
공무국외출장 보고서

출장기간 : 2023. 08. 21. ~ 8. 26. (5박 6일)

출 장 지 : 몽골 울란바토르

출 장 자 : 이형복

I

출장 개요

1. 출장목적

- KOREA CPTED ASSOCIATION Mongolian Education Program 참여
 - 우리연구원이 추진한 ‘도심으로 돌아온 등대프로젝트’ 소개
- 울란바토르시 정책분석연구원 MOU체결을 위한 기관방문

2. 출장기간 : 2023. 8. 21. ~ 8. 26. (5박 6일)

3. 출 장 지 : 몽골 울란바토르

4. 출 장 자 : 이형복

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출장 일정

일자	시 간	도시	세부 일정	비고
8.21 (월)	전일	Ulaanbaatar	14:20-17:00 MIAT몽골항공 인천-신울란바토르 국제공항 18:00-19:00 Pick up from the Chinggis Khaan International Airport 20:00-22:00 Welcome dinner (hosted by National Institute of Security Service) 22:00 Stay in hotel	
8.22 (화)	전일	Ulaanbaatar	10:00-12:00 Conference and Education (separate program) 12:00-14:00 Lunch 14:00-16:00 Conference and Education 16:30-17:00 Closing and Certificate Issuing 17:00-19:00 Dinner 20:00 Stay in hotel	University of Internal Affairs
8.23 (수)	전일	Ulaanbaatar	10:00-11:00 Visit to Crime Prevention Council Mongolia 11:30-13:00 Lunch 13:00-16:00 Visit to Ulaanbaatar Metropolitan Police Department 16:30-17:30 Move out of the city 18:00-22:00 Welcome party at the campus	
8.24 (목)	전일	Ulaanbaatar	Visit University of Internal Affairs, Mongolia Stay at the campus	
8.25 (금)	전일	Ulaanbaatar	12:00-13:00 Move to the city 13:00-16:00 Visit to 울란바토르시 정책분석연구원 17:00-19:00 Dinner 20:00 Stay in hotel	닥그와 원장 보양텔게르 부원장
8.26 (토)	전일	Ulaanbaatar	09:00 Move to Chinggis Khaan International Airport 13:05-17:20 MIAT몽골항공 신울란바토르 국제공항-인천	

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출장 내용

1. Conference and Education (separate program)

- 참석자 : 한국셉테드학회 및 몽골경찰 약 70인
- 일 시 : 8월 22일(화) 09:00 ~ 18:00
- 주요내용

가. 몽골경찰들을 대상으로 셉테드 세미나 및 교육추진

나. 발표 : Practice based on KCA CPTED Certificate Evaluation Criteria

다. 추가: 대전의 대표적 「CPTED사업인 도심으로 돌아온 등대」 프로젝트를 소개



< 그림 1. Conference and Education 사진 >

Opening Ceremony		
09:00 AM	Introduction of distinguished guests in Mongolia and in Korea	
09:05	Opening Speech (President of the University of Internal Affairs)	
09:10	Opening Speech (President of the Korea CPTED Association, KCA)	이동희
09:15	Keynote Speech : CPTED Trends in Korea and Abroad	이경훈
09:35	Introduction to KCA CPTED Education (Director of KCA CPTED Education Center)	황의갑
09:45	Group Photo	
09:50	Short Break	
10:00 AM	Why CPTED and What's the logic behind CPTED? (60분)	이경훈
11:00	CPTED theories and Key Principles (60분)	강용길/이동희
12:00	Lunch	
13:30 PM	Process of CPTED and Importance of Risk Assessment (60분)	정성원
14:30	Risk Assessment Methods (60분)	박현호/임형진
15:30	CPTED Application Cases in Korea and It's Effects (60분)	강부성/황의갑
16:30	Practice based on KCA CPTED Certificate Evaluation Criteria (60분)	박광재/이형복
17:30 PM	CPTED Education Certificate and Closing Remarks	
18:00 PM	Dinner	

