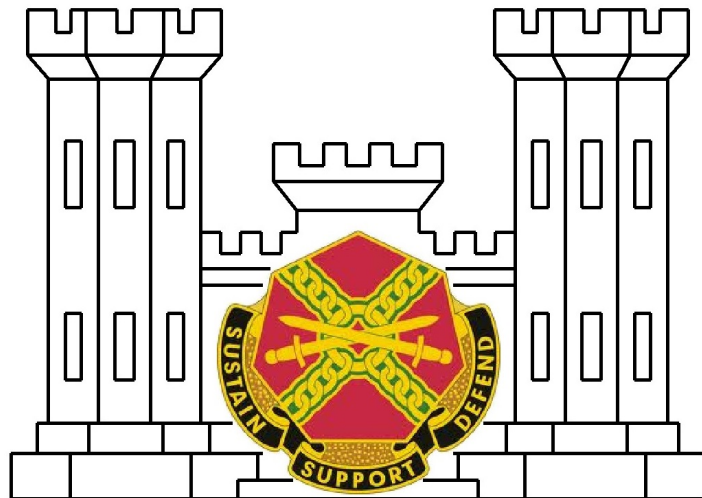


**STANDARD DETAIL
DRAWINGS
FOR
O&MA PROJECTS, KOREA**



30 NOVEMBER 2015

**DEPARTMENT OF THE ARMY
INSTALLATION MANAGEMENT COMMAND**

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- CIVIL
- ARCHITECTURAL
- MECHANICAL
- ELECTRICAL

CIVIL STANDARD DETAILS

30 NOVEMBER 2015

DEPARTMENT OF THE ARMY
INSTALLATION MANAGEMENT COMMAND

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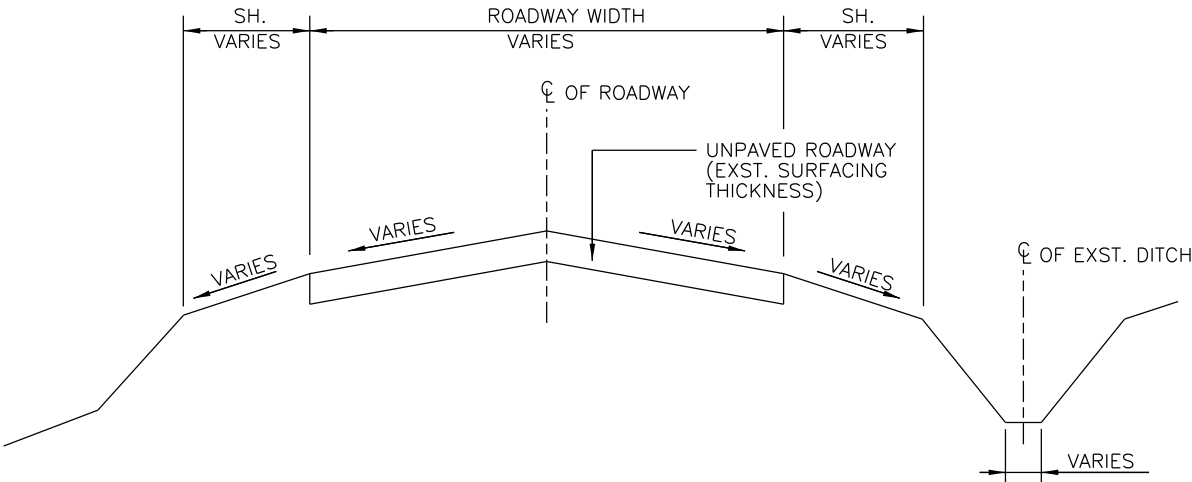
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CONCRETE RETAINING WALL - 2	C - N/A - 1109
CONCRETE RETAINING WALL - 3	C - N/A - 1110

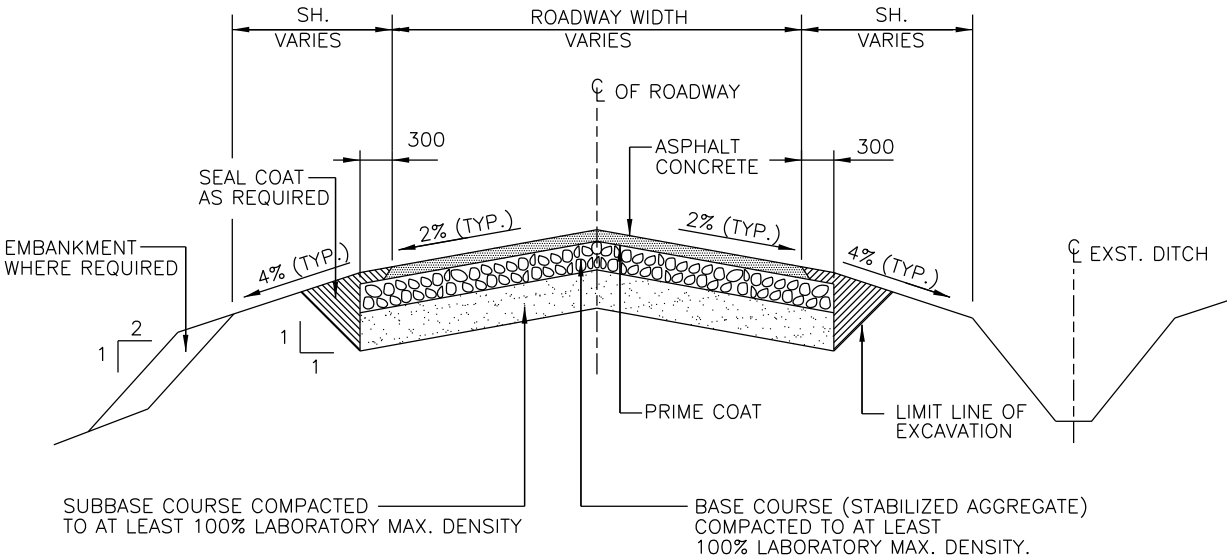
AIR FIELD

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NOTE ; REPAIR DITCHES WHEN CALLED FOR SEPARATELY



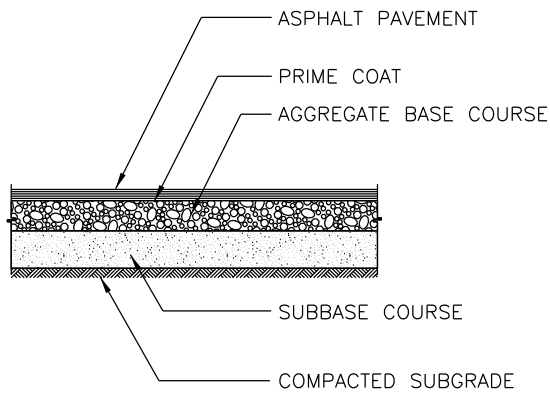
EXST. UNPAVED ROADWAY SECTION – TYP.
NOT TO SCALE



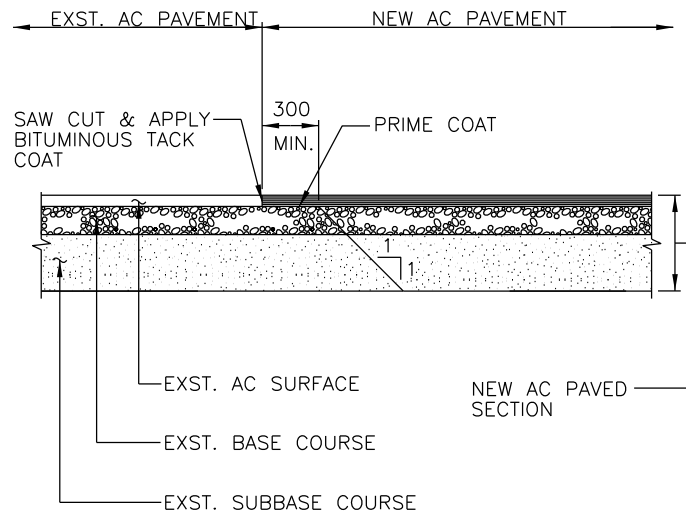
NEW AC. PAVEMENT INSTALLATION
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	NEW AC PAVING ON EXST. UNPAVED ROAD	321216	C - 101

REV DATE: NOV 2015



NEW ASPHALT CONCRETE
NOT TO SCALE



AC PAVEMENT TRANSITION DETAIL
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

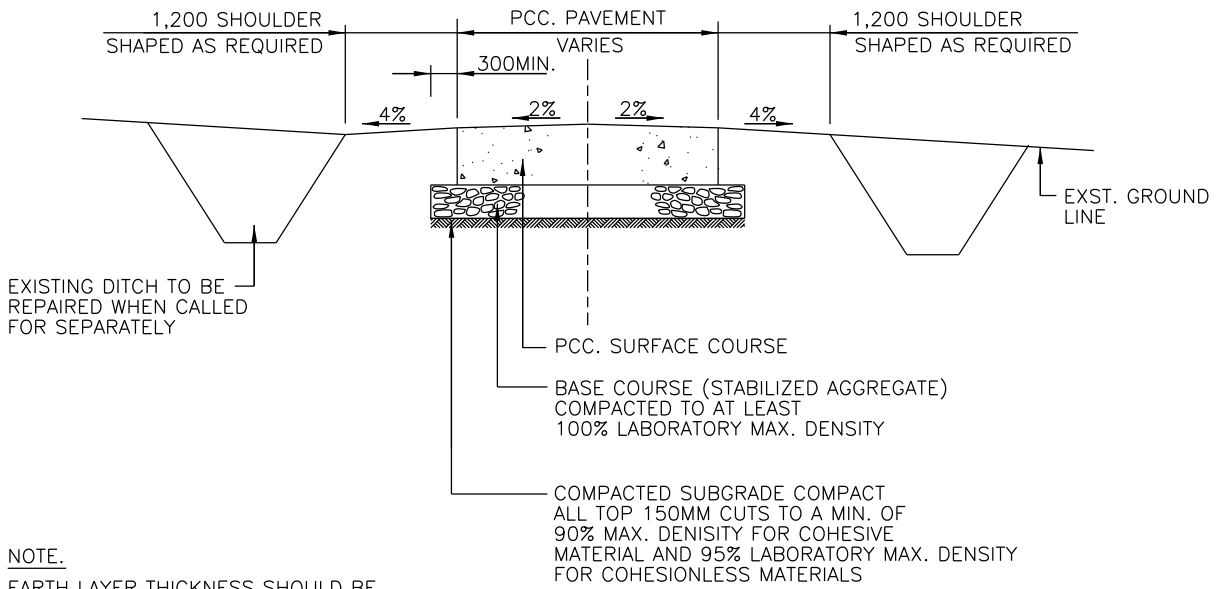
DWG NO.

TITLE

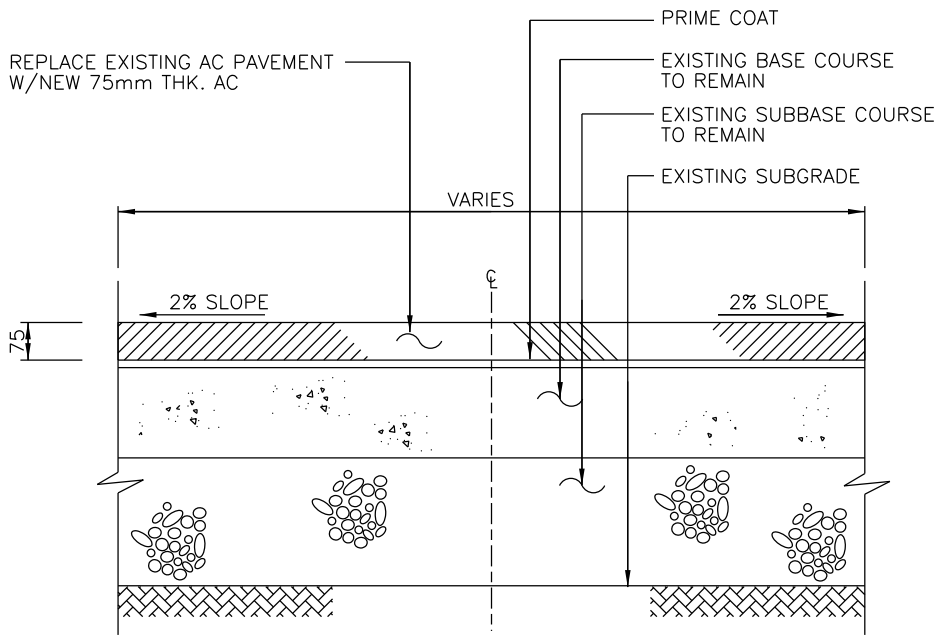
AC PAVEMENT SECTION /
AC PAVEMENT TRANSITION DETAIL

321216

C - 102



PORTLAND CEMENT CONCRETE (PCC.) PAVEMENT
NOT TO SCALE

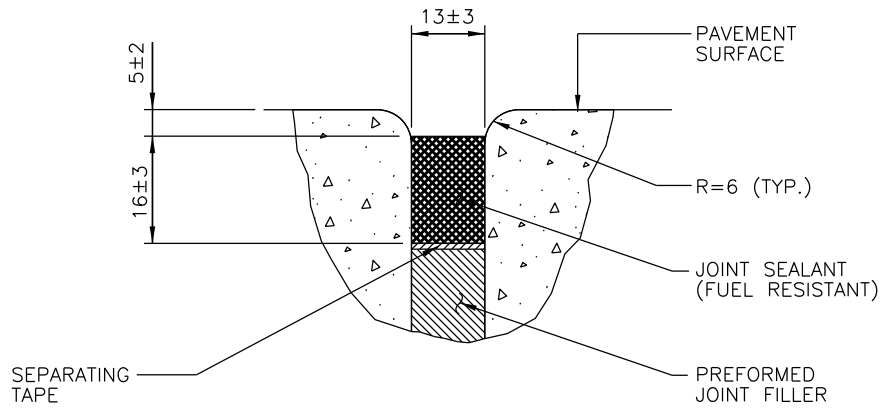


SECTION

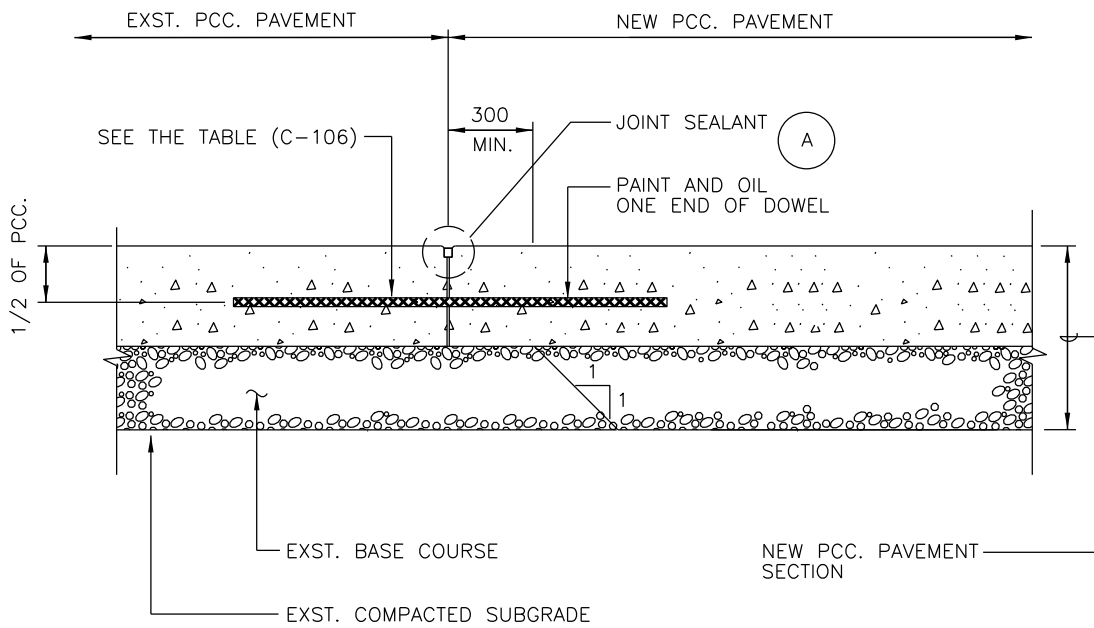
NOTE :
ALL CRACK & POT HOLE SHALL BE REPAIRED PRIOR TO DO THE NEW AC PAVING.

75mm THK. AC ON BASE COURSE
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PCC. PAVEMENT & 75MM THK. AC. ON BASE COURSE	321313.06	C - 103



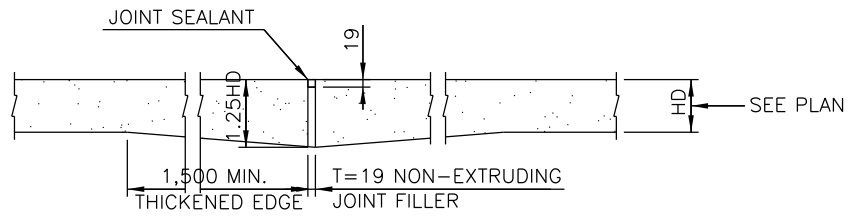
(A) CONSTRUCTION JOINT



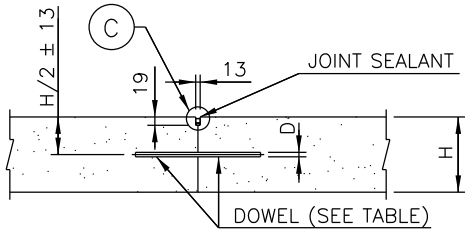
NEW PCC./EXST. PCC. PAVEMENT JOINT DETAIL
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	NEW PCC/EXST. PCC PAVEMENT JOINT SECTION	321373	C - 104

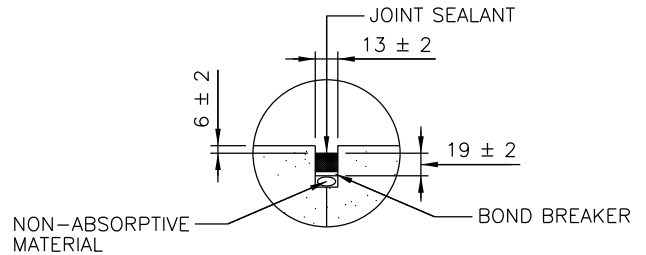
REV DATE: NOV 2015



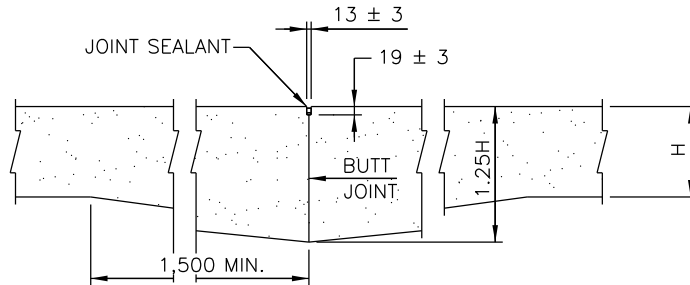
(A) THICKENED EDGE EXPANSION JOINT



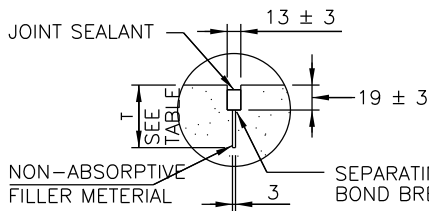
(B) DOWELED CONSTRUCTION JOINT



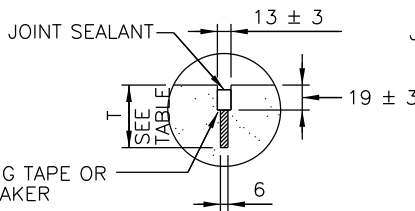
(C) CONSTRUCTION JOINT DETAIL



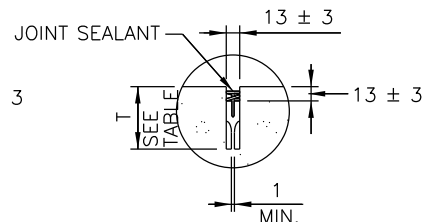
(D) THICKENED EDGE LONGITUDINAL CONSTRUCTION JOINT



(E) SAWED JOINT



(F) FIBERBOARD FILLER JOINT



(G) PREFAB METAL JOINT

PAVEMENT THICKNESS H (mm)	DEPTH OF CONTRACTION JOINT T (mm)
225 OR LESS	38
250	47
300	50
350	72
400	78

AIR FORCE PROJECTS	
PAVEMENT THICKNESS H (mm)	DEPTH OF CONTRACTION JOINT T (mm)
≤ 250	1/4 H
300 - 400	75

NOTE:
DO NOT USE PREFAB METAL JOINT
FOR AIR FORCE PROJECTS

(H) CONTRACTION JOINT DETAILS

THICKENED EDGE EXPANSION JOINT & CONSTRUCTION JOINT (PCC)
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

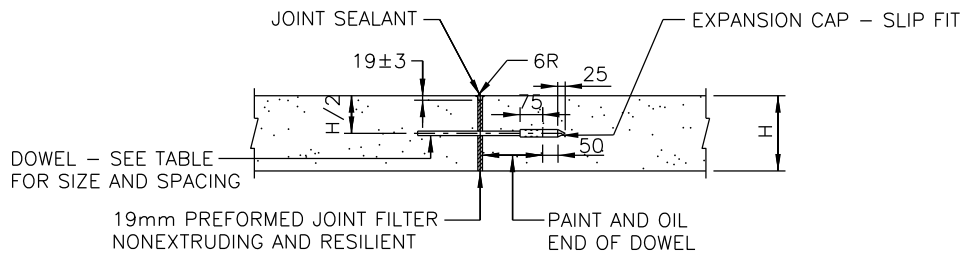
DWG NO.

TITLE

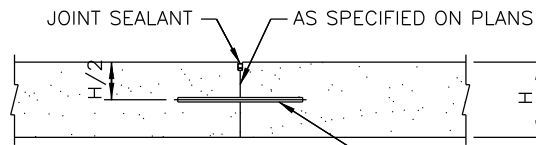
THICKENED EDGE EXPANSION & CONSTRUCTION JOINT
- PCC

321373

C - 105

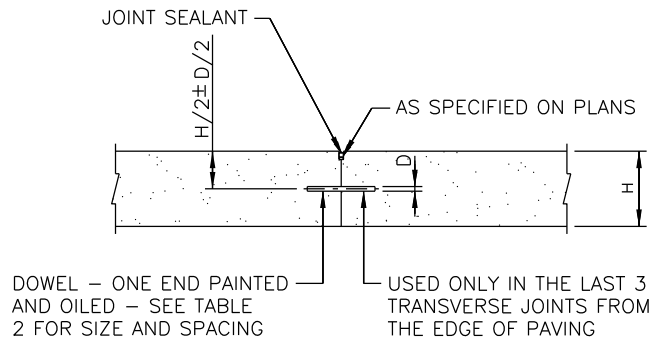


(A) TRANSVERSE EXPANSION JOINT



NOTE:
STEEL TIE BARS 750mm LONG AND SPACED 750mm ON CENTERS USED ONLY IN JOINT ADJACENT TO FREE EDGES

(B) LONGITUDINAL CONTRACTION JOINT



(C) TRANSVERSE CONTRACTION JOINT

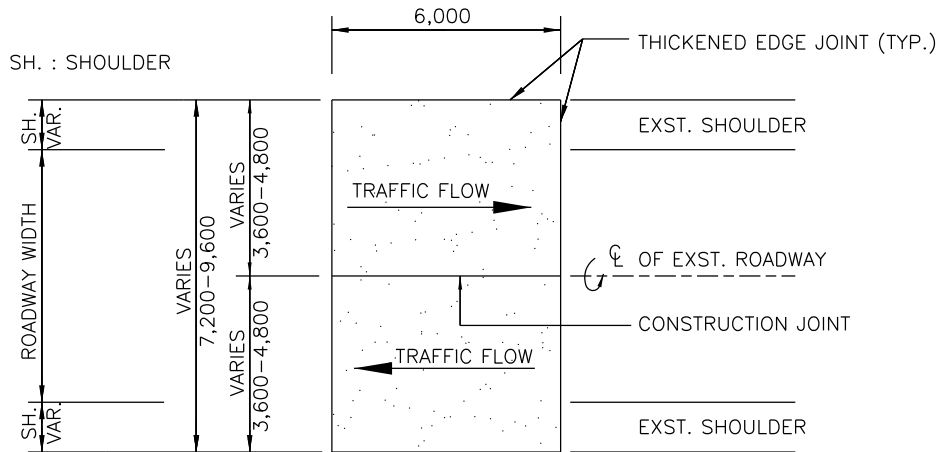
SIZE AND SPACING FOR DOWELS, m m

PAVEMENT THICKNESS	DOWEL DIAMETER	MINIMUM DOWEL LENGTH	DOWEL SPACING	DOWEL SIZE (mm) AND TYPE
LESS THAN 200	19	400	300	19 ROUND BAR
200 TO 275	25	400	300	25 ROUND BAR
300 TO 375	31	500	375	32 ROUND BAR
	32	500	375	1 EXTRA - STRENGTH PIPE

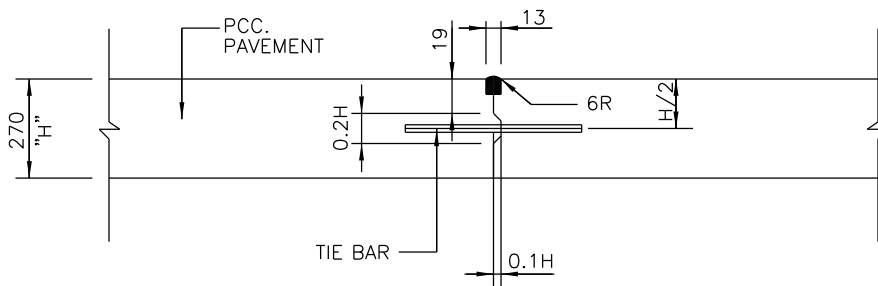
NOTE: ONE END OF DOWEL SHALL BE PAINTED & OILED

EXPANSION & CONSTRUCTION JOINT OF PCC. ROAD
NOT TO SCALE

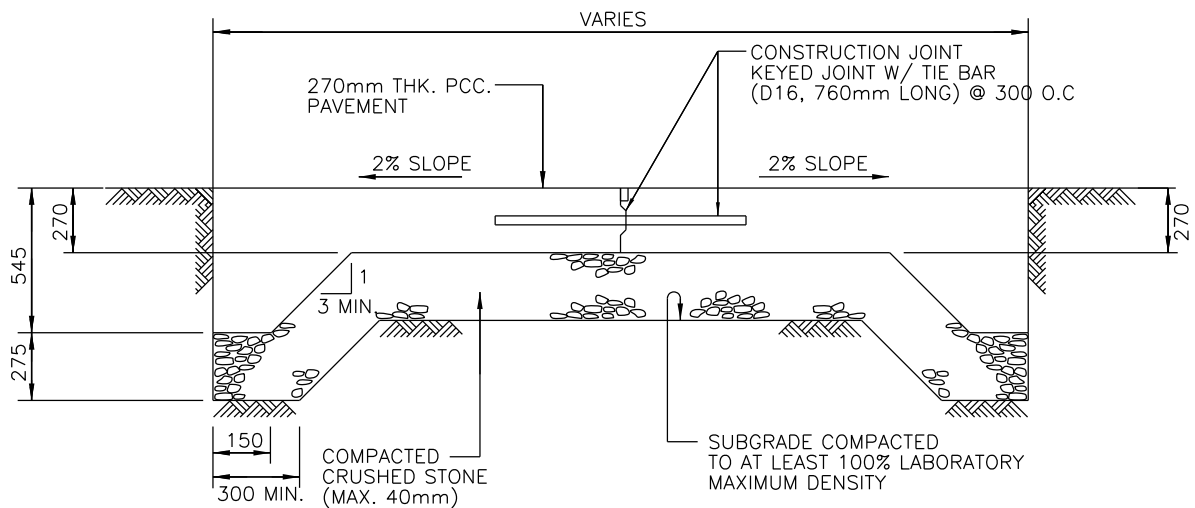
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	EXPANSION & CONSTRUCTION JOINT - PCC ROAD	321373	C - 106



PLAN



KEYED, LONGITUDINAL



SECTION

TYP. PCC PAVEMENT DETAIL FOR TANK ROAD
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

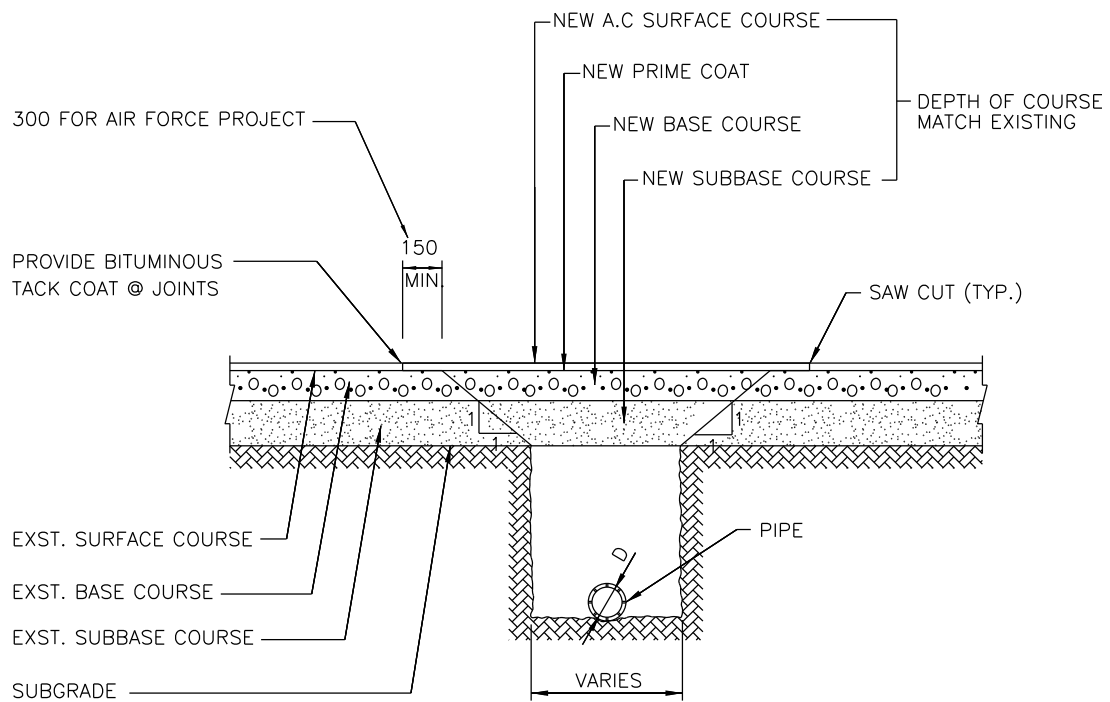
DWG NO.

TITLE

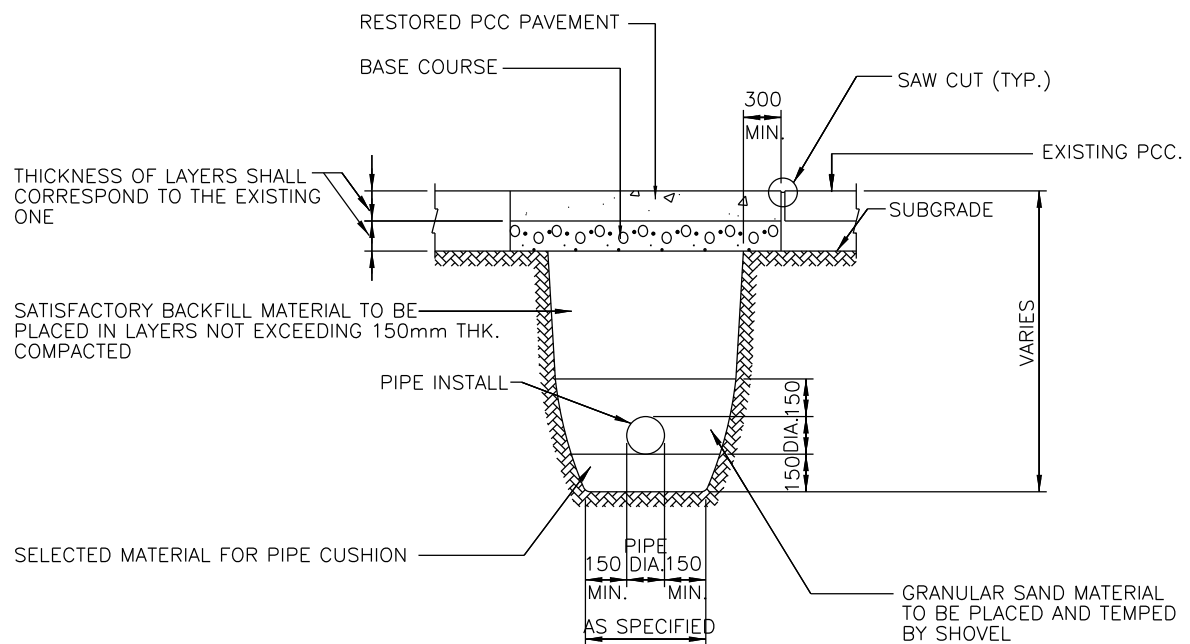
PCC CONCRETE TANK TURNING PAD

321311

C - 107



TYPICAL A.C. PAVEMENT TRENCH RESTORATION DETAIL
NOT TO SCALE



NOTE:
SHORING FOR EXCAVATION SHALL BE PROVIDED
DEPTH OVER 1.5m IAW EM 385-1-1.

TYPICAL PCC PAVEMENT TRENCH RESTORATION DETAIL
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

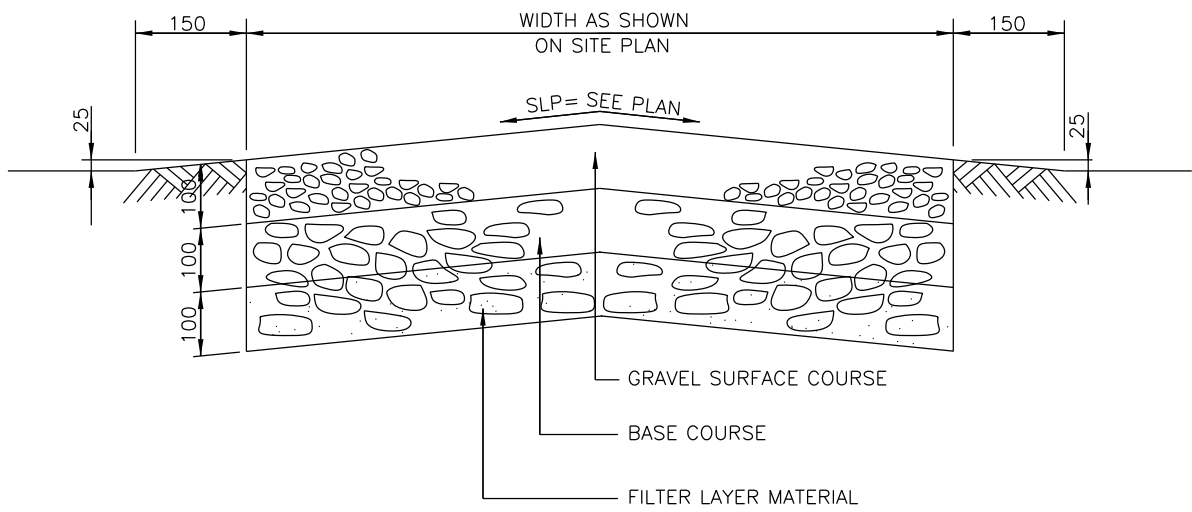
AC PAVEMENT & PCC PAVEMENT TRENCH RESTORATION

OMA SPEC

N/A

DWG NO.

C - 108

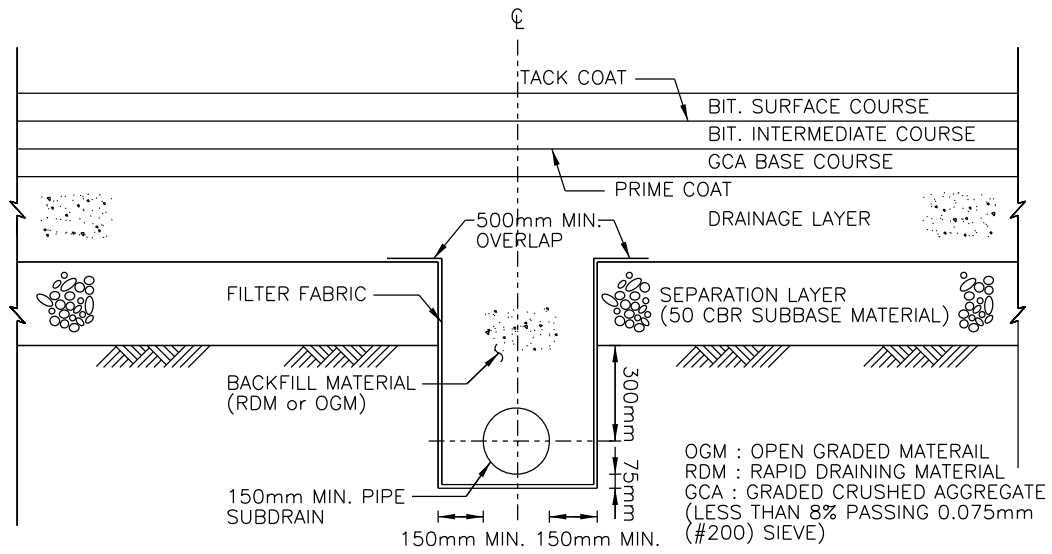


NOTE :
GRAVEL OR CRUSHED STONE COMPACTED.
SEE SPECIFICATIONS FOR MATERIAL.

GRAVEL ROAD
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	GRAVEL SURFACE ROAD	321124	C - 109

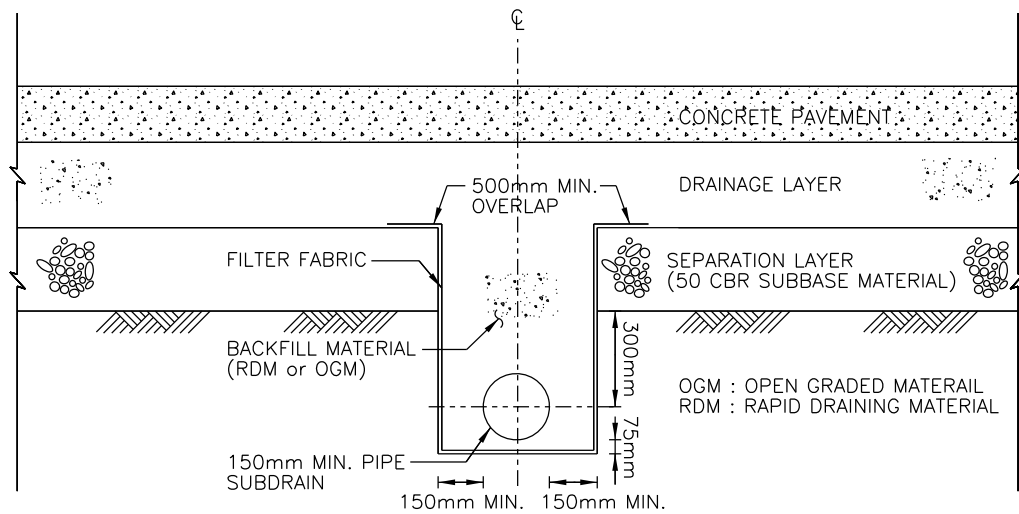
REV DATE: NOV 2015



NOTE : 1) IN FROST AREAS THE SIDES OF THE TRENCH SHALL BE SLOPED NOT STEEPER THAN 1 ON 10

TYPICAL FLEXIBLE PAVEMENT INTERIOR SUBDRAIN DETAIL

NOT TO SCALE

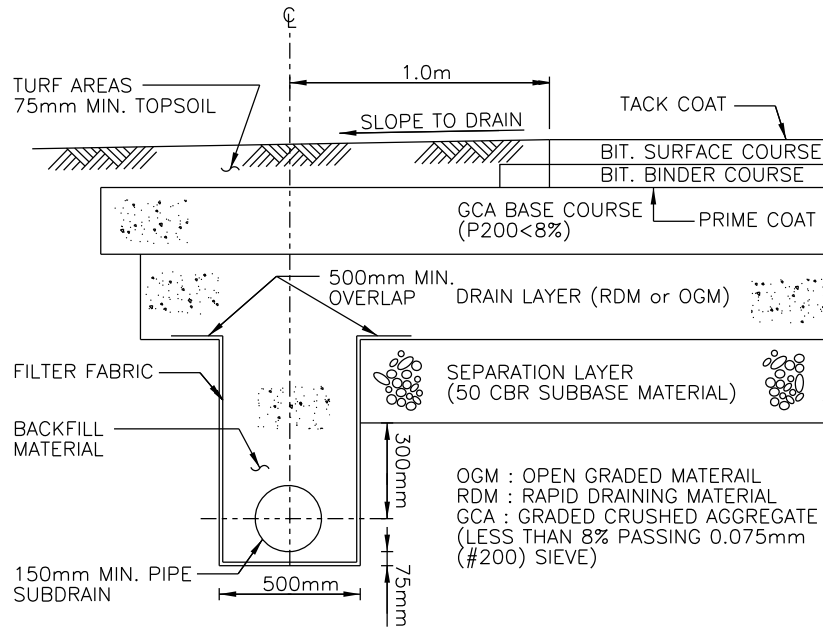


NOTE : 1) IN FROST AREAS THE SIDES OF THE TRENCH SHALL BE SLOPED NOT MORE THAN 1 VERTICAL ON 10 HORIZONTAL FOR THE DEPTH OF FROST PENETRATION
2) FOR CONCRETE PAVEMENTS LOCATE THE PIPE IN VICINITY OF A JOINT

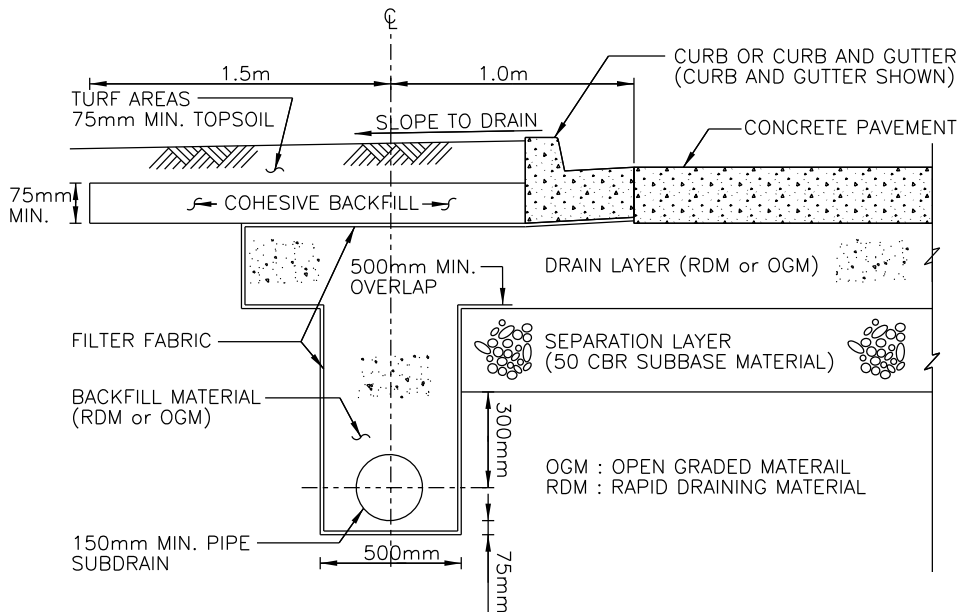
TYPICAL CONCRETE PAVEMENT INTERIOR SUBDRAIN DETAIL

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL PAVEMENT INTERIOR SUBDRAIN DETAIL	334616	C - 110



TYPICAL EDGE SUBDRAIN DETAIL FOR FLEXIBLE PAVEMENT
NOT TO SCALE



TYPICAL EDGE SUBDRAIN DETAIL FOR CONCRETE PAVEMENT
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

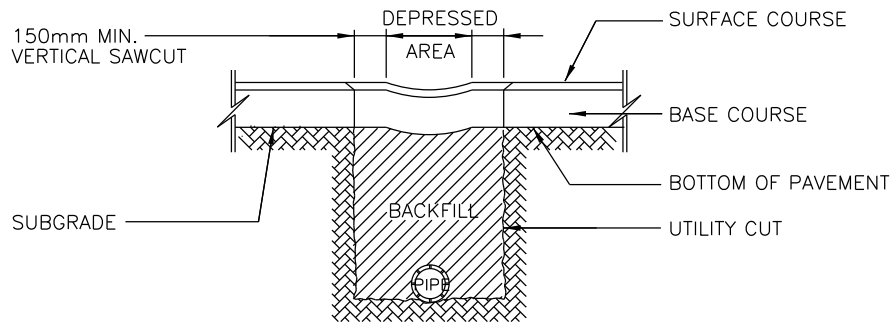
DWG NO.

TITLE

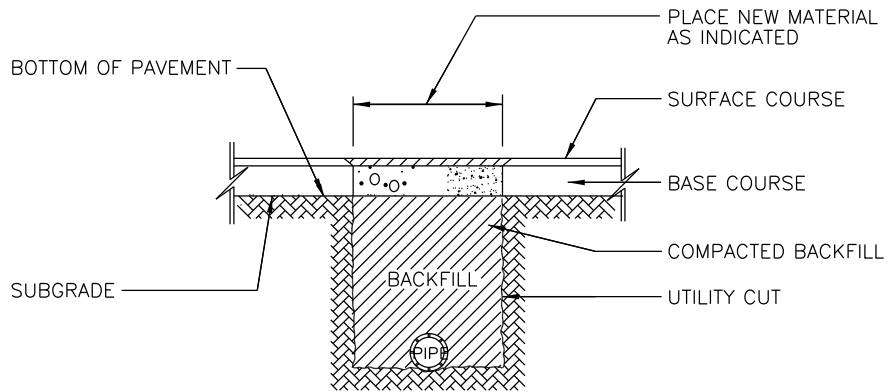
TYPICAL EDGE SUBDRAIN DETAIL FOR PAVEMENT

334616

C - 111

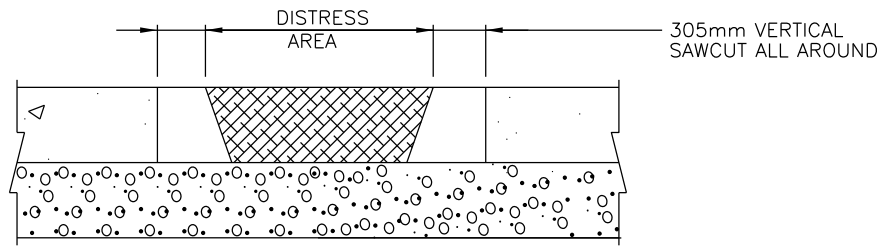


REPAIR RANGE TO UTILITY CUT
NOT TO SCALE

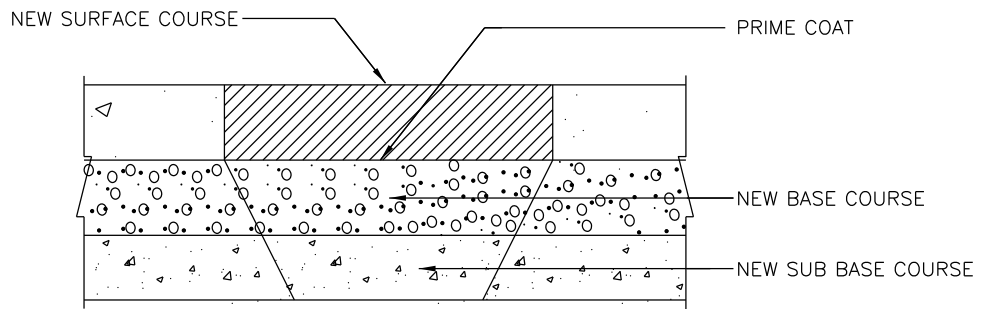


REPAIR TO UTILITY CUT
NOT TO SCALE

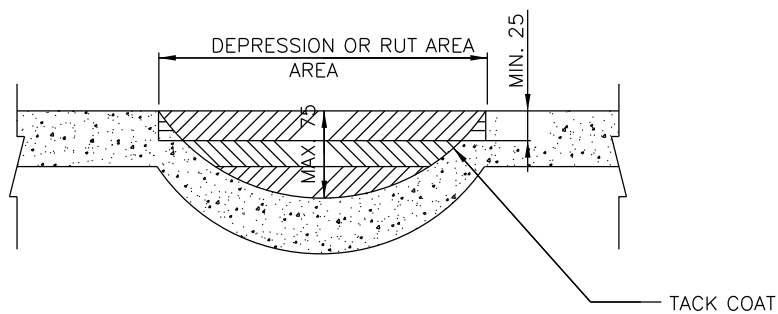
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	REPAIR TO UTILITY CUT	321216	C - 201



REPAIR RANGE
NOT TO SCALE



FULL - DEPTH REPAIR
NOT TO SCALE



FILLING DEPRESSION AND RUTS
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

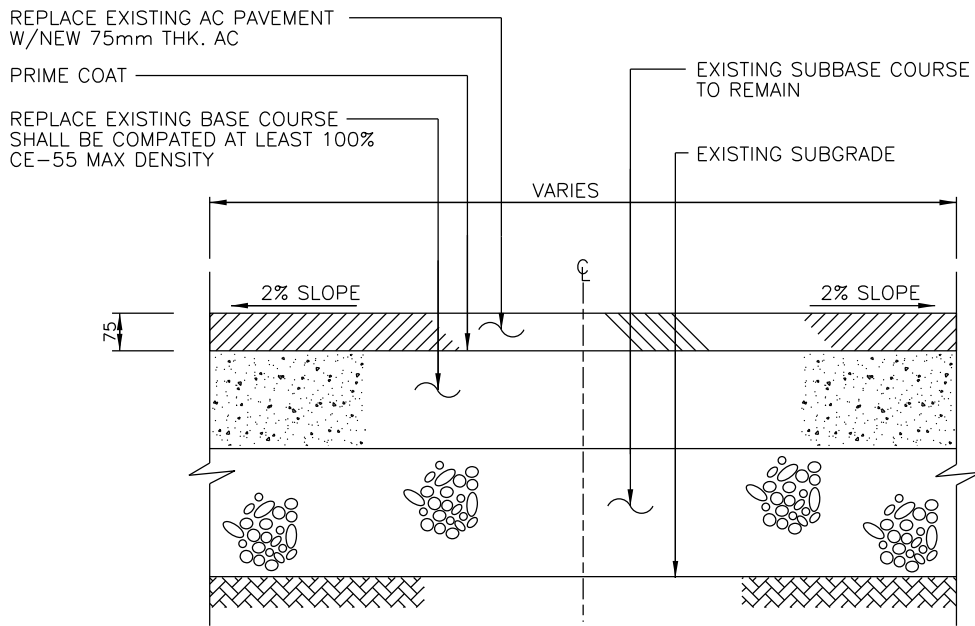
DWG NO.

TITLE

REPAIR AC PAVEMENT

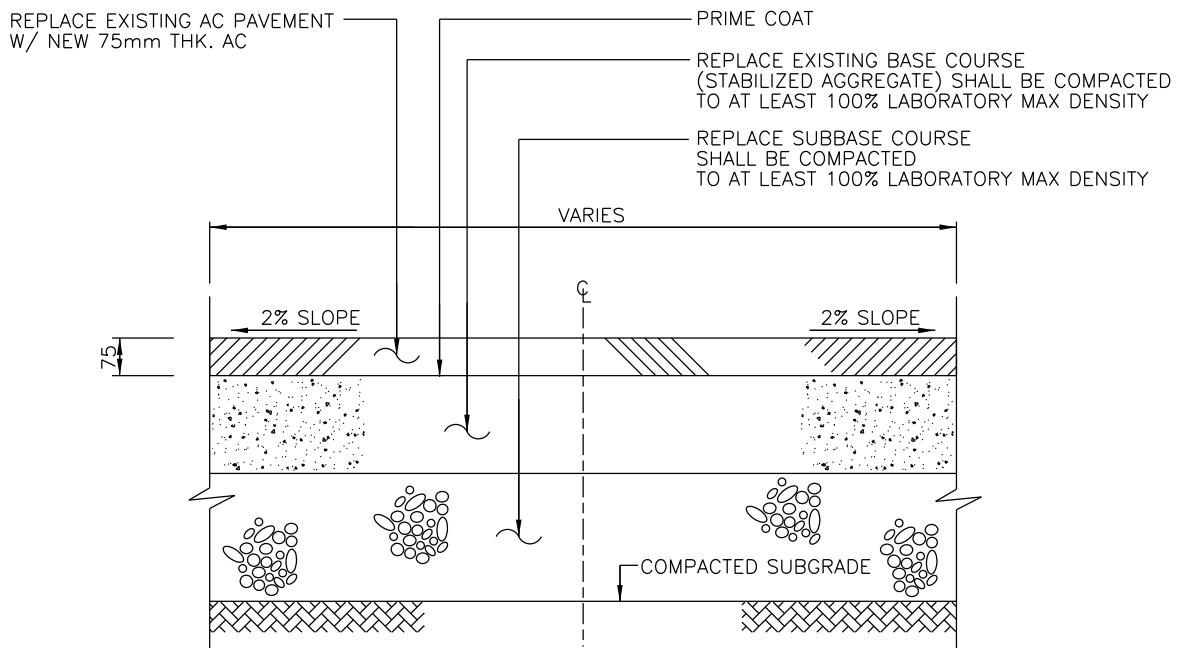
321216

C - 202



SECTION

REPLACE AC. W/BASE COURSE
NOT TO SCALE



SECTION

REPLACE AC. W/BASE COURSE AND SUBBASE COURSE
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

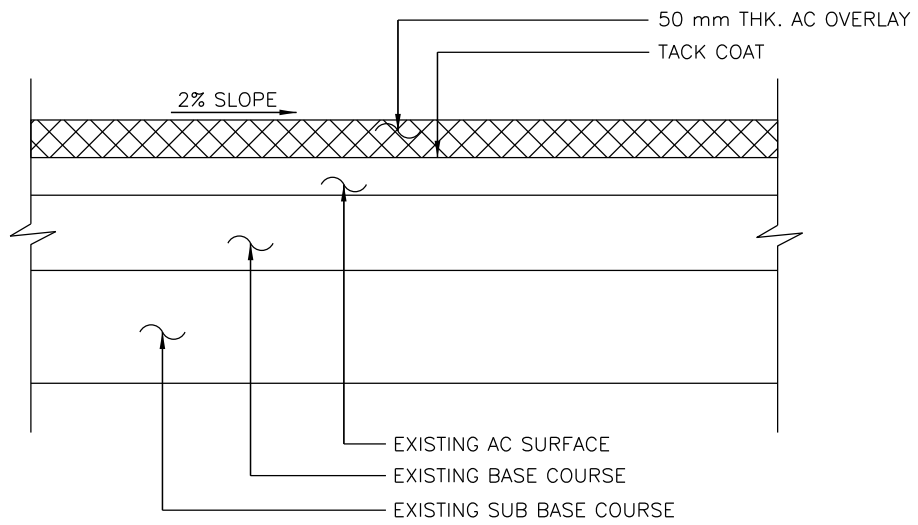
DWG NO.

TITLE

REPLACE AC PAVEMENT W/ BASE & SUBBASE COURSE

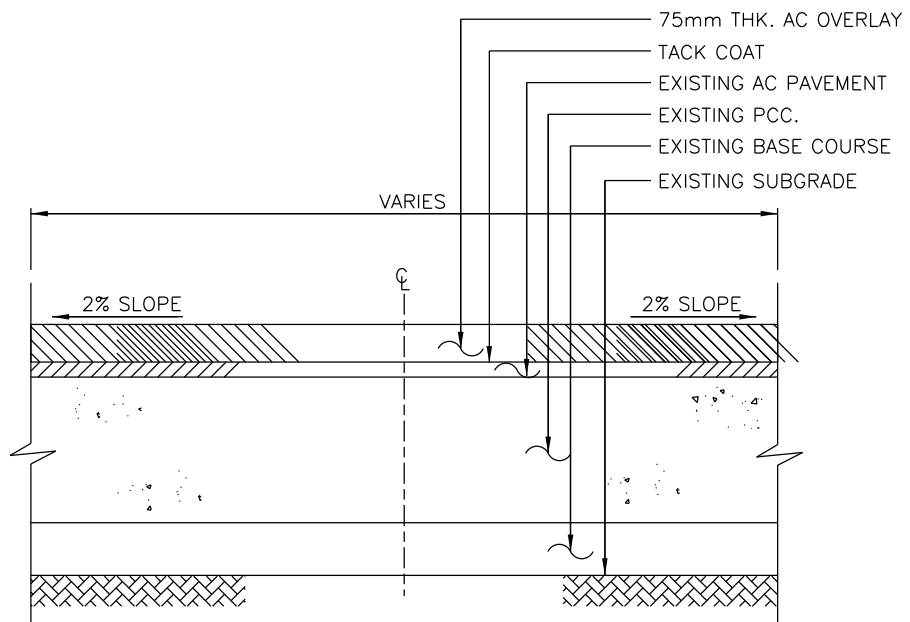
321216

C - 203



SECTION

50 mm THK. AC. OVERLAY
NOT TO SCALE

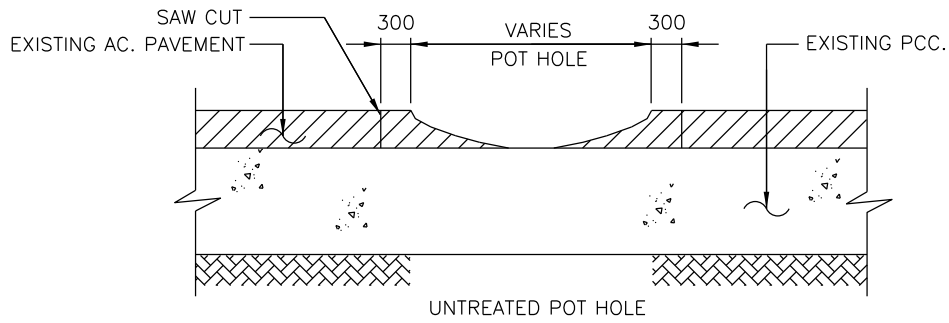


SECTION

75mm THK. AC. OVERLAY
NOT TO SCALE

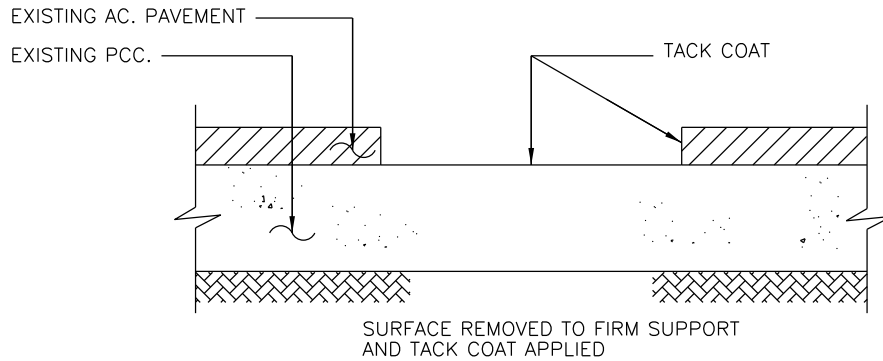
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	AC OVERLAY ON AC PAVEMENT	321216	C - 204

REV DATE: NOV 2015



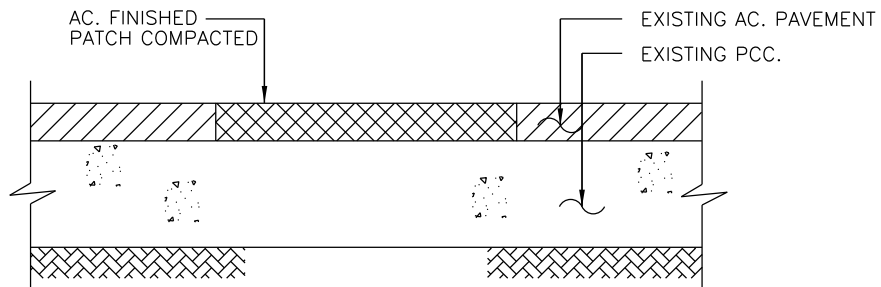
UNTREATED POT HOLE

SECTION



SURFACE REMOVED TO FIRM SUPPORT AND TACK COAT APPLIED

SECTION

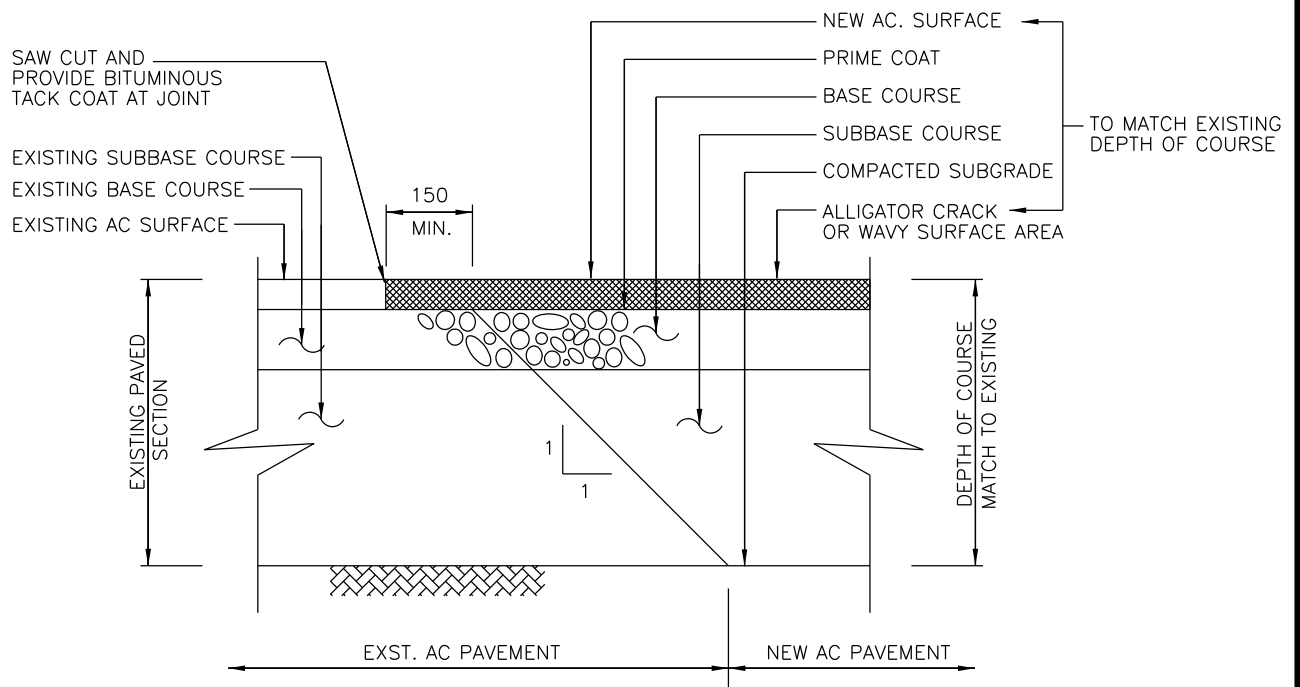


FULL-DEPTH ASPHALT MIXTURE PLACED W/BEING COMPACTED AND FINISHED PATCH COMPACTED TO LEVEL OF SURROUNDING

SECTION

REPAIR AC POT HOLE
NOT TO SCALE

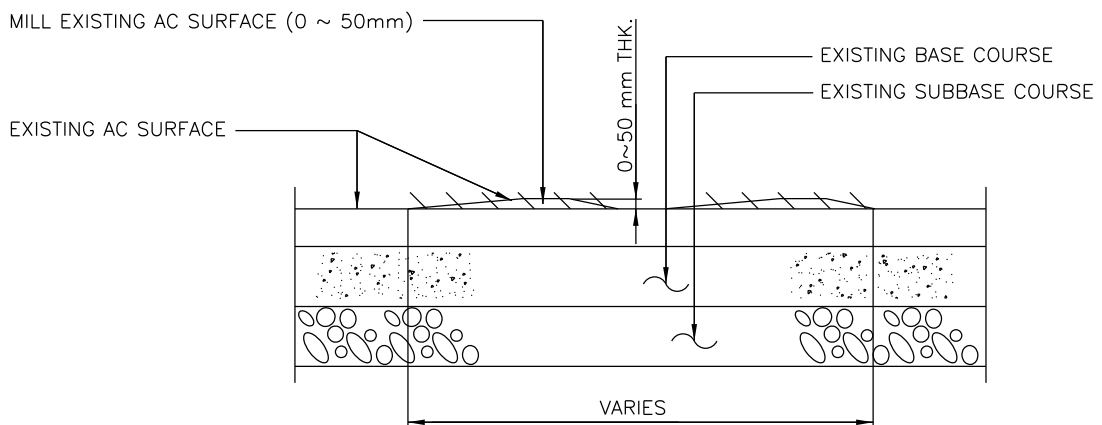
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	REPAIR AC PAVEMENT - POT HOLE	321216	C - 205



NOTE ; BASE COURSE AND SUBBASE COURSE FOR NEW AC PAVEMENT SHALL BE COMPACTED AT LEAST 100% LABORATORY MAX. DENSITY.

AC. PAVEMENT JOINT DETAIL

NOT TO SCALE



MILL EXISTING AC SURFACE

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

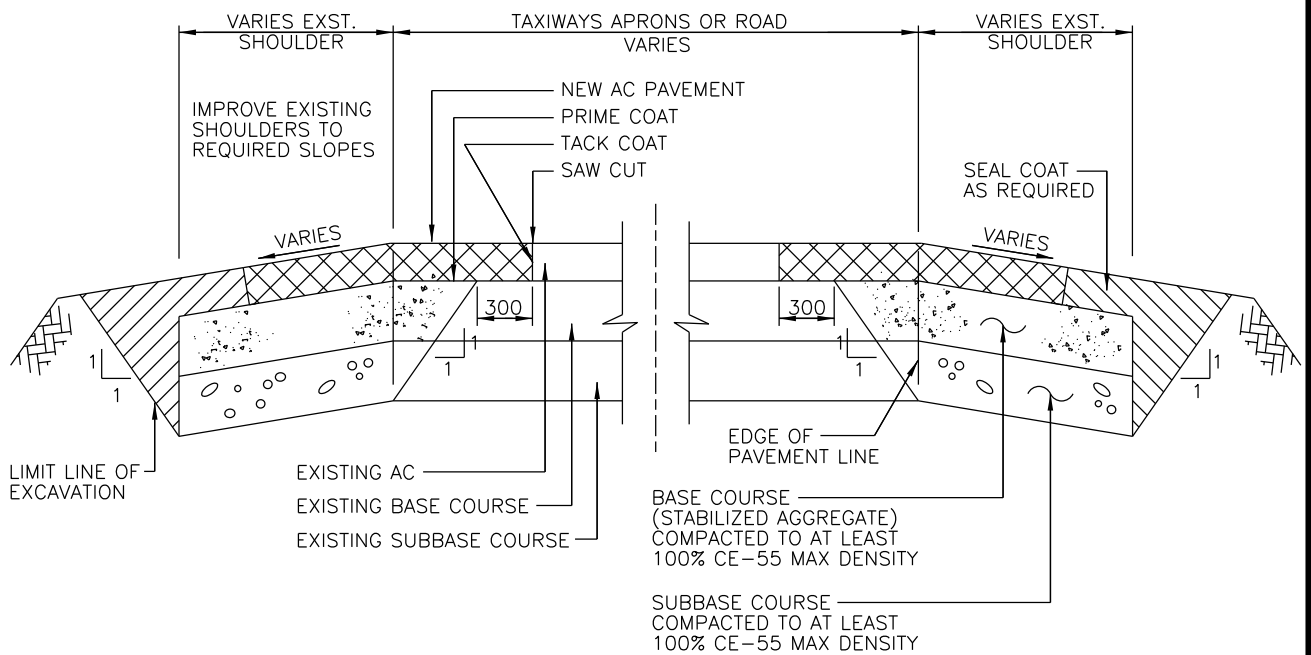
CONNECT & MILLING AC PAVEMENT

OMA SPEC

321216

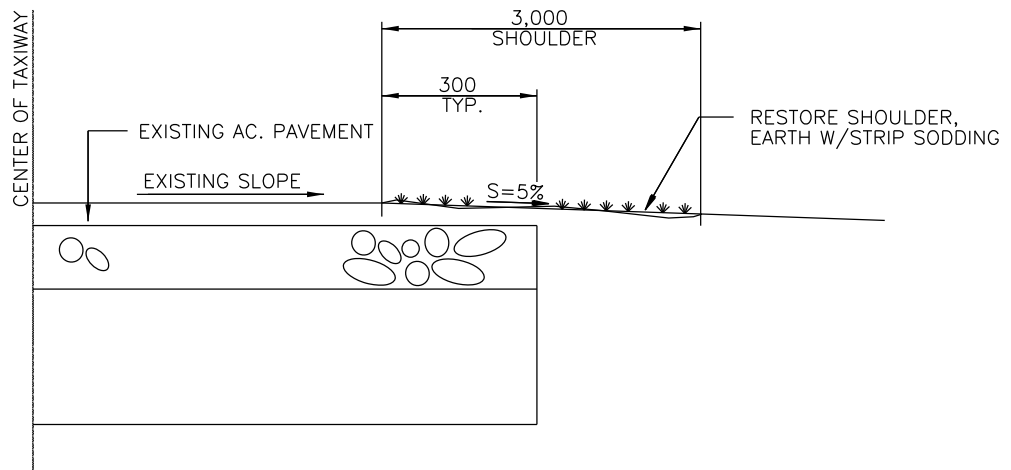
DWG NO.

C - 206



REPAIR/REPLACE SHOULDER W/BASE COURSE

NOT TO SCALE



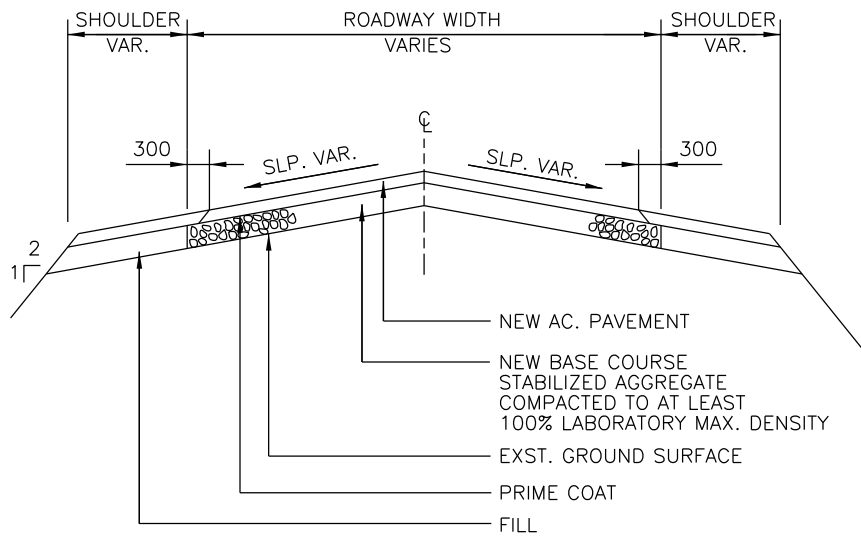
TYPICAL SECTION FOR SHOULDER

RESTORE SHOULDER

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	REPAIR / REPLACE AC SHOULDER	321216	C - 207

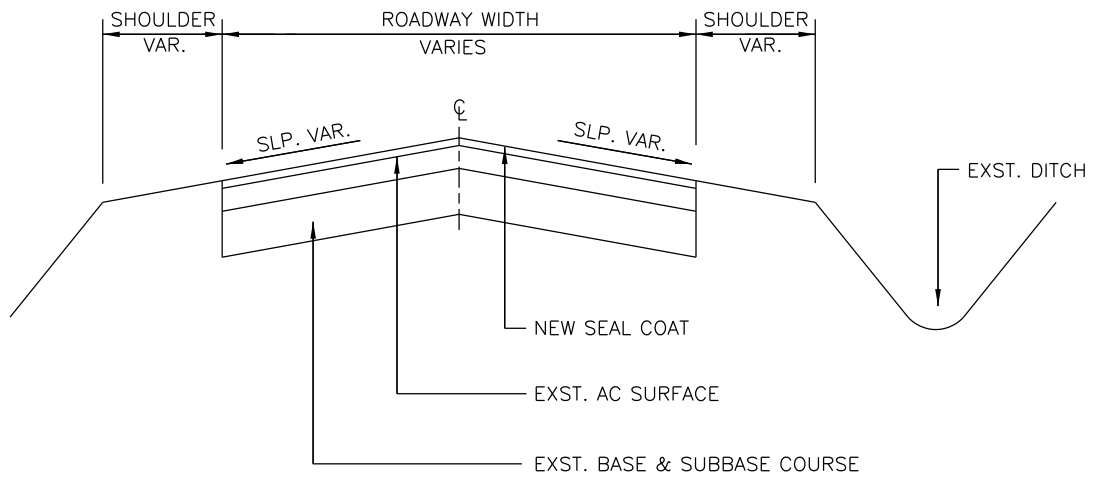
REV DATE: NOV 2015



SECTION

AC PAVEMENT W/BASE COURSE

NOT TO SCALE



SECTION

SEAL COAT

NOT TO SCALE



IMCOM

O&MA STANDARD DETAILS, KOREA

TITLE

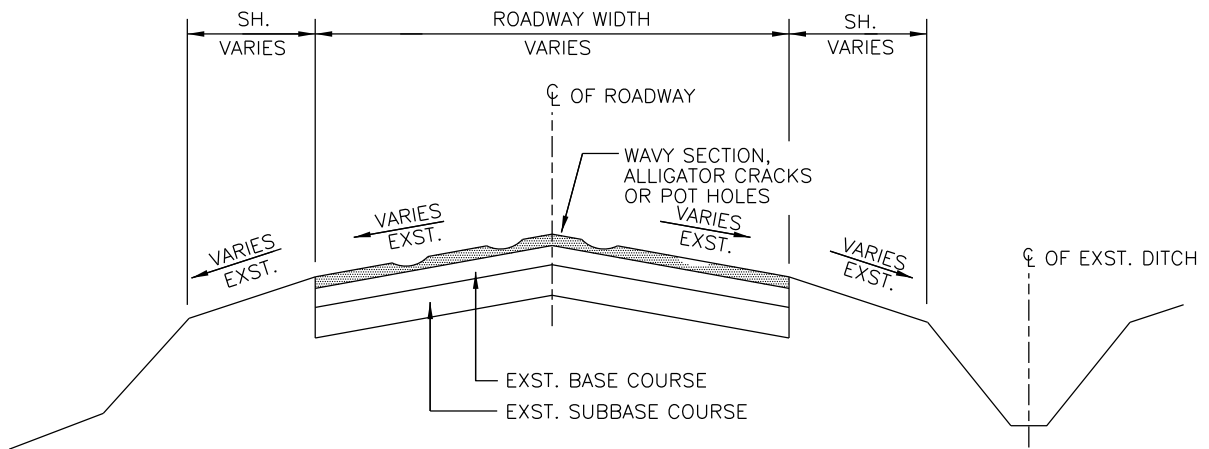
AC SECTION W/ BASE COURSE & SEAL COAT

OMA SPEC

321216

DWG NO.

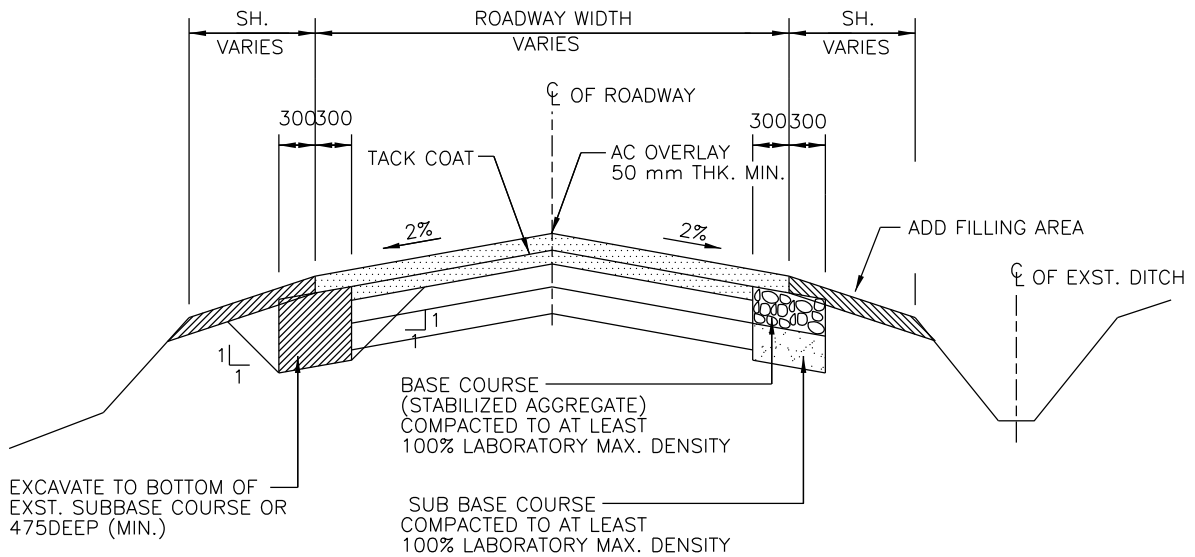
C - 208



NOTE ; REPAIR DITCHES WHEN CALLED FOR SEPARATELY

EXST. ROADWAY SECTION

NOT TO SCALE



AC. OVERLAY WORK – SECTION

NOT TO SCALE



IMCOM

O&MA STANDARD DETAILS, KOREA

TITLE

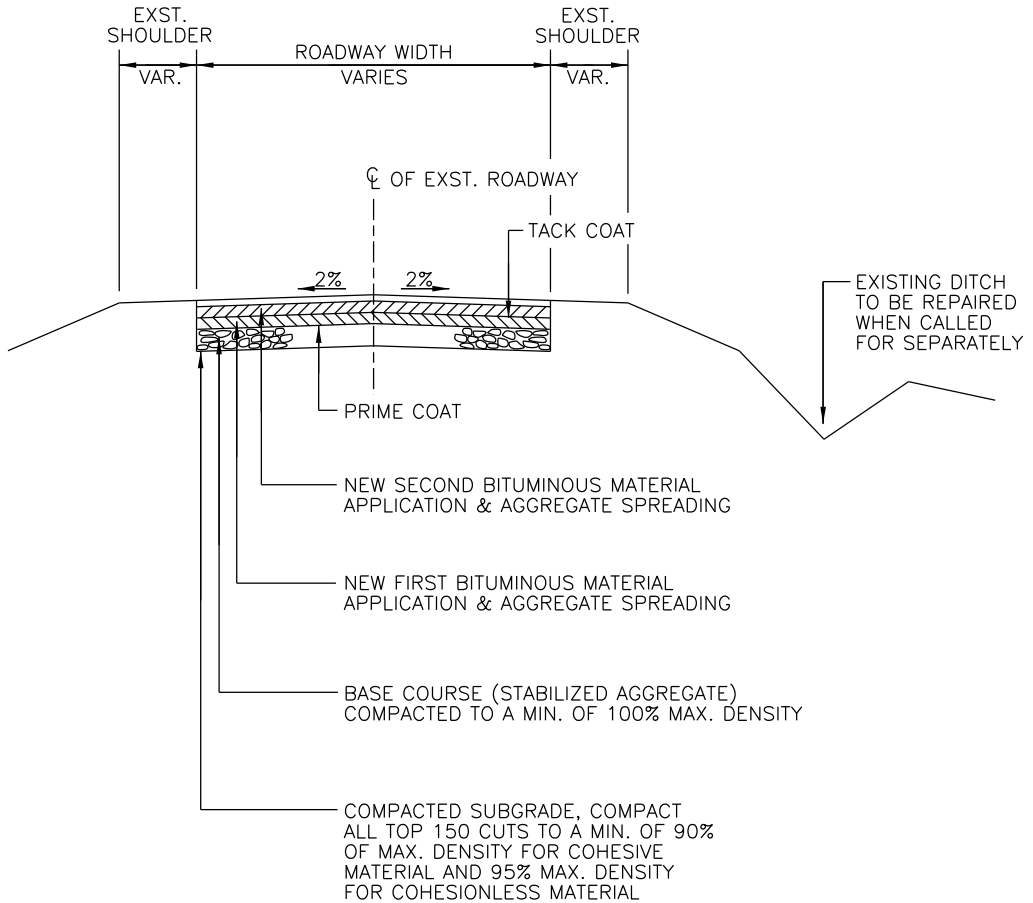
AC OVERLAY ON EXST. AC PAVEMENT

OMA SPEC

321216

DWG NO.

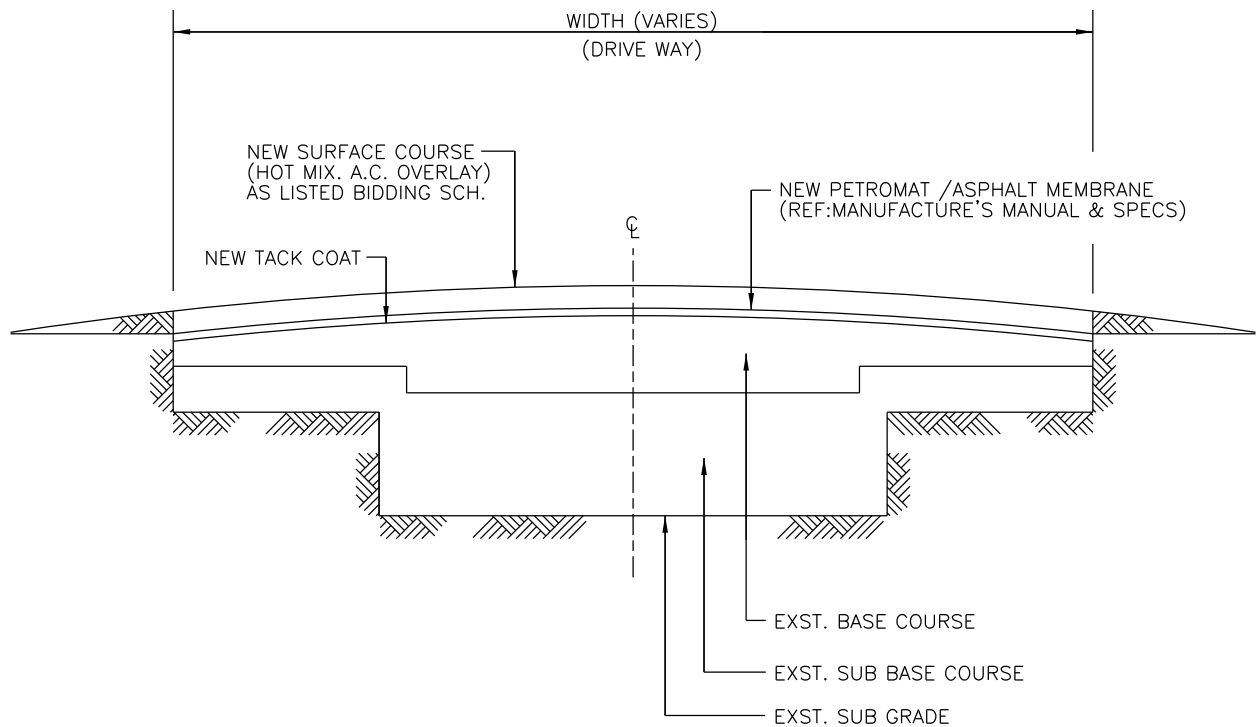
C - 209



TYP. SECTION

DOUBLE BITUMINOUS SURFACE TREATMENT (PVMNT)
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	AC DOUBLE SURFACE TREATMENT	321216	C - 210



REF:
MATERIAL SPECIFICATION (PETROMAT / ASPHALT MEMBRANE)

FABRIC

ITEM	TYPICAL	MINIMUM
WEIGHT. kg/SQ.m	0.15	0.13
TENSILE STRENGTH. kgf(1)	52.1	40.8
ELONGATION-AT-BREAK. %(1)	65	55
MULLEIN BURST STRENGTH. kgf/cm ²	16.5	14.1
ASPHALT RETENTION GALS/SQ m(2)		0.024
COLOR	BLACK BLEND	
WIDTH. mm(3)	75 & 150	
LENGTH/ROOL. m	110	

- (1) ASTM METHOD D - 1632 - 64
- (2) PHILLIPS PROCEDURE
- (3) OTHER WIDTH. AVAILABLE ON ORDER

FABRIC

ITEM	QUALITY	SPEC.
ASPHALT CEMENT	PENETRATION OR VISCOSITY GRADE	AASHTO M-20 AASHTO M-226
CATIONIC ASPHALT EMULSION	CRS - 2 CRS - 1h	AASHTO M-208
ANIONIC ASPHALT EMULSION	RS - 2 BS - 1	AASHTO M-140

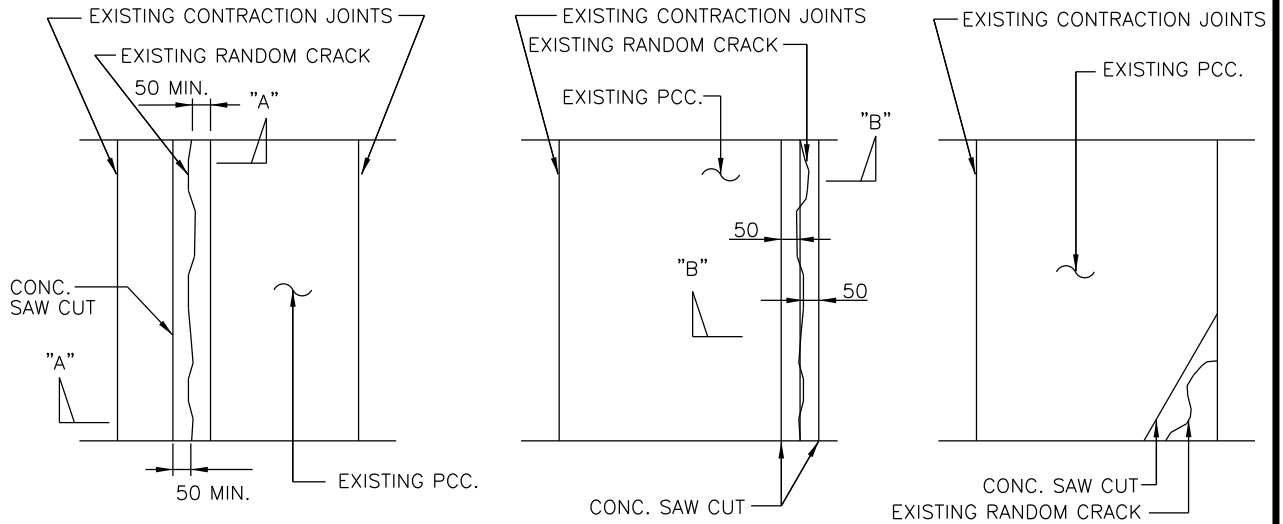
AGGREGATE:
SMALL QUANTITIES OF HOT MIX. SPREAD OVER THE FABRIC WILL SERVE THIS PURPOSE

NOTE:
THE PETROMAT PROTECTIVE MEMBRANE SYSTEM CONSISTS OF PETROMAT NONWOVEN POLYPROPYLENE FABRIC SEALED WITH ASPHALT CEMENT

MANUFACTURE : PHILLIPS FIBER CORP. USA
OR AS APPROVED EQUAL

TYP. SECTION OF LAY DOWN FABRIC
NOT TO SCALE

	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	LAYDOWN FABRIC - AC	321216	C - 211

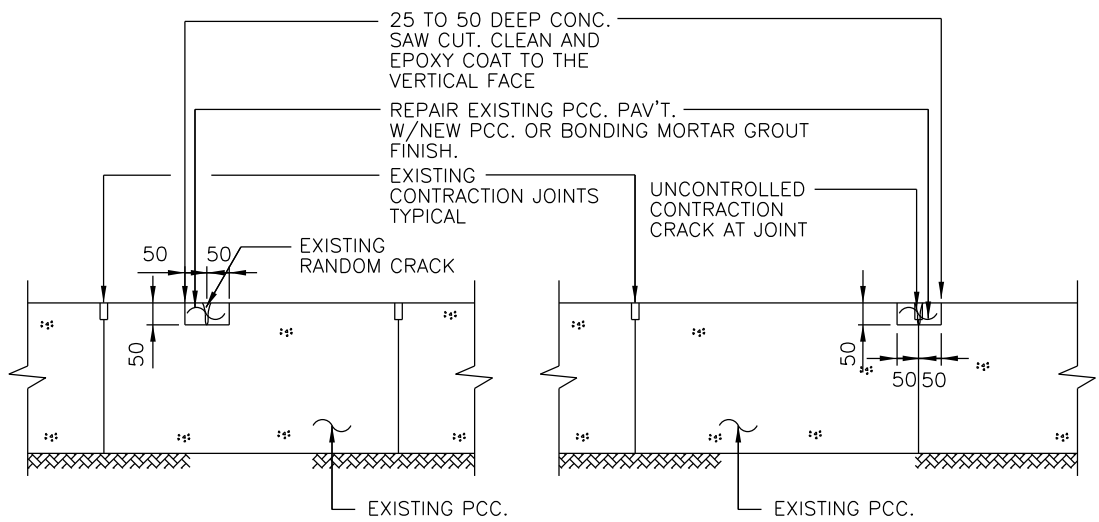


RANDOM CRACK
WITHIN SLAB

UNCONTROLLED CONTRACTION
CRACK AT JOINT

CORNER BREAK

P L A N



REMOVE PCC CONC. SECTION "A"

REMOVE PCC CONC. SECTION "B"

REPAIR PCC PAVEMENT CRACKS
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

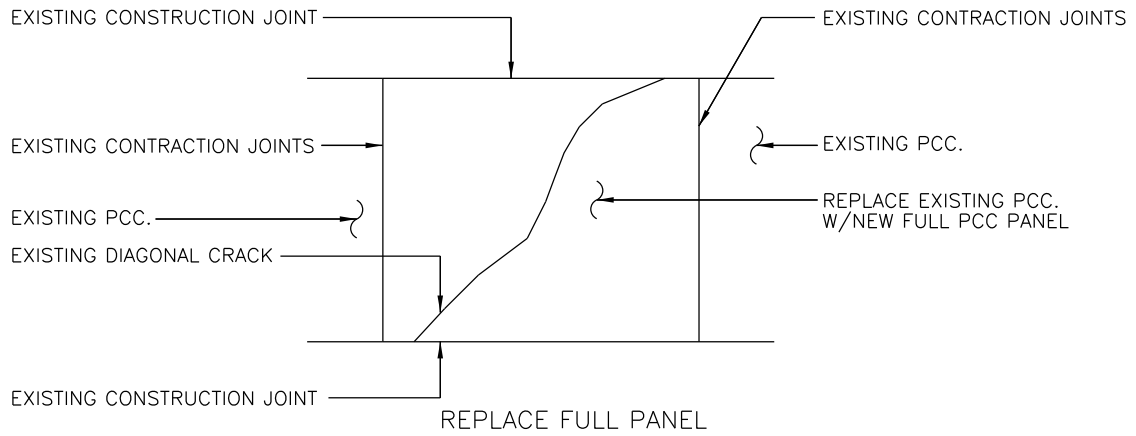
REPAIR PCC PAVEMENT CRACKS - 1

OMA SPEC

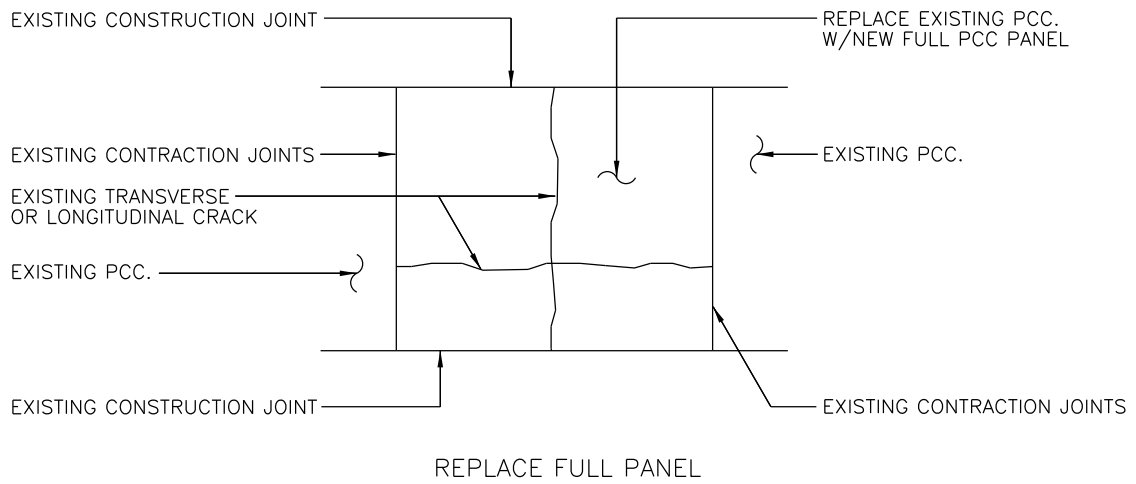
321313.06

DWG NO.

C - 212



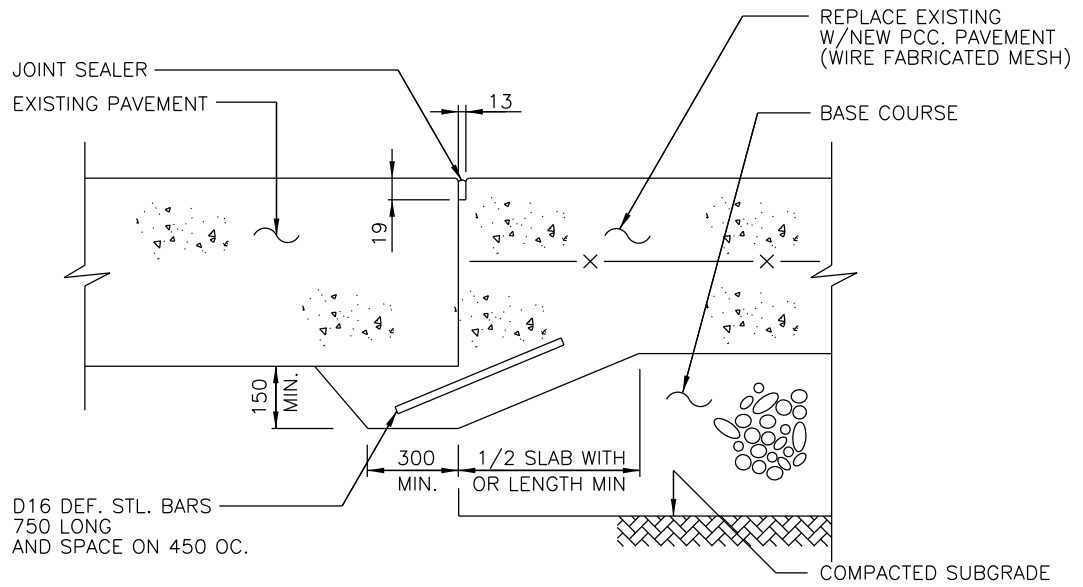
TYPE FOR DIAGONAL CRACK
NOT TO SCALE



TYPE FOR TRANSVERSE OR LONGITUDINAL CRACK
NOT TO SCALE

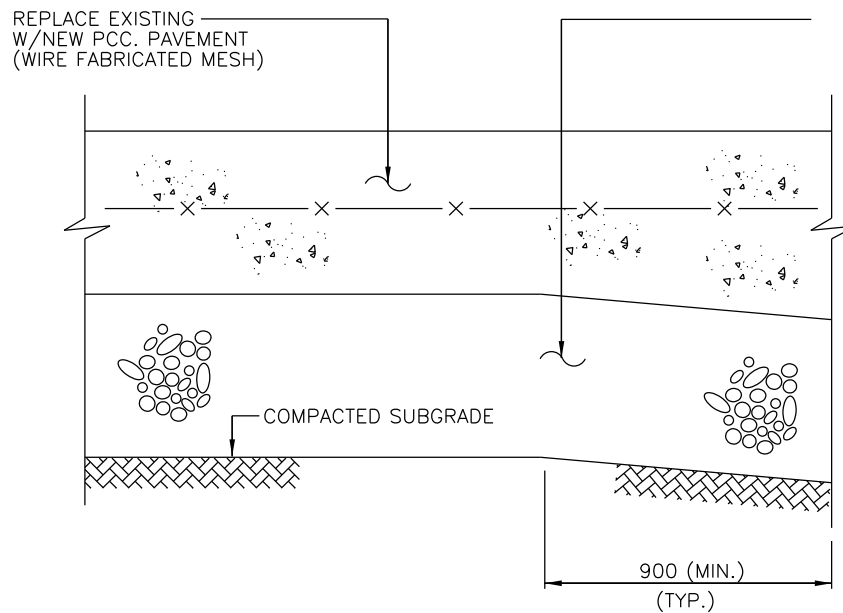
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	REPAIR PCC PAVEMENT CRACKS - 2	321313.06	C - 213

REV DATE: NOV 2015



SPECIAL JOINT BETWEEN
NEW AND EXISTING PAVEMENT
TRANSVERSE OR LONGITUDINAL

CONSTRUCTION JOINTS



THICKENED EDGE JOINT

REPLACE EXISTING PCC. PAVEMENTED CRACKS
W/NEW PCC PAVEMENT

NOT TO SCALE



IMCOM

O&MA STANDARD DETAILS, KOREA

TITLE

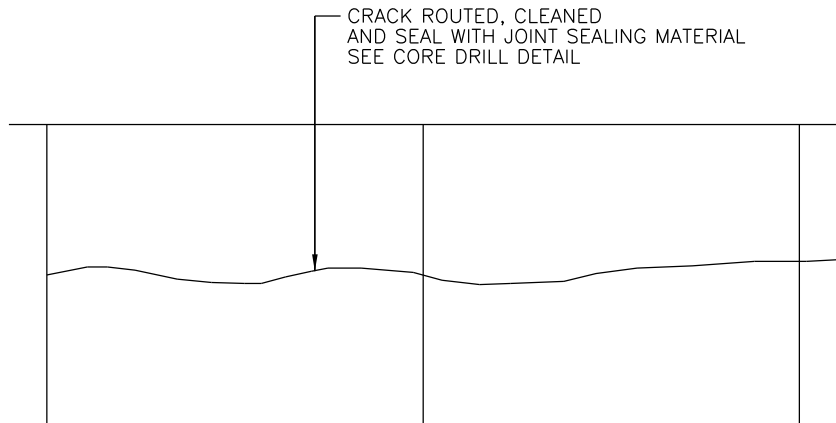
REPAIR PCC PAVEMENT CRACKS - 3

OMA SPEC

321313.06

DWG NO.

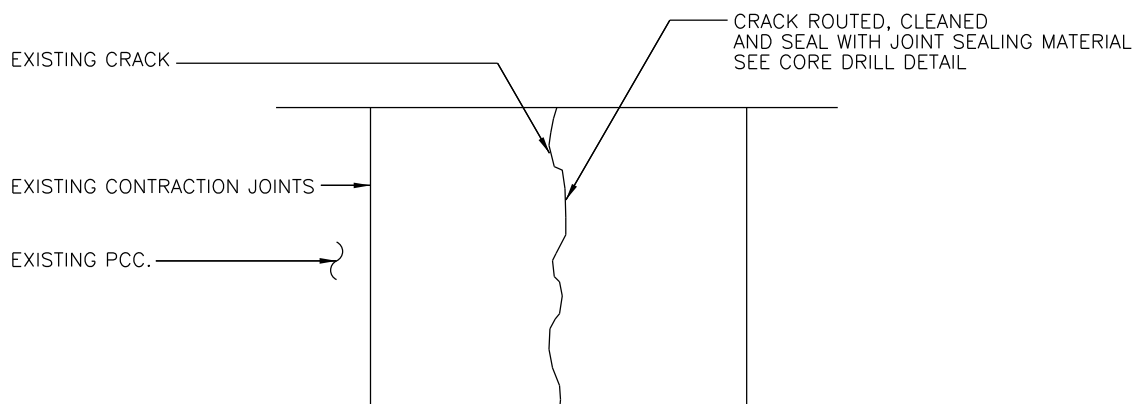
C - 214



PLAN

TYPE FOR LONGITUDINAL CRACKING

NOT TO SCALE



THIS CONDITION 31 TO 38Ø DRILLED AND INJECTING GROUT

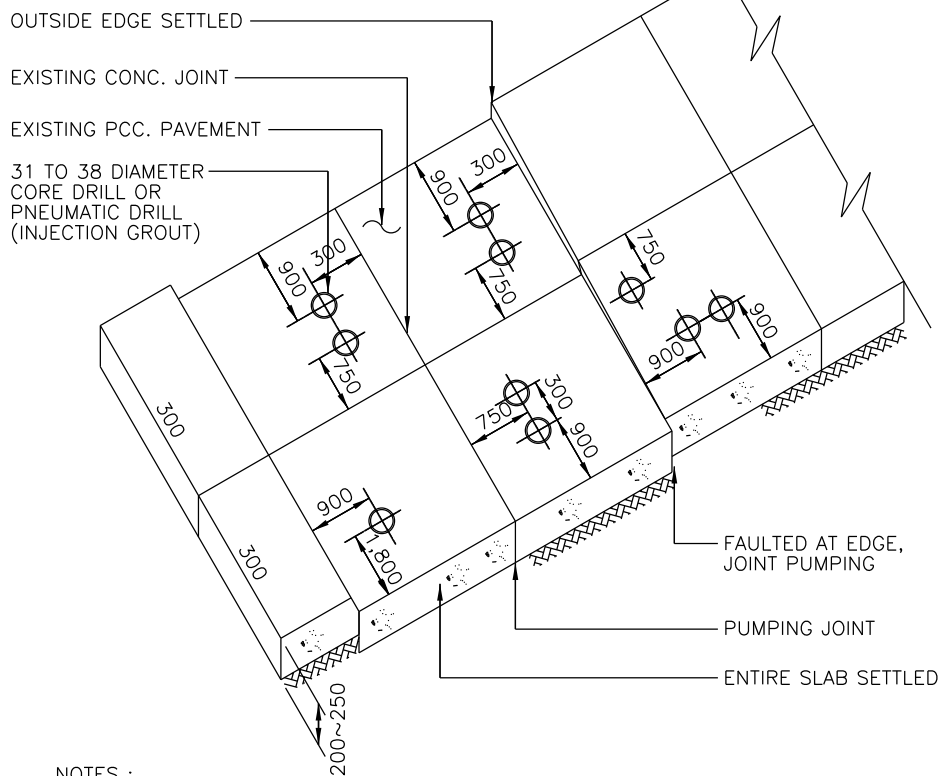
PLAN

TYPE FOR TRANSVERSE CRACKS

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	LONGITUDINAL / TRANSVERSE PCC CRACKS	321313.06	C - 215

REV DATE: NOV 2015



NOTES :

- 1, HOLES SIZE : 31 TO 38 DIAMETER WILL BE DRILLED BY A CORE DRILL OR A PNEUMATIC DRILL
- 2, LOCATION OF INJECTION HOLES FOR INJECTION THE GROUT
- 3, AS A GENERAL RULE, HOLES WILL BE NOT BE PLACED CLOSER THAN 450mm FROM EDGES OR JOINT
- 4, THEY WILL BE LOCATED ON NOT MORE THAN 1,8m CENTERS SO THAT APPROXIMATELY 1.8 TO 2.7 SQUARE METER OF SLAB IS RAISED BY PUMPING ANYONE HOLE
- 5, ADDITIONAL HOLES MAY BE REQUIRED IF THE SLABS ARE CRACKED

EQUIPMENT :

1. CONCRETE OR PUGMILL-TYPE MORTAR MIXER,
2. HYDRAULIC JACKING UNIT OF THE POSITIVE-DISPLACEMENT TYPE CAPABLE OF INSTANTANEOUS CONTROL OF GROUT PRESSURE,
3. CONCRETE BUGGY TO TRANSPORT GROUT FROM THE MIXER TO THE JACKING UNIT.
4. WATER TANK WITH A MINIMUM CAPACITY OF 250 GALLONS,
5. DUMP TRUCK FOR HAULING GROUTING MATERIALS AND FOR TOWING THE PORTABLE MIXER.
6. PORTABLE AIR COMPRESSOR,
7. PNEUMATIC HAMMER OR DRILLING RIG WITH SIX POINT 31 TO 38 mm DIAMETER PNEUMATIC DRILL BITS,
8. TEN TAPERED WOODEN PLUGS,

TYPE FOR CORE DRILL OR PNEUMATIC DRILL

CORE DRILL FOR PCC PAVEMENT CRACK REPAIR

NOT TO SCALE



IMCOM

O&MA STANDARD DETAILS, KOREA

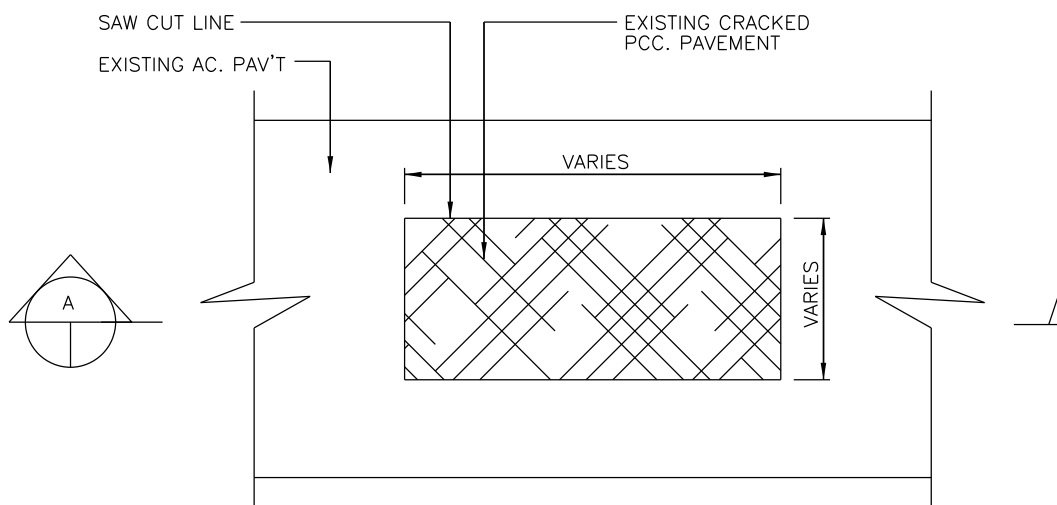
TITLE DRILL FOR PCC PAVEMENT

OMA SPEC

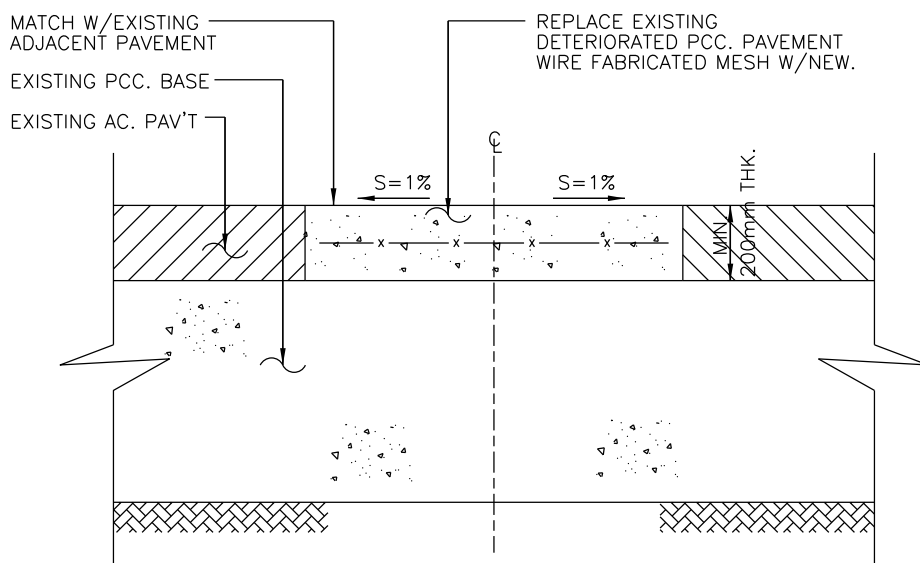
321313.06

DWG NO.

C - 216



PLAN



SECTION "A"

REPLACE PCC PAD IN AC PAVEMENT
NOT TO SCALE



IMCOM

O&MA STANDARD DETAILS, KOREA

TITLE

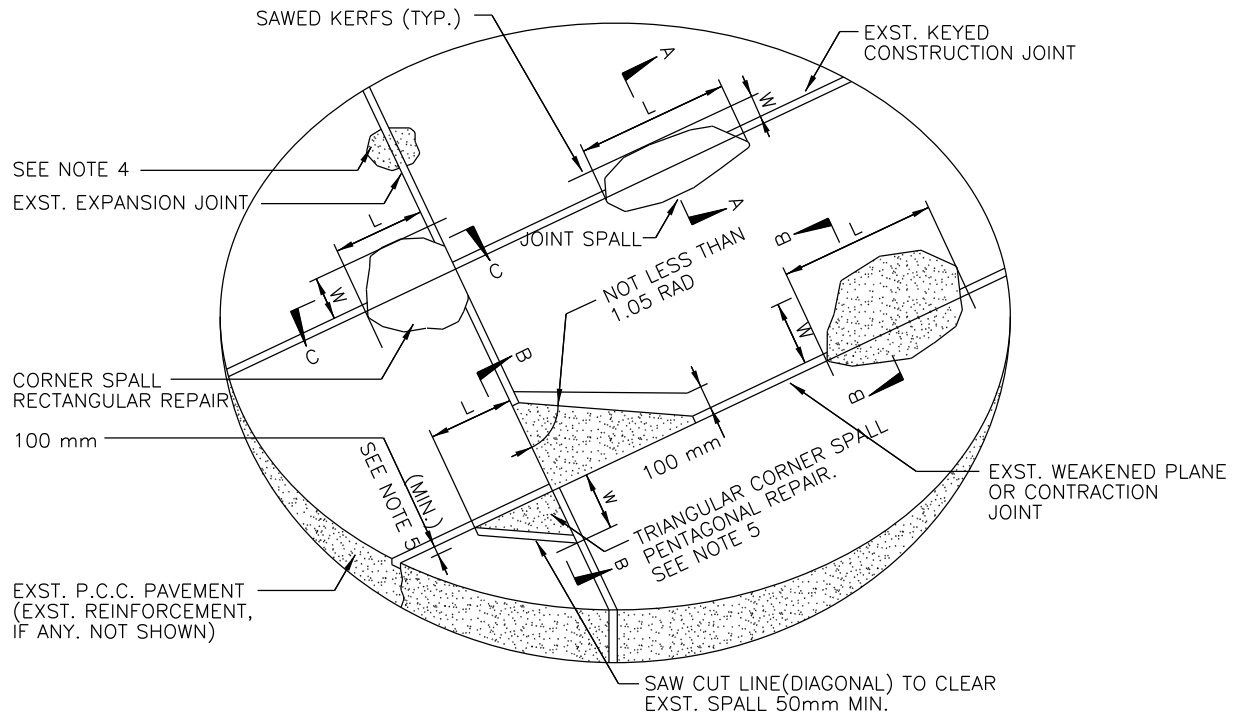
REPLACE PCC PAD IN AC PAVEMENT

OMA SPEC

321313.06

DWG NO.

C - 217



PLAN OF SPALL REPAIRS

NOT TO SCALE

GENERAL NOTES

1. APPROX. LOCATION, LENGTH(L) AND WIDTH(W) OF EACH SPALL REPAIR ARE SHOWN ON JOINT LAYOUT DRAWINGS. EXACT LOCATION AND DIMENSIONS SHALL BE DETERMINED AND MARKED IN THE FIELD AND APPROVED AS SPECIFIED.
2. SPALLS OCCUR IN MANY SIZES AND SHAPES. REPAIR DETAILS SHOWN ARE INTENDED TO REMOVE AND REPLACE ALL DETERIORATED CONCRETE, AND TO MAINTAIN THE SIZE OF THE SPALL REPAIR TO THE MINIMUM PRACTICAL TO AVOID UNNECESSARY REMOVAL OF SOUND CONCRETE.
3. JOINT SPALLS WITH ACTUAL CAVITY WIDTHS LESS THAN 50 MM SHALL BE REPAIRED BY CLEANING AND FILLING WITH JOINT SEALANT IN LIEU OF P. C. CONCRETE.
4. WHERE SPALL REPAIRS ARE REQUIRED ON EACH SIDE OF A JOINT OR CRACK, A NON-FLEXIBLE TYPE FILLER OR INSERT SHALL BE SECURED IN ALIGNMENT WITH THE JOINT OR CRACK AFTER BREAKING OUT THE SPALLED CONCRETE THE SPALL REPAIRS SHALL BE COMPLETED ON ONE SIDE AT A TIME AS SPECIFIED.
5. AT TRIANGULAR SPALLS WHERE BOTH THE LENGTH AND WIDTH OF THE REPAIR EXCEED 300 MM, THE REPAIR SHALL BE MADE PENTAGONAL TO AVOID FEATHER EDGED CORNERS AND TO MINIMIZE SIZE OF REPAIR AREA. SAWCUTS SHALL BE MADE TO INTERSECT JOINT LINES AT APPROX. 1.57 RAD (1.05 RAD) MIN. FOR NOT LESS THAN 100 MM AS SHOWN.
6. BREAK OUT AND REMOVE PAVEMENT AND UNSOUND CONCRETE WITHIN SAWCUTS TO A DEPTH NOT LESS THAN 50 MM CLEAN EXPOSED CAVITY SURFACES AS SPECIFIED.
7. DOWELS, TIE-BARS, OR CONTINUOUS REINF. EXPOSED DURING PREPARATION OF SPALLED AREAS SHALL BE REMOVED AS SPECIFIED FOR THE WIDTH OF JOINT BUT NOT LESS 13 MM.
8. WHERE PRACTICAL AND AT OPTION OF CONTRACTOR, A 13 MM MIN. WIDTH GROOVE MAY BE SAWED AT EXISTING JOINT LINES TO A POINT 13 MM MIN. BELOW THE PREPARED CAVITY SURFACE TO HOLD NEW FILLER INSERTS DURING CONCRETE PLACEMENT.
9. PROVIDE JOINT FILLER TO MAINTAIN EXISTING JOINTS AND WORKING CRACKS. WIDTH OF FILLER SHALL BE ABOUT EQUAL TO WIDTH OF EXISTING GAP AT THE JOINT OR CRACK BUT NOT LESS THAN DIMENSIONS SHOWN. DEPTH OF FILLER SHALL BE NOT LESS THAN DEPTH OF NEW PATCH MATERIAL. INSTALL FILLER NEATLY TO PREVENT NEW GROUT OR CONCRETE FROM BY-PASSING FILLER AND ENTERING THE JOINT SPACE.
10. AT OPTION OF CONTRACTOR, A NEAT BEAD OF CAULK MAY BE APPLIED AS INDICATED TO PREVENT GROUT OR CONCRETE FROM BY-PASSING FILLER AND ENTERING THE JOINT SPACE.
11. APPLY AND SCRUB SAND-CEMENT GROUT BONDING COURSE ON ALL EXPOSED CAVITY SURFACES EXCEPT FACES OF JOINTS AND WORKING DRACKS. FILL CAVITY FLUSH WITH PAVEMENT SURFACE WITH CONCRETE AS SPECIFIED.



IMCOM

O&MA STANDARD DETAILS, KOREA

TITLE

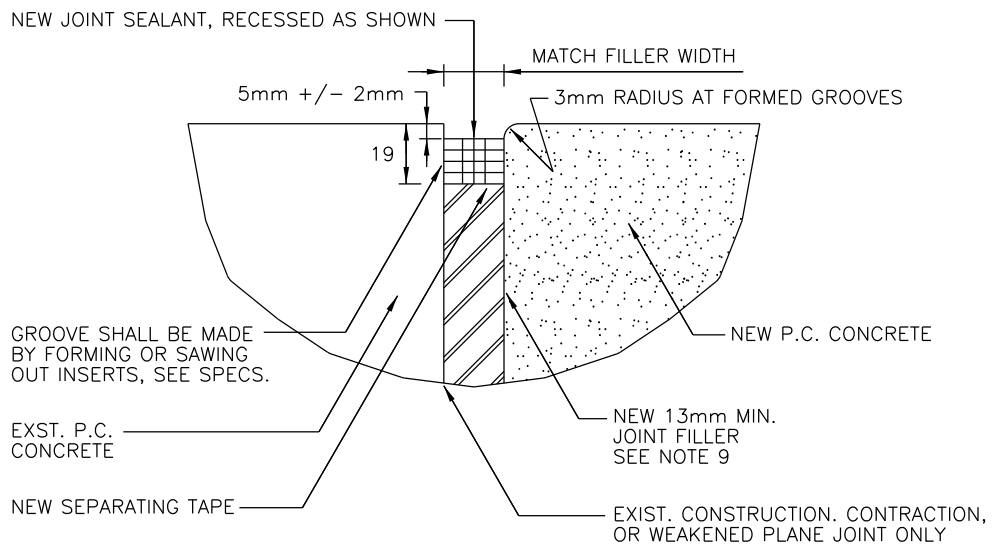
PLAN OF SPALL REPAIRS (PCC) - 1

OMA SPEC

321313.06

DWG NO.

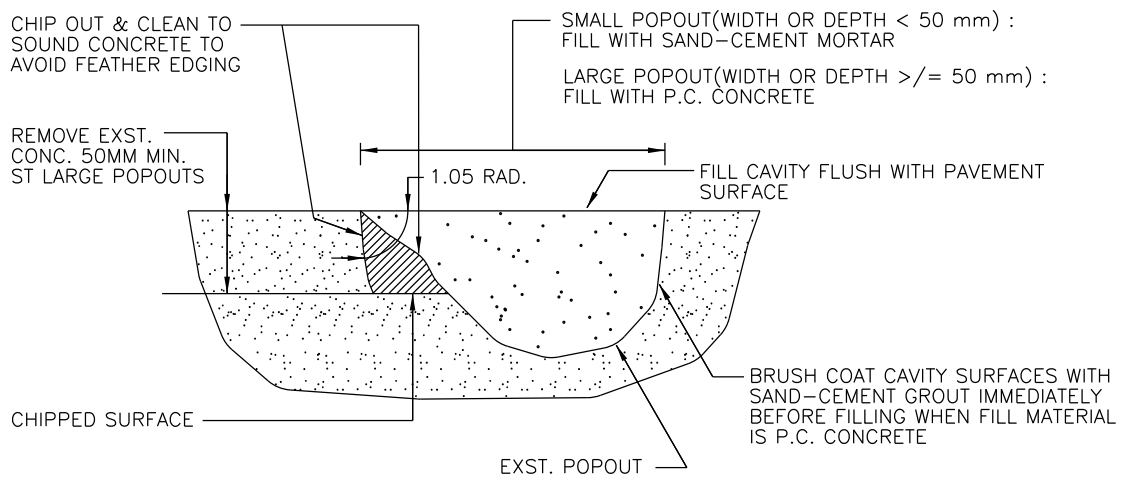
C - 218



DETAIL "A"

GROOVE FOR JOINT SEALANT AT SPALL REPAIR

NOT TO SCALE



TYPICAL SECTION : POPOUT REPAIR

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

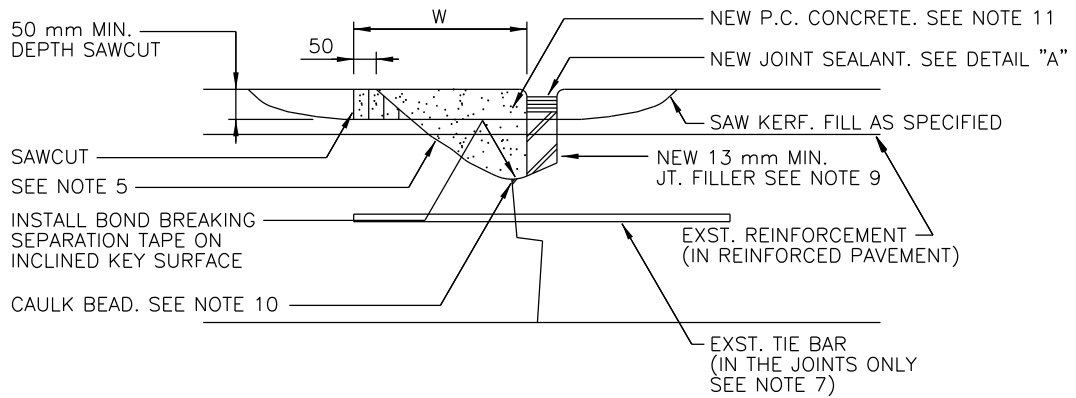
DWG NO.

TITLE

PLAN OF SPALL REPAIRS (PCC) - 2

321313.06

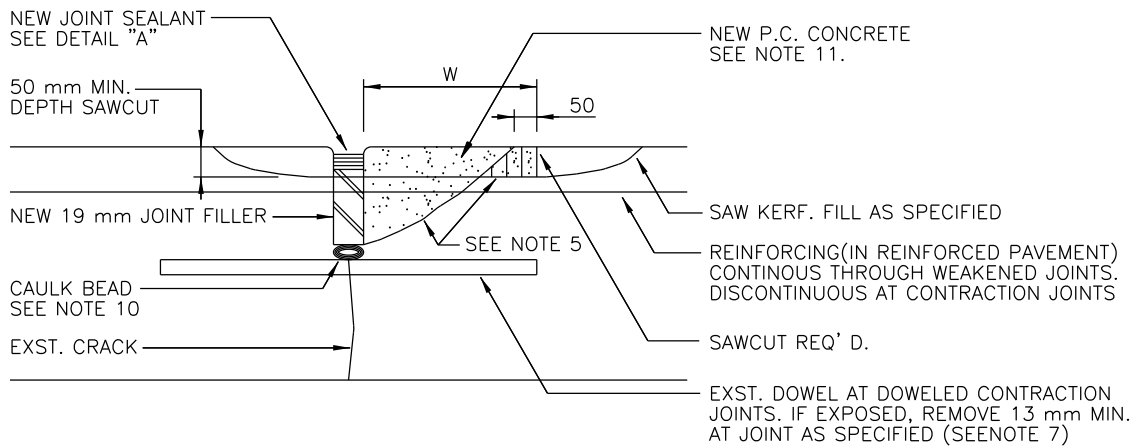
C - 219



SECTION A - A

SPALL AT KEYED CONTRACTION JOINT

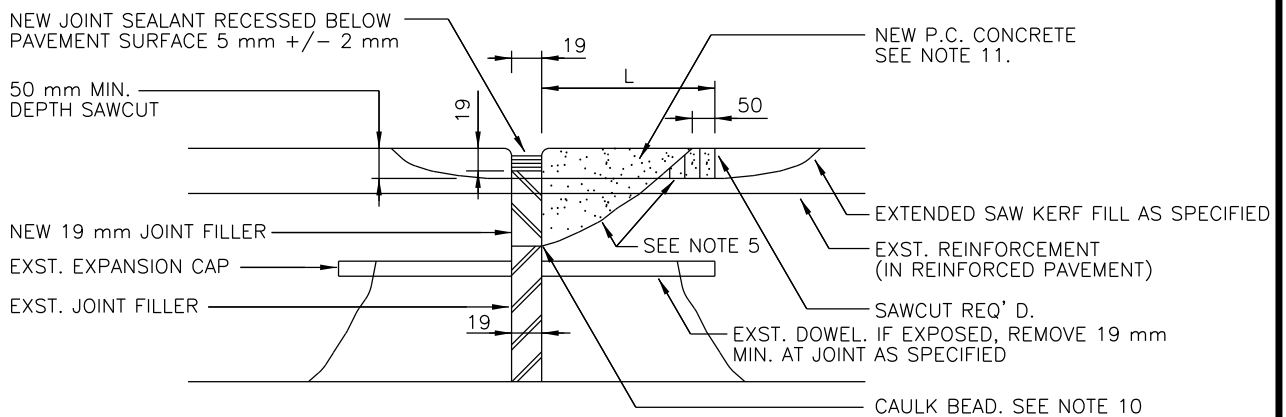
NOT TO SCALE



SECTION B - B

SPALL AT WEAKENED PLANE OR CONTRACTION JOINT

NOT TO SCALE



SECTION C - C

SPALL AT EXPANSION JOINT

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

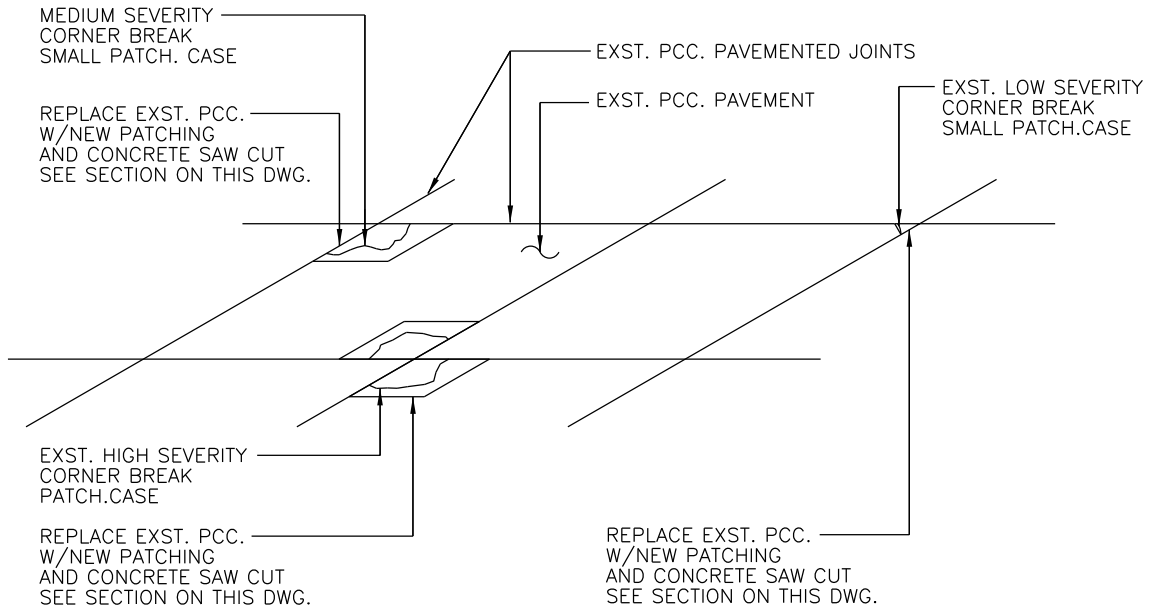
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TITLE

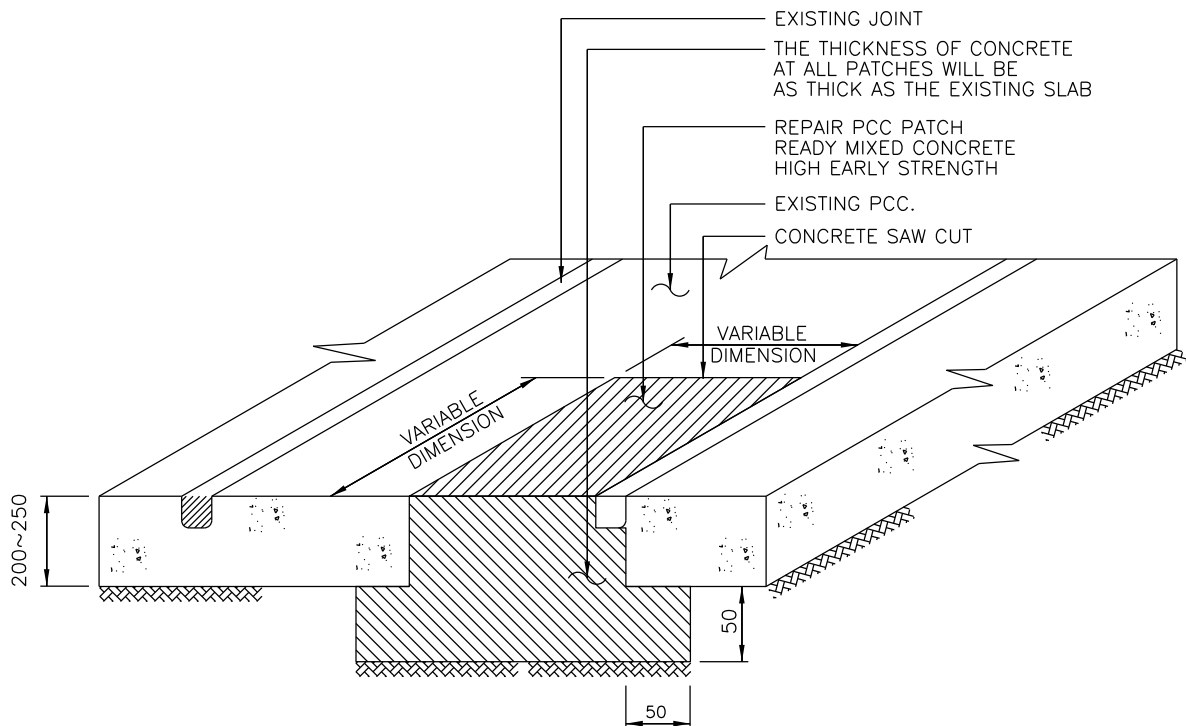
PLAN OF SPALL REPAIRS (PCC) - 3

321313.06

C - 220



PLAN FOR EXISTING SPALLS (CORNER AND EDGE)



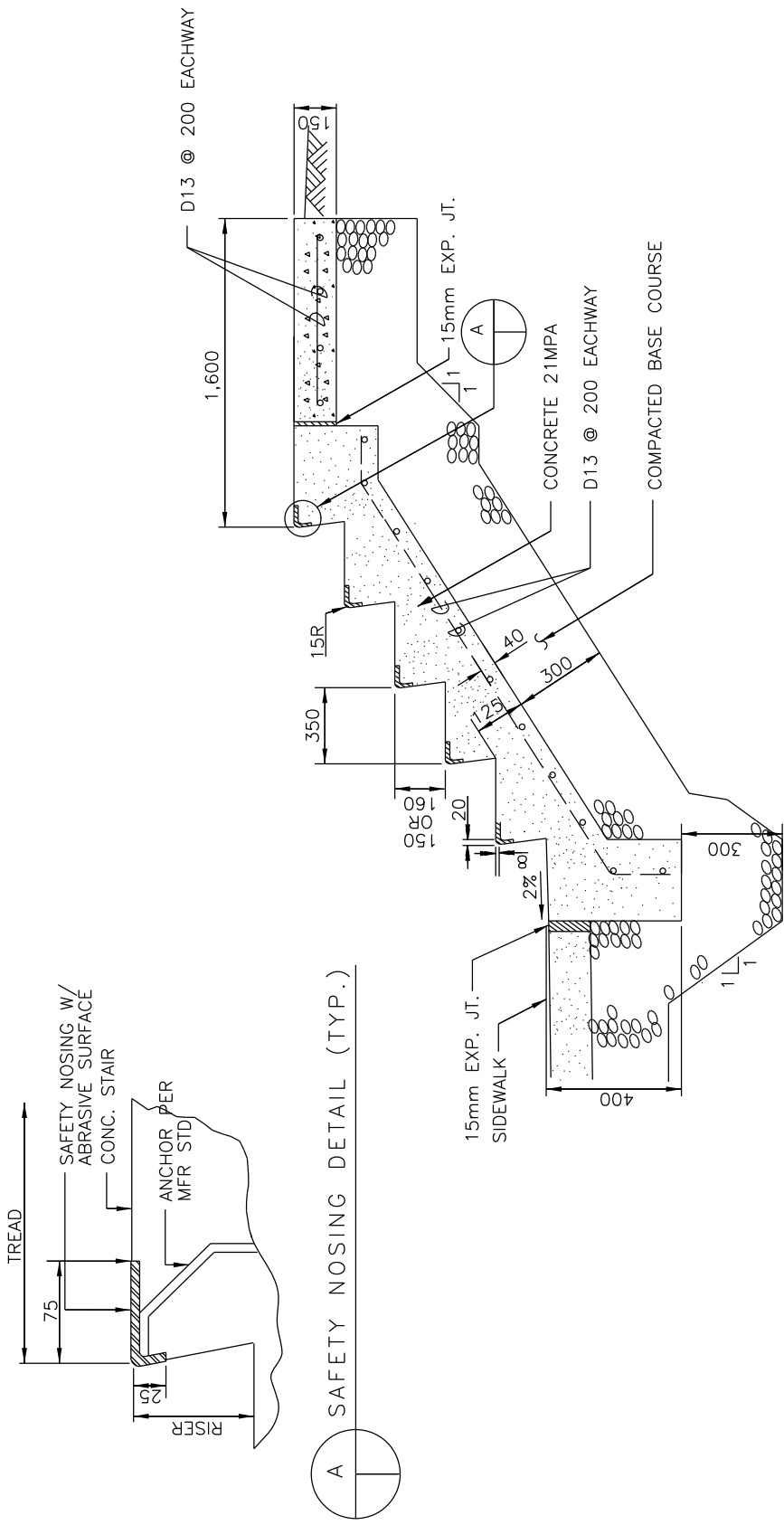
- NOTES :
1. COMPRESSIVE STRENGTH AT 28 DAYS 280 kgf/cm².
 2. FLEXURAL STRENGTH AT 28 DAYS 43 kgf/cm².

PATCHING NEAR JOINT OR EDGES

REPAIR SPALLS (CORNER AND EDGE)

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PLAN OF SPALL REPAIRS (PCC) - 4	321313.06	C - 221

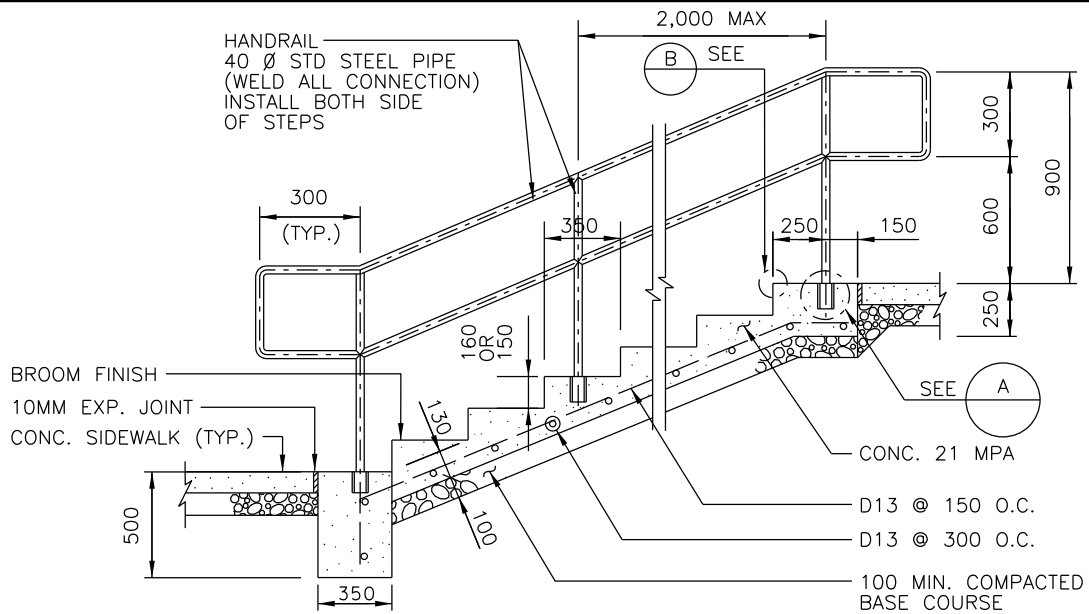


LONGITUDINAL SECTION

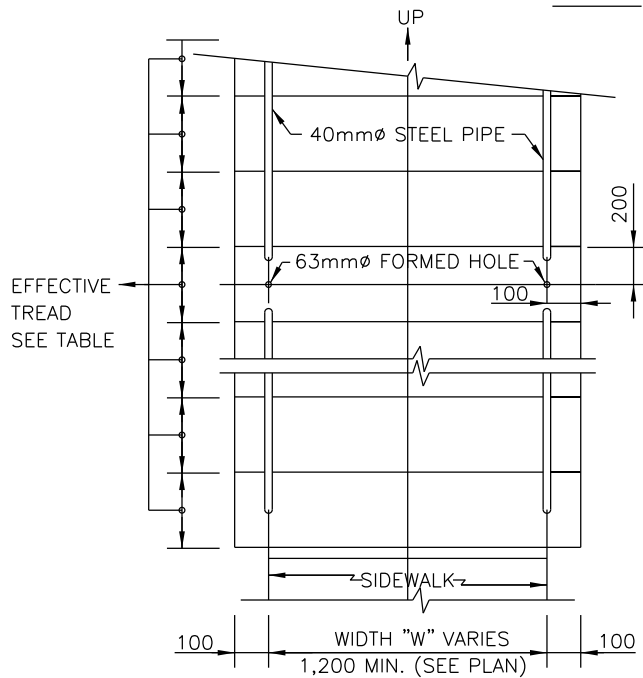
CONC STEPS DETAIL
NOT TO SCALE

	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CONCRETE STEP DETAIL	321613	C - 301

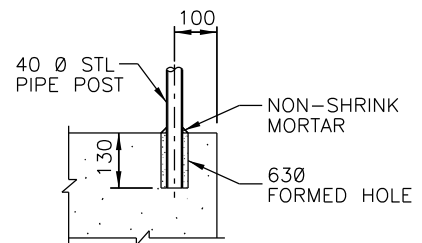
REV DATE: NOV 2015



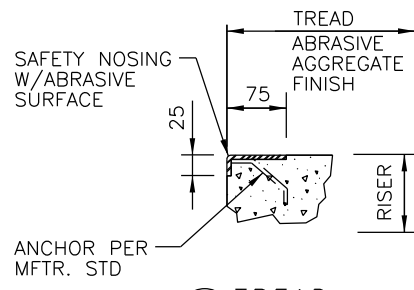
PLAN



PARTIAL PLAN



(A) POST DETAIL



(B) TREAD

TABLE OF PROPORTIONS				
HH HANDRAIL HEIGHT (mm)	RISER (mm)	EFFECTIVE TREAD (mm)	STAIR ANGLE (°) (DEGREES)	HEAD CLEARANCES
				Y VERTICAL (mm)
900	100	713	8°	2,100
	107	603	10°	2,100
875	113	530	12°	2,130
	119	478	14°	2,130
850	125	435	16°	2,130
	132	405	18°	2,150
825	138	378	20°	2,150
	144	355	22°	2,150

TYP. CONC. STEPS W/ HANDRAILS
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

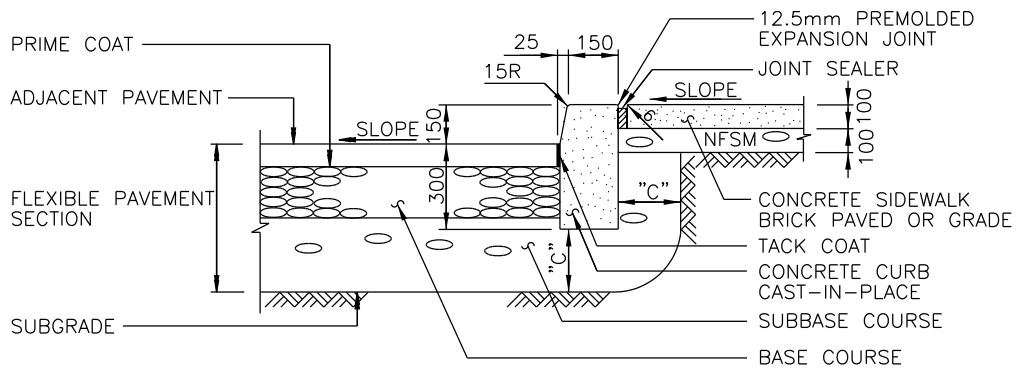
CONCRETE STEP WITH HANDRAIL

OMA SPEC

321613

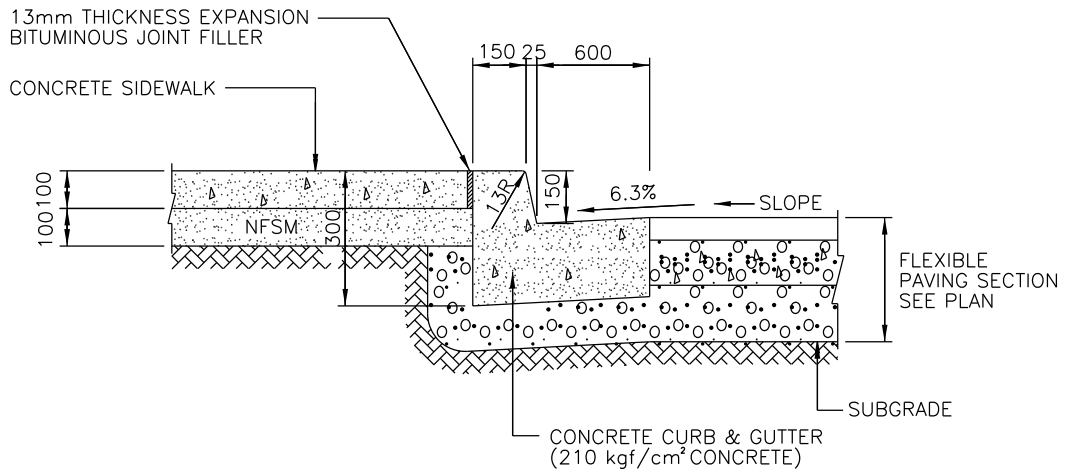
DWG NO.

