

December 12th, 2018

Nicki Van Vonno Growth Management Director Martin County Growth Management 2401 SE Monterey Road Stuart, FL34996

## RE: Major Site Plan Application Treasure Coast Classical Academy Project #D054-005 – Resubmittal, Comment Response and Section 10.2.D.5 (f) Request

Nicki,

Please accept this letter and the contents within this package as the resubmittal of the Treasure Coast Classical Academy (Project #D054-005) Major Site Plan Application and the official request to carry out Section 10.2.D.5 (f) of the Martin County Land Development Regulations.

Section 10.2.D.5 (f) states, "At any time, the applicant may request that the County Administrator forward the application to the decision maker for review and final action. Upon such a request by the applicant the applicant shall not be entitled to any postponements or continuances, unless the applicant can show extraordinary circumstances as provided by law for the granting of a postponement or continuance."

At this time, we respectfully request that the Treasure Coast Classical Academy Major Site Plan Application be forwarded for review and final action of the LPA and BoCC hearing boards.

In addition to this request, please review the following pages for the individual responses to the comments on the staff report issued on November 21<sup>st</sup>, 2018. The revisions requested have been made and the corresponding documentation is provided within this package. Please review.

Should you have any additional comments or information please feel free to contact me.

Thank you,

Ella Donaho Taylor

Director of Land Planning Medalist Building Group, LLC

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<u>F. Determination of compliance with Comprehensive Growth Management Plan requirements – Growth Management Department</u>

#### Item #1: Open Space

Open space is defined as, "The portion of a development that is permeable and remains open and unobstructed from the ground to the sky, specifically excluding parking areas and sidewalks, whether permeable or impermeable. MARTIN COUNTY, FLA., CGMP SECTION 2.2. (2016) Development within the RE-1/2A, Residential Estate District, requires a minimum of 50 percent of the gross land area as open space. MARTIN COUNTY, FLA., LDR TABLE 3.12.1., SECTION 3.12. (2013)

RESPONSE: Please see revived Sheet C500 for the revised open space calculations.

<u>G. Determination of compliance with land use, site design standards, zoning, and procedural requirements - Growth Management Department</u>

#### **Item #1:** Administrative Items

Unless otherwise specified in the LDR, an application shall be submitted in a form approved by the County Administrator and made available to the public. At a minimum, it shall include sufficiently detailed and documented information for staff to make the required findings of compatibility with adjacent land uses and consistency with the Comprehensive Plan, the LDR, and the Code. MARTIN COUNTY, FLA., LDR SECTION 10.2.B.5. (2017)

#### **RESPONSE:**

- The project name on the application has been verified as 'Treasure Coast Classical Academy'. Please see application in package with corrected name.
- A copy of the Sunbiz webpage for Driftwood Cay of Stuart, LLC that establishes the authority of Jeremy Lemaster to represent the owner entity as the Managing Member.
- The notarization on the 'certification of no property transfer' document as been corrected as the document was re-executed and re-notarized.
- No response has been received from the utility companies in regard to the availability of cable/TV/internet utilities. However, requests have been sent out to obtain these letters, these requests were provided in the initial submittal and are provided again in this submittal. Additionally, a request letter was also sent out to Comcast since no response has been received yet from AT&T. Please see attached letters.
- The legal access was previously established by Driftwood Cay of Stuart LLC for construction of the prior approved subdivision. No other offsite areas are to be used. Please see attached the Driveway Access Easement for Lot D1.



#### **Item #2:**

Financial Disclosure Affidavit

The applicant must disclose the names and addresses of each and every person or entity with any legal or equitable interest in the property of the proposed development, including partners, members, trustees, and stockholders and every person or entity having more than a five percent interest in the property or proposed development. MARTIN COUNTY, FLA., LDR SECTION 10.2.B.3.b. (2017).

RESPONSE: Acknowledged. Please see attached revised Disclosure of Interest Affidavit that has added the contract buyer, Charter Schools Development Group LLC. The property remains under the sole ownership of Driftwood Cay of Stuart LLC until the development order has been issued.

#### **Item #3:** Posting of Signs

Not more than ten days after a development application has been determined to be complete, the applicant shall post the property that is the subject of the application with a waterproof sign(s) entitled "Notice of Development Application" or "Notice of Zoning Change" as appropriate which describes the nature of the development request, the name of the project (if any), the telephone number where additional information may be obtained, and the County assigned project or application number. MARTIN COUNTY, FLA., LDR, SECTION 10.6.B. (2016).

RESPONSE: The sign was originally posted on 12-06-18. However, the project number on the sign and the height of the lettering of the project number was incorrect. The sign will be reposted by 12-14-18 with the correct project number and lettering height. The sign posting certification will be forwarded via email to the project coordinator, Catherine Riiska, once this is completed.

#### **Item #4:** List of Property Owners

A list of all owners of real property located within a distance of 500 feet of the boundaries of the affected property, required to be notified pursuant to Section 10.6.E.1., LDR, Martin County, Fla. (2016), shall be provided by the applicant to the County Administrator no later than two weeks prior to the scheduled time of the public hearing. This list shall be based on the most recent tax roll available and must be certified as to its authenticity and completeness by an attorney at law or title company. MARTIN COUNTY, FLA., LDR, SECTION 10.6.

RESPONSE: Please see attached list of property owners within a distance of 500 feet of the boundaries of the affected property.

#### **Item #5:** Required Permits

No final site plan shall be approved until all applicable local, state, and federal approved permits are submitted and reviewed by the County Administrator. If an application is made to any permitting agency for a modification to a permit that was required to be issued prior to final site



plan approval, the application for the permit modification must be submitted concurrently to Martin County. MARTIN COUNTY, FLA., LDR, SECTION 10.9.A. (2012)

The applicant has elected 'Option 1' regarding Agency permit submittal for review for consistency. This requires that all applicable authorizations be provided for a consistency review prior to final approval of this application pursuant to Section 10.9.A.1., LDR, Martin County, Fla. (2012).

Pursuant to Section 10.9.A., LDR, Martin County, Fla. (2012), staff review of other agency permits may proceed either prior to development order approval, or after development order approval but before scheduling the pre-construction meeting and subject to an additional review fee.

RESPONSE: The applicant chooses OPTION TWO for this application. All authorizations will be submitted after development order approval, but prior to scheduling the preconstruction meeting along with the associated fees.

Item #6:

Maximum Height

The maximum height of habitable buildings and structures shall be four stories or as specifically set forth in each zoning district in Table 3.12.1 or elsewhere in the LDR, whichever is lower. For purposes of this section, building height means the vertical distance between (1) the lowest permissible elevation above the existing grade which complies with finished floor elevation requirements as established by flood maps, the Health Department, or building code, along the front of a building and (2) either the highest point of the coping of a flat roof, the deck line of a mansard roof, or the mean height level between eaves and ridge for gable, hip and gambrel roofs. For buildings placed along the oceanfront, the oceanside of the building may be considered the front for height measurement purposes. MARTIN COUNTY, FLA., LDR SECTION 3.14.A (2005)

Development within the RE-1/2A, Residential Estate District, stipulates a maximum structure height of 30 feet. MARTIN COUNTY, FLA., LDR TABLE 3.12.1., SECTION 3.12. (2013)

Exceptions to the maximum height standards set forth in Table 3.12.1. are permittable pursuant to the criteria in Section 3.14.B., LDR, Martin County, Fla. (2005).

RESPONSE: Please see revised Sheet C500 for revised site data stating a max height of 30'. Please also see revised building elevations for requested scale, dimensions, and labels.

**Item #7:** Plan Consistency

Consistency required. No development, including clearing, excavation of soil, or alteration of vegetation, shall be commenced or undertaken in Martin County that is inconsistent with the



Comprehensive Plan, the LDR and the Code. It shall at all times be the applicant's responsibility to demonstrate consistency with the goals, objectives and policies of the Comprehensive Plan, the LDR and the Code. MARTIN COUNTY, FLA., LDR SECTION 10.1.F. (2017)

## RESPONSE: Please see included standalone "Final Site Plan" set with sheets titled 1 of 4 etc. Please also see included proposed floor plans

#### Item #8: Final Site Plan Data

- 1. Please provide separate data tables for open space and pervious area and include the adjustments requested in Item #1, Section F, of this report.
- 2. Please provide the "maximum allowed building height 30 feet" and provide the "Proposed Height 30 feet".
- 3. Please correct the required setbacks to reflect those minimums required by the RE-1/2A Zoning (Front, rear, side are 25', 15', 15', respectively)

# RESPONSE: Please see revised Sheet C500 for requested data tables, revised maximum and proposed building height, and corrected setbacks.

#### Item #9: Final Site Plan Graphics

- 1. Please correct the land use shown adjacent to the northeast boundary of the site to rural density, which is currently incorrectly labeled as estate density.
- 2. Please dimension the school building setback from the building plane proposed closest to the nearest property line. The currently shown 65.50' dimension on Sheet C551 does not reflect the minimum provided structure setback.
- 3. Please label the currently shown square structure shown near the project's northwestern boundary at Cove road. If not proposed as part of this development, please remove from the final site plan graphics.
- 4. Please provide the following typical details on the final site plan:
  - a. Standard parking space, including dimensions and pavement markings
  - b. Handicapped parking space, including dimensions, pavement markings, and signage
  - c. Dumpster enclosure
  - d. Bike racks
- 5. Please dimension all major site plan features, including the following:
  - a. Dimension the lot width at the Cove Road frontage.
  - b. Dimension landscaping islands within the parking area and all perimeter landscape buffer widths.
  - c. Dimension the sidewalk that leads through the parking lot and to Cove Road. All sidewalks are required to have a minimum 6' unimpeded width.
  - d. Dimension the school building envelope, basketball court, tot lot, retention areas

RESPONSE: Please see revised sheet C500 for corrected adjacent land use. Please see Sheet C551 for the minimum dimension from building to property line of 49.4'. Please see



revised Sheet C500 for annotation of the square as a concrete utility pad. Please see Sheet C550 for Cove Road frontage width. Please see Sheet C550 and C551 for sidewalk, building, basketball court, tot lot, and retention.

#### **Item #10:** Parking Rate

Off-street parking spaces shall be provided in accordance with the standards contained in the following Table 4.14.1. Land uses shall be as defined in section 3.3 of Article 3, Zoning Districts of the Martin County Land Development Regulations (LDR). MARTIN COUNTY, FLA., LDR SECTION 4.624. (2009). Pursuant to Table 4.14.1., Section 4.624., LDR, Martin County, Fla. (2009), the parking rate for education institutions requires 2.5 spaces per each elementary or junior high classroom, and 12 spaces per each high school classroom, and 1 space for each teaching, administrative or staff.

RESPONSE: Please see Data Table on Sheet C 500. As mentioned during the joint workshop, it is our understanding that the FBC is the controlling regulation. This regulation states that the provided parking for education facilities is 1 space per faculty or staff personal, 1 space per 100 students for K-10<sup>th</sup> and 1 space per 10 students for 10<sup>th</sup>-12<sup>th</sup>. Please also see provided proposed floor plans.

**Item #11:** Standards for Specific Use – Educational Institution

The application must demonstrate compliance with the following development standards applicable to the proposed use:

The applicant for the institution shall submit a description of anticipated service areas and projected enrollment and relate same to a development plan explaining:

- 1. Area to be developed by construction phase.
- 2. Adequacy of site to accommodate anticipated enrollment, recreation areas, off-street parking and pedestrian and vehicular circulation on site including loading and queuing of school bus traffic.
- 3. Safety features of the development plan. MARTIN COUNTY, FLA., LDR SECTION 3.69.A. (2003)

Areas which abut residential districts and accommodate active recreation, shall provide a Type 2 bufferyard pursuant to Article 4, Division 15, Landscaping, Buffering and Tree Protection. MARTIN COUNTY, FLA., LDR SECTION 3.69.E. (2003)

The educational institution shall have a structure designed to meet state requirements to serve as an emergency evacuation shelter. MARTIN COUNTY, FLA., LDR SECTION 3.69.F. (2003)

#### **RESPONSE:**



- 1. Service areas within the school will include ESE/Special Educations. Maximum enrollment of the school will be 1034 students, with approximately 515 students for the 1st year.
- 2. The facility is sized to accommodate up to 1034 students based on state requirements for public schools and maximum student counts per room and grade. K-3 max 18 per room, 4th 8th max 22 per room, 9th 12th max 25 per room. The current plan is designed to include ample offsite parking for the school and any school events, exceeding the state requirement for public schools parking by roughly 40%. Additionally, the design allows for all traffic to queue onsite during drop-off and pickup times. Pedestrian circulation on site is accommodated by a series of code regulated sidewalks and crosswalks. Dropoff and pick-up activity is limited to a designated area for those activities before and after school. Any drop-off or pick-up activity after school starts is done through the main parking lot and school entrance with the standard student checkout procedure.
- 3. The plan includes designated drop-off and pick-up areas, monitored and directed by trained staff. The specific drop-off/pick-up queuing lane is separate from the parking area, keeping traffic to the perimeter of the site. All play fields are fenced and only accessible through the interior of the school or one way exit gates located directly adjacent to the school. All exterior doors are alarmed, and security cameras are located around the entire perimeter of the building, play fields, all entrances/exits, stairwells and all hallways.

J. Determination of compliance with environmental and landscaping requirements - Growth Management Department

#### **Item#1:** Environmental Assessment

Please revise the vegetative classification data and FLUCCS map in the assessment to include descriptions from Florida Natural Areas Inventory (FNAI) for the native habitat areas pursuant to Section 4.31.C, Martin County, Fla. Ord. No. 1082 (2018).

RESPONSE: The environmental assessment has been revised, please see attached PAMP, section 2.0 'Environmental Assessment'.

#### Item #2: Preserve Area Management Plan

Please remove the firewise section in the PAMP as the county firewise requirements are only applicable to residential projects. Although the county encourages the use of a 30 foot defensible space between a preserve area and any primary structure. Please update the language in section 8.0 to state that all exotic vegetation is required to be hand removed from the preserve areas, including exotic vegetation listed on the FLEPPC list. Please have the environmental consultant contact Shawn McCarthy, the environmental reviewer, to schedule an onsite inspection to verify the information provided in the assessment.



## RESPONSE: Acknowledged. The Firewise section has been removed from the PAMP. The language in section 8.0 has been updated.

Item #3: Site Data and Habitat Mapping

Please provide a separate preserve data table in the final site plan and identify the following:

- 1. Preserve Area Calculations. Provide upland preserve calculations to demonstrate that at least 25% of the total upland area is preserved as rare native upland habitat. Where there is no rare upland habitat, provide upland preserve calculations to demonstrate that at least 25% of existing common native upland habitats are preserved.
- 2. Wetland Preserve. Wetland preserve acreage, onsite.
- 3. Wetland Buffer. Native upland habitat area, to be provided as wetland preserve area buffer.
- 4. Upland Preserve, Common. Native upland preserve area habitat provided, as common habitat.
- 5. Total Preserve Acreage, for site.

#### RESPONSE: Please see revised site data table on Sheet C500

Item#4: Site Plan Review

Please include the locations of preserve area signs on the final site plan and construction plans. Signs shall be at least 11 x 14 inches in size and be posted in conspicuous locations along the Preserve Area boundary, at a frequency of no less than one (1) sign per 500 feet.

Please provide for the following Notes on the Final Site Plan:

Preserve area setbacks and preserve signage.

- 1. New construction (including fill proposed adjacent to wetland buffer zones and upland preserve areas) shall be set back a minimum of ten feet for primary structures;
- 2. Setbacks for accessory structures, such as, but not limited to, pool decks, screen enclosures and driveways, roadways, berms, shall be five feet.
- 3. Preserve signs will be at least 11 x 14 inches in size and will be posted in conspicuous locations along the Preserve Area boundary, at a frequency of no less than one (1) sign per 500 feet.
- 4. Graded areas adjacent to preserve areas shall not exceed a slope of one foot vertical to four feet horizontal. All slopes shall be properly stabilized upon completion of construction to the satisfaction of the County Administrator.

Other general final site plan notes:

1. All prohibited exotic plant species shall be removed from the site prior to issuance of a Certificate of Occupancy. Perpetual maintenance is required to prohibit the reestablishment of invasive exotic species within preservation areas and planted landscape or lake littoral areas and stormwater management areas as provided on the plans approved with the development order.



2. All Preserve Areas shall be maintained in accordance with the approved Preserve Area Management Plan (PAMP).

## RESPONSE: Please see revised Sheet C500 for preserve sign detail and posting locations along with requested preserve and other general final site plan notes.

**Item#5:** Wetland Design Standards

Please document compliance with the following requirements pursuant to Section 4.2.G.4, Martin County, Fla. Ord. No. 1082 (2018):

Placement of water management control structures in wetlands or wetland buffers shall only be allowed as part of a stormwater management plan that complies with Division 9. Placement of structures in preserve areas shall require revegetation of both the wetland and wetland buffer for which planting plans shall be included in the PAMP. The construction plans show a high number of structures proposed within the preserve areas. Please demonstrate that all the structures are necessary to maintain or improve wetland hydrology in accordance with Section 4.2.I, Martin County, Fla. Ord. No. 1082 (2018).

RESPONSE: Please see revised Sheets C650, C651 and C652 for reduced number of proposed stormwater management structures within the Wetlands and Wetland Buffers. The remaining proposed structures are utilized to maintain the existing drainage patterns of the site.

#### **Item#6:** Preserve Area Design Standards

Minimum upland preserve area width requirements. The minimum width of native upland preserve habitat to be credited toward upland preserve requirements shall be 50 feet and shall be adequate to maintain the long-term viability and should maximize wildlife utilization. The proposed upland preserve area north of wetland 2 contains an area 40 feet in width. Please revise the preserve boundary to comply with the 50 foot minimum width criteria in accordance with Section 4.35.A, Martin County, Fla. Ord. No. 1082 (2018) and update all plans accordingly.

# RESPONSE: Please see revised Final Site Plan and Civil Construction documents for adjusted preservation area location.

#### **Item #7:** Land Clearing Page

The following shall be included on the land-clearing page:

- 1. Show control structure locations within the preserve areas to be cleared for installation. A minimum width of clearing shall not be greater than 10-12 feet.
- 2. Locations of perimeter native vegetation to be retained as un-cleared during construction, if applicable.
- 3. Location of tree protection barricades (where warranted). Show protected trees outside the limits of clearing on the east side of the project.



- 4. Location of on-site posted land clearing permit and permit box (to retain approved plan).
- 5. Locations of any materials to be temporarily stockpiled to include land clearing debris or excavated materials.
- 6. Construction details for the installation of erosion control devices and preserve area barricades.
- 7. Proposed method for soil stabilization following land clearing.
- 8. Include the text: 'Property corners shall be located by a licensed land surveyor and clearly marked in the field prior to the Engineering Department's pre-construction meeting for site development.'
- 9. Include the text: 'Authorization to install erosion control devices and preserve barricades will be granted at the pre-construction meeting. This authorization shall be posted on the site, in the permit box, its location shown elsewhere on this page.'
- 10. Include the text: 'No additional land clearing shall commence until a satisfactory inspection of the required erosion control barricades has been obtained.'
- 11. Include the text: 'All construction barricades and silt fences will remain in place and be monitored for compliance by the permit holder during the permitted development activities.'
- 12. Include the text: 'Prior to scheduling a final environmental inspection for the infrastructure, all barricades and erosion control devices shall be removed and disposed of by the contractor.'

RESPONSE: Please see revised Sheet C400 for locations of temporary clearing for stromwater control structure installation. Please see revised Sheet C 400 for requested land clearing notes.

#### **Item #8:** Land Clearing Methodology

As part of the land clearing plan, please provide the following:

- 1. Applications for land clearing shall require a land clearing plan that includes, at a minimum, proposed dates for clearing, the proposed method of erosion and sediment control, the proposed method of debris disposal and soil site stabilization procedures to be implemented after land clearing. Site clearing, vegetation removal and/or building demolition shall be phased concurrent with construction activity to minimize soil erosion and generation of airborne dust. Site stabilization construction practices such as but not limited to seeding, wetting and mulching that minimize airborne dust and particulate emissions generated by construction activity shall be completed progressively and actively maintained as vegetation removal occurs within a given area of a site. Building or infrastructure construction shall commence no later than 30 days after vegetation removal and site clearance is completed. Where off-site siltation becomes a problem, work on the project shall stop until an amended plan is approved and implemented.
- 2. During construction activities, existing native vegetation shall be retained to act as buffers between adjacent land uses properties, and to minimize nuisance dust, noise and air pollution. This requirement shall be a condition of all development approvals. Barricades shall be used on-site to preserve the vegetation to be retained. Areas especially vulnerable to wind or



water erosion, such as shorelines or bluffs, shall retain existing vegetation during construction and be the last area or part of the final phase of a phased clearing plan to be cleared.

RESPONSE: Comments noted. The project will obtain an NPDES permit and will be required to comply with stabilization and erosion requirements. Please see note 6 and 7 on Sheet C400.

#### Landscape

**Item #1:** Standard Application Requirements

The deficiencies noted in this section need to be addressed by the applicant with revised plans and documentation. To ensure a successful review, the following shall be provided with your resubmittal information:

Revision dates/notes on all affected plans. Plans should be provided with "call-out" revision clouds/notes to identify areas that have been modified from the original submittal. A summary of changes that are provided with your resubmittal information, the staff report may be used as a template for your responses. It is important that you be specific as to what has been changed and where the changes may be found in the resubmitted materials. Resubmittal comments provided to address deficiencies such as "see the revised plans" should be replaced with more specific language such as "refer to the revised 30' dimension to the NE buffer provided on sheet 3/4 and revised landscape note 3 on sheet 2/4". A landscape plan is required with this application. The landscape plans must be prepared and sealed by a registered landscape architect and include all information required for submittal as specified in Section 4.662.A, LDR. Indicate the location and type of all the following, both existing and proposed:

Property boundaries, land use, rights-of-way and easements.

- 1. On-site and abutting land use features, including adjacent sidewalks, existing vegetation, natural features and site improvements within 50 feet of the property.
- 2. Buildings, structures, paving, and adjacent buildings within 50 feet of the property.
- 3. All overhead, above and underground utilities, including septic tanks, drainfields and RPZ valves.
- 4. Off-street parking, access aisles, driveways and other vehicular use areas.
- 5. Surface water bodies and wellfields.
- 6. Plant installation methods and irrigation sources.
- 7. Ditches, swales, stormwater treatment structures or slopes exceeding 3V:1H in any proposed landscape areas.

**RESPONSE:** Please see revised Landscaping plan set for requested labels.

Item #2: Landscape Tabular Data



Landscape plans shall include a table which lists the gross and net acreage, acreage of development and preservation areas, number of trees and tree clusters to be protected within the developed area and within perimeter areas, and square footage of vehicular use areas (Ref. Section 4.662.A.10, LDR). Interior and perimeter vehicular use areas should be quantified separately in the table. Tabular data shall also indicate a calculation of the minimum total number of trees and shrubs required to be planted based upon the proposed developed area and separately based upon quantities required to meet the vehicular use area planting requirements and any required bufferyard requirements.

#### Please also include the following:

- 1. Document compliance with the requirement that twenty (20) percent of the total developed area shall be landscaped.
  - a. Identify each species intended to meet the required trees, shrubs, and ground cover separately in the tabular data. Tabular data shall also indicate calculations of the minimum total number of trees and shrubs to be planted based upon the proposed developed area and separately based upon quantities required to meet vehicular use planting requirements and bufferyard requirements.
  - b. Identify proposed FL native plant species in the Landscape Tabular Data and demonstrate that at least 75% of required trees and shrubs, and at least 50% of required groundcover species provided are native.
  - c. Irrigated and non-irrigated turf areas shall be quantified and identified on the landscape plan.
- 2. Service function areas including solid waste collection and mechanical equipment requiring screening shall be summarized in a table to identify equipment and the type of screening proposed.

#### RESPONSE: Labels and water efficiency table has been added, see sheet L102

**Item #3:** General Landscape Design Standards

Please demonstrate compliance with the following general landscape requirements on the provided plans:

- 1. Screening materials and landscaping used to screen service function areas shall be consistent with the design of the primary facades
  - a. The following statement is provided: "All prohibited species shall be removed from the entire site prior to the issuance of a certificate of occupancy." (Section 4.664, LDR)
  - b. Mulch material to a minimum compacted depth of three inches is provided for all planting areas when used to supplement ground cover. Cypress mulch may not be used as a mulching material. (Section 4.663.C., LDR)
  - c. The following statement is provided: "The use of cypress mulch is prohibited in all landscaped areas."



- d. No use shall be made of, and no development activity shall be permitted in, land use buffers and perimeter landscape areas, except for:
  - i. Planting material approved as part of the landscape plan.
  - ii. Completely underground utilities and essential, specifically approved, overhead or aboveground utilities which cross these areas and do not interfere with the mature growth of required plant material.
  - iii. Grass ditches, with back slopes no steeper than 3V:1H, which can support the required landscaping materials.

#### RESPONSE: Notes have been added, see sheets L002 and L111

#### Item #4: Perimeter VUA Requirements-Non-Res Sites

Please demonstrate compliance with the following criteria for perimeter vehicular use areas (Section 4.663.A.4.a., LDR):

- 1. A ten-foot wide strip of land, exclusive of curbing, along the entire front perimeter of a site, located between the front property line and any vehicular use area, shall be landscaped. Berming is encouraged along public roadway frontages to screen parking areas and provide visual interest.
- 2. A ten-foot wide strip of land, exclusive of curbing, along the entire side and rear perimeter of a site, located between the side and rear property lines and any vehicular use area, shall be landscaped.
- 3. Perimeter tree requirements for vehicular use areas. Provide one tree for each 30 linear feet of required landscape perimeter area, with no less than 75 percent of said trees being shade trees. Creative design and spacing is encouraged, the location(s) of proposed signage should be considered and provided on the plans.
- 4. A minimum of twenty-five percent of the total perimeter landscape area is to be in native plantings. Vehicle stops or other design features shall be used so that parked vehicles do not overhang into landscape areas.

## RESPONSE: The interior vehicular landscape area calculation has been revised, see exhibit on sheet L 103

#### Item #5: Interior VUA Requirements-Non-Res Sites

Please demonstrate compliance with the following criteria for interior vehicular use areas [Section 4.663.A. 4.b., LDR]. The interior area includes the entire parcel to be developed exclusive of the required front, rear, and side perimeter landscape areas. As an incentive to preserving native areas, up to one-half of the required interior landscape area may be waived when an equal area (at least 800 square feet) within the vehicle use area is preserved in a native state.

1. In vehicular use areas within the interior of a site, one 500 square foot planting area shall be required for every 5,000 square feet of vehicular use area, or major portion thereof, and at least



three two-inch, or two three-inch caliper shade trees together with other landscape material shall be planted within each such planting area.

- 2. Interior landscape areas shall be no less than 12 feet in width, exclusive of curbing. Whenever linear medians at least 50 feet long having shade trees spaced no greater than 15 feet on center are used, the minimum width may be reduced to eight feet exclusive of curbing.
- 3. Terminal islands of not less than ten feet in width exclusive of curbing and 18 feet in length shall be provided at each end of a parking row. At least one tree shall be planted in every island.
- 4. Interior medians of at least six feet in width exclusive of curbing shall be provided between an interior row of parking spaces and an abutting interior driveway or between abutting rows of parking spaces. At least one tree shall be required for every 30 linear feet of interior median, planted singly or in clusters with tree locations not more than 60 feet apart.
- 5. Interior islands shall measure not less than five feet in width exclusive of curbing and 20 feet in length and may be reduced five feet less than the required parking space length. Such islands shall be placed within rows of parking spaces so that there is at least one interior island for every ten parking spaces or portion thereof. At least one tree shall be required per island with the remainder of the island landscaped with grass, ground cover, mulch, shrubs, or other treatment excluding pavement or sand.
- 6. All trees required within vehicular use areas shall be shade trees. [Section 4.664.B.2.a., LDR]
- 7. For vehicular use areas not utilized for off-street parking, but serving the vehicular access or storage needs of the public (stacking lanes for drive-in banks and restaurants), ten percent of the total paved area of such vehicular use area shall be added to interior landscaping. Divider medians, and Interior or Terminal islands shall not be used as stormwater management or conveyance facilities.

#### RESPONSE: Labels and an exhibit have been provided, see sheets L100 and L103

#### **Item #6:** Landscape Bufferyard Requirements

Landscaped bufferyards shall be required between differing land uses and along certain transportation corridors. It is the intent of the code to encourage the preservation of existing vegetation for use in buffers as opposed to clearing and replanting designed landscapes. [Section 4.663.B., LDR]

Please demonstrate compliance with the following criteria for landscape bufferyards:

- 1. Type 2 bufferyard: A 25 foot wide landscape strip with a six-foot-high, opaque fence or wall. At least one tree and ten shrubs shall be provided for every 300 square feet of required bufferyard. Trees must be at least ten feet in height with a two-inch caliper. A six-foot-high vegetative landscape screen consisting of 28 shrubs provided for every 250 square feet of required bufferyard can be substituted for the shrub, fence, wall or berm requirements. This vegetative landscape screen shall be 100 percent opaque at the time of planting.
- 2. Type 4 bufferyard: A 40 foot-wide landscape strip with a six-foot-high opaque fence or wall. At least one tree and 34 shrubs shall be provided for every 300 square feet of required



bufferyard. Trees must be at least 14 feet in height with a three-inch caliper and staggered for maximum opacity.

- 3. All shrub material used as a part of a dissimilar land use bufferyard shall be a minimum height of 30 inches and have a minimum crown width of 24 inches when planted; shall be species capable of achieving a minimum height of six feet; and shall be located in such a way as to maximize the screening potential. [Section 4.663.C.4., LDR]
- 4. Requirements for vegetative landscape screens. Where vegetative landscape screens are installed in required bufferyards, they shall be required to form a solid visual screen at time of planting (ref. Section 4.663.B.4., LDR for additional information).
- 5. Use of bufferyards. Utilities, easements, septic drainfields or other physical improvements shall not be placed in bufferyards, unless approved by the Growth Management Director based on good cause shown. In any case where an un-buffered view exists within 500 feet from the side or rear service areas of any nonresidential land use to any single-family or two-family residential land use, buffer requirements shall apply as if such residential uses were located on immediately adjacent lands.

Martin County, Florida Land Development Regulations (2003) Section 3.69.E. states that areas which abut residential districts and accommodate active recreation, shall provide a Type 2 bufferyard pursuant to Article 4, Division 15, Landscaping, Buffering and Tree Protection.

## RESPONSE: The buffers have been labeled and recalculated, see sheets L100 through L102

Item #7: Landscape Bufferyard Fence, Wall, Berm

Please demonstrate compliance with the following criteria for landscape bufferyards [Section 4.663.B.8., LDR]:

- 1. Whenever a buffer fence is required, it shall be of sufficient height to obstruct view between adjoining properties, presumably to a height of six feet. The buffer fence shall be solid opaque, constructed of durable materials appropriate for the intended use and consistent with materials commonly used in surrounding neighborhoods, and shall include provision for the access to all landscape materials.
- 2. The side of a fence facing a less intensive use and any side of a fence facing a public view shall have a finished appearance to furnish an aesthetically pleasing view.
- 3. At least one-half of all required plant materials shall be installed and maintained on the side facing the less intensive use, unless otherwise specifically provided.
- 4. Include a note that required fencing shall be maintained in good repair by the property owner.
- 5. When walls are proposed to meet bufferyard requirements, the facade treatment of the walls exceeding 100 feet in length shall require architectural columns at each 100-foot increment to encourage architectural variety and interests.
- 6. Fences or walls installed on property near preserve areas shall be designed to permit animal access and crossings.



7. Berms used in place of the fence or wall requirement shall have no more than a three-foot horizontal to a one-foot vertical slope. Berms may be used in combination with fences or hedges to achieve the minimum six-foot-high 100 percent opaque requirement.

## RESPONSE: A vegetative screen has been provided at minimum specification to comply with buffer requirements, see sheets L100 though L102

**Item #8:** Landscape Irrigation

4.662.B. Irrigation plans. Irrigation systems are not required; however all required plantings must remain viable, healthy, neat and orderly in appearance.

#### **RESPONSE:** Comment noted.

Item #9: Landscape Native Tree Protect & Survey

A tree survey is required to identify specific native trees required to be protected from development [Section 4.666, LDR]. Please note that trees in proposed preservation areas, palm trees and non-native species need not be identified on this survey. Existing native vegetation shall be retained to act as buffers between adjacent land uses, and to minimize nuisance dust noise and air pollution during construction.

The following information shall be provided for trees in the developed area:

- 1. A tree survey including approximate position of protected trees, protected tree clusters, landscaping and other vegetation to be preserved or removed. Trees required to be protected include any hardwood native tree having a diameter of eight inches DBH or greater throughout the developed site. Within the perimeter area, protected trees include any native hardwood tree four (4) inches DBH or greater, or any native softwood tree including pine trees (8) inches DBH or greater. Clearly identify the specific tree species required to be protected on the survey; these trees should be flagged in the field for staff verification.
- 2. As a condition of the issuance of a permit for removal of a protected tree, a satisfactory plan shall be presented by the applicant for the successful replacement of trees to be removed, based on the schedule found in Section 4.666.D., LDRs. Such schedule may be offset by the tree preservation schedule, for protected trees to be retained on site, as found in Section 4.664.F., LDRs.

RESPONSE: A label has been provided to preserve off site existing trees and the protection method for on-site trees to remain has been updated, see sheets L000 through L002.

Item #10: Landscape Material Standards-General

Please demonstrate compliance with the following requirements (Section 4.664, LDR):



- 1. At least 75 percent of all required landscaping, by category, in the form of trees and shrubs shall consist of native vegetation.
- 2. The ground area within required landscaped areas which is not dedicated to trees, vegetation or landscape barriers shall be appropriately landscaped and present a finished appearance and reasonably complete coverage upon planting. Ground covers shall be spaced so as to present a finished appearance and complete coverage within six months after planting. Ground covers required by this division shall consist of at least 50 percent native species.

#### **RESPONSE:** Comment notted

Item #11: Landscape Protection And Maintenance

Please add the following notes regarding landscape maintenance

Please add the following notes regarding landscape maintenance to the plans provided [Section 4.665, LDR]:

Protection of required landscaping.

1. Encroachment into required bufferyards and landscaped areas by vehicles, boats, mobile homes or trailers shall not be permitted, and required landscaped areas shall not be used for the storage or sale of materials or products or the parking of vehicles and equipment.

Maintenance of required landscaping.

- 1. Required landscaping shall be maintained so as to at all times present a healthy, neat and orderly appearance, free of refuse and debris. If vegetation which is required to be planted dies it shall be replaced with equivalent vegetation. All trees for which credit was awarded and which subsequently die, shall be replaced by the requisite number of living trees according to the standards established in the Martin County Landscape Code.
- 2. All landscaping shall be maintained free from disease, pests, weeds and litter. Maintenance shall include weeding, watering, fertilizing, pruning, mowing, edging, mulching or other maintenance, as needed and in accordance with acceptable horticultural practices. Perpetual maintenance shall be provided to prohibit the reestablishment of harmful exotic species within landscaping and preservation areas.
- 3. Regular landscape maintenance shall be provided for repair or replacement, where necessary, of any screening or buffering required as shown on this plan. Regular landscape maintenance shall be provided for the repair or replacement of required walls, fences or structures to a structurally sound condition as shown on this plan.

#### RESPONSE: Notes have been added see sheet L101.

Item #12: Preserve Area Interface Requirements

Please provide for the following planting requirements, pursuant to Sec 4.663.E., LDR:



A preserve area interface shall be established between required landscaping and stormwater treatment areas and preservation areas when preservation areas exist on a development site and when preserve area abut a development site. The preserve area interface shall include a consolidation and connection of landscaping and stormwater treatment areas with preservation areas. Where more than one preservation area exists on a development site or abutting a development site multiple preserve area interfaces shall be created. Within the preserve area interface the use of plant materials shall be restricted to native species. The following preserve area interface criteria shall be documented and met for all development sites where preservation areas are identified and where preserve areas have been identified adjacent to a development site:

- 1. Stormwater management systems. Plantings within dry retention and detention stormwater areas abutting preserve areas shall be restricted to native trees, native shrubs and native groundcovers. Wet retention and detention stormwater areas abutting preserve areas shall be designed and planted as littoral and upland transition zone areas (preserve area interface) and connected to preserve areas pursuant to Article 4, Division 8, LDR, MCC.
- 2. Perimeter landscaping. Plantings within perimeter vehicular use landscape areas abutting preserve areas shall be restricted to native trees, native shrubs and native groundcovers pursuant to quantity, size and dimension requirements of section 4.663.A.4., LDR, MCC.

Add a note to the site plan and landscape plan to state that stormwater management areas are to be maintained with planted native vegetation, in perpetuity.

**RESPONSE:** Comment noted

K. Determination of compliance with transportation requirements - Engineering Department

#### Item # 1:

Page 8 - Edit narrative to replace Greater Treasure Coast Regional Planning Model (GTCRPM) with Treasure Coast Regional Planning Model version 4 (TCRPM4).

**RESPONSE:** Text updated in the revised Traffic Impact Analysis (rev #1)

#### Item # 2:

Table 5 does not include an overall intersection level of service at the project entrance. In order to accommodate safe vehicular movement and pedestrian crossing activities, please conduct a traffic signal warrant analysis for SE Cove Road at the project entrance.

RESPONSE: Highway Capacity Manual (HCM) methodology does not assign an overall intersection level of service (LOS) at an intersection with two-way stop control (no control delay for major street through/right movements to measure and average).



A preliminary MUTCD signal warrant analysis based on projected AM and PM peak hour volumes (Warrant 3) was performed with the aid of HCS+ software (outputs attached). Based on Buildout Year 2021 volumes assuming 100% enrollment, Warrant 3 would be met. Warrants may also be met in the future for pedestrian activity. However, the following should be considered:

- Charter schools typically do not operate at maximum enrollment for several years after opening, if ever. They typically open at a reduced enrollment and ramp up over a few years. This gives operators an opportunity to monitor traffic conditions at the driveways as enrollment increases and adjust to address operational issues.
- Charter schools have the ability to adjust start times, stagger grade starts, adjust vehicle loop
  operations, and implement traffic officers as needed to address operational issues. Per MUTCD
  guidance, installation of a signal should be considered only after alternative options are explored and
  only when volumes are present to warrant the signal.

The developer intends to work with the County to establish monitoring conditions in the development order to monitor when/if the signal is warranted per MUTCD guidance and install the signal if/when MUTCD warrant(s) are met and permitted by the County. In the interim, the school will work with the County to address operational concerns as needed with traffic officer presence at peak times, school zone establishment, and/or interim flasher/control devices to facilitate safe pedestrian crossings at the driveway.

#### Item # 3:

Page 16 – Project access narrative for egress and the Syncho analysis for the NB lane configuration are inconsistent with the site plan and construction plans. Storage length for the EBR is inconsistent with the construction plans and WBR can be lengthened to match field conditions.

RESPONSE: Concept plan provided in the revised Traffic Impact Analysis (rev #1) is now consistent with the Synchro analysis. Synchro outputs shows turn lane storage lengths are greater than 95% queue length demands

#### Item # 4:

Explain how the Southbound movement (SE Legacy Cove Circle) at the Project Drive #1 & Cove Road in Appendix D: Volume Development Worksheets were generated or provide turning movement counts.

RESPONSE: Future southbound approach volumes were estimated by applying the ITE 10<sup>th</sup> Edition trip rates to the 245 dwelling units and assigning trips at the two residential driveways per the TCRPM4 distribution. ITE estimates 45 trips in, 134 trips out in the AM peak hour and 151 trips in, 89 trips out for the PM peak hour. 33% of peak hour trips



were assigned to Cove Road west of the Cove Road driveway and associated driveway movements. 12% of peak hour trips were assigned east of the Cove Road driveway and associated driveway movements. The remaining 55% of residential trips was distributed to the Ault Avenue driveway per the model distribution.

#### Item # 5:

Verify Appendix E: Syncho Reports match signal timings with the Martin County Traffic Division.

RESPONSE: Signal timings used in the Synchro are included in Appendix E in the revised Traffic Impact Analysis (rev #1).

#### Item # 6:

The Traffic Impact Analysis does not comply with Article 5, Division 3, Section 5.64 because:

An analysis, including traffic distribution and assignment, of all links and aggregated segments or parts thereof, on the major road network on which the project traffic has an impact of at least two percent of the level of service capacity as identified in the most recent Martin County annual concurrency report. [Martin County, Fla., LDR Article 5, Division 3, Section 5.64.C.5 (2009)]

- 1. Distribution should equal 100 percent entering the site.
- 2. Redistribute trips on SE Ault Ave to roadways contained in the 2017 Roadway Level of Service Report.
- 3. Grow background conditions using growth rates from 2017 Roadway Level of Service Report.

If the total traffic volume is higher than the adopted level of service capacity, a more detailed analysis of level of service using accepted FDOT level of service methodology techniques must be undertaken. These techniques must be approved by the County Administrator and will include those indicated in the Highway Capacity Manual and FDOT's latest Quality/Level of Service Handbook. If the more detailed analysis indicates that the total traffic volume would be less than the adopted level of service capacity for all impacted links and/or aggregated segments, concurrency has been satisfied. If not, concurrency has not been satisfied, and the only way for concurrency to be satisfied is for a traffic congestion mitigation plan (TCMP) to be accepted by the County Administrator. The TCMP, shall propose solutions to mitigate the impacts of the development on the links on which concurrency has not been satisfied. The TCMP shall demonstrate the operating conditions of the deficient links and/or aggregated segments with project traffic operate at the adopted level of service capacity. [Martin County, Fla., LDR Article 5, Division 3, Section 5.64.C.5.a (2009)]

RESPONSE: Analysis was revised in Traffic Impact Analysis (rev #1) to address this comment. See Figure 3 showing 100% distribution at the driveway. Project trips



previously assigned to Ault Ave have been shifted to Willoughby Blvd. Growth rates from the 2017 Roadway LOS Report have been used to generate background volumes.

1. The analysis in Table 7 shows that Cove Road will have a V/C > 1 due to the project.

RESPONSE: The Applicant is proposing a left turn lane at the site driveway to add capacity on the relatively short segment of Cove Road from the Project Driveway to Willoughby Boulevard.

<u>M. Determination of compliance with engineering, storm water and flood management requirements -Engineering Department</u>

#### Item #1: Right Of Way Improvements:

- 1. Provide cross section details every 100 feet along the proposed improvements of SE Cove Road. [MARTIN COUNTY, FLA., LDR SECTION 4.843.D.2]
- 2. Provide station and offset notations to all proposed construction elements. Provide Begin/End Work STA (Match line STA) to the Cove Road Engineering Plan.
- 3. Revise Cove Road/Turn Lane: Typical Pavement Section to be consistent with the Flexible Pavement Section of Martin County Standard Detail R-10 for an Arterial Roadway. The asphaltic concrete surface course (2nd lift) should be 1.5 inches. [MARTIN COUNTY, FLA., LDR SECTION 4.843.A]
- 4. Provide sight triangles / sight distances on the Cove Road Engineering Plans and Landscape Plans at the intersection of SE Cove Road and the proposed driveway for the development. [MARTIN COUNTY,FLA., LDR SECTION 4.843.F (2010)] [FLORIDA DEPARTMENT OF TRANSPORTATION INDEX #546 (2016)]
- 5. Label all existing driveways and stormwater management system appurtenances along the proposed improvements of SE Cove Road. Currently, there are two existing residential driveways within the proposed right turn lane on SE Cove Road. [MARTIN COUNTY, FLA., LDR SECTION 4.843.D]
- 6. Provide adequate detail for the portion of the proposed driveway median (divider) to be constructed within the right-of-way of SE Cove Road. If the median is to be landscaped, a 4-inch mountable curb shall be used. If the median is not to be landscaped, the median shall have a surface color that contrasts with the driveway pavement surface and the driveway surface shall not be more than 3-inches above the driveway pavement surface. A maintenance agreement is required for any landscape proposed within the right-of-way of SE Cove Road. [MARTIN COUNTY, FLA., LDR SECTION 4.845.G, Table 4.19.8]
- 7. Eliminate the proposed striped shoulder area within the entry lane of the proposed driveway connection at SE Cove Road to avoid potential conflicts with vehicles turning into the gore area of the driveway and merging into a single drive lane. If multiple entry/exit lanes are desired for the proposed driveway, guidelines for design can be found within MARTIN COUNTY, FLA., LDR SECTION 4.845.G, Table 4.19.8/9.



- 8. Provide a 4-foot paved shoulder on the eastbound lane for potential bike lanes along SE Cove Road in the future. Provide the 4-foot shoulder (bike lane) in-between the eastbound lane and the proposed right-turn lane. The typical section for SE Cove Road at this property front consists of 11-foot lanes and a 4-foot paved shoulder. Revise Cove Road Engineering Plan and section details accordingly.
- 9. Label all proposed stormwater pipe materials throughout the Cove Road Engineering Plans. All stormwater pipe material proposed within the right-of-way shall be reinforced concrete pipe and 18-inch minimum diameter. [MARTIN COUNTY, FLA., LDR SECTION 4.385.B and Martin County Stormwater Management and Flood Protection Standards for Design and Review] 10. Provide construction details for drainage structure STM-CR2, it is unclear if this is a new or existing drainage structure. Provide a construction detail for the proposed pipe connection to the east of STM-CR2 consistent with Martin County Standard Detail R-70 and/or FDOT Standard Plans Detail 430-001.
- 11. Provide a minimum of 8-feet between the culvert opening and edge of pavement for all proposed mitered end sections with a slope no steeper than 6H:1V. This minimum dimension may be radial.
- 12. Align the radius at the exit lane to the proposed driveway to meet the proposed paved shoulder (bike lane). [MARTIN COUNTY, FLA., LDR SECTION 4.843.E]
- 13. Provide a stop sign and the appropriate pavement markings (stop bar) at for the driveway exit aisle at SE Cove Road. [MARTIN COUNTY, FLA., LDR SECTION 4.843.H]
- 14. Label all proposed curbs and gutters by type and the appropriate FDOT index throughout the Cove Road Engineering Plans. Proposed curbing within the driveway approach of SE Cove Road should be type F curb and gutter. Label and provide a detail for the appropriate curb and gutter endings. [MARTIN COUNTY, FLA., LDR SECTION 4.843.D]
- 15. Pursuant to Section 4.843.G., LDR, Martin County Code, in lieu of constructing a sidewalk, the applicant shall pay the cost of construction within sixty (60) calendar days of the project approval. The cost is \$25 per linear foot of property along SE Cove Road, for a resultant payment of \$2,975.

Additionally, remove the proposed sidewalk along SE Cove Road from the construction plans. [MARTIN COUNTY, FLA., LDR SECTION 4.843.G]

16. Advisory: There is a residential development currently under review, called Cove Royal, which is located roughly 600 feet east of the proposed Treasure Coast Classical Academy. The Cove Royal project is in its sixth round of review and is close to approval. If the project is approved, and moves forward with construction, there will be some roadwork on SE Cove Road which will affect the proposed roadwork from the Treasure Coast Classical Academy project. Staff suggests coordinating with the Cove Royal design team to avoid conflicts between the two sets of plans.

RESPONSE: Please see revised Cove Road Engineering Plans, Sheets C710 through C712, for requested plan revisions, additional cross-sections, station and offsets, sight triangles, revised stripping, etc. It is acknowledged that the developer will pay into the County sidewalk fund in lieu of constructing a sidewalk along the Cove Road frontage.



#### **Item #2:** Off-Street Parking:

- 1. Provide a typical pavement section detail for the proposed drive aisle(s) within the proposed development.
- 2. Provide proposed grade elevations every 50 feet for the proposed sidewalk to be constructed within the development. Provide a typical sidewalk section detail demonstrating compliance with the Americans with Disabilities Act. [MARTIN COUNTY, FLA., LDR SECTION 4.843.G and the Florida Accessibility Code for Construction]
- 3. Provide proposed edge of pavement grade elevations along all travel lanes/aisles adjacent to the proposed parking lot area. [MARTIN COUNTY, FLA., LDR SECTION 4.843.D]
- 4. Include all applicable plans and construction details for the proposed 2-foot high gravity wall with 32-inch traffic railing and junction slab to the construction plans.
- 5. Currently, excavation and/or fill construction activities are being proposed within 5 feet of the wetland buffer zones. Excavation and/or fill are not permitted within 5 feet of a wetland buffer zone. Revise all section details to demonstrate that this requirement can be achieved. [MARTIN COUNTY, FLA., LDR SECTION 4.2.E]
- 6. Provide for clear access to all stormwater control structures within the project. [MARTIN COUNTY, FLA., LDR SECTION 4.348.H]
- 7. Label the appropriate loading zone/spaces on the construction plans and site plan; a minimum number of one loading space is required for this usage. Loading spaces shall be not less than ten feet in width and 25 feet in length. [MARTIN COUNTY, FLA., LDR SECTION 4.626.B.4]
- 8. Staff noticed the location of the interior sidewalk involves multiple conflict points between pedestrians and vehicular traffic. There are currently six crosswalks shown between SE Cove Road and the school building. Staff suggests relocating the sidewalk to the eastern side of the entrance drive to eliminate as many conflict points as possible.

RESPONSE: Please see revised onsite paving, grading and drainage plans and applicable section details. Please see note #22 on Sheet C600 for maximum sidewalk slopes. The proposed retaining wall has been revised to be a modular block wall designed by others at the time of construction. The site grading has been revised to not have any fill within the 5' buffer to the wetland buffer. The crosswalks in the vicinity of the parking field are also for the pedestrians who have parked their car and are traversing to the building.

#### **Item #3:** Stormwater Management Submitted Materials:

1. Provide pre-development and post-development basin maps for the entire project area. The sizes of the basins in acres must be shown, and the basin boundaries shall be displayed with a thick dashed line. Flow paths within each basin shall be indicated throughout. Concentrated flow paths, such as basin to basin connections, or basin to outfall connections, shall be displayed and labeled with volumetric flow rates. Topographic elevations, both existing and proposed, should be displayed. [Martin County Stormwater Management and Flood Protection Standards for Design and Review, Section 1.4.B.8.c (2001)]



2. The drainage calculations reference a geotechnical report by Dunkelberger Engineering & Testing, Inc. However, the report was not included in the application. Provide the missing report with the next submittal.

**RESPONSE:** Please see revised Drainage Calculations and included geotechnical reports.

**Item #4:** Stormwater Management Report:

- 1. The proposed post-development discharge rate of 11.41 CFS exceeds the previously permitted rate of 8.13 CFS. Either reduce the proposed discharge to be equal to or less than the permitted rate, or provide a new/modified SFWMD ERP with a revised allowable discharge rate.
- 2. The use of infiltration as an outfall during the ICPR routing will not be accepted. Infiltration is only permitted to demonstrate system recovery after cessation of the storm events. [Martin County, Fla., LDR Section 4.385.C.1.a (2010)]
- 3. The finished floor elevations should be greater than the predicted 100-year 3-day storm event with zero discharge. The elevations shown in the report and ICPR model have included discharge. Revise accordingly.
- 4. It is not clear if the minimum perimeter berm elevations are met along all of the basin boundaries. Demonstrate the minimum elevations are met along the western limits of Basin B4, the western and northern limits of Basin B2, and the shared boundary between Basins B4 and B2.
- 5. Display all improvements from parcels 34384100100000530 and 34384100100000540 on the construction plans. Provide topographic elevations for the improved parcels, and include finished floor elevations for the two houses.
- 6. Stormwater operation and maintenance plan shows conflicting information for roadway sweeping. Under the "Frequency" heading, yearly sweeping is recommended. However, under the "Recommended Work Sequence" heading, monthly sweeping is recommended. Revise for consistency.

RESPONSE: Please see revised Drainage Calculations and revised Drainage Plans. Including the recent improvements adjacent to the property. The FFE for the two house are 21.0' which is above our proposed building FFE of 18.25.

N. Determination of compliance with addressing and electronic file submittal requirements — Growth Management and Information Technology Departments

#### Addressing

#### **Item #1:**

Please add SE to Cove Rd on the site plan.



#### **RESPONSE: Please see revised Site Plan**

O. Determination of compliance with utilities requirements - Utilities Department

#### Water and Wastewater Service

#### **Item #1:**

Drawings Must Be Approved

The construction drawings must be approved by the Utilities and Solid Waste Department prior to sign off by the Department of permit applications and agreements. [ref. Code, LDR, s.10.2.B.5. Code, LDR, Art.10]

RESPONSE: Comment noted. Comments have been received from Martin County utilities and have been included within the included revised construction plans.

#### **Item #2:**

The applicant must submit an executable, final draft water and wastewater service agreement to the Growth Management Department for review by the Legal and Environmental Services departments prior to approval of the final site plan. The 'Water and Wastewater Service Agreement' must be executed and the applicable fees paid within sixty 60 days of final Martin County approval of the request.

**RESPONSE:** Please see attached water and wastewater service agreement information form.

O. Determination of compliance with utilities requirements - Utilities Department

#### Wellfield and Groundwater Protection

**Item #1:** Irrigation Source

The applicant must submit information concerning the source for irrigation prior to approval of the Site Plan. [ref. Code, GEN, s.159.164 Code, GEN, Ch.159, Art.6]

**RESPONSE:** Please see irrigation plan for annotation of source noted.

<u>P. Determination of compliance with fire prevention and emergency management requirements – Fire Rescue Department</u>

**Item #1:** Water Supply

Needed Fire Flow Requirements for Buildings



Identify the Needed Fire Flow Requirements for all buildings / structures. Fire flow calculations shall be prepared and sealed by a professional engineer currently licensed in the state of Florida for each newly constructed building.

The Needed Fire Flow Requirement must be in accordance with Florida Fire Prevention Code, N.F.P.A. 1, Chapter 18.4.5 (latest adopted edition). The Guide for Determination of Needed Fire Flow, latest edition, as published by the Insurance Service Office (ISO). All calculations must be demonstrated and provided.

RESPONSE: Please see included fire protection criteria on sheet FP1.1 which describes the design approach and identifies the flow test information. Fire sprinkler shop drawings will be submitted under a separate permit prior to work.

**Item #2:** Locations of Fire Department Connections Fire department connections shall be located:

- 1. On the street side of buildings.
- 2. Where fully visible and recognizable from the street or nearest point of fire department apparatus accessibility.
- 3. And arranged so that hose lines can be attached to the inlets without interference from nearby objects, including buildings, fences, posts, or other fire department connections. [14:6.3.5.1]
- 4. Not more than 100 ft. from the nearest fire hydrant connected to an approved water supply. [14:6.3.5.4]
- 5. On the same side of the roadway or fire lane as the nearest fire hydrant. [AHJ]
- 6. Located 1 1/2 times the height of building away to remove from collapse zone. [AHJ]
- 7. In a place that will allow a space four feet (4') on both sides of the fire department connection centerline that must be kept open at all times.
- 8. On the discharge side of the double detector check valve.

RESPONSE: Please see revised Sheet C900 for revised location of the proposed FDC.

#### **Emergency Management**

Item #1: Shelter Requirements, Educational Institutions

This project is subject to the requirement that the structure must be constructed to meet state requirements to serve as an emergency evacuation shelter. Please demonstrate that this project will meet this requirement as set forth in Comment #2, Item #11, Section G of this report. The building standards for shelters are provided as Exhibit 1 to this report for your reference.



Please be advised that in the event of an emergency, the emergency management director may require this facility be made available for use as an emergency shelter pursuant to 252.38(1)(d), 252.385(4)(a), and 1002.33(1), Fla. Stat. (2018).

RESPONSE: The final determination of designation as an emergency shelter will be confirmed at time of building permit. Per State Code Charter schools are exempt from the emergency shelter requirement.

<u>Q. Determination of compliance with Americans with Disability Act (ADA) requirements – General Services Department</u>

#### **Item #1:** ADA Compliance

- 1. Provide the required detectable warning surfaces at all proposed ADA curb ramps to be constructed within the development. All detectable warning surfaces proposed within the SE Cove Road right-of-way shall be consistent with Martin County Standard Detail R-120B; revise the Final Site Plan and Construction Plans accordingly. [Martin County, Fla., LDR Section 4.843.G.2 and the Florida Accessibility Code for Construction]
- 2. Provide an ADA curb ramp at the northeast side of the building to connect with the proposed sidewalk and cross walk; revise the Final Site Plan and Construction Plans accordingly. [Martin County, Fla., LDR Section 4.843.G.2 and the Florida Accessibility Code for Construction]
- 3. Provide sidewalk connectivity/accessible route to all proposed elements of the development (basketball court); revise the Final Site Plan and Construction Plans accordingly. [Martin County, Fla., LDR Section 4.844.B.1 and the Florida Accessibility Code for Construction]

RESPONSE: Please see revised plans for addition of detectable warning stripes, curb ramp, and sidewalk to basketball court. The proposed sidewalks and ramps within the SE Cove Road ROW have been removed.



#### Martin County, Florida Growth Management Department DEVELOPMENT REVIEW DIVISION

2401 SE Monterey Road, Stuart, FL 34996 772-288-5495 <u>www.martin.fl.us</u>

# DEVELOPMENT REVIEW APPLICATION

A.	General Inform	nation	:						
1.	Type of Application: Major Final Site Plan								
2.	Proposed Development's Name:								
2	Treasure Coast Classical Academy								
J.	Driftwood Cay	rmer Development's Name: iftwood Cay							
4.	4. Previous Project Number:				D0:	54-002			
5.	Pre-Application M	re-Application Meeting Date:							
6.	Property Owner:								
	Name or Company Name Company Representative		Driftwood Cay of Stuart, LLC  Jeremy Lemaster						
	Address P.O. Box 106		OCICITY LOTT						
	City Palm City					_ State FL	Zip 34991		
	Phone <u>772</u> - <u>287</u>		Fax	772		4010			
	Email Planning@M	Email Planning@MedalistBuildingGroup.com							
7.	Agent: Name or Company Name Company Representative Address 2740 SW Mapp Road		Not Appl	icable	•				
			Medalist Building Group, LLC						
			Ella Taylor						
	Address 2740 SW Ma	рр коас				State FL	Zip 34990		
	Phone 772 - 287	_ 2010	Fax	772 .	287 -				
	Email Planning@M	edalistBuildi	ngGroup.com						
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ο.	Contract Purchaser: Name or Company Name		Summit	Cons	tructio	n Group			
	Company Represer	Todd Lucas							
	Address 421 South St	ummerlin Av	enue						
	City Orlando Phone 267 - 331	4000	Fax	267	- 331 -	State <u>FL</u>	_ Zip <u>32801</u>		
	Email Todd.Lucas@			207	- 331 -	4009			
		<u> </u>	Same as	the A	aent				
9.	_and Planner:								
	Name or Company								
	Company Represer Address								
	City					State	Zip		
	Phone	-	Fax			•	-		
	Email								

#### Select from the list 10. Landscape Architect: Name or Company Name Company Representative Address \_\_\_\_\_ \_\_\_\_\_ State \_\_\_\_ Zip \_\_\_\_\_ City Phone Fax Email Select from the list 11. Surveyor: Name or Company Name Company Representative Address \_\_\_\_\_ \_\_\_\_\_ State \_\_\_\_ Zip \_\_\_\_ City \_\_\_ Fax Phone Email Select from the list 12. Civil Engineer: Kimley-Horn Name or Company Name Company Representative Jordan Haggerty Address 116 South Kentucky Avenue City Lakeland State FL Zip 33801 Phone 863 - 226 - 6859 Fax Jordan.Haggerty@Kimley-horn.com Email Select from the list 13. Traffic Engineer: Name or Company Name Company Representative Address \_\_\_\_ State Zip City Phone Fax Email Select from the list 14. Architect: Name or Company Name Company Representative Address \_\_\_\_\_ State \_\_\_\_ Zip \_\_\_\_\_ City Phone Fax \_\_\_\_ - \_\_\_ -\_\_\_-Email Select from the list 15. Attorney: Name or Company Name Company Representative \_\_\_\_\_ Address \_\_\_\_\_ State \_\_\_\_ Zip \_\_\_\_\_ City \_ Phone \_\_\_ - \_\_ - \_\_\_ Fax \_\_\_ - \_\_\_ - \_\_\_ Email

16. Environmental Planner: Name or Company Name Company Representative	Same as Agent						
Address							
City	State ZIP						
Phone	Fax						
Email							
17. Other Professional:							
Name or Company Name							
Company Representative							
Address							
City	State Zip						
Phone	Fax						
Email							
18. Parcel Control Number(s) 343841001000000501							
3438410000000000000000000000000000000000							
34304100000000000							
<ul> <li>19. Certifications by Professionals:</li> <li>Section 10.2.D.7., Article 10, Development Review Procedures, Land Development Regulations (LDR), Martin County Code (MCC) provides the following:</li> <li>When reviewing an application for a development permit that is certified by a professional listed in s. 403.0877. F.S., the County shall not request additional information from the application more than three times, unless the applicant waives the limitation in writing. If the applicant believes the request for additional information is not authorized by ordinance, rules, statute, or other legal authority, the County, at the applicant's request, shall proceed to process the application for approval or denial.</li> <li>This box must be checked if the applicant waives the limitations.</li> </ul>							
B. Applicant or Agent C	Certification:						
./	, and to the extent that I participated in the application, I ally and accurately.						
Applicant's signa	ture						
Applicant & Signa	M C M D						
Printed name							

## NOTARY ACKNOWLEDGMENT

STATE OF FOLIAGE	
COUNTY OF Martin	
I hereby certify that the foregoing instrument was day of August, 2018, by He or she	
is personally known to me or □ has produced	as
Notary public signature  Printed name	COMMISSION ELOS
State of Florion at-large	#GG 197252  #GG 197252  #JOHN CONTROL OF CON



September 13th, 2018

Mr. Eddie Herron Manager OSP Planning & Engineering Design AT&T Florida 120 N K Street, Lake Worth, FL 33460

## RE: AT&T Service Availability – South Side of Cove Road between Atlantic Ridge and Grace Lane, to proposed charter school "Treasure Coast Classical Academy".

Dear Mr. Herron

With a Major Final Site Plan Application, Martin County requires documentation in the form of letters that have been provided to each utility company (telephone, cable, electric and waste management) pertaining to the availability of services and review of utility easements. Enclosed please find the proposed site plan for your review and comment.

We are proposing to develop the site located at 1400 SE Cove Road in Stuart, previously known as Driftwood Cay (D054-002). The development will take place on two (2) lots under the following PCNs: 34-38-41-001-000-00050-1 & 34-38-41-000-0000-00030-7. The proposed development will consist of a 65,000 square foot building to be utilized as a charter school that will host approximately 1,000 students and 58 employees.

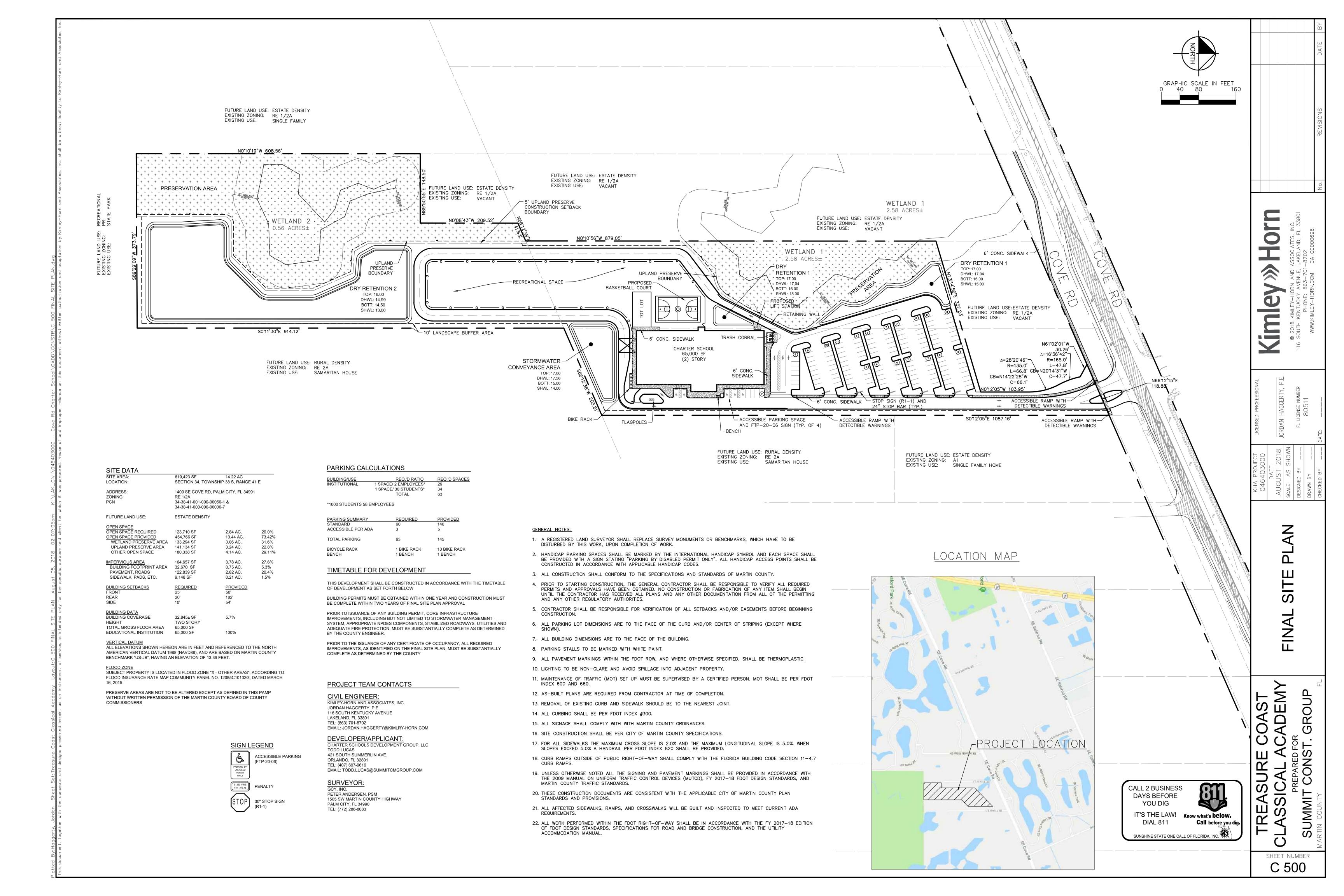
We are requesting a letter from you to verify the availability of phone and cable services to accommodate the proposed school. Can you please verify that these services are available to this site?

Should you have any additional questions please feel free to contact me at (772) 287-2010 ext. 5.

Sincerely,

Ella Donaho Taylor

Ella Donaho Taylor Director of Land Planning Medalist Building Group, LLC Planning@MedalistBuildingGroup.com (772) 287-2010 ext. 5





December 1st, 2018

Comcast Service Center Comcast Corporation 1495 NW Britt Road Stuart, FL 34994

## RE: Comcast Service Availability – South Side of Cove Road between Atlantic Ridge Drive and Grace Lane, to proposed charter school "Treasure Coast Classical Academy".

To Whom It May Concern

With a Major Final Site Plan Application, Martin County requires documentation in the form of letters that have been provided to each utility company (telephone, cable, electric and waste management) pertaining to the availability of services and review of utility easements. Enclosed please find the proposed site plan for your review and comment.

We are proposing to develop the site located at 1400 SE Cove Road in Stuart, previously known as Driftwood Cay (D054-002). The development will take place on two (2) lots under the following PCNs: 34-38-41-001-000-00050-1 & 34-38-41-000-000-00030-7. The proposed development will consist of a 65,000 square foot building to be utilized as a charter school that will host approximately 1,000 students and 58 employees.

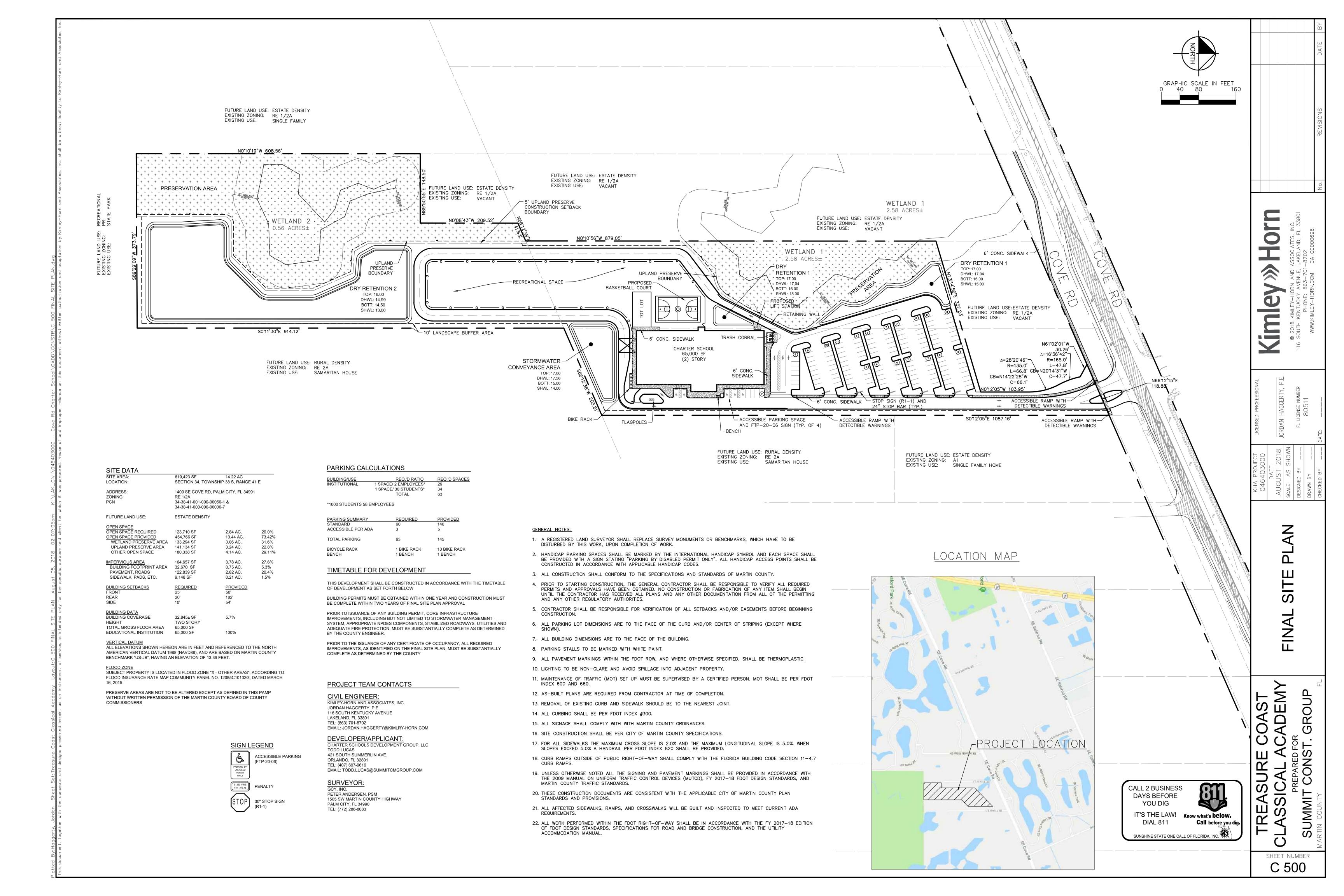
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Sincerely,

Ella Donaho Taylor

Ella Donaho Taylor Director of Land Planning Medalist Building Group, LLC <u>Planning@MedalistBuildingGroup.com</u> (772) 287-2010 ext. 5



## Drainage Calculations SFWMD and Martin County

Treasure Coast Classical Academy 1400 SE Cove Road Stuart, Florida 34997 Section 34, Township 38S, Range 41E

### Prepared for:

Todd Lucas Summit Construction Group 421 South Summerlin Avenue Orlando, Florida 32801

# Drainage Calculations SFWMD and Martin County

# Treasure Coast Classical Academy 1400 SE Cove Road Stuart, Florida 34997 Section 34, Township 38S, Range 41E

# Prepared for:

Todd Lucas Summit Construction Group 421 South Summerlin Avenue Orlando, Florida 32801

Prepared by:

Kimley-Horn and Associates, Inc. Lakeland, Florida 046364001

August 2018 (Revised Dec. 2018)

© Kimley-Horn and Associates, Inc. 2018 116 S. Kentucky Ave., Lakeland, FL 33801 CA 0000696 (863) 701-8702 Jordan L. Haggerty, P.E. FL P.E. # 80511

Bradley A. Younts

This item has been electronically signed and sealed by Jordan L. Haggerty, P.E. on 12/11/2018 using a digital signature.

Printed Copies of this document are not considered sign

Printed Copies of this document are not considered signed and the signature must be verified on any electronic copies.

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TREATMENT VOLUME & STAGE STORAGE CALCULATIONS	APPENDIX 2
PRE/POST-DEVELOPMENT DRAINAGE ROUTING ANALYSIS (ICPR)	APPENDIX 3
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PREVIOUSLY APPROVED AND PERMITTED DRAINAGE REPORT SUPPORTING DOCUMENTS	APPENDIX 6



# 1 SUMMARY

The proposed development, "Treasure Coast Classical Academy", located on a ±14.22-acre parcel in Martin County, Florida, includes the proposed development of an educational institution building at 65,000 s.f. (2 story), recreational fields, 3.30 acres of upland preserve area, and vehicular parking areas along with the associated stormwater management system. The project area is comprised of six (6) post-development basins (Basin B1, Basin B2, Basin B3-A, Basin B3-B, Basin B3-C, and Basin B4) and a stormwater management system that is designed to treat and attenuate runoff from the 25-yr/3-day storm event per SFWMD and Martin County criteria. The proposed stormwater management system will be a major modification to the previously approved SFWMD ERP No. 43-02792-P. The proposed storm water management system has been designed to comply with the South Florida Water Management District and Martin County.

# 1.1 LOCATION

The project is located south of SE Cove Road across from the Cove Isle Subdivision, west of the Samaritan House for Boys, east of the Dr. David L. Anderson Middle School, and north of the Atlantic Ridge Preserve State Park. The general site location is shown superimposed on a vicinity map (See Exhibit A-1) along with an aerial photograph (See Exhibit A-2), and a USGS Quad map (See Exhibit A-3).

#### 2 PRE-DEVELOPMENT CONDITIONS

The project site is currently vacant, undeveloped, and has an existing SFWMD ERP No. 43-02792-P.

# 2.1 SOILS

Existing soils were determined by the U.S. Department of Agriculture – National Resources Conservation Service and subsequently published in the Martin County Soil Survey Report. The predominant soil types on-site were identified as Waveland and Immokalee Fine Sands (Hydrologic Group A/D) and Waveland and Immokalee Fine Sands, depressional (Hydrologic Group A/D); a Natural Resources Conservation Service (NRCS) Soils Map has been provided (See Exhibit B).

Dunkelberger Engineering & Testing, Inc., a Terracon company, performed a Geotechnical Engineering Investigation for the site. Please see attached, under separate cover, the Geotechnical report for subsurface evaluation dated March 12, 2015.

# 2.2 GROUNDWATER

The seasonal high groundwater levels were estimated by Dunkelberger Engineering & Testing, Inc. and are included as part of their Geotechnical Engineering Report. Based on the report and the existing ERP permit, it is estimated that the seasonal high groundwater



level is at an elevation of 15.00' in the vicinity of proposed Dry Retention 1A & 1B, 14.00' in the vicinity of Dry Retention 2, and 13.00' in the vicinity of proposed Dry Retention 3 and Wet Detention 4. The estimated SHWL for the wetlands were field set, surveyed and permitted as 14.95' for Wetland 1 and 12.62 for Wetland 2. Please refer to the attached, under separate cover, a copy of the aforementioned Geotechnical Exploration Report and the previously approved Stormwater Management Report.

#### 2.3 FLOODZONE

The project site lies entirely within Flood Zone "X" (See Exhibit C), and as shown on FEMA Map Number 12085C0301G, dated March 3, 2015. Flood Zone "X" denotes areas outside of a designated 100-year flood plain.

## 2.4 ENVIRONMENTAL SUMMARY

Two existing wetlands are located onsite and have been surveyed by GCY, Inc. and approved by SFWMD, as part of the existing ERP No. 43-02792-P. The existing wetland SHWLs and stage/storage relationships have also been approved by the SFWMD and Martin County. There are no proposed wetland impacts associated with this proposed development.

## 2.5 PRE-DEVELOPMENT DRAINAGE

The existing pre-development drainage characteristics are detailed and discussed within the previously permitted SFWMD ERP No. 43-02792-P.

#### 2.6 PRE-DEVELOPMENT DISCHARGE RATES

The pre-development discharge rates of the Treasure Coast Classical Academy project were previously determined and documented within the "Stormwater Management Report" of the previously approved Driftwood Cay – Cove Road ERP No. 43-02792-P. Per ERP No. 43-02792-P, the permitted pre-development discharge rates for the Treasure Coast Classical Academy project is 8.13 cfs.



# 3 PROPOSED DEVELOPMENT

The proposed development, "Treasure Coast Classical Academy", located on a ±14.22-acre parcel in Martin County, Florida, includes the proposed development of an educational institution building at 65,000 s.f. (2 story), recreational fields, 3.30 acres of upland preserve area, and vehicular parking areas along with the associated stormwater management system. The project area is comprised of six (6) post-development basins (Basin B1, Basin B2, Basin B3-A, Basin B3-B, Basin B3-C, and Basin B4) and a stormwater management system that is designed to treat and attenuate runoff from the 25-yr/3-day storm event per SFWMD and Martin County criteria. The proposed stormwater management system will be a major modification to the previously approved SFWMD ERP No. 43-02792-P. The proposed storm water management system has been designed to comply with the South Florida Water Management District and Martin County.

	Post-Development Basin Summary Table						
Basin Name Basin B1 Ba		Basin B2	Basin B3-A	Basin B3-B	Basin B3-C	Basin B4	
Area	1.00 acres	7.37 acres	2.95 acres	1.16 acres	3.87 acres	4.98 acres	
CN	95	89	91	86	89	85	
TC	10.0 min.	30.0 min.	10.0 min.	10.0 min.	10.0 min.	25.0 min.	
Discharge Point	Basin B2	Basin B4	Basin B3-C	Basin B3-C	Basin B4	The Atlantic Ridge Preserve State Park	

## 3.1 REQUIRED PERMITS AND REVIEWS

- Martin County Major Final Site Plan Review
- South Florida Water Management District (SFWMD) Environmental Resource Permit (Major Modification)
- NPDES
- FDEP Water & Sewer

# 3.2 POST-DEVELOPMENT STORM DESIGN PARAMETERS

Per the previously permitted and approved SFWMD ERP No. 43-02792-P, the following design storms will be utilized:

Storm Frequency	Storm Duration	Rainfall
100 Years	3 Days	15.00 Inches
25 Years	3 Days	12.00 Inches
10 Years	1 Day	7.00 Inches
3 Years	1 Day	5.25 Inches



# 3.3 STORMWATER MANAGEMENT/BASINS

The stormwater management system is designed to meet the requirements of the SFWMD, and Martin County. As previously mentioned, the proposed project consists of six (6) post-development basins (Basin B1, Basin B2, Basin B3-A, Basin B3-B, Basin B3-C, and Basin 4). Control structures within the proposed ponds (Dry Retention 1A & 1B, Dry Retention 2, Dry Retention 3, and Wet Detention 4) have been designed to attenuate stormwater runoff to a flow rate less than the pre-development condition and to provide pollution abatement. Proposed control structures within Wetlands 1 and 2 have been designed to preserve their natural wetland hydroperiods and maintain pre-development storm-event stages within an acceptable range. As stated in the previously approved and permitted SFWMD ERP No. 43-02792-P, an existing 3" diameter bleeder that allows the dry detention areas of the adjacent Samaritan House for Boys site to discharge throughout the site (App#120927-6). This discharge will be routed through the site via a shallow depressional area and stormwater pipes to the proposed development outfall, not contributing to the overall drainage basin calculations. Stormwater control structures within the proposed stormwater management system and associated conveyance system will limit flow to an amount less than the pre-development discharge rate towards the Atlantic Ridge Preserve State Park. Please see Exhibit D for the post-development drainage basin map.

#### 3.3.1 CN CALCULATIONS

The post-development curve numbers have been calculated utilizing the SCS Tr-55 methodology. The basin has been broken down into different soil types and assigned a Hydrologic Soil Group classification. Based on land cover, a curve number was then assigned. (See Appendix 1).

# 3.3.2 TIME OF CONCENTRATION

The post-development time of concentration for Basin B1, Basin B3-A, Basin B3-B, and Basin B3-C are the minimum value of 10 minutes. Basin B2 and Basin B4 have time of concentration values of 30 minutes and 25 minutes, respectively, matching the basin time of concentration values set in the previously permitted and approved SFWMD ERP No. 43-02792-P.

# 3.3.3 TREATMENT VOLUME (TV)

The proposed storm water management system will contain three dry retention ponds and one wet detention pond to treat the stormwater runoff.

The following table summarizes the most stringent treatment volume required:



		SFWMD Criteria**			Martin County Required Treatment Volume
			2.5" x	Required Treatment	3" x Impervious
	Basin		Impervious	Volume for Nutrient	Area (w/o wetland
Discharge	Area	1" Over Site	Area	Analysis	or buffer)
Point	(ac)	(ac-ft)	(ac-ft)	(ac-ft)	(ac-ft)
Basin B1	1.00	0.08*	0.09*	0.09	0.15
		Total 0.0		0.09	0.15
Basin B3-A	2.95	0.18*	0.28*	0.28	0.45
Basin B3-B	1.16	0.05*	0.05*	0.05	0.08
Basin B3-C	3.87	0.26	0.13	0.26	0.15***
			Total	0.59	0.68

<sup>\*</sup> SFWMD required treatment volume reduced by 50% for using dry retention

<sup>\*\*\*</sup> Martin County required treatment volumes increased by 50% for using wet detention

Treatment Volume Provided				
Dry Retention 1A & 1B (Basin B1)	0.16 acft.			
Total	0.16 ac-ft.			
Dry Retention 2 (Basin B3-A)	0.12 acft.			
Dry Retention 3 (Basin B3-B)	0.14 acft			
Wet Detention 4 (Basin B3-C)	0.49 acft			
Total	0.75 ac-ft.			

# 3.3.4 POND STAGE/STORAGE

See *Appendix 2* for Dry Retention 1A & 1B, Dry Retention 2, Dry Retention 3, and Wet Detention 4 Stage/Storage Relationships.

# 3.3.5 TV RECOVERY

The required TV in a dry retention pond must be recovered within 72 hours. The TV recovery within the dry retention pond is accomplished by percolation. PONDS (Version 3.3) was used to demonstrate that the dry retention ponds recover their required TVs through percolation within 72 hours. Please refer to the attached Geotechnical Report for permeability rates and S.H.W.T. elevations, and *Appendix 4* for drawdown analysis and infiltration rates.



<sup>\*\*</sup> SFWMD required treatment volumes increased by 50% for impaired waterbody

# 3.3.6 NET NUTRIENT IMPROVEMENT ANALYSIS

The proposed development has been designed to meet the maximum water quality for both SFWMD and Martin County criteria, as well as the water quality required for nutrient loading. The BMPTRAINS model utilizes the pre-development land use of "Upland Forests" with the associated runoff concentrations of Nitrogen and Phosphorous as used in the previously permitted and approved SFWMD ERP No. 43-02792-P, while the post-development land use is set as "Low-Intensity Commercial". The required, nutrient loading water quality treatment volume has been provided within the dry retention and wet detention stormwater management system (See Appendix 5).

