RECEIVED
By puglias at 9:19 am, Sep 25, 2025

PRIME SQUARE DORAL

PAVING AND DRAINAGE PLANS

City of Doral, Miami-Dade County, Florida

NOTE: ALL IMPROVEMENTS SHOWN ARE EXISTING UNLESS OTHERWISE NOTED.

LEGEND:

EXISTING

CATCH BASIN	SANITARY SEWER MAIN	CONC. CURB
STORM MANHOLE	WATER MAIN	CURB & GUTTER
SANITARY MANHOLE	STORM SEWER LINE	EXISTING IMPROVEMENTS
FIRE HYDRANT	BURIED COMMUNICATION	TRAFFIC SIGN
UTILITY VALVES	GAS MAIN	CONC. WHEEL STOP
WATER METER	UNDERGROUND ELECTRIC (PTL)	GROUND ELEVATION
TEL./ELEC. BOX	UNDERGROUND ELECTRIC	CHAIN LINK FENCE
WOOD POWER POLE	OVERHEAD WIRES	CONCRETE WALKWAYS
POWER POLE w/LUMINAIRE	CONC. POWER POLE	EXISTING TREES

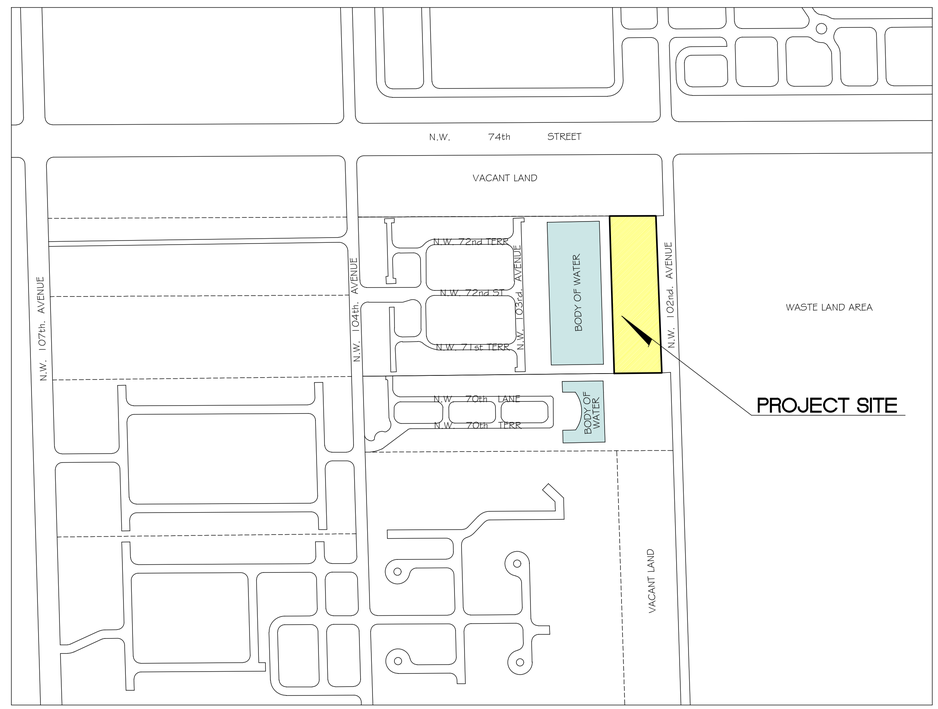
PROPOSED

CATCH BASIN	PROPOSED GRADE	LIGHT POLE (BY OTHERS)
STORM MANHOLE	FLOW DIRECTION ARROW	TYPE "D" CONC. CURB
SANITARY MANHOLE	STATION OFFSET, LT.=LEFT, RT.=RIGHT	SANITARY SEWER MAIN
RET./SED. TANK	CONCRETE DRIVEWAYS	WATER MAIN
OIL INTERCEPTOR TANK	ASPHALT PAVEMENT	STORM SEWER LINE
WATER VALVE	LANDSCAPE AREAS (SEE LANDSCAPE PLANS)	BURIED COMMUNICATION
FIRE HYDRANT		GAS MAIN
F.D.C.	PROPOSED TREES. FOR REFERENCE ONLY. REFER TO ARCHITECTURAL LANDSCAPE PLANS	UNDERGROUND ELECTRIC
FIRE HYDRANT LOCATION		

ABBREVIATIONS

℄ = CENTERLINE	℄ = PROPERTY LINE
R/W = RIGHT OF WAY LINE	(T) = THERMOPLASTIC
PROP. = PROPOSED	PERF. = PERFORATED
ELEV. = ELEVATION	C.AL. = CORRUGATED ALUMINUM
TYP. = TYPICAL	W.L. = WATER LINE
F.C.O. = FLUSH CLEAN OUT	CONC. = CONCRETE
EXIST. = EXISTING	M.H. = MANHOLE
INV. = INVERT	SL. = SLOPE
COND. = CONDENSATE	PRB = POLLUTANT RETARDANT BAFFLE
P.I.V. = POST INDICATOR VALVE	F.D.C. = FIRE DEPARTMENT CONNECTION
N.A.P. = NOT A PART OF THESE PLANS	C.B. = CATCH BASIN

ALL ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD)



LOCATION SKETCH
SECT. 17, TWP. 53s., RNG. 40e.
SCALE: 1"=300'

LEGAL DESCRIPTION:

THAT PORTION OF TRACTS 18 AND 19, OF "FLORIDA FRUIT LANDS COMPANY'S SUBDIVISION NO.1", IN SECTION 17, TOWNSHIP 53 SOUTH, RANGE 40 EAST, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 2, PAGE 17, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA, LYING WITHIN THE WEST 215 FEET OF THE EAST 250 FEET IF THE NORTHWEST 1/4 OF SECTION 17.

NOTES:

ELEVATIONS AS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929, AS PER MIAMI-DADE COUNTY'S BENCHMARK NUMBER M-120, ELEVATION 10.04 FEET.

THIS PROPERTY IS TO BE LOCATED IN FLOOD ZONE "X", AS PER FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), COMMUNITY NUMBER 120041 (CITY OF DORAL), MAP PANEL NO. 12086C0278, SUFFIX L, MAP REVISED DATE: SEPTEMBER 11, 2009.

FLOOD LEGEND
Commercial, Industrial

FOLIO: 35-3017-001-0180 & 35-3017-001-0190 ADDRESS: N.W. 74th STREET, N.W. 102nd AVENUE
LOT: 18 & 19 BLOCK: ____ SUBDIVISION: FLORIDA FRUIT LANDS COMPANY'S SUBDIVISION NO. 1
PLAT BOOK: 2 PAGE: 17 MEETS & BOUND: ____

CROWN OF ROAD ELEV.: +9.78± FT.NGVD. CROWN OF ROAD ELEVATION WAS TAKEN FROM

A CERTIFIED SURVEY PREPARED BY: ABRAHAM HADAD (SURVEYOR'S NAME) PLS LIC.#: 6006

DRAINAGE PLANS SHALL BE ATTACHED (FOR ACRES IMPERVIOUS PLANS SHALL BE STAMPED WITH THE DERM/WATER CONTROL SECTION APPROVAL)

DERM/WC – SURFACE WATER MANAGEMENT STORMWATER PERMIT (COPY ATTACHED) ____

SFWMD – ENVIRONMENTAL RESOURCES PERMIT (COPY ATTACHED) ____

TOTAL IMPERVIOUS AREA: ____ UNDERGROUND PARKING: YES/(NO) (CIRCLE ONE) - IF YES, FLOODPROOFING PLANS AND CERTIFICATE SHALL BE ATTACHED
BASEMENT: YES/(NO) (CIRCLE ONE)

HAVE THIS SITE OR OTHER PORTIONS OF THIS PROPERTY BEEN GRANTED A CLOMR OR ____

FINAL LOMR? (CIRCLE ONE) YES LOMR#: ____ (NO)

	Lowest Floor Elevation (including basement/garage areas)	Adjacent Grade Elevation (next to the wall of the structure)	Catch Basin Elevation
PROPOSED	FT. NGVD	FT. NGVD	FT. NGVD
	+11.50 NGVD	+11.50 NGVD	+5.10 NGVD

SHEET INDEX

SHEET No.	TITLE
C-01	COVER SHEET
C-02	NOTES AND SPECIFICATIONS
C-03	SEDIMENT AND EROSION CONTROL PLAN
C-04	PAVING AND GEOMETRY PLAN
C-05	DRAINAGE PLAN
C-05A	UTILITIES COORDINATION PLAN
C-05B	GRADING PLAN
C-06	SIGNING AND MARKING PLAN
C-07	SEDIMENT AND EROSION CONTROL DETAILS
C-08	TYPICAL SECTIONS AND PAVING DETAILS
C-09	DRAINAGE DETAIL PLAN
C-10	ADS STORMTECH MC-3500 DETAILS
C-11	ADS STORMTECH MC-3500 DETAILS

Sunshine811
Call 811 or visit sunshine811.com two full business days before digging to have buried facilities located and marked.
Check positive response codes before you dig!

Rodrigo Bermudez
Digitally signed by Rodrigo Bermudez
Date: 2025.09.23 15:52:34 -04'00'

This item has been digitally signed and sealed by Rodrigo Bermudez, PE on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

RODRIGO BERMUDEZ LICENSE No. 98720 STATE OF FLORIDA PROFESSIONAL ENGINEER

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No.	Date	Revision Description
A	07/29/2025	CUT & FILL APPLICATION SET
B	07/29/2025	REVISED PER COMMENTS FROM CITY OF DORAL
C	09/23/2025	REVISED PER COMMENTS FROM CITY OF DORAL

FORTIN, LEAVY, SKILES, INC.
CONSULTING ENGINEERS, SURVEYORS & MAPPERS
FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 00003653
180 Northeast 168th. Street / North Miami Beach, Florida. 33162
Phone: 305-653-4493 / Email fls@flssurvey.com

COVER SHEET
PAVING AND DRAINAGE SET

PRIME SQUARE DORAL
DORAL, FL 33178

Job. No. 247005	Dwg. No. 3024-025	Date 11/22/2024
Cad. No. 240595CP	Scale 1" = 300'	Sheet C-01
Ref. Dwg. S.B.O.	Drawn By. RB	1 of 13

I. APPLICABLE CODES:

A. GENERAL:

EXCEPT AS PARTICULARLY NOTED ON THE PLANS, ALL PROPOSED CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF CITY OF DORAL, THE MIAMI-DADE COUNTY PUBLIC WORKS MANUAL, THE FLORIDA BUILDING CODE, AND THE AMERICANS WITH DISABILITIES ACT (ADA), 2010 STANDARDS. IF ANY ITEM OF WORK IS NOT COVERED IN EITHER OF THOSE SPECIFICATIONS, IT SHALL BE CONSTRUCTED PER THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

B. CONSTRUCTION SAFETY:

1. ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER, SPECIFICALLY, THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.) AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) SHALL BE STRICTLY OBSERVED.

2. CONTRACTOR PERFORMING UNDERGROUND WORK SHALL COMPLY WITH ANY AND ALL REQUIREMENTS OF CHAPTER 556, FLORIDA STATUTES AND THE "UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT".

C. TRENCH SAFETY ACT:

1. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLIANCE WITH THE STATE OF FLORIDA "TRENCH SAFETY ACT", AND ALL REQUIREMENTS OF O.S.H.A..

2. WHERE EXCAVATIONS TO A DEPTH IN EXCESS OF FIVE FEET (5.0') ARE REQUIRED, THE CONTRACTOR SHALL INCLUDE THE FOLLOWING INFORMATION IN THE BID.

   a. A REFERENCE TO THE SAFETY STANDARDS THAT WILL BE IN EFFECT DURING THE PERIOD OF CONSTRUCTION OF THE PROJECT.

   b. WRITTEN ASSURANCES BY THE CONTRACTOR PERFORMING THE TRENCH EXCAVATION THAT SUCH CONTRACTOR WILL COMPLY WITH THE APPLICABLE TRENCH SAFETY STANDARDS.

   c. A SEPARATE ITEM IDENTIFYING THE COST OF COMPLIANCE WITH THE APPLICABLE TRENCH SAFETY STANDARDS.

3. WHERE A BID IS NOT SUBMITTED, THE CONTRACTOR SHALL SUBMIT THE INFORMATION LISTED IN ITEM 2, TO THE ENGINEER PRIOR TO STARTING WORK.

D. SURVEY DATA:

1. ALL CONSTRUCTION STAKEOUT SHALL BE PERFORMED UNDER THE SUPERVISION OF A FLORIDA REGISTERED SURVEYOR.

2. THE APPROXIMATE LOCATION OF ALL EXISTING UTILITIES SHOWN HEREON WERE DETERMINED FROM AVAILABLE "AS-BUILT" PLANS AND/OR FIELD LOCATION OF VISIBLE IMPROVEMENTS. SOME EXISTING UTILITIES MIGHT NOT BE SHOWN DUE TO THE LACK OF RECORDS AND/OR INACCESSIBILITY AND IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THEIR LOCATION PRIOR TO CONSTRUCTION.

3. THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER IF ANY ADDITIONAL DIMENSIONS OR SPECIFICATION ARE NEEDED TO LAYOUT OR CONSTRUCT THE PROJECT. UPON REQUEST, AN ELECTRONIC FILE OR GEOMETRIC CONTROL SHEET WILL BE PROVIDED TO THE CONTRACTOR BY THE ENGINEER OF RECORD.

II. PRECONSTRUCTION RESPONSIBILITY:

A. UPON RECEIPT OF NOTICE OF AWARD, THE CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION CONFERENCE TO INCLUDE THE APPROPRIATE PERMITTING AGENCIES, THE OWNER, AND THE ENGINEER OF RECORD, AFTER OBTAINING A CONSTRUCTION PERMIT FROM THE APPROPRIATE PERMITTING AGENCY.

B. THE CONTRACTOR SHALL OBTAIN A "SUNSHINE CERTIFICATION NUMBER" AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION.

C. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, ELEVATION, MATERIAL, AND CONDITION OF ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION.

D. IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD.

E. CONTRACTOR SHALL UNCOVER ALL UNDERGROUND UTILITIES IN THE PATH OF THE WORK, WHETHER OR NOT THE UTILITIES ARE SHOWN ON THE PLANS, AND TAKE VERTICAL AND HORIZONTAL MEASUREMENTS OF THE LOCATION OF THESE UTILITIES, AND IF ANY CONFLICTS ARE APPARENT APPARENT REPORT THE MEASUREMENTS TO THE ENGINEER OF RECORD.

F. CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD TO RESOLVE CONFLICTS BETWEEN DESIGN AND EXISTING FEATURES.

G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING UTILITIES FOR WHICH HE FAILS TO REQUEST LOCATIONS SUNSHINE CERTIFICATION NUMBER. HE IS RESPONSIBLE AS WELL FOR DAMAGE TO ANY EXISTING UTILITIES WHICH ARE PROPERLY LOCATED.

H. ALL EXISTING IMPROVEMENTS THAT ARE TO BE DEMOLISHED MUST BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.

I. CONTRACTOR SHALL COORDINATE SEQUENCE OF UTILITY CONSTRUCTION TO PREVENT UNDERMINING THE EXISTING AND PROPOSED BUILDING FOUNDATIONS.

III. SHOP DRAWING NOTES:

A. SHOP DRAWINGS SHALL BE CHECKED AND APPROVED FIRST BY THE CONTRACTOR AND THEN ONE COPY SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO THE PURCHASE OR INSTALLATION OF ANY SYSTEM COMPONENTS.

B. ANY SYSTEM COMPONENT THAT IS ADDED DURING CONSTRUCTION MUST BE APPROVED IN ADVANCE BY THE ENGINEER OF RECORD. SUCH APPROVAL REQUIRES THE SUBMISSION OF A SHOP DRAWING (ONE COPY ONLY) FOR EACH SYSTEM COMPONENT. SHOP DRAWINGS WILL ALSO BE REQUIRED FOR ALL NON-STANDARD ITEMS.

C. INDIVIDUAL SHOP DRAWINGS FOR ALL PRECAST CONCRETE STRUCTURES ARE REQUIRED. CATALOGUE LITERATURE WILL NOT BE ACCEPTED FOR PRECAST STRUCTURES.

IV. TEMPORARY FACILITIES:

A. TEMPORARY UTILITIES:

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES AND FPL ELECTRICITY TO HIS EMPLOYEE AND SUBCONTRACTORS FOR THEIR USE DURING CONSTRUCTION.

2. OBTAIN CONSTRUCTION METER FOR ALL WATER USED ON JOB. ALL WATER USED FOR CLEANING, TESTING, ETC. WILL BE PAID FOR BY THE CONTRACTOR. IF WATER CAN NOT BE METERED THEN IT WILL BE CALCULATED.

B. TRAFFIC REGULATION:

1. MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE M.U.T.C.D. AND F.D.O.T.

2. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.

3. NO TRENCHES OR HOLES NEAR WALKWAYS OR IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT EXPRESS PERMISSION OF THE PERMITTING AGENCIES.

V. PROJECT CLOSE OUT:

A. GENERAL:

1. CERTIFICATION OF COMPLETION OF PROJECT IN ACCORDANCE WITH PLANS AND SPECIFICATIONS WILL "NOT" BE ISSUED BY THE ENGINEER OF RECORD TO THE APPROPRIATE APPROVAL AND PERMITTING AGENCIES UNTIL ALL THE REQUIREMENTS DESCRIBED HEREIN HAVE BEEN MET.

B. CLEANING UP:

1. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER. UPON FINAL CLEAN UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEPT BROOM CLEAN.

2. THE CONTRACTOR SHALL RESTORE OR REPLACE ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS WORK, EQUIPMENT, EMPLOYEES OR THOSE OF HIS SUBCONTRACTORS TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS. TO THIS END, THE CONTRACTOR SHALL DO AS REQUIRED, ALL NECESSARY HIGHWAY OR DRIVEWAY, SIDEWALK AND LANDSCAPING WORK. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION.

3. WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR BEEN PLACED IN DRAINS, WATER COURSES, DITCHES, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION.

4. WHEN WORKING IN AND AROUND EXISTING DRAINAGE CANALS, APPROPRIATE SILT BARRIERS SHALL BE INSTALLED AS REQUIRED BY THE APPROPRIATE PERMITTING AGENCIES.

C. PROJECT RECORD DOCUMENTS:

1. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE ENGINEER OF RECORD WITH A SET OF FINAL "AS-BUILT" DRAWINGS, SIGNED AND SEALED BY A STATE OF FLORIDA LICENSED SURVEYOR, FOR ENGINEER'S REVIEW AND FILE.

2. THE CONTRACTOR SHALL MAINTAIN ACCURATE AND COMPLETE RECORDS OF ALL WORK ITEMS COMPLETED.

3. ALL "AS-BUILT" INFORMATION SUBMITTED TO THE ENGINEER SHALL BE SUFFICIENTLY ACCURATE, CLEAR AND LEGIBLE TO SATISFY THE ENGINEER OF RECORD THAT THE INFORMATION PROVIDES A TRUE REPRESENTATION OF THE IMPROVEMENTS CONSTRUCTED.

4. PRIOR TO PLACEMENT OF ANY ASPHALT OR CONCRETE PAVEMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD "AS-BUILT" PLANS SHOWING LIMEROCK BASE GRADES AND ALL DRAINAGE, WATER, AND SEWER IMPROVEMENTS. PAVING OPERATIONS SHALL NOT COMMENCE UNTIL THE ENGINEER OF RECORD AND THE APPROPRIATE PERMITTING AGENCIES AGENCIES HAVE REVIEWED AND APPROVED THE "AS-BUILTS".

5. ALL REQUIRED DENSITY AND L.B.R. TEST RESULTS FOR SUBGRADE SHALL BE PROVIDED TO AND APPROVED BY THE ENGINEER OF RECORD AND THE PERMITTING AGENCIES PRIOR TO PLACING THE LIMEROCK BASE MATERIAL.

