TYPE OF INFRASTRUCTURES AND DESCRIPTION	REFERENCE	ORIGIN/CITY	TARGETED INDIVIDUALS	AIM / OBJECTIVES / HYPOTHESES	JUSTIFICATION	STUDY DESIGN	VARIABLES AND INDICATORS STUDIED	SPECIFICATIONS ON THE FEATURES AND INFRASTRUCTURES	QUALITY
Sideenik, padestrian crossing	Duncan-Jones B. (2001). Modern rade visually mpaind people. Annicipal Engineer. 145 (2): 185-190.			Describe and decase the most suitable features and the best practices in order to ashere accessible utiles environments for visually impained and titred people.	Many visably impaints paces withdraw from going cut bacance they fail they cannot recomprise the second second second second second second second second second second second second second second second second second second second sec	Chaoriphe andy	Sidewalk kerbs	They must be not both due of the target parking and should have a descended happy for equivalent to a descende have the parket park on a set of the set of	
							provision and pedestrian crossing	pare the originate waters asymptote with the sufficience of that the alters on both scales of the drossing is laveled and truth with the read/scale) impaired people do not naviegate and perfect straight includes a consistent with the national system of color-oded tactile paving will help such a person to locate the crossing.	
		London, United Kingdom	Misually impaired				Sidewalk pavement treatment	Contract on sublocks by orienterin manufact inductive encoders, on access detection with a long call and on value devictor by vector-imparts percentants. In there is no tasked with separating gravitie blocks from the crossing point and the tacilie paving then the danger is that the parson may learn to perceive the gravite blocks as tacilie paving or be unable to distinguish between the surfaces.	7
			Visually impaired				Sidewalk urban fumiture	Low bolinks are exceptionally hazarbonia and could cause people to they and fail, whereas water-height bolinks would not. Litter line should not investe lene attaches portion of the selecess. These elements hould not be possible and a la boat selece here possible portion of the boar, or at a sets could neer where it blocks the wire of others. Distances partnering over the topping hazarboarb posts, trees, bunkes, that him hango hampposts) are very attaches logical and postering hazarboarb posts and post posts. The set of the boarboarboarboarboarboarboarboarboarboar	_
							Refutishment	where it is a single or a double rooking. A third polentem would be conclused as the authory message would give a double rooking at third polentem would be conclused as the the authory message would give a double rooking at the total payor and total payor and the total payor and total payor and the total	
							Maintenance	Tactile paving that indicates a controlled crossing should not be installed until the crossing is operational as it may encourage a blind person to use a site that is not ready.	
Sidewalk, ramp, public space, lighting	York, S.L. (2008). Residential design and outdoor area accessibility.	Bioomington, Indiana, United		Desche the characteristic of outpoor environments for them to be accessible to pages with complex monological confidence. Program subfact and the the inflamination for these of unblex environments.	Whater a person free at home or in a washential locity, access to the outboar environment can have many positive and throughout effects. Opportunities to assummer the subscription of the subscription of the calcely fulfillate represent and enable likeus parallels.	Decorption andy. The school at least set based or Ansenable Goodbares for Octabol Developed and and the serven Principles of Universal Design	Sidewalk design. Running slope, cross slope, width	Running situes about not be greater than 5%, and cross stops about not be spearer than 2% (if the numming stops is greater than 5%, the sidewald becomes a early with binners and 5%. And of on 5% is the minimum but a 5% which sidewalk allows therefore the Warn. Level walkneys reduce the risk of falls and should provide encode stops for demanage. First, states and de instruct, binners undires, such as applied and concrete, are considered accessible structors, and priving tirch is also compliant with	23
			Neurological				Sidewalk pavement treatment	Accessible products a Reproduct yopical or in miniman. Reproduct you have been and an disapped to have the local munit wood without the upper non-intervence and out of woods. The explore you have been the the second product products and the advectage of the product and the second and products and products and the second product products multiple second and the second and the second and products and products and the second products and products and the second and the second and products and the second products and the second products and the second and the second products and the second products and the second products and the second products and the second products and the second products and the second products and the second products and products and the second products and the second products and the second products and products and products and the second	
	NeuroRehabilitation. 25 (3): 201-208.	otares					Ramp design. Running slope, cross slope,	enternely difficult surface on which to maneuver wheelchair sires and crutches. Running slope should be 112 maximum, cross slope should not be greater than 2% or 1/20 (least possible running slope), handraits must provide a 3-twide	
							handraats Public space. Sitting on benches	bilations, A range basigher at the basit possible summarizing stops and accounts the works means. Stating possible possible summarizes that approximately a stop of the account summarizes and possible possible summarizes and possible summarizes	
							Lighting	Floodlights, spotlights, landscape lighting, and the use of full spectrum bulbs will enhance nightrime visibility and safety. Automatic sensor lights can also be installed for security.	