#### 3.3.7 WATER QUALITY ANALYSIS

For stormwater management systems utilizing both dry retention and wet detention, half of the required treatment volumes must be recovered between 24 hours and 5 days. A stormwater management system utilizing both dry retention and wet detention must also recover 90% of the 25Y/3D runoff volume in 12 days from the cessation of the storm event. The Node Time Series Report from ICPR indicates the time at which the attenuation volume is fully recovered within all ponds (at the stages of the proposed treatment volumes). The Detailed Results report from PONDS (Version 3.3) then indicates the time from when the dry retention ponds at the provided treatment volume stage recover half their treatment volumes and full runoff volume recovery. For Wet Detention 4, the recovery requirements are both shown in Appendix 3. The table below summarizes the aforementioned recovery times:

Recovery Times				
Pond Name	Half of Treatment Volume	>90% Runoff Volume		
Dry Retention 1A & 1B	82.39 Hours (3.4 Days)	117.43 Hours (4.9 Days)		
Dry Retention 2	95.70 Hours (4.0 Days)	147.83 Hours (6.2 Days)		
Dry Retention 3	101.14 Hours (4.2 Days)	156.17 Hours (6.5 Days)		
Wet Detention 4	110.83 Hours (4.6 Days)	80.00 Hours (3.3 Days)		

Please see *Appendix 3* for the ICPR Node Time Series Report, as well as Appendix 4 for the PONDS Detailed Results Report.

#### 3.3.8 POST-DEVELOPMENT RUNOFF

As previously mentioned, the storm water runoff from Basin B1, Basin B3-A and Basin B3-B will be managed through three (3) dry retention ponds (Dry Retention 1A & 1B, Dry Retention 2, and Dry Retention 3) and one (1) wet detention pond



(Wet Detention 4) designed to attenuate the post-development discharge rates. ICPR has been used to route the storm water runoff from the development through the storm water management system. The storm water management system has been designed such that the proposed development discharge rates do not exceed the pre-development discharge rates for the 25Y/3D storm-event. Furthermore, with a minimum proposed pavement elevation of 17.25' adjacent to Dry Retention 1A & 1B, 17.00' adjacent to Dry Retention 2, 16.25' adjacent to Dry Retention 3 and Wet Detention 4, and building F.F.E. of 18.25' for the proposed development, the proposed stormwater management system has been designed as to meet all minimum height requirements per Martin County. Furthermore, proposed runoff calculations using TR-55 methods were used to determine the required site storage to contain the 100Y/3D storm without discharge to an elevation below the proposed FFE (Appendix 3). The cumulative volume of the proposed site (11.06) ac-ft) at the proposed FFE of 18.25' exceeds the required volume (10.29 ac-ft) at elevation 18.13'. The following tables summarize the stage and discharge results from the post-development ICPR model:

Pond Stages					
			jes	,	
Pond Name	Top of Bank	100Y/3D	25Y/3D	10Y/1D	3Y/1D
Foria Name	тор от ванк	Stage	Stage	Stage	Stage
Dry Retention 1A & 1B	17.25′	17.06′	17.03′	16.98′	16.93′
Dry Retention 2	17.00′	16.94′	16.58′	16.32′	16.18′
Dry Retention 3	16.25′	16.20′	16.00′	15.70′	15.45′
Wet Detention 4	16.25′	15.47′	15.10′	14.58′	14.16′

Wetland Maximum Stages					
	100Y/3D	25Y/3D	10Y/1D	3Y/1D	
	Stage	Stage	Stage	Stage	
	Wetland 1 (SHWL = 14.95 NAVD)				
Pre-	16.07 NAVD	15.99 NAVD	15.63 NAVD	15.45 NAVD	
Post-	16.15 NAVD	15.92 NAVD	15.58 NAVD	15.46 NAVD	
	Wetland 2 (SHWL = 12.62 NAVD)				
Pre-	14.22 NAVD	14.11 NAVD	13.78 NAVD	13.63 NAVD	
Post-	14.80 NAVD	14.53 NAVD	13.93 NAVD	13.60 NAVD	

Pre/Post-Development Runoff Comparison				
25Y/3D (SFWMD)				
	Pre-Development	Post-Development		
Discharge (cfs)	8.13*	7.86		

<sup>\*</sup> Pre-development discharge rate previously permitted and approved per SFWMD ERP No. 43-02792-P



# 3.4 WETLAND IMPACTS

There are no proposed wetland impacts associated with this proposed development.

#### 3.5 FLOOD PLAIN IMPACTS

As the project site lies entirely within Flood Zone "X", there are no proposed flood plain impacts associated with this proposed development.

#### 4 SYSTEM CONSTRUCTION AND MAINTENANCE

Construction of the proposed project will be finished in one phase. Erosion control methods will be utilized to prevent siltation to surrounding areas. The surface water management system will be maintained and operated by the Developer.

#### 5 COMPLIANCE STATEMENT

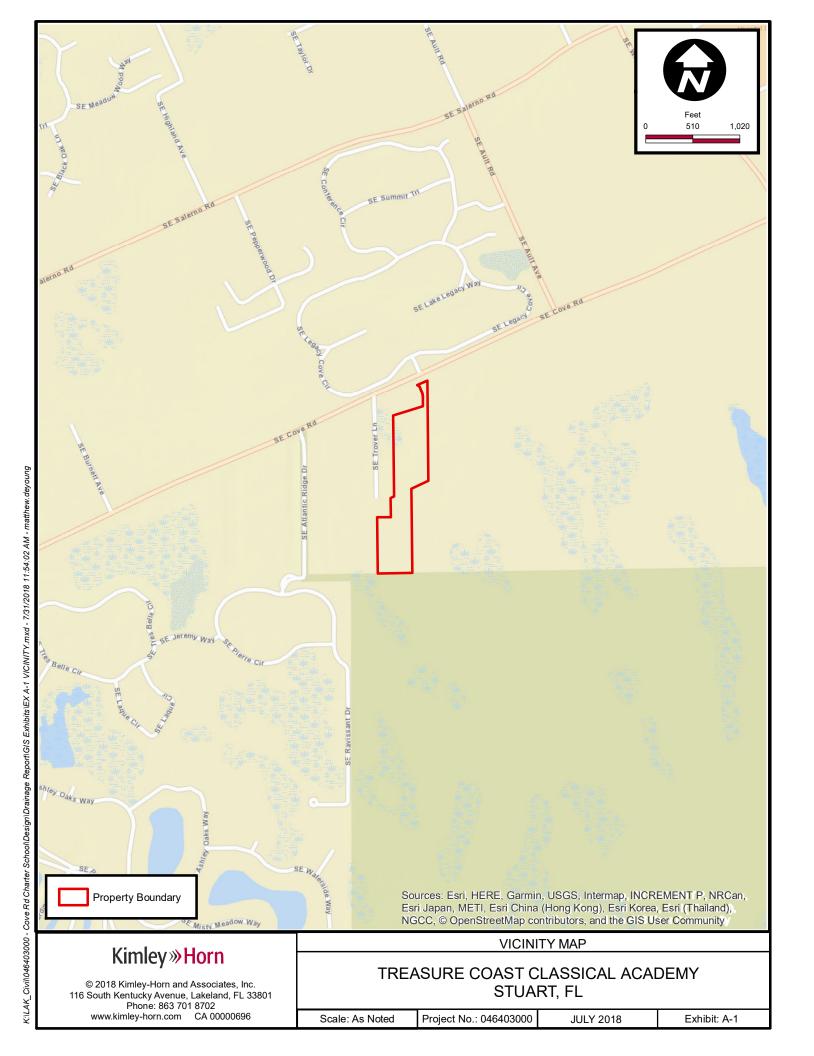
I, Jordan L. Haggerty, P.E., do certify to Martin County that the application for the Treasure Coast Classical Academy has been designed in full compliance with Division 9 of Article 4 of the Martin County Land Development Regulations (LDR). I acknowledge that Martin County's LDR may and do include requirements that are more stringent or restrictive than the requirements of other regulatory agencies including, but not limited to, the South Florida Water Management District (SFWMD), the U.S. Army Corps of Engineers (USACOE), the U.S. Environmental Protection Agency (EPA) and the Florida Department of Environmental Protection (FDEP). Any plans, calculations, reports, or other documents submitted to Martin County or any regulatory agency in support of the application have been prepared in full recognition of and compliance with Martin County LDR.



# EXHIBIT A LOCATION MAPS

General Vicinity Map Aerial Photograph USGS Quad Map





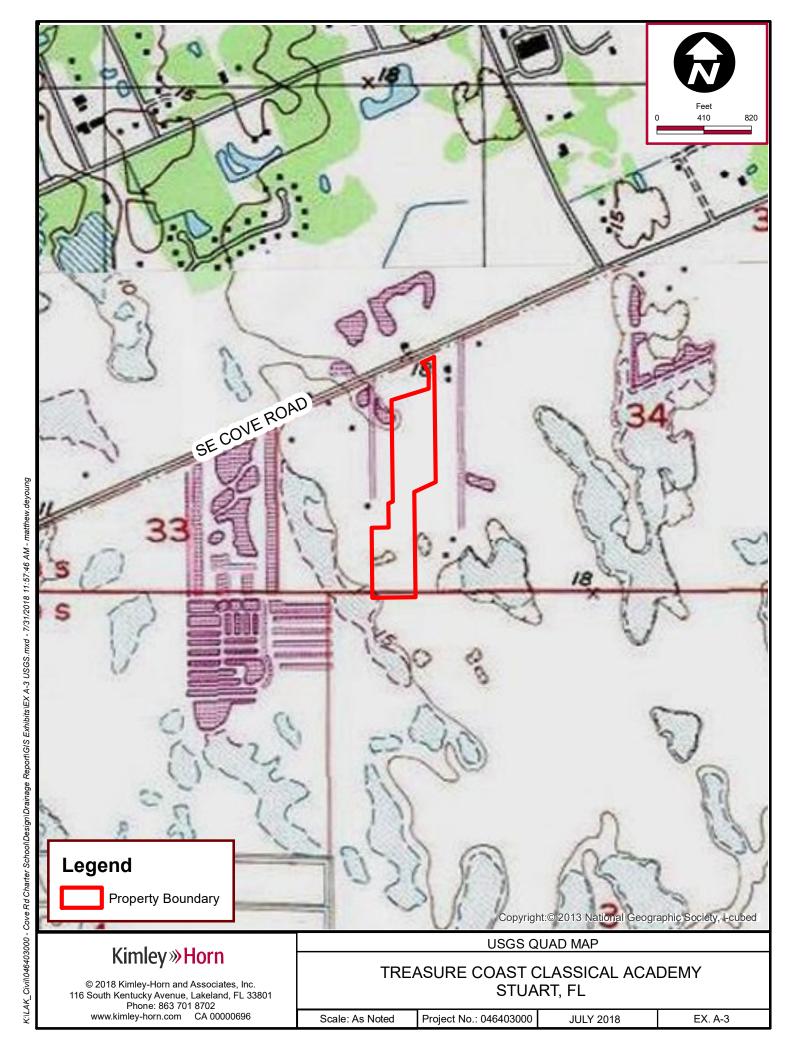


# Kimley » Horn

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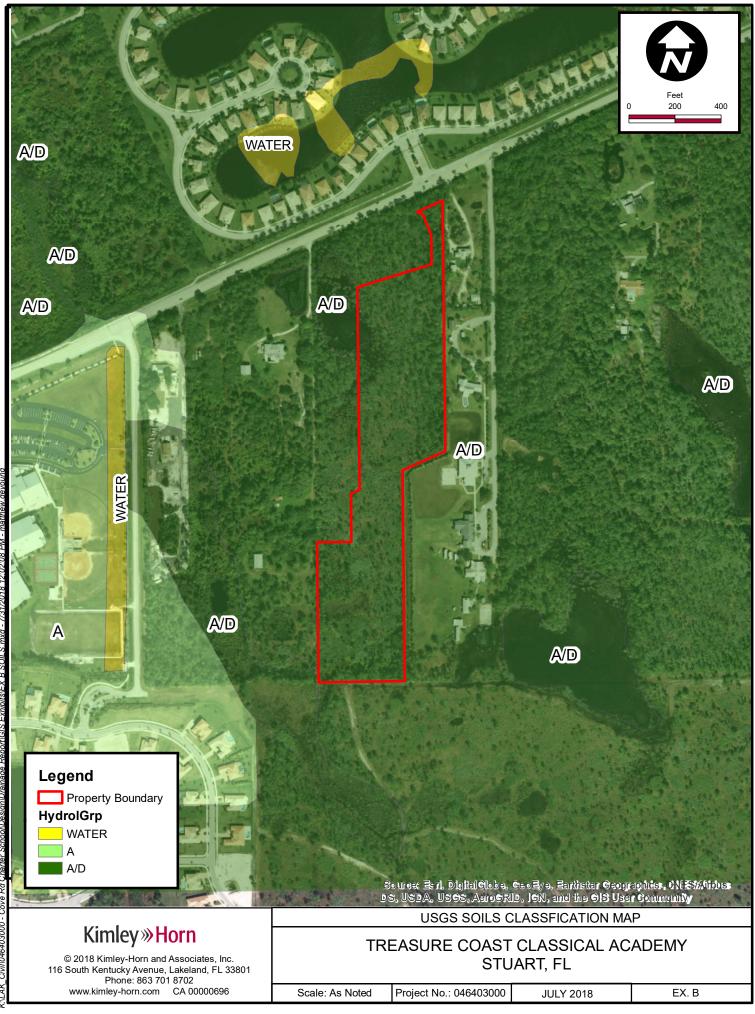
# TREASURE COAST CLASSICAL ACADEMY STUART, FL

Scale: As Noted Project No.: 046403000 JULY 2018 Exhibit: A-2



# EXHIBIT B

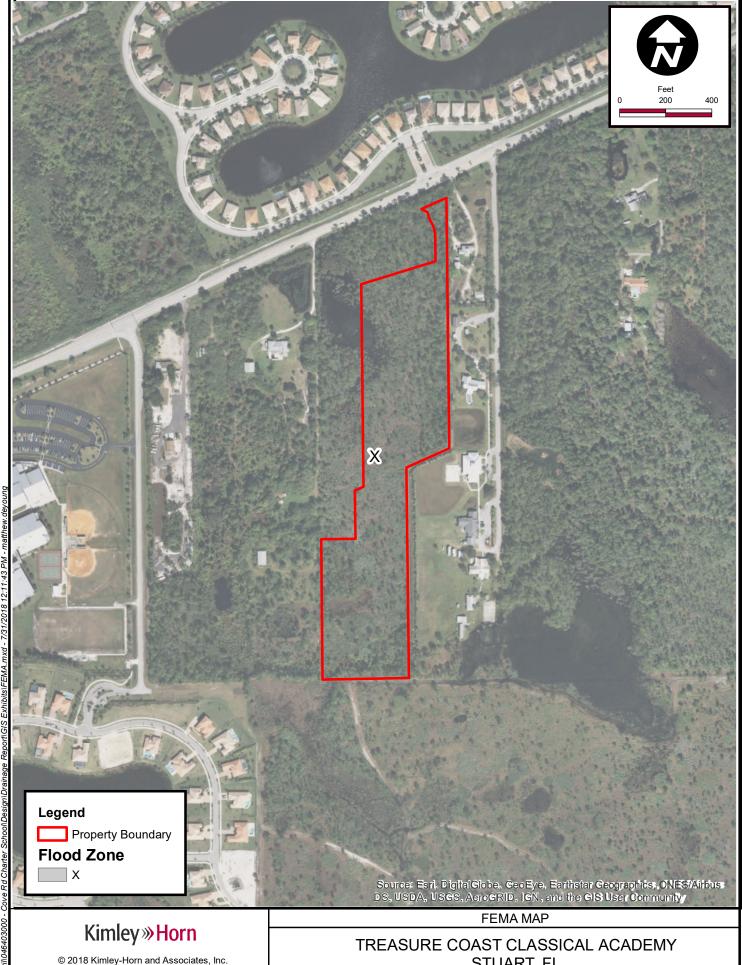
# NRCS SOIL SURVEY



K:\! AK Civil\046403000 - 0

# EXHIBIT C

# FEMA FLOOD INSURANCE RATE MAP



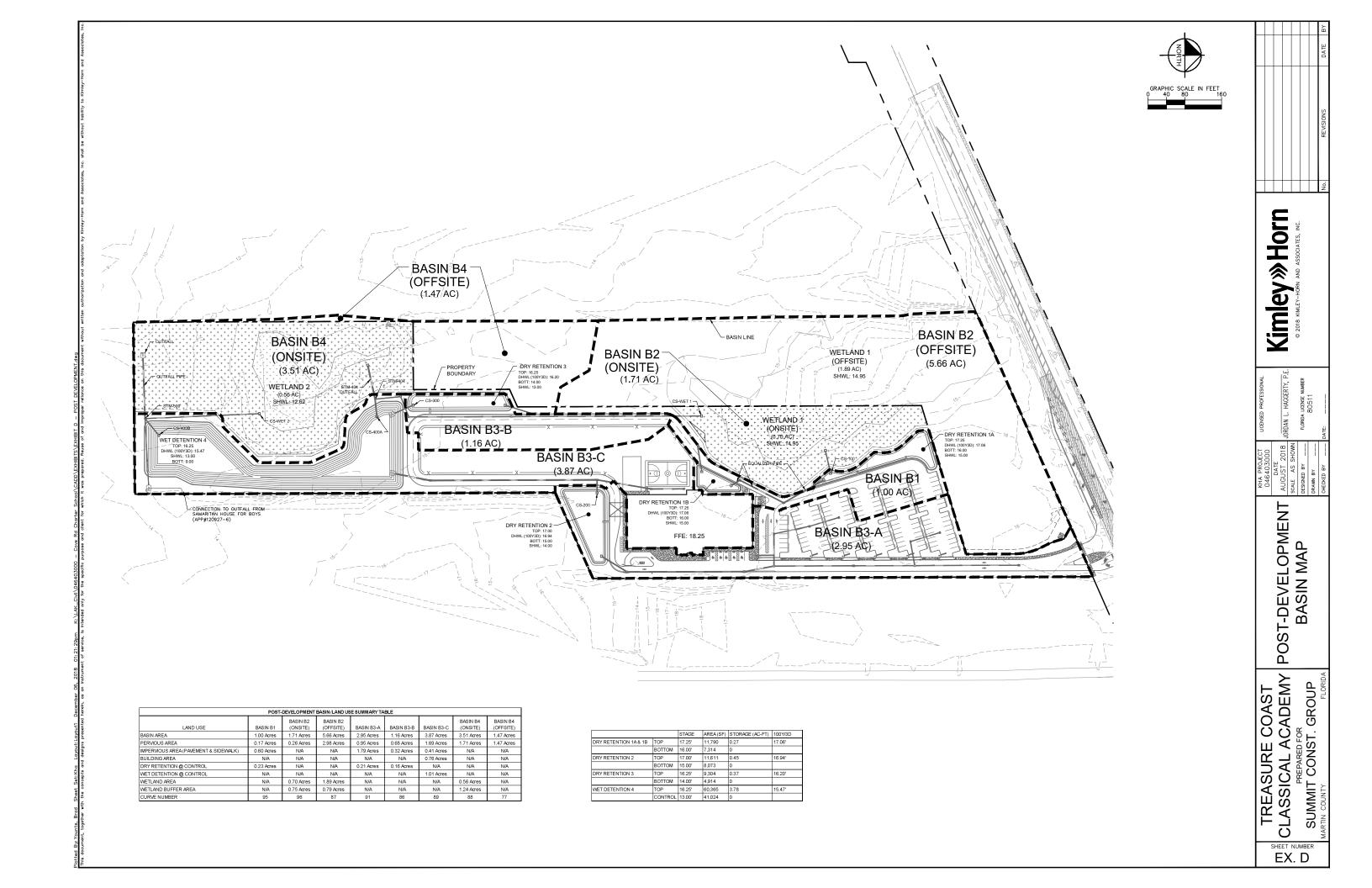
© 2018 Kimley-Horn and Associates, Inc. 116 South Kentucky Avenue, Lakeland, FL 33801 Phone: 863 701 8702 www.kimley-horn.com CA 00000696

STUART, FL

Scale: As Noted Project No.: 046403000 **JULY 2018** EX. C

# EXHIBIT D

# POST-DEVELOPMENT DRAINAGE BASIN MAP



# APPENDIX 1

# CURVE NUMBER CALCULATIONS

KIMLEY-HORN AND ASSOCIATES, INC.					
PROJECT TITLE:	TREASURE COAST O	LASSICAL ACADEMY			
PROJECT NUMBER:	046403000			DATE	
BASIN DESIGNATION:	BASIN B1	MADE BY:	BAY	12/05/18	
BASIN ANALYSIS (PRE/POST):	POST	CHECKED BY:	ЛLН		

Description /	Soil		Area	
Soil Name	Group	CN	(ac)	Product
#4 - Waveland and Immokalee fine sands	A/D	77	0.17	13.09
Onsite Impervious	-	98	0.60	58.80
Dry Retention 1 @ Required Treatment	-	100	0.23	23.00
		TOTALS	1.00	94.89

KIMLEY-HORN AND ASSOCIATES, INC.					
PROJECT TITLE:	TREASURE COAST (	CLASSICAL ACADEMY			
PROJECT NUMBER:	046403000			DATE	
BASIN DESIGNATION:	BASIN B2	MADE BY:	BAY	12/05/18	
BASIN ANALYSIS (PRE/POST):	POST	CHECKED BY:	ЛLН		

Description /	Soil		Area	
Soil Name	Group	CN	(ac)	Product
#4 - Waveland and Immokalee fine sands	A/D	77	3.24	249.48
Wetland 1	-	100	2.59	259.00
Wetland 1 buffer area	-	98	1.54	150.92
		TOTALS	7.37	659.40

COMPOSITE CN	89
--------------	----

KIMLEY-HORN AND ASSOCIATES, INC.					
PROJECT TITLE:	TREASURE COAST CLAS	SSICAL ACADEMY			
PROJECT NUMBER:	046403000			DATE	
BASIN DESIGNATION:	BASIN B3-A	MADE BY:	BAY	12/05/18	
BASIN ANALYSIS (PRE/POST):	POST	CHECKED BY:	JLH		

Description /	Soil		Area	
Soil Name	Group	CN	(ac)	Product
#4 - Waveland and Immokalee fine sands	A/D	77	0.95	73.15
Onsite Impervious	-	98	1.79	175.42
Dry Retention 2 @ Required Treatment	-	100	0.21	21.00
		TOTALS	2.95	269.57

COMPOSITE CN	91
--------------	----

KIMLEY-HORN AND ASSOCIATES, INC.					
PROJECT TITLE:	TREASURE COAST CLA	SSICAL ACADEMY			
PROJECT NUMBER:	046403000			DATE	
BASIN DESIGNATION:	BASIN B3-B	MADE BY:	BAY	12/05/18	
BASIN ANALYSIS (PRE/POST):	POST	CHECKED BY:	JLH		

Description /	Soil		Area	
Soil Name	Group	CN	(ac)	Product
#4 - Waveland and Immokalee fine sands	A/D	77	0.68	52.36
Onsite Impervious	-	98	0.32	31.36
Dry Retention 3 @ Required Treatment	-	100	0.16	16.00
		TOTALS	1.16	99.72

COMPOSITE CN	86
--------------	----

KIMLEY-HORN AND ASSOCIATES, INC.					
PROJECT TITLE: TREASURE COAST CLASSICAL ACADEMY					
PROJECT NUMBER:	046403000				
BASIN DESIGNATION:	BASIN B3-C	MADE BY:	BAY	12/05/18	
BASIN ANALYSIS (PRE/POST):	POST	CHECKED BY:	JLH		

Description /	Soil		Area	
Soil Name	Group	CN	(ac)	Product
#4 - Waveland and Immokalee fine sands	A/D	77	1.69	130.13
Onsite Impervious	-	98	0.41	40.18
Wet Detention 4 @ Control	-	100	1.01	101.00
Roof Area	-	98	0.76	74.48
		TOTALS	3.87	345.79

COMPOSITE CN	89
--------------	----

KIMLEY-HORN AND ASSOCIATES, INC.					
PROJECT TITLE: TREASURE COAST CLASSICAL ACADEMY					
PROJECT NUMBER:	046403000	DATE			
BASIN DESIGNATION:	BASIN B4	MADE BY:	BAY	12/05/18	
BASIN ANALYSIS (PRE/POST):	POST	CHECKED BY:	ЛLН		

Description /	Soil		Area	
Soil Name	Group	CN	(ac)	Product
#4 - Waveland and Immokalee fine sands	A/D	77	3.18	244.86
Wetland 2	-	100	0.56	56.00
Wetland 2 buffer area	-	98	1.24	121.52
		TOTALS	4.98	422.38

COMPOSITE CN	85
--------------	----

# APPENDIX 2

# TREATMENT VOLUME, STAGE/STORAGE, AND ORIFICE CALCULATIONS

 $\begin{array}{c} \text{Basin Area (acres)} = & 1.00 \\ \text{Impervious Area (acres)} = & 0.60 \\ \text{POND} = & Dry \, \text{Retention 1A \& 1B} \end{array}$ 

# POND STAGE/STORAGE

POND TOP ELEVATION (NAVD)	17.25
POND BOTTOM ELEVATION (NAVD)	16.00
TOP AREA OF POND (SF)	11,790
BOTTOM AREA OF POND (SF)	7,314
TOTAL VOLUME OF POND (CF)	11940

POND STAGE (NAVD)	DEPTH IN POND (FT)	POND SURFACE AREA (SF)	CUMULATIVE VOLUME (CF)	CUMULATIVE VOLUME (AC-FT)
17.25	1.25	11790.0	11940	0.27
17.00	1.00		9104	0.21
16.80	0.80		6997	0.16
16.50	0.50		4105	0.09
16.00	0.00	7314.0	0	0.00

Control/ Provided Treatment Vol.

 $\begin{array}{c} \text{Basin Area (acres) =} & \underline{2.95} \\ \text{Impervious Area (acres) =} & \underline{1.79} \\ \text{POND} & \underline{\text{Dry Retention 2}} \end{array}$ 

# POND STAGE/STORAGE

POND TOP ELEVATION (NAVD)	17.00
POND BOTTOM ELEVATION (NAVD)	15.00
TOP AREA OF POND (SF)	11,611
BOTTOM AREA OF POND (SF)	8,073
TOTAL VOLUME OF POND (CF)	19684

POND STAGE (NAVD)	DEPTH IN POND (FT)	POND SURFACE AREA (SF)	CUMULATIVE VOLUME (CF)	CUMULATIVE VOLUME (AC-FT)
17.00	2.00	11611.0	19684	0.45
16.50	1.50		14100	0.32
16.00	1.00		8958	0.21
15.60	0.60		5162	0.12
15.50	0.50		4258	0.10
15.00	0.00	8073.0	0	0.00

Control/ Provided Treatment Vol.

 $\begin{array}{c} \text{Basin Area (acres)} = & 1.16 \\ \text{Impervious Area (acres)} = & 0.32 \\ \text{POND} & \text{Dry Retention 3} \end{array}$ 

# POND STAGE/STORAGE

POND TOP ELEVATION (NAVD)	16.25
POND BOTTOM ELEVATION (NAVD)	14.00
TOP AREA OF POND (SF)	9,304
BOTTOM AREA OF POND (SF)	4,914
TOTAL VOLUME OF POND (CF)	15995

POND STAGE (NAVD)	DEPTH IN POND (FT)	POND SURFACE AREA (SF)	CUMULATIVE VOLUME (CF)	CUMULATIVE VOLUME (AC-FT)
16.25	2.25	9304.0	15995	0.37
16.00	2.00		13730	0.32
15.50	1.50		9566	0.22
15.00	1.00		5890	0.14
14.50	0.50		2701	0.06
14.00	0.00	4914.0	0	0.00

Control/ Provided Treatment Vol.

Basin Area (acres) =	3.87
Impervious Area (acres) =	2.18
POND	Wet Detention 4

# POND STAGE/STORAGE

POND TOP ELEVATION (NAVD)	16.25
POND BOTTOM ELEVATION (NAVD)	9
TOP AREA OF POND (SF)	60,365
BOTTOM AREA OF POND (SF)	19,809
TOTAL VOLUME OF POND (CF)	286,423

	CUMULATIVE VOLUME (AC-FT)	CUMULATIVE VOLUME (CF)	POND SURFACE AREA (SF)	DEPTH IN POND (FT)	POND STAGE (NAVD)
	3.78	164757	60365.0	3.25	16.25
	3.44	149852		3.0	16.0
	2.16	93950		2.0	15.0
	1.34	58360		1.3	14.30
	1.01	44000		1.0	14.0
Treatment Vol.	0.49	21256		0.5	13.5
SHWT / Control	0.00	0	41024.0	0.0	13.0
_					
	2.79	121666	41024.0	4.0	13.0
	1.91	83294		3.0	12.0
	1.15	50226		2.0	11.0
	0.52	22461		1.0	10.0
	0.00	0	19809.0	0.0	9.0

# **SFWMD - BLEED-DOWN CALCULATIONS**

#### **WET DETENTION 4**

Basin Area = 3.87 acres

Pervious Area = 1.69 acres

Water surface area = 1.01 acres

Roof Area = 0.76 acres

Impervious Area (Excluding water surface/roof area) = 0.41 acres

1. Volume to be discharged in the first 24 hours is 0.5 inch of the required detention:

= 0.5 inch x (total site - lakes)

= 0.5 inch x (3.87 ac. - 1.01 ac.) x (1ft/12in)

= 0.12 ac-ft. = 0.060 cfs

ALLOWBALE DISCHARGE VOLUME = 0.12 ACRE-FT. = 0.06 CFS

2. Size control device/bleed-down mechanism for detention system:

Size Control Structure: Choose circular orifice Required Detention Volume= 0.12 ac-ft

= 0.060 cfs

Design Head = 0.50 ft
Area = 0.0177 sf
Diameter = 1.80 in.

CALCULATED CIRCULAR ORIFICE DIAMETER = 1.8 IN.

NOTE: MINIMUM 3-INCH CIRCULAR ORIFICE WILL BE UTILIZED FOR POND DESIGN

# APPENDIX 3

# POST DEVELOPMENT DRAINAGE ROUTING ANALYSIS (ICPR)

Network Layout
Input Report
Basin Summary
Node Min/Max Report
Node Time Series Report
Link Min/Max Report
Runoff Volume Calculations
100Y/3D Zero-Discharge Stage/Storage

# NETWORK LAYOUT Nodes

A Stage/Area V Stage/Volume T Time/Stage

M Manhole

Basins

O Overland Flow U SCS Unit CN

S SBUH CN Y SCS Unit GA

Links P Pipe

Z SBUH GA

W Weir

C Channel

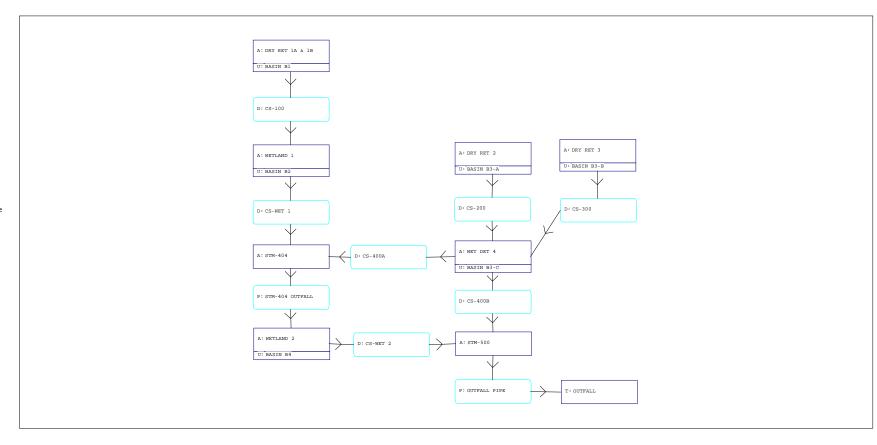
D Drop Structure

B Bridge R Rating Curve

H Breach E Percolation

F Filter

X Exfil Trench



```
---- Basins ------
______
                                                Node: DRY RET 1A & 1B
          Name: BASTN B1
                                                                                    Status: Onsite
                                               Type: SCS Unit Hydrograph CN
         Group: BASE
         Unit Hydrograph: Uh256
                                                           Peaking Factor: 256.0
   Rainfall File:
Rainfall Amount(in): 0.000
Area(ac): 1.000
Curve Number: 95.00
                                                   Storm Duration(hrs): 0.00
                                                Time of Conc(min): 10.00
Time Shift(hrs): 0.00
Max Allowable Q(cfs): 999999.000
                  DCIA(%): 0.00
         Name: BASIN B2 Node: WETLAND 1
Group: BASE Type: SCS Unit Hydrograph CN
                                                                                  Status: Onsite
        Group: BASE
                                               Peaking Factor: 256.0
   Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 30.00
Area(ac): 7.370 Time Shift(hrs): 0.00
Curve Number: 89.00 Max Allowable Olafo: 0000
                                                   Max Allowable Q(cfs): 999999.000
         Name: BASIN B3-A
                                           Node: DRY RET 2
Type: SCS Unit Hydrograph CN
                                                                                   Status: Onsite
        Group: BASE
        Unit Hydrograph: Uh256
                                                           Peaking Factor: 256.0
    | Rainfall File: | Storm Duration(hrs): 0.00 |
| Rainfall Amount(in): 0.000 | Time of Conc(min): 10.00 |
| Area(ac): 2.950 | Time Shift(hrs): 0.00 |
| Curve Number: 91.00 | Max Allowable Q(cfs): 999999.000 |
                  DCIA(%): 0.00
         Name: BASIN B3-B Node: DRY RET 3 Status: Onsite Group: BASE Type: SCS Unit Hydrograph CN
        Group: BASE
   Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 10.00
Area(ac): 1.160 Time Shift(hrs): 0.00
Curve Number: 86.00 Max Allowable O(afr): 000000
                                                   Max Allowable Q(cfs): 999999.000
                  DCIA(%): 0.00
         Name: BASIN B3-C Node: WET DET 4
Group: BASE Type: SCS Unit Hydrograph CN
                                                                                  Status: Onsite
         Group: BASE
                                              Peaking Factor: 256.0
Storm Duration(hrs): 0.00
Time of Conc(min): 10.00
Time Shift(hrs): 0.00
Max Allowable Q(cfs): 999999.000
       Unit Hydrograph: Uh256
Rainfall File:
    Rainfall File:
Rainfall Amount(in): 0.000
Area(ac): 3.870
Curve Number: 89.00
DCTA(%): 0.00
                                            Node: WETLAND 2
Type: SCS Unit Hydrograph CN
         Name: BASIN B4
                                                                                    Status: Onsite
    Group: BASE

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 25.00
Time Shift(hrs): 0.000
         Group: BASE
                                                    Max Allowable Q(cfs): 999999.000
            Curve Number: 85.00
                 DCIA(%): 0.00
--- Nodes -----
      Name: DRY RET 1A & 1B Base Flow(cfs): 0.000
                                                                            Init Stage(ft): 16.070
     Group: BASE
                                                                             Warn Stage(ft): 17.250
      Type: Stage/Area
```

Stage(	(ft)	Area(ac)							
16.	.000	0.1700 0.2700							
Group:	DRY RET 2 BASE Stage/Area		Base	Flow(cfs):	0.000		<pre>Stage(ft): Stage(ft):</pre>		
	ft)								
17.	.000								
Name: Group:	DRY RET 3		Base	Flow(cfs):	0.000		Stage(ft): Stage(ft):		
	(ft)								
	.000								
Group:	OUTFALL BASE Time/Stage		Base	Flow(cfs):	0.000		Stage(ft): Stage(ft):		
	nrs)								
999	0.00 9.00	12.000 12.000							
Name: Group:	STM-404 BASE Stage/Area		Base	Flow(cfs):	0.000		Stage(ft): Stage(ft):		
Stage(	ft)	Area(ac)							
10.		0.0004							
Group:	STM-500 BASE Stage/Area		Base	Flow(cfs):	0.000		Stage(ft): Stage(ft):		
	(ft)								
11. 15.	.500 .580	0.0004 0.0004							
Name: Group:	WET DET 4			Flow(cfs):	0.000	Init	Stage(ft): Stage(ft):	13.000	
	[ft)								
13.	.000	0.9400 1.3900							
Name: Group:	WETLAND 1 BASE Stage/Area			Flow(cfs):	0.000		Stage(ft): Stage(ft):		
Stage/Storag			ed (E	ERP No. 43-0	)2792-P)				
	(ft) 								

11.400	0.0010	
11.500	0.1800	
	0.3400	
	4.1300 7.3200	
Name: WETLAND 2	Base Flow(cfs): 0.000	Init Stage(ft): 12.620
Group: BASE		Warn Stage(ft): 14.000
Type: Stage/Area		
Stage/Storage previously	permitted (ERP No. 43-02792-P)	
Stage(ft) Ar	rea(ac)	
12.000	0.0500	
13.000 14.000	3.2600	
Name: PERC- DRY RET	1 Croup: DACE	
Type: Rating Curve	1 Group: BASE	
Function: Head vs. Disc	harge	
Head(ft) Discharg		
0.00	0.07	
1.00	0.11	
Name: PERC- DRY RET Type: Rating Curve	2 Group: BASE	
Function: Head vs. Disc	harge	
Head(ft) Discharg		
0.00	0.03	
	0.03	
	0.04 0.06	
	0.09	
Name: PERC- DRY RET	3 Group: BASE	
Type: Rating Curve	,	
Function: Head vs. Disc	harge	
Head(ft) Discharg	re(cfs)	
0.00 0.50	0.17 0.14	
1.00	0.14	
1.50	0.66	
==== Pipes ========		
Name: OUTFALL PI		Length(ft): 143.00
Group: BASE	To Node: OUTFALL	Count: 1
UPSTREAM	DOWNSTREAM	Friction Equation: Automatic Solution Algorithm: Most Restrictive
Geometry: Circular	Circular	Flow: Both
Span(in): 24.00	24.00	Entrance Loss Coef: 0.00
Rise(in): 24.00 Invert(ft): 11.500	24.00 11.200	Exit Loss Coef: 1.00 Bend Loss Coef: 0.00
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	Stabilizer Option: None
Upstream FHWA Inlet Edge	Description:	
Circular Concrete: Square		
1 1 1	<del>-</del> ·	

Downstream FHWA Inlet Edge Description: Circular Concrete: Square edge w/ headwall

```
Length(ft): 76.00
         Name: STM-404 OUTFALL From Node: STM-404
                                      To Node: WETLAND 2
                                                                         Count: 1
        Group: BASE
                                                            Friction Equation: Automatic
     UPSTREAM DOWNSTREAM
Geometry: Circular Circular
Span(in): 30.00 30.00
Rise(in): 30.00 30.00
                                                           Solution Algorithm: Most Restrictive
                                                                         Flow: Both
                                                           Entrance Loss Coef: 0.00
                                                            Exit Loss Coef: 1.00
Bend Loss Coef: 0.00
 Invert(ft): 10.500
Manning's N: 0.012000
Top Clip(in): 0.000
Bot Clip(in): 0.000
                               9.000
                               0.012000
                                                             Outlet Ctrl Spec: Use dc or tw
Inlet Ctrl Spec: Use dc
                               0.000
                                                            Stabilizer Option: None
                               0.000
Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall
Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall
______
______
                                   From Node: DRY RET 1A & 1B Length(ft): 45.00
         Name: CS-100
        Group: BASE
                                     To Node: WETLAND 1
                                                                         Count: 1
               UPSTREAM DOWNSTREAM
Circular Circular
                                                            Friction Equation: Automatic
     Geometry: Circular
Span(in): 18.00
                               Circular
                                                           Solution Algorithm: Most Restrictive
                               18.00
                                                           Flow: Both
Entrance Loss Coef: 0.000
     Rise(in): 18.00
                               18.00
                                                              Exit Loss Coef: 1.000
Outlet Ctrl Spec: Use dc or tw
                               12.450
   Invert(ft): 13.500
  Invert(It). 13.500
Manning's N: 0.012000
                               0.012000
 Top Clip(in): 0.000
                               0.000
                                                              Inlet Ctrl Spec: Use dc
 Bot Clip(in): 0.000
                               0.000
                                                                 Solution Incs: 10
Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall
Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall
*** Weir 1 of 1 for Drop Structure CS-100 ***
                                                                                     TABLE
                   Count: 1
                                                  Bottom Clip(in): 0.000
                    Type: Horizontal
                                                      Top Clip(in): 0.000
                                                   Top Cilp(in). ....
Weir Disc Coef: 3.200
                    Flow: Both
                Geometry: Rectangular
                                               Orifice Disc Coef: 0.600
               Span(in): 37.00
                                                        Invert(ft): 16.800
               Rise(in): 49.00
                                                Control Elev(ft): 16.800
         Name: CS-200 From Node: DRY RET 2 Length(ft): 481.00 Group: BASE To Node: WET DET 4 Count: 1
        Group: BASE
     UPSTREAM DOWNSTREAM
Geometry: Circular Circular
Span(in): 24.00 24.00
                                                            Friction Equation: Automatic
                                                            Solution Algorithm: Most Restrictive
     Span(in): 24.00
Rise(in): 24.00
                                                                          Flow: Both
                                                           Entrance Loss Coef: 0.000
                               24.00
   Invert(ft): 12.500
                               9.000
                                                               Exit Loss Coef: 1.000
  Invert(ft): 12.500
Manning's N: 0.012000
For Clin(in): 0.000
                               0.012000
                                                              Outlet Ctrl Spec: Use dc or tw
 Top Clip(in): 0.000
                               0.000
                                                              Inlet Ctrl Spec: Use dc
 Bot Clip(in): 0.000
                               0.000
                                                                 Solution Incs: 10
Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall
Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall
*** Weir 1 of 2 for Drop Structure CS-200 ***
                                                                                      TABLE
                                               Bottom Clip(in): 0.000
Top Clip(in): 0.000
Weir Disc Coef: 3.200
Orifice Disc Coef: 0.600
                   Count: 1
                    Type: Horizontal
                    Flow: Both
                Geometry: Rectangular
                Span(in): 37.00
                                                        Invert(ft): 17.000
               Rise(in): 49.00
                                                 Control Elev(ft): 17.000
```

```
*** Weir 2 of 2 for Drop Structure CS-200 ***
                                                                                               TABLE
                                                 Bottom Clip(in): 0.000
Top Clip(in): 0.000
Weir Disc Coef: 3.200
                     Count: 1
                 Type: Vertical: Mavis
Flow: Both
Geometry: Rectangular

Top Clip(in): 0.000
Weir Disc Coef: 3.200
Orifice Disc Coef: 0.600
                  Span(in): 60.00
                                                               Invert(ft): 15.600
                 Rise(in): 16.80
                                                      Control Elev(ft): 15.600
          Name: CS-300 From Node: DRY RET 3 Length(ft): 56.00
         Group: BASE
                                          To Node: WET DET 4
                                                                                 Count: 1
                 UPSTREAM
                                  DOWNSTREAM
                                                                   Friction Equation: Automatic
     Geometry: Circular
                                                                  Solution Algorithm: Most Restrictive
                                  Circular
      Span(in): 18.00
                                   18.00
                                                                                   Flow: Both
                                                                  Entrance Loss Coef: 0.000
      Rise(in): 18.00
                                   18.00
  Invert(ft): 8.600

Manning's N: 0.012000

Top Clip(in): 0.000
                                   8.500
                                                                      Exit Loss Coef: 1.000
                                   0.012000
                                                                     Outlet Ctrl Spec: Use dc or tw
Inlet Ctrl Spec: Use dc
 Top Clip(in): 0.000
                                   0.000
 Bot Clip(in): 0.000
                                                                        Solution Incs: 10
                                  0.000
Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall
Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall
*** Weir 1 of 2 for Drop Structure CS-300 ***
                                                                                               TABLE
                                                       Bottom Clip(in): 0.000
                     Count: 1
                 Type: Horizontal Top Clip(in): 0.000
Flow: Both Weir Disc Coef: 3.200
Geometry: Rectangular Orifice Disc Coef: 0.600
                 Span(in): 37.00
                                                               Invert(ft): 16.250
                 Rise(in): 49.00
                                                      Control Elev(ft): 16.250
*** Weir 2 of 2 for Drop Structure CS-300 ***
                                                                                                TABLE
                                                       Bottom Clip(in): 0.000
                     Count: 1
                     Type: Vertical: Mavis Top Clip(in): 0.000 Flow: Both Weir Disc Coef: 3.200
                 Geometry: Rectangular
                                                    Orifice Disc Coef: 0.600
                 Span(in): 14.00
                                                               Invert(ft): 15.000
                 Rise(in): 15.00
                                                      Control Elev(ft): 15.000
         Name: CS-400A From Node: WET DET 4 Length(ft): 38.00 Group: BASE To Node: STM-404 Count: 1
                                         To Node: STM-404
         Group: BASE
 UPSTREAM DOWNSTREAM
Geometry: Circular Circular
Span(in): 24.00 24.00
Rise(in): 24.00 24.00
Invert(ft): 12.800 10.500
Manning's N: 0.012000 0.012000
Top Clip(in): 0.000 0.000
                                                                   Friction Equation: Automatic
                                                                  Solution Algorithm: Most Restrictive
                                                                  Flow: Both Entrance Loss Coef: 0.000
                                                                      Exit Loss Coef: 1.000
                                   0.012000
                                                                     Outlet Ctrl Spec: Use dc or tw
 Top Clip(in): 0.000
                                   0.000
                                                                     Inlet Ctrl Spec: Use dc
 Bot Clip(in): 0.000
                                  0.000
                                                                        Solution Incs: 10
Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall
Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall
*** Weir 1 of 2 for Drop Structure CS-400A ***
                                                                                               TARLE
                                                        Bottom Clip(in): 0.000
                     Count: 1
                                                       Top Clip(in): 0.000
Weir Disc Coef: 3.200
                     Type: Horizontal
                      Flow: Both
                 Geometry: Rectangular
                                                    Orifice Disc Coef: 0.600
                 Span(in): 37.00
                                                              Invert(ft): 16.000
                 Rise(in): 49.00
                                                       Control Elev(ft): 16.000
*** Weir 2 of 2 for Drop Structure CS-400A ***
                                                                                                TABLE
                                                       Bottom Clip(in): 0.000
                     Count: 1
                      Type: Vertical: Mavis
                                                           Top Clip(in): 0.000
```

```
Weir Disc Coef: 3.200
                    Flow: Both
                Flow: Both Weir Disc Coef: 3.200
Geometry: Rectangular Orifice Disc Coef: 0.600
                 Span(in): 48.00
                                                            Invert(ft): 13.500
                 Rise(in): 30.00
                                                    Control Elev(ft): 13.500
          Name: CS-400B From Node: WET DET 4 Length(ft): 47.00
                                       To Node: STM-500
                                                                             Count: 1
        Group: BASE
 UPSTREAM DOWNSTREAM
Geometry: Circular Circular
Span(in): 18.00 18.00
Rise(in): 18.00 18.00
Invert(ft): 12.500 11.500
Manning's N: 0.012000 0.012000
Top Clip(in): 0.000 0.000
Bot Clip(in): 0.000 0.000
                                                                 Friction Equation: Automatic
                                                              Solution Algorithm: Most Restrictive
                                                                               Flow: Both
                                                                Entrance Loss Coef: 0.000
                                                                    Exit Loss Coef: 1.000
                                                                  Outlet Ctrl Spec: Use dc or tw
                                                                   Inlet Ctrl Spec: Use dc
 Bot Clip(in): 0.000
                                 0.000
                                                                      Solution Incs: 10
Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall
Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall
*** Weir 1 of 2 for Drop Structure CS-400B ***
                                                                                            TABLE
                                                     Bottom Clip(in): 0.000
                    Count: 1
                     Type: Vertical: Mavis
                                                      Top Clip(in): 0.000
Weir Disc Coef: 3.200
                Geometry: Circular
                                                   Orifice Disc Coef: 0.600
                 Span(in): 3.00
                                                             Invert(ft): 13.000
                 Rise(in): 3.00
                                                    Control Elev(ft): 13.000
*** Weir 2 of 2 for Drop Structure CS-400B ***
                                                                                            TABLE
                                                     Bottom Clip(in): 0.000
                    Count: 1
                     Type: Horizontal
                                                     Top Clip(in): 0.000
                     Flow: Both
                 Geometry: Rectangular Orifice Disc Coef: 0.600
                 Span(in): 37.00
                                                            Invert(ft): 16.000
                 Rise(in): 49.00
                                                    Control Elev(ft): 16.000
         Name: CS-WET 1 From Node: WETLAND 1 Length(ft): 741.00
        Group: BASE
                                        To Node: STM-404
                                                                              Count: 1
     UPSTREAM DOWNSTREAM
Geometry: Circular Circular
Span(in): 18.00 18.00
Rise(in): 18.00 18.00
                                                                 Friction Equation: Automatic
                                                               Solution Algorithm: Most Restrictive
                                                                               Flow: Both
                                                                Entrance Loss Coef: 0.000
  Invert(ft): 12.000
Manning's N: 0.012000
Top Clip(in): 0.000
   Invert(ft): 12.000
                                  10.500
                                                                    Exit Loss Coef: 1.000
                                  0.012000
                                                                   Outlet Ctrl Spec: Use dc or tw
 Top Clip(in): 0.000
                                  0.000
                                                                   Inlet Ctrl Spec: Use dc
 Bot Clip(in): 0.000
                                 0.000
                                                                      Solution Incs: 10
Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall
Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall
*** Weir 1 of 2 for Drop Structure CS-WET 1 ***
                                                                                            TABLE
                Count: 1 Bottom Clip(in): 0.000
Type: Vertical: Mavis Top Clip(in): 0.000
Flow: Both Weir Disc Coef: 3.200
Geometry: Rectangular Orifice Disc Coef: 0.600
                 Span(in): 6.00
                                                            Invert(ft): 14.950
                 Rise(in): 4.00
                                                    Control Elev(ft): 14.950
*** Weir 2 of 2 for Drop Structure CS-WET 1 ***
                                                                                            TABLE
                                                 Bottom Clip(in): 0.000
Top Clip(in): 0.000
Weir Disc Coef: 3.200
Orifice Disc Coef: 0.600
                    Count: 1
                     Type: Horizontal
                     Flow: Both
                 Geometry: Rectangular
                 Span(in): 54.00
                                                            Invert(ft): 15.500
                 Rise(in): 36.00
                                                    Control Elev(ft): 15.500
```

```
Name: CS-WET 2 From Node: WETLAND 2 Length(ft): 249.00
                               To Node: STM-500
       Group: BASE
                                                              Count: 1
             UPSTREAM
                          DOWNSTREAM
                                                    Friction Equation: Automatic
    Geometry: Circular
                           Circular
                                                   Solution Algorithm: Most Restrictive
    Span(in): 18.00
                                                                Flow: Both
    Rise(in): 18.00
                           18.00
                                                   Entrance Loss Coef: 0.000
 Invert(ft): 12.000
Manning's N: 0.012000
                           11.500
                                                      Exit Loss Coef: 1.000
                           0.012000
                                                     Outlet Ctrl Spec: Use dc or tw
 Top Clip(in): 0.000
                                                     Inlet Ctrl Spec: Use dc
                           0.000
Bot Clip(in): 0.000
                                                        Solution Incs: 10
Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall
Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall
*** Weir 1 of 2 for Drop Structure CS-WET 2 ***
                                                                          TABLE
                Count: 1
                                           Bottom Clip(in): 0.000
                                             Top Clip(in): 0.000
Weir Disc Coef: 3.200
                 Type: Horizontal
                 Flow: Both
             Geometry: Rectangular
                                        Orifice Disc Coef: 0.600
             Span(in): 37.00
                                                 Invert(ft): 14.000
             Rise(in): 49.00
                                          Control Elev(ft): 14.000
*** Weir 2 of 2 for Drop Structure CS-WET 2 ***
                                                                          TABLE
                                          Bottom Clip(in): 0.000
                Count: 1
                 Type: Vertical: Mavis
                                              Top Clip(in): 0.000
                                           Weir Disc Coef: 3.200
                 Flow: Both
             Geometry: Rectangular
                                        Orifice Disc Coef: 0.600
             Span(in): 76.00
                                                Invert(ft): 13.000
             Rise(in): 12.00
                                         Control Elev(ft): 13.000
Name: 100Y3D
    Filename: K:\LAK_Civil\046403000 - Cove Rd Charter School\Design\ICPR\100Y3D.R32
     Override Defaults: Yes
   Storm Duration(hrs): 72.00
        Rainfall File: Sfwmd72
   Rainfall Amount(in): 15.00
Time(hrs)
             Print Inc(min)
       5.00
80.000
360.000
              5.00
    Filename: K:\LAK_Civil\046403000 - Cove Rd Charter School\Design\ICPR\10Y1D.R32
     Override Defaults: Yes
   Storm Duration(hrs): 24.00
        Rainfall File: Flmod
   Rainfall Amount(in): 7.00
Time(hrs)
             Print Inc(min)
         5.00
24.000
360.000
              5.00
______
       Name: 25Y3D
    Filename: K:\LAK_Civil\046403000 - Cove Rd Charter School\Design\ICPR\25Y3D.R32
     Override Defaults: Yes
   Storm Duration(hrs): 72.00
        Rainfall File: Sfwmd72
   Rainfall Amount(in): 12.00
Time(hrs)
             Print Inc(min)
80.000
              5.00
360.000
              5 00
```

```
Name: 3Y1D
    Filename: K:\LAK_Civil\046403000 - Cove Rd Charter School\Design\ICPR\3Y1D.R32
     Override Defaults: Yes
   Storm Duration(hrs): 24.00
        Rainfall File: Flmod
   Rainfall Amount(in): 5.25
            Print Inc(min)
      5.00
80.000
360.000
______
______
       Name: 100Y3D
                             Hydrology Sim: 100Y3D
    Filename: K:\LAK_Civil\046403000 - Cove Rd Charter School\Design\ICPR\100Y3D.I32
    Execute: Yes
                     Restart: No
                                         Patch: No
 Alternative: No
      Max Delta Z(ft): 1.00
                                        Delta Z Factor: 0.00500
   Time Step Optimizer: 10.000
      Start Time(hrs): 0.000
                                          End Time(hrs): 360.00
                                     Max Calc Time(sec): 60.0000
    Min Calc Time(sec): 0.5000
      Boundary Stages:
                                         Boundary Flows:
Time(hrs)
           Print Inc(min)
58.000 15.000
64.000
             5.000
100.000
            30.000
360.000
            60.000
Group
            Run
       Name: 10Y1D
                             Hydrology Sim: 10Y1D
    Filename: K:\LAK_Civil\046403000 - Cove Rd Charter School\Design\ICPR\10Y1D.I32
    Execute: Yes
                    Restart: No
                                         Patch: No
 Alternative: No
      Max Delta Z(ft): 1.00
                                        Delta Z Factor: 0.00500
   Time Step Optimizer: 10.000
      Start Time(hrs): 0.000
                                          End Time(hrs): 360.00
    Min Calc Time(sec): 0.5000
                                     Max Calc Time(sec): 60.0000
      Boundary Stages:
                                         Boundary Flows:
Time(hrs)
            Print Inc(min)
10.000 15.000
14.000
100.000
            30.000
360.000
            60.000
Group
            Run
BASE
       Name: 25Y3D
                             Hydrology Sim: 25Y3D
    Filename: K:\LAK_Civil\046403000 - Cove Rd Charter School\Design\ICPR\25Y3D.I32
    Execute: Yes
                      Restart: No
                                         Patch: No
 Alternative: No
      Max Delta Z(ft): 1.00
                                        Delta Z Factor: 0.00500
   Time Step Optimizer: 10.000
Start Time(hrs): 0.000
                                          End Time(hrs): 360.00
                                     Max Calc Time(sec): 60.0000
    Min Calc Time(sec): 0.5000
      Boundary Stages:
                                         Boundary Flows:
Time(hrs) Print Inc(min)
```

15.000

8.000

## INPUT REPORT

12.000 60.000 100.000 360.000	5.000 30.000 50.000 60.000
Group	Run
BASE	Yes

Name: 3Y1D Hydrology Sim: 3Y1D
Filename: K:\LAK\_Civil\046403000 - Cove Rd Charter School\Design\ICPR\3Y1D.I32

Execute: Yes Restart: No Patch: No Alternative: No

Max Delta Z(ft): 1.00
Time Step Optimizer: 10.000
Start Time(hrs): 0.000
Min Calc Time(sec): 0.5000 Delta Z Factor: 0.00500 End Time(hrs): 360.00
Max Calc Time(sec): 60.0000

Boundary Flows: Boundary Stages:

Time(	hrs)	Print Inc(min)	
			-
8.000		15.000	
12.00	0	5.000	
60.00	0	30.000	
360.0	00	60.000	
Group		Run	
BASE		Yes	

```
Basin Name: BASIN B1
            Group Name: BASE
            Simulation: 100Y3D
             Node Name: DRY RET 1A & 1B
            Basin Type: SCS Unit Hydrograph
      Unit Hydrograph: Uh256
 Peaking Fator: 256.0
Spec Time Inc (min): 1.33
 Comp Time Inc (min): 1.33
Rainfall File: Sfwmd72
Rainfall Amount (in): 15.000
Storm Duration (hrs): 72.00
                Status: Onsite
  Time of Conc (min): 10.00
Time Shift (hrs): 0.00
Area (ac): 1.000
Vol of Unit Hyd (in): 1.000
Curve Number: 95.000
              DCIA (%): 0.000
       Time Max (hrs): 60.02
 Flow Max (cfs): 6.64
Runoff Volume (in): 14.381
Runoff Volume (ft3): 52204
            Basin Name: BASIN B2
            Group Name: BASE
            Simulation: 100Y3D
             Node Name: WETLAND 1
            Basin Type: SCS Unit Hydrograph
      Unit Hydrograph: Uh256
         Peaking Fator: 256.0
 Spec Time Inc (min): 4.00
 Comp Time Inc (min): 4.00
Rainfall File: Sfwmd72
Rainfall Amount (in): 15.000
Storm Duration (hrs): 72.00
                Status: Onsite
  Time of Conc (min): 30.00
Time Shift (hrs): 0.00
Area (ac): 7.370
Vol of Unit Hyd (in): 1.000
         Curve Number: 89.000
              DCIA (%): 0.000
       Time Max (hrs): 60.20
       Flow Max (cfs): 30.09
  Runoff Volume (in): 13.608
 Runoff Volume (ft3): 364047
            Basin Name: BASIN B3-A
            Group Name: BASE
            Simulation: 100Y3D
             Node Name: DRY RET 2
            Basin Type: SCS Unit Hydrograph
      Unit Hydrograph: Uh256
 Peaking Fator: 256.0
Spec Time Inc (min): 1.33
 Comp Time Inc (min): 1.33
        Rainfall File: Sfwmd72
Rainfall Amount (in): 15.000
Storm Duration (hrs): 72.00
                Status: Onsite
  Time of Conc (min): 10.00
Time Shift (hrs): 0.00
             Area (ac): 2.950
Vol of Unit Hyd (in): 1.000
         Curve Number: 91.000
DCIA (%): 0.000
       Time Max (hrs): 60.02
       Flow Max (cfs): 19.47
 Runoff Volume (in): 13.870
Runoff Volume (ft3): 148530
            Basin Name: BASIN B3-B
            Group Name: BASE
```

```
Simulation: 100Y3D
              Node Name: DRY RET 3
             Basin Type: SCS Unit Hydrograph
       Unit Hydrograph: Uh256
 Peaking Fator: 256.0
Spec Time Inc (min): 1.33
Comp Time Inc (min): 1.33
         Rainfall File: Sfwmd72
Rainfall Amount (in): 15.000
Storm Duration (hrs): 72.00
Status: Onsite
Time of Conc (min): 10.00
Time Shift (hrs): 0.00
Area (ac): 1.160
Vol of Unit Hyd (in): 1.000
          Curve Number: 86.000 DCIA (%): 0.000
        Time Max (hrs): 60.02
        Flow Max (cfs): 7.56
  Runoff Volume (in): 13.204
 Runoff Volume (ft3): 55601
             Basin Name: BASIN B3-C
             Group Name: BASE
Simulation: 100Y3D
              Node Name: WET DET 4
             Basin Type: SCS Unit Hydrograph
      Unit Hydrograph: Uh256
 Peaking Fator: 256.0
Spec Time Inc (min): 1.33
Comp Time Inc (min): 1.33
        Rainfall File: Sfwmd72
Rainfall Amount (in): 15.000
Storm Duration (hrs): 72.00
                 Status: Onsite
   Time of Conc (min): 10.00
Time Shift (hrs): 0.00
Area (ac): 3.870
Vol of Unit Hyd (in): 1.000
          Curve Number: 89.000
               DCIA (%): 0.000
        Time Max (hrs): 60.02 Flow Max (cfs): 25.43
   Runoff Volume (in): 13.608
 Runoff Volume (ft3): 191162
             Basin Name: BASIN B4
             Group Name: BASE
             Simulation: 100Y3D
              Node Name: WETLAND 2
             Basin Type: SCS Unit Hydrograph
       Unit Hydrograph: Uh256
        Peaking Fator: 256.0
 Spec Time Inc (min): 3.33
 Comp Time Inc (min): 3.33
        Rainfall File: Sfwmd72
Rainfall Amount (in): 15.000
Storm Duration (hrs): 72.00
                 Status: Onsite
   Time of Conc (min): 25.00
Time Shift (hrs): 0.00
Area (ac): 4.980
Vol of Unit Hyd (in): 1.000
Curve Number: 85.000
               DCIA (%): 0.000
        Time Max (hrs): 60.11
        Flow Max (cfs): 22.17
   Runoff Volume (in): 13.068
 Runoff Volume (ft3): 236227
             Basin Name: BASIN B1
             Group Name: BASE
             Simulation: 10Y1D
              Node Name: DRY RET 1A & 1B
```

```
Basin Type: SCS Unit Hydrograph
      Unit Hydrograph: Uh256
        Peaking Fator: 256.0
 Spec Time Inc (min): 1.33
 Comp Time Inc (min): 1.33
        Rainfall File: Flmod
Rainfall Amount (in): 7.000
Storm Duration (hrs): 24.00
               Status: Onsite
  Time of Conc (min): 10.00
Time Shift (hrs): 0.00
           Area (ac): 1.000
Vol of Unit Hyd (in): 1.000
        Curve Number: 95.000
             DCIA (%): 0.000
      Time Max (hrs): 12.04
       Flow Max (cfs): 4.12
  Runoff Volume (in): 6.404
 Runoff Volume (ft3): 23245
           Basin Name: BASIN B2
           Group Name: BASE
           Simulation: 10Y1D
            Node Name: WETLAND 1
           Basin Type: SCS Unit Hydrograph
     Unit Hydrograph: Uh256
       Peaking Fator: 256.0
 Spec Time Inc (min): 4.00
Comp Time Inc (min): 4.00
        Rainfall File: Flmod
Rainfall Amount (in): 7.000
Storm Duration (hrs): 24.00
  Status: Onsite
Time of Conc (min): 30.00
Time Shift (hrs): 0.00
           Area (ac): 7.370
Vol of Unit Hyd (in): 1.000
         Curve Number: 89.000
DCIA (%): 0.000
       Time Max (hrs): 12.27
       Flow Max (cfs): 17.16
  Runoff Volume (in): 5.706
 Runoff Volume (ft3): 152657
           Basin Name: BASIN B3-A
           Group Name: BASE
           Simulation: 10Y1D
            Node Name: DRY RET 2
           Basin Type: SCS Unit Hydrograph
     Unit Hydrograph: Uh256
Peaking Fator: 256.0
 Spec Time Inc (min): 1.33
 Comp Time Inc (min): 1.33
       Rainfall File: Flmod
Rainfall Amount (in): 7.000
Storm Duration (hrs): 24.00
               Status: Onsite
  Time of Conc (min): 10.00
Time Shift (hrs): 0.00
Area (ac): 2.950
Vol of Unit Hyd (in): 1.000
         Curve Number: 91.000
             DCIA (%): 0.000
      Time Max (hrs): 12.04
       Flow Max (cfs): 11.70
  Runoff Volume (in): 5.937
 Runoff Volume (ft3): 63573
           Basin Name: BASIN B3-B
           Group Name: BASE
           Simulation: 10Y1D
            Node Name: DRY RET 3
           Basin Type: SCS Unit Hydrograph
```

```
Unit Hydrograph: Uh256
   Peaking Fator: 256.0
Spec Time Inc (min): 1.33
   Comp Time Inc (min): 1.33
  Rainfall File: Flmod Rainfall Amount (in): 7.000
  Storm Duration (hrs): 24.00
                 Status: Onsite
    Time of Conc (min): 10.00
Time Shift (hrs): 0.00
 Area (ac): 1.160
Vol of Unit Hyd (in): 1.000
Curve Number: 86.000
                DCIA (%): 0.000
         Time Max (hrs): 12.04
    Flow Max (cfs): 4.28
Runoff Volume (in): 5.364
   Runoff Volume (ft3): 22586
______
              Basin Name: BASIN B3-C
              Group Name: BASE
             Simulation: 10Y1D
               Node Name: WET DET 4
             Basin Type: SCS Unit Hydrograph
        Unit Hydrograph: Uh256
          Peaking Fator: 256.0
   Spec Time Inc (min): 1.33
  Comp Time Inc (min): 1.33
Rainfall File: Flmod
Rainfall Amount (in): 7.000
  Storm Duration (hrs): 24.00
                 Status: Onsite
    Time of Conc (min): 10.00
      Time Shift (hrs): 0.00
             Area (ac): 3.870
  Vol of Unit Hyd (in): 1.000
          Curve Number: 89.000
               DCIA (%): 0.000
         Time Max (hrs): 12.04
    Flow Max (cfs): 14.95
Runoff Volume (in): 5.706
   Runoff Volume (ft3): 80160
              Basin Name: BASIN B4
             Group Name: BASE
              Simulation: 10Y1D
               Node Name: WETLAND 2
             Basin Type: SCS Unit Hydrograph
        Unit Hydrograph: Uh256
          Peaking Fator: 256.0
   Spec Time Inc (min): 3.33
Comp Time Inc (min): 3.33
          Rainfall File: Flmod
  Rainfall Amount (in): 7.000
  Storm Duration (hrs): 24.00
    Status: Onsite
Time of Conc (min): 25.00
Time Shift (hrs): 0.00
 Area (ac): 4.980
Vol of Unit Hyd (in): 1.000
           Curve Number: 85.000
               DCIA (%): 0.000
         Time Max (hrs): 12.22
Flow Max (cfs): 11.91
    Runoff Volume (in): 5.251
   Runoff Volume (ft3): 94921
              Basin Name: BASIN B1
             Group Name: BASE
Simulation: 25Y3D
               Node Name: DRY RET 1A & 1B
              Basin Type: SCS Unit Hydrograph
       Unit Hydrograph: Uh256
Peaking Fator: 256.0
```

```
Spec Time Inc (min): 1.33
 Comp Time Inc (min): 1.33
        Rainfall File: Sfwmd72
Rainfall Amount (in): 12.000
Storm Duration (hrs): 72.00
                 Status: Onsite
  Time of Conc (min): 10.00
Time Shift (hrs): 0.00
Area (ac): 1.000
Vol of Unit Hyd (in): 1.000
          Curve Number: 95.000
DCIA (%): 0.000
       Time Max (hrs): 60.02
       Flow Max (cfs): 5.31
  Runoff Volume (in): 11.387
 Runoff Volume (ft3): 41334
            Basin Name: BASIN B2
            Group Name: BASE
            Simulation: 25Y3D
             Node Name: WETLAND 1
            Basin Type: SCS Unit Hydrograph
      Unit Hydrograph: Uh256
 Peaking Fator: 256.0
Spec Time Inc (min): 4.00
 Comp Time Inc (min): 4.00
Rainfall File: Sfwmd72
Rainfall Amount (in): 12.000
Storm Duration (hrs): 72.00
                Status: Onsite
  Time of Conc (min): 30.00
Time Shift (hrs): 0.00
Area (ac): 7.370
Vol of Unit Hyd (in): 1.000
Curve Number: 89.000
              DCIA (%): 0.000
       Time Max (hrs): 60.20
  Flow Max (cfs): 23.90
Runoff Volume (in): 10.631
 Runoff Volume (ft3): 284406
            Basin Name: BASIN B3-A
            Group Name: BASE
            Simulation: 25Y3D
             Node Name: DRY RET 2
            Basin Type: SCS Unit Hydrograph
      Unit Hydrograph: Uh256
        Peaking Fator: 256.0
 Spec Time Inc (min): 1.33
 Comp Time Inc (min): 1.33
Rainfall File: Sfwmd72
Rainfall Amount (in): 12.000
Storm Duration (hrs): 72.00
                Status: Onsite
  Time of Conc (min): 10.00
     Time Shift (hrs): 0.00
Area (ac): 2.950
Vol of Unit Hyd (in): 1.000
          Curve Number: 91.000
              DCIA (%): 0.000
       Time Max (hrs): 60.02
  Flow Max (cfs): 15.51
Runoff Volume (in): 10.886
 Runoff Volume (ft3): 116571
            Basin Name: BASIN B3-B
            Group Name: BASE
            Simulation: 25Y3D
            Node Name: DRY RET 3
Basin Type: SCS Unit Hydrograph
      Unit Hydrograph: Uh256
        Peaking Fator: 256.0
 Spec Time Inc (min): 1.33
Comp Time Inc (min): 1.33
```

```
Rainfall File: Sfwmd72
  Rainfall Amount (in): 12.000
  Storm Duration (hrs): 72.00
                Status: Onsite
    Time of Conc (min): 10.00
Time Shift (hrs): 0.00
  Area (ac): 1.160
Vol of Unit Hyd (in): 1.000
           Curve Number: 86.000
               DCIA (%): 0.000
         Time Max (hrs): 60.02
         Flow Max (cfs): 5.98
    Runoff Volume (in): 10.242
    Runoff Volume (ft3): 43128
             Basin Name: BASIN B3-C
             Group Name: BASE
             Simulation: 25Y3D
              Node Name: WET DET 4
             Basin Type: SCS Unit Hydrograph
        Unit Hydrograph: Uh256
         Peaking Fator: 256.0
    Spec Time Inc (min): 1.33
   Comp Time Inc (min): 1.33
Rainfall File: Sfwmd72
   Rainfall Amount (in): 12.000
  Storm Duration (hrs): 72.00
                Status: Onsite
    Time of Conc (min): 10.00
Time Shift (hrs): 0.00
  Area (ac): 3.870
Vol of Unit Hyd (in): 1.000
           Curve Number: 89.000
               DCIA (%): 0.000
         Time Max (hrs): 60.02
         Flow Max (cfs): 20.21
    Runoff Volume (in): 10.631
   Runoff Volume (ft3): 149342
             Basin Name: BASIN B4
             Group Name: BASE
             Simulation: 25Y3D
              Node Name: WETLAND 2
             Basin Type: SCS Unit Hydrograph
        Unit Hydrograph: Uh256
   Peaking Fator: 256.0
Spec Time Inc (min): 3.33
   Comp Time Inc (min): 3.33
         Rainfall File: Sfwmd72
  Rainfall Amount (in): 12.000
  Storm Duration (hrs): 72.00
Status: Onsite
     Time of Conc (min): 25.00
       Time Shift (hrs): 0.00
             Area (ac): 4.980
  Vol of Unit Hyd (in): 1.000
           Curve Number: 85.000
               DCIA (%): 0.000
         Time Max (hrs): 60.11
         Flow Max (cfs): 17.50
    Runoff Volume (in): 10.111
   Runoff Volume (ft3): 182781
______
             Basin Name: BASIN B1
             Group Name: BASE
             Simulation: 3Y1D
              Node Name: DRY RET 1A & 1B
             Basin Type: SCS Unit Hydrograph
        Unit Hydrograph: Uh256
    Peaking Fator: 256.0
Spec Time Inc (min): 1.33
    Comp Time Inc (min): 1.33
          Rainfall File: Flmod
```

Rainfall Amount (in): 5.250

```
Storm Duration (hrs): 24.00
               Status: Onsite
  Time of Conc (min): 10.00
    Time Shift (hrs): 0.00
Area (ac): 1.000
Vol of Unit Hyd (in): 1.000
         Curve Number: 95.000
             DCIA (%): 0.000
       Time Max (hrs): 12.04
  Flow Max (cfs): 3.05
Runoff Volume (in): 4.666
 Runoff Volume (ft3): 16936
           Basin Name: BASIN B2
           Group Name: BASE
           Simulation: 3Y1D
            Node Name: WETLAND 1
           Basin Type: SCS Unit Hydrograph
     Unit Hydrograph: Uh256
       Peaking Fator: 256.0
 Spec Time Inc (min): 4.00
 Comp Time Inc (min): 4.00
       Rainfall File: Flmod
Rainfall Amount (in): 5.250
Storm Duration (hrs): 24.00
               Status: Onsite
  Time of Conc (min): 30.00
Time Shift (hrs): 0.00
Area (ac): 7.370
Vol of Unit Hyd (in): 1.000
Curve Number: 89.000
             DCIA (%): 0.000
      Time Max (hrs): 12.27
       Flow Max (cfs): 12.21
  Runoff Volume (in): 4.010
 Runoff Volume (ft3): 107289
           Basin Name: BASIN B3-A
           Group Name: BASE
           Simulation: 3Y1D
            Node Name: DRY RET 2
           Basin Type: SCS Unit Hydrograph
      Unit Hydrograph: Uh256
        Peaking Fator: 256.0
 Spec Time Inc (min): 1.33
 Comp Time Inc (min): 1.33
Rainfall File: Flmod
Rainfall Amount (in): 5.250
Storm Duration (hrs): 24.00
               Status: Onsite
  Time of Conc (min): 10.00
Time Shift (hrs): 0.00
           Area (ac): 2.950
Vol of Unit Hyd (in): 1.000
         Curve Number: 91.000
             DCIA (%): 0.000
       Time Max (hrs): 12.04
       Flow Max (cfs): 8.47
  Runoff Volume (in): 4.224
 Runoff Volume (ft3): 45229
           Basin Name: BASIN B3-B
           Group Name: BASE
           Simulation: 3Y1D
            Node Name: DRY RET 3
           Basin Type: SCS Unit Hydrograph
      Unit Hydrograph: Uh256
 Peaking Fator: 256.0 Spec Time Inc (min): 1.33
 Comp Time Inc (min): 1.33
        Rainfall File: Flmod
Rainfall Amount (in): 5.250
Storm Duration (hrs): 24.00
               Status: Onsite
```

```
Time of Conc (min): 10.00
    Time Shift (hrs): 0.00
            Area (ac): 1.160
Vol of Unit Hyd (in): 1.000
         Curve Number: 86.000
              DCIA (%): 0.000
       Time Max (hrs): 12.04
       Flow Max (cfs): 3.00
  Runoff Volume (in): 3.700
 Runoff Volume (ft3): 15579
            Basin Name: BASIN B3-C
            Group Name: BASE
            Simulation: 3Y1D
             Node Name: WET DET 4
            Basin Type: SCS Unit Hydrograph
      Unit Hydrograph: Uh256
 Peaking Fator: 256.0
Spec Time Inc (min): 1.33
Comp Time Inc (min): 1.33
        Rainfall File: Flmod
Rainfall Amount (in): 5.250
Storm Duration (hrs): 24.00
                Status: Onsite
  Time of Conc (min): 10.00
Time Shift (hrs): 0.00
Area (ac): 3.870
Vol of Unit Hyd (in): 1.000
          Curve Number: 89.000
DCIA (%): 0.000
       Time Max (hrs): 12.04
       Flow Max (cfs): 10.69
  Runoff Volume (in): 4.010
 Runoff Volume (ft3): 56338
            Basin Name: BASIN B4
            Group Name: BASE
            Simulation: 3Y1D
             Node Name: WETLAND 2
            Basin Type: SCS Unit Hydrograph
      Unit Hydrograph: Uh256
        Peaking Fator: 256.0
 Spec Time Inc (min): 3.33
 Comp Time Inc (min): 3.33
Rainfall File: Flmod
Rainfall Amount (in): 5.250
Storm Duration (hrs): 24.00
                Status: Onsite
  Time of Conc (min): 25.00
Time Shift (hrs): 0.00
Area (ac): 4.980
Vol of Unit Hyd (in): 1.000
          Curve Number: 85.000
              DCIA (%): 0.000
       Time Max (hrs): 12.22
       Flow Max (cfs): 8.24
 Runoff Volume (in): 3.599
Runoff Volume (ft3): 65053
```

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning N Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
DRY RET 1A & 1B	BASE	100Y3D	60.06	17.06	17.25	0.0009	11113	60.00	6.63	60.06	6.22
DRY RET 1A & 1B	BASE	10Y1D	12.14	16.98	17.25	-0.0005	10829	12.00	4.02	12.14	3.58
DRY RET 1A & 1B	BASE	25Y3D	60.07	17.03	17.25	0.0008	10982	60.00	5.29	60.07	4.94
DRY RET 1A & 1B	BASE	3Y1D	12.29	16.93	17.25	0.0003	10636	12.00	2.97	12.29	2.08
DRY RET 2	BASE	100Y3D	60.19	16.94	17.00	-0.0046	11661	60.00	19.42	60.07	13.18
DRY RET 2	BASE	10Y1D	12.16	16.32	17.00	-0.0020	10585	12.00	11.38	12.16	9.88
DRY RET 2	BASE	25Y3D	60.14	16.58	17.00	-0.0031	11022	60.00	15.47	60.09	12.15
DRY RET 2	BASE	3Y1D	12.17	16.18	17.00	-0.0010	10325	12.00	8.22	12.17	6.99
DRY RET 3	BASE	100Y3D	60.24	16.20	16.25	0.0028	9053	60.00	7.53	60.16	4.56
DRY RET 3	BASE	10Y1D	12.44	15.70	16.25	0.0021	8089	12.00	4.15	12.44	2.20
DRY RET 3	BASE	25Y3D	60.22	16.00	16.25	-0.0026	8663	60.00	5.96	60.20	3.73
DRY RET 3	BASE	3Y1D	12.59	15.45	16.25	0.0009	7600	12.08	2.90	12.59	1.13
OUTFALL	BASE	100Y3D	0.00	12.00	12.00	0.0000	130	64.37	8.41	0.00	0.00
OUTFALL	BASE	10Y1D	0.00	12.00	12.00	0.0000	130	14.67	6.60	0.00	0.00
OUTFALL	BASE	25Y3D	0.00	12.00	12.00	0.0000	130	64.20	7.86	0.00	0.00
OUTFALL	BASE	3Y1D	0.00	12.00	12.00	0.0000	130	14.10	5.56	0.00	0.00
STM-404	BASE	100Y3D	62.12	14.87	15.53	0.0375	118	60.46	20.22	60.47	20.20
STM-404	BASE	10Y1D	14.32	13.97	15.53	0.0375	118	12.97	9.27	12.97	9.22
STM-404	BASE	25Y3D	62.38	14.58	15.53	0.0375	118	60.63	18.34	60.64	18.32
STM-404	BASE	3Y1D	14.27	13.61	15.53	0.0375	118	12.93	5.11	12.92	5.10
STM-500	BASE	100Y3D	64.37	13.17	15.58	0.0032	228	64.36	8.41	64.37	8.41
STM-500	BASE	10Y1D	14.67	12.92	15.58	0.0032	246	14.66	6.60	14.67	6.60
STM-500	BASE	25Y3D	64.20	13.09	15.58	0.0032	235	64.18	7.86	64.20	7.86
STM-500	BASE	3Y1D	14.10	12.77	15.58	0.0032	251	14.09	5.56	14.10	5.56
WET DET 4	BASE	100Y3D	60.77	15.47	16.25	0.0034	55835	60.00	42.27	60.49	16.08
WET DET 4	BASE	10Y1D	12.83	14.58	16.25	0.0026	50465	12.08	25.24	12.97	9.11
WET DET 4	BASE	25Y3D	60.66	15.10	16.25	0.0031	53638	60.00	35.07	60.66	14.10
WET DET 4	BASE	3Y1D	12.95	14.16	16.25	0.0012	47955	12.08	17.21	12.88	5.08
WETLAND 1	BASE	100Y3D	62.63	16.15	16.00	0.0012	259929	60.17	35.68	60.02	4.88
WETLAND 1	BASE	10Y1D	16.32	15.58	16.00	0.0010	220067	12.25	20.48	16.32	1.59
WETLAND 1	BASE	25Y3D	62.36	15.92	16.00	0.0008	243721	60.17	28.37	60.34	4.67
WETLAND 1	BASE	3Y1D	24.10	15.46	16.00	0.0004	211529	12.25	14.23	24.10	0.47
WETLAND 2	BASE	100Y3D	64.41	14.80	14.00	0.0023	236617	60.17	40.55	64.42	8.10
WETLAND 2	BASE	10Y1D	14.78	13.93	14.00	0.0015	134270	12.37	18.39	14.80	6.35
WETLAND 2	BASE	25Y3D	64.22	14.53	14.00	0.0019	204551	60.25	32.43	64.22	7.58
WETLAND 2	BASE	3Y1D	14.16	13.60	14.00	0.0007	94230	12.48	11.68	14.17	5.33

