

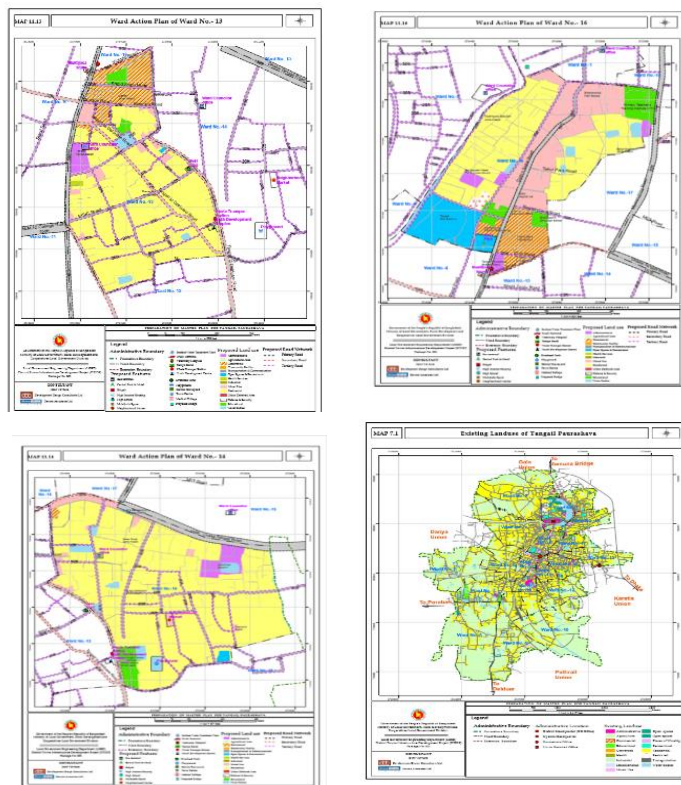


National Resilience Programme



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Risk Reduction Action Plan: Volume 2 Sunamganj Municipality



BUET-Japan Institute of Disaster Prevention and Urban Safety (BUET-JIDPUS)

Department of Urban and Regional Planning

Department of Civil Engineering

Bangladesh University of Engineering and Technology (BUET),

Dhaka-1000, Bangladesh.

December, 2021



**National
Resilience
Programme**



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**Earthquake Risk Assessment for Developing Contingency
Plans, Training Modules and Awareness Materials for
Rangpur City Corporation and
Tangail, Rangamati and Sunamganj Pourashavas**



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1. GENERAL GUIDELINES

Action Plan: Short Term

Priority 1		Priority 2		Priority 3		Priority 4	
Actions	Key Targets	Actions	Key Targets	Actions	Key Targets	Actions	Key Targets
Continuation and planned expansion of earthquake program	Public communication and awareness of citizens on DRR	Committees formed as per recommendations and a database on them prepared. A specific number of training sessions must be conducted for capacity building.	Strengthening disaster risk governance	Equitable disaster management activities	Development of local disaster management fund	Facilitating the emergency response activities	Promotion of household preparedness plan
		Capacity building of the members.	Developing Implementing Authority			A minimum specific number of training sessions must be conducted.	Arrangement and capacity building of the selected facilities for effective preparedness and response
		A minimum specific number of training sessions with a specific minimum number of local professionals must be conducted.	Capacity building of the local professionals for DRR				

Action Plan: Mid Term

Priority 1		Priority 2		Priority 3		Priority 4	
Actions	Key Targets	Actions	Key Targets	Actions	Key Targets	Actions	Key Targets
		Development of a system and capacity building for land use clearance and resilient construction of buildings and infrastructures	Ensuring building safety	Ensuring safety measures of facility buildings	Retrofitting immediately required facility buildings	Area-wise proper management of debris	Prepare a plan for debris management identifying debris accumulation points along with necessary capacity building
				Ensuring building safety	Development of a system and capacity building for land use clearance and resilient construction of buildings and infrastructures	Area-wise proper management of dead bodies	Prepare a plan for dead body management
						Proper implementation of the post-disaster	Development of a system and capacity building for post-disaster

						management activities	building vulnerability assessment to ensure recovery, rehabilitation and reconstruction
<i>Continuing Actions</i>							
Continuation and planned expansion of earthquake program	Public communication and awareness of citizens on DRR	A specific number of training sessions must be conducted for capacity building of the committee members.	Strengthening disaster risk governance	Equitable disaster management activities	Development of local disaster management fund		
		A minimum specific number of training sessions with a specific minimum number of local professionals must be conducted.	Capacity building of the local professionals for DRR				