C - 302



NOTES:
 PROVIDE EXPANSION JOINTS AT MAX. 15M INTERVALS.

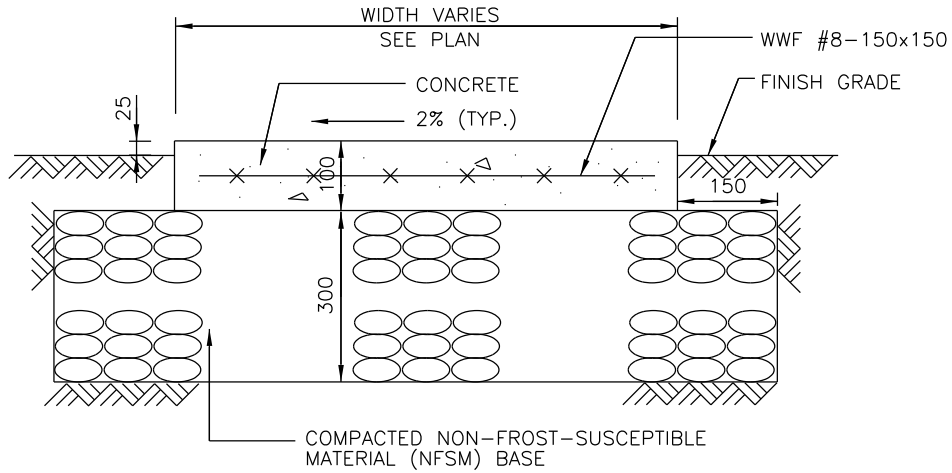
CONCRETE CURB
 NOT TO SCALE



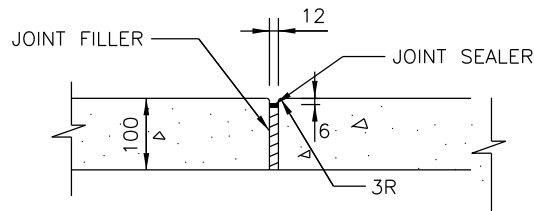
NOTE:
 1. PROVIDE EXPANSION JOINTS AT MAXIMUM 15m. INTERVALS (MATCH SIDEWALK)
 2. "C" DIMENSION CONSTANT EQUALS PAVEMENT'S SECTION MINUS 300mm

CONCRETE CURB & GUTTER DETAIL
 NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CONCRETE CURB AND CONCRETE CURB & GUTTER	321613	C - 303

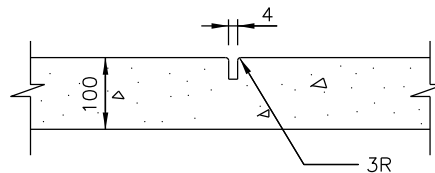


SECTION



NOTE:
PROVIDE EXPANSION JOINTS AT MAX 15M INTERVALS
FOR STRAIGHT SECTIONS, AT ALL RETURNS OF WALKS,
AND WHERE WALKS ABOUT OTHER CONCRETE STRUCTURES

EXPANSION JOINT



NOTE:
TRANSVERSE CONTRACTION JOINTS SHALL BE SPACED SO
THAT THE RATIO OF SLAB LENGTH TO WIDTH WILL NOT
EXCEED 1.25. THE DEPTH OF THE CONTRACTION JOINT WILL
BE AT LEAST ONE-FOURTH (1/4) OF THE SIDEWALK SLAB
THICKNESS, BUT NOT LESS THAN THE MAXIMUM NOMINAL SIZE
OF THE AGGREGATE USED.

CONTRACTION JOINT

CONCRETE SIDEWALK W/ WWF
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

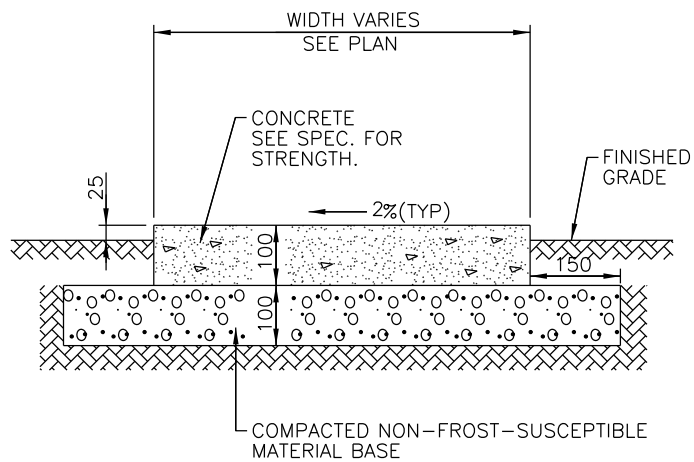
CONCRETE SIDEWALK WITH WWF

OMA SPEC

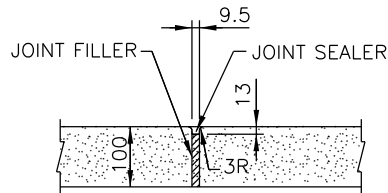
321613

DWG NO.

C - 304

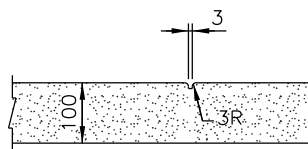


SECTION



PROVIDE EXPANSION JOINTS AT MAXIMUM 15m INTERVALS FOR STRAIGHT SECTIONS AND AT ALL RETURNS OF WALKS, AND WHERE WALKS ABUT OTHER CONCRETE STRUCTURES

EXPANSION JOINT



TRANSVERSE CONTRACTION JOINTS SHALL BE SPACED SO THAT THE RATIO OF SLAB LENGTH TO WIDTH WILL NOT EXCEED 1.25. THE DEPTH OF THE CONTRACTION JOINT WILL BE AT LEAST ONE - FOURTH OF THE SIDEWALK SLAB THICKNESS. BUT NOT LESS THAN THE MAXIMUM NOMINAL SIZE OF THE AGGREGATE USED.

CONTRACTION JOINT

CONCRETE SIDEWALK
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

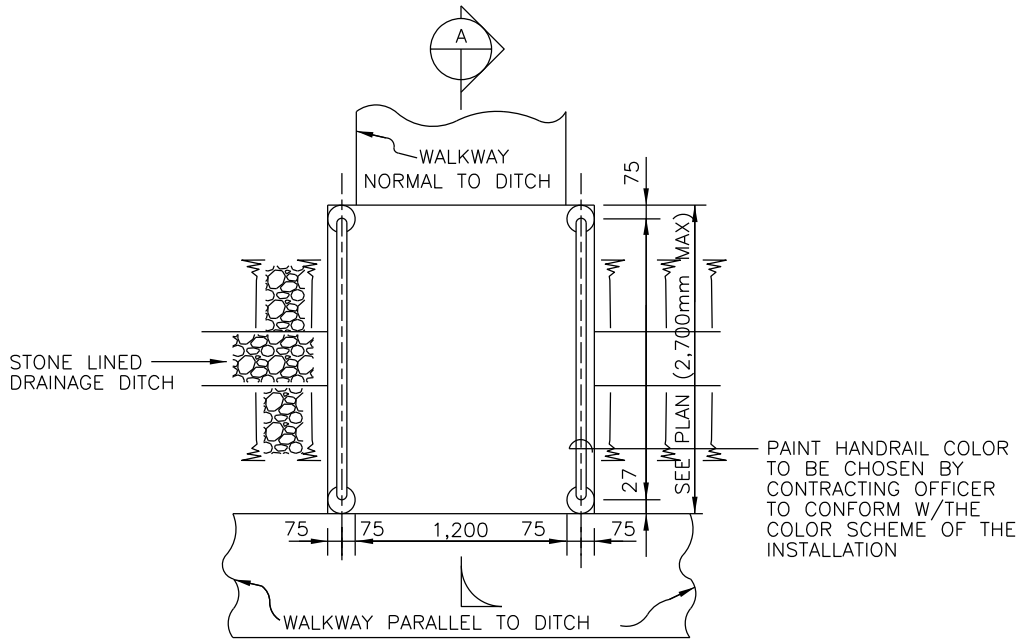
DWG NO.

TITLE

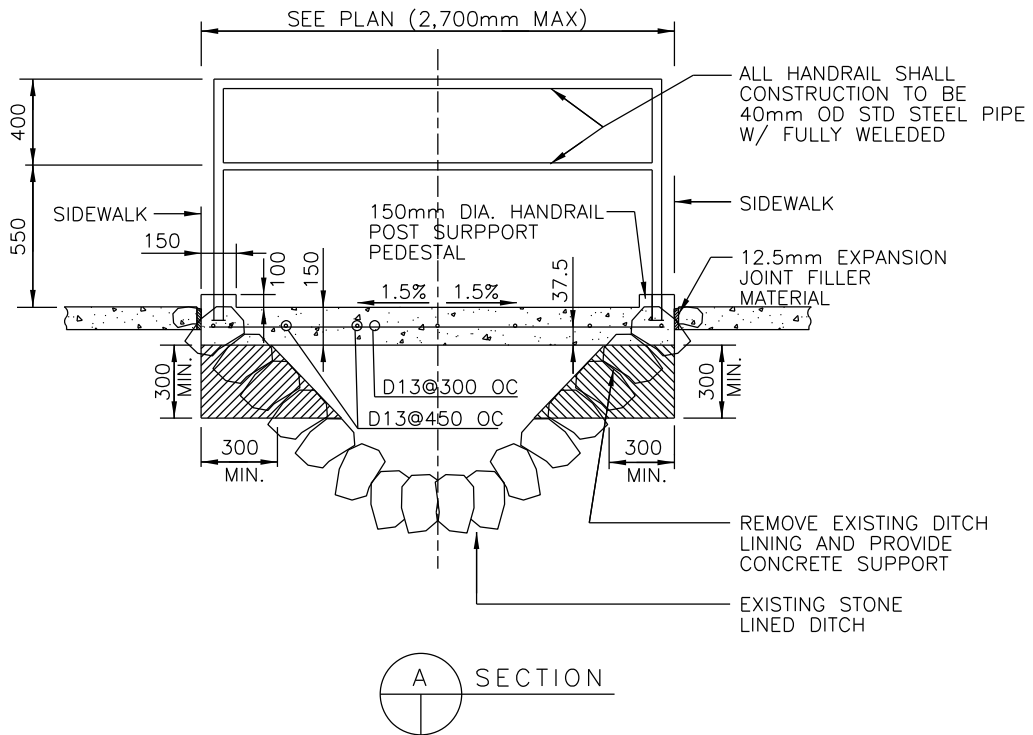
CONCRETE SIDEWALK

321613

C - 305



PLAN



SIDEWALK CROSSING AT DITCHES
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

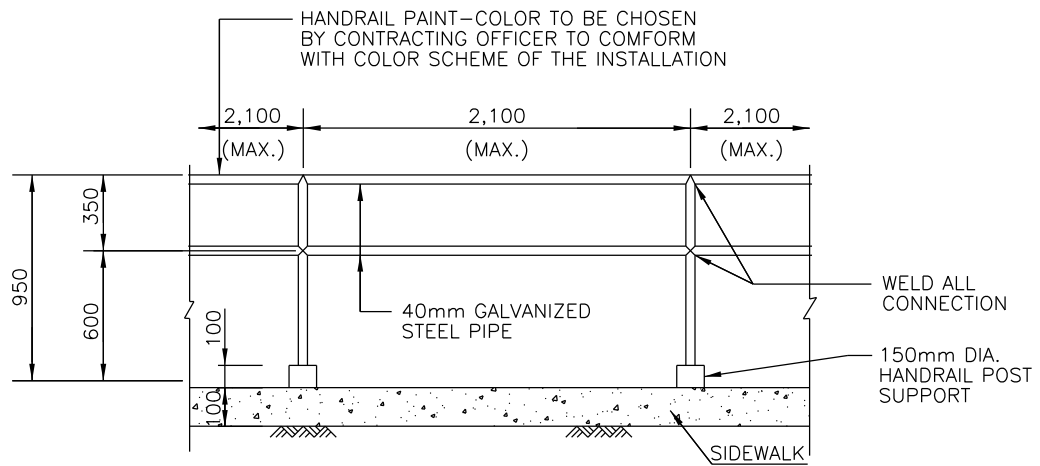
DWG NO.

TITLE

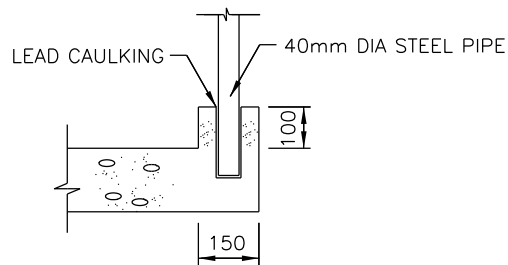
CONCRETE SIDEWALK CROSSING AT DITCH

321613

C - 306



PLAN



HANDRAIL SUPPORT

SIDEWALK W/ HANDRAIL
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CONCRETE SIDEWALK WITH HANDRAIL	321613	C - 307

REV DATE: NOV 2015



O&MA STANDARD DETAILS, KOREA

OMA SPEC

DWG NO.

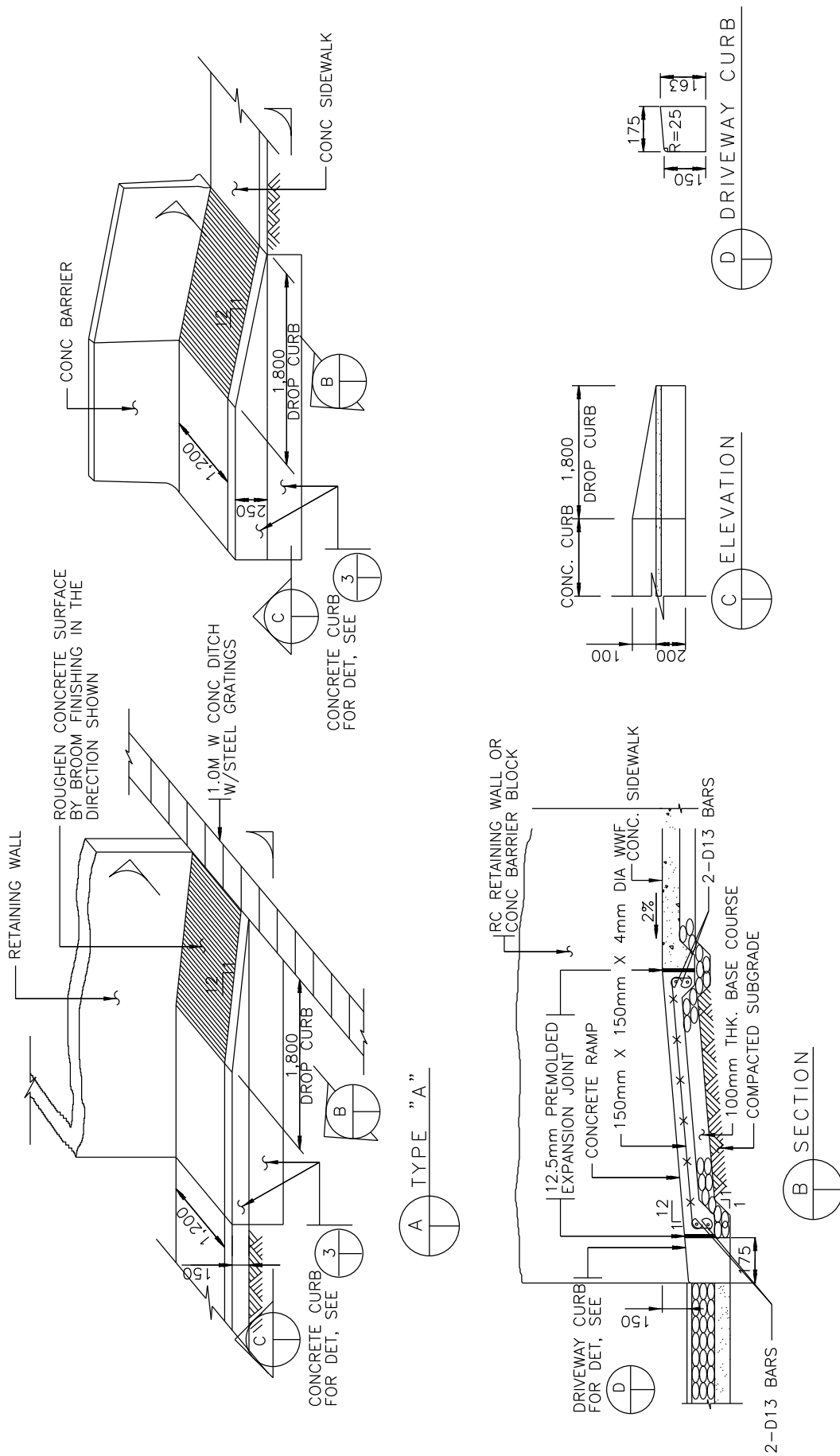
TITLE

CONCRETE ADA RAMP DETAIL

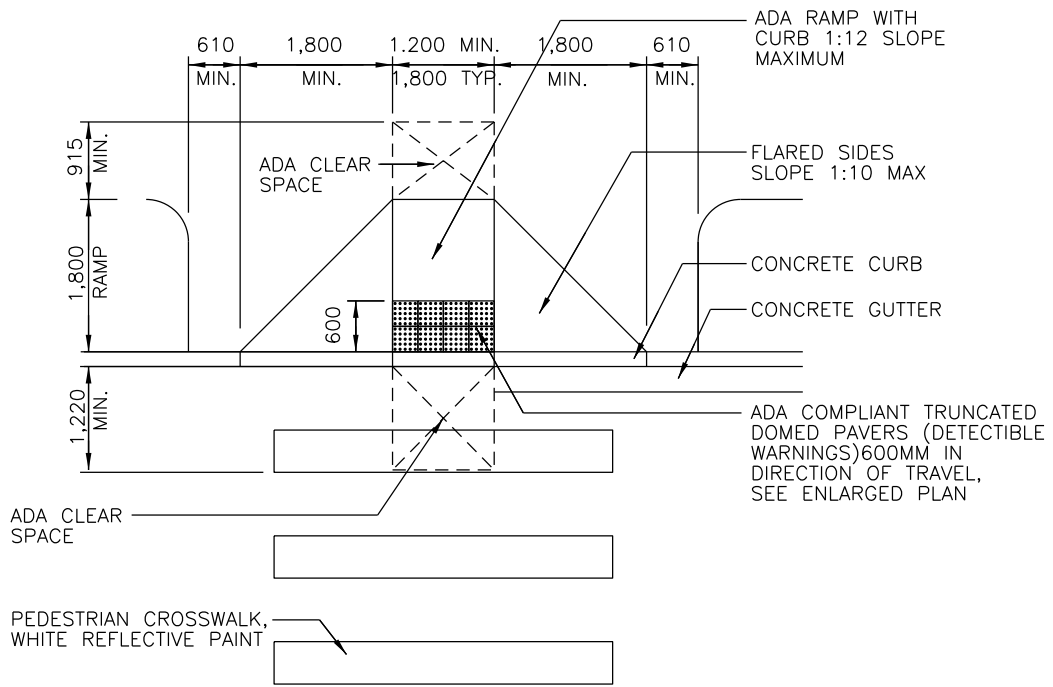
321613

C - 308

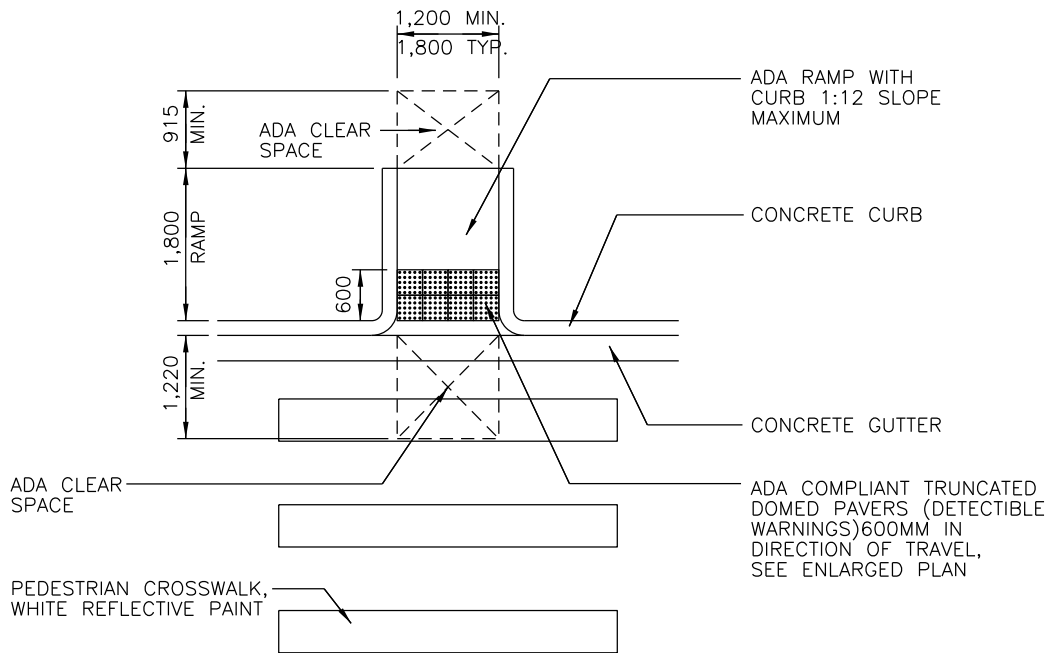
REV DATE: NOV 2015



CONCRETE RAMP DETAIL
NOT TO SCALE



RAMP W/ FLARED SIDES



RAMP W/ CURBED SIDES

ADA/ABA RAMP CROSSWALK

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

DWG NO.

TITLE

CONCRETE ADA RAMP W/ CURB STANDARD

321613

C - 309



O&MA STANDARD DETAILS, KOREA

TITLE

CONCRETE ADA RAMP AT CROSSWALK

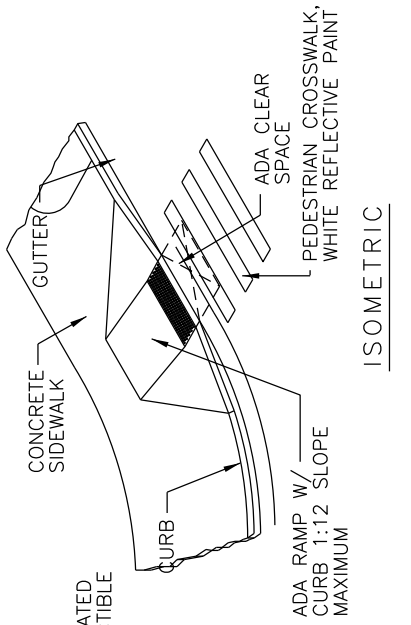
OMA SPEC

321613

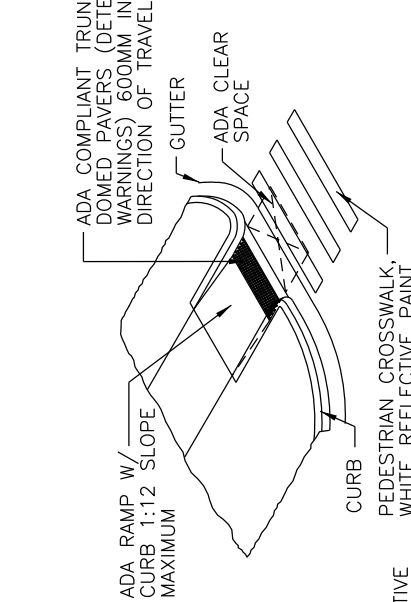
DWG NO.

C - 310

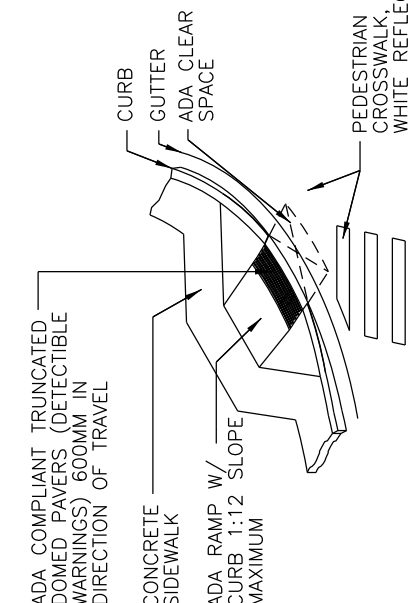
REV DATE: NOV 2015



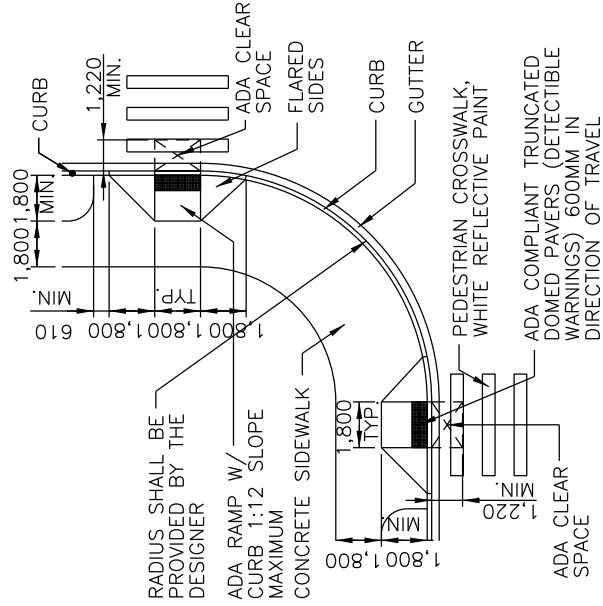
ISOMETRIC



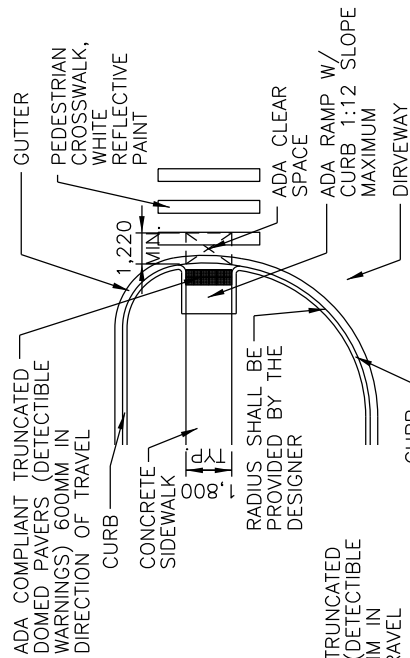
ISOMETRIC



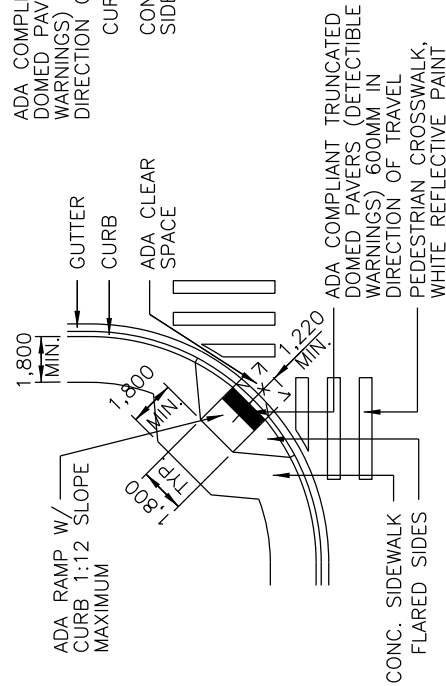
ISOMETRIC



PLAN



PLAN

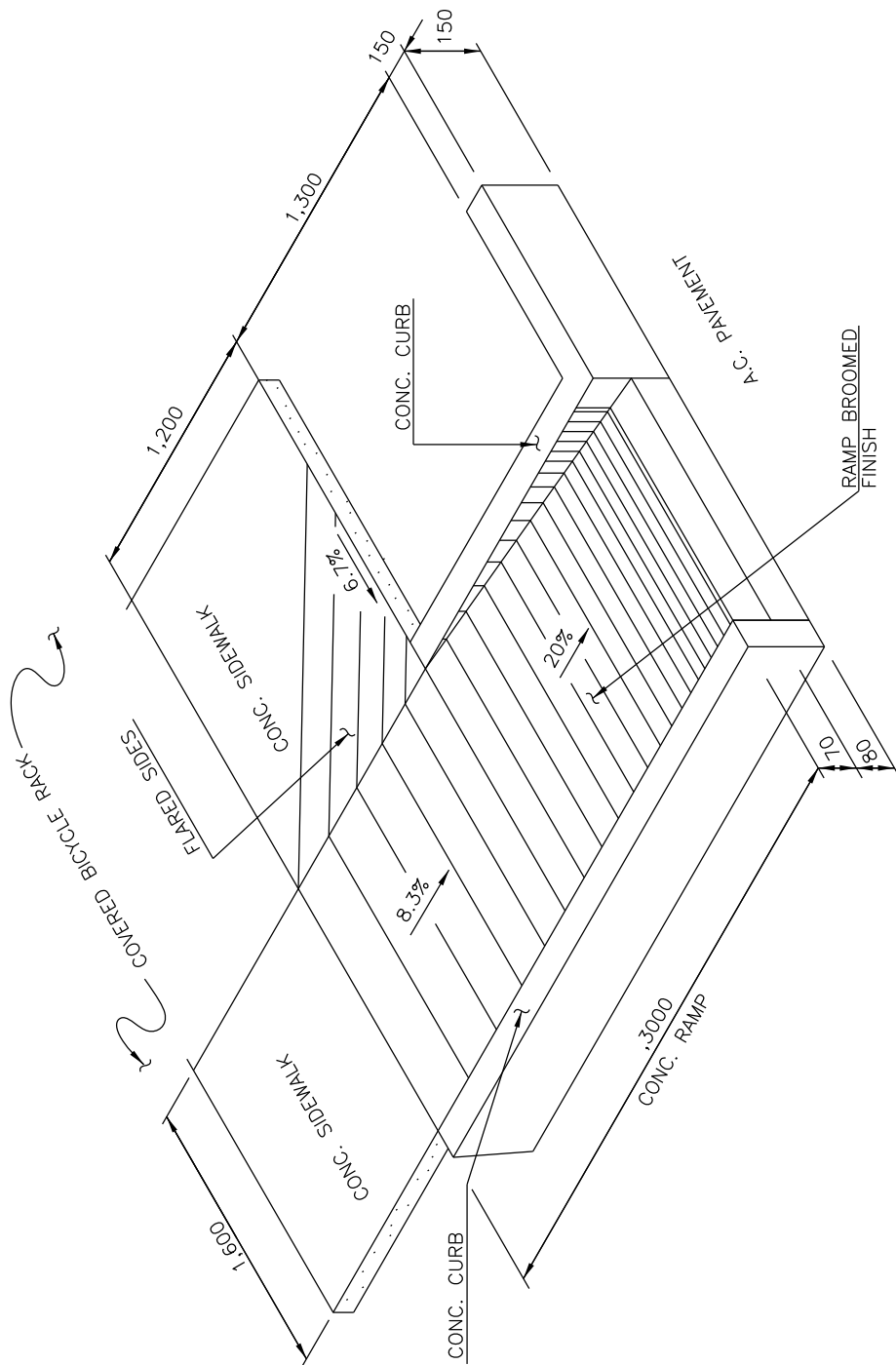


PLAN

ADA/ABA RAMP
MID BLOCK CROSSWALK
NOT TO SCALE

ADA/ABA RAMP W/ CURB
NOT TO SCALE

ADA/ABA RAMP
CORNER CROSSWALK
NOT TO SCALE



BICYCLE CONC. RAMP
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

CONCRETE BIKE RAMP DETAIL

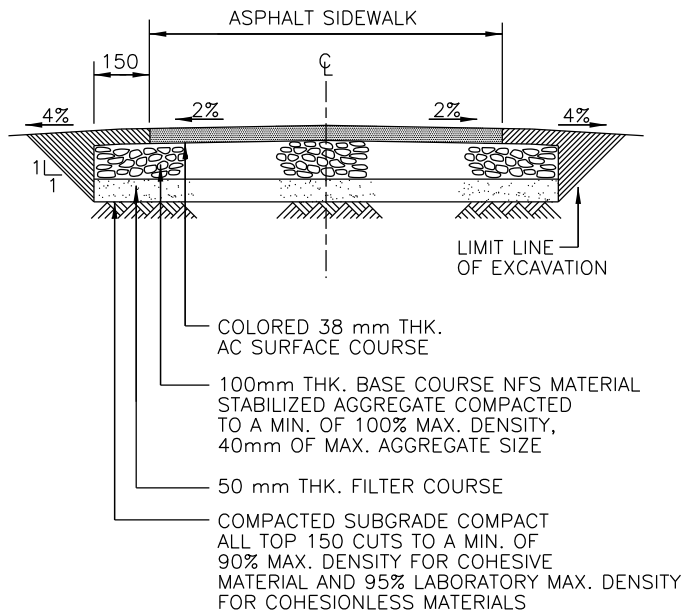
OMA SPEC

321613

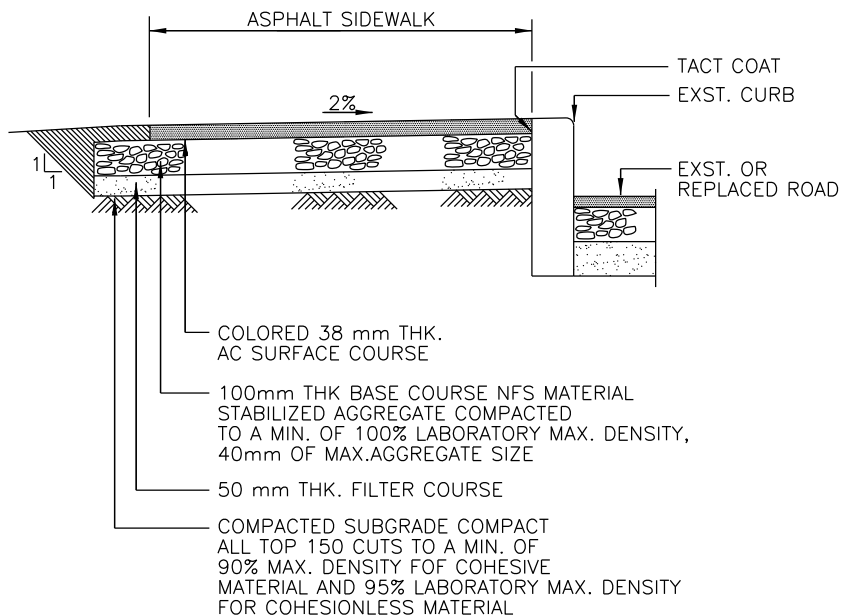
DWG NO.

C - 311

REV DATE: NOV 2015



CASE # 1



CASE # 2

ASPHALT SIDEWALK
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

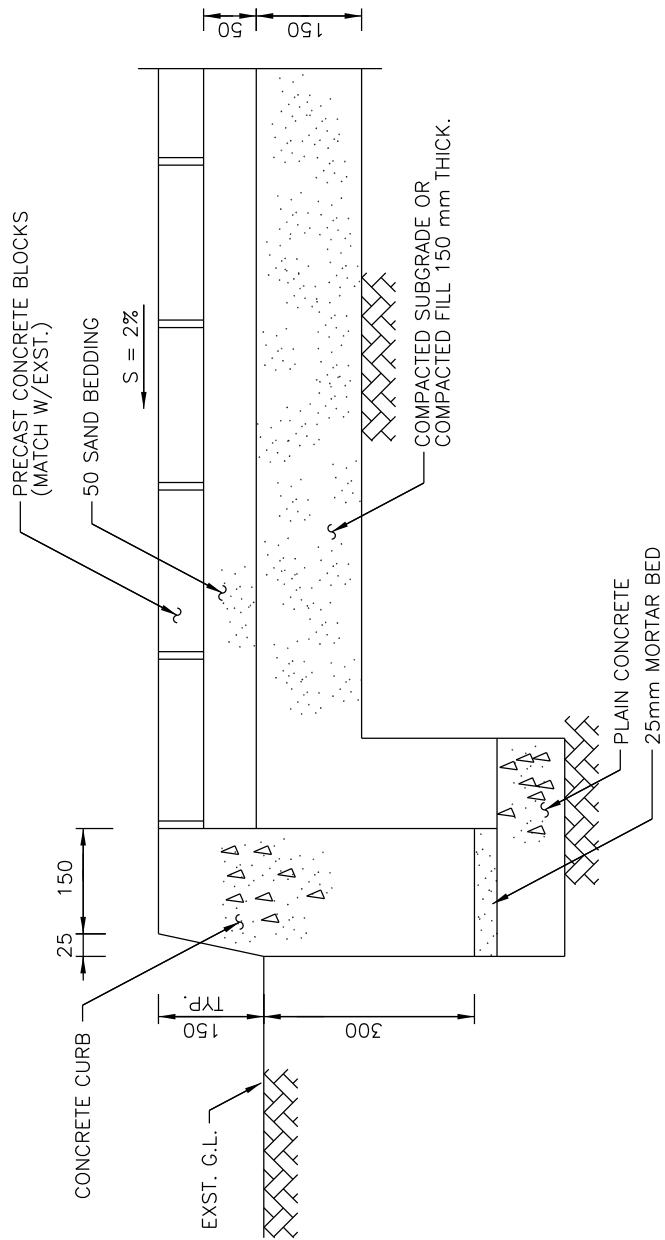
DWG NO.

TITLE

ASPHALT PAVED SIDEWALK

321613

C - 312



PRECAST CEMENT BRICK PAVED SIDEWALK
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

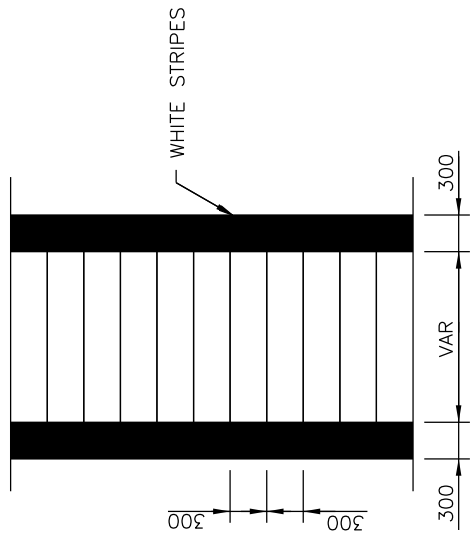
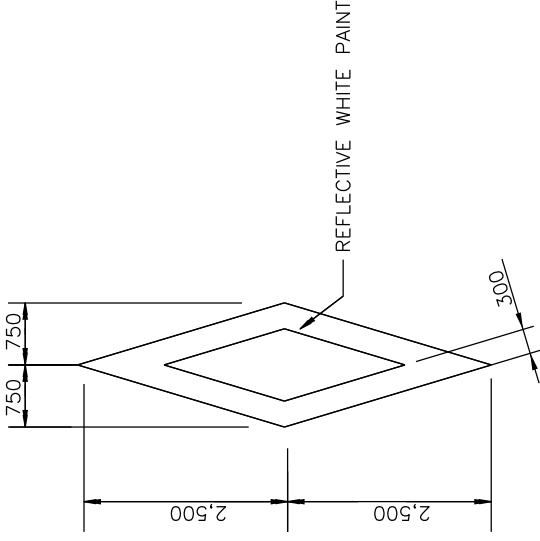
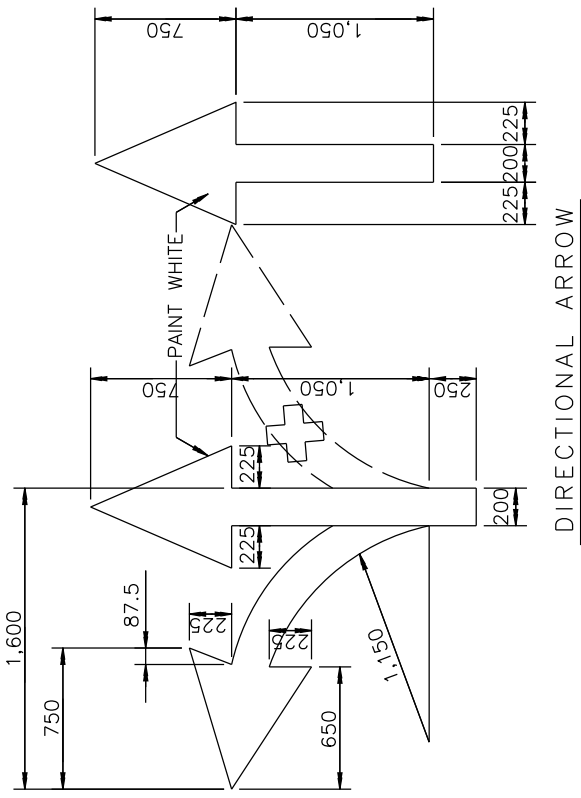
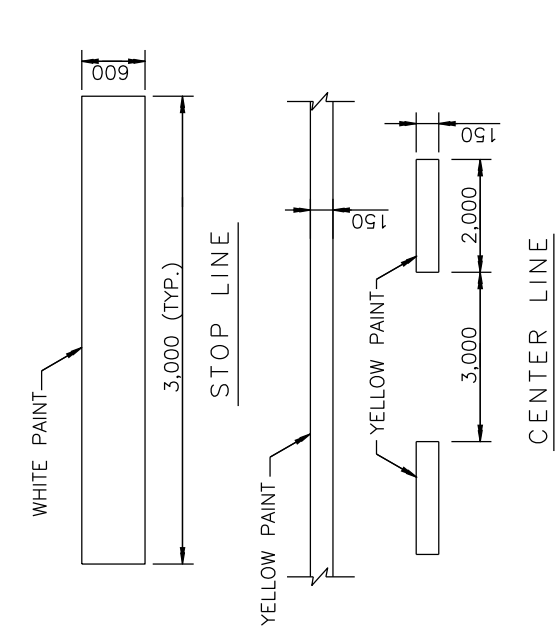
PRECAST CEMENT BRICK PAVED SIDEWALK

OMA SPEC

321613

DWG NO.

C - 313



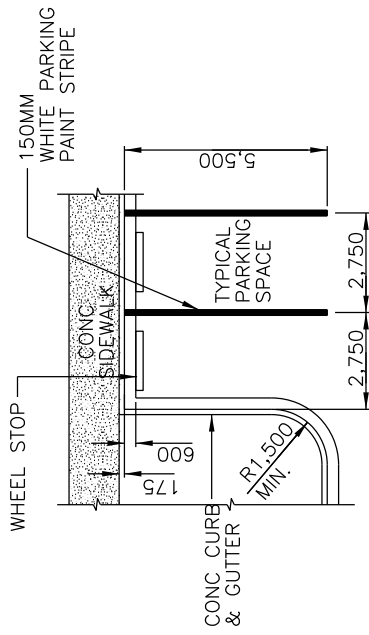
PEDESTRIAN CROSSWALK AHEAD MARKING

PEDESTRIAN CROSSWALK MARKING

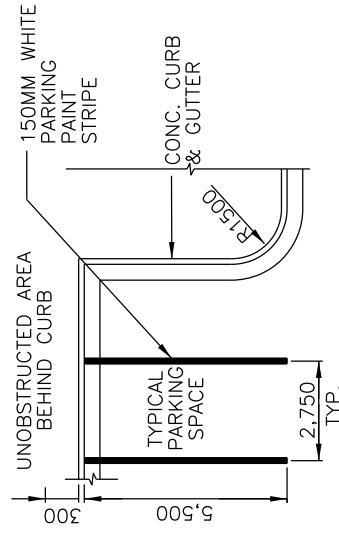
PAVEMENT MARKING DETAILS
NOT TO SCALE

	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PAVEMENT MARKING DETAILS	321724.0010	C - 401

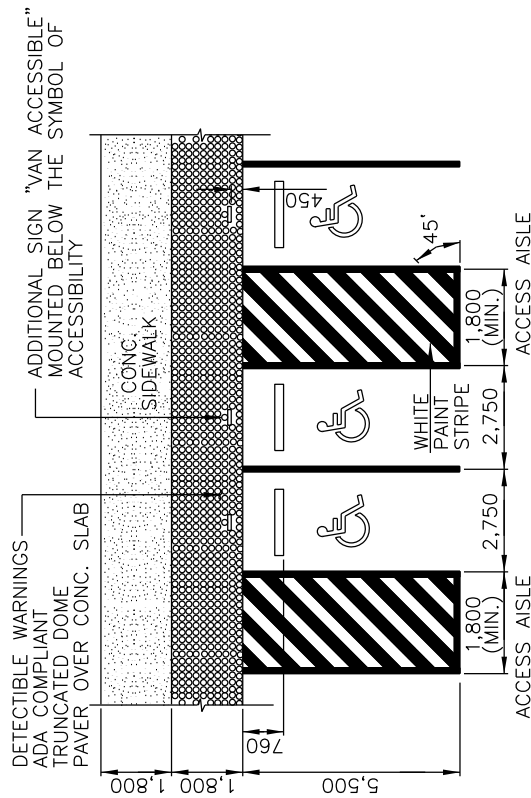
REV DATE: NOV 2015



PARKING STALL STRIPING W/ WHEEL STOP



PARKING STALL STRIPING



HANDICAPPED PARKING DETAIL

PARKING STRIPES DETAILS

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

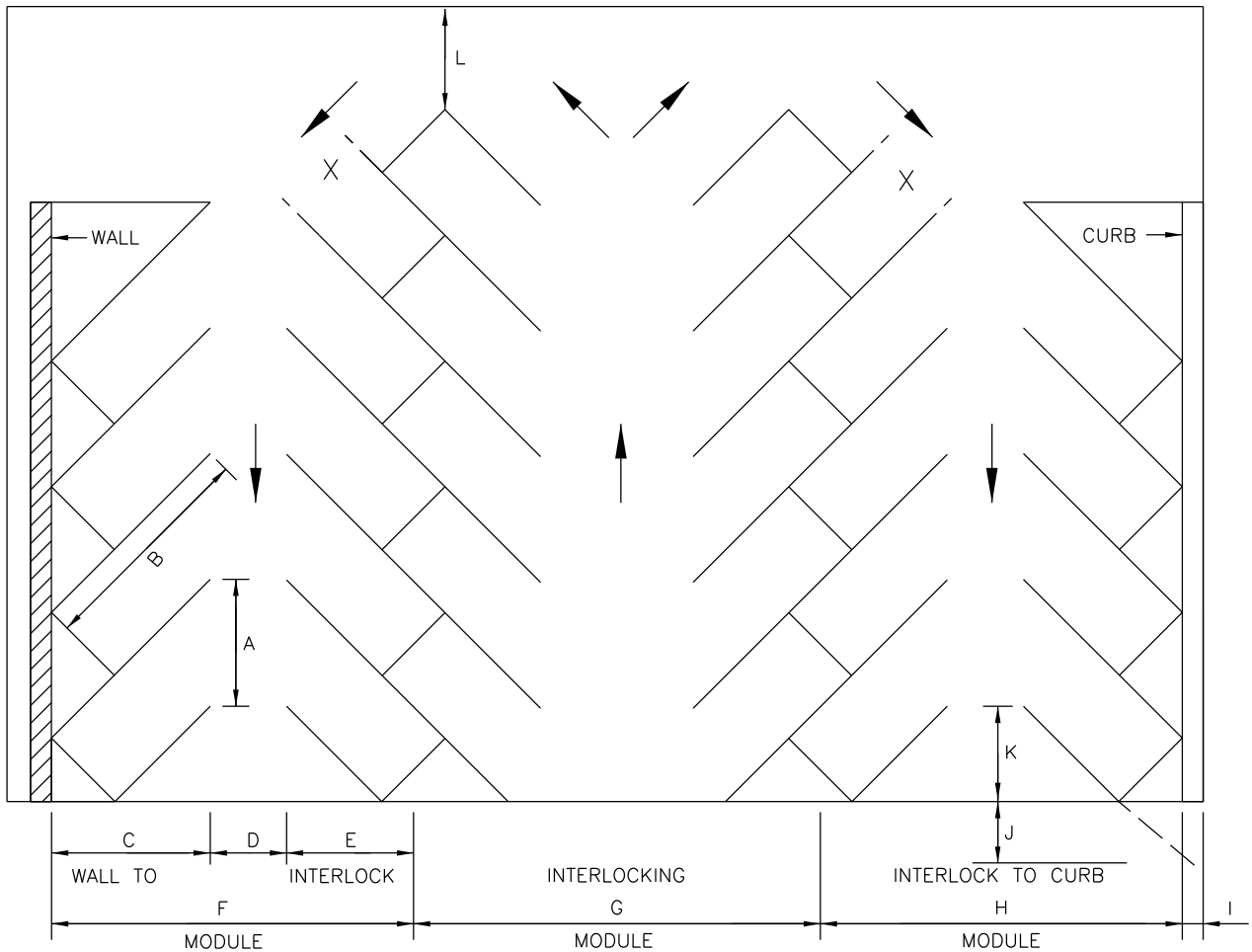
PARKING STRIPES DETAILS

OMA SPEC

321724.0010

DWG NO.

C - 402



X = STALL NOT ACCESSIBLE IN CERTAIN LAYOUTS

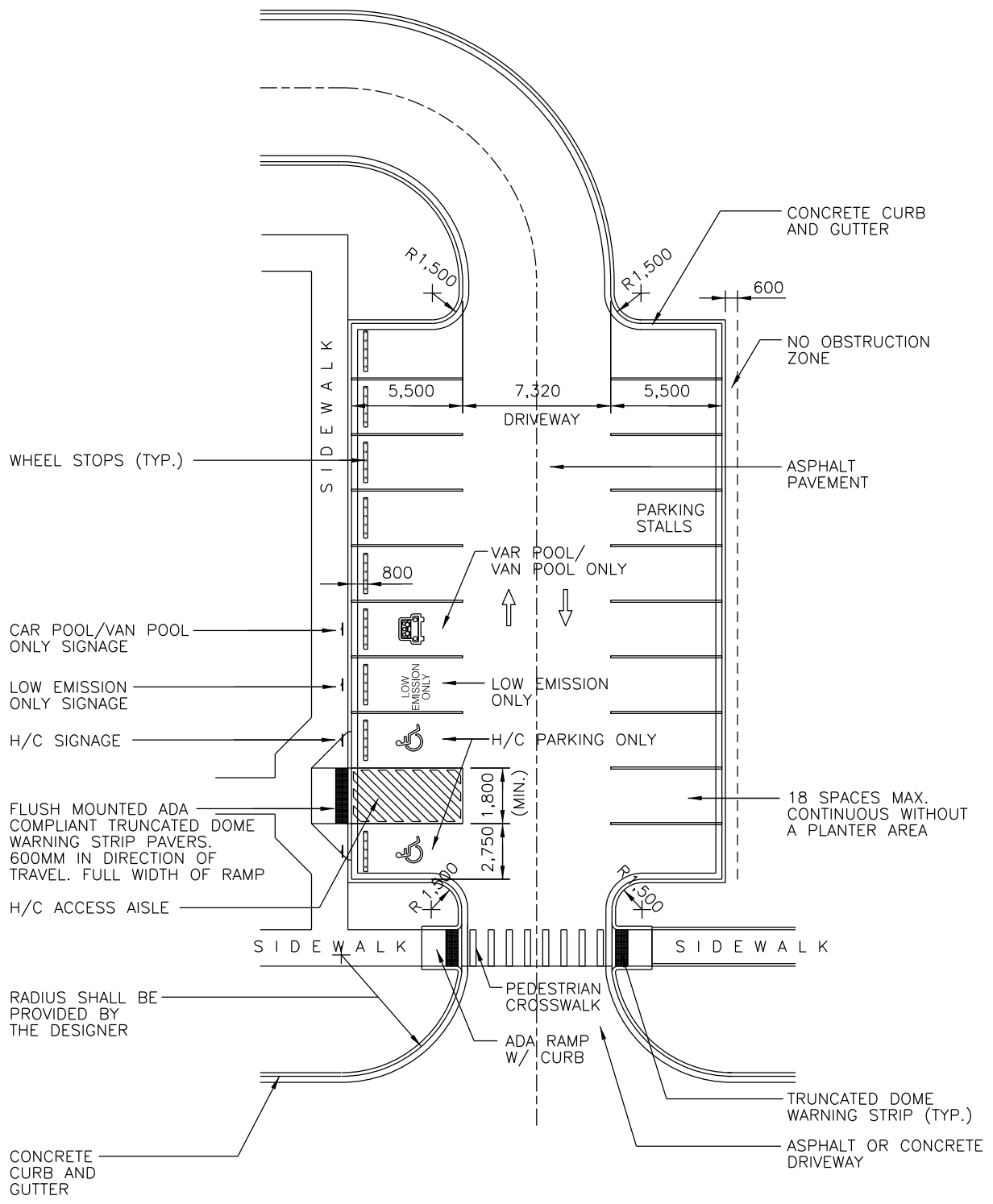
DIMENSION	ON DIAGRAM	ANGLE		
		45	60	90
STALL WIDTH, PARALLEL TO AISLE	A	3.8M (12.7FT)	3.2M (10.4FT)	2.7M (9.0FT)
STALL LENGTH OF LINE	B	8.3M (27.5FT)	7.2M (23.7FT)	5.5M (18.5FT)
STALL DEPTH TO WALL	C	5.9M (19.5FT)	6.2M (20.5FT)	5.5M (18.5FT)
AISLE WIDTH BETWEEN STALL LINES	D	3.6M (12.0FT)	4.8M (16.0FT)	7.8M (26.0FT)
STALL DEPTH, INTERLOCK	E	5.0M (16.5FT)	5.6M (18.5FT)	5.5M (18.5FT)
MODULE, WALL TO INTERLOCK	F	14.5M (48.0FT)	16.5M (55.0FT)	19.0M (63.0FT)
MODULE, INTERLOCKING	G	13.5M (45.0FT)	16.0M (53.0FT)	19.0M (63.0FT)
MODULE INTERLOCK TO CURB FACE	H	14.0M (46.0FT)	16.0M (53.2FT)	18.2M (60.5FT)
BUMPER OVERHANG (TYPICAL)	I	0.6M (2.0FT)	0.7M (2.3FT)	0.8M (2.5FT)
OFFSET	J	1.9M (6.4FT)	0.8M (2.6FT)	0.0M (0.0FT)
SETBACK	K	4.0M (13.1FT)	2.8M (9.3FT)	0.0M (0.0FT)
CROSS AISLE, ONE - WAY	-	4.2M (14.0FT)	4.2M (14.0FT)	4.2M (14.0FT)
CROSS AISLE, TWO - WAY	L	7.2M (24.0FT)	7.2M (24.0FT)	7.2M (24.0FT)

NOTE : THIS CHART IS DERIVED FROM SDDCTEA PAMPHLET 55-17, 2011.
(MILITARY SURFACE DEPLOYMENT & DISTRIBUTION COMMAND TRANSPORTATION ENGINEERING AGENCY)

PARKING LAYOUT DIMENSION
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	ANGLED PARKING DIMENSIONS	321724.0010	C - 403

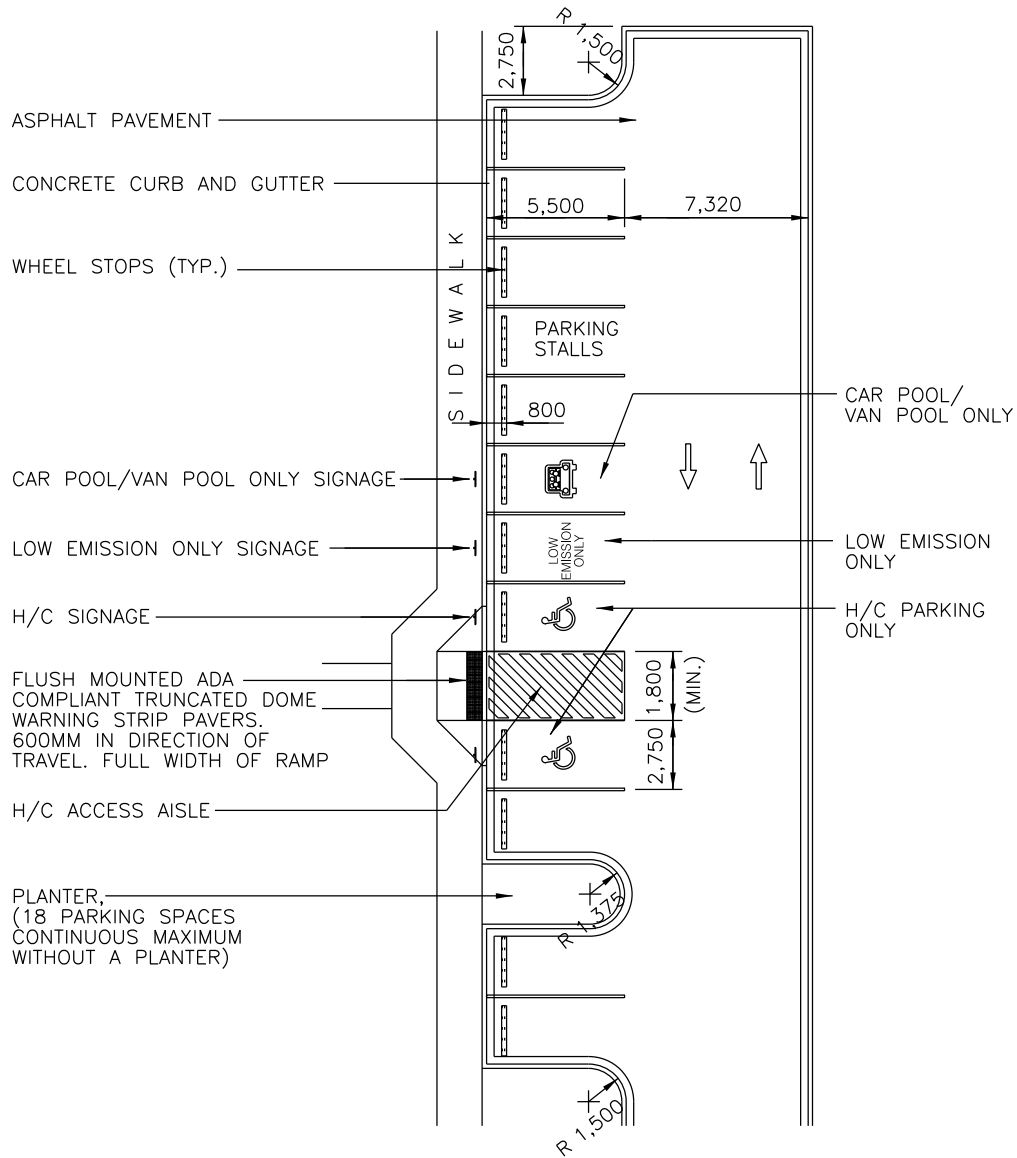
REV DATE: NOV 2015



SINGLE AISLE - DOUBLE LOADED PARKING LOT LAYOUT
 NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	SINGLE AISLE DOUBLE LOADED PARKING LOT (LAYOUT PLAN)	331724.0010	C - 404

REV DATE: NOV 2015

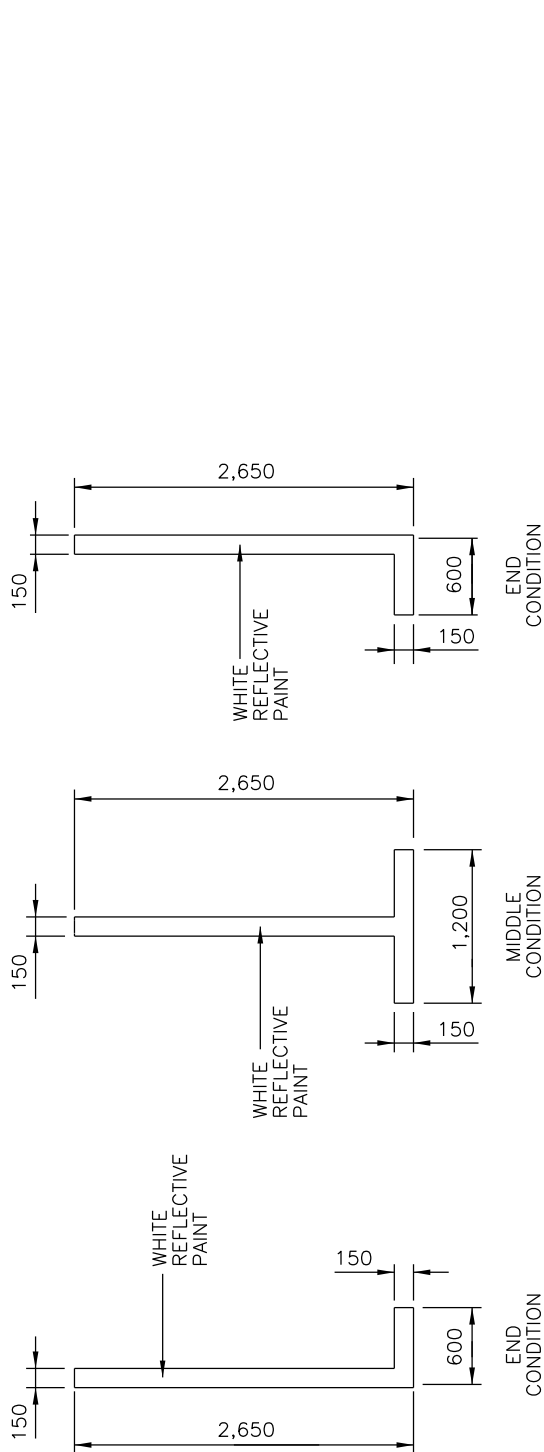


NOTE :
 WHEEL STOPS CAN ALSO BE TWO-PIECE
 BLACK SYNTHETIC TYPE WITH YELLOW
 REFLECTIVE TAPE AND ADHERED
 FASTENER CAPS.

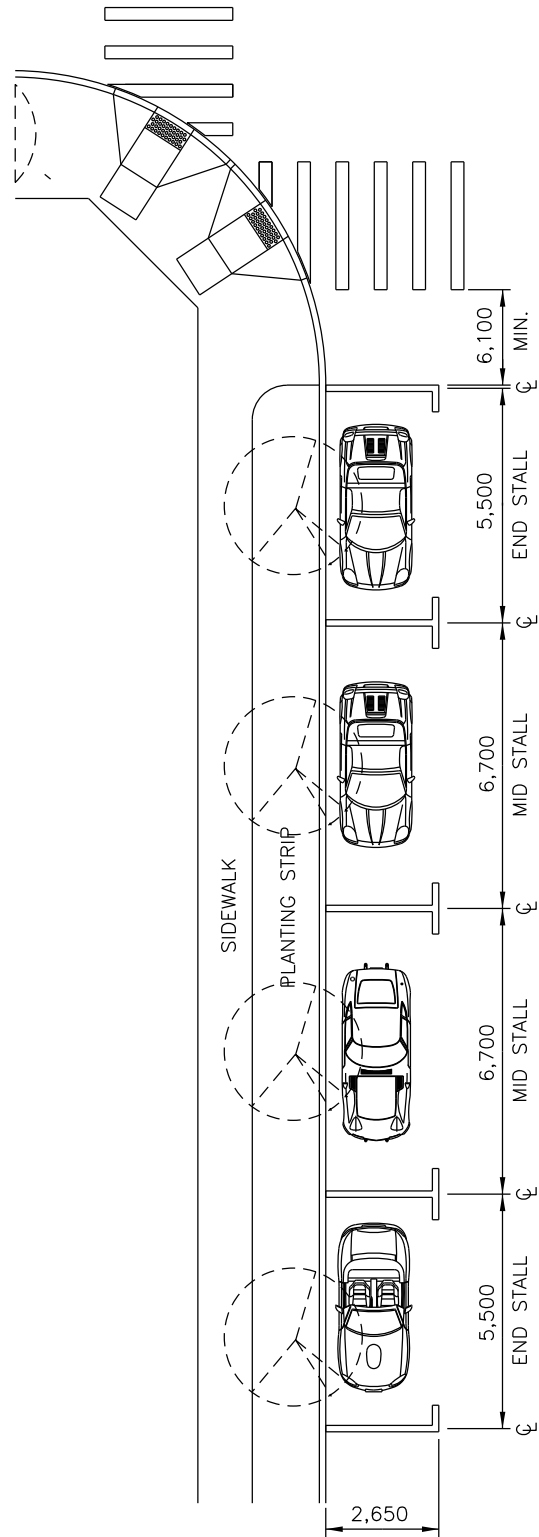
SINGLE AISLE - SINGLE LOADED PARKING LOT LAYOUT
 NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	SINGLE AISLE SINGLE LOADED PARKING LOTS (LAYOUT PLAN)	321724.0010	C - 405

REV DATE: NOV 2015



**ON STREET PARKING
ROADWAY MARKINGS**
NOT TO SCALE



ON STREET PARKING CONFIGURATION
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

DWG NO.

TITLE

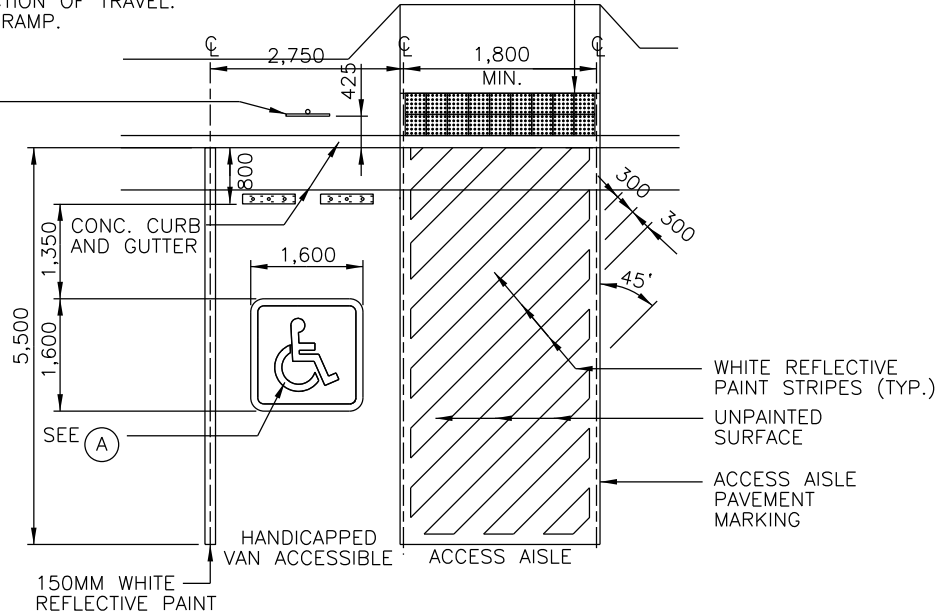
ON STREET PARKING CONFIGURATION

321724.0010

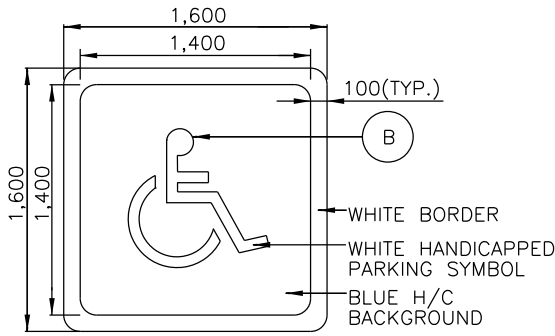
C - 406

FLUSH MAOUNTED ADA COMPLIANT TRUNCATED DOME PAVERS. 600MM IN DIRECTION OF TRAVEL. FULL WIDTH OF RAMP.

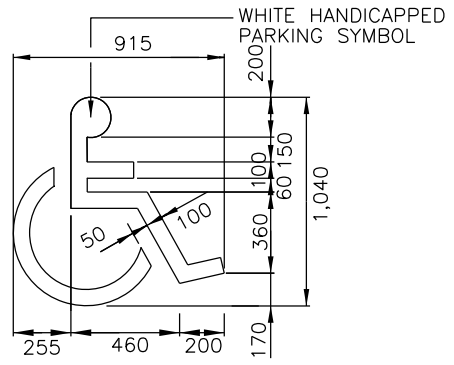
HANDICAPPED SIGN & POST



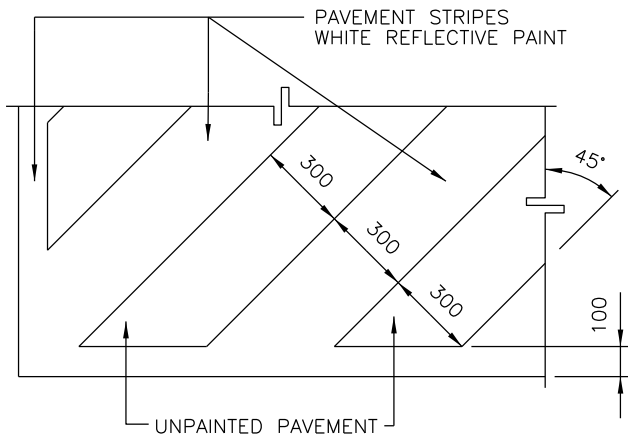
PLAN



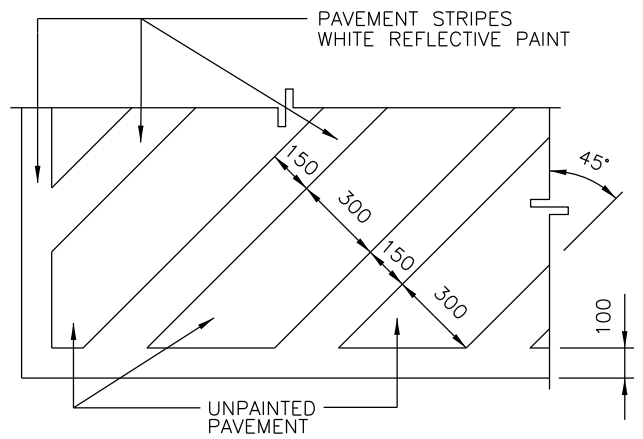
A PAVEMENT MARKING



B MARKING DETEAIL



PAVEMENT STRIPES FOR HANDICAPPED ACCESS AISLE



PAVEMENT STRIPES FOR NO PARKING

HANDICAPPED PARKING SPACE W/ ACCESS AISLE
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

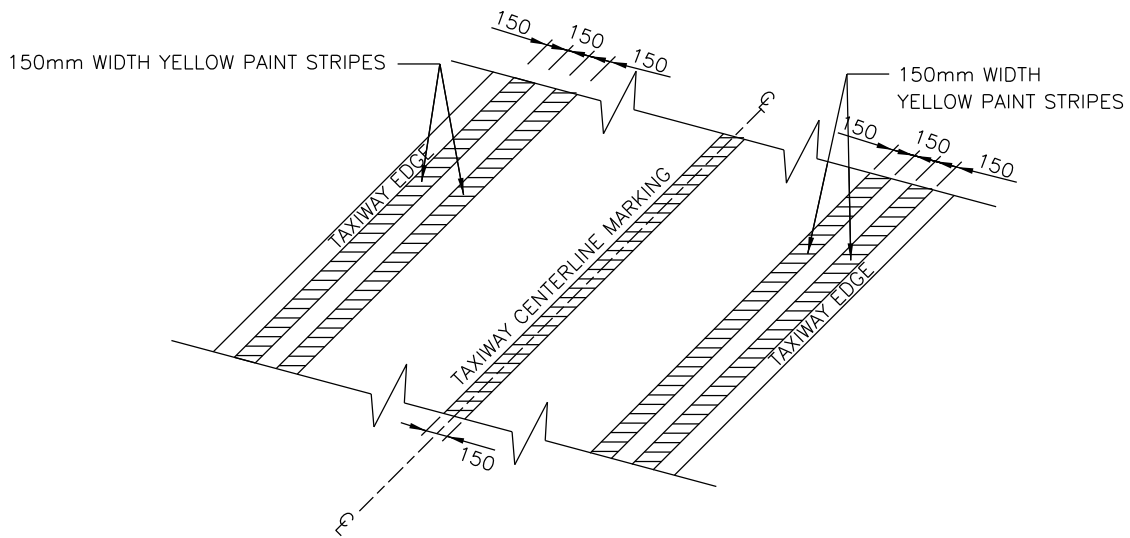
HANDICAPPED PARKING SPACE W/ ACCESS AISLE

OMA SPEC

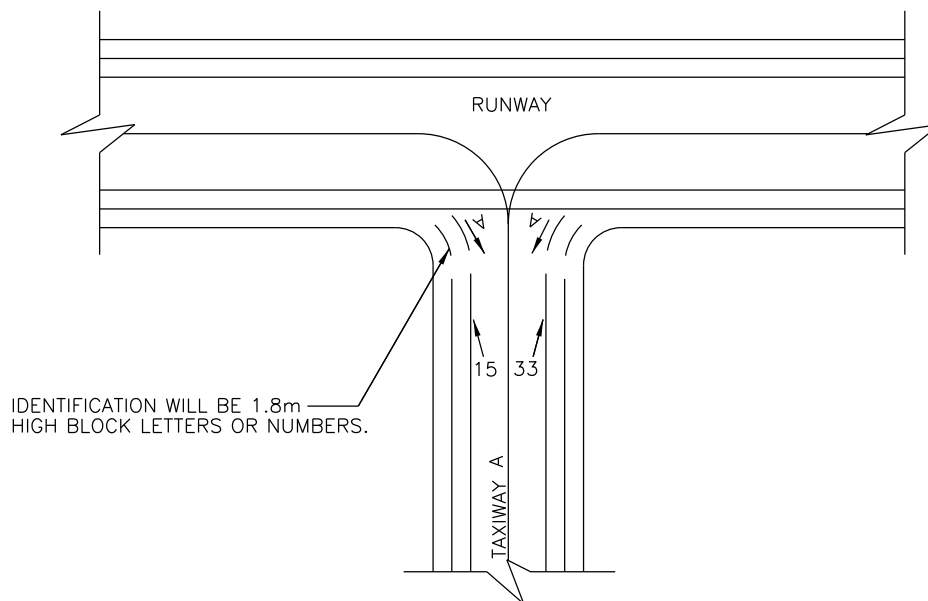
321724.0010

DWG NO.

C - 407



TAXIWAY EDGE MARKING

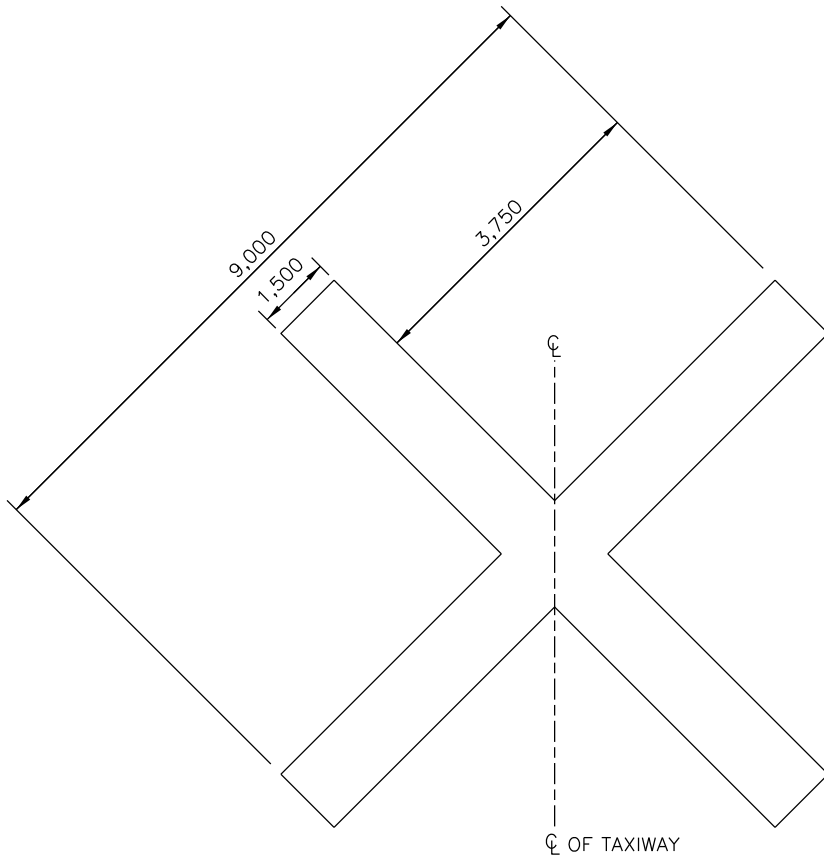


NOTES :

1. COLOR MARKING : TAXIWAYS WILL BE MARKED WITH NONREFLECTIVE YELLOW PAINT.
2. MARKING MATERIALS : PAINT USE IN MARKING OR REMARKING TAXIWAY PAVEMENT WILL CONFORM TO CRITERIA IN O&MA SPECIFICATION 32 17 24.00 10 "PAVEMENT MARKINGS," AND TO THE FOLLOWING SPECIFICATION
 - a. TAXIWAYS : NONREFLECTIVE PAINT WILL CONSIST OF THE PIGMENTED BINDER PAINT COVERED BY FEDERAL SPECIFICATION TT-P-1952.
 - b. APPLICATION OF PAINT : PAINTED MARKINGS WILL BE APPLIED TO PAVED AREAS ONLY AFTER THE PAVEMENTS HAVE BEEN ALLOWED TO CURE THOROUGHLY. CARE WILL BE TAKEN TO INSURE THAT THE PAVEMENT SURFACE IS DRY AND CLEAN TO PAINT. WHEN PAINTED MARKINGS ARE TO BE APPLIED TO RIGID PAVEMENTS THAT HAVE BEEN CURED WITH A MEMBRANE TYPE CURING COMPOUND. THE SURFACE TO BE PAINTED MUST BE CLEANED THOROUGHLY AND THE CURING COMPOUND MUST BE REMOVED BY SANDBLASTING. FLEXIBLE PAVEMENT WILL BE ALLOWED TO CURE AS LONG AS PRACTICABLE BEFORE PAINTING, AND, TO PREVENT UNDUE SOFTENING OF THE BITUMEN BY THE PAINT.

TAXIWAY IDENTIFICATION MARKING
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TAXIWAY MARKINGS	321724.0010	C - 408



CLOSED TAXIWAY

AIRFIELD MARKING
NOT TO SCALE



IMCOM

O&MA STANDARD DETAILS, KOREA

TITLE

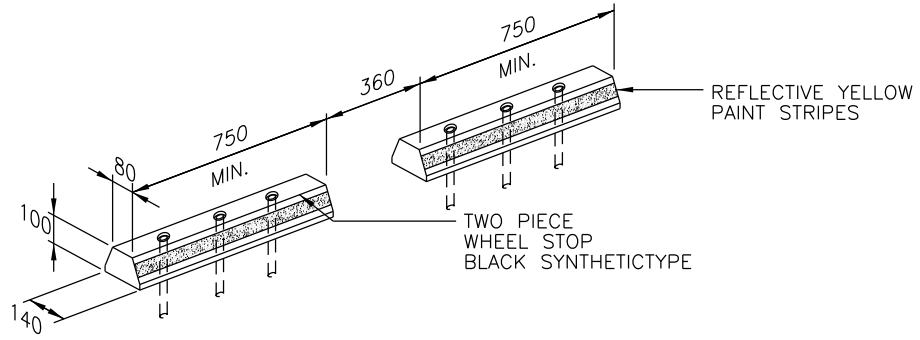
CLOSED TAXIWAY MARKING

OMA SPEC

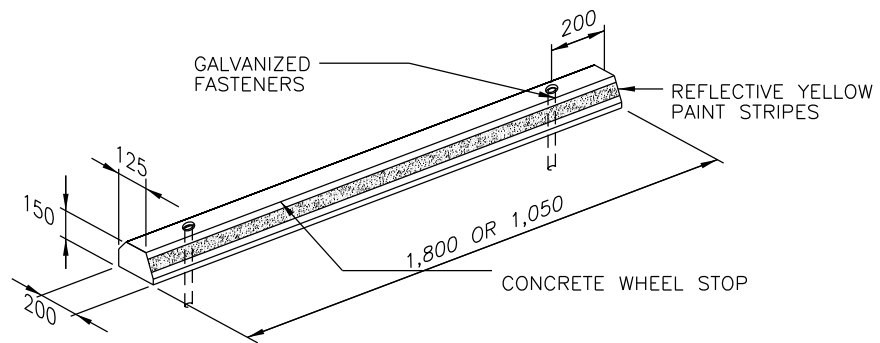
321724.0010

DWG NO.

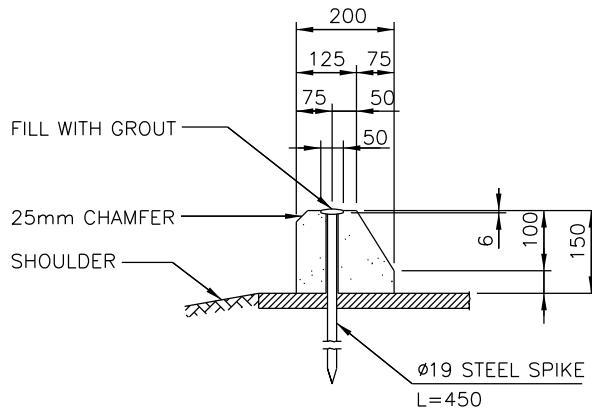
C - 409



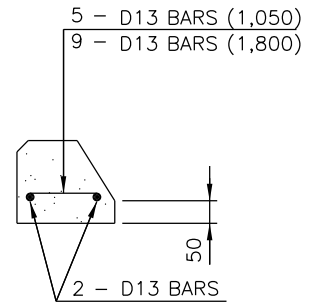
SYNTHETIC TYPE



ISOMETRIC



SECTION - 1



SECTION - 2

CONCRETE TYPE

CAR WHEEL STOP
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

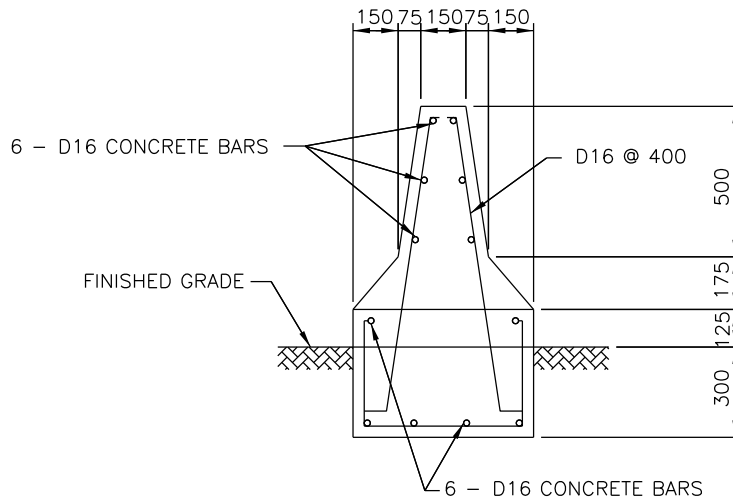
TITLE CAR WHEEL STOPS

OMA SPEC

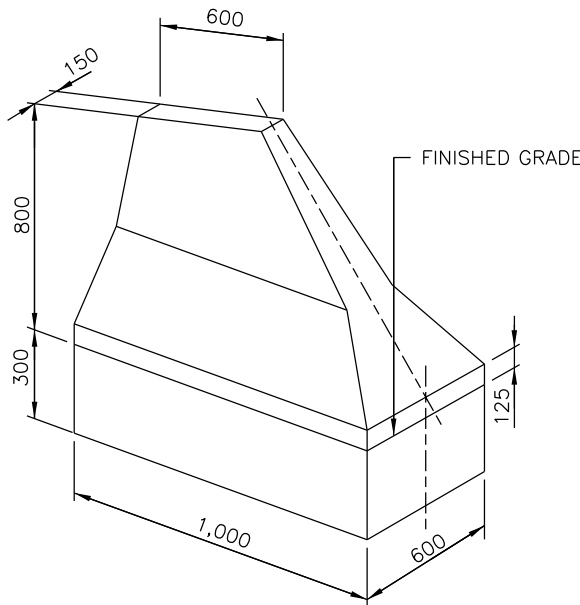
N/A

DWG NO.

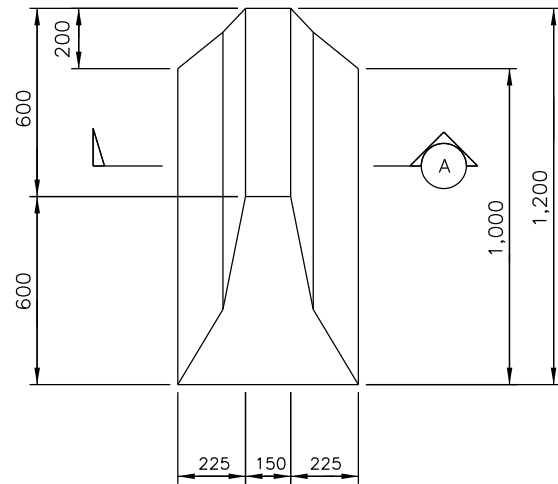
C - 501



(A) ELEVATION



ISOMETRIC

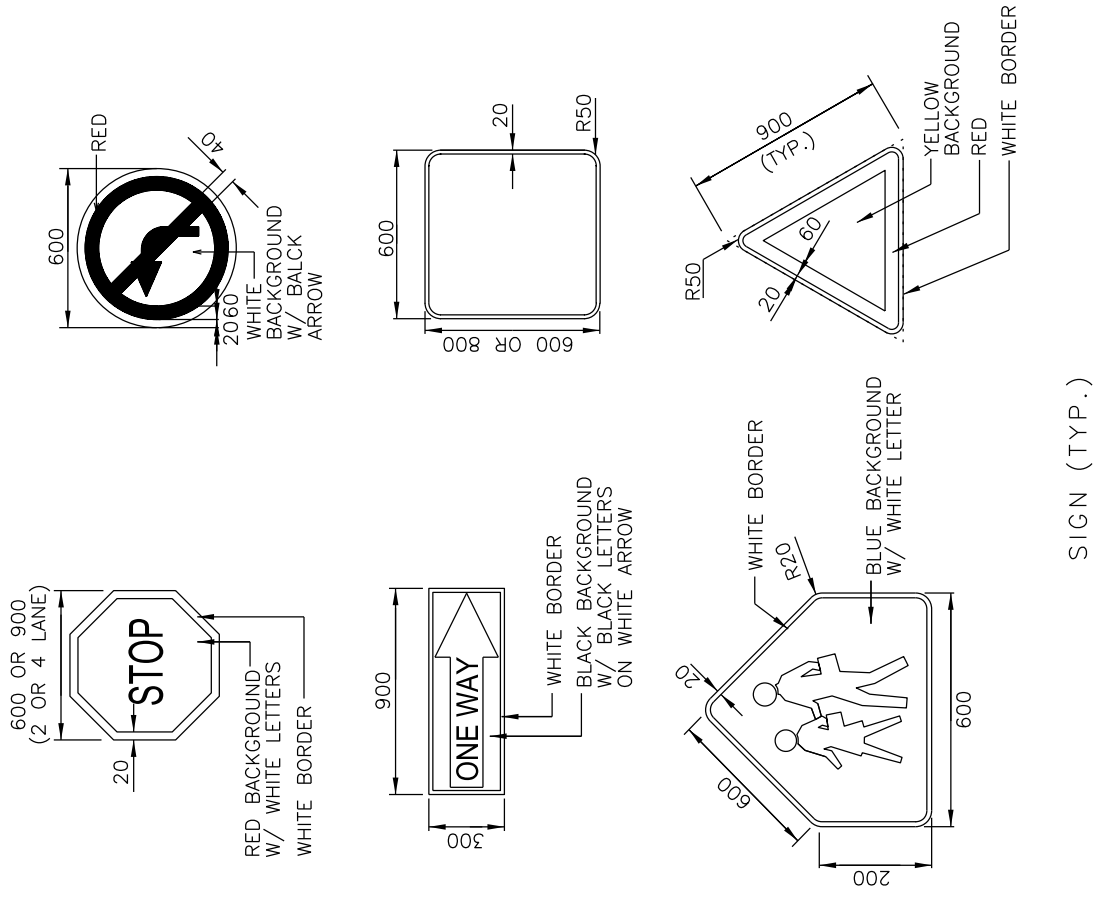


PLAN

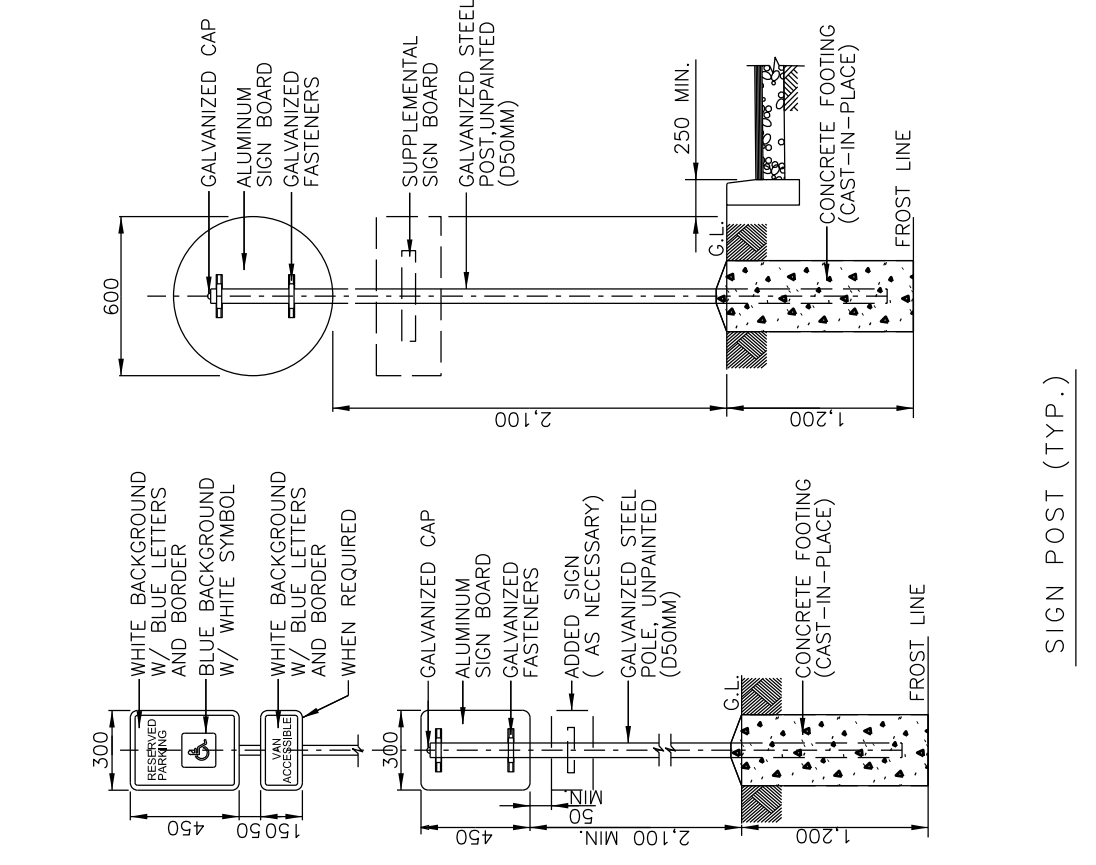
CONCRETE VEHICLE DEFLECTOR
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CONCRETE VEHICLE DEFLECTOR	N/A	C - 502

REV DATE: NOV 2015





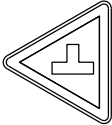


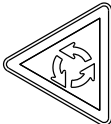
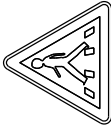












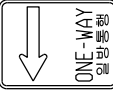









SIGN (TYP.)



SIGN POST (TYP.)

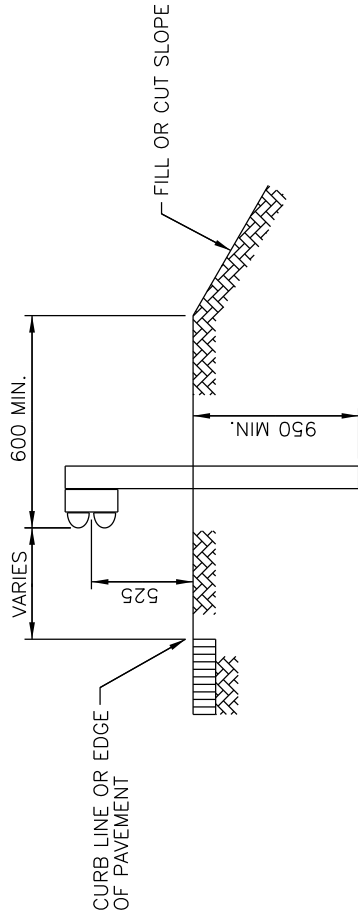
SIGN AND POST DETAILS
NOT TO SCALE

	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	SIGN AND SIGN POST DETAILS	101401	C - 503

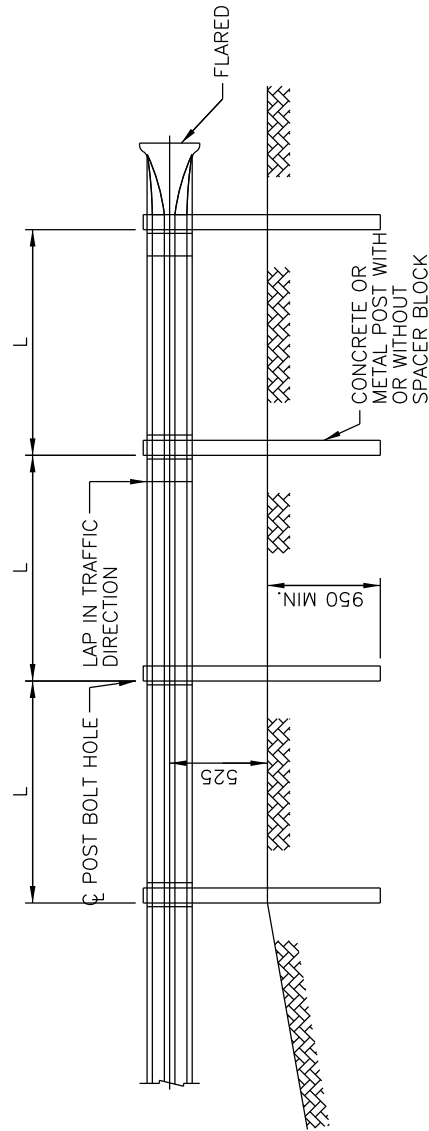
 IMCOM		O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.		
TITLE		MISCELLANEOUS SIGNS		101401	C - 504		
 CROSS INTERSECTION	 RIGHT SIDE ROAD INTERSECTION	 LEFT CURVE	 ROAD WIDTH REDUCED-RIGHT	 TRAFFIC CIRCLE	 PEDESTRIAN CROSSING	 CHILDREN CROSSING DANGER	WARNING SIGN
 NO ENTRY FOR PASSENGER CARS	 DO NOT ENTER	 NO THROUGH TRAFFIC	 YIELD	 NO ENTRY FOR PASSENGER CARS/MOTORCYCLES	 NO RIGHT TURN	 MAXIMUM SPEED LIMIT 50	PROHIBITORY SIGN
 PEDESTRIAN CROSSING	 UNPROTECTED LEFT TURN	 LEFT TURN ONLY	 STRAIGHT OR LEFT TURN	 ONE WAY TRAFFIC LEFT	 TRAFFIC CIRCLE AHEAD	 CHILDREN CROSSING	MANDATORY SIGN
 NO PARKING BETWEEN SIGN	 NO PARKING BETWEEN SIGN	 NO PARKING BETWEEN SIGN	 NO PARKING BETWEEN SIGN	 ROAD CLOSED	 AUTHORIZED VEHICLES ONLY	 TO PARKING	SUPPLEMENTARY SIGN

NOTE :
 SIGNS FOLLOW USFK PAMPHLET 385-2
 (GUIDE TO SAFE DRIVING IN KOREA, DATED 30MAY2007)

MISC. SIGNS
 NOT TO SCALE



TYPICAL SECTION



TYPICAL ELEVATION

- NOTE:
1. L SHALL BE 3,000 OR 1,900 AS DESIGNATED ON PLANS. L SHALL BE 3,000 IF NOT OTHERWISE SPECIFIED.
 2. GUARD RAIL SHALL BE WITH OR WITHOUT SPACER BLOCK AS NOTED ON PLANS. PROVIDE WITHOUT SPACER BLOCK IF NOT NOTED.

STEEL GUARD RAIL TYPE 1
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

STEEL GUARD RAIL TYPE 1(1)

OMA SPEC

347113.2631

DWG NO.

C - 505



O&MA STANDARD DETAILS, KOREA

OMA SPEC

DWG NO.

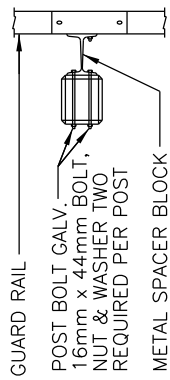
TITLE

STEEL GUARD RAIL TYPE 1(2)

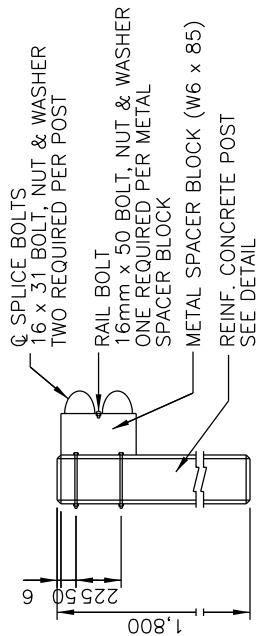
347113.2631

C - 506

REV DATE: NOV 2015



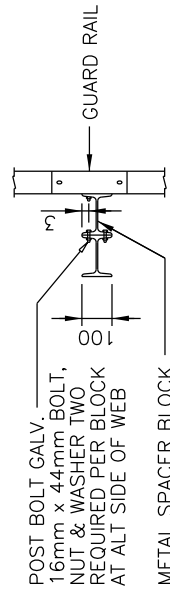
PLAN



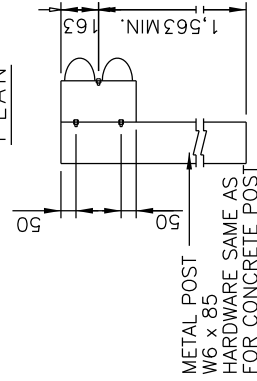
ELEVATION

CONCRETE POST W/ SPACER BLOCK

METAL POST WITH SPACER BLOCK

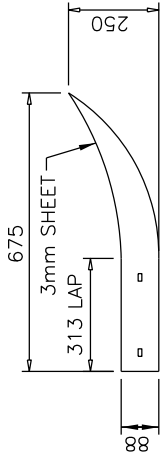


PLAN

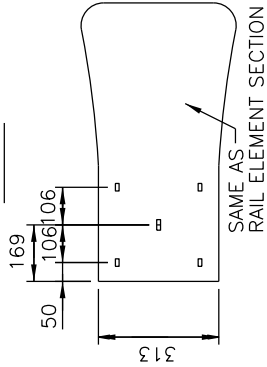


ELEVATION

FLARED END



PLAN

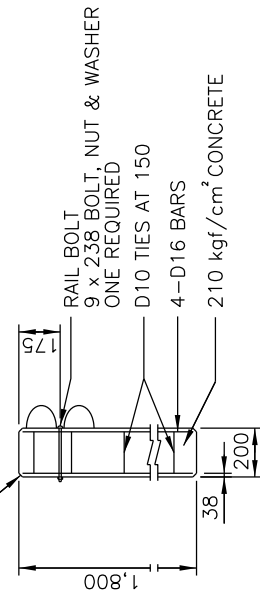


ELEVATION

FLARED END



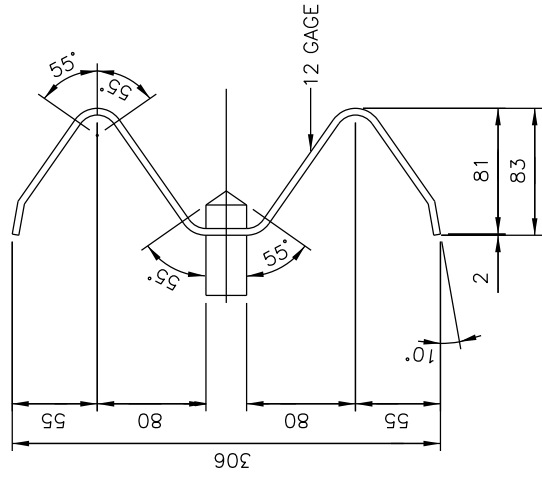
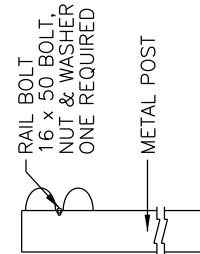
PLAN



ELEVATION

CONCRETE POST W/O SPACER BLOCK

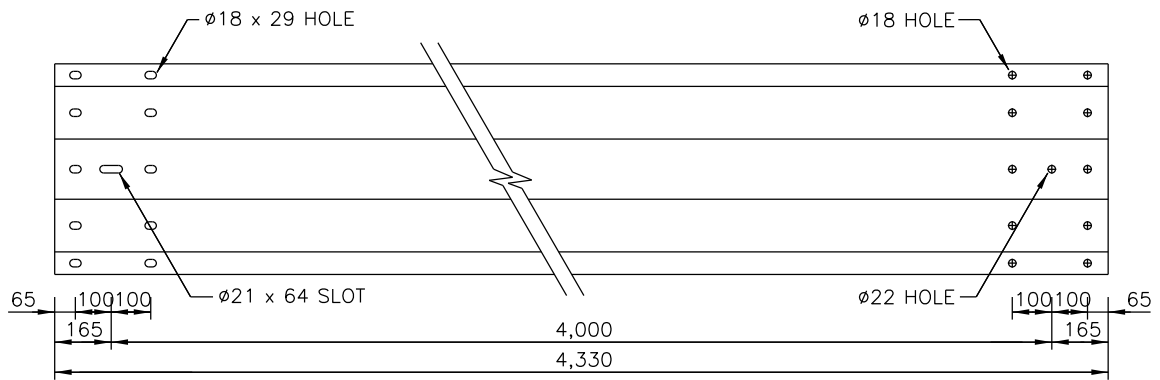
METAL POST W/O SPACER BLOCK



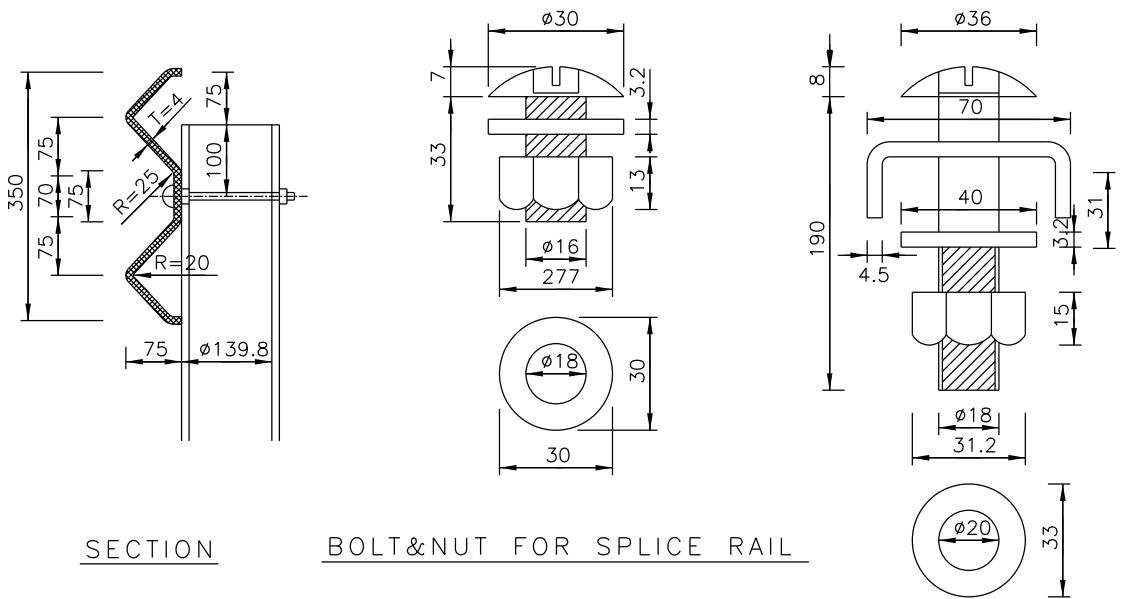
RAIL ELEMENT SECTION

STEEL GUARD RAIL TYPE 1

NOT TO SCALE



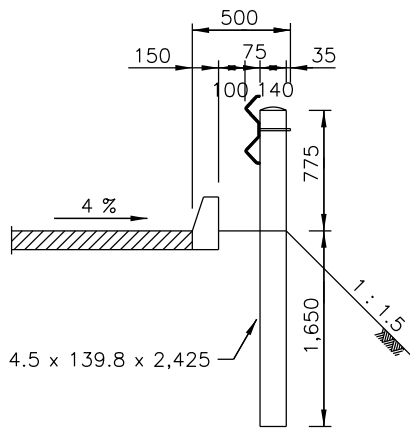
GUARD RAIL



SECTION

BOLT & NUT FOR SPLICE RAIL

CONNECTION BOLT



INSTALLATION DET.

NOTE :

1. DIMENSIONS ARE IN MILLIMETER.
2. ALL MATERIALS SHALL CONFIRM TO THE REQUIREMENTS FROM STANDARD SPECIFICATION FOR CONSTRUCTION OF HIGH WAY PUBLISHED BY MINISTRY OF CONSTRUCT ON AND TRAFFIC KOREA.

NOTE :

DESIGN CRITERIA

1. POST : KS D 3566 CLASS 2 OR APPROVED EQUAL.
2. BOLT, NUT : KS B 1002 AND KS B 1012
3. BRACKET : KS D 3503 CLASS 2 OR APPROVER EQUAL.
4. ALL ABOVE ITEMS SHALL BE GALVANIZED OR PAINTED AS INDICATED ON THE PLAN.

STEEL GUARD RAIL TYPE 2

NOT TO SCALE



IMCOM

O&MA STANDARD DETAILS, KOREA

TITLE

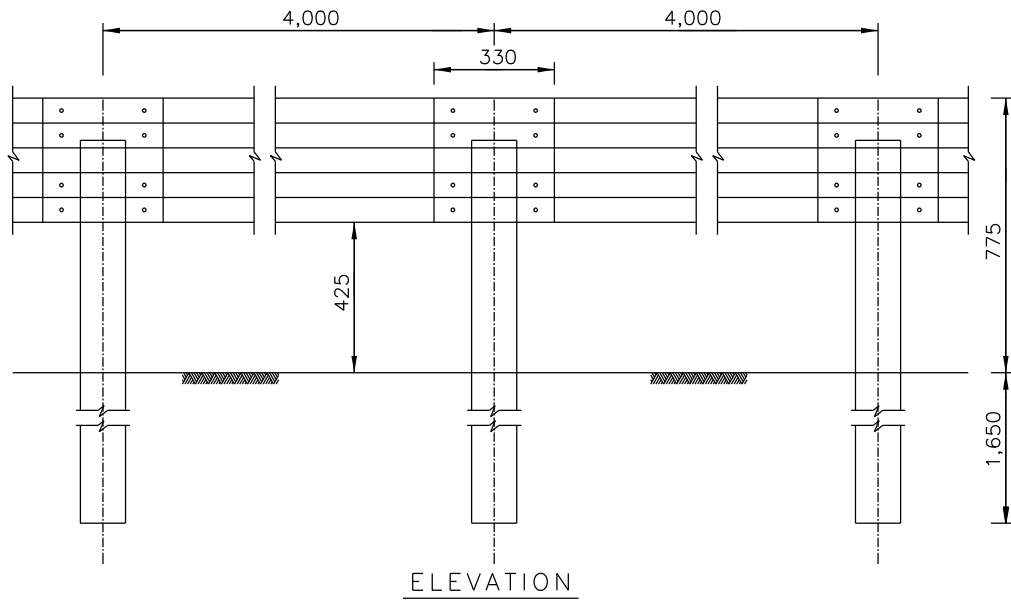
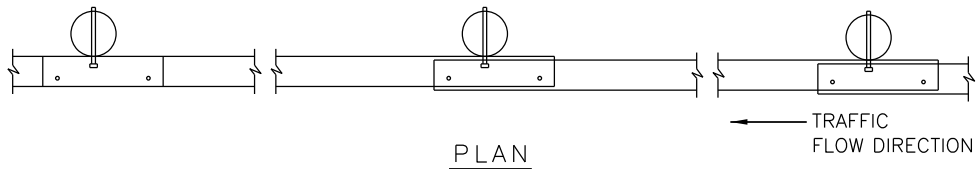
STEEL GUARD RAIL TYPE 2(1)

OMA SPEC

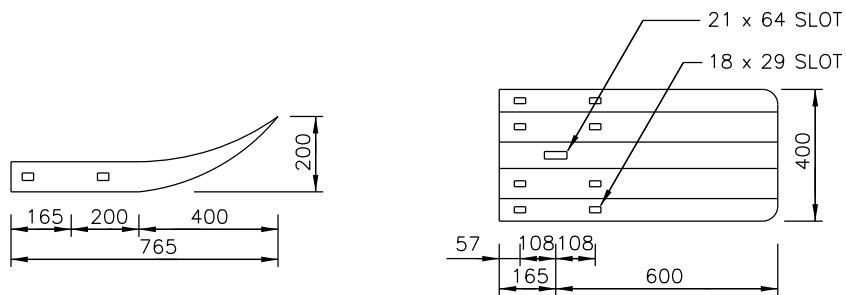
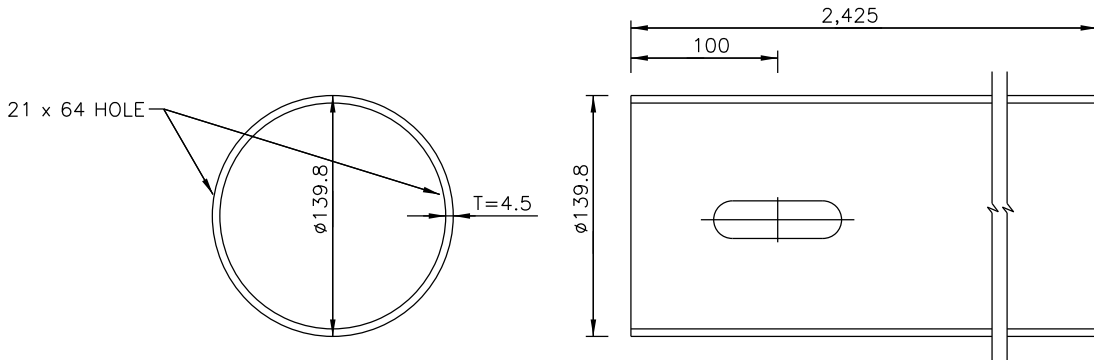
347113.2631

DWG NO.

C - 507



POST

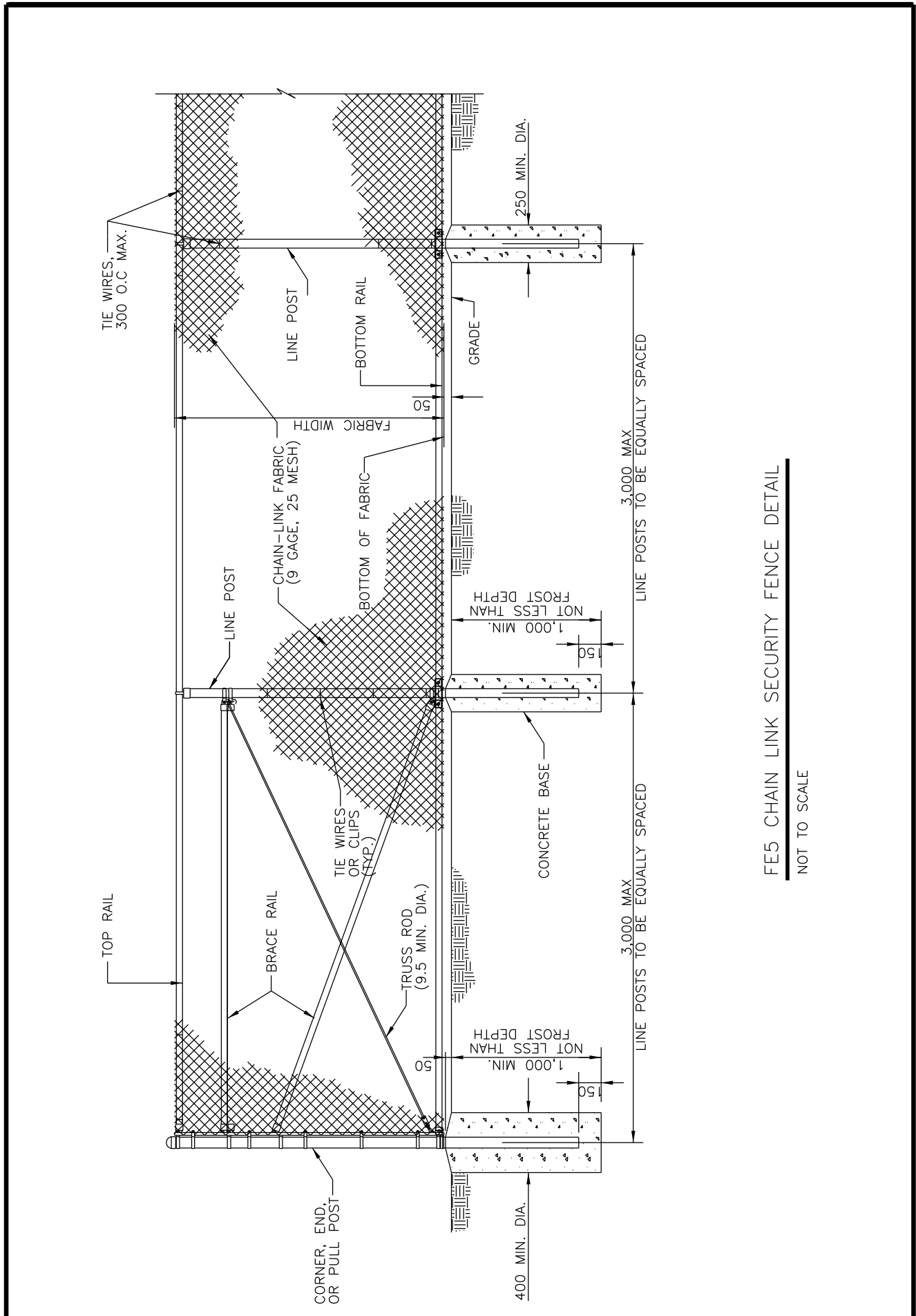


RAIL END

NOTE :
DIMENSIONS ARE IN MILLIMETER.

STEEL GUARD RAIL TYPE 2
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	STEEL GUARD RAIL TYPE 2(2)	347113.2631	C - 508



FE5 CHAIN LINK SECURITY FENCE DETAIL
NOT TO SCALE

	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	FE5 CHAIN LINK SECURITY FENCE DETAILS	323113	C-601 (1/4)



O&MA STANDARD DETAILS, KOREA

TITLE

FE5 CHAIN LINK SECURITY FENCE DETAILS

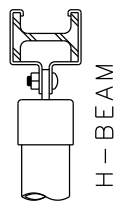
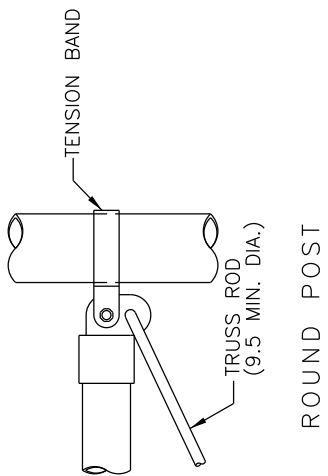
OMA SPEC

323113

DWG NO.

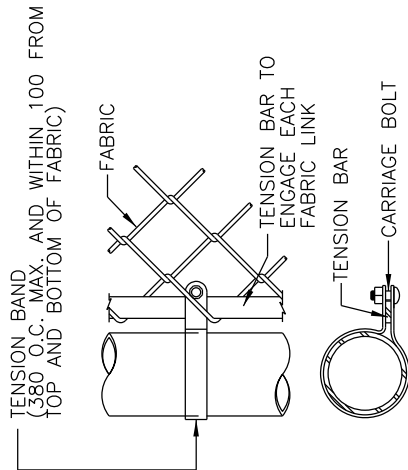
C-601 (2/4)

REV DATE: NOV 2015



BRACE RAIL CLAMP DETAILS

NOT TO SCALE

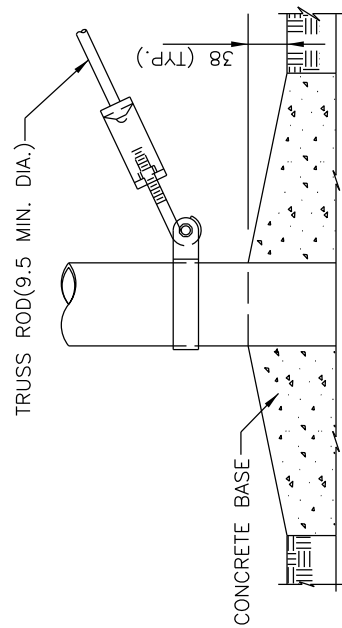


END OR GATE POST DETAIL

NOT TO SCALE

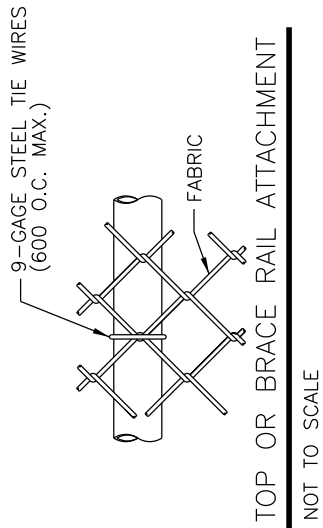
FASTENING DETAILS

NOT TO SCALE

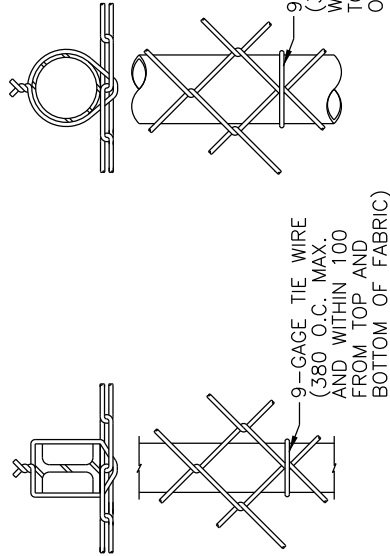


TRUSS ROD AND BAND

NOT TO SCALE

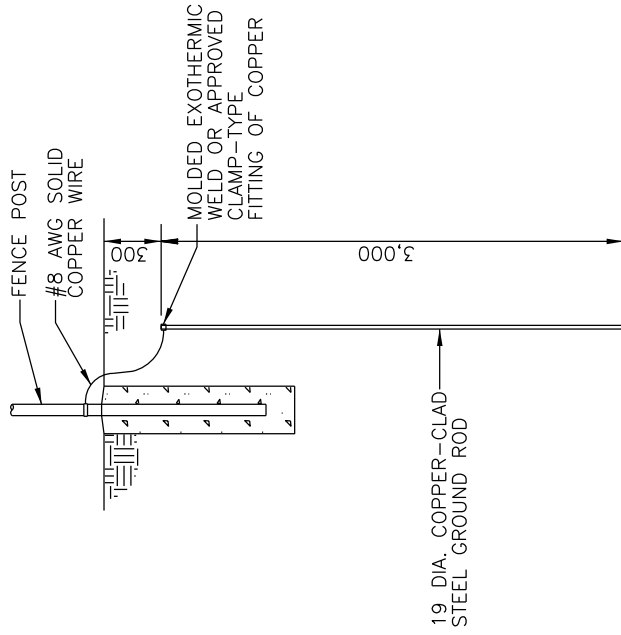


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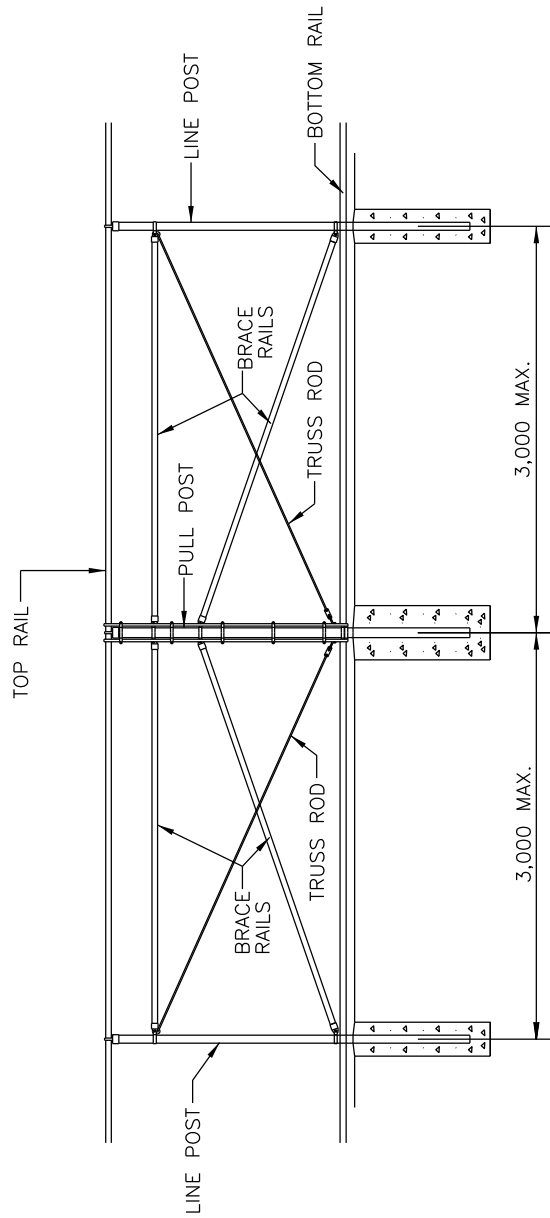


LINE POST ATTACHMENTS

NOT TO SCALE



GROUNDING DETAIL
NOT TO SCALE



BRACE PANEL DETAIL
NOT TO SCALE

NOTE: PROVIDE BRACE PANEL WHENEVER STRAIGHT RUNS EXCEED 150 METERS.



O&MA STANDARD DETAILS, KOREA

TITLE

FE5 CHAIN LINK SECURITY FENCE DETAILS

OMA SPEC

323113

DWG NO.

C-601 (3/4)



O&MA STANDARD DETAILS, KOREA

TITLE

FE5 CHAIN LINK SECURITY FENCE DETAILS

OMA SPEC

323113

DWG NO.

C-601 (4/4)

STEEL POST SCHEDULE

USE AND SECTION	MINIMUM OUTSIDE DIMENSIONS (NOMINAL)		
	FABRIC WIDTH 1,800 OR LESS	FABRIC WIDTH 2,100 TO 2,400	FABRIC WIDTH 2,700 AND OVER
CORNER, END & PULL POSTS			
TUBULAR - ROUND	60 O.D.	73 O.D.	100 O.D.
TUBULAR - SQUARE	50 SQ.	64 SQ.	76 SQ.
C--SECTION (ROLL-FORMED)	89 x 89	89 x 89	_____
LINE POSTS			
TUBULAR - ROUND	48 O.D.	60 O.D.	73 O.D.
H-SECTION	57 x 43	57 x 43	57 x 43
C-SECTION (ROLL-FORMED)	48 x 41	57 x 43	_____
TOP, BOTTOM & BRACE RAILS			
TUBULAR - ROUND		42 O.D.	
TUBULAR - SQUARE		38 SQ.	
H-SECTION		41 x 38	
C-SECTION (ROLL-FORMED)		41 x 38	

NOTES:

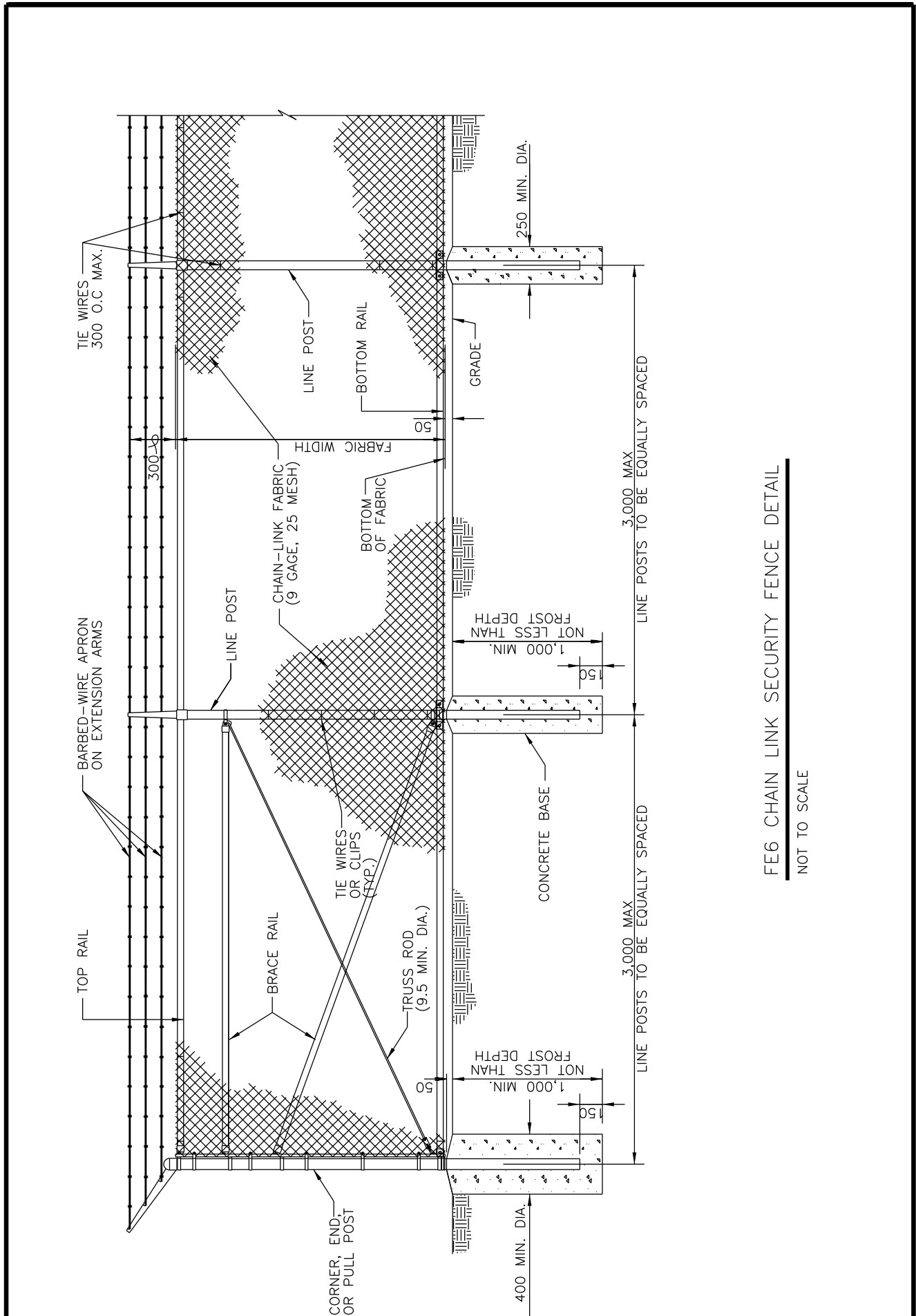
1. DETAILS SHOWN ARE TO CLARIFY REQUIREMENTS AND ARE NOT INTENDED TO LIMIT OTHER TYPES OF FENCE SECTIONS AND METHODS OF INSTALLATION THAT COMPLY WITH THE SPECIFICATIONS.
2. WIRE TIES, RAILS, POSTS, AND BRACES SHALL BE CONSTRUCTED ON THE SECURE SIDE OF THE FENCE ALIGNMENT. CHAIN-LINK FABRIC SHALL BE PLACED ON THE OPPOSITE SIDE OF THE SECURED AREA.
3. C-SECTION POSTS SHALL BE INSTALLED SO THAT THE VOID INSIDE THE POST IS COMPLETELY FILLED WITH CONCRETE UP TO THE TOP OF THE FOUNDATION.

FENCE LEGEND:

- TYPE FE5 - CHAIN-LINK FENCE WITHOUT BARBED-WIRE APRON
 - TYPE FE6 - CHAIN-LINK FENCE W/BARBED-WIRE ON SINGLE OUTRIGGER
 - TYPE FE7 - CHAIN-LINK FENCE W/BARBED-WIRE ON DOUBLE OUTRIGGER
 - TYPE FE8 - CHAIN-LINK FENCE W/BARBED-WIRE AND BARBED-TAPE ON DOUBLE OUTRIGGER
 - TBR - FENCE WITH TOP AND BOTTOM RAILS
- FINAL NUMBER IS FABRIC WIDTH IN MILLIMETER.

EXAMPLES:

- FE6-TBR-1,800 - CHAIN-LINK SECURITY FENCE WITH BARBED-WIRE ON SINGLE OUTRIGGER, TOP AND BOTTOM RAIL, AND 1,800mm FABRIC WIDTH.
- FE5-TBR-2,100 - CHAIN-LINK SECURITY FENCE WITH NO APRON, TOP AND BOTTOM RAIL, AND 2,100mm FABRIC WIDTH.



FE6 CHAIN LINK SECURITY FENCE DETAIL
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	FE6 CHAIN LINK SECURITY FENCE DETAILS	323113	C-602 (1/4)



O&MA STANDARD DETAILS, KOREA

TITLE

FE6 CHAIN LINK SECURITY FENCE DETAILS

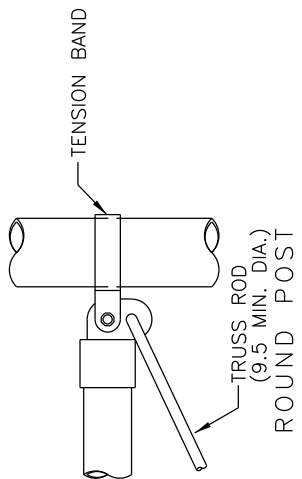
OMA SPEC

323113

DWG NO.

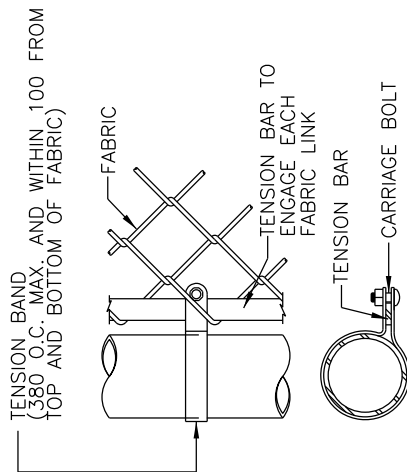
C-602 (2/4)

REV DATE: NOV 2015



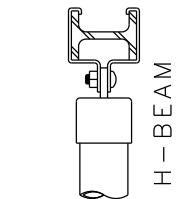
BRACE RAIL CLAMP DETAILS

NOT TO SCALE



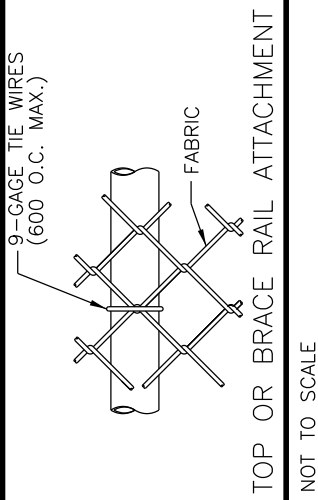
END OR GATE POST DETAIL

NOT TO SCALE



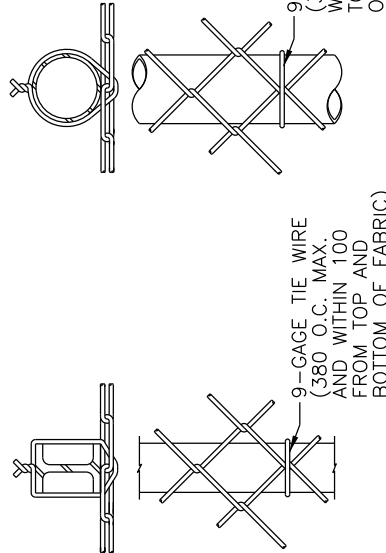
BRACE RAIL CLAMP DETAILS

NOT TO SCALE



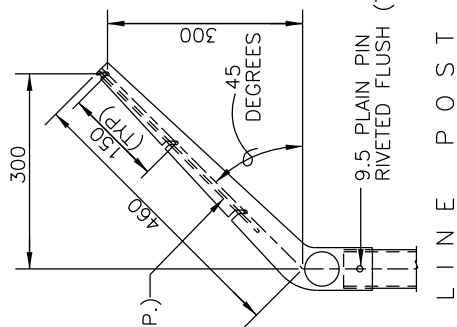
TOP OR BRACE RAIL ATTACHMENT

NOT TO SCALE

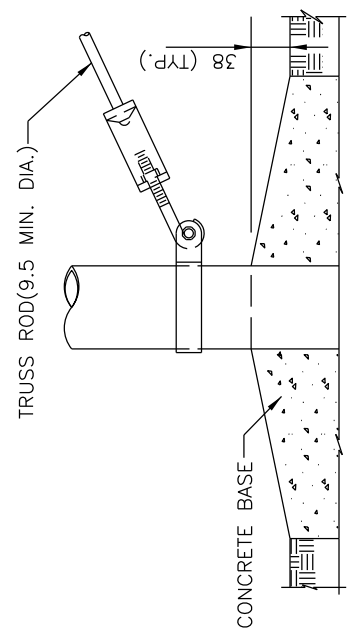


LINE POST ATTACHMENTS

NOT TO SCALE

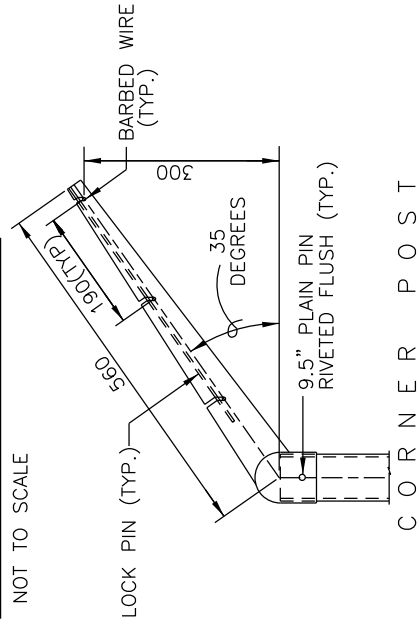


LINE POST



TRUSS ROD AND BAND

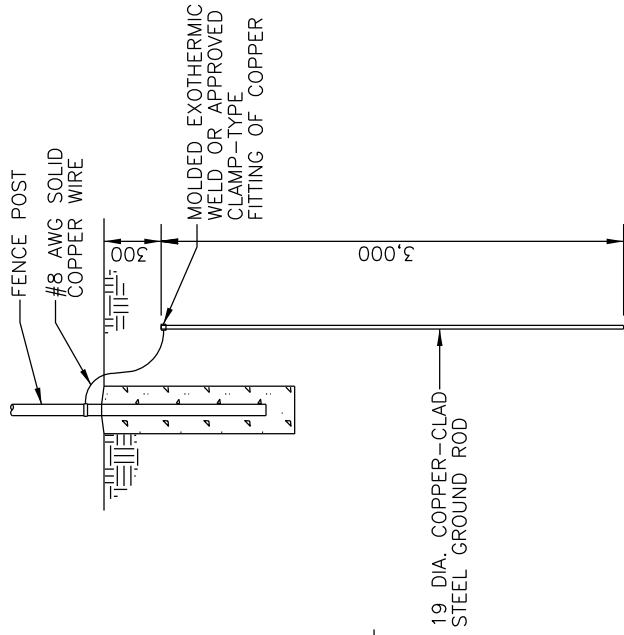
NOT TO SCALE



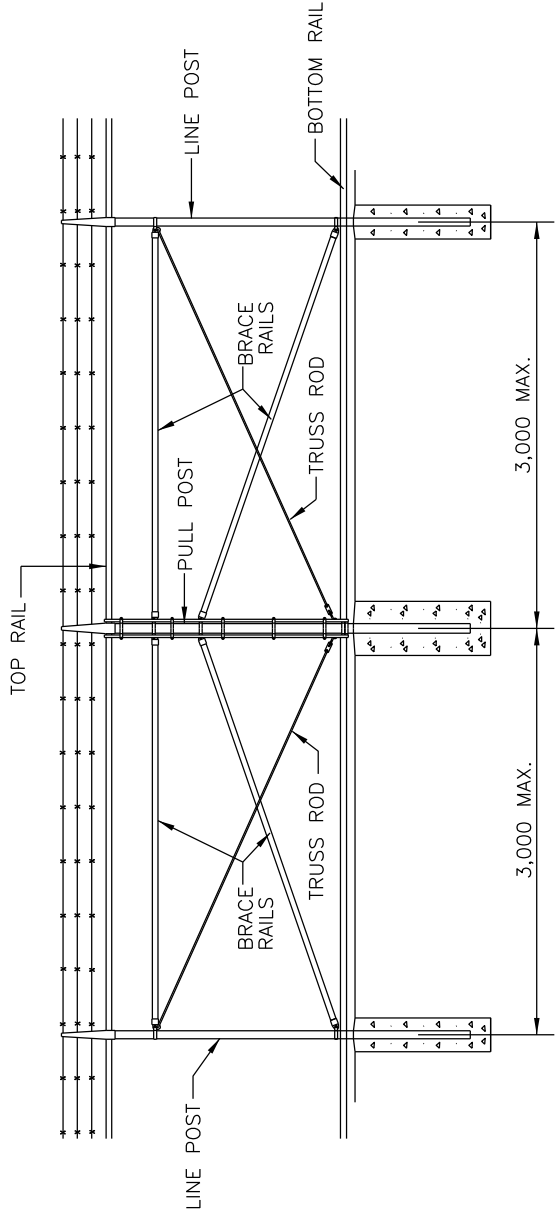
CORNER POST

EXTENSION ARM DETAILS

NOT TO SCALE



GROUNDING DETAIL
NOT TO SCALE



BRACE PANEL DETAIL
NOT TO SCALE

BRACE PANEL DETAIL
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE	FE6 CHAIN LINK SECURITY FENCE DETAILS	OMA SPEC	DWG NO.
		323113	C-602 (3/4)



O&MA STANDARD DETAILS, KOREA

TITLE

FE6 CHAIN LINK SECURITY FENCE DETAILS

OMA SPEC

323113

DWG NO.

