

Charlotte Department of Transportation Land Development Site Plan Checklist ²⁰⁰⁸

Rev	tact: Date Reviewed: Telephone: Telephone:
This spec requ	is a document generated to facilitate consistent plan reviews. Additional requirements may be necessary based on site- ific conditions. Sections highlighted in gray are informational for CDOT and used in the review of related irements. Engineering and Property Management will review and comment on these items.
I.	GENERAL SUBMITTAL REQUIREMENTS
	Parcel Tax Number Zoning: Rezoning Petition Number: Conditional Notes/Plan Attached: Site Jurisdiction: □ City Limits □ ETJ (Extra Territorial Jurisdiction) City maintained street NCDOT maintained street Plans are sealed and dated as complete design Site Plan sheet Vicinity map North Arrow [See Section XV for additional requirements]
	Site Plan sheetVicinity mapNorth Arrow [See Section XV for additional requirements] Title Block with site/development name Property lines, right-of-way (ROW) lines, setback lines & easements- shown and labeled Existing and proposed curblines, sidewalks, paved areas, and buildings/structures Street cross-sections/design - Charlotte Land Development Standards Manual (CLDSM) If project is within the ETJ or connecting to a NCDOT maintained street, improvements must also meet the NCDOT's design standards/requirements.
	If project is adjacent to an existing and/or planned CATS route or corridor, coordinate with CATS/Transit Oriented Development Specialist Tina Votaw 704.432.3013 and visit www.ridetransit.org for more information.
II.	STREET CLASSIFICATION/TYPICAL CROSS-SECTION
	Street Classification (Thoroughfares, Class I- IV; Collectors, Class V/V-C; Residential, Class VI/VI-L) Source: Mecklenburg-Union Metropolitan Planning Organization (MUMPO) Thoroughfare Plan; Charlotte Major Collector Street Plan; and Subdivision Ordinance Transitional Setback [Zoning Ordinance 12.103] Typical street cross-sections (conformance with CLDSM or adopted small area plans, pedscape plans, or other approved plans) Bikeway Improvement Plan- may require additional improvements/right- of-way Conditional Rezoning Site Plans- conformance with additional required transportation improvements/right-of-way

Class I	Freeway/Expressway	350 feet of R/W*	
Class II	Limited Access Thoroughfare	200 feet of R/W*	
Class III-C	Commercial Arterial	150 feet of R/W*	
Class III	Major Thoroughfare	100 feet of R/W*	[CLDSM 11.09]
Class IV	Minor Thoroughfare	70 feet of R/W*	[CLDSM 11.09]
Class V-C	Commercial Collector	60 feet of R/W	[CLDSM 11.11
	Divided Commercial Collector	62 feet of R/W	[CLDSM 11.12
Class V	Residential Collector	60 feet of R/W	[CLDSM 11.06, 11.07]
_	Limited Residential Collector	60 feet of R/W	[CLDSM 11.08
Class VI	Local Residential	50 feet of R/W	[CLDSM 11.01, 11.02]
_	Divided Residential	62 feet of R/W	[CLDSM 11.03]
Class VI-L	Local Limited Residential	40 feet of R/W	[CLDSM 11.04, 11.05]
_	Neighborhood Development Street	45 feet of R/W	[CLDSM 11.10
* Additional r streets.	ight-of-way requirements may be ne		y CDOT/NCDOT for thoroughfare inance 7.110; Zoning Ordinance 12.103
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_ Private Stree			[CLDSM 11.13]
_ Divided Priv	vate Street		[CLDSM 11.14]
Residential .	Alley One-Way Operation Alley Two-Way Operation, Single L Alley Two-Way Operation, Double		[CLDSM 11.19C]
Residential .	Alley Two-Way Operation, Single L Alley Two-Way Operation, Double		[CLDSM 11.19A] [CLDSM 11.19C] [CLDSM 11.19B]
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III.

IV. STREET TERMINATIONS

V.