NODE TIME SERIES REPOR	ľ									
Simulation	Node	Group	Time	Stage	Warning	Surface	Total	Total	Total	Total
		-		_	Stage	Area	Inflow	Outflow	Vol In	Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
25Y3DDRY RET	1A & 1B	BASE	0.00	16.07	17.25	7649	0.00	0.00	0.0	0.0
25Y3DDRY RET		BASE	0.25	16.07	17.25	7649	0.00	0.00	0.0	0.0
25Y3DDRY RET		BASE	0.50	16.07	17.25	7649	0.00	0.00	0.0	0.0
25Y3DDRY RET		BASE	0.75	16.07	17.25	7649	0.00	0.00	0.0	0.0
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	1.00 1.25	16.07 16.07	17.25 17.25	7649 7649	0.00	0.00	0.0	0.0
25Y3DDRY RET		BASE	1.50	16.07	17.25	7649	0.00	0.00	0.0	0.0
25Y3DDRY RET		BASE	1.75	16.07	17.25	7649	0.00	0.00	0.0	0.0
25Y3DDRY RET		BASE	2.00	16.07	17.25	7649	0.00	0.00	0.0	0.0
25Y3DDRY RET		BASE	2.25	16.07 16.07	17.25	7649	0.00	0.00	0.0	0.0
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	2.50 2.75	16.07	17.25 17.25	7650 7652	0.00 0.01	0.00	0.0	0.0
25Y3DDRY RET		BASE	3.00	16.07	17.25	7655	0.01	0.00	0.0	0.0
25Y3DDRY RET	1A & 1B	BASE	3.25	16.07	17.25	7658	0.01	0.00	0.0	0.0
25Y3DDRY RET		BASE	3.50	16.07	17.25	7662	0.01	0.00	0.0	0.0
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	3.75 4.00	16.08 16.08	17.25 17.25	7668 7674	0.01 0.02	0.00	0.0	0.0
25Y3DDRY RET		BASE	4.25	16.08	17.25	7680	0.02	0.00	0.0	0.0
25Y3DDRY RET		BASE	4.50	16.08	17.25	7687	0.02	0.00	0.0	0.0
25Y3DDRY RET		BASE	4.75	16.08	17.25	7695	0.02	0.00	0.0	0.0
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	5.00 5.25	16.09 16.09	17.25 17.25	7704 7713	0.02 0.02	0.00	0.0	0.0
25Y3DDR1 RE1		BASE	5.50	16.09	17.25	7722	0.02	0.00	0.0	0.0
25Y3DDRY RET		BASE	5.75	16.09	17.25	7732	0.02	0.00	0.0	0.0
25Y3DDRY RET		BASE	6.00	16.10	17.25	7742	0.03	0.00	0.0	0.0
25Y3DDRY RET		BASE	6.25	16.10	17.25	7753	0.03	0.00	0.0	0.0
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	6.50 6.75	16.10 16.11	17.25 17.25	7764 7775	0.03	0.00	0.0	0.0
25Y3DDRY RET		BASE	7.00	16.11	17.25	7787	0.03	0.00	0.0	0.0
25Y3DDRY RET	1A & 1B	BASE	7.25	16.11	17.25	7799	0.03	0.00	0.0	0.0
25Y3DDRY RET		BASE	7.50	16.12	17.25	7812	0.03	0.00	0.0	0.0
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	7.75 8.00	16.12 16.12	17.25 17.25	7824 7837	0.03	0.00	0.0	0.0
25Y3DDRY RET		BASE	8.25	16.13	17.25	7850	0.03	0.00	0.0	0.0
25Y3DDRY RET		BASE	8.33	16.13	17.25	7855	0.03	0.00	0.0	0.0
25Y3DDRY RET		BASE	8.42	16.13	17.25	7859	0.03	0.00	0.0	0.0
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	8.50 8.58	16.13 16.13	17.25 17.25	7864 7868	0.03	0.00	0.0	0.0
2513DDR1 RE1 25Y3DDRY RET		BASE	8.67	16.13	17.25	7873	0.03	0.00	0.0	0.0
25Y3DDRY RET		BASE	8.75	16.14	17.25	7878	0.03	0.00	0.0	0.0
25Y3DDRY RET		BASE	8.83	16.14	17.25	7882	0.03	0.00	0.0	0.0
25Y3DDRY RET		BASE	8.92	16.14	17.25	7887	0.04	0.00	0.0	0.0
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	9.00 9.08	16.14 16.14	17.25 17.25	7891 7896	0.04	0.00	0.0	0.0
25Y3DDRY RET		BASE	9.17	16.14	17.25	7901	0.04	0.00	0.0	0.0
25Y3DDRY RET	1A & 1B	BASE	9.25	16.14	17.25	7906	0.04	0.00	0.0	0.0
25Y3DDRY RET		BASE	9.33	16.14	17.25	7910	0.04	0.00	0.0	0.0
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	9.42 9.50	16.15 16.15	17.25 17.25	7915 7920	0.04	0.00	0.0	0.0
25Y3DDRY RET		BASE	9.58	16.15	17.25	7925	0.04	0.00	0.0	0.0
25Y3DDRY RET		BASE	9.67	16.15	17.25	7929	0.04	0.00	0.0	0.0
25Y3DDRY RET		BASE	9.75	16.15	17.25	7934	0.04	0.00	0.0	0.0
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	9.83 9.92	16.15 16.15	17.25 17.25	7939 7944	0.04	0.00	0.0	0.0
25Y3DDRY RET		BASE	10.00	16.16	17.25	7949	0.04	0.00	0.0	0.0
25Y3DDRY RET		BASE	10.08	16.16	17.25	7954	0.04	0.00	0.0	0.0
25Y3DDRY RET		BASE	10.17	16.16	17.25	7959	0.04	0.00	0.0	0.0
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	10.25 10.33	16.16 16.16	17.25 17.25	7964 7969	0.04	0.00	0.0	0.0
25Y3DDRY RET		BASE	10.42	16.16	17.25	7974	0.04	0.00	0.0	0.0
25Y3DDRY RET		BASE	10.50	16.16	17.25	7979	0.04	0.00	0.0	0.0
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	10.58 10.67	16.17 16.17	17.25 17.25	7984 7989	0.04	0.00	0.0	0.0
2513DDR1 REI 25Y3DDRY RET		BASE	10.07	16.17	17.25	7994	0.04	0.00	0.0	0.0
25Y3DDRY RET		BASE	10.83	16.17	17.25	7999	0.04	0.00	0.0	0.0
25Y3DDRY RET		BASE	10.92	16.17	17.25	8004	0.04	0.00	0.0	0.0
25Y3DDRY RET		BASE	11.00	16.17	17.25	8009	0.04	0.00	0.0	0.0
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	11.08 11.17	16.17 16.18	17.25 17.25	8014 8019	0.04	0.00	0.0	0.0
25Y3DDRY RET		BASE	11.25	16.18	17.25	8024	0.04	0.00	0.0	0.0
25Y3DDRY RET		BASE	11.33	16.18	17.25	8029	0.04	0.00	0.0	0.0
25Y3DDRY RET		BASE	11.42	16.18	17.25	8035	0.04	0.00	0.0	0.0
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	11.50 11.58	16.18 16.18	17.25 17.25	8040 8045	0.04	0.00	0.0	0.0
2513DDR1 REI 25Y3DDRY RET		BASE	11.50	16.19	17.25	8050	0.04	0.00	0.0	0.0
25Y3DDRY RET	1A & 1B	BASE	11.75	16.19	17.25	8055	0.04	0.00	0.0	0.0
25Y3DDRY RET		BASE	11.83	16.19	17.25	8061	0.04	0.00	0.0	0.0
25Y3DDRY RET		BASE	11.92	16.19	17.25	8066 9071	0.04	0.00	0.0	0.0
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	12.00 12.50	16.19 16.20	17.25 17.25	8071 8103	0.04	0.00	0.0	0.0
25Y3DDRY RET		BASE	13.00	16.21	17.25	8135	0.04	0.00	0.0	0.0
25Y3DDRY RET	1A & 1B	BASE	13.50	16.22	17.25	8167	0.04	0.00	0.0	0.0
25Y3DDRY RET		BASE	14.00	16.23	17.25	8200	0.04	0.00	0.0	0.0
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	14.50 15.00	16.24 16.25	17.25 17.25	8233 8266	0.04	0.00	0.0	0.0
2513DDR1 REI 25Y3DDRY RET		BASE	15.50	16.25	17.25	8300	0.04	0.00	0.0	0.0
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NODE TIME SERIES REPOR	Node	Group	Time	_	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	16.00 16.50	16.27 16.28	17.25 17.25	8333 8367	0.04 0.05	0.00	0.0	0.0
25Y3DDRY RET		BASE	17.00	16.29	17.25	8401	0.05	0.00	0.0	0.0
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	17.50 18.00	16.30 16.31	17.25 17.25	8435 8469	0.05 0.05	0.00	0.0	0.0
25Y3DDRY RET	1A & 1B	BASE	18.50	16.32	17.25	8504	0.05	0.00	0.0	0.0
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	19.00 19.50	16.33 16.33	17.25 17.25	8538 8572	0.05 0.05	0.00	0.0	0.0
25Y3DDRY RET		BASE	20.00	16.34	17.25	8607	0.05	0.00	0.1	0.0
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	20.50 21.00	16.35	17.25	8641 8676	0.05 0.05	0.00	0.1 0.1	0.0
25Y3DDRY RET		BASE	21.50	16.36 16.37	17.25 17.25	8710	0.05	0.00	0.1	0.0
25Y3DDRY RET		BASE	22.00	16.38	17.25	8745	0.05	0.00	0.1	0.0
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	22.50 23.00	16.39 16.40	17.25 17.25	8779 8814	0.05 0.05	0.00	0.1 0.1	0.0
25Y3DDRY RET	1A & 1B	BASE	23.50	16.41	17.25	8849	0.05	0.00	0.1	0.0
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	24.00 24.50	16.42 16.44	17.25 17.25	8883 8926	0.05 0.07	0.00	0.1 0.1	0.0
25Y3DDRY RET		BASE	25.00	16.45	17.25	8975	0.07	0.00	0.1	0.0
25Y3DDRY RET		BASE	25.50	16.46	17.25	9025 9075	0.07	0.00	0.1	0.0
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	26.00 26.50	16.48 16.49	17.25 17.25	9125	0.07 0.07	0.00	0.1 0.1	0.0
25Y3DDRY RET	1A & 1B	BASE	27.00	16.51	17.25	9175	0.07	0.00	0.1	0.0
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	27.50 28.00	16.52 16.54	17.25 17.25	9225 9274	0.07 0.07	0.00	0.1 0.1	0.0
25Y3DDRY RET	1A & 1B	BASE	28.50	16.55	17.25	9324	0.07	0.00	0.1	0.0
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	29.00 29.50	16.56 16.58	17.25 17.25	9373 9422	0.07 0.07	0.00	0.1 0.1	0.0
25Y3DDRY RET	1A & 1B	BASE	30.00	16.59	17.25	9471	0.07	0.00	0.1	0.0
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	30.50 31.00	16.61 16.62	17.25 17.25	9520 9569	0.07 0.07	0.00	0.1 0.1	0.0
25Y3DDRY RET		BASE	31.50	16.63	17.25	9617	0.07	0.00	0.1	0.0
25Y3DDRY RET		BASE	32.00	16.65	17.25	9666	0.07	0.00	0.1	0.0
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	32.50 33.00	16.66 16.68	17.25 17.25	9714 9762	0.07 0.07	0.00	0.1 0.1	0.0
25Y3DDRY RET	1A & 1B	BASE	33.50	16.69	17.25	9810	0.07	0.00	0.1	0.0
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	34.00 34.50	16.70 16.72	17.25 17.25	9858 9906	0.08	0.00	0.1 0.1	0.0
25Y3DDRY RET	1A & 1B	BASE	35.00	16.73	17.25	9953	0.08	0.00	0.1	0.0
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	35.50 36.00	16.74 16.76	17.25 17.25	10000 10048	0.08	0.00	0.1 0.1	0.0
25Y3DDRY RET	1A & 1B	BASE	36.50	16.77	17.25	10095	0.08	0.00	0.1	0.0
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	37.00 37.50	16.79 16.80	17.25 17.25	10142 10189	0.08	0.00	0.1 0.1	0.0
25Y3DDRY RET		BASE	38.00	16.81	17.25	10225	0.08	0.04	0.2	0.0
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	38.50 39.00	16.81 16.81	17.25 17.25	10238 10241	0.08	0.07 0.07	0.2 0.2	0.0
25Y3DDRY RET		BASE	39.50	16.81	17.25	10241	0.08	0.08	0.2	0.0
25Y3DDRY RET		BASE	40.00	16.81	17.25	10242	0.08	0.08	0.2	0.0
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	40.50 41.00	16.81 16.81	17.25 17.25	10242 10242	0.08	0.08	0.2 0.2	0.0
25Y3DDRY RET	1A & 1B	BASE	41.50	16.81	17.25	10242	0.08	0.08	0.2	0.0
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	42.00 42.50	16.81 16.81	17.25 17.25	10242 10242	0.08	0.08	0.2 0.2	0.0
25Y3DDRY RET	1A & 1B	BASE	43.00	16.81	17.25	10242	0.08	0.08	0.2	0.0
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	43.50 44.00	16.81 16.81	17.25 17.25	10242 10242	0.08	0.08	0.2 0.2	0.0
25Y3DDRY RET	1A & 1B	BASE	44.50	16.81	17.25	10242	0.08	0.08	0.2	0.0
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	45.00 45.50	16.81 16.81	17.25 17.25	10242 10242	0.08	0.08	0.2 0.2	0.0
25Y3DDRY RET	1A & 1B	BASE	46.00	16.81	17.25	10242	0.08	0.08	0.2	0.1
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	46.50 47.00	16.81 16.81	17.25 17.25	10242 10243	0.08	0.08	0.2 0.2	0.1
25Y3DDRY RET		BASE	47.50	16.81	17.25	10243	0.08	0.08	0.2	0.1
25Y3DDRY RET 25Y3DDRY RET		BASE	48.00	16.81	17.25	10243	0.08	0.08	0.2	0.1
25Y3DDRY RET		BASE BASE	48.50 49.00	16.81 16.82	17.25 17.25	10244 10246	0.09	0.08 0.09	0.2	0.1
25Y3DDRY RET		BASE	49.50	16.82	17.25	10246	0.09	0.09	0.2	0.1
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	50.00 50.50	16.82 16.82	17.25 17.25	10247 10250	0.09 0.10	0.09 0.10	0.2	0.1
25Y3DDRY RET	1A & 1B	BASE	51.00	16.82	17.25	10253	0.10	0.10	0.2	0.1
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	51.50 52.00	16.82 16.82	17.25 17.25	10255 10257	0.11 0.11	0.11 0.11	0.2	0.1
25Y3DDRY RET	1A & 1B	BASE	52.50	16.82	17.25	10263	0.14	0.13	0.3	0.1
25Y3DDRY RET		BASE BASE	53.00	16.82	17.25 17.25	10268 10275	0.15 0.18	0.14	0.3	0.1
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	53.50 54.00	16.82 16.82	17.25	10275	0.18	0.17 0.18	0.3	0.1
25Y3DDRY RET	1A & 1B	BASE	54.50	16.83	17.25	10287	0.21	0.20	0.3	0.1
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	55.00 55.50	16.83 16.83	17.25 17.25	10291 10298	0.22 0.25	0.22 0.24	0.3	0.1
25Y3DDRY RET	1A & 1B	BASE	56.00	16.83	17.25	10302	0.26	0.25	0.3	0.2
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	56.50 57.00	16.83 16.83	17.25 17.25	10310 10314	0.29	0.28	0.3	0.2
25Y3DDRY RET	1A & 1B	BASE	57.50	16.84	17.25	10323	0.35	0.33	0.3	0.2
25Y3DDRY RET		BASE	58.00	16.84	17.25	10333	0.38	0.37	0.4	0.2
25Y3DDRY RET	TH & TR	BASE	58.50	16.84	17.25	10343	0.42	0.41	0.4	0.2

NODE TIME SERIES REPORT									
Simulation Node	e Group	Time	Stage	Warning	Surface	Total	Total	Total	Total
				Stage	Area	Inflow	Outflow	Vol In	Vol Out
		hrs	ft	ft	ft2	cfs	cfs	af	af 
25Y3DDRY RET 1A & 1E	BASE	59.00	16.85	17.25	10368	0.55	0.51	0.4	0.2
25Y3DDRY RET 1A & 1E		59.50	16.87	17.25	10422	0.86	0.77	0.4	0.3
25Y3DDRY RET 1A & 1E 25Y3DDRY RET 1A & 1E		60.00 60.84	17.02 16.89	17.25 17.25	10965 10507	5.29 0.91	4.79 1.24	0.6 0.8	0.4 0.6
25Y3DDRY RET 1A & 1E		61.67	16.85	17.25	10371	0.47	0.53	0.8	0.7
25Y3DDRY RET 1A & 1E	BASE	62.50	16.84	17.25	10327	0.31	0.35	0.8	0.7
25Y3DDRY RET 1A & 1E		63.33 64.17	16.83 16.83	17.25	10307 10303	0.27	0.27	0.9	0.7 0.7
25Y3DDRY RET 1A & 1E 25Y3DDRY RET 1A & 1E		65.00	16.82	17.25 17.25	10276	0.22 0.16	0.26 0.17	0.9 0.9	0.7
25Y3DDRY RET 1A & 1E	BASE	65.83	16.82	17.25	10273	0.16	0.16	0.9	0.7
25Y3DDRY RET 1A & 1E		66.67	16.82	17.25	10273	0.16	0.16	0.9	0.8
25Y3DDRY RET 1A & 1E 25Y3DDRY RET 1A & 1E		67.50 68.33	16.82 16.82	17.25 17.25	10273 10267	0.16 0.12	0.16 0.14	0.9 0.9	0.8
25Y3DDRY RET 1A & 1E		69.17	16.82	17.25	10255	0.11	0.11	0.9	0.8
25Y3DDRY RET 1A & 1E		70.00	16.82	17.25	10254	0.11	0.11	1.0	0.8
25Y3DDRY RET 1A & 1E 25Y3DDRY RET 1A & 1E		70.83 71.67	16.82 16.82	17.25 17.25	10254 10254	0.11 0.11	0.11 0.11	1.0 1.0	0.8
25Y3DDRY RET 1A & 1E		72.50	16.81	17.25	10233	0.01	0.06	1.0	0.8
25Y3DDRY RET 1A & 1E		73.33	16.80	17.25	10207	0.00	0.01	1.0	0.8
25Y3DDRY RET 1A & 1E 25Y3DDRY RET 1A & 1E		74.17 75.00	16.80 16.80	17.25 17.25	10200 10197	0.00	0.00	1.0 1.0	0.8
25Y3DDRY RET 1A & 1E		75.83	16.80	17.25	10196	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A & 1E		76.67	16.80	17.25	10195	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A & 1E	DAGE	77.50 78.33	16.80 16.80	17.25 17.25	10194 10194	0.00	0.00	1.0 1.0	0.8
DRY RETENTION 1A & 1B RECOVER	BASE	79.17	16.80	17.25	10194	0.00	0.00	1.0	0.8
ATTENUATION VOLUME AT HOUR 73.3		80.00	16.80	17.25	10194	0.00	0.00	1.0	0.8
REFER TO APPENDIX 4 PONDS MOD		80.83 81.67	16.80 16.80	17.25 17.25	10194 10194	0.00	0.00	1.0 1.0	0.8
FOR TREATMENT VOLUME RECOVER	BASE	82.50	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A & 1E		83.33	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A & 1E 25Y3DDRY RET 1A & 1E		84.17 85.00	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
25Y3DDRY RET 1A & 1E		85.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A & 1E		86.67	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A & 1E 25Y3DDRY RET 1A & 1E		87.50 88.33	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
25Y3DDRY RET 1A & 1E		89.17	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A & 1E	BASE	90.00	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A & 1E 25Y3DDRY RET 1A & 1E		90.83 91.67	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
25Y3DDRY RET 1A & 1E		92.50	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A & 1E	BASE	93.33	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A & 1E 25Y3DDRY RET 1A & 1E		94.17 95.00	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
25Y3DDRY RET 1A & 1E		95.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A & 1E	BASE	96.67	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A & 1E 25Y3DDRY RET 1A & 1E		97.50 98.33	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
25Y3DDRY RET 1A & 1E		99.17	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A & 1E		100.00	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A & 1E 25Y3DDRY RET 1A & 1E		100.83 101.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
25Y3DDRY RET 1A & 1E		102.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A & 1E	BASE	103.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A & 1E 25Y3DDRY RET 1A & 1E		104.83 105.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
2513DDR1 RET 1A & 1E 25Y3DDRY RET 1A & 1E		106.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A & 1E		107.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A & 1E 25Y3DDRY RET 1A & 1E		108.83 109.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
25Y3DDRY RET 1A & 1E		110.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A & 1E		111.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A & 1E 25Y3DDRY RET 1A & 1E		112.83 113.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
2573DDRY RET 1A & 1E		114.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A & 1E		115.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A & 1E 25Y3DDRY RET 1A & 1E		116.83 117.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
2573DDRY RET 1A & 1E		118.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A & 1E		119.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A & 1E 25Y3DDRY RET 1A & 1E		120.83 121.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
2513DDR1 REI 1A & 1E 25Y3DDRY RET 1A & 1E		122.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A & 1E	BASE	123.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A & 1E 25Y3DDRY RET 1A & 1E		124.83 125.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
2513DDR1 REI 1A & 1E 25Y3DDRY RET 1A & 1E		126.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A & 1E	BASE	127.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A & 1E 25Y3DDRY RET 1A & 1E		128.83 129.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
25Y3DDRY RET 1A & 1E 25Y3DDRY RET 1A & 1E		130.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A & 1E	BASE	131.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A & 1E 25Y3DDRY RET 1A & 1E		132.83 133.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
25Y3DDRY RET 1A & 1E 25Y3DDRY RET 1A & 1E		134.83	16.80	17.25	10193	0.00	0.00	1.0	0.8

NODE TIME SERIES REPOR Simulation	T Node	Group	Time	Stage	Warning	Surface	Total	Total	Total	Total
		_	hrs	ft	Stage ft	Area ft2	Inflow cfs	Outflow cfs	Vol In af	Vol Out af
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	135.83 136.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0	0.8
25Y3DDRY RET	1A & 1B	BASE	137.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET		BASE	138.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	139.83 140.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0	0.8
25Y3DDRY RET	1A & 1B	BASE	141.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	142.83 143.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
25Y3DDRY RET		BASE	144.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET		BASE	145.83	16.80	17.25 17.25	10193 10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	146.83 147.83	16.80 16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET	1A & 1B	BASE	148.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	149.83 150.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0	0.8
25Y3DDRY RET	1A & 1B	BASE	151.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	152.83 153.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0	0.8
25Y3DDRY RET		BASE	154.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET		BASE	155.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	156.83 157.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0	0.8
25Y3DDRY RET	1A & 1B	BASE	158.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	159.83 160.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0	0.8
25Y3DDRY RET		BASE	161.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET		BASE	162.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	163.83 164.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0	0.8
25Y3DDRY RET	1A & 1B	BASE	165.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	166.83 167.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0	0.8
25Y3DDRY RET		BASE	168.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET		BASE	169.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	170.83 171.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0	0.8
25Y3DDRY RET	1A & 1B	BASE	172.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	173.83 174.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0	0.8
25Y3DDRY RET	1A & 1B	BASE	175.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	176.83 177.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0	0.8
25Y3DDRY RET		BASE	178.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET		BASE	179.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	180.83 181.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
25Y3DDRY RET	1A & 1B	BASE	182.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	183.83 184.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0	0.8
25Y3DDRY RET		BASE	185.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET		BASE	186.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	187.83 188.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0	0.8
25Y3DDRY RET	1A & 1B	BASE	189.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	190.83 191.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0	0.8
25Y3DDRY RET		BASE	192.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	193.83 194.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0	0.8
25Y3DDRY RET		BASE	195.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET		BASE	196.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	197.83 198.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0	0.8
25Y3DDRY RET	1A & 1B	BASE	199.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	200.83 201.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0	0.8
25Y3DDRY RET		BASE	202.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET		BASE	203.83	16.80	17.25 17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	204.83 205.83	16.80 16.80	17.25	10193 10193	0.00	0.00	1.0	0.8
25Y3DDRY RET		BASE	206.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	207.83 208.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0	0.8
25Y3DDRY RET	1A & 1B	BASE	209.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	210.83 211.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 25Y3DDRY RET		BASE	211.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET	1A & 1B	BASE	213.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	214.83 215.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0	0.8
25Y3DDRY RET	1A & 1B	BASE	216.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 25Y3DDRY RET		BASE BASE	217.83 218.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0	0.8
25Y3DDRY RET		BASE	218.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET	1A & 1B	BASE	220.83	16.80	17.25	10193	0.00	0.00	1.0	0.8

NODE TIME SERIES REPORT										
Simulation	Node	Group	Time	Stage	Warning	Surface	Total	Total	Total	Total
			_		Stage	Area	Inflow	Outflow	Vol In	Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
25Y3DDRY RET 1A	& 1B	BASE	221.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A		BASE	222.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A 25Y3DDRY RET 1A		BASE BASE	223.83 224.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
25Y3DDRY RET 1A		BASE	225.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A		BASE	226.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A		BASE	227.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A 25Y3DDRY RET 1A		BASE BASE	228.83 229.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
25Y3DDRY RET 1A		BASE	230.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A		BASE	231.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A		BASE	232.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A 25Y3DDRY RET 1A		BASE BASE	233.83 234.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
25Y3DDRY RET 1A		BASE	235.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A	4 & 1B	BASE	236.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A		BASE	237.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A 25Y3DDRY RET 1A		BASE BASE	238.83 239.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
25Y3DDRY RET 1A		BASE	240.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A	& 1B	BASE	241.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A		BASE	242.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A 25Y3DDRY RET 1A		BASE BASE	243.83 244.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
25Y3DDRY RET 1A		BASE	245.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A		BASE	246.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A		BASE	247.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A 25Y3DDRY RET 1A		BASE BASE	248.83 249.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
25Y3DDRY RET 1A		BASE	250.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A		BASE	251.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A		BASE	252.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A 25Y3DDRY RET 1A		BASE BASE	253.83 254.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
25Y3DDRY RET 1A		BASE	255.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A	4 & 1B	BASE	256.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A		BASE	257.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A 25Y3DDRY RET 1A		BASE BASE	258.83 259.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
25Y3DDRY RET 1A		BASE	260.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A		BASE	261.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A		BASE	262.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A 25Y3DDRY RET 1A		BASE BASE	263.83 264.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
25Y3DDRY RET 1A		BASE	265.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A		BASE	266.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A 25Y3DDRY RET 1A		BASE BASE	267.83 268.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
2513DDR1 REI 1A 25Y3DDRY RET 1A		BASE	269.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A		BASE	270.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A		BASE	271.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A 25Y3DDRY RET 1A		BASE BASE	272.83 273.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
25Y3DDRY RET 1A		BASE	274.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A		BASE	275.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A		BASE	276.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A 25Y3DDRY RET 1A		BASE BASE	277.83 278.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
25Y3DDRY RET 1A		BASE	279.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A		BASE	280.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A		BASE BASE	281.83	16.80	17.25 17.25	10193 10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A 25Y3DDRY RET 1A		BASE	282.83 283.83	16.80 16.80	17.25	10193	0.00	0.00	1.0 1.0	0.8
25Y3DDRY RET 1A		BASE	284.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A		BASE	285.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A 25Y3DDRY RET 1A		BASE BASE	286.83 287.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
2513DDR1 RE1 1A 25Y3DDRY RET 1A		BASE	288.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A		BASE	289.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A		BASE	290.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A 25Y3DDRY RET 1A		BASE BASE	291.83 292.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
25Y3DDRY RET 1A		BASE	293.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A	4 & 1B	BASE	294.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A		BASE	295.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A 25Y3DDRY RET 1A		BASE BASE	296.83 297.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
2513DDRI REI 1A 25Y3DDRY RET 1A		BASE	298.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A	& 1B	BASE	299.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A		BASE	300.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A 25Y3DDRY RET 1A		BASE BASE	301.83 302.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
25Y3DDRY RET 1A 25Y3DDRY RET 1A		BASE	302.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A	4 & 1B	BASE	304.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A		BASE	305.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 1A	7 % TR	BASE	306.83	16.80	17.25	10193	0.00	0.00	1.0	0.8

NODE TIME SERIES REPORT										
Simulation	Node	Group	Time	Stage	Warning	Surface	Total	Total	Total	Total
			hrs	ft	Stage ft	Area ft2	Inflow cfs	Outflow cfs	Vol In af	Vol Out af
			111.5	1.0	10	102	CIS	CIS	aı	aı
25Y3DDRY RET 12		BASE	307.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12		BASE	308.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12 25Y3DDRY RET 12		BASE BASE	309.83 310.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
25Y3DDRY RET 12		BASE	311.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12		BASE	312.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12		BASE	313.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12		BASE	314.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12 25Y3DDRY RET 12		BASE BASE	315.83 316.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
2513DDR1 RE1 12 25Y3DDRY RET 12		BASE	317.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12		BASE	318.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12		BASE	319.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12		BASE	320.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12		BASE	321.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12 25Y3DDRY RET 12		BASE BASE	322.83 323.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
25Y3DDRY RET 12		BASE	324.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12		BASE	325.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12		BASE	326.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12	A & 1B	BASE	327.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12		BASE	328.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12		BASE	329.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12 25Y3DDRY RET 12		BASE BASE	330.83 331.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
25Y3DDRY RET 12 25Y3DDRY RET 12		BASE	331.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12		BASE	333.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12		BASE	334.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12		BASE	335.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12		BASE	336.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12		BASE	337.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12 25Y3DDRY RET 12		BASE BASE	338.83 339.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12		BASE	340.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12		BASE	341.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12		BASE	342.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12		BASE	343.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12		BASE	344.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12		BASE	345.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12 25Y3DDRY RET 12		BASE BASE	346.83 347.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
25Y3DDRY RET 12		BASE	348.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12		BASE	349.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12		BASE	350.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12		BASE	351.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12 25Y3DDRY RET 12		BASE BASE	352.83 353.83	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
25Y3DDRY RET 12		BASE	354.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12		BASE	355.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12	A & 1B	BASE	356.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12		BASE	357.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12		BASE	358.83	16.80	17.25	10193	0.00	0.00	1.0	0.8
25Y3DDRY RET 12 25Y3DDRY RET 12		BASE BASE	359.83 360.00	16.80 16.80	17.25 17.25	10193 10193	0.00	0.00	1.0 1.0	0.8
23132211 1121	1 4 12	BIIGH	300.00	10.00	17.25	10173	0.00	0.00	1.0	0.0
	RET 2	BASE	0.00	15.20	17.00	8625	0.00	0.00	0.0	0.0
	RET 2	BASE	0.25	15.20	17.00	8625	0.00	0.00	0.0	0.0
	RET 2 RET 2	BASE BASE	0.50 0.75	15.20 15.20	17.00 17.00	8625 8625	0.00	0.00	0.0	0.0
	RET 2	BASE	1.00	15.20	17.00	8625	0.00	0.00	0.0	0.0
	RET 2	BASE	1.25	15.20	17.00	8625	0.00	0.00	0.0	0.0
	RET 2	BASE	1.50	15.20	17.00	8625	0.00	0.00	0.0	0.0
	RET 2	BASE	1.75	15.20	17.00	8625	0.00	0.00	0.0	0.0
	RET 2	BASE	2.00	15.20	17.00	8625	0.00	0.00	0.0	0.0
	RET 2 RET 2	BASE BASE	2.25	15.20 15.20	17.00 17.00	8625 8625	0.00	0.00	0.0	0.0
	RET 2	BASE	2.75	15.20	17.00	8625	0.00	0.00	0.0	0.0
	RET 2	BASE	3.00	15.20	17.00	8625	0.00	0.00	0.0	0.0
25Y3D DRY	RET 2	BASE	3.25	15.20	17.00	8625	0.00	0.00	0.0	0.0
	RET 2	BASE	3.50	15.20	17.00	8625	0.00	0.00	0.0	0.0
	RET 2	BASE	3.75	15.20	17.00	8625	0.00	0.00	0.0	0.0
	RET 2	BASE	4.00	15.20	17.00 17.00	8625 8626	0.00	0.00	0.0	0.0
	RET 2 RET 2	BASE BASE	4.25 4.50	15.20 15.20	17.00	8626 8627	0.01 0.01	0.00	0.0	0.0
	RET 2	BASE	4.75	15.20	17.00	8629	0.01	0.00	0.0	0.0
	RET 2	BASE	5.00	15.20	17.00	8632	0.02	0.00	0.0	0.0
25Y3D DRY	RET 2	BASE	5.25	15.21	17.00	8635	0.02	0.00	0.0	0.0
	RET 2	BASE	5.50	15.21	17.00	8639	0.02	0.00	0.0	0.0
	RET 2	BASE	5.75	15.21	17.00	8644	0.03	0.00	0.0	0.0
	RET 2	BASE	6.00	15.21	17.00	8649	0.03	0.00	0.0	0.0
	RET 2 RET 2	BASE BASE	6.25 6.50	15.22 15.22	17.00 17.00	8655 8661	0.03	0.00	0.0	0.0
	RET 2	BASE	6.75	15.22	17.00	8668	0.04	0.00	0.0	0.0
	RET 2	BASE	7.00	15.23	17.00	8675	0.04	0.00	0.0	0.0
25Y3D DRY	RET 2	BASE	7.25	15.23	17.00	8683	0.04	0.00	0.0	0.0
25Y3D DRY	RET 2	BASE	7.50	15.24	17.00	8692	0.05	0.00	0.0	0.0

NODE TIME SERIES	REPORT									
Simulation	Node	Group	Time	Stage	Warning	Surface	Total	Total	Total	Total
			hrs	ft	Stage ft	Area ft2	Inflow cfs	Outflow cfs	Vol In af	Vol Out af
25Y3D	DRY RET 2	BASE	7.75	15.24	17.00	8700	0.05	0.00	0.0	0.0
25Y3D	DRY RET 2	BASE	8.00	15.25	17.00	8710	0.05	0.00	0.0	0.0
25Y3D	DRY RET 2	BASE	8.25	15.25	17.00	8719	0.05	0.00	0.0	0.0
25Y3D	DRY RET 2	BASE	8.33	15.26	17.00	8723	0.06	0.00	0.0	0.0
25Y3D 25Y3D	DRY RET 2 DRY RET 2	BASE BASE	8.42 8.50	15.26 15.26	17.00 17.00	8726 8729	0.06 0.06	0.00	0.0	0.0
25Y3D	DRY RET 2	BASE	8.58	15.26	17.00	8733	0.06	0.00	0.0	0.0
25Y3D	DRY RET 2	BASE	8.67	15.26	17.00	8736	0.06	0.00	0.0	0.0
25Y3D	DRY RET 2	BASE	8.75	15.27	17.00	8740	0.06	0.00	0.0	0.0
25Y3D	DRY RET 2	BASE	8.83	15.27	17.00	8743	0.06	0.00	0.0	0.0
25Y3D 25Y3D	DRY RET 2 DRY RET 2	BASE BASE	8.92 9.00	15.27 15.27	17.00 17.00	8747 8751	0.06 0.06	0.00	0.0	0.0
25Y3D	DRY RET 2	BASE	9.08	15.27	17.00	8754	0.06	0.00	0.0	0.0
25Y3D	DRY RET 2	BASE	9.17	15.28	17.00	8758	0.06	0.00	0.0	0.0
25Y3D	DRY RET 2	BASE	9.25	15.28	17.00	8762	0.06	0.00	0.0	0.0
25Y3D 25Y3D	DRY RET 2 DRY RET 2	BASE BASE	9.33 9.42	15.28 15.28	17.00 17.00	8766 8769	0.06 0.06	0.00	0.0	0.0
25Y3D	DRY RET 2	BASE	9.50	15.29	17.00	8773	0.00	0.00	0.0	0.0
25Y3D	DRY RET 2	BASE	9.58	15.29	17.00	8777	0.07	0.00	0.0	0.0
25Y3D	DRY RET 2	BASE	9.67	15.29	17.00	8781	0.07	0.00	0.0	0.0
25Y3D	DRY RET 2	BASE	9.75	15.29	17.00	8785	0.07	0.00	0.0	0.0
25Y3D 25Y3D	DRY RET 2 DRY RET 2	BASE BASE	9.83 9.92	15.29 15.30	17.00 17.00	8789 8793	0.07 0.07	0.00	0.0	0.0
25Y3D	DRY RET 2	BASE	10.00	15.30	17.00	8797	0.07	0.00	0.0	0.0
25Y3D	DRY RET 2	BASE	10.08	15.30	17.00	8801	0.07	0.00	0.0	0.0
25Y3D	DRY RET 2	BASE	10.17	15.30	17.00	8806	0.07	0.00	0.0	0.0
25Y3D	DRY RET 2	BASE	10.25	15.31	17.00	8810	0.07	0.00	0.0	0.0
25Y3D 25Y3D	DRY RET 2 DRY RET 2	BASE BASE	10.33 10.42	15.31 15.31	17.00 17.00	8814 8818	0.07 0.07	0.00	0.0	0.0
25Y3D	DRY RET 2	BASE	10.50	15.31	17.00	8823	0.07	0.00	0.0	0.0
25Y3D	DRY RET 2	BASE	10.58	15.32	17.00	8827	0.07	0.00	0.0	0.0
25Y3D	DRY RET 2	BASE	10.67	15.32	17.00	8831	0.07	0.00	0.0	0.0
25Y3D 25Y3D	DRY RET 2	BASE BASE	10.75 10.83	15.32	17.00 17.00	8836 8840	0.07 0.08	0.00	0.0	0.0
25Y3D	DRY RET 2 DRY RET 2	BASE	10.63	15.32 15.33	17.00	8845	0.08	0.00	0.0	0.0
25Y3D	DRY RET 2	BASE	11.00	15.33	17.00	8849	0.08	0.00	0.0	0.0
25Y3D	DRY RET 2	BASE	11.08	15.33	17.00	8854	0.08	0.00	0.0	0.0
25Y3D	DRY RET 2	BASE	11.17	15.33	17.00	8858	0.08	0.00	0.0	0.0
25Y3D 25Y3D	DRY RET 2 DRY RET 2	BASE BASE	11.25 11.33	15.34 15.34	17.00 17.00	8863 8867	0.08	0.00	0.0	0.0
25Y3D	DRY RET 2	BASE	11.42	15.34	17.00	8872	0.08	0.00	0.0	0.0
25Y3D	DRY RET 2	BASE	11.50	15.34	17.00	8877	0.08	0.00	0.0	0.0
25Y3D	DRY RET 2	BASE	11.58	15.35	17.00	8881	0.08	0.00	0.0	0.0
25Y3D	DRY RET 2	BASE	11.67	15.35	17.00	8886	0.08	0.00	0.0	0.0
25Y3D 25Y3D	DRY RET 2 DRY RET 2	BASE BASE	11.75 11.83	15.35 15.36	17.00 17.00	8891 8895	0.08 0.08	0.00	0.0	0.0
25Y3D	DRY RET 2	BASE	11.92	15.36	17.00	8900	0.08	0.00	0.0	0.0
25Y3D	DRY RET 2	BASE	12.00	15.36	17.00	8905	0.08	0.00	0.0	0.0
25Y3D	DRY RET 2	BASE	12.50	15.38	17.00	8935	0.09	0.00	0.0	0.0
25Y3D 25Y3D	DRY RET 2 DRY RET 2	BASE BASE	13.00 13.50	15.40	17.00 17.00	8965 8996	0.09 0.09	0.00	0.0	0.0
25Y3D	DRY RET 2	BASE	14.00	15.41 15.43	17.00	9028	0.09	0.00	0.0	0.0
25Y3D	DRY RET 2	BASE	14.50	15.45	17.00	9061	0.10	0.00	0.1	0.0
25Y3D	DRY RET 2	BASE	15.00	15.47	17.00	9094	0.10	0.00	0.1	0.0
25Y3D	DRY RET 2	BASE	15.50	15.49	17.00 17.00	9128	0.10	0.00	0.1	0.0
25Y3D 25Y3D	DRY RET 2 DRY RET 2	BASE BASE	16.00 16.50	15.51 15.53	17.00	9162 9197	0.10 0.10	0.00	0.1	0.0
25Y3D	DRY RET 2	BASE	17.00	15.55	17.00	9233	0.11	0.00	0.1	0.0
25Y3D	DRY RET 2	BASE	17.50	15.57	17.00	9268	0.11	0.00	0.1	0.0
25Y3D 25Y3D	DRY RET 2 DRY RET 2	BASE BASE	18.00 18.50	15.59 15.61	17.00 17.00	9305 9340	0.11 0.11	0.00 0.02	0.1	0.0
25Y3D	DRY RET 2	BASE	19.00	15.61	17.00	9364	0.11	0.02	0.1	0.0
25Y3D	DRY RET 2	BASE	19.50	15.63	17.00	9376	0.11	0.09	0.1	0.0
25Y3D	DRY RET 2	BASE	20.00	15.63	17.00	9382	0.11	0.10	0.1	0.0
25Y3D	DRY RET 2	BASE	20.50	15.64	17.00	9385	0.12	0.11	0.1	0.0
25Y3D	DRY RET 2 DRY RET 2	BASE BASE	21.00	15.64 15.64	17.00	9386 9387	0.12	0.11 0.12	0.1	0.0
25Y3D 25Y3D	DRY RET 2	BASE	21.50 22.00	15.64	17.00 17.00	9387	0.12 0.12	0.12	0.1 0.1	0.0
25Y3D	DRY RET 2	BASE	22.50	15.64	17.00	9388	0.12	0.12	0.1	0.0
25Y3D	DRY RET 2	BASE	23.00	15.64	17.00	9389	0.12	0.12	0.1	0.0
25Y3D	DRY RET 2	BASE	23.50	15.64	17.00	9389	0.12	0.12	0.1	0.0
25Y3D 25Y3D	DRY RET 2 DRY RET 2	BASE BASE	24.00 24.50	15.64 15.64	17.00 17.00	9389 9397	0.12 0.17	0.12 0.14	0.1	0.0 0.1
25Y3D	DRY RET 2	BASE	25.00	15.65	17.00	9405	0.17	0.14	0.1	0.1
25Y3D	DRY RET 2	BASE	25.50	15.65	17.00	9408	0.18	0.18	0.2	0.1
25Y3D	DRY RET 2	BASE	26.00	15.65	17.00	9410	0.19	0.18	0.2	0.1
25Y3D	DRY RET 2	BASE	26.50	15.65	17.00	9411	0.19	0.19	0.2	0.1
25Y3D	DRY RET 2	BASE	27.00	15.65	17.00	9412 9412	0.19 0.19	0.19	0.2	0.1
25Y3D 25Y3D	DRY RET 2 DRY RET 2	BASE BASE	27.50 28.00	15.65 15.65	17.00 17.00	9412	0.19	0.19 0.19	0.2	0.1 0.1
25Y3D	DRY RET 2	BASE	28.50	15.65	17.00	9413	0.19	0.19	0.2	0.1
25Y3D	DRY RET 2	BASE	29.00	15.65	17.00	9413	0.19	0.19	0.2	0.1
25Y3D	DRY RET 2	BASE	29.50	15.65	17.00	9414	0.20	0.19	0.2	0.1
25Y3D	DRY RET 2	BASE	30.00	15.65	17.00	9414	0.20	0.20	0.2	0.1
25Y3D 25Y3D	DRY RET 2 DRY RET 2	BASE BASE	30.50 31.00	15.65 15.65	17.00 17.00	9415 9415	0.20 0.20	0.20 0.20	0.2	0.1 0.2
23130	DIG NUI Z	בטאם	51.00	13.03	17.00	2413	5.20	0.20	0.2	0.2

NODE TIME SERIES I	KEPOKT									
Simulation	Node	Group	Time	Stage	Warning	Surface	Total	Total	Total	Total
			hrs	ft	Stage ft	Area ft2	Inflow cfs	Outflow cfs	Vol In af	Vol Out af
			III.S	I.L	I.C.	112	CIS	CIS	aı	aı
25Y3D	DRY RET 2	BASE	31.50	15.65	17.00	9415	0.20	0.20	0.3	0.2
25Y3D 25Y3D	DRY RET 2 DRY RET 2	BASE BASE	32.00 32.50	15.65 15.65	17.00 17.00	9416 9416	0.20 0.20	0.20 0.20	0.3	0.2 0.2
25Y3D	DRY RET 2	BASE	33.00	15.65	17.00	9416	0.20	0.20	0.3	0.2
25Y3D	DRY RET 2	BASE	33.50	15.65	17.00	9416	0.20	0.20	0.3	0.2
25Y3D 25Y3D	DRY RET 2 DRY RET 2	BASE BASE	34.00 34.50	15.65 15.65	17.00 17.00	9417 9417	0.20 0.20	0.20	0.3	0.2 0.2
25Y3D	DRY RET 2	BASE	35.00	15.65	17.00	9417	0.21	0.20	0.3	0.2
25Y3D	DRY RET 2	BASE BASE	35.50	15.65	17.00	9417 9418	0.21 0.21	0.21	0.3	0.2
25Y3D 25Y3D	DRY RET 2 DRY RET 2	BASE	36.00 36.50	15.65 15.66	17.00 17.00	9418	0.21	0.21 0.21	0.3	0.2
25Y3D	DRY RET 2	BASE	37.00	15.66	17.00	9418	0.21	0.21	0.3	0.3
25Y3D 25Y3D	DRY RET 2 DRY RET 2	BASE BASE	37.50 38.00	15.66 15.66	17.00 17.00	9419 9419	0.21 0.21	0.21 0.21	0.4	0.3
25Y3D	DRY RET 2	BASE	38.50	15.66	17.00	9419	0.21	0.21	0.4	0.3
25Y3D	DRY RET 2	BASE	39.00	15.66	17.00	9419	0.21	0.21	0.4	0.3
25Y3D 25Y3D	DRY RET 2 DRY RET 2	BASE BASE	39.50 40.00	15.66 15.66	17.00 17.00	9420 9420	0.21 0.21	0.21 0.21	0.4	0.3
25Y3D	DRY RET 2	BASE	40.50	15.66	17.00	9420	0.21	0.21	0.4	0.3
25Y3D	DRY RET 2	BASE	41.00	15.66	17.00	9420	0.21	0.21	0.4	0.3
25Y3D 25Y3D	DRY RET 2 DRY RET 2	BASE BASE	41.50 42.00	15.66 15.66	17.00 17.00	9420 9420	0.21 0.22	0.21 0.21	0.4	0.3
25Y3D	DRY RET 2	BASE	42.50	15.66	17.00	9420	0.22	0.22	0.4	0.3
25Y3D	DRY RET 2	BASE	43.00	15.66	17.00	9421	0.22	0.22	0.5	0.4
25Y3D 25Y3D	DRY RET 2 DRY RET 2	BASE BASE	43.50 44.00	15.66 15.66	17.00 17.00	9421 9421	0.22 0.22	0.22 0.22	0.5 0.5	0.4
25Y3D	DRY RET 2	BASE	44.50	15.66	17.00	9421	0.22	0.22	0.5	0.4
25Y3D	DRY RET 2	BASE	45.00 45.50	15.66	17.00	9421	0.22	0.22	0.5	0.4
25Y3D 25Y3D	DRY RET 2 DRY RET 2	BASE BASE	46.00	15.66 15.66	17.00 17.00	9421 9421	0.22 0.22	0.22 0.22	0.5 0.5	0.4
25Y3D	DRY RET 2	BASE	46.50	15.66	17.00	9421	0.22	0.22	0.5	0.4
25Y3D 25Y3D	DRY RET 2	BASE BASE	47.00 47.50	15.66 15.66	17.00 17.00	9421 9422	0.22 0.22	0.22 0.22	0.5 0.5	0.4
25Y3D	DRY RET 2 DRY RET 2	BASE	48.00	15.66	17.00	9422	0.22	0.22	0.5	0.4
25Y3D	DRY RET 2	BASE	48.50	15.66	17.00	9425	0.24	0.23	0.6	0.5
25Y3D 25Y3D	DRY RET 2 DRY RET 2	BASE BASE	49.00 49.50	15.66 15.66	17.00 17.00	9428 9429	0.24 0.25	0.24 0.24	0.6 0.6	0.5 0.5
25Y3D	DRY RET 2	BASE	50.00	15.66	17.00	9430	0.25	0.25	0.6	0.5
25Y3D	DRY RET 2	BASE	50.50	15.67	17.00	9436	0.29	0.27	0.6	0.5
25Y3D 25Y3D	DRY RET 2 DRY RET 2	BASE BASE	51.00 51.50	15.67 15.67	17.00 17.00	9441 9446	0.30 0.32	0.29 0.31	0.6 0.6	0.5 0.5
25Y3D	DRY RET 2	BASE	52.00	15.67	17.00	9450	0.32	0.32	0.6	0.5
25Y3D	DRY RET 2	BASE	52.50	15.68	17.00	9462	0.41	0.37	0.6	0.5
25Y3D 25Y3D	DRY RET 2 DRY RET 2	BASE BASE	53.00 53.50	15.69 15.69	17.00 17.00	9472 9487	0.42 0.51	0.41 0.47	0.7 0.7	0.6 0.6
25Y3D	DRY RET 2	BASE	54.00	15.70	17.00	9496	0.52	0.51	0.7	0.6
25Y3D	DRY RET 2	BASE	54.50	15.71	17.00	9511	0.61	0.57	0.7	0.6
25Y3D 25Y3D	DRY RET 2 DRY RET 2	BASE BASE	55.00 55.50	15.71 15.72	17.00 17.00	9520 9533	0.63 0.72	0.61 0.68	0.8	0.7 0.7
25Y3D	DRY RET 2	BASE	56.00	15.73	17.00	9542	0.73	0.72	0.8	0.7
25Y3D	DRY RET 2	BASE	56.50	15.74 15.74	17.00	9557	0.84	0.80	0.8	0.7
25Y3D 25Y3D	DRY RET 2 DRY RET 2	BASE BASE	57.00 57.50	15.74	17.00 17.00	9567 9586	0.86 1.00	0.85 0.94	0.9 0.9	0.8
25Y3D	DRY RET 2	BASE	58.00	15.76	17.00	9606	1.10	1.05	1.0	0.8
25Y3D 25Y3D	DRY RET 2 DRY RET 2	BASE BASE	58.50 59.00	15.77 15.80	17.00 17.00	9626 9674	1.22 1.59	1.17 1.45	1.0 1.1	0.9 0.9
25Y3D	DRY RET 2	BASE	59.50	15.86	17.00	9780	2.48	2.16	1.2	1.0
25Y3D	DRY RET 2	BASE	60.00	16.48	17.00	10862	15.45	11.93	1.5	1.3
25Y3D 25Y3D	DRY RET 2 DRY RET 2	BASE BASE	60.84 61.67	16.01 15.82	17.00 17.00	10037 9702	2.65 1.38	4.21 1.63	2.1 2.3	1.9 2.1
25Y3D	DRY RET 2	BASE	62.50	15.76	17.00	9606	0.92	1.05	2.4	2.2
25Y3D	DRY RET 2	BASE	63.33	15.74	17.00	9561	0.78	0.81	2.4	2.2
25Y3D 25Y3D	DRY RET 2 DRY RET 2	BASE BASE	64.17 65.00	15.73 15.70	17.00 17.00	9550 9497	0.65 0.47	0.76 0.51	2.5 2.5	2.3
25Y3D	DRY RET 2	BASE	65.83	15.70	17.00	9489	0.47	0.47	2.5	2.4
25Y3D	DRY RET 2	BASE	66.67	15.70	17.00	9488	0.47	0.47	2.6	2.4
25Y3D	DRY RET 2	BASE BASE	67.50 68.33	15.70 15.69	17.00 17.00	9488 9478	0.47 0.36	0.47 0.43	2.6 2.6	2.4 2.5
	ON 2 RECOVERS	BASE	69.17	15.68	17.00	9453	0.31	0.33	2.7	2.5
TTENUATION VOLUME		BASE	70.00	15.67	17.00	9449	0.31 0.31	0.31 0.31	2.7 2.7	2.5
REFER TO APPENDIX		BASE BASE	70.83 71.67	15.67 15.67	17.00 17.00	9448 9449	0.31	0.31	2.7	2.5 2.5
OR TREATMENT VOLU		BASE	72.50	15.65	17.00	9411	0.04	0.19	2.7	2.6
25Y3D 25Y3D	DRY RET 2 DRY RET 2	BASE BASE	73.33 74.17	15.62 15.61	17.00 17.00	9359 9342	0.00	0.05 0.02	2.7 2.7	2.6 2.6
25 Y 3 D 25 Y 3 D	DRY RET 2	BASE	75.00	15.61	17.00	9342	0.00	0.02	2.7	2.6
25Y3D	DRY RET 2	BASE	75.83	15.60	17.00	9330	0.00	0.01	2.7	2.6
25Y3D 25Y3D	DRY RET 2 DRY RET 2	BASE BASE	76.67 77.50	15.60 15.60	17.00 17.00	9328 9326	0.00	0.00	2.7 2.7	2.6 2.6
25Y3D	DRY RET 2	BASE	78.33	15.60	17.00	9325	0.00	0.00	2.7	2.6
25Y3D	DRY RET 2	BASE	79.17	15.60	17.00	9325	0.00	0.00	2.7	2.6
25Y3D 25Y3D	DRY RET 2 DRY RET 2	BASE BASE	80.00 80.83	15.60 15.60	17.00 17.00	9324 9324	0.00	0.00	2.7 2.7	2.6 2.6
25Y3D	DRY RET 2	BASE	81.67	15.60	17.00	9323	0.00	0.00	2.7	2.6
25Y3D	DRY RET 2	BASE	82.50	15.60	17.00	9323	0.00	0.00	2.7	2.6
25Y3D	DRY RET 2	BASE	83.33	15.60	17.00	9323	0.00	0.00	2.7	2.6

	NODE	TIME SERIES	REPORT										
SYSTON   DEV RET 2   BASES   64.17   15.60   17.00   9323   0.00   0.00   2.7		Simulation		Node	Group	Time	Stage	Warning	Surface	Total	Total	Total	Total
Section   Personal Program   P		DIMUIUCION		Nouc	Group	111110	beage						Vol Out
2971D						hrs	ft						af
2971D													
2971D DEV SET 2 MASE 86.83 15.60 17.00 9323 0.00 0.00 2.77 2973D DEV SET 2 MASE 86.83 15.60 17.00 9323 0.00 0.00 2.77 2973D DEV SET 2 MASE 86.83 15.60 17.00 9322 0.00 0.00 2.77 2973D DEV SET 2 MASE 86.83 15.60 17.00 9322 0.00 0.00 2.77 2973D DEV SET 2 MASE 86.83 15.60 17.00 9322 0.00 0.00 2.77 2973D DEV SET 2 MASE 96.83 15.60 17.00 9322 0.00 0.00 2.77 2973D DEV SET 2 MASE 96.83 15.60 17.00 9322 0.00 0.00 2.77 2973D DEV SET 2 MASE 96.83 15.60 17.00 9322 0.00 0.00 2.77 2973D DEV SET 2 MASE 96.83 15.60 17.00 9322 0.00 0.00 2.77 2973D DEV SET 2 MASE 96.85 15.60 17.00 9322 0.00 0.00 2.77 2973D DEV SET 2 MASE 96.85 15.60 17.00 9322 0.00 0.00 2.77 2973D DEV SET 2 MASE 96.85 15.60 17.00 9322 0.00 0.00 2.77 2973D DEV SET 2 MASE 96.85 15.60 17.00 9322 0.00 0.00 2.77 2973D DEV SET 2 MASE 96.85 15.60 17.00 9322 0.00 0.00 2.77 2973D DEV SET 2 MASE 96.85 15.60 17.00 9322 0.00 0.00 2.77 2973D DEV SET 2 MASE 96.85 15.60 17.00 9322 0.00 0.00 2.77 2973D DEV SET 2 MASE 96.85 15.60 17.00 9322 0.00 0.00 0.00 2.77 2973D DEV SET 2 MASE 96.87 16.60 17.00 9322 0.00 0.00 0.00 2.77 2973D DEV SET 2 MASE 96.87 16.60 17.00 9322 0.00 0.00 0.00 2.77 2973D DEV SET 2 MASE 96.87 16.60 17.00 9322 0.00 0.00 0.00 2.77 2973D DEV SET 2 MASE 96.87 16.60 17.00 9322 0.00 0.00 0.00 2.77 2973D DEV SET 2 MASE 96.87 16.60 17.00 9322 0.00 0.00 0.00 2.77 2973D DEV SET 2 MASE 96.87 16.60 17.00 9322 0.00 0.00 0.00 2.77 2973D DEV SET 2 MASE 96.87 16.60 17.00 9322 0.00 0.00 0.00 2.77 2973D DEV SET 2 MASE 96.87 16.60 17.00 9322 0.00 0.00 0.00 2.77 2973D DEV SET 2 MASE 96.87 16.60 17.00 9322 0.00 0.00 0.00 2.77 2973D DEV SET 2 MASE 96.87 16.60 17.00 9322 0.00 0.00 0.00 2.77 2973D DEV SET 2 MASE 10.88 16.60 17.00 9322 0.00 0.00 0.00 2.77 2973D DEV SET 2 MASE 10.88 16.60 17.00 9322 0.00 0.00 0.00 2.77 2973D DEV SET 2 MASE 10.88 16.60 17.00 9322 0.00 0.00 0.00 2.77 2973D DEV SET 2 MASE 10.88 16.80 17.00 9322 0.00 0.00 0.00 2.77 2973D DEV SET 2 MASE 10.88 16.80 17.00 9322 0.00 0.00 0.00 2.77 2973D DEV SET 2 MASE 10.88 16.80 17.00 9322 0.00 0.00 0.00 2.77 2973D DEV SET													2.6
29750 PF RET 2 RASE 86.67 15.60 17.00 9323 0.00 0.00 2.77   29750 PF RET 2 RASE 87.80 17.60 17.00 9323 0.00 0.00 2.77   29750 PF RET 2 RASE 87.80 17.60 17.00 9323 0.00 0.00 2.77   29750 PF RET 2 RASE 87.80 17.60 17.00 9322 0.00 0.00 2.77   29750 PF RET 2 RASE 97.80 17.60 17.00 9322 0.00 0.00 2.77   29750 PF RET 2 RASE 97.80 17.50 17.00 9322 0.00 0.00 2.77   29750 PF RET 2 RASE 97.80 17.50 17.00 9322 0.00 0.00 2.77   29750 PF RET 2 RASE 97.80 17.50 17.00 9322 0.00 0.00 2.77   29750 PF RET 2 RASE 97.80 17.50 17.00 9322 0.00 0.00 2.77   29750 PF RET 2 RASE 97.80 17.50 17.00 9322 0.00 0.00 2.77   29750 PF RET 2 RASE 97.80 17.50 17.00 9322 0.00 0.00 2.77   29750 PF RET 2 RASE 97.80 17.50 17.00 9322 0.00 0.00 2.77   29750 PF RET 2 RASE 97.80 17.50 17.50 17.00 9322 0.00 0.00 2.77   29750 PF RET 2 RASE 97.80 17.5													2.6 2.6
2973D   DET RET 2   38.5E   87.50   15.60   17.00   9323   0.00   0.00   2.77													2.6
25Y10 DEW HET 2 PASE 80.13 15.60 17.00 9322 0.00 0.00 2.7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2													2.6
2973D   DEY RET 2   BASE   89.17   15.60   17.00   9322   0.00   0.00   2.7													2.6
2913D DEW RET 2 BASE 90.83 15.60 17.00 3922 0.00 0.00 2.7 27 2913D DEW RET 2 BASE 91.87 15.60 17.00 3922 0.00 0.00 2.7 27 2913D DEW RET 2 BASE 91.87 15.60 17.00 3922 0.00 0.00 0.00 2.7 2913D DEW RET 2 BASE 94.17 15.60 17.00 3922 0.00 0.00 0.00 2.7 2913D DEW RET 2 BASE 94.17 15.60 17.00 3922 0.00 0.00 0.00 2.7 2913D DEW RET 2 BASE 94.17 15.60 17.00 3922 0.00 0.00 0.00 2.7 2913D DEW RET 2 BASE 94.17 15.60 17.00 3922 0.00 0.00 0.00 2.7 2913D DEW RET 2 BASE 94.17 15.60 17.00 3922 0.00 0.00 0.00 2.7 2913D DEW RET 2 BASE 94.17 15.60 17.00 3922 0.00 0.00 0.00 2.7 2913D DEW RET 2 BASE 94.17 15.60 17.00 3922 0.00 0.00 0.00 2.7 2913D DEW RET 2 BASE 94.17 15.60 17.00 3922 0.00 0.00 0.00 2.7 2913D DEW RET 2 BASE 94.17 15.60 17.00 3922 0.00 0.00 0.00 2.7 2913D DEW RET 2 BASE 94.17 15.60 17.00 3922 0.00 0.00 0.00 2.7 2913D DEW RET 2 BASE 100.83 15.60 17.00 3922 0.00 0.00 0.00 2.7 2913D DEW RET 2 BASE 100.83 15.60 17.00 3922 0.00 0.00 0.00 2.7 2913D DEW RET 2 BASE 100.83 15.60 17.00 3922 0.00 0.00 0.00 2.7 2913D DEW RET 2 BASE 100.83 15.60 17.00 3922 0.00 0.00 0.00 2.7 2913D DEW RET 2 BASE 100.83 15.60 17.00 3922 0.00 0.00 0.00 2.7 2913D DEW RET 2 BASE 100.83 15.60 17.00 3922 0.00 0.00 0.00 2.7 2913D DEW RET 2 BASE 100.83 15.60 17.00 3922 0.00 0.00 0.00 2.7 2913D DEW RET 2 BASE 100.83 15.60 17.00 3922 0.00 0.00 0.00 2.7 2913D DEW RET 2 BASE 100.83 15.60 17.00 3922 0.00 0.00 0.00 2.7 2913D DEW RET 2 BASE 105.83 15.60 17.00 3922 0.00 0.00 0.00 2.7 2913D DEW RET 2 BASE 105.83 15.60 17.00 3922 0.00 0.00 0.00 2.7 2913D DEW RET 2 BASE 105.83 15.60 17.00 3922 0.00 0.00 0.00 2.7 2913D DEW RET 2 BASE 105.83 15.60 17.00 3922 0.00 0.00 0.00 2.7 2913D DEW RET 2 BASE 105.83 15.60 17.00 3922 0.00 0.00 0.00 2.7 2913D DEW RET 2 BASE 105.83 15.60 17.00 3922 0.00 0.00 0.00 2.7 2913D DEW RET 2 BASE 105.83 15.60 17.00 3922 0.00 0.00 0.00 2.7 2913D DEW RET 2 BASE 105.83 15.60 17.00 3922 0.00 0.00 0.00 2.7 2913D DEW RET 2 BASE 105.83 15.60 17.00 3922 0.00 0.00 0.00 2.7 2913D DEW RET 2 BASE 115.83 15.60 17.00 3922 0.00 0.00 0.00 2.7 2913D DEW RET 2													2.6
29710   BRY RET 2   BASE   91.67   15.60   17.00   9322   0.00   0.00   2.7		25Y3D	DRY	RET 2	BASE	90.00	15.60	17.00			0.00		2.6
2973D													2.6
2573PD DEY RET 2 PASE 93.33 15.560 17.000 9322 0.00 0.00 0.00 2.7 2573PD DEY RET 2 PASE 94.10 15.60 17.000 9322 0.00 0.00 0.00 2.7 2573PD DEY RET 2 PASE 94.10 15.60 17.000 9322 0.00 0.00 0.00 2.7 2573PD DEY RET 2 PASE 95.83 15.60 17.000 9322 0.00 0.00 0.00 2.7 2573PD DEY RET 2 PASE 95.83 15.60 17.000 9322 0.00 0.00 0.00 2.7 2573PD DEY RET 2 PASE 95.83 15.60 17.000 9322 0.00 0.00 0.00 2.7 2573PD DEY RET 2 PASE 100.00 15.60 17.000 9322 0.00 0.00 0.00 2.7 2573PD DEY RET 2 PASE 100.00 15.60 17.000 9322 0.00 0.00 0.00 2.7 2573PD DEY RET 2 PASE 100.00 15.60 17.000 9322 0.00 0.00 0.00 2.7 2573PD DEY RET 2 PASE 100.00 15.60 17.000 9322 0.00 0.00 0.00 2.7 2573PD DEY RET 2 PASE 100.00 15.60 17.000 9322 0.00 0.00 0.00 2.7 2573PD DEY RET 2 PASE 100.00 15.60 17.000 9322 0.00 0.00 0.00 2.7 2573PD DEY RET 2 PASE 100.00 15.60 17.000 9322 0.00 0.00 0.00 2.7 2573PD DEY RET 2 PASE 100.00 15.60 17.000 9322 0.00 0.00 0.00 2.7 2573PD DEY RET 2 PASE 100.00 15.60 17.000 9322 0.00 0.00 0.00 2.7 2573PD DEY RET 2 PASE 100.00 15.60 17.000 9322 0.00 0.00 0.00 2.7 2573PD DEY RET 2 PASE 100.00 15.60 17.000 9322 0.00 0.00 0.00 2.7 2573PD DEY RET 2 PASE 100.00 15.60 17.000 9322 0.00 0.00 0.00 2.7 2573PD DEY RET 2 PASE 100.00 15.60 17.000 9322 0.00 0.00 0.00 2.7 2573PD DEY RET 2 PASE 100.00 15.60 17.000 9322 0.00 0.00 0.00 2.7 2573PD DEY RET 2 PASE 100.00 15.60 17.000 9322 0.00 0.00 0.00 2.7 2573PD DEY RET 2 PASE 100.00 15.60 17.000 9322 0.00 0.00 0.00 2.7 2573PD DEY RET 2 PASE 100.00 15.60 17.000 9322 0.00 0.00 0.00 2.7 2573PD DEY RET 2 PASE 107.80 15.60 17.000 9322 0.00 0.00 0.00 2.7 2573PD DEY RET 2 PASE 107.80 15.60 17.000 9322 0.00 0.00 0.00 2.7 2573PD DEY RET 2 PASE 107.80 15.60 17.000 9322 0.00 0.00 0.00 2.7 2573PD DEY RET 2 PASE 110.83 15.60 17.000 9322 0.00 0.00 0.00 2.7 2573PD DEY RET 2 PASE 110.83 15.60 17.000 9322 0.00 0.00 0.00 2.7 2573PD DEY RET 2 PASE 110.83 15.60 17.000 9322 0.00 0.00 0.00 2.7 2573PD DEY RET 2 PASE 110.83 15.60 17.000 9322 0.000 0.00 0.00 2.7 2573PD DEY RET 2 PASE 115.83 15.60 17.000 9322 0.000 0.00 0.00 2.7 257													2.6
2573D DEY RET 2 BASE 94.17 15.60 17.00 9322 0.00 0.00 2.7 2573D DEY RET 2 BASE 95.00 15.60 17.00 9322 0.00 0.00 2.7 2573D DEY RET 2 BASE 95.00 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 95.67 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 95.67 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 95.67 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 100.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 110.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 110.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 110.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 110.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 110.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 110.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET													2.6
2573D DEY RET 2 BASE 95.00 17.00 9322 0.00 0.00 2.7 2573D DEY RET 2 BASE 95.00 15.60 17.00 9322 0.00 0.00 2.7 2573D DEY RET 2 BASE 95.87 15.60 17.00 9322 0.00 0.00 0.27 2573D DEY RET 2 BASE 97.50 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 97.50 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 97.50 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 10.03 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 10.03 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 10.03 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 10.03 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 10.03 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 10.03 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 10.03 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 10.03 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 10.03 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 10.03 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 10.03 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 10.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 10.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 10.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 10.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 10.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 10.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 10.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 11.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 11.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 11.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 11.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 11.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 11.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 11.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 11.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D DEY RET 2 BASE 11.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 2573D													2.6
25730 DEV RET 2 DASE 95.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEV RET 2 DASE 96.60 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEV RET 2 DASE 96.50 17.00 9322 0.00 0.00 0.00 2.7 25730 DEV RET 2 DASE 98.33 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEV RET 2 DASE 98.33 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEV RET 2 DASE 100.00 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEV RET 2 DASE 100.00 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEV RET 2 DASE 100.00 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEV RET 2 DASE 102.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEV RET 2 DASE 102.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEV RET 2 DASE 102.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEV RET 2 DASE 102.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEV RET 2 DASE 102.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEV RET 2 DASE 102.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEV RET 2 DASE 102.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEV RET 2 DASE 102.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEV RET 2 DASE 107.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEV RET 2 DASE 107.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEV RET 2 DASE 107.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEV RET 2 DASE 107.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEV RET 2 DASE 107.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEV RET 2 DASE 109.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEV RET 2 DASE 112.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEV RET 2 DASE 112.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEV RET 2 DASE 112.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEV RET 2 DASE 112.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEV RET 2 DASE 112.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEV RET 2 DASE 112.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEV RET 2 DASE 112.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEV RET 2 DASE 112.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEV RET 2 DASE 112.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEV RET 2 DASE 122.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEV													2.6 2.6
25730 DEY RET 2 BASE 96.67 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEY RET 2 BASE 97.51 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEY RET 2 BASE 99.17 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEY RET 2 BASE 100.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEY RET 2 BASE 100.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEY RET 2 BASE 100.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEY RET 2 BASE 100.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEY RET 2 BASE 100.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEY RET 2 BASE 100.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEY RET 2 BASE 100.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEY RET 2 BASE 103.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEY RET 2 BASE 103.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEY RET 2 BASE 103.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEY RET 2 BASE 103.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEY RET 2 BASE 103.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEY RET 2 BASE 103.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEY RET 2 BASE 108.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEY RET 2 BASE 108.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEY RET 2 BASE 108.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEY RET 2 BASE 118.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEY RET 2 BASE 118.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEY RET 2 BASE 118.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEY RET 2 BASE 118.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEY RET 2 BASE 118.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEY RET 2 BASE 118.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEY RET 2 BASE 118.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEY RET 2 BASE 118.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEY RET 2 BASE 118.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEY RET 2 BASE 118.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEY RET 2 BASE 118.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEY RET 2 BASE 118.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25730 DEY RET 2 BASE 138.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 2													2.6
25Y3D DEV SET 2 BASE 97.50 17.60 17.00 9322 0.00 0.00 0.70 2.7 25Y3D DEV SET 2 BASE 100.00 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEV SET 2 BASE 100.00 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEV SET 2 BASE 100.00 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEV SET 2 BASE 100.00 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEV SET 2 BASE 100.00 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEV SET 2 BASE 100.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEV SET 2 BASE 101.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEV SET 2 BASE 101.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEV SET 2 BASE 101.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEV SET 2 BASE 104.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEV SET 2 BASE 104.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEV SET 2 BASE 104.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEV SET 2 BASE 104.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEV SET 2 BASE 106.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEV SET 2 BASE 108.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEV SET 2 BASE 109.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEV SET 2 BASE 109.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEV SET 2 BASE 113.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEV SET 2 BASE 113.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEV SET 2 BASE 113.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEV SET 2 BASE 113.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEV SET 2 BASE 113.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEV SET 2 BASE 113.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEV SET 2 BASE 113.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEV SET 2 BASE 113.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEV SET 2 BASE 114.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEV SET 2 BASE 114.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEV SET 2 BASE 114.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEV SET 2 BASE 114.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEV SET 2 BASE 114.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEV SET 2 BASE 114.83 15.60 17.00 9322 0.00 0.00 0.00 2.7													2.6
25730   DRY RET 2   BASE   99.17   15.60   17.00   9322   0.00   0.00   2.7													2.6
25Y3D   DRY RET 2   BASE   100.00   15.60   17.00   9322   0.00   0.00   2.7		25Y3D			BASE		15.60	17.00			0.00	2.7	2.6
25739   DRY RET 2   BASE   100.83   15.60   17.00   9322   0.00   0.00   2.7													2.6
2873    DEV RET 2   BASE   101.83   15.60   17.00   9322   0.00   0.00   2.7													2.6
25Y3D DMY RET 2 BASE 102.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DMY RET 2 BASE 104.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DMY RET 2 BASE 104.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DMY RET 2 BASE 104.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DMY RET 2 BASE 107.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DMY RET 2 BASE 107.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DMY RET 2 BASE 107.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DMY RET 2 BASE 107.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DMY RET 2 BASE 107.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DMY RET 2 BASE 113.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DMY RET 2 BASE 113.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DMY RET 2 BASE 113.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DMY RET 2 BASE 113.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DMY RET 2 BASE 113.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DMY RET 2 BASE 113.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DMY RET 2 BASE 113.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DMY RET 2 BASE 113.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DMY RET 2 BASE 113.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DMY RET 2 BASE 113.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DMY RET 2 BASE 113.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DMY RET 2 BASE 113.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DMY RET 2 BASE 117.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DMY RET 2 BASE 117.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DMY RET 2 BASE 117.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DMY RET 2 BASE 117.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DMY RET 2 BASE 117.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DMY RET 2 BASE 117.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DMY RET 2 BASE 117.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DMY RET 2 BASE 118.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DMY RET 2 BASE 118.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DMY RET 2 BASE 118.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DMY RET 2 BASE 118.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DMY RET 2 BASE 11													2.6
25Y3D DEY RET 2 BASE 103.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DEY RET 2 BASE 105.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DEY RET 2 BASE 105.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DEY RET 2 BASE 105.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DEY RET 2 BASE 108.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEY RET 2 BASE 108.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEY RET 2 BASE 108.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEY RET 2 BASE 110.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEY RET 2 BASE 113.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEY RET 2 BASE 113.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEY RET 2 BASE 113.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEY RET 2 BASE 113.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEY RET 2 BASE 113.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEY RET 2 BASE 113.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEY RET 2 BASE 113.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEY RET 2 BASE 113.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEY RET 2 BASE 113.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEY RET 2 BASE 113.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEY RET 2 BASE 115.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEY RET 2 BASE 115.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEY RET 2 BASE 115.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEY RET 2 BASE 115.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEY RET 2 BASE 115.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEY RET 2 BASE 112.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEY RET 2 BASE 120.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEY RET 2 BASE 120.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEY RET 2 BASE 120.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEY RET 2 BASE 120.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEY RET 2 BASE 120.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEY RET 2 BASE 120.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEY RET 2 BASE 120.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEY RET 2 BASE 132.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DEY RET 2 BA													2.6 2.6
2873D   DRY RET 2   BASE   104.83   15.60   17.00   9322   0.00   0.00   2.7													2.6
25Y3D   DRY RET 2   BASE   105.83   15.60   17.00   9322   0.00   0.00   2.7													2.6
25Y3D DRY RET 2 BASE 106.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 108.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 108.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 108.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 118.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 111.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 111.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 111.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 111.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 111.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 111.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 111.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 115.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 115.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 115.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 115.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 115.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 118.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 118.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 118.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 118.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 118.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 118.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 128.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 128.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 138.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 138.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 138.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 138.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 138.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 138.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 138.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 138.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 138.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 148.83 15.60 17.00													2.6
25Y3D DRY RET 2 BASE 107.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 109.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 109.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 110.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 110.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 112.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 112.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 112.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 112.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 114.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 114.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 114.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 114.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 116.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 116.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 116.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 116.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 119.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 119.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 120.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 121.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 122.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 121.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 121.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 121.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 121.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 121.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 121.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 121.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 123.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 123.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 133.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 133.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 133.83 15.60 17.00 9322 0.00 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 133.		25Y3D											2.6
25Y3D DRY RET 2 BASE 110.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 111.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 111.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 111.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 111.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 115.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 115.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 115.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 115.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 115.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 115.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 115.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 115.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 115.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 120.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 120.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 120.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 120.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 120.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 121.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 122.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 123.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 124.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 124.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 124.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 138.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 138.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 138.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 138.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 138.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 138.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 138.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 138.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 148.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 148.83 15.60 17.00			DRY	RET 2	BASE			17.00					2.6
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25Y3D   DRY RET 2   BASE   117.83   15.60   17.00   9322   0.00   0.00   2.7													2.6
ZSY3D   DRY RET 2			DRY	RET 2	BASE	116.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D   DRY RET 2   BASE   119.83   15.60   17.00   9322   0.00   0.00   2.7													2.6
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25Y3D         DRY RET 2         BASE 130.83         15.60         17.00         9322         0.00         0.00         2.7           25Y3D         DRY RET 2         BASE 131.83         15.60         17.00         9322         0.00         0.00         2.7           25Y3D         DRY RET 2         BASE 132.83         15.60         17.00         9322         0.00         0.00         2.7           25Y3D         DRY RET 2         BASE 133.83         15.60         17.00         9322         0.00         0.00         2.7           25Y3D         DRY RET 2         BASE 133.83         15.60         17.00         9322         0.00         0.00         2.7           25Y3D         DRY RET 2         BASE 136.83         15.60         17.00         9322         0.00         0.00         2.7           25Y3D         DRY RET 2         BASE 136.83         15.60         17.00         9322         0.00         0.00         2.7           25Y3D         DRY RET 2         BASE 137.83         15.60         17.00         9322         0.00         0.00         2.7           25Y3D         DRY RET 2         BASE 139.83         15.60         17.00         9322         0.00         0.00 </td <td></td> <td>2.6</td>													2.6
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25Y3D         DRY RET 2         BASE         137.83         15.60         17.00         9322         0.00         0.00         2.7           25Y3D         DRY RET 2         BASE         138.83         15.60         17.00         9322         0.00         0.00         2.7           25Y3D         DRY RET 2         BASE         140.83         15.60         17.00         9322         0.00         0.00         2.7           25Y3D         DRY RET 2         BASE         140.83         15.60         17.00         9322         0.00         0.00         2.7           25Y3D         DRY RET 2         BASE         141.83         15.60         17.00         9322         0.00         0.00         2.7           25Y3D         DRY RET 2         BASE         143.83         15.60         17.00         9322         0.00         0.00         2.7           25Y3D         DRY RET 2         BASE         143.83         15.60         17.00         9322         0.00         0.00         2.7           25Y3D         DRY RET 2         BASE         144.83         15.60         17.00         9322         0.00         0.00         2.7           25Y3D         DRY RET 2													2.6
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25Y3D DRY RET 2 BASE 153.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 154.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 155.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 155.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 156.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 157.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 158.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 159.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 159.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 160.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 160.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 161.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 161.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 161.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 161.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 161.83 15.60 17.00 9322 0.00 0.00 2.7		25Y3D	DRY	RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D DRY RET 2 BASE 154.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 155.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 156.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 157.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 157.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 158.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 159.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 160.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 161.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 161.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 161.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 161.83 15.60 17.00 9322 0.00 0.00 2.7													2.6
25Y3D DRY RET 2 BASE 155.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 156.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 157.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 158.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 158.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 159.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 160.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 161.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 161.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 161.83 15.60 17.00 9322 0.00 0.00 2.7													2.6
25Y3D DRY RET 2 BASE 156.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 157.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 158.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 159.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 159.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 160.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 161.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 161.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 162.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 162.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 162.83 15.60 17.00 9322 0.00 0.00 2.7													2.6
25Y3D DRY RET 2 BASE 157.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 158.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 159.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 160.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 161.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 161.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 162.83 15.60 17.00 9322 0.00 0.00 2.7													2.6
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25Y3D DRY RET 2 BASE 159.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 160.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 161.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 162.83 15.60 17.00 9322 0.00 0.00 2.7													2.6
25Y3D DRY RET 2 BASE 160.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 161.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 162.83 15.60 17.00 9322 0.00 0.00 2.7													2.6
25Y3D DRY RET 2 BASE 161.83 15.60 17.00 9322 0.00 0.00 2.7 25Y3D DRY RET 2 BASE 162.83 15.60 17.00 9322 0.00 0.00 2.7													2.6
25Y3D DRY RET 2 BASE 162.83 15.60 17.00 9322 0.00 0.00 2.7									9322	0.00			2.6
25Y3D DRY RET 2 BASE 163.83 15.60 17.00 9322 0.00 0.00 2.7													2.6
		25Y3D				163.83			9322				2.6
25Y3D DRY RET 2 BASE 164.83 15.60 17.00 9322 0.00 0.00 2.7													2.6
25Y3D DRY RET 2 BASE 165.83 15.60 17.00 9322 0.00 0.00 2.7		25Y3D	DRY	KET 2	BASE	165.83	15.60	17.00	9322	0.00	0.00	2.7	2.6

NODE TIME	SERIES	REPORT										
Simul	lation		Node	Group	Time	Stage	Warning	Surface	Total	Total	Total	Total
						_	Stage	Area	Inflow	Outflow	Vol In	Vol Out
					hrs	ft	ft	ft2	cfs	cfs	af	af
	25Y3D	DRY	RET 2	BASE	166.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D 25Y3D		RET 2 RET 2	BASE BASE		15.60 15.60	17.00 17.00	9322 9322	0.00	0.00	2.7 2.7	2.6 2.6
	2513D 25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE	175.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D 25Y3D		RET 2 RET 2	BASE BASE		15.60 15.60	17.00 17.00	9322 9322	0.00	0.00	2.7 2.7	2.6 2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D 25Y3D		RET 2 RET 2	BASE BASE		15.60 15.60	17.00 17.00	9322 9322	0.00	0.00	2.7 2.7	2.6 2.6
	2513D 25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D	DRY	RET 2	BASE	189.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D 25Y3D		RET 2 RET 2	BASE BASE		15.60 15.60	17.00 17.00	9322 9322	0.00	0.00	2.7 2.7	2.6 2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D 25Y3D		RET 2 RET 2	BASE BASE		15.60 15.60	17.00 17.00	9322 9322	0.00	0.00	2.7 2.7	2.6 2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE	203.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D 25Y3D		RET 2 RET 2	BASE BASE		15.60 15.60	17.00 17.00	9322 9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7 2.7	2.6 2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D 25Y3D		RET 2 RET 2	BASE BASE		15.60 15.60	17.00 17.00	9322 9322	0.00	0.00	2.7 2.7	2.6 2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE BASE		15.60	17.00	9322 9322	0.00	0.00	2.7	2.6
	25Y3D 25Y3D		RET 2 RET 2	BASE		15.60 15.60	17.00 17.00	9322	0.00	0.00	2.7 2.7	2.6 2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D 25Y3D		RET 2 RET 2	BASE BASE		15.60 15.60	17.00 17.00	9322 9322	0.00	0.00	2.7 2.7	2.6 2.6
	2513D 25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D 25Y3D		RET 2 RET 2	BASE BASE		15.60 15.60	17.00 17.00	9322 9322	0.00	0.00	2.7 2.7	2.6 2.6
	2513D 25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322 9322	0.00	0.00	2.7 2.7	2.6
	25Y3D 25Y3D		RET 2 RET 2	BASE BASE		15.60 15.60	17.00 17.00	9322	0.00	0.00	2.7	2.6 2.6
	2513D 25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D	DRY	RET 2	BASE	244.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D 25Y3D		RET 2 RET 2	BASE BASE		15.60 15.60	17.00 17.00	9322 9322	0.00	0.00	2.7 2.7	2.6 2.6
	25Y3D 25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6
	25Y3D		RET 2	BASE		15.60	17.00	9322	0.00	0.00	2.7	2.6

Simulation		Node	Group	Time	Stage	Warning	Surface	Total	Total	Total	Total
SIMUIACION		Node	Group	1111116	Stage	Stage	Area	Inflow	Outflow	Vol In	Vol Out
				hrs	ft	ft	ft2	cfs	cfs	af	af
25Y3D		RET 2	BASE	252.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	253.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	254.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	255.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	256.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	257.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2 RET 2	BASE BASE	258.83 259.83	15.60 15.60	17.00 17.00	9322 9322	0.00	0.00	2.7 2.7	2.6 2.6
25Y3D 25Y3D		RET 2	BASE	260.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	261.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	262.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	263.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	264.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	265.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	266.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D	DRY	RET 2	BASE	267.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D	DRY	RET 2	BASE	268.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	269.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	270.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	271.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	272.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	273.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	274.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	275.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D 25Y3D		RET 2 RET 2	BASE BASE	276.83 277.83	15.60 15.60	17.00 17.00	9322 9322	0.00	0.00	2.7 2.7	2.6 2.6
25Y3D		RET 2	BASE	277.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	279.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	280.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	281.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	282.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D	DRY	RET 2	BASE	283.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	284.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	285.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	286.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	287.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	288.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	289.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D 25Y3D		RET 2 RET 2	BASE BASE	290.83 291.83	15.60	17.00 17.00	9322	0.00	0.00	2.7	2.6 2.6
25Y3D		RET 2	BASE	292.83	15.60 15.60	17.00	9322 9322	0.00	0.00	2.7 2.7	2.6
25Y3D		RET 2	BASE	293.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	294.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	295.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	296.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D	DRY	RET 2	BASE	297.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	298.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	299.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	300.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	301.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	302.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D 25Y3D		RET 2 RET 2	BASE BASE	303.83 304.83	15.60 15.60	17.00 17.00	9322 9322	0.00	0.00	2.7 2.7	2.6 2.6
25Y3D		RET 2	BASE	305.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	306.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	307.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	308.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D	DRY	RET 2	BASE	309.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	310.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	311.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	312.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	313.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2 RET 2	BASE	314.83	15.60	17.00	9322 9322	0.00	0.00	2.7	2.6
25Y3D 25Y3D		RET 2	BASE BASE	315.83 316.83	15.60 15.60	17.00 17.00	9322	0.00	0.00	2.7 2.7	2.6 2.6
25Y3D 25Y3D		RET 2	BASE	316.83	15.60	17.00	9322 9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	318.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	319.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	320.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	321.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D	DRY	RET 2	BASE	322.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D	DRY	RET 2	BASE	323.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	324.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	325.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	326.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	327.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	328.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	329.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	330.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D		RET 2	BASE	331.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25Y3D 25Y3D		RET 2 RET 2	BASE BASE	332.83 333.83	15.60 15.60	17.00	9322 9322	0.00	0.00	2.7	2.6 2.6
25Y3D 25Y3D		RET 2	BASE	333.83	15.60	17.00 17.00	9322	0.00	0.00	2.7 2.7	2.6
25Y3D		RET 2	BASE	334.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
		RET 2	BASE	336.83	15.60	17.00	9322	0.00	0.00	2.7	2.6
25 Y.3D											
25Y3D 25Y3D		RET 2	BASE	337.83	15.60	17.00	9322	0.00	0.00	2.7	2.6