C-602 (4/4)

STEEL POST SCHEDULE

USE AND SECTION	MINIMUM OUTSIDE DIMENSIONS (NOMINAL)		
	FABRIC WIDTH 1,800 OR LESS	FABRIC WIDTH 2,100 TO 2,400	FABRIC WIDTH 2,700 AND OVER
CORNER, END & PULL POSTS			
TUBULAR – ROUND	60 O.D.	73 O.D.	100 O.D.
TUBULAR – SQUARE	50 SQ.	64 SQ.	76 SQ.
C–SECTION (ROLL–FORMED)	89 x 89	89 x 89	_____
LINE POSTS			
TUBULAR – ROUND	48 O.D.	60 O.D.	73 O.D.
H–SECTION	57 x 43	57 x 43	57 x 43
C–SECTION (ROLL–FORMED)	48 x 41	57 x 43	_____
TOP, BOTTOM & BRACE RAILS			
TUBULAR – ROUND		42 O.D.	
TUBULAR – SQUARE		38 SQ.	
H–SECTION		41 x 38	
C–SECTION (ROLL–FORMED)		41 x 38	

NOTES:

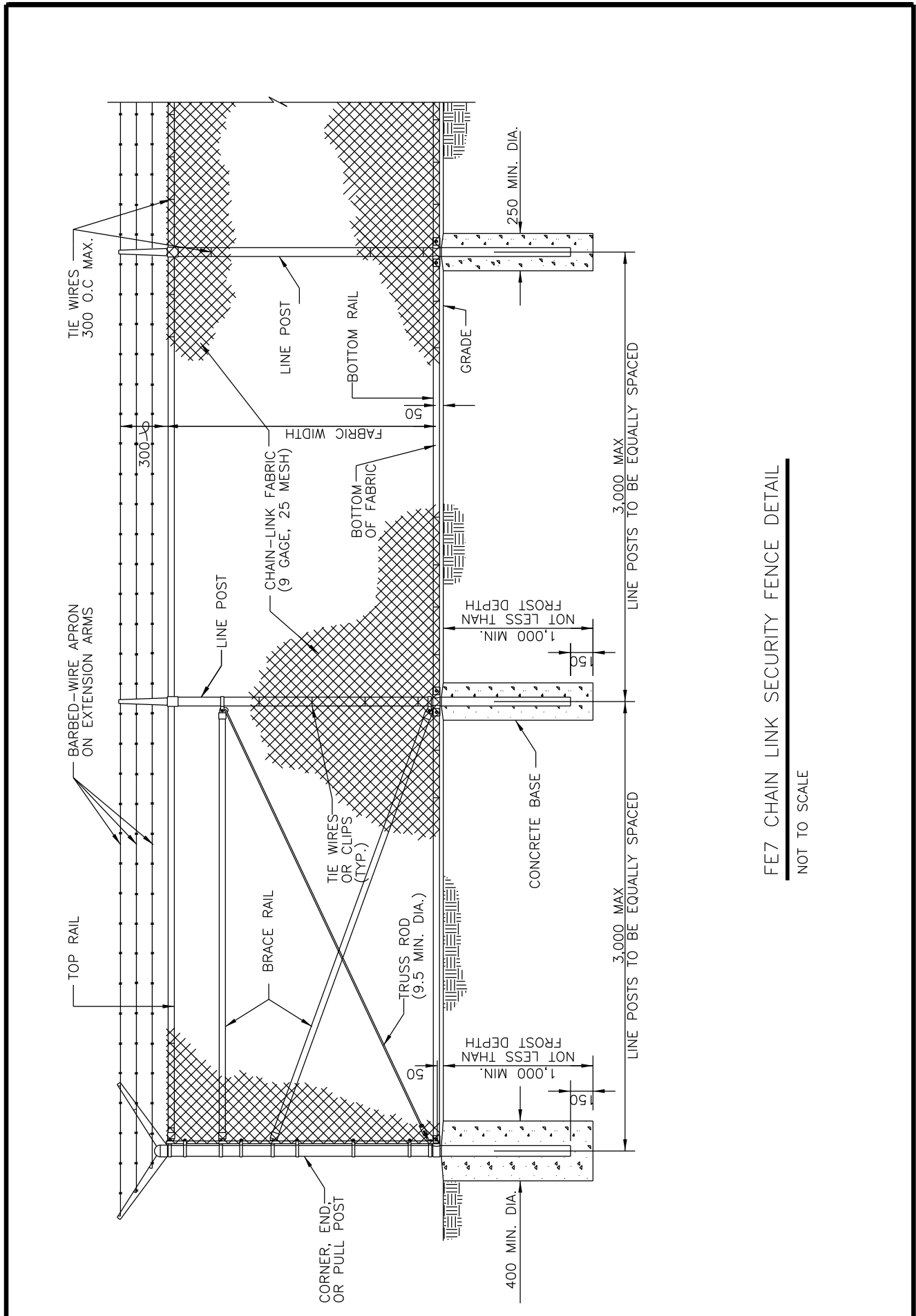
1. DETAILS SHOWN ARE TO CLARIFY REQUIREMENTS AND ARE NOT INTENDED TO LIMIT OTHER TYPES OF FENCE SECTIONS AND METHODS OF INSTALLATION THAT COMPLY WITH THE SPECIFICATIONS.
2. WIRE TIES, RAILS, POSTS, AND BRACES SHALL BE CONSTRUCTED ON THE SECURE SIDE OF THE FENCE ALIGNMENT. CHAIN-LINK FABRIC SHALL BE PLACED ON THE OPPOSITE SIDE OF THE SECURED AREA.
3. UNLESS SPECIFICALLY SHOWN OR SPECIFIED, ALL FE6 FENCE SHALL HAVE APRON EXTENDED OUTWARD FROM THE AREA BEING PROTECTED.
4. C–SECTION POSTS SHALL BE INSTALLED SO THAT THE VOID INSIDE THE POST IS COMPLETELY FILLED WITH CONCRETE UP TO THE TOP OF THE FOUNDATION.

FENCE LEGEND:

- TYPE FE5 – CHAIN-LINK FENCE WITHOUT BARBED-WIRE APRON
 - TYPE FE6 – CHAIN-LINK FENCE W/BARBED-WIRE ON SINGLE OUTRIGGER
 - TYPE FE7 – CHAIN-LINK FENCE W/BARBED-WIRE ON DOUBLE OUTRIGGER
 - TYPE FE8 – CHAIN-LINK FENCE W/BARBED-WIRE AND BARBED-TAPE ON DOUBLE OUTRIGGER
 - TBR – FENCE WITH TOP AND BOTTOM RAILS
- FINAL NUMBER IS FABRIC WIDTH IN MILLIMETER.

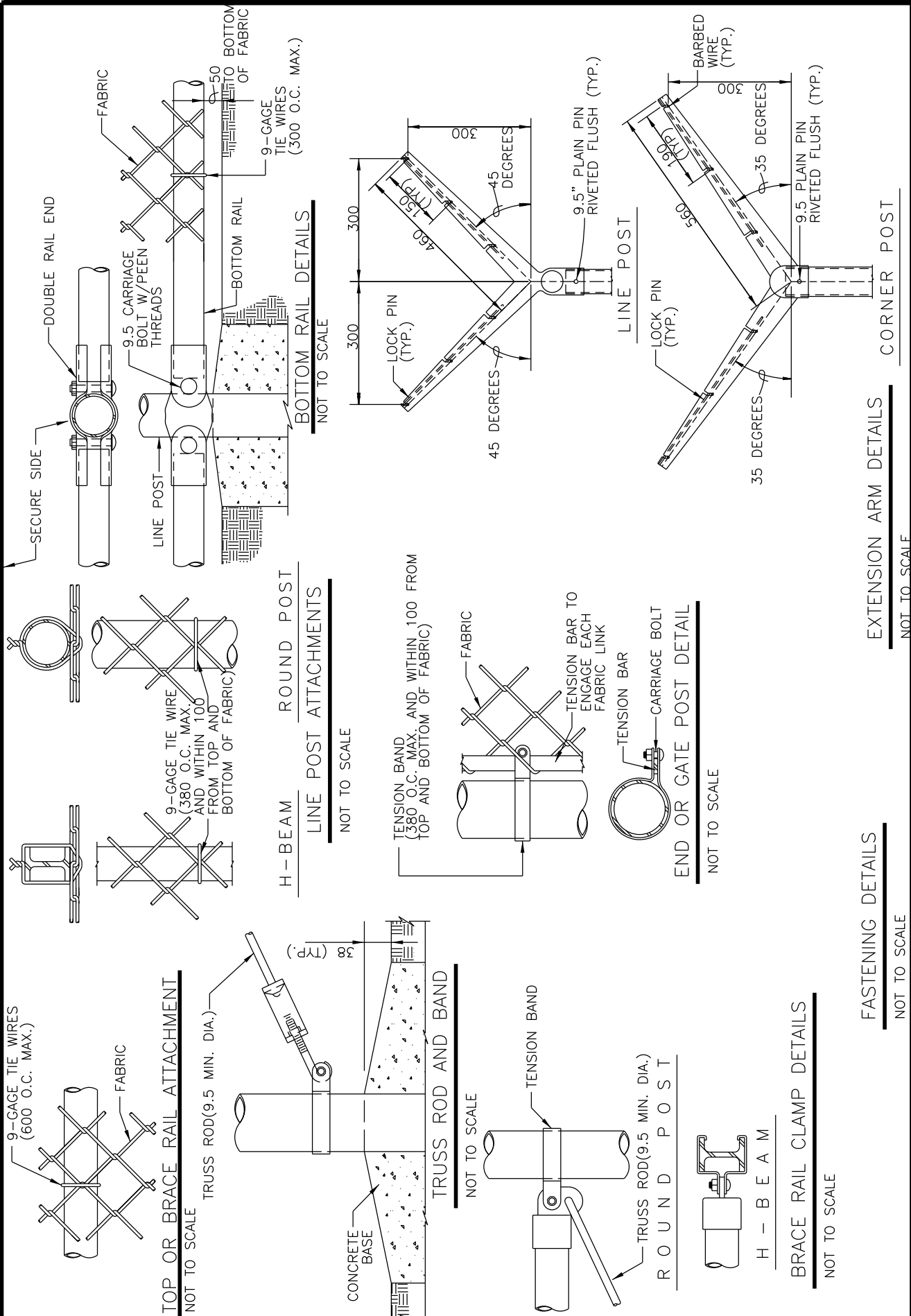
EXAMPLES:

- FE6–TBR–1,800 – CHAIN-LINK SECURITY FENCE WITH BARBED-WIRE ON SINGLE OUTRIGGER, TOP AND BOTTOM RAIL, AND 1,800mm FABRIC WIDTH.
- FE5–TBR–2,100 – CHAIN-LINK SECURITY FENCE WITH NO APRON, TOP AND BOTTOM RAIL, AND 2,100mm FABRIC WIDTH.

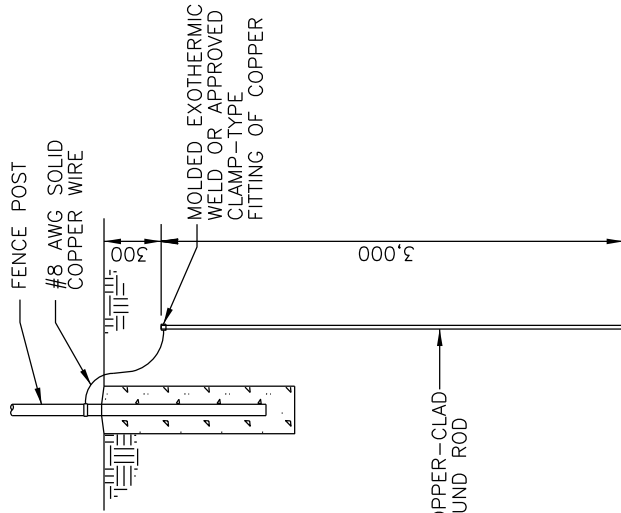


FE7 CHAIN LINK SECURITY FENCE DETAIL
NOT TO SCALE

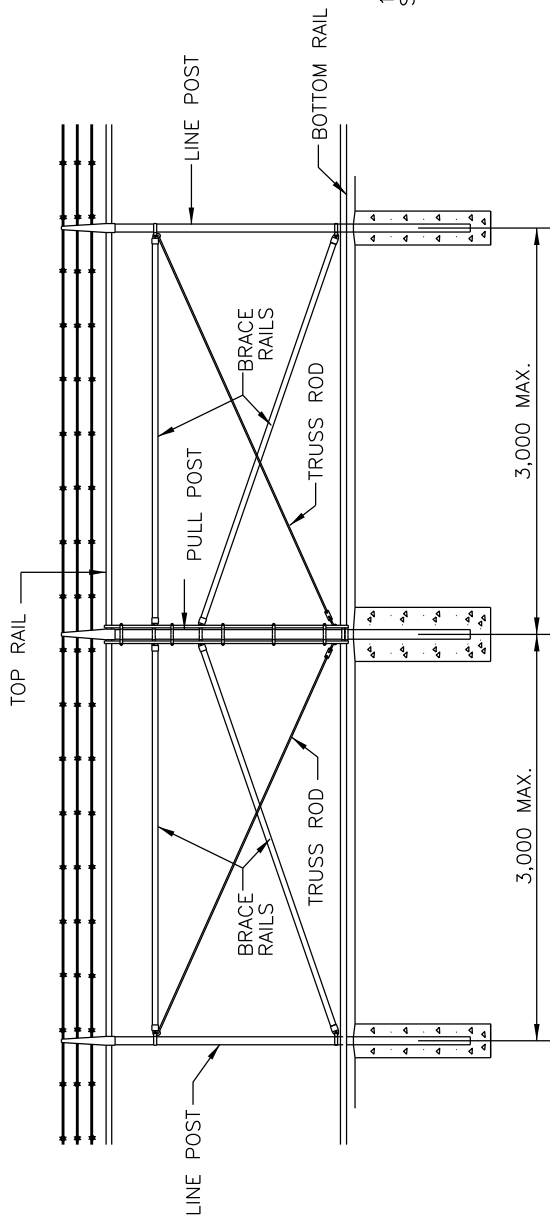
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	FE7 CHAIN LINK SECURITY FENCE DETAILS	323113	C-603 (1/4)



	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	FE7 CHAIN LINK SECURITY FENCE DETAILS	323113	C-603 (2/4)



GROUNDING DETAIL
NOT TO SCALE



BRACE PANEL DETAIL
NOT TO SCALE

BRACE PANEL DETAIL
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

FE7 CHAIN LINK SECURITY FENCE DETAILS

OMA SPEC

323113

DWG NO.

C-603 (3/4)



O&MA STANDARD DETAILS, KOREA

TITLE

FE7 CHAIN LINK SECURITY FENCE DETAILS

OMA SPEC

323113

DWG NO.

C-603 (4/4)

STEEL POST SCHEDULE

USE AND SECTION	MINIMUM OUTSIDE DIMENSIONS (NOMINAL)		
	FABRIC WIDTH 1,800 OR LESS	FABRIC WIDTH 2,100 TO 2,400	FABRIC WIDTH 2,700 AND OVER
CORNER, END & PULL POSTS			
TUBULAR – ROUND	60 O.D.	73 O.D.	100 O.D.
TUBULAR – SQUARE	50 SQ.	64 SQ.	76 SQ.
C–SECTION (ROLL–FORMED)	89 x 89	89 x 89	_____
LINE POSTS			
TUBULAR – ROUND	48 O.D.	60 O.D.	73 O.D.
H–SECTION	57 x 43	57 x 43	57 x 43
C–SECTION (ROLL–FORMED)	48 x 41	57 x 43	_____
TOP, BOTTOM & BRACE RAILS			
TUBULAR – ROUND		42 O.D.	
TUBULAR – SQUARE		38 SQ.	
H–SECTION		41 x 38	
C–SECTION (ROLL–FORMED)		41 x 38	

NOTES:

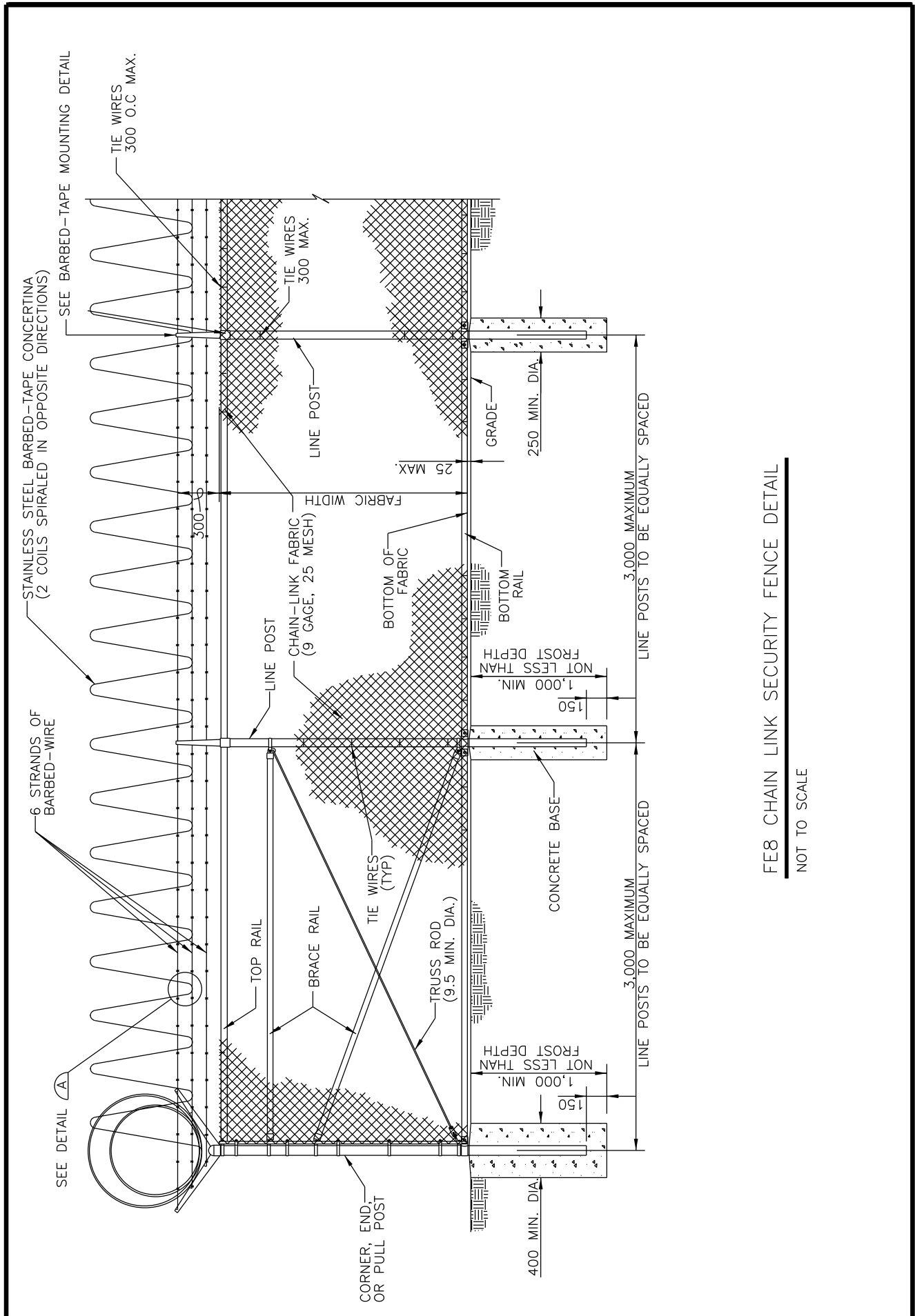
1. DETAILS SHOWN ARE TO CLARIFY REQUIREMENTS AND ARE NOT INTENDED TO LIMIT OTHER TYPES OF FENCE SECTIONS AND METHODS OF INSTALLATION THAT COMPLY WITH THE SPECIFICATIONS.
2. WIRE TIES, RAILS, POSTS, AND BRACES SHALL BE CONSTRUCTED ON THE SECURE SIDE OF THE FENCE ALIGNMENT. CHAIN-LINK FABRIC SHALL BE PLACED ON THE OPPOSITE SIDE OF THE SECURED AREA.
3. C-SECTION POSTS SHALL BE INSTALLED SO THAT THE VOID INSIDE THE POST IS COMPLETELY FILLED WITH CONCRETE UP TO THE TOP OF THE FOUNDATION.
4. BOTTOM RAIL SHALL BE ATTACHED TO DOUBLE RAIL ENDS USING 9.5 CARRIAGE BOLTS AS SHOWN.

FENCE LEGEND:

- TYPE FE5 – CHAIN-LINK FENCE WITHOUT BARBED-WIRE APRON
 TYPE FE6 – CHAIN-LINK FENCE W/BARBED-WIRE ON SINGLE OUTRIGGER
 TYPE FE7 – CHAIN-LINK FENCE W/BARBED-WIRE ON DOUBLE OUTRIGGER
 TYPE FE8 – CHAIN-LINK FENCE W/BARBED-WIRE AND BARBED-TAPE ON DOUBLE OUTRIGGER
 TBR – FENCE WITH TOP AND BOTTOM RAILS
 FINAL NUMBER IS FABRIC WIDTH IN MILLIMETER.

EXAMPLES:

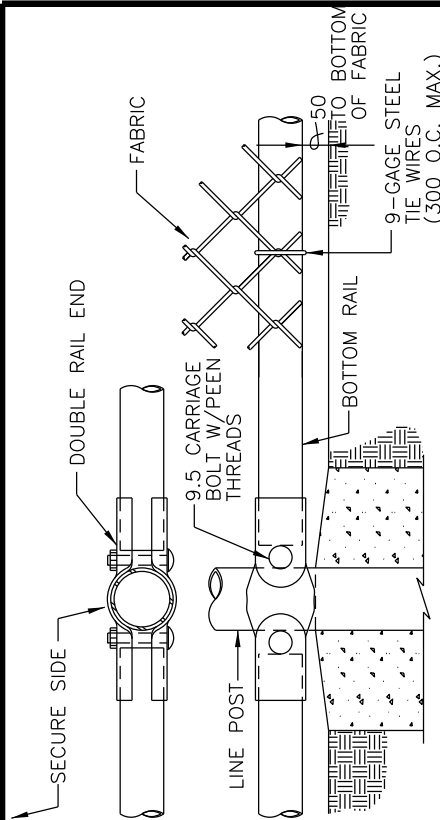
- FE6-TBR-1,800 – CHAIN-LINK SECURITY FENCE WITH BARBED-WIRE ON SINGLE OUTRIGGER, TOP AND BOTTOM RAIL, AND 1,800mm FABRIC WIDTH.
 FE5-TBR-2,100 – CHAIN-LINK SECURITY FENCE WITH NO APRON, TOP AND BOTTOM RAIL, AND 2,100mm FABRIC WIDTH.



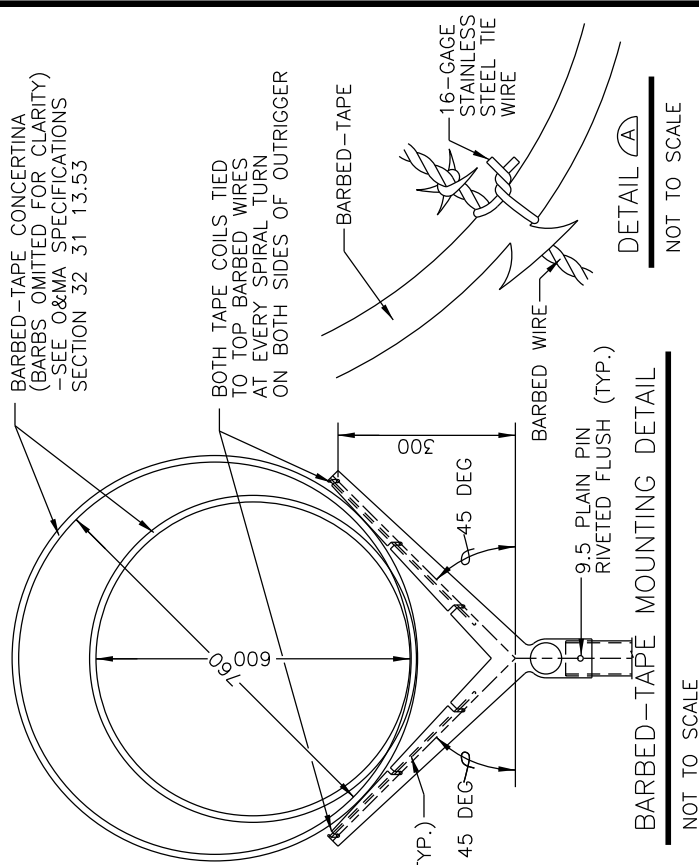
FE8 CHAIN LINK SECURITY FENCE DETAIL

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	FE8 CHAIN LINK SECURITY FENCE DETAILS	323113	C-604 (1/4)

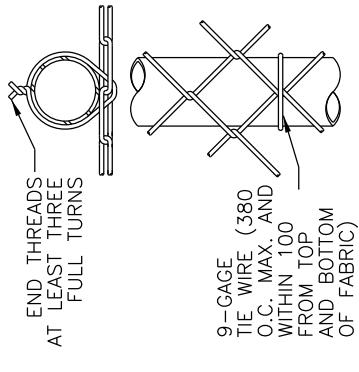


BOTTOM RAIL DETAILS
NOT TO SCALE



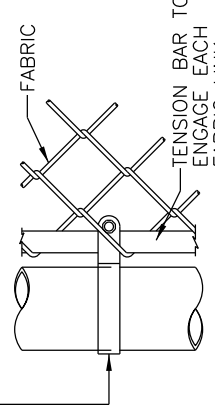
DETAIL
NOT TO SCALE

BARBED-TAPE MOUNTING DETAIL
NOT TO SCALE

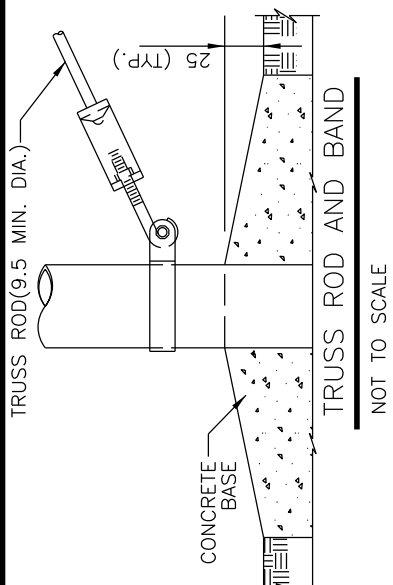


LINE POST ATTACHMENTS
NOT TO SCALE

TENSION BAND (380 O.C. MAX. AND WITHIN 100 FROM TOP AND BOTTOM OF FABRIC)

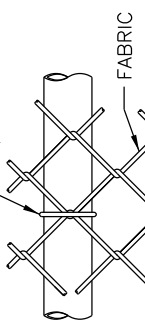


END OR GATE POST DETAIL
NOT TO SCALE

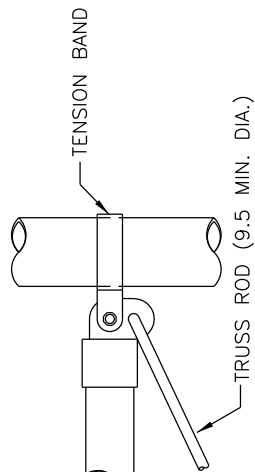


NOT TO SCALE

9-GAGE TIE WIRES (600 O.C. MAX.)



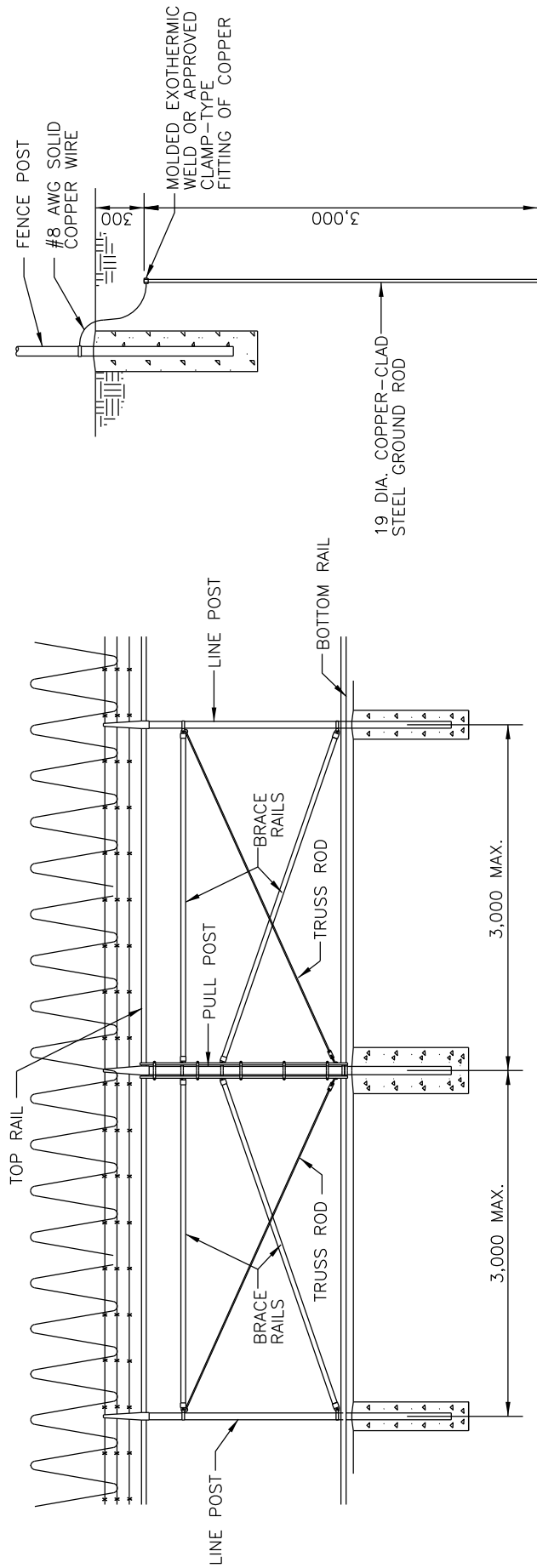
TOP OR BRACE RAIL ATTACHMENT
NOT TO SCALE



BRACE RAIL CLAMP DETAILS
NOT TO SCALE

FASTENING DETAILS
NOT TO SCALE

	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	FE8 CHAIN LINK SECURITY FENCE DETAILS	323113	C-604 (2/4)



NOTE:
 PROVIDE BRACE PANEL WHENEVER
 STRAIGHT RUNS EXCEED 150 METERS.

BRACE PANEL DETAIL
 NOT TO SCALE

GROUNDING DETAIL
 NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

FE8 CHAIN LINK SECURITY FENCE DETAILS

OMA SPEC

323113

DWG NO.

C-604 (3/4)



O&MA STANDARD DETAILS, KOREA

TITLE

FE8 CHAIN LINK SECURITY FENCE DETAILS

OMA SPEC

323113

DWG NO.

C-604 (4/4)

STEEL POST SCHEDULE

USE AND SECTION	MINIMUM OUTSIDE DIMENSIONS (NOMINAL)		
	FABRIC WIDTH 1,800 OR LESS	FABRIC WIDTH 2,100 TO 2,400	FABRIC WIDTH 2,700 AND OVER
CORNER, END & PULL POSTS			
TUBULAR – ROUND	60 O.D.	73 O.D.	100 O.D.
TUBULAR – SQUARE	50 SQ.	64 SQ.	76 SQ.
C-SECTION (ROLL-FORMED)	89 x 89	89 x 89	_____
LINE POSTS			
TUBULAR – ROUND	48 O.D.	60 O.D.	73 O.D.
H-SECTION	57 x 43	57 x 43	57 x 43
C-SECTION (ROLL-FORMED)	48 x 41	57 x 43	_____
TOP, BOTTOM & BRACE RAILS			
TUBULAR – ROUND		42 O.D.	
TUBULAR – SQUARE		38 SQ.	
H-SECTION		41 x 38	
C-SECTION (ROLL-FORMED)		41 x 38	

NOTES:

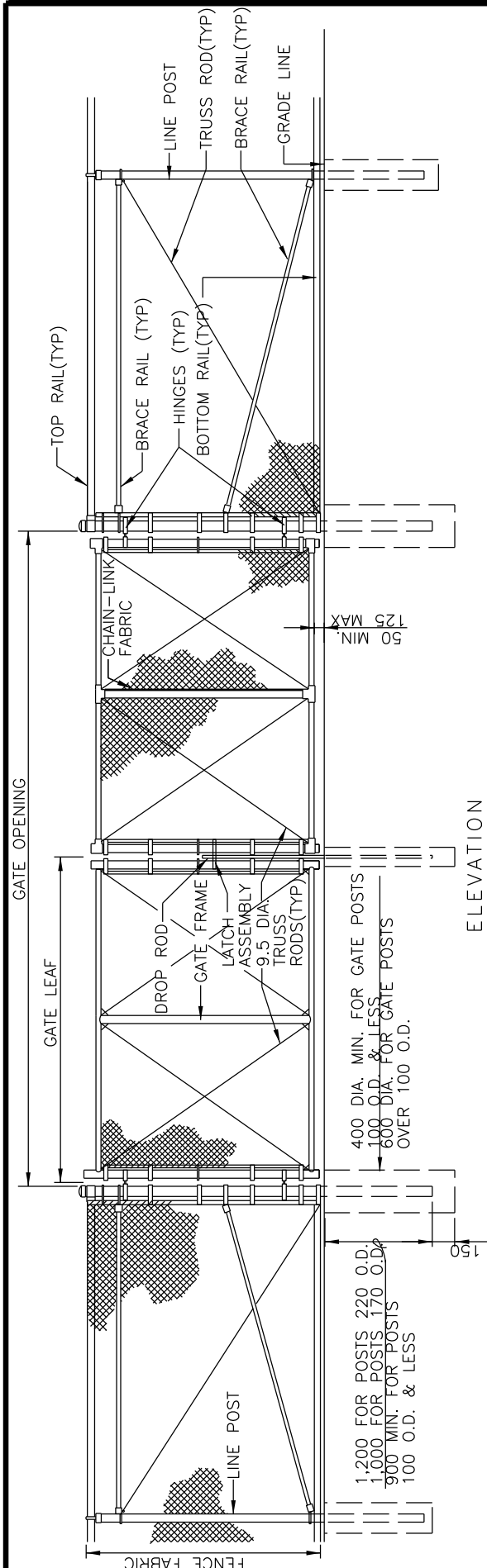
1. DETAILS SHOWN ARE TO CLARIFY REQUIREMENTS AND ARE NOT INTENDED TO LIMIT OTHER TYPES OF FENCE SECTIONS AND METHODS OF INSTALLATION THAT COMPLY WITH THE SPECIFICATIONS.
2. WIRE TIES, RAILS, POSTS, AND BRACES SHALL BE CONSTRUCTED ON THE SECURE SIDE OF THE FENCE ALIGNMENT. CHAIN-LINK FABRIC SHALL BE PLACED ON THE OPPOSITE SIDE OF THE SECURED AREA.
3. ONLY 9-GAGE GALVANIZED STEEL TIE WIRES SHALL BE USED FOR FASTENING THE FENCE FABRIC TO FENCE POSTS AND RAILS.
4. BOTTOM RAIL SHALL BE ATTACHED TO DOUBLE RAIL ENDS USING 9.5 CARRIAGE BOLTS AS SHOWN. ADDITIONAL HOLES SHALL BE DRILLED THROUGH THE BOTTOM RAIL ENDS TO INSURE THAT CARRIAGE BOLTS PASS THROUGH THE BOTTOM RAIL AS SHOWN.

FENCE LEGEND:

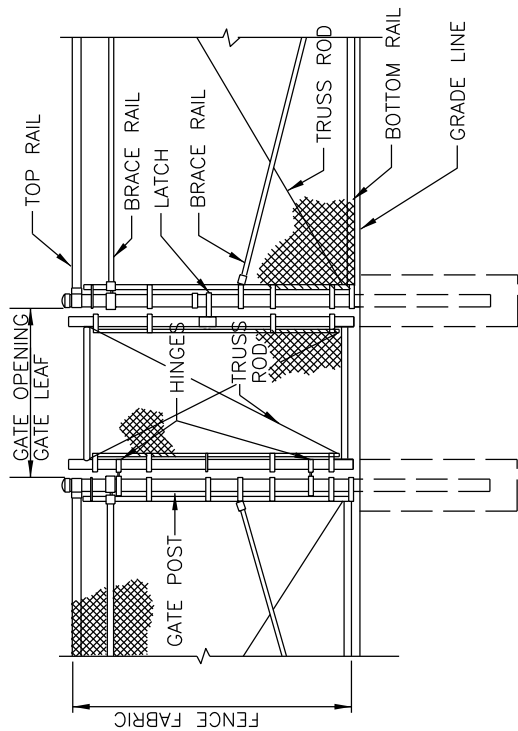
- TYPE FE5 – CHAIN-LINK FENCE WITHOUT BARBED-WIRE APRON
 TYPE FE6 – CHAIN-LINK FENCE W/BARBED-WIRE ON SINGLE OUTRIGGER
 TYPE FE7 – CHAIN-LINK FENCE W/BARBED-WIRE ON DOUBLE OUTRIGGER
 TYPE FE8 – CHAIN-LINK FENCE W/BARBED-WIRE AND BARBED-TAPE ON DOUBLE OUTRIGGER
 TBR – FENCE WITH TOP AND BOTTOM RAILS
 FINAL NUMBER IS FABRIC WIDTH IN MILLIMETER.

EXAMPLES:

- FE6-TBR-1,800 – CHAIN-LINK SECURITY FENCE WITH BARBED-WIRE ON SINGLE OUTRIGGER, TOP AND BOTTOM RAIL, AND 1,800mm FABRIC WIDTH.
 FE5-TBR-2,100 – CHAIN-LINK SECURITY FENCE WITH NO APRON, TOP AND BOTTOM RAIL, AND 2,100mm FABRIC WIDTH.



ELEVATION
DOUBLE SWING GATE (TYPE FE-5 FENCE)
NOT TO SCALE



PERSONNEL GATE, TYPE FE-5 FENCE
NOT TO SCALE

NOTES:

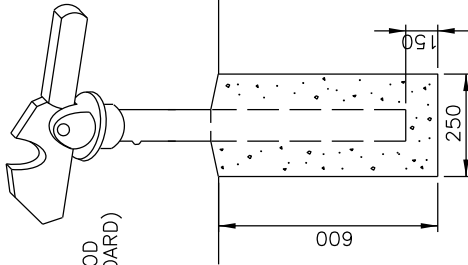
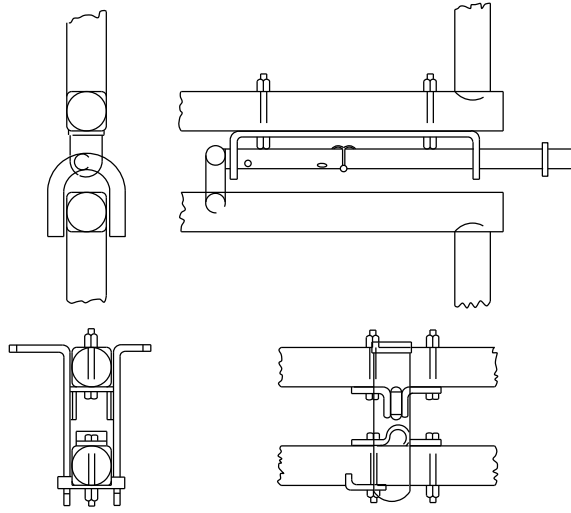
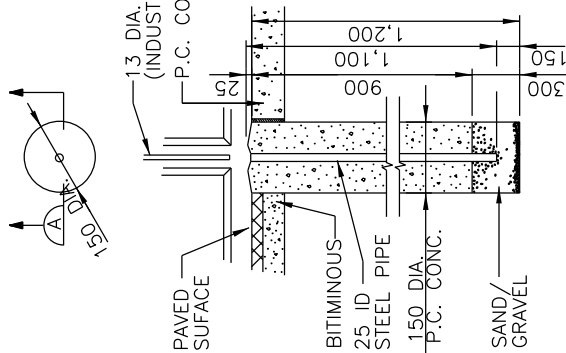
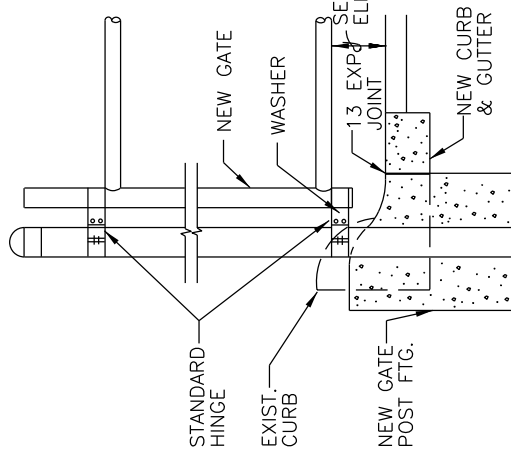
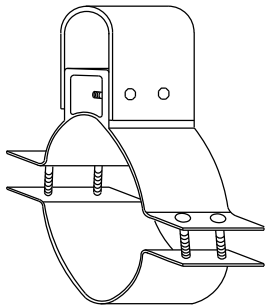
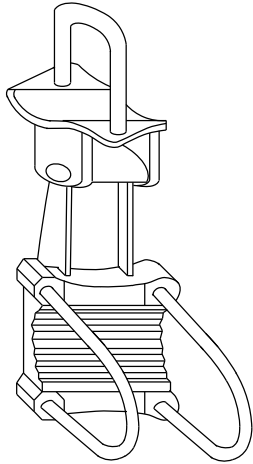
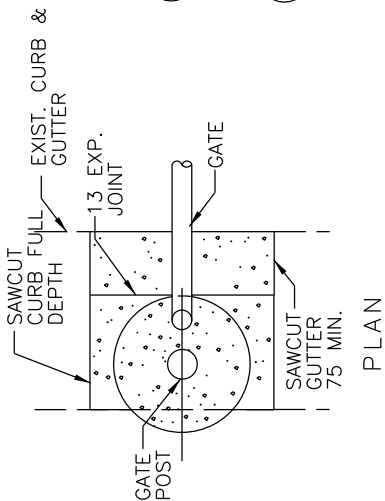
1. DETAILS SHOWN ARE TO CLARIFY REQUIREMENTS AND ARE NOT INTENDED TO LIMIT OTHER TYPE OF FENCE SECTIONS AND METHODS OF INSTALLATION THAT COMPLY WITH THE SPECIFICATIONS.
2. SWING GATES SHALL BE CONSTRUCTED WITH DROP RODS, PADLOCKS, LATCH ASSEMBLY AND GATE KEEPERS EXCEPT AS NOTED.
3. ALL GATE FRAMES SHALL MEET THE MINIMUM REQUIREMENTS OF ASTM F900 48 NOMINAL (ROUND) OR 50 NOMINAL (SQUARE). GATE FRAMES SHALL BE OF WELDED CONSTRUCTION OR SHALL BE ASSEMBLED USING HEAVY FITTINGS. AT CONTRACTOR'S OPTION A WELDED HORIZONTAL BRACE MAY BE USED IN LIEU OF TRUSS RODS TO BRACE ALL-WELDED GATE FRAMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER RIGID CONSTRUCTION OF ALL GATES SUPPLIED.
4. GATES SHALL BE DESIGNATED AS FOLLOWS:

FENCE TYPE	-	FE5, FE6, ETC.
FENCE HEIGHT	-	MILLIMETERS
FENCE TYPE	-	SO (SINGLE)
OPENING	-	DO (DOUBLE) HINGE
	-	RA (STANDARD)
	-	HO (OFFSET)
	-	MILLIMETERS (CLEAR OPENING BETWEEN GATE POSTS)

EXAMPLES: FE6-2,100-DO-RA-7,200
FE5-1,800-SO-HO-1,800

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	FE5 CHAIN LINK SECURITY FENCE GATE DETAILS	323113	C-605 (1/2)

GATE POST SCHEDULE	
GATE LEAF WIDTH (NOMINAL)	OUTSIDE DIMENSION (NOMINAL)
1,800 OR LESS	73 OD 64 SQ
MORE THAN 1,800 TO 3,600	100 OD
MORE THAN 3,600 TO 5,400	168 OD
MORE THAN 5,400	220 OD



GATE POST SECTION AT CURB AND GUTTER

DROP ROD FOUNDATION

GATE KEEPER (TO HOLD GATE OPEN)

LATCH ASSEMBLY

DROP ROD ASSEMBLY

SWING GATE DETAILS

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

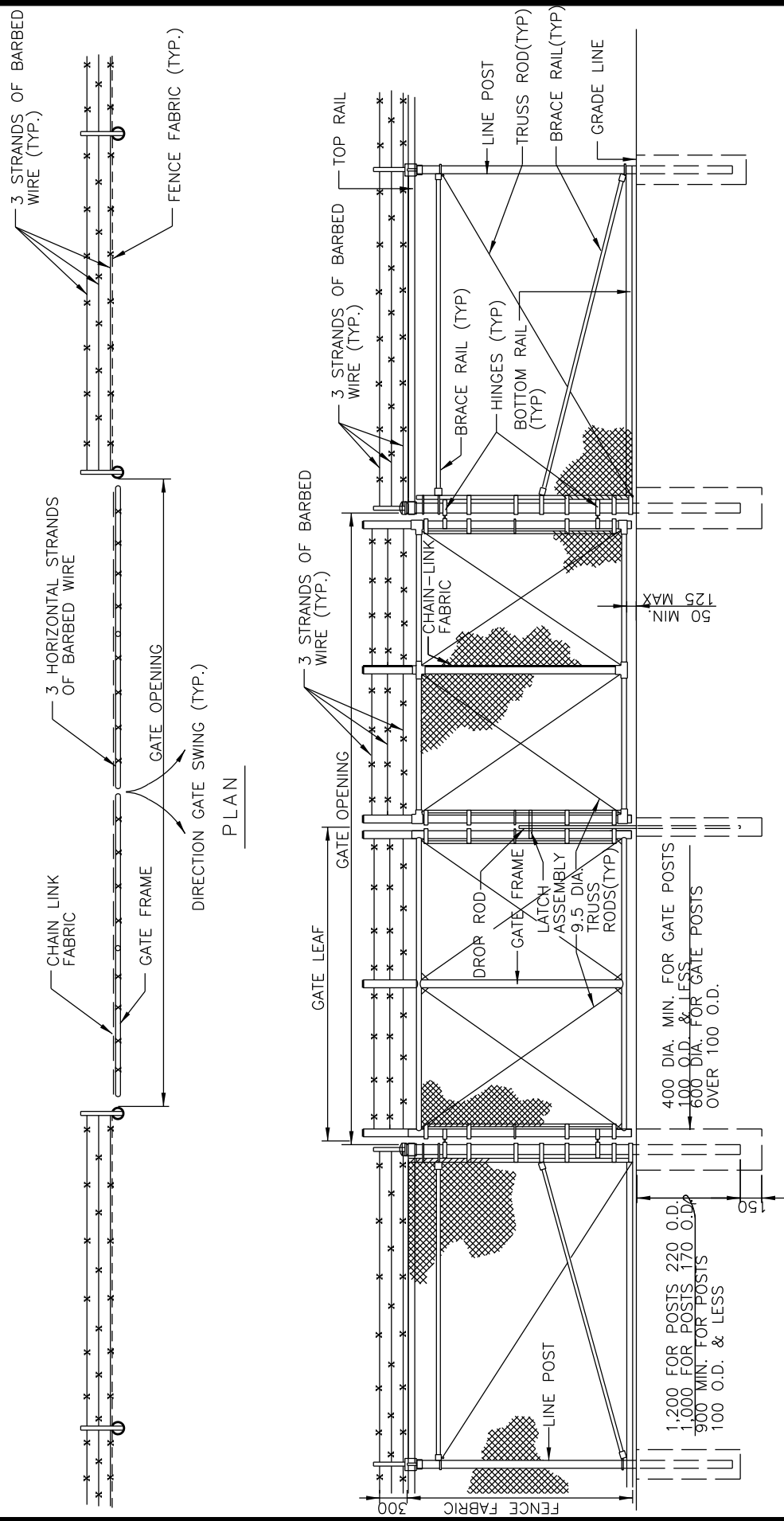
FE5 CHAIN LINK SECURITY FENCE GATE DETAILS

OMA SPEC

323113

DWG NO.

C-605 (2/2)



ELEVATION

DOUBLE SWING GATE (TYPE FE-6 FENCE)

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE FE6 CHAIN LINK SECURITY FENCE GATE DETAILS

OMA SPEC 323113

DWG NO. C-606 (1/3)



O&MA STANDARD DETAILS, KOREA

TITLE

FE6 CHAIN LINK SECURITY FENCE GATE DETAILS

OMA SPEC

323113

DWG NO.

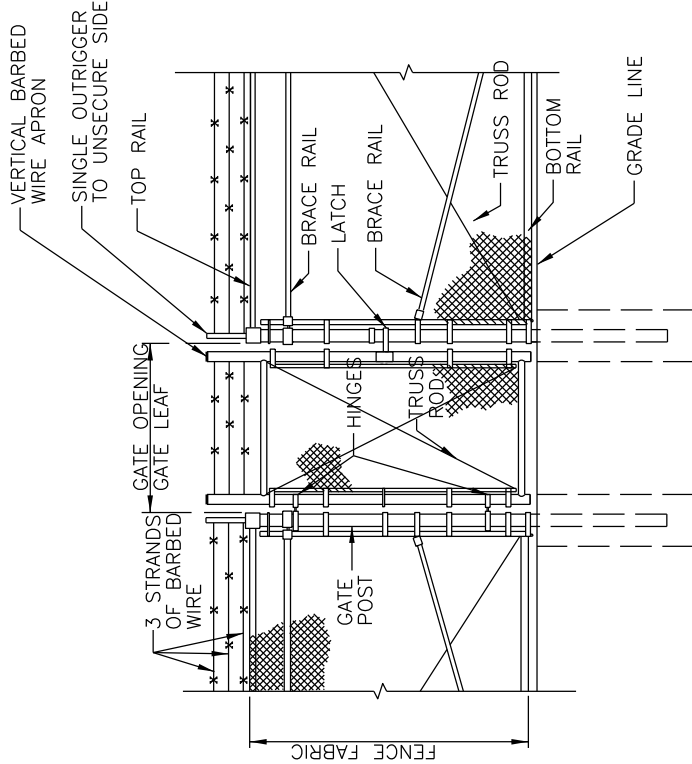
C-606 (2/3)

NOTES:

1. DETAILS SHOWN ARE TO CLARIFY REQUIREMENTS AND ARE NOT INTENDED TO LIMIT OTHER TYPE OF FENCE SECTIONS AND METHODS OF INSTALLATION THAT COMPLY WITH THE SPECIFICATIONS.
2. SWING GATES SHALL BE CONSTRUCTED WITH DROP RODS, PADLOCKS, LATCH ASSEMBLY AND GATE KEEPERS EXCEPT AS NOTED.
3. ALL GATE FRAMES SHALL MEET THE MINIMUM REQUIREMENTS OF ASTM F900 48 NOMINAL (ROUND) OR 50 NOMINAL (SQUARE). GATE FRAMES SHALL BE OF WELDED CONSTRUCTION OR SHALL BE ASSEMBLED USING HEAVY FITTINGS. AT CONTRACTOR'S OPTION A WELDED HORIZONTAL BRACE MAY BE USED IN LIEU OF TRUSS RODS TO BRACE ALL-WELDED GATE FRAMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER RIGID CONSTRUCTION OF ALL GATES SUPPLIED.
4. GATES SHALL BE DESIGNATED AS FOLLOWS:

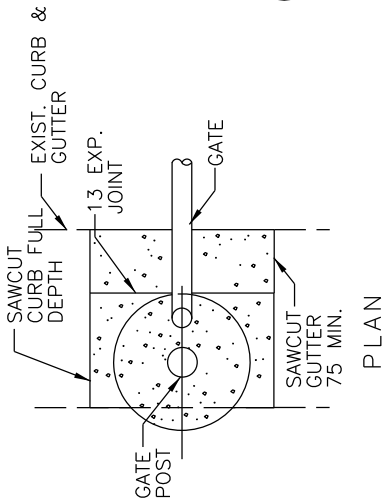
FENCE TYPE	-	FE5, FE6, ETC.
FENCE HEIGHT	-	MILLIMETERS
TYPE OPENING	-	SO (SINGLE)
	-	DO (DOUBLE)
	-	RA (STANDARD)
	-	HO (OFFSET)
OPENING	-	MILLIMETERS (CLEAR OPENING BETWEEN GATE POSTS)

EXAMPLES:
 FE6-2,100-DO-RA-7,200
 FE5-1,800-SO-HO-1,800



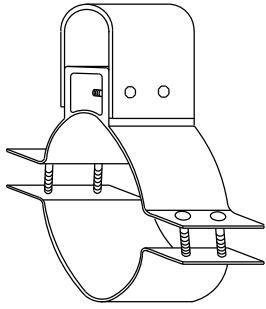
PERSONNEL GATE, TYPE FE-6 FENCE

NOT TO SCALE

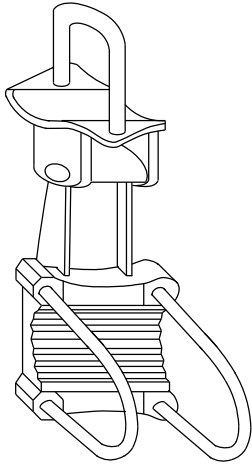


PLAN

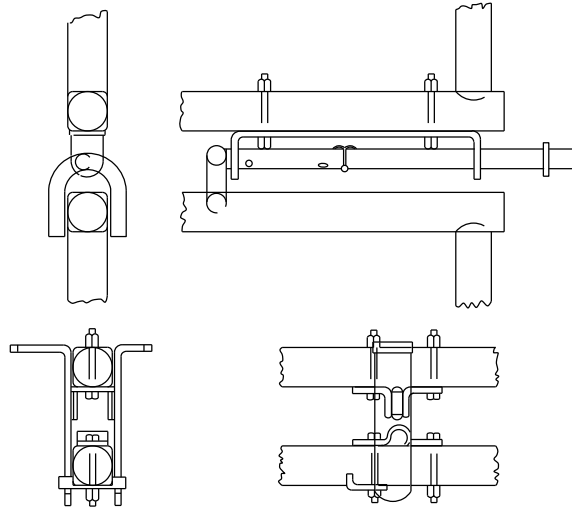
GATE POST SCHEDULE	
GATE LEAF WIDTH (NOMINAL)	OUTSIDE DIMENSION (NOMINAL)
1,800 OR LESS	73 OD 64 SQ
MORE THAN 1,800 TO 3,600	100 OD
MORE THAN 3,600 TO 5,400	168 OD
MORE THAN 5,400	220 OD



STANDARD HINGE

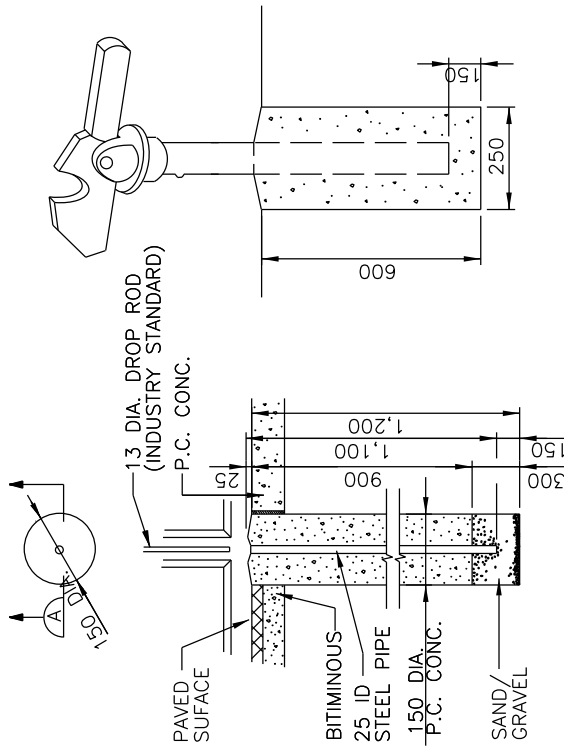


OFFSET HINGE



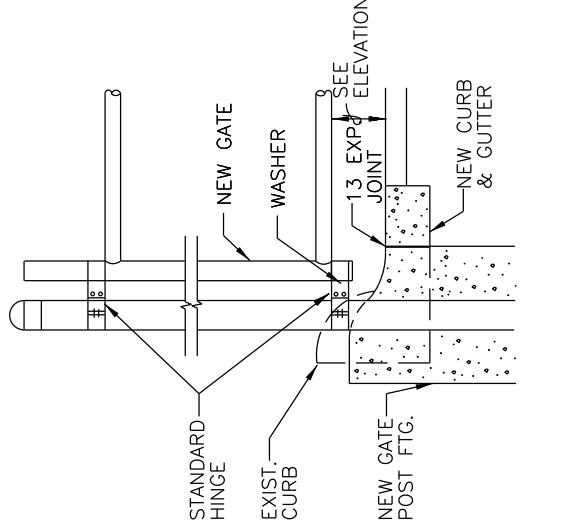
DROP ROD ASSEMBLY

LATCH ASSEMBLY



GATE KEEPER (TO HOLD GATE OPEN)

DROP ROD FOUNDATION



GATE POST SECTION AT CURB AND GUTTER

SWING GATE DETAILS

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

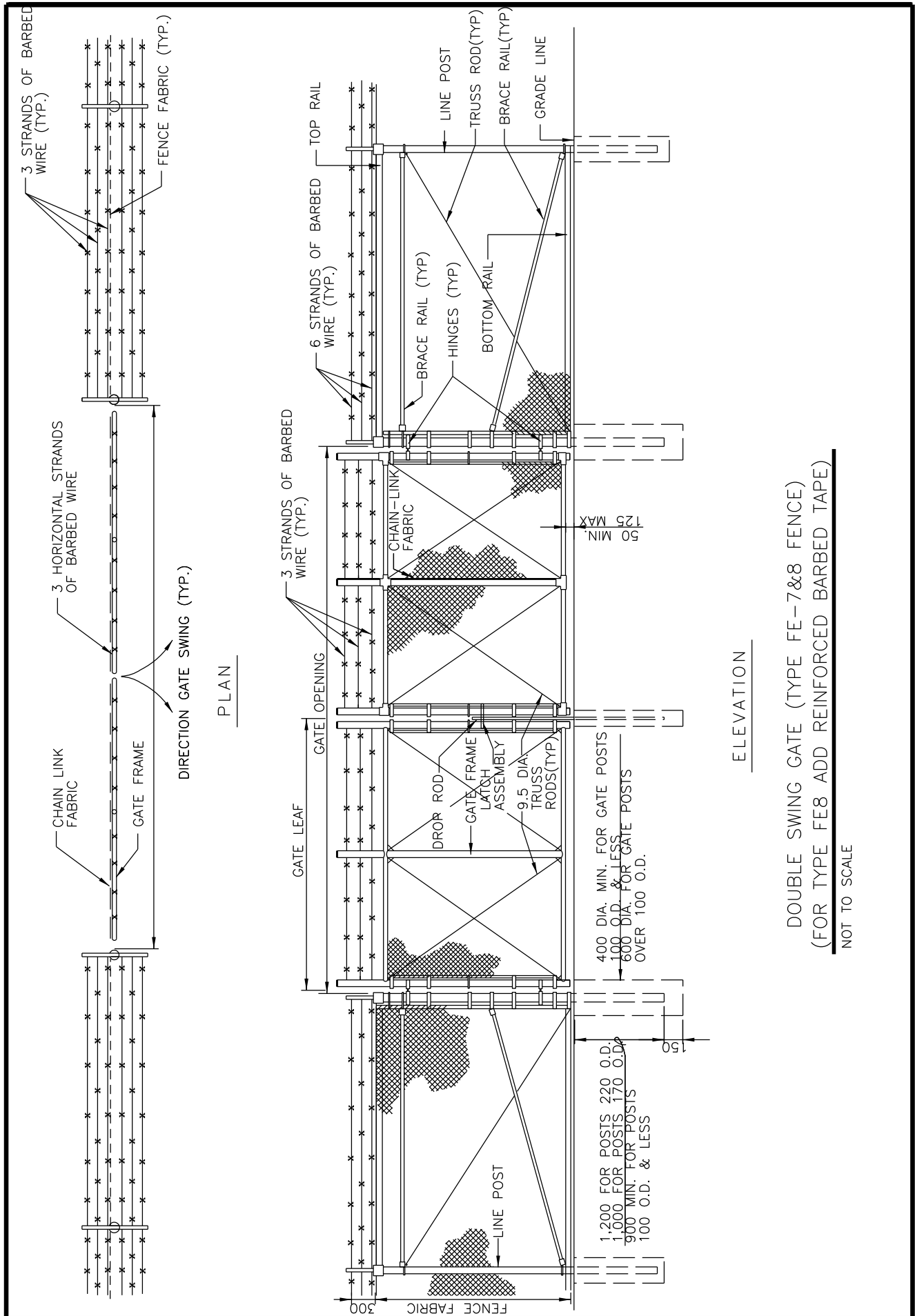
FE6 CHAIN LINK SECURITY FENCE GATE DETAILS

OMA SPEC

323113

DWG NO.

C-606 (3/3)



DOUBLE SWING GATE (TYPE FE-7&8 FENCE)
 (FOR TYPE FE8 ADD REINFORCED BARBED TAPE)
 NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	FE7/8 CHAIN LINK SECURITY FENCE GATE DETAILS	323113	C-607 (1/3)



O&MA STANDARD DETAILS, KOREA

TITLE

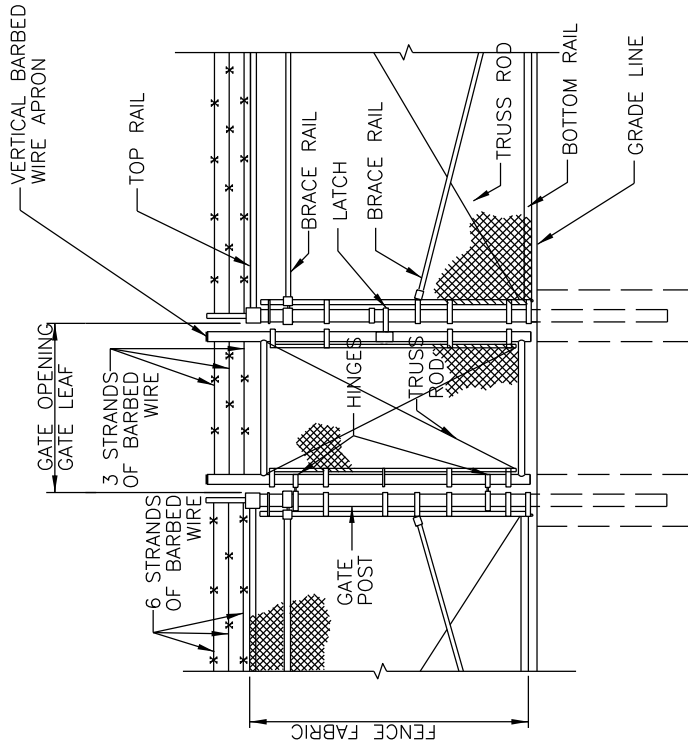
FE7/8 CHAIN LINK SECURITY FENCE GATE DETAILS

OMA SPEC

323113

DWG NO.

C-607 (2/3)



PERSONNEL GATE, TYPE FE7/8 FENCE

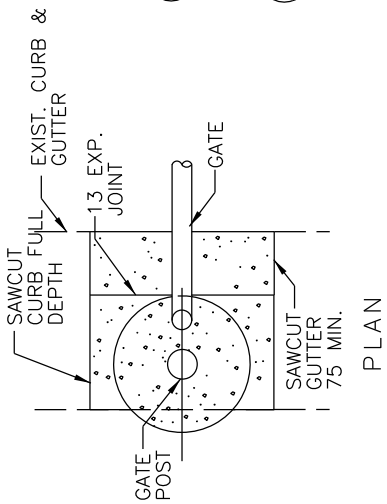
NOT TO SCALE

NOTES:

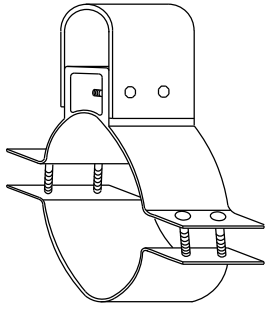
1. DETAILS SHOWN ARE TO CLARIFY REQUIREMENTS AND ARE NOT INTENDED TO LIMIT OTHER TYPE OF FENCE SECTIONS AND METHODS OF INSTALLATION THAT COMPLY WITH THE SPECIFICATIONS.
2. SWING GATES SHALL BE CONSTRUCTED WITH DROP RODS, PADLOCKS, LATCH ASSEMBLY AND GATE KEEPERS EXCEPT AS NOTED.
3. ALL GATE FRAMES SHALL MEET THE MINIMUM REQUIREMENTS OF ASTM F900 48 NOMINAL (ROUND) OR 50 NOMINAL (SQUARE). GATE FRAMES SHALL BE OF WELDED CONSTRUCTION OR SHALL BE ASSEMBLED USING HEAVY FITTINGS. AT CONTRACTOR'S OPTION A WELDED HORIZONTAL BRACE MAY BE USED IN LIEU OF TRUSS RODS TO BRACE ALL-WELDED GATE FRAMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER RIGID CONSTRUCTION OF ALL GATES SUPPLIED.
4. GATES SHALL BE DESIGNATED AS FOLLOWS:

FENCE TYPE	-	FE5, FE6, ETC.
FENCE HEIGHT	-	MILLIMETERS
TYPE OPENING	-	SO (SINGLE)
	-	DO (DOUBLE)HINGE
	-	RA (STANDARD)
	-	HO (OFFSET)
OPENING	-	MILLIMETERS (CLEAR OPENING BETWEEN GATE POSTS)

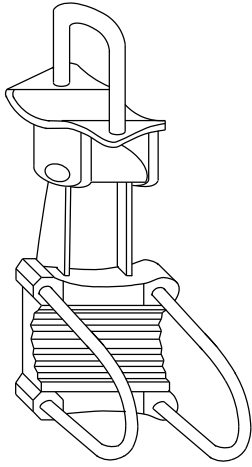
EXAMPLES: FE6-2,100-DO-RA-7,200
FE5-1,800-SO-HO-1,800



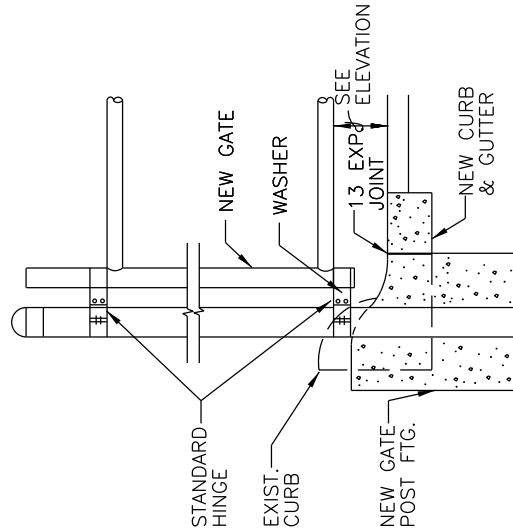
GATE POST SCHEDULE	
GATE LEAF WIDTH (NOMINAL)	OUTSIDE DIMENSION (NOMINAL)
1,800 OR LESS	73 OD 64 SQ
MORE THAN 1,800 TO 3,600	100 OD
MORE THAN 3,600 TO 5,400	168 OD
MORE THAN 5,400	220 OD



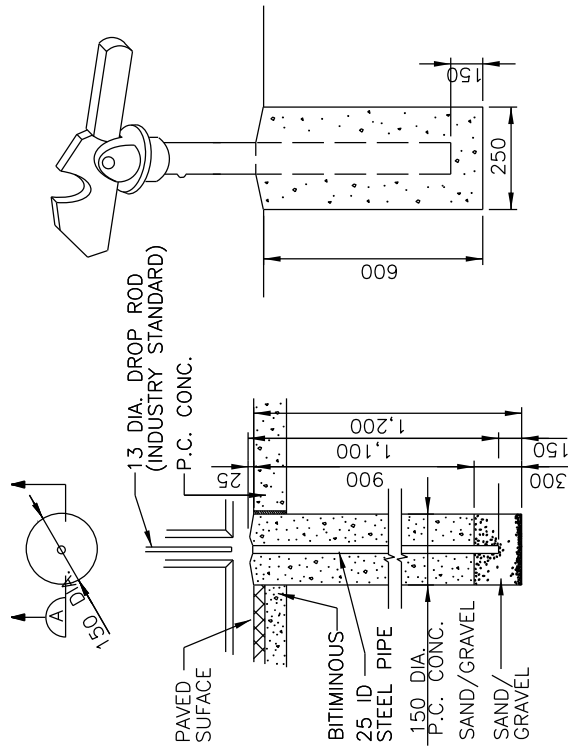
STANDARD HINGE



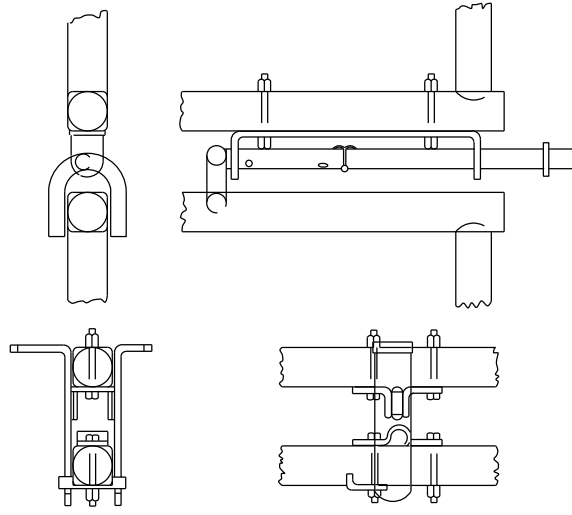
OFFSET HINGE



GATE POST SECTION AT CURB AND GUTTER

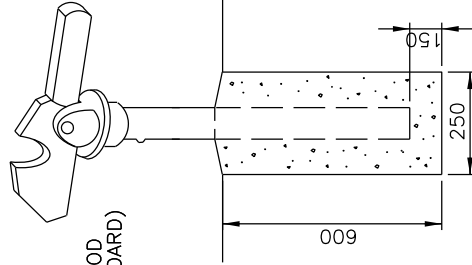


DROP ROD FOUNDATION



LATCH ASSEMBLY

DROP ROD ASSEMBLY



GATE KEEPER (TO HOLD GATE OPEN)

SWING GATE DETAILS
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

FE7/8 CHAIN LINK SECURITY FENCE GATE DETAILS

OMA SPEC

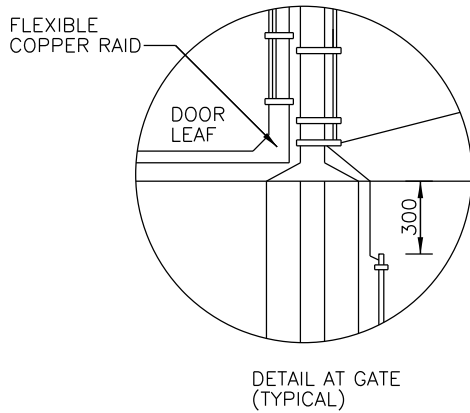
323113

DWG NO.

C-607 (3/3)

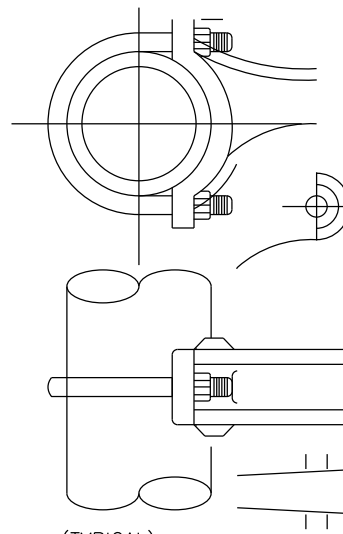
NOTE :

1. ALL FABRIC SHALL BE D28 GAGE WIRE WOVEN IN A 50mm MESH. TYPE FE-5 FENCE, TOP EDGE TO BE KNUCKLED FINISH, BOTTOM EDGE TWISTED AND BARBED TYPE FE-6 AND FE-7 FENCE, TOP AND BOTTOM EDGES TO BE TWISTED AND BARBED
2. SINGLE EXTENSION ARMS SHALL POINT OUT WIRED AT AN ANGLE OF 45° AND DOUBLE EXTENSION ARMS POINT OUTWARD AND INWARD AT 45° ANGLES. ALL EXTENSION ARMS TO BE 12 GAGE PRESSED STEEL.
3. SEE FENCE LAYOUT DRAWING FOR TYPE OF FENCE, NOMINAL SIZE OF GATE, WHETHER GATE IS SINGLE OR DOUBLE WALL WHETHER GATE SWINGS THROUGH 90° OR 180° AND WHETHER TOP RAIL OR TOP REINFORCING WIRE IS REQUIRED.
4. THREADED ENDS OF ALL FENCING BOLTS AND CONNECTOR BOLTS SHALL BE MUSHROOMED AFTER INSTALLATION.
5. ALL FENCES SHALL BE GROUNDED AT EACH TERMINATION, EACH CORNER, AND EACH SIDE OF EACH GATE, FENCES CROSSED BY PRIMARY POWER LINES SHALL BE GROUNDED, AT A POINT DIRECTLY BELOW CROSSING AND AT POINTS APPROXIMATELY 45m ON EACH SIDE OF CROSSING. FENCES PARALLEL TO OR WITHIN 30m OF PRIMARY POWER LINE SHALL BE GROUNDED EVERY 150m ALL OTHER FENCES SHALL BE GROUNDED AT INTERVALS OF 300m MAXIMUM.

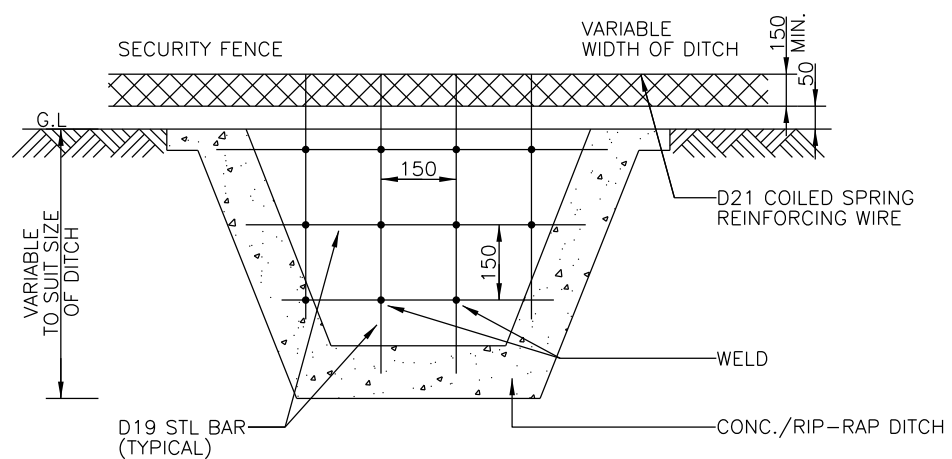


DETAIL AT GATE
(TYPICAL)

GROUNDING DETAIL
SEE NOTE 5



(TYPICAL)
POST HINGE



WATER COURSE BARRIER
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

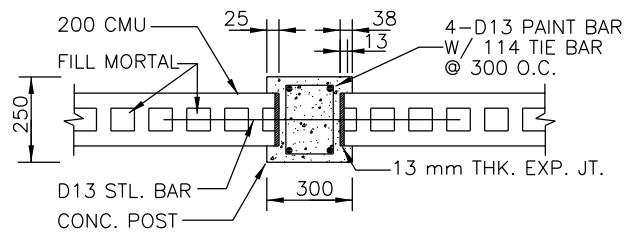
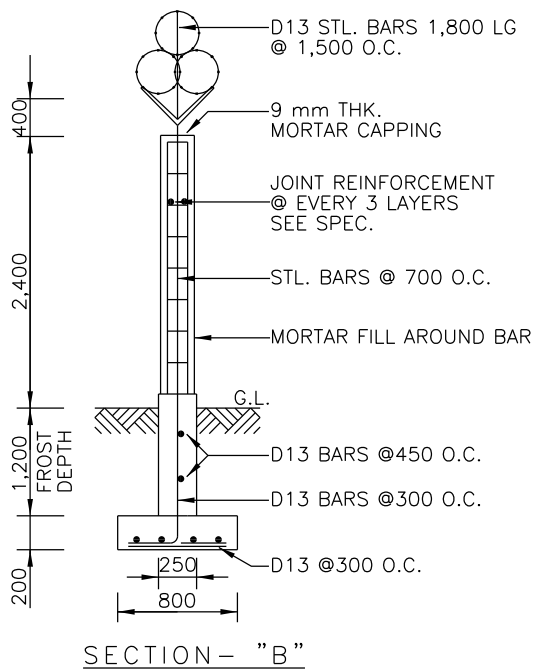
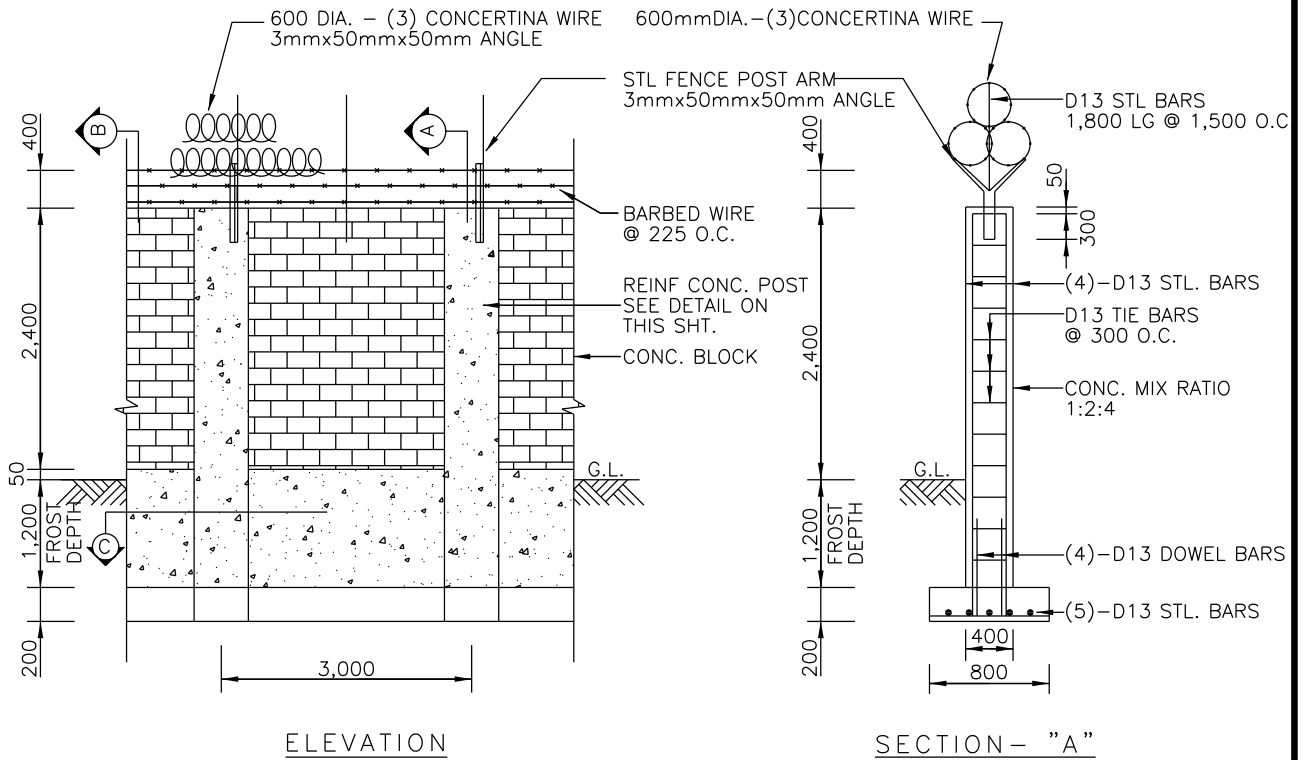
WATER COURSE BARRIER

OMA SPEC

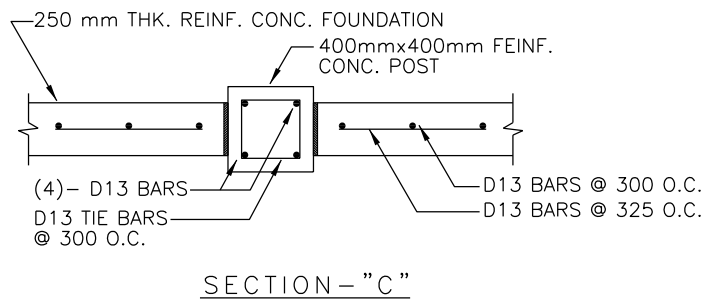
323113

DWG NO.

C - 608



DET. EXP. JOINT BETWEEN
CMU & CONC. POST



CMU WALL FENCE
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

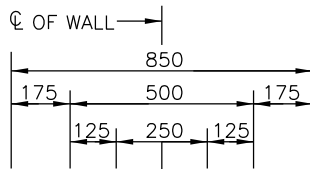
TITLE CMU WALL FENCE

OMA SPEC

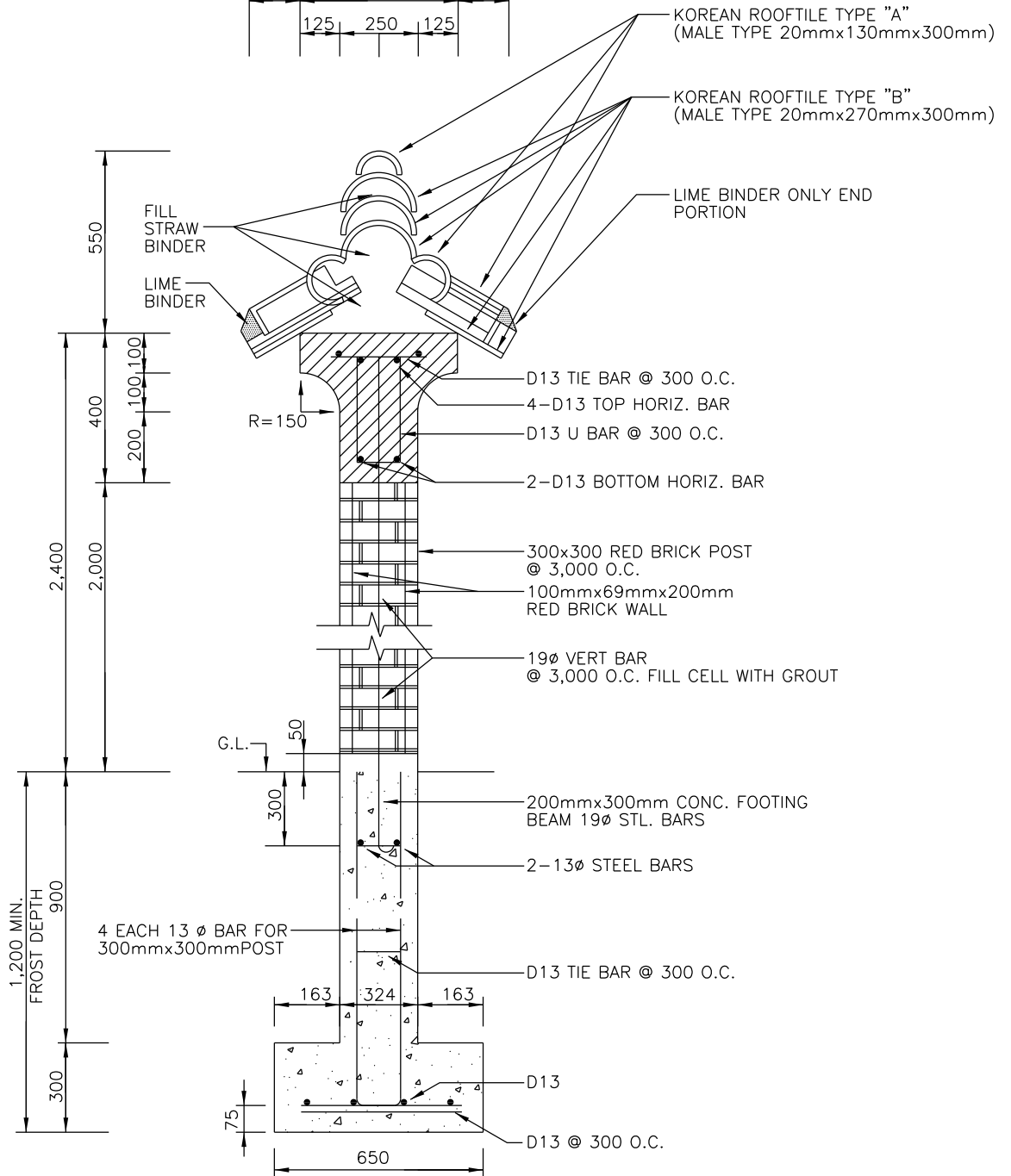
323113

DWG NO.

C - 609



NOTE :
DESIGNER WILL DESIGNATE MATERIAL TYPE OF
THE KOREAN ROOFTILE



RED BRICK FENCE
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

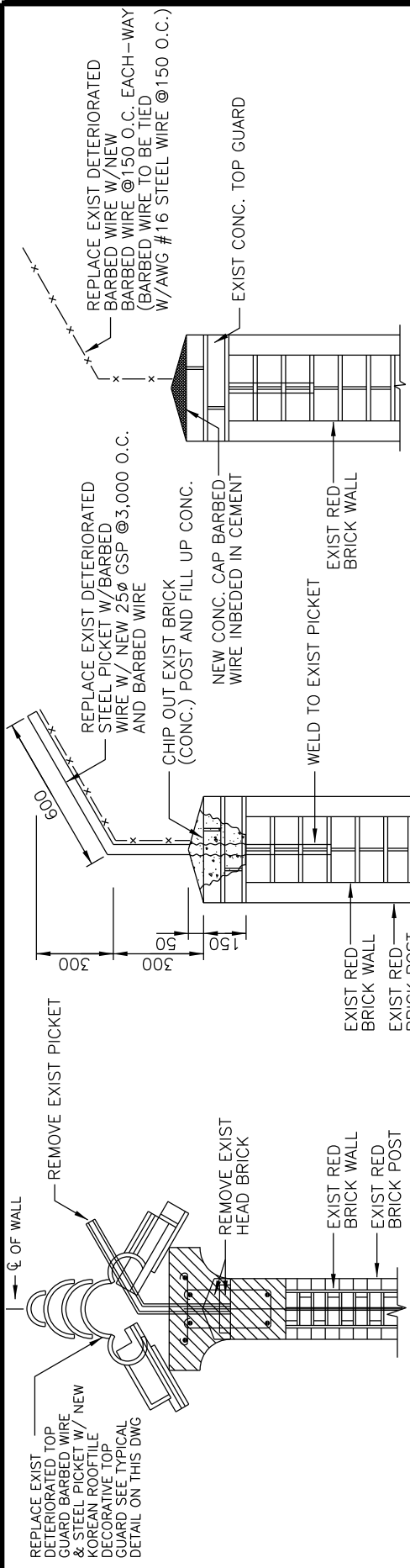
DWG NO.

TITLE

RED BRICK FENCE

323113

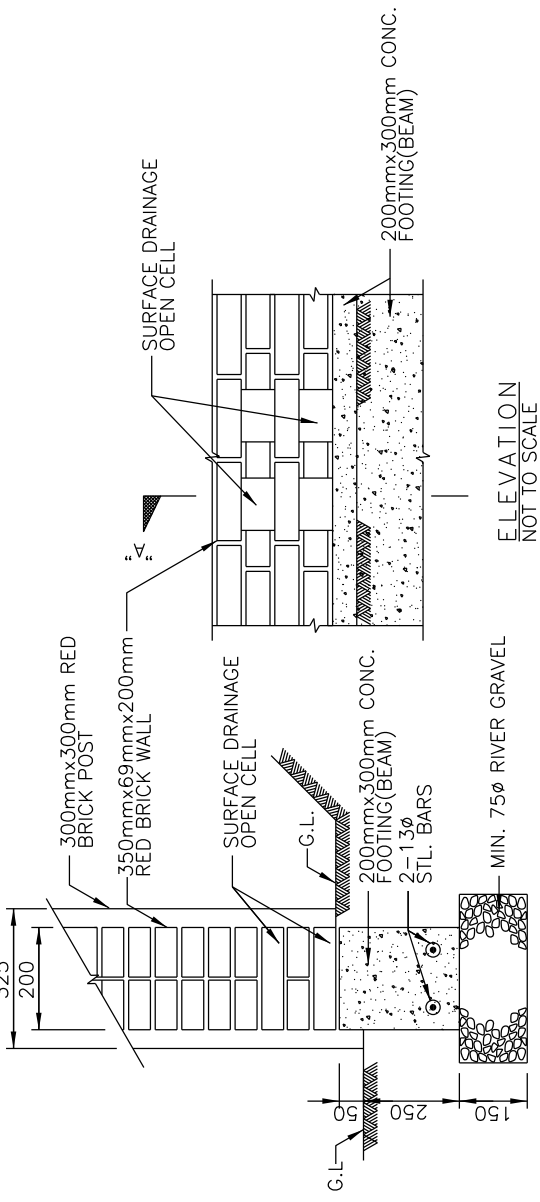
C - 610



KOREAN ROOFTILE DECORATIVE TOP GUARD
NOT TO SCALE

STEEL PICKET W/ BARBED WIRE
NOT TO SCALE

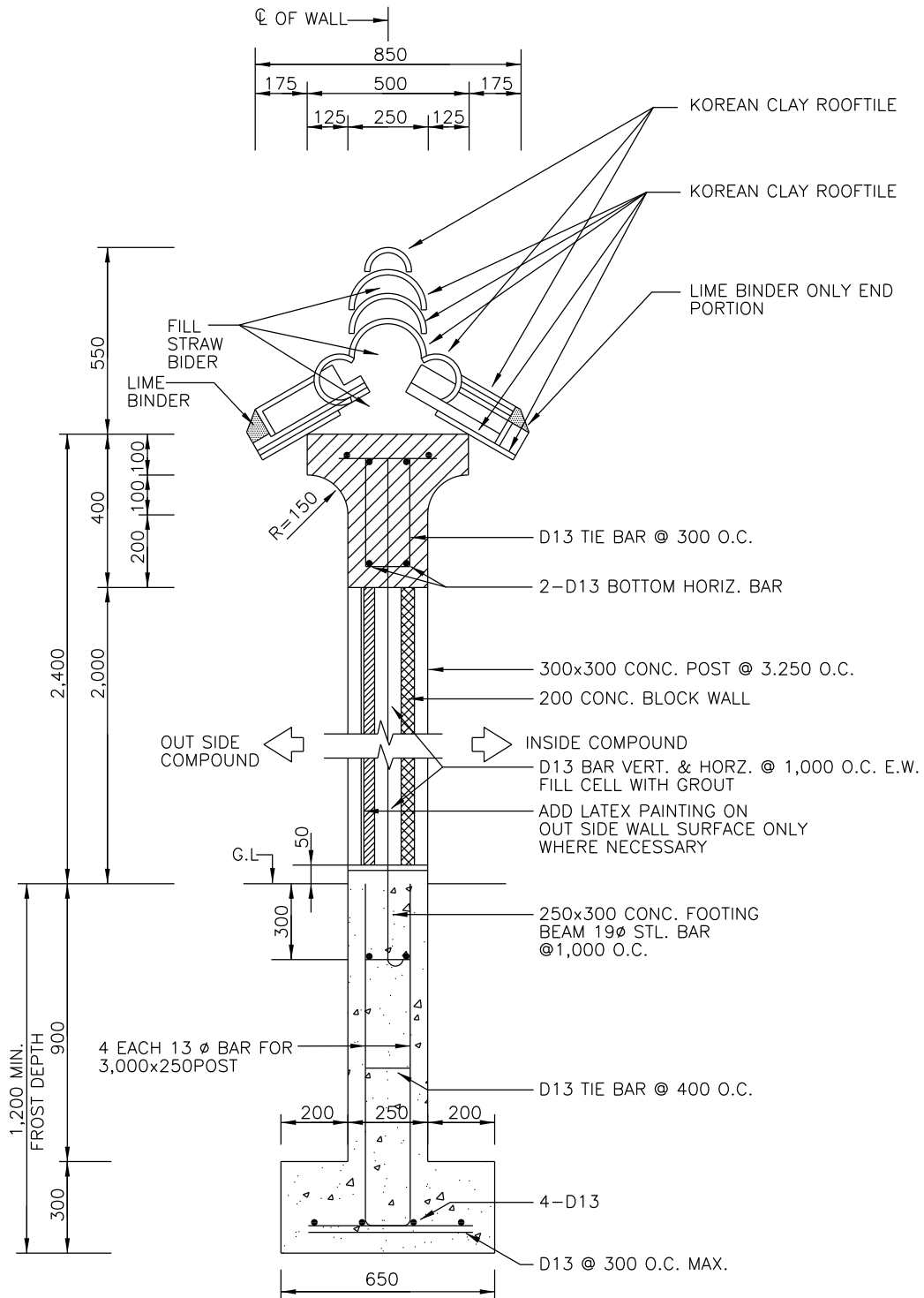
STEEL PICKET W/ BARBED WIRE
NOT TO SCALE



NOTE : DESIGNER SHALL SPECIFY THE MATERIAL, TYPE, KIND OF ROOFTILE

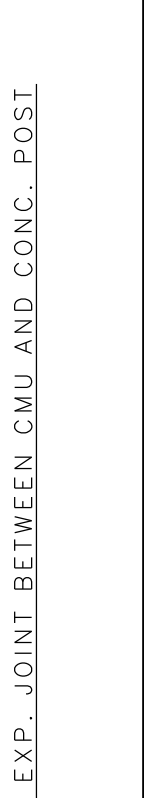
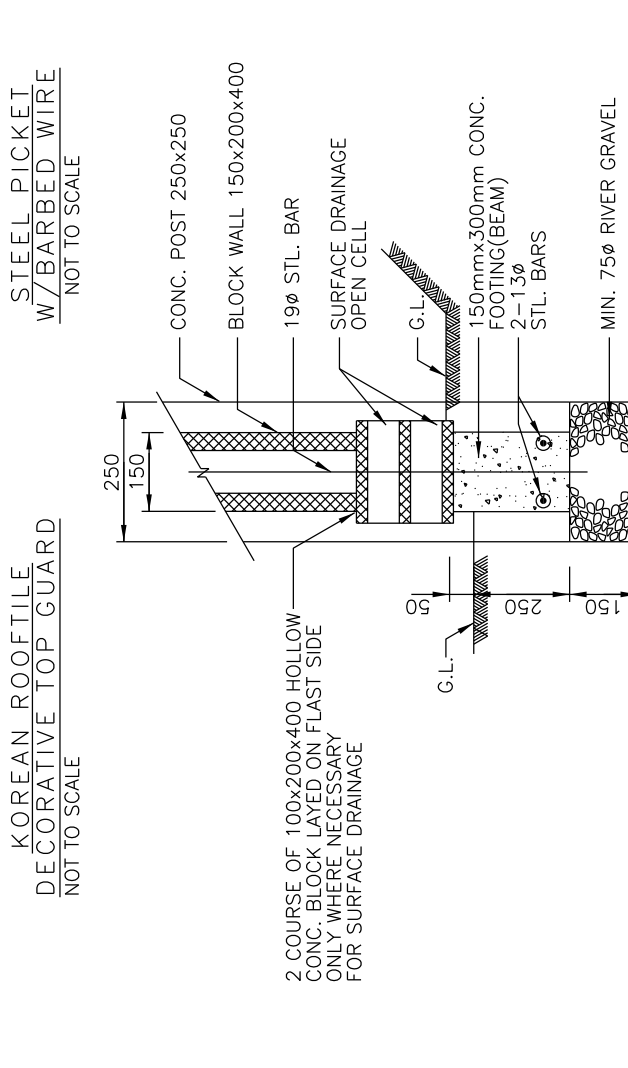
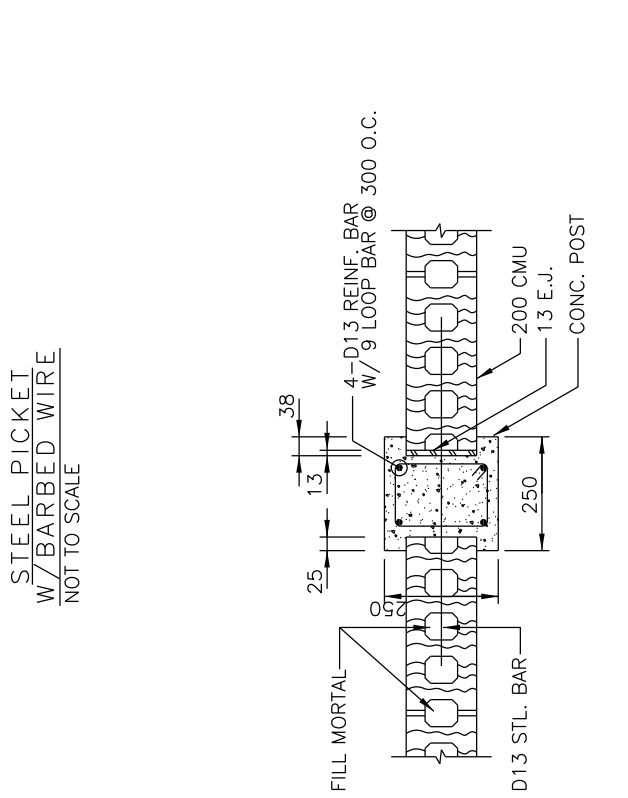
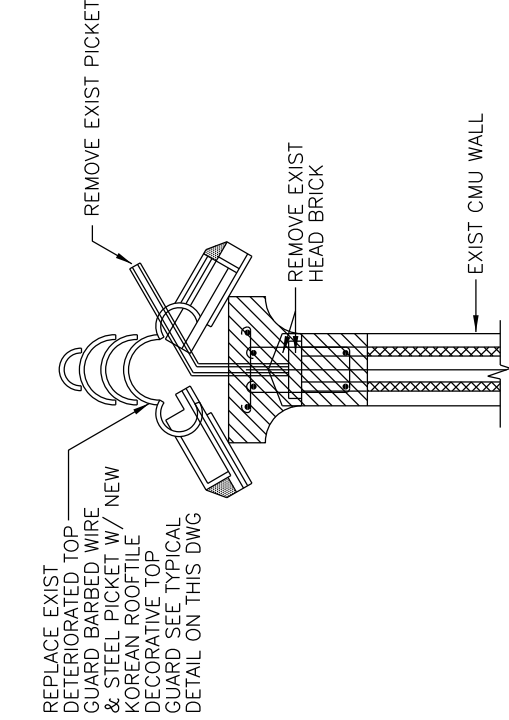
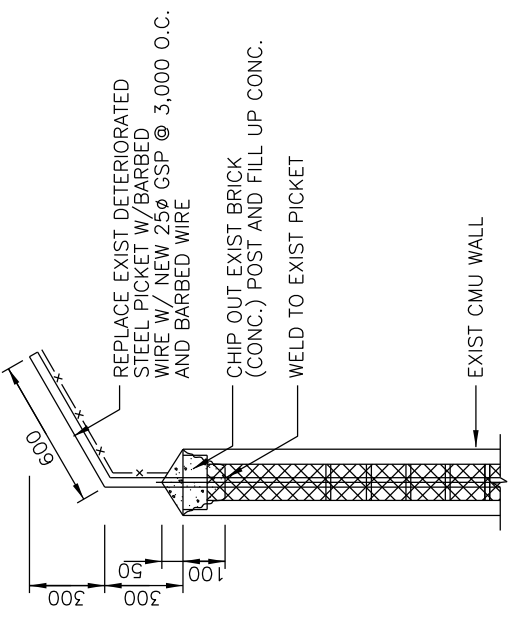
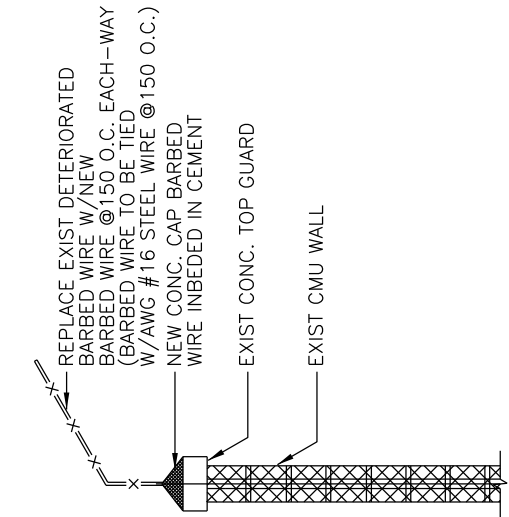
RED BRICK FENCE MISC DETAIL

	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	RED BRICK FENCE MISC DETAIL	323113	C - 611



CMU FENCE W/KOREAN ROOF TILE
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CMU FENCE W/KOREAN ROOF TILE	323113	C - 612



SECTION OF SURFACE DRAINAGE DETAIL
NOT TO SCALE

DET, EXP. JOINT BETWEEN CMU AND CONC. POST



O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
TITLE	CMU FENCE MISC. DETAILS	323113	C - 613

REV DATE: NOV 2015



O&MA STANDARD DETAILS, KOREA

OMA SPEC

DWG NO.

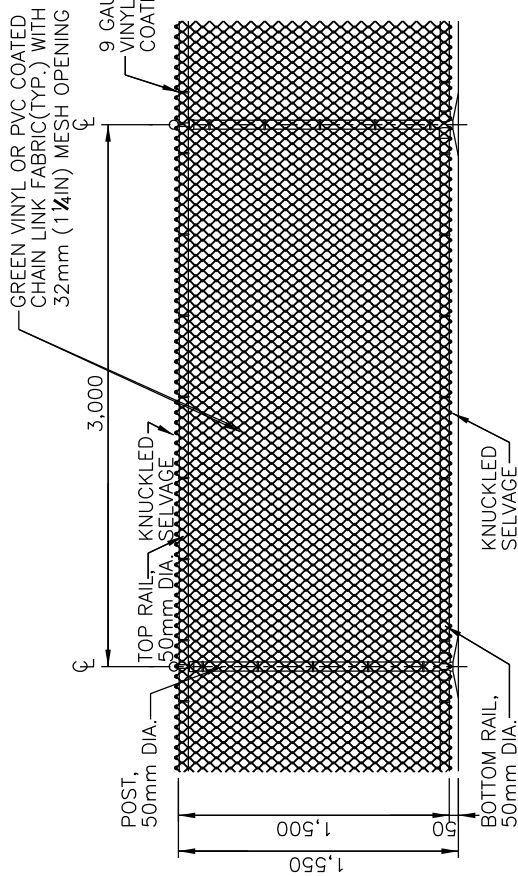
TITLE

PLAYGROUND PERIMETER FENCE

323113

C - 614

REV DATE: NOV 2015

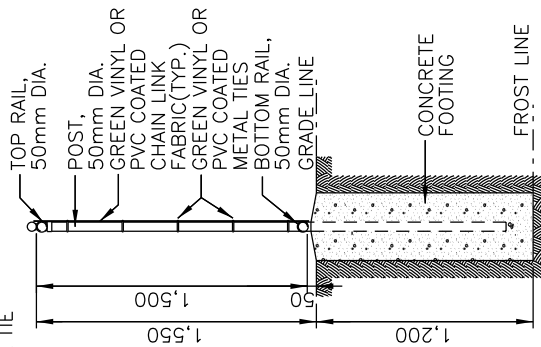


PLAYGROUND PERIMETER FENCE - ELEVATION

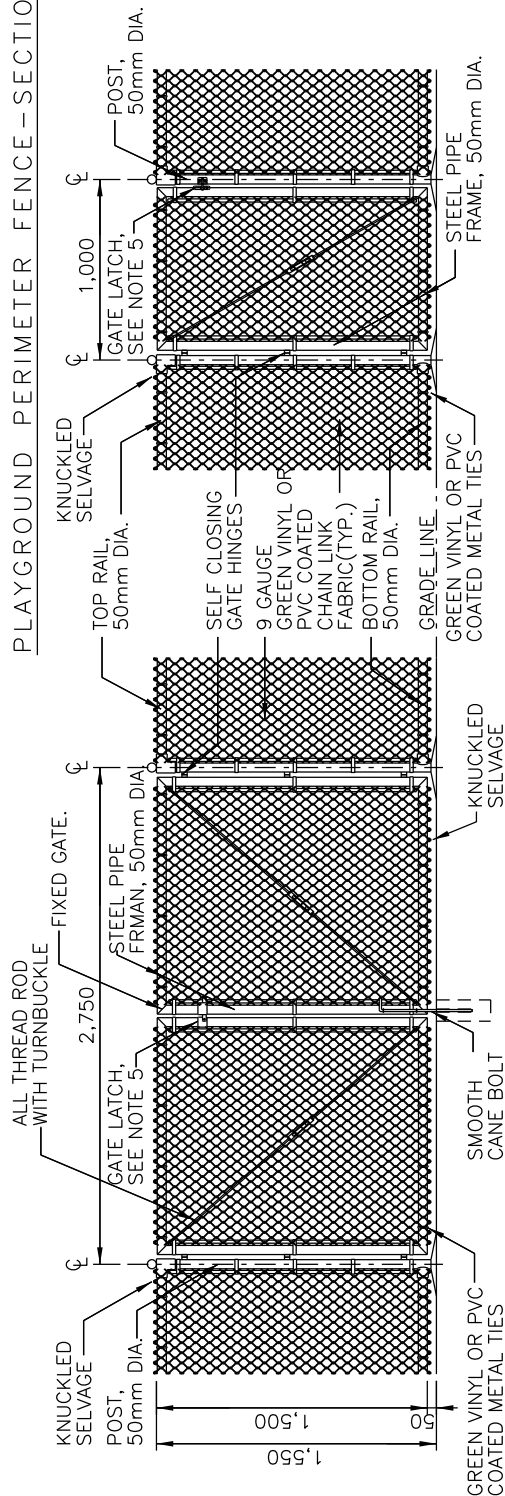
NOTE:
 1. METAL PLAYGROUND PERIMETER FENCES SHOULD BE INSTALLED WITH GROUNDING SYSTEM. THE INSTALLATION & LOCATION OF THE GROUNDING SYSTEM IS TO BE PROVIDED BY DESIGNER.
 2. TYPE OF FENCE CLOSE TO AIRFIELD SHOULD BE VERIFIED WITH AIRFIELD CONTROL CENTER.

NOTE:

1. ALL FENCE FABRIC TO BE GREEN VINYL OR PVC COATED. ALL FENCE STRUCTURE AND FASTENERS TO BE GREEN POWDER COATED.
2. FENCE FABRIC OPENING NOT TO EXCEED 32mm (1 1/4 IN) MEASURED DIAGONALLY.
3. ALL FASTENERS AND SHARP OBJECTS SHALL BE AVOIDED AT BOTH SIDES OF THE FENCE AND SHOULD BE FILLED TO REMOVE SHARP EDGES.
4. REMOVE ALL PROTRUSIONS AS DEFINE BY ASTM F2049.
5. GATE LATCHES AT PERIMETER FENCES TO BE ADULT CONTROLLED AND 1220mm (48IN) ABOVE GROUND.



PLAYGROUND PERIMETER FENCE - SECTION

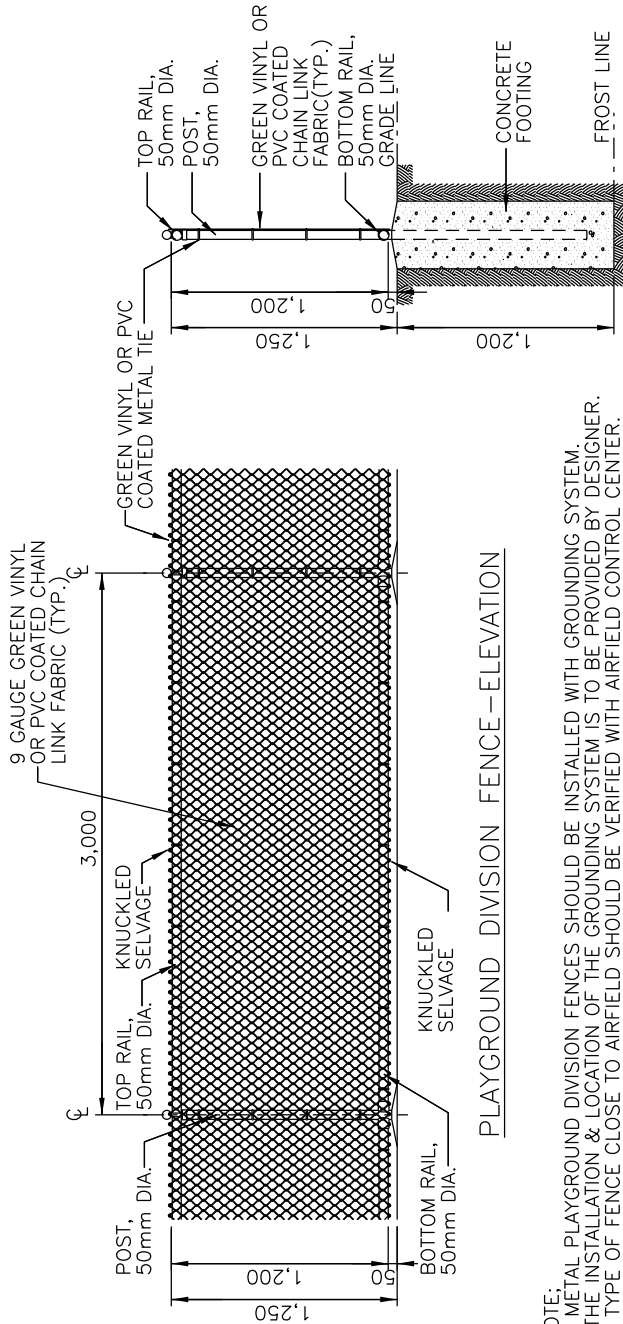


PLAYGROUND PERIMETER FENCE - SINGLE GATE SECTION

PLAYGROUND PERIMETER FENCE - DOUBLE GATE ELEVATION

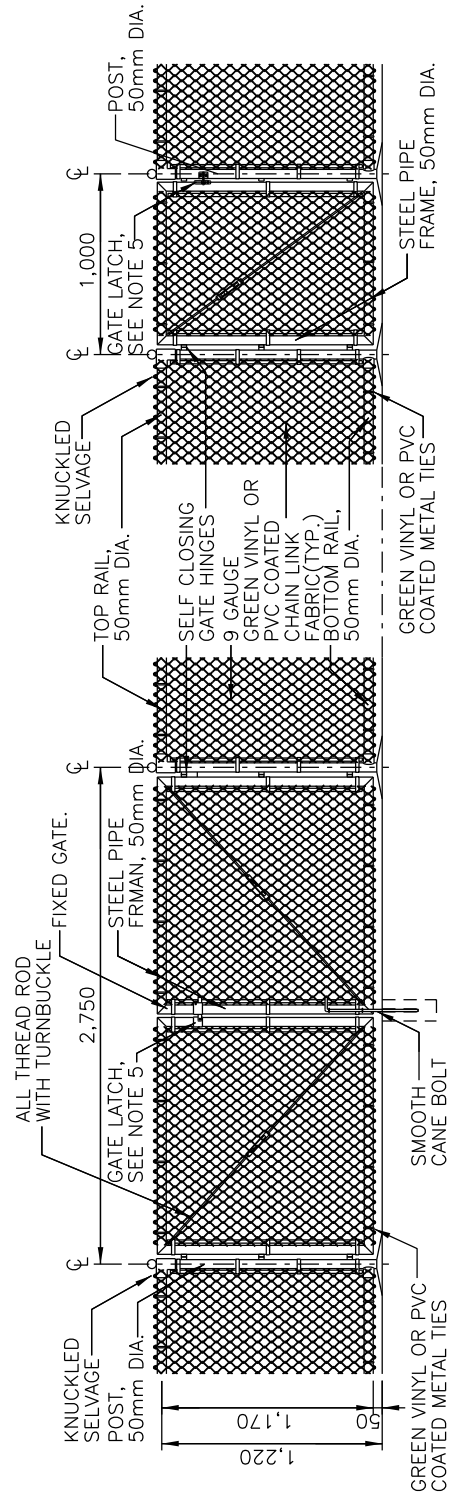
NOTE:

1. ALL FENCE FABRIC TO BE GREEN VINYL OR PVC COATED. ALL FENCE STRUCTURE AND FASTENERS TO BE GREEN POWDER COATED.
2. FENCE FABRIC OPENING NOT TO EXCEED 32mm (1 1/4 IN) MEASURED DIAGONALLY.
3. ALL FASTENERS AND SHARP OBJECTS SHALL BE AVOIDED AT BOTH SIDES OF THE FENCE AND SHOULD BE FILLED TO REMOVE SHARP EDGES.
4. REMOVE ALL PROTRUSIONS AS DEFINE BY ASTM F2049.
5. GATE LATCHES AT PERIMETER FENCES TO BE ADULT CONTROLLED AND 1220mm (48IN) ABOVE GROUND.



- NOTE:
1. METAL PLAYGROUND DIVISION FENCES SHOULD BE INSTALLED WITH GROUNDING SYSTEM. THE INSTALLATION & LOCATION OF THE GROUNDING SYSTEM IS TO BE PROVIDED BY DESIGNER.
 2. TYPE OF FENCE CLOSE TO AIRFIELD SHOULD BE VERIFIED WITH AIRFIELD CONTROL CENTER.

PLAYGROUND DIVISION FENCE - SECTION



PLAYGROUND DIVISION FENCE
SINGLE GATE ELEVATION

PLAYGROUND DIVISION FENCE
DOUBLE GATE ELEVATION



O&MA STANDARD DETAILS, KOREA

TITLE

PLAYGROUND DIVISION FENCE

OMA SPEC

323113

DWG NO.

C - 615

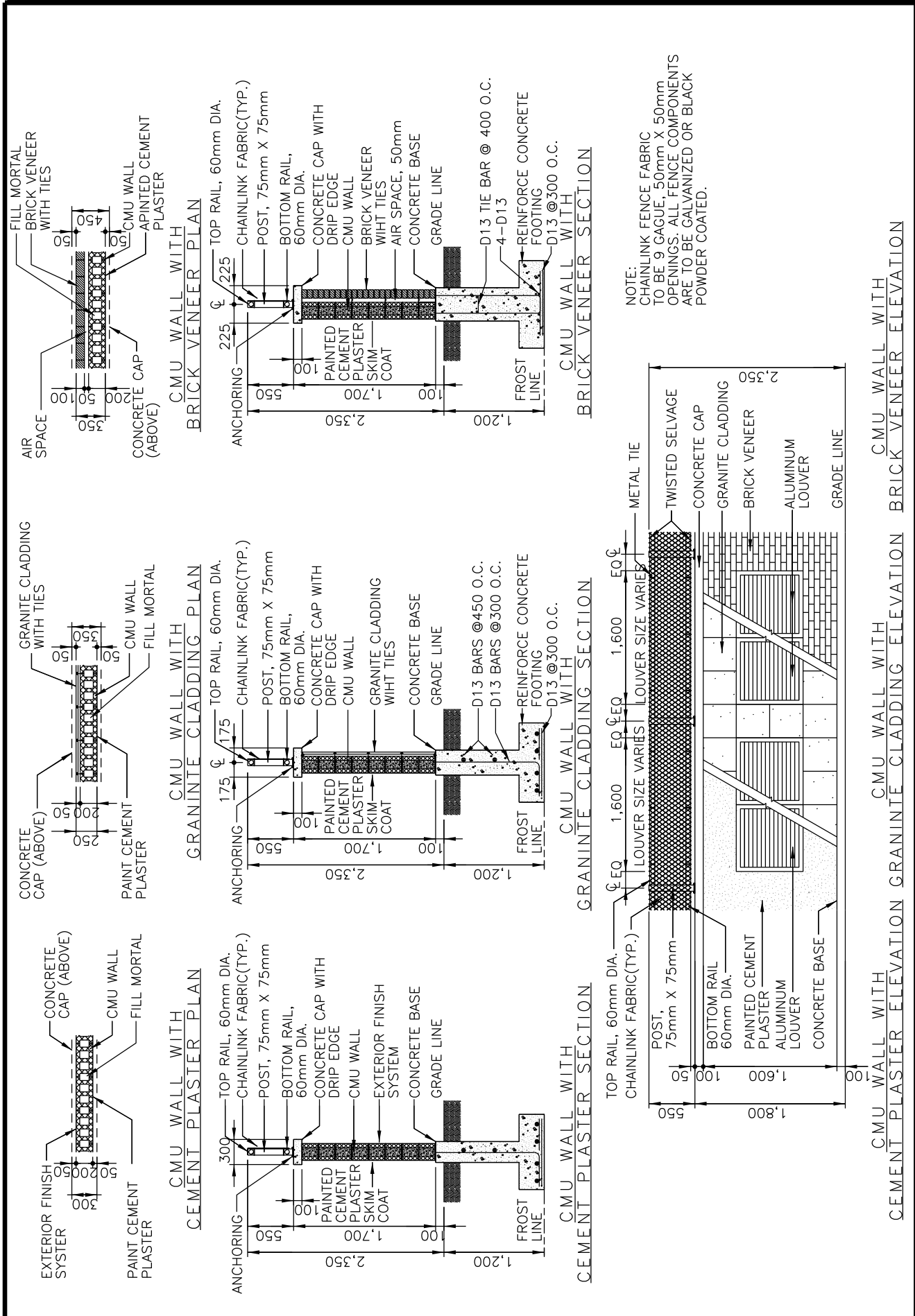


O&MA STANDARD DETAILS, KOREA

TITLE HVAC EQUIPMENT ENCLOSURE WALL

OMA SPEC 323113

DWG NO. C - 616





O&MA STANDARD DETAILS, KOREA

TITLE

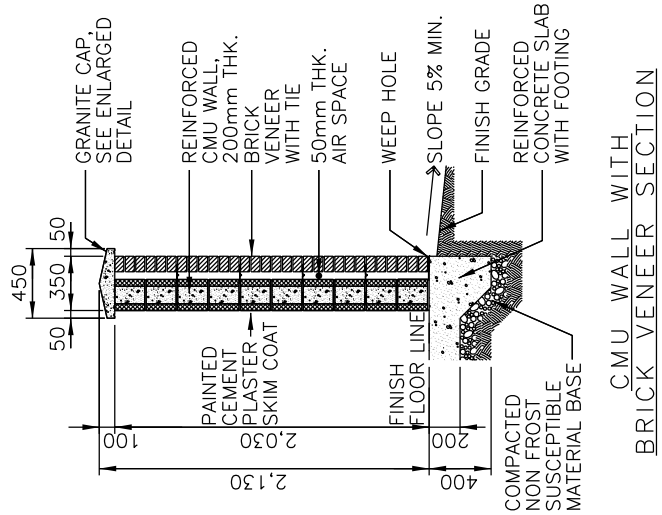
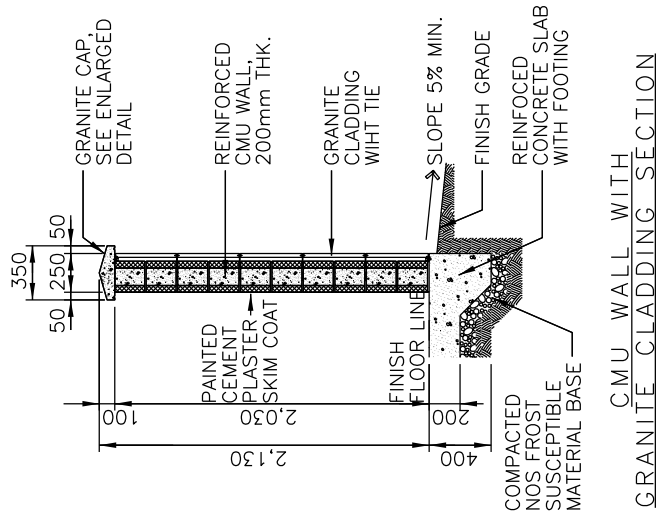
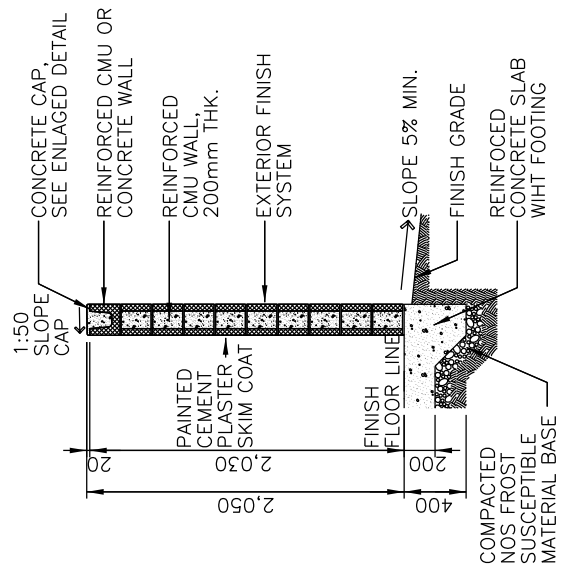
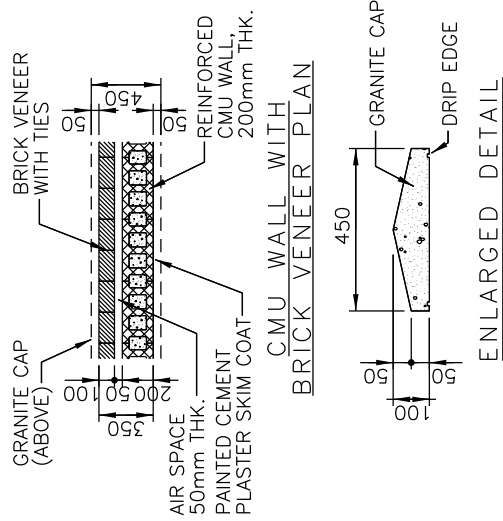
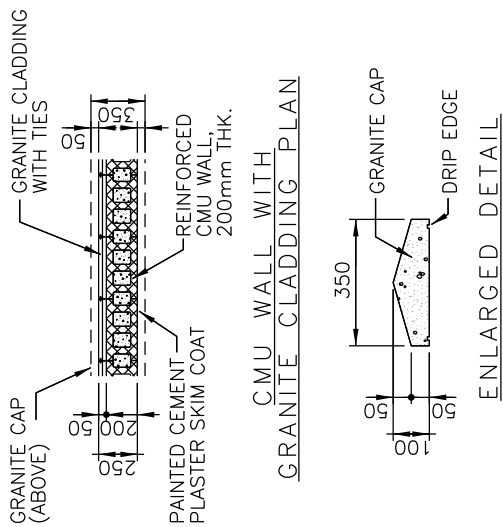
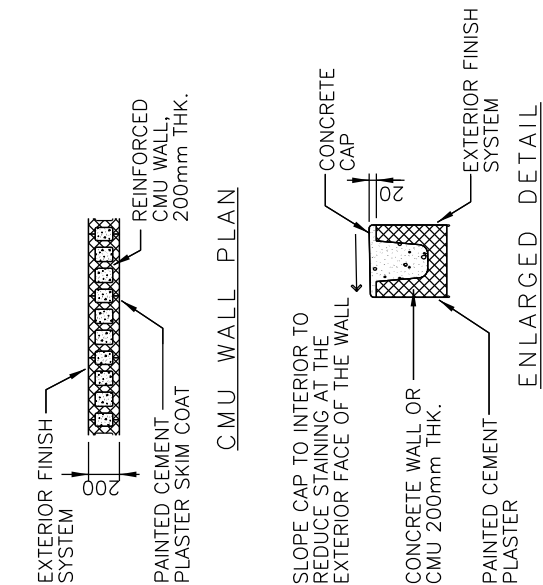
DUMPSTER ENCLOSURE WALL

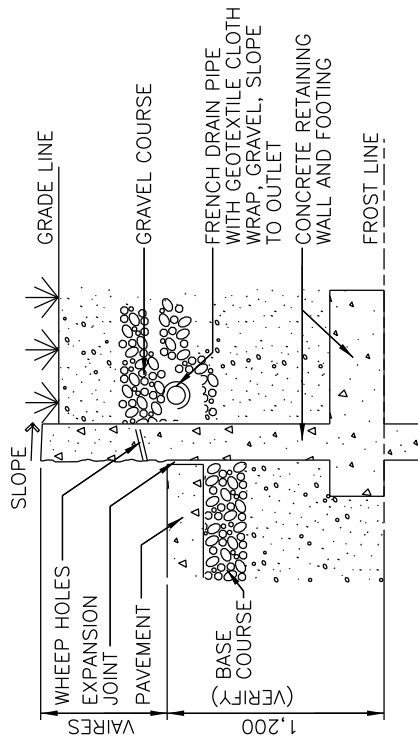
OMA SPEC

N/A

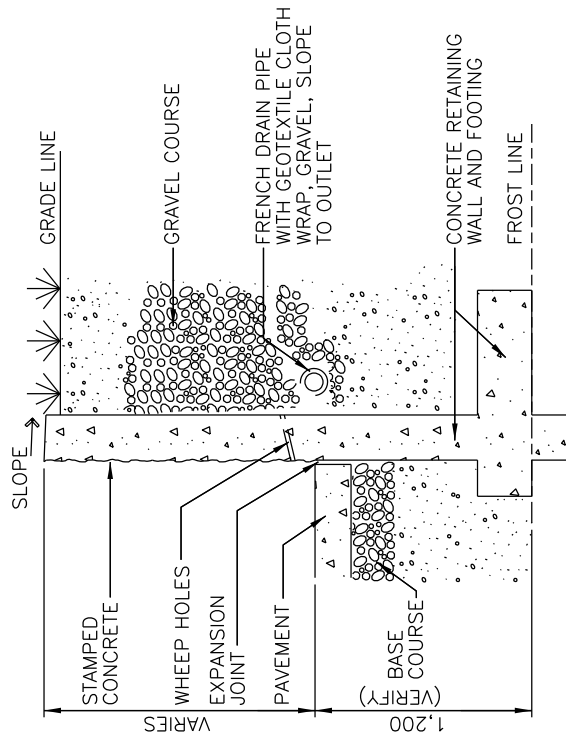
DWG NO.

C - 617

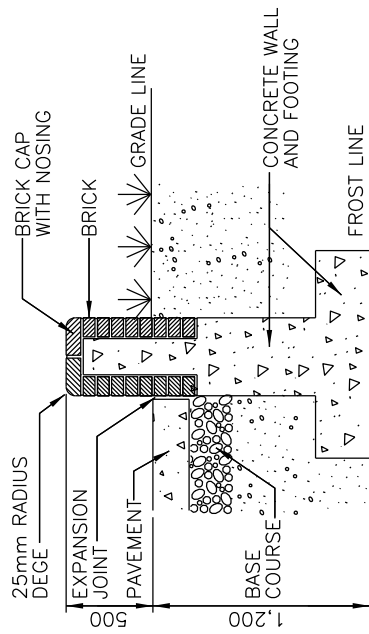




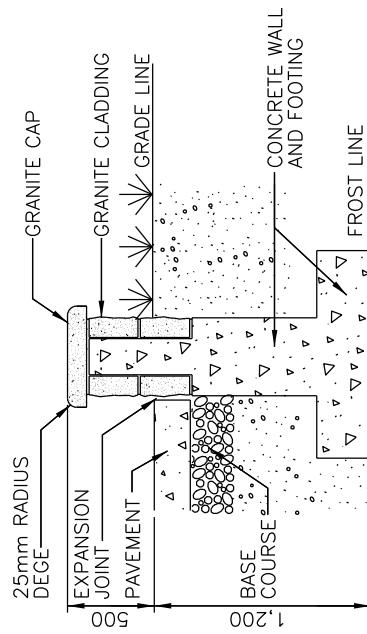
CONCRETE RETAINING WALL
WITH PATTERN—600mm



CONCRETE RETAINING WALL
WITH PATTERN—1500mm



PLANTER/SEATING WALL



PLANTER/SEATING WALL



O&MA STANDARD DETAILS, KOREA

TITLE

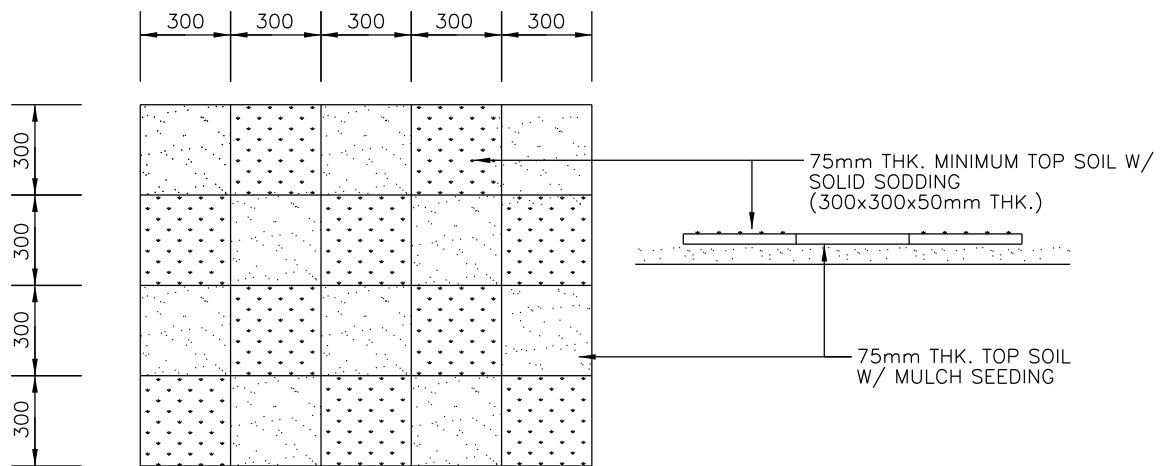
RETAINING WALL AND PLANTER WALLS

OMA SPEC

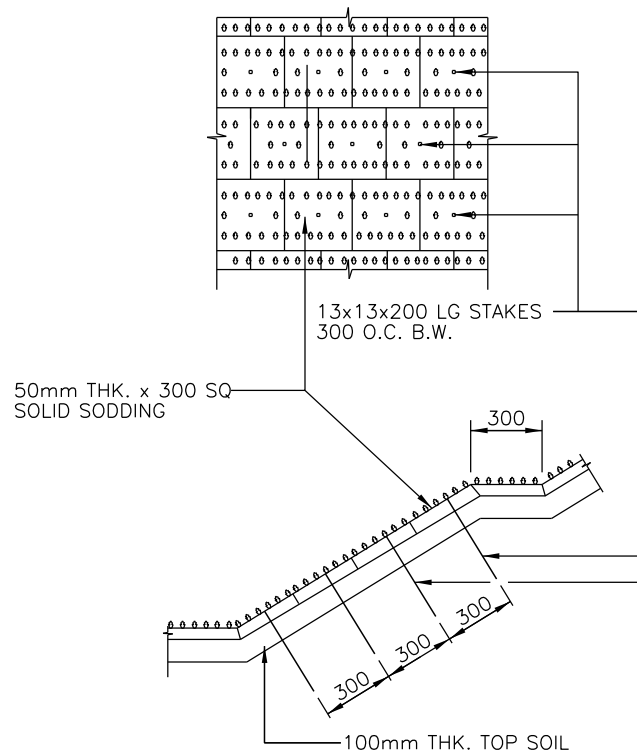
323113

DWG NO.

C - 618



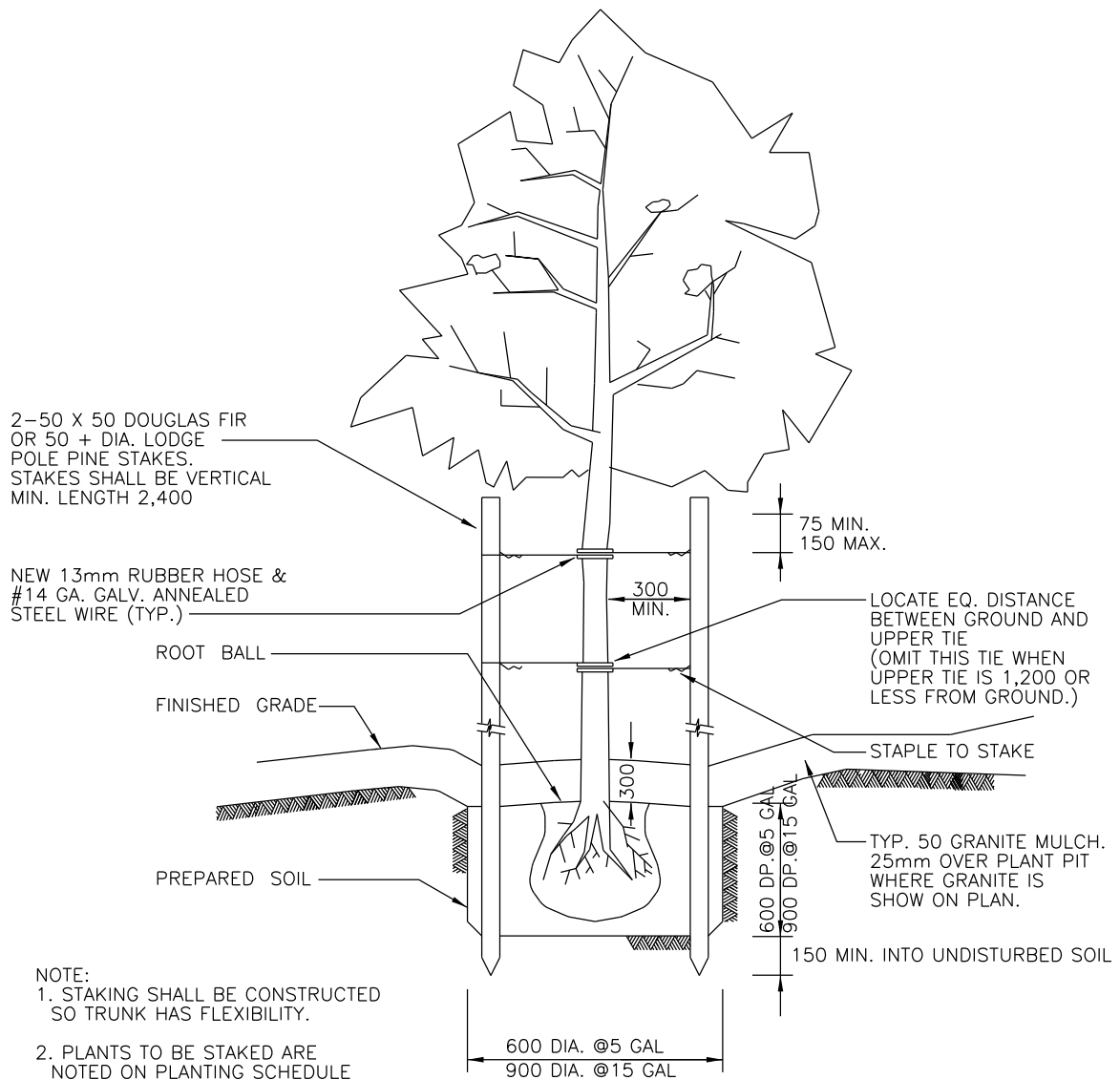
SPOT SODDING
NOT TO SCALE



SOLID SODDING DETAIL
NOT TO SCALE

SODDING

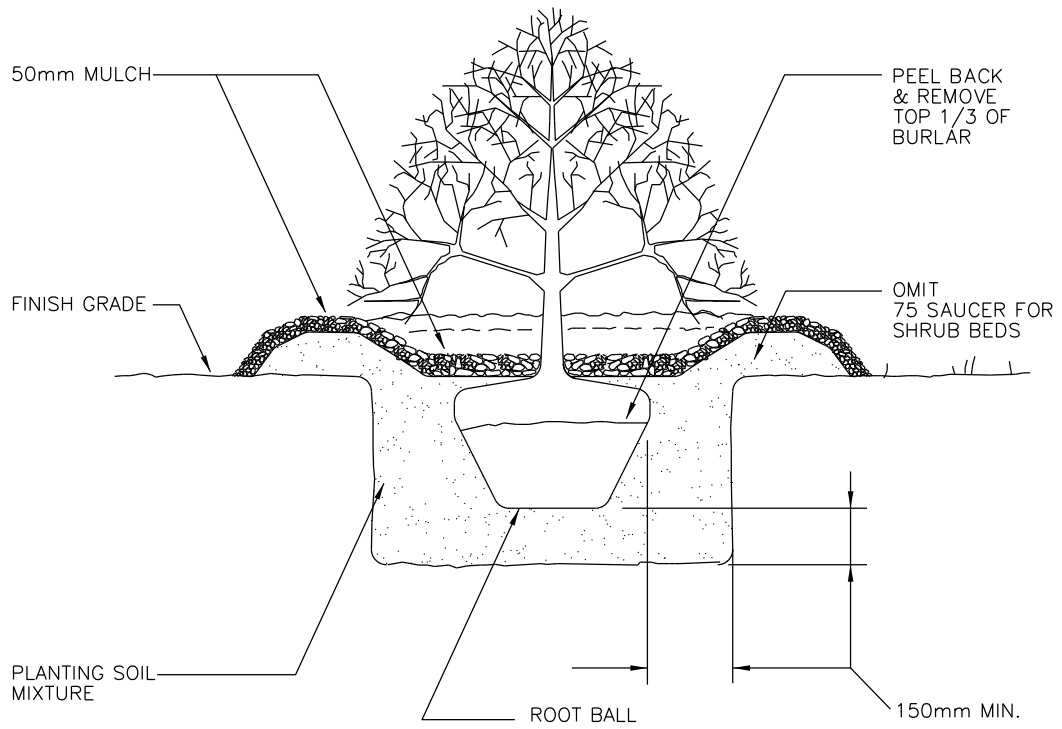
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	SODDING	329223	C - 701



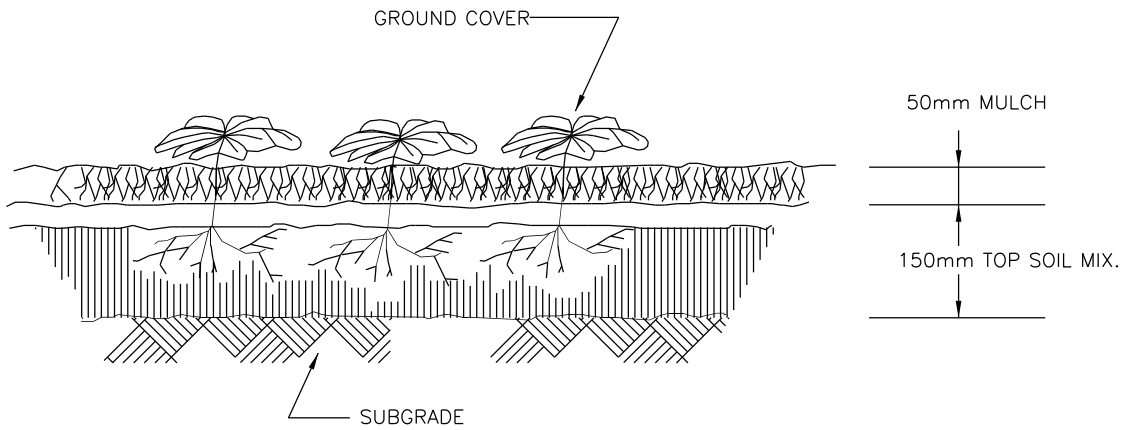
- NOTE:
1. STAKING SHALL BE CONSTRUCTED SO TRUNK HAS FLEXIBILITY.
 2. PLANTS TO BE STAKED ARE NOTED ON PLANTING SCHEDULE SHEET UNDER REMARKS.
 3. THIS DETAIL IS APPLICABLE FOR TREE PLANTING ON LEVEL GROUND AND 4 : 1 MAX. SLOPES.

