

An Historical Tale

In 1941 Europe was at war and many wealthy Americans who owned villas in the south of France, Italy and Spain began to wonder if they would ever see them in one piece again. Many decided that a villa in a less troubled part of the world was the answer, and so a large number of "Mansions" were constructed throughout the Bahamas and Caribbean. At least one such villa is here on Harbour Island—that is Runaway Hill and it is just possible that our very own "Haunted House" may well be in this category also.

The house was constructed in 1941 for Colonel Glen Stewart and Mrs. Stewart. Colonel Stewart, it is believed, was a World War I veteran. He was about 60 years old when he had the house built. Colonel and Mrs. Stewart were of English descent and brought with them a French butler and maid. The couple occupied the small apartment in the upper rear of the building. In the front of the top floor were two ensuite "His and Hers" bedrooms, each with common wide verandahs. One enjoyed a view of the harbour, the other, the sea. The downstairs consisted of a dining room, a lounge, a library/study and two day rooms, one at each end of the west facing porch.

The roof was of wooden cedar shingles and had concealed gutters to gather rainwater which was collected in two large cisterns under each porch. Each contained more than 37,000 gallons. In those days there was no well field on Eleuthera. What rainfall you could collect was all the water you had.

In a small single story building at one side of the enclosed courtyard there was a generator room with two 12KW Gensets and a laundry. Here the water for the entire building was heated both by electricity and, believe it or not, by a solar heating panel. The building now houses our gift shop which is open Monday through Saturday.

There were no guest accommodations in the main house, but several cottages and a dock were constructed at the harbour's edge about where the airstrip now stands.

The architect was a Mr. Fox from Nassau, and the contractor of record is believed to be a Mr. Ralph Higgs, also a Nassavian. Much local labor and local materials were used including the floors of hand quarried coral stone from Eleuthera.

Mrs. Pearle, (Frank "Art Gallery/Willies Tavern" Mather's Mother) was employed by the Stewarts as the cook. She has an interesting memory of them that has remained with her throughout the years. When recently she visited the property for the first time in over 40 years she said "You know.., the Master (Colonel Stewart) never touched his chair when he sat down. The butler with his white gloves pulled the chair out for him and pushed it in again". Ah, gracious times!

For all the effort that he must have put into creating the house, Colonel Stewart was destined to enjoy the house for only 3 years. In 1944 he left for a medical check-up fully expecting to return, however he was hospitalized and never did return to the Island. This we believe gave rise to the first of a number of "myths" about the property and its owners. This one we shall call the "Marie Celeste" myth. As the story goes he left the house with the table set for dinner and just disappeared—Poofi!

The Stewarts retained the property until the early 50's. Believing his end was near, he wanted to tidy up his estate. He sold the property to two families from New Jersey, Col. Wright and Edward Van Vooren. At this stage we should point out that the "property" consisted of some 80 acres ranging from harbour to ocean. The property ran all the way from the Romora Bay Club to the cannons at the very Southern tip of the Island.

The Wright and Van Vooren families continued to use the house as a vacation home for a number of years.

In 1958/59, Lester Brown of Nassau and the late Dr. Paul Albury, (the noted Bahamian historian), negotiated to buy the property. With a group of Norwegians they acquired the property and the "Harbour Island Club" was formed. Lester and Dr. Paul owned 20% each, and the Norwegians, 60%. Lester's Brother, Geoffrey Brown was given the task of creating a marina and housing subdivision. Over the next four years his toil resulted in the Triana Shores subdivision and the forerunner of the dock as you see it today. A tract of land was leased to Bahamas Out Island Airways, later to become Bahamasair, and the airstrip was constructed.

The 1,400 foot airstrip became the principle means of access to the Island, replacing the amphibious aircraft which landed in the Harbour and came ashore on the ramp next to Valentine's Yacht Club. A special Briten Norman Islander aircraft was used. It must have been quite an adventure just to get here!

1964 saw an event that was to further shape the destiny of our enterprise, giving rise to yet another myth. An Open Day was held with boats decorating the dock. Ample refreshments were served by the six bartenders. This event could be described as "a host of Big Spenders from all over". One of the guests was a young Greek millionaire, George Lavanos. During the course of the afternoon the sale of most, but not all, of the property was negotiated for \$1,000,000. Included was the house, the airstrip and the unsold portion of Triana Shores. Here arises myth number two. Supposedly the Greek bought the house as a wedding present for his bride and she spent half an hour here, didn't like it, and never returned.



*Port Department
Prince George Dock
P.O. Box N-8175
Phone: (242) 322-8832
Fax: (242) 322-5545
Nassau, Bahamas*

Your Ref:

Our Ref:

POR/6/1

23rd February, 2018

**Alvan K. Rolle
President
Alvan K. Rolle & Associates
P. O. Box N-7401
Nassau, Bahamas**

Dear Sir,

**20/17 HARBOUR ISLAND MARINA (4M HARBOUR ISLAND)
MARINA – HARBOUR ISLAND, ELEUTHERA**

With reference to your application on the above captioned.

Please be advised that your request for construction of a Marina is hereby approved, by the Minister of Transport & Local Government and was subsequently agreed to by the Minister of The Environment & Housing. Approval is subject to The Best Commission's letter dated 11th December, 2017 and environmental safeguards (i.e. best management practices) being carried out (i.e. turbidity control, silt curtains, etc).

Further be informed that you may now procure the necessary permits for commencement of this project, as work should begin within six months from the date of this letter.

Yours sincerely

**Captain Cyril Roker
Acting Port Controller**

CR/bt

BAHAMAS INVESTMENT AUTHORITY

CECIL WALLACE WHITFIELD CENTRE, CABLE BEACH

P. O. Box CB - 10980

NASSAU, N.P., THE BAHAMAS

TEL: (242) 327-5826-9; FAX: (242) 327-5806

OPM/PRJ/Eleuthera/08

28th November, 2018

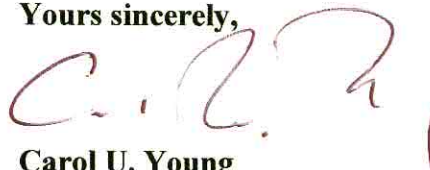
Mr. L. Ryan Pinder
Attorney-at-Law
Graham Thompson
P. O. Box N-272
Nassau, N.P.
The Bahamas
Via Facsimile No.: 362-4810

Dear Mr. Pinder,

4M Harbour Island Ltd. – Seabed Lease Agreement

With reference to our letter dated 6th October, 2017, I am directed to forward for your record, Crown Lease No. 1145, M.P. No. 2891/VI dated 15th November 2018, between the Minister Responsible for Lands and Surveys and 4M Harbour Island Ltd. regarding 11.924 acres or thereabouts of a lot of seabed at Harbour Island, Eleuthera.

Yours sincerely,



Carol U. Young
For Director of Investments

COMMONWEALTH OF THE BAHAMAS

LOCAL GOVERNMENT DISTRICT

CROWN LEASE NO. 1145

NORTH ELEUTHERA

M.P. NO. 2891/VI

THIS LEASE made the 15th day of November in the year of our Lord Two Thousand and Eighteen **BETWEEN THE MINISTER RESPONSIBLE FOR LANDS AND SURVEYS** acting in the name of and on behalf of Her Majesty Queen Elizabeth the Second in right of Her Commonwealth of The Bahamas (hereinafter called "**the Lessor**" which expression shall where the context so admits include his successors in office and assigns) of the **ONE PART** and **4M HARBOUR ISLAND LTD.** a Company incorporated under the Laws of the Commonwealth of The Bahamas having its registered office situate at the offices of Graham Thompson & Co. in the City of Nassau in the Island of **New Providence** one of the Islands of the said Commonwealth (hereinafter called "**the Lessee**" which expression shall where the context so admits include its successors and assigns) of the other part **WITNESSETH** as follows:

In consideration of the rent hereinafter reserved and of the covenants and conditions hereinafter contained and on the part of the Lessee to be paid performed and observed the Lessor hereby demises unto the Lessee **ALL THAT** certain piece parcel or lot of the sea bed containing by admeasurement Eleven and Nine Hundred and Twenty Four Thousandths (11.924) Acres or thereabouts situate in Harbour Island on the Island of Eleuthera another one of the Islands of the said Commonwealth as shown on MP File No. 2891/VI on record in the Department of Lands and Surveys. **ABUTTING AND BOUNDING** towards the **NORTH** by the Sea and running thereon for a total distance of Eleven Hundred and Forty (1140.00') feet, towards the **EAST** along the high water mark by the land said to be the property of Rose Estates, towards the **SOUTH** by the Sea and running thereon for a total distance of Eleven Hundred and Twenty-three (1123.00') feet, towards the **WEST** by the Sea and running thereon for a total distance of Five Hundred and Thirty-four and Eighty-five hundredths (534.85') feet or however else the same

may abut and bound which said piece parcel or lot of land (hereinafter called the "**the Demised Premises**") is more particularly delineated and shown colored pink on the plan of the area hereto annexed and marked. **TO HOLD** the same unto the Lessee from the 1st day of October in the year of our Lord Two Thousand and Eighteen for a term of **Twenty-one (21) Years** (hereinafter called "**the said Term**") and paying therefore during the said Term a yearly rent of Eleven Thousand, Nine Hundred and Twenty-Four Dollars (\$11,924.00) in the currency of the said Commonwealth of The Bahamas (hereinafter called "**the said Currency**") payable each year on the anniversary of the commencement date of the said Term.

2. The Lessee for **itself** and **its** assigns and to the intent that the obligations herein contained may continue throughout the said Term hereby created **HEREBY COVENANTS** with the Lessor as follows;-

- (a) to pay the rent hereby reserved to the Director of Lands and Surveys at his office in Nassau, New Providence at the times and in the manner aforesaid and to bear, pay and discharge all electrical water, gas, cable and telephone rates and any other utility rates imposed charged upon the Demised Premises upon the owner or occupier in respect thereof;
- (b) to use the Demised Premises for the purpose of constructing and operating a marina;
- (c) not to assign underlet or part with the possession of the Demised Premises or any part thereof without obtaining the prior written consent of the Lessor (such consent not to be unreasonably withheld in the case of a respectable and responsible person) and where permission is granted the Lessor reserves the right to levy a reasonable fee in respect thereof **PROVIDED ALWAYS** that no such permission shall in any way relieve the Lessee from responsibility for non-fulfilment of any conditions of this Lease or non-compliance therewith;

- (d) permit the Lessor or his servants or agents or anyone authorized by him in that behalf with or without workmen and others at all reasonable times to enter upon the Demised Premises to view the same for any purpose whatsoever;
- (e) to use the Demised Premises in a proper and tenant like manner to the satisfaction of the relevant Governmental Authorities for the maintenance of docking facilities and not to construct any piers or jetties without first obtaining the approval from the relevant Government Authorities;
- (f) to obtain wherever necessary the prior approval of the Minister Responsible for Public Works and the Minister Responsible for Health, or any other relevant Governmental Agencies, for the erection of any building or other structures on the Demised Premises and for the effecting of any additions, alterations, and repairs to any existing or future buildings;
- (g) to keep the Demised Premises and any buildings, out buildings structures and conveniences thereon in a proper and sanitary condition at all times and to satisfaction of the relevant Government Authorities;
- (h) to practice such health measures under the advice of the Minister Responsible for Health and the Minister Responsible for Public Works for the prevention, control and elimination of disease;
- (i) throughout the said Term the Lessee shall effect a policy of public liability insurance with a reputable insurance company or agency and to the satisfaction of the Lessor and naming the Lessor as an insured party thereto relative to any buildings or jetties, inter alia, comprising the Demised Premises from time to time in an amount at least to the extent of the replacement value thereof, and shall

pay all premiums in respect thereof whenever the same shall become due; and provide proof of the validity of such insurance to the Lessor annually;

- (j) Not to make any changes in the risks covered by the said policy of insurance without the prior written consent of the Lessor and to produce to the Lessor on demand written confirmation from the insurers that they have agreed to waive all rights of subrogation against the Lessor;
- (k) to be responsible for the care and maintenance of such concrete pillars iron stakes and/or other survey marks of whatsoever nature as may be placed at the corners of or along the boundaries of the Demised Premises for the purpose of marking the boundaries thereof;
- (l) to practice and use the strictest safety measures as may be required during the said term of the lease;
- (m) to use the Demised Premises so as not to cause any nuisance or annoyance to neighboring owners or occupiers;
- (n) to abate any nuisance arising on or emanating from the Demised Premises immediately upon being required so to do either by the Lessor or other person acting under the authority or by the appropriate Governmental Authorities;
- (o) and to indemnify and hold harmless the Lessor against and from all actions claims suits and demands whatsoever to which the Lessor may be or become liable arising out of any use to which the Demised Premises might be put;
- (p) to pay the cost of surveying the Demised Premises whenever necessary and the costs of and incidental to the drafting of this Lease;

- (q) at the determination of the said Term (or sooner determination) to yield up to the Lessor the Demised Premises together with all improvements thereto apart from any building or jetties erected by the Lessee on the said Demised Premises;
- (r) not to desert, neglect or leave the Demised Premises unoccupied or unused for a period of more than three (3) consecutive months without the written consent of the Lessor first had and obtained.
- (s) Not to store or bring upon the Demised Premises any article of a specially combustible inflammable or dangerous nature except for diesel fuel, natural gas, butane gas, propane gas, or other hydrocarbons or chemicals used in connection with the operation and maintenance of the Demised Premises and the improvements and activities conducted thereon **PROVIDED THAT** such diesel fuel natural or butane gas and other chemicals are properly stored and all waste products and materials are disposed of in an environmentally safe and sound manner and in accordance with the Environmental Health Services Act, Chapter 232, The Statute Law of The Bahamas, Revised Edition of 2000 and any statutory modification or reenactment of the same and **PROVIDED FURTHER THAT** the Lessee will indemnify the Lessor and keep the Lessor fully indemnified against any losses which shall occur after the date hereof in respect of damage to or pollution of or any substance on them the environment or damage to property or harm to human health caused by the Demised Premises or any substance on them whether in liquid or solid form or in the form of gas or vapor **AND** not to do or suffer to be done on the Demised Premises any act matter or thing which may be or become a nuisance or damage to the Lessor or to the owners tenants or occupiers of any adjoining or neighboring property or to the neighborhood and to keep fully indemnified the Lessor against all action suits or other

proceedings claims or demands arising, directly or indirectly, out of any such act or thing as aforesaid;

- (t) Not to hold on trust for another or part with possession of the whole or any part of the Demised Premises or permit another to occupy the whole or any part of the Demised Premises without the prior written consent of the Lessor;
- (u) Not to use the Demised Premises for any illegal or immoral act or purpose;
- (v) Not to use the Demised Premises as sleeping accommodation or for residential purposes;
- (w) To be responsible for and keep the Lessor fully indemnified against all damages losses costs expenses actions demands proceedings claims and liabilities made against or suffered or incurred by the Lessor arising directly or indirectly out of any act omission or negligence of the Lessor or any person at the Demised Premises expressly or impliedly with the Lessee's control or any breach or non-observance by the Lessee of the covenants conditions or other provisions of this Lease or any of the matters to which this demise is subject;
- (x) To give notice to the Lessor of any defect in the Demised Premises which might give rise to an obligation on the Lessor to do or refrain from doing any act or thing in order to comply with the provisions of this Lease or the duty of care imposed on the Lessor pursuant to any law;
- (y) upon twenty-four (24) months prior written notice delivered by the Lessor to the Lessee, surrender from time to time to the Lessor any part of the Demised Premises as may be reasonably required by the Lessor for a "public purpose" as defined by the laws of the

Commonwealth of The Bahamas and subject to the provisions of the Constitution of the Commonwealth of The Bahamas with respect to compulsory acquisition subject to the terms (including payment of compensation) of the Acquisitions of Land Act, Chapter 252, The Statute Law of The Bahamas, Revised Edition of 2000 and any statutory modification or reenactment of the same; and

- (z) To permit the Lessor at all times during the Term to exercise without unlawful interruption or interference any of the rights granted to him by virtue of the provisions of this Lease.

3. The Lessor to the intent that the obligations herein contained shall continue throughout the term hereby created **HEREBY COVENANTS** with the Lessee as follows:-

- (a) that the Lessee paying the rent hereby reserved and observing and performing the covenants and conditions herein contained and on the part of the Lessee to be observed and performed shall peaceably and quietly hold and enjoy the Demised Premises during the said term without interruption by the Lessor or any other person rightfully claiming under or in trust for him;
- (b) That notwithstanding the provisions of sub-clause (c) of this clause the Lessee shall have the right:
 - (i) to build construct erect install place alter amend repair and maintain both on the Bed of the Sea hereby demised and in and upon the water on top of the Demised Premises all buildings structures installations apparatus equipment fixtures and things whether permanent or temporary of every nature and kind whatsoever including (without prejudice to the generality of the foregoing words) piers, wharfs, docks, dolphin mooring posts, mooring bollards,

anchors, moorings, mooring chains and mooring lines of all kinds, pipes and pipelines both fixed and floating) pumps and valves of all kind, and;

(ii) to anchor, moor, tie up, load and unload ships, vessels and boats of all kinds within the boundaries of the Demised Premises and whether from such buildings structures installations apparatus equipment fixtures and things as aforesaid or from vessels or barges or otherwise howsoever;

(c) that subject to the provisions of sub-clause (b) of this clause nothing contained in these presents shall be deemed to restrict the right of navigation of the public to use the water on top of the bed of the sea hereby demised as a highway for shipping and for the movement of ships vessels and boats of all kind so long as the exercise of such right or navigation by the public does not:

(i) interfere with obstruct damage or disturb in any way any buildings, structure, installation, apparatus, equipment and things placed on the demised premises by the Lessee and the use of the Demised Premises and the water on top of the same by the Lessee as a marina for the docking, loading and unloading of ships vessels and boats of all kinds within the boundaries of the Demised Premises by the Lessee, and;

(ii) interfere with obstruct damage or disturb in any way ingress, egress and regress in, through and to the entrance channels, aprons anchorages, moorings, dolphins aforesaid by ships vessels and boats of all kinds.

Provided always that no exercise by the public of the right to navigation aforesaid nor any interference obstruction, damage or disturbance as specified in paragraphs (i) and (ii) of this sub-clause

caused by and/or arising thereby shall be deemed to be a breach by the Lessor of any of the covenants on the part of the Lessor herein contained and provided further that the Lessee without in any way waiving any and all rights the Lessee may have against any person or corporation causing any such interference, obstruction, damage or disturbance as aforesaid will not call upon the Lessor to prevent the same and provided further that the Lessor shall, however upon the request and at the expense of the Lessee, support the Lessee in such manner as the Lessee may reasonably request in any legal proceedings the Lessee may initiate and maintain against any person or corporation causing any such interference, obstruction, damage or disturbance as aforesaid;

- (d) Provided that there shall be no existing breach or non-observance which covenants on the part of the Lessee herein contained for which the Lessor has given the Lessee written notice thereof and the Lessee has not taken reasonable steps to remedy the breach of non-observance of the said covenant the Lessor shall on the written request of the Lessee made at least twelve (12) months prior to the expiration of the term hereby created enter into negotiations with the Lessee concerning any possible renewal or subsequent term, if any, to be granted by the Lessor to the Lessee.

4. **PROVIDED ALWAYS AND IT IS HEREBY MUTUALLY AGREED AND DECLARED** as follows:—

- (a) subject to Clause 2 (c) above it is agreed that the Lessee will have the right to sub-lease and/or rent marina slips at its marina within the Demised Premises for a period up to the said Term.
- (b) Notwithstanding anything herein contained the parties hereby agree that in the event Parliament approves an increase in the fees levied under the provisions of the Port Authorities (Amendment) Act, 2003

upon commercial jetties situated in the Family Islands of The Bahamas, the yearly rental for the subsequent years will be reflective of such increases, in accordance with the Act.

- (c) that if the rent hereby reserved or any part thereof shall be at any time unpaid for thirty (30) days after becoming payable (whether formally demanded or not) or if any covenant of the Lessee herein contained shall not be performed or observed or if the Lessee or other person in whom for the time being the term hereby created goes into liquidation or is wound up other than for the purposes of amalgamation or re-construction then and in any of the said cases it shall be lawful for the Lessor after giving reasonable written notice thereof to the Lessee to re-enter upon the Demised Premises or any part thereof in the name of the whole and thereupon this Lease shall absolutely determine but without prejudice to the right of action of the Lessor in respect of any breach of the Tenant's covenants herein contained.

- (d) that this Lease shall not confer on the Lessee the right at any time to any gold or other metals minerals ores bauxite gems or precious stones coal natural gas or mineral oil or any other natural resource or mineral or mineral oil calcareous deposits commonly known or referred to as aragonite sand aggregate or lime stone or otherwise in, under or above the Demised Premises and the same shall be saved and reserved unto the Lessor with the right to enter upon the Demised Premises or any part thereof to search and mine thereon and to extract and carry away therefrom any such metals minerals ores bauxite gems or precious stones coal natural gas or mineral oil or any other natural resource or mineral or otherwise subject however to the right of the Lessee to reasonable compensation for any loss or damage to its occupation of or improvements on the Demised Premises occasioned by such searching mining extracting

and carrying away the amount of such compensation to be agreed between the parties and failing agreement to be determined by the Lessor at his discretion;

- (e) that this Lease shall be subject always to the right of the Government of the Commonwealth of The Bahamas to establish maintain and extend water supply or sewerage systems into through across under or over the Demised Premises in accordance with the provisions of the Laws of the said Commonwealth;
 - (f) That the Lessor shall at all times during the term hereby created have the right to enter upon and resume possession of any part or parts of the Demised Premises which the Lessor may consider necessary for the construction of any railway tramway bridge telephone lines road or power transmission facilities or convenience or to sell lease licence or otherwise dispose of to any person any part of the Demised Premises for any of the aforesaid public purposes without compensation to the Lessee in respect of any part so resumed or sold leased licensed or otherwise disposed of as herein stipulated;
 - (g) that any notice to be served hereunder shall be in writing and shall be sufficiently served on the Lessor if hand delivered or sent by registered mail to the Director of the Department of Lands and Surveys, Bay and Armstrong Streets, P.O. Box N-592, Nassau, The Bahamas and on the Lessee, if hand delivered or sent by registered post to Graham Thomson, Sassoon House, Shirley Street and Victoria Ave. P.O. Box N-213, New Providence, The Bahamas. Any notice sent by registered post shall be deemed to be served fourteen (14) days after the envelope or package containing the same has been delivered into the care of the Postal Authority;
5. If either the Lessor or the Lessee shall for any reason desire to determine the Lease hereby granted after the expiration of twelve (12) months from the date

THE SCHEDULE HEREINBEFORE REFERRED TO



DESCRIPTION

AREA = 11.924 Acres

“**ALL THAT** certain piece parcel or lot of the sea bed containing by admeasurement Eleven and Nine Hundred and Twenty Four Thousandths (11.924) Acres or thereabouts as shown on MP File No. 2891/VI on record in the Department of Lands and Surveys situate in Harbour Island on the Island of Eleuthera in the Commonwealth of The Bahamas. **ABUTTING AND BOUNDING** towards the **NORTH** by the Sea and running thereon for a total distance of Eleven Hundred and Forty (1140.00’) feet, towards the **EAST** along the high water mark by the land said to be the property of Rose Estates, towards the **SOUTH** by the Sea and running thereon for a total distance of Eleven Hundred and Twenty-three (1123.00’) feet, towards the **WEST** by the Sea and running thereon for a total distance of Five Hundred and Thirty-four and Eighty-five hundredths (534.85’) feet or however else the same may abut and bound which said piece parcel or lot of the sea bed (hereinafter called the "**the Demised Premises**") is more particularly delineated and shown colored pink on the plan of the area thereto annexed and marked.”

LEASE PLAN

IN WITNESS WHEREOF the parties have hereunto
set their hands and affixed their seals the day and year
first hereinbefore written.

IN WITNESS WHEREOF the)
Official Seal of the Minister)
Responsible for Lands & Surveys)
THE HON. HUBERT ALEXANDER)
MINNIS) 
) **MINISTER RESPONSIBLE**
and the said Minister) **FOR LANDS AND SURVEYS**
)
Subscribed his)
)
signature hereto)
)
)
)
In the presence of:) 
WITNESS

COMMONWEALTH OF THE BAHAMAS

NEW PROVIDENCE

I Candia A. P. Ferguson of the Eastern
District of the Island of New Providence one of the Island of the Commonwealth
of the Bahamas,..... do hereby make oath and say that I was present and saw
THE HONOURABLE HUBERT ALEXANDER MINNIS of the Western
District of the said Island of New Providence **MINISTER RESPONSIBLE FOR**
LANDS AND SURVEYS sign seal as and for his Act and Deed execute and deliver
the Indenture of Lease dated the 15th day of November A.D. 2018 for the purposes
therein mentioned; and that I subscribed my name as the witness to the due
execution thereof.

Sworn to at Nassau Bahamas)
thisday of)
A.D., 20.....)

) CdP
)
WITNESS

BEFORE ME:



NOTARY PUBLIC

COMMONWEALTH OF THE BAHAMAS

NEW PROVIDENCE

I, L. Ryan Pinder of the Eastern District.....in the Island of New Providence one of the Islands in the Commonwealth of The Bahamas,....., make oath and say that I was present and saw the common seal of HM Harbour Island Ltd affixed to the Indenture of Lease dated the day of _____ A.D., by the President/Director and Secretary Director respectively, of the said Company and I saw the said President / Director and Secretary ..sign execute and deliver the said indenture of Lease as and for the act and deed of the said Company for the purposes therein mentioned and that I subscribe my name as the witness to the due execution thereof. Further that the seal affixed and impressed at the foot or end of the said Indenture of Lease is the Common seal of the said Company and was affixed and impressed thereby the said.....and..... by the order and with the authority of the Board of the said Company and in conformity with the Articles of Association of the said company.

Sworn to at New Providence)

)

this 10, day of)

)

October A.D., 20 18)



WITNESS




BEFORE ME:

JUSTICE OF THE PEACE

RECORDED IN THE DEPARTMENT OF LANDS AND SURVEYS

THIS 22 DAY OF November A.D. 2010 AND NUMBERED

CROWN LEASE NO. 1145


SURVEYOR GENERAL
DEPARTMENT OF LANDS AND SURVEYS

LEASE DIAGRAM

N282000CM

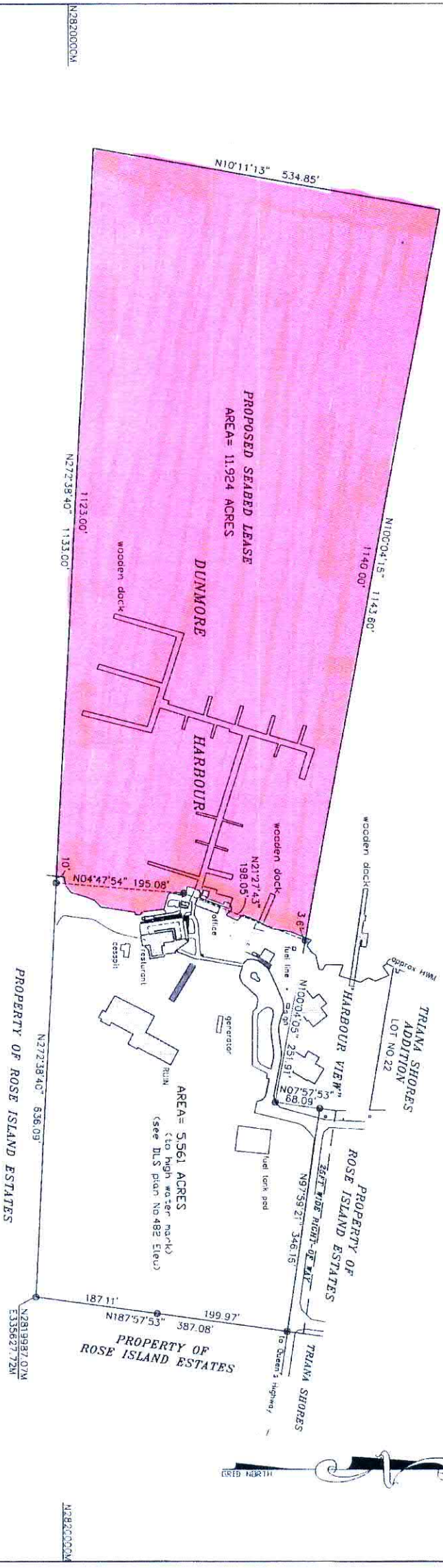
E335100M

E335300M

E335500M

E335700M

N282000CM



NOTES

REFERENCE plan by Caribbean Surveys Ltd dated Grid connection was made to Dept of Lands & Surveys plan NO482 EL Coordinates are UTM Grid (MAD 27)

- Survey monument set
- Survey monument found
- Concrete wall
- Chain link fence

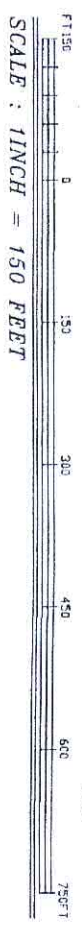
SURVEYOR'S CERTIFICATE

I, Donald E. Thompson a surveyor licensed & registered in the Bahamas hereby certify that this plan has been made from surveys executed by me or under my personal supervision, that both the plan & survey are correct & have been made in accordance with the Land Surveyor's Act, 1975, and the Land Surveyor's Regulations, 1975 made thereunder.

Donald E. Thompson Reg. No. 037

PLAN
SHOWING
HARBOUR ISLAND MARINA RESORT
HARBOUR ISLAND
ELEUTHERA - BAHAMAS

SURVEYED AT THE INSTANCE OF 4M HARBOUR ISLAND LIMITED DATE 17TH, MARCH, 2015 AMENDED 3RD JAN, 2018



As-Surveyor-General

Approved by *[Signature]*
Checked by *[Signature]*

Recorded in the DLS in accordance with section 3 of the Land Surveyor's Act, 1975 as plan NO. THIS DAY OF 2018

DONALD E. THOMPSON & ASSOCIATES
 Land Surveyors-Plane-Engineers
 P.O. BOX N-9771 Tel. (242) 323-3014 Nassau, Bahamas

Survey by: JAMAL ROLLE
 Plan by: D. THOMPSON

DATED: THIS

15th

DAY OF

November

A. D.,

2018

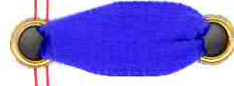
THE MINISTER RESPONSIBLE FOR LANDS AND SURVEYS

TO

4M HARBOUR ISLAND LTD.

LEASE

DEPARTMENT OF LANDS AND SURVEYS



APPENDIX C: SPILL PREVENTION / HURRICANE AND EMERGENCY ACTION PLAN

ENVIRONMENTAL TRAINING PLAN

1 Purpose

This purpose of this document is twofold. Firstly it is to ensure that all existing and new employees are provided with sufficient information, on how to use the EMP manual, that will be located onsite. Secondly, it is to provide all employees with some basic environmental awareness training, so that they can incorporate Best Environmental Practices into their daily work routine.

This training plan contains the following sections:

- 3.0 Competence requirements
- 4.0 Induction Training
- 5.0 Employee Personal Development
- 6.0 Work Environment

2 Procedure

The developer is responsible for identifying the individuals that will be a part of the project team. The EM is responsible for the identification of competency requirements, and ensuring that all existing and new employees are properly trained to work within the project team and work environment. Training records for all employees shall be kept on file at the project site.

3.0 Competence requirements

The Developer/Owner and the Project Management Team shall identify the required level of qualifications and experience / training that staff need to possess for each post. Previous experience and formal qualifications will also be recorded during the recruitment process as appropriate.

The competencies necessary for personnel performing activities affecting operational, quality and environmental performance are defined in the general job descriptions and employment contracts. Once a new employee is hired, the individual is sent an employment acceptance letter, and a contract of employment. Each new employee has a file that is created to record progress, training records and any other history of activities during the employee tenure with the company. At minimum each new employee is required to have the basic job skills, such as being able to communicate both orally and in writing. For more technical (Supervisory) or management level employees, a basic high school diploma is mandatory, as well as the necessary degrees and certifications appropriate for the job role.

4.0 Induction training

All new employees shall receive induction training, which as a minimum includes a Health & Safety, Quality and Environmental induction. This educates the employee on the use and importance of the proper job PPE's, what to do in the event of an emergency, the correct protocols and procedures to follow and the responsible party who should be notified. All of these standards and guidelines are included in the site Environmental Management Plan, which is the document that is used to manage all environmental related matters on the project site. The induction training shall be organized and document by the project's EM, and can be administered by any of the project's senior management team members.

Induction training is carried out through presentation and the provision of the Environmental Management Plan. This document is available onsite at all times, and all employees have access to the document, should they need to review or understand the document to a greater extent. Once the employee completes the induction, the document is signed by the individual and kept on the employee's personal to verify that the training has been done.

Where appropriate, a three-month probation is carried out with new employees and is recorded on the induction form, along with any immediate training needs.

5.0 Employee personal development

Training requirements are reviewed annually during annual appraisal, or at any time that the management team feels that further development is required for the individual. The employee personal development can be either or both of the following:

ENVIRONMENTAL TRAINING PLAN

- i) External training courses.
- ii) Internal training courses.

Any external training such as technical or management training are documented and a record is kept on the individual's personal file. External training can take on the form of industry and/or environmental training and standards certifications. Similarly, internal training are also documented and a record is kept on the employee's personal file. These can take on the form of on the job training, online courses and personal development through the use of daily policy and procedures.

The employees training plan is always updated and reviewed, for further improvement and how it can best meet the employees and project needs.

6.0 Work environment

Appropriate work environments have been considered and implemented in accordance with the project conditions, and the standards and guidelines set out in the EMP document. This includes the appropriate working environment for general staff, contractors and construction workers. Health & Safety and environmental issues have been considered and appropriate practices implemented in the support of safe working environments in the EMP document.

