





In-Seub, Gin

Professional Construction Manager

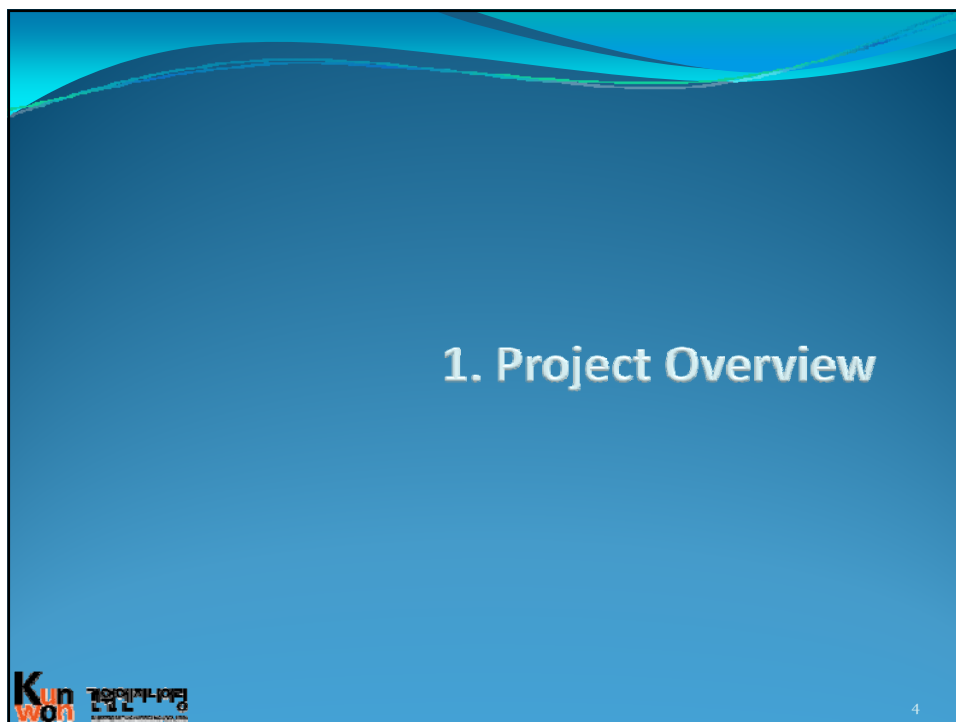
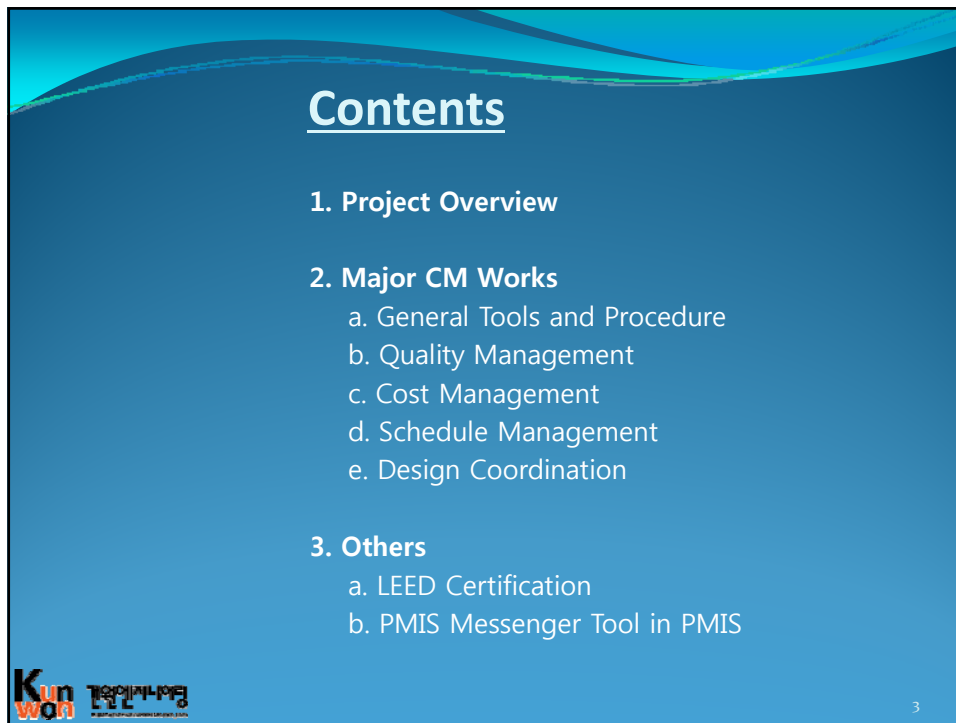
Vice President
Kunwon Engineering Co.
Chief of NSIC Project CM Team

