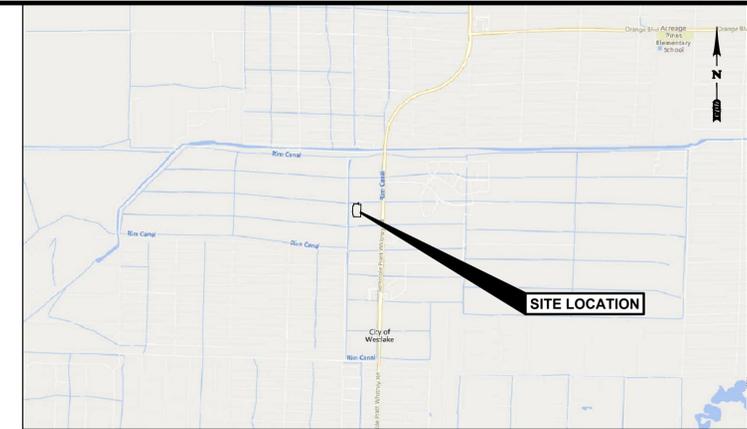


CONSTRUCTION PLANS FOR BIG BOX RETAIL AND FUEL STATION

WESTLAKE / PALM BEACH COUNTY / FLORIDA
SECTION 01 - TOWNSHIP 43 SOUTH - RANGE 40 EAST
PARCEL ID(S): 77-40-43-01-00-000-1010



VICINITY MAP
SCALE: 1" = 4,000'



www.cphcorp.com
Building Stronger
Communities Together

1125 BARTOW RD
LAKELAND, FL 33801
Ph: 863-252-2761

Plans Prepared By:
CPH, LLC
A Full Service A & E Firm

Digitally signed by
Joshua D. Lockhart
Date: 2026.02.04
16:39:09-0500
JOSHUA D. LOCKHART, P.E.
FL P.E. #74011

This item has been digitally signed and sealed by Joshua D. Lockhart, PE on the date adjacent to the seal. Signature must be verified on any electronic copies

OWNER
MINTO PBLH LLC
4400 W SAMPLE ROAD, STE 200
POMPANO BEACH, FL 33073
ATTN: JOHN CARTER
(954) 935-6511

DEVELOPER
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4400 W SAMPLE ROAD, STE 200
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ENGINEER
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SANFORD, FLORIDA 32771
ATTN.: JOSHUA D. LOCKHART, P.E.
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ENVIRONMENTAL CONSULTANT
UNIVERSAL ENGINEERING SERVICES
607 NW COMMODITY COVE
PORT ST. LUCIE, FL 34986
ATTN: ROBERT CROWELL, P.G.
(772) 924-3575

SURVEYOR
CPH, LLC 500 W. FULTON STREET
SANFORD, FLORIDA 32771
ATTN.: PAUL J. KATREK, PSM
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SOIL CONSULTANT
UNIVERSAL ENGINEERING SERVICES
607 NW COMMODITY COVE
PORT ST. LUCIE, FL 34986
ATTN: DHANUHASINI SUBRAMANIAM, E.I.
(772) 924-3575

TRAFFIC CONSULTANT
PINDER & TROUTMAN CONSULTING, LLC
601 HERITAGE DRIVE, STE 493
JUPITER, FL 33458
ATTN: ANDREA TROUTMAN, P.E.
(561) 296-9698

LANDSCAPE ARCHITECT
COTLEUR & HEARING
1934 COMMERCE LANE, STE 1
JUPITER, FL 33458
ATTN: DON HEARING, PLA, ASLA, LEED
(561) 747-6336

BUILDING ARCHITECT
HFA-AE, LTD
1705 S. WALTON BOULEVARD,
STE 3
BENTONVILLE, AR 72712
ATTN.: MATTHEW TURNER, AIA
(479) 273-7780 EXT 216

APPROVAL AGENCIES
CITY OF WESTLAKE
CITY OF WESTLAKE
PLANNING & ZONING
4001 SEMINOLE PRATT WHITNEY ROAD
WESTLAKE, FL 33470
ATTN: OSNIEL LEON
(561) 530-5880

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOUTH DISTRICT
3301 GUN CLUB ROAD
WEST PALM BEACH, FL 33406
ATTN: SIRENA DAVILA
(561) 681-6600

WATER MANAGEMENT DISTRICT
SOUTH FLORIDA WATER MANAGEMENT DISTRICT
3301 GUN CLUB ROAD
WEST PALM BEACH, FL 33406
ATTN: GARY PRIEST, P.E.
(561) 686-8800

UTILITIES
SEMINOLE IMPROVEMENT DISTRICT
7900 GLADES ROAD, STE 100
BOCA RATON, FL 33434
ATTN: RYAN WHEELER
(561) 392-1991

CITY OF WESTLAKE
TRAFFIC DIVISION
2300 N JOG RD, 3RD FLOOR
WEST PALM BEACH, FL 33411
ATTN: FADI EMIL NASSAR, PH.D, P.E., PTOE
(561) 684-4030

UTILITY RESPONSIBILITY MATRIX FOR THIS PROJECT

UTILITY/ GOVERNING AGENCIES CONTACTS	* CONTRACTOR RESPONSIBILITY--	* OTHERS RESPONSIBILITY--
CABLE COMCAST (800) 788-9140	--COORDINATE CONSTRUCTION ACTIVITIES WITH CABLE COMPANY TO ENSURE THE EXISTING CABLE LINES ARE PROTECTED PRIOR TO ASPHALT OR CURB PLACEMENT.	--ANY RELOCATION OF EXISTING LINES WILL BE DONE BY CABLE COMPANY.
TELEPHONE AT&T (888) 357-1922	--COORDINATE CONSTRUCTION ACTIVITIES WITH TELEPHONE COMPANY TO ENSURE INSTALLATION OF UNDERGROUND LINES ARE COMPLETED PRIOR TO ASPHALT OR CURB PLACEMENT. --PROVIDE AND INSTALL (2)-4" SCHEDULE 40 PVC CONDUITS WITH PULL ROPES, INCLUDING ALL TRENCHING AND BACKFILLING, FROM THE RISER POLE UP TO THE BUILDING. --PROVIDE AND INSTALL PULL BOXES AS PER TELEPHONE COMPANY REQUIREMENTS.	--ANY RELOCATION OF EXISTING LINES WILL BE DONE BY TELEPHONE COMPANY.
ELECTRIC FLORIDA POWER & LIGHT -- PALM BEACH 500 BUSINESS PARKWAY A ROYAL PALM BEACH, FL 33411 NICHOLAS GARCIA (561) 691-7298	--COORDINATE CONSTRUCTION ACTIVITIES WITH ELECTRIC COMPANY TO ENSURE INSTALLATION OF UNDERGROUND LINES ARE COMPLETED PRIOR TO ASPHALT OR CURB PLACEMENT. --CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF FPL INVOICES AND COST SHALL BE REIMBURSED BY THE OWNER. --CONTRACTOR TO PROVIDE AS-BUILTS OF ELECTRIC LINES INSTALLED BY FPL. --PROVIDE AND INSTALL ALL SECONDARY SERVICE AND MATERIALS. --CONTRACTOR TO FURNISH AND PROVIDE ONE LEGAL SKETCH AND DESCRIPTION CERTIFIED BY A FLORIDA PLS FOR ELECTRIC EASEMENT, SKETCH AND DESCRIPTION SHALL BE 20' WIDE, CENTERED OVER THE ON-SITE INSTALLED ELECTRICAL LINES, INCLUDING THE TRANSFORMERS.	--PRIMARY ELECTRIC SERVICE UP TO AND INCLUDING TRANSFORMER. --ANY RELOCATION OF EXISTING LINES OR POLES WILL BE DONE BY FPL. --FURNISH AND INSTALL DIRECT BURIAL ELECTRIC LINES, TRANSFORMER, TRANSFORMER PAD, AND NECESSARY UTILITY BOLLARDS.
SANITARY SEWER SEMINOLE IMPROVEMENT DISTRICT 7900 GLADES ROAD, STE 100 BOCA RATON, FL 33434 RYAN WHEELER (561) 392-1991	--PROVIDE AND INSTALL SANITARY SEWER LINES AND ASSOCIATED APPURTENANCES PER THE PLANS AND SPECIFICATIONS. --ALL WORK SHALL COMPLY WITH CITY OF WESTLAKE SITINGWORK SPECIFICATIONS -- AND CITY OF WESTLAKE DETAILS.	--ONLY DISTRICT STAFF/OPERATORS ARE AUTHORIZED TO OPERATE (OPEN AND CLOSE VALVES ON DISTRICT FACILITIES) --DISTRICT STAFF SHALL CCTV THE INSTALLED SANITARY SEWER CONNECTION FOR DEFECTS. ANY IDENTIFIED DEFECTS SHALL BE RESOLVED PRIOR TO ACCEPTANCE.
WATER SEMINOLE IMPROVEMENT DISTRICT 7900 GLADES ROAD, STE 100 BOCA RATON, FL 33434 RYAN WHEELER (561) 392-1991	--PROVIDE AND INSTALL ALL WATER MAINS, SERVICE LINES, AND ASSOCIATED APPURTENANCES PER THE PLANS AND SPECIFICATIONS. --ALL WORK SHALL COMPLY WITH DEVELOPMENT STANDARDS SET FORTH IN THE CITY OF WESTLAKE'S LAND DEVELOPMENT CODE AND DETAILS HANDBOOK. --ALL PUBLIC AND PRIVATE WATER MAINS FOR USE IN 4" UP TO 12" SHALL BE PVC AWWA C900, DR 25, PIPE SMALLER THAN 3" SHALL BE ASTM D2241, SDR 21, 200 PSI PRESSURE RATING. POLYETHYLENE WATER SERVICE SHALL BE USED FOR SINGLE AND MULTIPLE SERVICES OF 2" AND SMALLER. PE SHALL BE PE-3408 CTS TUBING (DR-9) 200 PSI OR EQUIVALENT.	--ONLY DISTRICT STAFF/OPERATORS ARE AUTHORIZED TO OPERATE (OPEN AND CLOSE VALVES ON DISTRICT FACILITIES)
NON-POTABLE WATER SEMINOLE IMPROVEMENT DISTRICT 7900 GLADES ROAD, STE 100 BOCA RATON, FL 33434 RYAN WHEELER (561) 392-1991	--PROVIDE AND INSTALL ALL NON-POTABLE WATER MAINS, SERVICE LINES, AND ASSOCIATED APPURTENANCES PER THE PLANS AND SPECIFICATIONS. --ALL WORK SHALL COMPLY WITH DEVELOPMENT STANDARDS SET FORTH IN THE CITY OF WESTLAKE'S LAND DEVELOPMENT CODE AND DETAILS HANDBOOK. --ALL PUBLIC AND PRIVATE RECLAIMED WATER MAINS FOR USE IN 3" AND LARGER SHALL BE AWWA C900 OR C905, DR-25, PIPES SMALLER THAN 3" SHALL BE ASTM D2241, SDR 21, WITH A PRESSURE RATING OF 200. POLYETHYLENE WATER SERVICE SHALL BE USED FOR SINGLE AND MULTIPLE SERVICES OF 2" AND SMALLER. PE SHALL BE PE-3408 CTS TUBING (DR-9) 200 PSI OR EQUIVALENT.	--ONLY DISTRICT STAFF/OPERATORS ARE AUTHORIZED TO OPERATE (OPEN AND CLOSE VALVES ON DISTRICT FACILITIES)

NOTES:

- THE SITEMARK FOR THIS PROJECT SHALL MEET OR EXCEED THE "BIG BOX STANDARD SITEMARK SPECIFICATIONS."
- ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.
- NO CHANGES SHALL OCCUR TO THE LAYOUT, DESIGN OR ANY OTHER ASPECT OF THE PLAN, WITHOUT RESUBMITTAL AND SUBSEQUENT APPROVAL BY THE VILLAGES DRC OF ANY REQUESTED REVISIONS. UPON COMPLETION OF THE SITE WORK, THE VILLAGES DRC'S REPRESENTATIVE WILL INSPECT THE FINISHED CONSTRUCTION AND DETERMINE WHETHER THE COMPLETED JOB MEETS THE APPROVED SUBMITTAL PLANS AND SPECIFICATIONS. ANY DEFICIENCIES FOUND BY THE VILLAGES DRC'S REPRESENTATIVE WILL BE IDENTIFIED IN WRITING TO THE PARCEL DEVELOPER, WHO SHALL IMMEDIATELY TAKE ALL CORRECTIVE ACTION NECESSARY TO REMEDY ANY DEFICIENCIES. FINAL APPROVAL FROM THE VILLAGES DRC SHALL BE OBTAINED PRIOR TO SUBMITTAL OF THE FINAL CERTIFICATION OF COMPLETION TO THE GOVERNING AUTHORITY HAVING JURISDICTION BY THE PROJECT ENGINEER.

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BUILDING PROTO:
RETAIL: C-171-SGR-QR DATED 10/31/25,
HFA-AE, LTD
FUEL: 1440 DATED 10/31/25, HFA-AE, LTD



THE SIZE OF THESE PLANS MAY HAVE BEEN SLIGHTLY ALTERED BY REPRODUCTION PROCESSES. THIS MUST BE CONSIDERED WHEN SCALING ANY REPRODUCED PLANS FOR THE PURPOSE OF COLLECTING DATA.

NOTE: ALL ELEVATIONS (GRADING, UTILITIES AND DRAINAGE) ARE IN NAVD '88 AND TIED TO THE SAME PRIMARY BENCHMARK

No.	Date	Revision
02/02/26	01/09/26	PER DEVELOPER COMMENTS
		PER CITY COMMENTS

Designed: M. LOMELI
Drawn: D. COLLAZO
Checked: J. LOCKHART
Job No.: W131372
Date: 01/2025 © 2026

COVER SHEET
NEW RETAIL AND FUEL STATION
WESTLAKE / PALM BEACH COUNTY / FLORIDA

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS.

Sheet No.
C0.1

GENERAL PROVISIONS

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL MAKE A PRE-CONSTRUCTION VIDEO (MP4, MPG, WMV, MOV OR APPROVED EQUIVALENT) IN ACCORDANCE WITH THE SPECIFICATIONS. THE FILES SHALL BE SAVED IN DIGITAL FORMAT ON A PORTABLE USB HARD/FLASH DRIVE OR APPROVED EQUAL, AND SHALL BE ABLE TO BE PLAYED BACK ON ANY WINDOWS COMPATIBLE COMPUTER. IN PARTICULAR, THE VIDEO SHALL DOCUMENT THE CONDITION OF EXISTING DRIVEWAYS, BUILDINGS, STRUCTURES, MAILBOXES, SIGNS, FENCES, AND LANDSCAPING ALONG PROPOSED CONSTRUCTION AREAS.

2. THE CONTRACTOR SHALL RECOGNIZE AND ABIDE BY ALL OSHA EXHAUCTION SAFETY STANDARDS, INCLUDING THE FLORIDA TRENCH SAFETY ACT (FS 553.60-553.64). ANY MATERIAL, CONSTRUCTION METHODS, OR MATERIAL COST TO COMPLY WITH THESE LAWS SHALL BE INCIDENTAL TO THE CONTRACT.

3. ALL CONSTRUCTION PROJECTS 1 OR MORE ACRES IN SIZE THAT DISCHARGE TO OFFSITE AREAS ARE REQUIRED TO COMPLY WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT FOR STORMWATER DISCHARGE FROM SMALL AND LARGE CONSTRUCTION ACTIVITIES. IN ORDER TO MEET NPDES REQUIREMENTS, THE CONTRACTOR IS RESPONSIBLE FOR PREPARING A STORMWATER POLLUTION PREVENTION PLAN (SWPPP), IMPLEMENTING, INSPECTING, MAINTAINING, AND REPORTING ON ALL ELEMENTS OF THE SWPPP. COMPLETING AND SUBMITTING THE REQUIRED NOTICE OF INTENT (NOI) AND NOTICE OF TERMINATION (NOT) FORMS AS THE OPERATOR, AND PAYING ALL ASSOCIATED FEES. FOR PROJECTS LESS THAN 1 ACRE IN SIZE THAT ARE NOT REQUIRED TO COMPLY WITH THE NPDES GENERAL PERMIT, THE CONTRACTOR IS STILL RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO AND DURING CONSTRUCTION IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.

4. UNLESS OTHERWISE NOTED ON THE PLANS, THE CONTRACTOR SHALL USE THE GEOMETRY PROVIDED ON THE CONSTRUCTION PLANS. BENCHMARK INFORMATION SHALL BE PROVIDED TO THE CONTRACTOR BY THE OWNER OR OWNERS SURVEYOR. ANY DISCREPANCIES BETWEEN FIELD MEASUREMENTS AND CONSTRUCTION PLAN INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.

5. BASE SURVEY INFORMATION INCLUDING BUT NOT LIMITED TO ELEVATIONS, EASEMENTS, RIGHTS OF WAY, AND OTHER TOPOGRAPHIC INFORMATION HAS BEEN PREPARED BY OTHER PROFESSIONALS. CPH, LLC ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THIS INFORMATION.

6. THIS SET OF PLANS MAY CONTAIN DRAWINGS PREPARED BY OTHER PROFESSIONALS, WHICH CONTAIN THE NAME, ADDRESS, AND LOGO OF THE PROFESSIONAL. CPH, LLC IS NOT RESPONSIBLE FOR DRAWINGS PREPARED BY OTHER PROFESSIONALS.

7. SUBMIT ELECTRONIC COPIES (PDF FORMAT) OF EACH SHOP DRAWING AND PRODUCT DATA TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING THE MATERIALS REQUIRED FOR CONSTRUCTION. PRIOR TO SUBMISSION, THE CONTRACTOR SHALL THOROUGHLY CHECK SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES FOR COMPLETENESS AND FOR COMPLIANCE WITH THE CONSTRUCTION PLANS AND SHALL VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND SHALL COORDINATE THE SHOP DRAWINGS WITH THE CONTRACTOR'S RESPONSIBILITY FOR ERRORS AND OMISSIONS IN SUBMITTALS IS NOT RELIEVED BY THE ENGINEER'S REVIEW OF SUBMITTALS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER, IN WRITING AT THE TIME OF SUBMISSION, OF DEVIATIONS IN SUBMITTALS FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

8. PROTECT BENCHMARKS, PROPERTY CORNERS, AND OTHER SURVEY MONUMENTS FROM DAMAGE OR DISPLACEMENT. IF MARKER NEEDS TO BE REMOVED IT SHALL BE REFERENCED BY LICENSED LAND SURVEYOR AND REPLACED, AS NECESSARY, BY SAME.

9. THE CONTRACTOR IS RESPONSIBLE FOR ALL QUALITY CONTROL TESTING. AS A MINIMUM, TESTING SHALL INCLUDE A) PIPING AND STRUCTURAL EXCAVATION, BEDDING AND BACKFILL MATERIALS AND DENSITY TESTS; B) DETERMINATION OF COMPACTIVE EFFORT REQUIRED FOR COMPLIANCE WITH THE DENSITY REQUIREMENTS; C) PORTLAND CEMENT CONCRETE AND ASPHALT PAVING QUALITY CONTROL TESTING INCLUDING DESIGN MIX REVIEW, MATERIALS, FIELD SLUMP AND AIR CONTENT, AND FIELD AND LAB CURED STRENGTH SAMPLES AND TESTING.

10. IN ADDITION TO QUALITY CONTROL TESTING, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REQUIRED TESTING OR APPROVALS FOR ANY WORK (OR ANY PART THEREOF) IF LAWS OR REGULATIONS OF ANY PUBLIC BODY HAVING JURISDICTION SPECIFICALLY REQUIRE TESTING, INSPECTIONS OR APPROVAL. THE CONTRACTOR SHALL PAY ALL COSTS IN CONNECTION THEREWITH AND SHALL FURNISH THE OWNER AND ENGINEER THE REQUIRED CERTIFICATES OF INSPECTION, TESTING OR APPROVAL.

11. ANY DESIGN OR TESTING LABORATORY UTILIZED BY THE CONTRACTOR SHALL BE AN INDEPENDENT LABORATORY ACCEPTABLE TO THE OWNER AND THE ENGINEER, APPROVED WITH THE LATEST EDITION OF THE PRECEDING EDITIONS OF THE STANDARD SPECIFICATIONS INCLUDING DESIGN MIX REVIEW, MATERIALS, FIELD SLUMP AND AIR CONTENT, AND FIELD AND LAB CURED STRENGTH SAMPLES AND TESTING.

12. TESTING RESULTS SHALL BE PROVIDED TO THE OWNER/OPERATOR AND THE ENGINEER. ALL TEST RESULTS SHALL BE PROVIDED (PASSING AND FAILING) ON A REGULAR AND IMMEDIATE BASIS.

13. THE ENTIRE PROJECT SITE SHALL BE THOROUGHLY CLEANED AT THE COMPLETION OF THE WORK. CLEAN ALL INSTALLED PIPELINES, STRUCTURES, SIDEWALKS, PAVED AREAS, ACCUMULATED SILT IN PONDS, PLUS ALL ADJACENT AREAS AFFECTED BY CONSTRUCTION, AS DIRECTED BY THE OWNER OR JURISDICTIONAL AGENCY. EQUIPMENT TO CLEAN THESE SURFACES SHALL BE SUBJECT TO APPROVAL BY THE OWNER.

PERMITS Note: Fill in the below tables for each Project. Delete rows and permits that do not apply to the Project (only show the permits that have been obtained by the Owner and the permits that are required to be obtained by the Contractor)

1. THE CONTRACTOR SHALL OBTAIN FROM THE OWNER COPIES OF ALL AVAILABLE REGULATORY AGENCY PERMITS AND LOCAL AGENCY PERMITS OBTAINED BY THE OWNER. THESE PERMITS INCLUDE: Note: Fill in the below table

PERMIT NO ISSUING AGENCY/DATE OF PERMIT
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL APPLY FOR THE FOLLOWING PERMITS FOR THE PROJECT CONSTRUCTION: Note: Delete rows and permits that do not apply to the Project (only show the permits that are required to be obtained by the Contractor)

PERMIT FEE/PERMITTING AGENCY/PERMIT FEE TO BE PAID BY CONTRACTOR
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR CONSTRUCTION.

SIGNED AND SEALED CONSTRUCTION PLANS WILL BE PROVIDED TO THE CONTRACTOR FOR ITS USE IN APPLYING FOR THE ABOVE PERMITS. THE CONTRACTOR IS TO COORDINATE WITH EACH PERMITTING AGENCY IN ORDER TO DETERMINE THE NUMBER OF SETS OF SIGNED AND SEALED CONSTRUCTION PLANS THAT ARE REQUIRED AND THE REQUIRED SHEET SIZE (FULL SIZE 22"X34" OR HALF SIZE 11"X17").

4. THE CONTRACTOR SHALL REVIEW AND SECURE FAMILIAR WITH ALL PERMITS FOR THE PROJECT, COMPLETE WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS AND PERMIT MODIFICATIONS. A COPY OF ALL PERMITS FOR THE PROJECT SHALL BE MAINTAINED BY THE CONTRACTOR AT THE PROJECT SITE, AND SHALL BE AVAILABLE FOR REVIEW UPON REQUEST.

5. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE TO ABIDE BY ALL PROVISIONS OF THE PERMITS. THE CONTRACTOR IS RESPONSIBLE FOR THE SELECTION, IMPLEMENTATION AND OPERATION OF ALL MEASURES REQUIRED BY THE PERMITS, INCLUDING THE MAINTENANCE OF SAID MEASURES AS NECESSARY DURING CONSTRUCTION. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY WORK ASSOCIATED WITH PERMIT REQUIREMENTS.

EXISTING UTILITIES
1. THE UTILITY DATA SHOWN ON THESE PLANS WAS LOCATED BY THE RESPECTIVE UTILITY, OR IS BASED ON UTILITY DRAWINGS, MAPS, OR FIELD RECONNAISSANCE.

2. THE LOCATION, MATERIAL TYPE, AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE OWNER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL CONDUCT AN INVESTIGATION TO DETERMINE THE HORIZONTAL AND VERTICAL ELEVATIONS OF EXISTING UTILITIES THAT WILL BE CONNECTED TO, EXTENDED, OR OTHERWISE BE LOCATED IN THE VICINITY OF THE PROPOSED CONSTRUCTION. AT PROPOSED CONNECTIONS, INVESTIGATIONS SHALL EXTEND BEYOND THE POINT OF CONNECTION AS NEEDED TO ADJUST PROPOSED CONNECTION POINTS DUE TO UTILITY CONFLICTS. IN THE EVENT SIDEWALKS OR PAVEMENT IS IMPACTED IN ORDER TO CONDUCT THESE INVESTIGATIONS, THE COST OF TRAFFIC CONTROL AND RESTORATION IS INCIDENTAL TO THE CONTRACT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITIES OF THE CONSTRUCTION AND TO MAKE THE NECESSARY ARRANGEMENTS TO PROTECT ALL EXISTING UTILITIES. ANY UTILITIES THAT INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE CLOSELY COORDINATED WITH THE OWNER AND THE RESPECTIVE UTILITY COMPANY FOR RELOCATION OR PROPER INSTRUCTION.

3. A SINGLE POINT UTILITY IDENTIFICATION SERVICE HAS BEEN SET UP FOR EXISTING UTILITIES. THE CONTRACTOR IS TO CONTACT THE SUNSHINE STATE ONE CALL CENTER BY DIALING '311' AT LEAST TWO (2) AND NO MORE THAN FIVE (5) WORKING DAYS PRIOR TO THE SPECIFIC CONSTRUCTION ACTIVITY FOR FIELD LOCATION. NOTE THAT NOT ALL UTILITIES PARTICIPATE IN THIS PROGRAM. THE CONTRACTOR SHALL CONTACT ALL NON-PARTICIPATING UTILITIES SEPARATELY FOR FIELD LOCATION OF THEIR FACILITIES AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

4. THE FOLLOWING UTILITIES HAVE PREVIOUSLY INDICATED THAT THEY MAY HAVE FACILITIES IN THE VICINITY OF THE CONSTRUCTION AREA:

AT&T DISTRIBUTION Note: Scott Lorezo is the contact for Seminole County
ATTN: SCOTT LORENZ
407-362-7811
E-MAIL: SL4484@ATT.COM

FLORIDA POWER & LIGHT
ATTN: CHRIS BUONANNI PH. 407-328-1911
E-MAIL: CHRISTOPHER.BUONANNI@FPL.COM

FLORIDA POWER & LIGHT - TRANSMISSION
ATTN: DALIANA AMADOR
E-MAIL: DALIANA.AMADOR@FPL.COM

SEMINOLE COUNTY TRAFFIC ENGINEERING
ATTN: KETHI BROWN
407-465-6912
E-MAIL: KBROWN2@SEMINOLECOUNTYFL.GOV

SEMINOLE COUNTY ENVIRONMENTAL SERVICES DEPT.
ATTN: CHRIS GRAYBOSCH
407-465-6958
E-MAIL: CGRAYBOSCH@SEMINOLECOUNTYFL.GOV

SOUTH SEMINOLE - NORTH ORANGE CO. WASTEWATER TRANSMISSION AUTHORITY
ATTN: MARC CANNATA
407-479-5558

5. THE CONTRACTOR SHALL KEEP LOCATE TICKETS UP TO DATE AT ALL TIMES.

6. THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION WITH ALL UTILITIES AND ALL COSTS ASSOCIATED WITH THE PROTECTION OF EXISTING FACILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL ALSO COORDINATE NECESSARY RELOCATIONS OR OTHER CONSTRUCTION RELATED MATTERS WITH EACH UTILITY.

7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN IN SERVICE ALL EXISTING PIPING ENCOUNTERED DURING CONSTRUCTION UNLESS OTHERWISE INDICATED IN THE DRAWINGS. ANY PIPING WHICH CAN BE REMOVED DURING CONSTRUCTION WITHOUT UNDUE INTERRUPTION OF SERVICE MAY BE REMOVED AND REPLACED BY THE CONTRACTOR WITH THE PERMISSION OF THE OWNER AND THE ENGINEER.

8. THE CONTRACTOR SHALL FIELD LOCATE ALL WATER AND SEWER SERVICES AND LATERALS WITHIN THE PROPOSED CONSTRUCTION AREA PRIOR TO CONSTRUCTION AND ADJUST THE PROPOSED CONSTRUCTION AS NEEDED TO ACCOMMODATE THESE EXISTING LINES.

9. TYPICAL DETAILS AND PROPOSED CONSTRUCTION AS SHOWN ILLUSTRATE THE ENGINEERS INTENT AND ARE NOT PRESENTED AS A SOLUTION TO ALL CONSTRUCTION PROBLEMS ENCOUNTERED IN THE FIELD. THE CONTRACTOR MAY ALTER THE PROPOSED CONSTRUCTION TO SUIT FIELD CONDITIONS. PROVIDED IT COMPLIES WITH THE PROJECT SPECIFICATIONS AND APPROVAL IS RECEIVED FROM THE ENGINEER. WHERE SUCH PROPOSED REVISIONS DEVIATE FROM THE FDP CONSTRUCTION PERMIT, THEN SUCH REVISIONS WILL ALSO REQUIRE APPROVAL FROM FDP.

FOR EACH RESPECTIVE PIPELINE CONSTRUCTION REQUIRED, THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION, DEPTH, SIZE, MATERIAL, TYPE, AND ALIGNMENT OF ALL EXISTING PIPES, CABLES, ETC. TO BE CROSSED OR CONNECTED TO. IF THE CONTRACTOR DEEMS NECESSARY (A) A CHANGE IN ALIGNMENT

OR DEPTH, OR THE NEED FOR ADDITIONAL FITTINGS, BENDS, OR COUPLINGS, WHICH REPRESENT A DEPARTURE FROM THE CONTRACT DRAWING, OR (B) A NEED FOR RELOCATION OF EXISTING UTILITIES. THEN DETAILS OF SUCH DEPARTURES, RELOCATIONS, OR ADDITIONAL FITTINGS, INCLUDING CHANGES IN RELATED PORTIONS OF THE PROJECT AND THE REASONS THEREFOR, SHALL BE SUBMITTED WITH SHOP DRAWINGS. APPROVED DRAWINGS FOR THE CONTRACTORS CONVENIENCE SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.

RECORD DRAWING REQUIREMENTS
1. RECORD DRAWINGS SHALL DEPICT SURVEYED AS-BUILT INFORMATION INCLUDING HORIZONTAL AND VERTICAL LOCATIONS AS REQUIRED BELOW. RECORD DRAWINGS SHOULD BE PREPARED BY THE ENGINEER AT LEAST THREE WEEKS PRIOR TO FINAL INSPECTION. ALL AS-BUILT DATA SHALL BE PROVIDED BY A FLORIDA LICENSED SURVEYOR, SIGNED, SEALED AND DATED BY THE RESPONSIBLE PARTY.

2. ALL RECORD DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR IN ACD FORMAT USING CONSTRUCTION PLAN SHEETS PROVIDED BY THE ENGINEER. AS-BUILT INFORMATION SHALL BE FIELD VERIFIED, MEASURED, ADDED TO THE ACD FILES OF THE CONSTRUCTION PLAN SHEETS PROVIDED BY THE ENGINEER, AND CERTIFIED, SIGNED AND SEALED BY THE CONTRACTORS LICENSED SURVEYOR WHO WILL BE RESPONSIBLE FOR THE ACCURACY OF ALL DIMENSIONS AND ELEVATIONS. SHEET SCALE OF THE SCALE OF THE RECORD DRAWINGS SHALL MATCH SHEET SIZES AND SCALE OF THE CONSTRUCTION PLANS. ADD BLOWUP DETAILS IF NECESSARY.

3. THE SURVEYED AS-BUILT INFORMATION SHALL BE VERTICALLY BASED ON THE NORTH AMERICAN DATUM OF 1988 (NAVD 88) AND THE COORDINATE SYSTEM SHALL BE BASED HORIZONTALLY ON THE NORTH AMERICAN DATUM 83 (NAD83) (1990 ADJUSTMENT). THE AS-BUILT SURVEY SHALL BE REFERENCED TO THE PROJECT BENCHMARKS AND SHALL BE REFERENCED TO THE STATE PLANE COORDINATE SYSTEM.

4. All inlets, manholes, structures, valves, valve boxes, hydrants, blow offs, sample points, meter boxes, sidewalk, bollards, etc. shall be clearly shown. Vertical elevations shall be surveyed as follows: Valves (operating full), utility pressure mains (top of center of pipe), hydrants (operating nut of hydrant and grade at the base of the hydrant), manholes (top inverts / flow lines, connecting pipe diameters), grate inlets (top of grate, flow lines, connecting pipe diameters), curb inlets (edge of pavement, top of structure, connecting pipe diameters, flow lines), storm sewer (low the end diameter), sanitary sewer (inset and diameter), fittings (top, diameter, and top elevation), meter boxes (top of box, all air releases (top of enclosure and grade at the base of the enclosure), blow offs (top of box), pump station wet wells (top of wet well, gravity sewer inverts and diameters, force main top of pipe and diameters, structure invert), pump station valve vaults (top of vault, top of pipelines and diameters, vault invert), sidewalk, landings and ramps (top and bottom elevations and cross slopes at each end of the ramp, four corner elevations of landing areas).

5. THE SURVEYED AS-BUILT LOCATION OF THE NEWLY CONSTRUCTED FACILITIES SHALL BE AN ACD OVERALL BASE DRAWING WHICH IS IN STATE PLANE. PROVIDING "PAPER SPACE" VIEWS THAT ARE NOT IN STATE PLANE OF THE CONSTRUCTED FACILITIES IS NOT ACCEPTABLE. PROVIDING NORTHING AND EASTING POINT TABLES TO SEPARATE SHEETS ADDED TO THE CONSTRUCTION PLANS IS NOT ACCEPTABLE. THE AS-BUILT NORTHING AND EASTING DATA MUST BE ON THE INDIVIDUAL CONSTRUCTION PLAN SHEETS TO WHICH THE DATA APPLIES.

6. THE AS-BUILT INFORMATION IS TO INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:

A. HORIZONTAL LOCATIONS AND VERTICAL ELEVATIONS FOR ALL UTILITY AND STORM STRUCTURES INCLUDING BUT NOT LIMITED TO MANHOLES, INLETS AND CLEANOUTS, INCLUDING STRUCTURE TOP AND INVERT ELEVATIONS.

B. DISTANCE ALONG PIPELINES BETWEEN STRUCTURES, PIPELINE DIAMETER AND TYPE OF MATERIAL, AND FINISH GRADE ELEVATIONS ALONG THE CONSTRUCTED PIPELINE.

C. STORMWATER POND TOP OF BERM AND POND BOTTOM ELEVATIONS AND HORIZONTAL DIMENSIONS MEASURED AT A MINIMUM OF TEN LOCATIONS WITHIN EACH POND. THE CONTRACTOR'S RESPONSIBILITY FOR ERRORS AND OMISSIONS IN SUBMITTALS IS NOT RELIEVED BY THE ENGINEER'S REVIEW OF SUBMITTALS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER, IN WRITING AT THE TIME OF SUBMISSION, OF DEVIATIONS IN SUBMITTALS FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

D. STORMWATER POND STRUCTURE DIMENSIONS AND ELEVATIONS, INCLUDING ALL WEIRS, SLOTS, ORIFICES (INCLUDING DIAMETER AND TYPE OF MATERIAL), GATES, AND SKIMMERS.

E. STORMWATER CONVEYANCE SYSTEMS INCLUDING DIMENSIONS, ELEVATIONS, CONTOURS, AND CROSS SECTIONS.

F. HORIZONTAL LOCATIONS (STATE PLANE COORDINATES) AND VERTICAL ELEVATIONS (TOP OF PIPE, FITTING, AND GRADE ELEVATIONS) OF ALL UTILITY MAINS, VALVES, FITTINGS, CONNECTION POINTS, ETC. PROVIDE VERTICAL ELEVATIONS (TOP OF PIPE AND GRADE ELEVATION) AT EACH END AND EVERY 100'-FT ALONG THE UTILITY MAIN. PROVIDE THE UTILITY MAIN DIAMETER AND PIPE MATERIAL. WHERE PIPE MATERIAL CHANGES, PROVIDE THE HORIZONTAL AND VERTICAL INFORMATION AT EACH LOCATION.

G. VERTICAL ELEVATIONS OF ALL PIPELINES AT CROSSINGS OF POTABLE WATER MAINS (WHETHER THE WATER MAIN IS EXISTING OR NEW) IN ORDER TO DOCUMENT THAT THE MINIMUM REQUIRED VERTICAL SEPARATION HAS BEEN MET.

H. VERTICAL ELEVATIONS OF THE TOP OF CASING AND TOP OF CARRIER PIPE MEASURED AT EACH END OF CROSSINGS THAT HAVE BEEN JACED AND BORED.

I. HORIZONTAL LOCATIONS (STATE PLANE COORDINATES AND STATIONS AND OFFSETS) OF EACH END OF STEEL CASING PIPE (ALSO PROVIDE DISTANCE FROM EDGE OF PAVEMENT AND ADJACENT RIGHT-OF-WAY LINES).

J. PIPELINE THAT IS DIRECTIONAL BORED IS TO BE HORIZONTALLY AND VERTICALLY LOCATED EVERY 20' ALONG THE BORE. PROVIDE THIS INFORMATION BY SUBMITTING BORING LOGS AND BY DRAWING THE AS-BUILT VERTICAL AND HORIZONTAL LOCATIONS OF THE BORED PIPELINE ON THE RECORD DRAWINGS BASED ON THE BORING LOGS. PROVIDE STATE PLANE COORDINATES AT EACH END OF DIRECTIONAL BORED PIPELINE.

K. PAVEMENT WIDTH AND ELEVATIONS AT THE CENTERLINE AND EDGE OF PAVEMENT EVERY 200 FEET PLUS AT ALL CHANGES IN LONGITUDINAL SLOPE, CROSS SLOPE, INLET LOCATIONS, AND AT ALL DRIVEWAY AND STREET INTERSECTIONS. FOR PARKING LOTS, RECORD CENTERLINE AND EDGE OF PAVEMENT ELEVATIONS ALONG ALL DRIVE AISLES AND ISLANDS.

L. ALL PARKING AREAS, SIDEWALK, SIDEWALK RAMP, LANDING AREAS, AND RAMP DESIGNATED FOR HANDICAP ACCESS SHALL CONTAIN HORIZONTAL AND VERTICAL MEASUREMENTS IN ORDER TO VERIFY REQUIRED WIDTHS, SLOPES, AND CROSS SLOPES HAVE BEEN MET. PROVIDE BUILDING FINISH FLOOR ELEVATIONS AT ALL BUILDING ACCESS POINTS.

M. HORIZONTAL AND VERTICAL DATA FOR ANY CONSTRUCTION THAT DEVIATES FROM THE APPROVED ENGINEERING DRAWINGS.

N. WHERE THE PLANS CONTAIN SPECIFIC HORIZONTAL LOCATION DATA, SUCH AS STATION AND OFFSET, THE RECORD DRAWINGS ARE TO REFLECT THE ACTUAL HORIZONTAL LOCATION.

O. WHERE THE PLANS CONTAIN SPECIFIC VERTICAL ELEVATION DATA, THE RECORD DRAWINGS ARE TO REFLECT THE ACTUAL MEASURED VERTICAL ELEVATION.

7. RECORD DRAWINGS ARE TO BE PREPARED BY THE CONTRACTOR, CERTIFIED BY THE CONTRACTORS LICENSED SURVEYOR, AND DELIVERED TO THE ENGINEER FOR REVIEW. THE ENGINEER WILL REVIEW THE DRAWINGS FOR COMPLETENESS IN ACCORDANCE WITH THE REQUIREMENTS OF THESE NOTES WITHIN SEVEN (7) FULL WORKING DAYS. FOR PRELIMINARY REVIEW, SUBMITTAL IN ACD AND PDF FORMAT IS SUFFICIENT AND SIGNED AND SEALED COPIES ARE NOT NECESSARY. FINAL SUBMITTAL COMPLETES SHALL CONSIST OF ONE SET SIGNED AND SEALED BY THE CONTRACTORS LICENSED SURVEYOR PLUS ACD AND PDF FILES OF THE RECORD DRAWINGS DELIVERED TO THE ENGINEER. IF THE DRAWINGS ARE FOUND TO BE INCOMPLETE OR INACCURATE, THE DRAWINGS WILL BE RETURNED TO THE CONTRACTOR FOR CORRECTION.