CUL-DE-SACS City of Charlotte/ETJ Residential Cul-de-sa	ac	[CLDSM 11.16]
Oversized Residential Cul-de-sac with Rais		[CLDSM 11.21]
Commercial Cul-de-sac		[CLDSM 11.17]
GMD VIDE GMV ID G		
STREET STUBS		[CI DCM data:1 50 07 A /D50 09 A /D]
End-of-roadway barrier/markers Profiles for the extension of street stubs mu	and he always tring into	[CLDSM detail 50.07A/B50.08A/B] [Subdivision Ordinance 6.400]
existing grade within 300 feet of the phase/		[Subdivision Ordinance 0.400]
Private street stubs and drive aisles require		ds) cross-access agreement allowing the
adjoining parcel(s) cross-access rights. The ingress, egress, regress, passage and delive This agreement needs to be referenced on t before the certificate of occupancy is issued	e access agreement is a non-early by vehicles between the piche plans and a copy of the re	exclusive easement for the purposes of proposed property and the adjacent parcel.
HAMMERHEAD		
Residential hammerhead		[CLDSM 11.18]
Private residential alley hammerhead		[CLDSM 11.20]
PUBLIC STREET DESIGN (Rolling Terrain) (Use of level or hilly terrain criteria not permitt Management Review Engineer)	ed without prior approval	of the Engineering and Property
(Use of level or hilly terrain criteria not permitt Management Review Engineer)	ed without prior approval o	
(Use of level or hilly terrain criteria not permitt Management Review Engineer) HORIZONTAL ALIGNMENT	ed without prior approval o	of the Engineering and Property [CLDSM Standards of Street Design]
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(Use of level or hilly terrain criteria not permitt Management Review Engineer) HORIZONTAL ALIGNMENT	eed without prior approval of the control of the co	
(Use of level or hilly terrain criteria not permitt Management Review Engineer) HORIZONTAL ALIGNMENT Minimum centerline radius Local Residential Street	- 150 feet - 250 feet	
(Use of level or hilly terrain criteria not permitt Management Review Engineer) HORIZONTAL ALIGNMENT Minimum centerline radius Local Residential Street Collector Street	- 150 feet - 250 feet	
(Use of level or hilly terrain criteria not permitt Management Review Engineer) HORIZONTAL ALIGNMENT Minimum centerline radius Local Residential Street Collector Street Minimum tangent between horizontal rever Local Street Collector Street	- 150 feet - 250 feet rse curves - 50 feet - 100 feet	[CLDSM Standards of Street Design]
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VI.	PRIVATE STREET DESIGN		[CLDSM 11.13, 11.14]
	HORIZONTAL ALIGNMENT		
	Minimum centerline radius	- 50 feet	
	VERTICAL ALIGNMENT		
	Maximum grade	- 10 percent	
	Minimum K value (Crest/Sag)	- 10/20	
VII.	CURB AND GUTTER REQUIREMENT	TS	
	SINGLE FAMILY DEVELOPMENTS 2'-0" valley gutter or standard 2'-6" residential collector streets.	curb and gutter is required along all cul-de-sac	[Subdivision Ordinance 8.110] s, local residential streets, and
		L DEVELOPMENTS curb and gutter is required on residential local aired along commercial and thoroughfare street	
	2'-6" standard curb and gutter is required by Engineering and Property	aired on thoroughfare streets and on other stree	[Chapter 19] ts as listed above where
	* NCDOT approval required for curb	o/gutter installations on Class II thoroughfares	
	cross-sections.	the minimum curbline locations as dimensioned arterials must meet the minimum curbline locations	
VIII.	CULVERT CROSSINGS/RETAINING	WALLS/HANDRAILS	
	Culvert Crossing		[CLDSM 10.36]
	-	ine if handrails or guardrails are warranted.	
	Handrail Design and Warrants		[CLDSM 50.04]
	Guardrail Design A full guardrail design of sufficient length	must be provided, including end treatments/im	[NCDOT 862.01]
		aled by a North Carolina Registered Profession	
	design experience. All relevant NCDOT s	tandard details for guardrail must be provided	
	in and of themselves.		[CLDSM 10.39]
	Retaining Wall Design Proposed retaining walls that structurally s	support a public street must be designed and con	
	North Carolina Registered Professional En	igineer with retaining wall experience and submand profile view with cross-sections at even sta	nitted to CDOT for review.