Simulation   Node	Vol In af Vol af 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7	Vol In af  2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.	Tota. Vol Ou a:  2 2 2 2 2
The color of the	Vol In af Vol af 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7	Vol In af  2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.	Vol Ou a:
25Y3D DRY RET 2 BASE 338.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 349.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 340.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 340.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 340.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 340.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 340.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 340.83 15.60 17.00 9322 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7	2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7	2. 2. 2. 2.
2573D DRY RET 2 BASE 340.83 15.60 17.00 9322 0.00 0.00 2573D DRY RET 2 BASE 340.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 341.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 342.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 342.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 344.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 344.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 344.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 346.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 346.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 346.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 346.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 346.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 349.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 349.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 353.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 353.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 353.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 353.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 353.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 353.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 353.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 3 BASE 353.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 3 BASE 354.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 3 BASE 354.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 3 BASE 354.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 3 BASE 354.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 3 BASE 354.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 3 BASE 354.83 15.60 17.00 9322 0.00 0.00 0.00 0.00 0.00 0	2.7 2.7 2.7 2.7 2.7 2.7 2.7	2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7	2. 2. 2. 2.
2573D DRY RET 2 BASE 340.83 15.60 17.00 9322 0.00 0.00 2573D DRY RET 2 BASE 340.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 341.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 342.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 342.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 344.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 344.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 346.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 346.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 346.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 346.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 346.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 349.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 349.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 350.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 350.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 350.83 15.60 17.00 9322 0.00 0.00 2573D DRY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 2573D DRY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 2573D DRY RET 2 BASE 353.83 15.60 17.00 9322 0.00 0.00 2573D DRY RET 2 BASE 353.83 15.60 17.00 9322 0.00 0.00 2573D DRY RET 2 BASE 353.83 15.60 17.00 9322 0.00 0.00 2573D DRY RET 2 BASE 353.83 15.60 17.00 9322 0.00 0.00 2573D DRY RET 2 BASE 353.83 15.60 17.00 9322 0.00 0.00 2573D DRY RET 2 BASE 353.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 355.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 355.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 2 BASE 355.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 3 BASE 357.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 3 BASE 357.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 3 BASE 357.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 3 BASE 357.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 3 BASE 357.83 15.60 17.00 9322 0.00 0.00 0.00 2573D DRY RET 3 BASE 7.50 14.29 16.25 5353 0.00 0.00 0.00 2573D DRY RET 3 BASE 7.50 14.29 16.25 5353 0.00 0.00	2.7 2.7 2.7 2.7 2.7 2.7 2.7	2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7	2. 2. 2. 2.
2573B DEY RET 2 BASE 340.83 15.60 17.00 9322 0.00 0.00 2573B DEY RET 2 BASE 341.83 15.60 17.00 9322 0.00 0.00 0.00 2573B DEY RET 2 BASE 342.83 15.60 17.00 9322 0.00 0.00 0.00 2573B DEY RET 2 BASE 343.83 15.60 17.00 9322 0.00 0.00 0.00 2573B DEY RET 2 BASE 343.83 15.60 17.00 9322 0.00 0.00 0.00 2573B DEY RET 2 BASE 345.83 15.60 17.00 9322 0.00 0.00 0.00 2573B DEY RET 2 BASE 345.83 15.60 17.00 9322 0.00 0.00 0.00 2573B DEY RET 2 BASE 345.83 15.60 17.00 9322 0.00 0.00 0.00 2573B DEY RET 2 BASE 345.83 15.60 17.00 9322 0.00 0.00 0.00 2573B DEY RET 2 BASE 345.83 15.60 17.00 9322 0.00 0.00 0.00 2573B DEY RET 2 BASE 348.83 15.60 17.00 9322 0.00 0.00 0.00 2573B DEY RET 2 BASE 348.83 15.60 17.00 9322 0.00 0.00 0.00 2573B DEY RET 2 BASE 348.83 15.60 17.00 9322 0.00 0.00 0.00 2573B DEY RET 2 BASE 350.83 15.60 17.00 9322 0.00 0.00 0.00 2573B DEY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 0.00 2573B DEY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 2573B DEY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 2573B DEY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 2573B DEY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 2573B DEY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 2573B DEY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 2573B DEY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 2573B DEY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 0.00 2573B DEY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 0.00 2573B DEY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 0.00 2573B DEY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 0.00 2573B DEY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 0.00 2573B DEY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 0.00 2573B DEY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 0.00 2573B DEY RET 3 BASE 351.83 15.60 17.00 9322 0.00 0.00 0.00 2573B DEY RET 3 BASE 351.83 15.60 17.00 9322 0.00 0.00 0.00 2573B DEY RET 3 BASE 351.83 15.60 17.00 9322 0.00 0.00 0.00 2573B DEY RET 3 BASE 5.50 14.29 16.25 5353 0.00 0.00 0.00 2573B DEY RET 3 BASE 5.50 14.29 16.25 5353 0.00 0.00 0.00 2573B DEY RET 3 BASE 7.50 14.29 16.25 5353 0.00 0.	2.7 2.7 2.7 2.7 2.7 2.7	2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7	2. 2. 2.
25Y3D   DRY RET 2	2.7 2.7 2.7 2.7	2.7 2.7 2.7 2.7 2.7 2.7 2.7	2.
25Y3D   DRY RET 2	2.7 2.7 2.7	2.7 2.7 2.7 2.7 2.7 2.7	
25Y3D   DRY RET 2	2.7	2.7 2.7 2.7 2.7 2.7	2.
25Y3D DRY RET 2 BASE 345.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 346.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 347.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 348.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 349.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 349.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 355.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 356.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 356.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 356.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 356.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 350.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 356.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 356.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 0.00 14.29 16.25 5553 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 0.00 14.29 16.25 5553 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 0.55 14.29 16.25 5553 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5553 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5553 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5553 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5553 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5553 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5553 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5553 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5553 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 5.50 14.29 16.25 5553 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 5.50 14.29 16.25 55	2.7	2.7 2.7 2.7 2.7	
25Y3D DRY RET 2 BASE 346.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 348.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 348.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 348.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 350.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 350.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 352.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 355.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 355.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 355.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 355.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 355.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 355.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 355.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 355.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 358.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 358.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 358.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.00 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 3.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 5.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 5.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D		2.7 2.7 2.7	2.
25Y3D DRY RET 2 BASE 347.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 349.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 349.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 350.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 353.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 353.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 355.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 355.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 355.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 357.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 356.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 356.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 356.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 359.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 360.00 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 0.00 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 0.00 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 0.00 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 0.25 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 0.00 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 0.25 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.25 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.25 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.25 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.25 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.25 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.25 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.25 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 5.55 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 5.55 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET	2 7	2.7 2.7	2. 2.
25Y3D DRY RET 2 BASE 348.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 349.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 350.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 352.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 353.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 354.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 354.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 356.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 356.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 356.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 356.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 356.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 358.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 358.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 358.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 358.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 358.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 3 BASE 0.00 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.00 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.00 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.00 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.00 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.00 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.00 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.00 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 2.25 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 2.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 3.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 3.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 4		2.7	2.
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25Y3D DRY RET 2 BASE 350.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 352.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 353.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 354.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 354.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 354.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 356.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 356.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 356.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 356.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 358.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 358.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 358.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 358.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 360.00 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 3 BASE 0.00 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.00 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.00 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.00 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.00 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.00 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 2.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 3.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 3.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 3.55 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 4.55 14	2.7		2.
25Y3D DRY RET 2 BASE 351.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 352.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 353.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 353.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 355.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 355.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 355.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 355.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 359.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 359.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 359.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 360.00 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 0.00 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 0.00 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.00 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.00 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 2.00 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 2.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 2.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 2.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 2.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 2.55 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 2.55 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 2.55 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 5.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 5.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 6.55 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY	2.7		2.
25Y3D DRY RET 2 BASE 352.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 353.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 354.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 355.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 355.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 356.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 356.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 358.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 358.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 359.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 359.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 0.00 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.00 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 2.00 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 2.00 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 2.00 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 3.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 3.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 5.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 5.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 5.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 5.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 5.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 6.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 6.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D	2.7		2.
25Y3D DRY RET 2 BASE 355.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 355.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 356.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 357.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 357.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 358.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 359.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 360.00 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 0.00 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 0.25 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.00 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.00 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.00 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.00 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 2.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 2.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 2.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 2.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 3.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 3.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 3.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 3.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 3.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 3.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 3.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 4.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 5.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3	2.7	2.7	2.
25Y3D DRY RET 2 BASE 356.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 356.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 357.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 358.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 359.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 359.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 360.00 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 0.00 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 0.25 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 0.75 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.00 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.05 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.25 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.25 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.25 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 2.25 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 2.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 2.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 3.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 3.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 3.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 3.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 3.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 3.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 3.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 5.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 5.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 6.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 6	2.7		2.
25Y3D DRY RET 2 BASE 35C.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 35C.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 35R.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 35B.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 36D.00 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 36D.00 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 0.00 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 0.55 14.29 16.25 5353 0.00 0.00 0.25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.00 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.05 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.05 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.25 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.25 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.25 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 1.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 2.05 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 2.55 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 2.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 2.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 3.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 3.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 3.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 3.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 3.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 3.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 3.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 3.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 4.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 5.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 5.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 5	2.7		2.
25Y3D DRY RET 2 BASE 35F.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 358.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 359.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 369.83 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 0.00 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 0.25 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 0.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.00 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.00 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.25 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.25 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.25 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.25 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.25 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.25 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.25 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 1.75 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 2.00 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 2.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 2.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 2.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 2.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 3.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 3.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 3.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 3.50 14.29 16.25 5353 0.00 0.00 25Y3D DRY RET 3 BASE 3.55 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 3.55 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 3.55 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 4.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 4.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 4.50 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 5.55 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 5.55 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 5.55 14.29 16.25 5353 0.00 0.00 0.00 25Y3D DRY RET 3 BASE 5	2.7		2.
25Y3D DRY RET 2 BASE 359.83 15.60 17.00 9322 0.00 0.00 25Y3D DRY RET 2 BASE 369.00 15.60 17.00 9322 0.00 0.00 0.00 25Y3D DRY RET 2 BASE 360.00 15.60 17.00 9322 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	2.7		2.
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25Y3D DRY RET 3 BASE 10.33 14.31 16.25 5391 0.01 0.00			0.
25Y3D DRY RET 3 BASE 10.42 14.31 16.25 5393 0.01 0.00 25Y3D DRY RET 3 BASE 10.50 14.31 16.25 5394 0.01 0.00			0. 0.
2513D DRI REI 3 BASE 10.50 14.31 16.25 5394 0.01 0.00 25Y3D DRY REI 3 BASE 10.58 14.31 16.25 5396 0.01 0.00			0.
		0.0	0.

lation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
 2EV2D	DRY RET 3	BASE	10 67	1/ 21	16.25	5397	0.01	0.00	0.0	0.0
25Y3D 25Y3D	DRY RET 3	BASE	10.67 10.75	14.31 14.31	16.25	5399	0.01	0.00	0.0	0.0
25Y3D	DRY RET 3	BASE	10.83	14.31	16.25	5401	0.02	0.00	0.0	0.0
25Y3D	DRY RET 3	BASE	10.92	14.32	16.25	5402	0.02	0.00	0.0	0.0
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	11.00 11.08	14.32 14.32	16.25 16.25	5404 5406	0.02 0.02	0.00	0.0	0.0
2513D 25Y3D	DRY RET 3	BASE	11.17	14.32	16.25	5407	0.02	0.00	0.0	0.0
25Y3D	DRY RET 3	BASE	11.25	14.32	16.25	5409	0.02	0.00	0.0	0.0
25Y3D	DRY RET 3	BASE	11.33	14.32	16.25	5411	0.02	0.00	0.0	0.0
25Y3D	DRY RET 3	BASE	11.42	14.32	16.25	5413	0.02	0.00	0.0	0.0
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	11.50 11.58	14.32 14.32	16.25 16.25	5414 5416	0.02 0.02	0.00	0.0	0.0
25Y3D	DRY RET 3	BASE	11.67	14.32	16.25	5418	0.02	0.00	0.0	0.0
25Y3D	DRY RET 3	BASE	11.75	14.32	16.25	5420	0.02	0.00	0.0	0.0
25Y3D	DRY RET 3	BASE	11.83	14.33	16.25	5422	0.02	0.00	0.0	0.0
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	11.92 12.00	14.33 14.33	16.25 16.25	5424 5426	0.02	0.00	0.0	0.0
25Y3D	DRY RET 3	BASE	12.50	14.33	16.25	5438	0.02	0.00	0.0	0.0
25Y3D	DRY RET 3	BASE	13.00	14.34	16.25	5451	0.02	0.00	0.0	0.0
25Y3D	DRY RET 3	BASE	13.50	14.35	16.25	5464	0.02	0.00	0.0	0.0
25Y3D	DRY RET 3	BASE	14.00	14.35	16.25	5478	0.02	0.00	0.0	0.0
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	14.50 15.00	14.36 14.37	16.25 16.25	5493 5509	0.02 0.02	0.00	0.0	0.0
25Y3D	DRY RET 3	BASE	15.50	14.38	16.25	5525	0.03	0.00	0.0	0.0
25Y3D	DRY RET 3	BASE	16.00	14.39	16.25	5541	0.03	0.00	0.0	0.0
25Y3D	DRY RET 3	BASE	16.50	14.40	16.25	5558	0.03	0.00	0.0	0.0
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	17.00 17.50	14.41 14.41	16.25 16.25	5576 5594	0.03	0.00	0.0	0.0
25Y3D	DRY RET 3	BASE	18.00	14.42	16.25	5612	0.03	0.00	0.0	0.0
25Y3D	DRY RET 3	BASE	18.50	14.43	16.25	5631	0.03	0.00	0.0	0.0
25Y3D	DRY RET 3	BASE	19.00	14.44	16.25	5650	0.03	0.00	0.0	0.0
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	19.50 20.00	14.45 14.46	16.25 16.25	5670 5690	0.03	0.00	0.0	0.0
25Y3D	DRY RET 3	BASE	20.50	14.47	16.25	5710	0.03	0.00	0.0	0.0
25Y3D	DRY RET 3	BASE	21.00	14.49	16.25	5731	0.03	0.00	0.0	0.0
25Y3D	DRY RET 3	BASE	21.50	14.50	16.25	5752	0.03	0.00	0.0	0.0
25Y3D	DRY RET 3	BASE	22.00	14.51	16.25	5773	0.04	0.00	0.0	0.0
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	22.50 23.00	14.52 14.53	16.25 16.25	5795 5817	0.04	0.00	0.0	0.0
25Y3D	DRY RET 3	BASE	23.50	14.54	16.25	5839	0.04	0.00	0.0	0.0
25Y3D	DRY RET 3	BASE	24.00	14.55	16.25	5861	0.04	0.00	0.0	0.0
25Y3D	DRY RET 3	BASE	24.50	14.57	16.25	5889	0.05	0.00	0.0	0.0
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	25.00 25.50	14.58 14.60	16.25 16.25	5922 5956	0.06 0.06	0.00	0.0	0.0
25Y3D	DRY RET 3	BASE	26.00	14.62	16.25	5989	0.06	0.00	0.0	0.0
25Y3D	DRY RET 3	BASE	26.50	14.64	16.25	6024	0.06	0.00	0.0	0.0
25Y3D	DRY RET 3	BASE	27.00	14.65	16.25	6058	0.06	0.00	0.0	0.0
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	27.50 28.00	14.67 14.69	16.25 16.25	6093 6129	0.06 0.06	0.00	0.1 0.1	0.0
25Y3D	DRY RET 3	BASE	28.50	14.71	16.25	6164	0.06	0.00	0.1	0.0
25Y3D	DRY RET 3	BASE	29.00	14.73	16.25	6200	0.06	0.00	0.1	0.0
25Y3D	DRY RET 3	BASE	29.50	14.75	16.25	6235	0.06	0.00	0.1	0.0
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	30.00 30.50	14.76 14.78	16.25 16.25	6272 6308	0.07 0.07	0.00	0.1 0.1	0.0
2513D 25Y3D	DRY RET 3	BASE	31.00	14.78	16.25	6344	0.07	0.00	0.1	0.0
25Y3D	DRY RET 3	BASE	31.50	14.82	16.25	6381	0.07	0.00	0.1	0.0
25Y3D	DRY RET 3	BASE	32.00	14.84	16.25	6417	0.07	0.00	0.1	0.0
25Y3D 25Y3D	DRY RET 3	BASE	32.50 33.00	14.86 14.88	16.25 16.25	6454 6491	0.07	0.00	0.1	0.0
2513D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	33.50	14.00	16.25	6528	0.07 0.07	0.00	0.1 0.1	0.0
25Y3D	DRY RET 3	BASE	34.00	14.92	16.25	6565	0.07	0.00	0.1	0.0
25Y3D	DRY RET 3	BASE	34.50	14.93	16.25	6602	0.07	0.00	0.1	0.0
25Y3D	DRY RET 3	BASE	35.00	14.95	16.25	6639	0.07	0.00	0.1	0.0
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	35.50 36.00	14.97 14.99	16.25 16.25	6676 6713	0.07 0.07	0.00	0.1 0.1	0.0
25Y3D	DRY RET 3	BASE	36.50	15.01	16.25	6750	0.07	0.00	0.1	0.0
25Y3D	DRY RET 3	BASE	37.00	15.03	16.25	6782	0.07	0.02	0.1	0.0
25Y3D	DRY RET 3	BASE	37.50	15.04	16.25	6807	0.07	0.03	0.1	0.0
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	38.00 38.50	15.05 15.06	16.25 16.25	6826 6839	0.07 0.07	0.04	0.1 0.1	0.0
25Y3D	DRY RET 3	BASE	39.00	15.06	16.25	6849	0.07	0.06	0.1	0.0
25Y3D	DRY RET 3	BASE	39.50	15.07	16.25	6856	0.08	0.06	0.1	0.0
25Y3D	DRY RET 3	BASE	40.00	15.07	16.25	6861	0.08	0.07	0.1	0.0
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	40.50 41.00	15.07 15.07	16.25 16.25	6864 6867	0.08	0.07	0.1 0.1	0.0
25Y3D	DRY RET 3	BASE	41.50	15.07	16.25	6869	0.08	0.07	0.1	0.0
25Y3D	DRY RET 3	BASE	42.00	15.07	16.25	6870	0.08	0.07	0.1	0.0
25Y3D	DRY RET 3	BASE	42.50	15.07	16.25	6871	0.08	0.08	0.1	0.0
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	43.00 43.50	15.07 15.07	16.25 16.25	6872 6872	0.08	0.08	0.1 0.1	0.0
25Y3D	DRY RET 3	BASE	44.00	15.07	16.25	6873	0.08	0.08	0.1	0.0
25Y3D	DRY RET 3	BASE	44.50	15.08	16.25	6873	0.08	0.08	0.2	0.0
25Y3D	DRY RET 3	BASE	45.00	15.08	16.25	6874	0.08	0.08	0.2	0.0
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	45.50 46.00	15.08 15.08	16.25 16.25	6874 6875	0.08	0.08	0.2	0.0
25Y3D	DRY RET 3	BASE	46.50	15.08	16.25	6875	0.08	0.08	0.2	0.1
				2.00			2.00			

NODE TIME SERIES K	EPORI									
Simulation	Node	Group	Time	Stage	Warning	Surface	Total	Total	Total	Total
			,	5.	Stage	Area	Inflow	Outflow	Vol In	Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af 
25Y3D	DRY RET 3	BASE	47.00	15.08	16.25	6875	0.08	0.08	0.2	0.1
25Y3D	DRY RET 3	BASE	47.50	15.08	16.25	6876	0.08	0.08	0.2	0.1
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	48.00 48.50	15.08 15.08	16.25 16.25	6876 6878	0.08	0.08	0.2 0.2	0.1 0.1
25Y3D	DRY RET 3	BASE	49.00	15.08	16.25	6881	0.09	0.08	0.2	0.1
25Y3D	DRY RET 3	BASE	49.50	15.08	16.25	6884	0.09	0.09	0.2	0.1
25Y3D	DRY RET 3	BASE	50.00	15.08	16.25	6886	0.09	0.09	0.2	0.1
25Y3D	DRY RET 3	BASE	50.50 51.00	15.08 15.09	16.25 16.25	6892	0.11 0.11	0.09	0.2 0.2	0.1
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	51.50	15.09	16.25	6898 6905	0.11	0.10 0.10	0.2	0.1 0.1
25Y3D	DRY RET 3	BASE	52.00	15.09	16.25	6911	0.12	0.11	0.2	0.1
25Y3D	DRY RET 3	BASE	52.50	15.10	16.25	6924	0.15	0.12	0.2	0.1
25Y3D	DRY RET 3	BASE	53.00	15.11	16.25	6938	0.16	0.13	0.2	0.1
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	53.50 54.00	15.12 15.13	16.25 16.25	6955 6972	0.19 0.19	0.15 0.17	0.2	0.1 0.1
25Y3D	DRY RET 3	BASE	54.50	15.14	16.25	6991	0.23	0.19	0.2	0.1
25Y3D	DRY RET 3	BASE	55.00	15.14	16.25	7008	0.23	0.21	0.3	0.1
25Y3D	DRY RET 3	BASE	55.50	15.15	16.25	7027	0.27	0.23	0.3	0.1
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	56.00 56.50	15.16 15.17	16.25 16.25	7044 7065	0.27 0.32	0.25 0.27	0.3	0.1 0.2
25Y3D	DRY RET 3	BASE	57.00	15.18	16.25	7083	0.32	0.29	0.3	0.2
25Y3D	DRY RET 3	BASE	57.50	15.20	16.25	7107	0.38	0.32	0.3	0.2
25Y3D	DRY RET 3	BASE	58.00	15.21	16.25	7136	0.42	0.36	0.3	0.2
25Y3D	DRY RET 3 DRY RET 3	BASE	58.50	15.23	16.25	7166	0.46 0.60	0.40	0.3	0.2 0.2
25Y3D 25Y3D	DRY RET 3	BASE BASE	59.00 59.50	15.25 15.31	16.25 16.25	7220 7336	0.80	0.66	0.4	0.2
25Y3D	DRY RET 3	BASE	60.00	15.87	16.25	8403	5.96	3.01	0.5	0.3
25Y3D	DRY RET 3	BASE	60.84	15.74	16.25	8167	1.03	2.30	0.8	0.5
25Y3D	DRY RET 3	BASE	61.67	15.42	16.25	7544	0.53	1.02	0.8	0.6
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	62.50 63.33	15.29 15.22	16.25 16.25	7288 7163	0.36 0.30	0.58 0.40	0.9 0.9	0.7 0.7
25Y3D	DRY RET 3	BASE	64.17	15.20	16.25	7113	0.25	0.33	0.9	0.7
25Y3D	DRY RET 3	BASE	65.00	15.16	16.25	7043	0.18	0.25	0.9	0.8
25Y3D	DRY RET 3	BASE	65.83	15.15	16.25	7010	0.18	0.21	0.9	0.8
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	66.67 67.50	15.14 15.14	16.25 16.25	6996 6991	0.18 0.18	0.19 0.19	1.0 1.0	0.8
25Y3D	DRY RET 3	BASE	68.33	15.13	16.25	6982	0.14	0.18	1.0	0.8
25Y3D	DRY RET 3	BASE	69.17	15.12	16.25	6952	0.12	0.15	1.0	0.8
25Y3D	DRY RET 3	BASE	70.00	15.11	16.25	6937	0.12	0.13	1.0	0.8
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	70.83 71.67	15.10 15.10	16.25 16.25	6931 6928	0.12 0.12	0.13 0.12	1.0 1.0	0.8 0.9
25Y3D	DRY RET 3	BASE	72.50	15.10	16.25	6899	0.02	0.10	1.0	0.9
25Y3D	DRY RET 3	BASE	73.33	15.06	16.25	6840	0.00	0.05	1.0	0.9
25Y3D	DRY RET 3	BASE	74.17	15.04	16.25	6806	0.00	0.03	1.0	0.9
25Y3D 25Y3D	DRY RET 3	BASE BASE	75.00 75.83	15.03 15.02	16.25 16.25	6785	0.00	0.02 0.01	1.0	0.9 0.9
	DRY RET 3	BASE	76.67	15.02	16.25	6772 6763	0.00	0.01	1.0 1.0	0.9
DRY RETENTION		BASE	77.50	15.01	16.25	6756	0.00	0.01	1.0	0.9
TENUATION VOLUME A		BASE	78.33	15.01	16.25	6751	0.00	0.00	1.0	0.9
REFER TO APPENDIX 4 P		BASE BASE	79.17 80.00	15.01 15.01	16.25 16.25	6747 6744	0.00	0.00	1.0 1.0	0.9 0.9
OR TREATMENT VOLUM	E RECOVERY.	BASE	80.83	15.01	16.25	6742	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	81.67	15.01	16.25	6740	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	82.50	15.01	16.25	6739	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	83.33 84.17	15.01 15.00	16.25 16.25	6737 6736	0.00	0.00	1.0 1.0	0.9
25Y3D	DRY RET 3	BASE	85.00	15.00	16.25	6735	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	85.83	15.00	16.25	6735	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	86.67 87.50	15.00 15.00	16.25 16.25	6734 6733	0.00	0.00	1.0 1.0	0.9 0.9
25Y3D	DRY RET 3	BASE	88.33	15.00	16.25	6733	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	89.17	15.00	16.25	6732	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	90.00	15.00	16.25	6732	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET 3	BASE BASE	90.83	15.00 15.00	16.25	6732	0.00	0.00	1.0 1.0	0.9 0.9
25Y3D	DRY RET 3 DRY RET 3	BASE	91.67 92.50	15.00	16.25 16.25	6731 6731	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	93.33	15.00	16.25	6731	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	94.17	15.00	16.25	6731	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	95.00	15.00	16.25	6731	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	95.83 96.67	15.00 15.00	16.25 16.25	6730 6730	0.00	0.00	1.0 1.0	0.9 0.9
25Y3D	DRY RET 3	BASE	97.50	15.00	16.25	6730	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	98.33	15.00	16.25	6730	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	99.17	15.00	16.25	6730	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	100.00 100.83	15.00 15.00	16.25 16.25	6730 6730	0.00	0.00	1.0 1.0	0.9 0.9
25Y3D	DRY RET 3	BASE	101.83	15.00	16.25	6729	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	102.83	15.00	16.25	6729	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	103.83	15.00	16.25	6729	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	104.83 105.83	15.00 15.00	16.25 16.25	6729 6729	0.00	0.00	1.0 1.0	0.9 0.9
25Y3D	DRY RET 3	BASE	106.83	15.00	16.25	6729	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	107.83	15.00	16.25	6729	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	108.83	15.00	16.25	6729	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	109.83 110.83	15.00 15.00	16.25 16.25	6729 6729	0.00	0.00	1.0 1.0	0.9 0.9
23133		2.102				3.22	2.00	3.00		2.2

Dec   Cit	Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
20730   PRY RET 2   BANES   11,88   15,00   16,25   6728   0.38   0.38   1.2   0.3				hrs	ft						
29710 DWY RET 1 ADMEN 119,881 15,00 15,05 6729 0.000 0.05 1.0 0.0 0.9 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0											
20710   DWY RET 1											
2010 DEV RET 3 DAME 15,883 15,00 15,26 1728 0.00 0.00 1.0 0.0 1.0 0.9 1.0 1.0 0.9 1.0 1.0 0.9 1.0 0.00 1.0 0.00 1.0 0.0 0.00 1.0 0.0 0	25Y3D	DRY RET 3		114.83	15.00	16.25		0.00	0.00	1.0	0.9
20710 MRY RET 3 MARS 139,88 15,00 16,25 0728 0.00 0.00 1.0 0.9											
25710   DEC   Mart 3   BAGE   119-83   15.00   16.25   6738   0.00   0.00   1.0   0.9											
29791   DEF FETT 3											
29Y30 DEF PET 3 MARS 122,83 15,00 16,25 1728 0.00 0.00 1.0 0.9 0 1											
29750 DEF EST 3 RASE 124.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 1.0 0.9 29750 DEF EST 3 RASE 124.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 0.9 29750 DEF EST 3 RASE 124.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 0.9 29750 DEF EST 3 RASE 124.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 0.9 29750 DEF EST 3 RASE 124.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 0.9 29750 DEF EST 3 RASE 124.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 0.9 29750 DEF EST 3 RASE 130.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 0.9 29750 DEF EST 3 RASE 130.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 0.9 29750 DEF EST 3 RASE 130.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 0.9 29750 DEF EST 3 RASE 130.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 0.9 29750 DEF EST 3 RASE 130.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 0.9 29750 DEF EST 3 RASE 130.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 29750 DEF EST 3 RASE 130.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 29750 DEF EST 3 RASE 130.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 29750 DEF EST 3 RASE 130.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 29750 DEF EST 3 RASE 130.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 29750 DEF EST 3 RASE 130.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 29750 DEF EST 3 RASE 130.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 29750 DEF EST 3 RASE 130.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 29750 DEF EST 3 RASE 130.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 29750 DEF EST 3 RASE 130.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 29750 DEF EST 3 RASE 130.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 29750 DEF EST 3 RASE 130.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 29750 DEF EST 3 RASE 130.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 29750 DEF EST 3 RASE 130.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 29750 DEF EST 3 RASE 130.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 29750 DEF EST 3 RASE 130.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 29750 DEF EST 3 RASE 130.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 29750 DEF EST 3 RASE 140.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 29750 DEF EST 3 RASE 140.83 15.00 16.25 6728 0.00 0	25Y3D	DRY RET 3		121.83	15.00	16.25	6728	0.00	0.00		0.9
25730   DEV RET 3   BASE   124.83   15.00   16.25   6728   0.00   0.00   1.0   0.9											
2573D   DEV RET 3   BASE   125.83   15.00   16.25   6728   0.00   0.00   1.0   0.9											
26710   DEV RET 3   BASE   129,83   15,00   16,25   6728   0.00   0.00   1.0   0.9	25Y3D	DRY RET 3	BASE	125.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
2573D DEV RET 3 DAGE 128.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 2573D DEV RET 3 BASE 132.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 2573D DEV RET 3 BASE 132.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 2573D DEV RET 3 BASE 132.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 2573D DEV RET 3 BASE 132.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 2573D DEV RET 3 BASE 132.83 15.00 16.25 6728 0.00 0.00 1.0 0.00 1.0 0.9 2573D DEV RET 3 BASE 132.83 15.00 16.25 6728 0.00 0.00 1.0 0.00 1.0 0.9 2573D DEV RET 3 BASE 132.83 15.00 16.25 6728 0.00 0.00 1.0 0.00 1.0 0.9 2573D DEV RET 3 BASE 132.83 15.00 16.25 6728 0.00 0.00 1.0 0.00 1.0 0.9 2573D DEV RET 3 BASE 132.83 15.00 16.25 6728 0.00 0.00 1.0 0.00 1.0 0.9 2573D DEV RET 3 BASE 132.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 2573D DEV RET 3 BASE 132.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 2573D DEV RET 3 BASE 132.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 2573D DEV RET 3 BASE 132.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 2573D DEV RET 3 BASE 132.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 2573D DEV RET 3 BASE 132.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 2573D DEV RET 3 BASE 144.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 2573D DEV RET 3 BASE 144.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 2573D DEV RET 3 BASE 144.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 2573D DEV RET 3 BASE 144.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 2573D DEV RET 3 BASE 144.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 2573D DEV RET 3 BASE 144.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 1.0 0.9 2573D DEV RET 3 BASE 144.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 1.0 0.9 2573D DEV RET 3 BASE 144.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 1.0 0.9 2573D DEV RET 3 BASE 144.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 1.0 0.9 2573D DEV RET 3 BASE 144.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 1.0 0.9 2573D DEV RET 3 BASE 144.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.0 1.0 0.9 2573D DEV RET 3 BASE 144.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 1.0 0.9 2573D DEV RET 3 BASE 144.83 15.00 16.25 6728 0.00											
25730   DEV RET 3   BASE   130.83   15.00   16.25   6728   0.00   0.00   1.0   0.9											
25737   DRY RET 3   BASE   13,83   15,00   16,25   6728   0.00   0.00   1.0   0.9	25Y3D										
25Y37D DEV RET 3 BASE 132.83 15.00 16.25 6728 0.00 0.00 1.00 0.0 1.0 0.9 25Y37D DEV RET 3 BASE 133.83 15.00 16.25 6728 0.00 0.00 1.00 0.0 0.9 25Y37D DEV RET 3 BASE 133.83 15.00 16.25 6728 0.00 0.00 1.00 0.9 1.0 0.9 25Y37D DEV RET 3 BASE 137.83 15.00 16.25 6728 0.00 0.00 1.00 0.00 1.0 0.9 25Y37D DEV RET 3 BASE 137.83 15.00 16.25 6728 0.00 0.00 1.00 0.00 1.0 0.9 25Y37D DEV RET 3 BASE 137.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 25Y37D DEV RET 3 BASE 140.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 25Y37D DEV RET 3 BASE 140.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 25Y37D DEV RET 3 BASE 140.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 25Y37D DEV RET 3 BASE 140.83 15.00 16.25 6728 0.00 0.00 1.0 0.00 1.0 0.9 25Y37D DEV RET 3 BASE 140.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 25Y37D DEV RET 3 BASE 140.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 25Y37D DEV RET 3 BASE 140.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 25Y37D DEV RET 3 BASE 140.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 25Y37D DEV RET 3 BASE 140.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 25Y37D DEV RET 3 BASE 140.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 25Y37D DEV RET 3 BASE 145.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 25Y37D DEV RET 3 BASE 145.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 25Y37D DEV RET 3 BASE 145.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 25Y37D DEV RET 3 BASE 145.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 25Y37D DEV RET 3 BASE 145.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 25Y37D DEV RET 3 BASE 145.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 25Y37D DEV RET 3 BASE 145.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 25Y37D DEV RET 3 BASE 145.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 25Y37D DEV RET 3 BASE 150.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 25Y37D DEV RET 3 BASE 150.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 25Y37D DEV RET 3 BASE 150.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 25Y37D DEV RET 3 BASE 150.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.00 1.0 0.9 25Y37D DEV RET 3 BASE 150.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.0 0.9 2											
25YAD	25Y3D			132.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D PRY RET 3 BASE 135.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 1.0 0.9 25Y3D PRY RET 3 BASE 135.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D PRY RET 3 BASE 138.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D PRY RET 3 BASE 138.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D PRY RET 3 BASE 138.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 1.0 0.9 25Y3D PRY RET 3 BASE 138.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 1.0 0.9 25Y3D PRY RET 3 BASE 138.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 1.0 0.9 25Y3D PRY RET 3 BASE 138.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 1.0 0.9 25Y3D PRY RET 3 BASE 144.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 25Y3D PRY RET 3 BASE 144.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 25Y3D PRY RET 3 BASE 144.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 1.0 0.9 25Y3D PRY RET 3 BASE 144.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 25Y3D PRY RET 3 BASE 144.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 25Y3D PRY RET 3 BASE 144.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 0.9 25Y3D PRY RET 3 BASE 144.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 25Y3D PRY RET 3 BASE 144.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 25Y3D PRY RET 3 BASE 144.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 25Y3D PRY RET 3 BASE 144.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 25Y3D PRY RET 3 BASE 144.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 25Y3D PRY RET 3 BASE 144.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 25Y3D PRY RET 3 BASE 144.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 25Y3D PRY RET 3 BASE 144.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 25Y3D PRY RET 3 BASE 15.0.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 25Y3D PRY RET 3 BASE 15.0.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 25Y3D PRY RET 3 BASE 15.0.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 25Y3D PRY RET 3 BASE 15.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 25Y3D PRY RET 3 BASE 15.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 25Y3D PRY RET 3 BASE 15.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 25Y3D PRY RET 3 BASE 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9 25Y3D PRY RET 3 BASE 15.00 16.25 6728 0.00 0.00 0.00 0.00 1.0 0.9 2											
25Y3D   DRY RRT 3											
29YJD DEY RET 3 DASE 138.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 1.0 0.9 2 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	25Y3D	DRY RET 3	BASE	136.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25YJD DEY RET 3 DAGE 139.83 15.00 16.25 5728 0.00 0.00 1.0 0.9  25YJD DEY RET 3 BASE 141.83 15.00 16.25 6728 0.00 0.00 1.0 0.9  25YJD DEY RET 3 BASE 141.83 15.00 16.25 6728 0.00 0.00 1.0 0.9  25YJD DEY RET 3 BASE 141.83 15.00 16.25 6728 0.00 0.00 1.0 0.9  25YJD DEY RET 3 BASE 144.83 15.00 16.25 6728 0.00 0.00 1.0 0.9  25YJD DEY RET 3 BASE 144.83 15.00 16.25 6728 0.00 0.00 1.0 0.9  25YJD DEY RET 3 BASE 144.83 15.00 16.25 6728 0.00 0.00 1.0 0.9  25YJD DEY RET 3 BASE 144.83 15.00 16.25 6728 0.00 0.00 1.0 0.9  25YJD DEY RET 3 BASE 144.83 15.00 16.25 6728 0.00 0.00 1.0 0.9  25YJD DEY RET 3 BASE 144.83 15.00 16.25 6728 0.00 0.00 1.0 0.9  25YJD DEY RET 3 BASE 144.83 15.00 16.25 6728 0.00 0.00 1.0 0.9  25YJD DEY RET 3 BASE 144.83 15.00 16.25 6728 0.00 0.00 1.0 0.9  25YJD DEY RET 3 BASE 145.83 15.00 16.25 6728 0.00 0.00 1.0 0.9  25YJD DEY RET 3 BASE 145.83 15.00 16.25 6728 0.00 0.00 1.0 0.9  25YJD DEY RET 3 BASE 145.83 15.00 16.25 6728 0.00 0.00 1.0 0.9  25YJD DEY RET 3 BASE 155.83 15.00 16.25 6728 0.00 0.00 1.0 0.9  25YJD DEY RET 3 BASE 155.83 15.00 16.25 6728 0.00 0.00 1.0 0.9  25YJD DEY RET 3 BASE 155.83 15.00 16.25 6728 0.00 0.00 1.0 0.9  25YJD DEY RET 3 BASE 155.83 15.00 16.25 6728 0.00 0.00 1.0 0.9  25YJD DEY RET 3 BASE 155.83 15.00 16.25 6728 0.00 0.00 1.0 0.9  25YJD DEY RET 3 BASE 155.83 15.00 16.25 6728 0.00 0.00 1.0 0.9  25YJD DEY RET 3 BASE 156.83 15.00 16.25 6728 0.00 0.00 1.0 0.9  25YJD DEY RET 3 BASE 156.83 15.00 16.25 6728 0.00 0.00 1.0 0.9  25YJD DEY RET 3 BASE 156.83 15.00 16.25 6728 0.00 0.00 1.0 0.9  25YJD DEY RET 3 BASE 156.83 15.00 16.25 6728 0.00 0.00 1.0 0.9  25YJD DEY RET 3 BASE 156.83 15.00 16.25 6728 0.00 0.00 1.0 0.9  25YJD DEY RET 3 BASE 156.83 15.00 16.25 6728 0.00 0.00 1.0 0.9  25YJD DEY RET 3 BASE 156.83 15.00 16.25 6728 0.00 0.00 1.0 0.9  25YJD DEY RET 3 BASE 156.83 15.00 16.25 6728 0.00 0.00 1.0 0.9  25YJD DEY RET 3 BASE 156.83 15.00 16.25 6728 0.00 0.00 1.0 0.9  25YJD DEY RET 3 BASE 156.83 15.00 16.25 6728 0.00 0.00 0.00 1.0 0.9  25YJD DEY RET 3 BASE 156.83 15.00 16.25 6728 0.00 0.00 0.	25Y3D										
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25Y3D DRY RET 3 BASE 158.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 159.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 160.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 161.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 162.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 162.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 164.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 164.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 164.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 166.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 166.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 166.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 168.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 168.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 168.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 168.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 168.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 169.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 170.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 170.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 170.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 172.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 25Y3D DRY RET 3 BASE 174.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 25Y3D DRY RET 3 BASE 174.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 25Y3D DRY RET 3 BASE 174.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 25Y3D DRY RET 3 BASE 174.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 25Y3D DRY RET 3 BASE 174.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 25Y3D DRY RET 3 BASE 174.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 25Y3D DRY RET 3 BASE 178.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 25Y3D DRY RET 3 BASE 184.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 25Y3D DRY RET 3 BASE 184.83 15.00 16.25 6728 0.00 0.00 1.0 0.0 1.0 0.9 25Y3D DRY RET	25Y3D 25Y3D										
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25Y3D   DRY RET 3   BASE   161.83   15.00   16.25   6728   0.00   0.00   1.0   0.9											
25Y3D   DRY RET 3   BASE   162.83   15.00   16.25   6728   0.00   0.00   1.0   0.9											
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25Y3D DRY RET 3 BASE 187.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 188.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 189.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 190.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 191.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 191.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 192.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 192.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 193.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 194.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 194.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 194.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 195.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 195.83 15.00 16.25 6728 0.00 0.00 1.0 0.9											
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25Y3D DRY RET 3 BASE 191.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 192.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 193.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 194.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 194.83 15.00 16.25 6728 0.00 0.00 1.0 0.9 25Y3D DRY RET 3 BASE 195.83 15.00 16.25 6728 0.00 0.00 1.0 0.9											
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25Y3D DRY RET 3 BASE 195.83 15.00 16.25 6728 0.00 0.00 1.0 0.9											
25Y3D DRY RET 3 BASE 196.83 15.00 16.25 6728 0.00 0.00 1.0 0.9	25Y3D	DRY RET 3		195.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
	25Y3D	DRY RET 3	BASE	196.83	15.00	16.25	6728	0.00	0.00	1.0	0.9

lation	Noc	de Grouj	p Time	Stage	Warning	Surface	Total	Total	Total	Total
			hrs	ft	Stage ft	Area ft2	Inflow cfs	Outflow cfs	Vol In af	Vol Out af
25Y3D	DRY RET				16.25	6728	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET				16.25 16.25	6728 6728	0.00	0.00	1.0 1.0	0.9 0.9
25Y3D	DRY RET	3 BAS	E 200.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET				16.25	6728	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET				16.25 16.25	6728 6728	0.00	0.00	1.0	0.9 0.9
25Y3D	DRY RET				16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET				16.25	6728	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET				16.25 16.25	6728 6728	0.00	0.00	1.0	0.9 0.9
25Y3D	DRY RET				16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET				16.25	6728	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET				16.25 16.25	6728 6728	0.00	0.00	1.0	0.9 0.9
25Y3D	DRY RET	3 BAS	E 212.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET				16.25	6728	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET				16.25 16.25	6728 6728	0.00	0.00	1.0	0.9 0.9
25Y3D	DRY RET	3 BAS	E 216.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET				16.25 16.25	6728 6728	0.00	0.00	1.0	0.9 0.9
25Y3D	DRI REI				16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET	3 BAS	E 220.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET				16.25 16.25	6728 6728	0.00	0.00	1.0	0.9 0.9
25Y3D	DRY RET				16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET				16.25	6728	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET				16.25 16.25	6728 6728	0.00	0.00	1.0	0.9 0.9
25Y3D	DRY RET				16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET				16.25	6728	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET				16.25 16.25	6728 6728	0.00	0.00	1.0 1.0	0.9 0.9
25Y3D	DRY RET	3 BAS	E 231.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET				16.25 16.25	6728 6728	0.00	0.00	1.0 1.0	0.9 0.9
25Y3D	DRY RET				16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET	3 BAS	E 235.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET DRY RET				16.25 16.25	6728 6728	0.00	0.00	1.0 1.0	0.9 0.9
25Y3D	DRY RET				16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET				16.25	6728	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET				16.25 16.25	6728 6728	0.00	0.00	1.0	0.9 0.9
25Y3D	DRY RET	3 BAS	E 242.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET DRY RET				16.25 16.25	6728 6728	0.00	0.00	1.0	0.9 0.9
25Y3D	DRY RET				16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET				16.25	6728	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET				16.25 16.25	6728 6728	0.00	0.00	1.0	0.9 0.9
25Y3D	DRY RET	3 BAS	E 249.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET				16.25 16.25	6728 6728	0.00	0.00	1.0	0.9 0.9
25Y3D	DRY RET				16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET	3 BAS	E 253.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET				16.25 16.25	6728 6728	0.00	0.00	1.0 1.0	0.9 0.9
25Y3D	DRY RET	3 BAS	E 256.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET				16.25 16.25	6728 6728	0.00	0.00	1.0	0.9 0.9
25Y3D	DRY RET				16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET				16.25	6728	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET				16.25 16.25	6728 6728	0.00	0.00	1.0	0.9 0.9
25Y3D	DRY RET	3 BAS	E 263.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET				16.25	6728 6728	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET				16.25 16.25	6728	0.00	0.00	1.0	0.9 0.9
25Y3D	DRY RET	3 BAS	E 267.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET				16.25 16.25	6728 6728	0.00	0.00	1.0	0.9 0.9
25Y3D	DRY RET				16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET				16.25	6728	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET				16.25 16.25	6728 6728	0.00	0.00	1.0	0.9 0.9
25Y3D	DRY RET	3 BAS	E 274.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET				16.25 16.25	6728 6728	0.00	0.00	1.0	0.9 0.9
25Y3D	DRY RET				16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET	3 BAS	E 278.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET				16.25 16.25	6728 6728	0.00	0.00	1.0	0.9 0.9
25Y3D	DRY RET	3 BAS	E 281.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET	3 BAS	E 282.83	15.00	16.25	6728	0.00	0.00	1.0	0.9

NODE TIME SERIES R	REPORT									
Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25Y3D	DRY RET 3	BASE	283.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	284.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	285.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	286.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	287.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	288.83 289.83	15.00 15.00	16.25 16.25	6728 6728	0.00	0.00	1.0	0.9 0.9
25Y3D	DRY RET 3	BASE	290.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	291.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	292.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	293.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE BASE	294.83	15.00 15.00	16.25 16.25	6728 6728	0.00	0.00	1.0	0.9 0.9
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE	295.83 296.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	297.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	298.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	299.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	300.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	301.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3 DRY RET 3	BASE	302.83	15.00	16.25 16.25	6728 6728	0.00	0.00	1.0	0.9 0.9
25Y3D 25Y3D	DRY RET 3	BASE BASE	303.83 304.83	15.00 15.00	16.25	6728	0.00	0.00	1.0 1.0	0.9
25Y3D	DRY RET 3	BASE	305.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	306.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	307.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	308.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	309.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	310.83 311.83	15.00 15.00	16.25 16.25	6728 6728	0.00	0.00	1.0	0.9 0.9
25Y3D	DRY RET 3	BASE	312.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	313.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	314.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	315.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	316.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	317.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	318.83 319.83	15.00 15.00	16.25 16.25	6728 6728	0.00	0.00	1.0	0.9 0.9
25Y3D	DRY RET 3	BASE	320.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	321.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	322.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	323.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	324.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	325.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	326.83 327.83	15.00 15.00	16.25 16.25	6728 6728	0.00	0.00	1.0	0.9 0.9
25Y3D	DRY RET 3	BASE	328.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	329.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	330.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	331.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	332.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	333.83 334.83	15.00 15.00	16.25 16.25	6728 6728	0.00	0.00	1.0 1.0	0.9 0.9
25Y3D	DRY RET 3	BASE	335.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	336.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	337.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	338.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	339.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	340.83 341.83	15.00 15.00	16.25 16.25	6728 6728	0.00	0.00	1.0	0.9 0.9
25Y3D	DRY RET 3	BASE	342.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	343.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	344.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	345.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	346.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	347.83 348.83	15.00 15.00	16.25 16.25	6728 6728	0.00	0.00	1.0	0.9 0.9
25Y3D	DRY RET 3	BASE	349.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	350.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	351.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	352.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	353.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	354.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D 25Y3D	DRY RET 3 DRY RET 3	BASE BASE	355.83 356.83	15.00 15.00	16.25 16.25	6728 6728	0.00	0.00	1.0	0.9 0.9
25Y3D 25Y3D	DRY RET 3	BASE	357.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	358.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	359.83	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	DRY RET 3	BASE	360.00	15.00	16.25	6728	0.00	0.00	1.0	0.9
25Y3D	WET DET 4	BASE	0.00	13.00	16.25	40946	0.00	0.00	0.0	0.0
25Y3D	WET DET 4	BASE	0.25	13.00	16.25	40946	0.00	0.00	0.0	0.0
25Y3D	WET DET 4	BASE	0.50	13.00	16.25	40946	0.00	0.00	0.0	0.0
25Y3D 25Y3D	WET DET 4 WET DET 4	BASE BASE	0.75 1.00	13.00 13.00	16.25 16.25	40946 40946	0.00	0.00	0.0	0.0
25Y3D	WET DET 4	BASE	1.25	13.00	16.25	40946	0.00	0.00	0.0	0.0
25Y3D	WET DET 4	BASE	1.50	13.00	16.25	40946	0.00	0.00	0.0	0.0

NODE	TIME SERIES	REPORT									
	Cimulation	Nodo	Croun	Timo	Ctoco	Monning	Surface	motol	Total	Total	Total
	Simulation	Node	Group	Time	Stage	Warning Stage	Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
				hrs	ft	ft	ft2	cfs	cfs	voi in af	af
				111.5	1.0	I.C	102	CIB	CIB	a1	α <u>ι</u>
	25Y3D	WET DET 4	BASE	1.75	13.00	16.25	40946	0.00	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	2.00	13.00	16.25	40946	0.00	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	2.25	13.00	16.25	40946	0.00	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	2.50	13.00	16.25	40946	0.00	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	2.75	13.00	16.25	40946	0.00	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	3.00	13.00	16.25	40946	0.00	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	3.25	13.00	16.25	40946	0.00	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	3.50	13.00	16.25	40946	0.00	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	3.75	13.00	16.25	40946	0.00	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	4.00	13.00	16.25	40946	0.00	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	4.25	13.00	16.25	40946	0.00	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	4.50	13.00	16.25	40946	0.00	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	4.75	13.00	16.25	40946	0.00	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	5.00	13.00	16.25	40947	0.00	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	5.25	13.00	16.25	40947	0.01	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	5.50	13.00	16.25	40948	0.01	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	5.75	13.00	16.25	40950	0.02	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	6.00	13.00	16.25	40952	0.02	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	6.25	13.00	16.25	40955	0.02	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	6.50	13.00	16.25	40959 40962	0.03	0.00	0.0	0.0
	25Y3D 25Y3D	WET DET 4 WET DET 4	BASE BASE	6.75 7.00	13.00 13.00	16.25 16.25	40962	0.03	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	7.25	13.00	16.25	40971	0.03	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	7.50	13.01	16.25	40977	0.04	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	7.75	13.01	16.25	40982	0.04	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	8.00	13.01	16.25	40988	0.05	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	8.25	13.01	16.25	40995	0.05	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	8.33	13.01	16.25	40997	0.05	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	8.42	13.01	16.25	40999	0.05	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	8.50	13.01	16.25	41002	0.05	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	8.58	13.01	16.25	41004	0.05	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	8.67	13.01	16.25	41006	0.06	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	8.75	13.01	16.25	41009	0.06	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	8.83	13.01	16.25	41011	0.06	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	8.92	13.01	16.25	41014	0.06	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	9.00	13.01	16.25	41016	0.06	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	9.08	13.01	16.25	41019	0.06	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	9.17	13.01	16.25	41022	0.06	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	9.25	13.01	16.25	41024	0.06	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	9.33	13.01	16.25	41027	0.06	0.00	0.0	0.0
	25Y3D 25Y3D	WET DET 4	BASE	9.42	13.01	16.25 16.25	41030 41033	0.06 0.06	0.00	0.0	0.0
	25Y3D	WET DET 4 WET DET 4	BASE BASE	9.50	13.01	16.25	41033	0.00	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	9.58 9.67	13.01 13.02	16.25	41038	0.07	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	9.75	13.02	16.25	41041	0.07	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	9.83	13.02	16.25	41044	0.07	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	9.92	13.02	16.25	41047	0.07	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	10.00	13.02	16.25	41050	0.07	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	10.08	13.02	16.25	41053	0.07	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	10.17	13.02	16.25	41056	0.07	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	10.25	13.02	16.25	41060	0.07	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	10.33	13.02	16.25	41063	0.07	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	10.42	13.02	16.25	41066	0.07	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	10.50	13.02	16.25	41069	0.07	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	10.58	13.02	16.25	41072	0.08	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	10.67	13.02	16.25	41076	0.08	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	10.75	13.02	16.25	41079	0.08	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	10.83	13.02	16.25 16.25	41082 41086	0.08	0.00	0.0	0.0
	25Y3D 25Y3D	WET DET 4 WET DET 4	BASE BASE	10.92 11.00	13.02 13.02	16.25	41086	0.08	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	11.00	13.02	16.25	41093	0.08	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	11.17	13.02	16.25	41096	0.08	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	11.25	13.03	16.25	41100	0.08	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	11.33	13.03	16.25	41103	0.08	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	11.42	13.03	16.25	41107	0.08	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	11.50	13.03	16.25	41110	0.08	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	11.58	13.03	16.25	41114	0.08	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	11.67	13.03	16.25	41118	0.08	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	11.75	13.03	16.25	41121	0.09	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	11.83	13.03	16.25	41125	0.09	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	11.92	13.03	16.25	41129	0.09	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	12.00	13.03	16.25	41133	0.09	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	12.50	13.03	16.25	41156	0.09	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	13.00	13.04	16.25	41180	0.10	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	13.50	13.04	16.25	41205	0.10	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	14.00	13.05	16.25	41230	0.10	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	14.50	13.05	16.25	41256	0.11	0.00	0.0	0.0
	25Y3D	WET DET 4	BASE	15.00	13.06	16.25	41283	0.11	0.01	0.1	0.0
	25Y3D	WET DET 4	BASE	15.50	13.06	16.25	41311	0.11	0.01	0.1	0.0
	25Y3D	WET DET 4 WET DET 4	BASE BASE	16.00	13.07 13.07	16.25 16.25	41339 41367	0.11	0.01	0.1 0.1	0.0
	25Y3D 25Y3D	WET DET 4	BASE	16.50 17.00	13.07	16.25	41367	0.12 0.12	0.01	0.1	0.0
	25Y3D 25Y3D	WET DET 4	BASE	17.50	13.07	16.25	41396	0.12	0.01	0.1	0.0
	25Y3D	WET DET 4	BASE	18.00	13.08	16.25	41425	0.12	0.01	0.1	0.0
	25Y3D	WET DET 4	BASE	18.50	13.00	16.25	41485	0.12	0.01	0.1	0.0
	25Y3D	WET DET 4	BASE	19.00	13.10	16.25	41525	0.19	0.02	0.1	0.0
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NODE	TIME SERIES	REPORT										
	Simulation		Mada	Cwann	Time	Ctoco	Warning	Surface	Total	Total	Total	Total
	SIMUIACION		Node	Group	111111111111111111111111111111111111111	Stage	Stage	Area	Inflow	Outflow	Vol In	Vol Out
					hrs	ft	ft	ft2	cfs	cfs	af	af
										015		
	25Y3D	WE	r det 4	BASE	19.50	13.10	16.25	41574	0.22	0.02	0.1	0.0
	25Y3D	WE	T DET 4	BASE	20.00	13.11	16.25	41629	0.24	0.02	0.1	0.0
	25Y3D	WE	r det 4	BASE	20.50	13.12	16.25	41686	0.24	0.02	0.1	0.0
	25Y3D		r det 4	BASE	21.00	13.13	16.25	41744	0.25	0.03	0.1	0.0
	25Y3D		r det 4	BASE	21.50	13.14	16.25	41802	0.25	0.03	0.1	0.0
	25Y3D		r det 4	BASE	22.00	13.15	16.25	41860	0.26	0.04	0.2	0.0
	25Y3D		r det 4	BASE	22.50	13.16	16.25	41917	0.26	0.04	0.2	0.0
	25Y3D		r det 4	BASE	23.00	13.17	16.25	41975	0.26	0.04	0.2	0.0
	25Y3D		r det 4	BASE	23.50	13.18	16.25	42031	0.27	0.05	0.2	0.0
	25Y3D		r det 4	BASE	24.00	13.19	16.25	42088	0.27	0.05	0.2	0.0
	25Y3D		r det 4	BASE	24.50	13.20	16.25	42154	0.35	0.06	0.2	0.0
	25Y3D 25Y3D		F DET 4 F DET 4	BASE BASE	25.00 25.50	13.21 13.23	16.25 16.25	42234 42319	0.39	0.06 0.07	0.2	0.0
	25Y3D		r DET 4	BASE	26.00	13.24	16.25	42404	0.40	0.07	0.2	0.0
	25Y3D		r DET 4	BASE	26.50	13.24	16.25	42490	0.41	0.08	0.3	0.0
	25Y3D		r DET 4	BASE	27.00	13.27	16.25	42575	0.42	0.08	0.3	0.0
	25Y3D		r det 4	BASE	27.50	13.28	16.25	42659	0.42	0.09	0.3	0.0
	25Y3D		T DET 4	BASE	28.00	13.30	16.25	42742	0.42	0.10	0.3	0.0
	25Y3D		T DET 4	BASE	28.50	13.31	16.25	42825	0.43	0.10	0.3	0.0
	25Y3D		r det 4	BASE	29.00	13.33	16.25	42907	0.43	0.11	0.4	0.0
	25Y3D	WE	T DET 4	BASE	29.50	13.34	16.25	42990	0.43	0.11	0.4	0.1
	25Y3D	WE	r det 4	BASE	30.00	13.35	16.25	43071	0.44	0.11	0.4	0.1
	25Y3D	WE	r det 4	BASE	30.50	13.37	16.25	43153	0.44	0.12	0.4	0.1
	25Y3D		r det 4	BASE	31.00	13.38	16.25	43234	0.44	0.12	0.4	0.1
	25Y3D		r det 4	BASE	31.50	13.39	16.25	43315	0.45	0.12	0.5	0.1
	25Y3D		r det 4	BASE	32.00	13.41	16.25	43396	0.45	0.13	0.5	0.1
	25Y3D		r det 4	BASE	32.50	13.42	16.25	43477	0.45	0.13	0.5	0.1
	25Y3D		r det 4	BASE	33.00	13.43	16.25	43557	0.45	0.13	0.5	0.1
	25Y3D		r Det 4	BASE	33.50	13.45	16.25	43637	0.45	0.13	0.5	0.1
	25Y3D 25Y3D		r det 4 r det 4	BASE BASE	34.00	13.46 13.47	16.25 16.25	43717	0.46	0.14	0.5 0.6	0.1
	25Y3D		r DET 4	BASE	34.50 35.00	13.47	16.25	43796 43875	0.46 0.46	0.14 0.14	0.6	0.1
	25Y3D		r DET 4	BASE	35.50	13.49	16.25	43954	0.46	0.14	0.6	0.1
	25Y3D		r DET 4	BASE	36.00	13.51	16.25	44031	0.46	0.14	0.6	0.1
	25Y3D		r DET 4	BASE	36.50	13.52	16.25	44103	0.47	0.19	0.6	0.1
	25Y3D		r DET 4	BASE	37.00	13.53	16.25	44169	0.49	0.23	0.7	0.1
	25Y3D		r det 4	BASE	37.50	13.54	16.25	44229	0.51	0.27	0.7	0.2
	25Y3D		r det 4	BASE	38.00	13.55	16.25	44283	0.52	0.31	0.7	0.2
	25Y3D		r det 4	BASE	38.50	13.56	16.25	44330	0.53	0.35	0.7	0.2
	25Y3D	WE	r det 4	BASE	39.00	13.57	16.25	44371	0.54	0.38	0.7	0.2
	25Y3D		r det 4	BASE	39.50	13.57	16.25	44406	0.54	0.41	0.8	0.2
	25Y3D		r det 4	BASE	40.00	13.58	16.25	44435	0.55	0.44	0.8	0.2
	25Y3D		r det 4	BASE	40.50	13.58	16.25	44460	0.55	0.46	0.8	0.2
	25Y3D		r det 4	BASE	41.00	13.59	16.25	44480	0.56	0.48	0.8	0.3
	25Y3D		r det 4	BASE	41.50	13.59	16.25	44496	0.56	0.50	0.9	0.3
	25Y3D		r det 4	BASE	42.00	13.59	16.25	44510	0.56	0.51	0.9	0.3
	25Y3D 25Y3D		F DET 4 F DET 4	BASE BASE	42.50	13.59 13.59	16.25 16.25	44521	0.56	0.52	0.9	0.3
	25Y3D		r DET 4	BASE	43.00 43.50	13.59	16.25	44530 44537	0.57 0.57	0.53 0.54	0.9 1.0	0.3
	25Y3D		r DET 4	BASE	44.00	13.60	16.25	44544	0.57	0.55	1.0	0.4
	25Y3D		r DET 4	BASE	44.50	13.60	16.25	44549	0.57	0.55	1.0	0.4
	25Y3D		r det 4	BASE	45.00	13.60	16.25	44553	0.57	0.56	1.0	0.4
	25Y3D		r Det 4	BASE	45.50	13.60	16.25	44557	0.57	0.56	1.0	0.5
	25Y3D	WE	T DET 4	BASE	46.00	13.60	16.25	44560	0.57	0.56	1.1	0.5
	25Y3D	WE	r det 4	BASE	46.50	13.60	16.25	44563	0.58	0.56	1.1	0.5
	25Y3D	WE	r det 4	BASE	47.00	13.60	16.25	44565	0.58	0.57	1.1	0.5
	25Y3D		r det 4	BASE	47.50	13.60	16.25	44567	0.58	0.57	1.1	0.6
	25Y3D		r det 4	BASE	48.00	13.60	16.25	44569	0.58	0.57	1.2	0.6
	25Y3D		r det 4	BASE	48.50	13.60	16.25	44575	0.62	0.58	1.2	0.6
	25Y3D		r det 4 r det 4	BASE	49.00	13.60	16.25	44586	0.63	0.59	1.2	0.6
	25Y3D 25Y3D		r det 4 r det 4	BASE BASE	49.50 50.00	13.61 13.61	16.25 16.25	44597 44609	0.65 0.66	0.60 0.61	1.2	0.7 0.7
	25Y3D		r DET 4	BASE	50.00	13.61	16.25	44609	0.88	0.63	1.3	0.7
	25Y3D		r DET 4	BASE	51.00	13.61	16.25	44652	0.76	0.66	1.3	0.7
	25Y3D		r DET 4	BASE	51.50	13.62	16.25	44681	0.82	0.69	1.4	0.8
	25Y3D		r DET 4	BASE	52.00	13.62	16.25	44711	0.84	0.73	1.4	0.8
	25Y3D		r DET 4	BASE	52.50	13.63	16.25	44755	1.01	0.78	1.4	0.8
	25Y3D	WE	r det 4	BASE	53.00	13.64	16.25	44814	1.08	0.85	1.5	0.9
	25Y3D		r det 4	BASE	53.50	13.65	16.25	44885	1.27	0.94	1.5	0.9
	25Y3D		r det 4	BASE	54.00	13.67	16.25	44964	1.35	1.04	1.6	0.9
	25Y3D		r det 4	BASE	54.50	13.68	16.25	45050	1.55	1.16	1.6	1.0
	25Y3D		r det 4	BASE	55.00	13.70	16.25	45140	1.63	1.28	1.7	1.0
	25Y3D		r det 4	BASE	55.50	13.71	16.25	45233	1.83	1.42	1.8	1.1
	25Y3D		r det 4	BASE	56.00	13.73	16.25	45326	1.91	1.56	1.9	1.1
	25Y3D		r Det 4	BASE	56.50	13.74	16.25	45424	2.15	1.71	1.9	1.2
	25Y3D		r Det 4	BASE	57.00	13.76	16.25	45524	2.25	1.87	2.0	1.3
	25Y3D 25Y3D		r det 4 r det 4	BASE BASE	57.50 58.00	13.78 13.80	16.25 16.25	45633 45772	2.56 2.84	2.04 2.23	2.1 2.2	1.4 1.5
	25Y3D		r DET 4	BASE	58.50	13.80	16.25	45772	3.15	2.23	2.2	1.5
	25Y3D		r DET 4	BASE	59.00	13.87	16.25	46177	3.15	2.43	2.4	1.7
	25Y3D		r DET 4	BASE	59.50	13.07	16.25	46659	6.04	3.34	2.7	1.8
	25Y3D		r DET 4	BASE	60.00	14.56	16.25	50344	35.07	8.32	3.6	2.0
	25Y3D		r DET 4	BASE	60.84	15.08	16.25	53499	9.98	13.33	5.1	2.8
	25Y3D		r DET 4	BASE	61.67	14.83	16.25	52003	4.45	8.33	5.6	3.5
	25Y3D		r det 4	BASE	62.50	14.68	16.25	51050	2.84	4.61	5.9	4.0
	25Y3D		r det 4	BASE	63.33	14.62	16.25	50696	2.24	2.67	6.0	4.2

NODE TIME SERIES RE	PORT.									
Gin latin	27 . 3 .	<b>a</b>	m.t.	Q1	**	G	m 1	m 1	m 1	m. i . i
Simulation	Node	Group	Time	Stage	Warning	Surface	Total	Total	Total	Total
			la		Stage	Area	Inflow	Outflow	Vol In	Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
2EV2D	WEED DEED 4	DAGE	CA 17	14 60	16 05	F0C10	1 04	2 10	6.0	1 1
25Y3D	WET DET 4	BASE	64.17	14.60	16.25	50618	1.94	2.19	6.2	4.4
25Y3D 25Y3D	WET DET 4 WET DET 4	BASE BASE	65.00 65.83	14.58 14.56	16.25 16.25	50485 50372	1.37	1.73 1.59	6.3 6.4	4.5 4.6
2513D 25Y3D	WET DET 4	BASE	66.67	14.55	16.25	50269	1.28	1.57	6.5	4.7
25Y3D	WET DET 4	BASE	67.50	14.53	16.25	50165	1.27	1.57	6.6	4.8
2513D 25Y3D	WET DET 4	BASE	68.33	14.53	16.25	50041	1.27	1.55	6.7	4.9
25Y3D	WET DET 4	BASE	69.17	14.47	16.25	49833	0.88	1.53	6.7	5.1
25Y3D	WET DET 4	BASE	70.00	14.43	16.25	49578	0.85	1.61	6.8	5.2
25Y3D	WET DET 4	BASE	70.83	14.38	16.25	49284	0.85	1.69	6.8	5.3
2513D 25Y3D	WET DET 4	BASE	71.67	14.33	16.25	48964	0.85	1.72	6.9	5.4
25Y3D	WET DET 4	BASE	72.50	14.27	16.25	48579	0.34	1.59	6.9	5.5
25Y3D	WET DET 4	BASE	73.33	14.19	16.25	48098	0.10	1.41	7.0	5.6
25V3D	WET DET 4	BASE	74.17	14.10	16.25	47590	0.05	1.42	7.0	5.7
WET DETENTION 4 DECC		BASE	75.00	14.01	16.25	47055	0.03	1.46	7.0	5.8
WET DETENTION 4 RECO		BASE	75.83	13.94	16.25	46616	0.02	1.29	7.0	5.9
RUNOFF VOLUME A	11 HOUR 80.00	BASE	76.67	13.85	16.25	46096	0.01	1.37	7.0	6.0
25Y3D	WET DET 4	BASE	77.50	13.77	16.25	45570	0.01	1.29	7.0	6.1
25Y3D	WET DET 4	BASE	78.33	13.69	16.25	45098	0.01	1.08	7.0	6.2
	WET DET 4	BASE	79.17	13.63	16.25	44727	0.00	0.75	7.0	6.2
25Y3D	WET DET 4	BASE	80.00	13.59	16.25	44484	0.00	0.49	7.0	6.3
25Y3D	WET DET 4	BASE	80.83	13.56	16.25	44320	0.00	0.34	7.0	6.3
25Y3D	WET DET 4	BASE	81.67	13.54	16.25	44201	0.00	0.25	7.0	6.3
25Y3D	WET DET 4	BASE	82.50	13.52	16.25	44110	0.00	0.20	7.0	6.3
25Y3D	WET DET 4	BASE	83.33	13.51	16.25	44037	0.00	0.16	7.0	6.4
25Y3D	WET DET 4	BASE	84.17	13.50	16.25	43974	0.00	0.15	7.0	6.4
25Y3D	WET DET 4	BASE	85.00	13.49	16.25	43915	0.00	0.14	7.0	6.4
25Y3D	WET DET 4	BASE	85.83	13.48	16.25	43857	0.00	0.14	7.0	6.4
25Y3D	WET DET 4	BASE	86.67	13.47	16.25	43800	0.00	0.14	7.0	6.4
25Y3D	WET DET 4	BASE	87.50	13.46	16.25	43743	0.00	0.14	7.0	6.4
25Y3D	WET DET 4	BASE	88.33	13.45	16.25	43686	0.00	0.14	7.0	6.4
25Y3D	WET DET 4	BASE	89.17	13.45	16.25	43631	0.00	0.13	7.0	6.4
25Y3D	WET DET 4	BASE	90.00	13.44	16.25	43576	0.00	0.13	7.0	6.4
25Y3D	WET DET 4	BASE	90.83	13.43	16.25	43522	0.00	0.13	7.0	6.4
25Y3D	WET DET 4	BASE	91.67	13.42	16.25	43469	0.00	0.13	7.0	6.4
25Y3D	WET DET 4	BASE	92.50	13.41	16.25	43416	0.00	0.13	7.0	6.5
25Y3D	WET DET 4	BASE	93.33	13.40	16.25	43364	0.00	0.12	7.0	6.5
25Y3D	WET DET 4	BASE	94.17	13.39	16.25	43313	0.00	0.12	7.0	6.5
25Y3D	WET DET 4	BASE	95.00	13.38	16.25	43262	0.00	0.12	7.0	6.5
25Y3D	WET DET 4	BASE	95.83	13.38	16.25	43212	0.00	0.12	7.0	6.5
25Y3D	WET DET 4	BASE	96.67	13.37	16.25	43163	0.00	0.12	7.0	6.5
25Y3D	WET DET 4	BASE	97.50	13.36	16.25	43115	0.00	0.11	7.0	6.5
25Y3D	WET DET 4	BASE	98.33	13.35	16.25	43067	0.00	0.11	7.0	6.5
25Y3D	WET DET 4	BASE	99.17	13.34	16.25	43021	0.00	0.11	7.0	6.5
25Y3D	WET DET 4	BASE	100.00	13.34	16.25	42974	0.00	0.11	7.0	6.5
25Y3D	WET DET 4	BASE	100.83	13.33	16.25	42929	0.00	0.11	7.0	6.5
25Y3D	WET DET 4	BASE	101.83	13.32	16.25	42876	0.00	0.10	7.0	6.5
WET DETENTION 4 DEGG	V/EDQ 1141 E QE	BASE	102.83	13.31	16.25	42824	0.00	0.10	7.0	6.6
WET DETENTION 4 RECO		BASE	103.83	13.30	16.25	42773	0.00	0.10	7.0	6.6
TREATMENT VOLUME A	AT HOUR 110.83	BASE	104.83	13.29	16.25	42723	0.00	0.10	7.0	6.6
0.000		BASE	105.83	13.29	16.25	42675	0.00	0.09	7.0	6.6
25Y3D	WET DET 4	BASE	106.83	13.28	16.25	42629	0.00	0.09	7.0	6.6
25Y3D	WET DET 4	BASE	107.83	13.27	16.25	42585	0.00	0.08	7.0	6.6
25Y3D	WET DET 4	BASE	108.83	13.26	16.25	42543	0.00	0.08	7.0	6.6
25Y3D 25Y3D	WET DET 4 WET DET 4	BASE BASE	109.83 110.83	13.26 13.25	16.25 16.25	42502 42463	0.00	0.08	7.0 7.0	6.6 6.6
25Y3D 25Y3D	WET DET 4 WET DET 4	BASE BASE	111.83 112.83	13.25 13.24	16.25 16.25	42425 42388	0.00 0.00	0.07 0.07	7.0 7.0	6.6 6.6
25Y3D 25Y3D	WET DET 4	BASE	112.83	13.24	16.25	42352	0.00	0.07	7.0	6.6
25Y3D	WET DET 4	BASE	114.83	13.23	16.25	42316	0.00	0.07	7.0	6.6
25Y3D	WET DET 4	BASE	115.83	13.22	16.25	42282	0.00	0.07	7.0	6.6
25Y3D	WET DET 4	BASE	116.83	13.22	16.25	42249	0.00	0.06	7.0	6.6
25Y3D	WET DET 4	BASE	117.83	13.21	16.25	42217	0.00	0.06	7.0	6.6
25Y3D	WET DET 4	BASE	118.83	13.21	16.25	42187	0.00	0.06	7.0	6.7
25Y3D	WET DET 4	BASE	119.83	13.20	16.25	42157	0.00	0.06	7.0	6.7
25Y3D	WET DET 4	BASE	120.83	13.20	16.25	42128	0.00	0.05	7.0	6.7
25Y3D	WET DET 4	BASE	121.83	13.19	16.25	42101	0.00	0.05	7.0	6.7
25Y3D	WET DET 4	BASE	122.83	13.19	16.25	42074	0.00	0.05	7.0	6.7
25Y3D	WET DET 4	BASE	123.83	13.18	16.25	42049	0.00	0.05	7.0	6.7
25Y3D	WET DET 4	BASE	124.83	13.18	16.25	42024	0.00	0.05	7.0	6.7
25Y3D	WET DET 4	BASE	125.83	13.17	16.25	42000	0.00	0.05	7.0	6.7
25Y3D	WET DET 4	BASE	126.83	13.17	16.25	41977	0.00	0.04	7.0	6.7
25Y3D	WET DET 4	BASE	127.83	13.17	16.25	41955	0.00	0.04	7.0	6.7
25Y3D	WET DET 4	BASE	128.83	13.16	16.25	41934	0.00	0.04	7.0	6.7
25Y3D	WET DET 4	BASE	129.83	13.16	16.25	41913	0.00	0.04	7.0	6.7
25Y3D	WET DET 4	BASE	130.83	13.16	16.25	41893	0.00	0.04	7.0	6.7
25Y3D	WET DET 4	BASE	131.83	13.15	16.25	41874	0.00	0.04	7.0	6.7
25Y3D	WET DET 4	BASE	132.83	13.15	16.25	41855	0.00	0.04	7.0	6.7
25Y3D	WET DET 4	BASE	133.83	13.15	16.25	41838	0.00	0.03	7.0	6.7
25Y3D	WET DET 4	BASE	134.83	13.14	16.25	41820	0.00	0.03	7.0	6.7
25Y3D	WET DET 4	BASE	135.83	13.14	16.25	41804	0.00	0.03	7.0	6.7
25Y3D	WET DET 4	BASE	136.83	13.14	16.25	41788	0.00	0.03	7.0	6.7
25Y3D	WET DET 4	BASE	137.83	13.14	16.25	41772	0.00	0.03	7.0	6.7
25Y3D	WET DET 4	BASE	138.83	13.13	16.25	41757	0.00	0.03	7.0	6.7
25Y3D	WET DET 4	BASE	139.83	13.13	16.25	41742	0.00	0.03	7.0	6.7
25Y3D	WET DET 4	BASE	140.83	13.13	16.25	41728	0.00	0.03	7.0	6.7
25Y3D	WET DET 4	BASE	141.83	13.13	16.25	41715	0.00	0.03	7.0	6.7

NODE	TIME SERIES	REPORT										
	Cimulation		Mode	Croun	Time	Stage	Warning	Currence	Total	Totol	Total	Total
	Simulation		Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Vol In	Total Vol Out
					hrs	ft	ft	ft2	cfs	cfs	af	af
										CIB		ur_
	25Y3D	WET	DET 4	BASE	142.83	13.13	16.25	41701	0.00	0.03	7.0	6.7
	25Y3D		DET 4	BASE	143.83	13.12	16.25	41689	0.00	0.02	7.0	6.7
	25Y3D	WET	DET 4	BASE	144.83	13.12	16.25	41676	0.00	0.02	7.0	6.7
	25Y3D	WET	DET 4	BASE	145.83	13.12	16.25	41664	0.00	0.02	7.0	6.7
	25Y3D	WET	DET 4	BASE	146.83	13.12	16.25	41652	0.00	0.02	7.0	6.7
	25Y3D	WET	DET 4	BASE	147.83	13.12	16.25	41641	0.00	0.02	7.0	6.7
	25Y3D	WET	DET 4	BASE	148.83	13.11	16.25	41630	0.00	0.02	7.0	6.7
	25Y3D		DET 4	BASE	149.83	13.11	16.25	41619	0.00	0.02	7.0	6.7
	25Y3D	WET	DET 4	BASE	150.83	13.11	16.25	41609	0.00	0.02	7.0	6.7
	25Y3D		DET 4	BASE	151.83	13.11	16.25	41599	0.00	0.02	7.0	6.7
	25Y3D	WET	DET 4	BASE	152.83	13.11	16.25	41589	0.00	0.02	7.0	6.7
	25Y3D		DET 4	BASE	153.83	13.10	16.25	41580	0.00	0.02	7.0	6.8
	25Y3D		DET 4	BASE	154.83	13.10	16.25	41570	0.00	0.02	7.0	6.8
	25Y3D		DET 4	BASE	155.83	13.10	16.25	41561	0.00	0.02	7.0	6.8
	25Y3D		DET 4	BASE	156.83	13.10	16.25	41553	0.00	0.02	7.0	6.8
	25Y3D		DET 4	BASE	157.83	13.10	16.25	41544	0.00	0.02	7.0	6.8
	25Y3D		DET 4	BASE	158.83	13.10	16.25	41536	0.00	0.02	7.0	6.8
	25Y3D		DET 4	BASE	159.83	13.10	16.25	41528	0.00	0.02	7.0	6.8
	25Y3D		DET 4	BASE	160.83	13.10	16.25	41520	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	161.83	13.09	16.25	41512	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	162.83	13.09	16.25	41505	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	163.83	13.09	16.25	41497	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	164.83	13.09	16.25	41490	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	165.83	13.09	16.25	41483	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	166.83	13.09	16.25	41476	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	167.83	13.09	16.25	41470	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	168.83	13.09	16.25	41463	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	169.83	13.08	16.25	41457	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	170.83	13.08	16.25	41451	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	171.83	13.08	16.25	41445	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	172.83	13.08	16.25	41439	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	173.83	13.08	16.25	41433	0.00	0.01	7.0	6.8
	25Y3D 25Y3D		DET 4	BASE	174.83	13.08	16.25	41428	0.00	0.01	7.0	6.8
			DET 4	BASE	175.83	13.08	16.25	41422	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	176.83	13.08	16.25	41417	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	177.83	13.08	16.25	41411	0.00	0.01	7.0	6.8
	25Y3D 25Y3D		DET 4	BASE	178.83 179.83	13.08	16.25 16.25	41406 41401	0.00	0.01	7.0 7.0	6.8 6.8
	25Y3D		DET 4	BASE BASE		13.08 13.07	16.25	41396	0.00	0.01 0.01	7.0	6.8
	25Y3D		DET 4	BASE	180.83 181.83	13.07	16.25	41391	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	182.83	13.07	16.25	41387	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	183.83	13.07	16.25	41382	0.00	0.01	7.0	6.8
	2513D 25Y3D		DET 4	BASE	184.83	13.07	16.25	41378	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	185.83	13.07	16.25	41373	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	186.83	13.07	16.25	41369	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	187.83	13.07	16.25	41365	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	188.83	13.07	16.25	41360	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	189.83	13.07	16.25	41356	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	190.83	13.07	16.25	41352	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	191.83	13.07	16.25	41348	0.00	0.01	7.0	6.8
	25Y3D	WET	DET 4	BASE	192.83	13.07	16.25	41344	0.00	0.01	7.0	6.8
	25Y3D	WET	DET 4	BASE	193.83	13.07	16.25	41341	0.00	0.01	7.0	6.8
	25Y3D	WET	DET 4	BASE	194.83	13.06	16.25	41337	0.00	0.01	7.0	6.8
	25Y3D	WET	DET 4	BASE	195.83	13.06	16.25	41333	0.00	0.01	7.0	6.8
	25Y3D	WET	DET 4	BASE	196.83	13.06	16.25	41330	0.00	0.01	7.0	6.8
	25Y3D	WET	DET 4	BASE	197.83	13.06	16.25	41326	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	198.83	13.06	16.25	41323	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	199.83	13.06	16.25	41319	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	200.83	13.06	16.25	41316	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	201.83	13.06	16.25	41313	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	202.83	13.06	16.25	41309	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	203.83	13.06	16.25	41306	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	204.83	13.06	16.25	41303	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	205.83	13.06	16.25	41300	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	206.83	13.06	16.25	41297	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	207.83	13.06	16.25	41294	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	208.83	13.06	16.25	41291	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	209.83	13.06	16.25	41288	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	210.83	13.06	16.25	41285	0.00	0.01	7.0	6.8
	25Y3D		DET 4	BASE	211.83	13.06	16.25	41283	0.00	0.01	7.0	6.8
	25Y3D 25Y3D		DET 4	BASE	212.83	13.06 13.05	16.25 16.25	41280 41277	0.00	0.01 0.01	7.0 7.0	6.8 6.8
	25Y3D 25Y3D		DET 4	BASE BASE	213.83 214.83	13.05	16.25	41277	0.00	0.01	7.0	6.8
	25Y3D 25Y3D		DET 4	BASE	214.83	13.05	16.25	41275	0.00	0.00	7.0	6.8
	25Y3D 25Y3D		DET 4	BASE	215.83	13.05	16.25	41272	0.00	0.00	7.0	6.8
			DET 4			13.05	16.25	41270	0.00	0.00	7.0	
	25Y3D		DET 4	BASE	217.83	13.05	16.25	41267	0.00	0.00	7.0	6.8
	25Y3D		DET 4	BASE BASE	218.83 219.83	13.05	16.25	41265	0.00	0.00	7.0	6.8 6.8
			DET 4	BASE	219.83		16.25		0.00	0.00	7.0	6.8
	25Y3D			BASE		13.05	16.25	41260 41257	0.00	0.00	7.0	
	25Y3D								0.00	0.00		
	25Y3D 25Y3D	WET	DET 4	BASE	221.83	13.05						6.8
	25Y3D 25Y3D 25Y3D	WET WET	DET 4	BASE BASE	222.83	13.05	16.25	41255	0.00	0.00	7.0	6.8
	25Y3D 25Y3D 25Y3D 25Y3D	TEW TEW TEW	DET 4 DET 4 DET 4	BASE BASE BASE	222.83 223.83	13.05 13.05	16.25 16.25	41255 41253	0.00	0.00	7.0 7.0	6.8 6.8
	25Y3D 25Y3D 25Y3D 25Y3D 25Y3D 25Y3D	TEW EEW EEW EEW	DET 4 DET 4 DET 4 DET 4 DET 4	BASE BASE BASE BASE	222.83 223.83 224.83	13.05 13.05 13.05	16.25 16.25 16.25	41255 41253 41250	0.00 0.00 0.00	0.00 0.00 0.00	7.0 7.0 7.0	6.8 6.8
	25Y3D 25Y3D 25Y3D 25Y3D 25Y3D 25Y3D 25Y3D	TEW ETWET WET WET	DET 4 DET 4 DET 4 DET 4 DET 4 DET 4	BASE BASE BASE BASE BASE	222.83 223.83 224.83 225.83	13.05 13.05 13.05 13.05	16.25 16.25 16.25 16.25	41255 41253 41250 41248	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	7.0 7.0 7.0 7.0	6.8 6.8 6.8
	25Y3D 25Y3D 25Y3D 25Y3D 25Y3D 25Y3D	TEW ETWET WET WET WET	DET 4 DET 4 DET 4 DET 4 DET 4	BASE BASE BASE BASE	222.83 223.83 224.83	13.05 13.05 13.05	16.25 16.25 16.25	41255 41253 41250	0.00 0.00 0.00	0.00 0.00 0.00	7.0 7.0 7.0	6.8 6.8