8. IN CASES WHERE THE OWNER DETERMINES PARTIAL CLEARANCES FROM PERMITTING AGENCIES ARE BENEFICIAL TO THE OWNER FOR COMPLETED PORTIONS OF THE PROJECT, PROVIDE FACILITIES (ACAD DRAWINGS) FOR THE ENGINEER TO USE IN PREPARING THE PARTIAL CLEARANCE APPLICATIONS FOR THE OWNER. THESE PRELIMINARY RECORD DRAWINGS SHALL INCLUDE THE FOLLOWING: HORIZONTAL LOCATIONS AND VERTICAL ELEVATIONS AS INDICATED IN ITEM 6 PLUS TEMPORARY WATER MAIN SAMPLE POINT LOCATIONS (REQUIRED FOR NEW WATER MAINS ONLY).

9. COMPLETE SIGNED AND SEALED RECORD DRAWINGS ARE REQUIRED TO BE DELIVERED TO THE OWNER PRIOR TO FINAL INSPECTION OF THE PROJECT. FINAL INSPECTIONS WILL ONLY BE SCHEDULED UPON RECEIPT OF SIGNED AND SEALED RECORD DRAWINGS THAT HAVE BEEN REVIEWED BY THE ENGINEER AND DELIVERED BY THE ENGINEER TO THE OWNER.

EROSION AND SEDIMENT CONTROL
1. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PROVIDED AND INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION. SEDIMENT CONTROL, CONSISTS OF SILT FENCING (SEDIMENT BARRIER) AND FLOATING TURBIDITY BARRIERS PER DETAILS ON THE DRAWINGS. EROSION CONTROL CONSISTS OF SEDIMENT MULCHING, SOODING, WETTING SURFACES, PLACEMENT OF COARSE AGGREGATE, TEMPORARY PAVING.

2. MAINTAIN TEMPORARY EROSION CONTROL SYSTEMS AS DIRECTED BY OWNER OR GOVERNING AUTHORITIES TO CONTROL EROSION AND SILTATION DURING LIFE OF CONTRACT. OWNER HAS AUTHORITY TO LIMIT SURFACE AREA OF ERODIBLE EARTH MATERIAL EXPOSED BY CLEARING AND GRUBBING, EXCAVATION, TRENCHING, BORROW AND EMBANKMENT OPERATIONS. OWNER ALSO HAS AUTHORITY TO DIRECT CONTRACTOR TO PROVIDE IMMEDIATE PERMANENT OR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.

3. THE CONTRACTOR SHALL BE RESPONSIBLE TO EROSION AND SEDIMENT CONTROL MAINTENANCE REQUIREMENTS OR IMPLEMENT ADDITIONAL MEASURES TO CONTROL EROSION ORDERED BY OWNER OR GOVERNING AUTHORITIES WITHIN 48 HOURS OR SOONER IF REQUIRED AT NO ADDITIONAL COST TO THE OWNER.

4. CONTRACTOR WILL BE REQUIRED TO INCORPORATE PERMANENT EROSION CONTROL FEATURES INTO PROJECT AT EARLIEST PRACTICAL TIME TO MINIMIZE NEED FOR TEMPORARY CONTROLS.

5. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS REPRESENT A MINIMUM REQUIREMENT. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES NEEDED IN ORDER TO PREVENT THE TRANSFER OF SEDIMENT FROM THE PROJECT AREA AND PREVENT THE EROSION OF SURFACES DURING CONSTRUCTION, AS NEEDED TO PROTECT ADJACENT PROPERTIES AND WATER BODIES.

6. GRASS ALL DISTURBED AREAS WITHIN 7 DAYS OF INITIAL DISTURBANCE. TYPE OF GRASSING SHALL BE AS FOLLOWS: TEMPORARY GRASSING TO BE SOODING AT ALL DRAINAGE STRUCTURES, RETENTION AREAS, SWALES AND DITCHES, AND WHERE SLOPES ARE STEEPER THAN 6:1. TEMPORARY GRASSING CAN BE HYDROSEEDING OR SEED AND MULCH AT ALL OTHER LOCATIONS UNLESS OTHERWISE INDICATED IN THE DRAWINGS OR PERMITS.

7. INSPECT EVERY TWO WEEKS DURING CONSTRUCTION. REMOVE ANY SEDIMENT BUILDUP, REPAIR AND REINSTALL ANY DAMAGED OR MISSING SEDIMENT CONTROL MEASURES. INSTALL ADDITIONAL MEASURES IF INSPECTION REVEALS ADDITIONAL SEDIMENTATION CONTROL IS NEEDED.

AREAS TO BE PAVED SHALL BE TREATED WITH A BITUMINOUS PRIME COAT AND SANDED TO MINIMIZE EROSION, WHERE PAVING IS SCHEDULED TO OCCUR MORE THAN 48 HOURS AFTER INSTALLATION OF BASE COURSE. AREAS TO RECEIVE CONCRETE PAVING SHALL BE EITHER PROTECTED WITH A LAYER OF FOOT COURSE AGGREGATE MATERIAL OR SHALL BE PAVED WITHIN 48 HOURS OF INSTALLATION OF THE SUBGRADE. INSTALL FINAL SURFACE COURSES WITHIN 14 DAYS AFTER REMOVAL OF EXISTING PAVEMENT.

STORMWATER POLLUTION PREVENTION REQUIREMENTS
Note: These notes are only required for projects 1.0 acres or more in size.

1. CONSTRUCTION OF THIS PROJECT IS REQUIRED TO COMPLY WITH THE REQUIREMENTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) FDP GENERAL PERMIT FOR STORMWATER DISCHARGE FROM SMALL AND LARGE CONSTRUCTION ACTIVITIES.

2. IN ORDER TO MEET NPDES REQUIREMENTS, THE CONTRACTOR IS RESPONSIBLE FOR PREPARING A STORMWATER POLLUTION PREVENTION PLAN (SWPPP), IMPLEMENTING, INSPECTING, MAINTAINING, AND REPORTING ON ALL ELEMENTS OF THE SWPPP. COMPLETING AND SUBMITTING THE REQUIRED NOTICE OF INTENT (NOI) AND NOTICE OF TERMINATION (NOT) FORMS AS THE OPERATOR, AND PAYING ALL ASSOCIATED FEES. COPIES OF THE NPDES GENERAL PERMIT, NOI, AND NOT FORMS, AND PERMIT APPLICATION FEE INFORMATION ARE AVAILABLE FOR DOWNLOAD FROM FDP.

3. THE SWPPP SHALL LIST ALL THE CONTRACTORS OR SUBCONTRACTORS WHO WILL BE CONDUCTING CONSTRUCTION ACTIVITIES AT THE SITE, AND IDENTIFY THE AREAS OF THE SITE IN WHICH THEY WILL BE WORKING. ALL CONTRACTORS AND SUBCONTRACTORS IDENTIFIED IN THE SWPPP MUST SIGN A COPY OF THE CERTIFICATION STATEMENT CONTAINED IN THE SWPPP BEFORE CONDUCTING ANY CONSTRUCTION ACTIVITIES AT THE SITE. THE CERTIFICATIONS MUST HAVE THE NAME AND TITLE OF THE PERSON SIGNING THE CERTIFICATION, THE NAME, ADDRESS, AND TELEPHONE NUMBER OF THE CONTRACTING FIRM, AND THE SIGNATURE DATE. THESE STATEMENTS MUST BE MAINTAINED IN THE SWPPP FILE ON SITE.

4. THE SWPPP SHALL DESCRIBE AND ENSURE THE IMPLEMENTATION OF BEST MANAGEMENT PRACTICES WHICH WILL BE USED TO REDUCE THE POLLUTANTS IN STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY AND TO ASSURE COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE NPDES GENERAL PERMIT. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THESE DRAWINGS ARE THE MINIMUM REQUIRED THAT ARE TO BE INSTALLED PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY STANDARDS AND MAY NEED TO INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROLS TO MEET THESE REQUIREMENTS.

5. THE SWPPP SHALL BE COMPLETED PRIOR TO SUBMITTAL OF THE NOI AND SHALL INCLUDE THE ELEMENTS NECESSARY TO COMPLY WITH THE NPDES GENERAL PERMIT AND SHALL ALSO INCLUDE ALL LOCAL GOVERNING AGENCY AND OWNER REQUIREMENTS. THERE MAY BE MORE STRINGENT LOCAL GOVERNMENT OR OWNER REQUIREMENTS FOR EROSION AND SEDIMENT CONTROL, WHICH WOULD BE LOCATED IN THE SPECIFICATIONS OR ELSEWHERE ON THESE DRAWINGS.

6. THE CONTRACTOR MUST FILE THE NOI WITH FDP AND THE OWNER AT LEAST TWO (2) BUSINESS DAYS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL ALSO SUBMIT A COPY OF THE NOI TO THE MSA OPERATOR FOR ALL PROJECTS THAT DISCHARGE STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY TO A MUNICIPAL SEPARATE STORMWATER SYSTEM (MS4). A COPY OF THE NOI AND A DESCRIPTION OF THE PROJECT MUST BE POSTED IN A PROMINENT PLACE FOR PUBLIC VIEWING AT THE CONSTRUCTION SITE.

7. THE SWPPP MUST BE IMPLEMENTED AT THE START OF CONSTRUCTION. A COMPLETE COPY OF THE SWPPP, INCLUDING COPIES OF ALL INSPECTION REPORTS, PLAN REVISIONS, ETC. MUST BE RETAINED AT THE PROJECT SITE AT ALL TIMES DURING WORKING HOURS AND KEPT IN THE PERMANENT PROJECT RECORDS FOR AT LEAST THREE YEARS FOLLOWING SUBMISSION OF THE NOI.

8. FINAL STABILIZATION MEANS THAT ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED, AND THAT A UNIFORM PERENNIAL VEGETATIVE COVER (EVENLY DISTRIBUTED, WITHOUT LARGE BARE AREAS) WITH A DENSITY OF AT LEAST 70% FOR ALL UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES HAS BEEN ESTABLISHED OR EQUIVALENT PERMANENT STABILIZATION MEASURES (SUCH AS GEOTEXTILES) HAVE BEEN EMPLOYED. ONCE CONSTRUCTION IS COMPLETED AND FINAL STABILIZATION HAS BEEN ACHIEVED, THE CONTRACTOR MUST FILE THE NOI TO FDP, THE OWNER, AND THE MSA OPERATOR WITHIN 14 DAYS.

9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THE ADEQUACY OF SITE POLLUTANT DISCHARGE CONTROLS. BETWEEN THE TIME THE SWPPP IS IMPLEMENTED AND FINAL SITE STABILIZATION IS ACHIEVED, ALL DISTURBED AREAS AND POLLUTANT CONTROLS MUST BE INSPECTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS FOLLOWING A RAINFALL OF 0.5 INCHES OR GREATER. THE INSPECTIONS ARE TO BE CONDUCTED BY THE CONTRACTORS QUALIFIED DESIGNATED REPRESENTATIVE.

10. ALL INSPECTIONS SHALL BE DOCUMENTED IN AN INSPECTION REPORT THAT SUMMARIZES THE SCOPE OF THE INSPECTION, THE NAMES AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE OF THE INSPECTION, RAINFALL DATA, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE SWPPP, AND ACTIONS TAKEN IN ORDER TO ENSURE COMPLIANCE WITH NPDES REQUIREMENTS AND THE SWPPP. SUCH REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE AND ACTIONS TAKEN TO BRING THE PROJECT INTO COMPLIANCE. WHERE A REPORT DOES NOT IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE NPDES REQUIREMENTS AND THE SWPPP. EACH INSPECTION REPORT SHALL BE SIGNED AND CERTIFIED BY EACH INSPECTOR.

11. BASED ON INSPECTION RESULTS, ANY MODIFICATIONS NECESSARY TO INCREASE EFFECTIVENESS OF THE SWPPP TO AN ACCEPTABLE LEVEL MUST BE MADE WITHIN SEVEN CALENDAR DAYS OF THE INSPECTION.

12. THE SWPPP MUST BE UPDATED EACH TIME THERE ARE SIGNIFICANT MODIFICATIONS TO THE POLLUTANT PREVENTION SYSTEM OR A CHANGE OF CONTRACTORS WORKING ON THE PROJECT WHO DISTURBS THE SITE. FOR CONSTRUCTION ACTIVITIES WHERE THE OPERATOR CHANGES, THE NEW OPERATOR SHALL FILE AN NOI FOR COVERAGE UNDER THE GENERAL PERMIT AT LEAST TWO (2) DAYS BEFORE ASSUMING CONTROL OF THE PROJECT AND THE PREVIOUS OPERATOR SHALL FILE AN NOI TO TERMINATE THE PERMIT COVERAGE IN ACCORDANCE WITH THE NPDES GENERAL PERMIT. AMENDMENTS TO THE PLAN SHALL BE PREPARED, SIGNED, DATED, AND ATTACHED TO THE ORIGINAL SWPPP.

13. EACH SWPPP SHALL PROVIDE A DESCRIPTION OF POLLUTANT SOURCES AND OTHER INFORMATION INCLUDING A DESCRIPTION OF THE NATURE OF THE CONSTRUCTION ACTIVITY, THE INTENDED SEQUENCE OF MAJOR ACTIVITIES THAT DISTURB SOILS FOR MAJOR PORTIONS OF THE SITE, ESTIMATES OF THE TOTAL AREA OF THE SITE AND THE TOTAL AREA OF THE SITE THAT IS EXPECTED TO BE DISTURBED BY EXCAVATION, GRADING, OR OTHER CONSTRUCTION ACTIVITIES, EXISTING DATA REGARDING SOILS, AND THE INTENT TO PREVENT OR MINIMIZE SOIL DISTURBANCE. THE SWPPP SHALL ALSO PROVIDE A DRAINAGE AREA FOR EACH DISCHARGE POINT, A SITE MAP INDICATING DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED AFTER MAJOR GRADING ACTIVITIES, AREAS OF SOIL DISTURBANCE, AN OUTLINE OF AREAS WHICH MAY NOT BE DISTURBED, THE LOCATION OF MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS IDENTIFIED IN THE PLAN, THE LOCATION OF AREAS WHERE STABILIZATION PRACTICES ARE EXPECTED TO OCCUR, SURFACE WATERS, WETLANDS, AND LOCATIONS WHERE STORMWATER IS DISCHARGED TO A SURFACE WATER OR MSA, AND THE LATITUDE AND LONGITUDE OF EACH DISCHARGE POINT AND THE NAME OF THE RECEIVING WATERWAY FOR EACH DISCHARGE POINT.

14. THE FOLLOWING SITE DATA IS PROVIDED TO THE CONTRACTOR FOR USE IN PREPARING THE SWPPP AND COMPLETING THE NOI:

TOTAL AREA IMPACTED BY CONSTRUCTION: _____
EXISTING SITE SOILS: _____
DRAINAGE AREA CONTRIBUTING TO EACH DISCHARGE POINT: _____
LATITUDE AND LONGITUDE OF PROJECT LOCATION: _____
MS4 OPERATOR NAME: _____
RECEIVING WATERS: _____

15. STABILIZE ALL CONSTRUCTION SITE EXITS WITH COARSE AGGREGATE OR OTHER APPROVED MATERIALS IN ACCORDANCE WITH DETAILS IN THESE PLANS. OTHER MINIMUM CONSTRUCTION SLOPE FROM CONSTRUCTION ACTIVITIES THAT DISTURBS SOILS, CONSTRUCTION ROCK SURFACE TEMPORARY PARKING AREAS, INSTALLATION OF SEDIMENT BARRIERS DOWN SLOPE PRIOR TO CLEARING AND GRUBBING, INSTALLATION OF SEDIMENT BARRIERS ON THE DOWN SLOPE OF UTILITY CONSTRUCTION AND SOIL STOCKPILES, AND THE INSTALLATION OF SEDIMENT BARRIERS ON THE DOWN SLOPE SIDE OF GRADING ACTIVITIES.

16. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE, BUT IN NO CASE MORE THAN 7 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED.

17. THE OWNER HAS THE AUTHORITY TO LIMIT SURFACE AREA OF ERODIBLE EARTH MATERIAL EXPOSED BY CLEARING AND GRUBBING, EXCAVATION, TRENCHING, BORROW AND EMBANKMENT OPERATIONS. THE OWNER ALSO HAS AUTHORITY TO DIRECT CONTRACTOR TO PROVIDE IMMEDIATE PERMANENT OR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.

18. THE CONTRACTOR SHALL RESPOND TO EROSION AND SEDIMENT CONTROL MAINTENANCE REQUIREMENTS OR IMPLEMENT ADDITIONAL MEASURES TO CONTROL EROSION ORDERED BY OWNER OR GOVERNING AUTHORITIES WITHIN 48 HOURS OR SOONER IF REQUIRED AT NO ADDITIONAL COST TO THE OWNER.

19. THE CONTRACTOR SHALL INCORPORATE PERMANENT EROSION CONTROL FEATURES INTO PROJECT AT EARLIEST PRACTICAL TIME TO MINIMIZE NEED FOR TEMPORARY CONTROLS.

20. FOR DRAINAGE BASINS WITH 10 OR MORE DISTURBED ACRES AT ONE TIME, A TEMPORARY (OR PERMANENT) SEDIMENT BASIN PROVIDING 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED WHERE ATTAINABLE UNTIL FINAL STABILIZATION OF THE SITE. THE 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED SHALL BE PROVIDED AS EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. FOR DRAINAGE BASINS WITH 10 OR MORE DISTURBED ACRES AT ONE TIME AND WHERE A TEMPORARY SEDIMENT BASIN PROVIDING 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED IS NOT ATTAINABLE, THE CONTRACTOR SHALL PROVIDE TEMPORARY SEDIMENT TRAPS AND OTHER BMP'S SHOULD BE USED. AT A MINIMUM, SILT FENCES (SEDIMENT BARRIERS), OR EQUIVALENT SEDIMENT CONTROLS ARE REQUIRED FOR ALL SLOPE/SIDE AND DOWN/SLOPE BOUNDARIES OF THE CONSTRUCTION AREA.

21. WATER TRUCKS SHALL BE USED AS NEEDED DURING CONSTRUCTION TO REDUCE DUST GENERATED ON THE SITE. DUST CONTROL MUST BE PROVIDED BY THE CONTRACTOR AND SHALL BE IN COMPLIANCE WITH APPLICABLE LOCAL AND STATE DUST CONTROL REGULATIONS.

22. MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT CONSTRUCTION. REPAIR OR REPLACE ALL DAMAGED SEDIMENT BARRIERS. REMOVE ACCUMULATED SEDIMENT ALONG ALL SILT FENCES WHERE THE HEIGHT OF THE SEDIMENT EXCEEDS ONE-THIRD OF THE HEIGHT OF THE SILT FENCE. INSPECT ALL TEMPORARY AND PERMANENT GRASSING AREAS AND RE-GRASS WHERE THERE ARE BARE SPOTS, WASHOUTS, OR UNHEALTHY GROWTH.

23. AT THE COMPLETION OF CONSTRUCTION, ONCE FINAL STABILIZATION HAS BEEN ACHIEVED, CLEAN ALL ACCUMULATED SEDIMENT FROM ALL STORM STRUCTURES, PIPELINES, AND STORMWATER PONDS. REMOVE ALL TEMPORARY SEDIMENT CONTROLS UPON RECEIPT OF AUTHORIZATION TO REMOVE HAS BEEN RECEIVED FROM THE OWNER OR ENGINEER. NOTE THAT THIS MAY NOT OCCUR FOR SOME TIME AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED. IN ORDER TO ENSURE THEIR REMOVAL HAS NOT OCCURRED UNTIL FINAL STABILIZATION HAS BEEN ACHIEVED TO THE SATISFACTION OF THE OWNER AND ENGINEER.

24. NON-STORMWATER COMPONENTS OF SITE DISCHARGE MUST BE CLEAN WATER. WATER USED FOR CONSTRUCTION, WHICH DISCHARGES FROM THE SITE, MUST ORIGINATE FROM A PUBLIC WATER SUPPLY OR PRIVATE WELL APPROVED BY THE GOVERNING LOCAL AGENCY. WATER USED FOR CONSTRUCTION THAT DOES NOT ORIGINATE FROM AN APPROVED PUBLIC WATER SUPPLY MUST NOT BE DISCHARGED FROM THE SITE. ALLOWABLE NON-STORMWATER DISCHARGES INCLUDE DISCHARGES FROM FIRE FIGHTING ACTIVITIES, FIRE HYDRANT FLUSHING, WATER USED TO WASH VEHICLES OR CONTROL DUST, WATER FLOWING FROM POTABLE SOURCES AND WASH DOWNS, AND RINOFF FROM PAVEMENT. WASH DOWNS AND RINOFF FROM PAVEMENT ARE PROHIBITED IF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED (UNLESS ALL SPILLED MATERIAL HAS BEEN REMOVED) AND WHERE DETERGENTS HAVE NOT BEEN USED.

25. SOLID MATERIALS, INCLUDING BUILDING MATERIALS, ARE NOT ALLOWED TO BE DISCHARGED FROM THE SITE WITH STORMWATER. ALL SOLID WASTE, INCLUDING DISPOSABLE MATERIALS INCIDENTAL TO THE MAJOR CONSTRUCTION ACTIVITIES, MUST BE COLLECTED AND PLACED IN CONTAINERS. THE CONTAINERS SHALL BE EMPТИED PERIODICALLY BY A CONTRACT TRASH DISPOSAL SERVICE AND HALLED AWAY FROM THE SITE.

PAVING, SIDEWALKS, AND CURBING

- 1. MATERIALS AND CONSTRUCTION METHODS FOR THE ROADWAY AND PAVING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
2. ROADWAY PAVING, BASE, AND SUBGRADE THICKNESSES SHALL BE IN ACCORDANCE WITH DETAILS ON THESE DRAWINGS. MATERIAL STABILITY AND DENSITY REQUIREMENTS ARE AS FOLLOWS:
A. TYPE SP STRUCTURAL COURSE (SP-12.5)
B. LIMEROCK BASE: MINIMUM LBR OF 100, PLACED IN 6" MAXIMUM LIFTS, COMPACTED TO A MINIMUM DENSITY OF 98% OF THE MODIFIED PROCTOR DRY DENSITY (ASHTO T-99). CONTRACTOR MAY SUBSTITUTE ASPHALT BASE COURSE TYPE SP (MIN. STABILITY OF 1000 LBS) OR CRUSHED CONCRETE (PER FOOT SPECIFICATION SECTION 911, MIN LBR OF 150) AT NO ADDITIONAL COST, PROVIDED THE STRUCTURAL NUMBER EQUALS OR EXCEEDS THAT OF THE SPECIFIED LIMEROCK BASE.
C. SUBGRADE: STABILIZE TO A MIN. LBR OF 40. COMPACT TO A MINIMUM DENSITY OF 98% OF THE MODIFIED PROCTOR DRY DENSITY (ASHTO T-99). CONTRACTOR MAY SUBSTITUTE LIMEROCK SUBGRADE (MIN. LBR OF 100) OR CRUSHED CONCRETE (PER FOOT SPECIFICATION SECTION 911, MIN LBR OF 150) AT NO ADDITIONAL COST, PROVIDED THE STRUCTURAL NUMBER EQUALS OR EXCEEDS THAT OF THE SPECIFIED SUBGRADE.
3. SIDEWALKS ARE TO BE CONSTRUCTED IN THE AREAS AS SHOWN ON THE CONSTRUCTION PLANS. THE SIDEWALK SHALL BE CONSTRUCTED OF 4-IN THICK CONCRETE WITH A 28-DAY COMPRESSION STRENGTH OF 3000 PSI. SAWCUT 1/8-INCH JOINTS EVERY 5 FT ON CENTER (1.50-INCH DEEP). SAWCUT WITHIN 90 HOURS. SAWCUT 0.50-INCH JOINTS EVERY 30 FT ON CENTER (1.50-INCH DEEP). SAWCUT WITHIN 12 HOURS. FORM 0.50-INCH EXPANSION JOINTS EVERY 120 FT MAXIMUM SPACING ALONG SIDEWALK AND BETWEEN THE SIDEWALK AND THE CURB OR DRIVEWAY OR AT FIXED OBJECTS AND SIDEWALK INTERSECTIONS WITH A PREFORMED JOINT FILLER MEETING THE REQUIREMENTS OF FOOT SPECIFICATION 902. CONCRETE SIDEWALK SHALL BE 6-IN THICK ACROSS ALL DRIVEWAYS.
4. HANDICAPPED RAMPS SHALL BE PROVIDED AT ALL INTERSECTIONS AND SHALL BE IN ACCORDANCE WITH THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION, LATEST EDITION.
5. CURBING SHALL BE CONSTRUCTED WHERE NOTED ON THE CONSTRUCTION PLANS. CONCRETE FOR CURBS SHALL BE FDOT CLASS 11 CONCRETE WITH A 28-DAY COMPRESSION STRENGTH OF 3000 PSI. ALL CURBS SHALL HAVE SAW CUT CONTRACTION JOINTS AND SHALL BE CONSTRUCTED AT INTERVALS NOT TO EXCEED 17'-0" ON CENTER. CONSTRUCTION OF CURBS SHALL BE IN CONFORMANCE WITH FOOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) SECTION 520 AND DETAILS PROVIDED ON THE CONSTRUCTION PLANS.

FIELD COMPACTION DENSITY, STABILITY, AND THICKNESS TESTING FREQUENCIES OF SUB-BASE, BASE, AND ASPHALT SHALL BE TESTED ONCE EVERY 300 LINEAR FEET OF PAVING PER 24 FT WIDE STRIP, STAGGERED LEFT, CENTER AND RIGHT OF CENTERLINE, WHERE LESS THAN 300 LINEAR FEET OF SUB-BASE, BASE, AND ASPHALT IS PLACED IN ONE DAY. PROVIDE MIN. OF ONE TEST FOR EACH PAVED DAY'S CONSTRUCTION AT A LOCATION DESIGNATED BY THE ENGINEER. ASPHALT EXTRACTION GRADATION SHALL BE TESTED FROM GRAB SAMPLES COLLECTED ONCE EVERY 1800 SQUARE YARDS OF ASPHALT DELIVERED TO THE SITE (OR A MINIMUM OF ONCE PER DAY).

PAVING TIMING REQUIREMENTS

- 1. INSTALL SUBGRADE AND BASE COURSE MATERIALS WITHIN 48 HOURS OF THE REMOVAL/OPEN CUTTING OF EXISTING PAVEMENT CONSISTING OF STREETS, DRIVEWAYS, OR SIDEWALKS. INSTALL FINAL SURFACE COURSES WITHIN 14 DAYS AFTER REMOVAL OF EXISTING PAVEMENT.
2. AREAS TO RECEIVE ASPHALT SHALL RECEIVE EROSION CONTROL MEASURES NO LATER THAN 48 HOURS AFTER ACCEPTANCE OF BASE COURSE. TEMPORARY EROSION CONTROL CONSISTS OF PLACEMENT OF A BITUMINOUS PRIME COAT AND SANDING THE SURFACE. PERMANENT EROSION CONTROL CONSISTS OF PLACEMENT OF THE STRUCTURAL COURSE.
3. AREAS TO RECEIVE CONCRETE PAVING SHALL BE EITHER PROTECTED WITH A LAYER OF FOOT COARSE AGGREGATE MATERIAL OR SHALL BE PAVED WITHIN 48 HOURS OF ACCEPTANCE OF THE SUBGRADE.

SIGNS AND PAVEMENT MARKINGS

- 1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE 'MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES' AND THE LATEST IMPLEMENTED EDITION OF FOOT STANDARD PLANS FOR ROAD CONSTRUCTION, INDEX NO. 700-010, 700-101, 700-102, AND 711-011. GENERALLY, ALL MARKINGS SHALL CONFORM TO THE FOLLOWING: 6" EDGE LINES, 6" LANE LINES, 6" SINGLE CENTERLINES, AND 6" DOUBLE LINE PATTERNS, UNLESS OTHERWISE NOTED ON THE PLANS.
2. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC WITH RAISED PAVEMENT MARKERS. RAISED PAVEMENT MARKERS ARE TO BE IN ACCORDANCE WITH FOOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 970, CLASS B. INSTALLED IN ACCORDANCE WITH THESE PLANS AND FDOT INDEX NO. 706-001.
3. PARKING STALL PAVEMENT MARKINGS SHALL BE PAINTED. PAINT SHALL MEET THE REQUIREMENTS OF FDOT SPECIFICATION SECTION 971, NON-REFLECTIVE WHITE TRAFFIC PAINT.
4. ALL ROADWAY TRAFFIC SIGNS SHALL BE MANUFACTURED USING HIGH INTENSITY RETROREFLECTIVE MATERIALS. THE BACK OF ALL FINISHED PANELS SHALL BE STENCILED WITH THE DATE OF FABRICATION, THE FABRICATOR'S INITIALS, AND THE NAME OF THE SHEETING IN THREE-INCH LETTERS.
5. INTERNAL SITE TRAFFIC SIGNS ARE NOT REQUIRED TO BE RETROREFLECTIVE.
6. THE CONTRACTOR SHALL VERIFY THE REQUIRED LENGTH OF THE SIGN COLUMN SUPPORTS IN THE FIELD PRIOR TO FABRICATION.
7. ALL PAVEMENT MARKINGS REQUIRE LAYOUT APPROVAL IN THE FIELD BY THE ENGINEER PRIOR TO INSTALLATION.
PRIOR TO FINAL PAVEMENT MARKING INSTALLATION, A TWO WEEK CURE TIME OF THE ASPHALT IS REQUIRED.

HORIZONTAL DIRECTIONAL DRILLING

- 1. POLYETHYLENE PIPE AND FITTINGS FOR POTABLE WATER MAINS SHALL BE IN ACCORDANCE WITH AWWA C906, STANDARD CODE DESIGNATION STANDARD CODE DESIGNATION PE 3408. PIPE 4.30 INCH DIAMETER SHALL BE DR 11, PC 100. THE MANUFACTURER SHALL CERTIFY THAT THE MATERIALS USED TO MANUFACTURE PIPE AND FITTINGS MEET THESE REQUIREMENTS. THE PIPE SIZING SHALL BE IN ACCORDANCE WITH DUCTILE IRON SIZING SYSTEM (DID). PIPE USING THE NEWER ASTM DESIGNATIONS FOR THE MATERIAL IS ACCEPTABLE, PROVIDED IT IS STAMPED 'PE3408/PE4710 - AWWA C906'.
2. POLYETHYLENE PIPE AND FITTINGS FOR RECLAIMED WATER, SEWER FORCE MAIN, OR STORM SEWER SHALL BE IN ACCORDANCE WITH AWWA C906, STANDARD CODE DESIGNATION PE 4710, DR 11, 250 PSI. THE MANUFACTURER SHALL CERTIFY THAT THE MATERIALS USED TO MANUFACTURE PIPE AND FITTINGS MEET THESE REQUIREMENTS. THE PIPE SIZING SHALL BE IN ACCORDANCE WITH DUCTILE IRON PIPE SIZING SYSTEM (DIPS).
3. POLYETHYLENE PIPE AND TUBING USED FOR SERVICE LINES 1/2-INCH DIAMETER SHALL BE POLYETHYLENE IN ACCORDANCE WITH AWWA C901, STANDARD CODE DESIGNATION PE 4710, SDR 9 (OUTSIDE DIAMETER BASED DIMENSION RATIO), 250 PSI. PIPE AND FITTINGS SHALL BE NSF APPROVED FOR THE USAGE TO WHICH THEY ARE TO BE APPLIED. PIPE AND TUBING SHALL BE COLOR CODED BLUE FOR POTABLE WATER, PURPLE FOR RECLAIMED WATER, AND GREEN FOR SANITARY SEWER.
4. POLYETHYLENE MECHANICAL JOINT ADAPTERS AND FLANGE ADAPTERS SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA C906. MECHANICAL JOINT ADAPTERS SHALL BE FITTED WITH GLAND RINGS PRESSURE RATED EQUAL TO OR GREATER THAN THE MATING PIPE, AND SHALL BE MADE WITH SUFFICIENT THROUGH-BORE LENGTH TO BE CLAMPED IN A HEAT FUSION JOINING MACHINE WITHOUT THE USE OF SUB-END HOLDER. THE SEALING SURFACE OF THE FLANGE ADAPTER SHALL BE MACHINED WITH A SERIES OF SMALL V-SHAPED GROOVES TO PROVIDE GASKETLESS SEALING, OR TO RESTRAIN THE GASKET AGAINST BLOW-OUT.
5. HDPE PIPE TERMINATIONS SHALL BE FITTED WITH A MECHANICAL JOINT ADAPTER KIT THAT WILL ENABLE THE HDPE PIPE TO BE JOINED WITH MECHANICAL JOINT FITTINGS. THE ADAPTER SHALL BE AWWA COMPLIANT, AND THE PRESSURE RATING FOR THE ADAPTER SHALL MATCH THE PRESSURE RATING FOR THE HDPE PIPE. MECHANICAL JOINT ADAPTERS SHALL BE MANUFACTURED IN STANDARD DIPS SIZES FOR CONNECTING DIPS SIZES POLYETHYLENE PIPE TO MECHANICAL JOINT FITTINGS. SHALL CONTAIN A STAINLESS STEEL REINFORCING COLLAR AND AWWA C110 DUCTILE IRON GLAND RING, GASKET AND EXTRA LENGTH T-BOLTS.
6. GLANDS, BOLTS, AND GASKETS SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA C153. BOLTS AND NUTS SHALL BE GRADE 2 OR HIGHER.
7. ALL POLYETHYLENE PIPE SHALL BE BLACK, AND SHALL CONTAIN A CONTINUOUS COLORED STRIPE, 2 INCHES WIDE, LOCATED AT NO GREATER THAN 90 DEGREE INTERVALS AROUND THE PIPE. STRIPE COLOR SHALL BE EITHER BLUE (WATER MAINS), PURPLE (RECLAIMED WATER MAINS), GREEN (SANITARY SEWER AND FORCE MAINS) OR BLACK (NO STRIPE - STORM SEWER).
8. TRACER WIRE SHALL BE COLOR-CODED TO GAUGE CONTINUOUS INSULATED WIRE, WITH HDPE JACKET (MIN. THICKNESS OF 45 MILS) SPECIFICALLY MANUFACTURED FOR USE IN HORIZONTAL DIRECTIONAL DRILL INSTALLATIONS. THE COLOR OF THE WIRE JACKET SHALL BE SIMILAR TO PIPELINE IDENTIFICATION COLORS. INSTALL TRACER WIRE ALONG POLYETHYLENE PIPE PRIOR TO PULLING THROUGH BORE HOLE. TAPE WIRE TO PIPE EVERY 5 FEET MINIMUM ALONG THE PIPELINE. AFTER PULLING PIPE, CLEAN EXPOSED ENDS FOR INSTALLATION OF FITTINGS. TEST TRACER WIRE FOR CONTINUITY.
9. HIGH DENSITY POLYETHYLENE PIPE SHALL BE HEAT FUSED AND TESTED AS PER MANUFACTURER'S GUIDELINES BEFORE INSTALLATION IN THE BORE HOLE.
10. BRANCH CONNECTIONS TO THE MAIN SHALL BE MADE WITH POLYETHYLENE SADDLE FITTINGS OR MECHANICAL JOINT DUCTILE IRON TEES.
11. JOINTS BETWEEN PLAIN END POLYETHYLENE PIPES AND POLYETHYLENE FITTINGS SHALL BE MADE BY BUTT FUSION, AND JOINTS BETWEEN THE POLYETHYLENE MAIN AND SADDLE BRANCH POLYETHYLENE FITTINGS SHALL BE MADE USING SADDLE FUSION USING ONLY PROCEDURES THAT ARE RECOMMENDED BY THE PIPE AND FITTING MANUFACTURER. EXTERNAL AND INTERNAL BEADS SHALL NOT BE REMOVED.
12. CONNECT POLYETHYLENE PIPE TO HYDRANTS, VALVES, AND DUCTILE IRON FITTINGS USING A MECHANICAL JOINT ADAPTER WITH A GLAND RING. PLACE GLAND RING BEHIND ADAPTER PRIOR TO FUSING. FUSE USING AN ELECTROFUSION COUPLING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. AFTER FUSING, CONNECT TO MECHANICAL JOINT. RESTRAIN ALL NON-POLYETHYLENE PIPE AND PRESSURE TEST CONNECTIONS AS REQUIRED IN INDIVIDUAL PIPELINE GENERAL NOTES.
13. CONNECT POLYETHYLENE PIPE TO ABOVE GRADE VALVES AND FITTINGS USING MECHANICAL FLANGE ADAPTERS. THE FLANGE ADAPTERS ARE TO BE SELF-RESTRAINED.
14. INSTALL ALL MECHANICAL JOINTS AND FLANGE CONNECTIONS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PROCEDURE. AT LEAST 1 HOUR AFTER INITIAL ASSEMBLY, FLANGE CONNECTIONS SHALL BE RE-TIGHTENED FOLLOWING THE TIGHTENING PATTERN AND TORQUE STEP RECOMMENDATIONS OF THE MANUFACTURER. THE FINAL TIGHTENING TORQUE SHALL BE 100 FT-LBS OR LESS AS RECOMMENDED BY THE MANUFACTURER.
15. THE SIZE OF THE HORIZONTAL DIRECTIONAL DRILL RIG USED SHALL BE THE INDUSTRY STANDARD SIZE NEEDED BASED ON DRILLING DISTANCE, PIPE DIAMETER, AND SOIL CONDITIONS.
16. AT ROAD CROSSINGS WITHIN FOOT RIGHT-OF-WAY, THE MINIMUM COVER SHALL BE 10 TIMES THE REAMER SIZE IN INCHES UNDER THE PAVED SURFACE. ANY PROPOSED CHANGES TO THE DEPTH AND LENGTH OF THE DIRECTIONAL BORE FROM WHAT IS SHOWN ON THE DRAWINGS MUST BE APPROVED BY THE ENGINEER IN WRITING, PRIOR TO COMMENCEMENT OF DRILLING.
17. AT ROAD CROSSINGS WITHIN PUBLIC OR PRIVATE RIGHT-OF-WAY THAT IS NOT FOOT RIGHT-OF-WAY, THE MINIMUM COVER SHALL BE AS INDICATED IN THE DRAWINGS. IN NO CASE SHALL MAINS 4" AND LARGER HAVE LESS THAN 4 FEET COVER AT ROAD CROSSINGS. ANY PROPOSED CHANGES TO THE DEPTH AND LENGTH OF THE DIRECTIONAL BORE FROM WHAT IS SHOWN ON THE DRAWINGS MUST BE APPROVED BY THE ENGINEER IN WRITING, PRIOR TO COMMENCEMENT OF DRILLING.
18. IN ROAD RIGHT-OF-WAY IN NON-PAVED AREAS, THE MINIMUM DIRECTIONAL BORE DEPTH SHALL BE 4 FEET MINIMUM AND 8 FEET MAXIMUM (TYPICAL DEPTH OF 4-8 FEET), AS INDICATED ON THE DRAWINGS.
19. AS-BUILT VARIANCE FROM THE DESIGN BOREPATH SHALL BE WITHIN 2 FEET IN THE HORIZONTAL PLANE. VERTICALLY, INSTALL AT ROAD CROSSINGS AT THE MINIMUM DEPTH SPECIFIED HEREIN, AND INSTALL AT A MAXIMUM DEPTH OF NO MORE THAN 3-FT DEEPER THAN THE SPECIFIED MINIMUM DEPTH. ANY PROPOSED CHANGE TO THE LENGTH OF THE DIRECTIONAL DRILLED PIPELINE MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. FINAL ACCEPTANCE INCLUDING FINAL PAYMENT OF DIRECTIONAL BORE PIPELINE WILL NOT BE MADE UNTIL DIRECTIONAL BORE LOGS HAVE BEEN SUBMITTED AND THE INFORMATION ON THE BORE LOGS DOCUMENTS THE DEPTH OF THE INSTALLED PIPELINE IS IN ACCORDANCE WITH THESE GENERAL NOTES.
20. BACK REAMING SHALL BE CONDUCTED TO ENLARGE AND PREPARE THE BORE HOLE FOR PIPE INSTALLATION. MINIMIZE POTENTIAL DAMAGE FROM SOIL DISPLACEMENT OR SETTLEMENT BY LIMITING THE RATIO OF THE BORE HOLE TO THE PRODUCT SIZE. THE SIZE OF THE BACK REAMER BIT OR PILOT BIT, IF NO BACK REAMING IS REQUIRED, SHALL BE LIMITED RELATIVE TO THE PRODUCT DIAMETER TO BE INSTALLED AS FOLLOWS: 4" PIPE = 8" BIT; 6" PIPE = 10" BIT; 8" PIPE = 12" BIT; 10" PIPE = 14" BIT; 12" AND LARGER PIPE = BIT TO BE PIPE OUTSIDE DIAMETER PLUS 6 INCHES. NOTE THESE REAMER SIZES ARE APPROXIMATE. SHOULD THE DIRECTIONAL DRILL CONTRACTOR CHOOSE TO USE A LARGER REAMER SIZE, THE LARGER SIZE COULD RESULT IN THE NEED FOR A DEEPER AND LONGER BORE. THE RESULTING INCREASED BORE LENGTH AND OR DEPTH SHALL BE AT NO ADDITIONAL COST TO THE OWNER.
21. ENSURE ADEQUATE REMOVAL OF SOIL CUTTINGS AND STABILITY OF THE BORE HOLE BY MONITORING THE DRILLING FLUIDS SUCH AS THE PUMPING RATE, PRESSURES, VISCOSITY AND DENSITY DURING THE PILOT BORE, BACK REAMING AND PIPE INSTALLATION. OBTAIN THE ENGINEER'S APPROVAL OF THE LOCATION AND ALL CONDITIONS NECESSARY TO CONSTRUCT RELIEF HOLES TO RELIEVE EXCESS PRESSURE AND ENSURE THE PROPER DISPOSITION OF DRILLING FLUIDS IS MAINTAINED.
22. MINIMIZE HEAVING DURING PULL BACK. THE PULL BACK RATE USED SHALL MAXIMIZE THE REMOVAL OF SOIL CUTTINGS WITHOUT BUILDUP EXCESS DOWN HOLE PRESSURE. CONTAIN EXCESS DRILLING FLUIDS AT ENTRY AND EXIT POINTS UNTIL THEY ARE RECYCLED OR REMOVED FROM THE SITE OR VACUUMED DURING DRILLING OPERATIONS. ENTRY AND EXIT PITS ARE TO BE OF SUFFICIENT SIZE TO CONTAIN THE EXPECTED RETURN OF DRILLING FLUIDS AND SOIL CUTTINGS.
23. ENSURE THAT ALL DRILLING FLUIDS ARE DISPOSED OF OR RECYCLED IN A MANNER ACCEPTABLE TO THE APPROPRIATE LOCAL, STATE, OR FEDERAL REGULATORY AGENCIES. IF IN THE DRILLING PROCESS IT BECOMES EVIDENT THAT THE SOIL IS CONTAMINATED, CONTACT THE ENGINEER IMMEDIATELY. DO NOT CONTINUE DRILLING WITHOUT THE ENGINEER'S APPROVAL.
24. INSTALL THE CARRIER IN THE BORE HOLE WITHIN THE SAME DAY THAT THE PRE-BORE IS COMPLETED TO ENSURE STABILITY.
25. IF AN OBSTRUCTION IS ENCOUNTERED DURING BORING WHICH PREVENTS COMPLETION OF THE INSTALLATION IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, EITHER REMOVE THE PIPE OR ABANDON THE PIPE IN PLACE AT THE DISCRETION OF THE ENGINEER. IF PIPE CANNOT BE WITHDRAWN AND ENGINEER APPROVES ABANDONING THE PIPE IN PLACE, CUT PIPE OFF AT LEAST 3 FEET BELOW GROUND SURFACE, FILL ANNULAR SPACE AND PIPE

