



AGENDA

Greater Asheville Regional Airport Authority Regular Meeting
Friday, August 9, 2019, 8:30 a.m.
Conference Room at Administrative Offices

NOTICE TO THE PUBLIC: The Airport Authority welcomes comments from the public on any agenda item. Comments are received prior to the Board's discussion of the agenda item. Comments are limited to five minutes. If you wish to comment on an agenda item, please deliver a request card (available in the meeting room) to the Clerk to the Board prior to the agenda item being called by the Chair.

- I. CALL TO ORDER
- II. WELCOME OF NEW BOARD MEMBER - THOMAS APODACA
- III. PRESENTATIONS: None
- IV. FINANCIAL REPORT ([document](#))
- V. CONSENT ITEMS:
 - A. Approval of the Greater Asheville Regional Airport Authority June 14, 2019 Regular Meeting Minutes ([document](#))
 - B. Approval of the Greater Asheville Regional Airport Authority June 14, 2019 Closed Session Minutes
- VI. OLD BUSINESS: None
- VII. NEW BUSINESS:
 - A. Approval of Agreement with GS&P, NC, an Affiliate of Gresham Smith & Partners for Terminal Building Design Services ([document](#))



- B. Ratify Approval of Right of Way Encroachment Agreement with NCDOT and Three Party Right of Way Encroachment Agreement with NCDOT and the City of Asheville Water Department ([document](#))
- C. Approval of Shuttle Agreement with LAZ Parking ([document](#))
- D. Approval of Contract for South Apron Expansion Project

VIII. DIRECTOR'S REPORT:

- A. Allegiant's Operations

IX. INFORMATION SECTION:

(Staff presentations will not be made on these items. Staff will be available to address questions from the Board.)

- A. June 2019 Traffic Report ([document](#))
- B. June 2019 Monthly Financial Report ([document](#))
- C. August 2019 Development/Project Status Report ([document](#))
- D. Airport Facilities Review for Second Quarter ([document](#))
- E. Potential Board Items for the Next Regular Meeting:

- None identified at this time

X. PUBLIC AND TENANTS' COMMENTS

XI. CALL FOR NEXT MEETING

XII. CLOSED SESSION:

Pursuant to Subsections 143-318.11 (a) (3), (4), and (6) of the General Statutes of North Carolina to Consult with Legal Counsel in Order to Preserve the Attorney-Client Privilege, to Discuss Matters Relating to the Location and/or Expansion of Industries or Other Businesses in the Area Served by the Authority, Including Agreement on a Tentative List of Economic Development Incentives that may be Offered by the Authority in Negotiations, and to Consider Personnel Matters.



XIII. AUTHORITY MEMBER REPORTS:

- A. Key Strategic Elements ([document](#))

XIV. ADJOURNMENT

This agenda of the Greater Asheville Regional Airport Authority is provided as a matter of convenience to the public. It is not the official agenda. Although every effort is made to provide complete and accurate information in this agenda, the Greater Asheville Regional Airport Authority does not warrant or guarantee its accuracy or completeness for any purpose. The agenda is subject to change before and/or during the Board meeting.

**Asheville Regional Airport
Executive Summary
June-19**

AIRPORT ACTIVITY

	Month	Variance to Prior Year	Calendar Year to Date	Variance to Prior Year
Passenger Enplanements	77,313	46.3%	360,785	45.9%
Aircraft Operations				
Commercial	2,377	29.5%	10,694	30.1%
Scheduled Flights	1,030	43.3%		
Flight Cancellations	12			
Seats	98,306	62.7%	472,125	60.2%
Load Factor	78.6%	(10.1%)	76.4%	(8.9%)
General Aviation	4,271	(11.0%)	21,457	7.5%
Military	237	(35.9%)	1,491	(6.0%)

FINANCIAL RESULTS

	Month	Variance to Budget	Fiscal Year to Date	Variance to Budget
Operating Revenues	\$ 1,388,974		\$ 14,640,955	
Operating Expenses	1,480,804		8,716,349	
Net Operating Revenues before Depreciation	<u>\$ (91,830)</u>		<u>\$ 5,924,606</u>	
Net Non-Operating Revenues	<u>\$ 516,492</u>		<u>\$ 4,243,486</u>	
Grants:				
FAA AIP Grants	\$ 4,074,380		\$ 9,019,120	
NC Dept of Transportation Grants	-		2,294,831	
Total	<u>\$ 4,074,380</u>		<u>\$ 11,313,951</u>	

CASH

Restricted	\$ 13,827,353
Designated for O&M Reserve	4,608,465
Designated for Emergency Repair	650,000
Unrestricted, Undesignated	13,144,801
Total	<u>\$ 32,230,619</u>

RECEIVABLES PAST DUE

	Total	1-30 Days	31-60 Days	Over 60 Days
Advertising Customers	26,996	7,521	7,425	12,050
Allegiant	22,257	631	-	21,626
American	8,513	583	583	7,347
Avis	8,211	737	231	7,244
Budget	1,588	263	-	1,325
Delta	207,685	81,926	-	125,759
Elite	1,074	1,074	-	-
Enterprise	6,761	922	-	5,838
TSA	4,222	355	-	3,867
Hertz	20,476	97	-	20,379
Paradies	9,854	666	-	9,188
Signature	4,489	-	-	4,489
Skywest	11,200	-	-	11,200
Spirit	3,744	341	400	3,003
Travelers	2,882	2,375	-	507
United	3,035	351	-	2,683
Vanguard	30,287	697	-	29,590
Worldwide	5,184	745	-	4,439
Miscellaneous	7,662	259	-	7,403
Total	<u>\$ 386,119</u>	<u>\$ 99,543</u>	<u>\$ 8,639</u>	<u>\$ 277,937</u>
% of Total Receivables	<u>35.25%</u>			

Note: Excludes balances paid subsequent to month-end.

REVENUE BONDS PAYABLE

	Original Amount	Current Balance
Parking Garage Revenue Bond, Series 2016A	\$ 15,750,000	\$ 15,750,000
Parking Garage Taxable Revenue Bond, Series 2016B	5,250,000	3,080,000
	<u>\$ 21,000,000</u>	<u>\$ 18,830,000</u>

CAPITAL EXPENDITURES

Annual Budget	\$ 42,604,307
Year-to-Date Spending	\$ 14,124,369

**REGULAR MEETING
GREATER ASHEVILLE REGIONAL AIRPORT AUTHORITY
June 14, 2019**

The Greater Asheville Regional Airport Authority ("Authority") met on Friday, June 14, 2019 at 8:30 a.m. in the Conference Room at the Authority's Administrative Offices, Asheville Regional Airport ("Airport"), 61 Terminal Drive, Suite 1, Asheville, NC 28732.

MEMBERS PRESENT: Matthew C. Burrell, Chair; K. Ray Bailey, Vice-Chair; Stephanie Pace Brown; George H. Erwin, Jr.; Brad Galbraith; and Carl H. Ricker, Jr.

MEMBERS ABSENT: William L. Moyer

STAFF AND LEGAL COUNSEL PRESENT: Cindy Rice, Authority Legal Counsel; Lew Bleiweis, Executive Director; Michael Reisman, Deputy Executive Director of Development and Operations; Kevan Smith, Chief of Public Safety; Tina Kinsey, Director of Marketing and Public Relations; Janet Burnette, Director of Finance and Accounting; Shane Stockman, IT Director; John Coon, Director of Operations and Maintenance; Christina Madsen, Airport Properties and Contracts Manager; Samuel Sales, Public Safety Captain; and Ellen Heywood, Clerk to the Board

ALSO PRESENT: Nick Loder, RS&H; James Moose, Avcon; Jon McCalmont, Parrish & Partners; Patrick Pettit, Haskell; Charlie Rocheleau, Haskell; Claudio Frescas, FuelRod

CALL TO ORDER: The Chair called the meeting to order at 8:30 a.m.

PRESENTATIONS: None

FINANCIAL REPORT: The Director reported on the airport activity for the month of April which included enplanements, aircraft operations, and general aviation activity. Janet Burnette reported on the financial activity for the month of April.

CONSENT ITEMS: The Chair stated that Consent Items B and D, Approval of the Greater Asheville Regional Airport Authority May 10, 2019 Closed Session Minutes and Approval of the Greater Asheville Regional Airport Authority May 14 Closed Session Minutes, would be pulled for review in Closed Session.

A. Approval of the Greater Asheville Regional Airport Authority May 10, 2019 Regular Meeting Minutes:

C. Approval of the Greater Asheville Regional Airport Authority May 14, 2019 Special Meeting Minutes:

Mr. Bailey moved to approve the May 10, 2019 Regular Meeting Minutes and the May 14, 2019 Special Meeting Minutes. Ms. Brown seconded the motion and it carried unanimously.

E. Approval of Resolution Accepting Grants:

Greater Asheville Regional Airport Authority

~ Resolution ~

A RESOLUTION CONFERRING STANDBY AUTHORITY TO ACCEPT GRANTS BY THE GREATER ASHEVILLE REGIONAL AIRPORT AUTHORITY DURING THE FISCAL YEAR 2019-2020

WHEREAS, the Greater Asheville Regional Airport Authority ("Authority") is a body corporate and politic organized and created by the North Carolina General Assembly pursuant to Session Law 2012-121, House Bill 552 known as the Greater Asheville Regional Airport Authority Act ("Act"); and

WHEREAS, the Authority operates the Asheville Regional Airport ("Airport"); and

WHEREAS, the Authority has the right under the Act to accept grants of money and/or materials or property of any kind for any existing or future airport facilities from the State of North Carolina, the United States, or any agency, department, or subdivision of either of them: and

WHEREAS, the Federal Aviation Administration ("FAA"), a division under the United States Department of Transportation, annually awards entitlement grants and discretionary grants to airports throughout the United States in support of airport capital improvement projects; and

WHEREAS, the Airport is eligible for such grants; and

WHEREAS, the window of time to accept such grants from the FAA is usually relatively short and may not fall within the schedule of Authority board meetings; and

WHEREAS, the Executive Director recommends that the Authority adopt this resolution so as not to be in a position whereby a grant is forfeited or denied.

NOW, THEREFORE, BE IT RESOLVED and Adopted by the Authority as follows:

Lew Bleiweis, A.A.E., Executive Director of the Greater Asheville Regional Airport Authority, Michael Reisman, Deputy Executive Director, the Chair of the Authority, and/or the Vice Chair of

the Authority, or any of them or their successors in office (each an "Authorized Officer") be, and they hereby are, authorized to accept, on behalf of the Authority, any and all grant offers made to the Authority by the State of North Carolina, the United States, or any agency, department, or subdivision of either of them; to execute and deliver, for and on behalf of the Authority, any and all instruments necessary to accept such grant offers; to ratify, accept, and adopt all assurances, statements, representations, warranties, covenants and agreements contained in any project application submitted by the Authority in connection with such grants; and to agree, on behalf of the Authority, to comply with any and all such assurances.

Adopted this 14th day of June, 2019

Matthew C. Burrell, Chair

Attested by:

Ellen M. Heywood, Clerk to the Board

Mr. Erwin moved to approve the Resolution Accepting Grants. Mr. Galbraith seconded the motion and it carried unanimously.

F. Approval of Business Insurance Renewal: The Director stated that there was an update to this item. At budget time, the numbers presented were lower than the actual renewals. Since the Board received the memo on this item, staff has received word from the broker that the property insurance has been reduced by \$10,000 by moving coverage from Alliant to Chubb. The Director called the Board's attention to the revised spreadsheet that was available at their seats and advised the Board that the total for the insurance will be \$287,396 vs. the \$275,600 that was budgeted. There will be a shortfall of just under \$12,000 in the budget. The Director questioned if the Board wanted to leave the budget amendment for the \$30,000 as presented in the agenda package and end up with a surplus within that line item or change the budget amendment to a lower amount.

The consensus of the Board was to leave the budget amendment as presented in the agenda package for the \$30,000.

BE IT ORDAINED by the Greater Asheville Regional Airport Authority that the following amendment be made to the annual budget ordinance for the fiscal year ending June 30, 2020:

Section 1. To amend the appropriations as follows:

EXPENDITURES:

	<u>Decrease</u>	<u>Increase</u>
Administration Department		\$30,000
Totals	<hr/> <hr/>	<hr/> <hr/> \$30,000

This will result in a net increase of \$30,000.00 in the appropriations. Revenues will be revised as follows:

REVENUES:

	<u>Decrease</u>	<u>Increase</u>
Transfer from GARAA Cash		\$30,000
Totals	<hr/> <hr/>	<hr/> <hr/> \$30,000

Section 2. Copies of this budget amendment shall be furnished to the Clerk to the Greater Asheville Regional Airport Authority, and to the Budget Officer and to the Finance Officer for their direction.

Adopted this 14^h day of June, 2019.

Matthew Burrell, Chair

Attested by:

Ellen Heywood, Clerk to the Board

Mr. Erwin moved to approve the renewal of the Authority's insurance coverages in an amount not to exceed premiums presented by staff; authorize the Executive Director to execute the necessary documents; and amend the FY2019/2020 budget by adopting the following budget ordinance amendment. Mr. Ricker seconded the motion and it carried unanimously.

G. Approval of Amendment to the FY18/19 Budget:

BE IT ORDAINED by the Greater Asheville Regional Airport Authority that the following amendment be made to the annual budget ordinance for the fiscal year ending June 30, 2019:

Section 1. To amend the appropriations as follows:

EXPENDITURES:

	<u>Decrease</u>	<u>Increase</u>
Executive Department	_____	\$25,000
Totals	=====	\$25,000

This will result in a net increase of \$25,000 in the appropriations. Revenues will be revised as follows:

REVENUES:

	<u>Decrease</u>	<u>Increase</u>
Transfer from GARAA Cash	_____	\$25,000
Totals	=====	\$25,000

Section 2. Copies of this budget amendment shall be furnished to the Clerk to the Greater Asheville Regional Airport Authority, and to the Budget Officer and to the Finance Officer for their direction.

Adopted this 14th day of June, 2019.

Matthew C. Burril, Chair

Attested by:

Ellen Heywood, Clerk to the Board

Ms. Brown moved to amend the FY18/19 budget by adopting the budget ordinance amendment as presented by staff. Mr. Bailey seconded the motion and it carried unanimously.

OLD BUSINESS: None

NEW BUSINESS:

A. Approval of a New Concession Agreement with Tricopian, Inc., dba FuelRod: The Director informed the Board that Claudio Frescas of FuelRod was in attendance and available for any questions. Christina Madsen provided the Board with a description of the FuelRod product, the locations in which they will be found in the terminal building, as well as a review of the key business terms including the percentage of gross receipts and the projected revenue staff anticipates.

There was a brief discussion on the product's cost and charge capacity, as well as the ability for customers to exchange their FuelRods for a fully-charged battery.

Mr. Bailey moved to approve the agreement with Tricopian Inc., dba FuelRod, and authorize the Executive Director to execute the necessary documents. Mr. Ricker seconded the motion and it carried unanimously.

B. Approve Non-Federal Reimbursable Agreement with Federal Aviation Administration for Air Traffic Control Tower Siting Study: Mr. Reisman informed the Board that the air traffic control tower is owned by the Authority and leased to the FAA. The tower is original to the airport and no longer meets FAA tower siting requirements which includes its location atop the terminal building and its limited height. The location will also restrict the Authority's ability to design and expand the terminal building in the future. FAA requirements specify that a formal study be performed by the FAA to determine the most appropriate location and height for a new tower. The FAA has a research and lab facility that builds models of the airport and a control tower simulator moves the tower around airport property to find the ideal location and height for the tower. Mr. Reisman advised the Board that the Agreement provided in the agenda package is a standard FAA reimbursable agreement. It's typical with a navigation aid facility for an airport to build the facility and then turn it over to the FAA for the FAA to own and operate it. As a result, a provision is included in the agreement stating anything built will become property of the FAA free and clear. Mr. Reisman advised the Board that this will not happen, this has been discussed with the FAA, and the amendment is pending. Approval of the agreement will be contingent upon that provision.

Mr. Reisman advised the Board that staff intends to seek a commitment from the FAA to fund and build their new control tower, but in the interim, is requesting approval to cover the cost of the study and will request reimbursement from the FAA. Mr. Reisman stated that the not-to-exceed cost of the Agreement is \$453,248.19 and will require the following budget amendment:

BE IT ORDAINED by the Greater Asheville Regional Airport Authority that the following amendment be made to the annual budget ordinance for the fiscal year ending June 30, 2019:

Section 1. To amend the appropriations as follows:

EXPENDITURES:

	<u>Decrease</u>	<u>Increase</u>
Capital Improvements		\$453,248.19
Totals		\$453,248.19

This will result in a net increase of \$453,248.19 in the appropriations. Revenues will be revised as follows:

REVENUES:

	<u>Decrease</u>	<u>Increase</u>
Transfer from GARAA Cash		\$453,248.19
Totals		\$453,248.19

Section 2. Copies of this budget amendment shall be furnished to the Clerk to the Greater Asheville Regional Airport Authority, and to the Budget Officer and to the Finance Officer for their direction.

Adopted this 14th day of June, 2019.

Matthew Burrell, Chair

Attested by:

Ellen Heywood, Clerk to the Board

The Board questioned the likelihood of the FAA funding construction of the tower. The Director responded that staff was not yet sure what would happen, but it was staff's intent to have the FAA build and pay for construction of the control tower. The FAA has stated that construction of a new tower would be PFC eligible, however, funds from the PFC collections are needed for the terminal building. The FAA has allowed airports to build the towers and then lease them back to the FAA for amortization of the investment. Staff will have these discussions with the FAA.

Mr. Erwin moved to approve the Non-Federal Reimbursable Agreement with the FAA contingent upon the provision outlined by staff; authorize the Executive Director to execute the necessary documents; and amend the FY2018/2019 budget by adopting the budget ordinance amendment as presented by staff. Mr. Galbraith seconded the motion and it carried unanimously.

DIRECTOR'S REPORT:

A. NCDOT Grant: The Director reported that a grant in the amount of \$500,000 was received from the NCDOT STIP for the terminal apron expansion project. This is in addition to the regular state grant the airport receives. The Director further stated that the FAA had \$1 billion in discretionary funding for which small airports had to apply. Staff applied for \$7.5 million of those funds in the second round of funding. Unfortunately, the airport did not receive any funding, however, staff will continue to work on requesting funds from this grant for the terminal apron project.

B. Snow Removal Equipment: The airport recently received the new snow broom and blower that was ordered a year ago. In the current fiscal year budget, staff went out for bid for three dump trucks: two with plows and one with a spreader. The award went to Quality Truck Care Center in the amount of \$858,767.00. The bid is in the process of being reviewed by the FAA and staff will move forward with the contract after FAA approval. There is likely a 10 to 12-month delivery time on this equipment.

C. Parking Info Update: Michael Reisman briefed the Board on the status of the expansion of parking areas for passengers. Staff will bring a contract for construction of the new parking areas to the Board for approval at a future date.

D. Airfield Construction Update: Michael Reisman reported that the paving contractor was not yet onsite. Staff recently received asphalt mix designs and the Authority's engineers returned it within a couple of days for some corrections as all of the supporting documentation was not included. A pre-paving meeting was held earlier in the week and the contractor is talking about working nights and weekends to make up time.

E. Jumpstart Update: A high-level summary of the recent ACI Jumpstart conference was provided by Tina Kinsey. Mrs. Kinsey stated that new information was gathered, valuable data was shared with the airlines, and some next steps have been identified.

F. Director of Administration: The Director reported that an offer has been made to a candidate for the Director of Administration position. The individual will be giving notice to their current employer and plans to begin employment at the airport in mid-July.

INFORMATION SECTION: No comments

PUBLIC AND TENANTS COMMENTS: None

CALL FOR NEXT MEETING: The Director stated that he did not believe there was a need for a meeting on July 12, 2019 but requested that the Board leave their calendars open.

CLOSED SESSION: At 9:21 a.m. Mr. Bailey moved to go into Closed Session Pursuant to Subsection 143-318.11 (a)(3) and (4) of the General Statutes of North Carolina to Consult with Legal Counsel in Order to Preserve the Attorney-Client Privilege; and to Discuss Matters Relating to the Location and/or Expansion of Industries or Other Businesses in the Area Served by the Greater Asheville Regional Airport Authority, Including Agreement on a Tentative List of Economic Development Incentives that may be Offered by the Greater Asheville Regional Airport Authority in Negotiations. Mr. Erwin seconded the motion and it carried unanimously.

The Chair indicated they would break for five minutes at which time the Board would resume in closed session.

Open Session resumed at 10:50 a.m.

GREATER ASHEVILLE REGIONAL AIRPORT AUTHORITY JUNE 14, 2019

CLOSED SESSION MINUTES: Mr. Bailey moved to seal the minutes for the Closed Session just completed and to withhold such Closed Session minutes from public inspection so long as public inspection would frustrate the purpose or purposes thereof. Mr. Erwin seconded the motion and it carried unanimously.

GREATER ASHEVILLE REGIONAL AIRPORT AUTHORITY MAY 10, 2019 CLOSED

SESSION MINUTES: Mr. Bailey moved to approve the minutes for the May 10, 2019 Closed Session and to seal and withhold the minutes for the May 10, 2019 Closed Session from public inspection so long as public inspection would frustrate the purpose or purposes thereof. Ms. Brown seconded the motion and it carried unanimously.

GREATER ASHEVILLE REGIONAL AIRPORT AUTHORITY MAY 14, 2019 CLOSED

SESSION MINUTES: Mr. Bailey moved to approve the minutes for the May 14, 2019 Closed Session and to seal and withhold the minutes for the May 14, 2019 Closed Session from public inspection so long as public inspection would frustrate the purpose or purposes thereof. Mr. Ricker seconded the motion and it carried unanimously.

AUTHORITY MEMBER REPORTS: The Chair gave a brief summary of the ACI/AAAE Commissioners Conference he attended in May which included drone regulation, security, and funding.

ADJOURNMENT: Mr. Bailey moved to adjourn the meeting at 11:00 a.m. Mr. Galbraith seconded the motion and it carried unanimously.

Respectfully submitted,

Ellen Heywood
Clerk to the Board

Approved:

Matthew C. Burrell
Chair



MEMORANDUM

TO: Members of the Airport Authority

FROM: Michael A. Reisman, A.A.E.
Deputy Executive Director

DATE: August 9, 2019

ITEM DESCRIPTION – New Business Item A

Approve Task Order No. 2 with GS&P N.C. an Affiliate of Gresham Smith and Partners for Terminal Building Phase 2 Modernization Design Services.

BACKGROUND

The Authority entered into an Agreement for Professional Consulting Services with GS&P N.C. an Affiliate of Gresham Smith and Partners (Gresham Smith) on August 14, 2018. The scope of services included design and engineering services associated with the Terminal Building expansion and renovation project. The scope of Task Order No. 2 is the actual design services for the overall Terminal Building project.

The cost proposal for Task Order No. 2 submitted by Gresham Smith for the overall project design, excluding Resident Project Representative (RPR) services, is \$12,608,794.00, which represents a design cost of 8.19 percent of estimated construction costs, exclusive of RPR services.

In conjunction with FAA requirements, an Independent Fee Estimate (IFE) was conducted by Mead and Hunt to validate the cost proposal submitted by Gresham Smith. The IFE estimated the cost at \$11,741,040.00, which is 7.13% lower than Gresham Smith's proposal. In accordance with FAA practice, if the fee proposal and the IFE are within 10 percent of each other, the FAA considers the fee proposal reasonable.

In order to ensure flexibility for the Authority in committing funds to this project, the overall design effort is presented in a manner so it can be split into two phases. The first phase would include Design Development and Schematic Design, which would permit the project to advance to the point where a Construction Manager at Risk (CMR) could be selected for the program, and also allow a break point where evaluation and refinement

New Business – Item A



of the programs scope of work could reasonably take place, with any adjustments to the scope and the design fees at that time. The second phase, plus or minus any refinements, would then see the design effort through to the end, with construction starting at its conclusion. Once the CMR selection is undertaken, it will be possible to complete the scope of RPR services and if necessary, add those to the agreement under separate action by the Board.

ISSUES

None

ALTERNATIVES

The Board could elect to award the entire design project at this time, although Notice to Proceed will only be issued for the Design Development and Schematic Design phase (Phase I) only. Notice to Proceed for the remaining effort (Phase II) would be issued at a later date once Phase I is complete and the program has been further refined and presented to the Board for consensus.

Alternatively, the Board could elect to award services for Phase I only at this time, which would require additional action by the Board at a later date before Phase II services could be undertaken.

FISCAL IMPACT

The fee for Phase I of this project is \$3,969,904.50, which includes half of the reimbursable expenses included in the overall fee proposal. The fee for Phase II of this project is \$8,638,889.50, which includes half of the reimbursable expenses included in the overall fee proposal. The total cost of both phases is \$12,608,794.00.

The approved costs are included in the current fiscal year's capital budget for the terminal project, for which \$25M has been included.

RECOMMENDED ACTION

It is respectfully requested that the Airport Authority Board resolve to (1) approve Task Order No. 2 with GS&P N.C. an Affiliate of Gresham Smith and Partners in the amount not to exceed \$12,608,794.00, pending review and approval by the FAA; and (2) to authorize the Executive Director to sign the necessary documents.



July 8, 2019

Mr. Michael Reisman, AAE
Deputy Executive Director, Development & Operations
Greater Asheville Regional Airport Authority
61 Terminal Drive
Fletcher, North Carolina 28732

Subject: FEE PROPOSAL – FINAL
Task Order No. 2: AVL Phase 2 Terminal Modernization
Asheville Regional Airport
Gresham Smith Project No. 43483.02

Dear Mr. Reisman:

Please find attached our revised fee proposal for the Phase 2 Terminal Modernization at Asheville Regional Airport.

Gresham Smith and its consultants will provide the following professional services:

- Overall Project Management
- Architecture
- Interior Design
- Wayfinding
- Structural
- Mechanical
- Plumbing
- Electrical
- Fire Protection
- Airside Civil
- Landside Civil
- SUE
- Baggage Handling System
- Special Systems
- Aircraft Planning
- Geotechnical
- Civil Survey
- Passenger Simulations
- Envelope review
- Cost Estimating
- Laser Scanning
- Blast Mitigation

This fee proposal has been developed in coordination with the Scope of Work document dated Mach 29, 2019 (*attachment 1*) for services from conceptual design through bidding/permitting phase.

Scope of Work

The scope of work and project understanding for the Phase 2 Terminal Modernization has been developed as part of the Scope of Work document dated Mach 29, 2019 (*attachment 1*) and is to be referenced as part of that document.

Genuine Ingenuity

201 S. College Street
Suite 1950
Charlotte, NC 28244
704.944.7970
GreshamSmith.com



Mr. Michael Reisman

July 8, 2019

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Compensation

We propose to be compensated for services described herein by a lump sum fee as indicated below. We anticipate reimbursable expenses for travel, printing, shipping and related expenses as a result of this project's scope. If additional reimbursable expenses become necessary, we will notify you in advance and request that an addendum be issued to cover the additional expenses. Detailed back-up for professional services, travel and reimbursable expenses are attached to this document (*attachment 2*).

Professional Services \$12,298,127

Reimbursable (travel, shipping, printing, other) \$310,667

TOTAL LUMP SUM FEE \$12,608,794

Due to the complexities and unknowns at this point in time during the project, we are recommending the following allowances to only be used after approval from the owner and accepted proposal from the design team.

Owners Contingency \$300,000

Lighting Design Allowance \$150,000

This would allow for funding to be in place to cover items that were unknown at the start of the project examples would include but not limited too; potential additional scope, additional studies or simulations needed, additional survey limits or other general project unknowns at this time. The allowance for a lighting designer is being held for the possibility of a highly specialized lighting design in a particular public space beyond the means of what typical electrical engineers will handle. It would be anticipated we would fully know if this level of lighting design would be needed by the end of schematic design.

We appreciate the opportunity to provide our proposal and look forward to completing this project. If you have any questions or wish to discuss this further, please do not hesitate to contact me.

Sincerely,

David L. King, AIA, NCARB
Project Executive

Attachment 1 – Scope of Work (*dated March 29th, 2019*)

Attachment 2 – Fee Breakdown Cover Sheet

Attachment 3 – Spreadsheet Hours Breakdown

Attachment 4 – Spreadsheet Travel Plan

**Gresham
Smith**



Consultant Scope of Services

Greater Asheville Regional Airport Authority

Task Order number 2 for Profession Consulting Service, as referenced in the Professional Consulting Agreement between the Greater Asheville Regional Airport Authority and GS-NC P.C., an Affiliate of Gresham Smith, dated June 24, 2019.

Project: Phase 2 Terminal Modernization

Scope of Services: As indicated on the Scope of Work document dated March 29, 2019 and attached to this document.

Consultant Team: Gresham Smith and it's consultants will provide Overall Project Management, architecture, interior design, wayfinding, structural, mechanical, plumbing, electrical, fire protection, airside civil, landside civil, SUE, special systems, aircraft planning, geotechnical, civil survey, passenger simulations, envelope review, cost estimating, laser scanning and blast mitigation for the Phase 2 Terminal Modernization.

Design Schedule: As indicated on the Scope of Work document dated March 29, 2019 and attached to this document.

Project Budget: \$150,000,000 to \$200,000,000

Fees: Lump Sum \$12,298,127 for Professional Services and \$310,667 for Reimbursable Expenses (related to travel, shipping, and additional reimbursable expenses) for a total lump sum amount of \$12,608,794 related to the project scope.

Authority:

Greater Asheville Regional Airport Authority

By: _____

Executive Director

Date: _____

Consultant:

Gresham Smith

By: *[Signature]*

Title: **REGIONAL VICE PRESIDENT**

Date: **7.8.19**

This instrument has been pre-audited in the manner required by the Local Government Budget and Fiscal Control Act.

Finance Officer

Date



March 29, 2019

Mr. Michael Reisman, A.A.E.
Greater Asheville Regional Airport Authority
61 Terminal Drive; Suite 1
Fletcher, NC 28732

Subject:

Scope of work for Architectural and Engineering Design Services (Conceptual Design through Bidding) for Asheville Regional Airport Phase 2 Terminal Modernization Project

Dear Mr. Reisman:

We are pleased to submit to you this document to be used for an Initial Fee Estimate. We have listed our project understanding, project team, proposed design schedule, scope of services and excluded items. Please see below for additional detail on the corresponding items and attachments that have been presented to date supporting this project.

PROJECT UNDERSTANDING

The Asheville Regional Airport Terminal Building was designed in the late 1950's and opened for business in 1961 with 25,000 SF. Over the years, the structure had multiple additions constructed and several interior remodels. Today, the structure is approximately 115,000 SF. As the structure was expanded, much of its core infrastructure remained unchanged. Over the years, the building systems have experienced ongoing problems and are in need of replacement in order to accommodate the existing use and future growth of the Airport. This project proposal is based upon the Greater Asheville Regional Airport Authority (GARAA) Asheville Regional Airport Terminal Building Assessment Study (dated July 3, 2018) and CHA/Leo A Daly Board Presentation from October 8, 2018; specifically, the 2038 program associated with Option 1.

Gresham Smith (GS) and its consultants will provide design services to expand and modernize the existing single story, seven gate terminal building to a two story, twelve gate terminal building. This will involve an all new second level security screening checkpoint to allow for future growth and adaptability to evolving security needs. A right sized ticket lobby providing space to accommodate new carriers while recognizing the emerging technology and check-in procedures. An enhanced curbside and entrance façade that becomes a part of the integrated overall aesthetic to the site. New baggage claim hall sized to meet the intended fleet mix and provide the necessary airline and airport support space. The consolidation of a checked baggage inspection system with supporting baggage makeup areas for outbound baggage. Central Energy Plant located on site to support the growing infrastructure needs while providing expandability and redundancy. A new second level boarding concourse with expanded holdrooms supporting the projected fleet mix and new amenities such as: expanded concessions, common use club, expanded restrooms and new passenger boarding bridges. A loading dock is proposed to support the dry and cold goods for

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concessionaires along with other sort of airport delivery supplemented by additional storage spaces.

With the existing facility, there are several challenges that must be overcome: First, the design of the project will assume that the FAA control tower, currently a part of the existing building, will be relocated to an alternate location prior to the completion of the work. Second, the existing structure was not designed for a second level without major reinforcements to the columns and foundations. As previously mentioned, the systems infrastructure does not have enough capacity to facilitate the proposed growth. For these reasons, most of the existing building will need to be demolished and re-built in place. This will require detailed phasing to be worked out in conjunction with the contractor to maintain airport operations and a safe passenger experience in the facility while under construction.

The services provided by the Project Team shall result in contract documents utilized for procurement method discussed later in this document. The plans, specifications, opinions of probable construction cost and proposed project schedule shall be reviewed at each submittal and approved by the Airport before proceeding with following phases of the project work.

The Airport shall help coordinate airport stakeholder involvement in meetings and shall provide project communication to the stakeholders throughout the design process. At the direction of the Airport, the design team shall provide copies of the design deliverables to stakeholders for their information and comment.

PROJECT DELIVERY METHOD

The project delivery method is unknown at this point in time. For the purposes of developing this scope of work and professional services fees we are assuming a Construction Manager At-Risk project delivery due to the various complexities of the existing building and multiple phased construction. Construction Manager selection is anticipated to be towards the end of schematic design, so they will become integrated into the design process. The design team anticipates working closely with the construction manager in the development of the ultimate project phasing. During that time, early release packages will be evaluated but not to be assumed at this time. For these reasons, this proposal does not anticipate developing overall public low-bid documents.

PROJECT TEAM

Gresham Smith shall provide overall project management, architectural, structural, interior design and wayfinding services. AME consulting engineers shall provide Mechanical, Plumbing and electrical design services. Vaughn & Melton (V&M) shall provide landside civil efforts, underground utility and land/utility surveying. SM&E shall provide geotechnical services for the entire site. Arora engineers shall provide special systems, fire protection and code consulting design services. JSM and Associates shall provide baggage handling design services. Delta Airport Consultants (DAC) shall provide the aircraft simulation modeling, passenger boarding bridge modeling and airside civil (from pavement up) design services. Construction Moisture Consulting (CMC) shall provide review of thermal envelope at various stages throughout design. Connico incorporated



shall provide cost estimating services at various points throughout design. TransSolutions (TS) shall provide passenger simulation modeling services as required. Thomton Tomasetti (TT) shall provide blast engineering analysis. Digital Building Services (DBS) shall provide laser scanning of the existing facility and convert to a Revit model.

PROPOSED DESIGN SCHEDULE

Please note, there is to be an assumed gap in the schedule between major deliverables for Stakeholder/Regulatory Authorities/Building Department/other parties review and approval time. The design team will not proceed from one phase to the next without Authority Approval

Notice to Proceed

- Estimated Late May 2019

Conceptual design (*duration 12 weeks*)

- Evaluate major project elements
- Define what is in or out of scope
- Develop architectural design
- Validate cost/budget

Schematic Design (*duration 12 weeks*)

- Refine concept for detailed pricing
- Refined phasing and schedule
- Detailed program development

Design Development (*duration 16 weeks*)

- Define building systems
- Define architectural components

Construction Documents (*duration 24 weeks*)

- Detailed construction documents

Bidding and Permitting (*duration 8 weeks*)

- RFI review
- Answering questions related to Construction Manager FGMP delivery
- Permit review comments

SCOPE OF SERVICES

The scope of professional services includes the following:

1. Project Management: Project management will take place throughout the course of this project and will include communication of project progress with the Owner, management of the design team's activities, quality control and checking of documents, organizing project information and documenting key issues. Other project management responsibilities include project invoicing and accounting and management of the project budget. Schedule updates shall be provided at the end of each phase. Assisting in the development of a Construction Manager At-Risk RFP with the Airport.
2. Sub-consultants
 - a. MEP (AME):
 - i. Evaluate and prepare MEP system options, locations and growth ability for the Terminal/Concourse Expansion and



analyze how that infrastructure could interface with existing airport systems, as well as integrate with AVL's overall expansion and master plan.

- b. FP/Special Systems (Arora):
 - i. As part of the passenger journey segment evaluations, Arora will identify the special systems needs associated with each. It is understood that there will be significant overlap between the journey segments for base building systems such as public address, Wi-Fi, EVIDS. Arora will identify specific journey segment areas with additional special systems consideration such as SSCP, passenger processing curbside signage, digital signage and potential additional technologies to facilitate wayfinding across the journey segments coordinated with the wayfinding masterplan. Perform necessary calculations to determine fire protection sizing.
- c. Landside civil, underground utility + survey (V&M):
 - i. Based on feedback on the Program Document, civil will further develop the preliminary design concepts for site civil work, meeting with the owner to review the findings and updating concepts based on feedback from the Owner and design team. Project coordination will be to develop curbside operations, and both vehicular and pedestrian circulation. Civil will begin producing rough site layouts for utilities and drainage. Existing utility corridors, site grading, traffic circulation, ingress/egress options, site layout options, roadways layouts and their effects on site design will be analyzed.
- d. Blast Engineering (TT):
 - i. Establish the explosive threats to be considered in the Project design, and identify the structural and non-structural features of the Project that will be affected by these threats
- e. Structural (GS):
 - i. As part of the evolving design of the programming efforts of the Design Team and Owner, structural will propose new or modified volumes of space, provide input as to the structural options to obtain the volume and appearance the design team is requesting. As a part of this task, and as early in the conceptual efforts as possible, it is important to define the level of risk and extent of Blast Protection that the new construction shall be designed to resist. The level of blast load and extent of acceptable damage will have a large influence as to the structural options available for the North Terminal's Road side exterior and any roof system over a portion of the adjacent roadway
- f. Code Consulting (Arora):
 - i. The review will focus on code requirements related to fire protection and life safety from the NCBC that can have a significant impact on the overall project, including construction types and allowable heights and areas, building separations, occupancy classifications and separations, general egress and exiting, and fire protection systems requirements. A code



- review of the conceptual design drawings/report for compliance with the applicable fire protection and life safety provisions of the NCBC. The code review will include applicable provisions related to fire protection and life safety from the NCBC including building separations, occupancy classifications and separations, egress and exiting, and fire protection systems requirements.
- g. Cost Estimating (CONNICO):
 - i. Provide professional estimating services to assist in defining the overall budget for the Terminal Modernization project
 - h. Baggage Handling System (JSM):
 - i. Perform a BHS System Design based on the latest flight schedule to define inbound and outbound baggage system, CBIS, baggage claim, ticketing processing requirements as well as to determine the overall design year system requirements. This will be based on the design criteria by extrapolating the gate mix and flight schedule (supplied by the GS Team)
 - i. Wayfinding (GS)
 - i. Provide a comprehensive and uniform wayfinding design from the design direction of the airport and incorporate it into the new facility. This will cover all levels of the new or renovated building and exterior roadway and site signage adjacent to the terminal.
 - j. Passenger Modeling (TS):
 - i. The immediate objectives of the analyses will be to identify requirements for check-in positions and queuing area; security screening checkpoint (SSCP) lanes and queuing area; baggage claim frontage, devices, and waiting area; vertical circulation and passenger flows through the check-in and baggage claim lobbies; and the frontage, allocation, and lane allocations for the terminal curbside roadways. Requirements will be developed for three demand levels to be defined by the airport.
 - k. Aircraft + Passenger Boarding Bridge simulations (DAC):
 - i. Perform movement studies for aircraft entering and exiting the taxiway to the gate. This will include analysis to the proposed parking positions at each gate of the expanded concourse. Simulations will also be run to determine the type of PBB at each gate and how they will function. Airside civil pavement scope is to be included as part of this project as needed to facilitate the building expansion
 - l. Laser Scanning (DBS):
 - i. Perform laser scanning of the existing facility and convert to Revit model.
3. Meetings: The project team shall meet with the Airport and other stakeholders at AVL as follows:
- a. Initial project kick-off meeting
 - b. Monthly page turn reviews



- c. Individual stakeholder workshops estimated to be bi-weekly during design phases
- d. AVL stakeholder presentations at each major milestone
4. Deliverables (*not limited to the following*):
 - a. Conceptual design = Overall colored architectural plans indicating large programmatic areas, renderings of the proposed building, developing existing conditions model and test fits of equipment in MEP spaces
 - b. Schematic design = More refined floor plans indicating individual break down of spaces, generic exterior elevations/sections, life safety review, large MEP systems to be defined and located, civil survey, geotechnical and a site plan
 - c. Design Development = Material selections, phasing, refined MEP systems and refined site design
 - d. Construction Documents = Completion of detailed documents outlining the proposed building and associated infrastructure systems, detailed phasing analysis, CMR support for cost estimating and specifications

RESPONSIBILITIES OF GREATER ASHEVILLE REGIONAL AIRPORT AUTHORITY (GARAA)

This scope of services and compensation are based on AVL performing or providing the following:

- Provide access to the site
- Provide any necessary as-built documents, data and information related to the project and the existing facility
- Provide a representative with authority to transmit instructions, receive information and provide directives and AVL decisions
- Provide timely review, feedback and approvals to maintain project schedule
- Support and help coordination the project team with the airline, TSA and other stakeholders as required
- Endorse SIDA identification badges or provide escorting within sterile areas of the airport
- Protect consultant supplied digital information, if any, from contamination, misuse or alteration

WORK NOT INCLUDED IN THE SCOPE OF SERVICES

The following items are excluded from this agreement and shall be provided by GARAA or provided by Gresham Smith as an additional service only as authorized by GARAA.

