

THE RESIDENCES OF BAL HARBOUR

PAVING AND DRAINAGE PLANS

Bal Harbour Village, Florida

FLOOD LEGEND

MIXED USE BUILDING

PROJECT NAME: THE RESIDENCES OF BAL HARBOUR

LEGAL: Lot 16, Ocean Front Section Of Bay Harbor, according to the plat thereof, as recorded in Plat Book 44, Page 27, of the Public Records of Miami-Dade County, Florida, and that area between the Easterly line of Lot 16 as shown on the aforementioned plat and the Erosion Control Line (entirely thereon), bordered on the North by the Northerly line of said Lot 16 extended Easterly to the Erosion Control Line, bordered on the South by the Southerly line of said Lot 16 extended Easterly to the Erosion Control Line.

ADDRESS: 10245 Collins Ave, Bal Harbour LOT/UNIT: BLOCK/BLDG:

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ADDRESS: LOT/UNIT: BLOCK/BLDG:

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CROWN OF ROAD ELEV.: +4.35 Avg. FT. NGVD. CROWN OF ROAD ELEVATION WAS TAKEN FROM A CERTIFIED SURVEY PREPARED BY: Fortin, Leavy, Skiles, Inc. PLS. LIC.# 13633 SURVEYOR'S NAME.

DRAINAGE PLANS SHALL BE ATTACHED (P.S.) ADRES IMPROVING PLANS SHALL BE STAMP WITH THE DRAIN/ WATER CONTROL SECTION APPROVAL.

DEM/INC- SURFACE STORMWATER PERMIT (COPY ATTACHED)

SF/MD - 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)

	CATCH BASIN ELEVATION	RETENTION/SWALE AREA ELEVATION
PROPOSED	FT. NGVD	FT. NGVD
	+5.00 NGVD	N/A

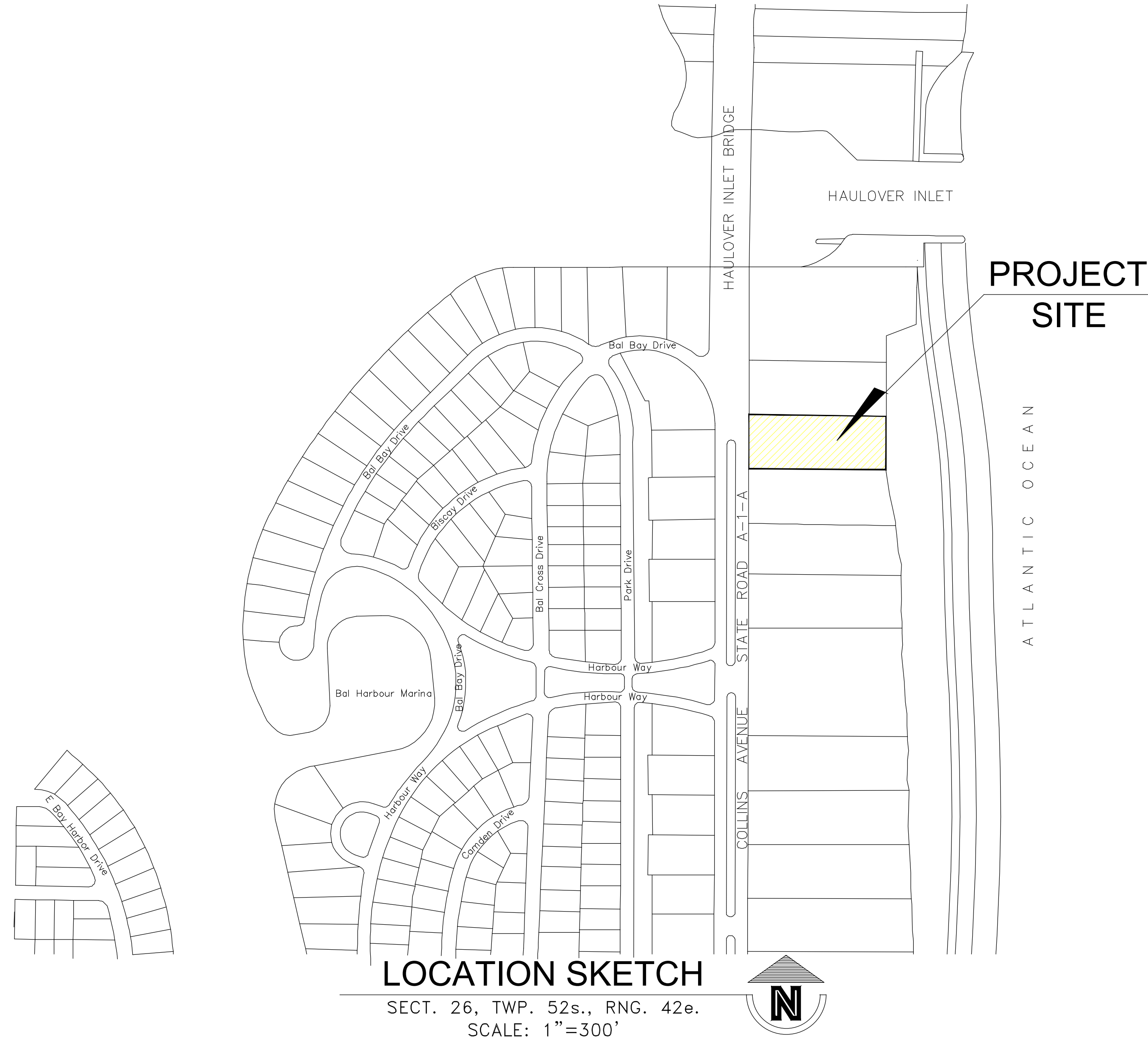
HAVE THESE SITES OR OTHER PORTIONS OF THESE PROPERTIES BEEN GRANTED A CLOMOR OR FINAL LOHRT. (CIRCLE ONE) YES, LOMP# NO

	Lowest Floor Elev.(Including lobby/sunken area)	Garage/ Storage Floor Elevation	Adjacent Grade Elevation (next to the wall of the structure)
PROPOSED	FT. NGVD	FT. NGVD	FT. NGVD
	+9'-8"	(-1)8'-8"	+9'-8"

BELOW GRADE PARKING/BASEMENT ELEV. -118.67 FT. NGVD

0'-0" = NGVD

* FLOOD PROOFING CERTIFICATE WILL BE PROVIDED BY ARCHITECT



NOTE: EXISTING CONDITIONS SHOWN UNLESS OTHERWISE NOTED.

LEGEND:

EXISTING			
	--SAN--	SANITARY SEWER MAIN	===== CONC. CURB
	--WM--	WATER MAIN	===== CURB & GUTTER
	--X" SS--	STORM SEWER LINE	===== EXISTING IMPROVEMENTS
	--COMM--	BURIED COMMUNICATION	===== TRAFFIC SIGN
	--X" GAS--	GAS MAIN	===== CONC. WHEEL STOP
	--BE--	UNDERGROUND ELECTRIC (FPL)	===== GROUND ELEVATION
	--BE--	UNDERGROUND ELECTRIC	===== CONCRETE WALKWAYS
	---OW---	OVERHEAD WIRES	----- CHAIN LINK FENCE
		EXISTING TREE (By Others)	
		EXISTING TREE (By Others)	

PROPOSED			
	5.50	PROPOSED GRADE	===== LIGHT POLE (BY OTHERS)
		FLOW DIRECTION ARROW	===== TYPE 'D' CONC. CURB
	67.77 (28'0" LT)	STATION OFFSET, LT.-LEFT, RT.-RIGHT	===== RELOCATED HANDHOLE (By Others)
		CONCRETE DRIVEWAYS	
		ASPHALT PAVEMENT	
		PROPOSED TREES (FOR REFERENCE ONLY. REFER TO ARCHITECTURAL LANDSCAPE PLANS) (TYP.)	

ABBREVIATIONS

C	= CENTERLINE	P	= PROPERTY LINE
CL	= RIGHT OF WAY LINE	PL	= THERMOPLASTIC
Prop.	= PROPOSED	Perf	= PERFORATED
Elev.	= ELEVATION	C.A.L.	= CORRUGATED ALUMINUM
TYP.	= TYPICAL	W.L.	= WATER LINE
F.C.O.	= FLUSH CLEAN OUT	Eg.	= EQUAL
Exist.	= EXISTING	Conc.	= CONCRETE
Inv.	= INVERT	M.H.	= MANHOLE
Cond.	= CONDENSATE	IE	= INVERT ELEVATION
P.I.V.	= POST INDICATOR VALVE	M.E.G.	= MATCH EXISTING GRADE
N.A.P.	= NOT A PART OF THESE PLANS	PRB	= POLLUTANT RETARDANT Baffle

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

SHEET INDEX

SHEET No.	TITLE
C1	COVER SHEET
C2	NOTES AND SPECIFICATIONS
C3	ADJACENT DRIVEWAY PLAN w/ 2021 FDOT AERIAL
C4	STORMWATER POLLUTION PREVENTION PLAN
C5	STORMWATER POLLUTION PREVENTION DETAILS
C6	DEMOLITION & EXISTING UTILITY PLAN
C7	DRIVEWAY, MARKING & SIGNAGE PLAN
C8	PAVING, GRADING & DRAINAGE PLAN
C9	WATER PLAN
C10	SEWER PLAN & DETAILS
C11 thru C16	PAVING & DRAINAGE DETAILS
C17	PASSENGER VEHICLE DRIVE ENTRY & EXIT EXHIBIT
C18	SU 30 TRUCK PATH EXHIBIT
C19	GARBAGE TRUCK DRIVE ENTRY & EXIT LOADING EXHIBIT

LEGAL DESCRIPTION:
 Lot 16, Ocean Front Section Of Bay Harbor, according to the plat thereof, as recorded in Plat Book 44, Page 27, of the Public Records of Miami-Dade County, Florida, and that area between the Easterly line of Lot 16 as shown on the aforementioned plat and the Erosion Control Line Easterly thereon; bordered on the North by the Northerly line of said Lot 16 extended Easterly to the Erosion Control Line; bordered on the South by the Southerly line of said Lot 16 extended Easterly to the Erosion Control Line.

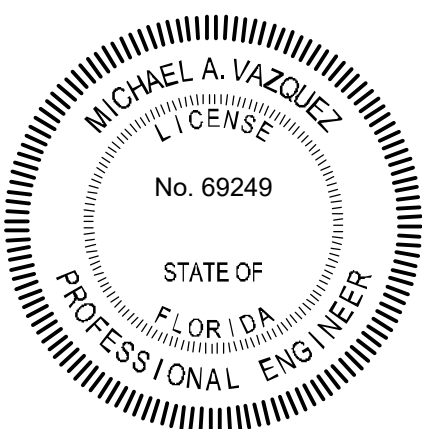
- Elevations shown hereon are relative to the National Geodetic Vertical Datum of 1929, based on Miami-Dade County Bench Mark No. E-320, Elevation +3.40 N.G.V.D. of 1929, located by PK-mail & aluminum washer in concrete catch basin in front of Carlton Terrace Condominium (47' North of South Entrance).

NOTE: UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED PER ATLASSES, AS-BUILTS, SOFT DIGS AND UTILITY LOCATE.

SSOC DESIGN TICKET: 1322004878
 DATED 05/12/2022

This item has been digitally signed and sealed by Michael A. Vazquez, 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.



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 / Fax 305-651-7152 / Email fls@flsurvey.com

Drawn By: REP
 Ref. Dwg.: 2019-0104-NGVD
 Date Plotted: 6/21/2022 11:00 AM

Cad. No.: 220177CP
 Scale: As Shown
 Job No.: 210930

10245 Collins Avenue
 Bal Harbour Village, Florida

THE RESIDENCES OF BAL HARBOUR
 CIVIL SITE PLAN - Cover Sheet

Date: 3022-006
 Dwg. No.: 3022-006
 Sheet: C1

I. APPLICABLE CODES:

- A. GENERAL:**
- EXCEPT AS PARTICULARLY NOTED ON THE PLANS, ALL PROPOSED CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF BAL HARBOUR VILLAGE, 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:**
- 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. SHALL BE STRICTLY OBSERVED.
 - 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:**
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLIANCE WITH THE STATE OF FLORIDA "TRENCH SAFETY ACT", AND ALL REQUIREMENTS OF O.S.H.A..
 - 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 REFERENCE TO THE SAFETY STANDARDS THAT WILL BE IN EFFECT DURING THE PERIOD OF CONSTRUCTION OF THE PROJECT.
 - WRITTEN ASSURANCES BY THE CONTRACTOR PERFORMING THE TRENCH EXCAVATION THAT SUCH CONTRACTOR WILL COMPLY WITH THE APPLICABLE TRENCH SAFETY STANDARDS.
 - A SEPARATE ITEM IDENTIFYING THE COST OF COMPLIANCE WITH THE APPLICABLE TRENCH SAFETY STANDARDS.
 - 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:**
- ALL ELEVATIONS ON THE PLANS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD).
 - ALL CONSTRUCTION STAKEOUT SHALL BE PERFORMED UNDER THE SUPERVISION OF A FLORIDA REGISTERED SURVEYOR.
 - 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 CONTRACTOR'S RESPONSIBILITY TO VERIFY THEIR LOCATION PRIOR TO CONSTRUCTION.
 - 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 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, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN FLORIDA PRIOR TO THE PURCHASER 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:**
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES AND PPL ELECTRICITY TO HIS EMPLOYEE AND SUBCONTRACTORS FOR THEIR USE DURING CONSTRUCTION.
 - 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:**
- 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.
 - 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.
 - 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:**
- 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:**
- 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 SWEEP BROOM CLEAN.
 - 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.
 - 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.
 - 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:**
- 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.
 - THE CONTRACTOR SHALL MAINTAIN ACCURATE AND COMPLETE RECORDS OF ALL WORK ITEMS COMPLETED.
 - 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.
 - 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 HAVE REVIEWED AND APPROVED THE "AS-BUILTS".
 - 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.
 - 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:**
- 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.
 - 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.
 - 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.
 - ALL SUBGRADE UNDER SIDEWALK AREAS SHALL HAVE A MINIMUM OF 6" COMPACTED SUBGRADE TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.
 - ALL FILL MATERIAL IN AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 90% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
 - A 2" BLANKET OF TOP SOIL SHALL BE PLACED OVER ALL AREAS TO BE SODDED.
 - SOD SHALL BE INSTALLED AND SPECIFIED AS SHOWN IN THE LANDSCAPED PLANS.
 - WHEN WORKING IN AND AROUND EXISTING DRAINAGE CANALS OR LAKES, APPROPRIATE SILT BARRIERS SHALL BE INSTALLED.
 - NO MUCK BLANKET IS TO BE PLACED ON THE BOTTOM OF RETENTION AREAS OR SWALES.
- B. ON-SITE:**
- ALL ORGANIC AND OTHER UNSUITABLE MATERIAL WITHIN THREE (3) FEET OF FINISHED GRADE AREAS TO BE PAVED SHALL BE REMOVED.
 - 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.
 - EROSION CONTROL TO BE PROVIDED BY THE CONTRACTOR PER DETAILS ON THE PLANS.

VII. STORM DRAINAGE NOTES:

- A. GENERAL:**
- EXISTING STORM DRAINAGE GRATES AND FRAMES AND MANHOLE COVERS AND RINGS THAT ARE TO BE REMOVED OR ADJUSTED, MAY BE REUSED ON THE SITE.
 - THE EXISTING DRAINAGE SYSTEM SHALL BE CLEANED AND/OR GRADED TO ENSURE PROPER FLOW AND FUNCTION.
 - 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:**
- HIGH DENSITY POLYETHYLENE PIPE (H.D.P.E.)
 - PIPE SHALL BE CORRUGATED SMOOTH BORE POLYETHYLENE PIPE (N-12 PRO LINK ULTRA) OR APPROVED EQUAL, MANUFACTURED IN CONFORMANCE WITH ASTM M294.
 - PIPE SHALL HAVE BUILT-IN BELL JOINT WITH RUBBER GASKET IN CONFORMANCE WITH ASTM F477.
 - PIPE COUPLING BANDS IF NEEDED SHALL BE SPLIT/SPLIT PREMIUM REQUIRING MAXIMUM PULL-APART RESISTANT.
 - CORRUGATED ALUMINUM PIPE (CAP):
 - ALUMINUM PIPE SHALL CONFORM TO AASHTO M196 FOR CIRCULAR CORRUGATED PIPE OF AASHTO M211 FOR HELICALLY CORRUGATED PIPE, AND SECTION 945, AS PER FOOT STANDARD SPECIFICATIONS.
 - MAKE FIELD JOINTS IN (CAP) WITH BANDS FABRICATED OF THE SAME ALLOY AS THE CULVERT PIPE AND CONFORMING TO THE REQUIREMENTS OF AASHTO M196.
 - GASKET THE BANDED JOINTS WITH A NEOPRENE GASKET OF THE DESIGN INDICATED TO SECURE A SOIL-TIGHT OR WATERTIGHT JOINT.

- POLYVINYL CHLORIDE PIPE (PVC):
 - PLASTIC PIPE SHALL CONFORM WITH ASTM D 3034, TYPE PSM, POLYVINYL CHLORIDE (PVC) MATERIAL; BELL AND SPIGOT STYLE SOLVENT SEALED END JOINTS.
- REINFORCED CONCRETE PIPE (RCP):
 - CONCRETE PIPE FOR STORM SEWERS SHALL CONFORM TO ASTM C 76, CLASS III WITH WALL TYPE A; BAR REINFORCEMENT.
 - ALL REINFORCED CONCRETE PIPES SHALL HAVE BELL AND SPIGOT END JOINTS, AS MODIFIED BY SECTION 941, FOOT STANDARD SPECIFICATIONS.
 - ALL REINFORCED CONCRETE PIPES SHALL HAVE RUBBER COMPRESSION GASKET JOINTS AS PER ASTM C443, UNLESS OTHERWISE SPECIFIED.
- MISCELLANEOUS:
 - TRENCH RESTORATION SHALL BE IN ACCORDANCE TO FOOT INDEX 125-001 FY 2019-20.
 - 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.
 - CATCH BASINS SHALL BE PRECAST MINIMUM 3000 PSI CONCRETE WITH REINFORCED STEEL PER ASTM A615.
- INSTALLATION:
 - PIPE SHALL BE PLACED ON STABLE GRANULAR MATERIAL FREE OF ROCK FORMATION OTHER FOREIGN FORMATIONS, AND CONSTRUCTED TO UNIFORM GRADE AND LINE.
 - BACKFILL MATERIAL SHALL BE WELL GRADED GRANULAR MATERIAL WELL TAMPED IN LAYERS NOT TO EXCEED SIX INCHES (6").
 - 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.
 - 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 2017 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:**
- 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.
 - ALL EXISTING PAVEMENT CUT OR DAMAGED BY CONSTRUCTION SHALL BE PROPERLY RESTORED AT THE CONTRACTOR'S EXPENSE.
 - WHERE PROPOSED PAVEMENT IS TO BE CONNECTED TO EXISTING PAVEMENT, THE EXISTING EDGE OF PAVEMENT SHALL BE SAW CUT.
 - EXISTING ASPHALT PAVEMENT THAT IS TO BE REMOVED SHALL BE TRUCKED OFF SITE BY THE CONTRACTOR FOR DISPOSAL AT AN APPROVED LOCATION.
 - ALL ACCESSIBLE ROUTES CANNOT EXCEED A RUNNING SLOPE OF 1:20 (5%) AND CURB CUT RAMPS AND RAMP CANNOT EXCEED A RUNNING SLOPE OF 1:12 (8.33%). RAMP THAT EXCEED 6" IN RISE REQUIRES HANDRAILS. ALL CROSS SLOPES CANNOT EXCEED A SLOPE 1:50 (2%).
- B. MATERIALS:**
- BASE COURSE SHALL BE CRUSHED LIMEROCK MIAMI OOILITE WITH A MINIMUM OF 70% CARBONATES OF CALCIUM AND MAGNESIUM (60% FOR LOCAL STREETS AND PARKING AREAS) AND A MINIMUM LIMEROCK BEARING RATIO 100.
 - 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.
 - PRIME COAT AND TACK COAT SHALL MEET F.D.O.T. STANDARDS.
 - PAVEMENT SECTION IS TO CONSIST OF A 2" ASPHALTIC CONCRETE PAVEMENT F.D.O.T. TYPE SP-9.5, IN TWO 1" LIFTS.
 - REINFORCED CONCRETE SLABS SHALL BE CONSTRUCTED OF CLASS I CONCRETE WITH A MINIMUM STRENGTH OF 3,000 PSI AND SHALL BE REINFORCED WITH A 6" x 6" No. 10 GAUGE MESH, OR AS SHOWN ON THE PLANS.
- C. INSTALLATION:**
- 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.
 - LIMEROCK BASE MATERIAL SHALL BE PLACED IN MAXIMUM 6" LIFTS. BASES GREATER THAN 6" SHALL BE PLACED IN TWO OR MORE EQUAL LIFTS.
 - PRIME COAT SHALL BE PLACED ON ALL LIMEROCK BASES IN ACCORDANCE WITH F.D.O.T. STANDARDS.
 - TACK COAT SHALL BE PLACED AS REQUIRED IN ACCORDANCE WITH F.D.O.T. STANDARDS.
- D. TESTING:**
- ALL SUBGRADE, LIMEROCK AND ASPHALT TESTS REQUIRED SHALL BE TAKEN AT THE DIRECTION OF THE ENGINEER OF RECORD AND/OR THE PERMITTING AGENCY.
 - 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.
 - 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. CONCRETE PAVERS INSTALLATION:

- A.** SPREAD THE BEDDING MATERIAL EVENLY OVER THE BASE COURSE AND SCREED TO PLAN THICKNESS, NOT TO EXCEED A THICKNESS OF 1 1/2 INCH. DO NOT DISTURB THE SCREEDDED BEDDING MATERIAL. ENSURE PLACEMENT OF SUFFICIENT BEDDING MATERIAL TO STAY AHEAD OF THE LAID CONCRETE PAVERS. DO NOT USE THE BEDDING MATERIAL TO FILL DEPRESSIONS IN THE BASE COURSE.
- B.** LAY CONCRETE PAVERS IN THE PATTERNS SHOWN IN THE HARDSCAPE PLANS (BY OTHERS, NOT PART OF THE CIVIL PLANS) AND MAINTAIN STRAIGHT PATTERN LINES.
- C.** JOINTS BETWEEN THE CONCRETE PAVERS, ON AVERAGE, WILL BE BETWEEN 1/16 TO 3/16 INCH WIDE.
- D.** FILL GAPS AT THE EDGES OF THE PAVED AREA WITH CUT OR EDGE CONCRETE PAVERS.
- E.** WHEN UTILIZING BEDDING AND JOINT SAND:
 - USE A LOW AMPLITUDE VIBRATOR (CAPABLE OF 5,000 FOOT-POUNDS WITH 7-100 HZ FREQUENCIES) TO VIBRATE AND COMPACT CONCRETE PAVERS INTO BEDDING SAND.
 - VIBRATE THE CONCRETE PAVERS, SWEEPING DRY JOINT SAND INTO THE JOINTS AND VIBRATING, UNTIL THE JOINTS ARE FULL. DO NOT VIBRATE WITHIN 3 FEET OF THE UNRESTRAINED EDGES OF THE CONCRETE PAVERS.
 - AT THE END OF EACH DAY, ALL WORK WITHIN 3 FEET OF LAYING FACE MUST BE LEFT FULLY COMPACTED, WITH SAND-FILLED JOINTS.
 - SWEEP OFF THE EXCESS SAND.
- F.** LEAVE A FINAL SURFACE ELEVATION OF CONCRETE PAVERS OF 1/8 TO 1/4 INCH ABOVE ADJACENT DRAINAGE INLETS, CONCRETE COLLARS OR CHANNELS.
- G.** DO NOT PERMIT THE FINAL SURFACE ELEVATIONS OF THE PAVERS TO DEVIATE MORE THAN 3/8 INCH UNDER A 10 FOOT LONG STRAIGHTEDGE, OR MORE THAN 1/8 INCH BETWEEN ADJACENT PAVERS.
- H.** WHEN SETTING CONCRETE PAVERS ON A CONCRETE SLAB, USE MORTAR SET BEDDING 3/4" MINIMUM THICKNESS.

XI. INSPECTION NOTES:

- A.** THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD, AT LEAST 24 HOURS PRIOR TO THE INSPECTION OF THE FOLLOWING ITEMS:
 - STORM DRAINAGE. TELEVISED INSPECTION OF ALL GRAVITY STORM PIPES AND LATERALS.
 - SANITARY SEWER AND WATER SYSTEMS.
 - SUBGRADE. ENGINEER TO BE PRESENT AT TIME OF COMPACTION DENSITY TESTS. SUBMIT AND HAVE APPROVED DENSITIES PRIOR TO PLACEMENT OF ROCK.
 - LIMEROCK BASE. ENGINEER TO BE PRESENT AT TIME OF COMPACTION DENSITY TESTS. SUBMIT AND HAVE APPROVED DENSITIES AND AS-BUILTS PRIOR TO THE PLACEMENT OF ANY ASPHALT.
 - ASPHALT PAVEMENT AND CONCRETE CURBS.
 - FINAL.

XII. SIGNING AND MARKING NOTES:

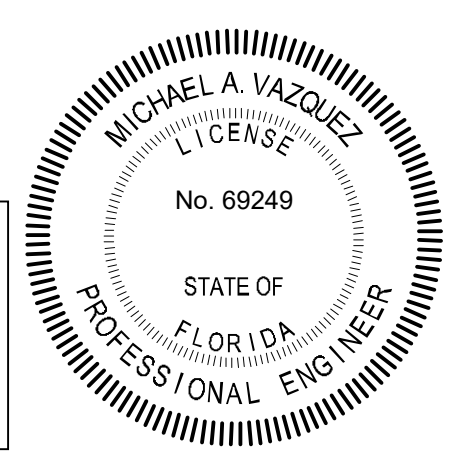
- A.** CONTRACTOR IS RESPONSIBLE FOR RESTORING ANY EXISTING TRAFFIC CONTROL SIGNS AND PAVEMENT MARKINGS REMOVED OR DISTURBED DURING CONSTRUCTION TO ORIGINAL CONDITIONS
- B.** ALL PAVEMENT MARKINGS AND SIGNS SHALL COMPLY WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", THE STANDARD SPECIFICATIONS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION, AND THE DADE COUNTY PUBLIC WORKS MANUAL.
- C.** ASPHALT CONCRETE SURFACE. ALL OFF-SITE PAVING MARKINGS TO BE THERMOPLASTIC PER FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, AND ALL ON-SITE MARKINGS SHALL BE TRAFFIC PAINT PER MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT SPECIFICATIONS, UNLESS OTHERWISE NOTED.
- D.** PAVESURFACES: MARKINGS TO BE COLOR PAVERS. COLOR OF PAVERS TO BE AS SPECIFIED ON PLANS. PAVERS MATERIAL TO BE AS SPECIFIED IN THE LANDSCAPE ARCHITECT PLANS.
- E.** INSTALL REFLECTIVE PAVEMENT MARKERS PER F.D.O.T. STANDARDS, OR AS SHOWN ON PLANS.
- F.** ALL SIGNS SHALL BE HIGH-INTENSITY GRADE REFLECTIVE SHEETING, MOUNTED ON A BREAK AWAY POST ASSEMBLY PER F.D.O.T. SPECIFICATIONS.
- G.** CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL PAVEMENT MARKINGS AND SIGNS CONFLICTING WITH THE PROPOSED ROADWAY CONSTRUCTION.
- H.** CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL PAVEMENT MARKINGS AND SIGNS AS SHOWN IN THE PLANS AND APPLICABLE TRAFFIC DESIGN STANDARDS.
- I.** CONTRACTOR SHALL BE RESPONSIBLE FOR MATCHING EXISTING PAVEMENT MARKINGS AT THE BEGINNING AND AT THE END OF THE PROJECT.
- J.** 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.

XIII. 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. MATERIALS:**
- XIV. SURVEYOR'S NOTE:**
- A.** ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929, BASED ON MIAMI-DADE COUNTY BENCHMARK NO. Z-313, ELEVATION +9.59, LOCATED ON OCTOBER 8, 2010 NEAR THE INTERSECTION OF 96TH STREET AND COLLINS AVENUE.
- B.** LANDS SHOWN HEREON ARE LOCATED WITHIN AN AREA HAVING A ZONE DESIGNATION AE (EL. 8) BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), ON FLOOD INSURANCE RATE MAP NO.S 12086C0144L AND 12086C0163L FOR COMMUNITY NO. 120636, DATED SEPTEMBER 11, 2009, AND INDEX MAP REVISED SEPTEMBER 11, 2009, AND IS RELATIVE TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929.
- C.** UNDERGROUND IMPROVEMENTS AND/OR UNDERGROUND ENCROACHMENTS NOT SHOWN UNLESS OTHERWISE INDICATED.
- D.** THE APPROXIMATE LOCATION OF ALL UTILITIES SHOWN HEREON WERE DETERMINED FROM AS-BUILT PLANS AND/OR ON-SITE LOCATIONS AND SHOULD BE VERIFIED BEFORE CONSTRUCTION.

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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 / Fax 305-651-7152 / Email fls@flsurvey.com

Drawn By: **REP**
 Ref. Dwg.: **2019-0104-NGVD**
 Date Plotted: **6/21/2022 11:00 AM**

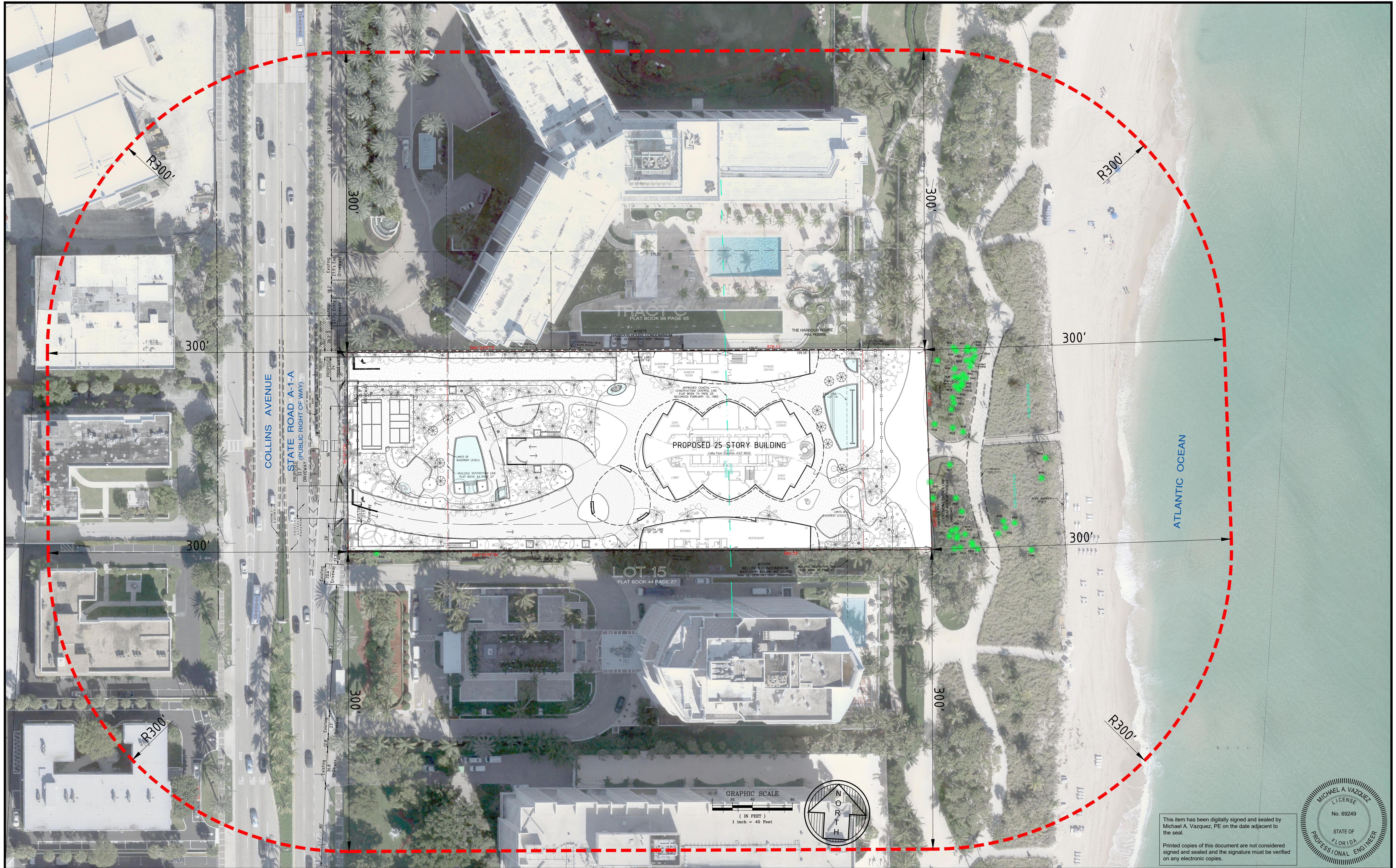
Cad. No.: **220177CP**
 Scale: **None**
 Job No.: **210930**

10245 Collins Avenue
Bal Harbour Village, Florida

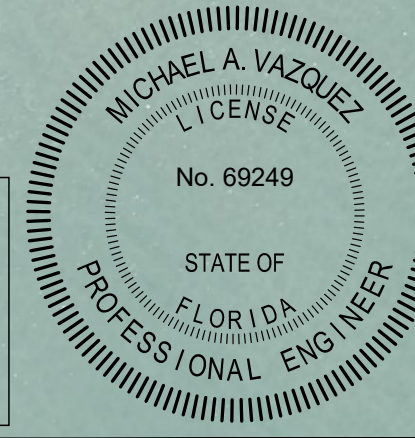
THE RESIDENCES OF BAL HARBOUR
CIVIL SITE PLAN - Notes and Specifications

Date
 Dwg. No. **3022-006**
 Sheet **C2**

K:\DWG3\220177CP.dwg, 6/21/2022 11:00:18 AM, rrebert



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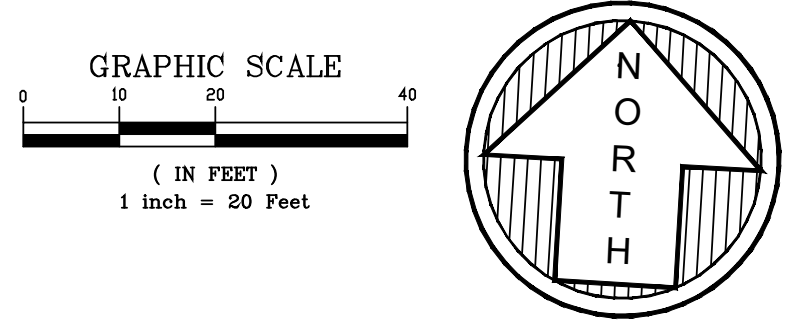
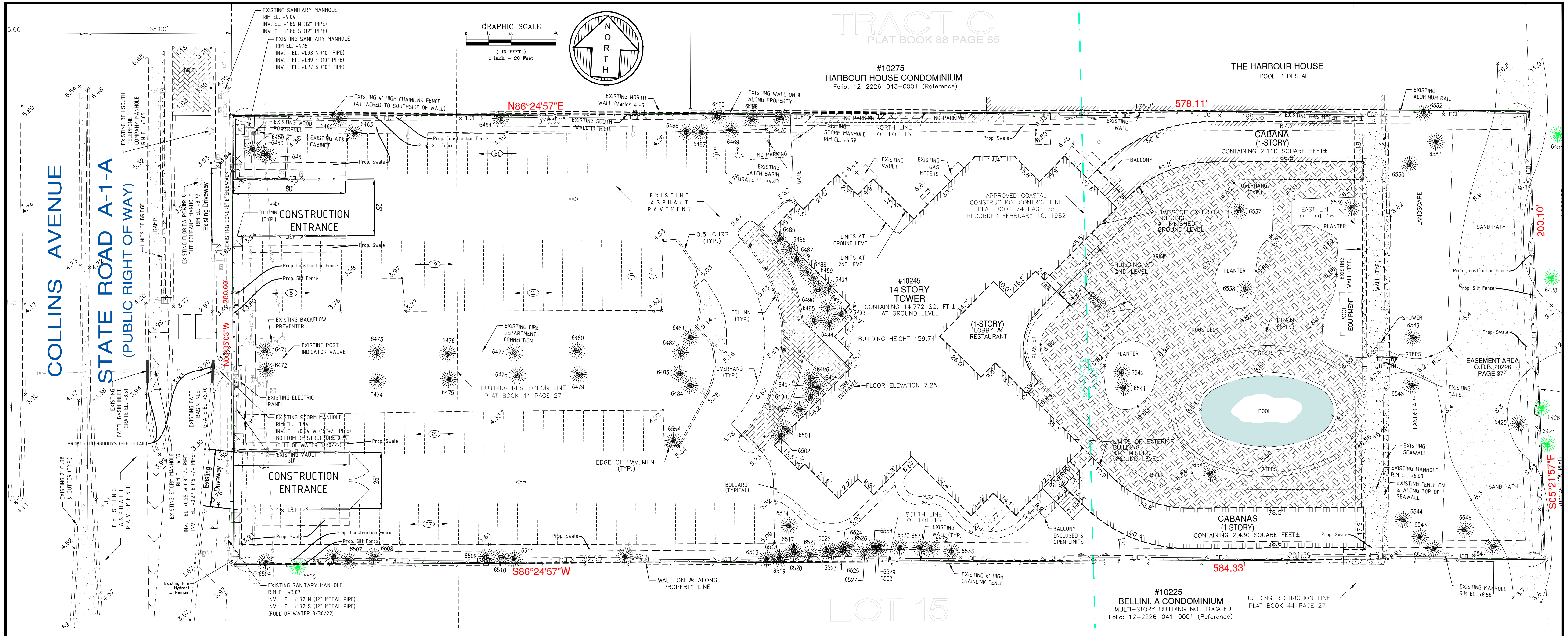
FORTIN, LEAVY, SKILES, INC.
 CONSULTING ENGINEERS, SURVEYORS & MAPPERS
 FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 00003653
 180 Northeast 168th Street / North Miami Beach, Florida, 33162
 Phone: 305-653-4493 / Fax 305-651-7152 / Email fls@flsurvey.com

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10245 Collins Avenue
Bal Harbour Village, Florida

THE RESIDENCES OF BAL HARBOUR
CIVIL SITE PLAN - Adjacent Driveway Plan

Date: 03/23/2022
 Dwg. No.: 3022-006
 Sheet: C3



TRACT C
PLAT BOOK 88 PAGE 65

#10275
HARBOUR HOUSE CONDOMINIUM
Folio: 12-2226-043-0001 (Reference)

THE HARBOUR HOUSE
POOL PEDESTAL

#10245
14 STORY TOWER
CONTAINING 14,772 SQ. FT. ±
AT GROUND LEVEL

(1-STORY)
LOBBY &
RESTAURANT

CABANA
(1-STORY)
CONTAINING 2,110 SQUARE FEET ±

CABANAS
(1-STORY)
CONTAINING 2,430 SQUARE FEET ±

#10225
BELLINI, A CONDOMINIUM
MULTI-STORY BUILDING NOT LOCATED
Folio: 12-2226-041-0001 (Reference)

LOT 15

COLLINS AVENUE
STATE ROAD A-1-A
(PUBLIC RIGHT OF WAY)

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No.	Date
Revision Description	

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 / Fax 305-651-7152 / Email fls@flsurvey.com

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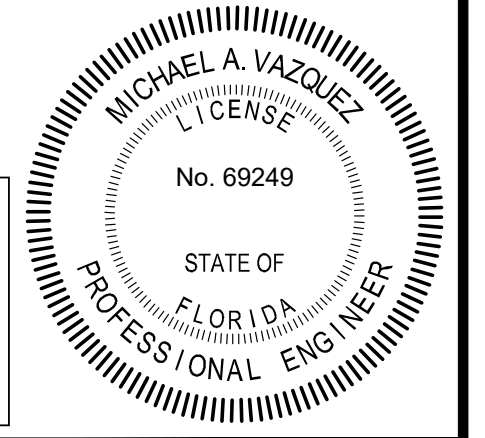
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Scale: **1" = 20'**
Job No.: **210930**

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Bal Harbour Village, Florida

THE RESIDENCES OF BAL HARBOUR
CIVIL SITE PLAN - Stormwater Pollution Prevention Plan

Date: **03/23/2022**
Dwg. No.: **3022-006**
Sheet: **C4**

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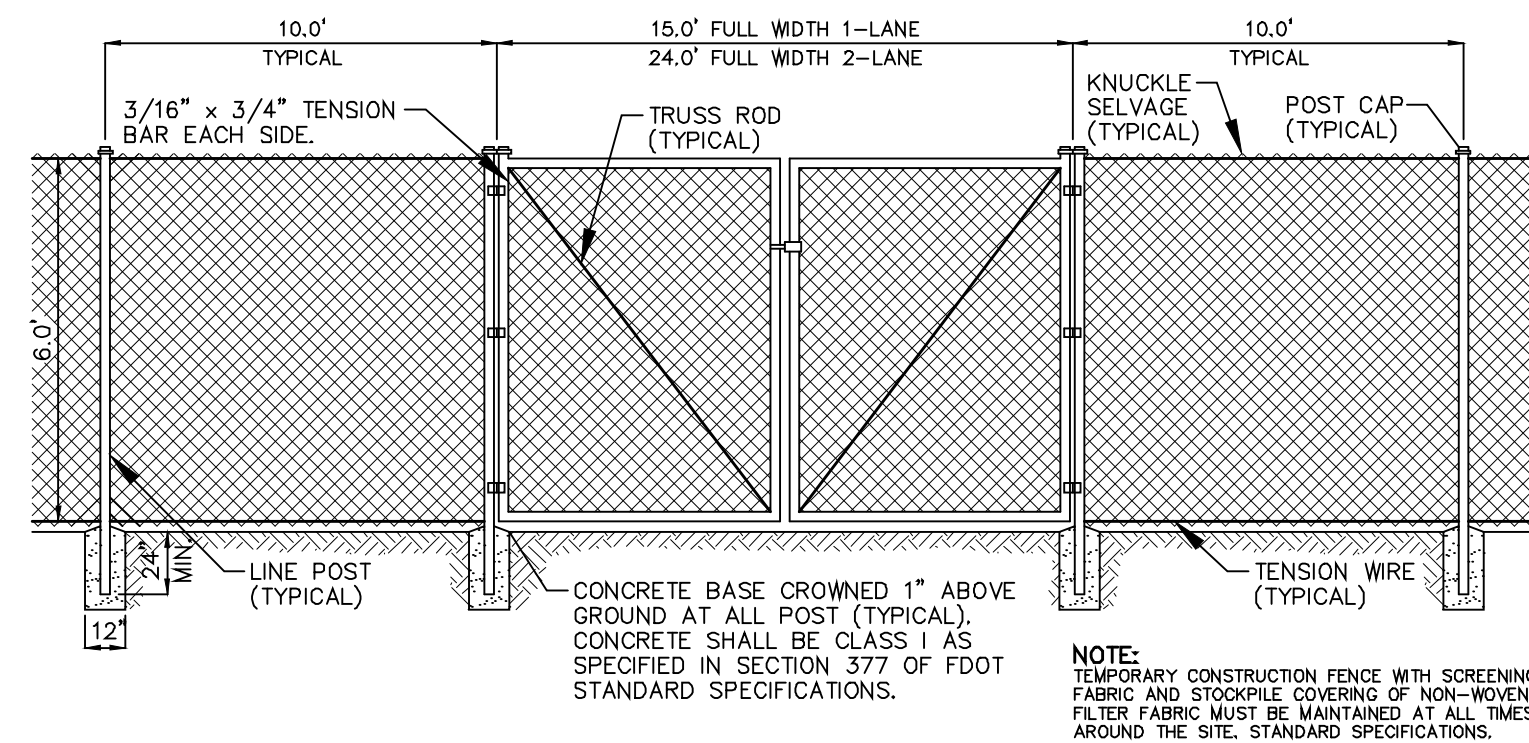


EROSION AND SEDIMENT CONTROL GENERAL NOTES:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THIS STORM WATER POLLUTION PREVENTION PLAN (SWPPP). IT IS ALSO THE CONTRACTOR'S 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.
- ALL ELEVATIONS ON THE PLANS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD).
- INSTALLATION OF ALL EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE PERFORMED UNDER THE SUPERVISION OF A FLORIDA REGISTERED SURVEYOR.
- THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER IF ANY ADDITIONAL DIMENSIONS OR SPECIFICATION ARE NEEDED TO LAYOUT THE POLLUTION CONTROL DEVICE.
- CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD TO RESOLVE CONFLICTS BETWEEN DESIGN AND EXISTING FEATURES.
- WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR BEEN PLACED IN WATER COURSES, DITCHES, 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.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
- CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, E.T.C. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
- 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.
- BALES SHALL BE PLACED LENGTH WISE IN A SINGLE ROW SURROUNDING THE INLET WITH THE ENDS OF THE ADJACENT BALES PRESSED TOGETHER.
- SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRE REPAIRS SHALL BE MADE IMMEDIATELY.
- 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 REPLACED PROMPTLY.
- SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT, THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-THIRD THE HEIGHT OF THE BARRIER.
- THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES.
- 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.
- EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS A POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
- 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.
- DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- 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 SOO.
- ALL DEWATERING EROSION AND SEDIMENT CONTROL TO REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION AND REMOVED ONLY WHEN AREAS HAVE BEEN STABILIZED.
- 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.
- 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.
- 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:

- 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.
- 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.
- 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.
- 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 SWEEP DAILY TO REMOVE ANY EXCESS MUD, DIRT, OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED.