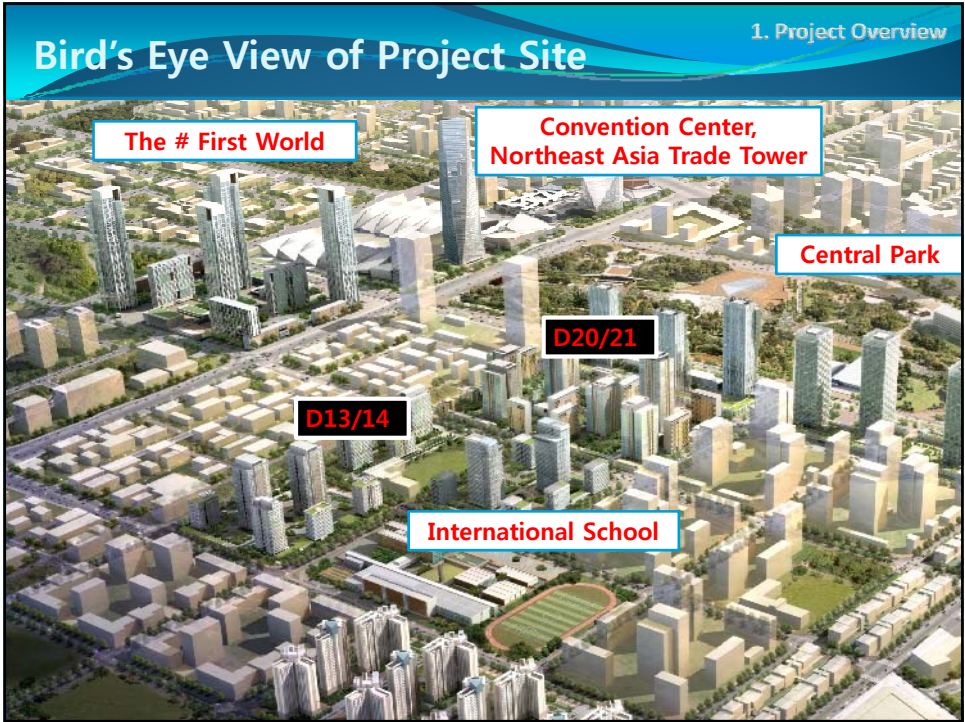
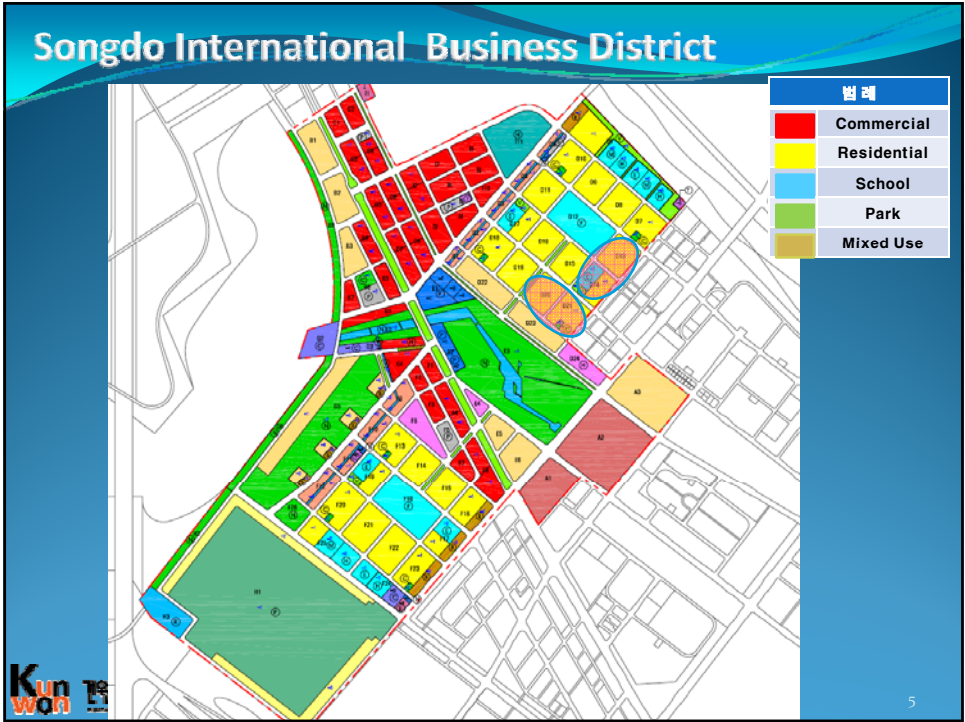
Former,
Manager of Overseas Project Dep.
- **Daelim Industrial Co.**
Bachelor of Arch Eng.
- **Seoul National University,**

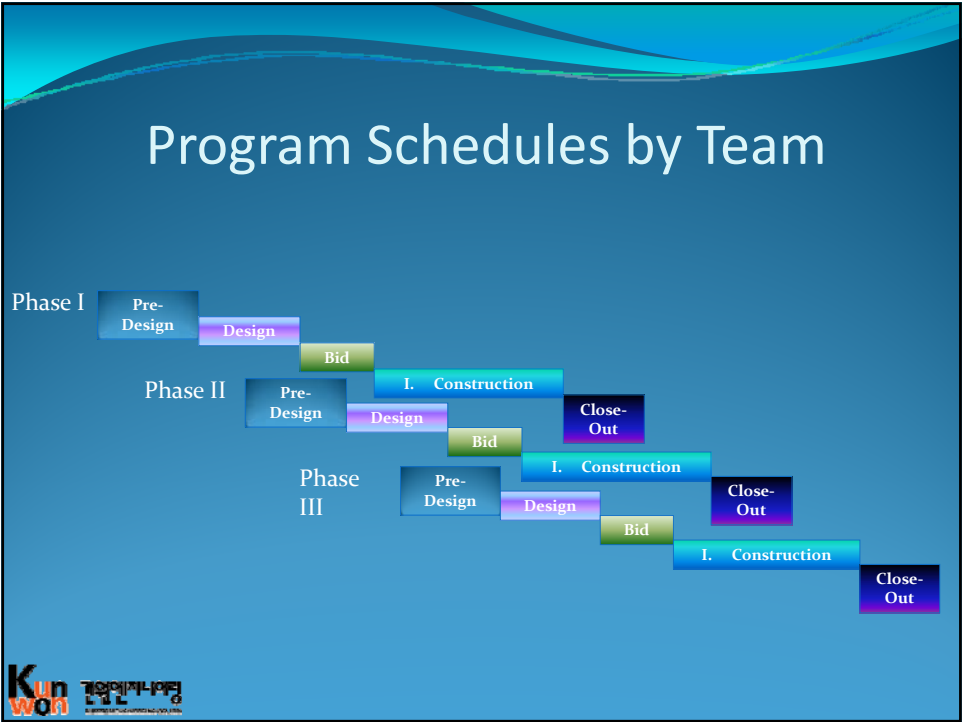
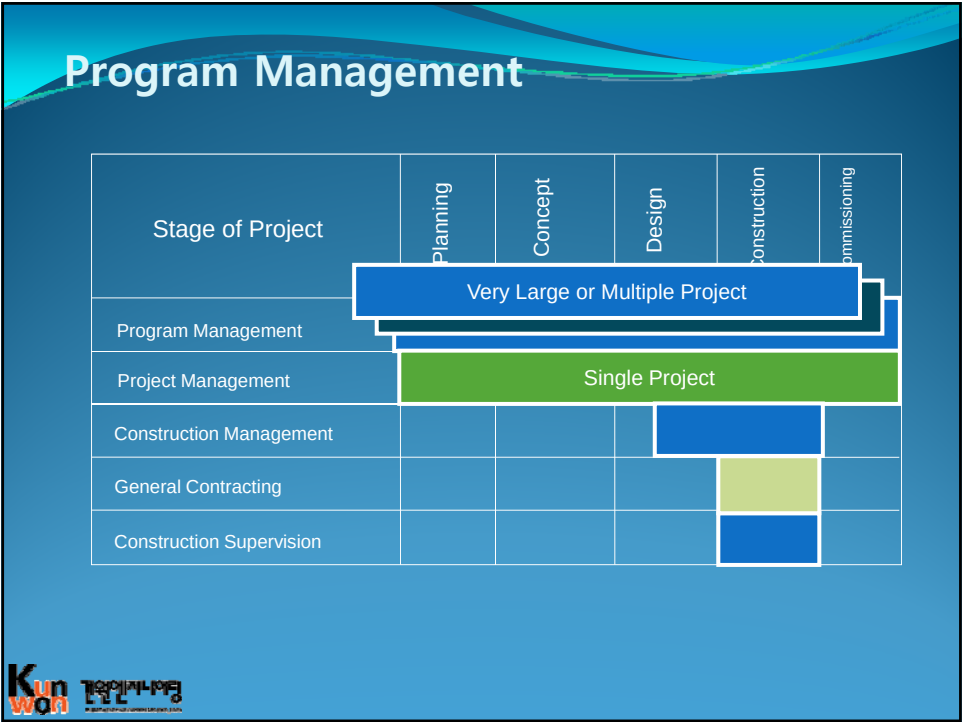
Office : 032-851-0093 (Songdo)
Cell : 010-2962-6161
E-mail : isginisi@naver.com