6. ALL REQUIRED DENSITY AND L.B.R. TEST RESULTS FOR LIMEROCK SHALL BE PROVIDED TO AND APPROVED BY THE ENGINEER OF RECORD AND THE PERMITTING AGENCIES PRIOR TO PLACING ASPHALT.

VI. EARTHWORK AND COMPACTION NOTES:

A. GENERAL:

1. QUALITY, CONTROL TESTING FOR STABILIZATION, BASE, PAVEMENT, COMPACTION, AND MATERIALS SHALL BE IN ACCORDANCE WITH FLORIDA D.O.T. REQUIREMENTS, AND SHALL BE ARRANGED FOR AND PAID FOR BY THE CONTRACTOR. COPIES OF ALL TEST REPORTS SHALL BE PROVIDED TO THE ENGINEER OF RECORD AS THEY ARE RECEIVED.

2. EXISTING ON-SITE BASE MATERIAL SHALL NOT BE REUSED FOR BASE CONSTRUCTION, BUT MAY BE USED FOR BACKFILL AROUND UTILITY AND DRAINAGE LINES, AND FOR SUBGRADE CONSTRUCTION, AND FOR GENERAL FILL IF NECESSARY.

3. ALL SUBGRADE UNDER PAVED AREAS SHALL HAVE A MINIMUM L.B.R. VALUE OF 40 AND SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.

4. ALL SUBGRADE UNDER SIDEWALK AREAS SHALL HAVE A MINIMUM OF 12" COMPACTED SUBGRADE TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.

5. ALL FILL MATERIAL IN AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 90% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.

6. A 2" BLANKET OF TOP SOIL SHALL BE PLACED OVER ALL AREAS TO BE SODDED.

7. WHEN WORKING IN AND AROUND EXISTING DRAINAGE CANALS OR LAKES, APPROPRIATE SILT BARRIERS SHALL BE INSTALLED.

8. NO MUCK BLANKET IS TO BE PLACED ON THE BOTTOM OF RETENTION AREAS OR SWALES.

B. ON-SITE:

1. ALL ORGANIC AND OTHER UNSUITABLE MATERIAL WITHIN THREE (3) FEET (HORIZONTAL AND AREAS TO BE PAVED SHALL BE REMOVED.

2. SUITABLE BACKFILL SHALL BE MINIMUM L.B.R. 40 MATERIAL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 FOR THREE (3) FEET BEYOND THE PERIMETER OF THE PAVING.

VII. STORM DRAINAGE NOTES:

A. GENERAL:

1. EXISTING STORM DRAINAGE GRATES AND FRAMES AND MANHOLE COVERS AND RINGS THAT ARE TO BE REMOVED OR ADJUSTED, MAY BE REUSED ON THE SITE.

2. THE EXISTING DRAINAGE SYSTEM SHALL BE CLEANED AND/OR GRADED TO ENSURE PROPER FLOW AND FUNCTION.

3. THE CONTRACTOR SHALL INSTALL FILTER CLOTH AT ALL CATCH BASIN GRATES ADJACENT TO THE AREA OF CONSTRUCTION UNTIL FINAL ACCEPTANCE OF THE IMPROVEMENTS.

B. CONTRACTOR MAY UTILIZE ONE OF THE FOLLOWING MATERIALS, UNLESS OTHERWISE NOTED ON THE PLANS.

1. HIGH DENSITY POLYETHYLENE PIPE (H.D.P.E.)

   a. PIPE SHALL BE CORRUGATED SMOOTH BORE POLYETHYLENE PIPE (N-12 PRO LINK ULTRA) OR APPROVED EQUAL, MANUFACTURED IN CONFORMANCE WITH ASTM M294.

   b. PIPE SHALL HAVE BUILT-IN BELL JOINT WITH RUBBER GASKET IN CONFORMANCE WITH ASTM F477.

   c. PIPE COUPLING BANDS IF NEEDED SHALL BE SPLIT/SPLIT PREMIUM REQUIRING MAXIMUM PULL-APART RESISTANT.

2. CORRUGATED ALUMINUM PIPE (CAP):

   a. ALUMINUM PIPE SHALL CONFORM TO AASHTO M196 FOR CIRCULAR CORRUGATED PIPE OF AASHTO M211 FOR HELICALLY CORRUGATED PIPE, AND SECTION 945, AS PER FDOT STANDARD SPECIFICATIONS.

   b. MAKE FIELD JOINTS IN (CAP) WITH BANDS FABRICATED OF THE SAME ALLOY AS THE CULVERT PIPE AND CONFORMING TO THE REQUIREMENTS OF AASHTO M196.

   c. GASKET THE BANDED JOINTS WITH A NEOPRENE GASKET OF THE DESIGN INDICATED TO SECURE A SOIL-TIGHT OR WATERTIGHT JOINT.

3. POLYVINYL CHLORIDE PIPE (PVC):

   a. PLASTIC PIPE SHALL CONFORM WITH ASTM D 3034, TYPE PSM, POLYVINYL CHOLORIDE (PVC) MATERIAL; BELL AND SPIGOT STYLE SOLVENT SEALED END JOINTS.

   b. CONTRACTOR TO USE PVC SDR 26 FOR INSTALLATION UP TO 13 FEET DEEP FROM FINISH GRADE.

   c. CONTRACTOR TO USE PVC C900 FOR INSTALLATION AT 13 FEET OR DEEPER FROM FINISH GRADE.

C. MISCELLANEOUS:

1. TRENCH RESTORATION SHALL BE IN ACCORDANCE TO FDOT INDEX 125-001 FY 2022-23.

2. BACKFILL MATERIAL UNDER AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 90% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 IN 12" LAYERS MAX.

3. CATCH BASINS SHALL BE PRECAST MINIMUM 3000 PSI CONCRETE WITH REINFORCED STEEL PER ASTM A615.

D. INSTALLATION:

1. PIPE SHALL BE PLACED ON STABLE GRANULAR MATERIAL FREE OF ROCK FORMATION OTHER FOREIGN FORMATIONS, AND CONSTRUCTED TO UNIFORM GRADE AND LINE.

2. BACKFILL MATERIAL SHALL BE WELL GRADED GRANULAR MATERIAL WELL TAMPED IN LAYERS NOT TO EXCEED SIX INCHES (6").

3. PROVIDE A MINIMUM PROTECTIVE COVER OF 24 INCHES OVER STORM SEWER. CROSSING BY HEAVY CONSTRUCTION VEHICLES DURING CONSTRUCTION SHALL NOT BE ALLOWED WITH LESS THAN 24 INCHES OF COVER.

4. THE CONTRACTOR SHALL NOTIFY THE LOCAL WATER MANAGEMENT DISTRICT AT LEAST 24 HOURS PRIOR TO THE START OF THE CONSTRUCTION AND INSPECTION.

VIII. STORM DRAINAGE PRE-TREATMENT/EXFILTRATION SYSTEM:

A. ANY CONFLICT WITH EXISTING OR PROPOSED UTILITIES SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD. ANY IMPERMEABLE MATERIAL ENCOUNTERED IN THE EXCAVATION FOR THE DRAIN FIELD SHALL BE REMOVED AS DIRECTED BY THE ENGINEER OF RECORD.

B. THE FILTER FABRIC SHALL BE WOVEN MONOFILAMENT TYPE D-3 PER F.D.O.T. INDEX 443-001 AND SECTION 985 OF THE F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, JANUARY 2022 EDITION, OR APPROVED EQUAL. IT SHALL BE USED ON THE BOTTOM, SIDES AND TOP OF DRAIN FIELD DITCH. THE TOP SECTION OF THE MATERIAL SHALL BE LAPPED A MINIMUM OF 24 INCHES AND THE CONTRACTOR SHALL TAKE EXTREME CARE IN BACKFILLING TO AVOID BUNCHING OF THE FABRIC.

C. PERFORATED PIPE WITHIN THE DRAIN FIELDS AND EXFILTRATION TRENCHES SHALL COMPLY WITH AASHTO CLASS II PERFORATIONS.

D. PERFORATED PIPE SHALL TERMINATE FIVE FEET (5.0') FROM THE DRAINAGE STRUCTURE. THE REMAINING FIVE FEET (5.0') SHALL BE NON-PERFORATED PIPE.

E. PIPES SHALL TERMINATE TWO FEET (2.0') FROM THE END OF THE TRENCH OR CONNECT TO ADDITIONAL CATCH BASINS.

IX. PAVING NOTES:

A. GENERAL:

1. ALL UNDERGROUND FACILITIES, INCLUDING WATER, SEWER, STORM DRAINAGE, SLEEVES FOR PUBLIC UTILITIES, AND IRRIGATION LINES SHALL BE INSTALLED PRIOR TO COMPACTION OF ROAD SUBGRADE AND INSTALLATION OF BASE MATERIAL.

2. ALL EXISTING PAVEMENT CUT OR DAMAGED BY CONSTRUCTION SHALL BE PROPERLY RESTORED AT THE CONTRACTOR'S EXPENSE.

3. WHERE PROPOSED PAVEMENT IS TO BE CONNECTED TO EXISTING PAVEMENT, THE EXISTING EDGE OF PAVEMENT SHALL BE SAW CUT.

4. EXISTING ASPHALT PAVEMENT THAT IS TO BE REMOVED SHALL BE TRUCKED OFF SITE BY THE CONTRACTOR FOR DISPOSAL AT AN APPROVED LOCATION.

5. ALL ACCESSIBLE ROUTES CANNOT EXCEED A RUNNING SLOPE OF 1:20 (5%) AND CURB CUT RAMPS AND RAMPS CANNOT EXCEED A RUNNING SLOPE OF 1:12 (8.33%). RAMPS THAT EXCEED 6" IN RISE REQUIRES HANDRAILS. ALL CROSS SLOPES CANNOT EXCEED A SLOPE 1:50 (2%).

6. CONTRACTOR MUST PROVIDE ROCK AS-BUILT TO ENGINEER AND WAIT FOR REVIEW BEFORE INSTALLATION OF ASPHALT.

B. MATERIALS:

1. BASE COURSE SHALL BE CRUSHED LIMEROCK MIAMI OOLITE WITH A MINIMUM OF 70% CARBONATES OF CALCIUM AND MAGNESIUM (60% FOR LOCAL STREETS AND PARKING AREAS) AND A MINIMUM LIMEROCK BEARING RATIO 100.

2. ALL LIMEROCK BASE UNDER PAVED AREAS SHALL HAVE A MINIMUM L.B.R. VALUE OF 100, AND SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.

3. PRIME COAT AND TACK COAT SHALL MEET F.D.O.T. STANDARDS.

4. PAVEMENT SECTION IS TO CONSIST OF A 2" ASPHALTIC CONCRETE PAVEMENT F.D.O.T. TYPE SP-9.5, IN TWO 1" LIFTS.

5. REINFORCED CONCRETE SLABS SHALL BE CONSTRUCTED OF CLASS I CONCRETE WITH A MINIMUM STRENGTH OF 4,000 PSI AND SHALL BE REINFORCED WITH A 6" x 6" No. 10 GAUGE MESH, OR AS SHOWN ON THE PLANS.

C. INSTALLATION:

1. LIMEROCK BASE MATERIAL SHALL BE IN THE COMPACTION THICKNESS SHOWN ON THE PLANS AND SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.

2. LIMEROCK BASE MATERIAL SHALL BE PLACED IN MAXIMUM 6" LIFTS. BASES GREATER THAN 6" SHALL BE PLACED IN TWO OR MORE EQUAL LIFTS.

3. PRIME COAT SHALL BE PLACED ON ALL LIMEROCK BASES IN ACCORDANCE WITH F.D.O.T. STANDARDS.

4. TACK COAT SHALL BE PLACED AS REQUIRED IN ACCORDANCE WITH F.D.O.T. STANDARDS.

D. TESTING:

1. ALL SUBGRADE, LIMEROCK AND ASPHALT TESTS REQUIRED SHALL BE TAKEN AT THE DIRECTION OF THE ENGINEER OF RECORD AND/OR THE PERMITTING AGENCY.

2. THE FINISHED SURFACE OF THE BASE COURSE AND THAT OF THE WEARING SURFACE SHALL NOT VARY MORE THAN 1/4" FROM THE TEMPLATE. ANY IRREGULARITIES EXCEEDING THIS LIMIT SHALL BE CORRECTED.

3. DENSITY TESTS SHALL BE TAKEN BY AN INDEPENDENT TESTING LABORATORY, CERTIFIED BY THE STATE OF FLORIDA, AND TAKEN AS DIRECTED BY THE ENGINEER OF RECORD AND THE PERMITTING AGENCY. ALL TESTING COSTS SHALL BE PAID FOR BY THE CONTRACTOR.

X. INSPECTION NOTES:

A. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD, AT LEAST 24 HOURS PRIOR TO THE INSPECTION OF THE FOLLOWING ITEMS:

1. STORM DRAINAGE. TELEVISED INSPECTION OF ALL GRAVITY STORM PIPES AND LATERALS.
2. SANITARY SEWER AND WATER SYSTEMS.
3. SUBGRADE; ENGINEER TO BE PRESENT AT TIME OF COMPACTION DENSITY TESTS. SUBMIT AND HAVE APPROVED DENSITIES PRIOR TO PLACEMENT OF ROCK.
4. LIMEROCK BASE; ENGINEER TO BE PRESENT AT TIME OF COMPACTION DENSITY TESTS. SUBMIT AND HAVE APPROVED DENSITIES AND AS-BUILTS FOR REVIEW PRIOR TO THE PLACEMENT OF ANY ASPHALT.
5. ASPHALTIC PAVEMENT AND CONCRETE CURBS.
6. FINAL.

XI. SIGNING AND MARKING NOTES:

A. CONTRACTOR IS RESPONSIBLE FOR RESTORING ANY EXISTING TRAFFIC CONTROL SIGNS AND PAVEMENT MARKINGS REMOVED OR DISTURBED DURING CONSTRUCTION TO ORIGINAL CONDITIONS

B. ALL PAVEMENT MARKINGS AND SIGNS SHALL COMPLY WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", THE STANDARD SPECIFICATIONS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION, AND THE DADE COUNTY PUBLIC WORKS MANUAL.

C. INSTALL REFLECTIVE PAVEMENT MARKERS PER F.D.O.T. STANDARDS, OR AS SHOWN ON THE PLANS.

D. ALL SIGNS SHALL BE HIGH-INTENSITY GRADE REFLECTIVE SHEETING, MOUNTED ON A BREAK AWAY POST ASSEMBLY PER F.D.O.T. SPECIFICATIONS.

E. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL PAVEMENT MARKINGS AND SIGNS CONFLICTING WITH THE PROPOSED ROADWAY CONSTRUCTION.

F. CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL PAVEMENT MARKINGS AND SIGNS AS SHOWN IN THE PLANS AND APPLICABLE TRAFFIC DESIGN STANDARDS.

G. CONTRACTOR SHALL BE RESPONSIBLE FOR MATCHING EXISTING PAVEMENT MARKINGS AT THE BEGINNING AND AT THE END OF THE PROJECT.

H. SIGN ASSEMBLY LOCATIONS SHOWN IN THE PLANS WHICH ARE IN CONFLICT WITH STREET LIGHTING UTILITIES, DRIVEWAYS, PEDESTRIAN RAMPS ETC. MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER OF RECORD AND/OR APPROVAL AGENCIES' INSPECTOR.

I. APPLY PAINT IN 2-COAT SYSTEM; FIRST COAT SHALL BE 50% OF TOTAL 15 WET MIL MINIMUM THICKNESS, NOT TO EXCEED 8 MILS. FIRST COAT SHALL BE CURED PRIOR TO INSTALLATION OF SECOND COAT. AT CONTRACTOR'S OPTION, ONE COAT MAY BE APPLIED BEFORE SUBSTANTIAL COMPLETION, WITH A SECOND COAT DELAYED FOR 3-6 MONTHS UNTIL WEATHER CONDITIONS ARE APPROPRIATE AND THE CONCRETE HAS CURED SUFFICIENTLY FOR PROPER ADHESION.

   1. TWO COAT SYSTEM TOTAL WET MIL THICKNESS OF 0.015 IN (0.381 MM).

J. APPLY PAINTING AND FINISHING MATERIALS IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS. USE APPLICATIONS AND TECHNIQUES BEST SUITED FOR MATERIAL AND SURFACES TO WHICH APPLIED. MINIMUM AIR SHALL BE USED TO PREVENT OVERSPRAY. TEMPERATURE DURING APPLICATION SHALL BE MINIMUM OF 40 DEG F AND RISING, UNLESS MANUFACTURER REQUIRES HIGHER MINIMUM TEMPERATURE. MAXIMUM RELATIVE HUMIDITY SHALL BE REQUIRED BY MANUFACTURER.

K. ALL LINES SHALL BE STRAIGHT, TRUE, AND SHARP WITHOUT FUZZY EDGES, OVERSPRAY OR NON-UNIFORM APPLICATION. CORNERS SHALL BE AT RIGHT ANGLES, UNLESS SHOWN OTHERWISE, WITH NO OVERLAPS. LINE WIDTH SHALL BE UNIFORM (-0%, +5% FROM SPECIFIED WIDTH). NO EXCESSIVE HUMPING (MORE MATERIAL IN MIDDLE THAN AT EDGES OR VICE VERSA).

XII. UNDERGROUND STRUCTURES INSTALLATION NOTE:

A. EXCAVATE 12 INCHES BELOW TO DESIGN BEARING LEVEL AND BACKFILL TO THE REQUIRED GRADE USING FREE DRAINING GRAVEL (PEA ROCK OR ROCK #57). THE SURFACE OF THE GRAVEL SHALL BE TAMPED TO ENSURE A FIRM BEARING SURFACE. A GEOTECHNICAL ENGINEER IS TO OBSERVE THE GRAVEL PLACEMENT AT THE END OF THE EXCAVATION PROCESS.

B. CONTRACTOR MUST COLLECT AND SAVE EVIDENCE OF INSTALLATION OF ROCKBED UNTIL OBTAINING CERTIFICATE OF COMPLETION.

SURVEYOR'S NOTES:

ELEVATIONS AS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929, AS PER MIAMI-DADE COUNTY'S BENCHMARK NUMBER M-120, ELEVATION 10.04 FEET.

THIS PROPERTY IS TO BE LOCATED IN FLOOD ZONE "X", AS PER FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), COMMUNITY NUMBER 120041 (CITY OF DORAL), MAP PANEL NO. 12086C0278, SUFFIX L, MAP REVISED DATE: SEPTEMBER 11, 2009.

