

DUNE CROSSOVER FOR: DESOTO BEACH HOTEL

212 BUTLER AVENUE, TYBEE ISLAND
SAVANNAH, GEORGIA 31328

Index of Drawings

Drawings

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Hurricane Resistant Standards

THE DRAWINGS HAVE BEEN DESIGNED AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH HURRICANE RESISTANT

STANDARDS BASED ON THE AMERICAN SOCIETY OF CIVIL ENGINEERS STANDARD ASCE 7-16 AND THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS PRACTICES OF PLANNING, SIZING, DESIGNING, CONSTRUCTING, AND MAINTAINING RESIDENTIAL BUILDINGS IN COASTAL AREAS. REQUIRES STRUCTURES TO WITHSTAND WIND FORCES RESULTING FROM DESIGN WIND SPEEDS WHERE DESIGN SPEEDS ARE GREATER THAN 120 MPH.

REPORT SUMMARY
LOCATION: TYBEE ISLAND, GEORGIA, 31328
PROJECT: DUNE CROSSOVER FOR DESOTO BEACH HOTEL
LAT: 32.02717
LONG: -80.84404
STANDARD: ASCE/SEI 7-16
RISK CATEGORY: D - DEFAULT (SEE SECTION 11.1.3)
SOL. CASES:
1.65 MPH
10-YEAR MRF 76 MPH
25-YEAR MRF 87 MPH
50-YEAR MRF 95 MPH
100-YEAR MRF 105 MPH

WIND DETAILS
WIND SPEEDS ARE BASED ON 3-SECOND GUST WIND SPEEDS AT 33 FT ABOVE GROUND FOR EXPOSURE C CATEGORY. BASED ON LINEAR INTERPOLATION BETWEEN CONTIGUOUS WIND SPEEDS ARE INTERPOLATED TO 15-MINUTE DURATION WIND SPEEDS CORRESPOND TO APPROXIMATELY A 1.5% PROBABILITY OF EXCEEDANCE IN 50 YEARS (ANNUAL EXCEEDANCE PROBABILITY = 0.00033, MRF = 3,000 YEARS)
SITE IS IN A HURRICANE-PRONE REGION AS DEFINED IN ASCE/SEI 7-16 SECTION 26.2.

DATA SOURCE: ASCE 7 HURRICANE TOOL
ASCE/SEI 7-16, FIG. 26.5-1D AND FIGS. C0.2-1 AND C0.2-4

Code Data

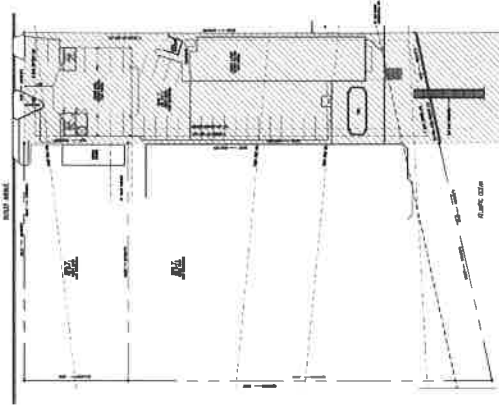
DEPARTMENT OF NATURAL RESOURCES CODES AND REGULATIONS

APPENDIX C
STANDARD CONDITIONS FOR DUNE CROSSOVERS
SHORE PROTECTION ACT D.C.C.A. 12-5-520
STANDARD PERMIT CONDITIONS FOR DUNE CROSSOVERS
ONLY ONE CROSSOVER STRUCTURE SHALL BE ALLOWED ON A PARCEL. IN CONSIDERING THE DESIGN AND ROUTING OF A CROSSOVER, THE SHORTEST ROUTE OVER THE LOWEST AREA OF THE DUNES SHALL BE PLOTTED TO MINIMIZE IMPACTS TO THE SAND SHARING SYSTEM. FOR NEW CONSTRUCTION, NO DECKS OR WALKING PLATFORMS WILL BE APPROVED IN THE JURISDICTIONAL AREA. PREVIOUSLY PERMITTED AND EXISTING DECKS AND WALKING PLATFORMS WILL BE REMOVED AND RESTORED TO ORIGINAL CONDITION. THE APPLICANT REQUESTING THE STRUCTURE MUST OWN 100% OF THE PRIVATE LANDS THROUGH WHICH THE STRUCTURE CROSSES OR HAVE THE EXPRESS WRITTEN PERMISSION OF THE OWNER.
THE FOLLOWING STANDARD CONDITIONS SHALL APPLY TO DUNE CROSSOVERS:

1. THE HEIGHT OF THE STRUCTURE SHALL BE AT LEAST "JF" ABOVE THE GRADE OF THE SAND DUNE AND THE WIDTH SHALL BE NO GREATER THAN 6' AS MEASURED FROM THE OUTSIDE POSTS, TO ALLOW FOR SAND MOVEMENT OR ACCRETION IN THE DRIVING DUNE FIELD.
2. THE TERMINAL POINT OF THE CROSSOVER SHALL BE SEAWARD OF THE SEAWARD MOST DUNE BUT SHALL NOT ENDOURCH SEAWARD OF THE ORDINARY HIGH WATER LINE IN THE ACTIVE INTERTIDAL BEACH.
3. IF THE SHORELINE ERODES AND THE CROSSOVER EXTENDS SEAWARD OF THE ORDINARY HIGH WATER LINE, IT WILL BE THE RESPONSIBILITY OF THE APPLICANT TO MAKE THE PERMITTED IMPROVEMENTS BACK TO THE DRY SAND BEACH, LANDWARD OF THE ORDINARY HIGH WATER LINE.
4. THE STRUCTURE SHALL BEGIN AT THE TOE OF THE LANDWARD MOST DUNE.
5. HEAVY EQUIPMENT IS PROHIBITED IN THE SHORE PROTECTION ACT JURISDICTION. THIS PROJECT MUST BE CONSTRUCTED USING HAND TOOLS.
6. CLEARING AND GRADING OF DUNES IS NOT AUTHORIZED IN CONJUNCTION WITH THE CONSTRUCTION OF THIS PROJECT; STOCKPILING OF MATERIALS IN THE DUNES IS PROHIBITED.
7. VEGETATION MAY BE CLEARED ONLY FOR THE WIDTH OF THE PERMITTED STRUCTURE. THE MAINTENANCE TRIMMING OF JURISDICTIONAL VEGETATION WILL ONLY BE ALLOWED WITHIN 6' OF THE SIDES OF THE STRUCTURE AND 7' HIGH OVER THE STRUCTURE.
8. NO MOTORIZED VEHICLES ARE PERMITTED ON THE CROSSOVER STRUCTURE, EXCEPT FOR MOTORIZED WHEELCHAIRS FOR HANDICAPPED PERSONS.
9. ANY SAND NEEDED RESTORE THE SITE TO PRE-PROJECT VEGETATED AND TOPOGRAPHIC CONDITIONS, OR FOR BACKFILLING, MUST BE BEACH QUALITY AND OBTAINED FROM AN UPLAND SOURCE AND NOT FROM THE BEACH.
10. ENTIRE PROJECT SHALL BE WITHIN THE STATE SHORE PROTECTION ACT JURISDICTION PER DEPARTMENT OF NATURAL RESOURCES CODES AND REGULATIONS.

KEY PLAN

BUTLER AVENUE



UNIT LOG 11021



SMITH and VANDENBULCK
ENGINEERING and LANDSCAPE ARCHITECTURE
A DIVISION OF DAVE AND BOBBI
3. DISTRICT PROFESSIONAL
SAVANNAH, GEORGIA 31408
PHONE: 912-354-5249
FAX: 912-352-8429



DESOTO BEACH HOTEL - DUNE CROSSOVER
212 BUTLER AVENUE, TYBEE ISLAND
SAVANNAH, GEORGIA 31328
Drawing: T1.1
DATE: 08-07-19
DRAWN BY: UHF
CHECKED BY: CFA
PROJECT NO: 2019.036
TITLE SHEET

T1.1

SHEET NO.