Action Plan: Long Term

Priority 1		Priority 2		Priority 3		Priority 4	
Actions	Key Targets	Actions	Key Targets	Actions	Key Targets	Actions	Key Targets
Ensuring social sustainability of the disaster management activities	Prepare a plan to ensure continuity of awareness and capacity building (public communication and awareness of citizens on DRR; capacity building of the committee members; capacity building of the local professionals for DRR; etc.)			Earthquake resilient development	Density zoning to control further development	Contingency plan revised and updated.	Revision and enhancement of the contingency plan at regular interval
				Minimizing economic vulnerability.	Mandatory insurance policy	Minimizing the earthquake vulnerability	Further arrangement for effective preparedness and response (Road widening, retrofitting of

							facility buildings, etc.)	
				Earthquake resilient land-use planning	Promotion of RSLUP			
				Minimizing the earthquake vulnerability	Preserving and restoring water bodies and open spaces			
				At least one remedy introduced and implemented.	Remedies for liquefiable soils			
<i>Continuing Actions</i>								
Continuation and planned expansion of earthquake program	Public communication and awareness of citizens on DRR	A minimum specific number of training sessions with a specific minimum number of local professionals must be conducted.	Capacity building of the local professionals for DRR	Ensuring safety measures of facility buildings	Retrofitting immediately required facility buildings	Proper implementation of the post-disaster management activities	Development of a system and capacity building for post-disaster building vulnerability assessment to ensure recovery, rehabilitation and reconstruction	

2. ACTION PLAN FOR SUNAMGANJ POURASHAVA

Action Plan for retrofitting of vulnerable buildings

The buildings specified as Ward Coordination Center and for providing temporary shelter and emergency health facilities need attention in the mid-term based on their status of vulnerability. Those which have undergone Rapid Visual Screening (RVS) and were found to be vulnerable should be assessed via Detailed Engineering Assessment (DEA). If the DEA results assure their status as vulnerable, they must be retrofitted. Table-01 lists the buildings, their detailed information, and actions required accordingly.

Table 01 – List of vulnerable selective buildings with required actions in study areas of Sunamganj Pourashava

Information of the building						Action
Ward No.	Label*	Name	Present use	Proposed use	Condition	
02	1	Hasna Nagar Primary School	Educational	WCC	Unsafe according to DEA	1. retrofitting
	2	250 Bed Sadar Hospital, Sunamganj	Hospital	Emergency Health	Unsafe according to RVS	1. Detailed Engineering Assessment 2. If vulnerable, retrofitting
	3	250 Bed Sadar Hospital, Sunamganj	Hospital			
	4	Ohishi Dental Surgery	Hospital			
	5	Upazila Family Planning Office	Hospital			
	6	Civil Surgon Office	Hospital			
	7	Sunamganj Govt. College	Educational	Temporary Shelter		
	8	Police Super Office	Administrative			
	9	Baytusalam Jame Mosque	Religious			
	10	Shologhra Bonani Para Jame Mosque	Religious			

Information of the building						Action
Ward No.	Label*	Name	Present use	Proposed use	Condition	
	11	Sre Sre Thakur Ranir Thola	Religious			1. Detailed Engineering Assessment 2. If vulnerable, retrofitting
	12	Rama Krishna Ashram	Religious			
	13	Bangladesh Water Development Board Mosque	Administrative	Temporary Shelter	Unsafe according to RVS	
	14	Bangladesh Water Development Board, Sunamganj	Administrative			
	15	Bangladesh Water Development Board, Sunamganj	Administrative			
	16	Bangladesh Water Development Board, Sunamganj	Administrative			
	17	Bangladesh Water Development Board, Sunamganj	Administrative			
	18	Abu Hanifa jama Mosque	Religious			
	19	Fire Service	Administrative			
	20	Sacetan Nagoric Committee (SNC) Bhubon	Administrative			
	21	Union Land Office	Administrative			
	22	Sunamganj Govt. College	Educational			
	23	Sunamganj Govt. College	Educational			
	24	Sunamganj Govt. College	Educational			
	25	Al Farid Memorial Acedamy. Ababil Hafizur Kuran Ac	Educational			
	26	Child Care Academy	Educational			

