APPENDIX A-1. Site Development Application for DRT Submittal

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Case #: _____

City of Auburn

SITE DEVELOPMENT APPLICATION FOR DRT SUBMITTAL

PUBLIC WORKS DEPARTMENT
171 North Ross Street, Suite 200
Auburn, AL 36830
(334) 501-3000 ~ Fax: (334) 501-7294

Applicant Name: _____ Project Name: _____

Mailing Address: _____ Site Address: _____

_____ Phone Number: _____

Email Address: _____

A COPY OF THE DEED TO THE SUBJECT PROPERTY MUST BE SUBMITTED WITH THIS APPLICATION. If the applicant is not the owner, then a letter allowing the applicant to act as an "authorized agent" must be on file. All associated fees will be charged to the applicant unless otherwise arranged.

General Location: _____

Gross Area of Subject Property: _____ Number of Individual Units (If residential): _____

Current Use: _____ Current Zoning District: _____

Proposed Use: _____

Is the proposed development to be on an existing lot of record? ☐ Yes ☐ No
Is the proposed development on a designated corridor? ☐ Yes ☐ No

Required Documents

For a complete list of the submittal requirements, see section 1.3.4 of the Public Works Design and Construction Manual

For site development projects an approved site plan, approved engineering plans and an approved landscape plan (pursuant to regulations in Section 802.12) are required before release of the zoning certificate. Additionally, all erosion & sediment control measures and detention (if required) must be installed and approved prior to release of the zoning certificate.

I, the applicant, certify that all of the above facts are true and correct to the best of my knowledge. I understand that any development approval(s) granted pursuant to this application shall be subject to all applicable regulations of the City of Auburn, and that such approval(s) shall expire unless construction has commenced within eighteen (18) months following date of approval.

Applicant's Signature:	Date:
Applicant's Name (Please print):	Time:

FOR OFFICE USE ONLY

Received By:	**Date & Time:**
Submittal Approved? Yes ☐ No ☐	**Comment (if rejected):**
DRT Meeting Date:	

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APPENDIX A-2. Subdivision Application for DRT Submittal

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Case #: _____

City of Auburn

SUBDIVISION APPLICATION FOR DRT SUBMITTAL

PUBLIC WORKS DEPARTMENT

171 North Ross Street, Suite 200
Auburn, AL 36830
(334) 501-3000 ~ Fax: (334) 501-7294

Applicant Name: _____ Project Name: _____

Mailing Address: _____ Site Address: _____

_____ Phone Number: _____

Email Address: _____

A COPY OF THE DEED TO THE SUBJECT PROPERTY MUST BE SUBMITTED WITH THIS APPLICATION. If the applicant is not the owner, then a letter allowing the applicant to act as an "authorized agent" must be on file. All associated fees will be charged to the applicant unless otherwise arranged.

General Location: _____

Gross Area of Subject Property: _____ Number of Individual Lots: _____

Current Zoning District: _____ Will this be developed as *Performance*? ☐ Yes ☐ No

Will this development require Lee County review? ☐ Yes ☐ No

Has a Preliminary Plat Been Approved? ☐ Yes ☐ No

Has the Preliminary Plat changed since it was approved by the Planning Commission? ☐ Yes ☐ No

If yes, describe the changes: _____

_____

Required Documents

For a complete list of the submittal requirements, see section 1.3.4 of the Public Works Design and Construction Manual

I, the applicant, certify that all of the above facts are true and correct to the best of my knowledge. I understand that any development approval(s) granted pursuant to this application shall be subject to all applicable regulations of the City of Auburn, and that such approval(s) shall expire unless construction has commenced within eighteen (18) months following date of approval.

Applicant's Signature:	Date:
Applicant's Name (Please print):	Time:

FOR OFFICE USE ONLY

Received By:	**Date & Time:**
Submittal Approved? Yes ☐ No ☐	**Comment (if rejected):**
DRT Meeting Date:	

Unless the box below is checked, review comments will be posted on the City of Auburn web site where they will be availble for download in PDF format.

☐ Do not post the DRT review comments for the subject project on the City of Auburn web site.

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APPENDIX B-1. Site Development Plans Engineering Checklist

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DRT Checklist for *Site Development* Construciton Plans

Project Name: _____

This checklist must be submitted with every set of engineering construction plans for site developents (conditional & permitted use projects). All items on the checklist shall be addressed. If the item is not applicable to this project check the box next to the item labeled "N/A", and provide comment. Items preceded by an asterisk (*****) are required for the submittal to be considered complete. If one of these items is missing from the submittal without a valid explanation, the entire submittal will be rejected. Note that this checklist is not intended to be all-inclusive, and fulfillment of this checklist does not alleviate the obligation of the designer to meet all City of Auburn code, regulations, ordinances, and specifications. The purpose of this checklist is to facilitate a more efficient plan review process for the designer and the review team.

	Description	Check	N/A	Comments
Required Plan Sheets				
	These are the basic sheets we expect to see in a set of plans. Some sheets may be combined on certain projects, or have different names (for example, water and sewer shown on one utility plan sheet for small projects).			
*	Title/Cover Sheet			
*	Project Notes			
*	Existing Conditions/Demo Plan			
*	Site Plan (engineering)			
*	Water Plan			
*	Sanitary Sewer Plan			
*	Sanitary Sewer Profiles (for public infrastructure)			
*	Grading & Drainage Plan			
*	Storm Sewer Profiles (for public infrastructure)			
*	Erosion & Sediment Control Plan			
*	Street Plan & Profiles (for public infrastrucutre)			
*	Miscellaneous Details, Cross-sections & Other Sheets			
*	City of Auburn Standard Details			
Title Sheet				
Title Sheet - Title Sheet - Ti	Project Title			
	Permit Numbers (USACE & ADEM)			
	Relevant Contact Information			
	Sheet Index			
	Vicinity Map (legible)			
	Engineer's Seal			
Project Notes				
Notes	Verify that project notes do not conflict with City of Auburn specifications			
	Provide Legend			
Existing Conditions / Demo Plan				
Existing Conditions - Existing Conditions - Existin	Include North arrow			
	Show locations of existing structures			
	Indicate if structures are being removed			
	Show existing topography with clearly labeled contours lines			
	Minimum 2ft contour intervals with every 10ft line labeled			
	Show existing water features including wetland areas			
	Show existing easements and right-of-ways			
	Show existing utilities			
	Indicate if being removed/abandoned			
	Show all property lines			
	Show the limits of clearing & grubbing			
Site Plan (engineering)				
Site Plan - Site Plan - Si	Show property lines, building layout, pavement, traffic/parking striping,			
	traffic signs, etc.			
	Indicate parking dimensions, lane widths, and corner radii			
	Show dumpster location			
	Verfiy Planning Commission resolutions have been met for Conditional Uses			
Water Plans				
ns - Water Plans - Water Plans - W	*Required water service submittals prior to or with plan submittal:			
	Development Application for Water and Sewer Service			
	Backflow Protection Information Sheet			
	Fire flow calculations (where applicable, coordinate with the WRM Department)			
	Include North arrow			
	If water layout requires multiple pages, include an overall plan sheet			
	The following **existing** water infrastructure should be shown:			
	Location, size, and material of all water mains and service lines			
	Location and size of all water meters			
	Location of the nearest main line valves for isolation of the site			

Description	Check	N/A	Comments
Location of the nearest fire hydrants			
Location of all blow-off valves and air release valves			
The following **proposed** water infrastructure should be shown:			
Location, size, and material of all water mains and service lines			
Location and size of all water meters (place at edge of ROW or easement)			
Location of all isolation valves, blow-off valves, and air release valves			
Location of all fire hydrants			
Location of FDC within 125 ft of a fire hydrant			
Location of all backflow prevention devices, and vaults			
Location of all bends, tees, and fittings (specify type and degree)			
Location and detail of all necessary thrust restraint			
Location of vault drain to grade or to storm sewer			
Show all existing and proposed easements			
Provide a general layout of other utilities (existing and proposed)			
Clearly differentiate between existing and proposed utilities			
Detail all main line connections showing appropriate tap configuration and fittings			
Provide backflow prevention for all main line connections			
Provide estimated static pressure (normally 820 - FFE / 2.31)			
Use pressure reducing valves where static pressure > 70 psi			
Size pipes to maintain a velocity not to exceed 10 ft/sec			
Provide minimum cover of 30 inches for lines 8 inches and smaller			
Provide minimum cover of 36 inches for lines larger than 8 inches			
Provide minimum 18 inches vertical separation where water & sewer cross			
Provide minimum 10 feet horizontal separation between water & sewer lines			
Provide sprinkler count			
Provide the following notes where applicable:			
"Existing services to be abandoned shall be terminated at the main."			
"Notify AWWB of any scheduled outages 7 days prior to the outage."			
"Only AWWB personnel are authorized to operate AWWB valves."			
Sanitary Sewer Plans			
*Required sewer service submittals prior to or with plan submittal:			
Development Application for Water and Sewer Service			
Grease Trap Sizing Worksheet			
Approved pump station design (coordinated with the WRM Department)			
Include North arrow			
If sewer layout requires multiple pages, include an overall plan sheet			
Show all existing and proposed easements			
Provide a general layout of other utilities (existing and proposed)			
The following **existing** sewer infrastructure should be shown:			
Location of all manholes with rim, and all invert elevations provided			
Location, sizes, materials, and slopes of all sewer mains and laterals			
Location, and size of grease traps and/or oil & grit separators			
The following **proposed** sewer infrastructure should be shown:			
Location of all manholes with rim, and all invert elevations provided			
Location, sizes, materials, and slopes of all sewer mains and laterals			
Location and size of grease traps where required			
Location and size of oil & grit separators where required			
Location of cleanouts at the edge of ROW or easement			
Clearly differentiate between existing and proposed utilities			
Label all manholes and pipes (correspond with labels on profile sheets)			
Provide contours or specify finish floor elevations			
Indicate how existing sewer mains or services are to be abandoned			
Manholes shall be locked down if less than 1 foot above the 100-yr BFE			
Public sanitary sewer main requirements:			
Manholes shall be located in the center of the street where possible			
Design sewer lines for maximum capacity at half full			
DIP required where cover is greater than 12 feet or less than 3 feet			