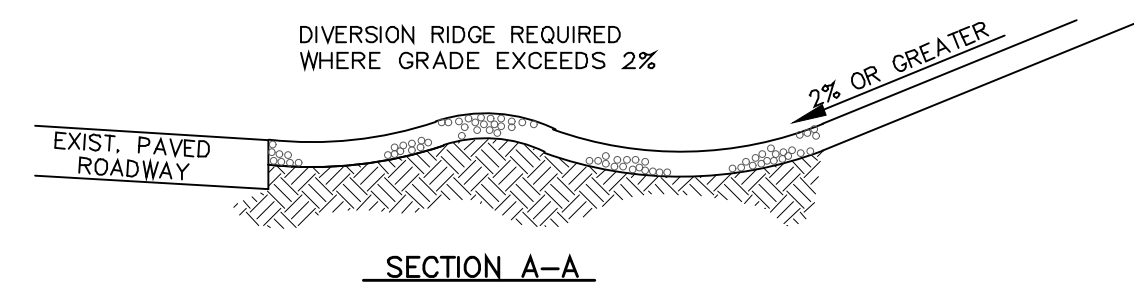


CHAIN LINK FENCE MATERIAL SPECIFICATION:
 CHAIN LINK: 6" HG. x 2 3/8" DIAMOND x 11.5 GAUGE KK
 TIES: 12ga x 7 STEEL, 4 PER POST
 LINE POST SPACING: 10'
 LINE POST: 1 5/8" x 8" GATE POST, WALL THICKNESS .080
 BRACE POST: 1 5/8" x 8" GATE POST, WALL THICKNESS .095

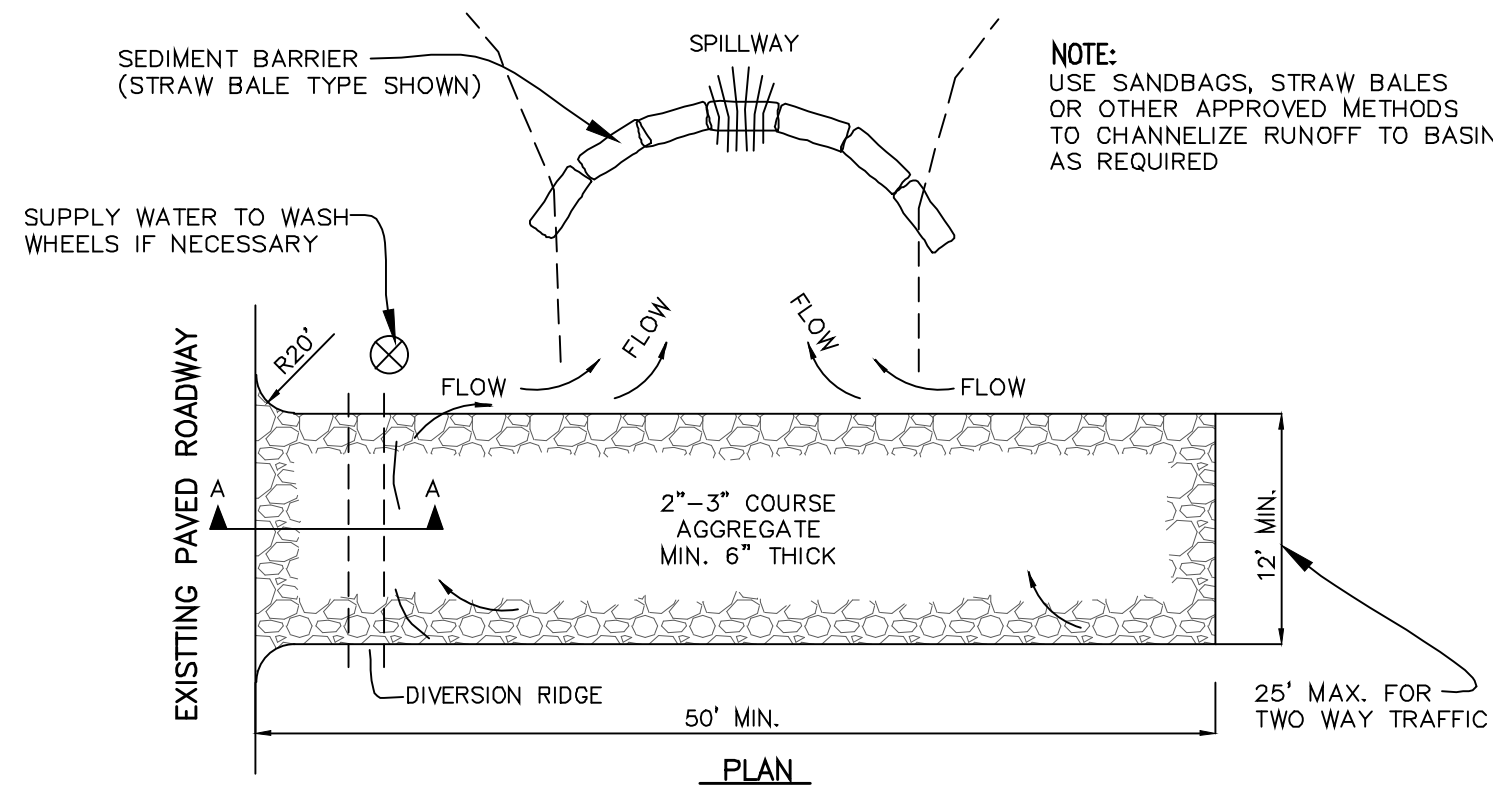
GATE MATERIAL SPECIFICATION:
 GATE FRAME: 1 3/8", WALL THICKNESS .065
 CHAIN LINK: 6" HIGH x 2 3/8" DIAMOND x 11.5 GAUGE KK
 MALE HINGE: 2 5/8" x 1 1/8" WIDE x 1/8" THICK HEAVY DUTY STEEL
 FEMALE HINGE: 1 3/8" x 1/8" THICK HEAVY DUTY STEEL
 GATE POST: 2 5/8" x 8" GATE POST, WALL THICKNESS .096

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
CRYSTALLINE MELT POINT	133 DEGREES C
COMPOSITION OF UV INHIBITOR	1.5% AMPLAS CM1182/7.5% EQUASTER CM10000
SHADE VALUE	88%
FLAMMABILITY POINT	364 DEGREES C

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

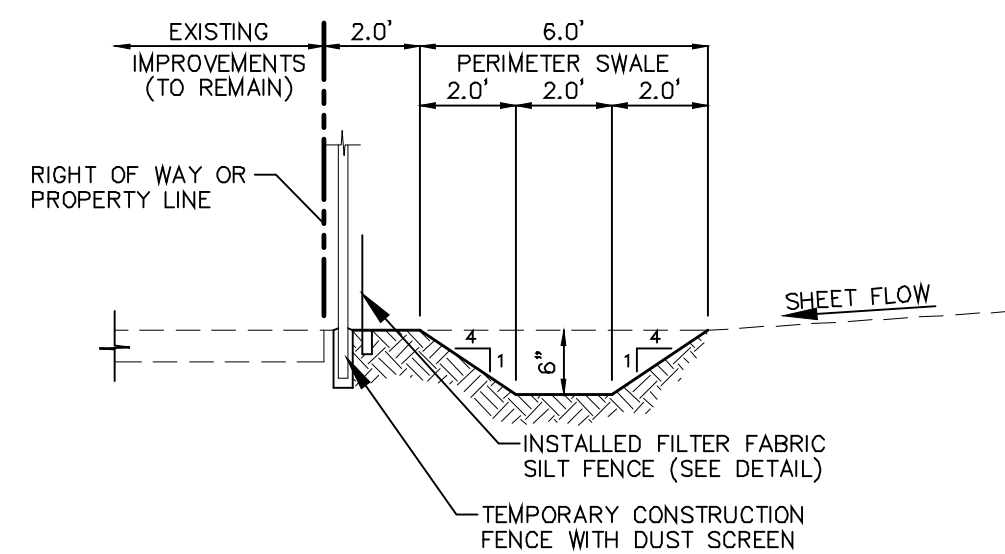


SECTION A-A

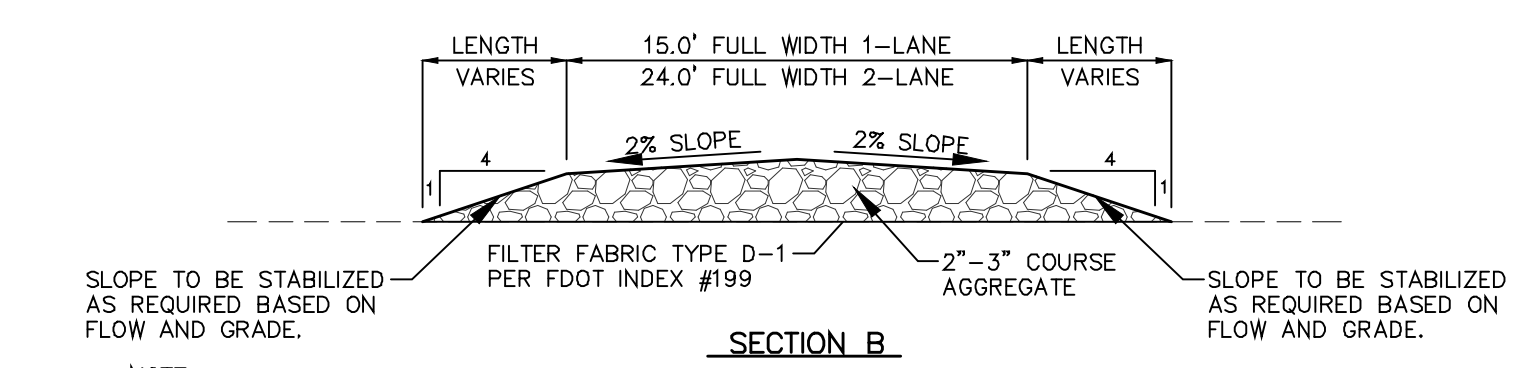
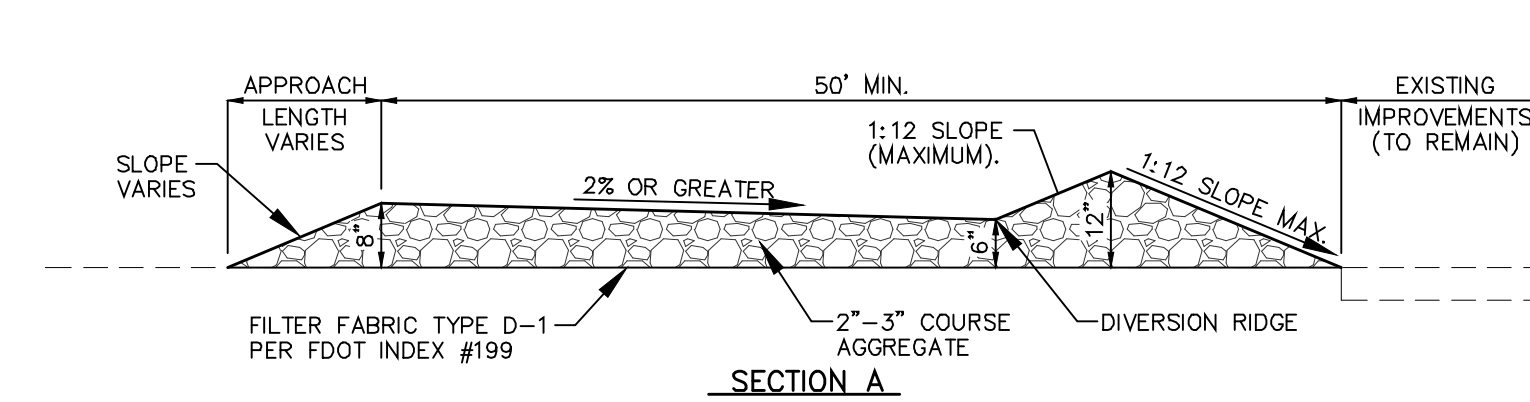
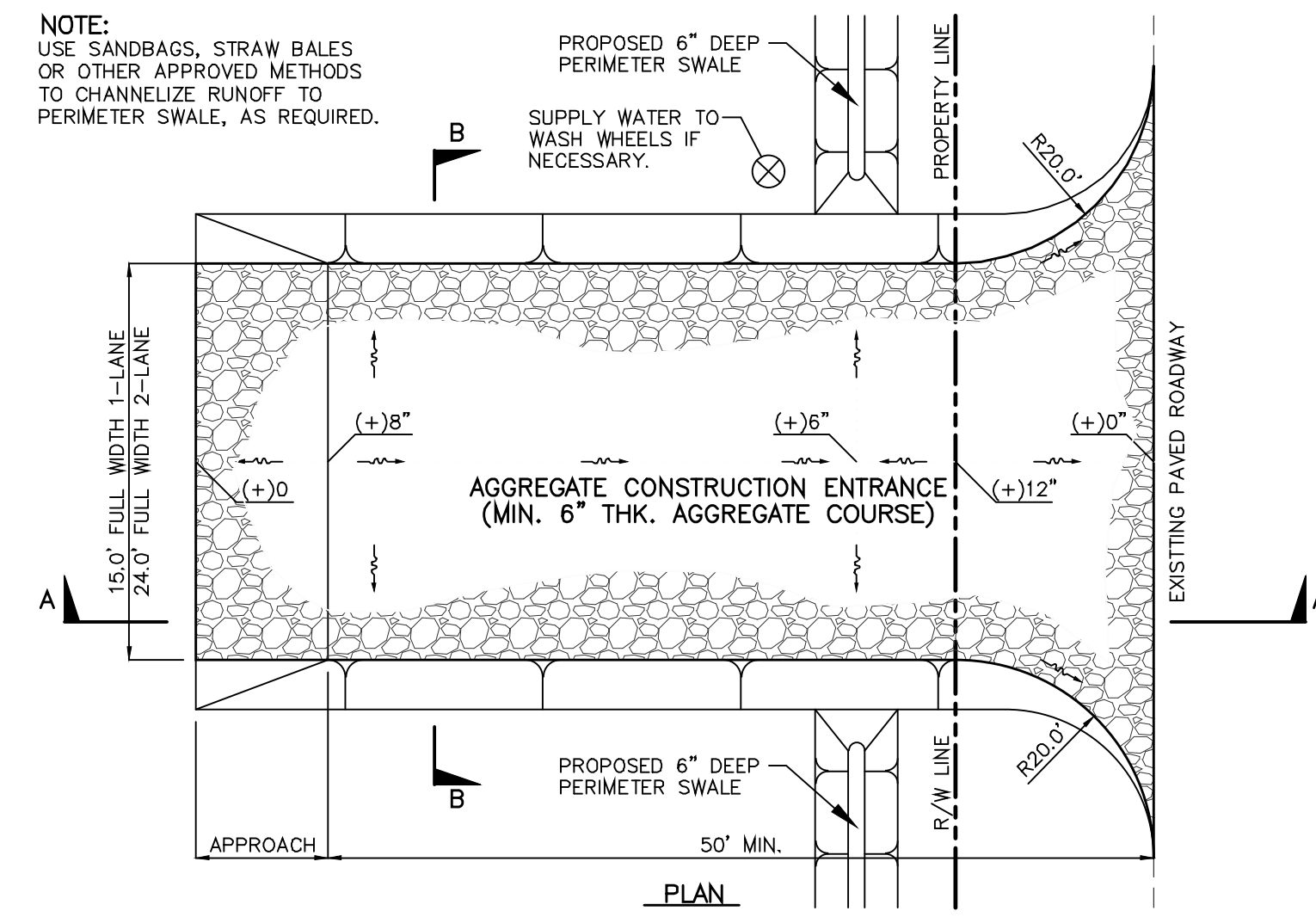


NOTE:
 1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/ OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. 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.

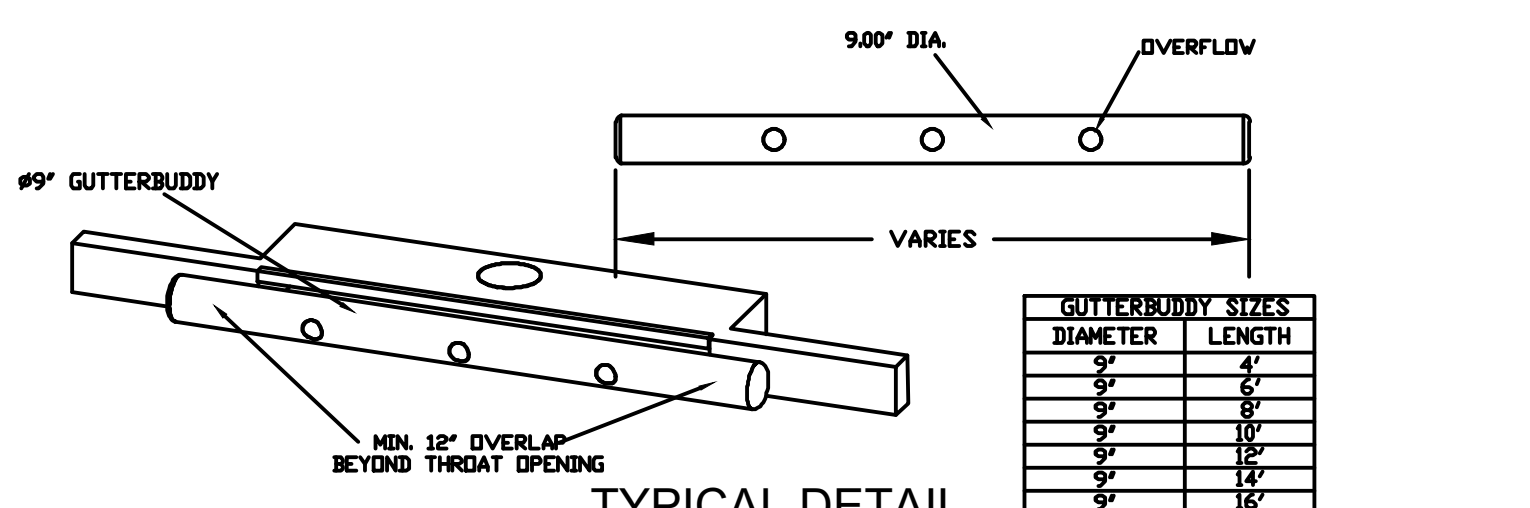


**TYPICAL DETAIL
EROSION PROTECTION**
N.T.S.

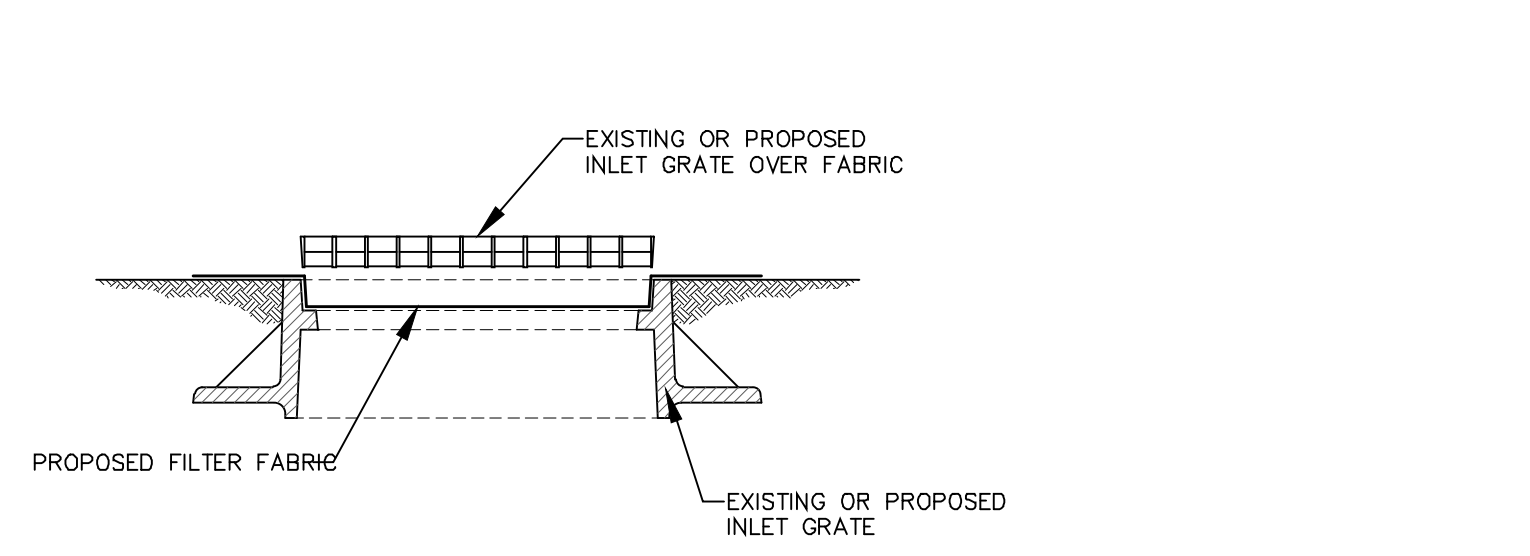


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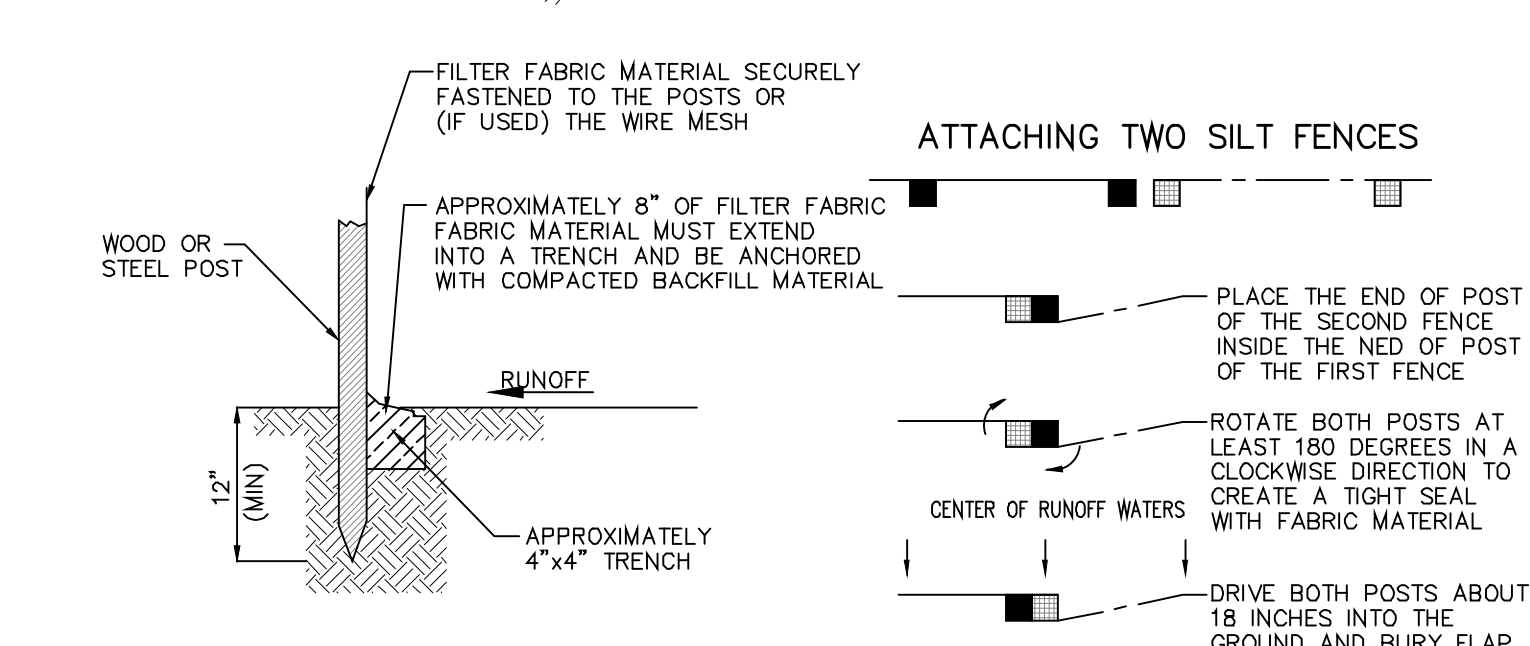
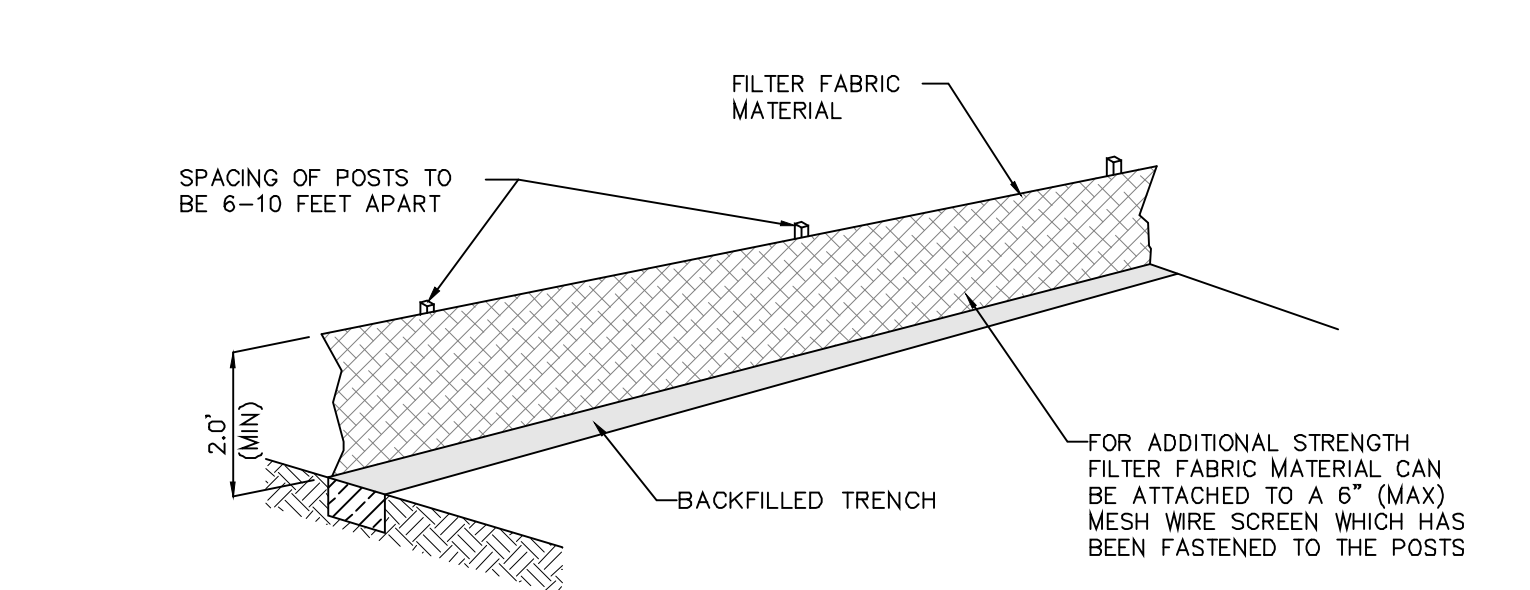
**TYPICAL DETAIL
TEMPORARY GRAVEL CONSTRUCTION ENTRANCE**
N.T.S.



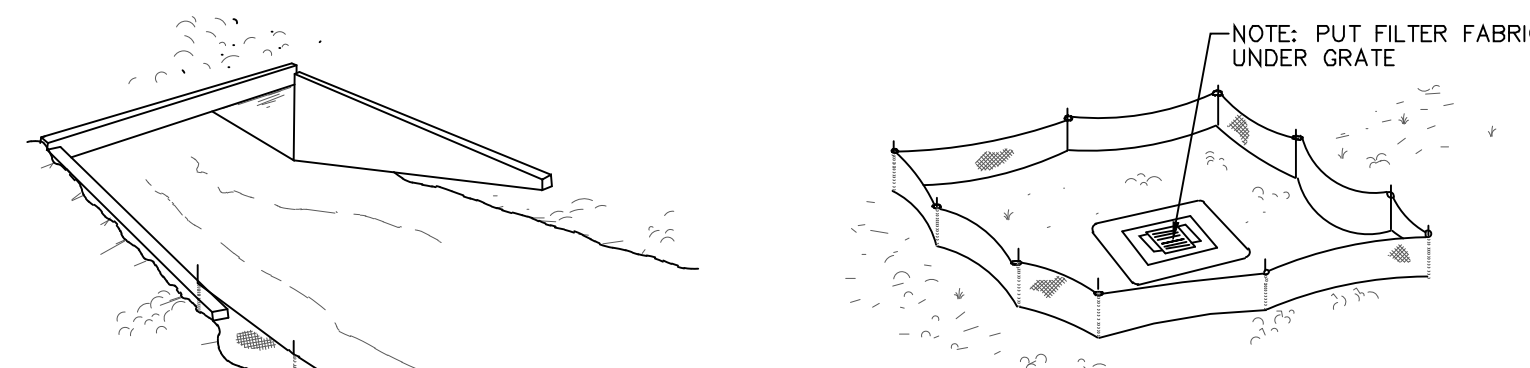
**TYPICAL DETAIL
GUTTERBUDDY INSTALLATION**
N.T.S.



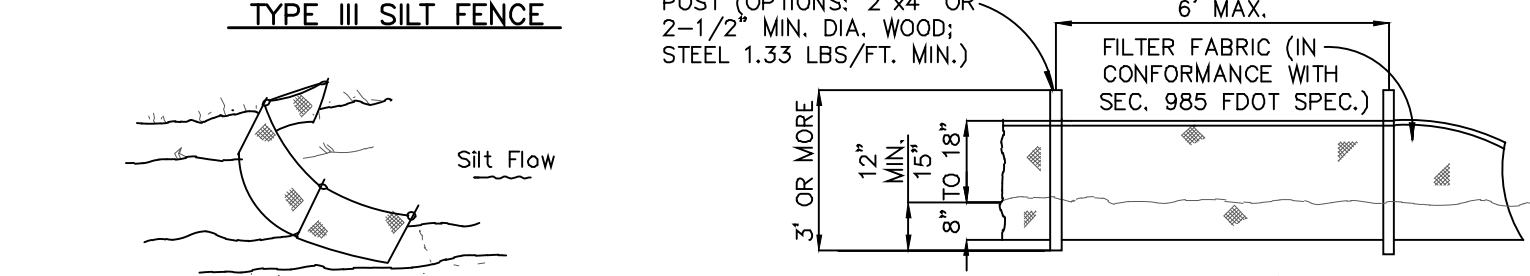
**TYPICAL DETAIL
FILTER FABRIC INSTALLATION**
N.T.S.



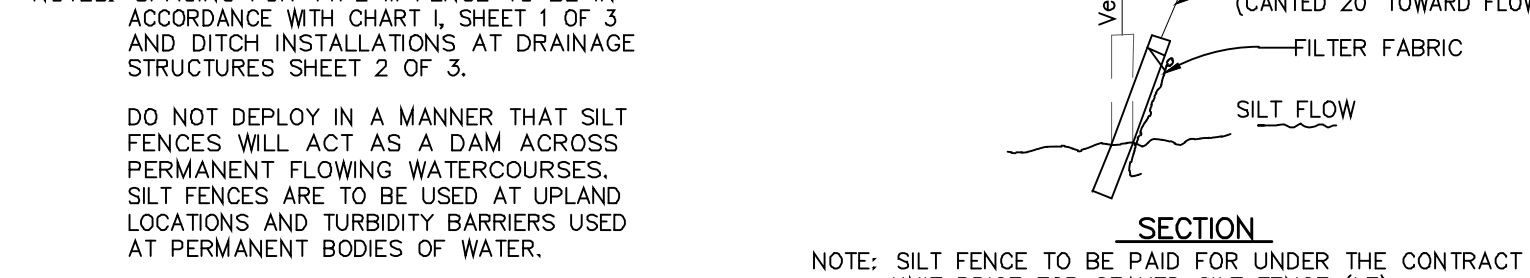
**TYPICAL DETAIL
INSTALLING A FILTER FABRIC SILT FENCE**
N.T.S.



TYPE III SILT FENCE



ELEVATION



SECTION

**TYPICAL DETAIL
SILT FENCE APPLICATION**
N.T.S.

No.	Date	Revision Description

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 / Fax 305-651-7152 / Email fls@flsurvey.com

Drawn By: **REP**
 Ref. Dwg.: **2019-0104-NGVD**
 Date Plotted: **6/21/2022 11:00 AM**

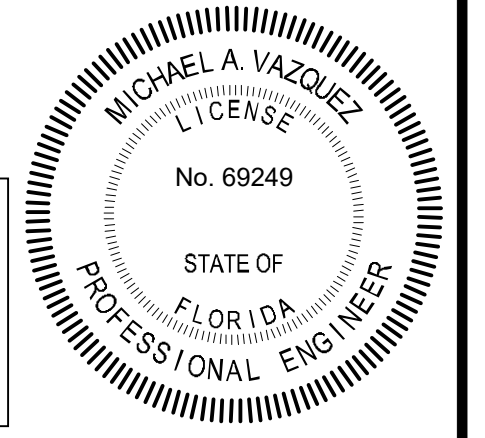
Cad. No.: **220177CP**
 Scale: **As Shown**
 Job No.: **210930**

10245 Collins Avenue
Bal Harbour Village, Florida

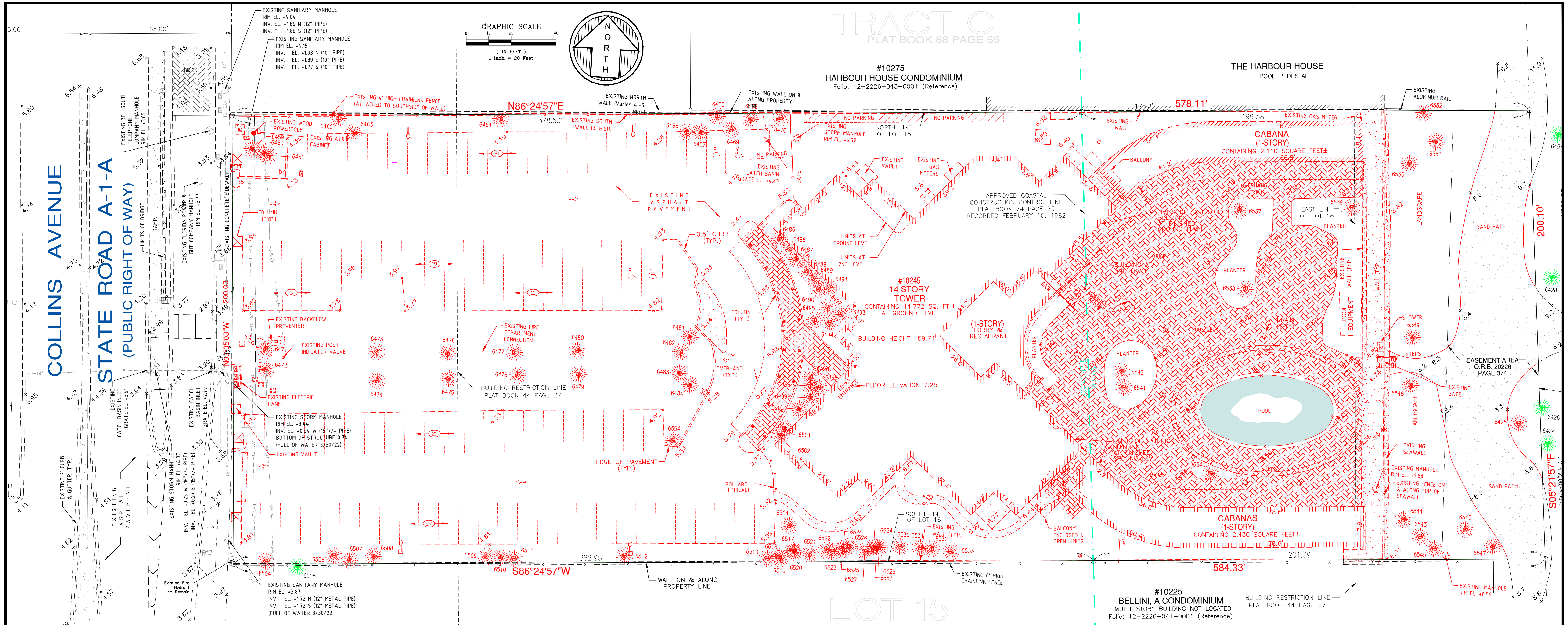
THE RESIDENCES OF BAL HARBOUR
CIVIL SITE PLAN - Stormwater Pollution Prevention Details

Date: **03/23/2022**
 Dwg. No.: **3022-006**
 Sheet: **C5**

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No.	Date	Revision Description

FORTIN, LEAVY, SKILES, INC.
 CONSULTING ENGINEERS, SURVEYORS & MAPPERS
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Drawn By: **REP**
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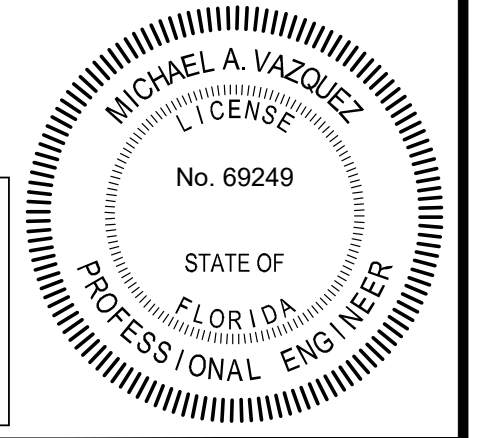
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 Job No.: **210930**

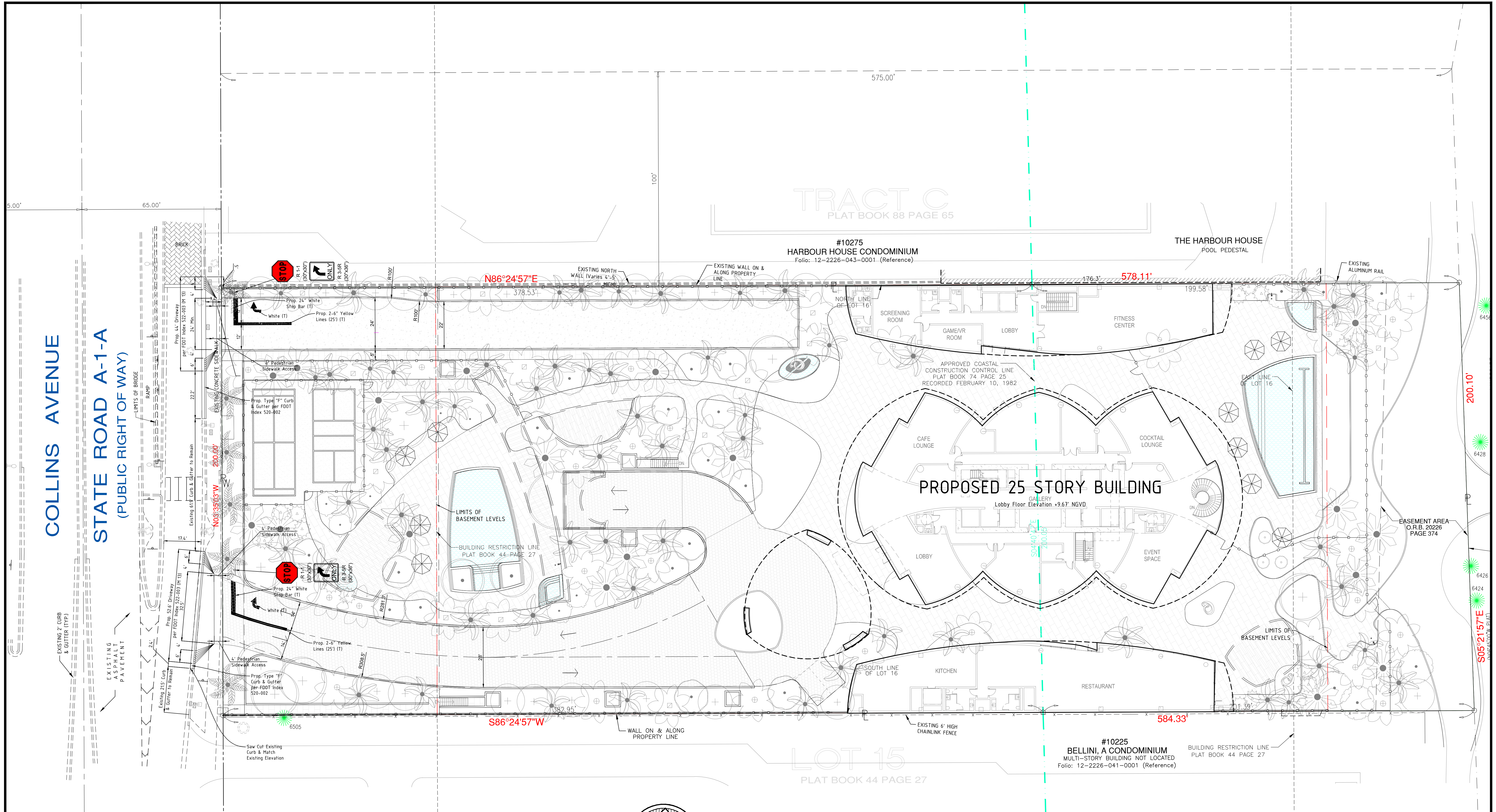
10245 Collins Avenue
Bal Harbour Village, Florida

THE RESIDENCES OF BAL HARBOUR
CIVIL SITE PLAN - Demolition Plan

Date: **03/23/2022**
 Dwg. No.: **3022-006**
 Sheet: **C6**

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COLLINS AVENUE
STATE ROAD A-1-A
 (PUBLIC RIGHT OF WAY)