TREE PLANTING & STAKING
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TREE PLANTING & STAKING	329300	C - 702



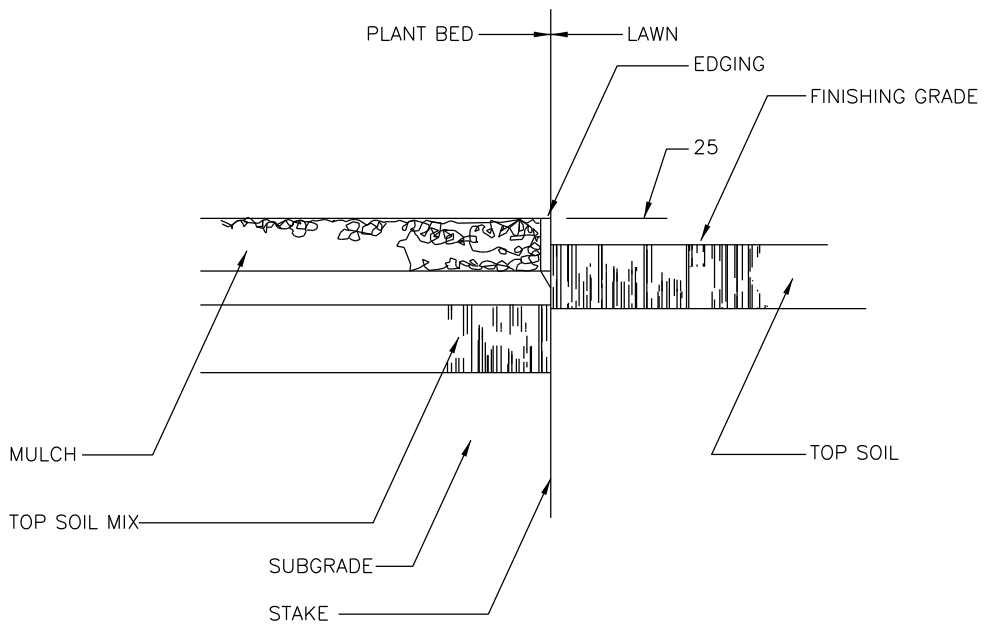
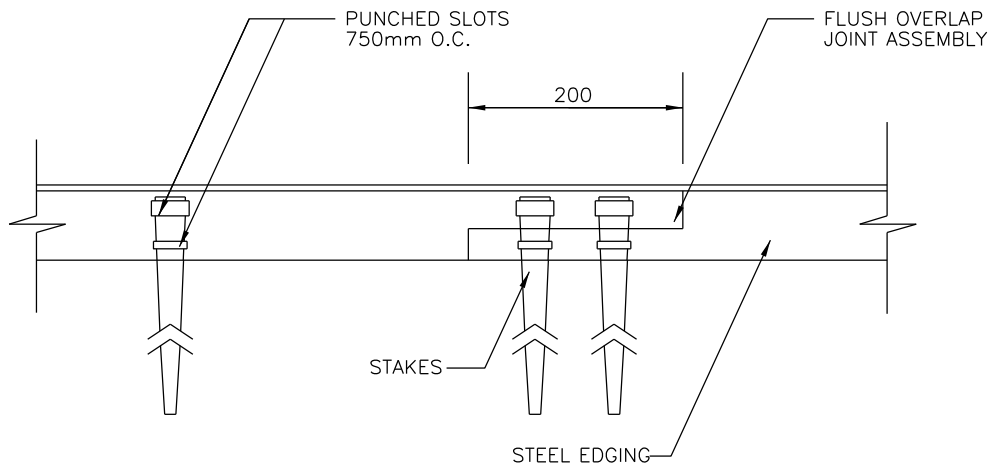
DECIDUOUS & EVERGREEN SHRUB PLANTING



GROUND COVER PLANTING

DECIDUOUS & EVERGREEN SHRUB, GROUND COVER

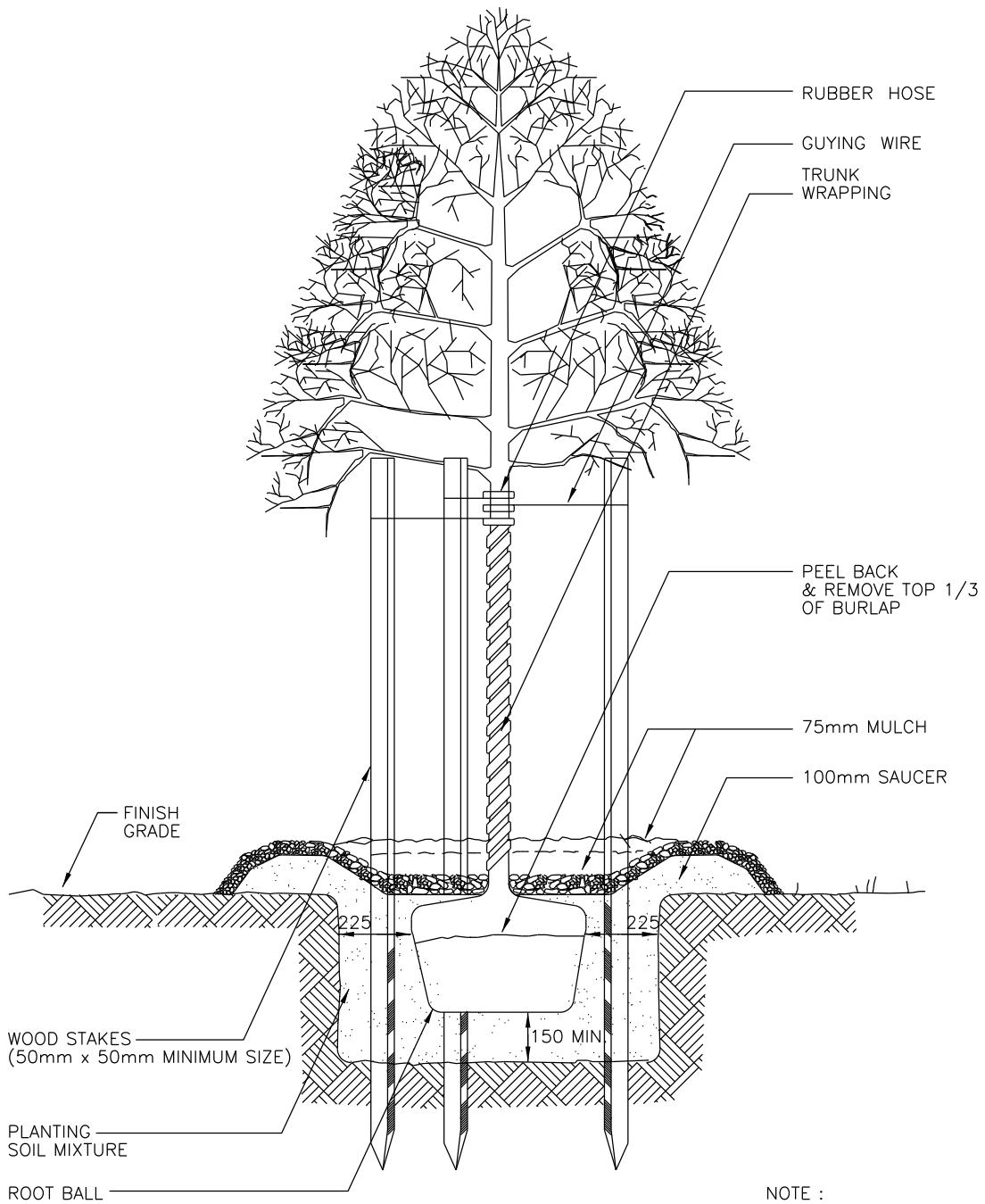
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	DECIDUOUS & EVERGREEN SHRUB, GROUND COVER	329300	C - 703



STEEL EDGING

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	STEEL EDGING	329300	C - 704

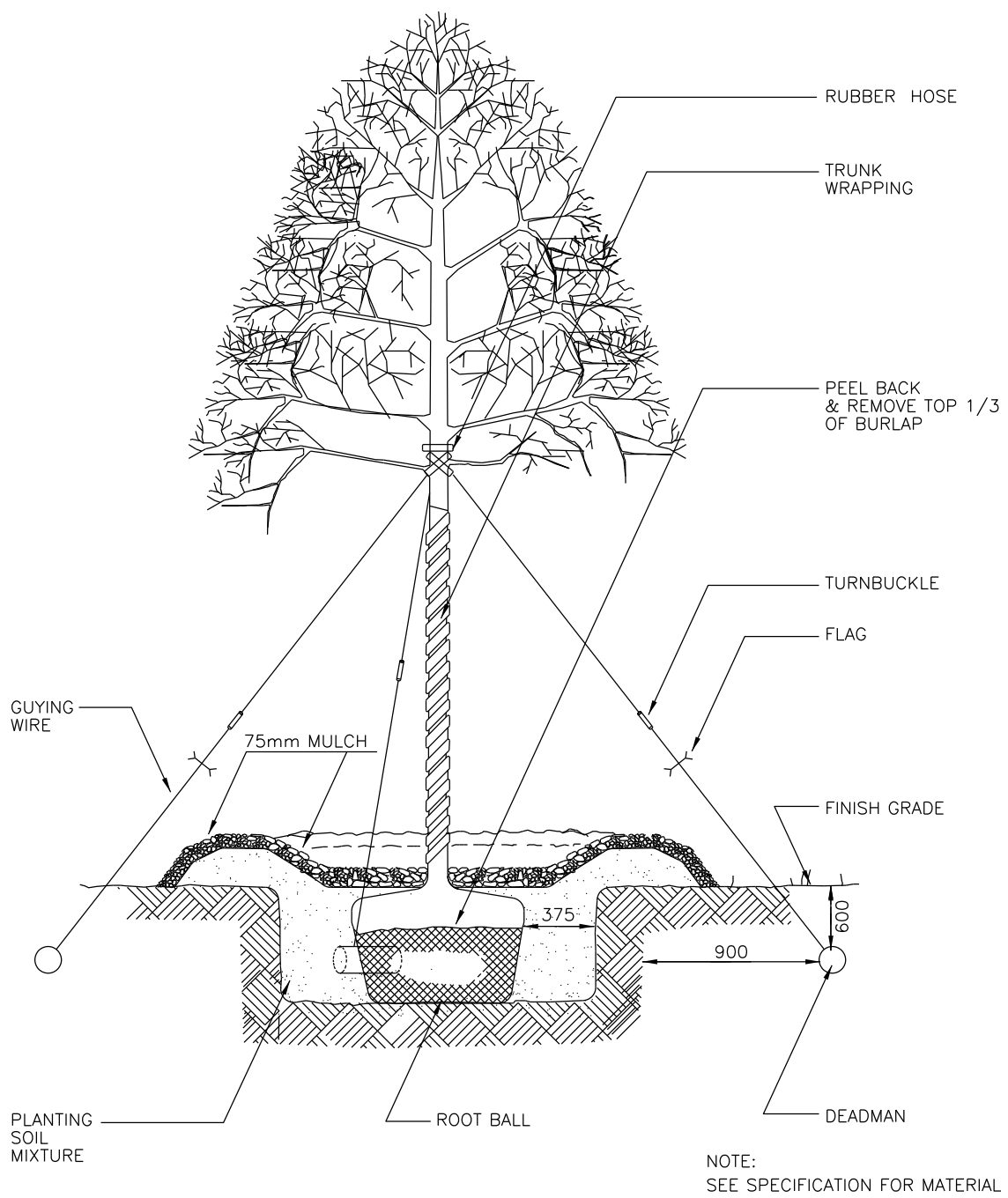
REV DATE: NOV 2015



EVERGREEN & DECIDUOUS TREES UNDER 100mm CALIPER-1

 <p>IMCOM</p>	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	EVERGREEN & DECIDUOUS TREES UNDER 100MM CALIPER-1	329300	C - 705

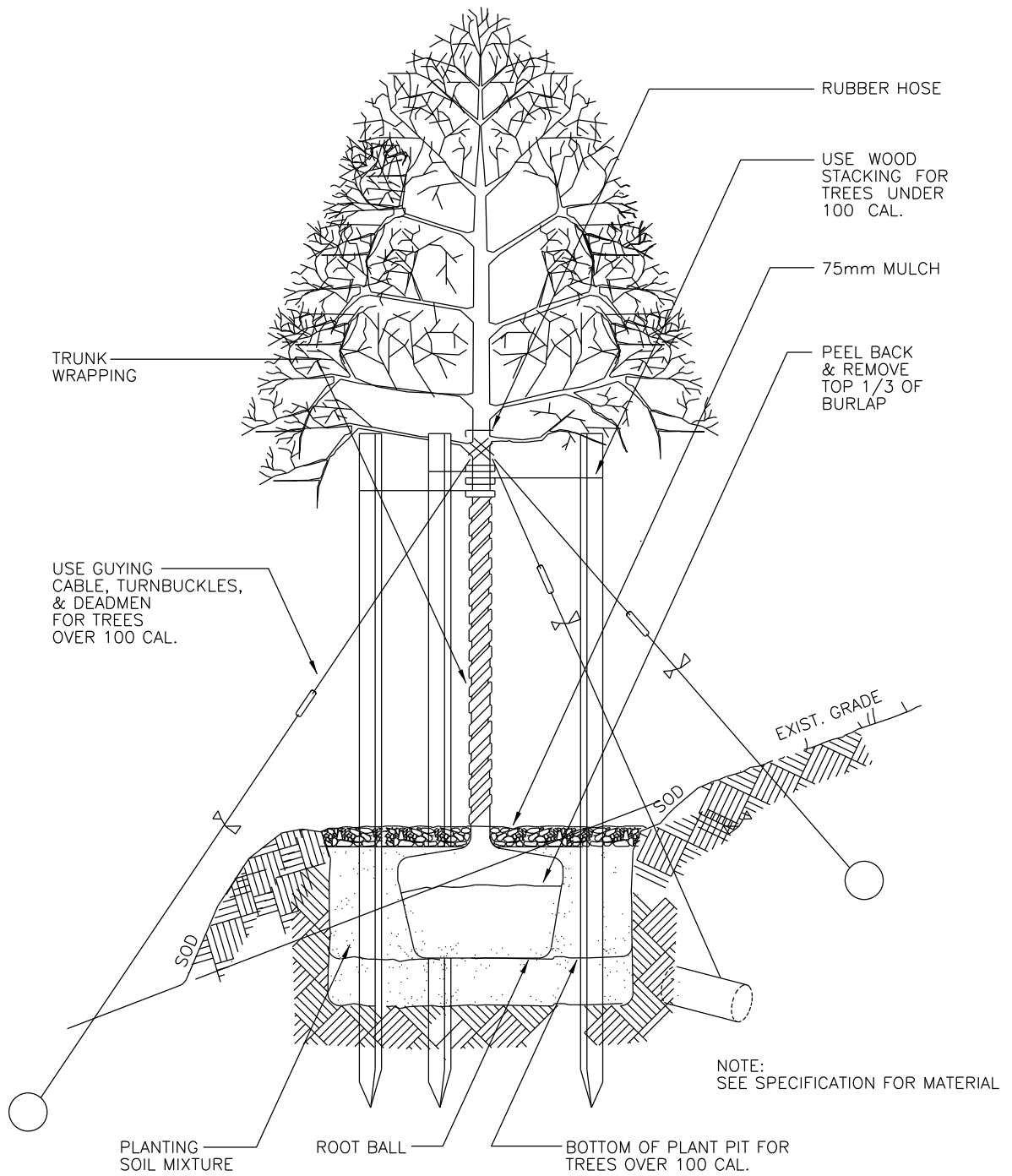
REV DATE: NOV 2015



EVERGREEN & DECIDUOUS TREES UNDER 100mm CALIPER-2

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	EVERGREEN & DECIDUOUS TREES UNDER 100MM CALIPER-2	329300	C - 706

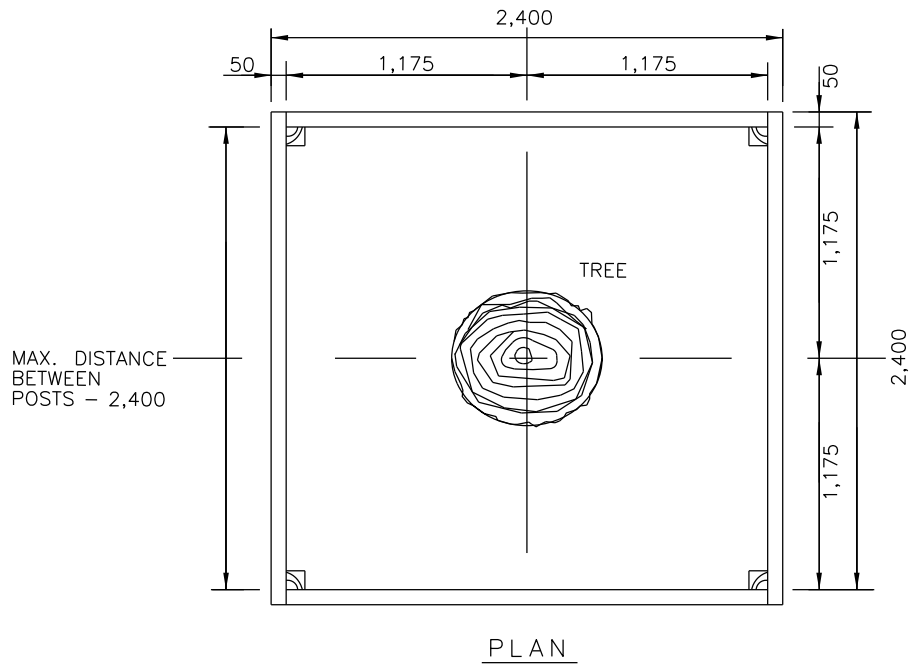
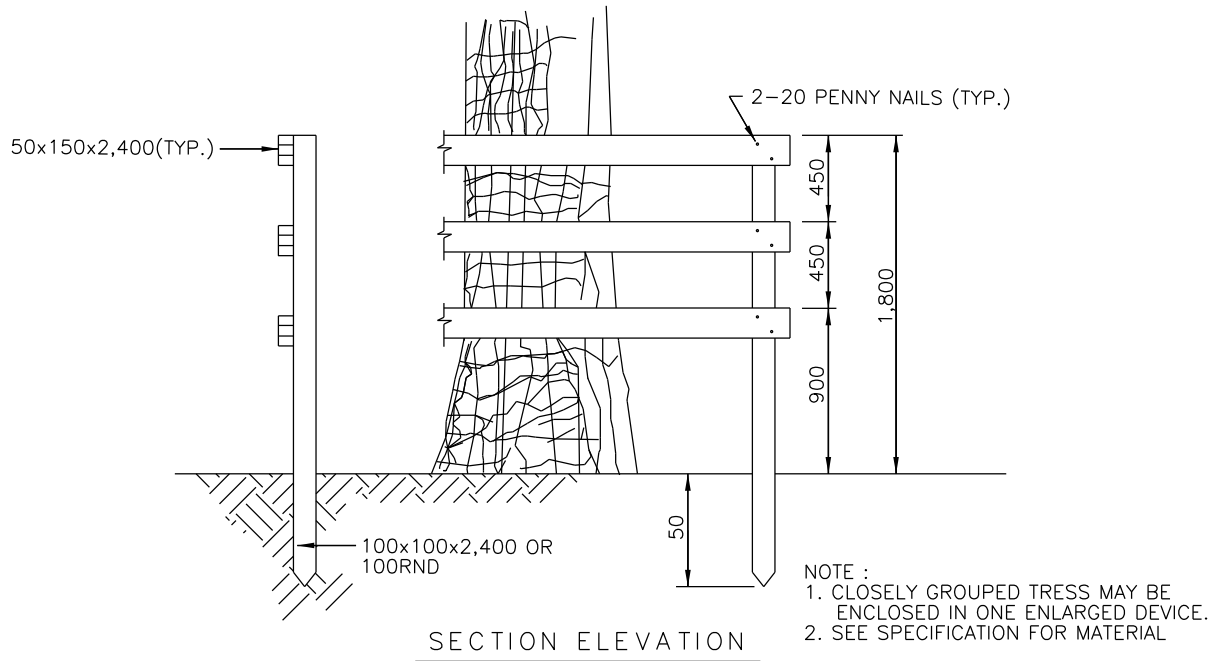
REV DATE: NOV 2015



SLOPE PLANTING, DECIDUOUS & EVERGREEN TREES

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	SLOPE PLANTING, DECIDUOUS & EVERGREEN TREES	320533	C - 707

REV DATE: NOV 2015



TREE PROTECTION DEVICE
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

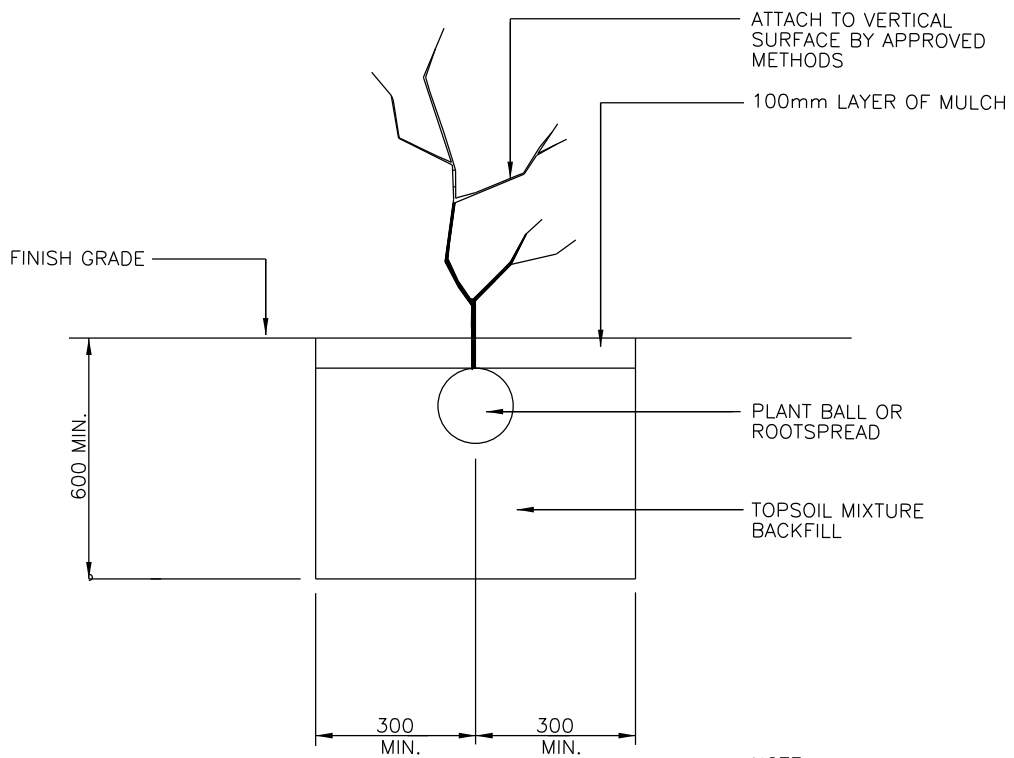
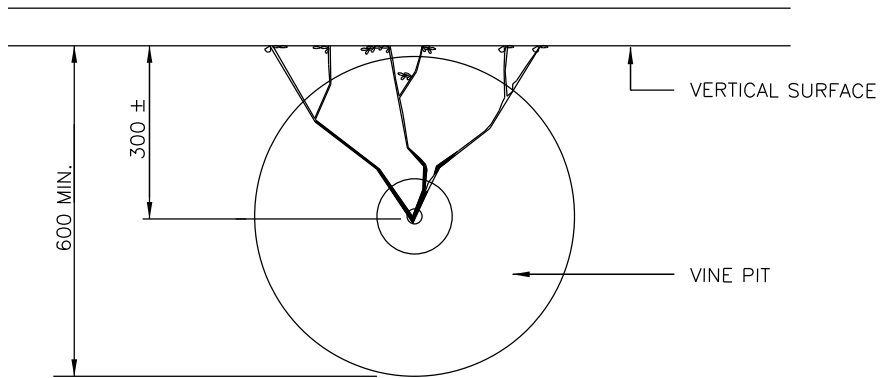
DWG NO.

TITLE

TREE PROTECTION DEVICE

329300

C - 708



NOTE :
SEE SPECIFICATION FOR MATERIAL

VINE PLANTING
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	VINE PLANTING	329300	C - 709



O&MA STANDARD DETAILS, KOREA

OMA SPEC

DWG NO.

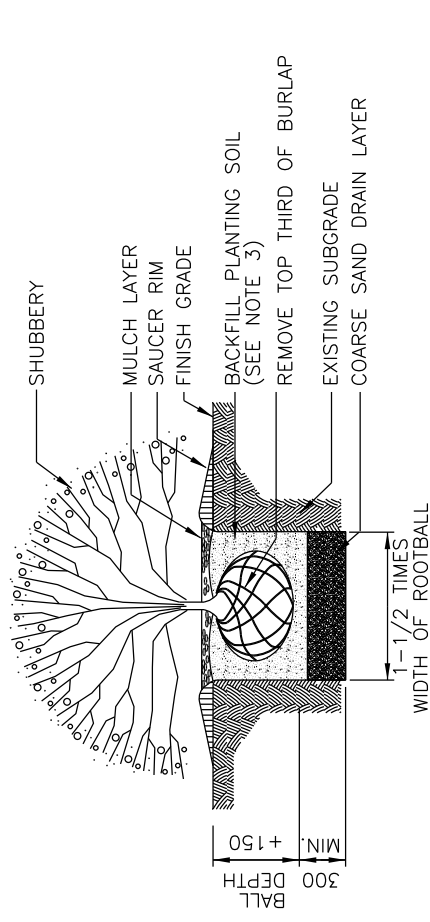
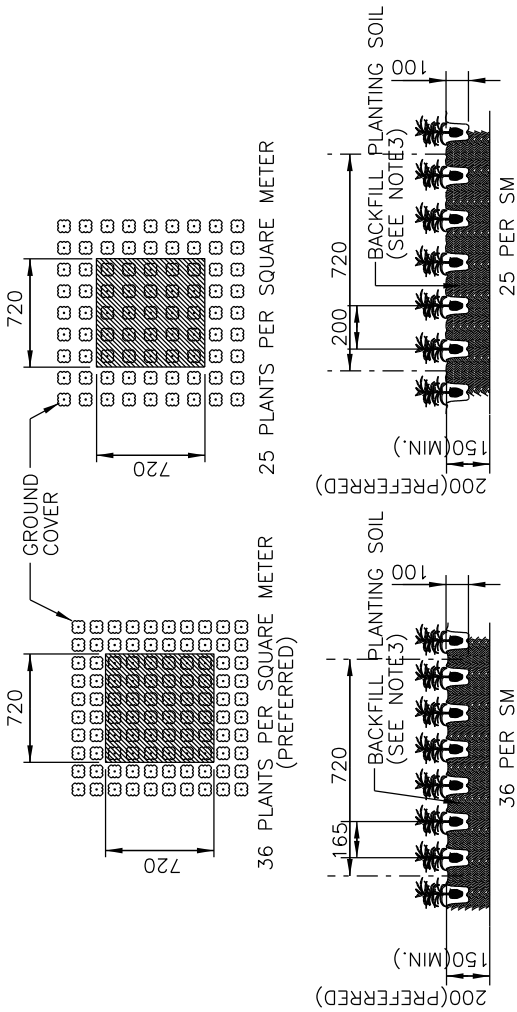
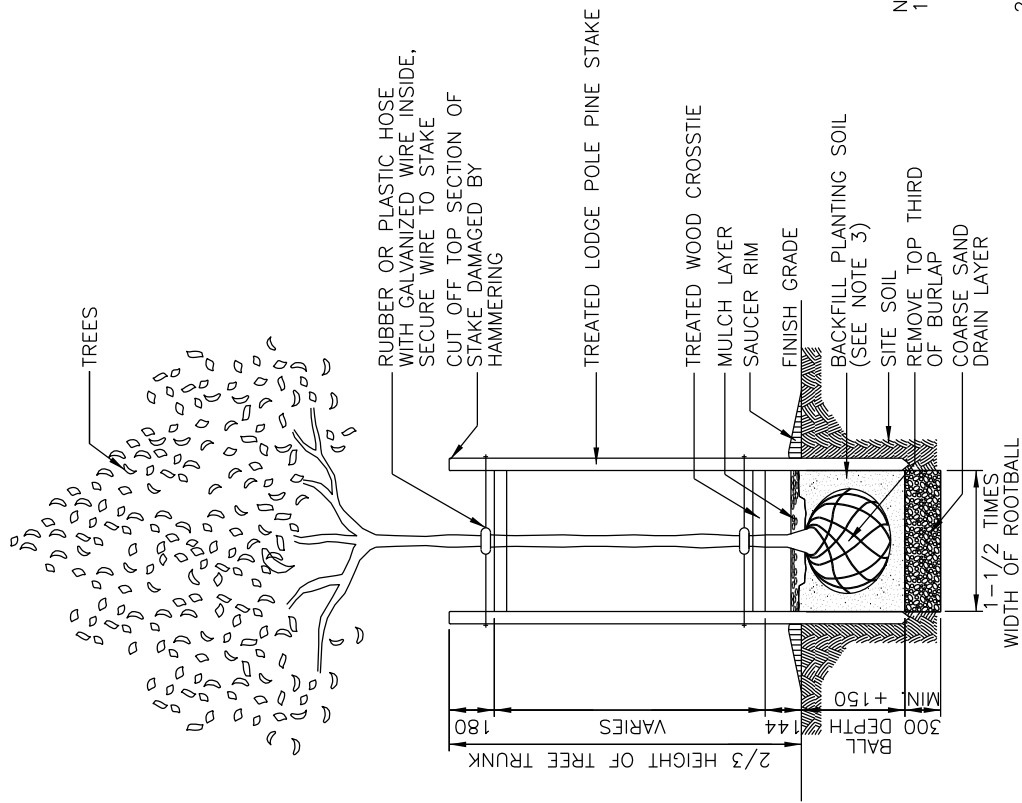
TITLE

WOOD STAKE TREE DETAIL

329300

C - 710

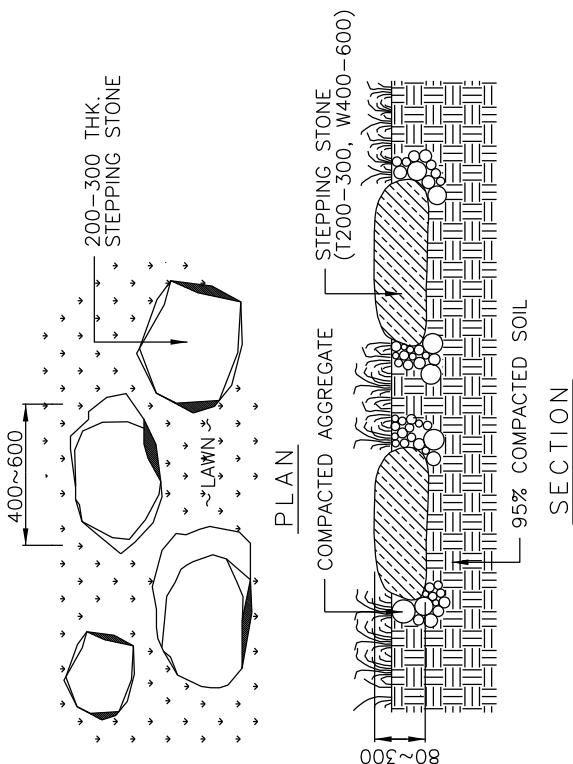
REV DATE: NOV 2015



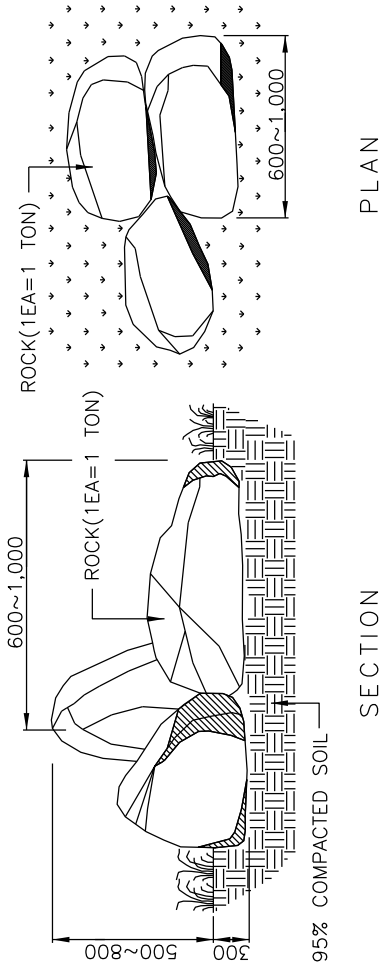
- NOTE :
1. A MIXTURE OF ORGANIC FERTILIZER INCLUDING OVER 5% ORGANIC MATTER IS TO BE PROVIDED. SOIL TESTING AT USAG HUMPHREYS INDICATES SOIL AVERAGE 0.5% OF ORGANIC MATERIAL. CALCULATION EXAMPLE : ACCORDING TO THE CALCULATION IN NOTE 2 BELOW, 20KG ORGANIC FERTILIZER X 4.5(%) = 90KG ORGANIC FERTILIZER REQUIRED PER CUBIC METER OF SAND AND SOIL MIXTURE TO ACHIEVE 5% TOTAL ORGANIC MATTER.
 2. 20KG FERTILIZER MIXTURE PER 1 CUBIC METER SHALL BE PROVIDED TO INCREASE TO 1% OF ORGANIC MATTER.
 3. USE REQUIRED AMOUNT OF ORGANIC FERTILIZER MIXTURE PER 1 CUBIC METER OF SOIL AND SAND MIXTURE (SOIL 40% AND SAND 60%) AS NEEDED TO ACHIEVE 5% ORGANIC MATTER PER NOTE 2 ABOVE FOR ALL BACKFILL PLANTING AT USAG HUMPHREYS.

WOOD STAKE TREE DETAIL

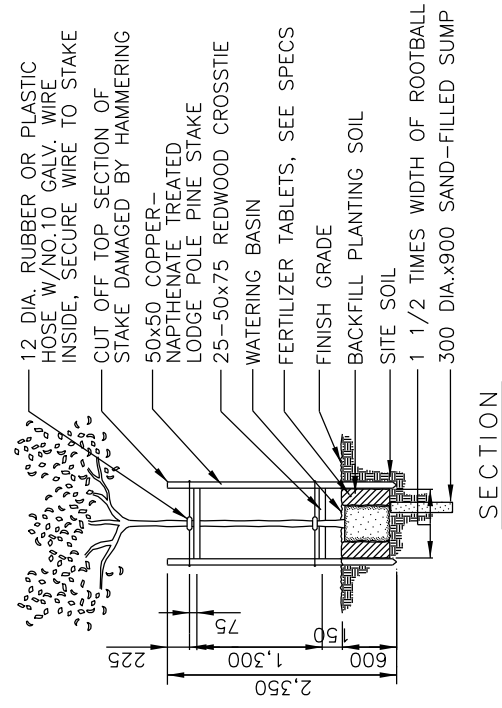
NOT TO SCALE



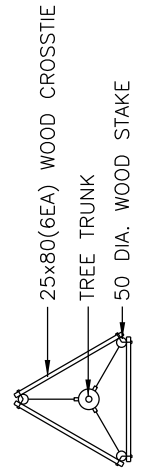
STEPPING STONE
NOT TO SCALE



NATURAL ROCK WORK(TYP.)
NOT TO SCALE



TREE WOOD STAKE DETAIL
NOT TO SCALE



TREE WOOD STAKE DETAIL
NOT TO SCALE

CLASSIFICATION	UNIT	QUANTITY(Kg)	REMARK
TREE	EA	47.76	
R25-29cm	EA	30.57	
R20-24cm	EA	17.20	
R15-19cm	EA	7.64	
R10-14cm	EA	38.68	
B10-14cm	EA	17.20	
H5.1-6.0cm	EA	20.00	
R3.6-5.0cm	EA	12.00	
R2.6-3.5cm	EA	6.00	
R2.0-2.5cm	EA	4.00	
SHRUB	EA	1.00	
LAWN	SM	1.00	

INVENTORY OF FERTILIZER

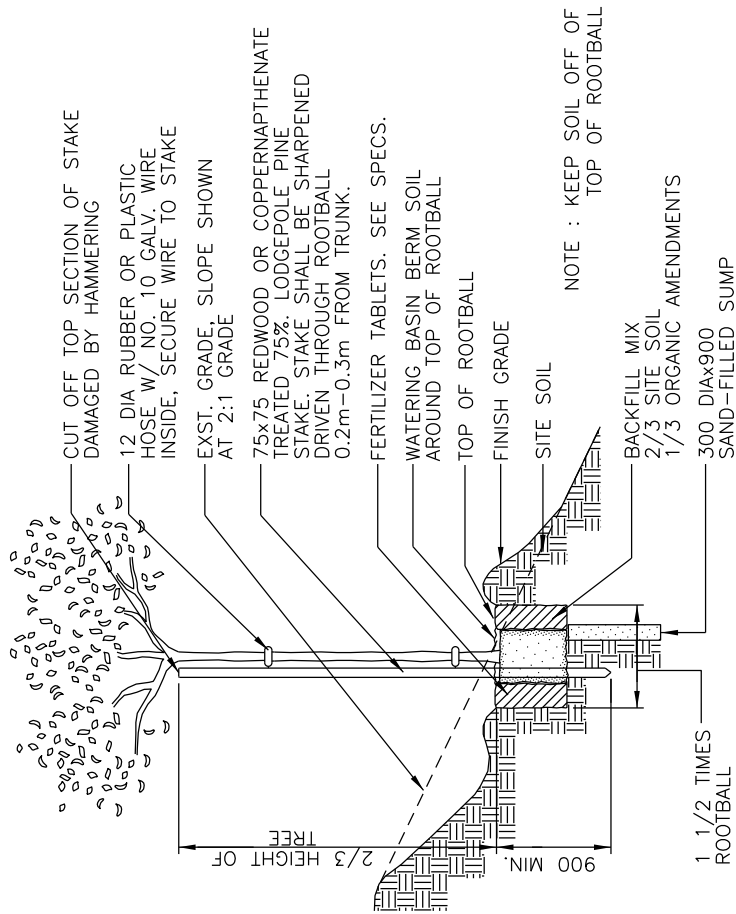


O&MA STANDARD DETAILS, KOREA

TITLE	STEPPING STONE, NATURAL ROCK WORK AND TREE WOOD STAKE DETAIL
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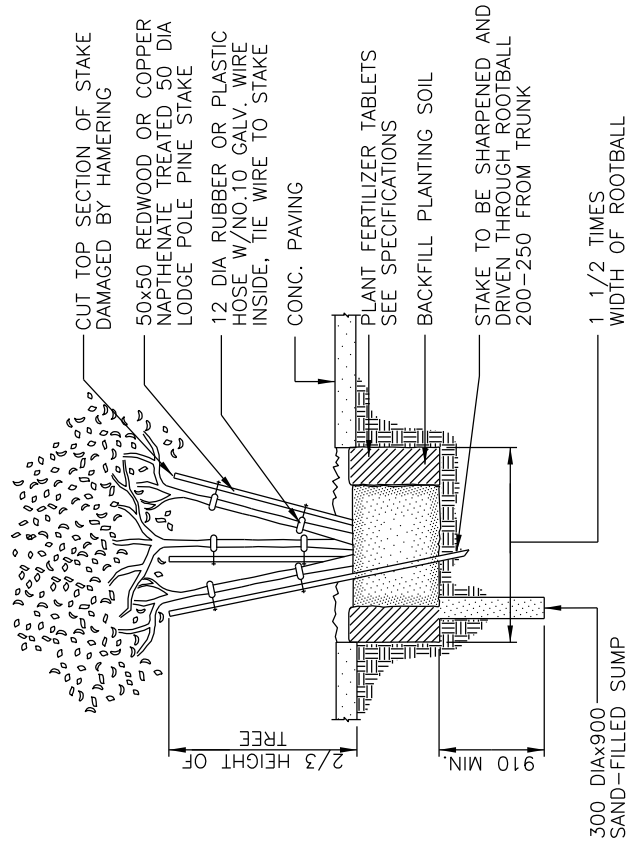
OMA SPEC	329300
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DWG NO.	C - 711
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TREE ON-SLOPE PLANTING DETAIL

NOT TO SCALE



WOOD STAKE FOR MULTI-TRUNK TREE

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

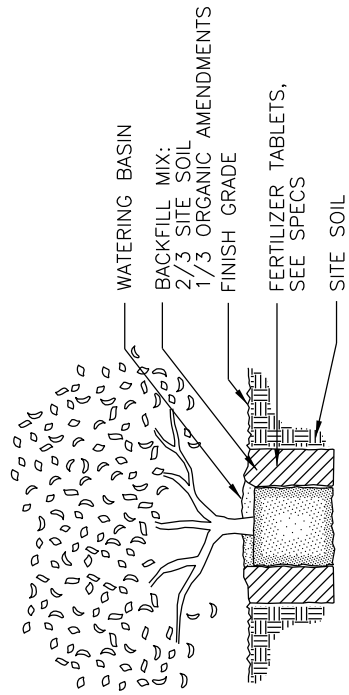
TREE ON-SLOPE PLANTING AND WOOD STAKE FOR MULTI-TRUNK TREE

OMA SPEC

329300

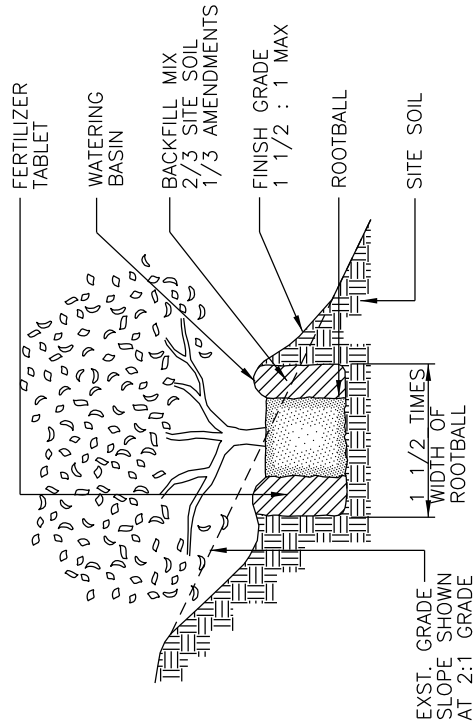
DWG NO.

C - 712



NOTE :
KEEP TOP OF ROOTBALL & TOP OF FINISH GRADE AT SAME LEVEL.

SHRUB PLANTING DETAIL
NOT TO SCALE



SHRUB ON-SLOPE PLANTING DETAIL
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

SHRUB ON-SLOPE PLANTING DETAIL AND
SHRUB PLANTING DETAIL

OMA SPEC

329300

DWG NO.

C - 713



O&MA STANDARD DETAILS, KOREA

OMA SPEC

DWG NO.

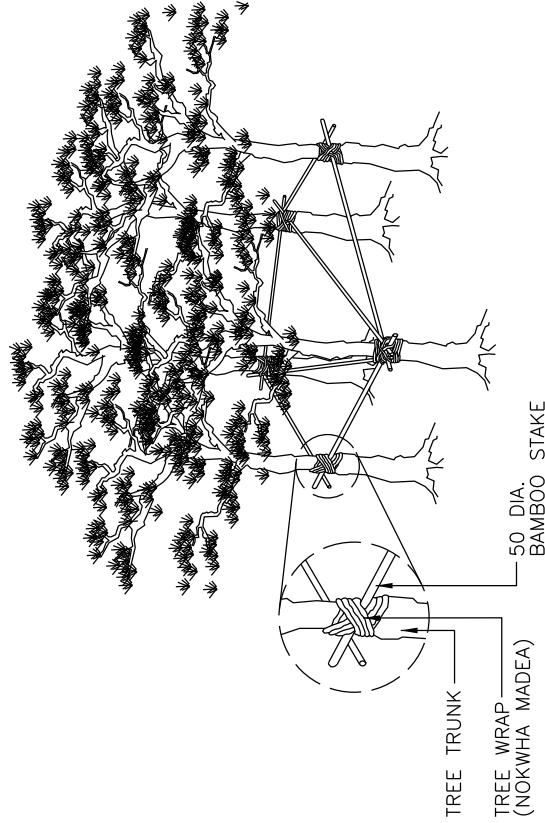
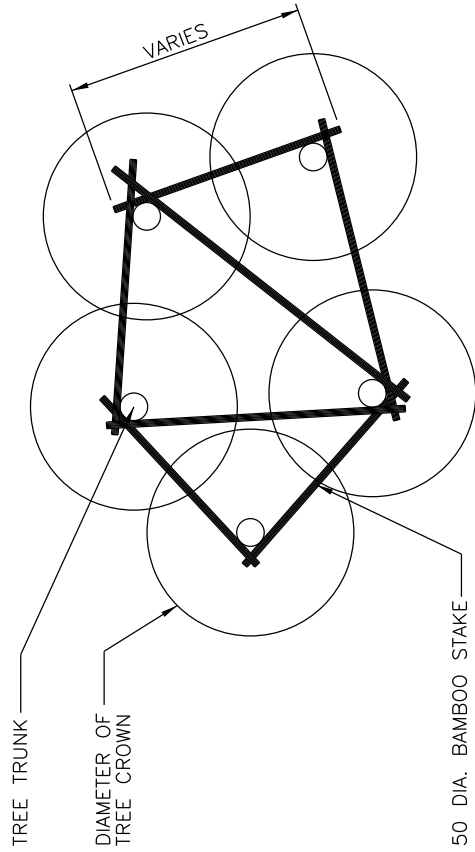
TITLE

TREE GUYING-48" BOX & LARGER AND
TREE WOOD STAKE FOR PINE TREE

329300

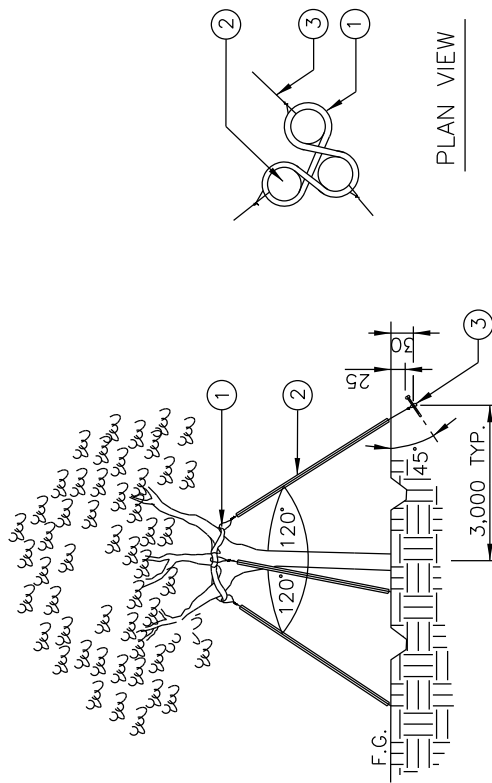
C - 714

REV DATE: NOV 2015



TREE WOOD STAKE FOR PINE TREE

NOT TO SCALE

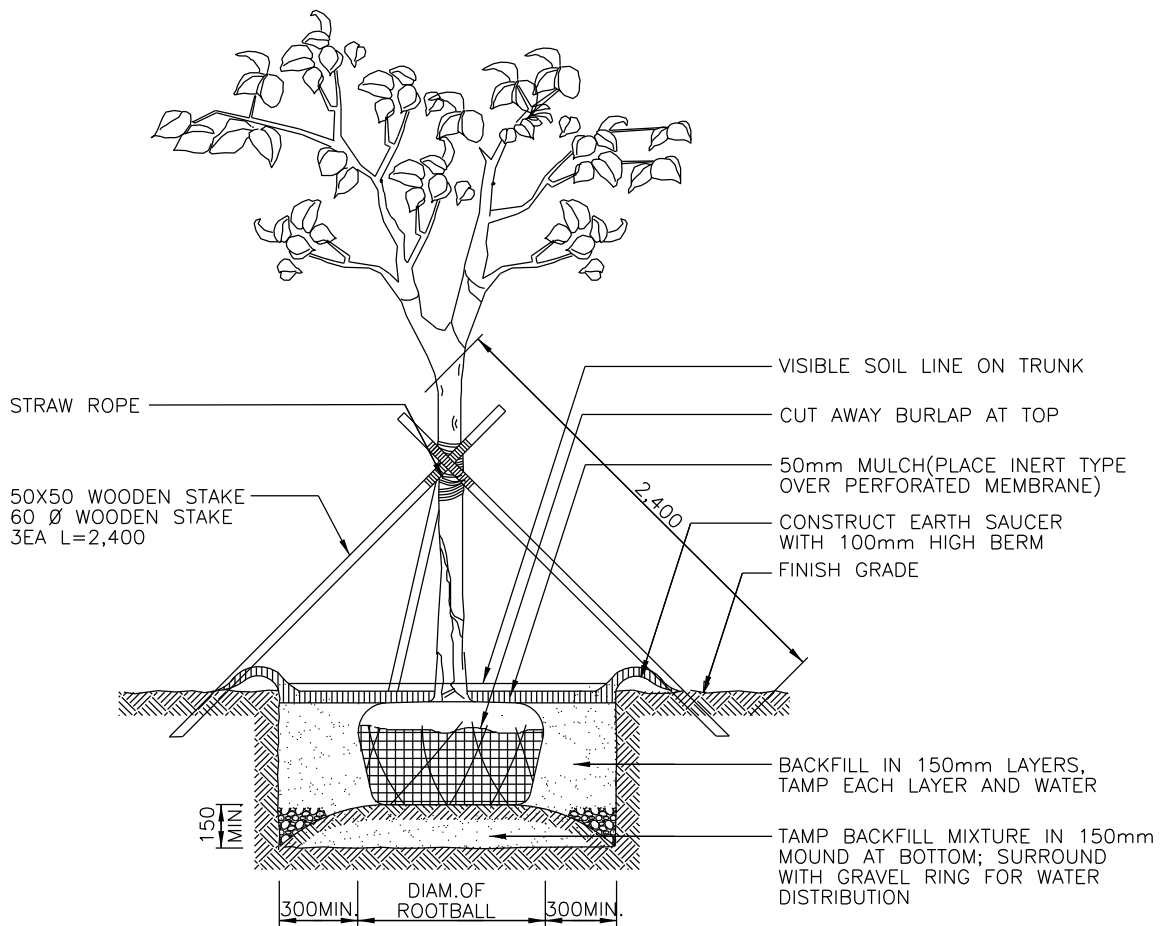


PLAN VIEW

- NOTES :
1. SET PIPE ANCHOR @ 45° W/F.G. TOP OF PIPE ANCHOR TO BE 25 BELOW FINISH GRADE.
 2. SEE PLANT LEGEND FOR TREES TO BE GUYED.
- LEGEND :
1. 12 DIA RUBBER HOSE TIE W/ 9 GA. GALV. WIRE TO PIPE ANCHOR, 3 REQUIRED @ 120° AS SHOWN.
 2. 6 DIAx1,800 LONG WHITE PVC PIPE SLEEVE TYPICAL AT EACH TIE.
 3. 20 DIAx900 LONG, GALV. PIPE ANCHOR W/CAP @ TOP, 3 REQUIRED (1 AT EACH TIE).
 4. TREE TRUNK
 5. 9 GA. GALV. WIRE

TREE GUYING-48" BOX AND LARGER

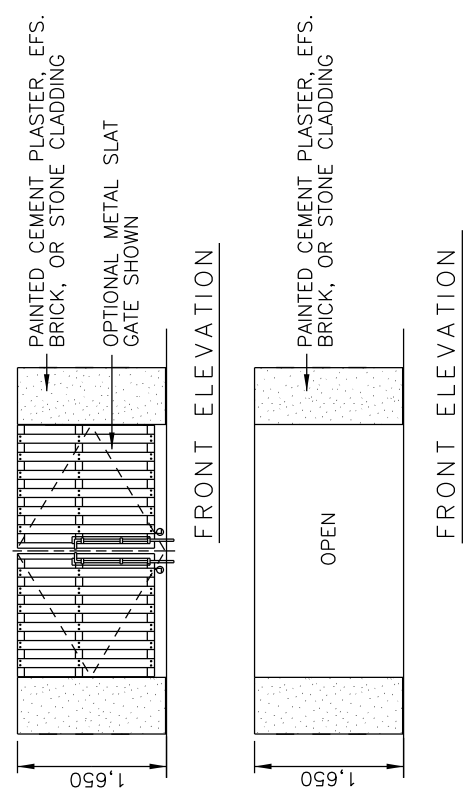
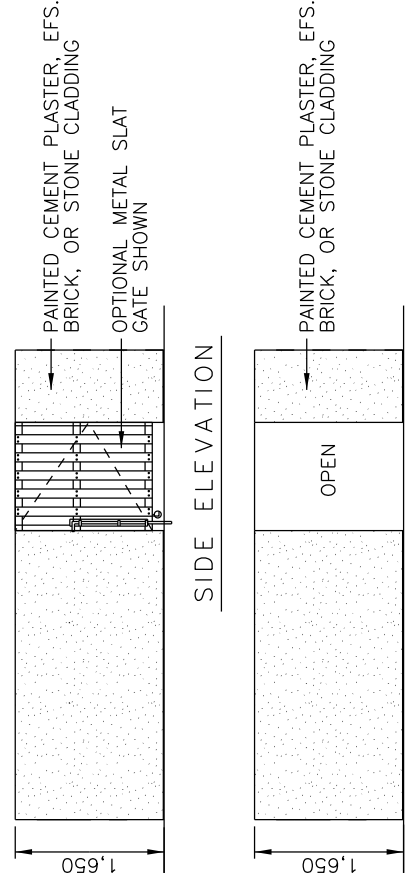
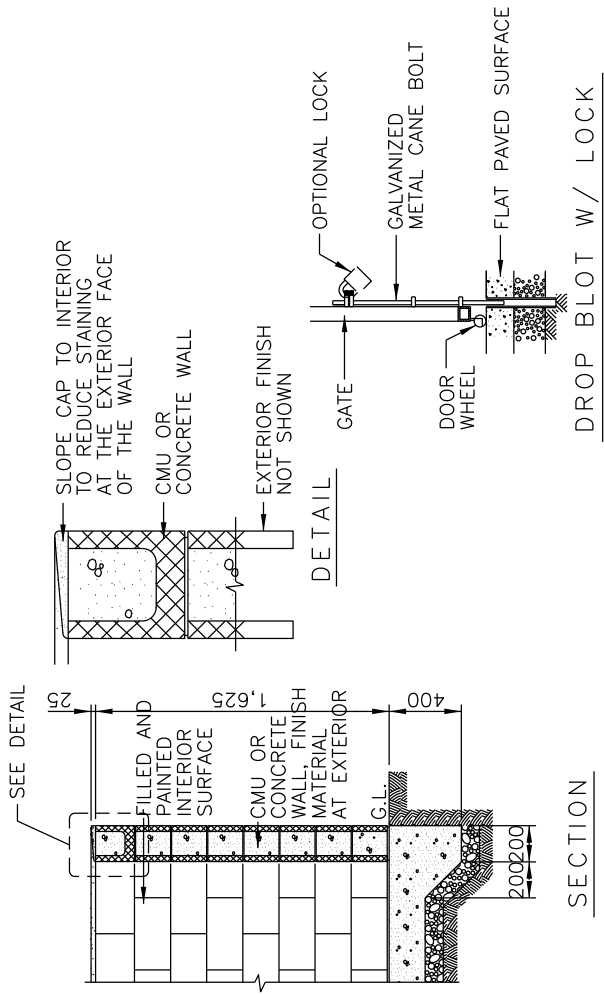
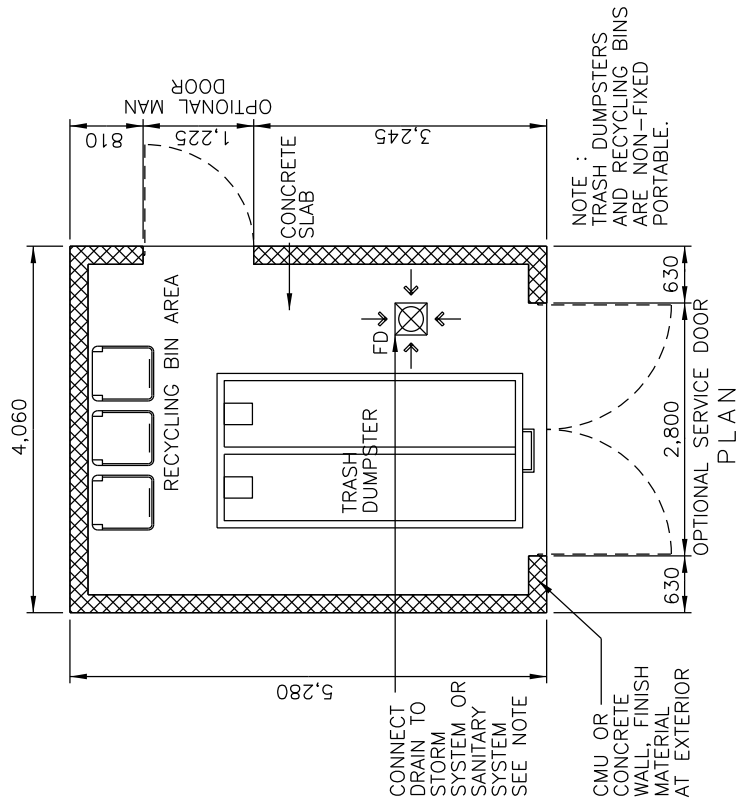
NOT TO SCALE



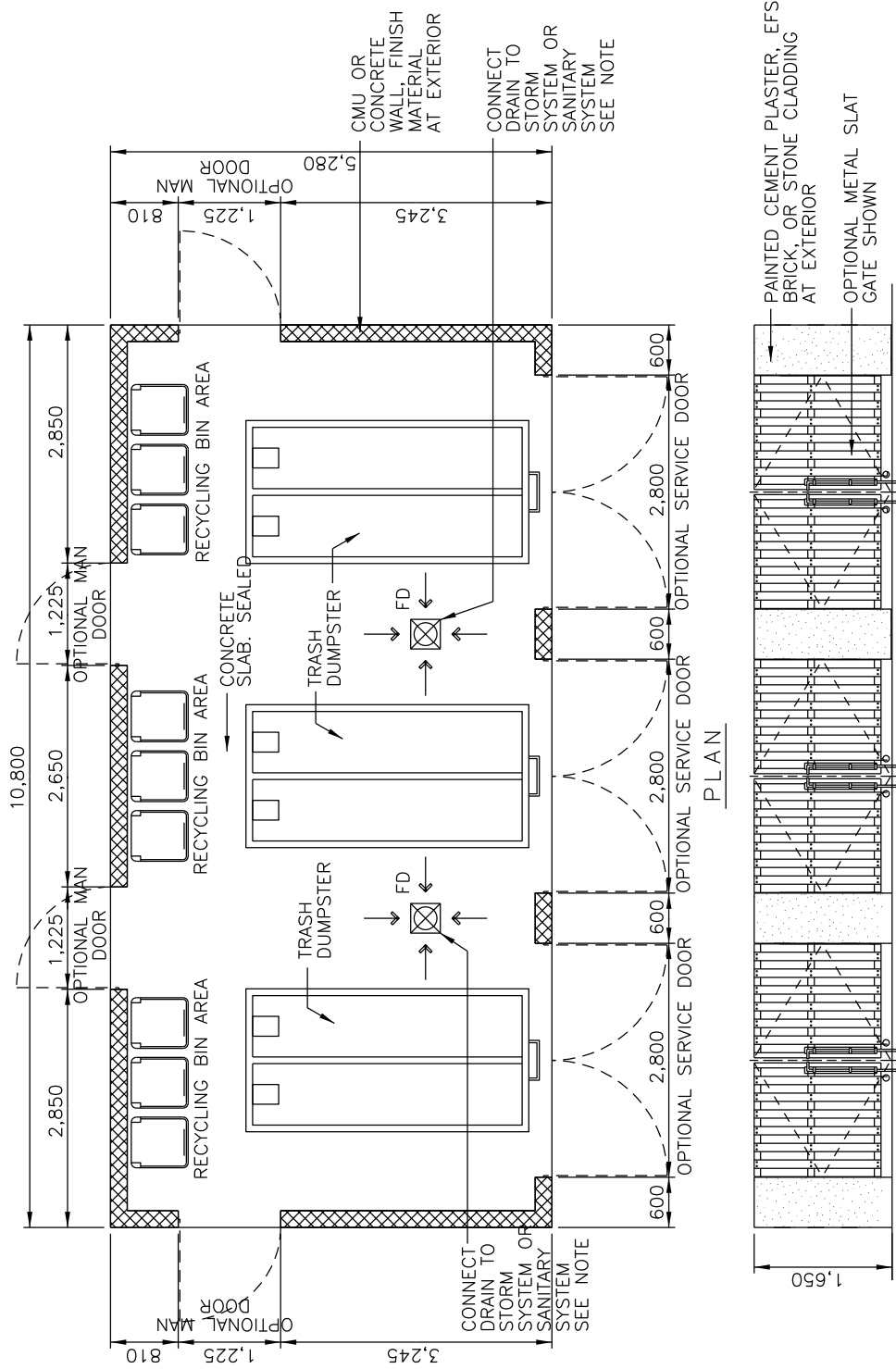
TRIANGLE WOODEN STAKE INSTALLATION DETAIL (1.8M & HIGHER)
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TRIANGLE WOODEN STAKE INSTALLATION DETAIL (1.8M AND HIGHER)	329300	C - 715

NOTE :
 1. SEE EXTERIOR COLORS AND MATERIALS IN IPS FOR THE ENCLOSURE FINISH COLORS.
 2. PROVIDING FLOOR DRAIN IS TO BE VERIFIED BY DESIGNER.



	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	DUMPSTER ENCLOSURE SINGLE TYPE	N/A	C - 716



NOTE:
 1. SEE EXTERIOR COLORS AND MATERIALS IN IPS FOR THE ENCLOSURE FINISH COLORS.
 2. PROVIDING FLOOR DRAIN IS TO BE VERIFIED BY DESIGNER.



O&MA STANDARD DETAILS, KOREA

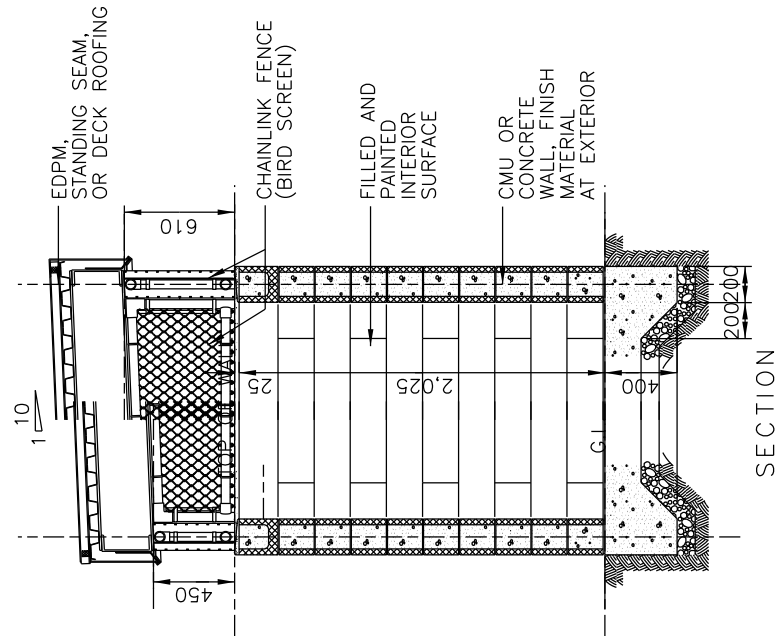
TITLE DUMPSTER ENCLOSURE DOUBLE/MULTI TYPE

OMA SPEC

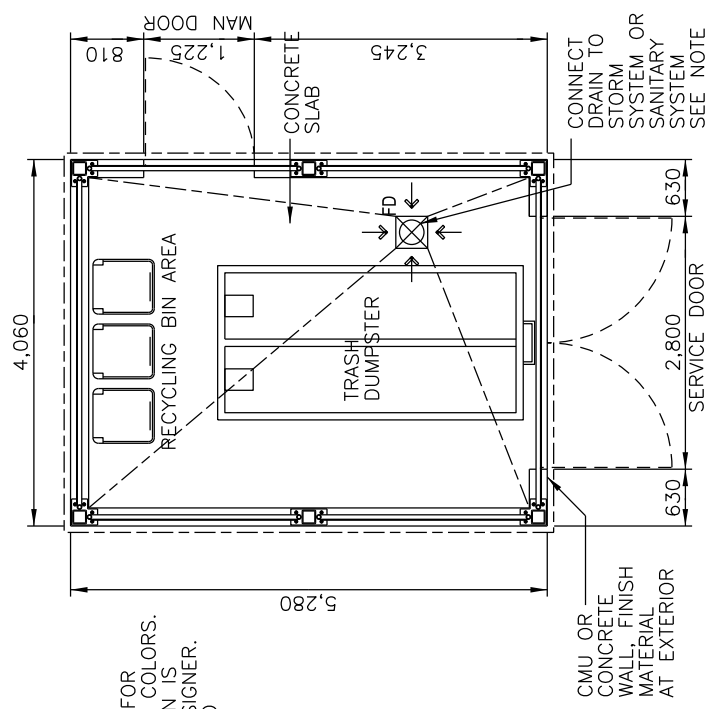
N/A

DWG NO.

C - 717

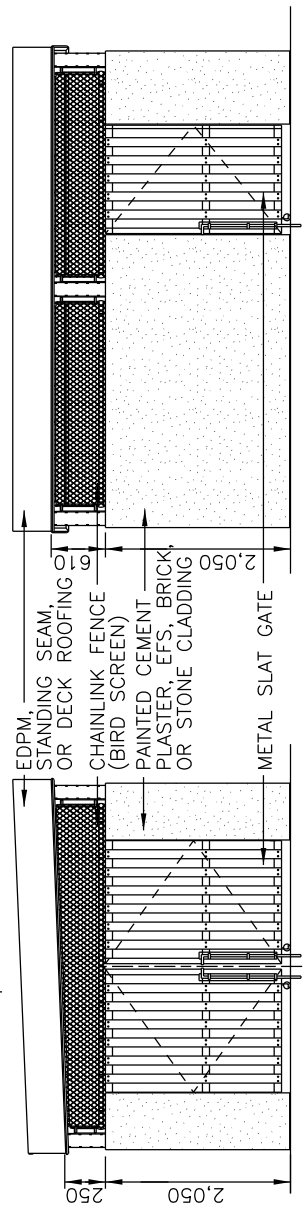


SECTION



PLAN

NOTE :
 1. SEE EXTERIOR COLORS AND MATERIALS IN IPS FOR THE ENCLOSURE FINISH COLORS.
 2. PROVIDING FLOOR DRAIN IS TO BE VERIFIED BY DESIGNER.
 3. TRASH DUMPSTERS AND RECYCLING BINS ARE NON-FIXED PORTABLE.



FRONT ELEVATION

SIDE ELEVATION

DROP BLOT W/ LOCK

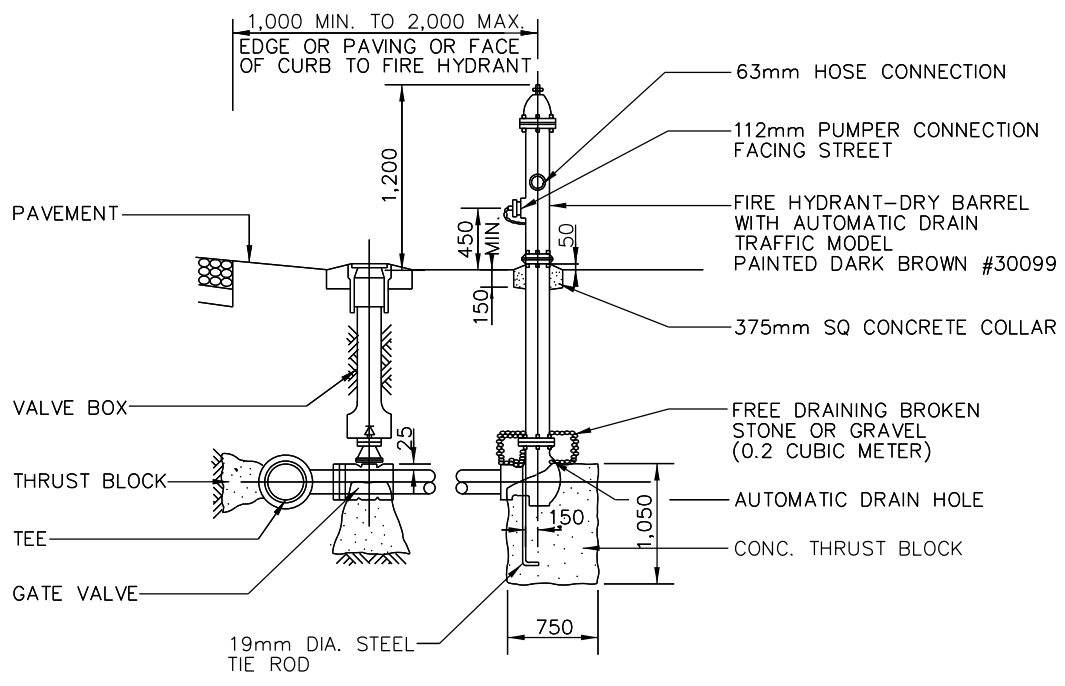


O&MA STANDARD DETAILS, KOREA

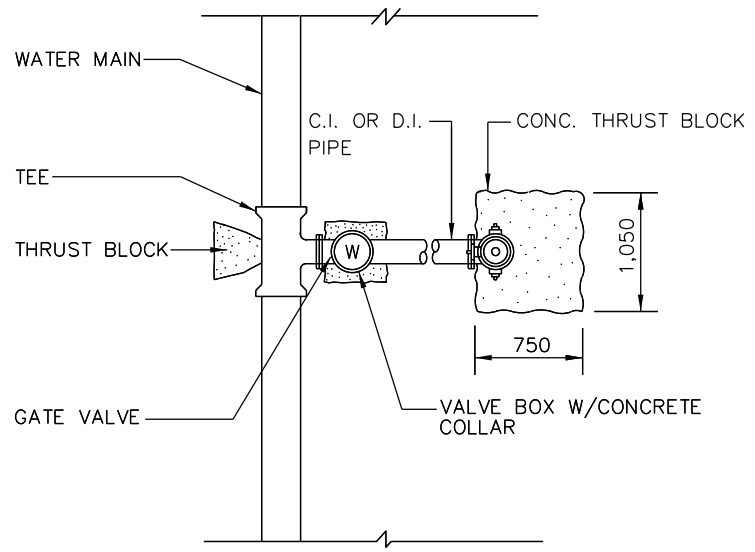
TITLE	DUMPSTER ENCLOSURE WET TYPE (DFAC TYPE)
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OMA SPEC	N/A
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DWG NO.	C - 718
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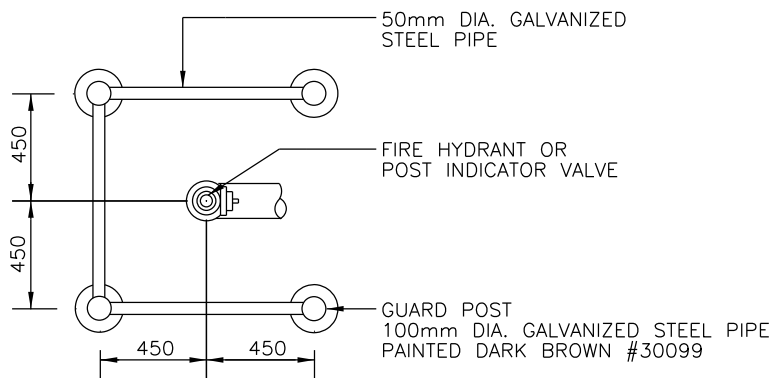
ELEVATION



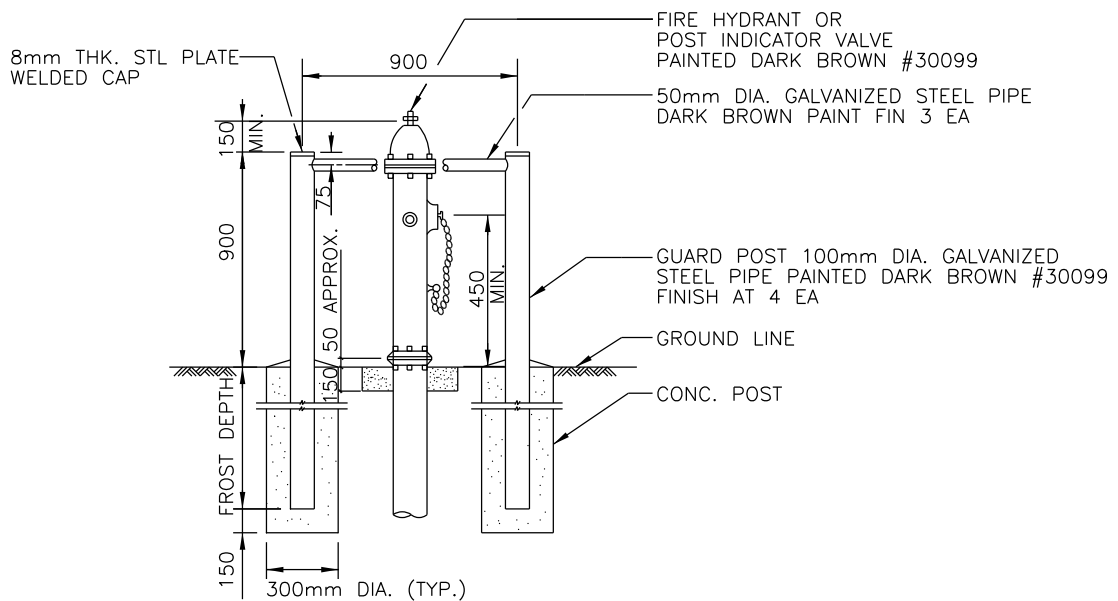
PLAN

TYPICAL FIRE HYDRANT INSTALLATION
NOT TO SCALE

	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	FIRE HYDRANT INSTALLATION, TYPICAL	331100	C - 801



GUARD POST PLAN

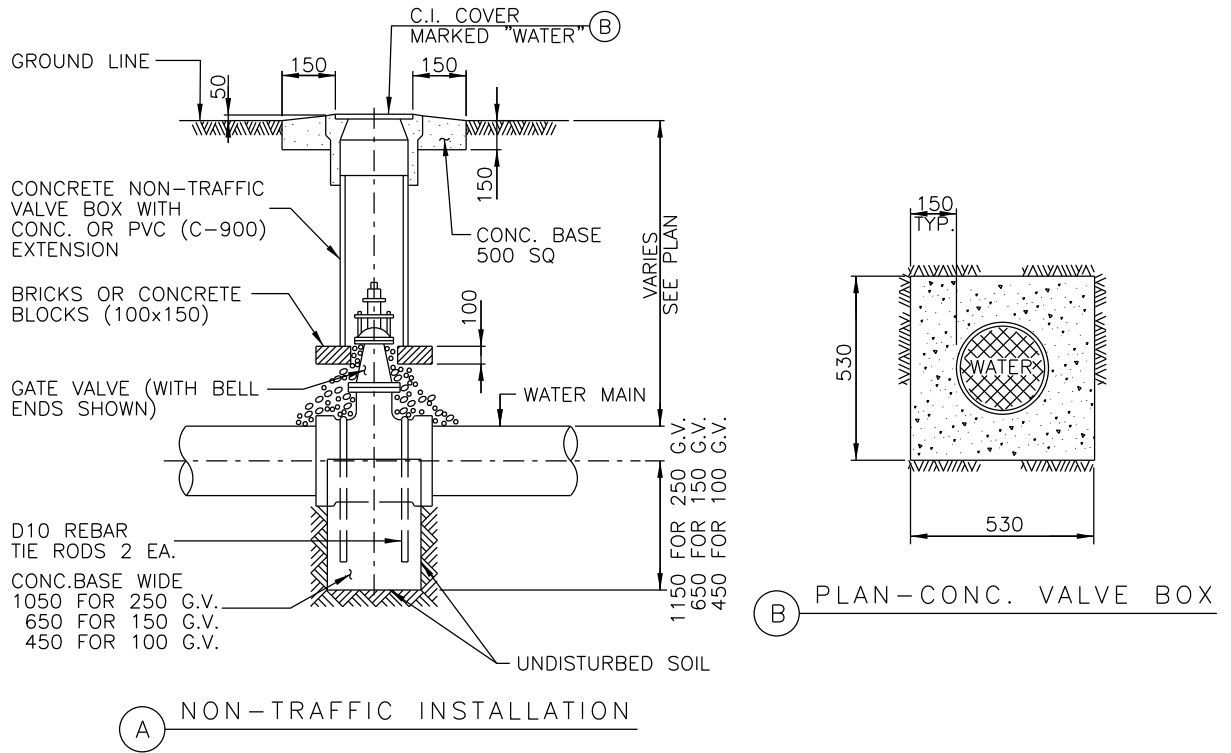


GUARD POST SECTION

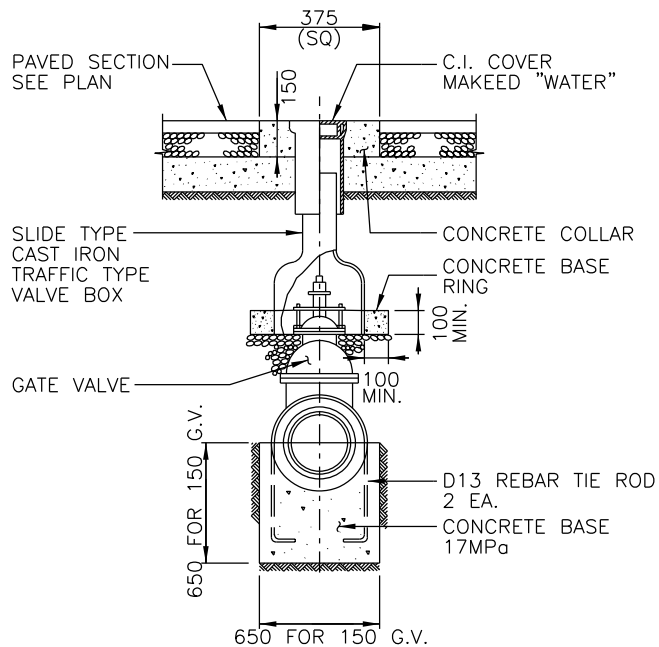
GUARD POST DETAIL

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	GUARD POST DETAIL	331100	C - 802

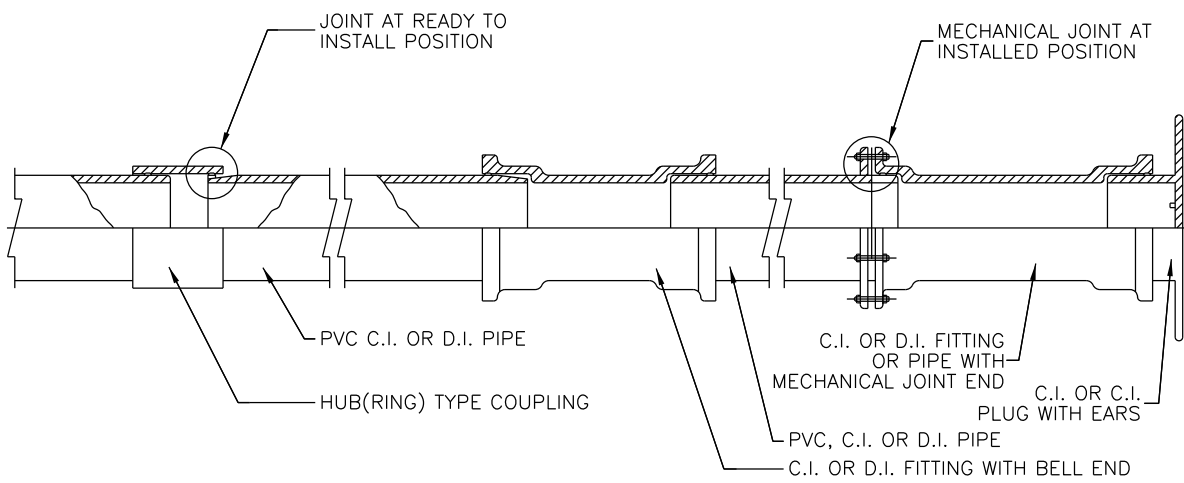
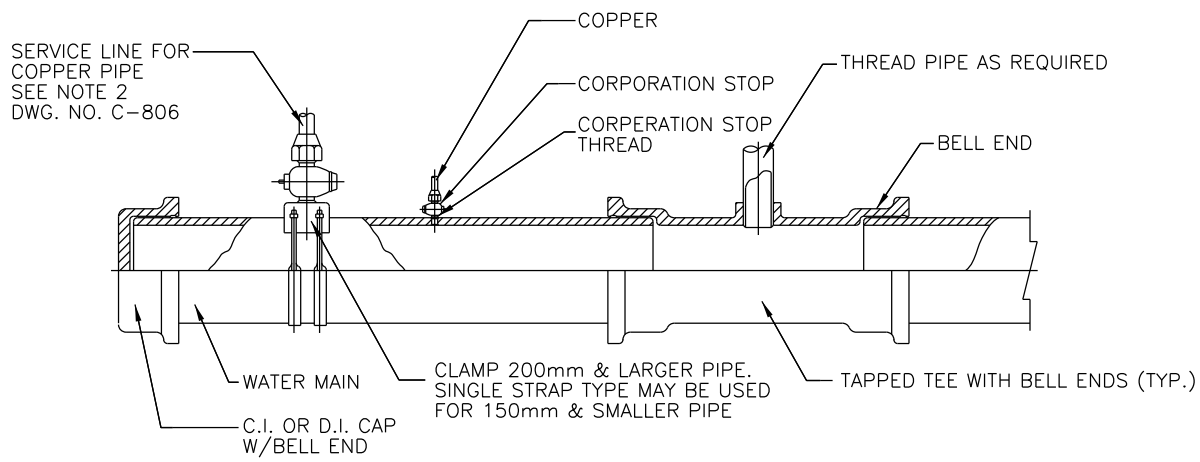


NON-TRAFFIC GATE VALVE W/VALVE BOX
NOT TO SCALE



TRAFFIC GATE VALVE W/VALVE BOX
NOT TO SCALE

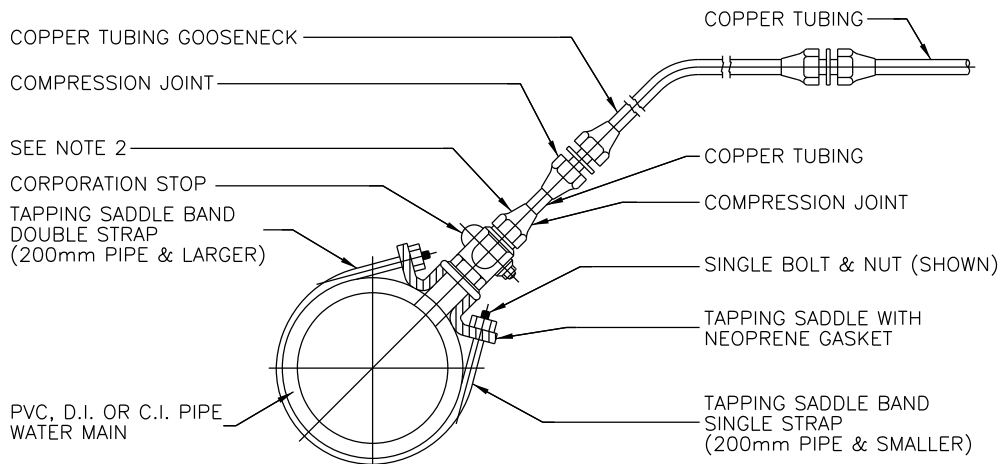
 <p>IMCOM</p>	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	NON TRAFFIC GATE VALVE W/VALVE BOX TRAFFIC GATE VALVE W/VALVE BOX	331100	C - 803



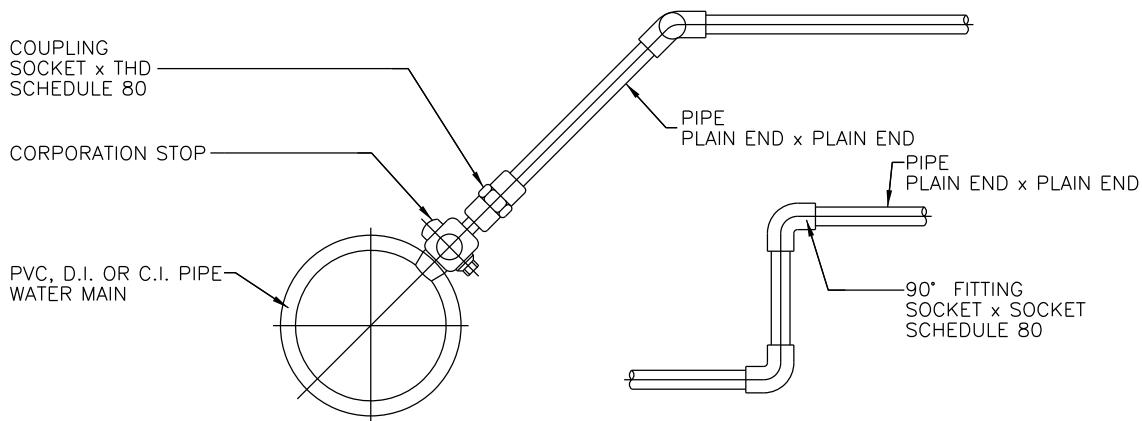
MISCELLANEOUS PIPE INSTALLATION DETAILS
NOT TO SCALE

	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	MISCELLANEOUS PIPE INSTALLATION	331100	C - 804

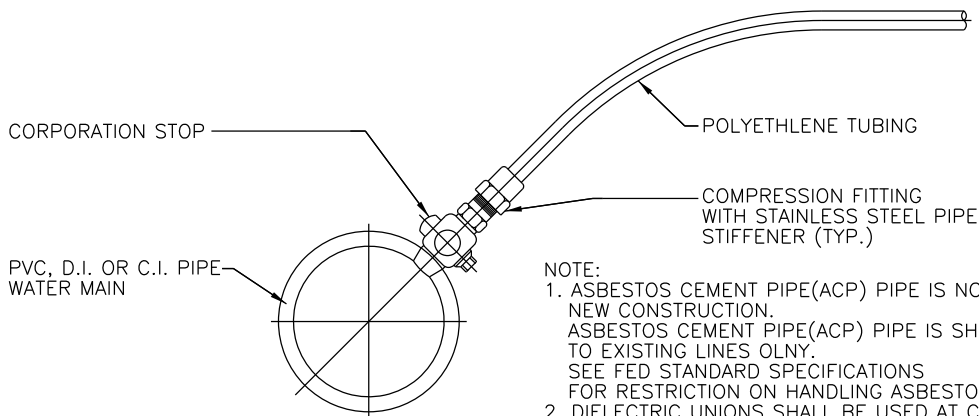
REV DATE: NOV 2015



(A) TAPPING SADDLE WITH COPPER SERVICE - 19mm TO 50mm



(B) CORPORATION STOP WITH PVC SERVICE - 19mm TO 50mm

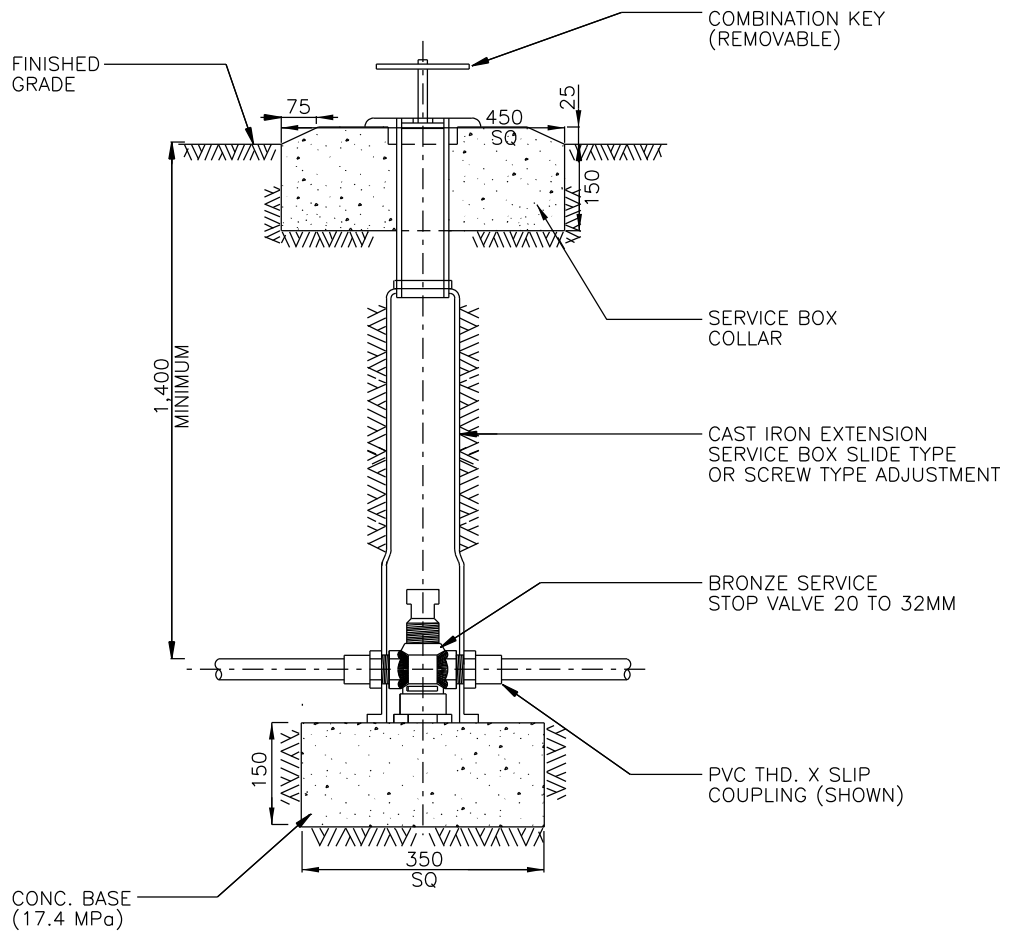


NOTE:
 1. ASBESTOS CEMENT PIPE(ACP) PIPE IS NOT ALLOWED FOR NEW CONSTRUCTION.
 ASBESTOS CEMENT PIPE(ACP) PIPE IS SHOWN HERE FOR TAPS TO EXISTING LINES ONLY.
 SEE FED STANDARD SPECIFICATIONS FOR RESTRICTION ON HANDLING ASBESTOS CEMENT PIPE(ACP) PIPE.
 2. DIELECTRIC UNIONS SHALL BE USED AT CONNECTIONS OF FERROUS WATER MAINS TO NON-FERROUS LATERALS.

(C) CORPORATION STOP WITH POLYETHYLENE SERVICE - 19mm TO 50mm

WATER SERVICE CONNECTION
 NOT TO SCALE

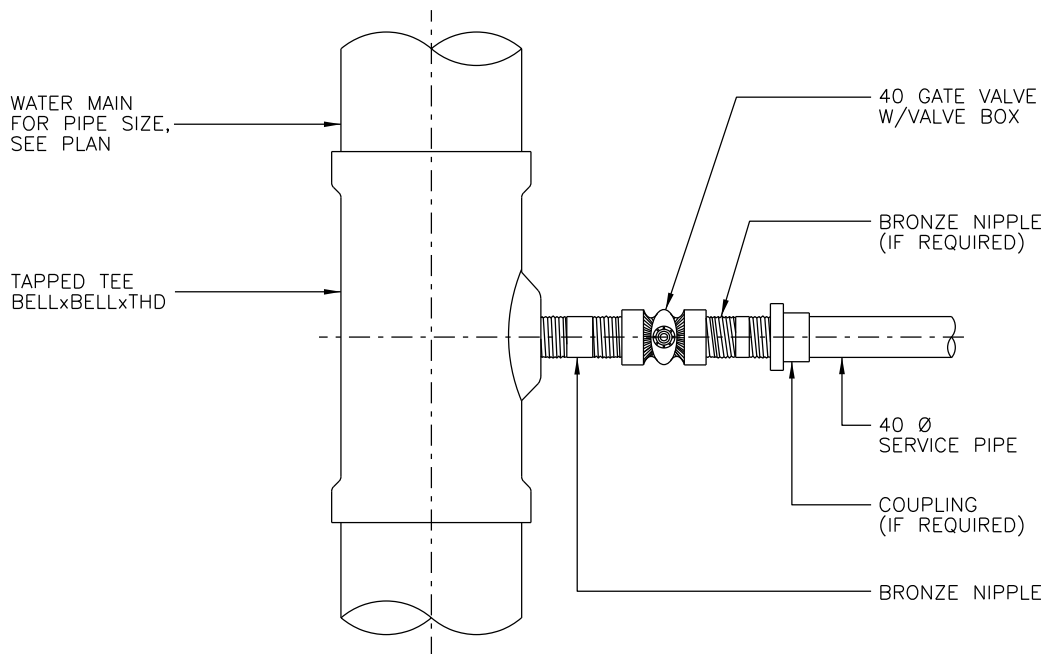
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	WATER SERVICE CONNECTION	331100	C - 805



SERVICE STOP

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL SERVICE STOP, WATER SERVICE CONNECTION	331100	C - 806

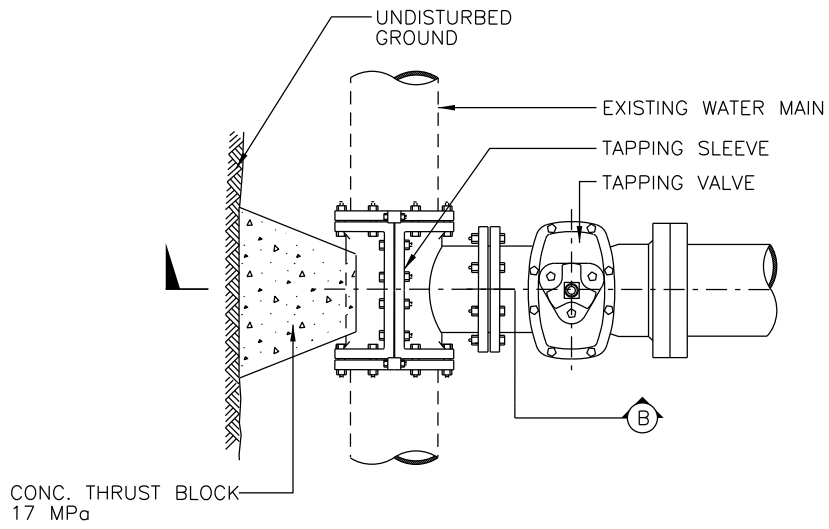
REV DATE: NOV 2015



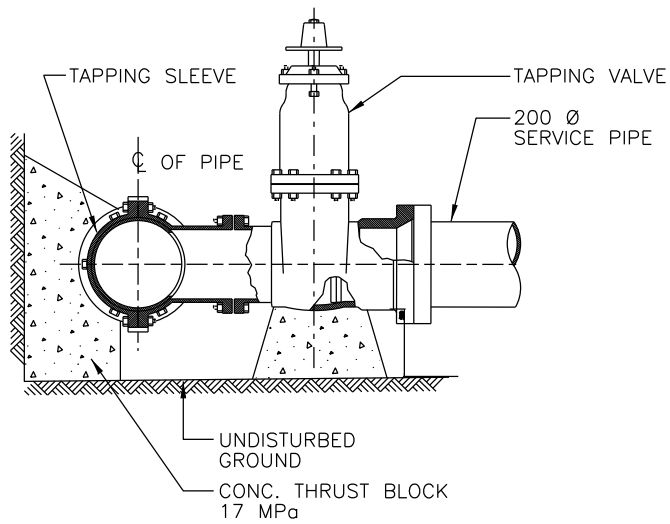
TAPPED TEE
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TAPPED TEE	331100	C - 807

REV DATE: NOV 2015



(A) PLAN

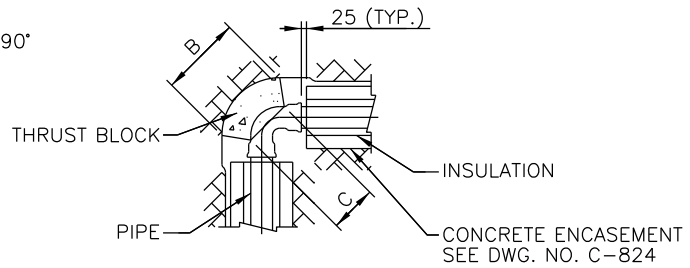
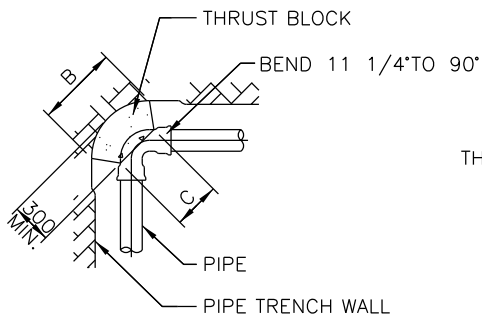


(B) SECTION

TAPPING VALVE DETAIL
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TAPPING VALVE DETAIL	331100	C - 808

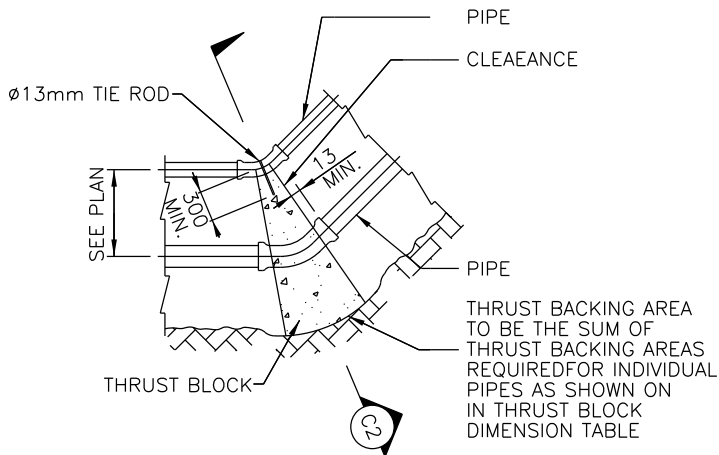
REV DATE: NOV 2015



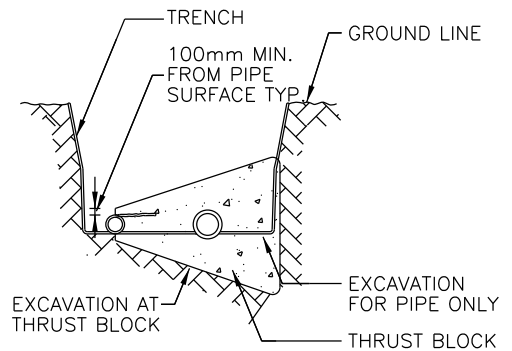
NOTE : SEE TABLE ON DWG. NO. C-812 FOR ANGLE ① ② ③ ④

① PIPE BEND - AT ANGLE ① ② ③ ④

② CONCRETE ENCASED INSULATED PIPE AT ANGLE ① ② ③ ④

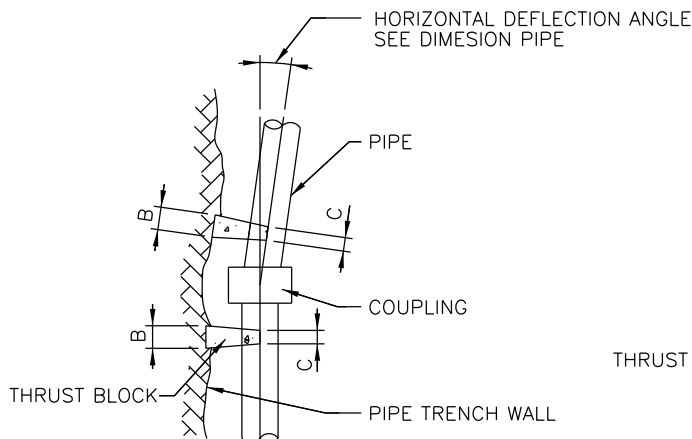


① PLAN

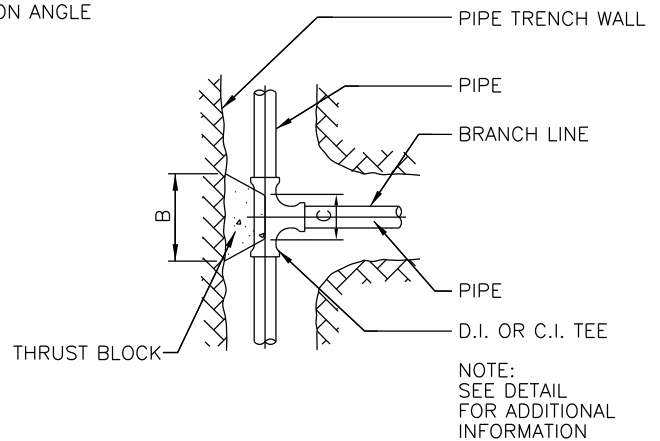


② SECTION

③ DOUBLE PIPE BEND



④ PIPE DEFLECTION ⑤



⑤ TEE ⑥

THRUST BLOCK
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

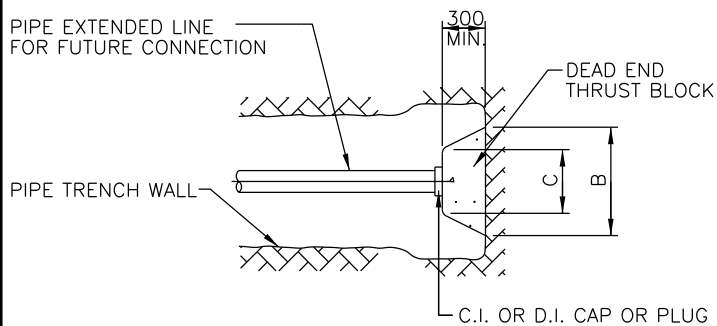
DWG NO.

TITLE

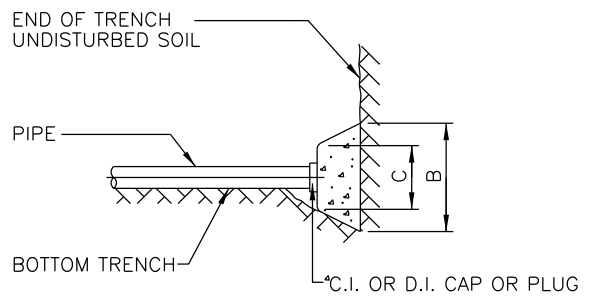
THRUST BLOCK - 1

331100

C - 809

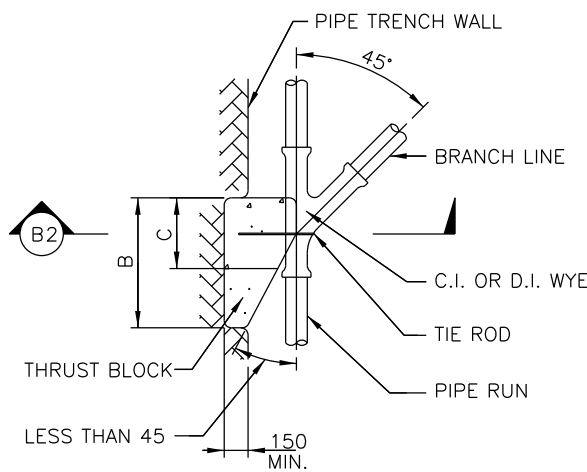


① PLAN

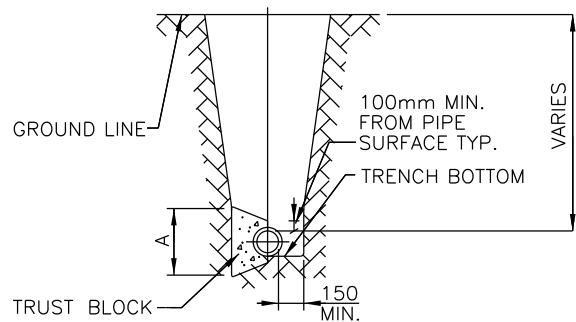


② ELEVATION

Ⓐ DEAD END ⑦



① PLAN

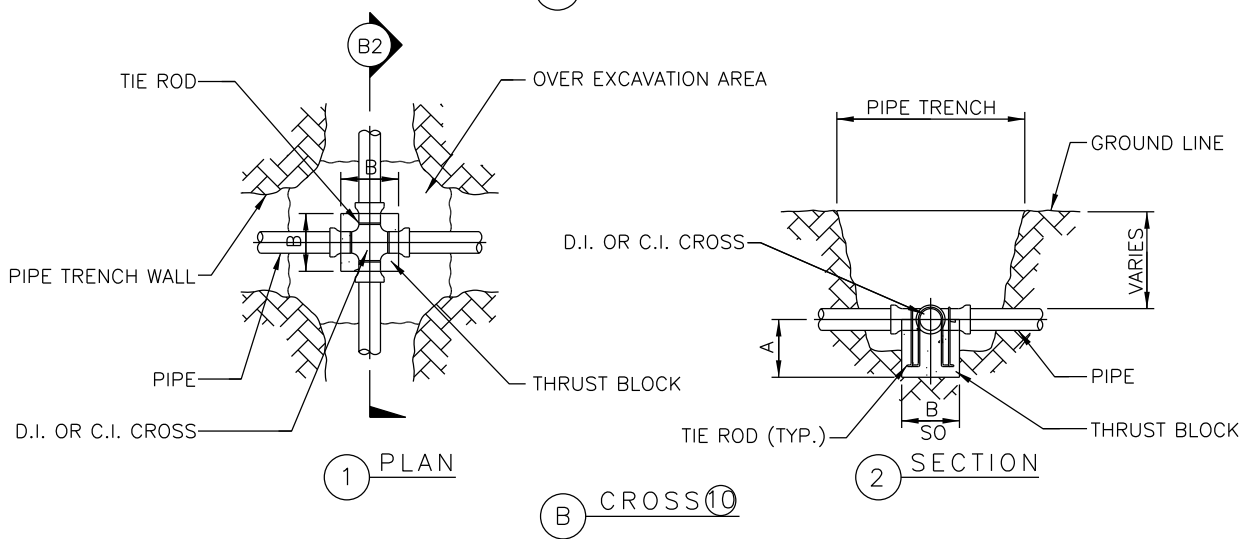
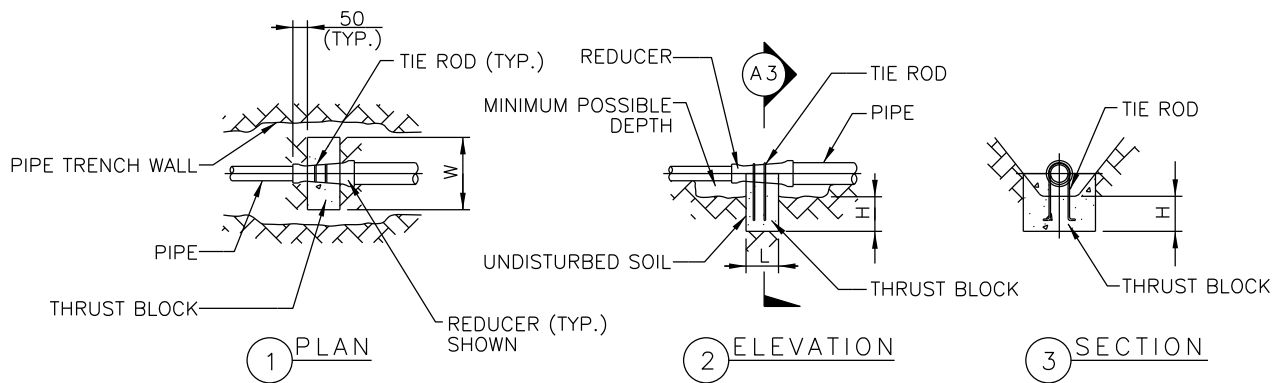


② TYP. SECTION

Ⓑ WYE BRANCH ⑧

THRUST BLOCK
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	THRUST BOLCK - 2	331100	C - 810



PIPE DIAMETER (mm)	DEFLECTION ANGLE OFFSET DISTANCE			
	PVC (OFFSET FOR L = 6,000)		C.I. OR D.I. (OFFSET FOR L = 5,400)	
	BELL END mm	HUB END mm	BELL END mm	MECH JOINT mm
100	425	425	375	625
150	425	425	375	550
200	425	425	375	400
250	425	425	375	400
300	425	425	375	400
350	-	-	225	275
400	-	-	225	275

- NOTE:
1. CAST IRON OR DUCTILE IRON BELL FITTINGS ARE SHOWN ON THIS SHEET. OTHER APPROVED FITTING MAY BE USED.
 2. FORMS ARE NOT REQUIRED FOR INSTALLATION OF THRUST BLOCKS.
 3. ALL EXPOSED FERROUS SURFACES TO BE COATED WITH COAL TAR ENAMEL.
 4. CONCRETE SHALL BE 140 kgf/cm²
 5. THE CONTRACTOR OR CONSTRUCTION DIVISION SHOULD DETERMINE THE ACTUAL ALLOWABLE BEARING CAPACITY OF THE IN SITU SOIL IN DETERMINING THE SIZING OF THE THRUST BLOCKS.

THRUST BLOCK
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	THRUST BOLCK - 3	331100	C - 811

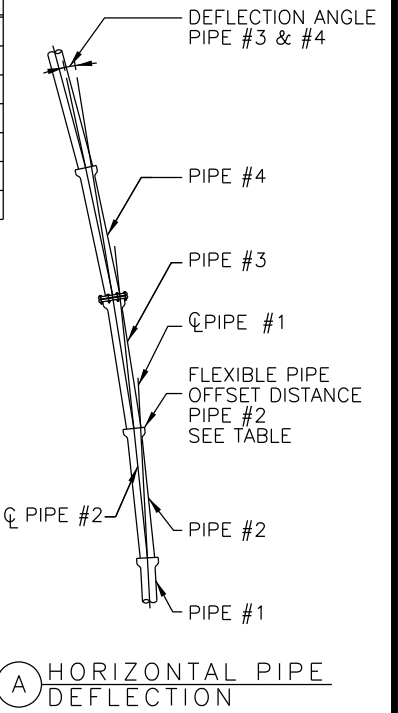
DIMENSION TABLE FOR THRUST BLOCK - (I)																
TYPE	PIPE SIZE	① 1/4(90°) BEND			② 1/8(45°) BEND			③ 1/16(22 1/2°) BEND			④ 1/32(11 1/4°) BEND			⑤ PIPE DEFECTION		
		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
		DEFTH			DEFTH			DEFTH			DEFTH			DEFTH		
TYPE - I SOIL BEARING PRESSURE 7.32 ton/m ²	100	525	525	300	375	375	225	300	300	225	300	300	-	225	225	150
	150	775	775	450	650	650	225	400	400	225	300	300	225	300	300	150
	200	1,025	1,025	525	750	750	300	550	550	300	400	400	225	300	300	150
	250	1,300	1,300	525	950	950	375	675	675	375	475	475	300	325	325	150
	300	1,550	1,550	675	1,150	1,150	450	825	825	375	600	600	375	400	400	150
	350	1,800	1,800	750	1,350	1,350	450	950	950	450	675	675	450	450	450	150
	400	2,075	2,075	900	1,525	1,525	600	1,100	1,100	525	775	775	450	525	525	225
TYPE - II SOIL BEARING PRESSURE 9.76 ton/m ²	100	450	450	300	350	350	225	300	225	225	-	-	-	-	-	-
	150	675	675	375	575	575	225	350	350	225	300	300	225	-	-	-
	200	900	900	525	675	675	300	475	475	300	350	350	225	-	-	-
	250	1,125	1,125	525	825	825	375	600	600	375	425	425	225	300	300	150
	300	1,350	1,350	675	1,000	1,000	450	725	725	450	500	500	300	350	350	150
	350	1,575	1,575	675	1,175	1,175	450	825	825	450	600	600	300	400	400	150
	400	1,800	1,800	750	1,325	1,325	600	950	950	450	675	675	300	450	450	150

TYPE	PIPE SIZE	⑥ TEE BRANCH			⑦ DEAD END			⑧ WYE			TIE ROD
		A	B	C	A	B	C	A	B	C	
		DEFTH			DEFTH			DEFTH			
TYPE - I SOIL BEARING PRESSURE 7.32 ton/m ²	100	450	450	225	450	450	300	450	450	150	ø13
	150	650	650	300	650	650	450	650	650	225	ø19
	200	875	875	450	875	875	450	875	875	300	ø19
	250	1,100	1,100	525	1,100	1,100	650	1,100	1,100	450	ø25
	300	1,300	1,300	600	1,300	1,300	850	1,300	1,300	600	ø25
	350	1,525	1,525	675	1,525	1,525	1,075	- NA -			
	400	1,750	1,750	750	1,750	1,750	1,300	- NA -			
TYPE - II SOIL BEARING PRESSURE 9.76 ton/m ²	100	375	375	225	375	375	300	375	375	150	ø13
	150	575	575	300	575	575	300	575	575	225	ø19
	200	750	750	375	750	750	450	750	750	300	ø19
	250	950	950	450	950	950	500	950	950	450	ø25
	300	1,125	1,125	525	1,125	1,125	750	1,125	1,125	600	ø25
	350	1,325	1,325	600	1,325	1,325	825	- NA -			
	400	1,500	1,500	675	1,500	1,500	1,050	- NA -			

NOTE:
 1. DIMENSION "C" AS SHOWN IN TABLE IS MINIMUM ALLOWABLE DIMENSION AND MAY BE EXCEEDED AS LONG AS NO PART OF THE FITTING JOINT IS COVERED BY CONCRETE.
 2. TEE AND 45° BEND TO BE USED IN LIEU OF "WYE" FOR 350mm AND 400mm BRANCH PIPE SIZE.

DIMENSION TABLE FOR THRUST BLOCK - (II)								
⑨ REDUCER				⑩ CROSS				
REDUCER	W	H	L	TIE ROD	PIPE SIZE	A	B	TIE SIZE
150 x 100	500	500	300	1-ø19	100	-	-	-
200 x 100	750	750	300	1-ø25	150	-	-	-
200 x 150	600	600	300	1-ø19	200	525	825	2-ø13
250 x 150	875	875	300	2-ø25	250	525	825	2-ø13
250 x 200	650	650	300	1-ø25	300	675	975	2-ø19
300 x 150	1,125	1,125	375	2-ø6	350	675	975	2-ø19
300 x 200	975	975	375	2-ø25	400	675	975	2-ø19
300 x 250	725	725	300	2-ø25	NOTE: DIMENSIONS OF THRUST BLOCKS FOR CROSS AND REDUCER TO BE USED FOR ALL TYPES OF SOIL UNLESS OTHERWISE INDICATED ON THE PLANS.			
350 x 200	1,250	1,250	375	2-ø6				
350 x 250	1,050	1,050	375	2-ø25				
350 x 300	650	650	375	1-ø31				
400 x 250	1,350	1,350	375	2-ø38				
400 x 300	1,175	1,175	375	2-ø31				
400 x 350	850	850	375	1-ø31				

THRUST BLOCK
NOT TO SCALE



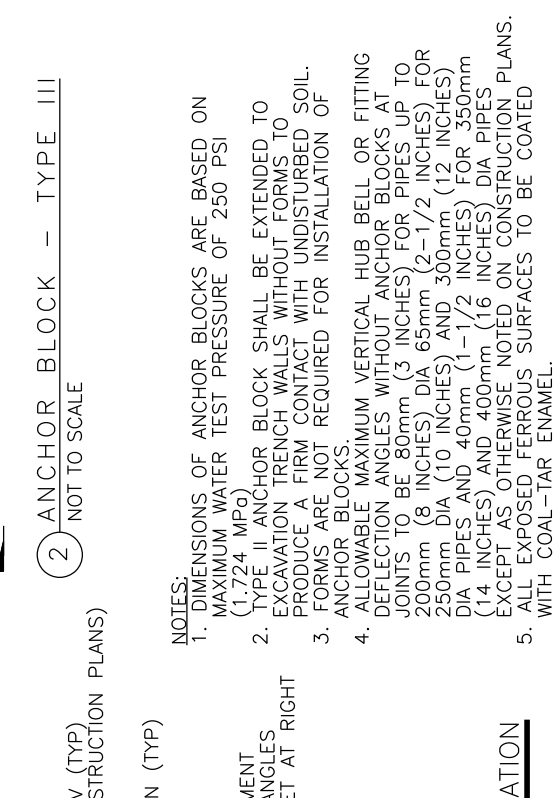
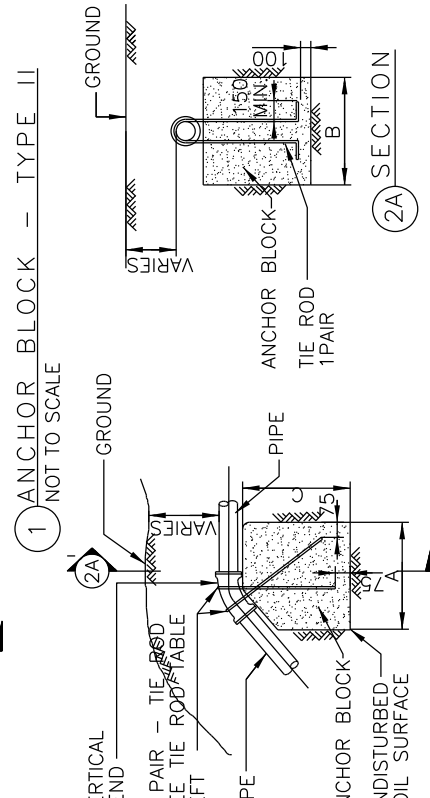
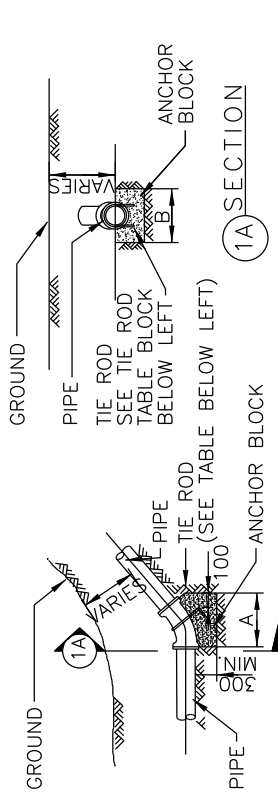
	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	THRUST BOLCK - 4, DIMENSION TABLE	331100	C - 812

TYPE I		TYPE II		TYPE III		TYPE III	
PIPE DEFLECTION	PIPE SIZE	1/4 BEND	1/6 BEND	1/6 BEND	1/6 BEND	1/6 BEND	1/6 BEND
A	100	175	125	175	125	175	125
B	130	225	175	225	175	225	175
A	150	275	225	275	225	275	225
B	200	325	275	325	275	325	275
A	250	375	325	375	325	375	325
B	300	425	375	425	375	425	375
A	350	475	425	475	425	475	425
B	400	525	475	525	475	525	475
A	450	575	525	575	525	575	525
B	500	625	575	625	575	625	575

TYPE II		TYPE III	
PIPE BLOCK	PIPE SIZE	1/4 BEND	1/6 BEND
A	100	175	125
B	130	225	175
A	150	275	225
B	200	325	275
A	250	375	325
B	300	425	375
A	350	475	425
B	400	525	475
A	450	575	525
B	500	625	575

1. ASSUMED 17.58 KG/CM2 (250 PSI) INTERNAL PIPE PRESSURE.

2. ALL EXPOSED STEEL SHALL BE COAL-TAR ENAMEL COATED.



DIMENSION TABLE FOR ANCHOR BLOCKS

TYPE I PIPE DEFLECTION

TYPE II PIPE DEFLECTION

TYPE III PIPE DEFLECTION

TYPE III PIPE DEFLECTION

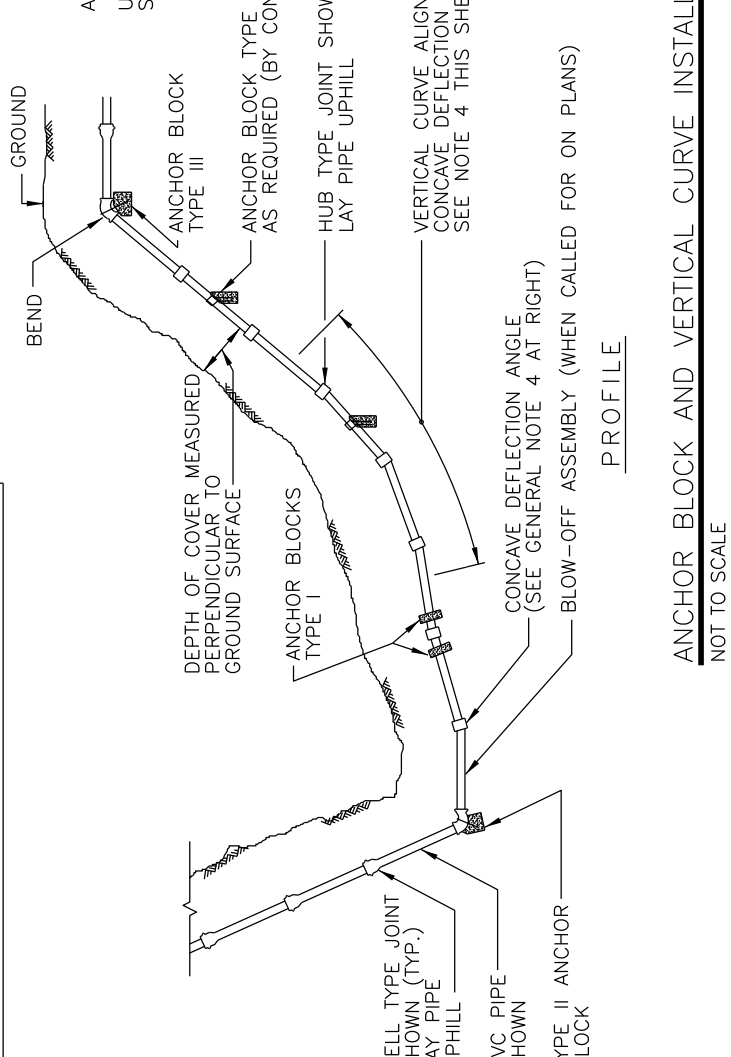
NOTES : 1. THRUST BLOCK NOTES TO BE APPLIED FOR TYPE II ANCHOR BLOCK SEE ABOVE RIGHT.

2. A DASH (-) INDICATES NO ANCHOR BLOCK IS REQUIRED

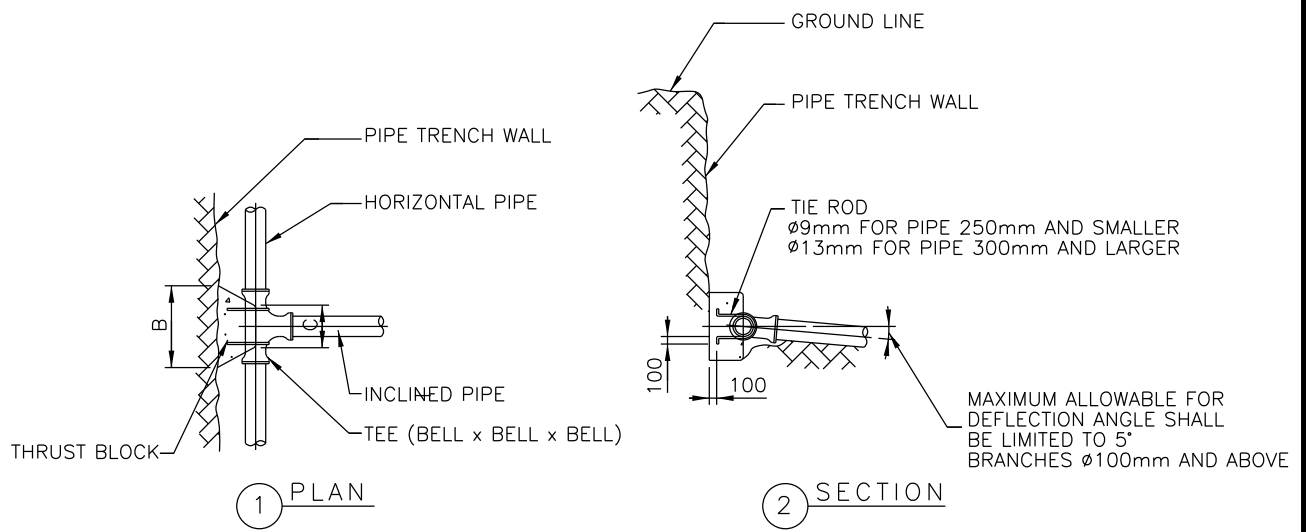
3. ANCHOR BLOCK SIZE ASSUMES 250 PSI (17.58 KG/CM2) INTERNAL PIPE PRESSURE 1500 PSF (7.32 TON/M²) SOIL BEARING PRESSURE FOR TYPE II

1 ANCHOR BLOCK - TYPE II NOT TO SCALE

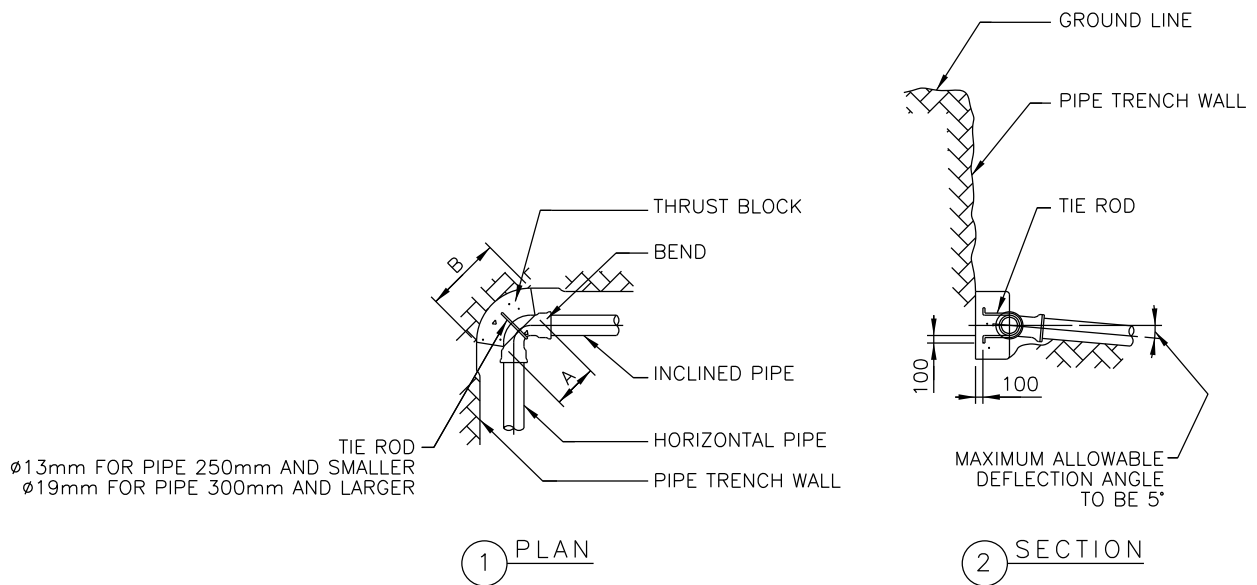
2 ANCHOR BLOCK - TYPE III NOT TO SCALE



- NOTES:
- DIMENSIONS OF ANCHOR BLOCKS ARE BASED ON MAXIMUM WATER TEST PRESSURE OF 250 PSI (1.724 MPA)
 - TYPE II ANCHOR BLOCK SHALL BE EXTENDED TO EXCAVATION TRENCH WALLS WITHOUT FORMS TO PRODUCE A FIRM CONTACT WITH UNDISTURBED SOIL.
 - FORMS ARE NOT REQUIRED FOR INSTALLATION OF ANCHOR BLOCKS.
 - ALLOWABLE MAXIMUM VERTICAL HUB BELL OR FITTING DEFLECTION ANGLES WITHOUT ANCHOR BLOCKS AT JOINTS TO BE 80mm (3 INCHES) FOR PIPES UP TO 200mm (8 INCHES) DIA 65mm (2-1/2 INCHES) FOR 250mm DIA (10 INCHES) AND 300mm (12 INCHES) DIA PIPES AND 40mm (1-1/2 INCHES) FOR 350mm (14 INCHES) AND 400mm (16 INCHES) DIA PIPES EXCEPT AS OTHERWISE NOTED ON CONSTRUCTION PLANS.
 - ALL EXPOSED FERROUS SURFACES TO BE COATED WITH COAL-TAR ENAMEL.



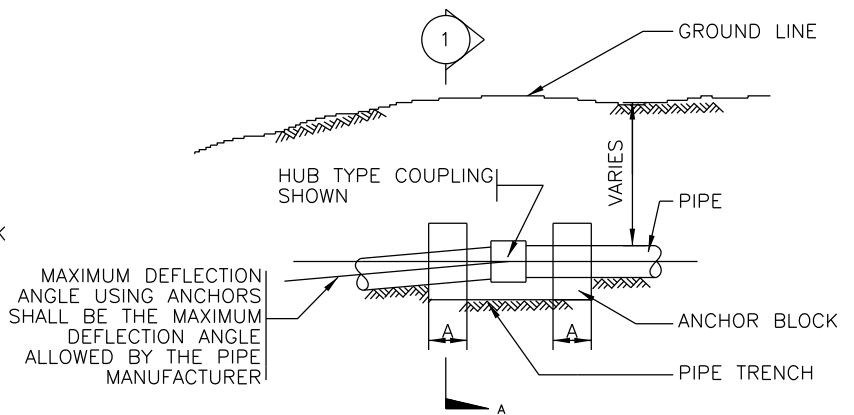
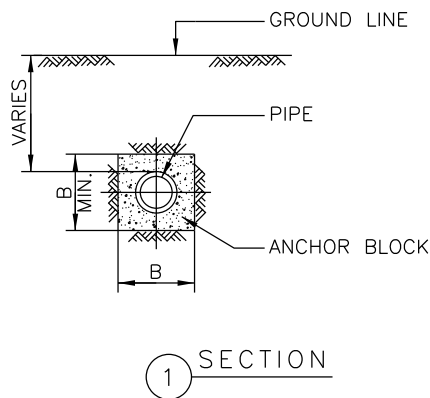
(A) TEE



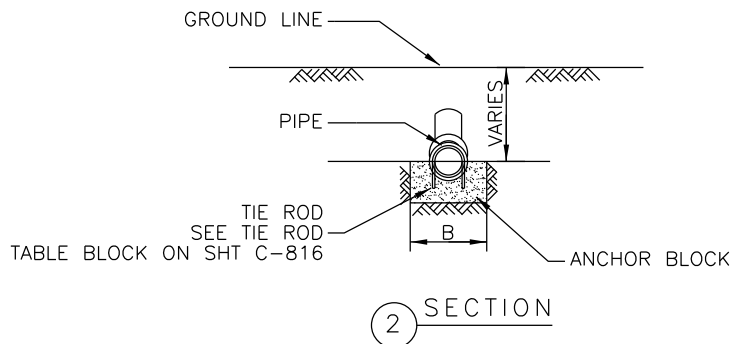
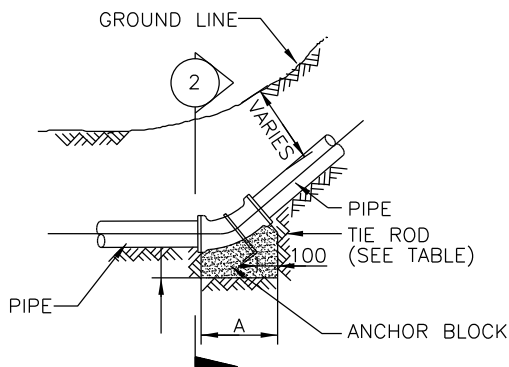
(B) 90° BEND

THRUST BLOCK WITH UPWARD THRUST
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	THRUST BLOCK WITH UPWALD THRUST	331100	C - 814



ANCHOR BLOCK – TYPE I
NOT TO SCALE




ANCHOR BLOCK – TYPE II
NOT TO SCALE

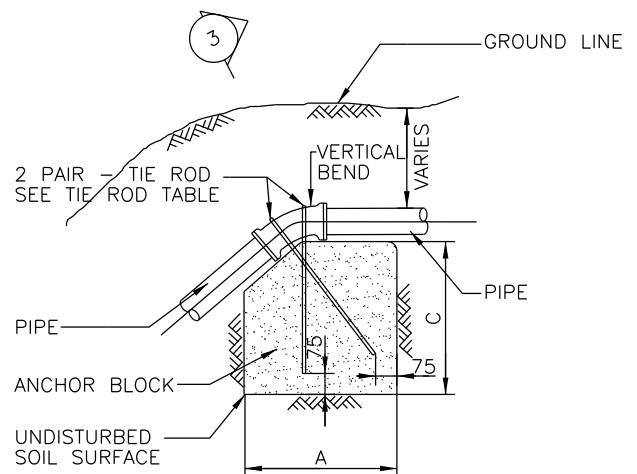
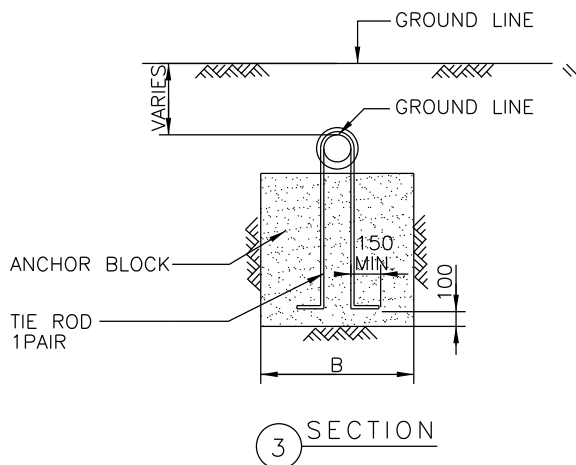
NOTES:

- DIMENSIONS OF ANCHOR BLOCKS ARE BASED ON MAXIMUM WATER TEST PRESSURE OF 250 PSI (1,724 MPa)
- TYPE II ANCHOR BLOCK SHALL BE EXTENDED TO EXCAVATION TRENCH WALLS WITHOUT FORMS TO PRODUCE A FIRM CONTACT WITH UNDISTURBED SOIL.
- FORMS ARE NOT REQUIRED FOR INSTALLATION OF ANCHOR BLOCKS.
- ALLOWABLE MAXIMUM VERTICAL HUB BELL OR FITTING DEFLECTION ANGLES WITHOUT ANCHOR BLOCKS AT JOINTS TO BE 3° FOR PIPE UP TO 200mm DIA, 2-1/2° FOR 250mm AND 300mm DIA PIPES, AND 1-1/2° FOR 350mm AND 400mm PIPE EXCEPT AS OTHERWISE NOTED ON CONSTRUCTION PLANS.
- ALL EXPOSED FERROUS SURFACES TO BE COATED WITH COAL-TAR ENAMEL.