- Construction administration services due to project delivery not defined at this point
- Any RPR services required by construction administration
- Any threat analysis beyond a defined blast analysis as performed by Thornton Tomasetti
- Special inspector or special inspections
- LEED, green globes or any other environmental design services or certifications
- Fire suppression testing
- Flow testing



- Value engineering
- Life cycle cost analysis
- BHS system optimization beyond PGDS V6.0 (TSA planning guideline and design standards for checked baggage inspection systems) including return on investment (ROI) analysis
- Detailed design of airline spaces. These shall be provided at a shell level for airline input
- Concession design beyond a white box (shell space)
- Concessionaire analysis, return on investment (ROI) or consulting
- Other items no listed in detail above this section
- Wayfinding Master Plan
- Building/system commissioning
- Garage wayfinding
- TSA impact due to PGDS deliverables is unknown at this time and effort is not accounted for
- Environmental regulatory approvals

Sincerely,

David L. King, AIA, NCARB
Regional Vice President

Copy: Brad Sucher – GS
Wilson Rayfield – GS
Kevin Hopkins – GS

ATTACHMENTS

- Attachment 1 – AVL presentation *dated 02/20/2019*
- Attachment 2 – Existing Floor Plans
- Attachment 3 – Preferred Design Concept Floor Plans
- Attachment 4 – Phasing Floor Plans
- Attachment 5 – Terminal Façade Concepts
- Attachment 6 – Design Fee Worksheet
- Attachment 7 – Fee Analysis Task Breakdown

Fee Breakdown

Overall Fee		Labor Total	Conceptual	SD	DD	CD	BID	TRAVEL	REIMBURSABLE
Gresham Smith	Project Management	\$ 5,283,500	\$ 768,800	\$ 963,400	\$ 1,244,400	\$ 1,767,500	\$ 539,400	\$ 96,680	\$ 20,000
Gresham Smith	Architecture - Envelope	\$ -	(included above)	(included above)	(included above)	(included above)	(included above)	(included above)	
Gresham Smith	Architecture - Interior	\$ -	(included above)	(included above)	(included above)	(included above)	(included above)	(included above)	
Gresham Smith	Interior Design	\$ 699,900	\$ 14,800	\$ 154,100	\$ 210,600	\$ 307,000	\$ 13,400	\$ 10,215	
Gresham Smith	Structural	\$ 1,083,750	\$ 48,350	\$ 222,750	\$ 314,030	\$ 467,050	\$ 31,570	\$ 25,740	
Gresham Smith	Way Finding	\$ 248,000	\$ 38,500	\$ 58,500	\$ 65,000	\$ 74,000	\$ 12,000	\$ 9,080	
AME	Mechanical, Plumbing + Electrical	\$ 2,380,500	\$ 104,020	\$ 182,035	\$ 930,200	\$ 1,138,240	\$ 26,005	\$ 69,120	
Delta Airport Consultants	Aircraft/PBB Planning, Airside Civil	\$ 553,000	\$ 112,180	\$ 111,492	\$ 137,204	\$ 180,556	\$ 11,568	\$ 4,500	
Arora Engineers	Fire Protection	\$ 259,478	\$ 48,198	\$ 47,019	\$ 58,971	\$ 96,440	\$ 8,850	(included below)	
Arora Engineers	Special Systems	\$ 480,210	\$ 69,456	\$ 93,900	\$ 122,540	\$ 182,946	\$ 11,368	\$ 21,116	
Vaughn & Melton	Landside civil + SUE	\$ 253,495	\$ 33,860	\$ 53,060	\$ 49,765	\$ 75,450	\$ 41,360		\$ 5,000
Connico	Cost Estimating	\$ 70,000	\$ 13,600	\$ 25,100	\$ 16,500	\$ 14,800	-	\$ -	\$ 5,500
JSM & Associates	Baggage Handling	\$ 367,840	\$ 90,283	\$ 109,148	\$ 107,415	\$ 53,845	\$ 7,150	\$ 17,110	
S&ME	Geotech	\$ 64,849	\$ 64,849	-	-	-	-	\$ -	
Vaughn & Melton	Survey	\$ 74,050	\$ 74,050	-	-	-	-	\$ -	
TransSolutions	Passenger Simulation	\$ 144,935	\$ 129,655	\$ 15,280	-	-	-	\$ -	\$ 14,742
Arora Engineers	Code Consulting	\$ 61,040	\$ 6,976	\$ 13,080	\$ 13,080	\$ 26,160	\$ 1,744	\$ -	
DBS	Laser Scanning	\$ 99,660	\$ 99,660	-	-	-	-	\$ -	
CMC	Envelope Review	\$ 49,920	-	-	\$ 12,480	\$ 37,440	-	\$ 5,664	\$ 1,200
Thornton Tomasetti	Blast Mitigation	\$ 124,000	\$ 17,922	\$ 30,549	\$ 37,771	\$ 34,049	\$ 3,710	\$ 5,000	
			\$ 3,814,571				\$ 8,483,556	\$ 264,225	\$ 46,442

LABOR	\$ 12,298,127
TRAVEL	\$ 264,225
REIMBURSABLE	\$ 46,442
TOTAL LUMP SUM FEE	\$ 12,608,794

Exclusions:
 Landscaping
 Material Testing
 Environmental (hazardous material)
 Other items listed in Scope of Work document

Hours Breakdown - (GS Architecture + Project Mangement)														
AVL Phase 2 Terminal Modernization														
GS Project Number														
4/9/2019														
Conceptual - Bidding	VP	PIC	PM	Project Designer	Project Architect	Senior Architect	Architect (X2)	Project Coordinator (X3)	Senior Interior Designer	Interior Designer	Interior Design Intern (X2)	PM Assistant	Admin Assistant	Total
Task Description														
1 Task 1- Conceptual (12 weeks)	160	160	480	400	480	20	900	900	40	100	400	200	40	
2 Document Control and Project Set-up	30	30	40	20	20		80	80			30			330
3 Field Investigation			20	30	40		80	80			40			290
4 (Departures) Curbside Operations & Passenger Access	10	10	10	30	40		80	80		10	30			300
5 (Departures) Ticketing & Bag Check	10	10	10	30	40		80	80		10	30			300
6 (Departures) Passenger Screening	10	10	10	30	40		80	80		10	30			300
7 (Departures) Holdrooms & Concessions	10	10	10	30	40		80	80		10	30			300
8 (Arrivals) Passenger Exiting	10	10	10	30	40		80	80		10	30			300
9 (Arrivals) Baggage Claim	10	10	10	30	40		80	80		10	30			300
10 (Arrivals) Curbside Operations & Passenger Access	10	10	10	30	40		80	80		10	30			300
11 (Arrivals) Facilities & Circulation	10	10	10	30	40		80	80		10	30			300
12 Overall Programming Tabulations	10	10	10	30	40		40	40	40	10	30			260
13 Review of Record Documents			20	40	20		40	40		10	30			200
14 Compile As-built Documentation & site Analysis			10	40	20		20	20			30			140
15 Project Management & Consultant Coordination	40	40	300		20	20						200	40	660
16 Task 2- Schematic Design (12 weeks)	160	160	480	200	480	160	960	1440	360	240	780	200	40	
17 Schematic Documents Preparation- Plans, Elevations, Sections			10	30	40	10	240	400	60	40	240			1070
18 Schematic Design Renderings			10	40	80	10	160	480	60	80	300			1220
19 Phasing Plans	20	20	20	40	80	10	160	160	60					570
20 Design Coordination Meetings	20	20	20	40	80	10	160	160	60	40	80			690
21 Contractor Coordination & Budget Estimate Reviews	20	20	20	40	80	10	160	160	60	40	80			690
22 QA/QC Reviews	20	20	40	10	80	70	80	80	60	40	80			580
23 Project Management, Consultant Coordination & Correspondence	80	80	360	40	40	40						200	40	840
24 Task 3- Design Development (16 weeks)	140	140	640	460	640	300	1,280	1,920	240	380	672	300	120	
25 Architectural Plans, Elevations, Sections & Details			20	80	220	10	200	300		20	40			890
26 Interior Design Plans, Elevations, Sections & Details			20	80	40	10	200	80	140	200	432			1202
27 Signage & Wayfinding Documents			20	40	40	10	200	300	10	40	40			700
28 Life Safety Analysis & Plans			20	20	40	10	200	300						590
29 60% Technical Specifications			20	40	40	10	80	100	10	10	40			310
30 Design Development Phasing Plans	10	10	20	80	40	10	80	300	10	10	40			610
31 Design Coordination Meetings	10	10	80	80	80	40	200	300	20	80	40			940
32 Contractor Coordination & Budget Estimate Reviews	40	40	40	80	60	40	80	160	40					580
33 QA/QC Reviews	40	40	40	40	40	120	40	80	10	20	40			470
34 Project Management, Consultant Coordination & Correspondence	40	40	360	40	40	40						300	120	940
35 Task 4- Construction Documents (24 weeks)	140	140	960	460	960	430	1920	2880	360	480	1220	400	160	
36 Architectural Plans, Elevations, Sections & Details			20	80	640	40	600	1100		40	80			2600
37 Interior Design Plans, Elevations, Sections & Details			20	80	20	20	60	100	200	220	680			1400
38 Signage & Wayfinding Documents			20	80	20	20	180	240		40	80			680
39 Life Safety Analysis & Plans			20	20	40	40	180	240						540
40 Technical Specifications			20	60	40	40	180	240	40	40	60			720
41 Final Phasing Plans	20	20	40	40	40	40	180	240						620
42 Design Coordination Meetings	20	20	40	60	40	40	180	240	40	60	200			940
43 Contractor Coordination & Budget Estimate Reviews	20	20	40	40	40	70	180	240	40	40	80			810
44 QA/QC Reviews			40	40	40	40	180	240	40	40	40			660
45 Project Management, Consultant Coordination & Correspondence	80	80	700	40	40	80						400	160	1540
46 Task 5- Bidding/Permitting (8 weeks)	80	80	320	20	320	160	640	960	80	120	120	140	40	
47 Contractor Coordination	10	10	20	10	40	20	120	200	20	20	20			490
48 Permit Review Package Submittal			20	40	40	20	100	140	20	20	20			380
49 Permit Review Meetings			20	40	40	20	100	140	20	20	20			380
50 Incorporate AHJ Comments			20	40	40	20	80	120		10	10			300
51 Contractor Coordination- GMP Packages	10	10	20	40	40	20	80	120		20	20			340
52 Answer Subcontractor RFI's			20	5	40	20	80	120		10	10			305
53 GMP Reviews & Coordination	20	20	40	5	40	20	80	120	20	20	20			405
54 Project Management, Consultant Coordination & Correspondence	40	40	160	40	40	20						140	40	480
Subtotal Hours	680.00	680.00	2,880.00	1,540.00	2,880.00	1,070.00	5,700.00	8,100.00	1,080.00	1,320.00	3,192.00	1,240.00	400.00	30762
Billing Rate	\$ 295.00	\$ 285.00	\$ 250.00	\$ 230.00	\$ 195.00	\$ 230.00	\$ 150.00	\$ 150.00	\$ 190.00	\$ 140.00	\$ 100.00	\$ 150.00	\$ 105.00	
Subtotal Direct Labor	\$ 200,600.00	\$ 193,800.00	\$ 720,000.00	\$ 354,200.00	\$ 561,600.00	\$ 246,100.00	\$ 855,000.00	\$ 1,215,000.00	\$ 205,200.00	\$ 184,800.00	\$ 319,200.00	\$ 186,000.00	\$ 42,000.00	\$ 5,283,500.00
TOTAL FEE														\$ -

Project Fee Proposal - (GS Interior Design)					
AVL Phase 2 Terminal Modernization					
GS Project Number					
4/9/2019					
Conceptual - Bidding	Task Description	Senior Interior Designer	Interior Designer	Interior Design Intern	Total
1	Task 1- Conceptual (12 weeks)	40	40	16	
2	Document Control and Project Set-up			8	8
3	Field Investigation			8	8
4	(Departures) Curbside Operations & Passenger Access	5	5		10
5	(Departures) Ticketing & Bag Check	5	5		10
6	(Departures) Passenger Screening	5	5		10
7	(Departures) Holdrooms & Concessions	5	5		10
8	(Arrivals) Passenger Exiting	5	5		10
9	(Arrivals) Baggage Claim	5	5		10
10	(Arrivals) Curbside Operations & Passenger Access	5	5		10
11	(Arrivals) Facilities & Circulation	5	5		10
12	Overall Programming Tabulations				0
13	Review of Record Documents				0
14	Compile As-built Documentation & site Analysis				0
15	Task 2- Schematic Design (12 weeks)	230	460	460	
16	Schematic Documents Preparation- Plans, Elevations, Sections	30	60	60	150
17	Schematic Design Renderings	40	80	80	200
18	Phasing Plans	40	80	80	200
19	Design Coordination Meetings	40	80	80	200
20	Contractor Coordination & Budget Estimate Reviews	40	80	80	200
21	QA/QC Reviews	40	80	80	200
22	Task 3- Design Development (16 weeks)	300	640	640	
23	Architectural Plans, Elevations, Sections & Details	10	20	20	50
24	Interior Design Plans, Elevations, Sections & Details	80	200	200	480
25	Signage & Wayfinding Documents	40	80	80	200
26	Life Safety Analysis & Plans	10	20	20	50
27	60% Technical Specifications	20	40	40	100
28	Design Development Phasing Plans	40	80	80	200
29	Design Coordination Meetings	40	80	80	200
30	Contractor Coordination & Budget Estimate Reviews	40	80	80	200
31	QA/QC Reviews	20	40	40	
32	Task 4- Construction Documents (24 weeks)	580	820	820	
33	Architectural Plans, Elevations, Sections & Details	20	40	40	100
34	Interior Design Plans, Elevations, Sections & Details	140	400	400	940
35	Signage & Wayfinding Documents	80	160	160	400
36	Life Safety Analysis & Plans	20	20	20	60
37	Technical Specifications	40	40	40	120
38	Final Phasing Plans	80	40	40	160
39	Design Coordination Meetings	80	40	40	160
40	Contractor Coordination & Budget Estimate Reviews	80	40	40	160
41	QA/QC Reviews	40	40	40	120
42	Task 5- Bidding/Permitting (8 weeks)	20	40	40	
43	Contractor Coordination	5	5	5	15
44	Permit Review Package Submittal		10	10	20
45	Permit Review Meetings		5	5	10
46	Incorporate AHJ Comments		5	5	10
47	Contractor Coordination- GMP Packages	5	5	5	15
48	Answer Subcontractor RFI's	5	5	5	15
49	GMP Reviews & Coordination	5	5	5	15
Subtotal Hours		1,170.00	2,000.00	1,976.00	5046
Billing Rate		\$ 190.00	\$ 140.00	\$ 100.00	
Subtotal Direct Labor		\$ 222,300.00	\$ 280,000.00	\$ 197,600.00	
TOTAL \$ 699,900.00					

GS- Wayfinding

Project Fee Proposal - (GS Wayfinding)						
AVL Phase 2 Terminal Modernization						
GS Project Number						
4/9/2019						
Conceptual - Bidding	Task Description	EGD Director	Senior EGD Designer	EGD Designer	Admin Assistant	Total
1	Task 1- Conceptual (12 weeks)	40	120	40	20	
2	Document Control and Project Set-up	20	20	30		70
3	Field Investigation		20			20
4	Review of Record Documents		20			20
5	Overall Programming		60	10		70
6	Project Management, Consultant Coordination & Correspondence	20			20	40
7	Task 2- Schematic Design (12 weeks)	40	200	80	20	
8	(Departures) Curbside Operations & Passenger Access		20	5		25
9	(Departures) Ticketing & Bag Check		20	5		25
10	(Departures) Passenger Screening		20	5		25
11	(Departures) Facilities & Circulation		20	5		25
12	(Arrivals) Passenger Exiting		20	5		25
13	(Arrivals) Baggage Claim		20	5		25
14	(Arrivals) Curbside Operations & Passenger Access		20	5		25
15	(Arrivals) Facilities & Circulation	10	20	5		35
16	Design Coordination Meetings	10	20	20		50
17	QA/QC Reviews	10	20	20		50
18	Project Management, Consultant Coordination & Correspondence	10			20	30
19	Task 3- Design Development (16 weeks)	20	220	120	40	
20	Signage & Wayfinding Documents		60	60		120
21	60% Technical Specifications		20	10		30
22	Building Design Concept & 3-D Modeling		40	20		60
23	Design Coordination Meetings	5	60	30		95
24	QA/QC Reviews	10	40			50
25	Project Management, Consultant Coordination & Correspondence	5			40	45
26	Task 4- Construction Documents (24 weeks)	20	260	100	80	
27	Signage & Wayfinding Documents		100	30		130
28	Technical Specifications		20	10		30
29	Contractor Coordination & Budget Estimate Reviews		20	10		30
30	Design Coordination Meetings	10	20	20		50
31	Coordination with other disciplines		80	20		100
32	QA/QC Reviews	5	20	10		35
33	Project Management, Consultant Coordination & Correspondence	5			80	85
34	Task 5- Bidding/Permitting (8 weeks)	8	34	22	10	
35	Process submittals and RFI's		17	11		28
36	Contractor Coordination- GMP Packages	8	17	11	10	46
Subtotal Hours		128.00	834.00	362.00	170.00	1494
Billing Rate		\$ 225.00	\$ 185.00	\$ 130.00	\$ 105.00	
Subtotal Direct Labor		\$ 28,800.00	\$ 154,290.00	\$ 47,060.00	\$ 17,850.00	
TOTAL					\$	248,000.00

Project Fee Proposal - (GS Structural)							
AVL Phase 2 Terminal Modernization							
GS Project Number							
4/9/2019							
Conceptual - Bidding	Task Description	Structural Director	Senior Structural Designer	Structural Designer	Structural Coordinator	Admin Assistant	Total
1	Task 1- Conceptual (12 weeks)	10	120	40	60	20	
2	Code research - development of design loads		40	10	20		70
3	Revit model of existing conditions				20		20
4	Coordination with geotechnical engineer		20	10	20		50
5	Coordination with Blast Analysis consultant		20	10			30
6	Site visit to review existing conditions		20	10			30
7	Project Management, Consultant Coordination & Correspondence	10	20			20	50
8	Task 2- Schematic Design (12 weeks)	10	360	480	400	20	
9	Develop framing concepts and select a final concept for the building structure		40	60	60		160
10	Develop foundation concepts and select a final concept to support building structure		40	60	60		160
11	Capacity studies of existing building frame for attachment of new framework		40	50	50		140
12	Existing subgrade utility review		40	50	10		100
13	Develop framing concepts for support of vertical circulation elements		40	50	50		140
14	Develop framing concepts where support is required for exterior wall		30	50	50		130
15	Site visits to review and document existing conditions		30	40	40		110
16	Coordination of framing concepts with Architecture		30	40	40		110
17	Coordination with Blast Analysis consultant		30	40	40		110
18	Attend design team meetings						
19	Project Management, Consultant Coordination & Correspondence	10	40	40		20	110
20	Task 3- Design Development (16 weeks)	20	480	600	723	40	
21	Complete design of foundation elements, develop typical foundation details		60	100	160		320
22	Complete design of building structure elements, develop typical framign details		80	120	160		360
23	Complete design of vertical circulation support		40	80	120		240
24	Develop Project Specifications and General Notes for drawings		60	100	123		283
25	Coordination with Architecture/MEP/Civil		60	60	160		280
26	Coordinate with Blast Consultant		60	60			120
27	Attend team meetings, site visits		80	80			160
28	Project Management, Consultant Coordination & Correspondence	20	40			40	100
29	Task 4- Construction Documents (24 weeks)	20	740	930	960	80	
30	Complete design of foundation elements, develop typical foundation details		100	170	260		530
31	Complete design of building structure elements, develop typical framign details		120	200	260		580
32	Complete design of vertical circulation support		100	160	160		420
33	Develop Project Specifications and General Notes for drawings		60	120	120		300
34	Coordination with Architecture/MEP/Civil		120	160	160		440
35	Coordinate with Blast Consultant		80	40			120
36	Attend team meetings, site visits		80	80			160
37	Project Management, Consultant Coordination & Correspondence	20	80			80	180
38	Task 5- Bidding/Permitting (8 weeks)	8	40	80	40	10	
39	Process submittals and RFI's		20	40	20		80
40	Contractor Coordination- GMP Packages	8	20	40	20	10	98
Subtotal Hours		68.00	1,740.00	2,130.00	2,183.00	170.00	6291
Billing Rate		\$ 265.00	\$ 250.00	\$ 175.00	\$ 110.00	\$ 105.00	
Subtotal Direct Labor		\$ 18,020.00	\$ 435,000.00	\$ 372,750.00	\$ 240,130.00	\$ 17,850.00	
TOTAL						\$ 1,083,750.00	

CS-MPE

Project Fee Proposal - AME Consulting Engineers									
AVL - Terminal Modernization Project									
6/10/2019 - Revision #2									
Programming & Conceptual Design		Principal	Director	Senior Engineer	Jr Engineer	Technician	Admin	subtotal	Total
	Task Description								
1	Task 1- Concetpual Design (12 weeks)	100	0	504	0	0	0	\$104,020	
2	Plumbing								0
3	Mechanical	50		252					302
4	Electrical	50		252					302
5	Administrative								0
6	104020								
7	Task 2- Schematic Design (12 weeks)	60	0	883	147	0	42	\$182,035	
8	Plumbing			221	40				261
9	Mechanical	30		221	40				291
10	Electrical	30		441	67				539
11	Administrative						42		42
12	182035								0
13									
14									0
15									0
16									0
17									0
18									0
19	Task 3- Design Development (16 weeks)	178	474	1128	2756	2127	216	\$930,200	
20	Plumbing			282	689	532			1502
21	Mechanical	89	237	282	689	532			1828
22	Electrical	89	237	564	1378	1063			3331
23	Administrative						216		216
24	930200								0
25									0
26									
27	Task 4- Construction Documents (24 weeks)	434	696	1380	3372	1843	397	\$1,138,240	
28	Plumbing			345	843	542			1730
29	Mechanical	217	348	345	843	542			2295
30	Electrical	217	348	690	1686	759			3700
31	Administrative						397		397
	1138240								
32	Task 5- Bidding / Permitting (8 weeks)	0	0	158	0	0	0	\$26,005	
33	RFI Responses			158					158
34	26005								
Subtotal Hours		770.54	1,171.47	4,051.74	6,277.04	3,969.04	655.72		16896
Billing Rate		\$ 210.00	\$ 196.00	\$ 165.00	\$ 135.00	\$ 105.00	\$ 86.00		
Subtotal Direct Labor		\$ 161,813.65	\$ 229,608.80	\$ 668,537.00	\$ 847,399.85	\$ 416,748.80	\$ 56,391.90	\$ -	\$ 2,380,500.00

	Name of Traveller	Name of Firm	Length of Trip (nights)	Travel Origination City	Travel Destination City	Mileage Cost (\$) At Origination City	Parking Cost (\$) At Origination City (Daily Rate)	Air Fare Cost (\$)	Hotel Cost (\$) At Destination City (Nightly Rate)	Rental Car Cost (\$) At Destination City (Daily Rate)	Total Fuel Cost (\$) At Destination City	Meal Costs (\$) (Daily Rate)	Total Trip Cost (\$)	Number of Trips	Trip Costs (\$)		Total (\$)
															Trip Costs (\$)	Total (\$)	
1	Mech/Plumb Engineer	AME	1	Charlotte	AVL	\$ -	\$ -	\$ -	\$ 190.00	\$ 150.00	\$ 50.00	\$ 150.00	\$ 540.00	64	\$ 34,560.00	\$ 34,560.00	
2	Electrical Engineer	AME	1	Charlotte	AVL	\$ -	\$ -	\$ -	\$ 190.00	\$ 150.00	\$ 50.00	\$ 150.00	\$ 540.00	64	\$ 34,560.00	\$ 34,560.00	
3	(Trips shown for various mtgs-					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0	\$ -	\$ -	
4	no CA trips are included)					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0	\$ -	\$ -	
5						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0	\$ -	\$ -	
6						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0	\$ -	\$ -	
7													\$ -		\$ -	\$ -	
8													\$ -		\$ -	\$ -	
														128	\$ 69,120.00	\$ 69,120.00	

Name of Traveller	Name of Firm	Length of Trip (nights)	Travel Origination City	Travel Destination City	Mileage Cost (\$) At Origination City	Automobile Mileage Cost (\$)	Parking Cost (\$)		Air Fare Cost (\$)	Hotel Cost (\$)		Rental Car Cost (\$) At Destination City (Daily Rate)	Total Fuel Cost (\$)		Meal Costs (\$) (Daily Rate)	Total Trip Cost (\$)	Number of Trips	Trip Costs (\$)	Total (\$)
							At Origination City (Daily Rate)	At Destination City (Nightly Rate)		At Destination City	At Destination City								
1	TBD 1	DAC	1	CLT	AVL	\$ -	\$ 145.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15.00	\$ 160.00	22	\$ 3,520.00	\$ 3,520.00	
2	TBD 2	DAC	1	CLT	AVL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15.00	\$ 15.00	22	\$ 330.00	\$ 330.00	
3	TBD 3	DAC	1	RIC	AVL	\$ 25.00	\$ -	\$ 25.00	\$ 500.00	\$ 150.00	\$ -	\$ -	\$ -	\$ 50.00	\$ 750.00	0	\$ -	\$ -	
4	Name of traveler	Company	1	Enter City	AVL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15.00	\$ 15.00		\$ -	\$ -	
5	Name of traveler	Company	1	Enter City	AVL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15.00	\$ 15.00		\$ -	\$ -	
6	Name of traveler	Company	1	Enter City	AVL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15.00	\$ 15.00		\$ -	\$ -	
7														\$ -	\$ -		\$ -	\$ -	
8														\$ -	\$ -		\$ -	\$ -	
																	44	\$ 3,850.00	\$ 3,850.00

MISC. \$ 600.00
Total \$ 4,450.00

Use NTE \$ 4,500.00

CS - Code Consulting

Project Fee Proposal - Arora Engineers, Inc (Low Voltage)														
AVL - Terminal Modernization Project														
3/6/2019														
Programming & Conceptual Design	PIC	Chief Engineer II/PM	Discipline Lead	Sr. Specialist III	Sr. Specialist II	Specialist III	BIM Manager	BIM Technician	Project Coordinator					Total
Task Description														
1	Task 1- Conceptual Design (12 weeks)			32										
2	Survey													0
3	Existing Conditions Drawing Review			8										8
4	Basis of Design Report			16										16
5	Concept Design Drawings			8										8
6														0
7	Task 2- Schematic Design (12 weeks)			60										
8														0
9	Code Consulting			60										60
10														0
11														0
12														0
13														0
14														0
15														0
16														0
17														0
18														0
19	Task 3- Design Development (16 weeks)			60										
20														0
21	Code Consulting			60										60
22														0
23														0
24														0
25														0
26														0
27														0
28														0
29														0
30	Task 4- Construction Documents (24 weeks)			120										
31														0
32	Code Consulting			120										120
33														0
34														0
35	Task 5- Bidding / Permitting (8 weeks)			8										
36	Addenda			4										4
37	RFI			4										
Subtotal Hours			-	-	280.00	-	-	-	-	-	-	-	-	276
Billing Rate			\$ 341.00	\$ 262.00	\$ 218.00	\$ 174.00	\$ 161.00	\$ 152.00	\$ 151.00	\$ 125.00	\$ 92.00			
Subtotal Direct Labor			\$ -	\$ -	\$ 61,040.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 61,040.00
													TOTAL FEE	\$ 61,040.00

Project Fee Proposal - Arora Engineers, Inc (Low Voltage)										
AVL - Terminal Modernization Project										
3/6/2019										
Programming & Conceptual Design		PIC	Chief Engineer II/PM	Discipline Lead	Sr. Specialist III	Specialist III	BIM Manager	BIM Technician	Project Coordinator	Total
Task Description										
1	Task 1- Concetpual Design (12 weeks)	0	32	72	128	88	24	40	12	
2	Survey		8	16	24	24				72
3	Existing Conditions Drawing Review		8	16	24	24		8		80
4	Basis of Design Report		8	16	40	20		8	12	104
5	Concept Design Drawings		8	24	40	20	24	24		140
6										0
7	Task 2- Schematic Design (12 weeks)	0	40	80	80	160	60	120	40	
8	Special Systems		40	80	80	160	60	120	40	580
9										0
10										0
11										0
12										0
13										0
14										0
15										0
16										0
17										0
18										0
19	Task 3- Design Development (16 weeks)	0	40	100	100	200	100	160	80	
20	Special Systems		40	100	100	200	100	160	80	780
21										0
22										0
23										0
24										0
25										0
26										0
27										0
28										0
29										0
30	Task 4- Construction Documents (24 weeks)	6	120	140	160	320	100	160	80	
31	Special Systems	6	120	140	160	320	100	160	80	1086
32										0
33										0
34										0
35	Task 5- Bidding / Permitting (8 weeks)	0	8	20	12	12	0	8	0	
36	Addenda		8	12	12	12		8		52
37	RFI			8						
Subtotal Hours		6.00	240.00	412.00	480.00	780.00	284.00	488.00	212.00	2894
Billing Rate		\$ 341.00	\$ 262.00	\$ 218.00	\$ 174.00	\$ 152.00	\$ 151.00	\$ 125.00	\$ 92.00	
Subtotal Direct Labor		\$ 2,046.00	\$ 62,880.00	\$ 89,816.00	\$ 83,520.00	\$ 118,560.00	\$ 42,884.00	\$ 61,000.00	\$ 19,504.00	\$ 480,210.00
TOTAL FEE \$ 480,210.00										

Project Fee Proposal - Arora Engineers, Inc (Fire Protection)											
AVL - Terminal Modernization Project											
6/19/2019											
Programming & Conceptual Design		PIC	Chief Engineer II/Director	Project Manager	Discipline Lead	Sr. Specialist III	Sr. Specialist II	BIM Manager	BIM Technician	Project Coordinator	Total
Task Description											
1	Task 1- Concetpual Design (12 weeks)	0	8	40	24	84	82	8	12	12	
2	Survey			8		20	20				48
3	Existing Conditions Drawing Review			8	8	20	20				56
4	Basis of Design Report		4	12	8	20	12			12	68
5	Concept Design Drawings		4	12	8	24	30	8	12		98
6											0
7	Task 2- Schematic Design (12 weeks)	3	10	40	20	40	64	40	40	16	
8	FP - Drawings	2	8	40	16	24	64	40	40		234
9	FP - Specs	1	2		4	16				16	39
10											0
11											0
12											0
13											0
14											0
15											0
16											0
17											0
18											0
19	Task 3- Design Development (16 weeks)	3	10	40	20	64	100	20	80	16	
20	FP - Drawings	2	8	40	16	40	100	20	80		306
21	FP - Specs	1	2		4	24				16	47
22											0
23											0
24											0
25											0
26											0
27											0
28											0
29											0
30	Task 4- Construction Documents (24 weeks)	16	24	80	20	92	176	40	80	16	
31	FP - Drawings	8	16	80	16	80	160	40	80		480
32	FP - Specs	8	8		4	12	16			16	64
33											0
34											0
35	Task 5- Bidding / Permitting (8 weeks)	0	10	10	10	10	0	0	0	0	
36	Addenda		10	10	10	10					40
37	RFI										0
Subtotal Hours		22.00	62.00	210.00	94.00	290.00	422.00	108.00	212.00	60.00	1480
Billing Rate		\$ 341.00	\$ 262.00	\$ 231.00	\$ 218.00	\$ 174.00	\$ 161.00	\$ 151.00	\$ 125.00	\$ 92.00	
Subtotal Direct Labor		\$ 7,502.00	\$ 16,244.00	\$ 48,510.00	\$ 20,492.00	\$ 50,460.00	\$ 67,942.00	\$ 16,308.00	\$ 26,500.00	\$ 5,520.00	\$ 259,478.00
										TOTAL FEE	\$ 259,478.00

	Name of Traveller	Name of Firm	Length of Trip (nights)	Travel Origination City	Travel Destination City	Mileage Cost (\$) At Origination City	Parking Cost (\$) At Origination City (Daily Rate)	Air Fare Cost (\$)	Hotel Cost (\$) At Destination City (Nightly Rate)	Rental Car Cost (\$) At Destination City (Daily Rate)	Total Fuel Cost (\$) At Destination City	Meal Costs (\$) (Daily Rate)	Total Trip Cost (\$)	Number of Trips	Trip Costs (\$)	Total (\$)
1	Jason Shevrin	Arora Engin	1	Philadelphia	AVL	\$ 15.00	\$ 24.00	\$ 500.00	\$ 190.00	\$ 85.00	\$ 20.00	\$ 75.00	\$ 909.00	6	\$ 5,454.00	\$ 5,454.00
2	Edward Hart	Arora Engin	1	Philadelphia	AVL	\$ 15.00	\$ 24.00	\$ 500.00	\$ 190.00	\$ 85.00	\$ 20.00	\$ 75.00	\$ 909.00	2	\$ 1,818.00	\$ 1,818.00
3	Robert Bornstein	Arora Engin	1	Philadelphia	AVL	\$ 15.00	\$ 24.00	\$ 500.00	\$ 190.00	\$ 85.00	\$ 20.00	\$ 75.00	\$ 909.00	4	\$ 3,636.00	\$ 3,636.00
4	Meghan Doyle	Arora Engin	1	Philadelphia	AVL	\$ 15.00	\$ 24.00	\$ 500.00	\$ 190.00	\$ 85.00	\$ 20.00	\$ 75.00	\$ 909.00	2	\$ 1,818.00	\$ 1,818.00
5	Chase Miller	Arora Engin	1	Newark	AVL	\$ 15.00	\$ 30.00	\$ 500.00	\$ 190.00	\$ 85.00	\$ 20.00	\$ 75.00	\$ 915.00	6	\$ 5,490.00	\$ 5,490.00
6	Art Simpson	Arora Engin	1	Newark	AVL	\$ 15.00	\$ 30.00	\$ 500.00	\$ 190.00	\$ 85.00	\$ 20.00	\$ 75.00	\$ 915.00	2	\$ 1,830.00	\$ 1,830.00
7	Bill Boozer	Arora Engineers		Newark	AVL	\$ 15.00	\$ 30.00	\$ 500.00	\$ 190.00	\$ 85.00	\$ 20.00	\$ 75.00	\$ 535.00	2	\$ 1,070.00	\$ 1,070.00
8															\$ -	\$ -
														24	\$ 21,116.00	\$ 21,116.00

Project Fee Proposal - Vaughn & Melton							
AVL - Terminal Modernization Project (Surveying)							
6/14/2019							
Programming & Conceptual Design	PLS	Admin	CAD Tech	Sue Locator	Vaccume Excavation Truck	2-Man Survey Crew	Total
Task Description							
1 Task 1- Topographical Information Collection & SUE							
2 Utility Mark and Identify		1		120			121
3 Locate SUE Marks		1				60	61
4 Elevate PCC Joints & Other		1				80	81
5 Ext. Building Corners with FFE		1				40	41
6 Locate Taxiway "K" & Runway CL @ 25' Intervals		1				20	21
7 Locate Drainage Structures to Next Structure Outside Limits		1				50	51
8 Locate 10 Pavement Corings		1				5	6
9 Drafting	4	1	78				83
10 Task 2- SUE Analysis							
11 SUE Assesment	1		16				17
12 SUE Verification with Vaccume Excavation	1				20		21
13 Task 3- Verify Critical Elevations							
14 Field						20	20
15 Office			16				16
Subtotal Hours	5.00	8.00	110.00	120.00	20.00	275.00	538
Billing Rate	\$ 115.00	\$ 50.00	\$ 95.00	\$ 125.00	\$ 250.00	\$ 155.00	
Subtotal Direct Labor	\$ 575.00	\$ 400.00	\$ 10,450.00	\$ 15,000.00	\$ 5,000.00	\$ 42,625.00	\$ 74,050.00
TOTAL FEE							\$ 74,050.00

Project Fee Proposal - Vaughn & Melton							
AVL - Terminal Modernization Project (Design)							
6/14/2019							
Programming & Conceptual Design		Sr. Project Mgr.	Senior P.E.	Cadd Technician	Administrative		Total Hours
	Task Description						
1	Task 1- Conceptual Design (12 weeks)	56	88	92	0		
2	Various meetings	24	24				48
3	Coordination between Site Civil and Building Systems (Land Side)	12	24	60			96
4	Coordination with Utility Companies	12	24				36
5	Identify Potential Utility Conflicts	8	16	32			56
6	Task 2- Schematic Design (12 weeks)	64	158	150	24		
7	Various meetings	24	24				48
8	Preliminary layout of grading drainage and erosion control plan (Land Side)	8	32	60			100
9	Preliminary layout of site civil utilities (water and sewer)	8	16	60			84
10	Design calculations	16	30	30			76
11	Outline Specifications	4	24		8		36
12	Preliminary Cost Estimate	4	32		16		52
13	Task 3- Design Development (16 weeks)	65	160	112	20		
14	Various meetings	32	32				64
15	Grading Drainage and Erosion Control Plan Revisions (Land Side)	8	32	40			80
16	Update layout of site civil utilities (water and sewer)	8	16	32			56
17	Design calculations	12	40	40			92
18	Refine Outline Specifications	1	8		4		13
19	Preliminary Cost Estimate	4	32		16		52
20	Task 4- Construction Documents (24 weeks)	106	224	160	76		
21	Various meetings	48	48				96
22	Preparation of Site Civil Specifications	24	60		60		144
23	Prepare Final Construction Plans with notes and details	30	100	160			290
24	Prepare Final Construction Cost Estimate	4	16		16		36
25	Task 5- Bidding/ Permitting (8 weeks)	32	140	100	72		
26	Various meetings	16	16				32
27	Preparing Addenda	8	24		32		64
28	Permitting site civil design features	8	100	100	40		248
Subtotal Hours		323.00	770.00	614.00	192.00		1899
Billing Rate		\$ 205.00	\$ 155.00	\$ 95.00	\$ 50.00		
Subtotal Direct Labor		\$ 66,215.00	\$ 119,350.00	\$ 58,330.00	\$ 9,600.00	\$ -	\$ 253,495.00
TOTAL FEE							\$ 253,495.00

Project Fee Proposal - JSM & Associates														
AVL - Terminal Modernization Project														
3/22/2019														
Task Description	Program Manager	Project Manager	BHS Designer	Mechanical Engineer	Elect Controls Eng	PE	CAD Designer	BHS Installation Specialist	Administration	Fill in staff title	Fill in staff title	Fill in staff title	Fill in staff title	Total
1 Task 1- Conceptual Design (12 weeks)														
2 Data Collection														0
3 Zoning scheme(s) definition and demand estimation														0
4 Preliminary screening alternatives development														
5 Preliminary screening alternatives evaluation														
6 Preliminary screening alternatives selection														
7 Selected screening alternative refinement														
8 Staffing level estimates and equipment cost estimates														
9 ROM evaluations and life-cycle cost analysis														
10 Preferred screening alternatives selection														
11 Alternative analysis report														
12 Participation in Design Review Meeting														
13 Submit to TSA														
14 Airport and TSA approval														
15 Determine TSA Equipment Counts														0
16 Develop Alternative Designs														0
17 Total Hours	32	180	40	96	40		216		40					644
18 Task 2- Schematic Design (12 weeks)														
19 Refine Alternative Analysis														0
20 Develop Program Schedule														0
21 Develop ROM Pricing														0
22 Develop Draft Contingency Plan														0
23 Develop Phasing & Constructability Plan														0
24 Develop & Submit Basis of Design Report														0
25 Stakeholder Notification Documentation														0
26 Review & incorporate TSA Comments														0
27 Develop Draft ROM of power requirement														0
28 Participate in TSA Meetings (TIMs)														0
29 Draft Specifications														0
30 Total Hours	40	216	40	116	96		188		48					744
31 Task 3- Design Development (16 weeks)														
32 30 % Design Development of Preferred Alternative														0
33 30% CWE and LCCA														
34 Program schedule update														
35 Updated indication of expected equipment type														
36 30% Design Submittals														
37 ILDT/TSA Design Review Meeting														
38 Approval/rejections and submittal comments														
39 TSA memorandum regarding final design approval requirements														
40 70 % Design Development														
41 70% LCCA														
42 Program schedule update														
43 Updated indication of expected equipment type														
44 70% Design Submittals														
45 ILDT/TSA Design Review Meeting														
46 Approval/rejections and submittal comments														
47 TSA memorandum regarding final design approval requirements														
48 90 % Design Development														
49 90% LCCA														
50 Program schedule update														
51 Updated indication of expected equipment type														
52 90% Design Submittals														
53 ILDT/TSA Design Review Meeting														
54 Approval/rejections and submittal comments														
55 TSA memorandum regarding final design approval requirements														
56 Update BDR & Specifications														0
57 Refinement of Contingency Plan/Configuration Management Plan/Project Schedule														0
58 Update ROMs (Price & Power)														0
59 Stakeholder Notification Documentation														0
60 Submit to TSA & Incorporate Comments														0
61 Participate in TSA Meetings (TIMs)														0
62 Total Hours	48	256	40	64	64		220		56					748
63 Task 4- Construction Documents (24 weeks)														
64 100% Construction Documentation (design)														0
65 100% LCCA														
66 Program schedule update														
67 Updated indication of expected equipment type														
68 100% Design Submittals														
69 ILDT/TSA Design Review Meeting														
70 Approval/rejections and submittal comments														
71 TSA memorandum regarding final design approval requirements														
72 Bid Documents														
73 Final Basis of Design Report														
74 Final Contingency Plan/Configuration Management Plan/Project Schedule														0
75 Final Specifications														0
76 Final Description of Operations														0
77 Total Hours - Task 4	40	88		32	64	32	60		40					356
78 Task 5- Bidding / Permitting (8 weeks)														
79 Assist in Bidding Document Preparation														0
80 Answer RFIs / Assist in Proposal Evaluation														
81 Total Hours - Task 5	4	24	0	4	4	0	0	0	8					
Subtotal Hours	164.00	764.00	120.00	312.00	268.00	32.00	684.00	-	192.00	-	-	-	-	2492
Billing Rate	\$ 206.25	\$ 185.63	\$ 171.88	\$ 171.88	\$ 158.13	\$ 185.63	\$ 82.50	\$ 151.25	\$ 68.75	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal Direct Labor	\$ 33,825.00	\$ 141,817.50	\$ 20,625.00	\$ 53,625.00	\$ 42,377.50	\$ 5,940.00	\$ 56,430.00	\$ -	\$ 13,200.00	\$ -	\$ -	\$ -	\$ -	\$ 367,840.00
TOTAL FEE														\$ 367,840.00

	Name of Traveller	Name of Firm	Length of Trip (nights)	Travel Origination City	Travel Destination City	Mileage Cost (\$) At Origination City	Parking Cost (\$) At Origination City (Daily Rate)	Air Fare Cost (\$)	Hotel Cost (\$) At Destination City (Nightly Rate)	Rental Car Cost (\$) At Destination City (Daily Rate)	Total Fuel Cost (\$) At Destination City	Meal Costs (\$) (Daily Rate)	Total Trip Cost (\$)	Number of Trips	Trip Costs (\$)	Total (\$)
1	Project Manager - John Lehma	JSM	2	SFO	AVL	\$ 15.00	\$ 20.00	\$ 500.00	\$ 190.00	\$ 85.00	\$ 20.00	\$ 75.00	\$ 1,275.00	5	\$ 6,375.00	\$ 6,375.00
2	BHS Designer - Chris Fisher	JSM	2	MCO	AVL	\$ 15.00	\$ 20.00	\$ 500.00	\$ 190.00	\$ 85.00	\$ 20.00	\$ 75.00	\$ 1,275.00	3	\$ 3,825.00	\$ 3,825.00
3	Elec. Eng - Ray Holly	JSM	2	MCO	AVL	\$ 15.00	\$ 20.00	\$ 500.00	\$ 190.00	\$ 85.00	\$ 20.00	\$ 75.00	\$ 1,275.00	2	\$ 2,550.00	\$ 2,550.00
4	Program Mgr - Blair Cox	JSM	2	MCO	AVL	\$ 15.00	\$ 20.00	\$ 500.00	\$ 190.00	\$ 85.00	\$ 20.00	\$ 75.00	\$ 1,275.00	2	\$ 2,550.00	\$ 2,550.00
5	Name of traveler	Company	1	Enter City	AVL	\$ 15.00	\$ 20.00	\$ 500.00	\$ 190.00	\$ 85.00	\$ 20.00	\$ 75.00	\$ 905.00	1	\$ 905.00	\$ 905.00
6	Name of traveler	Company	1	Enter City	AVL	\$ 15.00	\$ 20.00	\$ 500.00	\$ 190.00	\$ 85.00	\$ 20.00	\$ 75.00	\$ 905.00	1	\$ 905.00	\$ 905.00
7													\$ -		\$ -	\$ -
8													\$ -		\$ -	\$ -
														14	\$ 17,110.00	\$ 17,110.00

GS - Envelope

Project Fee Proposal - Construction Moisture Consulting, Inc.															
AVL - Terminal Modernization Project															
4/8/2019															
Programming & Conceptual Design	Principal in Charge	Fill in staff title	Fill in staff title	Fill in staff title	Fill in staff title	Fill in staff title	Fill in staff title	Fill in staff title	Fill in staff title	Fill in staff title	Fill in staff title	Fill in staff title	Fill in staff title	Fill in staff title	Total
Task Description															
1	Task 1- Conceptual Design (12 weeks)														
2	Fill in specific task														0
3	Fill in specific task														0
4	Fill in specific task														0
5	Fill in specific task														0
6	Fill in specific task														0
7	Task 2- Schematic Design (12 weeks)														
8	Fill in specific task														0
9	Fill in specific task														0
10	Fill in specific task														0
11	Fill in specific task														0
12	Fill in specific task														0
13	Fill in specific task														0
14	Fill in specific task														0
15	Fill in specific task														0
16	Fill in specific task														0
17	Fill in specific task														0
18	Fill in specific task														0
19	Task 3- Design Development (16 weeks)														
20	Design Review - 100% Completion Phase	60													60
21	Fill in specific task														0
22	Fill in specific task														0
23	Fill in specific task														0
24	Fill in specific task														0
25	Fill in specific task														0
26	Fill in specific task														0
27	Task 4- Construction Documents (24 weeks)														
28	Construction Document Review - 50% Completion Phase	80													80
29	Construction Document Review - 95% Completion Phase	100													100
30	Fill in specific task														0
31	Fill in specific task														0
32	Task 5- Bidding / Permitting (8 weeks)														
33	Fill in specific task														0
34	Fill in specific task														0
35	Task 6- Construction Administration (156 weeks)														
36	Fill in specific task														0
37	Fill in specific task														0
Subtotal Hours		240.00	-	-	-	-	-	-	-	-	-	-	-	-	240
Billing Rate		\$ 208.00													
Subtotal Direct Labor		\$ 49,920.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 49,920.00
TOTAL FEE														\$ 49,920.00	