Description	Check	N/A	Comments
DIP required where less than 2 feet of clearance between utilities			
DIP required within the 100-yr BFE or where bouyancy is a concern			
Provide consistent pipe material between manholes			
Minimum slope requirements:			
4"=2%, 6"=1%, 8"=0.60%, 10"=0.35%, 12"=0.30%			
Provide a minimum 0.10' drop across all straight through manholes			
Provide a minimum 0.25' drop across all turning manholes			
Manhole spacing should not exceed 400 feet			
Services tied into mains shall have a 3 feet minimum separation			
Service lines should connect to manholes where possible			
Use standard 4 inch drop for service lines into manholes			
Service lines angled against the flow use a minimum 6 inch drop			
If angle against the flow >135 degrees connect lateral directly to main			
No more than four laterals connected to a pass through manhole			
No more than five laterals connected to a beginning manhole			
Cleanouts to be located in traffic rated enclosure in paved areas			
Backflow prevention is required when any sewered portion of a building is less than 12 inches above the rim elevation of the nearest **upstream** manhole. Such lots shall be identified on the plans and the plat.			
Sanitary Sewer Pipe Profiles			
Indicate pipe material, size, slope and length			
Show all utility crossings			
Show existing and proposed grades			
Show all rim and invert elevations			
Show outside drop manhole where drop is 2 feet or greater			
Label all manholes and pipes (correspond with labels on plan sheets)			
Show existing mains and structures at all connection points			
Clearly differentiate between existing and proposed utilities			
Clearly differentiate between material types			
Grading & Drainage Plans			
Include North arrow			
If plans require multiple pages, include at least one overall plan sheet			
Show existing topographic contours			
Maximum 2ft contour intervals with every 10ft line labeled			
Used lighter or dashed line type for existing contour lines			
Show proposed contours			
Maximum 2ft contour intervals with every 10ft line labeled			
Proposed contour lines shoud tie-in to existing contour lines			
Show streams and other water features			
Show stream & wetland buffers			
Show 100-yr flood plain boundaries			
Indicate minimum FFE's for lots adjacent to water features			
Show all existing structures, utilities, and easements that will remain			
Show mitigation areas			
Indicate steep slopes (City of Auburn Zoning Ordinance)			
Show curb & gutter (2ft City of Auburn Std. C&G)			
Show all storm water inlets			
Max access spacing 500ft for 15in to 48in pipe (for public infrastrcture)			
Max access spacing 800ft for 54in or greater (for public infrastructure)			
Double-wing inlets only used in sags (for public infrastructure)			
Show all proposed culverts			
Indicate type and dimensions			
Show headwalls and energy dissipaters			
Show all storm sewer pipe			
Show headwalls at discharge points			
Show all manholes and junction boxes			
Extend discharge points at least 10 ft beyond building lines			
Show rip-rap or other energy dissipators at discharge points			
Show all proposed drainage & utility easement			
Show detention system(s)			
Fencing required around ponds for slopes steeper than 3:1			
Pipes discharge at bottom of pond slopes			
Show outlet structure(s)			

Description	Check	N/A	Comments
Storm Water Pipe Profiles (for public infrastructure only)			
Storm Profiles - Storm Profiles			
Indicate pipe size, material, slope and length			
Pipe beneath streets shall be RCP			
Show rim & invert elevations			
Show 25-yr Hydraulic Grade Line			
Show existing and proposed grades			
Show all other utility crossings			
Show existing pipe & structures at tie-ins			
Erosion & Sediment Control Plans			
E&SC Plans - E&SC Plans - E&SC Plans - E&SC Plans - E&SC Plans - E&SC Plans			
Used a phased plan when applicable			
Show clearing limits			
Show stream & wetland buffers. Drainage basin of stream should be			
delineated from the commencement point of the stream, to the point			
that it leaves the property. Basin area determines buffer widths (see ZO)			
Provide an ES&C legend			
Identify project sign location and provide project rain gauge on site			
Silt fencing shall be Class "A" (wire reinforced, metal staked, trenched) or C-POP			
Construction Entrance Pad (min 20ft x 50ft) Use #1 stone with geotextile			
fabric underneath. One CEP per site at any given time.			
Hay bales may not be used as stand-alone inlet protection. They can be			
used in conjunction with silt fence, silt savers, etc			
Use rock check dams, wattles, or silt fence check dams (rather than			
hay bales) where applicable.			
Design and show outlet protection at all discharges			
Show curb inlet protection devices (no stand-alone hay bales)			
Slopes greater than 3:1 require erosion control blankets. Specify types			
of blankets being used.			
Show all sediment basin locations, filter structures, and sediment volumes			
*Submit sediment storage calculations			
Attach City of Auburn standard erosion & sedimentation ctrl. details			
Include the following notes on the E&SC Plans[1]			
Street Plan & Profiles (for public infrastructure only)			
Street Plan & Profiles - Street Plan & Profiles - Street Plan & Profiles - Street Plan & Profiles - Street Pl			
Plan view			
Include North arrow			
Show existing and proposed topography			
Show edge of pavement and curb/gutter			
Show ROW & easements			
Show station line			
Show horizontal curve radii			
Indicate tangent lengths (minimum 100ft between curves)			
Indicate street width (b/c to b/c)			
Indicate intersection corner property line radii (minimum 20ft)			
Show proposed sidewalks			
Profile View			
Show existing and proposed centerline grades			
Max grade for local streets = 15%			
Max grade for collector streets = 12%			
Max grade for minor arterial = 8%			
Max grade = 5% within 100ft of intersection			
Show vertical alignment with all vertical curve data			
Indicate the design speed used			
Local Street Design Speed = 25 mph			
Collector Street Design Speed = 35 mph			
Align stationing with the plan view station line			
Miscellaneous Details, Cross-sections, & Other Sheets			
Miscellaneous Details, Cross-sections, & Oth			
Collector or arterial (or other special) striping			
Show details for improvements to off-site infrastructure			
Turn lanes - including buildup and striping (meet with City on widening)			
Off-site sewer, water, or storm water improvements			
Detention outlet control structure details			
Culvert details			
HDPE installation details (for public infrastrucutre)			
Tail ditch and/or swale details			
Traffic control plan and detour plan			
Proposed street classifications & buildups (for public infrastrucutre)			

	Description	Check	N/A	Comments
City of Auburn Standard Details				
	Include all relevant City of Auburn standard details with the final plans			
Miscellaneous Design Requirements				
Miscellanous Design Requirements - Miscellanous Des	No trees within 10ft of center line of utilities			
	Sight distance analysis needed?			
	Storage/taper length calculations for turn lanes? (can be shown on plans)			
	are any wiavers or variances required?			
	The following note should be added to all utility plans and plats[2]			
	Easements shall be the greater of 20ft or 2 times the depth to the bottom			
	of the utility. Easement widths shall be in increments of 10ft.			
	Slope and grades of easements shall be passable by vehicles			
	(maximum easement cross slope of 4:1)			
	All topography should be relative to MSL (no assumed datum)			
	Utility stub outs for future development should be placed in easements			
	extending to the edge of the property line			

[1] a. Any area that has been disturbed and will remain so for more than 15 days shall be seeded and mulched within 5 days of being disturbed.
b. Additional BMPs may be required by the QCP and/or City of Auburn over the course of the project to minimize sediment release from the site
c. All BMPs shall be designed and installed in accordance with the Alabama Handbook for Erosion Control, Sediment Control, and Storm water Management on Construction Sites and Urban Areas and the City of Auburn standard erosion and sediment control details.
d. The use of floc-blocks, polyacrylamide (PAM), or other settling enhancement materials may be required by the QCP or City of Auburn during course of construction to minimize turbidity and sediment release from the site.

[2] No permanent structures may be constructed or placed on easements. Fences may be erected perpendicularly across the easement provided there is a minimum 12-foot wide access gate installed. If the gate is to be locked there must be a City-approved lock installed in conjunction with the owners lock. No trees shall be planted within 10 feet of utilities.

SIGNED: _____
(engineer of record)

Revised 01/01/2016

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APPENDIX B-2. Subdivision Construction Plans Engineering Checklist

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DRT Checklist for *Subdivision* Construction Plans

Project Name: _____

This checklist must be submitted with every set of engineering construction plans for subdivision improvements. All items on the checklist shall be addressed. If the item is not applicable to this project check the box next to the item labeled "N/A", and provide comment. Items preceded by an asterisk (*****) are required for the submittal to be considered complete. If one of these items is missing from the submittal without a valid explanation, the entire submittal will be rejected. Note that this checklist is not intended to be all-inclusive, and fulfillment of this checklist does not alleviate the obligation of the designer to meet all City of Auburn code, regulations, ordinances, and specifications. The purpose of this checklist is to facilitate a more efficient plan review process for the designer and the review team.