S&V SMITH and VANDENBULCK
 ENGINEERING and LANDSCAPE ARCHITECTURE
 A DIVISION OF SAV ENGINEERING
 5 COLLETT DRIVE, SUITE 100
 SAVANNAH, GEORGIA 31408
 PHONE: 912-524-5249
 FAX: 912-522-8129



DESOTO BEACH HOTEL - DUNE CROSSOVER
 212 BUTLER AVENUE, TREE ISLAND
 SAVANNAH, GEORGIA 31328

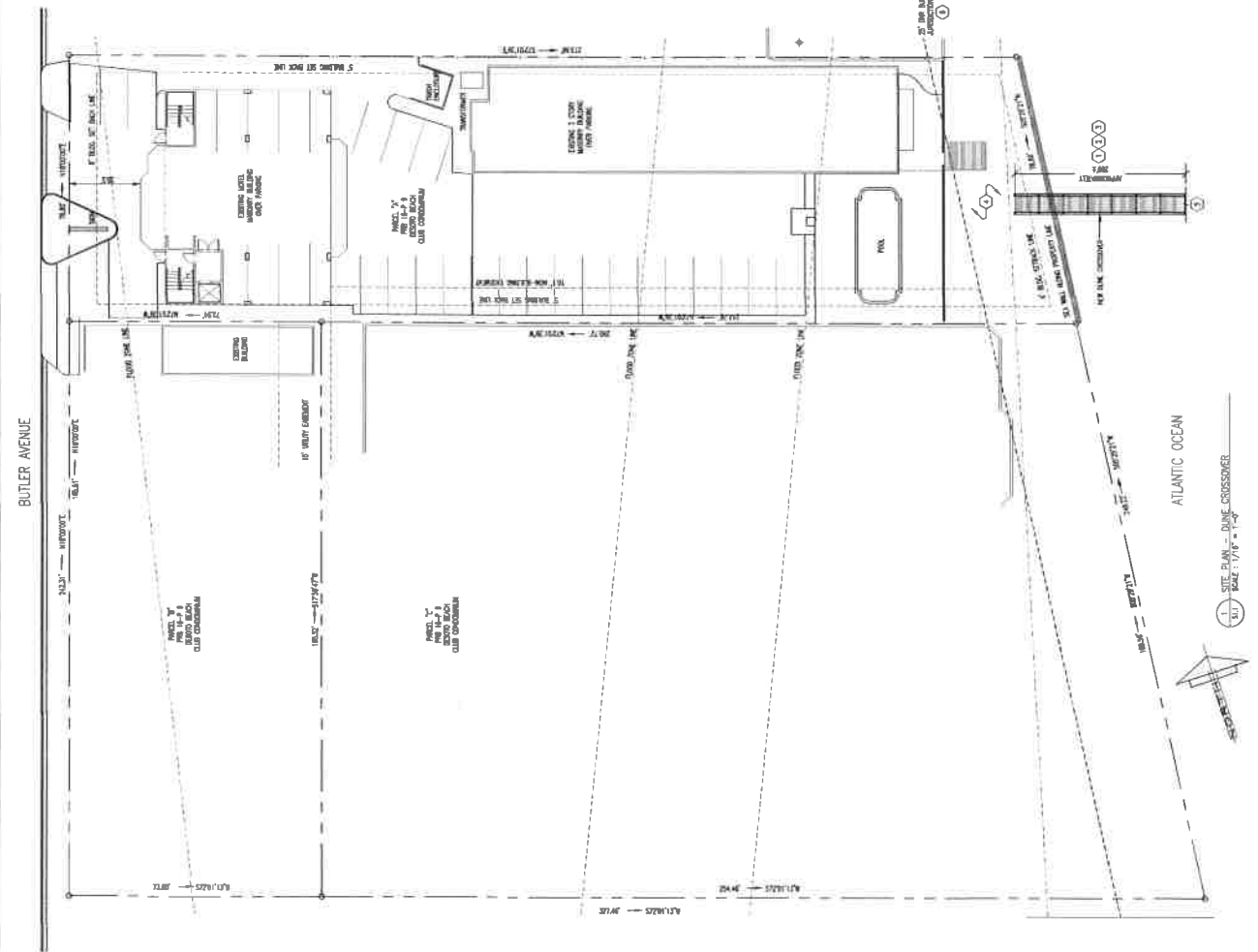