< 그림 2. Conference and Education 프로그램 및 담당자 >

- 라. 몽골경찰들을 대상으로 현장 셉테드 교육추진 약속
- 마. 내년도 한국에서 2차 워크숍 추진
- 마. 몽골에 CPTED자료 공유

2. Visit to Crime Prevention Council Mongolia

○ 참석자 : 이형복외 한국셉테드학회 간부 10인

○ 일 시 : 8월 23일(화) 10:00 ~ 11:00

○ 주요내용 : 몽골 법원소개 및 한국CPTED 전략에 대한 접목방안

가. 몽골 법원에 대한 소개 및 범죄예방을 위한 법원의 활동내용

나. 몽골범죄 현황에 대한 간단한 브리핑 및 범죄자 처벌에 대한 프로세스 소개

다. 한국 셉테드 전략에 대한 소개 및 몽골에 적용을 위한 전략방향

라. 향후 한국의 CPTED 가이드라인을 전파할 수 있는 행사를 추진

마. 기타 : 논문자료 취득 등



< 그림 2. Visit to Crime Prevention Council Mongolia 사진 >

3. Visit to Ulaanbaatar Metropolitan Police Department

- 참석자 : 이형복외 한국셰테트학회 간부 10인
- 일 시 : 8월 23일(화) 13:00 ~ 16:00
- 주요내용

가. 몽골 울란바토르시의 범죄현황 및 경향

몽골 울란바토르시의 범죄 상황을 도시의 범죄지수로 나타내면 53.42, 안전지수는 46.58로, 전반적으로 중간 수준의 범죄가 있음을 나타낸다. 울란바토르에서 주요 우려 사항으로는 강도나 강탈에 대한 높은 우려(60.36 점)와 공격을 받을 우려(60.83 점)가 있다. 부동산 범죄(예: 파괴 및 절도)와 폭력 범죄(예: 폭행 및 무장 강도)는 보통 수준으로 간주된다.

여행자 및 거주자들에게 안전은 상황에 따라 다르다. 낮 시간 동안에는 상대적으로 높은 안전 수준을 보이지만 밤에는 감소 경향을 보인다. 주요 위험 요소는 관광지역과 대중교통, 시장과 같이 붐비는 장소에서의 소매치기 및 가방 절도와 같은 소소한 범죄들이다. 폭력 범죄는 덜 흔하지만, 밤 시간이나 인적이 드문 곳, 조명이 어두운 곳에서는 주의가 필요하다고 한다.

나. 울란바토르시 경찰의 조직체계

몽골의 경찰 조직인 'National Police Agency (NPA)'는 국가의 법 집행 기관으로, 범죄와 공공 안전 유지에 중점을 두고 있다. NPA는 국가 차원에서 활동하며, 1990년대의 정치 및 경제 변화와 함께 재정립되었습니다. 몽골의 'State Great Hural'에 의해 1993년에 경찰 조직에 관한 법이 승인되었다.

- 최고 지휘관: NPA의 책임자는 이사, 제1부이사, 그리고 두 명의 부이사로 구성

- 주요 부서들: 행정, 재정 및 물류, 형사 경찰, 조사, 문의, 교통경찰, 정보 조사, 공공질서, 통신 부서, 경찰 아카데미 등이 있다.

- 지방 수준: 21개 지방과 울란바토르에 경찰 부서와 사단이 있으며, 이들은 다시 부문, 유닛 및 섹션으로 세분화된다.

다. 몽골 경찰계급

최고 계급: 이사, 제1부이사, 부이사

상위 계급: 경찰 대령, 경찰 중령, 경찰 소령

중간 계급: 경찰 대위, 경찰 상위 소위, 경찰 소위

하위 계급: 경찰 수석 상사, 경찰 트레이너 상사, 경찰 수석 상사, 경찰 상사, 경찰 부상사

라. 기타 유사기관

'Internal Troops'라는 내부 군대가 있으며, 이들은 파라밀리터리(반군사적) 진압 경찰로서 중요한 정부 건물을 보호하는 역할을 한다. 'General Authority for Border Protection'라는 국경 경찰은 몽골의 국경 검문소에서 경찰 업무를 수행하며, 차량 검사 및 Buyant-Ukhoo 국제공항과 New Ulaanbaatar 국제공항에서 수하물 검사를 담당한다.

마. 울란바토르 CPTED 적용방안에 대한 논의

- 1) 신시가지에 대한 적용은 한국의 CPTED가이드라인을 활용할 필요
- 2) 공동주택의 CPTED가이드라인은 한국의 공동주택 건축형태가 유사해서 가능



< 그림 3. Visit to Ulaanbaatar Metropolitan Police Department 사진 >

4. 울란바트로시 통합관제센터 방문

- 참석자 : 이형복외 한국셧테트학회 간부 10인
- 일 시 : 8월 23일(화) 16:00 ~ 18:00
- 주요내용

가. 몽골 울란바트로시의 통합관제센터 방문

나. 대한민국 지원으로 설립한 기관

다. 대전 방문시는 대전스마트센터(통합관제센터) 방문약속



< 그림 4. 울란바트로시 통합관제센터 방문 사진 >

5. Visit University of Internal Affairs, Mongolia

- 참석자 : 이형복외 한국셰테트학회 간부 10인
- 일 시 : 8월 24일(수) 10:00 ~ 16:00
- 주요내용

가. 몽골의 경찰, 소방관, 국경수비대의 공무원 양상기관인 내부대학 방문
대대로 법 집행 관련 인재를 양성한 내무대학은 89년 동안 국가의 안전과 국민의 평화를 보장하는 역할을 해왔다.