TRACT C
PLAT BOOK 88 PAGE 65

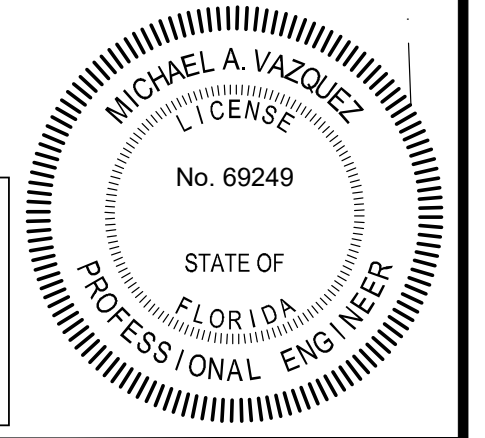
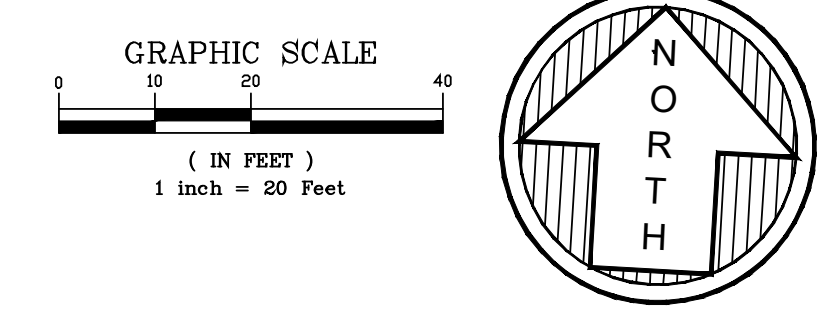
#10275
HARBOUR HOUSE CONDOMINIUM
Folio: 12-2226-043-0001 (Reference)

THE HARBOUR HOUSE
POOL PEDESTAL

PROPOSED 25 STORY BUILDING
Lobby Floor Elevation +9.67' NGVD

LOT 15
PLAT BOOK 44 PAGE 27

#10225
BELLINI, A CONDOMINIUM
MULTI-STORY BUILDING NOT LOCATED
Folio: 12-2226-041-0001 (Reference)



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No.	Date	Revision Description

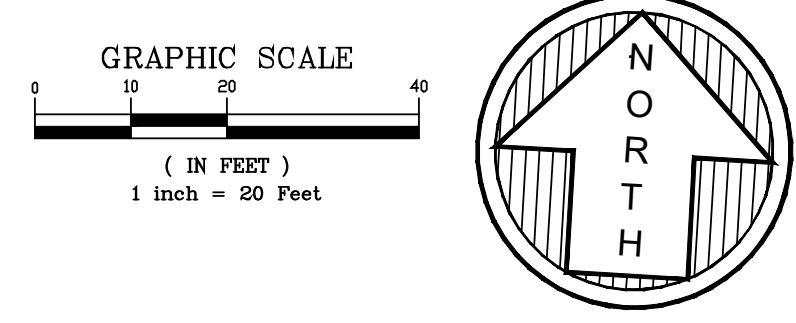
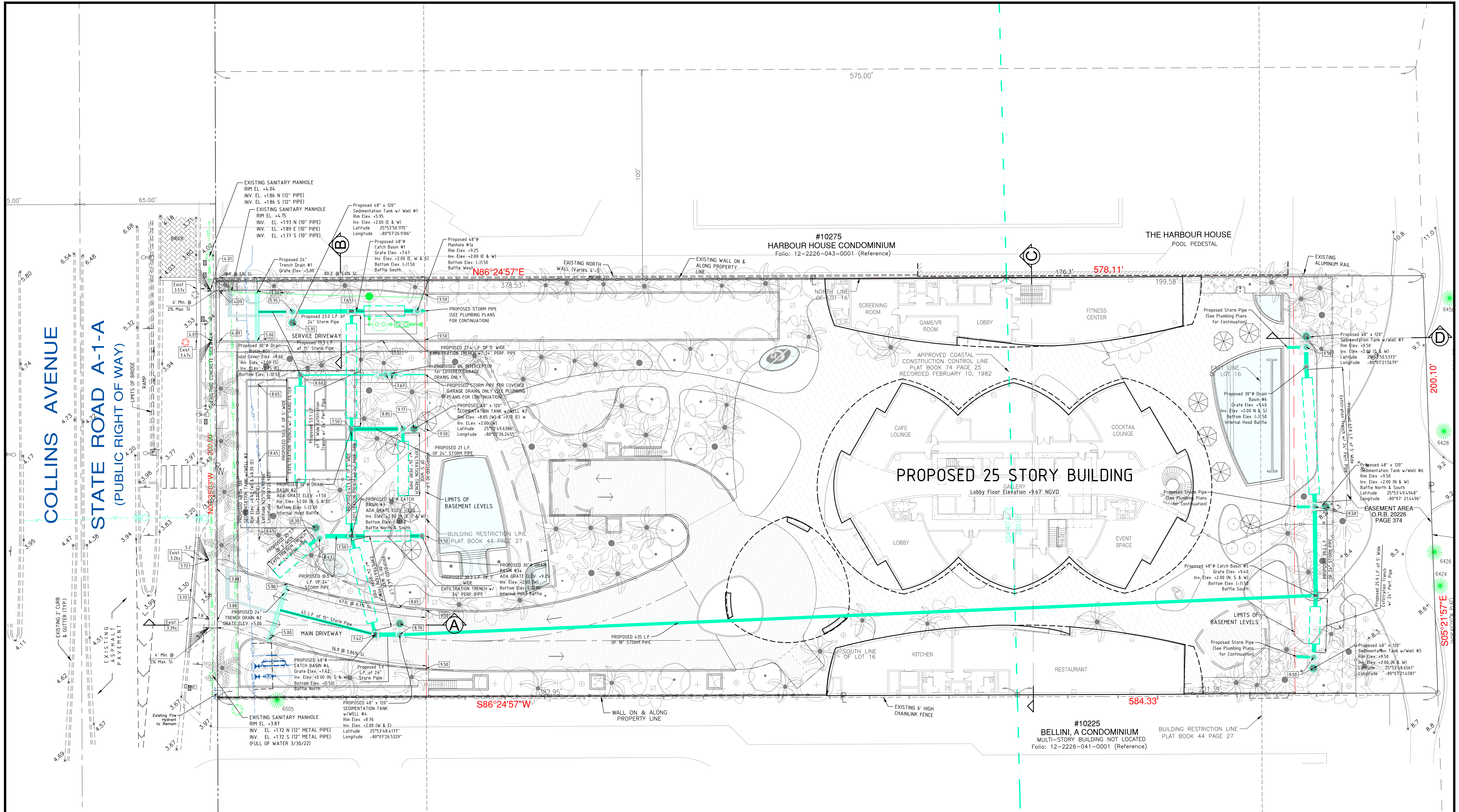
FORTIN, LEAVY, SKILES, INC.
CONSULTING ENGINEERS, SURVEYORS & MAPPERS
FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 00003653
180 Northeast 168th Street / North Miami Beach, Florida, 33162
Phone: 305-653-4493 / Fax 305-651-7152 / Email fls@flsurvey.com

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Ref. Dwg.: **2019-0104-NGVD**
Date Plotted: **6/21/2022 11:01 AM**
Cad. No.: **220177CP**
Scale: **1" = 20'**
Job No.: **210930**

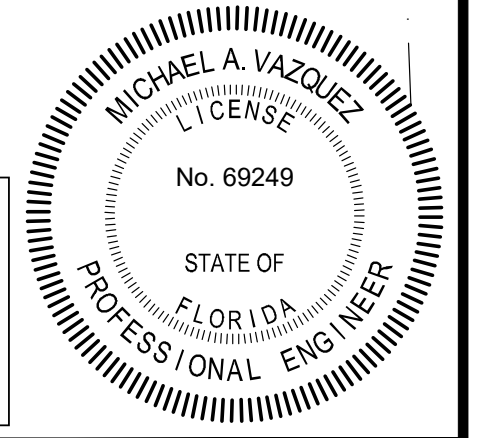
10245 Collins Avenue
Bal Harbour Village, Florida

THE RESIDENCES OF BAL HARBOUR
CIVIL SITE PLAN - Driveway Marking & Signage Plan

Date: **03/23/2022**
Dwg. No.: **3022-006**
Sheet: **C7**



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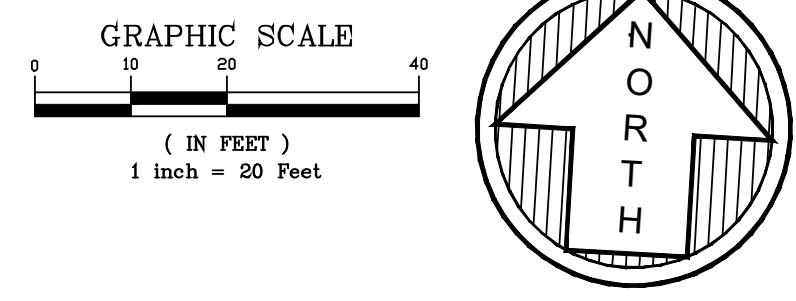
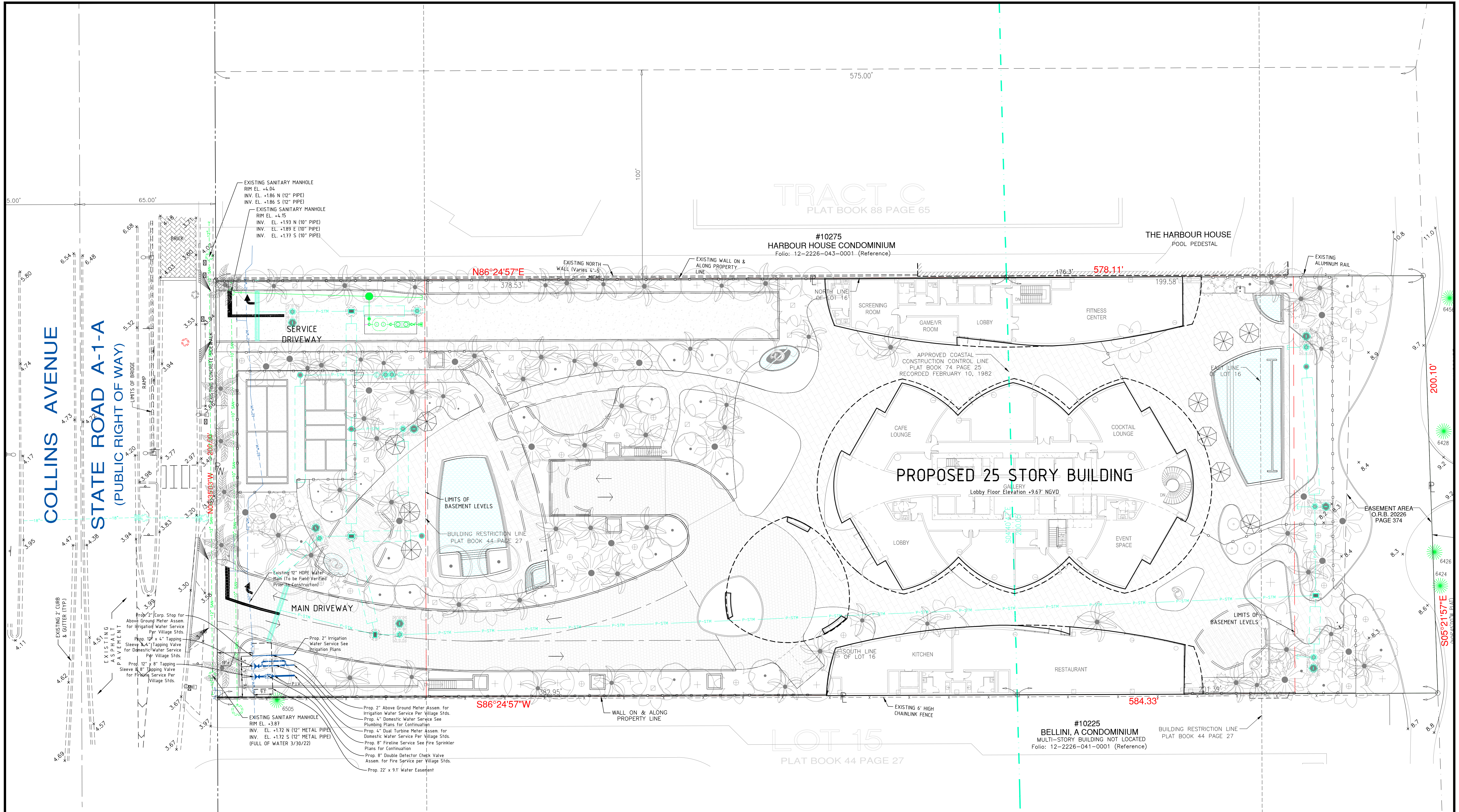
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 Ref. Dwg.: **2019-0104-NGVD**
 Date Plotted: **6/21/2022 11:01 AM**

Cad. No.: **220177CP**
 Scale: **1" = 20'**
 Job No.: **210930**

10245 Collins Avenue
Bal Harbour Village, Florida

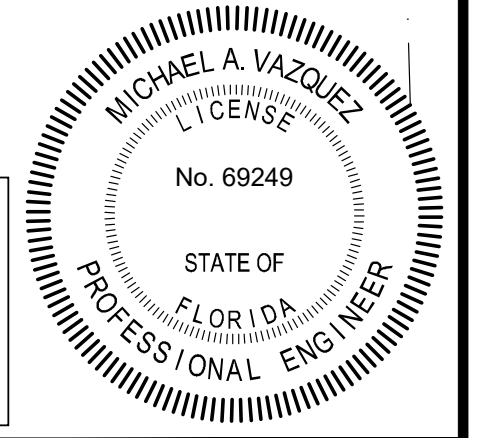
THE RESIDENCES OF BAL HARBOUR
CIVIL SITE PLAN - Paving, Grading & Drainage Plan

Date: **03/23/2022**
 Dwg. No.: **3022-006**
 Sheet: **C8**



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No.	Date	Revision Description

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FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 00003653
180 Northeast 168th Street / North Miami Beach, Florida, 33162
Phone: 305-653-4493 / Fax 305-651-7152 / Email fls@flsurvey.com

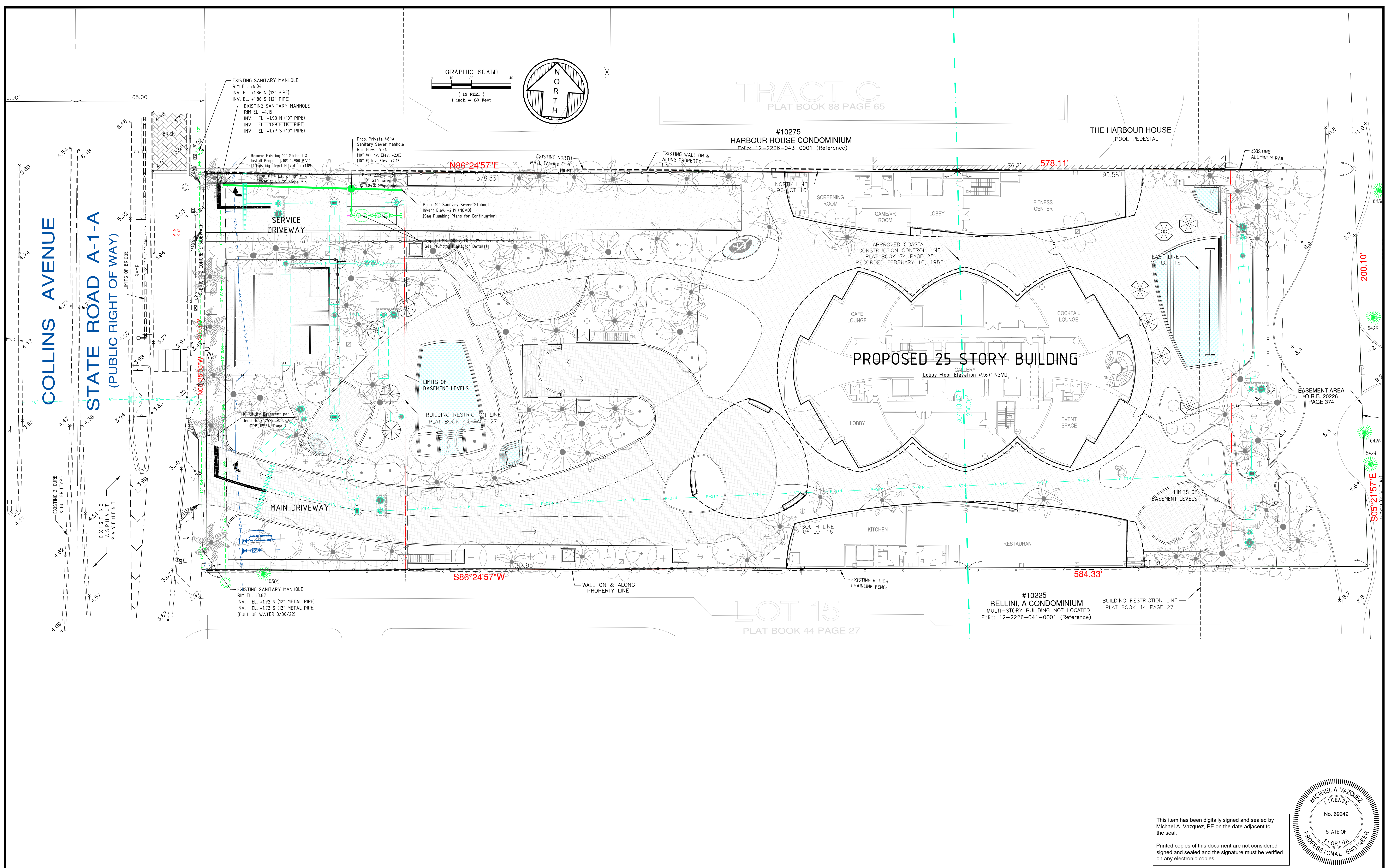
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Ref. Dwg.: **2019-0104-NGVD**
Date Plotted: **6/21/2022 11:01 AM**

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Scale: **1" = 20'**
Job No.: **210930**

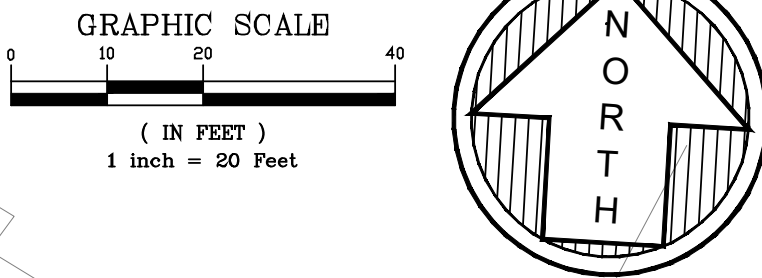
10245 Collins Avenue
Bal Harbour Village, Florida

THE RESIDENCES OF BAL HARBOUR
CIVIL SITE PLAN - Water Plan

Date: **03/23/2022**
Dwg. No.: **3022-006**
Sheet: **C9**



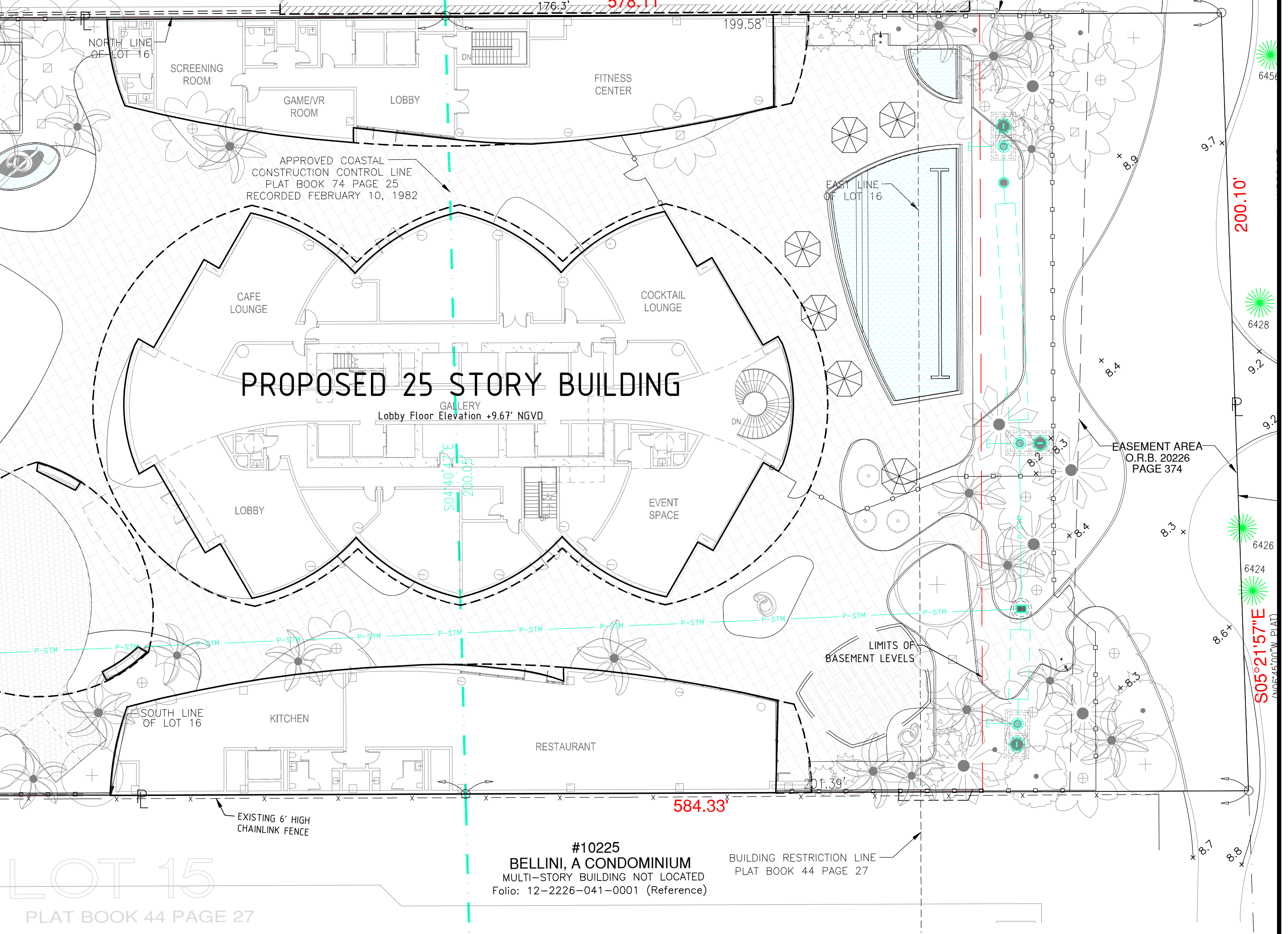
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TRACT C
 PLAT BOOK 88 PAGE 65

#10275
 HARBOUR HOUSE CONDOMINIUM
 Folio: 12-2226-043-0001 (Reference)

THE HARBOUR HOUSE
 POOL PEDESTAL



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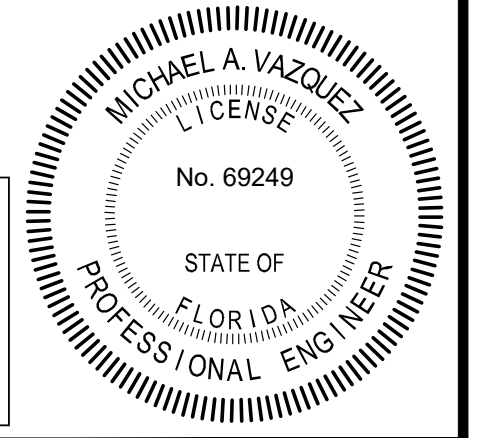
Cad. No.: **220177CP**
 Scale: **1" = 20'**
 Job No.: **210930**

10245 Collins Avenue
 Bal Harbour Village, Florida

THE RESIDENCES OF BAL HARBOUR
 CIVIL SITE PLAN - Sewer Plan

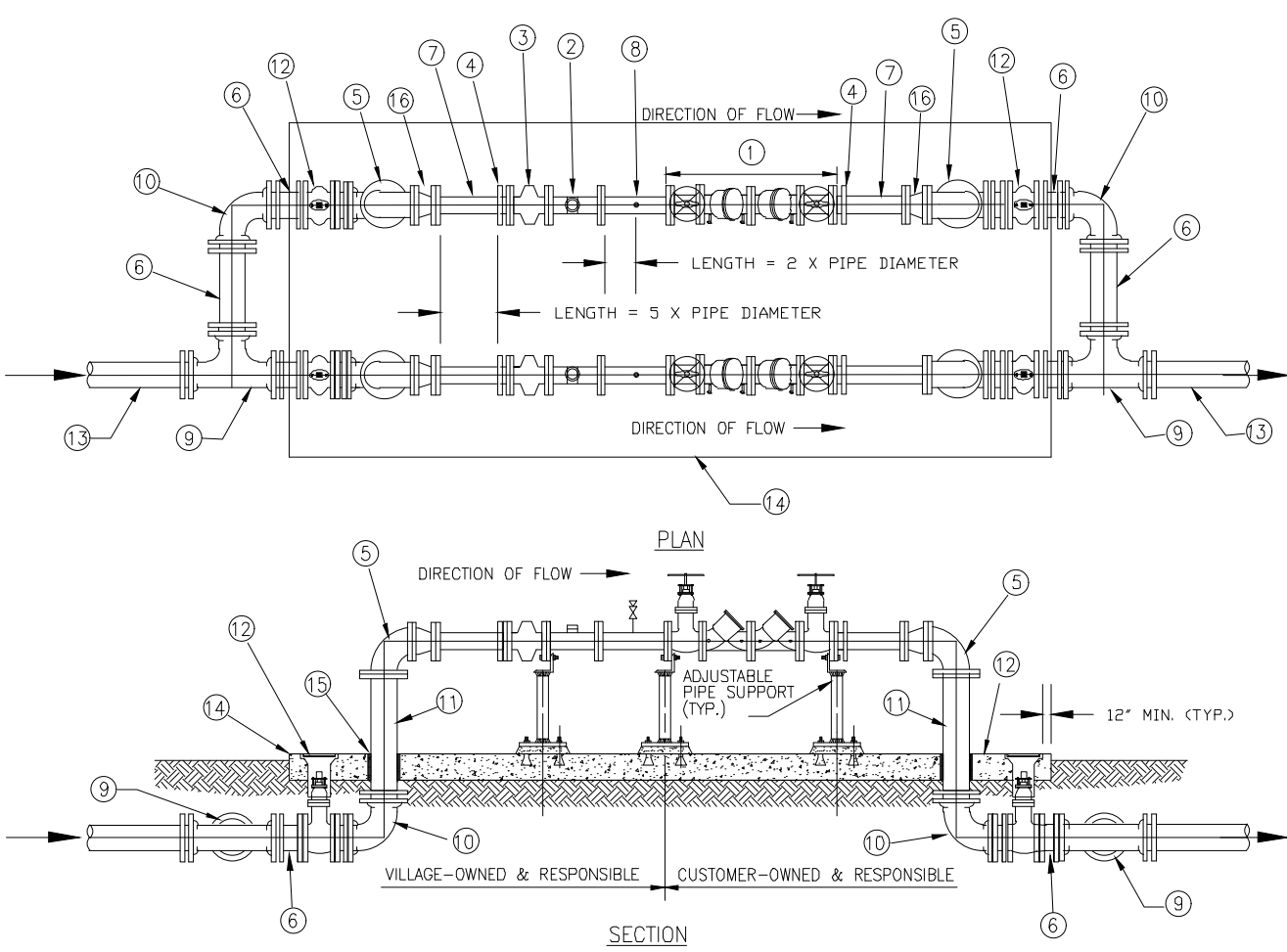
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 Dwg. No.: **3022-006**
 Sheet: **C10**

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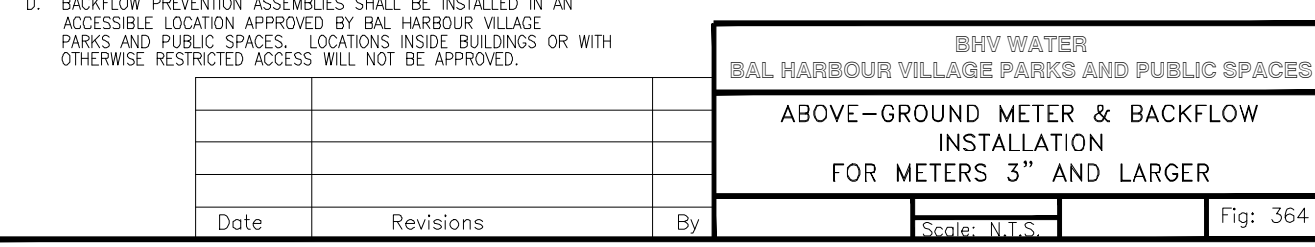


GENERAL NOTES & SPECIFICATIONS FOR WATER MAIN INSTALLATIONS

- All materials and construction under this project shall be in strict accordance with the requirements of the Bal Harbour Village Parks and Public Spaces (BVH) and/or Miami-Dade County Public Works Department (MDCPWD) and/or the Florida Department of Transportation (FDOT) and shall conform to the standards and specifications available and on file with the department. As a minimum requirement, the standards of the AWWA shall apply.
- Minimum cover over water mains shall be 3'-0" unless specific written exception is issued or required by an authorized representative of BVH.
- Detector tape shall be installed 18" above the centerline of water mains and services.
- All water main line valves shall be installed complete with 10" riser pipes and No. 3 valve boxes. Fire hydrants and service valves shall be installed complete with 6" riser pipes and No. 2 valve boxes.
- All water meters up to 2" will be installed by department personnel providing the appropriate charges have been pre-paid. Provision of service pipes, backflow preventers, valves and meter pits will be in accordance with construction plans and specifications approved by BVH.
- Fire hydrant requirements (number and location) shall be as required by the Miami-Dade County Fire Department or the appropriate fire agency with installations in accordance with BVH standards.
- Contractor MUST call the BVH Inspection Division and all other applicable permitting agencies to arrange for a Pre-Construction Meeting of least 72 hours prior to proposed start of construction.
- BVH personnel will inspect all facilities approved by the Engineering Department. All other requirements of the permitting agency shall be in accordance with their standards and requirements.
- Work performed under this project will not be considered as complete until final acceptance of the system by the department and until the following documents are received and approved by BVH:
 - Assement, if required (whether by deed or plot suitability records).
 - Contractor's Waiver and Release of Lien
 - Absolute Bill of Sale
 - Contractor's Letter of Warranty (i.e. Letter Agreement)
 - Contractor's Maintenance Bond (1 year)
 - As-Built 3 mil mylar 24" x 36" showing specific locations, depths, etc. of all water facilities as located by a licensed surveyor, along with two (2) prints of the "As-Built" which have been signed and sealed by a registered surveyor or Engineer of record and endorsed by the Contractor in accordance with BVH standards.
- All new connections from existing BVH mains to be inspected by BVH forces prior to backfill.
- The Contractor shall be responsible for verifying all locations, dimensions, elevations and the locations of all underground structures and utilities prior to the start of construction. The locations shown on the plans are not guaranteed accurate or correct by the known utility companies.
- Thrust blocks shall be provided at all bends, tees, and plugs in accordance with BVH standard details.
- All new fittings of reaction points shall be fitted with megaling retainer glands or approved equal, meeting BVH requirements. All valves are to be restrained with retainer glands.
- Pipe installation, cleaning, flushing, testing, and disinfecting, as per BVH and State of Florida Department of Environmental Protection (DEP) Standards for the installation of water mains by customer donation projects.
- Preliminary cleaning of all water mains 12" and larger to be accomplished by use of a poly-pig per BVH standards.
- The Contractor is responsible for the cost of inspections for any construction activities occurring outside normal working hours (8:00 a.m. to 5:00 p.m.) weekends and holidays. Arrangements for inspections outside normal working hours must be made a minimum of 48 hours in advance of the construction activity.
- All trenches to be over-excavated a minimum of 6" to provide for installation of rock bedding in accordance with BVH Standards.
- Surface restoration, pavement replacement, sidewalk replacement, trench backfilling and compaction shall comply with the applicable current BVH, MDCPWD and FDOT Standards.
- All gate valves to be resilient seat per AWWA-C509.
- Where field conditions require, as determined by BVH, the water main shall be polyethylene encased in accordance with AWWA-C105.
- The Engineer of Record shall be responsible for providing BVH with DOH Letter of Clearance to Place a Public Drinking Water Facility into Service. The Engineer of record shall provide BVH with a signed and sealed pressure test report certifying pressure test results.



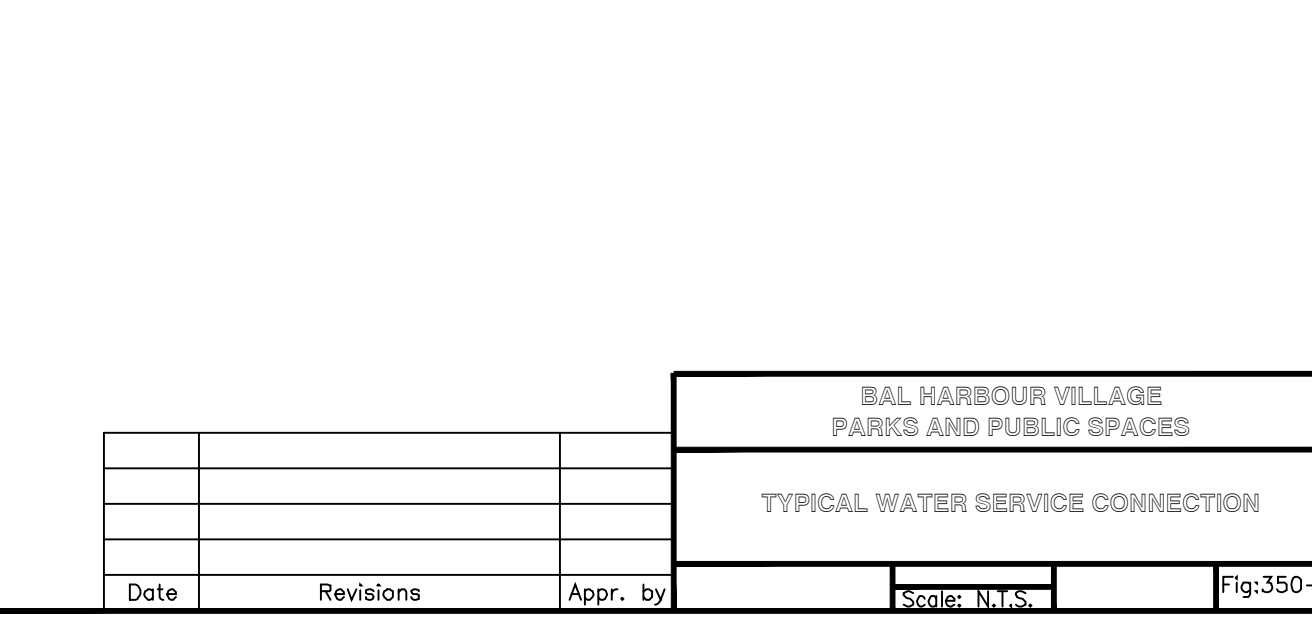
- PIPING DESIGNATION:**
- USC APPROVED REDUCED PRESSURE BACKFLOW ASSEMBLY
 - METER (SENSUS TURBINE METER) (FLG X FLG)
 - METER STRAINER (FLG X FLG)
 - MEGALANSE FLANGE ADAPTER, 2100 SERIES BY EBAA IRON SALES, INC.
 - DIP SPOOL, PIECE (FLG X PD) LENGTH AS REQUIRED
 - DIP SPOOL, PIECE (FLG X PD) LENGTH AS REQUIRED
 - DIP SPOOL, PIECE (FLG X FLG) WITH 2" TAP FOR BLOW-OFF (2" X 4" W/PIPE W/2" BALL VALVE & FLG)
 - TEE (M X M) DIP, RESTRAINED
 - 90° BEND (M X M) DIP, RESTRAINED
 - DIP SPOOL, PIECE (FLG X PD) LENGTH AS REQUIRED
 - RESILIENT SEAT GATE VALVE (M X M) WITH SQUARE NUT, VALVE BOX & COVER
 - CLASS 250 DIP, RESTRAINED AS REQUIRED
 - 6" THICK CONC. SLAB W/3 BARS, 12" OC / EW
 - WRAP PIPE W/AD U.S. FELT
 - REDUCER (FLG X FLG) AS NEEDED
 - GUARDPOSTS OR PROTECTIVE ENCLOSURE ARE REQUIRED DEPENDING ON SITE CONDITIONS.
 - ALL ABOVE-GROUND PIPING TO BE FLANGED.
 - INSTALL ADJUSTABLE PIPE SUPPORTS WHERE INDICATED.
 - SIZE OF METER AND PIPING SHALL BE DETERMINED BY THE PROJECT ENGINEER OF RECORD.
 - BOTH METERS SHALL BE OF THE SAME SIZE AND SHALL BE EQUAL OR (MAXIMUM) ONE SIZE SMALLER THAN THE SERVICE LINE.



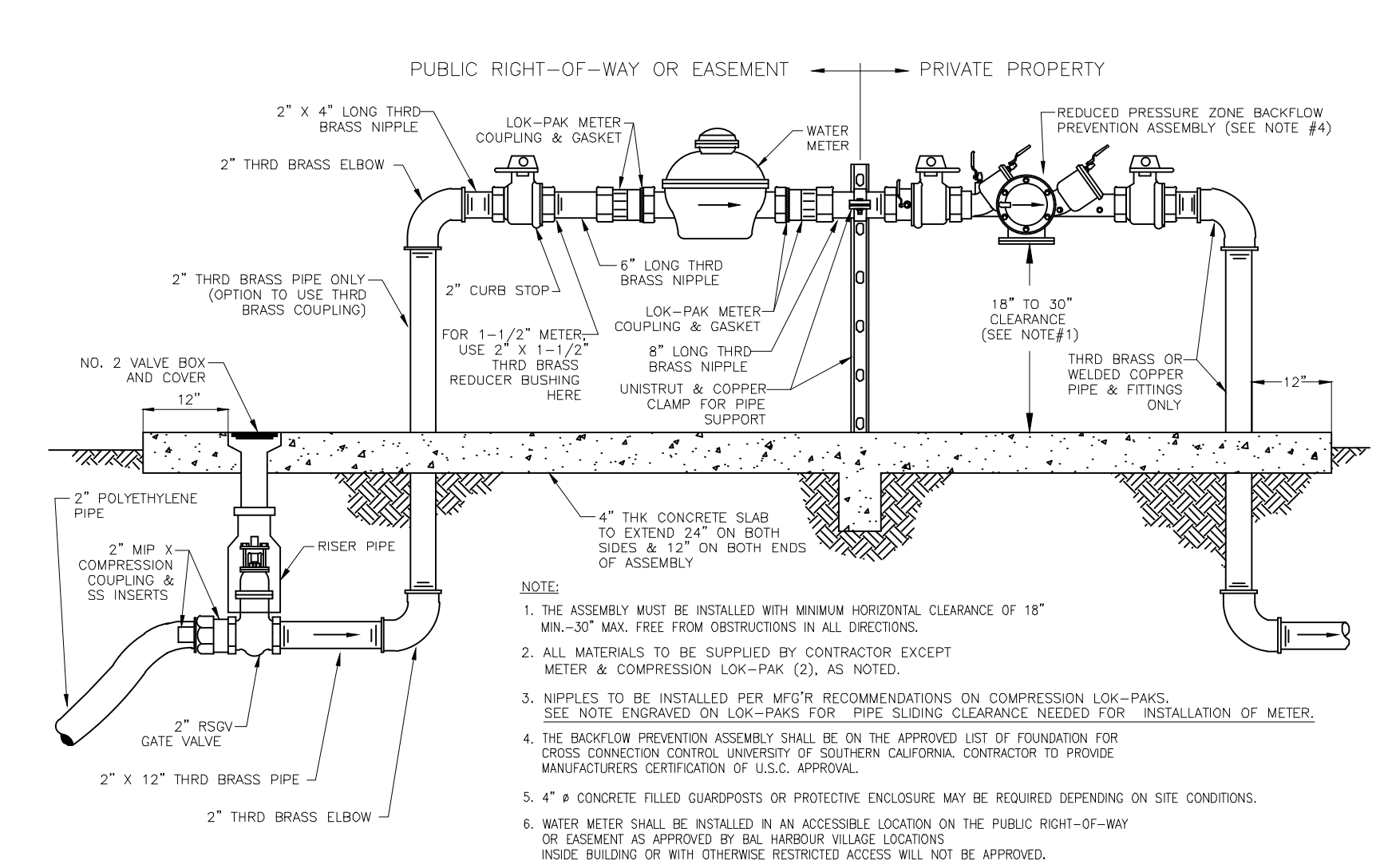
Date	Revisions	Appr. by	Scale: N.T.S.	Fig: 364

NOTE:

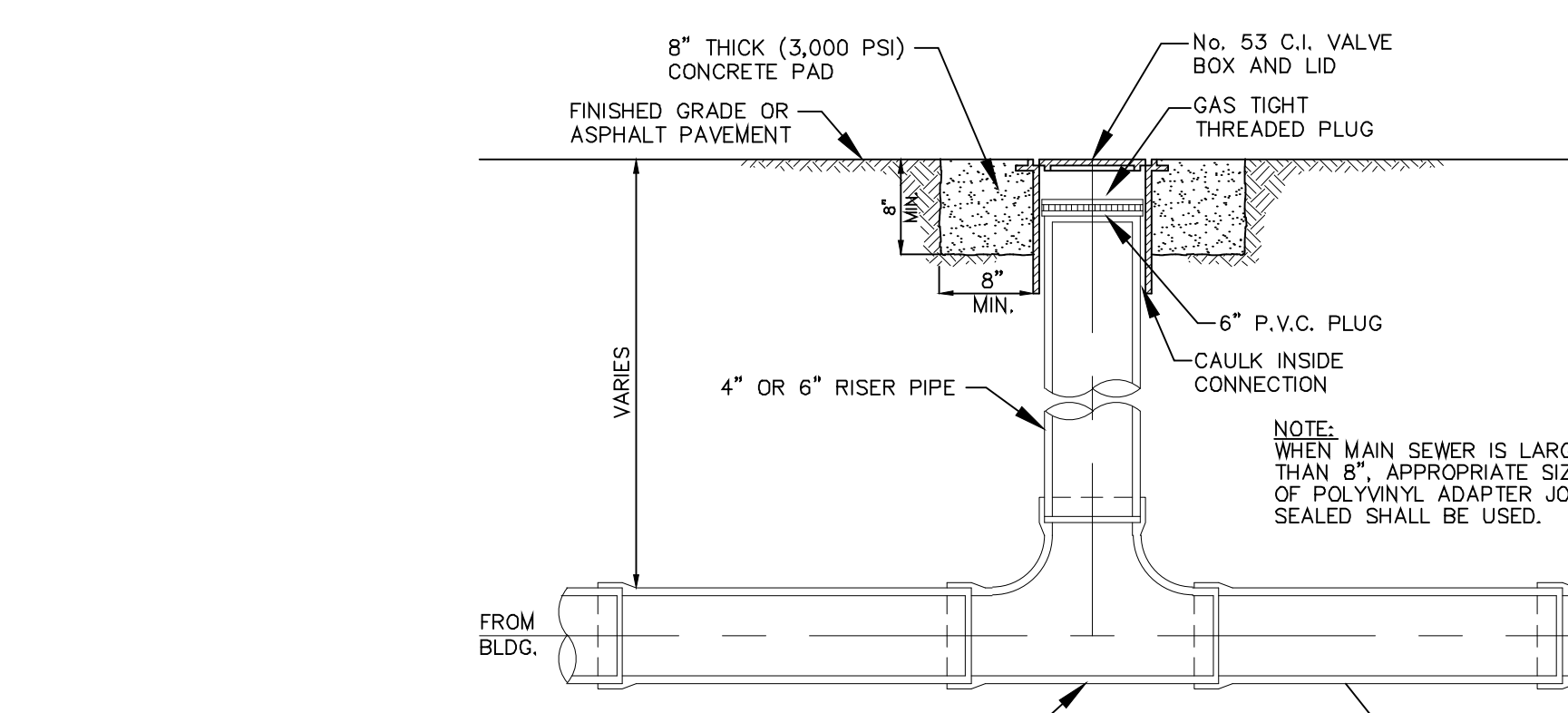
- POLYETHYLENE SERVICE LINE TO BE CONTINUOUS FROM CORPORATION STOP TO METER, NO COUPLINGS ARE PERMITTED
- KINKED OR CRIMPED PIPE AND OR TUBING SHALL BE REJECTED
- SERVICE LINES SHALL BE COVERED IN STATE D.O.T. RIGHTS-OF-WAY CONTINUOUSLY TO METER BOX (SEE DETAIL NO. WM-1A)
- SERVICES SHALL HAVE 2 COVER IN TRAFFIC AREA AND BE COVER IN NON-TRAFFIC AREA (CITY NMB & MIAMI DADE CITY RIGHTS-OF-WAY)
- W/PP NON-METALLIC SERVICE LINE WITH TO GALVANIZED COPPER WIRE OR METALLIC DETECTOR TAPE



Date	Revisions	Appr. by	Scale: N.T.S.	Fig: 350-M

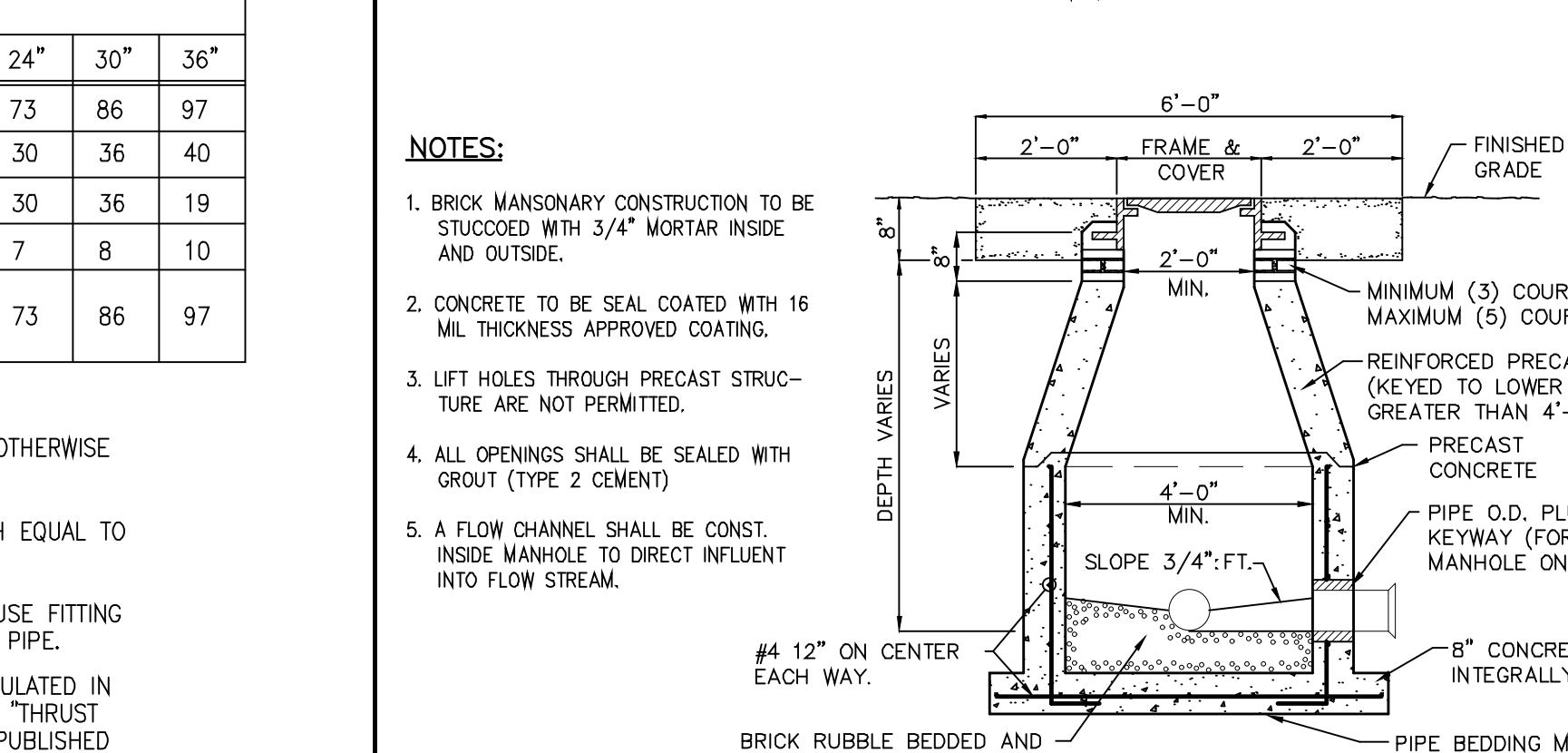


Date	Revisions	Appr. by	Scale: N.T.S.	Fig: 364a



TYPICAL DETAIL TWO WAY CLEAN-OUT N.T.S.