Project Fee Proposal - THORNTON TOMASETTI					
AVL - Terminal Modernization Project					
4/9/2019					
	Task Description	Principal/SR VP	Associate	Senior Engineer/SR BIM	Total
1	Task 1- Conceptual Design (12 weeks)	23	58	42	
2	Review existing drawings.	1	8	8	17
3	Evaluate potential VBIED threats.	1	8	8	17
4	Evaluate potential hostile vehicle (ramming) threats.	1	2	2	5
5	Develop blast and hostile vehicle mitigation performance design criteria.	2	8	8	18
6	Draft preliminary physical security narrative.	2	16	16	34
7	Travel: Meet with Owner to present proposed physical security design criteria.	16	16	0	32
8	Fill in specific task				0
9	Task 2- Schematic Design (12 weeks)	20	90	128	
10	Calculate blast design loads.	2	4	16	22
11	Calculate blast-induced base shears.	1	2	4	7
12	Preliminary blast analysis/design of façade.	4	12	24	40
13	Preliminary blast analysis/design of structural elements.	4	12	24	40
14	Preliminary vehicle vector analysis.	1	4	4	9
15	Preliminary analysis/design of hostile vehicle mitigation measures.	4	40	16	60
16	Draft SD Physical Security Design Narrative	4	16	40	60
17	Task 3- Design Development (16 weeks)	20	120	157	
18	Finalize blast design loads.	1	4	12	17
19	Finalize blast-induced base shears.	1	2	8	11
20	Develop blast analysis/design of façade.	4	16	32	52
21	Develop blast analysis/design of structural elements.	4	16	32	52
22	Finalize vehicle vector analysis.	1	4	4	9
23	Develop analysis/design of hostile vehicle mitigation measures.	4	40	16	60
24	Draft DD Physical Security Design Narrative	4	16	40	60
25	Draft blast performance specifications.	1	6	13	20
26	Travel (1 trip for 1 person)	0	16	0	16
27	Task 4- Construction Documents (24 weeks)	34	80	144	
28	Finalize blast analysis/design of façade.	8	12	40	60
29	Finalize blast analysis/design of structural elements.	8	12	40	60
30	Finalize analysis/design of hostile vehicle mitigation measures.	4	16	8	28
31	Finalize CD Physical Security Design Narrative	8	12	32	52
32	Finalize Blast performance specifications.	4	4	8	16
33	Coordinate physical security design requirements with architect and struct. Eng	2	8	16	26
34	Travel (1 trip for 1 person)	0	16	0	16
35	Task 5- Bidding / Permitting (8 weeks)	4	8	16	
36	Review physical security-related RFI's.	4	8	16	28
37	Fill in specific task				
Subtotal Hours		101.00	356.00	487.00	944
Billing Rate		\$ 232.65	\$ 140.92	\$ 103.23	
Subtotal Direct Labor		\$ 23,497.65	\$ 50,167.52	\$ 50,273.01	\$ 123,938.18
TOTAL FEE					\$ 123,938.18
USE Lump Sum (Rounded)					\$ 124,000.00

	Name of Traveller	Name of Firm	Length of Trip (nights)	Travel Origination City	Travel Destination City	Mileage Cost (\$) At Origination City	Parking Cost (\$) At Origination City (Daily Rate)	Air Fare Cost (\$)	Hotel Cost (\$) At Destination City (Nightly Rate)	Rental Car Cost (\$) At Destination City (Daily Rate)	Total Fuel Cost (\$) At Destination City	Meal Costs (\$) (Daily Rate)	Total Trip Cost (\$)	Number of Trips	Trip Costs (\$)	Total (\$)
1	Brent Vollenweider	Thornton Tc	2	Boston	AVL	\$ 15.00	\$ 35.00	\$ 400.00	\$ 190.00	\$ 50.00	\$ -	\$ 75.00	\$ 925.00	2	\$ 1,850.00	\$ 1,850.00
2	Lynne Bregman	Thornton Tc	2	Boston	AVL	\$ 15.00	\$ 35.00	\$ 400.00	\$ 190.00	\$ 50.00	\$ -	\$ 75.00	\$ 925.00	3	\$ 2,775.00	\$ 2,775.00
														5	\$ 4,625.00	\$ 4,625.00

MISC. \$ 350.00
Total \$ 4,975.00
Use NTE \$ 5,000.00

NO SPREADSHEET PROVIDED, TAKEN FROM PROPOSAL

S&ME OPINION OF PROBABLE COST				
AVL Terminal Expansion - Requested Scope				
Asheville, North Carolina				
S&ME Proposal No. 14-1900227				
Service	Units	Unit Cost	Subtotals	TOTALS
FIELD EXPLORATION				
Mobilization (ATV or Truck Rig)	2 Trip	\$550.00 per each	\$1,100.00	
Drill Rig and Crew Day/Night Rate (includes per diem)	8 Days	\$2,500.00 per each	\$20,000.00	
Bulk Samples	6 Each	\$50.00 per each	\$300.00	
Hole Plugs	21 Each	\$10.00 per each	\$210.00	
Concrete Patching Boreholes	21 Each	\$35.00 per each	\$735.00	
Light Tower Rental	2 Week	\$500.00 per each	\$1,000.00	
Concrete Coring Subcontractor	1 Days	\$1,250.00 per each	\$1,250.00	
Concrete Coring Truck	7 Days	\$250.00 per each	\$1,750.00	
Private Utility Locator	8 Hours	\$150.00 per each	\$1,200.00	
			SUBTOTAL DRILLING	\$27,545.00
SOILS LAB				
Moisture Content	8 Tests	\$15.00 per each	\$120.00	
Atterberg Limits (Dry Prep)	4 Tests	\$80.00 per each	\$320.00	
Wash #200	6 Tests	\$53.00 per each	\$318.00	
Sieve with Hydrometer	4 Tests	\$155.00 per each	\$620.00	
Modified Proctor Compaction	4 Tests	\$190.00 per each	\$760.00	
1 point CBR	4 Tests	\$160.00 per each	\$640.00	
Box Resistivity, ASTM	2 Tests	\$85.00 per each	\$170.00	
pH of Soil, Slurry Method	2 Tests	\$60.00 per each	\$120.00	
			SUBTOTAL LABORATORY	\$3,068.00
GEOTECHNICAL PROFESSIONAL SERVICES				
P6 Principal Professional (Grade VI)	3 Hours	\$185.00 per each	\$555.00	
P5 Senior Professional (Grade V)	25 Hours	\$160.00 per each	\$4,000.00	
P4 Project Professional (Grade IV)	Hours	\$140.00 per each	\$0.00	
P3 Project Professional (Grade III)	0 Hours	\$125.00 per each	\$0.00	
P2 Staff Professional (Grade II)	40 Hours	\$105.00 per each	\$4,200.00	
P1 Staff Professional (Grade I) - full time badged escort	90 Hours	\$95.00 per each	\$8,550.00	
S1 Administrative Support (S1)	6 Hours	\$60.00 per each	\$360.00	
T1 Technician (transport samples)	5 Hours	\$50.00 per each	\$250.00	
CAD	2 Hours	\$70.00 per each	\$140.00	
Mileage	300 Miles	\$0.60 per each	\$180.00	
			SUBTOTAL ENGINEERING	\$18,235.00
			TOTAL ESTIMATED COST	\$48,848.00

TOTAL \$64,849

S&ME OPINION OF PROBABLE COST				
AVL Terminal Expansion - Supplemental Borings (if needed)				
Asheville, North Carolina				
S&ME Proposal No. 14-1900227				
Service	Units	Unit Cost	Subtotals	TOTALS
FIELD EXPLORATION				
Mobilization (ATV or Truck Rig)	1 Trip	\$550.00 per each	\$550.00	
Drill Rig and Crew Day/Night Rate (includes per diem)	2 Days	\$2,500.00 per each	\$5,000.00	
Bulk Samples	0 Each	\$50.00 per each	\$0.00	
Hole Plugs	2 Each	\$10.00 per each	\$20.00	
Concrete Patching Boreholes	2 Each	\$35.00 per each	\$70.00	
Light Tower Rental	1 Week	\$500.00 per each	\$500.00	
Concrete Coring Subcontractor	1 Days	\$1,250.00 per each	\$1,250.00	
Concrete Coring Truck	0 Days	\$250.00 per each	\$0.00	
Private Utility Locator	4 Hours	\$150.00 per each	\$600.00	
			SUBTOTAL DRILLING	\$7,990.00
SOILS LAB				
Moisture Content	2 Tests	\$15.00 per each	\$30.00	
Atterberg Limits (Dry Prep)	2 Tests	\$80.00 per each	\$160.00	
Wash #200	2 Tests	\$53.00 per each	\$106.00	
Sieve with Hydrometer	2 Tests	\$155.00 per each	\$310.00	
Modified Proctor Compaction	1 Tests	\$190.00 per each	\$190.00	
1 point CBR	1 Tests	\$160.00 per each	\$160.00	
Box Resistivity, ASTM	1 Tests	\$85.00 per each	\$85.00	
pH of Soil, Slurry Method	1 Tests	\$60.00 per each	\$60.00	
			SUBTOTAL LABORATORY	\$1,101.00
GEOTECHNICAL PROFESSIONAL SERVICES				
P6 Principal Professional (Grade VI)	1 Hours	\$185.00 per each	\$185.00	
P5 Senior Professional (Grade V)	12 Hours	\$160.00 per each	\$1,920.00	
P4 Project Professional (Grade IV)	Hours	\$140.00 per each	\$0.00	
P3 Project Professional (Grade III)	0 Hours	\$125.00 per each	\$0.00	
P2 Staff Professional (Grade II)	16 Hours	\$105.00 per each	\$1,680.00	
P1 Staff Professional (Grade I) - full time badged escort	25 Hours	\$95.00 per each	\$2,375.00	
S1 Administrative Support (S1)	3 Hours	\$60.00 per each	\$180.00	
T1 Technician (transport samples)	5 Hours	\$50.00 per each	\$250.00	
CAD	2 Hours	\$70.00 per each	\$140.00	
Mileage	300 Miles	\$0.60 per each	\$180.00	
			SUBTOTAL ENGINEERING	\$6,910.00
			TOTAL ESTIMATED COST	\$16,001.00

NO SPREADSHEET PROVIDED, TAKEN FROM PROPOSAL

Total Cost and Project Schedule

The anticipated budget for the project is estimated to be \$159,677 including \$144,935 labor and \$14,742 reimbursable expenses. Table 1 outlines the budget per task.

Table 1. Project Budget by Task

Task	Labor Hours	Budget		Total Budget
		Labor*	Expenses	
1. Kick-off Meeting	32	\$4,892	\$2,284	\$7,113
2. Data Collection	133	\$16,436	\$9,032	\$25,468
3. MAPS Document	38	\$6,823	\$1,142	\$7,965
4. Demand Generation	91	\$9,612	--	\$9,612
5. Requirements	412	\$43,727	\$1,142	\$44,869
6. Design Capacity Verification	456	\$48,228	\$1,142	\$49,370
7. As-Needed Services	135	\$15,280	--	\$15,280
Total Tasks 1-7	1,297	\$144,935	\$14,742	\$159,677

**Rounded to nearest dollar*

NO SPREADSHEET PROVIDED, TAKEN FROM PROPOSAL

<i>Price and Schedule</i>				
	Description	Square Footage	Price	Schedule
	3D Laser Scan Data Acquisition onsite including all Travel, Expenses, Ceiling Tile Removal/Replacement Labor, and Delivery of 3D Revit 2018 model to complete the scope in Figure 1 and 2.	102,736	\$99,660	Approximately 9-10 days onsite
	Model Delivery Timeframe			30-40 business days following completion of fieldwork

NO SPREADSHEET PROVIDED, TAKEN FROM PROPOSAL***Proposed Fees (Basic Scope of Services)***

→ Task 1. Conceptual Budget ROM Estimate	\$13,600.00
→ Task 2. Schematic Design Detailed Estimate	\$25,100.00
→ Task 3. On-Call Estimating	\$16,500.00
→ Task 4. Construction Manager Pricing Verification	\$14,800.00
→ Reimbursable Expenses	\$5,500.00
<i>Total Proposed Fees (Lump Sum)</i>	<u>\$75,500.00</u>



MEMORANDUM

TO: Members of the Airport Authority

FROM: Michael A. Reisman, A.A.E.
Deputy Executive Director

DATE: August 9, 2019

ITEM DESCRIPTION – New Business Item B

Ratify Approval of Right of Way Encroachment Agreement With NCDOT and Three Party Right of Way Encroachment Agreement with NCDOT and the City of Asheville Water Department

BACKGROUND

Design has been substantially completed on the Phase I Terminal Building Improvements project, which includes replacement of water and sewer infrastructure along Terminal Drive. The replacement water and sewer lines will create a new loop for each utility which will tie in with existing water and sewer main lines located in the NCDOT right of way along NC-280, at two locations along the frontage of the airport. At each of the two tie-in locations, the airport's contractor will be required to encroach into the NCDOT right of way in order to accomplish this work. When complete, the airport's privately owned water and sewer lines will remain permanently inside the right of way, as will a portion of the water system that will belong to the City of Asheville Water Department. The agreement between the Authority and NCDOT is for the sewer line encroachment, and the agreement between the Authority, NCDOT and the City of Asheville is for the water line encroachment. As part of the review and permitting process during design, time was of the essence in this matter. This required airport staff to execute the necessary documents in order to keep the project on schedule. In the absence of the Executive Director, the Deputy Executive Director, with authorization, therefore executed these documents on behalf of the Authority.

ISSUES

None.

New Business – Item B



ALTERNATIVES

None. Water and sewer main service must be connected to inside the NDCOT right of way in order to accomplish this project.

FISCAL IMPACT

None. There is no cost associated with this action.

RECOMMENDED ACTION

It is respectfully requested that the Airport Authority Board resolve to ratify approval for the Deputy Executive Director to execute the Right of Way Encroachment Agreement with NCDOT, and the Three Party Right of Way Encroachment Agreement with NCDOT and the City of Asheville Water Department.

DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY ENCROACHMENT AGREEMENT

PRIMARY AND SECONDARY HIGHWAYS

-AND-

Greater Asheville Regional Airport Authority
61 Terminal Drive, Suite 1, Fletcher, NC 28732

THIS AGREEMENT, made and entered into this the 19th day of June 2019 by and between the Department of Transportation, party of the first part; and Greater Asheville Regional Airport Authority party of the second part,

WITNESSETH

THAT WHEREAS, the party of the second part desires to encroach on the right of way of the public road designated as Route(s) New Airport Road (NC 280), located Approx. 2,400' from the intersection of I-26 and New Airport Road (NC 280) with the construction and/or erection of: Replacement of an old 8" DIP and connection to public manhole (MSD 49-23668).

WHEREAS, it is to the material advantage of the party of the second part to effect this encroachment, and the party of the first part in the exercise of authority conferred upon it by statute, is willing to permit the encroachment within the limits of the right of way as indicated, subject to the conditions of this agreement;

NOW, THEREFORE, IT IS AGREED that the party of the first part hereby grants to the party of the second part the right and privilege to make this encroachment as shown on attached plan sheet(s), specifications and special provisions which are made a part hereof upon the following conditions, to wit:

That the installation, operation, and maintenance of the above described facility will be accomplished in accordance with the party of the first part's latest POLICIES AND PROCEDURES FOR ACCOMMODATING UTILITIES ON HIGHWAY RIGHTS-OF-WAY, and such revisions and amendments thereto as may be in effect at the date of this agreement. Information as to these policies and procedures may be obtained from the Division Engineer or State Utility Agent of the party of the first part.

That the said party of the second part binds and obligates himself to install and maintain the encroaching facility in such safe and proper condition that it will not interfere with or endanger travel upon said highway, nor obstruct nor interfere with the proper maintenance thereof, to reimburse the party of the first part for the cost incurred for any repairs or maintenance to its roadways and structures necessary due to the installation and existence of the facilities of the party of the second part, and if at any time the party of the first part shall require the removal of or changes in the location of the said facilities, that the said party of the second part binds himself, his successors and assigns, to promptly remove or alter the said facilities, in order to conform to the said requirement, without any cost to the party of the first part.

That the party of the second part agrees to provide during construction and any subsequent maintenance proper signs, signal lights, flagmen and other warning devices for the protection of traffic in conformance with the latest Manual on Uniform Traffic Control Devices for Streets and Highways and Amendments or Supplements thereto. Information as to the above rules and regulations may be obtained from the Division Engineer of the party of the first part.

That the party of the second part hereby agrees to indemnify and save harmless the party of the first part from all damages and claims for damage that may arise by reason of the installation and maintenance of this encroachment.

That the party of the second part agrees to restore all areas disturbed during installation and maintenance to the satisfaction of the Division Engineer of the party of the first part. The party of the second part agrees to exercise every reasonable precaution during construction and maintenance to prevent eroding of soil; silting or pollution of rivers, streams, lakes, reservoirs, other water impoundments, ground surfaces or other property; or pollution of the air. There shall be compliance with applicable rules and regulations of the North Carolina Division of Environmental Management, North Carolina Sedimentation Control Commission, and with ordinances and regulations of various counties, municipalities and other official agencies relating to pollution prevention and control. When any installation or maintenance operation disturbs the ground surface and existing ground cover, the party of the second part agrees to remove and replace the sod or otherwise reestablish the grass cover to meet the satisfaction of the Division Engineer of the party of the first part.

That the party of the second part agrees to assume the actual cost of any inspection of the work considered to be necessary by the Division Engineer of the party of the first part.

That the party of the second part agrees to have available at the construction site, at all times during construction, a copy of this agreement showing evidence of approval by the party of the first part. The party of the first part reserves the right to stop all work unless evidence of approval can be shown.

Provided the work contained in this agreement is being performed on a completed highway open to traffic; the party of the second part agrees to give written notice to the Division Engineer of the party of the first part when all work contained herein has been completed. Unless specifically requested by the party of the first part, written notice of completion of work on highway projects under construction will not be required.

That in the case of noncompliance with the terms of this agreement by the party of the second part, the party of the first part reserves the right to stop all work until the facility has been brought into compliance or removed from the right of way at no cost to the party of the first part.

That it is agreed by both parties that this agreement shall become void if actual construction of the work contemplated herein is not begun within one (1) year from the date of authorization by the party of the first part unless written waiver is secured by the party of the second part from the party of the first part.

During the performance of this contract, the second party, for itself, its assignees and successors in interest (hereinafter referred to as the "contractor"), agrees as follows:

- a. Compliance with Regulations: The contractor shall comply with the Regulations relative to nondiscrimination in Federally-assisted programs of the U. S. Department of Transportation, Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.
- b. Nondiscrimination: The contractor, with regard to the work performed by it during the contract, shall not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials

and leases of equipment. The contractor shall not participate either directly or indirectly in the discrimination prohibited by Section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the Regulations.

- c. Solicitations for Subcontracts, including Procurements of Materials and Equipment: In all solicitations either by competitive bidding or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the contractor of the contractor's obligations under this contract and the Regulations relative to nondiscrimination on the grounds of race, color, or national origin.
- d. Information and Reports: The contractor shall provide all information and reports required by the Regulations, or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Department of Transportation or the Federal Highway Administration to be pertinent to ascertain compliance with such Regulations or directives. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish this information, the contractor shall so certify to the Department of Transportation, or the Federal Highway Administration as appropriate, and shall set forth what efforts it has made to obtain the information.
- e. Sanctions for Noncompliance: In the event of the contractor's noncompliance with the nondiscrimination provisions of this contract, the Department of Transportation shall impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to,
 - (1) withholding of payments to the contractor under the contract until the contractor complies, and/or
 - (2) cancellation, termination or suspension of the contract, in whole or in part.
- f. Incorporation of Provisions: The contractor shall include the provisions of paragraphs "a" through "f" in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto. The contractor shall take such action with respect to any subcontract or procurement as the Department of Transportation or the Federal Highway Administration may direct as a means of enforcing such provisions including sanctions for noncompliance: Provided, however, that, in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or supplier as a result of such direction, the contractor may request the Department of Transportation to enter into such litigation to protect the interests of the State, and, in addition, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

R/W (161) : Party of the Second Part certifies that this agreement is true and accurate copy of the form R/W (161) incorporating all revisions to date.


IN WITNESS WHEREOF, each of the parties to this agreement has caused the same to be executed the day and year first above written.

DEPARTMENT OF TRANSPORTATION

BY: _____

DIVISION ENGINEER

ATTEST OR WITNESS:





Lew Bleiweis, AAE, Executive Director

Greater Asheville Regional Airport Authority
Second Party

INSTRUCTIONS

When the applicant is a corporation or a municipality, this agreement must have the corporate seal and be attested by the corporation secretary or by the empowered city official, unless a waiver of corporate seal and attestation by the secretary or by the empowered City official is on file in the Raleigh office of the Manager of Right of Way. In the space provided in this agreement for execution, the name of the corporation or municipality shall be typed above the name, and title of all persons signing the agreement should be typed directly below their signature.

When the applicant is not a corporation, then his signature must be witnessed by one person. The address should be included in this agreement and the names of all persons signing the agreement should be typed directly below their signature.

This agreement must be accompanied, in the form of an attachment, by plans or drawings showing the following applicable information:

1. All roadways and ramps.
2. Right of way lines and where applicable, the control of access lines.
3. Location of the existing and/or proposed encroachment.
4. Length, size and type of encroachment.
5. Method of installation.
6. Dimensions showing the distance from the encroachment to edge of pavement, shoulders, etc.
7. Location by highway survey station number. If station number cannot be obtained, location should be shown by distance from some identifiable point, such as a bridge, road, intersection, etc. (To assist in preparation of the encroachment plan, the Department's roadway plans may be seen at the various Highway Division Offices, or at the Raleigh office.)
8. Drainage structures or bridges if affected by encroachment (show vertical and horizontal dimensions from encroachment to nearest part of structure).
9. Method of attachment to drainage structures or bridges.
10. Manhole design.
11. On underground utilities, the depth of bury under all traveled lanes, shoulders, ditches, sidewalks, etc.
12. Length, size and type of encasement where required.
13. On underground crossings, notation as to method of crossing - boring and jacking, open cut, etc.
14. Location of vents.

GENERAL REQUIREMENTS

1. Any attachment to a bridge or other drainage structure must be approved by the Head of Structure Design in Raleigh prior to submission of encroachment agreement to the Division Engineer.
2. All crossings should be as near as possible normal to the centerline of the highway.
3. Minimum vertical clearances of overhead wires and cables above all roadways must conform to clearances set out in the National Electric Safety Code.
4. Encasements shall extend from ditch line to ditch line in cut sections and 5' beyond toe of slopes in fill sections.
5. All vents should be extended to the right of way line or as otherwise required by the Department.
6. All pipe encasements as to material and strength shall meet the standards and specifications of the Department.
7. Any special provisions or specifications as to the performance of the work or the method of construction that may be required by the Department must be shown on a separate sheet attached to encroachment agreement provided that such information cannot be shown on plans or drawings.
8. The Department's Division Engineer should be given notice by the applicant prior to actual starting of installation included in this agreement.

DEPARTMENT OF TRANSPORTATION

-AND-
Greater Asheville Regional Airport Authority

61 Terminal Drive, Suite 1, Fletcher, NC 28732

-AND-

City of Asheville Water Department

70 Court Plaza, Asheville, NC 28801

THREE PARTY RIGHT OF WAY
ENCROACHMENT AGREEMENT ON
PRIMARY AND SECONDARY SYSTEM

THIS AGREEMENT, made and entered into this the _____ day of _____, 20__ 19__ , by and between the Department of Transportation, party of the first part; and Greater Asheville Regional Airport Authority party of the second part; and City of Asheville Water Department party of the third part,

W I T N E S S E T H

THAT WHEREAS, the party of the second part desires to encroach on the right of way of the public road designated as Route(s) New Airport Road (NC 280) , located Approx. 1,200' from the intersection of I-26 and New Airport Road (NC 280) and a second connection also along New Airport Road approx. 2,400' from the intersection of I-26 And New Airport Road (NC 280)

with the construction and/or erection of: 2 proposed 8" DIP water line connections to an existing 24" water main and two master meter vaults.

WHEREAS, it is to the material advantage of the party of the second part to effect this encroachment, and the party of the first part in the exercise of authority conferred upon it by statute, is willing to permit the encroachment within the limits of the right of way as indicated, subject to the conditions of this agreement;

NOW, THEREFORE, IT IS AGREED that the party of the first part hereby grants to the party of the second part the right and privilege to make this encroachment as shown on attached plan sheet(s), specifications and special provisions which are made a part hereof upon the following conditions, to wit:

That the installation, operation, and maintenance of the above described facility will be accomplished in accordance with the party of the first part's latest POLICIES AND PROCEDURES FOR ACCOMMODATING UTILITIES ON HIGHWAY RIGHTS-OF-WAY, and such revisions and amendments thereto as may be in effect at the date of this agreement. Information as to these policies and procedures may be obtained from the Division Engineer or State Utility Agent of the party of the first part.

That the said party of the second part binds and obligates himself to install and maintain the encroaching facility in such safe and proper condition that it will not interfere with or endanger travel upon said highway, nor obstruct nor interfere with the proper maintenance thereof, to reimburse the party of the first part for the cost incurred for any repairs or maintenance to its roadways and structures necessary due to installation and existence of the facilities of the party of the second part, and if at any time the party of the first part shall require the removal of or changes in the location of the said facilities, that the said party of the second part binds himself, his successors and assigns, to promptly remove or alter the said facilities, in order to conform to the said requirement, without any cost to the party of the first part.

That the party of the second part agrees to provide during construction and any subsequent maintenance proper signs, signal lights, flagmen and other warning devices for the protection of traffic in conformance with the latest Manual on Uniform Traffic Control Devices for Streets and Highways and Amendments or Supplements thereto. Information as to the above rules and regulations may be obtained from the Division Engineer of the party of the first.

That the party of the second part hereby agrees to indemnify and save harmless the party of the first part from all damages and claims for damage that may arise by reason of the installation and maintenance of this encroachment.

That the party of the second part agrees to restore all areas disturbed during installation and maintenance to the satisfaction of the Division Engineer of the party of the first part. The party of the second part agrees to exercise every reasonable precaution during construction and maintenance to prevent eroding of soil; silting or pollution of rivers, streams, lakes, reservoirs, other water impoundments, ground surfaces or other property; or pollution of the air. There shall be compliance with applicable rules and regulations of the North Carolina Division of Environmental Management, North Carolina Sedimentation Control Commission, and with ordinances and regulations of various counties, municipalities and other official agencies relating to pollution prevention and control. When any installation or maintenance operation disturbs the ground surface and existing ground cover, the party of the second part agrees to remove and replace the sod or otherwise reestablish the grass cover to meet the satisfaction of the Division Engineer of the party of the first part.

That the party of the second part agrees to assume the actual cost of any inspection of the work considered to be necessary by the Division Engineer of the party of the first part.

That the party of the second part agrees to have available at the construction site, at all times during construction, a copy of this agreement showing evidence of approval by the party of the first part. The party of the first part reserves the right to stop all work unless evidence of approval can be shown.

Provided the work contained in this agreement is being performed on a completed highway open to traffic; the party of the second part agrees to give written notice to the Division Engineer of the party of the first part when all work contained herein has been completed. Unless specifically requested by the party of the first part, written notice of completion of work on highway projects under construction will not be required.

That in the case of noncompliance with the terms of this agreement by the party of the second part, the party of the first part reserves the right to stop all work until the facility has been brought into compliance or removed from the right of way at no cost to the party of the first part.

That it is agreed by both parties that this agreement shall become void if actual construction of the work contemplated herein is not begun within one (1) year from the date of authorization by the party of the first part unless written waiver is secured by the party of the second part from the party of the first part.

During the performance of this contract, the second party, for itself, its assignees and successors in interest (hereinafter referred to as the "contractor"), agrees as follows:


- a. Compliance with Regulations: The contractor shall comply with the Regulations relative to nondiscrimination in Federally-assisted programs of the U. S. Department of Transportation, Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.
- b. Nondiscrimination: The contractor, with regard to the work performed by it during the contract, shall not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor shall not participate either directly or indirectly in the discrimination prohibited by Section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the Regulations.
- c. Solicitations for Subcontracts, including Procurements of Materials and Equipment: In all solicitations either by competitive bidding or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the contractor of the contractor's obligations under this contract and the Regulations relative to nondiscrimination on the grounds of race, color, or national origin.
- d. Information and Reports: The contractor shall provide all information and reports required by the Regulations, or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Department of Transportation or the Federal Highway Administration to be pertinent to ascertain compliance with such Regulations or directives. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish this information, the contractor shall so certify to the Department of Transportation, or the Federal Highway Administration as appropriate, and shall set forth what efforts it has made to obtain the information.
- e. Sanctions for Noncompliance: In the event of the contractor's noncompliance with the nondiscrimination provisions of this contract, the Department of Transportation shall impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to,
 - (1) withholding of payments to the contractor under the contract until the contractor complies, and/or
 - (2) cancellation, termination or suspension of the contract, in whole or in part.
- f. Incorporation of Provisions: The contractor shall include the provisions of paragraphs "a" through "f" in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto. The contractor shall take such action with respect to any subcontract or procurement as the Department of Transportation or the Federal Highway Administration may direct as a means of enforcing such provisions including sanctions for noncompliance: Provided, however, that, in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or supplier as a result of such direction, the contractor may request the Department of Transportation to enter into such litigation to protect the interests of the State, and, in addition, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

That when title to the subject that constitutes the aforesaid encroachment passes from the party of the second part and vests in the party of the third part, the party of the third part agrees to assume all responsibilities and rights and to perform all obligations as agreed to herein by the party of the second part.

R/W (166) : Party of the Second Part certifies that this agreement is true and accurate copy of the form R/W (166) incorporating all revisions to date.

IN WITNESS WHEREOF, each of the parties to this agreement has caused the same to be executed the day and year first above written.

WITNESS:



WITNESS:

DEPARTMENT OF TRANSPORTATION

BY: _____
DIVISION ENGINEER



Lew Bleiweis, A.A.E., Executive Director

Greater Asheville Regional Airport Authority

61 Terminal Drive, Suite 1

Fletcher, NC 28732

Second Party

City of Asheville Water Department

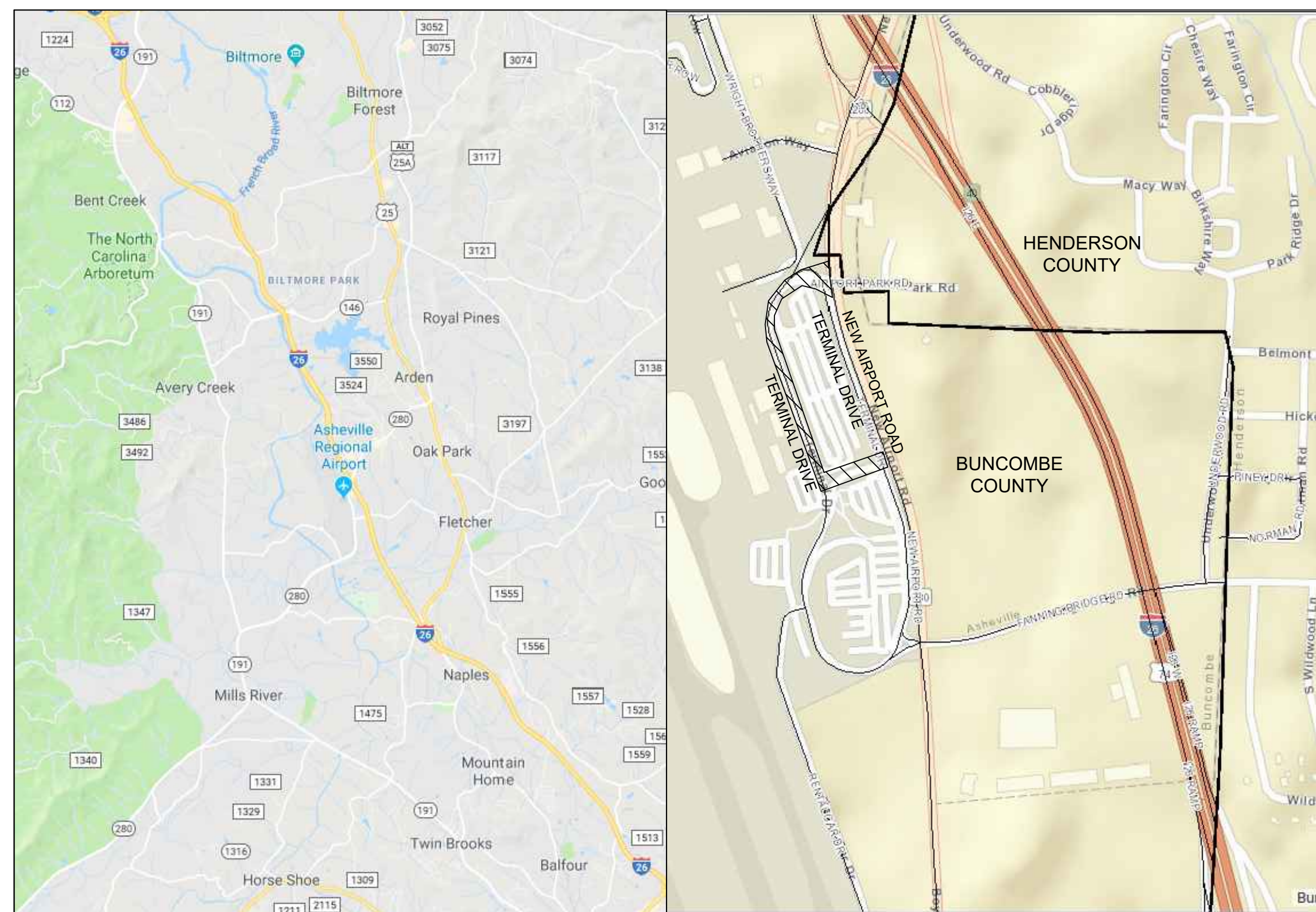
70 Court Plaza

Asheville, NC 28801

Third Party

ASHEVILLE REGIONAL AIRPORT TERMINAL BUILDING - PH. I UTILITY MODERNIZATION

ASHEVILLE, BUNCOMBE COUNTY, NORTH CAROLINA



VICINITY MAP
NOT TO SCALE

GENERAL NOTES

1. THE CONTRACTOR SHALL COMPLETELY INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES BEFORE BEGINNING SITE GRADING AND SHALL COMPLY WITH BUNCOMBE COUNTY / STATE OF NORTH CAROLINA NPDES PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY.
2. THE CONTRACTOR SHALL CONDUCT ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND ALL LOCAL, STATE, AND FEDERAL RULES AND REGULATIONS.
3. ALL CONSTRUCTION SHALL COMPLY WITH THE APPLICABLE BUILDING CODES FOR EACH DISCIPLINE AS REGULATED BY BUNCOMBE COUNTY AND THE STATE OF NORTH CAROLINA.

UTILITY SUPPLIERS

ELECTRIC -
DUKE ENERGY
555-A BREVARD RD.
ASHEVILLE, NC 28806
PHONE: (828)252-7731

SEWER -
MSD BUNCOMBE COUNTY
2028 RIVERSIDE DR.
WOODFIN, NC 28804
PHONE: (828)254-9646

WATER -
ASHEVILLE WATER
70 COURT PLAZA
ASHEVILLE, NC 28801
PHONE: (828)251-1122

TELEPHONE -
AT&T

GAS -
PSNC ENERGY
15 OVERLAND BLVD
ASHEVILLE, NC 28806
(877)776-2427

DRAWING INDEX

SHEET NO.	SHEET NAME
C0.0	TITLE SHEET & DRAWING INDEX
C-01	KEY MAP AND GENERAL NOTES
C-02	WATER PLAN AND PROFILE
C-03	SANITARY SEWER AND WATER PLAN
C-04	SANITARY SEWER AND WATER PROFILES
C-05	SANITARY SEWER AND WATER PLAN
C-06	SANITARY SEWER AND WATER PROFILES
C-07	SANITARY SEWER AND WATER PLAN
C-08	SANITARY SEWER AND WATER PROFILES
C-09	SANITARY SEWER DETAILS
C-10	WATER DETAILS

LEGEND

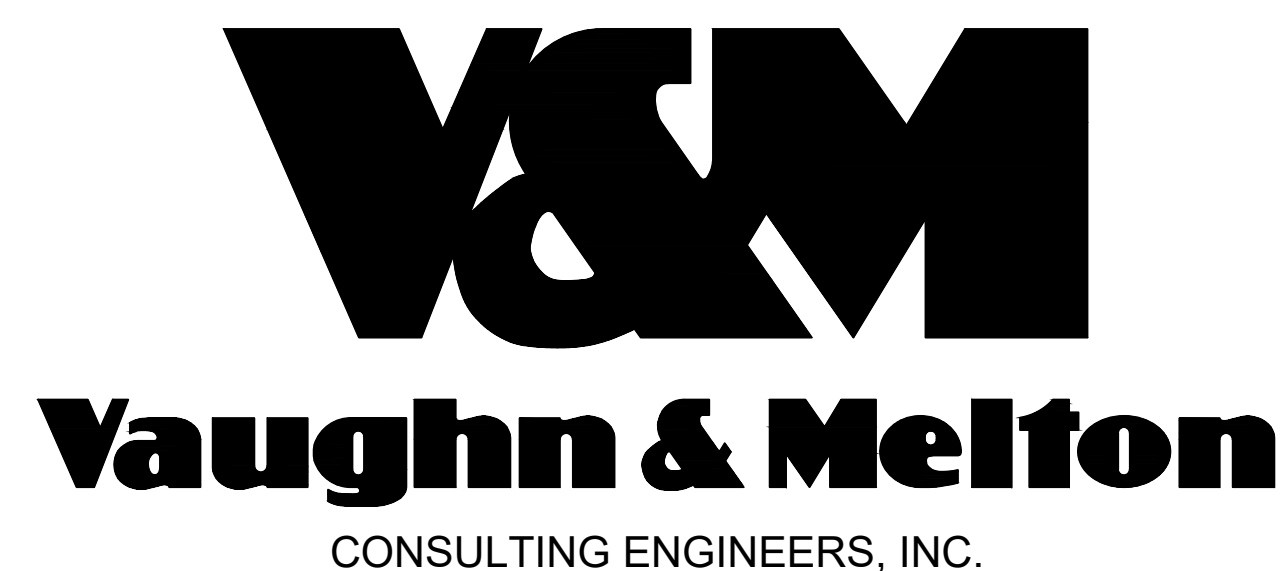
	DRAINAGE STRUCTURE
	STORM MANHOLE
	ELECTRIC BOX
	ELECTRIC MANHOLE
	TELEPHONE MANHOLE
	HAND HOLE
	BOLLARD
	SEWER MANHOLE
	UTILITY POLE
	SEWER CLEANOUT
	WATER METER
	WATER VALVE
	FIRE HYDRANT
	WATER BLOW OFF HYDRANT
	RIGHT OF WAY MONUMENT SIGN
	SUBJECT PROPERTY LINE
	TE LINE ONLY
	ADJOINER PROPERTY LINE
	NCDOT RIGHT OF WAY
	MARGIN OF NEW DRIVE EASEMENT
	FENCE
	TYPICAL BUILDING SETBACK LINE
	OVERHEAD UTILITY LINE
	SEWER LINE
	WATER LINE
	UNDERGROUND FIBEROPTIC
	CURB
	UNDERGROUND ELECTRIC
	UNDERGROUND GAS
	UNDERGROUND TELEPHONE
	PAINT STRIPE
	HANDRAIL

GENERAL INFORMATION

- RIVER BASIN - FRENCH BROAD
- RECEIVING STREAM - FRENCH BROAD
- DISTURBED AREA - 0.94 AC.



BEFORE YOU DIG,
CALL 811
N.C. ONE-CALL
CENTER
IT'S THE LAW!