비상관리, 경찰, 국경수비대, 법원결정집행관, 포렌식 등 각급 기관의 고학력, 숙련, 윤리적 인력을 양성

졸업생 중에는 법 집행관, 정치인, 과학자들도 탄생



< 그림 5. Visit University of Internal Affairs, Mongolia 사진 >

6. Visit to 울란바토르시 정책분석연구원

- 참석자 : 이형복외 한국셉테트학회 간부 10인
- 일 시 : 8월 25일(수) 10:00 ~ 14:00
- 주요내용

가. 울란바토르에 위치한 독립적이고 비당파적인 비영리 연구소이다. 이 기관은 민주주의 증진, 좋은 거버넌스, 자유 시장 해법, 경제 혁신 및 다각화에 중점을 두고 연구를 진행하고 있다. 이 연구소는 다양한 프로젝트와 출판물을 통해 몽골 정치 당사자들의 내부 민주주의 지수 및 지역발전을 위한 몽골 정부의 노력과 같은 주제들을 다루고 있기도 하다. 또한, 연구소는 정책 감시와 토론을 포함한 여러 활동을 통해 관련 분야에 대한 통찰력과 정보를 제공하는 시산하 기관이다. 최근에는 도시개발에 대한 분야에도 중점적으로 인력을 충원하고 있다.

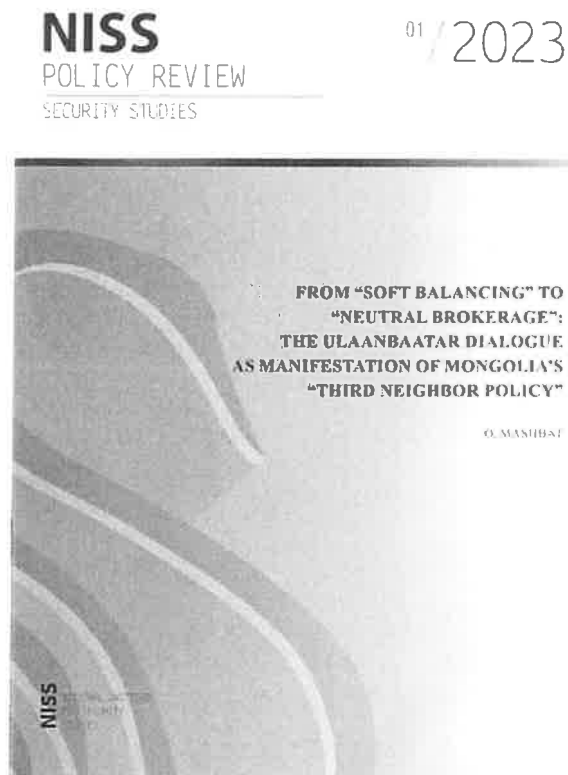
나. 대전세종연구원과의 교류를 원하고 있어 연구소의 직접방문을 통해 교류체결에 대한 원장님 의견전달과 MOU체결 등에 대해 논의하였다.



< 그림 6. Visit to 울란바토르시 정책분석연구원 사진 >

- 가. 한국 경찰이 범죄예방 차원에서 중점적으로 CPTED(환경을 통한 범죄 예방)를 다루고 있어서, 몽골경찰과의 교류에서 CPTED를 전파시 몇가지의 효과를 기대할 수 있다. 첫째, 국제적 협력을 도모하고자 하는 몽골의 범죄예방 및 공공 안전 향상에 기여할 수 있다. 물리적 환경을 개선하고 사회적 감시를 강화함으로써 몽골에서 범죄 발생률을 줄일 수 있어 예산절감의 효과를 얻을 수 있음을 전할 수 있다. 둘째, 양국 간의 협력과 경험 공유는 범죄 예방 전략에 대한 이해와 기술을 증진시킬 수 있다. 셋째, 이러한 교류는 국제적 협력과 친선을 강화하고 양국의 법 집행 기관 간의 네트워크를 구축하는 데도 도움이 될 수 있다.
- 나. 대전세종연구원이 몽골 내무대학과 교류를 통해 얻을 수 있는 효과는 다음과 같다.
- ① 지식 및 경험 교류: 몽골의 법 집행 및 내부 안전에 대한 지식과 경험을 공유함으로써 양측 모두의 전문성 향상에 기여할 수 있다.
 - ② 공동 연구 기회: 범죄예방, 공공안전, 법 집행 시스템 개선 등에 관한 공동 연구 프로젝트를 개발하고 실행할 수 있는 기회가 마련된다.
 - ③ 문화적 이해 증진: 양국 간의 문화적 이해와 상호 존중을 높일 수 있으며, 이는 국제적 협력의 토대가 마련된다.
 - ④ 네트워크 확장: 연구원 차원에서 국제적인 관계망을 구축하고 확장함으로써 향후 다양한 협력 기회를 모색할 수 있다.
 - ⑤ 교육 및 훈련 프로그램 개발: 서로의 교육 및 훈련 프로그램을 벤치마킹하고 개선하는 데 도움이 될 수 있다.
- 다. 몽골 울란바토르시 정책분석연구원과의 학술적교류는 전반적으로, 대세연의 연구자의 국제 교류는 학문적, 개인적 경험을 크게 무장화시킬 뿐만 아니라 상호 문화적 이해를 촉진시킬 것으로 예상된다. 앞으로의 이러한 교류의 혜택은 개별 연구자를 초과하여 우리연구원의 발전에 기여하고 글로벌 도전 과제를 해결하는 데 도움을 줄 것으로 확신한다.
- 라. 울란바토르시 정책분석연구원과는 올 11월에서 12월 중에 MOU를 체결하는 것으로 약속하였고 기념세미나를 대전에서 갖는 것으로 약속하였다.