Information of the building						Action
Ward No.	Label*	Name	Present use	Proposed use	Condition	
04	1	General Hospital	Hospital	Emergency Health	Unsafe according to RVS	1. Detailed Engineering Assessment 2. If vulnerable, retrofitting
	2	Surma Clinic & Diagnostic Center	Clinic		NA	1. Rapid Visual Screening to determine structural vulnerability 2. If RVS score < 1.2, Detailed Engineering Assessment 3. If vulnerable, retrofitting
	3	Sunamganj Govt. Collage Women Hostel Mosque	Religious	Temporary Shelter	Unsafe according to RVS	1. Detailed Engineering Assessment 2. If vulnerable, retrofitting
	4	Baitun Sharif Jame Mosque	Religious			
	5	Government Girls Primary School	Educational			
	6	Muktijoddha Parishad	Community Facility			
	7	Dewyan Mosque	Religious			
	8	Sree Sree Jagannath Jiur Mandir	Religious			
	9	Ababil Nurani Shishu Academy	Educational			

Information of the building						Action
Ward No.	Label*	Name	Present use	Proposed use	Condition	
05	1	Bulchand High School	Educational	WCC	Unsafe according to DEA	1. Retrofitting
	2	Sewba Medical Point	Clinic	Emergency Health	Unsafe according to RVS	1. Detailed Engineering Assessment 2. If vulnerable, retrofitting
	3	Anisha Health Care	Diagnostic Center			
	4	DC Mosque	Religious	Temporary Shelter		
	5	Women College	Educational			
	6	Uttor Natun Para Sorbojkonin Temple	Religious			
	7	Mondir	Religious			
	8	Jamai Para Mosque	Religious			
	9	District Rest House	Administrative			
	10	Kalibari Govt. Primary School	Educational			
	11	Kali Bari Temple	Religious			
	12	Buchand High School	Educational			
	13	Modina Jame Mosque	Religious			

*Labels are depicted in the respective maps of the vulnerable buildings to be retrofitted of the wards (Ward 02: Figure – 01; Ward 04: Figure – 02; Ward 05: Figure – 03)