	Description	Check	N/A	Comments
Required Plan Sheets				
	These are the basic sheets we expect to see in a set of plans. Some sheets may be combined on certain projects, or have different names (for example, storm water profiles shown on the street plan & profile sheets).			
*	Title/Cover Sheet			
*	Project Notes			
*	Existing Conditions/Demo Plan			
*	Preliminary Plat			
*	Water Plan			
*	Sanitary Sewer Plan			
*	Sanitary Sewer Profiles			
*	Grading & Drainage Plan			
*	Storm Sewer Profiles			
*	Erosion & Sediment Control Plan			
*	Street Plan & Profiles			
*	Miscellaneous Details, Cross-sections & Other Sheets			
*	City of Auburn Standard Details			
Title Sheet				
Title Sheet - Title Sheet - T	Project Title			
	Permit Numbers (USACE & ADEM)			
	Relevant Contact Information			
	Sheet Index			
	Vicinity Map (legible)			
	Engineer's Seal			
Project Notes				
Notes	Verify that project notes do not conflict with City of Auburn specifications			
	Provide Legend			
Existing Conditions / Demo Plan				
Existing Conditions - Existing Conditions - Existi	Include North arrow			
	Show locations of existing structures			
	Indicate if structures are being removed			
	Show existing topography with clearly labeled contours lines			
	Minimum 2ft contour intervals with every 10ft line labeled			
	Show existing water features including wetland areas			
	Show existing easements and right-of-ways			
	Show existing utilities			
	Indicate if being removed/abandoned			
	Show all property lines			
	Show the limits of clearing & grubbing			
Preliminary Plat				
Preliminary F	Include a copy of the approved Preliminary Plat			
	Indicate any changes from the approved plat			
	Verify planning commission resolutions were addressed			
Water Plans				
Water Plans - Water Plans - Water Pla	*Required water service submittals prior to or with plan submittal:			
	Development Application for Water and Sewer Service			
	Backflow Protection Information Sheet			
	Fire flow calculations (where applicable, coordinate with the WRM Department)			
	Include North arrow			
	If water layout requires multiple pages, include an overall plan sheet			
	The following **existing** water infrastructure should be shown:			
	Location, size, and material of all water mains and service lines			

Description	Check	N/A	Comments
Location and size of all water meters			
Location of the nearest main line valves for isolation of the site			
Location of the nearest fire hydrants			
Location of all blow-off valves and air release valves			
The following **proposed** water infrastructure should be shown:			
Location, size, and material of all water mains and service lines			
Location and size of all water meters (place at edge of ROW or easement)			
Location of all isolation valves, blow-off valves, and air release valves			
Location of all fire hydrants			
Location of FDC within 125 ft of a fire hydrant			
Location of all backflow prevention devices, and vaults			
Location of all bends, tees, and fittings (specify type and degree)			
Location and detail of all necessary thrust restraint			
Location of vault drain to grade or to storm sewer			
Show all existing and proposed easements			
Provide a general layout of other utilities (existing and proposed)			
Clearly differentiate between existing and proposed utilities			
Detail all main line connections showing appropriate tap configuration and fittings			
Provide backflow prevention for all main line connections			
Provide estimated static pressure (normally 820 - FFE / 2.31)			
Use pressure reducing valves where static pressure > 70 psi			
Size pipes to maintain a velocity not to exceed 10 ft/sec			
Provide minimum cover of 30 inches for lines 8 inches and smaller			
Provide minimum cover of 36 inches for lines larger than 8 inches			
Provide minimum 18 inches vertical separation where water & sewer cross			
Provide minimum 10 feet horizontal separation between water & sewer lines			
Provide sprinkler count			
Provide the following notes where applicable:			
"Existing services to be abandoned shall be terminated at the main."			
"Notify AWWB of any scheduled outages 7 days prior to the outage."			
"Only AWWB personnel are authorized to operate AWWB valves."			
Sanitary Sewer Plans			
*Required sewer service submittals prior to or with plan submittal:			
Development Application for Water and Sewer Service			
Grease Trap Sizing Worksheet			
Approved pump station design (coordinated with the WRM Department)			
Include North arrow			
The following **existing** sewer infrastructure should be shown:			
Location of all manholes with rim, and all invert elevations provided			
Location, sizes, materials, and slopes of all sewer mains and laterals			
Location, and size of grease traps and/or oil & grit separators			
The following **proposed** sewer infrastructure should be shown:			
Location of all manholes with rim, and all invert elevations provided			
Location, sizes, materials, and slopes of all sewer mains and laterals			
Location and size of grease traps where required			
Location and size of oil & grit separators where required			
Location of cleanouts at the edge of ROW or easement			
If sewer layout requires multiple pages, include an overall plan sheet			
Show all existing and proposed easements			
Provide a general layout of other utilities (existing and proposed)			
Clearly differentiate between existing and proposed utilities			
Label all manholes and pipes (correspond with labels on profile sheets)			
Provide contours or specify finish floor elevations			
Indicate how existing sewer mains or services are to be abandoned			
Manholes shall be locked down if less than 1 foot above the 100-yr BFE			
Public sanitary sewer main requirements:			
Manholes shall be located in the center of the street where possible			
Design sewer lines for maximum capacity at half full			
DIP required where cover is greater than 12 feet or less than 3 feet			
DIP required where less than 2 feet of clearance between utilities			
DIP required within the 100-yr BFE or where bouyancy is a concern			
Provide consistent pipe material between manholes			

	Description	Check	N/A	Comments
SS Plans - SS Plans - SS Plans - SS Plans - SS Plans - SS Plans - SS Plans - SS Pla	Minimum slope requirements:			
	4"=2%, 6"=1%, 8"=0.60%, 10"=0.35%, 12"=0.30%			
	Provide a minimum 0.10' drop across all straight through manholes			
	Provide a minimum 0.25' drop across all turning manholes			
	Manhole spacing should not exceed 400 feet			
	Services tied into mains shall have a 3 feet minimum separation			
	Service lines should connect to manholes where possible			
	Use standard 4 inch drop for service lines into manholes			
	Service lines angled against the flow use a minimum 6 inch drop			
	If angle against the flow >135 degrees connect lateral directly to main			
	No more than four laterals connected to a pass through manhole			
	No more than five laterals connected to a beginning manhole			
	Cleanouts to be located in traffic rated enclosure in paved areas			
	Backflow prevention is required when any sewered portion of a building is less than 12 inches above the rim elevation of the nearest **upstream** manhole. Such lots shall be identified on the plans and the plat.			
Sanitary Sewer Pipe Profiles				
SS Profiles - SS Profiles - SS Profiles - SS Profiles	Indicate pipe material, size, slope and length			
	Show all utility crossings			
	Show existing and proposed grades			
	Show all rim and invert elevations			
	Show outside drop manhole where drop is 2 feet or greater			
	Label all manholes and pipes (correspond with labels on plan sheets)			
	Show existing mains and structures at all connection points			
	Clearly differentiate between existing and proposed utilities			
	Clearly differentiate between material types			
Grading & Drainage Plans				
Grading & Drainage - Grading & Drainage - Grading & Drainage - Grading & Drainage - Grading & Drainage - Grading & Drainage - Grading & Drainage	Include North arrow			
	If plans require multiple pages, include at least one overall plan sheet			
	Show existing topographic contours			
	Maximum 2ft contour intervals with every 10ft line labeled			
	Used lighter or dashed line type for existing contour lines			
	Show proposed contours			
	Maximum 2ft contour intervals with every 10ft line labeled			
	Proposed contour lines shoud tie-in to existing contour lines			
	Show streams and other water features			
	Show stream & wetland buffers			
	Show 100-yr flood zone boundaries			
	Indicate minimum FFE's for lots adjacent to water features			
	Show all existing structures, utilities, and easements that will remain			
	Show mitigation areas			
	Indicate steep slope areas as defined in the City of Auburn Zoning Ordinance			
	Show curb & gutter (2ft City of Auburn Std. C&G)			
	Show Inlets (single & double winged)			
	Max access spacing 500ft for 15in to 48in pipe			
	Max access spacing 800ft for 54in or greater			
	Double-wing inlets only used in sags			
	Show all proposed culverts			
	Indicate type and dimensions			
	Show headwalls and energy dissipaters			
	Show all storm sewer pipe			
	Show headwalls at discharge points			
	Show all manholes and junction boxes			
	Extend discharge points 10 ft beyond rear building lines			
	Show rip-rap or other energy dissipators at discharges			
	Show all proposed drainage & utility easement			
	Show detention system(s)			
	Fencing required around ponds for slopes steeper than 3:1			
	Pipes discharge at bottom of pond slopes			
	Show outlet structure(s)			