FIRE DRILLS / EVACUATION PROCEDURES

Fire drills are critical for ensuring the safety of the staff guests visiting the island and dolphin facility, and for those entering the property or building. Practicing scheduled fire drills will help ensure individuals have the knowledge to safely escape a fire without injuring themselves or others.

Fire drills should be conducted by the person responsible for the building, or the designated person responsible for fire and safety. There is no minimum amount of time drills can be conducted. However, the key is to ensure that staff are well prepared on how to react in an emergency, as in the case of a fire

All fire drills should be recorded and documented.

Pre-Fire Drill Procedures

To be conducted by supervisory staff or maintenance personnel.

1. Contact the fire alarm monitoring company and advise them of the upcoming fire drill. In this case since the island is a relatively far distance from the mainland, it would not be practical to carry out this step in the drill, unless there was an actual fire.

Initiating the Fire Drill

Is there a “Fire Drill” feature on the panel? (If Installed)

Yes – utilize this feature to activate alarms for the purpose of the fire drill.

No – activate the nearest manual pull station or announcement alert.

2. Record the time from the activation of the fire alarm/announcement to the evacuation of all staff and clientele.

During the Fire Drill

Supervisory staff are to monitor the evacuation process and note any of the following:

- Are individuals closing the doors upon exiting rooms?
- Are individuals remaining calm and proceeding towards the nearest exit?

- Are individuals assembling at the designated muster point?
- Are fire wardens (if applicable) ensuring the safe evacuation of all individuals?
- Are all individuals being accounted for (if applicable)?
- Are exits guarded to prevent re-entry into the building?

After the Fire Drill

1. Record the total evacuation time in the evacuation checklist report.
2. Silence the alarms, reset the manual pull station and reset the fire alarm system if available.
3. Ensure the fire alarm system is back to normal operating condition.
4. Inform individuals that they can re-enter the building.
5. Contact the fire alarm monitoring company if possible or external contact to advise that the fire drill is complete.
6. Re-evaluate any concerns that arose during the fire drill and discuss as a group (ex. safety meeting).
7. Keep record of the fire drill and any notes on the evacuation checklist report.

EMERGENCY ACTION PLAN

for



Name of Site: Harbour Island Resort and Marina

Site Location: Harbour Island, Eleuthera, The Bahamas

Preparation Date: **May 16, 2019**

EMERGENCY PERSONNEL NAMES AND PHONE NUMBERS

DESIGNATED RESPONSIBLE OFFICIAL (Property/Project Manager)

1. Name: Mr. Michael Johnson Mobile contact: (242) 359-7212
Project Site Manager

2. Name: Franklyn Hall _____ Mobile: (242) 556-5135
Environmental Manager

Local Island Contact for Emergency

Name: Frances Hepburn

Administrator and Commissioner's Office

Contact: (242) 333-3031

EVACUATION ROUTES

- Evacuation route maps have been posted in each work area. The following information is marked on evacuation maps:
 1. Emergency exits
 2. Primary and secondary evacuation routes
 3. Locations of fire extinguishers
 4. Assembly points

- Site personnel should know at least two evacuation routes.

EMERGENCY PHONE NUMBERS

POLICE AND FIRE EMERGENCY: (242) 333-2111
(919) – National Police and Fire Emergencies

MEDICAL EMERGENCY: (242) 333-2277
Harbour Island Community Clinic

UTILITY COMPANY EMERGENCY CONTACTS

(Specify name of the company, phone number and point of contact)



Bahamas Power and Light

Contact (If Applicable): Phone: (242) 333-2255



Water and Sewerage Corporation

Contact (If Applicable): Phone: (After 6:00 pm) (242) 333-2417



BTC

Contact (If Applicable): Phone: (242) 333-2376



cablebahamas



Cable Bahamas

Contact (If Applicable): Phone: (242) 300-2200

Gas Company (if applicable): _____

EMERGENCY REPORTING AND EVACUATION PROCEDURES

Types of emergencies to be reported by site personnel are:

- Medical
- Fire (***See Fire Drills Procedure Appendix**)
- Severe Weather
- Bomb Threat (***See Bomb Threat Checklist Appendix**)
- Chemical Spill
- Oil Spill (***See Oil Spill Control Procedures Appendix**)
- Extended Power Loss
- Flooding/Storm Surge
- other (specify) _____
(e.g., terrorist attack/hostage taking)

MEDICAL EMERGENCY

- Call medical emergency phone number (check applicable):

- Paramedics
- Ambulance
- Fire Department
- Other

Provide the following information:

- Nature of medical emergency,
 - Location of the emergency (address, building, room number),
and
 - Your name and phone number from which you are calling.
- Do not move victim unless necessary.
 - Call the following personnel trained in CPR and First Aid to provide the required assistance prior to the arrival of the professional medical help:

Name: _____ Phone _____

Name: _____ Phone: _____

- If personnel trained in First Aid are not available, as a minimum, attempt to provide the following assistance:
 1. Stop the bleeding with firm pressure on the wounds (note: avoid contact with blood or other bodily fluids).
 2. Clear the air passages using the Heimlich Maneuver in case of choking.
- In case of rendering assistance to personnel exposed to hazardous materials, consult the Material Safety Data Sheet (MSDS) and wear the appropriate personal protective equipment. Attempt first aid ONLY if trained and qualified.

Date: **May 16, 2019**

FIRE EMERGENCY

When fire is discovered:

- Activate the nearest fire alarm (if installed)
- Notify the local Fire Department by calling 919.
- If the fire alarm is not available, notify the site personnel about the fire emergency by the following means (check applicable):
 - Voice Communication
 - Phone Paging
 - Radio
 - Other (specify)

Fight the fire ONLY if:

- The Fire Department has been notified.
- The fire is small and is not spreading to other areas.
- Escaping the area is possible by backing up to the nearest exit.
- The fire extinguisher is in working condition and personnel are trained to use it.

Upon being notified about the fire emergency, occupants must:

- Leave the building using the designated escape routes.
- Assemble in the designated area (specify location):
- Remain outside until the competent authority (Designated Official or designee) announces that it is safe to reenter.

Designated Official, Emergency Coordinator or supervisors must:

- Disconnect utilities and equipment unless doing so jeopardizes his/her safety.
- Coordinate an orderly evacuation of personnel.
- Perform an accurate head count of personnel reported to the designated area.
- Determine a rescue method to locate missing personnel.
- Provide the Fire Department personnel with the necessary information about the facility.
- Perform assessment and coordinate weather forecast office emergency closing procedures
- Ensure that all employees have evacuated the area/floor.
- Report any problems to the Emergency Coordinator at the assembly area.

Assistants to Physically Challenged should:

- Assist all physically challenged employees in emergency evacuation.

Date: **May 16, 2019**

EXTENDED POWER LOSS

In the event of extended power loss to a facility certain precautionary measures should be taken depending on the geographical location and environment of the facility:

- Unnecessary electrical equipment and appliances should be turned off in the event that power restoration would surge causing damage to electronics and effecting sensitive equipment.

Upon Restoration of heat and power:

- Electronic equipment should be brought up to ambient temperatures before energizing to prevent condensate from forming on circuitry.

CHEMICAL SPILL

The following are the locations of:

Spill Containment and Security Equipment: _____

Personal Protective Equipment (PPE):

Material Safety Data Sheet

(MSDS): _____

When a Large Chemical Spill has occurred:

- Immediately notify the designated official and Emergency Coordinator.
- Contain the spill with available equipment (e.g., pads, booms, absorbent powder, etc.).
- Secure the area and alert other site personnel.
- Do not attempt to clean the spill unless trained to do so.
- Attend to injured personnel and call the medical emergency number, if required.
- Call a local spill cleanup company or the Fire Department (if arrangement has been made) to perform a large chemical (e.g., mercury) spill cleanup.

Name of Spill Cleanup Company: _____

Phone Number: _____

- Evacuate building as necessary

When a Small Chemical Spill has occurred:

- Notify the Emergency Coordinator and/or supervisor (select one).
- If toxic fumes are present, secure the area (with caution tapes or cones) to prevent other personnel from entering.
- Deal with the spill in accordance with the instructions described in the MSDS.
- Small spills must be handled in a safe manner, while wearing the proper PPE.
- Review the general spill cleanup procedures.

Date: **May 16, 2019**

OIL SPILL

The following are the locations of:

Spill Containment and Security Equipment: _____

Personal Protective Equipment (PPE):

Material Safety Data Sheet

MSDS: _____

When a Large Oil Spill has occurred:

- Immediately notify the designated official and Emergency Coordinator.
- Contain the oil spill with available equipment (e.g., pads, booms, absorbent powder, etc.).
- Secure the area and alert other site personnel.
- Do not attempt to clean the spill unless trained to do so.
- Be prepared to evacuate dolphins from pens if necessary

When a Small Oil Spill has occurred:

- Notify the Emergency Coordinator and/or supervisor (Vicky or Samir Andrawos).
- Small spills must be handled in a safe manner, while wearing the proper PPE.
- Review the general oil spill cleanup procedures.

Date: **May 16, 2019**

TELEPHONE BOMB THREAT CHECKLIST

INSTRUCTIONS: BE CALM, BE COURTEOUS. LISTEN. DO NOT INTERRUPT THE CALLER.

YOUR NAME: _____ TIME: _____ DATE: _____

CALLER'S IDENTITY SEX: Male _____ Female _____ Adult _____ Juvenile _____

APPROXIMATE AGE: _____

ORIGIN OF CALL: Local _____ Long Distance _____ Telephone Booth _____

VOICE CHARACTERISTICS

Loud Soft
 High Deep
 Pitch Pleasant
 Raspy
 Intoxicated Other

ACCENT

Local Not
 Foreign Local
 Race Region

SPEECH

Fast Slow
 Distinct
 Stutter Distorted
 Slurred Nasal
 Other

MANNER

Calm Angry
 Rational
 Irrational
 Coherent
 Incoherent
 Deliberate
 Emotional
 Righteous
 Laughing

LANGUAGE

Good
 Excellent Poor
 Fair
 Foul Other

BACKGROUND NOISES

Factory Trains
 Animals
 Machines Quiet
 Music Voices
 Office Airplanes
 Party
 Machines
 Street Atmosphere
 Traffic

BOMB FACTS

PRETEND DIFFICULTY HEARING - KEEP CALLER TALKING - IF CALLER SEEMS AGREEABLE TO FURTHER CONVERSATION, ASK QUESTIONS LIKE:

When will it go off? Certain Hour Time Remaining _____

Where is it located? Building _____ Area _____

What kind of bomb? _____

What kind of package? _____

How do you know so much about the bomb? _____

What is your name and address? _____

If building is occupied, inform caller that detonation could cause injury or death.

Activate malicious call trace: Hang up phone and do not answer another line.

Call Police Emergency at 919 and relay information about call.

Did the caller appear familiar with plant or building (by his/her description of the bomb location)? Write out the message in its entirety and any other comments on a separate sheet of paper and attach to this checklist.

Notify your supervisor immediately.

SEVERE WEATHER AND NATURAL DISASTERS

Tornado:

- When a warning is issued by sirens or other means, seek inside shelter. Consider the following:
 - Small interior rooms on the lowest floor and without windows,
 - Hallways on the lowest floor away from doors and windows, and
 - Rooms constructed with reinforced concrete, brick, or block with no windows.
- Stay away from outside walls and windows.
- Use arms to protect head and neck.
- Remain sheltered until the tornado threat is announced to be over.

Flood/Storm Surge:

If indoors:

- Be ready to evacuate as directed by the Emergency Coordinator and/or the designated official.
- Follow the recommended primary or secondary evacuation routes.

If outdoors:

- Climb to high ground and stay there.
- Avoid walking or driving through flood water.

Hurricane:

- The nature of a hurricane provides for more warning than other natural and weather disasters. A hurricane watch is issued when a hurricane becomes a threat to a coastal area. A hurricane warning is issued when hurricane winds of 74 mph or higher, or a combination of dangerously high water and rough seas, are expected in the area within 24 hours.

Once a hurricane watch has been issued:

- Stay calm and await instructions from the Emergency Coordinator or the designated official.
- Moor any boats securely or move to a safe place if time allows.
- Continue to monitor local TV and radio stations for instructions.
- Move early out of low-lying areas or from the coast, at the request of officials.
- If you are on high ground, away from the coast and plan to stay, secure the building, moving all loose items indoors and boarding up windows and openings.
- Collect drinking water in appropriate containers.

Once a hurricane warning has been issued:

- Be ready to evacuate as directed by the Emergency Coordinator and/or the designated official.
- Leave areas that might be affected by storm tide or stream flooding.

During a hurricane:

- Remain indoors and consider the following:
 - Small interior rooms on the lowest floor and without windows,
 - Hallways on the lowest floor away from doors and windows, and

- Rooms constructed with reinforced concrete, brick, or block with no windows.

CRITICAL OPERATIONS

During some emergency situations, it will be necessary for some specially assigned personnel to remain at the work areas to perform critical operations.

Assignments:

Work Area	Name	Job Title	Description of Assignment

- Personnel involved in critical operations may remain on the site upon the permission of the site designated official or Emergency Coordinator.
- In the case of emergency will not permit any of the personnel to remain at the facility, the designated official or other assigned personnel shall notify the appropriate offices to initiate backups. This information can be obtained from the Emergency Evacuation Procedures included in the EMP document.

The following offices should be contacted:

Name/Location: Harbour Islend – Eleuthera Bahamas
 Telephone Number: 242-3332275

Name/Location: Michael Johnson – Site Manager (Harbour Island)
 Telephone Number: 242- 3597212

TRAINING

The following personnel have been trained to ensure a safe and orderly emergency evacuation of other employees:

Facility:

Name	Title	Responsibility	Date



Hurricane Policy

In light of the hurricanes which caused major problems to our sites in the Bahamas. Bahamas Marine Construction has produced this policy. This policy should apply to all sites.

Contents

1. Hurricane Classification
2. Hurricane Tracking
3. Key Decisions
4. Preparation
5. Return to work

Hurricane Classification

Saffir Simpson Hurricane Intensity Scale

Category One - A Minimal Hurricane

Winds: 74-95 mph, 64-83 kts, 119-153 km/h Minimum surface pressure: higher than 980 mbar, Storm surge: 3-5 ft, 1.0-1.7 m

Damage primarily to shrubbery, trees, foliage, and unanchored homes. No real damage to other structures. Some damage to poorly constructed signs. Low-lying coastal roads inundated, minor pier damage, some small craft in exposed anchorage torn from moorings. Example: Hurricane Jerry (1989)

Category Two - A Moderate Hurricane

Winds: 96-110 mph, 84-96 kts, 154-177 km/h Minimum surface pressure: Range 979-965 mbar, Storm surge: 6-8 ft, 1.8-2.6 m

Considerable damage to shrubbery and tree foliage; some trees blown down. Major damage to exposed mobile homes. Extensive damage to poorly constructed signs. Some damage to roofing materials of buildings; some window and door damage. No major damage to buildings. Coast roads and low-lying escape routes inland cut by rising water 2 to 4 hours before arrival of hurricane centre. Considerable damage to piers. Marinas flooded. Small craft in unprotected anchorages torn from moorings. Evacuation of some shoreline residences and low-lying areas required. Example: Hurricane Bob (1991)

Category Three - An Extensive Hurricane

Winds: 111-130 mph, 97-113 kts, 178-209 km/h Minimum surface pressure: 964-945 mbar, Storm surge: 9-12 ft, 2.7-3.8 m

Foliage torn from trees; large trees blown down. Practically all poorly constructed signs blown down. Some damage to roofing materials of buildings; some wind and door damage. Some structural damage to small buildings. Mobile homes destroyed. Serious flooding at the coast and many smaller structures near coast destroyed; larger structures near coast damaged by battering waves and floating debris. Low-lying escape routes inland cut by rising water 3 to 5 hours before hurricane centre arrives. Flat terrain 5 feet or less above sea level flooded inland 8 miles or more. Evacuation of low-lying residences within several blocks of shoreline possibly required. Example: Hurricane Gloria (1985)

Category Four - An Extreme Hurricane

Winds 131-155 mph, 114-135 kts, 210-249 km/h Minimum surface pressure: 944-920 mbar, Storm surge: 13-18 ft, 3.9-5.6 m

Shrubs and trees blown down; all signs down. Extensive damage to roofing materials, windows and doors. Complete failures of roofs on many small residences. Complete destruction of mobile homes. Flat terrain 10 feet or less above sea level flooded inland as far as 6 miles. Major damage to lower floors of structures near shore due to flooding and battering by waves and floating debris. Low-lying escape routes inland cut by rising water 3 to 5 hours before hurricane centre arrives. Major erosion of beaches. Massive evacuation of all residences within 500 yards of shore possibly required, and of single story residences within 2 miles of shore. Example: Hurricane Andrew (1992)

Category Five - A Catastrophic Hurricane

Winds: greater than 155 mph, 135 kts, 249 km/h Minimum surface pressure: lower than 920 mbar, Storm surge: higher than 18 ft, 5.6 m

Shrubs and trees blown down; considerable damage to roofs of buildings; all signs down. Very severe and extensive damage to windows and doors. Complete failure of roofs on many residences and industrial buildings. Extensive shattering of glass in windows and doors. Some complete building failures. Small buildings overturned or blown away. Complete destruction of mobile homes. Major damage to lower floors of all structures less than 15 feet above sea level within 500 yards of shore. Low-lying escape routes inland cut by rising water 3 to 5 hours before hurricane centre arrives. Massive evacuation of residential areas on low ground within 5 to 10 miles of shore possibly required. Example: Hurricane Camille (1969)

Hurricane Tracking

During Hurricane season tracking and checking should be carried out at various times every day. There is a vast amount of information on hurricane tracking available on the internet and on local television or radio.

Some good sources on the internet are:

1. www.weatherchannel.com
2. www.caribwx.com
3. www.kronor.com
4. www.stormcarib.com/guide.htm
5. www.noaa.com

Attached in "Appendix I" is a tracking chart which can be used to plot the advance of hurricanes.

Key Decisions

Once it has been ascertained that a hurricane strike is imminent.

- It is imperative that the senior site agent should be briefed in the decision making of the removal of all plant & equipment to safe areas.
- All employees should be trained in these procedures so that no time is wasted when the key decisions are implemented. Each site should have a designated person responsible for these operations.

Habour Island Marina Site Preparation

The following tasks need to be carried out to the site to make the site safe and secure. These tasks need to be started minimum of 2 days before the hurricane is due.

- All equipment and materials brought to a safe area (ideally the site compound or yard) that has no risk of flood and be parked together with brakes on. Trucks should be filled with aggregate to weigh them down.
- Window shutters should be placed if they are available if not plywood placed on the windows.
- Computer data backed up and stored in a safe secure area.
- Electric supplies should be disconnected.
- All confidential and essential records held on the site should be and kept in a secure and watertight place off the ground.
- All Computers and electrical goods stored likewise.
- Any portable offices tied down.
- Any portable toilets removed by provider or tied down.
- Some ventilation should be left in offices to avoid differential pressures.
- Any loose materials in the area gathered up and stored.
- Any trees likely to damage offices cut down or trimmed.
- Asphalt and concrete plants should have their bins filled and in asphalt plants, the hot storage should be filled with dry stone. Bitumen heaters should be turned off. All gantries, masts and any loose parts should be taken down.
- All Turbidity curtains removed.
- All plant and vehicles should be left fueled and fuel supplies should not be let rundown as there can be shortages in the aftermath of hurricanes.
- All employees should be allowed adequate time to return home to make the necessary arrangements to ensure the safety of their families and homes.

Return to work

Once the all-clear has been given and we are in a position to return to work, the works areas need to be checked by the Project Manager and Site Supervisor to ensure they are safe. The following things need to be examined.

- Structural integrity of site offices, welfare facilities, and accommodations
- Check off all services to ensure that the electrical supplies are still safe.
- All equipment and materials need to be checked to ensure that it is still in safe working order.
- Sanitation facilities need to be checked or replaced.
- A roll call of all personnel
- Check of works carried out

CONSTRUCTION SITE SEWER MANAGEMENT PLAN

During construction, it is very important to manage and control domestic sewage and wastewater. This is very important for human health and the environment. The management and planning of the domestic and wastewater from human and other waste during construction shall be managed by the 4M project management team, and activities recorded and logged by the project's EM. This Management Plan meets the local standards that have been put in place to regulate all domestic and wastewater activities, and disposal, for the island of Eleuthera and Harbour Island.

The benefits of having an On-site Sewage Management plan will assist with:

- Better management and disposal of human waste during construction management;
- Management of local wastewater from general human use and disposal
- Help to control the spread or prevention of bacteria and disease.

PURPOSE

The purpose of the On-site Sewage Management Plan is to:

- Guide the developer towards sustainable on-site management of domestic sewage and effluent water.
- Protect and enhance the quality of public health and the environment, and other adjacent properties from any spread of disease or bacteria
- Prevent contamination of soil, substrate and groundwater
- Keep records of Sewer management and control, and maintain records for public health officials

OBJECTIVES

The On-site Sewage Management systems shall be selected, area sited operated and maintained to ensure the following objectives are met:

- **Reduction of public health risk** - sewage contains bacteria, viruses, parasites and other disease-causing organisms. Contact with effluent should be minimized or eliminated.
- **Protection of surface water** - surface waters are not contaminated by any flow from treatment systems and land application areas (including effluent, rainfall run-off and contaminated groundwater flow).
- **Protection of groundwater**- groundwater will not be contaminated by any flow from either the treatment systems or land application areas.
- **Protection of land and vegetation** - land is not contaminated by any flow from treatment systems, effluent, rainfall run-off or removed tank solids.

HANDLING AND DISPOSAL OF WASTE

- A local sewer contractor from the main land Eleuthera has been contracted to place portable toilets onsite for construction workers, that can handle both liquid and solid domestic human waste.
- Once the portable toilets are full the contractor shall be notified, and will then return to extract the waste with a vacuum sealed tank sewer disposal truck.
- The truck will then be placed on a barge, where it shall be transported to the mainland, to make its journey onward to North Eleuthera.
- At North Eleuthera, the DEHS has designated a landfill disposal site for domestic human waste. The disposal truck shall dispose of all human domestic waste, and make a return journey when notified by the site project superintendent.

These measure meet the local government standards, and are regulated by the DEHS.



Spill Prevention & Response Plan

HARBOUR ISLAND MARINA PROJECT

The following Spill Prevention and Response measures will be implemented to prevent or mitigate escalation in the event of a possible Spill.

SPILL PREVENTION MEASURES

The following proactive measures will be adopted so as to prevent the likelihood of spill event:

- Training of Bahamas Marine Construction Staff and contractors regarding proper methods for transporting, transferring and handling substances that have the potential impact to human health or the environment.
- Preventative program including inspection and maintenance schedules to confirm and maintain the mechanical integrity and operability of equipment.
- Implementation of Standard Operation Procedures (SOPs) for handling materials including refueling vehicles, the use of diesel as oil blankets, the use of diesel tanks, the use and handling of processing chemicals, and managing secondary containment areas.
- Fuel will be purchased locally and immediately transferred to vehicles on site using a fuel pump. There are no current plans to have fuel stored on site during the marina construction phase.
- Provision of secondary containment, drip trays or other overflow and drop containment measures, for hazardous materials containers at connection points or other possible overflow points. Identification and provision of all equipment necessary to handle, transfer or transport materials properly.
- Use of transfer equipment that is compatible with and suitable for the characteristics of the materials transferred and designed to ensure safe transfer.
- Use of dripless hose connections for vehicle tank and fixed connections with storage tanks.
- Review of all potential pollutants characteristics prior to introduction to site and establishment of proper storage, handling and transportation procedures and spill risk analysis.
- Material Safety Data Sheets (MSDS) for all contaminants on-site will be readily available. These will include human health effects of chemicals handled and will be

included in the required chemical environmental and safety training for all employees handling or otherwise exposed to the contaminants. All appropriate personal protective equipment, handling and response procedures will also be identified in the MSDS or otherwise recommended by the suppliers/manufacturers and will be followed by the Project staff.

- Bulk transfers of chemicals during delivery will be observed by BMC personnel to identify preliminary hazard analysis methods.
- SOPs for chemical transportation, unloading, transfer, storage if required, handling, use and disposal shall be developed, kept current, effectively implemented.

SPILL CONTROL AND COUNTERMEASURES

The following spill control and countermeasures will be followed in the event of a spill incident:

- Maintenance of updated emergency contact information list at all spill response kits locations.
- Maintenance of spill route maps (perceived overland flow path [flow gradient] and likely contamination point [i.e. surface water features, potable boreholes etc.] of a given contaminant substance) at potential spill locations.
- Document availability of all spill response equipment that is capable of handling a large spill.
- Document availability of specific personal protective equipment and the necessary training needed to respond to different potential spills.
- Maintenance of spill response kits on all Project fuel and lubrication sites and vehicles.
- Maintenance of spill response guidelines at all spill response kit locations.
- Maintenance of an updated table of all contaminants on-site and recommended spill response procedures.
- Development, implementation and regular training and testing of a facility-wide Spill Response Plan.

-
- First-aid trained personnel on site.
 - All spills will be reported to appropriate management personnel.

SPILL RESPONSE PROCEDURE & COMMUNICATIONS

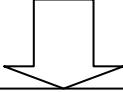
The Spill Response Procedure describes what to do when you see a spillage occur, as seen on the next page.


The Project Manager is responsible that Emergency arrangements are made and communication lines are established with relevant agencies and authorities, such as:

- Harbour Island, Ministry of Health Clinic tele: (242) 333-2227;
- Chris Goslin, Governor's Harbour ambulance service (emergencies) tele: (242) 332-3178 or (242) 557-7006 (cell)
- Police tele: (242) 333-2111;
- Fire-brigade;
- Air Ambulance;
- Other relevant local authorities; and
- Sub-Contractor's staff;

The Project Manager is to ensure that employees on the project are aware of the emergency telephone numbers, addresses, and response procedures. Furthermore he ensures, either via the local agent or direct, that BEST Commission and the local authorities are made aware of the existence of the project. **ALL** spills are to be reported to the BEST Commission.

WHEN YOU SEE A SPILLAGE OCCUR

- 
- 1) Check
 - a. type of spillage (fluid / solid)
 - b. estimate quantity
 - c. spillage continues (If Yes take action to stop it / If No proceed)
 - d. source of spillage
 - e. danger of explosion (If Yes ask for assistance / If No proceed)
 - f. danger of fire (if Yes ask for assistance / if No proceed)
 - 2) Ask for assistance
 - a. when possible start spillage recovery
 - 3) Inform Project Manager, Project Environmental Manager



Superintendent/Foreman
Minor spillage: can be treated with available spillage recovery set
Major spillage: assistance is required

MINOR SPILLAGE
Superintendent or Foreman:
1. To stop and/or take over activities
2. To start spillage recovery

Superintendent or Foreman:
Log on daily report

- a. type of spillage
- b. estimated quantity
- c. reason of recovery
- d. cause of spillage
- e. measures (to be) taken to avoid reoccurrence

1. Inform Project Manager within **24hrs**
(Should be address immediately and remediation within 12hrs)

MAJOR SPILLAGE
Superintendent or Foreman:

1. Check Location-**immediately**
 - a. Ensure safety
2. Check Spillage-**immediately**
 - a. type of spillage
 - b. estimated quantity
 - c. spillage continues
 - d. source of spillage
3. Instruct personnel-**immediately**
 - a. To stop and/or take over activities
 - b. To start spillage recovery
4. Inform Project manager, Environmental Manager-**within 1hr**
5. Tactic Meeting with key personnel

Project Manager or Project Environmental Manager:

1. **Immediately** determine what kind of assistance is required
2. Inform ENGINEER **within 1hr of notification**
3. ENGINEER to inform Employer **within 1 hr of notification**
4. Request assistance from 3rd Parties **within 1 hr**
5. Inform DEHS & BEST Commission-**verbally in 1hr, written within 48hrs**

EMERGENCY RESPONSE EQUIPMENT

In the unlikely eventuality there is a spill, on the site there will be Environmental Emergency Response kits.

These spill kits will consist of the following listed materials (or similar) (See Appendix 1: Spill Kit Specifications):

- Absorption pads (43 x 48 cm)
- Absorption rolls (96 cm x 40 m)
- Spill drum for contaminated materials
- Absorption socks (7.6 cm x 1.2 m)
- Sack of absorption grit
- Plastic foil

Once an eventual spill has been cleaned-up all contaminated materials will be packed in plastic sacks and / or foil and placed in the disposal drum. This drum will be transported to an eventual waste recycling / treatment location.

EMERGENCY PREPAREDNESS

The Contractor is anticipating preparation in general for the following scenarios:

- Serious personal injury/fatality;
- Road traffic accident;
- Fire or explosion;
- Spillage;
- Severe weather conditions (Hurricanes, Tropical Storms, Tornadoes);
- Evacuation of work site; and
- Damage to Third party Property.

Priority for action of each scenario is as follows:

1. Saving lives and people safety;
2. Avoid or limiting environmental damage;
3. Control of situation;

-
4. Establishing site safety; and
 5. Salvage and repair.

SPILL REPORTING PROTOCOL

Step 1: All personnel on the work site and assigned to the project will be responsible for implementation with the Project Manager and Project Environmental Manager providing coordination of efforts. A report will be generated by the Contractor, and disseminated to relevant parties including BEST Commission.

Emergency Contacts:

Sanjeev Gupta (Contractor)
Project Manager
sa.gupta@isdbahamas.com
(242) 424-8123

Janeen Bullard (Contractor)
Environmental Manager
jmbullard2109@gmail.com
(242) 357-9262

Rochelle Newbold
Director
BEST Commission
(242) 322-4546

Jolton Johnson (In case of Emergency and major marine spills)
Sr. Deputy Administrator
Eleuthera Administrator's Office
(242) 333-2275

Step 2: When contact is made with the above individuals, report the following information:

- Location of Spill
- Source of Spill
- Time of Spill
- Volume of Spill
- Potential Hazard of Spill
- Has the spill been contained?
- Has the spill material reached a body of water?
- Responsible party's name, address, telephone, official to contact, etc.
- Weather conditions at the spill site

Step 3: If the spill report is not made by the Harbour Island Marina and Resort Manager, the

reporter will communicate the above information to him/her as soon as possible. From that point forward, the Project Engineer will coordinate all further activities in response to spill control.

SPILL CONTAINMENT AND CLEANUP

Upon discovering a spill, every effort will be made to contain the spill and stop it at its source (when this can be done without danger to the health and safety of those involved). Containment may involve blocking storm water drains, building berms/dikes, deploying booms/absorbent materials and other barriers to prevent the spread of the pollutant, and other measures to minimize health and environmental damage.

Clean-up and removal of spill material and spill contaminated materials will be undertaken after consultation with appropriate governmental agencies to determine the best method(s) for removal. The Developer will contract with (or consult) a private company to conduct any clean-up of spills at Harbour Island Marina and Resort. Disposal of the pollutant and/or pollutant contaminated material will be in a manner and location as approved by DEHS.

Appendix 1: Spill Kit Specifications

SpillTech RSPKHZ-55 HazMat 55-Gallon Kit Refill



Availability: Usually ships in 2 to 5 days

Item #: T9AB2094051

Price: \$202.95

Product Information

SpillTech RSPKHZ-55 HazMat 55-Gallon Kit Refill

Kit Includes: 130 Pieces

- 100 – 15" x 19" Pads
- 10 – 3" x 4' Socks
- 5 – 18" x 18" Pillows
- 2 – Pairs Nitrile Gloves
- 2 – Pairs Safety Goggles
- 1 – Emergency Guide Book
- 4 – Disposal Bags & Ties
- 6 – Tamper Proof Seals

Product Specifications

LENGTH INCHES	24
WIDTH INCHES	22
HEIGHT INCHES	18.25
CAPACITY/ABSORPTION GALLONS	48.9
COLOR FINISH	Yellow
CONSTRUCTION	Various
GALLON KIT	55
LIMITED WARRANTY	1 Year

MANUFACTURERS PART NUMBER	RSPKHZ-55
PACKAGE QUANTITY	1
PADS	100
PILLOWS	5
SOCKS	10
KIT TYPE	HazMat Kit Refill
BRAND	SpillTech
DESCRIPTION	HazMat Kit Refill
WEIGHT LBS	35.89

General Sales

For product information or to place an order, please contact us at sales@globalindustrial.com, or 1-888-978-7759.

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For assistance regarding an order already placed or received, please contact us at 1-888-628-3466 or service@globalindustrial.com.

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Port Washington, NY 11050

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2505 Mill Center Parkway
Suite 100
Buford, GA 30518-3700



WASTE MANAGEMENT PLAN
HABOUR ISLAND MARINA

WASTE MANAGEMENT PLAN

SOLID WASTE MANAGEMENT

Waste materials shall be removed and disposed of at the Department of Environmental Health Services Landfill.

The following practices and procedures will be applied:

- Ensure that an adequate number of appropriate waste containers are available on site.
- All spill clean-up material (i.e. used sorbent pads) will be stored in lined containment drums and disposed of at an approved facility.
- Designate a safe area for temporary waste storage with adequate containment, secure and protected from weather until removal and disposal can be arranged.
- Remove all waste materials from the site as soon as possible.
- Any portable toilet(s) that are on-site should be secured to avoid being knocked over by heavy winds and vandalism. They must be adequately maintained on a regular basis. Toilets must be located more than 100ft from the edge of the open water. They will be rented and maintained by a local company
- If potentially contaminated soils or waters are encountered during the work, the Contractor will contact the Environmental Manager immediately. Contaminated soils or waters must be assessed by a qualified environmental consultant and disposed of off-site at a regulated facility.
- Waste from demolition will be recycled and reused in the surrounding community and excess material will be disposed of at the Landfill. Previous material such as lumber and pilings was sorted and collected by Harbour Island residents and only concrete slabs disposed of.