The placement of the accessible ramps Truncated domes on all accessible ramps Accessible ramp at sidewalk termination at the cul-de-sac bulb Truncated domes on all accessible ramps Accessible ramp at sidewalk termination at the cul-de-sac bulb Truncated domes on all accessible ramps Accessible ramp at sidewalk termination at the cul-de-sac bulb Truncated domes on all accessible ramps Accessible ramp at sidewalk termination at the cul-de-sac bulb Truncated domes on all accessible ramps Truncated Development (TOD) Truncated Developmen	IX.	ACCESSIBLE RAMPS Accessible Ramps are required at each corner radius	curb return where sic	[CLDSM 10.31, 10.32, 10.33, 10.34] dewalk is required.		
Truncated domes on all accessible ramps Accessible ramp at sidewalk termination at the cul-de-sac bulb Sidewalks are required on both sides of all new or existing thoroughfare streets, collector streets, and local residential streets with exemptions stated on the typical cross-section details CLDSM 11.04,11.05, and 11.16 and within the Subdivision Ordinance. Minimum sidewalk widths Local Residential Streets 4 feet Subdivision Ordinance 8.140 Thoroughfare Streets 4 feet Subdivision Ordinance 8.140 Thoroughfare Streets 5 feet CLDSM 11.09 Urban Residential (UR) Mixed Use Development District (MUDD) Septiborhood Services District (NS) Transit Oriented Development (TOD) Center City Transportation Plan. Additional sidewalk requirements may be determined by a small area plan, pedscape plan, or other plans which may be adopted by City Council. NCDOT approval is needed for installation of sidewalk or to face of building, whichever is less. XI PLANTING STRIPS Planting Strips are required along all new or existing thoroughfare streets, collector streets, and local residential streets where sidewalk is required. The planting strip widths Local Residential Streets 4 feet [CLDSM Typical Street Cross- sections] Collector Streets 4 feet [CLDSM Typical Street Cross- sections] Thoroughfare Strips are required along all new or existing thoroughfare streets, collector streets, and local residential streets where sidewalk is required. The planting strip widths Local Residential Streets 4 feet [CLDSM Typical Street Cross- sections] Thoroughfare Streets 4 feet [CLDSM Typical Street Cross- sections] Thoroughfare Streets 4 feet [CLDSM Typical Street Cross- sections] Thoroughfare Streets 4 feet [CLDSM Typical Street Cross- sections] Thoroughfare Streets 4 feet CLDSM Typical Street Cross- sections Thoroughfare Streets 4 feet CLDSM Typical Street Cross- sections Thoroughfare Streets 4 feet CLDSM Typical Street Cross- sections Thoroughfare Streets 4 feet CLDSM Typical Street Cross- sectio	-			-		
X. SIDEWALK Sidewalks are required on both sides of all new or existing thoroughfare streets, collector streets, and local residential streets with exemptions stated on the typical cross-section details CLDSM 11.04,11.05, and 11.16 and within the Subdivision Ordinance. [Subdivision Ordinance 8.140] Minimum sidewalk widths Local Residential Streets				[CLDSM 10.35B		
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with exemptions stated on the typical cross-section details CLDSM 11.04,11.05, and 11.16 and within the Subdivision Ordinance. S.140] Minimum sidewalk widths Local Residential Streets	х.	SIDEWALK				
Ordinance Minimum sidewalk widths Local Residential Streets -4 feet Subdivision Ordinance 8.140 Collector Streets -4 feet Subdivision Ordinance 8.140 Thoroughfare Streets -5 feet Subdivision Ordinance 8.140 Urban Zoning districts -5 feet Urban Zoning districts Urban Residential (UR) Mixed Use Development District (MUDD) Neighborhood Services District (NS) Transit Oriented Development (TOD) Viptom Mixed Use District (UMUD) must be in conformance with the adopted Zoning Ordinance 9.1209 Uptown Mixed Use District (UMUD) must be in conformance with the adopted Zoning Ordinance 9.9050 Center City Transportation Plan. Additional sidewalk requirements may be determined by a small area plan, pedscape plan, or other plans which may be adopted by City Council. NCDOT approval is needed for installation of sidewalk on Class II Thoroughfares Sidewalk located outside the R/W must be on a permanent easement dedicated to the City of Charlotte. The sidewalk easement extends from R/W to 2 feet behind back of sidewalk, or to face of building, whichever is less. XI PLANTING STRIPS Planting Strips are required along all new or existing thoroughfare streets, collector streets, and local residential streets where sidewalk is required. The planting strip width is the distance between the back-of-curb and gutter to the front of the sidewalk. Minimum Planting Strip Widths Local Residential Streets -4 feet [CLDSM Typical Street Cross-sections] Thoroughfare Streets -4 feet [CLDSM Typical Street Cross-sections] Thoroughfare Streets -4 feet [CLDSM Typical Street Cross-sections] Urban Residential (UR) Nixed Use Development District (MUDD) Zoning Ordinance 9.8506 Neighborhood Services District (MUDD) Zoning Ordinance 9.8506 Center City Transportation Plan. Additional planting strip requirements may be determined by a small area plan, pedscape plan, or other plans which may be adopted by City Council.						
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Local Residential Streets	Ordin			[Subdivision Ordinance 8.140]		
Collector Streets						
Thoroughfare Streets -5 feet Urban zoning districts -6 feet Urban Residential (UR) [Zoning Ordinance 9.4070] Mixed Use Development District (MUDD) [Zoning Ordinance 9.8506] Neighborhood Services District (NS) [Zoning Ordinance 9.8506] Neighborhood Services District (NS) [Zoning Ordinance 9.8506] Transit Oriented Development (TOD) -8 feet [Zoning Ordinance 9.1209] Uptown Mixed Use District (UMUD) must be in conformance with the adopted [Zoning Ordinance 9.9050] Center City Transportation Plan. Additional sidewalk requirements may be determined by a small area plan, pedscape plan, or other plans which may be adopted by City Council. NCDOT approval is needed for installation of sidewalk on Class II Thoroughfares Sidewalk located outside the R/W must be on a permanent easement dedicated to the City of Charlotte. The sidewalk easement extends from R/W to 2 feet behind back of sidewalk, or to face of building, whichever is less. XI PLANTING STRIPS Planting Strips are required along all new or existing thoroughfare streets, collector streets, and local residential streets where sidewalk is required. The planting strip width is the distance between the back-of-curb and gutter to the front of the sidewalk. Minimum Planting Strip Widths Local Residential Streets -4 feet [CLDSM Typical Street Cross-sections] Collector Streets -4 feet [CLDSM Typical Street Cross-sections] Thoroughfare Streets -4 feet [CLDSM Typical Street Cross-sections] Urban zoning districts -8 feet Urban Residential (UR) Mixed Use Development District (MUDD) Additional planting strip requirements may be determined by a small area plan, pedscape plan, or other plans which may be adopted by City Council.						
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Additional right-of-way may be required to include the entire planting strip within the right-of-way.		3 1 3 3				
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XII CDOT SIGHT DISTANCE REQUIREMENTS