	Description	Check	N/A	Comments
Storm Water Pipe Profiles				
Storm Profiles - Storm Profiles	Indicate pipe size, material, slope and length			
	Pipe beneath streets shall be RCP			
	Show rim & invert elevations			
	Show 25-yr Hydraulic Grade Line			
	Show existing and proposed grades			
	Show all other utility crossings			
	Show existing pipe & structures at tie-ins			
Erosion & Sediment Control Plans				
E&SC Plans - E&SC Plans - E&SC Plans - E&SC Plans - E&SC Plans - E&SC Plans - E&SC Plans	Used a phased plan when applicable			
	Show clearing limits			
	Show stream & wetland buffers. Drainage basin of stream should be delineated from the commencement point of the stream, to the point that it leaves the property. Basin area determines buffer widths (see ZO)			
	Provide an ES&C legend			
	Identify project sign location and provide project rain gauge on site			
	All silt fencing shall be Class "A" (wire reinforced, metal staked, trenched) or C-POP			
	Construction Entrance Pad (min 20ft x 50ft) Use #1 stone with geotextile fabric underneath. One CEP per site at any given time.			
	Hay bales may not be used as stand-alone inlet protection. They can be used in conjunction with silt fence, silt savers, etc			
	Use rock check dams, wattles, or silt fence check dams (rather than hay bales) where applicable.			
	Design and show outlet protection at all discharges			
	Show curb inlet protection devices (no stand-alone hay bales)			
	Slopes greater than 3:1 require erosion control blankets. Specify types of blankets being used.			
	Show all sediment basin locations, filter structures, and sediment volumes			
	*Submit sediment storage calculations			
	Attach City of Auburn standard erosion & sedimentation ctrl. details			
	Include the following notes on the E&SC Plans[1]			
Street Plan & Profiles				
Street Plan & Profiles - Street Plan & Profiles - Street Plan & Profiles - Street Plan & Profiles - Street Plan & Profile	**Plan view**			
	Include North arrow			
	Show existing and proposed topography			
	Show edge of pavement and curb/gutter			
	Show ROW & easements			
	Show station line			
	Show horizontal curve radii			
	Indicate tangent lengths (minimum 100ft between curves)			
	Indicate street width (b/c to b/c)			
	Indicate intersection corner property line radii (minimum 20ft)			
	Show proposed sidewalks			
	Profile View			
	Show existing and proposed centerline grades			
	Max grade for local streets = 15%			
	Max grade for collector streets = 12%			
	Max grade for minor arterial = 8%			
	Max grade = 5% within 100ft of intersection			
	Show vertical alignment with all vertical curve data			
	Indicate the design speed used (see PW Manual)			
	Align stationing with the plan view station line			
Miscellaneous Details, Cross-sections, & Other Sheets				
Miscellaneous Details, Cross-sections, &	Collector or arterial (or other special) striping			
	Show details for improvements to off-site infrastructure			
	Turn lanes - including buildup and striping (meet with City on widening)			
	Off-site sewer, water, or storm water improvements			
	Detention outlet control structure details			
	Culvert details			
	Tail ditch and/or swale details			
	Traffic control plan and detour plan			
	Proposed street classifications & buildups			

	Description	Check	N/A	Comments
City of Auburn Standard Details				
	Include all relevant City of Auburn standard details with the final plans			
Miscellaneous Design Requirements				
Miscellanous Design Requirements - Miscellanous Da	Sight distance analysis needed?			
	Storage/taper length calculations for turn lanes (can be shown on plans)			
	No trees within 10ft of center line of utilities			
	Are any waivers or variances required?			
	The following note should be added to all utility plans and plats[2]			
	Easements shall be the greater of 20ft or 2 times the depth to the bottom			
	of the utility. Easement widths shall be in increments of 10ft.			
	Slope and grades of easements shall be passable by vehicles			
	(maximum easement cross slope of 4:1)			
	All topography should be relative to MSL (no assumed datum)			
	Utility stub outs for future development should be placed in easements			
	extending to the edge of the property line			

[1] a. Any area that has been disturbed and will remain so for more than 15 days shall be seeded and mulched within 5 days of being disturbed.
b. Additional BMPs may be required by the QCP and/or City of Auburn over the course of the project to minimize sediment release from the site
c. All BMPs shall be designed and installed in accordance with the Alabama Handbook for Erosion Control, Sediment Control, and Storm water Management on Construction Sites and Urban Areas and the City of Auburn standard erosion and sediment control details.
d. The use of floc-blocks, polyacrylamide (PAM), or other settling enhancement materials may be required by the QCP or City of Auburn during course of construction to minimize turbidity and sediment release from the site.

[2] No permanent structures may be constructed or placed on easements. Fences may be erected perpendicularly across the easement provided there is a minimum 12-foot wide access gate installed. If the gate is to be locked there must be a City-approved lock installed in conjunction with the owners lock. No trees shall be planted within 10 feet of utilities.

SIGNED: _____
(engineer of record)

Revised 01/01/2016

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APPENDIX B-3. Site Plan Sufficiency Checklist

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City of Auburn

SITE PLAN SUFFICIENCY CHECKLIST
PLANNING DEPARTMENT
FOR THE DEVELOPMENT REVIEW TEAM SUBMITTAL

Eden Case #_____

REQUIRED

Table format:		**Graphic information:**	
	Zoning and Current Land Use of adjacent properties		**Vicinity map**, north arrow, seal, (Name, address & Phone number of surveyor), date prepared and graphic scale
	Impervious surface area in square feet, Impervious surface ratio (calculated) Maximum and proposed		**Certified boundary survey** of the tract prepared by a registered surveyor, indicating an existing lot of record
	Floor area in square feet, Floor area ratio (calculated) Maximum and proposed		Location, height and **dimensions of all structures**
	Number of floors or stories, **height** of all structures		Location of all **impervious surfaces**
	Type(s) of **bufferyard** required, if any, Along each property boundary and width		Location and dimensions of all required **bufferyards**
	Number of **parking spaces** Required and proposed (calculated) based on Section 502 or 509 requirements		Areas of **general landscaping** pursuant to Section 426 / Areas of **landscaping for off-street parking areas** pursuant to Sections 426 and 433
	Corridor Overlay Information where applicable (building materials, sign, lighting etc) *Site plans subject to Corridor Overlay requirements must submit **elevations**		Locations and dimensions of all **parking spaces, loading berths, and driveway aisles**. One-way aisles must be labeled as such
			Location of all **curb cuts** and their **distances from nearest adjacent curb cuts or street intersections**
			Phase lines, if the development is to be constructed in phases
			Location and screening of **solid waste receptacles**

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APPENDIX B-4. Drainage Checklist

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City of Auburn

Stormwater Drainage Checklist

Public Works Department
171 N. Ross Street, Suite 200
Auburn, Alabama 36830 (334) 501-3000 FAX (334) 501-7294
www.auburnalabama.org/pw

This checklist shall be submitted as part of the DRT submittal package for all projects that require stormwater detention. It shall be included as the first page of the drainage report, and be signed/sealed by an engineer registered in the state of Alabama.

Description	Checked	N/A	Comments
Drainage report stamped by AL engineer			
Description of existing drainage conditions, including existing infrastructure, land use, wetlands, floodplains, etc., included in report			
Basin maps included for pre- and post-development conditions			
Sub-basins & outfalls clearly identified on basin maps			
Post-development rate of discharge does not exceed pre-development discharge rate at all analysis points			
Post-development routing summary presented in tabular format			
Pre-Development Conditions worksheet included for each sub-basin			
Post-Development Conditions worksheet included for each analysis point			
Point of Analysis Peak Discharge Summary table included			
Total Peak Discharge Summary table included			
Gutter Spread Table completed and included			
Pipe Design Table completed and included			
Hydraulic grade line shown on pipe profiles and/or swale cross-sections			
“No adverse impact” statement (for downstream infrastructure) included in report			

Project Name: _____

Date: _____

Engineer’s Signature: _____ Engineer’s Seal:

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Gutter Spread Table

Inlet ID	Gutter Flow (cfs)	Roadway Slope at Inlet (%)	Spread @ Inlet (ft)	Inlet Efficiency (%)	Bypass Flow (cfs)	Inlet ID Accepting Bypass

Pipe Design Table

Pipe ID	Pipe Size (in)	Pipe Slope (%)	Pipe Flow (cfs)	Full Flow Capacity (cfs)	Full Flow Velocity (fps)	Design Velocity (fps)

PRE-DEVELOPMENT CONDITIONS

Project Name: _____

Total Project Area (acres): _____

Comparison Point Name/Number: _____

Basin/Sub-Basin Area (acres): _____

	2 year storm	5 year storm	10 year storm	25 year storm	100 year storm
Curve Number or Runoff Coefficient					
Time of Concentration (min)					
Peak Flow (cfs)					

1- Use separate sheet for each comparison point that is used for stormwater calculations
2- Provide documentation for composite curve numbers or runoff coefficients
3- Provide documentation for time of concentration calculations
4- Provide documentation on calcualtions and method used to determine peak flow

Revised November 2011

POST-DEVELOPMENT CONDITIONS

Project Name: _____

Total Project Area (acres): _____

Comparison Point Name/Number: _____

Basin/Sub-Basin Area (acres): _____

Receiving Facility/Pond: _____

	2 year storm	5 year storm	10 year storm	25 year storm	100 year storm
Curve Number or Runoff Coefficient					
Time of Concentration (min)					
Peak Flow (cfs)					

1- Use separate sheet for each comparison point that is used for stormwater calculations
2- Indicate name of detention pond receiving runoff or bypass as appropriate
3- Provide documentation for composite curve numbers or runoff coefficients
4- Provide documentation for time of concentration calculations
5- Provide documentation on calcualtions and method used to determine peak flow

Revised November 2011

COMPARISON POINT PEAK DISCHARGE SUMMARY

Project Name: _____

Comparison Point Name/Number: _____

Return Period	Pre- Development Flow (Q cfs)	Post-Development Flow (Q cfs)	Delta Q (cfs)	% Increase (Q)
2				
5				
10				
25				
100				

Revised November 2011

TOTAL PEAK DISCHARGE SUMMARY

Project Name: _____

Return Period	Pre- Development Flow (Q cfs)	Post-Development Flow (Q cfs)	Delta Q (cfs)	% Increase (Q)
2				
5				
10				
25				
100				

Revised November 2011

APPENDIX B-5. DRT Meeting Waiver

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DRT Meeting Waiver

All projects involving new construction or additions to existing site plans must be submitted to the DRT for review. Some small projects may not require the formal DRT meeting that normally occurs one week after the review comments have been issued to the applicant. A project that meets all of the following criteria will not require the formal DRT meeting (however the project must still be submitted to the DRT for review, in accordance with applicable submittal requirements):

- ☐ The project site is less than 1 acre.
- ☐ The proposed project does not require detention.
- ☐ The proposed project involves only minor grading.
- ☐ The proposed project involves no new public infrastructure (streets, utilities, drainage, etc)
- ☐ No new driveway turnout will be constructed.
- ☐ No ADEM, ALDOT, or USACE permits are required.
- ☐ No new, or relocated, fire hydrants or FDC(s) are required.
- ☐ A traffic impact study is not required.
- ☐ The proposed, or existing, zoning is not UC or US.