NODE 1	TIME SERIES	REPORT										
	Simulation		Node	Group	Time	Stage	Warning	Surface	Total	Total	Total	Total
	SIMUIACION		Node	Group	111111111111111111111111111111111111111	Stage	Warning Stage	Area	Inflow	Outflow	Vol In	Vol Out
					hrs	ft	ft	ft2	cfs	cfs	af	af
	25Y3D		r det 4	BASE	228.83	13.05	16.25	41242	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	229.83	13.05	16.25	41240	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	230.83	13.05	16.25	41238	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	231.83	13.05	16.25	41236	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	232.83	13.05	16.25	41234	0.00	0.00	7.0	6.8
	25Y3D		r Det 4	BASE	233.83	13.05	16.25	41232	0.00	0.00	7.0	6.8
	25Y3D 25Y3D		r det 4 r det 4	BASE BASE	234.83 235.83	13.05 13.05	16.25 16.25	41230 41228	0.00	0.00	7.0 7.0	6.8 6.8
	25Y3D		r DET 4	BASE	236.83	13.05	16.25	41226	0.00	0.00	7.0	6.8
	25Y3D		r DET 4	BASE	237.83	13.05	16.25	41224	0.00	0.00	7.0	6.8
	25Y3D		r DET 4	BASE	238.83	13.05	16.25	41222	0.00	0.00	7.0	6.8
	25Y3D		r DET 4	BASE	239.83	13.05	16.25	41220	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	240.83	13.05	16.25	41218	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	241.83	13.04	16.25	41217	0.00	0.00	7.0	6.8
	25Y3D	WE	T DET 4	BASE	242.83	13.04	16.25	41215	0.00	0.00	7.0	6.8
	25Y3D	WE	r det 4	BASE	243.83	13.04	16.25	41213	0.00	0.00	7.0	6.8
	25Y3D	WE	r det 4	BASE	244.83	13.04	16.25	41212	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	245.83	13.04	16.25	41210	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	246.83	13.04	16.25	41208	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	247.83	13.04	16.25	41207	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	248.83	13.04	16.25	41205	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	249.83	13.04	16.25	41203	0.00	0.00	7.0	6.8
	25Y3D 25Y3D		r det 4 r det 4	BASE	250.83	13.04 13.04	16.25 16.25	41202 41200	0.00	0.00	7.0 7.0	6.8 6.8
	25Y3D		r Der 4	BASE BASE	251.83 252.83	13.04	16.25	41199		0.00	7.0	6.8
	25Y3D		r DET 4	BASE	253.83	13.04	16.25	41199	0.00	0.00	7.0	6.8
	25Y3D		r DET 4	BASE	254.83	13.04	16.25	41196	0.00	0.00	7.0	6.8
	25Y3D		r DET 4	BASE	255.83	13.04	16.25	41194	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	256.83	13.04	16.25	41193	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	257.83	13.04	16.25	41191	0.00	0.00	7.0	6.8
	25Y3D	WE	T DET 4	BASE	258.83	13.04	16.25	41190	0.00	0.00	7.0	6.8
	25Y3D	WE	r det 4	BASE	259.83	13.04	16.25	41188	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	260.83	13.04	16.25	41187	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	261.83	13.04	16.25	41186	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	262.83	13.04	16.25	41184	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	263.83	13.04	16.25	41183	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	264.83	13.04	16.25	41182	0.00	0.00	7.0	6.8
	25Y3D 25Y3D		r det 4 r det 4	BASE BASE	265.83	13.04 13.04	16.25 16.25	41180 41179	0.00	0.00	7.0 7.0	6.8 6.8
	25Y3D		r DET 4	BASE	266.83 267.83	13.04	16.25	41178	0.00	0.00	7.0	6.8
	25Y3D		r DET 4	BASE	268.83	13.04	16.25	41176	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	269.83	13.04	16.25	41175	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	270.83	13.04	16.25	41174	0.00	0.00	7.0	6.8
	25Y3D		T DET 4	BASE	271.83	13.04	16.25	41173	0.00	0.00	7.0	6.8
	25Y3D	WE	r det 4	BASE	272.83	13.04	16.25	41172	0.00	0.00	7.0	6.8
	25Y3D	WE	r det 4	BASE	273.83	13.04	16.25	41170	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	274.83	13.04	16.25	41169	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	275.83	13.04	16.25	41168	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	276.83	13.04	16.25	41167	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	277.83	13.04	16.25	41166	0.00	0.00	7.0	6.8
	25Y3D 25Y3D		F DET 4 F DET 4	BASE BASE	278.83 279.83	13.04 13.04	16.25 16.25	41165 41163	0.00	0.00	7.0 7.0	6.8 6.8
	25Y3D		r DET 4	BASE	280.83	13.04	16.25	41162	0.00	0.00	7.0	6.8
	25Y3D		r DET 4	BASE	281.83	13.04	16.25	41161	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	282.83	13.04	16.25	41160	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	283.83	13.04	16.25	41159	0.00	0.00	7.0	6.8
	25Y3D	WE	T DET 4	BASE	284.83	13.04	16.25	41158	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	285.83	13.03	16.25	41157	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	286.83	13.03	16.25	41156	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	287.83	13.03	16.25	41155	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	288.83	13.03	16.25	41154	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	289.83	13.03	16.25	41153	0.00	0.00	7.0	6.8
	25Y3D 25Y3D		r DET 4 r DET 4	BASE BASE	290.83 291.83	13.03 13.03	16.25 16.25	41152 41151	0.00	0.00	7.0 7.0	6.8 6.8
	25Y3D 25Y3D		r DET 4	BASE	291.83	13.03	16.25	41151	0.00	0.00	7.0	6.8
	25Y3D		r DET 4	BASE	293.83	13.03	16.25	41149	0.00	0.00	7.0	6.8
	25Y3D		r DET 4	BASE	294.83	13.03	16.25	41148	0.00	0.00	7.0	6.8
	25Y3D		r DET 4	BASE	295.83	13.03	16.25	41147	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	296.83	13.03	16.25	41146	0.00	0.00	7.0	6.8
	25Y3D	WE	r det 4	BASE	297.83	13.03	16.25	41145	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	298.83	13.03	16.25	41144	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	299.83	13.03	16.25	41143	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	300.83	13.03	16.25	41142	0.00	0.00	7.0	6.8
	25Y3D		r det 4	BASE	301.83	13.03	16.25	41142	0.00	0.00	7.0	6.8
	25Y3D		r Det 4	BASE	302.83	13.03	16.25	41141	0.00	0.00	7.0	6.8
	25Y3D 25Y3D		r DET 4 r DET 4	BASE BASE	303.83 304.83	13.03 13.03	16.25 16.25	41140 41139	0.00	0.00	7.0 7.0	6.8 6.8
	25Y3D 25Y3D		r DET 4	BASE	304.83	13.03	16.25	41139	0.00	0.00	7.0	6.8
	25Y3D		r DET 4	BASE	306.83	13.03	16.25	41138	0.00	0.00	7.0	6.8
	25Y3D		r DET 4	BASE	307.83	13.03	16.25	41136	0.00	0.00	7.0	6.8
	25Y3D		r DET 4	BASE	308.83	13.03	16.25	41136	0.00	0.00	7.0	6.8
	25Y3D		r DET 4	BASE	309.83	13.03	16.25	41135	0.00	0.00	7.0	6.8
	25Y3D		r DET 4	BASE	310.83	13.03	16.25	41134	0.00	0.00	7.0	6.8
	25Y3D		r DET 4	BASE	311.83	13.03	16.25	41133	0.00	0.00	7.0	6.8
	25Y3D	WE	r det 4	BASE	312.83	13.03	16.25	41132	0.00	0.00	7.0	6.8
	25Y3D	WE:	r det 4	BASE	313.83	13.03	16.25	41131	0.00	0.00	7.0	6.8

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
25Y3D	WET DET 4	BASE	314.83	13.03	16.25	41131	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	315.83	13.03	16.25	41130	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	316.83	13.03	16.25	41129	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	317.83	13.03	16.25	41128	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	318.83	13.03	16.25	41128	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	319.83	13.03	16.25	41127	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	320.83	13.03	16.25	41126	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	321.83	13.03	16.25	41125	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	322.83	13.03	16.25	41125	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	323.83	13.03	16.25	41124	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	324.83	13.03	16.25	41123	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	325.83	13.03	16.25	41122	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	326.83	13.03	16.25	41122	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	327.83	13.03	16.25	41121	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	328.83	13.03	16.25	41120	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	329.83	13.03	16.25	41120	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	330.83	13.03	16.25	41119	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	331.83	13.03	16.25	41118	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	332.83	13.03	16.25	41118	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	333.83	13.03	16.25	41117	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	334.83	13.03	16.25	41117	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	335.83	13.03	16.25	41116	0.00	0.00	7.0	6.8
								0.00		6.8
25Y3D 25Y3D	WET DET 4	BASE	336.83 337.83	13.03 13.03	16.25 16.25	41115 41114	0.00	0.00	7.0 7.0	6.8
	WET DET 4	BASE								6.8
25Y3D	WET DET 4	BASE	338.83	13.03	16.25	41114	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	339.83	13.03	16.25	41113	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	340.83	13.03	16.25	41112	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	341.83	13.03	16.25	41112	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	342.83	13.03	16.25	41111	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	343.83	13.03	16.25	41111	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	344.83	13.03	16.25	41110	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	345.83	13.03	16.25	41109	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	346.83	13.03	16.25	41109	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	347.83	13.03	16.25	41108	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	348.83	13.03	16.25	41108	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	349.83	13.03	16.25	41107	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	350.83	13.03	16.25	41106	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	351.83	13.03	16.25	41106	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	352.83	13.03	16.25	41105	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	353.83	13.03	16.25	41105	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	354.83	13.03	16.25	41104	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	355.83	13.03	16.25	41104	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	356.83	13.03	16.25	41103	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	357.83	13.03	16.25	41102	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	358.83	13.03	16.25	41102	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	359.83	13.03	16.25	41101	0.00	0.00	7.0	6.8
25Y3D	WET DET 4	BASE	360.00	13.03	16.25	41101	0.00	0.00	7.0	6.8

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs		Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
CS-100	BASE	100Y3D	60.06	6.22	-0.026	60.06	17.06	62.63	16.15
CS-200	BASE	100Y3D	60.07	13.18	0.065	60.19	16.94	60.77	15.47
CS-300	BASE	100Y3D	60.16	4.56	0.014	60.24	16.20	60.77	15.47
CS-400A	BASE	100Y3D	60.48	15.73	0.641	60.77	15.47	62.12	14.87
CS-400B	BASE	100Y3D	60.76	0.36	0.000	60.77	15.47	64.37	13.17
CS-WET 1	BASE	100Y3D	60.02	4.88	0.015	62.63	16.15	62.12	14.87
CS-WET 2	BASE	100Y3D	64.42	8.10	-0.053	64.41	14.80	64.37	13.17
OUTFALL PIPE	BASE	100Y3D	64.37	8.41	-0.701	64.37	13.17	64.37	12.23
STM-404 OUTFALL	BASE	100Y3D	60.47	20.20	-12.646	62.12	14.87	64.41	14.80
CS-100	BASE	10Y1D	12.14	3.58	-0.013	12.14	16.98	16.32	15.58
CS-200	BASE	10Y1D	12.16	9.88	-0.036	12.16	16.32	12.83	14.58
CS-300	BASE	10Y1D	12.44	2.20	0.008	12.44	15.70	12.83	14.58
CS-400A	BASE	10Y1D	12.97	8.83	0.645	12.83	14.58	14.32	13.97
CS-400B	BASE	10Y1D	12.83	0.28	0.000	12.83	14.58	14.67	12.92
CS-WET 1	BASE	10Y1D	16.32	1.59	0.002	16.32	15.58	14.32	13.97
CS-WET 2	BASE	10Y1D	14.80	6.35	0.014	14.78	13.93	14.67	12.92
OUTFALL PIPE	BASE	10Y1D	14.67	6.60	-0.701	14.67	12.92	14.67	12.11
STM-404 OUTFALL	BASE	10Y1D	12.97	9.22	-12.646	14.32	13.97	14.78	13.93
CS-100	BASE	25Y3D	60.07	4.94	0.020	60.07	17.03	62.36	15.92
CS-200	BASE	25Y3D	60.09	12.15	-0.053	60.14	16.58	60.66	15.10
CS-300	BASE	25Y3D	60.20	3.73	0.011	60.22	16.00	60.66	15.10
CS-400A	BASE	25Y3D	60.66	13.77	-0.641	60.66	15.10	62.38	14.58
CS-400B	BASE	25Y3D	60.66	0.33	0.000	60.66	15.10	64.20	13.09
CS-WET 1	BASE	25Y3D	60.34	4.67	0.023	62.36	15.92	62.38	14.58
CS-WET 2	BASE	25Y3D	64.22	7.58	-0.054	64.22	14.53	64.20	13.09
OUTFALL PIPE	BASE	25Y3D	64.20	7.86	-0.701	64.20	13.09	64.20	12.20
STM-404 OUTFALL	BASE	25Y3D	60.64	18.32	-12.646	62.38	14.58	64.22	14.53
CS-100	BASE	3Y1D	12.29	2.08	0.006	12.29	16.93	24.10	15.46
CS-200	BASE	3Y1D	12.17	6.99	-0.014	12.17	16.18	12.95	14.16
CS-300	BASE	3Y1D	12.59	1.13	0.003	12.59	15.45	12.95	14.16
CS-400A	BASE	3Y1D	12.88	4.83	0.012	12.95	14.16	14.27	13.61
CS-400B	BASE	3Y1D	12.95	0.24	0.000	12.95	14.16	14.10	12.77
CS-WET 1	BASE	311D 3Y1D	24.10	0.47	0.000	24.10	15.46	14.27	13.61
CS-WET 2	BASE	311D 3Y1D	14.17	5.33	0.000	14.16	13.60	14.10	12.77
OUTFALL PIPE	BASE	311D 3Y1D	14.10	5.56	-0.701	14.10	12.77	14.10	12.03
STM-404 OUTFALL	BASE	3Y1D	12.92	5.10	-12.646	14.27	13.61	14.16	13.60

### TR-55 Volume Calculations - Proposed

Treasure Coast Classical Academy

Job No. 046403000

Designed by: BAY Checked by: JLH

Date: 12/5/2018

### Volume Required

	3 year /24 hours	10 year /24 hours	25 year /72 hours	100 year /72 hours
Potential Maximum Retention (S) (in)	1.11	1.11	1.11	1.11
Rainfall (P) (in)	5.25	7.00	12.00	15.00
Total Project Drainage Area (A) (ac)	8.98	8.98	8.98	8.98
Runoff (Q) (in)	4.119	5.824	10.764	13.746
Volume of Runoff (V <sub>r</sub> ) (ac-ft)	3.082	4.358	8.055	10.286

### Equations Used (from Technical Release 55)

S = (1000/CN)-10

$$Q = (P_{25} - 0.2S)^2 / (P_{25} + 0.8S)$$

$$V_r (ac-ft) = (Q)(A)/12$$

### Stage - Storage Information

Land Use	Storage Type	Area	Elevation Range			
Land Use	Type	(AC)	Avg Low	Avg High		
Impervious	L	3.120	16.25	18.25		
Pervious	L	3.510	16.75	18.00		

Cumulative Volume	(ac-ft)
Dry Retention 1A & 1B	0.27
Dry Retention 2	
Dry Retention 3	
Wet Detention 4	3.78
Total	4.87

TOTAL

Stage	Impervious	Pervious	SWMS	CUM, AC-FT
13.00	0.000	0.000	0.000	0.000
14.00	0.000	0.000	1.010	1.010
15.00	0.000	0.000	2.300	2.300
16.00	0.000	0.000	3.970	3.970
17.00	0.439	0.088	4.810	5.337
18.00	2.389	2.194	4.870	9.453
18.13	2.761	2.655	4.870	10.286
18.25	3 120	3 071	4 870	11.061

100yr-72hour Zero Discharge Stage /Min FFE FFE

### **APPENDIX 4**

# TREATMENT VOLUME RECOVERY ANALYSIS (PONDS v3.3)

Input Report
Treatment

### **Project Data**

Project Name: Dry Retention 1A & 1B

Simulation Description: Treatment Recovery Analysis

Project Number: 046403000

Engineer: Jordan L. Haggerty

Supervising Engineer: Bradley A. Younts

Date: 11-29-2018

### **Aquifer Data**

Base Of Aquifer Elevation, [B] (ft datum): 10.00

Water Table Elevation, [WT] (ft datum): 15.00

Horizontal Saturated Hydraulic Conductivity, [Kh] (ft/day): 16.00

Fillable Porosity, [n] (%):

Vertical infiltration was not considered.

### **Geometry Data**

Equivalent Pond Length, [L] (ft): 432.0

Equivalent Pond Width, [W] (ft): 20.0

Ground water mound is expected to intersect the pond bottom

### Stage vs Area Data

Stage	Area
(ft datum)	(ft²)
16.00	7314.0
17.25	11790.0

Dry Retention 1A & 1B 12-05-2018 10:01:21 Page 1

Summary of Results :: Scenario 1 :: 6997 ft³ slug load

	Time (hours)	Stage (ft datum)	Rate (ft³/s)	Volume (ft³)
Stage Minimum Maximum	288.000 0.002	15.31 16.80		
Inflow Rate - Maximum - Positive Rate - Maximum - Negative Cumulative Volume - Maximum Positive Cumulative Volume - Maximum Negative Cumulative Volume - End of Simulation	0.002 None 0.002 None 288.000		1166.1670 None	6997.0 None 6997.0
Infiltration Rate - Maximum - Positive Rate - Maximum - Negative Cumulative Volume - Maximum Positive Cumulative Volume - Maximum Negative Cumulative Volume - End of Simulation	0.002 None 48.000 None 288.000		1.4868 None	6997.0 None 6997.0
Combined Discharge Rate - Maximum - Positive Rate - Maximum - Negative Cumulative Volume - Maximum Positive Cumulative Volume - Maximum Negative Cumulative Volume - End of Simulation	None None None None 288.000		None None	None None 0.0
Discharge Structure 1 - inactive Rate - Maximum - Positive Rate - Maximum - Negative Cumulative Volume - Maximum Positive Cumulative Volume - Maximum Negative Cumulative Volume - End of Simulation	disabled disabled disabled disabled disabled		disabled disabled	disabled disabled disabled
Discharge Structure 2 - inactive Rate - Maximum - Positive Rate - Maximum - Negative Cumulative Volume - Maximum Positive Cumulative Volume - Maximum Negative Cumulative Volume - End of Simulation	disabled disabled disabled disabled disabled		disabled disabled	disabled disabled disabled
Discharge Structure 3 - inactive Rate - Maximum - Positive Rate - Maximum - Negative Cumulative Volume - Maximum Positive Cumulative Volume - Maximum Negative Cumulative Volume - End of Simulation	disabled disabled disabled disabled disabled		disabled disabled	disabled disabled disabled
Pollution Abatement: 36 Hour Stage and Infiltration Volume 72 Hour Stage and Infiltration Volume	36.000 72.000	16.07 15.73		6473.8 6997.0

Dry Retention 1A & 1B 12-05-2018 10:01:22 Page 3

DRY RETENTION 1A & 1B RECOVERS HALF OF TREATMENT VOLUME AT HOUR 9.06 AFTER ATTENTUATION VOLUME RECOVERY AT HOUR 73.33. TOTAL TIME = 82.39 HOURS

## PONDS Version 3.3.0278 Retention Pond Recovery - Refined Method Copyright 2012 Devo Seereeram, Ph.D., P.E.

<u>Detailed Results</u> :: Scenario 1 :: 6997 ft<sup>3</sup> slug load

Elapsed Time (hours)	Instantaneous Inflow Rate (ft³/s)	Outside Recharge (ft/day)	Stage Elevation (ft datum)	Infiltration Rate (ft³/s)	Combined Instantaneous Discharge Rate (ft³/s)	Cumulative Inflow Volume (ft³)	Cumulative Infiltration Volume (ft³)	Combined Cumulative Discharge (ft³)	Flow Type
0.000	1166.1670	0.00000	16.00000	1.48852	0	0.000	0.0	0	N.A.
0.002	1166.1670	0.00000	16.79912	1.48677	0	6997.000	8.9	0	S
2.400	0.0000	0.00000	16.59469	0.17620	0	6997.000	2014.2	0	S
6.000	0.0000	0.00000	16.46518	0.07698	0	6997.000	3207.3	0	S
12.000	0.0000	0.00000	16.33719	0.04446	0	6997.000	4327.3	0	S
24.000	0.0000	0.00000	16.18163	0.02484	0	6997.000	5609.5	0	S
36.000	0.0000	0.00000	16.07032	0.01606	0	6997.000	6473.8	0	S
48.000	0.0000	0.00000	15.96608	0.00606	0	6997.000	6997.0	0	S
60.000	0.0000	0.00000	15.82148	0.00000	0	6997.000	6997.0	0	S
72.000	0.0000	0.00000	15.72757	0.00000	0	6997.000	6997.0	0	S
84.000	0.0000	0.00000	15.65896	0.00000	0	6997.000	6997.0	0	S
96.000	0.0000	0.00000	15.60568	0.00000	0	6997.000	6997.0	0	S
120.000	0.0000	0.00000	15.53141	0.00000	0	6997.000	6997.0	0	S
144.000	0.0000	0.00000	15.47627	0.00000	0	6997.000	6997.0	0	S
168.000	0.0000	0.00000	15.43345	0.00000	0	6997.000	6997.0	0	S
192.000	0.0000	0.00000	15.39900	0.00000	0	6997.000	6997.0	0	S
216.000	0.0000	0.00000	15.37063	0.00000	0	6997.000	6997.0	0	S
240.000	0.0000	0.00000	15.34677	0.00000	0	6997.000	6997.0	0	S
264.000	0.0000	0.00000	15.32638	0.00000	0	6997.000	6997.0	0	S
288.000	0.0000	0.00000	15.30868			6997.000	6997.0	0	N.A.

FULL RUNOFF VOLUME RECOVERY AT HOUR 44.10 AFTER ATTENUATION VOLUME RECOVERY AT HOUR 73.33. TOTAL TIME = 117.43 HOURS

Dry Retention 1A & 1B 12-05-2018 10:01:22 Page 2

### **Project Data**

Project Name: Dry Retention 2

Simulation Description: Treatment Recovery Analysis

Project Number: 046403000

Engineer: Jordan L. Haggerty

Supervising Engineer: Bradley A. Younts

Date: 07-31-2018

### **Aquifer Data**

Base Of Aquifer Elevation, [B] (ft datum): 9.00

Water Table Elevation, [WT] (ft datum): 14.00

Horizontal Saturated Hydraulic Conductivity, [Kh] (ft/day): 16.00

Fillable Porosity, [n] (%):

Vertical infiltration was not considered.

### **Geometry Data**

Equivalent Pond Length, [L] (ft): 163.0

Equivalent Pond Width, [W] (ft): 52.0

Ground water mound is expected to intersect the pond bottom

### Stage vs Area Data

Stage	Area
(ft datum)	(ft²)
15.00	8073.0
17.00	11611.0

Summary of Results :: Scenario 1 :: 5162 ft³ slug load

	Time (hours)	Stage (ft datum)	Rate (ft³/s)	Volume (ft³)
Stage Minimum Maximum	288.000 0.002	14.41 15.60		
Inflow Rate - Maximum - Positive Rate - Maximum - Negative Cumulative Volume - Maximum Positive Cumulative Volume - Maximum Negative Cumulative Volume - End of Simulation	0.002 None 0.002 None 288.000		860.3333 None	5162.0 None 5162.0
Infiltration Rate - Maximum - Positive Rate - Maximum - Negative Cumulative Volume - Maximum Positive Cumulative Volume - Maximum Negative Cumulative Volume - End of Simulation	0.002 None 96.000 None 288.000		0.6296 None	5162.0 None 5162.0
Combined Discharge Rate - Maximum - Positive Rate - Maximum - Negative Cumulative Volume - Maximum Positive Cumulative Volume - Maximum Negative Cumulative Volume - End of Simulation	None None None None 288.000		None None	None None 0.0
Discharge Structure 1 - inactive Rate - Maximum - Positive Rate - Maximum - Negative Cumulative Volume - Maximum Positive Cumulative Volume - Maximum Negative Cumulative Volume - End of Simulation	disabled disabled disabled disabled disabled		disabled disabled	disabled disabled disabled
Discharge Structure 2 - inactive Rate - Maximum - Positive Rate - Maximum - Negative Cumulative Volume - Maximum Positive Cumulative Volume - Maximum Negative Cumulative Volume - End of Simulation	disabled disabled disabled disabled disabled		disabled disabled	disabled disabled disabled
Discharge Structure 3 - inactive Rate - Maximum - Positive Rate - Maximum - Negative Cumulative Volume - Maximum Positive Cumulative Volume - Maximum Negative Cumulative Volume - End of Simulation	disabled disabled disabled disabled disabled		disabled disabled	disabled disabled disabled
Pollution Abatement: 36 Hour Stage and Infiltration Volume 72 Hour Stage and Infiltration Volume	36.000 72.000	15.20 15.05		3539.5 4793.2

Dry Retention 2 12-05-2018 10:04:20 Page 3

DRY RETENTION 2 RECOVERS HALF OF TREATMENT VOLUME AT HOUR 19.87 AFTER ATTENTUATION VOLUME RECOVERY AT HOUR 75.83. TOTAL TIME = 95.70 HOURS

## PONDS Version 3.3.0278 Retention Pond Recovery - Refined Method Copyright 2012 Devo Seereeram, Ph.D., P.E.

Detailed Results :: Scenario 1 :: 5162 ft<sup>3</sup> slug load

•	apsed Time nours)	Instantaneous Inflow Rate (ft³/s)	Outside Recharge (ft/day)	Stage Elevation (ft datum)	Infiltration Rate (ft³/s)	Combined Instantaneous Discharge Rate (ft³/s)	Cumulative Inflow Volume (ft³)	Cumulative Infiltration Volume (ft³)	Combined Cumulative Discharge (ft³)	Flow Type
\	0.000	860.3333	0.00000	15.00000	0.63034	0	0.000	0.0	0	N.A.
1	0.002	860.3333	0.00000	15.59956	0.62961	0	5162.000	3.8	0	S
٠,	2.400	0.0000	0.00000	15.49922	0.08155	0	5162.000	911.4	0	S
1	6.000	0.0000	0.00000	15.43196	0.03963	0	5162.000	1509.8	0	S
	12.000	0.0000	0.00000	15.36122	0.02537	0	5162.000	2130.5	0	S
	24.000	0.0000	0.00000	15.26793	0.01631	0	5162.000	2935.5	0	S
	36.000	0.0000	0.00000	15.19674	0.01263	0	5162.000	3539.5	0	S
	48.000	0.0000	0.00000	15.13849	0.01040	0	5162.000	4027.0	0	S
	60.000	0.0000	0.00000	15.08886	0.00887	0	5162.000	4437.6	0	S
	72.000	0.0000	0.00000	15.04546	0.00775	0	5162.000	4793.2	0	S
	84.000	0.0000	0.00000	15.00681	0.00427	0	5162.000	5107.0	0	S
~/	96.000	0.0000	0.00000	14.91511	0.00085	0	5162.000	5162.0	0	S
	120.000	0.0000	0.00000	14.77826	0.00000	0	5162.000	5162.0	0	S
/	144.000	0.0000	0.00000	14.68226	0.00000	0	5162.000	5162.0	0	S
•	168.000	0.0000	0.00000	14.60975	0.00000	0	5162.000	5162.0	0	S
	192.000	0.0000	0.00000	14.55247	0.00000	0	5162.000	5162.0	0	S
	216.000	0.0000	0.00000	14.50597	0.00000	0	5162.000	5162.0	0	S
	240.000	0.0000	0.00000	14.46724	0.00000	0	5162.000	5162.0	0	S
	264.000	0.0000	0.00000	14.43436	0.00000	0	5162.000	5162.0	0	S
	288.000	0.0000	0.00000	14.40610			5162.000	5162.0	0	N.A.

FULL RUNOFF VOLUME RECOVERY AT HOUR 72.00. AFTER ATTENUATION VOLUME RECOVERY AT HOUR 75.83. TOTAL TIME = 147.83 HOURS

Dry Retention 2 12-05-2018 10:04:20 Page 2

### **Project Data**

Project Name: Dry Retention 3

Simulation Description: Treatment Recovery Analysis

Project Number: 046403000

Engineer: Jordan L. Haggerty

Supervising Engineer: Bradley A. Younts

Date: 11-27-2018

### **Aquifer Data**

Base Of Aquifer Elevation, [B] (ft datum): 8.00

Water Table Elevation, [WT] (ft datum): 13.00

Horizontal Saturated Hydraulic Conductivity, [Kh] (ft/day): 16.00

Fillable Porosity, [n] (%):

Vertical infiltration was not considered.

### **Geometry Data**

Equivalent Pond Length, [L] (ft): 213.0

Equivalent Pond Width, [W] (ft): 28.0

Ground water mound is expected to intersect the pond bottom

### Stage vs Area Data

Stage	Area
(ft datum)	(ft²)
14.00	4914.0
16.25	9304.0

Dry Retention 3 12-05-2018 10:09:40 Page 1

Summary of Results :: Scenario 1 :: 5890 ft³ slug load

	Time (hours)	Stage (ft datum)	Rate (ft³/s)	Volume (ft³)
Stage Minimum Maximum	288.000 0.002	13.39 15.00		
Inflow Rate - Maximum - Positive Rate - Maximum - Negative Cumulative Volume - Maximum Positive Cumulative Volume - Maximum Negative Cumulative Volume - End of Simulation	0.002 None 0.002 None 288.000		981.6667 None	5890.0 None 5890.0
Infiltration Rate - Maximum - Positive Rate - Maximum - Negative Cumulative Volume - Maximum Positive Cumulative Volume - Maximum Negative Cumulative Volume - End of Simulation	0.002 None 84.000 None 288.000		0.8798 None	5890.0 None 5890.0
Combined Discharge Rate - Maximum - Positive Rate - Maximum - Negative Cumulative Volume - Maximum Positive Cumulative Volume - Maximum Negative Cumulative Volume - End of Simulation	None None None None 288.000		None None	None None 0.0
Discharge Structure 1 - inactive Rate - Maximum - Positive Rate - Maximum - Negative Cumulative Volume - Maximum Positive Cumulative Volume - Maximum Negative Cumulative Volume - End of Simulation	disabled disabled disabled disabled disabled		disabled disabled	disabled disabled disabled
Discharge Structure 2 - inactive Rate - Maximum - Positive Rate - Maximum - Negative Cumulative Volume - Maximum Positive Cumulative Volume - Maximum Negative Cumulative Volume - End of Simulation	disabled disabled disabled disabled disabled		disabled disabled	disabled disabled disabled
Discharge Structure 3 - inactive Rate - Maximum - Positive Rate - Maximum - Negative Cumulative Volume - Maximum Positive Cumulative Volume - Maximum Negative Cumulative Volume - End of Simulation	disabled disabled disabled disabled disabled		disabled disabled	disabled disabled disabled
Pollution Abatement: 36 Hour Stage and Infiltration Volume 72 Hour Stage and Infiltration Volume	36.000 72.000	14.29 14.05		4382.0 5618.0

Dry Retention 3 12-05-2018 10:09:41 Page 3

DRY RETENTION 3 RECOVERS HALF OF TREATMENT VOLUME AT HOUR 16.97 AFTER ATTENTUATION VOLUME RECOVERY AT HOUR 84.17. TOTAL TIME = 101.14 HOURS

## PONDS Version 3.3.0278 Retention Pond Recovery - Refined Method Copyright 2012 Devo Seereeram, Ph.D., P.E.

Detailed Results :: Scenario 1 :: 5890 ft<sup>3</sup> slug load

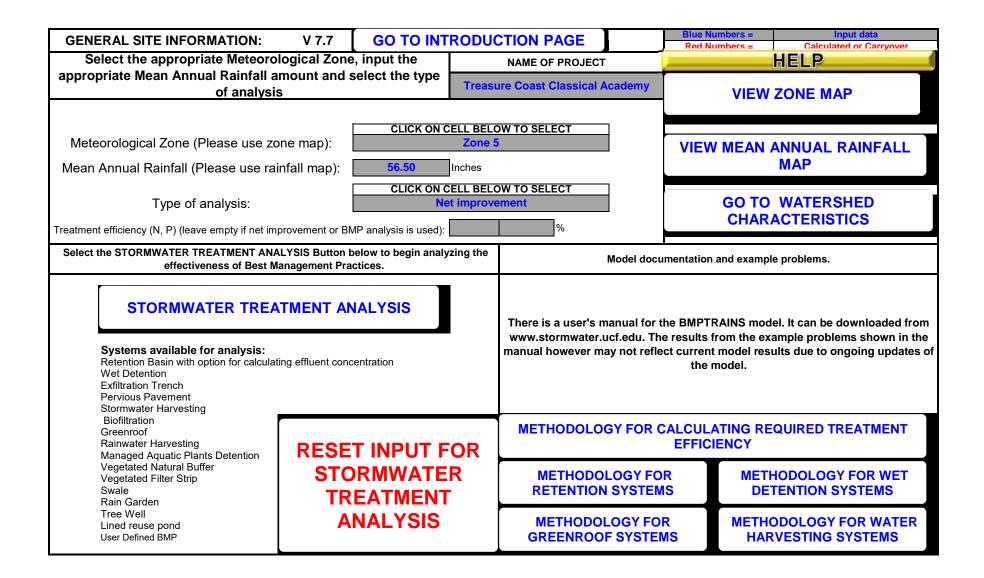
						Combined					
	lapsed Time nours)	Instantaneous Inflow Rate (ft³/s)	Outside Recharge (ft/day)	Stage Elevation (ft datum)	Infiltration Rate (ft³/s)	Instantaneous Discharge Rate (ft³/s)	Cumulative Inflow Volume (ft³)	Cumulative Infiltration Volume (ft³)	Combined Cumulative Discharge (ft³)	Flow Type	
\	0.000	981.6667	0.00000	14.00000	0.88081	0	0.000	0.0	0	N.A.	
1	0.002	981.6667	0.00000	14.99930	0.87979	0	5890.000	5.3	0	S	
< \	2.400	0.0000	0.00000	14.81262	0.11075	0	5890.000	1252.6	0	S	
1	6.000	0.0000	0.00000	14.69047	0.05090	0	5890.000	2031.9	0	S	
	12.000	0.0000	0.00000	14.56556	0.03083	0	5890.000	2798.8	0	S	
	24.000	0.0000	0.00000	14.40726	0.01832	0	5890.000	3726.9	0	S	
	36.000	0.0000	0.00000	14.29016	0.01338	0	5890.000	4382.0	0	S	
	48.000	0.0000	0.00000	14.19722	0.01045	0	5890.000	4882.9	0	S	
	60.000	0.0000	0.00000	14.12026	0.00851	0	5890.000	5284.9	0	S	
	72.000	0.0000	0.00000	14.05476	0.00700	0	5890.000	5618.0	0	S	
	84.000	0.0000	0.00000	13.99526	0.00315	0	5890.000	5890.0	0	S	
//	96.000	0.0000	0.00000	13.88007	0.00000	0	5890.000	5890.0	0	S	
/	120.000	0.0000	0.00000	13.74452	0.00000	0	5890.000	5890.0	0	S	
/	144.000	0.0000	0.00000	13.65092	0.00000	0	5890.000	5890.0	0	S	
•	168.000	0.0000	0.00000	13.58104	0.00000	0	5890.000	5890.0	0	S	
	192.000	0.0000	0.00000	13.52655	0.00000	0	5890.000	5890.0	0	S	
	216.000	0.0000	0.00000	13.48242	0.00000	0	5890.000	5890.0	0	S	
	240.000	0.0000	0.00000	13.44587	0.00000	0	5890.000	5890.0	0	S	
	264.000	0.0000	0.00000	13.41500	0.00000	0	5890.000	5890.0	0	S	
	288.000	0.0000	0.00000	13.38852			5890.000	5890.0	0	N.A.	

FULL RUNOFF VOLUME RECOVERY AT HOUR 72.00. AFTER ATTENUATION VOLUME RECOVERY AT HOUR 84.17. TOTAL TIME = 156.17 HOURS

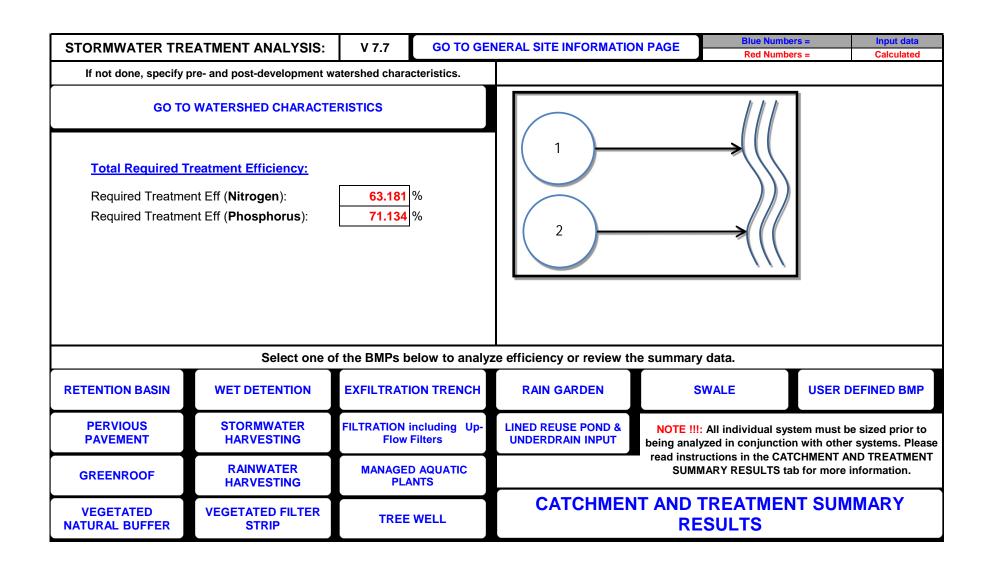
Dry Retention 3 12-05-2018 10:09:41 Page 2

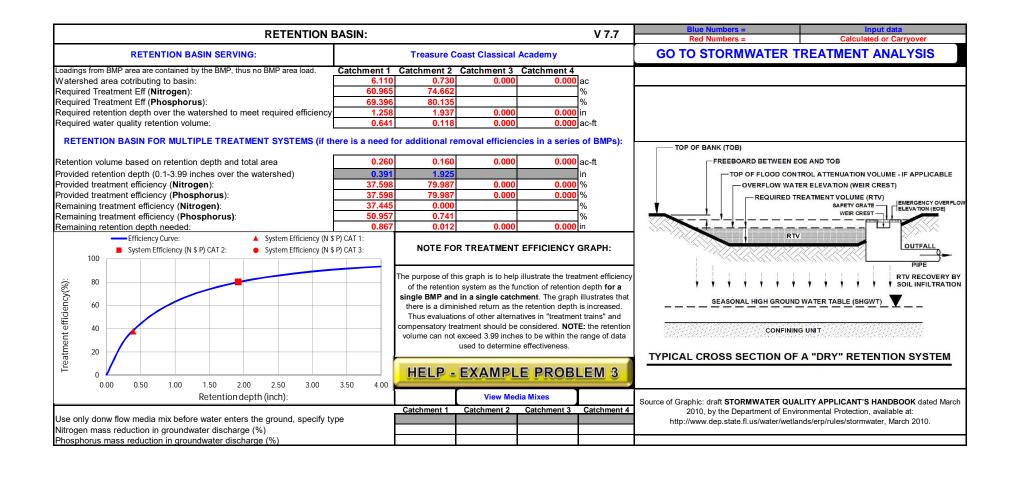
### APPENDIX 5

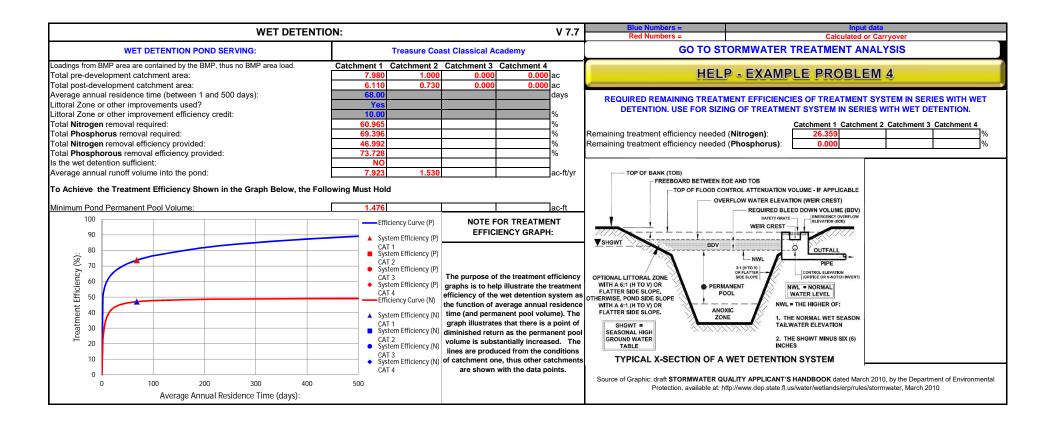
# NET NUTRIENT IMPROVEMENT ANALYSIS (BMPTRAINS v7.7)



WATERSHED CHARACTERISTICS V 7.7	GO TO S	TORMWATER TREATMENT ANALYSIS	Blue Numbers =  Red Numbers =	Input data Calculated	HELP - LAND USES/EMC
SELECT CATCHMENT CONFIGURATION	LL BELOW TO SELECT CONFIGURATION  C - 2 Catchment-Parallel	VIEW (	VIEW CATCHMENT CONFIGURATION		
CATCHMENT NO.1 CHARACTERISTICS:		VIEW AVERAGE ANNUAL RUNOFF	OVERWRITE	DEFAULT CONC	ENTRATIONS USING:
CLICK ON CELL BELOW TO	SELECT	"C" Factor	PRE:		POST:
Pre-development land use: User Defined (must over write con		o Tuoloi		mg/L	<b>1.130</b> mg/L
with default EMCs CLICK ON CELL BELOW TO			EMC( <b>P</b> ): <b>0.090</b>	mg/L	<b>0.188</b> mg/L
Post-development land use: Low-Intensity Commercial: TN=1.	13 TP=0.188	VIEW EMC & FLUCCS			
with default EMCs			OVERWE	RITE DEFAULT CO	NCENTRATIONS
otal pre-development catchment area:	7.98				
otal post-development catchment or BMP analysis area:		AC Average annual pre run	noff volume:		5.065 ac-ft/year
re-development Non DCIA CN:	77.00	Average annual post ru			7.923 ac-ft/year
re-development DCIA percentage:		% Pre-development Annu			4.310 kg/year
Post-development Non DCIA CN:	89.00	Pre-development Annu			<b>0.562</b> kg/year
ost-development DCIA percentage:	0.00				11.041 kg/year
stimated BMPArea (No loading from this area)	1.87	AC Post-development Annu	1		1.837 kg/year
CATCHMENT NO.2 CHARACTERISTICS:			OVERWR	ITE DEFAULT CO	NCENTRATIONS:
CLICK ON CELL BELOW TO	SELECT		PRE:		POST:
Pre-development land use: User Defined (must over write con	centrations)		EMC(N): 0.690	mg/L	1.130 mg/L
with default EMCs CLICK ON CELL BELOW TO				mg/L	<b>0.188</b> mg/L
Post-development land use: Low-Intensity Commercial: TN=1.					
with default EMCs			OVEDWE	NITE DEFAULT CO	NCENTRATIONS
otal pre-development catchment area:	1.00	AC	OVERVVE	CITE DEFAULT CC	NCENTRATIONS
otal post-development catchment or BMP analysis area:	1.00	AC Average annual pre run			0.635 ac-ft/year
re-development Non DCIA CN:	77.00	Average annual post ru	noff volume (note no E	BMP area):	1.530 ac-ft/year
re-development DCIA percentage:	0.00	% Pre-development Annu-	al Mass Loading - Nitr	ogen:	0.540 kg/year
Post-development Non DCIA CN:	95.00	Pre-development Annu	al Mass Loading - Pho	sphorus:	<b>0.070</b> kg/year
Post-development DCIA percentage:	0.00	% Post-development Annu	ual Mass Loading - Nit	rogen:	<b>2.131</b> kg/year
stimated BMPArea (No loading from this area)	0.27	AC Post-development Annu	ual Mass Loading - Ph	osphorus:	<b>0.355</b> kg/year
CATCHMENT NO.3 CHARACTERISTICS:			OVERWR	ITE DEFAULT CO	NCENTRATIONS:
CLICK ON CELL BELOW TO	SELECT		PRE:		POST:
Pre-development land use: User Defined (must over write con-				mg/L	1.130 mg/L
with default EMCs CLICK ON CELL BELOW TO				mg/L	<b>0.188</b> mg/L
Post-development land use: Low-Intensity Commercial: TN=1.			(. /.	<b>3</b> , –	
with default EMCs					
otal pre-development catchment area:		AC	OVERWE	RITE DEFAULT CO	INCENTRATIONS
otal post-development catchment or BMP analysis area:		AC Average annual pre run	noff volume:		ac-ft/year
Pre-development Non DCIA CN:		Average annual post ru		BMP area):	ac-ft/year
Pre-development DCIA percentage:					kg/year
Post-development Non DCIA CN:			Pre-development Annual Mass Loading - <b>Nitrogen:</b> Pre-development Annual Mass Loading - <b>Phosphorus:</b>		
Post-development DCIA percentage:		% Post-development Annu			kg/year kg/year
estimated BMPArea (no loading from this area)			ual Mass Loading - <b>Ph</b>		kg/year







### CATCHMENTS AND TREATMENT SUMMARY RESULTS

V 7.7

### **CALCULATION METHODS:**

- 1. The effectiveness of each BMP in a single catchment is converted to an equivalent capture volume.
- 2. Certain BMP treatment train combinations have not been evaluated and in practice they are at this time not used, an example is a greenroof following a tree well.
- 3. Wet detention is last when used in a single catchment with other BMPs, except when followed by filtration

PROJECT TITLE Treasure Coas		t Classical Academy	Optional Identification		
		Catchment 1:	Catchment 2:	Catchment 3:	Catchment 4:
BMP Name		Retention Basin	Retention Basin		
BMP	Name	Wet Detention			
ВМР	Name				

#### **Summary Performance of Entire Watershed** Catchment C - 2 Catchment-Parallel Configuration 12/6/2018 Nitrogen Pre Load (kg/yr) **BMPTRAINS MODEL** 4.85 Phosphorus Pre Load (kg/yr) 0.63 **Treatment** Nitrogen Post Load (kg/yr) 13.17 **Objectives** Phosphorus Post Load (kg/yr) 2.19 or Target Target Load Reduction (N) % 63.2 Target Load Reduction (P) % 71.1 Target Discharge Load, N (kg/yr) 4.85 Target Discharge Load, P (kg/yr) 0.63 Provided Overall Efficiency, N (%): 66.2 Provided Overall Efficiency, P (%): 80.2 Discharged Load, N (kg/yr & lb/yr): 4.45 9.80 Discharged Load, P (kg/yr & lb/yr): 0.43 0.96 8.72 19.21 Load Removed, N (kg/yr & lb/yr): 1.76 Load Removed, P (kg/yr & lb/yr): 3.87

### APPENDIX 6

# PREVIOUSLY APPROVED AND PERMITTED DRAINAGE REPORT SUPPORTING DOCUMENTS

#### PROPOSED ICPR MODEL - INPUT REPORT

1/19/2017

13.620 0.2500 14.620 0.3800 17.000 1.5700

Name: OUTFALL Base Flow(cfs): 0.000 Init Stage(ft): 12.000 Group: BASE Warn Stage(ft): 12.000

Type: Time/Stage

Time(hrs) Stage(ft)

0.00 12.000
999.00 12.000

Name: WETLAND 1 Base Flow(cfs): 0.000 Init Stage(ft): 14.950

Group: BASE Warn Stage(ft): 16.000

Type: Stage/Area

WETLAND 1 BASIN AREA

SEASONAL HIGH WATER LINE = 14.95 NAVD

Stage(ft)	Area(ac)
11.400	0.0010
11.500	0.1800
12.000	0.3400
15.000	4.1300
17.000	7.3200

Name: WETLAND 2 Base Flow(cfs): 0.000 Init Stage(ft): 12.620

Group: BASE

Base Flow(Cls): 0.000

Init Stage(ft): 12.020

Warn Stage(ft): 14.000

Type: Stage/Area

WETLAND 2 BASIN AREA

SEASONAL HIGH WATER MARK = 12.62 NAVD

Area(ac)	Stage(ft)		
0.0500	12.000		
0.5500	13.000		
3.2600	14.000		

Name: D-10 From Node: WETLAND 1 Length(ft): 440.00 Group: BASE To Node: D-12 Bubble up Count: 1

DOWNSTREAM UPSTREAM Friction Equation: Automatic Geometry: Circular Circular Solution Algorithm: Most Restrictive Span(in): 24.00 24.00 Flow: Both Rise(in): 24.00 24.00 Entrance Loss Coef: 0.000 Invert(ft): 12.500 12.000 Exit Loss Coef: 1.000 Manning's N: 0.012000 0.012000 Outlet Ctrl Spec: Use dc or tw Top Clip(in): 0.000 0.000 Inlet Ctrl Spec: Use dc Bot Clip(in): 0.000 0.000 Solution Incs: 10

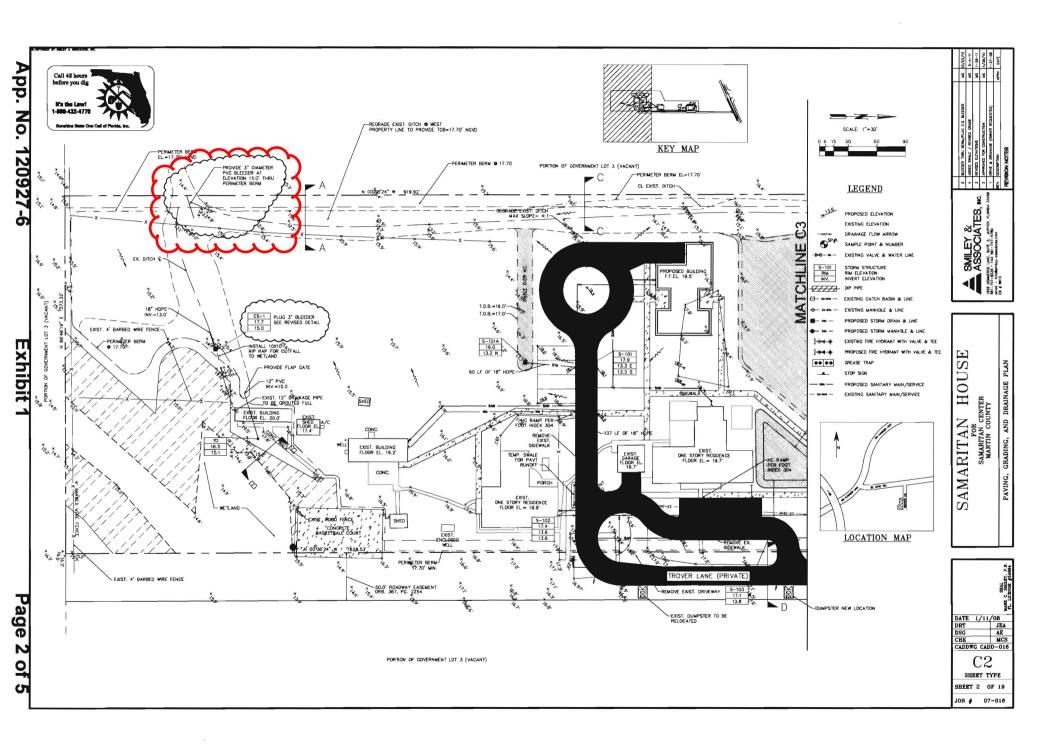
Upstream FHWA Inlet Edge Description: Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description: Circular Concrete: Square edge w/ headwall

\*\*\* Weir 1 of 2 for Drop Structure D-10 \*\*\*

TABLE

CAPTEC Engineering, Inc. 301 NW Flagler Ave. Stuart, FL 34994



SCANNED 10052009 L

C.

As shown in the table below, the proposed project discharge is within the allowable limit for the area.

Discharge Storm	Frequency : 25 YEAR-3	Design Rainfall: 12 inches		
Basin	Allow Disch (cfs)	Method Of Determination	Peak Disch (cfs)	Peak Stage ( ft, NGVD 29)
site	5.3	Pre Vs Post	5.3	17.52

### Finished Floors:

Building Storm Frequency: 100 YEAR-3 DAY

Design Rainfall: 15 inches

BasinPeak Stage<br/>(ft, NGVD 29)Proposed Min. Finished Floors<br/>(ft, NGVD 29)FEMA Elevation<br/>(ft, NGVD 29)site18.2719.5N/A

### Road Design:

Road Storm Frequency: 10 YEAR-1 DAY

Design Rainfall: 7 inches

Parking Lot Design:

BasinPeak Stage (ft, NGVD 29)Proposed Min.Parking Elev. (ft, NGVD 29)site16.8817

### Offsite Flows:

Please see the construction plans Exhibit 2.0. Approximately 2.3 acres to the west of the site contributes stormwater across the site via the existing pond, sheet flow and existing ditches. The existing ditches will remain and several ditches will be cleaned and/or re-graded and a few new ditch segments constructed to facilitate routing both the offsite and onsite stormwater runoff into the proposed system. The system will discharge to the onsite wetland that extends off site to the east and then to the south into the Atlantic Ridge State Park.

### **Control Elevation:**

Basin	Area (Acres)	Ctrl Elev ( ft, NGVD 29)	WSWT Ctrl Elev ( ft, NGVD 29)	
site	11.10	15	15.00	Wetland Indicator Elevation

### Receiving Body:

Basin	Str.#	Receiving Body	
Site	CS1	On site Wetland	

Water Quality Structures: Note: The units for all the elevation values of structures are (ft, NGVD 29)

Bleeders:

Basin	Str#	Count	Туре	Width	Height	Length Dia.	Invert Angle	Invert Elev.
site	CS1	1	Circular Orifice			3"		15

App.no.: 071107-17 Page 3 of 7

TRAFFIC IMPACT ANALYSIS (REV #1)

# COVE CHARTER SCHOOL MARTIN COUNTY, FL

PREPARED FOR: SUMMIT CONSTRUCTION GROUP

**Kimley** » Horn

December 2018 CA 00000696 Kimley-Horn and Associates, Inc. 116 S. Kentucky Ave Lakeland, Florida 863/701-8702 TEL

### TRAFFIC IMPACT ANALYSIS (REV #1)

### COVE CHARTER SCHOOL

MARTIN COUNTY, FL

Prepared by: Kimley-Horn and Associates, Inc. Lakeland, Florida

Kimley » Horn

December 2018 CA 00000696 Kimley-Horn and Associates, Inc. 116 S. Kentucky Ave Lakeland, Florida 863/701-8702 TEL THIS IS TO CERTIFY THAT THE ENCLOSED ENGINEERING CALCULATIONS WERE PERFORMED BY ME OR UNDER MY

James M. Taylor, P.E. Florida Registration Number #69979 CA No. 00000696

DIRECT SUPERVISION.

DATE:



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### **INTRODUCTION**

Kimley-Horn and Associates, Inc. was retained to prepare a traffic impact analysis for a proposed charter school development. This document presents the methodology used and the findings of the traffic impact analysis. The analysis was conducted in accordance with the requirements of the Martin County Land Development Regulations. A buildout year of 2021 was analyzed for the proposed development. The site is proposed to contain a charter school (K-12) with an enrollment of approximately 1,000 students. *Figure 1* shows the proposed site location.

A conceptual site plan is available in Appendix A.

Cove Charter School Page 3





### **EXISTING CONDITIONS**

The study area includes two (2) existing intersections in addition to the project driveway. Study area intersections are listed below and shown in *Figure 1*. A conceptual site plan is included in **Appendix A**.

- SR 76 (Kanner Highway) at SE Cove Road
- US 1 (SE Federal Highway) at SE Cove Road
- Proposed Project Driveway 1 at SE Cove Road

### **Volume Development**

Intersection turning movement counts were conducted on Thursday, August 2, 2018 at the two (2) existing study intersections between 7:00 AM – 9:00 AM and from 4:00 – 6:00 PM. Raw traffic count data from the intersection turning movement count data is included in **Appendix B**.

Raw traffic counts were seasonally adjusted using the Florida Department of Transportation's (FDOT's) 2016 Florida Traffic Information (FTI) database seasonal factor (SF) to determine the adjusted 2018 existing turning movement volumes. All FTI data is included in **Appendix C**. Volume development worksheets are included in **Appendix D**.

### **Existing 2018 Intersection Analysis**

The adjusted 2018 existing turning movement volumes, during the AM and PM peak hour, were analyzed using *Synchro* (v10) software. Intersection level of service (LOS) and maximum volume to capacity (v/c) ratios for the existing conditions are provided in **Table 1**. Synchro results and signal timing sheets are included in **Appendix E**.

Cove Charter School Page 5



Table 1: 2018 Existing Intersection Conditions

				Existin	g 2018 AM Pe	eak Hour	
Intersection	Control Type	Ammunash	Lovelof	MayV/C	MayV/C	Overall Int	ersection
intersection	Control Type	Approach	Level of Service	Max V/C Ratio	Max V/C Movement	Level of	Max v/c
			Service	Katio	iviovement	Service	Ratio
		EB	=	-	-		
SR 76 (Kanner Hwy) at SE Cove Road	Signalized	WB	E	0.88	WBL/R	С	0.88
		NB	С	0.77	NBT	C	
		SB	В	0.66	SBT		
		EB	D	0.54	EBL		
US 1 (Federal Hwy) at SE Cove Road	Cianalizad	WB	Е	0.84	WBT	<b>D</b>	
	Signalized	NB	D	0.76	NBL	D	0.84
		SB	D	0.51	SBT		

				Existin	g 2018 PM Pe	ak Hour	
Intersection	Control Type	Ammuoosh	Level of	MayV/C	May	Overall Int	ersection
intersection	Control Type	Approach	Service	Max V/C	Max V/C Movement	Level of	Max v/c
			Service	Ratio	iviovement	Service	Ratio
		EB	=	ı	-		0.91
SR 76 (Kanner Hwy) at	Cianalizad	WB	Е	0.85	WBL/R	С	
SE Cove Road	Signalized	NB	С	0.91	NBT	]	
		SB	С	0.79	SBT		
		EB	D	0.91	EBT		
US 1 (Federal Hwy) at SE Cove Road	Cianalizad	WB	D	0.60	WBT	D	0.01
	Signalized	NB	D	0.76	NBL	U	0.91
		SB	D	0.89	SBL		

As shown in the table, all study area intersections are anticipated to operate at an acceptable overall LOS (LOS D or better) and with v/c ratios less than one (1.0) at all approaches during both the AM and PM peak hours.



# **PROJECT TRAFFIC**

Project traffic used in this analysis is defined as the vehicle trips expected to be generated by the project, and the distribution and assignment of that traffic over the study roadway network.

## **Existing and Proposed Land Uses**

The existing site is currently vacant. The proposed development will consist of a 1,000-student charter school with grades K-12. The site is anticipated to be complete in 2021. This analysis was conducted based upon full buildout of the project. Access to the site is proposed via one (1) driveway located on SE Cove Road approximately 1,450 feet east of SE Atlantic Ridge Drive.

### **Trip Generation**

The trip generation potential for the proposed development program was calculated using trip generation rates and equations published by the Institute of Transportation Engineers' (ITE) Trip Generation Report, 10<sup>th</sup> Edition. Data provided by ITE for Land Use Code (LUC) 537 Charter Elementary School was referenced to determine build-out trip generation for the development. Although LUC 537 is specific to elementary school aged students while the proposed development has enrollment of K-12 students, the land use still applies based on the unique characteristics of a charter school. For example, charter schools typically do not utilize busses to transport students to and from school. Since busses are not a factor in this land use, it is assumed that upper grades will have similar drop-off and pick-up patterns to younger students due to the limited transportation options.

The following two (2) hours were chosen for local operational analysis:

- AM Peak (Generator) Hour: The school produces more trips in the AM peak (generator)
  hour than in the PM peak (generator) hour; therefore, the AM peak (generator) hour is
  the controlling operational constraint for both the internal site circulation and project
  driveway.
- PM Peak (Adjacent Street) Hour: The PM peak (generator) hour of the school does not
  occur during the Pm Peak Hour of the adjacent street traffic. It is anticipated that the
  background adjacent street traffic will be higher in the PM peak (adjacent street) hour
  than in both the AM and PM peak (generator) hours. Therefore, the traditional PM peak
  (adjacent street) hour was analyzed.

A trip generation summary is provided in **Table 2**.



# TABLE 2 COVE CHARTER SCHOOL TRAFFIC IMPACT ANALYSIS TRIP GENERATION

		TRIP GENE	NATION					
			AM	AM Peak Hour			Л Peak Ho	ur
Land Use		Intensity	Total	In	Out	Total	In	Out
Proposed Site								
Charter Elementary School		1,000 Students	1,136	602	534	140	49	91
	Subtotal		1,136	602	534	140	49	91
,	Net New E	External Trips →	1,136	602	534	140	49	91

Note 1: Trip generation based on ITE's *Trip Generation Manual*, 10th Edition (see below for specific information).

# Charter Elementary School [ITE 537]

Daily N/A

AM Peak Hour of Generator T = 1.14\*(X) - 4.33(X is # of Students; 53% in, 47% out)PM Peak Hour of Adjacent Street T = 0.14\*(X) (X is # of Students; 35% in, 65% out)



# **Traffic Distribution and Assignment**

A projected traffic distribution plan was developed based on a review of the existing uses within the project area, the roadway network and its travel time characteristics, and a transportation model run. The transportation model run was based on the Treasure Coast Regional Planning Model version 4 (TCRPM4), which is the area's approved model. Model output is included in **Appendix F**. *Figure 2* illustrates the proposed project distribution. *Figure 3* shows the trip assignment percentages. Using these percentages, project traffic then assigned to the surrounding roadway network projected to be in place by 2021. Project traffic volumes are shown in *Figure 4*.

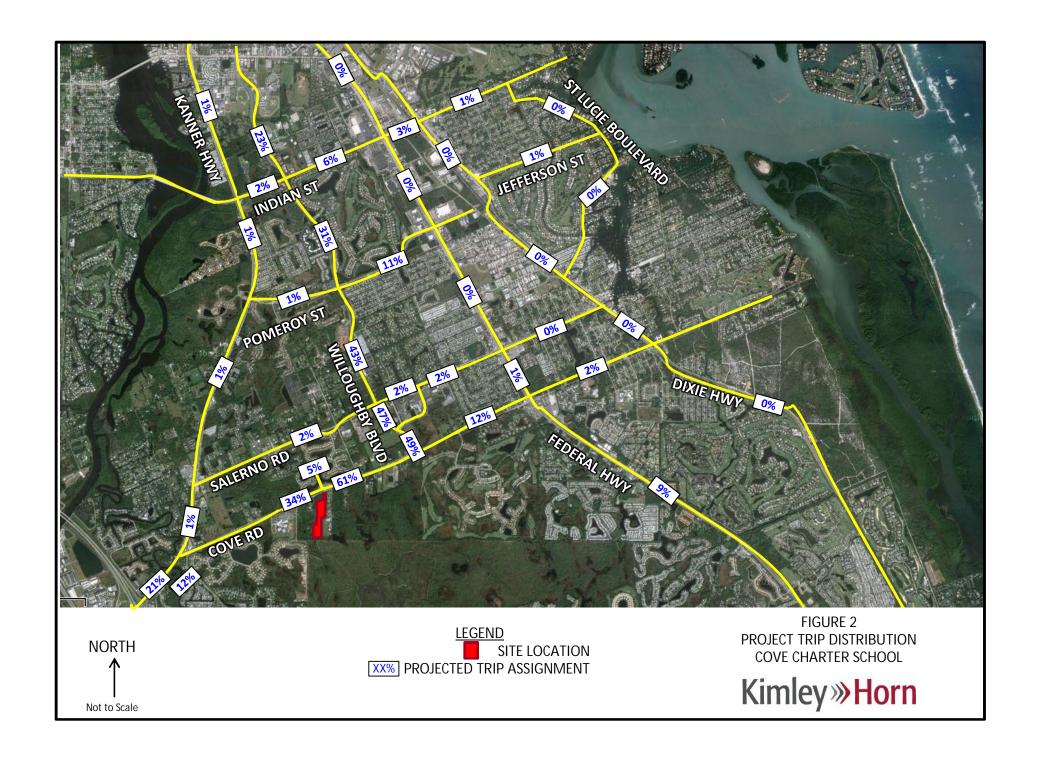
According to the Martin County Land Development Regulations, a roadway link is significantly impacted if the impact from the project traffic on that link is greater than two percent of the adopted service capacity threshold. Project significance calculations are included in **Table 3**. The links included in the analysis are those that are listed in the Martin County 2017 Roadway Level of Service Inventory Report, which is included in **Appendix G**.

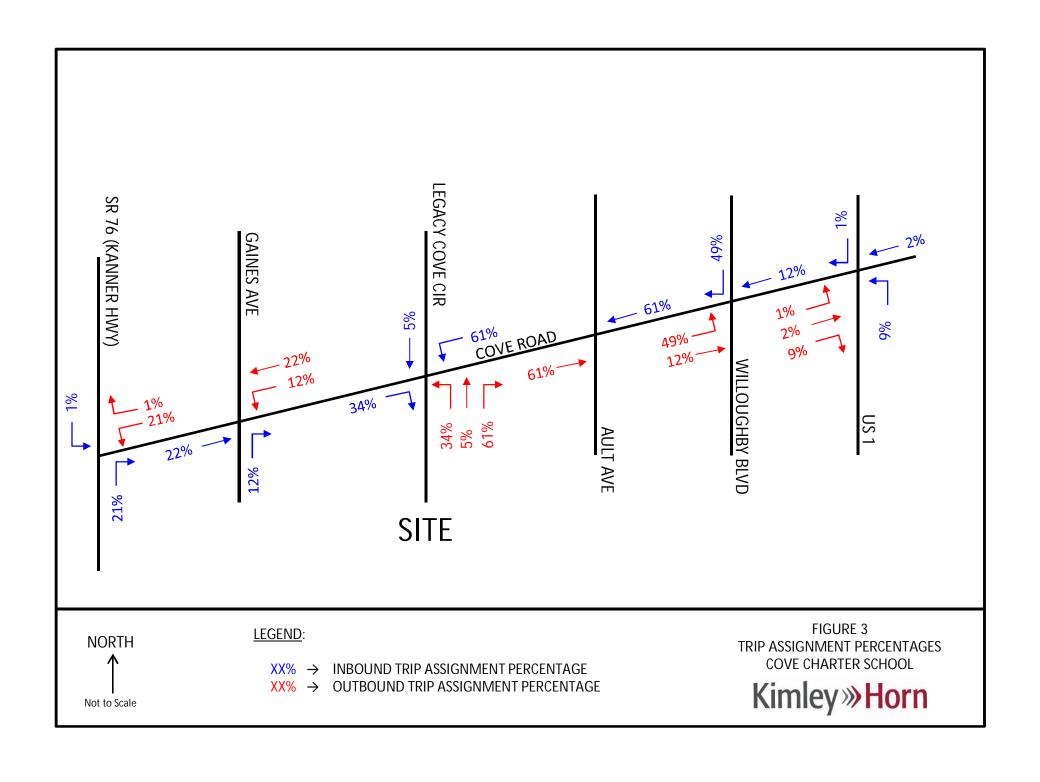


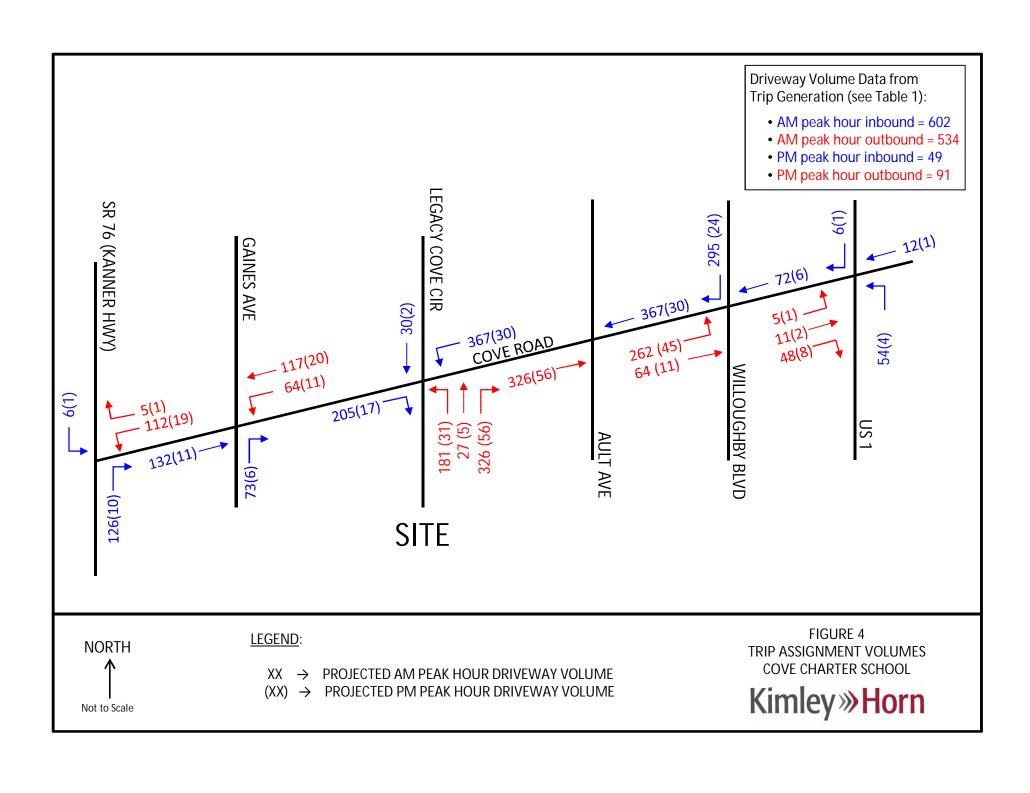
		TABLE 3					
	COVE CHARTER S	CHOOL TRAFFIC	IMPACT ANA	LYSIS			
	S	IGNIFICANCE T	EST				
Roadway		Number	Generalized	%	New	Project	Significant
Noadway		of	Service	Project	Project	Traffic	Impact ?
From	То	Lanes	Capacity	Assignment	Traffic	% Impact	(1)
Cove Road							
SR 76	Project Driveway	2LU	880	34%	205	23.3%	Yes
Project Driveway	Willoughby Boulevard	2LU	880	61%	367	41.7%	Yes
Willoughby Boulevard	SR 5	2LU	880	12%	72	8.2%	Yes
SR 5	CR A1A	2LU	750	2%	12	1.6%	No
CR A1A	End	2LU	675	1%	6	0.9%	No
Indian Street							
SR 76	Willoughby Boulevard	4LD	2,000	2%	12	0.6%	No
Willoughby Boulevard	SR 5	4LD	2,000	6%	36	1.8%	No
SR 5	Commerce Avenue	4LD	2,000	3%	18	0.9%	No
SR 76 (Kanner Highway)							
Locks Road	Jack James	6LD	3,020	4%	24	0.8%	No
Jack James	Cove Road	6LD	3,020	21%	126	4.2%	Yes
Cove Road	Salerno Road	6LD	3,020	1%	6	0.2%	No
Salerno Road							
SR 76	Willoughby Boulevard	2LU	880	2%	12	1.4%	No
Willoughby Boulevard	SR 5	2LU	790	2%	12	1.5%	No
Pomeroy Street						1.570	
SR 76	Willoughby Boulevard	2LD	790	1%	6	0.8%	No
Willoughby Boulevard	SR 5	2LD	790	11%	66	8.4%	Yes
Willoughby Boulevard	5.1.0				00	0.470	103
Cove Road	Salerno Road	2LU	880	49%	295	33.5%	Yes
Salerno Road	Pomeroy Street	2LU	880	43%	259	29.4%	Yes
Pomeroy Street	Indian Street	4LD	2.000	31%	187	9.4%	Yes
Indian Street	SR 714	4LD	2,000	23%	138	6.9%	Yes
SR 5 (US 1)	31(7)4	460	2,000	2570	130	0.9%	res
CR A1A	CR 708	4LD	2,000	6%	36	1 00/	Na
CR 708	Osprey Street	4LD	2,000	7%	42	1.8% 2.1%	No Yes
	Seabranch Boulevard	4LD 4LD	· '	7% 8%	42 48		
Osprey Street Seabranch Boulevard	Seabranch Boulevard Cove Road		2,000	8% 9%	48 54	2.4%	Yes
		6LD	3,020	-		1.8%	No
SR 714	SR 5A	6LD	3,020	0%	0	0.0%	No
SR 5A	SR 76	6LD	3,020	11%	66	2.2%	Yes
SR 76 Notes:	Palm City Road	6LD	2,520	8%	48	1.9%	No

| Page 10 Cove Charter School

 <sup>(1)</sup> Significant impact threshold is 2% (per Martin County Land Development Code)
 (2) The generalized service capacities were obtained from the Martin County 2017 Roadway Level of Service Inventory Report.









# 2021 BACKGROUND CONDITIONS

Traffic conditions were evaluated for the 2021 background year during AM and PM peak hours.

# **Background Peak Hour Intersection Analysis**

Existing turning movement data at the study intersections was increased annually based on the established growth rate established by Martin County 2017 Roadway Level of Service Report to develop background turning movement volumes. Synchro (v10) software was used to analyze study intersections under background conditions. **Table 4** summarizes the intersection performance, without the impact of project trips. As shown in the tables, all study area intersections are anticipated to operate at an acceptable overall LOS (LOS D or better) and with v/c ratios less than one (1.0) at all approaches during both the AM and PM peak hours. All synchro reports are included in **Appendix D**.

Table 4: 2021 Background Intersection Conditions

				Backgrou	ınd 2021 AM	Peak Hour	
Intersection	Control Type	Ammuoooh	Level of	MayV/C	Max V/C	Overall Int	ersection
intersection	Control Type	Approach	Service	Max V/C	Movement	Level of	Max v/c
			Service	Ratio	iviovement	Service	Ratio
		EB	-	-	-		
SR 76 (Kanner Hwy) at	Signalized	WB	E	0.90	WBL/R	С	0.90
SE Cove Road		NB	В	0.59	NBT	]	
		SB	В	0.48	SBT		
		EB	D	0.56	EBL		0.05
US 1 (Federal Hwy) at SE Cove Road	Cianalizad	WB	E	0.85	WBT	Б	
	Signalized	NB	D	0.77	NBL	D	0.85
		SB	D	0.56	SBT		

				Backgrou	ınd 2021 PM	Peak Hour	
Intersection	Control Type	Annroach	Level of	Max V/C	Max V/C	Overall Int	ersection
intersection	Control Type	Approacii	Service		Movement	Level of	Max v/c
			Service	Ratio	iviovement	Service	Ratio
		EB	-	-	-		
SR 76 (Kanner Hwy) at	Signalized	WB	E	0.86	WBL/R	C	0.86
SE Cove Road		NB	С	0.69	NBT	С	0.80
		SB	В	0.63	SBL		
		EB	D	0.88	EBT		
US 1 (Federal Hwy) at SE Cove Road	Cianalizad	WB	D	0.58	WBT	<b>D</b>	0.00
	Signalized	NB	D	0.84	NBL	D	0.88
		SB	Е	0.81	SBL		



# **Planned and Programmed Improvements**

A review of programmed roadway and intersection improvements in the study area was conducted. FDOT District 4 – Treasure Coast is currently in the process of reconstructing SR 76 (Kanner Highway) in the project vicinity. The project will widen the roadway from a four-lane divided highway to a six-lane divided highway with an anticipated completion date of Spring 2021. As the completion date of this project is within the lifespan of this project, these improvements were reflected in the background and build analyses.



# **2021 BUILDOUT CONDITIONS**

AM and PM peak hour future traffic conditions were evaluated for the 2021 buildout year of the development.

# **Buildout Peak Hour Intersection Analysis**

The anticipated future buildout intersection volumes were determined by adding the distributed project traffic to the future background turning movement volumes. Project traffic development worksheets for study intersections can be found in **Appendix D**.

The intersections were evaluated using *Synchro* (*v10*) software, and **Table 5** summarizes the intersection performance under 2021 buildout conditions. Synchro reports and signal timing sheets are included in **Appendix E**.

Table 5: Buildout Intersection Conditions

				Build	2021 AM Pea	ak Hour	
Intersection	Control Type	Annroach	Level of	Max V/C	Max V/C	Overall Int	ersection
intersection	Control Type	Approach	Service	Ratio	Movement	Level of	Max v/c
			Service	Ratio	Movement	Service	Ratio
	Signalized	EB	ı	-	-		
SR 76 (Kanner Hwy) at		WB	Е	0.97	WBL/R	С	0.97
SE Cove Road	Signalized	NB	В	0.60	NBR	C	0.97
		SB	В	0.50	SBT		
	Cianalizad	EB	D	0.57	EBL		0.86
US 1 (Federal Hwy) at		WB	E	0.86	WBT	D	
SE Cove Road	Signalized	NB	D	0.80	NBL	U	
		SB	D	0.59	SBT		
		EB	Α	0.03	EBL		
Project Driveway at		WB	В	0.51	WBL		0.74
SE Cove Road	Unsignalized	NB	D	0.74	NBR	-	0.74
		SB	С	0.06	SBR		

				Build	2021 PM Pea	k Hour	
Intersection	Control Type	Ammunanah	Level of	MayVIC	May V/C	Overall Int	ersection
intersection	Control Type	Approach	Service	Max V/C Ratio	Max V/C Movement	Level of	Max v/c
			Service	Natio	Movement	Service	Ratio
	Signalized	EB	-	1	-		
SR 76 (Kanner Hwy) at		WB	Е	0.86	WBL/R	С	0.86
SE Cove Road		NB	C	0.70	NBT	C	0.86
		SB	В	0.65	SBL		
	Signalized	EB	E	0.88	EBT		0.88
US 1 (Federal Hwy) at		WB	D	0.58	WBT	D	
SE Cove Road		NB	D	0.84	NBL		
		SB	D	0.82	SBL		
		EB	Α	0.08	EBL		
Project Driveway at SE		WB	Α	0.04	WBL		0.04
Cove Road	Unsignalized	NB	F	0.71	NBL/T	-	0.94
		SB	F	0.94	SBL/T		



As shown in the tables, all study area intersections are anticipated to operate at an acceptable overall LOS (LOS D or better) and with v/c ratios less than one (1.0) at all approaches during both the AM and PM peak hours. The following section provides a stacking analysis to forecast the anticipated onsite queue expected versus available onsite stacking capacity.

# **Project Access Operations and Stacking Analysis**

Access to Cove Charter School is provided via one driveway located at the existing intersection of SE Legacy Cove Circle at SE Cove Road. This driveway is anticipated to provide full-access to the school with two lanes of egress: one through/left lane and a dedicated right-turn lane. In addition to the intersection delay analysis performed at the driveway access point in the previous section, an AM peak hour queueing analysis was performed to determine if adequate vehicle storage is available onsite to avoid spillover onto SE Cove Road. Peak operations for drop-off and pick-up occur during the AM peak hour when the trip rate is the highest.

The peak queue length for exiting traffic during the AM peak hour operations was determined and compared to the available onsite queueing space anticipated in the conceptual site plan (**Appendix A**). To be conservative, the queueing analysis assumes 25% of vehicles arrive onsite and occupy available storage before drop-off operations begin. Afterwards, school staff is assumed to clear out traffic at the drop-off location at a rate equal to or greater than the arrival rate, making delay at the driveway provided by the Synchro analysis the limiting constraint.

**Table 6** provides the summary of the AM peak hour stacking analysis during drop-off and pick-up operations at Cove Charter School. As shown, the conceptual site plan provides enough vehicles storage to avoid spillover of entering project traffic onto SE Cove Road during peak operations.



Table 6: Vehicle Stacking Analysis Summary

Variables	AM Peak Hour Data
Peak Hour Trips In (veh/hr)	602
Peak Hour Trips Out (veh/hr)	534
Peak Hour Trips Total (veh/hr)	1,136
% of Initial Stacking	25%
Initial Stacking (veh)	134
95%-tile Back-of-Queue at Exit from Synchro output (veh)	6
Total Stacking Required Onsite (veh)	140
Stacking Available from Conceptual Map (veh) <sup>1</sup>	160
Is Onsite Vehicle Storage Adequate?	Yes

Note <sup>1</sup>: Assumed 22 feet per vehicle

# **Site Circulation and Turn Lane Requirements**

Access to the site is proposed via one full-access driveway on SE Cove Road. Based on the expected distribution of traffic to and from the site, project traffic volumes were calculated at the subject driveway connection. These volumes are shown in *Figure 4*. Based on the projected ingress turning volumes at each access point and the characteristics of the roadway facilities which the access driveways will connect to, exclusive ingress turning lanes will be required at the site entrance. Per the Martin County Land Development Code, turn lane lengths must satisfy FDOT requirements. As outlined in these requirements, the minimum acceptable turn lane length at the project entrance will be 290 feet (240 feet of deceleration length and 50 feet of queue length). It is recommended that an eastbound right and westbound left-turn lane be installed at the project entrance to mitigate traffic impacts to SE Cove Road during school hours.



# **Buildout AM Peak Hour Roadway Capacity Analysis**

As previously discussed, there are several roadway segments that are anticipated to be significantly impacted by the project per Martin County guidelines as shown in **Table 3**. These significantly impacted segments were evaluated for potential project impacts during the 2021 buildout scenario as detailed in **Table 7**. The anticipated 2021 future buildout roadway segment volumes were determined by adding distributed project traffic (AM peak hour) to background roadway segment volumes. Background roadway segment volumes utilized the annual percent growth rate as provided in the Martin County 2017 Roadway Level of Service Inventory Report. This report is included in **Appendix G**.

The roadway segment volumes are anticipated to operate acceptably under buildout conditions shown in **Table 7** with the exception of the segment of SE Cove Road from SR 76 to Willoughby Boulevard. The project traffic on this relatively short segment (only from the project driveway to SE Ault Avenue) is showing a v/c greater than one (1.0) and is anticipated to be mitigated by the proposed westbound left-turn lane.



				TABLE 7								
		COV	COVE CHARTER SCHOOL TRAFFIC IMPACT ANALYSIS	<b>JOL TRAFFI</b>	C IMPACT AN	ALYSIS						
			CAP/	CAPACITY ANALYSIS	.YSIS							
Vewbend		Generalized	2017	Annual	2021	2021	2021	%	New	2021	2021	Meets
noadway		Service	Existing	Growth	Background	Background	Background	Project	Project	Total	Total	Standard
From	70	Capacity	PHPD Volume	Rate	Growth	Traffic	V/C Ratio	Assignment	Traffic	Traffic	V/C Ratio	<b>ر.</b>
Cove Road												
SR 76	Project Driveway	880	635	2.40%	31	999	0.76	34%	205	871	0.99	Yes
Project Driveway	Willoughby Boulevard	880	635	2.40%	31	999	0.76	61%	367	1,033	1.17	ž
Willoughby Boulevard	SR5	880	999	2.70%	36	701	0.80	12%	72	773	0.88	Yes
SR 5	CR A1A	750	654	3.00%	40	694	0.93	2%	12	902	0.94	Yes
SR 76 (Kanner Highway)												
Jack James	Cove Road	3,020	2,353	2.40%	114	2,467	0.82	21%	126	2,593	98.0	Yes
Salerno Road												
SR 76	Willoughby Boulevard	880	382	3.30%	26	408	0.46	2%	12	420	0.48	Yes
Pomeroy Street												
SR 76	Willoughby Boulevard	790	447	3.30%	30	477	09.0	1%	9	483	0.61	Yes
Willoughby Boulevard	SR5	790	383	4.40%	34	417	0.53	11%	99	483	0.61	Yes
Willoughby Boulevard												
Cove Road	Salerno Road	880	223	8.00%	37	260	0.30	49%	295	555	0.63	Yes
Salerno Road	Pomeroy Street	880	478	7.90%	79	557	0.63	43%	259	816	0.93	Yes
Pomeroy Street	Indian Street	2,000	312	6.40%	41	353	0.18	31%	187	540	0.27	Yes
Indian Street	SR 714	2,000	480	0.50%	2	485	0.24	23%	138	623	0.31	Yes
SR 5 (US 1)												
CR 708	Osprey Street	2,000	1,506	2.00%	61	1,567	0.78	%2	42	1,609	0.80	Yes
Osprey Street	Seabranch Boulevard	2,000	1,065	2.30%	20	1,115	0.56	%8	48	1,163	0.58	Yes
SR 5A	SR 76	3,020	1,492	1.20%	36	1,528	0.51	11%	99	1,594	0.53	Yes
Notes:												
(1) The generalized service capar	(1) The generalized service capacities, existing peak hour peak direction (PHPD) traffic volumes, and annual growth rates utilized in this table were obtained from the Martin County 2017 Roadway Level of Service Inventory Report.	(PHPD) traffic vol	umes, and annual	growth rates	utilized in this t	able were obtai	ned from the M	artin County 20	17 Roadway I	Level of Sen	ice Inventory	Report.