1. "소프트 밸런싱"에서 "중립적 중개"로: 몽골의 "제3의 이웃 정책"의 발현으로서의 울란바토르 대화



- 1) 본 문서에는 2008년부터 2016년까지 몽골의 '제3의 이웃정책', 소규모 국가 위상, 중립성 및 중재 계획 등을 포함한 주제에 대한 연구 논문, 정책 논문, 컨퍼런스 연설 등 저자가 발표한 초기 발표 작품을 종합한 것으로, 이는 모두 울란바토르 동북아 안보 대화 형식으로 구체화된 것이다. 본 논문들의 핵심 개념은 강대국 경쟁의 격동기에 몽골에게 여전히 중요하고 유효하지만, 강대국들의 균형을 민첩하게 맞추면서 국익을 신중하게 보장하는 데 어려움을 겪고 있는 몽골에게는 생략된 부분은 대부분 역사적 및/또는 이론적으로 중요한 문제를 다루고 있는 이전 인쇄본의 일부이다.

2. 발표내용

Practice based on KCA CPTED Certificate Evaluation Criteria


Practice based on KCA CPTED Certificate Evaluation Criteria

Kwangjae Park(Vice President, Korea CPTED Association,
Professor, Hankyong National University)
Hyungbok Lee(Vice President, Korea CPTED Association,
Daejeon Sejong Research Institute)

Practice based on KCA CPTED Certificate Evaluation Criteria

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3. SEMI-PRIVATE SPACE
4. PRIVATE SPACE
5. Equipments(CCTV,
LIGHTING, ETC)



Practice based on KCA CPTED Certificate Evaluation Criteria

PUBLIC SPACE

Practice based on KCA CPTED Certificate Evaluation Criteria

1. PUBLIC SPACE

1.1 Apartment Complex Access

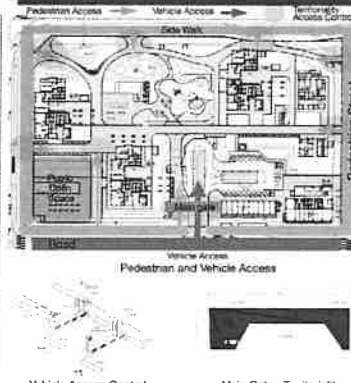
- 1) Establish a massive gate for apartment complex based on the tactical and physical environments of particular layout.
- 2) Set the location and layout of entrance considering the apartment blocks and surrounding conditions (e.g. Use convenience, crime prevention effect, etc.).
- 3) Install a guard post at the entrance for pedestrian and vehicles. The location of the guard post should be able to control the access of residential building.
- 4) Install the facilities that avoid access vulnerability at the entrance for pedestrian and vehicles.
- 5) The parking around entrance enhances the pedestrian and vehicles should reduce the possibility and separate the loading zones. The width and level height and intervals of the parking should be planned according to the consideration.

1.2 Access for vehicles (vehicle-only)

- 1) For exclusive entrance, the facilities that could control vulnerability should be installed.
- 2) Set the vehicle only entrance. The access control device for remote vehicle should be installed.

1.3 Access for Pedestrians (Pedestrian-only)

- 1) Install the signs and links of the entrance for the pedestrian-only access.
- 2) The consideration for pedestrian-only entrance should be planned to assist the remote surveillance in the area and layout.
- 3) The pedestrian-only entrance should be equipped with facilities such as individual light, detection system, that makes that could detect the abnormality.
- 4) The parking around pedestrian-only entrance should assist the security and separate the loading zones. The width and level height and intervals of the parking should be planned according to the consideration.



Pedestrian Access Vehicle Access Vehicle Access Control

Main Gate : Territoriality

Practice based on KCA CPTED Certificate Evaluation Criteria

1. PUBLIC SPACE

1.4 Complete Boundaries


- 1) Plan the boundaries to secure natural surveillance and control the access with facilities such as barrier, fence, production and landscape planting.
- 2) There should be no blind spots (shielded access). If the location of the blind spots is unavoidable, remote surveillance should be possible on the spot.
- 3) If possible, the "escaper's" role should be recognized.
- 4) The parking around the boundaries should secure a visibility zone through the building facade. The width and level height and intervals of the parking should be planned according to the consideration.

1.5 Security office

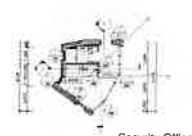
- 1) The security office should be installed at the entrance (for pedestrian and vehicles) of the complex.
- 2) The security office should be installed at the vehicle gate entrance.
- 3) The security office should be designed with a structure with at least lower than roads that could monitor the surroundings.