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RODRIGO BERMUDEZ
LICENSE
No. 98720
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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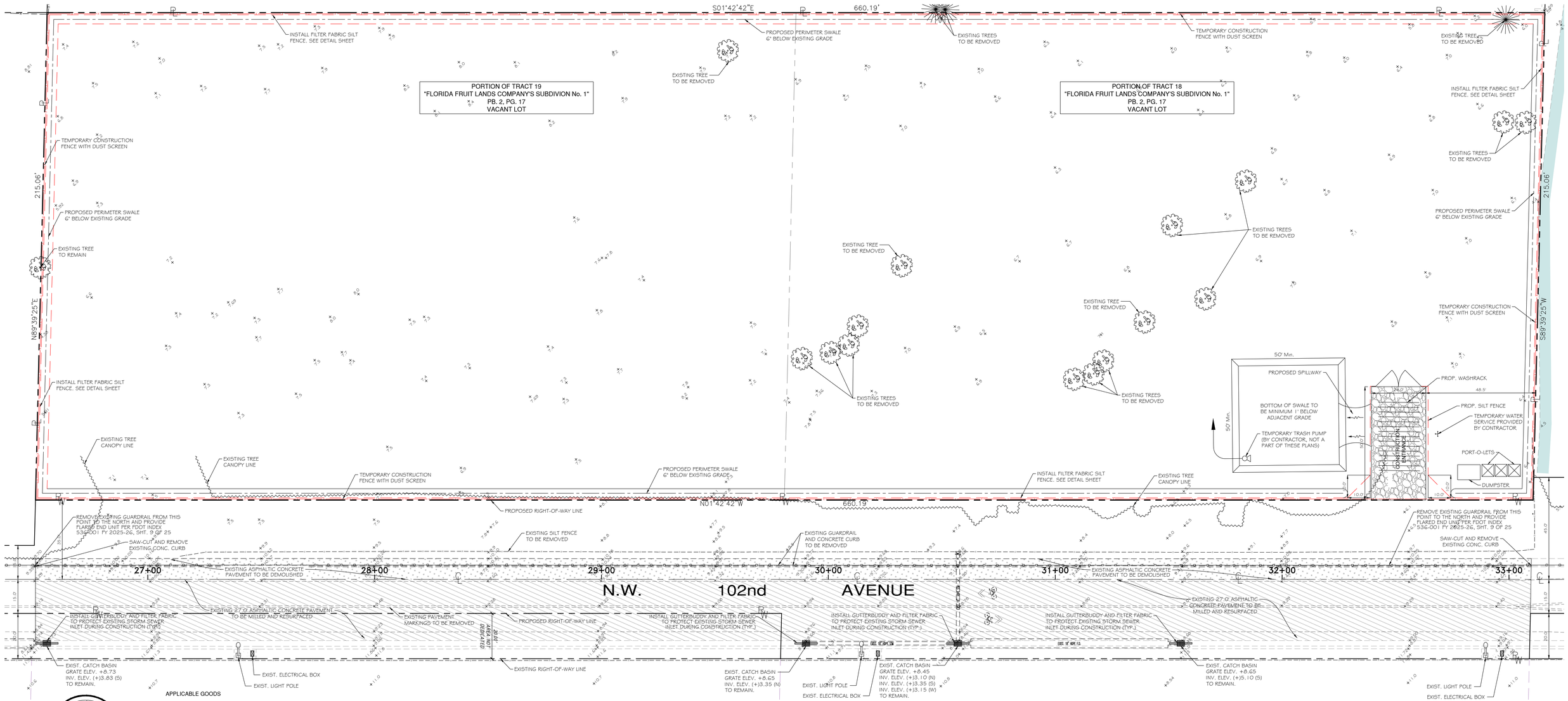
C	09/23/2025	REVISED PER COMMENTS FROM CITY OF DORAL

FORTIN, LEAVY, SKILES, INC.
CONSULTING ENGINEERS, SURVEYORS & MAPPERS
FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 00003653
180 Northeast 168th. Street / North Miami Beach, Florida. 33162
Phone: 305-653-4493 / Email fls@flssurvey.com

NOTES AND SPECIFICATIONS
PAVING AND DRAINAGE SET

PRIME SQUARE DORAL
DORAL, FL 33178

Job. No. 247005	Dwg. No. 3024-025	Date 11/22/2024
Cad. No. 240595CP	Scale N/A	Sheet C-02
Ref. Dwg. S.B.O.	Drawn By. RB	2 of 13



GRAPHIC SCALE

0 10 20 40

(IN FEET)
1 inch = 20 Feet

APPLICABLE GOODS

1. DEMOLITION AND TRANSPORTATION OF DEBRIS SHALL COMPLY WITH APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND REGULATIONS GOVERNING THESE OPERATIONS. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ANY PERMITS, BONDS, LICENSES, ETC., REQUIRED FOR DEMOLITION AND CLEARING WORK.
2. ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF DORAL, MIAMI-DADE COUNTY, FLORIDA AND OTHER GOVERNMENTAL AGENCIES HAVING JURISDICTION, AND SHALL NOT BEGIN UNTIL THE CONTRACTOR HAS BEEN NOTIFIED, AND PERMITS HAVE BEEN OBTAINED FROM THESE GOVERNING AUTHORITIES.

SEQUENCING AND SCHEDULING

1. AREAS ADJACENT TO DEMOLITION AND REMOVAL WORK MAY BE OCCUPIED AND OTHER ACTIVITIES CANNOT BE INTERRUPTED OR DISTURBED DURING NORMAL WORKING HOURS. DEMOLITION SCHEDULE SHALL BE COORDINATED WITH THE CITY OF SUNNY ISLES PUBLIC WORKS DEPARTMENT AND MIAMI DADE COUNTY, ALL ADJACENT PROPERTY OWNERS, AND ANY OTHER PARTIES WHOSE DAILY ACTIVITIES WOULD BE AFFECTED BY THE DEMOLITION WORK.

ENCROACHMENT NOTES

1. PRIOR TO ANY WORK ACTIVITIES ALL EROSION CONTROL FEATURES SHALL BE INSTALLED PER THE STORM WATER POLLUTION PREVENTION PLAN.
2. CONTRACTOR SHALL FOLLOW ALL MIAMI-DADE COUNTY AND THE CITY OF DORAL TRAFFIC CONTROL STANDARDS DURING CONSTRUCTION.
3. EMERGENCY SERVICES (911) SHALL BE NOTIFIED PRIOR TO ROAD CLOSURES AND/OR REROUTING.
4. NO WORK MAY BE PERFORMED WITHIN THE CITY RIGHT-OF-WAY WITHOUT AN APPROVED ENCROACHMENT PERMIT.

ENVIRONMENTAL PROTECTION

1. CONTROL AMOUNT OF DUST RESULTING FROM CONSTRUCTION OR DEMOLITION TO PREVENT SPREAD OF DUST TO OTHER BUILDINGS AND TO AVOID CREATION OF A NUISANCE IN SURROUNDING AREAS. USE OF WATER TO CONTROL DUST WILL NOT BE PERMITTED WHEN IT WILL RESULT IN, OR CREATE, HAZARDOUS OR OBJECTIONABLE CONDITIONS SUCH AS FLOODING.
2. NOISE PRODUCING ACTIVITIES SHALL BE HELD TO A MINIMUM. INTERNAL COMBUSTION ENGINES AND COMPRESSORS, ETC., SHALL BE EQUIPPED WITH MUFFLERS TO REDUCE NOISE TO A MINIMUM. TO COMPLY WITH ALL NOISE ABATEMENT ORDINANCES.
3. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL GOVERNING REGULATION PERTAINING TO ENVIRONMENTAL PROTECTION DURING THE DEMOLITION AND SUBSEQUENT DISPOSAL PROCESS.

TRAFFIC MAINTENANCE

1. CONTRACTOR SHALL FOLLOW FDOT MAINTENANCE OF TRAFFIC PROCEDURES DURING DEMOLITION (INDEX #102 FY 2020-21).
2. THE CONTRACTOR SHALL PROVIDE ADEQUATE BRACING, SHORING, TEMPORARY CROSSOVER FOR PEDESTRIAN AND VEHICULAR TRAFFIC INCLUDING GUARDRAILS, LAMPS, WARNING SIGNS AND FLAGS AS REQUIRED BY AGENCIES HAVING JURISDICTION, AND SHALL NOT REMOVE THESE UNTIL THE NEED FOR PROTECTION CEASES.
3. THE CONTRACTOR MAY NOT CLOSE ANY SIDEWALKS WITHOUT PROVIDING ALTERNATE ROUTES IN ACCORDANCE WITH FDOT INDEX #102 FY 2025/26.
4. CONDUCT REMOVAL OPERATIONS SO THAT TRAFFIC IS MAINTAINED ALONG EXISTING STREETS AND WALKS. KEEP PAVED STREETS AND WALKWAYS FREE OF DEBRIS. REMOVE MATERIAL AND OTHER MATTER TRACKED OR FALLEN ONTO TRAFFIC SURFACES

GENERAL DEMOLITION NOTES AND SPECIFICATIONS:

1. ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER, SPECIFICALLY, THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.) AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) SHALL BE STRICTLY OBSERVED.
2. TRENCH WORK, IF REQUIRED, SHALL COMPLY WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION EXCAVATION SAFETY STANDARDS, 29 C.F.R.S. 1926.650 SUBPART P.
3. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLIANCE WITH THE STATE OF FLORIDA "TRENCH SAFETY ACT", AND ALL REQUIREMENTS OF O.S.H.A.
4. THE CONTRACTOR SHALL SUBMIT MAINTENANCE OF TRAFFIC PLAN AND A DEMOLITION STAGING PLAN TO THE ENGINEER-OF-RECORD AND THE CITY OF DORAL FOR APPROVAL.
5. DEMOLITION AND REMOVAL OPERATIONS SHALL BE CONDUCTED IN AN EXPEDIENT MANNER, WITH PRECAUTIONS TAKEN TO PREVENT THE DEMOLITION SITE FROM BEING A NUISANCE.
6. PERFORM REMOVAL AND DEMOLITION IN ACCORDANCE WITH CONTRACTOR'S DEMOLITION SCHEDULE AND TAKE NECESSARY PRECAUTIONS TO PROTECT EXISTING ADJACENT BUILDINGS, FURNISHINGS AND EQUIPMENT. NOTIFY THE ENGINEER OF ANY CONDITIONS THAT MAY AFFECT THE SAFETY OF OCCUPANTS OF ADJACENT BUILDINGS, THE NORMAL USE OF THESE FACILITIES, OR THE PHYSICAL CONDITION OF THE STRUCTURES.
7. EROSION AND SEDIMENT CONTROL MEASUREMENTS SHALL BE MAINTAINED AT ALL TIMES DURING DEMOLITION.
8. ALL MATERIAL, EXCEPT THAT BELONGING TO A PUBLIC UTILITY COMPANY OR DENOTED FOR SALVAGE, SHALL BECOME PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE OWNER OF WATER, ELECTRIC, OR GAS METERS WHEN THE METERS ARE READY FOR REMOVAL, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISCONNECTING ALL UTILITIES IN COMPLIANCE WITH LOCAL REQUIREMENTS.
9. EXISTING TREES TO REMAIN SHOULD BE PROTECTED FROM DAMAGE DURING DEMOLITION AND CONSTRUCTION AS PER FDOT STD. PLANS INDEX #110-100.
10. THE CONTRACTOR IS TO COORDINATE WORK IN THIS PROJECT TO ENSURE ACCESS TO ADJACENT PROPERTIES AT ALL TIMES.
11. CONTRACTOR SHALL DO ANY AND ALL CUTTING AND PATCHING REQUIRED FOR THIS SCOPE OF WORK, RESTORING ALL SURFACES TO THEIR ORIGINAL CONDITION TO MATCH SURROUNDING FINISHES. ALTERATIONS TO ANY STRUCTURAL MEMBER, EITHER STEEL OR CONCRETE, SHALL REQUIRE PRIOR APPROVAL.
12. DEMOLITION SHALL OCCUR ONLY IN LIMITS OF CONTRACT. THE WORD "REMOVE" SHALL MEAN THE SAME AS "REMOVE MATERIAL AND PROPERLY DISPOSE OF OFF-SITE."
13. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES THAT ARE INTENDED TO CONTINUE TO PROVIDE SERVICE WHETHER THESE UTILITIES ARE SHOWN ON THE PLAN OR NOT.
14. CONTRACTOR TO COORDINATE WITH THE PERMITTING AGENCY THE REMOVAL AND/OR DISCONNECTING THE EXISTING WATER LINE, WATER METER, WATER VALVES, AND SEWER LINES LOCATED WITHIN THE DEMOLITION LIMIT.
15. THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER DISPOSAL OF DEMOLITION DEBRIS. THE CONTRACTOR SHALL CONDUCT ALL DEMOLITION, REMOVAL, STORAGE, CLEANUP, ETC. IN ACCORDANCE WITH ALL REGULATING AUTHORITIES INCLUDING BUT NOT LIMITED TO THE CITY OF DORAL, MIAMI-DADE COUNTY D.E.R.M., THE U.S. ENVIRONMENTAL PROTECTION AGENCY AND FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AGENCY.
16. THE CONTRACTOR SHALL CONDUCT EXCAVATION OPERATIONS UTILIZING WARNING DEVICES, SUCH AS TRAFFIC CONES, BARRICADES AND WARNING LIGHTS IN SUCH A MANNER THAT TRAFFIC, PEDESTRIAN AND THE CITY'S PERSONNEL ARE GIVEN ADEQUATE WARNING OF HAZARDS OF THE WORKSITE.
17. ALL OPEN TRENCHES, HOLES AND/OR MANHOLES ADJACENT TO WALKWAYS, ROADWAYS OR THE SHOULDERS SHALL BE PROPERLY MARKED, BARRICADED AND FENCED TO ASSURE THE SAFETY OF PEDESTRIAN AND VEHICULAR TRAFFIC.
18. EXISTING ASPHALT PAVEMENT, CONCRETE AND UNDERGROUND PIPES, DEBRIS THAT ARE TO BE REMOVED SHALL BE TRUCKED OFF-SITE BY THE CONTRACTOR FOR DISPOSAL AT A LOCATION APPROVED BY MIAMI-DADE COUNTY D.E.R.M. NO DEBRIS WILL BE ALLOWED TO REMAIN IN THE ROADWAYS OR THEIR SHOULDERS FOR MORE THAN 24 HOURS.
19. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE CITY OF DORAL AND MIAMI-DADE COUNTY NECESSARY FOR DEMOLITION, CLEANUP, HAULING AWAY, AND OTHER RELATED TASKS AT THE CONTRACTOR'S
20. IN THE EVENT OF INTERRUPTION TO DOMESTIC WATER, SEWER, STORM DRAINAGE, OR OTHER UTILITY SERVICES AS A RESULT OF ACCIDENTAL BREAKAGE DUE TO DEMOLITION, REMOVAL OR ABANDONMENT WORK, CONSTRUCTION OPERATIONS, PROMPTLY NOTIFY THE PROPER AUTHORITY.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND RETAINING ALL INSURANCE AS REQUIRED BY THE CITY OF DORAL AND MIAMI-DADE COUNTY.
22. THE CONTRACTOR SHALL SUBMIT TO THE CITY OF DORAL, MIAMI DADE COUNTY AND ENGINEER OF RECORD A DETAIL OF THE BYPASS PLAN AND DESIGN TO CAUSE NO FLOW INTERRUPTIONS OF PEDESTRIAN AND VEHICULAR TRAFFIC TO ADJACENT STREETS, PROPERTY OWNERS AND BUSINESSES.

NOTES:

1. EROSION CONTROL METHODS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT.

2. IF ANY STRUCTURE OR UTILITY IS IMPACTED IN THE RIGHT-OF-WAY, THEN THE CONTRACTOR SHALL RESTORE IT TO EXISTING CONDITIONS OR BETTER AT THE CONTRACTOR EXPENSES.

3. ALL WATER MUST BE KEPT/STORED ONSITE. DISCHARGING WATER OFFSITE OF THE PROPERTY INTO THE ROADWAY, THE RIGHT OF WAY'S DRAINAGE SYSTEM OR ADJACENT BODY OF WATER IS NOT PERMITTED.

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MIAMI-DADE COUNTY RESOURCE RECOVERY FACILITY

MIAMI-DADE COUNTY RESOURCE RECOVERY FACILITY

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FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 00003653
180 Northeast 168th. Street / North Miami Beach, Florida. 33162
Phone: 305-653-4493 / Email fls@flssurvey.com

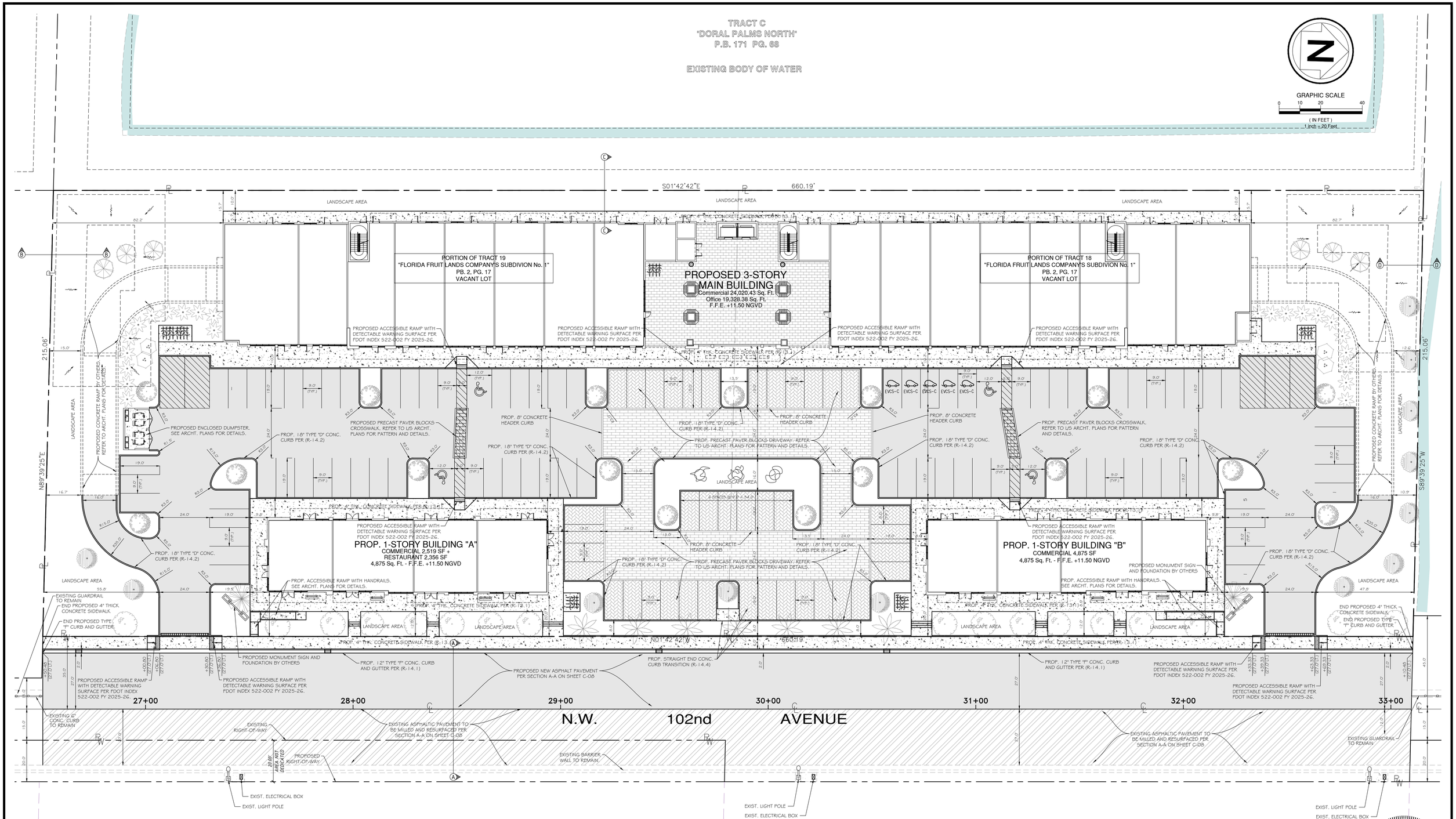
SEDIMENT AND EROSION CONTROL PLAN

PAVING AND DRAINAGE SET

PRIME SQUARE DORAL

7100-7200 NW 102nd Ave, Doral, FL 33178

Job. No. 247005	Dwg. No. 3024-025	Date 11/22/2024
Cad. No. 240595CP	Scale 1" = 20'	Sheet C-03
Ref. Dwg. S.B.O.	Drawn By. JDI	3 of 13