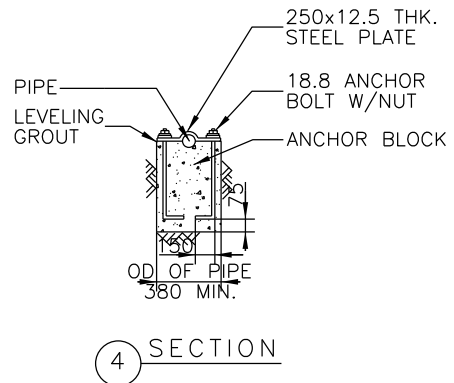
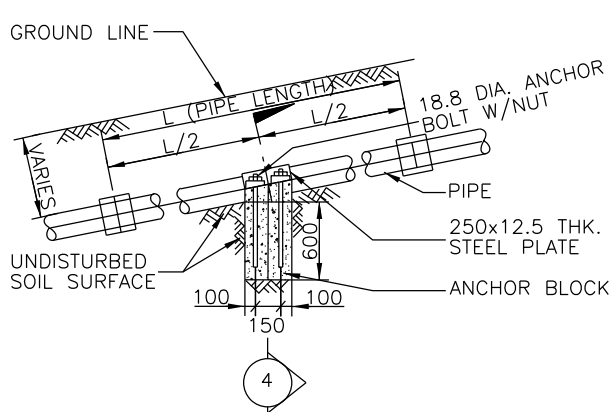
		TIE ROD TABLE			
PIPE SIZE	TYPE II BLOCK	TYPE III BLOCK			
		90° 1/4 BEND	45° 1/8 BEND	22 1/2° 1/16 BEND	11 1/4° 1/32 BEND
		SIZE x PAIR	SIZE x PAIR	SIZE x PAIR	SIZE x PAIR
100	12.5	12.5 x 2	12.5 x 2	-	-
150	12.5	12.5 x 2	12.5 x 2	12.5 x 2	-
200	12.5	18.8 x 2	12.5 x 2	12.5 x 2	12.5 x 2
250	18.8	18.8 x 2	12.5 x 2	12.5 x 2	12.5 x 2
300	18.8	25 DIA x 2	18.8 x 2	12.5 x 2	12.5 x 2

1. ASSUMED 1724 KG/M2 (250 PSI) INTERNAL PIPE PRESSURE.
2. ALL EXPOSED STEEL SHALL BE COAL-TAR ENAMEL COATED.

	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	ANCHOR BLOCK TYPE - (I), (II)	331100	C - 815



ANCHOR BLOCK - TYPE III
NOT TO SCALE



ANCHOR BLOCK - TYPE IV
NOT TO SCALE

DIMENSION TABLE FOR ANCHOR BLOCKS																						
PIPE SIZE	TYPE I		TYPE II								TYPE III											
	PIPE DEFLECTION		1/4(90°) BEND		1/8(45°) BEND		1/16 (22 1/2°) BEND		1/32 (11 1/4°) BEND		1/4(90°) BEND			1/8(45°) BEND			1/16 (22 1/2°) BEND			1/32 (11 1/4°) BEND		
	A	B	A	B	A	B	A	B	A	B	A	B	C	A	B	C	A	B	C	A	B	C
100	-	-	525	525	400	400	300	300	-	-	825	825	825	750	750	750	600	600	600	500	500	500
150	-	-	800	800	650	650	400	400	300	300	1,100	1,100	1,100	975	975	975	775	775	775	650	650	650
200	450	450	1,050	1,050	775	775	550	550	400	400	1,325	1,325	1,325	925	925	925	975	975	975	750	750	750
250	450	600	1,300	1,300	1,050	1,050	675	675	500	500	1,525	1,525	1,525	1,350	1,350	1,350	1,125	1,125	1,125	900	900	900
300	600	600	1,550	1,550	925	925	825	825	525	525	1,725	1,725	1,725	1,550	1,550	1,550	1,275	1,275	1,275	1,000	1,000	1,000

NOTES : 1. THRUST BLOCK NOTES TO BE APPLIED FOR TYPE II ANCHOR BLOCK
SEE DRAWING NO SHEET C-816
2. A DASH (-) INDICATES NO ANCHOR BLOCK IS REQUIRED
3. PIPE DEFLECTION - SEE NOTE 4
4. ANCHOR BLOCK SIZE ASSUMES 250 PSI (17.58 kgf/cm²) INTERNAL PIPE PRESSURE
1,500 PSF (7.321 ton/m²) SOIL BEARING PRESSURE FOR TYPE II



O&MA STANDARD DETAILS, KOREA

OMA SPEC

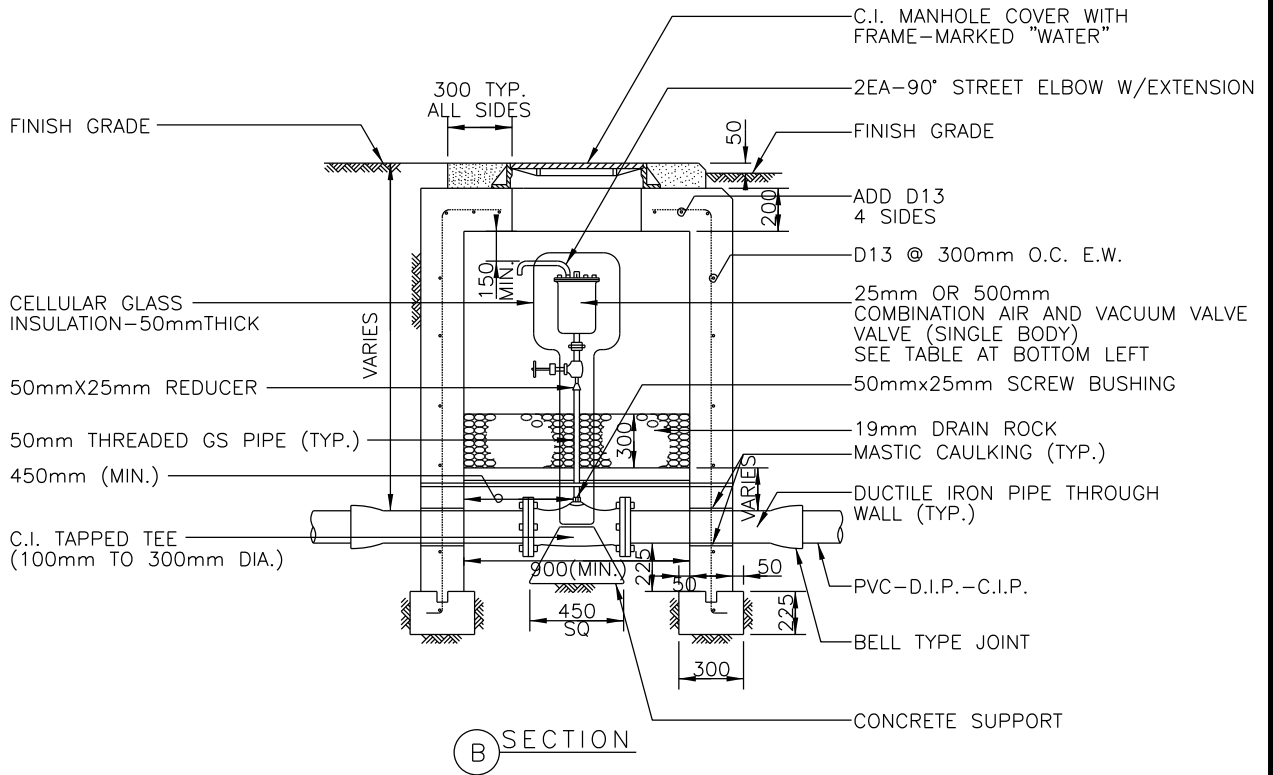
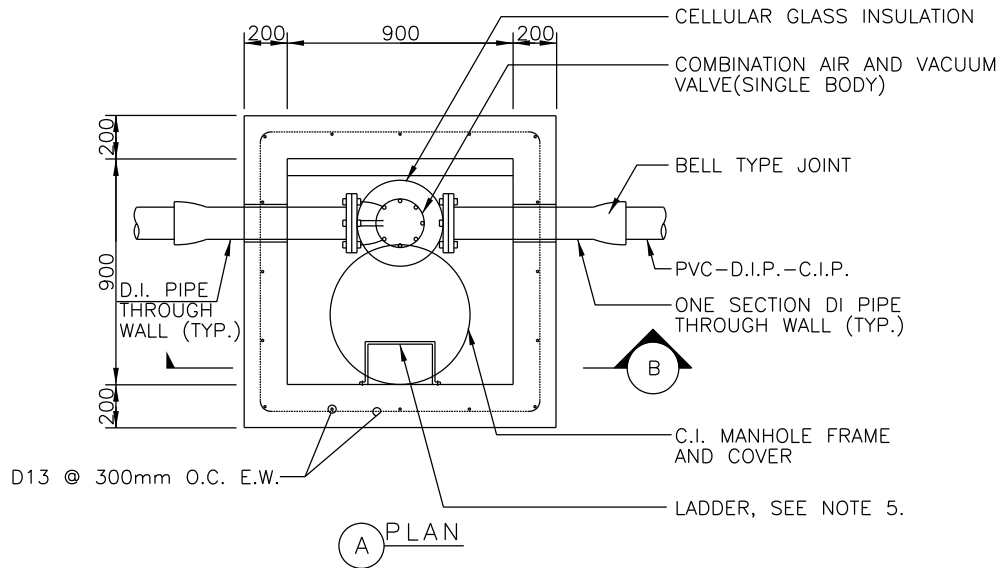
DWG NO.

TITLE

ANCHOR BLOCK TYPE - (III), (IV)

331100

C - 816



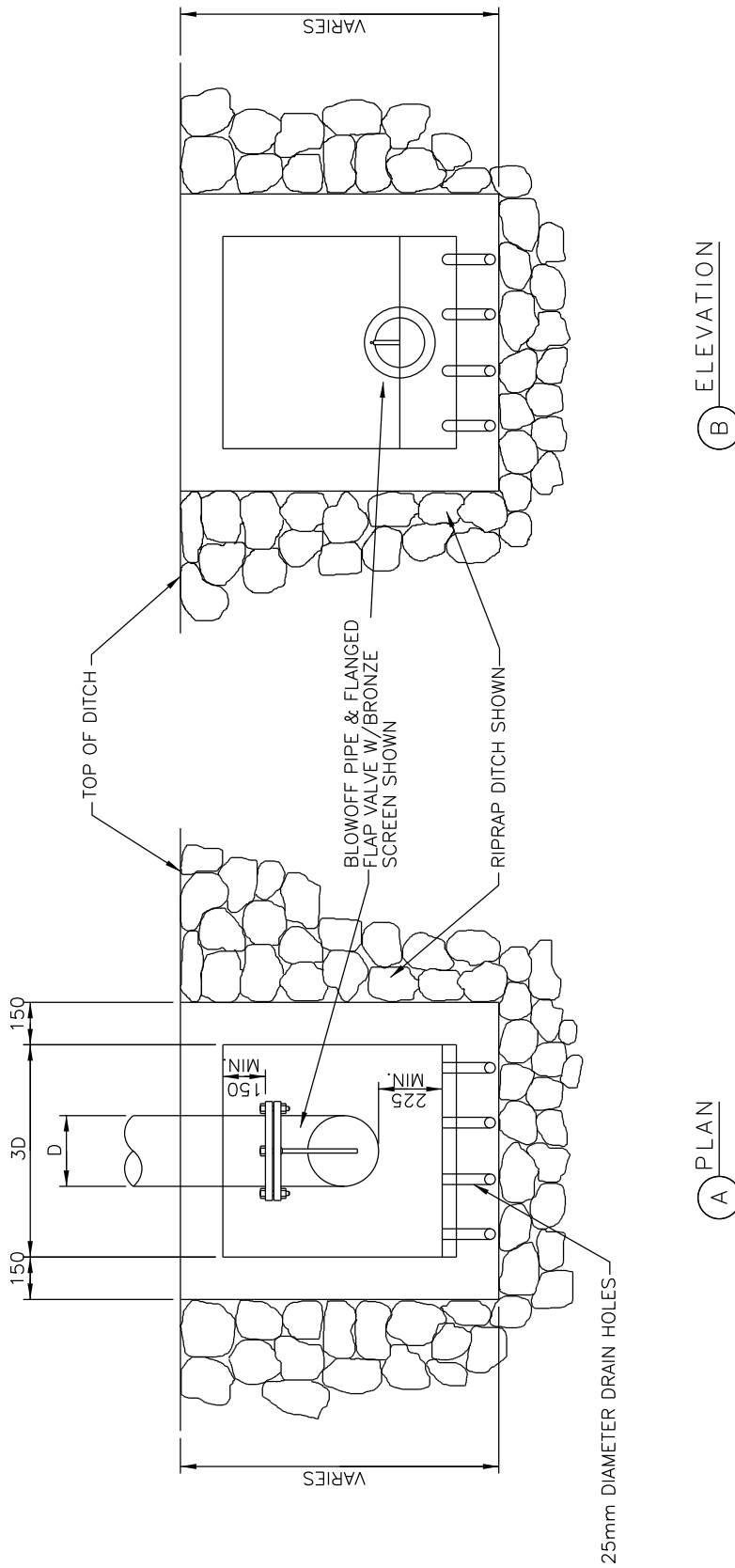
NOTES:

1. SLOPE OF THE STEEPEST PIPE ADJACENT TO THE COMBINATION AIR VALVE.
2. FOR PIPE LINES LARGER THAN 300mm, SEE PLANS.
3. COMBINATION AIR-VACUUM VALVE OF THE SIZE INDICATED BY THE TABLE SHALL BE USED IN THIS INSTALLATION UNLESS OTHERWISE SPECIFIED ON THE CONSTRUCTION PLANS.
4. VALVES WITHIN WATER DISTRIBUTION SYSTEM SHALL BE 25mm.
5. AIR-VACUUM VALVE MANHOLES 1200mm IN DEPTH OR GREATER SHALL HAVE A LADDER, SEE LADDER DETAIL.

VALVE SIZE IN WATER TRANSMISSION LINES (SEE NOTE 4)			
SEE NOTE 1 PIPE SLOPE,%	PIPE SIZE (mm)	CI,DI,PVC,STL	
		100-200	250 300
0.25	25	25	25
0.50	25	25	25
1	25	25	25
2	25	25	25
4	25	25	50
7	25	25	50
10	25	50	50

COMBINATION AIR-VACUUM VALVE INSTALLATION
NOT TO SCALE

	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	COMBINATION AIR - VACUUM VALVE	331100	C - 817



(B) ELEVATION

(A) PLAN

NOTE:
 PROVIDE D13 REINFORCEMENT AT 300mm O.C. BOTHWAYS
 WITH 300mm MINIMUM OVERLAP AT CORNERS.

CONCRETE ENERGY DISSIPATION STRUCTURE

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

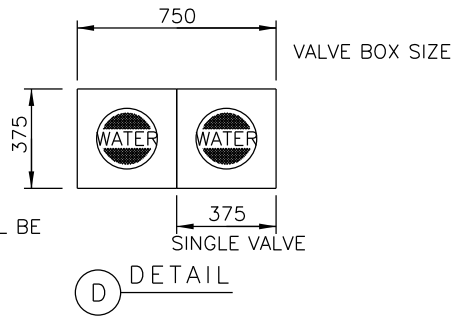
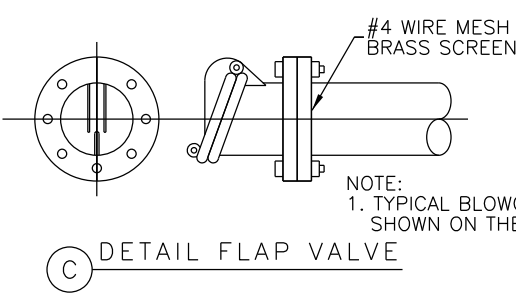
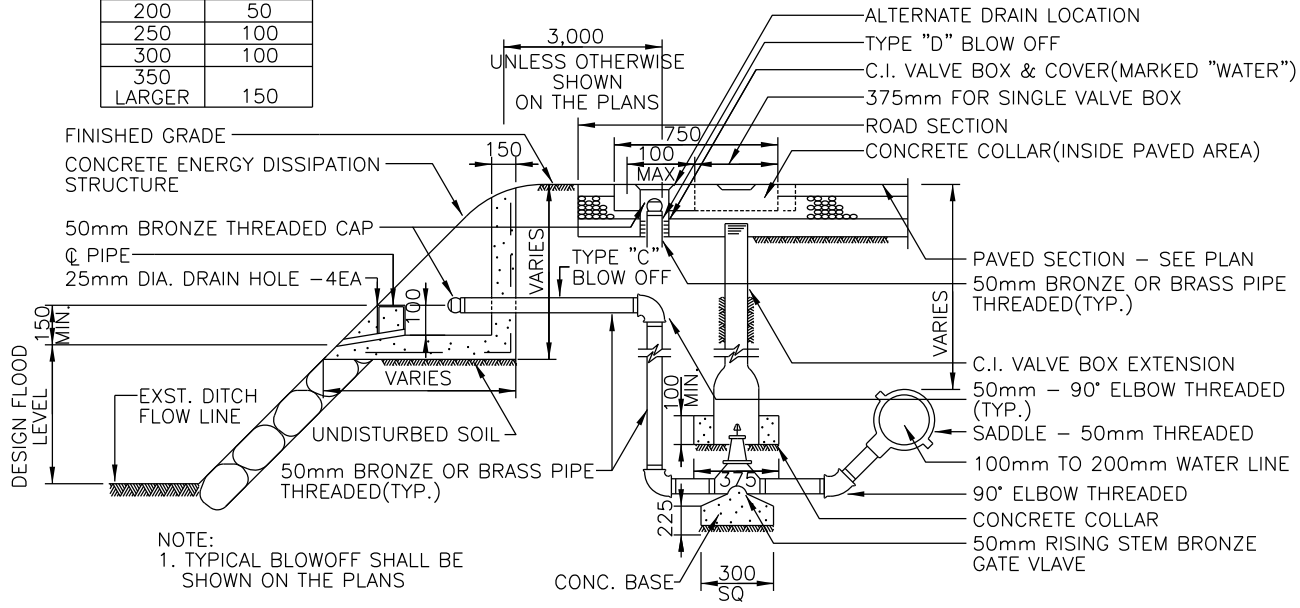
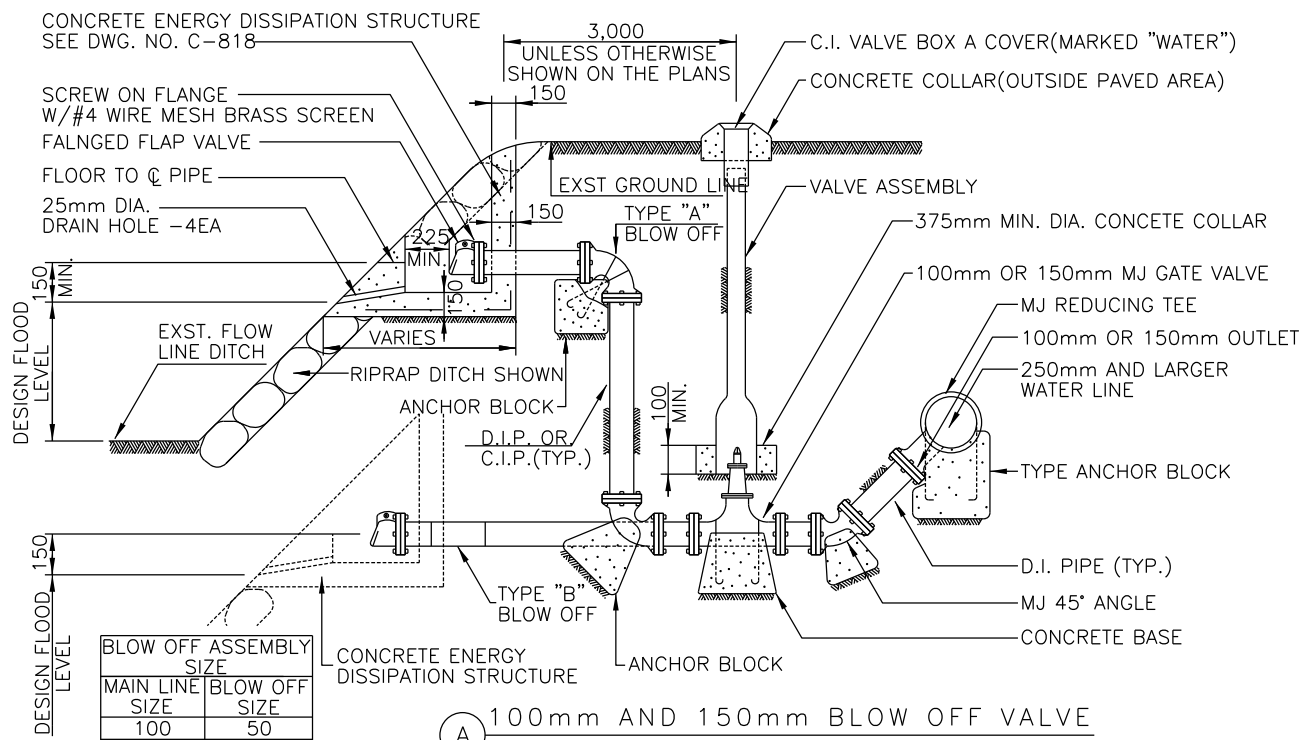
CONCRETE DISSIPATION STRUCTURE

OMA SPEC

331100

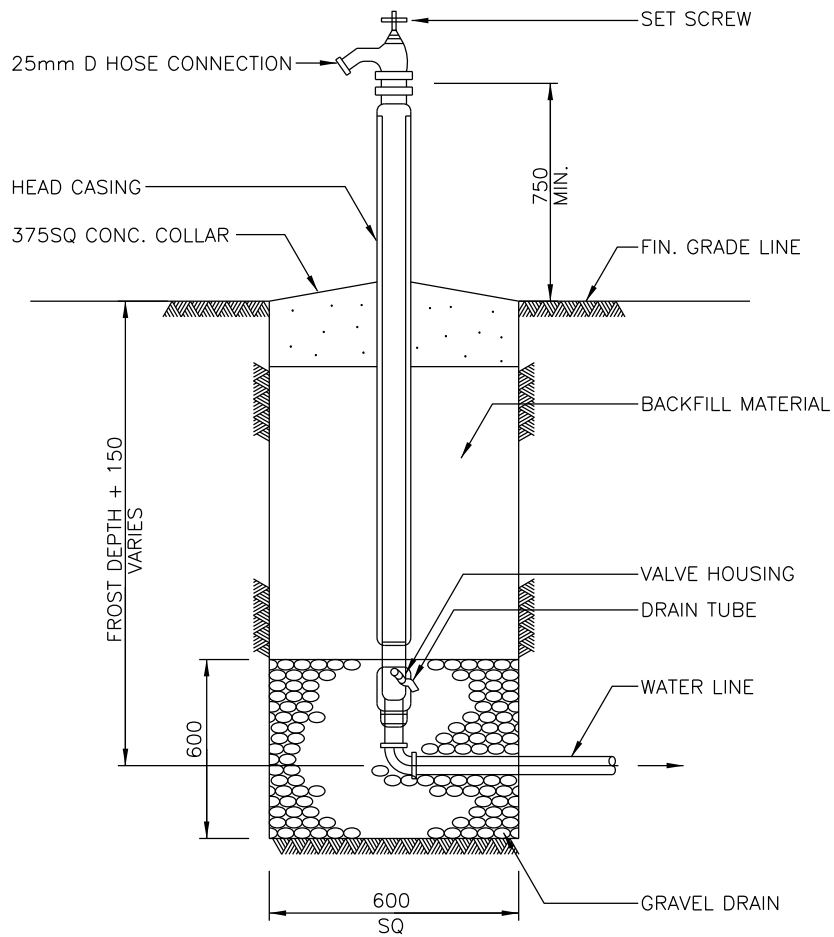
DWG NO.

C - 818



BLOW OFF VALVE INSTALLATION
NOT TO SCALE

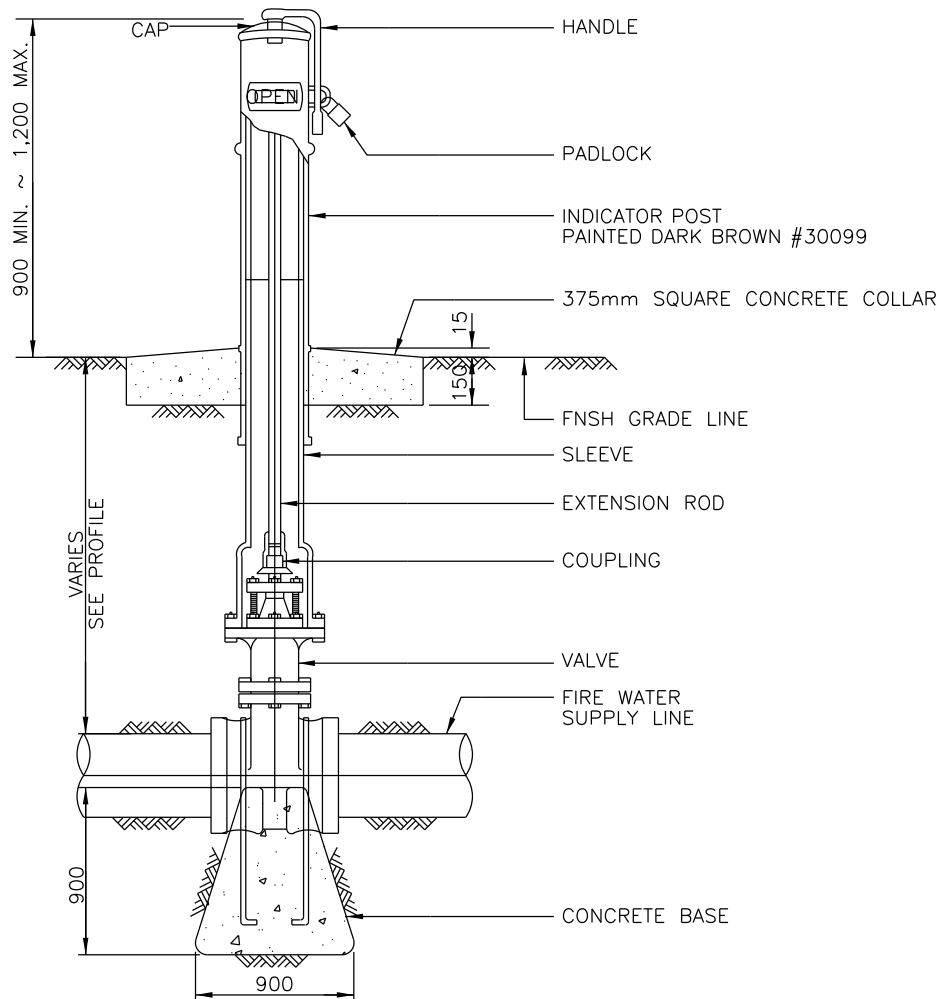
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	BLOW - OFF VALVE INSTALLATION	331100	C - 819



25mm FREEZE PROOF HOSE BIBB
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	25mm FREEZE PROOF HOSE BIBB	331100	C - 820

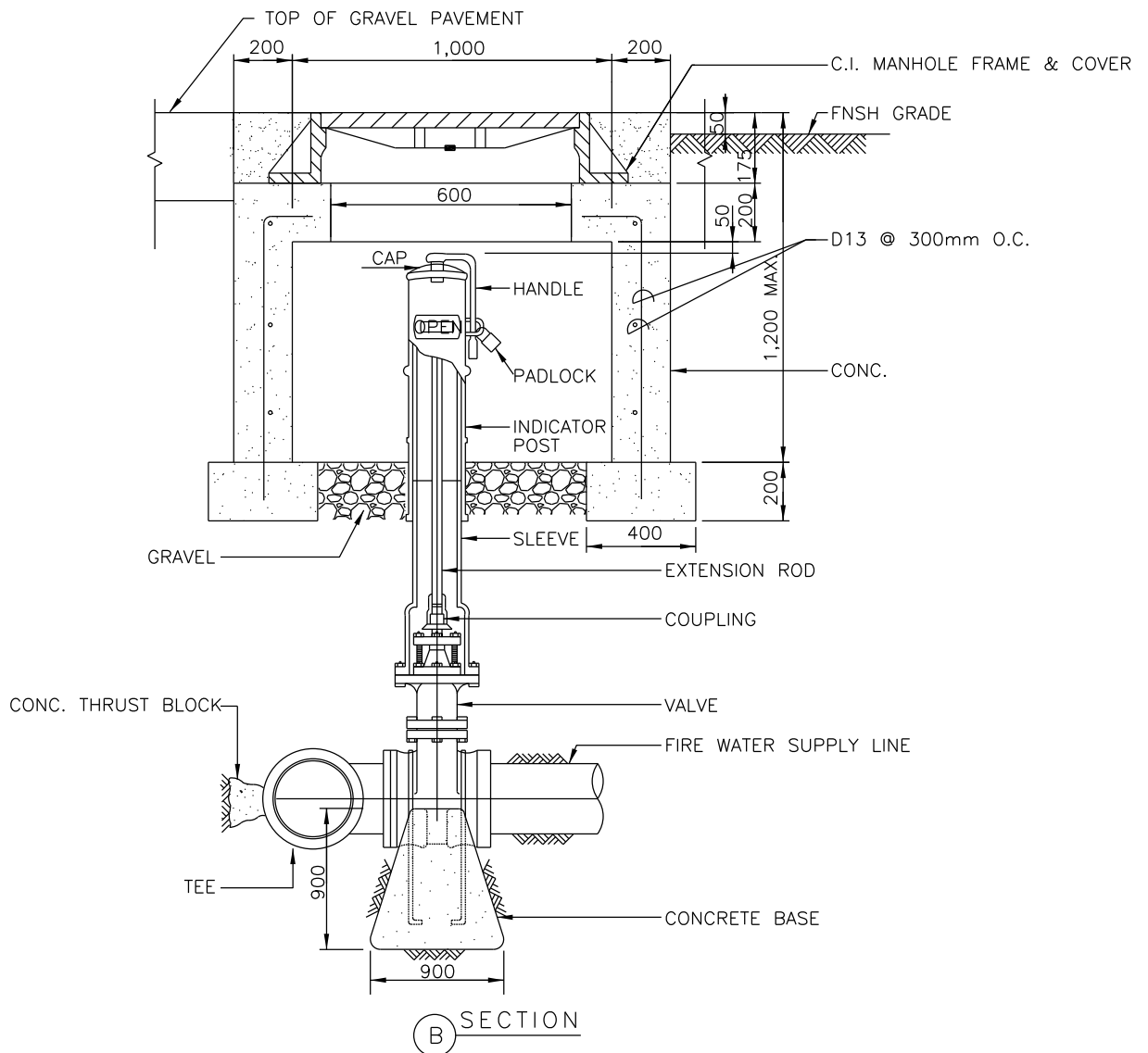
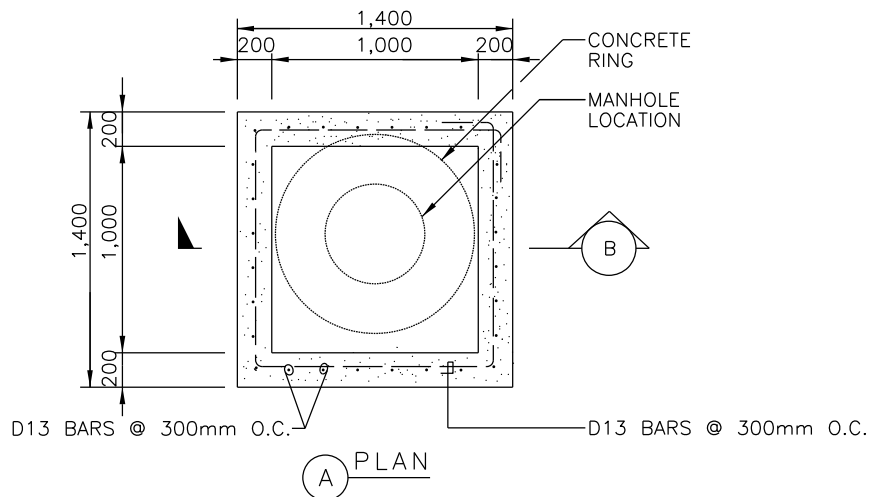
REV DATE: NOV 2015



POST INDICATOR VALVE
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	POST INDICATOR VALVE	331100	C - 821

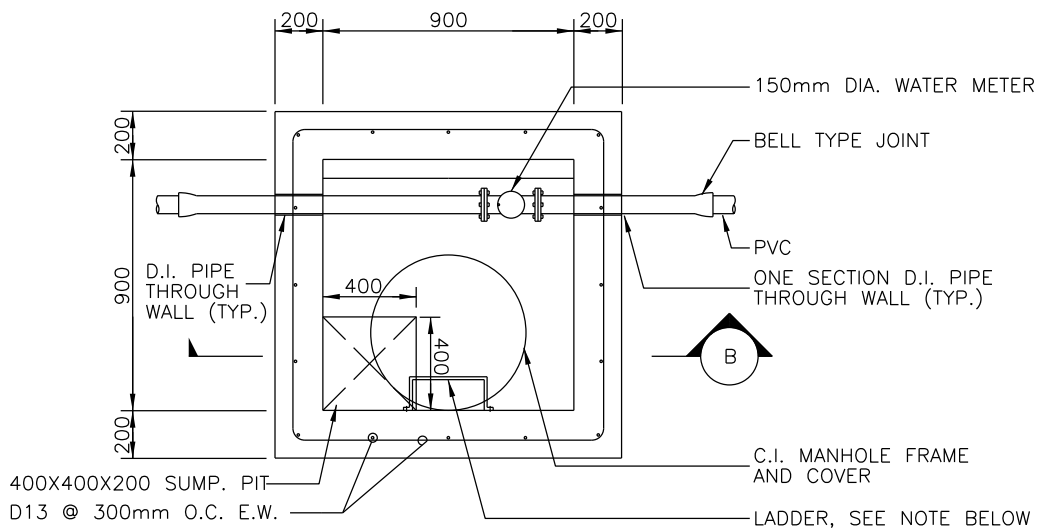
REV DATE: NOV 2015



POST INDICATOR VALVE W/BOX (U/G TYPE)
NOT TO SCALE

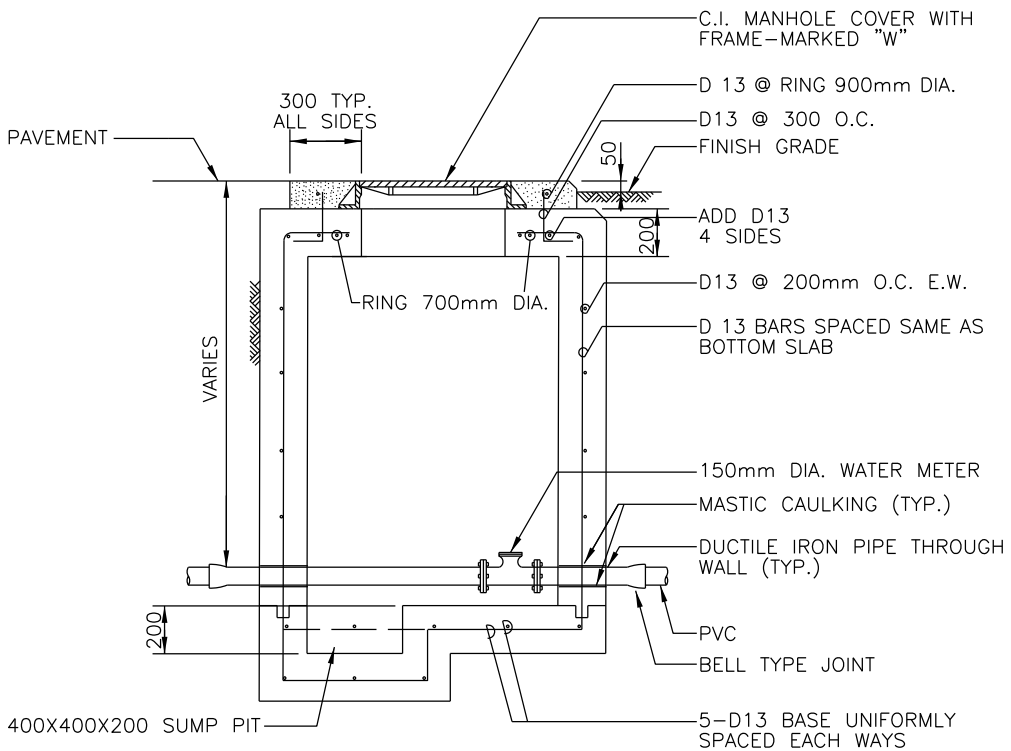
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	POST INDICATOR VALVE W/BOX (U/G TYPE)	331100	C - 822

REV DATE: NOV 2015



(A) PLAN

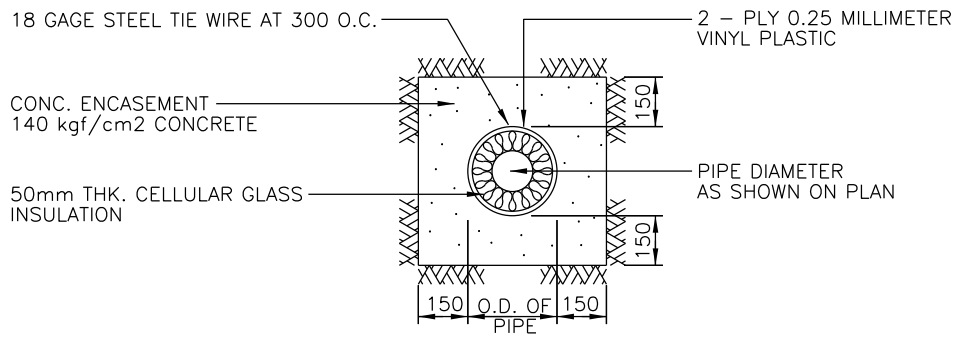
NOTE:
1. MANHOLES 1,200mm IN DEPTH OR GREATER SHALL HAVE A LADDER



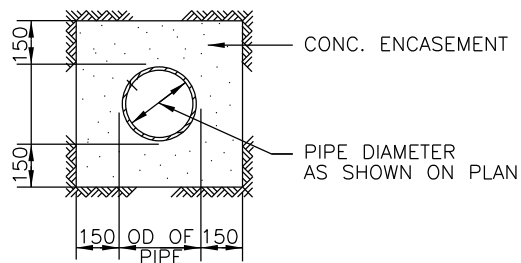
(B) SECTION

WATER METER W/MANHOLE
NOT TO SCALE

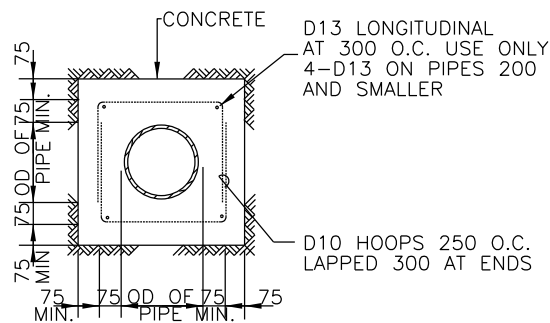
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	WATER METER W/MANHOLE	331100	C - 823



CONCRETE ENCASEMENT WITH INSULATION
NOT TO SCALE



CONCRETE ENCASEMENT
NOT TO SCALE



REINFORCED CONCRETE ENCASEMENT
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

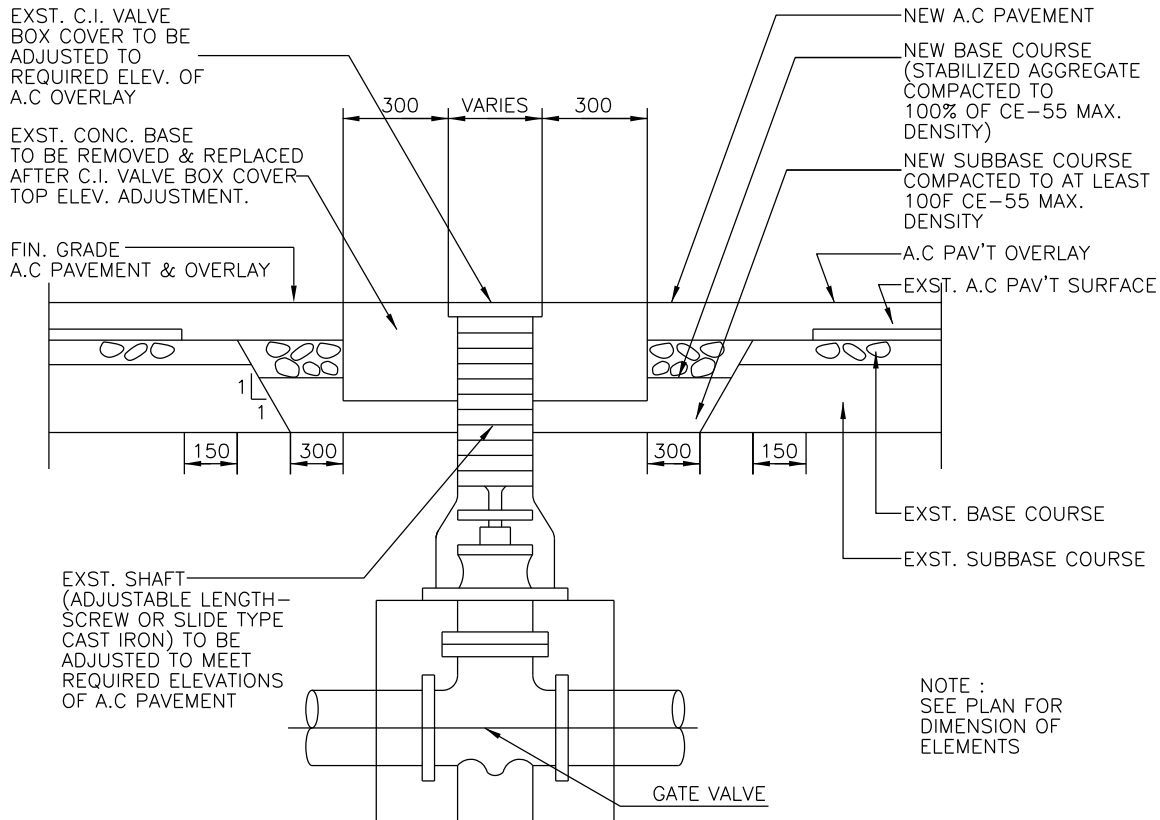
DWG NO.

TITLE

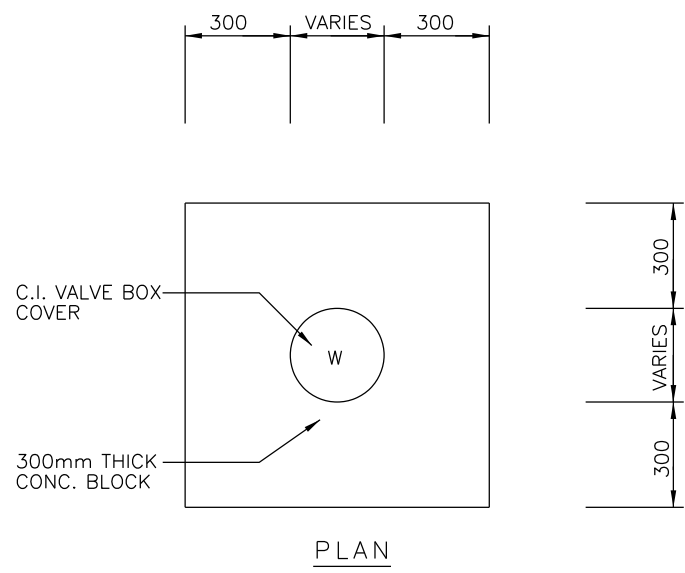
CONCRETE ENCASEMENT OF WATER LINE

331100

C - 824

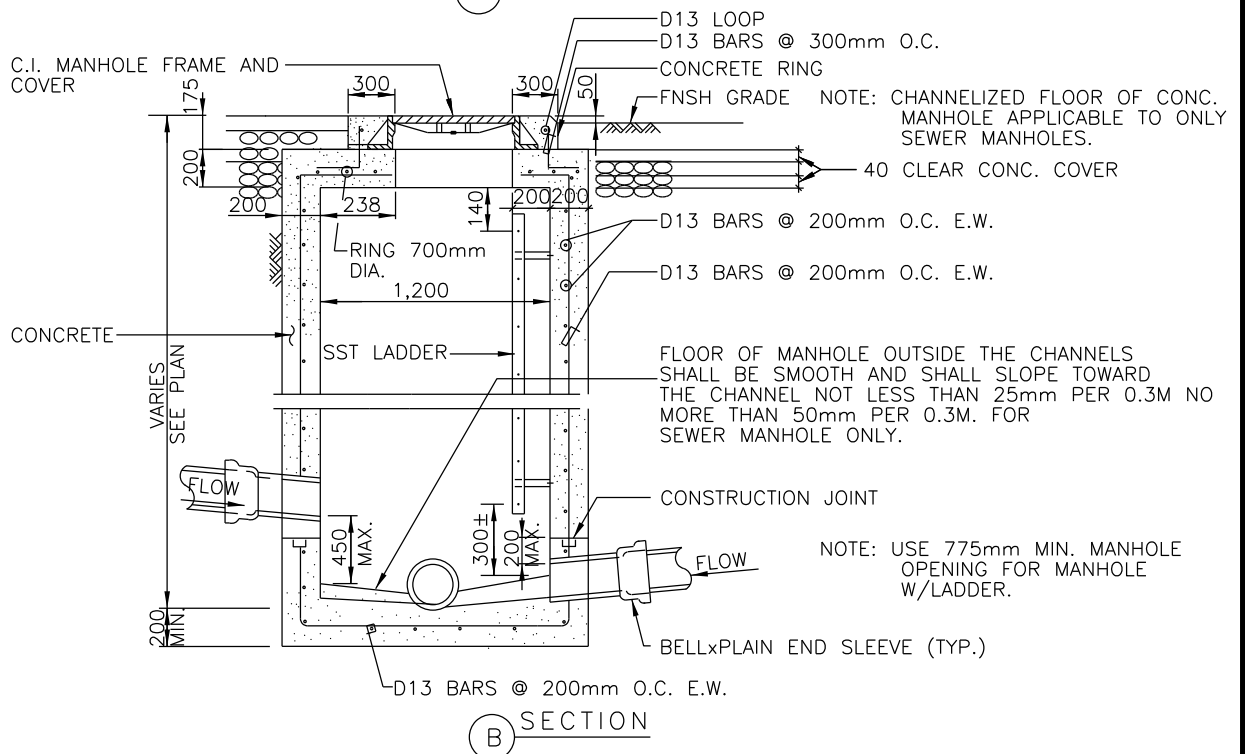
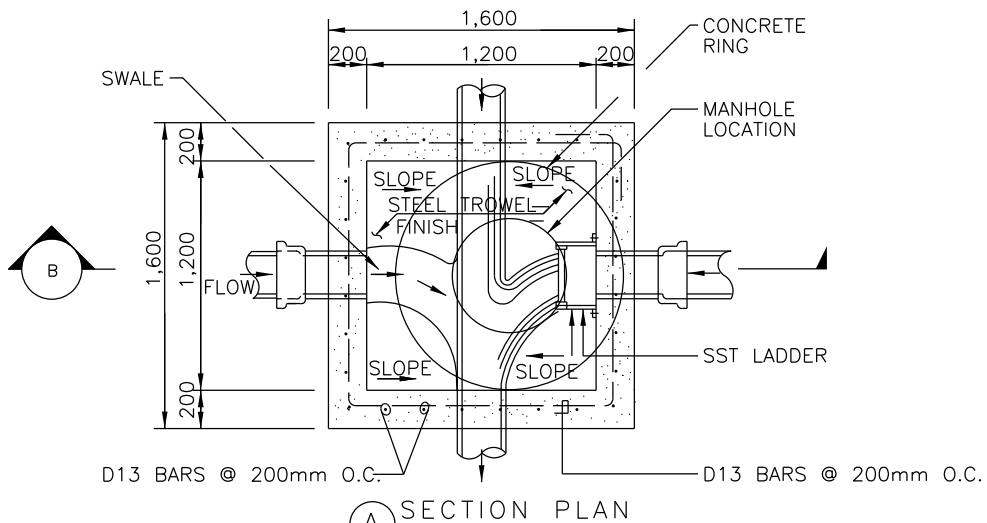
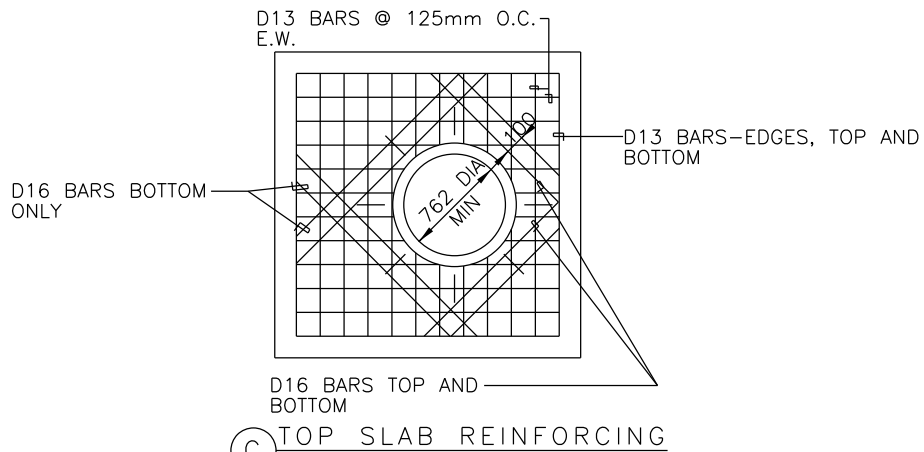


REMOVAL & RAISING C.I. VALVE BOX COVER
(SEE WORK REQUIRED ABOVE)



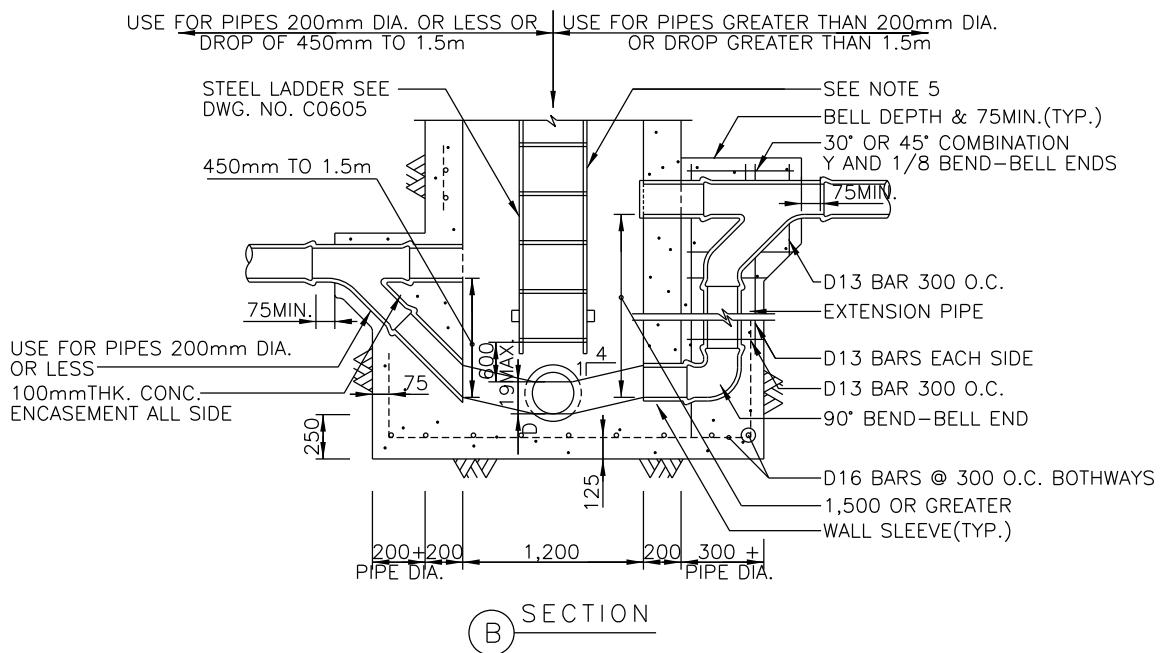
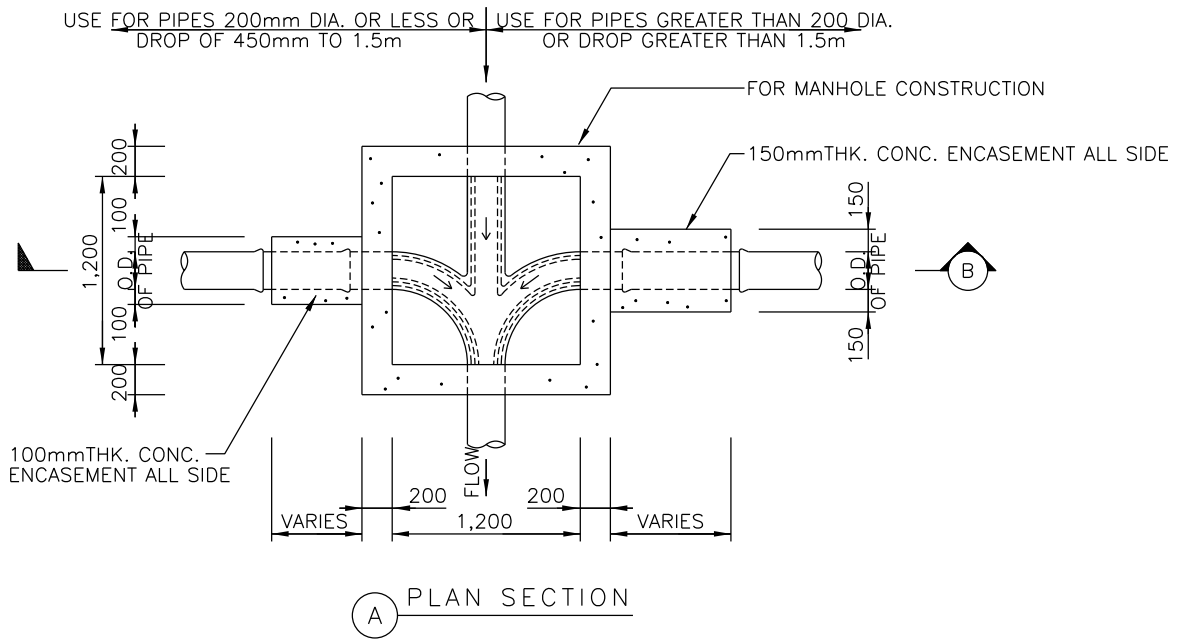
RAISING TOP OF GATE VALVE BOX
NOT TO SCALE

	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	RAISING GATE VALVE BOX	331100	C - 825



CONCRETE (SEWER) MANHOLE
NOT TO SCALE

	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CONCRETE (SEWER) MANHOLE	333000	C - 901



DROP (SEWER) MANHOLE
NOT TO SCALE

1. WHEREVER MANHOLES ARE SUBJECT TO TRAFFIC LOADS, RIBBED CAST IRON OR 100mm REINFORCED CONCRETE COVERS AS SHOWN SHALL BE USED UNLESS OTHERWISE INDICATED.
2. WHERE A NON-TRAFFIC TYPE MANHOLE IS SHOWN ON THE PLANS, CAST IRON WITHOUT THE SUPPORTING RIBS MAY BE USED.
3. COVER FRAMES SHALL BE SECURELY INSTALLED IN A BED OF CEMENT MORTAR.
4. INSTALL SHALLOW MANHOLE TOP SLAB AND COVER WHEN DEPTH FROM TOP OF CONCRETE SLAB TO INVERT OF MANHOLE IS 1.5m OR LESS.
5. INSTALL GALVANIZED STEEL LADDER ONLY WHEN DEPTH FROM TOP OF COVER TO INVERT OF MAIN SEWER EXCEEDS 1.2m, WALL ON WHICH LADDER IS INSTALLED SHALL BE VERTICAL FROM TOP SLAB TO INVERT.



O&MA STANDARD DETAILS, KOREA

OMA SPEC

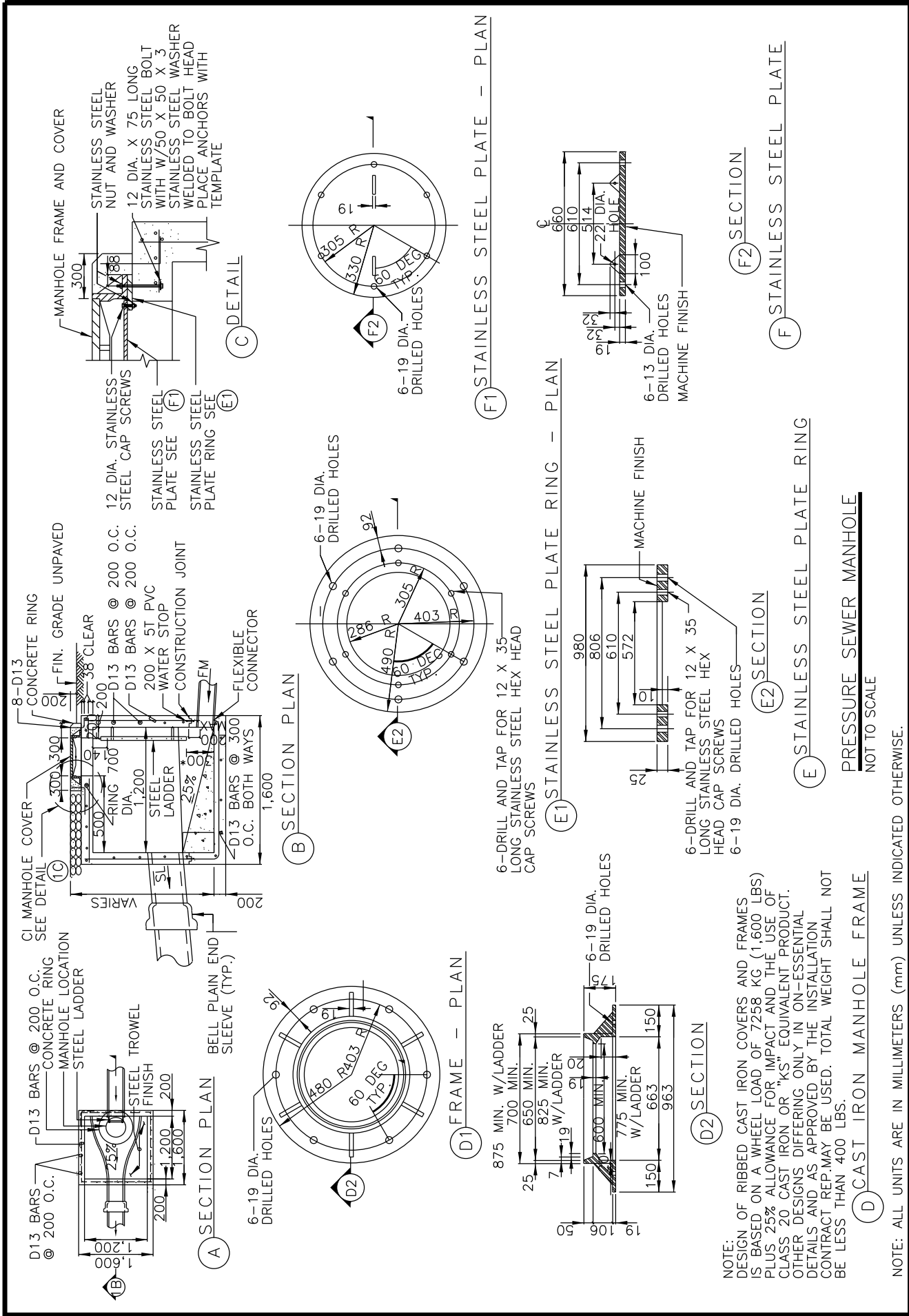
DWG NO.

TITLE

DROP (SEWER) MANHOLE

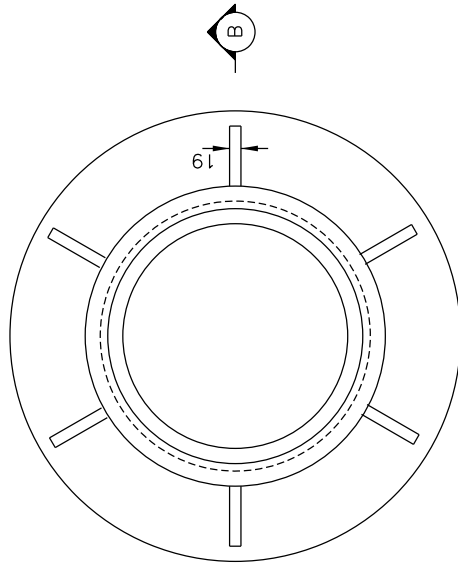
333000

C - 902

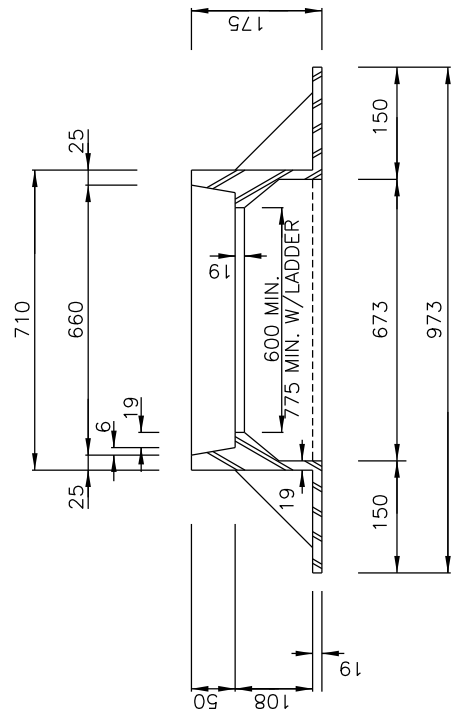


 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PRESSURE SEWER MANHOLE	333000	C - 903

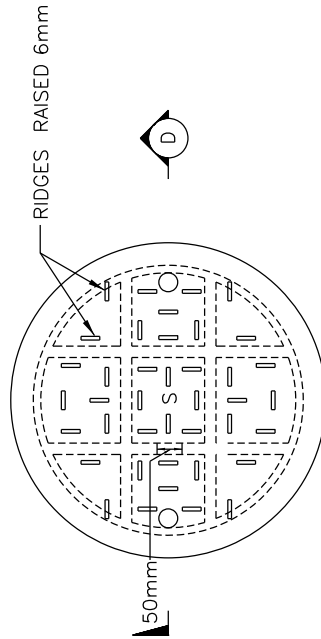
1. WHEREVER MANHOLES ARE SUBJECT TO TRAFFIC LOADS, RIBBED CAST IRON OR 100mm REINFORCED CONCRETE COVERS AS SHOWN SHALL BE USED UNLESS OTHERWISE INDICATED
2. WHERE A NON - TRAFFIC TYPE MANHOLE IS SHOWN ON THE PLANS, CAST IRON WITHOUT THE SUPPORTING RIBS MAY BE USED
3. COVER FRAMES SHALL BE SECURELY INSTALLED IN A BED OF CEMENT MORTAR
4. INSTALL SHALLOW MANHOLE TOP SLAB AND COVER WHEN DEPTH FROM TOP OF CONCRETE SLAB TO INVERT OF MANHOLE IS 1.5m OR LESS
5. INSTALL GALVANIZED STEEL LADDER ONLY WHEN DEPTH FROM TOP OF COVER TO INVERT OF MAIN SEWER EXCEEDS 1.2m, WALL ON WHICH LADDER IS INSTALLED SHALL BE VERTICAL FROM TOP SLAB TO INVERT.



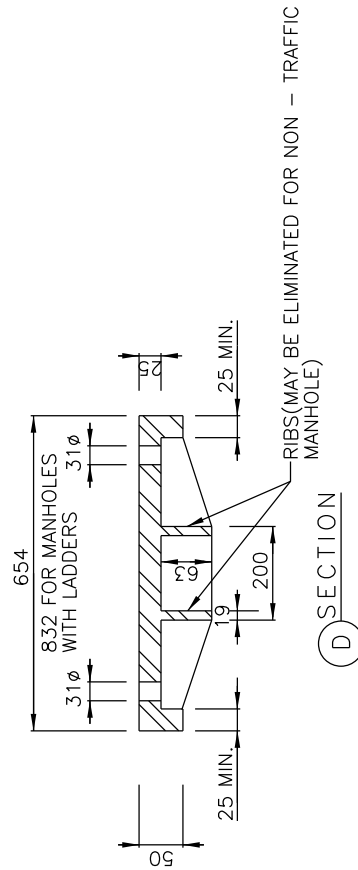
(A) FRAME - PLAN



(B) SECTION



(C) COVER - PLAN



(D) SECTION

NOTE : DESIGN OF RIBBED CAST IRON COVERS AND FRAMES IS BASED ON A WHEEL LOAD OF 7.3tonf PLUS 25% ALLOWANCE FOR IMPACT.
 OTHER DESIGNS DIFFERING ONLY IN NON - ESSENTIAL DETAILS AND AS APPROVED BY THE CONTRACTING OFFICER MAY BE USED. TOTAL WEIGHT SHALL NOT BE LESS THAN 181 kgf. THE LETTER "S" AT LEAST 50 HIGH SHALL BE CAST IN CENTER OF COVER.

CAST IRON MANHOLE FRAME AND COVER
 NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

CAST IRON MANHOLE FRAME AND COVER

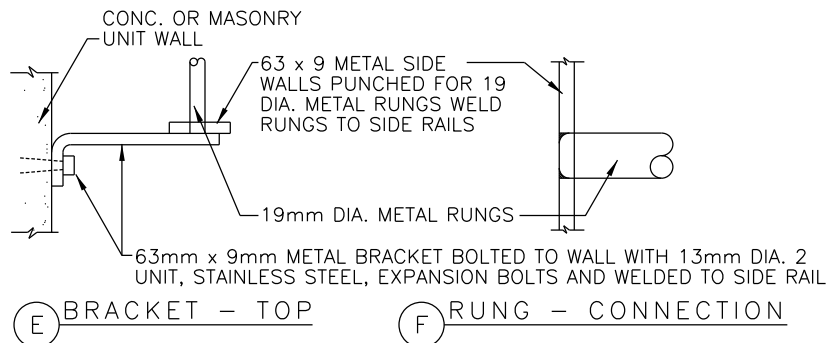
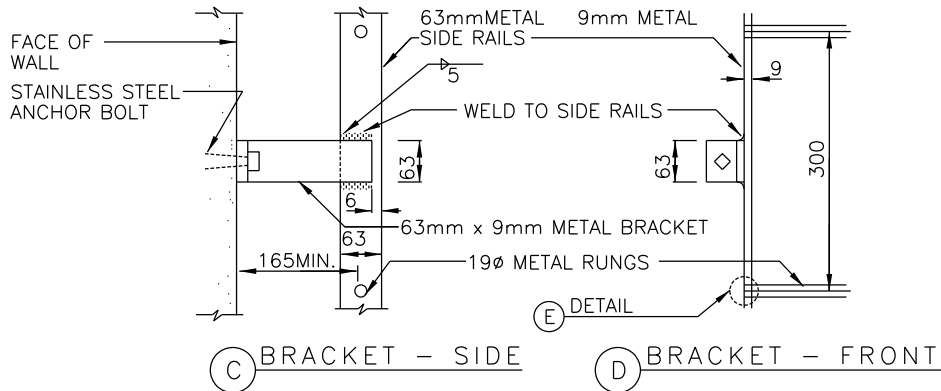
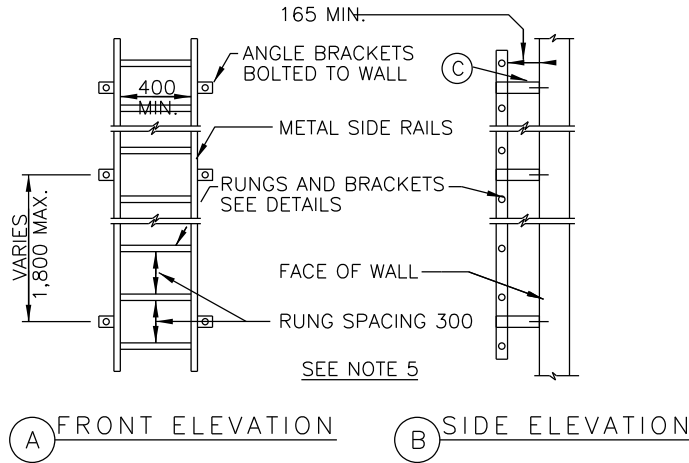
OMA SPEC

333000

DWG NO.

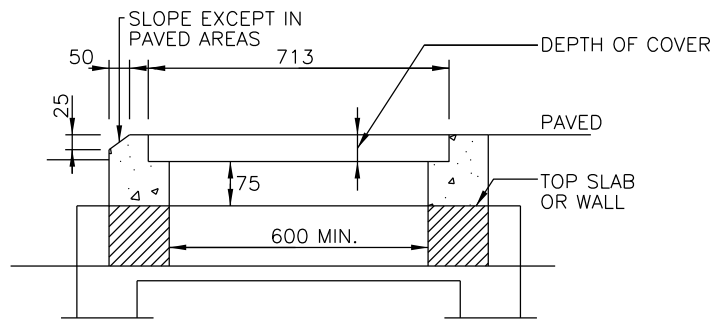
C - 904

1. WHEREVER MANHOLES ARE SUBJECT TO TRAFFIC LOADS, RIBBED CAST IRON OR 100mm REINFORCED CONCRETE COVERS AS SHOWN SHALL BE USED UNLESS OTHERWISE INDICATED
2. WHERE A NON - TRAFFIC TYPE MANHOLE IS SHOWN ON THE PLANS, CAST IRON WITHOUT THE SUPPORTING RIBS MAY BE USED
3. CAST IRON WITHOUT THE SUPPORTING RIBS MAY BE USED
4. INSTALL SHALLOW MANHOLE TOP SLAB AND COVER WHEN DEPTH FROM TOP OF CONCRETE SLAB TO INVERT OF MANHOLE IS 1.5m OR LESS
5. INSTALL GALVANIZED STEEL LADDER ONLY WHEN DEPTH FROM TOP OF COVER TO INVERT OF MAIN SEWER EXCEEDS 1.2m, WALL ON WHICH LADDER IS INSTALLED SHALL BE VERTICAL FROM TOP SLAB TO INVERT.

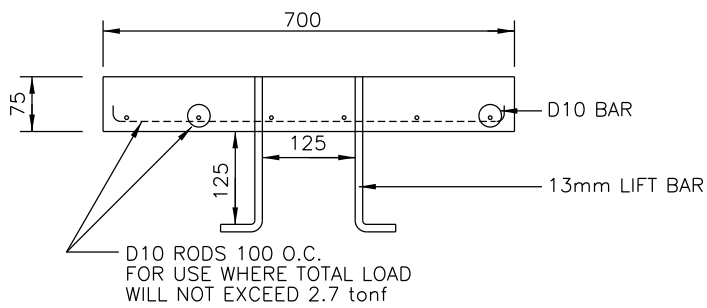


GALVANIZED STEEL M. H. LADDER
NOT TO SCALE

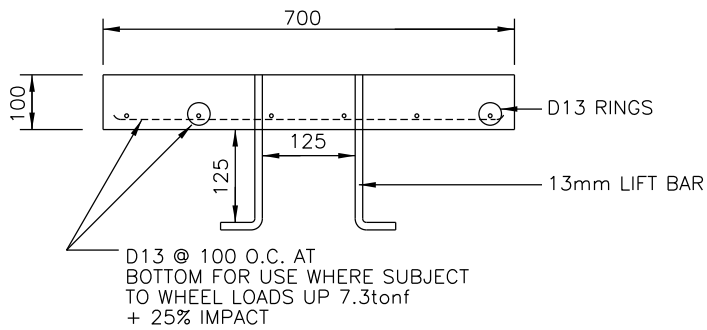
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	STAINLESS STEEL MANHOLE LADDER	333000	C - 905



SECTION
FRAME FOR STANDARD MANHOLE

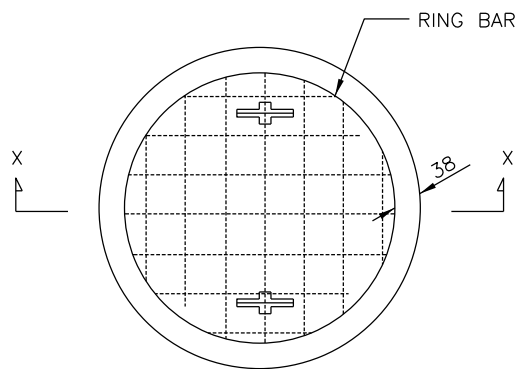


75mm COVER



100mm COVER

SECTION X-X

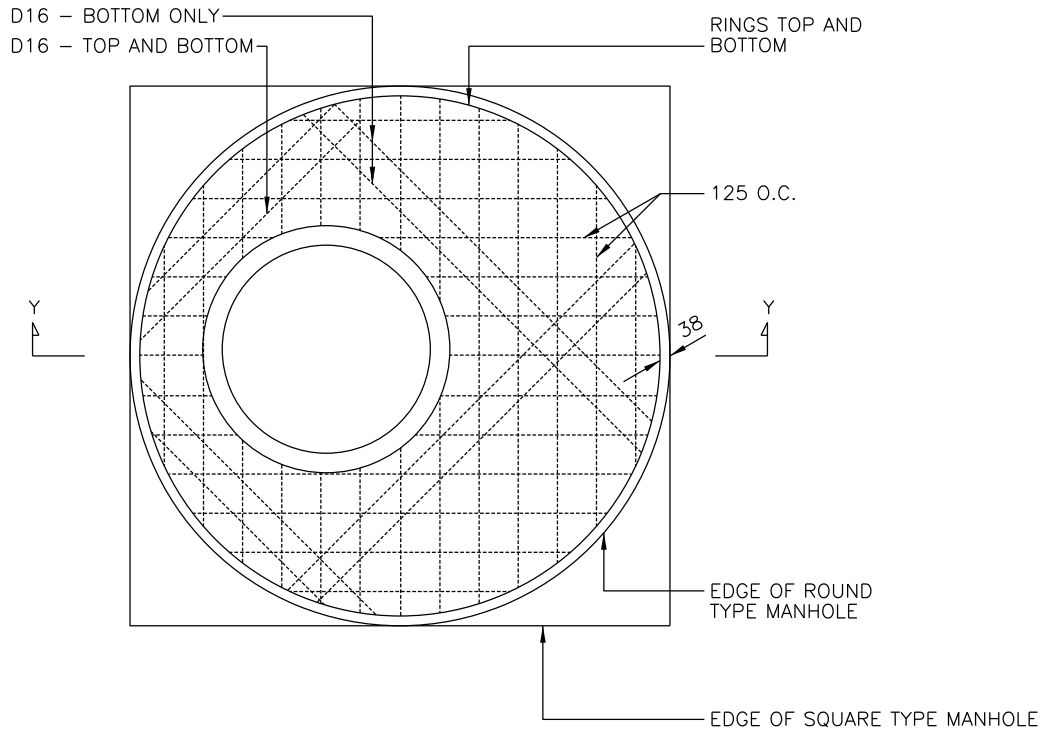


PLAN
REMOVABLE COVER

CONCRETE MANHOLE COVER - 1
NOT TO SCALE

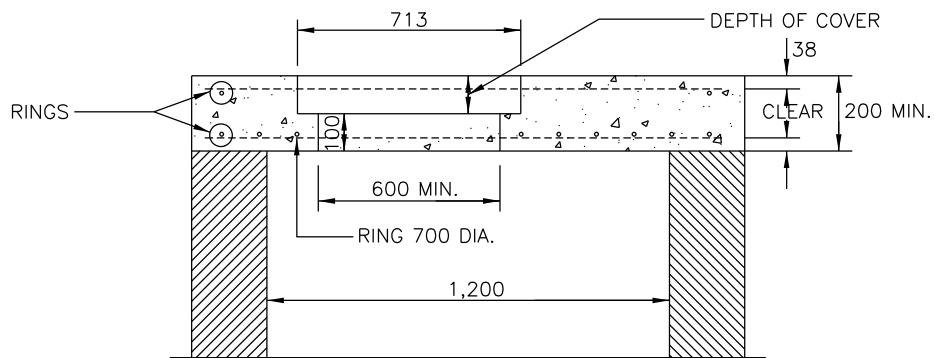
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CONCRETE MANHOLE COVER - 1	333000	C - 906

REV DATE: NOV 2015



PLAN

NOTE :
FOR SQUARE TYPE MANHOLE FRAMES
REINFORCING TO EXTEND TO 38mm FROM FACE



SECTION Y-Y

SHALLOW MANHOLE FRAME

CONCRETE MANHOLE COVER - 2

NOT TO SCALE

NOTE :
CONCRETE COVERS AND FRAMES USE A, 210 kgf/cm² CONCRETE. STEEL RINGS
MAY BE EITHER LAPPED OR WELDED AT ENDS ALL BARS SHALL BE HOOKED TO RINGS



O&MA STANDARD DETAILS, KOREA

OMA SPEC

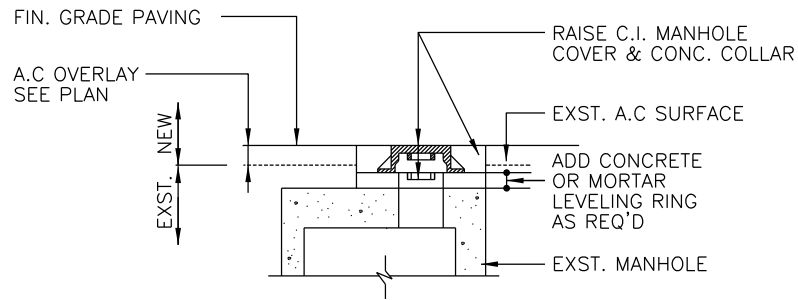
DWG NO.

TITLE

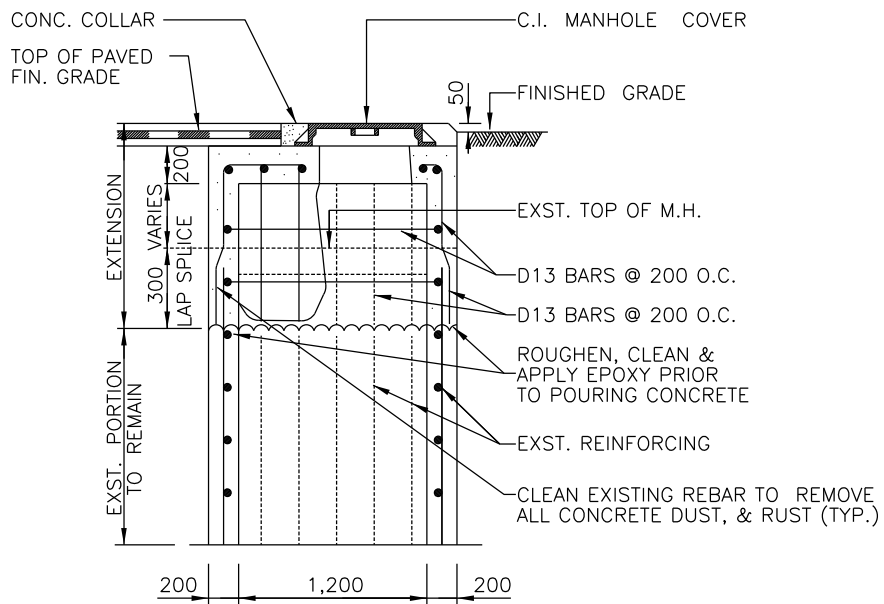
CONCRETE MANHOLE COVER - 2

333000

C - 907



RAISE MANHOLE COVER DETAIL
NOT TO SCALE



RAISE EXISTING MANHOLE – DETAIL
NOT TO SCALE

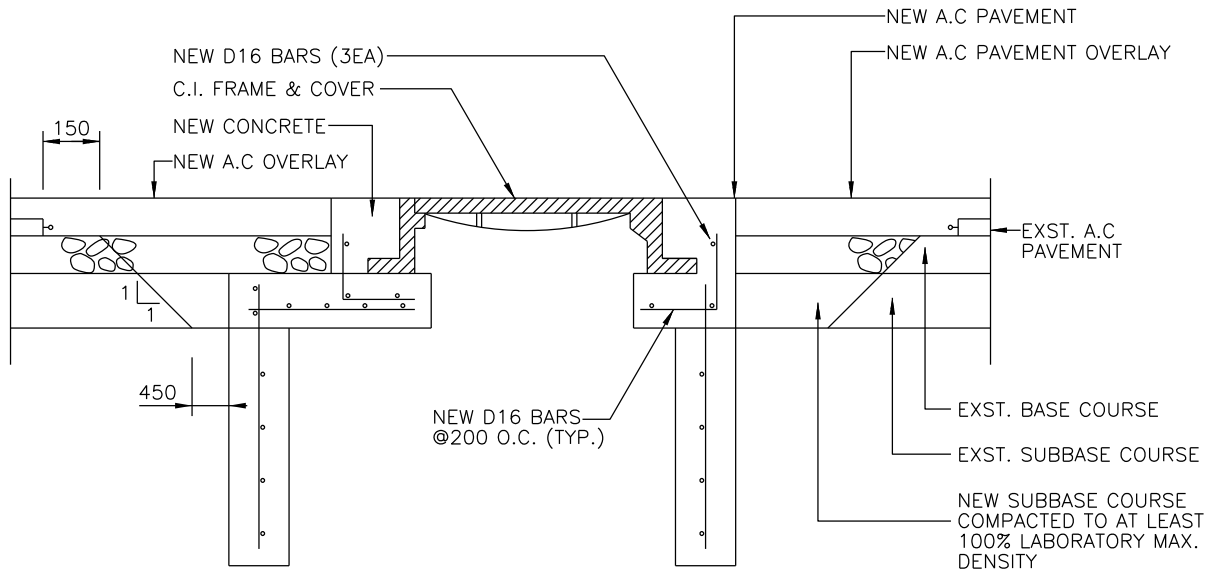
GENERAL NOTES

1. RAISE MANHOLE DETAILS MAY BE USED FOR WATER, AND STORM DRAIN MANHOLES IF SHOWN ON THE PLANS

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	RAISED EXISTING MANHOLE COVER	333000	C - 908

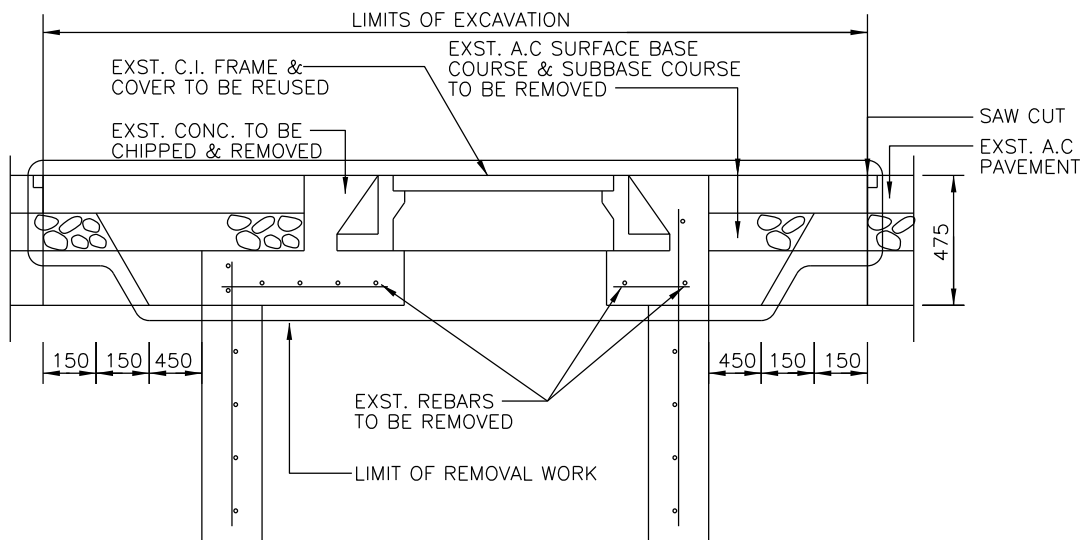
SEQUENCE OF REPAIR WORK:

1. EXCAVATE TO LIMITS SHOWN ON REMOVAL WORK SECTION.
2. CHIP. CONC. BASE & REMOVE C.I. FRAME & COVER (C.I. FRAME & COVER TO BE REUSED)
3. CONSTRUCT NEW CONC. BASE TO REQUIRED ELEV. USING OLD (C.I. FRAME & COVER (SEE RAISING MANHOLE SECTION))
4. SUBGRADE PREPARATION
5. CONSTRUCT SUBBASE COURSE COMPACTED TO AT LEAST 100% OF CE-55 MAX. DENSITY. & BASE COURSE (COMPACT TO AT LEAST 100% LABORATORY MAX. DENSITY)
6. APPLY-TACK COAT & PRIME COAT
7. LAY A.C PAVING & OVERLAY.



RAISING MANHOLE
NOT TO SCALE

NOTE :
SEE DESIGN DOCUMENT
FOR SIZE OF MEMBERS



REMOVAL WORK
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

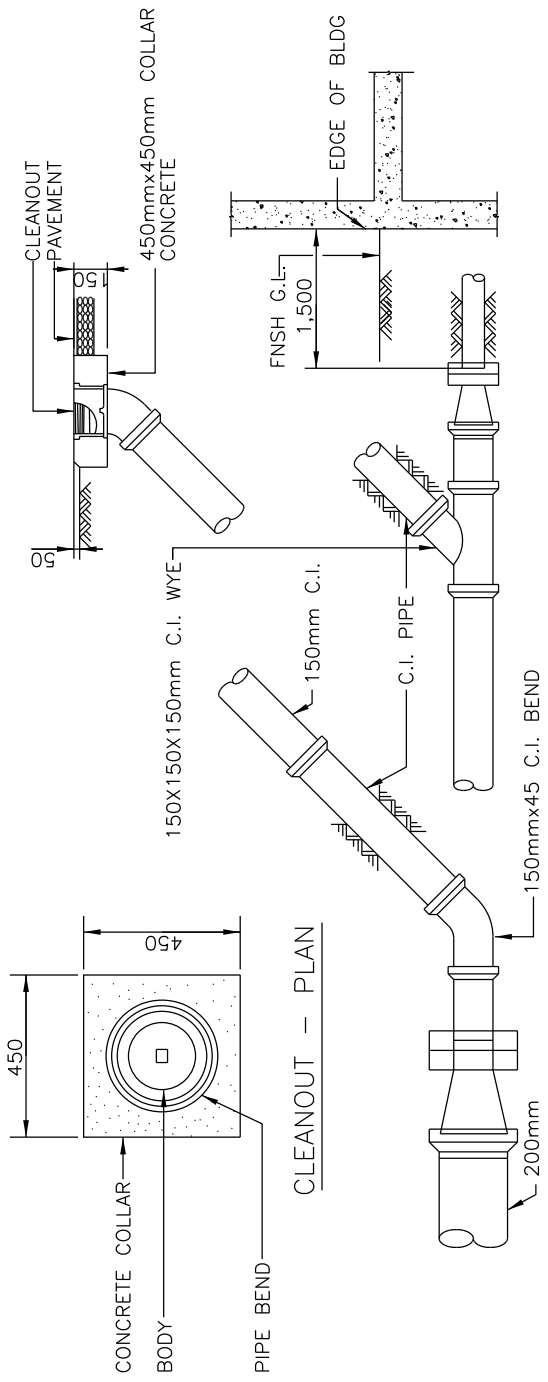
DWG NO.

TITLE

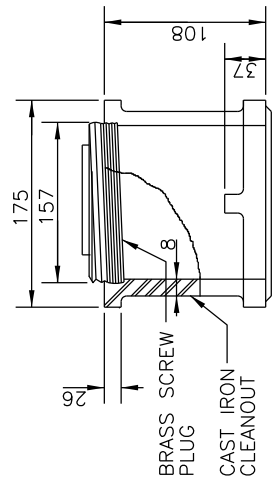
RAISING MANHOLE

333000

C - 909



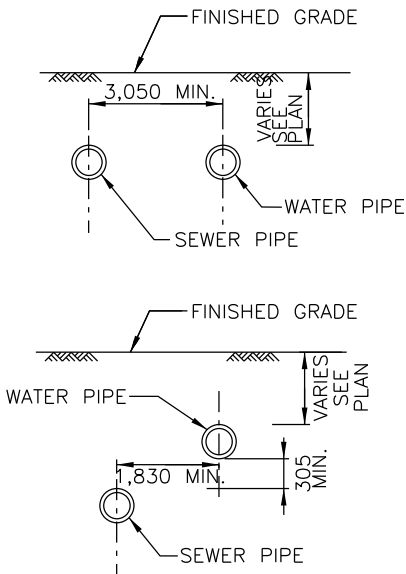
SURFACE CLEANOUT (TYPE I) BLDG CONNECTION WITH CLEANOUT (TYPE II)



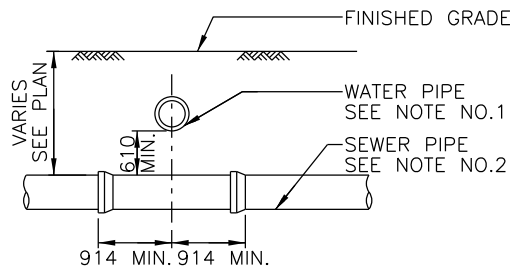
FERRULE PLUG - BLOW UP

SURFACE CLEANOUT AND BUILDING CONNECTION
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	SURFACE CLEANOUT AND CONNECTION	333000	C - 910



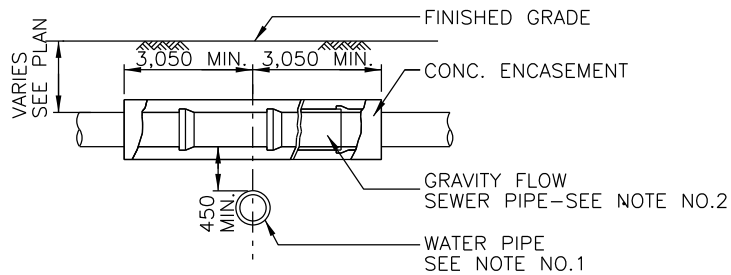
PARALLER PIPE LINES



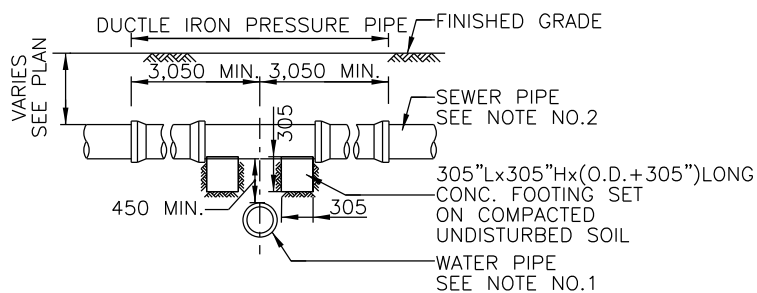
SEWER CROSSING UNDER

NOTES :

1. A FULL LENGTH OF WATER MAIN PIPE WILL BE CENTERED BETWEEN JOINTS OF THE SEWER PIPE
2. IF A SEWER LINE JOINT FALLS WITHIN 914mm HORIZONTALLY OF THE WATER LINE THE SEWER LINE WILL BE CONCRETE ENCASED FOR A DISTANCE OF 3050mm EACH SIDE OF CROSSING SHOWN BELOW.



SEWER CROSSING OVER-ALTERNATIVE # 1



SEWER CROSSING OVER-ALTERNATIVE # 2

WATER AND SEWER CROSSING AND PARALLER PIPES
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

DWG NO.

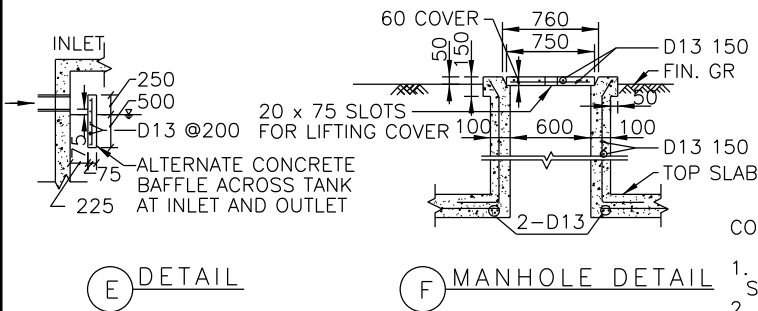
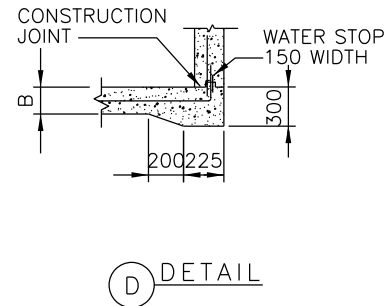
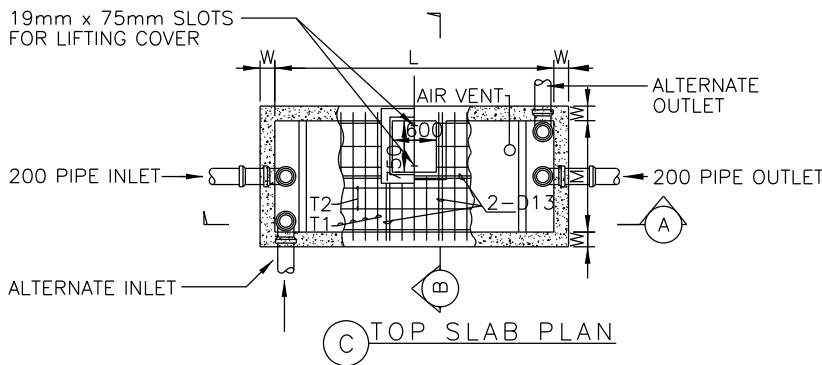
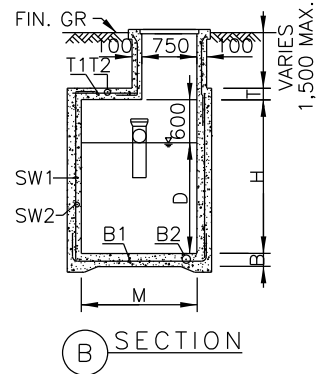
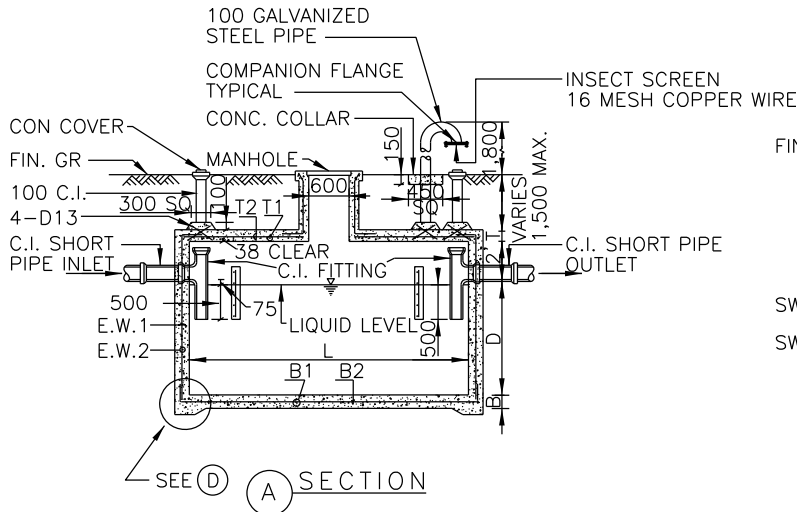
TITLE

WATER AND SEWER CROSSING AND PARALLER PIPES

333000

C - 911

REV DATE: NOV 2015



DESIGN NOTES :

- A. DESIGN LOADS
 1. NO TRAFFIC ON THE ROOF SLAB.
 2. MAXIMUM SOIL COVERAGE ON ROOF SLAB. 1,500
- B. MATERIAL STRENGTH
 1. REINFORCING STEEL. $F_y = 276 \text{ Mpa}$
 2. CONCRETE CLASS AA. $F_c = 27.6 \text{ Mpa}$

CONSTRUCTION NOTES :

- MINIMUM REINFORCEMENT LAP SPLICE LENGTH SHALL BE $48d$ OR 600 AS A MINIMUM.
- REINFORCEMENT DETAILING AND PLACEMENT, UNLESS OTHERWISE NOTED, SHALL CONFORM TO ACI 318-14 AND SP-66 ACI.
- CONCRETE COVERING FOR REINFORCEMENT SHALL BE AS FOLLOWS :
 BASE SLAB BOTTOM 81
 ALL OTHER 31
- UNLESS OTHERWISE SHOWN CONCRETE FORMWORK TOLERANCES SHALL CONFORM TO ACI 347-88.
- ALL PIPE AND FITTINGS SHALL BE CAST IRON SOIL PIPE.
- AIR VENTS SHALL BE PAINTED ORANGE.

NOTE : ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

SEPTIC TANK (TYPE I)
 NOT TO SCALE

TYPE	TANK CAPACITY LITER(GAL)	TANK SIZE				REINFORCING BAR SCHEDULE									
		L	M	D	T	B	W	TOP SLAB		BOTTOM SLAB		SIDE WALL		END WALL	
								T1	T2	B1	B2	SW1	SW2	EW1	EW2
I	1,893(500)	1,950	900	1,200	200	200	200	13@250	13@300	13@150	13@200	13@150	13@125	13@200	13@125
	2,893(750)	2,300	1,100	1,350	200	200	200	13@200	13@300	13@150	13@200	13@150	13@125	13@200	13@125
	3,785(1,000)	2,550	1,200	1,350	200	200	200	13@200	13@300	13@150	13@200	13@150	13@125	13@200	13@125
	5,678(1,500)	2,925	1,350	1,500	200	200	200	13@300	13@250	13@175	13@200	13@175	13@125	13@200	13@125
	6,624(1,750)	3,250	1,425	1,575	200	200	200	13@300	13@250	13@175	13@300	13@175	13@125	13@300	13@125
	7,570(2,000)	3,450	1,500	1,575	200	200	200	13@250	13@250	13@150	13@300	13@150	13@125	13@300	13@125
	9,464(2,500)	3,750	1,575	1,575	200	200	200	13@250	13@250	13@150	13@300	13@150	13@125	13@300	13@125



O&MA STANDARD DETAILS, KOREA

OMA SPEC

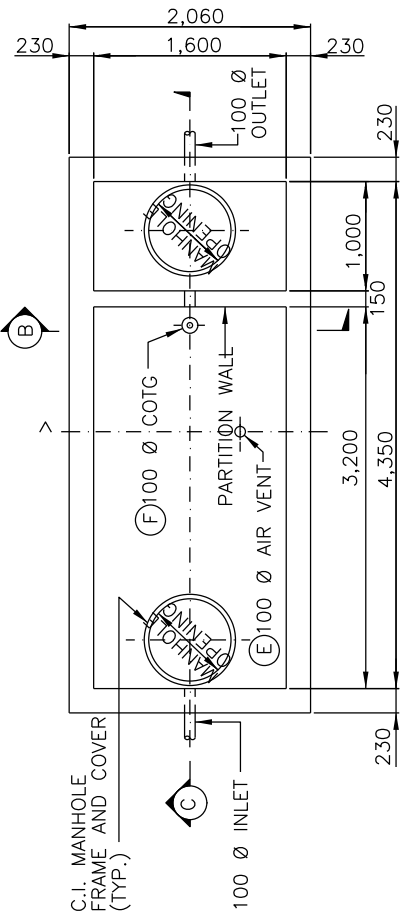
DWG NO.

TITLE

STANDARD CONCRETE SEPTIC TANK (TYPE 1)

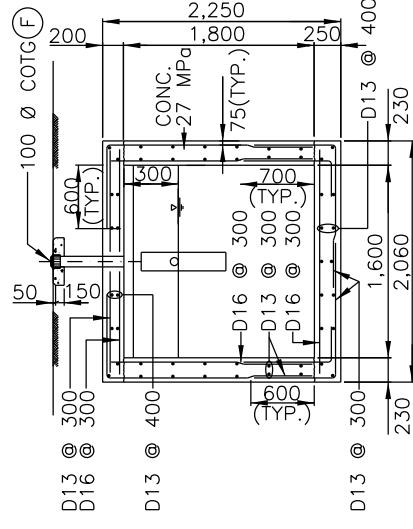
333000

C - 912

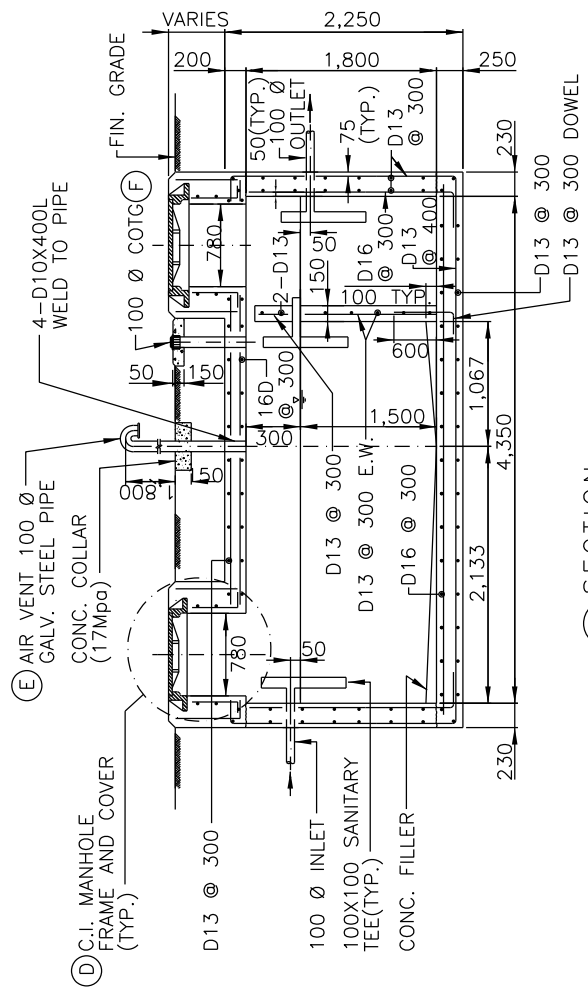


A. DESIGN LOADS
 1. NO TRAFFIC ON THE ROOF SLAB
 2. MAXIMUM SOIL COVERAGE ON ROOF SLAB=1,500mm

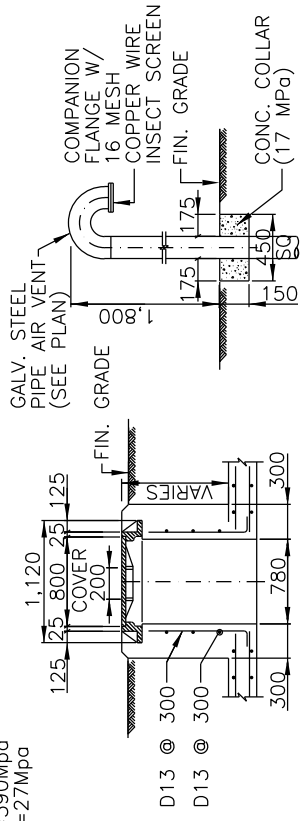
B MATERIAL STRENGTH:
 1. REINFORCING STEEL $F_y=390\text{Mpa}$
 2. CONCRETE $f_c=27\text{Mpa}$



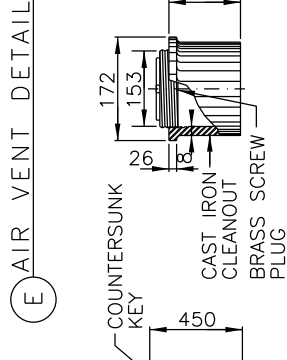
B SECTION



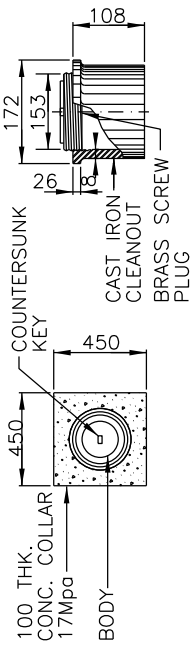
C SECTION



D MANHOLE DETAIL



E AIR VENT DETAIL



F COTG DETAIL

SEPTIC TANK DETAIL (TYPE II)
 NOT TO SCALE

NOTE:
 UNLESS OTHERWISE NOTED, ALL DIMENSIONS
 ARE IN MILLIMETERS



O&MA STANDARD DETAILS, KOREA

TITLE STANDARD CONCRETE SEPTIC TANK (TYPE 2)

OMA SPEC 333000

DWG NO. C-913



O&MA STANDARD DETAILS, KOREA

OMA SPEC

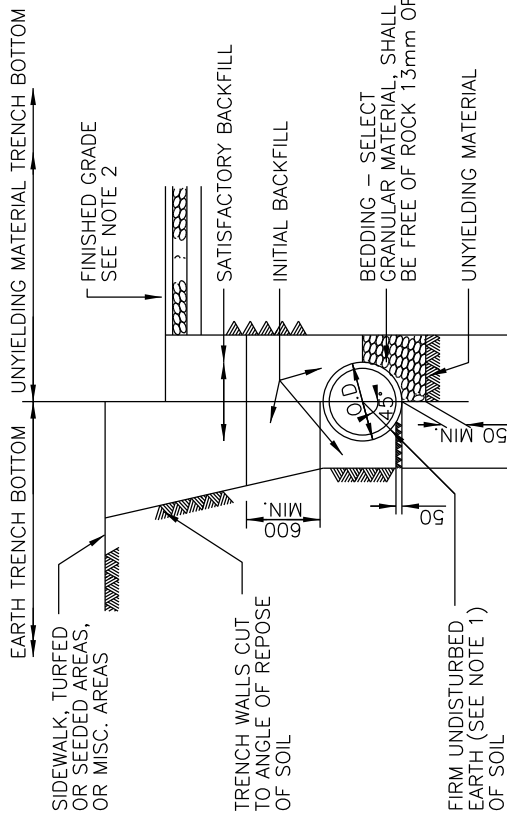
DWG NO.

TITLE

PIPE TRENCH INSTALLATION

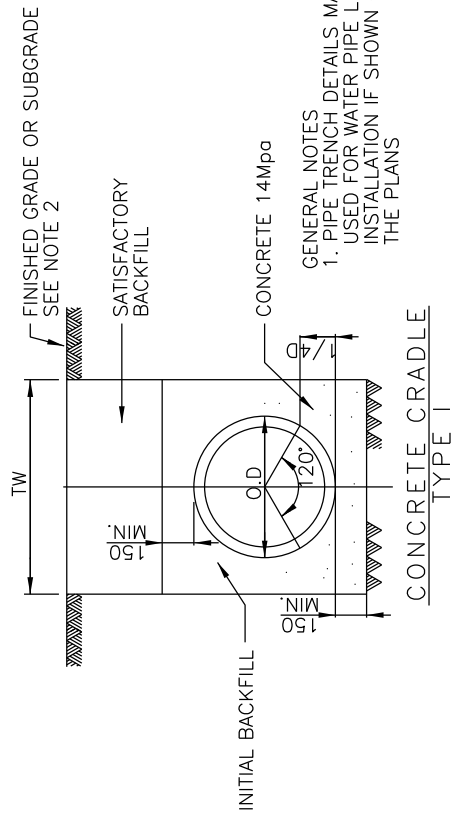
333000

C - 914

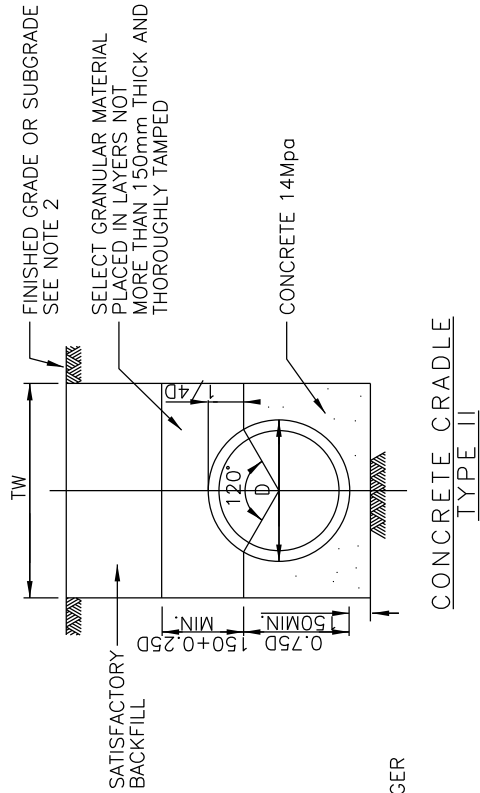


NOTE : TW (O.D. + 450 FOR 600 OR LESS I.D. PIPE)
(O.D. + 600 FOR 900 OR MORE I.D. PIPE)

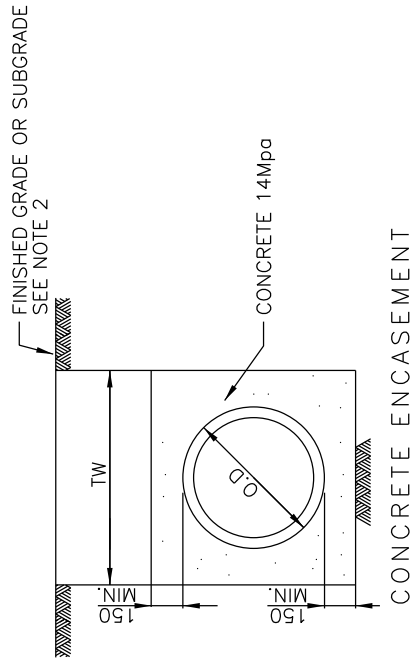
TYPICAL TRENCH SECTION



GENERAL NOTES
1. PIPE TRENCH DETAILS MAY BE USED FOR WATER PIPE LINE INSTALLATION IF SHOWN ON THE PLANS



NOTES :
1. BELL HOLES SHALL BE EXCAVATED TO THE NECESSARY SIZE AT EACH JOINT OR COUPLING TO ELIMINATE POINT BEARING

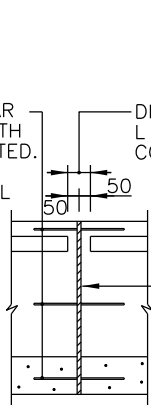


PIPE TRENCH INSTALLATION NOT TO SCALE

19mm DIA. PLAIN BAR
DOWEL 400mm LENGTH
W/ ONE END LUBRICATED.
SPACED SAME
AS THE LONGITUDINAL
REINFORCEMENT

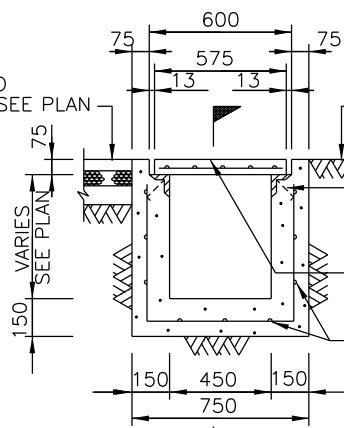
DISCONTINUE
L 50mmx50mmx6mm
COVER SEATS

13mm PREMOLDED
JOINT FILLER
MATERIAL



(A) PRECAST

A.C. PAVED
SECTION, SEE PLAN



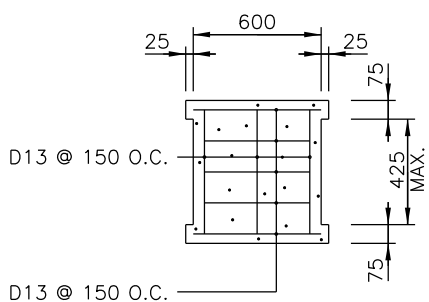
FIN. GRADE

L-50mmx50mmx6mm W/
75mmx125mm L.G. ANCHORS
WELDED TO ANGLE
@900 O.C.

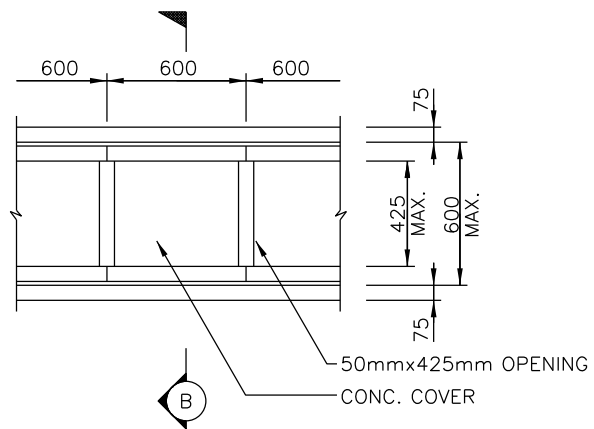
COVER
75mm (C)

D13 @ 300 O.C.
EACH WAY

(B) SECTION



(C) COVER DETAIL



50mmx425mm OPENING
CONC. COVER

NON – TRAFFIC TYPE CONCRETE COVERED DITCH
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

DWG NO.

TITLE

CONC. COVERED DITCH

334000

C - 1001

REV DATE: NOV 2015



O&MA STANDARD DETAILS, KOREA

TITLE

STEEL GRATING COVERED DITCH

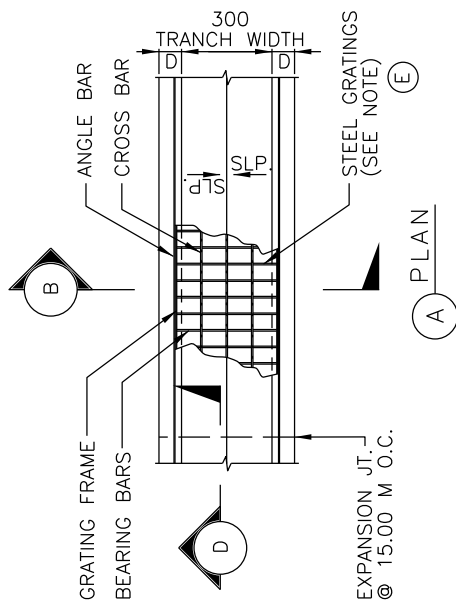
OMA SPEC

334000

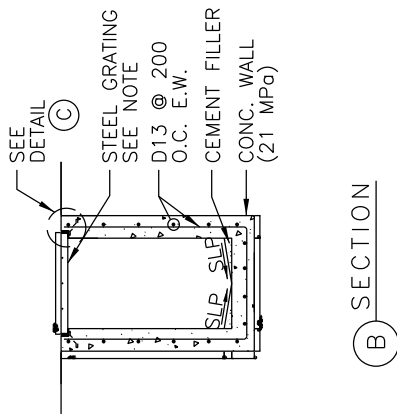
DWG NO.

C - 102

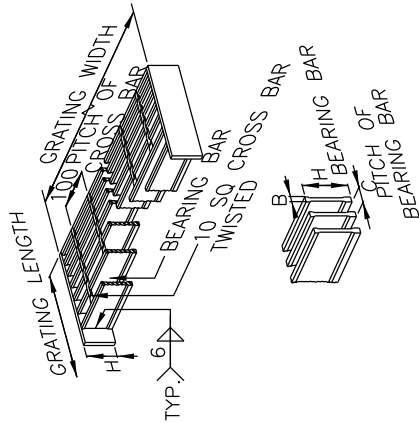
REV DATE: NOV 2015



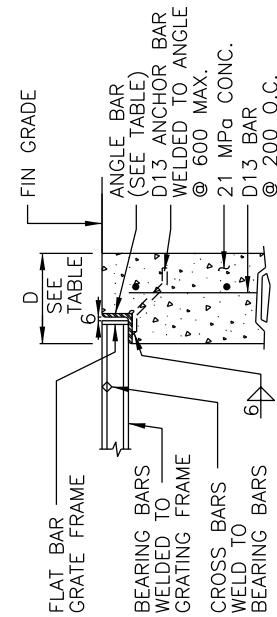
(A) PLAN



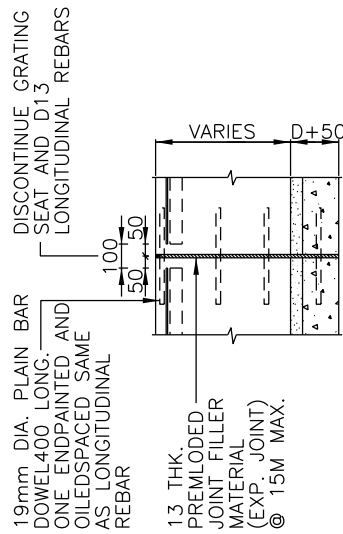
(B) SECTION



(C) DETAIL



(D) SECTION



STEEL GRATING SCHEDULE		
TRENCH WIDTH	H	B/C D ANGLE BAR
450 & SMALLER	65	6 35/150 L70x70x6
500 TO 600	75	6 35/200 L80x80x6
650 TO 750	75	6 25/200 L80x80x6

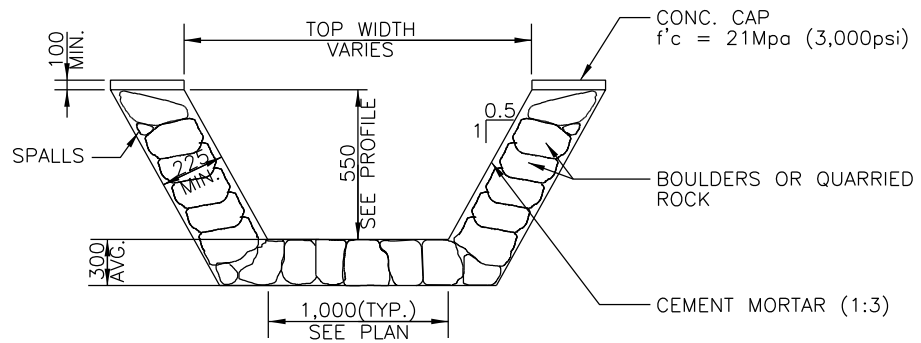
NOTE:

STEEL GRATINGS FOR CONCRETE DITCHES SHALL COMPLY WITH SPECS. MINIMUM TRAFFIC LOAD FOR STEEL GRATINGS ON CONCRETE DITCHES SHALL BE FOR 20-TON DESIGN TRUCK LOAD: WHEEL LOAD = 79 KN(8.0 TONS).

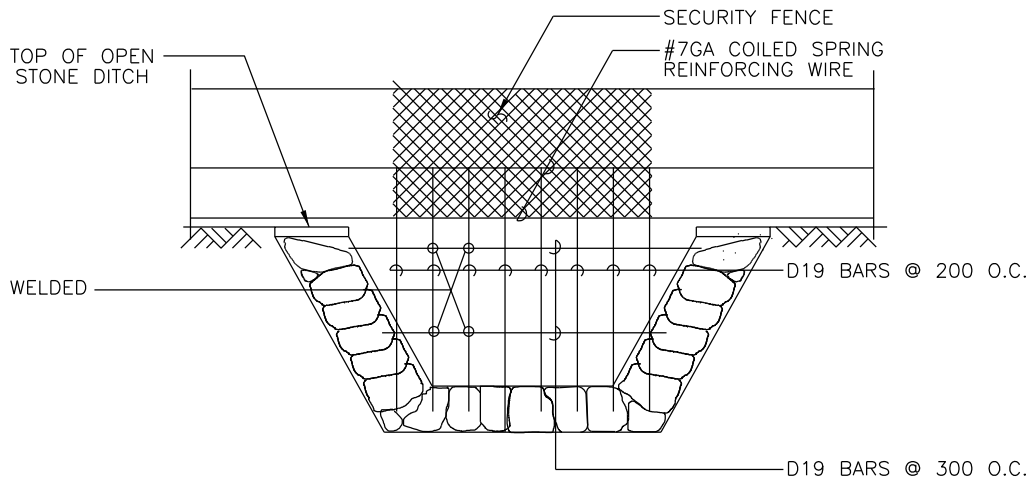
(E) STEEL GRATINGS

CONC. DITCH W/STEEL GRATINGS

NOT TO SCALE



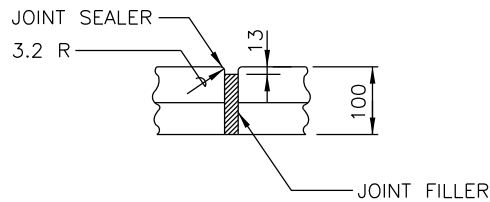
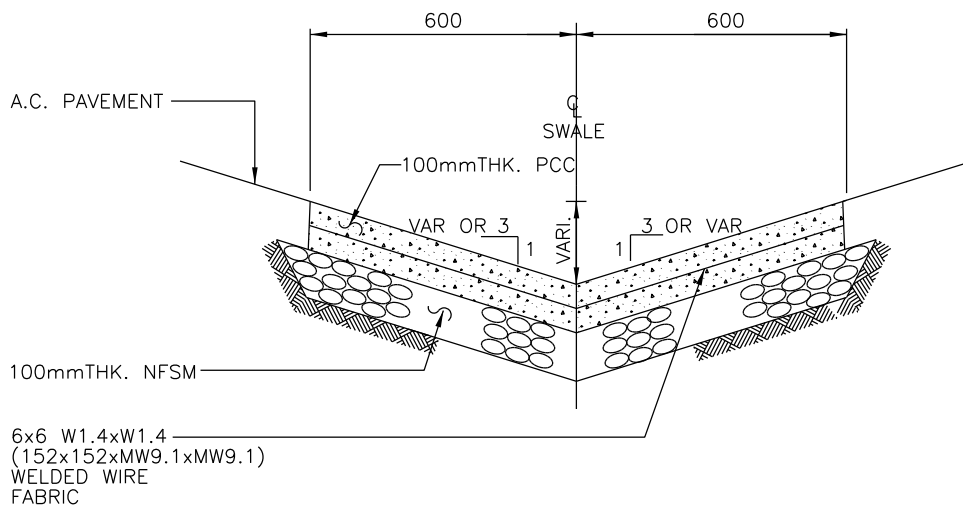
OPEN STONE DITCH
NOT TO SCALE



MAN PROOFING
NOT TO SCALE

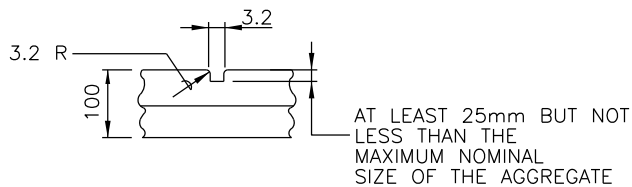
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	OPEN STONE DITCH/MAN PROOFING	334000	C - 1003

REV DATE: NOV 2015



EXPANSION JOINT

EXPANSION JOINT ARE TO BE PROVIDED AT MAXIMUM INTERVALS OF 15 METER ON STRAIGHT PORTIONS, AT THE BEGINNING AND ENDS OF ALL CURVES AND WHERE LINING ABUTS OTHER CONCRETE.



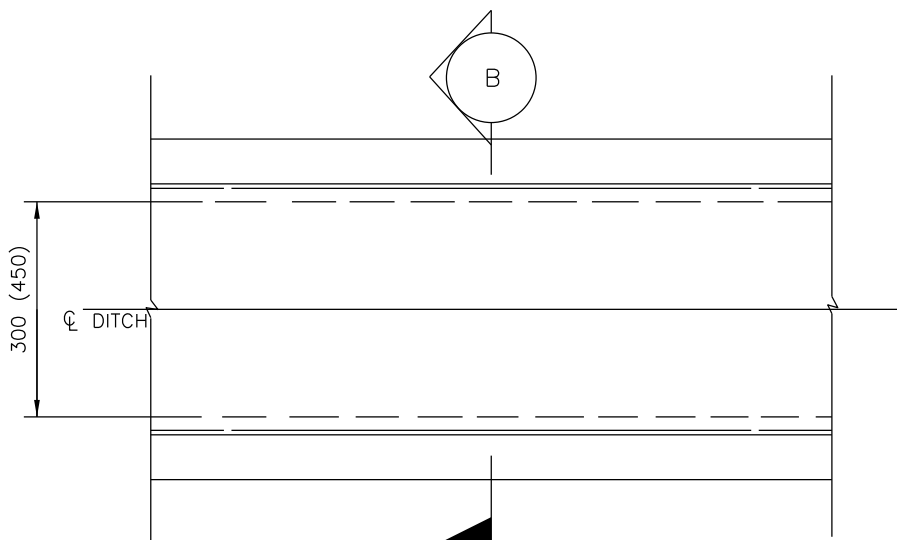
CONTRACTION JOINT

CONTRACTION JOINTS ARE TO PROVIDE THROUGHOUT AND SHALL BE SPACED SO THAT LENGTH TO WIDTH RATIO OF THE SLAB DOES NOT EXCEED 1.25

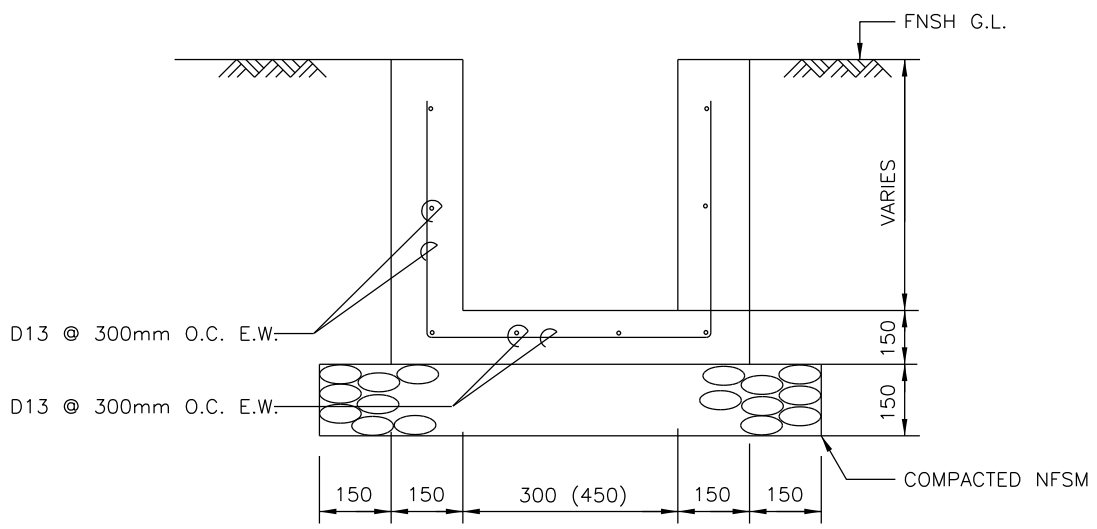
CONC. LINED SWALE

NOT TO SCALE

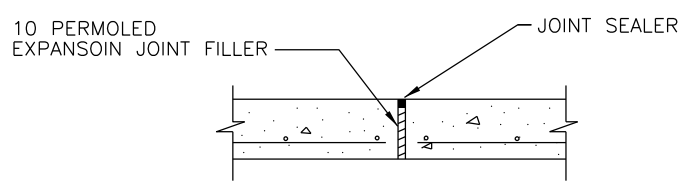
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CONC. LINED SWALE	334000	C - 1004



(A) PLAN



(B) SECTION



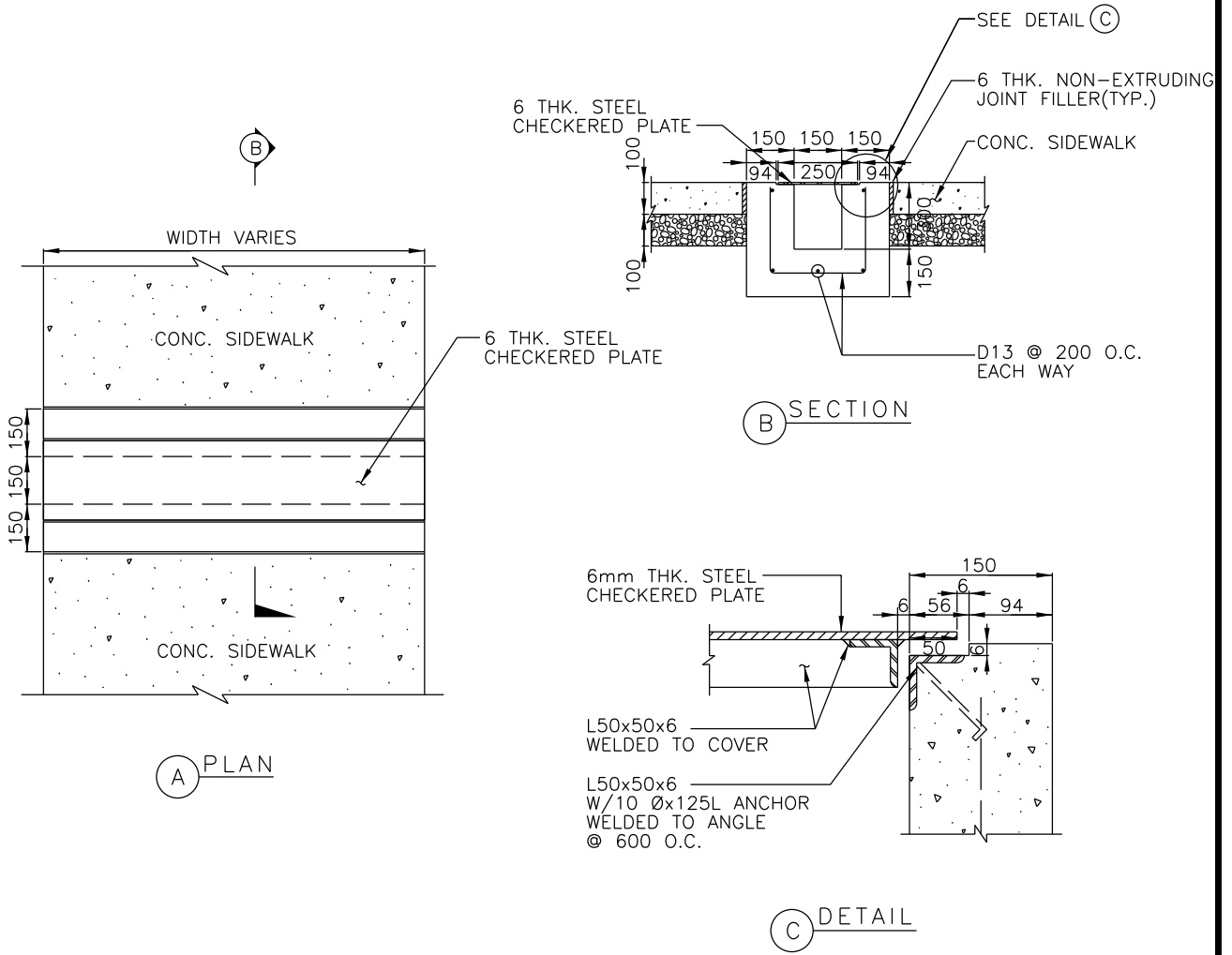
(C) EXPANSION JOINT

NOTE:
1. PROVIDE EXPANSION JOINT AT MAX. 15M INTERVALS


CONC. OPEN DITCH
NOT TO SCALE

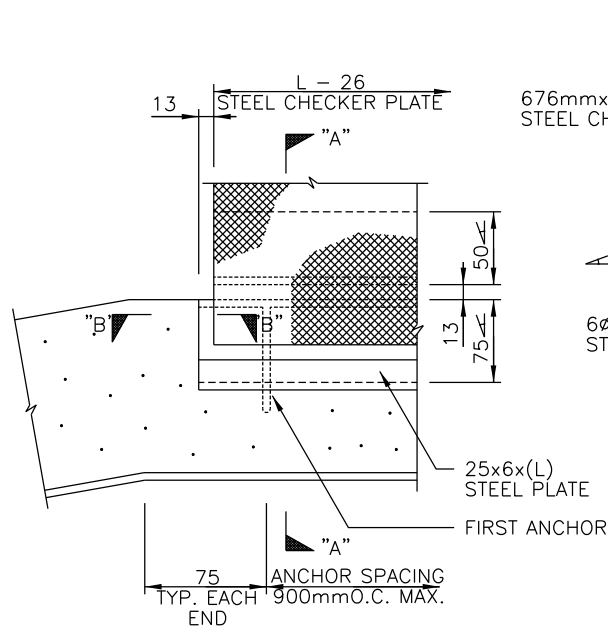
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CONC. OPEN DITCH	334000	C - 1005

REV DATE: NOV 2015

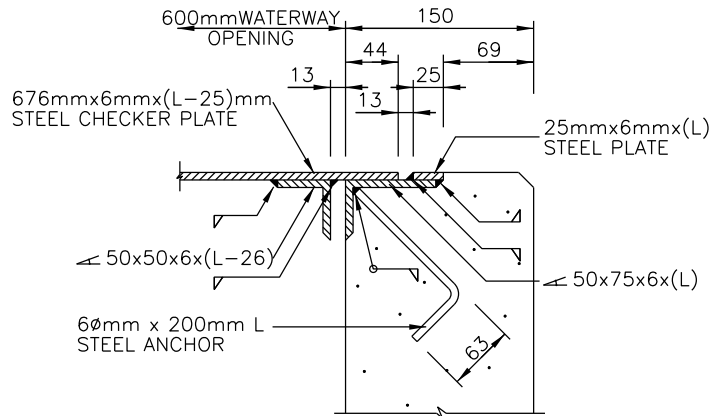


CONCRETE SIDEWALK DRAIN DETAIL
NOT TO SCALE

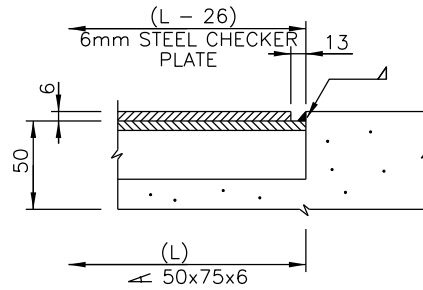
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CONCRETE SIDEWALK DRAIN DETAIL	334000	C - 1006



PLAN

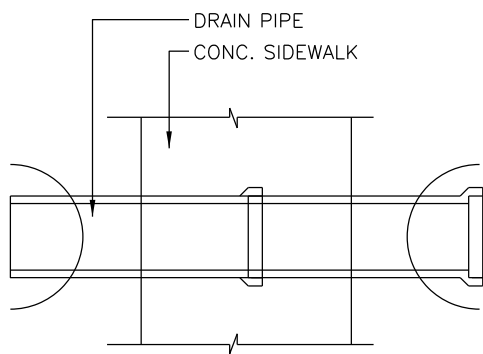


A SECTION "A" - "A"

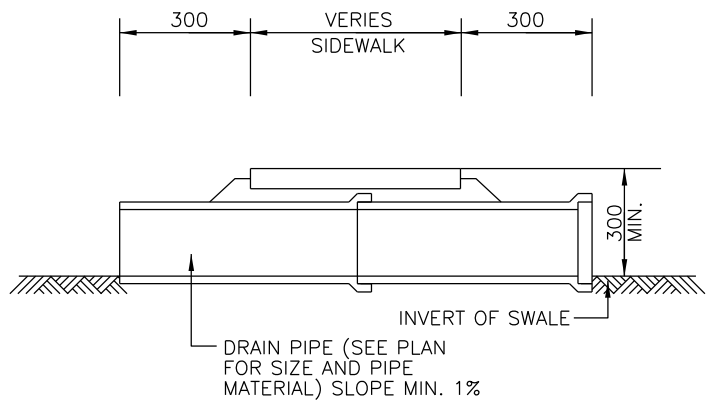


B SECTION "B" - "B"

SIDEWALK CULVERT
NOT TO SCALE



PLAN



SECTION

SIDEWALK DRAIN
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

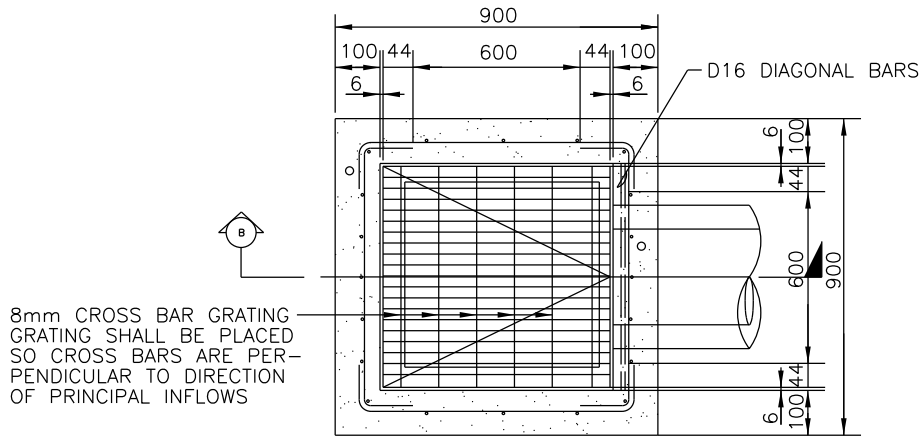
SIDEWALK CULVERT

OMA SPEC

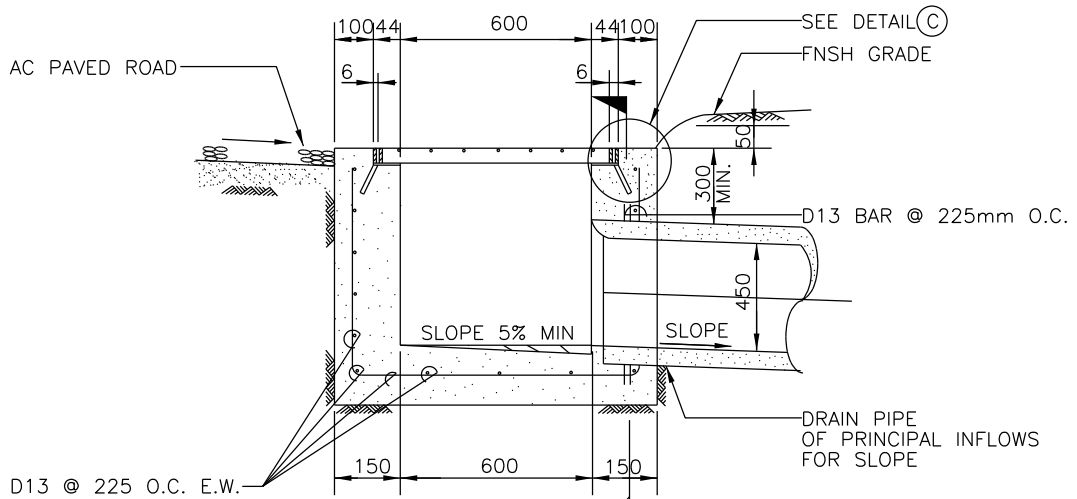
334000

DWG NO.

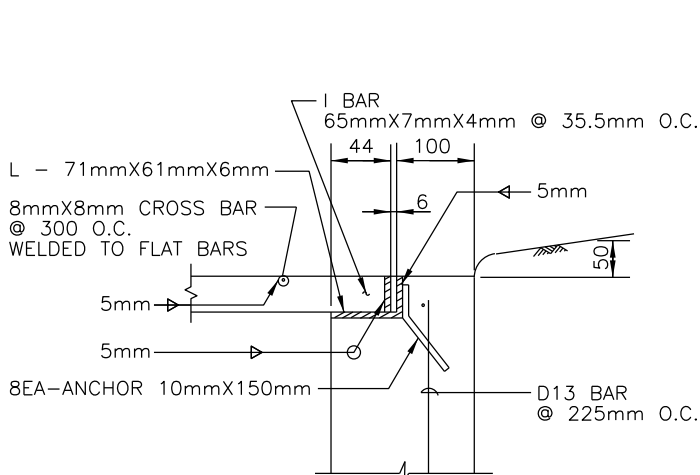
C - 1007



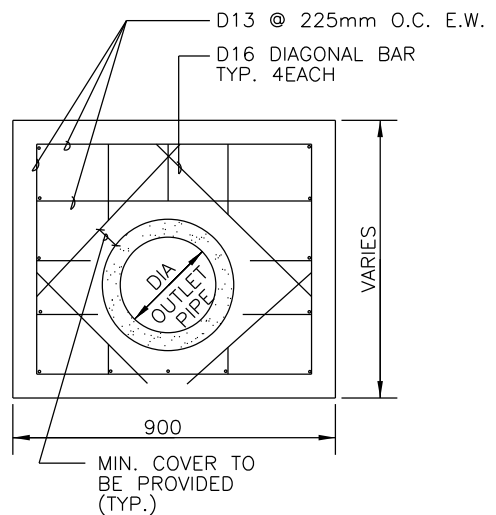
(A) SHALLOW SURFACE INLET - PLAN



(B) SECTION



(C) DETAIL



(D) SECTION

SURFACE INLET TYPE - 1
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	SURFACE INLET TYPE - 1	334000	C - 1008



O&MA STANDARD DETAILS, KOREA

OMA SPEC

DWG NO.