- WITH EXCAVATABLE FLOWABLE FILL AND CAP ENDS OF PIPE WITH BLIND FLANGE.
26. IN THE EVENT OF FAILURE TO INSTALL PIPE, RETAIN POSSESSION OF PIPE AND REMOVE IT FROM THE SITE. UPON APPROVAL OF THE ENGINEER, FILL THE ABANDONED BORE HOLE WITH EXCAVATABLE FLOWABLE FILL. SUBMIT A NEW INSTALLATION PROCEDURE AND REVISED PLANS TO THE ENGINEER FOR APPROVAL BEFORE RESUMING WORK AT ANOTHER LOCATION.
27. IF THE SUBMITTED BORING LOGS INDICATE THE INSTALLED ALIGNMENT DOES NOT MEET VERTICAL OR HORIZONTAL ALIGNMENT REQUIREMENTS, THE BORING IS CONSIDERED A FAILURE, AND THE DIRECTIONAL BORED PIPELINE SHALL BE EITHER RE-BORED OR OTHERWISE REMEDIATED AT THE DISCRETION OF THE OWNER.
28. IF, DURING CONSTRUCTION, DAMAGE IS OBSERVED TO THE FACILITY, CEASE ALL WORK UNTIL RESOLUTION TO MINIMIZE FURTHER DAMAGE AND A PLAN OF ACTION FOR RESTORATION IS OBTAINED AND APPROVED BY THE ENGINEER.
29. DISINFECT ALL POTABLE WATER MAINS IN ACCORDANCE WITH AWWA C651. ALL POLYETHYLENE WATER MAINS, FORCE MAINS, AND RECLAIMED WATER MAINS ARE TO BE PRESSURE TESTED. SUBJECT PIPELINE TO BE TESTED TO A 4 HOUR EXPANSION PHASE PRIOR TO COMMENCING LEAKAGE TESTING. PIPELINE EXPANSION SHALL BE ACCOMPLISHED BY APPLYING HYDROSTATIC TEST PRESSURE OF 150 PSI (WATER MAINS, RECLAIMED WATER MAINS) OR 100 PSI (FORCE MAINS). IN ORDER TO COMPENSATE FOR THE INITIAL EXPANSION OF THE PIPELINE, ADD SUFFICIENT MAKE-UP WATER AT HOURLY INTERVALS TO RETURN TO THE REQUIRED TEST PRESSURE. AT THE END OF THE FOURTH HOUR, THE TEST PHASE IS TO COMMENCE.
30. CONDUCT FIELD LEAK TESTING IN ACCORDANCE WITH ASTM F2164 AND AS INDICATED HEREIN. THE ASTM F2164 DEFINED ONE HOUR TEST AND PASSING TEST CRITERIA AND VISIBLE LEAKS AND THE PRESSURE IS MAINTAINED WITHIN 5% OF THE TEST PRESSURE DOES NOT APPLY TO THIS PROJECT. THE TEST PHASE SHALL CONSIST OF A TWO HOUR PRESSURE TEST, AS REQUIRED BY THE ENGINEER. AT THE END OF THE TEST PHASE, MEASURE THE AMOUNT OF MAKEUP WATER REQUIRED TO RETURN TO THE TEST PRESSURE. THE PIPELINE PASSES THE PRESSURE TEST IF THE MAKEUP WATER REQUIRED DOES NOT EXCEED THE FOLLOWING: 8" MAINS - ALLOWABLE MAKEUP WATER IS 0.6 GAL/100 FT OF PIPELINE TESTED; 8" MAINS - ALLOWABLE MAKEUP WATER IS 1.0 GAL/100 FT OF PIPELINE TESTED; 12" MAINS - ALLOWABLE MAKEUP WATER IS 2.3 GAL/100 FT OF PIPELINE TESTED; 16" MAINS - ALLOWABLE MAKEUP WATER IS 3.3 GAL/100 FT OF PIPELINE TESTED.
31. IF ANY DEFECTS OR LEAKS ARE REVEALED, THEY SHOULD BE CORRECTED AND THE PIPELINE RETESTED AFTER A MINIMUM 24 HOUR RECOVERY PERIOD BETWEEN TESTS. TOTAL TESTING CONDUCTED ON A SECTION OF PIPELINE SHALL NOT EXCEED 8 HOURS WITHIN A 24 HOUR PERIOD.

JACKING AND BORING

- 1. STEEL CASING PIPE SHALL CONFORM TO ASTM A139, GRADE "B" WITH MINIMUM YIELD STRENGTH OF 35,000 PSI. INTERIOR LINING OF PIPE SHALL BE A CORAL TAP LINING CONFORMING TO AWWA C203. EXTERIOR COATING OF PIPE SHALL BE EPOXY COATS OF HEAVY DUTY COAL TAR BASE COATING BUILT UP TO 30 MILS TOTAL DRY THICKNESS AND APPLIED IN ACCORDANCE WITH THE COATING MANUFACTURER'S RECOMMENDATIONS.
2. EACH SPACER SHALL BE 12 INCHES WIDE AND MANUFACTURED OF MINIMUM 14 GAUGE TYPE 304 STAINLESS STEEL OR 14 GAUGE STEEL WITH FUSION BONDED PVC COATING. SPACERS SHALL BE LINED WITH A 90 MIL PVC LINER. ALL NUTS AND BOLTS SHALL BE T-304 STAINLESS STEEL. EACH SPACER SHALL HAVE A MINIMUM OF 4 RUNNER SUPPORTS MANUFACTURED OF A HIGH MOLECULAR WEIGHT POLYMER PLASTIC. THE RUNNER SUPPORTS SHALL BE T304 STAINLESS STEEL, MINIMUM 10 GAUGE, OF ADEQUATE HEIGHT TO POSITION THE CARRIER PIPE IN THE CENTER OF CASING WITH A MINIMUM TOP CLEARANCE OF 0.5 INCHES.
3. ADD ON SECTIONS OF CASING PIPE SHALL BE FULL-RING WELDED TO THE PRECEDING LENGTH, DEVELOPING WATER-TIGHT TOTAL PIPE-STRENGTH JOINTS. ALL WELDING OF STEEL PIPE SHALL BE DONE BY COMPETENT, EXPERIENCED WELDERS. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AWWA C206.
4. UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION DRAWINGS, THE MINIMUM CASING PIPE NOMINAL DIAMETER SHALL BE BASED ON THE SIZE OF THE CARRIER PIPE NOMINAL DIAMETER AS FOLLOWS: 4" CARRIER PIPE: THE MINIMUM CASING IS 14"; 6" CARRIER PIPE: THE MINIMUM CASING IS 16"; 8" CARRIER PIPE: THE MINIMUM CASING IS 20"; 10" AND 12" CARRIER PIPE: THE MINIMUM CASING IS 24"; 14" AND 16" CARRIER PIPE: THE MINIMUM CASING IS 30"; 18" AND 20" CARRIER PIPE: THE MINIMUM CASING IS 36"; 24" CARRIER PIPE: THE MINIMUM CASING IS 42"; 30" CARRIER PIPE: THE MINIMUM CASING IS 48". CASING PIPE MINIMUM WALL THICKNESS SHALL BE AS FOLLOWS: 14" THROUGH 24" = 0.250"; 30" = 0.312"; 36" = 0.375"; 42" AND 48" = 0.500". AT RAILROAD CROSSINGS, UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION DRAWINGS, CASING PIPE WALL THICKNESS SHALL BE AS FOLLOWS: 14" = 0.250"; 16" = 0.281"; 20" = 0.344"; 24" = 0.375"; 30" = 0.469"; 36" = 0.532"; 42" = 0.625"; 48" = 0.688".
5. BORED INSTALLATIONS SHALL HAVE A HOLE DIAMETER WHICH SHALL NOT EXCEED THE O.D. OF THE CASING PIPE (INCLUDING COATING) BY MORE THAN ONE INCH WHERE UNSTABLE SOIL CONDITIONS ARE FOUND TO EXIST. BORING OPERATIONS SHALL BE CONDUCTED IN SUCH MANNER AS NOT TO BE DETRIMENTAL TO THE FACILITY BEING CROSSED. IF EXCESSIVE VOIDS OR TOO LARGE A BORED HOLE RESULTS, OR IT IS NECESSARY TO ABANDON A BORED HOLE, PROMPT REMEDIAL MEASURES SHALL BE TAKEN BY THE CONTRACTOR, SUBJECT TO APPROVAL BY THE ENGINEER AND THE CONTROLLING AGENCY OF THE FACILITY BEING CROSSED.
6. CORRECT LINE AND GRADE SHALL BE MAINTAINED. ADD ON SECTIONS OF CASING PIPE SHALL BE FULL RING WELDED TO THE PRECEDING LENGTH, DEVELOPING WATER-TIGHT TOTAL PIPE STRENGTH JOINTS. FOLLOWING PLACEMENT OF THE CARRIER PIPE, MASONRY PLUGS SHALL BE INSTALLED AT EACH OPEN END, WITH A KEEP HOLE INSTALLED NEAR THE BOTTOM OF THE PLUG.
7. UNLESS OTHERWISE SHOWN ON THE PLANS, INSTALL CASING AT MINIMUM OF 36-INCH COVER.
8. CARRIER PIPES INSIDE OF STEEL CASING PIPE SHALL BE SUPPORTED BY CASING SPACERS. CARRIER PIPE JOINTS INSIDE OF STEEL CASING PIPE SHALL BE RESTRAINED.
9. SPACERS ALONG DUCTILE IRON CARRIER PIPE SHALL BE PLACED NO MORE THAN 2 FEET FROM THE END OF THE CASING, WITH SUBSEQUENT SPACER PLACEMENT AT INTERVALS OF NO MORE THAN 10 FEET, OR AS RECOMMENDED BY THE CASING SPACER MANUFACTURER, WHICHEVER IS MORE STRINGENT.
10. SPACERS ALONG PVC CARRIER PIPE SHALL BE PLACED NEAR THE SPIGOT END OF EACH SEGMENT OF PIPE. WHEN THE JOINT IS COMPLETE, THE SPACER SHALL BE IN CONTACT WITH THE JOINT RESTRAINT ASSEMBLY SO THAT THE SPACER PUSHES THE RESTRAINT ASSEMBLY. SUBSEQUENT SPACER PLACEMENT ALONG PVC PIPE SHALL BE AT INTERVALS OF NO MORE THAN 6 FEET, OR AS RECOMMENDED BY THE CASING SPACER MANUFACTURER, WHICHEVER IS MORE STRINGENT.
11. STEEL CASING PIPE END SEALS SHALL BE AS MANUFACTURED BY ADVANCE PRODUCTS, CASCADE WATERWORKS OR CO PIPELINE SYSTEMS. THE END SEALS SHALL ACCOMMODATE THE CARRIER PIPE.
12. THE USE OF WOOD SKIDS IN LIEU OF SPACERS IS NOT ALLOWED.

THE CARRIER MAY BE PUSHED OR PULLED (DEPENDING UPON PIPING MATERIAL, JOINT TYPE AND METHOD OF PIPE SUPPORT) INTO THE CASING AS PIPE LENGTHS ARE ASSEMBLED. THE CARRIER SHALL BE ADEQUATELY BLOKED ALL AROUND TO PREVENT ANY MOVEMENT AND TO ATTAIN THE SPECIFIED GRADE FOR GRAVITY LINES. THE PROPOSED METHOD OF CARRIER PIPE INSTALLATION SHALL BE APPROVED BY THE ENGINEER PRIOR TO STARTING THE CROSSING.

ALL PIPES SHALL HAVE A VALID AND CURRENT STATE OF FLORIDA, DIVISION OF PLANT INDUSTRY (DPI) INSPECTION CERTIFICATION PRIOR TO BEING TRANSPORTED TO THE CONSTRUCTION SITE. SUBMIT THE DPI CERTIFICATION TO THE ENGINEER WITH A COPY OF THE CERTIFICATION MAINTAINED ONSITE WITH THE CONSTRUCTION RECORDS.

ALL TREES, SHRUBS AND SOG SHALL HAVE A VALID AND CURRENT STATE OF FLORIDA, DIVISION OF PLANT INDUSTRY (DPI) INSPECTION CERTIFICATION PRIOR TO BEING TRANSPORTED TO THE CONSTRUCTION SITE. SUBMIT THE DPI CERTIFICATION TO THE ENGINEER WITH A COPY OF THE CERTIFICATION MAINTAINED ONSITE WITH THE CONSTRUCTION RECORDS.



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This item has been digitally signed and sealed by Joshua D. Lockhart, PE on the date adjacent to the seal. Signature must be verified on any electronic copy.

Table with 10 columns for revision tracking, including Date, No., and Revision.

Designed: M. LOMELI
Drawn: D. COLLAZO
Checked: J. LOCKHART
Job No.: W131372
Date: 01/20/2025

SPECIFIC SITE NOTES
BIG BOX RETAIL AND FUEL STATION
WESTLAKE / PALM BEACH COUNTY / FLORIDA

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS.
Sheet No.
C0.4

GENERAL NOTES

- A. PROJECT OFFICE WALL SWPPP POSTINGS:**
THE FOLLOWING ITEMS MUST BE POSTED TOGETHER IN A SINGLE, ORGANIZED LOCATION ON A WALL INSIDE THE PROJECT OFFICE: 1) SWPPP SITE MAPS (ALL PHASES); 2) SWPPP DETAIL SHEETS; 3) MAP SHOWING LOCATION OF OFFSITE IMPORT OR EXPORT FACILITY; 4) REVISIONS TO DETAILS, SITE MAPS, OR SWPPP-RELATED RFIS; 5) SITE SWPPP BINDER; 6) SWCT PLACARD; 7) CURRENT OWNER STORMWATER COMPLIANCE TRAINING CERTIFICATES FOR SUPERINTENDENT(S) AND COMPLIANCE OFFICER(S); AND 8) CERTIFICATIONS AND/OR TRAINING CERTIFICATES REQUIRED TO PERFORM INSPECTIONS BY THE APPLICABLE CONSTRUCTION GENERAL PERMIT OR AUTHORITY HAVING JURISDICTION.
- B. PERMITTED PROJECT AREA:**
FOR PURPOSES OF THIS SWPPP AND ASSOCIATED STORMWATER PERMIT, 'PERMITTED PROJECT AREA' IS DEFINED AS ANY AND ALL AREAS WITHIN THE PROJECT LIMITS OF DISTURBANCE, AS SHOWN ON THE SWPPP SITE MAPS AND IDENTIFIED IN THE NOTICE OF INTENT TO THE AGENCY. ALL GROUND-DISTURBING AND CONSTRUCTION-RELATED ACTIVITIES (MATERIAL STORAGE, DUMPSTERS, PARKING AREAS, PROJECT OFFICE TRAILER, ETC.) MUST BE INCLUDED WITHIN THE PERMITTED PROJECT AREA LIMITS OF DISTURBANCE.
- OFFSITE AREA(S) TO BE DISTURBED AS PART OF THIS PROJECT (NOT ON OWNER PROPERTY): 1.80 AC
OFFSITE WORK INCLUDES CONNECTIONS TO EXISTING UTILITIES LOCATED IN THE NORTHERN ROW OF US HWY 98.
- ALL AREAS OUTSIDE THE PERMITTED PROJECT AREA (I.E., LIMITS OF DISTURBANCE) ACQUIRED FOR USE BY THE GC OR A SUBCONTRACTOR OF THE GC (BORROW SOURCES, DISPOSAL AREAS, ETC.) MUST BE MANAGED IN ACCORDANCE WITH APPENDIX E - TAB 21 OF THE 02370 SPECIFICATION. THE CONTRACTOR IS REQUIRED TO LOCATE OFFICE TRAILERS AND MATERIAL STORAGE AREAS FOR THE PROJECT WITHIN THE LIMITS OF DISTURBANCE. THE CONTRACTOR MAY REQUEST USE OF OFF-SITE LOCATIONS FOR OFFICE TRAILERS OR NON-ERODIBLE MATERIAL STORAGE; HOWEVER, APPROVAL MUST BE OBTAINED FROM THE CONSTRUCTION MANAGER, THE CEC AND THE WAL-MART SWCT PRIOR TO THEIR USE. REQUESTS WILL BE REVIEWED ON A CASE BY CASE BASIS AND IF APPROVED, LIMITATIONS ON USE WILL BE PROVIDED BY THE CEC.
- C. SPECIAL PROJECT VERIFY:**
THERE ARE NO SPECIAL PROJECTS, LOCATED BEYOND THE OWNER PERMITTED PROJECT AREA, REQUIRING INSPECTION AND MAINTENANCE ASSOCIATED WITH THIS CONSTRUCTION PROJECT.
- D.1 NON-STORMWATER DISCHARGES:**
THE GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES PROHIBITS MOST NON-STORMWATER DISCHARGES DURING THE CONSTRUCTION PHASE. ALLOWABLE NON-STORMWATER DISCHARGES THAT OCCUR DURING CONSTRUCTION ON THIS PROJECT, ARE INCLUDED IN PART 3.2 OF THE GENERIC PERMIT AND INCLUDE THE FOLLOWING, PROVIDED THAT THE NON-STORMWATER COMPONENT OF THE DISCHARGE IS IN COMPLIANCE WITH PART 1.5 OF THE GENERIC PERMIT.
- DISCHARGES FROM FIREFIGHTING ACTIVITIES.
 - FIRE HYDRANT FLUSHINGS.
 - WATERS WITHOUT DETERGENTS USED TO SPRAY OFF LOOSE SOLIDS FROM VEHICLES.
 - WATERS USED TO CONTROL DUST.
 - POTABLE WATER SOURCES SUCH AS WATERLINE FLUSHINGS.
 - LANDSCAPE IRRIGATION WATER AND DRAINAGE.
 - ROUTINE EXTERNAL BUILDING WASH-DOWN PROVIDED NO DETERGENTS ARE USED.
 - PAVEMENT WASHWATERS THAT DO NOT CONTAIN DETERGENTS, LEAKS, SPILLS OF TOXIC OR HAZARDOUS MATERIALS.
 - AIR CONDITIONING CONDENSATE.
 - SPRING WATER.
 - FOUNDATION OR FOOTING DRAIN FLOWS THAT ARE NOT CONTAMINATED WITH PROCESS MATERIAL SUCH AS SOLVENTS.
 - NONCONTAMINATED GROUND WATER ASSOCIATED WITH DEWATERING ACTIVITIES AS DESCRIBED IN PART 3.4.

BEST MANAGEMENT PRACTICES (BMPS) MUST BE IMPLEMENTED FOR THE GENERAL PERMIT ALLOWABLE DISCHARGES FOR THE DURATION OF THE PERMIT. THE TECHNIQUES DESCRIBED IN THIS SWPPP FOCUS ON PROVIDING CONTROL OF POLLUTANT DISCHARGES WITH PRACTICAL APPROACHES THAT UTILIZE READILY AVAILABLE EXPERTISE, MATERIAL, AND EQUIPMENT.

NON-STORMWATER COMPONENTS OF SITE DISCHARGES MUST BE UNCONTAMINATED NON-TURBID WATER. ALL NON-STORMWATER DISCHARGES MUST BE ROUTED TO A STORMWATER CONTROL PRIOR TO DISCHARGE. WATER USED FOR CONSTRUCTION WHICH DISCHARGES FROM THE SITE MUST ORIGINATE FROM A PUBLIC WATER SUPPLY OR PRIVATE WELL APPROVED BY THE STATE HEALTH DEPARTMENT. WATER USED FOR CONSTRUCTION THAT DOES NOT ORIGINATE FROM AN APPROVED PUBLIC SUPPLY MUST NOT DISCHARGE FROM THE SITE; IT CAN BE RETAINED IN RETENTION PONDS UNTIL IT INFILTRATES OR EVAPORATES. WHEN NON-STORMWATER IS DISCHARGED FROM THE SITE, IT MUST BE DONE IN A MANNER SUCH THAT IT DOES NOT CAUSE EROSION OF THE SOIL DURING DISCHARGE.

- D.2 POWER WASHING:**
PROCESS WATER SUCH AS POWER WASHING WATER AND CONCRETE CUTTING EFFLUENT, AMONG OTHERS, MUST BE COLLECTED FOR TREATMENT AND DISPOSAL. IT MUST NOT BE FLUSHED INTO THE SITE STORM DRAIN SYSTEM OR DISCHARGED OFF-SITE.

13.DISCHARGE POINTS:
ALL DISCHARGE POINTS MUST BE INSPECTED TO DETERMINE WHETHER EROSION AND SEDIMENTATION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING DISCHARGE OF SEDIMENT FROM THE SITE AND/OR IMPACTS TO RECEIVING WATERS. SEDIMENT ACCUMULATION DOWNGRADEMENT OF DISCHARGE LOCATIONS SHALL BE REPORTED AS A SEDIMENT DISCHARGE (SEE APPENDIX E - TAB 14, SEDIMENT RELEASES, OF THE 02370 SPECIFICATION) AND THE POTENTIAL UPSTREAM CAUSE SHALL BE INVESTIGATED TO PREVENT FUTURE OCCURRENCE. CONTACT THE CM, CEC AND SWCT TO DETERMINE APPROPRIATE ACTION FOR CLEANUP OF DISCHARGED SEDIMENT THAT MAY BE OUTSIDE OF THE LIMITS OF DISTURBANCE. SEE SAMPLING AND MONITORING OF EFFLUENT PLAN (IF APPLICABLE).

EROSION AND SEDIMENT CONTROL NOTES

- A.** CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THIS STORM WATER POLLUTION PREVENTION PLAN. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST OF OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
- B.** BEST MANAGEMENT PRACTICES (BMPS) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.
- C.** SITE MAP MUST CLEARLY DELINEATE ALL STATE WATERS. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.
- D.** CONTRACTOR TO LIMIT DISTURBANCE OF SITE IN STRICT ACCORDANCE WITH SWPPP IMPLEMENTATION SEQUENCE, OR AS REQUIRED BY THE APPLICABLE GENERIC PERMIT. NO UNNECESSARY OR IMPROPERLY SEQUENCED CLEARING AND/OR GRADING SHALL BE PERMITTED.
- E.** ALL DENUDED/BARE AREAS THAT WILL BE INACTIVE FOR 7 DAYS OR MORE, MUST BE STABILIZED IMMEDIATELY UPON COMPLETION OF MOST RECENT GRADING ACTIVITY, WITH THE USE OF FAST-GERMINATING ANNUAL GRASS/GRAIN VARIETIES, STRAW/HAY MULCH, WOOD CELLULOSE FIBERS, TACKIFIERS, NETTING AND/OR BLANKETS. COMPLETION MUST BE ACHIEVED WITHIN 7 DAYS.
- F.** DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY STABILIZED AS SHOWN ON THE PLANS. THESE AREAS SHALL BE SEEDED, SODDED, AND/OR VEGETATED IMMEDIATELY, AND COMPLETED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN.
- G.** SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION. TEMPORARY AND/OR PERMANENT STABILIZATION SHALL BE APPLIED PER REQUIREMENTS IN THESE E&S CONTROL NOTES.
- H.** DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION AND SEDIMENT CONTROL MEASURES (SILT FENCES, ETC.) TO PREVENT EROSION AND POLLUTANT DISCHARGE OFF-SITE.
- I.** ALL MEASURES STATED ON THIS SITE MAP, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED IN ACCORDANCE WITH THE SITE PLANS.
- J.** STORM WATER POLLUTANT CONTROL MEASURES INSTALLED DURING CONSTRUCTION, THAT WILL ALSO PROVIDE STORM WATER MANAGEMENT AFTER CONSTRUCTION, ARE INCLUDED IN THE CONTRACT DOCUMENTS. THE SITE-SPECIFIC POST CONSTRUCTION STORM WATER OPERATION AND MAINTENANCE (O&M) MANUAL IS INCLUDED IN THE CONTRACT DOCUMENTS.
- K.** ALL PERMANENT CONTROLS AND SYSTEMS MUST BE INSTALLED AND FUNCTIONING AS DESIGNED AND FREE OF ACCUMULATED SEDIMENT AND DEBRIS DURING FINAL PROJECT INSPECTION AND APPROVAL.

HAZARDOUS MATERIAL MANAGEMENT & SPILL REPORTING

ANY HAZARDOUS OR POTENTIALLY HAZARDOUS MATERIAL THAT IS BROUGHT ONTO THE CONSTRUCTION SITE SHALL BE HANDLED PROPERLY TO REDUCE THE POTENTIAL FOR STORMWATER POLLUTION. ALL MATERIALS USED ON THIS CONSTRUCTION SITE SHALL BE PROPERLY STORED, HANDLED, DISPENSED AND DISPOSED OF FOLLOWING ALL APPLICABLE LABEL DIRECTIONS. FLAMMABLE AND COMBUSTIBLE LIQUIDS SHALL BE STORED AND HANDLED ACCORDING TO APPLICABLE REGULATIONS, AND, AT A MINIMUM, ACCORDING TO 29 CFR 1926.152. ONLY APPROVED CONTAINERS AND PORTABLE TANKS SHALL BE USED FOR STORAGE AND HANDLING OF FLAMMABLE AND COMBUSTIBLE LIQUIDS.

MATERIAL SAFETY DATA SHEETS (MSDS) INFORMATION SHALL BE KEPT ON SITE FOR ANY AND ALL APPLICABLE MATERIALS. HOWEVER, MSDS MAY ALSO BE ACCESSED VIA TELEPHONE OR OTHER ELECTRONIC MEANS OR APPARATUS.

IN THE EVENT OF AN ACCIDENTAL SPILL, IMMEDIATE ACTION SHALL BE TAKEN BY THE GC TO CONTAIN AND REMOVE THE SPILLED MATERIAL. THE SPILL SHALL BE REPORTED TO THE APPROPRIATE AGENCIES IN THE REQUIRED TIME FRAMES. AS REQUIRED UNDER THE PROVISIONS OF THE CLEAN WATER ACT, ANY SPILL OR DISCHARGE ENTERING WATERS OF THE UNITED STATES SHALL BE PROPERLY REPORTED.

ALL HAZARDOUS MATERIALS, INCLUDING CONTAMINATED SOIL AND LIQUID CONCRETE WASTE, SHALL BE DISPOSED OF BY THE CONTRACTOR IN THE MANNER SPECIFIED BY FEDERAL, STATE AND LOCAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS.

THE GC SHALL PREPARE A WRITTEN RECORD OF ANY SPILL AND ASSOCIATED CLEAN-UP ACTIVITIES OF PETROLEUM PRODUCTS OR HAZARDOUS MATERIALS IN EXCESS OF 1 GALLON OR REPORTABLE QUANTITIES, WHICHEVER IS LESS, ON THE DAY OF THE SPILL. THE GC SHALL PROVIDE NOTICE TO OWNER, VIA THE ONLINE CRITICAL INCIDENT REPORT, IMMEDIATELY UPON IDENTIFICATION OF ANY SPILL. SPILL REPORT FORMS ARE AVAILABLE IN THE ONLINE SWPPP REPORTING SYSTEM PROVIDED BY THE OWNER. COPIES OF SPILL CRITICAL INCIDENT REPORTS SHALL BE PRINTED AND MAINTAINED IN THE JOBSITE BINDER.

ANY SPILLS OF PETROLEUM PRODUCTS OR HAZARDOUS MATERIALS IN EXCESS OF REPORTABLE QUANTITIES AS DEFINED BY EPA OR THE STATE OR LOCAL AGENCY REGULATIONS, SHALL BE IMMEDIATELY REPORTED TO THE EPA NATIONAL RESPONSE CENTER (1-800-424-8802) AND FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (1-800-320-0519, HTTP://DEP.STATE.FL.US/OEIR/REPORTABLE_INCIDENT.HTM)

THE STATE REPORTABLE QUANTITY FOR PETROLEUM PRODUCTS IS: 25 GALLONS OR ANY QUANTITY THAT COMES INTO CONTACT WITH STATE WATERS PER F.A.C. 62-780.210

DISCHARGES OF PETROLEUM OR PETROLEUM PRODUCTS OF LESS THAN 25 GALLONS THAT ARE NOT ADDRESSED PURSUANT TO SUBSECTION 62-780.560(1), F.A.C., SHALL BE REPORTED WITHIN ONE WEEK OF DISCOVERY. DISCHARGES OF PETROLEUM OR PETROLEUM PRODUCTS EQUAL TO, OR EXCEEDING, 25 GALLONS ONTO PERVIOUS SURFACES OR ANY DISCHARGE TO SURFACE WATERS SHALL BE REPORTED TO THE STATE WATCH OFFICE OR FDEP OFFICE OF EMERGENCY RESPONSE AS SOON AS POSSIBLE, BUT NO LATER THAN 24 HOURS AFTER OCCURRENCE. THE REPORTABLE QUANTITY FOR HAZARDOUS MATERIALS CAN BE FOUND IN 40 CFR 302 AND THE EPA LISTS AT HTTP://WWW2.EPA.GOV/EPCRA/CONSOLIDATED-LIST-LISTS.

TO MINIMIZE THE POTENTIAL FOR A SPILL OF PETROLEUM PRODUCT OR HAZARDOUS MATERIALS TO COME IN CONTACT WITH STORMWATER, THE FOLLOWING STEPS SHALL BE IMPLEMENTED:

- ALL MATERIALS WITH HAZARDOUS PROPERTIES, SUCH AS PESTICIDES, PETROLEUM PRODUCTS, FERTILIZERS, SOAPS, DETERGENTS, CONSTRUCTION CHEMICALS, ACIDS, BASES, PAINTS, PAINT SOLVENTS, ADDITIVES FOR SOIL STABILIZATION, CONCRETE, CURING COMPOUNDS AND ADDITIVES, ETC., SHALL BE STORED IN A SECURE LOCATION, UNDER COVER AND IN APPROPRIATE, TIGHTLY SEALED CONTAINERS WHEN NOT IN USE.
- THE MINIMUM PRACTICAL QUANTITY OF ALL SUCH MATERIALS SHALL BE KEPT ON THE JOB SITE AND SCHEDULED FOR DELIVERY AS CLOSE TO TIME OF USE AS PRACTICAL.
- A SPILL CONTROL AND CONTAINMENT KIT (CONTAINING FOR EXAMPLE, ABSORBENT MATERIAL SUCH AS KITTY LITTER OR SAWDUST, ACID, BASE, NEUTRALIZING AGENT, BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, PLASTIC AND METAL TRASH CONTAINERS, ETC.) SHALL BE PROVIDED AT THE CONSTRUCTION SITE AND ITS LOCATION(S) SHALL BE IDENTIFIED WITH LEGIBLE SIGNAGE AND SHOWN ON SITE MAPS.
 - THE SPILL CONTROL AND CONTAINMENT KIT SUPPLIES SHALL BE OF SUFFICIENT QUANTITIES AND APPROPRIATE CONTENT TO CONTAIN A SPILL FROM THE LARGEST ANTICIPATED PIECE OF EQUIPMENT AND FROM THE LARGEST ANTICIPATED QUANTITIES OF PRODUCTS STORED ON THE SITE AT ANY GIVEN TIME.
 - CONTENTS SHALL BE INSPECTED DAILY DURING THE DAILY STORMWATER INSPECTION.
- ALL PRODUCTS SHALL BE STORED IN AND USED FROM THE ORIGINAL CONTAINER WITH THE ORIGINAL PRODUCT LABEL. CONTAINERS MUST BE STORED IN A MANNER TO PROTECT THEM FROM THE ELEMENTS AND INCIDENTAL DAMAGE.
- ALL PRODUCTS SHALL BE USED IN STRICT COMPLIANCE WITH INSTRUCTIONS ON THE PRODUCT LABEL.
- THE DISPOSAL OF EXCESS OR USED PRODUCTS SHALL BE IN STRICT COMPLIANCE WITH INSTRUCTIONS ON THE PRODUCT LABEL AND REGULATIONS.



USGS QUADRANGLE MAP
NTS



SITE LOCATION MAP
NTS



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A Full Service A & E Firm

JOSHUA D. LOCKHART, P.E.
FL P.E. #74011

This item has been digitally signed and sealed by Joshua D. Lockhart, PE on the date adjacent to the seal. Signature must be verified on any electronic copies

No.	Date	PER DEVELOPER COMMENTS	Revision
1	02/02/26		

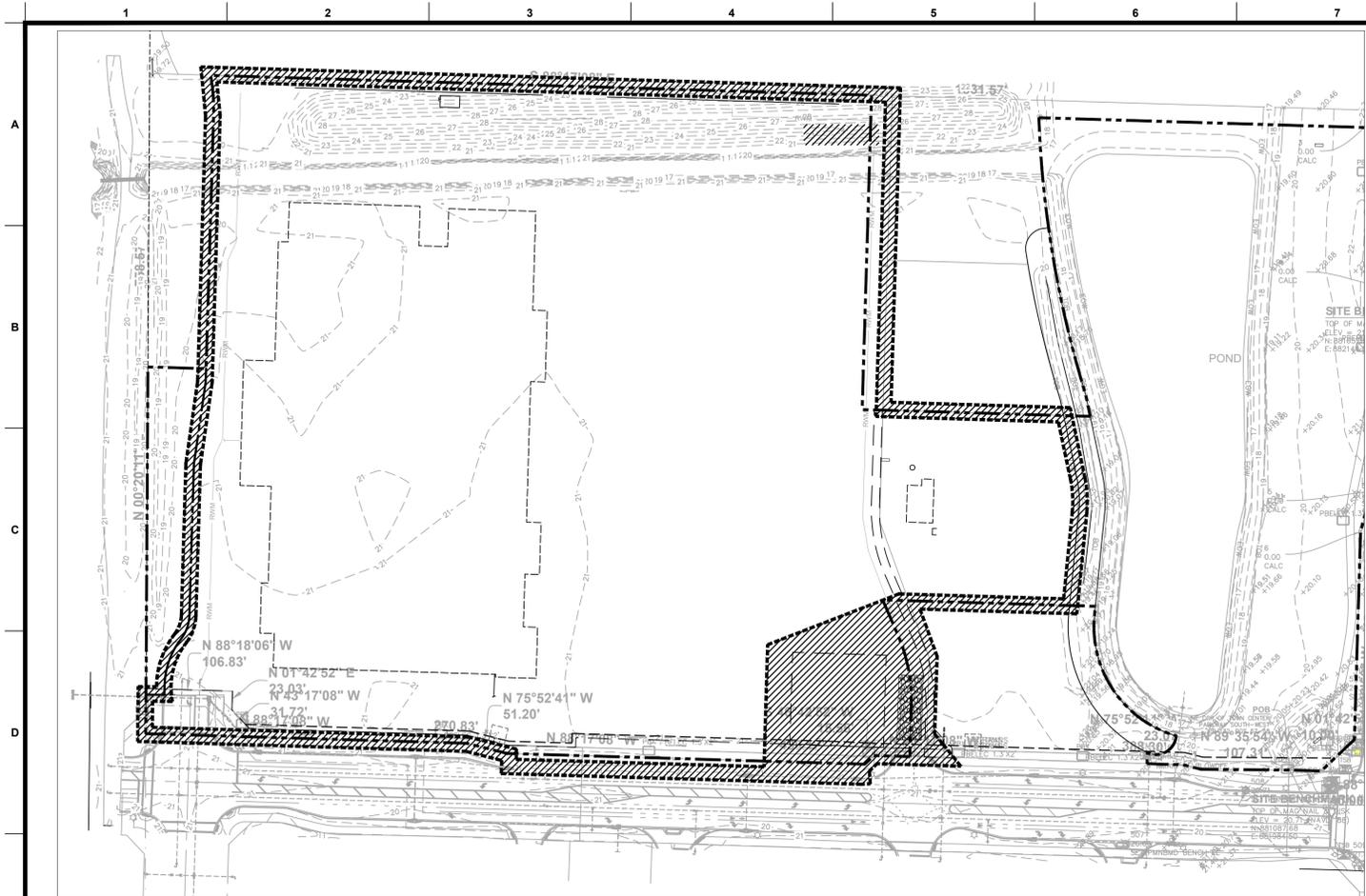
Designed: M. LOMELI
Drawn: D. COLLAZO
Checked: J. LOCKHART
Job No.: W131372
Date: 01/2025 © 2026

SWPPP NOTES
BIG BOX RETAIL AND FUEL STATION
WESTLAKE / PALM BEACH COUNTY / FLORIDA

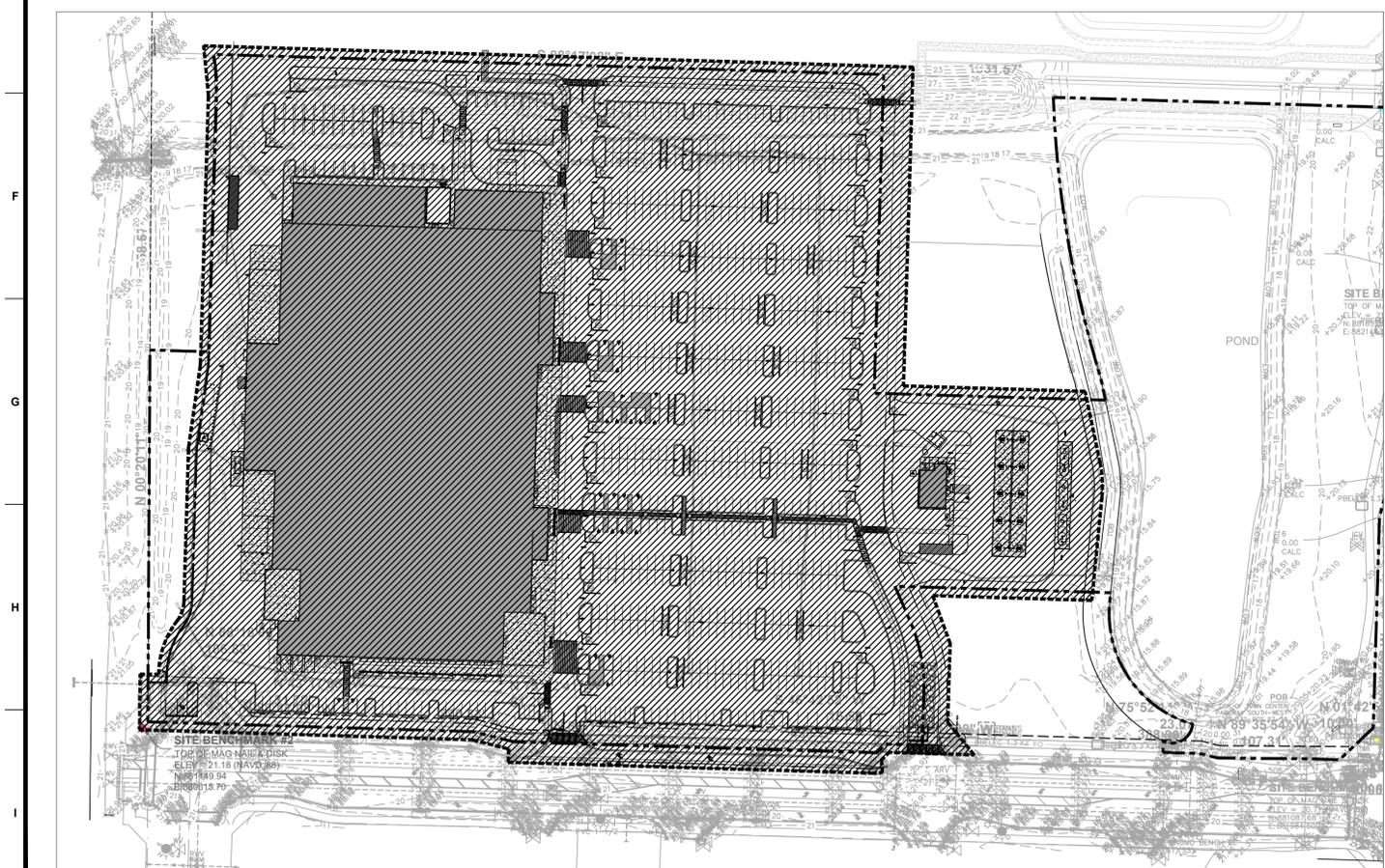
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PHASE 1 LIMITS OF WORK



PHASE 2 LIMITS OF WORK

LEGEND
 - - - - - LIMITS OF DISTURBANCE
 - - - - - PERMITTED LIMITS OF DISTURBANCE
 // // // // // LIMITS OF WORK

SWPPP IMPLEMENTATION SEQUENCE

NOTE: UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAY DOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, MASON'S AREA, FUEL AND MATERIAL STORAGE AREAS/CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS. IN ADDITION, NOTE ALL AREAS WHERE FILL IS IMPORTED FROM OR SOIL IS EXPORTED TO ON THE SITE MAPS.