through street

Within all sight distance and cross visibility triangles no structure, sign, plant, shrub, tree, berm, fence, wall, or other object of any kind shall be installed, constructed, set out or maintained so as to obstruct visibility at a level between 30 and 72 inches above the level of the center of the street intersection. [Zoning Ordinance 12.109]

INTERSECTION-APPROACH SIGHT TRIANGLES*	[Zoning Ordinance 12.109]
For private streets and driveways connecting to a public street the intersection	
triangles are measured along right-of-way of public street and face-of-curb street/driveway	
At public street, private street, and Type III driveway connections to public st	treets, whichever is
greater:	
-35 feet x 35 feet measured along the rights-of-way or -50 feet x 50 feet measured in both directions along the curb or pavement edg	ge from the center
point of the corner radius	
Sight distance triangles at all public street, private street, and driveway conne	ections to NCDOT
maintained roadways regardless of zoning (City Limits and ETJ):	
-10 feet x 70 feet measured along rights-of-way	
Intersection-approach and pedestrian sight triangles must be shown on the deformany portion of these triangles that are located outside the right-of-way distance easement must be provided.	
* Exempted in the Urban Residential (UR), Urban Industrial (UI), Uptown Neighborhood Services District (NS)	Mixed Use District (UMUD), and
PEDESTRIAN SIGHT TRIANGLES	
Pedestrian sight triangles are needed for driveways intersecting with public are located at the setback line in urban zoning districts:	streets, particularly when structures
-10 feet x 10 feet with one leg measured along the back-of-sidewalk or rigid distance from the curb line) and the other leg measured along the driveway fa	
INTERSECTION SIGHT DISTANCE	
Adequate Intersection Sight Distance (ISD) to be provided at all proposed pul	blic street
connections, private street connections, and Type II/III driveways to existing Sight Distance Policy and AASHTO's A Policy on Geometric Design of High Proposed street and Type II/III driveway connections to all Class V & VI stre	hways and Streets, current edition]
ISD is measured from a point 10 feet back from the projection of the through	
in the outbound lane of the proposed connection to the center of the nearest a Proposed street and Type II/III driveway connections to all Class I - IV street	pproaching lane in both directions*
ISD is measured from a point 15 feet back from the projection of the through in the outbound lane of the proposed connection to the center of the nearest at	street curb line/edge of pavement
Driver's eye height- 3.5 feet; approaching vehicle height- 3.5 feet	pprouding imit in com uniterioris
ISD must be shown in both horizontal and vertical dimensions (plan/profile) a roadway centerline	along the sight line, not the
ISD evaluation may be required at existing intersections adjacent to the site	
* Reference CDOT's Sight Distance Policy for required sight distance length	based on the design speed of the