In addition to projects meeting the above criteria, any project involving an addition or expansion onto an area that was originally indicated as a "future building area" (during a prior review) will not require the formal DRT meeting. In these cases, the original plans must have shown the proposed grading and utilities for the "future building area".

☐ Proposed addition or expansion area was shown on previously approved plans.

Name of previous project: _____ Approval Date (mm/yy): _____

For projects not meeting the above criteria, the formal DRT meeting is required unless otherwise indicated by the DRT secretary. In some cases, the DRT review will generate only minor comments from City staff. For these projects, the applicant will be notified upon receipt of the staff comments that the formal DRT meeting is optional.

If the applicant wishes to forgo the DRT meeting by virtue of meeting the above criteria, this form should be completed and included with the DRT submittal.

Project Name: _____

Applicant Signature: _____ Date: _____

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APPENDIX B-6. Signature Bond for Development

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STATE OF ALABAMA

LEE COUNTY

Signature Bond for Development

KNOW ALL MEN BY THESE PRESENTS, THAT WE _____ (hereinafter called the Principal) having received approval from the City of Auburn to construct the development know as _____, are held firmly unto the City of Auburn, Alabama (hereinafter called the Obligee), in full and just sum of the complete cost to repair or replace any and all infrastructure removed or damaged or displaced in the event we are unable to complete the project within a reasonable amount of time or if we declare bankruptcy or insolvency before completing the project.

NOW THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH THAT, if Principal shall promptly and faithfully construct the improvements in accordance with the approved construction plans which are made a part hereof by reference as if set out in here full, and said construction approved by Obligee, within a reasonable amount of time, then this agreement shall be null and void; otherwise to remain in full force and effect.

This agreement shall be binding on ourselves, our heirs, administrators, executors and assigns, jointly and severally and shall run with the land, firmly by these presents.

SIGNED, SEALED, AND DELIVERED THIS _____ day of _____ , _____

_____
OWNER

_____
Owner's Agent

_____
Witness to Agent's Signature:

_____
Address

(Seal)

_____
City, State

ATTEST:

_____
Telephone Number

Note: This document must be filed in the Probate record after execution.

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APPENDIX C. Hold Harmless Agreement

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INDEMNITY AND HOLD HARMLESS AGREEMENT

STATE OF ALABAMA

LEE COUNTY

WHEREAS, the City of Auburn, Alabama (hereinafter the "City") has a drainage and utility easement located along _____ _____ in Auburn, Alabama, and
(Right of way or location description)

WHEREAS, _____ (hereinafter the "Owner") of property described as _____ _____, Auburn, Alabama, wishes to locate _____ (hereinafter the "Obstruction") on the City's drainage and utility easement (shown by Exhibit A attached), and as a condition and obligation to the City for the granting of its consent to the Obstruction, the Owner, for itself and its successors in the ownership of the property on which Obstruction is located, has agreed to indemnify and hold harmless the City and holders of any interest in the easement where the Obstruction is located.

NOW, THEREFORE, in consideration of the granting of the consent of the undersigned to the placement of the Obstruction on and under the drainage and utility easement, the Owner does, for itself and its successors in the ownership of the property described, agree to indemnify, hold harmless and defend the City, its officials, representatives, agents, servants and employees from and against all liability and loss which the City and the holders of the interest in the drainage and utility easement on which the Obstruction is located may sustain as the result of claims, demands, costs or judgments arising out of the location of the Obstruction on the drainage and utility easement, including its reasonable costs in defending against any such claims. For the same consideration, the Owner agrees to release and discharge the City and The Water Works Board of the City of Auburn, Alabama from any damages to the Obstruction arising from utility maintenance work within the easement. The obligations of this indemnity shall be binding upon the successors and assigns of the Owner and shall be a covenant running with the land and shall be binding upon all future owners of the property on which the easement is located.

[Remainder of page intentionally left blank]

EXECUTED this the _____ day of _____, 20__.

_____
Owner

By: _____
Its _____

CITY OF AUBURN, ALABAMA

By: _____
Its _____

THE WATER WORKS BOARD OF THE
CITY OF AUBURN, ALABAMA

By: _____
Its _____

STATE OF ALABAMA

LEE COUNTY

I, the undersigned authority, a Notary Public in and for said County, in said State, hereby certify that _____, whose name is signed to the foregoing instrument, on behalf of the Owner, and who is known to me, acknowledged before me on this date that, being informed of the contents of the foregoing document, he/she executed the same voluntarily on the day the same bears date.

Given under my hand and official seal this the _____ day of _____, 20___.

_____
Notary Public
Commission Expires _____

STATE OF ALABAMA

LEE COUNTY

I, the undersigned authority, a Notary Public in and for said County, in said State, hereby certify that _____, whose name is signed to the foregoing instrument, on behalf of the City of Auburn, Alabama, and who is known to me, acknowledged before me on this date that, being informed of the contents of the foregoing document, he/she executed the same voluntarily on the day the same bears date.

Given under my hand and official seal this the _____ day of _____, 20___.

_____
Notary Public
Commission Expires _____

STATE OF ALABAMA

LEE COUNTY

I, the undersigned authority, a Notary Public in and for said County, in said State, hereby certify that _____, whose name is signed to the foregoing instrument, on behalf of The Water Works Board of the City of Auburn, Alabama, and who is known to me, acknowledged before me on this date that, being informed of the contents of the foregoing document, he/she executed the same voluntarily on the day the same bears date.

Given under my hand and official seal this the _____ day of _____, 20___.

_____
Notary Public
Commission Expires _____

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APPENDIX D. Easement Encroachment Agreement

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STATE OF ALABAMA)
)
COUNTY OF LEE)

LICENSE AGREEMENT

This Agreement made and entered into on this the _____ day of _____, _____, by and between The City of Auburn, Alabama, a municipal corporation, hereinafter referred to as "Licensor" and _____, hereinafter referred to as "Licensee."

STATEMENT OF BACKGROUND INFORMATION

1. The City of Auburn, Alabama is the owner of that certain drainage and utility easement from _____, dated _____, and recorded in the Office of the Judge of Probate of Lee County, Alabama in _____.

2. Licensee has requested that it be permitted to construct and install its _____ and associated appurtenances within said easement, being further described on that certain map marked "Exhibit A", attached hereto and made a part hereof by reference, and in consideration thereof has agreed to indemnify and hold harmless Licensor from any and all damages caused by its use of said easement. Licensee agrees to restore the drainage and utility easement to preconstruction conditions or better.

STATEMENT OF AGREEMENT

NOW, THEREFORE, for and in consideration of the above recitations and the mutual covenants and agreements contained herein, the parties do hereby agree as follows:

1. Licensee is hereby granted a revocable license or permit to install within the boundaries of the above-described easement its _____ and associated appurtenances in accordance with plans and specifications approved by the Licensor and at a location agreed upon by Licensor.

2. Licensee does hereby indemnify and hold harmless Licensor for any and all claims, damages and liability incurred by Licensor as a result of Licensee's _____ and associated appurtenances being located within said easement and shall further be responsible for the payment or reimbursement of all defense costs, including, but not limited to, attorneys' fees which result from the same.

3. Licensor may terminate this Agreement at any time by giving to Licensee sixty (60) days written notice thereafter to so terminate this license in which case Licensee shall remove its _____ and associated appurtenances as soon as practical thereafter at no expense to the Licensor.

IN WITNESS WHEREOF, the parties have executed this License Agreement on the date first written above.

THE CITY OF AUBURN, ALABAMA,
A MUNICIPAL CORPORATION,

BY: _____
Bill Ham
ITS: Mayor

ATTEST:

BY: _____
Charles M. Duggan, Jr.
ITS: City Manager

_____
LICENSEE

BY:_____ (L.S.)

ITS:_____

STATE OF ALABAMA

LEE COUNTY

I, the undersigned authority, a Notary Public in and for said County, in said State, hereby certify that _____, whose name is signed to the foregoing instrument, and who is known to me, acknowledged before me on this date that, being informed of the contents of this document, he/she executed the same voluntarily on the day the same bears date.

Given under my hand and official seal this the __ day of _____.

_____
Notary Public
Commission Expires_____

APPENDIX E-1. Request for Design and Construction Standard Waiver Form

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Request for Design and Construction Waiver

Project Information

Name of Project: _____ Date: _____

Project Address: _____ Telephone No.: _____

Applicant Name: _____ Applicant Firm: _____

Waiver Information

Existing Standard

Manual Section Number and Title: _____

Brief Description of Existing Standard: _____

_____

_____

Proposed Waiver

Description of Proposed Waiver: _____

_____

_____

_____

Hardship or Justification for Waiver: _____

_____

_____

_____

_____

_____

Attachments

List All Supporting Documentation Submitted With This Form: _____

_____

_____

Note: For waivers to Standard Details, submit a hard-copy of the detail showing each proposed modification encircled with a “cloud”

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APPENDIX E-2. Amendments

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RESOLUTION NO. 11-197

WHEREAS, the City Council of the City of Auburn approved and adopted the Public Works Design and Construction Manual on November 2, 2010 with an effective date of January 1, 2011; and,

WHEREAS, the City Engineer, in collaboration with the development community, finds it necessary to implement material changes (a copy of which is attached and made a part hereof) for clarification and to comply with rule changes in the industry and to make these changes effective immediately.