NOTE: DOWN SLOPE PROTECTIVE MEASURES MUST ALWAYS BE IN PLACE BEFORE SOIL IS DISTURBED. ACTIVITIES ARE PRESENT IN THE ORDER OR SEQUENCE IN WHICH THEY ARE REQUIRED TO BE COMPLETED.

PHASE 1

1. INSTALL THE SWPPP INFORMATION SIGN AND POST REQUIRED DOCUMENTS NEAR THE PLANNED CONSTRUCTION EXIT, AND WITHIN EASY ACCESS TO THE GENERAL PUBLIC WITHOUT ENTERING THE SITE.
2. STAKE/FLAG THE LOD (WHERE STAKING IS NOT POSSIBLE/PRACTICAL, THE LOD MUST BE CONSPICUOUSLY, AND PROMINENTLY, MARKED TO DENOTE THE BOUNDARY). LOD MUST REMAIN CONSPICUOUSLY MARKED THROUGHOUT THE ENTIRE CONSTRUCTION PROJECT.
3. INSTALL PERIMETER SEDIMENT CONTROL BMPs IN THE VICINITY OF, AND DOWN GRADIENT FROM, THE LOCATION OF THE PLANNED CONSTRUCTION EXIT, CONSTRUCTION OFFICE TRAILER, AND TEMPORARY PARKING AND STORAGE AREAS. CLEAR ONLY THE MINIMUM AREA ABSOLUTELY NECESSARY TO INSTALL THESE PERIMETER CONTROL BMPs.
4. INSTALL STABILIZED CONSTRUCTION EXIT(S) WITH SEDIMENT TRAPS, AND SET THE PROJECT OFFICE TRAILER.
5. INSTALL REMAINING PERIMETER SEDIMENT CONTROL BMPs, AS SHOWN ON THE SITE MAPS. CLEAR ONLY THE MINIMUM AREA NECESSARY TO INSTALL PERIMETER CONTROL BMPs.
6. PREPARE TEMPORARY PARKING AND STORAGE AREA.
7. HALT ALL ACTIVITIES

CONTACT THE CEC TO PERFORM INSPECTION AND CERTIFICATION OF BMPs. BMP CERTIFICATION MUST OCCUR BEFORE STORMWATER PRE-CONSTRUCTION MEETING. (THIS MAY SHOULD BE SCHEDULED IN ADVANCE, IN ANTICIPATION OF THE EXPECTED DATE WHEN THE ABOVE SEQUENCE ITEMS WILL BE COMPLETED.)

ALL EXCEPTIONS NOTED ON THE BMP CERTIFICATION FORM MUST BE ADDED AS DEFICIENCIES WITHIN THE BMP CERTIFICATION FORM AND RESOLVED WITHIN 24-HOURS. BMPs MUST NOT BE CERTIFIED IF ONE OR MORE OF THE EXCEPTIONS WILL NOT BE RESOLVED WITHIN 24-HOURS OF THE BMP CERTIFICATION BY THE CEC.

IF THE CEC IS UNABLE TO CERTIFY THAT SITE CONDITIONS ARE PER PLANS AND SPECIFICATIONS, THE CERTIFICATION OF BMPs MUST BE RESCHEDULED. THE STORMWATER PRE-CONSTRUCTION MEETING MAY ONLY OCCUR AFTER BMPs CAN BE CERTIFIED.

GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT THE STORMWATER PRE-CONSTRUCTION MEETING WITH THE CEC, OWNER'S CONSTRUCTION MANAGER, AGENCY(IES) AND SUBCONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.

DAILY STORMWATER INSPECTION REPORTS IN THE ONLINE SWPPP REPORTING SYSTEM PROVIDED BY THE OWNER MUST START ON THE NEXT BUSINESS DAY AFTER THE SITE BMPs & PRECONSTRUCTION MEETING CERTIFICATION IS SIGNED/CERTIFIED BY THE CEC.

8. INSTALL AND STABILIZE SEDIMENT TRAP.

PHASE 2

1. BEGIN CLEARING, GRUBBING, AND STRIPPING THE SITE. (PHASE CLEARING AND GRUBBING TO THE EXTENT PRACTICAL TO MINIMIZE THE AMOUNT OF AREA DISTURBED AT ANY POINT IN TIME)
2. BEGIN GRADING THE SITE.
3. START CONSTRUCTION OF BUILDING PAD AND STRUCTURES.
4. TEMPORARILY STABILIZE, THROUGHOUT CONSTRUCTION IMMEDIATELY FOLLOWING THE COMPLETION OF THE MOST RECENT LAND DISTURBING/GRADING ACTIVITY, ANY DISTURBED AREAS, INCLUDING MATERIAL STOCKPILES THAT ARE SCHEDULED OR LIKELY TO REMAIN INACTIVE FOR 7 DAYS OR MORE.
5. IMMEDIATELY PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
6. INSTALL ROCK CHECK DAMS AND WEIGHTED WADDLES AS REQUIRED AS CONSTRUCTION PROGRESSES.
7. INSTALL UTILITIES, UNDERDRAINS, STORM SEWERS, CURBS AND GUTTERS.
8. INSTALL RIP RAP AROUND OUTLET STRUCTURES AS EACH OUTLET STRUCTURE IS INSTALLED.
9. INSTALL INLET PROTECTION AT ALL STORM SEWER STRUCTURES AS EACH INLET STRUCTURE IS INSTALLED.
10. PREPARE SITE FOR PAVING.
11. PAVE SITE.
12. INSTALL APPROPRIATE INLET PROTECTION DEVICES FOR PAVED AREAS AS WORK PROGRESSES, PER BMP DETAILS.
13. COMPLETE GRADING AND INSTALLATION OF PERMANENT STABILIZATION OVER ALL AREAS, INCLUDING OUT LOTS AND PONDS.
14. OBTAIN CONCURRENCE FROM THE OWNER CONSTRUCTION MANAGER (CM) THAT THE SITE HAS BEEN FULLY STABILIZED AND ALL CONSTRUCTION HAS BEEN COMPLETED, THEN:
 - A. REMOVE ALL REMAINING TEMPORARY EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs),
 - B. STABILIZE ANY AREAS DISTURBED BY THE REMOVAL OF TEMPORARY BMPs, AND
 - C. ASK THE CM TO CONTACT THE CEC TO COMPLETE THE CEC PRE-NOT SITE INSPECTION AND REPORT (ONLY CM MAY DO THIS).
15. CONTINUE DAILY INSPECTIONS AND REPORTS UNTIL THE CM FINAL DAILY INSPECTION REPORT, MARKED 'READY TO TERMINATE PERMIT', IS SIGNED BY THE CONSTRUCTION MANAGER AND SUBMITTED VIA THE ONLINE SWPPP REPORTING SYSTEM PROVIDED BY THE OWNER.

NOTE: THE GENERAL CONTRACTOR MAY COMPLETE CONSTRUCTION-RELATED ACTIVITIES CONCURRENTLY, ONLY IF ALL PRECEDING BMPs AND STABILIZATION ACTIVITIES HAVE BEEN COMPLETELY INSTALLED. BMP-RELATED STEPS IN THE ABOVE SEQUENCE ARE BOLDED FOR CLARITY. THE CEC MUST APPROVE, IN WRITING, ANY CHANGES IN THE ABOVE SWPPP IMPLEMENTATION SEQUENCE, BEFORE THEIR IMPLEMENTATION BEGINS.

THE ESTIMATED DATES OF IMPLEMENTATION OF POLLUTION CONTROL MEASURES SHALL BE DOCUMENTED BY THE CONTRACTOR ON THE SOIL EROSION/SEDIMENTATION CONTROL OPERATION TIME SCHEDULE ON SHEET C-7.

MINIMIZATION OF DISTURBED AREAS:

1. CONTRACTOR SHALL MANAGE CONSTRUCTION ACTIVITIES TO REDUCE EROSION AND RETAIN SEDIMENT AND OTHER POLLUTANTS IN THE SOIL AT THE CONSTRUCTION SITE.
2. CONTRACTOR SHALL MINIMIZE THE TIME BARE SOIL IS EXPOSED.
3. CONTRACTOR SHALL MINIMIZE SITE DISTURBANCE BY MINIMIZING THE EXTENT OF GRADING AND CLEARING TO EFFECTIVELY REDUCE SEDIMENT YIELD.

NOTE TO GC: OWNER HAS AUTHORITY AT ANY TIME TO LIMIT SURFACE AREA OF ERODIBLE EARTH MATERIAL EXPOSED BY CLEARING AND GRUBBING, EXCAVATION, BORROW AND EMBANKMENT OPERATIONS AND TO DIRECT THE GC TO PROVIDE IMMEDIATE PERMANENT OR TEMPORARY POLLUTION CONTROL MEASURES.

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JOSHUA D. LOCKHART, P.E.
 F.L.P.E. #74011

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No.	Date	Revision
1	02/02/26	PER DEVELOPER COMMENTS

Designed: M. LOMELI
 Drawn: D. COLLAZO
 Checked: J. LOCKHART
 Job No.: W131372
 Date: 01/2025 © 2026

SWPPP IMPLEMENTATION AND LIMITS OF WORK

BIG BOX RETAIL AND FUEL STATION

WESTLAKE / PALM BEACH COUNTY / FLORIDA

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS.

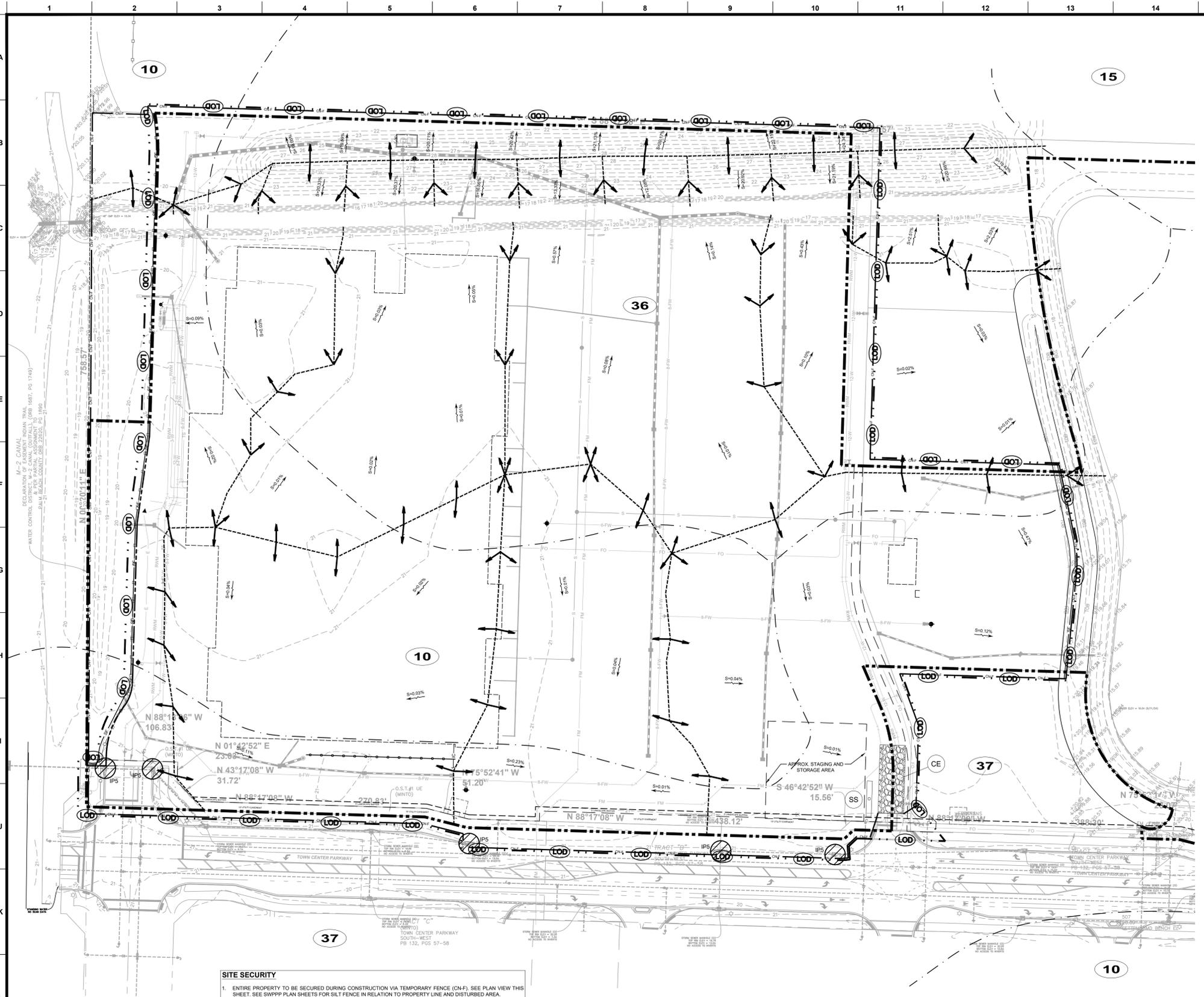
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No.	Date	Revision
1	02/02/26	PER DEVELOPER COMMENTS

Designed: M. LOMELI
 Drawn: D. COLLAZO
 Checked: J. LOCKHART
 Job No.: W131372
 Date: 01/2025 © 2026

**PH 1 EROSION AND SEDIMENTATION
 CONTROL PLAN**
BIG BOX RETAIL AND FUEL STATION
 WESTLAKE / PALM BEACH COUNTY / FLORIDA

THIS SHEET NOT VALID FOR
 CONSTRUCTION WITHOUT
 COMPLETE SET OF PLANS.



TEMPORARY BENCHMARK
 THE SITE BENCHMARK IS THE TOP OF MAG NAIL & DISC LOCATED OFF THE EXISTING PAVEMENT
 NEAR THE SOUTHWEST CORNER OF THE PROPERTY
 NORTHING: 881149.94
 EASTING: 880615.70
 ELEV.: = 21.18 (NAVD 88')

SWPPP UPDATES AND AMENDMENTS
 THE GC MUST UPDATE THE SWPPP, INCLUDING THE JOBSITE BINDER AND SITE MAPS, TO REFLECT THE PROGRESS OF CONSTRUCTION ACTIVITIES AND GENERAL CHANGES TO THE PROJECT SITE. UPDATES SHALL BE MADE DAILY TO TRACK PROGRESS WHEN ANY OF THE FOLLOWING ACTIVITIES OCCUR: BMP INSTALLATION, MODIFICATION OR REMOVAL, CONSTRUCTION ACTIVITIES (E.G. PAVING, STORM SEWER INSTALLATION, FOOTING INSTALLATION, ETC.), CLEARING, GRUBBING OR GRADING, OR TEMPORARY OR PERMANENT STABILIZATION.

IMPORTANT:
 THE GENERAL CONTRACTOR MUST SUBMIT A REQUEST FOR INFORMATION (RFI) TO THE CEC AND OBTAIN WRITTEN CEC APPROVAL BEFORE DOING ANY OF THE FOLLOWING:

1. MODIFYING EROSION OR SEDIMENT CONTROL BMPs (SUBSTITUTIONS ARE TYPICALLY ONLY APPROVED IF SPECIFIED MATERIALS ARE NOT AVAILABLE OR THERE IS A VALID REASON THE SPECIFIED BMP WILL NOT WORK)
2. ADDING/DELETING EROSION OR SEDIMENT CONTROL BMPs;
3. MODIFYING THE SWPPP IMPLEMENTATION SEQUENCE; OR
4. PERFORMING ANY ACTIONS OR IN ANY MANNER THAT IS CONTRARY TO THE SWPPP.

THE CONTRACTOR MAY MODIFY OR ADD ADDITIONAL BMPs, WITHOUT CEC APPROVAL, IN AN EMERGENCY SITUATION TO PREVENT SEDIMENT DISCHARGE OR PROTECT WATER QUALITY; HOWEVER, GC MUST NOTIFY THE CEC AS SOON AS PRACTICAL AS TO THEIR ACTIONS TO DISCUSS THE NEED FOR ADDITIONAL OR SUPPLEMENTAL MEASURES AND TO OBTAIN THE REQUIRED APPROVALS. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE TO ENSURE COMPLIANCE WITH THE PERMIT AND PROTECTION OF DOWNSTREAM WATER QUALITY.

AMENDING THE SWPPP DOES NOT MEAN THAT IT HAS TO BE REPRINTED. IT IS ACCEPTABLE TO ADD ADDENDA, SKETCHES, NEW SECTIONS, DETAILS, AND/OR REVISED DRAWINGS THAT HAVE THE CEC NAME IN PRINT, ARE STAMPED, SIGNED, DATED, AND ARE ACCOMPANIED BY WRITTEN COPY OF THE ASSOCIATED RFI AND ITS RESPONSE FROM CEC. ENGINEERED ITEMS MUST BE SIGNED AND STAMPED BY THE CEC OF RECORD FOR THE PROJECT.

LEGEND

- SITE FEATURES:**
- PROPERTY LINE
 - LEASE LINE
 - RIGHT OF WAY LINE
 - LOD LIMITS OF DISTURBANCE
 - EXISTING CONTOUR
 - EXISTING STORM PIPE
 - DIRECTION OF OVERLAND FLOW
 - LIMITS OF DRAINAGE SUB-BASIN
 - SOIL BOUNDARY

- EROSION DETAILS:**
- CE TEMPORARY CONSTRUCTION EXIT
 - SF SEDIMENTATION SILT FENCE WITH WIRE BACKING
 - SS SWPPP INFORMATION SIGN
 - ST TEMPORARY SEDIMENT TRAP
 - IP5 INLET PROTECTION GUTTER BUDDY

- EROSION NOTES:**
- 10 SOIL TYPE: CYPRESS LAKE FINE SAND, 0 TO 2% SLOPES
 - 15 SOIL TYPE: FLORIDANA FINE SAND, 0 TO 1% SLOPES
 - 36 SOIL TYPE: RIVIERA FINE SAND, 0 TO 2% SLOPES
 - 37 SOIL TYPE: RIVIERA FINE SAND, 0 TO 1% SLOPES
 - TS TEMPORARY SEEDING AND MULCH

- SITE SECURITY:**
- CNF TEMPORARY CONSTRUCTION FENCE

SITE SECURITY
 1. ENTIRE PROPERTY TO BE SECURED DURING CONSTRUCTION VIA TEMPORARY FENCE (CNF). SEE PLAN VIEW THIS SHEET. SEE SWPPP PLAN SHEETS FOR SILT FENCE IN RELATION TO PROPERTY LINE AND DISTURBED AREA.

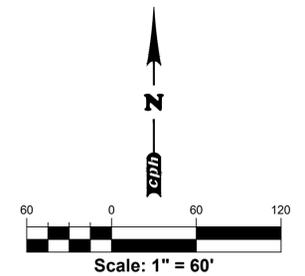
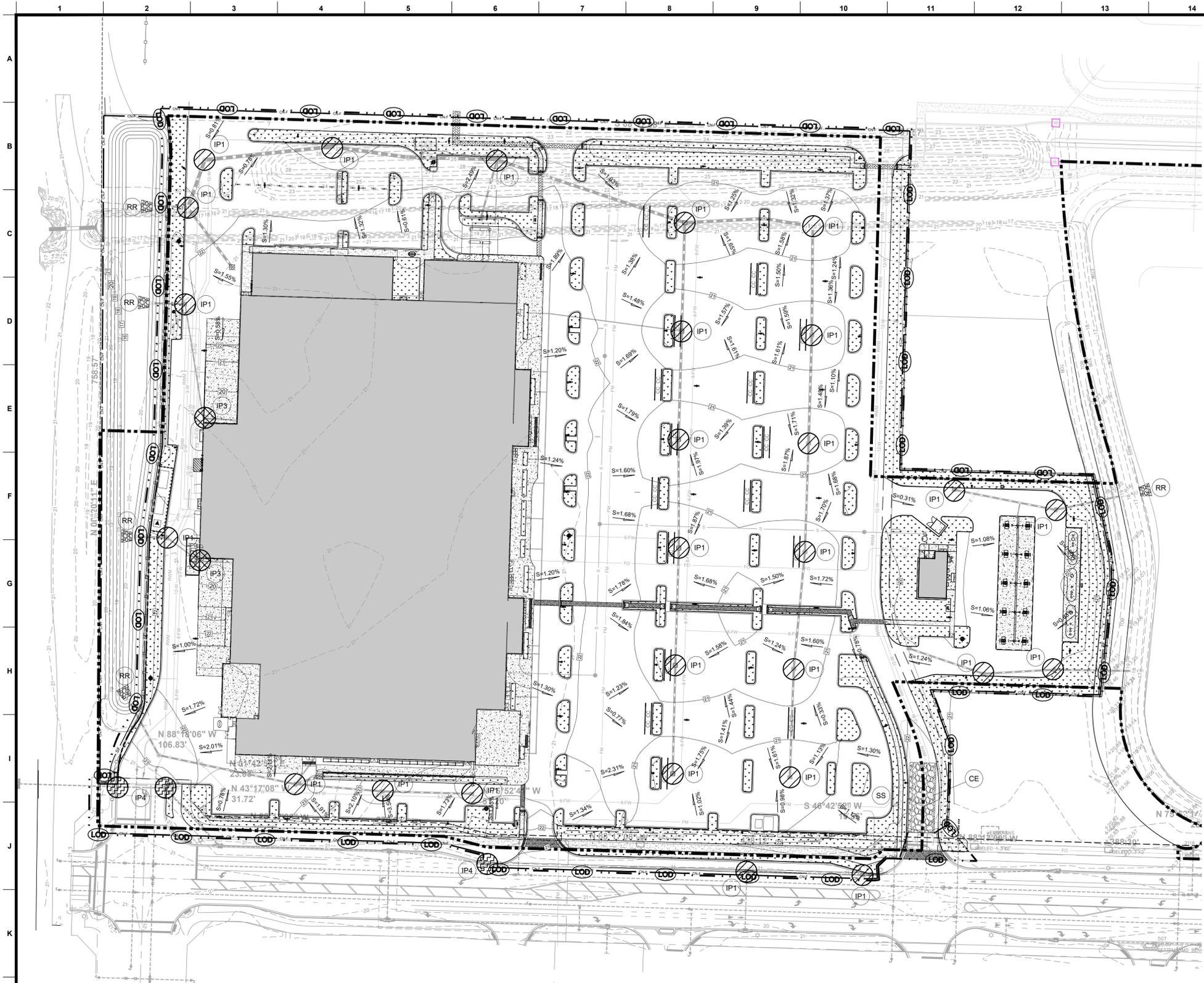
MINIMIZATION OF DISTURBED AREAS:

1. CONTRACTOR SHALL MANAGE CONSTRUCTION ACTIVITIES TO REDUCE EROSION AND RETAIN SEDIMENT AND OTHER POLLUTANTS IN THE SOIL AT THE CONSTRUCTION SITE.
2. CONTRACTOR SHALL MINIMIZE THE TIME BARE SOIL IS EXPOSED.
3. CONTRACTOR SHALL MINIMIZE SITE DISTURBANCE BY MINIMIZING THE EXTENT OF GRADING AND CLEARING TO EFFECTIVELY REDUCE SEDIMENT YIELD.

NOTE TO GC: OWNER HAS AUTHORITY AT ANY TIME TO LIMIT SURFACE AREA OF ERODIBLE EARTH MATERIAL EXPOSED BY CLEARING AND GRUBBING EXCAVATION, BORROW AND EMBANKMENT OPERATIONS AND TO DIRECT THE GC TO PROVIDE IMMEDIATE PERMANENT OR TEMPORARY POLLUTION CONTROL MEASURES.

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TEMPORARY BENCHMARK
 THE SITE BENCHMARK IS THE TOP OF MAG NAIL & DISC LOCATED OFF THE EXISTING PAVEMENT NEAR THE SOUTHWEST CORNER OF THE PROPERTY
 NORTHING: 881149.94
 EASTING: 880615.70
 ELEV.: = 21.18 (NAVD 88')

SWPPP UPDATES AND AMENDMENTS
 THE GC MUST UPDATE THE SWPPP, INCLUDING THE JOBSITE BINDER AND SITE MAPS, TO REFLECT THE PROGRESS OF CONSTRUCTION ACTIVITIES AND GENERAL CHANGES TO THE PROJECT SITE. UPDATES SHALL BE MADE DAILY TO TRACK PROGRESS WHEN ANY OF THE FOLLOWING ACTIVITIES OCCUR: BMP INSTALLATION, MODIFICATION OR REMOVAL, CONSTRUCTION ACTIVITIES (E.G. PAVING, STORM SEWER INSTALLATION, FOOTING INSTALLATION, ETC.), CLEARING, GRUBBING OR GRADING, OR TEMPORARY OR PERMANENT STABILIZATION.
IMPORTANT:
 THE GENERAL CONTRACTOR MUST SUBMIT A REQUEST FOR INFORMATION (RFI) TO THE CEC AND OBTAIN WRITTEN CEC APPROVAL BEFORE DOING ANY OF THE FOLLOWING:
 1. MODIFYING EROSION OR SEDIMENT CONTROL BMPs (SUBSTITUTIONS ARE TYPICALLY ONLY APPROVED IF SPECIFIED MATERIALS ARE NOT AVAILABLE OR THERE IS A VALID REASON THE SPECIFIED BMP WILL NOT WORK)
 2. ADDING/DELETING EROSION OR SEDIMENT CONTROL BMPs;
 3. MODIFYING THE SWPPP IMPLEMENTATION SEQUENCE; OR
 4. PERFORMING ANY ACTIONS OR IN ANY MANNER THAT IS CONTRARY TO THE SWPPP.
 THE CONTRACTOR MAY MODIFY OR ADD ADDITIONAL BMPs, WITHOUT CEC APPROVAL, IN AN EMERGENCY SITUATION TO PREVENT SEDIMENT DISCHARGE OR PROTECT WATER QUALITY. HOWEVER, GC MUST NOTIFY THE CEC AS SOON AS PRACTICAL AS TO THEIR ACTIONS TO DISCUSS THE NEED FOR ADDITIONAL OR SUPPLEMENTAL MEASURES AND TO OBTAIN THE REQUIRED APPROVALS. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE TO ENSURE COMPLIANCE WITH THE PERMIT AND PROTECTION OF DOWNSTREAM WATER QUALITY.
 AMENDING THE SWPPP DOES NOT MEAN THAT IT HAS TO BE REPRINTED. IT IS ACCEPTABLE TO ADD ADDENDA, SKETCHES, NEW SECTIONS, DETAILS, AND/OR REVISED DRAWINGS THAT HAVE THE CEC NAME IN PRINT, ARE STAMPED, SIGNED, DATED, AND ARE ACCOMPANIED BY WRITTEN COPY OF THE ASSOCIATED RFI AND ITS RESPONSE FROM CEC. ENGINEERED ITEMS MUST BE SIGNED AND STAMPED BY THE CEC OF RECORD FOR THE PROJECT.

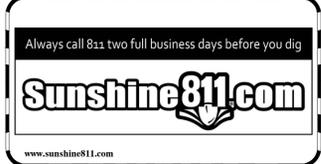
- LEGEND**
- SITE FEATURES:**
- PROPERTY LINE
 - RIGHT OF WAY LINE
 - LIMITS OF DISTURBANCE
 - EXISTING CONTOUR
 - PROPOSED STORM PIPE
 - DIRECTION OF OVERLAND FLOW
 - STORM / SANITARY MANHOLE
 - DITCH BOTTOM INLET
 - MITERED END SECTION
 - CURB INLETS
- EROSION DETAILS:**
- TEMPORARY CONSTRUCTION EXIT
 - SEDIMENTATION SILT FENCE WITH WIRE BACKING
 - SWPPP INFORMATION SIGN
 - INLET PROTECTION FILTER SACK
 - CURB INLET PROTECTION
 - TRUCK WELL DRAIN PROTECTION
 - FILTER SACK (GRATED CURB INLETS)
 - RIP RAP PAD
 - CHECK DAM
- EROSION NOTES:**
- PERMANENT SEEDING, SOD OR MULCHING (SEE LANDSCAPE PLANS)

SITE SECURITY
 1. ENTIRE PROPERTY TO BE SECURED DURING CONSTRUCTION VIA TEMPORARY FENCE (CN-F). SEE PLAN VIEW THIS SHEET. SEE SWPPP PLAN SHEETS FOR SILT FENCE IN RELATION TO PROPERTY LINE AND DISTURBED AREA.

MINIMIZATION OF DISTURBED AREAS:

- CONTRACTOR SHALL MANAGE CONSTRUCTION ACTIVITIES TO REDUCE EROSION AND RETAIN SEDIMENT AND OTHER POLLUTANTS IN THE SOIL AT THE CONSTRUCTION SITE.
- CONTRACTOR SHALL MINIMIZE THE TIME BARE SOIL IS EXPOSED.
- CONTRACTOR SHALL MINIMIZE SITE DISTURBANCE BY MINIMIZING THE EXTENT OF GRADING AND CLEARING TO EFFECTIVELY REDUCE SEDIMENT YIELD.

NOTE TO GC: OWNER HAS AUTHORITY AT ANY TIME TO LIMIT SURFACE AREA OF ERODIBLE EARTH MATERIAL EXPOSED BY CLEARING AND GRUBBING EXCAVATION, BORROW AND EMBANKMENT OPERATIONS AND TO DIRECT THE GC TO PROVIDE IMMEDIATE PERMANENT OR TEMPORARY POLLUTION CONTROL MEASURES.



1125 BARTOW RD
 LAKELAND, FL 33801
 Ph: 863-252-2761

Plans Prepared By:
 CPH, LLC
 A Full Service A & E Firm

JOSHUA D. LOCKHART, P.E.
 F.L.P.E. #74011

This item has been digitally signed and sealed by Joshua D. Lockhart, PE on the date adjacent to the seal. Signature must be verified on any electronic copies.

No.	Date	Revision	PER DEVELOPER COMMENTS
1	02/02/26		

Designed: M. LOMELI
 Drawn: D. COLLAZO
 Checked: J. LOCKHART
 Job No.: W131372
 Date: 01/2025 © 2026

PH 2 EROSION AND SEDIMENTATION CONTROL PLAN
BIG BOX RETAIL AND FUEL STATION
 WESTLAKE / PALM BEACH COUNTY / FLORIDA

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS.

Sheet No.
C1.4

No.	Date	PER DEVELOPER COMMENTS	Revision
02/02/26			

Designed: M. LOMELI
Drawn: D. COLLAZO
Checked: J. LOCKHART
Job No.: W131372
Date: 01/20/25 © 2026

SWPPP DETAILS
BIG BOX RETAIL AND FUEL STATION
WESTLAKE / PALM BEACH COUNTY / FLORIDA

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS.

- NOTES:
- CONSIDERATION MUST BE GIVEN TO ANTICIPATED CLIMATE AND SEASONAL CONDITIONS WHEN PLANTING SEED.
 - SEED SHALL BE FREE OF WEEDY SPECIES AND APPROPRIATE FOR SITE SOILS AND REGIONAL CLIMATE. SEED AND MULCH PER THE CONSTRUCTION DRAWINGS AND THE 02900 PLANTING SPECIFICATION IMMEDIATELY AFTER TOPSOIL IS APPLIED AND FINAL GRADE IS REACHED.
 - THE SITE HAS ACHIEVED FINAL STABILIZATION ONCE ALL AREAS ARE COVERED WITH BUILDING FOUNDATION OR PAVEMENT, OTHER LANDSCAPING COVER (STONE, MULCH, ETC.), OR HAVE A STAND OF GRASS WITH A MINIMUM OF 70 PERCENT DENSITY OVER THE ENTIRE VEGETATED AREA, OR GREATER IN ACCORDANCE WITH THE GENERAL PERMIT REQUIREMENTS.
 - VEGETATED AREAS MUST BE WATERED, FERTILIZED, AND RESEEDED AS NEEDED TO ACHIEVE THIS REQUIREMENT.
 - THE VEGETATIVE DENSITY MUST BE MAINTAINED THROUGH PROJECT COMPLETION TO BE CONSIDERED STABILIZED. AREAS PROTECTED BY EROSION CONTROL BLANKETS ARE NOT PERMANENTLY STABILIZED UNTIL THE APPLICABLE GENERAL PERMIT REQUIREMENT FOR FINAL VEGETATIVE DENSITY IS ACHIEVED.
 - RIP-RAP, MULCH, GRAVEL, DECOMPOSED GRANITE OR OTHER EQUIVALENT PERMANENT STABILIZATION MEASURES MAY BE EMPLOYED IN LIEU OF VEGETATION BASED ON SITE-SPECIFIC CONDITIONS, DESIGN AND GOVERNING AUTHORITY APPROVAL.
 - ALL VEGETATED AREAS SHALL BE INSPECTED REGULARLY TO CONFIRM THAT A HEALTHY STAND OF GRASS IS MAINTAINED.

SEEDING/VEGETATION REQUIREMENTS
N.T.S.

LAST REVISED: STANDARD
JUNE 2012 DETAIL

- NOTES:
- THE GC IS REQUIRED TO, AT A MINIMUM, INITIATE SOIL STABILIZATION MEASURES IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE, OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT LIKELY RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS.
 - THE GC HAS 7 DAYS FROM INITIATION OF STABILIZATION TO COMPLETE SOIL PREPARATION, SEEDING, MULCHING, AND ANY OTHER REQUIRED ACTIVITIES RELATED TO THE PLANTING AND ESTABLISHMENT OF VEGETATION. THE GC ALSO HAS 7 DAYS FROM INITIATION OF STABILIZATION TO COMPLETELY INSTALL NON-VEGETATED MEASURES, IF UTILIZED.
 - ALL DISTURBED AREAS MUST BE STABILIZED TEMPORARILY WITH THE USE OF FAST-GERMINATING ANNUAL GRASS/GRAIN VARIETIES APPROPRIATE FOR SITE SOIL AND CLIMATE CONDITIONS. MULCH IS REQUIRED FOR ALL SEEDING APPLICATIONS, AND ALL MULCH APPLICATIONS MUST INCLUDE A SUITABLE FORM OF MULCH ANCHORING TO MINIMIZE MOVEMENT OF MULCH BY WIND OR WATER.
 - ALTERNATIVE STABILIZATION MEASURES TO SEEDING, SUCH AS ANCHORED STRAWHAY MULCH (WITHOUT SEEDING), MAY BE UTILIZED DURING PERIODS WHEN VEGETATIVE GROWTH IS UNLIKELY (E.G. WINTER MONTHS).
 - IT IS NOT ACCEPTABLE TO ALLOW BARE SOIL TO REMAIN EXPOSED AT ANY TIME DURING THE YEAR, REGARDLESS OF WEATHER/TEMPERATURE/SITE CONDITIONS.
 - ALTERNATIVE STABILIZATION MEASURES INCLUDE, BUT ARE NOT LIMITED TO: ANCHORED STRAWHAY MULCH, WOOD CELLULOSE FIBER MULCH, SPRAY-ON SOIL GLUES/BINDERS, AND ROLLED EROSION CONTROL PRODUCTS.
 - ALL ROLLED EROSION CONTROL PRODUCTS SHALL HAVE CURRENT QDO(RTM) STATUS ISSUED BY THE EROSION CONTROL TECHNOLOGY COUNCIL (ECTC) PLUS ANY STATE OR AGENCY-SPECIFIC REQUIREMENTS. EVIDENCE OF QDO(RTM) APPROVAL SHALL ACCOMPANY THE PRODUCT SHIPPED TO THE JOBSITE FOR READY IDENTIFICATION BY THE CONTRACTOR OR AGENCY INSPECTOR.
 - ROLLED EROSION CONTROL PRODUCTS (NETS, BLANKETS, TURF REINFORCED MATES) AND VEGETATED AREAS NOT MEETING REQUIRED VEGETATIVE DENSITIES FOR FINAL STABILIZATION MUST BE INSPECTED DAILY. RULING, RUTTING AND OTHER DAMAGE TO EROSION CONTROL DEVICES INDICATE THE SPECIFIED EROSION CONTROL DEVICE IS NOT FUNCTIONING OR INSTALLED PROPERLY AND/OR ADDITIONAL EROSION CONTROL DEVICES ARE WARRANTED.