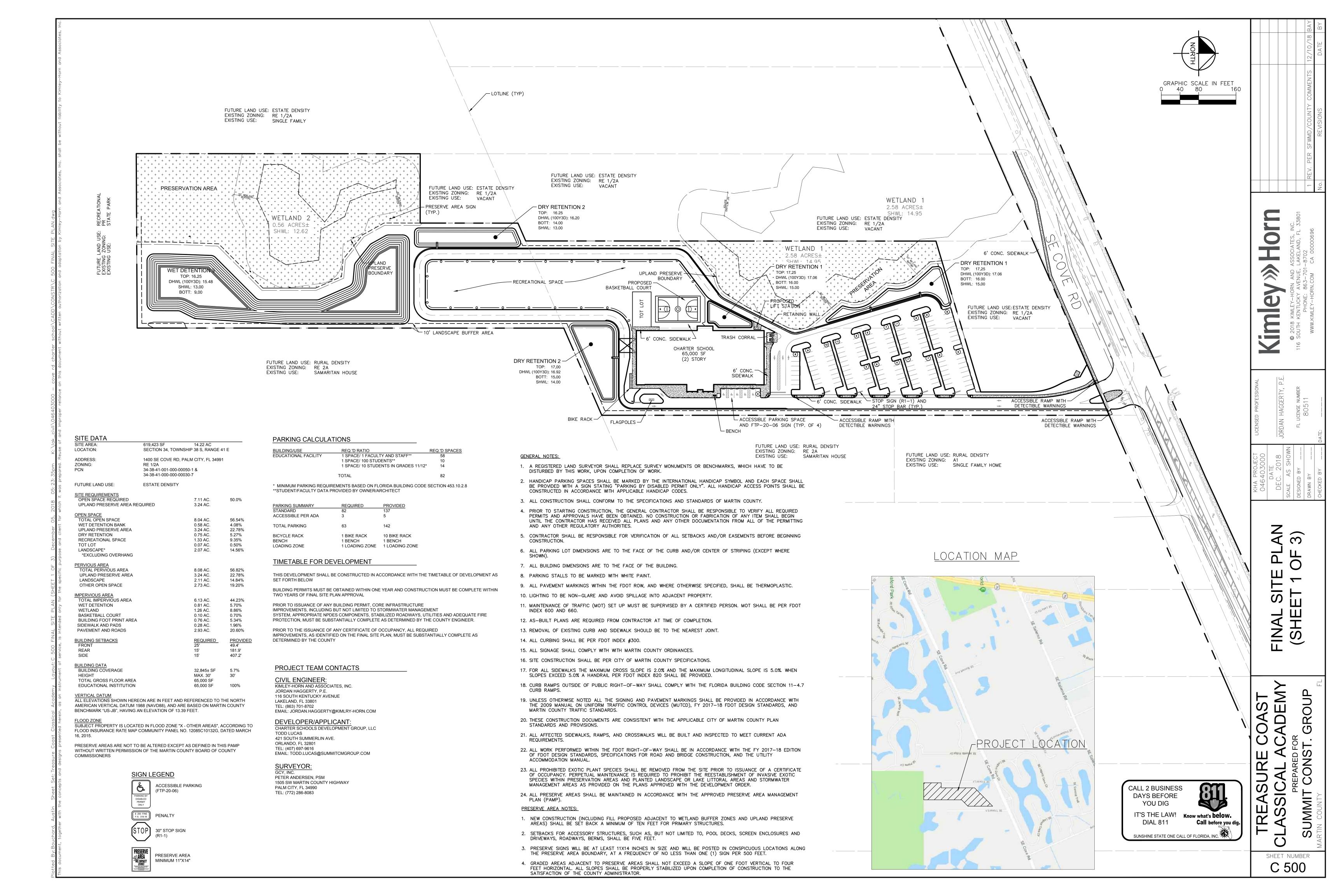
# CONCLUSION

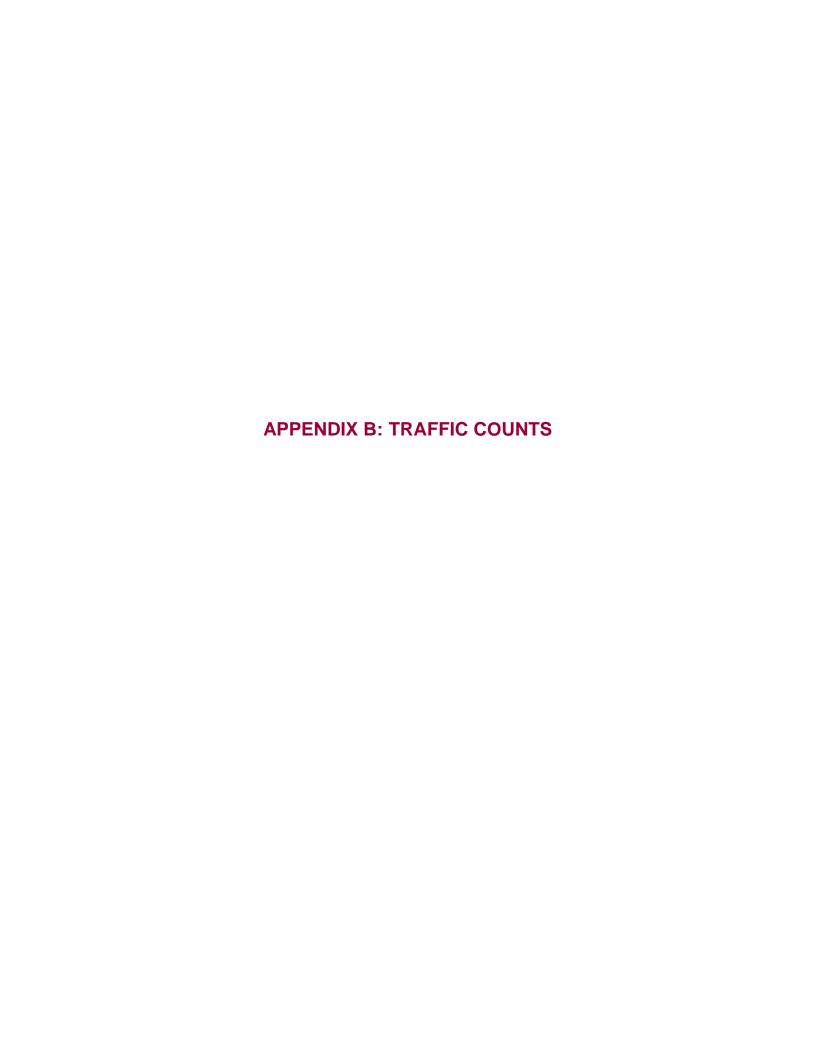
This traffic impact analysis was performed to assess the impacts of the proposed Cove Charter School. The school, to be accessed from SE Cove Road, is proposed to have a K-12 buildout enrollment of 1,000 students. Operational analysis for existing and future conditions was performed at local intersections along Cove Road and at the project access near SE Legacy Cove Circle for both the AM and PM peak hours. Additionally, a stacking analysis was performed to ensure adequate vehicle storage is proposed onsite to accommodate peak drop-off and pick-up operations.

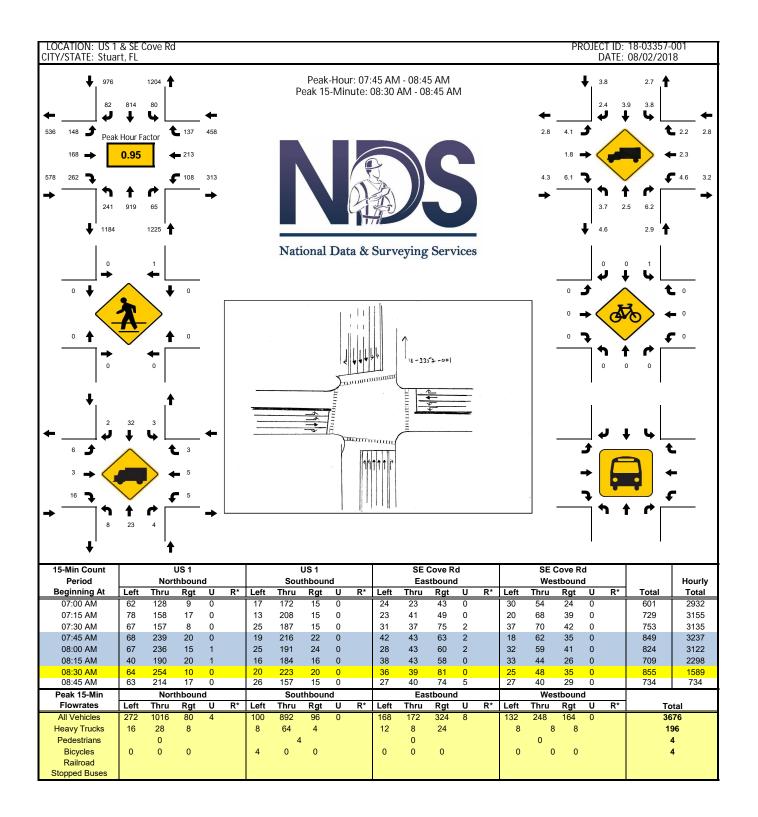
The project is expected to generate 1,136 net new external vehicular trips in the AM peak hour and 140 net new external vehicular trips in the PM peak hour based on ITE trip generation data and procedures. These trips were distributed onto the surrounding existing roadway network using the latest adopted regional travel demand model TCRPM4 and engineering judgement. Intersections in the study area were found to operate at an acceptable LOS in the buildout condition and with v/c ratios less than one (1.0) at all approaches during both the AM and PM peak hours.

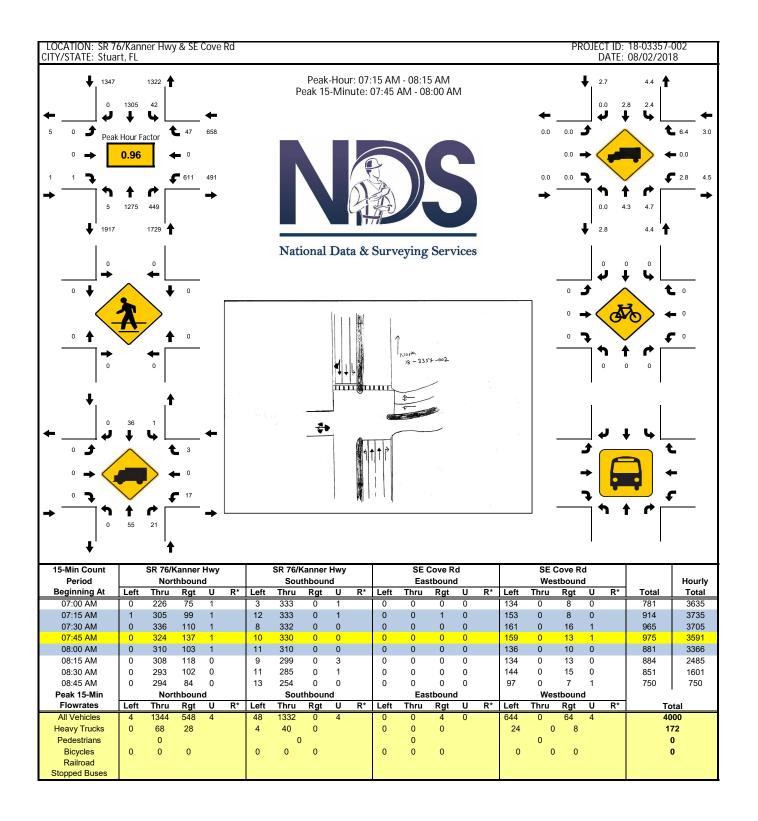
Based on traffic volumes at the proposed driveway, it is recommended that eastbound right and westbound left-turn lanes on SE Cove Road be provided at the project driveway. Using the operational assumptions within the report, an onsite stacking analysis shows the available onsite stacking capacity is adequate to support forecasted peak operations at the school without spillover onto SE Cove Road.

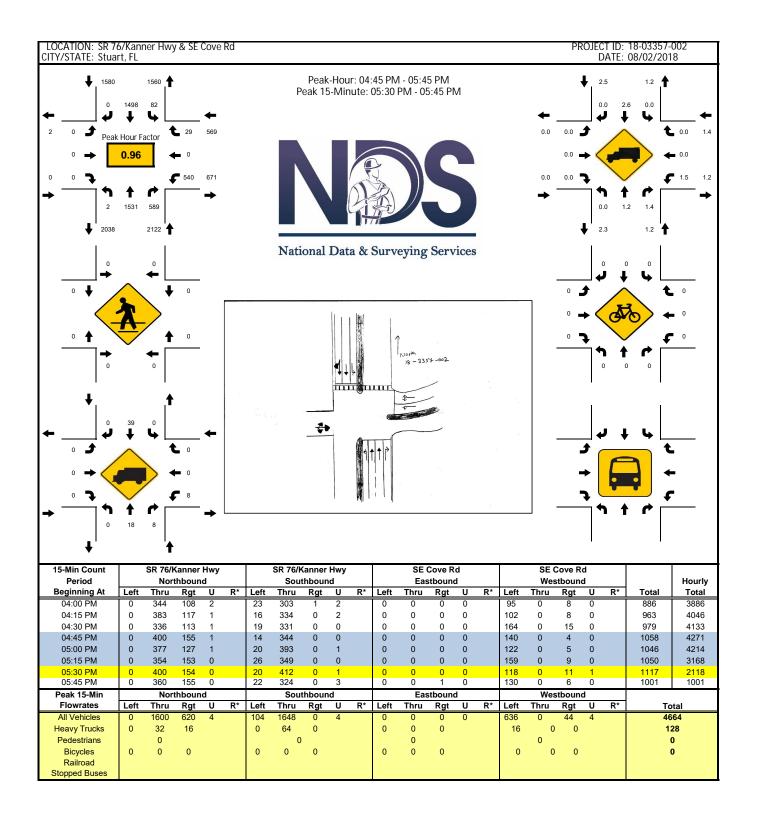
APPENDIX A: CONCEPTUAL SITE PLAN	











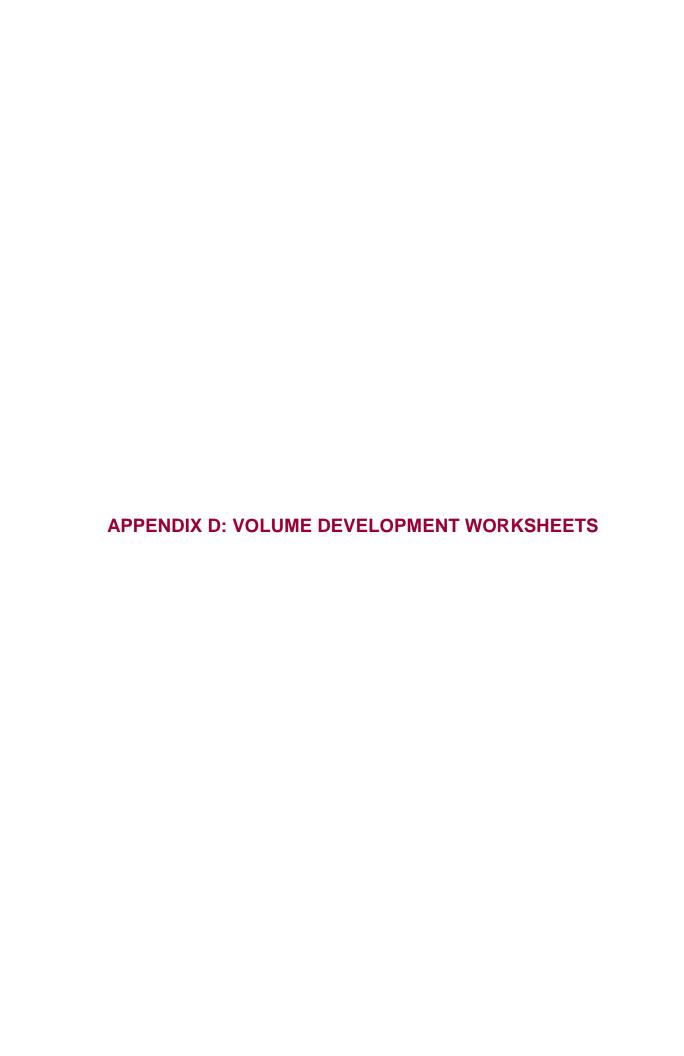
APPENDIX C: 2016 FTI SEASONAL FACTOR INFORMATION

2016 Peak Season Factor Category Report - Report Type: ALL Category: 8900 EAST- ALA TO US1

Catego	ory: 8900 EAST- A1A TO US1		
Week	Dates	SF	MOCF: 0.88 PSCF
1	01/01/2016 - 01/02/2016	1.01	1.15
2	01/03/2016 - 01/09/2016	0.97	1.10
3	01/10/2016 - 01/16/2016	0.93	1.06
* 4	01/17/2016 - 01/23/2016	0.91	1.03
* 5	01/24/2016 - 01/30/2016	0.90	1.02
* 6	01/31/2016 - 02/06/2016	0.88	1.00
* 7	02/07/2016 - 02/13/2016	0.86	0.98
* 8	02/14/2016 - 02/20/2016	0.85	0.97
* 9	02/21/2016 - 02/27/2016	0.85	0.97
*10	02/28/2016 - 03/05/2016	0.85	0.97
*11	03/06/2016 - 03/12/2016	0.85	0.97
*12	03/13/2016 - 03/19/2016	0.85	0.97
*13	03/20/2016 - 03/26/2016	0.87	0.99
*14	03/27/2016 - 04/02/2016	0.89	1.01
*15	04/03/2016 - 04/09/2016	0.91	1.03
*16	04/10/2016 - 04/16/2016	0.93	1.06
17	04/17/2016 - 04/23/2016	0.95	1.08
18	04/24/2016 - 04/30/2016	0.98	1.11
19	05/01/2016 - 05/07/2016	1.00	1.14
20	05/08/2016 - 05/14/2016	1.02	1.16
21	05/15/2016 - 05/21/2016	1.05	1.19
22	05/22/2016 - 05/28/2016	1.06	1.20
23	05/29/2016 - 06/04/2016	1.08	1.23
24	06/05/2016 - 06/11/2016	1.09	1.24
25	06/12/2016 - 06/18/2016	1.11	1.26
26	06/19/2016 - 06/25/2016	1.11	1.26
27	06/26/2016 - 07/02/2016	1.11	1.26
28	07/03/2016 - 07/09/2016	1.12	1.27
29	07/10/2016 - 07/16/2016	1.12	1.27
30	07/17/2016 - 07/23/2016	1.13	1.28
31	07/24/2016 - 07/30/2016	1.13	1.28
32	07/31/2016 - 08/06/2016	1.14	1.30
33	08/07/2016 - 08/13/2016	1.14	1.30
34	08/14/2016 - 08/20/2016	1.15	1.31
35	08/21/2016 - 08/27/2016	1.14	1.30
36	08/28/2016 - 09/03/2016	1.14	1.30
37	09/04/2016 - 09/10/2016	1.13	1.28
38	09/11/2016 - 09/17/2016	1.13	1.28
39	09/18/2016 - 09/24/2016	1.11	1.26
40	09/25/2016 - 10/01/2016	1.10	1.25
41	10/02/2016 - 10/08/2016	1.08	1.23
42	10/09/2016 - 10/15/2016	1.07	1.22
43 44	10/16/2016 - 10/22/2016	1.06	1.20
45	10/23/2016 - 10/29/2016	1.06	1.20
46	10/30/2016 - 11/05/2016 11/06/2016 - 11/12/2016	1.05 1.05	1.19 1.19
47			
48	11/13/2016 - 11/19/2016	1.04 1.03	1.18 1.17
49	11/20/2016 - 11/26/2016 11/27/2016 - 12/03/2016		1.17
50		1.02	
50	12/04/2016 - 12/10/2016	1.01	1.15
52	12/11/2016 - 12/17/2016 12/18/2016 - 12/24/2016	1.01	1.15
53		0.97	1.10
33	12/25/2016 - 12/31/2016	0.93	1.06

\* Peak Season

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# INTERSECTION VOLUME SHEET

SR 76 (Kanner Hwy) & Cove Road

Weekday			SR 76 (Ka	nner Hwy	')				Cove	Road		
AM Peak Hour	1	Northboun	<u>d</u>	3	Southboun	<u>d</u>		Eastbound	<u>d</u>	1	Westboun	<u>d</u>
(7:15 AM - 8:15 AM)	U	Т	R	L	Т	R	L	Т	R	L	Т	R
TMC	5	1,275	449	42	1,305	0	0	0	0	611	0	47
Seasonal Factor	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14
Heavy Vehicle %	0%	4%	5%	2%	3%	0%	0%	0%	0%	3%	0%	6%
Peak Hour Factor		0.94			0.99			-			0.96	
Existing Volumes (2018)	6	1,454	512	48	1,488	0	0	0	0	697	0	54
Growth Factor	2.4%	2.4%	2.4%	0.9%	0.9%	0.9%	0.0%	0.0%	0.0%	2.4%	2.4%	2.4%
Number of Years	3	3	3	3	3	3	3	3	3	3	3	3
Future Background (2021)	6	1,561	550	49	1,529	0	0	0	0	748	0	58
Project Assignment	0%	0%	21%	1%	0%	0%	0%	0%	0%	21%	0%	1%
Direction	n/a	n/a	in	in	n/a	n/a	n/a	n/a	n/a	out	n/a	out
Project Trips	0	0	126	6	0	0	0	0	0	112	0	5
Project Buildout	6	1,561	676	55	1,529	0	0	0	0	860	0	63

Weekday		;	SR 76 (Ka	nner Hwy	')				Cove	Road		
PM Peak Hour	<u> </u>	Northboun	<u>d</u>	9	Southboun	<u>d</u>	!	Eastbound	<u>1</u>	1	Nestbound	<u>d</u>
(4:45 PM - 5:45 PM)	U	Т	R	L	Т	R	L	Т	R	L	Т	R
TMC	2	1,531	589	82	1,498	0	0	0	0	540	0	29
Seasonal Factor	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14
Heavy Vehicle %	0%	1%	1%	0%	3%	0%	0%	0%	0%	1%	0%	0%
Peak Hour Factor		0.96			0.91			-			1.10	
Existing Volumes (2018)	2	1,745	671	93	1,708	0	0	0	0	616	0	33
Growth Factor	2.4%	2.4%	2.4%	0.9%	0.9%	0.9%	0.0%	0.0%	0.0%	2.4%	2.4%	2.4%
Number of Years	3	3	3	3	3	3	3	3	3	3	3	3
Future Background (2021)	2	1,874	720	96	1,755	0	0	0	0	661	0	35
Project Assignment	0%	0%	21%	1%	0%	0%	0%	0%	0%	21%	0%	1%
Direction	n/a	n/a	in	in	n/a	n/a	n/a	n/a	n/a	out	n/a	out
Project Trips	0	0	10	0	0	0	0	0	0	19	0	1
Project Buildout	2	1,874	730	96	1,755	0	0	0	0	680	0	36

# INTERSECTION VOLUME SHEET

US 1 & Cove Road

Weekday			U	S 1					Cove	Road		
AM Peak Hour	1	Northboun	<u>ıd</u>	5	Southboun	d		Eastbound	<u>1</u>	<u>\</u>	<b>Nestboun</b>	<u>d</u>
(7:15 AM - 8:15 AM)	L	Т	R	L	Т	R	L	Т	R	L	Т	R
TMC	280	790	60	82	802	76	124	164	247	107	259	157
Seasonal Factor	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14
Heavy Vehicle %	4%	2%	2%	2%	2%	4%	4%	4%	4%	5%	1%	1%
Peak Hour Factor		0.86			0.93			0.90			1.14	
Existing Volumes (2018)	319	901	68	93	914	87	141	187	282	122	295	179
Growth Factor	0.9%	0.9%	0.9%	0.9%	0.9%	0.9%	2.7%	2.7%	2.7%	3.0%	3.0%	3.0%
Number of Years	3	3	3	3	3	3	3	3	3	3	3	3
Future Background (2021)	328	926	70	96	939	89	153	203	305	133	322	196
Project Assignment	9%	0%	0%	0%	0%	1%	1%	2%	9%	0%	2%	0%
Direction	in	n/a	n/a	n/a	n/a	in	out	out	out	n/a	in	n/a
Project Trips	54	0	0	0	0	6	5	11	48	0	12	0
Project Buildout	382	926	70	96	939	95	158	214	353	133	334	196

PM Peak Hour		Northboun	<u>d</u>		Southboun	<u>d</u>		Eastbound	<u>d</u>	1	Westboun	<u>d</u>
(4:45 PM - 5:45 PM)	L	Т	R	L	Т	R	L	Т	R	L	Т	R
TMC	366	1,153	121	221	956	107	100	295	316	128	199	160
Seasonal Factor	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14
Heavy Vehicle %	0%	1%	1%	1%	1%	5%	8%	1%	1%	1%	2%	2%
Peak Hour Factor		1.01			0.91			0.94			1.08	
Existing Volumes (2018)	417	1,314	138	252	1,090	122	114	336	360	146	227	182
Growth Factor	0.9%	0.9%	0.9%	0.9%	0.9%	0.9%	2.7%	2.7%	2.7%	3.0%	3.0%	3.0%
Number of Years	3	3	3	3	3	3	3	3	3	3	3	3
Future Background (2021)	428	1,350	142	259	1,120	125	123	364	390	160	248	199
Project Assignment	9%	0%	0%	0%	0%	1%	1%	2%	9%	0%	2%	0%
Direction	in	n/a	n/a	n/a	n/a	in	out	out	out	n/a	in	n/a
Project Trips	4	0	0	0	0	0	1	2	8	0	1	0
Project Buildout	432	1,350	142	259	1,120	125	124	366	398	160	249	199

# INTERSECTION VOLUME SHEET

# Project Driveway #1 & Cove Road

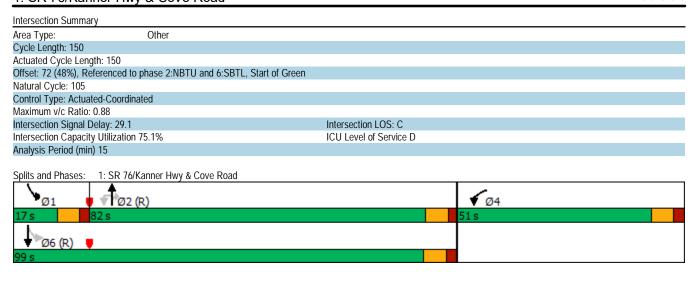
Weekday			Project D	riveway #	1				Cove	Road		
AM Peak Hour	<u> </u>	Northboun	<u>d</u>	3	Southboun	<u>d</u>		Eastbound	<u>t</u>		Westbound	<u>t</u>
(7:15 AM - 8:15 AM)	L	Т	R	L	Т	R	L	Т	R	L	Т	R
TMC	0	0	0	44	0	16	15	476	0	0	653	5
Seasonal Factor	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14
Heavy Vehicle %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Peak Hour Factor		#DIV/0!			#DIV/0!			#DIV/0!			#DIV/0!	
Existing Volumes (2018)	0	0	0	50	0	18	17	543	0	0	744	6
Growth Factor	2.0%	2.0%	2.0%	2.7%	2.7%	2.7%	2.7%	2.7%	2.7%	2.7%	2.7%	2.7%
Number of Years	3	3	3	3	3	3	3	3	3	3	3	3
Future Background (2021)	0	0	0	54	0	19	18	588	0	0	806	6
Project Assignment	34%	5%	61%	0%	5%	0%	0%	0%	34%	61%	0%	0%
Direction	out	out	out	n/a	in	n/a	n/a	n/a	in	in	n/a	n/a
Project Trips	182	27	326	0	30	0	0	0	205	367	0	0
Project Buildout	182	27	326	54	30	19	18	588	205	367	806	6

Weekday		•	Project Di	riveway #´	1				Cove	Road	•		
PM Peak Hour		Northboun	<u>d</u>	3	Southboun	<u>ıd</u>		Eastbound	<u>d</u>		Westbound		
(4:45 PM - 5:45 PM)	L	Т	R	L	Т	R	L	T	R	L	T	R	
TMC	0	0	0	29	0	11	50	621	0	0	551	18	
Seasonal Factor	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	
Heavy Vehicle %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
Peak Hour Factor		#DIV/0!			#DIV/0!			#DIV/0!			#DIV/0!		
Existing Volumes (2018)	0	0	0	33	0	12	57	708	0	0	628	21	
Growth Factor	2.0%	2.0%	2.0%	2.7%	2.7%	2.7%	2.7%	2.7%	2.7%	2.7%	2.7%	2.7%	
Number of Years	3	3	3	3	3	3	3	3	3	3	3	3	
Future Background (2021)	0	0	0	36	0	13	62	767	0	0	680	23	
Project Assignment	34%	5%	61%	0%	5%	0%	0%	0%	34%	61%	0%	0%	
Direction	out	out	out	n/a	in	n/a	n/a	n/a	in	in	n/a	n/a	
Project Trips	31	5	56	0	2	0	0	0	17	30	0	0	
Project Buildout	31	5	56	36	2	13	62	767	17	30	680	23	



	•	•	₽ſ	<b>†</b>	<b>/</b>	<b>/</b>	<b>+</b>
Lane Group	WBL	WBR	NBU	NBT	NBR	SBL	SBT
Lane Configurations	***	WDI(	<b>₽</b>	<b>*</b>	NDK **	SDL <b>Š</b>	<u> </u>
Traffic Volume (vph)	697	54	6	1454	512	48	1488
Future Volume (vph)	697	54	6	1454	512	48	1488
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	0	200		400	150	
Storage Lanes	2	0	1		1	1	
Taper Length (ft)	25		100			150	
Lane Util. Factor	0.97	0.95	1.00	0.95	1.00	1.00	0.95
Frt	0.989				0.850		
FIt Protected	0.956		0.950			0.950	
Satd. Flow (prot)	3417	0	1770	3539	1583	1770	3539
Flt Permitted	0.956		0.128			0.065	
Satd. Flow (perm)	3417	0	238	3539	1583	121	3539
Right Turn on Red		Yes			Yes		
Satd. Flow (RTOR)	5				545		
Link Speed (mph)	45			45			50
Link Distance (ft)	4142			2306			2132
Travel Time (s)	62.8	0.01		34.9			29.1
Peak Hour Factor	0.96	0.96	0.92	0.94	0.94	0.99	0.99
Adj. Flow (vph)	726	56	7	1547	545	48	1503
Shared Lane Traffic (%)	700	•	-	15.17	F.45	10	1500
Lane Group Flow (vph)	782	0	7	1547	545	48	1503
Turn Type	Prot		Perm	NA	Perm	pm+pt	NA
Protected Phases	4		2	2	2	1	6
Permitted Phases			2	2	2	6	,
Detector Phase	4		2	2	2	1	6
Switch Phase	7.0		10.0	10.0	10.0	ГО	10.0
Minimum Initial (s)	7.0		10.0	10.0	10.0	5.0	10.0
Minimum Split (s)	44.5		25.1	25.1	25.1	12.1	25.4
Total Split (s) Total Split (%)	51.0 34.0%		82.0 54.7%	82.0 54.7%	82.0 54.7%	17.0 11.3%	99.0 66.0%
Maximum Green (s)	34.0% 43.5		74.9	74.9	74.9	9.9	91.6
Yellow Time (s)	43.5		5.1	74.9 5.1	5.1	4.8	5.1
All-Red Time (s)	2.7		2.0	2.0	2.0	2.3	2.3
Lost Time Adjust (s)	0.0		0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.5		7.1	7.1	7.1	7.1	7.4
Lead/Lag	1.3		Lag	Lag	Lag	Lead	7.4
Lead-Lag Optimize?			Yes	Yes	Yes	Yes	
Vehicle Extension (s)	3.0		3.0	3.0	3.0	3.0	3.0
Recall Mode	None		C-Max	C-Max	C-Max	None	C-Max
Walk Time (s)	5.0		O-IVIAX	O-IVIAX	O-IVIAX	None	O-IVIAX
Flash Dont Walk (s)	32.0						
Pedestrian Calls (#/hr)	0						
Act Effct Green (s)	38.9		84.8	84.8	84.8	96.5	96.2
Actuated g/C Ratio	0.26		0.57	0.57	0.57	0.64	0.64
v/c Ratio	0.88		0.05	0.37	0.48	0.04	0.66
Control Delay	64.6		19.8	30.3	3.0	16.1	19.2
Queue Delay	0.0		0.0	0.0	0.0	0.0	0.0
Total Delay	64.6		19.8	30.3	3.0	16.1	19.2
LOS	E		В	C C	3.0 A	В	В
Approach Delay	64.6		U	23.2	- 11	U	19.1
Approach LOS	E			C			В
Queue Length 50th (ft)	374		3	630	0	17	467
Queue Length 95th (ft)	441		13	792	59	36	581
Internal Link Dist (ft)	4062			2226			2052
Turn Bay Length (ft)	.002		200		400	150	
Base Capacity (vph)	994		134	2001	1132	186	2268
Starvation Cap Reductn	0		0	0	0	0	0
Spillback Cap Reductn	0		0	0	0	0	0
Storage Cap Reductn	0		0	0	0	0	0
Reduced v/c Ratio	0.79		0.05	0.77	0.48	0.26	0.66

Synchro 10 Report Page 1 Cove Road Charter School

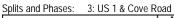


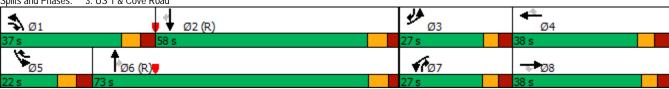
Cove Road Charter School Synchro 10 Report

Lance Configurations    The Configurations   The Co		٠	<b>→</b>	•	•	<b>←</b>	4	1	<b>†</b>	1	-	ļ	1
Traffic Volume (ptp)	Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Traffic Volume (ptp)  141 187 282 122 295 179 319 901 68 93 914   Turner Volume (ptp) 141 187 282 122 295 179 319 901 68 93 914   Turner Volume (ptph) 140 1900 1900 1900 1900 1900 1900 1900 1	Lane Configurations	14.14	•	7	16.36	•	7	16.56	<b>*</b>	7	16.00	***	7
				282			179						87
Storage Length (ft)	Future Volume (vph)	141	187	282	122	295	179	319	901	68	93	914	87
Storage Laries	Ideal Flow (vphpl)		1900			1900	1900		1900			1900	1900
Taper Length (ff)													225
Lane Utility Report   1,00				1			1			1			1
Fit Protected: 0.950													
Filt Protected		0.97	1.00		0.97	1.00		0.97	0.91		0.97	0.91	1.00
Sald Flow (prot)   3433   1863		0.050		0.850	0.050		0.850	0.050		0.850	0.050		0.850
File Permitted			10/2	1500		10/2	1500		F00F	1500		F00F	1502
Sald, Flow (perm)  Add 3 1863 1883 3433 1863 1883 3433 5085 1883 3433 343 343 343 343 343 343 343 343	4 /		1803	1583		1803	1583		5085	1583		5085	1583
Right   Lun on Red   Yes   Y			1062	1502		1042	1502		5005	1502		EUOE	1583
Salid, Flow (RTOR)		3433	1003		3433	1003		3433	3063		3433	3003	Yes
Link Spead (mph)													149
Link Distance (f)			35	71		35	130		45	74		45	147
Travel Time (s)													
Peak Hour Factor													
Adj. Flow (yph)		0.90		0.90	0.95		0.95	0.86		0.86	0.93		0.93
Shared Lame Traffic (%)   157   208   313   128   311   188   371   1048   79   100   983   107   1079   107   108   108   107   108   1													94
Lane Group Flow (vgh)  157		107	200	0.0	.20	011	100	0,1	1010	,,	100	700	, , ,
Turn type	, ,	157	208	313	128	311	188	371	1048	79	100	983	94
Protected Phases   3   8   1   7   4   5   1   6   7   5   2   Permitted Phases   3   8   1   7   4   5   1   6   7   5   2   Permitted Phases   3   8   1   7   4   5   1   6   7   5   2   Permitted Phases   3   8   1   7   4   5   1   6   7   5   2    Switch Phase   5   5   1   6   7   5   2    Switch Phase   5   5   1   6   7   5   2    Switch Phase   5   5   1   6   7   5   2    Switch Phase   5   5   1   6   7   5   2    Switch Phase   5   5   1   6   7   5   2    Switch Phase   5   5   1   6   7   5   5    Switch Phase   5   5   1   6   7   5   2    Switch Phase   5   5   1   6   7   5   2    Switch Phase   5   5   1   6   7   5   2    Switch Phase   5   5   1   6   7   5   2    Switch Phase   5   5   1   6   7   5   2    Switch Phase   5   5   1   6   7   5   2    Switch Phase   5   5   1   6   7   5   5    Switch Phase   5   5   1   6   7   5   5    Switch Phase   5   5   1   6   7   5   5    Switch Phase   5   5   1   6   7   5   5    Switch Phase   5   5   1   6   7   5   5    Switch Phase   5   5   1   6   7   5   5    Switch Phase   5   5   1   6   7   5   5    William Initial (s)   4.0   8.0   6.0   6.0   10.0   4.0   6.0   10.0    Minimum Initial (s)   4.0   8.0   6.0   4.0   4.0   4.0   4.1   4.1   4.1   4.1   39.4   4.1   4.4   4.3   4.1   4.4   4.1		Prot	NA	pm+ov	Prot	NA	pm+ov	Prot	NA	pm+ov	Prot	NA	pm+ov
Delector Phase   3   8   1   7   4   5   1   6   7   5   2		3	8	1	7	4		1	6	7	5	2	3
Switch Phase   Minimum Initial (s)	Permitted Phases			8			4			6			2
Minimum Initial (s)	Detector Phase	3	8	1	7	4	5	1	6	7	5	2	3
Minimus Spili (s) 11.1   15.5   14.1   11.2   16.4   14.4   14.1   39.4   11.2   14.4   43.7   1   1   1   1   1   1   1   1   1													
Total Split (s) 16,9% 23,8% 23,1% 16,9% 23,8% 13,8% 23,1% 45,6% 16,9% 13,8% 36,3% 13,9% 21,1% 45,6% 16,9% 13,8% 36,3% 13,9% 21,1% 45,6% 16,9% 13,8% 36,3% 13,6% 21,1% 45,6% 16,9% 13,6% 13,6% 23,1% 45,6% 16,9% 13,6% 36,3% 13,6% 21,1% 45,6% 16,9% 13,6% 36,3% 13,6% 21,1% 45,6% 16,9% 13,6% 36,3% 13	` ,												4.0
Total Spill (%) 16.9% 23.8% 23.1% 16.9% 23.8% 13.8% 23.1% 45.6% 16.9% 13.8% 36.3% 16.9% 19.8 30.5 28.9 19.8 29.6 13.6 28.9 65.6 19.8 13.6 50.3 1 Yellow Time (s) 3.7 4.0 4.4 3.7 4.0 4.4 4.4 4.8 3.7 4.4 4.8 3.7 4.4 4.8 3.7 4.0 0.4 4.4 4.4 4.8 3.7 4.0 2.9 Lost Time (s) 3.7 4.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0													11.1
Maximum Green (s)         19.9         30.5         28.9         19.8         29.6         13.6         28.9         65.6         19.8         13.6         50.3         1           Yellow Time (s)         3.7         4.0         4.4         3.7         4.0         4.4         4.8         3.5         4.0         2.9           Lost Time (s)         3.4         3.5         3.7         3.5         4.4         4.0         3.7         2.6         3.5         4.0         2.9           Lost Time Adjust (s)         0.0													27.0
Yellow Time (s)	1 ' '												16.9%
All-Red Time (s)													19.9
Lost Time Adjust (s)													3.7
Total Lost Time (s)													3.4
Lead/Lag         Lead         Lag         Lead         Lead         Lag         Lead         Lead         Lag         Lead         Lag         Lead         Lead         Lag         Lag <td></td> <td>0.0</td>													0.0
Lead-Lag Optimize?         Yes	` ,												7.1
Vehicle Extension (s)         4.0         4.0         3.0         4.0         3.0         3.0         3.0         5.0         4.0         3.0         5.0           Recall Mode         None         None         None         None         None         None         None         None         C-Max         None         None         Act         Act         Effct Green (s)         13.6         33.9         64.2         12.3         31.8         50.2         22.8         73.3         93.0         10.0         60.5         8         0.0         60.5         8         0.0         60.5         8         0.0         60.5         8         0.0         60.5         8         0.0         60.38         0.0													Lead Yes
Recall Mode         None         None         None         None         None         None         None         C-Max         None         C-Max         None         Act         Act         Act         Effct Green (s)         13.6         33.9         64.2         12.3         31.8         50.2         22.8         73.3         93.0         10.0         60.5         8           Actuated g/C Ratio         0.08         0.21         0.40         0.08         0.20         0.31         0.14         0.46         0.58         0.06         0.38         0         0         0         0.0													4.0
Act Effct Green (s) 13.6 33.9 64.2 12.3 31.8 50.2 22.8 73.3 93.0 10.0 60.5 8 Actuated g/C Ratio 0.08 0.21 0.40 0.08 0.20 0.31 0.14 0.46 0.58 0.06 0.38 0 v/c Ratio 0.54 0.53 0.45 0.49 0.84 0.32 0.76 0.45 0.08 0.47 0.51 0 Control Delay 76.8 60.9 25.4 76.7 81.6 13.2 76.0 31.2 2.0 79.1 40.9 Cueue Delay 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.													None
Actuated g/C Ratio 0.08 0.21 0.40 0.08 0.20 0.31 0.14 0.46 0.58 0.06 0.38 0 0													81.8
v/c Ratio         0.54         0.53         0.45         0.49         0.84         0.32         0.76         0.45         0.08         0.47         0.51         0           Control Delay         76.8         60.9         25.4         76.7         81.6         13.2         76.0         31.2         2.0         79.1         40.9           Queue Delay         0.0													0.51
Control Delay 76.8 60.9 25.4 76.7 81.6 13.2 76.0 31.2 2.0 79.1 40.9  Queue Delay 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.													0.11
Queue Delay         0.0 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.4</td></th<>													0.4
Total Delay 76.8 60.9 25.4 76.7 81.6 13.2 76.0 31.2 2.0 79.1 40.9  LOS E E E C E F B E C A E D  Approach Delay 48.2 60.1 40.8 40.8 40.9  Approach LOS D E E D D D  Queue Length 50th (ft) 82 191 163 67 309 38 195 280 0 53 297  Queue Length 95th (ft) 120 283 239 102 #467 102 231 319 15 84 371  Internal Link Dist (ft) 1451 1373 1927 1349  Turn Bay Length (ft) 240 925 230 225 250 250 250  Base Capacity (vph) 426 400 746 424 378 622 620 2330 1029 291 1923 9  Starvation Cap Reductn 0 0 0 0 0 0 0 0 0 0 0 0 0 0  Spillback Cap Reductn 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0													0.0
LOS         E         E         E         C         E         F         B         E         C         A         E         D           Approach Delay         48.2         60.1         40.8         40.9         40.0 <td></td> <td>0.4</td>													0.4
Approach Delay       48.2       60.1       40.8       40.9         Approach LOS       D       E       D       D         Queue Length 50th (ft)       82       191       163       67       309       38       195       280       0       53       297         Queue Length 95th (ft)       120       283       239       102       #467       102       231       319       15       84       371         Internal Link Dist (ft)       1451       1373       1927       1349         Turn Bay Length (ft)       240       925       230       225       250       250       25         Base Capacity (vph)       426       400       746       424       378       622       620       2330       1029       291       1923       9         Starvation Cap Reductn       0 <td>LOS</td> <td></td> <td>Α</td>	LOS												Α
Queue Length 50th (ft)     82     191     163     67     309     38     195     280     0     53     297       Queue Length 95th (ft)     120     283     239     102     #467     102     231     319     15     84     371       Internal Link Dist (ft)     1451     1373     1927     1349       Turn Bay Length (ft)     240     925     230     225     250     250     25       Base Capacity (vph)     426     400     746     424     378     622     620     2330     1029     291     1923     9       Starvation Cap Reductn     0     0     0     0     0     0     0     0     0     0       Spillback Cap Reductn     0						60.1						40.9	
Queue Length 95th (ft)     120     283     239     102     #467     102     231     319     15     84     371       Internal Link Dist (ft)     1451     1373     1927     1349       Turn Bay Length (ft)     240     925     230     225     250     250     25       Base Capacity (vph)     426     400     746     424     378     622     620     2330     1029     291     1923     93       Starvation Cap Reductn     0     0     0     0     0     0     0     0     0     0     0       Spillback Cap Reductn     0     0     0     0     0     0     0     0     0     0     0     0       Storage Cap Reductn     0     0     0     0     0     0     0     0     0     0     0     0     0       Reduced v/c Ratio     0     0.37     0.52     0.42     0.30     0.82     0.30     0.60     0.45     0.08     0.34     0.51     0       Intersection Summary	Approach LOS												
Internal Link Dist (ft)     1451     1373     1927     1349       Turn Bay Length (ft)     240     925     230     225     250     250     2       Base Capacity (vph)     426     400     746     424     378     622     620     2330     1029     291     1923     9       Starvation Cap Reductn     0     0     0     0     0     0     0     0     0     0     0       Spillback Cap Reductn     0     0     0     0     0     0     0     0     0     0     0     0     0     0       Storage Cap Reductn     0<	Queue Length 50th (ft)	82	191	163	67	309	38	195	280	0	53	297	0
Turn Bay Length (ft)     240     925     230     225     250     250     25       Base Capacity (vph)     426     400     746     424     378     622     620     2330     1029     291     1923     93       Starvation Cap Reductn     0     0     0     0     0     0     0     0     0     0     0       Spillback Cap Reductn     0     0     0     0     0     0     0     0     0     0     0     0     0     0       Storage Cap Reductn     0 <td>Queue Length 95th (ft)</td> <td>120</td> <td>283</td> <td>239</td> <td>102</td> <td>#467</td> <td>102</td> <td>231</td> <td>319</td> <td>15</td> <td>84</td> <td>371</td> <td>2</td>	Queue Length 95th (ft)	120	283	239	102	#467	102	231	319	15	84	371	2
Base Capacity (vph) 426 400 746 424 378 622 620 2330 1029 291 1923 93	Internal Link Dist (ft)		1451			1373			1927			1349	
Starvation Cap Reductn         0													225
Spillback Cap Reductn         0													938
Storage Cap Reductn         0													0
Reduced v/c Ratio       0.37       0.52       0.42       0.30       0.82       0.30       0.60       0.45       0.08       0.34       0.51       0         Intersection Summary         Area Type:       Other													0
Intersection Summary Area Type: Other													0
Area Type: Other	Reduced v/c Ratio	0.37	0.52	0.42	0.30	0.82	0.30	0.60	0.45	0.08	0.34	0.51	0.10
Area Type: Other	Intersection Summary												
		Other											
	Cycle Length: 160												

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Actuated Cycle Length: 160	
Offset: 158 (99%), Referenced to phase 2:SBT and 6:NBT, Start of Green	
Natural Cycle: 100	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.84	
Intersection Signal Delay: 45.1	Intersection LOS: D
Intersection Capacity Utilization 72.4%	ICU Level of Service C
Analysis Period (min) 15	
# 95th percentile volume exceeds capacity, queue may be longer.	
Queue shown is maximum after two cycles.	

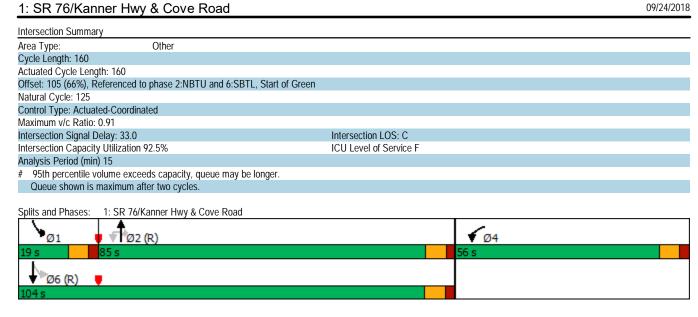




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	•	•	₽ſ	<b>†</b>	<b>/</b>	<b>\</b>	<b></b>
Lane Group	WBL	WBR	NBU	NBT	NBR	SBL	SBT
Lane Configurations	NDL KK	NOK		<u>ND1</u>	INDR 7	SDL T	<b>↑</b>
Traffic Volume (vph)	<b>1 1</b> 616	33	<b>1</b> 2	<b>TT</b> 1745	671	93	<b>TT</b> 1708
Future Volume (vph)	616	33	2	1745	671	93	1708
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	0	200	1700	400	150	1700
Storage Lanes	2	0	1		1	130	
Taper Length (ft)	25	U	100			150	
Lane Util. Factor	0.97	0.95	1.00	0.95	1.00	1.00	0.95
Frt	0.992	0.75	1.00	0.73	0.850	1.00	0.75
FIt Protected	0.955		0.950		0.000	0.950	
Satd. Flow (prot)	3423	0	1770	3539	1583	1770	3539
Flt Permitted	0.955	U	0.067	3337	1303	0.041	3337
Satd. Flow (perm)	3423	0	125	3539	1583	76	3539
Right Turn on Red	3423	Yes	120	3337	Yes	70	3339
Satd. Flow (RTOR)	4	162			544		
Link Speed (mph)	45			45	344		50
Link Speed (mpn) Link Distance (ft)	4142			2306			2132
Travel Time (s)	62.8			34.9			2132
		0.95	0.92	0.96	0.96	0.91	
Peak Hour Factor	0.95	0.95					0.91
Adj. Flow (vph)	648	35	2	1818	699	102	1877
Shared Lane Traffic (%)	/02	0	2	1010	/00	100	1077
Lane Group Flow (vph)	683	0	2 Dorm	1818	699	102	1877
Turn Type	Prot		Perm	NA	Perm	pm+pt	NA
Protected Phases	4		_	2		1	6
Permitted Phases			2	•	2	6	,
Detector Phase	4		2	2	2	1	6
Switch Phase							
Minimum Initial (s)	7.0		10.0	10.0	10.0	5.0	10.0
Minimum Split (s)	44.5		25.1	25.1	25.1	12.1	25.4
Total Split (s)	56.0		85.0	85.0	85.0	19.0	104.0
Total Split (%)	35.0%		53.1%	53.1%	53.1%	11.9%	65.0%
Maximum Green (s)	48.5		77.9	77.9	77.9	11.9	96.6
Yellow Time (s)	4.8		5.1	5.1	5.1	4.8	5.1
All-Red Time (s)	2.7		2.0	2.0	2.0	2.3	2.3
Lost Time Adjust (s)	0.0		0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.5		7.1	7.1	7.1	7.1	7.4
Lead/Lag			Lag	Lag	Lag	Lead	
Lead-Lag Optimize?			Yes	Yes	Yes	Yes	
Vehicle Extension (s)	3.0		3.0	3.0	3.0	3.0	3.0
Recall Mode	None		C-Max	C-Max	C-Max	None	C-Max
Walk Time (s)	5.0						
Flash Dont Walk (s)	32.0						
Pedestrian Calls (#/hr)	0						
Act Effct Green (s)	37.4		90.6	90.6	90.6	108.0	107.7
Actuated g/C Ratio	0.23		0.57	0.57	0.57	0.68	0.67
v/c Ratio	0.85		0.03	0.91	0.62	0.64	0.79
Control Delay	68.7		21.5	39.4	7.8	47.8	22.3
Queue Delay	0.0		0.0	0.0	0.0	0.0	0.0
Total Delay	68.7		21.5	39.4	7.8	47.8	22.3
LOS	E		C C	D	Α.	D	C
Approach Delay	68.7			30.6	, ,		23.6
Approach LOS	E			C			23.0 C
Queue Length 50th (ft)	354		1	858	81	53	676
Queue Length 95th (ft)	403		7	#1225	249	124	902
Internal Link Dist (ft)	4062		- 1	2226	27/	127	2052
Turn Bay Length (ft)	4002		200	2220	400	150	2002
Base Capacity (vph)	1040		70	2004	1132	184	2381
Starvation Cap Reductn	0		0	2004	0	0	2381
Spillback Cap Reductn	0		0	0	0	0	0
	0		0	0	0	0	0
Storage Cap Reductn Reduced v/c Ratio	0.66		0.03	0.91	0.62	0.55	0.79
BEIGH EU WERAHO	u.nn		0.03	U.9 I	0.02	0.00	0.79

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Cove Road Charter School Synchro 10 Report

	۶	<b>→</b>	*	•	<b>—</b>	4	1	<b>†</b>	<b>/</b>	<b>/</b>	<b></b>	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	14.54	•	7	14.54	<b>*</b>	7	14.54	<b>^</b>	7	14.54	<b>^</b> ^	7
Traffic Volume (vph)	114	336	360	146	227	182	417	1314	138	252	1090	122
Future Volume (vph)	114	336	360	146	227	182	417	1314	138	252	1090	122
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	240		925	230		0	225		250	250		225
Storage Lanes	2		1	2		1	2		1	2		1
Taper Length (ft)	100	1.00	1.00	100	1.00	1.00	50	0.01	1.00	100	0.01	1.00
Lane Util. Factor Frt	0.97	1.00	1.00 0.850	0.97	1.00	1.00 0.850	0.97	0.91	1.00 0.850	0.97	0.91	1.00 0.850
Flt Protected	0.950		0.630	0.950		0.650	0.950		0.000	0.950		0.630
Satd. Flow (prot)	3433	1863	1583	3433	1863	1583	3433	5085	1583	3433	5085	1583
Flt Permitted	0.950	1003	1303	0.950	1003	1303	0.950	3003	1303	0.950	3003	1303
Satd. Flow (perm)	3433	1863	1583	3433	1863	1583	3433	5085	1583	3433	5085	1583
Right Turn on Red	0.00	1000	Yes	0.00	1000	Yes	0.00	0000	Yes	0.00	0000	Yes
Satd. Flow (RTOR)			93			156			108			171
Link Speed (mph)		35			35			45			45	
Link Distance (ft)		1531			1453			2007			1429	
Travel Time (s)		29.8			28.3			30.4			21.7	
Peak Hour Factor	0.94	0.94	0.94	0.95	0.95	0.95	0.95	0.95	0.95	0.91	0.91	0.91
Adj. Flow (vph)	121	357	383	154	239	192	439	1383	145	277	1198	134
Shared Lane Traffic (%)												
Lane Group Flow (vph)	121	357	383	154	239	192	439	1383	145	277	1198	134
Turn Type	Prot	NA	pm+ov	Prot	NA	pm+ov	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	3	8	1	7	4	5	1	6	7	5	2	3
Permitted Phases			8	_		4			6	_		2
Detector Phase	3	8	1	7	4	5	1	6	7	5	2	3
Switch Phase	4.0	0.0	/ 0	4.0	0.0	/ 0		10.0	4.0		10.0	4.0
Minimum Initial (s)	4.0 11.1	8.0 15.5	6.0 14.1	4.0 11.2	8.0 16.4	6.0 14.4	6.0 14.1	10.0 39.4	4.0 11.2	6.0 14.4	10.0 43.7	4.0 11.1
Minimum Split (s)			37.0		36.0		37.0					
Total Split (s) Total Split (%)	22.0 15.7%	36.0 25.7%	26.4%	22.0 15.7%	25.7%	21.0 15.0%	26.4%	61.0 43.6%	22.0 15.7%	21.0 15.0%	45.0 32.1%	22.0 15.7%
Maximum Green (s)	14.9	28.5	28.9	14.8	27.6	12.6	28.9	53.6	14.8	12.6	37.3	14.9
Yellow Time (s)	3.7	4.0	4.4	3.7	4.0	4.4	4.4	4.8	3.7	4.4	4.8	3.7
All-Red Time (s)	3.4	3.5	3.7	3.5	4.4	4.0	3.7	2.6	3.5	4.0	2.9	3.4
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.1	7.5	8.1	7.2	8.4	8.4	8.1	7.4	7.2	8.4	7.7	7.1
Lead/Lag	Lead	Lag	Lead	Lead	Lag	Lead	Lead	Lag	Lead	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	4.0	4.0	3.0	4.0	4.0	3.0	3.0	5.0	4.0	3.0	5.0	4.0
Recall Mode	None	None	None	None	None	None	None	C-Max	None	None	C-Max	None
Act Effct Green (s)	11.3	29.6	60.7	12.4	30.0	51.1	23.5	54.7	74.5	12.8	44.0	62.9
Actuated g/C Ratio	0.08	0.21	0.43	0.09	0.21	0.36	0.17	0.39	0.53	0.09	0.31	0.45
v/c Ratio	0.44	0.91	0.52	0.51	0.60	0.28	0.76	0.70	0.16	0.89	0.75	0.17
Control Delay	66.0	80.7	23.6	66.6	56.9	8.6	64.3	38.2	5.4	91.6	47.6	1.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	66.0	80.7	23.6	66.6	56.9	8.6	64.3	38.2	5.4	91.6	47.6	1.8
LOS	E	F	С	E	Е	A	Е	D	А	F	D	A
Approach Delay		53.2			43.6			41.6			51.3	
Approach LOS		D	10/	70	D	01	100	D	1/	100	D	0
Queue Length 50th (ft)	55	317	186	70	196	21	198	388	16	130	366	0
Queue Length 95th (ft)	87	#518	272	106	295 1373	78	247	444 1927	49	#213	446	20
Internal Link Dist (ft)	240	1451	025	220	13/3		225	1927	250	250	1349	225
Turn Bay Length (ft) Base Capacity (vph)	240 365	396	925 <b>79</b> 5	230 362	398	677	225 708	1987	250 918	312	1596	225 842
Starvation Cap Reductn	0	390	795 0	302	398	0	708	1987	918	0	1596	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductin	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.33	0.90	0.48	0.43	0.60	0.28	0.62	0.70	0.16	0.89	0.75	0.16
	0.00	3.70	3.40	0.10	3.00	3.20	0.02	3.70	3.10	3.07	3.73	0.10
Intersection Summary												
Area Type:	Other											
Cycle Length: 140												

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Actuated Cycle Length: 140

Offset: 13 (9%), Referenced to phase 2:SBT and 6:NBT, Start of Green

Natural Cycle: 100

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.91

Intersection Signal Delay: 46.9

Intersection Capacity Utilization 80.2%

Analysis Period (min) 15

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

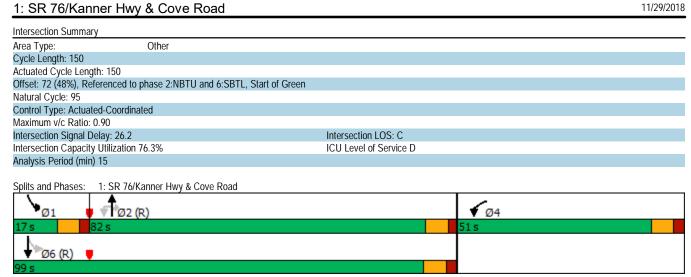
Splits and Phases: 3: US 1 & Cove Road



Cove Road Charter School

Synchro 10 Report

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Lane Group	WBL	WBR	NBU	NBT	NBR	SBL	SBT
Lane Configurations	***		<u>n</u>	<b>*</b>	7	ኝ	444
Traffic Volume (vph)	748	58	6	1561	550	49	1529
Future Volume (vph)	748	58	6	1561	550	49	1529
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	0	200		400	150	
Storage Lanes	2	0	1		1	1	
Taper Length (ft)	25		100			150	
Lane Util. Factor	0.97	0.95	1.00	0.91	1.00	1.00	0.91
Frt	0.989				0.850		
FIt Protected	0.956		0.950			0.950	
Satd. Flow (prot)	3417	0	1770	5085	1583	1770	5085
FIt Permitted	0.956		0.145			0.083	
Satd. Flow (perm)	3417	0	270	5085	1583	155	5085
Right Turn on Red		Yes			Yes		
Satd. Flow (RTOR)	5				585		
Link Speed (mph)	45			45			50
Link Distance (ft)	4142			2306			2132
Travel Time (s)	62.8			34.9			29.1
Peak Hour Factor	0.96	0.96	0.92	0.94	0.94	0.99	0.99
Adj. Flow (vph)	779	60	7	1661	585	49	1544
Shared Lane Traffic (%)							
Lane Group Flow (vph)	839	0	7	1661	585	49	1544
Turn Type	Prot		Perm	NA	Perm	pm+pt	NA
Protected Phases	4			2		1	6
Permitted Phases			2		2	6	
Detector Phase	4		2	2	2	1	6
Switch Phase							
Minimum Initial (s)	7.0		10.0	10.0	10.0	5.0	10.0
Minimum Split (s)	44.5		25.1	25.1	25.1	12.1	25.4
Total Split (s)	51.0		82.0	82.0	82.0	17.0	99.0
Total Split (%)	34.0%		54.7%	54.7%	54.7%	11.3%	66.0%
Maximum Green (s)	43.5		74.9	74.9	74.9	9.9	91.6
Yellow Time (s)	4.8		5.1	5.1	5.1	4.8	5.1
All-Red Time (s)	2.7		2.0	2.0	2.0	2.3	2.3
Lost Time Adjust (s)	0.0		0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.5		7.1	7.1	7.1	7.1	7.4
Lead/Lag			Lag	Lag	Lag	Lead	
Lead-Lag Optimize?			Yes	Yes	Yes	Yes	
Vehicle Extension (s)	3.0		3.0	3.0	3.0	3.0	3.0
Recall Mode	None		C-Max	C-Max	C-Max	None	C-Max
Walk Time (s)	5.0						
Flash Dont Walk (s)	32.0						
Pedestrian Calls (#/hr)	0						
Act Effct Green (s)	40.7		83.0	83.0	83.0	94.7	94.4
Actuated g/C Ratio	0.27		0.55	0.55	0.55	0.63	0.63
v/c Ratio	0.90		0.05	0.59	0.51	0.28	0.48
Control Delay	65.8		19.8	24.5	3.2	15.4	15.7
Queue Delay	0.0		0.0	0.0	0.0	0.0	0.0
Total Delay	65.8		19.8	24.5	3.2	15.4	15.7
LOS	Е		В	С	Α	В	В
Approach Delay	65.8			18.9			15.7
Approach LOS	Е			В			В
Queue Length 50th (ft)	401		3	410	0	18	290
Queue Length 95th (ft)	481		13	477	60	36	332
Internal Link Dist (ft)	4062			2226			2052
Turn Bay Length (ft)			200		400	150	
Base Capacity (vph)	994		149	2814	1137	204	3199
Starvation Cap Reductn	0		0	0	0	0	0
Spillback Cap Reductn	0		0	0	0	0	0
Storage Cap Reductn	0		0	0	0	0	0
Reduced v/c Ratio	0.84		0.05	0.59	0.51	0.24	0.48



Cove Road Charter School Synchro 10 Report

	•	-	•	•	<b>←</b>	•	4	<b>†</b>	_	-	<b>↓</b>	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	14.94	•	7	14.54	•	7	1,1	<b>^</b> ^	7	14.54	<b>^</b> ^	7
Traffic Volume (vph)	153	203	305	133	322	196	328	926	70	96	939	89
Future Volume (vph)	153	203	305	133	322	196	328	926	70	96	939	89
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	240		925	230		0	225		250	250		225
Storage Lanes	2		1	2		1	2		1	2		1
Taper Length (ft)	100			100			50			100		
Lane Util. Factor	0.97	1.00	1.00	0.97	1.00	1.00	0.97	0.91	1.00	0.97	0.91	1.00
Frt			0.850			0.850			0.850			0.850
FIt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	3433	1863	1583	3433	1863	1583	3433	5085	1583	3433	5085	1583
FIt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3433	1863	1583	3433	1863	1583	3433	5085	1583	3433	5085	1583
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			81			136			94			149
Link Speed (mph)		35			35			45			45	
Link Distance (ft)		1531			1453			2007			1429	
Travel Time (s)		29.8			28.3			30.4			21.7	
Peak Hour Factor	0.90	0.90	0.90	0.95	0.95	0.95	0.86	0.86	0.86	0.93	0.93	0.93
Adj. Flow (vph)	170	226	339	140	339	206	381	1077	81	103	1010	96
Shared Lane Traffic (%)												
Lane Group Flow (vph)	170	226	339	140	339	206	381	1077	81	103	1010	96
Turn Type	Prot	NA	pm+ov	Prot	NA	pm+ov	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	3	8	1	7	4	5	1	6	7	5	2	3
Permitted Phases			8			4			6			2
Detector Phase	3	8	1	7	4	5	1	6	7	5	2	3
Switch Phase												
Minimum Initial (s)	4.0	8.0	6.0	4.0	8.0	6.0	6.0	10.0	4.0	6.0	10.0	4.0
Minimum Split (s)	11.1	15.5	14.1	11.2	16.4	14.4	14.1	39.4	11.2	14.4	43.7	11.1
Total Split (s)	27.0	38.0	37.0	27.0	38.0	22.0	37.0	73.0	27.0	22.0	58.0	27.0
Total Split (%)	16.9%	23.8%	23.1%	16.9%	23.8%	13.8%	23.1%	45.6%	16.9%	13.8%	36.3%	16.9%
Maximum Green (s)	19.9	30.5	28.9	19.8	29.6	13.6	28.9	65.6	19.8	13.6	50.3	19.9
Yellow Time (s)	3.7	4.0	4.4	3.7	4.0	4.4	4.4	4.8	3.7	4.4	4.8	3.7
All-Red Time (s)	3.4	3.5	3.7	3.5	4.4	4.0	3.7	2.6	3.5	4.0	2.9	3.4
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.1	7.5	8.1	7.2	8.4	8.4	8.1	7.4	7.2	8.4	7.7	7.1
Lead/Lag	Lead	Lag	Lead	Lead	Lag	Lead	Lead	Lag	Lead	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	4.0	4.0	3.0	4.0	4.0	3.0	3.0	5.0	4.0	3.0	5.0	4.0
Recall Mode	None	None	None	None	None	None	None	C-Max	None	None	C-Max	None
Act Effct Green (s)	14.2	36.4	67.1	12.8	34.2	52.8	23.2	70.2	90.4	10.2	57.1	79.0
Actuated g/C Ratio	0.09	0.23	0.42	0.08	0.21	0.33	0.14	0.44	0.56	0.06	0.36	0.49
v/c Ratio	0.56	0.53	0.48	0.51	0.85	0.34	0.77	0.48	0.09	0.47	0.56	0.11
Control Delay	76.8	59.9	27.0	76.8	80.4	15.2	75.9	33.4	2.2	79.2	43.6	0.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	76.8	59.9	27.0	76.8	80.4	15.2	75.9	33.4	2.2	79.2	43.6	0.6
LOS	E	Е	С	Е	F	В	Е	С	Α	Е	D	А
Approach Delay		48.6			60.1			42.3			43.2	
Approach LOS		D			E			D			D	
Queue Length 50th (ft)	89	208	192	73	342	51	201	295	0	54	313	0
Queue Length 95th (ft)	128	308	278	109	#543	121	236	330	16	87	384	3
Internal Link Dist (ft)	.23	1451			1373			1927		<u> </u>	1349	
Turn Bay Length (ft)	240	01	925	230	.070		225	.,_,	250	250		225
Base Capacity (vph)	426	423	764	424	398	644	620	2229	1000	291	1814	908
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.40	0.53	0.44	0.33	0.85	0.32	0.61	0.48	0.08	0.35	0.56	0.11
	0.40	0.00	U. TT	0.55	0.00	0.32	0.01	0.70	0.00	0.00	0.00	0.11
Intersection Summary												
Area Type:	Other											
Cycle Length: 160												

Actuated Cycle Length: 160 Offset: 158 (99%), Referenced to phase 2:SBT and 6:NBT, Start of Green Natural Cycle: 100 Control Type: Actuated-Coordinated Maximum v/c Ratio: 0.85 Intersection Signal Delay: 46.6 Intersection Capacity Utilization 74.9% Intersection LOS: D ICU Level of Service D Analysis Period (min) 15

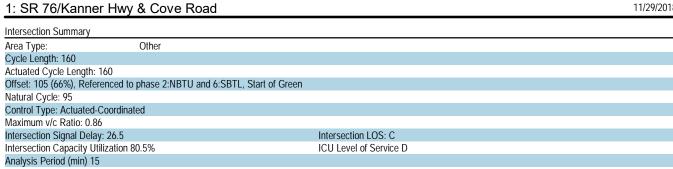
# 95th percentile volume exceeds capacity, queue may be longer.

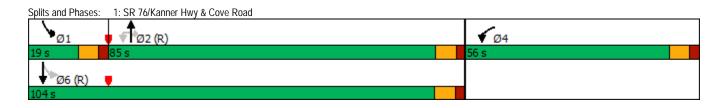
Queue shown is maximum after two cycles.



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Lane Group	WBL	WBR	NBU	NBT	NBR	SBL	SBT
Lane Configurations	***		ם	***	7	<u> </u>	***
Traffic Volume (vph)	661	35	2	1874	720	96	1755
Future Volume (vph)	661	35	2	1874	720	96	1755
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	0	200	1700	400	150	1700
Storage Lanes	2	0	1		1	130	
Taper Length (ft)	25		100		•	150	
Lane Util. Factor	0.97	0.95	1.00	0.91	1.00	1.00	0.91
Frt	0.992	0.70	1100	0171	0.850	1100	0.71
Flt Protected	0.955		0.950		0.000	0.950	
Satd. Flow (prot)	3423	0	1770	5085	1583	1770	5085
FIt Permitted	0.955		0.090			0.050	
Satd. Flow (perm)	3423	0	168	5085	1583	93	5085
Right Turn on Red		Yes			Yes		
Satd. Flow (RTOR)	4				750		
Link Speed (mph)	45			45			50
Link Distance (ft)	4142			2306			2132
Travel Time (s)	62.8			34.9			29.1
Peak Hour Factor	0.95	0.95	0.92	0.96	0.96	0.91	0.91
Adj. Flow (vph)	696	37	2	1952	750	105	1929
Shared Lane Traffic (%)	070	31		1702	700	100	1727
Lane Group Flow (vph)	733	0	2	1952	750	105	1929
Turn Type	Prot		Perm	NA	Perm	pm+pt	NA
Protected Phases	4		7 01111	2	7 01111	ριτιτρι 1	6
Permitted Phases	7		2		2	6	
Detector Phase	4		2	2	2	1	6
Switch Phase	7						U
Minimum Initial (s)	7.0		10.0	10.0	10.0	5.0	10.0
Minimum Split (s)	44.5		25.1	25.1	25.1	12.1	25.4
Total Split (s)	56.0		85.0	85.0	85.0	19.0	104.0
Total Split (%)	35.0%		53.1%	53.1%	53.1%	11.9%	65.0%
Maximum Green (s)	48.5		77.9	77.9	77.9	11.976	96.6
Yellow Time (s)	46.5		5.1	5.1	5.1	4.8	5.1
All-Red Time (s)	2.7		2.0	2.0	2.0	2.3	2.3
Lost Time Adjust (s)	0.0		0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.5		7.1	7.1	7.1	7.1	7.4
Lead/Lag	1.5		Lag	Lag	Lag	Lead	7.4
Lead-Lag Optimize?			Yes	Yes	Yes	Yes	
Vehicle Extension (s)	3.0		3.0	3.0	3.0	3.0	3.0
Recall Mode	None		C-Max	C-Max	C-Max		C-Max
Walk Time (s)	5.0		C-IVIAX	C-IVIAX	C-IVIAX	None	C-IVIAX
. ,	32.0						
Flash Dont Walk (s)							
Pedestrian Calls (#/hr)	20.0		00 E	00 E	00 E	10F /	105.2
Act Effet Green (s)	39.8		88.5	88.5	88.5	105.6	105.3
Actuated g/C Ratio	0.25		0.55	0.55	0.55	0.66	0.66
v/c Ratio	0.86		0.02	0.69	0.62	0.63	0.58
Control Delay	67.6		21.5	28.7	3.9	42.2	16.5
Queue Delay	0.0		0.0	0.0	0.0	0.0	0.0
Total Delay	67.6		21.5	28.7	3.9	42.2	16.5
LOS	E		С	С	Α	D	В
Approach Delay	67.6			21.9			17.8
Approach LOS	E			С			В
Queue Length 50th (ft)	379		1	527	0	46	383
Queue Length 95th (ft)	429		7	674	69	120	490
Internal Link Dist (ft)	4062			2226			2052
Turn Bay Length (ft)			200		400	150	
Base Capacity (vph)	1040		92	2813	1210	189	3346
Starvation Cap Reductn	0		0	0	0	0	0
Spillback Cap Reductn	0		0	0	0	0	0
Storage Cap Reductn	0		0	0	0	0	0
Reduced v/c Ratio	0.70		0.02	0.69	0.62	0.56	0.58

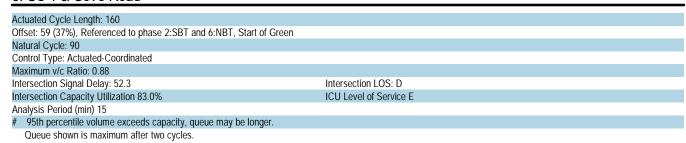


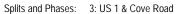


Cove Road Charter School Synchro 10 Report

	۶	<b>→</b>	•	•	<b>←</b>	4	1	<b>†</b>	<b>/</b>	<b>\</b>	ţ	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	16.56	•	7	14.54	•	7	16.56	<b>^</b> ^	7	16.54	<b>^</b> ^	7
Traffic Volume (vph)	123	364	390	160	248	199	428	1350	142	259	1120	125
Future Volume (vph)	123	364	390	160	248	199	428	1350	142	259	1120	125
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	240		925	230		0	225		250	250		225
Storage Lanes	2		1	2		1	2		1	2		1
Taper Length (ft)	100			100			50			100		
Lane Util. Factor	0.97	1.00	1.00	0.97	1.00	1.00	0.97	0.91	1.00	0.97	0.91	1.00
Frt			0.850			0.850			0.850			0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	3433	1863	1583	3433	1863	1583	3433	5085	1583	3433	5085	1583
FIt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3433	1863	1583	3433	1863	1583	3433	5085	1583	3433	5085	1583
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			81			130			142			117
Link Speed (mph)		35			35			45			45	
Link Distance (ft)		1531			1453			2007			1429	
Travel Time (s)		29.8			28.3			30.4			21.7	
Peak Hour Factor	0.94	0.94	0.94	0.95	0.95	0.95	0.95	0.95	0.95	0.91	0.91	0.91
Adj. Flow (vph)	131	387	415	168	261	209	451	1421	149	285	1231	137
Shared Lane Traffic (%)												
Lane Group Flow (vph)	131	387	415	168	261	209	451	1421	149	285	1231	137
Turn Type	Prot	NA	pm+ov	Prot	NA	pm+ov	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	3	8	1	7	4	5	1	6	7	5	2	3
Permitted Phases			8			4			6			2
Detector Phase	3	8	1	7	4	5	1	6	7	5	2	3
Switch Phase												
Minimum Initial (s)	4.0	8.0	6.0	4.0	8.0	6.0	6.0	10.0	4.0	6.0	10.0	4.0
Minimum Split (s)	11.1	15.5	14.1	11.2	16.4	14.4	14.1	17.4	11.2	14.4	17.7	11.1
Total Split (s)	35.0	49.0	28.0	24.0	38.0	23.0	28.0	64.0	24.0	23.0	59.0	35.0
Total Split (%)	21.9%	30.6%	17.5%	15.0%	23.8%	14.4%	17.5%	40.0%	15.0%	14.4%	36.9%	21.9%
Maximum Green (s)	27.9	41.5	19.9	16.8	29.6	14.6	19.9	56.6	16.8	14.6	51.3	27.9
Yellow Time (s)	3.7	4.0	4.4	3.7	4.0	4.4	4.4	4.8	3.7	4.4	4.8	3.7
All-Red Time (s)	3.4	3.5	3.7	3.5	4.4	4.0	3.7	2.6	3.5	4.0	2.9	3.4
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.1	7.5	8.1	7.2	8.4	8.4	8.1	7.4	7.2	8.4	7.7	7.1
Lead/Lag	Lead	Lag	Lead	Lead	Lag	Lead	Lead	Lag	Lead	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	4.0	4.0	3.0	4.0	4.0	3.0	3.0	5.0	4.0	3.0	5.0	4.0
Recall Mode	None	None	None	None	None	None	None	C-Max	None	None	C-Max	None
Act Effct Green (s)	12.4	37.8	70.3	13.9	38.5	63.2	25.0	61.4	82.7	16.3	52.8	72.9
Actuated g/C Ratio	0.08	0.24	0.44	0.09	0.24	0.40	0.16	0.38	0.52	0.10	0.33	0.46
v/c Ratio	0.49	0.88	0.56	0.56	0.58	0.30	0.84	0.73	0.17	0.81	0.73	0.17
Control Delay	76.7	79.9	29.7	77.3	58.7	12.8	79.3	45.8	3.9	87.9	50.9	6.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	76.7	79.9	29.7	77.3	58.7	12.8	79.3	45.8	3.9	87.9	50.9	6.2
LOS	E	Е	С	E	Е	В	Е	D	А	F	D	A
Approach Delay		57.1			48.6			50.2			53.6	
Approach LOS		Е			D			D			D	
Queue Length 50th (ft)	69	388	254	88	239	50	240	489	4	150	424	12
Queue Length 95th (ft)	104	#521	378	127	333	115	#381	549	42	#243	482	51
Internal Link Dist (ft)		1451			1373			1927			1349	
Turn Bay Length (ft)	240		925	230			225		250	250		225
Base Capacity (vph)	598	486	741	360	448	704	536	1952	913	350	1676	926
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.22	0.80	0.56	0.47	0.58	0.30	0.84	0.73	0.16	0.81	0.73	0.15
Intersection Summary												
Area Type:	Other											
Cycle Length: 160	Othor											
- Longin. 100												

11/20/2010

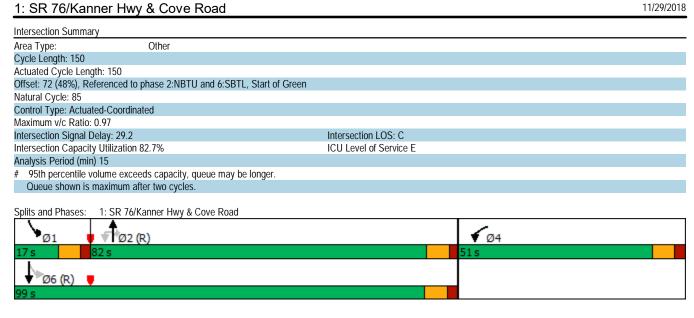






Cove Road Charter School Synchro 10 Report

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Lane Group	WBL	WBR	NBU	NBT	NBR	SBL	SBT
Lane Configurations	**		<u>n</u>	***	7	ኝ	***
Traffic Volume (vph)	860	63	6	1561	676	55	1529
Future Volume (vph)	860	63	6	1561	676	55	1529
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	0	200		400	150	
Storage Lanes	2	0	1		1	1	
Taper Length (ft)	25		100			150	
Lane Util. Factor	0.97	0.95	1.00	0.91	1.00	1.00	0.91
Frt	0.990				0.850		
Flt Protected	0.956		0.950			0.950	
Satd. Flow (prot)	3420	0	1770	5085	1583	1770	5085
Flt Permitted	0.956	_	0.143			0.083	
Satd. Flow (perm)	3420	0	266	5085	1583	155	5085
Right Turn on Red		Yes			Yes		
Satd. Flow (RTOR)	5				704		
Link Speed (mph)	45			45			50
Link Distance (ft)	4142			2306			2132
Travel Time (s)	62.8	0.07	0.00	34.9	0.07	0.00	29.1
Peak Hour Factor	0.96	0.96	0.92	0.96	0.96	0.99	0.99
Adj. Flow (vph)	896	66	7	1626	704	56	1544
Shared Lane Traffic (%)	0/2	0	7	1/0/	704	Γ/	1544
Lane Group Flow (vph)	962 Prot	0	7 Porm	1626	704 Porm	56	1544
Turn Type	Prot		Perm	NA 2	Perm	pm+pt	NA
Protected Phases Permitted Phases	4		2	2	2	I	6
Detector Phases	4		2	2	2	6	6
Switch Phase	4		Z	Z	Z		U
Minimum Initial (s)	7.0		10.0	10.0	10.0	5.0	10.0
Minimum Split (s)	44.5		25.1	25.1	25.1	12.1	25.4
Total Split (s)	51.0		82.0	82.0	82.0	17.0	99.0
Total Split (%)	34.0%		54.7%	54.7%	54.7%	11.3%	66.0%
Maximum Green (s)	43.5		74.9	74.9	74.9	9.9	91.6
Yellow Time (s)	43.3		5.1	5.1	5.1	4.8	5.1
All-Red Time (s)	2.7		2.0	2.0	2.0	2.3	2.3
Lost Time Adjust (s)	0.0		0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.5		7.1	7.1	7.1	7.1	7.4
Lead/Lag	1.5		Lag	Lag	Lag	Lead	7.7
Lead-Lag Optimize?			Yes	Yes	Yes	Yes	
Vehicle Extension (s)	3.0		3.0	3.0	3.0	3.0	3.0
Recall Mode	None		C-Max	C-Max	C-Max	None	C-Max
Walk Time (s)	5.0		O WIGH	O Max	O Max	NOTIC	UIVIGA
Flash Dont Walk (s)	32.0						
Pedestrian Calls (#/hr)	0						
Act Effct Green (s)	43.4		80.1	80.1	80.1	92.0	91.7
Actuated g/C Ratio	0.29		0.53	0.53	0.53	0.61	0.61
v/c Ratio	0.97		0.05	0.60	0.60	0.32	0.50
Control Delay	74.0		20.0	25.8	3.7	16.6	17.0
Queue Delay	0.0		0.0	0.0	0.0	0.0	0.0
Total Delay	74.0		20.0	25.8	3.7	16.6	17.0
LOS	F E		В	C C	Α.	В	В
Approach Delay	74.0			19.1	,,		17.0
Approach LOS	74.0 E			В			В
Queue Length 50th (ft)	478		3	404	0	21	295
Queue Length 95th (ft)	#620		13	465	63	40	332
Internal Link Dist (ft)	4062			2226			2052
Turn Bay Length (ft)	7002		200	2220	400	150	2002
Base Capacity (vph)	995		142	2716	1173	201	3108
Starvation Cap Reductn	0		0	0	0	0	0
Spillback Cap Reductn	0		0	0	0	0	0
Storage Cap Reductn	0		0	0	0	0	0
Reduced v/c Ratio	0.97		0.05	0.60	0.60	0.28	0.50
	0.77		3.30	3.30	5.50	5.20	5.00