							Planning and general design requirements	Should be in harmony with the local climate (four-season design) and use of strategies such as direct and reflected sun, shade control, wind control, wind control, evind control, evind control, and control and control and control and control and control and control and control.	T
				ed. Donos the basives of the "Mask in Humbor' Uban floats System developed and collaboration by the GO of Hembory, McMaster Developed and the Canadian Withouth Instantian that for House the score state of the Massachine Without Provide the Hembory Patholas Development and the reconstruction of Hembory Patholas Devel.	Although graid progress has here activated with respect to accessibility in harder free design of buildings, although and on pages takenes handling are all not adapted, constructing transmitted to annual transmitted, safety and on other for pages with special models. Public spaces are the king notes of our communities.		Sidawalk width	In mark insus freedom of movement. Laglor gathways Laglor gathways and the second se	
							Sidewalk delineation (shore lines)	Highly contrasting the contrasting wheelchair parts, 22m wide and constructed of dark gray stamped contrate, gravite or other suitable material.  Highly contrasting the suitable material and the suitable material of the suitable material.  Contrasting the suitable material of the suitable material of the suitable material.  Contrasting the suitable material of the suitable material of the suitable material.  Contrasting the suitable material of the suitable material of the suitable material.  Contrasting the suitable material.	-
Sidewalk, ramp, curb cuts, pedestrian crossings, street signage	Temite, St. (2003), Hamibor Uthan Brailla System: Urban design for an Aging Society. Plan , SpringPrintempa 2003: 41-43.	Hamilton, ON, Canada	Visually impaired, elderly, infirm and users of a variety			Descriptive study	Tactile information	end a visity of batteries with their hard or care. In fact, I receiption only 2 batteries (month and growed) or sidewaks and other hordcomel unfaces to produce to 10 of stort care or text and or text hard or batteries (Labora Batteries) and	9
			of mobility devices				Textured bands on intersections Decision node symbols	Broads houses propendicate to and houses the short line of a entertainty pain in reaso such as the following of the stats and and of drivenay operandrise, is correctly and and and the short which the faint of weakshar ranges, perpendicular to mouthway on either side of the gray portion of the nameplace properdicate to the randowy in four of decision node symbols.	
							Street name sidewalk plate	Located at comers to indicate intersecting streets, show the name of the street that is perpendicular to the path of travel, in order to be read facing the street.	
							Street name signage Pedestrian crossing. Visual and audio timing	Located on traine and streakingt poles. Larger plates allow for more traine safety and asser way-triang. Located at most of the dangerous intersections adjacent to hospitals and to other land uses where seriors use the public spaces. Audio and visual timers are installed in conjunction with optication traffic lines.	
							Bus stop / bus shelter detection strip	Must be approved by a public transpontation againcy.	1
				Prozet Re seads of Statistics in the USAct Kopplane or accessibly of states impaired process to standy reparate performance. These induces are: Nge Faculty Class, Galaki Dogu KL and the Department of Transports indexed species local transportation real.	Visual impairment is an established risk factor for loss of independence, bairg one of the 4 Force applicant potential controlling to the second seco	Description and/or fire 3 Initiations under 3 hoy stamme. Protection: profile, Wahanges and protection notice, Parameters, testes and initiation and sprace and the state of the management of the state of the state of the management of the state of the state of the management of the state of	Street design. Shared streets: non segregated space, "reducing dominance of motor vehicles and enabling all users to share the space".	Guide Dogu IX: states that priority or polatistical should also procedure as well space. The should be proceeding as the space of the s	14
							Sidewalk delineation. Kerbs	Tables ligher ban down, I prevents table. It must have an appropriate height to work due factor of lower height were not always detected in a study Thomas, 2011; Use in comparison with lower banks and states langer, a minimum kan being the wave week as an app defament the waterwave for all pedestrians, separatly volterable users. On a study, nearly a quarter of pedestrians were injunct by a fail involving a ketter, paring of marking kette might be a studion.	
	Norgate, S. H.						Sidewalk delineation. Tactile guidance paths Sidewalk delineation. Visual contrast	It might be adverse for other users, some patterns may lead to some degree of change in balance and stability. Tonal (colon) contract enables partially sighted users to perceive boundaries such as the edge of the carriagenay. On dark pavements like asphalt, lighter	
Street design, sidewalk, pedestrian crossings	(2012) Accessible of urban spaces for visually impained poderthinan. Proceedings of the Institution of Chill Engineer. municipal enginear. 185 (4): 231-237.	Manchester, United Kingdom	Visually impaired and elderly				Sidewalk demarcation. Bollards and street furniture	Under Structure seining kunn zurginnerszere neter krósz in seise. Curripticales sondor plantaris sen and o sobitmismismismismismismismismismismismismism	
								divisual contrast and suffice lead testini inclusion of the contrast, the point of the contrast of the contras	
							Surface	surfaces can but utilized to create detectable safety warnings (e.g. bister surface) of carriageway edges, act as hazard alerts (e.g. conducty surface) for top/bothm steps and guidance (e.g. nb and sinuscidal) to indicate route.	