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1. Project Overview

D13/14 Block

- Project : NSIC D13/14 Block Const.
- Location : 17-5, 18-10 Songdo-Dong
Yonsoo-Gu, Incheon-Si
- Land Area : 50,773m²
- Building : **B2F~33F, 845 units,**
12 Residential Bldg., 5 Amenity Bldg.
 - Building Area : 10,184m²
 - Total Floor Area : 190,933m²
 - B.L.R : 20.06%
 - F.A.R : 241.54%
 - Landscape Area : 20,688m²
- Structural Type : R.C.
- Cost : ₩300,000,000,000
- No. of Parking : 1,764
- Period : 2007.12 ~ 2011.04 (41Mth)
- Client(Owner):
New Songdo International City
Development Limited Liability Company

Kunwon **글로벌 컨설팅**
KUNWON GLOBAL CONSULTING CO., LTD.

10. Contractor / Designer

MC	Address	588-1, Goldong-Dong, Nam-Gu, Pohang-Si, Gyeongsangbuk-Do		
	Company	Posco E&C	Telephone	054-223-6114
	Reader	Su-yang Han	ID Number	
Design	Address	726-1, Suseo-Dong, Gangnam-Gu, Seoul		
	Company	Heerim	Telephone	02-3410-9000
	Reader	Young-Gyun Jung	ID Number	



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1. Project Overview

D20/21 Block

- Project : NSIC D20/21 Block Const.
- Location : 19-6 Songdo-Dong Yonsoo-Gu,
Incheon-Si
- Land Area : 65,555m²
- Building : **B2F~41F, 1069 Units,**
17 Residential Bldg., 15 Amenity Bldg.
 - Building Area : 13,975m²
 - Total Floor Area : 266,822m²
 - B.L.R : 20.06%
 - F.A.R : 273.5%,
 - Landscape Area : 26,719m²
- Structural Type : R.C.
- Cost : ₩398,000,000,000
- No. of Parking : 2,221
- Period : 2007.07 ~ 2011.02 (44Mth)
- Client(Owner):
NSC Linkage II Co. Ltd. (Gale International Korea)

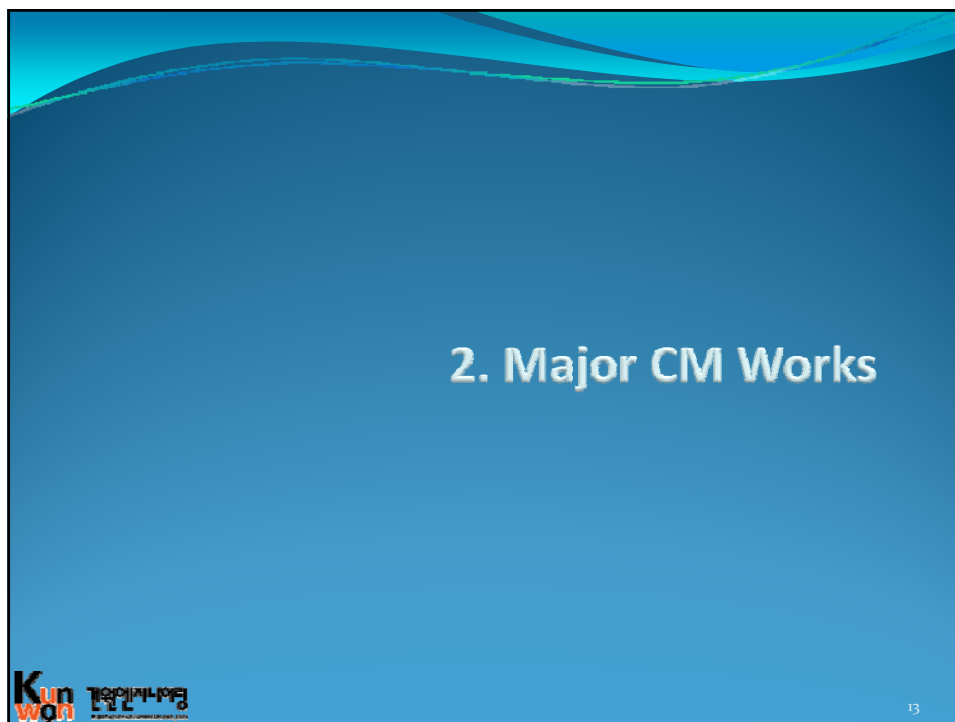
Kunwon **글로벌 컨설팅**
KUNWON GLOBAL CONSULTING CO., LTD.