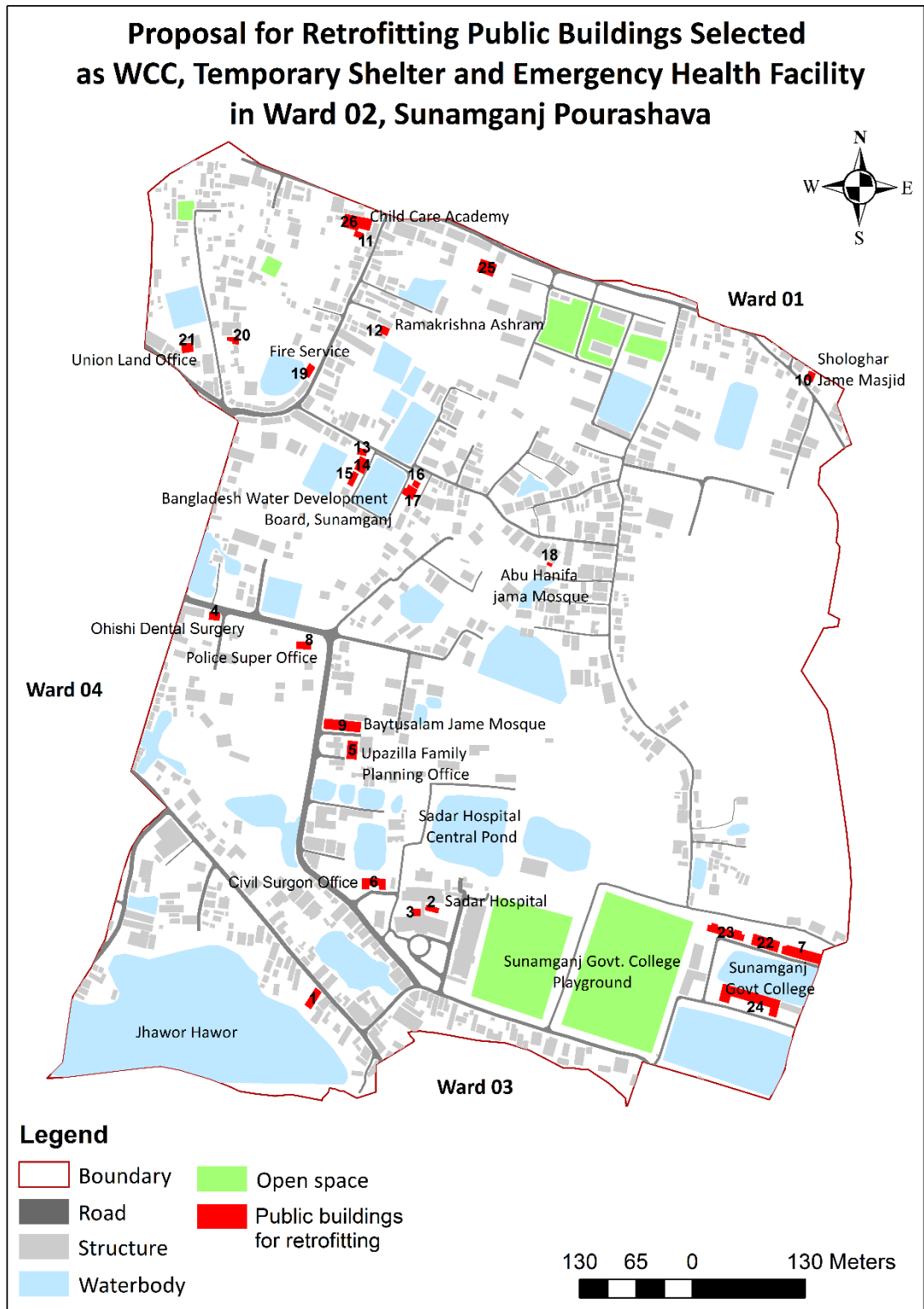


Figure 01 - Proposal for retrofitting of vulnerable buildings
in Ward-02, Sunamganj Pourashava

Proposal for Retrofitting Public Buildings Selected as WCC, Temporary Shelter and Emergency Health Facility in Ward 4, Sunamganj Pourashava