1.6 Commercial facilities

- 1) Install the facilities (signs for the resident, car, entrance, detection system, door handle, etc.) that could show territoriality at the boundaries from the commercial facilities to the residential use within the complex.
- 2) The entrance looks for consideration of the existing element should design the apartment complex.
- 3) The sports zones and parking lot for the residents should be separated from the apartment complex.



Planting Design



Security Office

Practice based on KCA CPTED Certificate Evaluation Criteria

SEMI PUBLIC SPACE

2. SEMI-PUBLIC SPACE

Practice based on KCA CPTED Certificate Evaluation Criteria

- 2.1 Pedestrian Area**
- The pedestrian route should be designed to enable the visitor to maintain direct sight lines into the interior of the building.
 - The route should be designed to be open, unobstructed and well lit.
 - The route should be designed to be well lit and unobstructed.
 - The route should be designed to be well lit and unobstructed.
- 2.2 Play Area**
- The play area should be located where it can be seen from the main entrance.
 - The play area should be well lit and unobstructed.
 - The play area should be well lit and unobstructed.
 - The play area should be well lit and unobstructed.
- 2.3 Recreational Area**
- The recreational area should be located where it can be seen from the main entrance.
 - The recreational area should be well lit and unobstructed.
 - The recreational area should be well lit and unobstructed.
 - The recreational area should be well lit and unobstructed.
- 2.4 Athletic Area**
- The athletic area should be located where it can be seen from the main entrance.
 - The athletic area should be well lit and unobstructed.
 - The athletic area should be well lit and unobstructed.
 - The athletic area should be well lit and unobstructed.

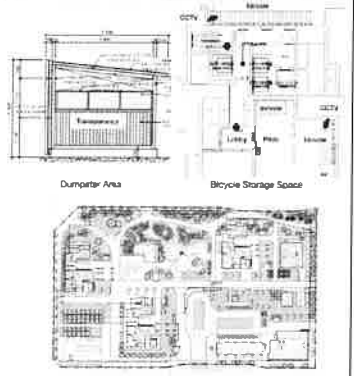


Natural Surveillance

2. SEMI-PUBLIC SPACE

Practice based on KCA CPTED Certificate Evaluation Criteria

- 2.5 Children facilities and Service center**
- Children facilities should be placed in the location where the natural surveillance and lighting can be seen from the main entrance.
 - Children facilities should be placed in the location where the natural surveillance and lighting can be seen from the main entrance.
 - Children facilities should be placed in the location where the natural surveillance and lighting can be seen from the main entrance.
 - Children facilities should be placed in the location where the natural surveillance and lighting can be seen from the main entrance.
- 2.6 Dumpster Area**
- Children facilities should be placed in the location where the natural surveillance and lighting can be seen from the main entrance.
 - Children facilities should be placed in the location where the natural surveillance and lighting can be seen from the main entrance.
 - Children facilities should be placed in the location where the natural surveillance and lighting can be seen from the main entrance.
 - Children facilities should be placed in the location where the natural surveillance and lighting can be seen from the main entrance.
- 2.7 Bicycle Storage Space**
- Children facilities should be placed in the location where the natural surveillance and lighting can be seen from the main entrance.
 - Children facilities should be placed in the location where the natural surveillance and lighting can be seen from the main entrance.
 - Children facilities should be placed in the location where the natural surveillance and lighting can be seen from the main entrance.
 - Children facilities should be placed in the location where the natural surveillance and lighting can be seen from the main entrance.
- 2.8 Ground Parking Lot**
- Children facilities should be placed in the location where the natural surveillance and lighting can be seen from the main entrance.
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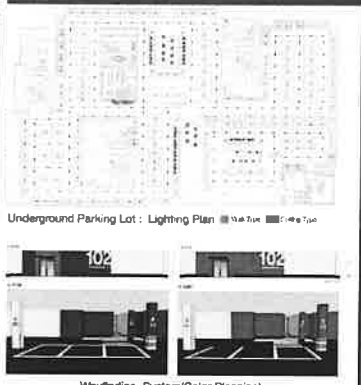


Dumpster Area, Bicycle Storage Space, Ground Parking Lot

2. SEMI-PUBLIC SPACE

Practice based on KCA CPTED Certificate Evaluation Criteria

- 2.9 Underground Parking Lot**
- The underground parking lot should be well lit and unobstructed.
 - The underground parking lot should be well lit and unobstructed.
 - The underground parking lot should be well lit and unobstructed.
 - The underground parking lot should be well lit and unobstructed.
- Wayfinding System (Color Planning)**
- The wayfinding system should be well lit and unobstructed.
 - The wayfinding system should be well lit and unobstructed.
 - The wayfinding system should be well lit and unobstructed.
 - The wayfinding system should be well lit and unobstructed.