10. Contractor / Designer

MC	Address	537, Namdaemoon-Ro 5Ga, Jung-Gu, Seoul		
	Company	GS E&C	Telephone	02-2005-1114
	Reader	Gab-Lyeol Kim	ID Number	
Design	Address	945-30, Daechi-Dong, Gangnam-Gu, Seoul		
	Company	MooYoung	Telephone	02-3011-1400
	Reader	Gil-Won An	ID Number	



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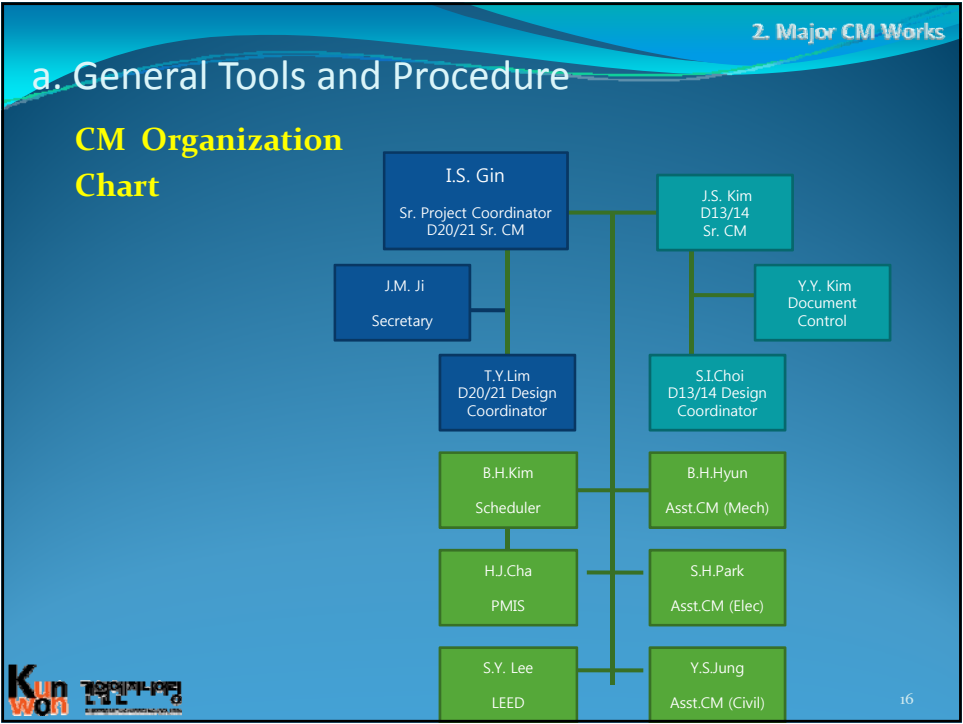
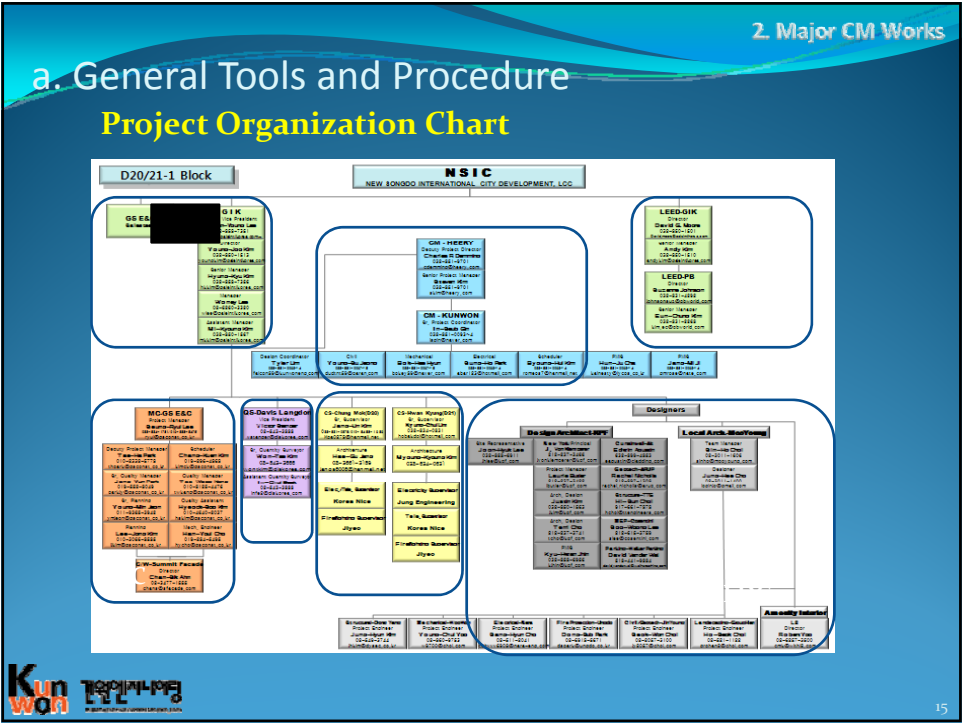
2. Major CM Works

a. General Tools and Procedure

➤ Project Teams

Descr.	Block	D20	D21	D13	D14	Remarks
Owner	Intl.	Gale International (70%)				NSIC (Joint Developer)
	Local	Posco E&C (30%)				
CM	Intl.	Heery International				Co-work & Separate Contract
	Local	Kunwon Engineering				
Designer	Intl.	KPF				DD Phase
	Local	Mooyoung		Heerim		CD Phase
Quantity Surveyor	Intl.	David Langdon & Seah Korea				
CS	Local	Chungmok	Hwankyung	Chonil	Potek	Based on Housing Law
MC	Local	GS E&C		Posco E&C		

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2. Major CM Works

[illegible]