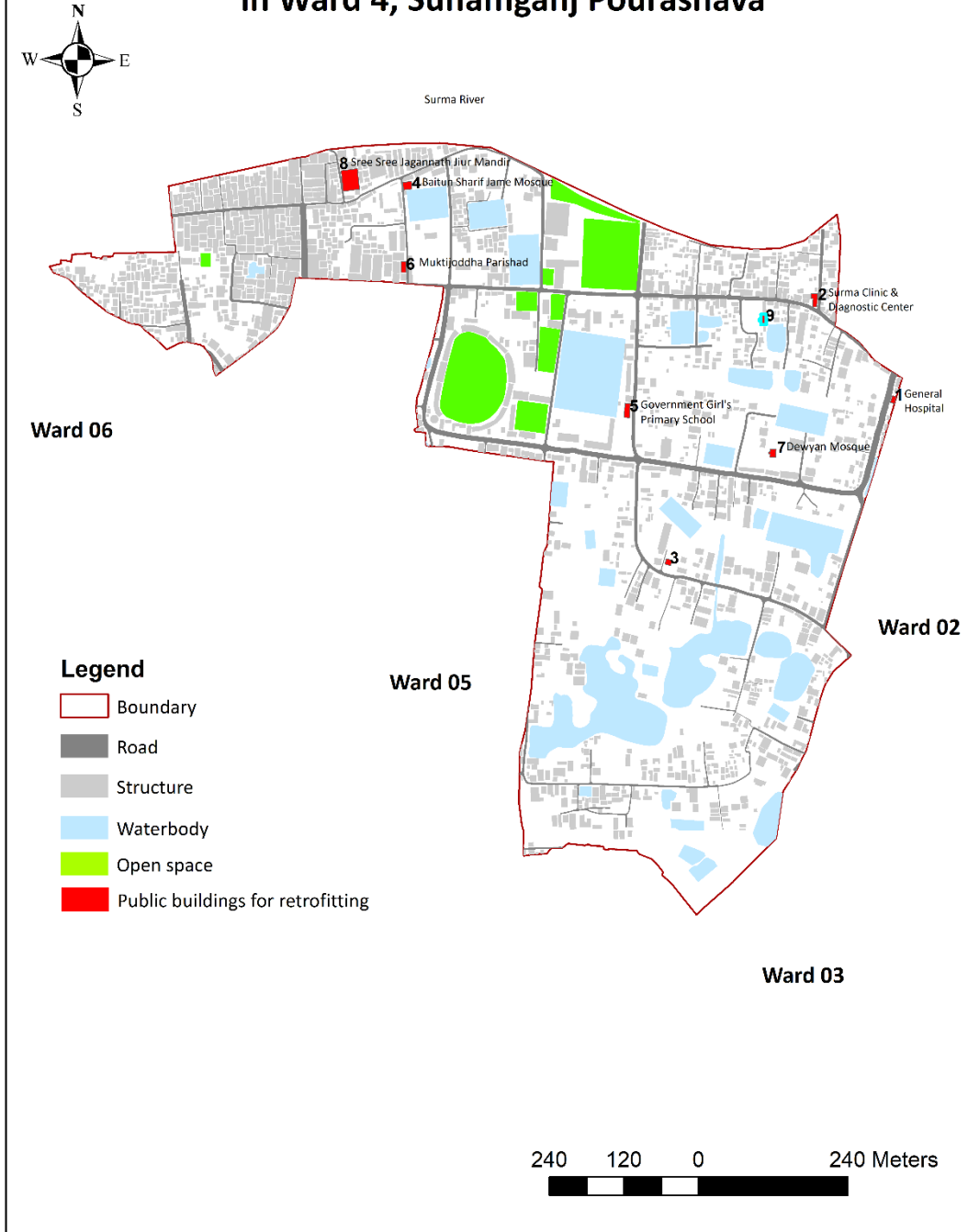


Figure 02 - Proposal for retrofitting of vulnerable buildings
in Ward-04, Sunamganj Pourashava

Proposal for Retrofitting Public Buildings Selected as WCC, Temporary Shelter and Emergency Health Facility in Ward 05, Sunamganj Pourashava

