

# ENGINEERING & PROJECT MANAGEMENT DIVISION

## MISSION STATEMENT

The mission of the Engineering and Project Management Division is to ensure the successful completion of capital improvement projects through professional planning, design, right-of-way, and construction services.

## DIVISION STRATEGIC PLAN CHANGE INITIATIVES & SCORECARD MEASURES

The Engineering and Project Management Division is responsible for RTA's planning, real estate, and capital project design and construction management activities. The Engineering Division plays a key support role to Asset & Configuration Management in achieving goals for the Vital Few Objective (VFO) to achieve a State of Good Repair (SOGR). Progress and impact are measured by completion of SOGR priorities, and the improvement in the Asset Management Rating of assets.

## 2018 ACCOMPLISHMENTS

- Completed construction of the E. 34th Station Rehabilitation.
- Completed design and began construction for Farnsleigh Station ADA Rehabilitation.
- Completed demolition of WB CRMF Access Bridge over Norfolk Southern.
- Completed construction of repairs to Ambler Bridge
- Completed design for the Light Rail Retaining Wall Rehabilitation - Phase 2.
- Completed design and construction of the Red Line West 117th to West Park Track Rehabilitation.
- Completed West Park NS Diamond Crossing Diamond Removal.
- Completed design for Triskett Garage CNG Upgrades.
- Completed the design for E. 116th Bridge Rehabilitation.
- Completed Signal System Evaluation.
- Completed inspections of the Fracture Critical Bridges.
- Completed design and began construction for the replacement of the Puritas Substation.
- Completed Viaduct Fender Repairs.
- Completed End of Track Device Upgrades at Tower City and Warrensville/Van Aken.
- Completed West Boulevard Station Roadway Repairs.
- Completed Transit Alternatives Analysis of West 25<sup>th</sup> Street Corridor.
- Completed design of Tower City Track 10/Track 13 Rehabilitation with platform, catenary and signal work.
- Continued the replacement of the West 65<sup>th</sup> Substation.
- Continued design for Red Line Fiber Optic Communication System Replacement.
- Began construction of the E.116th Station ADA Rehabilitation.
- Awarded contract for East 116<sup>th</sup> Station Public Art.
- Awarded contracts for Strategic Plan Update and TWE Demonstration Project.
- Completed the sales of the former Harvard and Brooklyn Garage properties.
- Received qualifications for the Columbus Road TOD.
- Supported the activities of the Inter/Urban Phase II project.
- Supported the activities of the Cuyahoga County Trails Leadership Network.
- Provided FFY2019 CUZA funding allocations for the Region.
- Promoted transit elements in various TLCI studies throughout Cuyahoga County.
- Continued supporting the ISO 14001 programs at CBMF, Hayden and Triskett.
- Facilitated construction coordination with various ODOT and City of Cleveland projects.
- Obtained over \$20 million of competitive grants from FTA, ODOT, and NOACA.

## 2019 PRIORITIES

- Complete construction of the E. 116th Street Station ADA Rehabilitation.
- Complete construction for Farnsleigh Station ADA Rehabilitation.
- Complete design and begin the Red Line Fiber Optic Communication System Replacement.
- Complete design and construction of the Red Line West Park to Airport Tunnel Track Rehabilitation.
- Complete the construction of the E. 116th Bridge Rehabilitation.
- Complete replacement of the West 65<sup>th</sup> Substation.
- Complete design and begin construction for the replacement of the Warrensville/Van Aken Substation.
- Complete the design of the East 79<sup>th</sup> Street Red Line Station ADA Rehabilitation.
- Complete Stations and Kiosks along Opportunity Corridor Phase 1.
- Complete the installation of the East 116<sup>th</sup> Station Public Art.
- Complete the installation of the Light Rail System Bonding Renewal.
- Complete the due diligence phase for the Columbus Road TOD.
- Continue replacement of the Puritas Substation.
- Continue Strategic Plan Update to incorporate Pillar Study results.
- Receive bids for the Light Rail Retaining Wall Rehabilitation - Phase 2 construction.
- Begin construction of the Triskett Garage CNG Facility Upgrades.
- Begin installation of the Triskett Garage CNG Fueling and Storage Facility
- Begin the Transit Oriented Development Planning along the West 25<sup>th</sup> Street Corridor.
- Begin construction of Tower City Track 10/Track 13 Rehabilitation with platform, catenary and signal work.
- Begin design of the Tower City East Portal Rehabilitation.
- Begin design for Cuyahoga Viaduct Rehabilitation Phase 1.
- Begin design for the Overhead Catenary System Structural Rehabilitation
- Support the activities of the Cuyahoga County Trails Leadership Network.
- Provide leadership for the Performance Management initiatives of TPE, ISO 14001 and Sustainability programs.
- Provide FFY2020 CUZA funding allocations for the Region.
- Promote transit elements in various TLCI studies throughout Cuyahoga County.
- Continue supporting Asset Management and SOGR initiatives throughout GCRTA.
- Facilitate construction coordination with various ODOT and City of Cleveland projects.
- Obtain competitive grants from FTA, ODOT, and NOACA.