2. Major CM Works

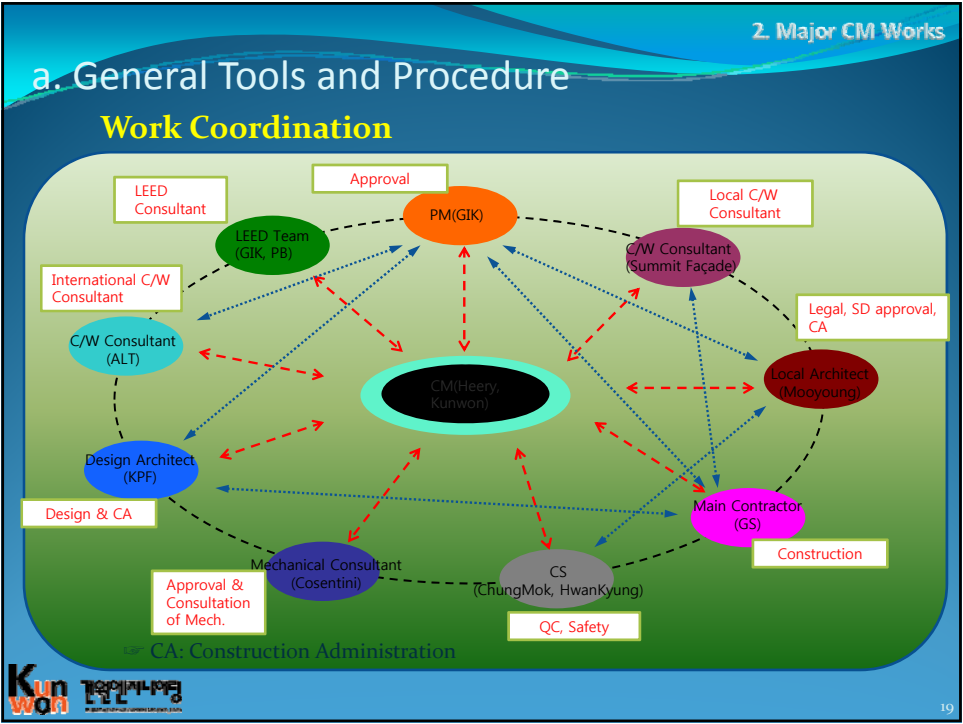
Project Document Distribution Matrix

LEGEND

- P Prepare / Performance / Initiate
- R Reply / Respond
- A Approval / Authorization
- T To - For Action / Delegation / Close out
- CC - For Information
- S Selective /Additional/ Distribution by CM

Distribution List

PM	CM	CB	LOCAL DESIGN GROUP	GM
GMK	Heavy	Medium	Light	Heavy
GMK	Heavy	Medium	Light	Heavy
GMK	Heavy	Medium	Light	Heavy
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GMK	Heavy	Medium	Light	Heavy



2. Major CM Works

a. General Tools and Procedure

Meeting Attendance Matrix

	D20/21							D13/14						
	Weekly Progress	Pre-weekly Progress	Contract Meeting	Design Meeting	LEED Meeting	OS Meeting	Schedule Meeting	Weekly Progress	Pre-weekly Progress	Contract Meeting	Design Meeting	LEED Meeting	OS Meeting	Schedule Meeting
Charles Demming	o	o	o					o	o	o				
Steven Kim	o	o	o				o	o	o	o				o
InSeub Gin	o	o	o			o								
JeSeub Kim	o	o	o			o		o	o	o			o	
YongBok Park														
SeungIn Choi								o	o	o	o	o	o	
TeeYoen Lim	o	o	o	o	o	o								
SungSu Choe														
GiUoong Kim					o						o			
SungHo Park					o						o			
ByoungHui Kim	o					o	o						o	o
HunJu Cha							o	o						o
SoYoung Lee	o		o	o	o		o			o	o	o		
JangMi Ji								o						
YeonJin Kim						o							o	

In Charge of MOM :

Kunwon

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2. Major CM Works

a. General Tools and Procedure

PMIS Home Page

Home

Help Desk

Bulletin

SMS

Calendar

MyInfo

Logout

Korean

Information

Documents

Drawing & Specification

DataBank

Cost

Progress

Webhard

Approval

LEED

NSC Calendar

January 2010

Common Zone

BOAT NEATT

Central Park

Golf Course

CC Hotel

B35 SPEC OFFICE

D23

Nursery

CB-2

D24

ES-R

F8

INFRA

Convention Center

NSCIS

D13,14

D20,21

D22

A1,A2 RETAIL

Detailed Cityscape Plan

D15

D1-5

D19

D6,9,10

ES-U

F3,4,5

Dayoff

Upcoming Schedule

Annual leave

Pre-Meeting for Periodic Project Progr

Periodic Project Progress/Coordination

Periodic Project Progress/Coordination

Control Valve Presentation

Periodic Project LEED Meeting

Periodic Project Progress/Coordination

Change Order Meeting

Schedule Meeting

조경분야 보안 설계변경 관련 프리젠테이션

D23 Team Meeting

Official Document Approval

Project	New	Updated	AR	Action	Pending	Approval
Common Zone	1	0	0	0	0	0
D13,14	40	287	0	14	0	0
D20,21	47	186	0	31	0	0
D15	0	0	0	0	0	0
D7,8	1	0	0	1	0	0

Project Progress

Conceptual

Schematic

Design Development

Construction Design

100%

100%

100%

100%

Plan

Actual

100%

100%

NSCIS(03-02-2009)

Conceptual

Schematic

Design Development

Construction Design

100%

100%

100%

100%

Plan

Actual

98%

98%

2. Major CM Works

a. General Tools and Procedure

PMIS > Documents

Home

Help Desk

Bulletin

SMS

Calendar

MyInfo

Logout

Korean

Information

Documents

Drawing & Specification

DataBank

Cost

Progress

Webhard

Approval

LEED

Incoming

Letter

Mail

RFI

Transmittal

Submittal

RFDC

RFCC

Change Order

Construction Chan

New Minutes of M

Meeting Notice

Outgoing

Official Document

My Cabinet

Project : Whole Project

Subject :

From :

Content :

Period :

Retrieve

New

Delete

Print

My Cabinet

INCOMING MAIL

No	Title	From	Date
3471	[1월 25일] PMIS & Admin Meeting 업무 관리 대장	HunJu Cha	25-01-2010
3470	[RE] [FW] [D20/21-1]Request for Contract Scope Check	Tyler Lim	25-01-2010
3469	제출지연 Submittal 일정조정 요청	Donghwan Min	25-01-2010
3468	[RE]2 Item#52. 건설사업단계별 업무요약(CM Navigator)	HunJu Cha	22-01-2010
3467	[RE]2 Item#52. 건설사업단계별 업무요약(CM Navigator)	HunJu Cha	22-01-2010
3466	[FW] [D20/21-1]Request for Contract Scope Check	Tyler Lim	22-01-2010
3465	EA, T/C, U/C 일정	JungJoo Im	22-01-2010
3464	D20/21-1 Weekly PM Report	Steven Kim	22-01-2010
3463	D13/14-1 Weekly PM Report	Harry Kim	21-01-2010
3462	Letter Tracking Log 내부 검토 메일	JangMi Ji	21-01-2010
3461	D13/14 Letter Tracking List 내부 검토 메일 [112309-012110]	DooRi Kim	21-01-2010
3460	[D13/14-1] Weekly Team Meeting Agenda	SeungIn Choi	21-01-2010
3459	[D20/21-1]Draft Issue List	Tyler Lim	21-01-2010
3458	[RE] [D2021]Submittal Packaging Log Revision	Steven Kim	21-01-2010