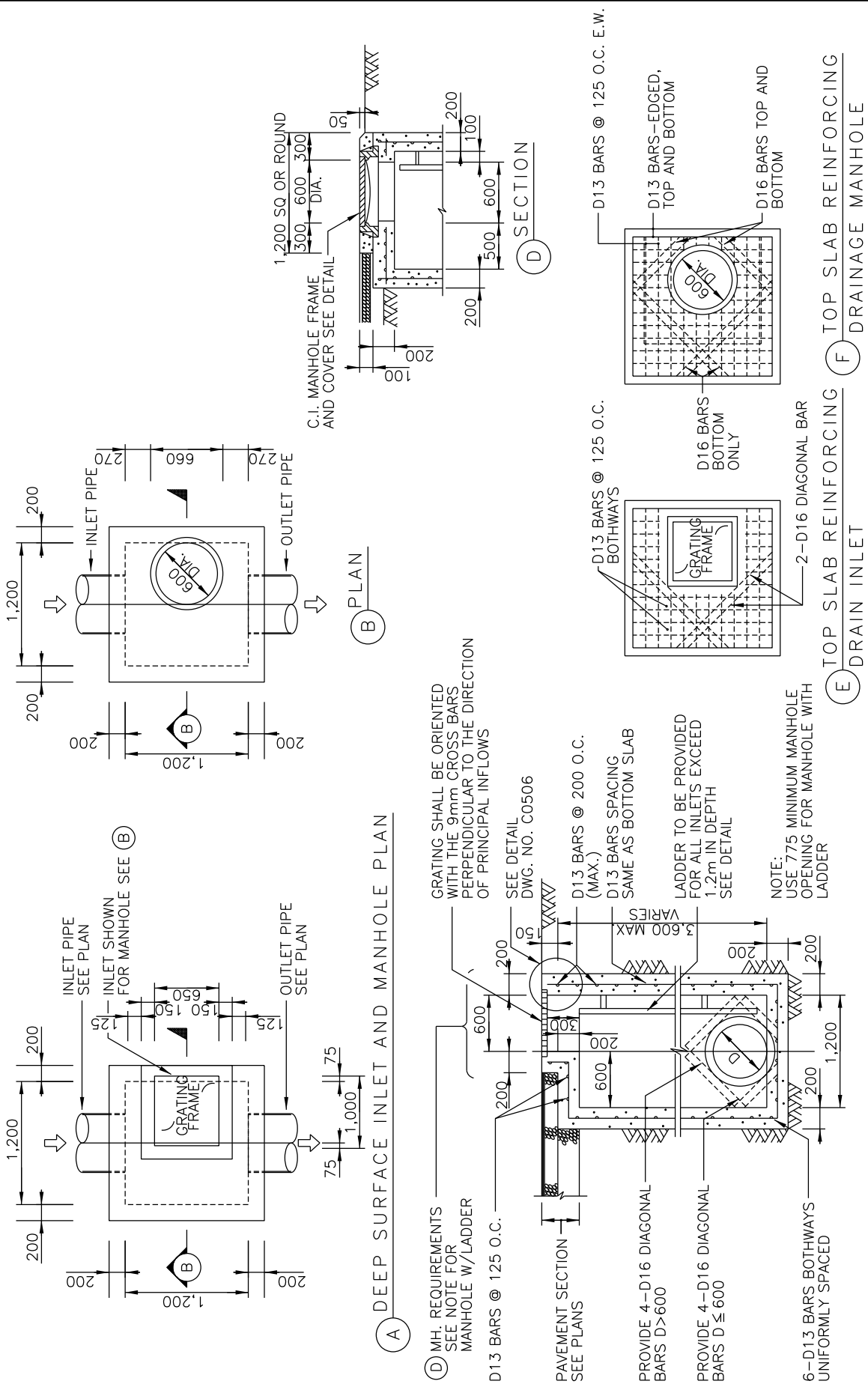
TITLE

SURFACE INLET TYPE - 2 & DRAIN MANHOLE

334000

C - 1009

REV DATE: NOV 2015



A DEEP SURFACE INLET AND MANHOLE PLAN

B PLAN

D SECTION

C SECTION

E TOP SLAB REINFORCING DRAIN INLET

F TOP SLAB REINFORCING DRAINAGE MANHOLE

GRATING SHALL BE ORIENTED WITH THE 9mm CROSS BARS PERPENDICULAR TO THE DIRECTION OF PRINCIPAL INFLOWS

SEE DETAIL DWG. NO. C0506

D13 BARS @ 125 O.C. (MAX.)
D13 BARS SPACING SAME AS BOTTOM SLAB

LADDER TO BE PROVIDED FOR ALL INLETS EXCEED 1.2m IN DEPTH SEE DETAIL

NOTE: USE 775 MINIMUM MANHOLE OPENING FOR MANHOLE WITH LADDER

D MH. REQUIREMENTS SEE NOTE FOR MANHOLE W/LADDER

D13 BARS @ 125 O.C.

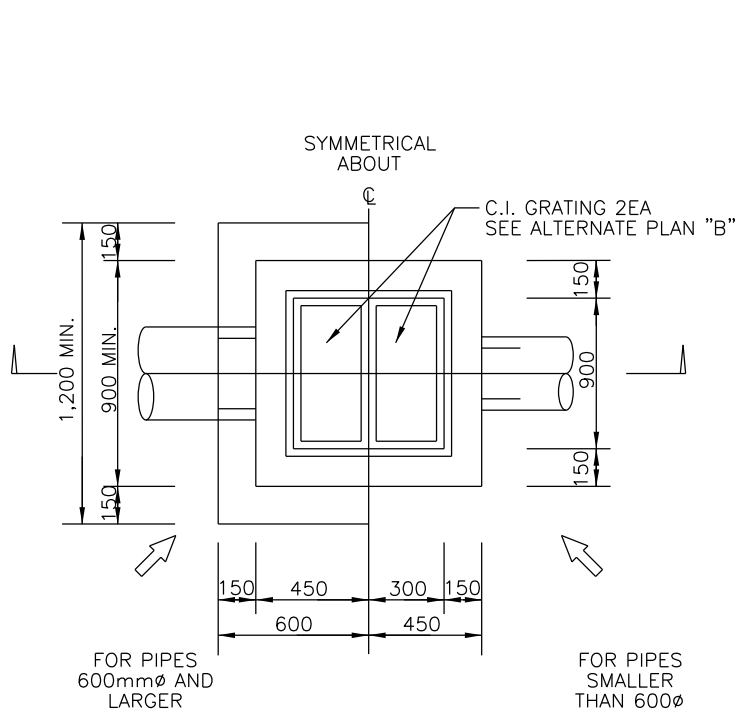
PAVEMENT SECTION SEE PLANS

PROVIDE 4-D16 DIAGONAL BARS D > 600

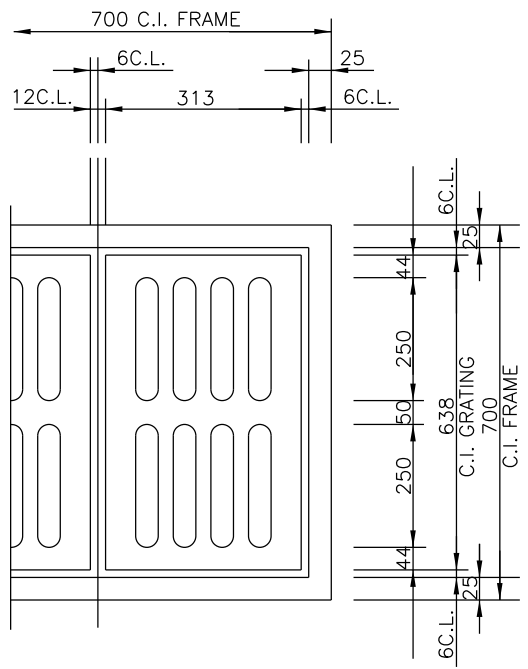
PROVIDE 4-D16 DIAGONAL BARS D ≤ 600

6-D13 BARS BOTHWAYS UNIFORMLY SPACED

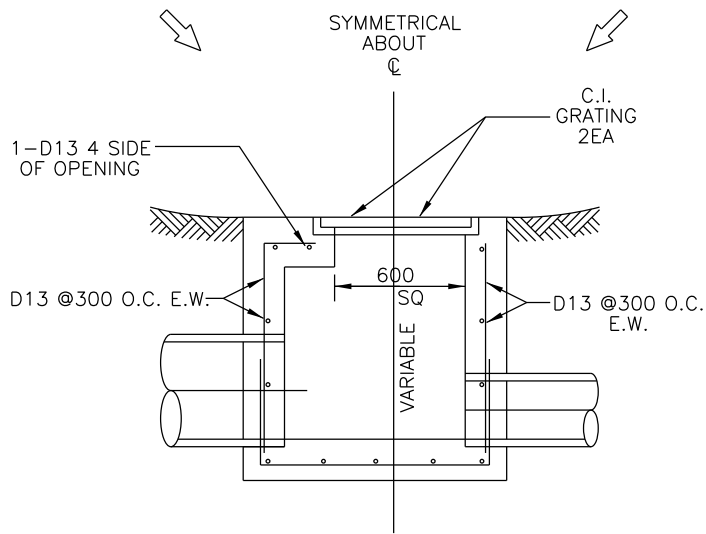
G SURFACE INLET TYPE - 2 & DRAIN MANHOLE NOT TO SCALE



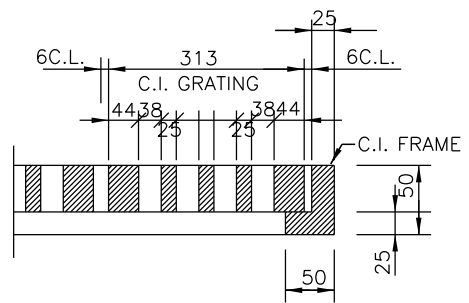
ALTERNATE PLAN "A"



ALTERNATE PLAN "B"



ALTERNATE SECTION



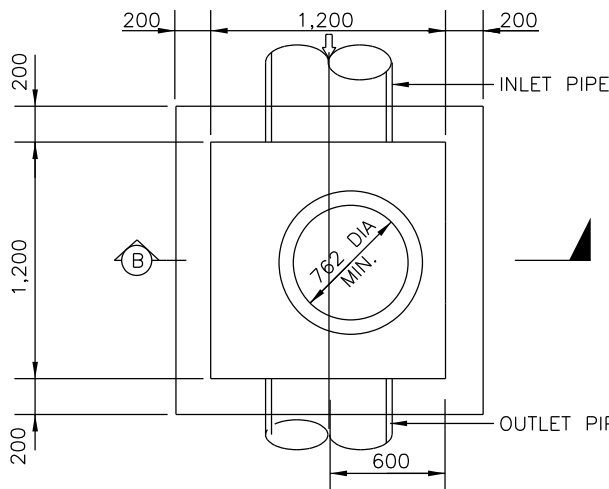
SECTION

C.I. FRAME & GRATING

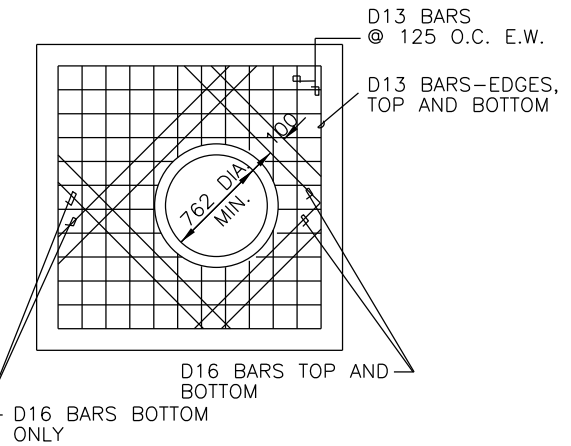
SURFACE (DRAINAGE) INLET
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	SURFACE INLET W/CI COVER	334000	C - 1010

REV DATE: NOV 2015

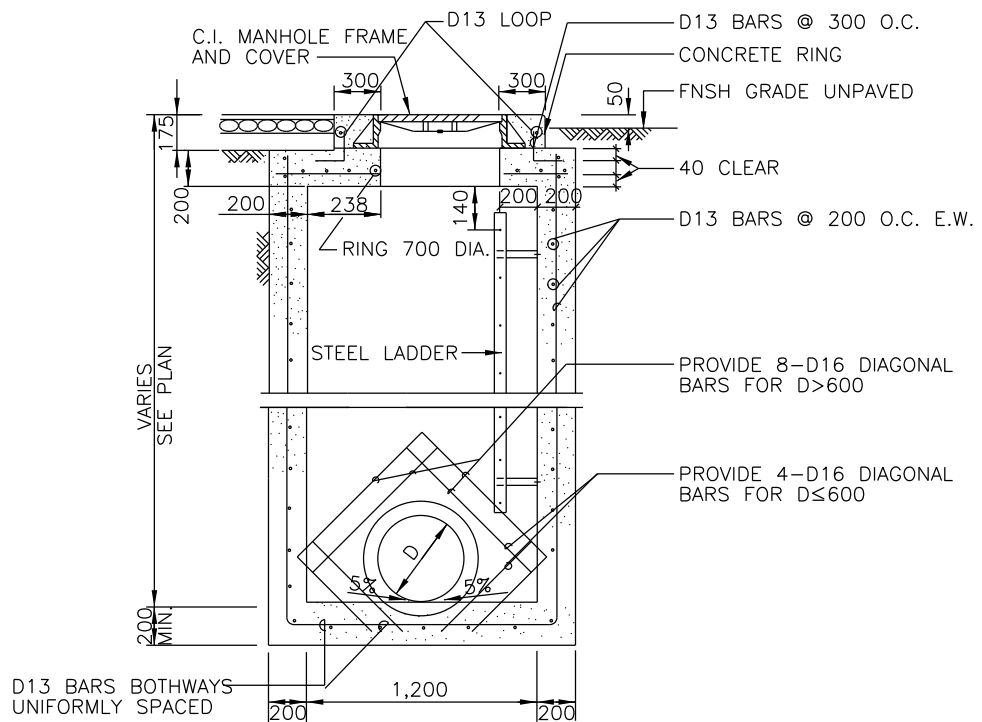


(A) PLAN



(C) TOP SLAB REINFORCING

NOTE:
USE 775mm MIN. MANHOLE OPENING
FOR MANHOLE W/LADDER.



(B) SECTION

CONCRETE (DRAIN) MANHOLE
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

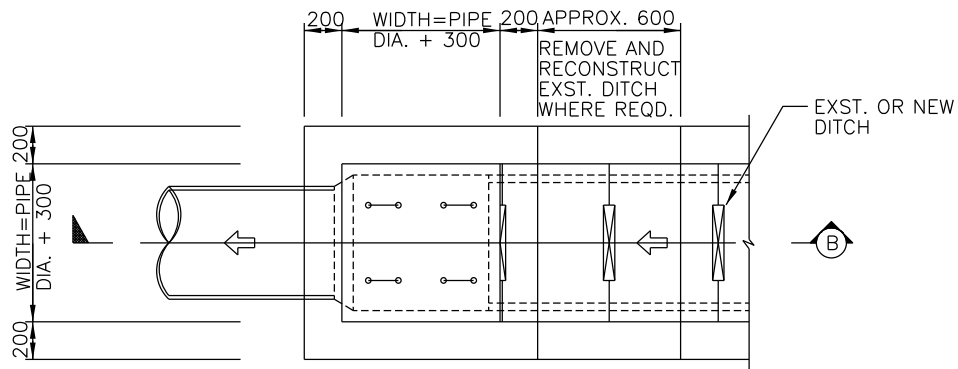
CONCRETE (DRAIN) MANHOLE

OMA SPEC

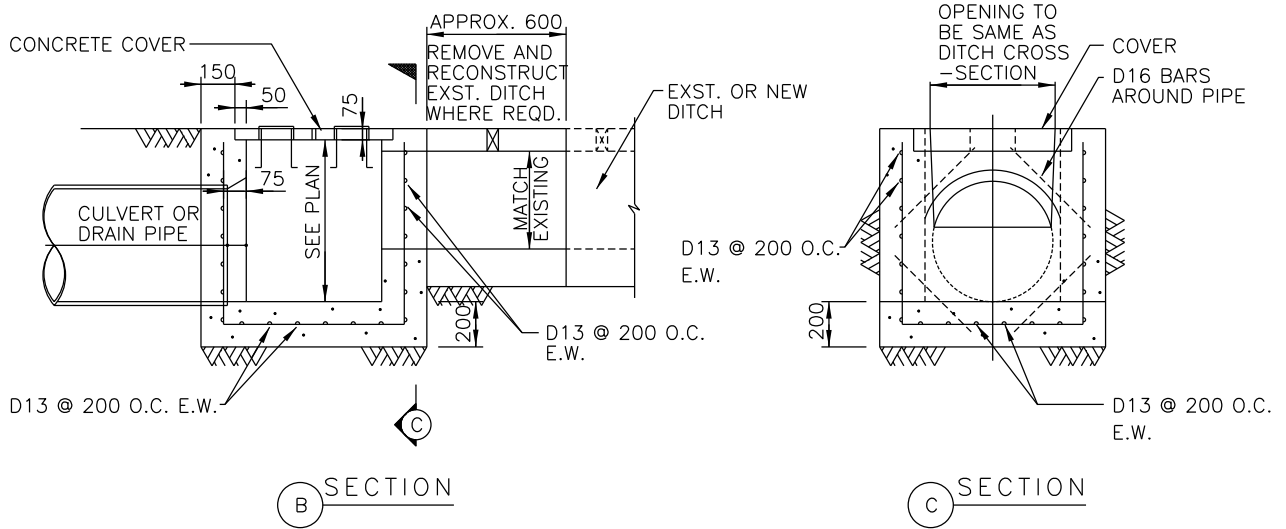
334000

DWG NO.

C - 1011



(A) PLAN



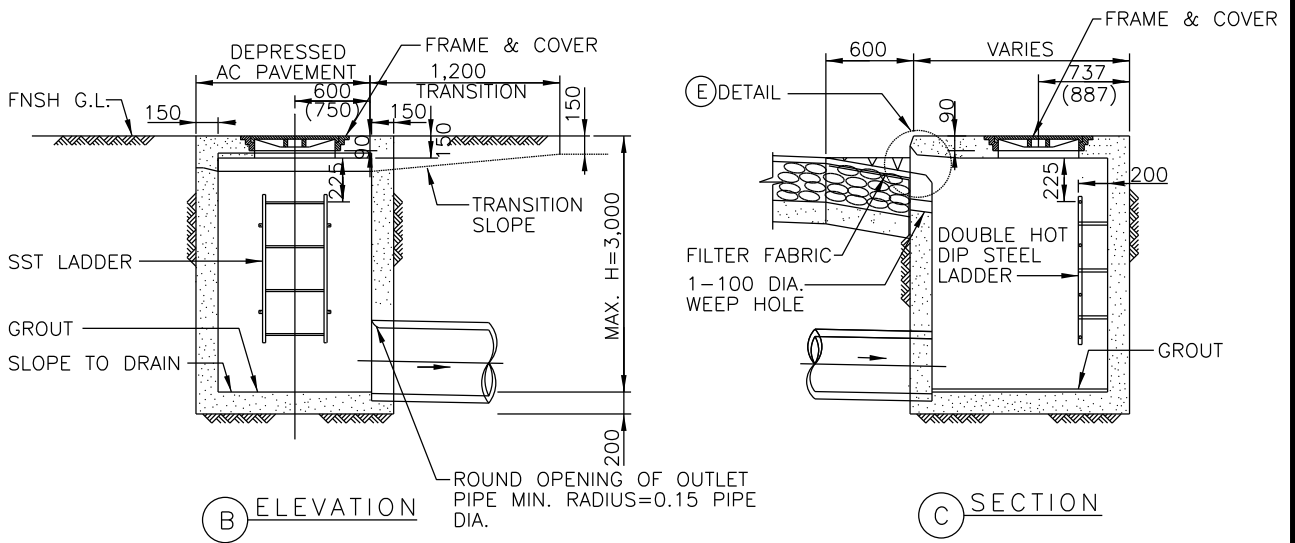
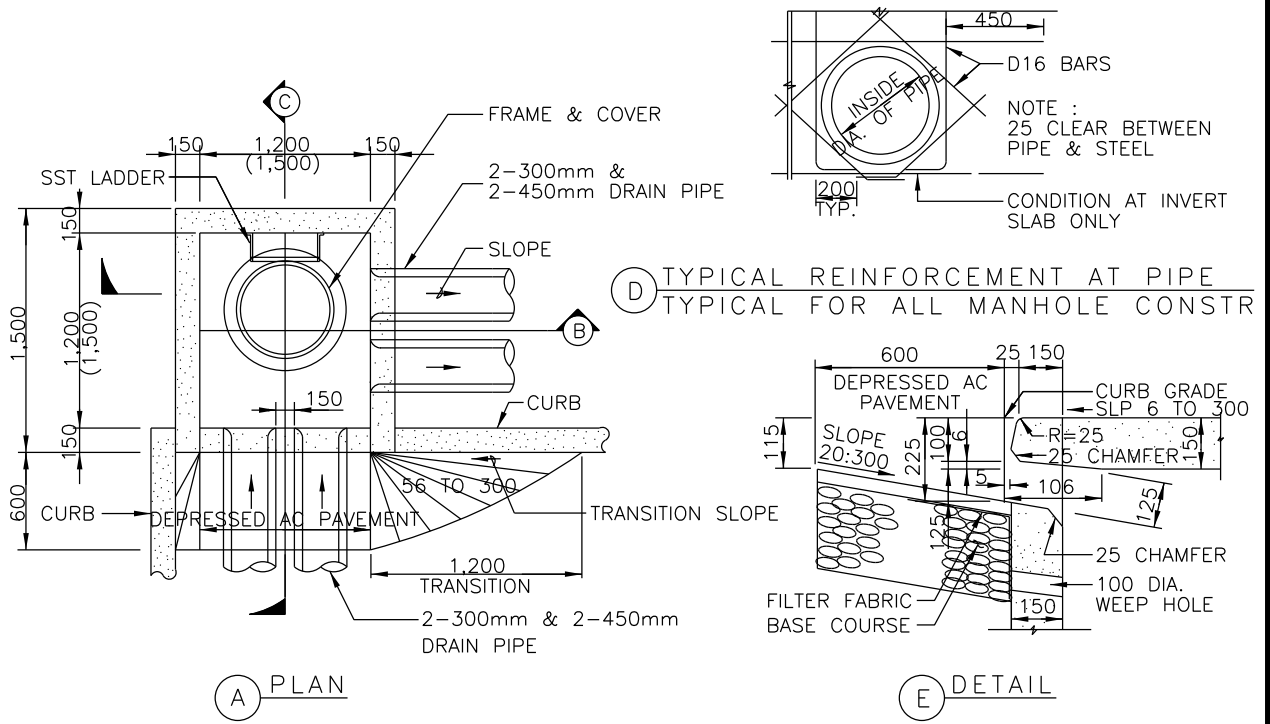
(B) SECTION

(C) SECTION

JUNCTION BOX
NOT TO SCALE

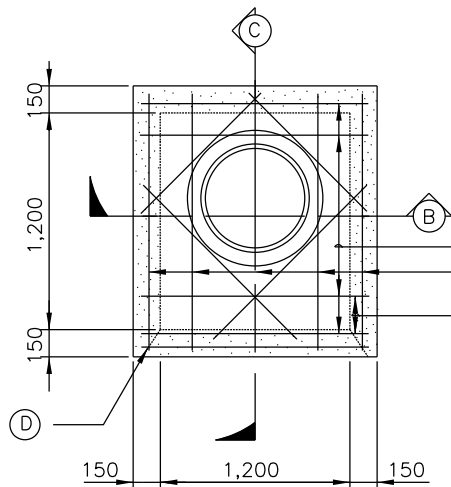
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	JUNCTION BOX	334000	C - 1012

REV DATE: NOV 2015



CURB INLET
 NOT TO SCALE

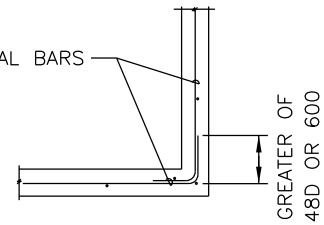
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CURB INLET	334000	C - 1013



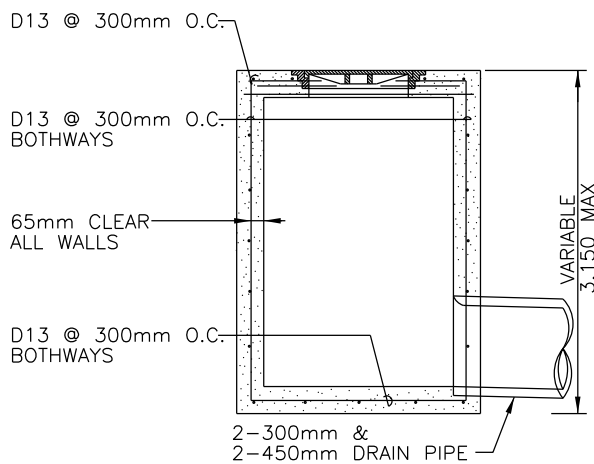
(A) PLAN

D13 @ 300mm O.C. BOTTOM
 D13 @ 300mm O.C. TOP
 2 D13 @ 150mm O.C. TOP

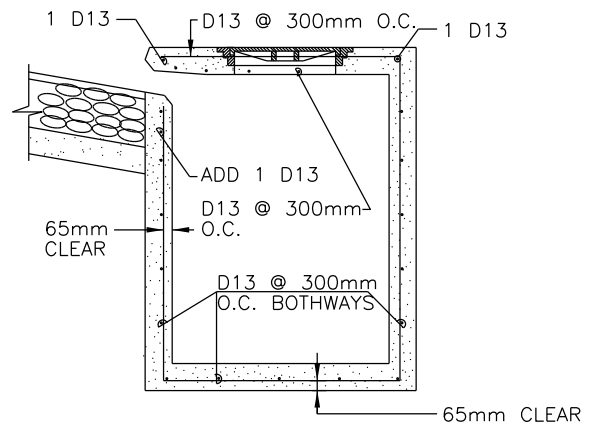
HORIZONTAL BARS



(D) TYPICAL CORNER REINFORCEMENT LAPPING
 TYPICAL FOR ALL MANHOLE CONSTRUCTION



(B) SECTION



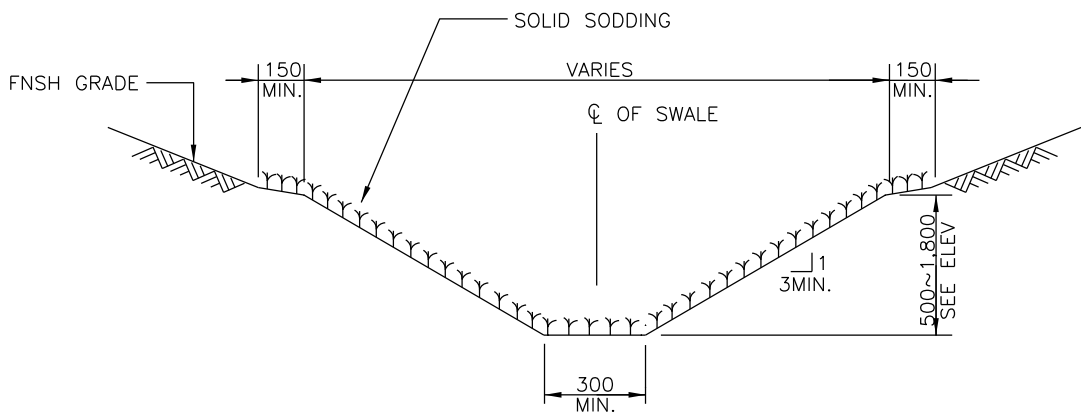
(C) SECTION

NOTES:

1. LADDERS SHALL BE PROVIDED FOR ALL CURB INLET STRUCTURES WITH DEPTHS GREATER THAN 1,200mm.
2. LADDERS SHALL NOT BE INSTALLED OVER A PIPE CONNECTION AND THE LOWEST RUNG SHALL BE NOT MORE THAN 600mm ABOVE THE INVERT.
3. SPLICED REINFORCING BARS SHALL BE LAPPED AT LEAST 30D.
4. CURB INLET TOP AND DRAIN INLET OPENINGS ARE TO MATCH CURB LINES, SIDEWALK AND OTHER PAVEMENT SLOPES.
5. USE 775mm MIN. CURB INLET OPENING FOR CURB INLET W/LADDER.

CURB INLET REINFORCING
 NOT TO SCALE

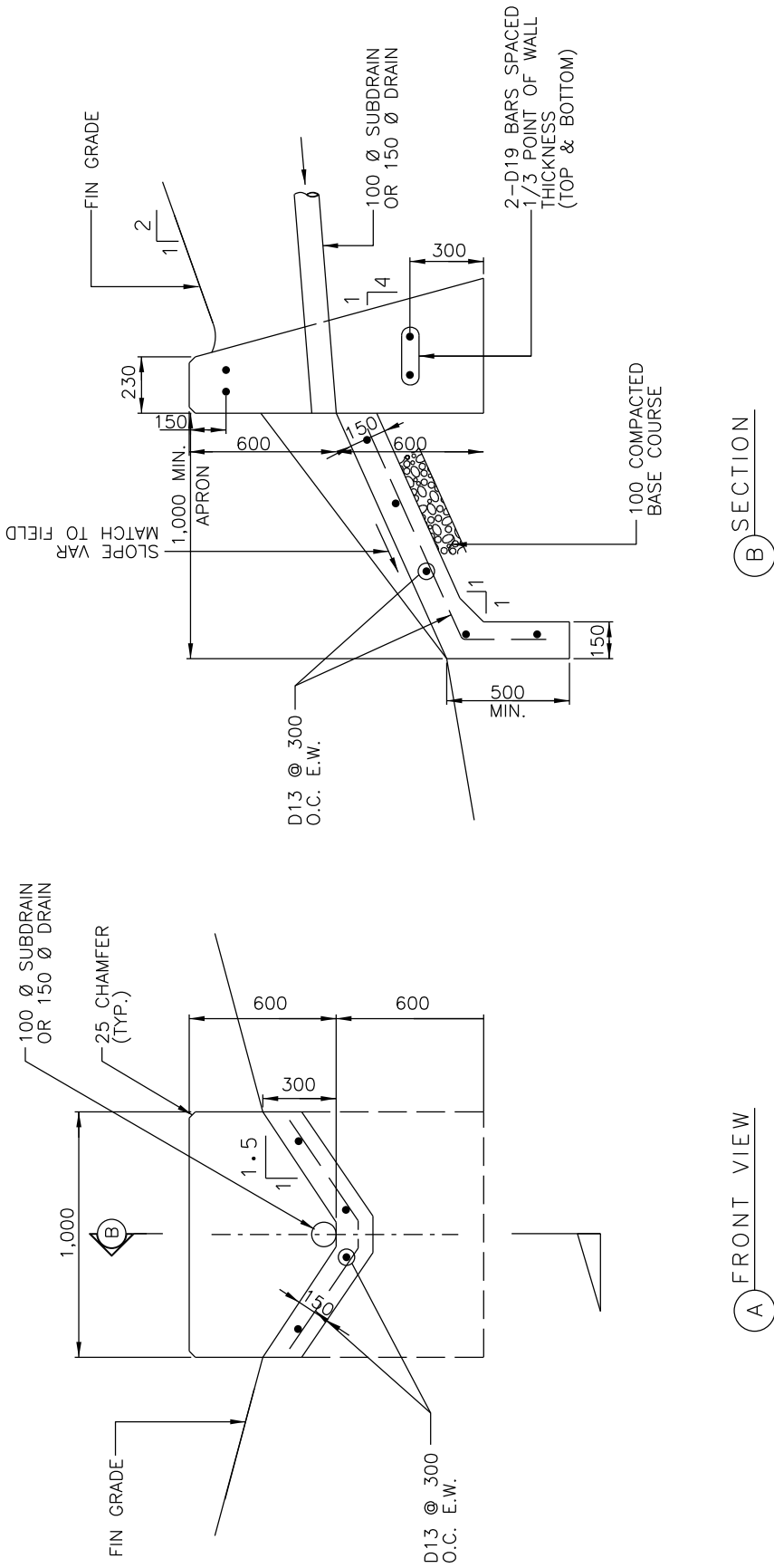
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CURB INLET REINFORCING	334000	C - 1014



NOTE:
SODDING SHALL BE PROVIDED FOR ALL EXPOSED SURFACES.

GRASS SWALE
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	GRASS SWALE	334000	C - 1015



CONC. HEADWALL W/APRON
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

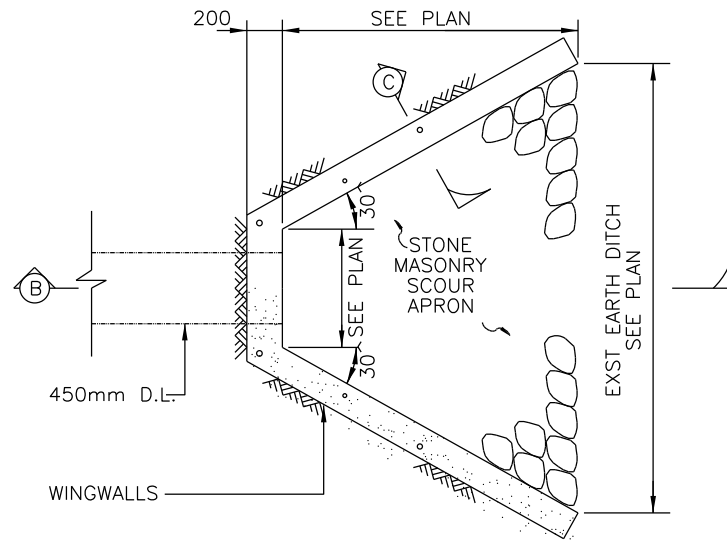
TITLE CONC. HEADWALL W/APRON

OMA SPEC

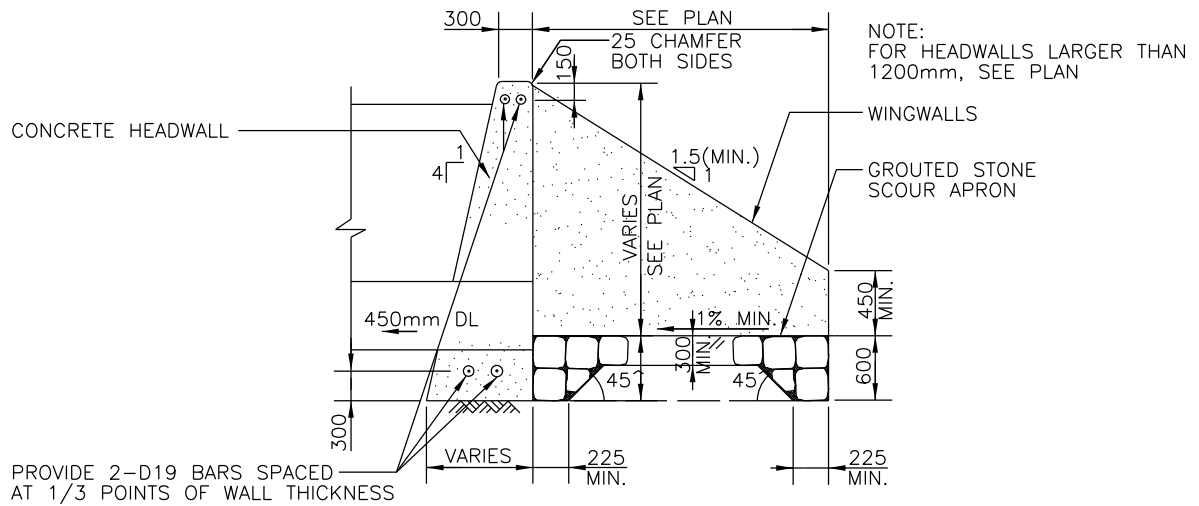
334000

DWG NO.

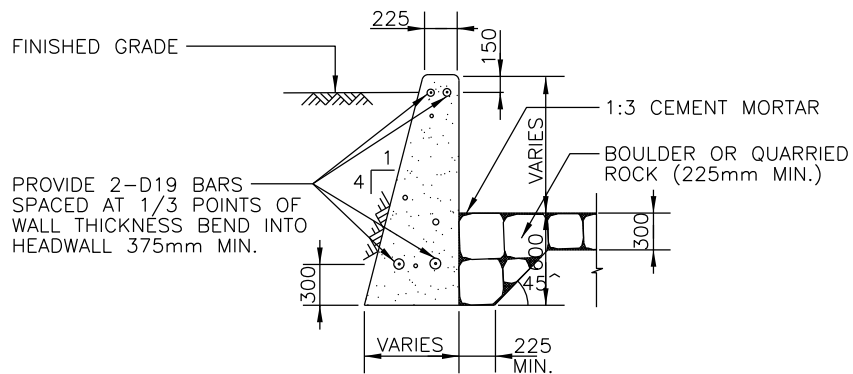
C - 1016



(A) PLAN



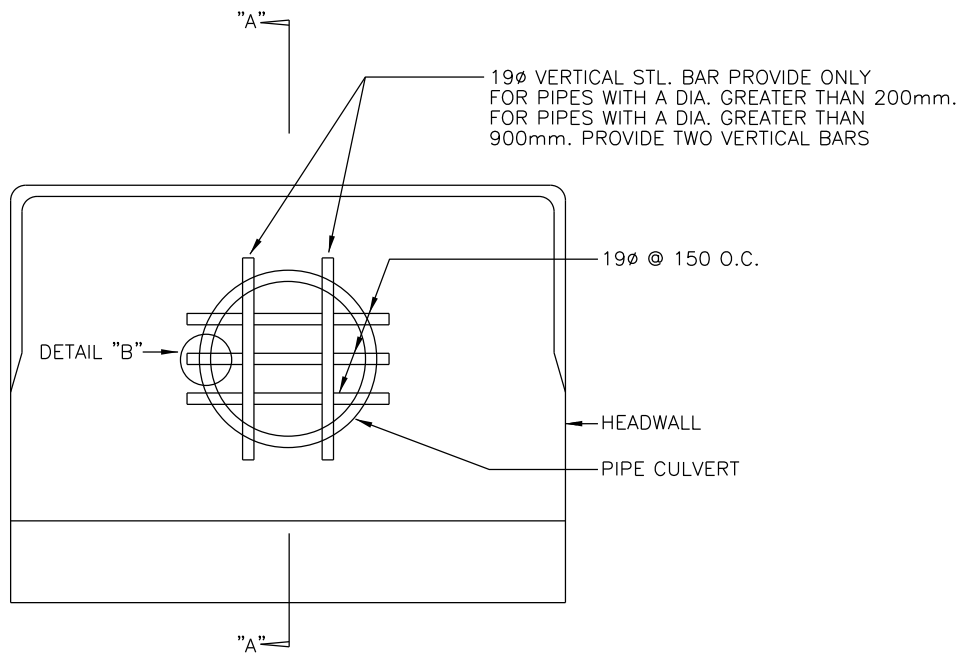
(B) SECTION



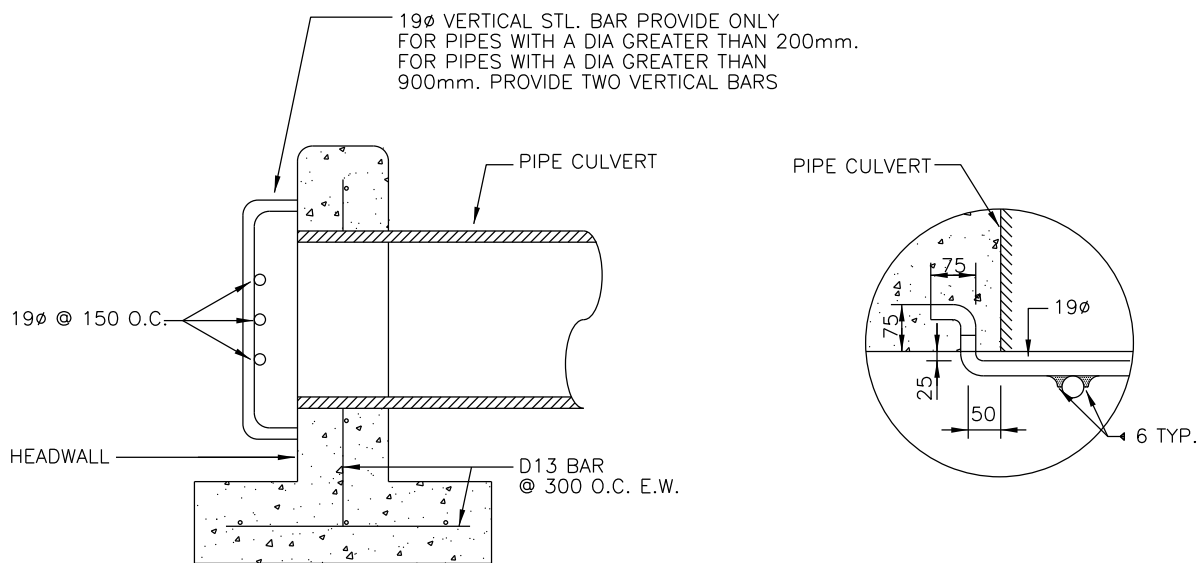
(C) WINGWALLS - SECTION

CONCRETE HEADWALL W/WINGWALL - 400 TO 1,200mm
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CONC. HEADWALL W/WINGWALL - 400 TO 1200MM	334000	C - 1017



FRONT ELEVATION

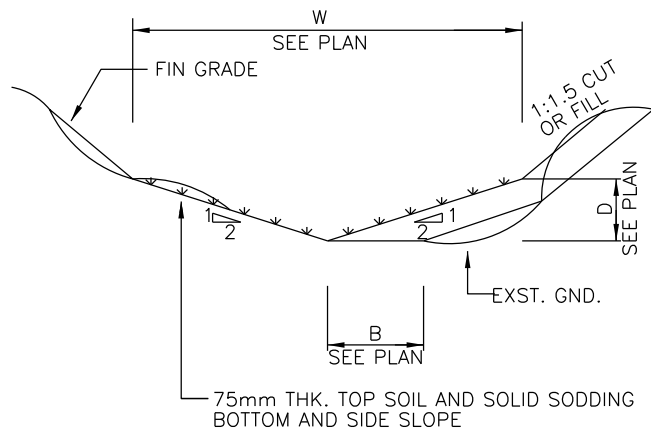


SECTION A-A

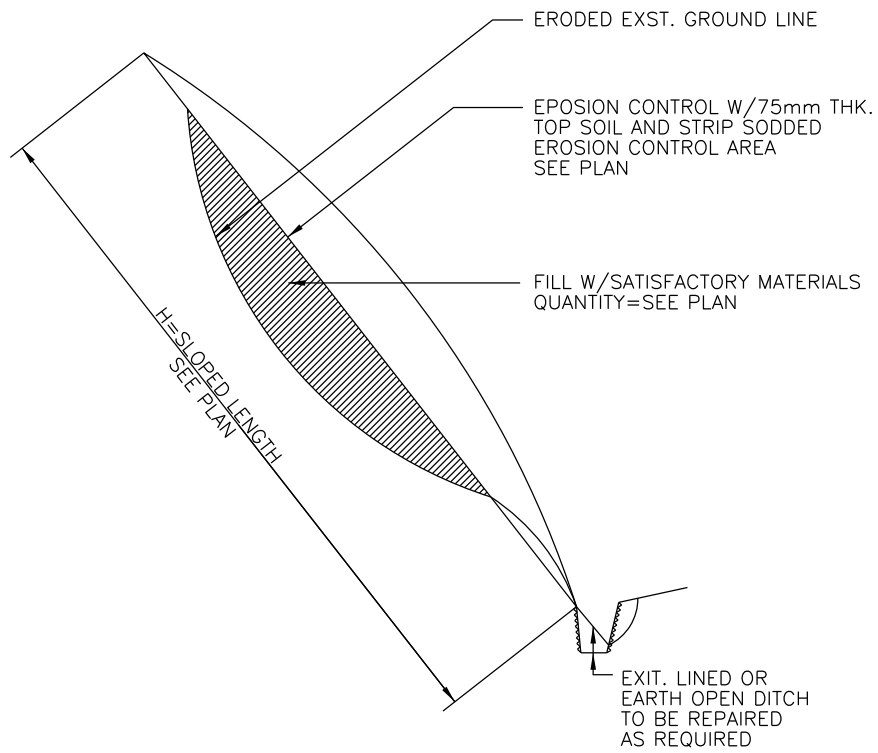
DETAIL "B"

MAN PROOFED PIPE CULVERTS
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	MAN PROOFING	334000	C - 1018



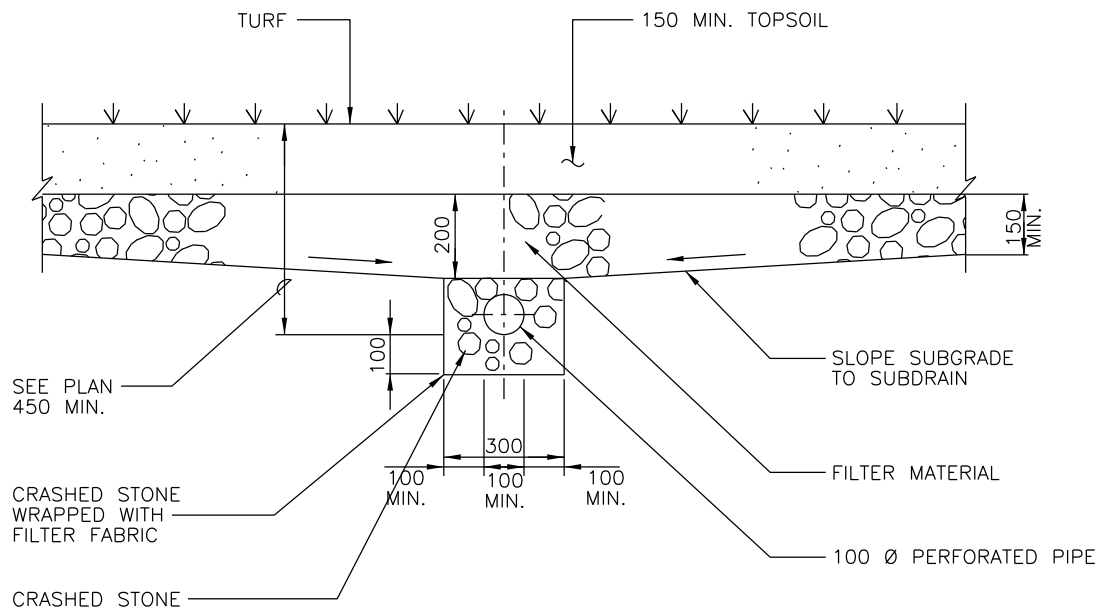
EARTH OPEN DITCH
NOT TO SCALE



EROSION CONTROL
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	REPAIR ERODED SLOPE & EARTH DITCH	334000	C - 1019

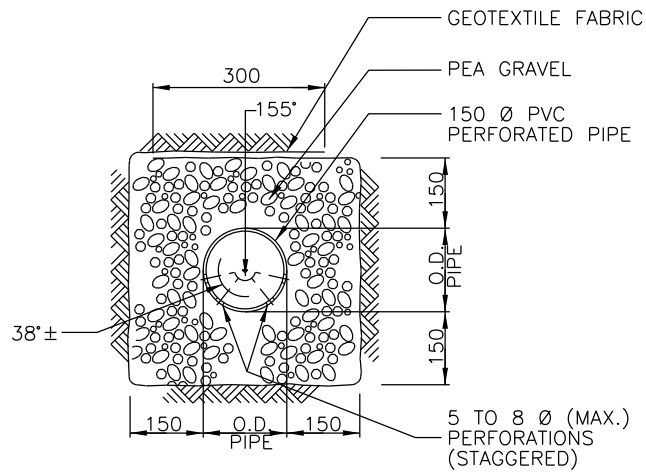
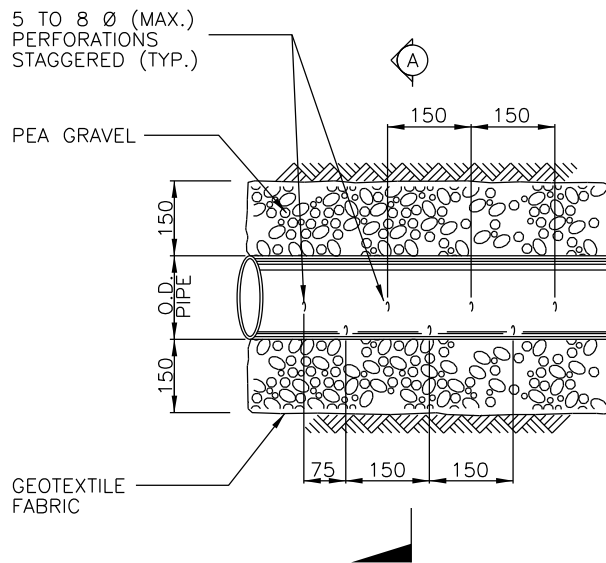
REV DATE: NOV 2015



TYP. TURF & SUBDRAIN SECTION
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL TURF & SUBDRAIN SECTION	334616	C - 1020

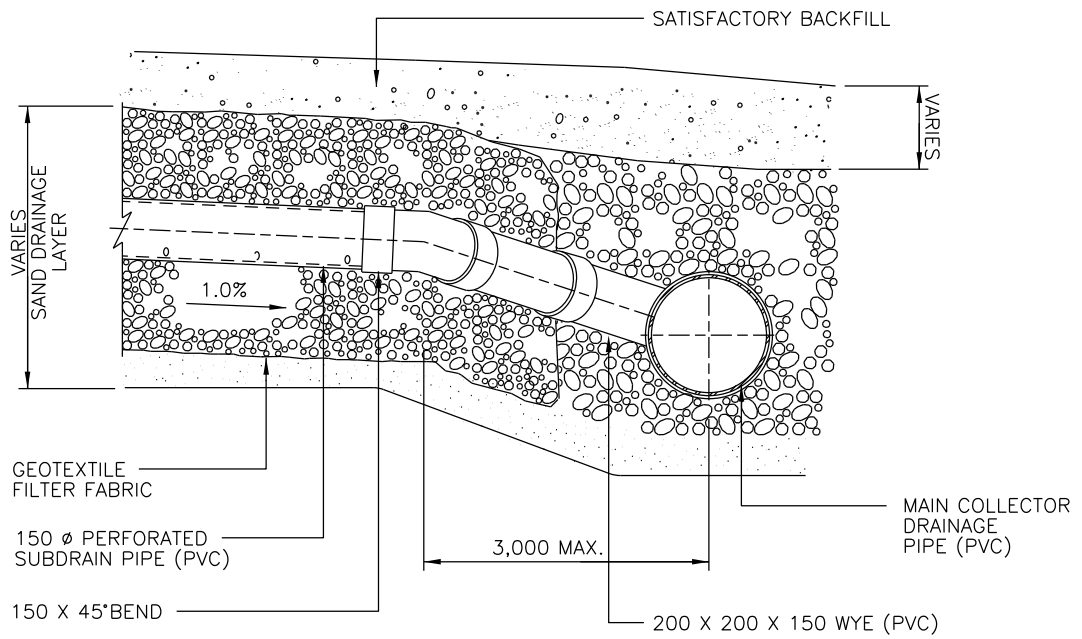
REV DATE: NOV 2015



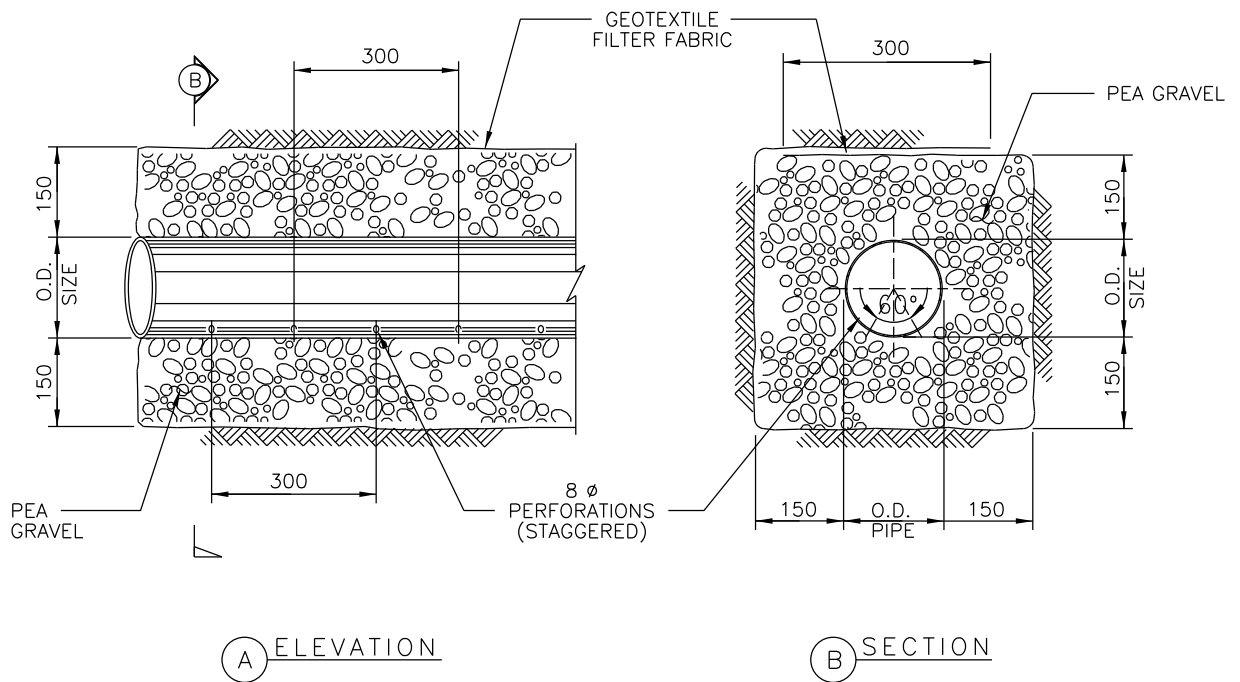
(A) SECTION

PERFORATED DRAIN PIPE
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PERFORATED DRAIN PIPE	334616	C - 1021



SUBDRAIN LATERAL PIPE CONNECTION
NOT TO SCALE



PERFORATED SUBDRAINAGE PIPE
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

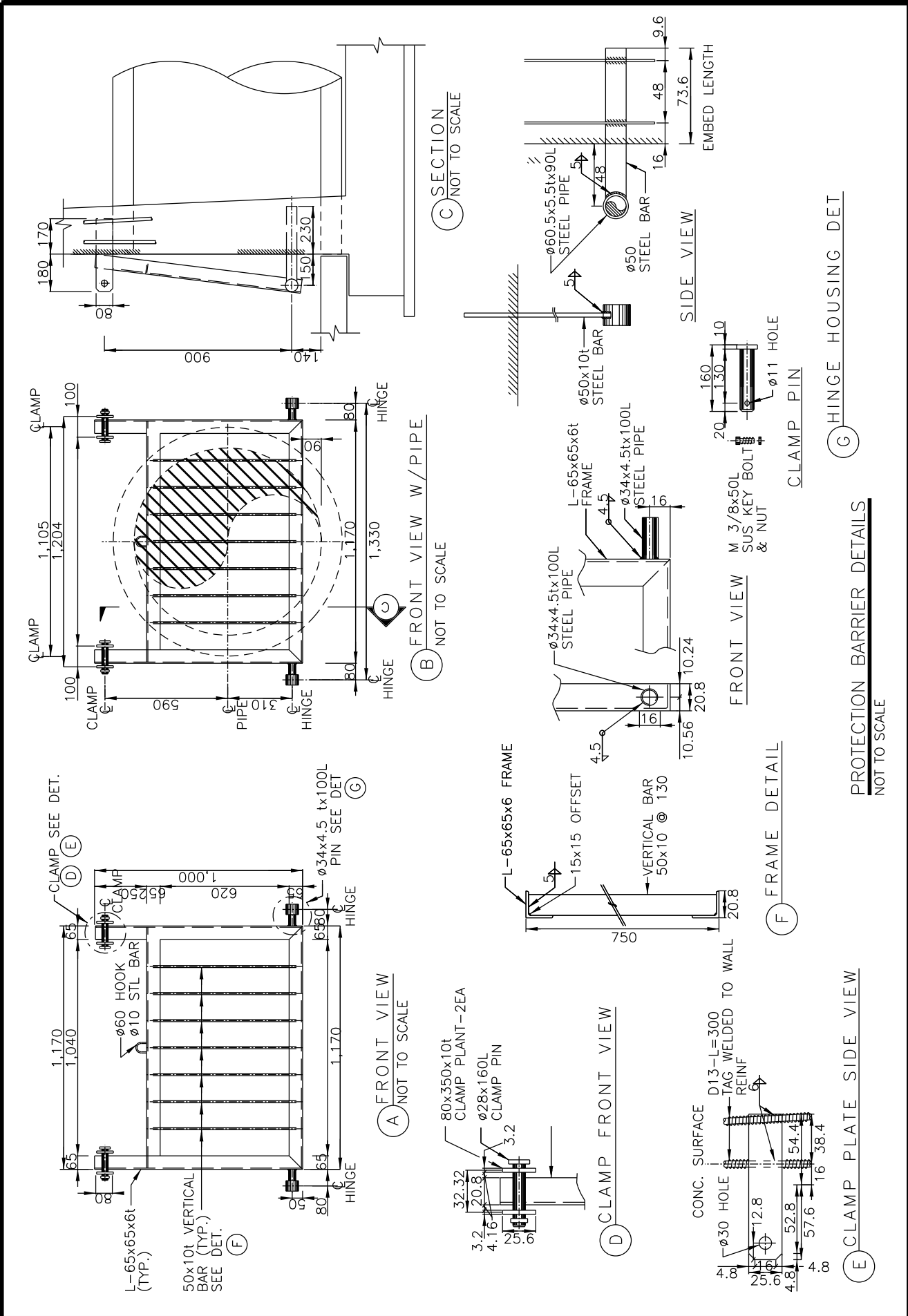
DWG NO.

TITLE

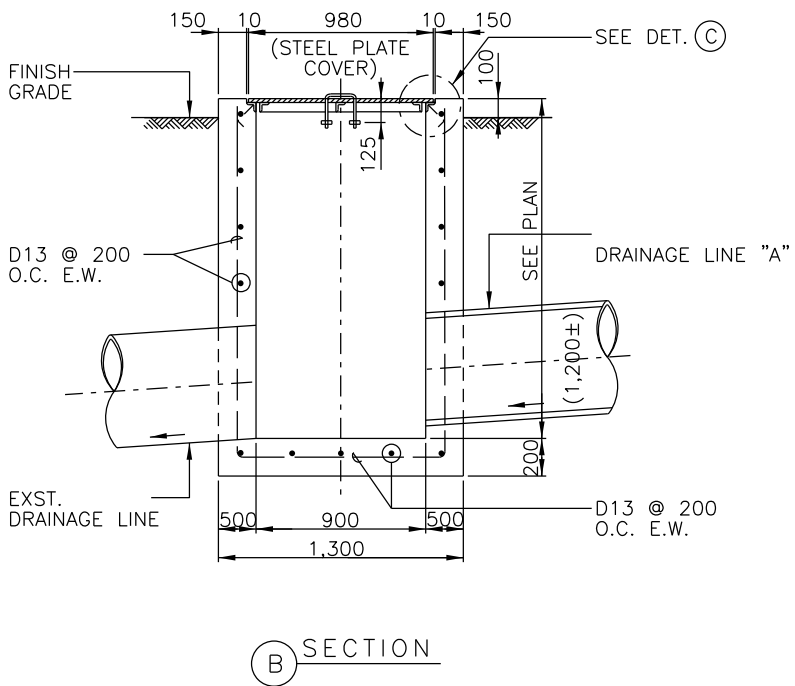
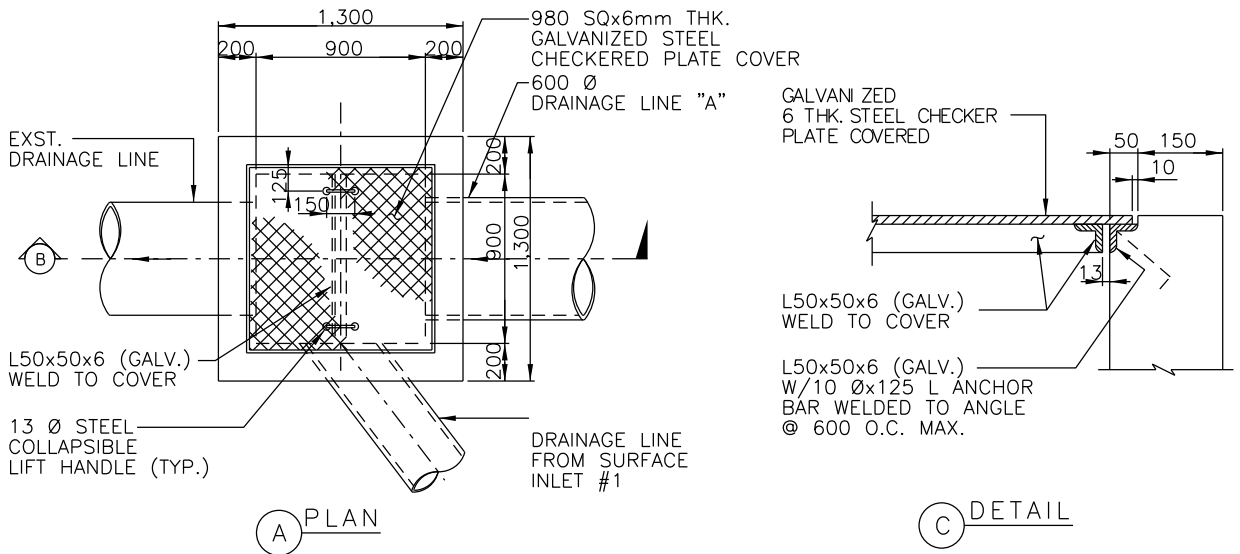
PERFORATED SUBDRAINAGE PIPE

334616

C - 1022



	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PROTECTION BARRIER DETAILS	334000	C - 1023



CATCH BASIN
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CATCH BASIN	334000	C - 1024



O&MA STANDARD DETAILS, KOREA

OMA SPEC

DWG NO.

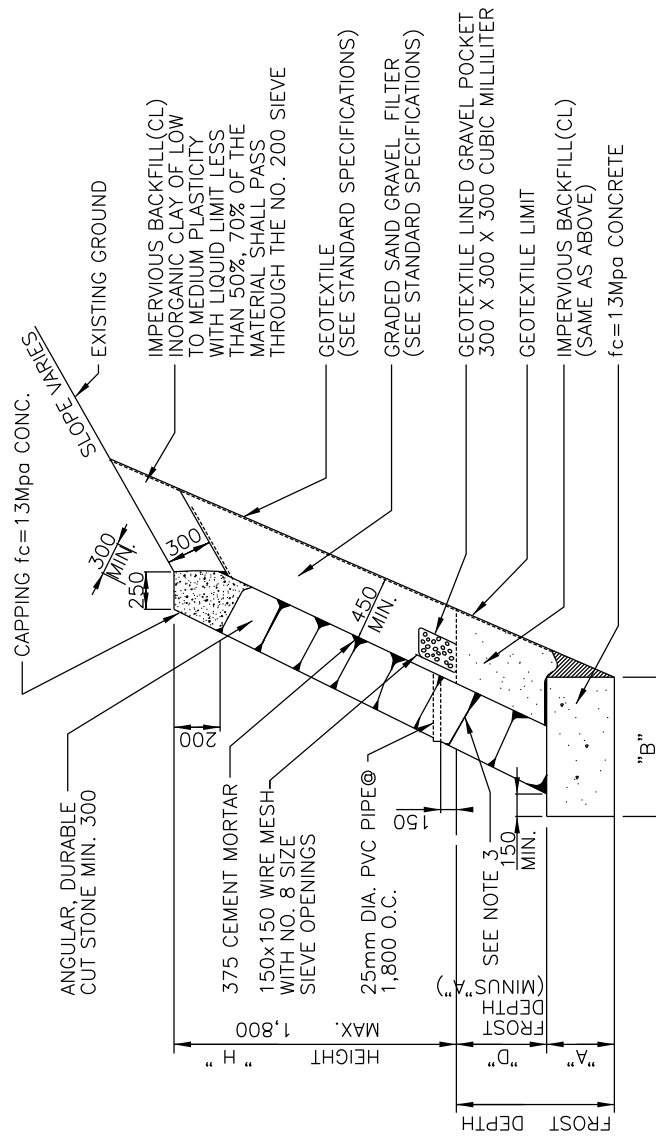
TITLE

STONE MASONRY PROTECTION

N/A

C - 1101

REV DATE: NOV 2015



DIMENSION TABLE

HEIGHT "H"	"A"	"B"
1,200 OR LESS	300	750
1,200 OR 1,800	450	1,050

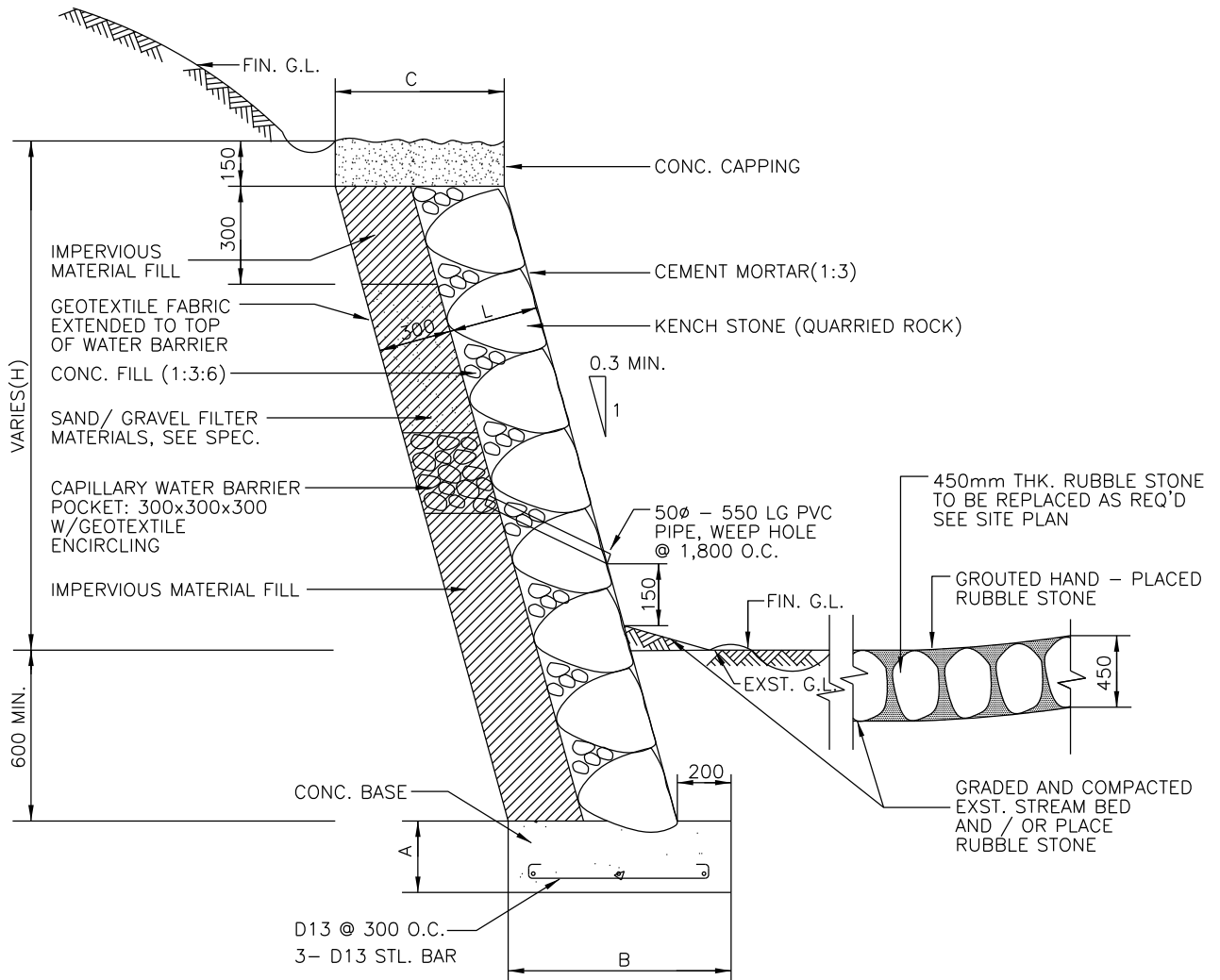
NOTE :

1. STONE MASONRY SLOPE PROTECTION SHALL ONLY BE USED IN STABLE CUT SLOPES
2. STONE MASONRY SLOPE PROTECTION SHALL NOT EXCEED 1.8m IN HEIGHT
3. OMIT GROUT FROM VERTICAL JOINTS IN FIRST COURSE
4. MAXIMUM FACE SLOPE SHALL BE 1/2 HORIZONTAL TO 1.0 VERTICAL

STONE MASONRY SLOPE PROTECTION (FOR STABLE CUT SLOPES ONLY)

NOT TO SCALE

T A B L E						
WALL HEIGHT	KENCH STONE (QUARRIED ROCK)			FOUNDATION		CAPPING
H	L	AVG, SURFACE	AVQ, WEIGHT	A	B	C
1,800 OR LESS	350	250 SQ	41 kgf	300	850	650

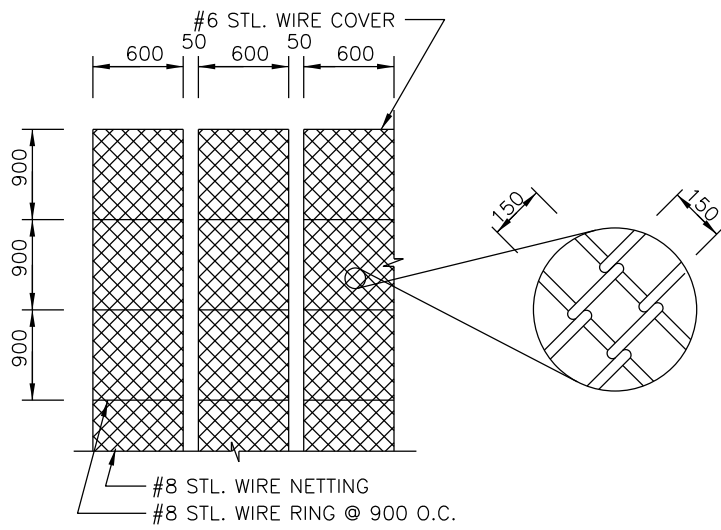


NOTE :
 1, USE THIS TO REPAIR EXISTING STONE WALL ONLY
 2, DO NOT USE THIS DETAIL FOR NEW RETAINING WALL

KENCH STONE WALL & RUBBLE STONE BED, DEF,
 NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	STONE WALL	N/A	C - 1102

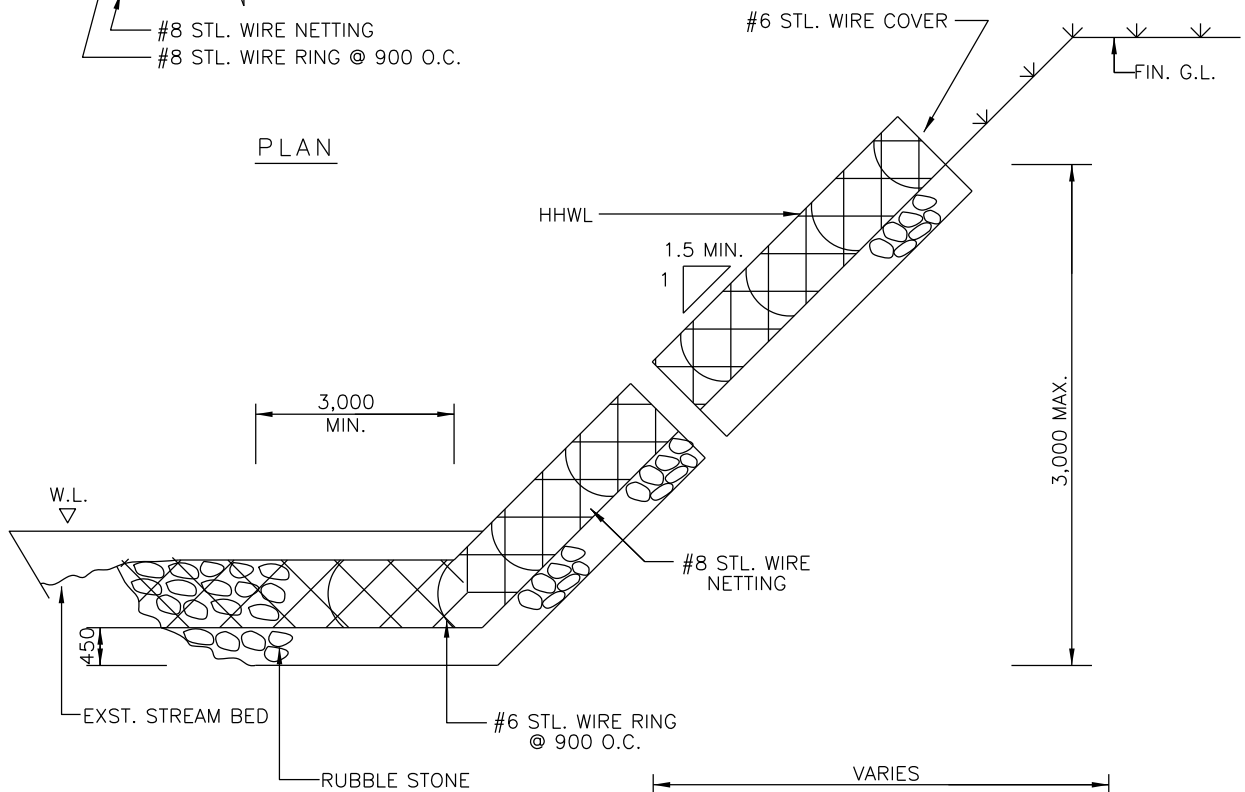
REV DATE: NOV 2015



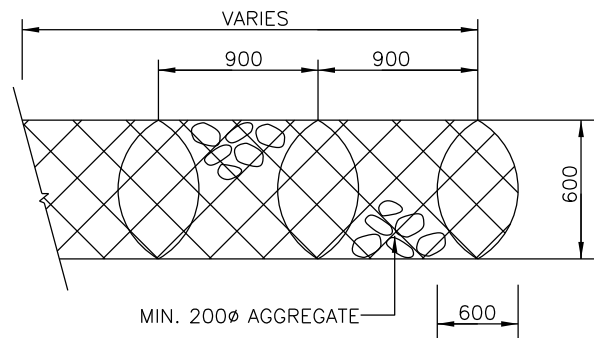
PLAN

NOTES

- 1, FILL GABION WITH AGGREGATE, MINIMUM (200mm<DIA.<300mm) AGGREGATE SIZE OF 200 DIAMETER AND SECURE GABION BY TWISTING EVERY MESH AS RECOMMENDED BY MANUFACTURER
- 2, GABION COVER WILL BE PROVIDED TO END AND, BEGINNING POINT
- 3, CONSTRUCT CIRCLE GABION WITH A CONFORMING #8 GALVANIZED STEEL WIRE MESH (150 SQ) BY DAE SUNG WIRE NETTING CO, LTD OR APPROVED EQUAL



TYPICAL SECTION



CIRCLE GABION DETAIL
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CIRCLE GABION DETAIL	N/A	C - 1103



O&MA STANDARD DETAILS, KOREA

TITLE

RETAINING WALL - 1, CONCRETE

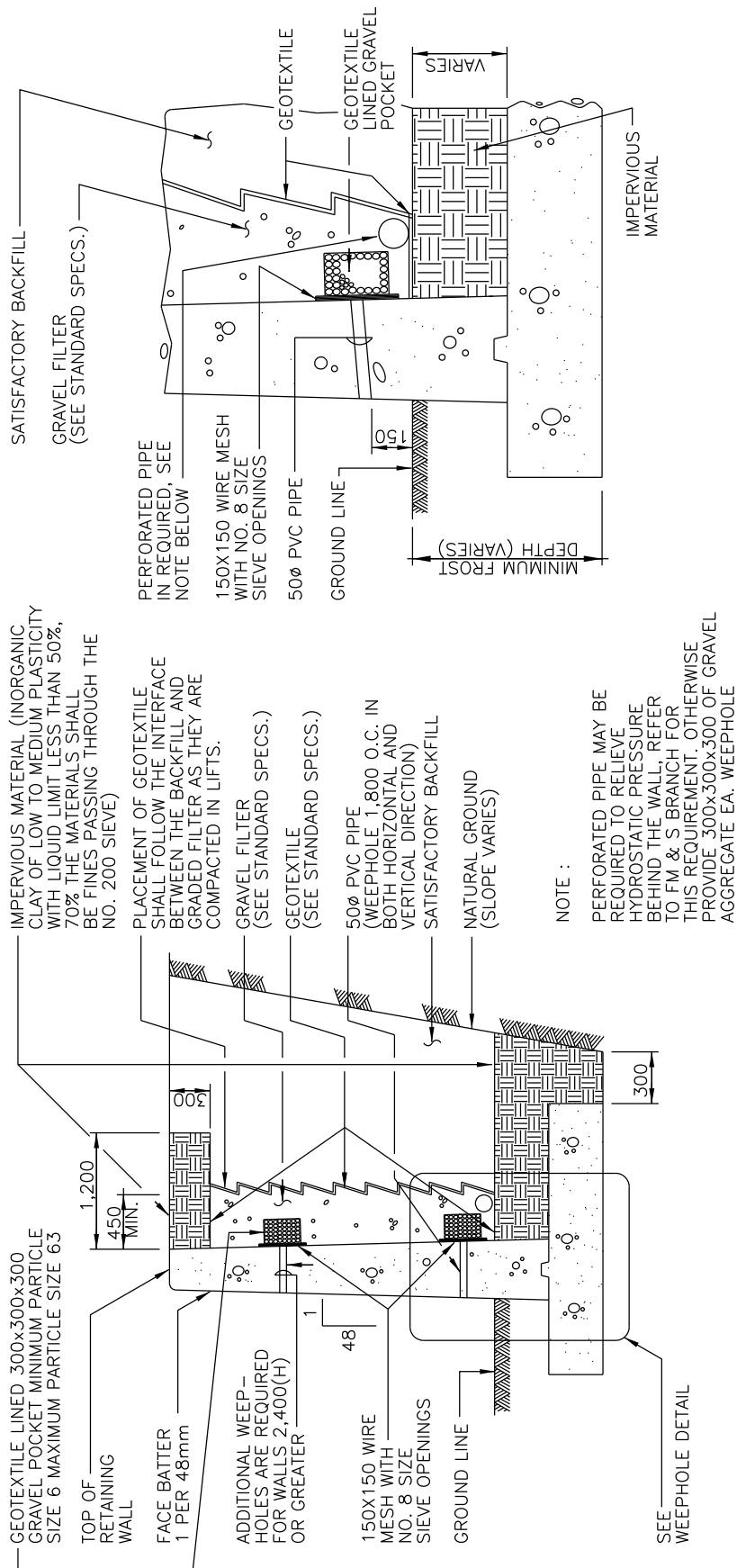
OMA SPEC

N/A

DWG NO.

C - 1104

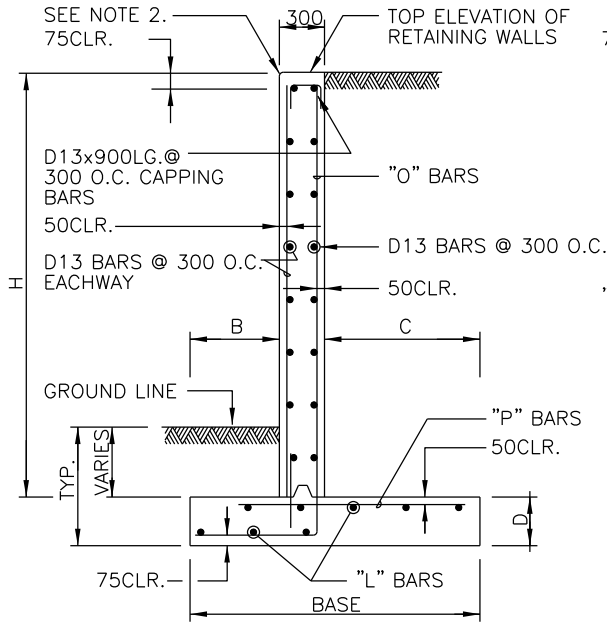
REV DATE: NOV 2015



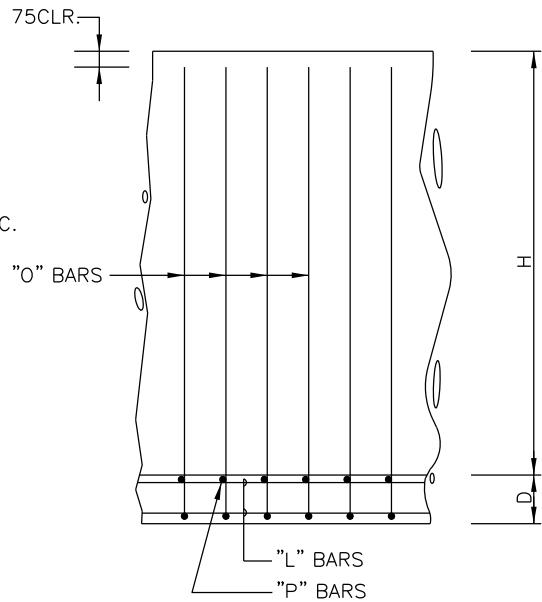
FILTER MATERIAL

WEEPHOLE DETAIL

FILTER MATERIAL LIMITS

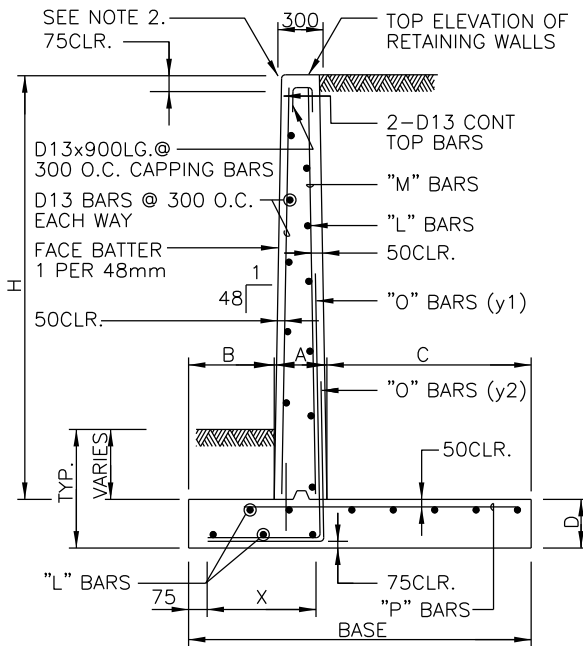


SECTION

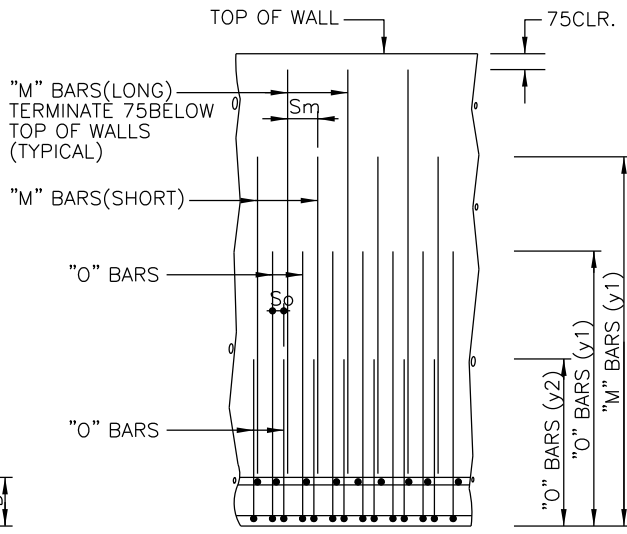


ELEVATION

WALL HEIGHT $\leq 2,400$



SECTION

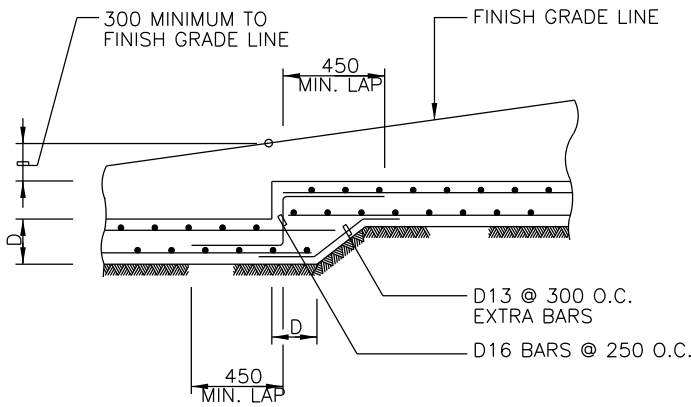


ALTERNATE LONG (y1) AND SHORT (y2) "O" BARS, FOR SPACINGS "So" AND "Sm" SEE RETAINING WALL SCHEDULE

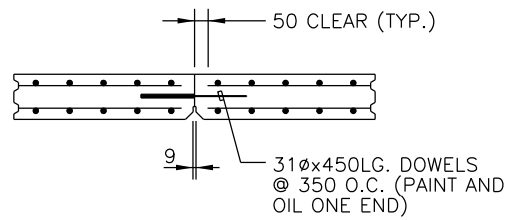
ELEVATION

WALL HEIGHT $> 2,400$

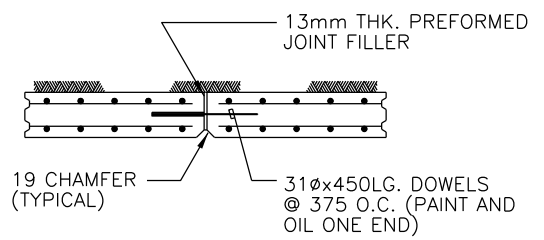
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	RETAINING WALL - 2, CONCRETE	N/A	C - 1105



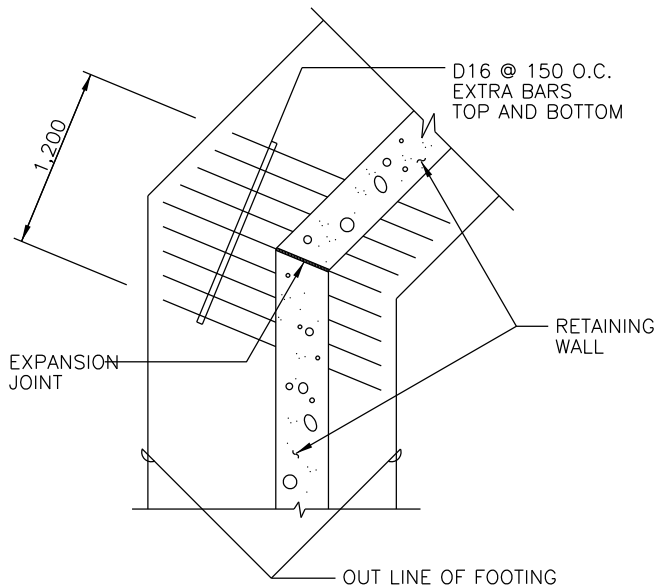
STEPPED FOOTING DETAIL



TYP. CONTRACTION JOINT
(MAX. SPACING 12m)



EXPANSION JOINT
(MAX. SPACING 30m)



AT WALL 45° BEND DETAIL

DESIGN CRITERIA

1. CONCRETE :
COMPRESSIVE STRENGTH OF CONCRETE f_c' @ 28 DAYS
SHALL BE 21Mpa
2. REINFORCING STEEL :
REINFORCING STEEL SHALL CONFORM TO ASTM A-615,
GRADE 40, $f_y = 300\text{Mpa}$
3. SOIL PARAMETERS USED :
ANGLE OF INTERNAL FRICTION $\phi = 30$
SOIL DENSITY $r = 2.0 \text{ ton/M}^3$
ANGLE OF WALL FRICTION $f = 17^\circ$
BACKFIELD SLOPE ANGLE $i = 0$

NOTES

1. RETAINING WALL FOOTINGS SHALL BEAR OR CAST AGAINST UNDISTURBED SOIL. OVER-EXCAVATION SHALL BE FILLED WITH 14 Mpa CONCRETE PRIOR TO FOOTING PLACEMENT.
2. RETAINING WALL EXPOSED EDGES SHALL BE CHAMFERED A MINIMUM OF 3/4 mm.



O&MA STANDARD DETAILS, KOREA

TITLE RETAINING WALL - 3, CONCRETE

OMA SPEC

N/A

DWG NO.

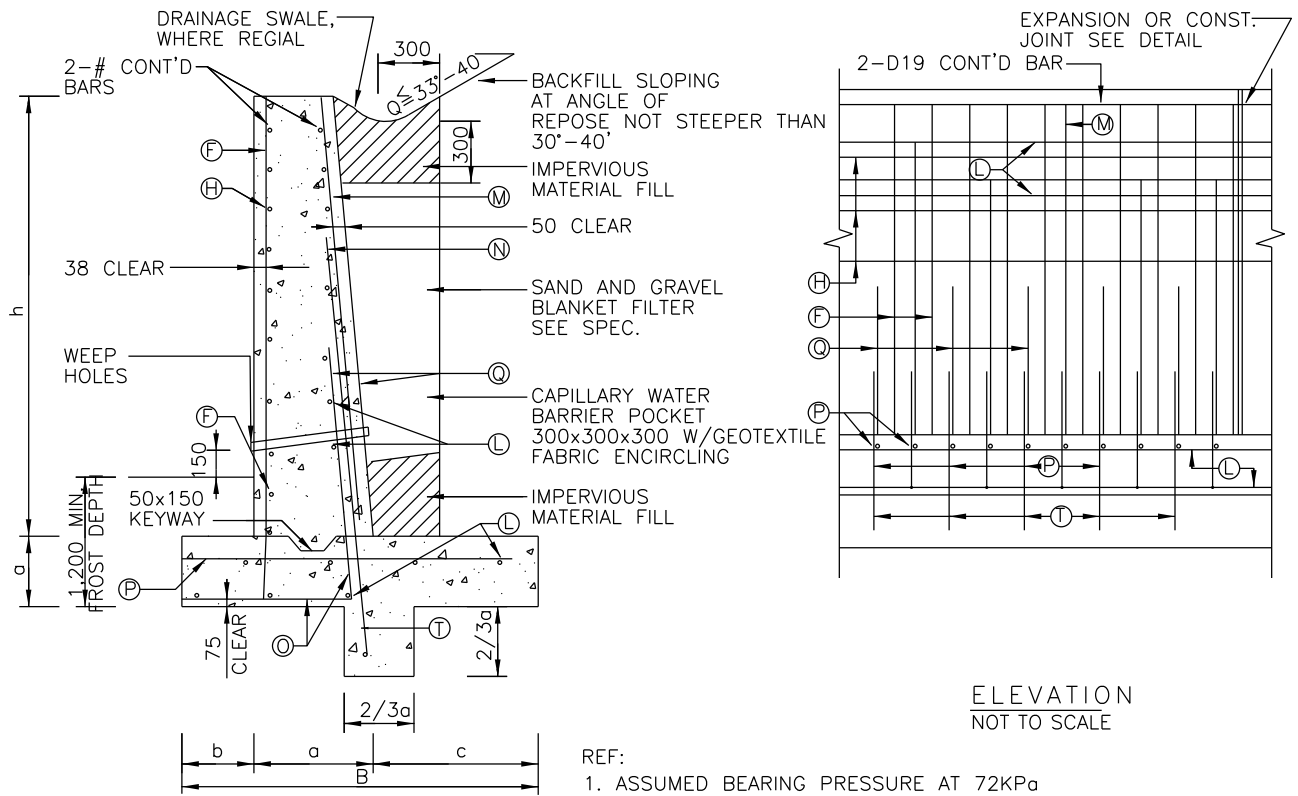
C - 1106

RETAINING WALL SCHEDULE												
CONCRETE DIMENSIONS					STRUCTURAL REINFORCEMENT							
MARK NO. OR H (m)	BASE (mm)	B (mm)	A OR D (mm)	C (mm)	"O" BARS				"M" BARS(*)		"P" BARS	"L" BARS
					SIZE & SPACING (So)	X (mm)	y1 (mm)	y2 (mm)	SIZE & SPACING (Sm)	y1 (mm)	SIZE, LENGTH & SPACING	SIZE, LENGTH & SPACING
ALLOWABLE SOIL BEARING PRESSURE $\leq 72\text{KPa}$												
1.5m	900	300	300	300	D13 @ 275	450	1,125	-	-	-	D13x750@275	D13 @ 300
1.8m	900	300	300	300	D13 @ 275	450	1,425	-	-	-	D13x750@275	D13 @ 300
2.1m	1,200	450	300	450	D13 @ 275	600	1,725	-	-	-	D13x1,050@275	D13 @ 300
2.4m	1,425	575	300	600	D13 @ 275	675	2,075	-	-	-	D13x1,275@275	D13 @ 300
2.7m	1,650	675	400	575	D16 @ 325	925	2,225	-	-	-	D16x1,575@325	D16 @ 325
3.0m	1,875	750	400	725	D16 @ 325	1,000	1,300	775	D16 @ 350	1,825	D16x1,725@300	D16 @ 300
3.3m	2,075	975	413	638	D16 @ 600	1,238	1,450	875	D16 @ 325	2,075	D16x1,650@300	D16 @ 300
3.6m	2,400	975	425	1,000	D16 @ 225	1,250	1,575	950	D16 @ 300	2,225	D16x2,075@300	D16 @ 300
3.9m	2,625	1,125	438	1,063	D19 @ 263	1,425	1,725	1,050	D16 @ 300	2,225	D16x2,100@275	D16 @ 300
4.2m	NOT RECOMMENDED											
ALLOWABLE SOIL BEARING PRESSURE $< 120\text{KPa}$												
5	900	300	300	300	D13 @ 275	450	1,125	-	-	-	D13x750@275	D13 @ 300
6	900	300	300	300	D13 @ 275	450	1,425	-	-	-	D13x750@275	D13 @ 300
7	1,050	300	300	450	D13 @ 275	450	1,725	-	-	-	D13x900@275	D13 @ 275
8	1,200	300	300	600	D13 @ 275	450	2,075	-	-	-	D13x1,050@275	D13 @ 275
9	1,350	300	400	650	D16 @ 325	550	2,225	-	-	-	D16x1,200@325	D16 @ 325
10	1,650	450	400	500	D16 @ 325	700	1,300	500	D16 @ 350	1,825	D16x1,500@325	D16 @ 325
11	1,800	600	413	788	D16 @ 300	850	1,450	825	D16 @ 300	2,075	D16x1,650@300	D16 @ 300
12	2,250	675	425	1,150	D16 @ 225	950	1,600	950	D16 @ 325	2,225	D16x2,175@300	D16 @ 300
13	2,400	825	438	1,138	D19 @ 263	1,113	1,725	1,025	D16 @ 325	2,225	D16x2,175@275	D16 @ 300
14	2,700	900	450	1,350	D19 @ 213	1,200	1,875	1,125	D16 @ 275	2,625	D16x2,400@275	D16 @ 300
ALLOWABLE SOIL BEARING PRESSURE $> 120\text{KPa}$												
5	750	300	300	150	D13 @ 275	450	1,125	-	-	-	D13x600@275	D13 @ 300
6	900	300	300	300	D13 @ 275	450	1,425	-	-	-	D13x750@275	D13 @ 300
7	1,050	300	300	450	D13 @ 275	450	900	-	-	-	D13x900@275	D13 @ 275
8	1,200	300	300	600	D13 @ 275	450	1,050	-	-	-	D13x1,050@275	D13 @ 275
9	1,350	300	400	650	D16 @ 325	550	1,150	-	-	-	D16x1,200@325	D16 @ 325
10	1,500	300	400	500	D16 @ 325	550	1,300	500	D16 @ 350	1,825	D16x1,350@325	D16 @ 325
11	1,650	450	413	788	D16 @ 300	713	1,450	900	D16 @ 325	2,075	D16x1,500@300	D16 @ 300
12	1,725	600	425	700	D16 @ 225	900	1,600	975	D16 @ 325	2,225	D16x1,575@300	D16 @ 300
13	1,875	600	438	838	D19 @ 263	900	1,750	1,050	D16 @ 300	2,225	D16x1,725@275	D16 @ 300
14	2,100	600	450	1,050	D19 @ 213	900	1,875	1,125	D16 @ 275	2,625	D16x1,950@263	D16 @ 300

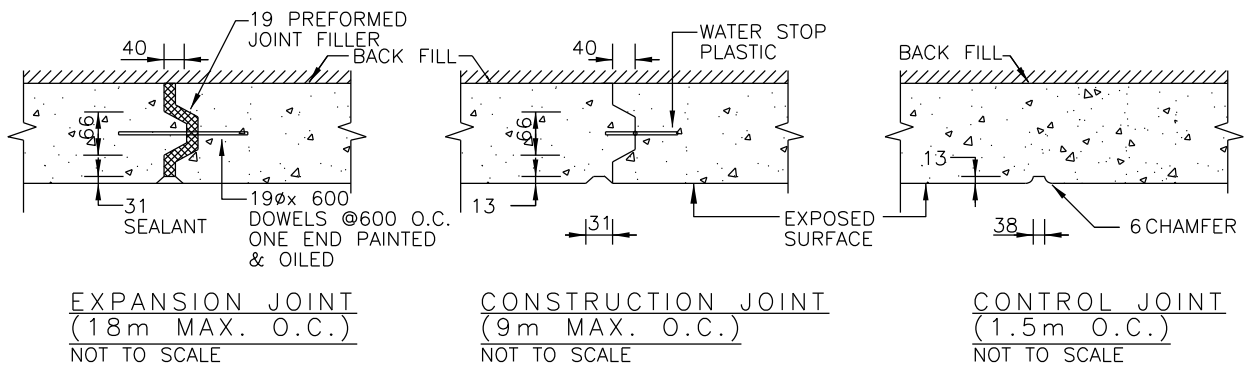
LEGEND

* WHERE "M" BARS ARE REQUIRED, ALTERNATE "M" LONG AND "M" SHORT BARS (SPACING Sm)
 "M" LONG BARS SHALL HAVE 75 CONCRETE COVER. SEE DETAIL ②

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	RETAINING WALL - 4, CONCRETE	N/A	C - 1107



TYPICAL CANTILEVERED RET. WALL SEC.
NOT TO SCALE



TYPICAL JOINTS IN CONCRETE WALLS

NOTE :
SEE DWG. NO. FOR REINFORCING BAR SIZE

	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CONCRETE RETAINING WALL - 1	N/A	C - 1108

REV DATE: NOV 2015



O&MA STANDARD DETAILS, KOREA

OMA SPEC

DWG NO.

TITLE

CONCRETE RETAINING WALL - 2

N/A

C - 1109

REV DATE: NOV 2015

CONCRETE OUTLINES OF RET. WALL

HEIGHT OF WALL=h (m)	B (mm)	a (mm)	b (mm)	c (mm)
0.9m	750	275	175	300
1.2m	950	300	225	425
1.5m	1,150	325	300	525
1.8m	1,350	350	375	625
2.1m	1,575	375	450	750
2.4m	1,775	400	525	900
2.7m	2,000	425	600	975
3.0m	2,225	450	675	1,100
3.3m	2,425	475	750	1,200
3.6m	2,650	500	825	1,325
3.9m	2,850	525	900	1,425
4.2m	3,075	550	975	1,550
4.5m	3,300	575	1,050	1,675

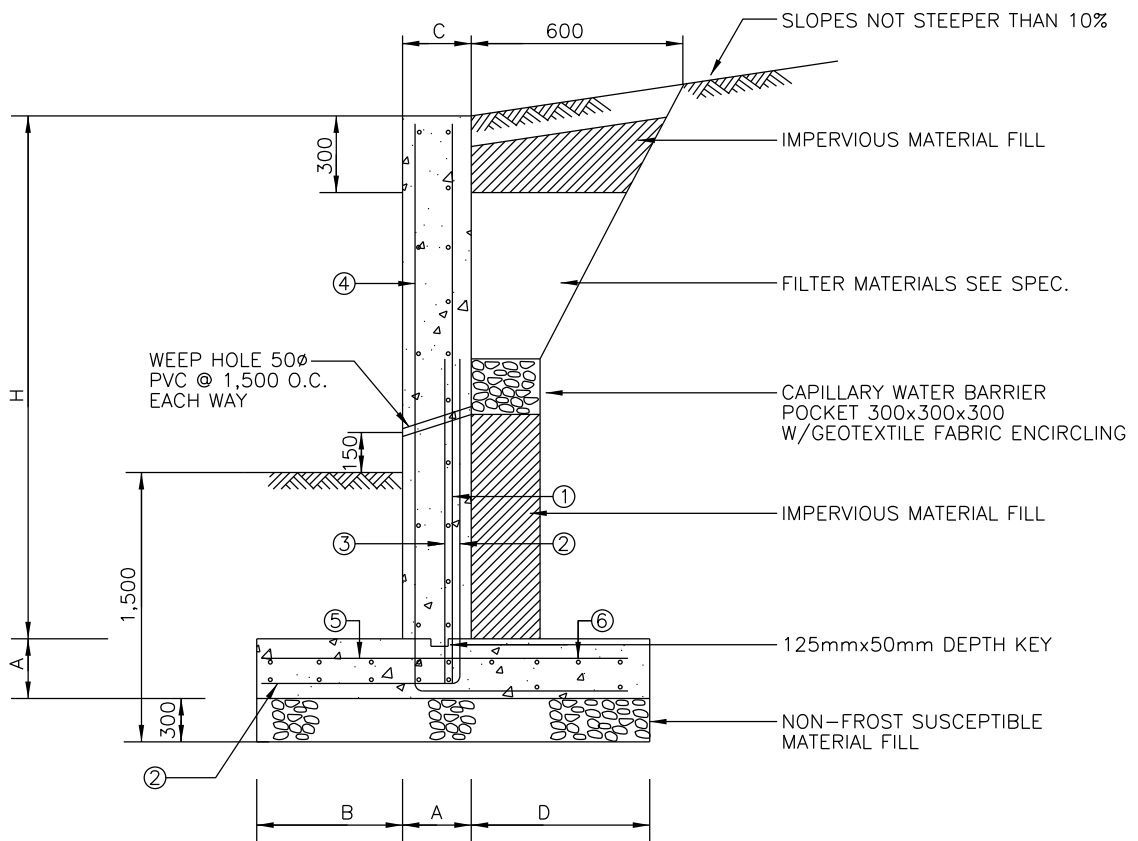
REINFORCEMENT OF RET WALL

HEIGHT OF WALL=h (m)	M		N		Q		P		O		a-b		T		F		L		H					
	BAR SIZE	LENGTH (mm)	BAR SIZE	LENGTH (mm)	BAR SIZE	LENGTH (mm)	BAR SIZE	LENGTH (mm)	BAR SIZE	LENGTH (mm)	BAR SIZE	LENGTH (mm)	BAR SIZE	LENGTH (mm)	BAR SIZE	LENGTH (mm)	BAR SIZE	LENGTH (mm)	BAR SIZE	LENGTH (mm)				
0.9m							D13	550	450	D13	450	400	1,050			D13	850	450	200	D13	250	75	D13	300
1.2m							D13	675	450	D13	450	475	1,375			D13	1,150	450	250	D13	250	100	D13	300
1.5m							D13	775	400	D13	400	575	1,700			D13	1,450	450	200	D13	375	100	D13	375
1.8m							D13	875	450	D13	450	675	2,025	D13	1,150	450	400	225	D13	350	125	D13	350	
2.1m							D13	1,000	225	D13	450	775	1,200	D13	2,375	450	400	275	D13	350	150	D13	350	
2.4m	D13	2,350					D16	1,150	325	D13	375	875	1,100	D13	1,350	375	350	325	D13	350	175	D13	350	
2.7m	D13	2,650					D16	1,275	300	D13	300	1,000	1,200	D13	1,500	300	300	400	D13	300	225	D13	300	
3.0m	D13	2,950					D16	1,400	250	D13	250	1,150	950	D13	1,250	275	275	425	D13	300	250	D13	300	
3.3m	D13	3,250					D16	1,500	200	D19	400	1,150	1,275	D16	1,575	400	400	475	D13	300	275	D13	300	
3.6m	D13	3,550					D21	1,800	325	D19	325	1,275	1,325	D16	1,625	325	325	550	D13	300	300	D13	300	
3.9m	D13	3,850					D21	2,000	275	D19	275	1,400	1,350	D16	1,700	275	275	625	D13	350	275	D16	350	
4.2m	D16	4,150					D25	2,250	300	D21	300	1,400	1,400	D19	1,750	300	300	675	D13	350	300	D16	350	
4.5m	D16	4,450					D25	2,400	250	D21	250	1,500	1,400	D19	2,050	250	250	750	D13	350	325	D16	350	

SCHEDULE OF REINF. CONC. RETAINING WALL											
TYPE	H	B	A	D	C	REQ'D RE-BAR(STEM)				REQ'D	REQ'D
						① H	② 1/2H	③ 1/2H	④ H	⑤ HEEL	⑥ TIE BAR
	m	mm	mm	mm	mm	D25@450	D25@450	D25@450	D13@450	D19@150	D13@250
	5.1m	1,350	375	1,275	300	D25@450	D25@450	D25@450	D13@450	D19@150	D13@250
	5.7m	1,550	450	1,450	300	D25@450	D25@450	D25@450	D13@450	D19@150	D16@300

REF:

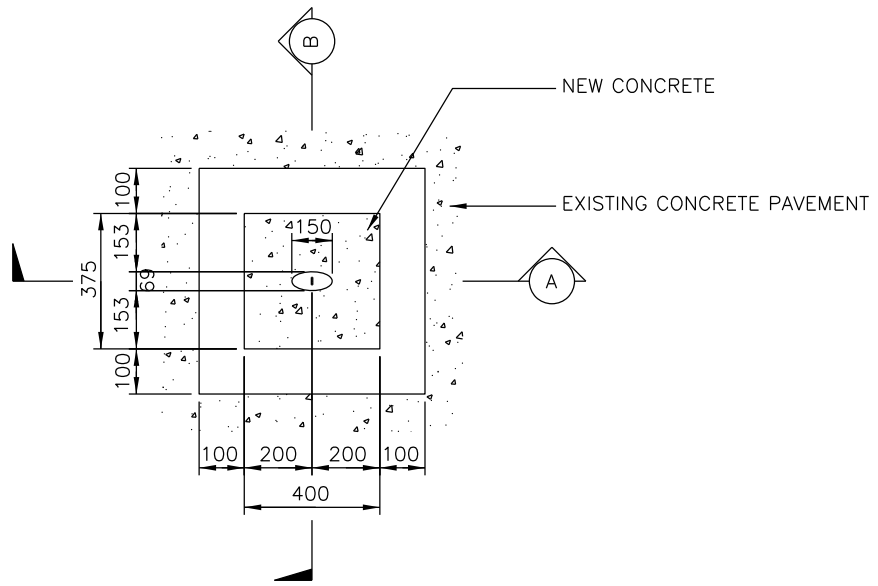
ASSUMED BEARING
PRESSURE AT 72KPa



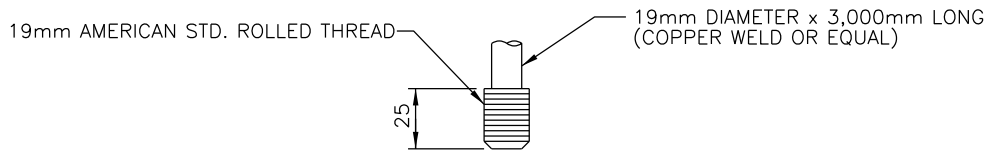
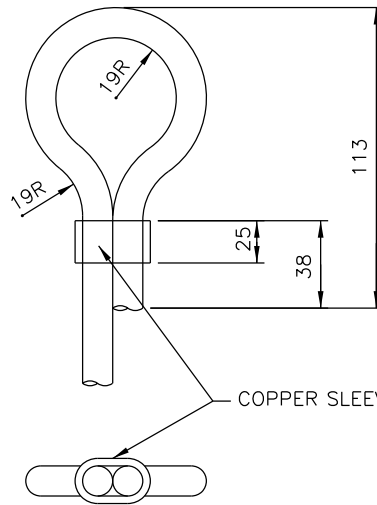
REIF. CONC. RETAINING WALL DETAIL
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CONCRETE RETAINING WALL - 3	N/A	C - 1110

REV DATE: NOV 2015

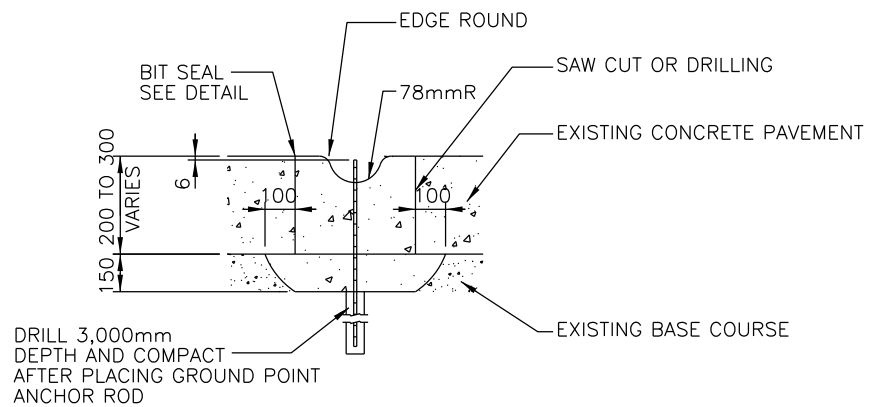


PLAN

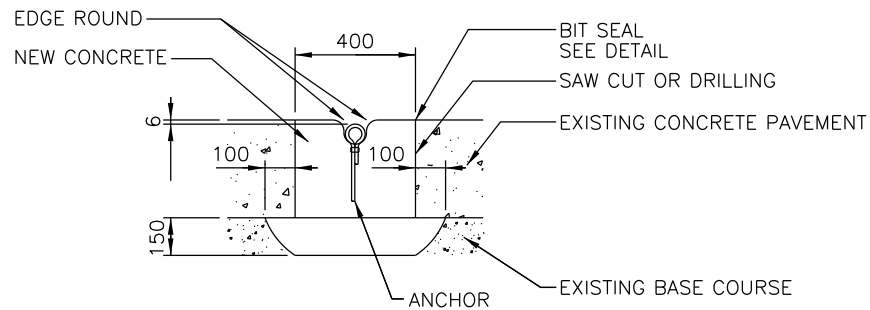


GROUND POINT ANCHOR
NOT TO SCALE

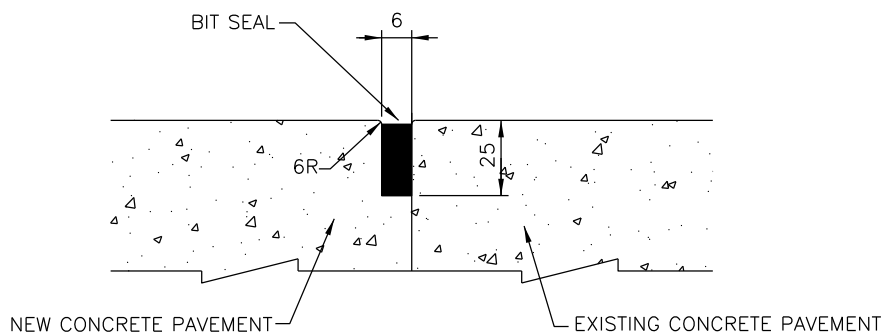
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	GROUND POINT ANCHOR AT AIRFIELD - 1	347313	C - 1201



(A) SECTION



(B) SECTION



SEALING DETAIL
NOT TO SCALE

NOTE : THE SEALANT MUST BE APPLIED TO DEPTH OF 3mm TO 6mm BELOW THE SURFACE OF PAVEMENT.

GROUND POINT ANCHOR
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

DWG NO.

TITLE

GROUND POINT ANCHOR AT AIRFIELD - 2

347313

C - 1202

ARCHITECTURAL STANDARD DETAILS

30 NOVEMBER 2015

DEPARTMENT OF THE ARMY
INSTALLATION MANAGEMENT COMMAND

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TOILET PARTITIONS - 8

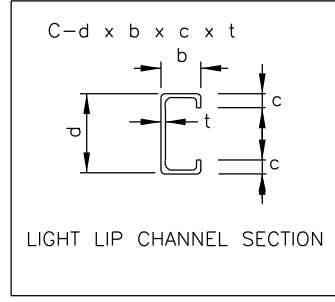
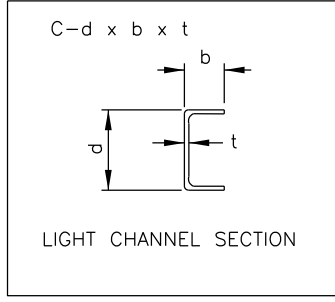
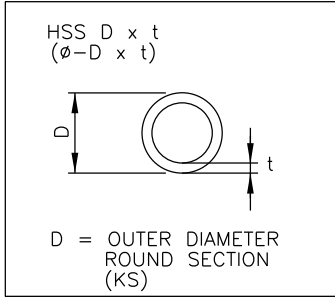
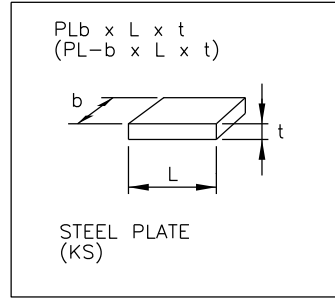
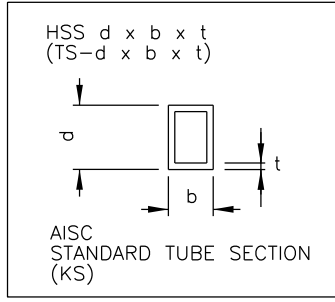
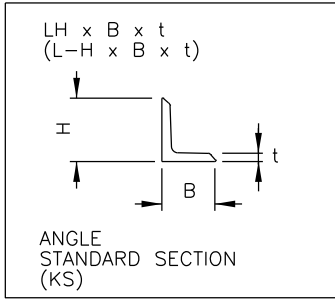
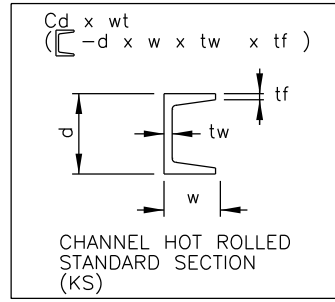
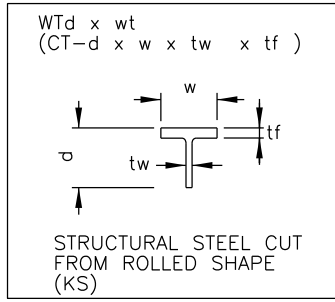
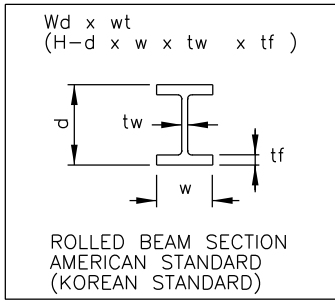
A - 102113 - 1608

TOILET ACCESSORIES

TOILET FIXTURE & ACCESSORY MOUNTING HEIGHT SCHEDULE	A - 102813 - 1701
ACCESSORIES INSTALLATION ELEVATION (STANDARD)	A - 102813 - 1702
ACCESSORIES INSTALLATION ELEVATION (HANDICAPPED)	A - 102813 - 1703
TOILET ACCESSORIES (SHOWER BENCH)	A - 102813 - 1704
TOILET ACCESSORIES (RECESSED SOAP HOLDER)	A - 102813 - 1705
TOILET ACCESSORIES (ROBE HOOK)	A - 102813 - 1706
TOILET ACCESSORIES (URINAL SCREEN - 1)	A - 102813 - 1707
TOILET ACCESSORIES (URINAL SCREEN - 2)	A - 102813 - 1708
TOILET ACCESSORIES (URINAL SCREEN - 3)	A - 102813 - 1709
TOILET ACCESSORIES (MIRROR)	A - 102813 - 1710
TOILET ACCESSORIES (FIXED TILT MIRROR GLASS)	A - 102813 - 1711
TOILET ACCESSORIES (TILTING MIRROR GLASS)	A - 102813 - 1712
TOILET ACCESSORIES (GRAP BAR)	A - 102813 - 1713

MANUFACTURED WOOD CASEWORK

KITCHEN CABINETS - 1	A - 123200 - 1801
KITCHEN CABINETS - 2	A - 123200 - 1802
KITCHEN CABINET DETAIL	A - 123200 - 1803
KITCHEN CABINET DETAIL	A - 123200 - 1804



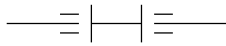
STEEL SIMPLE CONNECTION (PIN)

f'_c SPECIFIED CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS



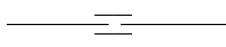
STEEL MOMENT CONNECTION

f'_m SPECIFIED MASONRY COMPRESSIVE STRENGTH



STEEL BEAM CONTINUOUS

f_y YIELD STRENGTH OF REINFORCING STEEL

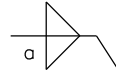


STEEL BEAM SPLICE

F_y YIELD STRESS OF STRUCTURAL STEEL



SLOPE 1:2



FILLET WELD AT BOTH SIDES
USING FILLET SIZE OF a (mm)

Dxx

DEFORMED REINFORCING BAR
w/ xx DIA IN MM

MWx

PLAIN WIRE IN ACI STD



ANCHOR BOLT (IN PLAN)



O&MA STANDARD DETAILS, KOREA

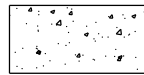
OMA SPEC

DWG NO.

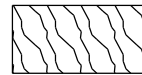
TITLE

LEGEND & SYMBOLS - 1

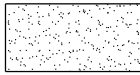
A - 001



CONCRETE



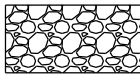
WOOD, FINISH



GROUT & SAND



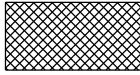
BRICK OR STONE MASONRY
OR NON BEARING CMU



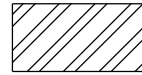
GRAVEL OR BASE MATERIAL



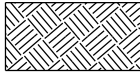
RUBBER



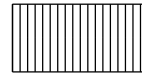
CONCRETE MASONRY UNIT
OR LOAD BEARING CMU



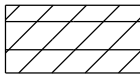
METAL, ROUGH



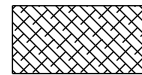
EARTH



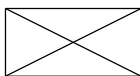
METAL, FINISH



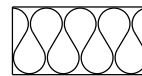
PLYWOOD



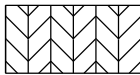
ALUMINUM



WOOD, ROUGH



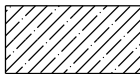
INSULATION



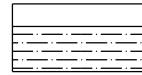
ROCK SURFACE



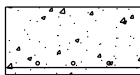
DRY WALL



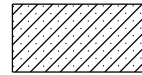
BRONZE, BRASS OR COPPER



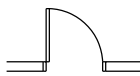
WATER



REINFORCED CONCRETE



STONE CONC.



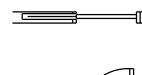
SINGLE DOOR



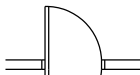
SLIDING DOOR(미닫이문)



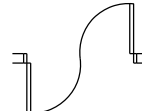
DOUBLE DOOR



POCKET DOOR(쥘머니문)



DOUBLE ACTING DOOR-SINGLE
DOOR



DOULBE ACTING DOOR-IN
& DOOR-OUT



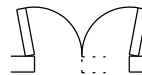
DOUBLE ACTING DOOR-DOUBLE
DOOR



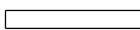
FOLDING DOOR OR FOLDING
PARTITION



FOLDING DOOR OR FOLDING
PARTITION



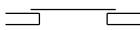
BLAST DOOR



GLASS



WINDOW, SINGLE-OPENING OUT



OVERHEAD COILING DOOR



WINDOW, HORIZONTAL-SLIDING



WINDOW, DOUBLE HUNG



LOUVERED OPENING



WINDOW, DOUBLE-OPENING OUT



IMCOM

O&MA STANDARD DETAILS, KOREA

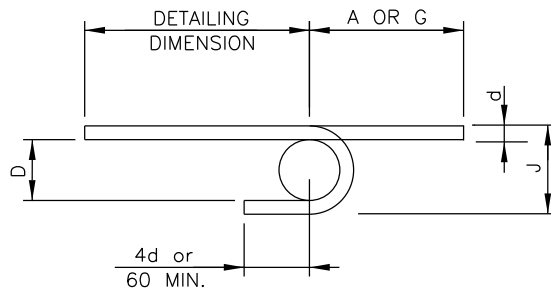
OMA SPEC

DWG NO.

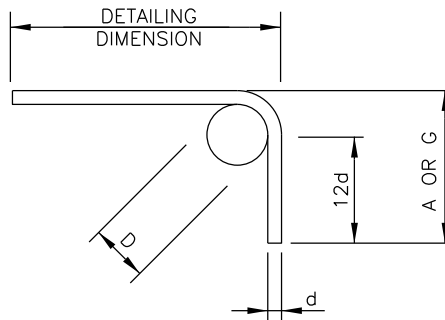
TITLE

LEGEND & SYMBOLS - 2

A - 002



A 180° HOOK



B 90° HOOK

BAR SIZE	D ^① (mm)	180° HOOKS		90° HOOKS
		A OR G	J	A OR G
D10	60	125	80	155
D13	80	155	105	200
D16	95	180	130	250
D19	115	205	155	300
D22	135	250	175	375
D25	155	275	205	425
D29	240	375	300	475
D32	275	425	335	550

① D = 6d FOR D13 THRU D25 BARS
D = 8d FOR D29 AND D32 BARS

MAIN BARS
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

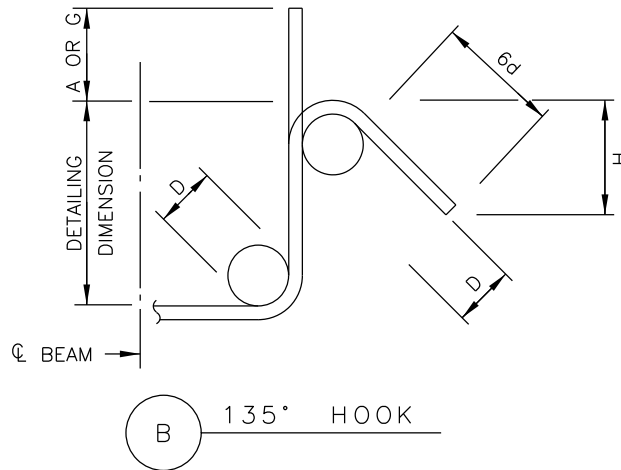
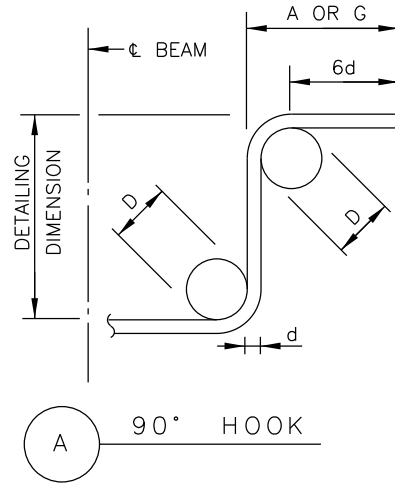
STANDARD HOOK FOR MAIN BARS

OMA SPEC

033000

DWG NO.

A - 101



BAR SIZE	D (mm)	①	135° HOOKS	
		90° HOOKS	A OR G	H APPROX.
D10	40	A OR G	105	65
D13	50	A OR G	115	80
D16	65	A OR G	140	95

① D=4d FOR D13 THRU D16 BARS

STANDARD STIRRUPS OR TIES

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

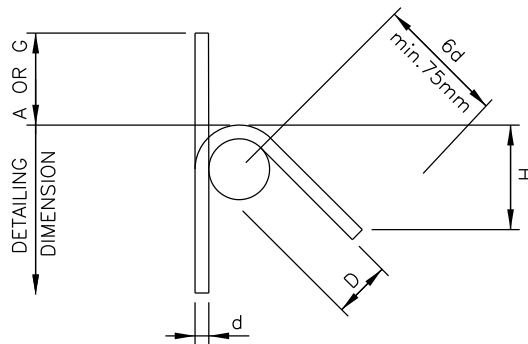
STANDARD HOOK FOR STIRRUPS OR TIES

OMA SPEC

033000

DWG NO.

A - 102



A 135° HOOK

BAR SIZE	D ^① (mm)	135° HOOKS	
		A OR G	H APPROX.
D10	40	110	80
D13	50	115	80
D16	65	140	95
D19	115	205	115
D22	135	230	135

① D=4d FOR D13 THRU D16 BARS
D=6d FOR D19 AND D22 BARS

② FOR 90° HOOK SEE A-101

SEISMIC STIRRUPS OR TIES

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

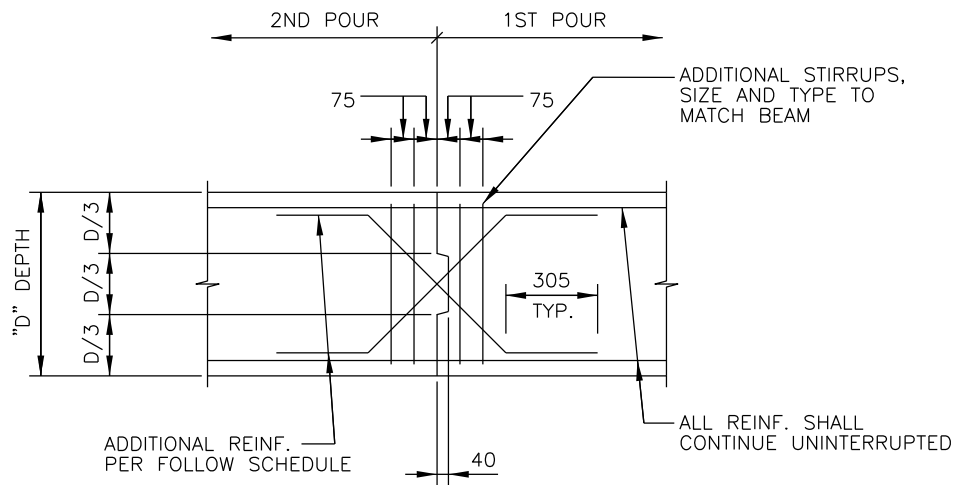
STANDARD HOOK FOR SEISMIC STIRRUPS OR TIES

OMA SPEC

033000

DWG NO.

A - 103



ADDITIONAL REINFORCING SCHEDULE	
MAX. BEAM WIDTH(mm)	ADDITIONAL REINF.
177	1-D19 (2 TOTAL)
508	2-D19 (4 TOTAL)
1,016	4-D19 (8 TOTAL)
GREATER THAN 1,016	6-D19 (12 TOTAL)

* NOTE :
 JOINT SHALL BE LOCATED WITHIN MIDDLE 1/3 OF SPAN

TYP. CONSTRUCTION JOINT IN BEAM

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

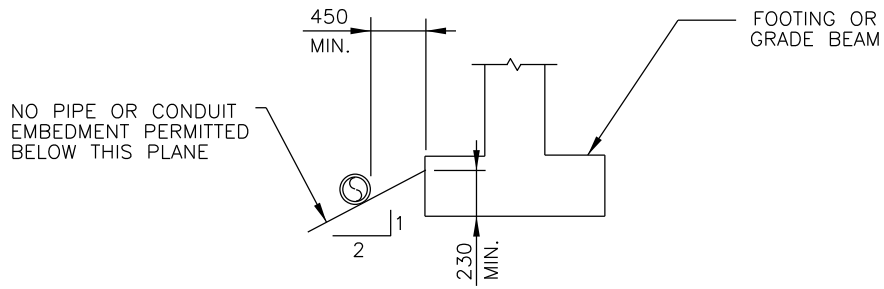
TYPICAL CONSTRUCTION JOINT IN BEAM

OMA SPEC

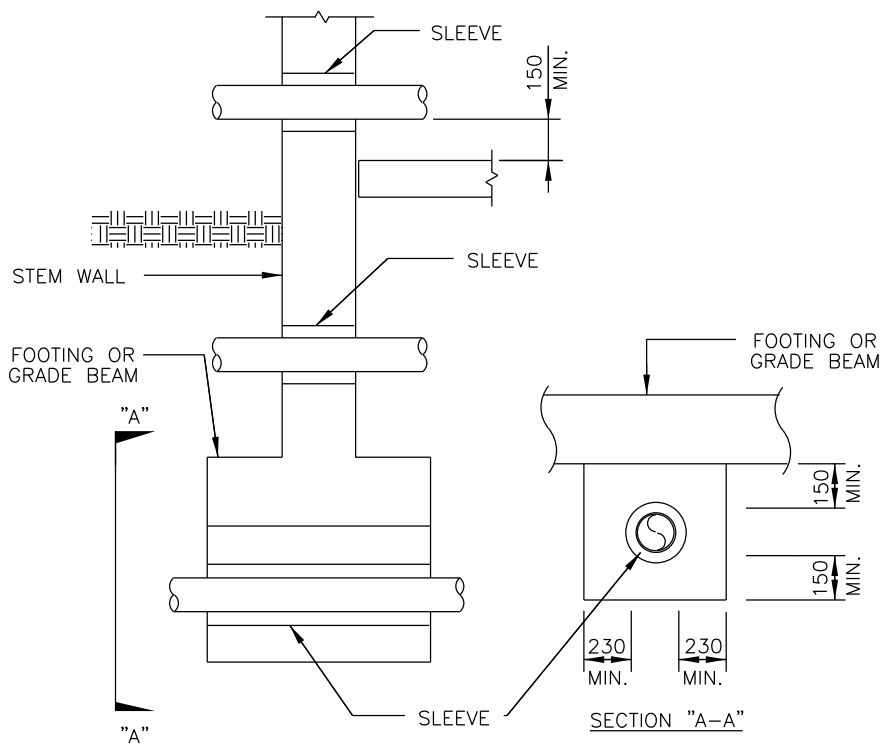
033000

DWG NO.

A - 104



A PARALLEL PIPE



B PERPENDICULAR PIPE

NOTE :
SEE MECHANICAL DWG.FOR SLEEVE DET. & SIZE.

TYP. PIPE OR CONDUIT AT FOUNDATION

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

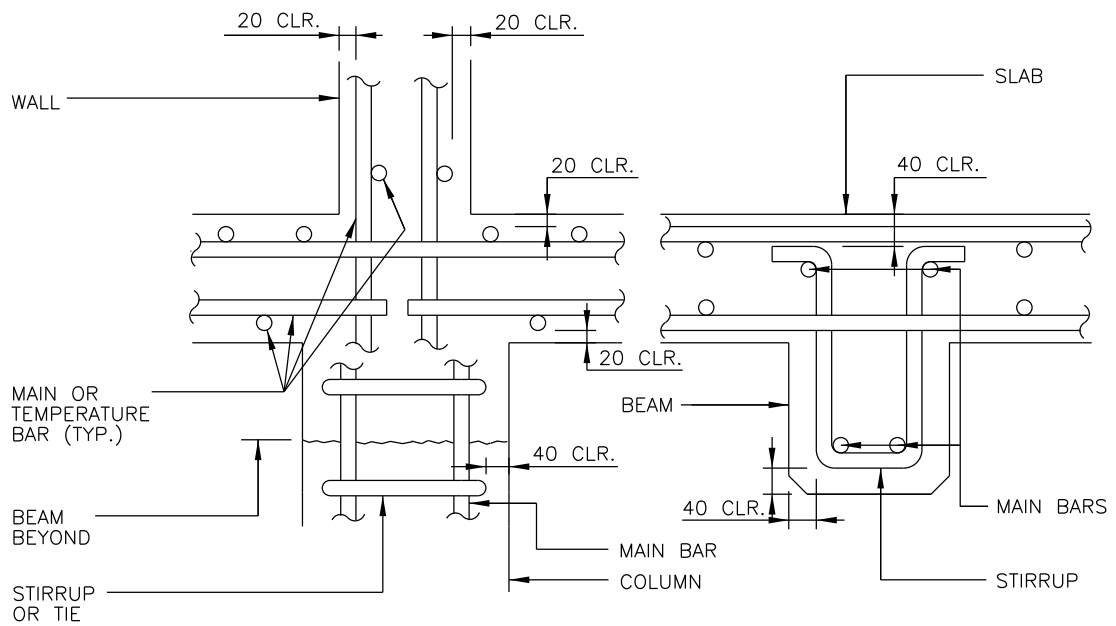
TYPICAL PIPE OR CONDUIT AT FOUNDATION

OMA SPEC

033000

DWG NO.

A - 105



(A) CONCRETE NOT EXPOSED TO EARTH OR WEATHER

* NOTE :

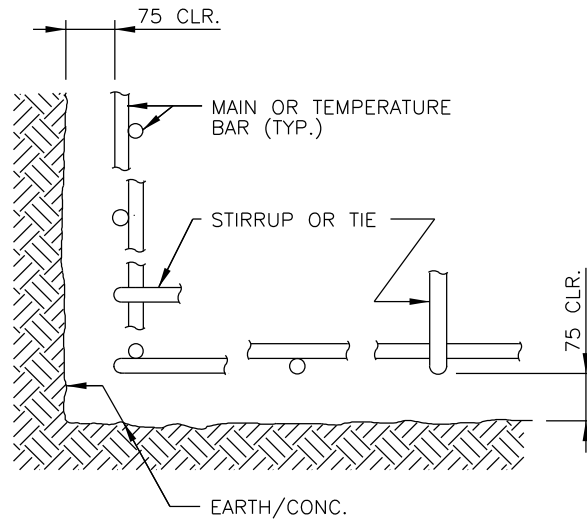
1. PROTECTIVE COVER SHOWN IS MINIMUM PERMITTED
2. THICKER PROTECTIVE COVER INDICATED IN SPECIFIC DETAILS SHALL GOVERN.
3. COMPLY WITH A CASE OF CONC. EXPOSED TO EARTH OR WEATHER FOR STRL SLAB-ON-GRADE AND GRADE BEAM.
4. PROTECTIVE COVER SHOWN IS FOR CAST-IN-PLACE CONCRETE ONLY. FOR PRECAST CONCRETE COVER, REFER TO ACI-318 CHAPTER 7.