PROJECT NO. 20181035
 DATE 08-07-19
 DRAWN BY BMF
 CHECKED BY
 CITY

S1.1
 SHEET NO.

SITE PLAN NOTES

1. ALL UTILITIES, EXISTING AND PROPOSED, TO BE CONTROLLED BY CONSTRUCTION STOPS AND SIGNS.
2. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES (TYPICAL).
3. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES (TYPICAL).
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GENERAL NOTE:
 CONTRACTOR SHALL MAINTAIN ACCESS TO ALL UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES (TYPICAL).

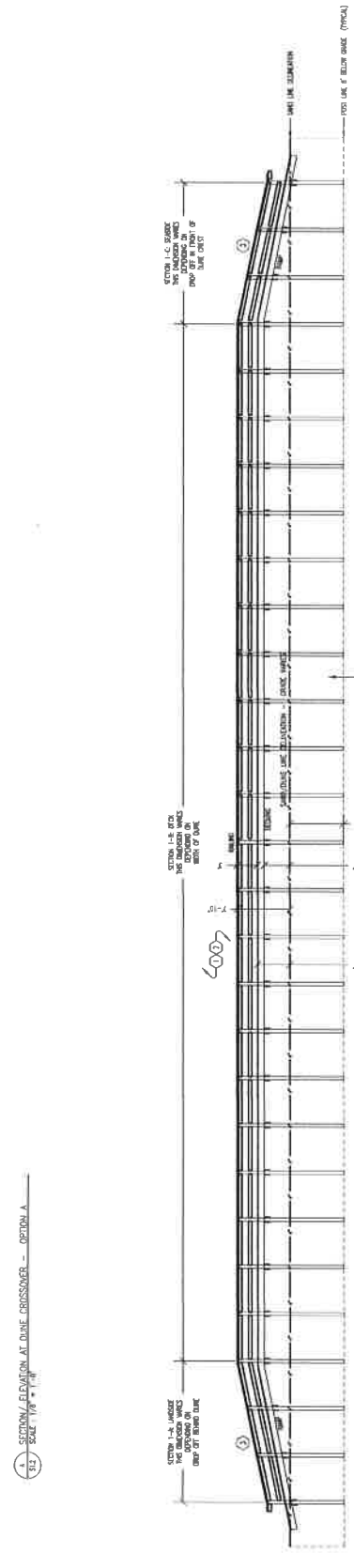
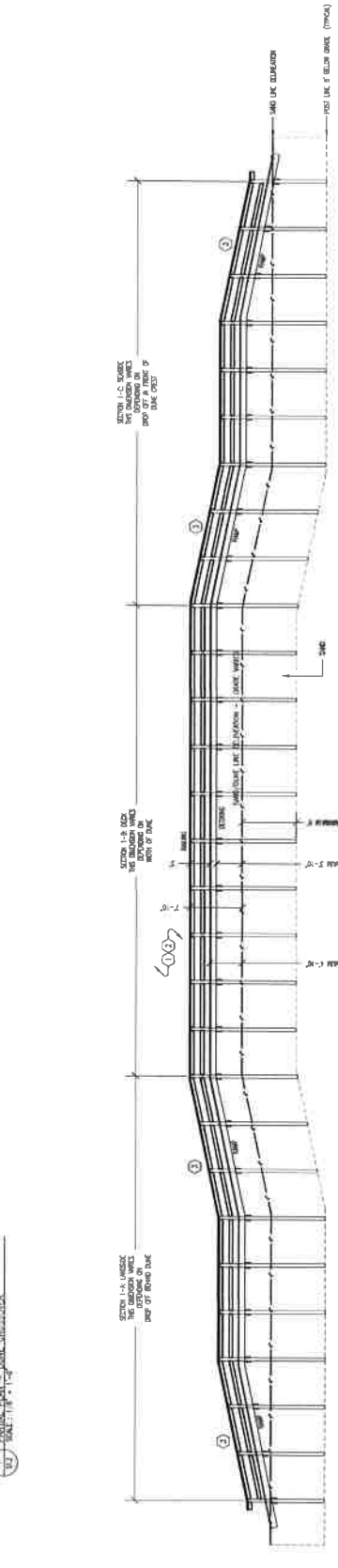
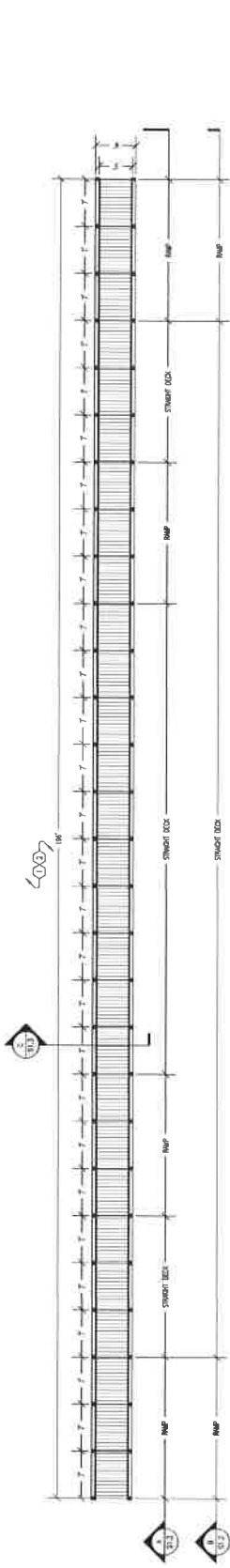