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2. Major CM Works

a. General Tools and Procedure

➤ Means of Communication for Different Views

✓ Meeting

- Review & Comments on Draft MOM
- Agree & Accept
- Follow up

✓ PMIS Process

- RFI, RFDC, SUBMITTAL
- Reply, Comment, Discussion**
- Conclusion



Reply & Comments

Request For Information

**New Songdo City
Development, LLC**

Site: SONGDO - NEW / 100 / 001
 2. Design Job for FIGHTING Posing Drawing MOCA

To : [XWENG] SeungHo Cha CC : [SJK] SeungHo Joo Req. Date : 13-03-2009 Classification : Architectural Subject : Request for review of thermal insulation	Date : 06-03-2009 Ref. No. : D1314741-PHC-0058 From : [PHC] DongWook Kim	
---	--	--

Reply Required Date : 13-03-2009

이첨경&이진희 건축사사무소 건축사사무소 (이첨경&이진희),

(이첨경) 1401, 1404, 1405, 1406, 1407, 1408, 1409, 1410, 1411, 1412, 1413, 1414, 1415, 1416, 1417, 1418, 1419, 1420, 1421, 1422, 1423, 1424, 1425, 1426, 1427, 1428, 1429, 1430, 1431, 1432, 1433, 1434, 1435, 1436, 1437, 1438, 1439, 1440, 1441, 1442, 1443, 1444, 1445, 1446, 1447, 1448, 1449, 1450, 1451, 1452, 1453, 1454, 1455, 1456, 1457, 1458, 1459, 1460, 1461, 1462, 1463, 1464, 1465, 1466, 1467, 1468, 1469, 1470, 1471, 1472, 1473, 1474, 1475, 1476, 1477, 1478, 1479, 1480, 1481, 1482, 1483, 1484, 1485, 1486, 1487, 1488, 1489, 1490, 1491, 1492, 1493, 1494, 1495, 1496, 1497, 1498, 1499, 1500, 1501, 1502, 1503, 1504, 1505, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1516, 1517, 1518, 1519, 1520, 1521, 1522, 1523, 1524, 1525, 1526, 1527, 1528, 1529, 1530, 1531, 1532, 1533, 1534, 1535, 1536, 1537, 1538, 1539, 1540, 1541, 1542, 1543, 1544, 1545, 1546, 1547, 1548, 1549, 1550, 1551, 1552, 1553, 1554, 1555, 1556, 1557, 1558, 1559, 1560, 1561, 1562, 1563, 1564, 1565, 1566, 1567, 1568, 1569, 1570, 1571, 1572, 1573, 1574, 1575, 1576, 1577, 1578, 1579, 1580, 1581, 1582, 1583, 1584, 1585, 1586, 1587, 1588, 1589, 1590, 1591, 1592, 1593, 1594, 1595, 1596, 1597, 1598, 1599, 1600, 1601, 1602, 1603, 1604, 1605, 1606, 1607, 1608, 1609, 1610, 1611, 1612, 1613, 1614, 1615, 1616, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1631, 1632, 1633, 1634, 1635, 1636, 1637, 1638, 1639, 1640, 1641, 1642, 1643, 1644, 1645, 1646, 1647, 1648, 1649, 1650, 1651, 1652, 1653, 1654, 1655, 1656, 1657, 1658, 1659, 1660, 1661, 1662, 1663, 1664, 1665, 1666, 1667, 1668, 1669, 1670, 1671, 1672, 1673, 1674, 1675, 1676, 1677, 1678, 1679, 1680, 1681, 1682, 1683, 1684, 1685, 1686, 1687, 1688, 1689, 1690, 1691, 1692, 1693, 1694, 1695, 1696, 1697, 1698, 1699, 1700, 1701, 1702, 1703, 1704, 1705, 1706, 1707, 1708, 1709, 1710, 1711, 1712, 1713, 1714, 1715, 1716, 1717, 1718, 1719, 1720, 1721, 1722, 1723, 1724, 1725, 1726, 1727, 1728, 1729, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1743, 1744, 1745, 1746, 1747, 1748, 1749, 1750, 1751, 1752, 1753, 1754, 1755, 1756, 1757, 1758, 1759, 1760, 1761, 1762, 1763, 1764, 1765, 1766, 1767, 1768, 1769, 1770, 1771, 1772, 1773, 1774, 1775, 1776, 1777, 1778, 1779, 1780, 1781, 1782, 1783, 1784, 1785, 1786, 1787, 1788, 1789, 1790, 1791, 1792, 1793, 1794, 1795, 1796, 1797, 1798, 1799, 1800, 1801, 1802, 1803, 1804, 1805, 1806, 1807, 1808, 1809, 1810, 1811, 1812, 1813, 1814, 1815, 1816, 1817, 1818, 1819, 1820, 1821, 1822, 1823, 1824, 1825, 1826, 1827, 1828, 1829, 1830, 1831, 1832, 1833, 1834, 1835, 1836, 1837, 1838, 1839, 1840, 1841, 1842, 1843, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1857, 1858, 1859, 1860, 1861, 1862, 1863, 1864, 1865, 1866, 1867, 1868, 1869, 1870, 1871, 1872, 1873, 1874, 1875, 1876, 1877, 1878, 1879, 1880, 1881, 1882, 1883, 1884, 1885, 1886, 1887, 1888, 1889, 1890, 1891, 1892, 1893, 1894, 1895, 1896, 1897, 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909, 1910, 1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921, 1922, 1923, 1924, 1925, 1926, 1927, 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985