## LIST OF DEPARTMENTS

Department Number	Department Name
55	Project Support
57	Programming & Planning
80	Engineering & Project Development

# PROJECT SUPPORT DEPARTMENT

## MISSION STATEMENT

The mission of the Project Support Department is to provide quality assurance oversight and program review services in support of the Authority's capital and development activities.

## STRATEGIC PLAN CHANGE INITIATIVES & SCORECARD MEASURES

Supporting the Vital Few Objectives (VFOs) for Continual Process Improvement and Fiscal Responsibility. The Project Support Department impacts GCRTA's ability to achieve a State of Good Repair and Advance and Improve Technology, as well as Enhancing Fiscal Responsibility by providing quality and safety oversight and program reviews of projects.

## 2018 ACCOMPLISHMENTS

- Completed 21 Quality Assurance Audits
- Reviewed 4 Quality control Plans, Reports, and Specifications
- Reviewed 28 Third-Party plans
- Conducted 10 field site visits
- Provided engineering design and construction assistance on Engineering and Project Development projects
- Provided document control support on Engineering and Project Development projects
- Progressed the design of the E. 79<sup>th</sup> Street Red Line Station to 30% Completion

## 2019 PRIORITIES

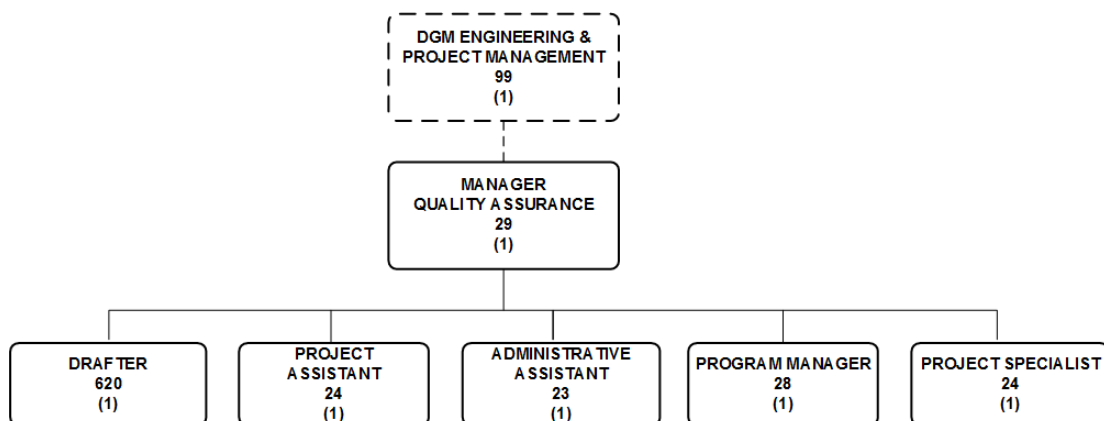
- Conduct quality assurance audits.
- Review GCRTA plans and specifications for construction projects.
- Review third party plans and specifications for construction crossing or adjoining GCRTA facilities.
- Provide engineering assistance as needed in Design and Construction.
- Conduct Field and Manufacturing site visits.
- Coordinate work of support staff.
- Support the authority's ISO 14001 efforts.
- Update Engineering and Project Development's general requirement specifications (division 1)
- Update Construction Management's Procedures Manual
- Update Project Execution Procedures Manual

**PROJECT SUPPORT DEPARTMENT BUDGET**

Obj. Class	Description	2017 Actual	2018 Actual	2019 Amended Budget
501300	Labor – Salaried Employees	253,432	258,606	379,398
501310	Overtime – Salaried Employees	(20.36)	0	10,000
502000	Fringe Benefits	101,939	98,284	145,056
503000	Services	0	0	1,000
503049	Temporary Help	0	0	0
504000	Materials & Supplies	400	857	300
504050	Office Supplies	0	0	0
509000	Miscellaneous Expenses	0	100	1,800
509020	Travel & Conferences	0	0	0
509022	Meals & Concessions	0	0	100
<b>Total:</b>		<b>355,750</b>	<b>357,847</b>	<b>537,654</b>