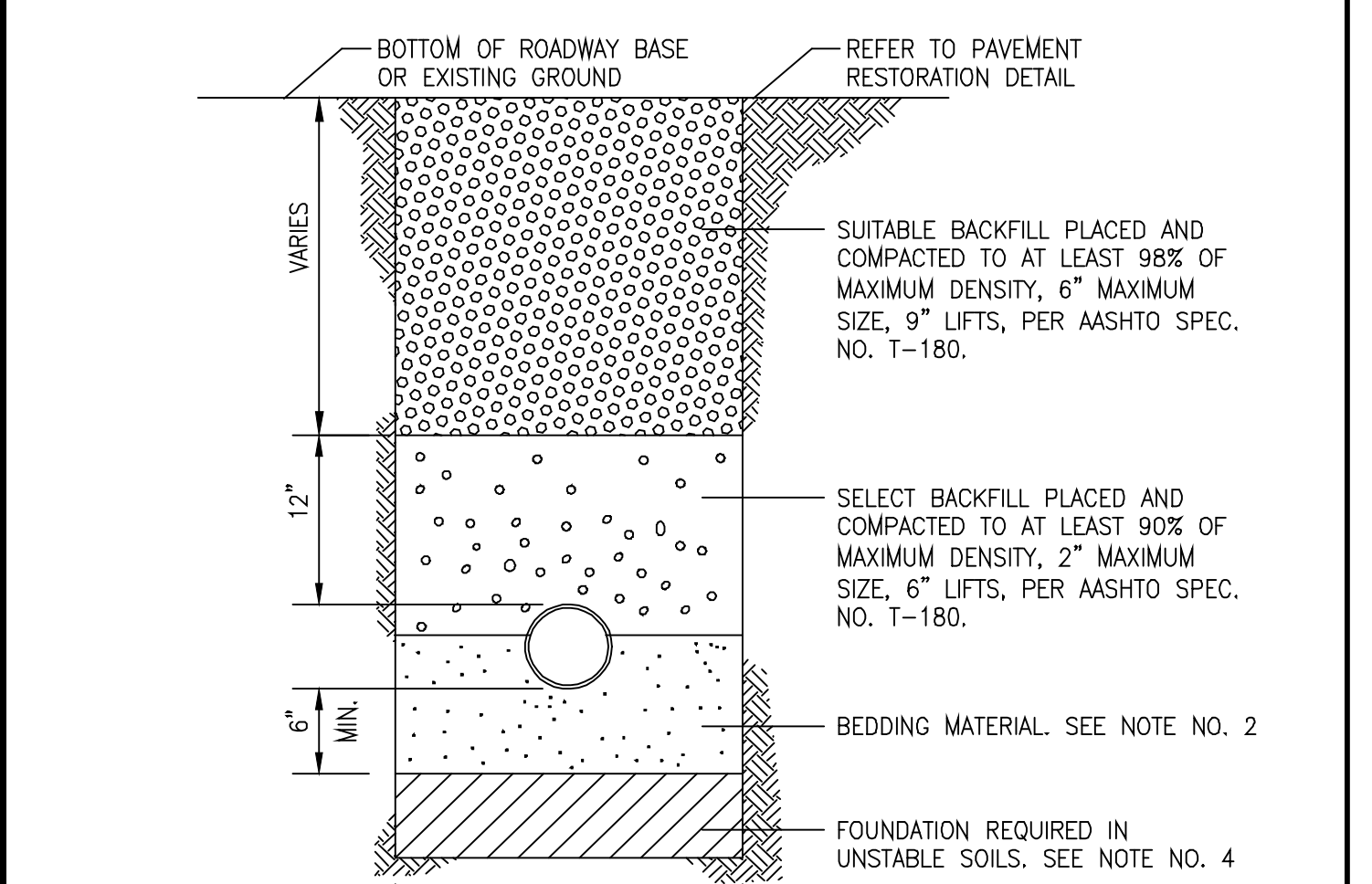
- NOTES:**
- BRICK MANSIONARY CONSTRUCTION TO BE STUCCOED WITH 3/4" MORTAR INSIDE AND OUTSIDE.
 - CONCRETE TO BE SEAL COATED WITH 16 MIL THICKNESS PROTECTIVE COATING.
 - LIFT HOLES THROUGH PRECAST STRUCTURE ARE NOT PERMITTED.
 - ALL OPENINGS SHALL BE SEALED WITH GROUT (TYPE 2 CEMENT)
 - A FLOW CHANNEL SHALL BE CONST. INSIDE MANHOLE TO DIRECT INFLUENT INTO FLOW STREAM.



TYPICAL DETAIL SANITARY SEWER STANDARD MANHOLE N.T.S.

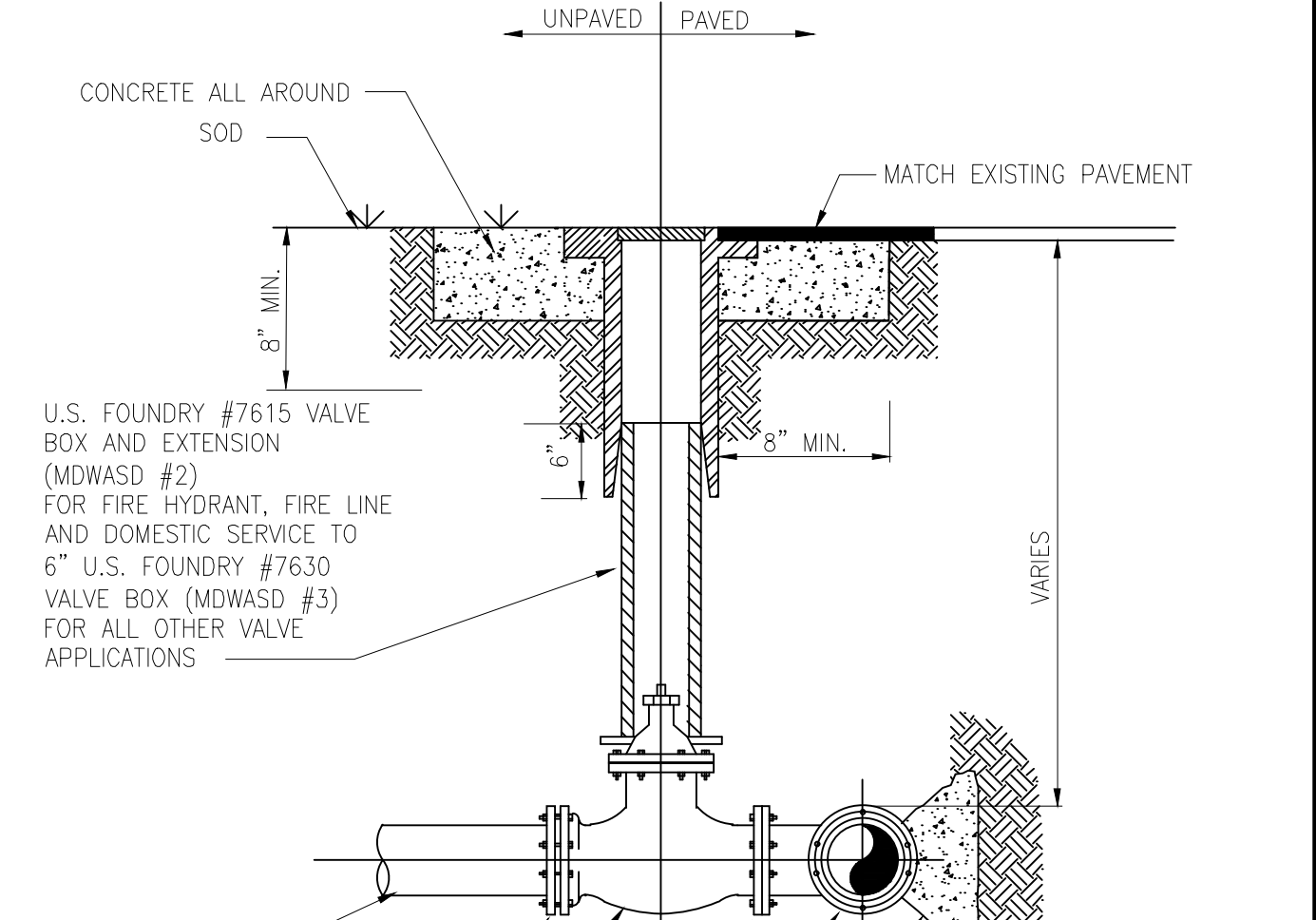
- NOTES:**
- FITTINGS SHALL BE RESTRAINED JOINTS UNLESS OTHERWISE INDICATED.
 - INSTALL FULL LENGTH JOINTS WITH TOTAL LENGTH EQUAL TO OR GREATER THAN SHOWN IN THE TABLE.
 - WHERE TWO OR MORE FITTINGS ARE TOGETHER, USE FITTING WHICH YIELDS GREATEST LENGTH OF RESTRAINED PIPE.
 - LENGTHS SHOWN IN THE TABLE HAVE BEEN CALCULATED IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" AS PUBLISHED BY DIPRA, WITH THE FOLLOWING ASSUMPTIONS:
 WORKING PRESSURE: 150 P.S.I.*
 SOIL CONDITIONS: SAND / SILT *
 MINIMUM COVER: 3 FT. *
 ENGINEER OF RECORD SHALL CONFIRM ACTUAL LAYING CONDITIONS AND INCREASE RESTRAINED LENGTHS AS REQUIRED.
 - FOR PIPE ENCASED IN POLYETHYLENE, INCREASE THE GIVEN VALUE BY A FACTOR 1.5.
 - ALL FITTINGS AND PIPE JOINTS 6" OR SMALLER MAY BE RESTRAINED USING THRUST BLOCKS. ALL OTHERS MUST BE RESTRAINED AS FOLLOWS:
 JOINT: PUSH-ON PVC, PUSH-ON DIP, FITTINGS WITH DIP, FITTINGS WITH PVC
 RESTRAINT: EBAA IRON SERIES 2800 HARNESS TR-FLEX BY U.S. PIPE OR FLEX RING BY AMERICAN EBAA IRON SERIES 1100 MEGALUG EBAA IRON SERIES 2000 MEGALUG

Date	Revisions	Appr. by	Scale: N.T.S.	Fig: 240



- NOTES:**
- FOR EXCAVATION AND BACKFILL AROUND MANHOLES, APPURTENANCES, OR IN WATER, REFER TO PROVISIONS WITHIN THE SPECIFICATIONS.
 - UNLESS OTHERWISE SPECIFIED, BEDDING MATERIAL SHALL CONSIST OF SELECT BACKFILL MATERIAL 2" MAX. SIZE, OR WASHED AND GRADED LIMEROCK (3/8" - 7/8"), COMPACTED TO AT LEAST 90% OF MAX. DENSITY, 6" LIFTS, PER AASHTO SPEC. NO. T-180.
 - WHERE REQUIRED, SHEETING AND SHORING SHALL BE IN ACCORDANCE WITH SPECIFICATION.
 - WHERE UNSTABLE SOILS ARE ENCOUNTERED, INCLUDING PEAT, MUCK OR OTHER ORGANIC SOILS, ELASTIC SILT AND CLAYS, A FOUNDATION IS REQUIRED, COMPACTED TO AT LEAST 90% OF MAX. DENSITY, 6" LIFTS PER AASHTO SPEC. NO. T-180. FOUNDATION MATERIAL SHALL BE SELECT BACKFILL MATERIAL, 2" MAXIMUM SIZE, 6" LIFTS. EXTEND EXCAVATION UNTIL A SUITABLE MATERIAL IS FOUND.
 - IN A LOW PRESSURE SEWER SYSTEM USE SAND OR 1/4" RICE ROCK FOR SELECT BEDDING AND 12" SELECT BACKFILL MATERIAL AS SHOWN ABOVE, MINIMUM 36" OF COVER.

Date	Revisions	Appr. by	Scale: N.T.S.	Fig: 250-M

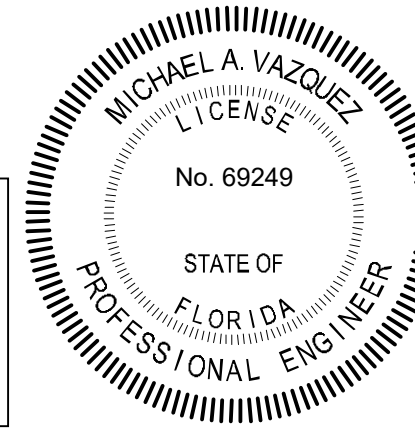


- NOTES:**
- DUCTILE IRON M.J. TAPPING SLEEVES SHALL BE USED FOR C.I. OR D.I. PIPE, WHEN MAKING A FULL DIAMETER TAP, WHERE THE TAP IS LESS THAN THE DIAMETER OF THE EXISTING MAIN, A STAINLESS STEEL SLEEVE MAY BE USED.
 - TAP SLEEVE TO BE ROMAC STAINLESS STEEL STYLE (SST) OR JCM 432 FOR A.C. OR PLASTIC PIPE.
 - WHEN TAPPING INTO A FORCE MAIN, AFTER COMPLETION OF THE TAPPING OPERATION, A PLUG VALVE SHALL BE INSTALLED AFTER THE TAPPING VALVE.

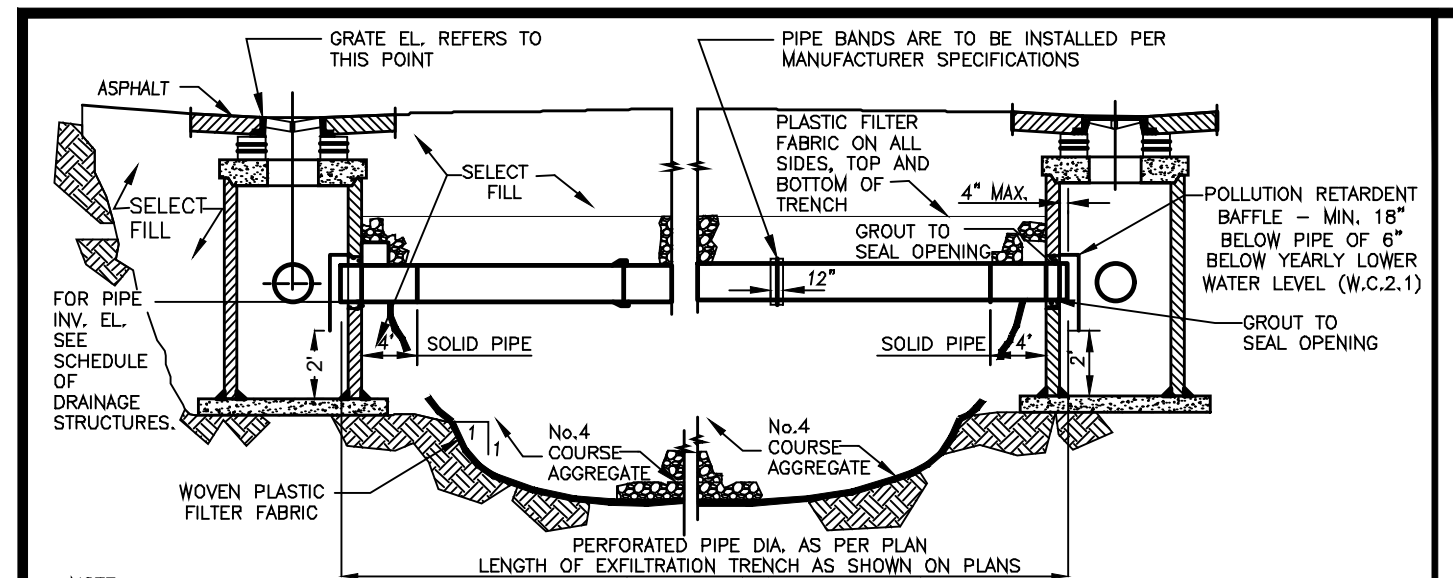
Date	Revisions	Appr. by	Scale: N.T.S.	Fig: 264

	MINIMUM LENGTH (FT) TO BE RESTRAINED ON EACH SIDE OF FITTING(S) *								
	PIPE SIZE								
	6"	8"	10"	12"	16"	20"	24"	30"	36"
90° BEND	23	30	36	42	53	63	73	86	97
45° BEND	10	12	15	17	22	26	30	36	40
22-1/2° BEND	5	6	7	8	11	26	30	36	19
11-1/4° BEND	2	3	4	4	5	6	7	8	10
PLUG, BRANCH OF TEE OR DEAD END	23	30	36	42	53	63	73	86	97

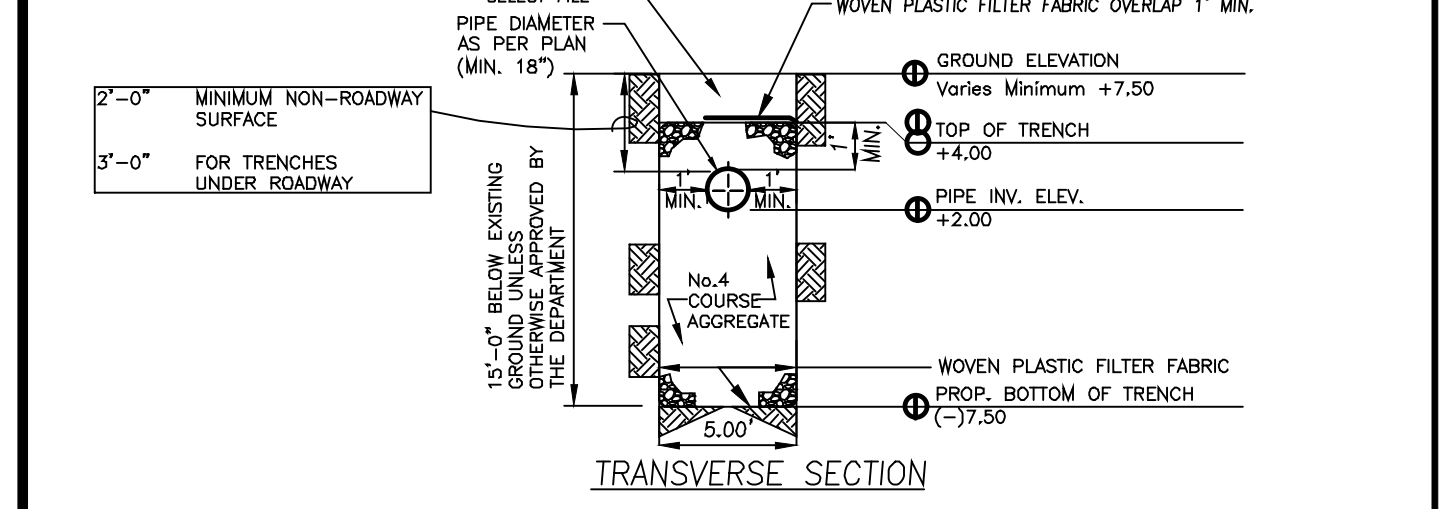
Date	Revisions	Appr. by	Scale: N.T.S.	Fig: 240



This item has been digitally signed and sealed by Michael A. Vazquez, 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.



NOTE:
1. 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.



NOTE:
* 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 ENGINEER'S 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 EQUAL TO 50 gal/min.
2. MAXIMUM EXFILTRATION WHICH CAN BE USED IN CALCULATING FRENCH DRAIN LENGTH IS 0.1 cfs/ft.

MIAMI-DADE COUNTY PUBLIC WORKS AND WASTE MANAGEMENT

APPROVED 04/16/2015

REVISED 02/08/2011 09/26/2012 10/19/2012

STANDARD STORM DRAINAGE DETAIL EXFILTRATION TRENCH (FRENCH DRAIN)

SD 1.1 SHEET 1 OF 2

NOTES - CONTINUED

- 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.
- No trees to be planted within 5 feet of the edge of the trench.
- Type "D" S.D. 2.6 structure is recommended for small drainage areas less than 0.2 acre per catch basin.
- Type "U" S.D. 2.6 structure is recommended for areas larger than 0.2 acre
- All inverts of perforated pipes to be at mean high October water table W.C. 2.2
- Pipes can be allowed below mean high October water table due to utility conflicts or in order to provide the required minimum cover.
- Neoprene gasket required for baffles on all contact edges mounted on wall.
- 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 spaces or more.
- Oil and grease baffle may be waived in suburban residential areas.

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.

PIPE DIAMETER (inches)	MINIMUM NUMBER OF PERFORATION IN PIPE CULVERTS	
	OUTER SHELL (PER LIN. FT. OF PIPE)	LINER (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.

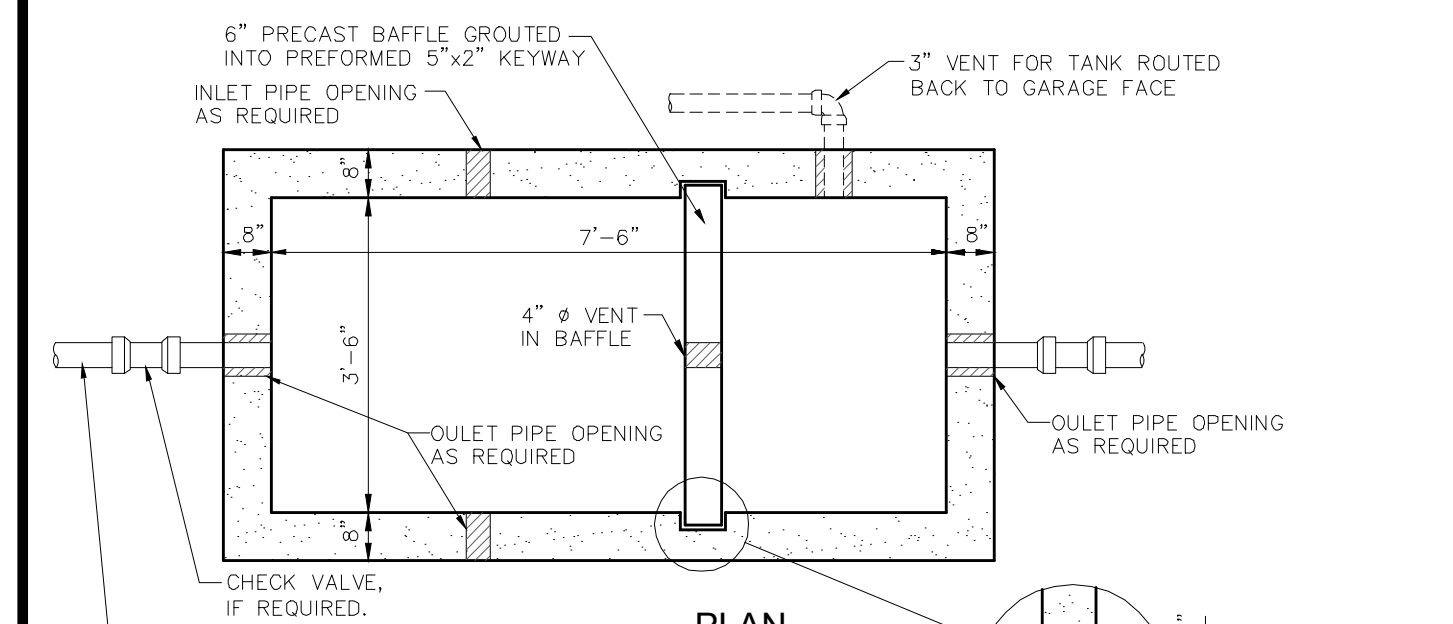
MIAMI-DADE COUNTY PUBLIC WORKS AND WASTE MANAGEMENT

APPROVED 04/16/2015

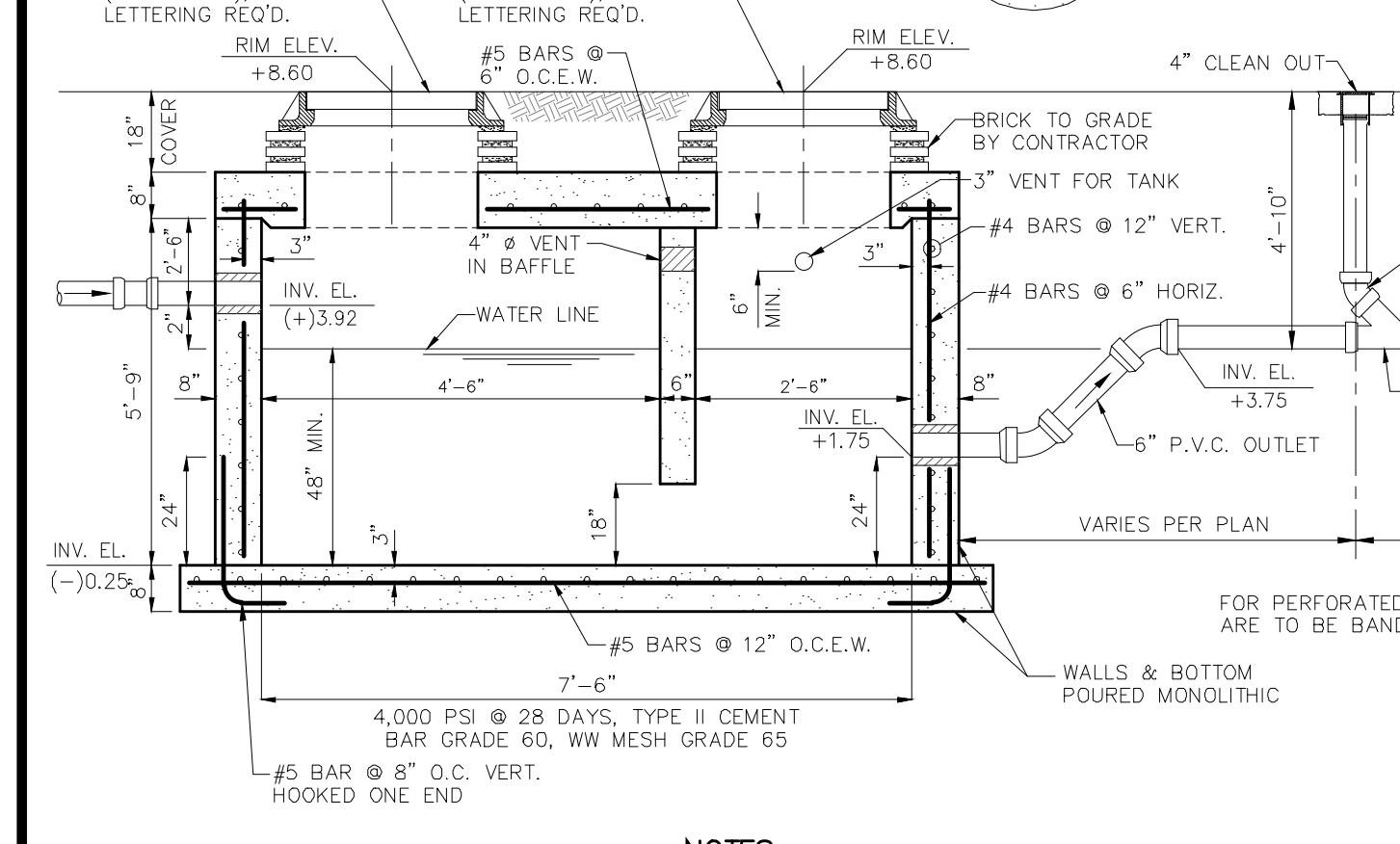
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STANDARD STORM DRAINAGE DETAIL EXFILTRATION TRENCH (PIPE CULVERT NOTES)

SD 1.1 SHEET 2 OF 2

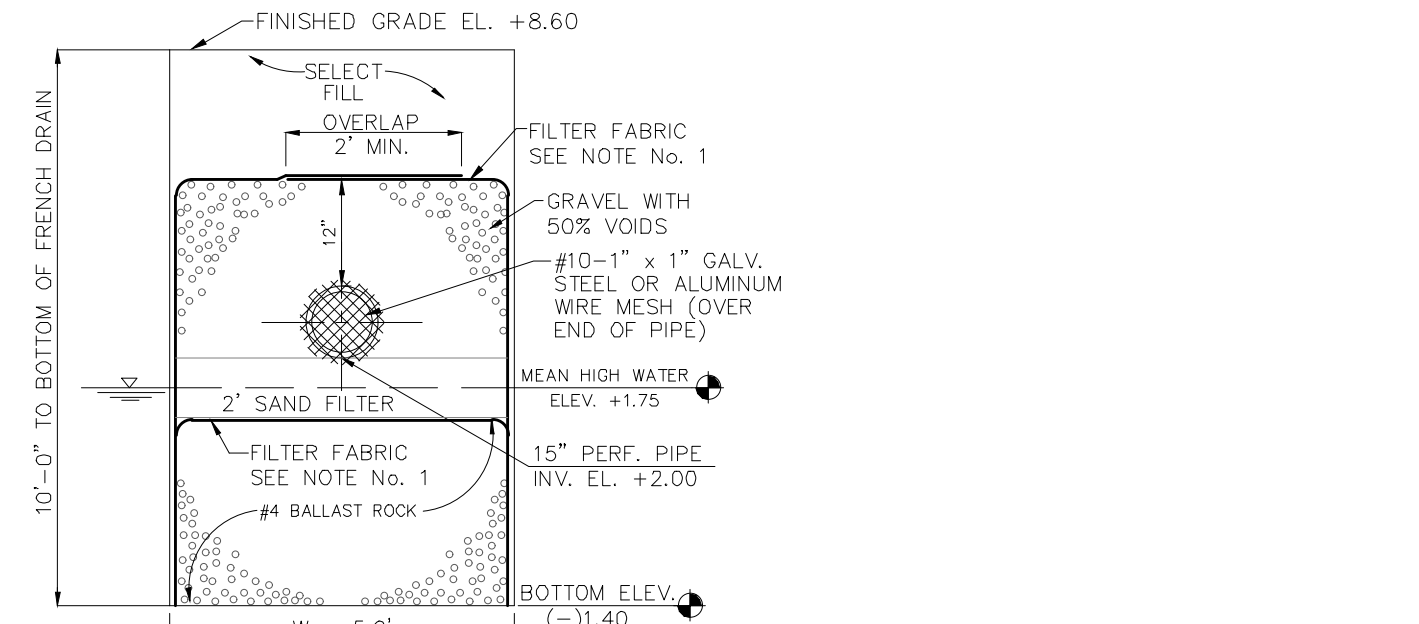


NOTE:
1. NON-WOVEN PLASTIC FILTER FABRIC PER F.D.O.T. STANDARD INDEX #199 (TYPE D-3 FOR FRENCH DRAIN) SHALL BE USED AT EACH SIDE AND ON TOP, AND AT EACH END OF FRENCH DRAIN TRENCH. SHOP SPECS. AND A SAMPLE OF THE MATERIAL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING AND INSTALLING THE FABRIC.
2. THE BOTTOM OF THE EXFILTRATION TRENCH SHALL BE AT ELEV. (-)1.40, N.G.V.D. UNLESS OTHERWISE SHOWN.
3. 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.

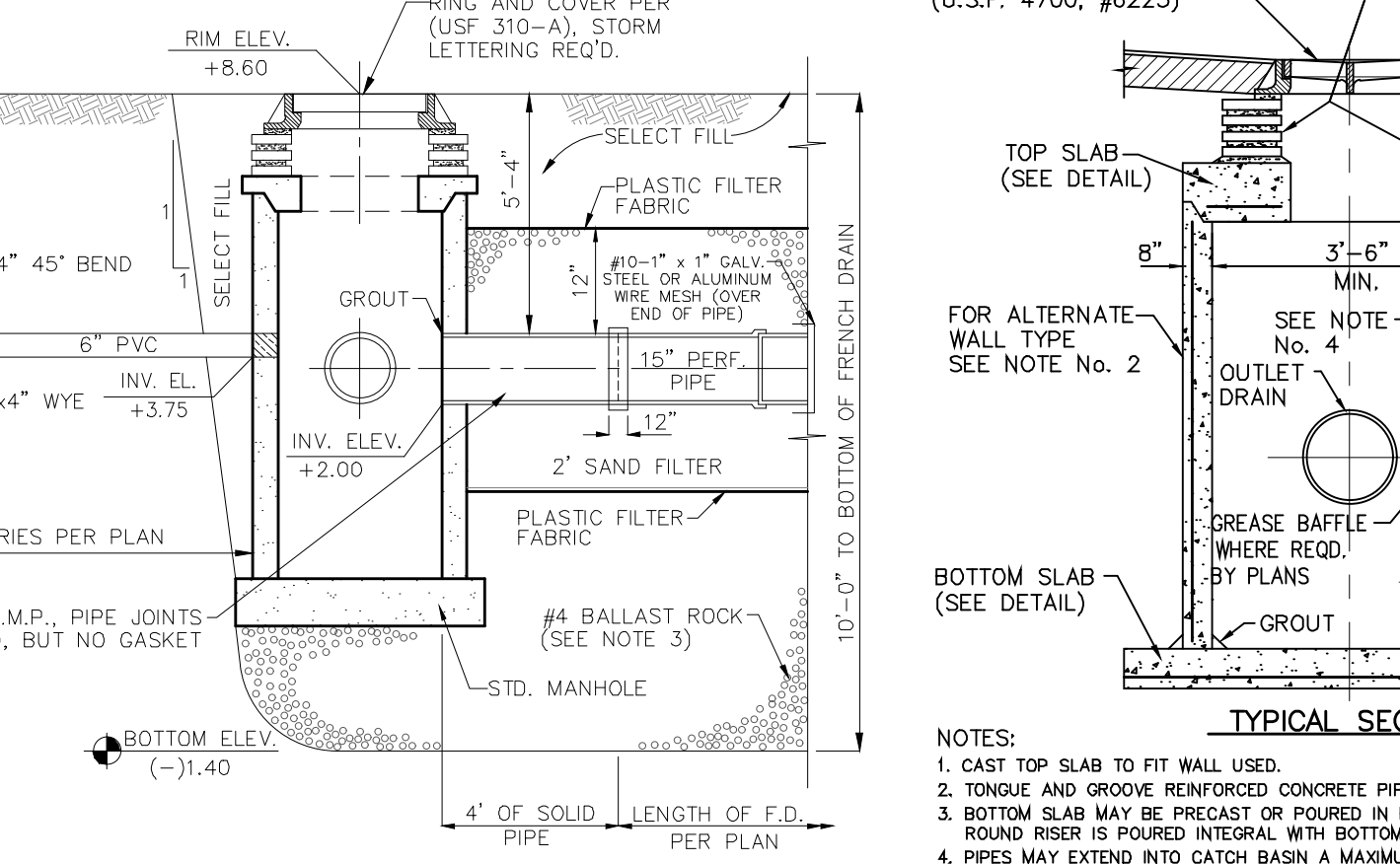


NOTES:
1. CAST TOP SLAB TO FIT WALL USED.
2. TONGUE AND GROOVE REINFORCED CONCRETE PIPE A.S.T.M. DESIGNATION C-76 CLASS III ROUND RISER IS POURED INTEGRAL WITH BOTTOM.
3. BOTTOM SLAB MAY BE PRECAST OR POURED IN PLACE REINFORCING MUST BE USED WHEN ROUND RISER IS POURED INTEGRAL WITH BOTTOM.
4. PIPES MAY 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. 3/8" SUMP REQUIRED WHEN GREASE BAFFLE IS USED 2" SUMP REQUIRED WITH OUT BAFFLE.
10. SUMP TO BE 2'0" BELOW BOTTOM OF BAFFLE AND BOTTOM OF BAFFLE TO BE 18" BELOW INVERT OF PIPE.

TYPICAL SECTION OIL INTERCEPTOR and EXFILTRATION TRENCH DETAIL N.T.S.



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TYPICAL SECTION PRECAST CATCH BASIN N.T.S.

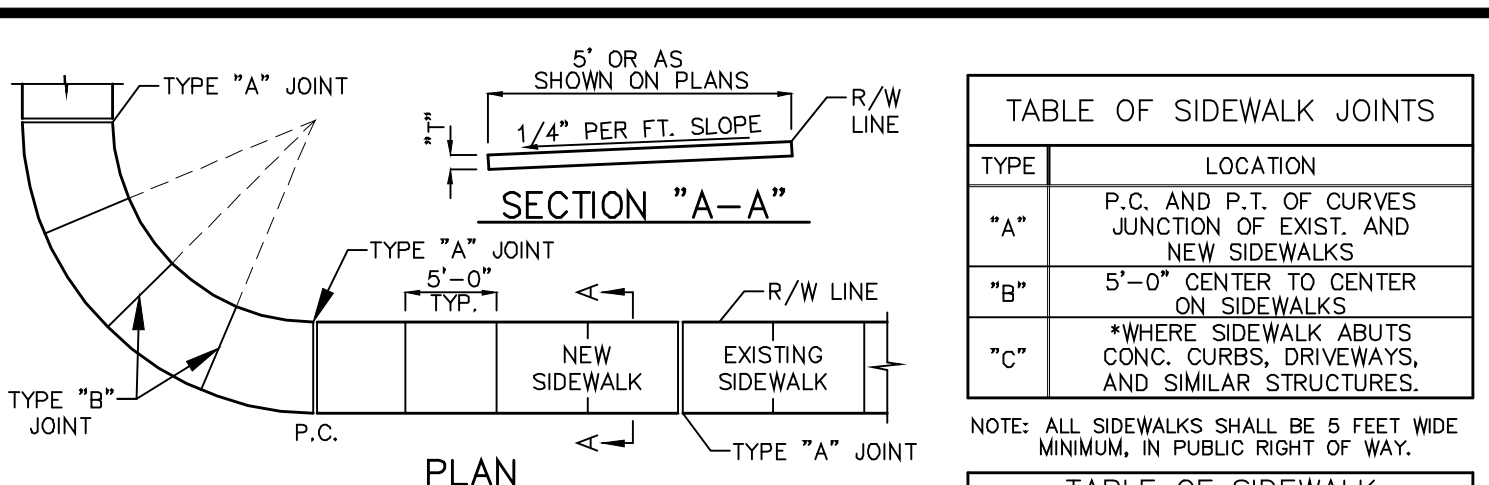


TABLE OF SIDEWALK JOINTS

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.

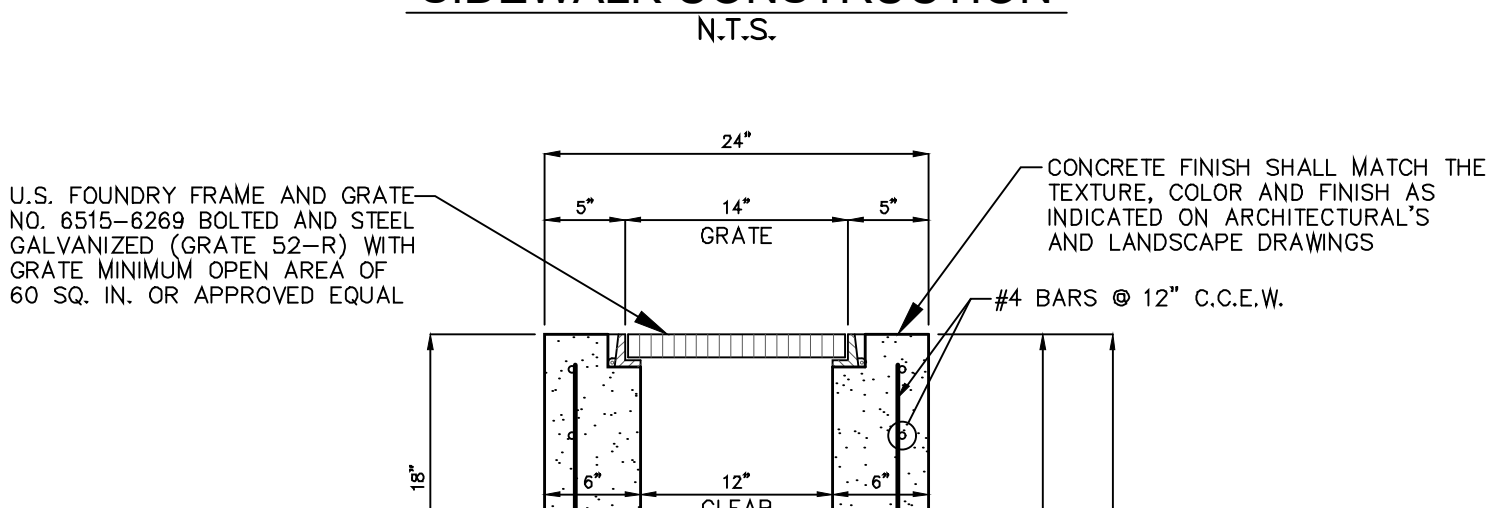
NOTE: ALL SIDEWALKS SHALL BE 6 FEET WIDE MINIMUM, IN PUBLIC RIGHT OF WAY.