HAZARDOUS WASTE MANAGEMENT

All concrete work must be completed in a manner that ensures water quality standards are maintained. Runoff from uncured concrete, concrete wash water or other chemicals may be high in pH and are considered harmful to fish and aquatic life; therefore, there shall be no contact with open water through spillage, hosing off surfaces, rain, or cleaning of tools. Cement and other materials will be kept in a covered storage location to prevent the potential for mixing with water and substances being released into the environment. Any excess material shall be removed upon project completion and disposed of at DEHS Landfill. An equipment washing site will be bunded, lined to contain any concrete and chemicals and away from the water's edge. All accepted equipment washing locations must be cleaned up prior to demobilization.

APPENDIX D: FERTILIZATION / PESTICIDE MANAGEMENT PLAN AND VECTOR CONTROL MANAGEMENT

FERTILIZATION AND PESTICIDE MANAGEMENT PLAN

Safety Policy

Pests found on grass, trees, shrubs as a result of any landscape development or transport of native and exotic flora, can create significant problems in the natural environment. For this reason it is necessary to control such pests with a variety of pesticides, applied over a period of time. Similarly, it is important to care for the sub-surface in which all of these floras grow and thrive. In order to accomplish this there are some level of risks involved with the use of pesticides, herbicides and also fertilizers. The very chemicals pesticides that we use to remediate such pests can also create health risks to people, animals and the environment.

For this reason it is important to develop an integrated fertilizer and pesticide management plan to minimize such risks. In order to do this, horticulture professionals will have to manage the use application and use of such chemicals in order to adopt the Industry Best Management Practices for controlling undesirable pests and associated conditions. These measures will have to be adopted at all time to ensure safety and promote a controlled management approach for dealing with pests and the adverse impacts as a result of their infestation.

Pest Management

Pests can be a combination of living organisms, that can interfere with human, plants and the physical environment. They can be populated on a seasonal by various environmental factors such as wind, poor landscape maintenance, or seasonal diseases that can spread from region to region. In the most extreme cases species of plants and even ground covers can be totally wiped out if these conditions are not controlled

Environmental Manager

1. The Environmental Manager shall ensure that an effective and routine integrated pest control and fertilization program is implemented and carried out. The EM will ensure that any contractor involved in the execution of the integrated pest control program adheres to all safety, and Best management Practices at all times. The EM will also ensure that proper records are kept, and proper communication is promoted to alert all concerned parties prior to the scheduling and use of any chemicals, of fertilization of surface and sub-surface areas.

Integrated Pest Management Procedures

The procedures implemented will determine when to control pests, and whether to use mechanical, physical, chemical, cultural, or biological means. Prior to the application of any pest control measures a scouter or designated trained person will conduct inspections and gather information, on areas to be treated, and the level or degree of treatment needed. Using this approach allows specific areas to be identified, and to determine the level of application based on the level of infestation.

It will be the policy of the facility under the guidance of the EM to determine the type of chemical to be used, the quantity and the frequency be it monthly quarterly or bi-annually. Similarly, Best Management Practices must be used for the application of any fertilizers, and the time of application. Proper measures must be taken so as to avoid any run-off from fertilizers residuals, that can impact water streams and low lying areas that may affect animals or pet consumption. Through well informed media weather reports make planning more effective, so that such application are administered a few days prior to any inclement weather.

BEST MANAGEMENT PRACTICES FOR AN INTEGRATED FERTILIZATION AND PESTICIDE MANAGEMENT PLAN:

1. *Integrated Pest Management programs are designed prevent pest problems whenever possible. This is done through monitoring, regular inspections, high standards of sanitation and pest proofing measures, or modification of environmental conditions leading to pest problems.*
2. *4M Harbour and Marina will establish pest tolerance thresholds for common pests. These thresholds will serve as an indicator for pest population levels and the point at which control measures will be undertaken. Control measures will not be undertaken if pest damage or populations are below threshold levels. Threshold values will vary for each organism (e.g., the threshold may be higher for crickets than for venomous insects). Thresholds will not be set based on aesthetic criteria alone.*
3. *When pests do exceed tolerance thresholds, non-chemical pest control measures (e.g., sanitation, screening, physical barriers, vacuuming, mulching, irrigation, fertilization, manual weeding, insect nest removal, pest-resistant plant selection) will be practiced.*
4. *Pesticides will be used when appropriate, along with other management practices or when other pest prevention and non-chemical control measures have failed to reduce pests below tolerance thresholds. Cost or staffing considerations alone will not be adequate justification for the use of chemical control agents. When a pesticide must be used, the smallest amount of the reduced-risk product that will meet pest management goals will be used.*
5. *Pesticide Applications. The EM in conjunction with the 4M Management Office must approve pesticide applications in advance; antimicrobial agents and insecticide and rodenticide baits, because they pose less risk to human health, are exempt from approval Pesticide Applications.*
6. *Pesticide Use and Selection. To ensure the safety of students and staff, the management will use the following criteria to ensure that the least hazardous pesticide and/or the least hazardous method of control be utilized:*
 - a. *No use of any pesticide classified as highly acutely toxic. This includes Hazard Category I and II, signal words DANGER and WARNING.*
 - b. *listed as neuro) A pesticide will not be used if the facility does not have information on its ingredients, including inert ingredients.*

Source:

<http://www.brandon.ca/images/pdf/Parks/Integrated%20Pest%20Management%20Plan.pdf>

Record Keeping

Records of pesticide use shall be maintained on site to meet the requirements of the state regulatory agency and Facilities Management policy. Records must be current and accurate. These records shall be made available upon request to school staff and the general public during normal operating hours, and shall be kept for at least three years.

Facility Management will keep records of the following:

1. Current list of pesticides used, pesticide Material Safety Data Sheets (MSDSs), pesticide product labels, and available manufacturer information about inert ingredients;
2. Records of all pest control actions (location, purpose, and complete information on the pesticide as indicated in 1);
3. Information on the number of pests or other indicators of pest activity that can verify the need for action.

Vector Control Methodology

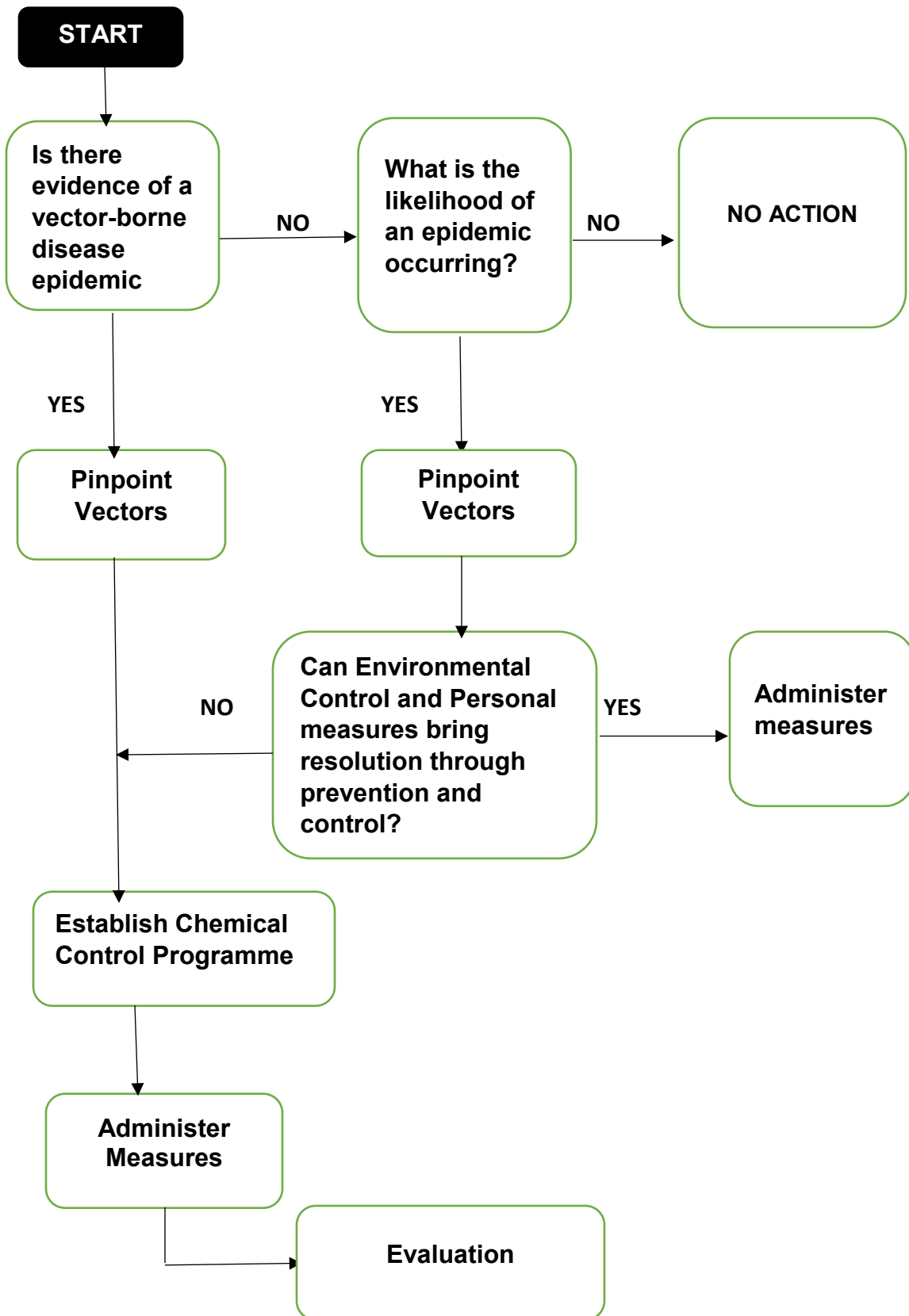
According to WHO and other health control agencies, disease vector is any living organism that transmits an infectious disease to humans (or in agriculture to animals and plants). A vector picks up the disease from an infected host or the environment then transfers it to a new host through a bite when feeding or by mechanical transmission such as defecating on the skin or from particles on the outside of the body.

The 4M Harbour Island Marina and Resort project seeks to promote Best Management Practices in environmental management by adhering to sustainable site practices which are environmentally sensitive towards waste management, nursery operations and pest management. The project will be utilizing a variety of resources and technologies where environmental management will be evaluated and documented. The implementation of Environmental Management plans will be the responsibility of the on-site project manager. The EMP has set up the procedures, regulations, policies and will monitor to confirm adherence, offer insights and corrective actions if required.

HARBOUR ISLAND MARINA AND RESORT PEST CONTROL CONSTRUCTION STATUS REPORT TABLE				
DATE:		STAFF:		
PEST CONTROL	Y	N	GPS	FIGURE AND CAPTION
1. Adherence to the Integrated Pest Management plan?				
2. Application schedule and quantities being followed?				
3. Proper chemical usage?				
4. Proper waste disposal- not exacerbating pests/rodents?				
5. Imported materials/vegetation checked for exotics?				
6. Lob lac scale (insect, See annotation below) found?				
STATUS REPORT				
CURRENT STATUS REPORT				
ISSUES TO FOLLOW UP ON				

Implementation of Vector Control Programme

Data flow Diagram



Process For Implementation

Limited to non-existence of maintenance of sanitary facilities after a natural disaster, conflicts or by the environment of makeshift homes in emergency situations create favorable conditions for the propagation of insects and rats.

Epidemics can occur in cases related to the transmission of vector-borne diseases to an effected population. Long-term control of vectors and diseases transmission are aided appropriately by environmental control measures combined with facilities for personal hygiene.

In the case of an active epidemic or about to occur, control measures are not appropriate enough for the needs of emergency short term action.

Obtaining a rapid and maximum control of vectors should be the essential approach in facing the threat of an epidemic.

The supplementation of long-term control measures and prevention of epidemic disease outbreaks maybe require a chemical measure.

Depending on upon which vectors need to be targeted, a chemical control measure programme is still the most appropriate and suitable, although chemical control measures should supplement any sanitary measures, in the case of an epidemic.

Relying only on Health statistics from the decision to implement vector control programme should not be the basis; such can be the case of a field/site supervisor awaiting for health statistics to indicate an epidemic situation, where the seriousness and urgency may have reached its peak and passed by the time the epidemic response activities have been initiated.

MEASURES FOR MOSQUITO CONTROL

Mosquito vector control methods

The aim of vector control is to interrupt or eliminate local transmission of diseases, reduce vulnerability to disease, and prevent secondary infections from introduced diseases so they do not create further outbreaks. It requires a very strong integrated management approach, along with the right technical personnel and equipment. For diseases such as malaria vector control methods can be very challenging, since each species of insect have their own distinct bionomics.

Integrated vector management

The WHO recommends an Integrated vector management (IVM) is a new approach to the control of vector-borne diseases that uses a rational decision-making process to optimize the use of resources for vector control.

IVM establishes partnerships across multiple and uses a range of interventions based on local knowledge about the vectors, diseases and disease determinants and encourages collaboration with the health services, other public services and local communities

The key elements of an IVM strategy are (WHO, 2012):

1. Advocacy, social mobilization and legislation: promotion and embedding of IVM principles in designing policies in all relevant agencies, organizations and civil society; establishment or strengthening of regulatory and legislative controls for public health; empowerment of communities.
2. Collaboration with health and other sectors: consider options for collaboration with public and private sectors; strengthen channels of communication among policy makers, vector-borne disease programme managers and other partners.
3. Integrated approach: ensure rational use of available resources by addressing several diseases, integrating non-chemical and chemical control methods and other disease control measures.
4. Evidence-based decision making: adapt strategies and interventions suitable for the local ecology, epidemiology and resources, guided by operational research and routine monitoring and evaluation.
5. Capacity building: provide the required material, financial and human resources at national and local level for an IVM strategy.

Below are Methods Used in Vector Control Management Strategies

1. Environmental management

This simply involves removing breeding opportunities for mosquitoes., such as open containers with stagnant water, and other areas where mosquitoes may find conducive for breeding and laying of larvae

2. Mechanical control

This involves for malaria prevention, sleep in bed nets impregnated with insecticide (LLINs); Drilling holes in containers, tyres, etc to drain water; and removal or safe storage of scrap.

3. Biological control

This method introduces agents to affect reproduction, growth and activity of vector insects or change the transmission dynamics of a disease in an environmentally safe way, including, biological larvicides: (formulations of bacteria), eg *Bacillus thuringiensis*, *Bacillus sphaericus*, as wettable powders for spraying, and granules or briquettes for manual dispersion; (Bellini et al, 2014).

4. Chemical control

This method involves the application of insecticides that is done as complementary action to physical and biological control methods, and only when there is no other option. larvicidal application:

REFERENCES:

Centers for Disease Control and Prevention. A–Z Index. (link)

CDC, Division of Vector Borne Diseases. (link accessed 7 Oct 2016)

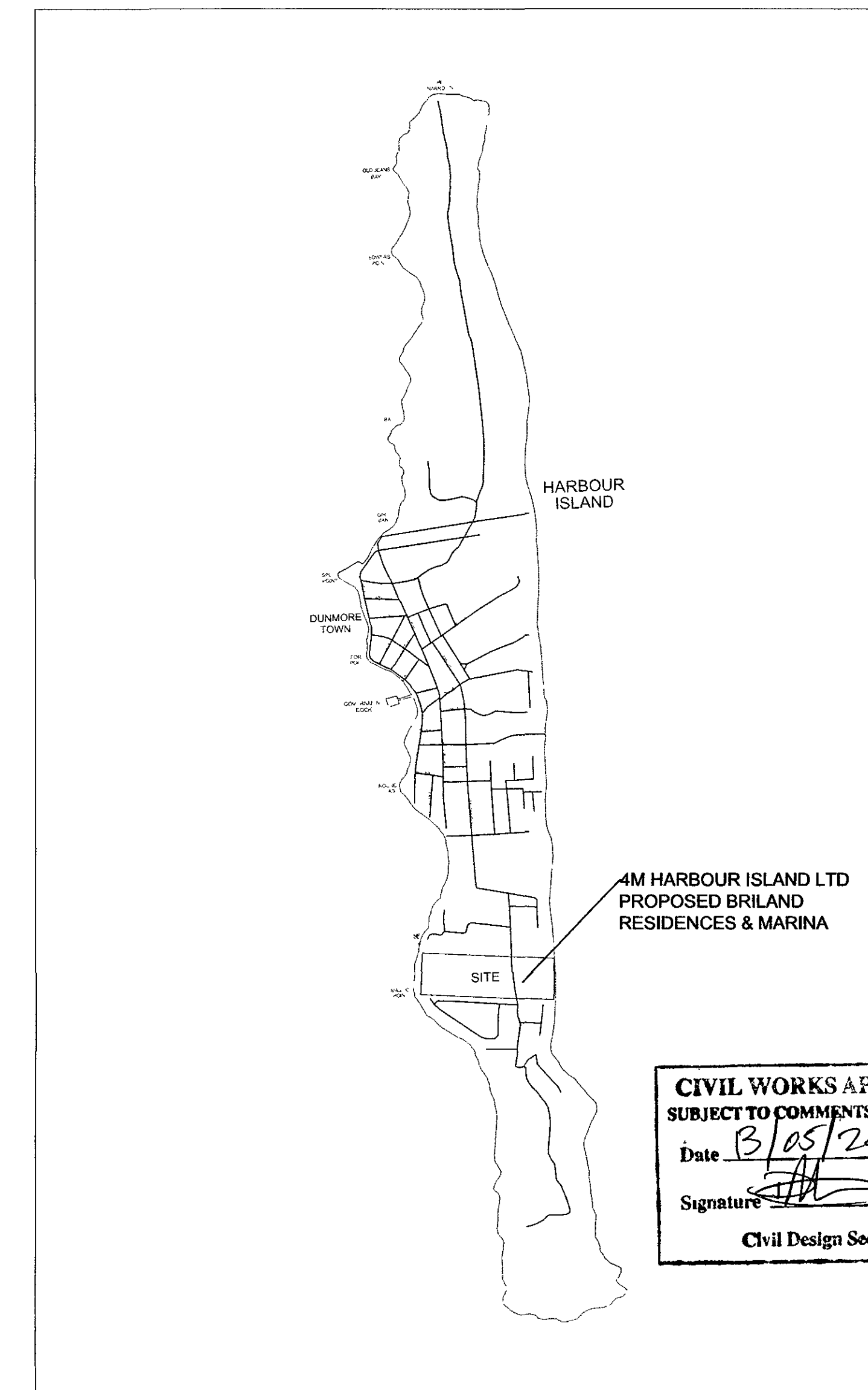
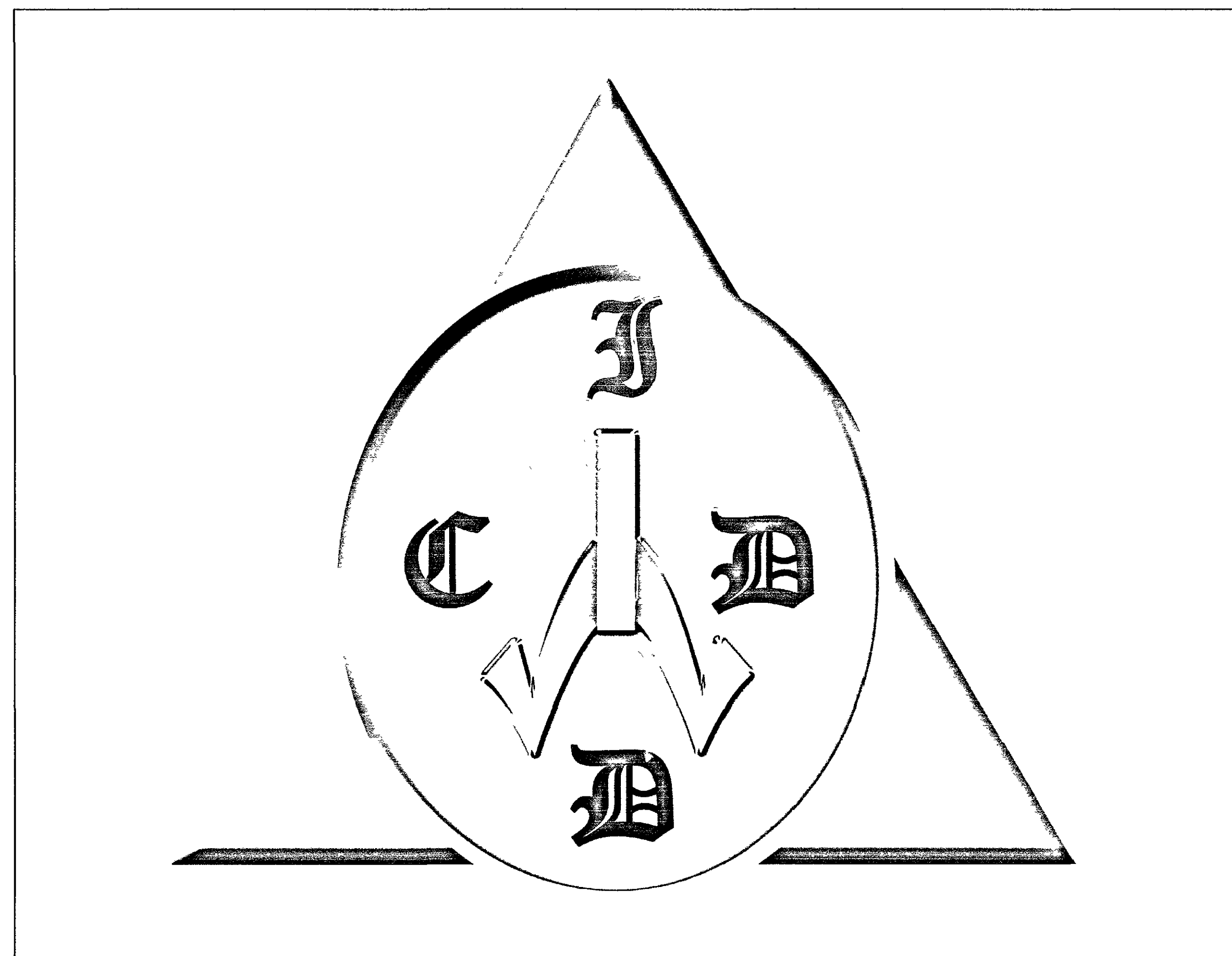
WHO. 2014. A global brief on vector-borne diseases. WHO, Geneva.

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APPENDIX E: STORMWATER, INFRASTRUCTURE, DRAINAGE AND ROADWAYS MANAGEMENT

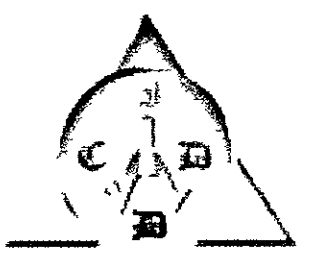
4M HARBOUR ISLAND LTD PROPOSED BRILAND RESIDENCES & MARINA CIVIL ROADS & DRAINAGE SET

CIVIL ROADS & DRAINAGE DRAWING INDEX	
A-00	COVER SHEET W/LOCATION PLAN
A-01	SURVEY & CONTOUR PLAN
A-02	ROAD LAYOUT SHEET
A-03	DRAINAGE PLAN
A-04	PROPOSED DEMOLITION PLAN
B-01	ROAD PROFILES - ROAD 1
B-02	ROAD PROFILES - ROAD 2
B-03	ROAD PROFILES - ROAD 3
B-04	ROAD PROFILES - ROAD 4 (1 OF 2)
B-05	ROAD PROFILES - ROAD 4 (2 OF 2)
B-06	ROAD PROFILES - ROAD 5
B-07	ROAD PROFILES - ROAD 6
B-08	ROAD PROFILES - ROAD 7
B-09	ROAD PROFILES - ROAD 8
B-10	ROAD PROFILES - ROADS 9, 10, 11
B-11	ROAD PROFILES - ROAD 12
B-12	ROAD PROFILES - ROAD 13
B-13	ROAD CROSS SECTIONS
B-14	UTILITY SECTIONS
B-15	ROAD DETAIL SHEET



CIVIL WORKS APPROVED
SUBJECT TO COMMENTS AS MARKED
Date 3/05/2019
Signature [Signature]
Civil Design Section



REVISIONS	NO	DESCRIPTION	DATE	BY	NO	DESCRIPTION	DATE	BY	ENGINEER OF RECORD	PREPARED FOR	DESIGNED BY	PROPOSED BRILAND RESIDENCES & MARINA	
		1	DESIGN DEVELOPMENT DRAWINGS	03/12/2019	CTI					 <p>ISLAND DIMENSIONS DEVELOPMENT COMPANY Farrington House, Gladstone Road P O Box EE-15036 Nassau, Bahamas Tel# (242)-341-6318/25 Fax# (242)-368-6312</p>	<p>MR MICHAEL WIENER 4M HARBOUR ISLAND LTD. HARBOUR ISLAND, BAHAMAS</p>	CTI	<p>COVER SHEET W/LOCATION PLAN</p>
									CTI			AF	

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NOTES
 REFERENCE plan by Caribbean Surveys Ltd dated
 Grid connection was made to Dept of Lands & Surveys
 Coordinates are UTM Grid (NAD 27)
 Survey monument set
 Survey monument found
 Concrete wall
 Chain link fence

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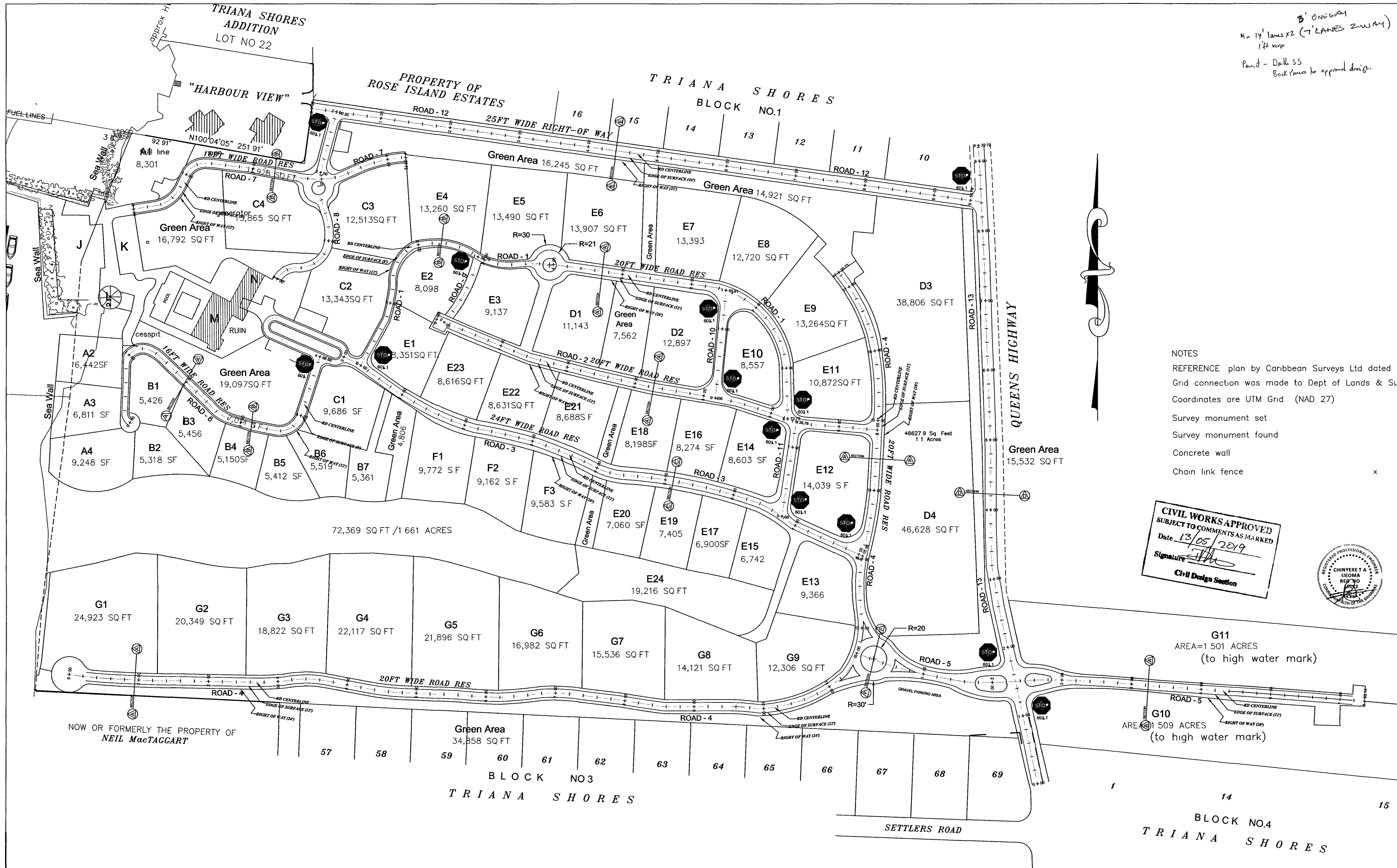
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NOW OR FORMERLY THE PROPERTY OF NEIL MacTAGGART	BLOCK NO.3 TRIANA SHORES	BLOCK NO.4 TRIANA SHORES
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PROPOSED BRILAND RESIDENCES & MARINA SURVEY & CONTOUR PLAN SCALE: 1:60	DRAWING NO A-01
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3' ONEWAY
 Min 14' lanes x 2 (-7' LANES 2 way)
 1/4" rise
 Paint - Doble SS
 Brick curbs to approval design.