STOPPING SIGHT DISTANCE
The minimum stopping sight distance must be available to the driver at all locations on public streets. Stopping sight
distance applies to horizontal as well as vertical alignments.
Horizontal Stopping Sight Distance
Measured along the centerline of the inside lane around the curve and the line of sight is a straight line between
two points on the centerline of the lane
Vertical Stopping Sight Distance
Measured on a straight line between the driver's eye and an object on the roadway surface. The height of the driver's eye traveling in a passenger car shall be measured at 3.5 feet above the roadway surface and the object shall be 2.0 feet above the roadway surface.
New streets whose geometry causes the line-of-sight for stopping sight distance to extend
outside the right-of-way will require sight-distance easements for the balance on the proposed site or their alignments must be revised to provide the required sight distance.
* Reference CDOT's Sight Distance Policy and AASHTO for required sight distance length based on the design speed of the through street
CONNECTIVITY STREETS AND STREET STUB REQUIREMENTS [Subdivision Ordinance 6.200] A network of streets shall be provided. Streets shall be set up to facilitate the most favorable development of the entire area, which may require providing a connection to a nonresidential land use. One stub per adjacent parcel may not be sufficient. Opportunities to reduce vehicle-miles of travel (VMT) are very important; such opportunities may occur from shortening travel distances, connecting different land uses, or both. [Transportation Action Plan (TAP) Objective 2.9]
Connectivity is required to adjacent parcels under the following circumstances:
a cul-de-sac is generally not permitted by the Subdivision Ordinance
an existing street stub is present that must be connected
a parcel is landlocked
a parcel is undeveloped it would facilitate the most advantageous development of the entire area
it provides a network of interconnected streets
it would create/set up a second means of access for the site
it establishes a street parallel to a thoroughfare, preventing a series of cul-de-sacs accessing the thoroughfare the maximum block length of 1,000 feet must be met [Subdivision Ordinance 7.150]
BICYCLE FACILITIES If a street connection is infeasible or impractical, a 10-foot shared bicycle/pedestrian path can be required in lieu of the street connection. If the path is to be public, it must meet ADA requirements. This site abuts an existing/proposed multi-use path/bicycle facility. A 10-foot-wide pedestrian/bicycle connection needs to be made.

XIII

GREENWAY FACILITIES

Streets should be designed to assure convenient access to greenways. Coordinate with Mecklenburg County Park & Recreation about connecting to the greenway.