TABLE OF SIDEWALK THICKNESS - "T"

LOCATION	"T"
RESIDENTIAL AREAS	4"
DRIVEWAYS & OTHER AREAS	6"

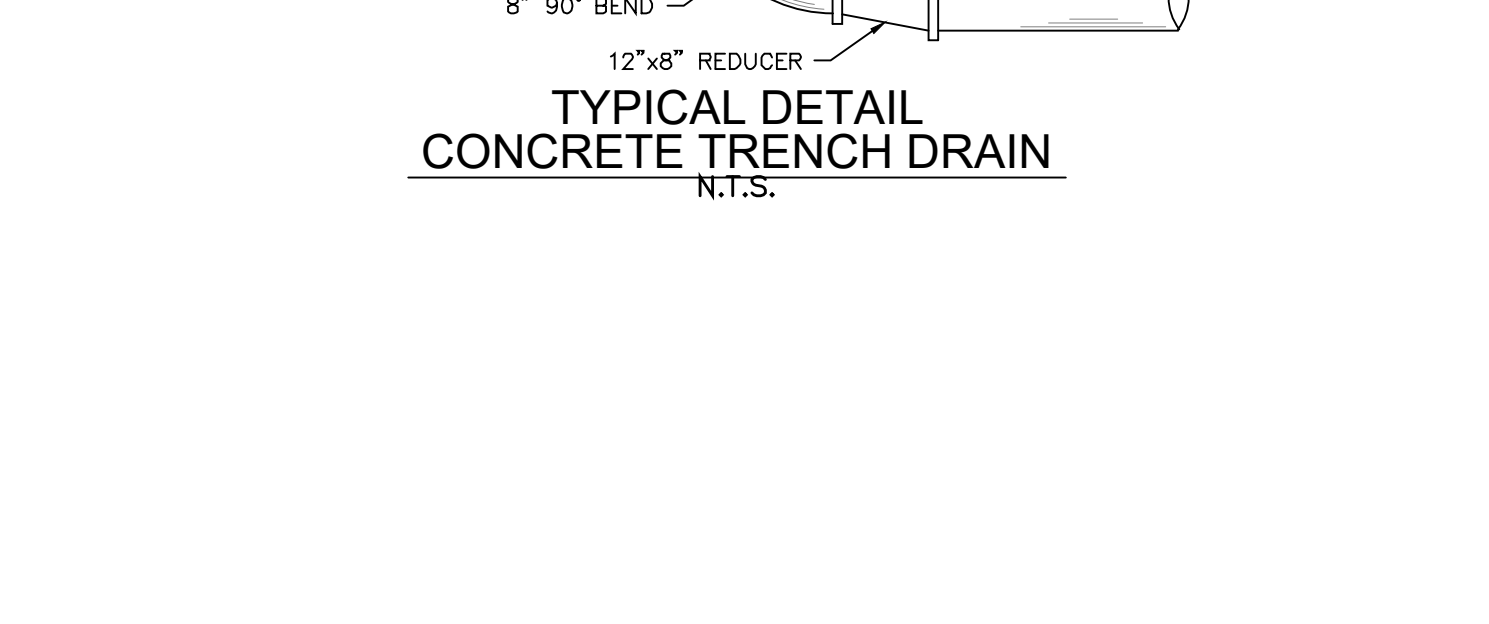
* AT THE DISCRETION OF THE ENGINEER

NOTE:
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.

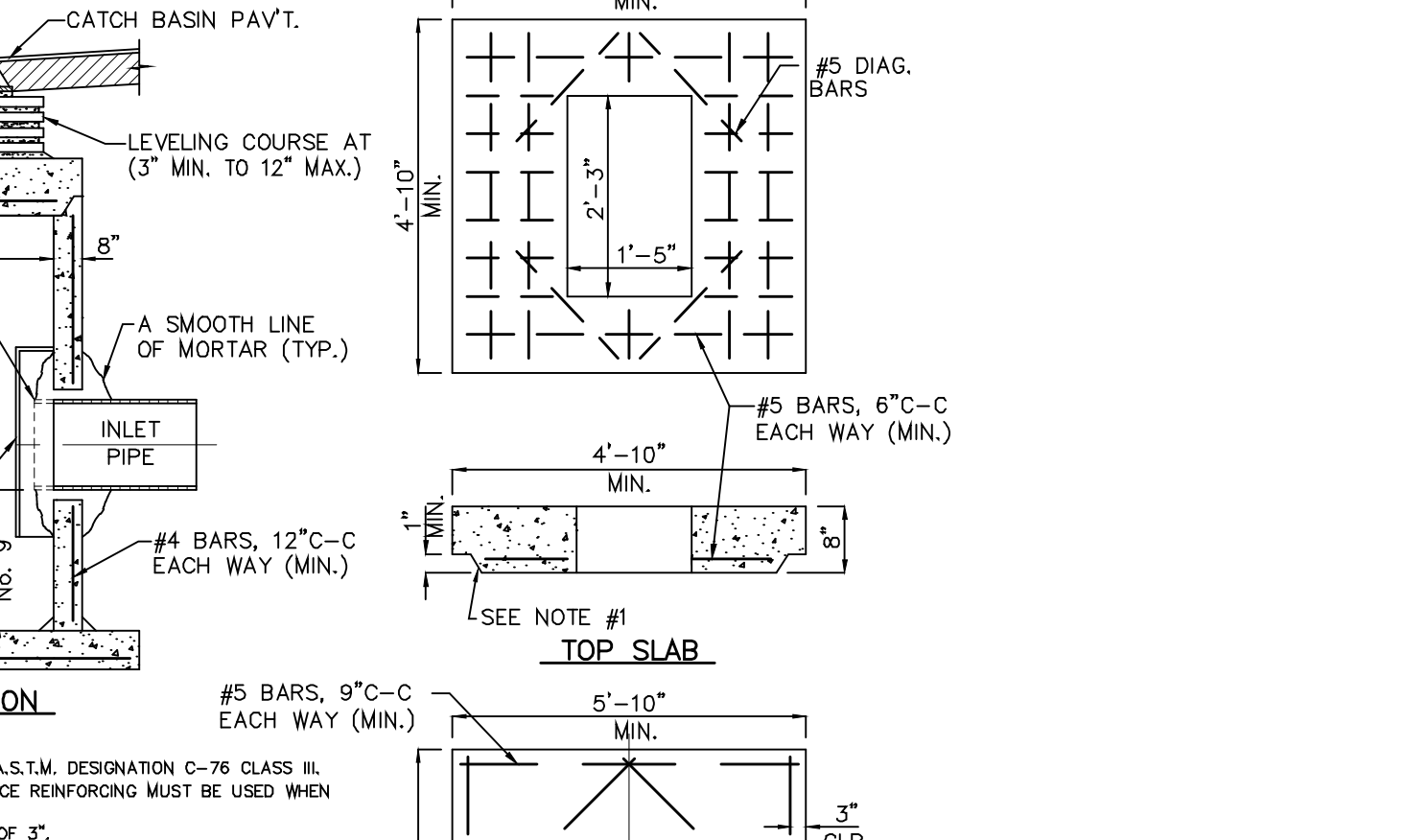


NOTE:
U.S. FOUNDRY FRAME AND GRATE, NO. 6515-6269 BOLTED AND STEEL GALVANIZED (GRATE 52-F) WITH GRATE MINIMUM OPEN AREA OF 60 SQ. IN. OR APPROVED EQUAL

TYPICAL DETAIL SIDEWALK CONSTRUCTION N.T.S.



NOTE:
CONCRETE FINISH SHALL MATCH THE TEXTURE, COLOR AND FINISH AS INDICATED ON ARCHITECTURAL'S AND LANDSCAPE DRAWINGS



NOTES:
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TYPICAL DETAIL PRECAST CATCH BASIN N.T.S.

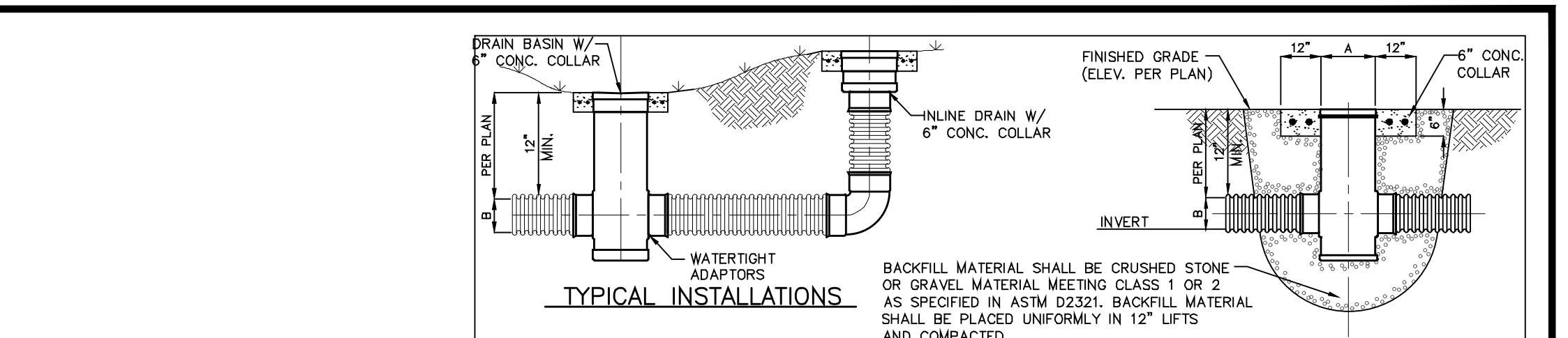


TABLE OF SIDEWALK JOINTS

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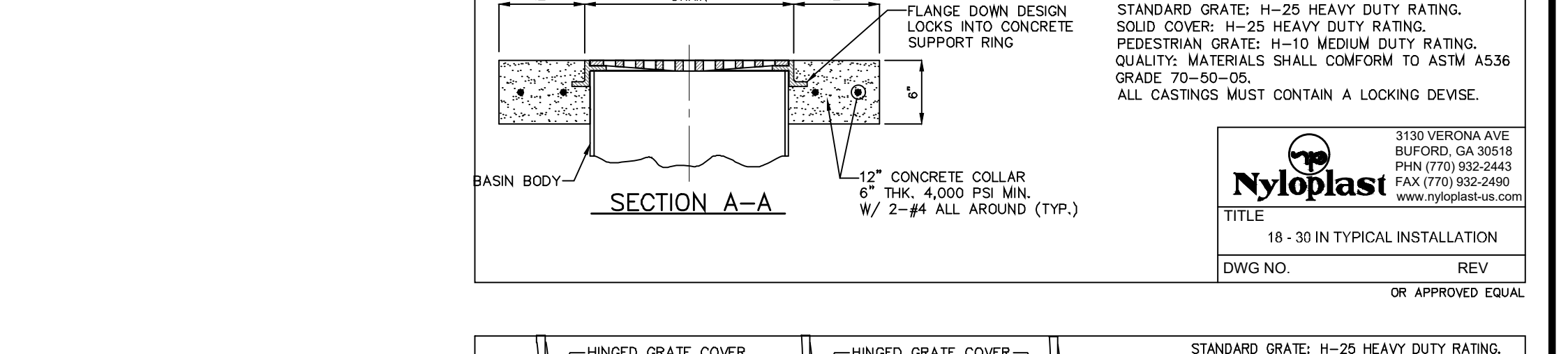
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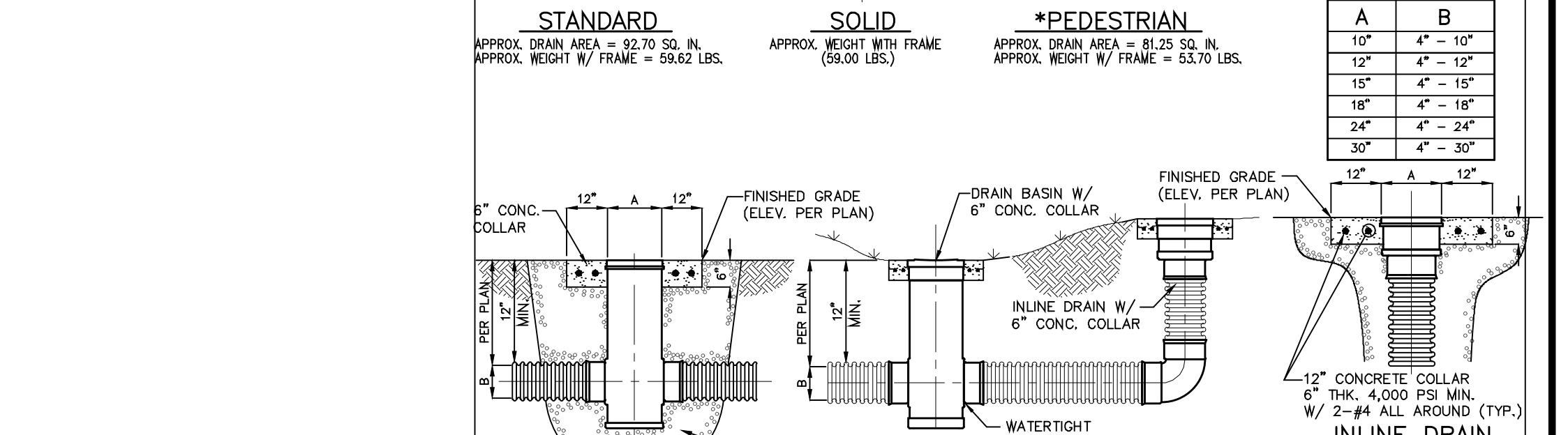
* AT THE DISCRETION OF THE ENGINEER

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NOTE:
STANDARD GRATE: H-25 HEAVY DUTY RATING. SOLID COVER: H-25 HEAVY DUTY RATING. PEDESTRIAN GRATES: H-10 MEDIUM DUTY RATING. QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05. ALL CASTINGS MUST CONTAIN A LOCKING DEVICE.

TYPICAL DETAIL SIDEWALK CONSTRUCTION N.T.S.



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TYPICAL DETAIL CONCRETE TRENCH DRAIN N.T.S.



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TYPICAL DETAIL CONCRETE TRENCH DRAIN N.T.S.

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No.	Date	Revision Description

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 / Fax 305-651-7152 / Email fls@flssurvey.com

Drawn By: REP

Ref. Dwg.: 2019-0104-NGVD

Date Plotted: 6/21/2022 11:01 AM

Cad. No.: 220177CP

Scale: As Shown

Job No.: 210930

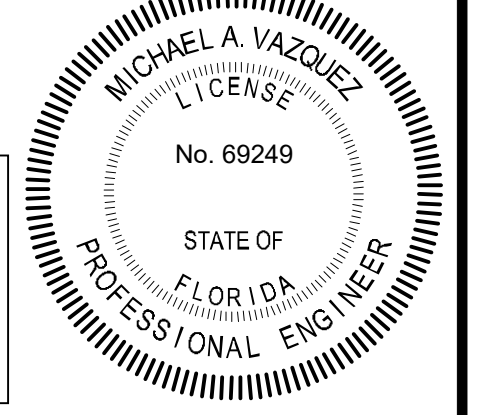
10245 Collins Avenue Bal Harbour Village, Florida

THE RESIDENCES OF BAL HARBOUR CIVIL SITE PLAN - Paving and Drainage Details

Date: 03/23/2022

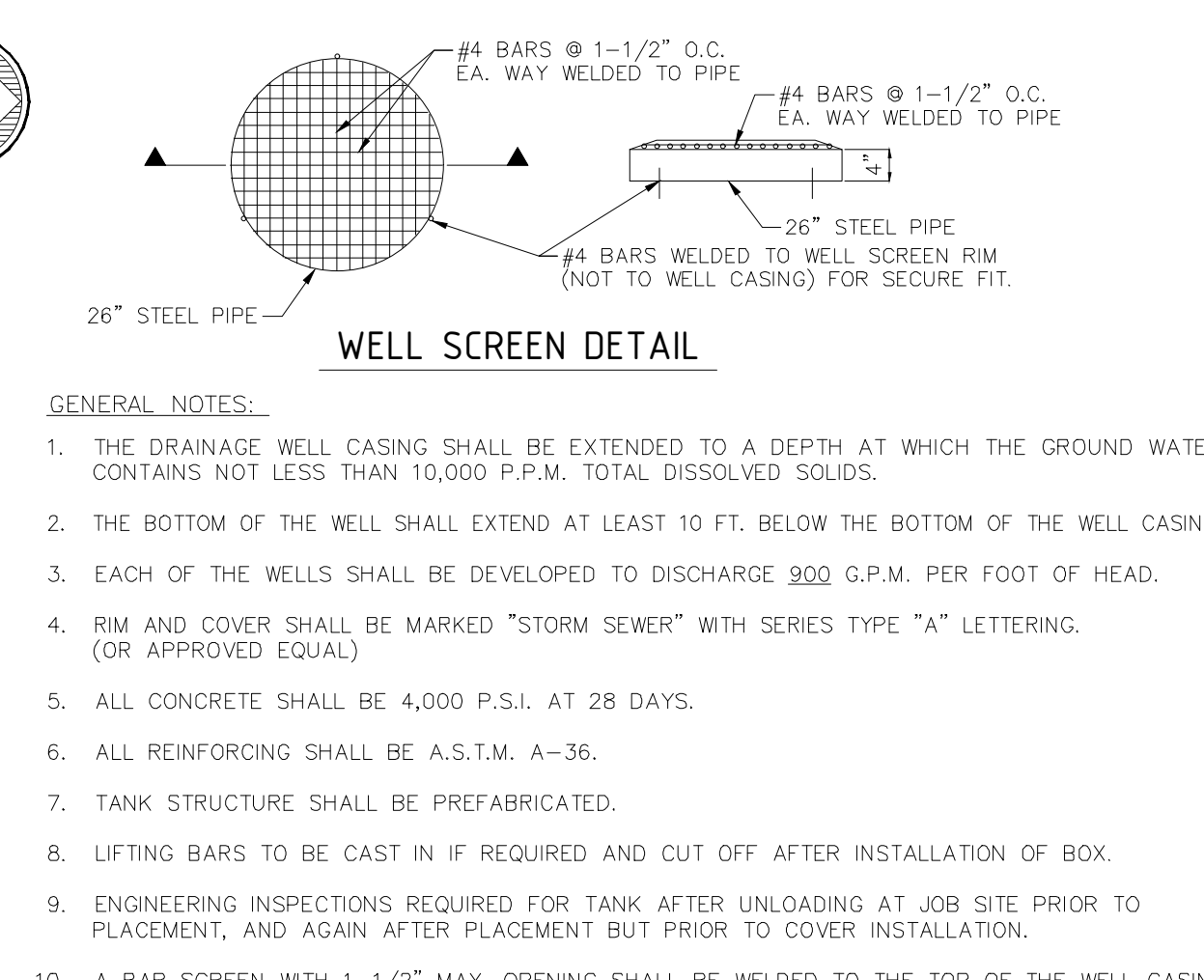
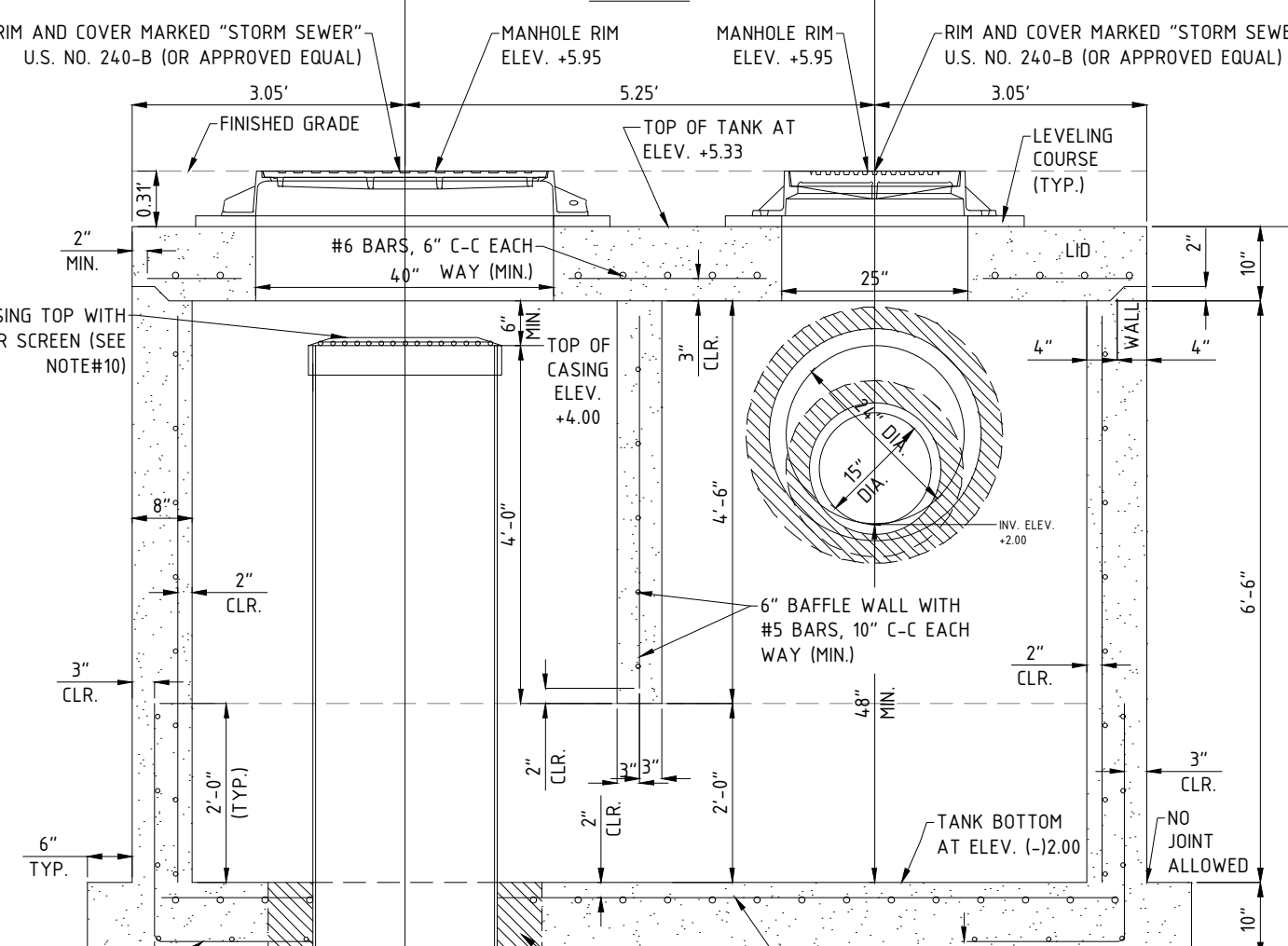
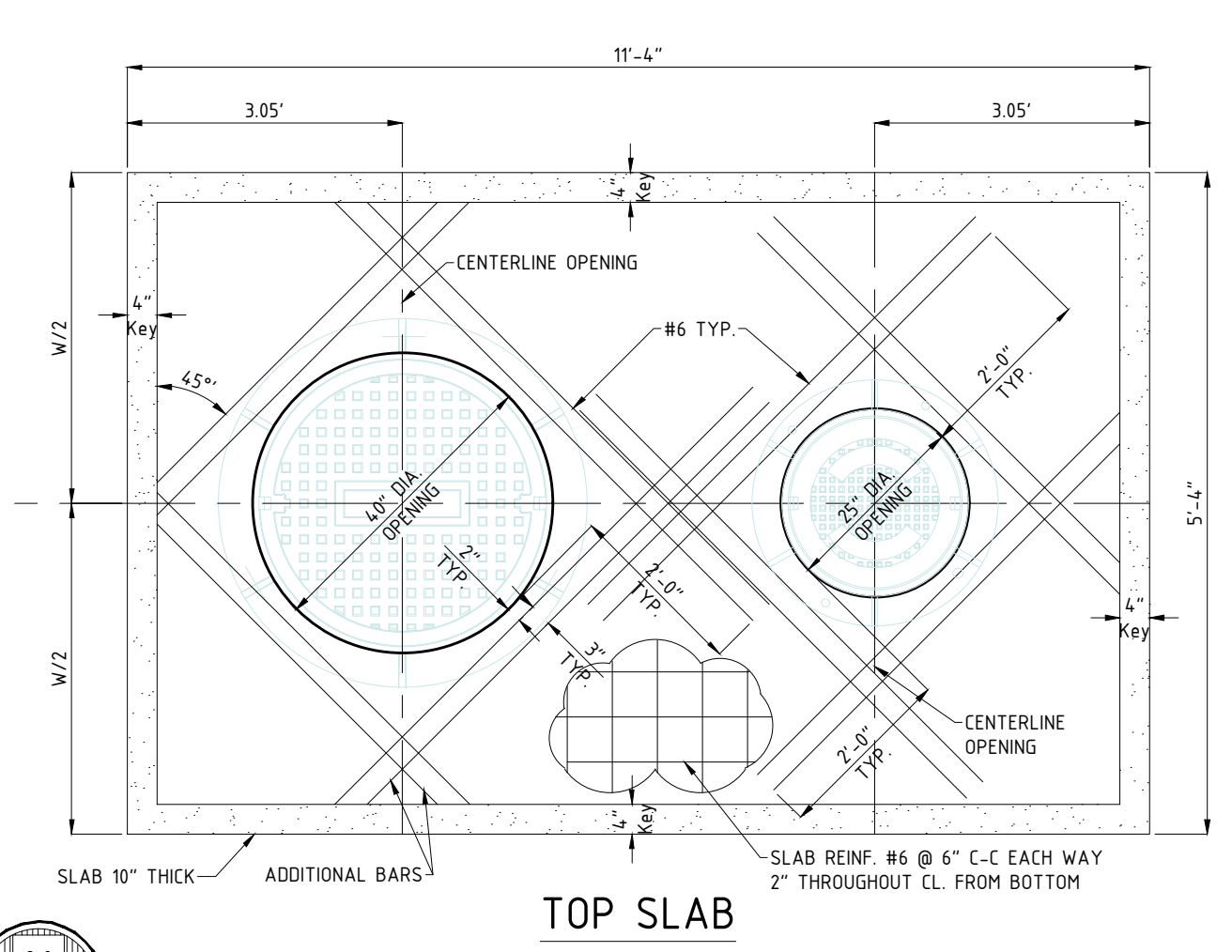
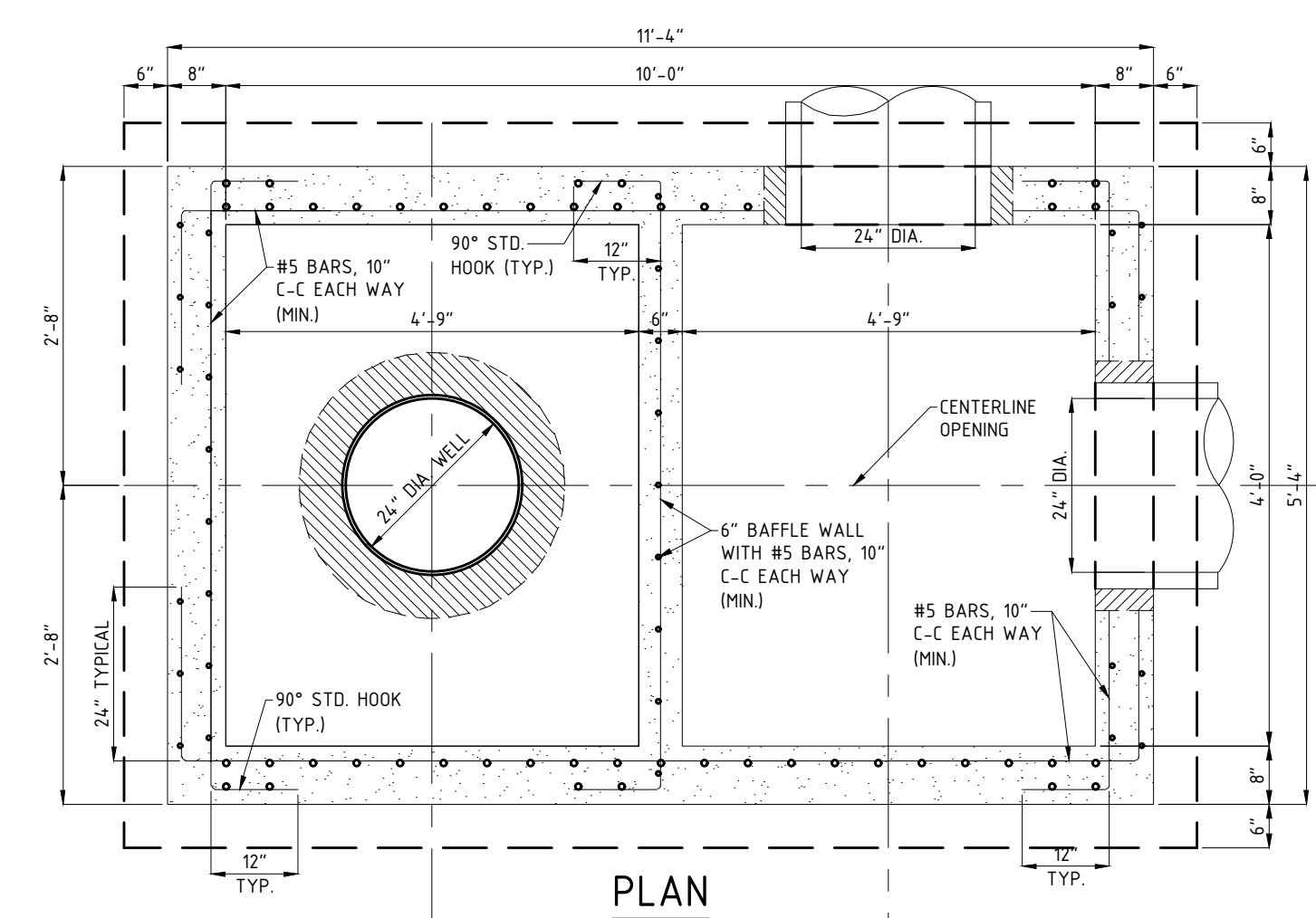
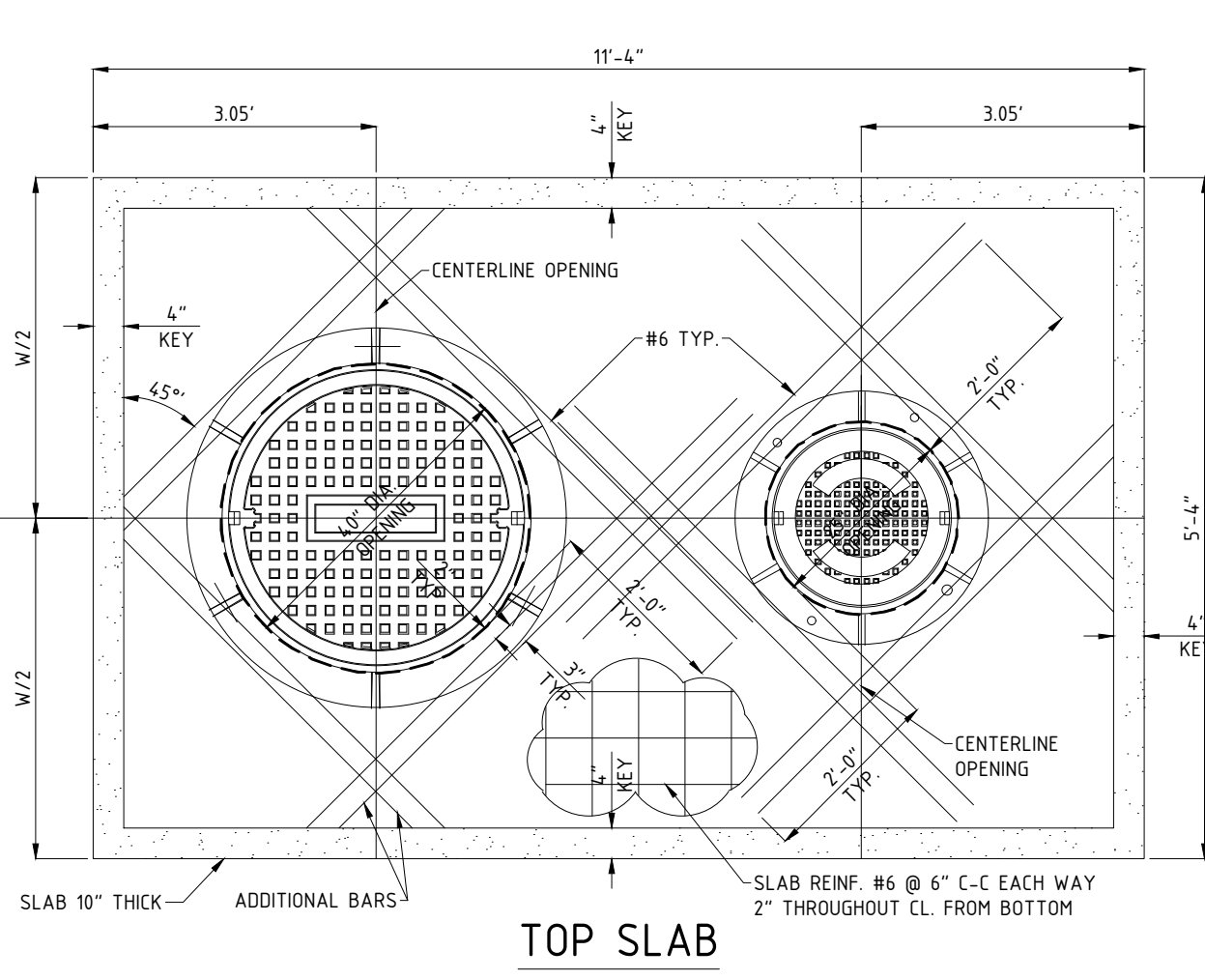
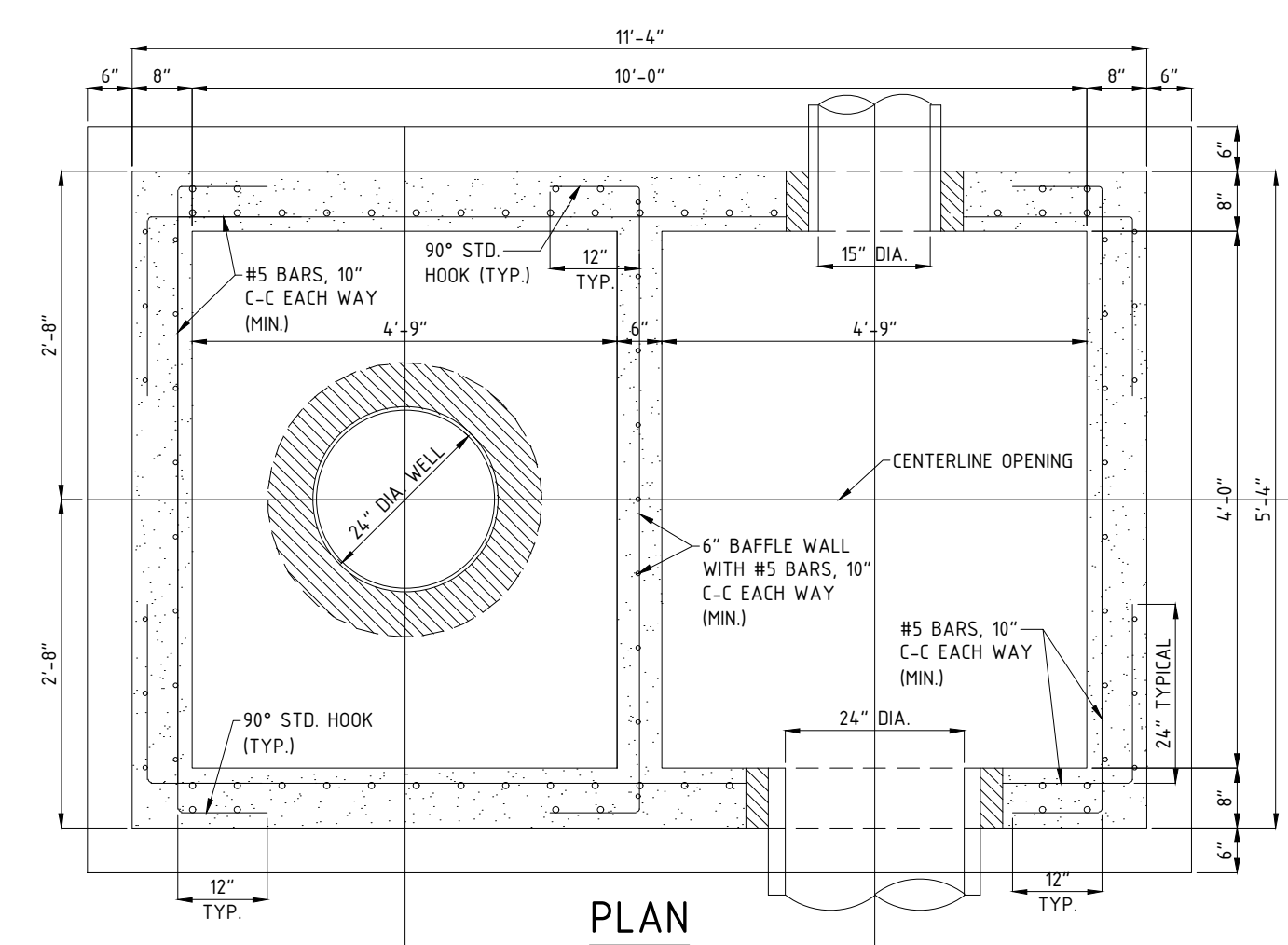
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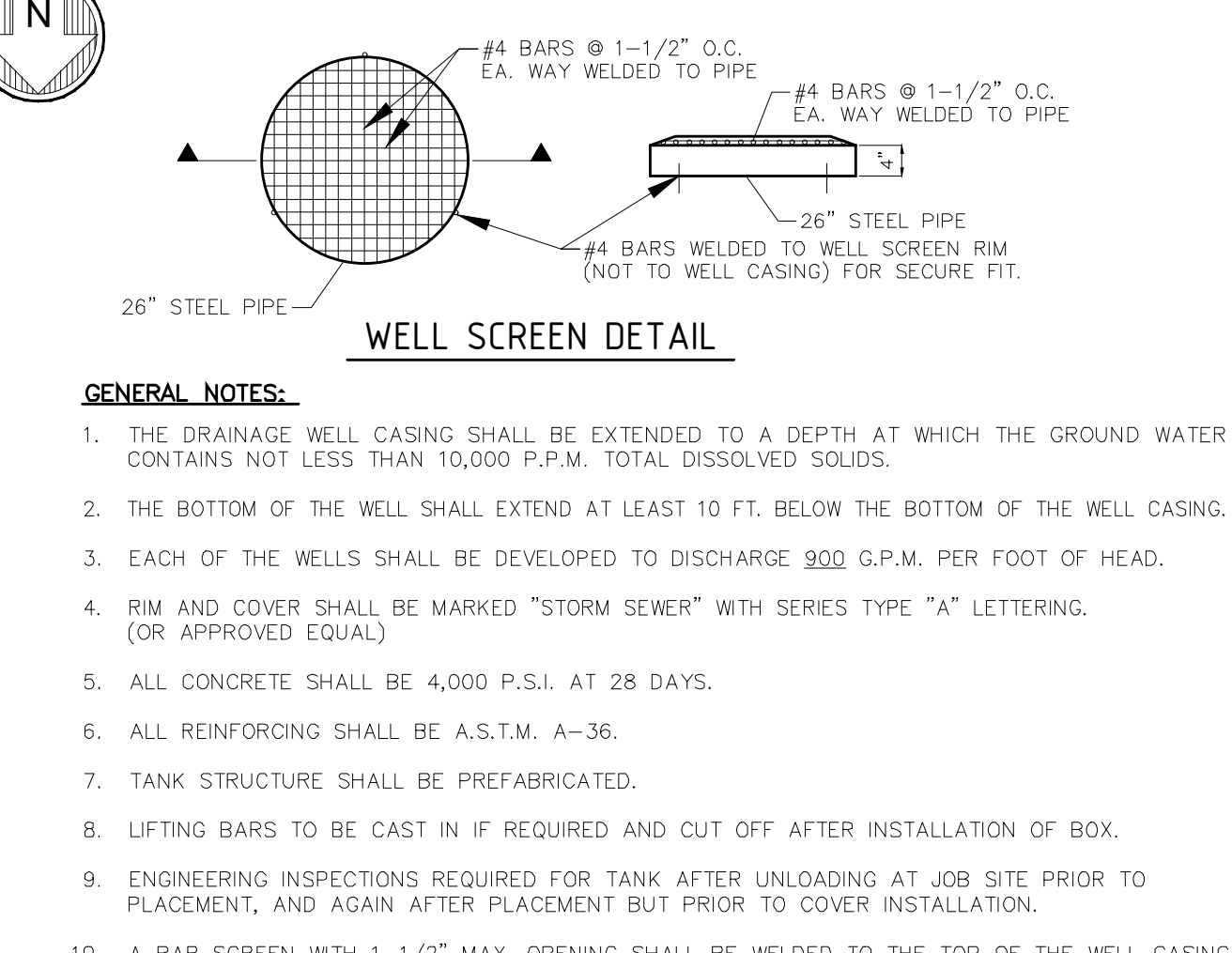
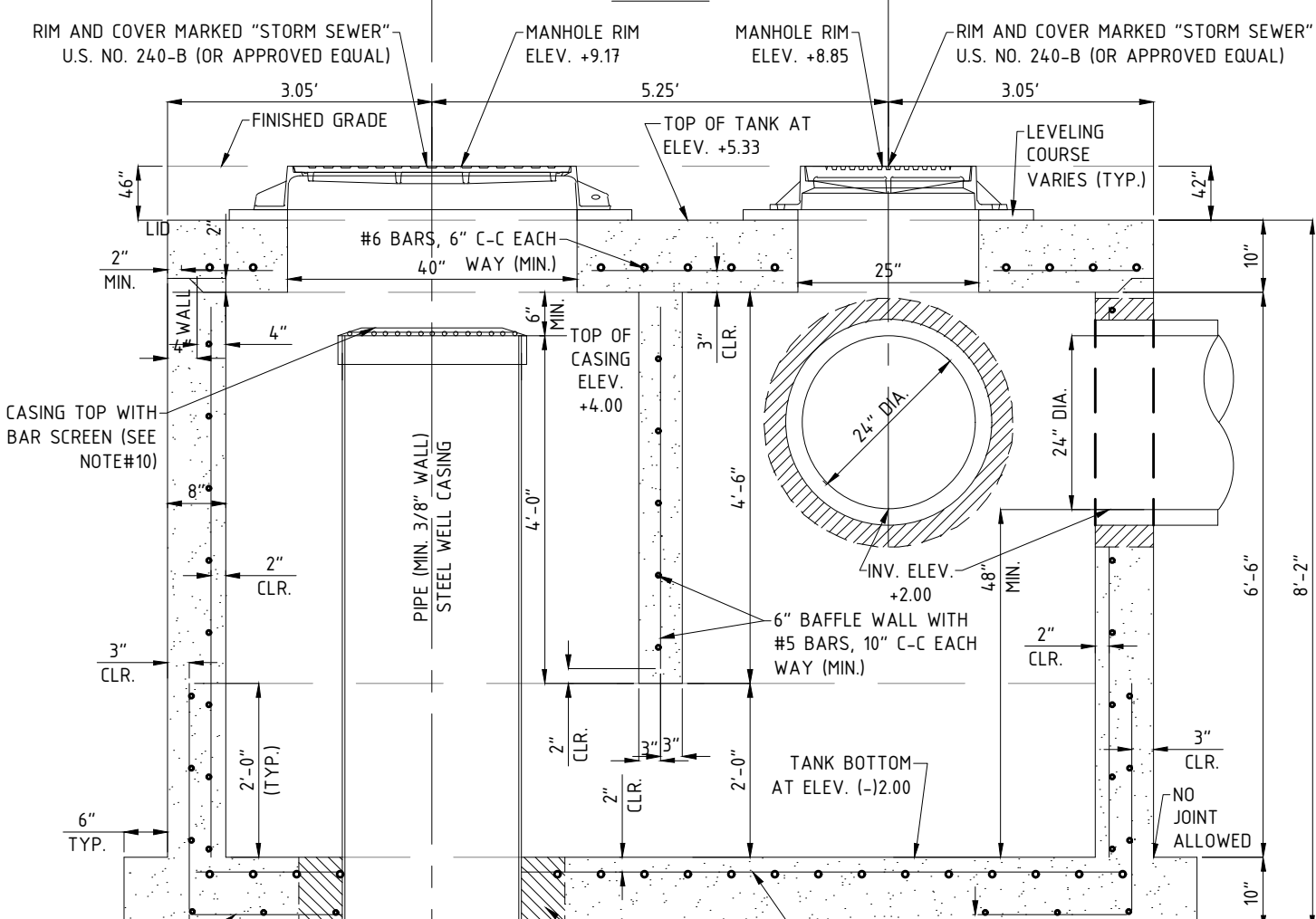
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GENERAL NOTES:

1. THE DRAINAGE WELL CASING SHALL BE EXTENDED TO A DEPTH AT WHICH THE GROUND WATER CONTAINS NOT LESS THAN 10,000 P.P.M. TOTAL DISSOLVED SOLIDS.
2. THE BOTTOM OF THE WELL SHALL EXTEND AT LEAST 10 FT. BELOW THE BOTTOM OF THE WELL CASING.
3. EACH OF THE WELLS SHALL BE DEVELOPED TO DISCHARGE 900 G.P.M. PER FOOT OF HEAD.
4. RIM AND COVER SHALL BE MARKED "STORM SEWER" WITH SERIES TYPE "A" LETTERING. (OR APPROVED EQUAL)
5. ALL CONCRETE SHALL BE 4,000 P.S.I. AT 28 DAYS.
6. ALL REINFORCING SHALL BE A.S.T.M. A-36.
7. TANK STRUCTURE SHALL BE PREFABRICATED.
8. LIFTING BARS TO BE CAST IN IF REQUIRED AND CUT OFF AFTER INSTALLATION OF BOX.
9. ENGINEERING INSPECTIONS REQUIRED FOR TANK AFTER UNLOADING AT JOB SITE PRIOR TO PLACEMENT, AND AGAIN AFTER PLACEMENT BUT PRIOR TO COVER INSTALLATION.
10. A BAR SCREEN WITH 1-1/2" MAX. OPENING SHALL BE WELDED TO THE TOP OF THE WELL CASING (SEE DETAIL ABOVE).