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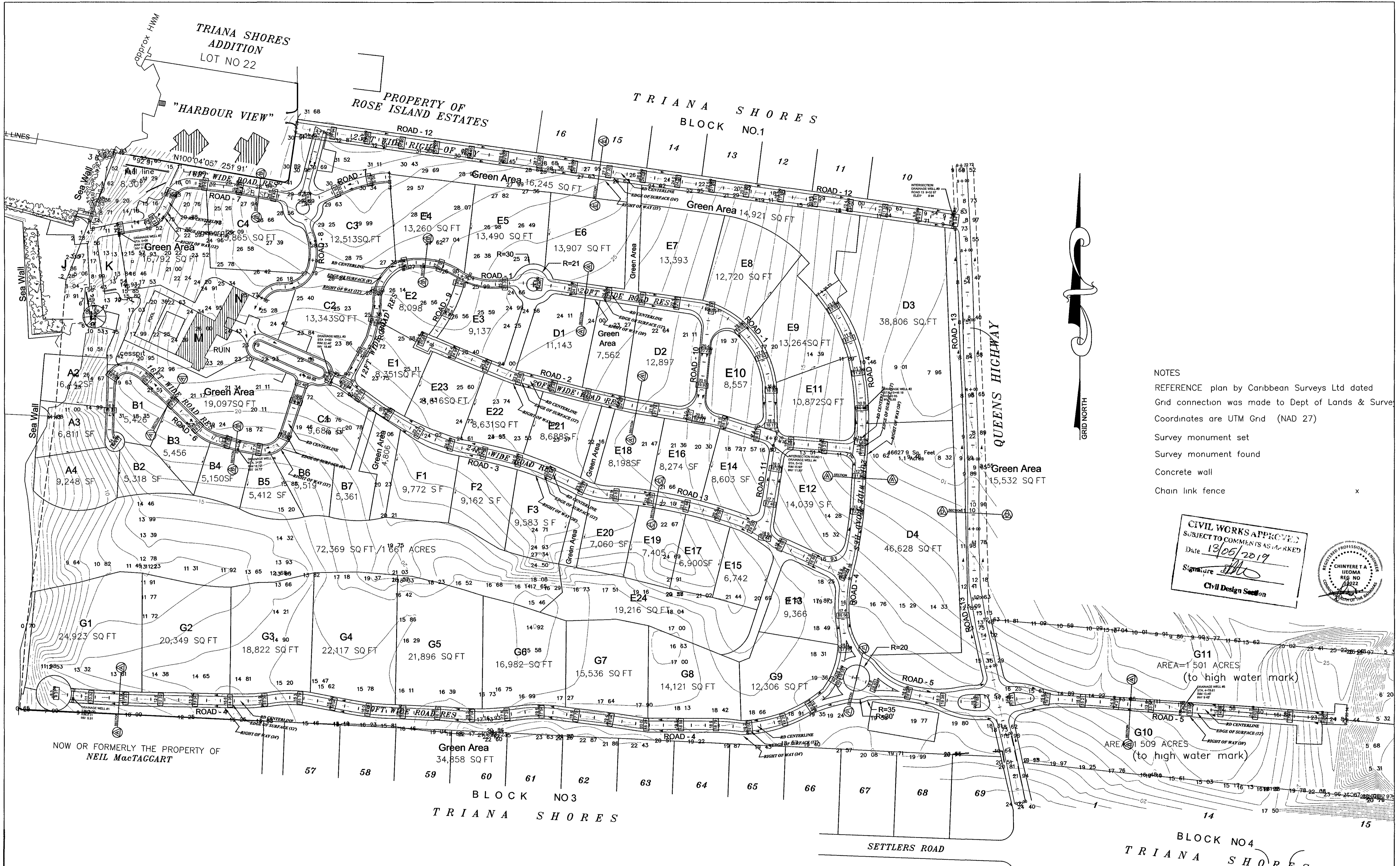
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ISLAND DIMENSIONS DEVELOPMENT COMPANY
 Farrington House, Gladstone Road
 P. O. Box EE-15036
 Nassau, Bahamas
 Tel# (242)-341-6318/25
 Fax# (242)-369-6312

PREPARED FOR
MR MICHAEL WIENER
4M HARBOUR ISLAND LTD.
HARBOUR ISLAND, BAHAMAS

DESIGNED BY CTI
 DRAWN BY CTI
 CHECKED BY
 PROJECT ENGR AF

PROPOSED BRILAND RESIDENCES & MARINA
ROAD LAYOUT SHEET
 SCALE: 1 : 60
 DRAWING NO **A-02**

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 Survey monument set
 Survey monument found
 Concrete wall
 Chain link fence

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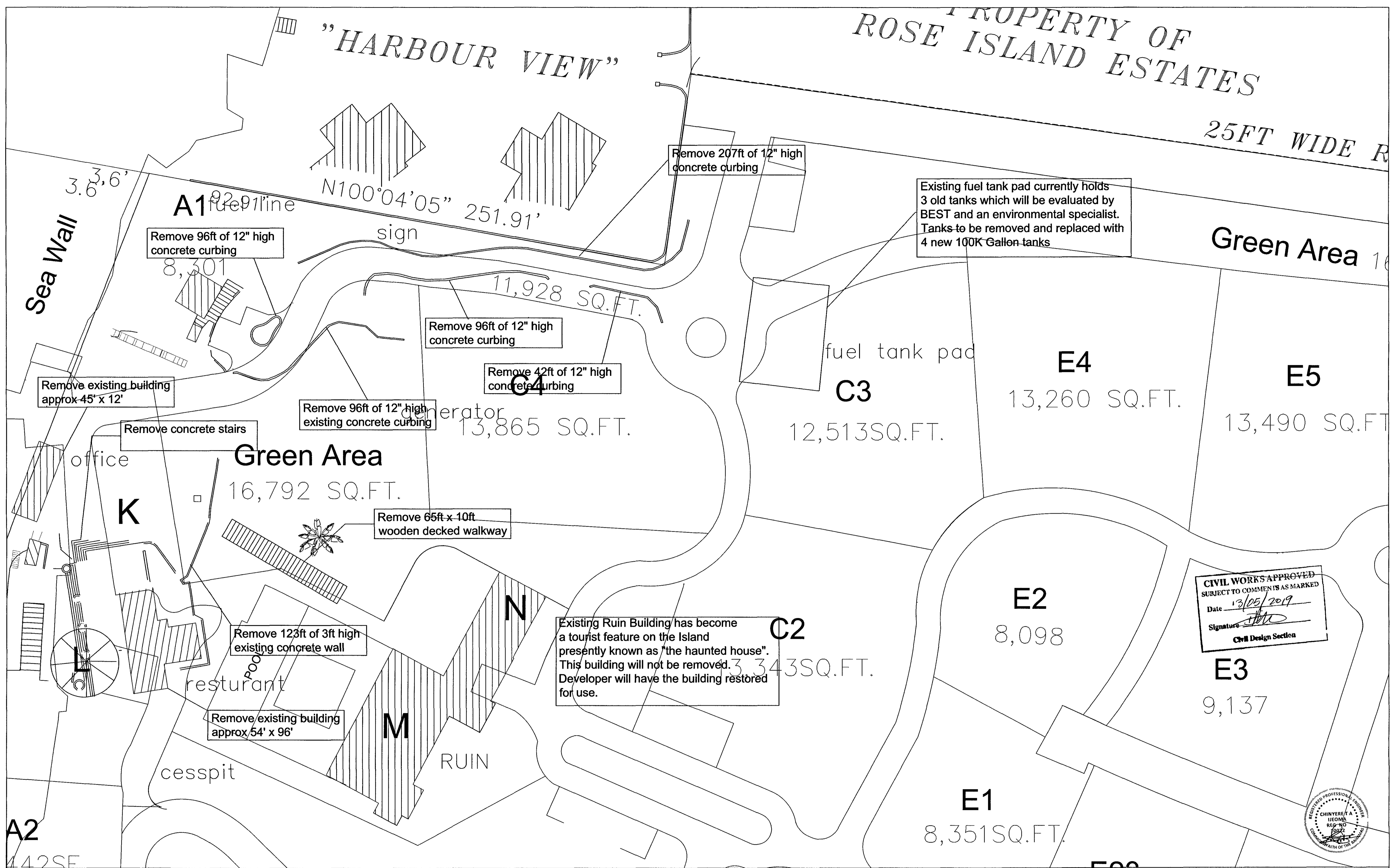
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PROPOSED BRILAND RESIDENCES & MARINA DRAINAGE PLAN SCALE: 1 : 60	DRAWING NO A-03
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PROPERTY OF
ROSE ISLAND ESTATES
25FT WIDE R

"HARBOUR VIEW"



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Date: 3/05/2019
Signature: [Signature]
Civil Design Section



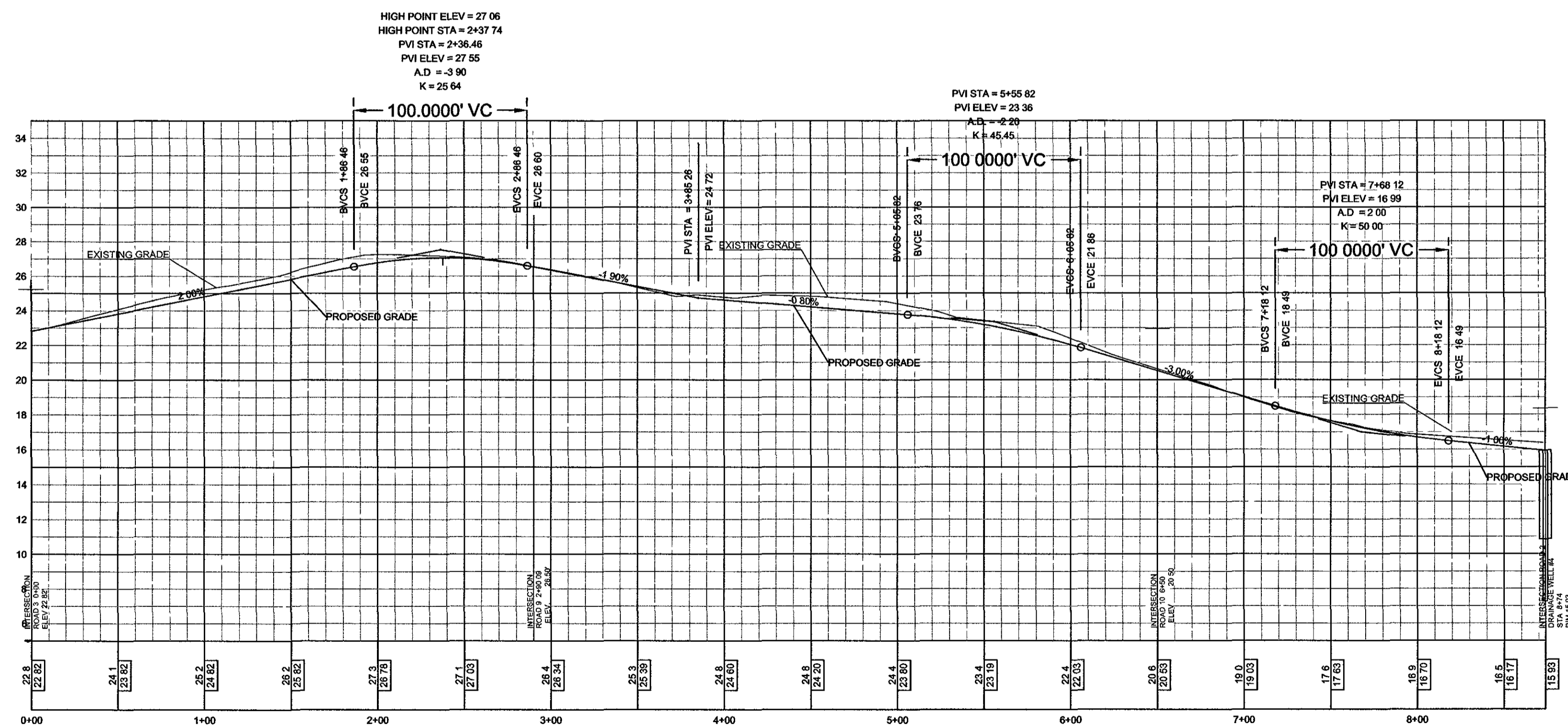
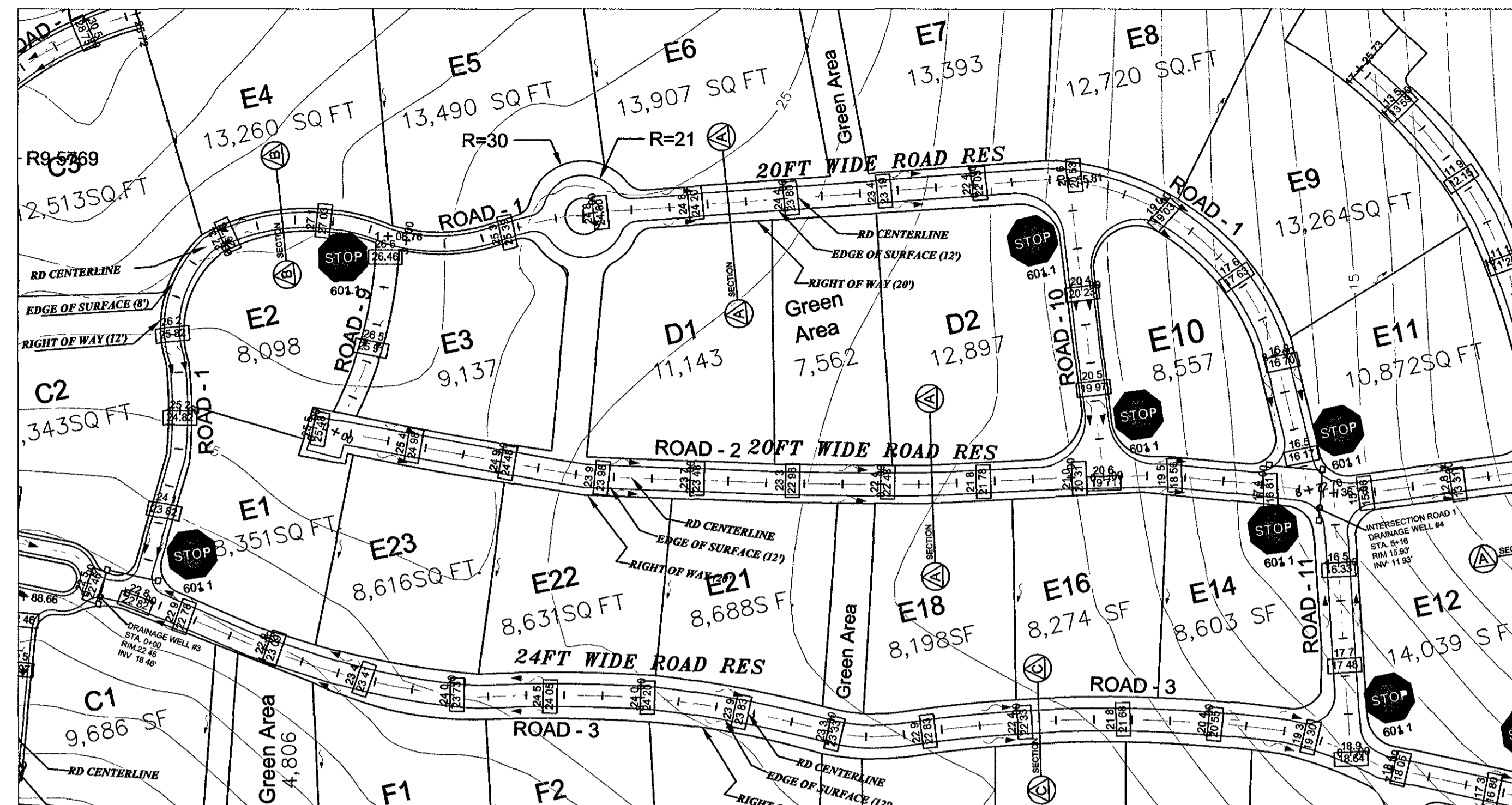
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 ISLAND DIMENSIONS DEVELOPMENT COMPANY
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P. O. Box EE-15036
Nassau, Bahamas
Tel# (242)-341-6318/25
Fax# (242)-368-6312

PREPARED FOR
MR MICHAEL WIENER
4M HARBOUR ISLAND LTD.
HARBOUR ISLAND, BAHAMAS

DESIGNED BY: CTI
DRAWN BY: CTI
CHECKED BY:
PROJECT ENGR: AF
PROPOSED BRILAND RESIDENCES & MARINA
DEMOLITION PLAN
SCALE: 1 : 20
DRAWING NO. **A-04**

IF SHEET IS LESS THAN 24" X 36" IT IS A REDUCED PRINT SCALE ACCORDINGLY




PROFILE - ROAD 1
 STA: 0+00 TO 8+73.97
 SCALE: V-1:5 H-1:50

CIVIL WORKS APPROVED
 SUBJECT TO COMMENTS AS MARK'PD
 Date 13/05/2019
 Signature [Signature]
 Civil Design Section



NO	DESCRIPTION	DATE	BY	NO	DESCRIPTION	DATE	BY
1	DESIGN DEVELOPMENT DRAWINGS	03/12/2019	CTI				

ENGINEER OF RECORD



ISLAND DIMENSIONS DEVELOPMENT COMPANY
 Farrington House, Gladstone Road
 P. O. Box EE-15036
 Nassau, Bahamas
 Tel# (242)-341-8318/25
 Fax# (242)-368-6312

PREPARED FOR

MR MICHAEL WIENER
4M HARBOUR ISLAND LTD.
HARBOUR ISLAND, BAHAMAS

DESIGNED BY	CTI
DRAWN BY	CTI
CHECKED BY	
PROJECT ENGR	AF

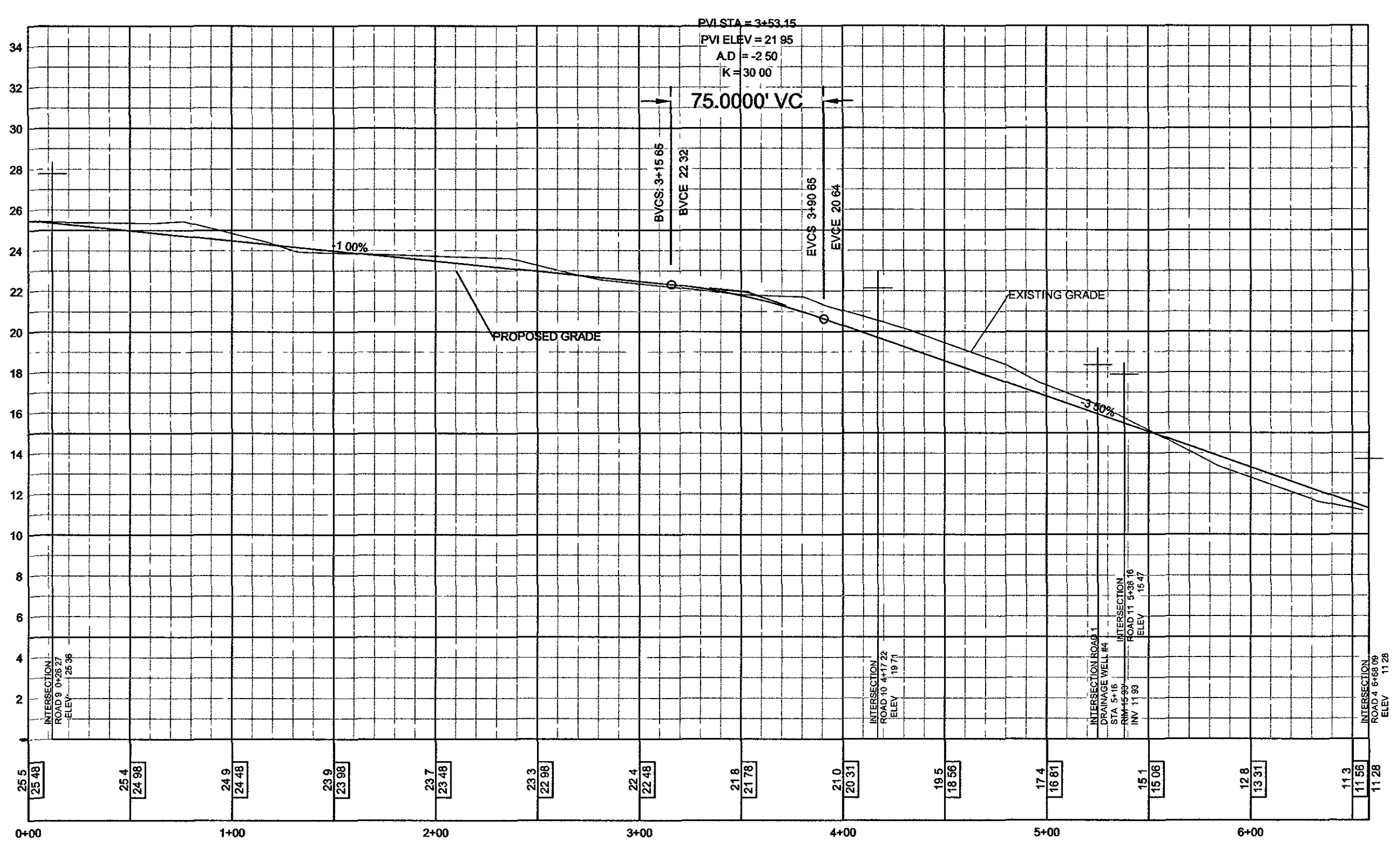
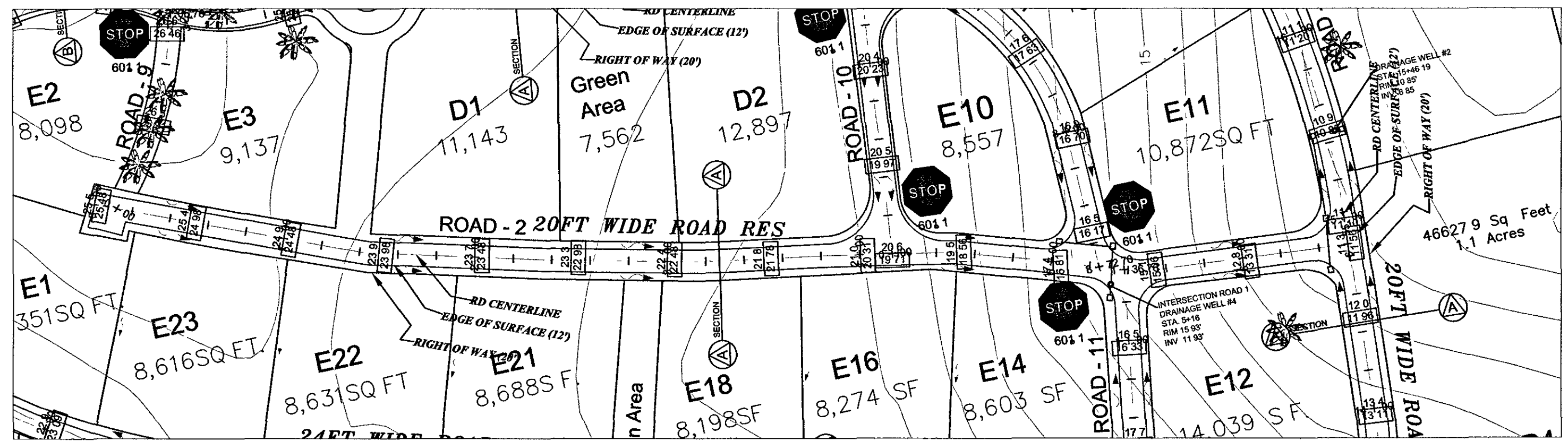
PROPOSED BRILAND RESIDENCES & MARINA

ROAD PROFILES - ROAD 1

SCALE: 1 : 50

DRAWING NO
B-01

IF SHEET IS LESS THAN 24" X 36" IT IS A REDUCED PRINT SCALE ACCORDINGLY



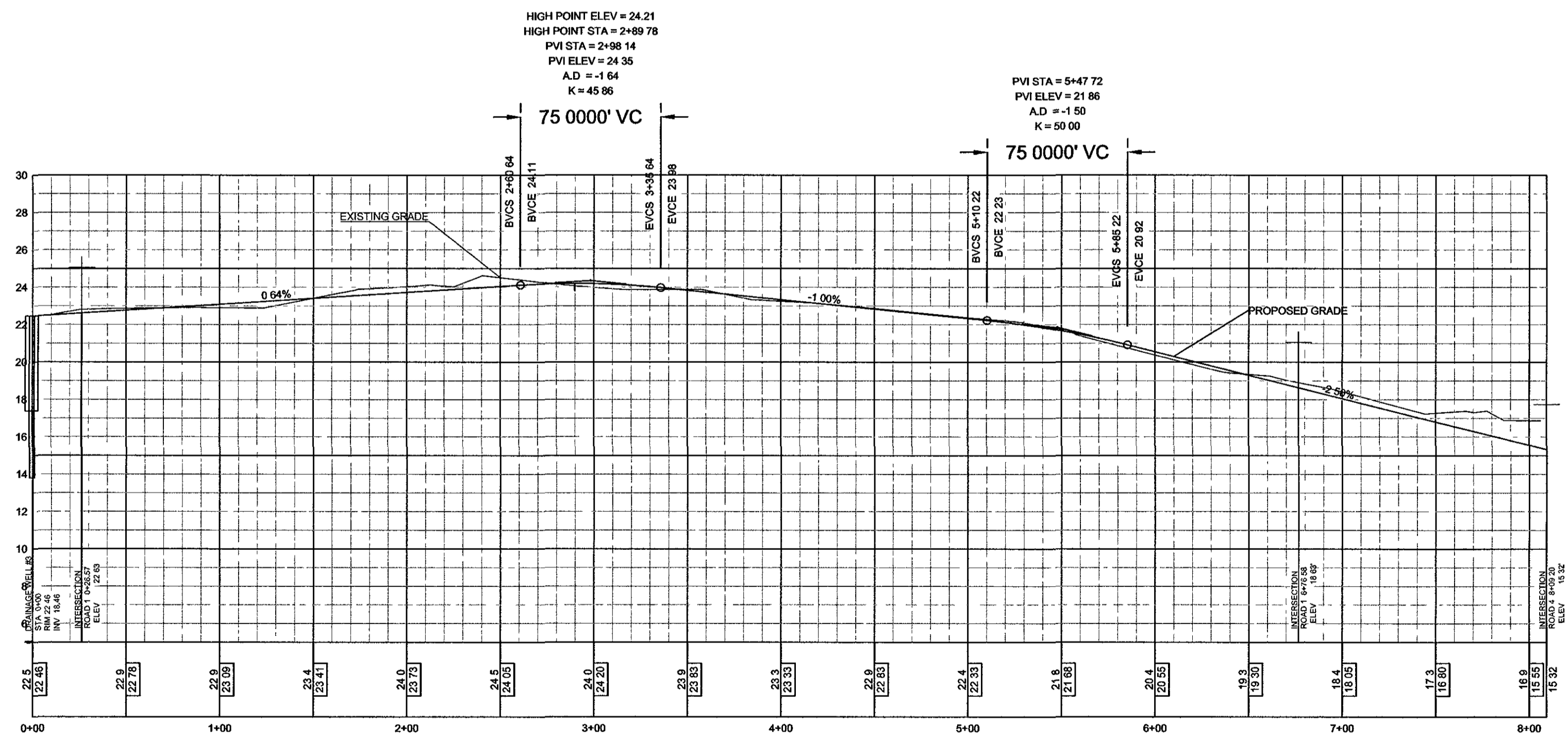
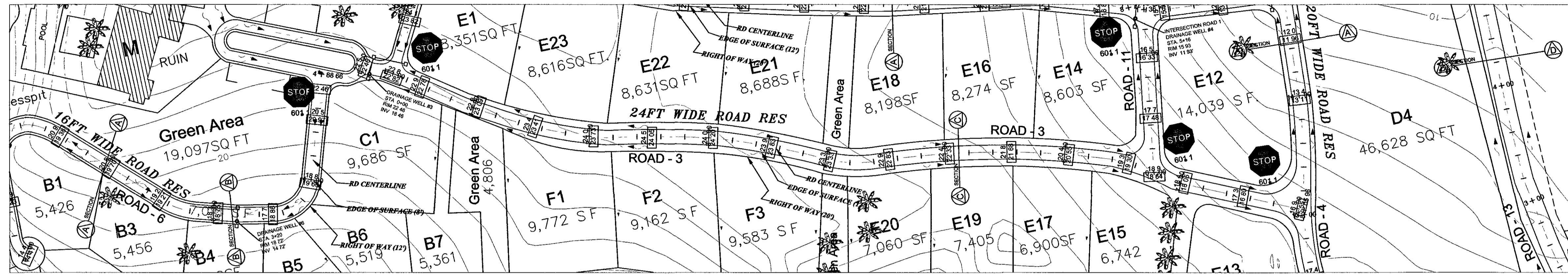
PROFILE - ROAD 2
 STA: 0+00 TO 6+58.00
 SCALE: V-1:5 H-1:50

CIVIL WORKS APPROVED
 SUBJECT TO COMMENTS AS MARKED
 Date: 13/05/2019
 Signature: [Signature]
 Civil Design Section



NO	DESCRIPTION	DATE	BY	NO	DESCRIPTION	DATE	BY	ENGINEER OF RECORD	PREPARED FOR	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT ENGR	PROPOSED BRILAND RESIDENCES & MARINA	
														CTI	CTI
1	DESIGN DEVELOPMENT DRAWINGS	01/28/2019	CTI					 ISLAND DIMENSIONS DEVELOPMENT COMPANY Farmington House, Gladstone Road P O Box EE-15036 Nassau, Bahamas Tel# (242)-341-6318/25 Fax# (242)-368-6312	MR MICHAEL WIENER 4M HARBOUR ISLAND LTD. HARBOUR ISLAND, BAHAMAS	CTI	CTI	AF	ROAD PROFILES - ROAD 2 SCALE: 1 : 50	DRAWING NO B-02	

IF SHEET IS LESS THAN 24" X 36" IT IS A REDUCED PRINT SCALE ACCORDINGLY



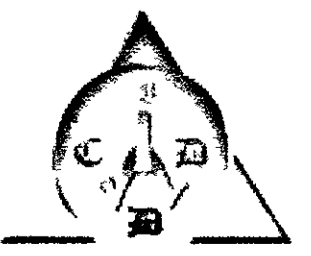
PROFILE - ROAD 3
 STA: 0+00 TO 8+09.20
 SCALE: V-1:5 H-1:50

CIVIL WORKS APPROVED
 SUBJECT TO COMMENTS AS MARKED
 Date 13/05/2019
 Signature [Signature]
 Civil Design Section



NO	DESCRIPTION	DATE	BY	NO	DESCRIPTION	DATE	BY

ENGINEER OF RECORD



ISLAND DIMENSIONS DEVELOPMENT COMPANY
 Farrington House, Gladstone Road
 P O Box EE-15036
 Nassau, Bahamas
 Tel: (242)-341-4318/25
 Fax: (242)-368-4312

PREPARED FOR

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4M HARBOUR ISLAND LTD.
HARBOUR ISLAND, BAHAMAS

DESIGNED BY	CTI
DRAWN BY	CTI
CHECKED BY	
PROJECT ENGR	AF

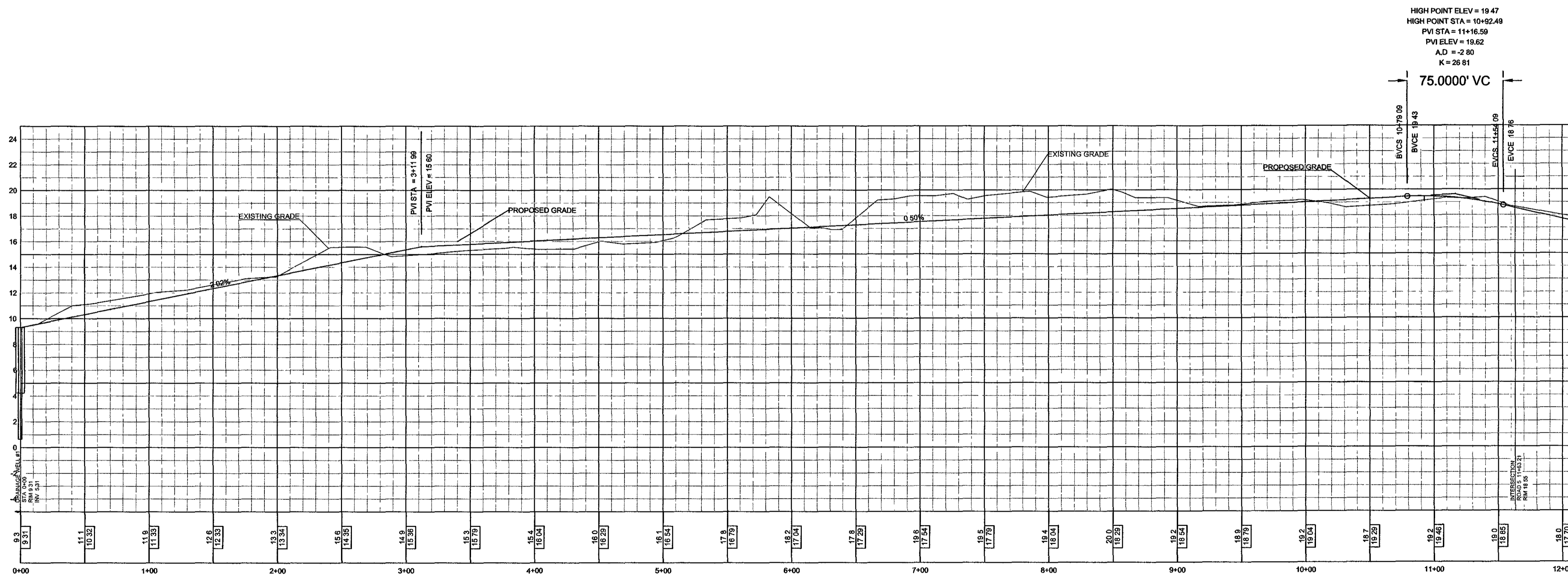
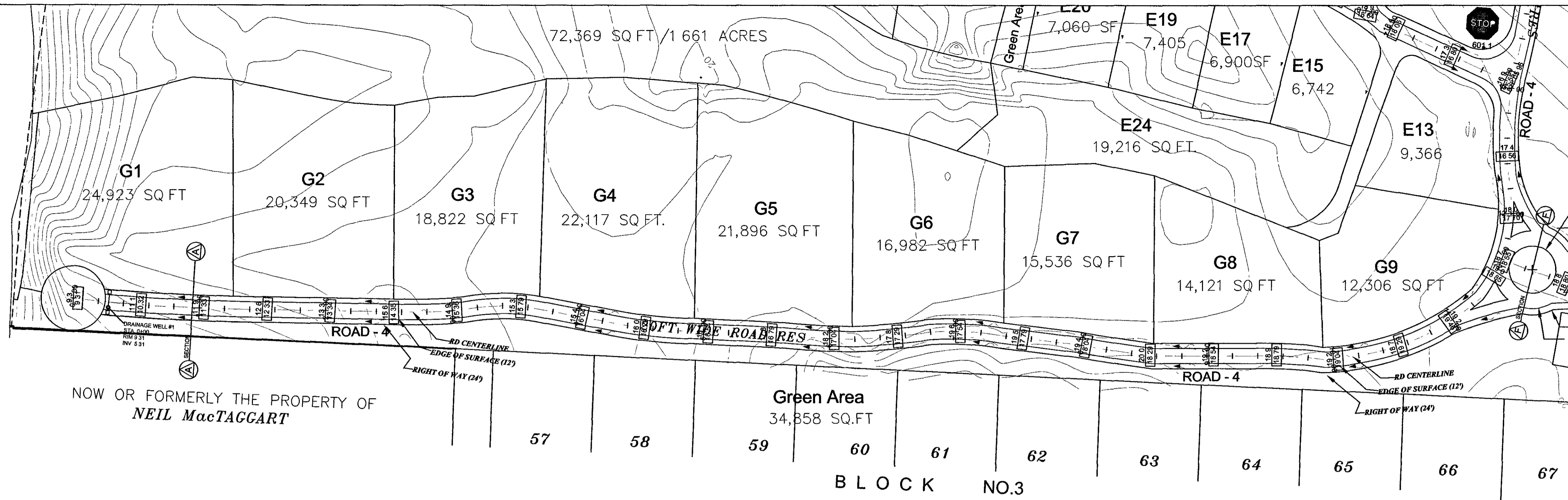
PROPOSED BRILAND RESIDENCES & MARINA