REGULATORY and WARNING SIGNS	[Manual on Uniform Traffic Control Devices]
Standard Manual on Uniform Traffic Control Devices must be indicated at all private Type III driveway/stree by the developer	s (MUTCD) Stop (R1-1, 30"x30") signs set connections to a public street and noted to be installed
Standard MUTCD Stop signs (R1-1, 30"x30") should intersections and noted to be installed by the developed	
Stop signs are not necessary for Type II driveways Standard MUTCD Keep Right signs (R4-7, 24"x30")	must be indicated at each and of proposed
medians that are adjacent to 2 or more travel lanes in Standard MUTCD signage for Round-a-bouts[CLDS]	each direction and noted to be installed by the developer M 50.11]
Standard MUTCD Do Not Enter signs (R5-1, 30"x30 entering one-way driveway or drive aisles	") must be provided to prevent vehicles from
DRIVEWAYS/SITE PLAN REVIEW	
CDOT has authority to regulate street and driveway connection accordance with the City's <i>Driveway Regulations</i> . Left and a control turning movements, median closures, as well as other and commercial building permit process. Additionally, a tradevelopment's proposed access and impact to the adjacent streets connections to state maintained streets in the City and ETJ	right-turn lanes that serve the development, medians to improvements may be required during the subdivision fic impact study may be required to evaluate the
·	[eny code section 15 51]
SITE PLAN REQUIREMENTS North Arrow and vicinity map	
Scale- not greater than 1"=20' nor less than 1"=50'	
Location of existing and proposed street rights-of-wa	v property lines and setback lines
Location of existing and proposed driveways adjacen	tonnosite and on the property
Location of existing and proposed sidewalks adjacent	opposite, and on the property
Location of existing and proposed sidewalks adjacent Location of existing utilities Location of existing utilities	, 11 , 1 1
Vertical profile for each proposed driveway Parking summary of existing, required, and proposed	
Parking summary of existing, required, and proposed	parking spaces
Layout of existing/proposed parking spaces	
Arrangement of parking aisles including pavement m	arkings
Internal provisions for vehicular and pedestrian flow,	including accessible ramps
Designate the limits of the private street	
SITE PLAN DESIGN REQUIREMENTS	
Vehicle Overhang	[CLDSM 50.09B]
Sidewalks/pedestrian paths located adjacent to front-i	1 0 1
minimum of 7 feet in width to eliminate pedestrian/ve can be met with either a 7-foot wide sidewalk or a 2-f wide sidewalk.	1
Loading Spaces	
Location, type/size, number, design vehicle type, and Maneuvering not permitted in right-of-way or setback	
Waste Collection	-
Location, container type (dumpster, roll-out, etc.), demanded Maneuvering not permitted in right-of-way or setback	

Pedestrian Connectivity	
Provide internal pedestrian circulation system	[Zoning Ordinance 12.201]
Traffic Control Signs and Pavement Markings	
STOP signs required at all Type III driveways	
All internal traffic control (regulatory, warning, and guide) signs and	[North Carolina General Statutes]
pavement markings in public vehicular areas (private parking lots) must	conform
with the <i>Manual on Uniform Traffic Control Devices</i> (MUTCD)	
Multi-family/townhouse developments	[Zoning Ordinance 9.303]
Minimum 5-foot offset is necessary between the edge of the drive lane an	
front of each garage to provide drivers adequate visibility of backing veh	nicles. [CLDSM 11.19]
Minimum 20-foot offset needs to be provided between the back of the	
sidewalk and the front of each garage to allow sufficient area for vehicle	parking without blocking the sidewalk
Parking Spaces	
On-Street Parallel Parking Spaces considered on a case-by-case basis	[CLDSM 50.09C]
Parallel parking spaces along all streets need to be at least 7 feet wide and	d 22 feet long
Parallel parking spaces must be located at least 20 feet from the driveway	y/street radius return
Parking space dimensions, aisle widths, and parking angles	[CLDSM 50.90A]
Compact vehicle spaces	[Zoning Ordinance 12.204]
Limited to 25% of total required parking amount. Must be grouped and	not located randomly within parking
bays	
Shared Parking on adjacent property	
Provide address/location, number, % of required parking, design, and cop	py of required legally binding written
agreement between the owner of the parking area and the owner of any u	ise located on a different parcel and
served by the parking area	
Parking Decks must be designed in accordance with CLDSM and CDOT	
Architectural plans for covered parking must be included with all submit	tals to review the circulation and
parking configuration	
Handicap Parking space details CLDSM 50.10 A, B, and C must be prov	vided in the plan set when proposing
handicap parking	
DRIVEWAY TYPES	
	[CLDSM 10.24, 10.25A, 10.25C, 10.27]
Use only for 3 or fewer residential units	
Type II - Commercial drop curb/ramp type driveway	[CLDSM 10.24, 10.25B, 10.25D]
Use for driveways with a planting strip less than 6 feet in width or a side	walk of at least 4 feet
Type II - Modified - Commercial ramp-type driveway with radii	
Use for driveways with a planting strip of at least 6 feet in width	
The radii of the Type II- Modified driveway needs to be equal to the plan	
A Type II- Modified driveway cannot be used where valley gutter is insta	alled
Type III - Street-type driveway	[CLDSM 10.28]
Use for high traffic volumes, direct access with left or right-turn lanes, ar	nd driveways with a significant number
of tractor-trailer trucks (WB-40 and larger design vehicles)	
Type IV	[CLDSM 10.25F]
Use on streets without curb/gutter and where no curb/gutter is required	