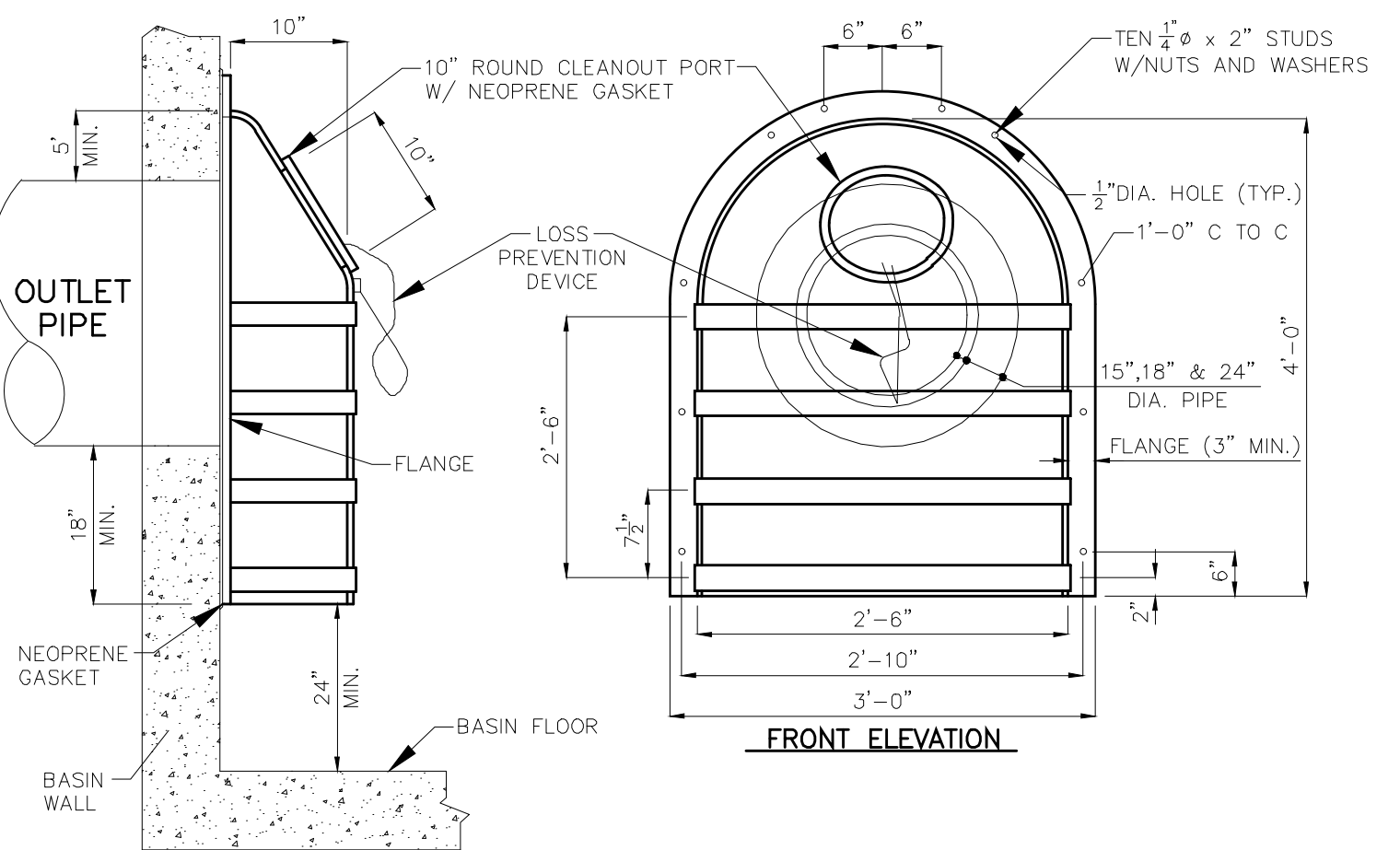


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TYPICAL DETAIL DRAINAGE TANK AND WELL No. 1
N.T.S.

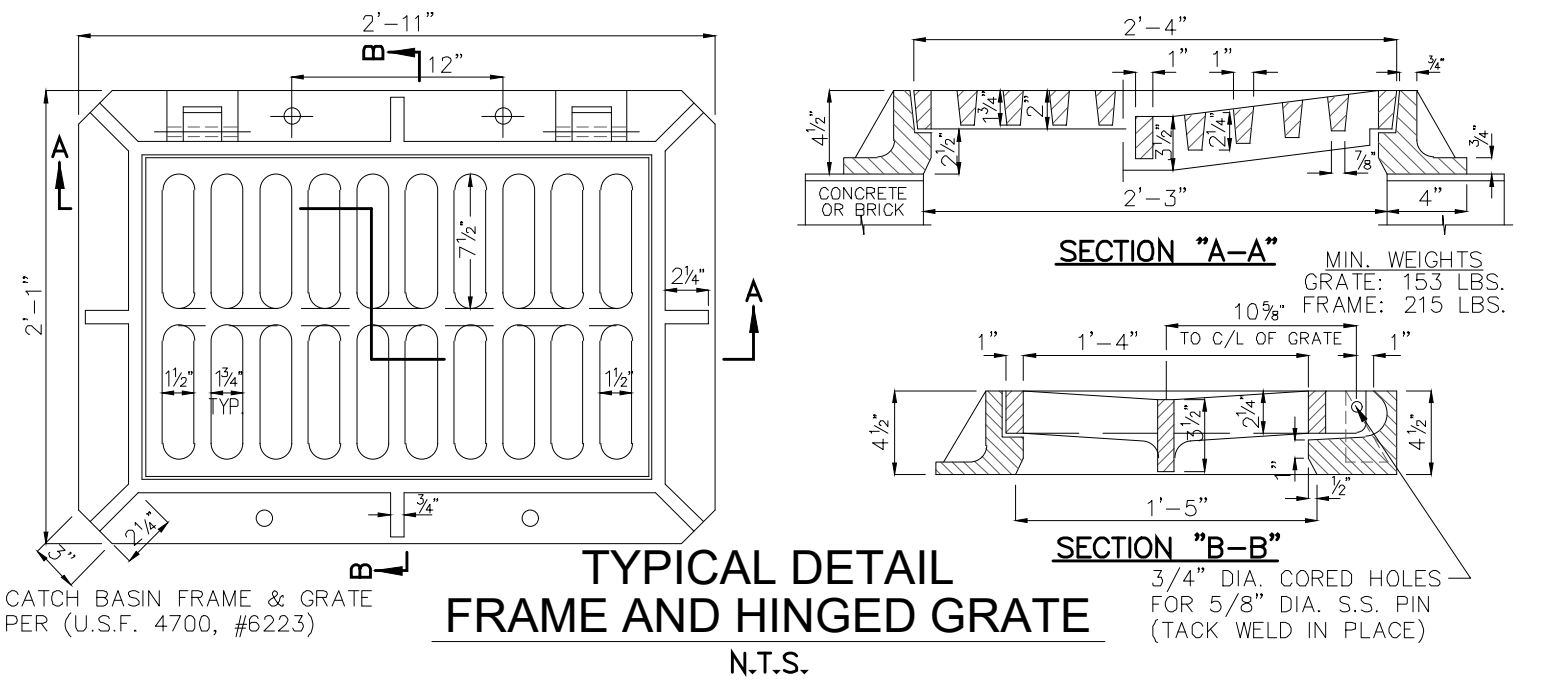
TYPICAL DETAIL DRAINAGE TANK AND WELL No. 2
N.T.S.



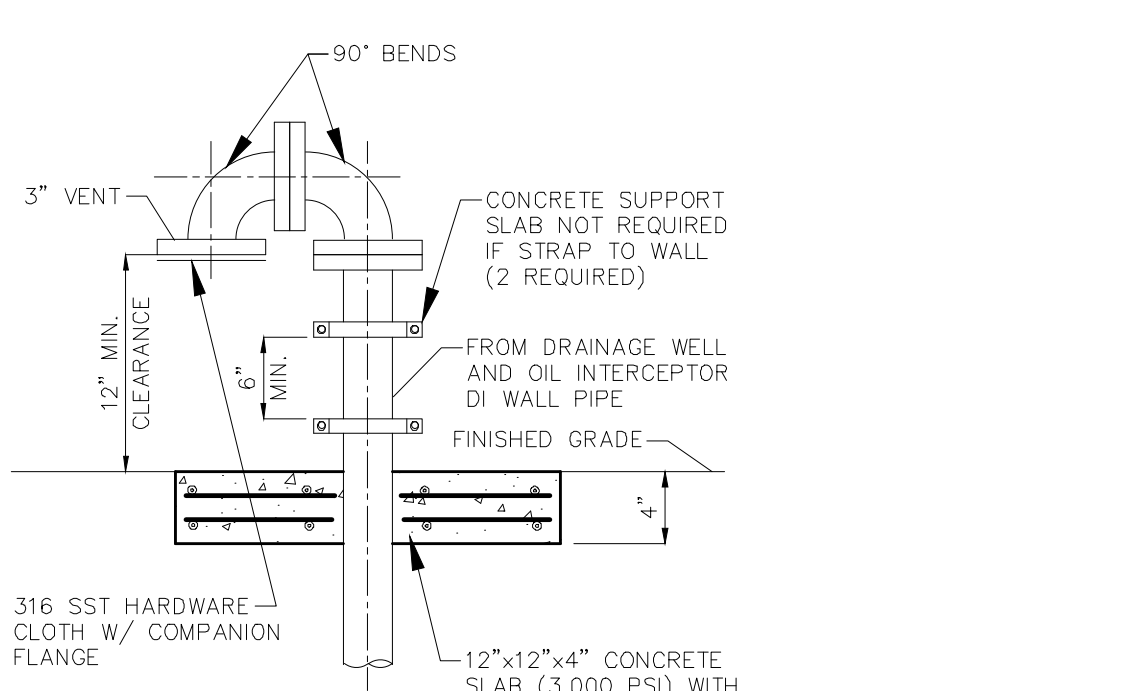
GENERAL NOTES:

1. THE CLEANOUT PORT FOR THE TYPE II SKIMMER SHALL BE GASKETED, WITH EITHER A THREADED SCREW-IN LID OR A LID SECURED BY FOUR STAINLESS STEEL QUICK-RELEASE LATCHES.
2. PLACE NEOPRENE GASKET MATERIAL BETWEEN THE SKIMMER AND THE CATCH BASIN AT ALL POINTS OF CONTACT. TRIM THE GASKET NEATLY TO EXTEND 1/2 INCH BEYOND THE JOINT ON ALL SIDES.
3. SKIMMER BAFFLE, CLEANOUT PIPE AND ANGLES SHALL BE PRIMARILY CONSTRUCTED OF EITHER GALVANIZED STEEL, ALUMINUM, POLYVINYL CHLORIDE, POLYETHYLENE, FIBERGLASS OR ACRYLONITRILE BUTADIENE STYRENE. ALL STEEL COMPONENTS, OTHER THAN STAINLESS, SHALL BE HOT-DIP GALVANIZED.
4. MOUNTING HARDWARE, HINGES AND LATCHES SHALL ALL BE STAINLESS STEEL LOSS PREVENTION DEVICE SHALL BE EITHER STAINLESS STEEL CHAIN OR RIVETED NYLON STRAP.
5. MATERIAL USED IN CONSTRUCTION OF SKIMMER BODIES (BAFFLES) AND CLEANOUT PIPE SHALL COMPLY WITH FDOT STANDARD SPECIFICATION 943 FOR STEEL, 945 FOR ALUMINUM OR 948 FOR PLASTICS.
6. PLASTIC SKIMMERS SHALL CONTAIN A MINIMUM OF 1.5% BY WEIGHT OF CARBON BLACK FOR UV PROTECTION.
7. THE CONTRACTOR MAY SUBMIT AN ALTERNATIVE DESIGN PREFABRICATED FRENCH DRAIN SKIMMER FOR APPROVAL BY THE ENGINEER OF RECORD.

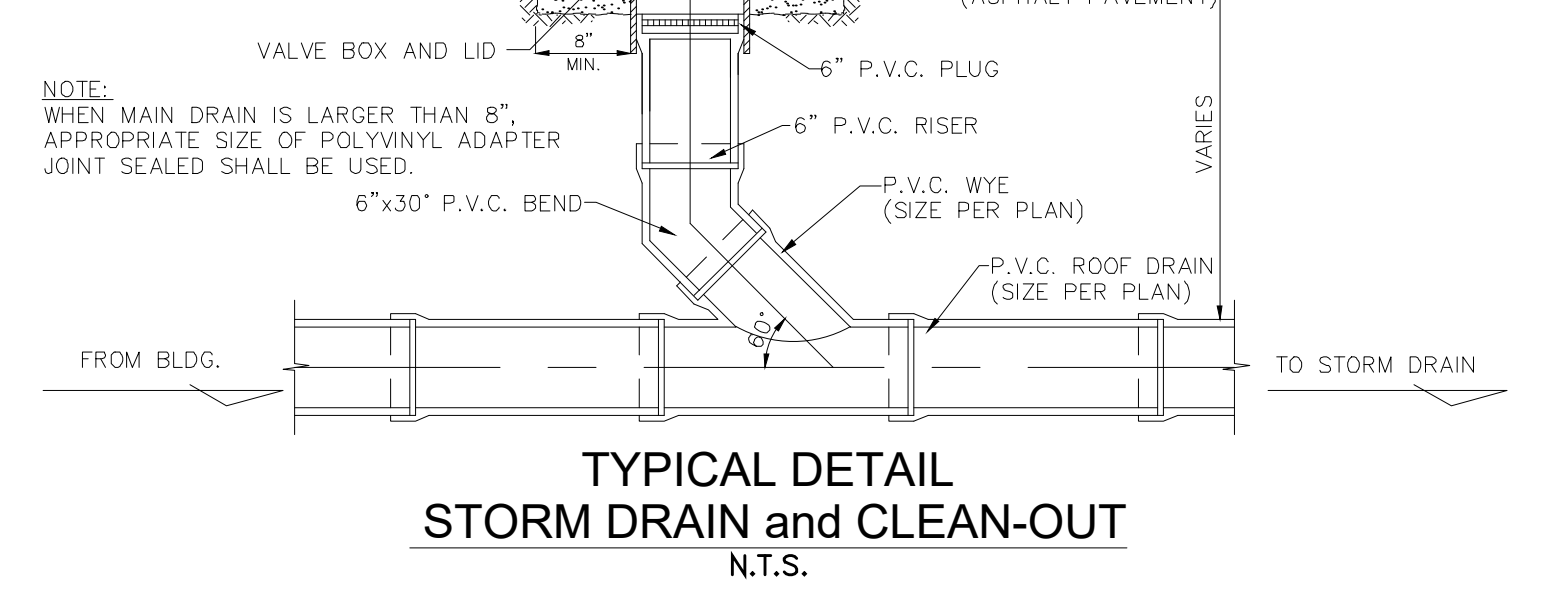
TYPICAL DETAIL TYPE II SKIMMER
N.T.S.



TYPICAL DETAIL CATCH BASIN FRAME AND HINGED GRATE
N.T.S.



TYPICAL DETAIL VENT PIPE
N.T.S.



TYPICAL DETAIL STORM DRAIN AND CLEAN-OUT
N.T.S.

No.	Date	Revision Description

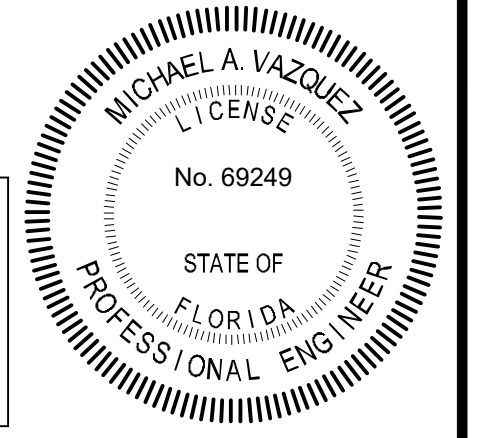
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CONSULTING ENGINEERS, SURVEYORS & MAPPERS
FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 00003653
180 Northeast 168th Street / North Miami Beach, Florida, 33162
Phone: 305-653-4493 / Fax 305-651-7152 / Email fls@flsurvey.com

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10245 Collins Avenue
Bal Harbour Village, Florida

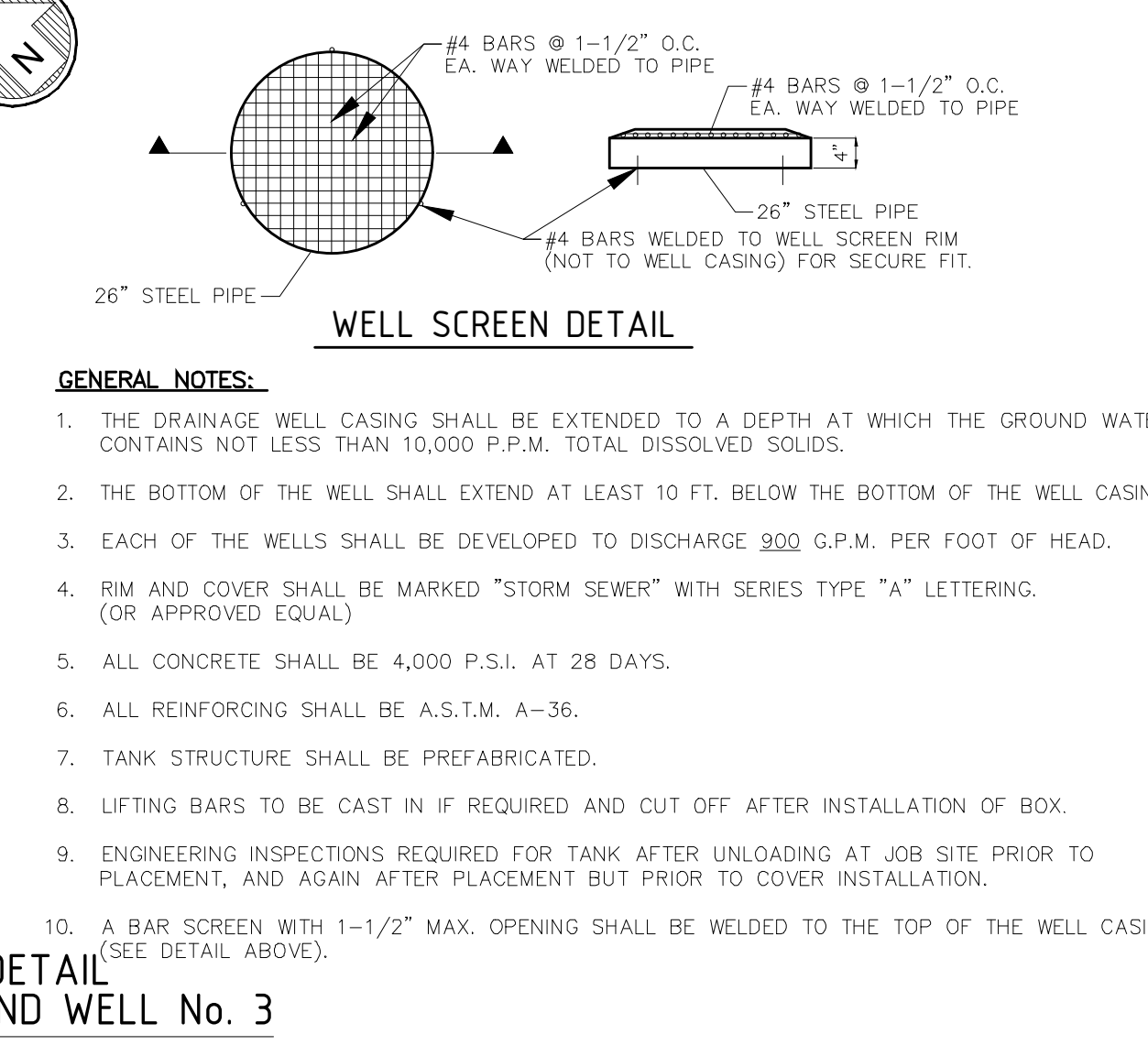
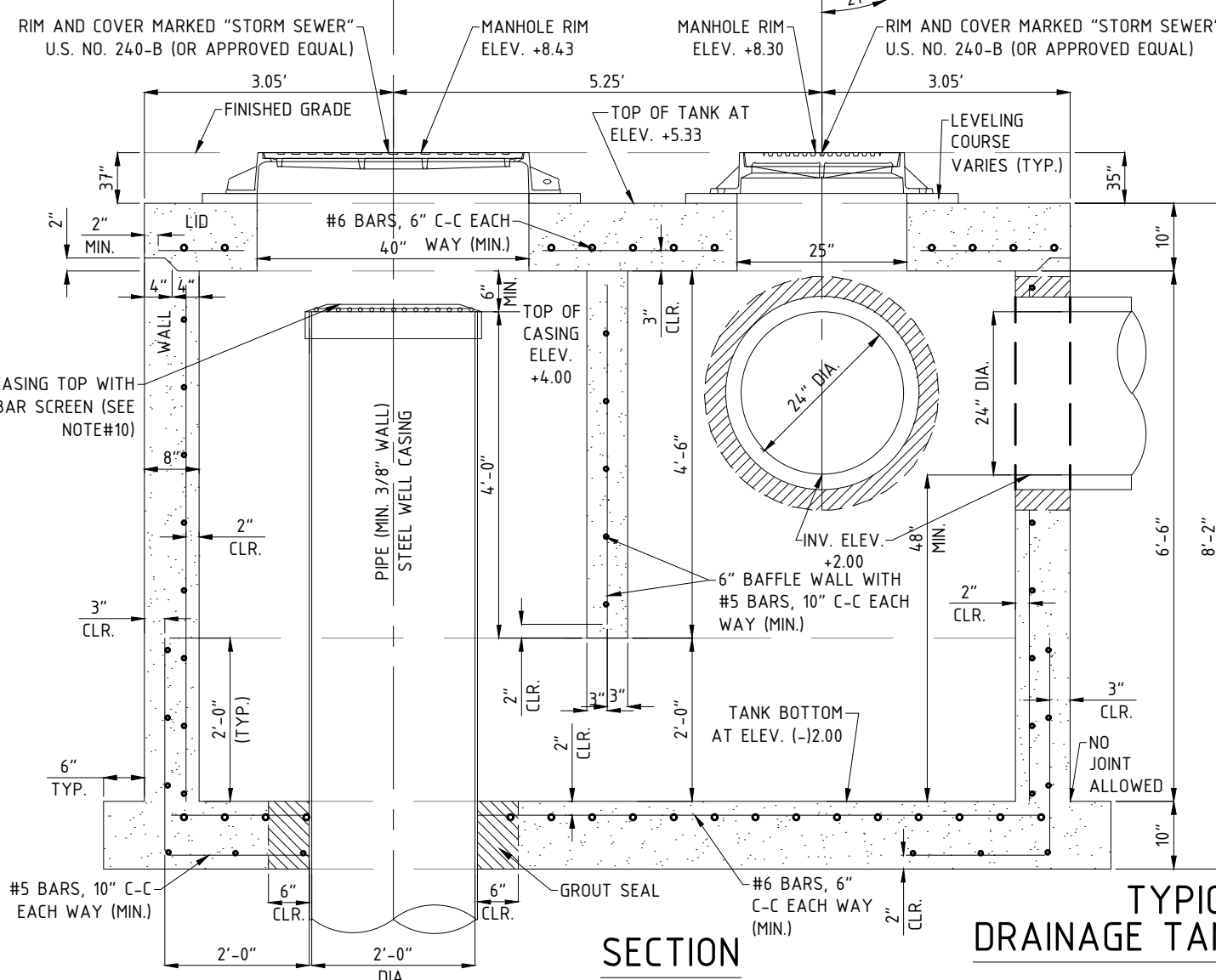
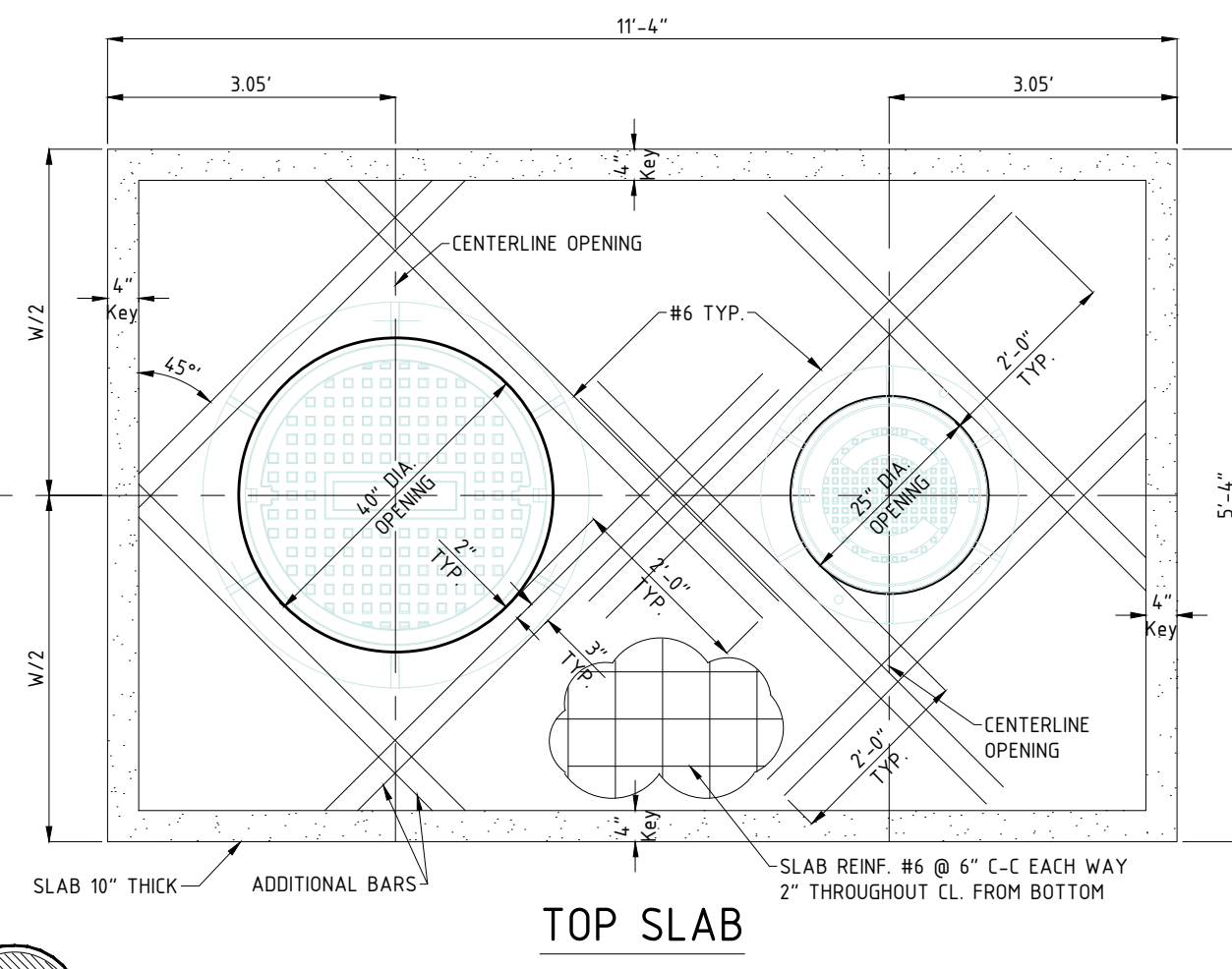
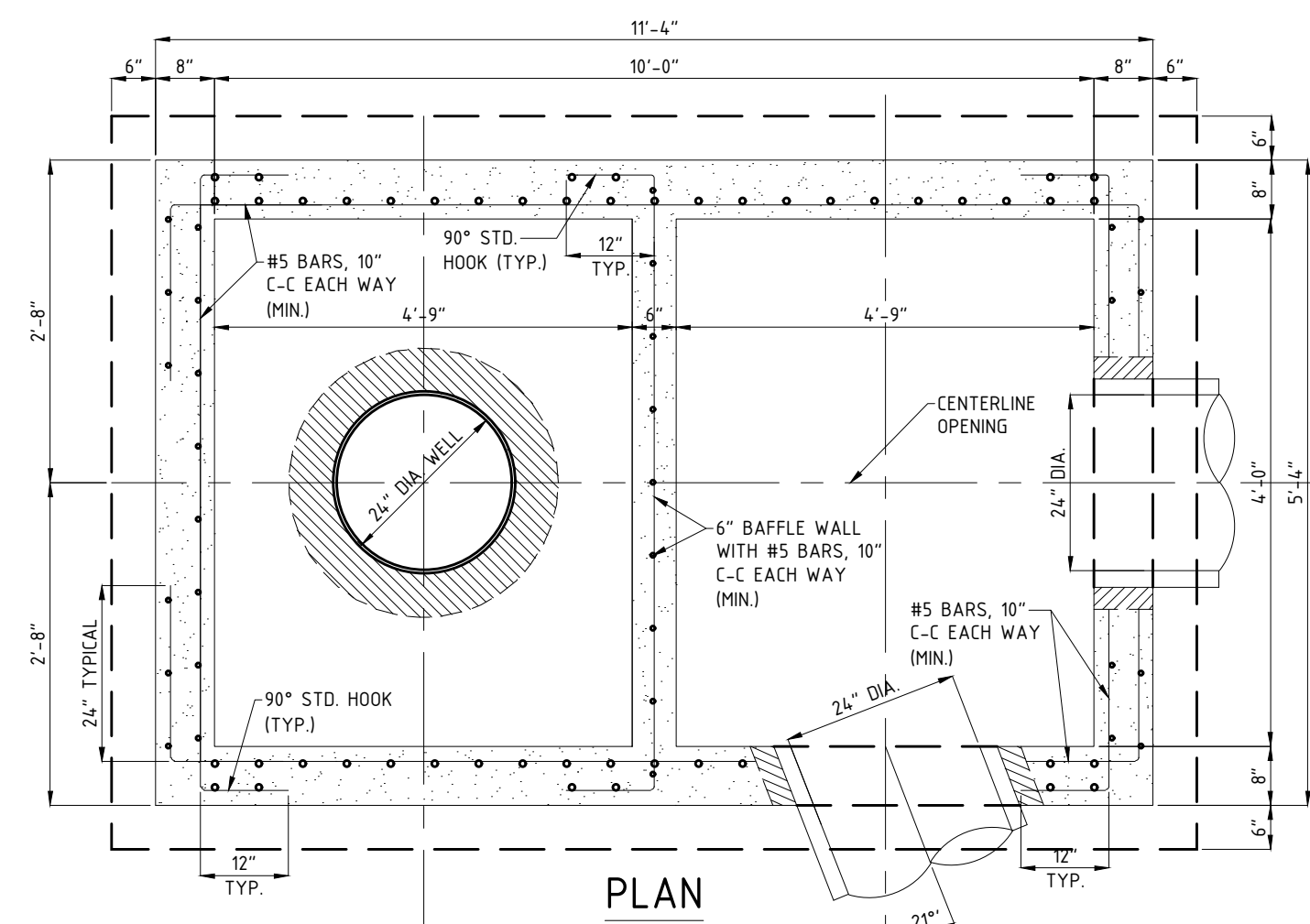
THE RESIDENCES OF BAL HARBOUR
CIVIL SITE PLAN - Paving and Drainage Details

Date: **03/23/2022**
Dwg. No.: **3022-006**
Sheet: **C13**

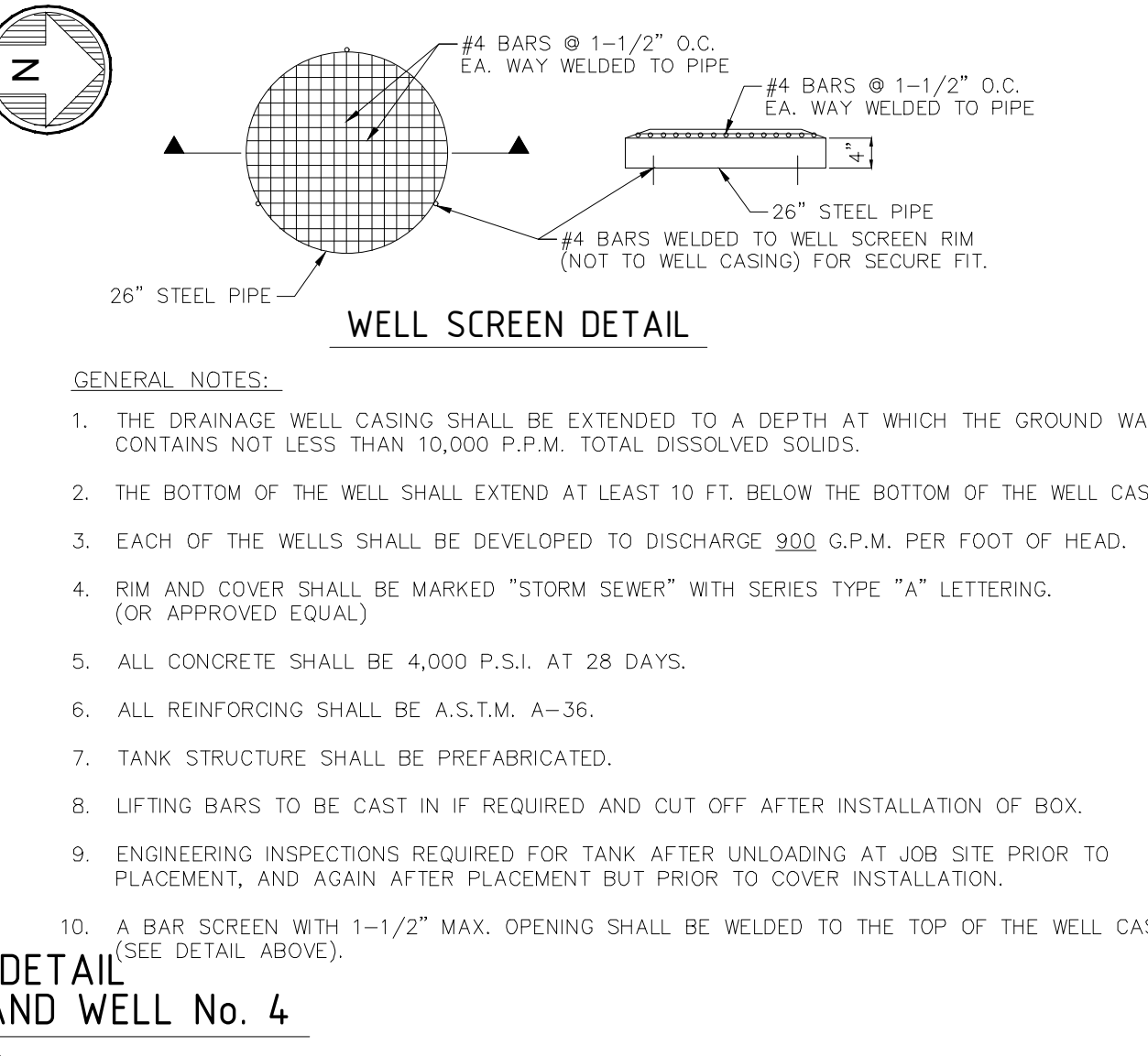
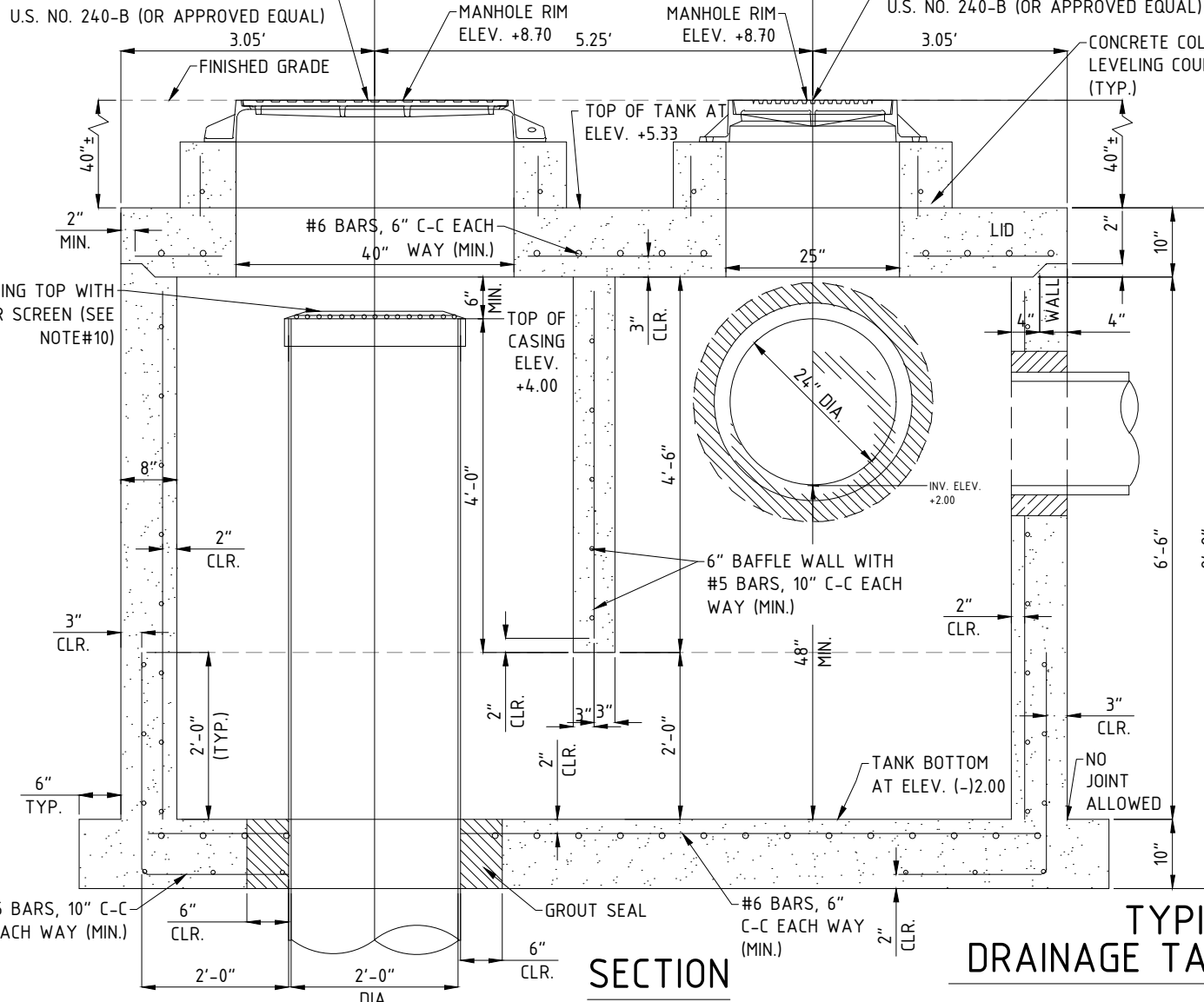
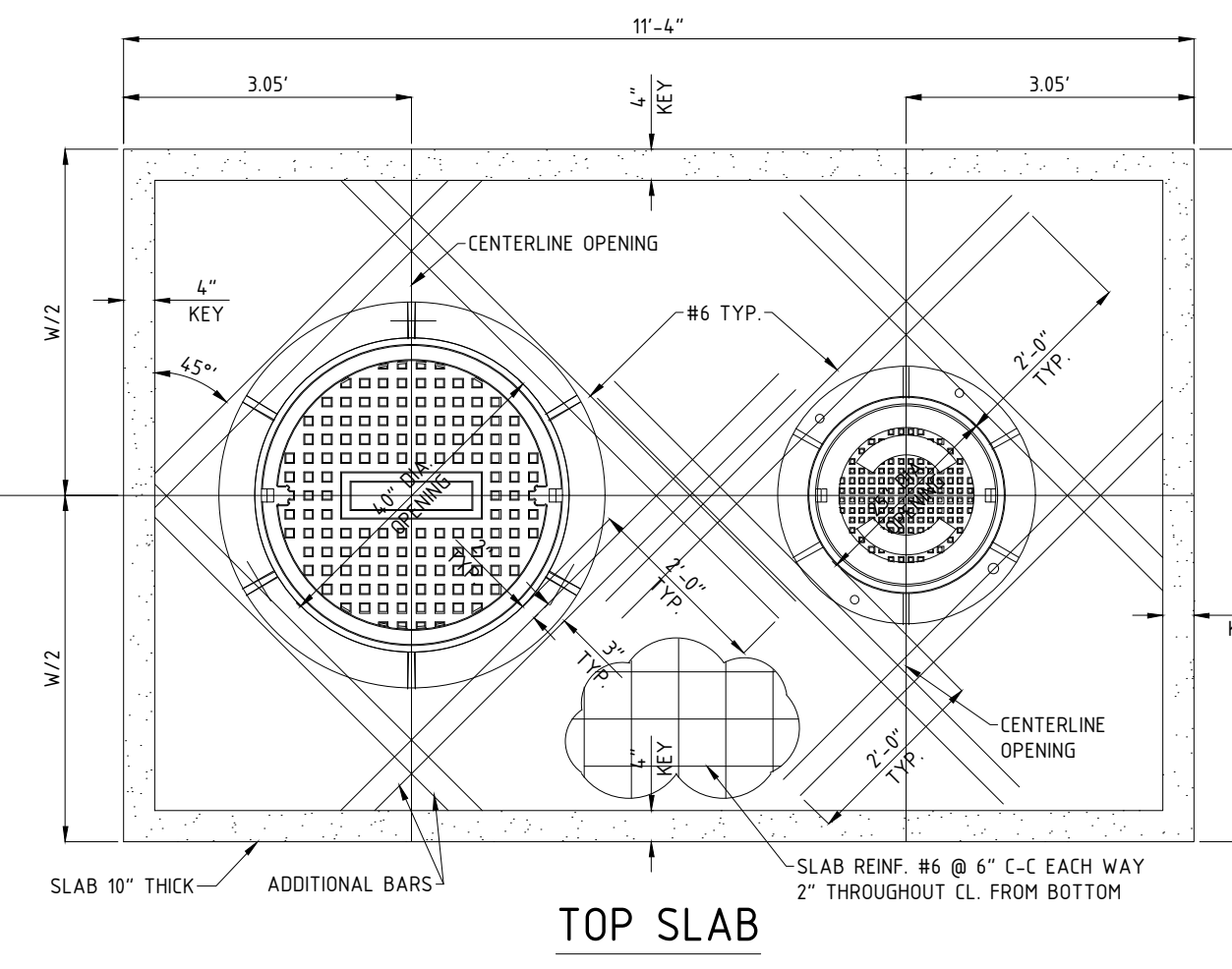
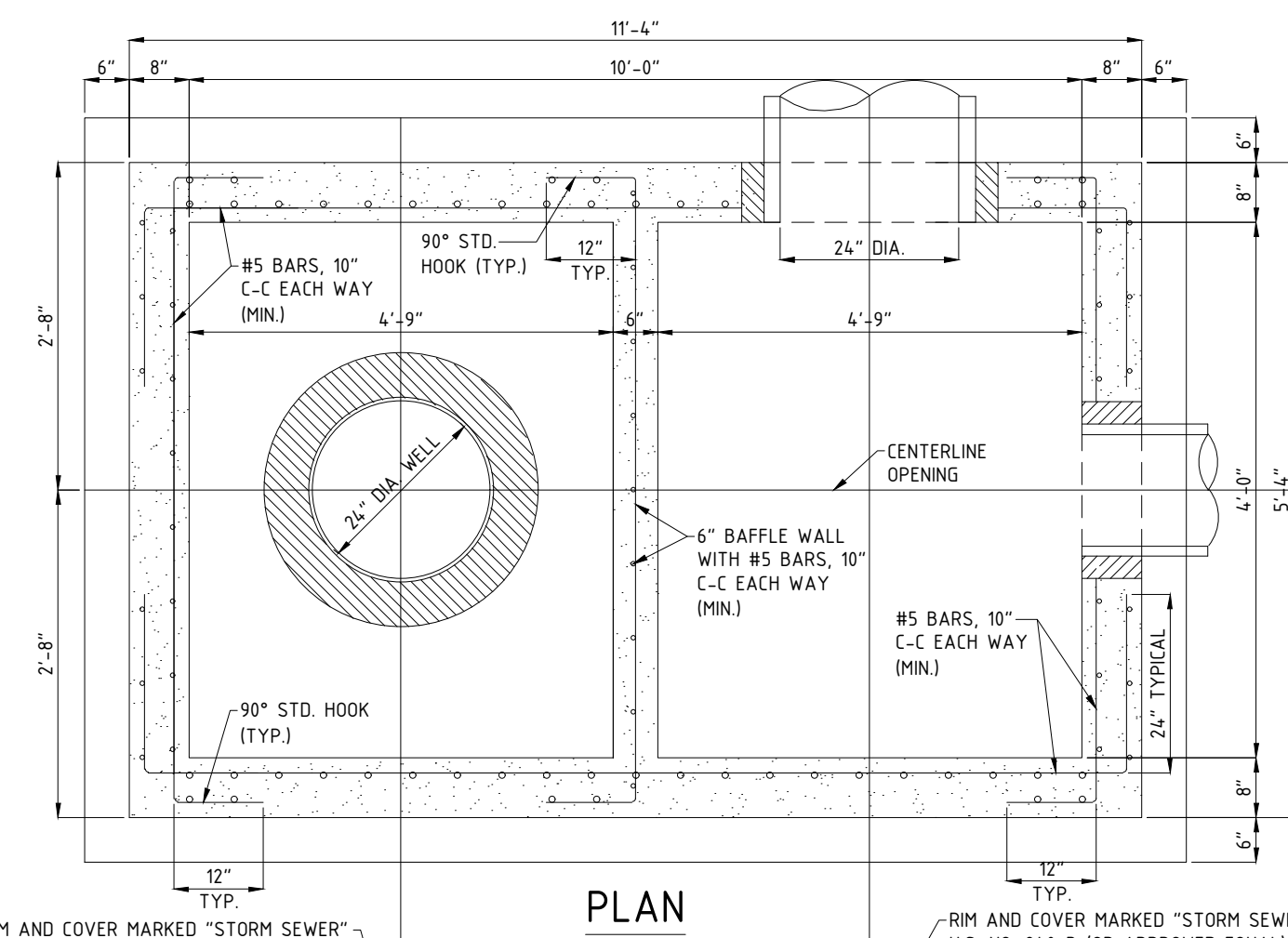