NOW THEREFORE, BE IT RESOLVED that the City Council of the City of Auburn, Alabama does hereby approve and accept the changes to the Public Works Design and Construction Manual effective immediately.

ADOPTED AND APPROVED by the City Council of the City of Auburn, Alabama, this the 15th day of November 2011.

BILL HAM, JR., Mayor

ATTEST:

CHARLES M. DUGGAN, JR., City Manager

Summary of Proposed Changes to the Public Works Design & Construction Manual (PWDCM)

Table of Contents

1. Added Appendix B-6, Signature Bond for Development. The Signature Bond was referenced but no formal document was included in the manual.
2. Added Appendix E-2, Amendment Number 1. As the PW Manual is amended, copies of the resolution, changes, and effective date will become a part of the manual.

Section 1 – General Information

Section 1.2.1 Definitions

1. Include a definition for Development Agreement.

Section 1.3.3.6 Bonding

1. Added a reference to the location of the Signature Bond.

Section 1.3.3.8 Development Committee

1. Added a reference to the location of the Signature Bond and removed requirement for a performance bond to cover costs of improvements.

Section 1.3.4.3 DRT Submittal Requirements

1. Added language to define that the Stormwater Storage Facility Operations & Maintenance Agreement shall be submitted before the Zoning Certificate is issued.
2. Added minimum 300 dpi resolution requirement for digital submittals.

Section 1.3.4.4 DRT Forms and Checklists

1. Provide clarification on the intent of the forms and when they are required for a development.

Section 1.3.5.5 AWWB Water Main Connection Permit

1. Provide clarification to the chain of custody of the Water Main Connection Permit.

Section 1.5.1 As-Built Submittal

1. Add reference to the geoid model to be used for as-built surveys.
2. Add reference to the Continually Operating Reference Station (CORS) to be used for Global Position System (GPS) surveys and control datum.
3. Include a minimum observation time for GPS surveys for both critical and non-critical coordinates.
4. Include a maximum Position Dilution of Precision (PDOP) value allowed for GPS surveys.
5. Add minimum resolution requirements for digital submittals.

Section 1.6.1 Easements Discussion

1. Provide clarification that creek and ditch crossings must be made accessible prior to acceptance of the infrastructure.

Section 1.6.4 Easement Language

1. Add indemnity note for obstructions placed on easements.

Section 1.8 Acceptance

1. Provide clarification on Board authority and maintenance responsibility consistent with the current Backflow Prevention and Cross-Connection Control Policy.
2. Change “Sewer Division Manager” to “Sewer Collection System Manager”.

Section 1.9 Warranty Period

1. Provide clarification that the Board or the City will invoice the developer for any costs associated with required repairs due to defects in materials and workmanship during the warranty period.

Section 1.10 Fees and Charges

1. Remove all references to sewer surcharge areas.

Figure 1.1 Development Review Process Flowchart

1. Changed language from “DRT Secretary” to “Public Works” for consistency.
2. Added an action item “BMPs Installed by the Contractor and Inspected by the City” prior to Issuance of Clearing, Grading & Utility Permit.

Appendix B-4 Drainage Checklist

1. Updated Stormwater Drainage checklist verbiage to coincide with forms.
2. Changed the basin/sub basin pre development, post development, and sub basin peak forms to reference a Point-of-Analysis approach instead of a basin approach for consistency with practice.

Appendix B-6 Signature Bond

1. Added the Signature Bond for Development to be executed under specific circumstances. The Signature Bond was referenced but no formal document was included in the manual.

Appendix E-2 Amendments

1. Amendment Number 1. As the PW Manual is amended, copies of the resolution, changes, and effective date will become a part of the manual.

Section 2 – Traffic Signal Design Guidelines

Section 2.1.1 Signal Heads

1. Added requirement for a quick disconnect feature on LED lenses and wire termination in a terminal block to simplify maintenance.

Section 2.1.6 Power Supply

1. Added reference to standard details and specify a service disconnect.

Standard Details

1. Modified Signals Detail Sheet 1 to conform to MUTCD requirements
2. Modified Detail Sheet 2 to incorporate decorative top
3. Modified Detail Sheet 3 to enlarge details
4. Modified material specifications on Signals Detail Sheet 4.

Section 3 – Traffic Calming

Section 3.1 Traffic Calming Process Summary

1. Removed requirement for 66% approval response limit to allow neighborhoods that do not meet traffic calming warrants to still petition with 80% approval required for installation.

Section 3.4 Neighborhood Petitions and Cost Share

1. Modified the amount of time a petition can circulate to 3 months.

Section 5 – Roadway Design

Section 5.2.4.3 Sidewalks

1. Changed the minimum sidewalk width to 4' for local and cul-de-sac streets, and 5' for arterials, collectors, and residential collectors.

Section 5.2.6 Driveways

1. Added language to clarify City involvement for driveways proposed to tie to state routes within the City of Auburn.

Section 5.2.6.2 Driveway Location

1. Revised the language that specifies driveway location for double frontage lots. The language clarifies that this will be in residential developments.
2. Changed the language that when a property is proposed for a change of use, existing driveways that do not comply with the Manual "should" be closed instead of "shall".

Section 5.2.6.3 Driveway Spacing

1. Removed driveway spacing requirements identified for Shug Jordan, EUD, and Auburn Outer Loop. Spacing along these roadways will be per the arterial standards.
2. Clarified that the average curb cut spacing requirement applies to "residential collector streets" instead of simply "collector streets" and how the calculation is performed.

Section 5.3.7 Deceleration Lanes and Tapers

1. Added reference to Appendix K for requirements for deceleration lanes.

Appendix K

1. Added notation for segments where right turn deceleration lanes are required

Appendix L

1. Updated list

Standard Details

1. Modified Streets Detail Sheet 12 to modify sidewalk requirements and identify requirements for ADA passing lanes.
2. Modified Streets Detail Sheet 13 to specify Detectable Warnings at handicap ramps as optional.
3. Added Streets Detail Sheet 25, Bus Turnout detail.

Section 7 – Drainage Section

Appendix T Stormwater Storage Facility Operation and Maintenance Agreement

1. Modified document to include owner/grantor contact information.

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RESOLUTION NO. 12-245

WHEREAS, the City Council of the City of Auburn approved and adopted the Public Works Design and Construction Manual on November 2, 2010 with an effective date of January 1, 2011; and,

WHEREAS, the City Engineer, in collaboration with the development community, finds it necessary to implement material changes (a copy of which is attached and made a part hereof) for clarification and to comply with rule changes in the industry and to make these changes effective January 1, 2013.

NOW THEREFORE, BE IT RESOLVED that the City Council of the City of Auburn, Alabama does hereby approve and accept the changes to the Public Works Design and Construction Manual effective January 1, 2013.

ADOPTED AND APPROVED by the City Council of the City of Auburn, Alabama, this the 18th day of December 2012.

BILL HAM, JR., Mayor

ATTEST:

CHARLES M. DUGGAN, JR., City Manager

Pending Updates for the Public Works Design & Construction Manual

December, 2012

Table of Contents

1. Added 5.2.4.4 and 5.3.2.4 Irrigation
2. Added 5.3.2.5 Gates
3. Added Appendix P-1 Irrigation Policy

Section 1 – General Information

Section 1.3.3.6 Bonding

1. Added a reference to the bonding amount of 125% to help reduce the forfeiting of bonds by developers.

Section 1.3.4.1 DRT Process Overview

1. Clarified language regarding meeting date and reference to the location of DRT information.
2. Changed continuance guidelines from three weeks to six months.
3. Changed denial guidelines to coincide with expiration of continuance.

Section 1.3.4.3 DRT Submittal Requirements

1. Reduced numbers of full-size copies of plans required from 2 to 1, added a PDF submittal, and require hard and digital copy of the drainage report and traffic impact study to be submitted to be consistent with current practice.
2. Clarified final submittal requirements to include recorded Stormwater Storage Facility Operation and Maintenance Agreement to be consistent with current practice.

Section 1.5 Project Completion Requirements As-Built Drawings

1. Updated reference to datum due to changes in the CORS.

Appendix A-1 Site Development Application for DRT Submittal

1. Removed reference to posting comments on the City's website due to most engineers not wanting comments posted.

Appendix A-2 Subdivision Development Application for DRT Submittal

1. Removed reference to posting comments on the City's website due to most engineers not wanting comments posted.

Appendix E-2 Amendments

1. Amendment Number 2. As the PW Manual is amended, copies of the resolution, changes, and effective date will become a part of the manual.

Section 2 – Traffic Signal Design Guidelines

Section 2.1.2 Signal Supports

1. Removed references to Pelco since Pelco no longer makes the poles.

Section 2.1.4 Communications

1. Added option for other types of communication equipment to allow flexibility in equipment.

Section 2.1.6 Power Supply

1. Clarified the type of UPS and housing requirements.

Section 2.1.7 Vehicle Detection

1. Specify detection method must be approved by the City Engineer.

Section 2.1.7.4 Wireless Detection

1. Removed reference to wireless as the preferred detection method to provide flexibility in types of detection equipment.