Firm License # F-1088
1318-F Patton Ave.
Asheville, NC, 28806
Asheville, NC
828-253-2796
828-253-4864 (Fax #)

NORTH CAROLINA
828-253-2796

SOUTH CAROLINA
864-574-4775

KENTUCKY
606-248-6600

TENNESSEE
865-546-5800

GEORGIA
770-627-3590

www.vaughnmelton.com

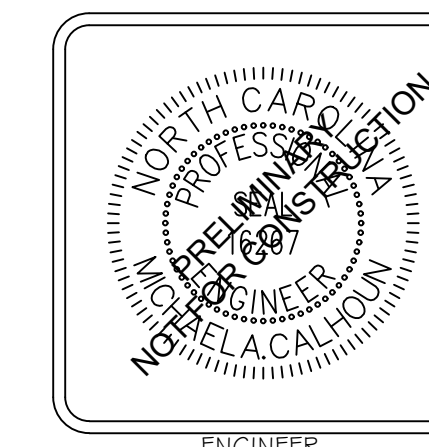
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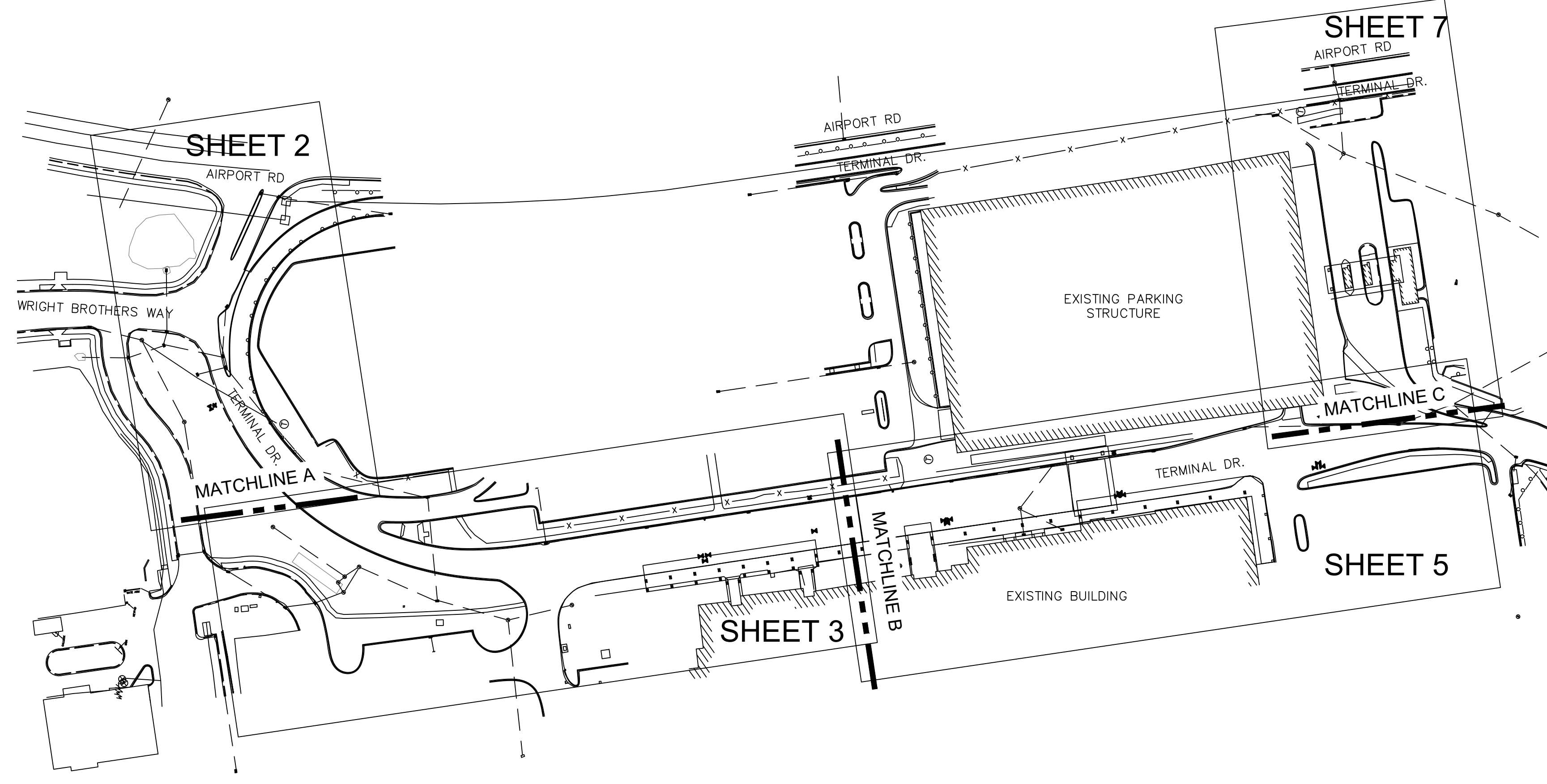
NORTH AND SOUTH CAROLINA OFFICES:
ASHEVILLE, BOONE, CHARLOTTE, COLUMBIA, NEW
BERN, RALEIGH, CHARLESTON, SPARTANBURG,
AND SYLVA

OWNER CONTACT:
MICHAEL REISMAN (828) 654-3253

ENGINEER CONTACT:
MIKE CALHOUN P.E. : (828) 253-2796

GENERAL CONTRACTOR CONTACT: TBD





KEY MAP
NOT TO SCALE

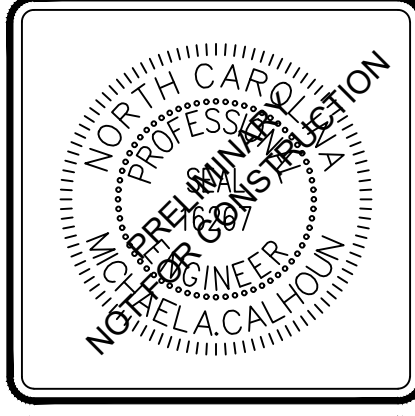
WATER NOTES:

1. THE WATER LINE EXTENSION WORK MUST BE PERFORMED BY A LICENSED NORTH CAROLINA UTILITY CONTRACTOR.
2. CONTRACTOR SHALL PROTECT ALL UTILITIES AND OTHER IMPROVEMENTS SHOWN OR NOT SHOWN ON THESE PLANS. CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR REPAIRS OF UTILITIES AND IMPROVEMENTS DAMAGED DURING CONSTRUCTION AND SHALL MAINTAIN SUFFICIENT PROTECTION TO ALL UTILITIES REQUIRED TO PROTECT THEM FROM DAMAGE AND TO PROTECT THE PUBLIC DURING CONSTRUCTION. THE LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES WITH NORTH CAROLINA ONE-CALL PRIOR TO CONSTRUCTION-811.
3. CONTRACTOR SHALL NOTIFY THE AIRPORT 48 HOURS IN ADVANCE IN ORDER TO LOCATE ANY PRIVATE UTILITIES AND TO COORDINATE ANY LOCATES INSIDE THE SECURITY FENCE BY CALLING THE AIRPORT COMMUNICATIONS CENTER AT (828) 684-4577.
4. UTILITIES ARE TO BE LOCATED FAR ENOUGH IN ADVANCE TO ALLOW REDESIGN BY ENGINEER IF NECESSARY.
5. CONTRACTOR SHALL TAKE NECESSARY STEPS TO KEEP THE UTILITY IN SERVICE AT ALL TIMES DURING CONSTRUCTION.
6. THE WATER LINE COVER IS TO BE 3 FEET DEEP (MINIMUM), TO TOP OF PIPE, EXCEPT AT UTILITY CROSSINGS WHERE THERE ARE CONFLICTS. IN THIS CASE WATER LINE COVER IS NOT TO EXCEED 5 FEET (MAX.) OR AS APPROVED BY THE CITY WATER INSPECTOR.
7. CONTRACTOR SHALL VERIFY EXISTING WATER LINE LOCATION FOR CONNECTION.
8. THE CONTRACTOR SHALL COMPLY WITH THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES EROSION AND SEDIMENTATION CONTROL MEASURES.
9. INSTALLATIONS OF THE WATER LINE AND SUPPORTING APPURTENANCES SHALL BE IN ACCORDANCE WITH TITLE 15A SUBCHAPTER 18C OF THE NORTH CAROLINA ADMINISTRATIVE CODE AND WITH THE TECHNICAL SPECIFICATIONS FOR THIS PROJECT. APPROVAL BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES OR CITY OF ASHEVILLE MUST BE OBTAINED PRIOR TO CONSTRUCTION.
10. CITY OWNERSHIP AND MAINTENANCE OF THE WATER LINES WILL BE WITHIN DESIGNATED WATER EASEMENT AREAS.
11. ALL WATER LINES, HYDRANTS, VALVES, FDC & APPURTENANCES ARE TO BE PER CITY OF ASHEVILLE SPECIFICATIONS, STANDARDS AND DETAILS. MATERIALS TO BE APPROVED BY CITY AND ENGINEER. ALL BRASS FITTINGS ARE TO BE LEAD FREE.
12. ALL WATER LINE JOINTS AND FITTINGS USE CITY OF ASHEVILLE RESTRAINT DEVICE PER STANDARDS, SPECIFICATIONS AND DETAILS IN LIEU OF CONCRETE DEADMAN AND RODDING. ALL FITTINGS TO BE RESTRAINED.
13. CONTRACTOR AND OWNER: PER SECTION .0300, SUBCHAPTER 18 OF THE NCAC, AN "AUTHORIZATION TO CONSTRUCT" MUST BE OBTAINED PRIOR TO ANY CONSTRUCTION TAKING PLACE.
14. RELATION OF WATER MAINS TO OTHER UTILITIES:
SANITARY SEWER: IF 10 FEET OF HORIZONTAL SEPARATION OR 18-INCHES VERTICAL SEPARATION BETWEEN WATER AND SEWER, OR SEWER IS OVER WATER, OR 24-INCHES OF SEPARATION BETWEEN SANITARY SEWER AND STORM SEWER, OR 3 FEET OF COVER CANNOT BE MAINTAINED, THEN FERROUS (DIP) PIPE MUST BE USED FROM A POINT 10 FEET PRIOR TO AND EXTEND 10' PAST THE CROSSING. WATER MAINS SHOULD ONLY CROSS SANITARY SEWER MAINS AT AN APPROXIMATE 90-DEGREE ANGLE.
STORM DRAINAGE: WATER MAINS SHALL HAVE A MINIMUM VERTICAL SEPARATION OF 12 INCHES WITH ALL STORM DRAINAGE WHEN CROSSING WATER MAINS AND STORM DRAINAGE MAINS SHALL HAVE A MINIMUM VERTICAL SEPARATION OF 12 INCHES WHEN HORIZONTAL SEPARATION IS LESS THAN 3 FEET UNLESS OTHERWISE APPROVED BY THE CITY OF ENGINEER.
NATURAL GAS MAINS, CABLES AND OTHER UTILITIES: OTHER UTILITIES SHALL HAVE A MINIMUM HORIZONTAL CLEARANCE OF 3 FEET AND VERTICAL CLEARANCE OF 12 INCHES, TO PERMIT PROPER MAINTENANCE OF THE WATER MAIN.
15. TESTING, INSPECTION AND DISINFECTION OF WATER MAINS ARE TO COMPLY WITH CITY OF ASHEVILLE MANUAL SECTION W2.
16. LOCATION OF FIRE HYDRANTS, AIR RELEASE VALVES, WATER METERS, PRV STATION, VALVES, ROAD CROSSINGS AND OTHER APPURTENANCES ARE APPROXIMATE. LOCATION IS TO BE FIELD VERIFIED BY CITY AND ENGINEER.
17. ALL WATER VALVES TO BE INSTALLED WITHIN TWO (2) FEET OF AN INTERSECTION OR FIRE HYDRANT TEE.
18. ALL WATER LINES ARE TO BE INSTALLED IN ACCORDANCE WITH THE CITY OF ASHEVILLE WATER RESOURCES DESIGN & CONSTRUCTION MANUAL.
19. ALL FIRE HYDRANT, VAULTS, BACKFLOWS AND WATER METERS ARE TO BE LOCATED IN RELATIVELY FLAT AREAS.
20. UNDERGROUND GAS, TELEPHONE AND POWER LINES ARE ALREADY INSTALLED. THE WATER LINE SHALL BE INSTALLED SUCH THAT REQUIRED CLEARANCES ARE MAINTAINED.

CONSTRUCTION NOTES:

1. CONTRACTOR SHALL MAINTAIN TWO LANES OF TRAFFIC AT ALL TIMES BETWEEN THE HOURS OF 4:30AM AND 12:30 AM (MIDNIGHT). ANY PORTION WHERE TWO LANES CANNOT BE MAINTAINED, CONTRACTOR SHALL PERFORM WORK DURING THE HOURS OF 12:30AM AND 4:30AM.
2. CONTRACTOR SHALL MAINTAIN ACCESS AT ALL EXISTING CROSSWALKS BETWEEN THE EAST AND THE WEST OF THE TERMINAL BUILDING.
3. CONTRACTOR SHALL PROVIDE AS PART OF THIS CONSTRUCTION A PUBLIC UNIFORMED TRAFFIC CONTROL OFFICER FOR TRAFFIC CONTROL. THE OFFICER SHALL BE ON DUTY AT ALL TIMES WHEN TWO OR LESS LANES OF TRAFFIC ARE AVAILABLE. THE TRAFFIC CONTROL OFFICER SHALL BE TRAINED AND APPROVED IN ADVANCE BY OWNER REPRESENTATIVE.
4. CONTRACTOR SHALL PROVIDE A TEMPORARY SURFACE ON ALL BACKFILLED OPEN TRENCHES THAT WILL PREVENT UNDESIRABLE CONSTRUCTION DEBRIS OR SEDIMENT. THE PROJECT LIMITS SHALL BE CLEANED AND FREE OF SUCH MATERIAL DURING THE DURATION OF CONSTRUCTION.
5. CONTRACTOR SHALL CONSTRUCT WATER LINE AT A LOCATION TO MINIMIZE AMOUNT OF DISTURBED LANDSCAPING. CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY DISTURBED LANDSCAPING IN KIND TO EXISTING.

NO.	DATE	REVISIONS DESCRIPTION



ASHEVILLE REGIONAL AIRPORT
TERMINAL BUILDING - PH. I UTILITY MODERNIZATION
 ASHEVILLE, BUNCOMBE COUNTY, NORTH CAROLINA

V&M
Vaughan & Melton
 Firm License # F-1086
 1318-F Patton Ave
 Asheville, NC 28806
 828-525-2796

- Boone, NC 828-355-9933
- Charlotte, NC 704-357-0488
- Knoxville, TN 865-546-5800
- Middlesboro, KY 606-248-6600
- N. Charleston, SC 843-560-0085
- Spartanburg, SC 864-574-4775

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DRAWN:	TAR
CHECKED:	MAC
JOB NO.:	31950-01
SCALE:	1"=20'
DATE:	APRIL 29, 2019
FILE NAME:	31950-01 Design.dwg
DRAWING TITLE:	KEY MAP AND GENERAL NOTES

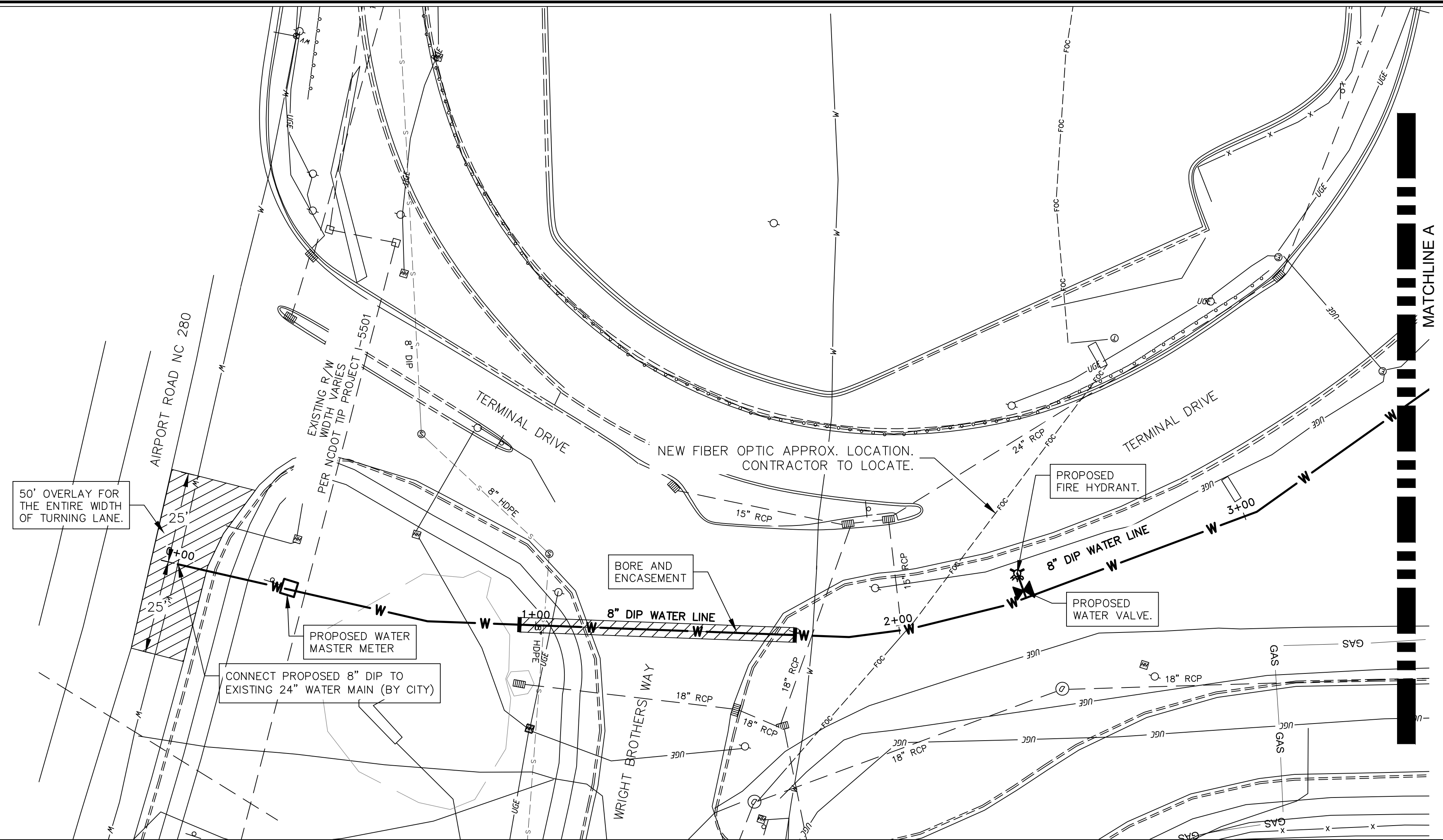
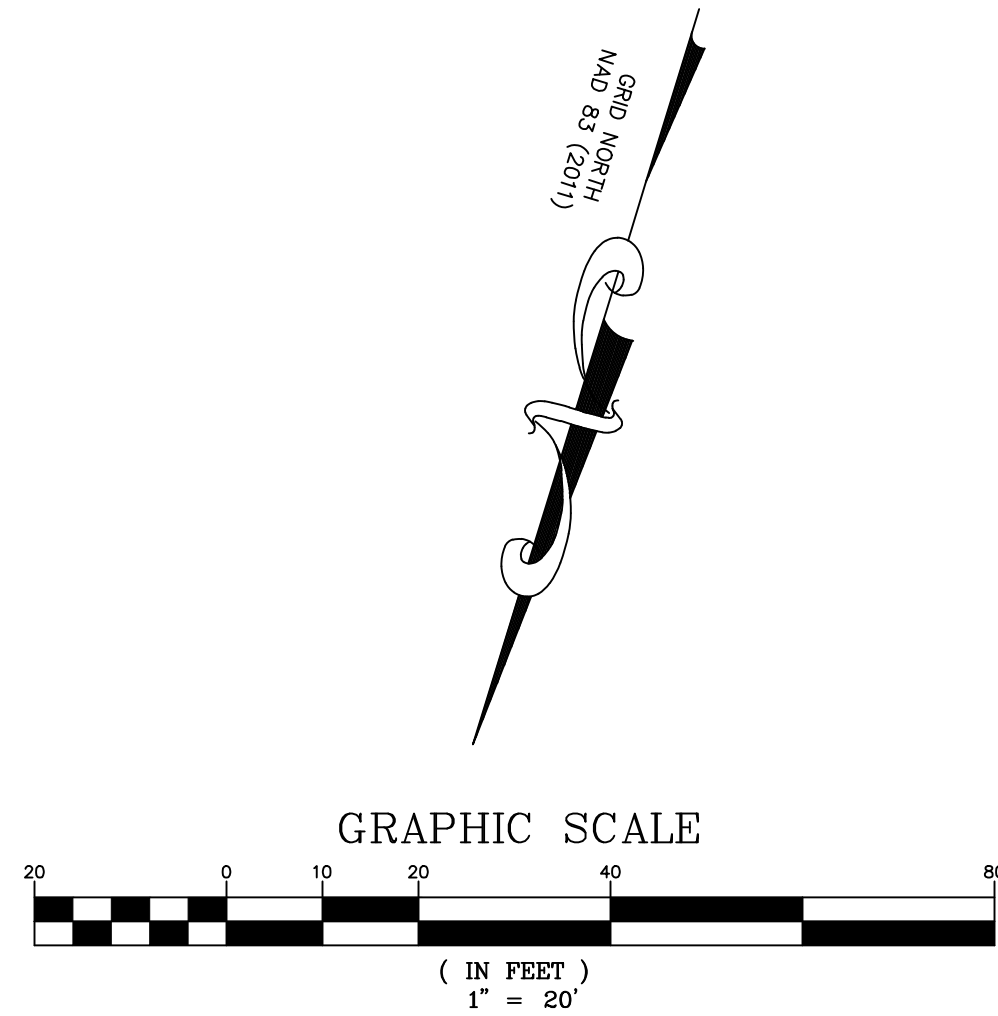
DRAWING NO:
C-01

PRELIMINARY; NOT FOR CONSTRUCTION

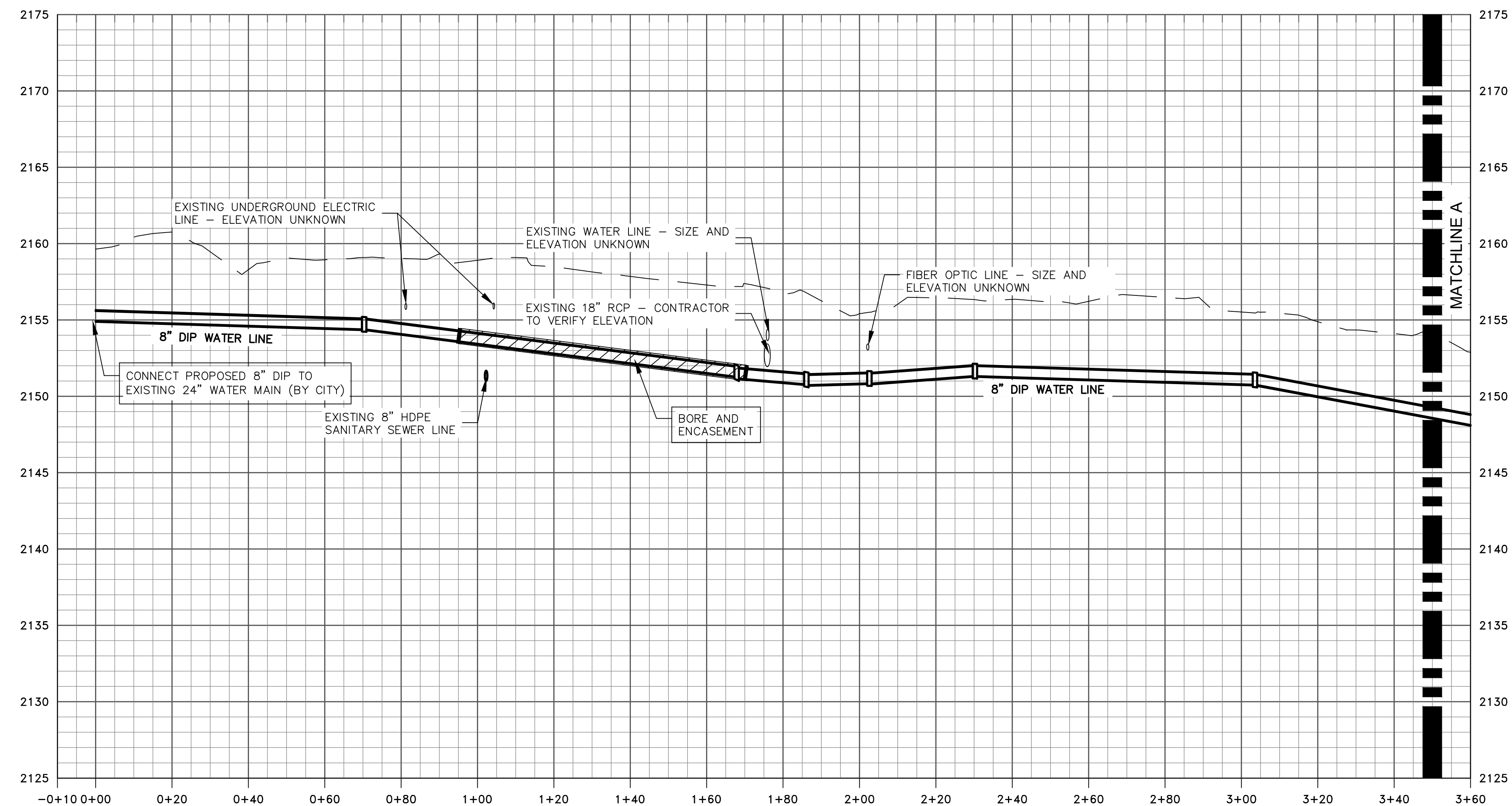
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CONTRACTOR SHALL CONSTRUCT WATER LINE AT A LOCATION TO MINIMIZE AMOUNT OF DISTURBED LANDSCAPING. CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY DISTURBED LANDSCAPING IN KIND TO EXISTING.

CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN TO BE APPROVED BY ENGINEER. LANE CLOSURE SHALL BE PERFORMED BY CERTIFIED TRAFFIC CONTROL CONTRACTOR.

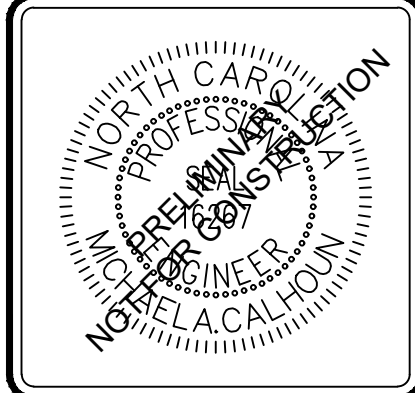


PROPOSED WATER LINE
HORIZONTAL SCALE 1"=20'
VERTICAL SCALE 1"=5'



PRELIMINARY; NOT FOR CONSTRUCTION

NO.	DATE	DESCRIPTION



ASHEVILLE REGIONAL AIRPORT
TERMINAL BUILDING - PH. I UTILITY MODERNIZATION
ASHEVILLE, BUNCOMBE COUNTY, NORTH CAROLINA



Firm License # F-1088
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828-525-2796

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- Knoxville, TN 865-546-5800
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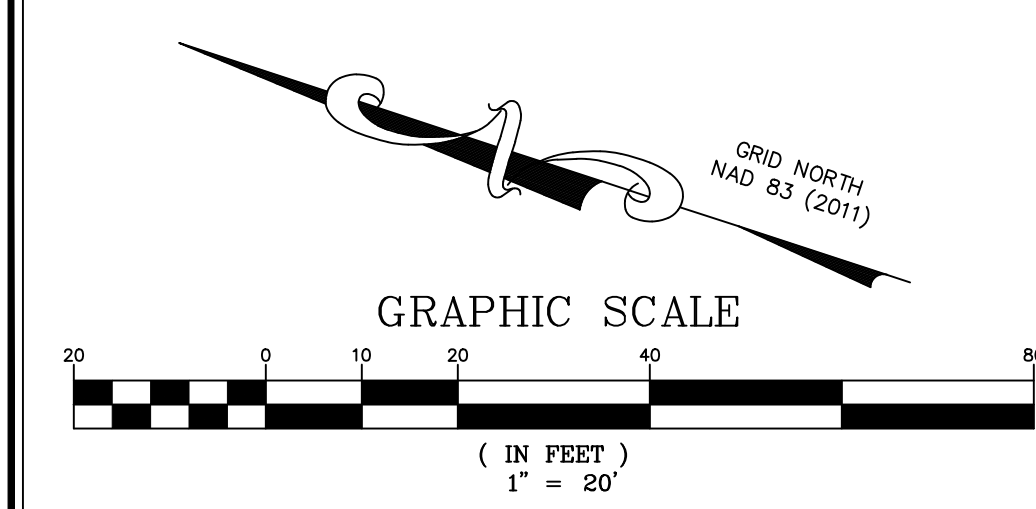
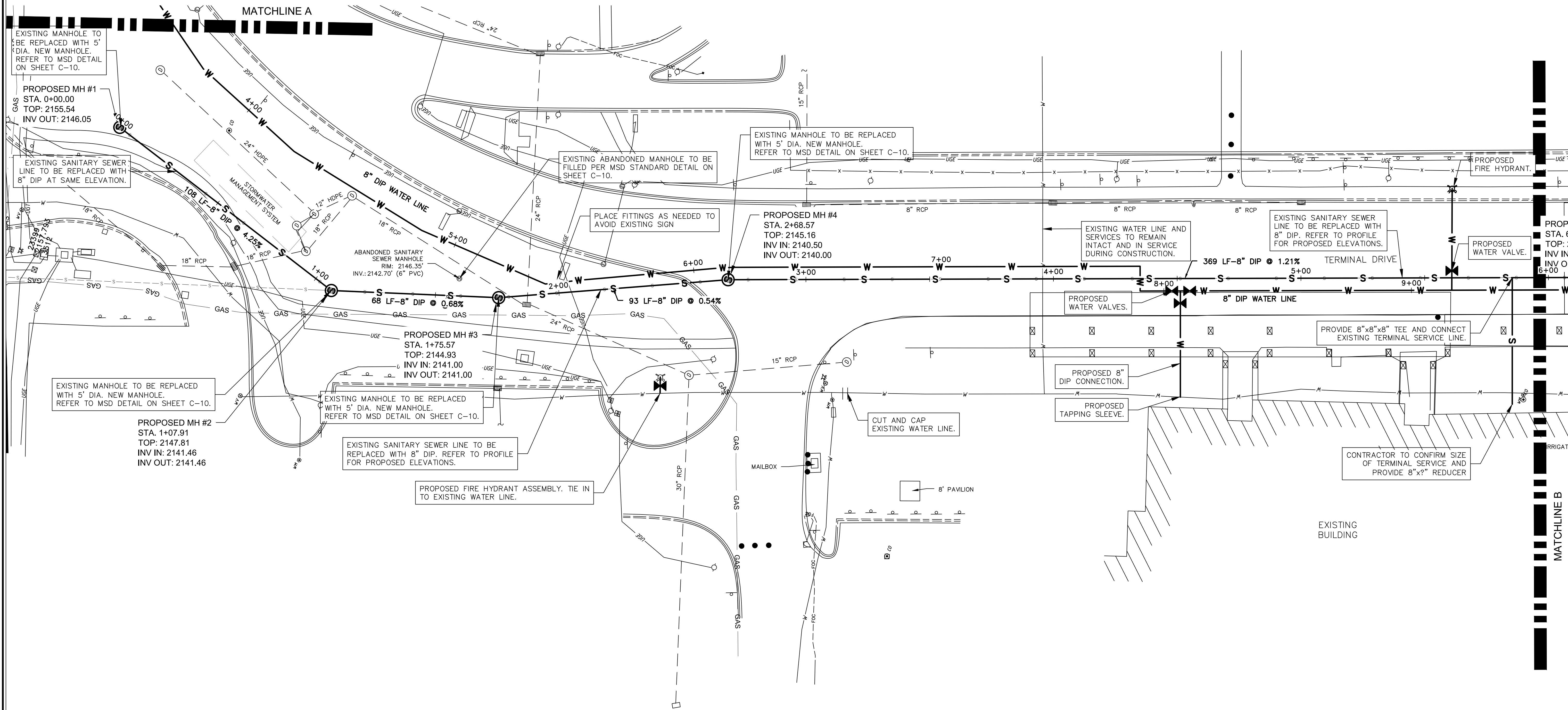
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WATER PLAN AND PROFILE

DRAWING NO:
C-02

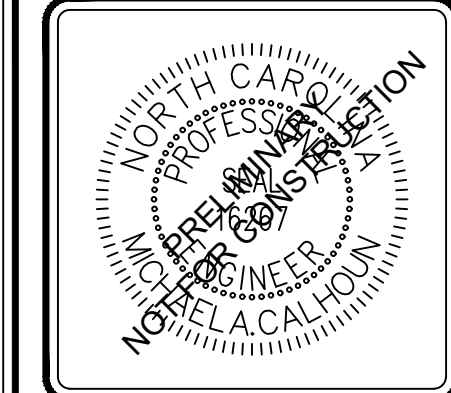
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CONTRACTOR SHALL CONSTRUCT WATER LINE AT A LOCATION TO MINIMIZE AMOUNT OF DISTURBED LANDSCAPING. CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY DISTURBED LANDSCAPING IN KIND TO EXISTING.



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NO.	DATE	DESCRIPTION



ASHEVILLE REGIONAL AIRPORT
TERMINAL BUILDING - PH. I UTILITY MODERNIZATION
 ASHEVILLE, BUNCOMBE COUNTY, NORTH CAROLINA

V&M
Vaughan & Melton
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SCALE:	1"=20'
DATE:	APRIL 29, 2019
FILE NAME:	31950-01 Design.dwg
DRAWING TITLE:	SANITARY SEWER AND WATER PLAN

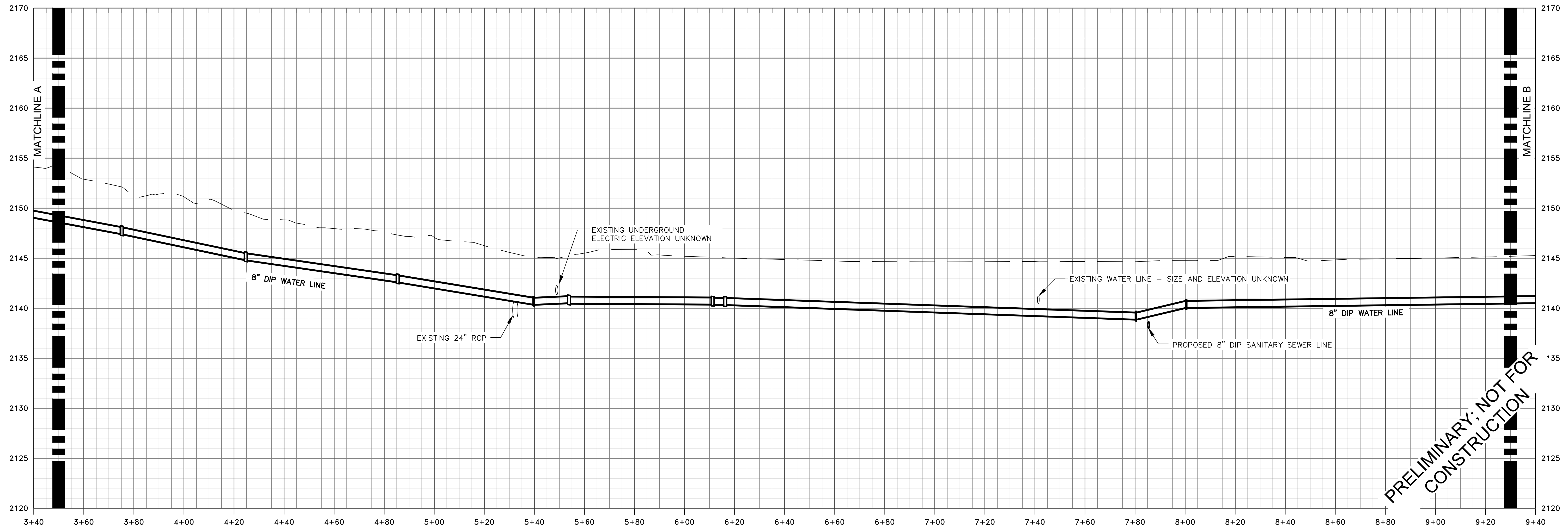
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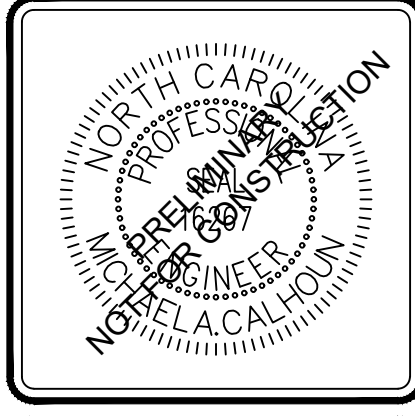
PROPOSED SANITARY SEWER
HORIZONTAL SCALE 1"=20'
VERTICAL SCALE 1"=5'



PROPOSED WATER LINE
HORIZONTAL SCALE 1"=20'
VERTICAL SCALE 1"=5'



NO.	DATE	REVISIONS DESCRIPTION



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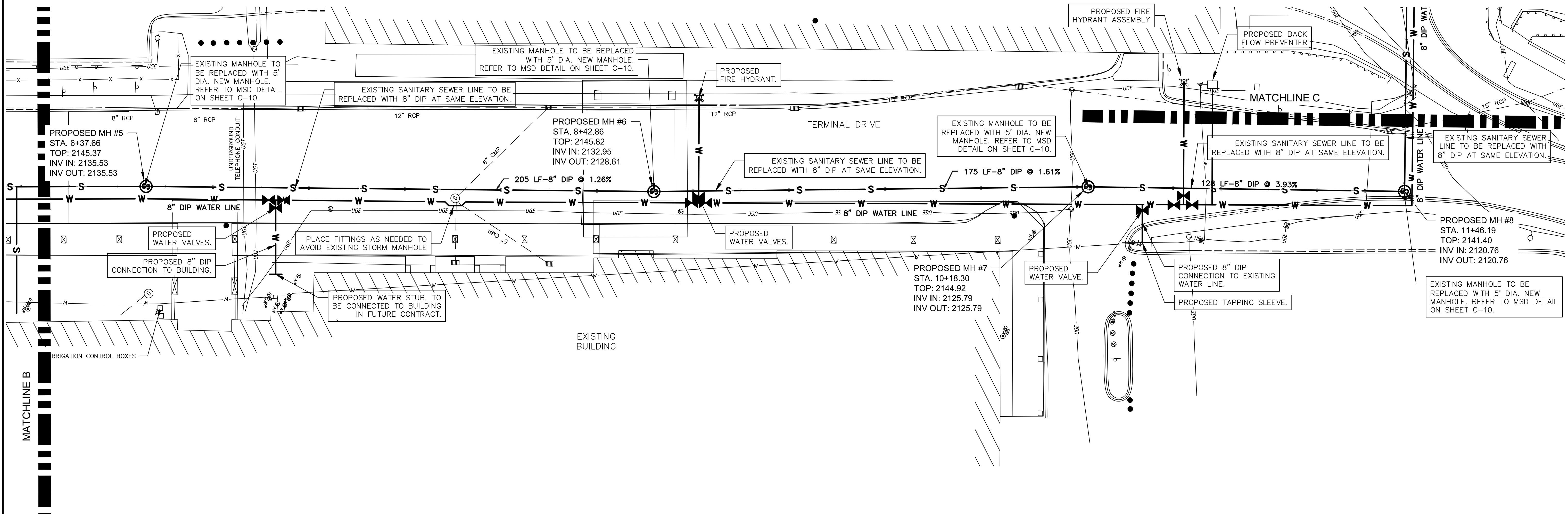
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DRAWING NO: C-04

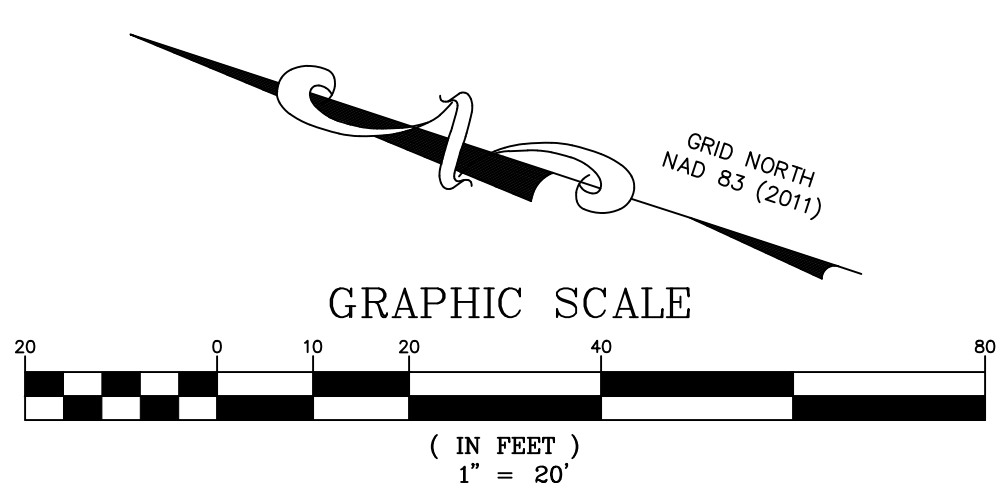
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NOTE: IN AREAS WHERE NEW WATER LINE CROSSES TERMINAL DRIVE, WORK MUST BE COMPLETED BETWEEN THE HOURS OF 12:30 AM AND 4:30 AM, UNLESS BORING IS THE CHOSEN METHOD OF CONSTRUCTION. TERMINAL DRIVE MUST REMAIN OPEN TO TRAFFIC.

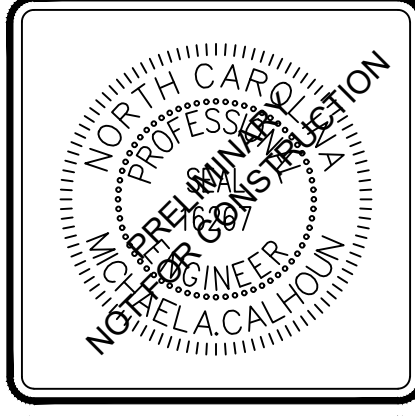


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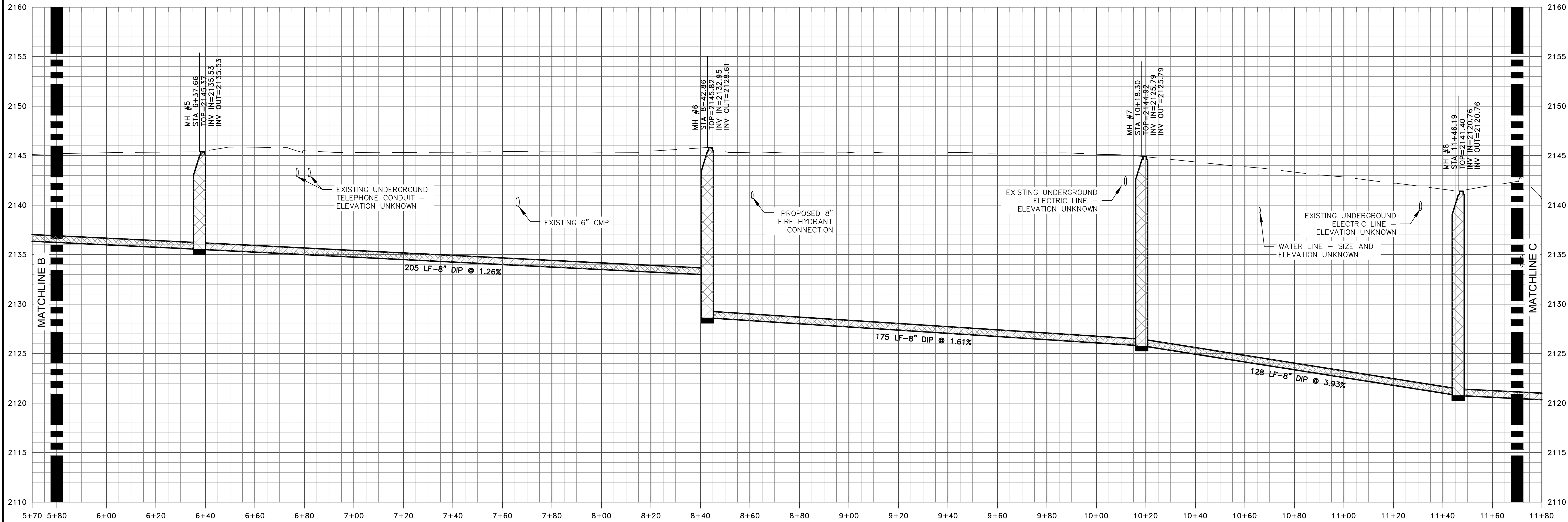
- Boone, NC 828-355-9933
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- Knoxville, TN 865-546-5800
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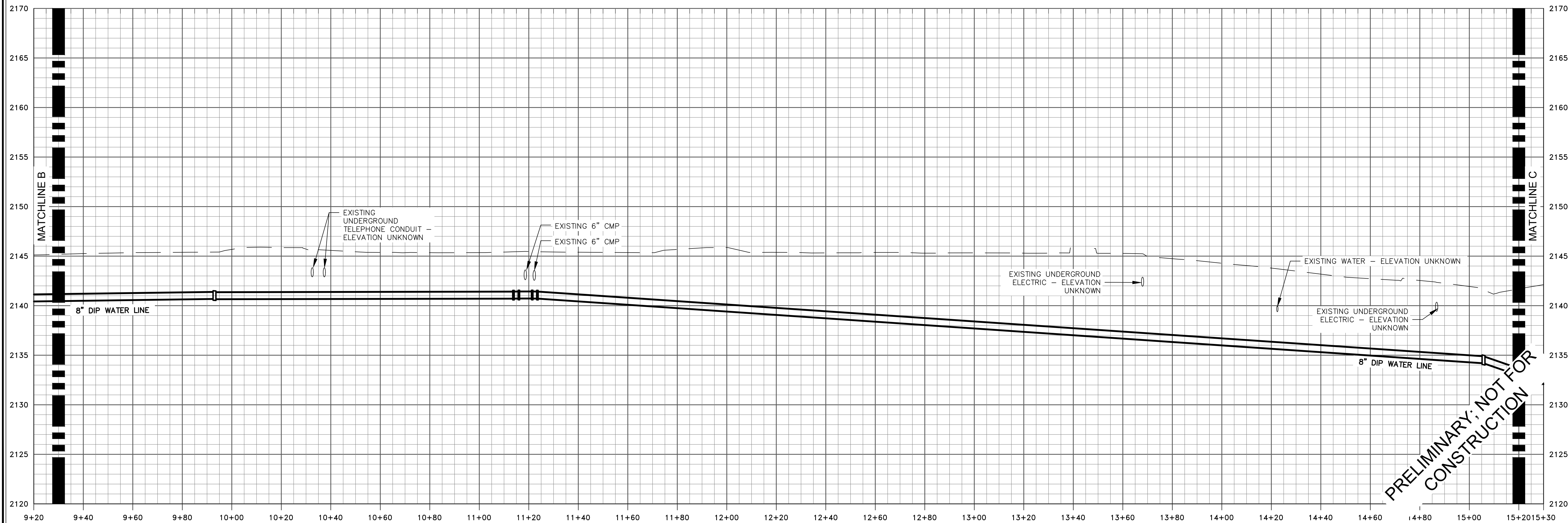
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SCALE:	1"=20'
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DRAWING NO:
C-05

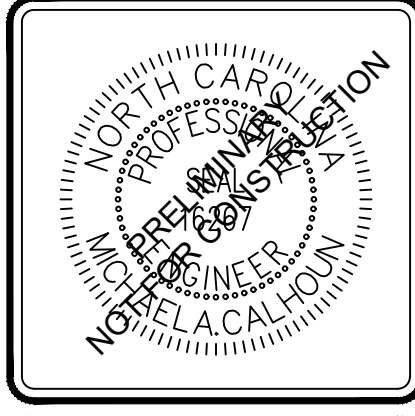
PROPOSED SANITARY SEWER
 HORIZONTAL SCALE 1"=20'
 VERTICAL SCALE 1"=5'



PROPOSED WATER LINE
 HORIZONTAL SCALE 1"=20'
 VERTICAL SCALE 1"=5'



NO.	DATE	REVISIONS	DESCRIPTION



ASHEVILLE REGIONAL AIRPORT
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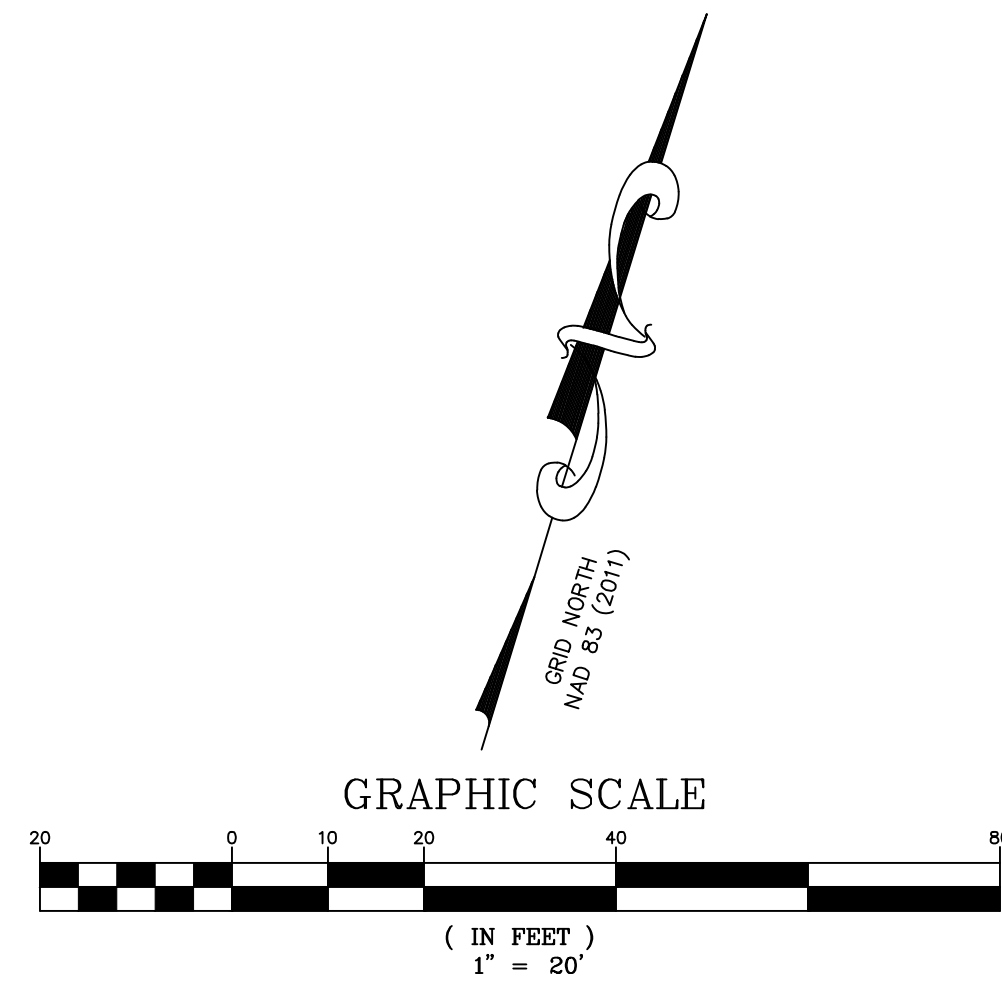
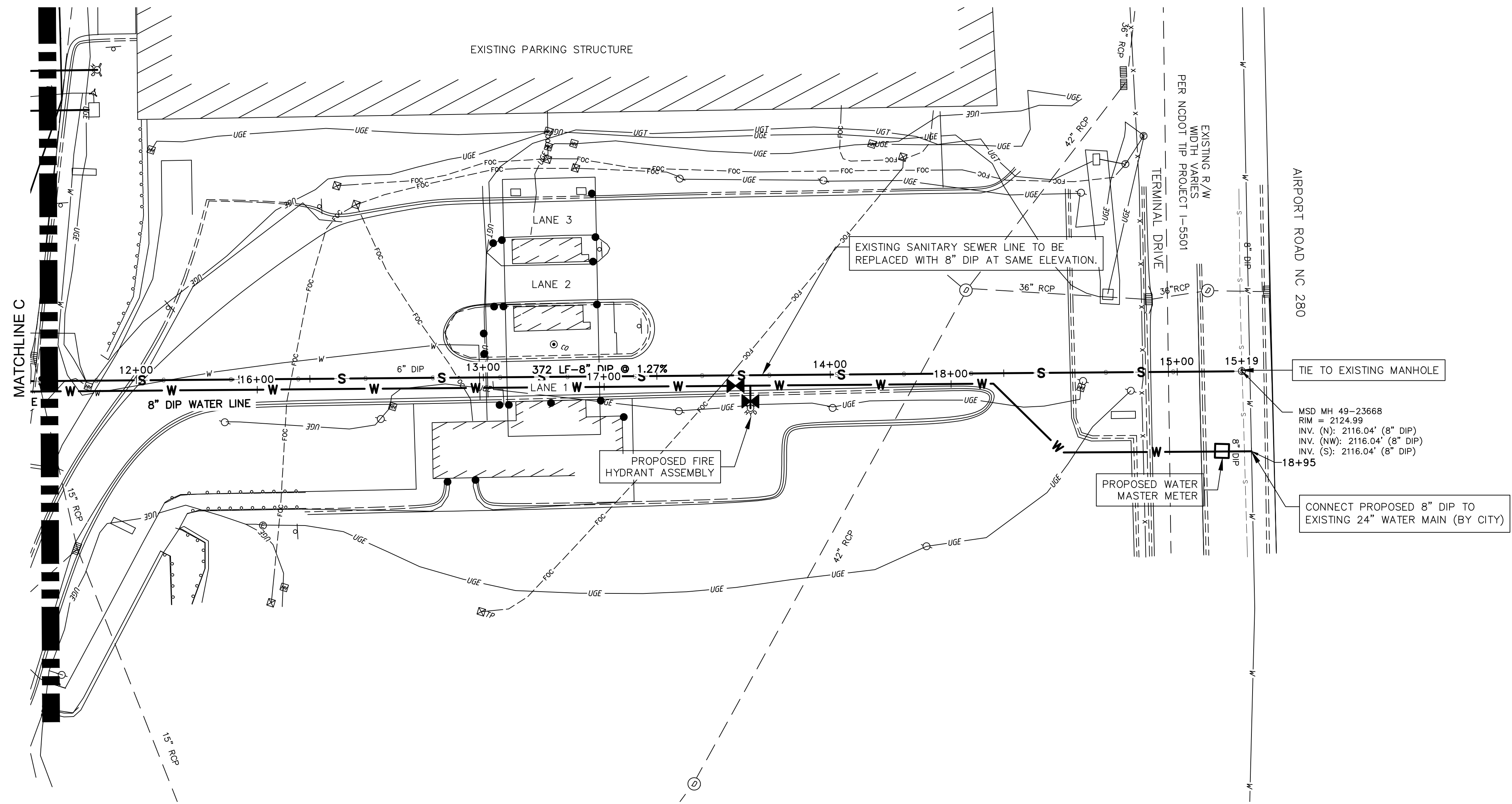
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DRAWING NO.:	C-06

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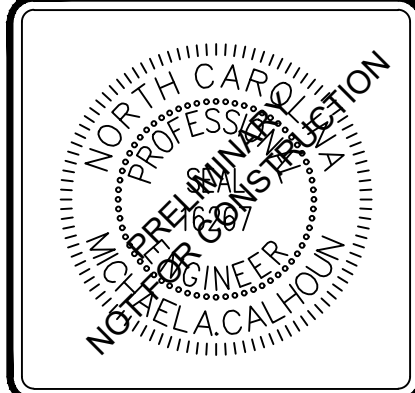
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NOTE: ALL CONSTRUCTION ON THIS SHEET SHALL BE DONE BETWEEN THE HOURS OF 12:30AM AND 4:30AM. THE CONTRACTOR IS REQUIRED TO INSTALL LIGHTED BARRICADES FOR CLOSURE OF LANE 1.