Reply & Comments

2. Major CM Works

b. Quality Management

- **Coordination with CS**
 - ✓ Quality Inspection
 - ✓ Design Change Coordination
 - ✓ Safety Management, Quality Management
 - ✓ Coordination between Owner and CS
 - ✓ Coordination in PMIS

2. Major CM Works

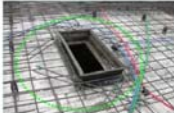
➤ Submittal Packaging Log

[illegible]

2. Major CM Works

➤ Inspection Reports

- Deficiency Notice (DN)
- Non Conformance Report (NCR)
- Safety Corrective Action Request (SCAR)
- Field Instruction (FI)
- Punch List

		Deficiency Notice		New Songdo City Development J.L.C.	
New Songdo City Development Project					
Tx	: [000000] Huda Cha	Date	: 04/05/2019		
CC	:	Rpt. No.	: E1314-NEW-KWENG-0004		
BCC	:	From	: [000000] Hakhyun Song		
		A	B	C	Comment
		Deficiency Notice			
Subject: [000000] [000000]		No. E1314-NEW-KWENG-0004			
Photo:		Date	2019-04-04		
		Location	1301 Bldg		
		Trade	[000000] [000000]		
Note:					
		A	B	C	Comment
Remedial Report					
Subject: [000000] [000000]		No. E1314-NEW-KWENG-0004			
Photo:		Date	2019-04-05		
		Location	1301 Bldg		
		Trade	[000000] [000000]		
Note:	[000000] [000000]				

2. Major CM Works

c. Cost Management

Review of MC's Claim and Reporting

Item Description	GC's New BOQ (Sep 2008)				CM's Review (million krw)			
	Original Contract	Reason of Cost Difference	New BOQ	Diff. Amount	CM's Opinion	Category		Diff. Amount
					DLSK's Opinion	O	X	
SCW Work	-	The depth of H-Pile was changed from 21.5m to 18.5 m.	-10	-10	Based on the Lump Sum Contract, these are not contractual change issues. Therefore cost change is not acceptable. Same as CM (Already Solved)			
Earth Anchor Work	-	The length of Anchor was extended to 21.5m	520 (Add.)	520			1	-
Earth Work	-	The distance of soil disposal was extended from 25km to 35km	170	170				
Sum	-		680	680			-	

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2. Major CM Works

c. Cost Management

Main Contractor's Claim (40bil. won -> 10bil. won)

- Value Engineering for Owner as well as MC
- Limited Value Engineering during the Construction Phase

Item 9	제안명	Decorative Grill	대상분야	건축
	요약설명	그릴의 시공 상세 단순화 및 자재 변경을 통한 원가절감 도모	도면번호	D20D-A-387.1
내용	기존안		개선안	
장단점	우수 유입방지 성능 우수 외관 미려 시공성 저하 자재비용 고가		시공성 우수 원가 절감 우수 유입방지 성능 저하	
검토내용	외부 그릴의 시공 상세를 단순화하고 알루미늄으로 대체 및 우수 유입방지 시스템의 단순화를 통한 시공성 및 원가절감 확보			
비용	기존안	개선안	절감비용	비고
	4,125,000,000원	2,514,000,000원	1,611,000,000원	향후 추가협상 필요

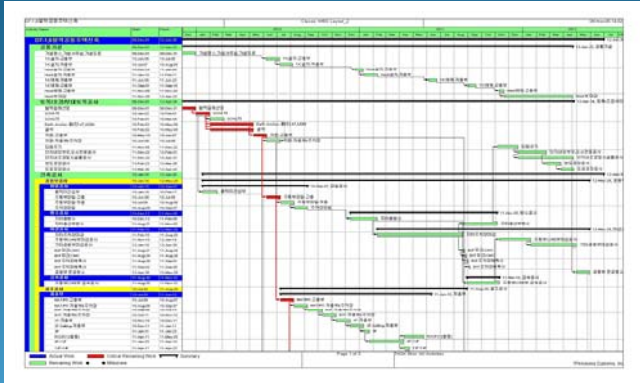
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2. Major CM Works

d. Schedule Management

- Developing and updating Project Master Schedule (**Premavera 3**)



- Checking the Baseline Schedule, Catch-up Schedule and Schedule Delay

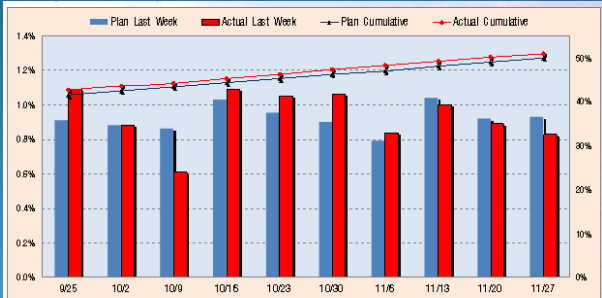
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2. Major CM Works

d. Schedule Management

- Biweekly Schedule Meeting**
- Critical Path Analysis



구 분	9월 25일	10월 2일	10월 9일	10월 16일	10월 23일	10월 30일	11월 6일	11월 13일	11월 20일	11월 27일
Plan Last Week	0.91%	0.88%	0.86%	1.03%	0.95%	0.90%	0.79%	1.04%	0.92%	0.93%
Plan Cumulative	41.57%	42.45%	43.31%	44.34%	45.29%	46.19%	46.98%	48.02%	48.94%	49.87%
Actual Last Week	1.09%	0.88%	0.61%	1.09%	1.05%	1.06%	0.84%	1.00%	0.89%	0.83%
Actual Cumulative	42.65%	43.53%	44.14%	45.23%	46.28%	47.34%	48.18%	49.18%	50.07%	50.90%

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2. Major CM Works

d. Schedule Management

- Catch-up of 4 months' delay of the Construction Supervisor's assignment for D2o block; Costing 1 bil KRW
- 1st Stage: 50 days catch-up
 - Night Work for RCD & SCW
 - Payment for Overtime Work of CS (Construction Supervisor)
- 2nd Stage: 40 days catch-up
 - Night Work for Excavation, Earth Anchor & Piling
 - Additional Access Ramp
 - Rush Work for Substructure of Critical Path High-rise Bldg
- 3rd Stage: 33 days catch-up
 - Rush Work for Superstructure of Critical Path High-rise Bldg