SEE PLAN - DUNE CROSSOVER
 1/4" = 1' - 0"



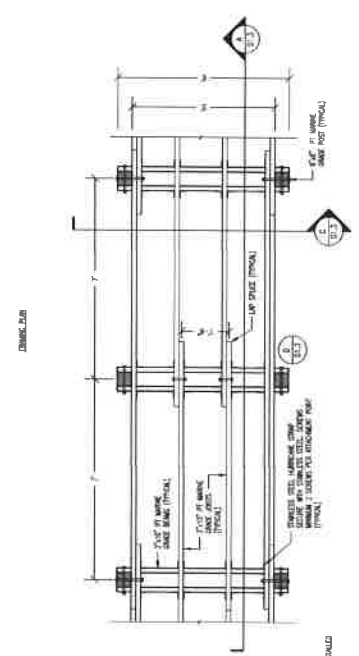
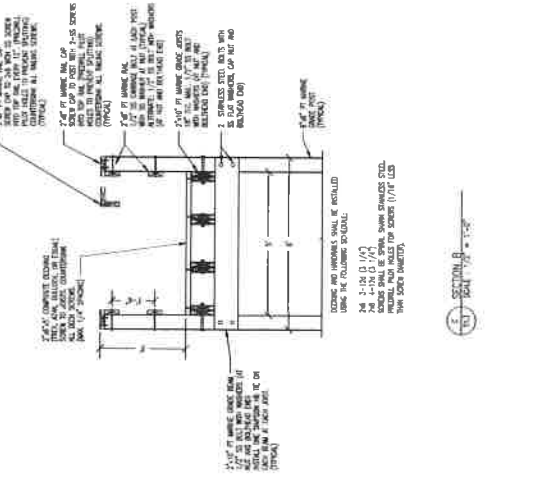
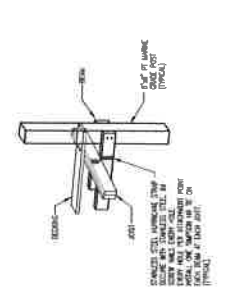
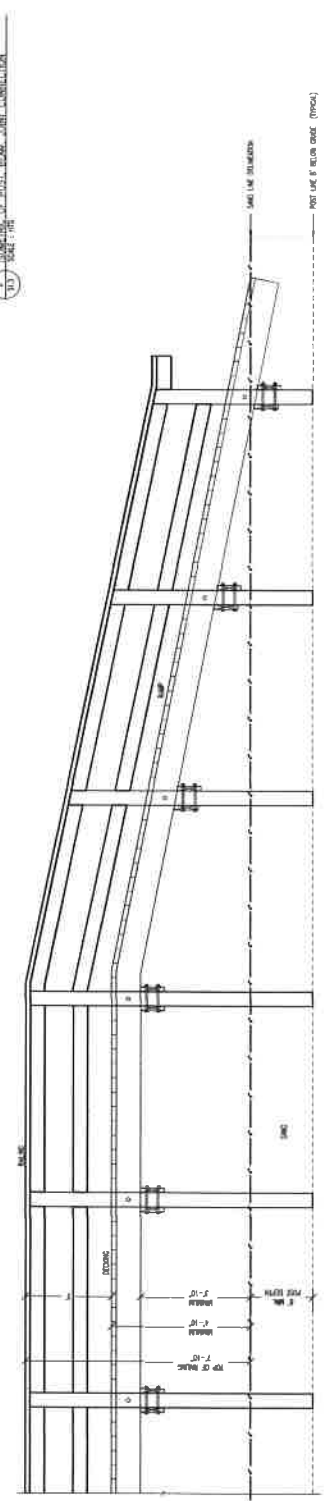
CROSSOVER NOTES

1. THE DUNE CROSSOVER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DUNE CARE AND RESTORATION ACT (16 CFR 117.10) AND THE DUNE CARE AND RESTORATION REGULATIONS (16 CFR 117.10-117.10-11).
2. THE DUNE CROSSOVER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DUNE CARE AND RESTORATION ACT (16 CFR 117.10) AND THE DUNE CARE AND RESTORATION REGULATIONS (16 CFR 117.10-117.10-11).
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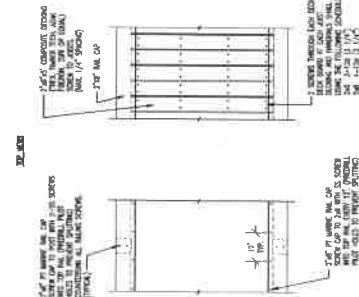


GENERAL NOTE:
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES INVOLVED IN THE CONSTRUCTION AND OPERATION OF THE DUNE CROSSOVER.

GENERAL NOTES:
 1. REFER TO ALL OTHER DRAWINGS IN THIS PROJECT FOR MATERIALS, FINISHES, AND CONSTRUCTION DETAILS.
 2. ALL DIMENSIONS ARE UNLESS OTHERWISE NOTED.
 3. ALL MATERIALS SHALL BE APPROVED BY THE ARCHITECT AND ENGINEER PRIOR TO CONSTRUCTION.
 4. ALL MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S AND APPLICABLE CODES AND REGULATIONS.