ROAD PROFILES - ROAD 3

SCALE: 1 : 50

DRAWING NO
B-03

IF SHEET IS LESS THAN 24" X 36" IT IS A REDUCED PRINT SCALE ACCORDINGLY



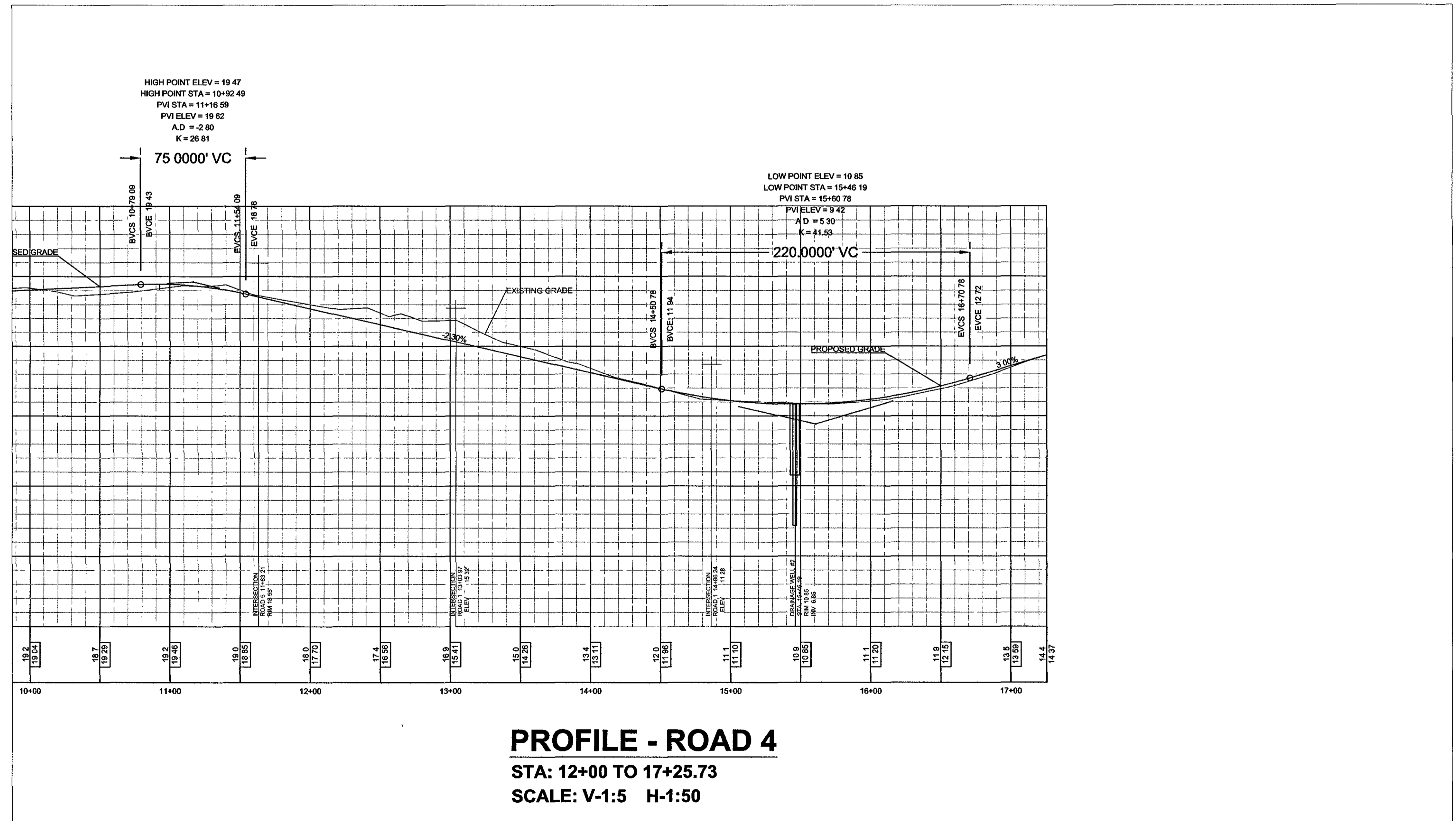
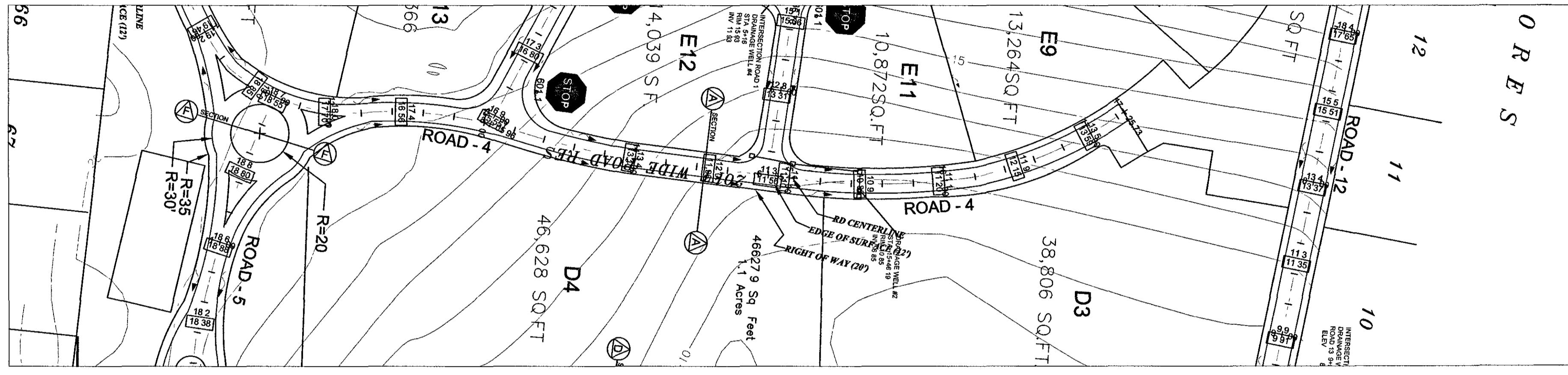
PROFILE - ROAD 4
 STA: 0+00 TO 12+00
 SCALE: V-1:5 H-1:50

CIVIL WORKS APPROVAL
 SUBJECT TO COMMENTS AS MARKED
 Date 13/05/2019
 Signature [Signature]
 Civil Design Section



NO	DESCRIPTION	DATE	BY	NO	DESCRIPTION	DATE	BY	ENGINEER OF RECORD	PREPARED FOR	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT ENGR	PROPOSED BRILAND RESIDENCES & MARINA	
														DRAWING NO	SCALE
1	DESIGN DEVELOPMENT DRAWINGS	03/12/2019	CTI					 ISLAND DIMENSIONS DEVELOPMENT COMPANY Farrington House, Gladstone Road P O Box EE-15036 Nassau, Bahamas Tel# (242)-341-6318/25 Fax# (242)-368-6312	MR MICHAEL WIENER 4M HARBOUR ISLAND LTD. HARBOUR ISLAND, BAHAMAS	CTI	CTI	AF	ROAD PROFILES - ROAD 4	B-04	
														SCALE: 1:50	

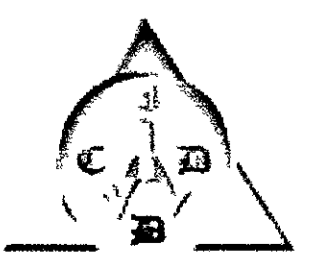
IF SHEET IS LESS THAN 24" X 36" IT IS A REDUCED PRINT. SCALE ACCORDINGLY

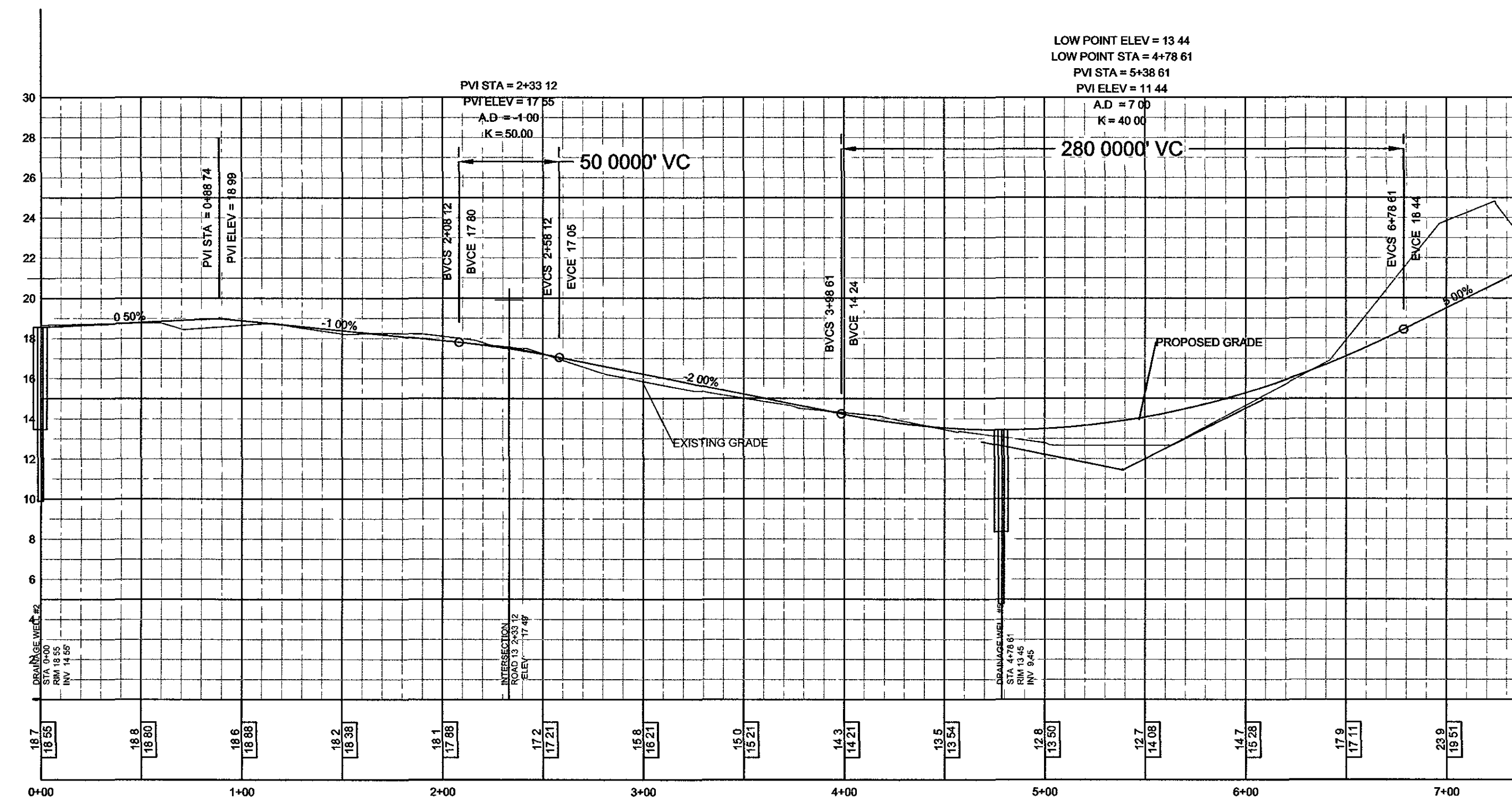
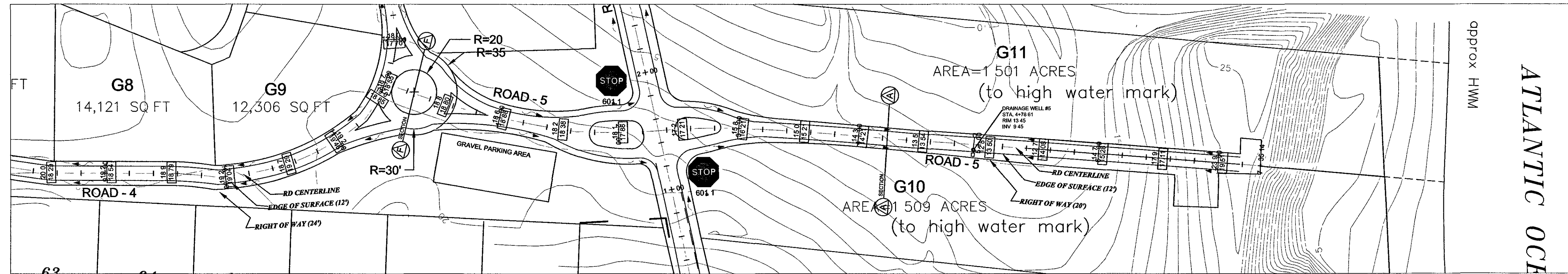


PROFILE - ROAD 4
 STA: 12+00 TO 17+25.73
 SCALE: V-1:5 H-1:50

CIVIL WORKS APPROVED
 SUBJECT TO COMMENTS AS MARKED
 Date 13/09/2019
 Signature [Signature]
 Civil Design Section

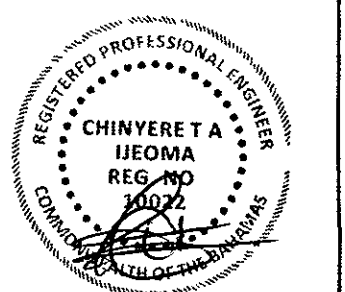


REVISIONS	NO	DESCRIPTION	DATE	BY	NO	DESCRIPTION	DATE	BY	ENGINEER OF RECORD  ISLAND DIMENSIONS DEVELOPMENT COMPANY Farmington House, Gladstone Road P O Box EE-15036 Nassau, Bahamas Tel# (242)-341-6318/25 Fax# (242)-368-6312	PREPARED FOR MR MICHAEL WIENER 4M HARBOUR ISLAND LTD. HARBOUR ISLAND, BAHAMAS	DESIGNED BY	CTI	PROPOSED BRILAND RESIDENCES & MARINA ROAD PROFILES - ROAD 4 SCALE: 1 : 50	DRAWING NO B-05
	1	DESIGN DEVELOPMENT DRAWINGS	03/12/2019	CTI							DRAWN BY	CTI		



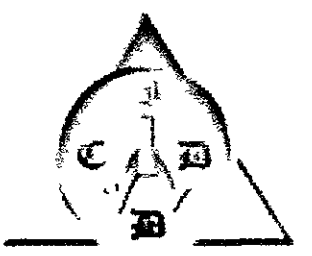
PROFILE - ROAD 5
 STA: 0+00 TO 7+35.22
 SCALE: V-1:5 H-1:50

CIVIL WORKS APPROVED
 SUBJECT TO COMMENTS AS MARKED
 Date 13/05/2019
 Signature [Signature]
 Civil Design Section



NO	DESCRIPTION	DATE	BY	NO	DESCRIPTION	DATE	BY
1	DESIGN DEVELOPMENT DRAWINGS	03/12/2019	CTI				

ENGINEER OF RECORD



ISLAND DIMENSIONS DEVELOPMENT COMPANY
 Farrington House, Gladstone Road
 P O Box EE-15036
 Nassau, Bahamas
 Tel# (242)-341-6318/25
 Fax# (242)-368-6312

PREPARED FOR

MR MICHAEL WIENER
4M HARBOUR ISLAND LTD.
HARBOUR ISLAND, BAHAMAS

DESIGNED BY	CTI
DRAWN BY	CTI
CHECKED BY	
PROJECT ENGR	AF

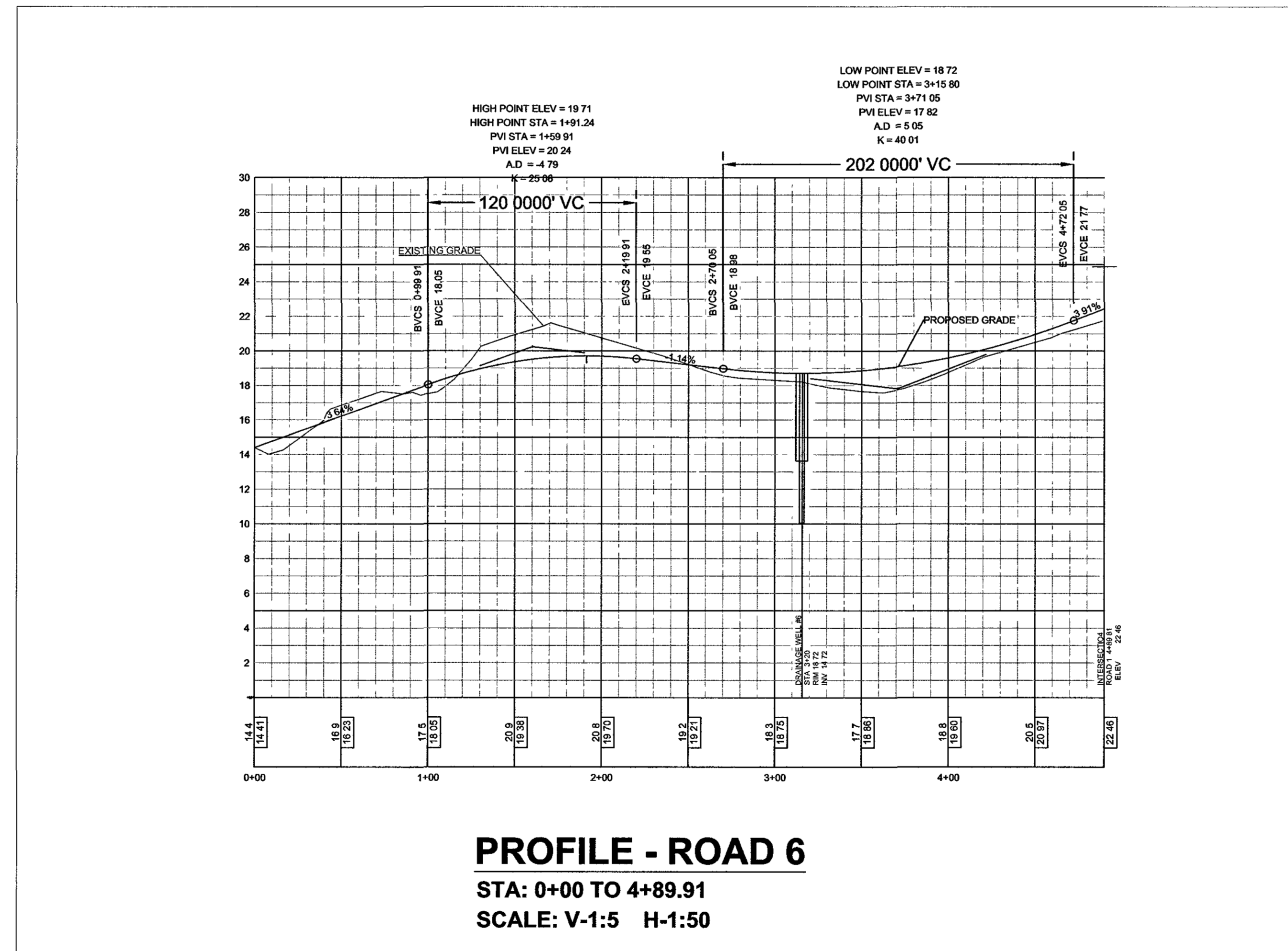
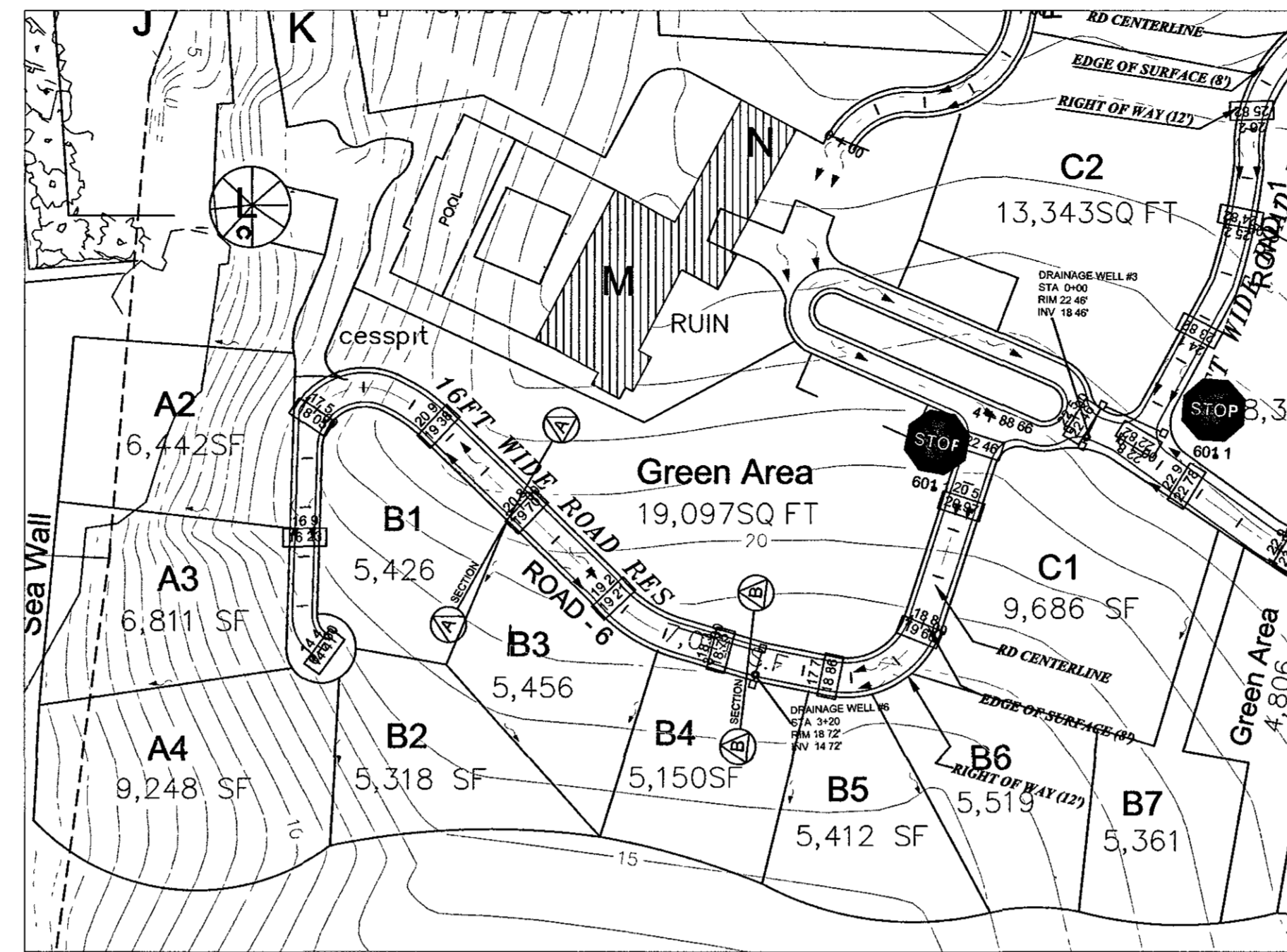
PROPOSED BRILAND RESIDENCES & MARINA

ROAD PROFILES - ROAD 5

SCALE: 1 : 50

DRAWING NO
B-06

IF SHEET IS LESS THAN 24" X 36" IT IS A REDUCED PRINT. SCALE ACCORDINGLY.



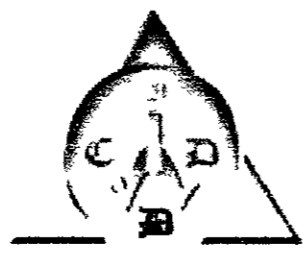
PROFILE - ROAD 6
 STA: 0+00 TO 4+89.91
 SCALE: V-1:5 H-1:50

CIVIL WORKS APPROVED
 SUBJECT TO COMMENTS AS MARKED
 Date 13/05/2019
 Signature [Signature]
 Civil Design Section



NO	DESCRIPTION	DATE	BY	NO	DESCRIPTION	DATE	BY
1	DESIGN DEVELOPMENT DRAWINGS	03/12/2019	CTI				

ENGINEER OF RECORD



ISLAND DIMENSIONS DEVELOPMENT COMPANY
 Farrington House, Gladstone Road
 P. O. Box EE-15036
 Nassau, Bahamas
 Tel# (242)-341-6318/25
 Fax# (242)-368-6312

PREPARED FOR

MR MICHAEL WIENER
 4M HARBOUR ISLAND LTD.
 HARBOUR ISLAND, BAHAMAS

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PROJECT ENGR	AF

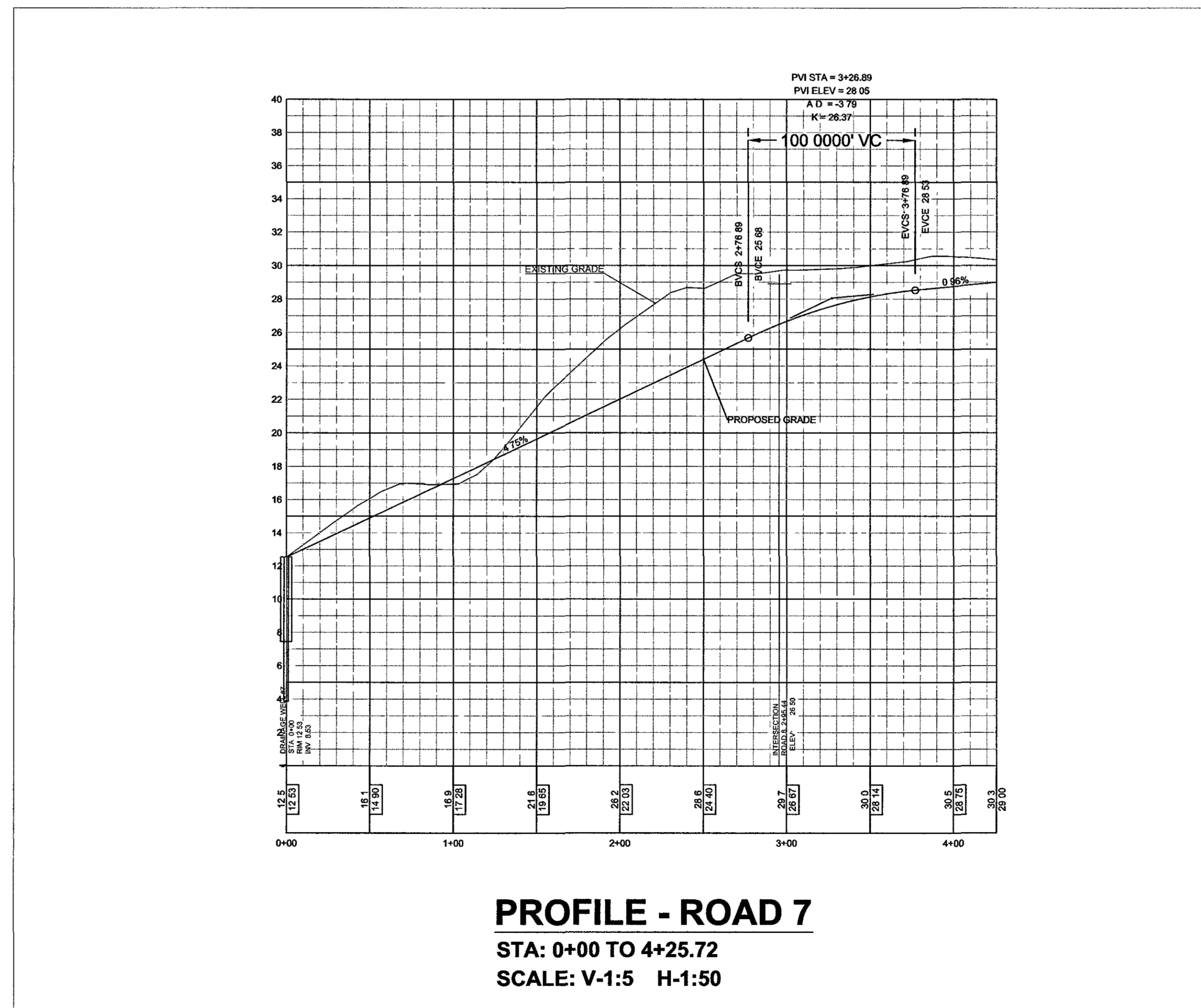
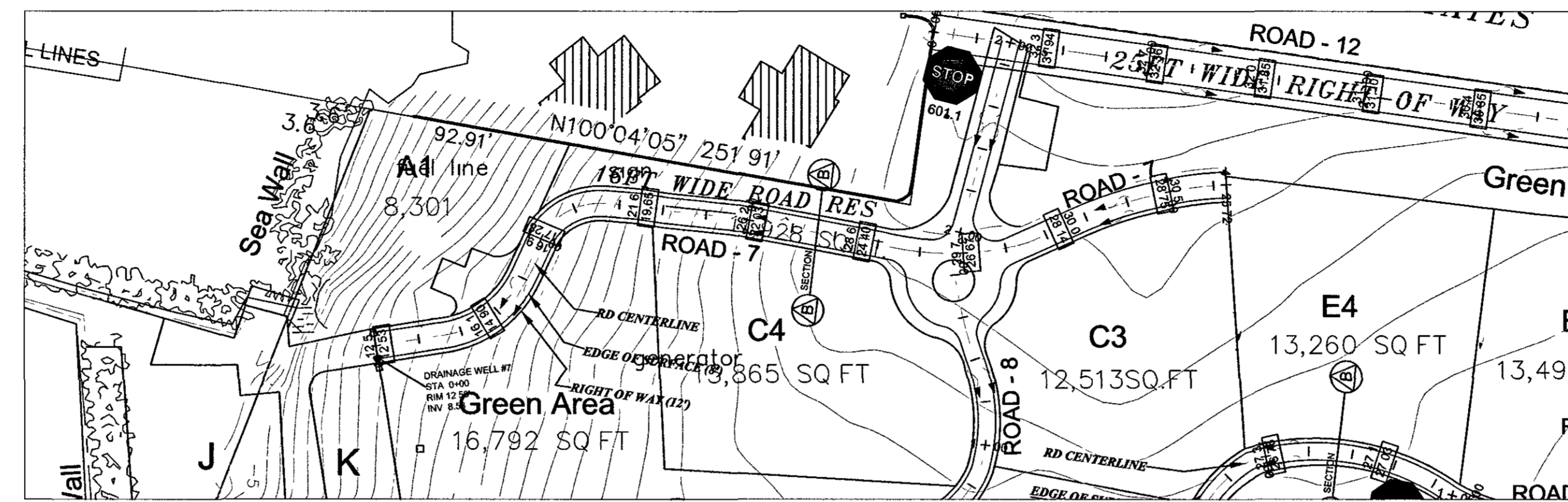
PROPOSED BRILAND RESIDENCES & MARINA

ROAD PROFILES - ROAD 6

SCALE: 1 : 50

DRAWING NO
B-07

IF SHEET IS LESS THAN 24" X 36" IT IS A REDUCED PRINT SCALE ACCORDINGLY



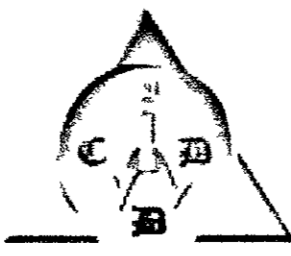
PROFILE - ROAD 7
 STA: 0+00 TO 4+25.72
 SCALE: V-1:5 H-1:50

CIVIL WORKS APPROVED
 SUBJECT TO COMPLETE AS MARKED
 Date 13/05/19
 Signature [Signature]
 Civil Design Section



NO	DESCRIPTION	DATE	BY	NO	DESCRIPTION	DATE	BY
1	DESIGN DEVELOPMENT DRAWINGS	03/12/2019	CTI				

ENGINEER OF RECORD



ISLAND DIMENSIONS DEVELOPMENT COMPANY
 Farrington House, Gladstone Road
 P O Box EE-15036
 Nassau, Bahamas
 Tel# (242)-341-6319/25
 Fax# (242)-368-6312

