCOA BEACH, FL 32931
DRAWING TITLE
FDOT MAINTENANCE OF TRAFFIC

JAKE T. WISE, PE
PE # 55405

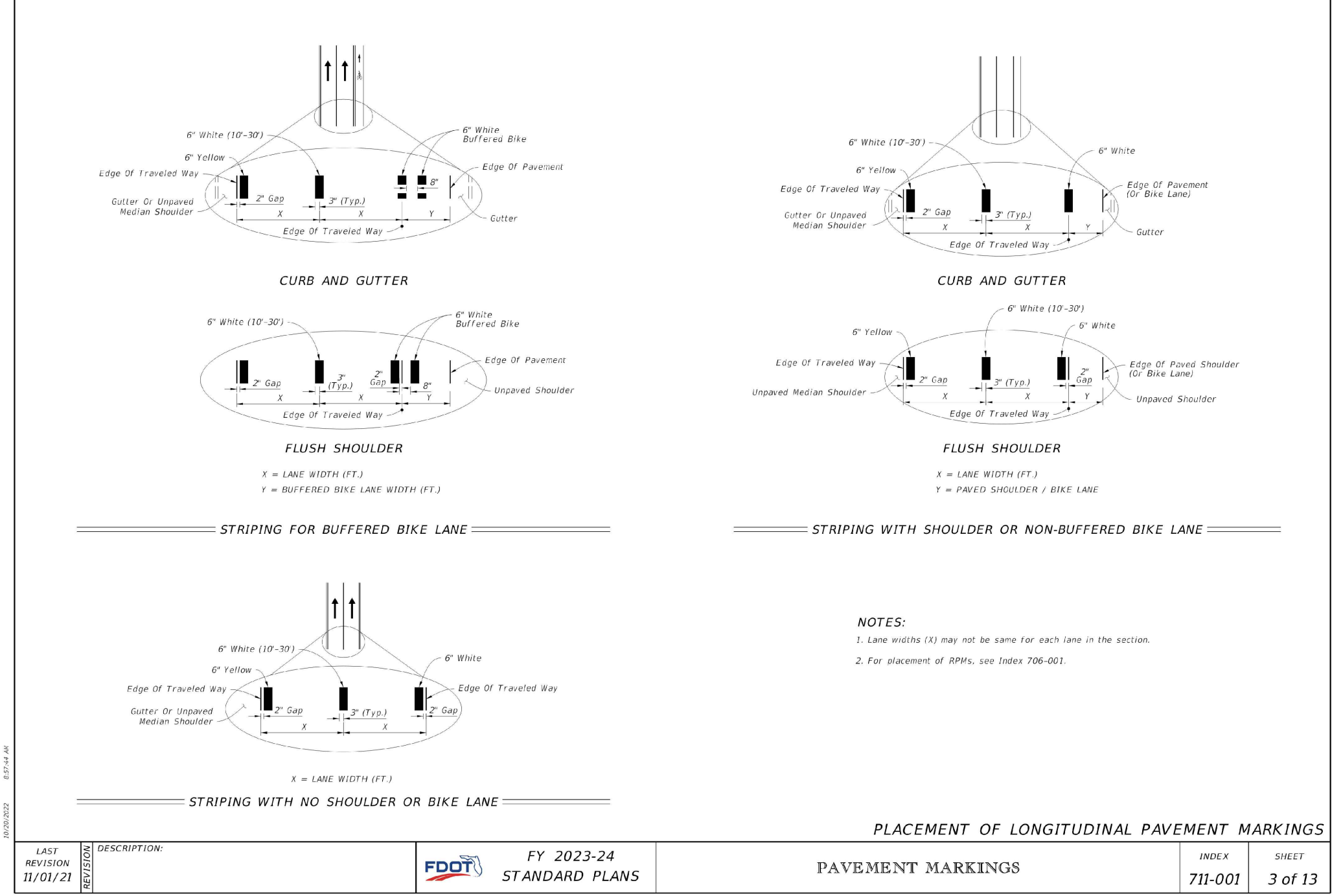
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SCALE: NTS
PROJ. NO.: 230012
DESIGNED BY: LDS
DRAWN BY: WGM
CHECKED BY: JTW
DRAWING NO. C-8