Section 2.1.10 Pedestrian Signal

1. Added manufacturer's information on the push button.

Section 2.1.10.1 Warrants

1. Included reference to sidewalk to the list of evaluation items.

Section 2.1.11 Intersection Lighting

1. Specified cobra head fixture manufacturer's information.

Appendix G

1. Modified notes to eliminate reference to Pelco.
2. Clarified color of ball at top of crown.
3. Added luminaire arm and assembly to the traffic signal pole assembly.

Standard Details

1. Modified Signals Detail Sheet 2 to correct signal head placement and specify pole manufacturer.
2. Modified Signals Detail Sheet 4 underground power source details.
3. Removed Pelco details for the pole, arm, and arm clamp.

Section 3 – Traffic Calming

Section 3.2.2 Speed

1. Modified speeds in Table 3.1 to include ranges.

Section 3.3 Result of Traffic Calming Analysis

1. Modified speeds to include ranges.

Section 4 – Traffic Impact Studies

Section 4.2.2 Evaluation Elements

1. Added internal site circulation and flow to the analysis to be consistent with current practice.

Section 4.2.3 Roadway Traffic Volumes/Traffic Counts

1. Extended time for use of volumes from one to two years unless the area has experienced significant traffic growth.

Section 5 – Roadway Design

Section 5.2 Roadway Design Elements

1. Added reference to the International Fire Code (IFC).

Section 5.2.4.1 Streets

1. Added reference to the ALDOT Guidelines for Operation relative to asphalt placement rates and thicknesses.
2. Added reference to the International Fire Code (IFC).

Section 5.2.4.3 Sidewalks

1. Clarified reference to collectors for sidewalk location on both sides of a roadway.

Section 5.2.4.4 Irrigation

1. Added reference to the Irrigation Policy (Appendix P-1)

Section 5.2.6.1 Design Criteria

1. Added language to allow use of an engineered, site specific driveway turnout design.

Section 5.2.10 Median Openings

1. Clarified the type, location, and length of medians.
2. Added language to specify City Council's purview for median openings on College Street and West Glenn Avenue.

Section 5.3.2.4 Irrigation

1. Added reference to the Irrigation Policy (Appendix P-1)

Section 5.3.2.5 Gates

1. Added information relative to the allowance of gates.

Section 5.3.5 Left Turn Lane Warrants at Unsignalized Intersections

1. Updated based on new NCHRP.

Section 5.3.6 Right Turn Lane Warrants

1. Updated based on new NCHRP.

Section 5.3.7 Deceleration Lanes and Tapers

1. Clarified language for requirements for deceleration lanes.

Section 5.6 Street Lighting

1. Added requirement that all new subdivisions will have street lighting installed and have lighting plans approved prior to installation.

Section 5.7 Signing and Pavement Markings

1. Added reference for solar-powered marker installation for approved mid-block crossings.

Appendix K

1. Removed street segments where right turn deceleration lanes are required.

Appendix L

1. Added Cary Creek Parkway.

Appendix N

1. Updated form to include submission contact information.

Standard Details

1. Modified Streets Detail Sheet 1 to clarify sidewalk requirement and minimum width of 4'.
2. Modified Streets Detail Sheet 2 to clarify sidewalk requirement must be waived by Planning Commission to allow use.
3. Modified Streets Detail Sheet 9 to require toewall at end of flume.
4. Modified Streets Detail Sheet 10 to allow use of an engineered, site specific driveway turnout design.
5. Modified Streets Detail Sheet 14 to denote Detectable Warnings at handicap ramps as optional and the cross slope on the bottom detail to ¼" per foot.
6. Modified Streets Detail Sheet 16 to show minimum width of multi-use path as 8' instead of 10'.
7. Modified Streets Detail Sheet 17 to show minimum width at entrance of parking area to 21' instead of 24' and extended dimension line to include gutter as requested by local engineers.
8. Modified Streets Detail Sheet 18 to extend dimension line to include gutter.
9. Modified Streets Detail Sheet 19 to extend dimension line to include gutter.
10. Modified Streets Detail Sheet 20 to replace perpendicular striping with tick marks, and reverse flow direction.
11. Updated Streets Detail Sheet 22 to reference latest International Building Code.

Section 7 – Drainage Section

Section 7.2.4 United States Geological Survey Regression Equation

1. Updated equation.

Section 7.2.5 Permeable Pavement

1. Clarified use of permeable pavement.

Standard Details

1. Added details for standard inlets with Neenah grates.
2. Updated Streets Detail Sheet 6 to require mechanical tamping around inlets.

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RESOLUTION NO. 14-19

WHEREAS, the City Council of the City of Auburn approved and adopted the Public Works Design and Construction Manual on November 2, 2010 with an effective date of January 1, 2011; and,

WHEREAS, the City Engineer, in collaboration with the development community, finds it necessary to implement material changes (a copy of which is attached and made a part hereof) for clarification and to comply with rule changes in the industry and to make these changes effective immediately.

NOW THEREFORE, BE IT RESOLVED that the City Council of the City of Auburn, Alabama does hereby approve and accept the changes to the Public Works Design and Construction Manual effective immediately.

ADOPTED AND APPROVED by the City Council of the City of Auburn, Alabama, this the 4th day of February 2014.

Mayor

ATTEST:

City Manager

Pending Updates for the Public Works Design & Construction Manual
February, 2014

Table of Contents

1. Added 5.11 Private Streets.
2. Added Appendix T-1. Stormwater Storage Facility Operation and Maintenance Agreement for Subdivisions.

Section 1 – General Information

Section 1.3.4.3 DRT Submittal Requirements

1. Removed required submittal of offsite easements for the initial submittal.
2. Added submission of required offsite easements with final submittal.
3. Changed submittal of the Stormwater Storage Facility Operation and Maintenance Agreement to be consistent with current practice.
4. Required digital copies of the final Traffic Impact Study and Drainage report with the final submittal.

Section 1.5.1 Surveying

1. Updated CORS name and reference number.
2. Updated water distribution features.
3. Updated storm water features to include outlet structure and shape.

Section 1.5.3 Submittal

1. Changed the submittal requirement to be consistent with current practice.

Section 1.6.4 Easement Language

1. Added a standard hold harmless note to cover irrigation systems.

Appendix E-2 Amendments

1. Amendment Number 3. As the PW Manual is amended, copies of the resolution, changes, and effective date will become a part of the manual.

Section 2 – Traffic Signal Design Guidelines

Section 2.1.1 Signal Heads

1. Removed references to GELcore.

Section 2.1.5 Signal Wiring, Conduit, and Junction Boxes

1. Clarified wiring installation methods to be consistent with current practice.

Section 2.1.7.3 Video Detection

1. Specify color camera instead of black and white.

Section 2.1.9 Intersection Signage

1. Changed specifications for illuminated signs to be consistent with current practice.

Section 2.1.10.3 Timing

1. Updated equation.

Standard Details

1. Modified Signals Detail Sheet 2 to show complete pole details.
2. Modified Signals Detail Sheet 4 underground power source details.

Section 5 – Roadway Design

Section 5.1

1. Added reference to plans adopted by the City and how they are incorporated into the PWDCM.

Section 5.2.4.3 Sidewalks

1. Added reference to Public Right of Way Accessibility Guidelines (PROWAG).
2. Clarified local commercial roadways to have 5' wide sidewalk.

Section 5.2.6.1 Design Criteria

1. Added language to allow additional width at the right of way for radius flares.

Section 5.2.6.5 Shared Driveways

1. Added language to specify the maximum width of a shared residential driveway.

Section 5.3.6 Right Turn Lane Warrants

1. Changed the National Cooperative Highway Research Program Report (NCHRP) from Report 279 to Report 457.

Section 5.11 Private Street

1. Incorporated language for the construction of private street.

Appendix K

1. Updated street names and segments.

Appendix L

1. Corrected the spelling of 'Mitcham' Avenue.

Appendix M

1. Added new streets

Standard Details

1. Modified Streets Detail Sheet 1 to clarify slope of greenspace for non-curb and gutter streets.
2. Added Street Detail Sheet 10A and 10B to show options for constructing sidewalks across driveway turnouts.
3. Modified Streets Detail Sheet 12 to add reference to PROWAG and added local commercial reference to 5' wide sidewalk.
4. Modified Streets Detail Sheet 13 to denote Detectable Warnings at handicap ramps as required.
5. Modified Streets Detail Sheet 14 to denote Detectable Warning Device as required.

Section 7 – Drainage Section

Section 7.4.5 Operation and Maintenance

1. Clarified submission requirements for the agreement.

Section 7.5.6 Conditional Letter of Map Revision

1. Changed the requirement of a CLOMR submission from ‘may’ to ‘will’ and adjusted when the CLOMR is needed.

Appendix T-1

1. Included an Operation and Maintenance Agreement applicable to subdivision projects.

RESOLUTION NO. 14-267

WHEREAS, the City Council of the City of Auburn approved and adopted the Public Works Design and Construction Manual on November 2, 2010 with an effective date of January 1, 2011; and,

WHEREAS, the City Engineer, in collaboration with the development community, finds it necessary to implement material changes (a copy of which is attached and made a part hereof) for clarification and to comply with rule changes in the industry and to make these changes effective January 1, 2015.

NOW THEREFORE, BE IT RESOLVED that the City Council of the City of Auburn, Alabama does hereby approve and accept the changes to the Public Works Design and Construction Manual effective January 1, 2015.