PREPARED FOR

MR MICHAEL WIENER
4M HARBOUR ISLAND LTD.
HARBOUR ISLAND, BAHAMAS

DESIGNED BY	CTI
DRAWN BY	CTI
CHECKED BY	
PROJECT ENGR	AF

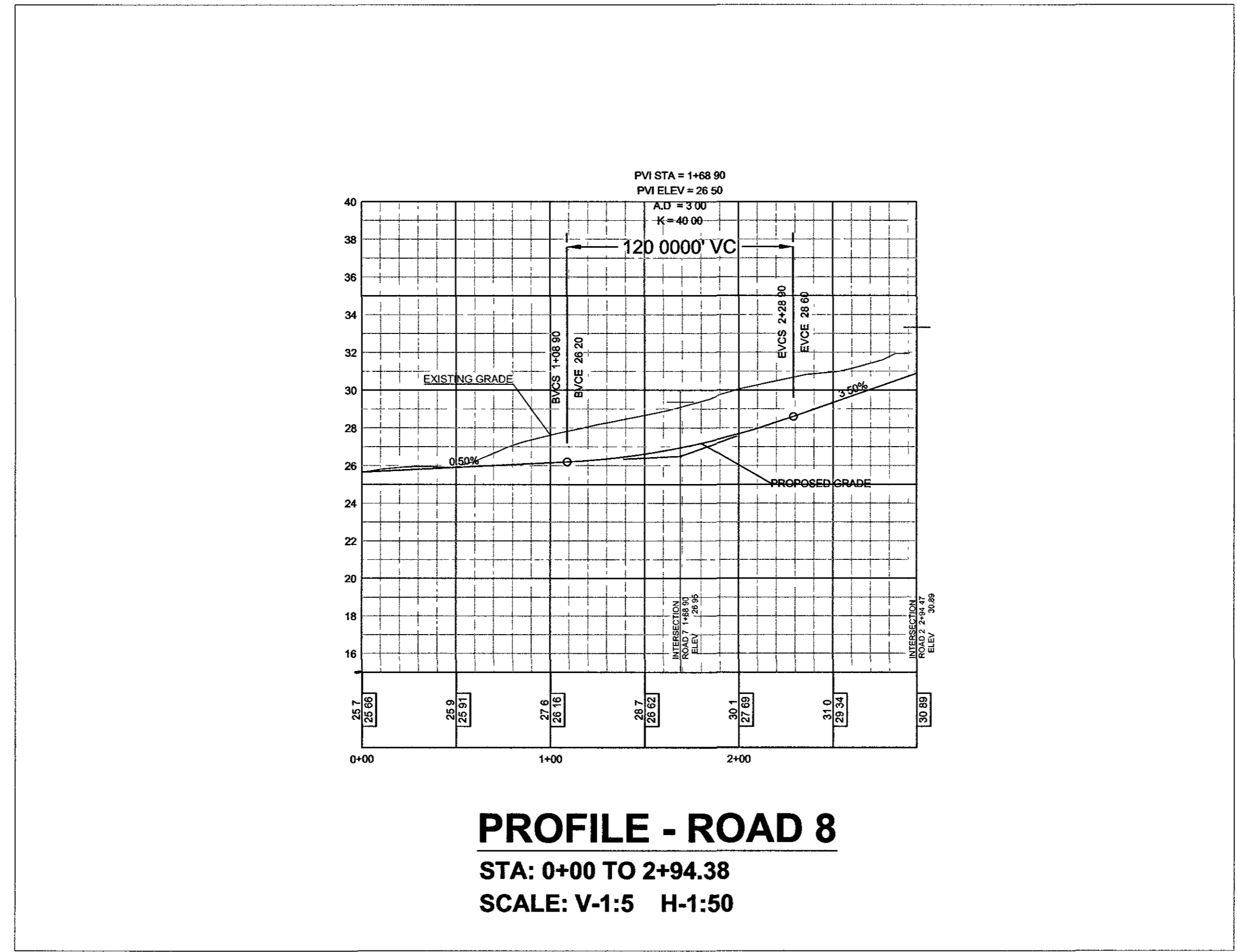
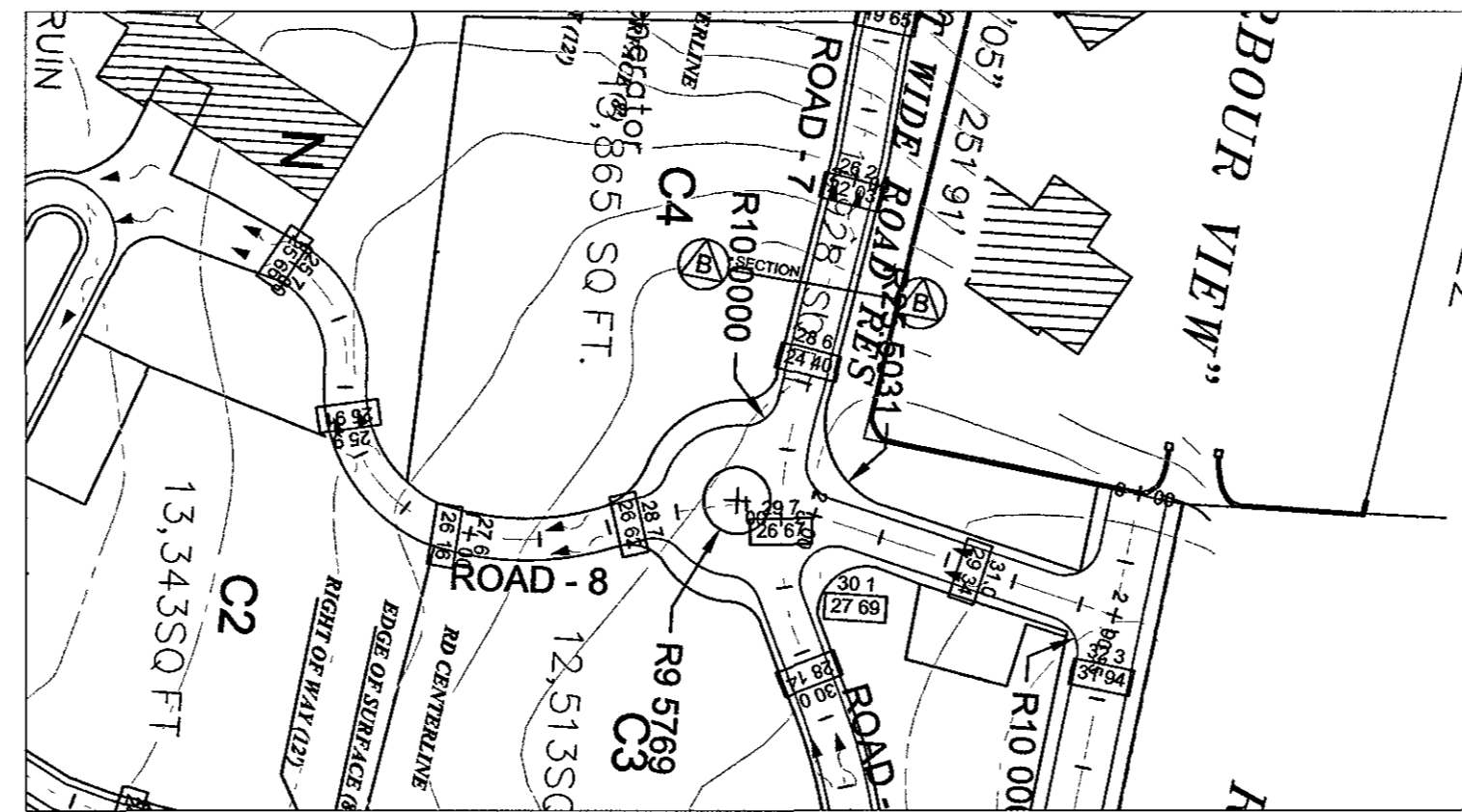
PROPOSED BRILAND RESIDENCES & MARINA

ROAD PROFILES - ROAD 7

SCALE: 1 : 50

DRAWING NO.
B-08

IF SHEET IS LESS THAN 24" X 36" IT IS A REDUCED PRINT SCALE ACCORDINGLY



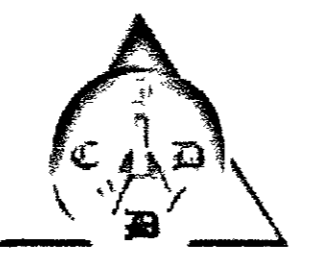
PROFILE - ROAD 8
 STA: 0+00 TO 2+94.38
 SCALE: V-1:5 H-1:50

CIV'L WORKS APPROVED
 SUBJECT TO COMMENTS AS MARKED
 Date 13/05/2019
 Signature *[Signature]*
 Civil Design Section



NO	DESCRIPTION	DATE	BY	NO	DESCRIPTION	DATE	BY

ENGINEER OF RECORD



ISLAND DIMENSIONS DEVELOPMENT COMPANY
 Farrington House, Gladstone Road
 P. O. Box EE-15036
 Nassau, Bahamas
 Tel# (242)-341-6318/25
 Fax# (242)-368-6312

PREPARED FOR

MR MICHAEL WIENER
 4M HARBOUR ISLAND LTD.
 HARBOUR ISLAND, BAHAMAS

DESIGNED BY	CTI
DRAWN BY	CTI
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PROJECT ENGR	AF

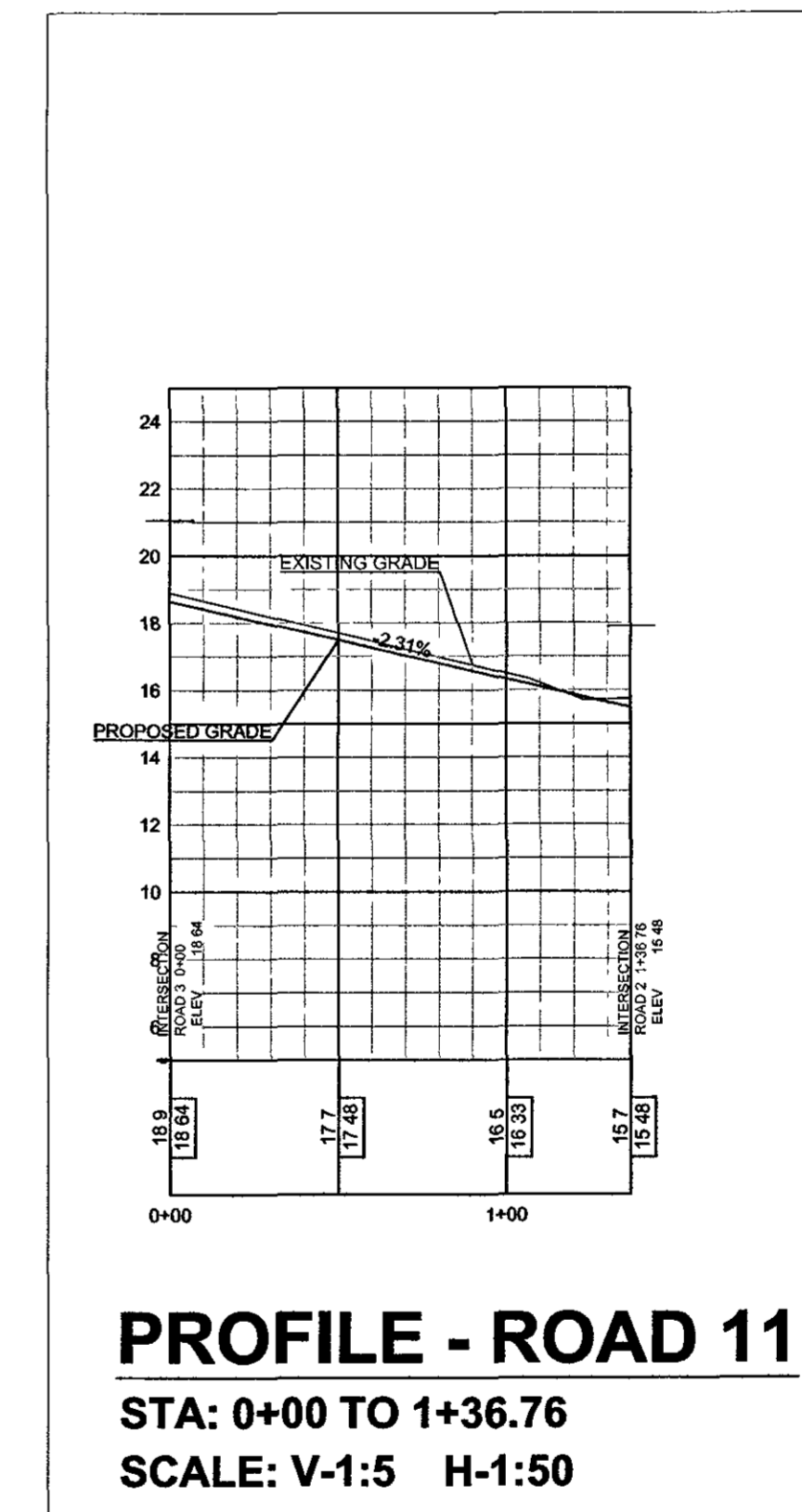
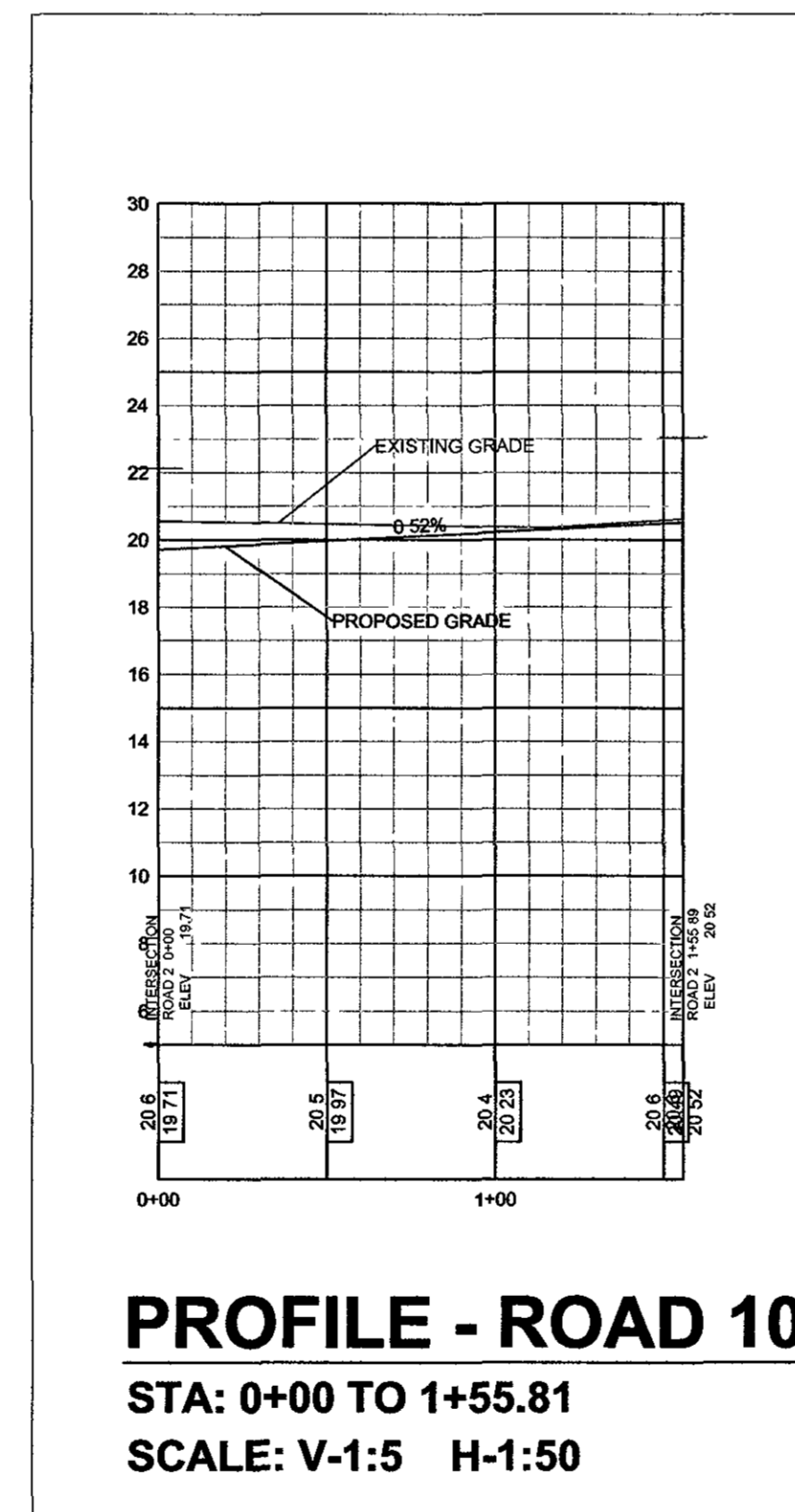
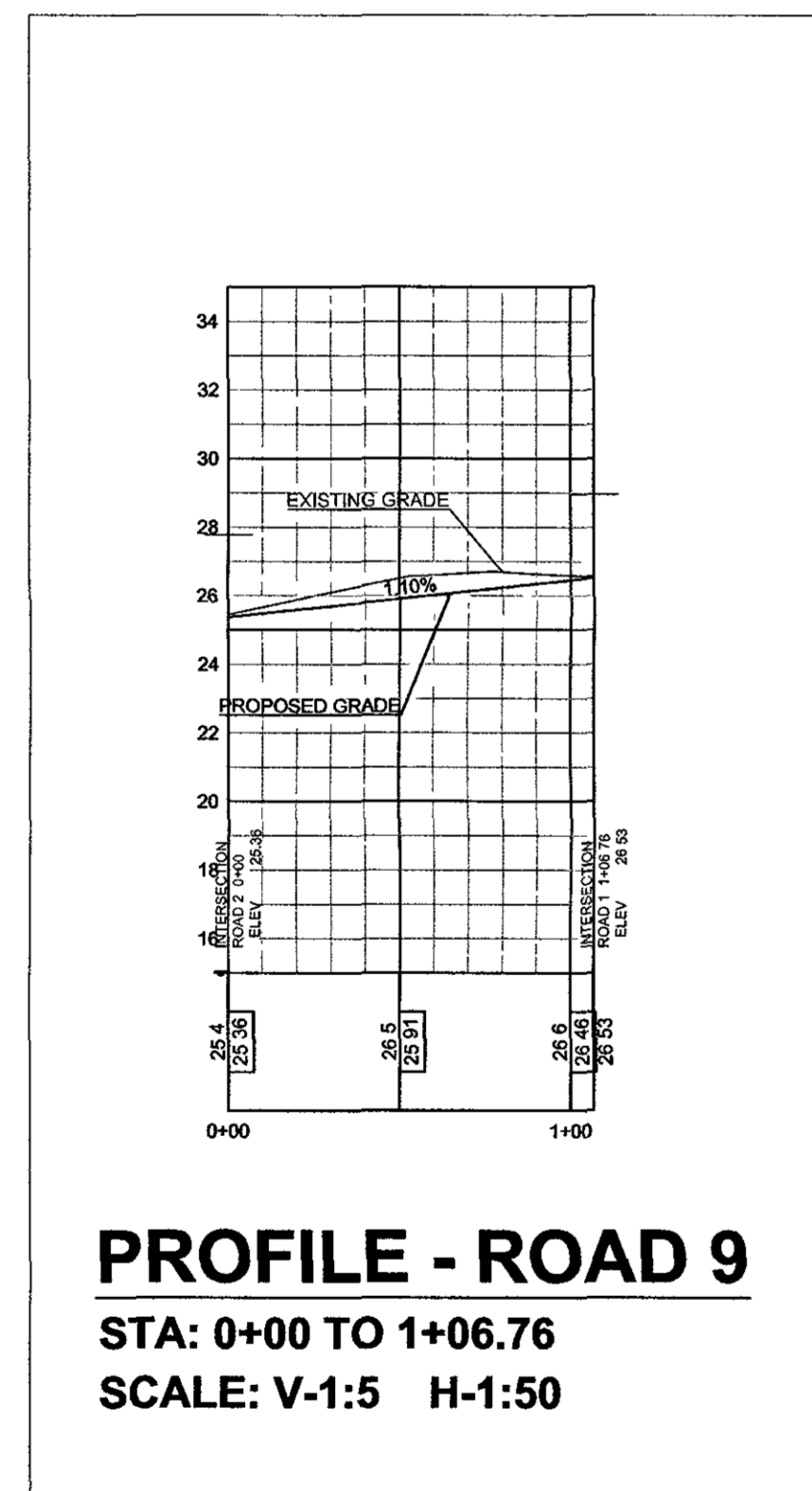
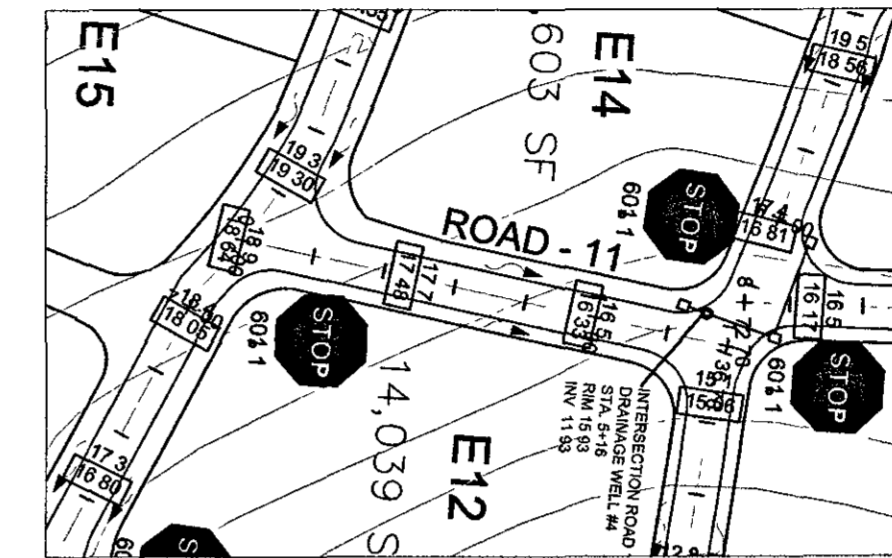
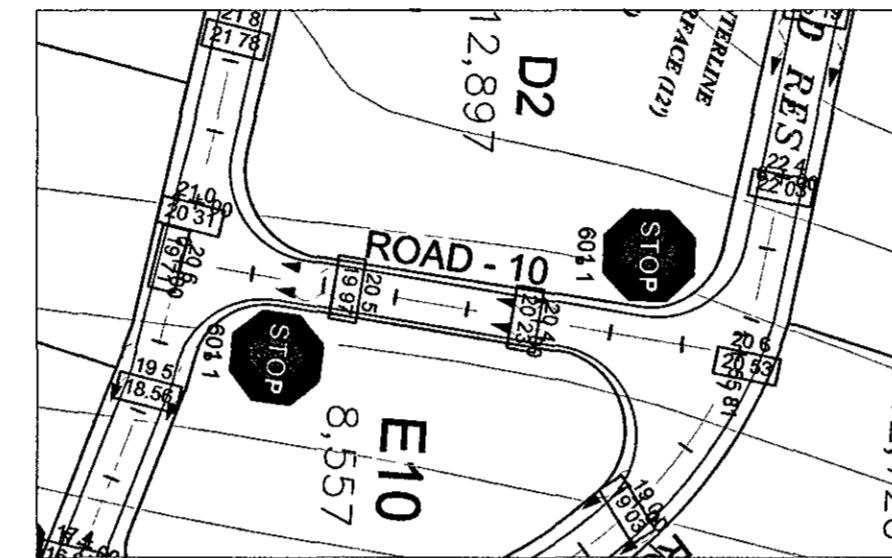
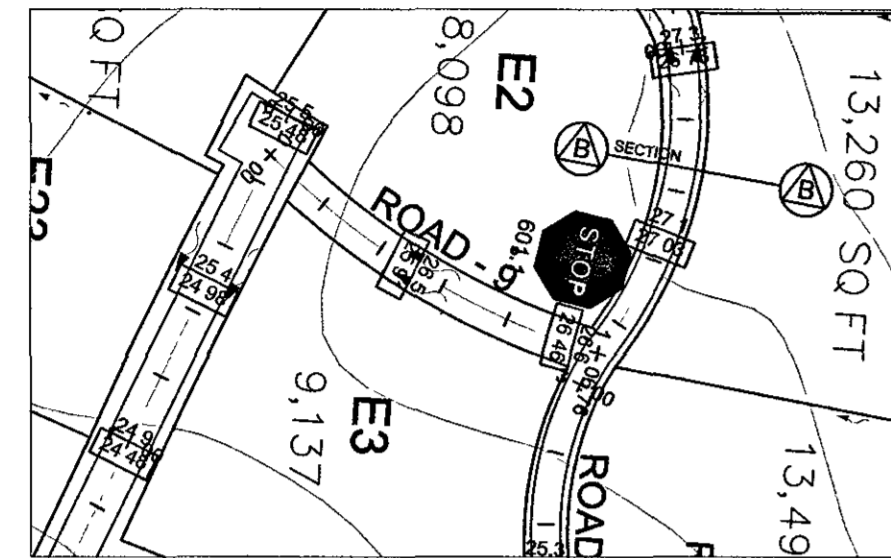
PROPOSED BRILAND RESIDENCES & MARINA

ROAD PROFILES - ROAD 8

SCALE: 1 : 50

IF SHEET IS LESS THAN 24" X 36" IT IS A REDUCED PRINT SCALE ACCORDINGLY

DRAWING NO
B-09



CIVIL WORKS APPROVED
 SUBJECT TO COMMENTS AS MARKED
 Date: 13/3/19
 Signature: [Signature]
 Civil Design Section



NO	DESCRIPTION	DATE	BY	NO	DESCRIPTION	DATE	BY
1	DESIGN DEVELOPMENT DRAWINGS	03/12/2019	CTI				

ENGINEER OF RECORD

ISLAND DIMENSIONS DEVELOPMENT COMPANY
 Farmington House, Gladstone Road
 P O Box EE-15036
 Nassau, Bahamas
 Tel# (242)-341-6318/25
 Fax# (242)-368-6312

PREPARED FOR

MR MICHAEL WIENER
 4M HARBOUR ISLAND LTD.
 HARBOUR ISLAND, BAHAMAS

DESIGNED BY: CTI
 DRAWN BY: CTI
 CHECKED BY:
 PROJECT ENGR: AF

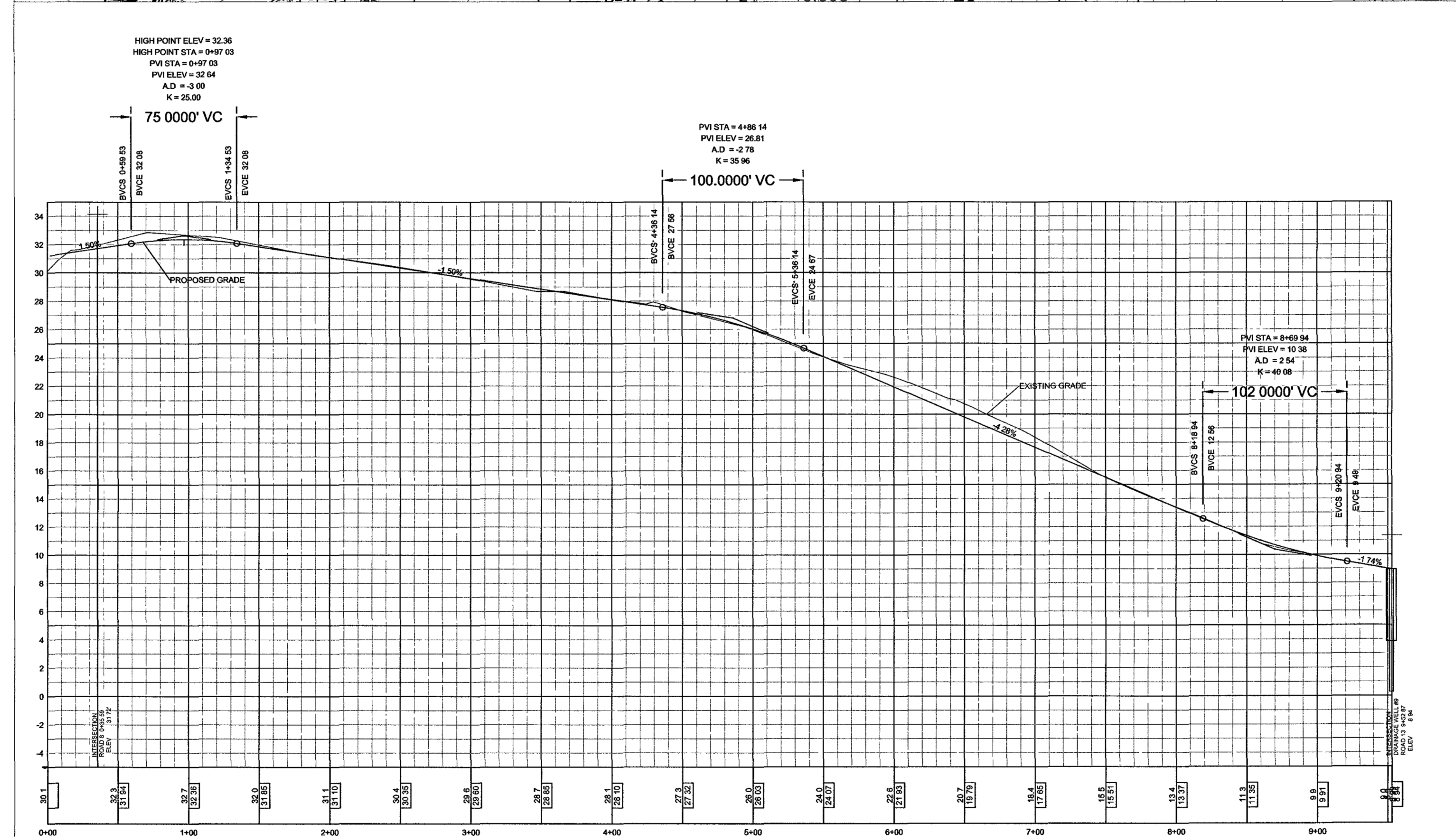
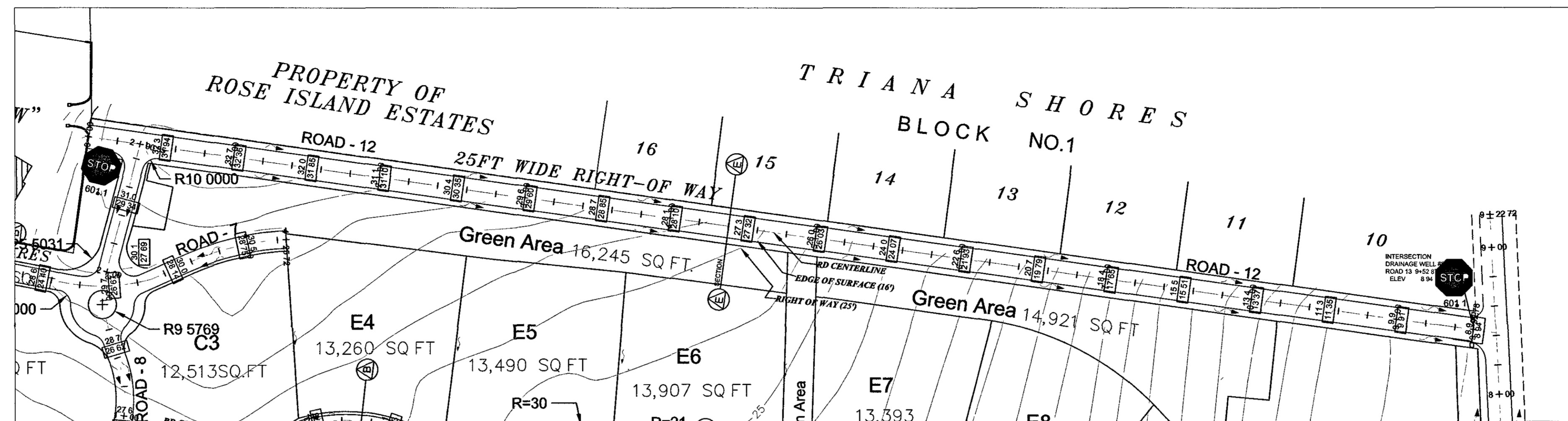
PROPOSED BRILAND RESIDENCES & MARINA

ROAD PROFILES - ROADS 9, 10 & 11

SCALE: 1 : 50

IF SHEET IS LESS THAN 24" X 36" IT IS A REDUCED PRINT. SCALE ACCORDINGLY

DRAWING NO: **B-10**



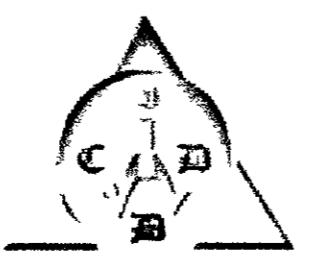
PROFILE - ROAD 12
 STA: 0+00 TO 9+52.78
 SCALE: V-1:5 H-1:50

CIVIL WORKS APPROVED
 SUBJECT TO COMMENTS AS MARKED
 Date 13/05/2019
 Signature [Signature]
 Civil Design Section



NO	DESCRIPTION	DATE	BY	NO	DESCRIPTION	DATE	BY
1	DESIGN DEVELOPMENT DRAWINGS	03/12/2019	CTI				

ENGINEER OF RECORD



ISLAND DIMENSIONS DEVELOPMENT COMPANY
 Farmington House, Gladstone Road
 P O Box EE-15038
 Nassau, Bahamas
 Tel# (242)-341-8318/25
 Fax# (242)-368-6312

PREPARED FOR

MR MICHAEL WIENER
 4M HARBOUR ISLAND LTD.
 HARBOUR ISLAND, BAHAMAS

DESIGNED BY	CTI
DRAWN BY	CTI
CHECKED BY	
PROJECT ENGR	AF

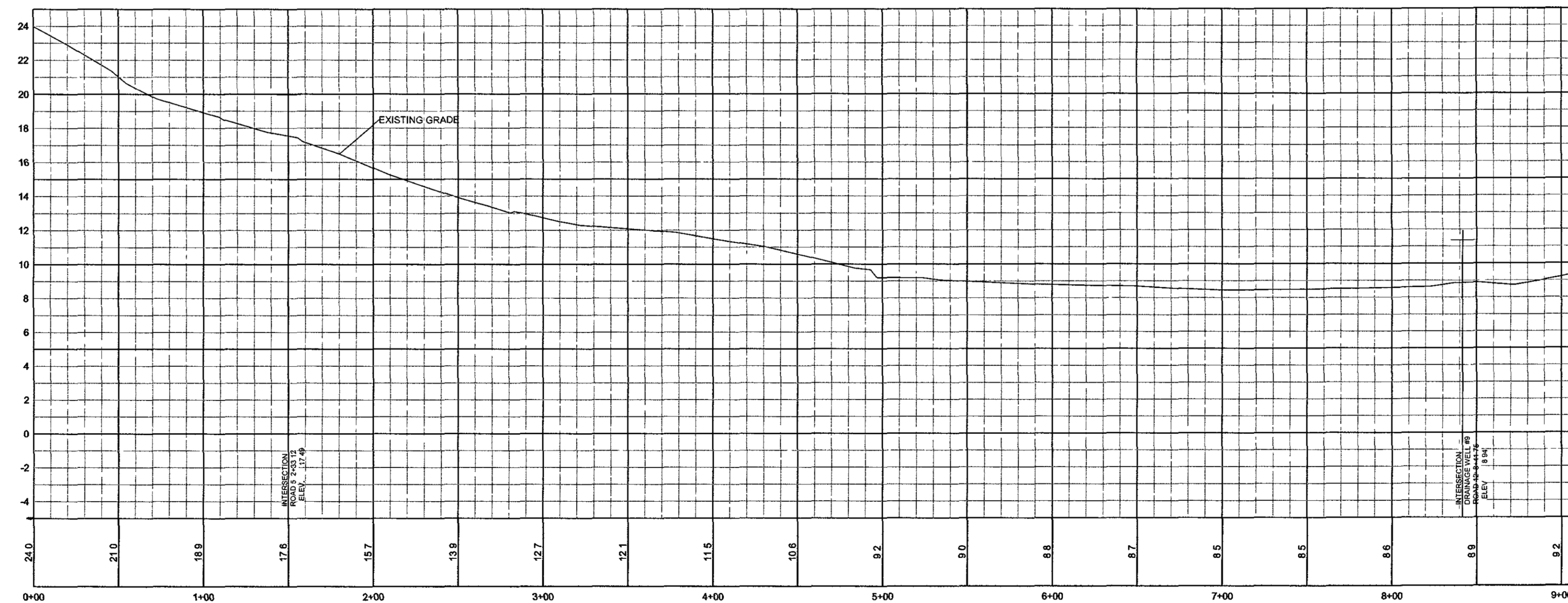
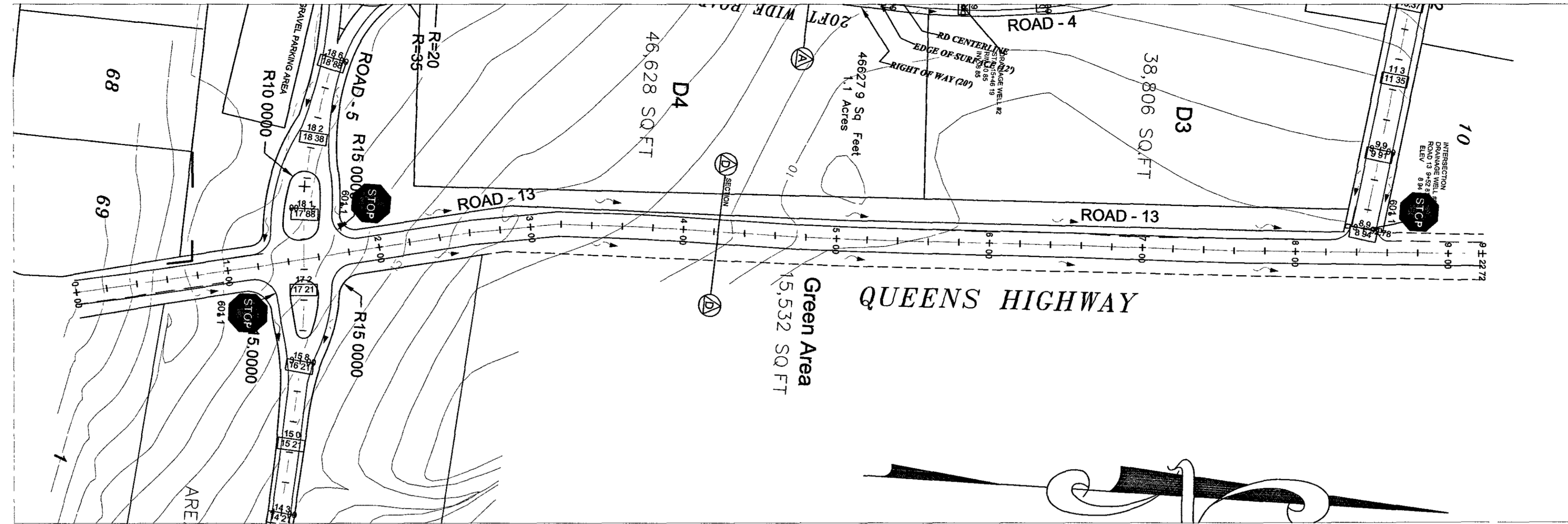
PROPOSED BRILAND RESIDENCES & MARINA