CONCRETE PROTECTION FOR REINFORCING BARS

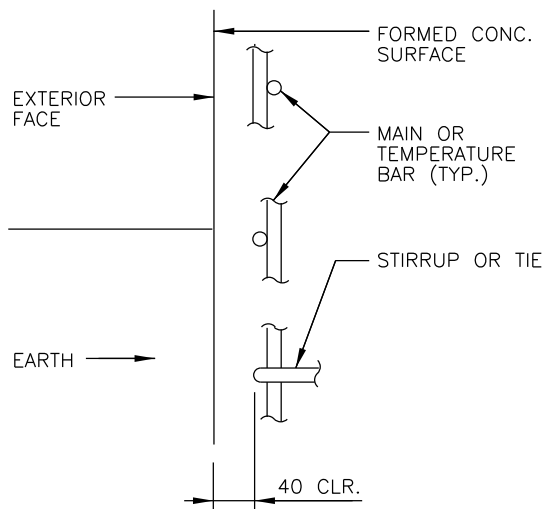
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CONCRETE PROTECTION FOR REINFORCING BARS - 1	033000	A - 106

REV DATE: NOV 2015



A CONCRETE CAST AGAINST EARTH

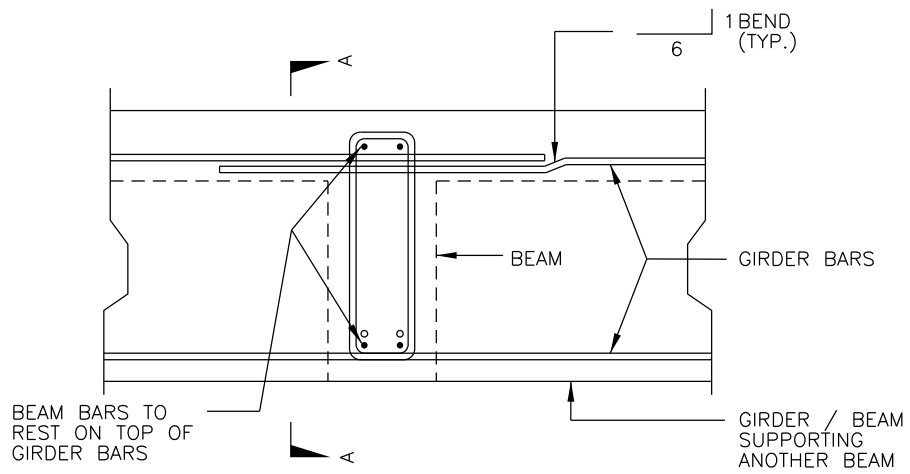


B CONCRETE EXPOSED TO EARTH OR WEATHER (FORMED)

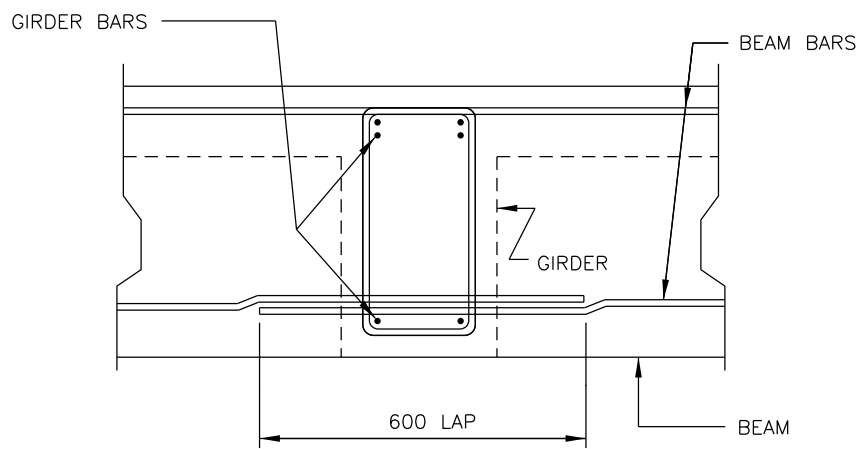
CONCRETE PROTECTION FOR REINFORCING BARS

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CONCRETE PROTECTION FOR REINFORCING BARS - 2	033000	A - 107



(A) JOINT DETAIL

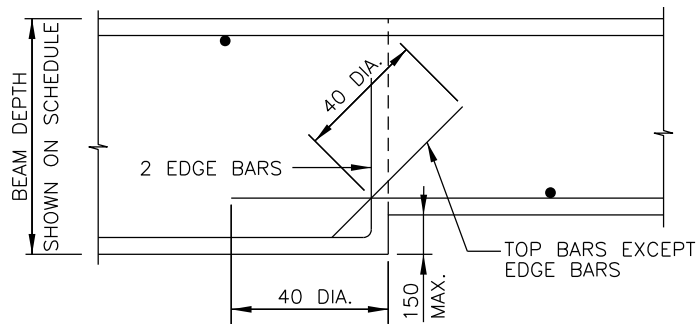
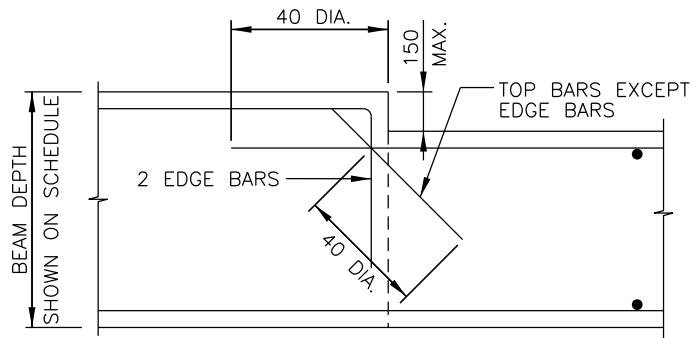


(B) SEC A - A

BEAM & GIRDER JOINT DETAIL

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	BEAM & GIRDER JOINT DETAIL	033000	A - 108

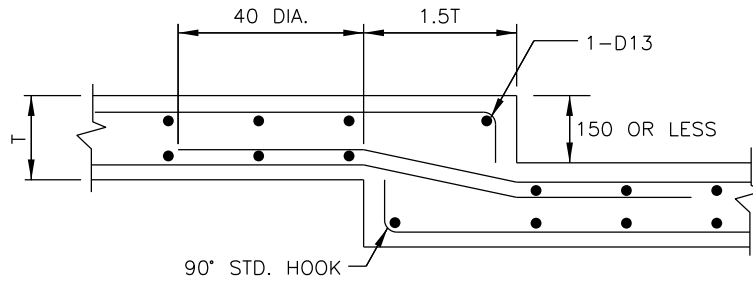
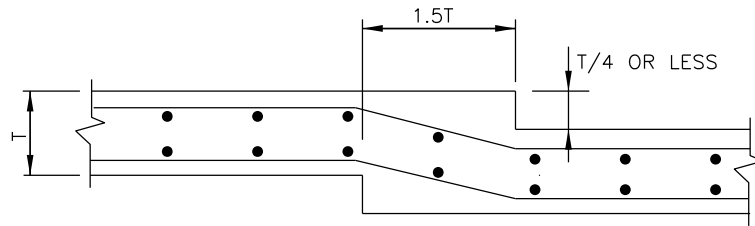


TYPICAL CONCRETE BEAM REINF. DET AT DEPRESSION

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL CONCRETE BEAM REINF. DET AT DEPRESSION	033000	A - 109

REV DATE: NOV 2015



TYPICAL STRUCTURAL SLAB REINF. DET AT DEPRESSION
 NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

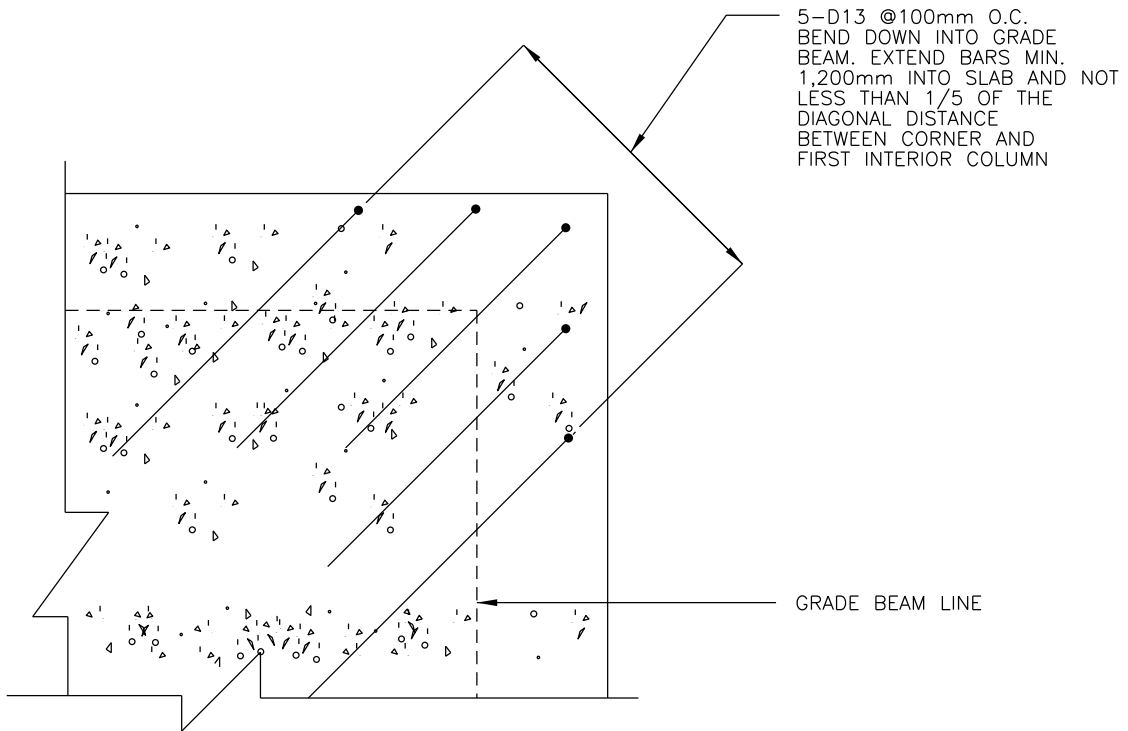
DWG NO.

TITLE

TYPICAL STRUCTURAL SLAB REINF. DET AT DEPRESSION

033000

A - 110

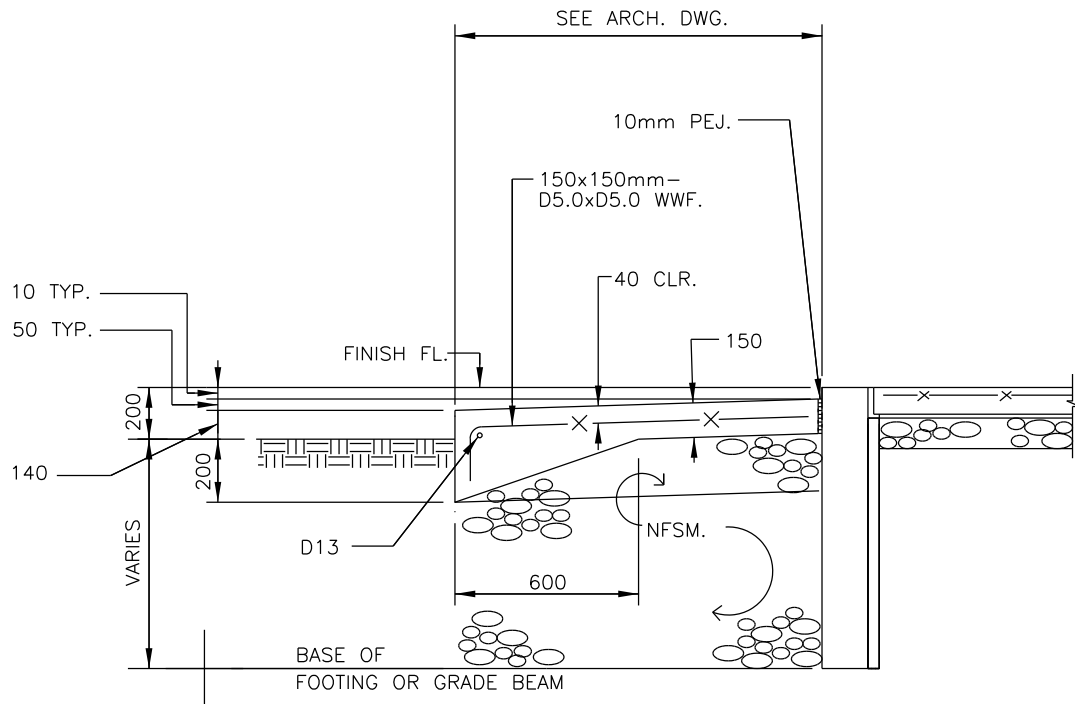


TYPICAL STRUCTURAL SLAB CORNER REINFORCEMENT

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL STRUCTURAL SLAB CORNER REINFORCEMENT	033000	A - 111

REV DATE: NOV 2015

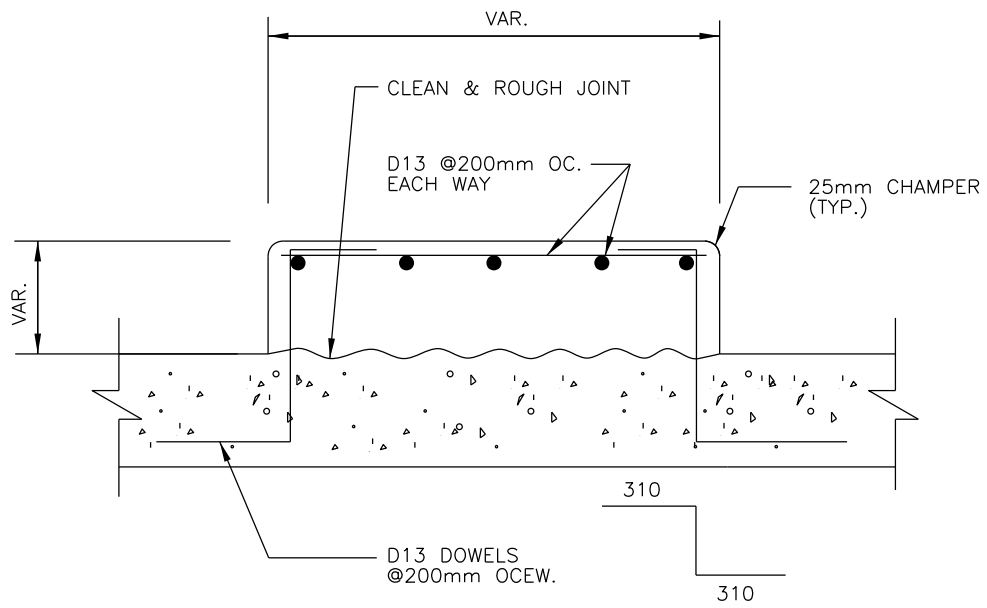


CONCRETE STOOP

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CONCRETE STOOP	033000	A - 112

REV DATE: NOV 2015



* NOTE :

THE SIZE & LOCATION OF EQUIPMENT PADS ARE FOR INFORMATION ONLY AND SHALL BE MODIFIED TO SUIT THE SELECTED EQUIPMENT.

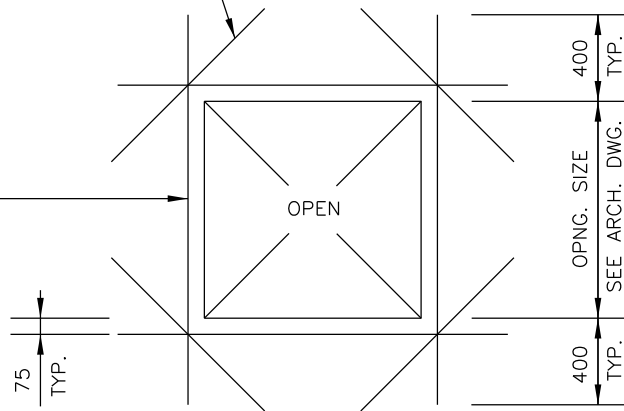
TYPICAL MECHANICAL PAD DETAIL

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL MECHANICAL PAD DETAIL	033000	A - 113

2-D13X1,000mm LG. EF.
DIAGONAL BARS

2-D13 TOP & BOT.
BARS @ TYP. ALL
4-SIDE OF OPNG.



TYPICAL SLAB OPENING REINF. DETAIL

NOT TO SCALE



IMCOM

O&MA STANDARD DETAILS, KOREA

TITLE

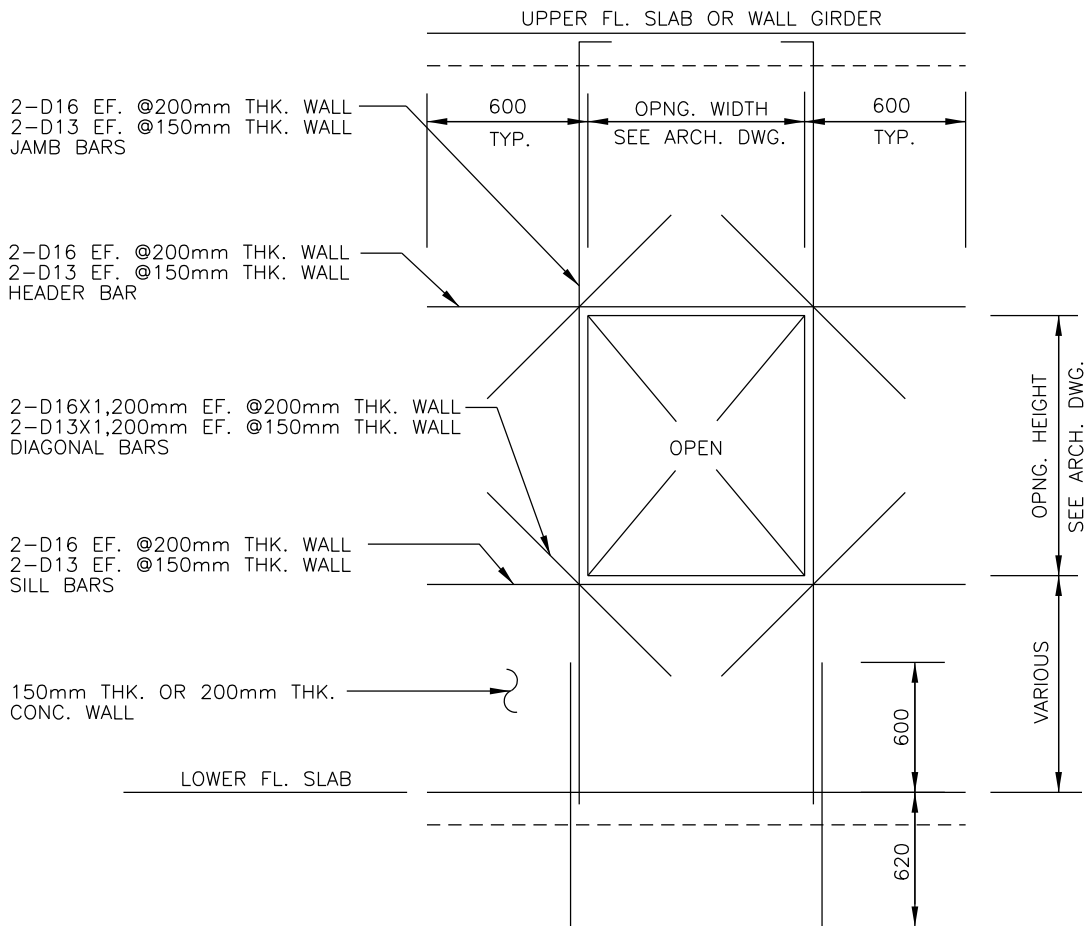
TYPICAL SLAB OPENING REINF. DETAIL

OMA SPEC

033000

DWG NO.

A - 114

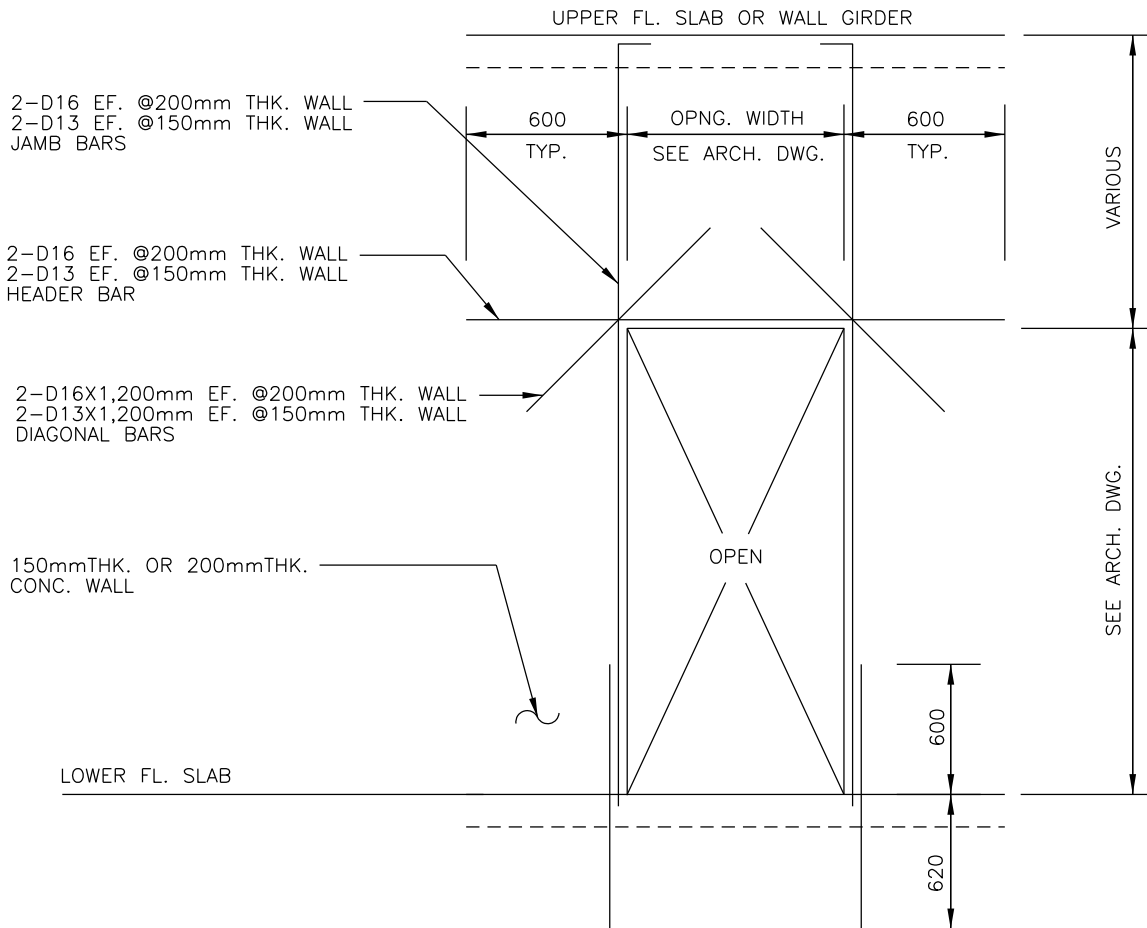


WINDOW/LOUVER OPENING

NOT TO SCALE

 <p>IMCOM</p>	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL WALL OPENING REINF. DETAIL - 1	033000	A - 115

REV DATE: NOV 2015

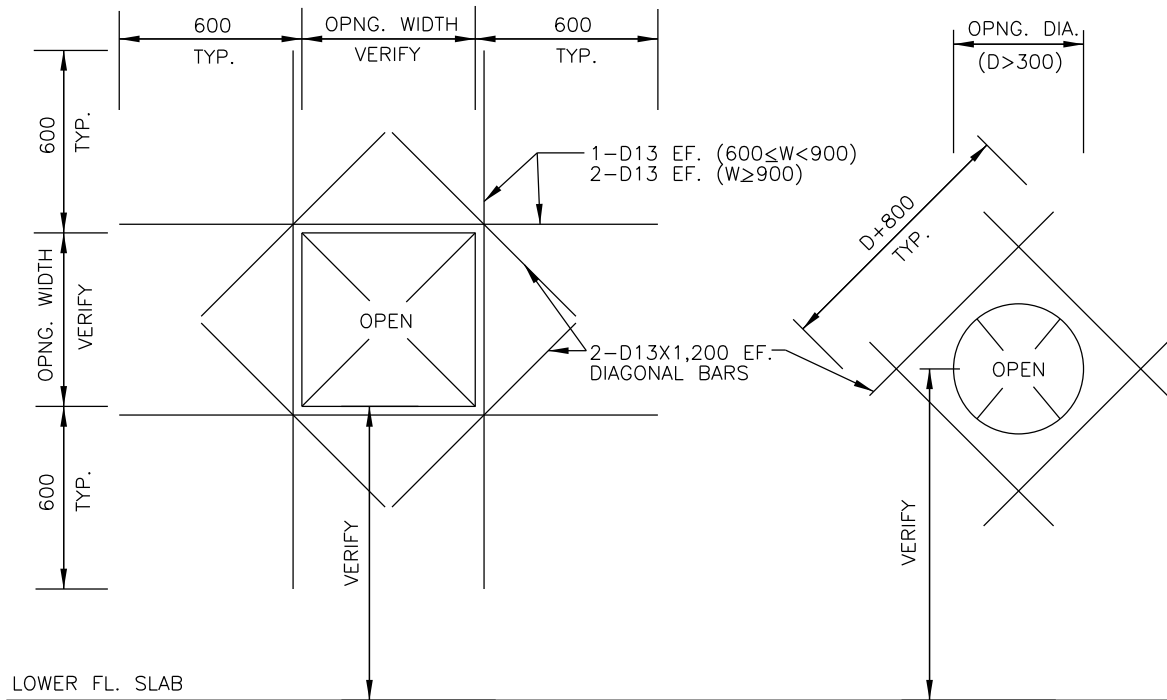


DOOR/CRAWL SPACE OPENING

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL WALL OPENING REINF. DETAIL - 2	033000	A - 116

UPPER FL. SLAB OR WALL GIRDER



A RECTANGULAR TYPE

B CIRCULAR TYPE

MECH. WALL OPENING REINF. DETAIL

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

DWG NO.

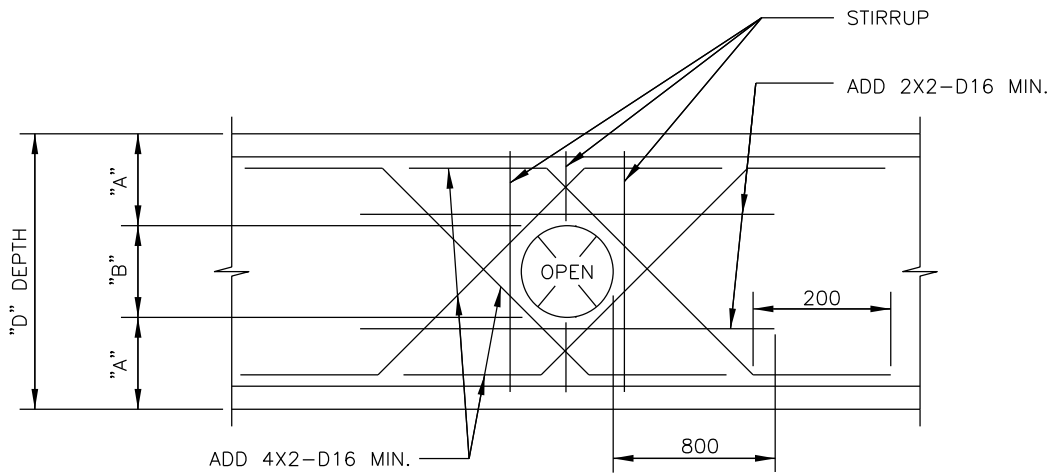
TITLE

TYPICAL WALL OPENING REINF. DETAIL - 3

033000

A - 117

REV DATE: NOV 2015



BEAM DEPTH (D)(mm)	CLEARANCE (A) (mm)	OPENING DIA. (B) (mm)
$500 \leq D < 700$	$200 \geq$	$120 \leq$
$700 \leq D < 900$	$250 \geq$	$150 \leq$
$900 \leq D$	$300 \geq$	$200 \leq$

TYPICAL BEAM OPENING REINF. DETAIL

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

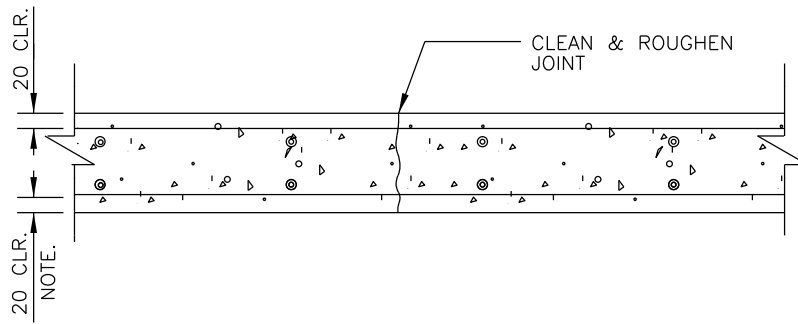
TYPICAL BEAM OPENING REINF. DETAIL

OMA SPEC

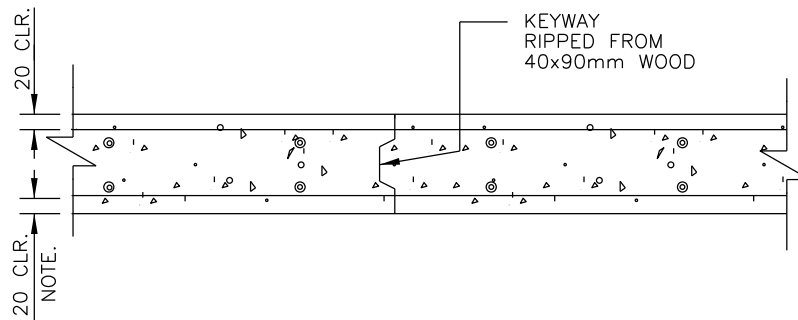
033000

DWG NO.

A - 118



A PREFERRED



B ALTERNATE

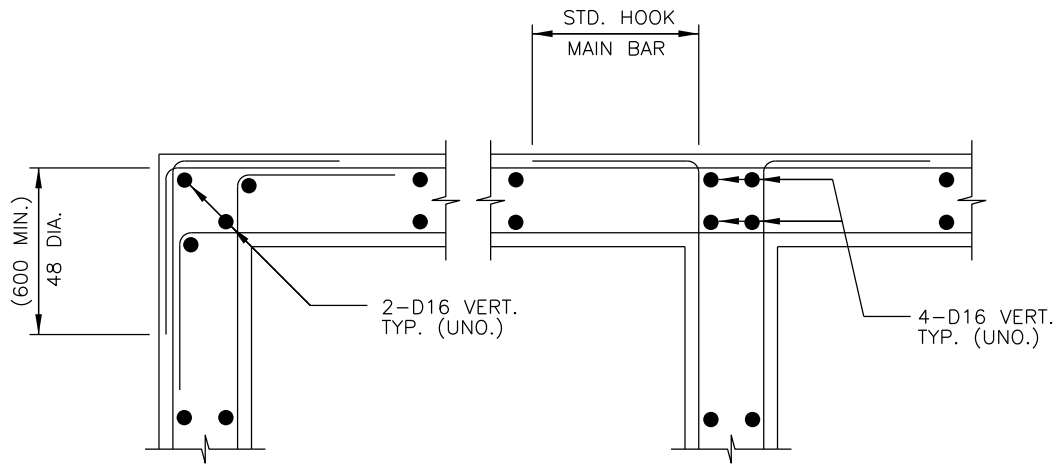
NOTE :

THE BOTTOM COVER SHALL BE 75mm
FOR STRL. SLAB-ON-GRADE UNO.

TYP. STRUCTURAL SLAB CONST. JOINT DETAIL

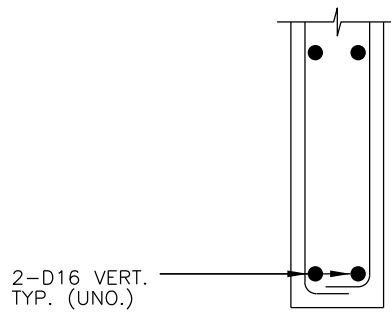
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL STRUCTURAL SLAB CONST. JOINT DETAIL	033000	A - 119



A CORNER

B INTERSECTION



C WALL END / JAMB

HORIZONTAL BAR LAPS AND WALL INTERSECTION

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

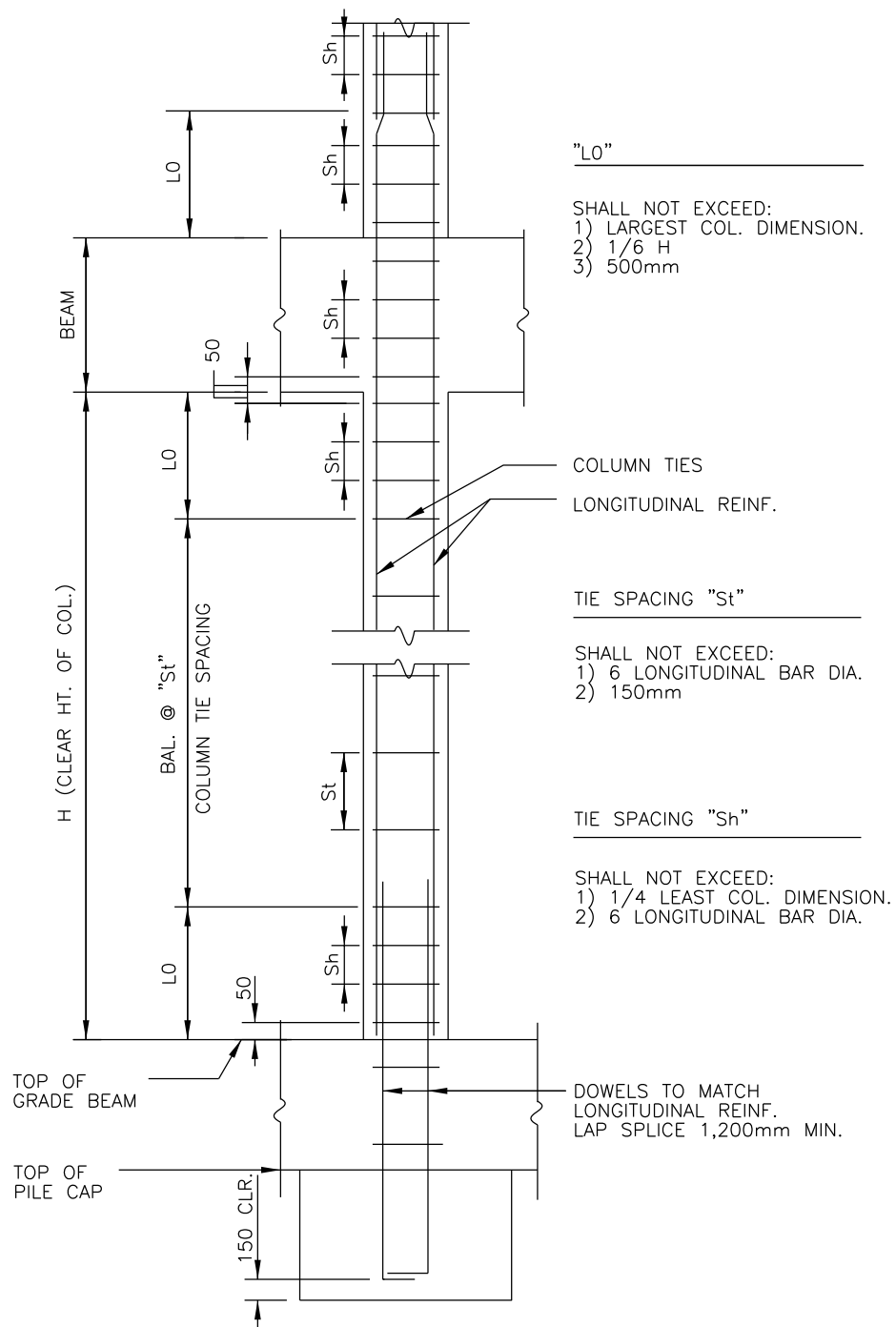
DWG NO.

TITLE

HORIZONTAL BAR LAPS AND WALL INTERSECTION

033000

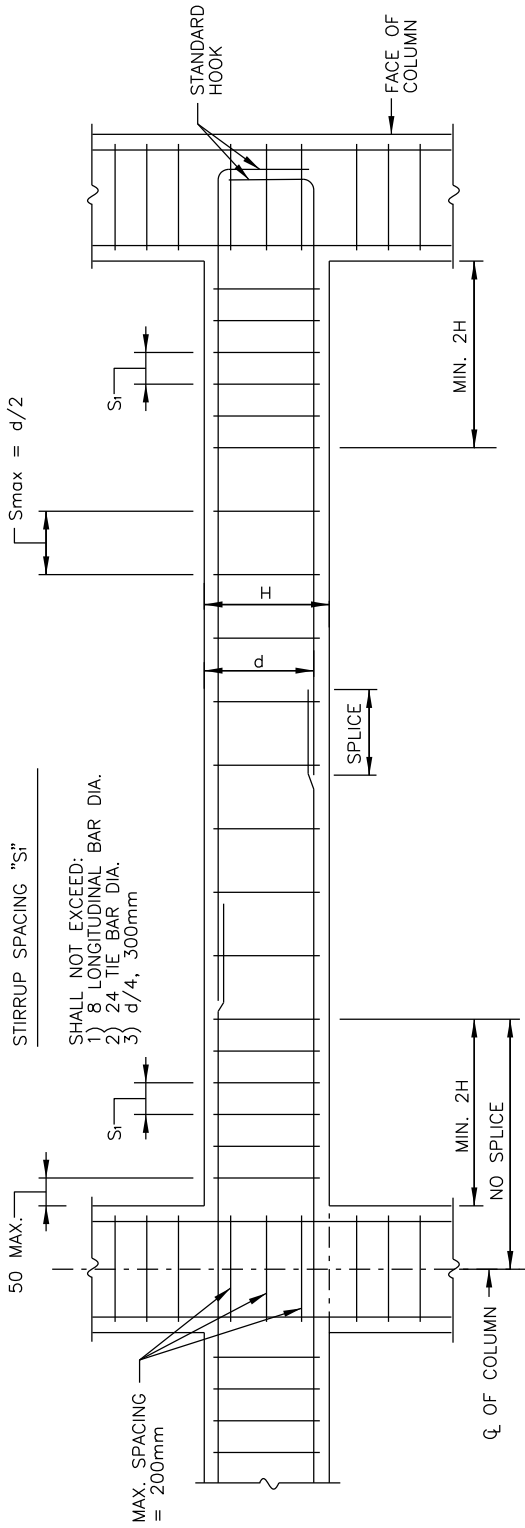
A - 120



TYP. SEISMIC TIE REINF. DETAIL FOR COLUMN

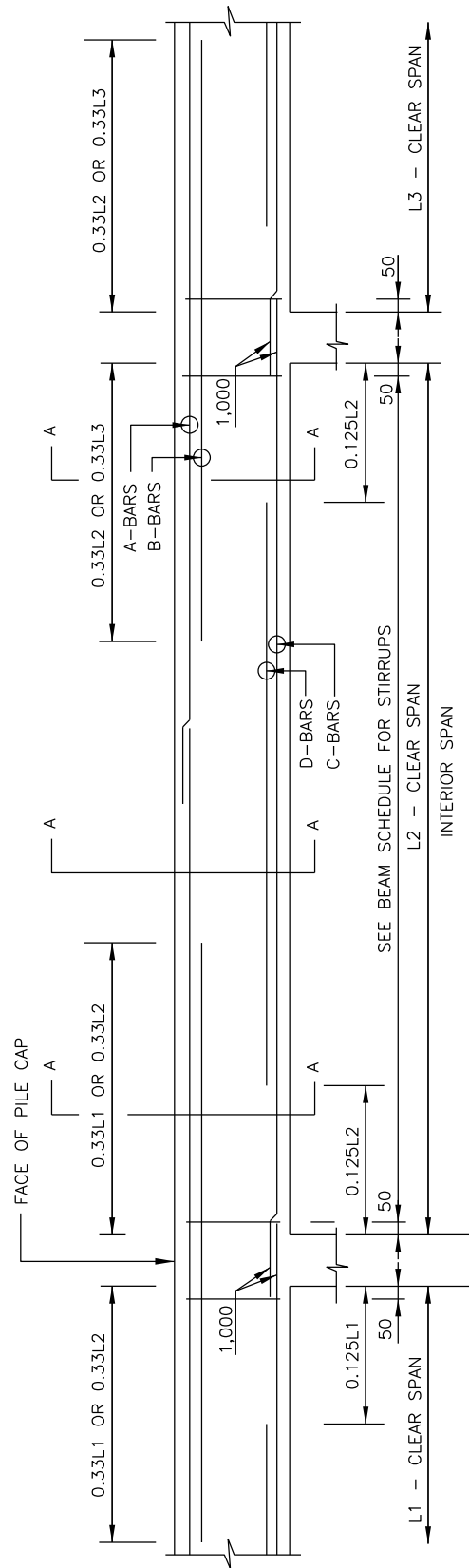
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL SEISMIC TIE REINF. DETAIL FOR COLUMN	033000	A - 121



TYP. SEISMIC TIE REINF. DETAIL FOR BEAM
 NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL SEISMIC TIE REINF. DETAIL FOR BEAM	033000	A - 122



TYPE "A" - CONTINUOUS SPAN

NOT TO SCALE



IMCOM

O&MA STANDARD DETAILS, KOREA

TITLE

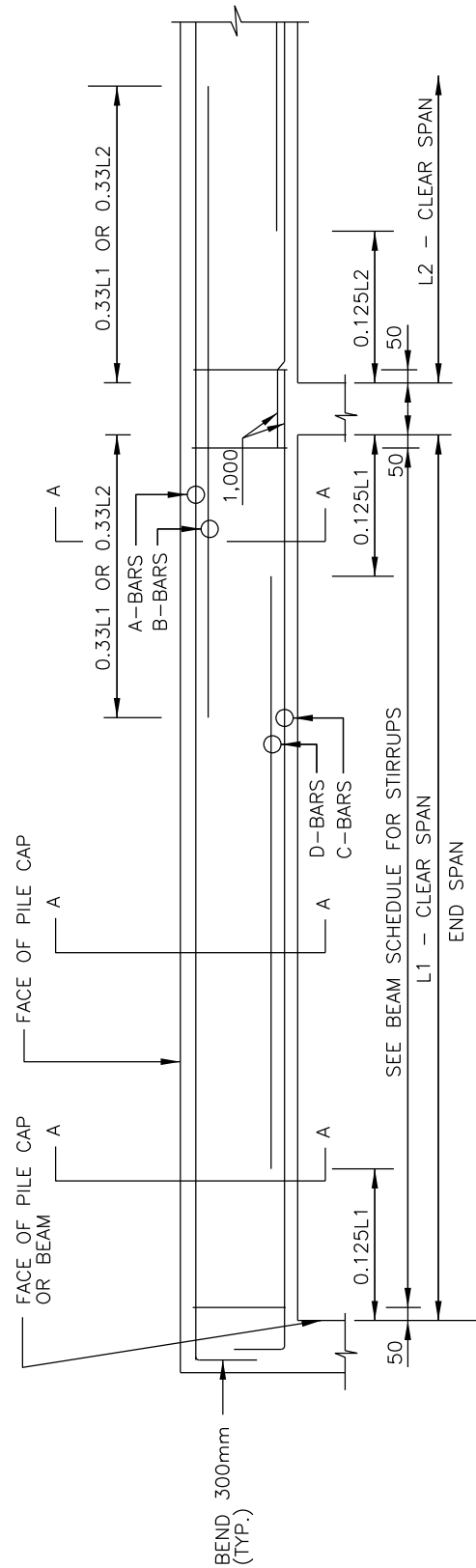
TYPICAL CONCRETE BEAM DETAIL - 1

OMA SPEC

033000

DWG NO.

A - 123



TYPE "B" - END SPAN

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

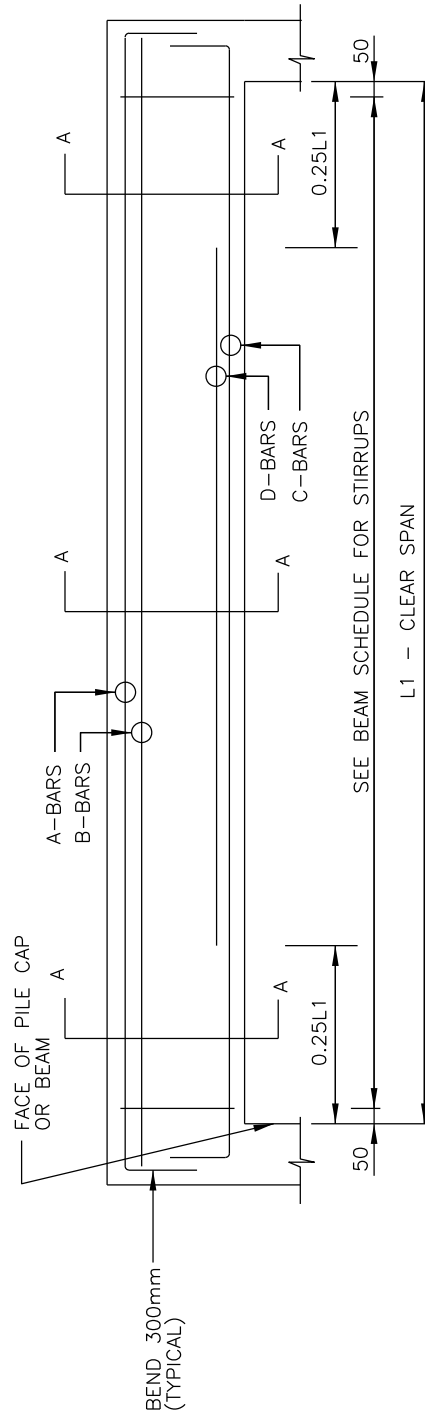
TYPICAL CONCRETE BEAM DETAIL - 2

OMA SPEC

033000

DWG NO.

A - 124



TYPE "C" - SIMPLE SPAN

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

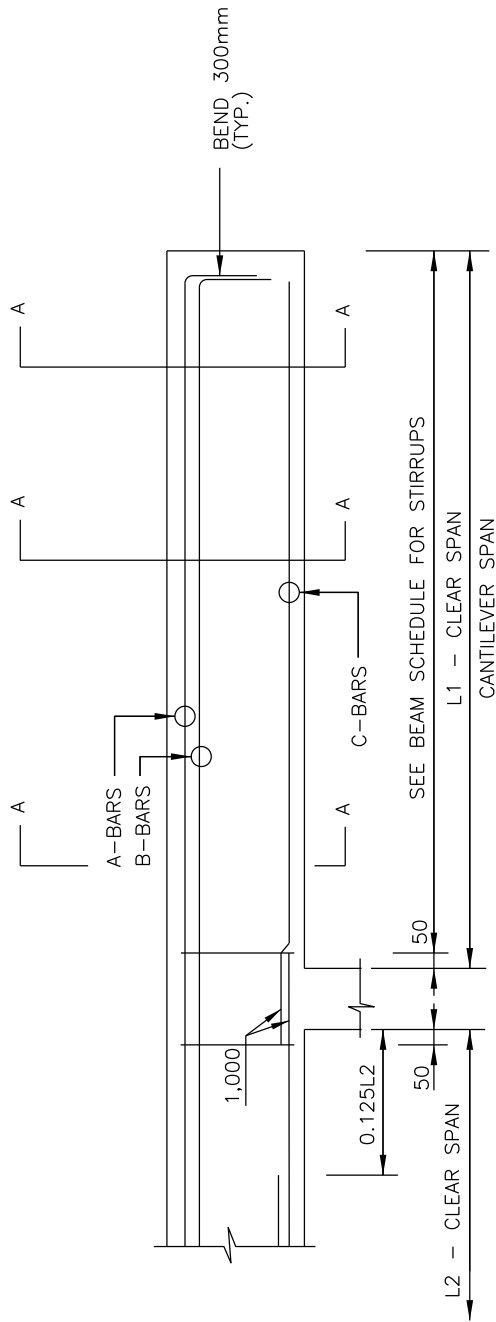
TYPICAL CONCRETE BEAM DETAIL - 3

OMA SPEC

033000

DWG NO.

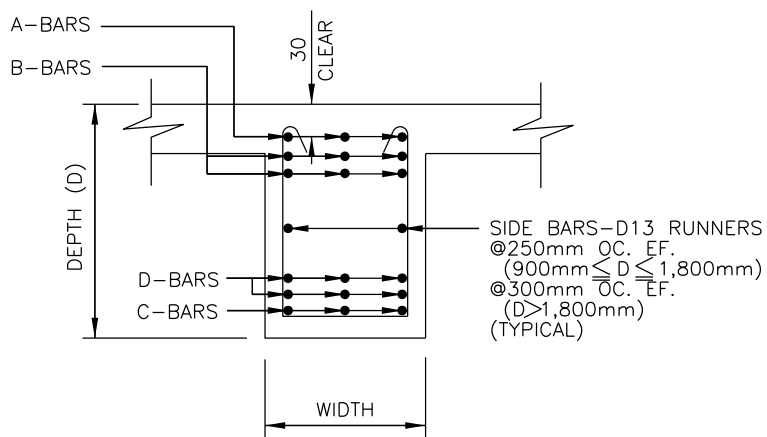
A - 125



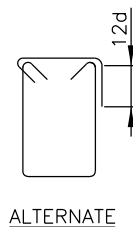
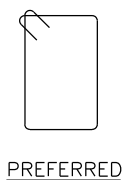
TYPE "D" - CANTILEVER SPAN

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL CONCRETE BEAM DETAIL - 4	033000	A - 126



A TYP. SECTION

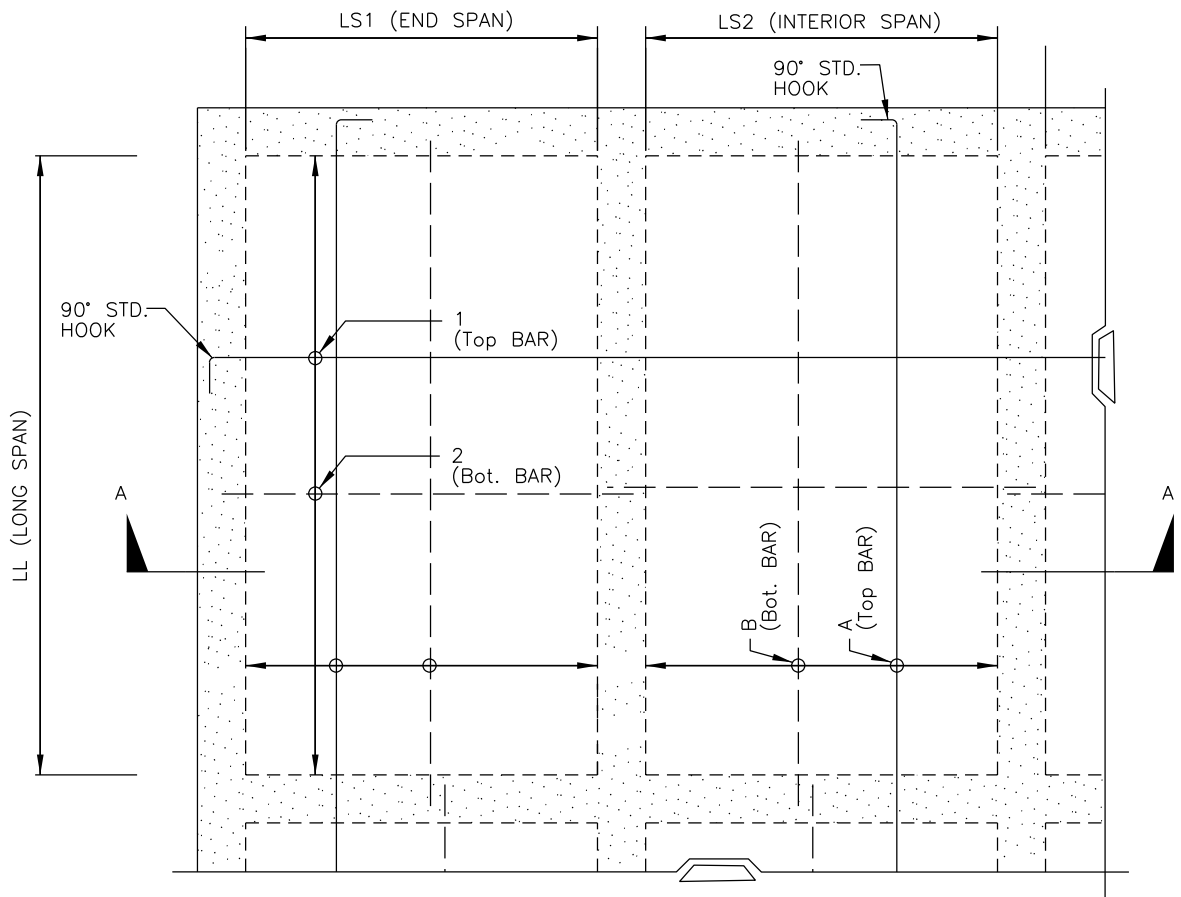


B CLOSED STIRRUP

TYPICAL CONCRETE BEAM SECTION

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL CONCRETE BEAM SECTION	033000	A - 127

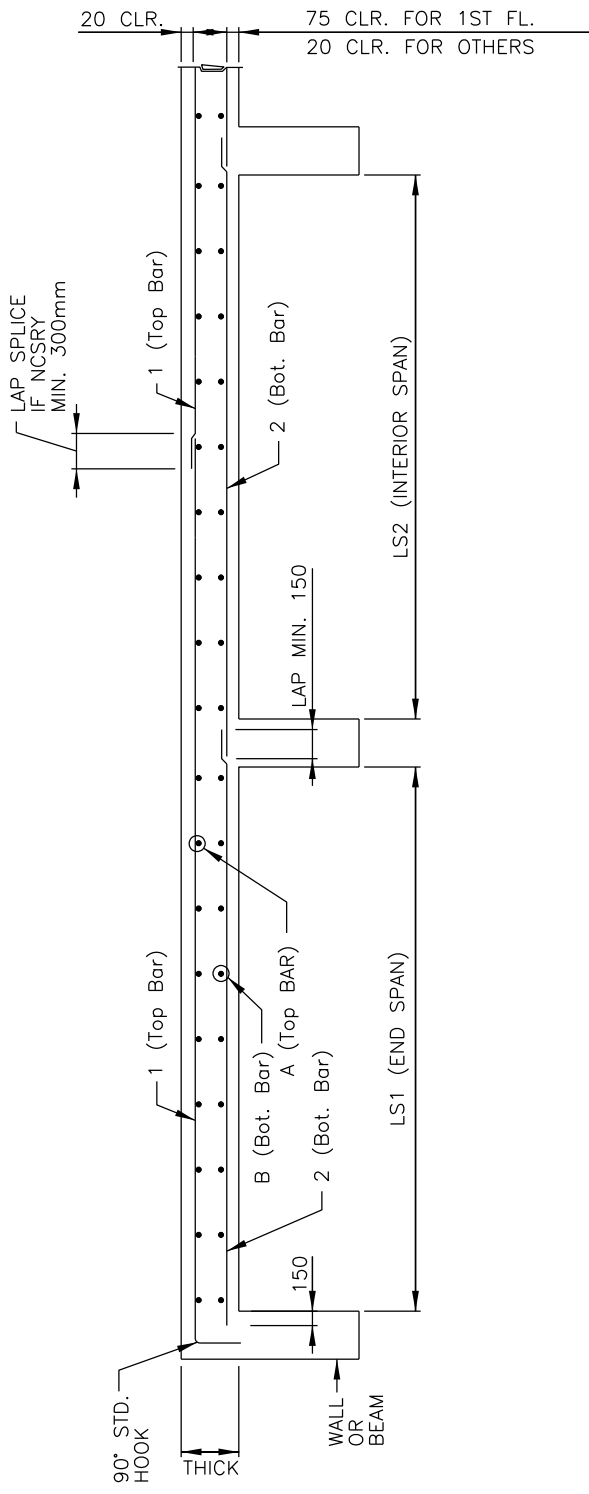


CONCRETE STRUCTURAL SLAB SCHEDULES - 1

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CONCRETE STRUCTURAL SLAB SCHEDULES - 1	033000	A - 128

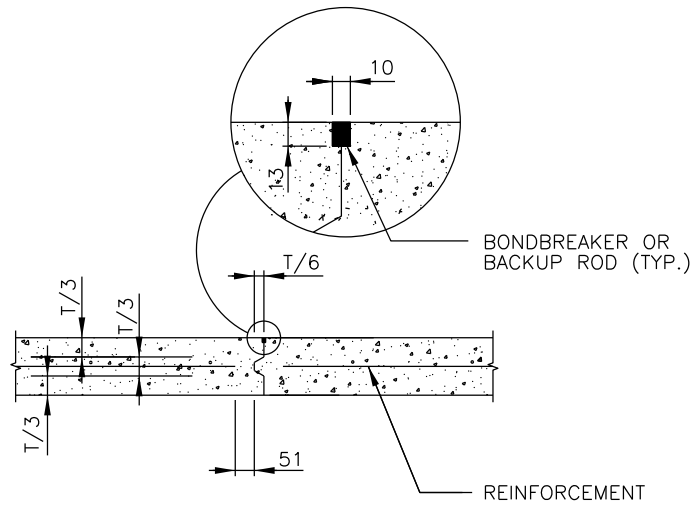
REV DATE: NOV 2015



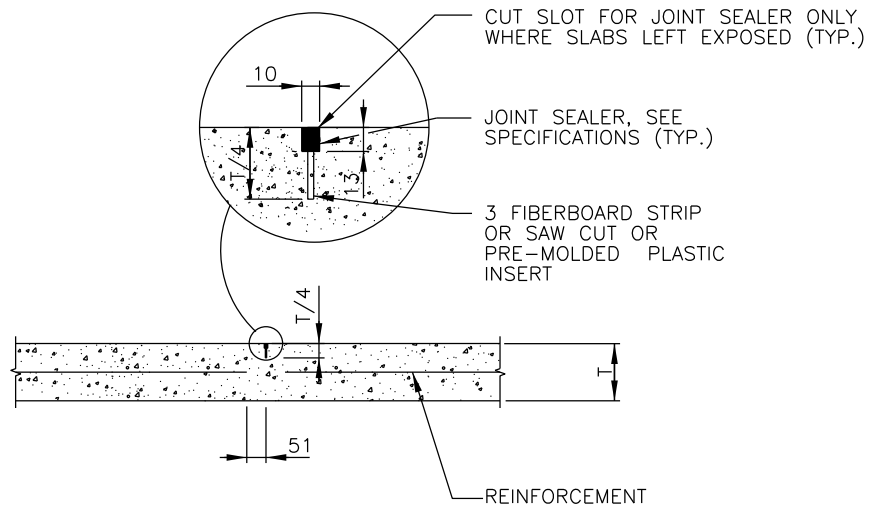
TYP. SECTION A-A

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CONCRETE STRUCTURAL SLAB SCHEDULES - 2	033000	A - 129



A CONSTRUCTION JOINT (CJ.)



B CONTRACTION JOINT (CTJ)

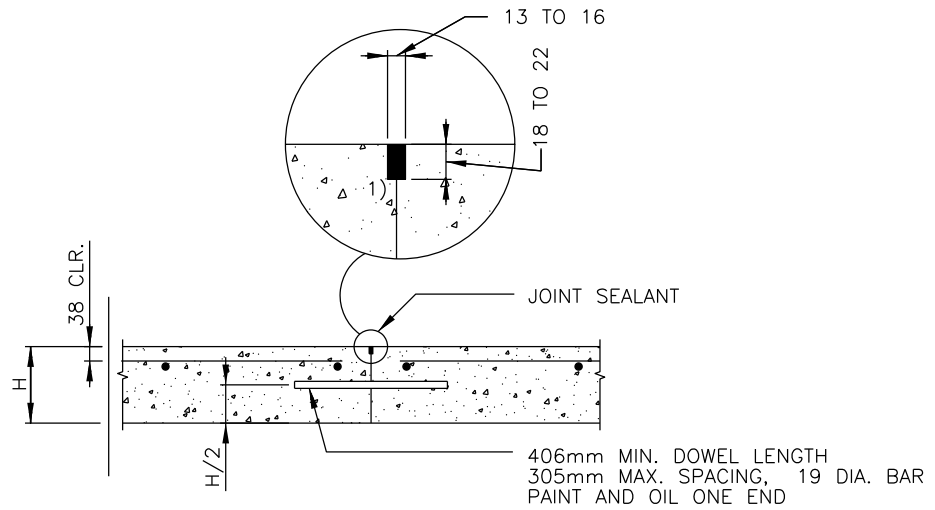
* NOTE :

DO NOT PROVIDE CUT SLOT AND SEALANT WHERE SLAB HAS A FLOOR COVERING. SEE ARCHITECTURAL DRAWINGS FOR FINISH LOCATIONS.

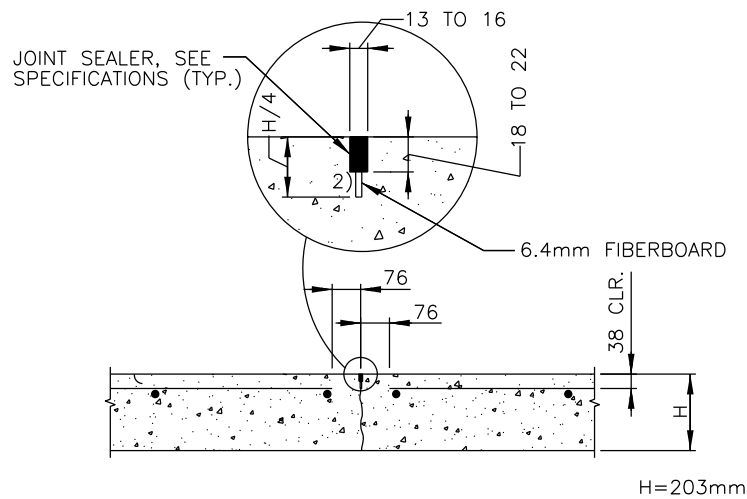
TYP. CONCRETE SLAB CONTROL JOINTS - 1

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL CONCRETE SLAB CONTROL JOINTS - 1	033000	A - 130



A CONSTRUCTION JOINT (CJ)



B CONTRACTION JOINT (CTJ)

NOTE:

- 1) NON-ABSORPTIVE MATERIAL REQUIRED TO PREVENT BOND.
- 2) NON-ABSORPTIVE SEPARATION MEDIUM WILL BE USED BETWEEN JOINT SEALANT AND UNDERLYING MATERIAL

TYP. SLAB CONTROL JOINTS (VEHICULAR FORK LIFT),
200mm THICK INTERIOR SLAB

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

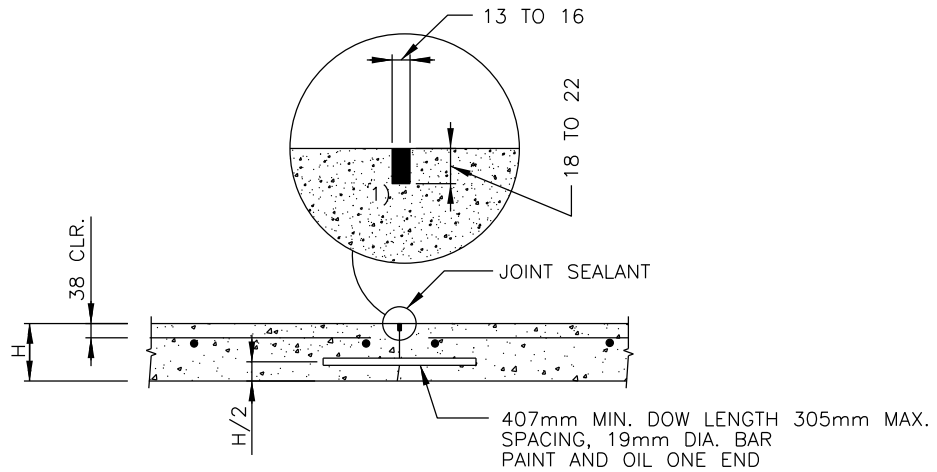
TYPICAL CONCRETE SLAB CONTROL JOINTS - 2

OMA SPEC

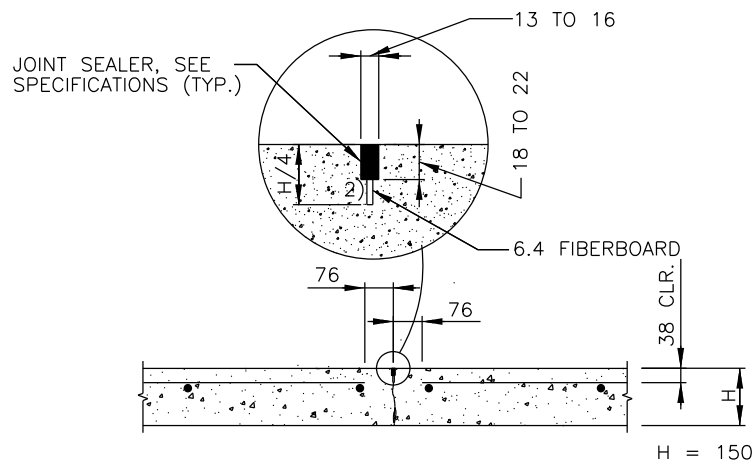
033000

DWG NO.

A - 131



A CONSTRUCTION JOINT (C.J.)



B CONTRACTION JOINT (CTJ.)

NOTE:

- 1) NON-ABSORBTIVE MATERIAL REQUIRED TO PREVENT BOND.
- 2) NON-ABSORBTIVE SEPARATION MEDIUM WILL BE USED BETWEEN JOINT SEALANT AND UNDERLYING MATERIAL

TYP. SLAB CONTROL JOINTS (VEHICULAR FORK LIFT),
150mm THICK INTERIOR SLAB

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

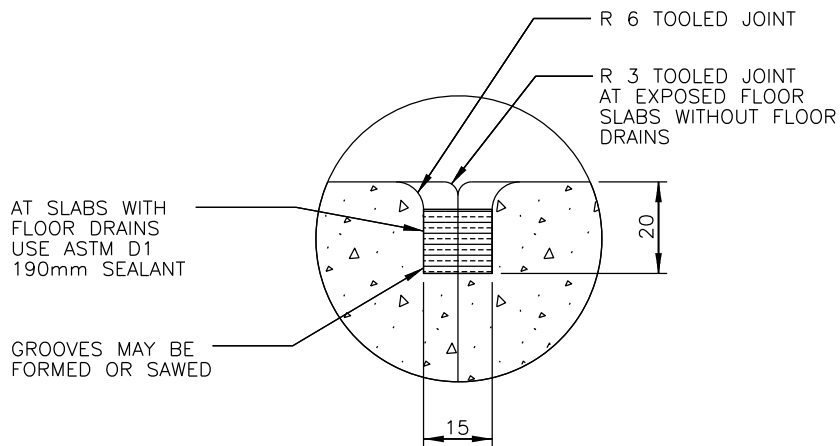
DWG NO.

TITLE

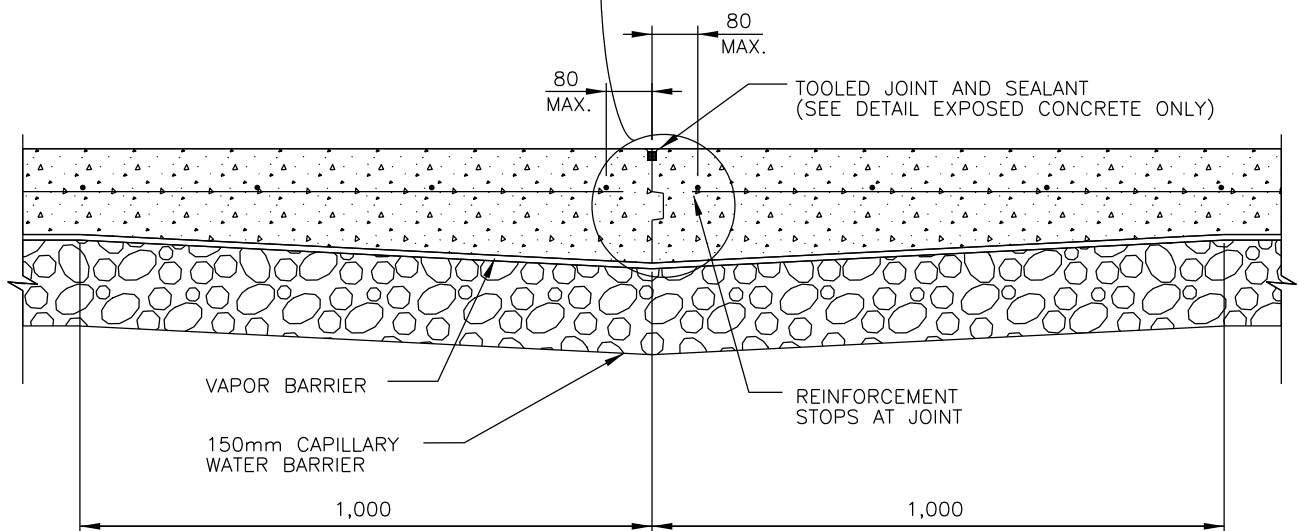
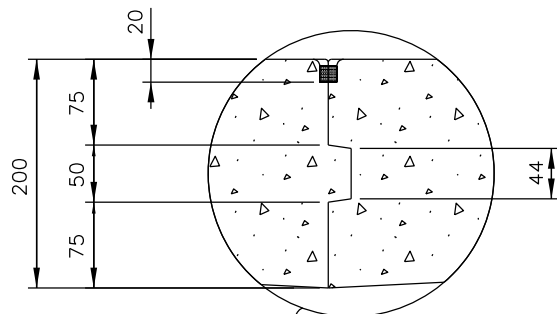
TYPICAL CONCRETE SLAB CONTROL JOINTS - 3

033000

A - 132



A TOOLED JOINT AND SEALANT



S.O.G. CONSTRUCTION JOINT

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

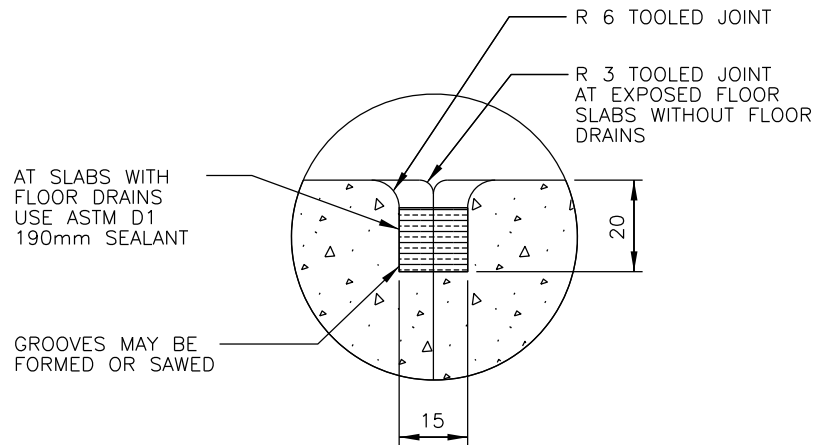
SLAB ON GRADE CONSTRUCTION JOINT
(KEYED OPTION)

OMA SPEC

033000

DWG NO.

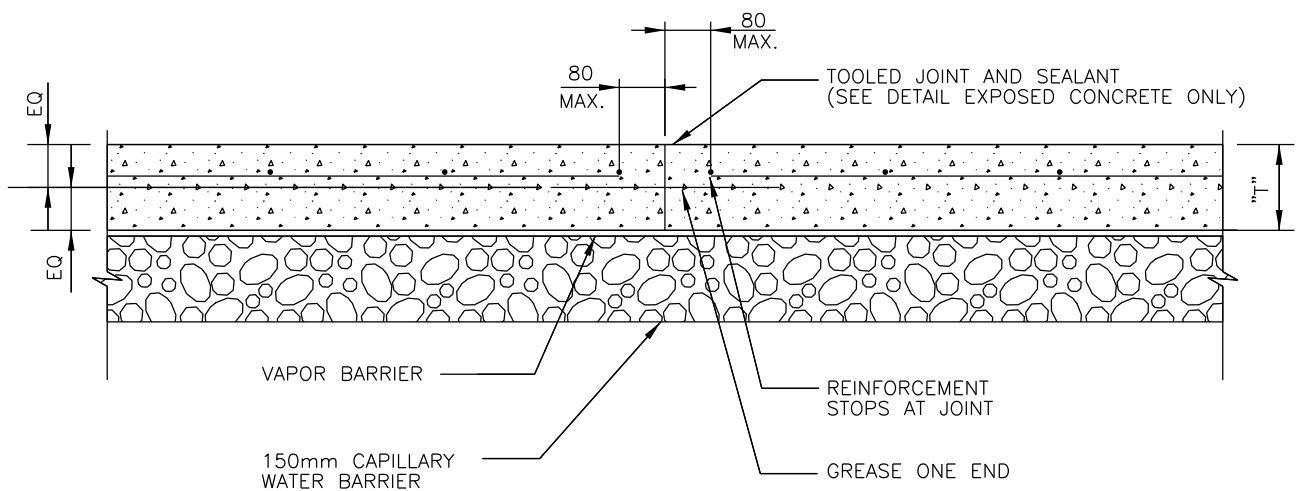
A - 133



(A) TOOLED JOINT AND SEALANT

NOTE FOR DOWEL :

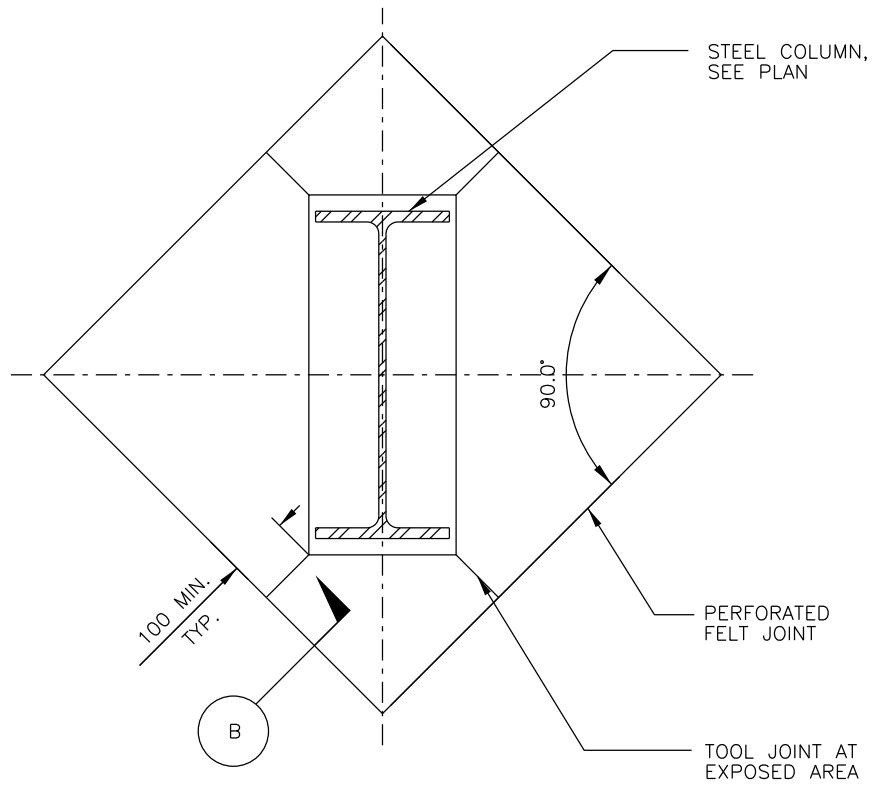
FOR SLABS WITH WHEEL LOADING	FOR OTHER SLABS
20 mm DIA. x 400 mm LONG AT 300 mm OC. FOR $T < 200$	20 mm DIA. x 400 mm LONG AT 400 mm OC. FOR $T = 100$ AND 125
25 mm DIA. x 450 mm LONG AT 300 mm OC. FOR $200 \leq T < 280$	AT 300 mm OC. FOR $125 < T < 200$



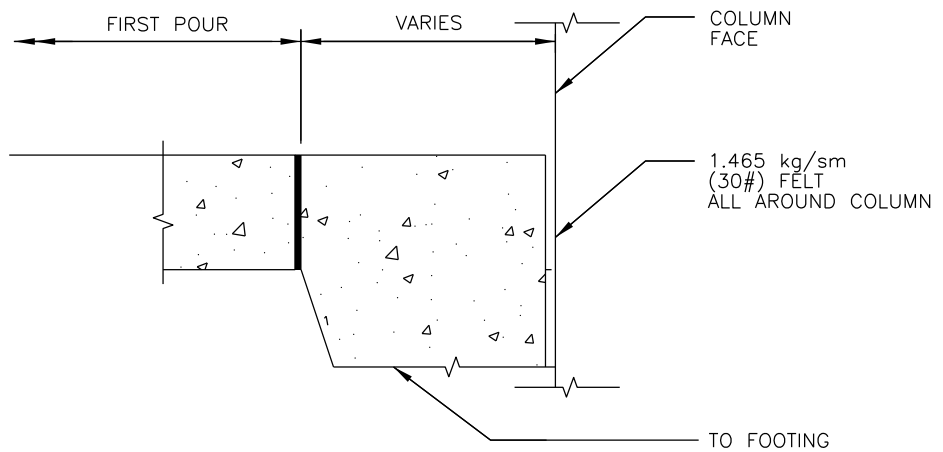
S.O.G. CONSTRUCTION JOINT

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	SLAB ON GRADE CONSTRUCTION JOINT (DOWELED OPTION)	033000	A - 134



A PLAN

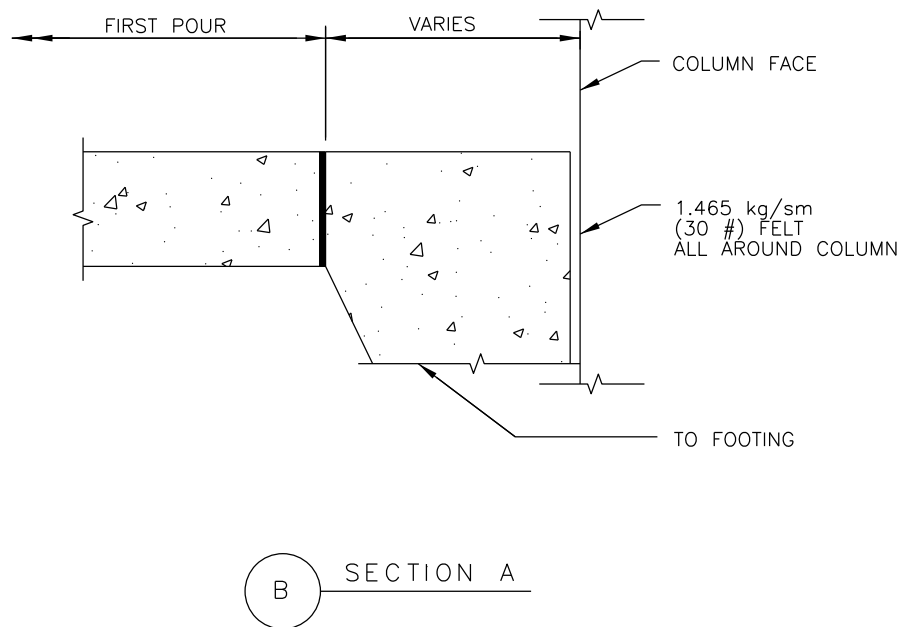
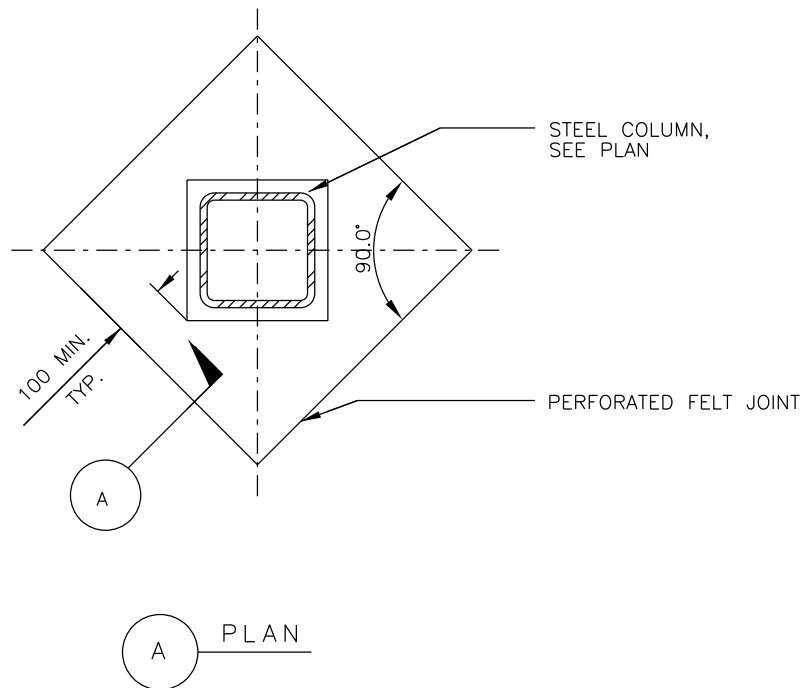


B SECTION

TYP. SOG. FLOOR ISOLATION JOINT AT COLUMN

NOT TO SCALE

 <p>IMCOM</p>	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL SLAB ON GRADE FLOOR ISOLATION JOINT AT COLUMN - 1	033000	A - 135

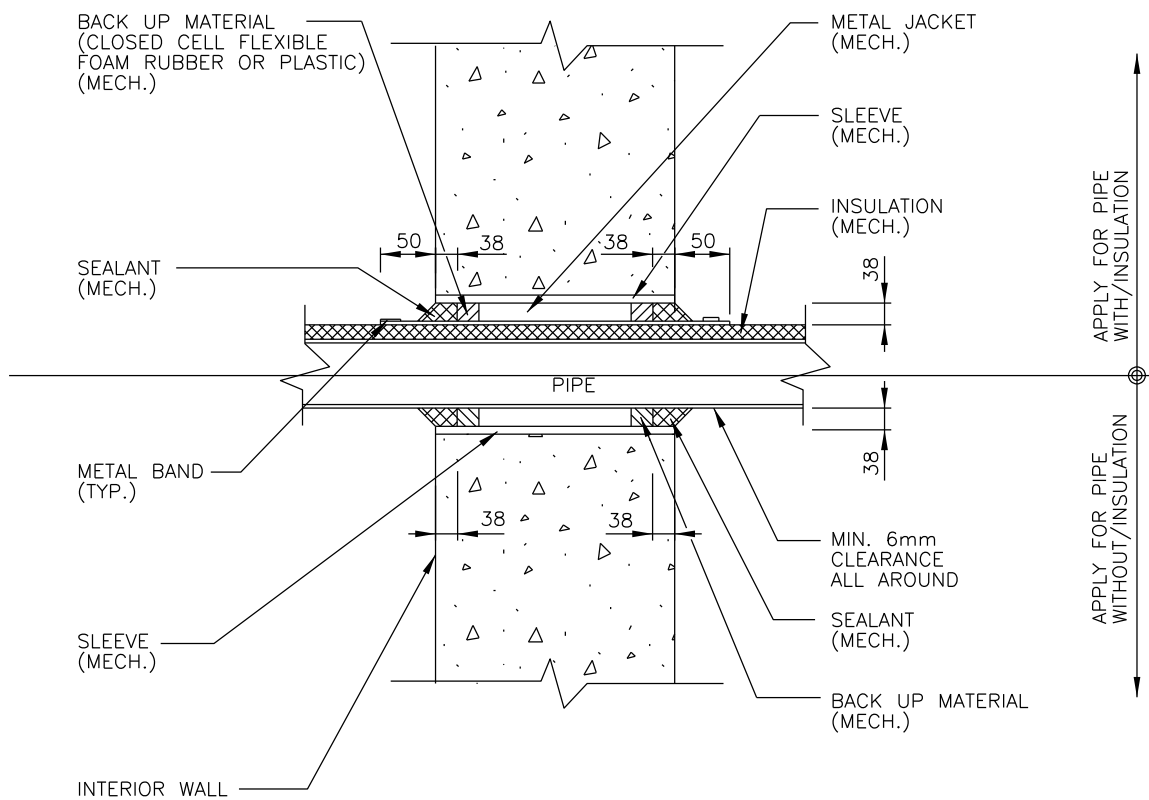


TYP. SOG. FLOOR ISOLATION JOINT AT COLUMN

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL SLAB ON GRADE FLOOR ISOLATION JOINT AT COLUMN - 2	033000	A - 136

REV DATE: NOV 2015

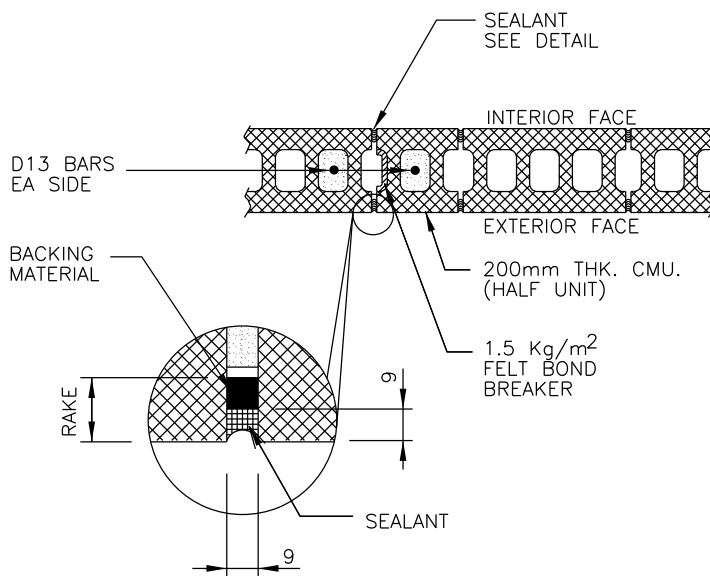
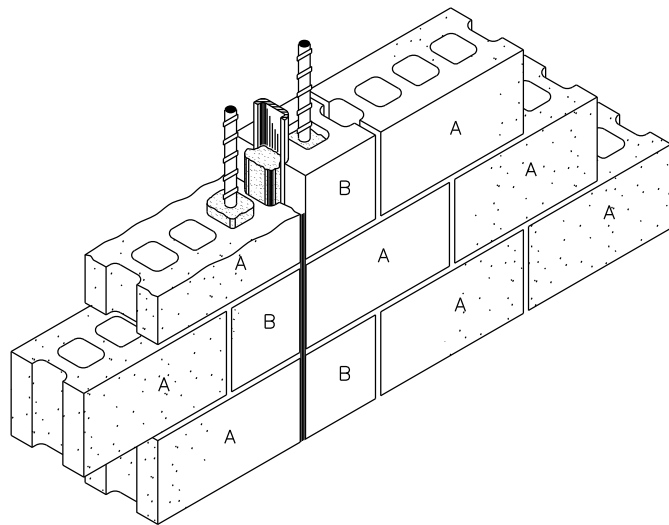


NOTE :
(MECH.) -> MECHANICAL SCOPE OF WORK

PIPE SLEEVE

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PIPE SLEEVE	033000	A - 137



LEGEND
A : FULL UNIT
B : HALF UNIT

TYPICAL CONTROL JOINT
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

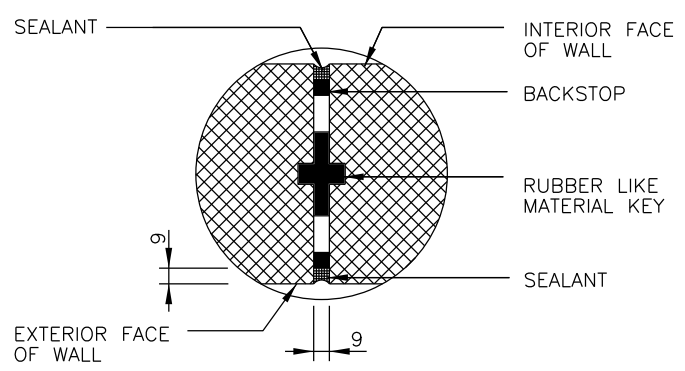
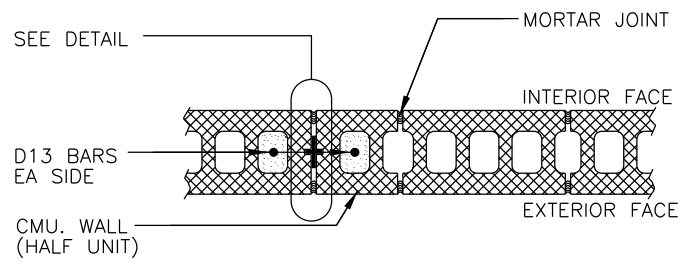
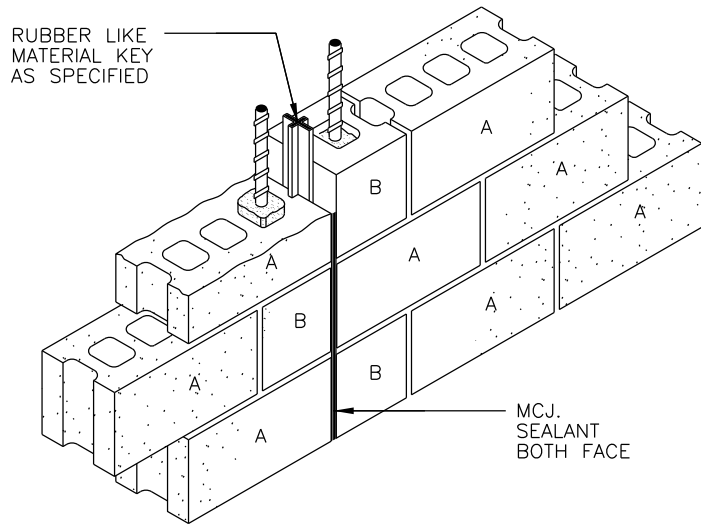
DWG NO.

TITLE

TYPICAL CONTROL JOINT (CMJ.) FOR CMU WALLS - 1

042000

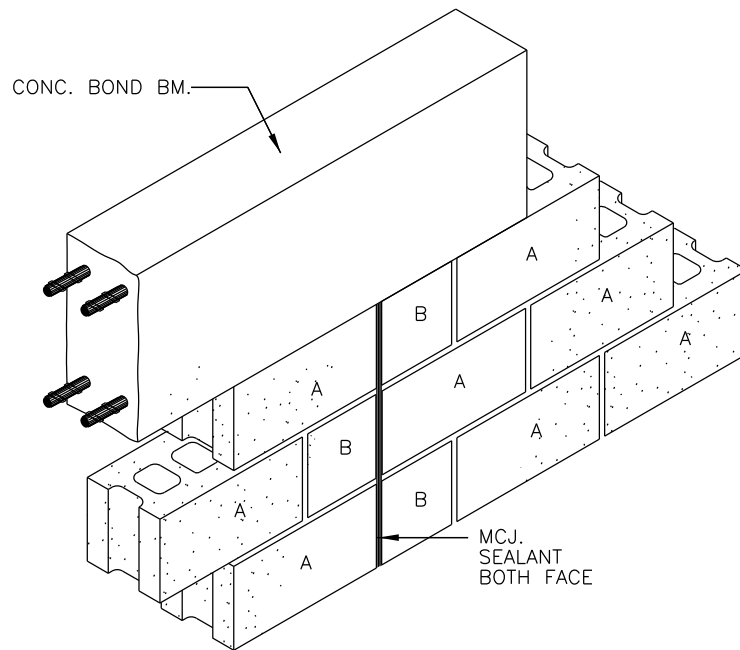
A - 201



LEGEND
 A : FULL UNIT
 B : HALF UNIT

TYPICAL CONTROL JOINT
 NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL CONTROL JOINT (CMJ.) FOR CMU WALLS - 2	042000	A - 202



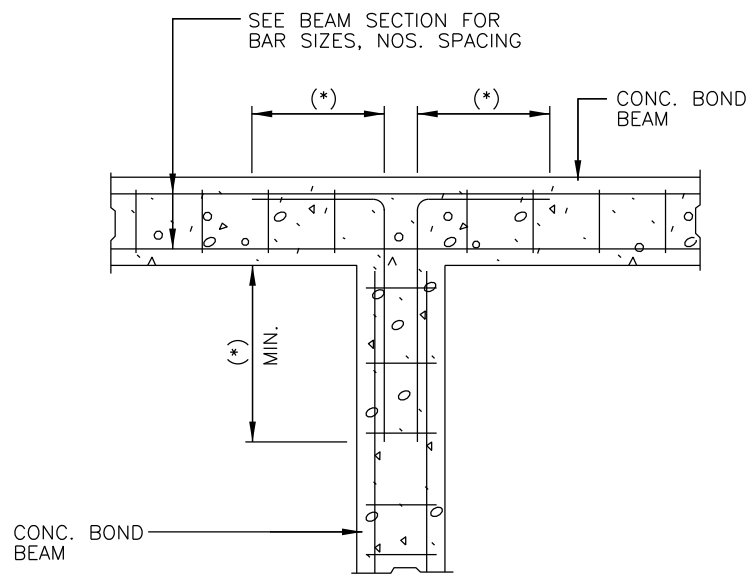
LEGEND
 A : FULL UNIT
 B : HALF UNIT

NOTE :
 CONTROL JOINT SHALL BE DISCONTINUED
 AT CONCRETE BOND BEAM

TYPICAL CONTROL JOINT
 NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL CONTROL JOINT (CMJ.) FOR CMU WALLS - 3	042000	A - 203

REV DATE: NOV 2015



(*) 40d OR 600mm WHICHEVER IS GREATER

CONC. BOND BEAM

NOT TO SCALE



IMCOM

O&MA STANDARD DETAILS, KOREA

TITLE

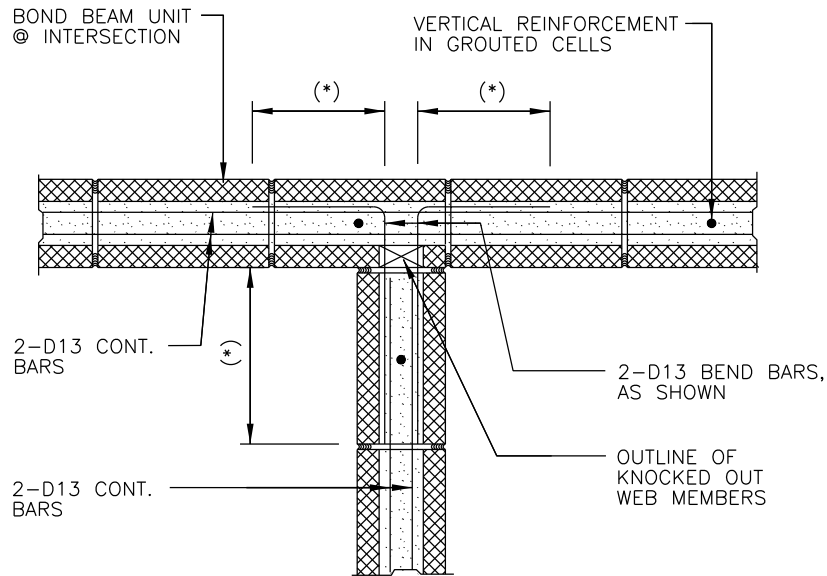
TYPICAL BAR BEND FOR CONC. WALL

OMA SPEC

042000

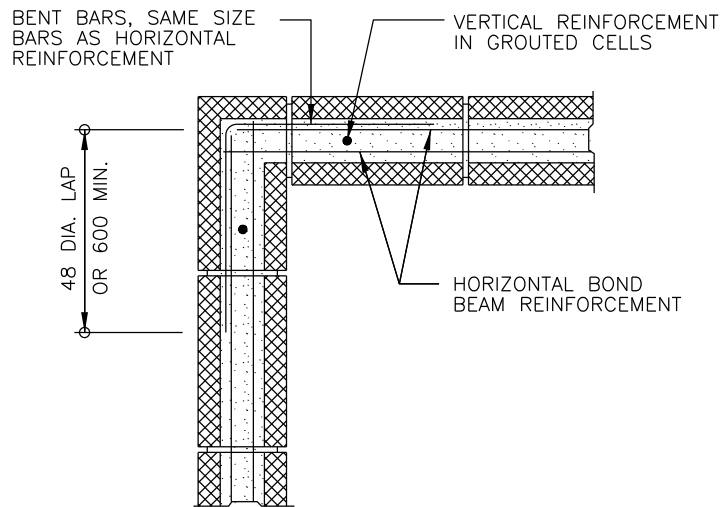
DWG NO.

A - 204



(*) 48d OR 600mm WHICHEVER IS GREATER

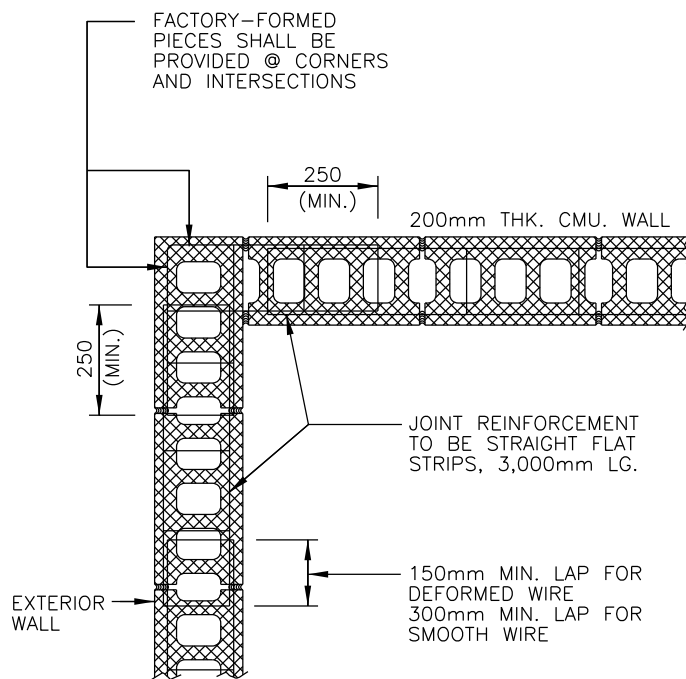
A CMU BOND BEAM BLOCKS



B CORNER OF CMU. BOND BEAM BLOCKS

TYPICAL BAR BEND
NOT TO SCALE

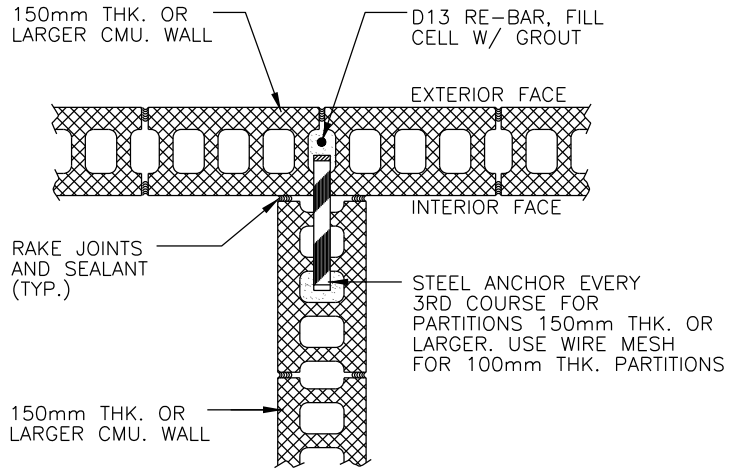
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL BAR BEND FOR CMU. WALLS	042000	A - 205



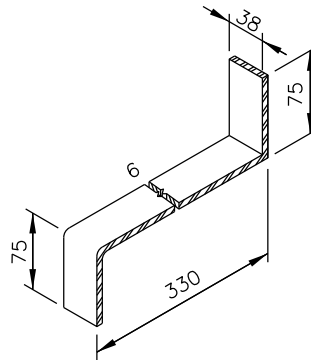
TYPICAL HORIZONTAL JOINT

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL HORIZONTAL JOINT REINF. FOR CMU. WALLS	042000	A - 206



FOR WALLS > 100mm THK.



TYPICAL CORNER OR INTERSECTION

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

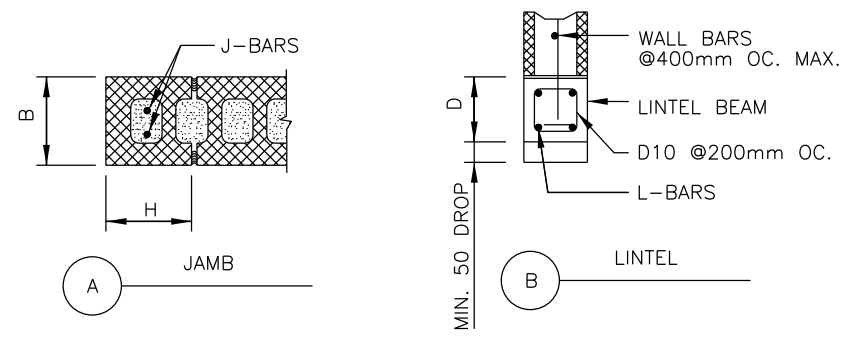
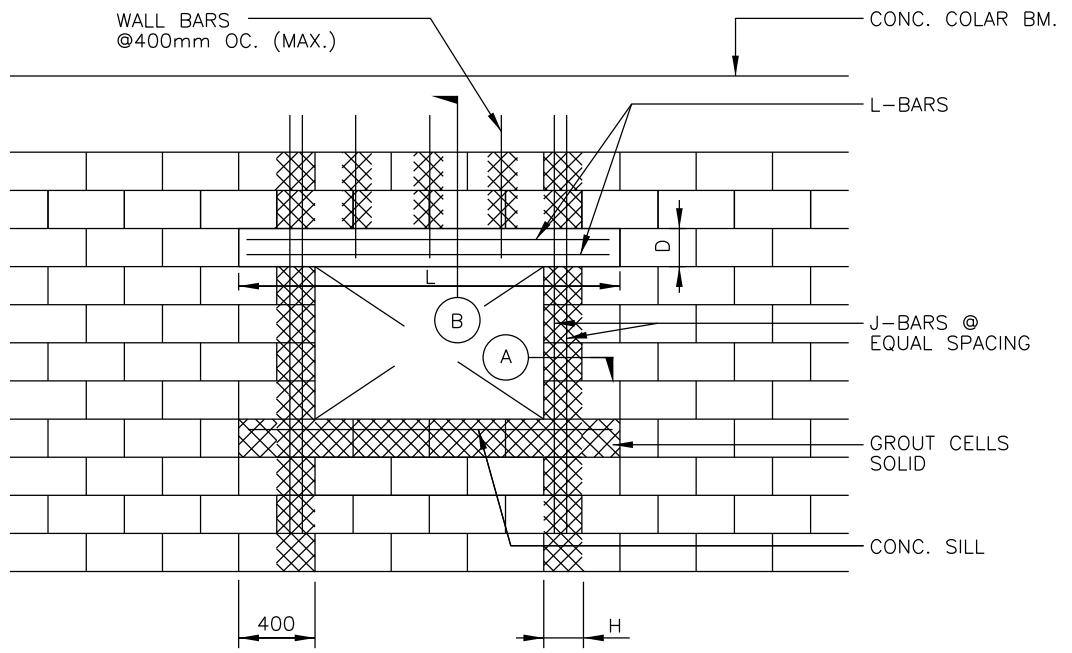
TYPICAL CMU. CORNER OR INTERSECTION DETAILS

OMA SPEC

042000

DWG NO.

A - 207

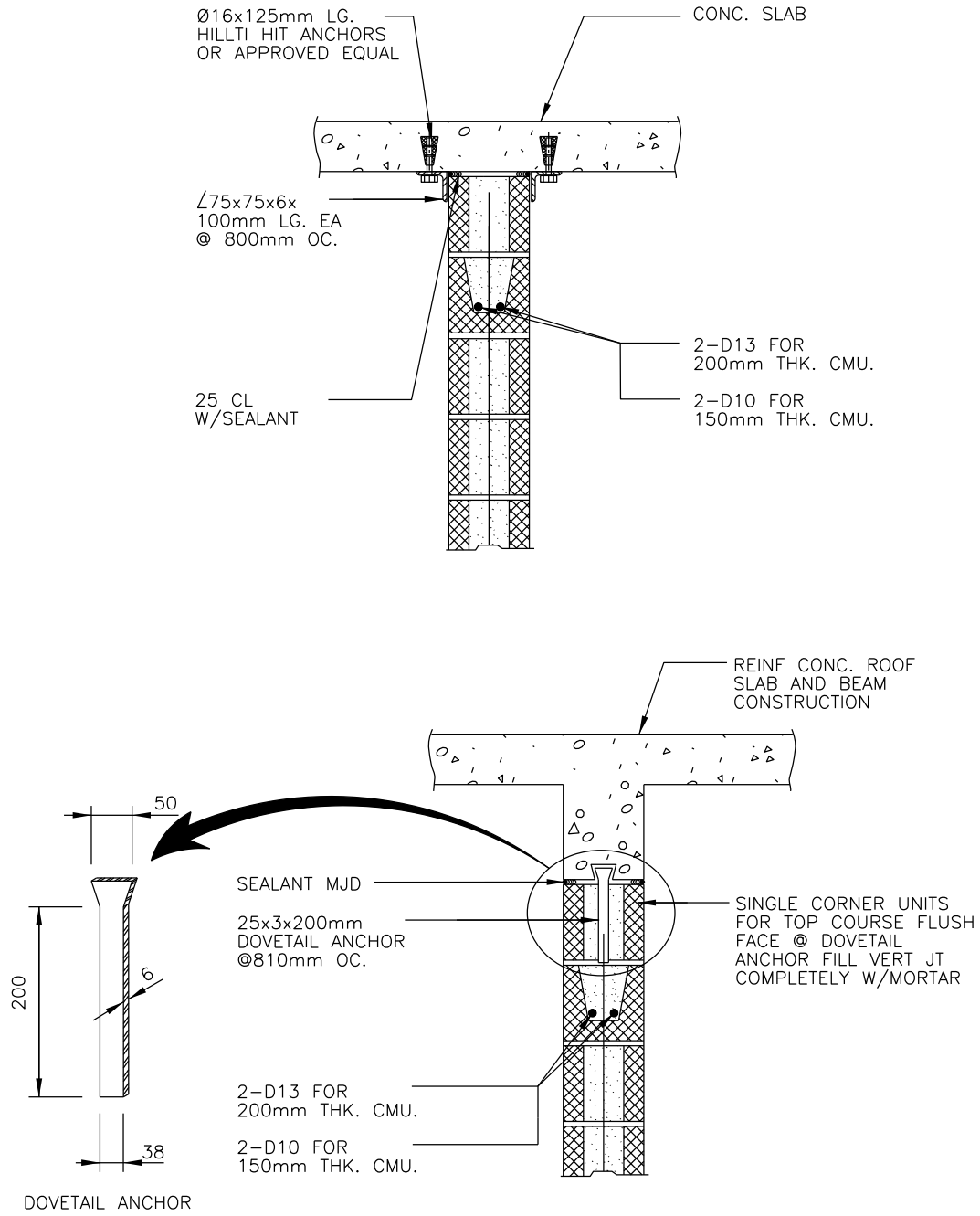


LINTEL SCHEDULE		
SPAN (L)	LINTEL DEPTH (D)	L-BARS
UP TO 1.6 m	200mm	2-D13 T&B w/ D10 □ @200mm
1.6 m TO 3.2 m	400mm	2-D13 T&B w/ D10 □ @200mm

JAMB SCHEDULE	
DIMENSIONS (BxH)(mm)	J-BARS
200x200	2-D13
150x200	2-D13

OPENING
NOT TO SCALE

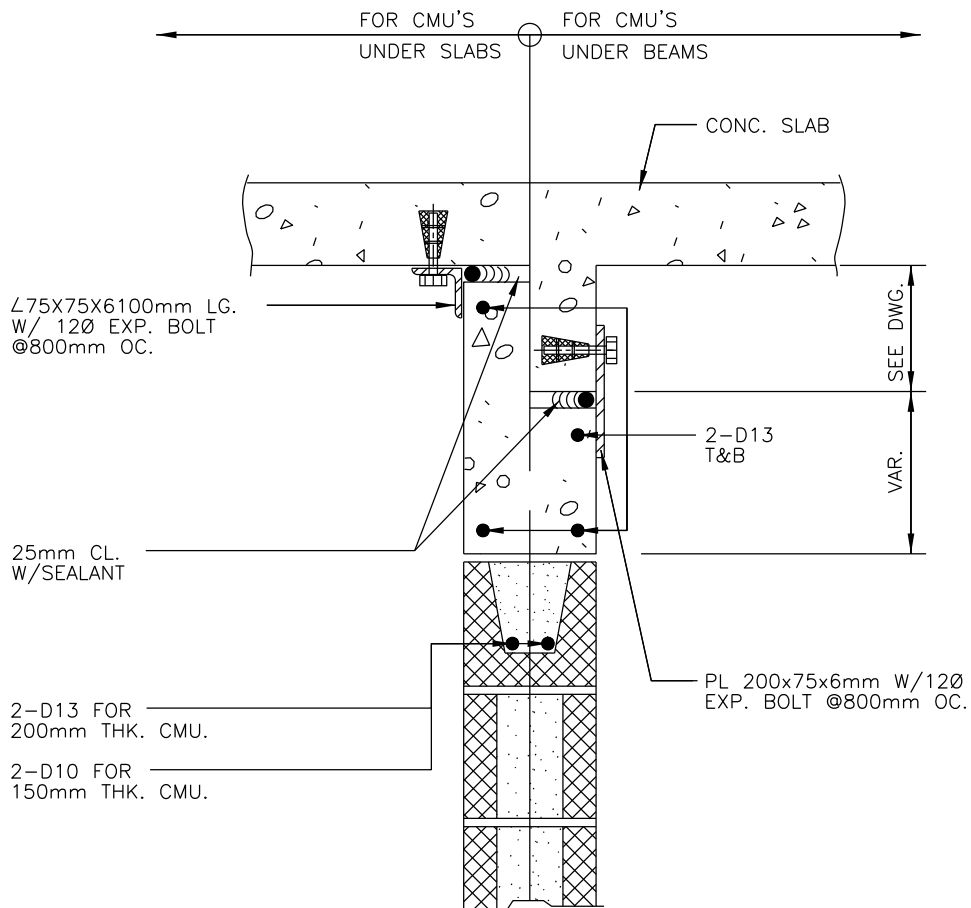
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL CMU. OPENING	042000	A - 208



(B) WHEN WALL HEIGHT MATCH BLOCK LAYER

TOP OF NON-LOAD BEARING CMU WALLS
NOT TO SCALE

 <p>IMCOM</p>	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL DETAIL FOR TOP OF NON-LOAD BEARING CMU WALLS - 1	042000	A - 209

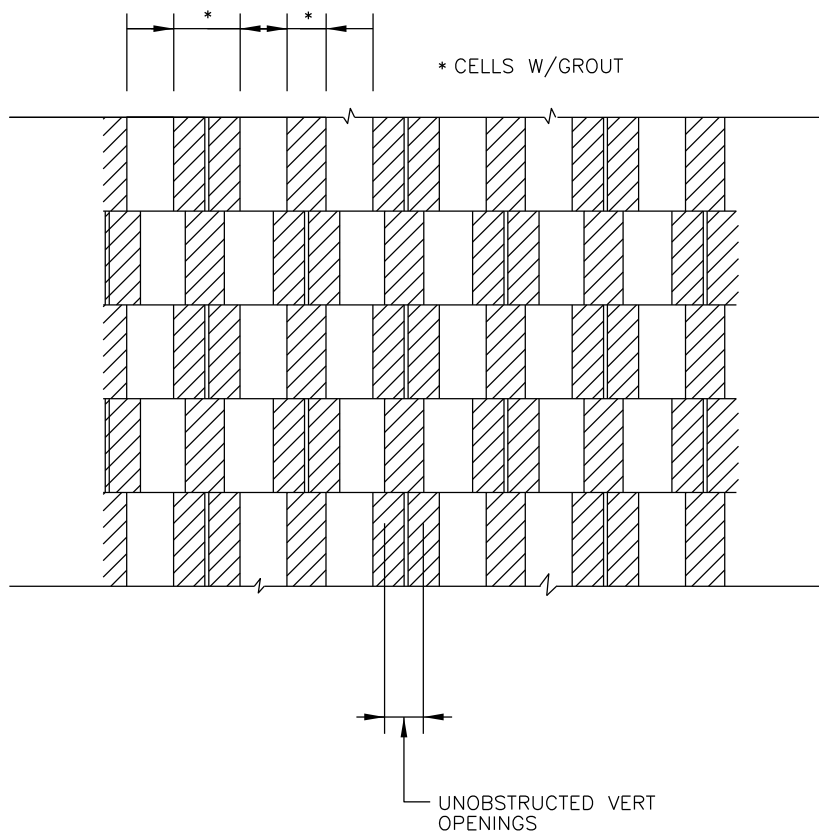


(A) WHEN WALL HEIGHT DOES NOT MATCH BLOCK LAYER

TOP OF NON-LOAD BEARING CMU WALLS

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL DETAIL FOR TOP OF NON-LOAD BEARING CMU WALLS - 2	042000	A - 210

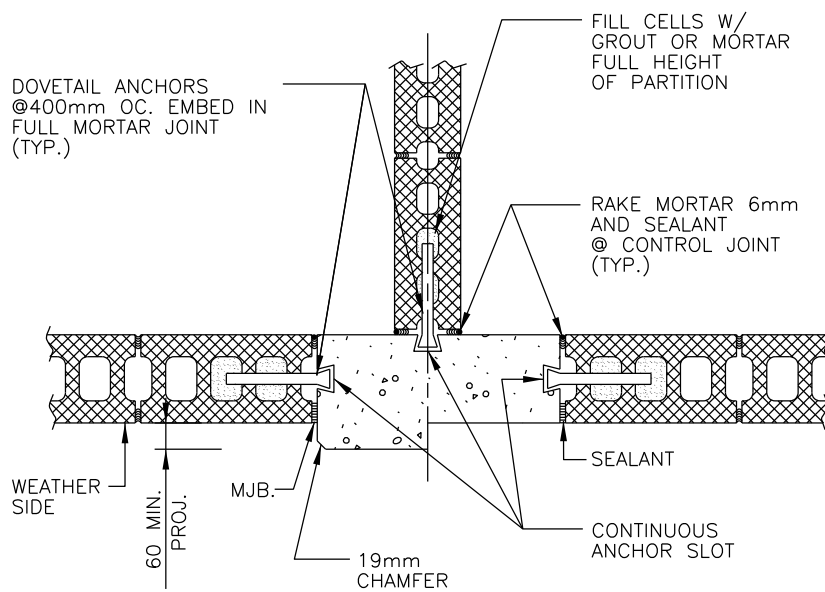


ELEVATION SHOWING CELL ALIGNMENT

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CMU. WALL ELEVATION SHOWING CELL ALIGNMENT	042000	A - 211

REV DATE: NOV 2015

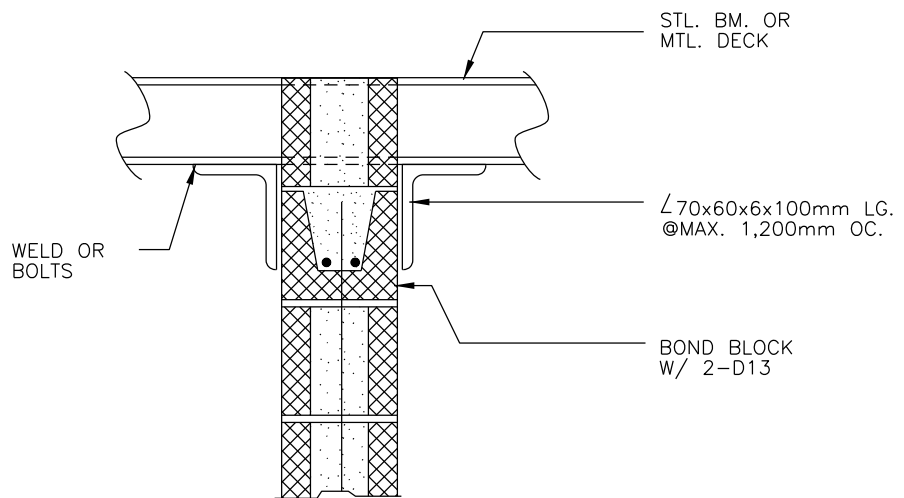


EXPOSED CONCRETE COLUMN

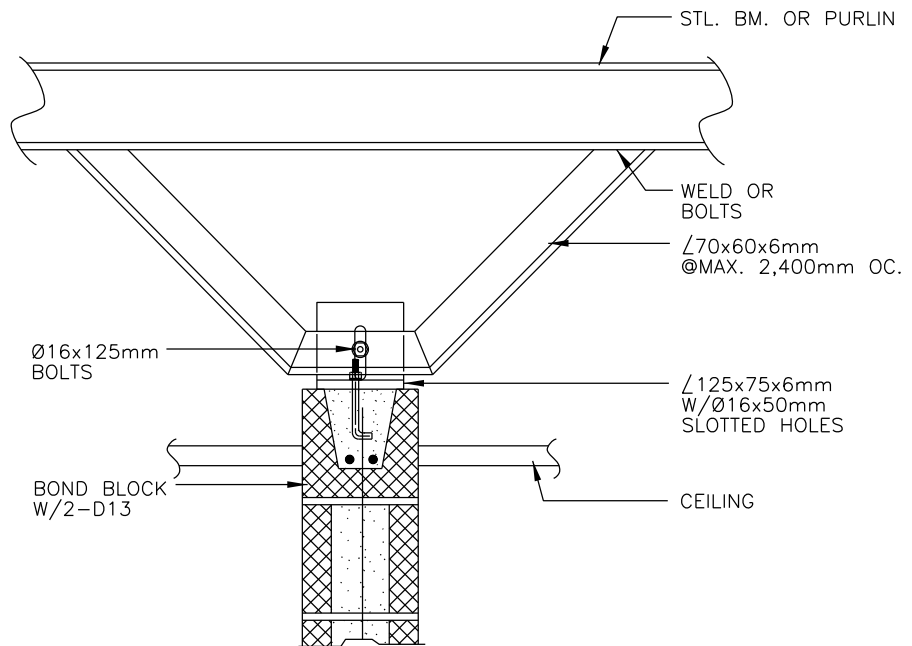
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	EXPOSED CONCRETE COLUMN FOR CMU. WALLS	042000	A - 212

REV DATE: NOV 2015



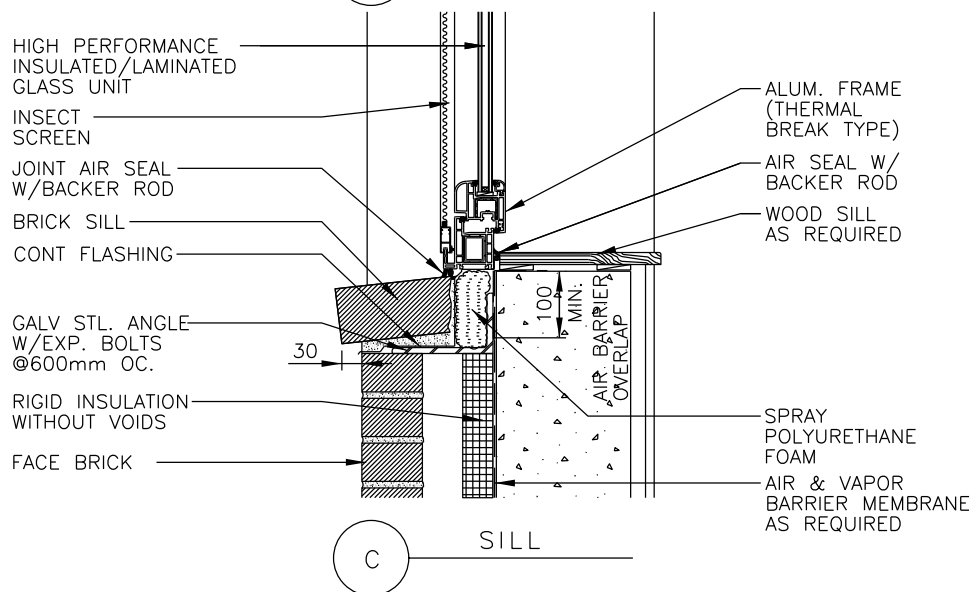
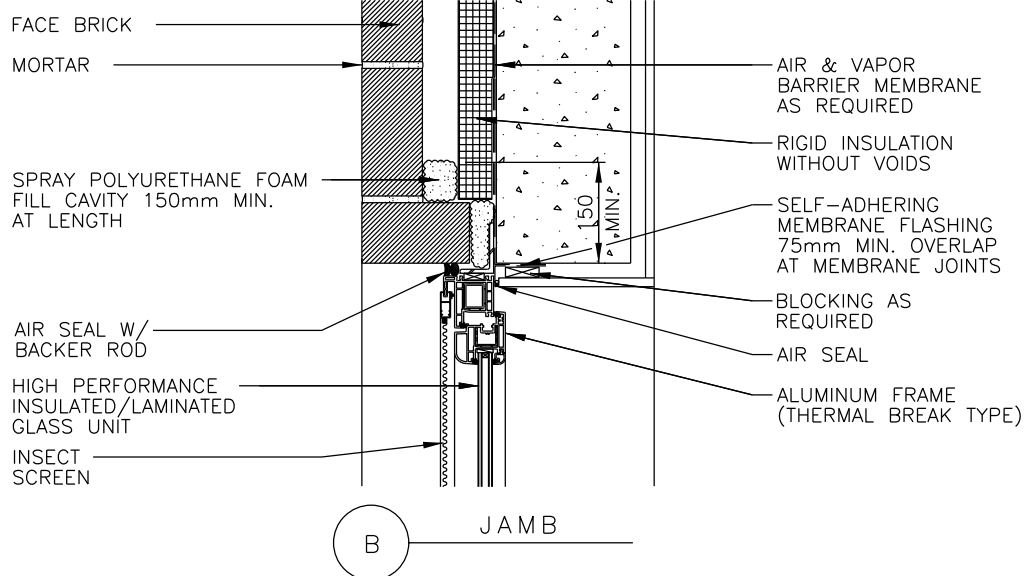
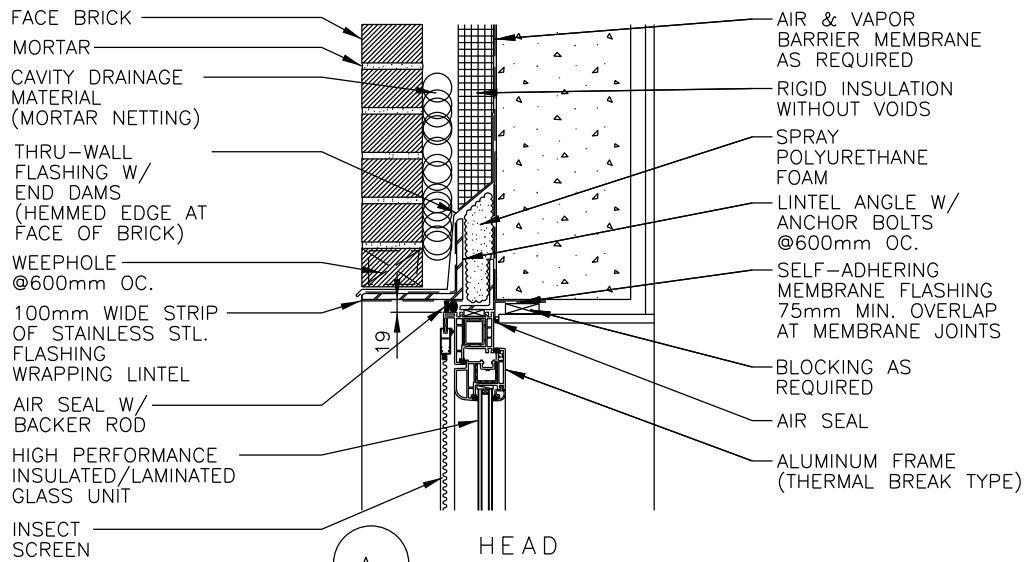
A WALL AT MECH. RM



B PARTITION WALL

NON-LOAD BEARING ANCHOR
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	NON-LOAD BEARING CMU. WALL ANCHOR	042000	A - 213



O&MA STANDARD DETAILS, KOREA

TITLE

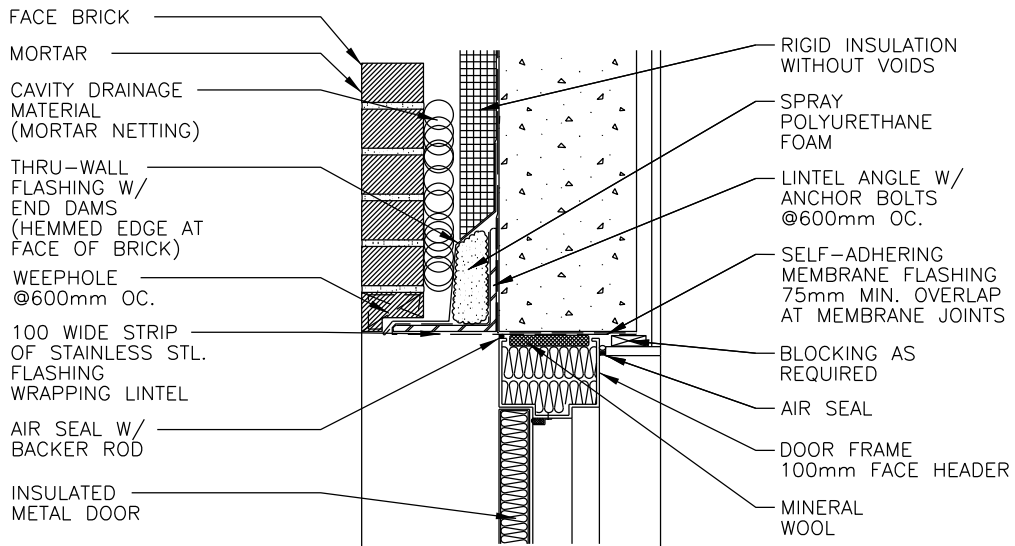
WINDOW DETAILS AT BRICK VENEER

OMA SPEC

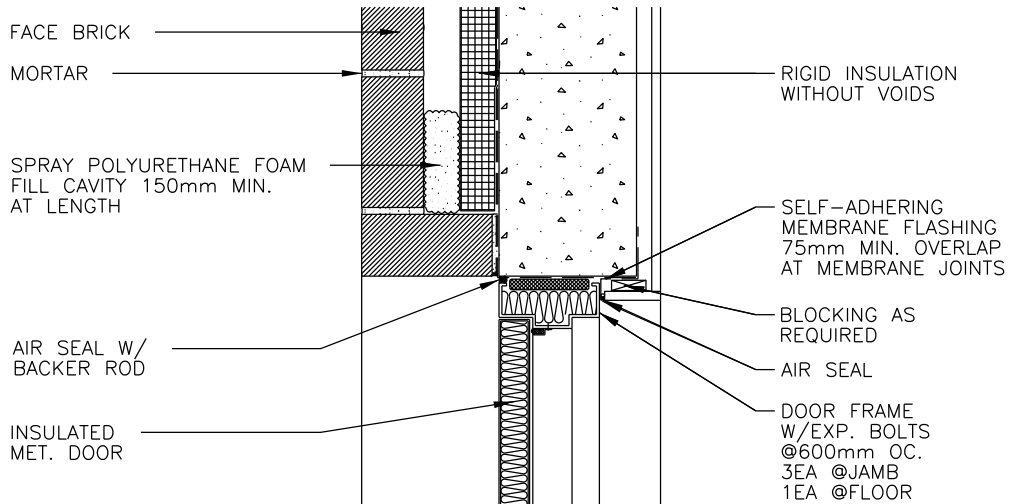
042000

DWG NO.

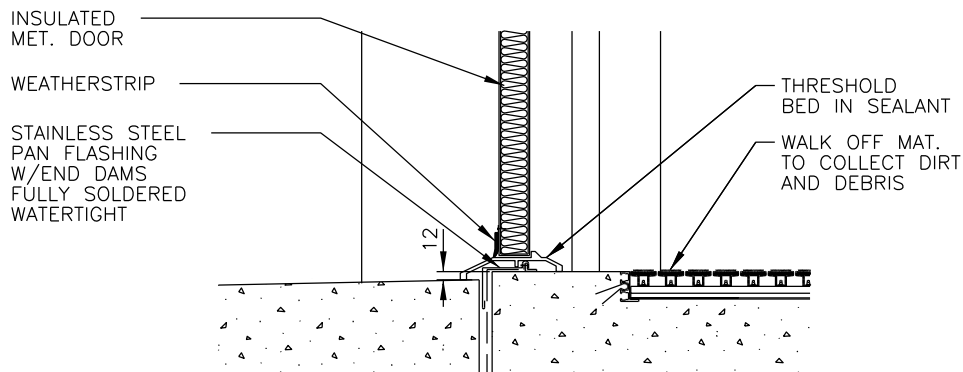
A - 214



A HEAD

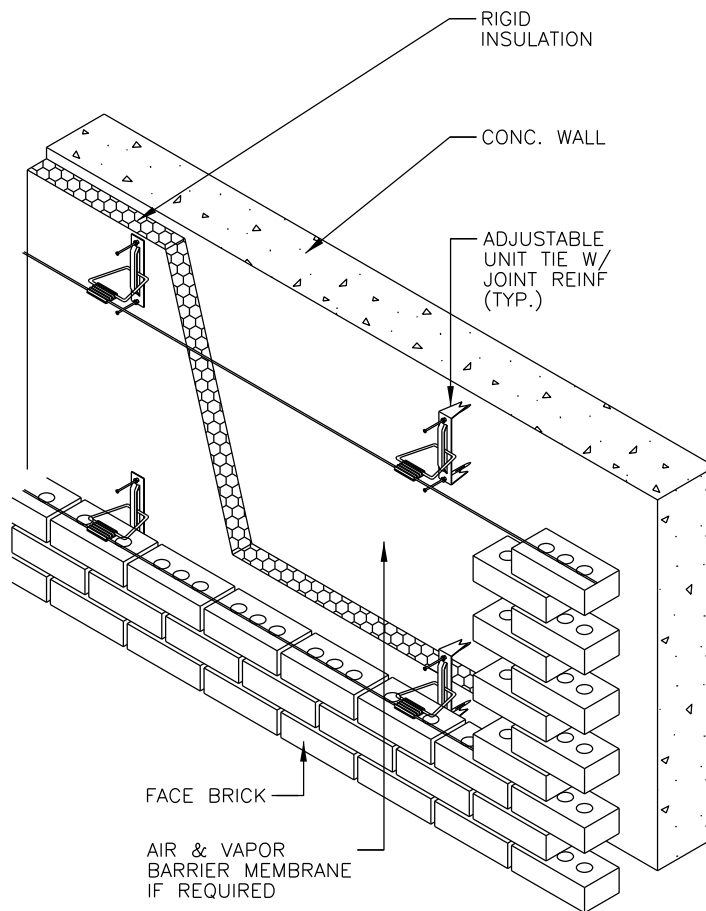


B JAMB



C SILL

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	EXTERIOR DOOR AT BRICK VENEER	042000	A - 215



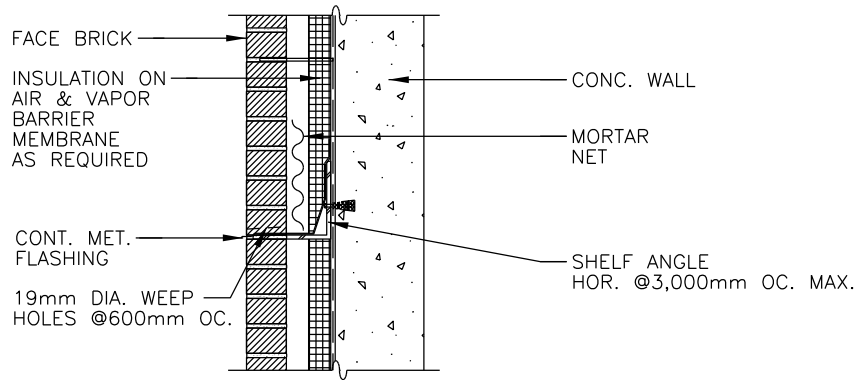
NOTES:

1. VERTICAL AND HORIZONTAL SPACING FOR WALL TIES SHALL BE IN ACCORDANCE WITH SPECIFICATIONS.
2. THE ADJUSTABLE TIES ARE NOT ALLOWED FOR SEISMIC DESIGN CATEGORIES D, E, & F PER 3-310-01. VERIFY THAT THE PROJECT(S) AREA NOT SEISMIC DESIGN CATEGORIES D, E, OR F, OR REVISE DETAIL.

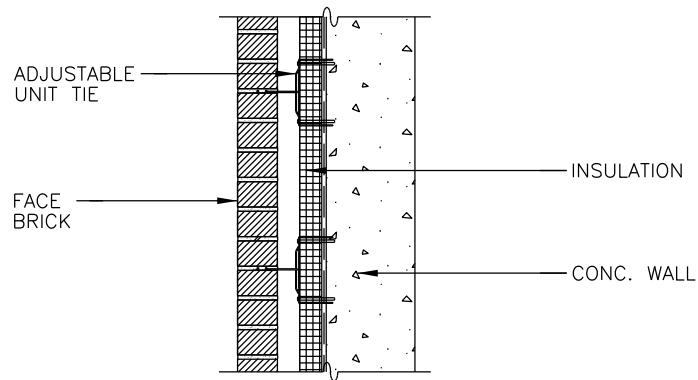
BRICK CONSTRUCTION ISOMETRIC

NOT TO SCALE

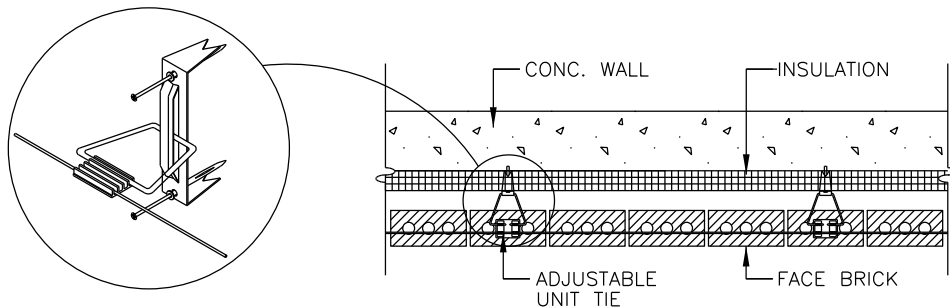
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	BRICK CONSTRUCTION ISOMETRIC	042000	A - 216



A SECTION @ SHELF ANGLE



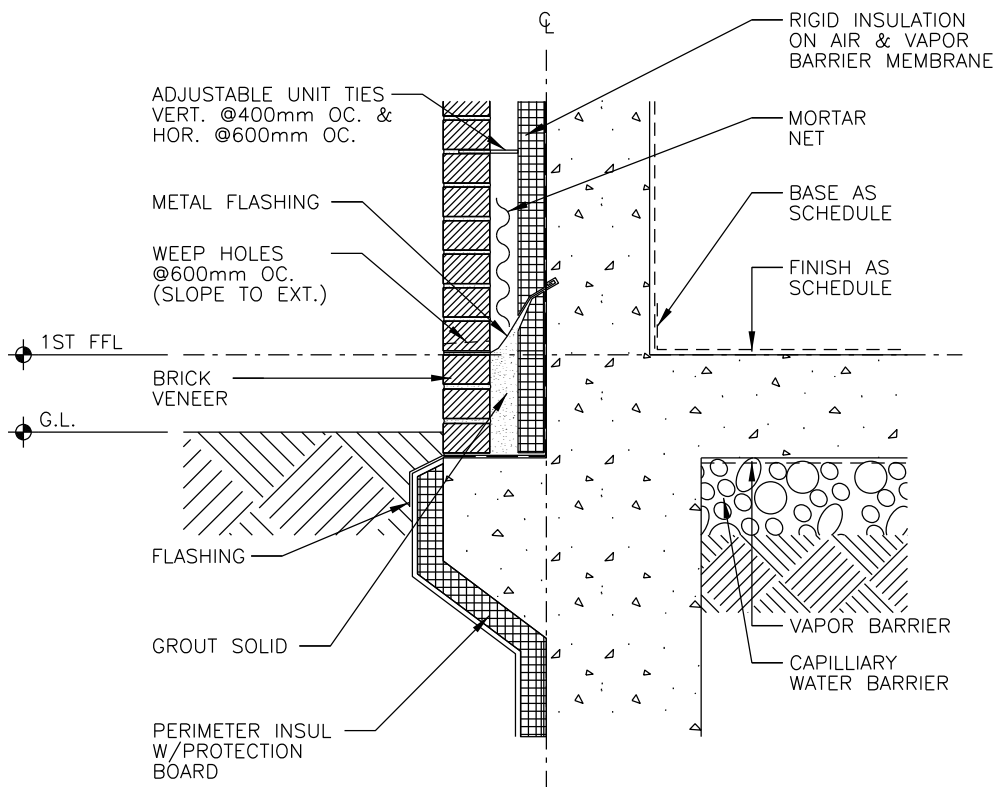
B SECTION @ WALL TIE



C PLAN

BRICK CONSTRUCTION
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	BRICK CONSTRUCTION TYPICAL DETAILS	042000	A - 217

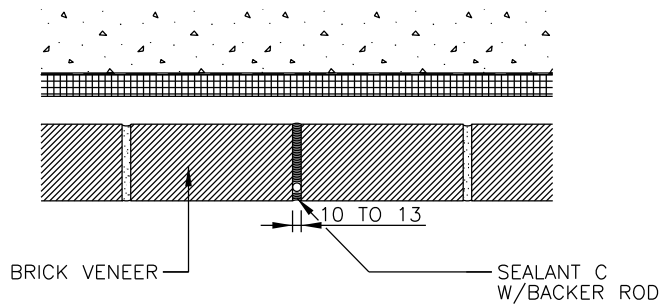


BRICK CONSTRUCTION

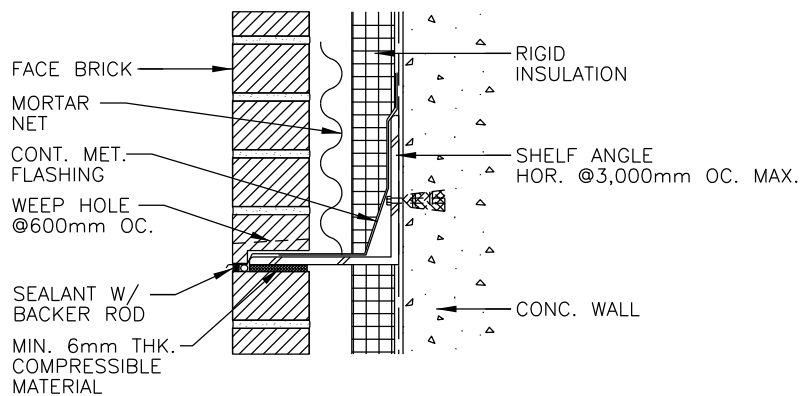
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	BRICK CONSTRUCTION WALL FOUNDATION	042000	A - 218

REV DATE: NOV 2015



A TYPICAL VERTICAL EXPANSION JOINT



B EXPANSION JOINT AT SHELF ANGLE

NOTES:

- VERTICAL EXPANSION JOINTS IN BRICK VENEER:
- FOR BRICKWORK WITHOUT OPENINGS, SPACE NO MORE THAN 7.5M OC.
 - FOR BRICKWORK WITH MULTIPLE OPENINGS, CONSIDER SYMMETRICAL PLACEMENT OF EXPANSION JOINTS AND REDUCED SPACING OF NO MORE THAN 6M O.C.
 - WHEN SPACING BETWEEN VERTICAL EXPANSION JOINTS IN PARAPETS IS MORE THAN 4.5M, MAKE EXPANSION JOINTS WIDER OR PLACE ADDITIONAL EXPANSION JOINTS HALFWAY BETWEEN FULL-HEIGHT EXPANSION JOINTS
 - PLACE AS FOLLOES:
 - AT OR NEAR CORNERS
 - AT OFFSETS AND SETBACKS
 - AT WALL INTERSECTIONS
 - AT CHANGES IN WALL HEIGHT
 - WHERE WALL BACKING SYSTEM CHANGES
 - WHERE SUPPORT OF BRICK VENEER CHANGES
 - WHERE WALL FUNCTION OR CLIMATIC EXPOSURE CHANGES
 - EXTEND TO TOP OF BRICKWORK, INCLUDING PARAPETS

- HORIZONTAL EXPANSION JOINTS IN BRICK VENEER:
- LOCATE IMMEDIATELY BELOW SHELF ANGLES
 - MINIMUM 6MM SPACE OR COMPRESSIBLE MATERIAL RECOMMENDED BELOW SHELF ANGLE
 - FOR BRICK INFILL, PLACE BETWEEN THE TOP OF BRICKWORK AND STRUCTURAL FRAME

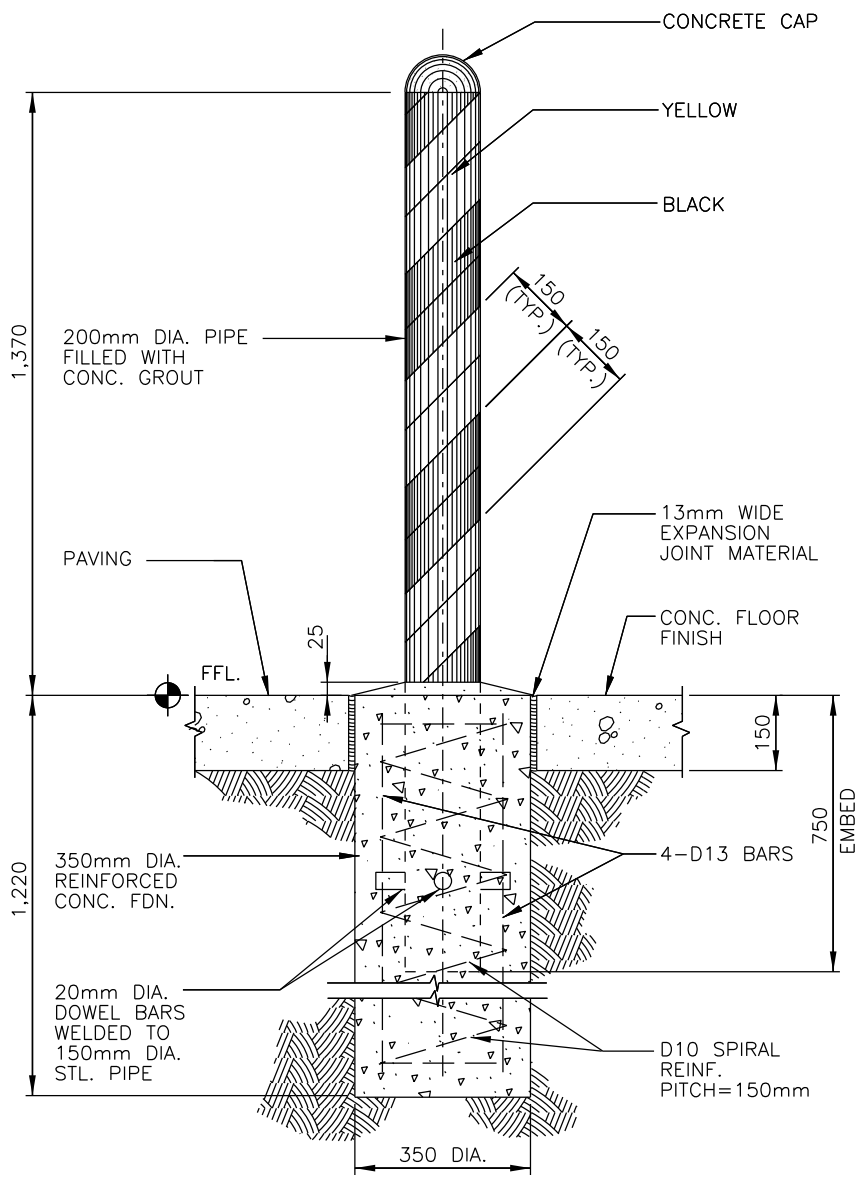
- BRICKWORK WITHOUT SHELF ANGLES:
- ACCOMMODATE BRICKWORK MOVEMENT BY:
 - PLACING EXPANSION JOINTS AROUND ELEMENTS THAT ARE RIGIDLY ATTACHED TO THE FRAME AND PROJECT INTO THE VENEER, SUCH AS WINDOWS AND DOOR FRAMES
 - INSTALLING METAL CAPS OR COPINGS THAT ALLOW INDEPENDENT VERTICAL MOVEMENT OF WYTHES
 - INSTALLING JAMB RECEPTORS THAT ALLOW INDEPENDENT MOVEMENT BETWEEN THE BRICK AND WINDOW FRAME
 - INSTALLING ADJUSTABLE ANCHORS OR TIES

BOND BREAKS:
USE BUILDING PAPER OR FLASHING TO SEPARATE BRICKWORK FROM DISSIMILAR MATERIAS, FOUNDATIONS AND SLABS

BRICK CONSTRUCTION EXPANSION JOINT

NOT TO SCALE

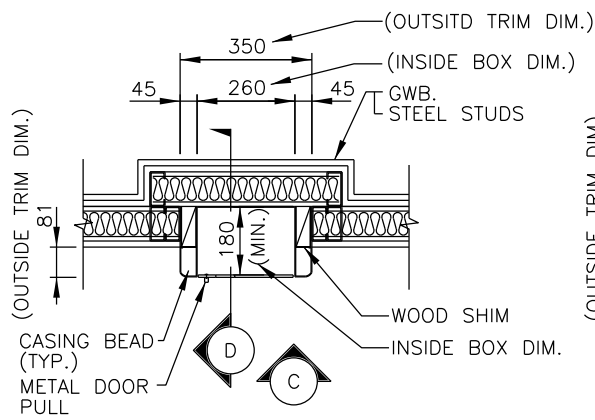
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	BRICK CONSTRUCTION EXPANSION JOINTS	042000	A - 219



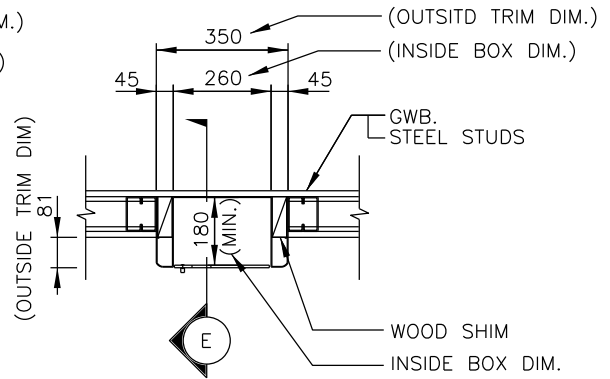
GUARD POST
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	GUARD POST DETAIL	055013	A - 301

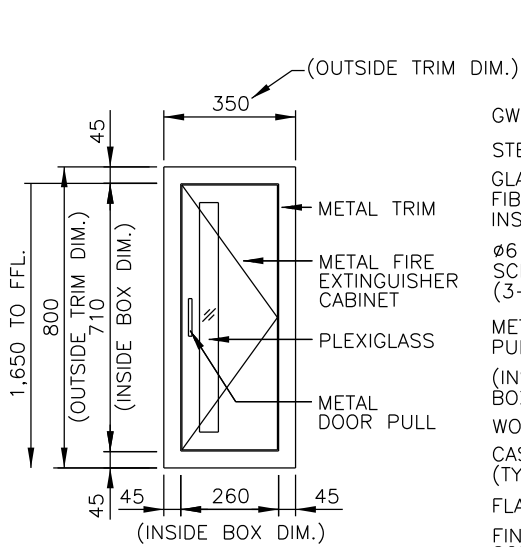
REV DATE: NOV 2015



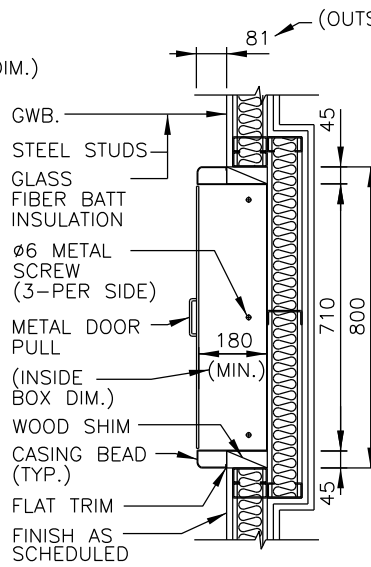
A PLAN (STC=50)



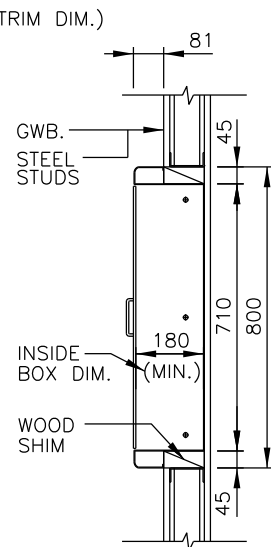
B PLAN (TYP.)