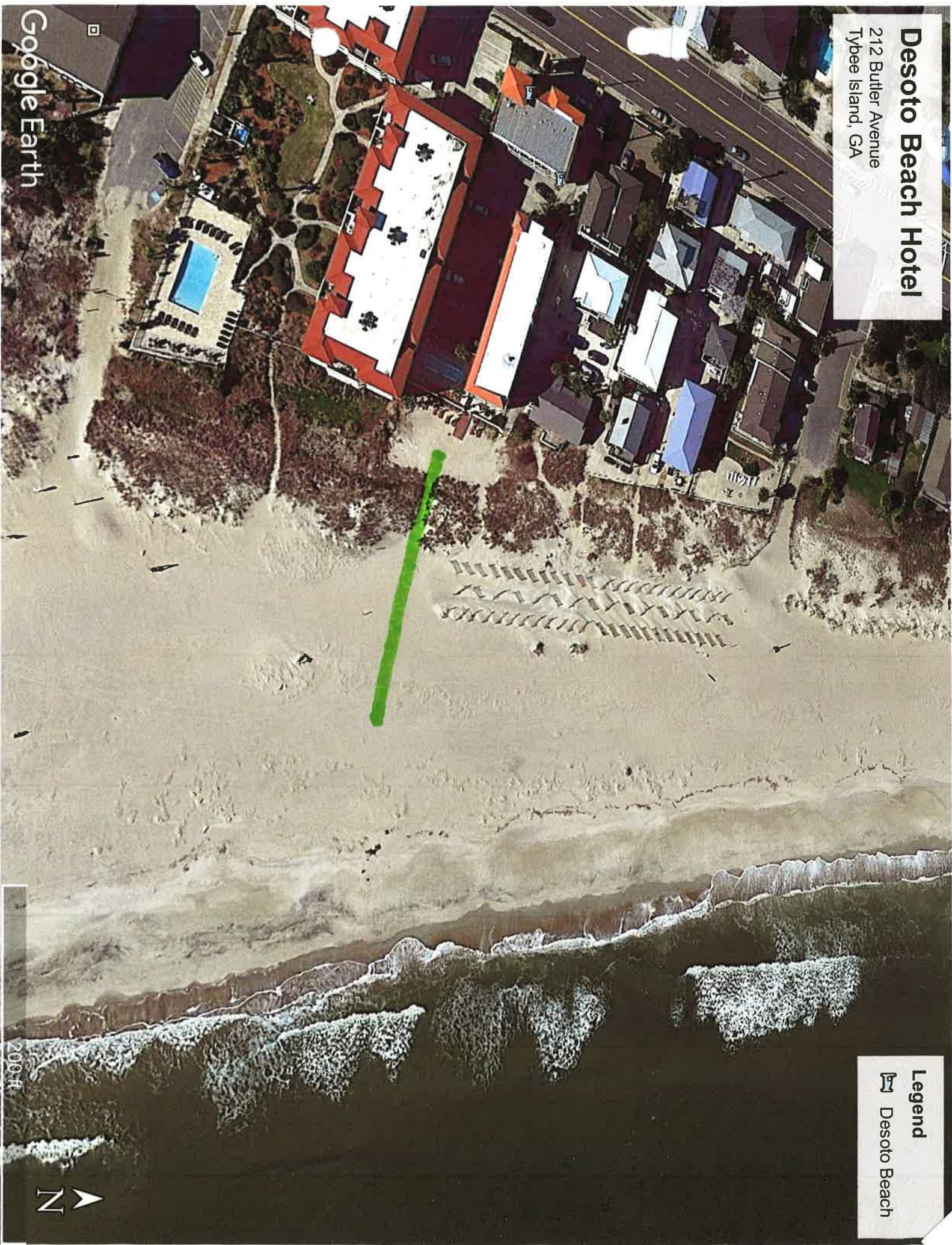


- GENERAL FRAMING NOTES:**
1. ALL FRAMING SHALL BE 2x6 UNLESS OTHERWISE NOTED.
 2. ALL FRAMING SHALL BE TYPICAL UNLESS OTHERWISE NOTED.
 3. ALL FRAMING SHALL BE TYPICAL UNLESS OTHERWISE NOTED.
 4. ALL FRAMING SHALL BE TYPICAL UNLESS OTHERWISE NOTED.
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 7. ALL FRAMING SHALL BE TYPICAL UNLESS OTHERWISE NOTED.