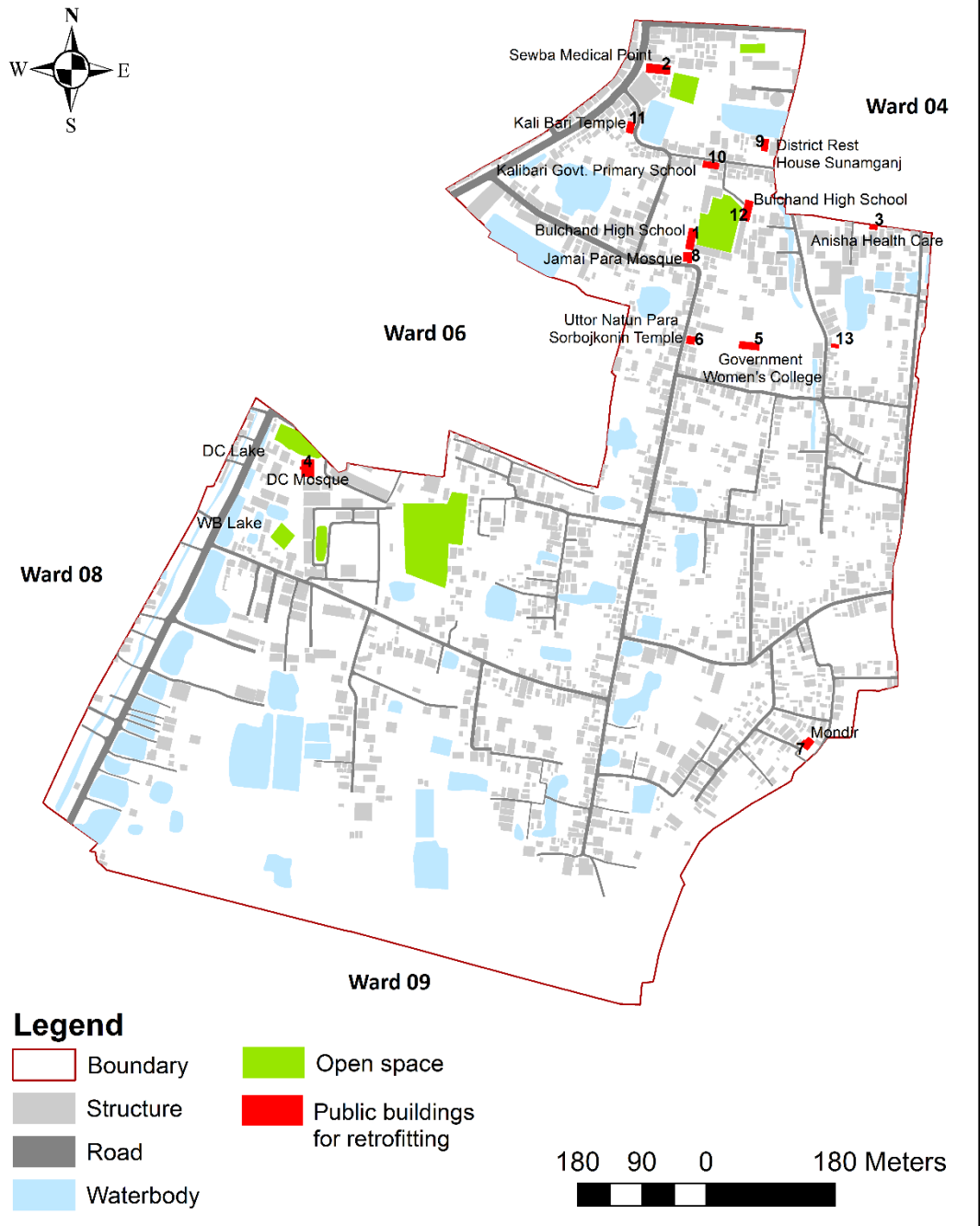


Figure 03 - Proposal for retrofitting of vulnerable buildings
in Ward-05, Sunamganj Pourashava

Action Plan for Road Widening

The roads which provide access to the Ward Coordination Center, temporary shelters and emergency health facilities were checked for possible blockages and accordingly proposed for widening in the long-term as shown in Figures 04, 05, and 06. After that, all roads less than 12' wide need to be widened.