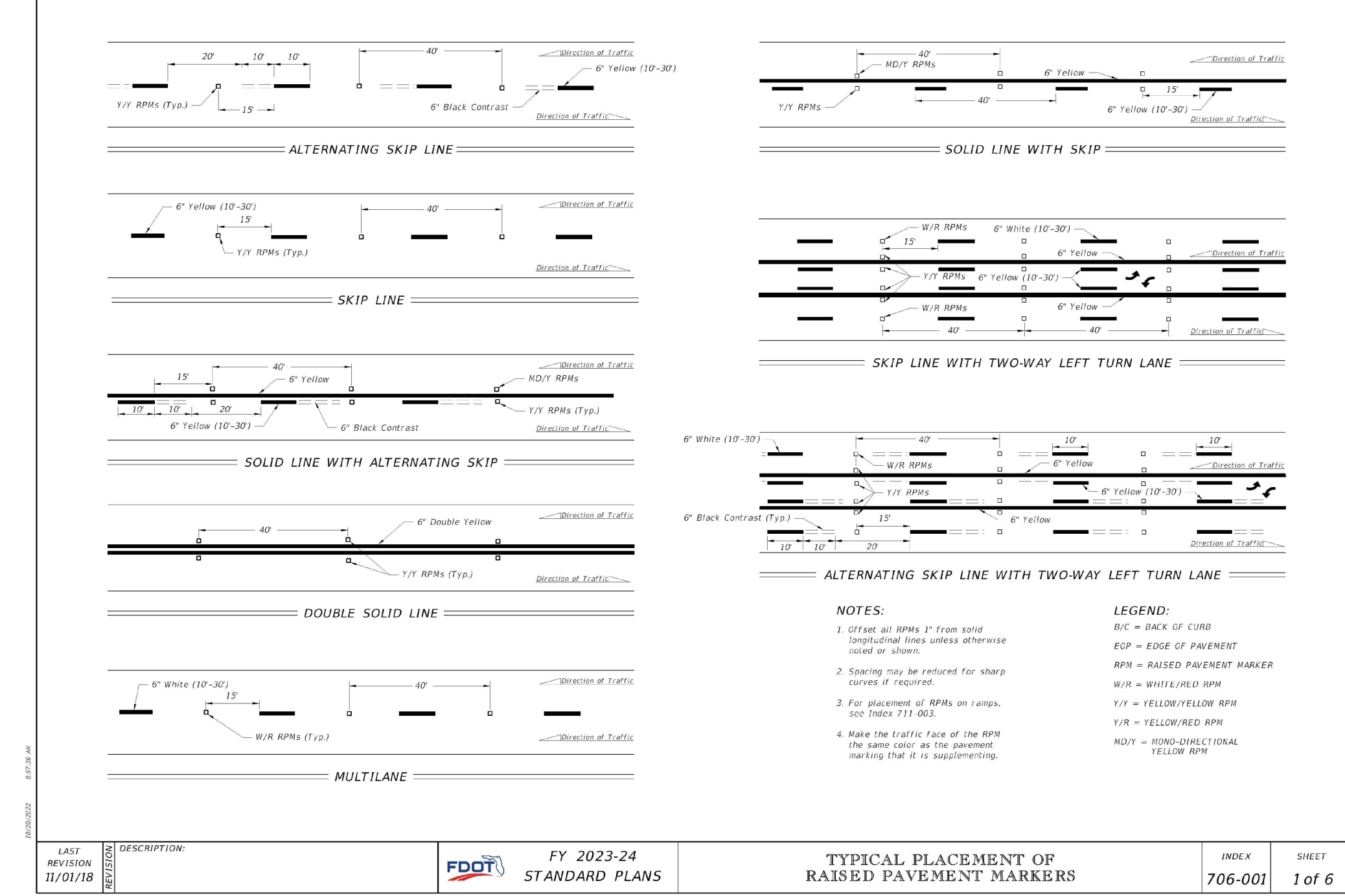
LAST REVISION	DESCRIPTION	INDEX	SHEET
11/01/22		711-001	1 of 13



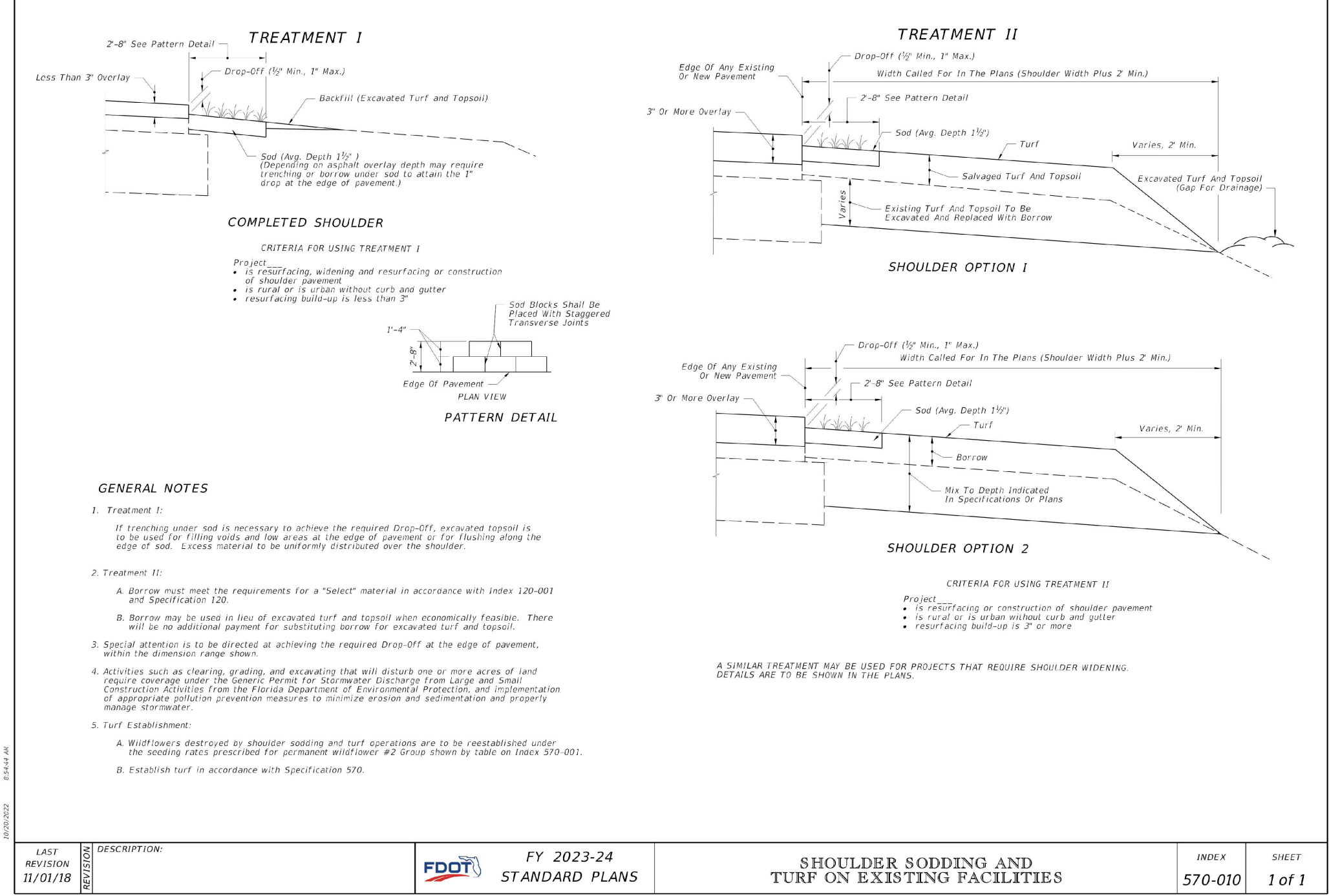
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11/01/22		711-001	2 of 13



LAST REVISION	DESCRIPTION	INDEX	SHEET
11/01/22		711-001	3 of 13



LAST REVISION	DESCRIPTION	INDEX	SHEET
11/01/22		706-001	1 of 6



LAST REVISION	DESCRIPTION	INDEX	SHEET
11/01/22		570-010	1 of 1



LAST REVISION	DESCRIPTION	INDEX	SHEET
11/01/22		706-001	1 of 6

REVISION
 DATE
 REV#
 1 7/31/23
 CITY/FOOT COMMENTS

260 Epa/Galle Blvd, Suite A
 Melbourne, FL 32935
 Tel: 321.253.1221
 www.ceengineering.com
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 DRAWING TITLE
FDOT STANDARD DETAILS