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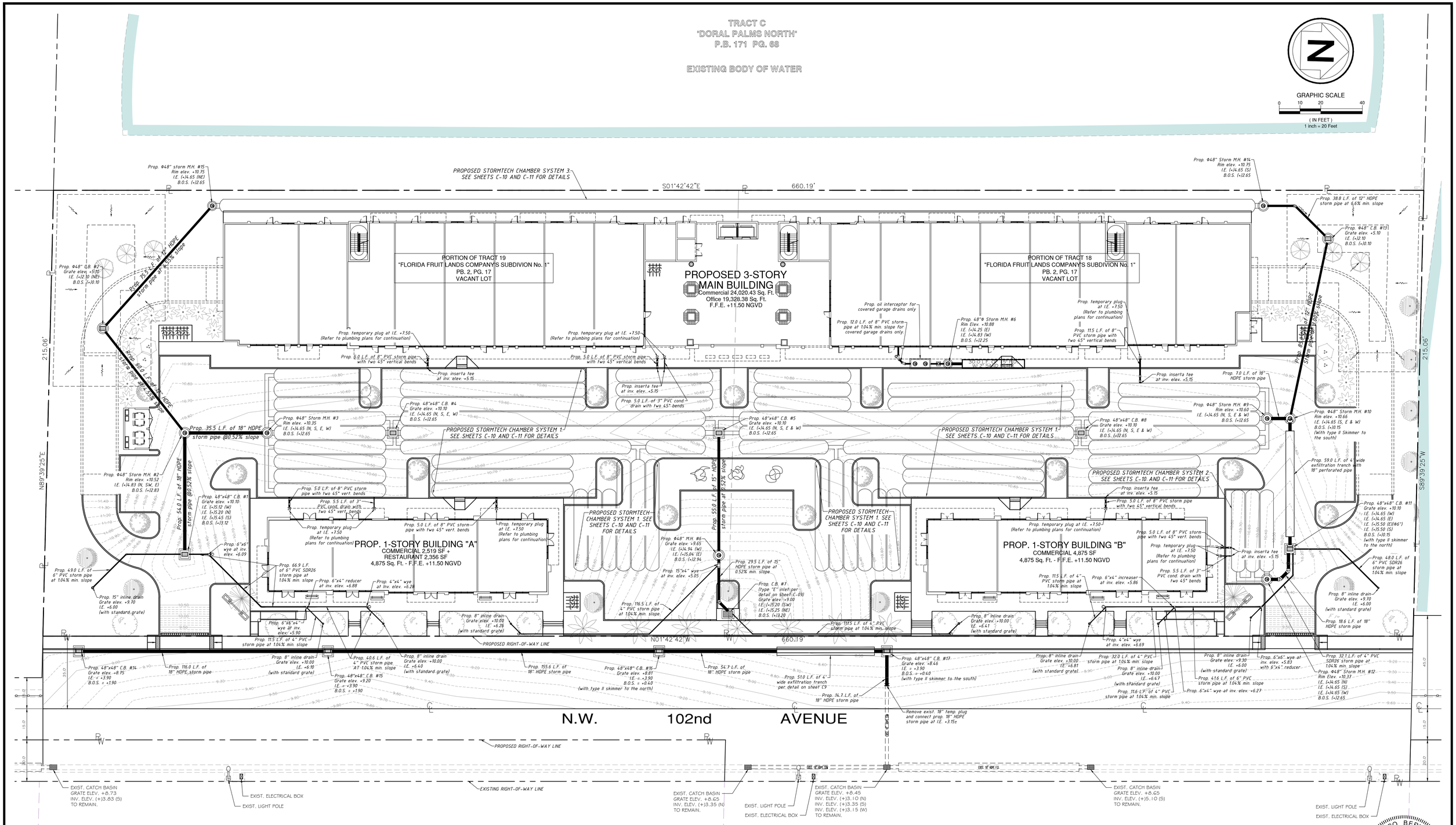
PAVING AND GEOMETRY PLAN

PAVING AND DRAINAGE SET

PRIME SQUARE DORAL

7100-7200 NW 102nd Ave, Doral, FL 33178

Job. No. 247005	Dwg. No. 3024-025	Date 11/22/2024
Cad. No. 240595CP	Scale 1" = 20'	Sheet C-04
Ref. Dwg. S.B.O.	Drawn By. RB	4 of 13



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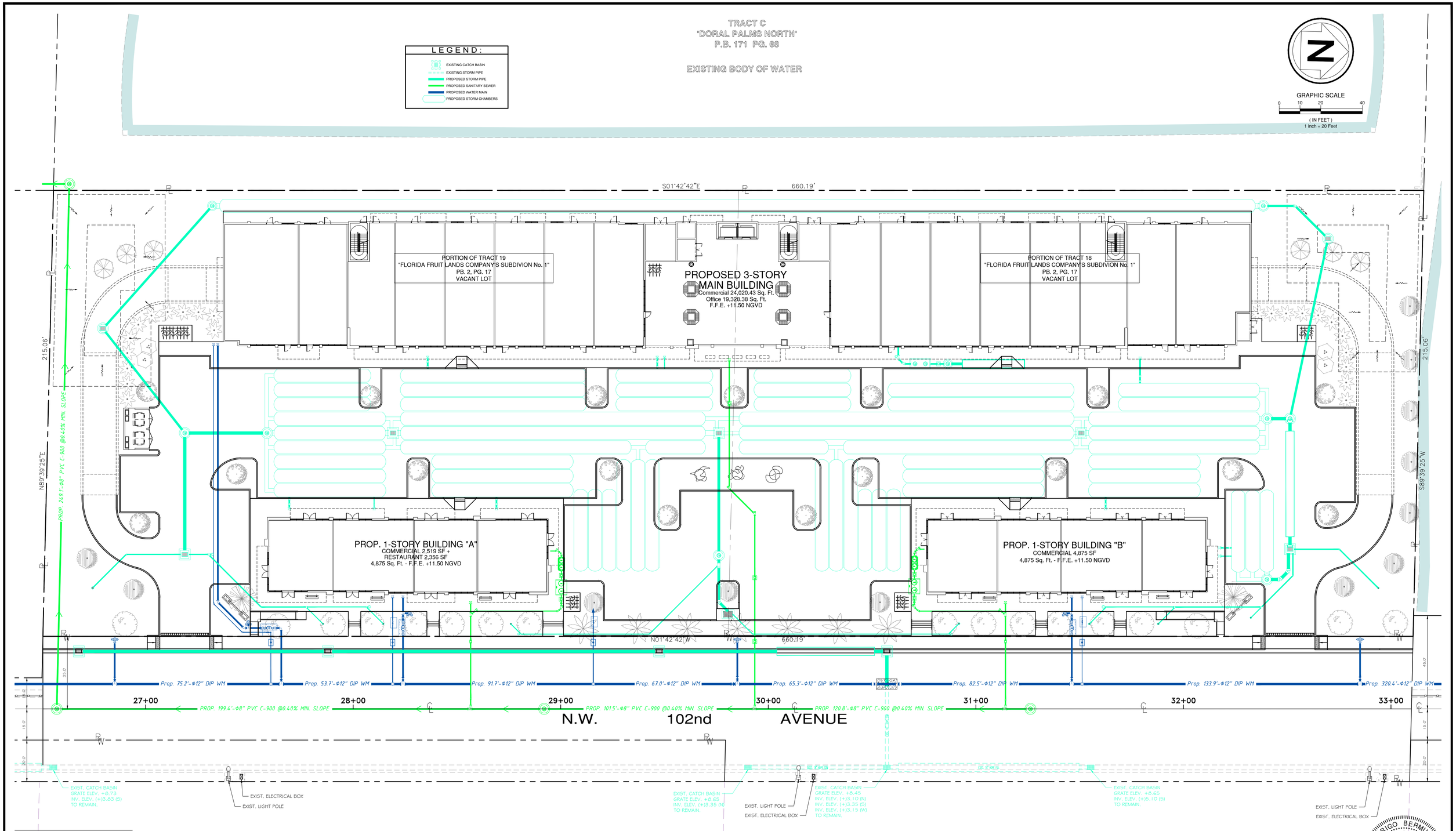
DRAINAGE PLAN

PAVING AND DRAINAGE SET

PRIME SQUARE DORAL

7100-7200 NW 102nd Ave, Doral, FL 33178

Job. No. 247005	Dwg. No. 3024-025
Cad. No. 240595CP	Scale 1" = 20'
Ref. Dwg. S.B.O.	Drawn By. RB
Date 11/22/2024	Sheet C-05 5 of 13



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UTILITIES COORDINATION PLAN

PAVING AND DRAINAGE SET

PRIME SQUARE DORAL

7100-7200 NW 102nd Ave, Doral, FL 33178

Job. No.	247005
Cad. No.	240595CP
Ref. Dwg.	S.B.O.
Dwg. No.	3024-025
Scale	1" = 20'
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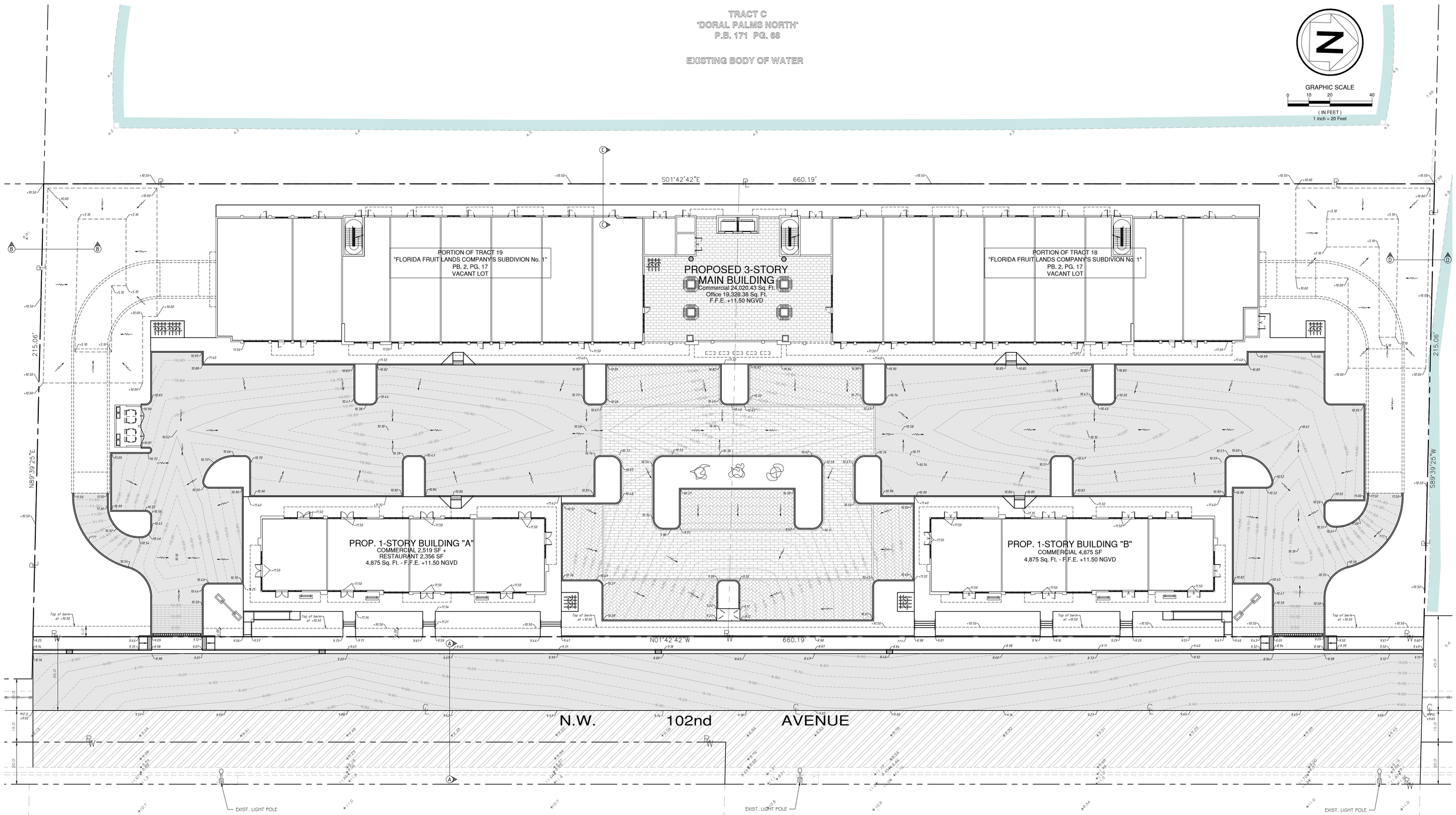
Date	11/22/2024
Sheet	C-05a



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Phone: 305-653-4493 / Email lls@flssurvey.com

GRADING PLAN

PAVING AND DRAINAGE SET

PRIME SQUARE DORAL

7100-7200 NW 102nd Ave, Doral, FL 33178

Job. No.	247005
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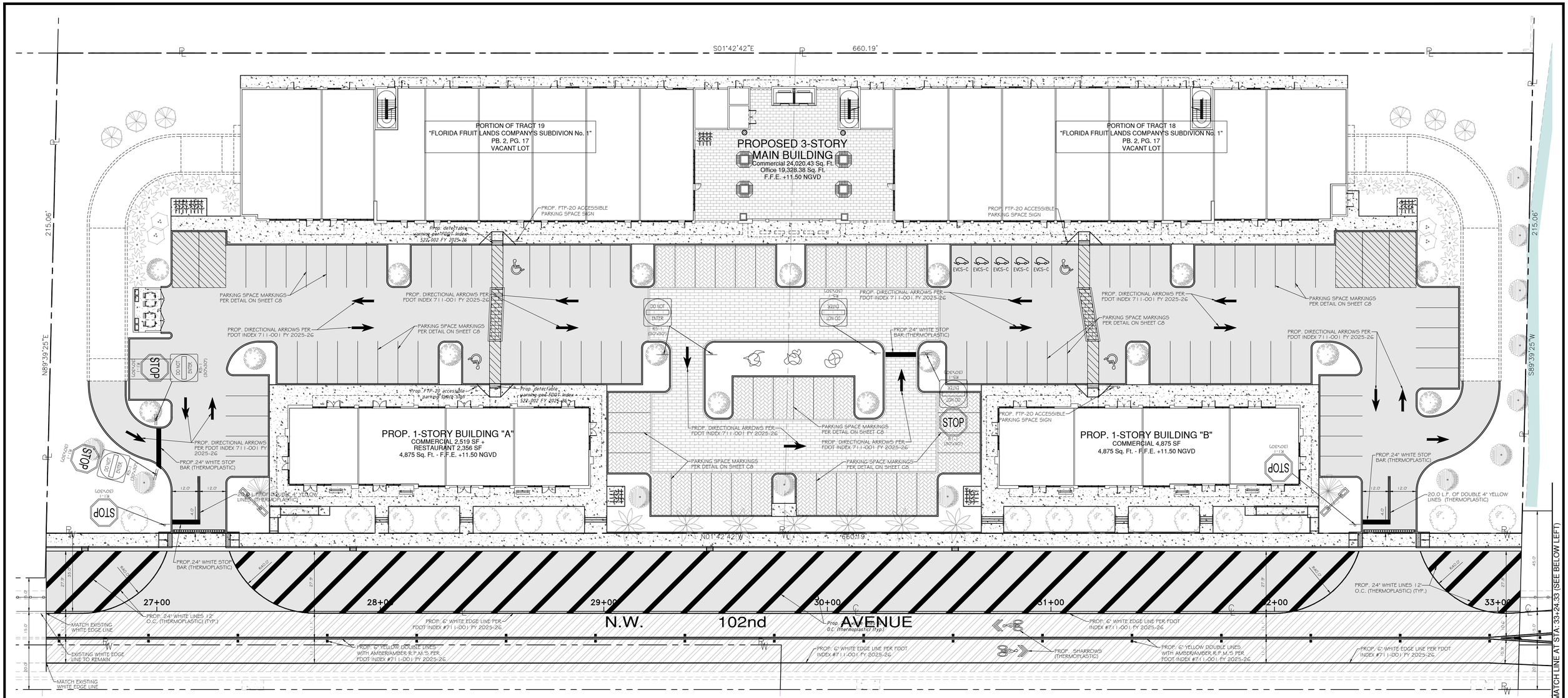
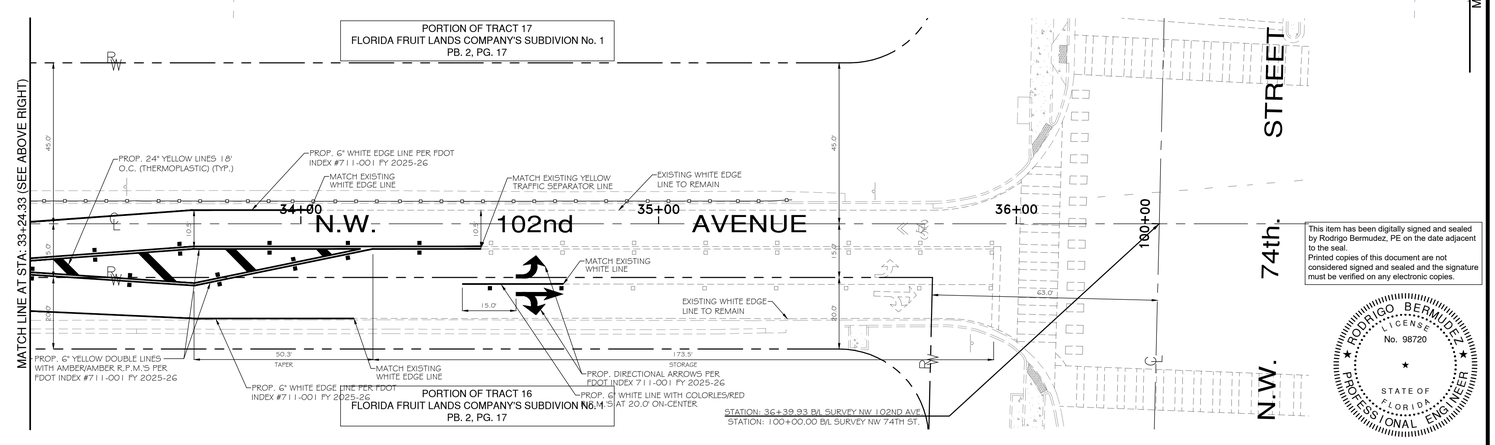
Sheet	C-05b
	7 of 13





GRAPHIC SCALE

0 10 20 40

(IN FEET)
1 inch = 20 Feet

This item has been digitally signed and sealed by Rodrigo Bermudez, PE on the date adjacent to the seal.
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RODRIGO BERMUDEZ
LICENSE
No. 98720
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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No.	Date	Revision Description
A	07/29/2025	CUT & FILL APPLICATION SET
B	07/29/2025	REVISED PER COMMENTS FROM CITY OF DORAL
C	09/23/2025	REVISED PER COMMENTS FROM CITY OF DORAL

FORTIN, LEAVY, SKILES, INC.
CONSULTING ENGINEERS, SURVEYORS & MAPPERS
FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 00003653
180 Northeast 168th. Street / North Miami Beach, Florida. 33162
Phone: 305-653-4493 / Email fls@flssurvey.com

SIGNING AND MARKING PLAN

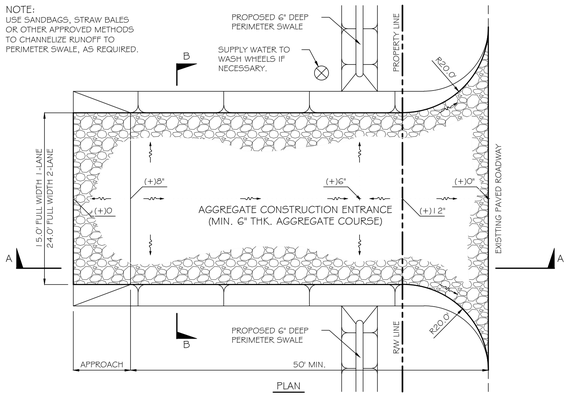
PAVING AND DRAINAGE SET

PRIME SQUARE DORAL

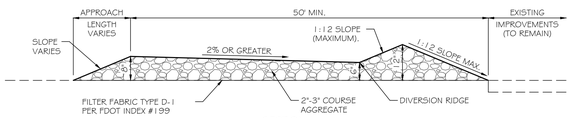
7100-7200 NW 102nd Ave, Doral, FL 33178

Job. No. 247005	Dwg. No. 3024-025	Date 11/22/2024
Cad. No. 240595CP	Scale 1" = 20'	Sheet C-06
Ref. Dwg. S.B.O.	Drawn By. JDI	8 of 13

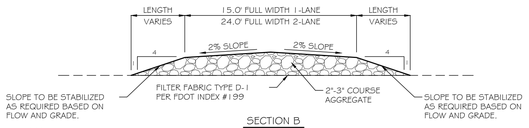
NOTE:
USE SANDBAGS, STRAW BALES OR OTHER APPROVED METHODS TO CHANNELIZE RUNOFF TO PERIMETER SWALE, AS REQUIRED.