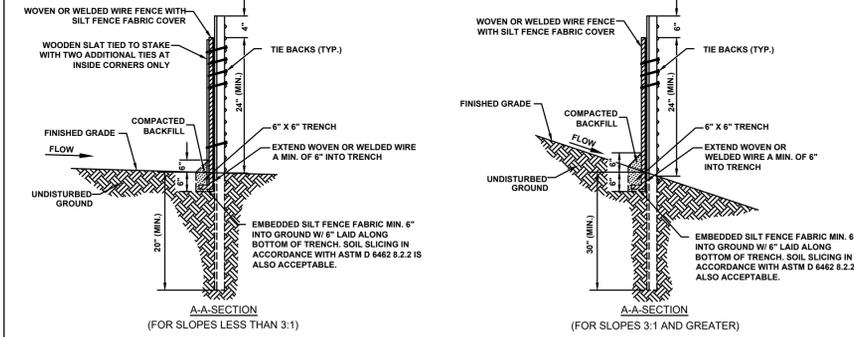
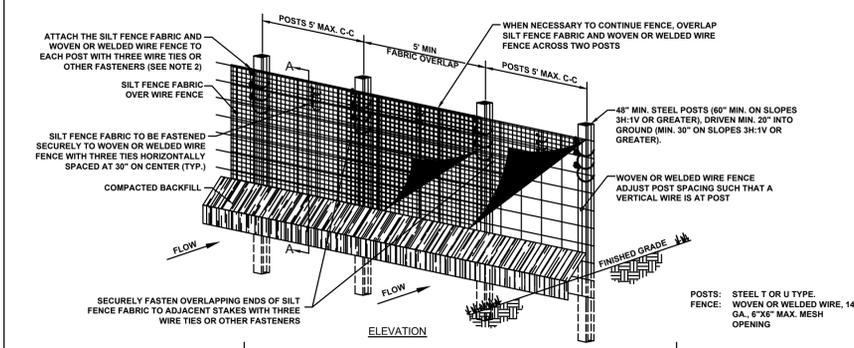
TEMPORARY SEEDING OR STABILIZATION
N.T.S.

LAST REVISED: STANDARD
JUNE 2012 DETAIL

- NOTES:
- PERMANENT STABILIZATION SHALL BE ACCOMPLISHED IN ALL DISTURBED AREAS BY COVERING THE SOIL WITH PAVEMENT, BUILDING STRUCTURES, VEGETATION, OR OTHER FORMS OF SOIL STABILIZATION.
 - THE GC IS REQUIRED TO INITIATE PERMANENT SOIL STABILIZATION MEASURES IMMEDIATELY UPON REACHING FINAL GRADE. FOR THOSE AREAS NOT AT FINAL GRADE THAT WILL NOT BE DISTURBED FOR GREATER THAN 14 DAYS, THE CONTRACTOR SHOULD INITIATE TEMPORARY STABILIZATION PER THE TEMPORARY SEEDING OR STABILIZATION DETAIL.
 - THE GC HAS 7 DAYS FROM INITIATION OF STABILIZATION TO COMPLETE SOIL PREPARATION, SEEDING, MULCHING, AND ANY OTHER REQUIRED ACTIVITIES RELATED TO THE PLANTING AND ESTABLISHMENT OF VEGETATION. THE GC ALSO HAS 7 DAYS FROM INITIATION OF STABILIZATION TO COMPLETELY INSTALL NON-VEGETATED MEASURES, IF UTILIZED.
 - SOILS MUST BE PREPARED BEFORE INSTALLATION OF SOD OR SEED. SEE 02900 SPECIFICATION FOR INSTRUCTION ON PROPER SOIL PREPARATION.
 - AT THE COMPLETION OF GROUND-DISTURBING ACTIVITIES, THE ENTIRE SITE MUST HAVE PERMANENT VEGETATIVE COVER MEETING VEGETATIVE DENSITY REQUIREMENTS IN THE GENERAL PERMIT, OR MULCH PER LANDSCAPE PLAN, IN ALL AREAS NOT COVERED BY HARDSCAPE (STONE, PAVEMENT, BUILDINGS, ETC.).
 - SEEDED AREAS SHALL BE PROTECTED WITH STRAW MULCH, HYDRAULIC MULCH OR A ROLLED EROSION CONTROL PRODUCT. STRAW MULCH MUST BE TACKLED OR CRIMPED BY DISC OR OTHER MACHINERY, AND ROLLED EROSION CONTROL PRODUCTS MUST BE INSTALLED PER MANUFACTURER RECOMMENDATIONS. ONLY ROLLED EROSION CONTROL PRODUCTS ARE PERMITTED TO BE USED IN FLOW CONVEYANCES.
 - ALL AREAS TO BE SEEDDED MUST MEET TOPSOIL DEPTH, PH AND ORGANIC CONTENT REQUIREMENTS.
 - FINAL SITE STABILIZATION IS ACHIEVED WHEN PERENNIAL VEGETATIVE COVER PROVIDES PERMANENT STABILIZATION WITH A UNIFORM DENSITY GREATER THAN 70 PERCENT OVER THE ENTIRE AREA TO BE STABILIZED BY VEGETATIVE COVER. THIS AREA IS EXCLUSIVE OF AREAS THAT ARE COVERED WITH ROCK (CRUSHED GRANITE, GRAVEL, ETC.) OR LANDSCAPE MULCH, PAVED OR HAVE A BUILDING OR OTHER PERMANENT STRUCTURE ON THEM.

PERMANENT SEEDING, SOD OR MULCHING
N.T.S.

LAST REVISED: STANDARD
JUNE 2012 DETAIL



SILT FENCE SECTION	TYPE (WIRE BACK OR SLICED)	SECTION LENGTH (FT)	DRAINAGE AREA (ACRES)	AVERAGE SLOPE OF AREA
N. PROP. LINE ADJACENT TO CLARCONA OCOEE RD	WIRE	--	2.00	--
E. PROP. LINE ADJACENT TO WESTBRIDGE RD	WIRE	--	2.00	--
S. PROP. LINE ADJACENT TO BANYAN COVE BLVD.	WIRE	--	2.00	--
W. PROP. LINE ADJACENT TO N. LAKEWOOD AVE	WIRE	--	1.99	--

TABLE 1 Temporary Silt Fence Material Property Requirements

Test Method	Units	Supported ¹ Silt Fence	Unsupported ² Silt Fence	Type of Value
Grab Strength	ASTM D 4632	N (lbs)		
	Machine Direction	400 (90)	550 (90)	MARV
	X-Machine Direction	400 (90)	450 (90)	MARV
Permeability ³	ASTM D 4491	sec-1	0.05	Max
Apparent Opening Size ⁴	ASTM D 4751	mm (US Sieve #)	0.60 (90)	Max ARV ⁵
Ultraviolet Stability	ASTM D 4355	% Retained Strength	70% after 500 h of exposure	Typical

¹ Silt fence support shall consist of 14 gauge steel wire with a mesh spacing of 185 mm (6 in.) or prefabricated polymer mesh of equivalent strength.

² If these default values are based on empirical evidence with a variety of sediments. For environmentally sensitive areas, a review of previous experience and/or site or regionally specific geotechnical tests in accordance with Test Method D 6141 should be performed by the agency to confirm suitability of these requirements.

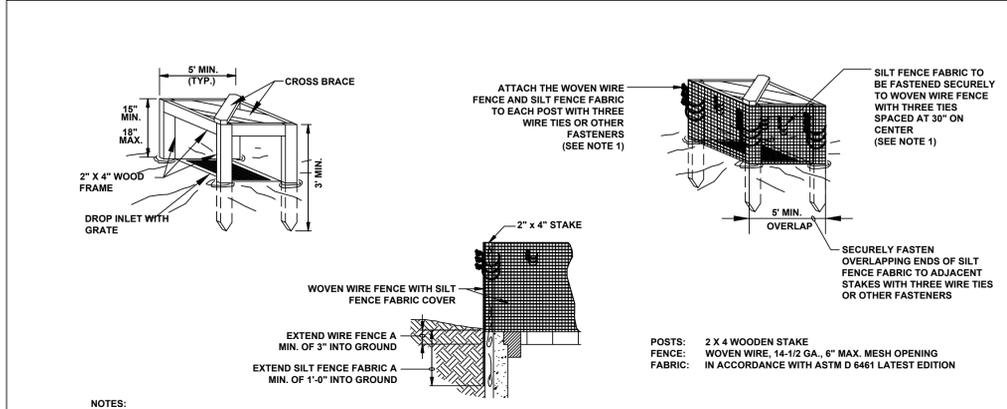
³ As measured in accordance with Test Method D 4632.

⁴ TABLE 1.1 (ADAPT FROM ASTM D 4491)

- SPECIFICATIONS FOR SILT FENCE INSTALLATION**
- MATERIALS AND INSTALLATION SHALL COMPLY WITH ASTM D 6462 LATEST EDITION.
 - INSTALL SILT FENCE AT A FAIRLY LEVEL GRADE ALONG THE CONTOUR WITH THE ENDS CURVED UPHILL TO PROVIDE SUFFICIENT UPSTREAM STORAGE VOLUME FOR THE ANTICIPATED RUNOFF.
 - ATTACH THE GEOTEXTILE OR FABRIC TO THE WOVEN OR WELDED WIRE FENCE WITH THREE WIRE TIES OR OTHER FASTENERS (HORIZONTALLY SPACED EVERY 30" ALL SPACES WITHIN THE TOP 6" OF THE FABRIC. ATTACH EACH TIE DIAGONALLY AS DEGREES THROUGH THE FABRIC, WITH EACH PUNCTURE AT LEAST 1" VERTICALLY APART. AT EACH POST, ATTACH THE GEOTEXTILE OR FABRIC AND THE WOVEN OR WELDED WIRE FENCE TO THE POST AS PREVIOUSLY STATED. IN ADDITION, EACH TIE PLACED ON A POST SHOULD BE POSITIONED TO HANG ON A POST RIMPLE WHEN TIGHTENED TO PREVENT SAGGING.
 - WHEN TWO SECTIONS OF SILT FENCE FABRIC ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED A MINIMUM OF 6" ACROSS TWO POSTS, AS SHOWN.
 - ALL SILT FENCE SHALL INCLUDE WIRE SUPPORT UNLESS THE STATIC SLICING EQUIPMENT IS UTILIZED TO INSTALL THE FENCE PER DETAIL, "SILT FENCE INSTALLATION (SLICING METHOD)".
 - WRAP APPROXIMATELY 6" OF FABRIC AROUND THE END POSTS AND SECURE WITH 3 TIES.
 - COMPACT THE SOIL IMMEDIATELY NEXT TO THE SILT FENCE FABRIC WITH THE FRONT WHEEL OF THE TRACTOR, SKID STEER, OR ROLLER EXERTING AT LEAST 60 POUNDS PER SQ. INCH. COMPACT THE UPSTREAM SIDE FIRST. COMPACT EACH SIDE TWICE FOR A TOTAL OF FOUR TRIPS.
 - ADD POST CAPS AS NEEDED BASED ON SITE CONDITIONS AND APPLICABLE AGENCY REQUIREMENTS.

- MAINTENANCE NOTES**
- SILT FENCES SHALL BE INSPECTED ALONG ITS ENTIRETY AND MUST BE CLEANED WHEN SEDIMENT HAS ACCUMULATED TO ONE-THIRD THE HEIGHT OF THE SILT FENCE. MAINTENANCE CLEANOUT MUST BE CONDUCTED REGULARLY TO PREVENT ACCUMULATED SEDIMENTS FROM REACHING ON-THIRD THE HEIGHT OF THE SILT FENCE.
 - ALL MATERIAL EXCAVATED FROM BEHIND SILT FENCE SHALL BE STOCKPILED ON AN UPLAND PORTION OF THE SITE IF SUITABLE FOR REUSE. SPECIAL ATTENTION SHOULD BE PAID TO ENSURE THAT NO UNDERMINING OF SILT FENCE HAS OCCURRED AND THAT NO BYPASS IS OCCURRING AT JOINING SECTIONS.
 - IF EXCESS SEDIMENT IS ACCUMULATING IN ANY SECTION OF SILT FENCE, THE CONTRACTOR SHOULD IMPLEMENT ADDITIONAL UPSTREAM STABILIZATION MEASURES OR ADDITIONAL BMPs (PENDING CEC APPROVAL) TO PREVENT EXCESSIVE BUILDUP ON SILT FENCE.
 - SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED.

LAST REVISED: STANDARD
JUNE 2012 DETAIL

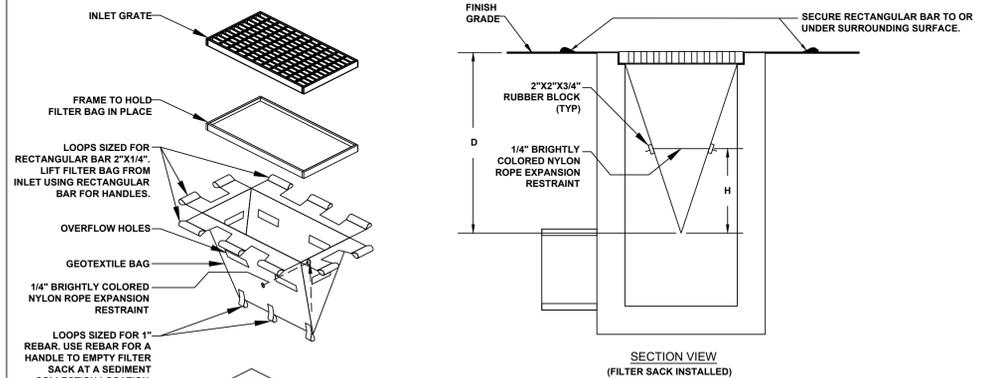


- NOTES:
- ATTACH THE WOVEN WIRE FENCE AND THE GEOTEXTILE TO EACH POST (SPACED EVERY 30") WITH THREE WIRE TIES OR OTHER FASTENERS. ALL SPACED WITHIN THE TOP 8" OF THE FABRIC. ATTACH EACH TIE DIAGONALLY 45 DEGREES THROUGH THE FABRIC, WITH EACH PUNCTURE AT LEAST 1" VERTICALLY APART.
 - WHEN TWO SECTIONS OF SILT FENCE FABRIC ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED ACROSS TWO POSTS.
 - MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE SWPPP. DEPTH OF ACCUMULATED SEDIMENTS MAY NOT EXCEED ONE-THIRD THE HEIGHT OF THE FABRIC.
 - ALL SILT FENCE INLET PROTECTIONS SHALL INCLUDE WIRE SUPPORT.

- MAINTENANCE NOTES:**
- INLET PROTECTION DEVICES MUST BE INSPECTED FOR SEDIMENT ACCUMULATION WITHIN THE CATCH BASIN (IF USING INSERT-TYPE DEVICE) OR UPGRADIENT OF THE INLET.
 - REMOVAL OF SEDIMENT ACCUMULATED IN OR ADJACENT TO A STORM DRAIN INLET MUST BEGIN IMMEDIATELY UPON DISCOVERY, WITH COMPLETION OF THE ACTIVITY OCCURRING NO LATER THAN THE END OF THE FOLLOWING BUSINESS DAY.
 - INLET PROTECTION DEVICES SHALL BE INSPECTED FOR UNINTENDED BYPASS OR IMPROPER FLOW-RATES THAT MAY CAUSE DOWNSTREAM FLOODING.
 - CONTACT THE CEC FOR ALTERNATE INLET PROTECTION IF THE DESIGNED PROTECTION MAY IMPACT DOWNSTREAM BMPs, ADJACENT SLOPES, ETC., DUE TO PONDING ISSUES. ENSURE THAT NO UNDERMINING OF INLET PROTECTION DEVICES HAS OCCURRED.
 - INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.

SILT FENCE INLET PROTECTION
N.T.S.

LAST REVISED: STANDARD
APRIL 30, 2011 DETAIL



- NOTES:
- GEOTEXTILE SHALL BE A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS REQUIREMENTS IN THE SPECIFICATIONS TABLE.
 - PLACE AN OIL ABSORBENT PAD OR PILLOW OVER INLET GRATE WHEN OIL SPILLS ARE A CONCERN.
 - THE WIDTH, "W", OF THE FILTER SACK SHALL MATCH THE INSIDE WIDTH OF THE GRATED INLET BOX.
 - THE DEPTH, "D", OF THE FILTER SACK SHALL BE BETWEEN 18 INCHES AND 36 INCHES.
 - THE LENGTH, "L", OF THE FILTER SACK SHALL MATCH THE INSIDE LENGTH OF THE GRATED INLET BOX.

- MAINTENANCE NOTES:**
- INLET PROTECTION DEVICES MUST BE INSPECTED FOR SEDIMENT ACCUMULATION WITHIN THE CATCH BASIN. REMOVE TRAPPED SEDIMENT WHEN BRIGHTLY COLORED EXPANSION RESTRAINT CAN NO LONGER BE SEEN.
 - REMOVAL OF SEDIMENT ACCUMULATED IN OR ADJACENT TO A STORM DRAIN INLET MUST BEGIN IMMEDIATELY UPON DISCOVERY, WITH COMPLETION OF THE ACTIVITY OCCURRING NO LATER THAN THE END OF THE FOLLOWING BUSINESS DAY.
 - INLET PROTECTION DEVICES SHALL BE INSPECTED FOR UNINTENDED BYPASS OR IMPROPER FLOW-RATES THAT MAY CAUSE DOWNSTREAM FLOODING.
 - CONTACT THE CEC FOR ALTERNATE INLET PROTECTION IF THE DESIGNED PROTECTION MAY IMPACT DOWNSTREAM BMPs, ADJACENT SLOPES, ETC., DUE TO PONDING ISSUES. ENSURE THAT NO UNDERMINING OF INLET PROTECTION DEVICES HAS OCCURRED.
 - INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.

LOW TO MODERATE FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE			MODERATE TO HIGH FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS	PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS	GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %	GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4633	120 LBS	PUNCTURE	ASTM D-4633	135 LBS
MULLEN BURST	ASTM D-3786	800 PSI	MULLEN BURST	ASTM D-3786	420 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS	TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90 %	UV RESISTANCE	ASTM D-4355	90 %
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE	APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/SQ FT	FLOW RATE	ASTM D-4491	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	0.55 SEC -1	PERMITTIVITY	ASTM D-4491	1.5 SEC -1

INLET PROTECTION FILTER SACK
N.T.S.

LAST REVISED: STANDARD
APRIL 30, 2011 DETAIL

FOR USE ONLY IN PAVED AREAS WHERE SEDIMENT LOADS ARE EXPECTED TO BE VERY LOW. FILTER SACK MUST HAVE OVERFLOW HOLES TO PREVENT PONDING.

NOTES:

- SKIMMER OR DEWATERING BMP MUST DRAW WATER FROM THE TOP OF THE WATER COLUMN (I.E., WATER SURFACE) PER US EPA CGP.
- DO NOT USE RISERS WITH PERFORATED PIPE OR ANY OTHER SYSTEM/BMP THAT DRAWS WATER FROM BELOW THE WATER SURFACE.

(SK) SKIMMER

LAST REVISED: STANDARD
JUNE 2013 DETAIL

NOTES:

- IMPORTANT: GC SHALL NOT APPLY FLOCCULANTS WITHOUT PREVIOUS REVIEW AND WRITTEN CONFIRMATION BY CEC. FLOCCULANTS MUST BE USED ONLY IN LOCATIONS SHOWN ON THE SWPPP MAPS, AT RATES AND METHODS SPECIFIED AND AS APPROVED BY CEC. CEC SHALL CONFIRM WHETHER TO FOLLOW MANUFACTURER DIRECTION, OR MODIFY MANUFACTURER'S DIRECTION.
- FLOCCULANTS SHALL BE USED AS FAR UPSTREAM OF BASINS, TRAPS, TANKS, OR OTHER WATER CONTAINMENT AREAS AS POSSIBLE. THE EFFECTIVENESS OF FLOCCULANTS DEPENDS ON THE TRAVEL TIME AND AGITATION OF THE WATER, FOR PROPER MIXING.
- ALL SEDIMENTATION/SETTLING MUST OCCUR WITHIN THE LOD. THAT IS, VELOCITY OF FLOW IN WATER CONTAINMENT SHOULD BE NEAR ZERO, AND THE TIME OF RESIDENCE AS LONG AS POSSIBLE.
- FLOC BLOCKS, FLOCCULANT-IMPREGNATED WATTLES, AND ANY OTHER CONTROL MEASURES WHICH SUPPLY FLOCCULANTS MUST BE REGULARLY INSPECTED AND MAINTAINED, AS ARE ALL OTHER CONTROL MEASURES.
- STANDARD EROSION AND SEDIMENT CONTROLS ARE REQUIRED BOTH PRIOR TO AND AFTER CHEMICAL TREATMENT IN ACCORDANCE WITH THE SWPPP PLANS.

(CES) CHEMICALLY-ENHANCED SETTLING
PASSIVE TREATMENT SYSTEMS

LAST REVISED: STANDARD
JUNE 2012 DETAIL

NOTES:

- VERIFY WITH CEC WHICH DISCHARGES FROM DEWATERING ACTIVITIES ARE ALLOWED OR ARE NOT ALLOWED NON-STORMWATER DISCHARGES UNDER THE GENERAL PERMIT AND OTHER REGULATIONS. OBTAIN ALL DEWATERING PERMITS AND AUTHORIZATIONS REQUIRED BY STATE AND LOCAL REGULATIONS. SEE THE REQUIRED DEWATERING PERMITS AND AUTHORIZATIONS TABLE BELOW. GC MUST COMPLETE COLUMNS 3 AND 4.
- GC MUST WAIT TO HAVE WRITTEN COPY OF ALL REQUIRED DEWATERING PERMITS AND AUTHORIZATIONS BEFORE PERFORMING DEWATERING ACTIVITIES.
- DISCHARGES FROM DEWATERING OPERATIONS MUST BE DIRECTED THROUGH AN APPROPRIATE POLLUTION PREVENTION/TREATMENT SYSTEM OF CONTROL MEASURES, SUCH AS A SEDIMENT/FILTER BAG, SEDIMENT TRAP OR SEDIMENT BASIN, AND OTHERS, AS NEEDED, PRIOR TO BEING DISCHARGED FROM THE SITE OR INTO A WATER BODY OF THE STATE. UNDER NO CIRCUMSTANCES ARE DISCHARGES FROM DEWATERING OPERATIONS TO BE DISCHARGED DIRECTLY INTO SANITARY SEWER SYSTEMS, STREAMS, RIVERS, LAKES OR OTHER AREAS BEYOND THE PERMITTED PROJECT AREA. LIKEWISE, DISCHARGES INTO STORM SEWER SYSTEMS THAT DO NOT DRAIN TO A SUITABLE ON-SITE TREATMENT FACILITY, SUCH AS A BASIN, ARE ALSO PROHIBITED. DISCHARGES FROM DEWATERING OPERATIONS MUST ALSO BE CONDUCTED IN A MANNER SUFFICIENT TO PREVENT EROSION FROM THE DISCHARGE RUNOFF.
- IN SEDIMENT TRAP OR BASIN OR POND DEWATERING OPERATIONS, WATER MUST ONLY BE REMOVED FROM THE SURFACE OF THE CONTAINED WATER. A SKIMMER OR SIMILAR FLOATING DEVICE MUST BE USED, TO ONLY REMOVE THE WATER AT THE SURFACE.
- DO NOT DISCHARGE ON A SLOPE GREATER THAN THREE PERCENT NOR WITHIN 20 FEET OF A SURFACE WATER BODY.
- DEWATERING SHALL NOT OCCUR DURING OR IMMEDIATELY AFTER PRECIPITATION EVENTS, BUT EXCEPTIONS SHALL BE EVALUATED ON CASE BY CASE BASIS. CONTACT THE CEC AND RECEIVE WRITTEN APPROVAL.

REQUIRED DEWATERING PERMITS AND AUTHORIZATIONS			
1	2	3	4
GOVERNING AGENCY	PERMIT NAME/TYPE	PERMIT NO. (GC TO COMPLETE)	DATE PERMIT WAS ISSUED BY AGENCY (GC TO COMPLETE)
NPDES STORMWATER NOTICES CENTER MS FSSS FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION	FDEP NPDES GENERIC PERMIT FOR LARGE AND SMALL CONSTRUCTION SITES		
PALM BEACH COUNTY	DEVELOPMENT ORDER APPROVAL		
SOUTH FLORIDA WATER MANAGEMENT DISTRICT	ENVIRONMENTAL RESOURCE PERMIT		

(DW) DEWATERING

LAST REVISED: STANDARD
JUNE 2012 DETAIL

NOTES:

- ALL ON-SITE TOPSOIL MUST BE PRESERVED FOR REUSE ON THE SITE DURING REVEGETATION, UNLESS IT IS INFEASIBLE OR UNREASONABLE TO DO SO. (NOTE: TOPSOIL STOCKPILING ON-SITE MAY BE INFEASIBLE IF SPACE IS NOT AVAILABLE ON-SITE FOR TOPSOIL STOCKPILING OR IF LITTLE TO NO VEGETATION IS TO REMAIN UNDER POST-CONSTRUCTION CONDITIONS. STOCKPILING OF TOPSOIL AT AN OFF-SITE LOCATION OR TRANSFER OF TOPSOIL TO OTHER LOCATIONS MAY ALSO BE ACCEPTABLE BUT MUST BE AUTHORIZED BY THE CEC).
- ALL SOIL STOCKPILES MUST BE STABILIZED TO PREVENT EROSION AND FUGITIVE DUST. THE SURFACE OF THE STOCKPILE MUST BE PROPERLY PROTECTED TO ELIMINATE THE RISK OF EROSION. SEE TEMPORARY SEEDING OR STABILIZATION DETAIL. SUITABLE ALTERNATIVE MEANS OF STABILIZATION CAN BE USED, SUCH AS PROPERLY ANCHORED PLASTIC TARPS.
- PERIMETER SEDIMENT CONTROLS ALSO MUST BE INSTALLED AT STOCKPILE LOCATIONS TO PREVENT CONTACT WITH STORMWATER, INCLUDING RUN-ON.
- STOCKPILES MUST BE LOCATED OUTSIDE OF ANY VEGETATED BUFFER AREAS AND SHOULD BE LOCATED AS FAR AS PRACTICABLE FROM STORMWATER CONVEYANCES AND IMPOUNDMENTS AND WATER BODIES.
- STOCKPILE LOCATIONS SHALL BE NOTED ON THE SITE MAPS.

(SP) STOCKPILES

LAST REVISED: STANDARD
JUNE 2012 DETAIL

NOTES:

- LARGE AREAS OF SOIL THAT ARE DENuded OF VEGETATION AND HAVE NO PROTECTION FROM PARTICLES BEING PICKED UP AND CARRIED BY WIND SHOULD BE PROTECTED WITH A TEMPORARY COVER OR KEPT UNDER CONTROL WITH WATER OR OTHER SOIL ADHERING PRODUCTS TO PREVENT SOIL PARTICLES FROM BECOMING AIRBORNE, AND FROM EXITING THE SITE PERIMETER.
- WATER TRUCKS OR OTHER DUST CONTROL AGENTS SHALL BE USED AS NEEDED DURING CONSTRUCTION TO MINIMIZE DUST GENERATED ON THE SITE. TACKIFIERS MAY BE USED TO HOLD SOIL IN PLACE AND PREVENT DUST. MANUFACTURER RECOMMENDATIONS FOR APPLICATION LOCATIONS AND RATES MUST BE USED FOR DUST CONTROL APPLICATIONS. ONLY SWPPP-SPECIFIED TACKIFIERS MAY BE USED ON THE PROJECT SITE. ANY CHEMICAL APPLICATION NOT INCLUDED IN THE SWPPP MUST BE APPROVED, IN WRITING, BY THE CEC.
- DUST CONTROL MUST BE PROVIDED BY THE GC TO A DEGREE THAT IS IN COMPLIANCE WITH APPLICABLE FEDERAL, LOCAL AND STATE DUST CONTROL REGULATIONS.
- THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
- IN ADDITION TO BMPs, GC SHALL PERFORM PER PRACTICES AND PROCEDURES WHICH MINIMIZE AND PREVENT AIRBORNE DUST OR OTHER PARTICLES FROM OCCURRING.

(DC) DUST CONTROL

LAST REVISED: STANDARD
JUNE 2012 DETAIL

NOTES:

- USING WATER FROM BASINS, TRAPS, TANKS, OR OTHER WATER CONTAINMENT AREAS FOR IRRIGATION MINIMIZES DISCHARGES FROM THE SITE, AND IT MAY SATISFY OTHER NEEDS OF THE CONSTRUCTION PROJECT, SUCH AS DUST CONTROL, VEGETATIVE ESTABLISHMENT, ETC.
- CARE SHOULD BE TAKEN THAT WATER UTILIZED FROM CONTAINMENT AREAS ON-SITE FOR CONSTRUCTION PURPOSES DOES NOT DISCHARGE OFF-SITE. IF DISCHARGE IS ANTICIPATED OR OBSERVED, DEWATERING PROCEDURES STATED IN THE DEWATERING DETAIL MUST BE FOLLOWED.
- GC SHALL IMPLEMENT IRRIGATION OR DISPERSION AS PRACTICABLE TO REDUCE WATER VOLUME IN IMPOUNDMENTS AND TO FOSTER VEGETATION GROWTH.

(ID) IRRIGATION OR DISPERSION

LAST REVISED: STANDARD
JUNE 2012 DETAIL

NOTES:

- STORM DRAIN INLET PROTECTION MEASURES SHALL PREVENT SOIL AND DEBRIS FROM ENTERING STORM DRAIN INLETS.
- TEMPORARY CONTROLS SHALL BE CONSTRUCTED BEFORE THE SURROUNDING AREA IS DISTURBED.
- TO PREVENT CLOGGING, STORM DRAIN CONTROL STRUCTURES MUST BE MAINTAINED FREQUENTLY.
- CHECK ALL TEMPORARY CONTROL MEASURES DAILY, AND AFTER EACH STORM EVENT.
- CONTROL MEASURES MUST BE BUILT PER DETAIL AND PLANS, AND MUST BE IN GOOD WORKING CONDITION AT ALL TIMES.

(IP) INLET PROTECTION

LAST REVISED: STANDARD
JUNE 2013 DETAIL

NOTES:

- SUBSTANCES THAT HAVE THE POTENTIAL FOR POLLUTING SURFACE AND/OR GROUNDWATER MUST BE CONTROLLED BY ANY MEANS NECESSARY TO ENSURE THAT THOSE DO NOT DISCHARGE FROM THE SITE. IN THIS REGARD, POTENTIALLY POLLUTING SUBSTANCES SHALL BE STORED AND HANDLED IN A MANNER CONSISTENT WITH THE RISK OF IMPACT THOSE REPRESENT, AND ACCORDING WITH THE REGULATIONS.
- NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, ARE ALLOWED TO BE DISCHARGED FROM THE SITE WITH STORMWATER. ALL SOLID WASTE, INCLUDING DISPOSABLE MATERIALS INCIDENTAL TO THE CONSTRUCTION ACTIVITIES, MUST BE COLLECTED AND PLACED IN CONTAINERS. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE. THE CONTAINERS SHALL BE HAILED AWAY FROM THE SITE AND EMPTIED WHEN THOSE BECOME 90% FULL, OR AS NECESSARY, BY A CERTIFIED TRASH DISPOSAL SERVICE. LIDS OR COVERS FOR THE CONTAINERS SHALL BE PROVIDED FOR USE DURING RAIN EVENTS TO PREVENT WASTE CONTACT WITH STORMWATER. WASTES THAT CANNOT BE STORED IN A CONTAINER MUST BE STORED UNDER COVER OR INDOORS. THE LOCATION OF SOLID WASTE RECEPTACLES SHALL BE SHOWN ON THE SITE MAPS.

(SWD) SOLID WASTE DISPOSAL

LAST REVISED: STANDARD
JUNE 2013 DETAIL

NOTES:

- MATERIAL STORAGE AREAS SHOULD BE LOCATED, WHEN POSSIBLE, TO MINIMIZE EXPOSURE TO WEATHER. INSPECTIONS SHALL EVALUATE DISTURBED AREAS AND AREAS USED FOR STORING MATERIALS THAT ARE EXPOSED TO RAINFALL FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM OR DISCHARGING FROM THE SITE. IF NECESSARY, THE MATERIALS MUST BE COVERED OR ORIGINAL COVERS MUST BE REPAIRED OR SUPPLEMENTED. ALSO, PROTECTIVE BERMS MUST BE CONSTRUCTED, IF NEEDED, TO CONTAIN RUNOFF FROM MATERIAL STORAGE AREAS. GC SHALL ADHERE TO ALL STATE AND LOCAL REGULATIONS PERTAINING TO MATERIAL STORAGE AREAS.
- CHEMICALS, PAINTS, SOLVENTS, FERTILIZERS, AND OTHER TOXIC MATERIALS MUST BE STORED IN WATERPROOF CONTAINERS. EXCEPT DURING APPLICATION, THE CONTAINERS AND THE CONTENTS MUST BE KEPT IN TRUCKS OR INSIDE OF STORAGE FACILITIES. RUNOFF CONTAINING SUCH MATERIAL MUST BE COLLECTED, REMOVED FROM THE SITE, TREATED, AND DISPOSED OF AT AN APPROVED SOLID WASTE AND CHEMICAL DISPOSAL FACILITY.

(MLSA) MATERIAL LAYDOWN AND STORAGE AREA

LAST REVISED: STANDARD
JUNE 2013 DETAIL

NOTES:

- THE GC SHALL IDENTIFY MASONS' AREA WITH LEGIBLE SIGNAGE ON THE SITE. TO THE EXTENT PRACTICAL, ALL MASONRY BLOCKS, MATERIALS, INCLUDING BRICKS AND SACKED CEMENT, AND EQUIPMENT SHALL BE STORED IN CONTAINERS AT THE END OF EACH WORK DAY. SUCH MATERIALS SHALL REMAIN STORED IN CONTAINERS WHEN NOT IN USE.
- RUNOFF CONTROL, SUCH AS DIVERSION BERMS, SILT FENCE, SILT DIKE, OR OTHER MEANS OF CONTAINMENT SHALL BE PROVIDED TO PREVENT THE MIGRATION OF STORMWATER POLLUTANTS FROM THE MASONS' AREA. COVERED RECEPTACLES FOR DEBRIS AND TRASH DISPOSAL SHALL ALSO BE PROVIDED.
- THE MASONS' AREA SHALL MEET OSHA AND OTHER REGULATORY REQUIREMENTS FOR PERSONAL PROTECTIVE EQUIPMENT (PPE), FIRE EXTINGUISHERS, ETC. GC SHALL PROVIDE SCREENING OR OTHER TECHNOLOGIES FOR MASONS' AREA TO PREVENT AIRBORNE TRANSPORT OF CEMENT DUST AND OTHER PARTICULATES DUE TO HIGH SPEED WIND OR OTHER CONDITIONS. THE LOCATION OF THE MASONS' AREA SHALL BE SHOWN ON THE SITE MAPS.

(MA) MASONS' AREA

LAST REVISED: STANDARD
JUNE 2013 DETAIL

NOTES:

- CONTRACTOR SHALL PROVIDE DESIGNATED LOCATION FOR SORTING AND SEPARATING HAZARDOUS WASTES.
- HAZARDOUS WASTE STORAGE MUST BE PROTECTED FROM WEATHER ELEMENTS AND HAVE RESTRICTED ACCESS.
- HAZARDOUS WASTE STORAGE MUST COMPLY WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
- HAZARDOUS WASTE STORAGE MUST COMPLY WITH CONTRACT DOCUMENTS.

(HWD) HAZARDOUS WASTE DISPOSAL

LAST REVISED: STANDARD
JUNE 2013 DETAIL

NOTES:

- CONCRETE WASTE MANAGEMENT PERTAINS TO WASTE FROM CONCRETE READY-MIX TRUCKS, MASONRY OPERATIONS, AND SIMILAR WASTE.
- THE STATE OF FLORIDA PROHIBITS CONCRETE WASH OUT ON-SITE.
- DISCHARGE OF EXCESS OR WASTE CONCRETE AND/OR WASH WATER FROM CONCRETE TRUCKS IS ALLOWED AT THE CONSTRUCTION SITE. ONLY COMMERCIALLY AVAILABLE ABOVE GROUND PORTABLE CONCRETE WASHOUT CONTAINERS ARE ALLOWED AND MUST BE PROTECTED FROM VEHICLE TRAFFIC AND CLEARLY IDENTIFIED BY LEGIBLE SIGNAGE, AND MUST BE LOCATED OUTSIDE OF VEGETATED BUFFERS AND AS FAR AS PRACTICABLE FROM STORMWATER CONVEYANCES AND IMPOUNDMENTS AND WATER BODIES. PORTABLE CONCRETE WASHOUT CONTAINERS SHALL CONTAIN AND/OR ACTIVELY MANAGE BOTH SOLID AND FLUID COMPONENTS OF THE MIX. CONCRETE WASHOUT CONTAINERS MUST BE CLEANED OR EXCHANGED WHEN THE REMAINING VOLUME IS REDUCED BY 95% TO PREVENT ANY POTENTIAL OVERFLOW IN A STORM EVENT.
- ALTERNATIVELY, WASTE CONCRETE CAN BE PLACED INTO FORMS TO MAKE RIP RAP AND/OR OTHER USEFUL CONCRETE PRODUCTS. PORTABLE CONCRETE WASHOUT CONTAINERS SHALL BE DISPOSED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. THE GC IS RESPONSIBLE FOR ASSURING THAT THESE PROCEDURES, APPLICABLE LAWS, AND ENVIRONMENTAL REGULATIONS ARE FOLLOWED. THE LOCATION OF CONCRETE WASHOUT CONTAINERS SHALL BE SHOWN ON THE SITE MAPS.

(CW) CEMENT AND CONCRETE WASHOUT

LAST REVISED: STANDARD
JUNE 2013 DETAIL

NOTES:

- THE GC SHALL IDENTIFY FUELING AREAS WITH LEGIBLE SIGNAGE ON THE SITE. TEMPORARY ON-SITE FUEL TANKS FOR CONSTRUCTION VEHICLES SHALL MEET ALL LOCAL, STATE AND FEDERAL REGULATIONS. ALL TANKS, SINGLE AND DOUBLE WALLED, SHALL BE PROVIDED WITH SECONDARY CONTAINMENT THAT IS CONTAINMENT EXTERNAL TO AND SEPARATE FROM PRIMARY CONTAINMENT. TANKS SHALL HAVE APPROVED SPILL CONTAINMENT WITH THE CAPACITY REQUIRED BY THE APPLICABLE REGULATIONS. SECONDARY CONTAINMENT SHALL BE CONSTRUCTED OF MATERIALS OF SUFFICIENT THICKNESS, DENSITY, AND COMPOSITION SO AS NOT TO BE STRUCTURALLY WEAKENED AS A RESULT OF CONTACT WITH THE FUEL STORED AND CAPABLE OF CONTAINING DISCHARGED FUEL FOR A PERIOD OF TIME EQUAL TO OR LONGER THAN THE MAXIMUM ANTICIPATED TIME SUFFICIENT TO ALLOW RECOVERY OF DISCHARGED FUEL. IT SHALL BE CAPABLE OF CONTAINING 100% OF THE VOLUME OF THE PRIMARY TANK IF A SINGLE TANK IS USED, OR IN THE CASE OF MULTIPLE TANKS, 150% OF THE LARGEST TANK OR 110% OF THE AGGREGATE, WHICHEVER IS LARGER.
- THE TANKS SHALL BE IN SOUND CONDITION, FREE OF RUST OR OTHER DAMAGE WHICH MIGHT COMPROMISE CONTAINMENT. FUEL STORAGE AREAS SHALL MEET ALL EPA, OSHA AND OTHER REGULATORY REQUIREMENTS FOR SIGNAGE, FIRE EXTINGUISHERS, ETC. HOSES, VALVES, FITTINGS, CAPS, FILLER NOZZLES, AND ASSOCIATED HARDWARE SHALL BE MAINTAINED IN PROPER WORKING CONDITION AT ALL TIMES. TANKS SHALL BE LOCATED TO MINIMIZE EXPOSURE TO WEATHER AND SURFACE WATER DRAINAGE FEATURES. THE LOCATION OF FUEL TANKS SHALL BE SHOWN ON THE SITE MAPS.
- A SPILL PREVENTION, CONTROL AND COUNTERMEASURE (SPCC) PLAN MUST BE DEVELOPED IF ABOVEGROUND OIL STORAGE CAPACITY AT THE CONSTRUCTION SITE EXCEEDS 1,320 GALLONS OR AS SPECIFIED BY STATE.
- CONTAINERS WITH A STORAGE CAPACITY OF 55-GALLONS OR LESS ARE NOT INCLUDED WHEN CALCULATING SITE STORAGE CAPACITY. THE GC SHALL WORK WITH THE CEC TO DEVELOP AND IMPLEMENT A SPCC PLAN IN ACCORDANCE WITH THE OIL POLLUTION PREVENTION REGULATION AT TITLE 40 OF THE CODE OF FEDERAL REGULATIONS, PART 112, (40 CFR 112).