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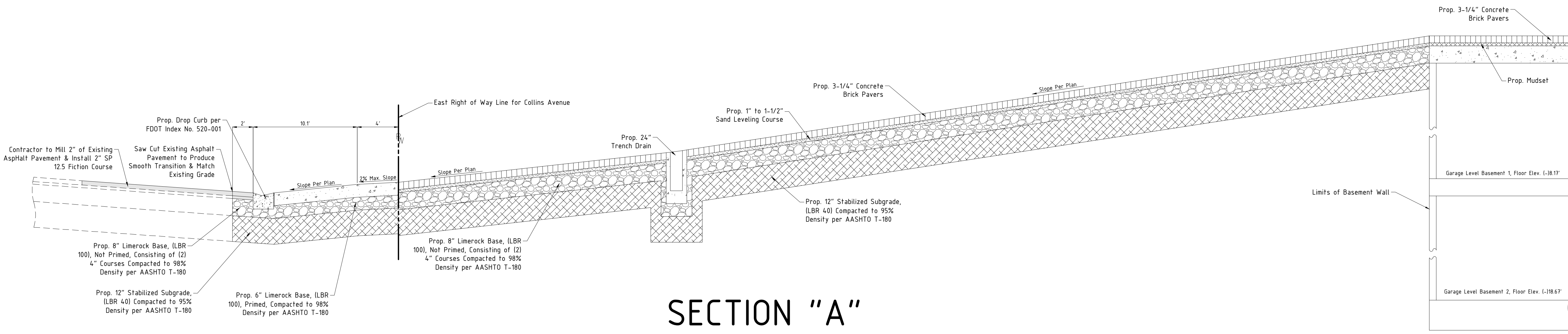
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- GENERAL NOTES:**
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 2. THE BOTTOM OF THE WELL SHALL EXTEND AT LEAST 10 FT. BELOW THE BOTTOM OF THE WELL CASING.
 3. EACH OF THE WELLS SHALL BE DEVELOPED TO DISCHARGE 900 G.P.M. PER FOOT OF HEAD.
 4. RIM AND COVER SHALL BE MARKED "STORM SEWER" WITH SERIES TYPE "A" LETTERING. (OR APPROVED EQUAL).
 5. ALL CONCRETE SHALL BE 4,000 P.S.I. AT 28 DAYS.
 6. ALL REINFORCING SHALL BE A.S.T.M. A-36.
 7. TANK STRUCTURE SHALL BE PREFABRICATED.
 8. LIFTING BARS TO BE CAST IN IF REQUIRED AND CUT OFF AFTER INSTALLATION OF BOX.
 9. ENGINEERING INSPECTIONS REQUIRED FOR TANK AFTER UNLOADING AT JOB SITE PRIOR TO PLACEMENT, AND AGAIN AFTER PLACEMENT BUT PRIOR TO COVER INSTALLATION.
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SECTION "A"

Scale: 1" = 5' Horizontal & 1" = 2' Vertical

No.	Date	Revision Description

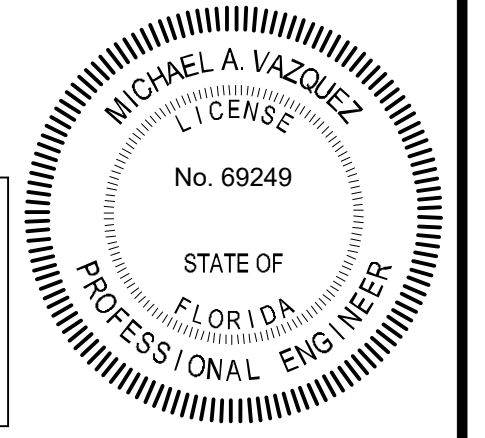
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 CONSULTING ENGINEERS, SURVEYORS & MAPPERS
 FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 00003653
 180 Northeast 168th Street / North Miami Beach, Florida, 33162
 Phone: 305-653-4493 / Fax 305-651-7152 / Email fls@flsurvey.com

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 Ref. Dwg.: **2019-0104-NGVD**
 Date Plotted: **6/21/2022 11:01 AM**

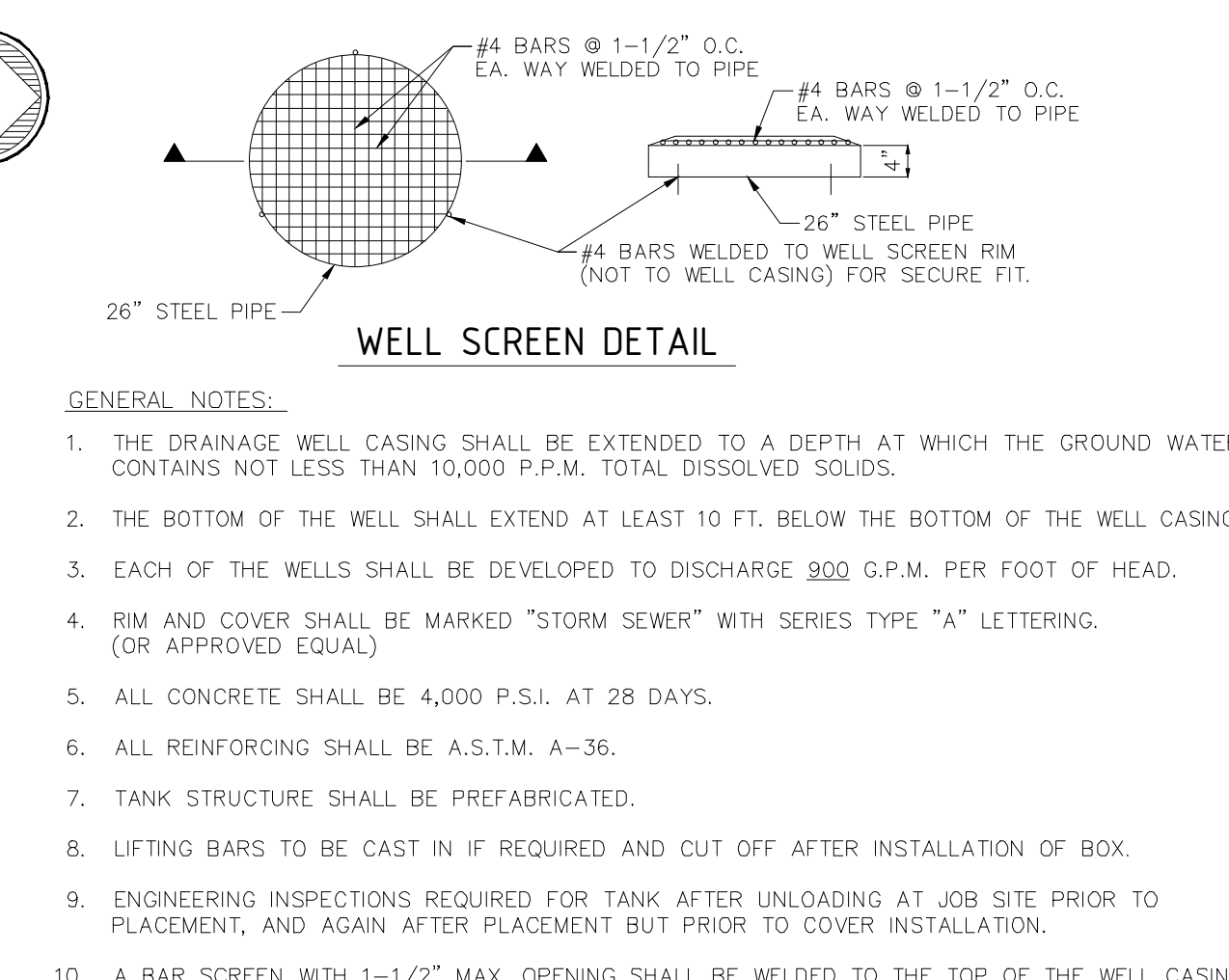
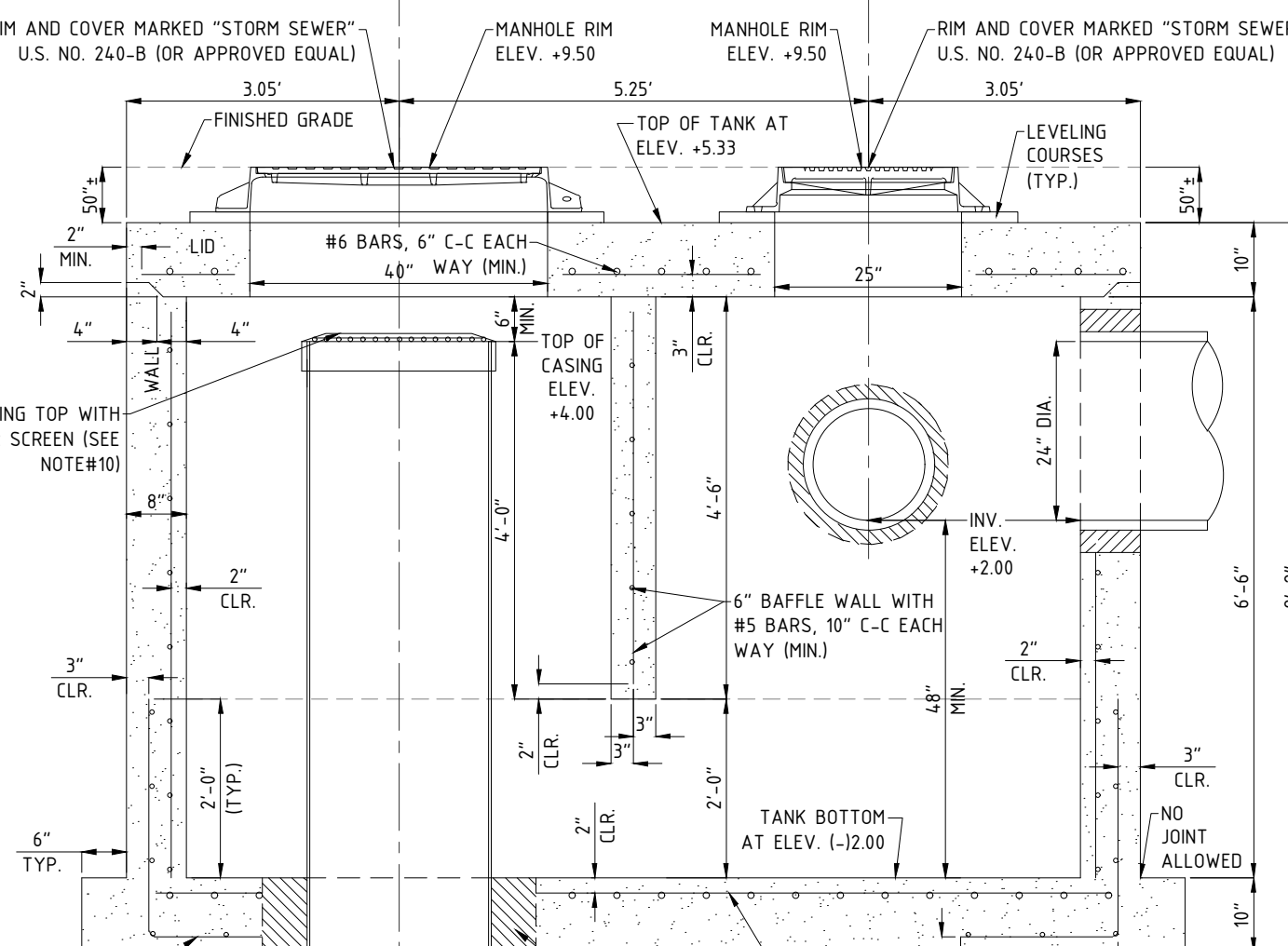
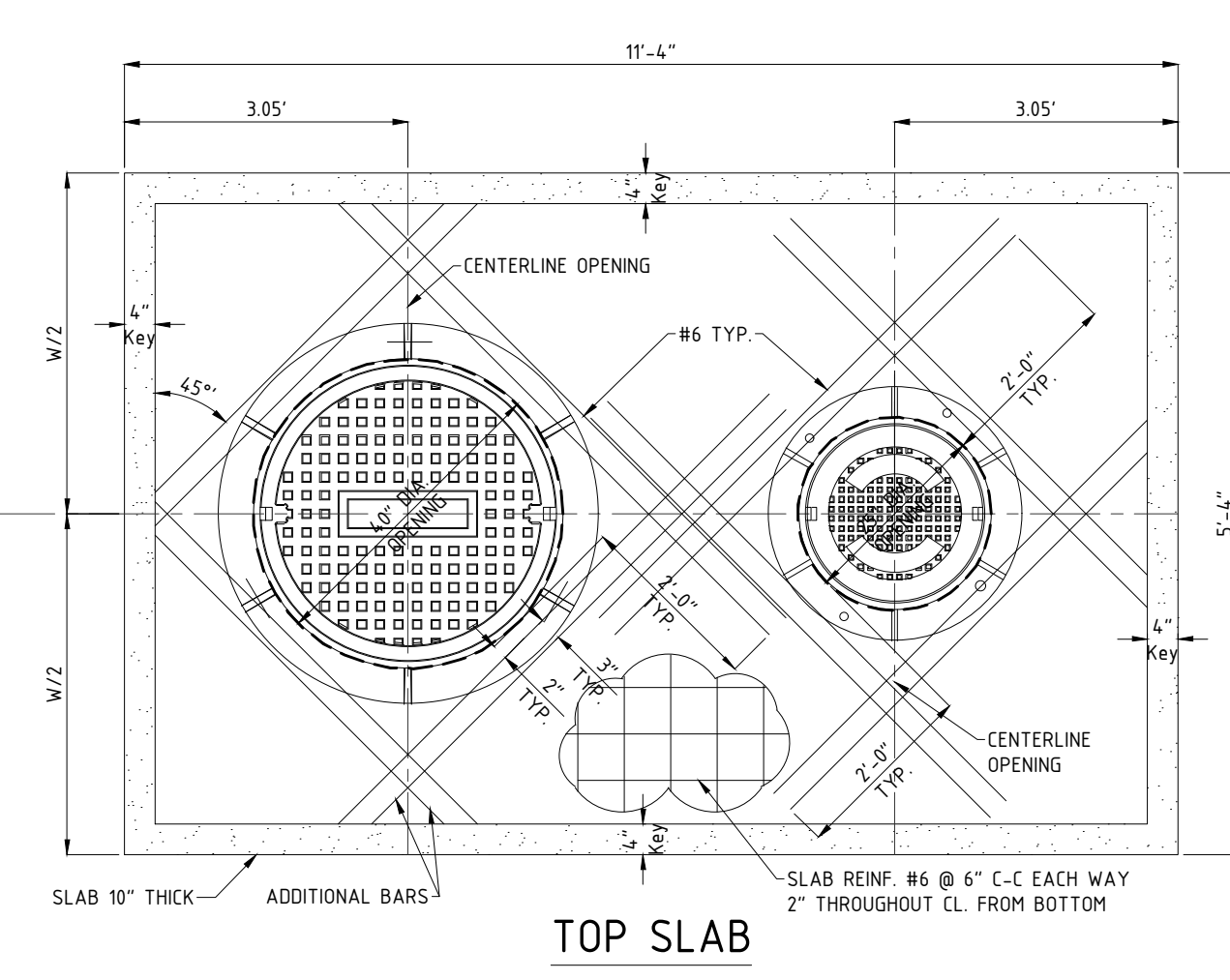
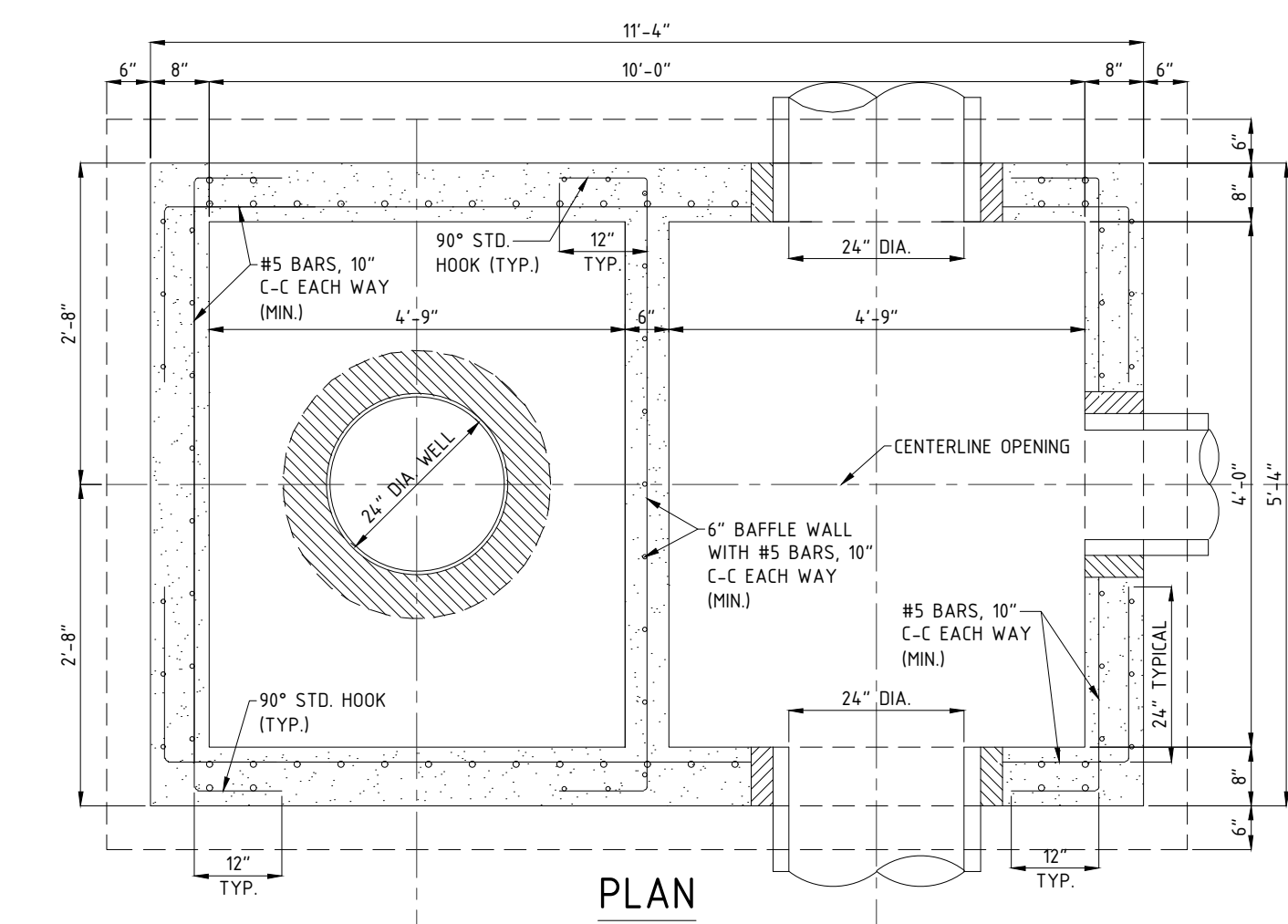
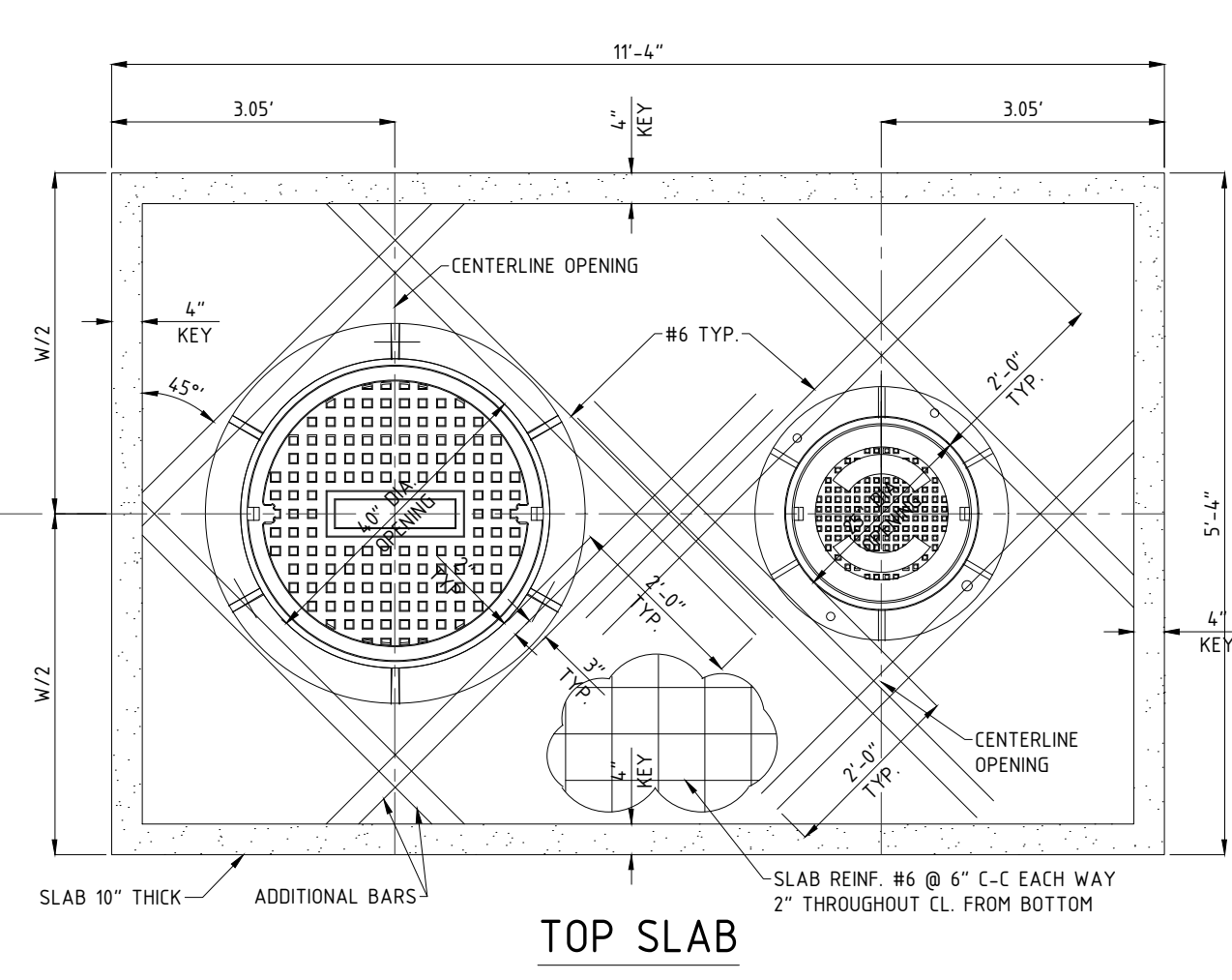
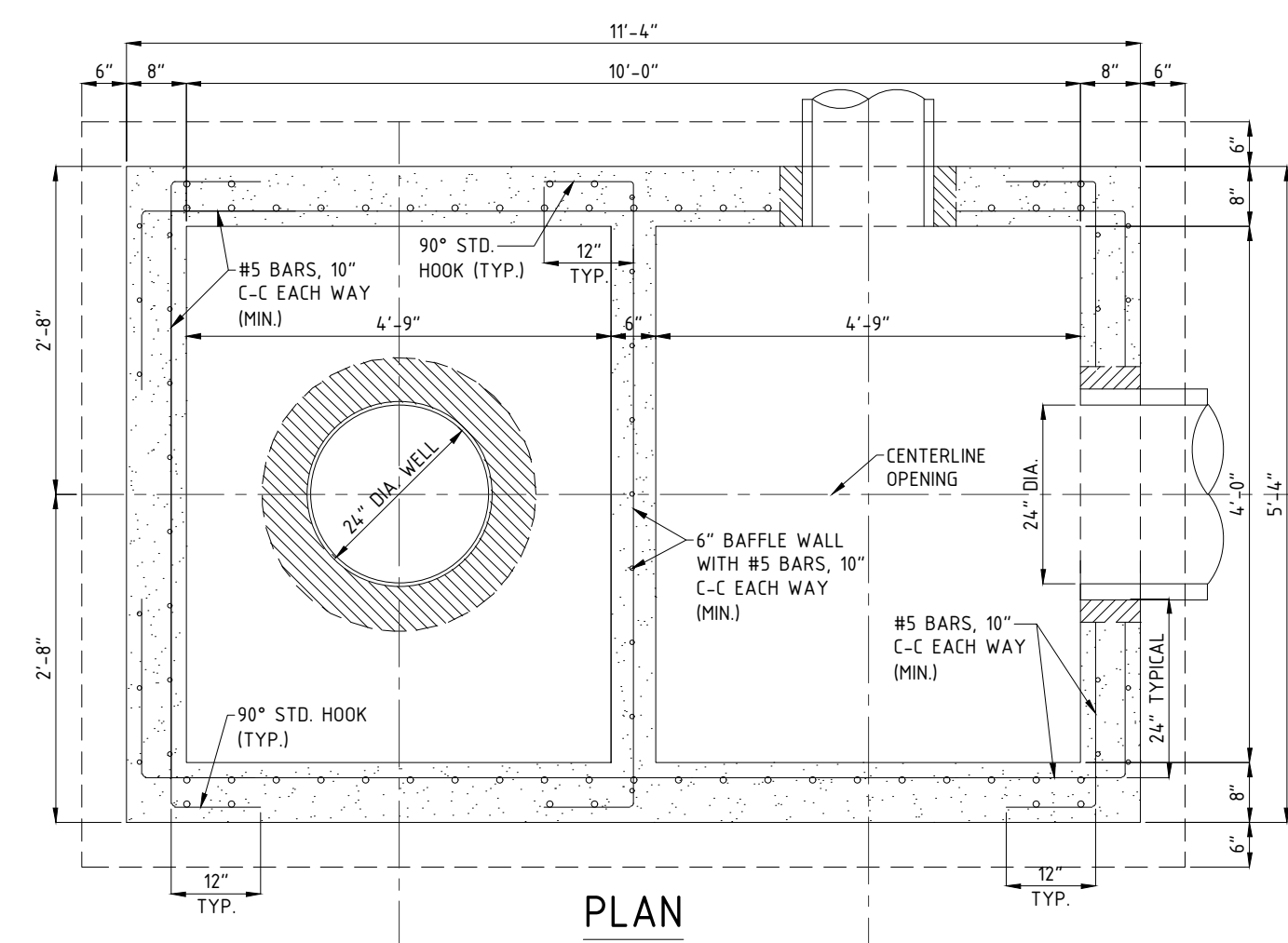
10245 Collins Avenue
Bal Harbour Village, Florida

THE RESIDENCES OF BAL HARBOUR
CIVIL SITE PLAN - Paving and Drainage Details

Date: **03/23/2022**
 Dwg. No.: **3022-006**
 Sheet: **C14**

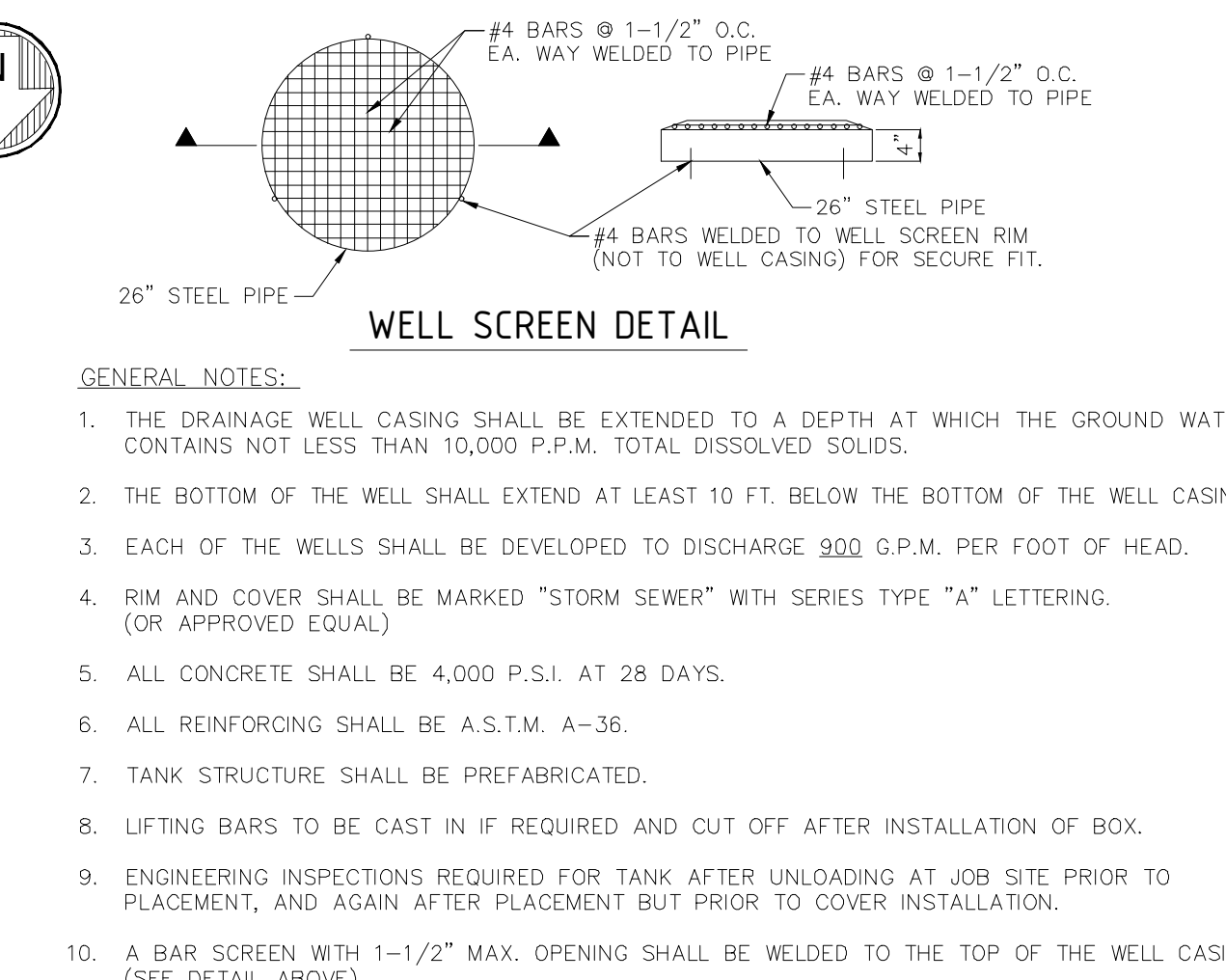
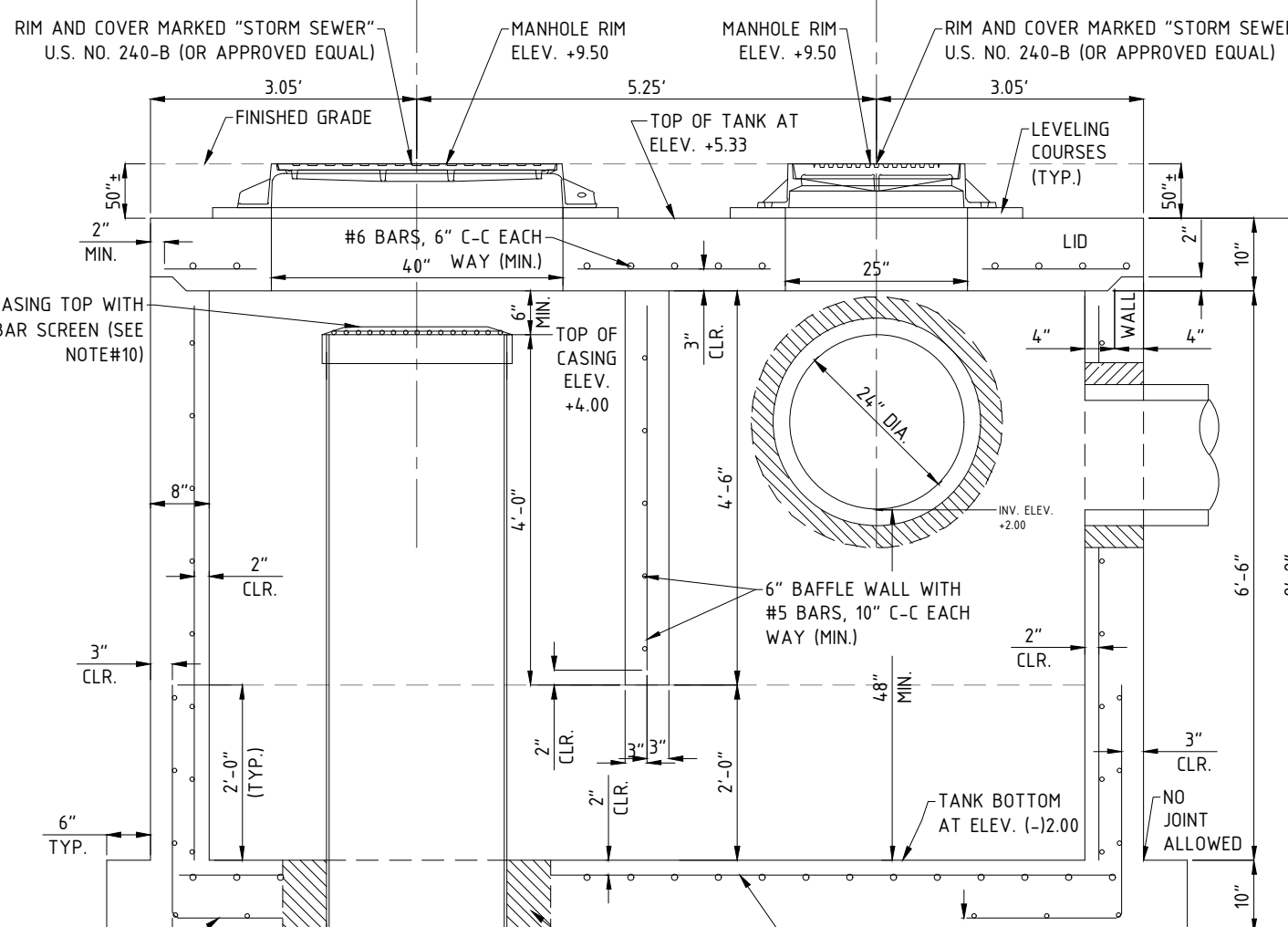


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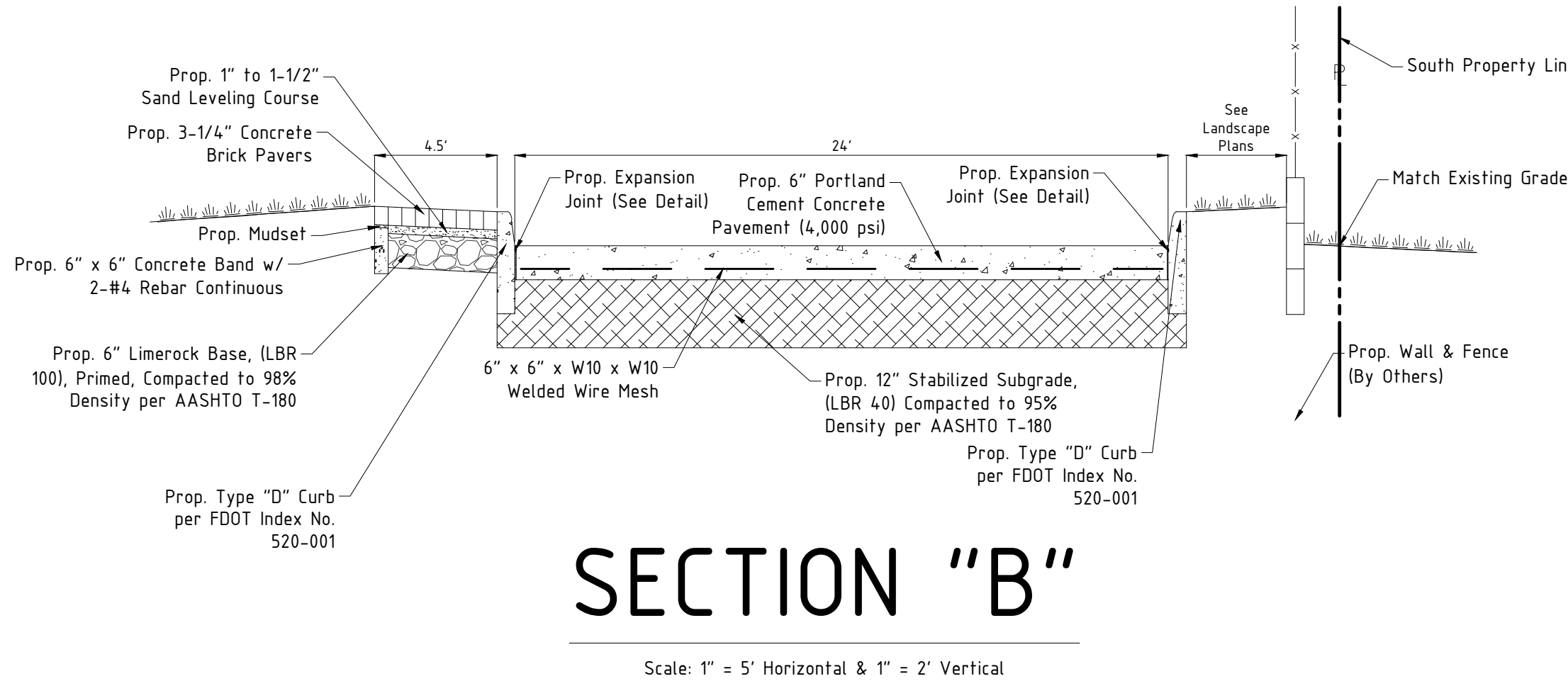
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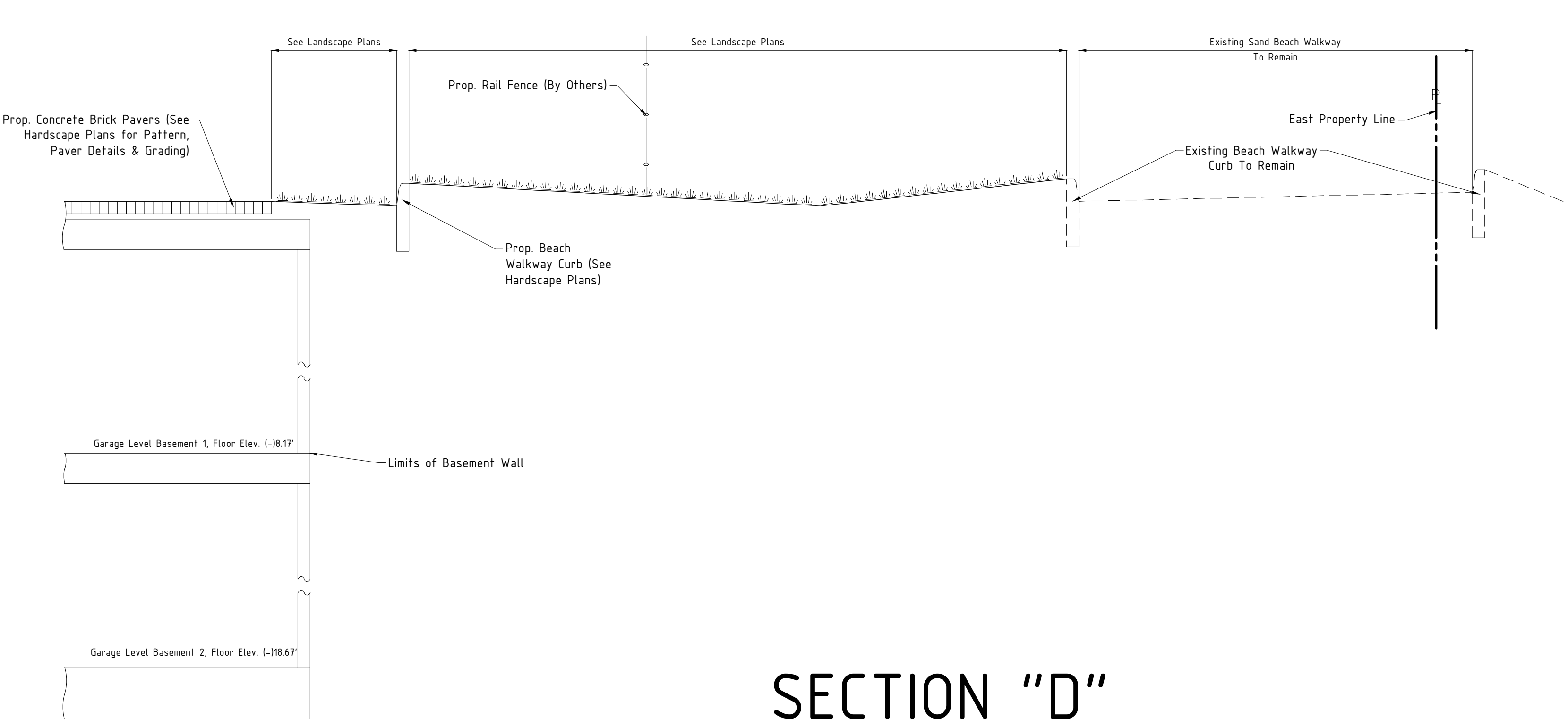
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SECTION "B"