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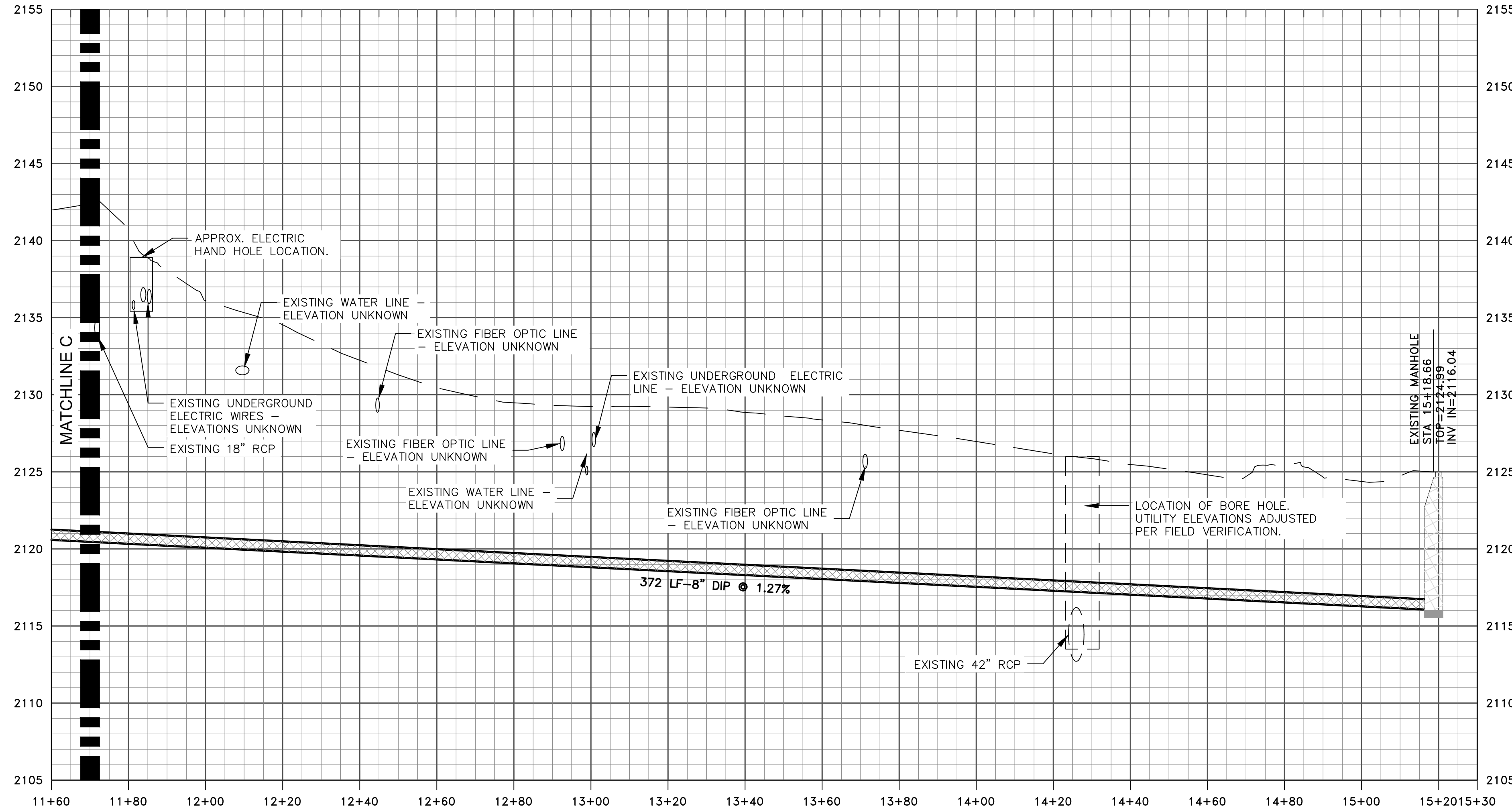
- Boone, NC
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- Charlotte, NC
704-357-0488
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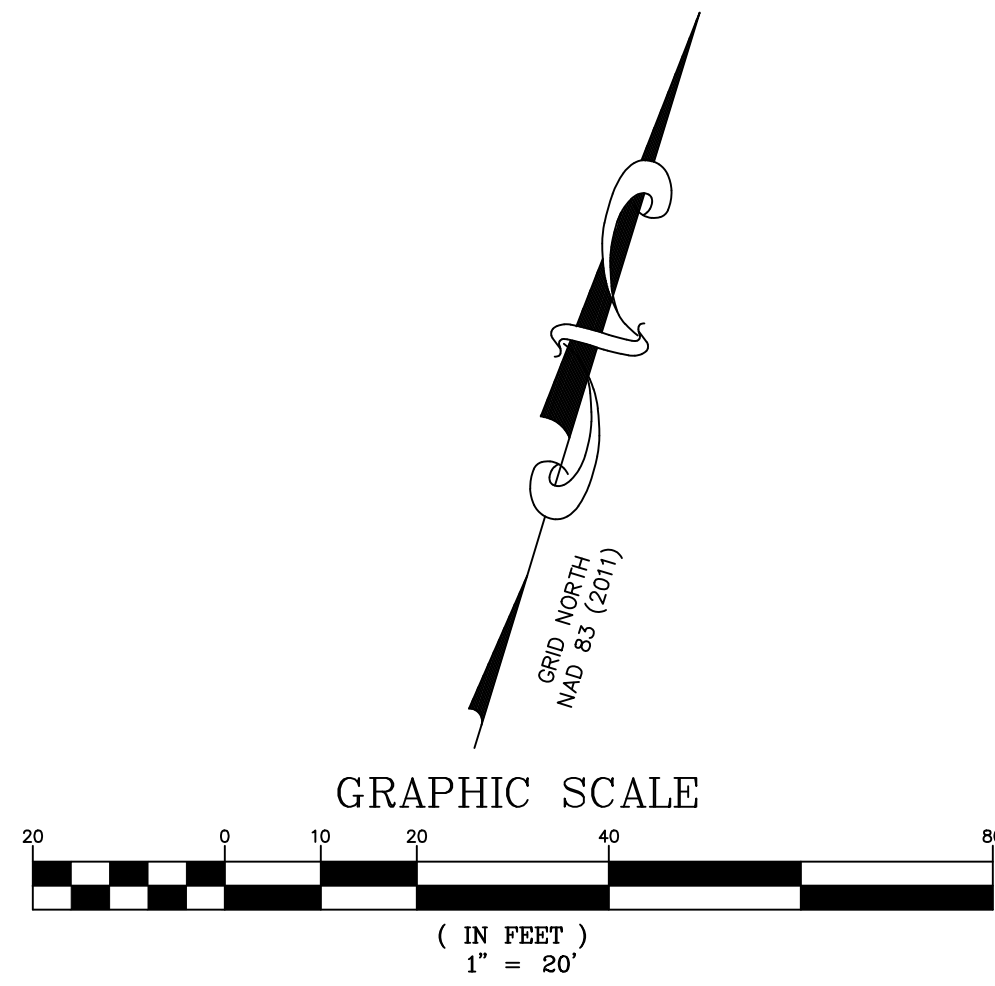
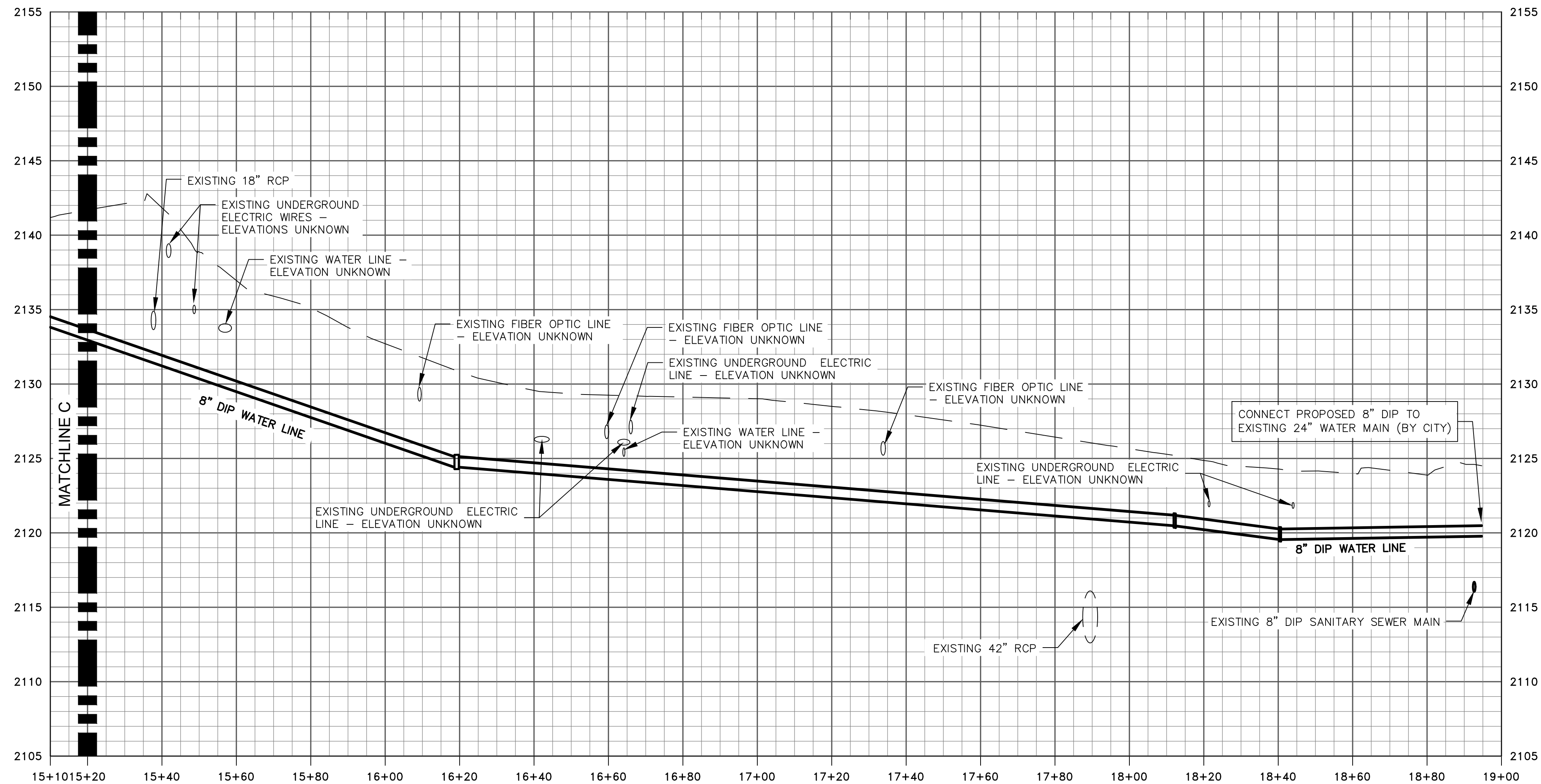
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DRAWING NO: C-07

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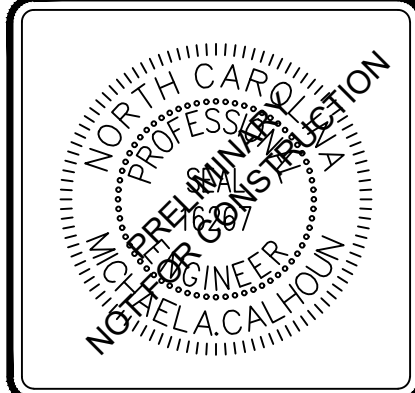
PROPOSED SANITARY SEWER
HORIZONTAL SCALE 1"=20'
VERTICAL SCALE 1"=5'



PROPOSED WATER LINE
HORIZONTAL SCALE 1"=20'
VERTICAL SCALE 1"=5'



NO.	DATE	REVISIONS DESCRIPTION



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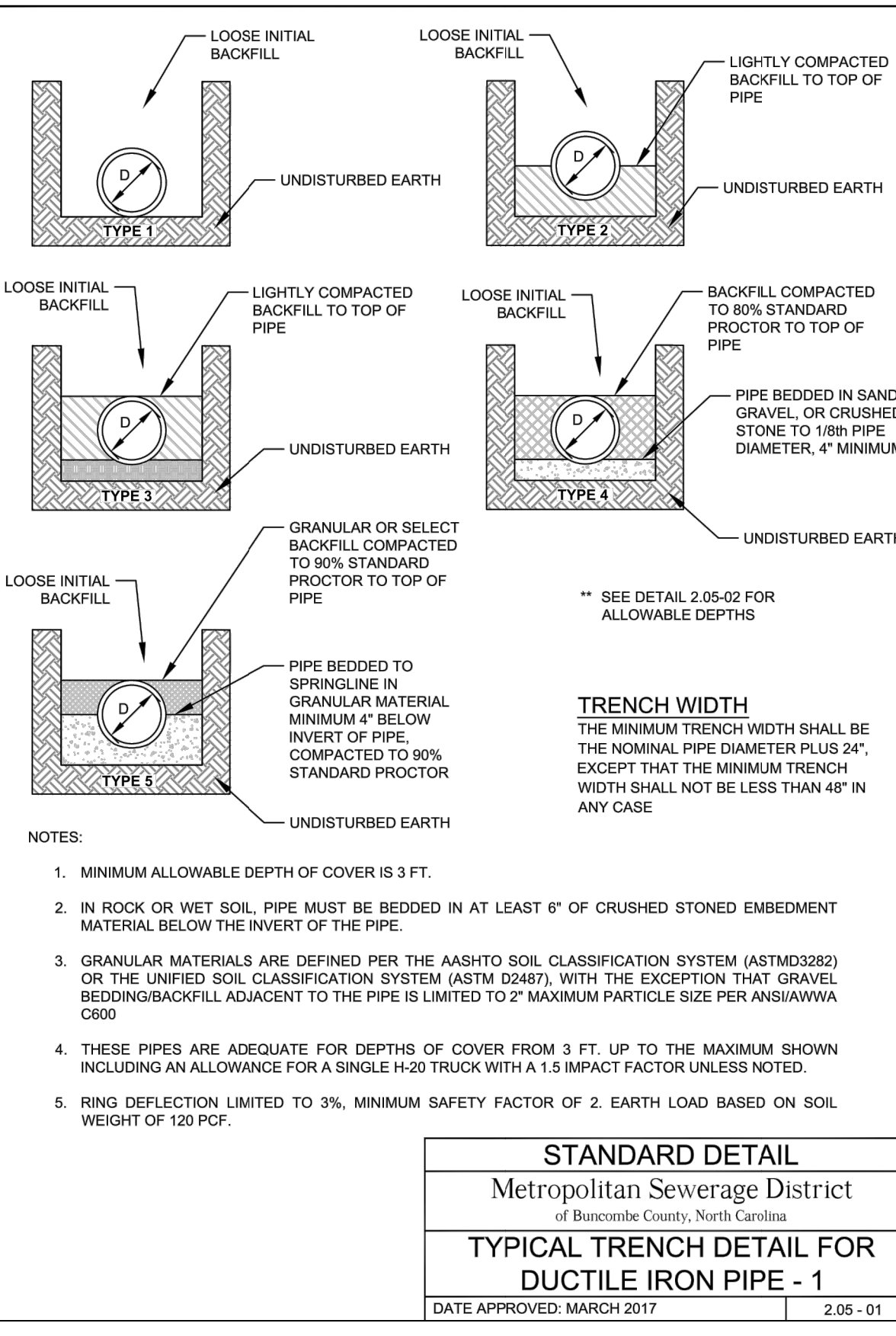
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DRAWING NO: C-08

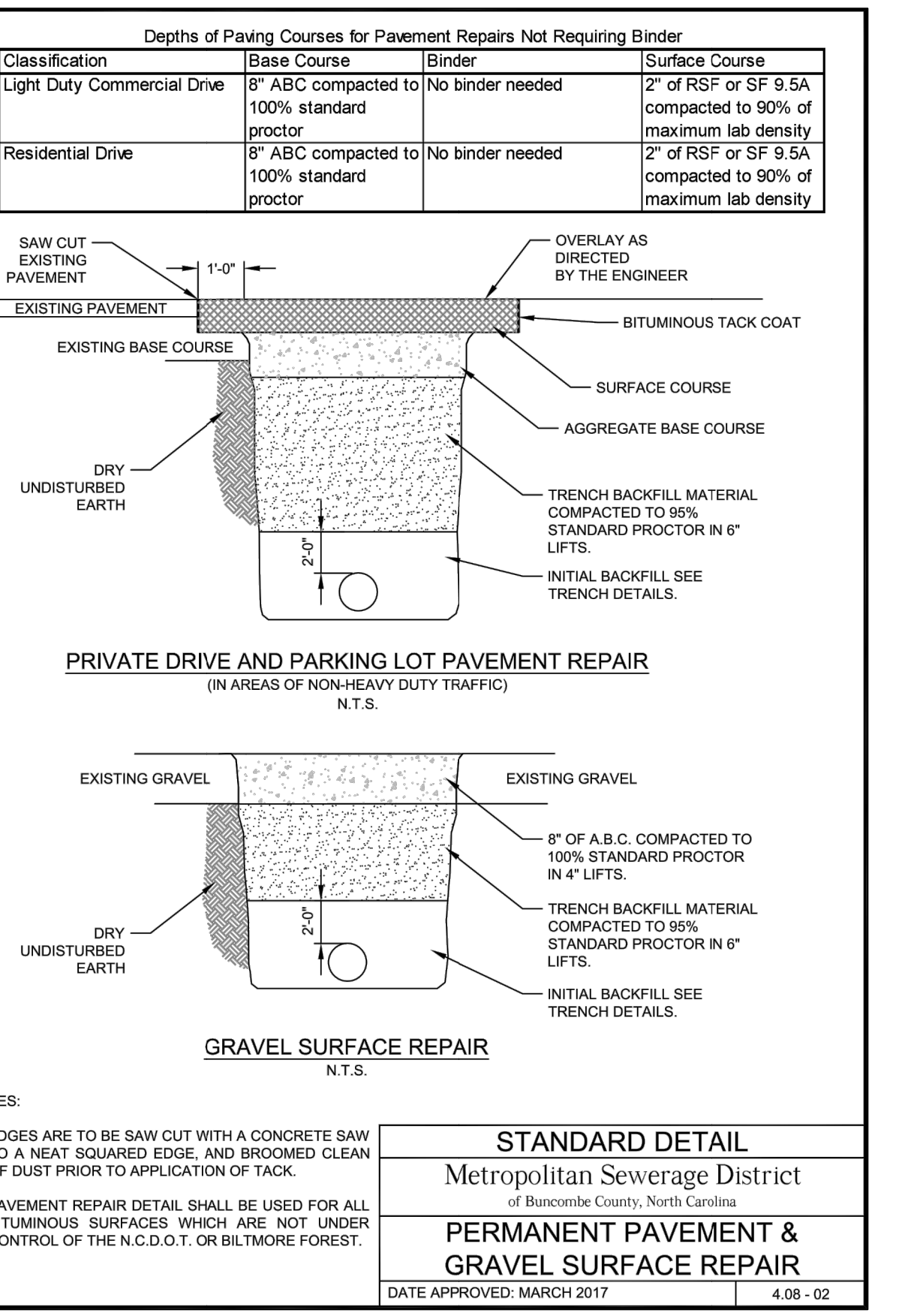
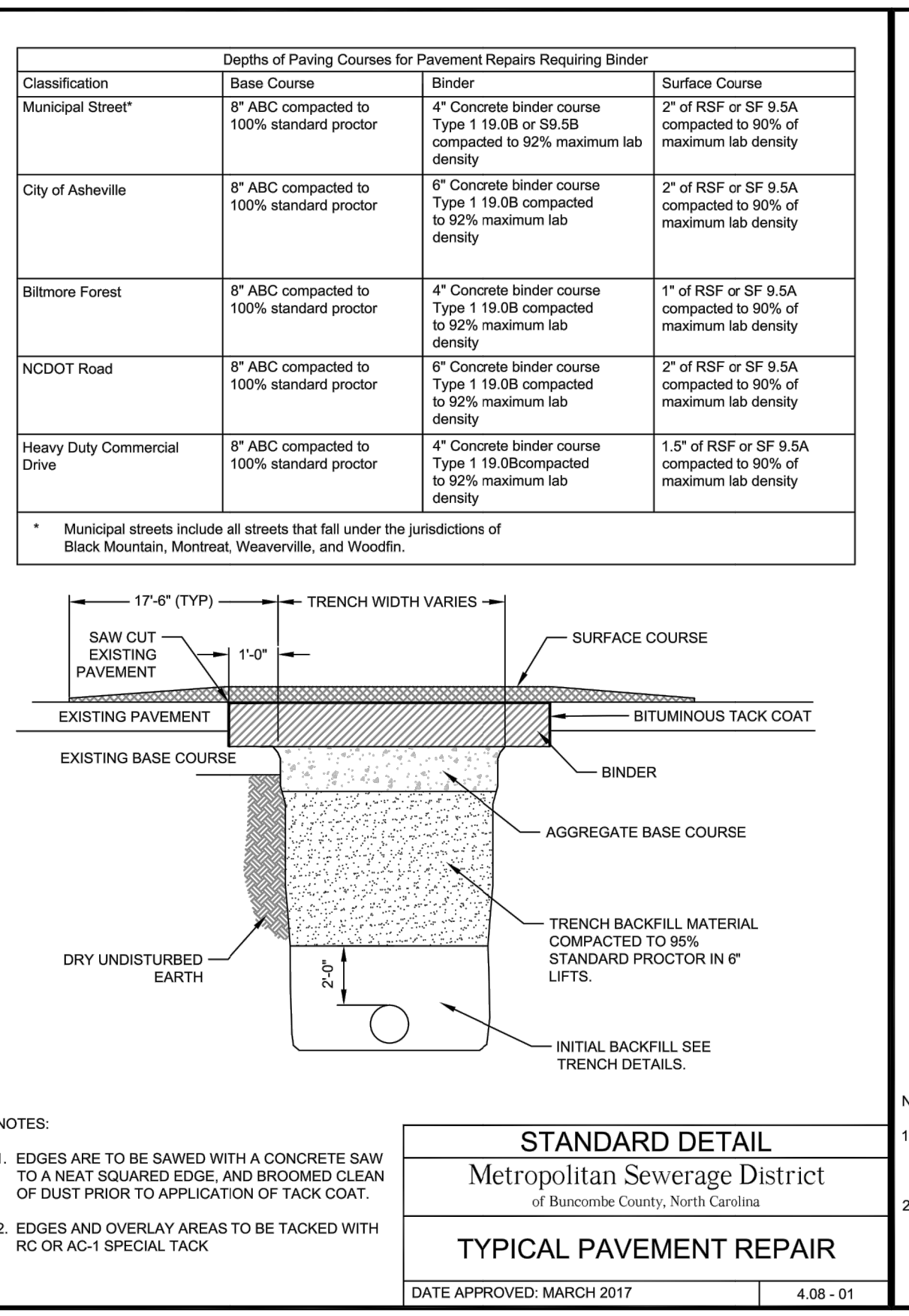
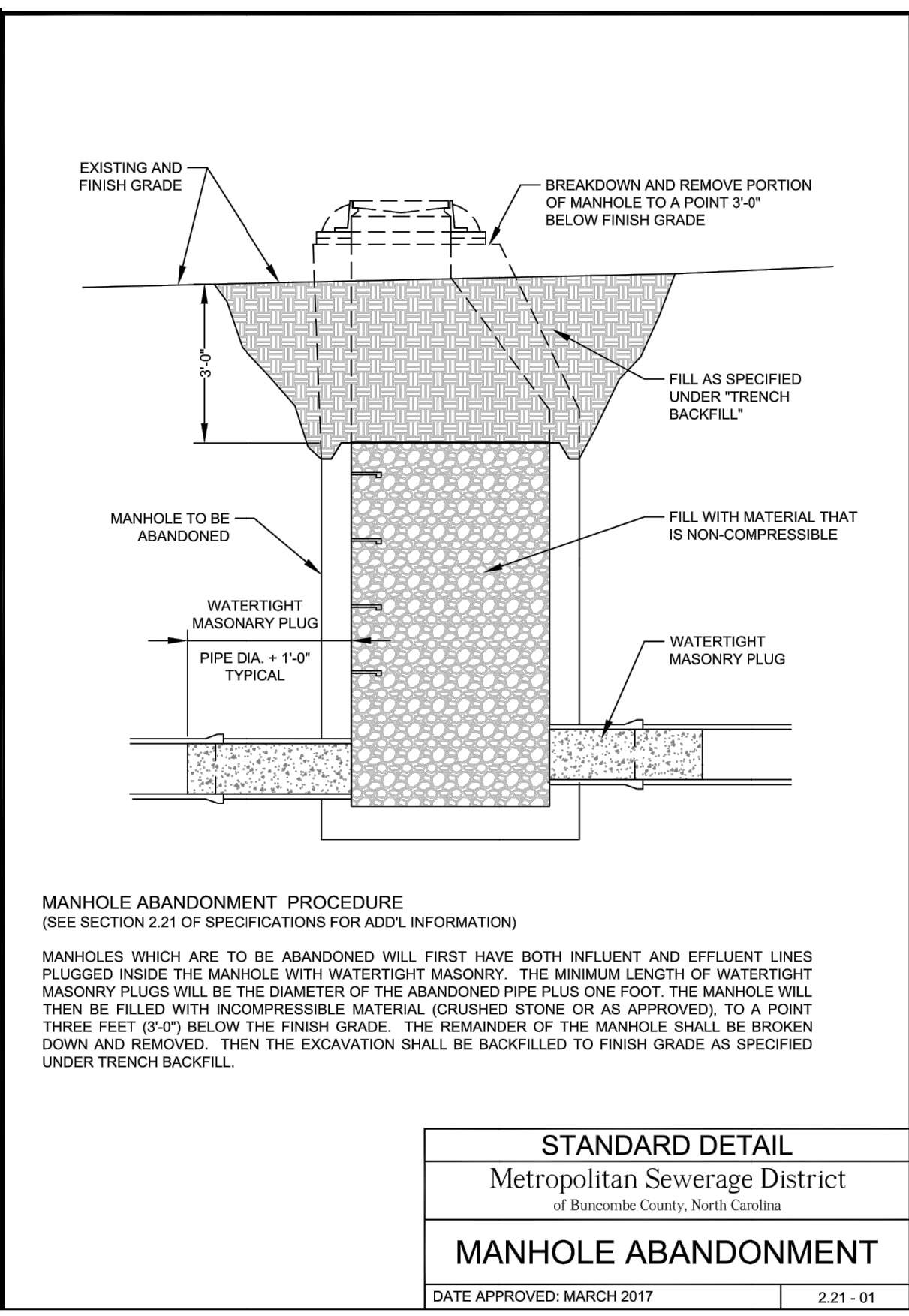
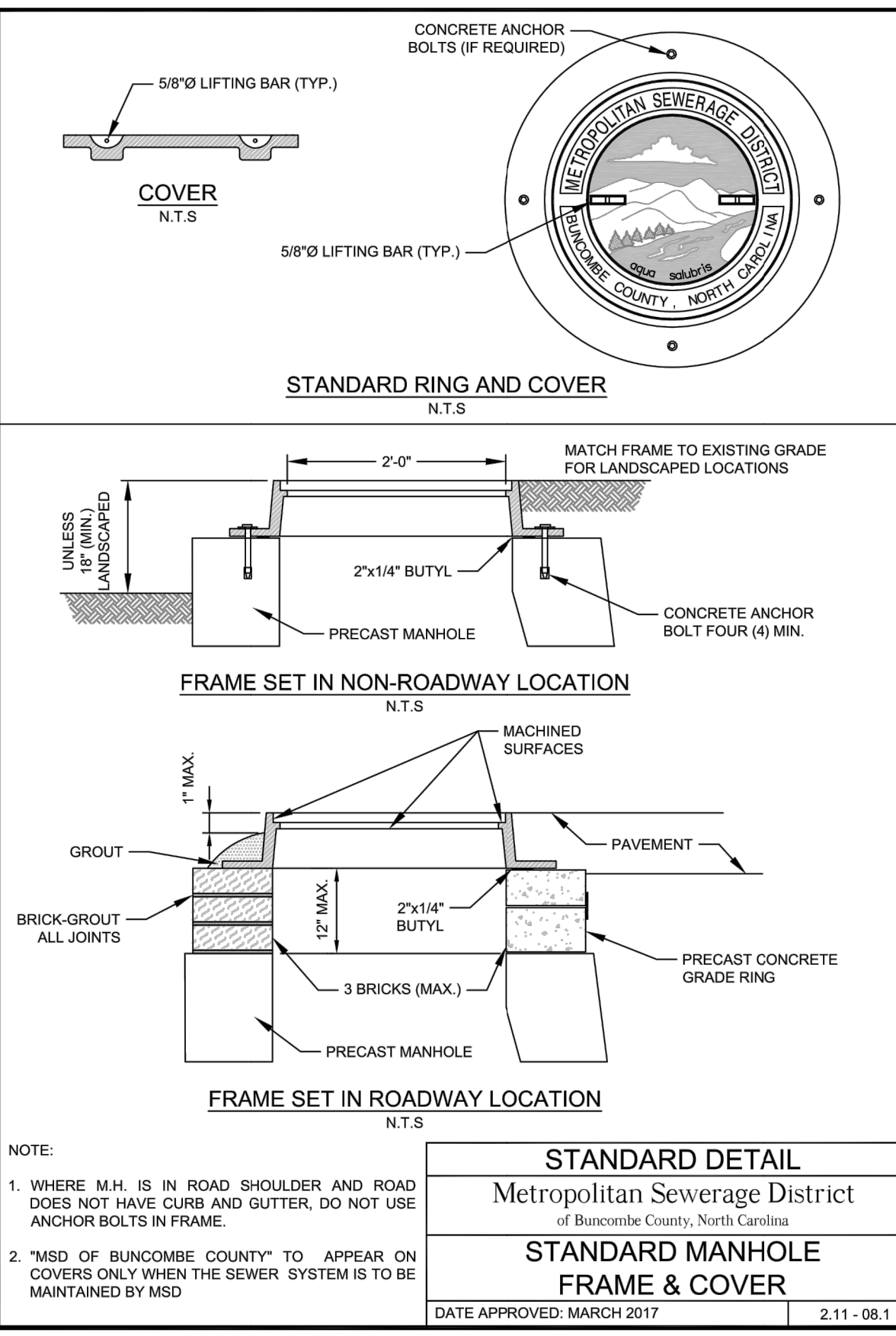
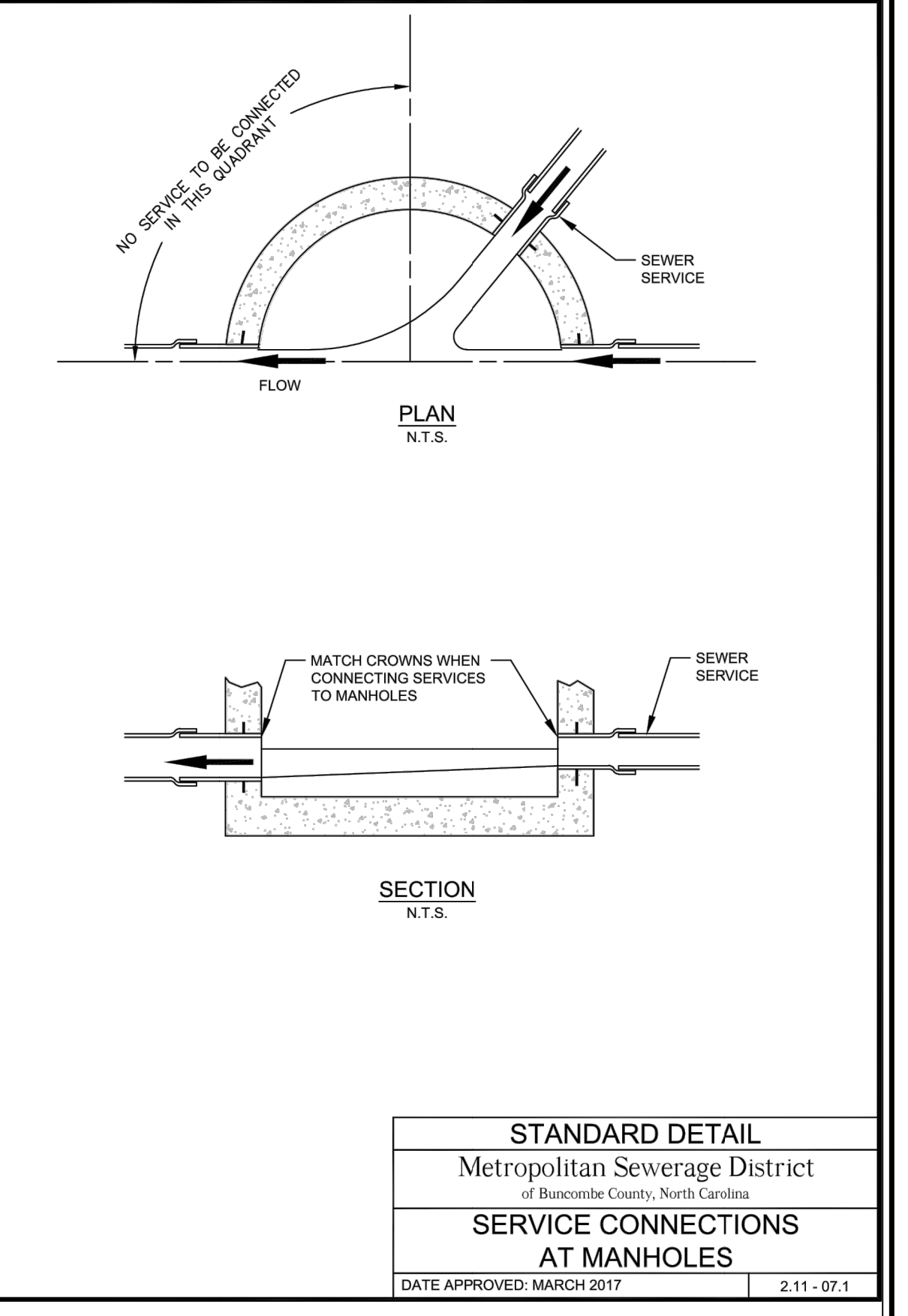
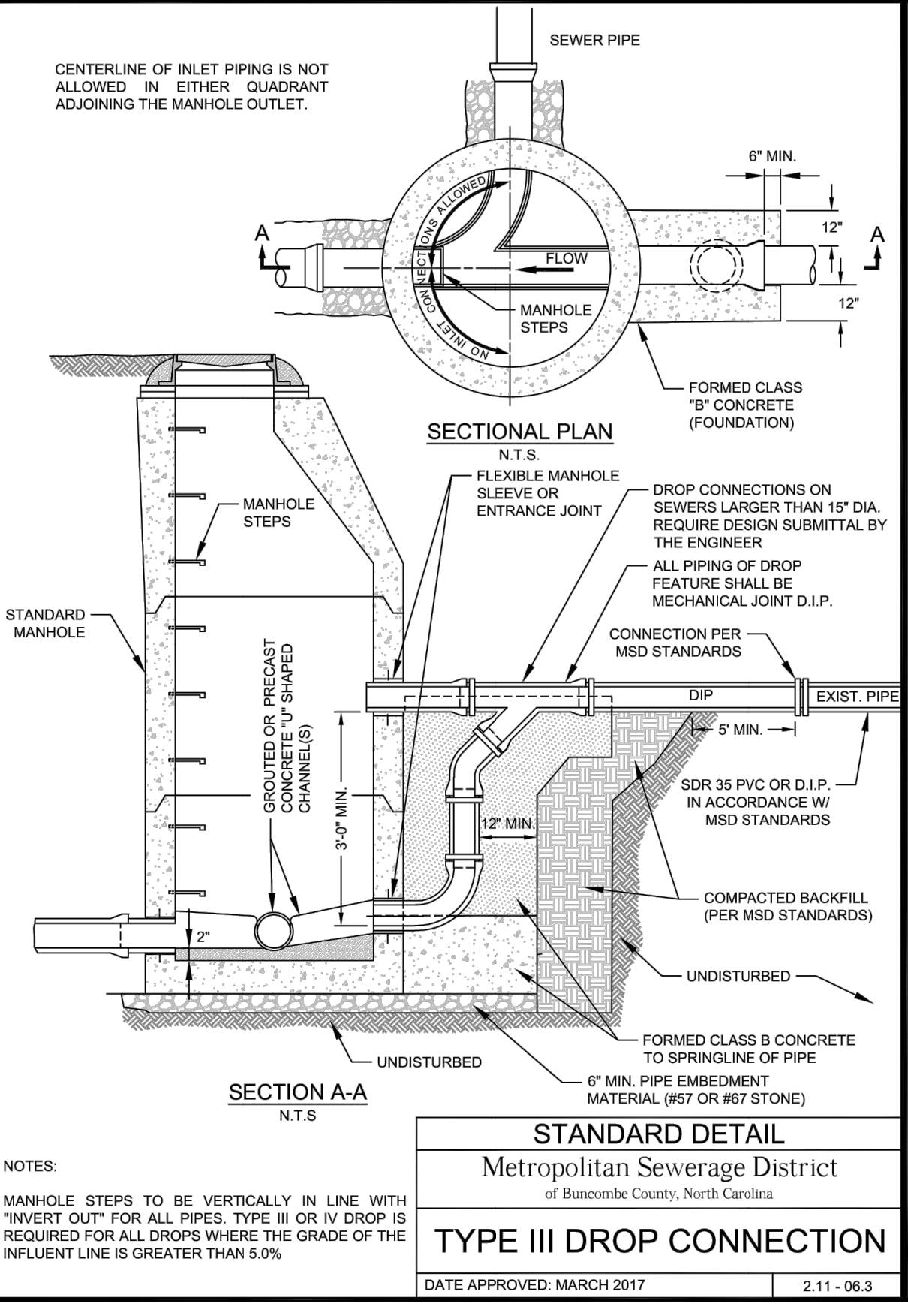
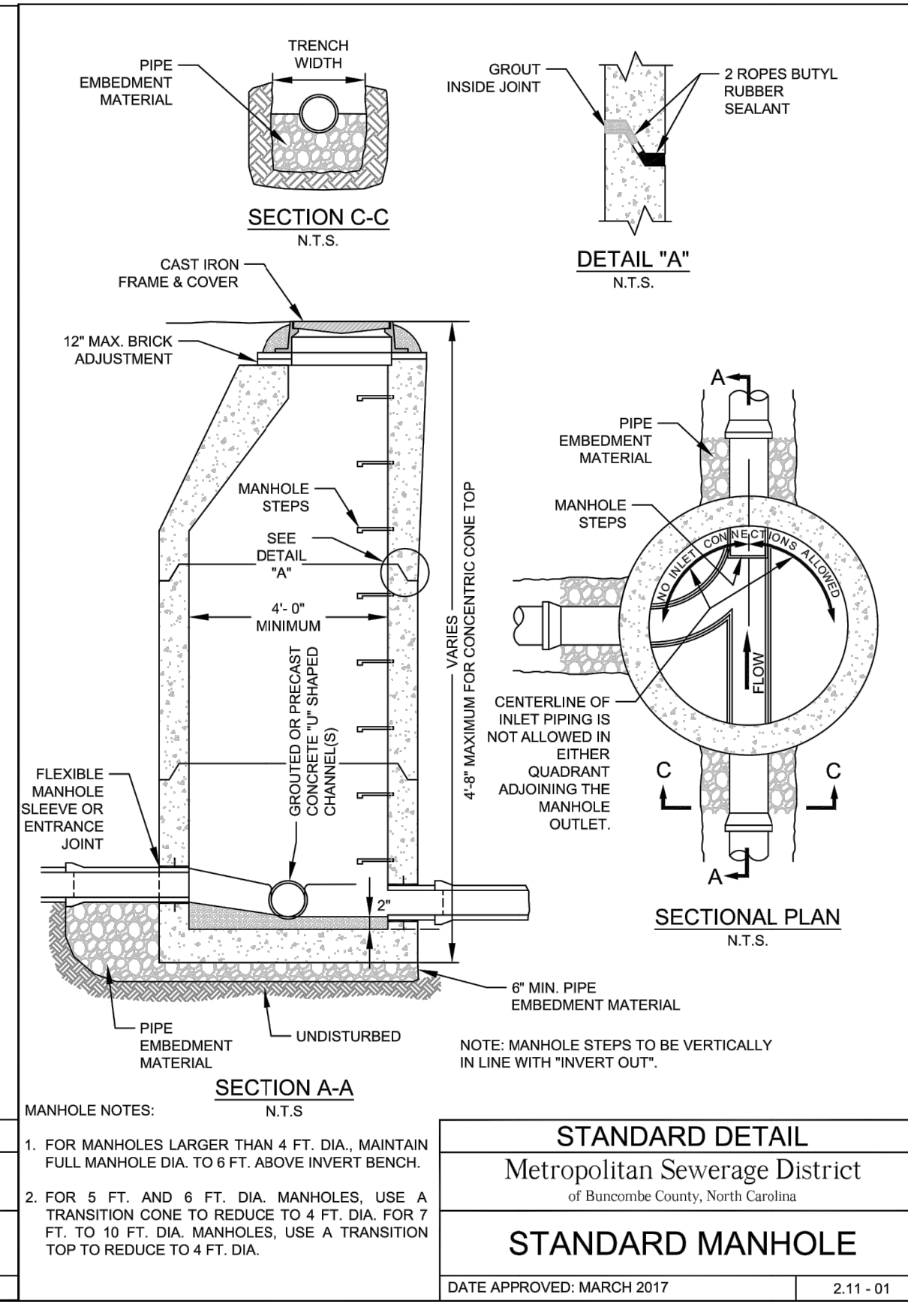
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Pipe Size	Class	Type 1	Type 2	Type 3	Type 4	Type 5
4	350	5.3	6.1	6.9	8.5	10.0
6	350	26	31	37	47	65
8	350	16	20	24	34	50
10	350	11	15	19	28	45
12	350	10	15	19	28	44
14	250	-	11	15	23	36
14	350	-	13	17	26	42
14	350	-	14	19	27	44
16	250	-	11	15	24	34
16	300	-	13	17	26	39
16	350	-	15	20	28	44
18	250	-	10	14	22	31
18	300	-	13	17	26	36
18	350	-	15	19	28	41
20	250	-	11	15	20	29
20	300	-	13	17	26	35
20	350	-	15	19	28	38
24	200	-	8	12	17	25
24	250	-	11	15	20	29
24	300	-	13	17	24	32
24	350	-	15	19	28	37
30	200	-	8	12	16	24
30	300	-	12	16	21	29
30	350	-	15	19	25	33
36	200	-	8	12	15	23
36	250	-	10	14	18	25
36	300	-	12	16	20	28
36	350	-	15	19	24	32
42	200	-	8	12	15	22
42	250	-	10	14	17	25
42	300	-	12	16	20	27
42	350	-	15	19	23	32
48	200	-	8	11	15	22
48	250	-	10	13	17	24
48	300	-	12	15	19	27
48	350	-	15	18	22	30
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54	250	-	10	13	16	24
54	300	-	13	15	19	27
54	350	-	15	18	22	30
60	200	-	8	11	14	22
60	250	-	10	13	16	24
60	300	-	13	15	19	26
60	350	-	15	18	22	30
64	200	-	8	11	14	21
64	250	-	10	13	16	24
64	300	-	12	15	19	26
64	350	-	15	17	21	29

SOURCE: Ductile Iron Pipe for Wastewater Applications, DIPRA 2006



Maximum Depth of Cover for Ductile Iron Pipe w/ Cement Lining

1. FOR MANHOLES LARGER THAN 4 FT. DIA. MAINTAIN FULL MANHOLE DIA. TO 6 FT. ABOVE INVERT BENCH.
2. FOR 5 FT. AND 6 FT. DIA. MANHOLES, USE A TRANSITION CONE TO REDUCE TO 4 FT. DIA. FOR 7 FT. TO 10 FT. DIA. MANHOLES, USE A TRANSITION TOP TO REDUCE TO 4 FT. DIA.