ROAD PROFILES - ROAD 12

SCALE: 1 : 50

DRAWING NO
B-11

IF SHEET IS LESS THAN 24" X 36" IT IS A REDUCED PRINT SCALE ACCORDINGLY



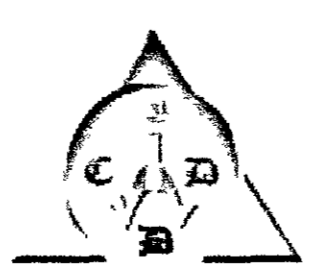
PROFILE - ROAD 13
EXISTING QUEENS HIGHWAY
 STA: 0+00 TO 9+16.62
 SCALE: V-1:5 H-1:50

CIVIL WORKS APPROVED
 SUBJECT TO COMMENTS AS MARKED
 Date 19/05/19
 Signature [Signature]
 Civil Design Section



NO	DESCRIPTION	DATE	BY	NO	DESCRIPTION	DATE	BY
1	DESIGN DEVELOPMENT DRAWINGS	03/12/2019	CTI				

ENGINEER OF RECORD



ISLAND DIMENSIONS DEVELOPMENT COMPANY
 Farrington House, Gladstone Road
 P. O. Box EE-15036
 Nassau, Bahamas
 Tel# (242)-341-6318/25
 Fax# (242)-388-6312

PREPARED FOR

MR MICHAEL WIENER
4M HARBOUR ISLAND LTD.
HARBOUR ISLAND, BAHAMAS

DESIGNED BY CTI
 DRAWN BY CTI
 CHECKED BY
 PROJECT ENGR AF

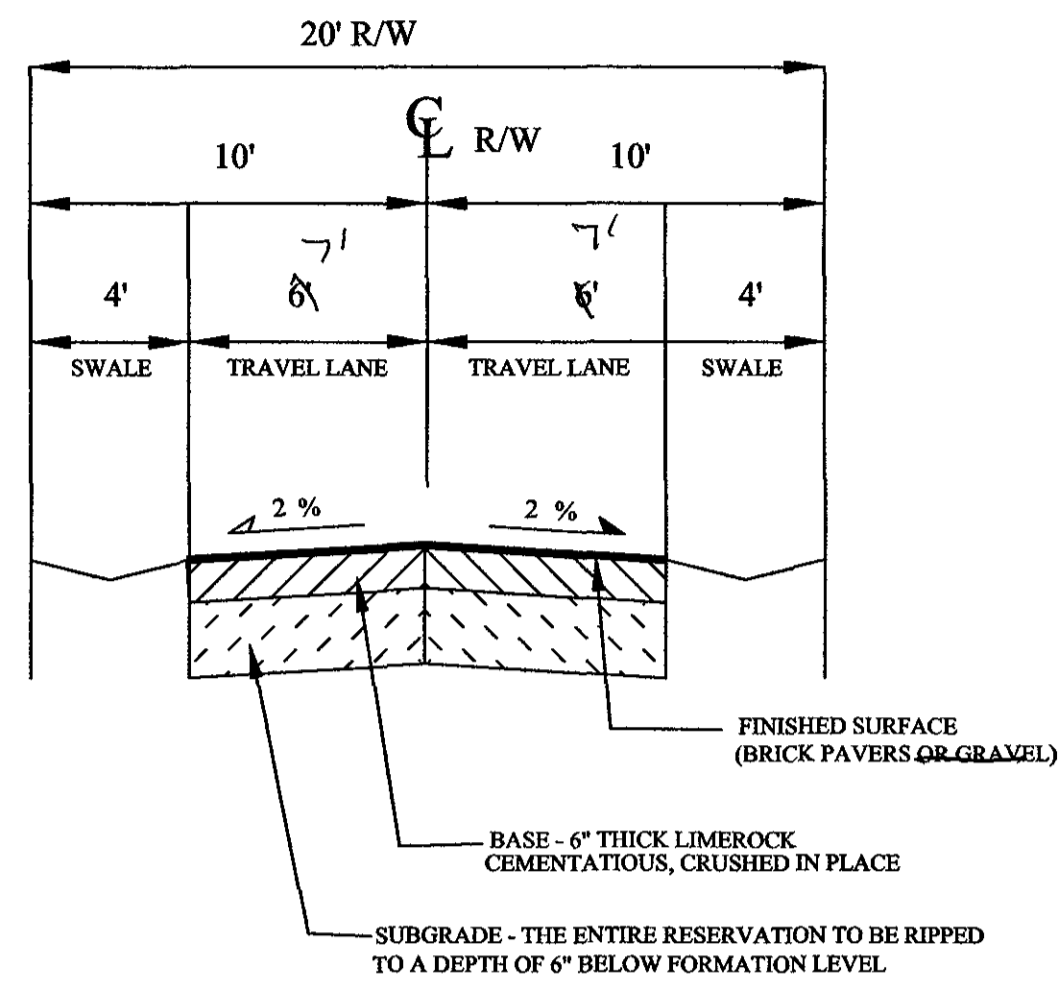
PROPOSED BRILAND RESIDENCES & MARINA

ROAD PROFILES - ROAD 13

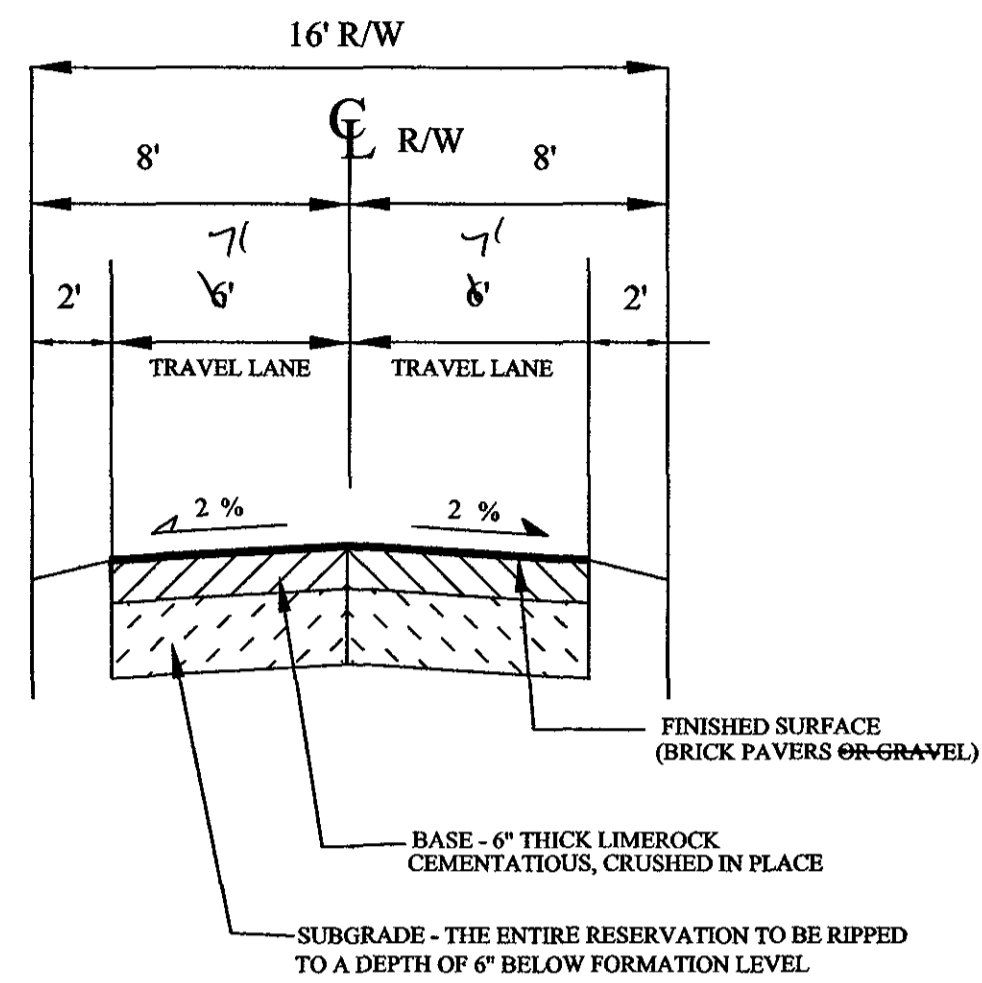
SCALE: 1 : 50

DRAWING NO **B-12**

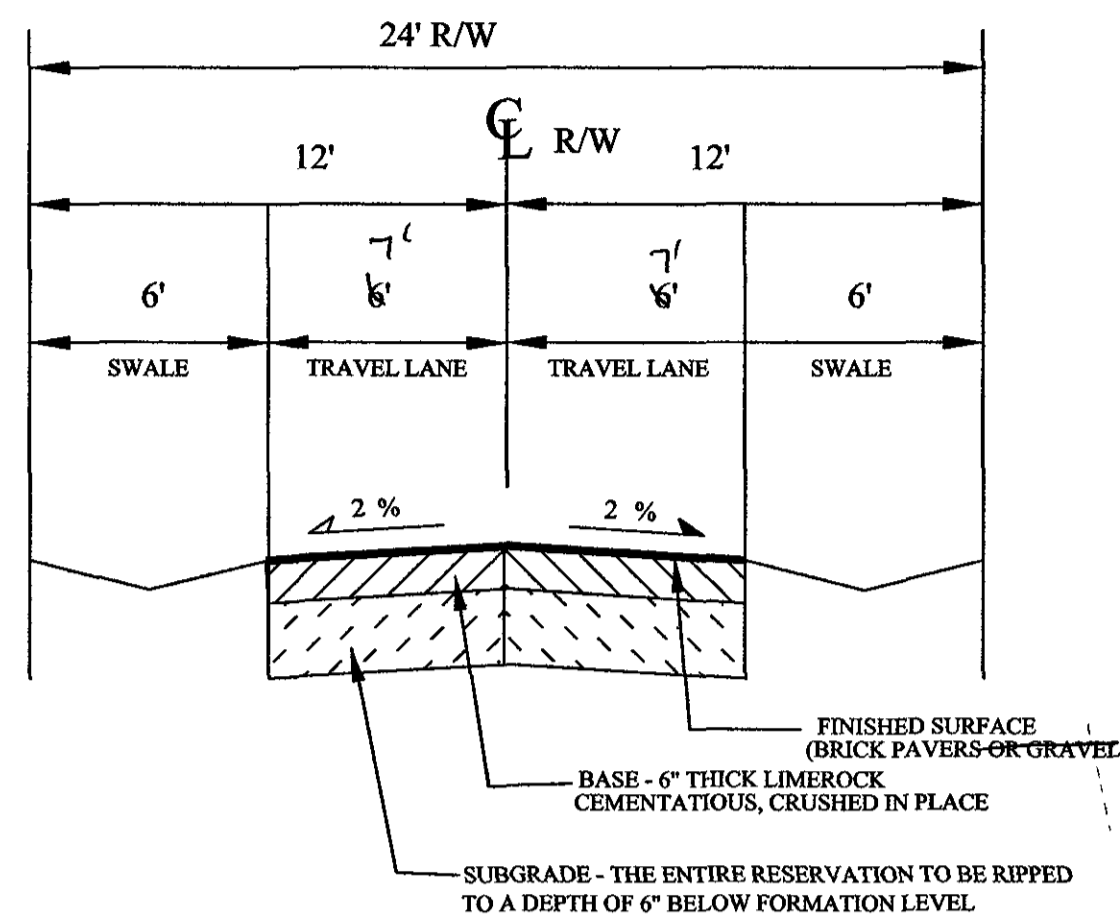
IF SHEET IS LESS THAN 24" X 36" IT IS A REDUCED PRINT SCALE ACCORDINGLY



SECTION A
ROADS 1, 2, 4

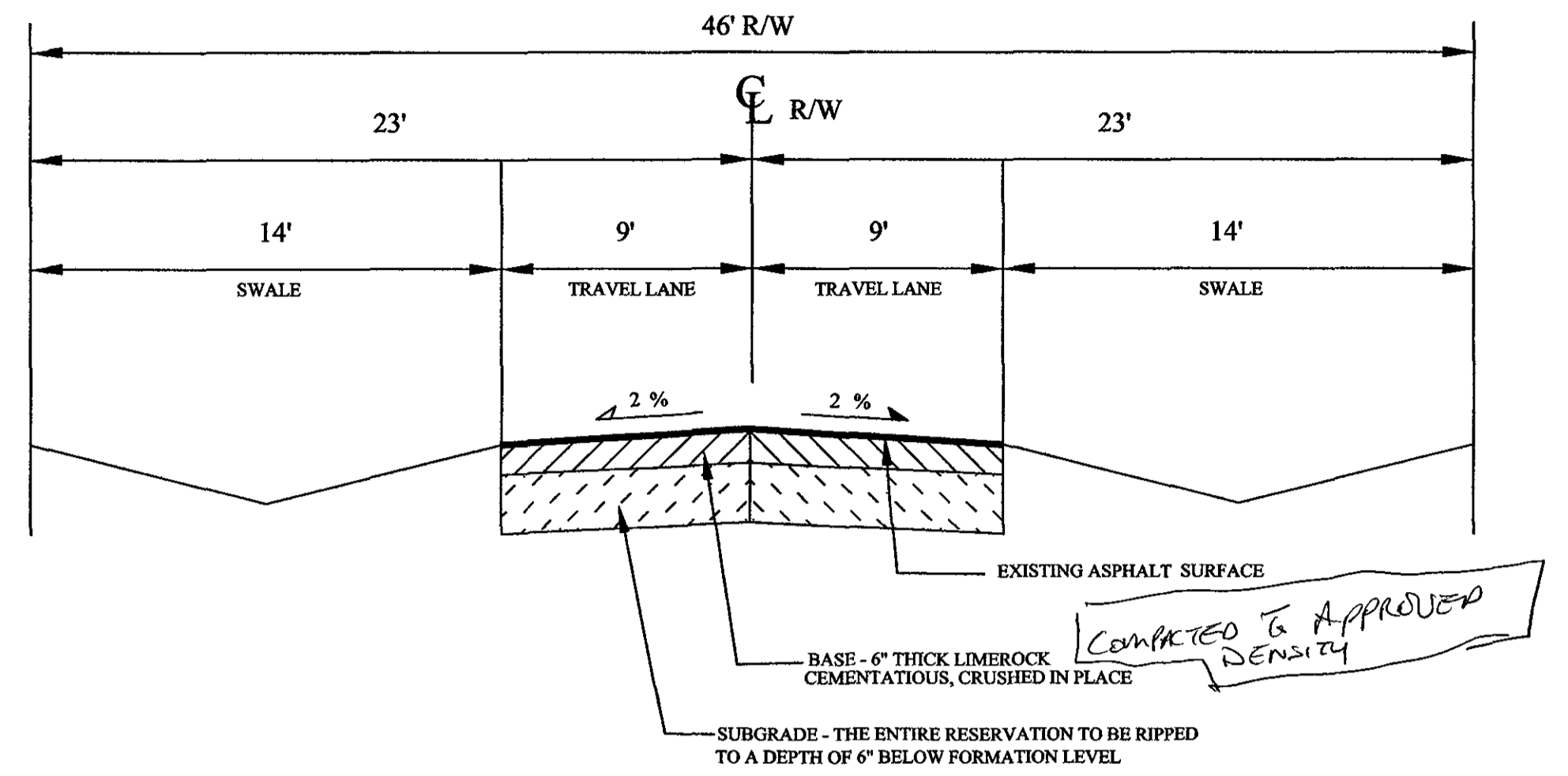


SECTION B
ROADS 6, 7, 8

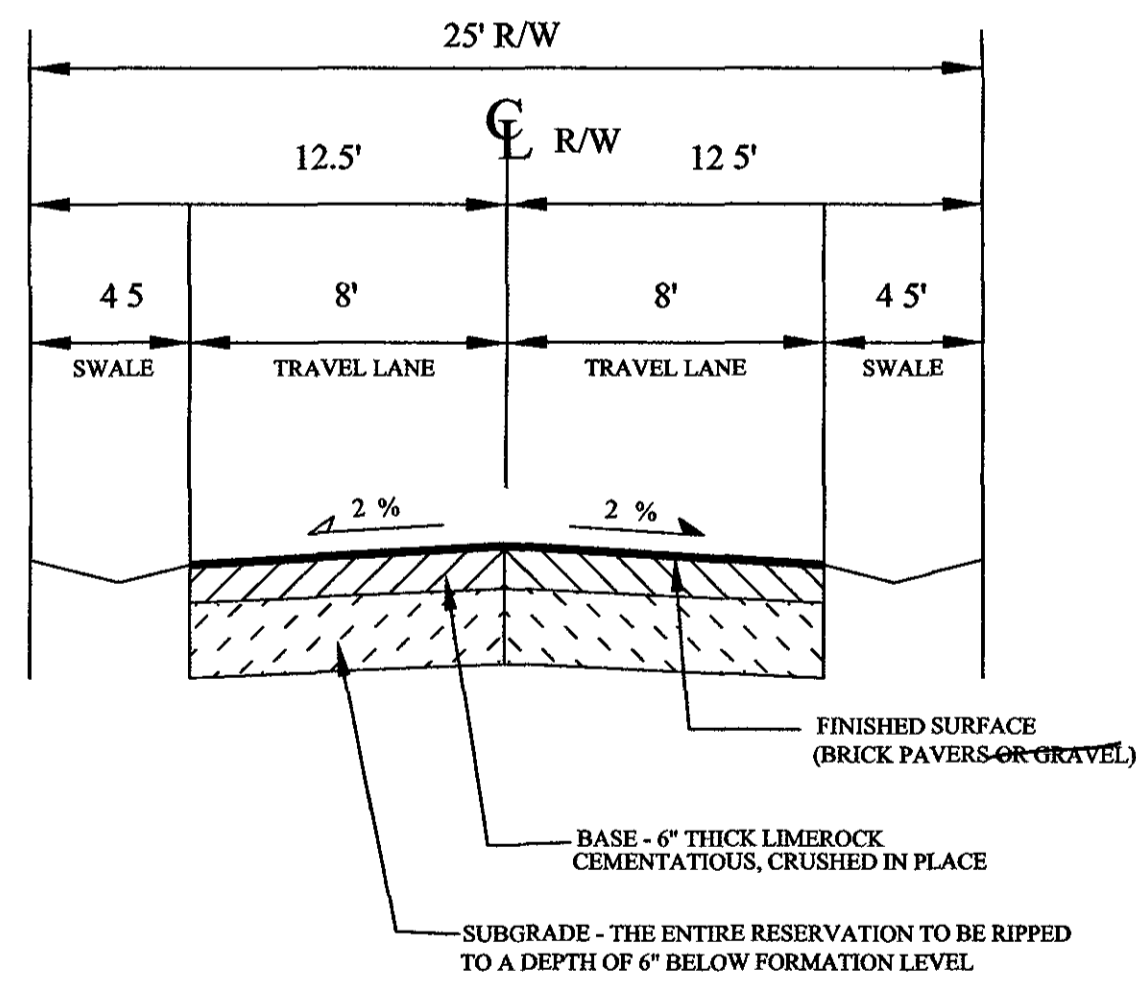


SECTION C
ROAD 3

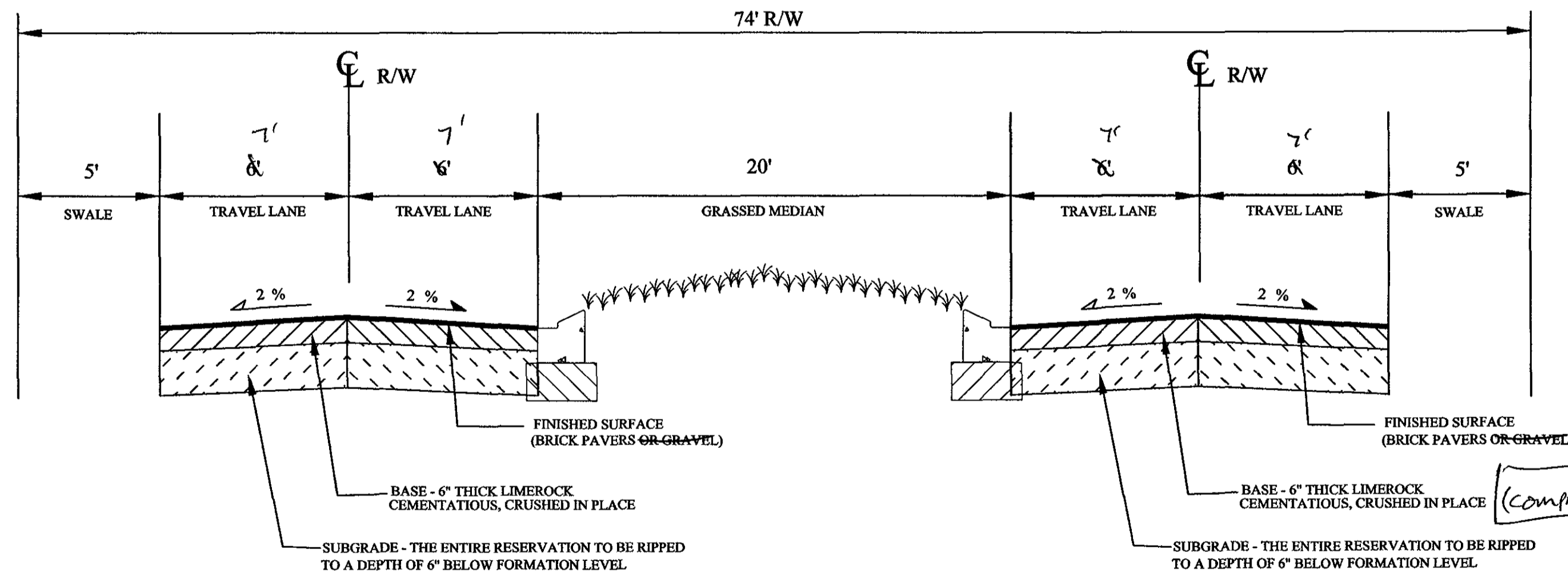
ENGINEERED BRICK PAVEDS



SECTION D
ROADS 13-QUEENS HIGHWAY



SECTION E
ROADS 12



SECTION F
ROUNDBOUT

CIVIL WORKS APPROVED
SUBJECT TO COMMENTS AS MARKED
Date 13/05/19
Signature [Signature]
Civil Design Section

COMPACTED TO APPROVED DENSITY



NO	DESCRIPTION	DATE	BY	NO	DESCRIPTION	DATE	BY
1	DESIGN DEVELOPMENT DRAWINGS	03/12/2019	CTI				

ENGINEER OF RECORD

ISLAND DIMENSIONS DEVELOPMENT COMPANY
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P. O. Box EE-15036
Nassau, Bahamas
Tel# (242)-341-6318/25
Fax# (242)-368-6312

PREPARED FOR

MR MICHAEL WIENER
4M HARBOUR ISLAND LTD.
HARBOUR ISLAND, BAHAMAS

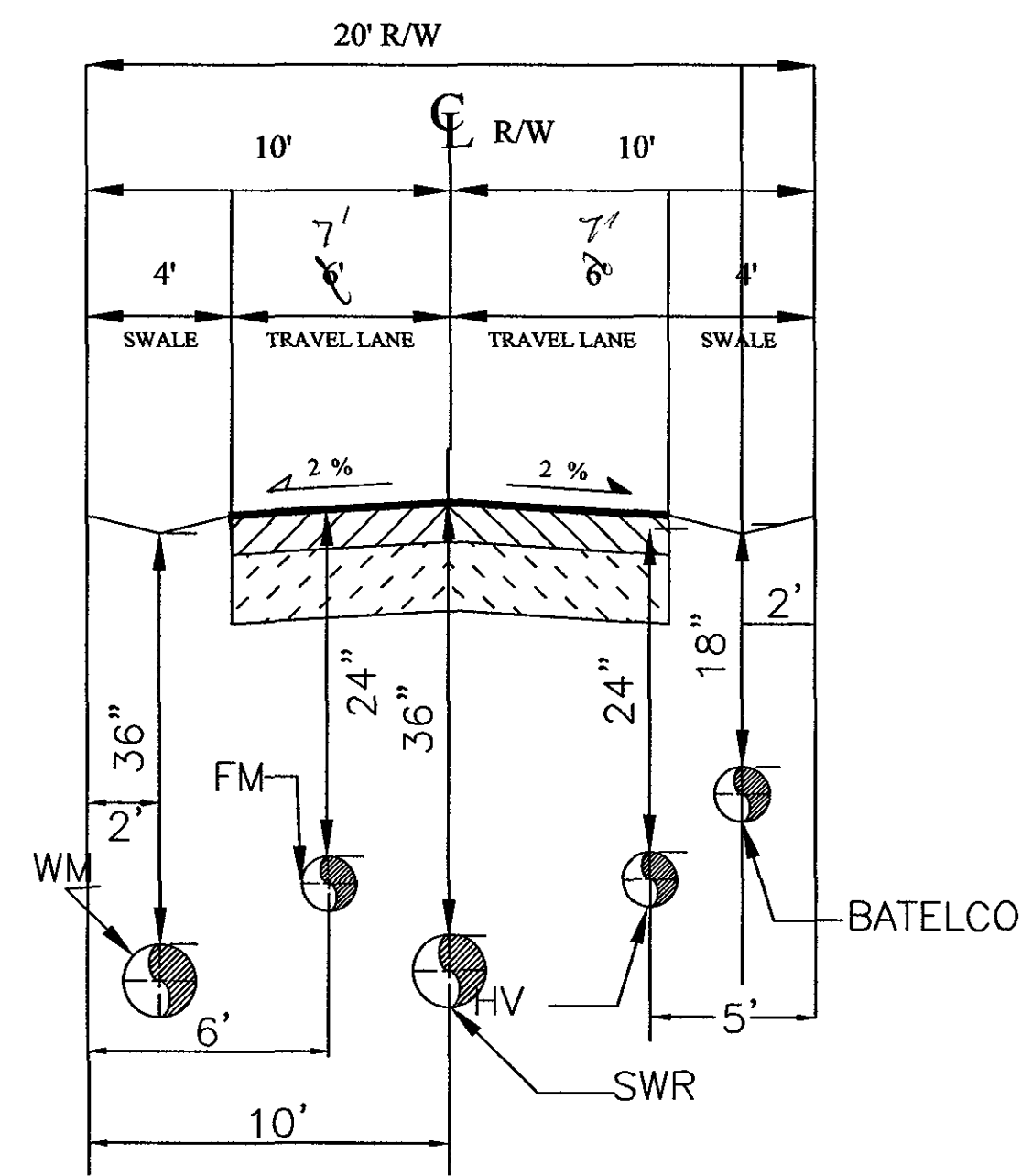
DESIGNED BY CTI
DRAWN BY CTI
CHECKED BY
PROJECT ENGR AF

PROPOSED BRILAND RESIDENCES & MARINA

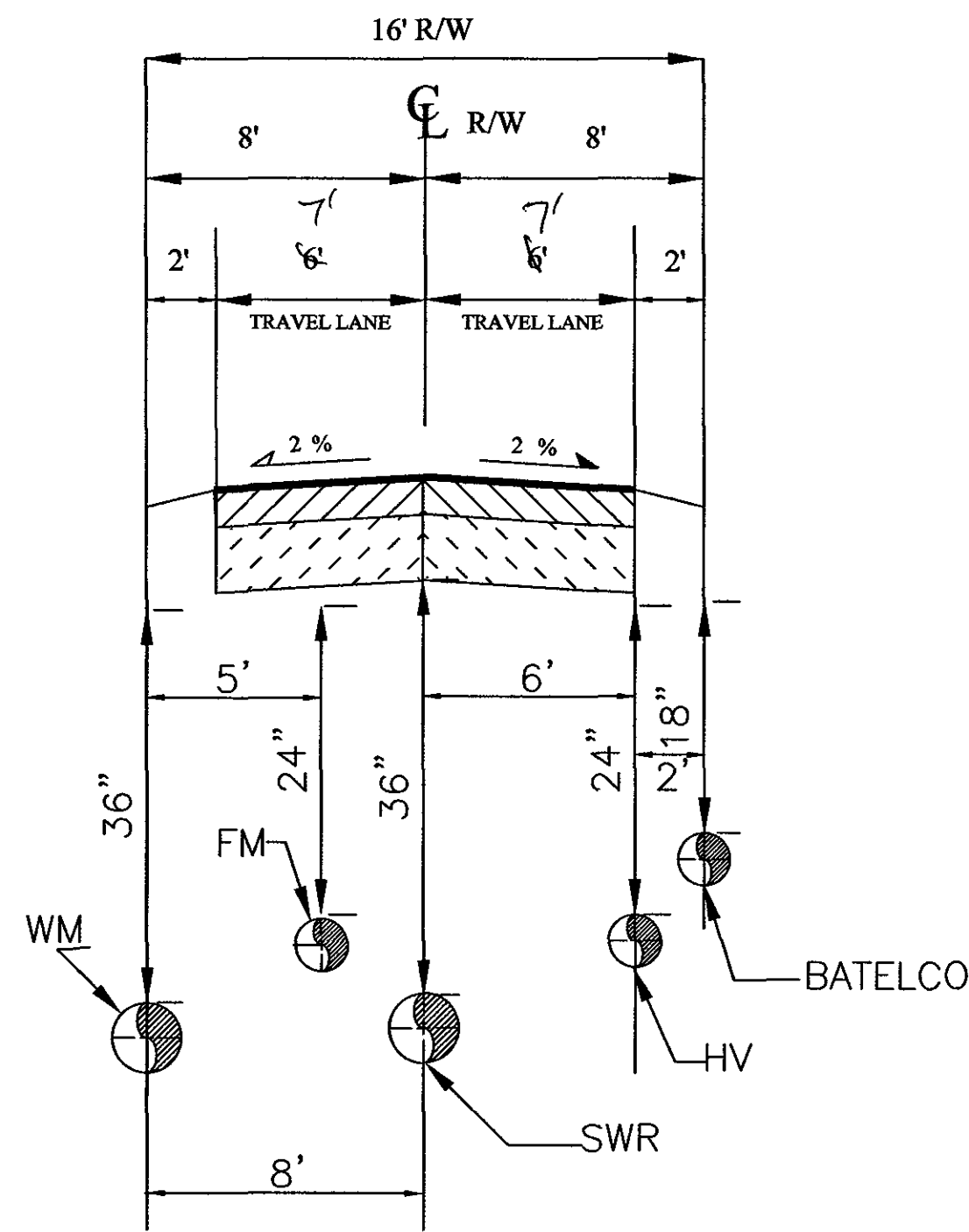
ROAD CROSS SECTIONS
SCALE: N.T.S.