Underground Parking Lot : Lighting Plan, Wayfinding System (Color Planning)

2. SEMI-PUBLIC SPACE

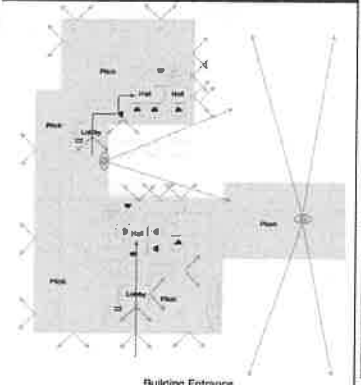
Practice based on KCA CPTED Certificate Evaluation Criteria

SEMI PRIVATE SPACE

3. SEMI-PRIVATE SPACE

Practice based on KCA CPTED Certificate Evaluation Criteria

- 3.1 Interior and Exterior Space of Building Entrance**
- The interior and exterior space of the building entrance should be well lit and unobstructed.
 - The interior and exterior space of the building entrance should be well lit and unobstructed.
 - The interior and exterior space of the building entrance should be well lit and unobstructed.
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Building Entrance

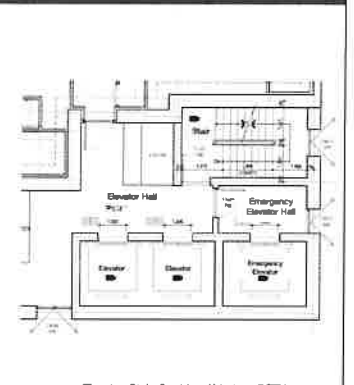
3. SEMI-PRIVATE SPACE

Practice based on KCA CPTED Certificate Evaluation Criteria

- 3.2 Elevators (Lift)**
- The elevator should be well lit and unobstructed.
 - The elevator should be well lit and unobstructed.
 - The elevator should be well lit and unobstructed.
 - The elevator should be well lit and unobstructed.
- 3.3 Corridors and Stairs**
- The corridor and stairs should be well lit and unobstructed.
 - The corridor and stairs should be well lit and unobstructed.
 - The corridor and stairs should be well lit and unobstructed.
 - The corridor and stairs should be well lit and unobstructed.
- 3.4 Roofing and Outdoor space**
- The roofing and outdoor space should be well lit and unobstructed.
 - The roofing and outdoor space should be well lit and unobstructed.
 - The roofing and outdoor space should be well lit and unobstructed.
 - The roofing and outdoor space should be well lit and unobstructed.



Rooftop : Exit Sign, Emergency Bell, CCTV

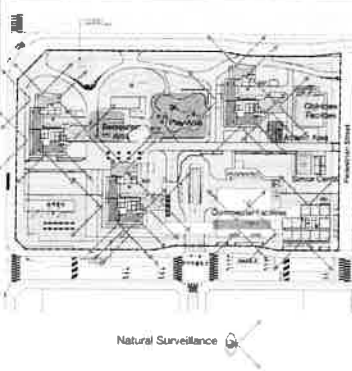


Elevator, Stair, Corridor : Window, CCTV

2. SEMI-PUBLIC SPACE

Practice based on KCA CPTED Certificate Evaluation Criteria

- 2.1 Pedestrian Area**
- The pedestrian route should be designed to enable the natural surveillance rather than area and density of its controls.
 - If the natural change of structure is required or necessary, the route should be designed to ensure the natural change of structure is required or necessary.
 - The route should be designed to ensure the natural change of structure is required or necessary.
 - The route should be designed to ensure the natural change of structure is required or necessary.
- 2.2 Play Area**
- The play area should be located close to the center of the residential development.
 - The location of the play area should be based on the location that could benefit the children's development.
 - The play area should be designed to ensure the natural change of structure is required or necessary.
 - The play area should be designed to ensure the natural change of structure is required or necessary.
- 2.3 Recreational Area**
- The recreational area should be located in the center of the residential development.
 - The location of the recreational area should be based on the location that could benefit the children's development.
 - The recreational area should be designed to ensure the natural change of structure is required or necessary.
 - The recreational area should be designed to ensure the natural change of structure is required or necessary.
- 2.4 Athletic Area**
- The athletic area should be located in the center of the residential development.
 - The location of the athletic area should be based on the location that could benefit the children's development.
 - The athletic area should be designed to ensure the natural change of structure is required or necessary.
 - The athletic area should be designed to ensure the natural change of structure is required or necessary.