Scale: 1" = 5' Horizontal & 1" = 2' Vertical



SECTION "D"

Scale: 1" = 5' Horizontal & 1" = 2' Vertical

No.	Date	Revision Description

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 180 Northeast 168th Street / North Miami Beach, Florida, 33162
 Phone: 305-653-4493 / Fax 305-651-7152 / Email fls@flsurvey.com

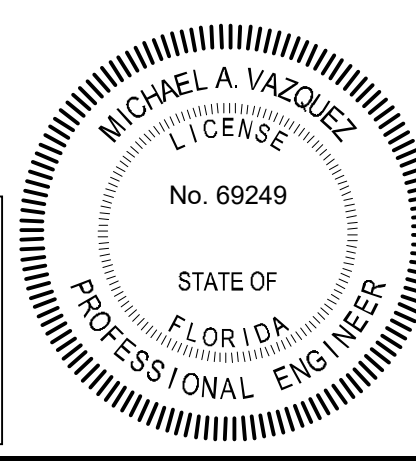
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 Ref. Dwg.: **2019-0104-NGVD**
 Date Plotted: **6/21/2022 11:01 AM**

Cad. No.: **220177CP**
 Scale: **As Shown**
 Job No.: **210930**

10245 Collins Avenue
Bal Harbour Village, Florida

THE RESIDENCES OF BAL HARBOUR
CIVIL SITE PLAN - Paving and Drainage Details

Date: **03/23/2022**
 Dwg. No.: **3022-006**
 Sheet: **C15**

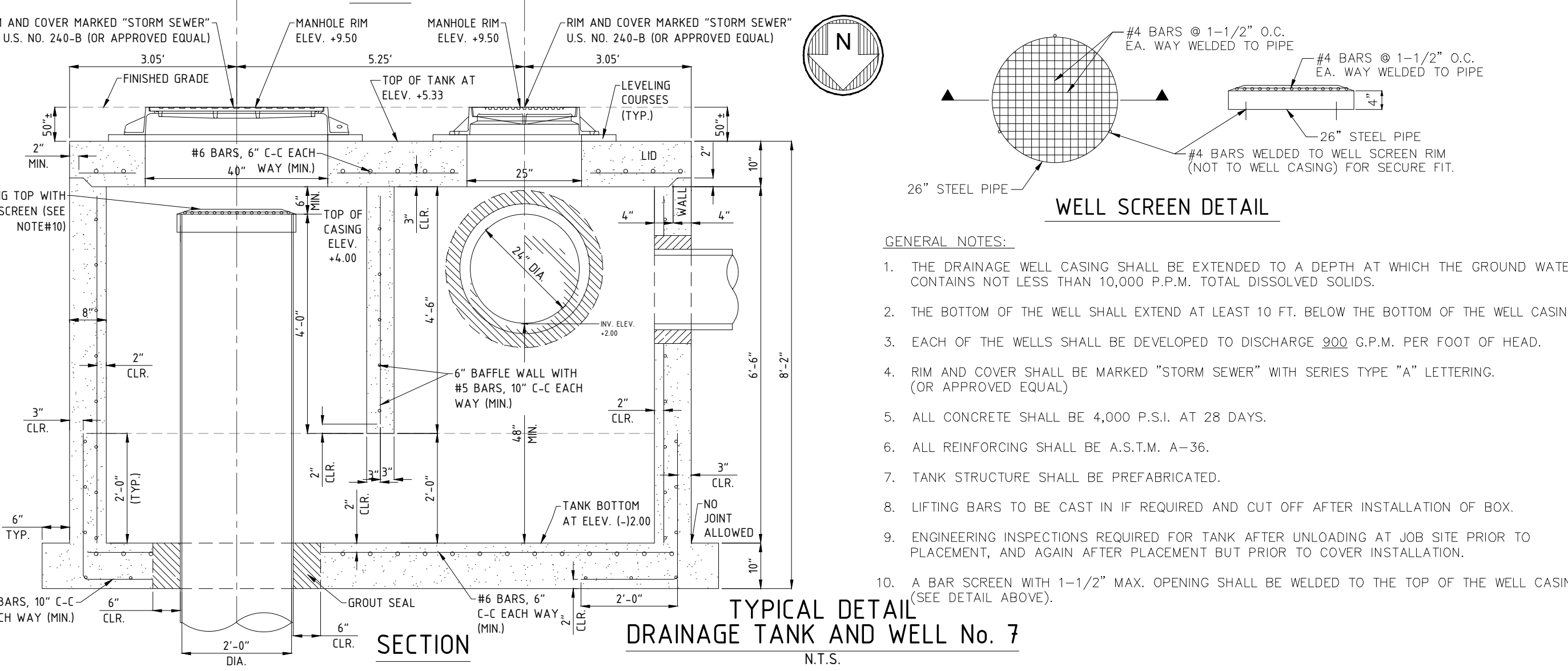
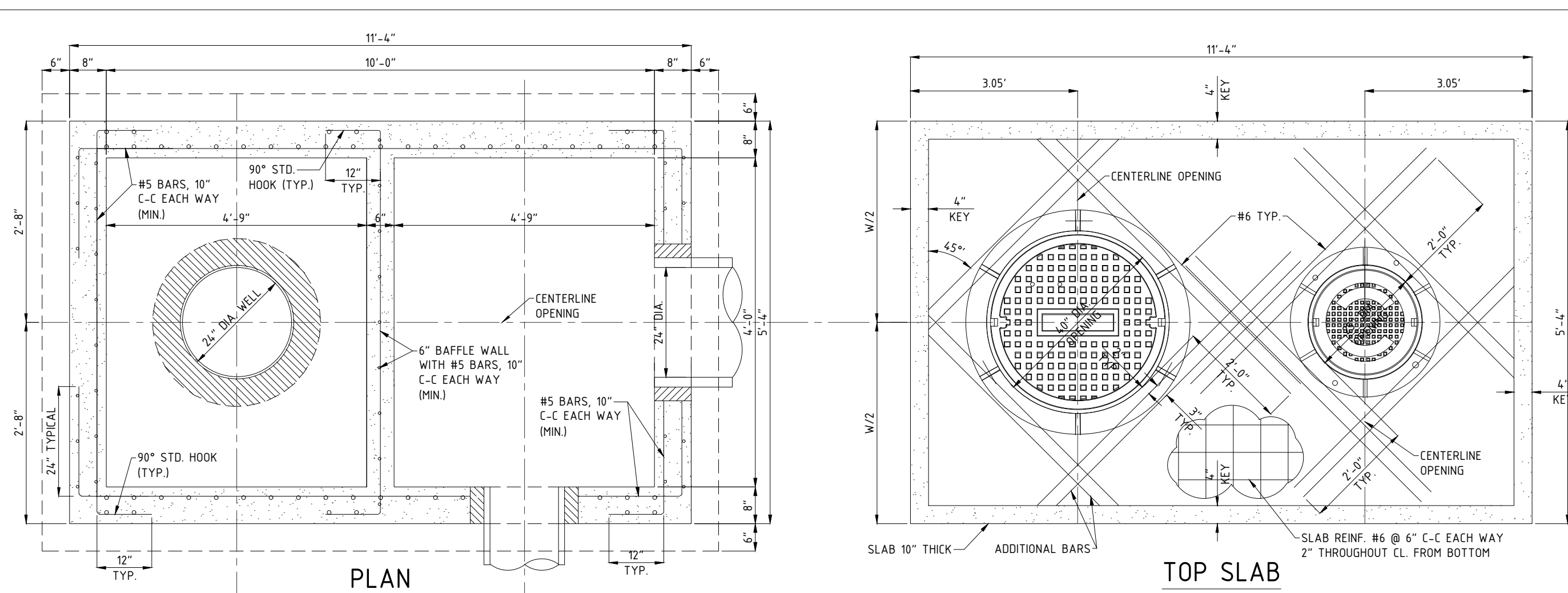


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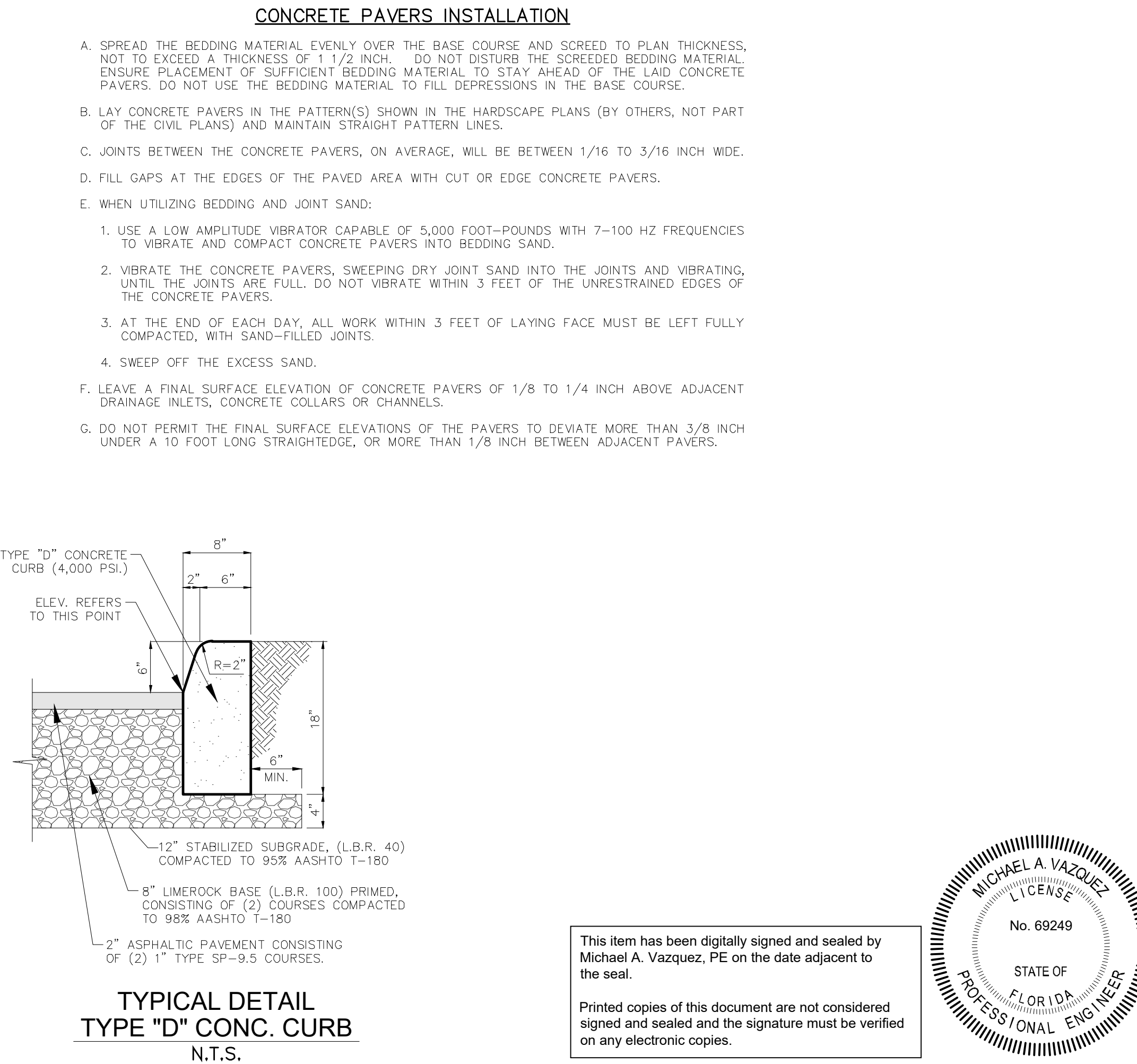
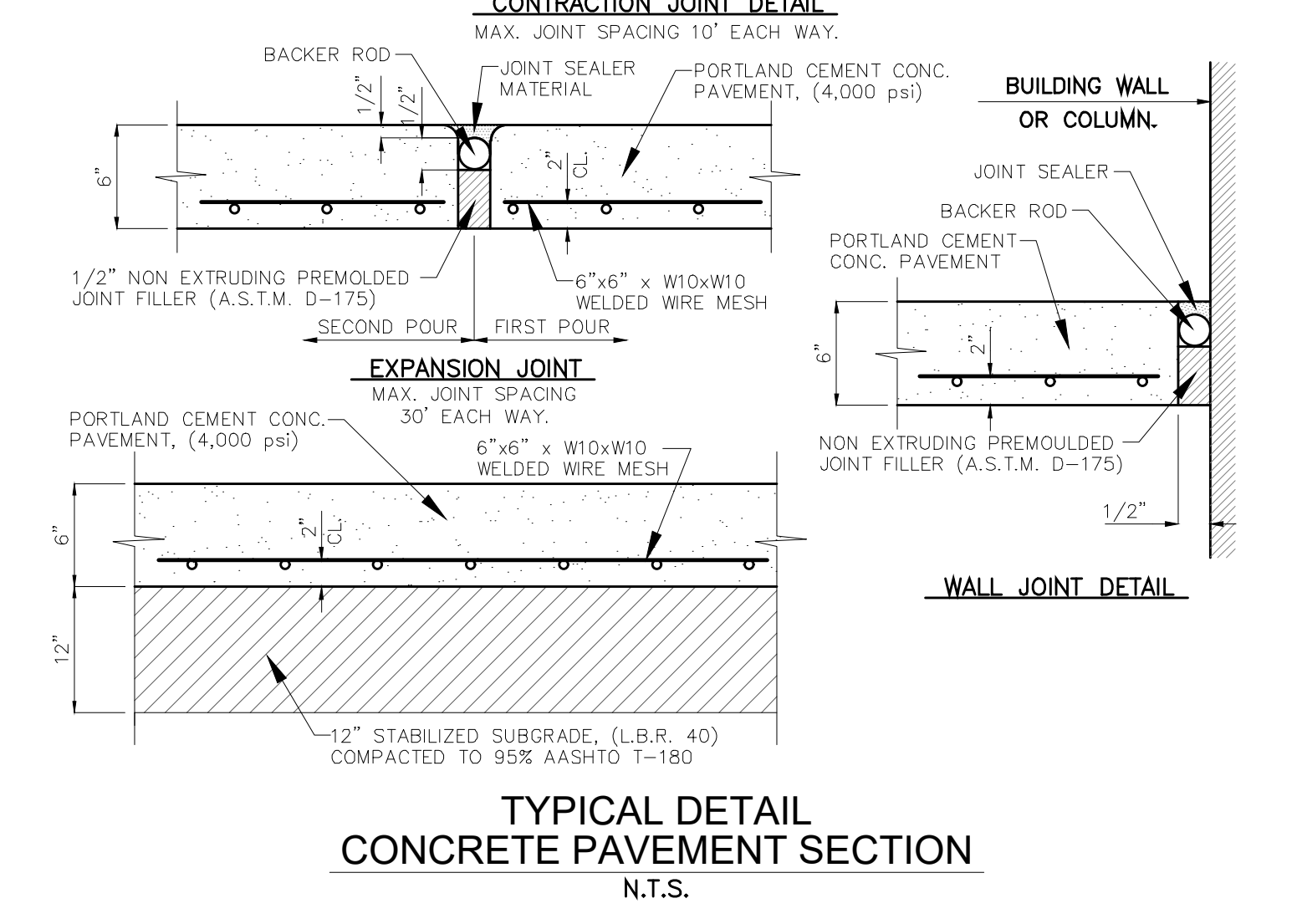
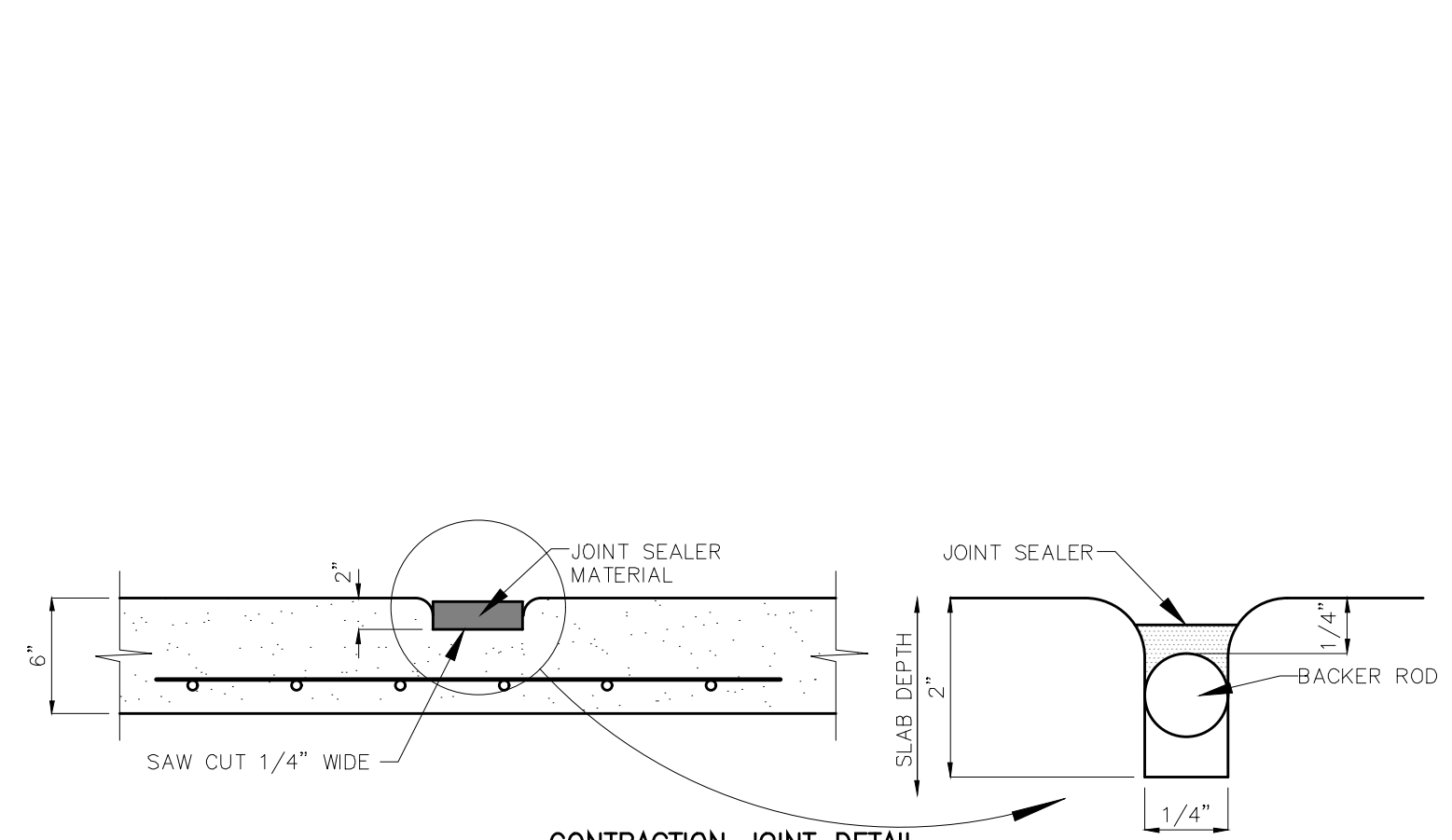


SECTION "C"

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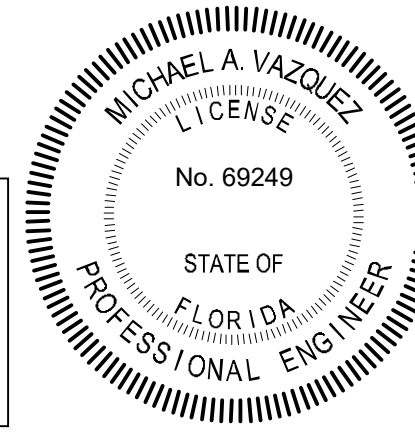


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- CONCRETE PAVERS INSTALLATION**
- A. SPREAD THE BEDDING MATERIAL EVENLY OVER THE BASE COURSE AND SCREED TO PLAN THICKNESS. NOT TO EXCEED A THICKNESS OF 1 1/2 INCH. DO NOT DISTURB THE SCREEDED BEDDING MATERIAL. ENSURE PLACEMENT OF SUFFICIENT BEDDING MATERIAL TO STAY AHEAD OF THE LAID CONCRETE PAVERS. DO NOT USE THE BEDDING MATERIAL TO FILL DEPRESSIONS IN THE BASE COURSE.
 - B. LAY CONCRETE PAVERS IN THE PATTERN(S) SHOWN IN THE HARDSCAPE PLANS (BY OTHERS, NOT PART OF THE CIVIL PLANS) AND MAINTAIN STRAIGHT PATTERN LINES.
 - C. JOINTS BETWEEN THE CONCRETE PAVERS, ON AVERAGE, WILL BE BETWEEN 1/16 TO 3/16 INCH WIDE.
 - D. FILL GAPS AT THE EDGES OF THE PAVED AREA WITH CUT OR EDGE CONCRETE PAVERS.
 - E. WHEN UTILIZING BEDDING AND JOINT SAND:
 1. USE A LOW AMPITUDE VIBRATOR CAPABLE OF 5,000 FOOT-POUNDS WITH 7-100 HZ FREQUENCIES TO VIBRATE AND COMPACT CONCRETE PAVERS INTO BEDDING SAND.
 2. VIBRATE THE CONCRETE PAVERS, SWEEPING DRY JOINT SAND INTO THE JOINTS AND VIBRATING, UNTIL THE JOINTS ARE FULL. DO NOT VIBRATE WITHIN 3 FEET OF THE UNRESTRAINED EDGES OF THE CONCRETE PAVERS.
 3. AT THE END OF EACH DAY, ALL WORK WITHIN 3 FEET OF LAYING FACE MUST BE LEFT FULLY COMPACTED, WITH SAND-FILLED JOINTS.
 4. SWEEP OFF THE EXCESS SAND.
 - F. LEAVE A FINAL SURFACE ELEVATION OF CONCRETE PAVERS OF 1/8 TO 1/4 INCH ABOVE ADJACENT DRAINAGE INLETS, CONCRETE COLLARS OR CHANNELS.
 - G. DO NOT PERMIT THE FINAL SURFACE ELEVATIONS OF THE PAVERS TO DEVIATE MORE THAN 3/8 INCH UNDER A 10 FOOT LONG STRAIGHTEDGE, OR MORE THAN 1/8 INCH BETWEEN ADJACENT PAVERS.

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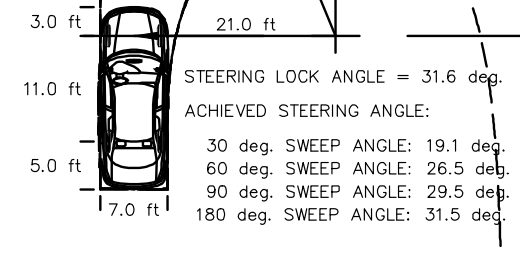
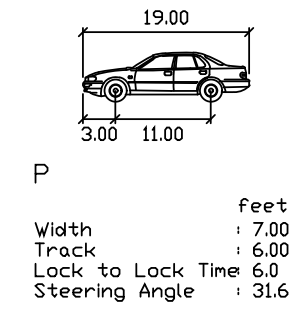
FORTIN, LEAVY, SKILES, INC.
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Ref. Dwg.: **2019-0104-NGVD**
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Job No.: **210930**

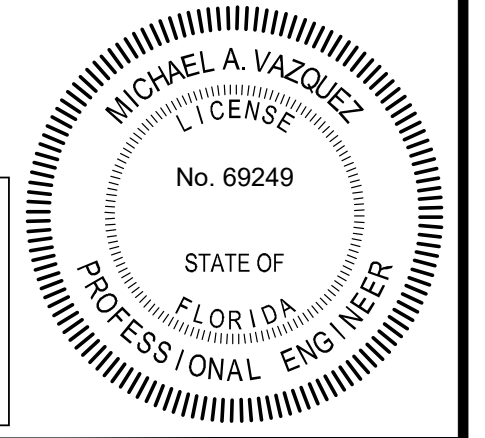
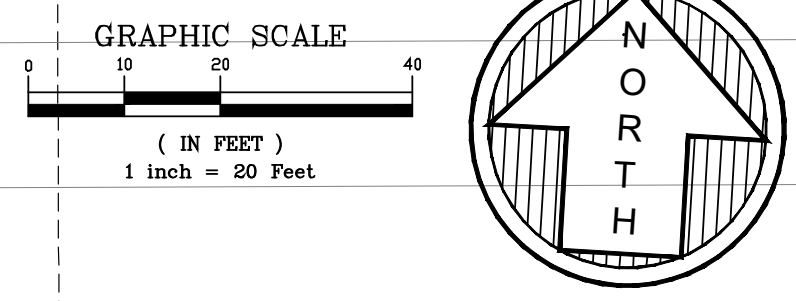
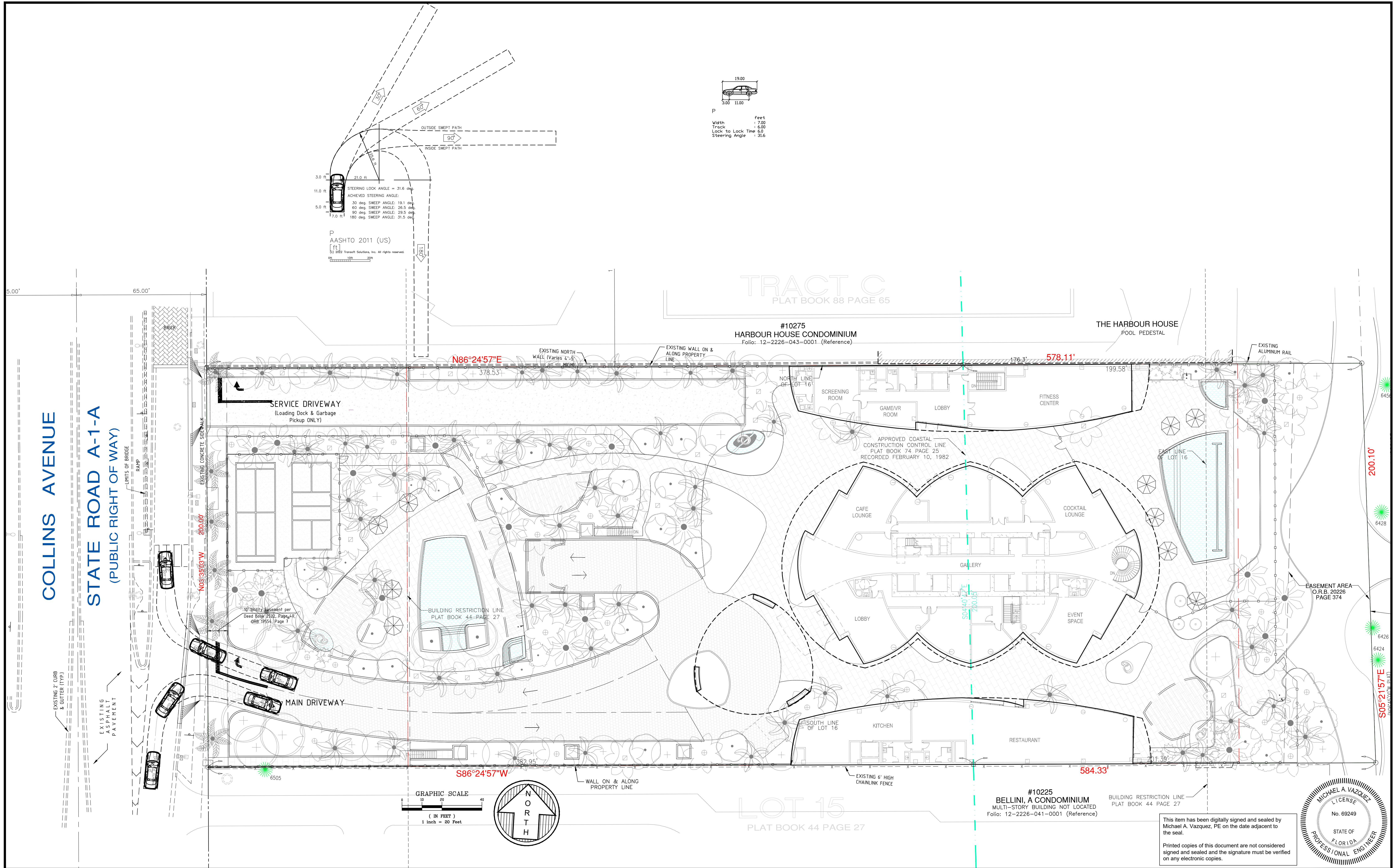
10245 Collins Avenue
Bal Harbour Village, Florida

THE RESIDENCES OF BAL HARBOUR
CIVIL SITE PLAN - Paving and Drainage Details

Date: **03/23/2022**
Dwg. No.: **3022-006**
Sheet: **C16**



AASHTO 2011 (US)
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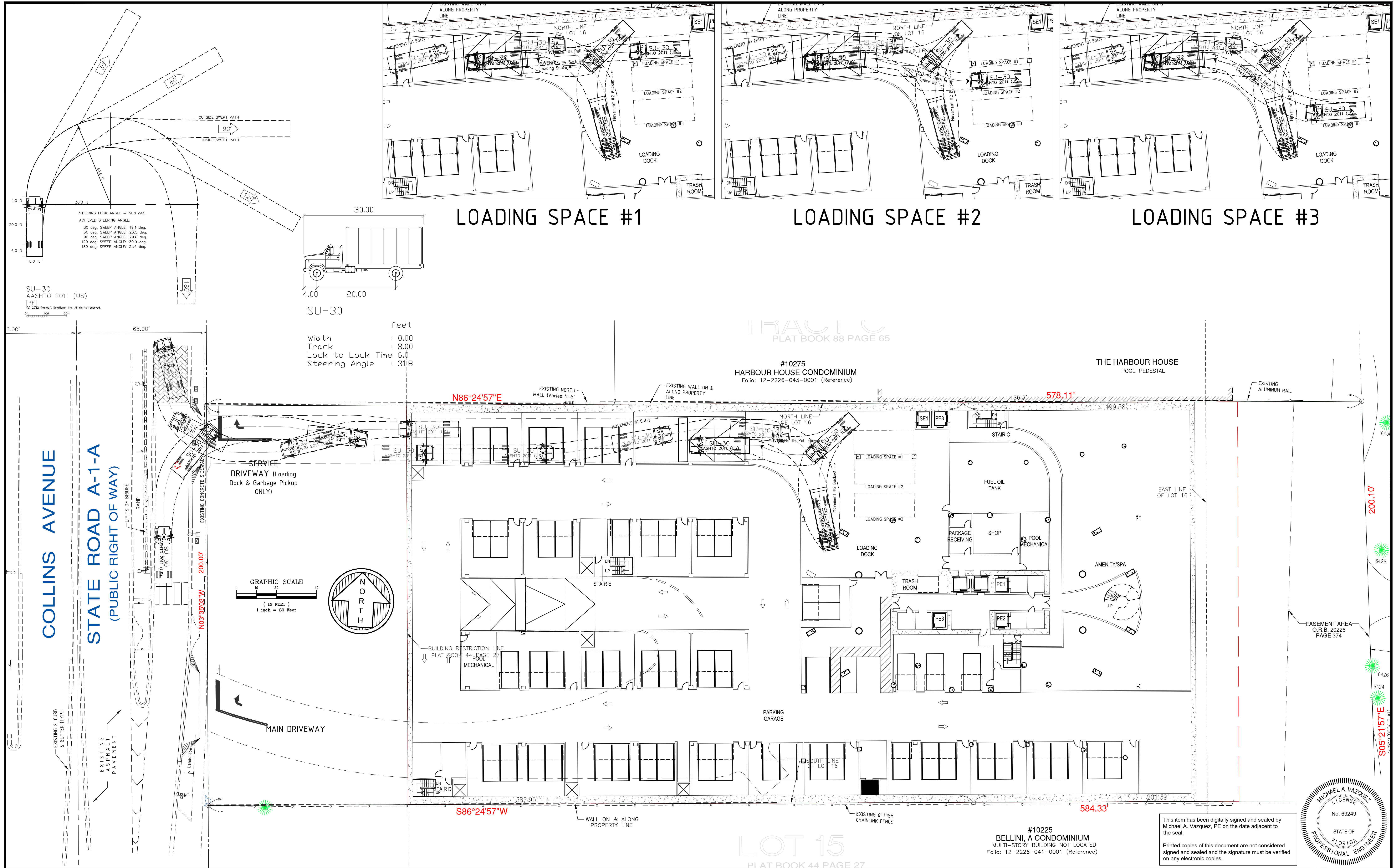
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 Date Plotted: **6/21/2022 11:01 AM**
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 Scale: **1" = 20'**
 Job No.: **210930**

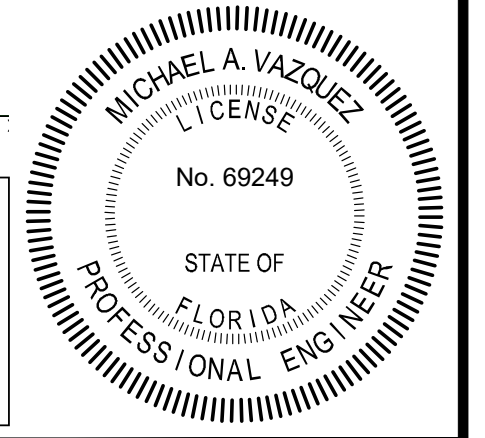
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Bal Harbour Village, Florida

THE RESIDENCES OF BAL HARBOUR
CIVIL SITE PLAN - Passenger Vehicle Drive Entry & Exit Exhibit

Date: **03/23/2022**
 Dwg. No.: **3022-006**
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CONSULTING ENGINEERS, SURVEYORS & MAPPERS
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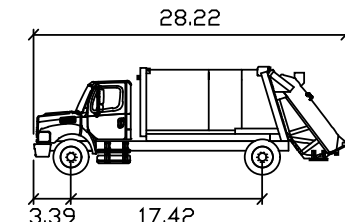
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Ref. Dwg.: **2019-0104-NGVD**
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Scale: **1" = 20'**
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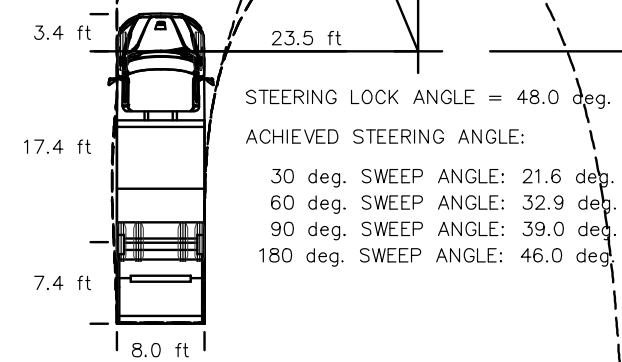
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Bal Harbour Village, Florida

THE RESIDENCES OF BAL HARBOUR
Loading Area - SU 30 Truck Path Exhibit

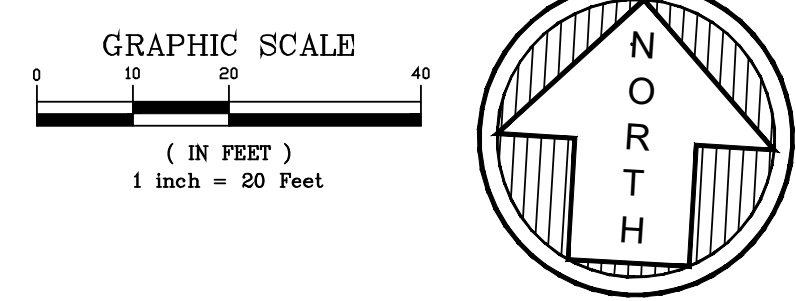
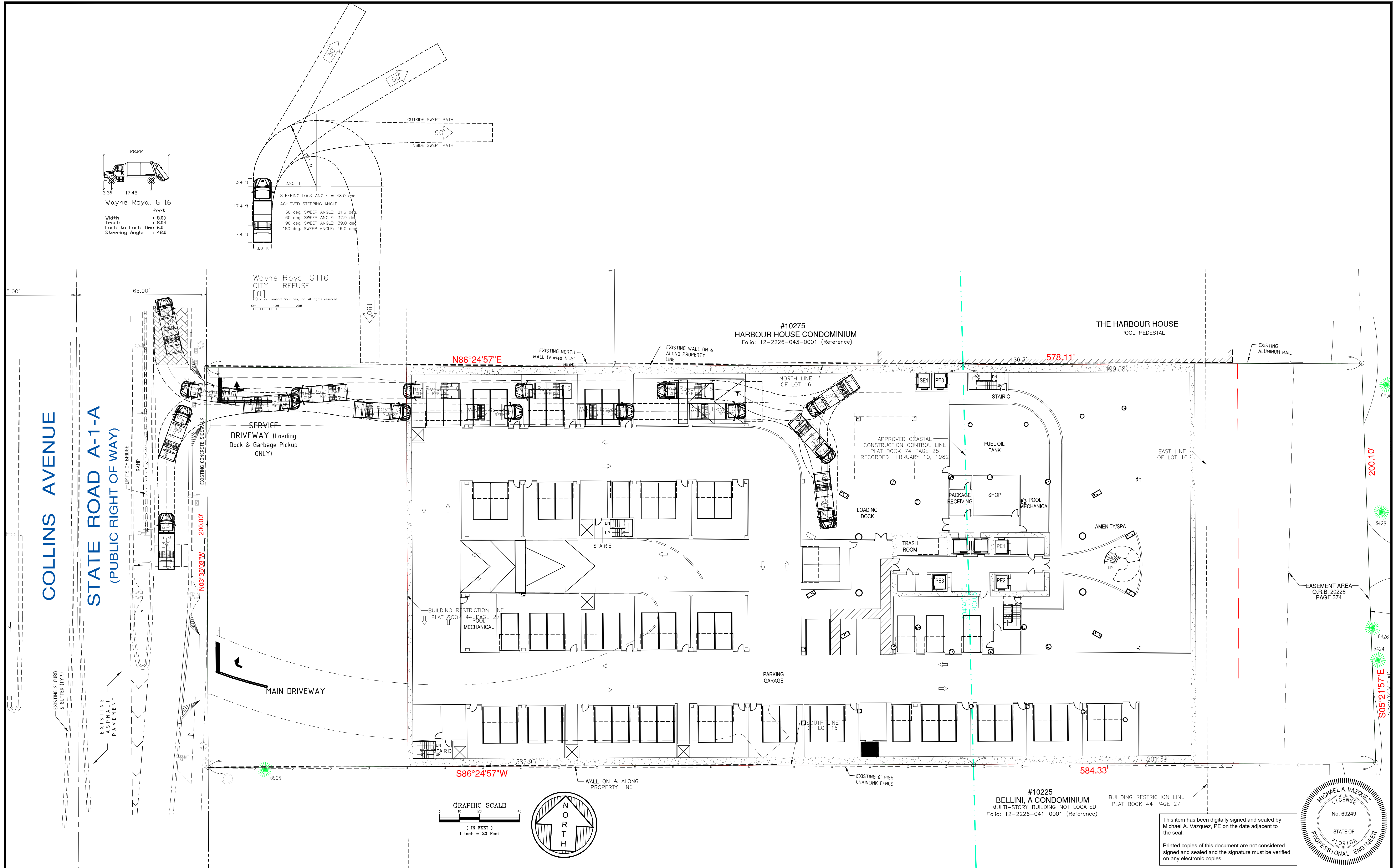
Date: **03/23/2022**
Dwg. No.: **3022-006**
Sheet: **C18**



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 Steering Angle 48.0



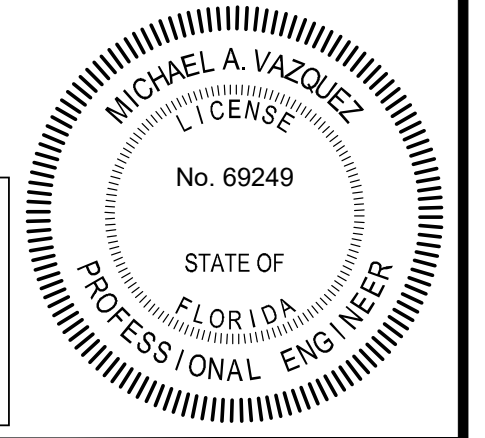
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#10225
 BELLINI, A CONDOMINIUM
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 Folio: 12-2226-041-0001 (Reference)

BUILDING RESTRICTION LINE
 PLAT BOOK 44 PAGE 27

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Bal Harbour Village, Florida

THE RESIDENCES OF BAL HARBOUR
CIVIL SITE PLAN - Garbage Truck Path Exhibit

Date: **03/23/2022**
 Dwg. No.: **3022-006**
 Sheet: **C19**