PLAN



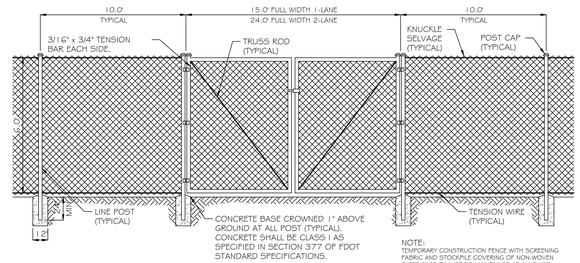
SECTION A



SECTION B

NOTE:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, JDIAIR AND/ OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

TYPICAL DETAIL
TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
N.T.S.



NOTE:
TEMPORARY CONSTRUCTION FENCE WITH SCREENING FABRIC AND STOCKPILE COVERING OF NON-WOVEN FILTER FABRIC MUST BE MAINTAINED AT ALL TIMES AROUND THE SITE. STANDARD SPECIFICATIONS.

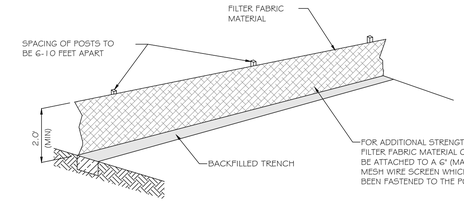
CHAIN LINK FENCE MATERIAL SPECIFICATION:
CHAIN LINK: 6' HG. x 2 3/8" DIAMOND x 11.5 GAUGE KK
TIES: 12ga x 7 STEEL, 4 PER POST
LINE POST SPACING: 10'
LINE POST: 1 5/8" x 8' GATE POST, WALL THICKNESS .080
BRACE POST: 1 5/8" x 8' GATE POST, WALL THICKNESS .095

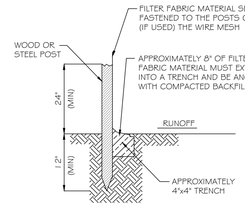
GATE MATERIAL SPECIFICATION:
GATE FRAME: 1 3/8", WALL THICKNESS .065
CHAIN LINK: 6' HIGH x 2 3/8" DIAMOND x 11.5 GAUGE KK
MALE HINGES: 2.5" x 1 1/8" WIDE x 1/8" THICK HEAVY DUTY STEEL
FEMALE HINGE: 1 3/8" x 1/8" THICK HEAVY DUTY STEEL
GATE POST: 2.5" x 8' GATE POST, WALL THICKNESS .096

CONSTRUCTION FENCE SCREEN

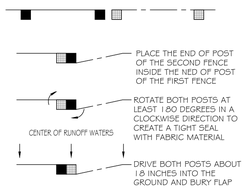
PROPERTIES	
COLOR	GREEN, BLACK, BROWN, BEIGE, ROYAL BLUE
MATERIAL COMPOSITION	KNITTED HDPE HIGH DENSITY POLYETHYLENE
FILAMENT STRENGTH	50 LBS. PER FT.
MATERIAL BREAK STRENGTH	500 LBS. PER FT.
MATERIAL WEIGHT	145 GRAMS PER SQ. METER
CRYSTALINE MELT POINT	133 DEGREES C
COMPOSITION OF UV INHIBITOR	1.5% AMPLAS CM1118211.5% EQUASTER CM100000
SHADE VALUE	88%
FLAMMABILITY POINT	364 DEGREES C

TYPICAL DETAIL
TEMPORARY CONSTRUCTION CHAIN LINK FENCE
N.T.S.

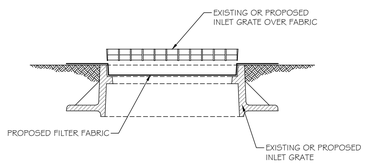




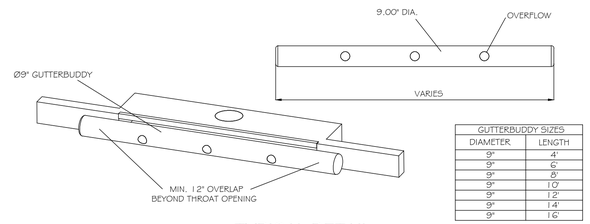
ATTACHING TWO SILT FENCES



TYPICAL DETAIL
INSTALLING A FILTER FABRIC SILT FENCE
N.T.S.



TYPICAL DETAIL
FILTER FABRIC INSTALLATION
N.T.S.



GUTTERBUDDY SIZES	
DIAMETER	LENGTH
9"	4'
9"	6'
9"	8'
9"	10'
9"	12'
9"	14'
9"	16'

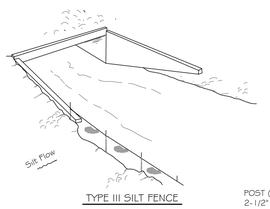
TYPICAL DETAIL
GUTTERBUDDY INSTALLATION
N.T.S.

EROSION AND SEDIMENT CONTROL GENERAL NOTES:

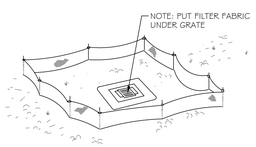
1. IT IS THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THIS STORM WATER POLLUTION PREVENTION PLAN (SWPPP). IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS AS SHOWN HEREON AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS.
2. ALL ELEVATIONS ON THE PLANS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD).
3. INSTALLATION OF ALL EROSION AND SEDIMENTATION CONTROL DEVISES SHALL BE PERFORMED UNDER THE SUPERVISION OF A FLORIDA REGISTERED SURVEYOR.
4. THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER IF ANY ADDITIONAL DIMENSIONS OR SPECIFICATION ARE NEEDED TO LAYOUT THE POLLUTION CONTROL DEVISE.
5. CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD TO RESOLVE CONFLICTS BETWEEN DESIGN AND EXISTING FEATURES.
6. WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR BEEN PLACED IN, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION.
7. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVISES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
8. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, E.T.C. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
9. BALES IF USED SHALL BE EITHER WIRE-BOUND OR STRING-TIED WITH THE BINDINGS ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.
10. BALES SHALL BE PLACED LENGTH WISE IN A SINGLE ROW SURROUNDING THE INLET WITH THE ENDS OF THE ADJACENT BALES PRESSED TOGETHER.
11. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRE JDIAIRS SHALL BE MADE IMMEDIATELY.
12. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE JDILACED PROMPTLY.
13. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT, THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-THIRD THE HEIGHT OF THE BARRIER.
14. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES.
15. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO THE FLORIDA DEVELOPMENT MANUAL - A GUIDE TO SOUND LAND AND WATER MANAGEMENT FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION (FDER) CHAPTER 6.
16. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS A POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
17. ANY DISCHARGE FROM DEWATERING ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE OUTFALL IN A MANNER WHICH PREVENTS EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS TO THE RECEIVING OUTFALL.
18. DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
19. ALL DISTURBED AREAS ARE TO BE STABILIZED THROUGH COMPACTION SILT SCREENS, HAY BALES, AND GRASSINGS. ALL THE FILL SLOPES 3:1 OR STEEPER TO RECEIVE STAKED SOLID SOD.
20. ALL DEWATERING EROSION AND SEDIMENT CONTROL TO REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION AND REMOVED ONLY WHEN AREAS HAVE STABILIZED.
21. THIS PLAN INDICATES MINIMUM EROSION AND SEDIMENT CONTROL MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL EROSION AND SEDIMENTATION CONTROLS.
22. THE CONTRACTOR SHALL BE REQUIRED TO RESPOND TO ALL WATER D.E.P. INQUIRIES RELATIVE TO COMPLIANCE OF D.E.P. FOR EROSION AND SEDIMENTATION CONTROL. THE COST OF THIS COMPLIANCE SHALL BE PART OF THE CONTRACT.
23. WHERE FLORIDA DEPARTMENT OF TRANSPORTATION (F.D.O.T.) SPECIFICATIONS AND INDEX ARE REFERENCED, PLEASE REFER TO (F.D.O.T.) ROADWAY AND TRAFFIC DESIGN STANDARDS AND (F.D.O.T.) STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION.

OTHER CONTROLS:

1. WASTE MATERIALS: ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT AND IS RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.
2. HAZARDOUS WASTE: ALL HAZARDOUS WASTE MATERIAL WILL BE DISPOSED OF IN A MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES BY THE SITE SUPERINTENDENT. THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.
3. SANITARY WASTE: ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH THE STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER SYSTEMS.
4. OFFSITE VEHICLE TRACKING: A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEPT DAILY TO REMOVE ANY EXCESS MUD, DIRT, OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED.

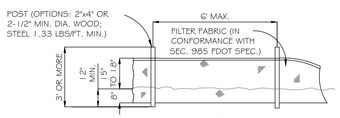


TYPE III SILT FENCE

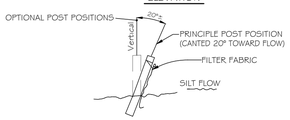


TYPE III SILT FENCE
PROTECTION AROUND DITCH BOTTOM INLETS.

TYPE III SILT FENCE



ELEVATION

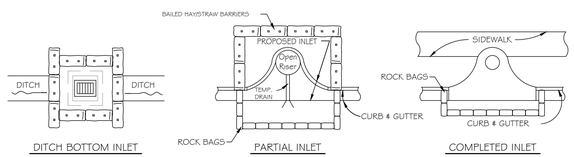


SECTION

NOTES: SPACING FOR TYPE III FENCE TO BE IN ACCORDANCE WITH CHART 1, SHEET 1 OF 3 AND DITCH INSTALLATIONS AT DRAINAGE STRUCTURES SHEET 2 OF 3.

DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (LF).



NOTE: THESE DETAILS ARE FOR TYPICAL INSTALLATIONS AND ARE REQUIRED ONLY WHEN NECESSARY TO PREVENT EROSION OF THE SITE.

TYPICAL DETAIL
PROTECTION AROUND INLETS
N.T.S.

NOTE:
EROSION CONTROL METHODS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT.

RODRIGO BERMUDEZ
LICENSE
No. 98720
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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CONSULTING ENGINEERS, SURVEYORS & MAPPERS
FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 00003653
180 Northeast 168th. Street / North Miami Beach, Florida. 33162
Phone: 305-653-4493 / Email fls@flssurvey.com

SEDIMENT AND EROSION CONTROL DETAILS

PAVING AND DRAINAGE SET

PRIME SQUARE DORAL

7100-7200 NW 102nd Ave, Doral, FL 33178

Job. No. 247005	Dwg. No. 3024-025	Date 11/22/2024	
Cad. No. 240595CP	Scale N.T.S.	Sheet C-07	
Ref. Dwg. S.B.O.	Drawn By. RB	9 of 13	

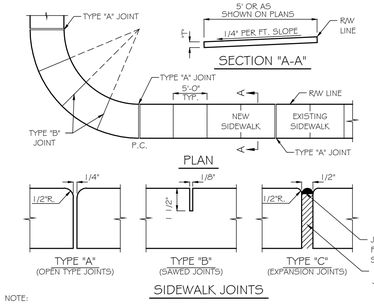


TABLE OF SIDEWALK JOINTS	
TYPE	LOCATION
"A"	P.C. AND P.T. OF CURVES JUNCTION OF EXIST. AND NEW SIDEWALKS
"B"	5'-0" CENTER TO CENTER ON SIDEWALKS
"C"	*WHERE SIDEWALK ABUTS CONC. CURBS, DRIVEWAYS, AND SIMILAR STRUCTURES.

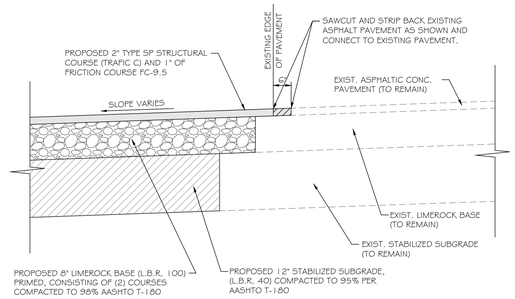
NOTE: ALL SIDEWALKS SHALL BE 5 FEET WIDE MINIMUM, IN PUBLIC RIGHT OF WAY.

TABLE OF SIDEWALK THICKNESS - "T"	
LOCATION	"T"
RESIDENTIAL AREAS	4"
@ DRIVEWAYS & OTHER AREAS	6"

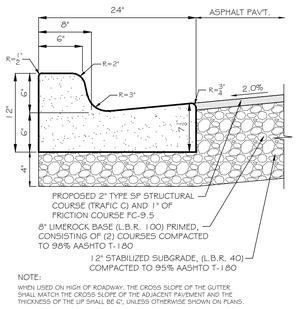
NOTE:
6" THK. CONC. SIDEWALKS SHALL BE CONSTRUCTED OVER A 6" LIMEROCK BASE, (L.B.R. 100) PRIMED, COMPACTED TO 98% DENSITY AND 1.2" STABILIZED SUBGRADE, (L.B.R. 40) COMPACTED TO 95% PER AASHTO T-180

SUBGRADE NOTE:
6" OF COMPACTED SUBGRADE TO A MINIMUM OF 95% OF AASHTO T-99 DENSITY. THE AREA TO BE COMPACTED IS DEFINED AS THAT AREA DIRECTLY UNDER THE SIDEWALK AND 1 FOOT BEYOND EACH SIDE WHERE RIGHT OF WAY AND CONDITIONS ALLOW.

TYPICAL DETAIL
SIDEWALK CONSTRUCTION
N.T.S.

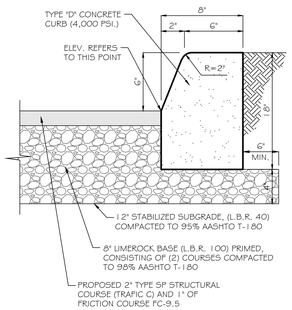


TYPICAL DETAIL
PAVEMENT CONNECTION
N.T.S.

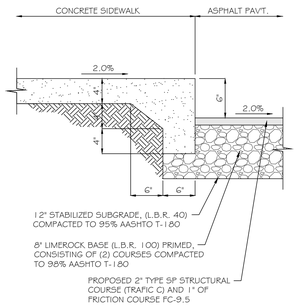


NOTE:
WHEN USED ON HIGH OF ROADWAY, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON PLANS.

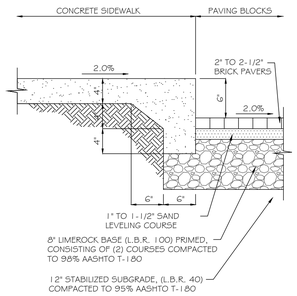
TYPICAL DETAIL
TYPE "F" CURB and GUTTER
N.T.S.



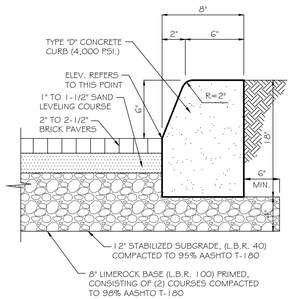
TYPICAL DETAIL
TYPE "D" CONC. CURB
N.T.S.



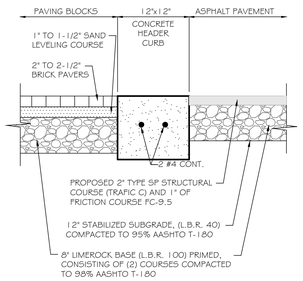
TYPICAL DETAIL
SWK. ADJACENT TO PAV'T.
N.T.S.



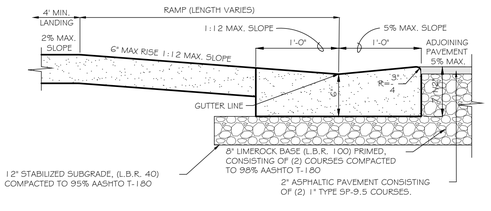
TYPICAL DETAIL
SWK. ADJACENT TO PAVERS
N.T.S.



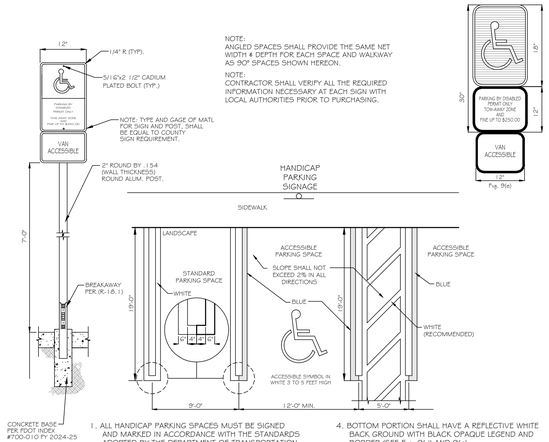
TYPICAL DETAIL
TYPE "D" CONC. CURB
N.T.S.



TYPICAL DETAIL
CONCRETE PAVING BLOCKS
N.T.S.

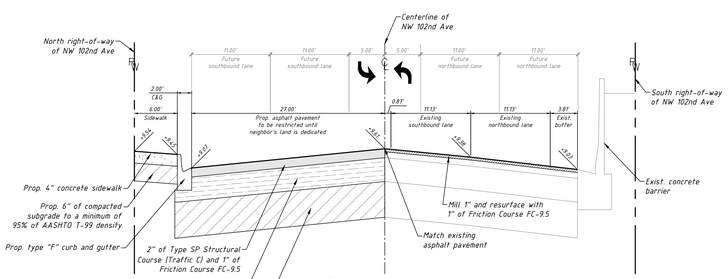


TYPICAL DETAIL
2' VALLEY GUTTER AT CURB RAMPS
N.T.S.

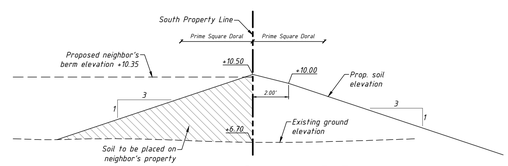


1. ALL HANDICAP PARKING SPACES MUST BE SIGNED AND MARKED IN ACCORDANCE WITH THE STANDARDS ADOPTED BY THE DEPARTMENT OF TRANSPORTATION.
2. USE OF PAVEMENT SYMBOL IN HANDICAP PARKING SPACES IS OPTIONAL.
3. TOP PORTION OF Fig. 9(d) AND 9(e) SHALL HAVE A REFLECTIVE BLUE BACKGROUND WITH WHITE REFLECTIVE SYMBOL AND BORDER.
4. BOTTOM PORTION SHALL HAVE A REFLECTIVE WHITE BACK GROUND WITH BLACK OPAQUE LEGEND AND BORDER (SEE Fig. 9(d) AND 9(e).
5. Fig. 9(d) AND 9(e) MAY BE FABRICATED ON ONE PANEL OR TWO.
6. Fig. 9(d) MAY BE SUBSTITUTED FOR Fig. 9(e) IN AREAS WHERE SPACE IS LIMITED.
7. SIGNS ARE TO BE MOUNTED AT STANDARD HEIGHT, (7 FT. FROM PAVEMENT TO BOTTOM OF SIGN).