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2. Major CM Works

d. Schedule Management

- Schedule Catch-up Plan for 4 months delay by CS Problem

■ Acceleration Work Proposal #2 for D20 BL

Summary of Acceleration Proposal #1

RCD Work Reduction



1. Input 2 Equipments for A-20 [RCD Piling] first.
And Inspection and pouring concrete in 24hrs (including Night work)

2. Reduction duration : total 50 calendar days (45 Working days)
End date from 2008-JUN-19 to 2008-APR-30

Reduce 50 days

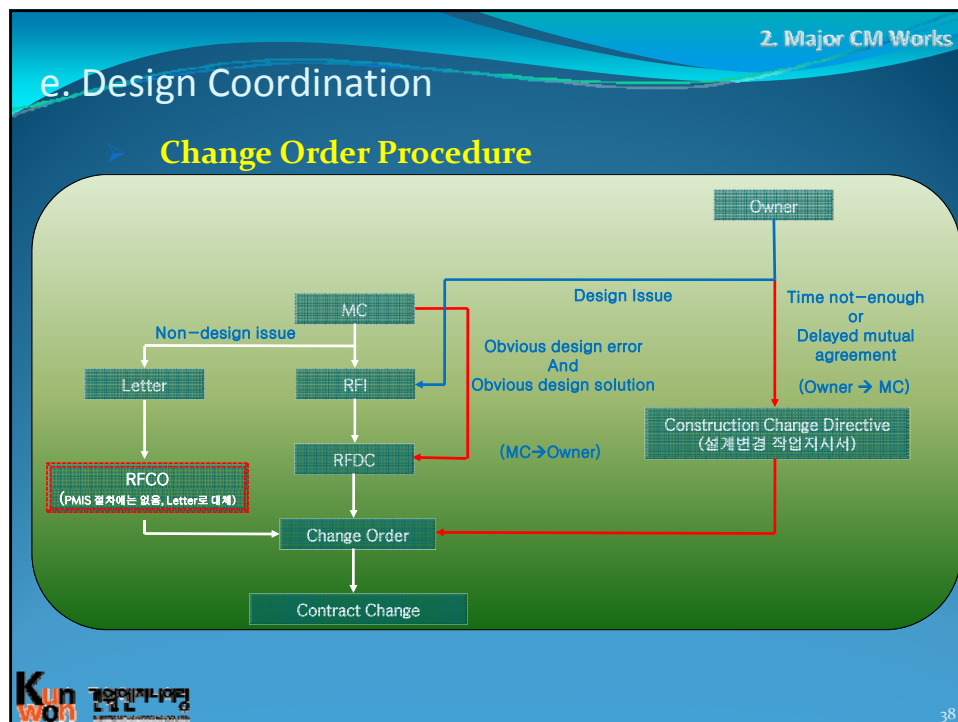

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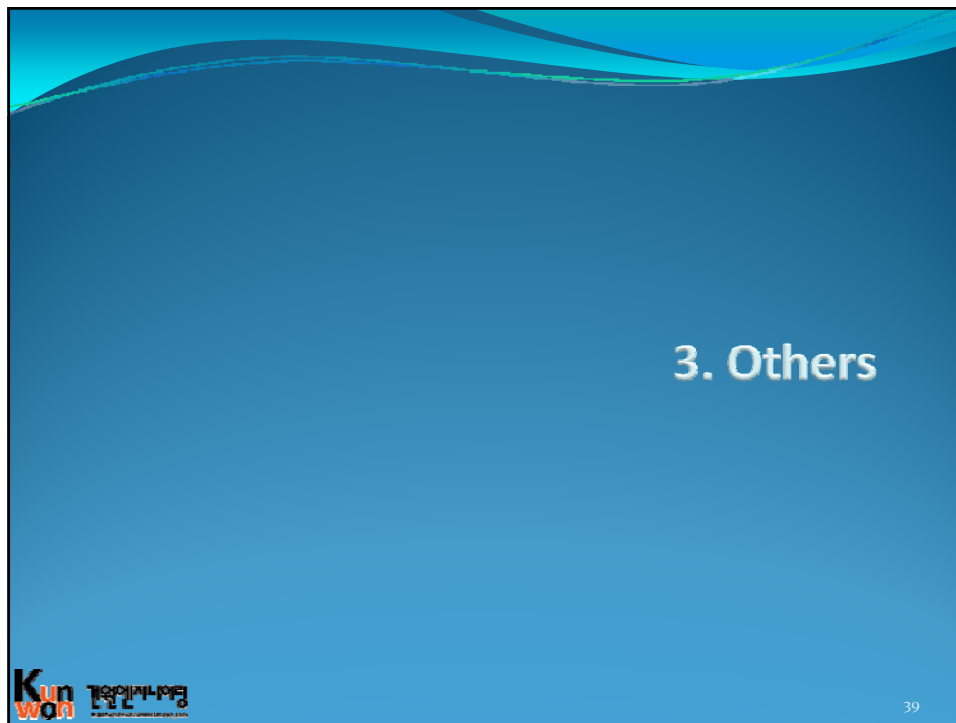
2. Major CM Works

e. Design Coordination

- **Constructability Review for the final CD Drawing**
 - Schedule Review
 - Workability Review at the site condition
 - Review for detailed method statements
- **Value Engineering during Construction Phase**
- **Review, Distribution and Approval of Shop Drawings**
 - Coordination of Approval Process by Design Group & Consultants

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3. Othes

a. LEED Certification

➤ **LEED Certifications (Version 2.2)**

Points	Certification
26-32 points	LEED Certified Project
33-38 points	LEED Silver Certification
39-51 points	LEED Gold Certification
52-69 points	LEED Platinum Certification



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➤ **Credits for Certification**

1) Sustainable Sites (SS):	14 points available
2) Water Efficiency (WE):	5 points available
3) Energy and Atmosphere (EA):	17 points available
4) Materials and Resources (MR):	13 points available
5) Indoor Environmental Quality (EQ):	15 points available
6) Innovation and Design Process (ID):	4 points available
	+ 1 point
Sum	: 69 points

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3. Othes

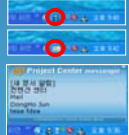
b. PMIS Messenger Tool in PMIS

- Real-time Communication and Data Transmission
- Easy Recording and Documentation
- Easy Talks with Co-workers






D20/21BL



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Thank you!

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