DRIVEWAY DESIGN ELEMENTS		[CDOT Driveway Regulations]
Driveway Angle		
90° for all driveway types, mea	sured between the driveway and str	reet curbline or edge of pavement.
Driveway Alignment		
	n a case-by-case basis if they are o	ith proper lane alignment maintained. Offset ffset in a location that does not create
	sufficient storage lanes within the d	avalanment
Internal Channelization	difficient storage ranes within the d	everopment.
Type III driveways must have a	minimum of 150 feet of internal c vehicles and/or vehicles circulating	hannelization to eliminate possible conflicts of within the site.
Provide location of gates and ga	ate control equipment.	
		the card reader and the street right-of-way,
	back-of-sidewalk, whichever is gr	
	equests, turnarounds may be requir	
Gates must be approved by the	Charlotte Department of Transport	ration
NUMBER/SPACING OF DRIVEWA		
		ll be considered on a case-by-case basis
provided that spacing requirement		
Type	Number/Spacing of proposed	Separation from Existing
Type I and II	2/20 feet; 3/50 feet	20
Type II- Modified		20*
Type III	400 feet*	400*
* measured from beginning of	driveway radius at street curbline	
Note: Proposed driveways to public str the right-of-way/setback, labeled by typ		7-1, DW-2, DW-XX, etc.), dimensioned at cessary.
DRIVEWAY WIDTHS		
Type I, II, and Type II-Modified	d- measured setback line	

Type III (full movement)

Type II- Modified (one way)

Type II- Modified (two-way)

Type III (restricted movement)

Type II (one way)

Type II (two-way)

Type III- measured face to face of curb

<u>Type</u> Type I

Note: Driveway widths need to be maintained through the setback. Beyond the setback line the driveway width can be reduced/tapered to a width adequate for the proposed circulation and parking configuration.

Minimum Width

15 feet*

20 feet

26 feet

20 feet

26 feet

38 feet

26 feet

Maximum Width

30 feet

30 feet

50 feet

30 feet

50 feet

60 feet

32 feet

^{* 10} feet on residential streets

DRIVEWAY RADIUS

- * Radius equal to planting strip width. Ramp terminates at front edge of sidewalk with 6" curb height transitioning out (to 0") to maintained sidewalk grade.
- ** Radius equal to planting strip + sidewalk width. Ramp terminates at front edge of sidewalk with 6" curb height transitioning out (to 0") to maintained sidewalk grade. Radius continues as a 6" concrete band through the sidewalk at grade.

DRIVEWAY SIDE CLEARANCE FROM PROPERTY LINE

TypeMinimum ClearanceType I and II10 feet*Type II-Modifed10 feet + radiusType III150 feet**

- * Where a Type I or II driveway exists on an adjacent property, no less than 20 feet shall separate the proposed driveway from the existing driveway.
- ** Where a Type III driveway, private street, or public street exists adjacent to the proposed driveway, a minimum clearance of 400 feet is necessary. Additional side clearances may be necessary where right-turn lanes are required.

DRIVEWAY SEPARATION FROM OTHER STREETS OR DRIVEWAYS

Type	Minimum Separation
Type I and II	20 feet
Type II- Modified	20 feet*
Type III	400 feet*

^{*} Measured from beginning of driveway radius at street curbline

DRIVEWAY CORNER CLEARANCE TO PUBLIC OR PRIVATE STREET

TypeMinimum ClearanceType I and II20 feet*Type II- Modified20 feet**Type III300 feet**

- * Measured from end of the street corner radius
- ** Measured from end of street corner radius to the beginning of driveway radius at the street curbline.

XVI TRANSPORTATION IMPROVEMENTS

Transportation improvements may be required through the development review process. CDOT has the authority to regulate street and driveway connections to public streets within the City and ETJ in accordance with the City's *Driveway Regulations*. Left and right-turn lanes that serve the development may be required during the subdivision and commercial building permit processes. Additional and offsite transportation improvements may be required to mitigate the impacts of a proposed development as identified in a traffic impact study reviewed/approved by CDOT during the rezoning process and committed to by the petitioner/developer in a conditional site development plan.

The construction plans for any required transportation improvements must include 3 separate/distinct plans: road improvements, traffic control/maintenance or traffic, and pavement markings.