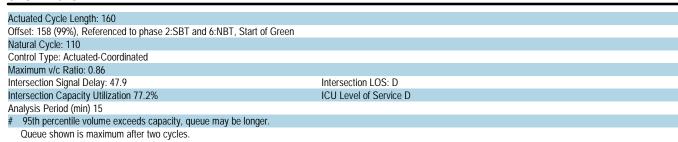


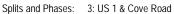
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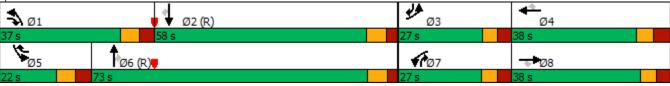
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	٠	<b>→</b>	*	•	+	•	1	<b>†</b>	~	<b>\</b>	<b></b>	- ✓
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	14.34	<b>*</b>	7	14.54	<b>*</b>	7	16.54	<b>^</b> ^	7	16.56	<b>^</b> ^	7
Traffic Volume (vph)	158	214	353	133	334	196	382	926	70	96	939	95
Future Volume (vph)	158	214	353	133	334	196	382	926	70	96	939	95
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	240		925	230		0	225		250	250		225
Storage Lanes	2		1	2		1	2		1	2		1
Taper Length (ft)	100			100			50			100		
Lane Util. Factor	0.97	1.00	1.00	0.97	1.00	1.00	0.97	0.91	1.00	0.97	0.91	1.00
Frt			0.850			0.850			0.850			0.850
FIt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	3433	1863	1583	3433	1863	1583	3433	5085	1583	3433	5085	1583
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3433	1863	1583	3433	1863	1583	3433	5085	1583	3433	5085	1583
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			81			136			94			149
Link Speed (mph)		35			35			45			45	
Link Distance (ft)		1531			1453			2007			1429	
Travel Time (s)		29.8			28.3			30.4			21.7	
Peak Hour Factor	0.90	0.90	0.90	0.95	0.95	0.95	0.86	0.86	0.86	0.93	0.93	0.93
Adj. Flow (vph)	176	238	392	140	352	206	444	1077	81	103	1010	102
Shared Lane Traffic (%)												
Lane Group Flow (vph)	176	238	392	140	352	206	444	1077	81	103	1010	102
Turn Type	Prot	NA	pm+ov									
Protected Phases	3	8	1	7	4	5	1	6	7	5	2	3
Permitted Phases	2	0	8	7		4	1	,	6	_	0	2
Detector Phase	3	8	1	7	4	5	1	6	7	5	2	3
Switch Phase	4.0	0.0	/ 0	4.0	0.0	/ 0		10.0	4.0		10.0	4.0
Minimum Initial (s)	4.0	8.0	6.0	4.0	8.0	6.0	6.0	10.0	4.0	6.0	10.0	4.0
Minimum Split (s)	11.1 27.0	15.5 38.0	14.1 37.0	11.2 27.0	16.4 38.0	14.4 22.0	14.1 37.0	39.4 73.0	11.2 27.0	14.4 22.0	43.7 58.0	11.1 27.0
Total Split (s)	16.9%	23.8%	23.1%	16.9%	23.8%	13.8%	23.1%	45.6%	16.9%	13.8%	36.3%	16.9%
Total Split (%) Maximum Green (s)	19.9	30.5	28.9	19.8	29.6	13.6	28.9	65.6	19.8	13.6	50.3	19.9
Yellow Time (s)	3.7	4.0	4.4	3.7	4.0	4.4	4.4	4.8	3.7	4.4	4.8	3.7
All-Red Time (s)	3.4	3.5	3.7	3.5	4.4	4.0	3.7	2.6	3.7	4.0	2.9	3.4
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.1	7.5	8.1	7.2	8.4	8.4	8.1	7.4	7.2	8.4	7.7	7.1
Lead/Lag	Lead	Lag	Lead									
Lead-Lag Optimize?	Yes											
Vehicle Extension (s)	4.0	4.0	3.0	4.0	4.0	3.0	3.0	5.0	4.0	3.0	5.0	4.0
Recall Mode	None	C-Max	None	None	C-Max	None						
Act Effct Green (s)	14.5	37.5	70.8	12.8	35.0	53.6	25.8	69.0	89.2	10.2	53.4	75.6
Actuated g/C Ratio	0.09	0.23	0.44	0.08	0.22	0.34	0.16	0.43	0.56	0.06	0.33	0.47
v/c Ratio	0.57	0.55	0.53	0.51	0.86	0.33	0.80	0.49	0.09	0.47	0.59	0.12
Control Delay	76.7	59.9	28.0	76.8	81.1	15.2	76.2	34.0	2.2	79.2	46.5	0.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	76.7	59.9	28.0	76.8	81.1	15.2	76.2	34.0	2.2	79.2	46.5	0.9
LOS	Е	Е	С	Е	F	В	Е	С	А	Е	D	Α
Approach Delay		48.0			60.8			44.1			45.4	
Approach LOS		D			Е			D			D	
Queue Length 50th (ft)	92	221	232	73	359	51	232	295	0	54	325	0
Queue Length 95th (ft)	132	324	340	109	#575	122	276	330	16	87	384	8
Internal Link Dist (ft)		1451			1373			1927			1349	
Turn Bay Length (ft)	240		925	230			225		250	250		225
Base Capacity (vph)	426	436	774	424	407	651	620	2194	989	291	1698	875
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.41	0.55	0.51	0.33	0.86	0.32	0.72	0.49	0.08	0.35	0.59	0.12
Intersection Summary												
Area Type:	Other											
Cycle Length: 160	Other											
Cycle Length. 100												

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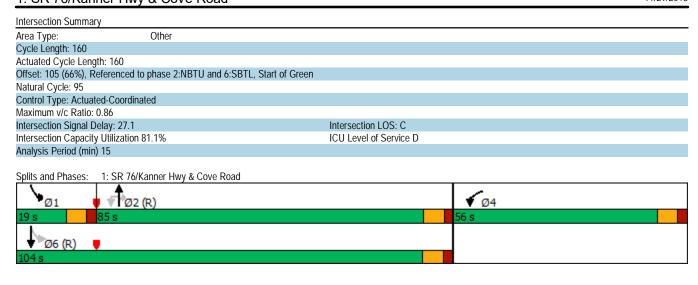




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Intersection												
Int Delay, s/veh	2.1											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	*	<b></b>	7	ች	<b></b>	7	,,,,,,	4	7	002	4	7
Traffic Vol, veh/h	18	588	205	367	806	6	182	27	326	54	30	19
Future Vol, veh/h	18	588	205	367	806	6	182	27	326	54	30	19
Conflicting Peds, #/hr	0	0	0	0	000	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	1166	-	None	1166	-	None	310p -	- -	None	- -	310p	None
Storage Length	290	-	290	290	-	300		-	0	-		0
Veh in Median Storage, #	270	0	270	270	0	300		0	-	-	0	U
Grade, %		0		-	0	-		0	-	-	0	
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mymt Flow	20	639	223	399	876	7	198	29	354	59	33	21
IVIVIIIL I IUW	20	039	223	377	070	1	170	29	334	37	აა	21
Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	883	0	0	862	0	0	2384	2360	639	2656	2576	876
Stage 1	-	-	-	-	-	-	679	679	-	1674	1674	-
Stage 2	-	-	-	-	-	-	1705	1681	-	982	902	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	766	-	-	780	-	-	~ 24	35	476	~ 15	~ 26	348
Stage 1	-	-	-	-	-	-	441	451	-	121	152	-
Stage 2	-	-	-	-	-	-	~ 116	151	-	300	356	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	766	-	-	780	-	-	-	~ 17	476	-	~ 12	348
Mov Cap-2 Maneuver	-	-	-	-	-	-	-	~ 17	-	-	~ 12	-
Stage 1	-	-	-	-	-	-	430	439	-	118	74	-
Stage 2	-	-	-	-	-	-	~ 30	74	-	70	347	-
, 												
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.2			4.5						- 55		
HCM LOS	0.2			4.0			_			_		
HOW EOS												
Minor Lane/Major Mvmt		NBLn1	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1	SBLn2	
Capacity (veh/h)			476	766	-	-	780	-	-	-	348	
HCM Lane V/C Ratio		-	0.744	0.026	-	-	0.511	-	-	-	0.059	
HCM Control Delay (s)		-	31.5	9.8	_	_	14.3	_	-	-	16	
HCM Lane LOS		_	D D	Α.	-	-	В	-	_	-	C	
HCM 95th %tile Q(veh)		-	6.2	0.1	-	-	3	-	-	-	0.2	
Notes	, ¢. D.	olov oves	ada 200a	C	mnutati-	Not Def	inad *	. All me!=	r volum -	in plates	_	
<ul> <li>Volume exceeds capacity</li> </ul>	\$: De	eiay exce	eds 300s	+: C0I	mputation	n Not Def	inea ^	: Ali majo	i voiume	in platoo	n	

	•	•	₹I	<b>†</b>	-	-	Ţ
Lana Croun	WDL	WDD		NDT	,	CDI	CDT
Lane Group	WBL	WBR	NBU	NBT	NBR	SBL	SBT
Lane Configurations Traffic Volume (vph)	<b>***</b>	36	<b>1</b> 2	<b>^^^</b>	720	<b>ነ</b>	<b>★↑</b> 1755
Future Volume (vph)	680 680	36 36	2	1874 1874	730 730	96 96	1755
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1755
Storage Length (ft)	0	0	200	1900	400	150	1900
Storage Lanes	2	0	1		1	130	
Taper Length (ft)	25	U	100			150	
Lane Util. Factor	0.97	0.95	1.00	0.91	1.00	1.00	0.91
Frt	0.992	0.70	1100	0.7.	0.850	1100	0171
Flt Protected	0.955		0.950			0.950	
Satd. Flow (prot)	3423	0	1770	5085	1583	1770	5085
FIt Permitted	0.955		0.089			0.049	
Satd. Flow (perm)	3423	0	166	5085	1583	91	5085
Right Turn on Red		Yes			Yes		
Satd. Flow (RTOR)	3				760		
Link Speed (mph)	45			45			50
Link Distance (ft)	4142			2306			2132
Travel Time (s)	62.8			34.9			29.1
Peak Hour Factor	0.95	0.95	0.92	0.96	0.96	0.91	0.91
Adj. Flow (vph)	716	38	2	1952	760	105	1929
Shared Lane Traffic (%)							
Lane Group Flow (vph)	754	0	2	1952	760	105	1929
Turn Type	Prot		Perm	NA	Perm	pm+pt	NA
Protected Phases	4			2		1	6
Permitted Phases			2		2	6	
Detector Phase	4		2	2	2	1	6
Switch Phase							
Minimum Initial (s)	7.0		10.0	10.0	10.0	5.0	10.0
Minimum Split (s)	44.5		25.1	25.1	25.1	12.1	25.4
Total Split (s)	56.0		85.0	85.0	85.0	19.0	104.0
Total Split (%)	35.0%		53.1%	53.1%	53.1%	11.9%	65.0%
Maximum Green (s)	48.5		77.9	77.9	77.9	11.9	96.6
Yellow Time (s)	4.8		5.1	5.1	5.1	4.8	5.1
All-Red Time (s)	2.7		2.0	2.0	2.0	2.3	2.3
Lost Time Adjust (s)	0.0		0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.5		7.1	7.1	7.1	7.1	7.4
Lead/Lag			Lag	Lag	Lag	Lead	
Lead-Lag Optimize?			Yes	Yes	Yes	Yes	
Vehicle Extension (s)	3.0		3.0	3.0	3.0	3.0	3.0
Recall Mode	None		C-Max	C-Max	C-Max	None	C-Max
Walk Time (s)	5.0						
Flash Dont Walk (s)	32.0						
Pedestrian Calls (#/hr)	0				_		
Act Effct Green (s)	40.9		87.6	87.6	87.6	104.5	104.2
Actuated g/C Ratio	0.26		0.55	0.55	0.55	0.65	0.65
v/c Ratio	0.86		0.02	0.70	0.63	0.65	0.58
Control Delay	66.9		21.5	29.4	4.0	44.7	17.2
Queue Delay	0.0		0.0	0.0	0.0	0.0	0.0
Total Delay	66.9		21.5	29.4	4.0	44.7	17.2
LOS	E		С	С	Α	D	В
Approach Delay	66.9			22.3			18.6
Approach LOS	E			С			В
Queue Length 50th (ft)	388		1	539	0	48	396
Queue Length 95th (ft)	440		7	674	70	123	498
Internal Link Dist (ft)	4062			2226			2052
Turn Bay Length (ft)			200		400	150	
Base Capacity (vph)	1039		90	2783	1210	185	3311
Starvation Cap Reductn	0		0	0	0	0	0
Spillback Cap Reductn	0		0	0	0	0	0
			0	0	0	0	0
Storage Cap Reductn Reduced v/c Ratio	0 0.73		0.02	0.70	0.63	0.57	0.58



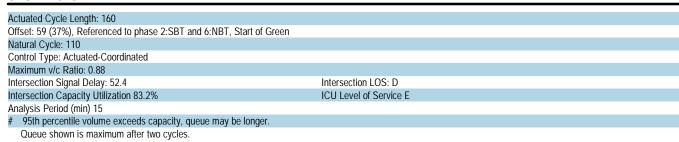
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	•	<b>→</b>	•	•	<b>←</b>	•	4	<b>†</b>	_	<b>\</b>	<b>↓</b>	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	16.16	•	7	14.54	<b>*</b>	7	1,1	<b>^</b>	7	14.54	<b>^^</b>	7
Traffic Volume (vph)	124	366	398	160	249	199	432	1350	142	259	1120	125
Future Volume (vph)	124	366	398	160	249	199	432	1350	142	259	1120	125
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	240		925	230		0	225		250	250		225
Storage Lanes	2		1	2		1	2		1	2		1
Taper Length (ft)	100			100			50			100		
Lane Util. Factor	0.97	1.00	1.00	0.97	1.00	1.00	0.97	0.91	1.00	0.97	0.91	1.00
Frt			0.850			0.850			0.850			0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	3433	1863	1583	3433	1863	1583	3433	5085	1583	3433	5085	1583
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3433	1863	1583	3433	1863	1583	3433	5085	1583	3433	5085	1583
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			81			130			142			116
Link Speed (mph)		35			35			45			45	
Link Distance (ft)		1531			1453			2007			1429	
Travel Time (s)		29.8			28.3			30.4			21.7	
Peak Hour Factor	0.94	0.94	0.94	0.95	0.95	0.95	0.95	0.95	0.95	0.91	0.91	0.91
Adj. Flow (vph)	132	389	423	168	262	209	455	1421	149	285	1231	137
Shared Lane Traffic (%)												
Lane Group Flow (vph)	132	389	423	168	262	209	455	1421	149	285	1231	137
Turn Type	Prot	NA	pm+ov	Prot	NA	pm+ov	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	3	8	1	7	4	5	1	6	7	5	2	3
Permitted Phases			8			4			6			2
Detector Phase	3	8	1	7	4	5	1	6	7	5	2	3
Switch Phase												
Minimum Initial (s)	4.0	8.0	6.0	4.0	8.0	6.0	6.0	10.0	4.0	6.0	10.0	4.0
Minimum Split (s)	11.1	15.5	14.1	11.2	16.4	14.4	14.1	39.4	11.2	14.4	43.7	11.1
Total Split (s)	35.0	49.0	28.0	24.0	38.0	23.0	28.0	64.0	24.0	23.0	59.0	35.0
Total Split (%)	21.9%	30.6%	17.5%	15.0%	23.8%	14.4%	17.5%	40.0%	15.0%	14.4%	36.9%	21.9%
Maximum Green (s)	27.9	41.5	19.9	16.8	29.6	14.6	19.9	56.6	16.8	14.6	51.3	27.9
Yellow Time (s)	3.7	4.0	4.4	3.7	4.0	4.4	4.4	4.8	3.7	4.4	4.8	3.7
All-Red Time (s)	3.4	3.5	3.7	3.5	4.4	4.0	3.7	2.6	3.5	4.0	2.9	3.4
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.1	7.5	8.1	7.2	8.4	8.4	8.1	7.4	7.2	8.4	7.7	7.1
Lead/Lag	Lead	Lag	Lead	Lead	Lag	Lead	Lead	Lag	Lead	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	4.0	4.0	3.0	4.0	4.0	3.0	3.0	5.0	4.0	3.0	5.0	4.0
Recall Mode	None	None	None	None	None	None	None	C-Max	None	None	C-Max	None
Act Effct Green (s)	12.5	37.9	70.6	13.9	38.6	63.3	25.1	61.4	82.7	16.3	52.5	72.7
Actuated g/C Ratio	0.08	0.24	0.44	0.09	0.24	0.40	0.16	0.38	0.52	0.10	0.33	0.45
v/c Ratio	0.49	0.88	0.57	0.56	0.58	0.30	0.84	0.73	0.17	0.82	0.74	0.18
Control Delay	76.7	80.0	30.0	77.3	58.8	12.8	79.5	45.8	3.9	88.2	51.1	6.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	76.7	80.0	30.0	77.3	58.8	12.8	79.5	45.8	3.9	88.2	51.1	6.3
LOS	E	Е	С	Е	Е	В	Е	D	Α	F	D	Α
Approach Delay		57.1			48.6			50.3			53.8	
Approach LOS		Е			D			D			D	
Queue Length 50th (ft)	69	390	262	88	240	50	243	489	4	150	424	12
Queue Length 95th (ft)	105	#527	388	127	335	115	#386	549	42	#243	482	52
Internal Link Dist (ft)		1451			1373			1927			1349	
Turn Bay Length (ft)	240		925	230			225		250	250		225
Base Capacity (vph)	598	486	743	360	448	704	539	1949	912	349	1669	923
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.22	0.80	0.57	0.47	0.58	0.30	0.84	0.73	0.16	0.82	0.74	0.15
	3,22				2.00							30
Intersection Summary												
Area Type:	Other											
Cycle Length: 160												

Cove Road Charter School

Synchro 10 Report
Page 3

11/29/2018



Splits and Phases: 3: US 1 & Cove Road



Cove Road Charter School Synchro 10 Report

Intersection												
Int Delay, s/veh	10.3											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	EDL		EDR	WDL	WD1	WDR	IVDL	4	INDR.	SDL	<u>उठा</u>	JDK 7
Traffic Vol., veh/h	<b>6</b> 2	<b>↑</b> 767	17	<b>3</b> 0	<b>6</b> 80	23	31	<b>4</b> 5	56	36	<b>4</b> 2	14
Future Vol, veh/h	62	767	17	30	680	23	31	5	56	36	2	14
Conflicting Peds, #/hr	02	0	0	0	000	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	1166	-	None	-	-	None	310p	310p -	None	Siop	310p	None
Storage Length	290	-	290	290	-	300	-	-	0		-	0
Veh in Median Storage, #	290	0	290	290	0	300	-	0	-	-	0	-
Grade, %		0	-	-	0	-	-	0		-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mymt Flow	67	834	18	33	739	25	34	5	61	39	2	15
IVIVIIICT IOW	07	034	10	- 33	131	23	J4	J	UI	37		13
Maior/Minor	Major1			Major2			Minor1			Minor2		
	Major1	^	0	Major2 852	^	0		1700	024		1701	720
Conflicting Flow All	764	0	0	ช5 <u>Z</u>	0	0	1794 968	1798 968	834	1815 805	1791 805	739
Stage 1	-		-	-	-							-
Stage 2 Critical Hdwy	4.12	-	-	4.12	-	-	826 7.12	830 6.52	6.22	1010 7.12	986 6.52	6.22
		-			-							
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12 6.12	5.52 5.52	-	6.12	5.52 5.52	-
Critical Hdwy Stg 2 Follow-up Hdwy	2.218	-	-	2.218	-		3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	2.218	-	-	787	-	-	3.518	4.018	3.318	3.518	4.018	3.318
	849		-	/8/	-	-	305	332	308	376	395	417
Stage 1 Stage 2	-	-	-	-	-	-	366	332	-	289	395	-
Platoon blocked, %	-	-	-	-	-	-	300	383	-	289	320	-
Mov Cap-1 Maneuver	849	-	-	787	-	-	53	71	368	43	71	417
Mov Cap-1 Maneuver	849		-	787	-		53	71	308	43	71	417
Stage 1	-	-	-	-	-	-	281	306	-	346	378	-
Stage 2	-		-	-	-		336	369	-	218	300	
Staye 2	-	-	-	-	-	-	330	307	-	210	300	-
Approach	EB			WB			NB			SB		
	0.7			0.4			74.4			193.4		
HCM Control Delay, s HCM LOS	0.7			0.4			74.4 F			193.4 F		
TIGIVI LUS							Г			ŗ		
Minor Lane/Major Mvmt		NBLn1	NBLn2	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1	SBLn2	
Capacity (veh/h)		55	368	849	EDI	LDR	787	WD1	WDK	3DLIII 44	3DL112 417	
HCM Lane V/C Ratio		0.711	0.165	0.079		-	0.041	-		0.939	0.036	
HCM Control Delay (s)		164.2	16.7	9.6	-	-	9.8	-	-	259.5	0.036	
HCM Control Delay (S) HCM Lane LOS		104.2 F	16.7 C	9.6 A	-	-	9.8 A	-		259.5 F	14 B	
		Г	C	А	-	-	А	-	-		В	
HCM 95th %tile Q(veh)		3	0.6	0.3	_	_	0.1		_	3.8	0.1	

Intersection: 127 SR-76 (KANNER HIGHWAY) @ COVE ROAD

	SBLT	NB		WB		SB		
PHASE	1	2	3	4	5	6	7	8
Initial green	5	10	0	7	0	10	0	0
Passage	3	3	0	3	0	3	0	0
Max 1	20	60	0	45	0	60	0	0
Max 2	30	50	30	50	30	50	30	50
Yellow	4.8	5.1	3	4.8	3	5.1	3	3
All Red	2.3	2	0	2.7	0	2.3	0	0
Walk	0	0	0	5	0	0	0	0
Ped Clear	0	0	0	32	0	0	0	0
Initial	1-Inactive	4-Green	0-None	1-Inactive	0-None	4-Green	0-None	0-None
NA Response	0-None	1-NonAct1	0-None	2-NonAct2	0-None	1-NonAct1	0-None	2-NonAct2
Veh. Recalls	0-None	2-Min	0-None	0-None	0-None	2-Min	0-None	0-None
Non-Lock	1	0	0	1	0	0	0	0
<b>Dual Entry</b>	0	0	0	0	0	0	0	0
Assigned ph.	1	2	3	4	5	6	7	8
Oper. Mode	0-Veh	0-Veh	0-Veh	0-Veh	0-Veh	0-Veh	0-Veh	0-Veh
Switch	6	0	0	0	0	0	0	0

LOCATION: 127 SR-76 (KANNER HIGHWAY) @ COVE ROAD

<u>Day Plan</u>

Day 2 = Weekdays Day 1 = Weekends

DAY			START		GROUP 1 C/S/O		COBALT <u>Plan</u>	
1			9:00		2/2/1		1	
1			19:00		0/0/4		99	
2			6:00		4/1/1		3	
2			9:30		2/1/1		5	
2			15:00		3/1/1		7	
2			19:00		3/2/1		9	
2			20:30		0/0/4		99	
Plan DIAL SPLIT OFFSET CYCLE LENGTH		1 2 2 66 120	0 0	3 4 1 72 150	5 2 1 86 140	7 3 1 105 160	9 3 2 68 120	
PHASE				SPL	LITS (SECON	IDS)		
1	SBLT	18		17	16	19	15	
2	NB	62		82	79	85	65	
3								
4	WB	40		51	45	56	40	
5								
6	SB	80		99	95	104	80	
7								
8								

Printed 08/06/18

Intersection: 91 SR-5 (US1) @ COVE ROAD

	NBLT	SB	EBLT	WB	SBLT	NB	WBLT	EB
PHASE	1	2	3	4	5	6	7	8
Initial green	6	10	4	8	6	10	4	8
Passage	3	5	4	4	3	5	4	4
Max 1	20	60	20	45	20	60	20	45
Max 2	20	60	20	45	20	60	20	45
Yellow	4.4	4.8	3.7	4	4.4	4.8	3.7	4
All Red	3.7	2.9	3.4	4.4	4	2.6	3.5	3.5
Walk	0	7	0	7	0	7	0	7
Ped Clear	0	29	0	36	0	25	0	39
Initial	1-Inactive	3-Yellow	1-Inactive	1-Inactive	1-Inactive	3-Yellow	1-Inactive	1-Inactive
NA Response	0-None	1-NonAct1	0-None	2-NonAct2	0-None	1-NonAct1	0-None	2-NonAct2
Veh. Recalls	0-None	2-Min	0-None	0-None	0-None	2-Min	0-None	0-None
Non-Lock	1	0	1	1	1	0	1	1
Dual Entry	0	0	0	1	0	0	0	1
Assigned ph.	1	2	3	4	5	6	7	8
Oper. Mode	0-Veh	0-Veh	0-Veh	0-Veh	0-Veh	0-Veh	0-Veh	0-Veh
Switch	0	0	0	0	0	0	0	0

LOCATION: 91 SR-5 (US1) @ COVE ROAD

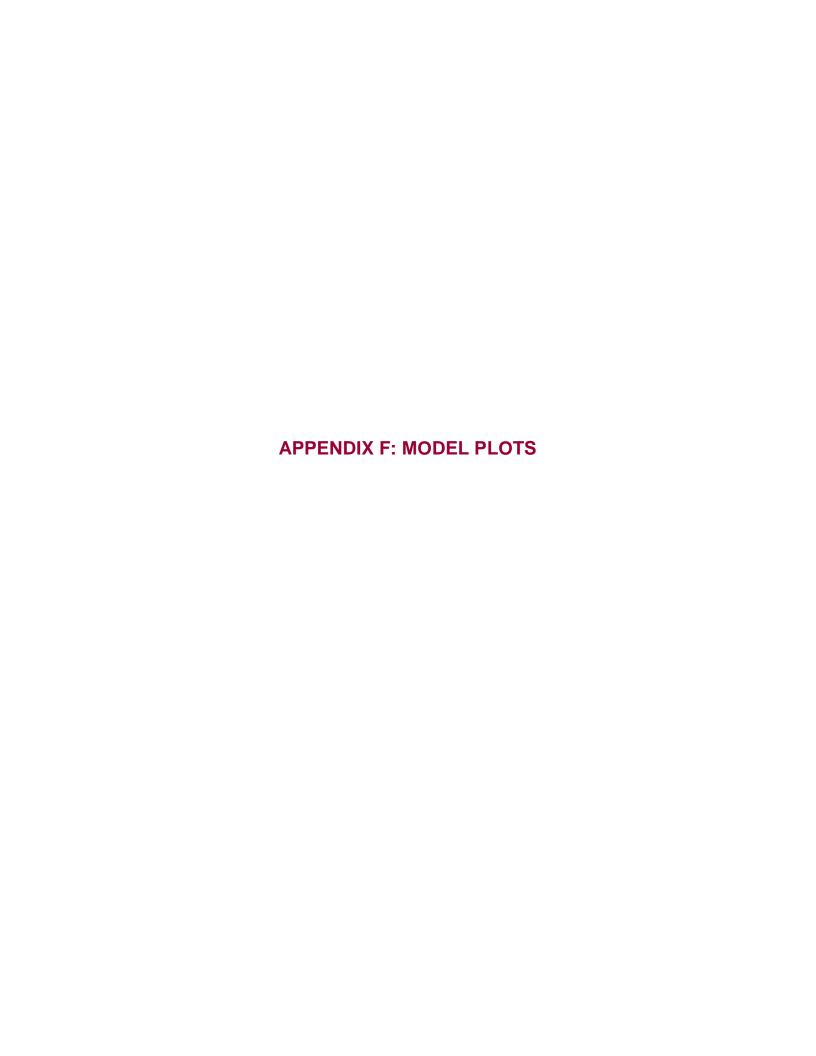
<u>Day Plan</u>

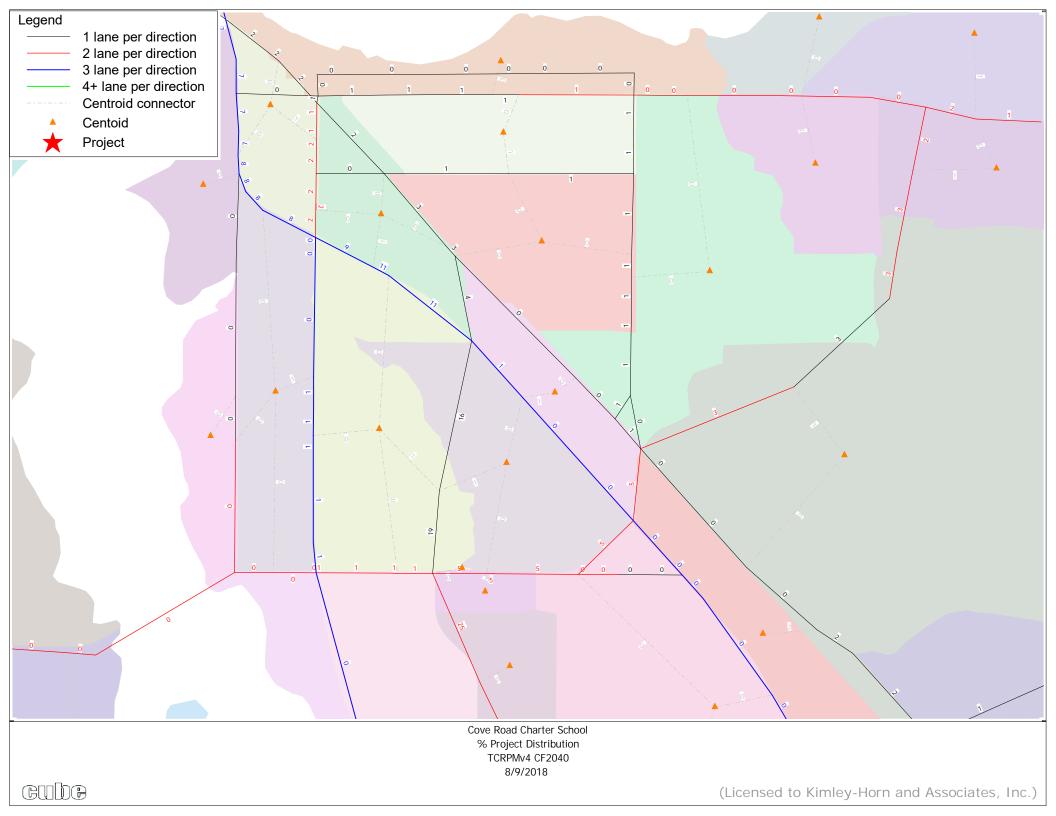
Day 2 = Weekdays Day 1 = Weekends

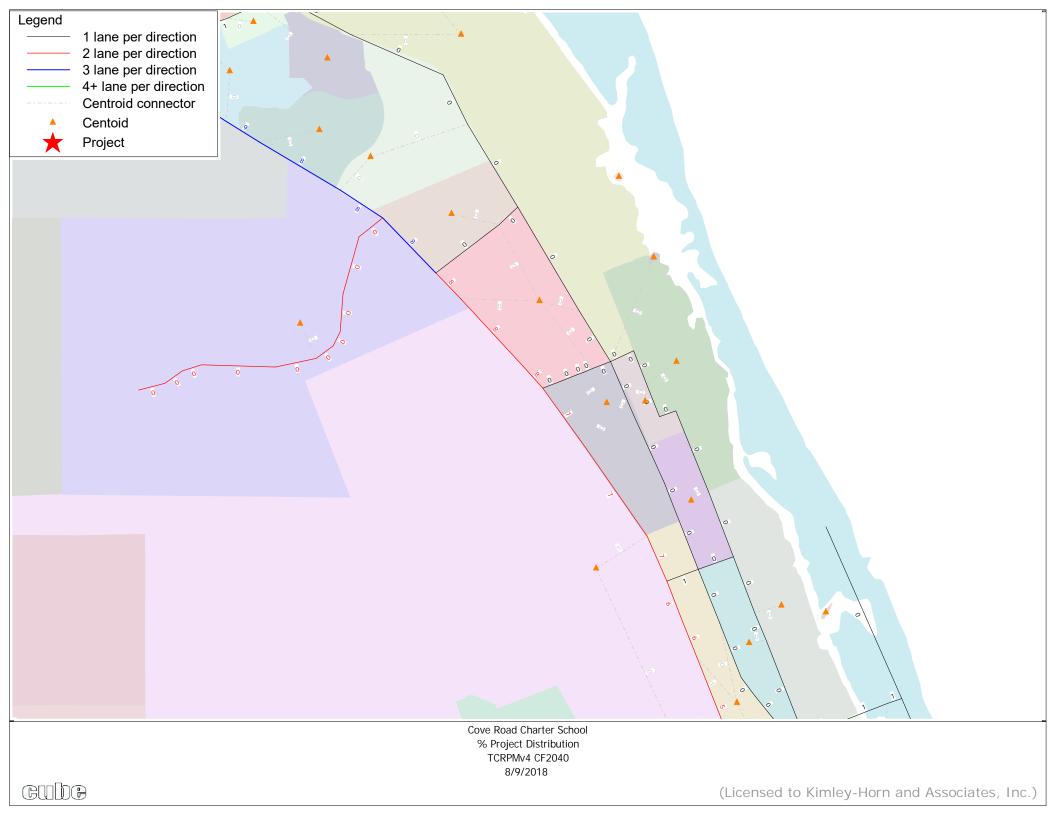
DAY			<u>START</u>		GROUP 1 C/S/O		COBALT group	
1			9:00		4/2/1		1	
1			21:00		0/0/4		99	
2			6:00		3/1/1		3	
2			9:30		3/2/1		5	
2			15:00		3/3/1		7	
2			18:30		2/2/1		9	
2			20:30		0/0/4		99	
							-	
<u>Plan</u>		9		3	5	7	1	
DIAL		2		3	3	3	4	
SPLIT		2		1	2	3	2	
OFFSET		13		158	29	59	13	
CYCLE LENGTH		140		160	160	160	160	
Cobalt Sequence		2		0	5	2	5	
PHASE				SPL	ITS (SECON	IDS)		
1	NBLT	37		37	27	28	42	
2	SB	45		58	63	59	54	
3	EBLT	22		27	26	35	26	
4	WB	36		38	44	38	38	
5	SBLT	21		22	23	23	26	
6	NB	61		73	67	64	70	
7	WBLT	22		27	27	24	26	
8	EB	36		38	43	49	38	

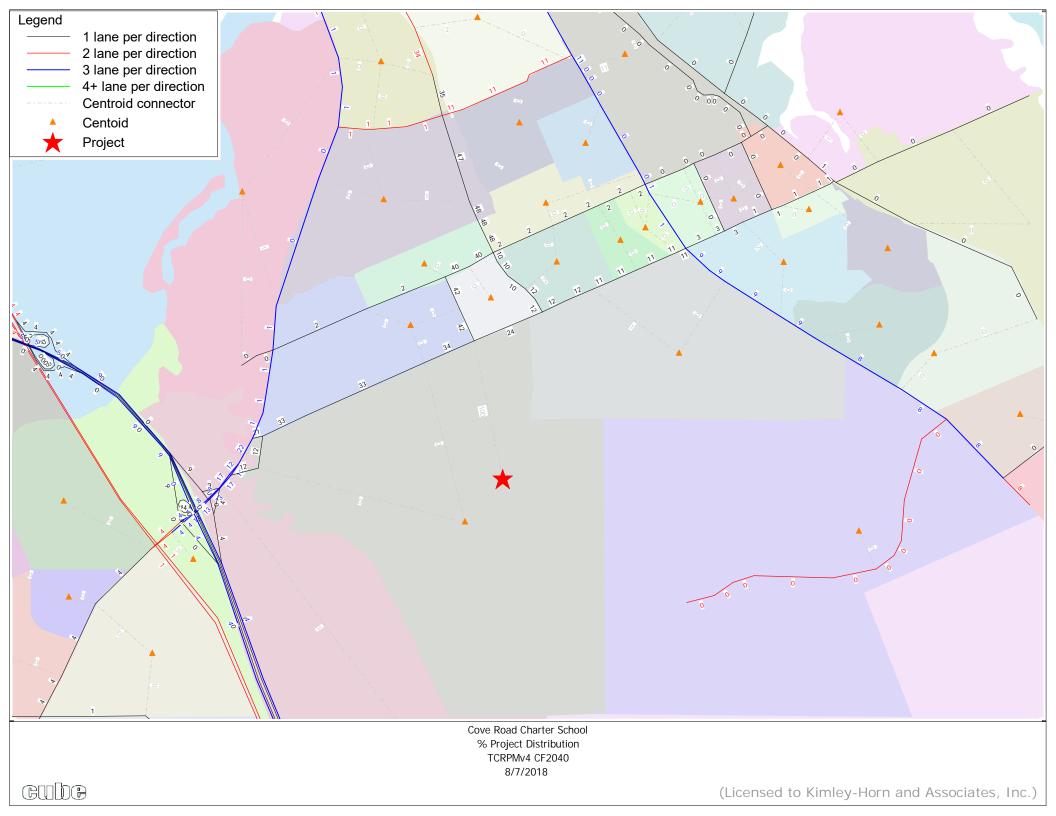
Lagging phase when BOLD type & gray box

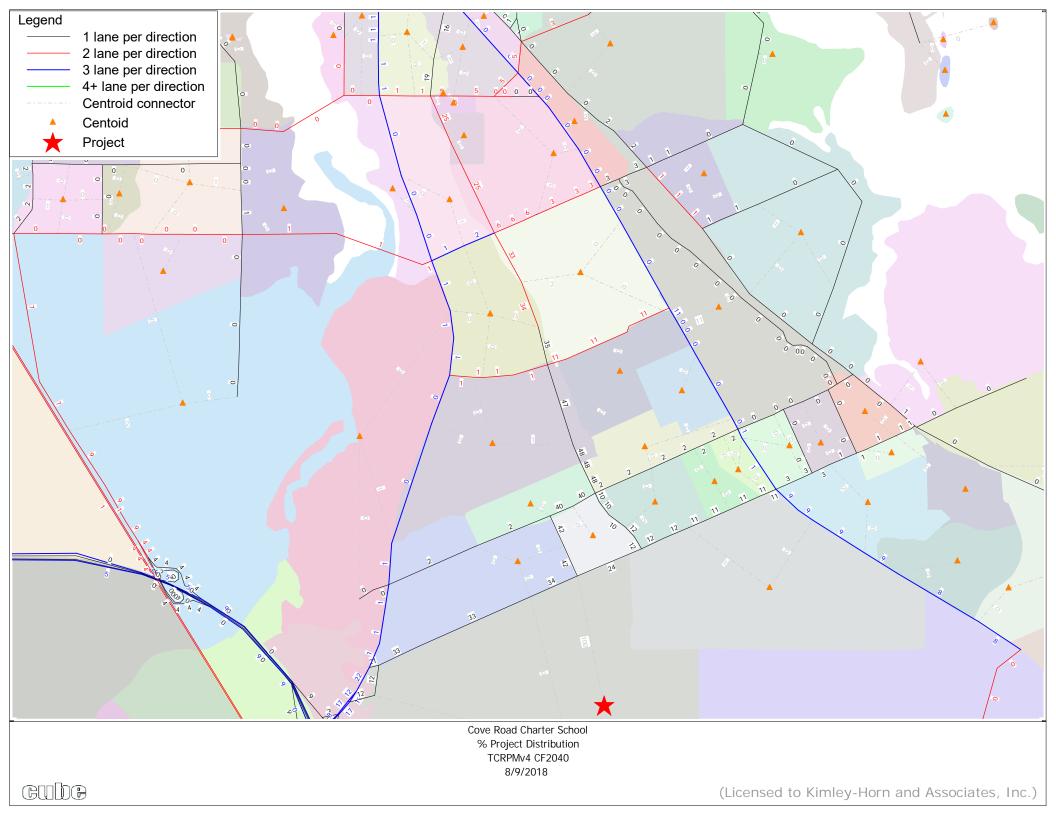
Printed 08/06/18











APPENDIX G: MARTIN	COUNTY 2017 INVENTORY	VEL OF SERVICE

Road Name	From	۵	Generalized Service Capacity	2017 AADT	Peak Hour Factor K <sub>30</sub>	Directional Distribution D <sub>100</sub>	2017 Peak Hour Directional Volume	2017 Generalized LOS	Avg. Annual Growth Rate
Baker Rd	SR-5	CR-723	750	5,114	90:0	0.56	234	U	2.2%
Berry Ave	Golden Bear Wy	CR-714	750	3,609	90:0	0.57	174	O	5.1%
Berry Ave	CR-714	Sunset Tr	750	1,918	90:0	0.55	88	O	6.1%
Britt Rd	Pine Lake Dr	SR-5	750	4,666	90:0	0.54	189	O	0.5%
Citrus Blvd.	CR-714 (Martin Hwy)	Port St. Lucie Blvd.	1200	4,860	0.12	0.82	444	A/B	8.0%
Commerce Ave	Salerno Rd	Monroe St	750	6,074	0.10	0.59	355	O	%8:0
Commerce Ave	Monroe St	Indian St	750	6,750	0.11	0.56	383	٥	1.9%
Country Club Dr	Palm Beach County	Island Way	750	2,730	90:0	0.56	127	O	1.8%
Country Club Dr	Island Way	Little Club Dr	750	4,545	90:0	0.57	149	O	8.0%
County Line Rd	Little Club Dr	SR-5	750	2,746	90:0	0.53	109	O	1.6%
Cove Rd	SR-76	Willoughby Blvd	880	14,326	90:0	0.54	635	O	2.4%
Cove Rd	Willoughby Blvd	SR-5	880	15,819	80:0	0.52	665	O	2.7%
Cove Rd	SR-5	CR-A1A	750	13,638	90.0	0.64	654	۵	3.0%
Cove Rd	CR-41A	End	675	5,167	90:0	0.55	260	O	0.5%
CR-609 (Allapattah Rd)	SR-710	CR-714	740	1,867	60.0	0.58	86	A/B	5.6%
CR-609 (Allapattah Rd)	CR-714	St Lucie County	740	1,933	60:0	0.56	91	A/B	8.0%
CR-707 (Beach Rd)	Palm Beach County	CR-708	675	1,724	60:0	02:0	103	O	3.3%
CR-707 (Dixie Hwy)	CR-723/CR-707	CR-707 (Indian River Dr)	750	5,435	90.0	0.51	242	O	0.5%
CR-707 (Indian River Dr)	CR-707 (Dixie Hwy)	CR-707A (Jensen Beach Blvd.)	675	10,764	0.11	09:0	593	Q	%6:0
CR-707 (Indian River Dr)	CR-707A	SR-732	675	6,131	60:0	09:0	233	O	3.0%
CR-707 (Indian River Dr)	SR-732	St. Lucie County	675	6,430	60:0	0.57	247	O	3.2%
00	0.00								-

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Segments with shaded LOS require additional analysis. The peaks are: CR-A1A (PM/VB); Murphy Rd (PM/NB); SR-5 (PM/NB); and SR-714 (PM/WB).

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Avg. Annual Growth Rate	0.5%	1.2%	0.5%	5.4%	8.0%	8.0%	%6:9	1.1%	1.1%	0.5%	8.0%	4.2%	3.2%	0.5%	3.9%	3.8%	%9:9	4.2%	7.4%	8.0%	8.0%	
2017 Generalized LOS	D	D	D	Α/B	A/B	Α⁄Β	O	Q	Q	O	A/B	O	၁	Q	O	O	Α⁄Β	Α⁄Β	Α/B	O	O	
2017 Peak Hour Directional Volume	296	1,276	442	46	178	392	456	546	370	258	218	288	442	1,009	423	531	117	143	237	1,207	1,486	
Directional Distribution D <sub>100</sub>	0.53	69.0	0.59	0.62	0.55	0.53	0.52	0.53	0.53	0.55	0.61	0.59	0.93	0.68	0.50	0.52	0.53	0.61	0.58	0.53	0.52	
Peak Hour Factor K₃o	0.10	60.0	0.08	0.10	0.11	60:0	60.0	0.11	60:0	60.0	0.11	0.11	0.10	0.12	60:0	0.08	0.07	0.08	0.08	0.11	0.11	
2017 AADT	21,602	21,413	8,505	827	3,581	9,381	10,485	9,267	8,426	4,533	4,016	4,134	5,645	13,068	11,116	12,813	3,233	3,231	5,418	19,811	21,927	
Generalized Service Capacity	1630	1630	675	740	740	1200	880	675	675	750	740	800	800	1190	880	880	740	740	740	2000	2000	
То	Skyline Dr	Pineapple Way	CR-707	CR-711	96-1	Powerline Ave	SR-5	CR-A1A	Gomez Ave	CR-707	CR-708	South Fork High School	SR-76	CR-714	SR-714	Murphy Rd	Fox Brown Rd	CR-609	1-95	CR-713	Mapp Rd	
From	CR-723	Skyline Dr	Pineapple Wy	SR-76	CR-711	96-1	Powerline Ave	SR-5	CR-A1A	Gomez Ave	Palm Beach County	CR-708	South Fork High School	96-1	CR-714	SR-714	SR-710	Fox Brown Rd	CR-609	Florida's Turnpike	CR-713	sisyled
Road Name	CR-707A (Jensen Beach Blvd)	CR-707A (Jensen Beach Blvd)	CR-707A (Jensen Beach Blvd)	CR-708 (Bridge Rd)	CR-711 (Pratt Whitney Rd)	CR-711 (Pratt Whitney Rd)	CR-711 (Pratt Whitney Rd)	CR-713 (High Meadow Ave)	CR-713 (High Meadow Ave)	CR-713 (High Meadow Ave)	CR-714 (Martin Hwy)	ments with shaded LOS require additional analysis										

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Segments with shaded LOS require additional analysis.
The peaks are: CR-A1A (PM/SB); Murphy Rd (PM/NB); SR-5 (PM/NB); and SR-714 (PM/WB).

Road Name	From	То	Generalized Service Capacity	2017 AADT	Peak Hour Factor K <sub>30</sub>	Directional Distribution D <sub>100</sub>	2017 Peak Hour Directional Volume	2017 Generalized LOS	Avg. Annual Growth Rate
CR-714 (Veteran's Memorial Bridge)	Mapp Rd	SR-76	2000	23,206	0.11	09:0	1,538	O	8.0%
CR-723 (Savanna Rd)	CR-707	NE 24th St	880	8,872	0.08	69.0	909	O	1.3%
CR-723 (Savanna Rd)	NE 24th St	CR-707A (Jensen Beach Blvd.)	880	10,388	60:0	0.52	415	O	0.5%
CR-726 (Citrus Blvd)	SR-710	Greenridge Ln	740	3,459	0.08	0.59	119	A/B	8.0%
CR-726 (Citrus Blvd)	Greenridge Ln	CR-76A	740	2,561	0.08	0.59	104	A/B	5.1%
CR-76A (Citrus Blvd.)	CR-726	SR-714	1200	4,115	90:0	0.55	164	A/B	5.5%
CR-76A (SW 96th St)	CR-726	Pennsylvania Ave	1200	3,833	0.08	0.56	168	A/B	3.2%
CR-76A (SW 96th St)	Pennsylvania Ave	SR-76	800	8,395	20.0	0.54	319	O	6.2%
CR-A1A (Dixie Hwy)	SR-5	CR-708	750	3,160	60:0	0.62	173	O	6.5%
CR-A1A (Dixie Hwy)	CR-708	Osprey St	880	7,177	0.11	0.53	437	O	3.0%
CR-A1A (Dixie Hwy)	Osprey St	Heritage Blvd	1190	6,253	90:0	0.56	282	A/B	4.7%
CR-A1A (Dixie Hwy)	Heritage Bl∨d	Cove Rd	1190	6,792	90:0	0.54	284	A/B	4.5%
CR-A1A (Dixie Hwy)	Cove Rd	Salerno Rd	062	11,814	60:0	0.52	559	٥	1.7%
CR-A1A (Dixie Hwy)	Salerno Rd	St. Lucie Blvd	750	16,923	60:0	0.55	777	Ш	3.2%
CR-A1A (Dixie Hwy)	St Lucie Blvd	Jefferson St	750	13,538	0.10	0.52	718	Q	2.9%
CR-A1A (Dixie Hwy)	Jefferson St	Indian St	1630	17,855	60:0	0.55	819	Q	2.7%
CR-A1A (Dixie Hwy)	Indian St	SR-714	2000	15,931	0.09	0.53	982	O	2.7%
CR-A1A (Dixie Hwy)	SR-714	SE Fifth St	9/29	6,464	0.10	0.54	350	Q	2.8%
Crossrip St	CR-A1A	Gomez Ave	675	2,781	0.10	0.59	169	O	3.2%
Dixie Hwy	Joan Jefferson Wy	Wright Blvd	750	8,172	0.12	0.64	605	Q	0.5%
Dr Martin Luther King Jr Blvd	Farm Rd	SR-710	675	2,122	60:0	0.64	26	O	4.7%
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Segments with shaded LOS require additional analysis. The peaks are: CR-A1A (PM/SB); Murphy Rd (PM/NB); SR-5 (PM/NB); and SR-714 (PM/WB).

Road Name	From		Generalized Service Capacity	2017 AADT	Peak Hour Factor K <sub>30</sub>	Directional Distribution D <sub>100</sub>	2017 Peak Hour Directional Volume	2017 Generalized LOS	Avg. Annual Growth Rate
Farm Rd	Dr Martin Luther King Jr Dr	Palm Wy	750	2,509	0.13	0.57	191	၁	2.6%
Fork Rd	Pine Lake Dr	SR-5	675	1,602	90:0	0.66	62	O	%9:9
Fox Brown Rd	SR-710	CR-714	740	402	0.08	0.65	21	A/B	%0:0
Goldenrod Rd	Britt Rd	SR-732	1630	5,605	90:0	0.54	198	O	2.3%
Goldenrod Rd	SR-732	SR-5	750	6,612	60:0	0.54	297	O	%9:0
Goldenrod Rd	SR-5	Westmoreland Blvd	750	3,831	90:0	0.85	302	O	2.3%
Gomez Ave	CR-708	Crossrip St	750	3,823	90:0	0.52	161	O	2.4%
Gomez Ave	Crossrip St	Osprey St	750	666	20.0	0.52	43	υ	0.5%
Green River Parkway	Dixie Hwy	Baker Rd	750	6,526	60:0	0.50	301	O	%9:9
Green River Parkway	Baker Rd	SR-732	880	7,827	0.12	0.63	594	၁	%0.7
Green River Parkway	SR-732	St. Lucie County	1190	8,184	60:0	0.56	435	၁	4.7%
Horseshoe Point Rd	CR-A1A	Kubin Ave	675	5,975	0.08	99.0	324	O	1.2%
Indian St	SR-76	Willoughby Blvd	2000	26,838	0.11	0.63	1,784	O	8.0%
Indian St	Willoughby Blvd	SR-5	2000	27,536	90:0	0.57	1,162	O	8.0%
Indian St	SR-5	Commerce Ave	2000	23,065	90:0	0.53	1,142	O	4.4%
Indian St	Commerce Ave	CR-A1A	2000	25,604	60:0	0.54	1,084	O	4.4%
Indian St	CR-A1A	St Lucie Blvd	675	7,771	60:0	0.55	336	Q	3.3%
Indian River Dr	Palmer St	CR-707	750	7,460	60:0	0.52	352	O	3.1%
Island Way	Palm Beach County	Jupiter Road	1200	4,208	0.10	0.59	248	A/B	2.5%
Island Way	Jupiter Road	Country Club Dr	750	4,783	0.08	0.50	81	O	1.9%
Jack James Rd	SR-76	Blue Water Wy	750	3,074	0.12	0.52	209	O	5.4%
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Segments with shaded LOS require additional analysis. The peaks are: CR-A1A (PM/VB); Murphy Rd (PM/NB); SR-5 (PM/NB); and SR-714 (PM/WB).

Road Name	From	То	Generalized Service Capacity	2017 AADT	Peak Hour Factor K <sub>30</sub>	Directional Distribution D <sub>100</sub>	2017 Peak Hour Directional Volume	2017 Generalized LOS	Avg. Annual Growth Rate
Lares St	CR-708	CR-A1A	675	3,459	90'0	0.59	158	၁	3.8%
Little Club Wy	Country Club Dr	Wooden Bridge Wy	675	2,233	90.0	0.53	101	O	%6'0
Locks Rd	Canal St	SR-76	675	3,844	0.07	0.61	167	O	2.4%
MacArthur Blvd	Sailfish Point	SR-A1A	675	5,762	0.11	0.55	268	O	2.5%
Mapp Rd	South End	CR-714	750	5,533	90:0	0.52	219	O	1.1%
Mapp Rd	CR-714	SR-714	750	11,684	60:0	0.53	558	Q	0.5%
Mapp Rd	SR-714	Matheson Ave	750	5,756	0.10	0.57	301	O	3.6%
Марр Rd	Matheson Ave	North End	750	7,384	0.08	0.65	400	Q	1.0%
Market Pl	SR-5	Commerce Ave	062	4,675	60:0	0.52	208	O	3.0%
Matheson Ave	SR-714	Mapp Rd	750	5,503	0.08	0.54	265	O	0.5%
Monroe St	SR-5	Commerce Ave	750	1,875	0.11	0.55	103	O	2.6%
Murphy Rd	Mapp Rd	High Meadow Ave	750	6,131	60:0	0.53	431	Q	1.8%
Murphy Rd	High Meadow Ave	St Lucie County	750	9,433	0.13	0.74	884	ш	4.9%
North River Shores Blvd	Spruce Ridge Dr	SR-5	675	3,679	0.08	0.57	130	O	8.0%
Ocean Blvd	Flagler Ave	Palm Beach Rd	062	9,459	0.10	0.64	929	Q	0.5%
Ocean Blvd	Palm Beach Rd	SR-714	1465	12,514	0.10	0.54	782	Q	%2'0
Osprey St	SR-5	CR-A1A	750	5,895	0.07	0.58	204	O	6.4%
Osprey St	CR-A1A	Gomez Ave	750	1,792	0.08	0.55	95	O	0.5%
Palm Beach Rd	SR-714	Ocean Blvd	710	8,031	0.10	0.53	495	D	0.5%
Palm City Rd	SR-714	SR-5	750	7,365	0.08	0.68	398	D	2.9%
Palmer St	CR-707	Indian River Dr	750	3,017	0.12	0.58	202	O	3.0%
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Segments with shaded LOS require additional analysis. The peaks are: CR-A1A (PM/SB); Murphy Rd (PM/NB); SR-5 (PM/NB); and SR-714 (PM/WB).

Road Name	From	То	Generalized Service Capacity	2017 AADT	Peak Hour Factor K <sub>30</sub>	Directional Distribution D <sub>100</sub>	2017 Peak Hour Directional Volume	2017 Generalized LOS	Avg. Annual Growth Rate
Pine Lake Dr	Fork Rd	Britt Rd	675	1,728	60:0	0.51	56	O	0.5%
Pineapple Wy	CR-707A(Jensen Beach Blvd.)	SR-732	750	11,136	0.10	0.55	289	Q	1.1%
Pomeroy St	SR-76	Willoughby Blvd	062	9,176	90:0	0.58	447	Q	3.3%
Pomeroy St	Willoughby Blvd	SR-5	062	8,701	60:0	0.54	383	O	4.4%
Salerno Rd	SR-76	Willoughby Blvd	880	7,926	60:0	0.55	382	O	3.3%
Salerno Rd	Willoughby Blvd	SR-5	062	9,476	0.11	0.50	520	Q	2.1%
Salerno Rd	SR-5	Commerce Ave	750	9,961	60:0	0.57	493	Q	2.2%
Salerno Rd	Commerce Ave	CR-41A	750	8,099	90:0	0.56	343	O	2.4%
Savanna Rd	CR-707A	County Line Rd	675	1,206	0.11	09:0	80	O	4.0%
Seabranch Blvd	Doubletree Dr	SR-5	2000	6,627	60:0	0.57	345	O	0.5%
Sewalls Pt Rd	SR-A1A	Palmer St	675	9,391	60:0	0.53	406	Q	1.9%
Skyline Dr	CR-707A	CR-707	675	1,771	90:0	0.57	87	O	0.5%
SR-15 (Connors Hwy)	Palm Beach County	SR-76	740	4,804	60:0	0.64	288	O	0.5%
SR-15 (Connors Hwy)	SR-76	Okeechobee County	740	3,065	60:0	0.56	154	A/B	1.9%
SR-5 (US-1)	Palm Beach County	CR-41A	3110	20,247	60:0	0.52	954	A/B	2.7%
SR-5 (US-1)	CR-A1A	CR-708	2000	16,690	60:0	0.52	785	O	3.5%
SR-5 (US-1)	CR-708	Osprey St	2000	23,968	0.10	0.61	1,506	O	2.0%
SR-5 (US-1)	Osprey St	Seabranch Blvd	2000	23,788	0.08	0.55	1,065	O	2.3%
SR-5 (US-1)	Seabranch Blvd	Cove Rd	3020	29,745	0.08	0.55	1,363	၁	%6:0
SR-5 (US-1)	Cove Rd	Salerno Rd	3020	33,447	90:0	0.58	1,491	၁	%6:0
SR-5 (US-1)	Salerno Rd	Monroe St	3020	39,900	60:0	0.54	1,832	၁	%6.0
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Segments with shaded LOS require additional analysis. The peaks are: CR-A1A (PM/VB); Murphy Rd (PM/NB); SR-5 (PM/NB); and SR-714 (PM/WB).

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Segments with shaded LOS require additional analysis.
The peaks are: CR-A1A (PM/SB); Murphy Rd (PM/NB); SR-5 (PM/NB); and SR-714 (PM/WB).

# Martin County 2017 Roadway Level of Service Inventory Report

Road Name	From	70	Generalized Service Capacity	2017 AADT	Peak Hour Factor K <sub>30</sub>	Directional Distribution D <sub>100</sub>	2017 Peak Hour Directional Volume	2017 Generalized LOS	Avg. Annual Growth Rate
SR-714 (Martin Downs Blvd)	CR-713	Matheson Ave	2000	28,402	0.08	0.52	1,301	O	0.5%
SR-714 (Martin Downs Blvd)	Matheson Ave	Mapp Rd	2000	31,762	0.10	0.53	1,673	၁	2.7%
SR-714 (Palm City Bridge)	Mapp Rd	SR-76	2000	33,984	0.10	0.59	1,990	D	0.5%
SR-714 (Monterey Rd)	SR-76	Willoughby Blvd	2000	23,578	90:0	0.56	1,164	O	0.5%
SR-714 (Monterey Rd)	Willoughby Blvd	Monterey Extension	2000	24,684	0.10	0.56	1,316	O	0.5%
SR-714 (Monterey Rd)	Monterey Extension	SR-5	2000	17,573	60:0	0.58	869	O	0.5%
SR-714 (Monterey Rd)	SR-5	CR-A1A	1630	22,358	60:0	0.64	1,337	٥	0.5%
SR-714 (Monterey Rd)	CR-A1A	SR-A1A	1910	19,201	60:0	0.61	829	O	3.3%
SR-732 (Causeway Blvd)	CR-707	SR-A1A	1190	13,234	60:0	0.57	674	O	%8'0
SR-732 (Jensen Beach Blvd)	SR-5	Green River Pkwy	2000	25,977	0.10	0.51	1,324	O	%8'0
SR-732 (Jensen Beach Blvd)	Green River Pkwy	CR-723	2000	24,703	60:0	0.53	1,252	o	0.5%
SR-76 (Kanner Hwy)	SR-15	SR-710	740	2,427	60:0	0.58	66	A/B	5.5%
SR-76 (Kanner Hwy)	SR-710	CR-708	740	3,576	90:0	0.55	151	A/B	3.6%
SR-76 (Kanner Hwy)	CR-708	CR-711/CR-76A	1200	2,966	0.10	0.55	177	A/B	2.0%
SR-76 (Kanner Hwy)	CR-711/CR76A	Locks Rd	2000	13,039	0.12	0.51	773	O	2.6%
SR-76 (Kanner Hwy)	Locks Rd	Jack James	2000	20,579	90:0	0.50	787	O	2.3%
SR-76 (Kanner Hwy)	Jack James	Cove Rd	3020	44,854	0.10	0.52	2,353	O	2.4%
SR-76 (Kanner Hwy)	Cove Rd	Salerno Rd	3020	31,465	60:0	0.52	1,470	O	%6.0
SR-76 (Kanner Hwy)	Salerno Rd	Indian St	3020	28,733	0.10	0.52	1,430	O	2.6%
SR-76 (Kanner Hwy)	Indian St	SR-714	3020	21,056	0.07	0.52	793	၁	0.5%
SR-76 (Kanner Hwy)	SR-714	SR-5	3020	24,908	90:0	0.50	1,118	O	0.5%
gments with shaded LOS require additional analysis.	nalysis.								8 of

8 of 9 Effective March 1, 2018

Segments with shaded LOS require additional analysis. The peaks are: CR-A1A (PM/SB); Murphy Rd (PM/NB); SR-5 (PM/NB); and SR-714 (PM/WB).

# Martin County 2017 Roadway Level of Service Inventory Report

Road Name	From	Ф	Generalized Service Capacity	2017 AADT	Peak Hour Factor K <sub>30</sub>	Directional Distribution D <sub>100</sub>	2017 Peak Hour Directional Volume	2017 Generalized LOS	Avg. Annual Growth Rate
SR-A1A (Ocean Blvd)	SR-714	St Lucie Blvd	1630	19,125	0.11	0.52	1,053	Q	1.8%
SR-A1A (Ocean Blvd)	St Lucie Blvd	Sewalls Point Rd	2000	22,984	0.10	0.56	1,248	O	2.3%
SR-A1A (Ocean Blvd)	Sewalls Point Rd	Macarthur Blvd	925	13,899	0.11	0.52	989	O	1.6%
SR-A1A (Ocean Blvd)	MacArthur Blvd	SR-732	1190	7,916	60:0	0.53	379	A/B	2.5%
SR-A1A (Ocean Blvd)	SR-732	St Lucie County	1190	14,530	0.12	0.50	868	Q	5.1%
St Lucie Bl∨d	CR-A1A	Indian St	675	3,304	60:0	0.51	163	O	4.1%
St Lucie Blvd	Indian St	SR-A1A	675	7,932	60:0	0.54	337	Q	3.8%
Westmoreland Blvd	St Lucie County	SR-5	790	11,513	90:0	0.57	530	Q	%8'0
Willoughby Blvd	Cove Rd	Salerno Rd	880	4,177	60:0	0.65	223	O	8.0%
Willoughby Blvd	Salerno Rd	Pomeroy St	880	9,108	0.10	0.52	478	၁	%6'.2
Willoughby Blvd	Pomeroy St	Indian St	2000	10,878	60:0	0.50	312	၁	6.4%
Willoughby Blvd	Indian St	SR-714	2000	606'6	60:0	0.54	480	O	0.5%
Wright Blvd	SR-5	Dixie Highway	750	9,319	60:0	0.51	401	Q	1.8%

### LEGAL DESCRIPTION

### PARCEL D1 - DRIVEWAY EASEMENT

Being a Parcel of land, said Parcel being a portion of Lot 7 as shown on the Plat of Wa-Co Field Place as recorded in Plat Book 5, Page 62, Public Records of Palm Beach (now Martin) County, Florida, said Parcel being more particularly described as follows:

Commence at the Point of intersection of the Southerly Right-of-Way line of Cove Road as established from the Right-of-Way Map prepared by Keith and Schnars, Inc. dated October 20, 1989 and the Westerly Line of Lot 5; Thence North 66°12'15" East, along said Southerly Right-of-Way line a distance of 516.98 feet to the Point of Beginning of the following described Parcel; Thence continue along said Southerly Right-of-Way Line, North 66°12'15" East, a distance of 93.88 feet to the Easterly line of said Lot 7; Thence departing said Southerly Right-of-Way line, South 00°12'05" East, along the said Easterly line a distance of 260.30 feet; Thence South 73°14'56" West, departing said Easterly Line a distance of 52.16 feet; Thence North 00°12'05" West, along a line, said line being 50.00 feet Westerly of as measured at right angles to the East line of said Lot 7, a distance of 103.95 feet to the beginning of a curve concave to the West having a radius of 135.00 feet; Thence Northerly and Northwesterly along the arc of said curve, through a central angle of 28°20'46" a distance of 66.79 feet to the Point of Reverse Curvature of a curve concave to the Northeast, having a radius of 165.00 feet; Thence Northwesterly and Northerly along the arc of said curve through a central angle of 21°51'55" a distance of 62.97 feet. Thence North 06°12'15" West, a distance of 9.88 feet to the Southerly Right-of-Way of Cove Road and the Point of Beginning.

Containing 0.35 acres, more or less

PROVIDED IN ITS ENTIRETY CONSISTING OF 4 SHEETS, WITH SHEETS 3 AND 4 BEING THE SKETCH OF DESCRIPTION.



LEGAL DESCRIPTION FOR: DRIFTWOOD CAY MARTIN COUNTY FLORIDA

Oct 2015 RLI

14-1012-09-01

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Drawing Name: Driftwood Sketch-Legal Driveway Essemen

Book2835/Page1837

CFN#2559002

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### SURVEYOR'S NOTES

- 1. THIS SKETCH AND LEGAL DESCRIPTION IS BASED ON OFFICE INFORMATION ONLY AND DOES NOT REPRESENT A BOUNDARY SURVEY.
- 2. THIS LEGAL DESCRIPTION SHALL NOT BE VALID UNLESS:
  - A) PROVIDED IN ITS ENTIRETY CONSISTING OF 4 SHEETS, WITH SHEETS 3 AND 4 BEING THE SKETCH OF DESCRIPTION.
  - B) REPRODUCTION OF THE DESCRIPTION AND SKETCH ARE SIGNED AND SEALED WITH AN EMBOSSED SURVEYOR'S SEAL.
- 3. BEARINGS SHOWN HEREON ARE REFERENCED TO THE SOUTHERLY RIGHT-OF-WAY LINE OF COVE ROAD, HAVING A BEARING OF \$66°12'15" E, AND ALL OTHERS ARE RELATIVE THERETO.

### CERTIFICATION

(NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER)

I HEREBY CERTIFY THAT THE SKETCH AND LEGAL DESCRIPTION OF THE PROPERTY SHOWN AND DESCRIBED HEREON WAS COMPLETED UNDER MY DIRECTION AND SAID SKETCH AND DESCRIPTION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

I FURTHER CERTIFY THAT THIS SKETCH AND DESCRIPTION MEETS THE MINIMUM TECHNICAL STANDARDS FOR SURVEYS SET FORTH BY THE FLORIDA PROFESSIONAL BOARD OF SURVEYORS AND MAPPERS IN CHAPTER 5J-17.052, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027 FLORIDA STATE STATUTES. THE SKETCH AND DESCRIPTION IS BASED ON INFORMATION FURNISHED BY CLIENT OR CLIENT'S REPRESENTATIVE.

11/02/2015 DATE OF SIGNATURE

PETER ANDERSEN PROFESSIONAL SURVEYOR AND MAPPER FLORIDA CERTIFICATE NO. 5199

PROVIDED IN ITS ENTIRETY CONSISTING OF 4 SHEETS, WITH SHEETS 3 AND 4 BEING THE SKETCH OF DESCRIPTION.

REVISIONS

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LEGAL DESCRIPTION FOR DRIFTWOOD CAY MARTIN COUNTY FLORIDA

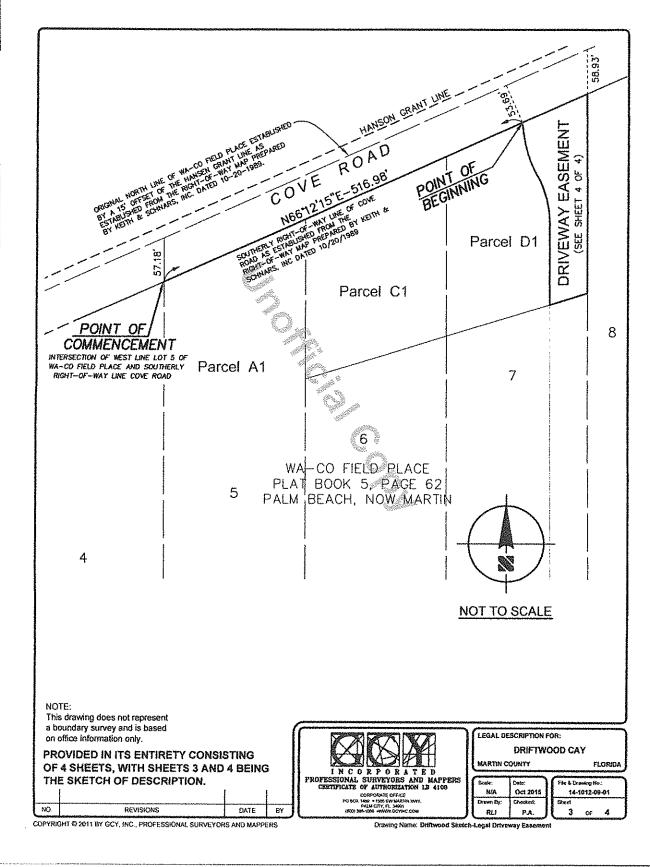
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Drawing Name: Driftwood Sketch-Legal Driveway Essement

Book2835/Page1838

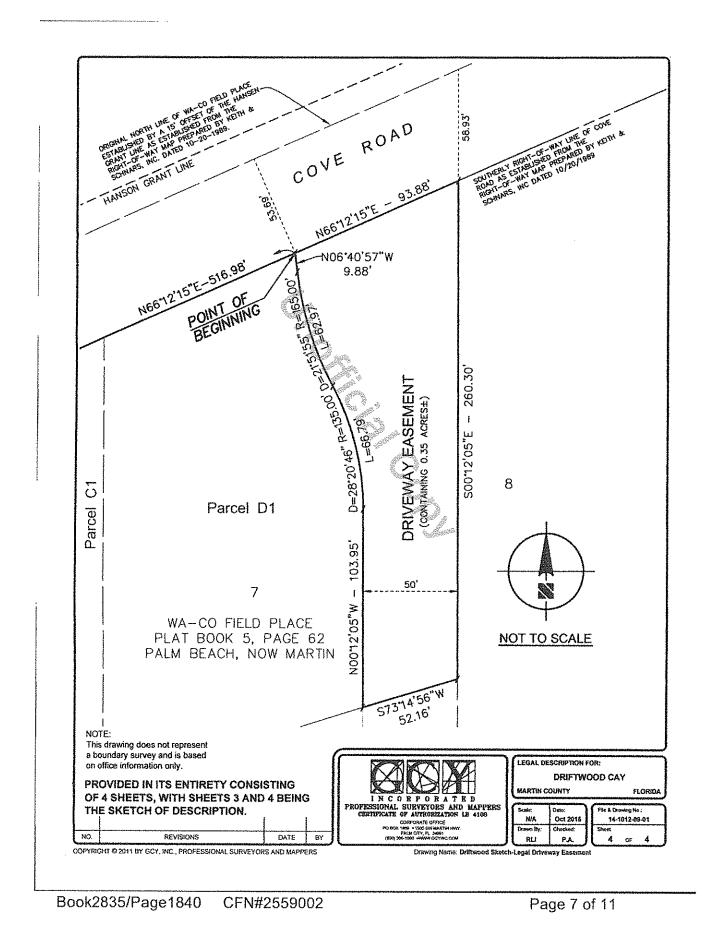
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## Private Liftstation Calculations Martin County

# Treasure Coast Classical Academy Martin County, Florida

Prepared for:

Martin County

## Private Liftstation Calculations

# Treasure Coast Classical Academy

Martin County, Florida

Prepared for:

**Martin County** 

Prepared by:

Kimley-Horn and Associates, Inc.

Lakeland, Florida

December 2018

© Kimley-Horn and Associates, Inc. 2018 116 S. Kentucky Ave., Lakeland, FL 33801 CA 00000696 (863) 701-8702 **Project Name: Treasure Coast Classical Academy** 

Location:

KHA Project Number:

Engineer: Jamison Tondreault Checked by:

Revised: December 6, 2018

### LIFT STATION CALCULATIONS

### A. Flow Estimate

Type of Establishment Unit (gpd) Quantity Measure Total School O GPD (ADF) 14,000 GPD (ADF) 675 GPD (ADF) 1000 10gpd/student, 4 GPD for cafeteria 14 45 15gpd/school worker 15 O GPD (ADF) TOTAL= 14,675 GPD (ADF)

Average = 14,675 GPD = 20.4 GPM = ADF 12 Hours x 60 Min./Hour

2. Peak Flows

ADF Ran	ge (GPD)	Peak Factor
From	to	reak racioi
0	100,000	
100,000	250,000	3.5
250,000	1,000,000	3
1,000,000	5,000,000	2.5

a peaking factor of \_\_\_\_4 is used.

Peak flow = 20.4 GPM x 4 = 82 GPM

### B. Equivalent lengths of pipe

(Based on Submersible Sewage Pumping Systems Handbook, Second Edition)

	Equi	valent Feet of	Pipe			
Fitting		Pipe Size	e (inches)			
ritting	2	3	4	6	8	10
Gate Valve	1	1.7	2.3	3.5	4.5	5.7
Plug Valve	3	4.5	6.2	9.3	12.2	15.4
Check Valve	13	20	27	40	53	67
Tee	11	17	22	33	43	56
45 Degree	3	3.8	5	7.7	10	13
90 Degree	6	8.1	11	16	21	26
Reducer	3	4	4	5	8	10

Hazen-W	illiams	
Material	C (New)	C (DEP)
HDPE	140	120
PVC	140	120
DIP	120	100

Pipe	22	LF of	3	PVC force main		=	22 LF
Gate Valve	1	_	3	Gate Valve (open) x	1.7 LF	=	2 LF
Plug Valve	0	-	3	Plug Valve (open) x	4.5 LF	=	0 LF
Check Valve	1	-	3	Check Valve (open) x	20 LF	=	20 LF
Гее	1	-	3	Tees x	17 LF	=	17 LF
15 Degree	0	-	3	45 degree elbows x	3.8 LF	=	0 LF
0 Degree	3	-	3	90 degree elbows x	8.1 LF	=	24 LF
Reducer	1	-	3	Reducers x	4 LF	=	4 LF
		Equivaler	t length o	f 3 pipe based on	C Factor shown above		89 LF
<ul> <li>Equivalent lengths of</li> </ul>							
Pipe	1,030	LF of	4	PVC force main		=	1,030 LF
Sate Valve	1	-	4	Gate Valve (open) x	2.3 LF	=	2 LF
Plug Valve	0	-	4	Plug Valve (open) x	6.2 LF	=	0 LF
Check Valve	1	-	4	Check Valve (open) x	27 LF	=	27 LF
Гее	0	-	4	Tees x	22 LF	=	0 LF
5 Degree	7	-	4	45 degree elbows x	5 LF	=	35 LF
00 Degree	2	-	4	90 degree elbows x	11 LF	=	22 LF
Reducer	0	-	4	Reducers x	4 LF	=	0 LF
		Equivaler	t length o	f 4 pipe based on	C Factor shown above		1,116 LF
c. Equivalent lengths						=	0 LF
	0	LF of	10	PVC force main			
Pipe	0	LF of	10 10	PVC force main Gate Valve (open) x	5.7 LF	=	0 LF
Pipe Gate Valve					5.7 LF 15.4 LF		
Pipe Gate Valve Plug Valve	0	-	10	Gate Valve (open) x		=	0 LF 0 LF 0 LF
Pipe Gate Valve Plug Valve Check Valve	0	-	10 10	Gate Valve (open) x Plug Valve (open) x	15.4 LF	= =	0 LF
Pipe Gate Valve Plug Valve Check Valve Fee	0 0	-	10 10 10	Gate Valve (open) x Plug Valve (open) x Check Valve (open) x	15.4 LF 67 LF	= = =	0 LF 0 LF
Ic. Equivalent lengths Pipe Gate Valve Plug Valve Check Valve Fee 45 Degree 90 Degree	0 0 0	- - -	10 10 10 10	Gate Valve (open) x Plug Valve (open) x Check Valve (open) x Tees x	15.4 LF 67 LF 56 LF	= = = =	0 LF 0 LF 0 LF

3

4

10

inch force main

inch force main

inch force main

### C. Static Head

Based on

Based on

Based on

C=

89

1116

120

Highest Point of Force Main		17.25 FT	NAVD
Low Water Level In Wetwell		7.00 FT	NAVD
	Total Static Head	10.25 FT	

equivalent feet of

equivalent feet of

equivalent feet of

### D. Head in receiving force main.

Receiving force main peak pressure 20.00 psi / 0.433 = 46.19 FT of head Receiving force main minimum pressure 15.00 psi / 0.433 = 34.64 FT of head

### E. System Head Curve

Pipe Classification	Inside Diameter (in)	C Factor	Equiv. Length (ft)	
PVC	3.00	120	89	
PVC	4.00	120	1,116	
PVC	10.00	120	0	Not used

C=120

### SYSTEM CURVE DATA POINTS

				Manifold	Run Out		
	Velocity	Friction	Static	Receiving	Receiving		Manifold
Flow (GPM)	(FPS)	Loss(ft)	Head(ft)	Head(ft)	Head (ft)	Run Out TDH (ft)	TDH (ft)
0	0.00	0.00	10.25	46	35	44.89	56.44
20	0.91	0.66	10.25	46	35	45.55	57.10
40	1.82	2.38	10.25	46	35	47.27	58.82
60	2.72	5.03	10.25	46	35	49.93	61.47
80	3.63	8.57	10.25	46	35	53.46	65.01
100	4.54	12.95	10.25	46	35	57.84	69.39
120	5.45	18.15	10.25	46	35	63.04	74.59
140	6.35	24.13	10.25	46	35	69.03	80.57
160	7.26	30.90	10.25	46	35	75.79	87.34
180	8.17	38.42	10.25	46	35	83.31	94.86
200	9.08	46.69	10.25	46	35	91.58	103.13
220	9.99	55.69	10.25	46	35	100.58	112.13
240	10.89	65.42	10.25	46	35	110.31	121.86
260	11.80	75.86	10.25	46	35	120.75	132.30
280	12.71	87.01	10.25	46	35	131.90	143.45
300	13.62	98.85	10.25	46	35	143.74	155.29
320	14.53	111.39	10.25	46	35	156.28	167.83
340	15.43	124.61	10.25	46	35	169.50	181.05
360	16.34	138.50	10.25	46	35	183.40	194.94
380	17.25	153.08	10.25	46	35	197.97	209.51
400	18.16	168.31	10.25	46	35	213.20	224.75
420	19.06	184.21	10.25	46	35	229.10	240.65
440	19.97	200.77	10.25	46	35	245.66	257.21
460	20.88	217.98	10.25	46	35	262.87	274.41

### B. Equivalent lengths of pipe

(Based on Submersible Sewage Pumping Systems Handbook, Second Edition)

	Equi	valent Feet of	Pipe			
Fitting		Pipe Size	e (inches)			
Titting	2	3	4	6	8	10
Gate Valve	1	1.7	2.3	3.5	4.5	5.7
Plug Valve	3	4.5	6.2	9.3	12.2	15.4
Check Valve	13	20	27	40	53	67
Tee	11	17	22	33	43	56
45 Degree	3	3.8	5	7.7	10	13
90 Degree	6	8.1	11	16	21	26
Reducer	3	4	4	5	8	10

Hazen-W	illiams	Ĭ
Material	C (New)	C (DEP)
HDPE	140	120
PVC	140	120
DIP	120	100

Pipe	22	LF of	3	PVC force main		=	22 LF
Gate Valve	1	-	3	Gate Valve (open) x	1.7 LF	=	2 LF
Plug Valve	0	-	3	Plug Valve (open) x	4.5 LF	=	0 LF
Check Valve	1	-	3	Check Valve (open) x	20 LF	=	20 LF
Гее	1	-	3	Tees x	17 LF	=	17 LF
5 Degree	0	-	3	45 degree elbows x	3.8 LF	=	0 LF
00 Degree	3	-	3	90 degree elbows x	8.1 LF	=	24 LF
Reducer	1	-	3	Reducers x	4 LF	=	4 LF
		Equivaler	t length o	of 3 pipe based on	C Factor shown above		89 LF
b. Equivalent length	s of nine from va	lve vault to	connection	n noint			
Pipe	1.030	LF of	4	PVC force main		=	1,030 LF
Pate Valve	1,000	-	4	Gate Valve (open) x	2.3 LF	=	2 LF
lug Valve	0	_	4	Plug Valve (open) x	6.2 LF	=	0 LF
Check Valve	1	_	4	Check Valve (open) x	27 LF	=	27 LF
Cee	0	_	4	Tees x	22 LF	=	0 LF
5 Degree	7	-	4	45 degree elbows x	5 LF	=	35 LF
0 Degree	2	-	4	90 degree elbows x	11 LF	=	22 LF
Reducer	0	-	4	Reducers x	4 LF	=	0 LF
		Equivaler	t length o	of 4 pipe based on	C Factor shown above		1,116 LF
c. Equivalent length	IS		10	PVC force main		=	0 LF
	os 0	LF of					0 LF
Pipe		LF of	10	Gate Valve (open) x	5.7 LF	=	U LI
c. Equivalent length Pipe Gate Valve Plug Valve	0	LF of - -		Gate Valve (open) x Plug Valve (open) x	5.7 LF 15.4 LF	= =	0 LF
Pipe Gate Valve Plug Valve	0	-	10				
Pipe Gate Valve Plug Valve Check Valve	0 0 0	-	10 10	Plug Valve (open) x	15.4 LF	=	0 LF
Pipe Gate Valve Plug Valve Check Valve Cee	0 0 0	-	10 10 10	Plug Valve (open) x Check Valve (open) x	15.4 LF 67 LF	= =	0 LF 0 LF
Pipe Gate Valve	0 0 0 0	-	10 10 10 10	Plug Valve (open) x Check Valve (open) x Tees x	15.4 LF 67 LF 56 LF	= = =	0 LF 0 LF 0 LF

3

4

10

inch force main

inch force main

inch force main

### C. Static Head

Based on

Based on

Based on

C=

Highest Point of Force Main		17.25 FT	NAVD
Low Water Level In Wetwell		7.00 FT	NAVD
	Total Static Head	10.25 FT	

equivalent feet of

equivalent feet of

equivalent feet of

89 1116

150

### D. Head in receiving force main.

Receiving force main peak pressure 20.00 psi / 0.433 = 46.19 FT of head Receiving force main minimum pressure 15.00 psi / 0.433 = 34.64 FT of head

### E. System Head Curve

Pipe Classification	Inside Diameter (in)	C Factor	Equiv. Length (ft)	
PVC	3.00	150	89	
PVC	4.00	150	1,116	
PVC	10.00	150	0	Not used

C=150

### SYSTEM CURVE DATA POINTS

				Manifold	Run Out		
	Velocity	Friction	Static	Receiving	Receiving		Manifold
Flow (GPM)	(FPS)	Loss(ft)	Head(ft)	Head(ft)	Head (ft)	Run Out TDH (ft)	TDH (ft)
0	0.00	0.00	10.25	46	35	44.89	56.44
20	0.91	0.44	10.25	46	35	45.33	56.88
40	1.82	1.57	10.25	46	35	46.47	58.01
60	2.72	3.33	10.25	46	35	48.22	59.77
80	3.63	5.67	10.25	46	35	50.56	62.11
100	4.54	8.57	10.25	46	35	53.46	65.01
120	5.45	12.01	10.25	46	35	56.90	68.45
140	6.35	15.97	10.25	46	35	60.86	72.41
160	7.26	20.45	10.25	46	35	65.34	76.89
180	8.17	25.43	10.25	46	35	70.32	81.87
200	9.08	30.90	10.25	46	35	75.79	87.34
220	9.99	36.86	10.25	46	35	81.75	93.30
240	10.89	43.29	10.25	46	35	88.18	99.73
260	11.80	50.20	10.25	46	35	95.09	106.64
280	12.71	57.58	10.25	46	35	102.47	114.02
300	13.62	65.42	10.25	46	35	110.31	121.86
320	14.53	73.71	10.25	46	35	118.61	130.15
340	15.43	82.46	10.25	46	35	127.35	138.90
360	16.34	91.66	10.25	46	35	136.55	148.10
380	17.25	101.30	10.25	46	35	146.19	157.74
400	18.16	111.39	10.25	46	35	156.28	167.83
420	19.06	121.91	10.25	46	35	166.80	178.35
440	19.97	132.86	10.25	46	35	177.76	189.30
460	20.88	144.25	10.25	46	35	189.14	200.69

3.78

cycles

Number of cycles per hour per pump during max flow

### G.

Diameter of Pump Inlet (in) d = 2.5

H (x) = 0.8 H(x) should be taller than the pump

H (min) = 2 (Operating Range)

H (lag) = 0.5 ( >= 6" Per 10 State Standards)

H (res) = 1 ( >= 12" Per 10 State Standards)

Sewer Invert to High Water **0.5** 

Float Elevations

 Bottom of Wetwell
 4.00

 Pump Off Elevation
 7.00

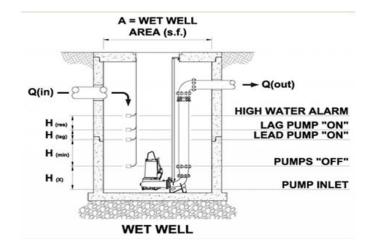
 Lead On
 9.00

 Both Pumps On
 9.50

 High Level Alarm
 10.50

 Invert Elevation
 11.00

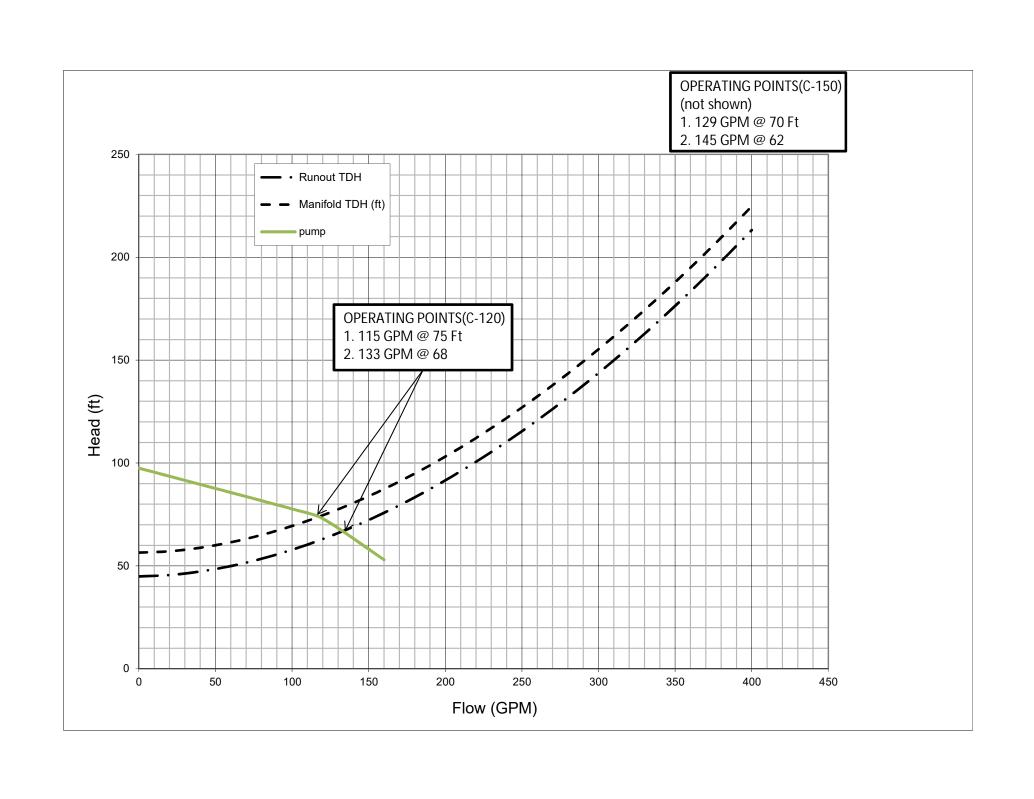
### **FLOAT CALCULATIONS**



$$H_{(X)} = D(1 + 2.3F_D)$$

Min. Submergeance to prevent cavitation

$$F_D = \frac{V}{(gD)^{0.5}}$$





Customer **Project name** 

: Default

Size : Hydromatic - HPGF/HPGFX-500

Stages

: 1 Based on curve number : SUB\_G\_O\_AH\_00002\_B\_4 Rev

2012-03-23

: 0.34 psi.a

Date last saved : 06 Dec 2018 8:18 AM

### **Operating Conditions**

Item number

Quote number

Service

Quantity

Flow, rated : 100.0 USgpm Differential head / pressure, rated (requested) : 69.00 ft : 77.69 ft Differential head / pressure, rated (actual) Suction pressure, rated / max : 0.00 / 0.00 psi.g NPSH available, rated : Ample Frequency : 60 Hz

**Performance** 

Speed, rated : 1750 rpm Impeller diameter, rated : 10.13 in Impeller diameter, maximum : 10.12 in Impeller diameter, minimum : 7.00 in Efficiency : -NPSH required / margin required : - / 0.00 ft

nq (imp. eye flow) / S (imp. eye flow) : 18 / - Metric units Minimum Continuous Stable Flow : 15.00 USgpm Head, maximum, rated diameter : 97.53 ft Head rise to shutoff : 25.54 % Flow, best eff. point : -Flow ratio, rated / BEP : -

Diameter ratio (rated / max) : 100.00 % Head ratio (rated dia / max dia) : 100.00 %

Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010] : 1.00 / 1.00 / 1.00 / 1.00

Selection status : Acceptable Liquid

Liquid type : Water Additional liquid description Solids diameter, max : 0.00 in Solids diameter limit : 0.00 in : 0.00 % Solids concentration, by volume Temperature, max : 68.00 deg F

Fluid density, rated / max : 1.000 / 1.000 SG Viscosity, rated : 1.00 cP

Vapor pressure, rated Material

Material selected : Standard

**Pressure Data** 

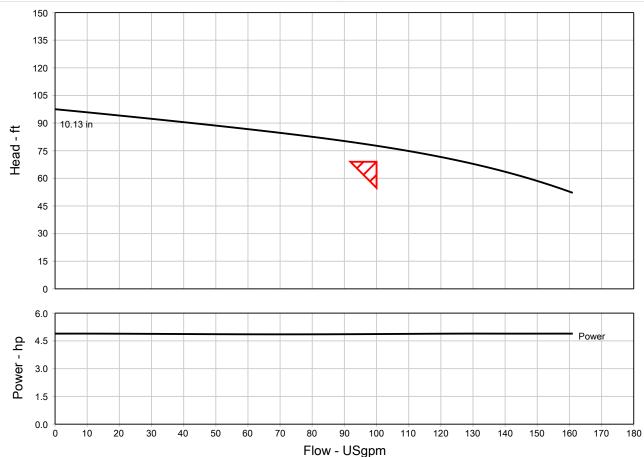
: 42.21 psi.g Maximum working pressure Maximum allowable working pressure : N/A Maximum allowable suction pressure : N/A : N/A Hydrostatic test pressure

**Driver & Power Data (@Max density)** 

Driver sizing specification : Maximum power

Margin over specification : 0.00 % Service factor : 1.20 Power, hydraulic : 1.96 hp Power, rated : 4.87 hp Power, maximum, rated diameter : 4.89 hp

Minimum recommended motor rating : 5.00 hp / 3.73 kW (Fixed)





**HYDROMATIC** PHONE: · FAX:

Input Parameters			
Diameter of Wet Well (WW)	4	ft	
Depth (Top to Bot of WW)	14.25	ft	
Volume of Concrete for Ballast	3	су	
Overhang (each side)	1	ft	

Input Parameters
<--- Number that will change (Start with a number from N
Note: Can start with the Volume of Concrete provided by

Volume of Concrete for Ballast		
Concrete Ballast	81.00	ft <sup>3</sup>
Total	81.00	ft <sup>3</sup>

Volume of Water Displaced		
Wet Well	179.07	ft <sup>3</sup>
Concrete Ballast	81.00	ft <sup>3</sup>
Total	260.07	ft <sup>3</sup>

Volume of Soil	
On Lip of Ballast	223.84 ft <sup>3</sup>

Weight Down Forces		
Concrete Ballast	12150.00	lb
Soil	8416.33	lb

Upward Forces (Buoyant Forces)		
Total Volume Displaced * WT Water	16228.42 lb	

Calculated Forces		
Total Downward Forces	20566	lb
Total Upward Forces(Buoyant Force)	16228	lb
SF	1.27	>1.25 = good

Unit Wt		
Water	62.4	lb/cf
Soil	100	lb/cf
Concrete	150	lb/cf



### MARTIN COUNTY ENGINEERING DEPARTMENT ENGINEER'S OPINION OF PROBABLE EXCAVATION, FILL, AND HAULING

(To be submitted with applications for Master Site Plan or Final Site Plan approval or Excavation and Fill Permits)

### NAME OF FINAL SITE PLAN: Treasure Coast Classical Academy If more than 10,000 cubic yards are hauled to or from the site, the application must be filed as a Major Development. TYPE OF APPLICATION 1) Net cubic yards to be excavated: 6,950 2) Net cubic yards to be filled: 23,700 3) Cubic yards to be hauled from site: 0 (subtract line 2 from line 1) TYPE OF APPLICATION: MAJOR HAULING FEE CALCULATION The hauling fee for fill hauled from the site is calculated at \$0.21 per cubic yard and is due upon approval of the Final Site Plan application or issuance of the Excavation and Fill Permit HAULING FEE: \$0.00 Prepared by: Jordan L. Haggerty, P.E Professional Engineer 80511 P.E. No. Kimley-Horn and Associates, Inc. Firm's Name and Certificate of Authorization No. (if applicable) 116 South Kentucky Ave, Lakeland, FL 33801 Address 863-701-8702 Phone No.