**PROJECT SUPPORT DEPARTMENT STAFFING**

Grade	Job Name	2016	2017	2018	2019
06	0620 Drafter	1.0	1.0	1.0	1.0
23	0757 Administrative Assistant	1.0	1.0	1.0	1.0
24	0860 Project Assistant	1.0	1.0	1.0	1.0
24	1965 Project Specialist	0.0	0.0	0.0	1.0
28	0888 Program Manager	0.0	0.0	0.0	1.0
29	1439 Mgr. – Quality Assurance	1.0	1.0	1.0	1.0
<b>Total</b>		<b>4.0</b>	<b>4.0</b>	<b>4.0</b>	<b>6.0</b>



# PROGRAMMING & PLANNING DEPARTMENT

## MISSION STATEMENT

The Department of Programming and Planning is responsible for initiating studies and long-term projects designed to maintain and improve transit ridership through project viability studies, joint venture identification, station area, and land use planning. The Department is also responsible for the oversight of the Authority's real estate property holdings, transit waiting environment, arts-in-transit and sustainability programs.

## STRATEGIC PLAN CHANGE INITIATIVES & SCORECARD MEASURES

Supporting the Vital Few Objectives (VFOs) for Voice of Customer (Expanding Advocacy and Enhancing Customer Experience) and Continual Process Improvement (Achieving State of Good Repair and Advance & Improve Technology). The Programming and Planning Department impacts GCRTA's ability to meet goals for advocacy, public art, transportation studies, and receiving competitive grants for the capital improvement program.

## 2018 ACCOMPLISHMENTS

- Contracted for Economic Impact Analysis
- Recommended an Award of Contract for Strategic Plan
- Recommended an Award to Qualified Developer to W. 25<sup>th</sup> Street/Columbus Road Transit Oriented Development Project
- Completed land acquisitions for parcels required for E. 34<sup>th</sup> Street Station Reconstruction Project
- Leased Windermere Coffee Shop
- Completed land sale transactions of Aspen Place, Harvard Garage, and Brooklyn Garage
- Completed CUZA allocation
- Served on NOACA Air Quality, Transit Council, and Planning & Programming Committees.
- Processed 12 passenger shelter permits
- Completed 3 shelter pads and installed 6 shelters as part of the Transit Waiting Environment Program
- Completed installation of 14 solar panels on shelters on St. Clair Avenue
- Initiated demonstration program of real time solar powered signs in collaboration with Downtown Cleveland Alliance
- Completed Economic Investment Analysis of the Healthline for the 10 year Anniversary
- Processed and obtained Environmental Clearances on 3 projects.
- Applied for and was awarded \$336,000 from FTA Pilot TOD Planning Funds for W. 25<sup>th</sup> Street
- Participated in 3 NOACA TLCI projects
- Executed 2 Public Art contracts
- Completed 1 public art installation

## 2019 PRIORITIES

- Represent RTA interests in City of Cleveland and NOACA Planning projects as required
- Manage real estate interests of RTA as required
- Award Contract for FTA Pilot TOD Planning project on W. 25<sup>th</sup> Street
- Obtain Environmental Clearances as needed
- Complete E. 116<sup>th</sup> public art installation
- Make progress on the Strategic Planning Process
- Complete shelter permit process as required
- Complete E 79<sup>th</sup> station land acquisition process

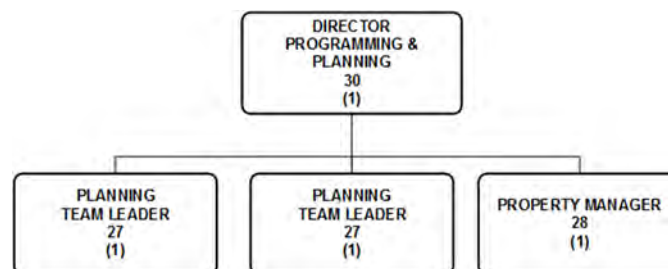
- Initiate art fencing project for E. 79<sup>th</sup> Street Station
- Complete and recommend to the Board of Trustees a Development Agreement for the W. 25<sup>th</sup> Street/Columbus Road TOD Project
- Complete all land transactions required for the RedLine/Greenway with the Metroparks
- Complete installation of solar real time panel demonstration projects
- Complete additional TWE projects
- Continue representation of RTA on NOACA committees, Sub-committees, Task Forces, and TLCI projects

#### PROGRAMMING AND PLANNING DEPARTMENT BUDGET

Object Class	Description	2017 Actual	2018 Actual	2019 Amended Budget
501300	Labor Salaried Employees	287,469	324,856	332,144
502000	Fringe Benefits	114,385	130,237	108,638
503000	Services	17,936	122,260	26,300
504000	Materials & Supplies	418	0	500
504050	Office Supplies	0	0	0
507030	Property Taxes	219,774	27,827	250,115
509000	Miscellaneous Expenses	15,229	12,123	14,370
509020	Travel & Conferences	0	0	0
509022	Meals & Concessions	106	0	100
512000	Leases & Rentals	96,689	106,436	121,968
<b>Total</b>		<b>752,007</b>	<b>723,739</b>	<b>854,135</b>