							Pedestrian crossing. Underfoot bars	argument, the implementation of understand target makes present the second walking direction states target processors. (Bost et al., 2011) Non-tig- matchings, visual and ancient cost and approprime and state proceedings with the second state state state of the second state state state is a second state and states target and state states and states target and and	
							Access to transit systems, navigation and signage	Transport stops and stations are conveniently located, accessible, safe, clean, well-R and well-marked with adequate seating and shelter. Complete and accessible information provided to users about routes, schedules and special needs tablities. The use of tabling signs and emerging technologies as additional succelementary stops, and highlitis the priority of common bodies allowed with consistent reference points.	
-	· · · · · ·						Sidewalk with	1,40-m wide minimum. Accumulation of trashcans, bollards, treas with mold and signage limiting circulation are obstacles.	<u> </u>
Street design, sidewalk, pedestrian crossings, bus stops	Nodin, Y. (2006). Faciliter la ville aux personnes à mobilité réduite. Le Moniteur. 16 juin 2006: 62-64.			Describe urban infrastructures and features that allow the development of indusive urban papers. Using an obtain-solution, manufacting, the project addresses the publiches tables of two Cy of Marsialli. The Cy, the Curre of Barban solution of the Cy and the publiches tables of the Cy and the Cy and the Cy and the solution of the Cy and the development of the development of the public solution of the Cy and the total solution of a sameary system.	5.7 officient franch adults declare having difficulties circulating cotales their home. This manufacture approach impacts the quality of urban initializationaries and the combine of being in the day.	Description source	Sidewalk pavement treatment	For all public markets, a tactile paving treatment is necessary 0.5m from the edge of the sidewalk. Immobile, no slip pavement, the use of different colors is recommended. Different colors can help guide people with visual impairments.	4
		Marseille, France	Mobility impaired, a, France visually impaired, elderly				Sidewalk curb cuts	Lacri mean meaning sources you and/00 DC transfer on integrating yourse statistics. 1.20-m wide minimum. Maximum height of the demancation of the powement with the sidewak of 2cm. Improvement of signals and codes to help poople melogias within the open space, all latms must have a different color in order to be recognized by vision	
						concepted SERV	Ramp. Running slope (access to buildings)	Impaired people. Harmonized signage favor orientation. Ramps having a graded of 9% or less are perferred. 12% slope on 0,50 m numing length or less (entrance threabilids).	- "
							Steps design Pedestrian crossino. Audio quides	1.20—width minimum (without lateral walab), 16-cm high steps. A handrail (2 levels - one for tail people and the other one for short and mobility impaired people) is needed in staincases of 3 steps or more.	4
							Bus stop	The bus stop must be at the same level as the transportation vehicle.	1
	Laakso, M., Barjakoski, T., & Barjakoski, L. T. (2011). Improving accessizility information in pedicatian maps and databases. Cartographica. 46(2), 101-108.			<ol> <li>To identify the extent to which the content of spatial information meets the consistences of mobility inscripted autostrations. 20 To study when section</li> </ol>	In our to make the second seco	Descriptive study: Researchers sorubrized a write range of map services, geospatial databases, distributions of hinking paramay planness, in all, they scanned planness, in all, they scanned planness, in all, they scanned able incituded Whang sches and starking, scalar of them covering broad areas. They able incituded whangs and map services of special accessible justile and notaxis in the considering plantimism accessibility. Map services that do not support plantersity. Map services that do not support plantersity in anyigtion ware not incituded in the survey.	Surface Height profiles	Surface of the road and tactile paving Height profiles of roads, or at least indications whereatopes are >5% rer	
Street design,				Reparations of Protochy-reparate (Jessinskins, T) is any only digital reparation of Protochy-reparate (Jessinskins, T) is any only digital protochy of the protochy of the protochy of the protochy of the formation covering read or duta as in Memoid on covering read- tion in the protochy of the protochy of the protochy of the duta structure of the protochy of the protochy of the protochy of the duta structure of the duta structure of the protochy of the structure of the durate structure of the duta structure of the duta structure of the structure of the duta structure of the duta structure of the duta structure of the duta structure of the duta structure of the duta structure of the duta structure of the duta structure of the angeoretic the duta structure of the duta structure of the duta structure of the duta structure of the duta structure of the duta structure of the duta structure of the duta structure of the angeoretic the duta structure of the dut			Width of walkways/gateways Stairs, escalators, lifts/elevators	2m 2m	