Desoto Beach Hotel

212 Butler Avenue
Tybee Island, GA

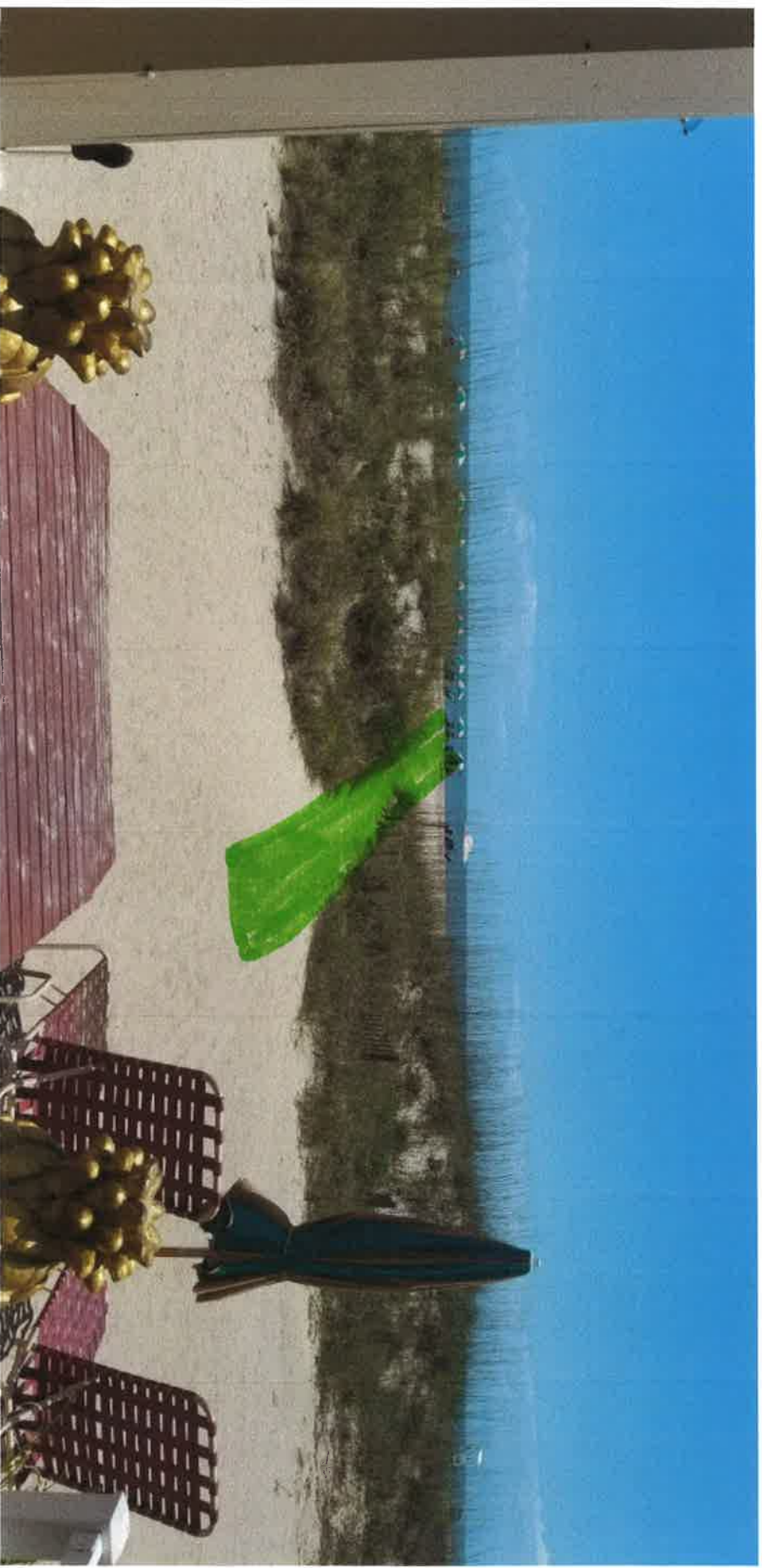


Legend
Desoto Beach

Google Earth



2009-8



 DUNE CROSSOVER