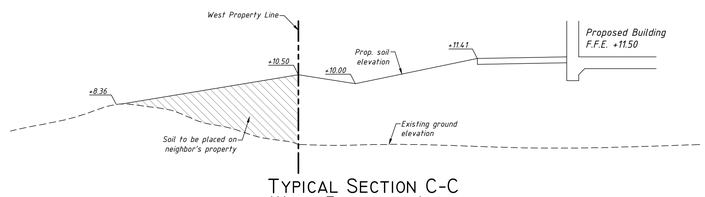
TYPICAL DETAIL
HANDICAP and STANDARD PARKING SPACES
NOT TO SCALE



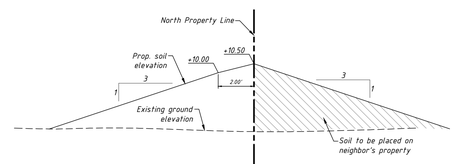
SECTION A-A
HORIZONTAL SCALE: 1" = 2'
VERTICAL SCALE: 1" = 5'



TYPICAL SECTION B-B
SOUTH PROPERTY LINE
SCALE: 1" = 4'



TYPICAL SECTION C-C
WEST PROPERTY LINE
SCALE: 1" = 4'



TYPICAL SECTION D-D
NORTH PROPERTY LINE
SCALE: 1" = 4'

This item has been digitally signed and sealed by Rodrigo Bermudez, PE on the date adjacent to the seal.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

RODRIGO BERMUDEZ LICENSE No. 98720 STATE OF FLORIDA PROFESSIONAL ENGINEER

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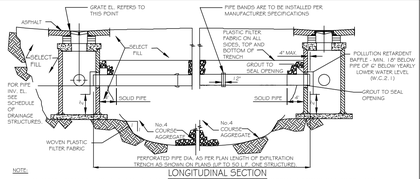
No.	Date	Revision Description
A	07/29/2025	CUT & FILL APPLICATION SET
B	07/29/2025	REVISED PER COMMENTS FROM CITY OF DORAL
C	09/23/2025	REVISED PER COMMENTS FROM CITY OF DORAL

FORTIN, LEAVY, SKILES, INC.
CONSULTING ENGINEERS, SURVEYORS & MAPPERS
FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 00003653
180 Northeast 168th. Street / North Miami Beach, Florida. 33162
Phone: 305-653-4493 / Email fls@flssurvey.com

TYPICAL SECTIONS AND PAVING DETAILS
PAVING AND DRAINAGE SET

PRIME SQUARE DORAL
7100-7200 NW 102nd Ave, Doral, FL 33178

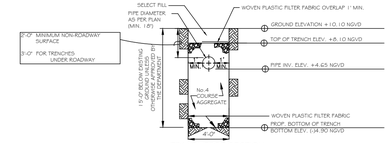
Job. No. 247005	Dwg. No. 3024-025	Date 11/22/2024
Cad. No. 240595CP	Scale N.T.S.	Sheet C-08
Ref. Dwg. S.B.O.	Drawn By. RB	10 of 13



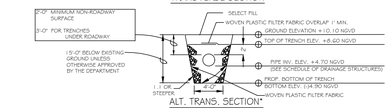
NOTE:

LONGITUDINAL SECTION

AFTER THE COURSE AGGREGATE HAS BEEN PLACED TO THE PROPER ELEVATION IT SHALL BE CAREFULLY WASHED DOWN WITH CLEAN WATER OR TAMPERED, TO ALLOW FOR INITIAL SETTLEMENT THAT MAY OCCUR, IF SETTLEMENT DOES TAKE PLACE, ADDITIONAL No.4 COURSE AGGREGATE SHALL BE ADDED TO RESTORE THE PROPER ELEVATION SO THAT THE EXFILTRATION TRENCH IS COMPLETED IN ACCORDANCE WITH THE DETAILS.



TRANSVERSE SECTION



ALT. TRANS. SECTION*

* MAY BE USED IN AREAS WHERE TRENCH WALLS WILL NOT STAND VERTICAL, OR WHERE CAVE-IN BELOW THE WATER TABLE IS LIKELY TO OCCUR, TO BE USED AT THE ENGINEERS DISCRETION.

NOTES (CONTINUED ON NEXT PAGE)

1. PLASTIC FILTER FABRIC SHALL BE WOVEN MONOFILAMENT POLYPROPYLENE GEOTEXTILE. PERMITTIVITY SHALL BE GREATER THAN 0.50 SEC AND FLOW RATE GREATER OR EQUAL TO 50 gal/min.
2. MAXIMUM EXFILTRATION WHICH CAN BE USED IN CALCULATING FRENCH DRAIN LENGTH IS 0.1 cfs/ft.

STANDARD STORM DRAINAGE DETAIL

ON-SITE EXFILTRATION TRENCH (FRENCH DRAIN)

SHEET 1 OF 2

NOTES - CONTINUED

3. The minimum pipe diameter for drainage system within the roadway right-of-way shall be 18 inches. 15 inch pipe may be used in private roadways.
4. No trees to be planted within 5 feet of the edge of the trench.
   Type "P" structure is recommended for small drainage areas less than 0.2 acre per catch basin.
5. Type "J" S.D. structure is recommended for areas larger than 0.2 acre
6. All inverts of perforated pipes to be at mean high October water table.
7. Pipes can be allowed below mean high October water table due to utility conflicts or in order to provide the required minimum cover.
8. Neoprene gasket required for baffles on all contact edges mounted on wall.
9. Oil and grease baffle is required for all drainage structures preceding an outfall or exfiltration trenches. In projects located in wellfield protection areas, road intersections with traffic lights, AND large parking lots which include 15 parking spaces or more.
10. Oil and grease baffle may be waived in suburban residential areas.
11. After the ballast rock has been placed to the proper elevation it shall be carefully vibrated or compacted in order to allow for initial settlement that may occur. If it does take place, additional ballast rock will be added to restore the ballast rock to the proper elevation so that the exfiltration trench can be completed in accordance with the detail.

GENERAL NOTES FOR PIPE CULVERTS

Contractor has the option of installing any pipe meeting the requirements of Section 443-2 of the FDOT Standard Specifications for road and bridge construction as long as the manufacturer is listed. At the time of pipe installation, in FDOT's list of producers with accepted quality control programs. Pipes with less than a 100-year certification cannot be used on section line, half section line, collector roadways, and arterials. 50-year pipe certification required for all other minor/local roadways.

MINIMUM NUMBER OF PERFORATION IN PIPE CULVERTS

PIPE DIAMETER (inches)	OUTER SHELL No. of 3/8" Dia. Holes (PER LIN. FT. OF PIPE)	LINER No. of 5/8" Dia. Holes (PER LIN. FT. OF PIPE)
15	100	50
18	120	60
24	160	80
30	200	100
36	240	120
42	275	140
48	315	150
54	355	180
60	395	200
72	470	235
84	550	275

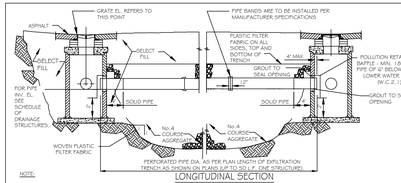
NOTE:

Perforations shall be uniformly spaced around the full periphery of the pipe to within 4" of each end of each length of pipe. The number of perforations per linear foot of pipe and the diameter of the perforations shall be as shown on the above table.

STANDARD STORM DRAINAGE DETAIL

ON-SITE EXFILTRATION TRENCH (PIPE CULVERT NOTES)

SHEET 2 OF 2



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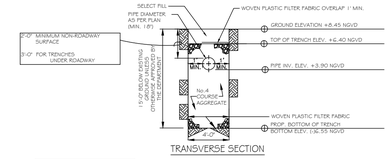
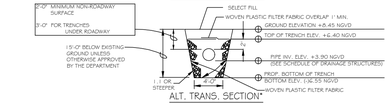


TRANSVERSE SECTION



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STANDARD STORM DRAINAGE DETAIL

OFF-SITE EXFILTRATION TRENCH (FRENCH DRAIN)

SHEET 1 OF 2

NOTES - CONTINUED

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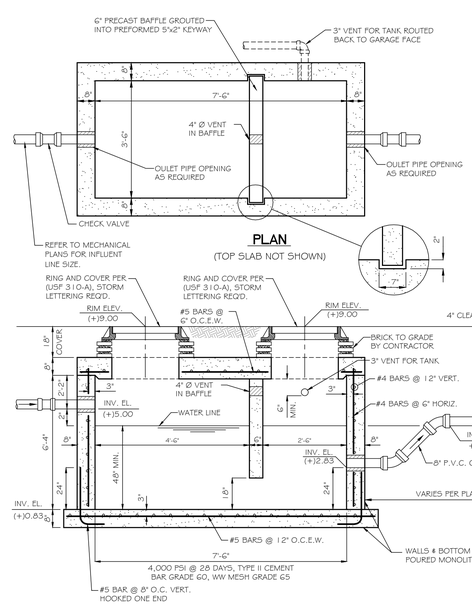
STANDARD STORM DRAINAGE DETAIL

OFF-SITE EXFILTRATION TRENCH (PIPE CULVERT NOTES)

SHEET 2 OF 2



NOTES:

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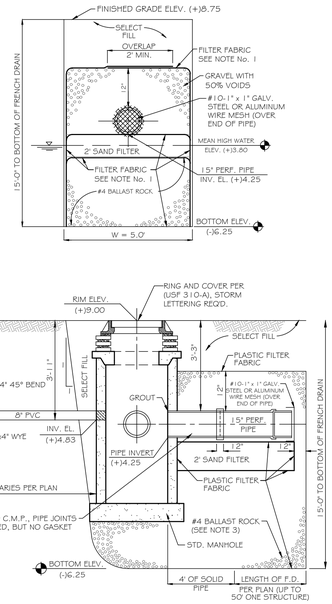
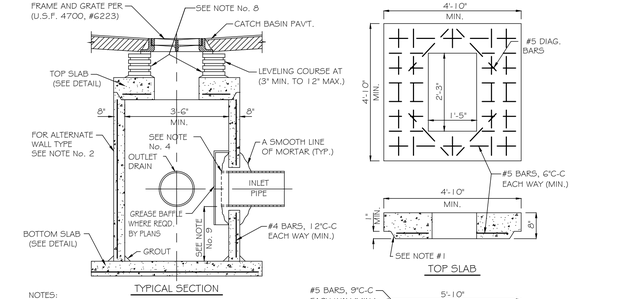
2. MAXIMUM EXFILTRATION WHICH CAN BE USED IN CALCULATING FRENCH DRAIN LENGTH IS
3. THE MINIMUM PIPE DIAMETER FOR DRAINAGE SYSTEM WITHIN THE ROADWAY RIGHT-OF-WAY SHALL BE 18 INCHES. 15 INCH PIPE MAY BE USED IN PRIVATE ROADWAYS.
4. NO TREES TO BE PLANTED WITHIN 5 FEET OF THE EDGE OF THE TRENCH.
   TYPE "P" STRUCTURE IS RECOMMENDED FOR SMALL DRAINAGE AREAS LESS THAN 0.2 ACRE PER CATCH BASIN.
5. TYPE "J" S.D. STRUCTURE IS RECOMMENDED FOR AREAS LARGER THAN 0.2 ACRE
6. ALL INVERTS OF PERFORATED PIPES TO BE AT MEAN HIGH OCTOBER WATER TABLE.
7. PIPES CAN BE ALLOWED BELOW MEAN HIGH OCTOBER WATER TABLE DUE TO UTILITY CONFLICTS OR IN ORDER TO PROVIDE THE REQUIRED MINIMUM COVER.
8. NEOPRENE GASKET REQUIRED FOR BAFFLES ON ALL CONTACT EDGES MOUNTED ON WALL.
9. OIL AND GREASE BAFFLE IS REQUIRED FOR ALL DRAINAGE STRUCTURES PRECEDING AN OUTFALL OR EXFILTRATION TRENCHES. IN PROJECTS LOCATED IN WELLFIELD PROTECTION AREAS, ROAD INTERSECTIONS WITH TRAFFIC LIGHTS, AND LARGE PARKING LOTS WHICH INCLUDE 15 PARKING SPACES OR MORE.
10. OIL AND GREASE BAFFLE MAY BE WAIVED IN SUBURBAN RESIDENTIAL AREAS.
11. AFTER THE BALLAST ROCK HAS BEEN PLACED TO THE PROPER ELEVATION IT SHALL BE CAREFULLY VIBRATED OR COMPACTED IN ORDER TO ALLOW FOR INITIAL SETTLEMENT THAT MAY OCCOR. IF IT DOES TAKE PLACE, ADDITIONAL BALLAST ROCK WILL BE ADDED TO RESTORE THE BALLAST ROCK TO THE PROPER ELEVATION SO THAT THE EXFILTRATION TRENCH CAN BE COMPLETED IN ACCORDANCE WITH THE DETAIL.

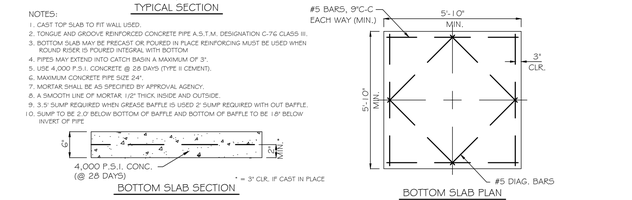
A/C8 TYPICAL DETAIL
OIL INTERCEPTOR and EXFILTRATION TRENCH DETAIL
NOT TO SCALE



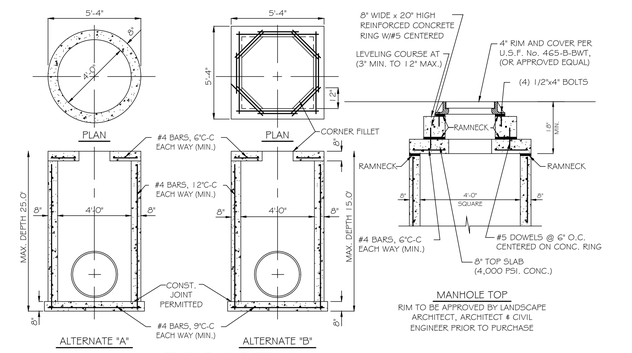


NOTES:

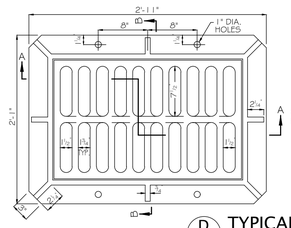
1. CAST TOP SLAB TO FIT WALL USED.
2. TONGUE AND GROOVE REINFORCED CONCRETE PIPE A.S.T.M. DESIGNATION C-76 CLASS III.
3. BOTTOM SLAB MAY BE PRECAST OR POURED IN PLACE REINFORCING MUST BE USED WHEN ROUND RISER IS POURED INTEGRAL WITH BOTTOM
4. PIPES MAY EXTEND INTO CATCH BASIN A MAXIMUM OF 3".
5. USE 4,000 P.S.I. CONCRETE @ 28 DAYS (TYPE II CEMENT).
6. MAXIMUM CONCRETE PIPE SIZE 24".
7. MORTAR SHALL BE AS SPECIFIED BY APPROVAL AGENCY.
8. A SMOOTH LINE OF MORTAR 1/2" THICK INSIDE AND OUTSIDE.
9. 3.5" SLUMP REQUIRED WHEN GREASE BAFFLE IS USED 2" SLUMP REQUIRED WITH OUT BAFFLE.
10. SUMP TO BE 2.0' BELOW BOTTOM OF BAFFLE AND BOTTOM OF BAFFLE TO BE 1.6' BELOW INVERT OF PIPE



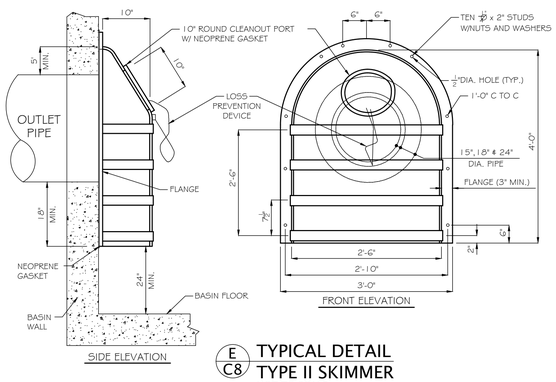
B/C8 TYPICAL DETAIL
PRECAST CATCH BASIN
NOT TO SCALE



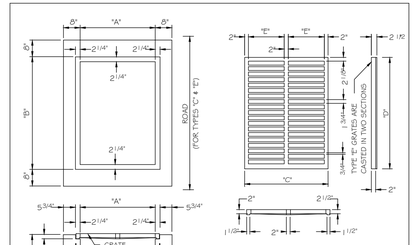
C/C8 TYPICAL DETAIL
TYPE "P" MANHOLE W/REINFORCED RISER
NOT TO SCALE



D/C8 TYPICAL DETAIL
FRAME & GRATE
NOT TO SCALE



E/C8 TYPICAL DETAIL
TYPE II SKIMMER
NOT TO SCALE



TYPE INLET	DIMENSIONS "A"	"B"	"C"	"D"	"E"	MAX SIZE R.C.P.
"C"	2'-0"	3'-1"	2'-4"	3'-0"	1'-1"	18"
"E"	3'-0"	4'-6"	3'-4"	4'-4"	1'-5"	30"
"E MOD*"	3'-0"	4'-6"	3'-4"	4'-4"	1'-5"	48"

NOTE: SEE STD. PLAN FOR DETAILS WHEN USING THIS TYPE INLET WITH VALLEY GUTTER ROAD SECTIONS.

BEVELED EDGES
ALL EXPOSED CORNERS AND EDGES TO BE CHAMFERED 3/4".

FOUNDATION MATERIAL:
WHERE MATERIAL UNSATISFACTORY FOR FOUNDATION IS ENCOUNTERED AT FLOW LINE, OMIT FLOOR AND CARRY WALLS DOWN TO SATISFACTORY FOUNDATION. BACKFILL TO FLOW LINE WITH CLEAN SAND.

GRATES:
CAST IRON GRATES IN ACCORDANCE WITH FLA. D.O.T. SPECS.

*INLET TYPES:
INLETS ARE TO BE AS SHOWN HEREON. TYPE "E MOD." IS A TYPE "E" TURNED 90° TO RECEIVE R.C.P LARGER THAN 48" DIA. SHALL BE IN ACCORDANCE WITH FLA. F.D.O.T STANDARDS.

MATERIAL:
INLET WALLS AND FOOTING MAY EITHER BE POURED IN-PLACE 2500 LB. CONC., OR PRECAST CLASS "A" 3000 LB CONC., OR STANDARD MANHOLE BRICK (NO BLOCK) WITH 1/2" PLASTER (NO LIME) WITH 8" PRECAST CAP.