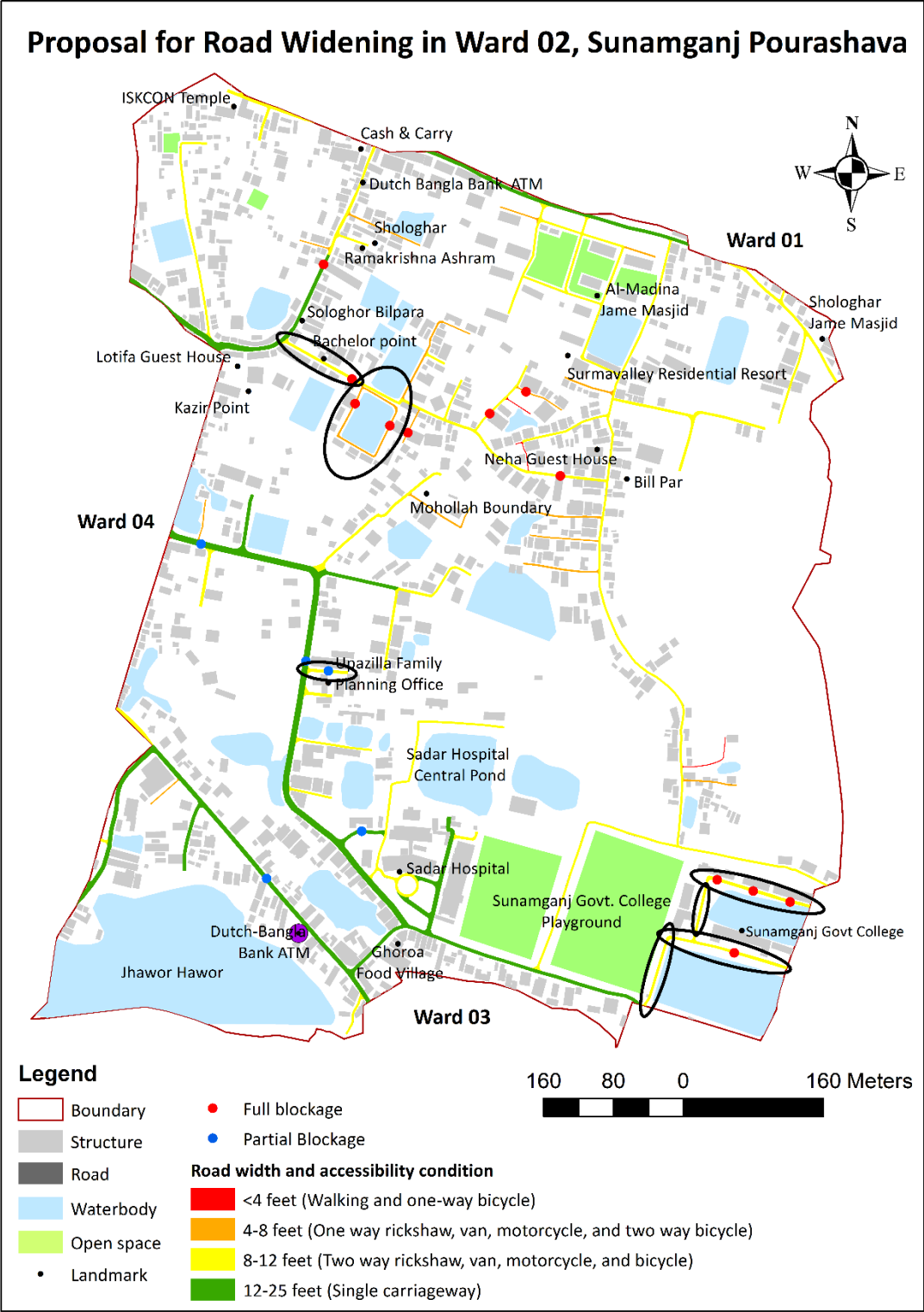


Figure 04 - Proposal for road widening in Ward-02, Sunamganj Pourashava

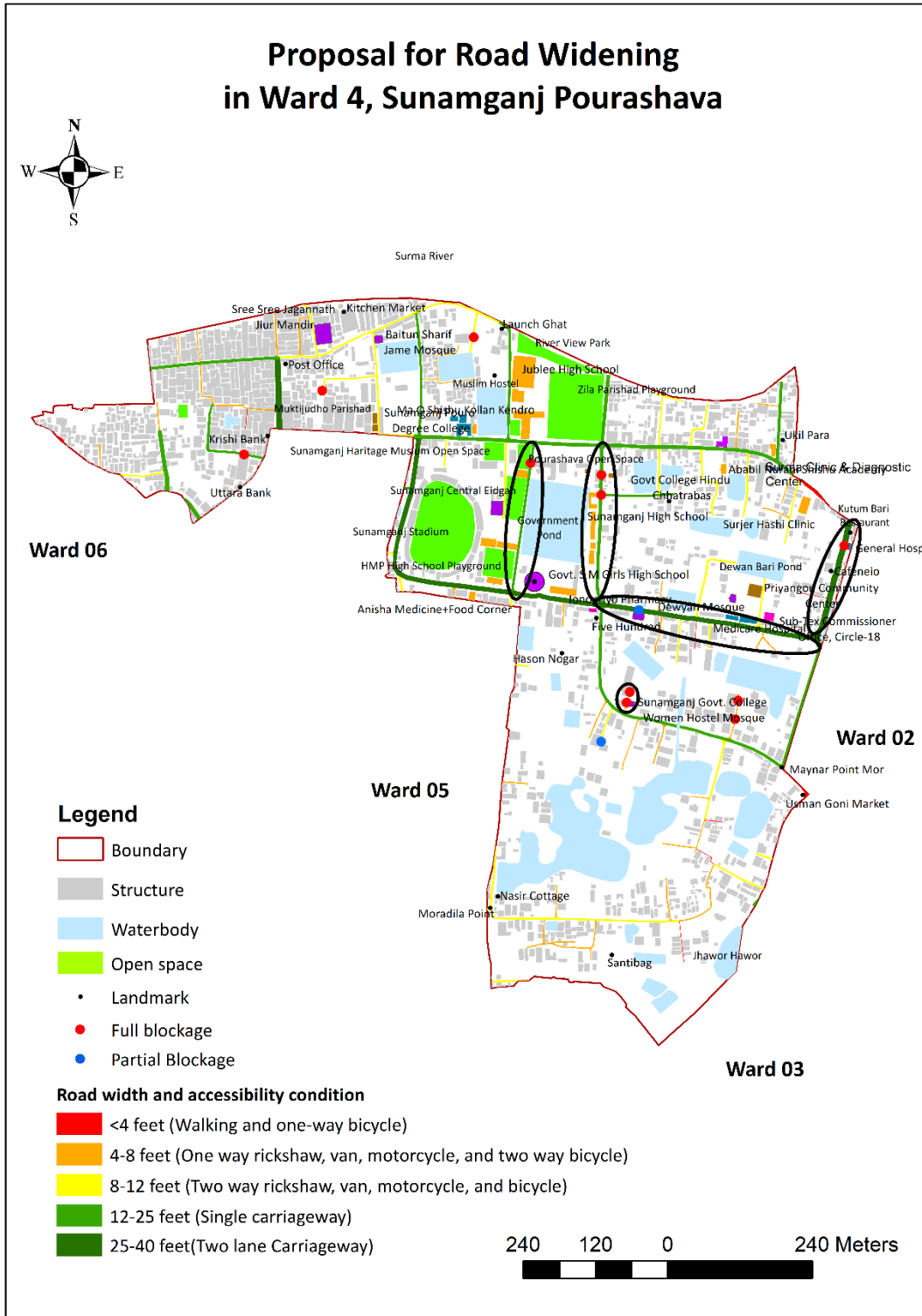


Figure 05 - Proposal for road widening