#### PROGRAMMING AND PLANNING DEPARTMENT STAFFING

Grade	Job Name	2016	2017	2018	2019
27	0838 Planning Team Leader	2.0	2.0	2.0	2.0
28	0794 Property Manager	1.0	1.0	1.0	1.0
30	0788 Director	1.0	1.0	1.0	1.0
	<b>Total</b>	<b>4.0</b>	<b>4.0</b>	<b>4.0</b>	<b>4.0</b>



# ENGINEERING & PROJECT DEVELOPMENT DEPARTMENT

## MISSION STATEMENT

The Engineering & Project Development Department’s mission is to design and manage construction of the Authority’s capital improvement and rehabilitation programs, safely, on budget, on schedule, as well as involvement in quality control, and quality assurance services.

## STRATEGIC PLAN CHANGE INITIATIVES & SCORECARD MEASURES

Implementation of the Engineering Projects and Project Development ensures that the Authority can achieve the Vital Few Objectives for Fiscal Responsibility (Enhancing Fiscal Responsibility) through planning, design, and construction activities for capital projects, as well as Continual Process Improvement through Achieving a State of Good Repair on the Authority’s infrastructure and facilities.

## 2018 ACCOMPLISHMENTS

- Completed construction of the East 34<sup>th</sup> Street Station ADA Rehabilitation.
- Completed design and began construction of the Farnsleigh Station ADA Rehabilitation.
- Completed demolition of the WB CRMF Access Road Bridge over Norfolk Southern.
- Completed construction of repairs to Ambler Road Bridge.
- Commenced design of Red Line Fiber Optic System Replacement.
- Completed construction of the Red Line W. 117<sup>th</sup> to West Park Track Rehabilitation.
- Completed West Park NS Diamond Crossing Removal.
- Completed design for E. 116<sup>th</sup> Bridge Deck Rehabilitation.
- Completed Signal System Evaluation.
- Commenced W. 65<sup>th</sup> Street Substation Reconstruction.
- Completed Viaduct Fender Repairs.
- Completed End of Track Devices at Tower City and Warrensville/Van Aken.
- Completed design of Puritas Substation.

## 2019 PRIORITIES

- Manage design and construction of capital projects.
- Provide design, A/E plan and specification review, quality assurance, and program management services in support of capital projects and development activities.

## ENGINEERING & PROJECT DEVELOPMENT DEPARTMENT BUDGET

Object Class	Description	2017 Actual	2018 Actual	2019 Amended Budget
501200	Hourly Employees	24,265	2,359	0
501300	Labor Salaried Employees	1,491,667	1,300,498	1,420,308
502000	Fringe Benefits	567,400	485,479	508,641
503000	Services	76,215	954	117,500
504000	Materials & Supplies	4,158	3,305	2,950
504050	Office Supplies	0	0	0
509000	Miscellaneous Expenses	32,789	29,875	32,775
509020	Travel & Conferences	0	0	0
509022	Meals & Concessions	0	0	800
<b>Total</b>		<b>2,196,494</b>	<b>1,822,469</b>	<b>2,082,974</b>

## ENGINEERING & PROJECT DEVELOPMENT DEPARTMENT STAFFING

Grade	Job Name	2016	2017	2018	2019
01	9942 Engineering Co-op	1.0	1.0	1.0	1.0
23	0725 Executive Secretary	0.0	0.0	1.0	1.0
	0757 Administrative Assistant	1.0	1.0	0.0	0.0
27	1192 Construction Engineer	3.0	3.0	3.0	3.0
	1509 Track Engineer	1.0	1.0	1.0	0.0
28	1250 Supt Construction	1.0	1.0	1.0	1.0
	1355 Resident Engineer	6.0	6.0	6.0	7.0
29	1329 Project Manager – Electrical	1.0	1.0	1.0	1.0
	1518 Project Manager – Track	1.0	1.0	1.0	1.0
	1661 Project Manager – Facilities	1.0	1.0	1.0	1.0
	1662 Project Manager – Mechanical	1.0	1.0	1.0	1.0
	1663 Project Manager – Bridges	1.0	1.0 <td 1.0	1.0	
30	0789 Director – Engineering & Project Dev	1.0	1.0	1.0	1.0
99	9931 DGM Eng & Project Mgmt	1.0	1.0	1.0	1.0
	<b>Total</b>	<b>20.0</b>	<b>20.0</b>	<b>20.0</b>	<b>20.0</b>