MANHOLE NOTES:
1. FOR MANHOLES LARGER THAN 4 FT. DIA. MAINTAIN FULL MANHOLE DIA. TO 6 FT. ABOVE INVERT BENCH.
2. FOR 5 FT. AND 6 FT. DIA. MANHOLES, USE A TRANSITION CONE TO REDUCE TO 4 FT. DIA. FOR 7 FT. TO 10 FT. DIA. MANHOLES, USE A TRANSITION TOP TO REDUCE TO 4 FT. DIA.

MANHOLE STEPS TO BE VERTICALLY IN LINE WITH "INVERT OUT".
MANHOLE STEPS TO BE VERTICALLY IN LINE WITH "INVERT OUT".
MANHOLE STEPS TO BE VERTICALLY IN LINE WITH "INVERT OUT".

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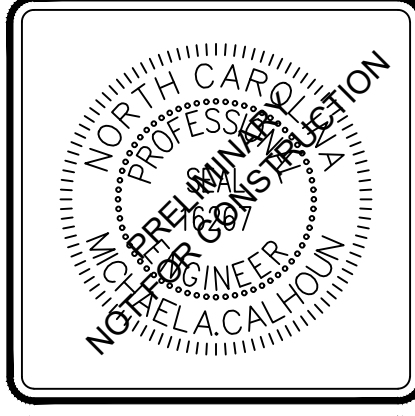
NOTE:
1. WHERE M.H. IS IN ROAD SHOULDER AND ROAD DOES NOT HAVE CURB AND GUTTER, DO NOT USE ANCHOR BOLTS IN FRAME.
2. "MSD OF BUNCOMBE COUNTY" TO APPEAR ON COVERS ONLY WHEN THE SEWER SYSTEM IS TO BE MAINTAINED BY MSD

MANHOLES WHICH ARE TO BE ABANDONED WILL FIRST HAVE BOTH INFLUENT AND EFFLUENT LINES PLUGGED INSIDE THE MANHOLE WITH WATERTIGHT MASONRY. THE MINIMUM LENGTH OF WATERTIGHT MASONRY PLUGS WILL BE THE DIAMETER OF THE ABANDONED PIPE PLUS ONE FOOT. THE MANHOLE WILL THEN BE FILLED WITH INCOMPRESSIBLE MATERIAL (CRUSHED STONE OR AS APPROVED), TO A POINT THREE FEET (3') BELOW THE FINISH GRADE. THE REMAINDER OF THE MANHOLE SHALL BE BROKEN DOWN AND REMOVED. THEN THE EXCAVATION SHALL BE BACKFILLED TO FINISH GRADE AS SPECIFIED UNDER TRENCH BACKFILL.

NOTES:
1. EDGES ARE TO BE SAW CUT WITH A CONCRETE SAW TO A NEAT SQUARED EDGE, AND BROOMED CLEAN OF DUST PRIOR TO APPLICATION OF TACK COAT.
2. EDGES AND OVERLAY AREAS TO BE TACKED WITH RC OR AC-1 SPECIAL TACK.

NOTES:
1. EDGES ARE TO BE SAW CUT WITH A CONCRETE SAW TO A NEAT SQUARED EDGE, AND BROOMED CLEAN OF DUST PRIOR TO APPLICATION OF TACK.
2. PAVEMENT REPAIR DETAIL SHALL BE USED FOR ALL BITUMINOUS SURFACES WHICH ARE NOT UNDER CONTROL OF THE N.C.D.O.T. OR BILTMORE FOREST.

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Vaughan & Melton
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SANITARY SEWER DETAILS
DRAWING NO:
C-09

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GENERAL NOTES:

- METER ASSEMBLY TO BE ELECTROMAGNETIC FLOW METER WITH DUCTILE IRON FLANGED PIPE.
- METER DEVICE SHALL BE PURCHASED THROUGH THE CITY OF ASHEVILLE.
- CONCRETE VAULTS SHALL BE PRECAST WITH A MIN. RODS AND CONCRETE.
- ACCESS DOOR SHALL BE A WATERPROOF 48" X 48" STEEL ALUMINUM POORIE LEAK DOOR REINFORCED FOR ASHED H-20 LOADING IN AREAS SUBJECT TO VEHICULAR TRAFFIC.
- DRAIN TO DAYLIGHT OR DRAINAGE STRUCTURE WITH FLAPED VALVE AT 1% MINIMUM SLOPE.
- PROVIDE 1" MINIMUM ABOVE BOTTOM OF STORM TO DISCHARGE SURF.
- VAULT SHOULD BE TIED INTO THE EXISTING STORM DRAINAGE SYSTEM WHEN POSSIBLE OR DRAIN TO DAYLIGHT.
- ALL FITTINGS AND APPURTENANCES OUTSIDE THE VAULT SHALL BE PROPERLY RESTRAINED.
- ALL FITTINGS INSIDE THE VAULT SHALL BE 6" FLANGED DUCTILE IRON PIPE.
- 14-5000 AMPERES THAT IS SUPPLIED IN A METAL BOX TO BE BOLDED WITH A (NEMA 8) ENCLOSURE FOR MANUFACTURER'S SPECIFICATION FOR MOISTURE PROTECTION.

City of Asheville, NC
WATER ENGINEERING DIVISION

STANDARD 3", 4" & 6" ELECTROMAGNETIC FLOW METER INSTALLATION AND VAULT

DATE: 8/2015
REVISIONS: DESCRIPTION REVISED
STD. NO.: W.04

GENERAL NOTES:

- WHERE SPRINKLER SYSTEMS ARE USED, A FIRE DEPARTMENT CONNECTION SHALL BE PROVIDED APPROVED BY FIRE OFFICIAL. CONNECTION LOCATIONS MUST BE APPROVED BY FIRE OFFICIAL.
- AIR ASSEMBLY ARE REQUIRED FOR THE METER.
- A PRESSURE REDUCING VALVE (PRV) MUST BE INSTALLED BEFORE THE BACKFLOW PREVENTER IF THE AVERAGE SYSTEM PRESSURE EXCEEDS 175 PSI. PRV SIZE SHALL MATCH LINE SIZE.
- IN BUILDING INSTALLATION WILL "ONLY" BE ALLOWED WHERE EXISTING SITE CONDITIONS MAKE IT UNFEASIBLE TO COMPLY WITH CHART BELOW. APPROVAL WILL BE GRANTED ON A CASE BY CASE BASIS AND WILL REQUIRE THE EXECUTION OF AN STOPPLETE CERTIFICATE BY THE OWNER / DEVELOPER.
- ALL NON-METERED PIPE SERVICE MAINS SHALL HAVE A DETECTOR METER WITH A REMOTE READING DEVICE INSTALLED.
- THERE SHALL BE A MINIMUM OF 12" SEPARATION OF FREE CLEARANCE BETWEEN THE SIDES AND BOTTOM OF THE ENCLOSURE / VAULT AND BACKFLOW ASSEMBLY.

City of Asheville, NC
WATER ENGINEERING DIVISION

BELOW GROUND BACKFLOW / ENCLOSURE

DATE: 8/2015
REVISIONS: DESCRIPTION REVISED
STD. NO.: W.09

GENERAL NOTES:

- LOCATION SHOULD BE COORDINATED WITH NCDOT ALONG STATE MAINTAINED ROADWAYS.
- OBSTRUCTION FREE AREA SHALL APPLY TO ALL LOCATIONS FOR FIRE HYDRANT INSTALLATION.
- HYDRANT LOCATION SHALL NOT INTERFERE WITH THE REQUIREMENTS OF THE NORTH CAROLINA BUILDING CODE.
- CONCRETE BOLLARDS WILL BE REQUIRED FOR INSTALLATION WITHIN PARKING AREAS.

City of Asheville, NC
WATER ENGINEERING DIVISION

STANDARD HYDRANT LOCATION

DATE: 8/2015
REVISIONS: DESCRIPTION REVISED
STD. NO.: W.15

City of Asheville, NC
WATER ENGINEERING DIVISION

FIRE HYDRANT INSTALLATION

DATE: 8/2015
REVISIONS: DESCRIPTION REVISED
STD. NO.: W.16

GENERAL NOTES:

- VALVE BOX SHALL NOT CONTACT WATER MAIN OR VALVE.
- VALVE PAD REQUIREMENTS SHALL NOT BE APPLICABLE FOR IMPROVED PAVED SURFACES.
- VALVE BOX ADJUSTMENT MUST BE DONE BY ADJUSTING/RAISING THE TOP SECTION OF THE EXISTING ADJUSTABLE SCREW-TYPE VALVE BOX TO GRADE OR BY INSTALLING A NEW VALVE BOX TOP SECTION. THE USE OF PAVING RINGS OR ADJUSTING C.I. SLEEVES IS NOT ALLOWED.

City of Asheville, NC
WATER ENGINEERING DIVISION

TYPICAL VALVE & VALVE BOX INSTALLATION / ADJUSTMENT

DATE: 8/2015
REVISIONS: DESCRIPTION REVISED
STD. NO.: W.18

City of Asheville, NC
WATER ENGINEERING DIVISION

TAPPING SLEEVE AND VALVE ASSEMBLY

DATE: 8/2015
REVISIONS: DESCRIPTION REVISED
STD. NO.: W.20

GENERAL NOTES:

- CONSTRUCTION OF TRENCHES SHALL BE IN ACCORDANCE WITH THE LATEST OSHA REGULATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE REGULATIONS.
- NO BOULDERS OR STONES IN EXCESS OF 4" IN SIZE SHALL BE USED AS PART OF THE INITIAL BACKFILL.
- PIPE BEDDING MATERIAL SHALL BE # 57 WASHED STONE.
- SELECT BACKFILL MATERIAL SHALL BE CLASS I OR II AS PER NCDOT STANDARD SPECIFICATIONS.

City of Asheville, NC
WATER ENGINEERING DIVISION

TYPICAL TRENCH DETAIL

DATE: 8/2015
REVISIONS: DESCRIPTION REVISED
STD. NO.: W.21

GENERAL NOTES:

- RESTRAINED JOINTS BY AN APPROVED PIPE MANUFACTURER ARE TO BE USED FOR ALL PUBLIC WATERLINES. THRUST BLOCKS ARE PERMITTED WHERE THE USE OF MECHANICAL RESTRAINT IS NOT FEASIBLE.
- DIMENSION TABLE GIVEN IS A GUIDE ONLY. TO ENGINEER SHALL BE RESPONSIBLE TO CALCULATE THRUST BLOCK DIMENSIONS AND/OR BASED ON RESTRAINED LENGTH ACTUAL SOIL AND OPERATING PRESSURE CONDITIONS.
- FITTING JOINTS SHALL BE KEPT FREE OF CONCRETE. A LAYER OF POLYETHYLENE PLASTIC SHALL BE PLACED BETWEEN THE FITTING AND THE CONCRETE.
- PRE-CAST THRUST BLOCKS ARE NOT ACCEPTABLE.
- CONCRETE SHALL HAVE 4000 P.S.I. COMPRESSIVE STRENGTH.

City of Asheville, NC
WATER ENGINEERING DIVISION

THRUST BLOCK FOR FITTINGS & RESTRAINING REQUIREMENTS

DATE: 8/2015
REVISIONS: DESCRIPTION REVISED
STD. NO.: W.22

City of Asheville, NC
WATER ENGINEERING DIVISION

CARRIER PIPE IN STEEL ENCASEMENT

DATE: 8/2016
REVISIONS: DESCRIPTION REVISED
STD. NO.: W.26

NO.	DATE	REVISIONS DESCRIPTION

ASHEVILLE REGIONAL AIRPORT TERMINAL BUILDING - PH. I UTILITY MODERNIZATION

ASHEVILLE, BUNCOMBE COUNTY, NORTH CAROLINA

V&M
Vaughan & Melton

Firm License # F-1086
1310-F Patton Ave.
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606-248-6600

N. Charleston, SC
843-560-0085

Spartanburg, SC
864-574-4775

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DRAWN: TAR
CHECKED: MAC
JOB NO: 31950-01
SCALE: 1"=20'
DATE: APRIL 29, 2019
FILE NAME: 31950-01 Design.dwg
DRAWING TITLE: WATER DETAILS
DRAWING NO: C-10



MEMORANDUM

TO: Members of the Airport Authority

FROM: John G. Coon, A.A.E.
Director of Operations and Maintenance

DATE: August 9, 2019

ITEM DESCRIPTION – New Business Item C

Approve Agreement with LAZ Parking to Operate Shuttle Buses

BACKGROUND

At the May 10, 2019 meeting, the Board approved the purchase of buses for passenger shuttle operations. LAZ Parking, current operator of the parking system, will operate the buses on behalf of the authority. LAZ has submitted a one-year budget to operate the shuttle buses at a cost of \$389,398.00. The proposed agreement reflects operating the buses for approximately 20 hours per day 7 days a week, depending upon demand.

ISSUES

None.

ALTERNATIVES

None.

FISCAL IMPACT

The total expense of \$389,398.00 will be paid from the GARAA funds.

RECOMMENDED ACTION

It is respectfully requested that the Greater Asheville Regional Airport Authority Board resolve to (1) authorize the execution of shuttle agreement with LAZ Parking in the amount of \$389,398.00; (2) authorize the Executive Director to execute the necessary documents; and (3) amend the FY2019/2020 budget by adopting the following budget ordinance amendment:

New Business – Item C



BE IT ORDAINED by the Greater Asheville Regional Airport Authority that the following amendment be made to the annual budget ordinance for the fiscal year ending June 30, 2020:

Section 1. To amend the appropriations as follows:

EXPENDITURES:

	<u>Decrease</u>	<u>Increase</u>
Operations Department	_____	\$389,398.00
Total	_____	\$389,398.00

This will result in a net increase of \$389,398.00 in the appropriations. Revenues will be revised as follows:

REVENUES:

	<u>Decrease</u>	<u>Increase</u>
Transfer from GARAA Cash	_____	\$389,398.00
Totals	_____	\$389,398.00

Section 2. Copies of this budget amendment shall be furnished to the Clerk to the Greater Asheville Regional Airport Authority, and to the Budget Officer and to the Finance Officer for their direction.

Adopted this 9th day of August 2019.

 Matthew Burrell, Chair

Attested by:

 Ellen Heywood, Clerk to the Board



MEMORANDUM

TO: Members of the Airport Authority
FROM: Lew Bleiweis, A.A.E., Executive Director
DATE: August 9, 2019

ITEM DESCRIPTION – Information Section Item A

June, 2019 Traffic Report – Asheville Regional Airport

SUMMARY

June, 2019 overall passenger traffic numbers were up 45.5% compared to the same period last year. Passenger traffic numbers reflect a 46.3% increase in passenger enplanements from June, 2018. Enplanements for Fiscal Year to Date total 691,705 which is a 30.4% increase over the same period last year.

AIRLINE PERFORMANCE

Allegiant Airlines: Year over Year passenger enplanements for Allegiant in June 2019 were up by 51.1%. There were no flight cancellations for the month.

American Airlines: American's June 2019 passenger enplanements represent an 80.7% increase over the same period last year. There were ten (10) flight cancellations for the month.

Delta Airlines: Delta's June 2019 enplanements increased by 4.0% compared to June 2018. There were no flight cancellations for the month.

Elite Airways: Year over Year passenger enplanements for Elite in June 2019 were down by 8.6%. There were no flight cancellations for the month.

United Airlines: In June 2019, United Airlines saw an increase in enplanements by 13.9% over the same period last year. There were two (2) flight cancellations for the month.

Monthly Traffic Report

Asheville Regional Airport

June 2019



Category	Jun 2019	Jun 2018	Percentage Change	*CYTD-2019	*CYTD-2018	Percentage Change	*MOV12-2019	*MOV12-2018	Percentage Change
Passenger Traffic									
Enplaned	77,313	52,845	46.3%	360,785	247,354	45.9%	681,607	521,686	30.7%
Deplaned	<u>77,790</u>	<u>53,758</u>	44.7%	<u>357,774</u>	<u>246,707</u>	45.0%	<u>677,459</u>	<u>521,507</u>	29.9%
Total	155,103	106,603	45.5%	718,559	494,061	45.4%	1,359,066	1,043,193	30.3%
Aircraft Operations									
Airlines	1,115	751	48.5%	5,895	4,122	43.0%	11,003	8,383	31.3%
Commuter/ Air Taxi	<u>1,262</u>	<u>1,085</u>	16.3%	4,799	4,100	17.0%	10,839	10,653	1.7%
Subtotal	<u>2,377</u>	<u>1,836</u>	29.5%	<u>10,694</u>	<u>8,222</u>	30.1%	<u>21,842</u>	<u>19,036</u>	14.7%
General Aviation	4,271	4,797	-11.0%	21,457	19,959	7.5%	40,229	43,449	-7.4%
Military	<u>237</u>	<u>370</u>	-35.9%	<u>1,491</u>	<u>1,587</u>	-6.0%	<u>3,101</u>	<u>4,168</u>	-25.6%
Subtotal	<u>4,508</u>	<u>5,167</u>	-12.8%	<u>22,948</u>	<u>21,546</u>	6.5%	<u>43,330</u>	<u>47,617</u>	-9.0%
Total	6,885	7,003	-1.7%	33,642	29,768	13.0%	65,172	66,653	-2.2%
Fuel Gallons									
100LL	16,726	16,227	3.1%	81,699	73,580	11.0%	171,566	170,219	0.8%
Jet A (GA)	154,941	147,928	4.7%	533,287	592,688	-10.0%	1,398,546	1,474,556	-5.2%
Subtotal	<u>171,667</u>	<u>164,155</u>	4.6%	<u>614,986</u>	<u>666,268</u>	-7.7%	<u>1,570,112</u>	<u>1,644,775</u>	-4.5%
Jet A (A/L)	<u>630,222</u>	<u>419,771</u>	50.1%	<u>2,924,994</u>	<u>1,912,519</u>	52.9%	<u>5,370,424</u>	<u>3,951,842</u>	35.9%
Total	801,889	583,926	37.3%	3,539,980	2,578,787	37.3%	6,940,536	5,596,617	24.0%

*CYTD = Calendar Year to Date and *Mov12 = Moving Twelve Months.

Monday, July 29, 2019

Airline Enplanements, Seats, and Load Factors

Asheville Regional Airport

June 2019



	Jun 2019	Jun 2018	Percentage Change	*CYTD-2019	*CYTD-2018	Percentage Change
Allegiant Air						
Enplanements	32,838	21,726	51.1%	150,110	87,952	70.7%
Seats	40,782	24,404	67.1%	199,887	104,718	90.9%
Load Factor	80.5%	89.0%	-9.6%	75.1%	84.0%	-10.6%
American Airlines						
Enplanements	16,358	9,055	80.7%	76,003	52,837	43.8%
Seats	19,278	11,087	73.9%	91,486	64,898	41.0%
Load Factor	84.9%	81.7%	3.9%	83.1%	81.4%	2.0%
Delta Air Lines						
Enplanements	14,393	13,842	4.0%	73,659	71,488	3.0%
Seats	15,850	15,160	4.6%	84,390	81,855	3.1%
Load Factor	90.8%	91.3%	-0.5%	87.3%	87.3%	-0.1%
Elite Airways						
Enplanements	202	221	-8.6%	272	492	-44.7%
Seats	450	400	12.5%	620	1,120	-44.6%
Load Factor	44.9%	55.3%	-18.8%	43.9%	43.9%	-0.1%
Spirit Airlines						
Enplanements	4,410	0	#Div/0!	25,131	0	#Div/0!
Seats	8,918	0	#Div/0!	49,504	0	#Div/0!
Load Factor	49.5%	#Num!	#Type!	50.8%	#Num!	#Type!
United Airlines						
Enplanements	9,112	8,001	13.9%	35,610	34,585	3.0%
Seats	13,028	9,358	39.2%	46,238	42,183	9.6%
Load Factor	69.9%	85.5%	-18.2%	77.0%	82.0%	-6.1%

Monday, July 29, 2019

*CTYD = Calendar Year to Date and *Mov12 = Moving Twelve Months.

	Jun 2019	Jun 2018	Percentage Change	*CYTD-2019	*CYTD-2018	Percentage Change
Totals						
Enplanements	77,313	52,845	46.3%	360,785	247,354	45.9%
Seats	98,306	60,409	62.7%	472,125	294,774	60.2%
Load Factor	78.6%	87.5%	-10.1%	76.4%	83.9%	-8.9%

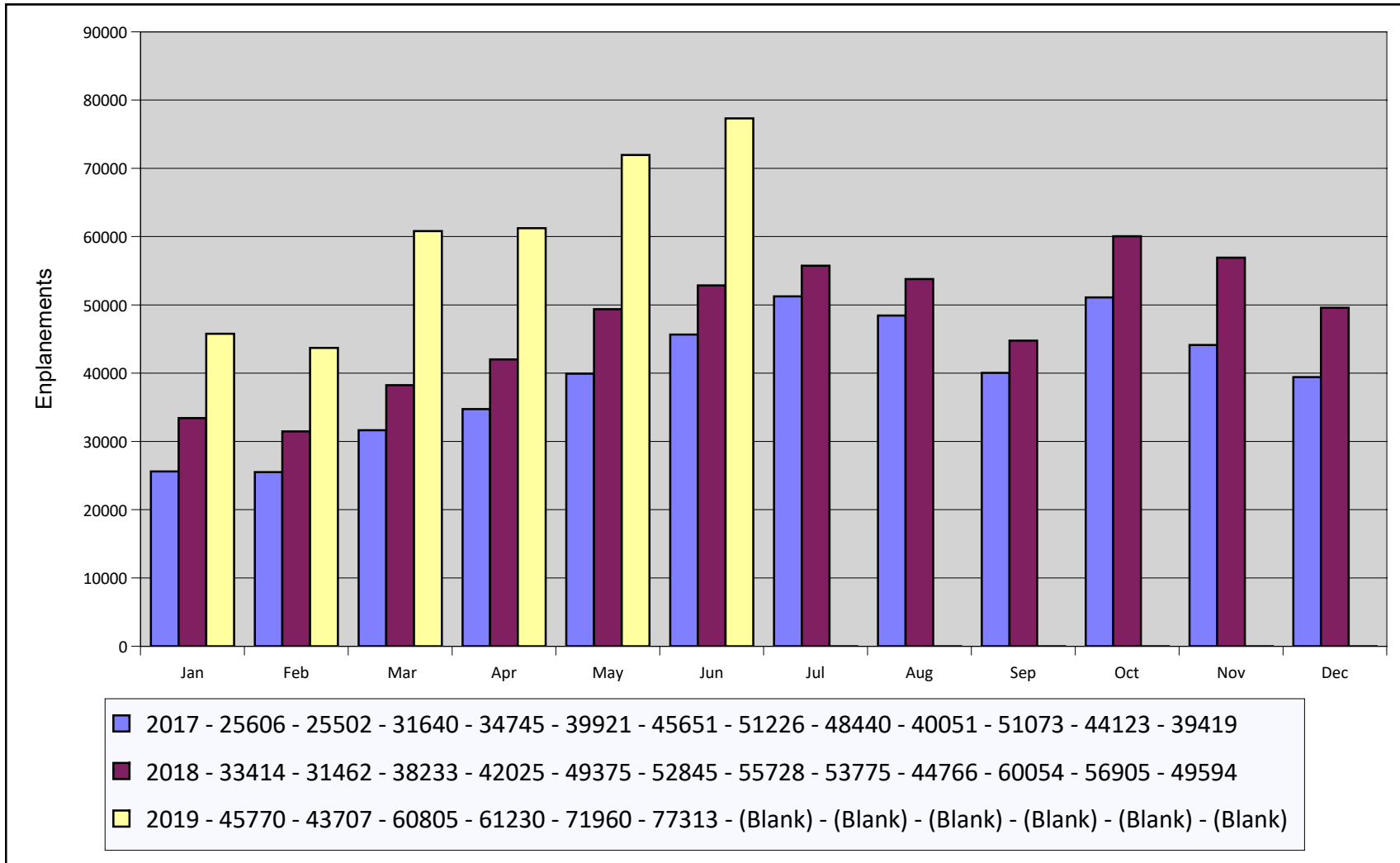
Airline Flight Completions Asheville Regional Airport

June 2019

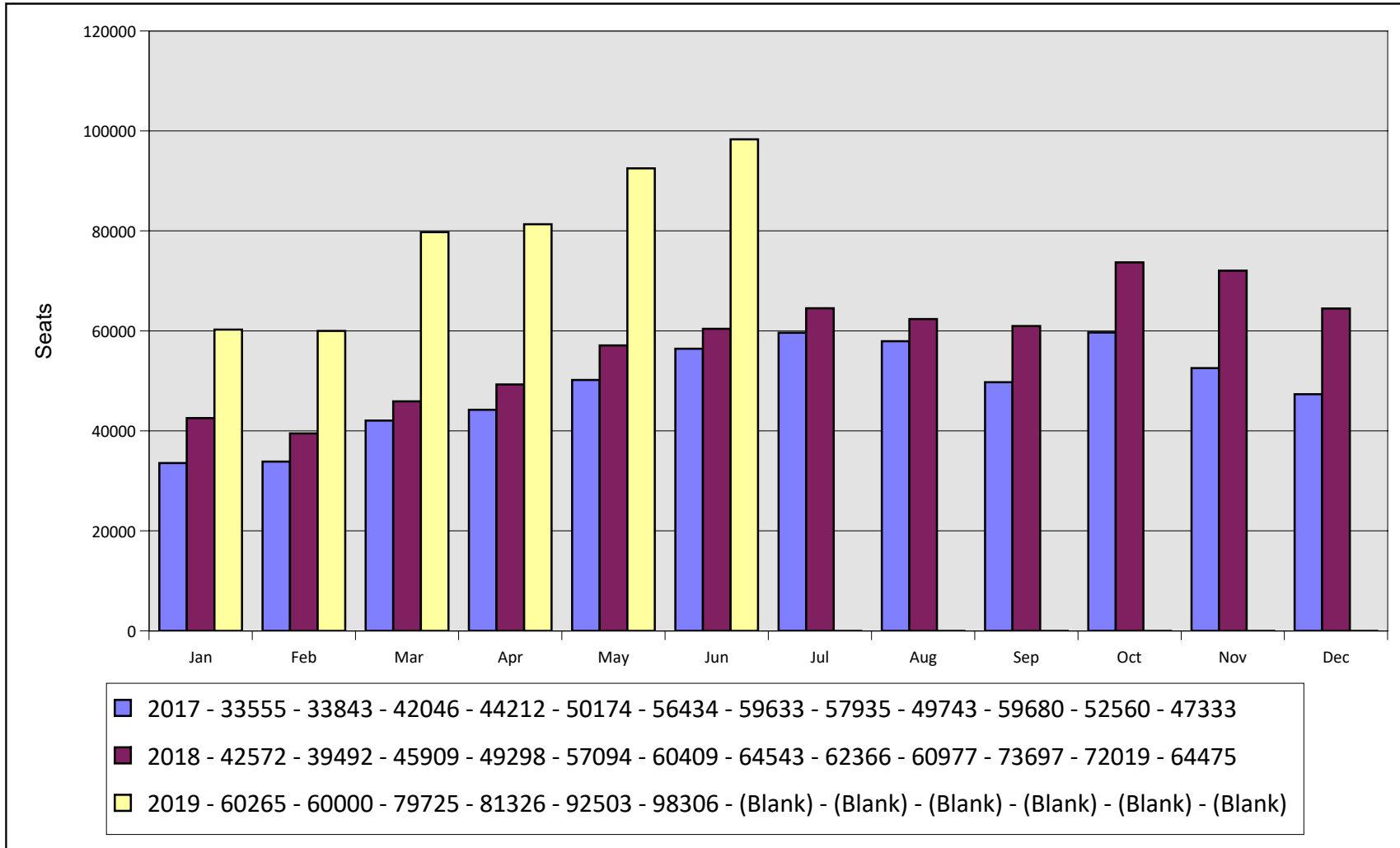


Airline	Scheduled Flights	Field	Cancellations Due To			Total Cancellations	Percentage of Completed Flights
			Mechanical	Weather	Other		
Allegiant Air	224	0	0	0	0	0	100.0%
American Airlines	305	0	0	10	0	10	96.7%
Delta Air Lines	232	0	0	0	0	0	100.0%
Elite Airways	9	0	0	0	0	0	100.0%
Spirit Airlines	47	0	0	0	0	0	100.0%
United Airlines	213	0	1	1	0	2	99.1%
Total	1,030	0	1	11	0	12	98.8%

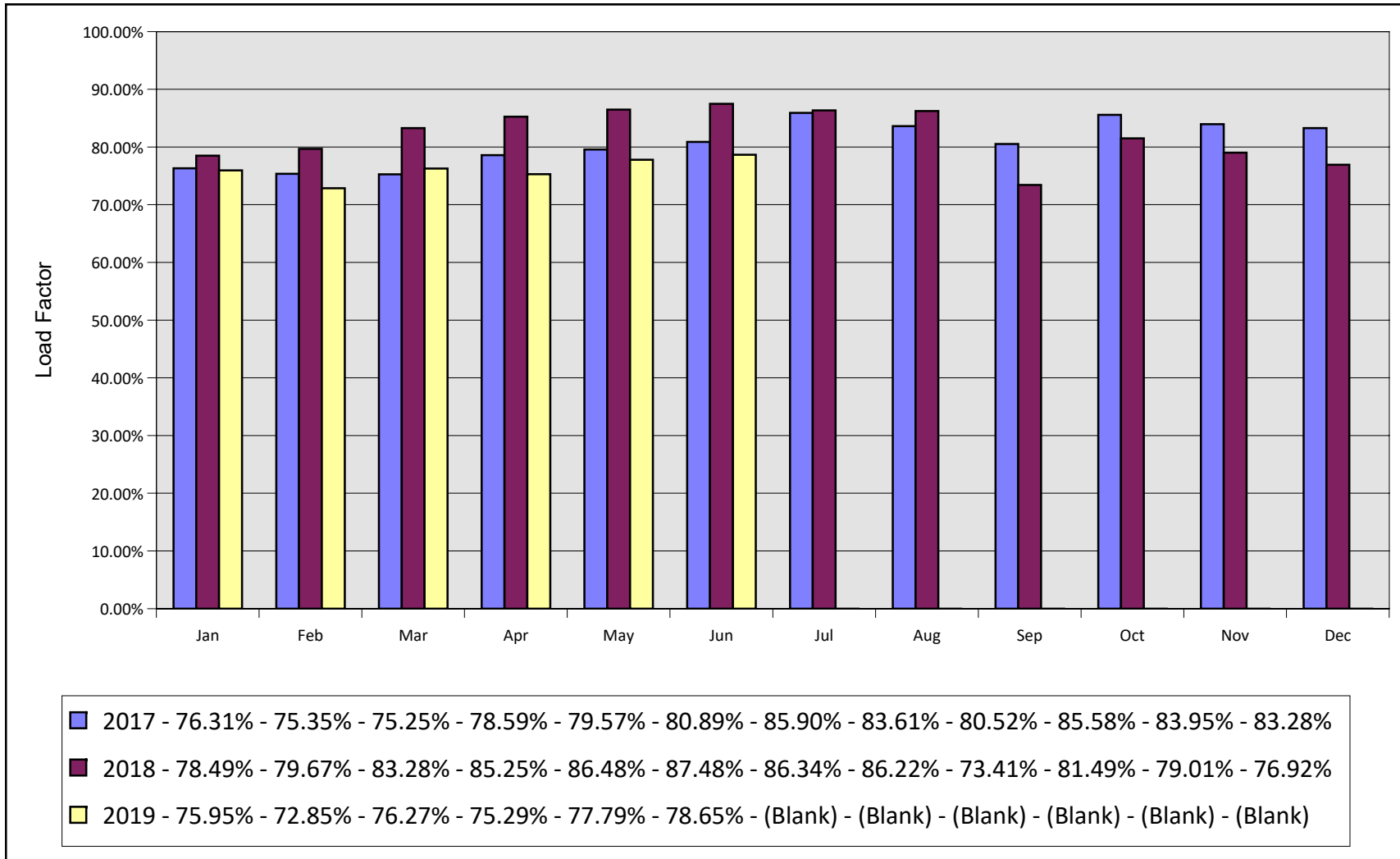
Monthly Enplanements By Year Asheville Regional Airport



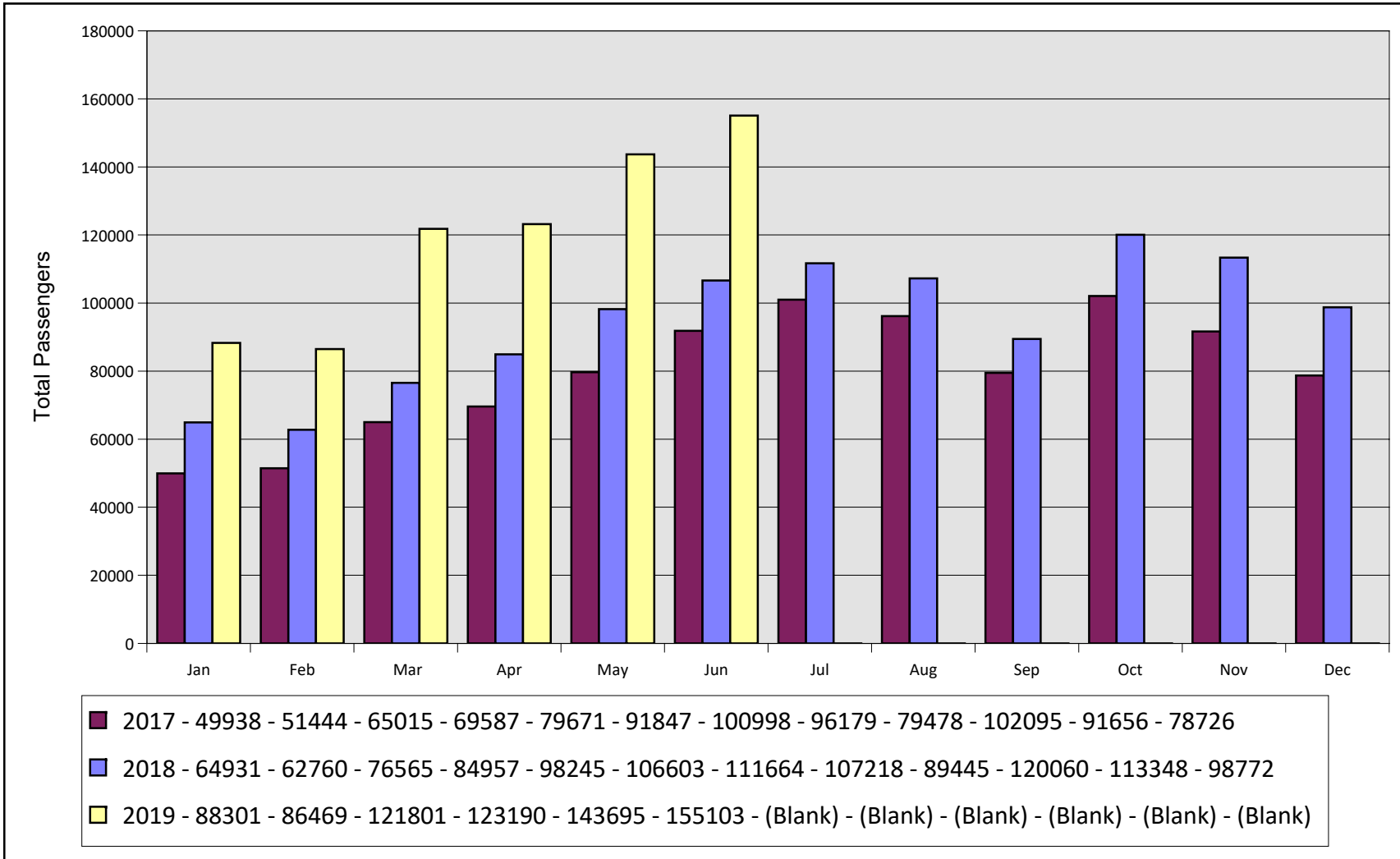
Monthly Seats By Year Asheville Regional Airport



Monthly Load Factors By Year Asheville Regional Airport

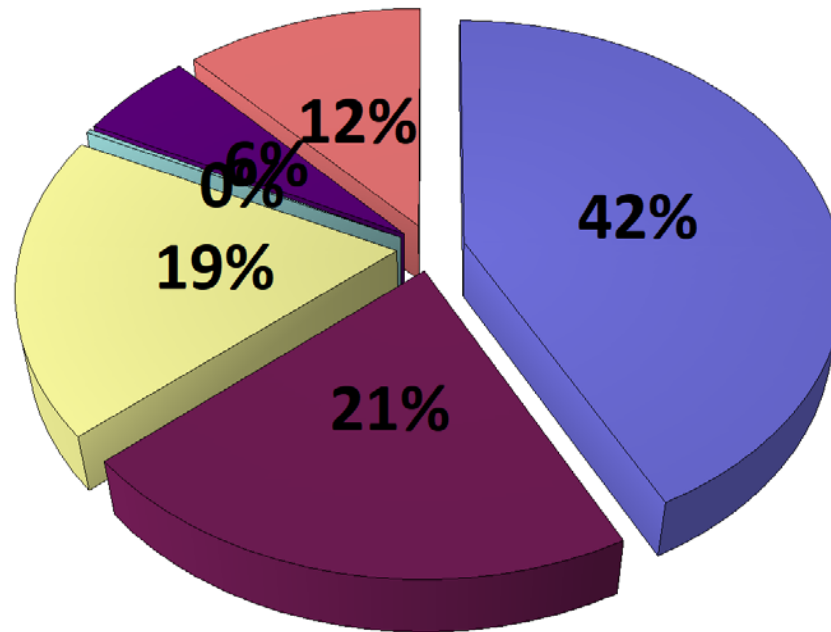


Total Monthly Passengers By Year Asheville Regional Airport



Airline Market Share Analysis (Enplanements) Asheville Regional Airport

Report Period From June 2019 Through June 2019



 Allegiant Air	 American Airlines
 Delta Air Lines	 Elite Airways
 Spirit Airlines	 United Airlines