ADOPTED AND APPROVED by the City Council of the City of Auburn, Alabama, this the 16th day of December 2014.

BILL HAM, JR., Mayor

ATTEST:

CHARLES M. DUGGAN, JR., City Manager

Summary of Proposed Changes to the Public Works Design & Construction Manual (PWDCM)
December, 2014

Table of Contents

1. Added Appendix P-2 Decorative Street Signs Policy.

Section 1 – General Information

Section 1.5.3 Project Completion Requirements – As-Built Drawings

1. Added language to specify how long the City quality control check should take.

Appendix B-1 and B-2

1. Modified forms to include the project name, modified the width of the construction exit pad, and added C-POP Silt Fence.

Appendix E-2 Amendments

2. Amendment Number 4. As the PW Manual is amended, copies of the resolution, changes, and effective date will become a part of the manual.

Section 2 – Traffic Signal Design Guidelines

Section 2.1.3 Cabinet and Controller Equipment

1. Clarified the requirement for cabinets.

Section 2.1.5 Signal Wiring, Conduit, and Junction Boxes

1. Clarified the size and lid requirements for junction boxes.

Section 2.1.6 Power Supply

1. Clarified the requirement for cabinets.

Section 2.1.10 Pedestrian Signal

1. Added language referencing the Public Rights-of-Way Accessibility Guidelines' (PROWAG).

Section 2.1.10.3 Timing

1. Changed pedestrian walking time from four seconds to three seconds and referenced the MUTCD.

Appendix G Traffic Signal Notes

1. Updated notes to be consistent with current practice on type of Mast Arm Pole and Pedestrian Pole. This includes type of pedestrian pole to be used.

Section 3 – Traffic Calming

Appendix I

1. Modified the example on the form.
2. Added reference to online form.

Section 5 – Roadway Design

Section 5.2.4.3 Sidewalks

1. Added language referencing the Public Rights-of-Way Accessibility Guidelines' (PROWAG).

Section 5.7.1 Street Name Signs

1. Incorporated language from the Decorative Street Signs Policy (Appendix P-2).

Appendix M

2. Changed Corporate Drive to Corporate Parkway.

Appendix N

1. Added reference to online form.

Standard Details

1. Modified Streets Detail Sheet 6 to clarify temporary and permanent patch requirements.
2. Modified Streets Detail Sheet 14 to clarify slope requirements for handicap ramps.

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RESOLUTION NO. 15-285

WHEREAS, the City Council of the City of Auburn approved and adopted the Public Works Design and Construction Manual on November 2, 2010 with an effective date of January 1, 2011; and,

WHEREAS, the City Engineer, in collaboration with the development community, finds it necessary to implement material changes (a copy of which is attached and made a part hereof) for clarification and to comply with rule changes in the industry and to make these changes effective January 1, 2016.

NOW THEREFORE, BE IT RESOLVED that the City Council of the City of Auburn, Alabama does hereby approve and accept the changes to the Public Works Design and Construction Manual effective January 1, 2016.

ADOPTED AND APPROVED by the City Council of the City of Auburn, Alabama, this the 15th day of December 2015.

Mayor

ATTEST:

City Manager

Pending Updates for the Public Works Design & Construction Manual
December, 2015

Table of Contents

1. Added Section 5.6.4 Decorative Pedestrian Lighting.
2. Added Section 5.9.1 Transit Stops.
3. Added Section 5.12 Greenways.

Section 1 – General Information

Section 1.2.5 Acronyms and Definitions - Definitions

1. Added definition for ADA.
2. Added reference to the digital location for the standard specifications and standard details.

Section 1.3.1 Development Process – Overview

1. Added reference to the territorial jurisdiction of the City.

Section 1.3.3 Development Process – Subdivision

1. Added reference to reviews affected by the Lee County Planning Commission in the territorial jurisdiction of the City.

Section 1.3.3.4 Development Process – Engineering Plan

1. Added reference for developments in the territorial jurisdiction of the City.

Section 1.3.3.6 Development Process – Bonding

1. Added reference for street lighting requirements.

Section 1.3.4.1 Development Review Team – DRT Process Overview

1. Added review time for developments in the territorial jurisdiction of the City.

Section 1.3.4.3 Development Review Team – DRT Submittal Requirements

1. Added option for digital submittals.

Section 1.3.5 Permits

1. Added reference to departments responsible for each permit

Section 1.3.5.4 Permits – Clearing, Grading, and Utility Permit

1. Added requirement for submission of soil proctor information as part of this permit.

Section 1.4.2 Project Completion Requirements – Construction – Materials

1. Added reference to the digital location for the standard specifications and standard details.

Section 1.4.4 Project Completion Requirements – Construction – Inspection and Testing

1. Added reference for inspection of developments within the territorial jurisdiction.

Section 1.5.1 Project Completion Requirements – As-Built Drawings

1. Updated the reference to the Geoid model name.
2. Added requirements for control points and modified the horizontal and vertical accuracy of critical and non-critical points.

3. Added requirements for as-built drawings when pertaining to City maintained infrastructure.

Section 1.11.2.2 Updates and Waivers to the Manual - Procedure

1. Changed the appeal body from the Building Board of Adjustment to Planning Commission.

Appendix A-2

1. Modified form to include Lee County Review.

Appendix B-1 and B-2

1. Updated the forms to modify the water tank elevation to 820 on the pressure calculations.

Appendix E-1

1. Modified form to remove multiple waivers and provide justification area.

Appendix E-2 Amendments

1. Amendment Number 5. As the PW Manual is amended, copies of the resolution, changes, and effective date will become a part of the manual.

<u>Section 2 – Traffic Signal Design Guidelines</u>

Section 2.1.1 Signal Design Elements – Signal Heads

1. Clarified the type and color of mounting hardware and positioning of signal heads.

Section 2.1.2 Signal Design Elements – Signal Supports

1. Removed reference to separation requirements.

Section 2.1.3 Signal Design Elements – Cabinet and Controller Equipment

1. Modified the requirement for cabinets.

Section 2.1.4 Signal Design Elements – Communications

1. Clarified how equipment is handled when an intersection is modified or upgraded.

Section 2.1.5 Signal Design Elements – Signal Wiring, Conduit, and Junction Boxes

1. Added requirements for wiring when an intersection is modified or upgraded.
2. Clarified requirements for conduit.

Section 2.1.6 Signal Design Elements – Power Supply

1. Clarified how the power source is determined and changed the battery backup part number.

Section 2.1.7 Signal Design Elements – Vehicle Detection

1. Modified the requirement for video detection when an intersection is newly signalized or modified.
2. Clarified the requirements for loop wire.

Section 2.1.7.3 Signal Design Elements – Video Detection

1. Modified video detection requirements to include bicycles.
2. Added color requirement for cameras and mounting hardware.

Section 2.1.9 Signal Design Elements – Intersection Signage

1. Clarified requirements for illuminated signs.

Section 2.1.10 Pedestrian Signal

1. Clarified requirements for mounting hardware.
2. Modified requirements for pedestrian push buttons, including signage and Polera settings.

Section 2.1.11 Intersection Lighting

1. Clarified luminaire assembly fixture type.

Section 2.4 Construction

1. Added notification requirement to beginning work.

Section 2.4.3 Inspection

1. Added inspection requirements for traffic signals.

Appendix H

1. Added Sheet 5- Decorative Pedestrian Light detail.
2. Added Sheet 6 – Pedestrian Push Button Pole detail.

<u>Section 5 – Roadway Design</u>

Section 5.2.4.3 Roadway Design Elements – Sidewalks

1. Clarified cross slope requirements for sidewalk.
2. Added requirements for streetscape improvements within the Downtown Area, to include wider sidewalks, street trees, and decorative lighting.
3. Clarified sidewalk termination grading requirements.
4. Added inspection requirements for sidewalk within the right of way.
5. Added requirements for street trees, including tree wells, brick color, and Silva Cells.

Section 5.2.7.2 Roadway Design Elements - Bicycle and Pedestrian Facilities – Bicycle Lanes

1. Modified reference to design requirements for bicycle lanes.

Section 5.2.7.3 Roadway Design Elements - Bicycle and Pedestrian Facilities – Shared Roadway

1. Modified reference to design requirements for shared roadways.

Section 5.3 Intersection Design Elements

1. Added language regarding street jogs.

Section 5.6.4 Street Lighting – Decorative Pedestrian Lighting

1. Added requirements for decorative street lighting.

Section 5.8 Right-of-way Planting

1. Added requirements for street trees, including tree wells, brick color, and Silva Cells.

Section 5.9.1 Access Management and Coordination - Transit Stops

1. Added requirement for transit stops for purpose built student housing.

Section 5.12 Greenways

1. Added requirements for greenways.

Appendix K

1. Changed Richland Road segment.
2. Added segment to Wire Road.

Appendix L

1. Added directional points to seven (7) collector roads.
2. Added six (6) collector roads.

Appendix O

1. Modified Streets Detail Sheet 11 to specify minimum sidewalk cross slope, add a requirement for joint sealant, and make the expansion material consistent.
2. Modified Streets Detail Sheet 17 to clarify width requirements at landscaped islands.
3. Added Sheet 29 Silva Cell detail sheet.
4. Added Sheets 30 through 35 Tree Well and Grate detail sheets.
5. Added Sheet 36 Bus Turnout detail.
6. Added Sheet 37 Right In Right Out detail.
7. Changed all applicable slopes on details to percent instead of fractional representations.
8. Changed all applicable slopes on sidewalk details to include word ‘Maximum’.
9. All sheets were renumbered due to the additional sheets.