JAKE T. WISE, PE
 PE # 55405

DATE: 06/28/23
 SCALE: NTS
 PROJ. NO.: 230012
 DESIGNED BY: LDS
 DRAWN BY: WGM
 CHECKED BY: JTW
 DRAWING NO. C-9

ADDED SHEET

GENERAL NOTES:

- Construct sidewalks in accordance with Specification 522. Use 4" concrete for Sidewalks and Curb Ramps located within Curb Returns (See Plan View). Install all other concrete with thickness as shown, unless otherwise indicated in the Plans.
- Include detectable warnings on sidewalk curb ramps in accordance with Index 522-002.
- For Driveways see Index 522-003.
- Joint breaker material can be any impermeable coated or sheet membrane or preformed material having a thickness of not less than 6 mils and not more than 1/2".
- Concrete sidewalks with Edge Beams through the limits of any surface mounted Pedestrian/Bicycle Railing or Pipe Support shown in the plans, show RAILING DETAILS.

LEGEND:

- 4" Thick Sidewalk
- Thick Sidewalk
- Utility Strip

GENERAL NOTES AND CONCRETE SIDEWALK ON CURBED ROADWAYS

LAST REVISION: 11/01/18	DESCRIPTION: 522-001	FY 2023-24 STANDARD PLANS	INDEX: 522-001	SHEET: 1 of 2
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LEGEND:

- 4" Thick Sidewalk
- 2" Detectable Warning Surface

CONCRETE SIDEWALK ON FLUSH SHOULDER ROADWAYS

LAST REVISION: 11/01/18	DESCRIPTION: 522-001	FY 2023-24 STANDARD PLANS	INDEX: 522-001	SHEET: 2 of 2
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GENERAL NOTES:

- Cross Slopes and Grades:
 - Sidewalk, ramp, and landing slopes (e.g. 0.02, 0.05, and 1:12) shown in this Index are minimums. With approval of the Engineer, provide the minimum feasible slope where the requirements cannot be met.
 - Landings must have cross-slopes less than or equal to 0.02 in any direction.
 - Maintain a single longitudinal slope along each side of the curb ramp. Ramp slopes are not required to exceed 1/2" foot in length.
 - Joints permitted at the location of Slope Breaks. Otherwise locate joints in accordance with Index 522-001. No joints are permitted within the ramp portion of the Curb Ramp.
- Curb, Curb and Gutter and/or Sidewalk:
 - Refer to Index 522-001 for concrete thickness and sidewalk details.
 - Remove any existing curb, curb and gutter, or sidewalk to the nearest joint beyond the curb transition on to the extent that no remaining section is less than 3 feet long.
 - Width of Curb Ramp is 4'-0" minimum. Match sidewalk or Shared Use Path width as shown in the Plans.
- Curb Ramp Alpha-Identifications:
 - Sidewalk curb ramp alpha-identifications (e.g. CR-A) are provided for reference purposes in the Plans.
 - Alpha-identifications CR-I and CR-J are intentionally omitted.
- Detectable Warnings:
 - Install detectable warnings in accordance with Specification 522.
 - Place detectable warnings across the full width of the ramp or landing to a maximum depth of 2 feet measured perpendicular to the curb line and no greater than 5 feet from the back of the curb or edge of pavement.
 - If detectable warnings are shown in the Plans on slopes greater than 5%, align the truncated domes with the centerline of the ramp; otherwise, the truncated domes are not required to be aligned.

CURB RAMP NOMENCLATURE

LAST REVISION: 11/01/18	DESCRIPTION: 522-002	FY 2023-24 STANDARD PLANS	INDEX: 522-002	SHEET: 1 of 7
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NOTE: For Example of CR-A used in Railing Curb Returns, See Sheet B.

SECTION A-A

SIDEWALK CURB RAMP CR-A AND CR-B

LAST REVISION: 11/01/18	DESCRIPTION: 522-002	FY 2023-24 STANDARD PLANS	INDEX: 522-002	SHEET: 2 of 7
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1	7/31/23	CITY/FDOT COMMENTS

2651 Epa/Galle Blvd., Suite A
Melbourne, FL 32935
Tel: 321.251.1221
www.ceengineering.com
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CHECKED BY: JTW
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JAKE T. WISE, PE
PE # 55405

ADDED SHEET