September 2019 vs. September 2018

Mkt AI	Travel Period		Sep-19		Sep-18		Diff		Percent Diff	
	Orig	Dest	Ops/Week	Seats	Ops/Week	Seats	Ops/Week	Seats	Ops/Week	Seats
7Q	AVL	VRB	0	0	2	100	(2)	(100)	(100.0%)	(100.0%)
7Q	VRB	AVL	0	0	2	100	(2)	(100)	(100.0%)	(100.0%)
AA	AVL	CLT	55	3,778	55	3,556	0	222	0.0%	6.2%
AA	CLT	AVL	55	3,778	55	3,556	0	222	0.0%	6.2%
AA	AVL	DFW	7	532	0	0	7	532		
AA	DFW	AVL	7	532	0	0	7	532		
AA	AVL	LGA	2	152	0	0	2	152		
AA	LGA	AVL	2	152	0	0	2	152		
AA	AVL	PHL	7	350	0	0	7	350		
AA	PHL	AVL	7	350	0	0	7	350		
DL	ATL	AVL	46	3,972	46	3,740	0	232	0.0%	6.2%
DL	AVL	ATL	46	3,972	46	3,781	0	191	0.0%	5.1%
DL	AVL	DTW	1	50	0	0	1	50	-	-
DL	DTW	AVL	1	50	0	0	1	50	-	-
G4	AVL	BWI	2	372	2	354	0	18	0.0%	5.1%
G4	BWI	AVL	2	372	2	354	0	18	0.0%	5.1%
G4	AVL	DEN	2	372	0	0	2	372		
G4	DEN	AVL	2	372	0	0	2	372		
G4	AVL	EWR	4	744	2	354	2	390	100.0%	110.2%
G4	EWR	AVL	4	744	2	354	2	390	100.0%	110.2%
G4	AVL	FLL	14	2,523	6	1,062	8	1,461	133.0%	137.6%
G4	FLL	AVL	14	2,523	6	1,062	8	1,461	133.0%	137.6%
G4	AVL	PGD	2	354	4	708	(2)	(354)	(50.0%)	(50.0%)
G4	PGD	AVL	2	354	4	708	(2)	(354)	(50.0%)	(50.0%)
G4	AVL	PIE	9	1,629	4	708	5	921	125.0%	130.1%
G4	PIE	AVL	9	1,629	4	708	5	921	125.0%	130.1%
G4	AVL	SFB	5	900	3	509	2	391	66.7%	76.8%
G4	SFB	AVL	5	900	3	509	2	391	66.7%	76.8%
G4	AVL	SRQ	2	372	0	0	2	372		
G4	SRQ	AVL	2	372	0	0	2	372		
NK	AVL	FLL	7	1,015	3	546	4	469	133.0%	85.9%
NK	FLL	AVL	7	1,015	3	546	4	469	133.0%	85.9%
NK	AVL	MCO	3	435	3	546	0	(111)	0.0%	(20.3%)
NK	MCO	AVL	3	435	3	546	0	(111)	0.0%	(20.3%)
NK	AVL	TPA	2	290	2	364	0	(74)	0.0%	(20.3%)
NK	TPA	AVL	2	290	2	364	0	(74)	0.0%	(20.3%)
UA	AVL	EWR	7	350	7	806	0	(456)	0.0%	(56.6%)
UA	EWR	AVL	7	350	7	806	0	(456)	0.0%	(56.6%)
UA	AVL	IAD	14	700	0	0	14	700		
UA	IAD	AVL	14	700	0	0	14	700		
UA	AVL	ORD	28	1,400	28	1,400	0	0	0.0%	0.0%
UA	ORD	AVL	28	1,400	28	1,400	0	0	0.0%	0.0%
Total			438	40,580	334	29,547	104	11,033	31.1%	37.3%

October 2019 vs. October 2018

Travel Period			Oct-19		Oct-18		Diff		Percent Diff	
Mkt AI	Orig	Dest	Ops/Week	Seats	Ops/Week	Seats	Ops/Week	Seats	Ops/Week	Seats
7Q	AVL	VRB	0	0	2	100	(2)	(100)	(100.0%)	(100.0%)
7Q	VRB	AVL	0	0	2	100	(2)	(100)	(100.0%)	(100.0%)
AA	AVL	CLT	55	3,767	51	3,343	4	424	7.8%	12.7%
AA	CLT	AVL	55	3,767	51	3,343	4	424	7.8%	12.7%
AA	AVL	DFW	7	532	0	0	7	532		
AA	DFW	AVL	7	532	0	0	7	532		
AA	AVL	LGA	2	152	0	0	2	152		
AA	LGA	AVL	2	152	0	0	2	152		
AA	AVL	PHL	7	350	0	0	7	350		
AA	PHL	AVL	7	350	0	0	7	350		
DL	ATL	AVL	47	3,723	46	3,440	1	283	2.2%	8.2%
DL	AVL	ATL	47	3,723	46	3,440	1	283	2.2%	8.2%
DL	AVL	DTW	1	50	0	0	1	50	-	-
DL	DTW	AVL	1	50	0	0	1	50	-	-
G4	AVL	BWI	3	558	2	354	1	204	50.0%	57.6%
G4	BWI	AVL	3	558	2	354	1	204	50.0%	57.6%
G4	AVL	DEN	2	372	0	0	2	372		
G4	DEN	AVL	2	372	0	0	2	372		
G4	AVL	EWR	5	930	3	531	2	399	66.7%	75.1%
G4	EWR	AVL	5	930	3	531	2	399	66.7%	75.1%
G4	AVL	FLL	14	2,532	14	2,478	0	54	0.0%	2.2%
G4	FLL	AVL	14	2,532	14	2,478	0	54	0.0%	2.2%
G4	AVL	PGD	5	912	5	885	0	27	0.0%	3.1%
G4	PGD	AVL	5	912	5	885	0	27	0.0%	3.1%
G4	AVL	PIE	12	2,157	9	1,593	3	564	33.3%	35.4%
G4	PIE	AVL	12	2,157	9	1,593	3	564	33.3%	35.4%
G4	AVL	SFB	12	2,082	7	1,184	5	898	71.4%	75.8%
G4	SFB	AVL	12	2,082	7	1,184	5	898	71.4%	75.8%
G4	AVL	SRQ	2	372	0	0	2	372		
G4	SRQ	AVL	2	372	0	0	2	372		
NK	AVL	FLL	7	1,015	3	546	4	469	133.0%	85.9%
NK	FLL	AVL	7	1,015	3	546	4	469	133.0%	85.9%
NK	AVL	MCO	3	435	3	546	0	(111)	0.0%	(20.3%)
NK	MCO	AVL	3	435	3	546	0	(111)	0.0%	(20.3%)
NK	AVL	TPA	2	290	2	364	0	(74)	0.0%	(20.3%)
NK	TPA	AVL	2	290	2	364	0	(74)	0.0%	(20.3%)
UA	AVL	EWR	7	350	7	584	0	(234)	0.0%	(40.1%)
UA	EWR	AVL	7	350	7	584	0	(234)	0.0%	(40.1%)
UA	AVL	IAD	14	700	0	0	14	700		
UA	IAD	AVL	14	700	0	0	14	700		
UA	AVL	ORD	28	1,400	28	1,400	0	0	0.0%	0.0%
UA	ORD	AVL	28	1,400	28	1,400	0	0	0.0%	0.0%
Total			470	45,358	364	34,969	106	10,662	29.1%	30.7%

November 2019 vs. November 2018

Mkt AI	Travel Period		Nov-19		Nov-18		Diff		Percent Diff	
	Orig	Dest	Ops/Week	Seats	Ops/Week	Seats	Ops/Week	Seats	Ops/Week	Seats
AA	AVL	CLT	49	3,155	53	3,639	(4)	(484)	(7.5%)	(13.3%)
AA	CLT	AVL	49	3,155	53	3,639	(4)	(484)	(7.5%)	(13.3%)
AA	AVL	DFW	7	532	0	0	7	532		
AA	DFW	AVL	7	532	0	0	7	532		
AA	AVL	LGA	2	152	0	0	2	152		
AA	LGA	AVL	2	152	0	0	2	152		
AA	AVL	PHL	7	350	0	0	7	350		
AA	PHL	AVL	7	350	0	0	7	350		
DL	ATL	AVL	47	3,567	45	3,442	2	125	4.4%	3.6%
DL	AVL	ATL	47	3,567	45	3,442	2	125	4.4%	3.6%
G4	AVL	BWI	2	372	2	354	0	18	0.0%	5.1%
G4	BWI	AVL	2	372	2	354	0	18	0.0%	5.1%
G4	AVL	DEN	2	372	0	0	2	372		
G4	DEN	AVL	2	372	0	0	2	372		
G4	AVL	EWR	5	930	2	354	3	576	150.0%	162.7%
G4	EWR	AVL	5	930	2	354	3	576	150.0%	162.7%
G4	AVL	FLL	14	2,550	14	2,467	0	83	0.0%	3.4%
G4	FLL	AVL	14	2,550	14	2,467	0	83	0.0%	3.4%
G4	AVL	PGD	4	726	4	708	0	18	0.0%	2.5%
G4	PGD	AVL	4	726	4	708	0	18	0.0%	2.5%
G4	AVL	PIE	10	1,833	6	1,041	4	792	66.7%	76.1%
G4	PIE	AVL	10	1,833	6	1,041	4	792	66.7%	76.1%
G4	AVL	SFB	12	2,133	7	1,228	5	905	71.4%	73.7%
G4	SFB	AVL	12	2,133	7	1,228	5	905	71.4%	73.7%
G4	AVL	SRQ	2	372	0	0	2	372		
G4	SRQ	AVL	2	372	0	0	2	372		
NK	AVL	FLL	7	1,089	4	728	3	361	75.0%	49.6%
NK	FLL	AVL	7	1,089	4	728	3	361	75.0%	49.6%
NK	AVL	MCO	3	509	4	728	(1)	(219)	(25.0%)	(30.1%)
NK	MCO	AVL	3	509	4	728	(1)	(219)	(25.0%)	(30.1%)
NK	AVL	TPA	2	364	3	546	(1)	(182)	(33.3%)	(33.3%)
NK	TPA	AVL	2	364	3	546	(1)	(182)	(33.3%)	(33.3%)
UA	AVL	EWR	0	0	7	740	(7)	(740)	(100.0%)	(100.0%)
UA	EWR	AVL	0	0	7	740	(7)	(740)	(100.0%)	(100.0%)
UA	AVL	IAD	14	700	0	0	14	700		
UA	IAD	AVL	14	700	0	0	14	700		
UA	AVL	ORD	21	1,050	21	1,050	0	0	0.0%	0.0%
UA	ORD	AVL	21	1,050	21	1,050	0	0	0.0%	0.0%
Total			420	41,512	344	34,050	76	7,462	22.1%	21.9%



MEMORANDUM

TO: Members of the Airport Authority

FROM: Janet Burnette, Director of Finance & Accounting

DATE: August 9, 2019

ITEM DESCRIPTION – Information Section Item B

Greater Asheville Regional Airport – Explanation of Extraordinary Variances
Month of June 2019

SUMMARY

Operating Revenues for the month of May were \$1,388,974. Operating Expenses for the month were \$1,480,804. As a result, Net Operating Revenues before Depreciation were (\$91,830). Net Non-Operating Revenues were \$516,492.

Operating Expenses for June were higher than expected primarily due to the repair costs of \$166k for one of the ARFF trucks and the \$295k incentive payments to Spirit Airlines.

Year-to-date Operating Revenues were \$14,640,955, 133.4% of annual budget. Year-to-date Operating Expenses were \$8,716,349, 85.3% of annual budget. Year-to-date Net Operating Revenues before Depreciation were \$5,924,606. Net Non-Operating Revenues for the year were \$4,243,487, 150.0% of annual budget.

STATEMENT OF NET ASSETS

Significant variations to prior month were:

Cash and Cash Equivalents – Cash and Cash Equivalents decreased by \$2,500k mainly due to expenditures for the Airfield Redevelopment Project.

Grants Receivable – Grants Receivable increased by \$4,074k due to the Airfield Redevelopment project.

Information Section – Item B



Construction in Progress – Construction in Progress increased by \$5,412k primarily due to expenditures for Airfield Redevelopment project.

Property and Equipment, Net – Property and Equipment, Net decreased by \$387k due to depreciation.

**ASHEVILLE REGIONAL AIRPORT
INVESTMENT AND INTEREST INCOME SUMMARY
As of June 30, 2019**

<u>Institution:</u>	<u>Interest Rate</u>	<u>Investment Amount</u>	<u>Monthly Interest</u>
Bank of America - Operating Account	0.80%	\$ 8,662,857	7,843
First Citizens - Money Market Account	0.35%	404,068	50
NC Capital Management Trust - Cash Portfolio		17,864	33
NC Capital Management Trust - Term Portfolio		9,318,277	17,698
Petty Cash		200	
 <u>Restricted Cash:</u>			
BNY Mellon		1,473,110	
Bank of America - PFC Revenue Account	0.80%	2,183,858	1,405
NC Capital Management Trust - Term Port - PFC		10,170,385	19,316
 Total		 <u>\$ 32,230,619</u>	 <u>\$ 46,345</u>

Investment Diversification:

Banks	39%
NC Capital Management Trust	61%
Commercial Paper	0%
Federal Agencies	0%
US Treasuries	0%
	<u>100%</u>

**ASHEVILLE REGIONAL AIRPORT
STATEMENT OF CHANGES IN FINANCIAL POSITION
For the Month Ended June 30, 2019**

	Current Month	Prior Period
Cash and Investments Beginning of Period	<u>\$ 34,730,778</u>	<u>\$ 36,322,251</u>
Net Income/(Loss) Before Capital Contributions	37,367	792,041
Depreciation	387,295	387,295
Decrease/(Increase) in Receivables	(4,233,753)	(2,295,603)
Increase/(Decrease) in Payables	2,738,200	107,995
Decrease/(Increase) in Prepaid Expenses	(108,773)	17,944
Decrease/(Increase) in Fixed Assets	(5,412,023)	(2,469,306)
Principal Payments of Bond Maturities	-	-
Capital Contributions	4,074,380	1,868,161
Restricted - Forfeiture Funds	17,148	-
Increase(Decrease) in Cash	<u>(2,500,159)</u>	<u>(1,591,473)</u>
Cash and Investments End of Period	<u><u>\$ 32,230,619</u></u>	<u><u>\$ 34,730,778</u></u>

**ASHEVILLE REGIONAL AIRPORT
STATEMENT OF FINANCIAL POSITION
As of June 30, 2019**

	Current Month	Last Month
<u>ASSETS</u>		
Current Assets:		
Unrestricted Net Assets:		
Cash and Cash Equivalents	\$18,403,266	\$21,367,440
Investments	0	0
Accounts Receivable	1,095,166	968,891
Passenger Facility Charges Receivable	575,000	575,000
Refundable Sales Tax Receivable	216,503	183,405
Grants Receivable	9,702,838	5,628,458
Prepaid Expenses	128,745	19,972
Total Unrestricted Assets	30,121,518	28,743,166
Restricted Assets:		
Cash and Cash Equivalents	13,827,353	13,363,338
Total Restricted Assets	13,827,353	13,363,338
Total Current Assets	43,948,871	42,106,504
Noncurrent Assets:		
Construction in Progress	89,682,098	84,270,075
Net Pension Asset - LGERS	(760,162)	(760,162)
Benefit Payment - OPEB	25,682	25,682
Contributions in Current Year	617,323	617,323
Property and Equipment - Net	49,061,289	49,448,584
Total Noncurrent Assets	138,626,230	133,601,502
	\$182,575,101	\$175,708,006
<u>LIABILITIES AND NET ASSETS</u>		
Current Liabilities:		
Payable from Unrestricted Assets:		
Accounts Payable & Accrued Liabilities	\$2,934,889	\$49,938
Customer Deposits	12,785	10,660
Unearned Revenue	592,732	779,625
Construction Contracts Payable	0	0
Construction Contract Retainages	1,933,007	1,933,007
Revenue Bond Payable - Current	1,245,000	1,245,000
Interest Payable	228,099	190,082
Total Payable from Unrestricted Assets	6,946,512	4,208,312
Total Current Liabilities	6,946,512	4,208,312
Noncurrent Liabilities:		
Pension Deferrals - OPED	56,737	56,737
Other Postemployment Benefits	1,248,463	1,248,463
Compensated Absences	359,211	359,211
Net Pension Obligation-LEO Special Separation Allowance	474,558	474,558
Revenue Bond Payable - Noncurrent	17,585,000	17,585,000
Total Noncurrent Liabilities	19,723,969	19,723,969
Total Liabilities	26,670,481	23,932,281
Net Assets:		
Invested in Capital Assets	119,913,387	114,888,659
Restricted	13,827,353	13,363,338
Unrestricted	22,163,880	23,523,728
Total Net Assets	155,904,620	151,775,725
	\$182,575,101	\$175,708,006



Income Statement

Through 06/30/19
Summary Listing

Classification	Annual Budget Amount	MTD Actual Amount	YTD Actual Amount	Budget Less YTD Actual	% of Budget	Prior Year Total Actual
Fund Category Governmental Funds						
Fund Type General Fund						
Fund 10 - General Fund						
<i>Operating revenues</i>						
Terminal space rentals - non airline	247,909.00	23,180.13	239,292.43	8,616.57	97	.00
Terminal space rentals - airline	2,067,331.00	238,465.75	2,362,337.76	(295,006.76)	114	.00
Landing fees	904,038.00	122,365.23	1,159,610.44	(255,572.44)	128	.00
Concessions	490,780.00	104,140.29	722,027.06	(231,247.06)	147	.00
Auto parking	3,600,000.00	554,163.86	5,900,212.88	(2,300,212.88)	164	.00
Rental car - car rentals	1,530,000.00	138,440.26	1,897,328.53	(367,328.53)	124	.00
Rental car - facility rent	647,012.00	53,090.01	663,178.67	(16,166.67)	102	.00
Commerce ground transportation	94,500.00	19,720.00	261,201.78	(166,701.78)	276	.00
FBO's	1,038,185.00	90,720.49	1,071,927.56	(33,742.56)	103	.00
Building leases	73,197.00	19,279.50	84,910.51	(11,713.51)	116	.00
Land leases	59,961.00	5,319.40	55,587.61	4,373.39	93	.00
Other leases and fees	221,800.00	20,089.05	223,340.21	(1,540.21)	101	.00
<i>Operating revenues Totals</i>	\$10,974,713.00	\$1,388,973.97	\$14,640,955.44	(\$3,666,242.44)	133%	\$0.00
<i>Non-operating revenue and expense</i>						
Customer facility charges	1,400,000.00	206,698.75	1,827,347.50	(427,347.50)	131	.00
Passenger facility charges	1,850,000.00	301,465.39	3,009,176.93	(1,159,176.93)	163	.00
Interest revenue	35,000.00	46,344.61	510,562.20	(475,562.20)	1,459	.00
Interest expense	(456,197.00)	(38,016.42)	(456,197.04)	.04	100	.00
Reimbursable cost expenses	.00	.00	(649,919.93)	649,919.93	+++	.00
Gain or loss on disposal of assets	.00	.00	44.85	(44.85)	+++	.00
P-card rebate	.00	.00	2,472.15	(2,472.15)	+++	.00
<i>Non-operating revenue and expense Totals</i>	\$2,828,803.00	\$516,492.33	\$4,243,486.66	(\$1,414,683.66)	150%	\$0.00
Capital contributions	.00	4,074,380.40	11,313,951.06	(11,313,951.06)	+++	.00
<i>Operating expenses</i>						
Personnel services	5,817,003.00	524,636.15	4,963,593.56	853,409.44	85	.00
Professional services	412,450.00	58,452.00	290,160.55	122,289.45	70	.00
Other contractual services	855,723.00	60,014.78	752,970.50	102,752.50	88	.00
Travel and training	201,075.00	20,641.02	185,210.76	15,864.24	92	.00
Communications	62,850.00	28,946.14	79,606.14	(16,756.14)	127	.00
Utility services	525,467.00	69,162.14	454,896.80	70,570.20	87	.00
Rentals and leases	13,600.00	1,078.96	13,597.48	2.52	100	.00
Insurance	234,000.00	18,962.75	259,926.91	(25,926.91)	111	.00
Advertising, printing and binding	8,050.00	798.10	9,744.50	(1,694.50)	121	.00
Promotional activities	317,390.00	59,379.87	303,650.29	13,739.71	96	.00
Other current charges and obligations	54,000.00	4,354.05	60,450.98	(6,450.98)	112	.00
Operating supplies	493,425.00	84,043.69	419,330.82	74,094.18	85	.00



Income Statement

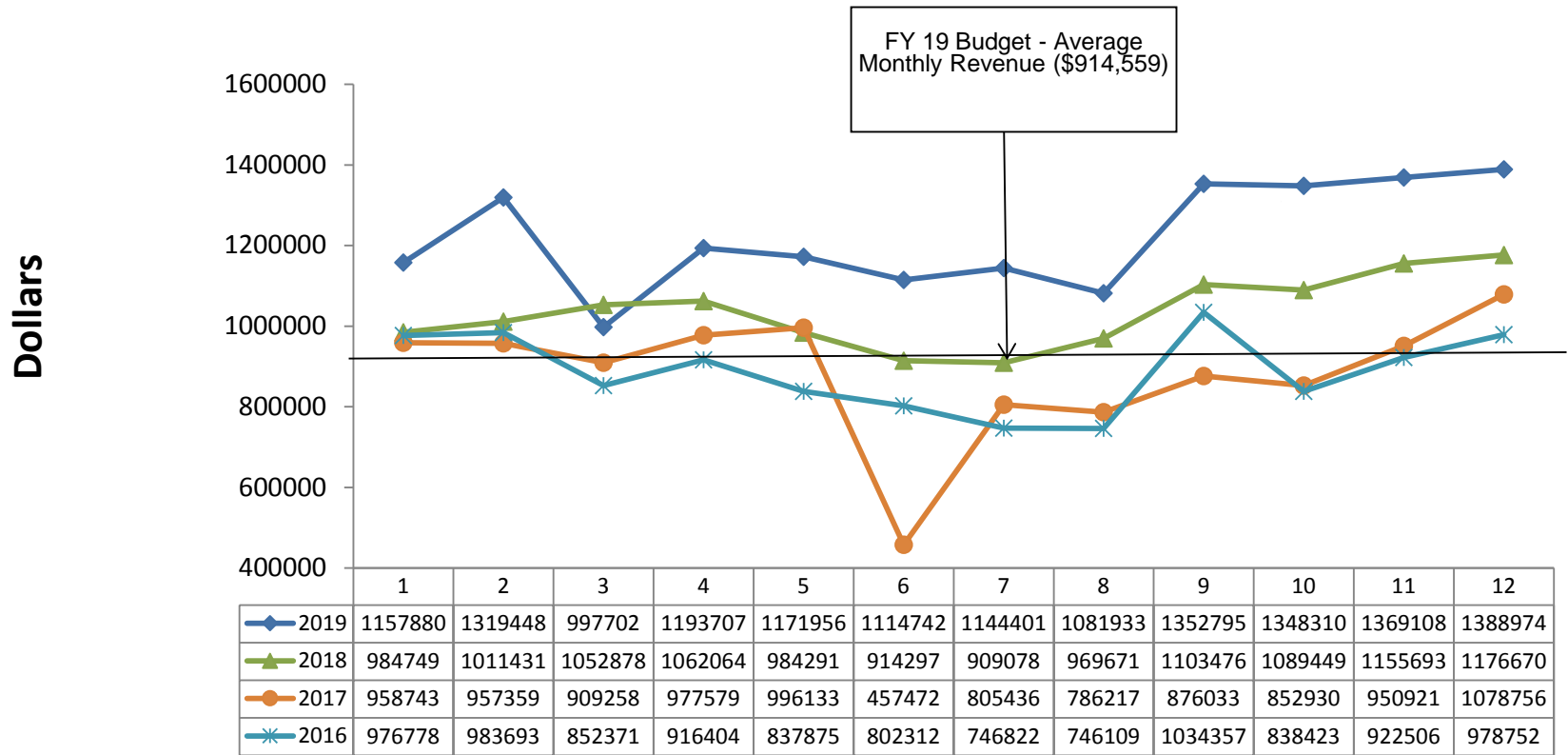
Through 06/30/19
Summary Listing

Classification	Annual Budget Amount	MTD Actual Amount	YTD Actual Amount	Budget Less YTD Actual	% of Budget	Prior Year Total Actual
Fund Category Governmental Funds						
Fund Type General Fund						
Fund 10 - General Fund						
<i>Operating expenses</i>						
Publications, subscriptions, memberships, etc.	54,330.00	1,094.47	50,220.05	4,109.95	92	.00
Repairs and maintenance	181,700.00	23,096.22	193,344.65	(11,644.65)	106	.00
Small equipment	80,500.00	214,474.79	285,175.77	(204,675.77)	354	.00
Contingency	45,000.00	.00	.00	45,000.00	0	.00
Emergency repairs	172,500.00	16,630.66	85,264.58	87,235.42	49	.00
Business development	684,500.00	295,038.61	309,205.11	375,294.89	45	.00
<i>Operating expenses Totals</i>	<u>\$10,213,563.00</u>	<u>\$1,480,804.40</u>	<u>\$8,716,349.45</u>	<u>\$1,497,213.55</u>	85%	\$0.00
<i>Depreciation</i>						
Depreciation	.00	387,295.00	4,647,540.00	(4,647,540.00)	+++	.00
<i>Depreciation Totals</i>	<u>\$0.00</u>	<u>\$387,295.00</u>	<u>\$4,647,540.00</u>	<u>(\$4,647,540.00)</u>	+++	\$0.00
Fund 10 - General Fund Totals						
REVENUE TOTALS	13,803,516.00	5,979,846.70	30,198,393.16	(16,394,877.16)	219%	.00
EXPENSE TOTALS	10,213,563.00	1,868,099.40	13,363,889.45	(3,150,326.45)	131%	.00
Fund 10 - General Fund Net Gain (Loss)	<u>\$3,589,953.00</u>	<u>\$4,111,747.30</u>	<u>\$16,834,503.71</u>	<u>\$13,244,550.71</u>	469%	\$0.00
Fund Type General Fund Totals						
REVENUE TOTALS	13,803,516.00	5,979,846.70	30,198,393.16	(16,394,877.16)	219%	.00
EXPENSE TOTALS	10,213,563.00	1,868,099.40	13,363,889.45	(3,150,326.45)	131%	.00
Fund Type General Fund Net Gain (Loss)	<u>\$3,589,953.00</u>	<u>\$4,111,747.30</u>	<u>\$16,834,503.71</u>	<u>\$13,244,550.71</u>	469%	\$0.00
Fund Category Governmental Funds Totals						
REVENUE TOTALS	13,803,516.00	5,979,846.70	30,198,393.16	(16,394,877.16)	219%	.00
EXPENSE TOTALS	10,213,563.00	1,868,099.40	13,363,889.45	(3,150,326.45)	131%	.00
Fund Category Governmental Funds Net Gain (Loss)	<u>\$3,589,953.00</u>	<u>\$4,111,747.30</u>	<u>\$16,834,503.71</u>	<u>\$13,244,550.71</u>	469%	\$0.00
Grand Totals						
REVENUE TOTALS	13,803,516.00	5,979,846.70	30,198,393.16	(16,394,877.16)	219%	.00
EXPENSE TOTALS	10,213,563.00	1,868,099.40	13,363,889.45	(3,150,326.45)	131%	.00
Grand Total Net Gain (Loss)	<u>\$3,589,953.00</u>	<u>\$4,111,747.30</u>	<u>\$16,834,503.71</u>	<u>\$13,244,550.71</u>	469%	\$0.00

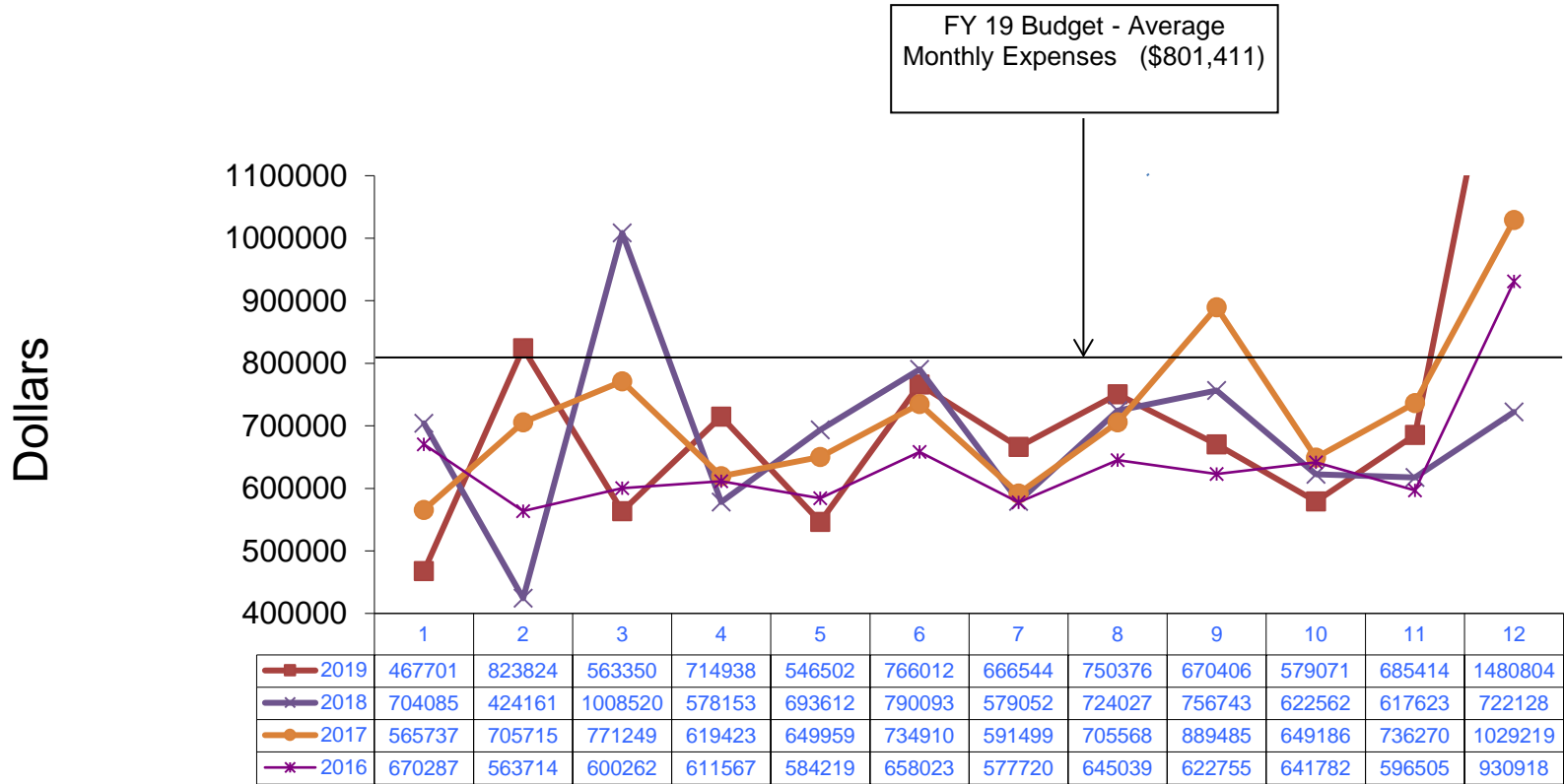
ASHEVILLE REGIONAL AIRPORT

Annual Operating Revenue by Month

June 2019

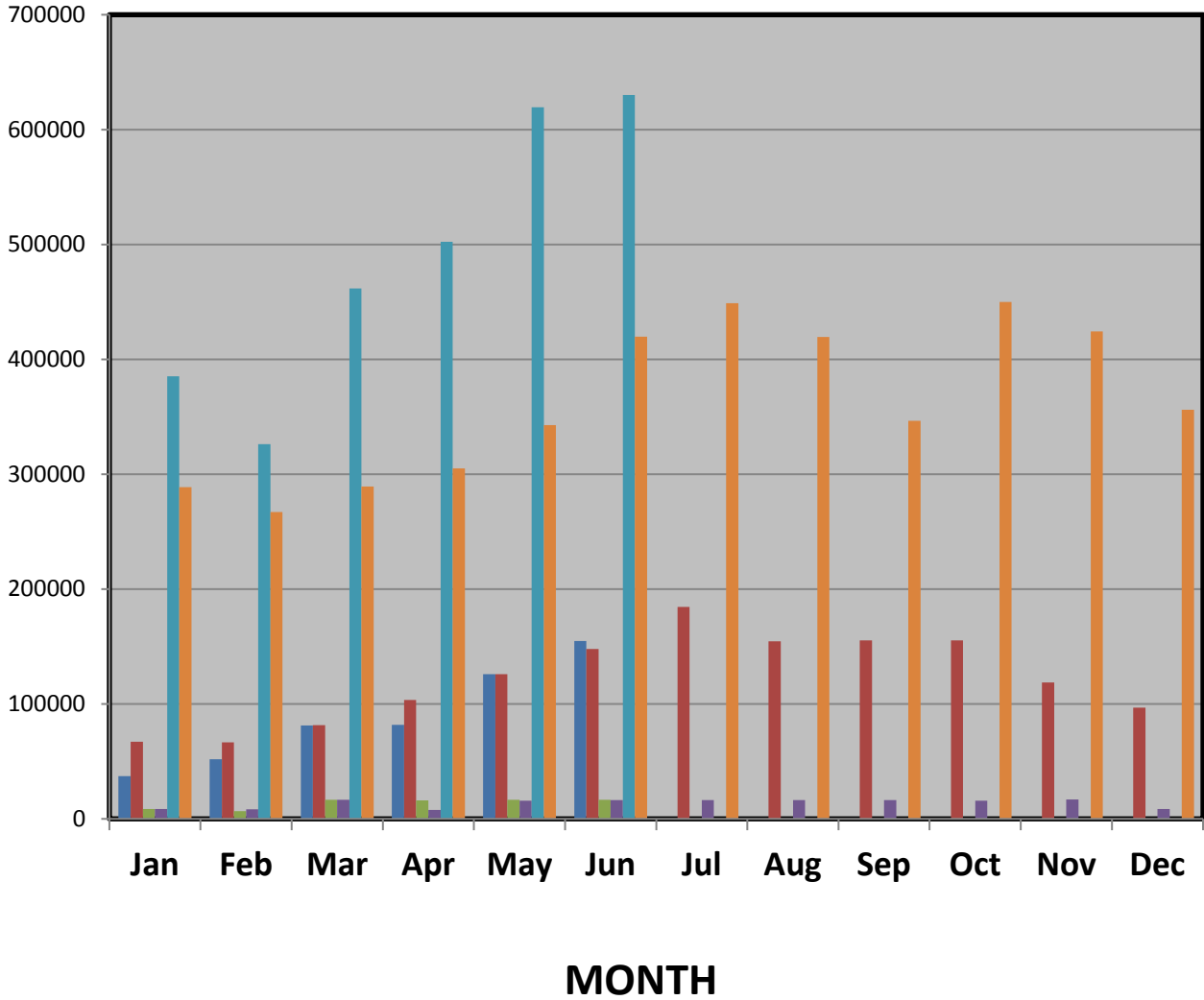


ASHEVILLE REGIONAL AIRPORT Annual Operating Expenses by Month June 2019



**ASHEVILLE REGIONAL AIRPORT
FUEL SALES - GALLONS
June 2019**

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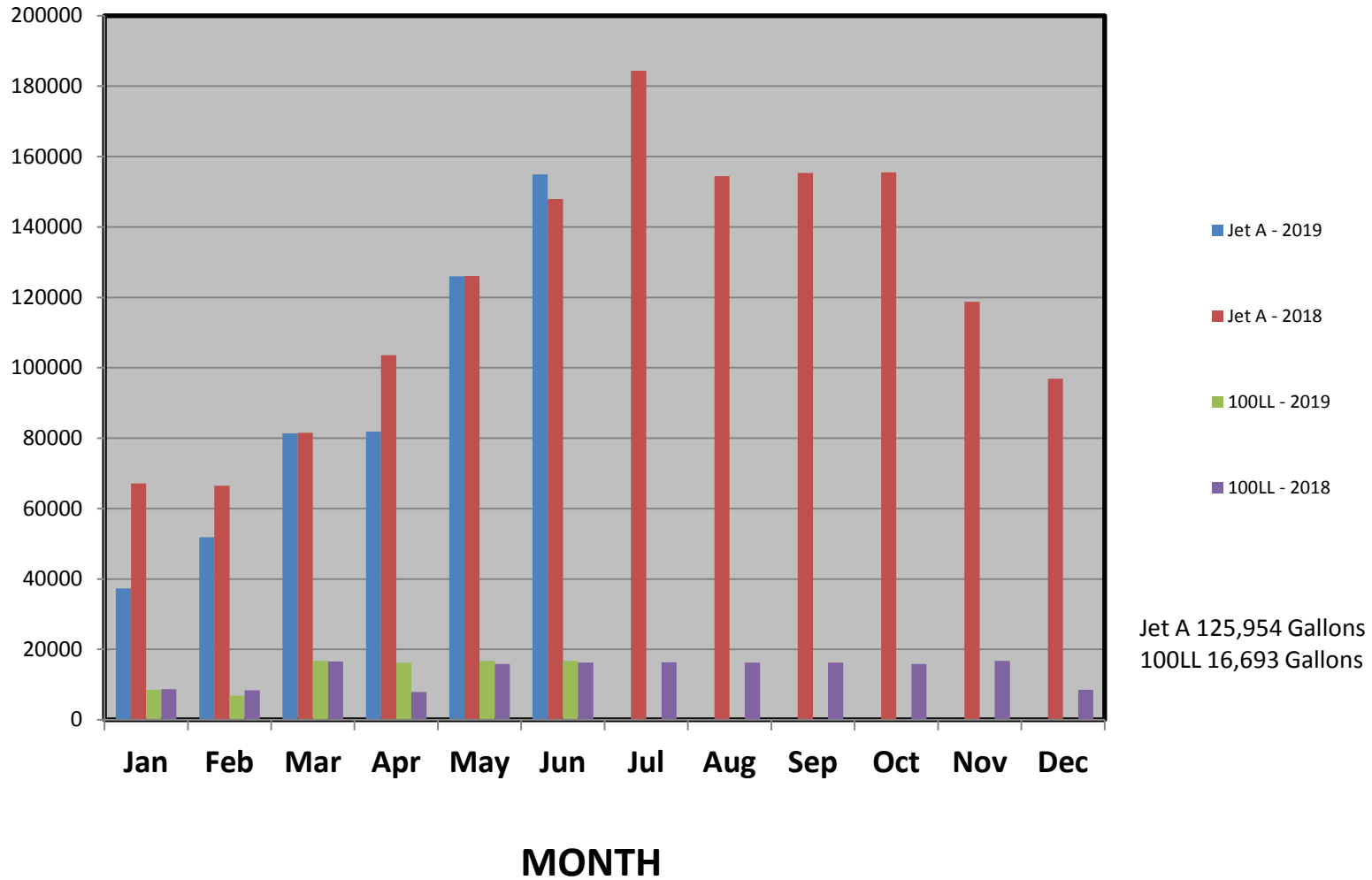


- Jet A - 2019
- Jet A - 2018
- 100LL - 2019
- 100LL - 2018
- Airline - 2019
- Airline - 2018

Jet A 125,954 Gallons
100LL 16,693 Gallons
Airline 619,409 Gallons

**ASHEVILLE REGIONAL AIRPORT
GENERAL AVIATION FUEL SALES - GALLONS
June 2019**

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Design Phase

Project Number	Project Name	Project Description	Professional Services Consultant	Professional Services Contract	General Contractor	Original Construction Contract	Change Orders (thru 08/01/2019)	Percent of Original Contract	Board Approved Project Cost	Percent Complete	Expensed to Date (thru 08/01/2019)	Start Date	End Date	Current Project Status (as of 08/01/2019)
1	Airfield Re-Development Project	Budget for the complete project				\$64,100,000.00	\$15,900,000.00		\$80,000,000.00	82.0%	\$65,662,492			All Engineer contracts, completed construction contracts and expenses will be inclusive of budget.
1A	Airfield Re-Development Project	Phase I - Design Services	RS&H	\$447,983.00	N/A	N/A	\$0.00	0.00%	(Overall total included in above number)	83%	\$372,161	Dec-12	Jun-16	Project Management work primarily complete.
1B	Airfield Re-Development Project	Phase II - Design Services and Project Management.	RS&H	\$1,842,318.00	N/A	N/A	\$0.00	0.00%	(Overall total included in above number)	95%	\$1,748,887	Jun-13	Dec-16	Project Management work continues, pending Contractor resolution.
1C	Airfield Re-Development Project	Phase III and IV - Design Services and Project Management.	RS&H	\$2,399,826.00	N/A	N/A	\$4,417,146.00	65.90%	(Overall total included in above number)	34%	\$2,311,996	Dec-14	Dec-19	Phase IV Project Management continues.
1D	Airfield Re-Development Project	New Runway Design	AVCON	\$1,967,476.00	N/A	N/A	\$185,924.00	4.40%	(Overall total included in above number)	89.7%	\$1,932,146	Mar-13	Dec-19	Phase IV Project Management continues.
1E	Airfield Re-Development Project	Miscellaneous and Administrative Expenses			N/A	N/A	\$0.00	0.0%	(Overall total included in above number)		\$4,042,174	Jan-13	Dec-19	Miscellaneous Administrative Expenses, Reimbursable Agreement and Land Acquisition
2	Airport Security and Identity Management	Security system, ID badging and CCTV camera equipment	Faith Group LLC	\$327,486.27	N/A	N/A	\$0.00	0.0%	\$327,486.27	52.3%	\$171,453.00	Aug-18	Jan-20	Project Management continues.
3	Apron Expansion South	Terminal apron to be expanded and added for aircraft use.	Parrish and Partners	\$821,196.00	N/A	N/A	\$0.00	0.0%	\$0.00	43.2%	\$354,600.00	Nov-18	Nov-19	Bid opening scheduled for end of July.
4	Terminal Building Renovations	Phase 1 - Utility Modernization of Water and Sewer	Gresham Smith	\$168,820.00	N/A	N/A	\$0.00	0.0%	\$168,820.00	30.7%	\$51,930.00	Jan-19	Oct-19	Design complete; awaiting review from City of Asheville and easements.
5	Pipe Repairs	60" Stormwater Pipe repairs in North area of property	Kimley Horn	\$152,700.40	N/A	N/A	\$0.00	0.0%	\$170,840.40	20.0%	\$31,000.00	Apr-19	Aug-19	Design continues.

Construction Phase

Project Number	Project Name	Project Description	Professional Services Consultant	Professional Services Contract	General Contractor	Original Construction Contract	Change Orders (thru 08/01/2019)	Percent of Original Contract	Board Approved Project Cost	Percent Complete	Expensed to Date (thru 08/01/2019)	Start Date	End Date	Current Project Status (as of 08/01/2019)
1	Permanent Runway 17-35 Construction, NAVAIDS and Taxiway Conversion	Construct new runway and convert temporary runway to a taxiway	RS&H and AVCON Inc.	Amount Included in Phase 3 Design Fees	Travelers	\$42,171,424.11	\$0.00	0.0%	\$42,171,424.11	11.0%	\$4,664,062	Mar-17	Dec-19	Paving continues on shoulders and lower lifts of the runway. Electrical work continues.
2	Airport Security & Identity Management System	Replace, Upgrade and Install new Security System	Faith Group	Amount in Design Fees	Johnson Control, Inc.	\$2,197,707.00	\$0.00	0.0%	\$2,605,672.28	0%	\$0.00	May-19	Feb-20	Site review/assessment of doors and hardware have begun. Badge requests submitted.