(FPSU) FUEL AND PETROLEUM STORAGE AND USE

LAST REVISED: STANDARD
JUNE 2013 DETAIL

NOTES:

- ALL PERSONNEL INVOLVED WITH CONSTRUCTION ACTIVITIES MUST COMPLY WITH STATE AND LOCAL SANITARY OR SEPTIC SYSTEM REGULATIONS. PORTABLE TOILETS MUST BE LOCATED AT LEAST 30 FEET FROM INLETS, CHANNELS, SWALES, OR PERMITTED LIMITS OF DISTURBANCE, AND MUST BE LOCATED AT LEAST 50 FEET FROM WATERS OF THE STATE, OR WATERS OF THE U.S. PORTABLE TOILETS MUST BE SECURELY ANCHORED AND TIED DOWN. SECONDARY CONTAINMENT SHALL BE PROVIDED AND FULL CAPACITY SHALL BE RESTORED IMMEDIATELY UPON DISCOVERY OF ITS DIMINISHMENT. THE LOCATION OF SANITARY FACILITIES SHALL BE SHOWN ON THE SITE MAPS.

(SAF) SANITARY FACILITIES

LAST REVISED: STANDARD
JUNE 2013 DETAIL

NOTES:

- PROVIDE WASH STATION IN A LOCATION PROTECTED FROM WEATHER ELEMENTS.
- COLLECT ALL USED WASH WATER AND DISPOSE OF IT PROPERLY.
- PROVIDE ADEQUATE SUPPLY OF WATER AND ANY OTHER SUPPLIES TO ENSURE PROPER OPERATION OF WASH STATION WHEN NEEDED.

(PSW) PAINT AND STUCCO WASHOUT

LAST REVISED: STANDARD
JUNE 2013 DETAIL

NOTES:

- THE GC SHALL DESIGNATE AREAS ON THE SITE MAPS FOR EQUIPMENT CLEANING, MAINTENANCE, AND REPAIR. THE GC AND SUBCONTRACTORS SHALL UTILIZE SUCH DESIGNATED AREAS. CLEANING, MAINTENANCE, AND REPAIR AREAS SHALL BE PROTECTED BY A TEMPORARY PERIMETER BERM. SHALL NOT OCCUR WITHIN 150 FEET OF ANY WATERWAY, WATER BODY OR WETLAND, AND SHALL OCCUR AS FAR AS PRACTICABLE FROM STORM SEWER INLETS. DRIP PANS SHALL BE USED FOR VEHICLE MAINTENANCE ACTIVITIES AND RESULTANT WASTES SHALL BE DISPOSED OF IN ACCORDANCE WITH THE HAZARDOUS MATERIAL MANAGEMENT AND SPILL REPORTING PLAN NOTES INCLUDED ON THIS PLAN SHEET.
- USE OF DETERGENTS FOR LARGE SCALE WASHING IS PROHIBITED. (FOR EXAMPLE, WASHING VEHICLES, BUILDINGS, PAVEMENT SURFACES, ETC.). ALL WASH WATER SHALL BE OBTAINED AND PROPERLY TREATED OR DISPOSED.

(EMA) EQUIPMENT AND VEHICLE CLEANING AND MAINTENANCE AREAS

LAST REVISED: STANDARD
JUNE 2013 DETAIL

NOTES:

- THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AREA AS CONDITIONS DEMAND.

(TP) TEMPORARY PARKING

LAST REVISED: STANDARD
JUNE 2013 DETAIL

NOTES:

- THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AREA AS CONDITIONS DEMAND.

(TP) TEMPORARY PARKING

LAST REVISED: STANDARD
JUNE 2013 DETAIL

NOTES:

- THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AREA AS CONDITIONS DEMAND.

(TP) TEMPORARY PARKING

LAST REVISED: STANDARD
JUNE 2013 DETAIL

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Plans Prepared By:
CPH, LLC
A Full Service A & E Firm

JOSHUA D. LOCKHART, P.E.
FL P.E. #74011

This item has been digitally signed and sealed by Joshua D. Lockhart, PE on the date adjacent to the seal. Signature must be verified on any electronic copies.

No.	Date	Revision
1	02/02/26	PER DEVELOPER COMMENTS

Designed: M. LOMELI
Drawn: D. COLLAZO
Checked: J. LOCKHART
Job No.: W131372
Date: 01/2025 © 2026

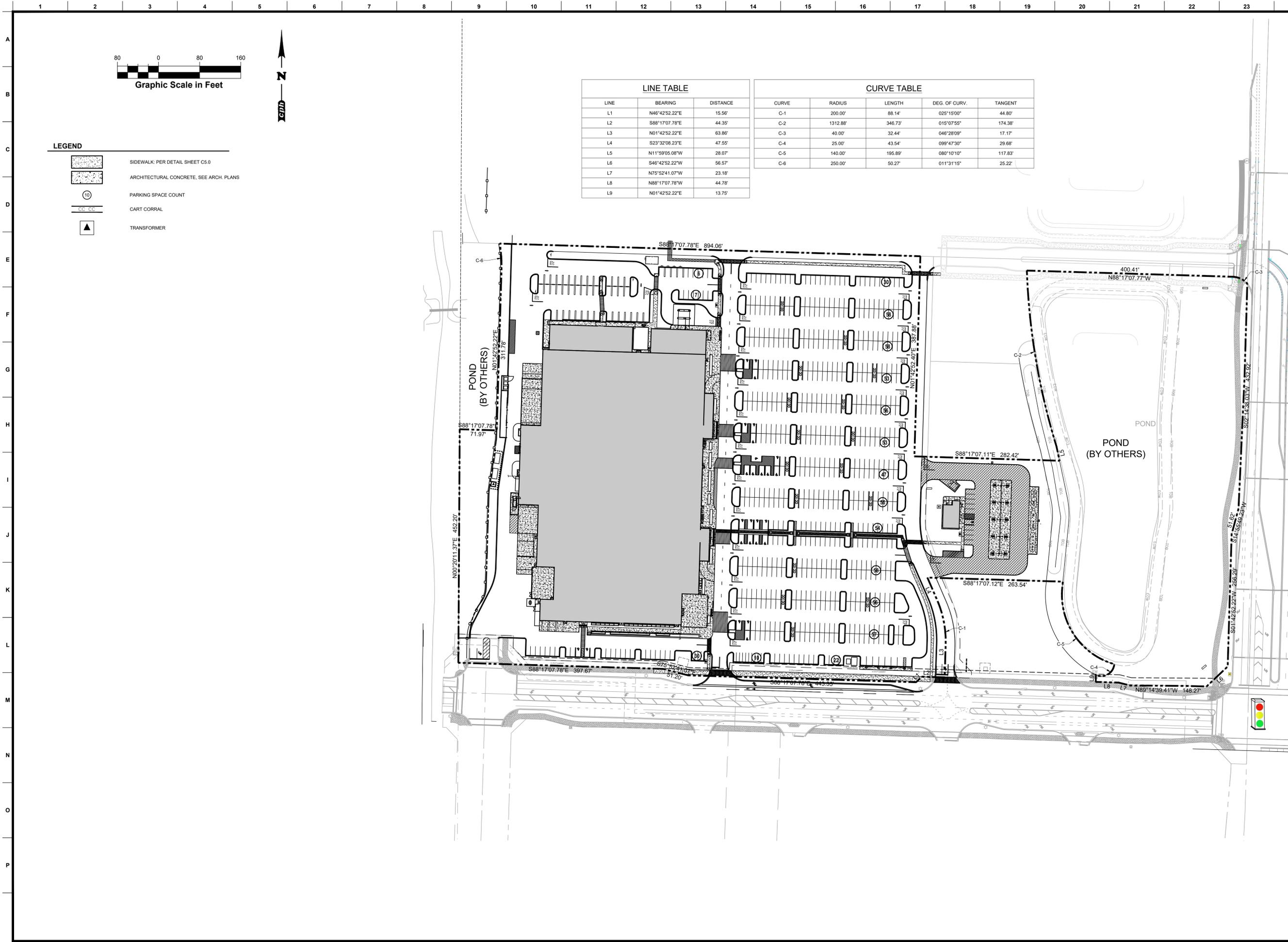
SWPPP DETAILS

BIG BOX RETAIL AND FUEL STATION

WESTLAKE / PALM BEACH COUNTY / FLORIDA

This sheet NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS.

Sheet No.
C1.8



LINE	BEARING	DISTANCE
L1	N46°42'52.22"E	15.56'
L2	S88°17'07.78"E	44.35'
L3	N01°42'52.22"E	63.86'
L4	S23°32'08.23"E	47.55'
L5	N11°59'05.08"W	28.07'
L6	S46°42'52.22"W	56.57'
L7	N75°52'41.07"W	23.18'
L8	N88°17'07.78"W	44.78'
L9	N01°42'52.22"E	13.75'

CURVE	RADIUS	LENGTH	DEG. OF CURV.	TANGENT
C-1	200.00'	88.14'	025°15'00"	44.80'
C-2	1312.88'	346.73'	015°07'55"	174.38'
C-3	40.00'	32.44'	046°28'09"	17.17'
C-4	25.00'	43.54'	099°47'30"	23.68'
C-5	140.00'	195.89'	080°10'10"	117.83'
C-6	250.00'	50.27'	011°31'15"	25.22'



Plans Prepared By:
 CPH, LLC
 A Full Service A & E Firm

JOSHUA D. LOCKHART, P.E.
 F.L.P.E. #74011

This item has been digitally signed and sealed by Joshua D. Lockhart, PE on the date adjacent to the seal. Signature must be verified on any electronic copies.

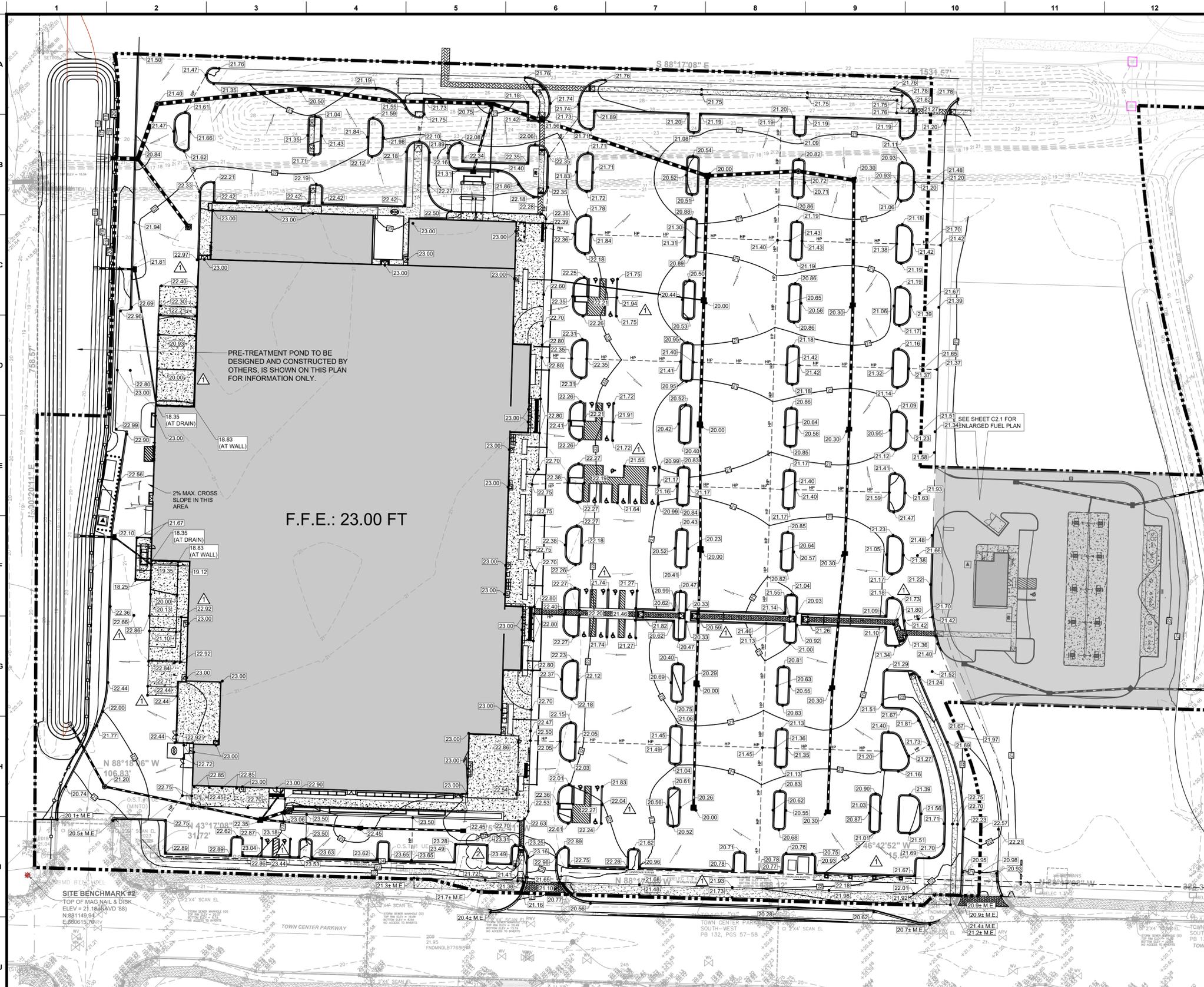
No.	Date	Revision
1	02/02/26	PER DEVELOPER COMMENTS

Designed: M. LOMELI
 Drawn: D. COLLAZO
 Checked: J. LOCKHART
 Job No.: W131372
 Date: 01/2025 © 2026

OVERALL SITE PLAN
BIG BOX RETAIL AND FUEL STATION
 WESTLAKE / PALM BEACH COUNTY / FLORIDA

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS.

Sheet No.
C1.9



LEGEND

	PROPERTY LINE		DIRECTION OF FLOW
	BUFFER LINE		HANDICAP RAMP
	GUIDE RAIL		1:12 SLOPE (MAX)
	FENCE (AS NOTED ON PLAN)		STORM / SANITARY MANHOLE
	CONTOUR ELEVATION		DITCH BOTTOM INLET
	HIGH POINT		MITERED END SECTION
	STORM PIPE		
	TOP OF WALL ELEV.		
	FINISH GRADE ELEV.		
	TOP OF CURB ELEV.		
	PAVEMENT ELEV.		
	PAVEMENT ELEV.		



PRELIMINARY SUBSURFACE PAD PREPARATION

UNLESS SPECIFICALLY INDICATED OTHERWISE IN THE DRAWINGS AND/OR SPECIFICATIONS, THE LIMITS OF THIS SUBSURFACE PREPARATION ARE CONSIDERED TO BE THAT PORTION OF THE SITE DIRECTLY BENEATH AND 5 FEET BEYOND THE BUILDING AND APPURTENANCES.

SPECIFIERS NOTE: WHEN THE BUILDING AND APPURTENANCES ARE LOCATED WITHIN A DISTANCE EQUAL TO THE HEIGHT OF AN ESCARPMENT CREATED BY PLACING FILL OR A RETAINING WALL, THE LIMITS OF THE BUILDING PAD SHALL BE INCREASED BY THE HEIGHT OF THE ESCARPMENT.

APPURTENANCES ARE THOSE ITEMS ATTACHED TO THE BUILDING PROPER (REFER TO DRAWING SHEET SP1), TYPICALLY INCLUDING, BUT NOT LIMITED TO, THE BUILDING SIDEWALKS, GREENHOUSE CANOPIES, PORCHES, RAMPS, STOPS, TRUCK WELLS/DOCKS, CONCRETE APRONS AT THE AUTOMOTIVE CENTER, COMPACTOR PAD, ETC. APPURTENANCES SHALL ALSO INCLUDE SCREENWALLS AT THE COMPACTOR, TRUCK DOCK AND THE BALE/PALLET STORAGE AREA(S). THE INTERIOR SLAB-ON-GRADE BASE AND THE VAPOR BARRIER, WHERE REQUIRED, DO NOT EXTEND BEYOND THE LIMITS OF THE ACTUAL BUILDING.

SPECIFIER'S NOTE: Delete the sentence: "The Base and Subbase shall be provided by the building contractor in joint projects." in the following paragraph for all projects except "joint" projects. Refer to the PWO under the general heading for the project type to determine whether or not the project is a "joint" project.

NOTE TO CEC/GEOTECH: If the site does NOT require an additional subbase to improve structural properties of the subgrade, delete all references to subbase in the paragraph below. CEC/Geotech's are to evaluate the cost effectiveness and use of granular materials compared with other earthwork options to provide the required floor slab subgrade properties. The below base in the final pad prep note will be a densely graded DOT Specified material as chosen by the Wal-Mart concrete slab consultant (minimum 6" thick for Sans Clubs and minimum 4" thick for all other stores). Specific language shall include thickness of subbase, material type, and gradation requirements.

ESTABLISH THE FINAL SUBGRADE ELEVATION TO ALLOW FOR THE CONCRETE SLAB, BASE, AND SUBBASE (IF SUBBASE IS REQUIRED BELOW). REFERENCE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR REQUIRED SLAB THICKNESS. FOR THE BUILDING INTERIOR SLAB-ON-GRADE, THE 1/2" THICK BASE MATERIAL SHALL CONFORM TO [Insert Wal-Mart Assigned Concrete Consultants Recommended State Dot RoadBase. This will not be filled out in the initial geotech report. Only fill this in after the required coordination with the AOR/Wal-Mart assigned concrete consultant]. FOR APPURTENANCE SLABS (EXTERIOR SLABS), THE 4" THICK BASE MATERIAL SHALL CONFORM TO [Insert CEC/Geotechnical Specified Material corresponding to standard or heavy duty paving]. THE 1/2" SUBBASE MATERIAL SHALL BE [Insert CEC/Geotechnical Specified Material]. THE BASE AND SUBBASE SHALL BE PROVIDED BY THE BUILDING CONTRACTOR IN JOINT PROJECTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ACCURATE MEASUREMENTS FOR ALL CUT AND FILL DEPTHS REQUIRED. ANY PROPOSED EQUIVALENT ALTERNATIVE BASE OR SUBBASE MATERIAL MUST BE SUBMITTED FOR APPROVAL WITHIN 30 DAYS AFTER AWARD OF CONTRACT. ANY EQUIVALENT ALTERNATIVE SHALL ONLY BE USED IF APPROVED IN WRITING BY THE CEC AND AOR.

EXISTING FOUNDATIONS, SLABS, PAVEMENTS, AND BELOW-GRADE STRUCTURES SHALL BE REMOVED FROM THE BUILDING AREA. REMOVE SURFACE VEGETATIONS, TOPSOIL, ROOT SYSTEMS, ORGANIC MATERIAL, EXISTING FILL, AND SOFT OR OTHERWISE UNSATISFACTORY MATERIAL FROM THE BUILDING AREA. PROOFROLL EXPOSED SUBGRADE. REMOVE AND REPLACE UNSATISFACTORY AREAS WITH SATISFACTORY MATERIAL. SUBGRADE MATERIAL SHALL BE FREE OF ORGANIC AND OTHER DELETERIOUS MATERIALS AND SHALL MEET THE FOLLOWING REQUIREMENTS:

SPECIFIER'S NOTE: Revise specific requirements as needed including special soil preparation (remove and replace, disk and re-compact, soil treatment, etc.) required below footings or slab.

LOCATION WITH RESPECT TO FINAL GRADE	P.I.	L.L.
BUILDING AREA, BELOW UPPER 4 FEET	<20 MAX.>	<50 MAX.>
BUILDING AREA, UPPER 4 FEET	<12 MAX.>	<40 MAX.>

SUBGRADE MATERIAL SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING 12 INCHES IN THICKNESS AND COMPACTED TO AT LEAST 98 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D1557) AT A MOISTURE CONTENT WITHIN 1/2 PERCENT BELOW TO 1/2 PERCENT ABOVE THE OPTIMUM.

THE FOUNDATION SYSTEM SHALL BE ISOLATED SPREAD FOOTINGS AT COLUMNS AND CONTINUOUS SPREAD FOOTINGS AT WALLS.

THIS FOUNDATION SUBSURFACE PREPARATION DOES NOT CONSTITUTE A COMPLETE SITE WORK SPECIFICATION. IN CASE OF CONFLICT, INFORMATION COVERED IN THIS PREPARATION SHALL TAKE PRECEDENCE OVER THE WAL-MART SPECIFICATIONS. REFER TO THE SPECIFICATIONS FOR SPECIFIC INFORMATION NOT COVERED IN THIS PREPARATION. THIS INFORMATION WAS TAKEN FROM A GEOTECHNICAL REPORT PREPARED BY UES, DATED October 28, 2024. (GEOTECHNICAL REPORT IS FOR INFORMATION ONLY AND IS NOT A CONSTRUCTION SPECIFICATION).

(SPECIFIER'S NOTE: Specific language should be included when preparing a pad prep for a special foundation, chemical modification, settlement monitoring, or special materials. Design requirements/assumptions should be provided by the Geotechnical Engineer for inclusion in Civil and Structural documents)

- Shot rock (include specific language)
- Lime Stabilization (include specific language)
- Surcharge (include specific language)
- Settlement plates (include specific direction for construction, WM provided plan sheet, details for plates, number and locations) (Reference CEC Special Observation for associated professional responsibilities for this work)

SPECIFIER'S NOTE: An E-Mail address for the Geotechnical Engineer ELconAgular@tesm.us

- Additional Requirements:
1. A final review of the pad prep before the construction documents are completed is required.
 2. The email address of the Geotechnical Engineer shall not show on the final pad prep note on the construction documents.



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Plans Prepared By:
 CPH, LLC
 A Full Service A & E Firm

JOSHUA D. LOCKHART, P.E.
 F.L.P.E. #74011

This item has been digitally signed and sealed by Joshua D. Lockhart, PE on the date adjacent to the seal. Signature must be verified on any electronic copies.

No.	Date	Revision
1	02/02/26	PER DEVELOPER COMMENTS
2	01/09/26	PER CITY COMMENTS

Designed: M. LOMELI
 Drawn: D. COLLAZO
 Checked: J. LOCKHART
 Job No.: W131372
 Date: 01/20/25 © 2026

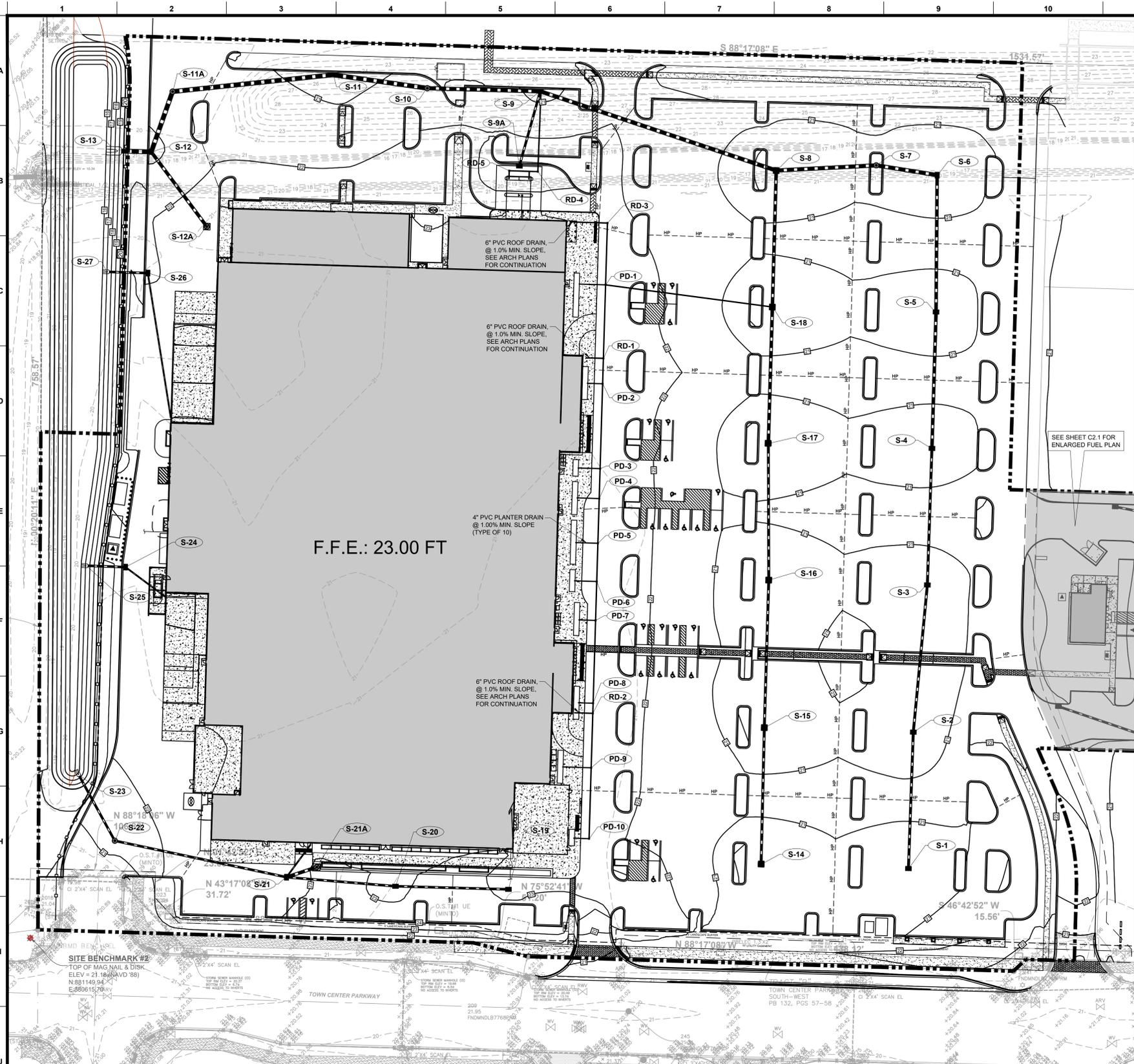
SITE GRADING PLAN

BIG BOX RETAIL AND FUEL STATION

WESTLAKE / PALM BEACH COUNTY / FLORIDA

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS.

Sheet No.
C1.11

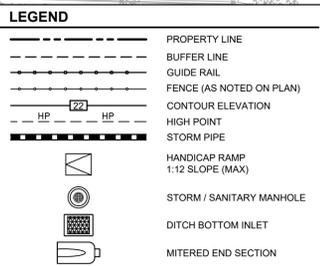


STORM DRAINAGE STRUCTURE TABLE				
STRUCTURE NUMBER	LOCATION	DESCRIPTION	FLOW LINE ELEVATIONS	RIM/TOP ELEVATION
S-1	N 881213.01 E 881417.14	TYPE E INLET PER FDOT 425-052	18.03 N	20.30
S-2	N 881336.93 E 881421.59	TYPE E INLET PER FDOT 425-052	17.86 S 17.86 N	20.30
S-3	N 881470.58 E 881434.42	TYPE E INLET PER FDOT 425-052	17.66 S 17.66 N	20.30
S-4	N 881564.63 E 881438.60	TYPE E INLET PER FDOT 425-052	17.48 S 17.48 N	20.30
S-5	N 881718.53 E 881442.35	TYPE E INLET PER FDOT 425-052	17.31 S 17.31 N	20.30
S-6	N 881842.78 E 881443.36	TYPE E INLET PER FDOT 425-052	17.12 S 17.12 W	20.30
S-7	N 881851.66 E 881387.78	STORM MANHOLE PER FDOT 425-010	17.04 E 17.04 W	21.23
S-8	N 881846.95 E 881296.52	TYPE E INLET PER FDOT 425-052	16.91 E 16.90 W 16.92 S	20.00
S-9	N 881918.94 E 881081.09	TYPE E INLET PER FDOT 425-052	16.60 E 16.60 W 16.66 S 16.65 S	20.75
S-9A	N 881951.08 E 881052.04	TYPE E INLET PER FDOT 425-052	17.00 N	21.32
S-10	N 881921.74 E 880979.00	STORM MANHOLE PER FDOT 425-001	16.45 E 16.45 W	21.44
S-11	N 881933.97 E 880981.81	TYPE E INLET PER FDOT 425-052	16.33 E 16.33 W	20.50
S-11A	N 881918.66 E 880745.50	STORM MANHOLE PER FDOT 425-001	16.13 E 16.13 S	21.40
S-12	N 881863.93 E 880726.09	TYPE E INLET PER FDOT 425-052, W/ J BOTTOM	16.04 W 16.04 N 16.04 SE	20.80
S-12A	N 881796.06 E 880776.81	SIPHONIC MANHOLE	16.16 NW	22.57
S-13	N 881864.71 E 880695.38	MITERED END SECTION PER FDOT 430-021	16.00 E	N/A
S-14	N 881217.03 E 881282.69	TYPE E INLET PER FDOT 425-052	17.80 N	20.00
S-15	N 881340.98 E 881285.65	TYPE E INLET PER FDOT 425-052	17.62 S 17.62 N	20.00
S-16	N 881475.01 E 881289.70	TYPE E INLET PER FDOT 425-052	17.44 S 17.44 N	20.00
S-17	N 881599.05 E 881289.31	TYPE E INLET PER FDOT 425-052	17.26 S 17.26 N	20.00
S-18	N 881723.00 E 881293.02	TYPE E INLET PER FDOT 425-052	17.09 S 17.09 N 17.50 W	20.00
S-19	N 881194.12 E 881052.03	TYPE E INLET PER FDOT 425-052	17.98 W	22.45
S-20	N 881196.93 E 880949.01	TYPE E INLET PER FDOT 425-052	17.45 E 17.45 W	22.45
S-21	N 881205.16 E 880849.52	TYPE E INLET PER FDOT 425-052, W/ J BOTTOM	16.92 E 16.92 W 16.00 E 17.00 NE	22.35
S-21A	N 881214.29 E 880877.09	SIPHONIC MANHOLE	19.04 W	23.10
S-22	N 881238.23 E 880652.79	STORM MANHOLE PER FDOT 425-010	16.34 E 16.34 NW	21.20
S-23	N 881298.28 E 880659.78	MITERED END SECTION PER FDOT 430-021	16.00 SE	N/A
S-24	N 881486.79 E 880702.54	TYPE E INLET PER FDOT 425-052	16.20 W 16.20 SE	22.10
S-25	N 881488.03 E 880666.76	MITERED END SECTION PER FDOT 430-021	16.00 E	N/A
S-26	N 881753.85 E 880722.92	TYPE E INLET PER FDOT 425-052	16.11 W 16.20 S	21.80
S-27	N 881754.94 E 880686.27	MITERED END SECTION PER FDOT 430-021	16.00 E	N/A

STORM PIPE SCHEDULE			
NO.	LENGTH	SIZE	SLOPE
S-1 TO S-2	122'	18" STORM PIPE	0.14%
S-2 TO S-3	132'	18" STORM PIPE	0.15%
S-3 TO S-4	122'	18" STORM PIPE	0.15%
S-4 TO S-5	121'	24" STORM PIPE	0.14%
S-5 TO S-6	53'	30" STORM PIPE	0.14%
S-6 TO S-7	88'	30" STORM PIPE	0.14%
S-7 TO S-8	223'	30" STORM PIPE	0.13%
S-8 TO S-9A	68'	15" STORM PIPE	0.50%
S-9 TO S-10	99'	30" STORM PIPE	0.15%
S-10 TO S-11	83'	36" STORM PIPE	0.14%
S-11 TO S-11A	143'	36" STORM PIPE	0.14%
S-11A TO S-12	54'	36" STORM PIPE	0.15%
S-12 TO S-13	26'	36" STORM PIPE	0.15%
S-12A TO S-12	80'	24" STORM PIPE	0.14%
S-14 TO S-15	121'	18" STORM PIPE	0.14%
S-15 TO S-16	132'	18" STORM PIPE	0.14%
S-16 TO S-17	122'	18" STORM PIPE	0.14%
S-17 TO S-18	122'	24" STORM PIPE	0.14%
S-18 TO S-8	122'	24" STORM PIPE	0.14%
S-19 TO S-20	99'	15" STORM PIPE	0.52%
S-20 TO S-21	95'	15" STORM PIPE	0.53%
S-21 TO S-22	156'	15" STORM PIPE	0.36%
S-21A TO S-21	26'	24" STORM PIPE	0.14%
S-22 TO S-23	66'	15" STORM PIPE	0.50%
S-24 TO S-25	33'	15" STORM PIPE	0.55%
S-26 TO S-27	34'	15" STORM PIPE	0.30%

ROOF AND PLANTER CLEANOUT TABLE				
STRUCTURE NUMBER	LOCATION	DESCRIPTION	FLOW LINE ELEVATIONS	RIM/TOP ELEVATION
PD-1	N 881743.13 E 881140.74	PLANTER DRAIN	18.27 E 18.27 S 18.27 W 18.37 N	22.50
PD-2	N 881653.33 E 881138.05	PLANTER DRAIN	18.72 N 18.72 S 18.72 W	22.68
PD-3	N 881576.24 E 881135.74	PLANTER DRAIN	19.10 N 19.10 S 19.10 W	22.66
PD-4	N 881549.04 E 881134.93	PLANTER DRAIN	19.24 N 19.24 S 19.24 W	22.61
PD-5	N 881508.46 E 881133.72	PLANTER DRAIN	19.44 N 19.44 S 19.44 W	22.60
PD-6	N 881473.71 E 881132.68	PLANTER DRAIN	19.61 N 19.61 S 19.61 W	22.60
PD-7	N 881438.37 E 881131.62	PLANTER DRAIN	19.79 N 19.79 S 19.79 W	22.65
PD-8	N 881363.17 E 881129.37	PLANTER DRAIN	20.17 N 20.17 S 20.17 W	22.68
PD-9	N 881304.55 E 881127.61	PLANTER DRAIN	20.46 N 20.46 S 20.46 W	22.52
PD-10	N 881240.15 E 881125.68	PLANTER DRAIN	20.78 N 20.78 W	22.39
RD-1	N 881676.40 E 881138.74	ROOF DRAIN	18.60 N 18.60 S 18.60 W	22.68
RD-2	N 881354.01 E 881129.09	ROOF DRAIN	20.22 N 20.22 S 20.22 W	22.68
RD-3	N 881799.29 E 881142.42	ROOF DRAIN	18.65 S 18.65 W	22.36
RD-4	N 881845.98 E 881078.91	ROOF DRAIN	17.39 N 17.39 W	21.46
RD-5	N 881846.77 E 881052.80	ROOF DRAIN	17.65 E 17.65 S	21.46

ROOF AND PLANTER PIPE TABLE			
NO.	LENGTH	SIZE	SLOPE
PD-1 TO RD-1	63'	6" STORM PIPE	0.49%
PD-1 TO RD-3	53'	6" STORM PIPE	0.50%
PD-2 TO PD-3	74'	6" STORM PIPE	0.50%
PD-3 TO PD-4	24'	6" STORM PIPE	0.51%
PD-4 TO PD-5	37'	6" STORM PIPE	0.49%
PD-5 TO PD-6	31'	6" STORM PIPE	0.49%
PD-6 TO PD-7	32'	6" STORM PIPE	0.51%
PD-7 TO PD-8	72'	6" STORM PIPE	0.51%
PD-8 TO RD-2	6'	6" STORM PIPE	0.55%
PD-9 TO PD-10	62'	6" STORM PIPE	0.50%
RD-1 TO PD-2	20'	6" STORM PIPE	0.50%
RD-2 TO PD-9	46'	6" STORM PIPE	0.49%
RD-4 TO TEE	6'	6" STORM PIPE	1.00%
S-9 TO RD-4	70'	6" STORM PIPE	1.01%
S-18 TO PD-1	150'	6" STORM PIPE	0.50%
TEE TO RD-5	17'	6" STORM PIPE	1.00%



- NOTES:**
- GRADING SHOWN ON THESE PLANS IS PROVIDED TO THE CONTRACTOR TO EXPRESS THE GENERAL GRADING INTENT OF THE PROJECT. THE CONTRACTOR SHALL BE EXPECTED TO GRADE THE ENTIRE SITE TO ENSURE POSITIVE DRAINAGE IN ALL AREAS THROUGHOUT THE SITE. THE FOLLOWING MINIMUM SLOPES SHALL BE PROVIDED BY THE CONTRACTOR:
 - ASPHALT PAVEMENT: MIN. 1% SLOPE
 - CONCRETE PAVEMENT: MIN. 1% SLOPE
 - GUTTERS: MIN 0.5%
 - STRUCTURE BOTTOMS SHALL BE TYPE "B" BOTTOMS PER FDOT REQUIREMENTS, UNLESS PIPE SIZES AND LOCATION REQUIRE A TYPE "J" BOTTOM. CONTRACTOR SHALL REVIEW DESIGN AND PROVIDE APPROPRIATELY SIZED BOTTOMS PER FDOT REQUIREMENTS.
 - CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ADA AREAS ARE CONSTRUCTED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION. IF THE CONTRACTOR DETERMINES THAT ANY INFORMATION SHOWN ON THIS PLAN MAY NOT BE IN COMPLIANCE THEY SHALL NOTIFY THE ENGINEER PRIOR TO THE WORK BEING COMPLETED.
 - SEE SHEET C0.3 FOR BUILDING PAD PREPARATION NOTE.
 - ALL PROPOSED INLET GRATES ARE TO BE RETICULINE STEEL.
 - PIPE LENGTHS ASSOCIATED WITH MITER END SECTIONS DO NOT INCLUDE THE SEGMENT TO BE INCLUDED UNDER THE UNIT PRICE FOR MES (AKA DIMENSION F, FDOT INDEX NOS. 430-021 AND 430-022).

DEWATERING NOTE:
WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUNDWATER MANAGEMENT TO CONTROL MOISTURE OF SOILS. REFER TO MASTER SITE SPECIFICATIONS.

PIPE MATERIALS:
STORMWATER PIPE
RCP PIPE SHALL COMPLY WITH ASTM C76
ERCP PIPE SHALL COMPLY WITH ASTM C507
HDPE PIPE SHALL COMPLY WITH ASTM D3350
PVC PIPE SHALL COMPLY WITH ASTM D3034, SDR 35

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Ph: 863-252-2761

Plans Prepared By:
CPH, LLC
A Full Service A & E Firm

JOSHUA D. LOCKHART, P.E.
FL P.E. #74011

This item has been digitally signed and sealed by Joshua D. Lockhart, PE on the date adjacent to the seal. Signature must be verified on any electronic copies.

Date	Revision
02/02/26	PER DEVELOPER COMMENTS
01/08/26	PER CITY COMMENTS

Designed: M. LOMELI
Drawn: D. COLLAZO
Checked: J. LOCKHART
Job No.: W131372
Date: 01/20/25 © 2026

STORM INLET SCHEDULE

BIG BOX RETAIL AND FUEL STATION

WESTLAKE / PALM BEACH COUNTY / FLORIDA

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS.