sidewalk, curb cuts, cross-slope, crossfall_stee-			Mobility impaired				Crossings and traffic lights with audible pedestrian signals		
pedestrian crossings, public		Masala, Finland	vision impaired				Pedestrian subways and overpasses Squares and parks		23
transportation stop, lighting							Landmarks: visible and sonic Benches and other places to rest		
							Streetlights Obstacles	Otestacles, high cuites, construction siles	
<u> </u>			1	1	1		Current information on maintenance	Especially in winter Warnien surfaces	1
			1		1	1	1	The ready and the ready	_

TYPE OF INFRASTRUCTURE AND DESCRIPTIO	S REFERENCE	ORIGIN/CITY	TARGETED INDIVIDUALS	AIM / OBJECTIVES / HYPOTHESES	JUSTIFICATION	STUDY DESIGN	VARIABLES AND INDICATORS STUDIED	SPECIFICATIONS ON THE FEATURES AND INFRASTRUCTURES	QUALITY
Sdowski	Bury, S. 4. Start, T. (1988). Yao Jakobitti Handrid Yao Yaogi Yao Handrid Yao Yaogi Yao Handrid Yao Hangrid Yao Handrid Yao Hangrid Yao Handrid Yao Ha			When moving around the pedicetrian environment, visually impained people will entry use and main code of charges in Notiney surfacion. Tanks proceedings pedicetrians also of the immediate antivironment. They may have assisted subpace of the period of the immediate antivironment. They may have assisted subpace of the period of the immediate antivironment. They may have assisted subpace of the period of the immediate antivironment. They may have assisted subpace of the period of the subpace of the subpace of the period of the subpace of the period of the subpace of the subpace of the subpace of the subpace of the period of the subpace of the subpace of the subpace of the subpace of the period of the subpace of the subpace of the subpace of the subpace of the period of the subpace of the subpace of the subpace of the subpace of the period of the subpace of the subpace of the subpace of the subpace of the period of the subpace of the sub	These are approximately one values band and partially signed adults in the band response to the second second second second second second second second second second to second s	The nestarch programme resulted in the solution of a solutions within Mith and the solution of the solutions within Mith and the solution of the solution of the indicate an emotion.	Capacity to be detected underfoot and with a cane	Native series. It is used when the last adapted to inform insulty impaired polarisation that they are allocate to pay of the bitmany rise the configuracy. At a photometry of the photometry of	
								Hazard warning surface. It was developed to convey the massage "hazard, proceed with caution". It is most commonly used to indicate steps where it extends across the full width of the states and is set back slighty from the first step, at both the top and bottom of the fight. The same surface is now used to indicate to a visually impaired perior that thay are useding onto an on-area registrate transport partment.	1
							Capacity to be distinguished (among them and with other paving surfaces)	Partners Eq. (10): Sheadly Warning Section: Visually involved popula can inclu a difficunt to locate a section of the justicem material section of the partners with the section of the se	-
		United Kingdom	Visually impaired				Cupacity of latenting and semantituding their vite	Sequence that hand cycle trach/storage sufface. On a supposed taken (syste trach/storage, he toxis is chickel in a principace) and the storage storage trach/storage sufface. On a supposed taken (system storage sto	14
								Amenity surfaces. Buidance path surface. Its purpose is to guide visually impeired people along a route when the traditional coas, such as a property line or a kerb edge, are	
								na availaati, noo akao ba aasta gada popula aponta amond anakani, lika araat limitum. The suntice has been designed on the popula cent and them ransimin centrals with nucleh marked and has an and an anakama market anakani. In a suntice has been designed to be popula central the has the anakama fanta suntice. The popular to have population and the second tables and the and and the second tables the anakama fanta suntice. The suntice has an anakama market and the second tables and the and and tables. The sundex tables the market fanta suntice correction pages and anakama.	
								Cuiding principles The tactle surfaces outlined here were designed to address some of the problems experienced by visually impaired people in the pedestrian environment. It	
								was appear that nation charts should be ment: 11 Each speed tacking watches should be exclusively searced for its intender uses, 37 he sufficient should be providently instand property build be ments of the profile and resolutions of the sufficient should be accounted by the sufficient should be appeared property build be ments of the profile and resolutions of the sufficient should be accounted by the sufficient should be an experiment property build be ments of the profile and resolutions of the sufficient should be accounted by the sufficient should be accounted and the sufficient should be accounted by the sufficient should be accounted by the sufficient should be accounted and accounted by the sufficient should be accounted by the sufficient should be accounted by the sufficient should be accounted and accounted by the sufficient should be accou	