(Construction and Administrative Costs included)

Airportsurvey.com



AVL

Airport Facilities Review For 2nd Quarter 2019

Welcome

- Welcome to the Airportsurvey.com Airport Facilities Review for the recent quarter, a complimentary data set provided to Airportsurvey.com participating airports
- The following slides provide non-weighted scores and ratings based on an independent survey of air travelers
- Note that passenger responses are based on perception, rather than objective assessment
- Value Added Services available from Canmark include:
 - Report analysis
 - Statistical testing
 - Air carrier responses
 - Non-facility responses
 - Tailored comparison sets
 - Passenger demographics
 - Sample size enhancement
 - Targeted and customized reporting
 - Custom survey questions and content

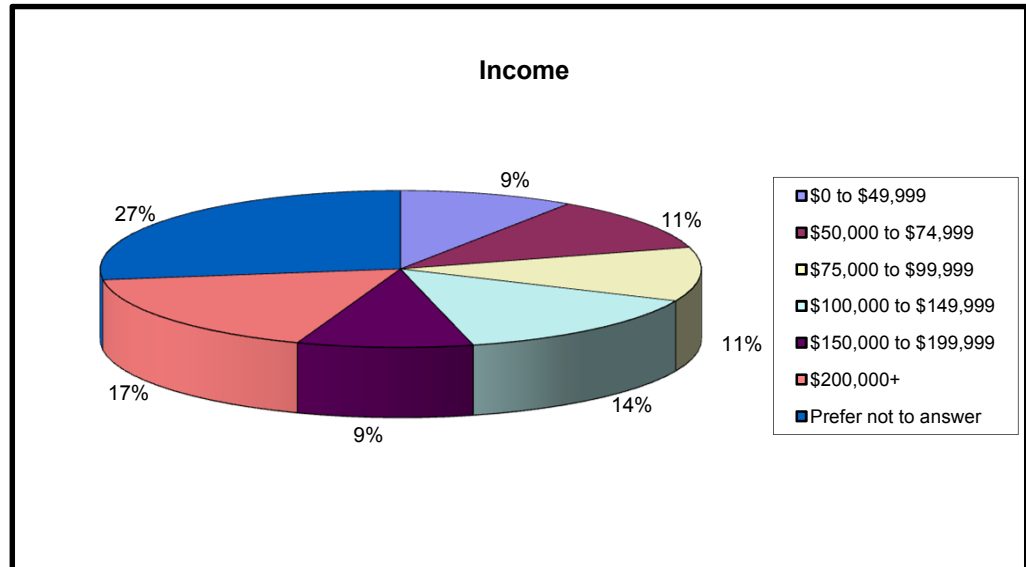
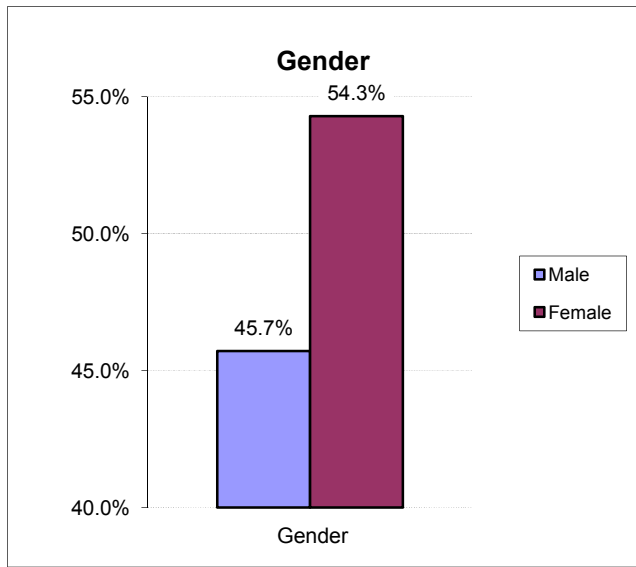
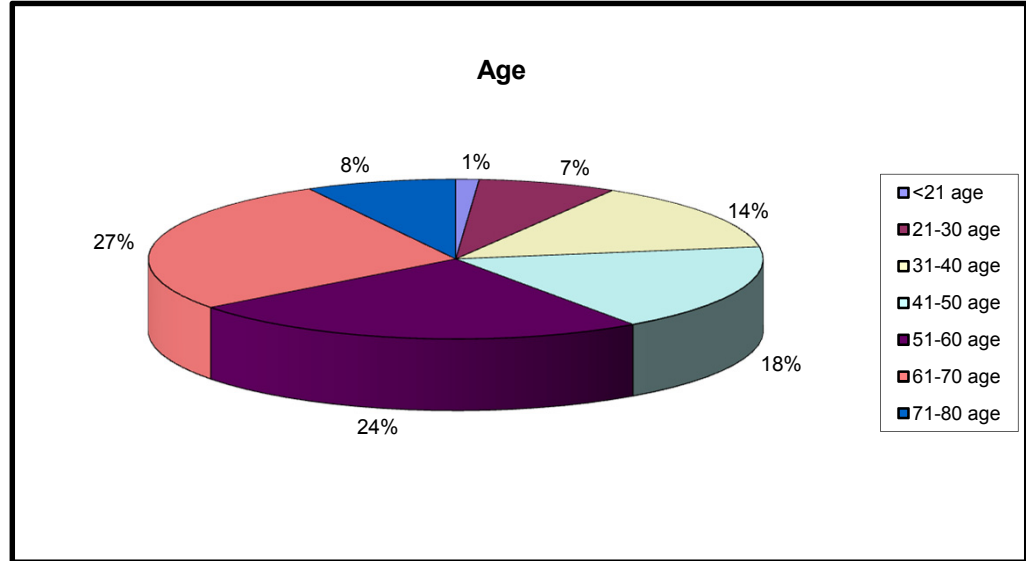
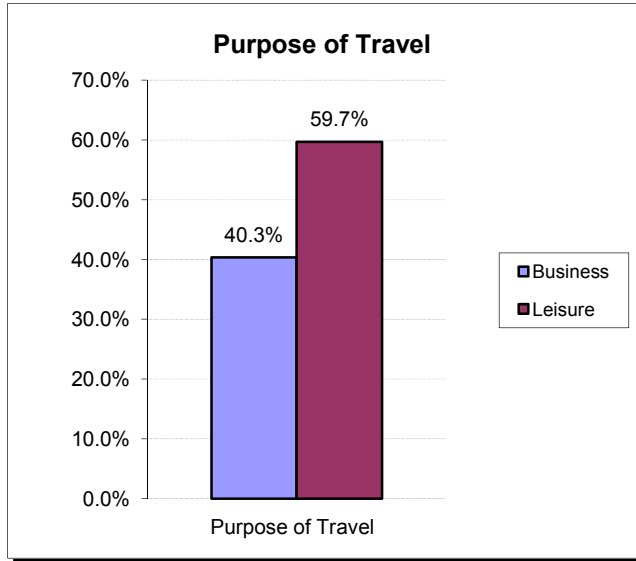
No representations are made as to the completeness or accuracy of information contained herein. Airport facility raw data is available upon request.

Proprietary and Confidential

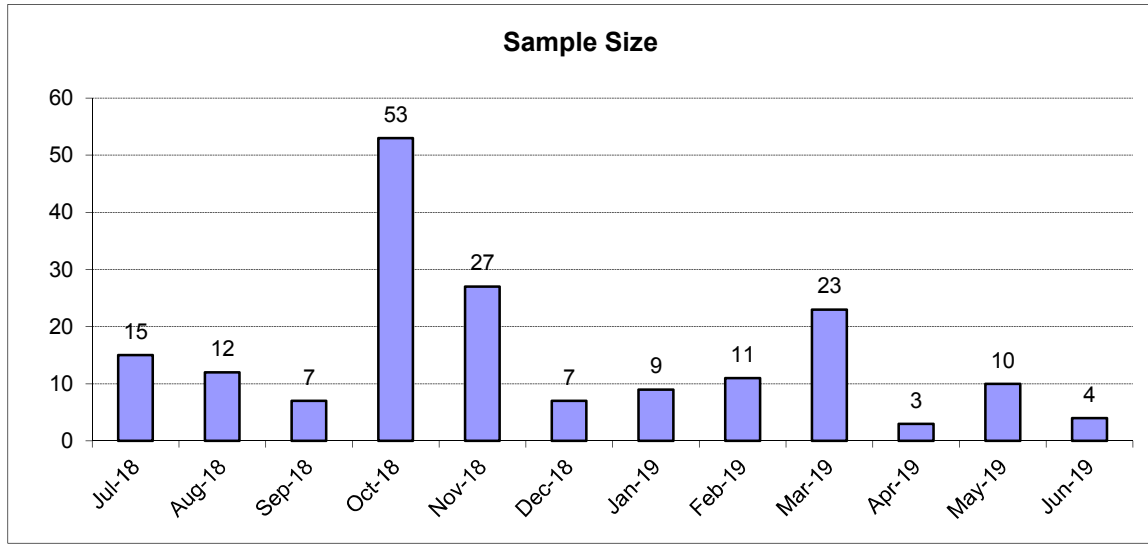
Overview

- ***Airportsurvey.com*** is an ongoing, all-inclusive online passenger satisfaction survey program from Canmark Research Center
- Invitations to take the survey are distributed at select airports across the country
- Over 30 airports participate
- Each survey invitation card is single-use, and must reference an actual flight
- Survey distribution occurs approximately three days per month
- Response scale is 1 through 5: Poor, Fair, Good, Very Good, Excellent
- Survey participants have a chance to win round-trip airline tickets
- Response rates vary from 10% to 20% based on location
- Facilities attributes are scored according to check-in airport
- Airports are grouped into three tiers according to available seats in calendar year 2017

Passenger Demographics



General Findings



Sample is clustered around airport invitation distribution dates.

Sample reflects passengers intercepted at arrival airports who rated check-in airport.

	AVL	Similar	+/-	Pct
Overall	4.16	4.25	(0.09)	-2.2%
Availability of parking	4.15	4.08	0.08	1.8%
Cost of parking	3.46	3.68	(0.22)	-6.4%
Clear, easy to follow signs	4.20	4.26	(0.07)	-1.6%
Cleanliness	4.30	4.32	(0.02)	-0.4%
Availability of restrooms	4.38	4.33	0.04	1.0%
Cleanliness of restrooms	4.30	4.26	0.04	0.8%
Concessions / restaurants	3.34	3.79	(0.45)	-13.5%
Transportation to your gate / concourse / terminal	4.15	4.17	(0.01)	-0.4%
Airport Wi-Fi ease of use	4.11	4.07	0.05	1.1%
Overall airport Wi-Fi	4.06	4.00	0.07	1.6%
Overall departure airport concourse	4.26	4.23	0.04	0.8%
Security: Wait time at checkpoint	4.37	4.26	0.11	2.6%
Security: Professionalism of personnel	4.32	4.37	(0.05)	-1.1%
Security: Confidence in airport security procedures	4.22	4.27	(0.05)	-1.2%

Statistical means testing not performed on results

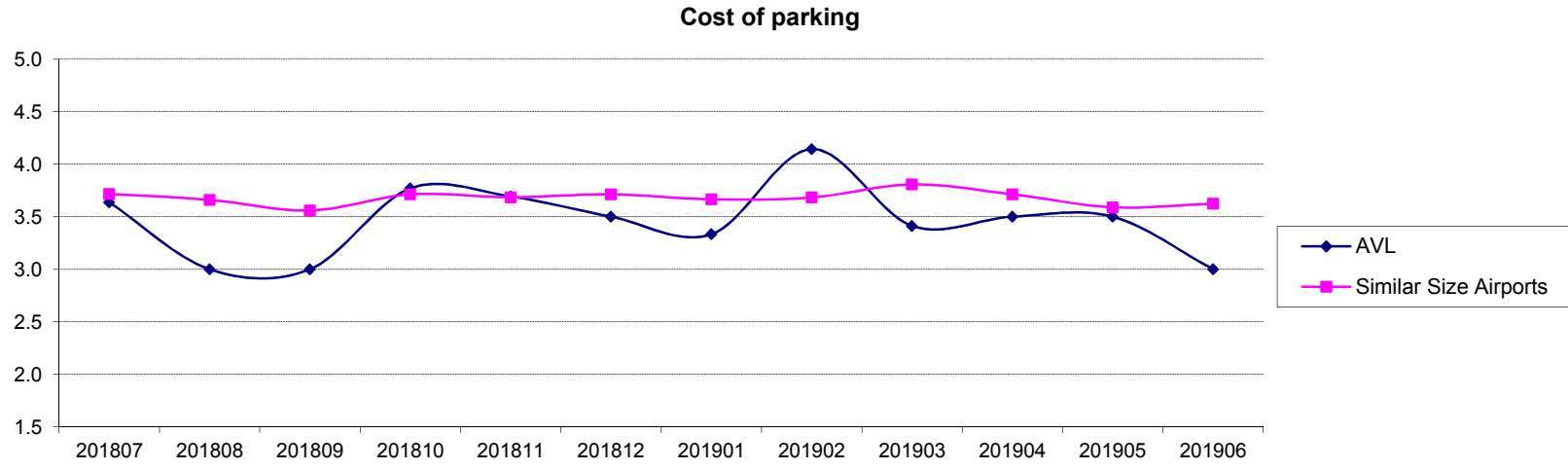
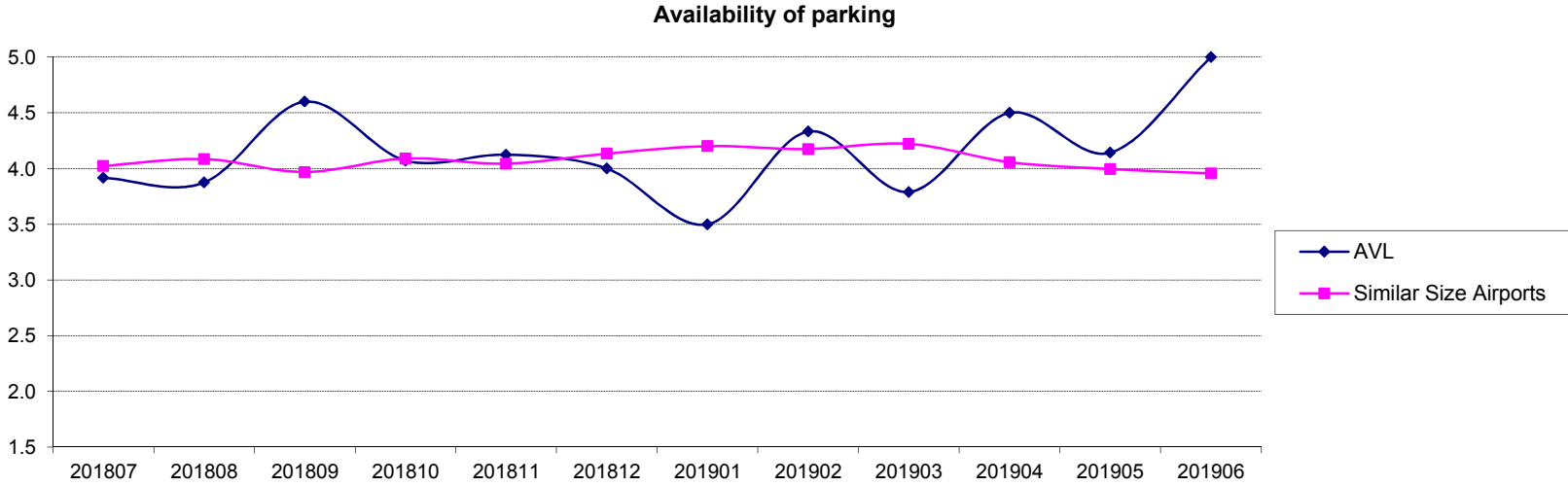
AVL	
Responses	181

Overall Satisfaction with Airport Facilities



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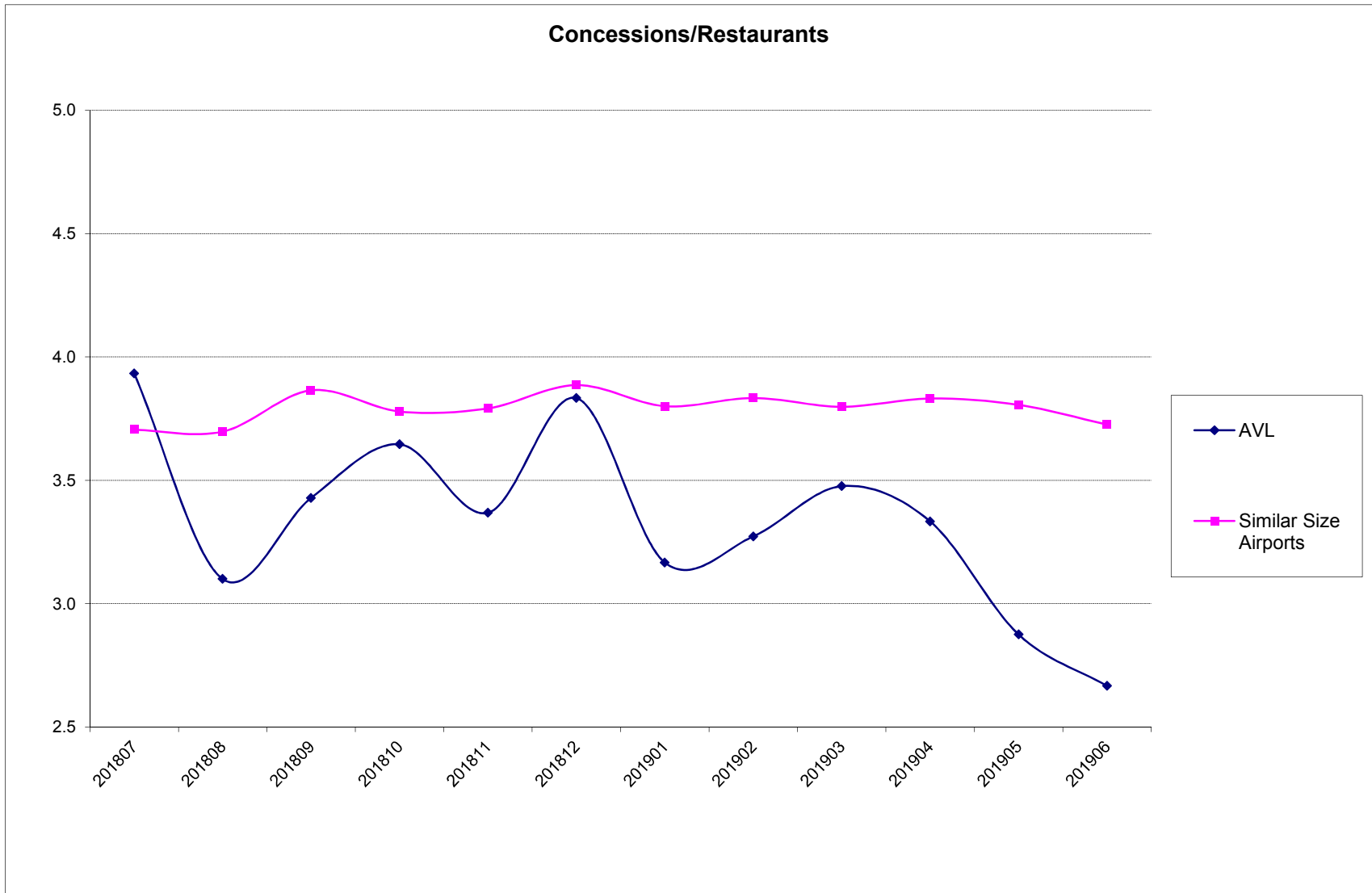
Parking Satisfaction



Cleanliness and Signage

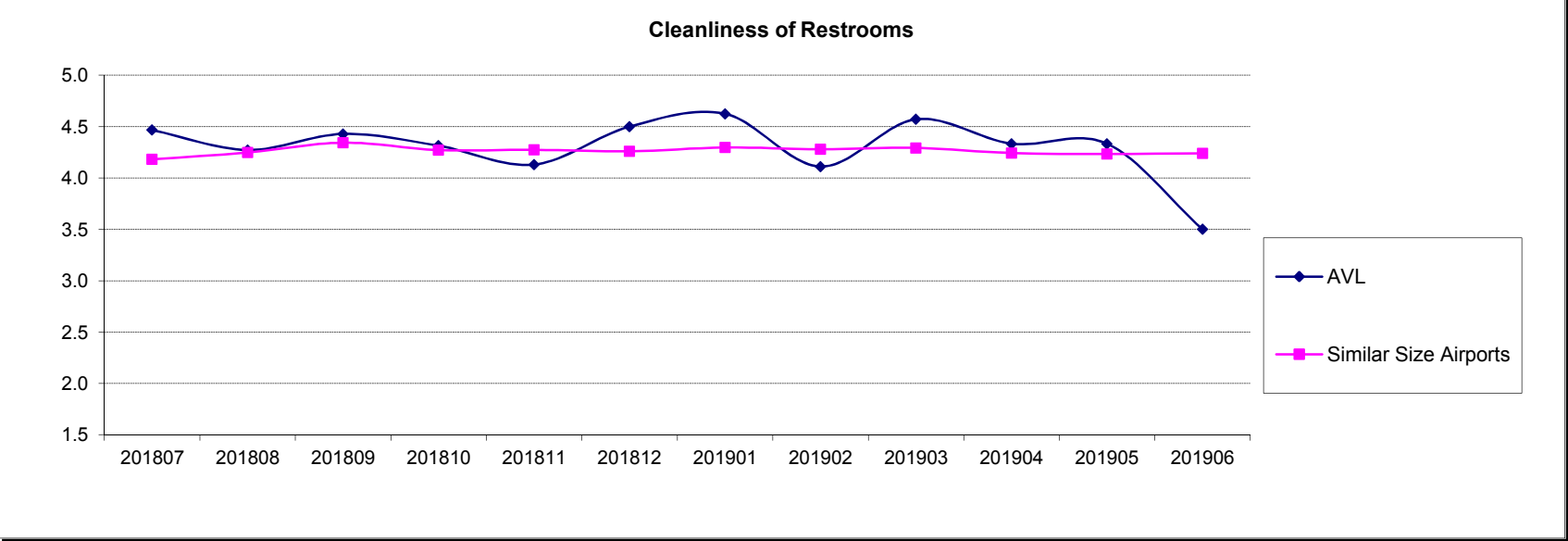
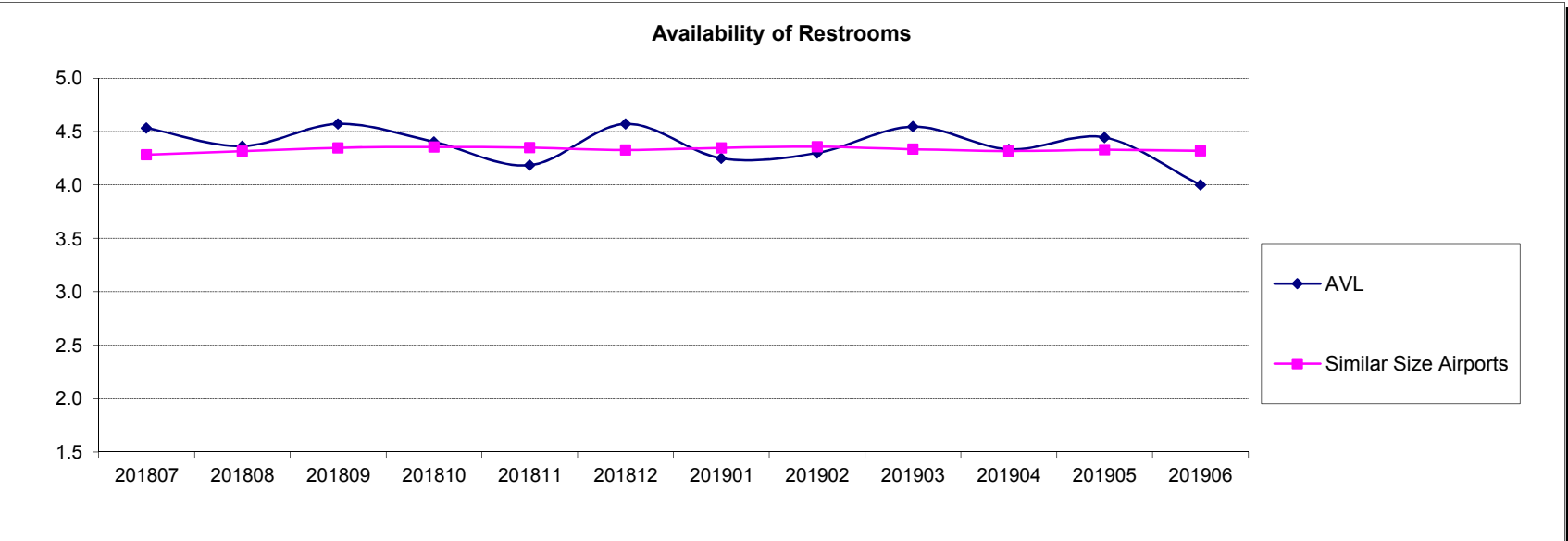


Concessions

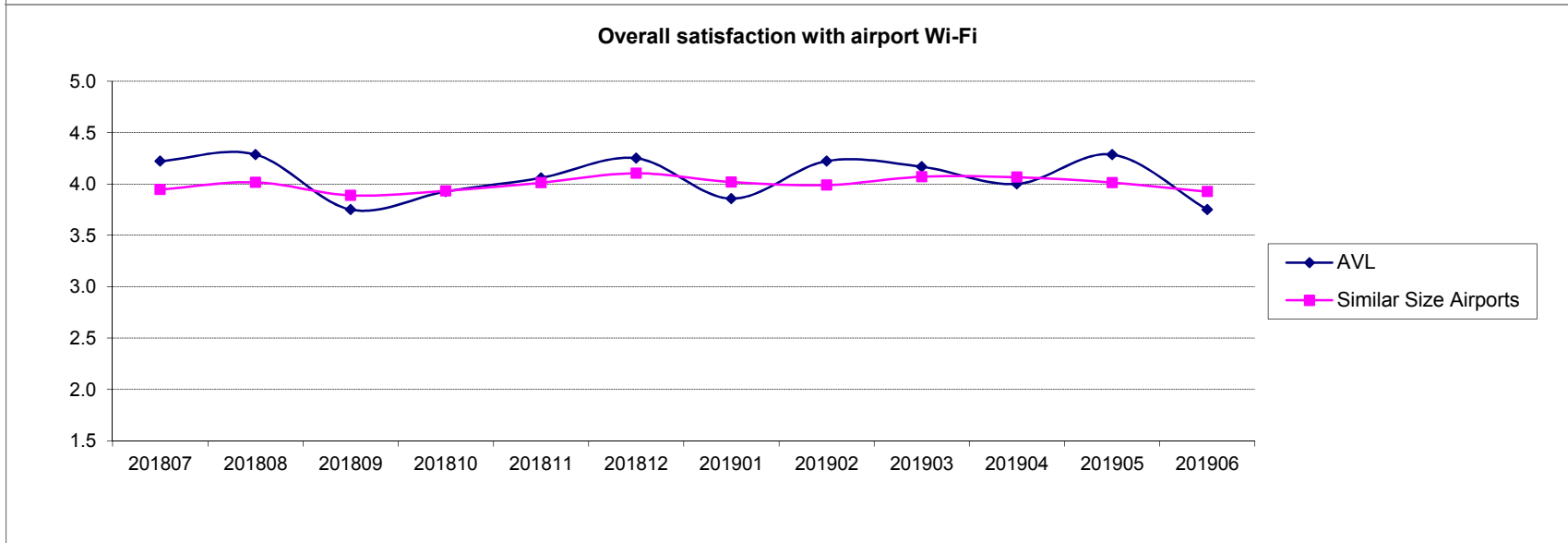
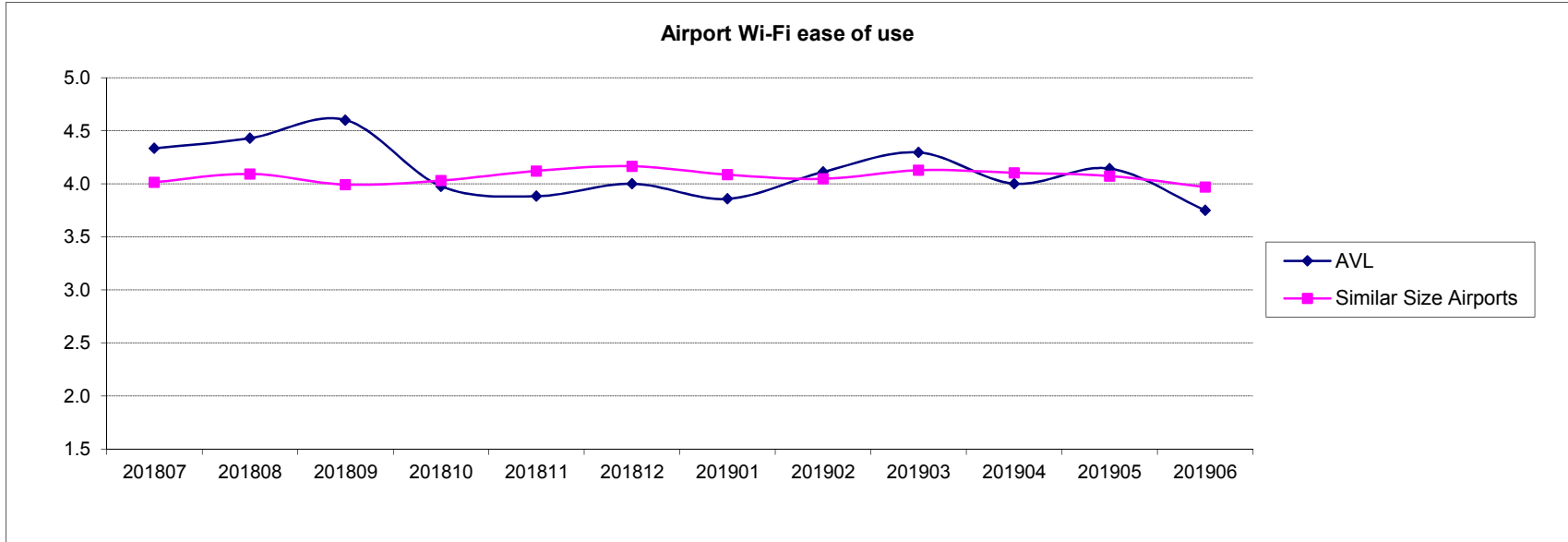


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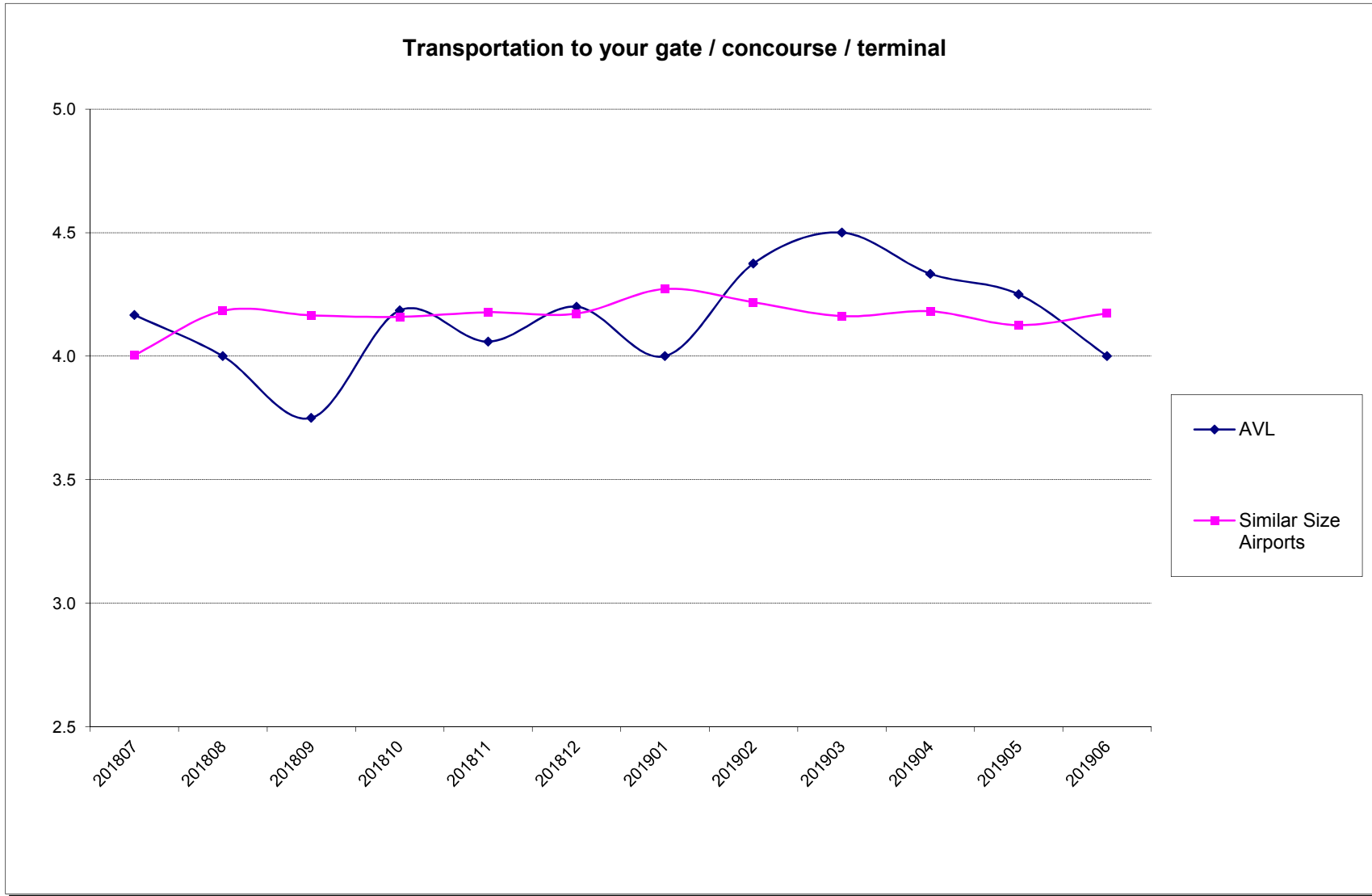
Restrooms



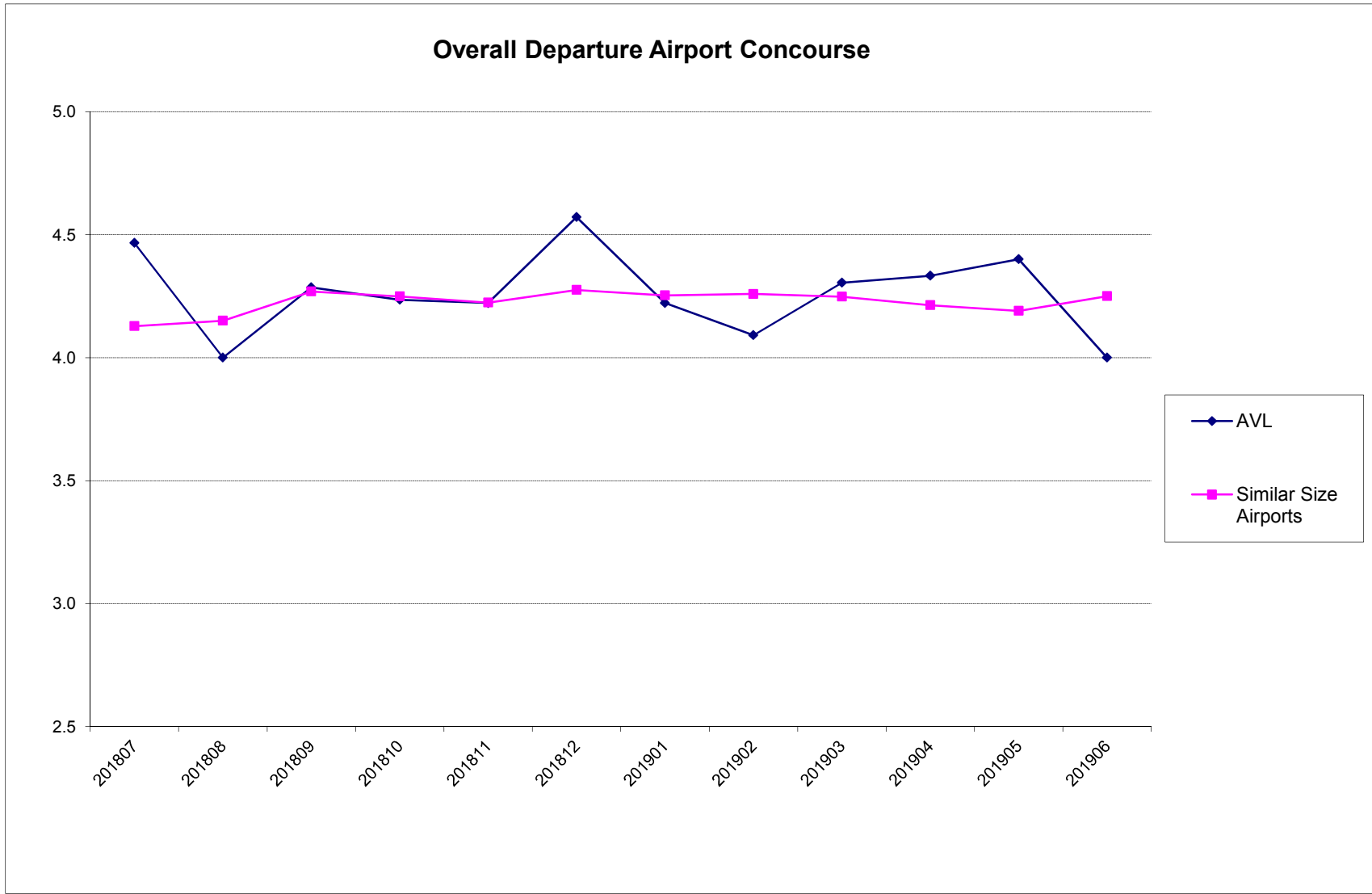
Wi-Fi



Transportation to Departure Gate

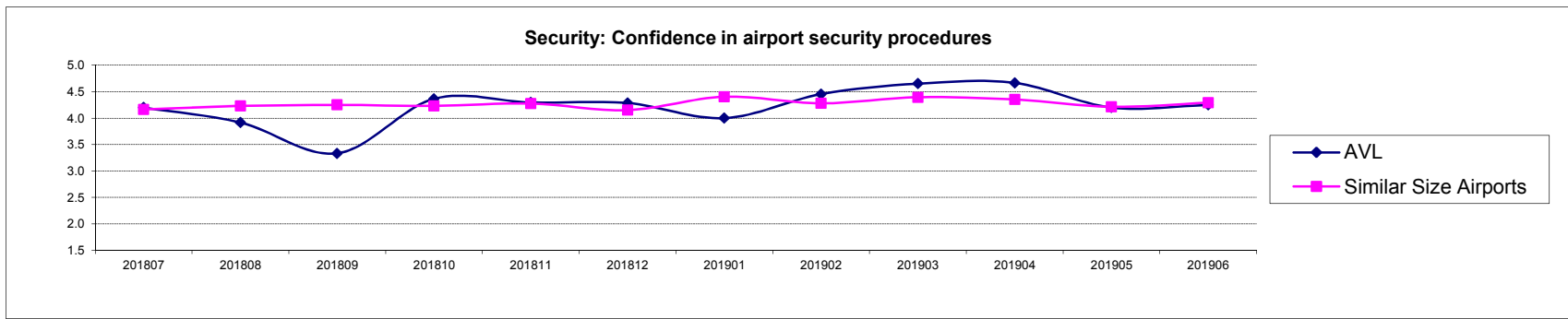
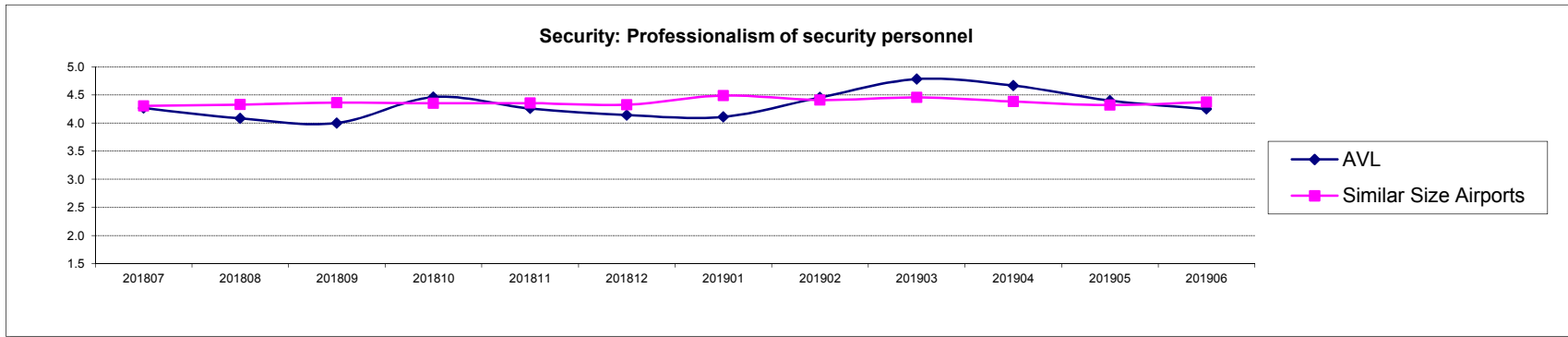
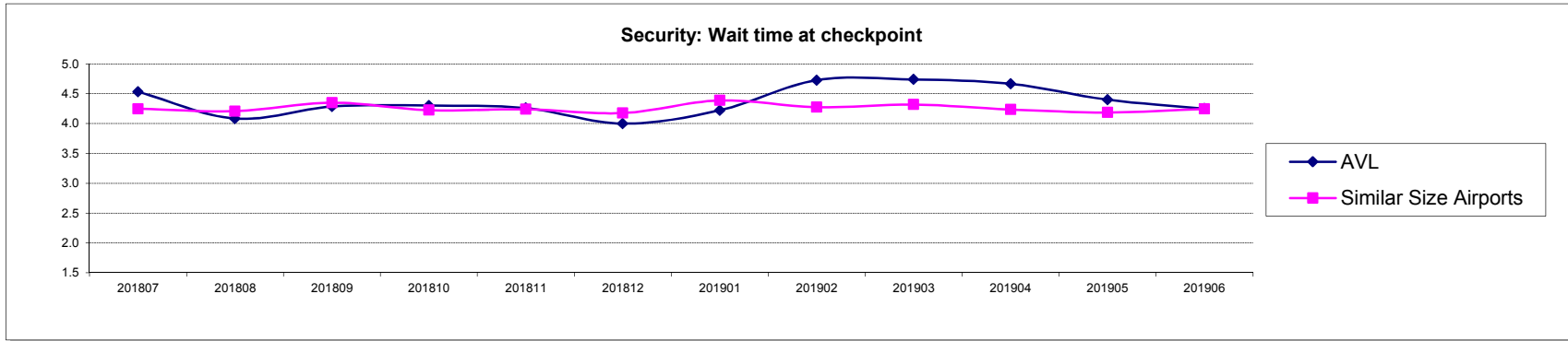


Overall Departure Airport Concourse



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Airport Security



Appendix A - Geographic Breakdown of Respondents

AL	2	EUROPE	1
AZ	2		
CA	6		
CO	1		
CT	2		
FL	15		
GA	4		
IA	4		
ID	1		
IL	2		
KY	1		
MI	3		
MO	2		
MT	3		
NC	93		
NY	1		
OH	1		
OR	7		
PA	1		
TN	3		
TX	2		
VA	3		
WA	5		
WI	3		
WY	1		
CANADA	1		

Note: Only includes passengers who indicated state of residence

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Appendix B - About Canmark

- Since 1993 Canmark Technologies has combined market research, programming, and technical expertise with thoughtful attention to client needs. Our problem-solving orientation has earned the respect of business clients and market researchers across North America.
- With an experienced staff of technical experts and project managers specializing in various fields of data capture and manipulation, programming and software development, web design and scripting, Canmark is able to leverage superior technology and know-how to support projects of all types and scope in the most cost-effective manner possible.
- Areas of expertise include survey development and delivery, project and data management services, requirements gathering, data sampling, paper and web forms management, custom lasering and printing, distribution logistics, data processing, custom programming for data cleansing, reporting and data analysis, and project consulting.
- We stand ready to meet your data needs, if you have any questions, please do not hesitate to contact us.

Appendix C - Contacts

Paul Isaacs, President
pisaacs@canmarktech.com
1-877-441-2057, ext. 11



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Key strategic priorities

Governance vs. Management : Focus on setting governing direction (“guard rails”) for the organizational and holding management accountable for the execution of operational tactics. Pursue continuous educational opportunities for Authority Member development.

1. **Organizational Relevance**: Remaining relevant in an era of airport consolidation
2. **Financial Stewardship**: Sustainability/Operating Performance/Audit & Compliance
3. **Municipal Relations**: Positive relationships with all municipalities surrounding the airport
4. **Stakeholder Relations**: Positive relationships with neighbors and other community organizations
5. **Community Image**: Public Perception/Public Relations/Customer Service/Legal Entity
6. **Facilities Stewardship**: Future Master Facilities Plan
7. **Environmental Stewardship**: Accountability/Awareness of Environmental Issues
8. **Economic Development**: Engage Community Partners/Airline Service Development
9. **Vendor-Partner Relations**: General Aviation/Rental Car Agencies/Vendors
10. **Public Safety**: Airport Emergency Safety/TSA Relations/Municipal Partners
11. **Organizational Accountability**: Executive Director Supervision