in Ward-04, Sunamganj Pourashava

Proposal for Road Widening in Ward 05, Sunamganj Pourashava

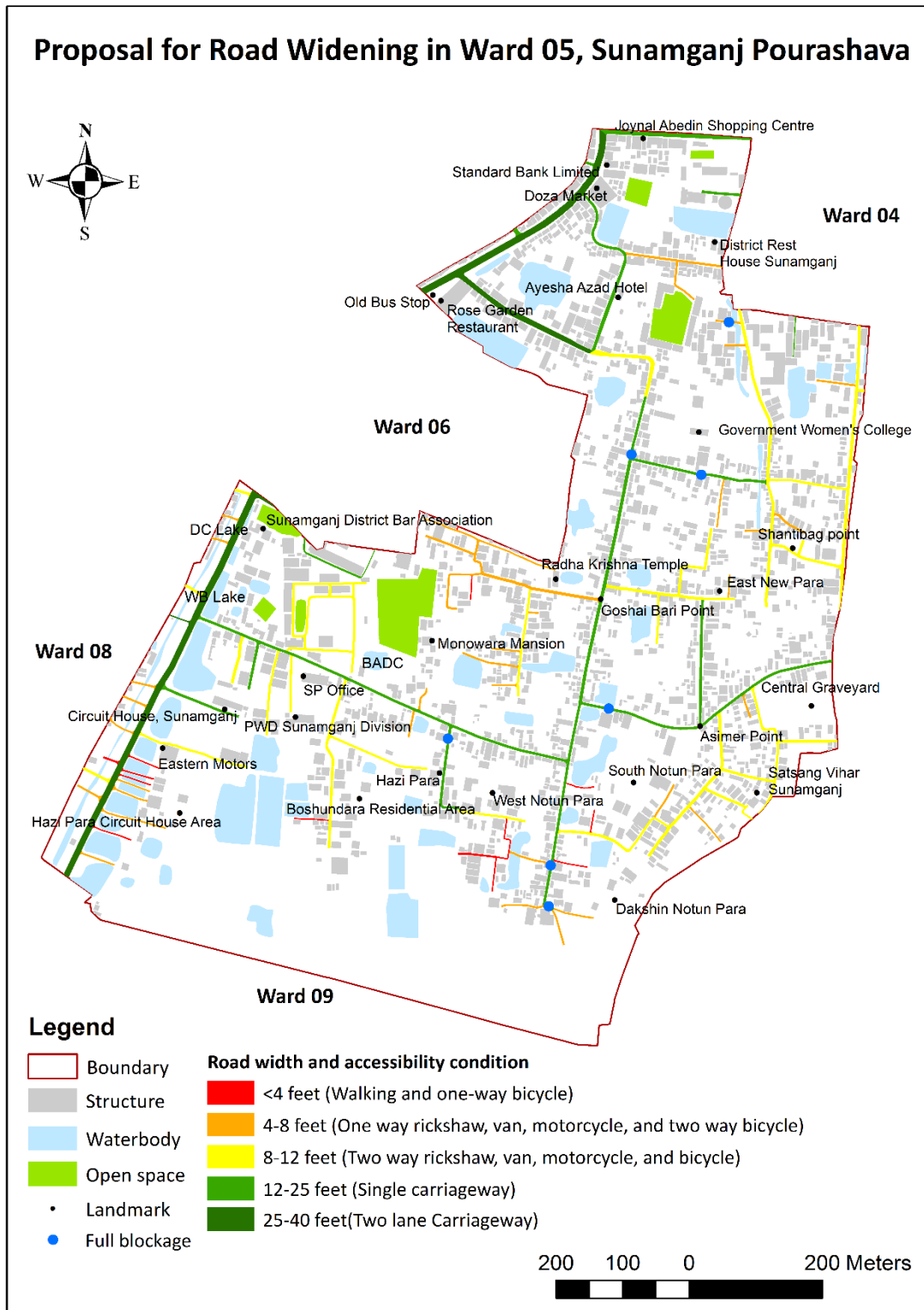


Figure 06 - Proposal for road widening in Ward-05, Sunamganj Pourashava