County Engineer's (or designee) Acceptance

Driftwood Cay Stuart, Florida

March 12, 2015 Dunkelberger Project No. HB145032

### Prepared for:

Medalist Building Group, LLC Stuart, Florida

### Prepared by:

Dunkelberger Engineering & Testing
A Terracon Company
Port St. Lucie, Florida

# **DUNKELBERGER** engineering & testing, inc.

A Terracon COMPANY

Environmental - Facilities - Geotechnical - Materials

March 12, 2015

### DUNKELBERGER engineering & testing, inc.

A lerracon COMPANY

Medalist Building Group, LLC PO Box 1067 Palm City, FL 34991

Attn: Mr. Jay D. Hansen

P: [772] 287-2010 F: [772] 287-4010

Re: Geotechnical Engineering Report

> **Driftwood Cay** Stuart, Florida

DUNKELBERGER Project Number: HB145032

Dear Mr. Hansen:

Dunkelberger Engineering and Testing, A Terracon Company (DUNKELBERGER) has completed the geotechnical engineering services for the above referenced project. This study was performed in general accordance with our proposal number PHB140174 dated October 9, 2014. Our agreement for services was signed by you on October 14, 2014.

This report presents the findings of the subsurface exploration and provides geotechnical recommendations concerning earthwork, the design and construction of the lift station foundation, pavements, and stormwater management design parameters for the proposed project.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning this report, or if we may be of further service, please contact us.

Sincerely,

**Dunkelberger Engineering and Testing, a Terracon Company** 

Brent M. Langlois, E.I. Project Geotechnical Engineer Douglas S. Dunkelberger, P.E. Principal FL Registration No. 33317



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# GEOTECHNICAL ENGINEERING REPORT DRIFTWOOD CAY STUART, FLORIDA

DUNKELBERGER Project No. HB145032 March 12, 2015

### 1.0 INTRODUCTION

This geotechnical engineering report has been prepared for the Driftwood Cay site which will be located in Stuart, Martin County, Florida. Seven (7) hand auger borings were drilled to depths of 5 to 6 feet below the existing ground surface and a single Standard Penetration Test (SPT) boring was drilled to a depth of 35 feet below the existing ground surface. Logs of the borings along with a Boring Location Diagram (*Exhibit A-3*) are included in *Appendix A* of this report. Laboratory testing procedures are included in *Appendix B*.

The purpose of these services is to provide information and geotechnical engineering recommendations relative to:

- subsurface soil conditions
- groundwater conditions
- foundation design and construction (lift station)
- lateral earth pressures

- pavement design and construction
- earthwork
- stormwater management design parameters

### 2.0 PROJECT INFORMATION

### 2.1 Project Description

Item	Description		
Site layout	The boring locations are superimposed on the conceptual site layout provided by Captec Engineering, Inc. See <i>Appendix A</i> , <i>Exhibit A-3: Boring Location Plan</i>		
Structure	The project will include a lift station and an internal roadway		
Bottom of Lift Station Elevation	19 feet below the existing ground surface		
Stormwater Management	Dry detention basins (1.09 acre +/-)		

Driftwood Cay Stuart, Florida

March 12, 2015 Dunkelberger Project No. HB145032



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### 2.2 Site Location and Description

Item	Description		
Location	The project will be located at the vacant lot southwest of Southeast Legacy Cove Circle and Southeast Cove R intersection in Stuart, Martin County, Florida. The lot is located the south of SE Cove Road.		
Current ground cover	Short to tall grasses with medium to dense vegetation.		
Existing topography	Based on the USGS Topographic Vicinity Map (included in <i>Appendix A</i> of this report as <i>Exhibit A-1</i> ), the site elevation ranges from about +15 to +18 feet (NGVD). The site contains 3.14 acres of wetlands. Spot elevations of the wetland areas obtained from Google Earth show bottom elevations between about +13 to +15 feet.		
Surface Water	No surface water was found near the boring locations during our field work in January 2015.		

### 3.0 SUBSURFACE CONDITIONS

The geology of the site is presented in the following report section. A discussion of subsurface conditions encountered in our borings follows the geology section.

### 3.1 Soil Survey

The Soil Survey of Martin County, Florida as prepared by the United States Department of Agriculture (USDA), Soil Conservation Service (SCS; later renamed the Natural Resource Conservation Service - NRCS), dated April 1979, identifies the primary soil type at the subject site as Waveland and Immokalee Fine Sand. It is noted that an area mapped as Waveland and Lawnwood Fine Sands, Depressional correlates with the wetland identified in the northwest quadrant of the site.

Waveland and Immokalee Fine Sand is typically described as 0 to 2 percent slopes, somewhat poorly drained sandy soils that are typically sands from 0 to 80 inches. Under natural (predevelopment) conditions, the Seasonal High Groundwater Table (SHGWT) is reported to exist between 6 to 18 inches from the ground surface.

Waveland and Lawnwood Fine Sands, Depressional is typically described as 0 to 2 percent slopes, very poorly drained sandy soils that are typically sands from 0 to 29 inches followed by loamy sand from 29 to 80 inches. Under natural (pre-development) conditions, the Seasonal High Groundwater Table (SHGWT) is reported to exist at the ground surface.

Driftwood Cay ■ Stuart, Florida

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It should be noted that the Soil Survey is not intended as a substitute for site-specific geotechnical exploration; rather it is a useful tool in planning a project scope in that it provides information on soil types likely to be encountered. Boundaries between adjacent soil types on the Soil Survey maps are approximate (included in *Appendix* as *Exhibit A-2*).

### 3.2 Historical Aerial Review

Historical aerial photographs from years 1940, 1970, 1995, 1999, 2003, 2005, 2010, and 2012 were reviewed. The site is not discernable in the 1940 aerial photograph; however, the general site area appears to be undeveloped. The 1970 aerial depicts the site relatively free of wooded vegetation with a wetland near its northwestern corner. The latter aerial photographs progressively show an increased growth of vegetation. Based on review of the aerials referenced above, the site's surface characteristics have not undergone significant changes to date except for clearing of vegetation.

### 3.3 Typical Profile

Based on the results of the borings, the generalized soil stratification is presented in the following table:

Stratum	Material Description	Unified Soil Classification System (USCS)	
Surface	Topsoil / Grasses	PT	
1	Gray or brown medium to fine SAND with traces of roots	SP	
2	Brown to dark brown slightly silty to silty medium to fine SAND	SP-SM/SM	
3	Dark brown silty fine SAND with roots, weakly cemented with an organic stain (hardpan)	SM	

In general, below the surficial topsoil and vegetation, the auger borings found relatively clean sands in the upper 4 feet followed by slightly silty to silty sands to a depth of 6 feet bls. Some of the borings encountered weakly cemented, silty sands locally referred to as hardpan between depths of three to five feet below land surface.

The single SPT boring disclosed about 5 feet of clean sands followed by slightly silty to silty sands to a depth of 18 feet bls with an intermediate 2-foot layer of clean sands at about 11 feet bls. At deeper depths, the boring disclosed clean sands to the termination depth of 40 feet bls. The SPT N-values indicate that the sands are generally medium dense in terms of relative density.

Conditions encountered at each boring location and results of laboratory testing are indicated on the Subsurface Profiles included in *Appendix A* as *Exhibit A-4*. Stratification boundaries on the

Driftwood Cay ■ Stuart, Florida

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boring logs represent the approximate location of changes in soil types; in-situ, the transition between materials may be gradual. Descriptions of our field exploration are included as *Exhibit A-5* in *Appendix A*. Descriptions of our laboratory testing procedures are included as *Exhibit B-1* in *Appendix B*.

### 3.4 Groundwater

The boreholes were observed during drilling for the presence and level of groundwater. Groundwater was observed in all of the borings between depths of 1½ and 4¾ feet below the existing ground surface. Longer term monitoring in cased holes or piezometers, potentially installed to greater depths than explored under this project scope, would be required to better define groundwater conditions at the site.

It should be recognized that fluctuations of the groundwater table will occur due to seasonal variations in the amount of rainfall, runoff and other factors not evident at the time the boring was performed. In addition, perched water can develop within higher permeability soils overlying less permeable soils. Therefore, groundwater levels during construction or at other times in the future may be higher or lower than the levels indicated on the boring logs.

### 4.0 RECOMMENDATIONS FOR DESIGN AND CONSTRUCTION

### 4.1 Geotechnical Considerations

Based on the results of the subsurface exploration, laboratory testing, and our evaluation, it is our opinion that the proposed lift station can be supported on a slab-type (mat) foundation. Seasonal high groundwater levels should be considered in the civil engineering design for site grading, excavation, and pavements.

The Stratum 3 hardpan encountered in the borings was tested in the laboratory to measure organic content. The laboratory test measured 8.7 percent organic matter. Common characteristics of hardpan include a dark, organic stain and an augmented organic content. In our opinion, the measured organic content is typical of hardpan soils found locally and will not be problematic for support of the planned construction.

Design and construction recommendations for the foundation system, pavements, and other earth connected phases of the project are outlined below.

Driftwood Cay ■ Stuart, Florida

March 12, 2015 ■ Dunkelberger Project No. HB145032



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### 4.2 Earthwork

### 4.2.1 Site Preparation

Prior to placing any fill, all vegetation, topsoil, muck, and any otherwise unsuitable material should be removed from the construction areas. Wet or dry material should either be removed or moisture conditioned and re-compacted. After stripping and grubbing and achieving cut grades, the exposed surfaces should be mechanically compacted where possible to locate loose or soft areas. For near-surface construction, a proof-rolling process using heavy, rubber-tired equipment is the most practical compaction process. Smaller, walk-behind type compaction equipment is anticipated for use at the bottom of the lift station excavation. Unstable soil (pumping) should be removed or moisture conditioned and compacted in place prior to placing fill.

### 4.2.2 Material Requirements

Engineered fill should meet the following material property requirements:

Fill Type	USCS Classification	Acceptable Location for Placement
General <sup>1</sup>	SP, SP-SM (fines content < 12 percent, maximum particle size < 2 inches, organic content < 3 percent)	All locations and elevations

<sup>1.</sup> Strata 1 and 2 soils at this site generally appear to meet these criteria. Soils with fines content > 12 percent may retain moisture and be difficult to compact and achieve specified density and stability. These soils may need to be maintained dry of optimum to properly compact.

### 4.2.3 Compaction Requirements-Mass Fill Areas

Item	Description		
Fill Lift Thickness	12 inches or less in loose thickness when heavy vibratory compaction equipment is used. Maximum particle size should not exceed 2 inches in a 12-inch lift.		
FIII LIII THICKNESS	4 to 6 inches in loose thickness when hand-guided equipment (i.e. jumping jack or plate compactor) is used. Maximum particle size should not exceed 1inch in a 4- to 6-inch lift.		
Minimum Compaction Requirements	Beneath the lift station footprint and more than one foot below pavement subgrade elevation should be compacted to at least 95 percent of the maximum dry density as determined by the Modified Proctor Test (ASTM D-1557). The upper one foot of pavement subgrades should be compacted to at least 98 percent of the maximum dry density as determined by the Modified Proctor Test (ASTM D-1557).		
Moisture Content <sup>1</sup>	Within ±2 percent of optimum moisture content as determined by the Modified Proctor test, at the time of placement and compaction		
Minimum Testing Frequency	One field density test per 2,500 square feet per lift and one test p 5,000 square feet of driveway pavement area.		

Driftwood Cay ■ Stuart, Florida

March 12, 2015 Dunkelberger Project No. HB145032



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	Description
ltem	I Description
ILCIII	Description

1 We recommend that engineered fill be tested for moisture content and compaction during placement. Should the results of the in-place density tests indicate compaction limits have not been met, the area represented by the test should be reworked and retested as required until the compaction requirements are achieved.

### 4.2.4 Utility Trench Backfill

All trench excavations should be made with sufficient working space to permit construction including backfill placement and compaction. Utility trenches are a common source of water infiltration and migration. All utility trenches that penetrate beneath the lift station foundation should be backfilled with native soils to avoid creating a preferred flow path through the trenches.

### 4.2.5 Earthwork Construction Considerations

After initial proofrolling and compaction, unstable subgrade conditions could develop during general construction operations, particularly if the soils are wetted and/or subjected to repetitive construction traffic. Upon completion of filling and grading, care should be taken to maintain the subgrade moisture content prior to construction of mat foundations and pavements. Construction traffic over the completed subgrade should be avoided to the extent practical. The site should also be graded to prevent ponding of surface water on the prepared subgrades or in excavations. If the subgrade should become desiccated, saturated, or disturbed, the affected material should be removed or these materials should be scarified, moisture conditioned, and re-compacted prior to floor slab and pavement construction.

DUNKELBERGER should be retained during the construction phase of the project to observe earthwork and to perform necessary tests and observations during subgrade preparation; proof-rolling; placement and compaction of controlled compacted fills; backfilling of excavations into the completed subgrade, and just prior to construction of building floor slabs.

### 4.3 Foundations

In our opinion, the proposed lift station can be supported by a mat foundation system bearing on firm, granular foundation soils. Our evaluation is based on mat foundation dimensions of 8 feet by 8 feet and the base of the mat constructed 19 feet below the existing ground surface. Design recommendations for the mat foundation for the proposed structure are presented in the following sections.

Description	Value	
Structure	Lift Station	
Foundation Type	Mat	
Bearing Material	<ul> <li>Suitable native soil anticipated to be relatively clean sand</li> </ul>	

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Description	Value	
Gross Allowable Bearing Pressure	<ul><li>3,000 pounds per square foot (psf)</li></ul>	
Total Estimated Settlement	< 1 inch	
Estimated Differential Settlement	< ½ inch over 8-foot span	

If soil conditions encountered differ significantly from those disclosed in the report, DUNKELBERGER should be notified, and supplemental recommendations will be required.

Uplift resistance can be developed from the effective weight of the foundation and the weight of any soils overlying the foundation. The maximum allowable uplift capacity should be taken as the sum of these two component divided by an appropriate factor of safety.

The base of all foundation excavations should be free of water and loose soil and debris prior to placing concrete. Concrete should be placed soon after excavating to reduce bearing soil disturbance. Should the soils at bearing level become excessively dry, disturbed or saturated, the affected soil should be removed or moisture conditioned and re-compacted prior to placing concrete. Unstable soils may be replaced with a minimum of 2 feet of coarse gravel (No. 57 stone) or lean concrete to form a firm foundation. It is recommended that the geotechnical engineer be retained to observe and test the soil foundation bearing materials.

### 4.4 Dewatering

Dewatering will be needed to facilitate construction of the lift station. We anticipate that due to the depth and size of the lift station excavation, traditional dewatering methods using well points and dewatering pumps will be required. In order to prepare the base of the excavation, the dewatering should be capable of lowering the groundwater level to at least two feet below the bottom of the excavation. Actual dewatering means and methods should be left up to a contractor experienced in installation and operation of dewatering systems. The contractor should provide a dewatering plan for review and approval by the engineer prior to the installation of the dewatering systems.

The contractor should consider and evaluate potential impacts on adjacent construction from groundwater drawdown.

### 4.5 Lateral Earth Pressures

Excavation support for the lift station construction should be designed using the soil parameters presented in the following table. Temporary surcharge and equipment loading cases should also be considered as part of this evaluation. Earth pressures will be influenced by structural design of the walls, conditions of wall restraint, methods of construction and/or compaction and the strength of the materials being restrained.

March 12, 2015 Dunkelberger Project No. HB145032



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Depth	USCS	SPT N-VALUE	Unit W	/eight (pcf)	Angle of Internal	Cohesion		th Pres oefficie	
(feet)		RANGE	Total	Submerged	Friction, φ (degrees)	(psf)	Ka	Kp	K <sub>o</sub>
0-5	SP	18	110	50	31	0	0.32	3.12	0.48
5-18	SP-SM / SM	12-22	100	40	29	0	0.35	2.88	0.52
18-38	SP	6-48	110	50	31	0	0.32	3.12	0.48

### 4.6 Pavements

For the purposes of the pavement design, we have assumed the roadway will be utilized by passenger vehicles and service trucks. The following parameters were considered in determining the recommended minimum pavement sections:

- Passenger Vehicle traffic frequency of 200 vehicles per day, 7 days per week, and 52 weeks per year
- Service Truck traffic frequency of 5 vehicles per day, 7 days per week, and 52 weeks per year
- Subgrade Resilient Modulus of 4,500 psi corresponding to a Limerock Bearing Ratio (LBR) of about 10.

The following minimum pavement sections correspond to a structural number of about 3.5

Minimum Flexible Pavement Section (inches)			
Layer Minimum Thickness			
Asphaltic Concrete (Type SP)	2		
Aggregate Base (LBR=100)	10		
Stabilized Subgrade (LBR=40)	12		

Minimum Rigid Pavement Section (inches)			
Layer Minimum Thickness			
Portland Cement Concrete	5		
Stabilized Subgrade (LBR=40)	12		

Driftwood Cay ■ Stuart, Florida

March 12, 2015 Dunkelberger Project No. HB145032



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The following items are applicable to asphalt concrete pavement sections.

- DUNKELBERGER recommends a minimum separation of 18 inches between the bottom of the base course and the seasonal high water table.
- Natural or fill subgrade soils to a depth of 18 inches below the base should be clean, free draining sands with a fines content passing a No. 200 sieve of 7 percent or less.
- Stabilized subgrade soils should be compacted to a minimum Limerock Bearing Ratio (LBR) value of 40 if they do not already meet this criterion, or modified/replaced with new compacted fill that meets the minimum LBR value.
- The stabilized subgrade course should be compacted to at least 98 percent of the Modified Proctor maximum dry density (AASHTO T-180 or ASTM D-1557).
- Limerock base courses from an approved FDOT source should have a minimum LBR value of 100, and be compacted to a minimum of 98 percent of the maximum dry density as determined by the Modified Proctor test. Limerock should be placed in uniform lifts not to exceed 6 inches loose thickness. Recycled limerock is not a suitable substitute for virgin limerock for base courses but may be used as a granular stabilizing admixture.
- Crushed (recycled) concrete base used in lieu of limerock base courses should meet the current FDOT specification 204 for recycled materials.
- Asphalt should be compacted to a minimum of 95 percent of the design mix density.

### 4.7 Stormwater Management

Design of the stormwater management system has not been completed yet, though we understand that a dry detention system is planned.

Two (2) Borehole Permeability (BHP) tests were completed at the site to evaluate the hydraulic conductivity characteristics of the upper 6 feet of the soil profile components. The tests were conducted in equipment accessible areas. Review of the provided conceptual site drawing shows the dry detention areas in the vicinities of AB-6, AB-7, and BHP-2. BHP-1 was conducted near the southwest corner of the site. The boring profiles at BHP-1 and AB-7 generally disclosed relatively clean sands extending to depths of 6 feet bls. The boring profiles disclosed at BHP-2 and AB-6 disclosed clean sands followed by a shallow layer of hardpan (Stratum 3), followed by slightly silty to silty sands. Hardpan is typically low in permeability, restrictive to the flow of groundwater, and commonly removed from beneath the bottoms of dry detention basins.

The permeability tests were conducted in a 4-inch diameter by 6-foot deep borehole whose sidewalls were stabilized with a 2-inch diameter partially perforated well screen and 6/20 silica sand. The "Usual Open Hole" and constant head test methodology as described by the South Florida Water Management District (SFWMD) was utilized for the hydraulic conductivity determination. The groundwater table was encountered at 4.8 feet and 3.9 feet bls during

Driftwood Cay ■ Stuart, Florida

March 12, 2015 Dunkelberger Project No. HB145032



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testing for BHP-1 and BHP-2, respectively. The locations of the BHP tests are shown in *Exhibit A-3*.

Results of the tests are presented in *Appendix B* as *Exhibit B-1* along with the pertinent stratigraphic, geometric and hydraulic conditions existing at the site. Review of the test results show that the hydraulic conductivity of the subsoils was 5.26 x 10<sup>-5</sup> and 7.25 x 10<sup>-5</sup> cubic feet per second per square foot per foot head (cfs/sf-ft) at the locations of BHP-1 and BHP-2, respectively.

The field permeability test depths were in a combination of clean (high permeability) sands (Stratum 1) and somewhat silty (low permeability) sands (Strata 2 and 3). The results were moderate values reflecting an average of the two different soil types. To evaluate the high permeability sands alone, laboratory permeability testing was run on a composite sample of Stratum 1 soils. Testing was performed over a range of dry densities to develop a relationship between permeability and density. Results of the laboratory testing are presented in the table below.

Test Number	Dry Density (pcf)	Laboratory Permeability (ft/s)	(1) Field Hydraulic Conductivity (cfs/sf/ft head)	(1) Field Permeability (ft/day)
1	97	4.02E-04	3.29E-04	28.5
2	101.9	2.36E-04	1.94E-04	16.7
3	103.2	2.28E-04	1.87E-04	16.1

<sup>(1)</sup> Estimated field rates from laboratory permeability tests.

The field hydraulic conductivity, as determined using SFWMD methodology, was estimated based on *Technical Publication 87-5 December 1987: Field Testing of Exfiltration Systems* by the SFWMD and our past experience with similar soil conditions. We recommend using a hydraulic conductivity value of 1.9E-04 cfs/sf/ft, or a permeability value of 16 feet per day, for design of the dry detention features. That would require removing Strata 2 and 3 soils from beneath the dry detention areas and replacing them with Stratum 1 soils. The depth of removal should be consistent with the thickness of the transmissive zone used in the drainage recovery model.

Driftwood Cay ■ Stuart, Florida

March 12, 2015 Dunkelberger Project No. HB145032



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### 5.0 GENERAL COMMENTS

DUNKELBERGER should be retained to review the final design plans and specifications so comments can be made regarding interpretation and implementation of our geotechnical recommendations in the design and specifications. DUNKELBERGER also should be retained to provide observation and testing services during grading, excavation, foundation construction and other earth-related construction phases of the project.

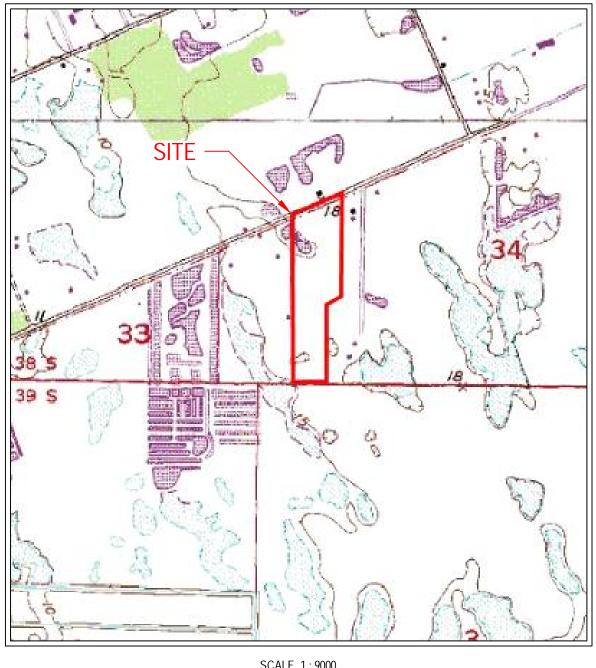
The analysis and recommendations presented in this report are based upon the data obtained from the borings performed at the indicated locations and from other information discussed in this report. This report does not reflect variations that may occur between borings, across the site, or due to the modifying effects of construction or weather. The nature and extent of such variations may not become evident until during or after construction. If variations appear, we should be immediately notified so that further evaluation and supplemental recommendations can be provided.

The scope of services for this project does not include either specifically or by implication any environmental or biological (e.g., mold, fungi, and bacteria) assessment of the site or identification or prevention of pollutants, hazardous materials or conditions. If the owner is concerned about the potential for such contamination or pollution, other studies should be undertaken.

This report has been prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted geotechnical engineering practices. No warranties, express or implied, are intended or made. Site safety, excavation support, and dewatering requirements are the responsibility of others. In the event that changes in the nature, design, or location of the project as outlined in this report are planned, the conclusions and recommendations contained in this report shall not be considered valid unless DUNKELBERGER reviews the changes and either verifies or modifies the conclusions of this report in writing.

# APPENDIX A FIELD EXPLORATION

### UNITED STATES - DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY



SCALE 1:9000

CONTOUR INTERVAL 5 FEET NATIONAL GEODETIC VERTICAL DATUM OF 1929

STUART, FLORIDA 1949; PHOTO REVISED 1983 7.5 MINUTE SERIES (TOPOGRAPHIC)

Martin County

Project Mngr:	BML	Pi
Drawn By:	BML	Sı
Checked By:	BML	Fi

Approved By:

Project No.	HB145032
Scale:	AS SHOWN
File No.	-
Date:	1/13/15

<b>DUNKELBERGER</b> engineering & testing, inc.
A TECCATOR COMPANY

A	CITACON COMPANY
607 NW COMMODITY COVE	PORT ST. LUCIE, FL 34986
PH. (772) 343-9787	FAX. (772) 343-9404

TOPOGRAPHIC VICINITY MAP
GEOTECHNICAL SITE EXPLORATION
MEDALIST BLIII DING CROUD LL

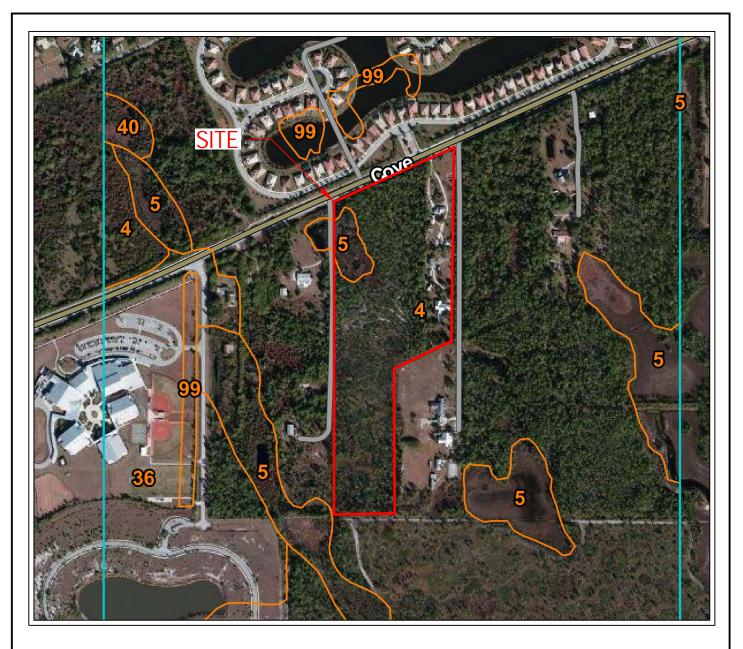
DRIFTWOOD CAY

TECHNICAL SITE EXPLORATION	
ST BUILDING GROUP, LLC.	
DDIETWOOD CAV	

**EXHIBIT** 

N

Florida





### SOIL LEGEND

- 4 WAVELAND AND IMMOKALEE FINE SAND
- 5 WAVELAND AND LAWNWOOD FINE SANDS, DEPRESSIONAL

U.S.D.A. SOIL SURVEY FOR MARTIN COUNTY, FLORIDA ISSUED: JANUARY 1987

Martin County



Project Mngr:	BML
Drawn By:	BML
Checked By:	BML
Approved By:	DSD

Project No.	HB145032
Scale:	AS SHOWN
File No.	-
Date:	1/13/15

DUNKELBERGER
engineering & testing, inc.

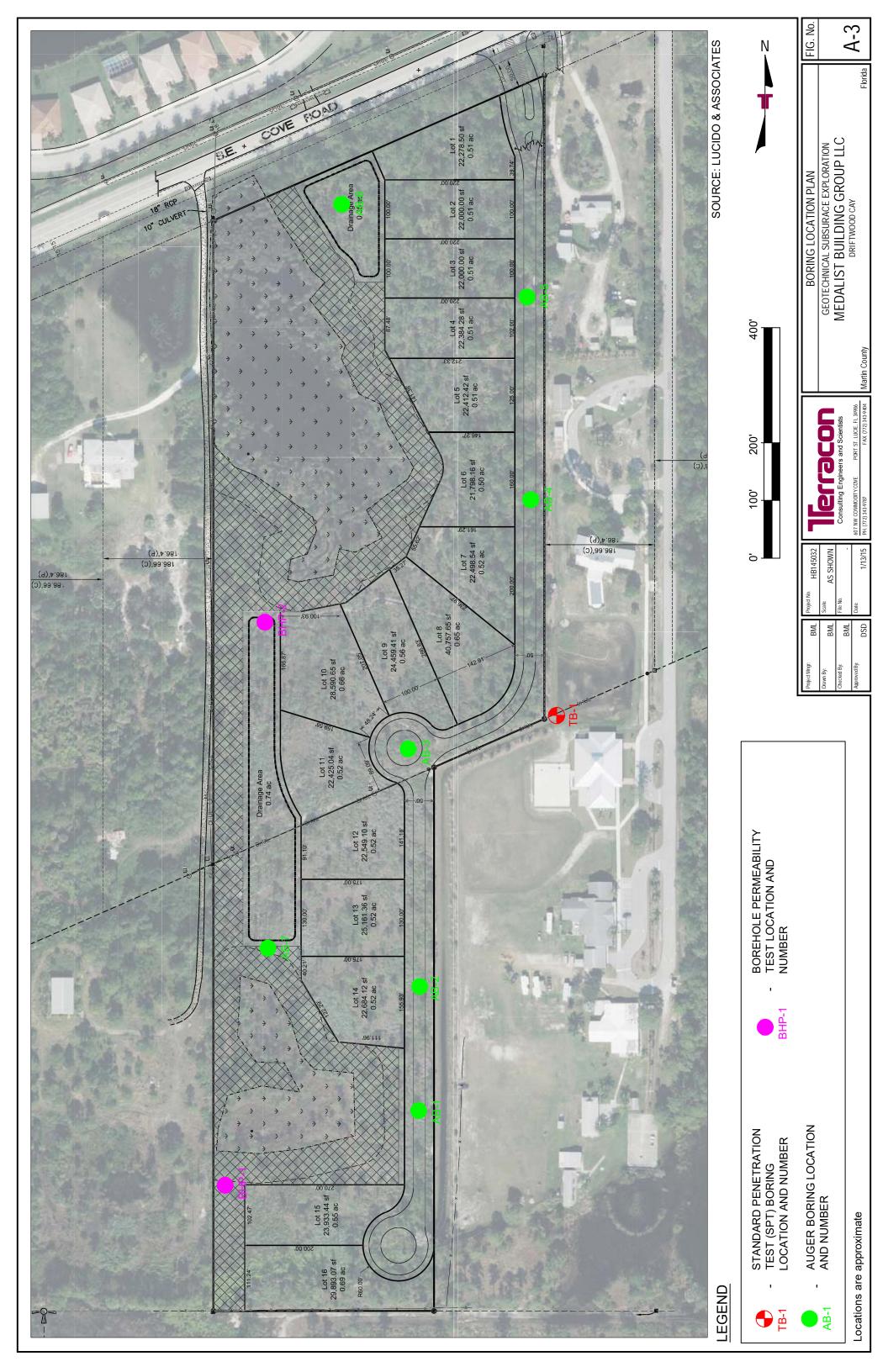
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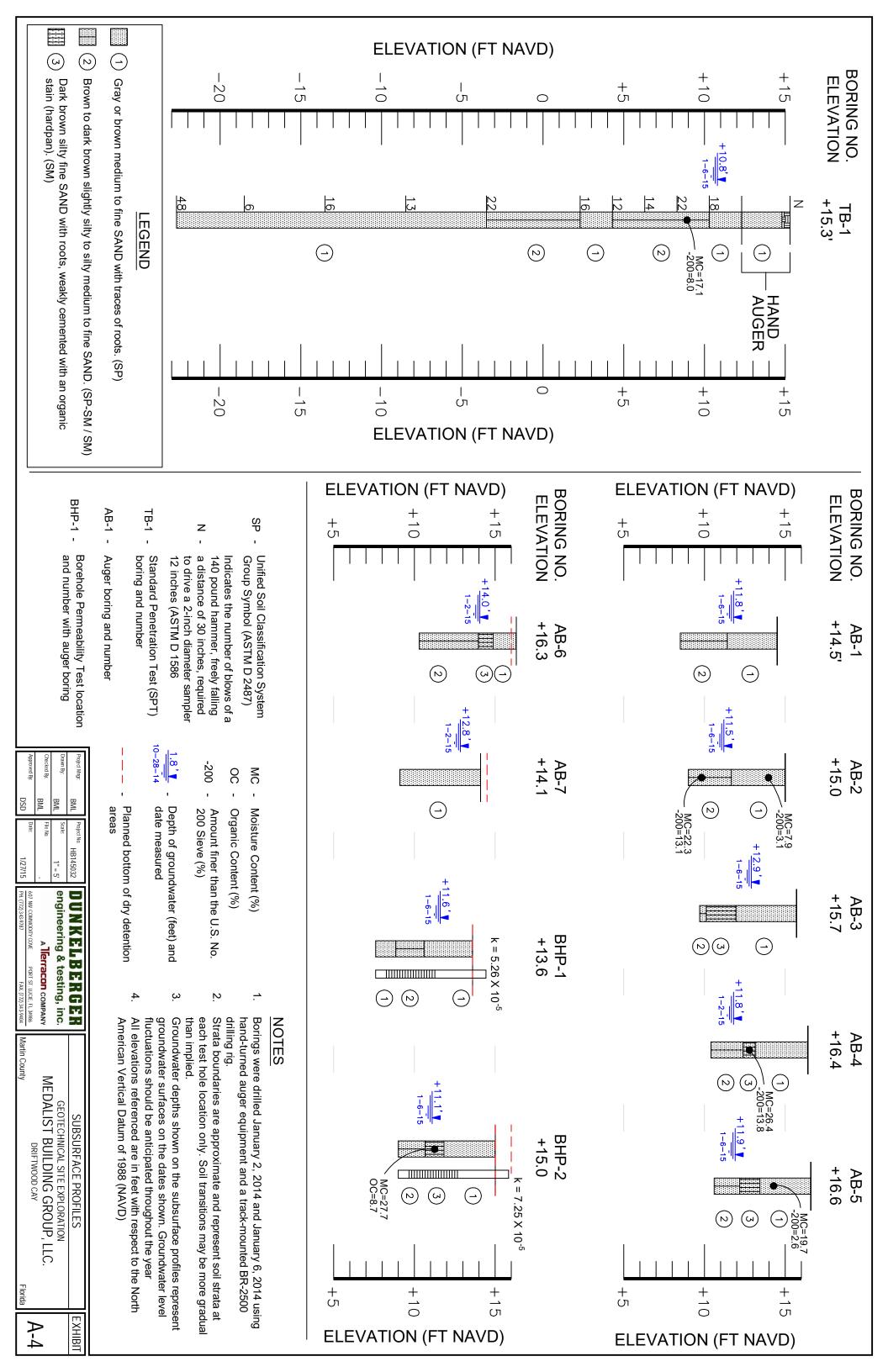
607 NW COMMODITY COVE PORT ST. LUCIE, FL 34986
PH. (772) 343-9787 FAX. (772) 343-9404

	SOILS MAP
C	GEOTECHNICAL SITE EXPLORATION
MEDA	ALIST BUILDING GROUP, LLC.
	DRIFTWOOD CAY

EXHIBIT

| A-2





#### **Geotechnical Engineering Report**

Driftwood Cay Stuart, Florida

March 12, 2015 Dunkelberger Project No. HB145032

#### **Field Exploration Description**

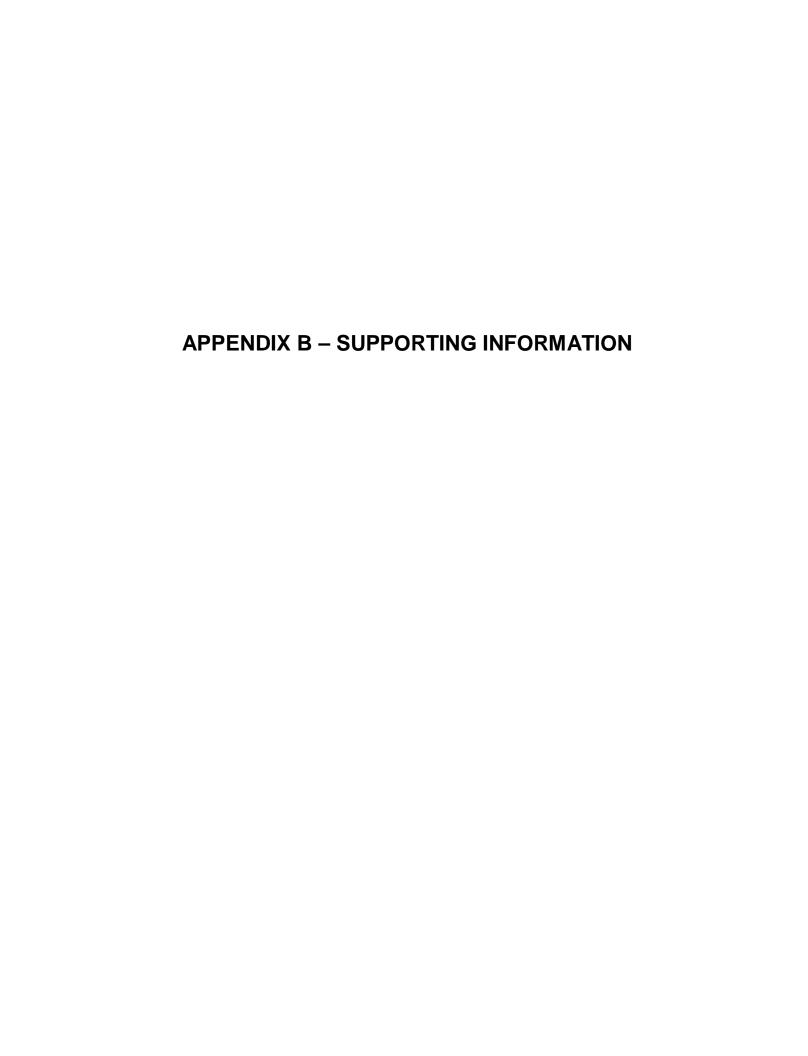
The boring locations were laid out at the project site by DUNKELBERGER personnel. The locations indicated on the attached diagram are approximate and were measured by pacing distances and estimating right angles, across vegetated/wooded terrain. The locations of the borings should be considered accurate only to the degree implied by the means and methods used to define them.

Auger borings were drilled using hand turned augering equipment. Samples of the soils were collected from the auger bucket, placed in plastic bags, labeled, and transported to our laboratory for visual-manual classification by a geotechnical engineer.

The SPT soil boring was drilled with a truck-mounted, rotary drilling rig equipped with an automatic hammer. The borehole was advanced with a cutting head and stabilized with the use of bentonite (drillers' mud). Soil samples were obtained by the split spoon sampling procedure in general accordance with the Standard Penetration Test (SPT) procedure. In the split spoon sampling procedure, the number of blows required to advance the sampling spoon the last 12 inches of an 18-inch penetration or the middle 12 inches of a 24-inch penetration by means of a 140-pound hammer with a free fall of 30 inches, is the standard penetration resistance value (N). This value is used to estimate the in-situ relative density of cohesionless soils and the consistency of cohesive soils. The sampling depths and penetration distance, plus the standard penetration resistance values, are shown on the boring logs.

Portions of the samples from the boring were sealed in glass jars to reduce moisture loss, and then the jars were taken to our laboratory for further observation and classification. Upon completion, the boreholes were backfilled with the site soil.

Field logs of the borings were prepared by the drill crew. The logs include visual classifications of the materials encountered during drilling as well as the driller's interpretation of the subsurface conditions between samples. The boring logs included with this report represent an interpretation of the field log and includes modifications based on laboratory observation of the samples.



#### **Geotechnical Engineering Report**

Driftwood Cay ■ Stuart, Florida

March 12, 2015 Dunkelberger Project No. HB145032

#### **Laboratory Testing**

During the field exploration, a portion of each recovered sample was sealed in a glass jar and transported to our laboratory for further visual observation and laboratory testing. Selected samples retrieved from the boring was tested for moisture (water) content, fines content (soil passing a US standard #200 sieve), and organic content. Those results are included in this report and on the respective boring log. The visual-manual classifications were modified as appropriate based upon the laboratory testing results.

The soil samples were classified in general accordance with the appended General Notes and the Unified Soil Classification System based on the material's texture and plasticity. The estimated group symbol for the Unified Soil Classification System is shown on the boring logs and a brief description of the Unified Soil Classification System is included in Appendix B.

# APPENDIX C SUPPORTING DOCUMENTS

#### **GENERAL NOTES**

#### DRILLING & SAMPLING SYMBOLS:

SS:	Split Spoon - 1-3/8" I.D., 2" O.D., unless otherwise noted	HS:	Hollow Stem Auger
ST:	Thin-Walled Tube – 2" O.D., 3" O.D., unless otherwise noted	PA:	Power Auger (Solid Stem)
RS:	Ring Sampler - 2.42" I.D., 3" O.D., unless otherwise noted	HA:	Hand Auger
DD.	Diamana d Dit Carina at All N. D.	DD.	D1. D#

DB: Diamond Bit Coring - 4", N, B RB: Rock Bit

WB BS: Bulk Sample or Auger Sample Wash Boring or Mud Rotary

#### WATER LEVEL MEASUREMENT SYMBOLS:

WL:	Water Level	WS:	While Sampling	N/E:	Not Encountered
WCI:	Wet Cave in	WD:	While Drilling	ESH:	Estimated Seasonal High Groundwater
DCI:	Dry Cave in	BCR:	Before Casing Removal	ESL:	Estimated Seasonal Low Groundwater

AB: After Boring ACR: After Casing Removal

Water levels indicated on the boring logs are the levels measured in the borings at the times indicated. Groundwater levels at other times and other locations across the site could vary. In pervious soils, the indicated levels may reflect the location of groundwater. In low permeability soils, the accurate determination of groundwater levels may not be possible with only short-term observations.

DESCRIPTIVE SOIL CLASSIFICATION: Soil classification is based on the Unified Soil Classification System. Coarse Grained Soils have more than 50% of their dry weight retained on a #200 sieve; their principal descriptors are: boulders, cobbles, gravel or sand. Fine Grained Soils have less than 50% of their dry weight retained on a #200 sieve; they are principally described as clays if they are plastic and silts if they are slightly plastic or non-plastic. Major constituents may be added as modifiers and minor constituents may be added according to the relative proportions based on grain size. In addition to gradation, coarse-grained soils are defined on the basis of their in-place relative density and fine-grained soils on the basis of their consistency.

#### CONSISTENCY OF FINE-GRAINED SOILS

#### RELATIVE DENSITY OF COARSE-GRAINED SOILS

<u>Unconfined</u>	<u>Standard</u>		Standard Penetration	
Compressive	Penetration or N-	<u>Consistency</u>	<u>or N-value (SS)</u>	Relative Density
Strength, Qu, psf	value (SS)		Blows/Ft.	
< 500	0 – 1	Very Soft	0 - 3	Very Loose
500 - 1,000	2 - 3	Soft	4 – 9	Loose
1,000 - 2,000	4 – 6	Medium Stiff	10 – 29	Medium Dense
2,000 - 4,000	7 – 12	Stiff	30 - 50	Dense
4,000 - 8,000	13 – 26	Very Stiff	> 50	Very Dense
8.000+	> 26	Hard		

#### RELATIVE PROPORTIONS OF SAND AND GRAVEL

#### **GRAIN SIZE TERMINOLOGY**

PLASTICITY DESCRIPTION

<u>Descriptive Term(s)</u> of other constituents	<u>Percent of</u> <u>Dry Weight</u>	<u>Major Component</u> <u>of Sample</u>	Particle Size
Trace	< 15	Boulders	Over 12 in. (300mm)
With	15 – 29	Cobbles	12 in. to 3 in. (300mm to 75mm)
Modifier	≥ 30	Gravel	3 in. to #4 sieve (75mm to 4.75mm)
		Sand	#4 to #200 sieve (4.75 to 0.075mm)
		Silt or Clay	Passing #200 Sieve (0.075mm)

#### RELATIVE PROPORTIONS OF FINES

Descriptive Term(s) of other constituents	Percent of Dry Weight	<u>Term</u>	Plasticity Index
Trace	< 5	Non-plastic	0
With	5 – 12	Low	1 – 10
Modifier	> 12	Medium	11 - 30
		High	> 30

Rev. 4/10

#### UNIFIED SOIL CLASSIFICATION SYSTEM Soil Classification Criteria for Assigning Group Symbols and Group Names Using Laboratory Tests A Group Group Name B **Symbol** $Cu \ge 4$ and $1 \le Cc \le 3^E$ GW Well-graded gravel F Clean Gravels: Gravels: Less than 5% fines <sup>C</sup> Cu < 4 and/or 1 > Cc > 3 E GP Poorly graded gravel More than 50% of Silty gravel F,G,H coarse fraction retained Fines classify as ML or MH GM **Gravels with Fines:** Coarse Grained Soils: on No. 4 sieve More than 12% fines $^{\mbox{\scriptsize C}}$ Clayey gravel F,G,H Fines classify as CL or CH GC More than 50% retained $Cu \ge 6$ and $1 \le Cc \le 3^E$ SW Well-graded sand Clean Sands: Sands: on No. 200 sieve Less than 5% fines D Poorly graded sand I Cu < 6 and/or 1 > Cc > 3<sup>E</sup> SP 50% or more of coarse Silty sand G,H,I fraction passes No. 4 Fines classify as ML or MH SM Sands with Fines: sieve More than 12% fines D Clayey sand G,H,I Fines classify as CL or CH SC Lean clay K,L,M PI > 7 and plots on or above "A" line CL Inorganic: Silt K,L,M Silts and Clavs: PI < 4 or plots below "A" line ML Organic clay K,L,M,N Liquid limit less than 50 Liquid limit - oven dried OL Organic: < 0.75 **Fine-Grained Soils:** Organic silt K,L,M,O Liquid limit - not dried 50% or more passes the Fat clay K,L,M PI plots on or above "A" line CH No. 200 sieve Inorganic: PI plots below "A" line МН Elastic Silt K,L,M Silts and Clays: Organic clay K,L,M,F Liquid limit 50 or more Liquid limit - oven dried Organic: < 0.75 ОН

Primarily organic matter, dark in color, and organic odor

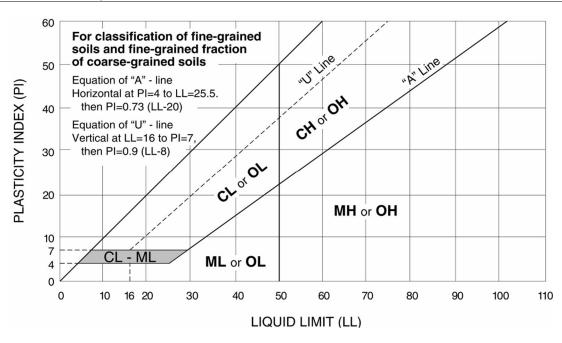
<sup>E</sup> Cu = 
$$D_{60}/D_{10}$$
 Cc =  $\frac{(D_{30})^2}{D_{10} \times D_{60}}$ 

Highly organic soils:

РΤ

Organic silt K,L,M,Q

Liquid limit - not dried



<sup>&</sup>lt;sup>A</sup> Based on the material passing the 3-inch (75-mm) sieve

<sup>&</sup>lt;sup>B</sup> If field sample contained cobbles or boulders, or both, add "with cobbles or boulders, or both" to group name.

<sup>&</sup>lt;sup>C</sup> Gravels with 5 to 12% fines require dual symbols: GW-GM well-graded gravel with silt, GW-GC well-graded gravel with clay, GP-GM poorly graded gravel with silt, GP-GC poorly graded gravel with clay.

graded gravel with silt, GP-GC poorly graded gravel with clay.

Description Sands with 5 to 12% fines require dual symbols: SW-SM well-graded sand with silt, SW-SC well-graded sand with clay, SP-SM poorly graded sand with silt, SP-SC poorly graded sand with clay

 $<sup>^{\</sup>text{F}}$  If soil contains  $\geq$  15% sand, add "with sand" to group name.

 $<sup>^{\</sup>rm G}$  If fines classify as CL-ML, use dual symbol GC-GM, or SC-SM.

<sup>&</sup>lt;sup>H</sup> If fines are organic, add "with organic fines" to group name.

<sup>&</sup>lt;sup>1</sup> If soil contains ≥ 15% gravel, add "with gravel" to group name.

J If Atterberg limits plot in shaded area, soil is a CL-ML, silty clay.

K If soil contains 15 to 29% plus No. 200, add "with sand" or "with gravel," whichever is predominant.

 $<sup>^</sup>L$  If soil contains  $\geq 30\%$  plus No. 200 predominantly sand, add "sandy" to group name.

M If soil contains ≥ 30% plus No. 200, predominantly gravel, add "gravelly" to group name.

 $<sup>^{</sup>N}$  PI  $\geq$  4 and plots on or above "A" line.

 $<sup>^{\</sup>text{O}}$  PI < 4 or plots below "A" line.

P PI plots on or above "A" line.

Q PI plots below "A" line.

September 20, 2018



Medalist Building Group, LLC PO Box 1067 Palm City, FL 34991

Attn: Ms. Ella Donaho Taylor

Director of Land Planning

P: 772-287-2010 E: Irepetti@martin.fl.us

Re: Estimated Seasonal High Groundwater Level (SHGWL)

Treasure Coast Classical Academy Stuart, Martin County, Florida

Terracon Project Number: HB185032

Dear Ms. Donaho:

Terracon Consultants, Inc. (Terracon) has completed geotechnical engineering services for the above referenced project in general accordance with our Proposal and Agreement for Services (Reference No. HB185032) dated September 10, 2018.

This report presents the estimated Seasonal High Groundwater Level (SHGWL) at the location of two dry retention lakes for proposed project site.

#### **Project Information**

The project site is located at 1400 Southeast Cove Road in Stuart, Martin County, Florida. The site encompasses approximately 22 acres of vegetated, undeveloped land. Vegetation across the site generally consists of pine trees, palm trees, and saw palmettos bushes in upland areas. Site features also include wetlands located at the northwest and southwest corners of the site. The proposed project will consist of the construction of a new two-story charter school building, associated drive and parking areas, and stormwater dry retention areas.

The purpose of our work is to provide preliminary foundation recommendations associated with the new two-story charter school building as well as estimate the SHGWL to assist in design of the stormwater dry retention ponds. This report discusses the estimated SHGWL at the location of two dry retention areas. The preliminary foundation recommendations for the new charter school building were provided in our report dated September 13, 2018 (Reference Preliminary Foundations Construction & Design Recommendations).



Terracon Consultants, Inc. 645 N.W. Enterprise Drive, Suite 107 Port St. Lucie, Florida 34986
P [772] 343 9787 F [772] 343 9404 terracon.com

#### Estimated Seasonal High Groundwater Level (SHGWL) Letter

Treasure Coast Classical Academy ■ Stuart, Florida September 20, 2018 ■ Terracon Project No. HB185032

#### **Previous Geotechnical Study at Site**

Terracon (formerly known as Dunkelberger Engineering & Testing), performed a geotechnical engineering study at the site which was previously identified as Driftwood Cay in circa 2015. The Driftwood Cay project site plans were to construct single-family residential structures; however, those plans have been abandoned. Our work involved drilling test borings and performing field permeability tests. The work was performed on a preliminary basis to provide foundation recommendations for a proposed lift station, pavement recommendations for the internal roadway, and hydraulic conductivity measurements for the stormwater dry detention ponds. Results of this study can be found in our Geotechnical Engineering Report (Reference No. HB145032), dated March 12, 2015.

#### **Piezometers**

On September 12, 2018, two (2) temporary piezometers were installed on site at locations selected by Kimley-Horn & Associates. The piezometers, designated PZ-1 and PZ-2, were installed using hand-turned augering tools to depths of 4 feet below the existing ground surface. The piezometers consisted of 2-inch diameter fully slotted PVC pipe. The annular space between the piezometer well screen and the borehole sidewalls was filled with 6/20 silica sand from the bottom of the borehole to the top of the well screen. The sand filter was sealed using about 6 inches of bentonite chips (to provide a low permeability seal) at the existing ground surface.

The subsurface conditions found at each piezometer location generally consisted of relatively clean sands (SP) to a depth of 4 ½ feet except for a dark brown slightly silty fine sand (SP-SM) with weak cementation and an organic stain (locally referred to as Hardpan) between 3 and 4 feet below the existing ground surface. It should be noted that the hardpan is generally restrictive to vertical infiltration and often creates a perched groundwater condition where the groundwater mounds on top of the hardpan.

#### Estimated Seasonal High Groundwater Level (SHGWL) Letter

Treasure Coast Classical Academy Stuart, Florida September 20, 2018 Terracon Project No. HB185032

#### **Estimated Seasonal High Groundwater Level (SHGWL)**

Groundwater data collected from recently installed piezometers as well as borings performed during our previous geotechnical study is summarized below.

(1)Boring or	(2)Nearby Dry	Ground Surface	Groundw	ater Elevation (Fe	eet- NAVD)
Piezometer ID	Retention Area Number	Elevation (Feet – NAVD)	January 6, 2015	September 12, 2018	September 14, 2018
AB-1	3	+14.5	+11.8	-	-
BHP-1	3	+13.6	+11.6	-	-
AB-3	2	+15.7	+12.9	-	-
TB-1	2	+15.3	+10.8	-	-
PZ-1	2	+15.4	-	+13.7	+13.5
PZ-2	3	+14.0	-	+12.5	+12.3

<sup>(1)</sup> Data for AB-1, BHP-1, AB-3, and TB-1 was obtained from our previous geotechnical engineering study. This data can be found in our Geotechnical Engineering Report (Reference No. HB145032), dated March 12, 2015

The Seasonal High Groundwater Level (SHGWL) was researched at the site based on the groundwater data shown above as well as historical and recent rainfall data. The Seasonal High Groundwater Level (SHGWL) is considered to be the highest sustained groundwater elevation during a typical (normal or average rainfall amount) wet season and not the peak groundwater elevation immediately following a major storm event. Therefore, the SHGWL referred to in this letter is an average, high value and not necessarily a peak (upper bound) value. The SHGWL generally occurs at the end of the wet season which the South Florida Water Management District (SFWMD) identifies as the four months of June through September.

The best and most accurate method of determining the SHGWL is to obtain real-time, site-specific groundwater data through an entire hydro period (dry and wet seasons) during a year with normal rainfall. However, due to the project's design schedule, this was not feasible. The groundwater data collected in this most recent study was at specific dates in January of 2015 and September of 2018.

The South Florida Water Management District's (SFWMD) website was utilized to gather data of historic and recent rainfall for Martin County.

<sup>(2)</sup> According to the Paving, Grading, and Drainage Plan by Kimley-Horn and Associates, dated August 2018

#### Estimated Seasonal High Groundwater Level (SHGWL) Letter

Treasure Coast Classical Academy ■ Stuart, Florida September 20, 2018 ■ Terracon Project No. HB185032

In review of the rainfall data for Martin County, the wet season (June through September) of this year shows 22.4 inches which is about 91% of the historical 30-year average (1986 to 2015). Rainfall for the month of September through the 17<sup>th</sup> shows 2.1 inches which is about 68% of the historical average. The data above suggests that we are generally having an average rainfall wet season, although so far through the month of September, we are slightly less wet

The following table shows the estimated SHGWL at each piezometer installed at the two dry retention areas based on the site groundwater data and our review of rainfall data. The estimate represents an approximate 6 to 12 inch rise above the recently collected September groundwater measurements. The areas are identified on the Paving, Grading, and Drainage Plan by Kimley-Horn and Associates, dated August 2018. It is important to note that peak levels can exceed the SHGWL estimate.

Piezometer ID	Location	Ground Elevation (Feet NAVD)	September 2018 Groundwater Elevation Measured on Site (Feet NAVD)	Estimated SHGWL (Feet NAVD)
PZ-1	Dry Retention Lake 2	+15.4	+13.5	+14 to +14 ½
PZ-2	Dry Retention Lake 3	+14.0	+12.3	+13 to +13 ½

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning this report, or if we may be of further service, please contact us.

Sincerely,

Terracon Consultants, Inc.

Brent M. Langlois, P.E. Project Engineer FL Registration No. 81336 Douglas S. Dunkelberger, P.E. Principal FL Registration No. 33317

To the best of my knowledge and belief, there have been no transfers of the subject property since the deed into Driftwood Cay Of Stuart, LLC was recorded in the Martin County Public Records.

(Print Name Beneath Signature) NOTARY PUBLIC

MY COMMISSION EXPIRES:





213 E. OCEAN BLVD. STUART, FL. 34994

Phone: (772) 286-9310 Fax: (772) 286-9312 SFTS@BellSouth.net

Re: Treasure Coast Classical Academy

To Whom it may concern:

I hereby certify the attached list to be all property owners lying within a distance of 500 feet of the boundaries of the property described in Exhibit "A" attached hereto, as reflected by the Public Records of Martin County, Florida and effective November 30, 2018.

Dated this 10th day of December, 2018.

Jill A. Brotherton

President

# Exhibit "A" (Disclosure of Interest and Affidavit) (Legal Description)

Being a Parcel of land, said Parcel being a portion of lot's 6 and 7 as shown on the Plat of Wa-Co Field Place as recorded in Plat Book 5,Page 62, Public Records of Palm Beach (now Martin) County, Florida, said Parcel also being a portion of the Southwest One Quarter of Section 34, Township 38 South, Range 41 East, said Parcel being more particularly described as follows:

Commence at the Point of intersection of the Southerly Right-of-Way line of Cove Road as established from the Right-of-Way Map prepared by Keith and Schnars, Inc. dated October 20, 1989 and the Westerly Line of Lot 5 as shown on said Plat of Wa-Co Field Place; Thence North 66°12'15" East, along said Southerly Right-of-Way line a distance of 491.98 feet to the Point of Beginning of the following described Parcel; Thence continue along said Southerly Right-of-Way line, North 66°12'15" East, a distance of 118.88 feet to the East line of Lot 7 of said Wa-Co Field Place; Thence departing said Southerly Right-of-Way line, South 00°12'05" East, along the said East line of Lot 7 a distance of 1087.16 feet to the Southerly line of said Lot 7; Thence South 66°12'38" West, along said Southerly line a distance of 203.91 feet to the West line of said Lot 7; Thence departing said Southerly line, South 00°11'30" East along the Southerly prolongation of the West line of said lot 7, a distance of 914.12 to the South line of the Southwest One Quarter of Said Section 34; Thence North 89°29'09" West along the South line of said Southwest One Quarter a distance of 373.89 feet; Thence departing said South line, North 00°10'19" West, along the Southerly prolongation of the Westerly line of said Lot 5, a distance of 608.56 feet; Thence North 89° 08'43" West, a distance of 148.50 feet; Thence North 00°08'43" West, a distance of 209.52 feet to the South line of Lot 5 of said Wa-Co Field Place; Thence North 66°12'38" East, along the South line of said Lot 5 a distance of 41.63 feet to the East line of said Lot 5; Thence North 00°10'56" West, along said East line a distance of 879.05 feet; Thence Departing said East line, North 73°14'56" East, a distance of 337.23 feet; Thence North 00° 12'05" West, a distance of 103.95 feet to the Beginning of a curve concave to the southwest having a radius of 135.00 feet; Thence Northwesterly along the arc of said curve through a central angle of 28°20'46" a distance of 66.79 feet to the Point of Reverse Curvature of a curve concave to the Northeast having a radius of 165.00 feet; Thence Northerly along the arc of said curve through a central angle of 16°36'42" a distance of 47.84 feet; Thence North 61°02'01" West, non-tangent to the last described curve a distance of 30.26 feet to the Southerly Right-of-Way of said Cove Road and the Point of Beginning.

Containing 14.22 acres, more or less

Alfredo A & Maria Ferrari 16323 Segovia Cir. Pembroke Pines, Fl. 33331

Vicki L. Linman 1262 SE Illusion Isle Way Stuart, Fl. 34997

Otto Andrew & Rachelle R. Bates 1441 SE Legacy Cove Cir. Stuart, Fl. 34997

Roger F. & Sandra C. Brown 1445 SE Legacy Cove Cir. Stuart, Fl. 34997

Dena M. Thomas & Scott Feinberg 1449 SE Legacy Cove Cir. Stuart, Fl. 34997

Maximillan & Cassandrea Koessick 1453 SE Legacy Cove Cir. Stuart, Fl. 34997

Christopher & Dianna Tetters Revoc. Tr 7347 SE Legacy Cove Cir. Stuart, FI 34997

Terry J. & Anne McErlean 1439 SE Legacy Cove Cir. Stuart, Fl. 34997

William & Donna Piper 1435 SE Legacy Cove Cir. Stuart, Fl. 34997

Terry W. & Marion L. Garnett Revoc. Tr. 1431 SE Legacy Cove Cir. Stuart, Fl. 34997

Douglas R. & Gail D. Banks 1260 SE Illusion Isle Way Stuart, Fl. 34997

Romauald Pryputniewicz 1785 NW Harbor Pl. Stuart, Fl. 34994

Benjamin Shatkun and Rachel Barouh 1443 SE Legacy Cove Cir. Stuart, Fl. 34997

David Kinsey 1447 SE Legacy Cove Cir. Stuart, Fl. 34997

Bradley & Ashley Warfield 1451 SE Legacy Cove Cir. Stuart, Fl. 34997

Joseph M. Busweiler and Joanne Mazzola 7325 SE Legacy Cove Cir. Stuart, Fl. 34997

Cove Isle Community Assn. 759 SW Federal Hwy, #316 Stuart, Fl. 34994

Eleonora C. & Edward N. Carifio 1437 SE Legacy Cove Cir. Stuart, Fl. 34997

Judith & Andre Lavoie, Trustees 1433 SE Legacy Cove Cir. Stuart, Fl. 34997

Rizzuto Family Trust 8198 SE Woodlake Ln. Hobe Sound, Fl. 33455 Medalist Homes, LLC P.O. Box 1067 Palm City, Fl. 34991

Steven M. Martinez Nicholas Martinez, Jr. 1500 SE Cove Rd.' Stuart, Fl. 34997

State of FI. South FI Water Management 3900 Commonwealth Blvd., MS 49 Tallahassee, FI. 32399

Larry S. Sazant, Tr. 1920 E. Hallandale Bch. Blvd. Suite 510 Hallandale, Fl. 33009

Osiris Ramos 5945 SE General Lee Terr. Stuart, Fl. 34997

Ronald Simon and Sherry Simon 7238 SE Pierre Cir. Stuart, Fl. 34997

Joanna A. Marczak and Kenneth C. Nichols, Jr. 7282 Se Pierre Cir. Stuart, Fl. 34997

Maria Valle and Peter Skumanich 7370 SE Pierre Cir. Stuart, Fl. 34997

Christopher Ramsdell 7281 SE Pierre Cir. Stuart, Fl. 34997

Lisa R. & Leon Wilde 5755 SW Bald Eagle Dr. Palm City, Fl. 34990 Samaritan House for Boys, Inc. 1490 SE Cove Road Stuart, Fl. 34997-7504

TLH 82 Dot, LLC 2240 W. Woolbright Road Boynton Beach, Fl. 33426

Peter J. Barber 3417 SE Jamaica Lane Stuart, Fl. 34997

Michael J. Matakaetis 3042 SE Doubleton Dr. Stuart, Fl. 34997

Osiris Ramos and Jeannine Ramos 5640 SE Grouper Ave Stuart, Fl. 34997

Jennifer Savitcheft Revocable Trust 7282 SE Pierre Cir. Stuart, Fl. 34997

Charles E. and Terry A. Cranford 7348 SE Pierre Cir. Stuart, Fl. 34997

Tres Belle HOA 902 Clint Moore Rd Boca Raton, Fl. 33487

Christopher & Sharon Dinges 7303 SE Pierre Cir. Stuart, Fl 34997

Gregory A. & Michelle S. Shahood 1419 SE Legacy Cove Cir. Stuart, FI 34997 Tuan Pham & Huong H. Duong 1425 SE Legacy Cove Cir. Stuart, Fl. 34997

Owner of Record 1266 SE Illusion Isle Way Stuart, Fl. 34997 Raffaele & Annita Ferrante 6901 Appaloosa Trail Ft. Lauderdale, Fl. 33330



December 4, 2018

Ella Taylor Madalist Building Group, LLC 2740 SW Mapp Rd, Plam City, FL 34990

Re: Service Availability-- Treasure Coast Classical Academy, 1400 SE Cove Rd, Stuart FL 34997

#### Dear Ella:

This is to confirm that, at the present time, FPL has sufficient capacity to provide electric service to the above captioned property. This service will be furnished in accordance with applicable rates, rules and regulations.

Please provide the final site plan, site survey and electrical load data as soon as possible so the necessary engineering can begin.

Early contact with FPL is essential so that resources may be scheduled to facilitate availability of service when required.

Sincerely,

Shiran Saadon-Porter Customer Project Manager

### Water & Wastewater Service Agreement Information Form

Please complete the requested information below and return to the Martin County Utilities and Solid Waste Department. This information will be inserted into the standard "Water & Wastewater Service Agreement". The draft agreement will then be returned for your review. Note: Upon final Martin County approval of the project the owner/developer must execute the agreement and submit all applicable fees within 60 days of said approval.

Date: 12/11/2018
Project Name: Treasure Coast Classical Academy
# Of Water ERCs Proposed: 59 ERCs  # Of Previously Purchased or Assessed Water ERC's (If Known):  # Of Irrigation Water ERCs Proposed: n/a  # Of Wastewater ERCs Proposed: 59 ERCs  # Of Previously Purchased or Assessed Wastewater ERC's (If Known):
Justification of ERC calculations (i.e. flow calculations): Please see included ERC calculations
Indicate whether "DEVELOPER" as referred to in the agreement is either a(n) (please check one):
Corporation - Please Provide Federal Tax ID #
Individual(s) - Please Provide Driver's License # Partnership - Please Provide Federal Tax ID #
Name/Title, Address, and Telephone No. of Individual(s)/Corporation/Partnership executing agreement (MUST BE THE CURRENT PROPERTY OWNER):  Jeremy Lemaster, MGMR
2740 SW Mapp Road, Palm City, FL 34990
(772) 287-2010 ext. 5
email address: Planning@MedalistBuildingGroup.com
Name/Title of person(s) executing on behalf of Corporation/Partnership:
email address:

Engineer/Agent Name, Address & Telephone No.: Jordan L. Haggerty, 116 South Kentucky Ave, Lakeland, FL 33801

2740 SW Mapp Road, Palm City, FL 34990

(772) 287-2010 ext. 5

email address: jordan.haggerty@kimley-horn.com

Name, Address & Telephone No. of Individual/Organization to receive notices, updated correspondence, etc. if different from the developer:

Jeremy Lemaster

2740 SW Mapp Road, Palm City, FL 34990

(772) 287-2010 ext. 5

email address: Planning@MedalistBuildingGroup.com

If "DEVELOPER" is a Corporation or Partnership, an original or certified copy of the appropriate corporate resolution or proof of the general partner's authority is required.

Attach a copy of the Legal Description and the Warranty Deed of the property to be serviced.

If you have any questions please contact Leo Repetti, P.E at (772) 320-3065.

Project Name: Cove Rd Charter School

Engineer: Jordan Haggerty, P.E.

#### **ERC CALCULATIONS**

Per FAC 64E.6.008

Type of Establishment Unit (gpd) Quantity Measure Total

School

14 1000 10gpd/student, 4 gpd for cafeteria 14,000 GPD (ADF)

15 45 15gpd/school worker 675 GPD (ADF)

TOTAL= **14,675** GPD (ADF)

1 ERC = 250 GPD

14,675GPD/ 250 GPD=

Water & Sewer

59 ERCs

GGERTY

ORDAN Haggeett FE

SING OF ESSIONALITY -11-2011

Page 1 of 1 Warrants Volume

#### **Warrants Volume** Information Analyst JMT Intersection SE Cove Road & Project Drivewa Agency/Co KHA Jurisdiction U.S. Customary AM & PM Peak Project Driveway East-West Date Performed 12/5/2018 Units Time Period Analyzed North/South Street Major Street Project ID Preliminary SWA for Peak Hours East/West Street SE Cove Road SWA\_100% Enrollment.xhy File Name Project Description Preliminary SWA for Peak Hours

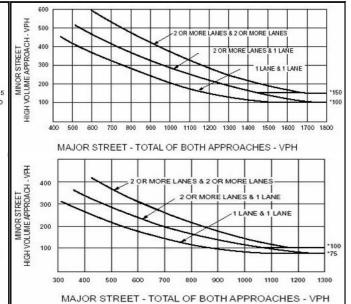
#### Warrant 1

	Condition A—Minimum Vehicular Volume								
Number of lar traffic on ea	Vehicle (tot	Vehicles per hour on major street (total of both approaches)					on higher- h (one direc		
Major Street	Minor Street	100%	80%	70%	56%	100%	80%	70%	56%
1	1	500	400	350	280	150	120	105	84
2 or more	1	600	480	420	336	150	120	105	84
2 or more	2 or more	600	480	420	336	200	160	140	112
1	2 or more	500	400	350	280	200	160	140	112

Number of lar traffic on ea	Vehicles per hour on major street (total of both approaches)			Vehick minor-stre	es per hour et approac	on higher- th (one dire	volume ction only		
Major Street	Minor Street	100%	80%	70%	56%	100%	80%	70%	56%
1	1	750	600	525	420	75	60	53	42
2 or more	1	900	720	630	504	75	60	53	42
2 or more	2 or more	900	720	630	504	100	80	70	56
1	2 or more	750	600	525	420	100	80	70	56

Warrant 3

Warrant 2 MINOR STREET HIGH VOLUME APPROACH - VPH 400 MORE LANES & 1 LANE 300 200 100 1100 600 700 800 900 1000 MAJOR STREET - TOTAL OF BOTH APPROACHES - VPH MINOR STREET HIGH VOLUME APPROACH - VPH LANES 8 2 OR MORE LANES 300 200 100 MAJOR STREET - TOTAL OF BOTH APPROACHES - VPH



Volume	Summary
--------	---------

Major Street Lanes 2+			Minor St	reet Lanes 2+	Sį	oeed	45	Populati	on 10000+			
Hours	Major Volume	Minor Volume	Total Volume	1A (70%)	1A (56%)	1B (70%)	1B (56%)	2 (70%)	3A (70%)	3B (70%)		
07-08	1990	535	2628	Yes	Yes	Yes	Yes	Yes	No	Yes		
08-09	0	0	0	No	No	No	No	No	No	No		
09-10	0	0	0	No	No	No	No	No	No	No		
10-11	0	0	0	No	No	No	No	No	No	No		
11-12	0	0	0	No	No	No	No	No	No	No		
12-13	0	0	0	No	No	No	No	No	No	No		
13-14	0	0	0	No	No	No	No	No	No	No		
14-15	0	0	0	No	No	No	No	No	No	No		
15-16	0	0	0	No	No	No	No	No	No	No		
16-17	0	0	0	No	No	No	No	No	No	No		
17-18	1579	92	1723	No	No	Yes	Yes	Yes	No	No		
18-19	0	0	0	No	No	No	No	No	No	No		
Totals	3569	627	4351	1	1	2	2	2	0	1		
opyright © 2014 University of Florida, All Rights Reserved						HCS 2010 <sup>TM</sup> Version 6.65			Generated: 12/5/2018 6:43 PM			

Warrants Summary Page 1 of 2

Warrants Summary														
Information		-												
Analyst Agency/Co Date Performed	MT HA				Intersec				SE Cove Road & Project Drivewa					
Project ID Pr		2/5/2018 reliminary SWA for Peak ours				Jurisdiction Units Time Period Analyzed				U.S. Customary AM & PM Peak				
East/West Street File Name	E Cove Road WA_100% Enrollment.xhy				North/South Stree Major Street			eet Project Driveway East-West						
Project Description Preliminary SWA for Peak Hours														
General						Roadway				letwork				
Major Street Speed (mph) 45			Pop	ulation	< 10,0	00		Two Major Routes						
Nearest Signal (ft)			☐ Coordinated Sigr				m	Wee	Weekend Count					
Crashes (per year)	<b>5</b> ( )		Adequate Trials of Alternative						5-yr Growth Factor					
Geometry and Traffic		EB				WB		NB S						
		LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT	
Number of lanes, N		1	1	1	1	1	1	0	1	1	0	1	1	
Lane usage	_	L	Т	R	L	Т	R		LT	R		LT	R	
Vehicle Volume Averages (vph)		6	112	18	33	123	2	17	2	31	7	2	2	
Peds (ped/h) / Gaps (gaps/h)			0/0			0/0			0/0			0/0		
Delay (s/veh) / (veh-hr)		0/0			0/0			0/0			0/0			
Warrant 1: Eight-Hour Vehicular Volume														
1 A. Minimum Vehicular Volumes (Both major approachesand higher minor approach)or														
1 B. Interruption of Continuous Traffic (Both major approachesand higher minor approach)or														
1 (56%) Vehicularand Interruption Volumes (Both major approachesand higher minor approach)										ach)				
Warrant 2: Four-Hour Vehicular Volume														
2 A. Four-Hour Vehicular	Volu	ımes (	Both ma	ajor app	oroach	esand	d highe	er mind	or appr	oach)				
Warrant 3: Peak Hour													<b>✓</b>	
3 A. Peak-Hour Conditions (Minor delayand minor volumeand total volume )or														
3 B. Peak- Hour Vehicula			(Both n	najor ap	proac	hesar	nd high	ner mir	nor app	roach)			<b>✓</b>	
Warrant 4: Pedestrian														
4 A. Four Hour Volumes	or	•												
4 B. One-Hour Volumes														
Warrant 5: School Crossing														
5. Student Volumesand														
5. Gaps Same Period														
Warrant 6: Coordinated Signal System														
6. Degree of Platooning (Predominant direction or both directions)														
Warrant 7: Crash Experience														
7 A. Adequate trials of al														
7 B. Reported crashes susceptible to correction by signal (12-month period)and														
Ī												- 1		

Warrants Summary Page 2 of 2

7 C. (56%) Volumes for Warrants 1A, 1Bor 4 are satisfied	
Warrant 8: Roadway Network	
8 A. Weekday Volume (Peak hour totaland projected warrants 1, 2 or 3)or	
8 B. Weekend Volume (Five hours total)	
Warrant 9: Grade Crossing	
9 A. Grade Crossing within 140 ftand	
9 B. Peak-Hour Vehicular Volumes	

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## STORM WATER MANAGEMENT SYSTEM OPERATION AND MAINTENANCE PLAN

### Treasure Coast Classical Academy Martin County, Florida

#### **Description:**

To ensure that the water management system servicing the Treasure Coast Classical Academy continues to operate as designed, the drainage facilities will be subject to periodic inspection and cleaning. The facilities to be maintained include roadways, storm drains, manholes, inlets, piped outfalls, and other miscellaneous drainage structures.

#### **Purpose:**

To maintain a proper water management and drainage system for protection of the proposed parking, roadways, and buildings.

#### Frequency:

- Mechanically sweep roadways once per year.
- Manually inspect all storm drains, manholes, inlets, piped outfalls, and other miscellaneous drainage structures yearly.
- Mow and maintain dry retention area at least 2x per month.

#### **Recommended Work Sequence:**

- 1. Clean roadways with mechanical street sweeper yearly.
- 2. Remove debris such as lumber, tree branches, leaves, trash, or other material which may cause an obstruction to drainage yearly or following significant rainfall events.
- 3. Check storm drains, manholes, inlets and other drainage structures for sediment, vegetation, or other debris, and if present, clean manually or mechanically with truck-mounter sewer cleaner yearly.
- 4. Monitor the drainage system during periods of significant rainfall to ensure that the drainage system is functioning properly. If excessive ponding of water occurs at inlets or other miscellaneous drainage structures, perform work sequence numbers 2 and 3 above. If the issue remains, begin to jet clean pipes and check for blockage or structural failure. Replace as necessary for proper functioning of the piping.

#### **Maintenance Criteria:**

The system must remain cleaned and maintained such that there are no obstructing objects in the openings for manholes, inlets, storm drains, piped outfalls, dry retention areas and other miscellaneous structures; the drainage system is to be maintained such that each structure is functioning as intended.

#### **Equipment Required:**

- Street Sweeper
- Truck-mounted sewer cleaner
- Various hand tools
- Shovels, Pry bar
- Work signs and safety equipment
- Personal safety equipment
- Mower