TURN LANES	
Scale- not greater than 1"=20' nor less than 1"=50'.	
Left-turn lanes are required for developments that generate more than 500 trips per day.*	
Right-turn lanes may be required a major Type III driveways.*	
"Left-overs" may be required to prohibit left-turn and through movements at Type III dri	iveways
or intersections.	[CLDSM 50.13]
* Turn lanes must be designed to the standards listed on pages 78-79 of the <u>NCDOT's Polity Driveway Access to North Carolina Highways</u> with the exception of a minimum storage	
ROAD IMPROVEMENTS	
Scale- not greater than 1"=20' nor less than 1"=50'.	
The geometric design of all roadway and intersection improvements must meet the require Public Street Design.	rements in Section V.
Developer is responsible for acquiring any offsite right-of-way needed to construct requir	red offsite
transportation improvements. Right-of-way (existing) along any required offsite improve	
verified with survey information (i.e., property corners identified by iron pins); tax maps	are not sufficient
verification.	
Verification of right-of-way acquisition/dedication is necessary prior to construction of an	ny required
transportation improvements.	
Completion, inspection, and acceptance by the City/NCDOT of all required transportation	n improvements is
required prior to the issuance of a Certificate of Occupancy.	. 14.
Construction plans for street/intersection improvements need to include, but are not limited	
existing/proposed rights-of-way, widths, location of existing and new curb/gutter and/or	
pavement/shoulder/ditch, storage lengths of existing turn lanes, existing traffic signal pol- utilities/other objects, and overlay and milling limits required by CDOT/NCDOT.	es, conflicting
CROSS-SECTIONS	
Cross sections in accordance with CLDSM and City/NCDOT Cross Section Requirement.	s; scale of 1"=5' for
both vertical and horizontal dimensions.	
The engineering, design, and construction of the left-turn lane are the responsibility of the	e developer, and a
registered professional engineer with roadway design experience must complete the design	gn.
PAVEMENT MARKINGS/SIGNING	
Scale- not greater than 1"=20' nor less than 1"=50'.	
The pavement marking plans need to include all proposed pavement markings and NCDO	
markers. All pavement markings must be retroreflective thermoplastic, dimensioned, and	d conform to all CDOT
standards.	
All pavement markings need to be designed in accordance with CDOT's 2004 Pavement	Markings Standard

	TRAFFIC CONTROL
	Scale- not greater than 1"=20' nor less than 1"=50'.
	The traffic control plan needs to be designed in accordance with USDOT's Manual on Uniform
	Traffic Control Devices and CDOT's WATCH handbook. All traffic control plans must be designed specific to
	the proposed widening improvement. Standard diagrams will not be acceptable.
	TRAFFIC SIGNALS
	Any costs to modify an existing traffic signal installation made necessary by the construction of required improvement(s) are the responsibility of the developer. The costs may include, but are not limited to, the
	relocation of signal poles, controller, loop detectors, and pavement markings.
	The developer shall contact the Charlotte Department of Transportation (Gus Jordi, 704-336-7086) to identify any conflicts with traffic signal equipment. At least 60- 90 days will be required to coordinate relocation. Developer shall be responsible for all related relocation costs and/or any repair costs resulting from damages caused by the contractor/developer.
XVII.	RIGHT-OF-WAY
	Developer is responsible for acquiring any offsite right-of-way (r/w) needed to construct required offsite
	transportation improvements. Should the developer not be able to acquire the necessary right-of-way and
	construction easements, the City will assist in the acquisition in accordance with the City's "Offsite R/W
	Acquisition Process". This process is administered by the Engineering & Property Management.
	Prior to plat recordation, offsite r/w and/or construction easements are required to be obtained. R/W and construction limits must be clearly shown on the roadway improvement plans.
XVIII.	RIGHT-OF-WAY ENCROACHMENTS
	All plans submitted must have note on the plans stating a Right-of-Way Encroachment Agreement is required for the
	installation of all non-standard items (irrigation systems, decorative concrete pavement, brick pavers, etc.) within a
	proposed/existing City maintained street right of way by a private individual, group, business, or
	homeowner's/business association.
	CDOT will review and evaluate the design and installation of all such requests during the
	encroachment process and may require modifications. CDOT may not approve all such requests.
	An encroachment agreement must be approved by CDOT prior to the construction/installation of
	the non-standard items.
	Contact CDOT for additional information concerning cost, submittal and liability insurance
	coverage requirements.
	If the existing street is maintained by NCDOT, a NCDOT Encroachment Agreement is required
	for the proposed improvements (contact NCDOT, 704.596.6900).