STANDARD ENGINEERING DETAILS & SPECIFICATIONS
STORM SEWER INLETS (TYPES C & E)

DATE	SCALE	DRAWING NO.
Feb. 2010	N.T.S	D-7

This item has been digitally signed and sealed by Rodrigo Bermudez, PE on the date adjacent to the seal.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

RODRIGO BERMUDEZ LICENSE No. 98720 STATE OF FLORIDA PROFESSIONAL ENGINEER

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FORTIN, LEAVY, SKILES, INC.
CONSULTING ENGINEERS, SURVEYORS & MAPPERS
FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 00003653
180 Northeast 168th. Street / North Miami Beach, Florida. 33162
Phone: 305-653-4493 / Email fls@flssurvey.com

DRAINAGE DETAIL PLAN

PAVING AND DRAINAGE SET

PRIME SQUARE DORAL

7100-7200 NW 102nd Ave, Doral, FL 33178

Job. No.	Dwg. No.	Date
247005	3024-025	11/22/2024
Cad. No. 240595CP	Scale N.T.S.	Sheet C-09
Ref. Dwg. S.B.O.	Drawn By. RB	11 of 13

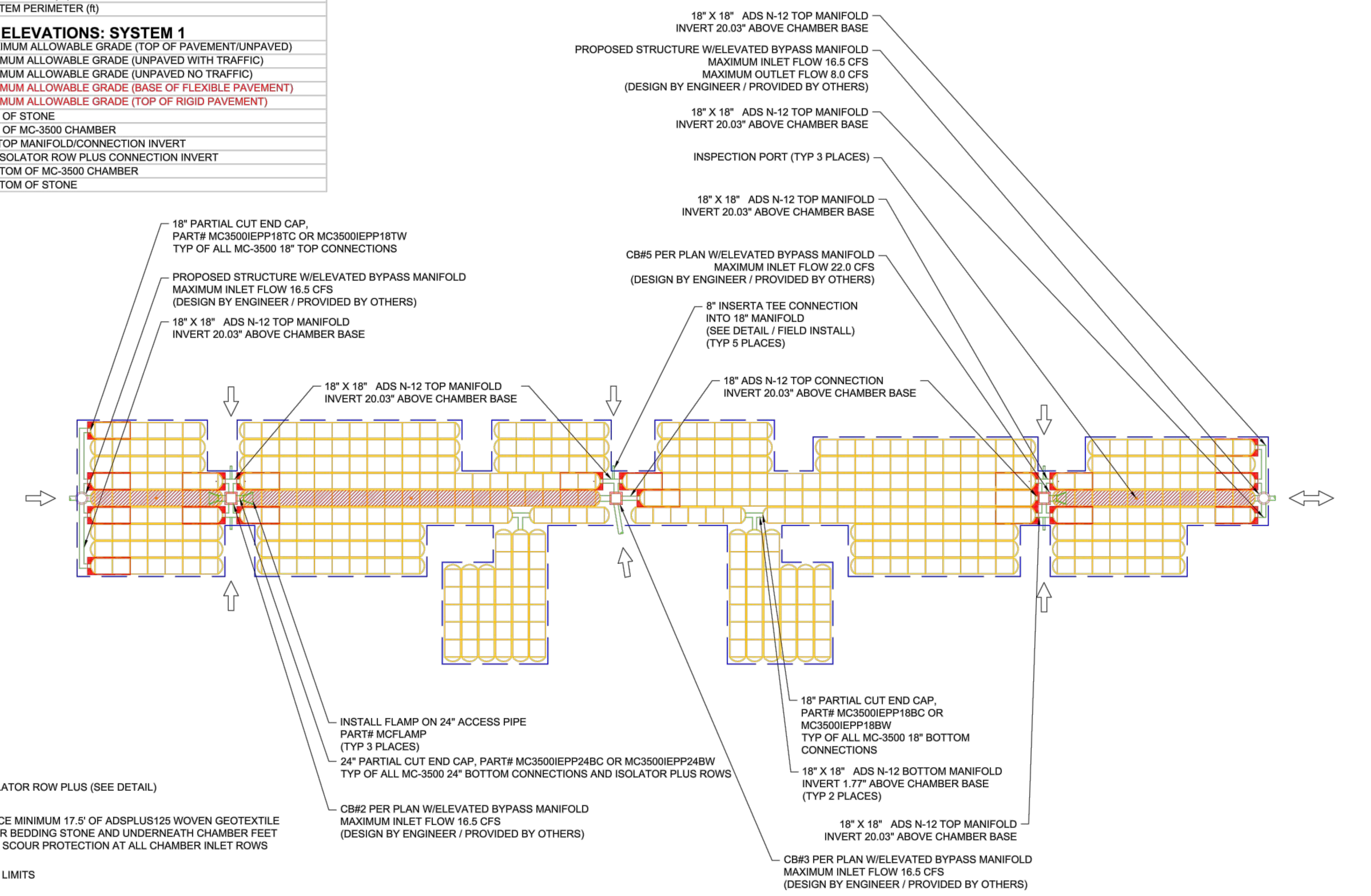
CONCEPTUAL LAYOUT: SYSTEM 1

479	STORMTECH MC-3500 CHAMBERS
108	STORMTECH MC-3500 END CAPS
12	STONE ABOVE (in)
9	STONE BELOW (in)
40	% STONE VOID
93,500	**INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)**
27696	SYSTEM AREA (ft²)
1713	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS: SYSTEM 1

16.40	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
10.40	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
9.90	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
9.90	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
9.90	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
9.40	TOP OF STONE
8.40	TOP OF MC-3500 CHAMBER
6.32	18" TOP MANIFOLD/CONNECTION INVERT
4.82	24" ISOLATOR ROW PLUS CONNECTION INVERT
4.65	BOTTOM OF MC-3500 CHAMBER
3.90	BOTTOM OF STONE

NOTES
- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
- **NOT FOR CONSTRUCTION**: THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.



ISOLATOR ROW PLUS (SEE DETAIL)

PLACE MINIMUM 17.5' OF ADSPLUS125 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS

BED LIMITS

PRIME SQUARE
DORAL, FL
DATE: 03/06/25 | DRAWN: CJM
PROJECT #: S458736 | CHECKED: XXX

DATE	DRWN	CHKD	DESCRIPTION
07/11/25	AVM	--	REVISED TO ADD BED 3
06/06/2025	NAL	JPR	REVISED PER MARKUP , ADD 2ND BED

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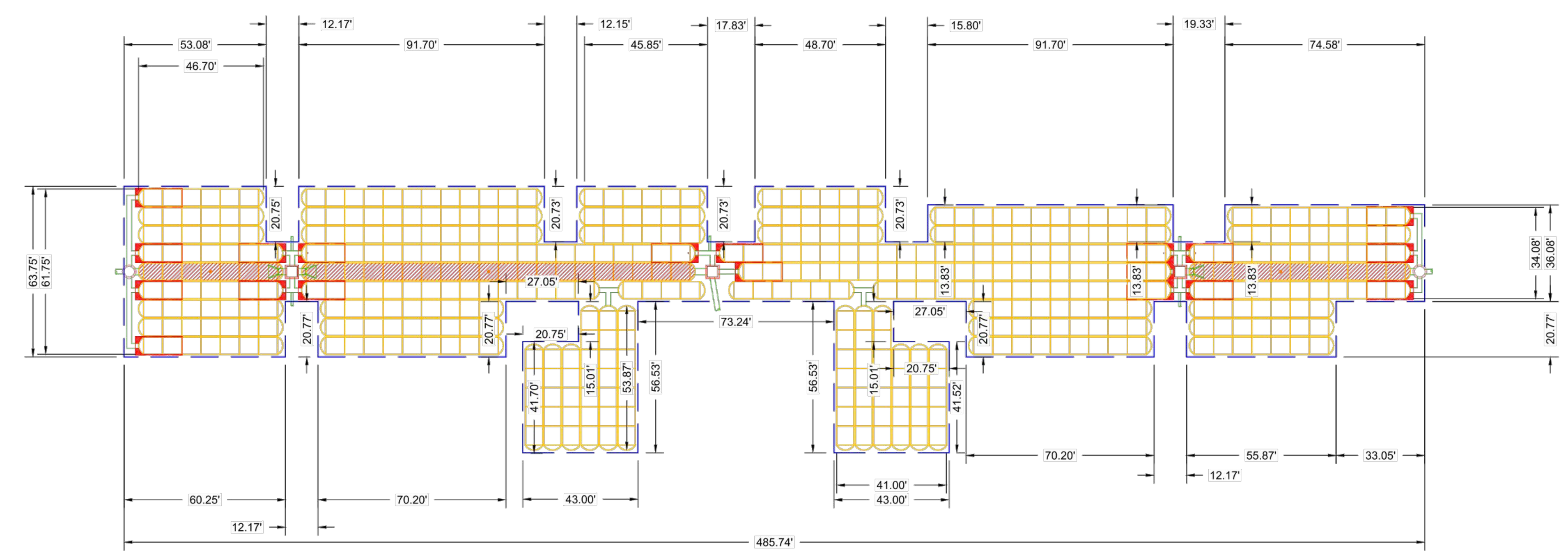
ADS 4640 TRUEMAN BLVD HILLIARD, OH 43026

0 40' 80'

SHEET 2 OF 8



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0 40' 80'

SHEET 3 OF 8

CONCEPTUAL LAYOUT: SYSTEM 2

15	STORMTECH MC-3500 CHAMBERS
6	STORMTECH MC-3500 END CAPS
12	STONE ABOVE (in)
9	STONE BELOW (in)
40	% STONE VOID
3,292	**INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)**
1022	SYSTEM AREA (ft²)
136	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS: SYSTEM 2

16.40	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
10.40	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
9.90	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
9.90	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
9.90	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
9.40	TOP OF STONE
8.40	TOP OF MC-3500 CHAMBER
6.32	18" TOP MANIFOLD/CONNECTION INVERT
5.15	INSERTA TEE SIDE INLET CONNECTION INVERT
4.82	24" ISOLATOR ROW PLUS CONNECTION INVERT
4.65	BOTTOM OF MC-3500 CHAMBER
3.90	BOTTOM OF STONE

NOTES
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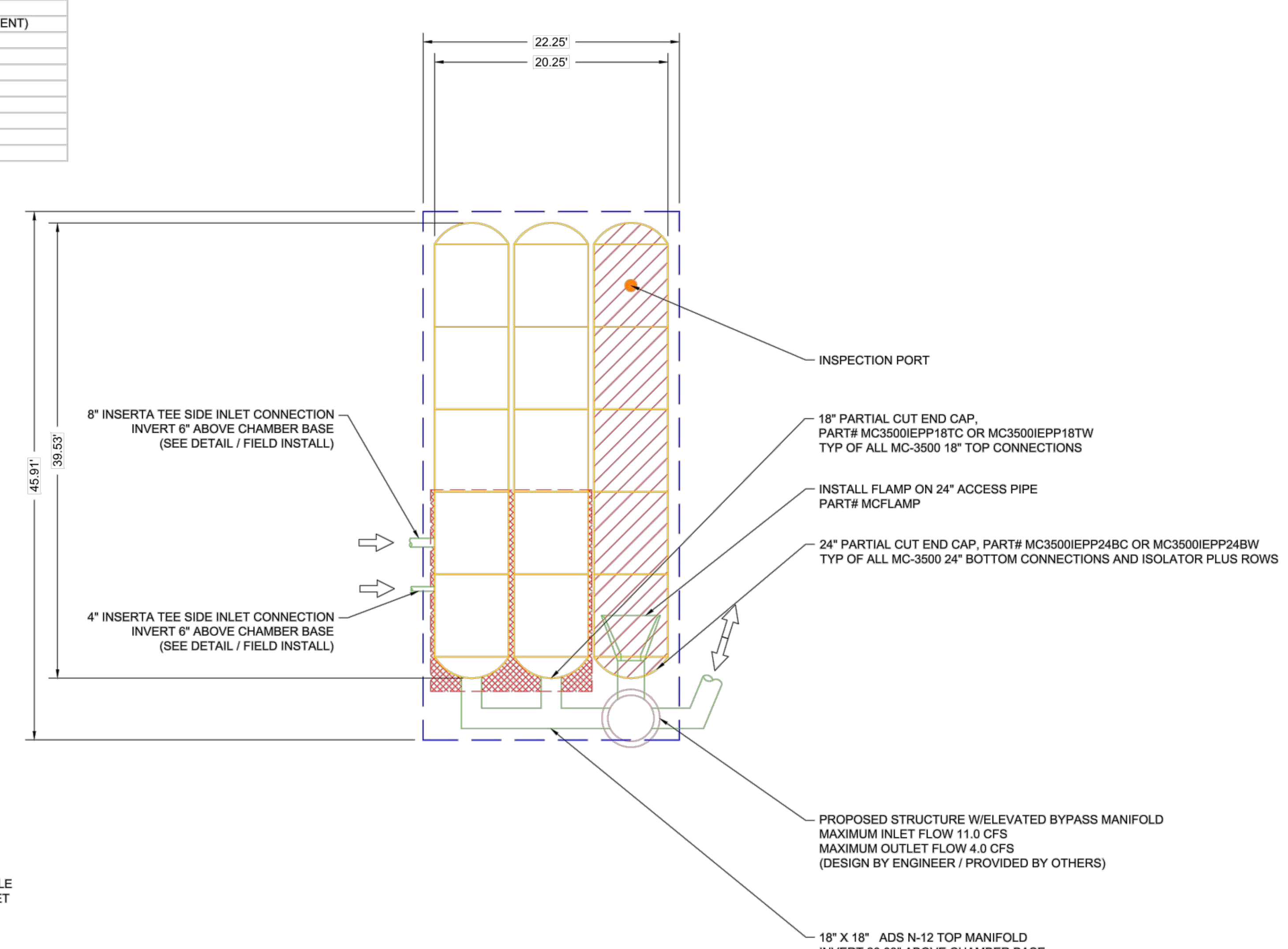

ISOLATOR ROW PLUS (SEE DETAIL)

PLACE MINIMUM 17.5' OF ADSPLUS125 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS

BED LIMITS

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DORAL, FL
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ADS 4640 TRUEMAN BLVD HILLIARD, OH 43026

0 10' 20'

SHEET 4 OF 8

CONCEPTUAL LAYOUT: SYSTEM 3

67	STORMTECH MC-3500 CHAMBERS
6	STORMTECH MC-3500 END CAPS
12	STONE ABOVE (in)
9	STONE BELOW (in)
40	% STONE VOID
13,736	**INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)**
4210	SYSTEM AREA (ft²)
1017	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS: SYSTEM 3

16.40	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
10.40	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
9.90	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
9.90	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
9.90	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
9.40	TOP OF STONE
8.40	TOP OF MC-3500 CHAMBER
4.82	24" ISOLATOR ROW PLUS CONNECTION INVERT
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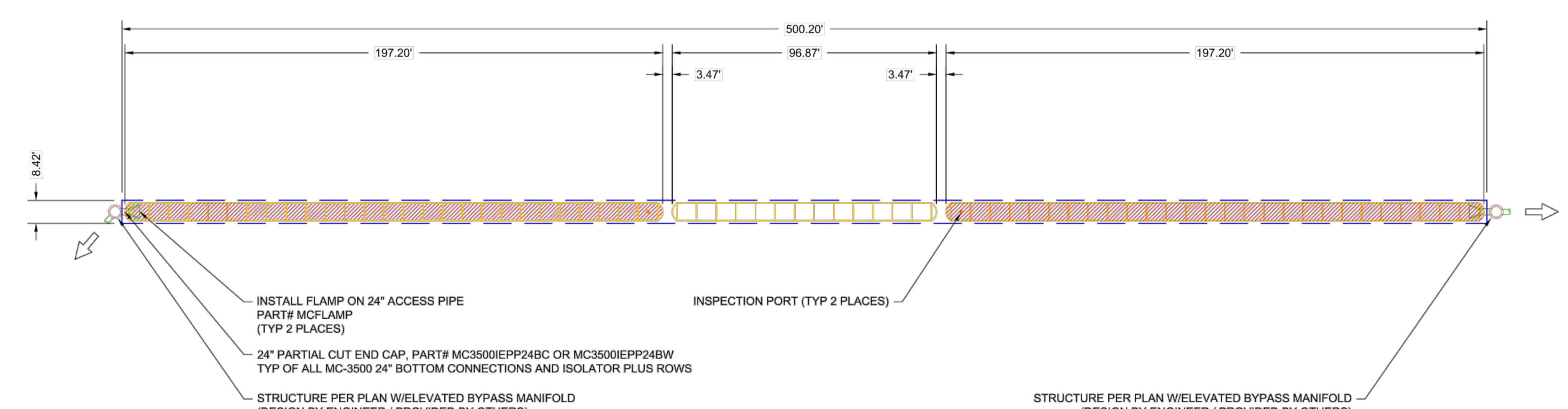

ISOLATOR ROW PLUS (SEE DETAIL)

PLACE MINIMUM 17.5' OF ADSPLUS125 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS

BED LIMITS

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DORAL, FL
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0 40' 80'

SHEET 5 OF 8

This item has been digitally signed and sealed by Rodrigo Bermudez, PE on the date adjacent to the seal.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

RODRIGO BERMUDEZ ★ LICENSE No. 98720 ★ STATE OF FLORIDA ★ PROFESSIONAL ENGINEER

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No.	Date	Revision Description
A	07/29/2025	CUT & FILL APPLICATION SET
B	07/29/2025	REVISED PER COMMENTS FROM CITY OF DORAL
C	09/23/2025	REVISED PER COMMENTS FROM CITY OF DORAL

FORTIN, LEAVY, SKILES, INC.
CONSULTING ENGINEERS, SURVEYORS & MAPPERS
FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 00003653
180 Northeast 168th. Street / North Miami Beach, Florida. 33162
Phone: 305-653-4493 / Email fls@flssurvey.com

ADS STORMTECH MC-3500 DETAILS
PAVING AND DRAINAGE SET

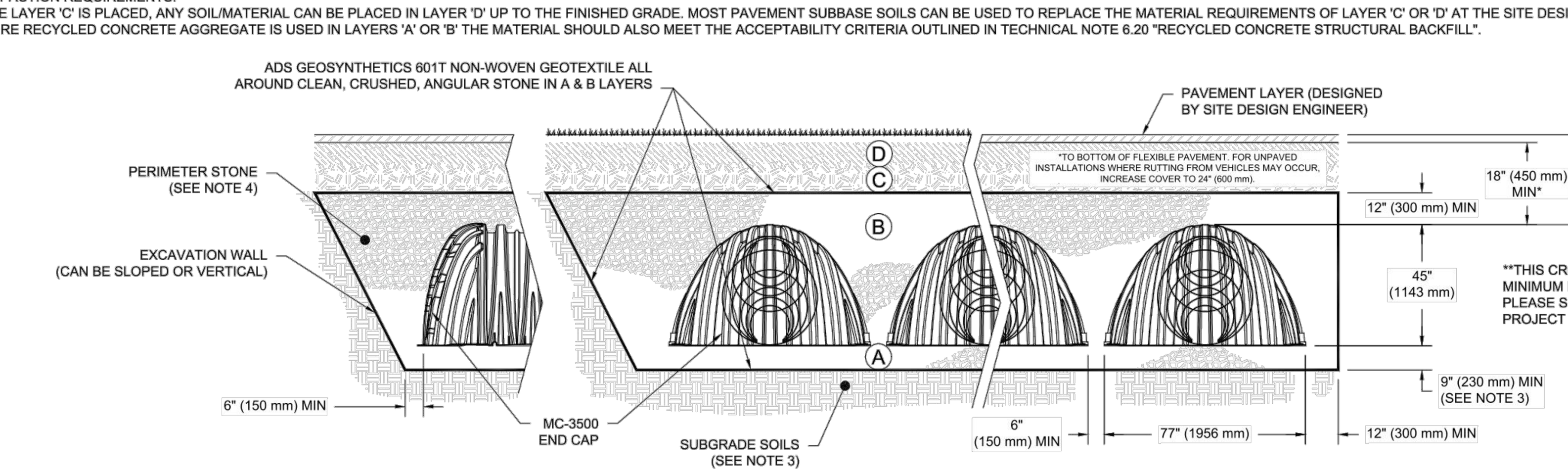
PRIME SQUARE DORAL
7100-7200 NW 102nd Ave, Doral, FL 33178

Job. No. 247005	Dwg. No. 3024-025	Date 11/22/2024
Cad. No. 240595CP	Scale N.T.S.	Sheet C-10
Ref. Dwg. S.B.O.	Drawn By. RB	12 of 13

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

MATERIAL LOCATION		DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 18" (450 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



**THIS CROSS SECTION DETAIL REPRESENTS MINIMUM REQUIREMENTS FOR INSTALLATION. PLEASE SEE THE LAYOUT SHEET(S) FOR PROJECT SPECIFIC REQUIREMENTS.

NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
2. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/FT/%. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

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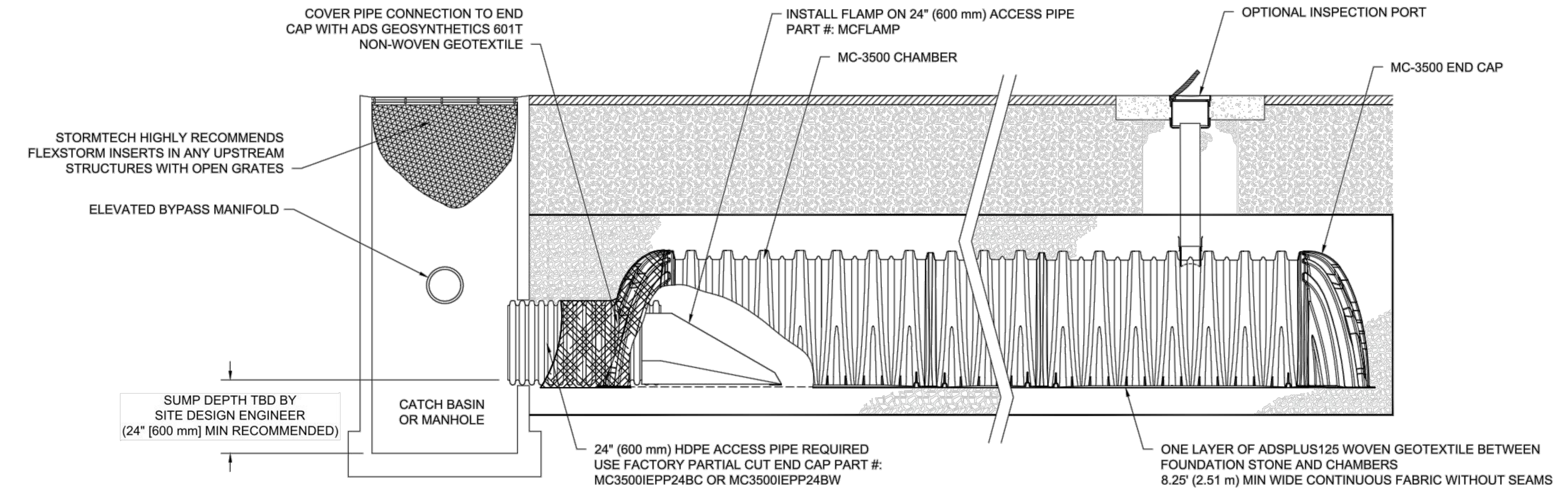
SHEET 6 OF 8



MC-3500 ISOLATOR ROW PLUS DETAIL
NTS

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

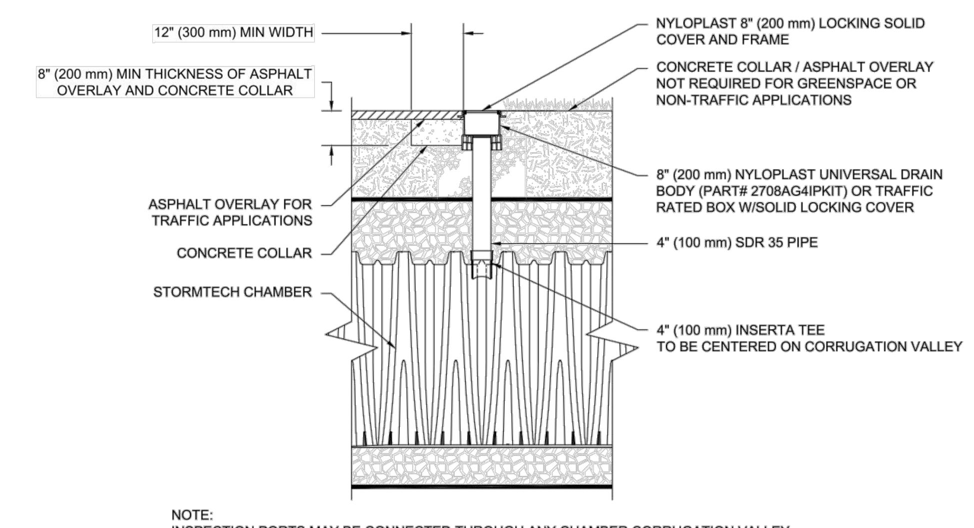
STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION VALLEY.

4" PVC INSPECTION PORT DETAIL (MC SERIES CHAMBER)
NTS

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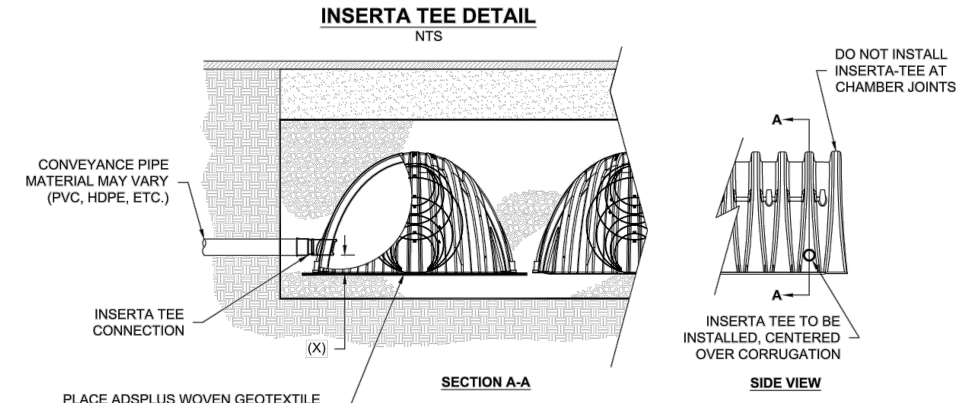
SHEET 7 OF 8

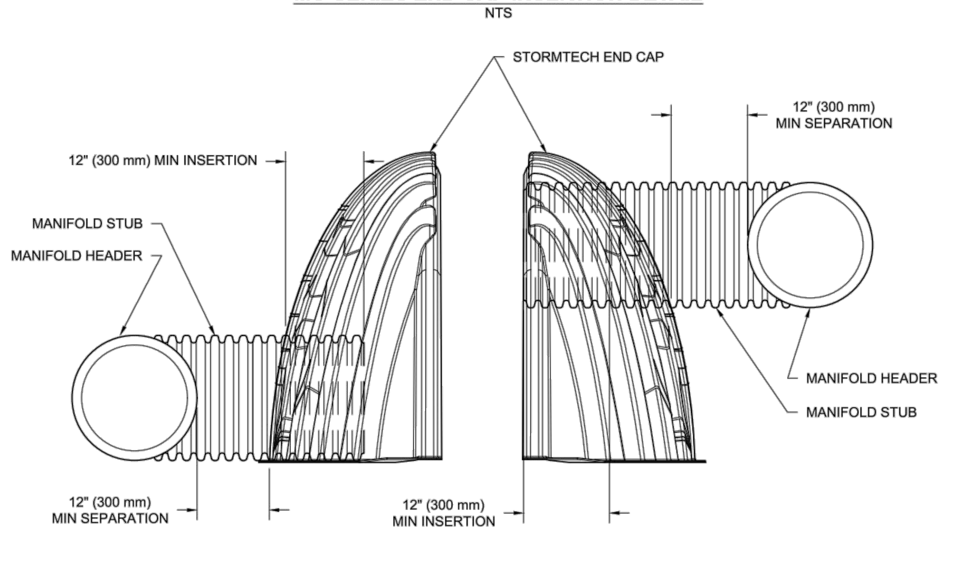
INSERTA TEE DETAIL
NTS



CHAMBER	MAX DIAMETER OF INSERTA TEE	HEIGHT FROM BASE OF CHAMBER (X)
SC-310	6" (150 mm)	4" (100 mm)
SC-740	10" (250 mm)	4" (100 mm)
SC-800	10" (250 mm)	4" (100 mm)
DC-780	10" (250 mm)	4" (100 mm)
MC-3500	12" (300 mm)	6" (150 mm)
MC-4500	12" (300 mm)	8" (200 mm)
MC-7200	12" (300 mm)	8" (200 mm)
INSERTA TEE FITTINGS AVAILABLE FOR SDR 26, SDR 35, SCH 40 IPS GASKETED & SOLVENT WELD, N-12, HP STORM, C-900 OR DUCTILE IRON		

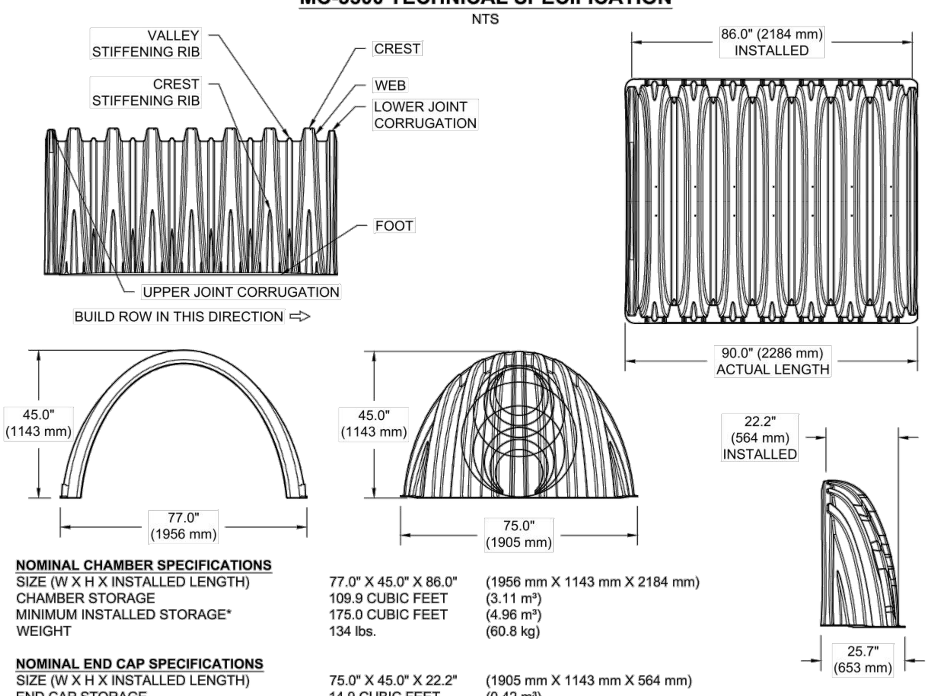
NOTES:
- PART NUMBERS WILL VARY BASED ON INLET PIPE MATERIALS. CONTACT STORMTECH FOR MORE INFORMATION.
- CONTACT ADS ENGINEERING SERVICES IF INSERTA TEE INLET MUST BE RAISED AS NOT ALL INVERTS ARE POSSIBLE.

MC-SERIES END CAP INSERTION DETAIL
NTS



NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.

MC-3500 TECHNICAL SPECIFICATION
NTS



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	77.0" X 45.0" X 86.0"	(1956 mm X 1143 mm X 2184 mm)
CHAMBER STORAGE	109.9 CUBIC FEET	(3.11 m³)
MINIMUM INSTALLED STORAGE*	175.0 CUBIC FEET	(4.96 m³)
WEIGHT	134 lbs.	(60.8 kg)

NOMINAL END CAP SPECIFICATIONS

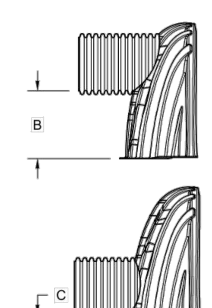
SIZE (W X H X INSTALLED LENGTH)	75.0" X 45.0" X 22.2"	(1905 mm X 1143 mm X 564 mm)
END CAP STORAGE	14.9 CUBIC FEET	(0.42 m³)
MINIMUM INSTALLED STORAGE*	45.1 CUBIC FEET	(1.28 m³)
WEIGHT	49 lbs.	(22.2 kg)

*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION, 6" (152 mm) STONE BETWEEN CHAMBERS, 6" (152 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY.

PARTIAL CUT HOLES AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PARTIAL CUT HOLES AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W"
END CAPS WITH A WELDED CROWN PLATE END WITH "C"

PART #	STUB	B	C
MC3500IEPP06T	6" (150 mm)	33.21" (844 mm)	---
MC3500IEPP06B		---	0.66" (17 mm)
MC3500IEPP08T	8" (200 mm)	31.16" (791 mm)	---
MC3500IEPP08B		---	0.81" (21 mm)
MC3500IEPP10T	10" (250 mm)	29.04" (738 mm)	---
MC3500IEPP10B		---	0.93" (24 mm)
MC3500IEPP12T	12" (300 mm)	26.36" (670 mm)	---
MC3500IEPP12B		---	1.35" (34 mm)
MC3500IEPP15T	15" (375 mm)	23.39" (594 mm)	---
MC3500IEPP15B		---	1.50" (38 mm)
MC3500IEPP18TC	18" (450 mm)	20.03" (509 mm)	---
MC3500IEPP18TW			
MC3500IEPP18BC		---	1.77" (45 mm)
MC3500IEPP18BW			
MC3500IEPP24TC	24" (600 mm)	14.48" (368 mm)	---
MC3500IEPP24TW			
MC3500IEPP24BC		---	2.06" (52 mm)
MC3500IEPP24BW			
MC3500IEPP30BC	30" (750 mm)	---	2.75" (70 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL



CUSTOM PARTIAL CUT INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-3500 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

PRIME SQUARE
DORAL, FL
DATE: 03/06/25 | DRAWN: CJM
PROJECT #: S458736 | CHECKED: XXX

DATE	DRWN	CHKD	DESCRIPTION
07/11/25	AVM	---	REVISED TO ADD BED 3
06/06/2025	NAL	JPR	REVISED PER MARKUP , ADD 2ND BED

StormTech® Chamber System
1-800-821-6710 | WWW.STORMTECH.COM
ADS 4640 TRUEMAN BLVD HILLIARD, OH 43026

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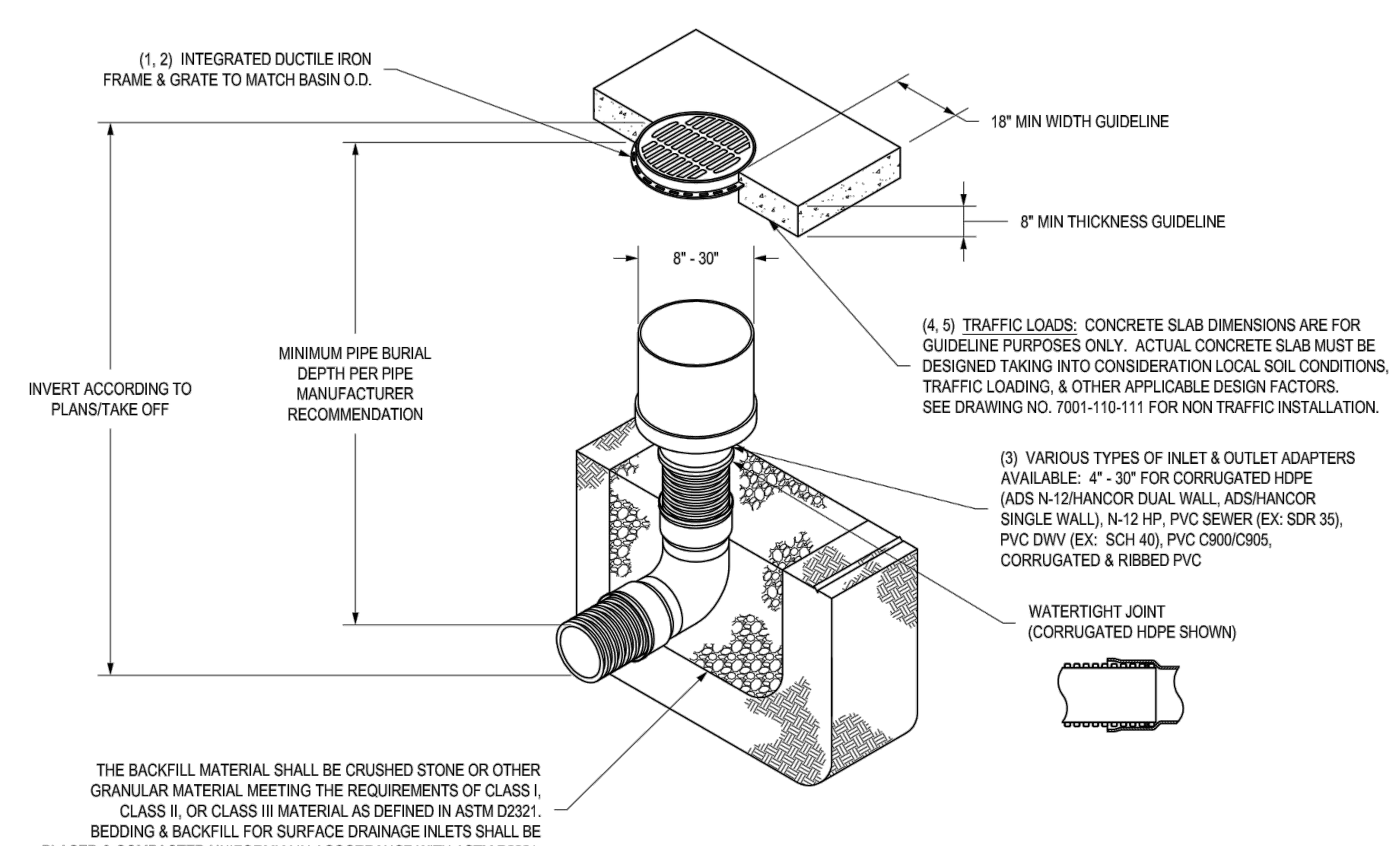
SHEET 8 OF 8

NYLOPLAST INLINE DRAIN WITH STANDARD GRATE



1 - 8" - 30" STANDARD GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - 12" - 30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05. 8" & 10" STANDARD GRATES FIT DIRECTLY ONTO INLINE DRAINS SEE DRAWING NO. 7003-110-000 & 7003-110-001.
3 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 24").
4 - 12" - 30" STANDARD GRATES SHALL MEET H-20 LOAD RATING.
5 - 8" & 10" STANDARD GRATES ARE RATED FOR LIGHT DUTY APPLICATIONS ONLY; NO CONCRETE COLLAR NEEDED FOR LIGHT DUTY RATING.

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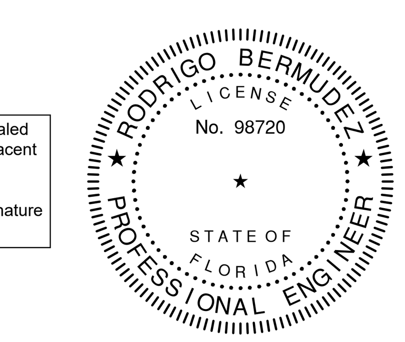
DRAWN BY EBC | DATE 1-23-06 | REVISED BY NMH | DATE 03-15-16 | DWG SIZE A | SCALE 1:40 | SHEET 1 OF 1
MATERIAL
PROJECT NO./NAME
ADS Nyloplast — 3130 VERONA AVE, BUFORD, GA 30518, PHN (770) 932-2443, FAX (770) 932-2490, www.nyloplast-us.com
TITLE: INLINE DRAIN WITH STANDARD GRATE QUICK SPEC INSTALLATION DETAIL
DWG NO. 7003-110-022 | REV J

This item has been digitally signed and sealed by Rodrigo Bermudez, PE on the date adjacent to the seal.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



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No.	Date	Revision Description
A	07/29/2025	CUT & FILL APPLICATION SET
B	07/29/2025	REVISED PER COMMENTS FROM CITY OF DORAL
C	09/23/2025	REVISED PER COMMENTS FROM CITY OF DORAL

FORTIN, LEAVY, SKILES, INC.
CONSULTING ENGINEERS, SURVEYORS & MAPPERS
FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 00003653
180 Northeast 168th. Street / North Miami Beach, Florida. 33162
Phone: 305-653-4493 / Email fls@flssurvey.com

ADS STORMTECH MC-3500 DETAILS
PAVING AND DRAINAGE SET

PRIME SQUARE DORAL
7100-7200 NW 102nd Ave, Doral, FL 33178

Job. No. 247005	Dwg. No. 3024-025	Date 11/22/2024
Cad. No. 240595CP	Scale N.T.S.	Sheet C-11
Ref. Dwg. S.B.O.	Drawn By. RB	13 of 13