Sheet No.
C1.12

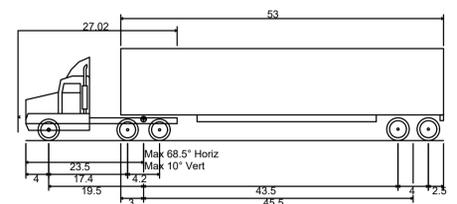
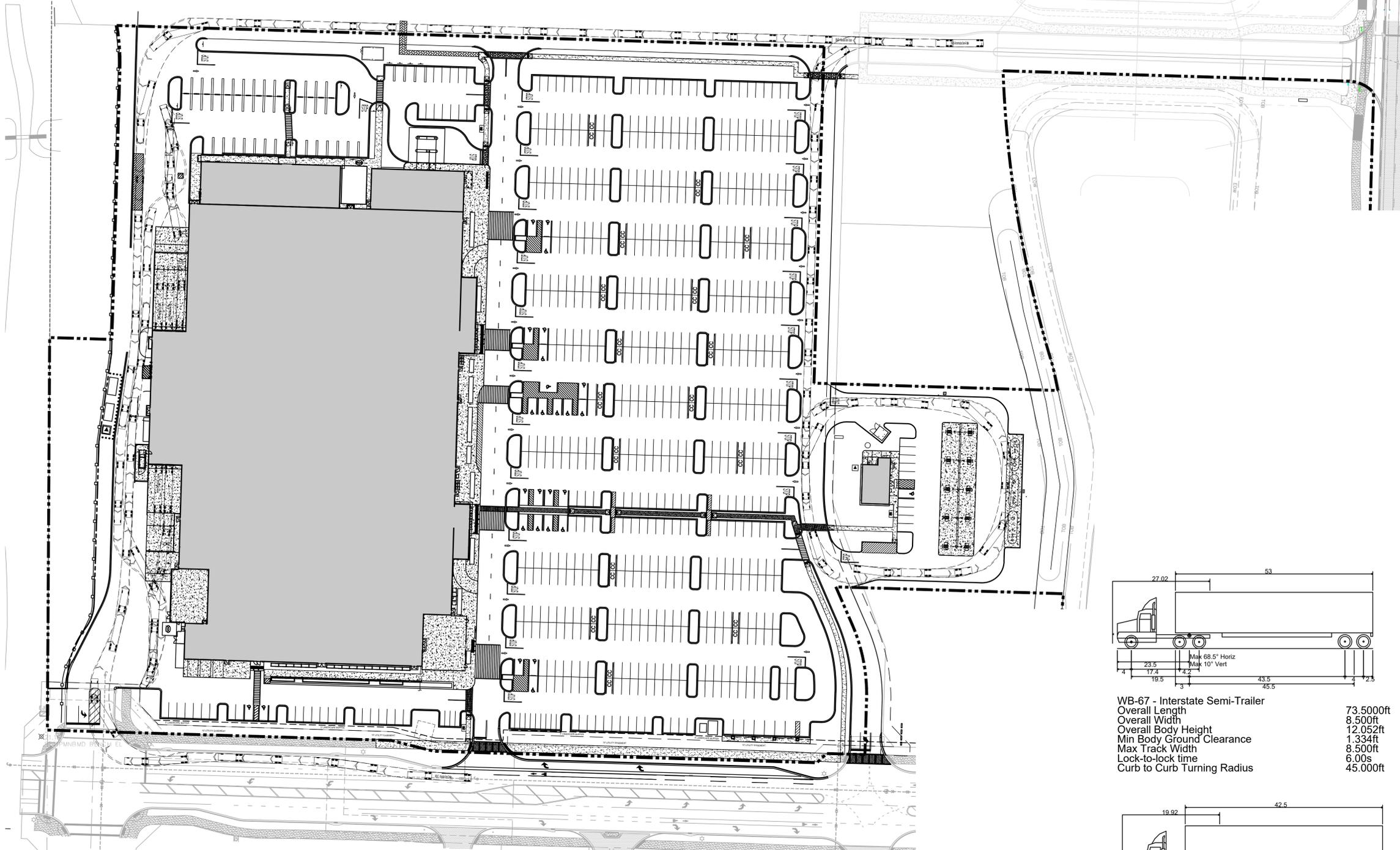
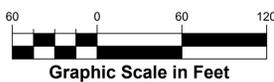
No.	Date	Revision
1	02/02/26	PER DEVELOPER COMMENTS

Designed: M. LOMELI
 Drawn: D. COLLAZO
 Checked: J. LOCKHART
 Job No.: W131372
 Date: 01/2025 © 2026

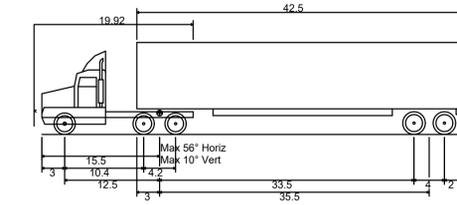
VEHICLE TRUCK TURN
BIG BOX RETAIL AND FUEL STATION
 WESTLAKE / PALM BEACH COUNTY / FLORIDA

THIS SHEET NOT VALID FOR
 CONSTRUCTION WITHOUT
 COMPLETE SET OF PLANS.

Sheet No.
C2.0



WB-67 - Interstate Semi-Trailer
 Overall Length 73.500ft
 Overall Width 8.500ft
 Overall Body Height 12.052ft
 Min Body Ground Clearance 1.334ft
 Max Track Width 8.500ft
 Lock-to-lock time 6.00s
 Curb to Curb Turning Radius 45.000ft

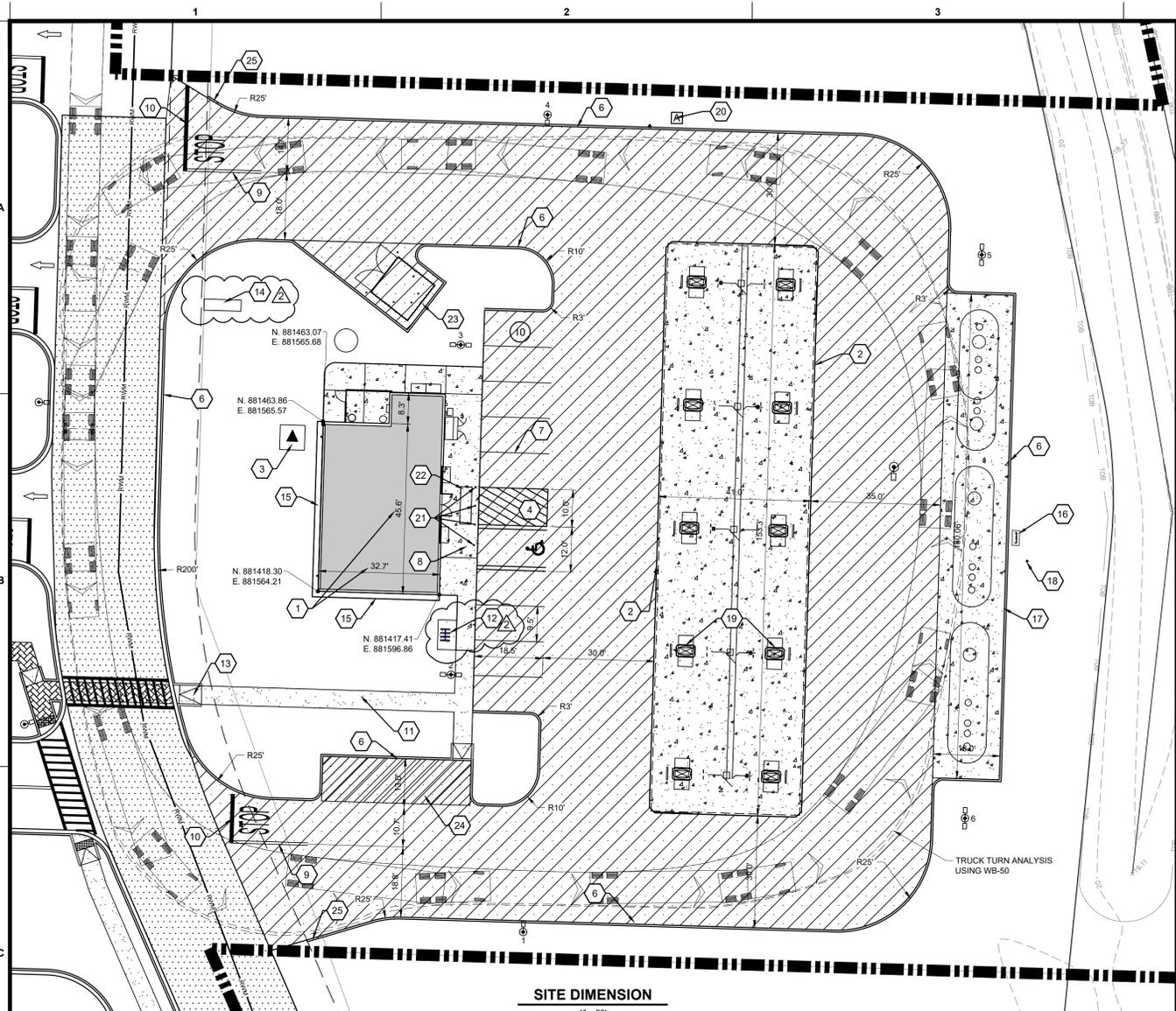


WB-50 - Intermediate Semi-Trailer
 Overall Length 55.000ft
 Overall Width 8.500ft
 Overall Body Height 12.052ft
 Min Body Ground Clearance 1.334ft
 Max Track Width 8.500ft
 Lock-to-lock time 6.00s
 Curb to Curb Turning Radius 45.000ft

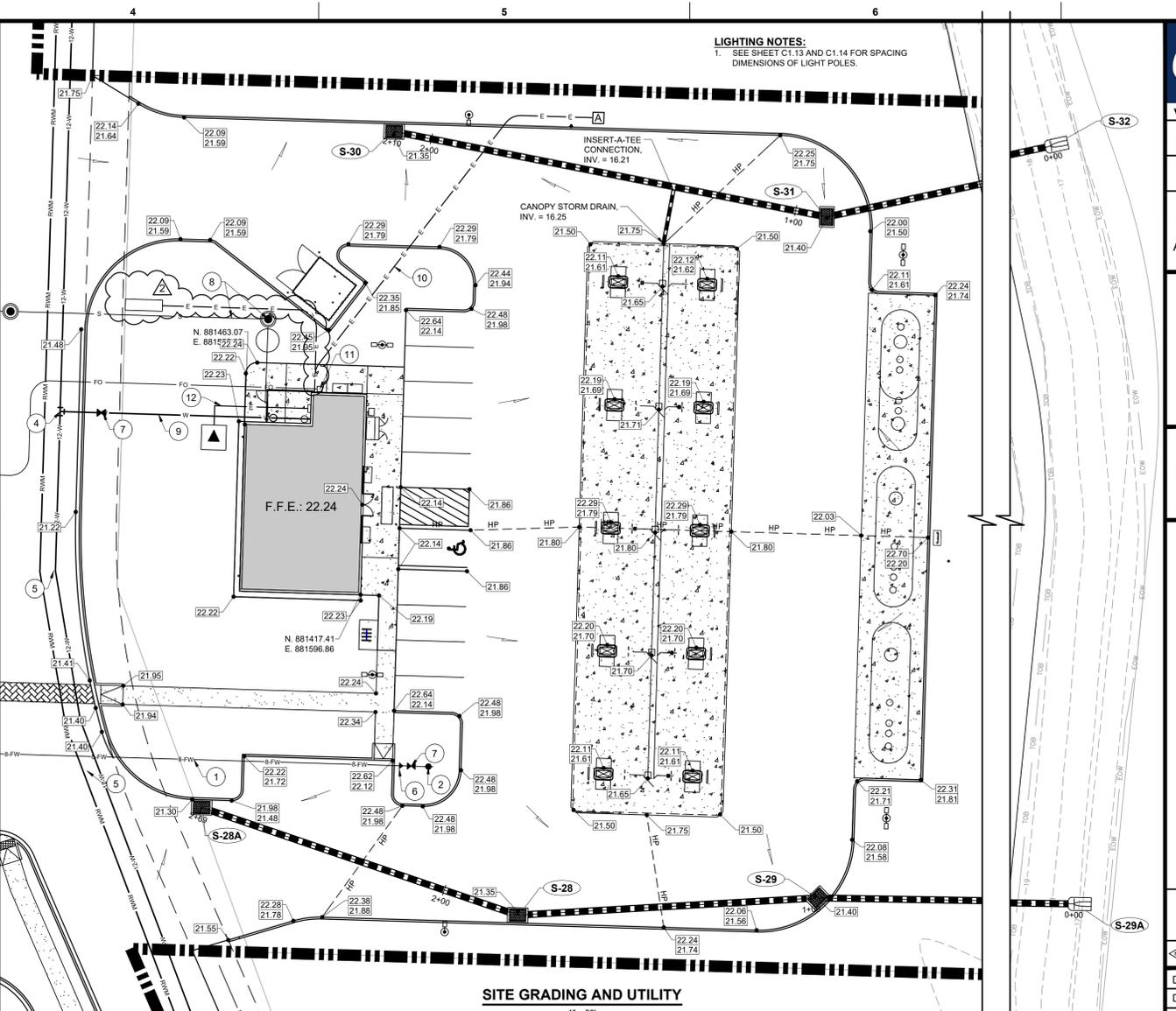
NOTE:
 ITEMS SHOWN SCREENED REPRESENT EXISTING
 CONDITIONS. ITEMS SHOWN BOLD REPRESENT
 PROPOSED CONDITIONS.

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SITE DIMENSION
1" = 20'



SITE GRADING AND UTILITY
1" = 20'

LIGHTING NOTES:
1. SEE SHEET C1.13 AND C1.14 FOR SPACING DIMENSIONS OF LIGHT POLES.

PROPOSED LEGEND

- PROPERTY LINE
- - - PROPOSED BUFFER LINE
- GUIDE RAIL
- FENCE (AS NOTED ON PLAN)
- 10 PARKING SPACE COUNT
- ▲ TRANSFORMER
- ▲ HANDICAP RAMP 1:12 SLOPE (MAX)
- UTILITY POLE
- SITE LIGHTING

PAINTING STRIPING LEGEND

- SWSL SINGLE WHITE SOLID LINE
- SYSL SINGLE YELLOW SOLID LINE
- DYSL DOUBLE YELLOW SOLID LINE

PROPOSED PAVEMENT LEGEND

- ▨ SIDEWALK: PER DETAIL SHEET
- ▨ ARCHITECTURAL CONCRETE, SEE ARCH. PLANS
- ▨ HEAVY DUTY CONCRETE: PER DETAIL SHEET
- ▨ HEAVY DUTY PAVEMENT: PER DETAIL SHEET
- ▨ STANDARD DUTY ASPHALT PAVEMENT: PER DETAIL SHEET

SIGN LEGEND

- (DNE) DO NOT ENTER (R5-1)
- (FL) NO PARKING - FIRE LANE (R7-94)
- (ST) STOP (R1-1)

LIGHT POLE LOCATIONS		
NO.	NORTHING	EASTING
1	881326.8960	881619.4976
2	881395.9162	881600.0223
3	881484.4021	881602.6716
4	881546.1311	881626.0613
5	881508.5535	881743.0345
6	881357.4084	881738.5094

SITE LEGEND

- 1 SEE ARCH PLANS FOR BUILDING DETAILS AND MEASUREMENTS.
- 2 SEE STRUCTURAL PLANS FOR GAS STATION CANOPY DETAILS.
- 3 CONCRETE TRANSFORMER PAD. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER FOR DETAILS.
- 4 ACCESSIBLE PARKING SPACE PER FDOT INDEX NO. 711-001 AND SIGNAGE PER FDOT INDEX NO. 700-102 TYPICAL. SEE DETAIL SHEET C5.2.
- 5 PEDESTRIAN CROSSWALK. SEE PLAN FOR WIDTH, SEE DETAIL SHEET C5.2.
- 6 CONCRETE INTEGRAL CURB, TYPICAL. SEE DETAIL SHEET C5.0.
- 7 PROPOSED SWSL / 4".
- 8 NEW SIGN MOUNTING AND BASE WITH BREAK AWAY POST. SEE DETAIL SHEET C5.3.
- 9 PROPOSED DYSL / 4" (LINES TO BE EXTENDED 20' FROM THE STOP BAR OR CROSSWALK), SEE DETAIL SHEET C5.1.
- 10 12" WIDE STOP BAR AND STOP MESSAGE PAINTED ON PAVEMENT. SEE DETAIL SHEET C5.1.
- 11 PROPOSED CONCRETE SIDEWALK, 5% MAX. LONGITUDINAL SLOPE, 2% MAX. CROSS SLOPE.
- 12 (1) PROPOSED BIKE RACK. TOTAL CAPACITY OF 8 BICYCLES.
- 13 PROPOSED HANDICAP RAMP TYPE CR-G, 1:12 MAX. SLOPE WITH 2" DEEP DETECTABLE WARNINGS, PER FDOT INDEX 522-002.
- 14 PROPOSED MONUMENT SIGN LOCATION. SEE ARCH PLANS FOR DETAILS.
- 15 PROPOSED CONCRETE RODENT BARRIER, SEE ARCH PLANS FOR DETAILS.
- 16 PROPOSED TANK VENT SYSTEM, REF. FUEL PLANS FOR DETAILS.
- 17 PROPOSED UNDERGROUND FUEL STORAGE TANKS, REF. FUEL PLANS FOR DETAILS.
- 18 PROPOSED E-STOP, REF. ARCH. PLANS FOR DETAILS.
- 19 PROPOSED FUEL DISPENSER (TYP.), REF. FUEL PLANS FOR DETAILS.
- 20 PROPOSED AIR STATION, REF. ARCH. PLANS FOR DETAILS.
- 21 PROPOSED PIPE BOLLARD, REF. ARCH. PLANS.
- 22 PROPOSED TACTILE WARNING, REF. ARCH. PLANS.
- 23 PROPOSED CMJ TRASH ENCLOSURE.
- 24 PROPOSED C-STORE LOADING ZONE.
- 25 PROPOSED NOSE DOWN CURB.

STORM DRAINAGE STRUCTURE TABLE				
STRUCTURE NUMBER	LOCATION	DESCRIPTION	FLOW LINE ELEVATIONS	RIM/TOP ELEVATION
S-28	N. 881331.42 E. 881639.19	TYPE E INLET PER FDOT 425-052	16.95 E 16.95 W	21.35
S-28A	N. 881360.30 E. 881554.04	TYPE E INLET PER FDOT 425-052	17.43 E	21.30
S-29	N. 881336.03 E. 881719.99	TYPE E INLET PER FDOT 425-052	16.51 W 16.51 E	21.40
S-29A	N. 881334.42 E. 881818.13	MITERED END SECTION PER FDOT 430-021	16.00 W	N/A
S-30	N. 881541.63 E. 881605.89	TYPE E INLET PER FDOT 425-052	16.39 E	21.35
S-31	N. 881518.72 E. 881722.46	TYPE E INLET PER FDOT 425-052	16.24 E 16.22 W	21.40
S-32	N. 881537.75 E. 881811.90	MITERED END SECTION PER FDOT 430-021	16.00 W	N/A

STORM PIPE SCHEDULE			
NO.	LENGTH	SIZE	SLOPE
S-28 TO S-29	77'	15" STORM PIPE	0.54%
S-28A TO S-28	86'	15" STORM PIPE	0.53%
S-29 TO S-29A	95'	15" STORM PIPE	0.52%
S-30 TO S-31	115'	15" STORM PIPE	0.14%
S-31 TO S-32	89'	15" STORM PIPE	0.26%

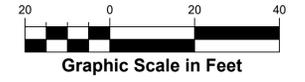
UTILITIES LEGEND

- 1 PROPOSED 8" DIP FIRE LINE.
- 2 PROPOSED FIRE HYDRANT ASSEMBLY.
- 3 PROPOSED 90 DEGREE BEND MATCHING LINE SIZE.
- 4 PROPOSED TEE MATCHING LINE SIZE.
- 5 PROPOSED 11.25 DEGREE BEND MATCHING LINE SIZE.
- 6 PROPOSED 8" X 6" REDUCER.
- 7 PROPOSED VALVE.
- 8 SEE SHEETS C1.13 AND C1.14 FOR SANITARY SEWER.
- 9 PROPOSED 2" DOMESTIC WATER LINE.
- 10 PROPOSED (1) 1" CONDUIT TO AIR STATION.
- 11 PROPOSED FIBER OPTIC PULL BOX.
- 12 PROPOSED (2) 2" CONDUITS FROM TRANSFORMER TO EXTERIOR 400A SERVICE SWITCH.



LEGEND

- HP HIGH POINT
- HP HIGH POINT
- STORM PIPE
- ELECTRIC LINE
- FIBER OPTIC
- FW FIRE WATER
- FM FORCE MAIN
- S SANITARY SEWER
- W WATER MAIN
- C.O. CLEAN OUT
- D.S. DOWN SPOUT
- XXX TOP OF CURB ELEV.
- XXX PAVEMENT ELEV.
- XXX PAVEMENT ELEV.
- DIRECTION OF FLOW
- STORM / SANITARY MANHOLE
- DITCH BOTTOM INLET
- MITERED END SECTION



www.cphcorp.com
1125 BARTOW RD
LAKELAND, FL 33801
Ph: 863-252-2761

Plans Prepared By:
CPh, LLC
A Full Service A & E Firm

This item has been digitally signed and sealed by Joshua O. Lockhart, PE on the date adjacent to the seal. Signature must be verified on any electronic copies.

No.	Date	Revision
1	02/02/26	PER DEVELOPER COMMENTS
2	01/08/26	PER CITY COMMENTS

Designed: M. LOMELI
Drawn: R. CARPENTIER
Checked: J. LOCKHART
Job No.: W131372
Date: 01/2025

© 2026

ENLARGED FUEL PLAN
BIG BOX RETAIL AND FUEL STATION
 WESTLAKE / PALM BEACH COUNTY / FLORIDA

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS.

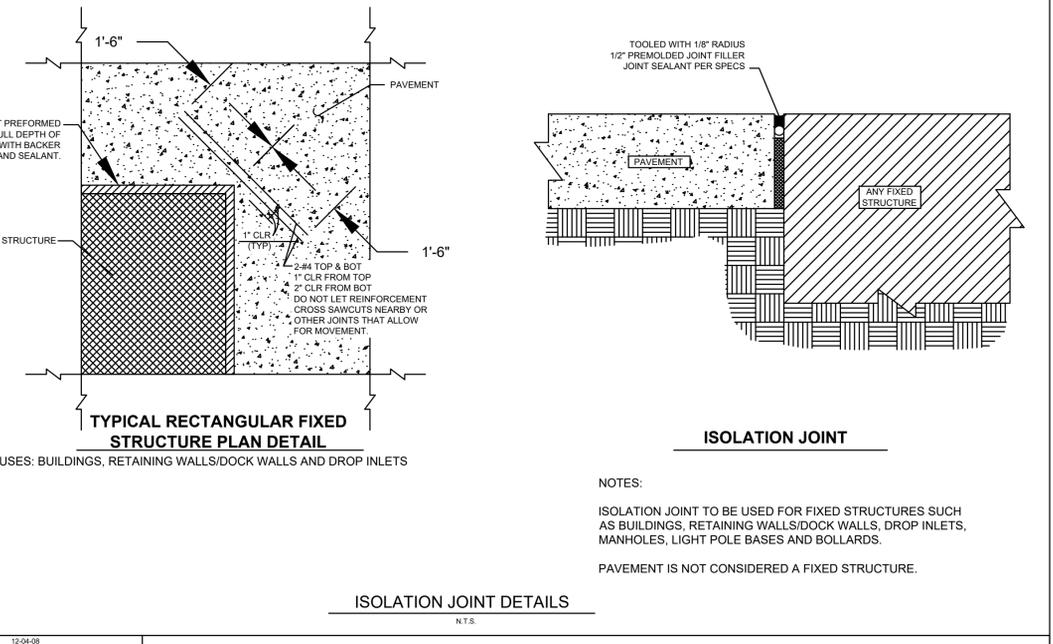
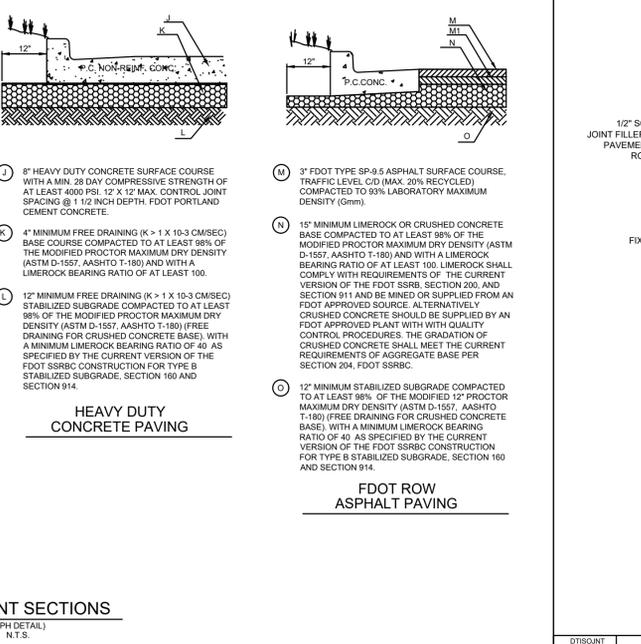
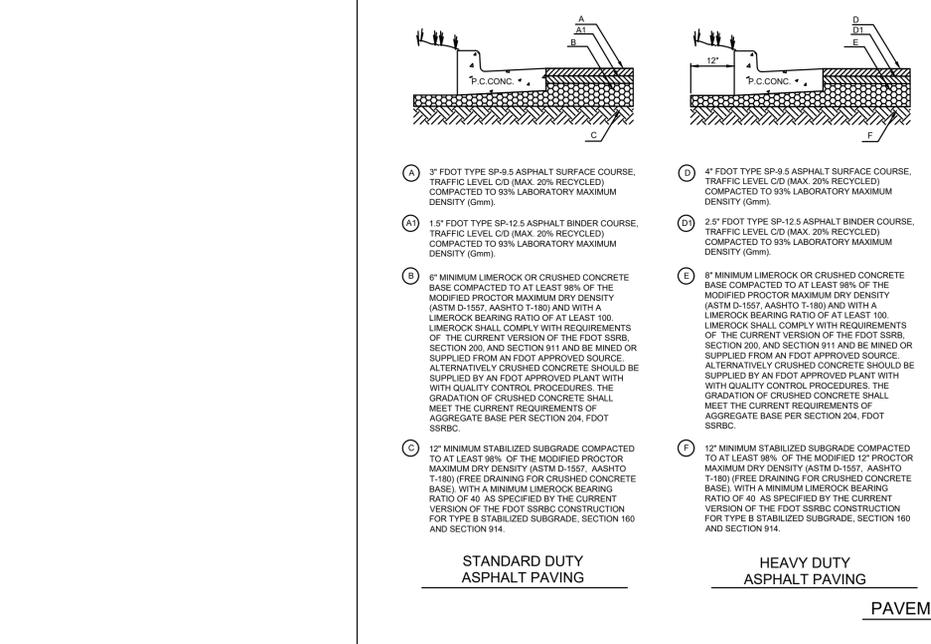
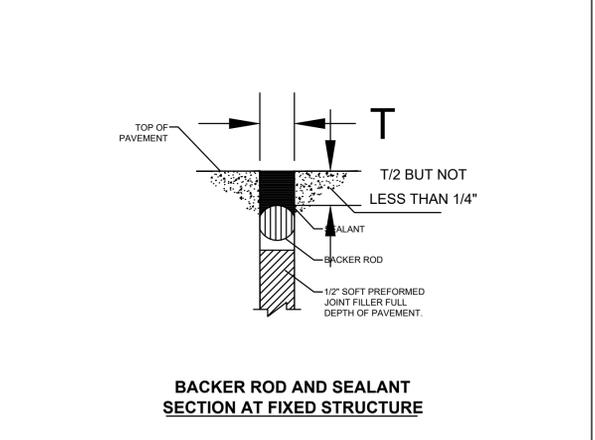
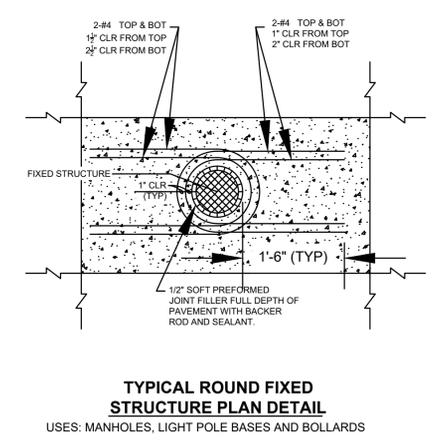
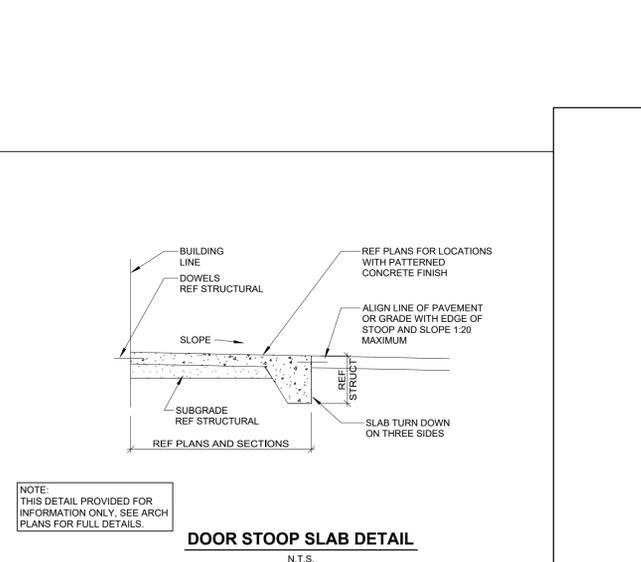
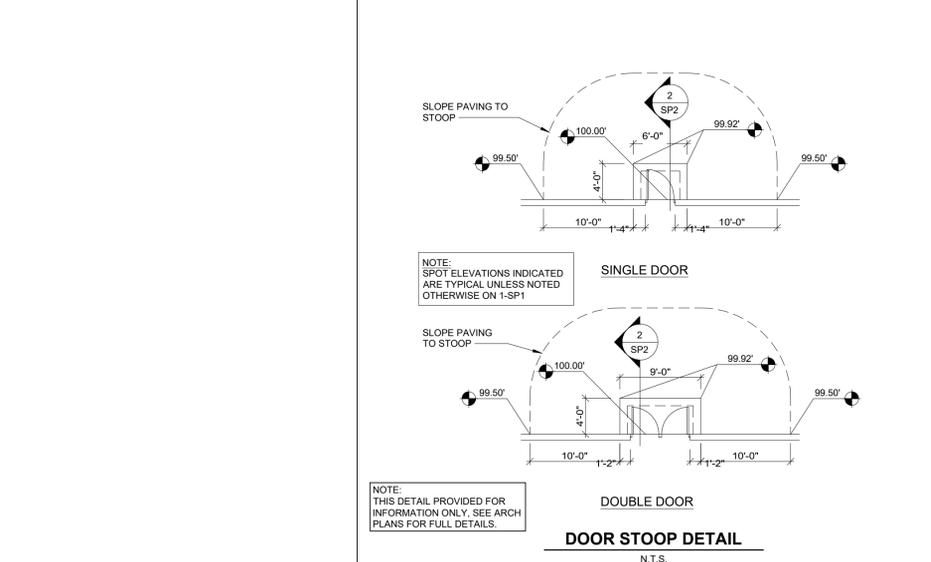
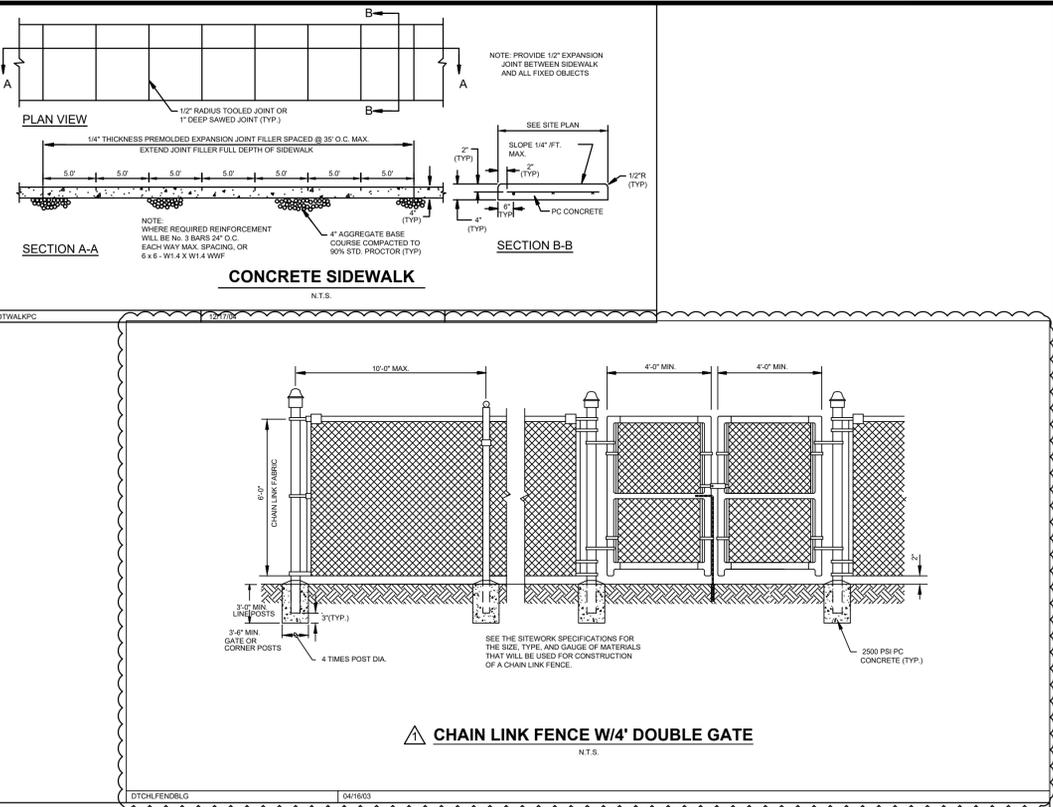
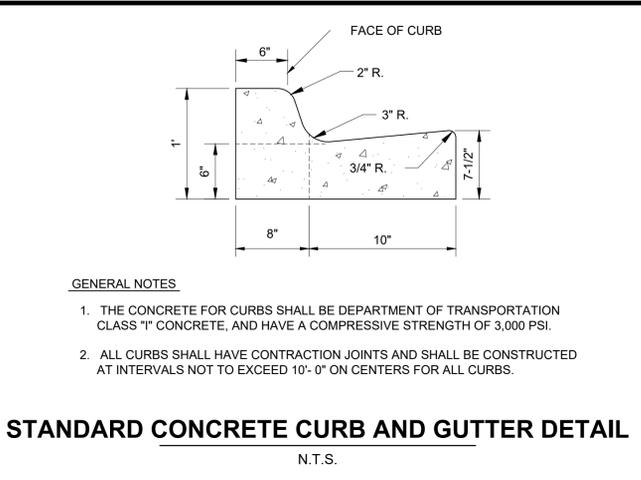
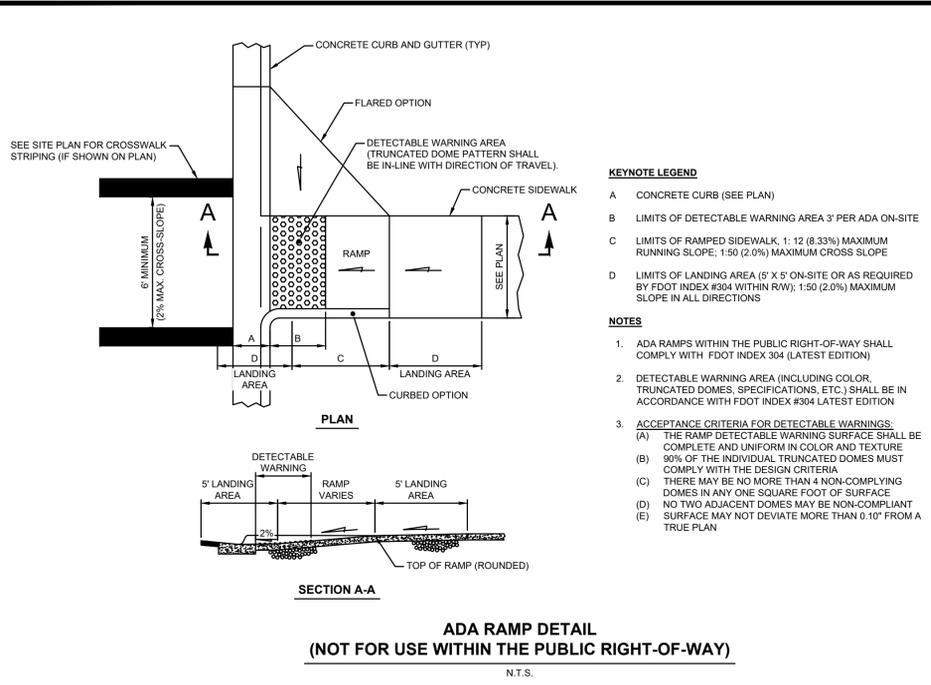
Sheet No.
C2.1

No.	Date	Revision
1	01/08/26	PER CITY COMMENTS
2	02/02/26	PER DEVELOPER COMMENTS

Designed: M. LOMELI
 Drawn: D. COLLAZO
 Checked: J. LOCKHART
 Job No.: W131372
 Date: 01/20/25 © 2026

PARKING PAVEMENT DETAILS
BIG BOX RETAIL AND FUEL STATION
 WESTLAKE / PALM BEACH COUNTY / FLORIDA

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS.