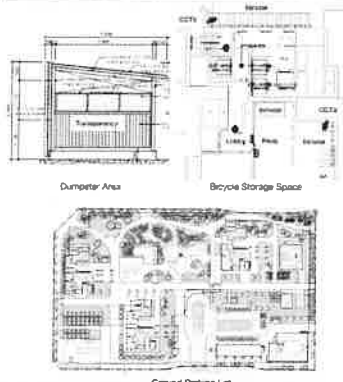


Natural Surveillance

2. SEMI-PUBLIC SPACE

Practice based on KCA CPTED Certificate Evaluation Criteria

- 2.5 Children facilities and Service center**
- Children facilities should be placed in the location that could benefit the children's development.
 - The location of the children facilities should be based on the location that could benefit the children's development.
 - The children facilities should be designed to ensure the natural change of structure is required or necessary.
 - The children facilities should be designed to ensure the natural change of structure is required or necessary.
- 2.6 Dumpster Area**
- The dumpster area should be located in the center of the residential development.
 - The location of the dumpster area should be based on the location that could benefit the children's development.
 - The dumpster area should be designed to ensure the natural change of structure is required or necessary.
 - The dumpster area should be designed to ensure the natural change of structure is required or necessary.
- 2.7 Bicycle Storage Space**
- The bicycle storage space should be located in the center of the residential development.
 - The location of the bicycle storage space should be based on the location that could benefit the children's development.
 - The bicycle storage space should be designed to ensure the natural change of structure is required or necessary.
 - The bicycle storage space should be designed to ensure the natural change of structure is required or necessary.
- 2.8 Ground Parking Lot**
- The ground parking lot should be located in the center of the residential development.
 - The location of the ground parking lot should be based on the location that could benefit the children's development.
 - The ground parking lot should be designed to ensure the natural change of structure is required or necessary.
 - The ground parking lot should be designed to ensure the natural change of structure is required or necessary.

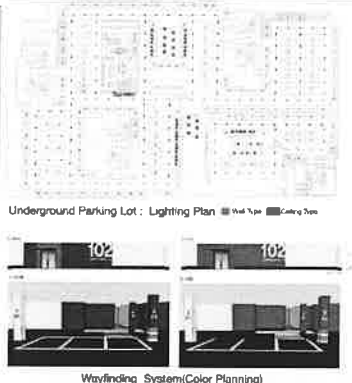


Dumpster Area
Bicycle Storage Space
Ground Parking Lot

2. SEMI-PUBLIC SPACE

Practice based on KCA CPTED Certificate Evaluation Criteria

- 2.9 Underground Parking Lot**
- The underground parking lot should be located in the center of the residential development.
 - The location of the underground parking lot should be based on the location that could benefit the children's development.
 - The underground parking lot should be designed to ensure the natural change of structure is required or necessary.
 - The underground parking lot should be designed to ensure the natural change of structure is required or necessary.
- 2.10 Wayfinding System**
- The wayfinding system should be located in the center of the residential development.
 - The location of the wayfinding system should be based on the location that could benefit the children's development.
 - The wayfinding system should be designed to ensure the natural change of structure is required or necessary.
 - The wayfinding system should be designed to ensure the natural change of structure is required or necessary.



Underground Parking Lot : Lighting Plan
Wayfinding System (Color Planning)

2. SEMI-PUBLIC SPACE

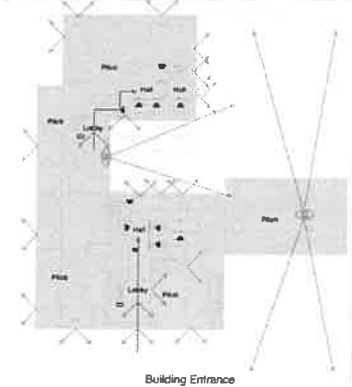
Practice based on KCA CPTED Certificate Evaluation Criteria

SEMI PRIVATE SPACE

3. SEMI-PRIVATE SPACE

Practice based on KCA CPTED Certificate Evaluation Criteria

- 3.1 Interior and Exterior Space of Building Entrance**
- The main entrance should be located in the center of the residential development.
 - The location of the main entrance should be based on the location that could benefit the children's development.
 - The main entrance should be designed to ensure the natural change of structure is required or necessary.
 - The main entrance should be designed to ensure the natural change of structure is required or necessary.
- 3.2 Elevator (Lift)**
- The elevator should be located in the center of the residential development.
 - The location of the elevator should be based on the location that could benefit the children's development.
 - The elevator should be designed to ensure the natural change of structure is required or necessary.
 - The elevator should be designed to ensure the natural change of structure is required or necessary.
- 3.3 Corridor and Stair**
- The corridor and stair should be located in the center of the residential development.
 - The location of the corridor and stair should be based on the location that could benefit the children's development.
 - The corridor and stair should be designed to ensure the natural change of structure is required or necessary.
 - The corridor and stair should be designed to ensure the natural change of structure is required or necessary.
- 3.4 Rooftop and Outdoor pipe**
- The rooftop and outdoor pipe should be located in the center of the residential development.
 - The location of the rooftop and outdoor pipe should be based on the location that could benefit the children's development.
 - The rooftop and outdoor pipe should be designed to ensure the natural change of structure is required or necessary.
 - The rooftop and outdoor pipe should be designed to ensure the natural change of structure is required or necessary.