DRAWING NO. **B-13**

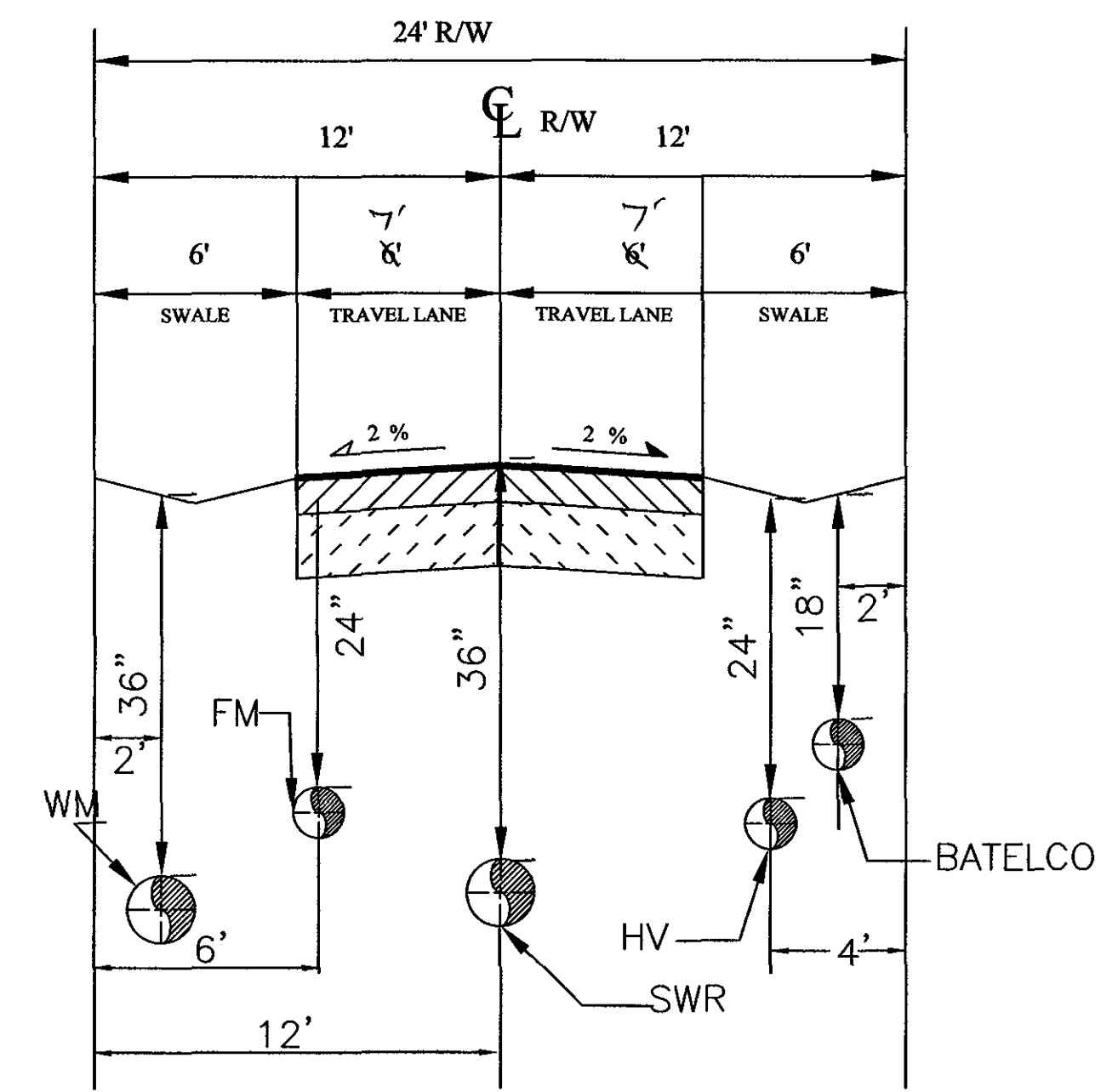
IF SHEET IS LESS THAN 24" X 36" IT IS A REDUCED PRINT. SCALE ACCORDINGLY



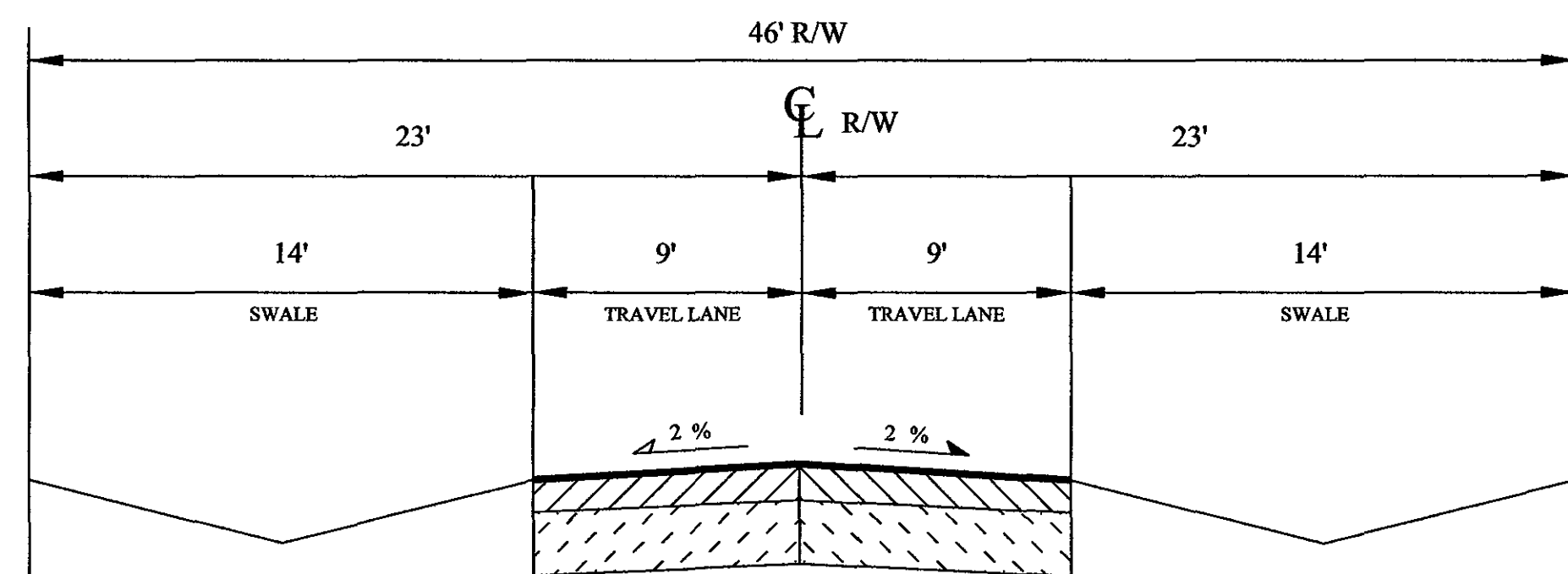
SECTION A
ROADS 1, 2, 4



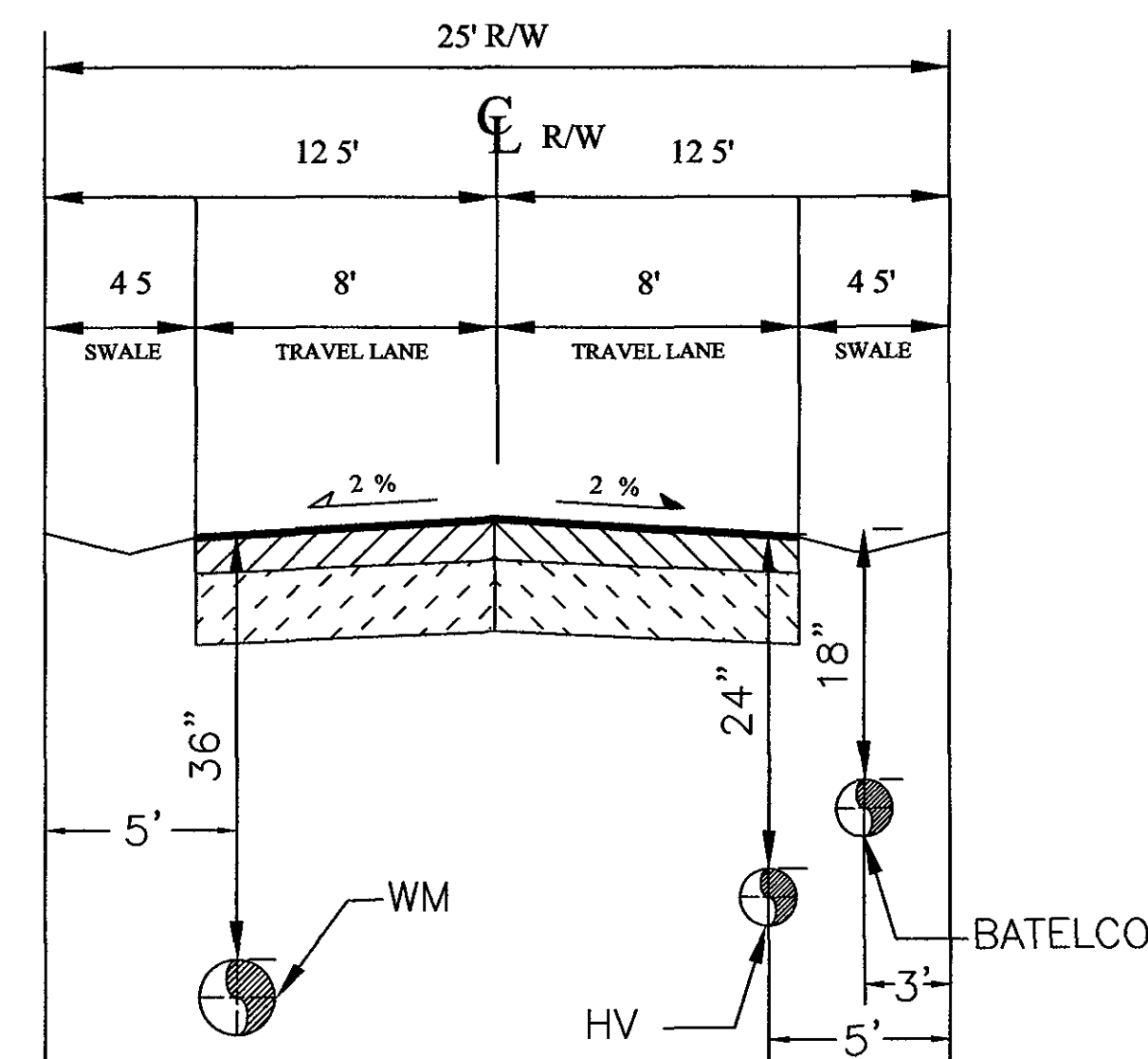
SECTION B
ROADS 6, 7, 8



SECTION C
ROAD 3



SECTION D
ROADS 13-QUEENS HIGHWAY



SECTION E
ROADS 12
PROPOSED PUBLIC MAINS

WM
FM
HV
SWR

CIVIL WORKS APPROVED
SUBJECT TO COMMENTS AS MARKED
Date 13/05/19
Signature [Signature]
Civil Design Section



NO	DESCRIPTION	DATE	BY	NO	DESCRIPTION	DATE	BY
1	DESIGN DEVELOPMENT DRAWINGS	03/12/2019	CTI				

ENGINEER OF RECORD

ISLAND DIMENSIONS DEVELOPMENT COMPANY
Farrington House, Gladstone Road
P. O. Box EE-15636
Nassau, Bahamas
Tel# (242)-341-6318/25
Fax# (242)-368-6312

PREPARED FOR

MR MICHAEL WIENER
4M HARBOUR ISLAND LTD.
HARBOUR ISLAND, BAHAMAS

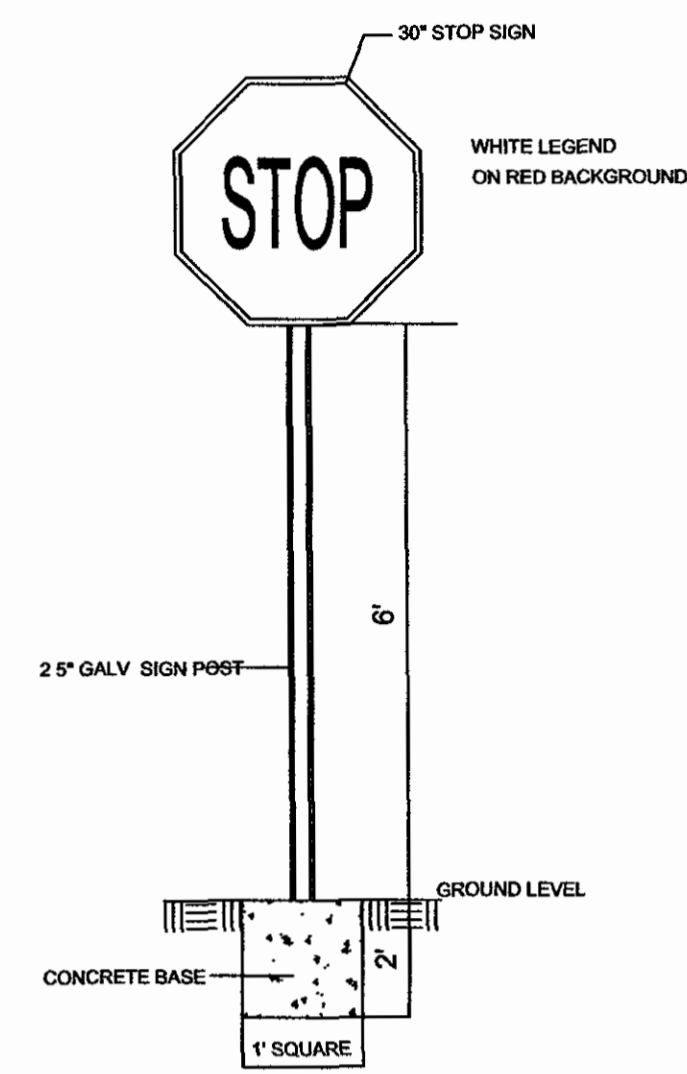
DESIGNED BY CTI
DRAWN BY CTI
CHECKED BY
PROJECT ENGR AF

PROPOSED BRILAND RESIDENCES & MARINA

UTILITY SECTIONS
SCALE: N.T.S.

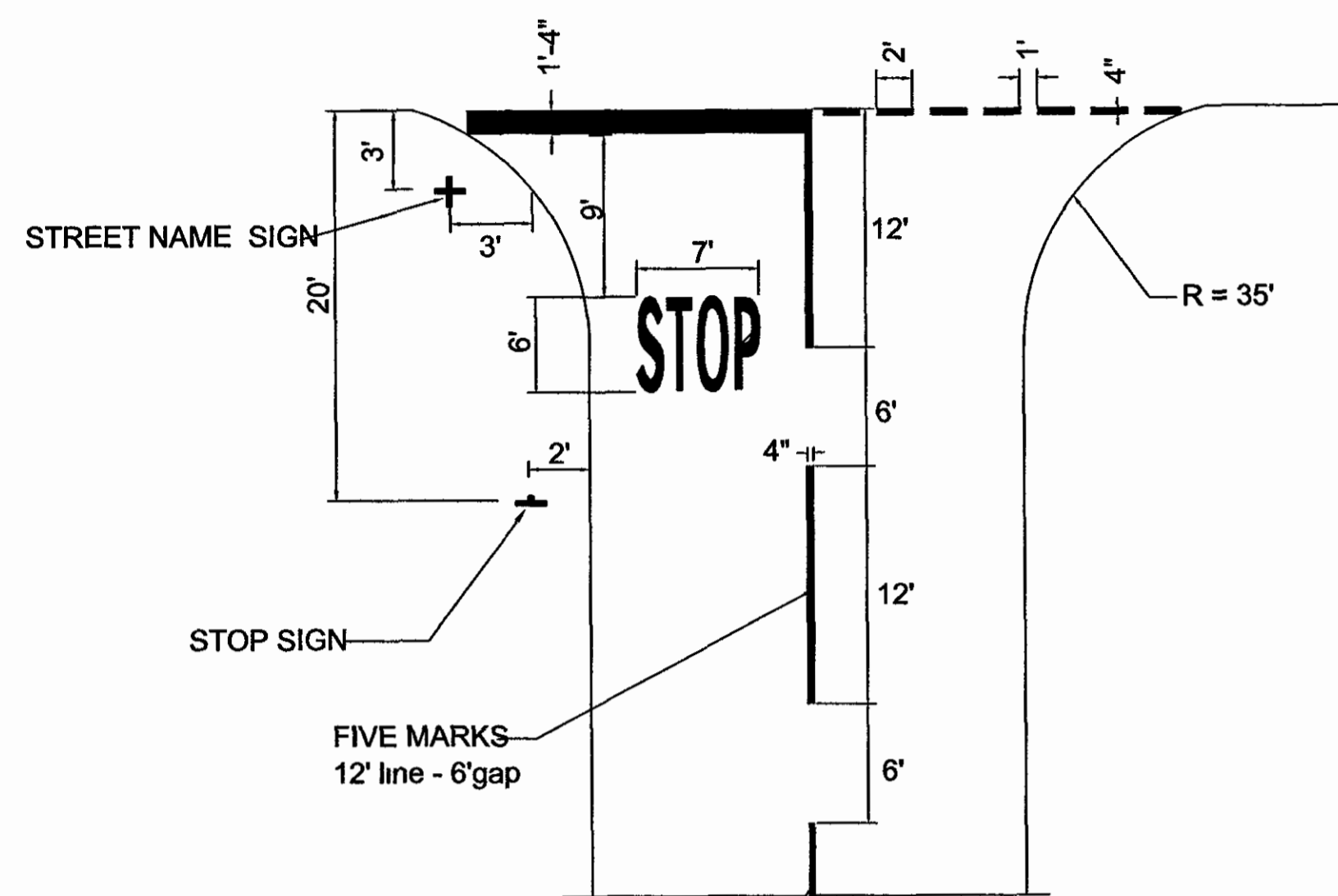
DRAWING NO
B-14

IF SHEET IS LESS THAN 24" X 36" IT IS A REDUCED PRINT SCALE ACCORDINGLY



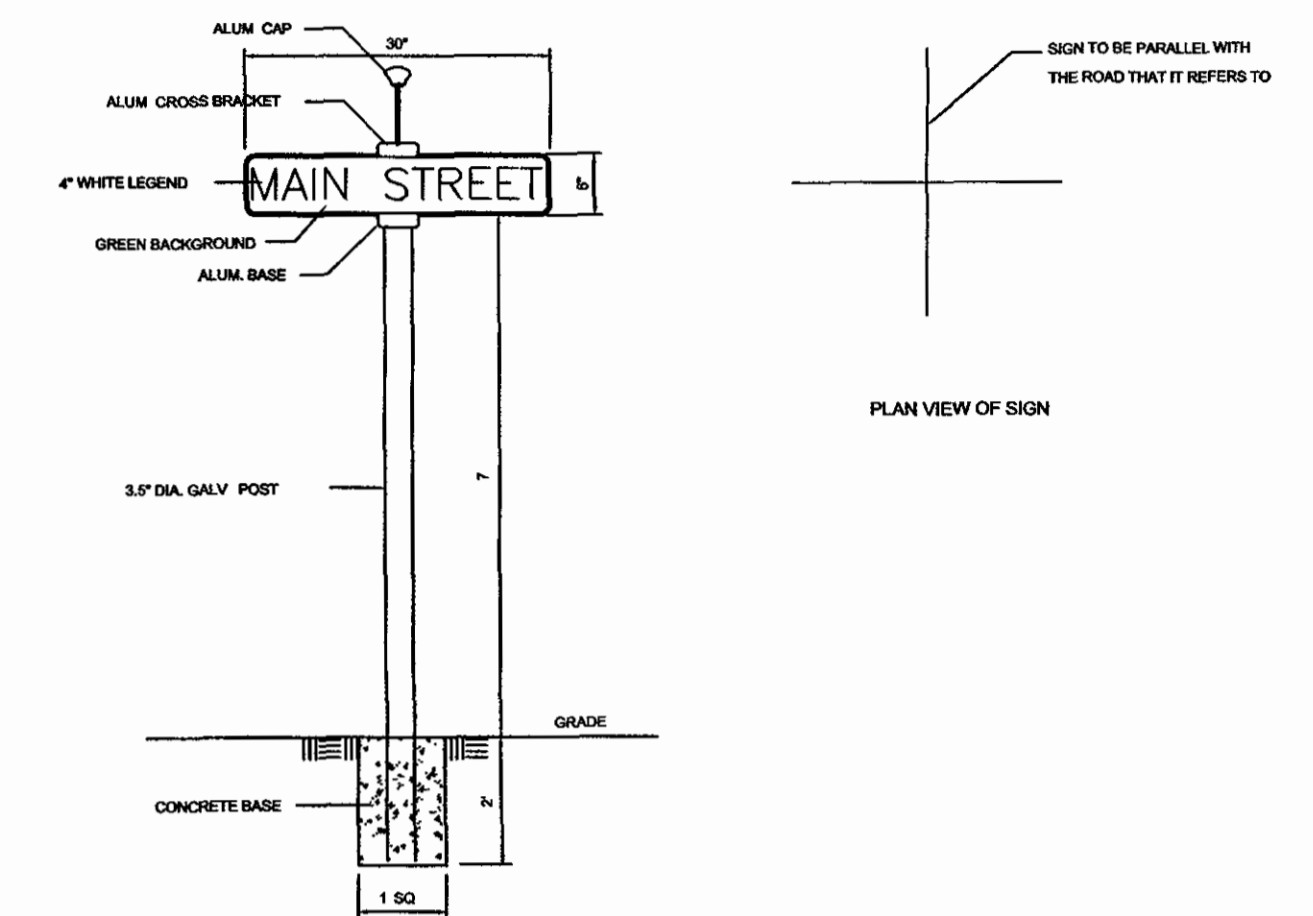
ERECTED SIGN DETAIL
NTS

MINISTRY OF WORKS & UTILITIES
JANUARY 2003



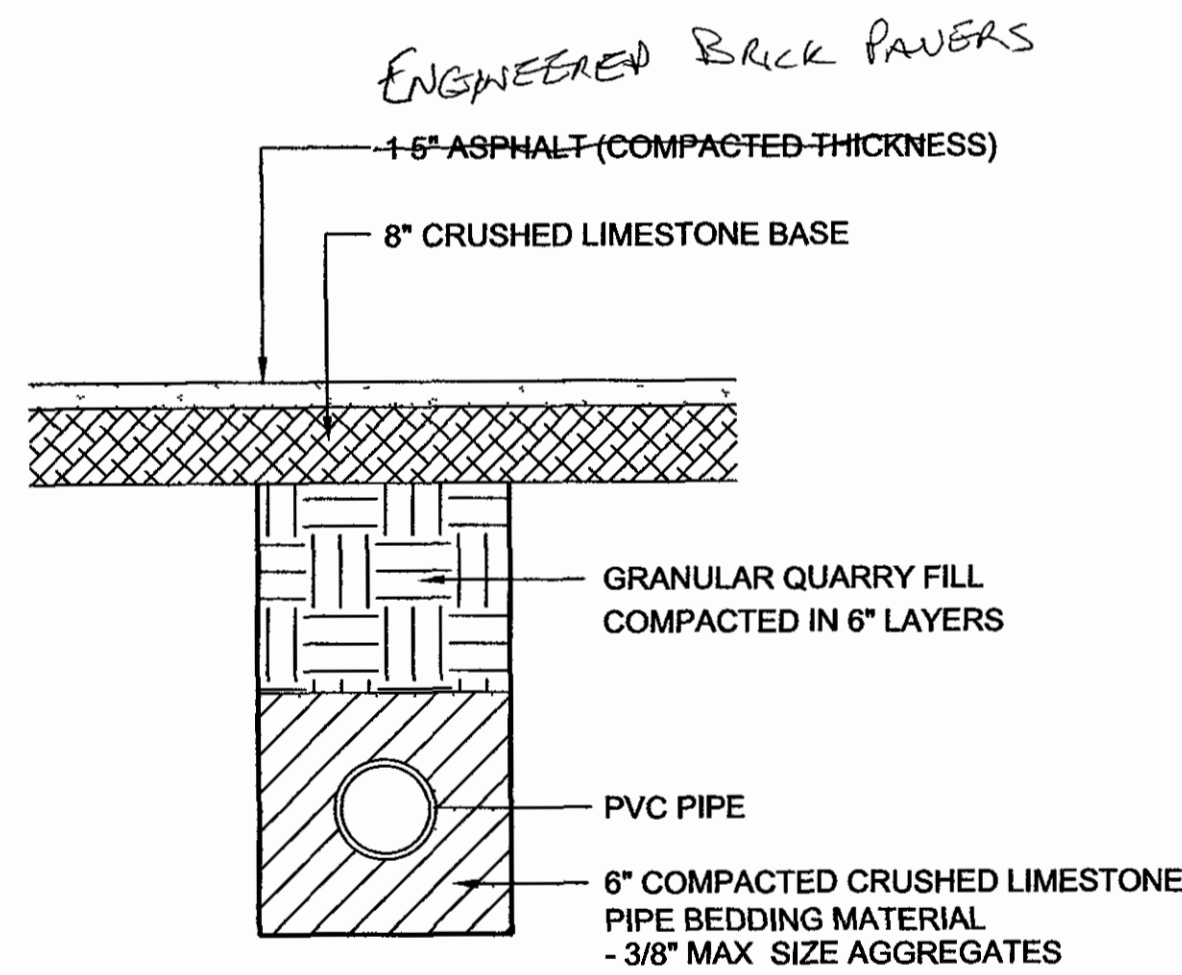
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NTS

MINISTRY OF PUBLIC WORKS
JANUARY 2002



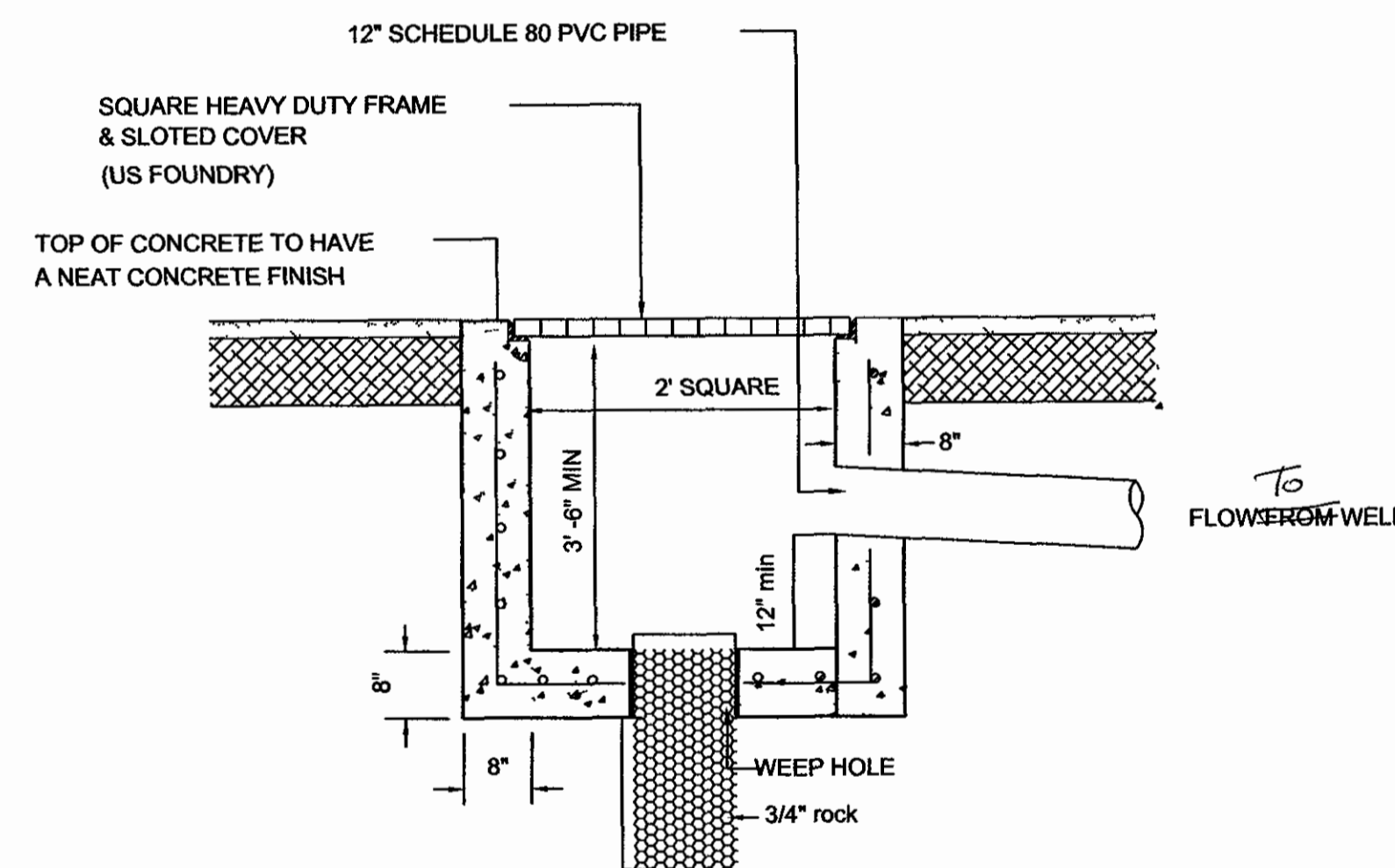
ERECTED STREET NAME SIGN DETAIL
NTS

MINISTRY OF WORKS & UTILITIES
FEBRUARY 2003

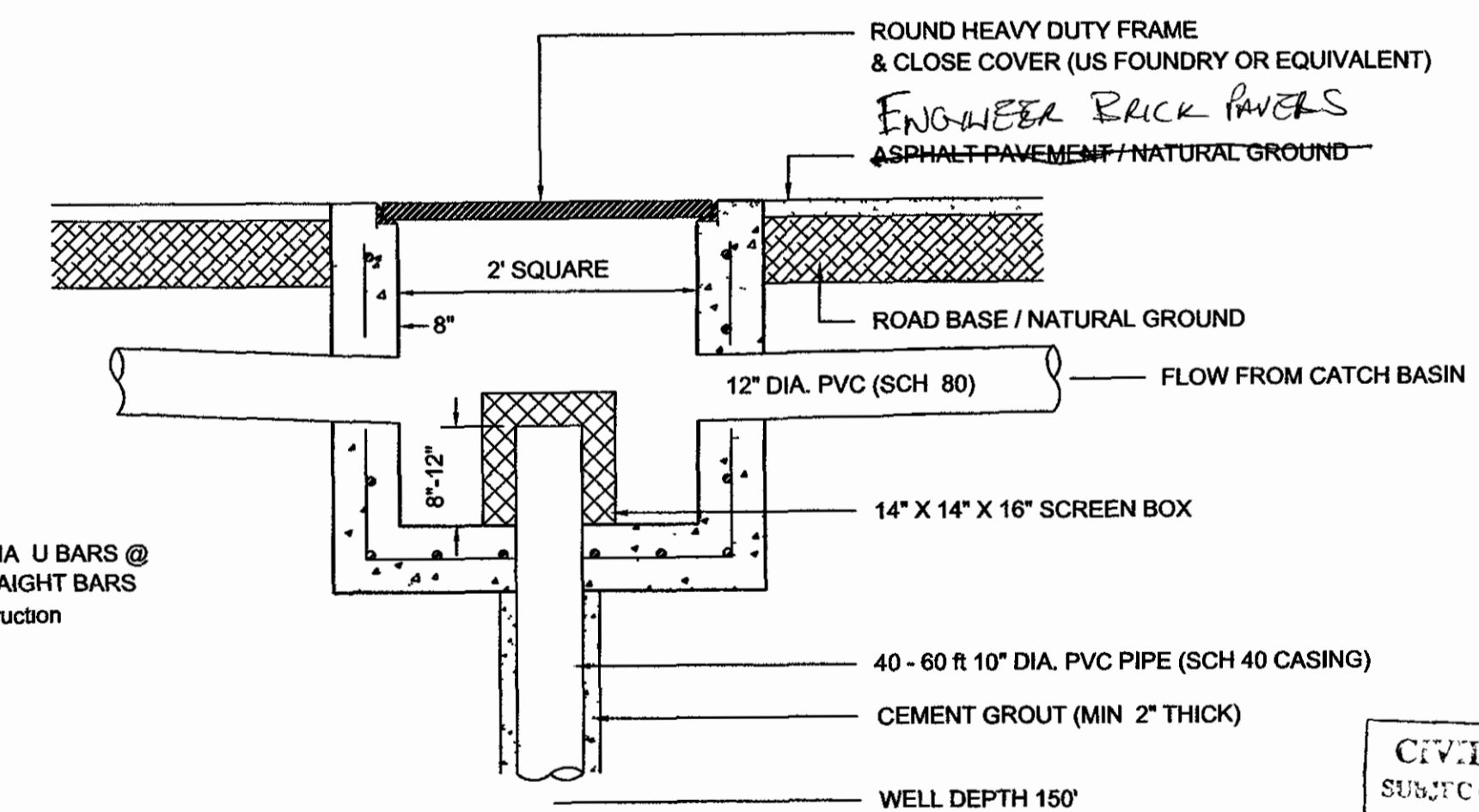


NOTE FOR PVC PIPE < 12" DIA A=6" OTHERWISE AS DIRECTED BY ENGINEER

TYPICAL PIPE TRENCH DETAIL



TYPICAL CATCHPIT/WELL DETAIL



REINFORCED CONC W/ 1/2" DIA U BARS @ 10" C C AND 1/2" DIA HORIZ STRAIGHT BARS @ 10" C C or Concrete Block Construction

CIVIL WORKS APPROVED
SUBJECT TO COMMENTS AS MARKED
Date: 13/05/19
Signature: [Signature]
Civil Design Section



REVISIONS	NO	DESCRIPTION	DATE	BY	NO	DESCRIPTION	DATE	BY	ENGINEER OF RECORD	PREPARED FOR	DESIGNED BY	DRAWN BY	CHECKED BY	PROJECT ENGR	PROPOSED BRILAND RESIDENCES & MARINA	DRAWING NO
	1	DESIGN DEVELOPMENT DRAWINGS	03/12/2019	CTI												
									<p>ISLAND DIMENSIONS DEVELOPMENT COMPANY Farrington House, Gladstone Road P.O. Box EE-15036 Nassau, Bahamas Tel# (242)-341-6318/25 Fax# (242)-368-6312</p>	<p>MR MICHAEL WIENER 4M HARBOUR ISLAND LTD. HARBOUR ISLAND, BAHAMAS</p>	CTI	CTI	AF	<p>ROAD DETAIL SHEET SCALE: N.T.S.</p>	<p>B-15</p>	

IF SHEET IS LESS THAN 24" X 36" IT IS A REDUCED PRINT SCALE ACCORDINGLY