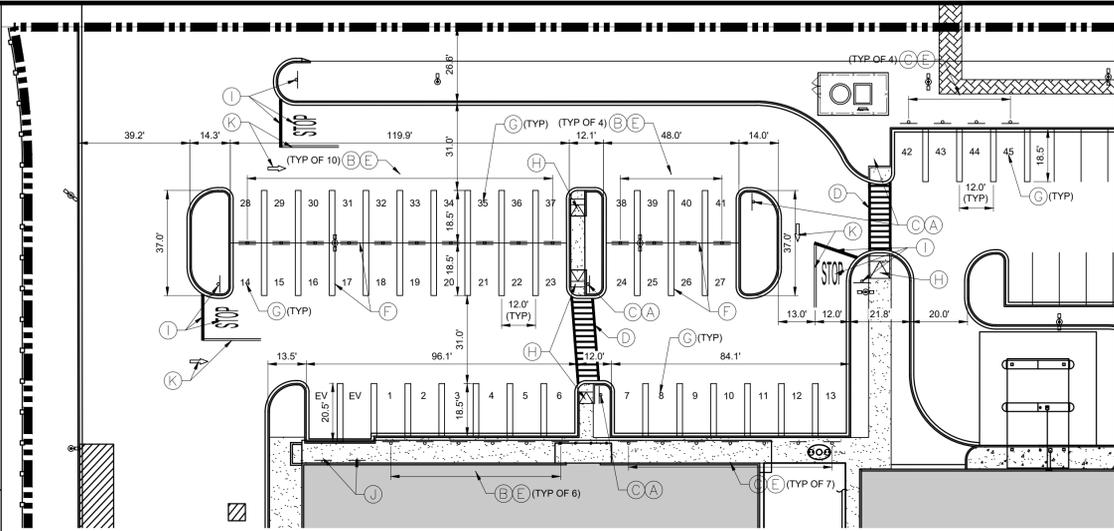
No.	Date	Revision
1	02/02/26	PER DEVELOPER COMMENTS

Designed: M. LOMELI
 Drawn: D. COLLAZO
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 Job No.: W131372
 Date: 01/2025 © 2026

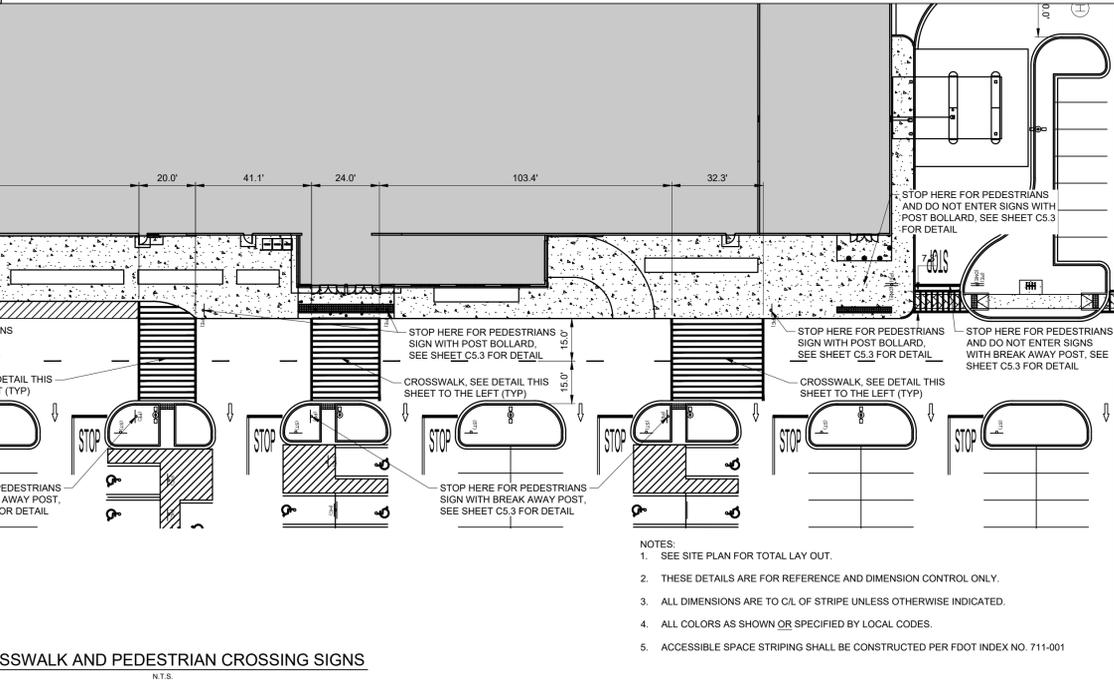
PAVEMENT MARKINGS DETAILS
BIG BOX RETAIL AND FUEL STATION
 WESTLAKE / PALM BEACH COUNTY / FLORIDA

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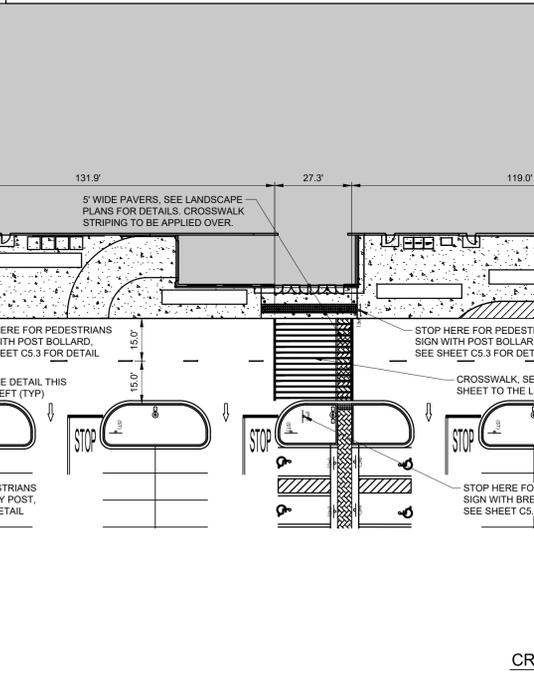
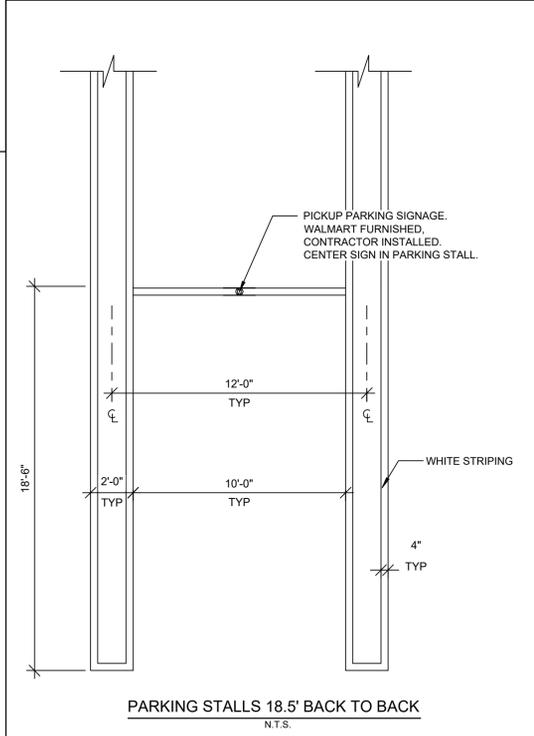
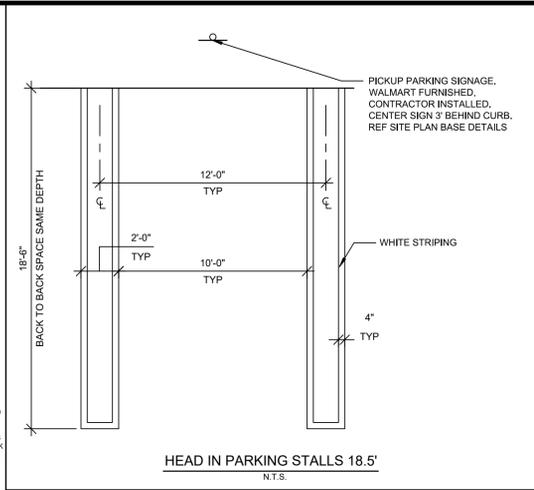
Sheet No.
C5.2



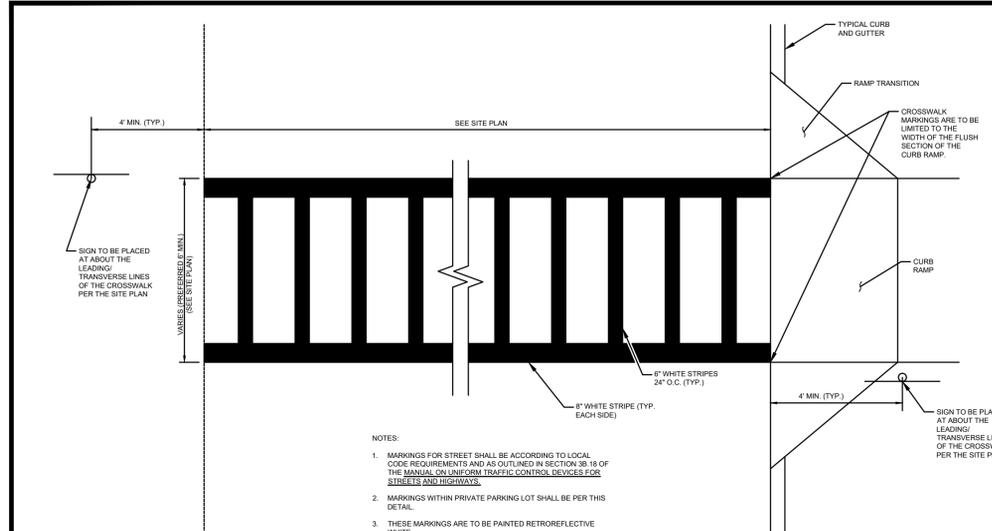
- KEYNOTE LEGEND**
- (A) *STOP HERE FOR PEDESTRIANS* SIGN, SEE SHEET C5.3 FOR DETAIL.
 - (B) SIGN MOUNTING AND BASE WITH BOLLARD, SEE SHEET C5.3 FOR DETAIL.
 - (C) SIGN MOUNTING AND BASE WITH BREAK AWAY POST, SEE SHEET C5.3 FOR DETAIL.
 - (D) CROSSWALK MARKINGS - 7.33' WIDE PER DETAIL ON THIS SHEET.
 - (E) PICKUP PARKING SPACE SIGNS "STALL DESIGNATION SIGN", "CALL IN SIGN" AND "LARGE LOGO SIGN", SEE SHEET C2.2 AND KEYNOTE G BELOW. 2 SIGNS FOR BACK TO BACK SPACES.
 - (F) PICKUP SPACE STRIPING, SEE SHEET DETAIL THIS SHEET.
 - (G) "PICKUP" PARKING SPOT DESIGNATION USED ON STALL SIGN (NOT MARKED ON PAVEMENT).
 - (H) ADA RAMP TYPE CR-E PER FDOT 522-002.
 - (I) STOP SIGN, STOP PAVEMENT MARKING AND STOP BAR, SEE SHEET C5.1 FOR DETAILS.
 - (J) DELIVERY VAN PARKING SPACE SIGN ATTACHED TO BUILDING WALL, SEE ARCH PLANS FOR DETAILS.
 - (K) LANE PAVEMENT MARKINGS, SEE SHEET C5.1 FOR DETAILS.



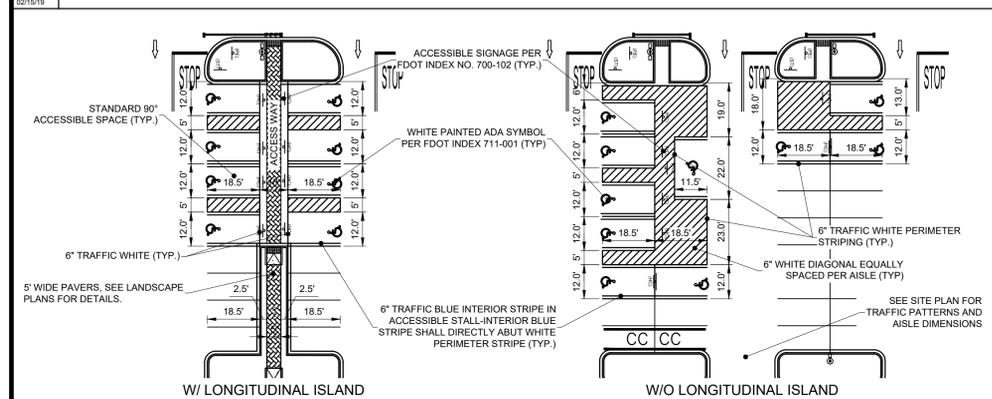
- NOTES:**
- SEE SITE PLAN FOR TOTAL LAY OUT.
 - THESE DETAILS ARE FOR REFERENCE AND DIMENSION CONTROL ONLY.
 - ALL DIMENSIONS ARE TO C/L OF STRIPE UNLESS OTHERWISE INDICATED.
 - ALL COLORS AS SHOWN OR SPECIFIED BY LOCAL CODES.
 - ACCESSIBLE SPACE STRIPING SHALL BE CONSTRUCTED PER FDOT INDEX NO. 711-001



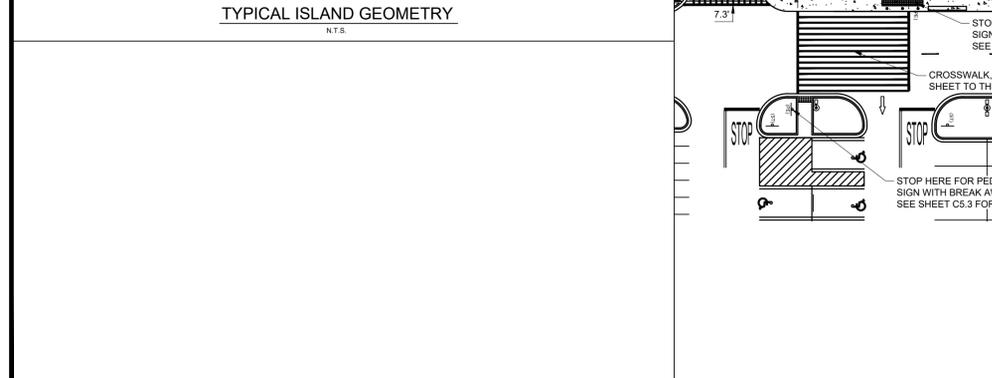
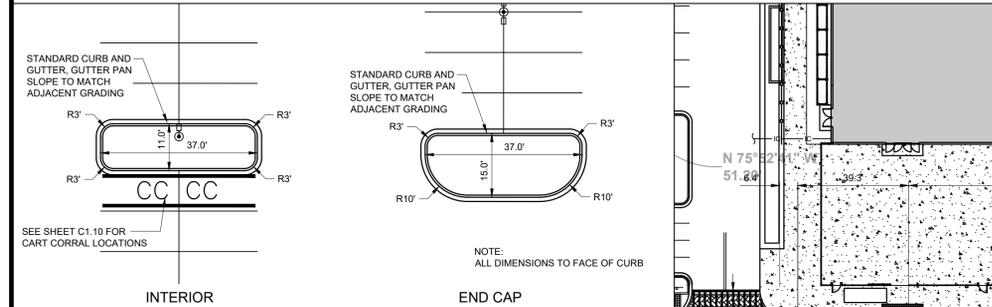
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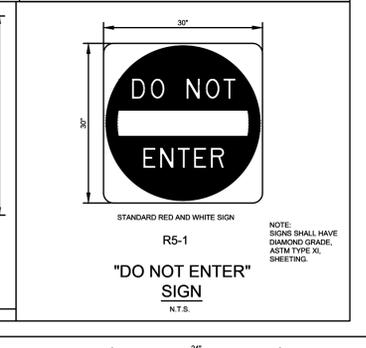
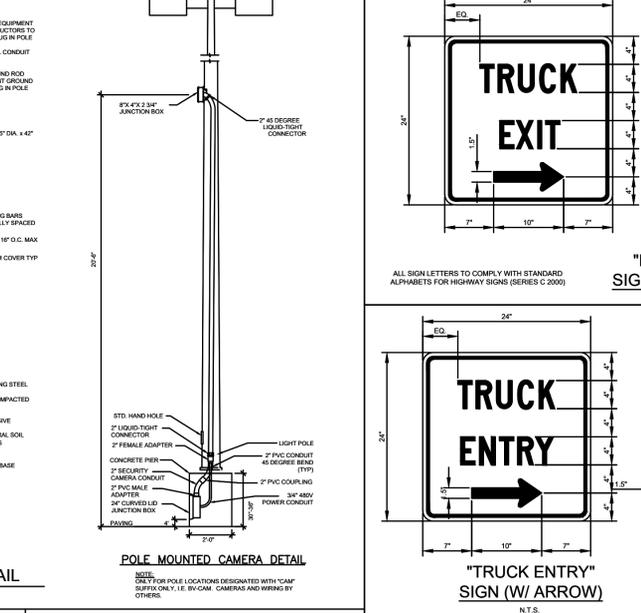
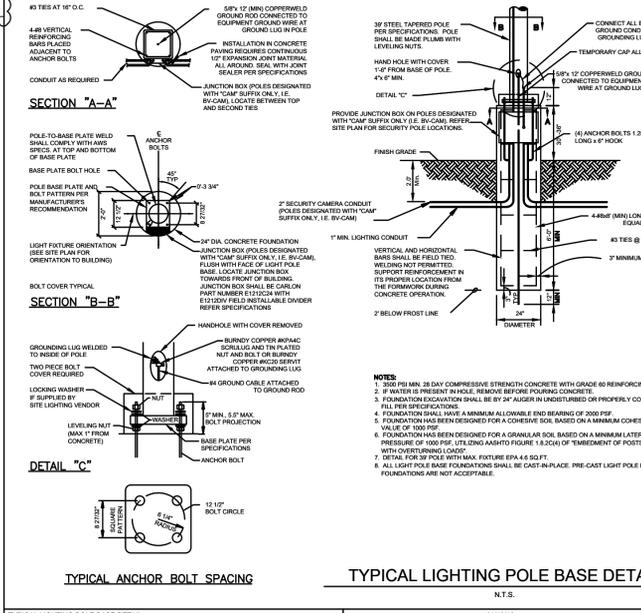
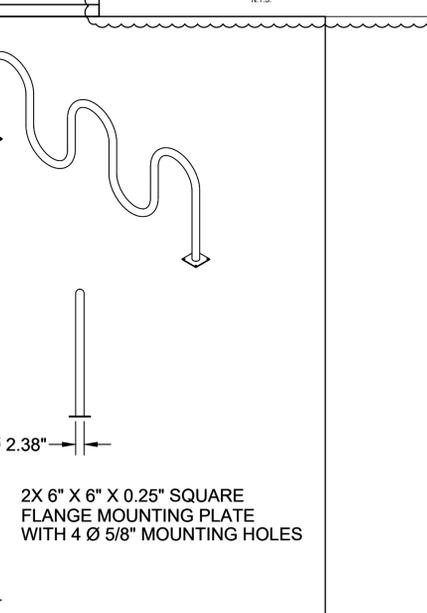
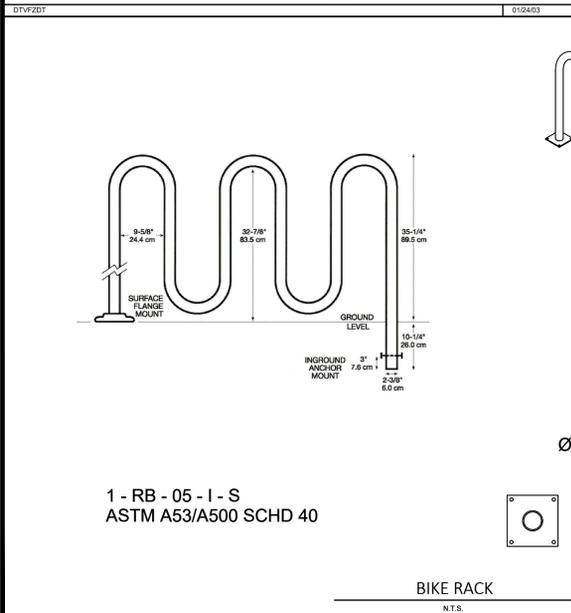
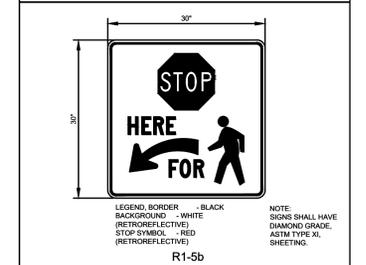
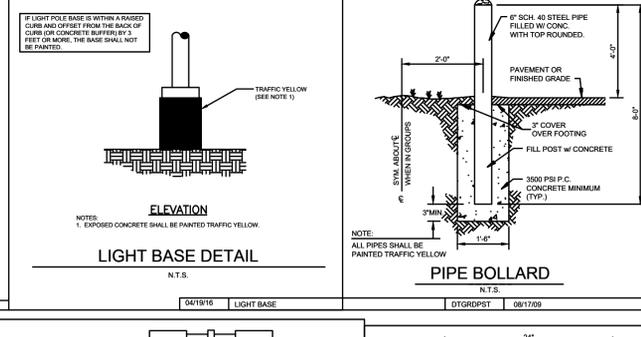
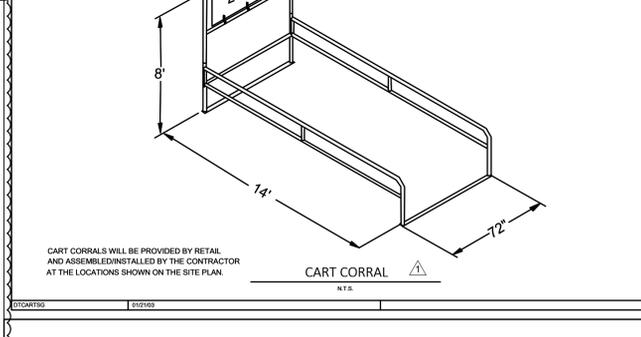
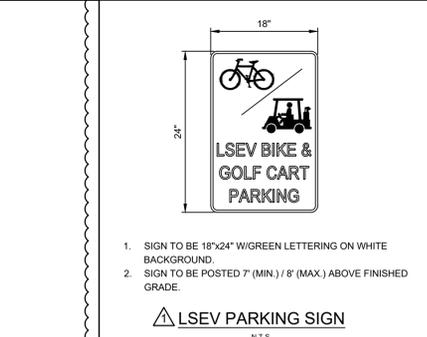
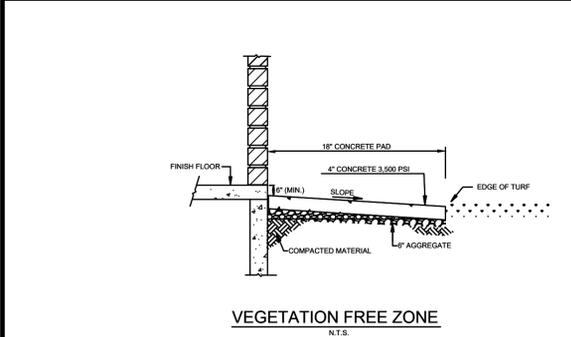
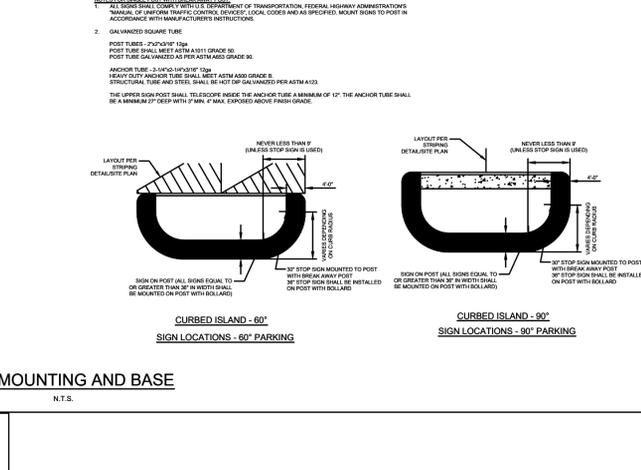
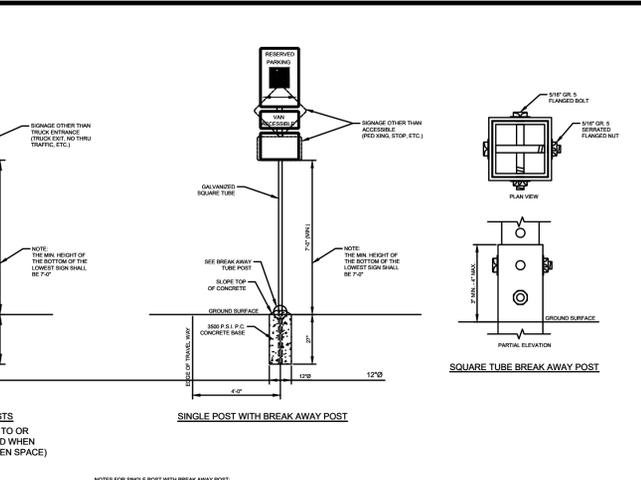
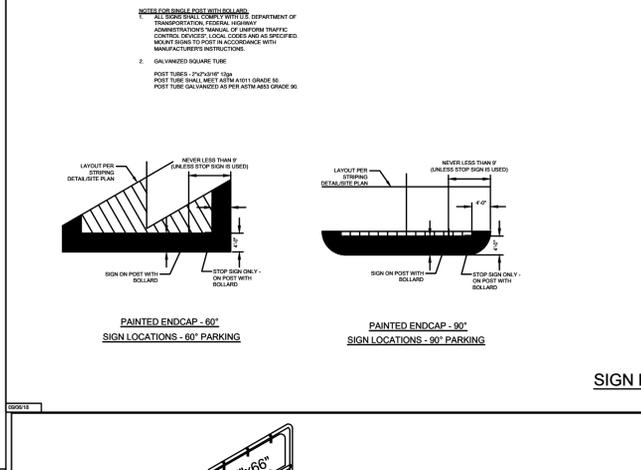
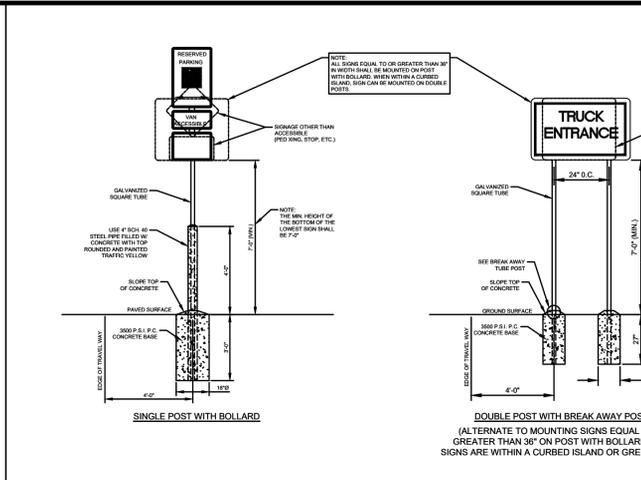
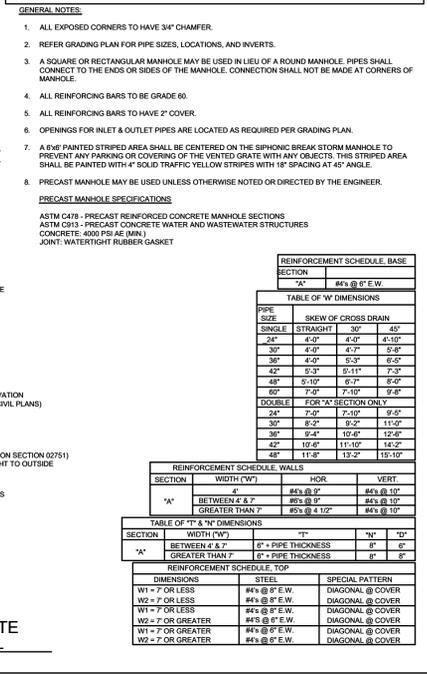
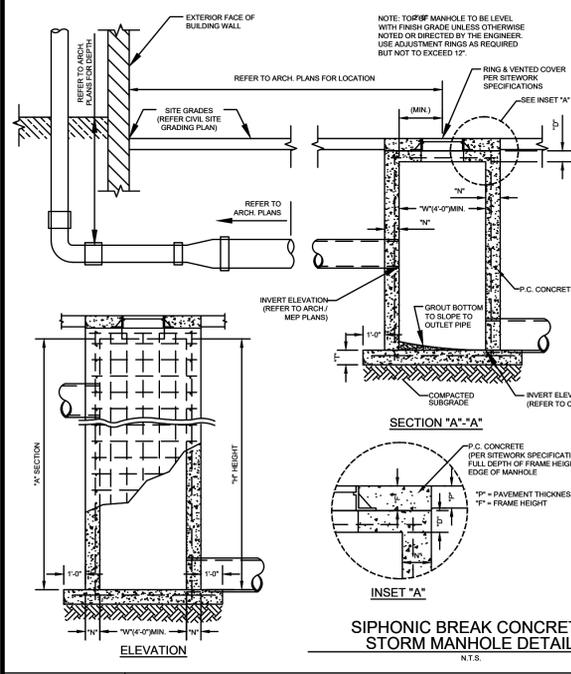
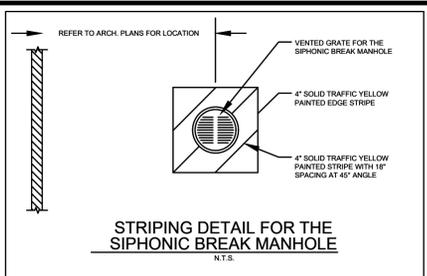
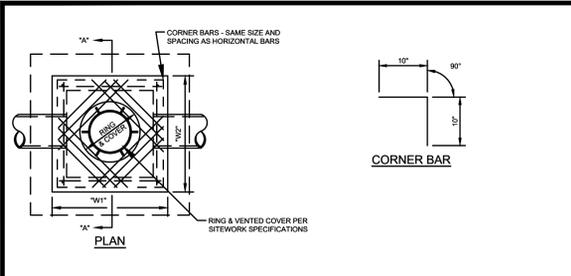
- NOTES:**
- MARKINGS FOR STREET SHALL BE ACCORDING TO LOCAL CODE REQUIREMENTS AND AS OUTLINED IN SECTION 9B.18 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
 - MARKINGS WITHIN PRIVATE PARKING LOT SHALL BE PER THIS DETAIL.
 - THESE MARKINGS ARE TO BE PAINTED RETROREFLECTIVE WHITE.



- NOTES:**
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 - THESE DETAILS ARE FOR REFERENCE AND DIMENSION CONTROL ONLY.
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LAKELAND, FL 33801
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Plans Prepared By:
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A Full Service A & E Firm

JOSHUA D. LOCKHART, P.E.
FL P.E. #74011

This item has been digitally signed and sealed by Joshua D. Lockhart, P.E. on the date adjacent to the seal. Signatures must be verified on any electronic copies.

02/02/26 PER DEVELOPER COMMENTS
Date
No.
Revision

Designed: M. LOMELI
Drawn: D. COLLAZO
Checked: J. LOCKHART
Job No.: W131372
Date: 01/2025 © 2026

GENERAL DETAILS
BIG BOX RETAIL AND FUEL STATION
WESTLAKE / PALM BEACH COUNTY / FLORIDA

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Sheet No.
C5.3

The magnitude of the differences between detailed analysis methods and field measurements varies. In general, differences of less than 20% can be expected, but in some cases, where a calculation method cannot handle the complexity of the lighting system, they may be greater. A more complete discussion of the uncertainties is available.

ANSI (IES) E-33-03
Lighting Science: Calculation of Light and its Effects

Provided for:
Linkon Bhattacharjee - CPH
Patric Kelly - Current

Provided By:
Application Solution Center
apps@currentlighting.com
1-828-393-3774

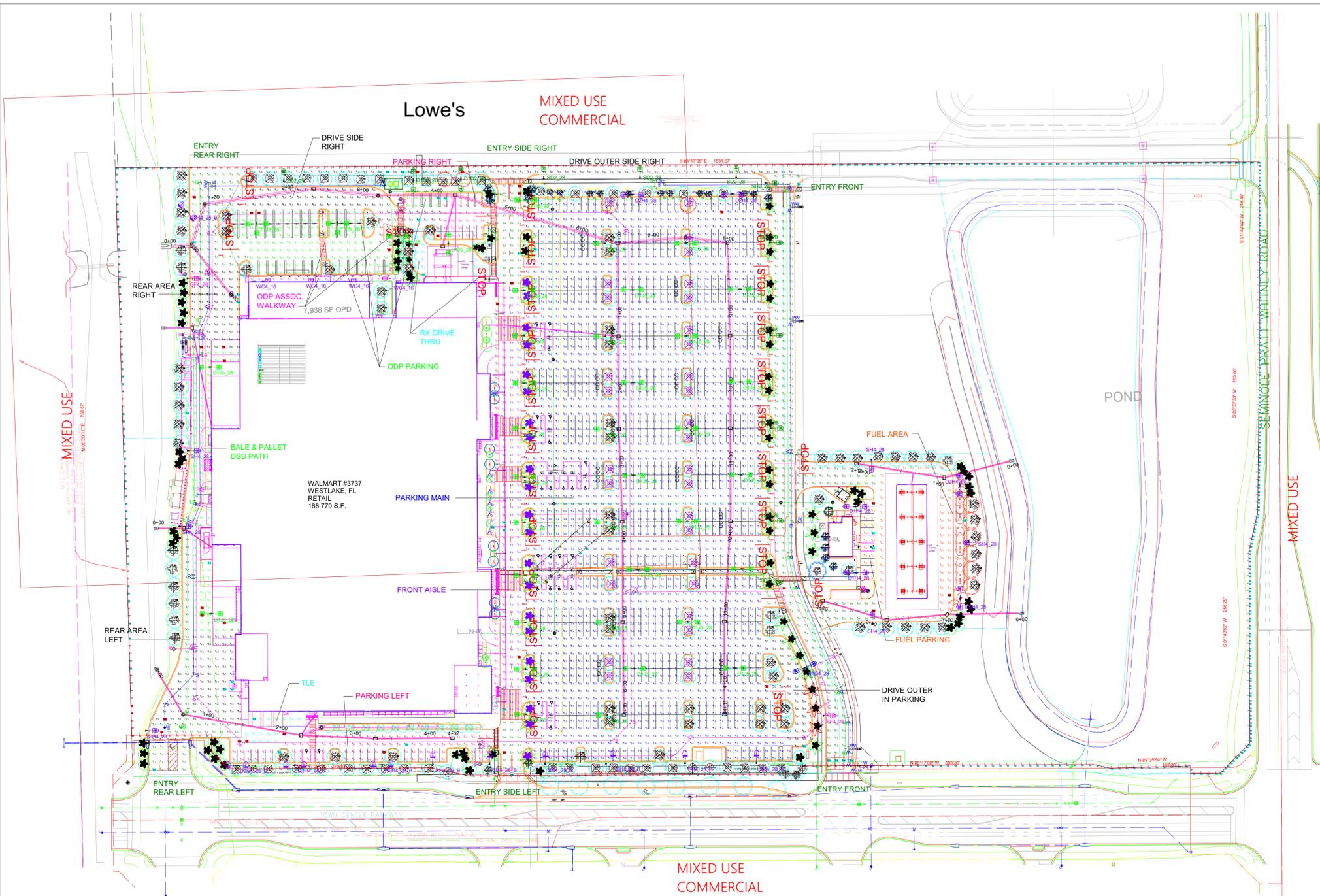
3010 Spartanburg Hwy.,
East Flat Rock, NC 28726

Designer: Debbie Johnson

Date: 2/3/2026

Drawing #: A242450F.AGI

WALMART SC #3737
WESTLAKE, FL
Evolve LED Area EALS04 5000K @ 28ft
Evolve LED Wall Pack EWAS 4000K at 16ft
Horizontal FC's at grade & vert at 5ft & 6ft
Values at 50000 hours
Per City Ordinance & Walmart Latest Spec



LED STATISTICS SHOWN ARE AT 50000 HOURS L83, L86 & L87 RATING (~12 YEARS @ 12 HRS/DAY)

L83 = OPERATING HOURS AT WHICH AN AVERAGE OF 7% OF INITIAL LUMENS HAVE BEEN LOST IN A TESTED POPULATION OF LED PLATFORMS. THE POPULATION STILL EMITS 93% OF INITIAL LUMENS. THE LUMINAIRE HAS NOT FAILED. IT IS STILL OPERATING WITH A REDUCED LIGHT OUTPUT.

L86 = OPERATING HOURS AT WHICH AN AVERAGE OF 4% OF INITIAL LUMENS HAVE BEEN LOST IN A TESTED POPULATION OF LED PLATFORMS. THE POPULATION STILL EMITS 96% OF INITIAL LUMENS. THE LUMINAIRE HAS NOT FAILED. IT IS STILL OPERATING WITH A REDUCED LIGHT OUTPUT.

L87 = OPERATING HOURS AT WHICH AN AVERAGE OF 3% OF INITIAL LUMENS HAVE BEEN LOST IN A TESTED POPULATION OF LED PLATFORMS. THE POPULATION STILL EMITS 97% OF INITIAL LUMENS. THE LUMINAIRE HAS NOT FAILED. IT IS STILL OPERATING WITH A REDUCED LIGHT OUTPUT.

IN COMPARISON, NON-LED LUMINAIRES ARE RATED WITH MEAN LUMENS MEASURED AT 40-50% OF RATED LIFE, DEPENDING ON TECHNOLOGY, AND RATED LIFE OF B50, WHERE B50 = OPERATING HOURS AT WHICH 50% OF A TESTED POPULATION OF LAMPS HAVE FAILED.

Notes:
New acad site plan W131372 - Westlake - Base on 1-23-26 not bound & no landscape included.
Previous landscape shown here.

City ordinance applied: 28ft mounting height poles, full cutoff, 0.95 LLF max, Parking 12fc max, 1fc min and 12 max/min, Spill Residential or ROW adjacent 0.33fc max Horz. and 6ft Vertical, otherwise other areas 3fc max spill.

No residential areas adjacent to this site.

This calculation includes trees modeled as approved Walmart objects at 10yr mature size average provided.

Trees require more poles & fixtures to get light around all the clustered trees and can have an adverse effect on uniformity.

Walmart latest spec applied beyond City ordinance noted above.

City spill shown Horz (black) and 6ft Vert. (red) shown as pt x pt here.

Property line on right goes down the center of a drive lane lighted area and will always exceed the spill limits to have safe lighting.

Shielded fixtures on roadway side of property to reduce spill in roadway.

Showing wall packs in ODP & RX required for Assoc walkway and this requires coordination of the architectural building plans & civil lighting plan throughout design completion of OTB and the construction documents.

Calculation Summary Illuminance Foot-candles						
Label	Avg	Max	Min	Avg/Min	Max/Min	# Pts
5ft Vert Spill Propline Front	0.00	0.0	0.0	N.A.	N.A.	84
5ft Vert Spill Propline Left	0.43	4.5	0.0	N.A.	N.A.	151
5ft Vert Spill Propline Rear	0.08	0.7	0.0	N.A.	N.A.	76
5ft Vert Spill Propline Right	1.26	4.9	0.0	N.A.	N.A.	154
City 6ft Vert Spill PL Front	0.00	0.0	0.0	N.A.	N.A.	84
City 6ft Vert Spill PL Left	0.36	2.9	0.0	N.A.	N.A.	148
City 6ft Vert Spill PL Rear	0.07	0.6	0.0	N.A.	N.A.	76
City 6ft Vert Spill PL Right	1.23	4.9	0.0	N.A.	N.A.	154
City Horz Spill PL All	0.68	4.6	0.0	N.A.	N.A.	461
5ft Vert Parking IN	2.21	4.5	1.3	1.70	3.46	11
5ft Vert Parking OUT	1.13	2.6	0.4	2.83	6.50	10
Bale & Pallet DSD Path	3.10	5.5	1.4	2.21	3.93	138
Drive Outer In Parking	1.61	2.7	0.5	3.22	5.40	50
Drive Outer Right Side	2.89	6.1	0.8	3.61	7.63	74
Drive Side Right	4.28	7.5	1.6	2.68	4.69	86
Entry Front	2.39	5.5	0.4	5.98	13.75	342
Entry Rear Left	2.00	4.2	0.7	2.86	6.00	51
Entry Rear Right	3.66	7.4	1.2	3.05	6.17	76
Entry Side Left	3.05	5.1	0.8	3.81	6.38	29
Entry Side Right	3.78	5.8	1.7	2.22	3.41	49
Front Aisle	4.84	7.2	3.0	1.61	2.40	171
Front Sidewalk	2.96	3.7	2.3	1.29	1.61	57
Fuel Area	3.99	8.6	1.8	2.22	4.78	101
Fuel Parking	4.24	5.3	3.1	1.37	1.71	22
ODP Assoc Walkway	4.42	8.3	2.0	2.21	4.15	40
ODP Parking	5.60	9.5	2.5	2.24	3.80	170
Parking Left	3.81	8.1	1.2	3.18	6.75	110
Parking Main	3.78	7.7	1.0	3.78	7.70	2227
Parking Right	3.55	6.2	1.9	1.87	3.26	38
Rear Area Left	1.32	3.4	0.3	4.40	11.33	120
Rear Area Right	1.92	3.5	0.6	3.20	5.83	77
RX Drive Thru	3.38	6.8	1.7	1.99	4.00	22
TLE Area	2.80	4.3	1.3	2.15	3.31	30

Current Luminaire Schedule									
Symbol	Qty	Label	Arrangement	LLF	Description	Arr. Watts	Arr. Lum. Lumens	BUG Rating	Lum. Watts
[Symbol]	2	D1D2_28	Back-Back	0.873	2-EALS04SD2AN750NDD1BLCKF 25ft pole on 3ft base	126	21900	B2-U0-G2	63
[Symbol]	1	D1D4_28	Back-Back	0.873	2-EALS04SD4AF750NDD1BLCKF 25ft pole on 3ft base	126	20600	B2-U0-G2	63
[Symbol]	2	D1H4_28	Back-Back	0.864	2-EALS04SH4AF750NDD1BLCKF 25ft pole on 3ft base	246	41202	B3-U0-G3	123
[Symbol]	25	D1J5_28	Back-Back	0.864	2-EALS04SJ5SM750NDD1BLCKF 25ft pole on 3ft base	312	51498	B5-U0-G3	156
[Symbol]	4	D2H4_28	ROTATED OPTICS	0.864	1-EALS04SH4AF750NDD1BLCKFS1 & 1-EALS04SH4AF750NDD1BLCKFS2 25ft pole on 3ft base	246	41202	B3-U0-G3	123
[Symbol]	4	D2H4_28_B	ROTATED OPTICS	0.864	1-EALS04SH4AF750NDD1BLCKFS1 & 1-EALS04SH4AF750NDD1BLCKFS2 w/ 2- ELS-EAL-FBL-BLCK 25ft pole on 3ft base	246	38000	B2-U0-G3	123
[Symbol]	10	SD2_28	Single	0.873	1-EALS04SD2AN750NDD1BLCKF 25ft pole on 3ft base	63	10900	B2-U0-G2	63
[Symbol]	2	SF4_28	SINGLE	0.873	1-EALS04SF4AF750NDD1BLCKF 25ft pole on 3ft base	96	15450	B3-U0-G3	96
[Symbol]	6	SH4_28	SINGLE	0.864	1-EALS04SH4AF750NDD1BLCKF 25ft pole on 3ft base	123	20601	B3-U0-G3	123
[Symbol]	6	SH4_28_B	Single	0.864	1-EALS04SH4AF750NDD1BLCKF w/ 1- ELS-EAL-FBL-BLCK 25ft pole on 3ft base	123	19000	B2-U0-G3	123
[Symbol]	11	SJ5_28	Single	0.864	1-EALS04SJ5SM750NDD1BLCKF 25ft pole on 3ft base	156	25749	B5-U0-G3	156
[Symbol]	2	T1J5_28	3 @ 90 Degrees	0.864	3-EALS04SJ5SM750NDD1BLCKF 25ft pole on 3ft base	468	77247	B5-U0-G3	156
[Symbol]	4	WC4_16	Single	0.837	1-EWAS010C4AF740N1FMBLCK mounted at 16ft	56	7500	B1-U0-G2	56