Building Entrance
Rooftop : Exit Sign, Emergency Bell, CCTV

3. SEMI-PRIVATE SPACE

Practice based on KCA CPTED Certificate Evaluation Criteria



Elevator Hall, Corridor : Window, CCTV

Practice based on KCA CPTED Certificate Evaluation Criteria

PRIVATE SPACE


4. PRIVATE SPACE

1.1 Housing Unit
 1.1.1 Housing unit and building of mixed living unit type shall include a secure private space for each housing unit.
 1.1.2 The private space shall be secure and shall include a secure entrance and exit.
 1.1.3 The private space shall be secure and shall include a secure entrance and exit.
 1.1.4 The private space shall be secure and shall include a secure entrance and exit.
 1.1.5 The private space shall be secure and shall include a secure entrance and exit.
 1.1.6 The private space shall be secure and shall include a secure entrance and exit.
 1.1.7 The private space shall be secure and shall include a secure entrance and exit.
 1.1.8 The private space shall be secure and shall include a secure entrance and exit.
 1.1.9 The private space shall be secure and shall include a secure entrance and exit.
 1.1.10 The private space shall be secure and shall include a secure entrance and exit.




Gas Pipe with Cover

Practice based on KCA CPTED Certificate Evaluation Criteria



Housing Unit Plan



Beam Detector

Practice based on KCA CPTED Certificate Evaluation Criteria

EQUIPMENTS (CCTV, LIGHTING, EMERGENCY BELL)

5. EQUIPMENTS

5.1 CCTV Security System
 5.1.1 CCTV and a secure private space reception system shall be installed in the entrance for each housing unit and entrance.
 5.1.2 CCTV and a secure private space reception system shall be installed in the entrance for each housing unit and entrance.
 5.1.3 CCTV and a secure private space reception system shall be installed in the entrance for each housing unit and entrance.
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 5.1.10 CCTV and a secure private space reception system shall be installed in the entrance for each housing unit and entrance.

Practice based on KCA CPTED Certificate Evaluation Criteria



Exterior Space : CCTV



Underground Parking Lot : CCTV

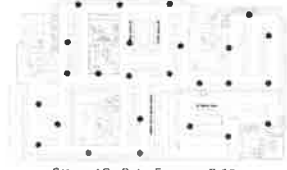
5. EQUIPMENTS

5.2 Emergency Alarm System
 5.2.1 Emergency alarm shall be properly installed around the perimeter level and floor, alarm, vibration, or seismic (line without building site).
 5.2.2 A secure alarm shall be provided at the main entrance of the entrance to the building for each housing unit and entrance.
 5.2.3 The alarm shall be provided at the main entrance of the entrance to the building for each housing unit and entrance.
 5.2.4 The alarm shall be provided at the main entrance of the entrance to the building for each housing unit and entrance.
 5.2.5 The alarm shall be provided at the main entrance of the entrance to the building for each housing unit and entrance.
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 5.2.9 The alarm shall be provided at the main entrance of the entrance to the building for each housing unit and entrance.
 5.2.10 The alarm shall be provided at the main entrance of the entrance to the building for each housing unit and entrance.




Emergency Bell Sign Design

Practice based on KCA CPTED Certificate Evaluation Criteria



Basement Car Park : Emergency Bell




Emergency Bell Sign Design


5. EQUIPMENTS

5.2.1 Complex Boundaries
 5.2.1.1 The lighting of the light at the top of the complex shall be at least 10 Lux (10 Lux) or above.
 5.2.1.2 The lighting of the light at the top of the complex shall be at least 10 Lux (10 Lux) or above.
 5.2.1.3 The lighting of the light at the top of the complex shall be at least 10 Lux (10 Lux) or above.
 5.2.1.4 The lighting of the light at the top of the complex shall be at least 10 Lux (10 Lux) or above.
 5.2.1.5 The lighting of the light at the top of the complex shall be at least 10 Lux (10 Lux) or above.
 5.2.1.6 The lighting of the light at the top of the complex shall be at least 10 Lux (10 Lux) or above.
 5.2.1.7 The lighting of the light at the top of the complex shall be at least 10 Lux (10 Lux) or above.
 5.2.1.8 The lighting of the light at the top of the complex shall be at least 10 Lux (10 Lux) or above.
 5.2.1.9 The lighting of the light at the top of the complex shall be at least 10 Lux (10 Lux) or above.
 5.2.1.10 The lighting of the light at the top of the complex shall be at least 10 Lux (10 Lux) or above.

Practice based on KCA CPTED Certificate Evaluation Criteria



Exterior Space : Lighting Plan



Exterior Space : Light Simulation(RELUX)


5. EQUIPMENTS

5.3.8 Underground Parking Lot
 5.3.8.1 The lighting of the underground parking lot shall be at least 10 Lux (10 Lux) or above.
 5.3.8.2 The lighting of the underground parking lot shall be at least 10 Lux (10 Lux) or above.
 5.3.8.3 The lighting of the underground parking lot shall be at least 10 Lux (10 Lux) or above.
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 5.3.8.9 The lighting of the underground parking lot shall be at least 10 Lux (10 Lux) or above.
 5.3.8.10 The lighting of the underground parking lot shall be at least 10 Lux (10 Lux) or above.



Building Entrance (Night)

Practice based on KCA CPTED Certificate Evaluation Criteria



Building Entrance : Lighting Plan

Practice based on KCA CPTED Certificate Evaluation Criteria

Thank you