C ELEVATION



D SECTION (STC=50 or 1-HOUR FIRE RATING)

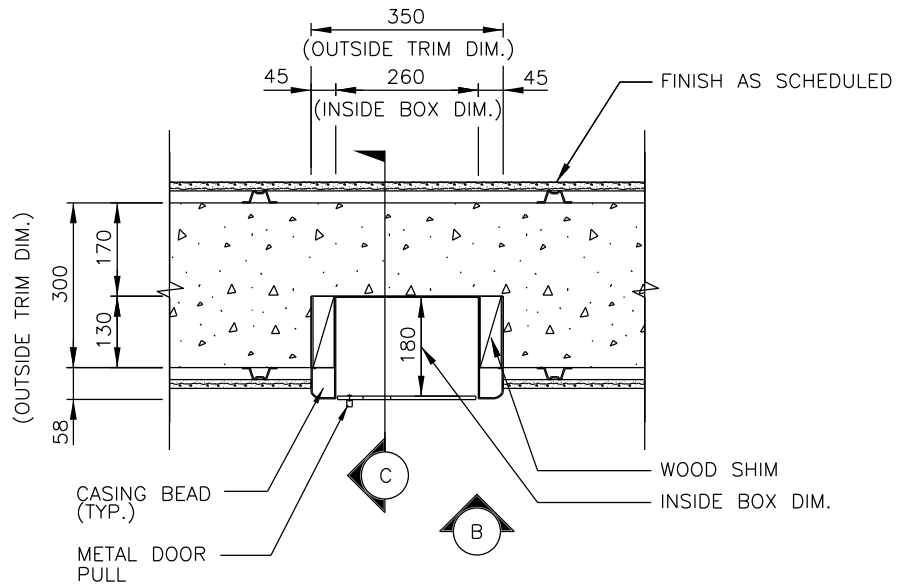


E SECTION (TYP.)

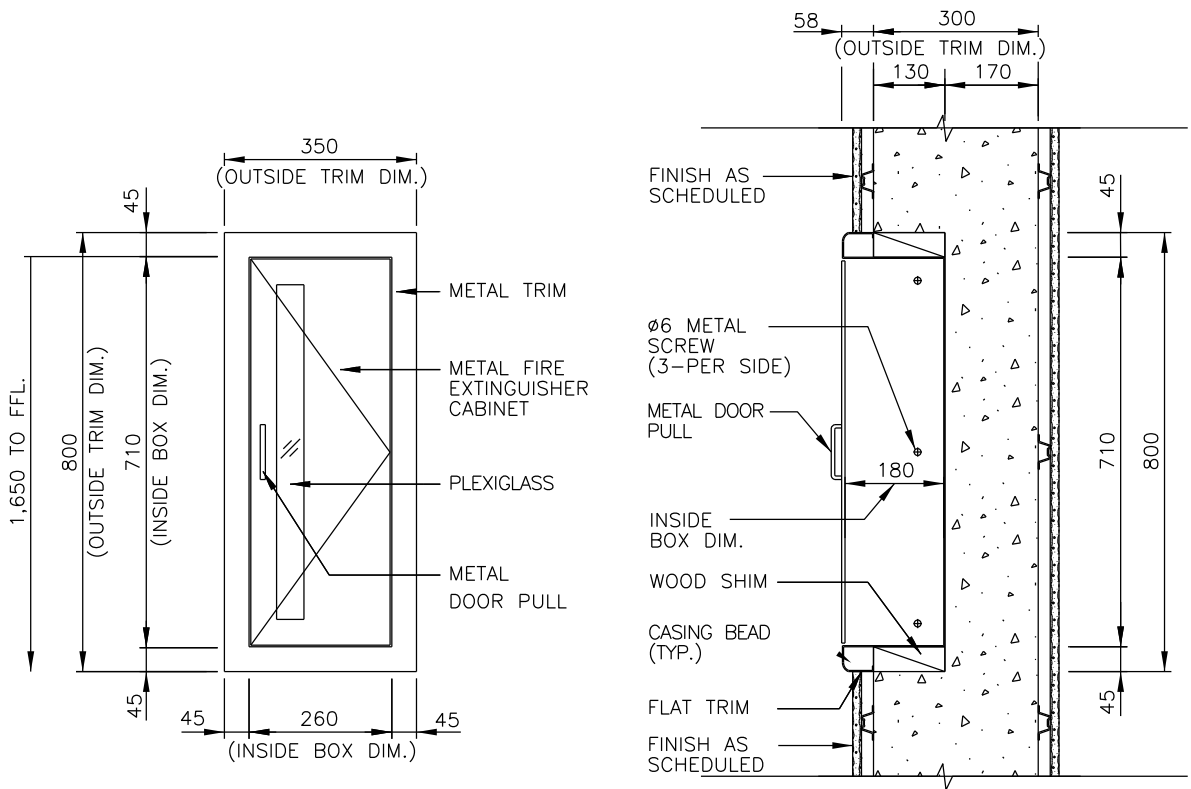
FIRE EXTINGUISHER CABINET

NOT TO SCALE

	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	FIRE EXTINGUISHER CABINET(DRY WALL)	055013	A - 302



A PLAN (TYP.)

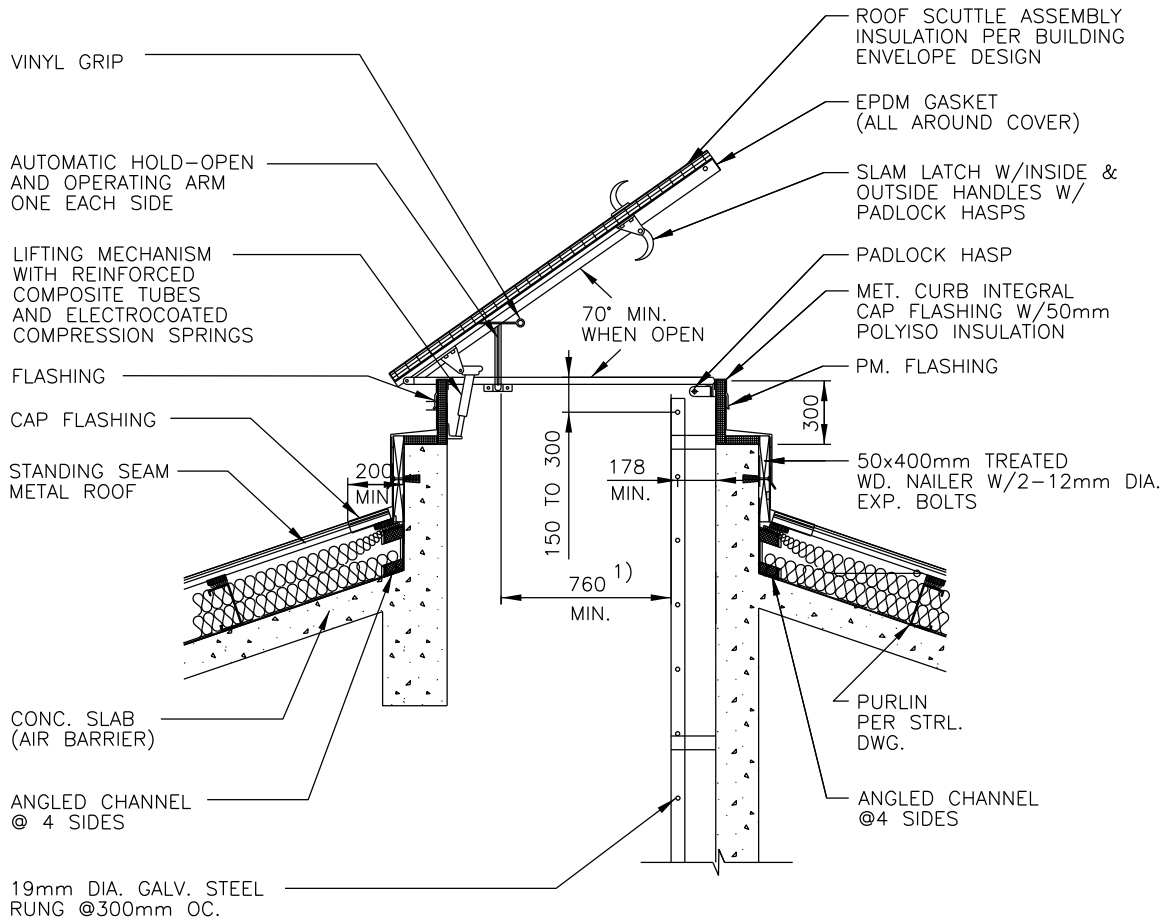


B ELEVATION

C SECTION (TYP.)

FIRE EXTINGUISHER CABINET
NOT TO SCALE

	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	FIRE EXTINGUISHER CABINET(CONC. WALL)	055013	A - 303



NOTE:

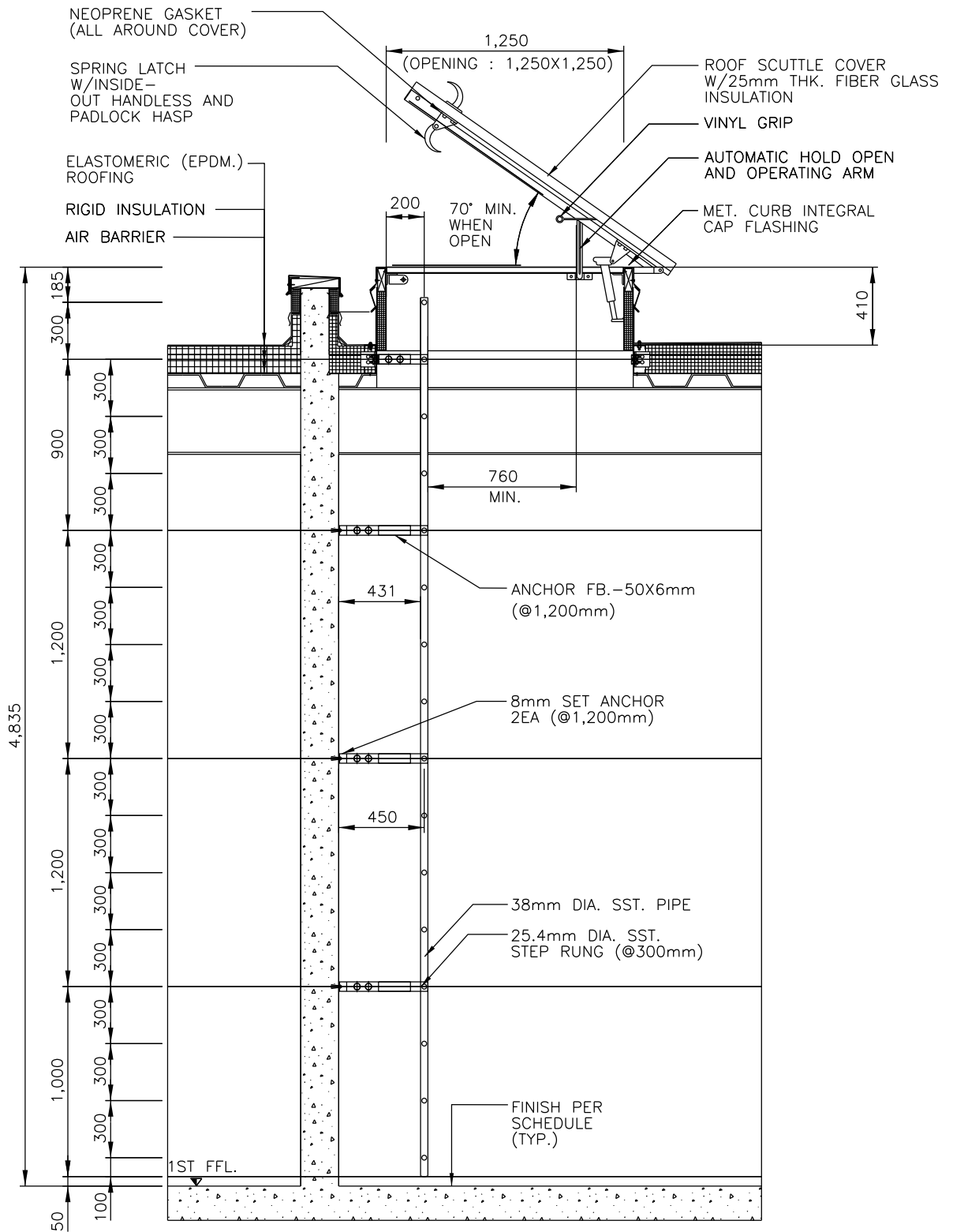
1) ROOF HATCH SHALL NOT BE LESS THAN 15m² IN AREA AND HAVING A MINIMUM DIMENSION OF 600mm.

ROOF SCUTTLE(SSRM.)

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	ROOF SCUTTLE - 1	055013	A - 304

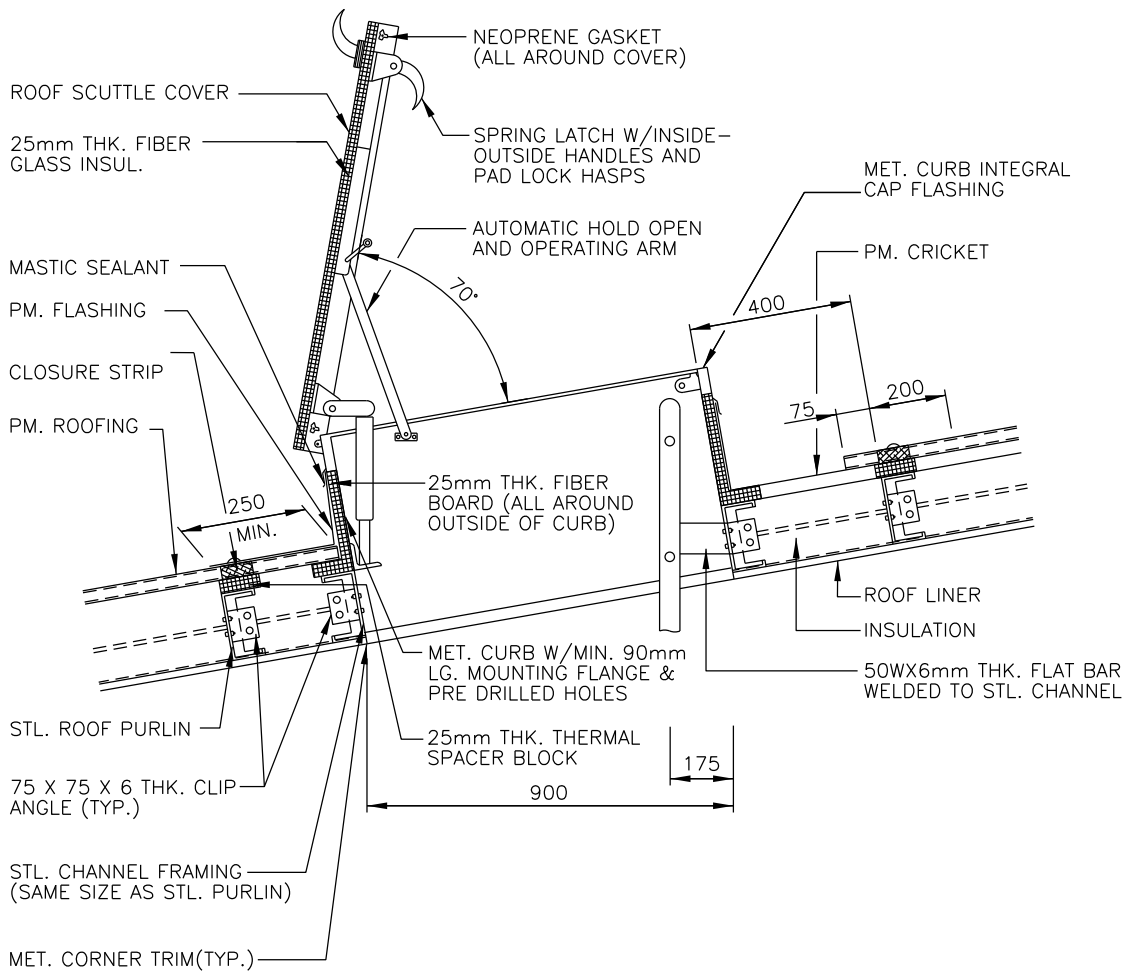
REV DATE: NOV 2015



ROOF SCUTTLE(EPDM.)

NOT TO SCALE

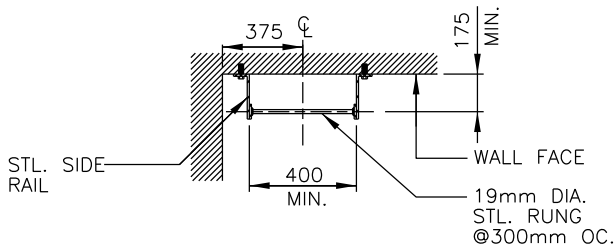
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	ROOF SCUTTLE - 2	055013	A - 305



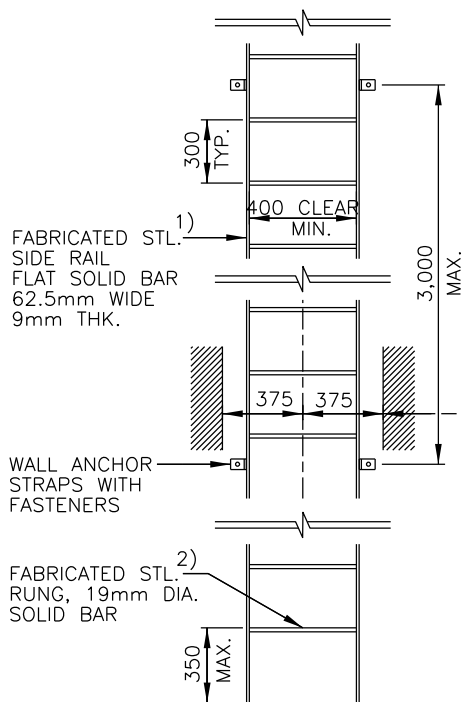
ROOF SCUTTLE(PM. ROOFING)

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	ROOF SCUTTLE - 3	055013	A - 306



A PLAN



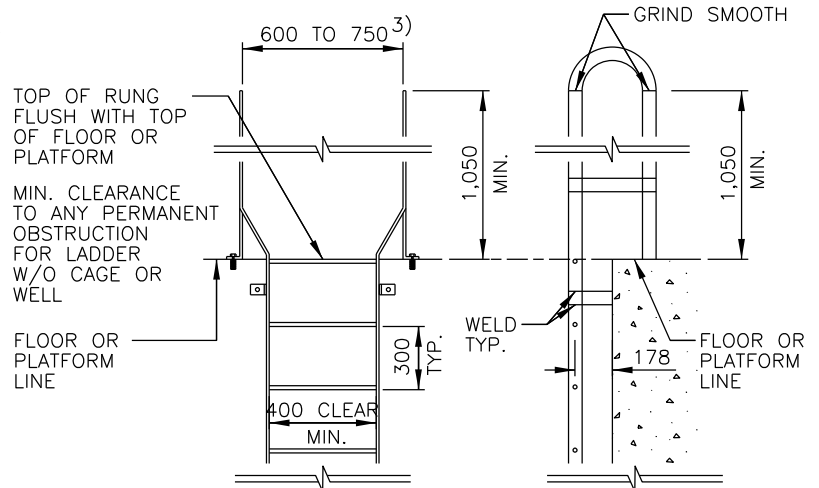
B ELEVATION

1) FOR LADDERS SUBJECT TO NORMAL ATMOSPHERIC EXPOSURES, FLAT SOLID BAR STOCK, 62.5mm WIDE BY 9mm THICK, OR THE EQUIVALENT IN STRENGTH IN SOLID OR HOLLOW SHAPES, IS REQUIRED. FOR LADDERS SUBJECT TO UNUSUAL ATMOSPHERIC EXPOSURES, FLAT SOLID BAR STOCK, 62.5mm WIDE BY 12.5mm THICK, OR THE EQUIVALENT IN STRENGTH IN SOLID OR HOLLOW SHAPES, IS REQUIRED.

2) FOR LADDERS SUBJECT TO NORMAL ATMOSPHERIC EXPOSURES, 19mm-DIAMETER SOLID BAR OR THE EQUIVALENT IN STRENGTH FOR SQUARE, RECTANGULAR, OR OTHER SOLID OR HOLLOW SHAPES, IS REQUIRED. FOR LADDERS SUBJECT TO UNUSUAL ATMOSPHERIC EXPOSURES, 25mm-DIAMETER SOLID BAR OR THE EQUIVALENT IN STRENGTH FOR SQUARE, RECTANGULAR, OR OTHER SOLID OR HOLLOW SHAPES, IS REQUIRED.

3) EXCEPT 900mm MAX. WHERE LADDER SAFETY DEVICE IS USED.

4) ALL DETAILS FOR FIXED LADDER SHALL BE COMPLIED WITH ANSI 14.3 AMERICAN NATIONAL STANDARD FOR LADDERS-FIXED-SAFETY REQUIREMENT.

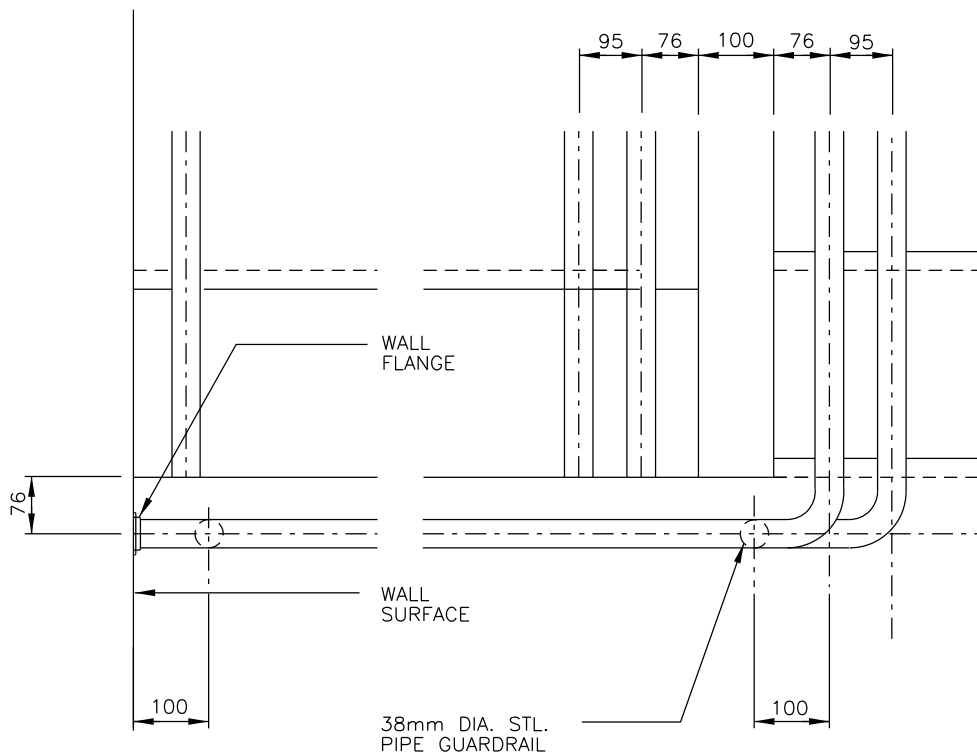
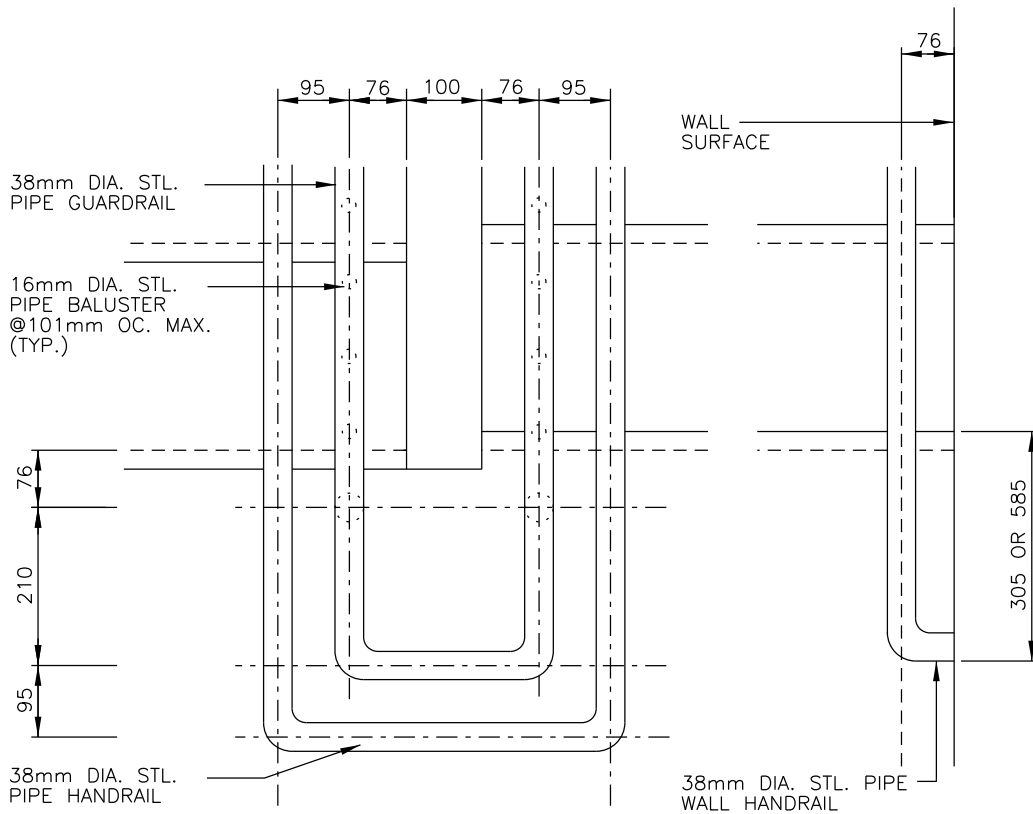


C TERMINATION AT FLOOR OR PLATFORM

STEEL LADDER DETAIL

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	STEEL LADDER	055133	A - 401



STAIR PLAN DETAIL

NOT TO SCALE



IMCOM

O&MA STANDARD DETAILS, KOREA

TITLE

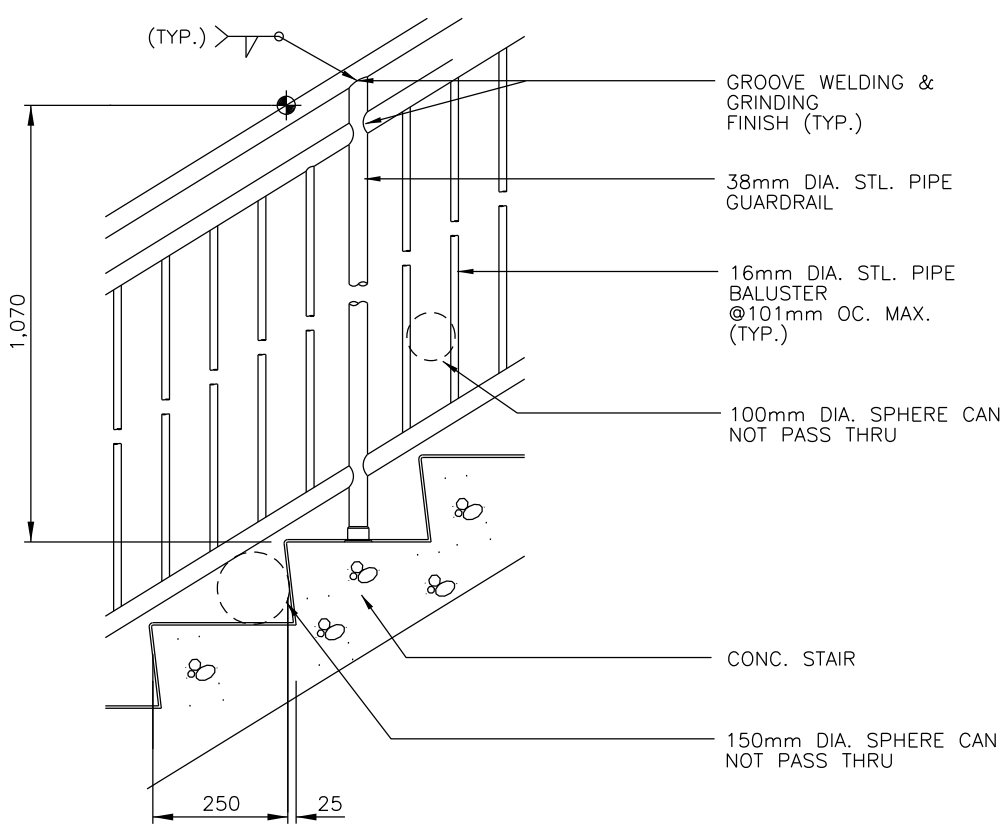
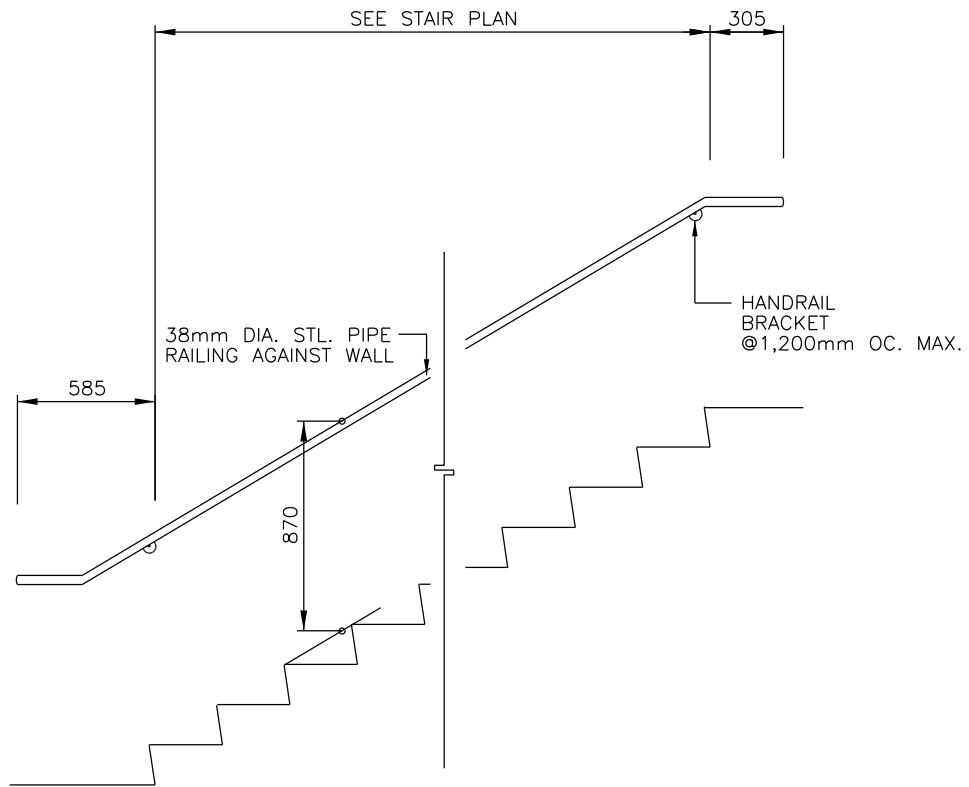
TYPICAL STAIR HANDRAIL & GUARDRAIL DETAILS-1

OMA SPEC

055200

DWG NO.

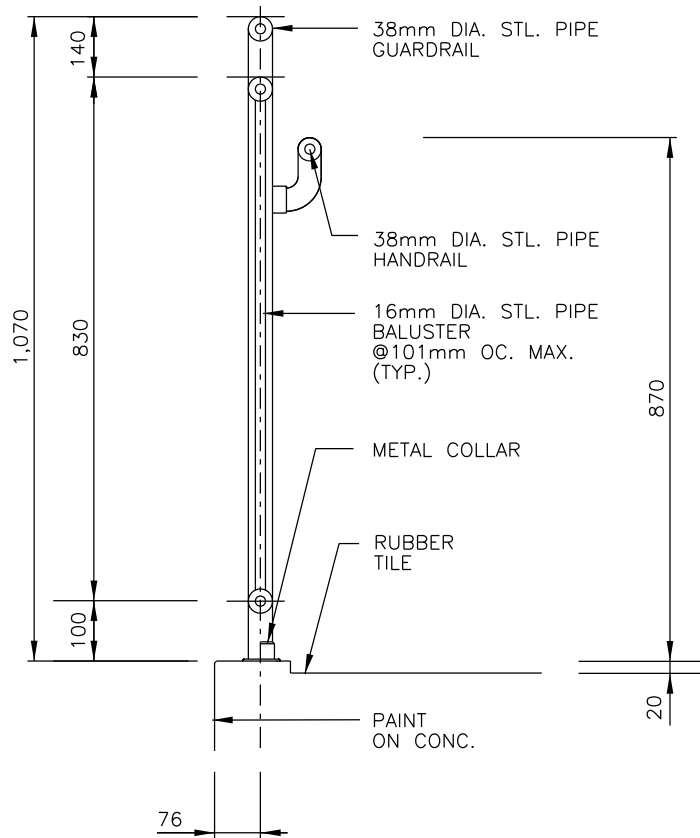
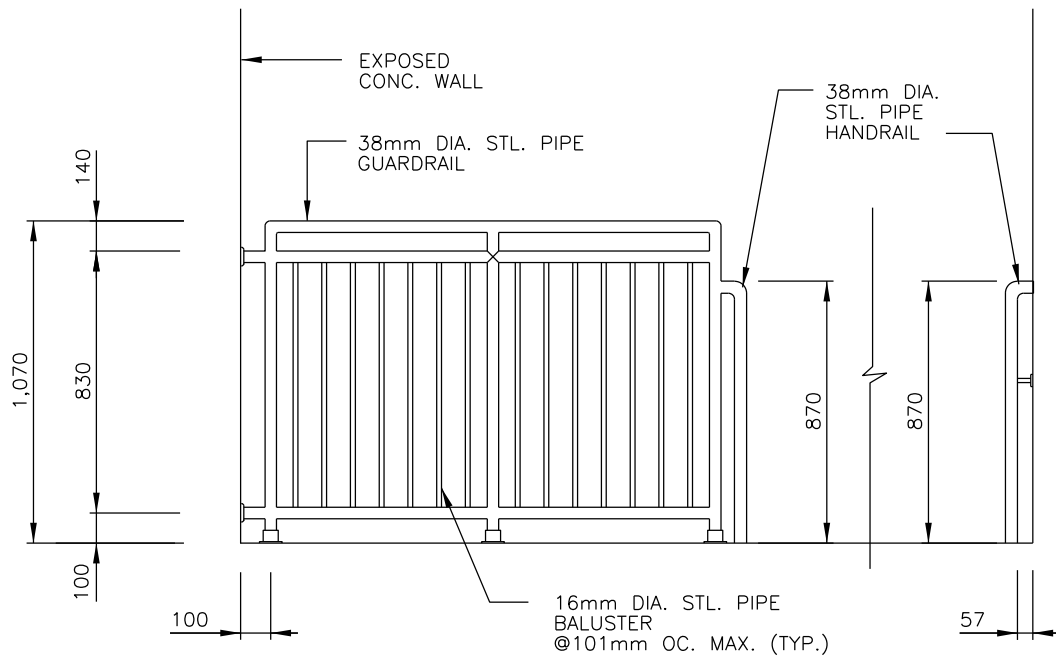
A - 501



HANDRAIL ELEVATION
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL STAIR HANDRAIL & GUARDRAIL DETAILS-2	055200	A - 502

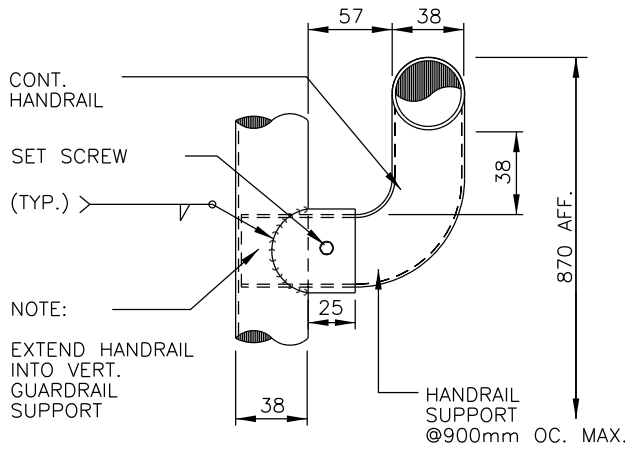
REV DATE: NOV 2015



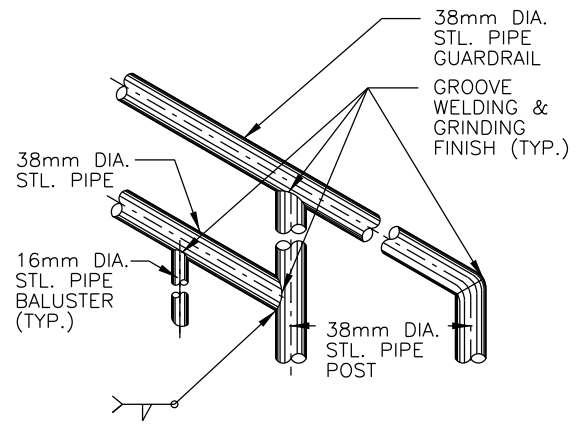
GUARDRAIL ELEVATION
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL STAIR HANDRAIL & GUARDRAIL DETAILS-3	055200	A - 503

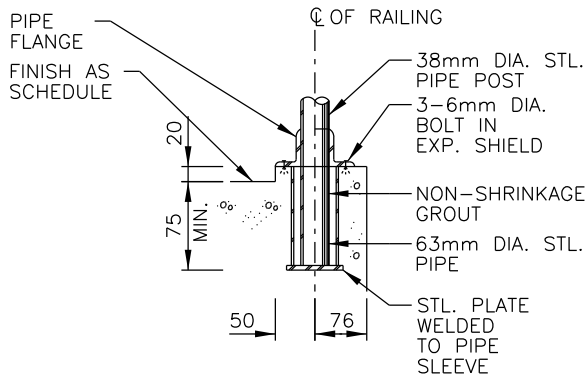
REV DATE: NOV 2015



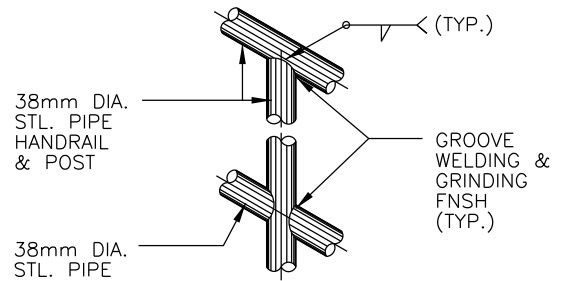
A SEC/ELEC THRU HANDRAIL



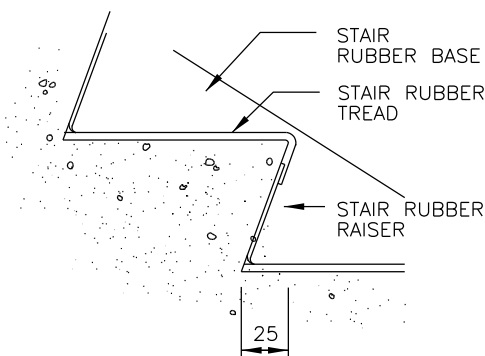
B POST & BALUSTER



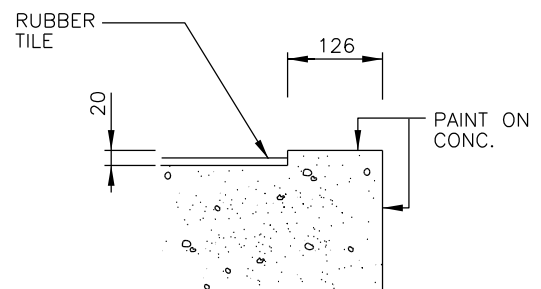
C RAILING & BALUSTER



D POST & RAILING



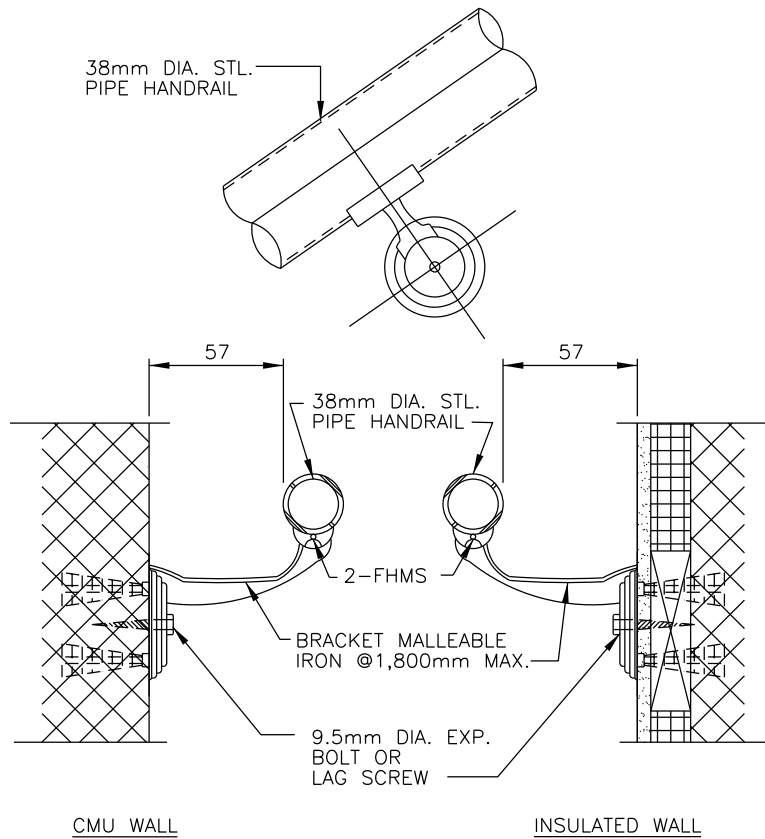
E STAIR STEP(AT INT)



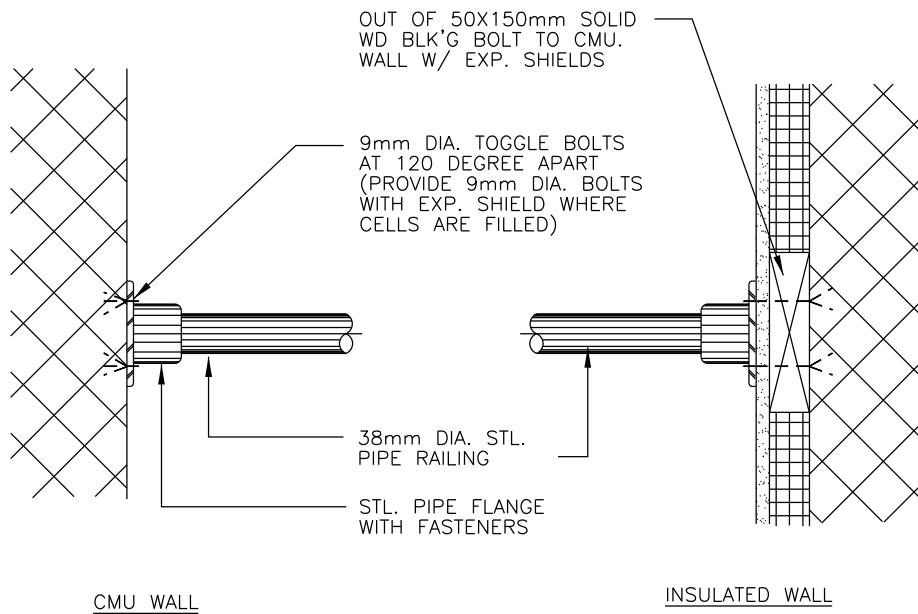
F STAIR STEP(AT SIDE)

STAIR AND RAILING DETAIL
NOT TO SCALE

 <p>IMCOM</p>	<p>O&MA STANDARD DETAILS, KOREA</p>		OMA SPEC	DWG NO.
	TITLE	TYPICAL STAIR HANDRAIL & GUARDRAIL DETAILS-4	055200	A - 504



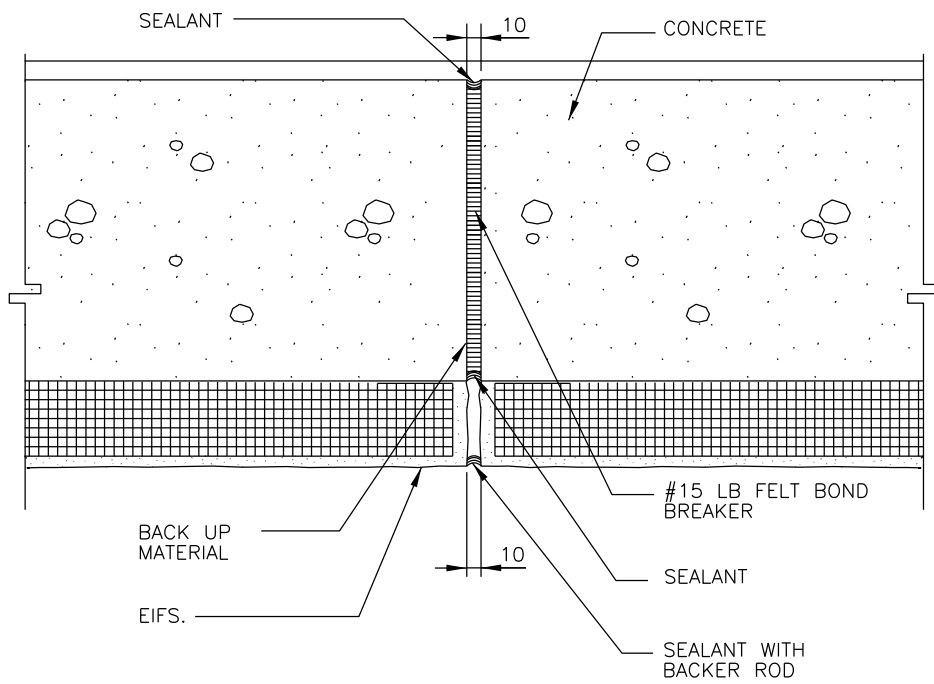
A WALL HANDRAIL DETAILS



B END WALL RAILING

WALL RAILING DETAIL
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL STAIR HANDRAIL & GUARDRAIL DETAILS-5	055200	A - 505

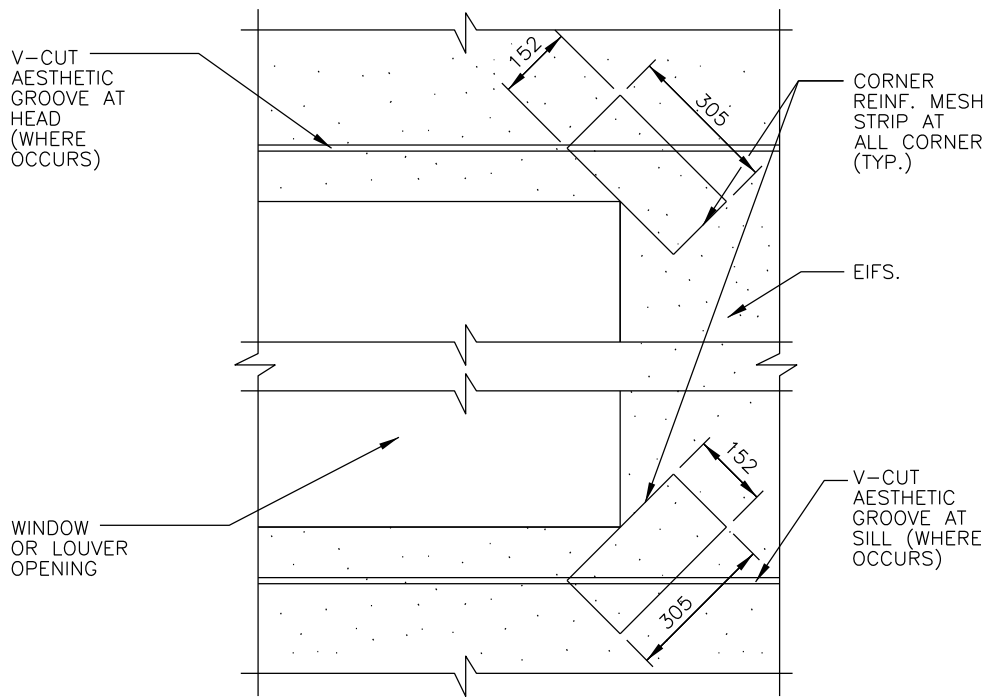


CONC. CLJ. DETAIL

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CONCRETE CONTROL JOINT DETAIL	072400	A - 601

REV DATE: NOV 2015

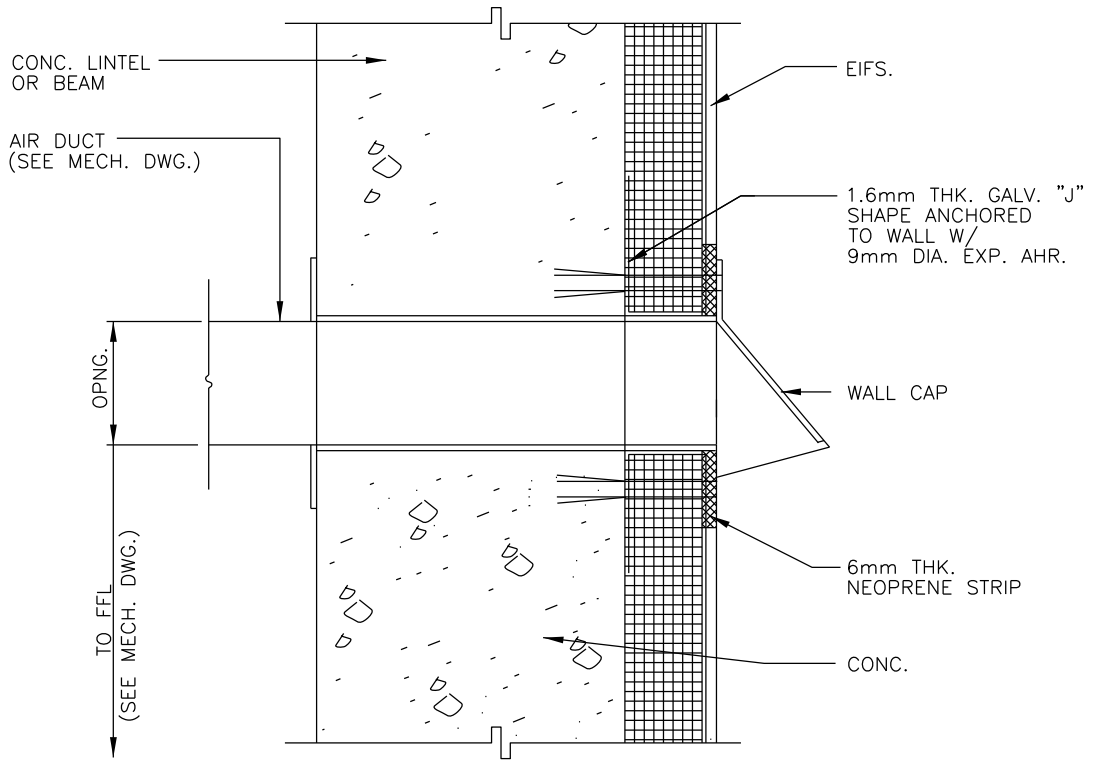


CONC, REINF. DETAIL

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CORNER REINFORCE DETAIL	072400	A - 602

REV DATE: NOV 2015

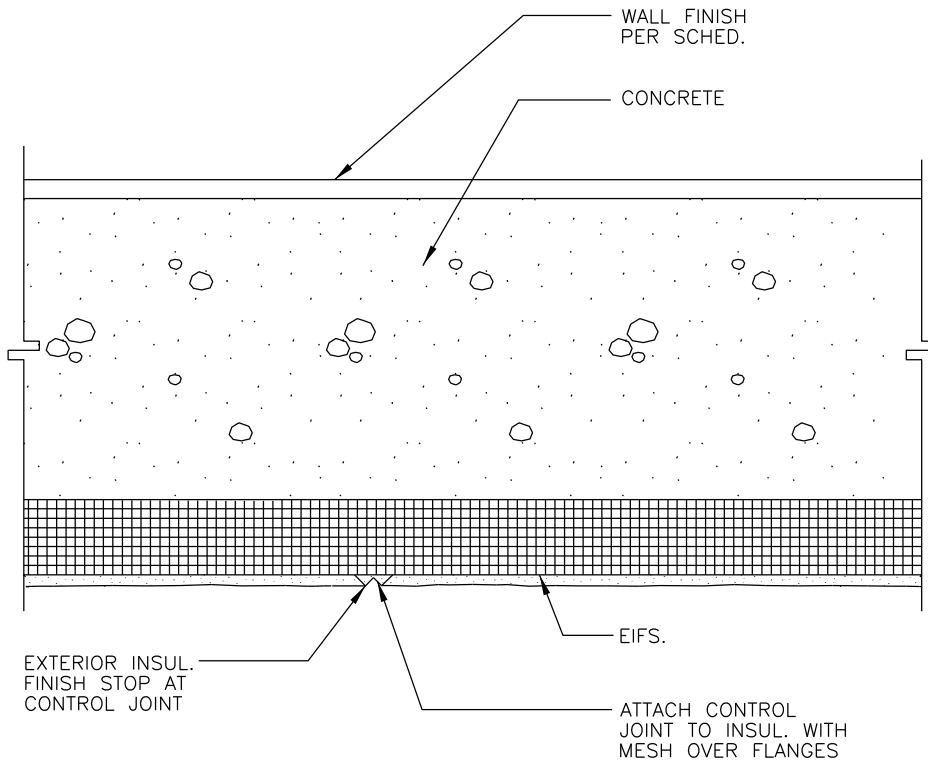


WALL CAP DETAIL

NOT TO SCALE

 <p>IMCOM</p>	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	WALL CAP DETAIL	072400	A - 603

REV DATE: NOV 2015

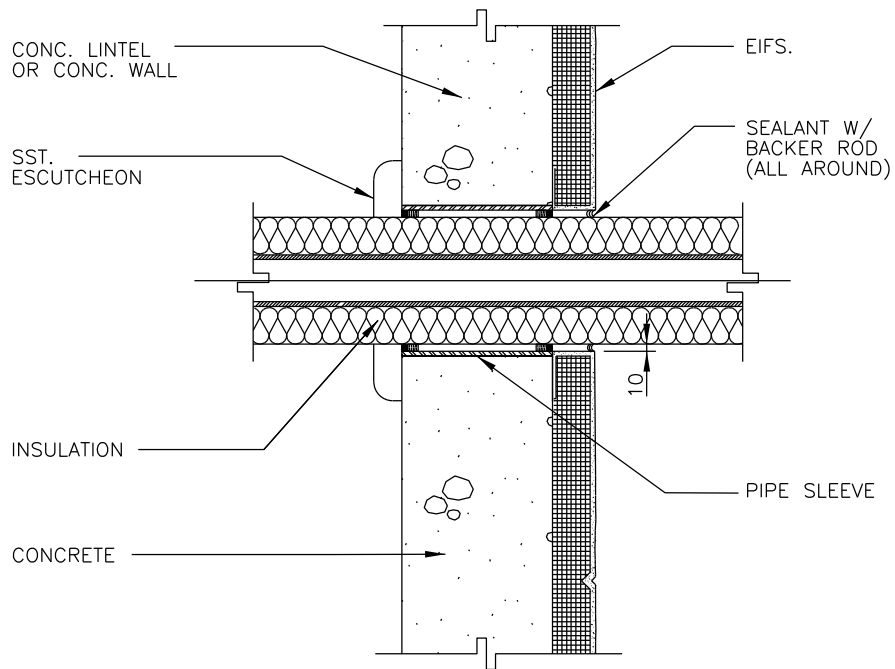


INSUL. CLJ. DETAIL

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	INSULATON CONTROL JOINT DETAIL	072400	A - 604

REV DATE: NOV 2015

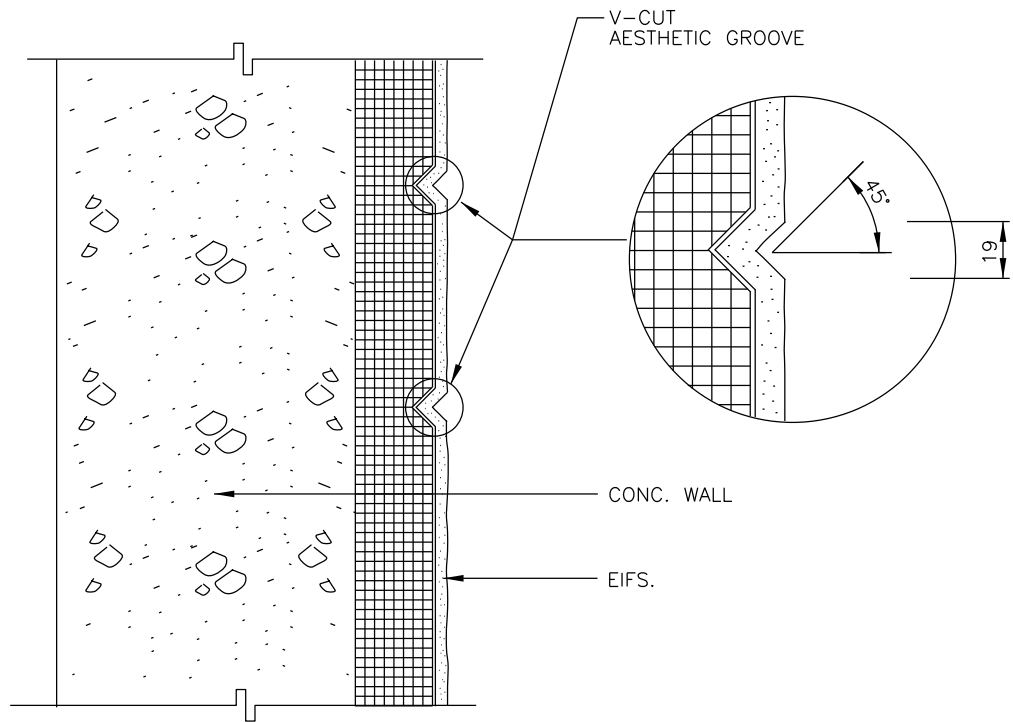


PIPE THRU WALL DETAIL

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PIPE THRU WALL DETAIL	072400	A - 605

REV DATE: NOV 2015

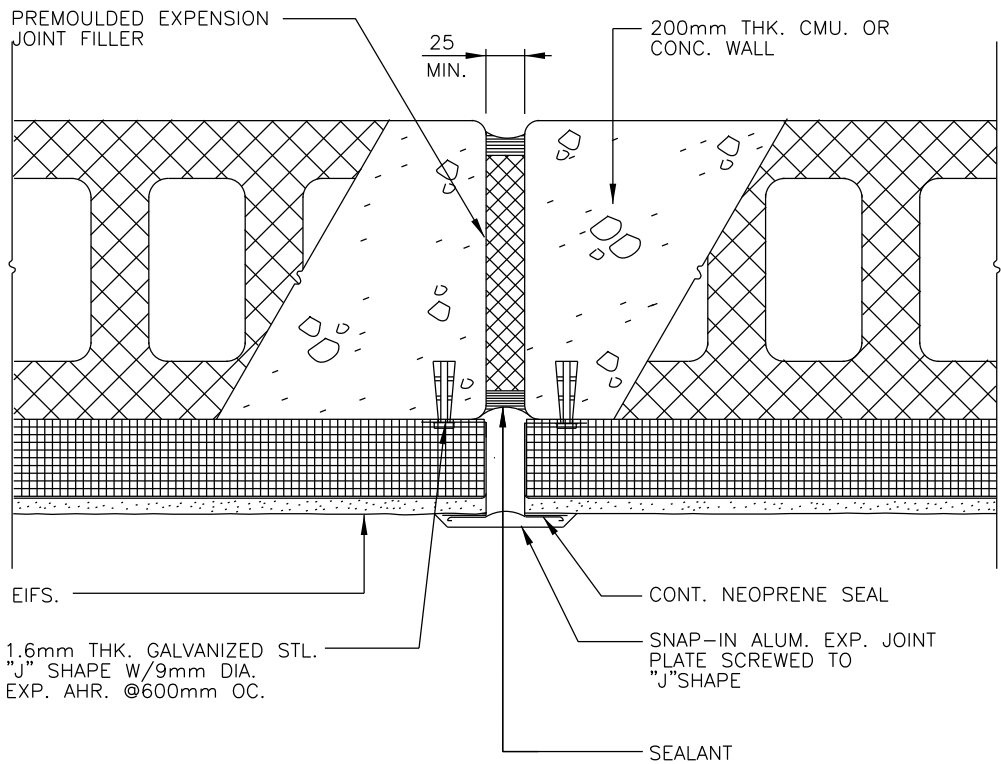


INSUL. AESTHETIC JOINT DETAIL

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	INSULATION AESTHETIC JOINT DETAIL	072400	A - 606

REV DATE: NOV 2015

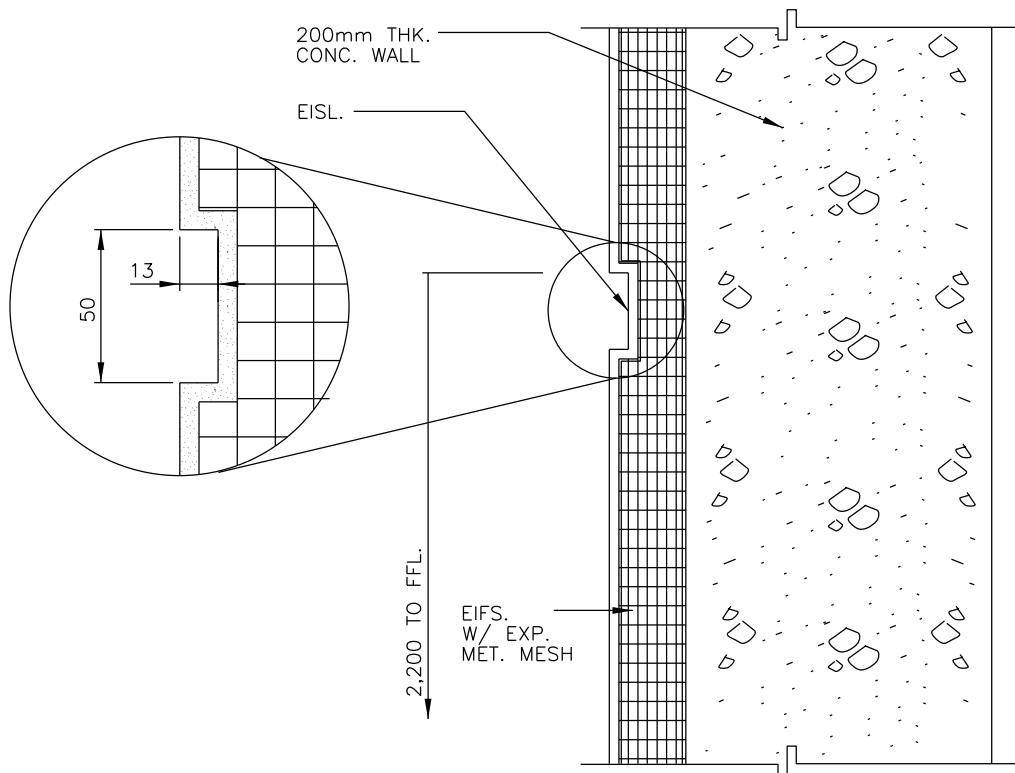


WALL EXP. JOINT DETAIL

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	WALL EXPANSION JOINT DETAIL	072400	A - 607

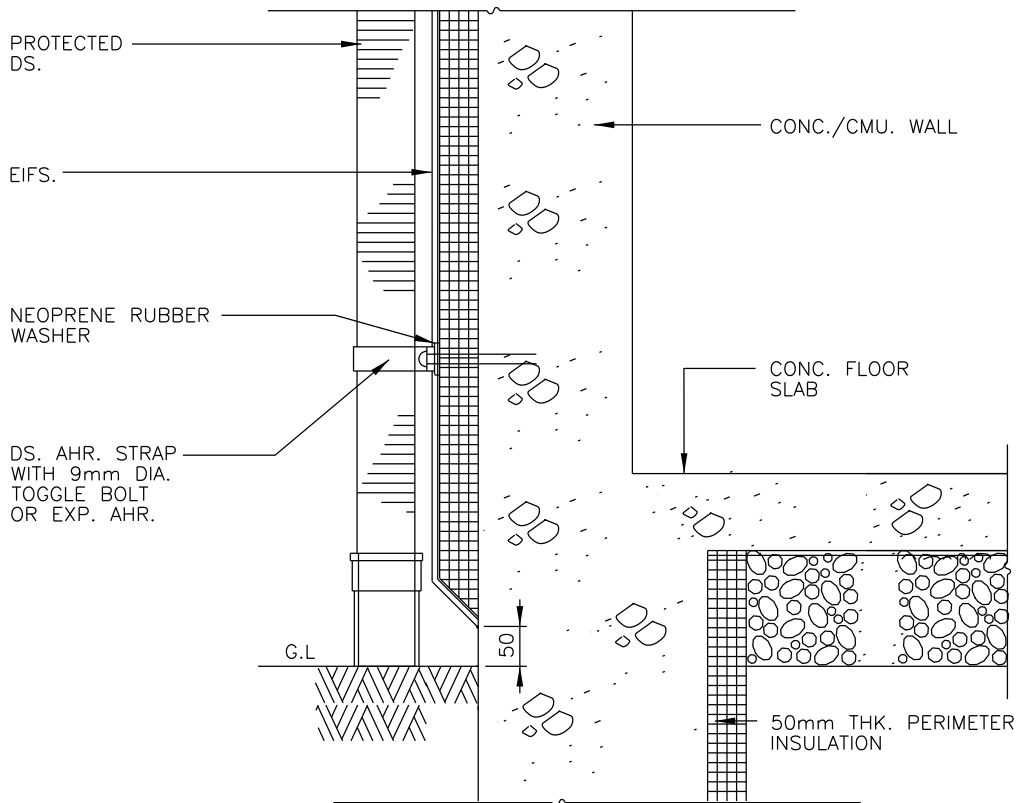
REV DATE: NOV 2015



EXP. INSUL. SCORE LINE DETAIL

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	EXPANSION INSULATION SCORE LINE DETAIL	072400	A - 608

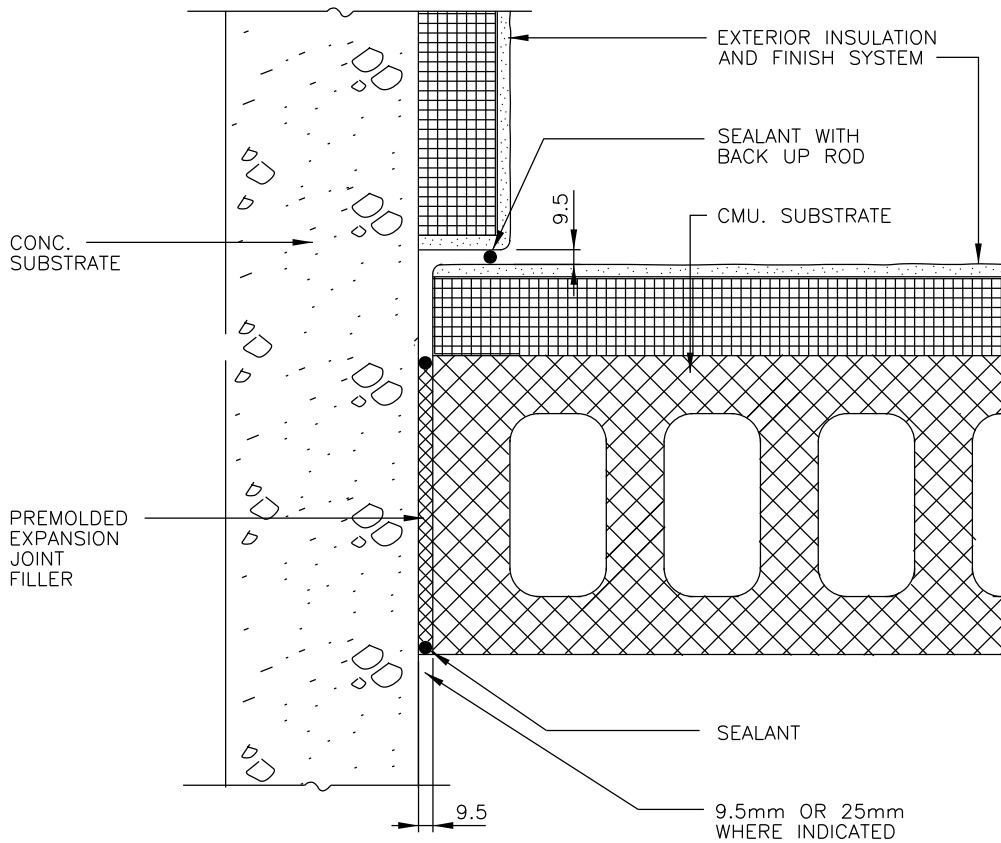


DS. & WALL BASE DETAIL

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	DOWNSPOUT & WALL BASE DETAIL	072400	A - 609

REV DATE: NOV 2015

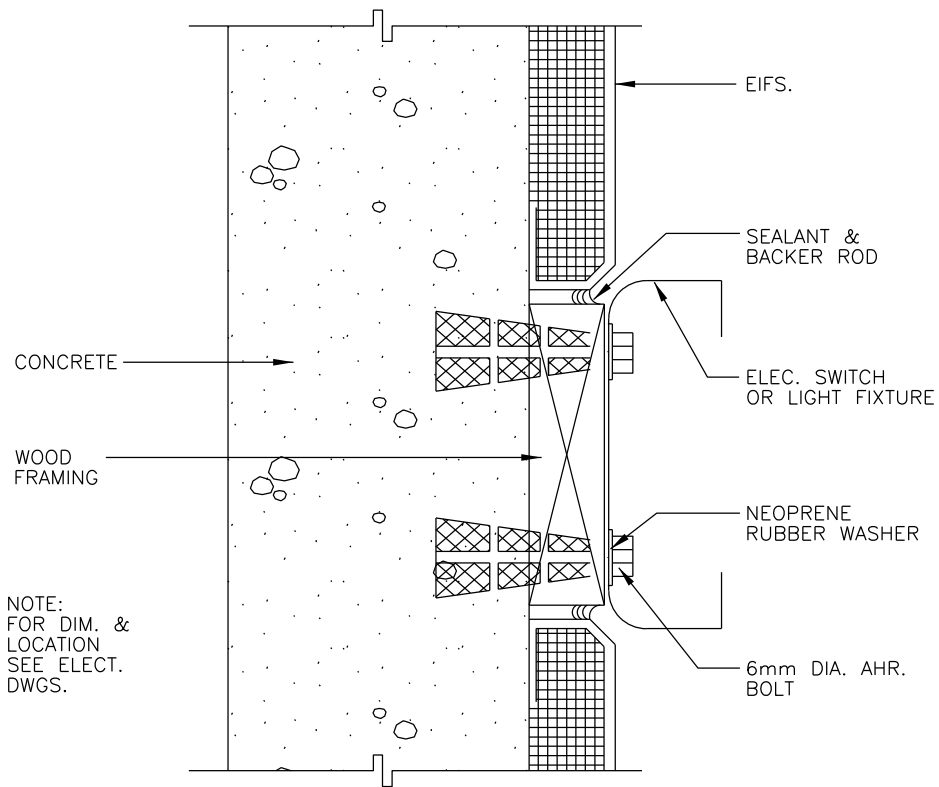


CMU & CONC. JOINT DETAIL

NOT TO SCALE

 <p>IMCOM</p>	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CMU. & CONC. JOINT DETAIL	072400	A - 610

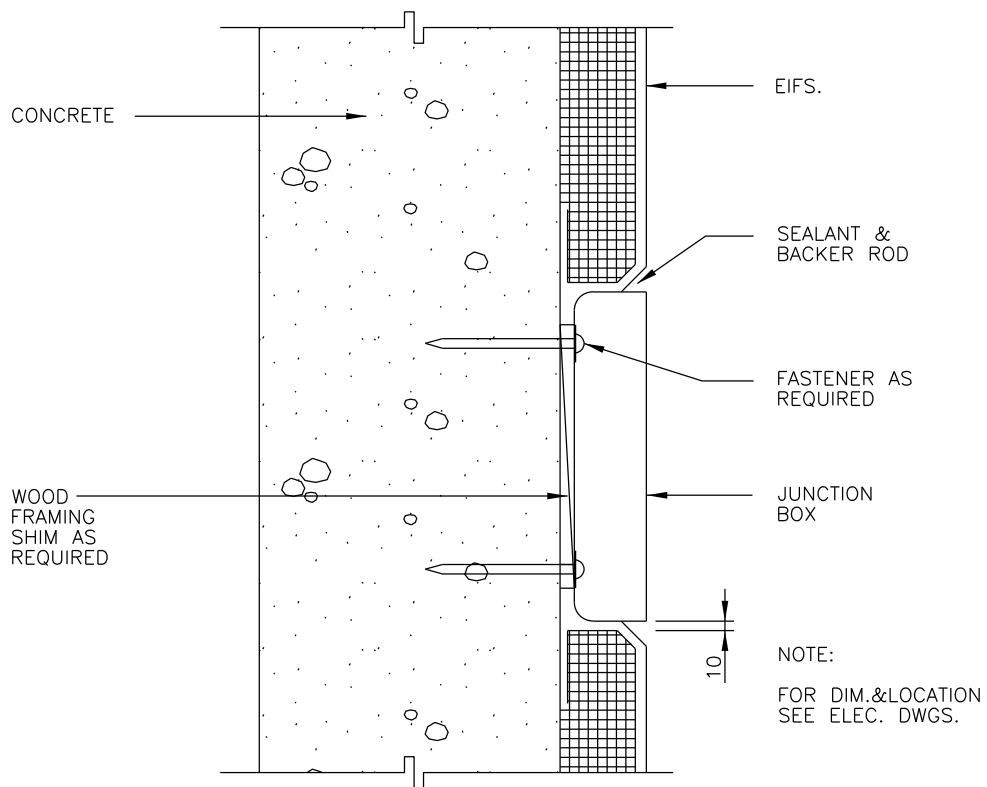
REV DATE: NOV 2015



SURFACE MTD. ELEC. FXTR. DETAIL

NOT TO SCALE

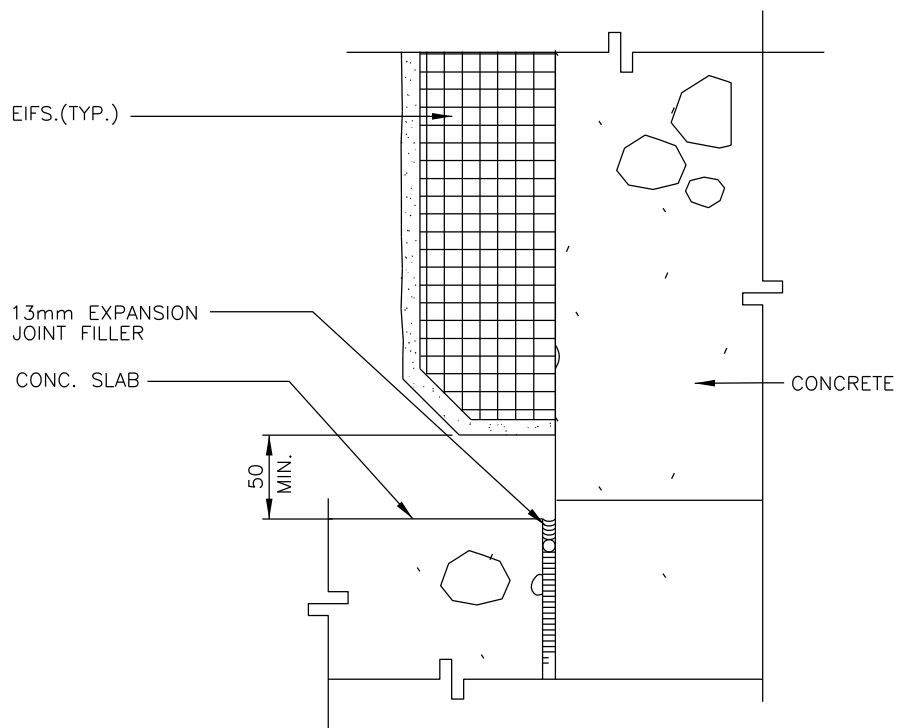
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	SURFACE MOUNTED ELECTRIC FIXTURE DETAIL	072400	A - 611



RECESS MTD. ELEC. FXTR. DETAIL
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	RECESS MOUNTED ELECTRIC FIXTURE DETAIL	072400	A - 612

REV DATE: NOV 2015

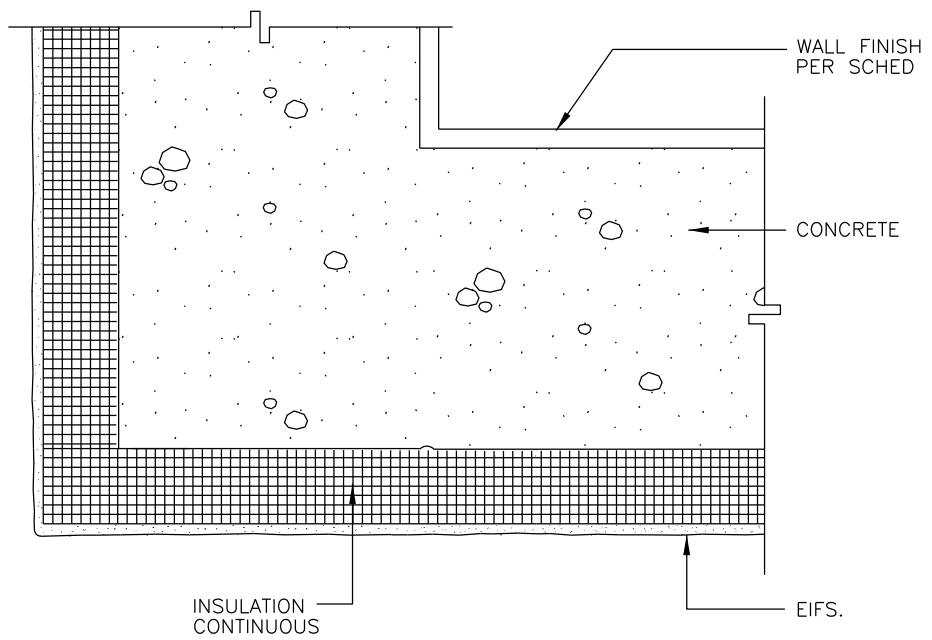


FOUNDATION WALL DETAIL

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	FOUNDATION WALL DETAIL	072400	A - 613

REV DATE: NOV 2015

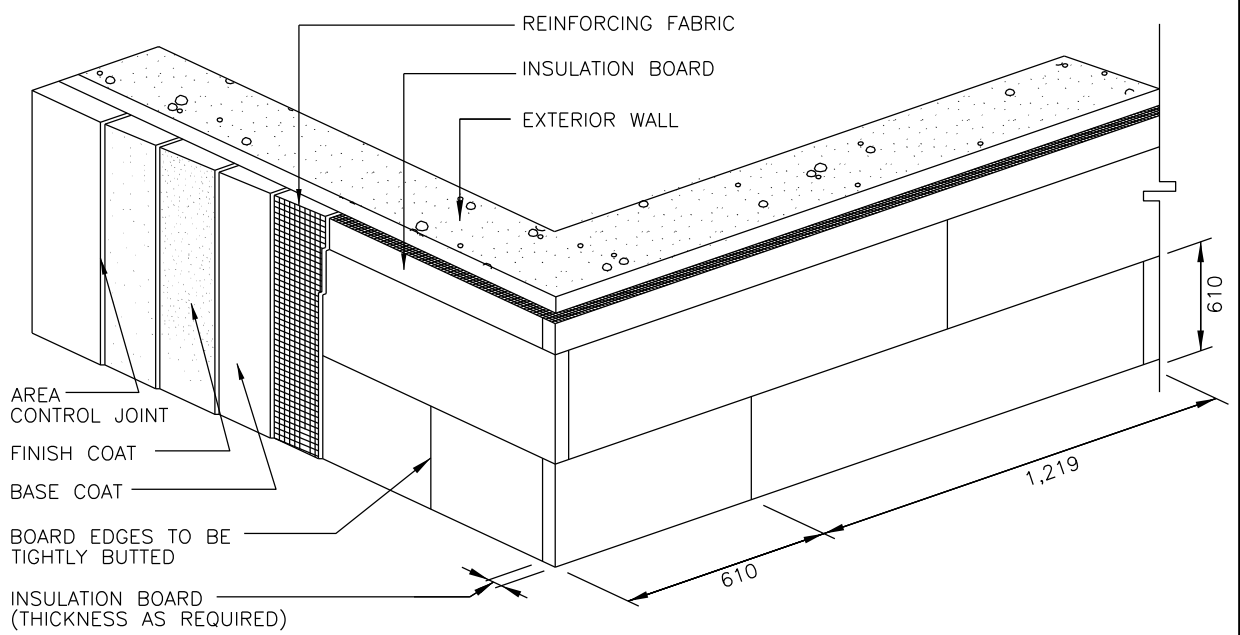


TYP. CORNER DET. (W/EIFS.)

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL CORNER DETAIL (W/EIFS.)	072400	A - 614

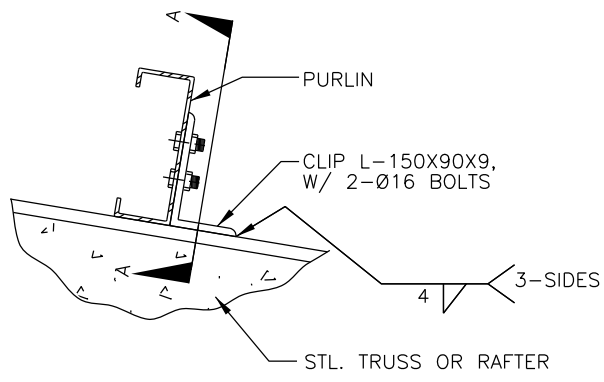
REV DATE: NOV 2015



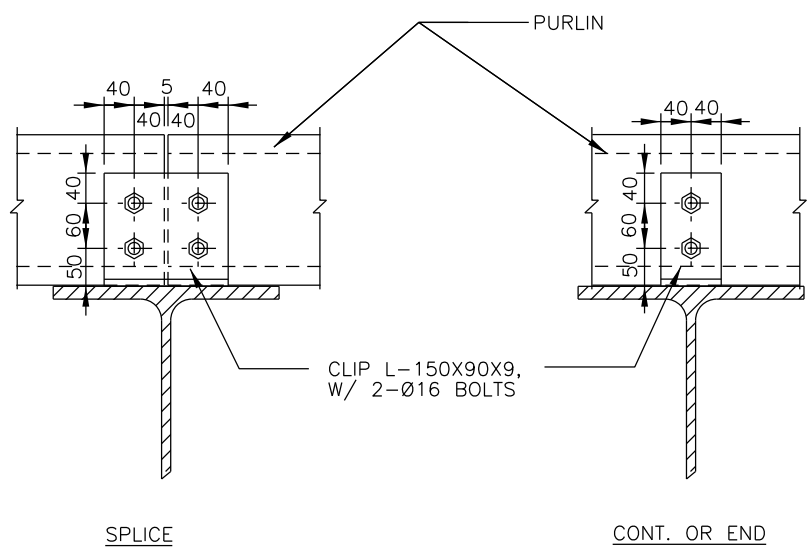
TYP. EIFS. PANEL ISOMETRIC
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL EIFS. PANEL ISOMETRIC	072400	A - 615

REV DATE: NOV 2015



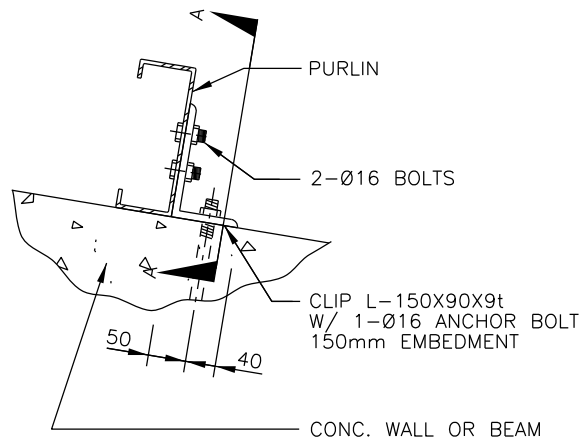
A PLAN



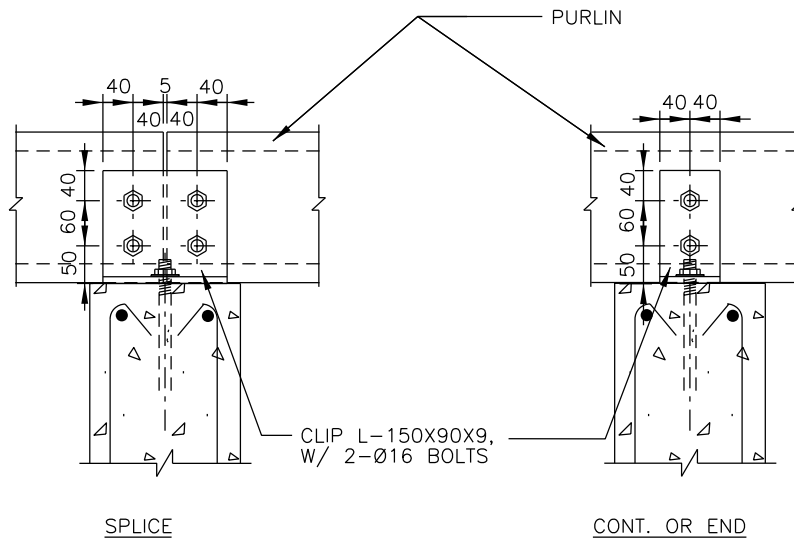
B SECTION A-A

PURLIN CONNECTION DETAIL
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL PURLIN CONNECTION DETAIL - 1	074113	A - 701



A PLAN



B SECTION A-A

PURLIN CONNECTION DETAIL
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

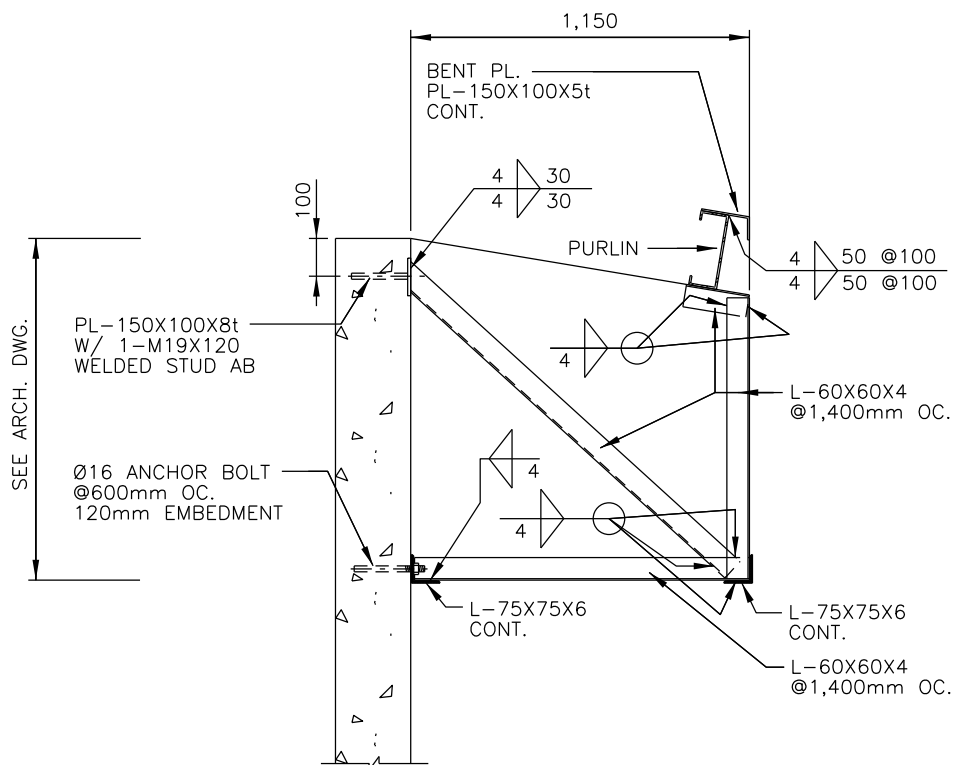
DWG NO.

TITLE

TYPICAL PURLIN CONNECTION DETAIL - 2

074113

A - 702

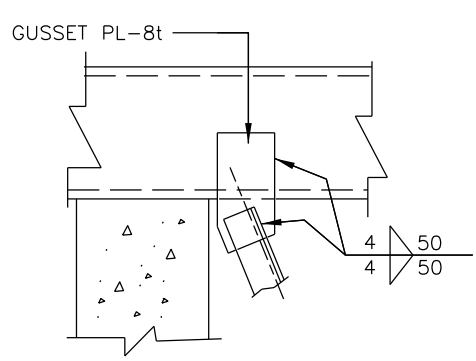
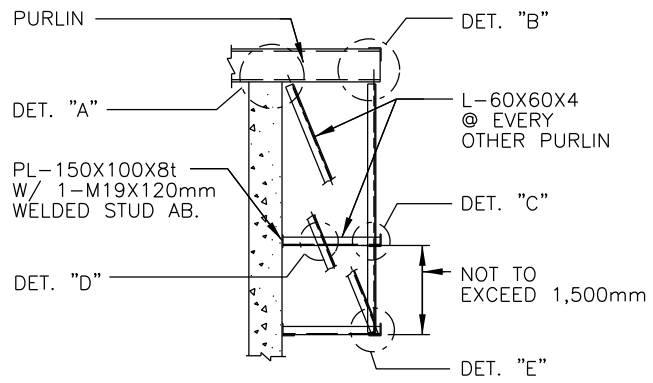


SOFFIT CONNECTION DETAIL

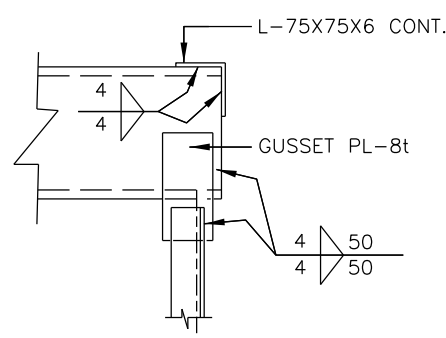
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL SOFFIT CONNECTION DETAIL - 1	074113	A - 703

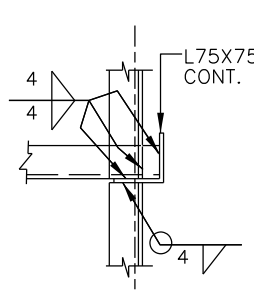
REV DATE: NOV 2015



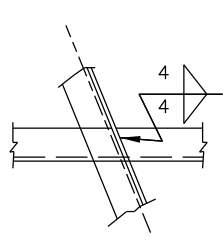
(A) DETAIL



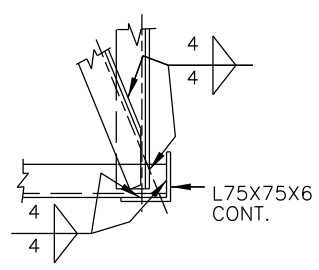
(B) DETAIL



(C) DETAIL



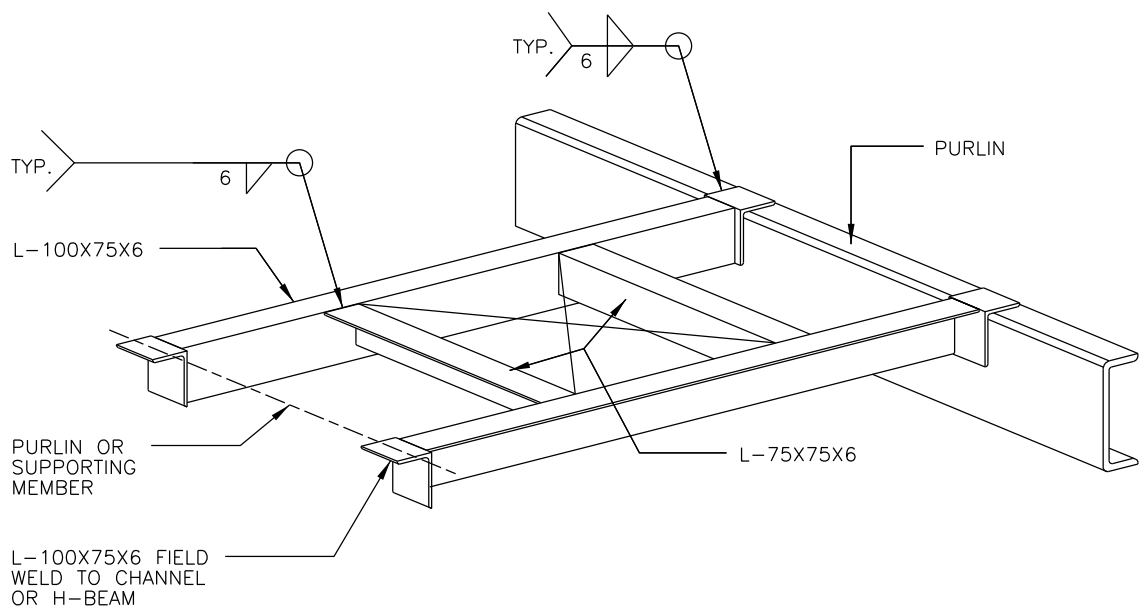
(D) DETAIL



(E) DETAIL

SOFFIT CONNECTION DETAIL
NOT TO SCALE

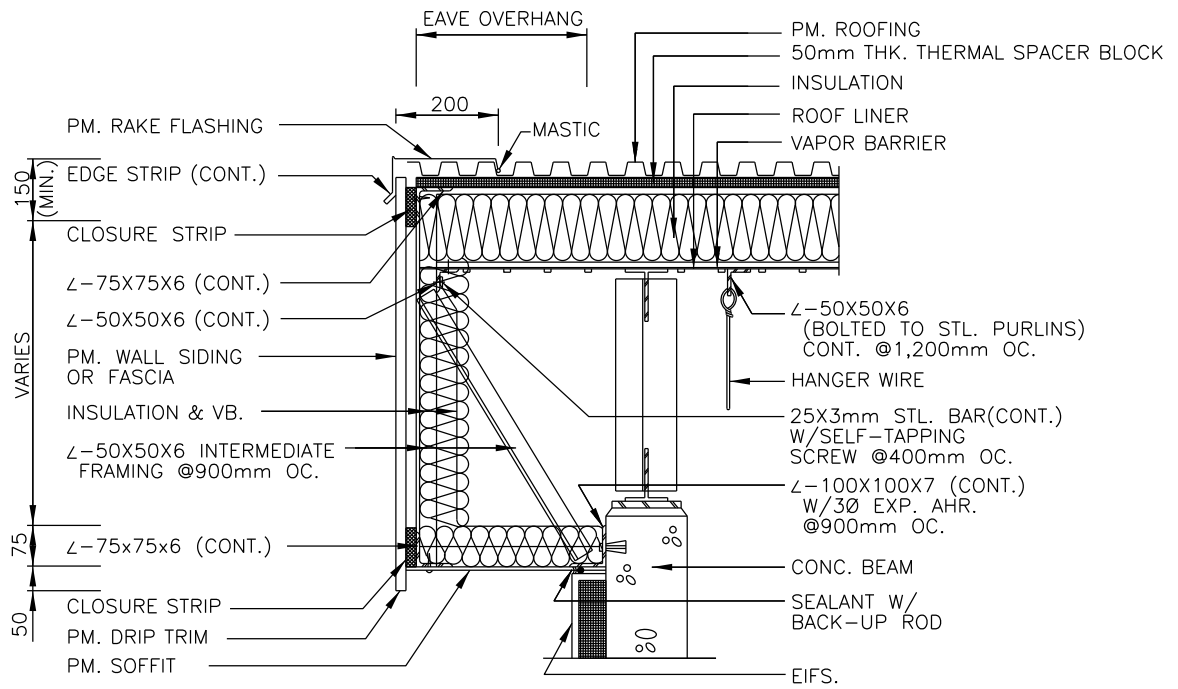
	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL SOFFIT CONNECTION DETAIL - 2	074113	A - 704



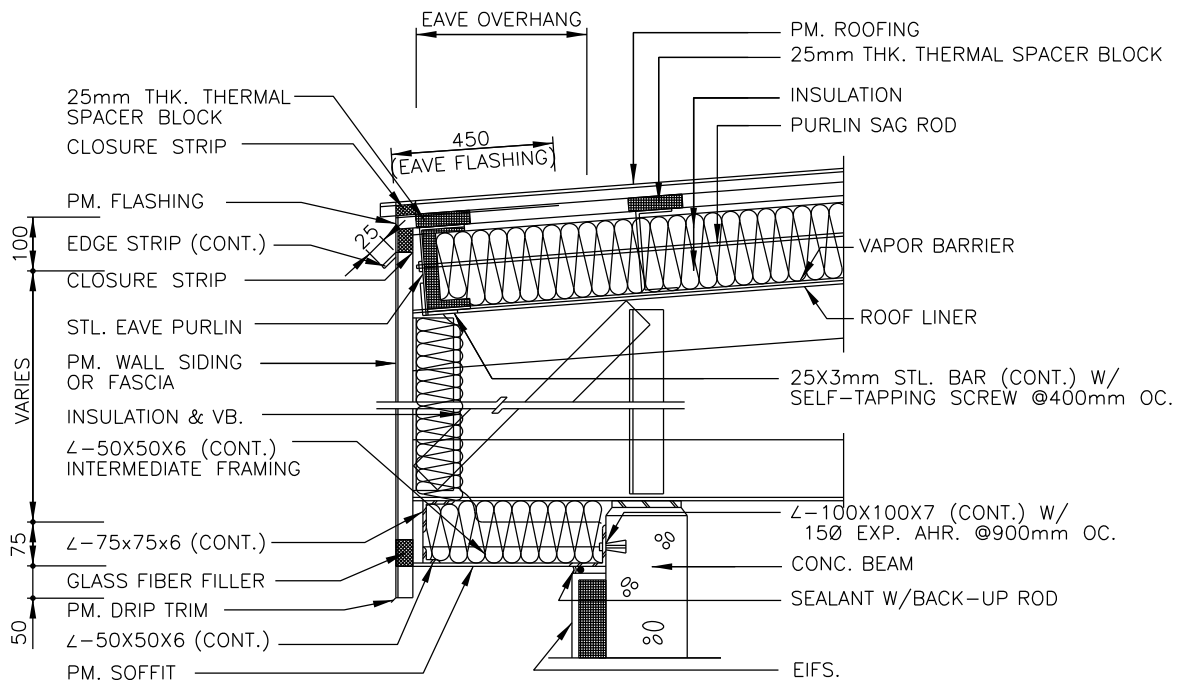
ROOF OPENING SUPPORT DETAIL
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL ROOF OPENING SUPPORT DETAIL	074113	A - 705

REV DATE: NOV 2015



A EAVE DETAIL

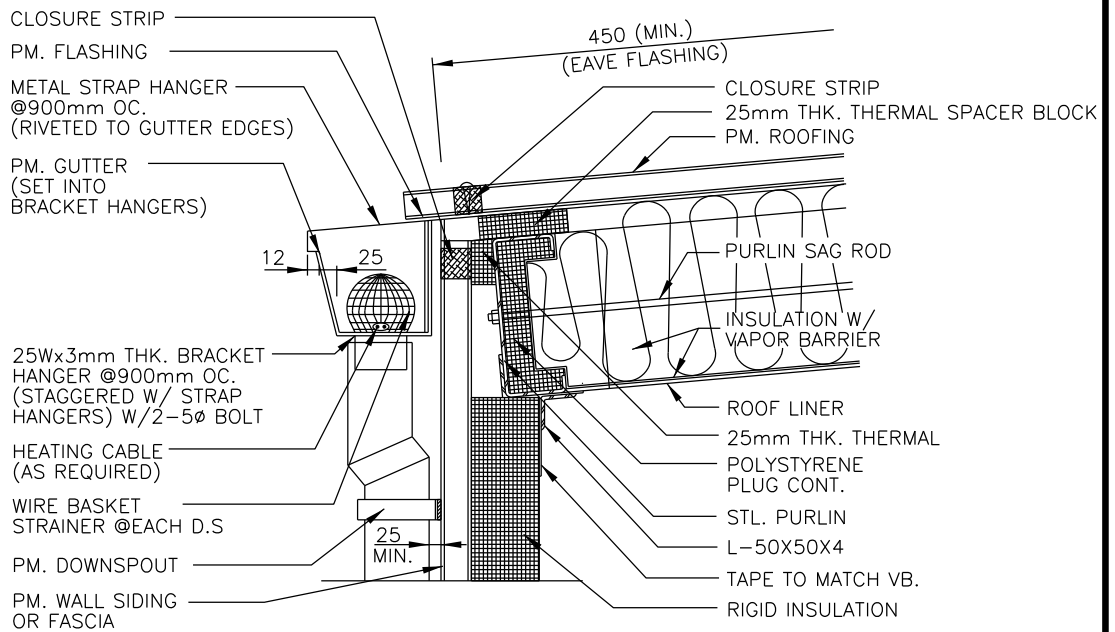


B EAVE DETAIL

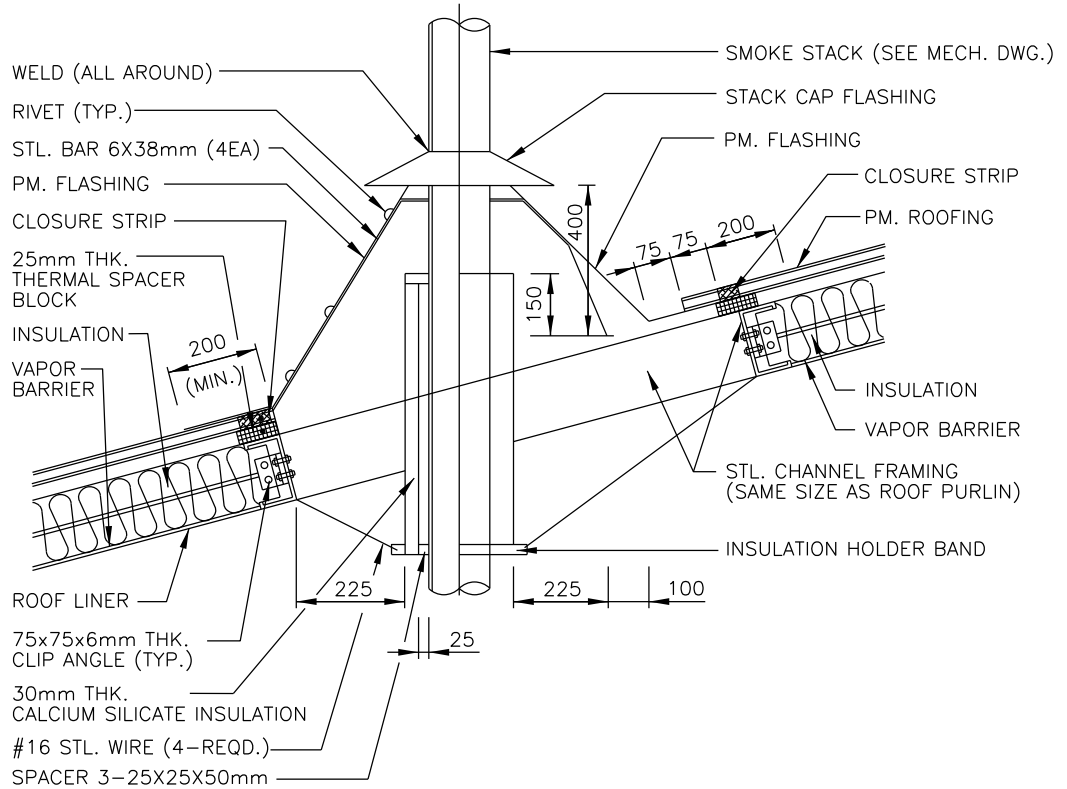
ROOFING & SIDING DETAILS, PROTECTED METAL-1

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	ROOFING & SIDING DETAILS, PROTECTED METAL-1	074113	A - 706



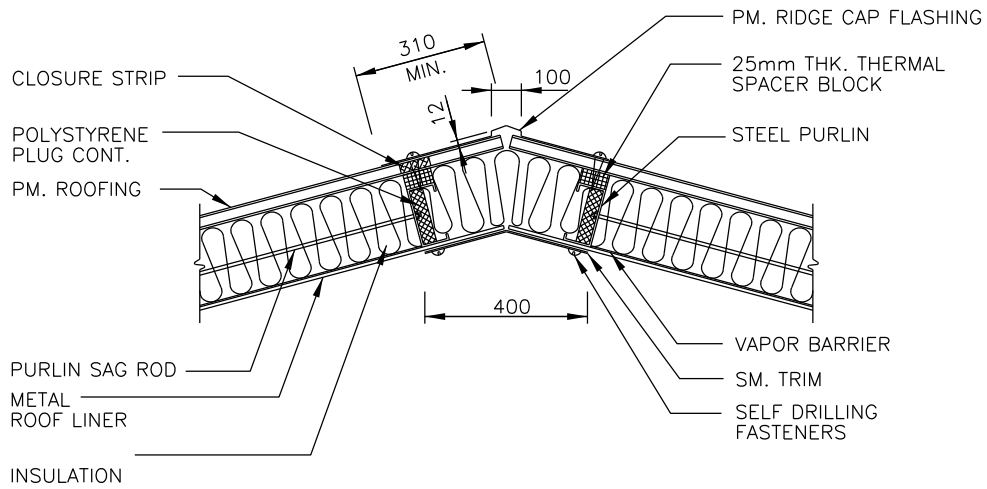
A MET. GUTTER DETAIL



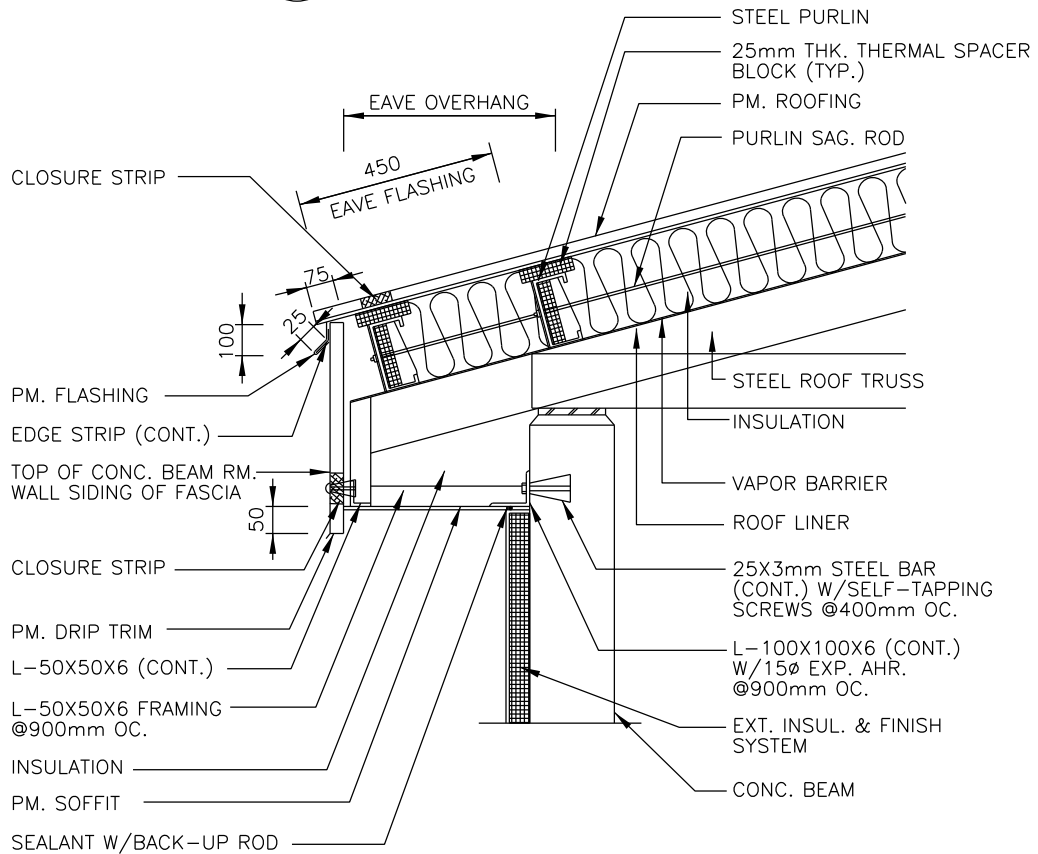
B SMOKE STACK DETAIL

ROOFING & SIDING DETAILS, PROTECTED METAL-2
 NOT TO SCALE

	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	ROOFING & SIDING DETAILS, PROTECTED METAL - 2	074113	A - 707



(A) RIDGE CAP DETAIL

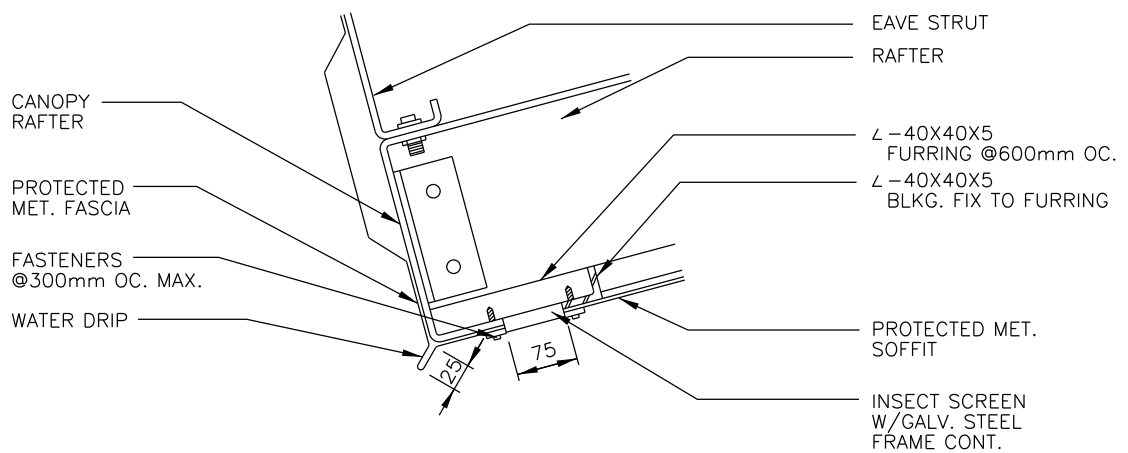


(B) EAVE DETAIL

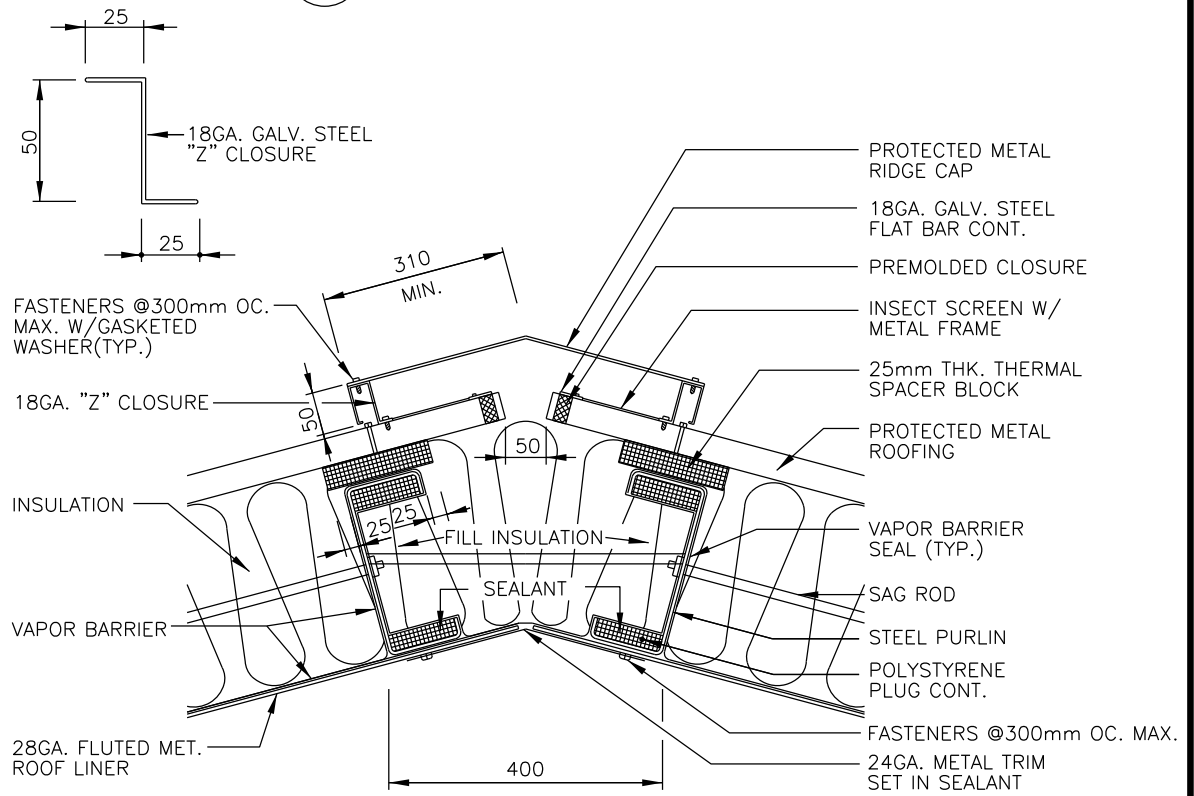
ROOFING & SIDING DETAILS, PROTECTED METAL-3

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	ROOFING & SIDING DETAILS, PROTECTED METAL - 3	074113	A - 708



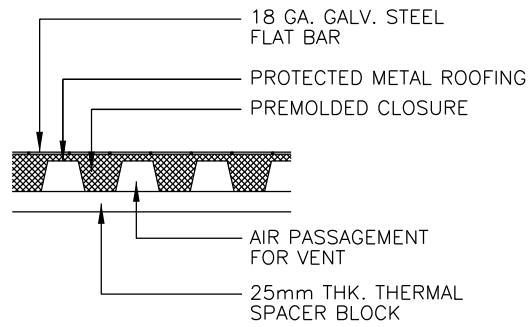
A VENTING PM. AT EAVE



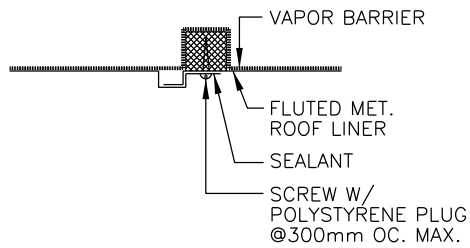
B VENTING RIDGE CAP DETAIL

ROOFING & SIDING DETAILS, PROTECTED METAL-4
NOT TO SCALE

 <p>IMCOM</p>	<p>O&MA STANDARD DETAILS, KOREA</p>		OMA SPEC	DWG NO.
	TITLE	ROOFING & SIDING DETAILS, PROTECTED METAL - 4	074113	A - 709



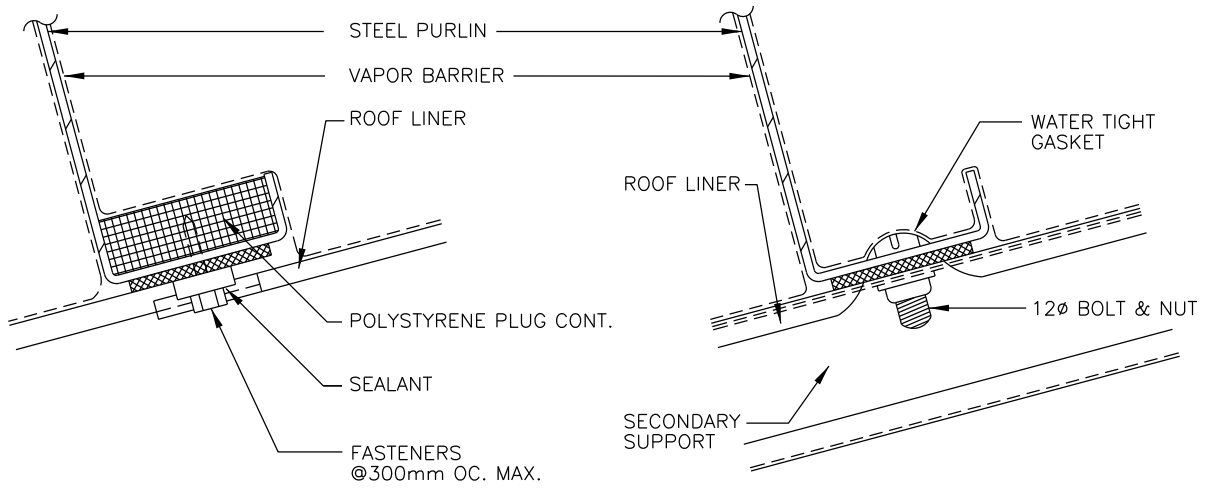
A PREMOLDED CLOSURE DETAIL



B SIDE LAP W/SCREW DETAIL

ROOFING & SIDING DETAILS, PROTECTED METAL-5
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	ROOFING & SIDING DETAILS, PROTECTED METAL - 5	074113	A - 710

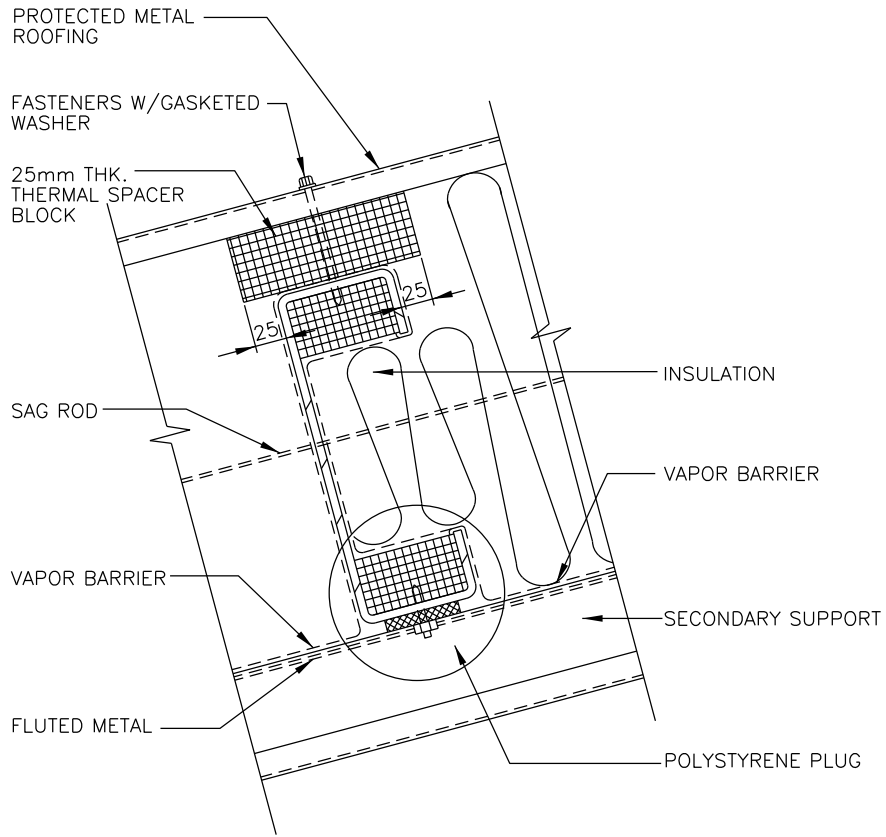


A AT END LAY JOINT DETAIL

B AT SECONDARY SUPPORT DETAIL

ROOFING & SIDING DETAILS, PROTECTED METAL-6
 NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	ROOFING & SIDING DETAILS, PROTECTED METAL - 6	074113	A - 711

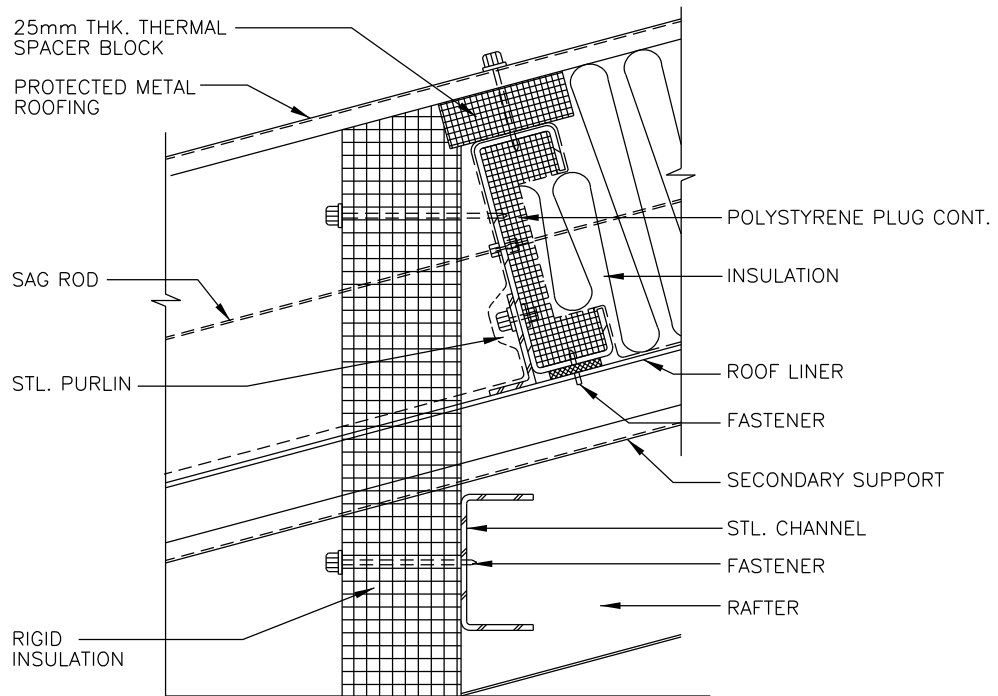


A ROOF DETAIL @PURLIN

ROOFING & SIDING DETAILS, PROTECTED METAL-7
 NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	ROOFING & SIDING DETAILS, PROTECTED METAL - 7	074113	A - 712

REV DATE: NOV 2015

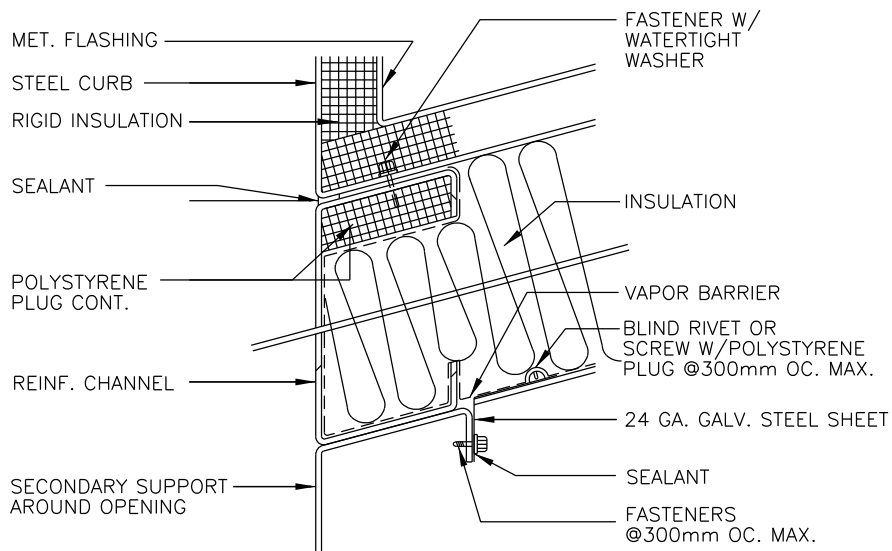


A AT EAVE

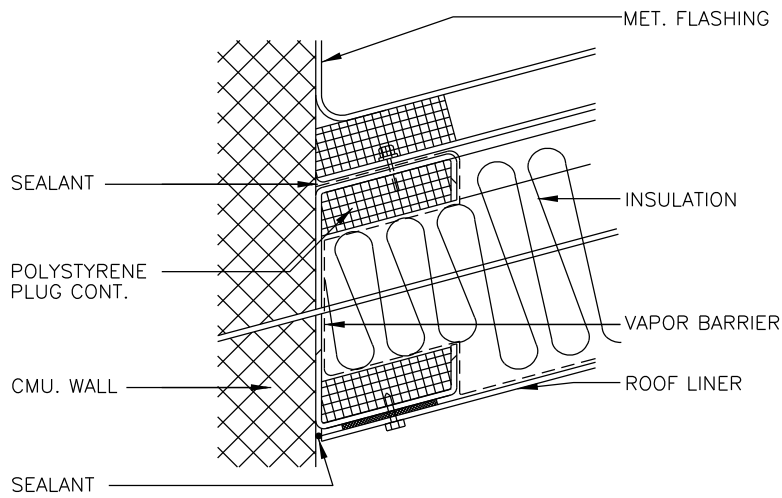
ROOFING & SIDING DETAILS, PROTECTED METAL-8
 NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	ROOFING & SIDING DETAILS, PROTECTED METAL - 8	074113	A - 713

REV DATE: NOV 2015



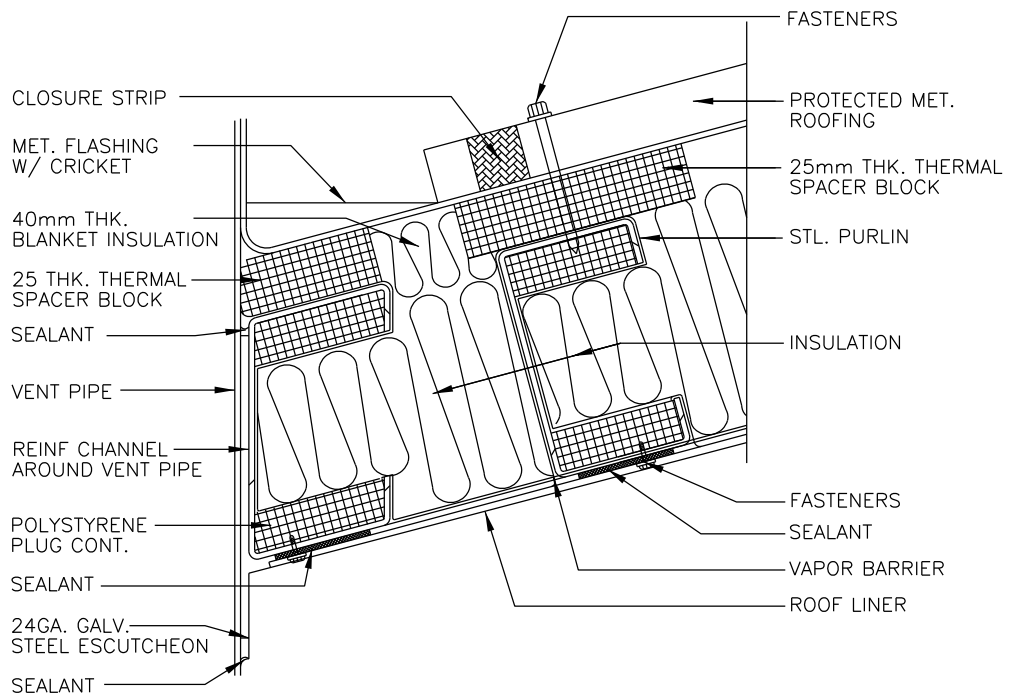
A AT ROOF OPENING



B AT CHIMNEY

ROOFING & SIDING DETAILS, PROTECTED METAL-9
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	ROOFING & SIDING DETAILS, PROTECTED METAL - 9	074113	A - 714

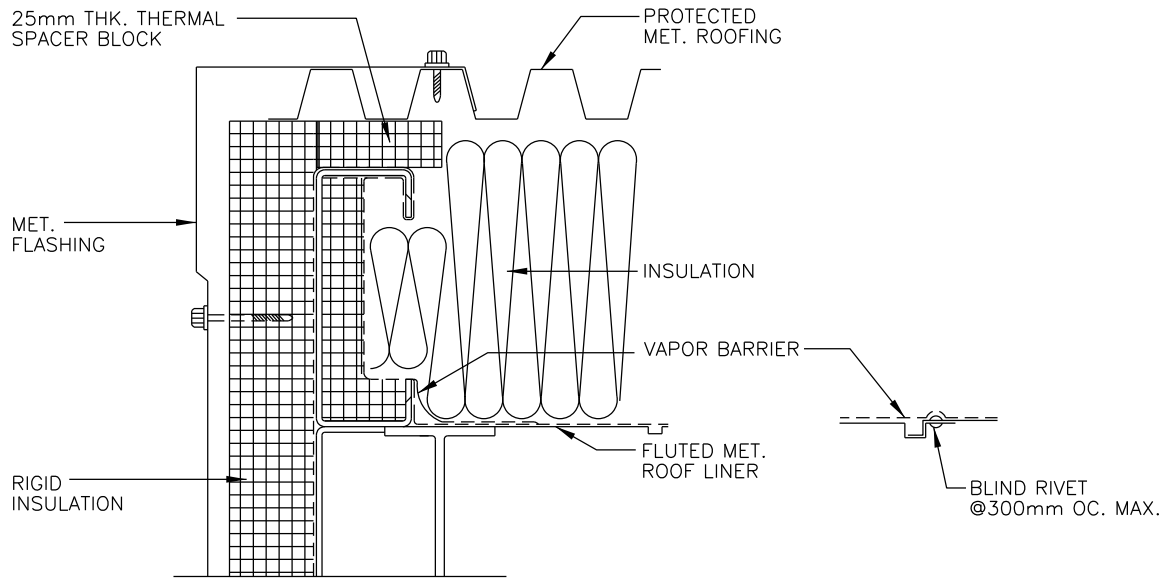


(A) AT VENT PIPE

ROOFING & SIDING DETAILS, PROTECTED METAL-10
NOT TO SCALE

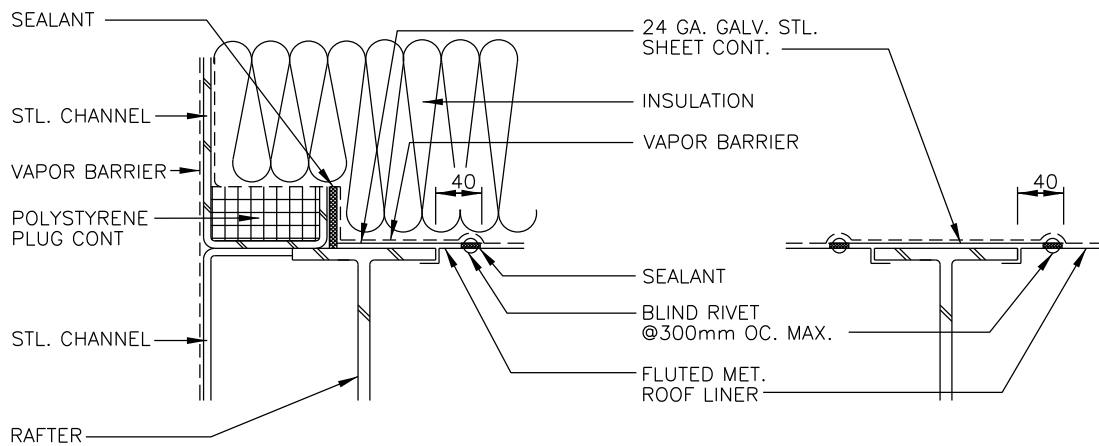
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	ROOFING & SIDING DETAILS, PROTECTED METAL - 10	074113	A - 715

REV DATE: NOV 2015



A AT EAVE

B SIDE LAY W/BLIND RIVET DET

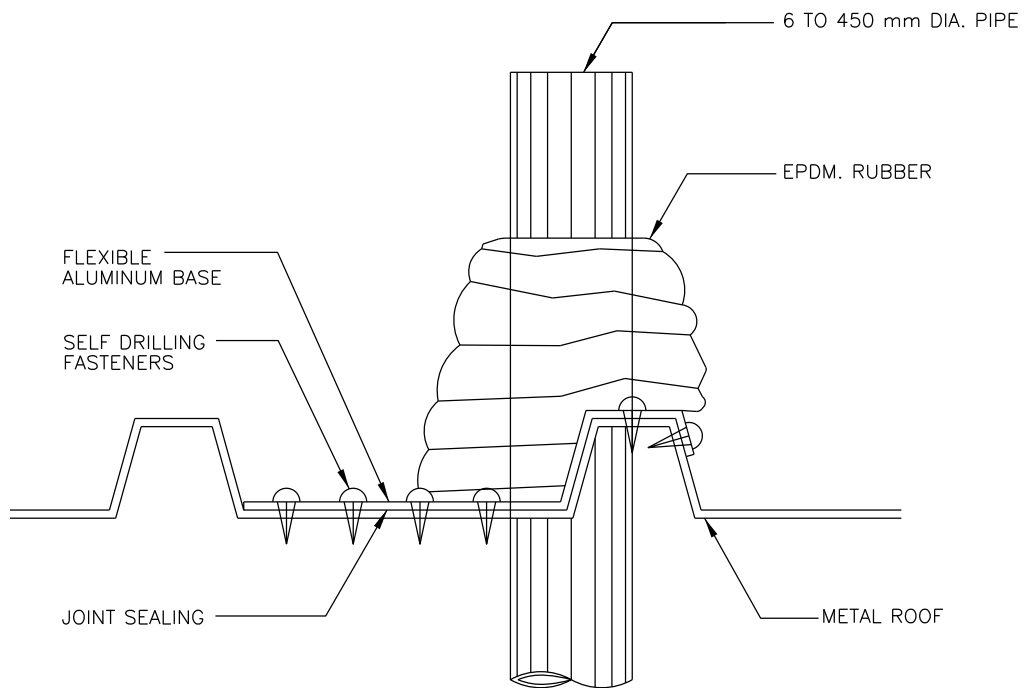


C AT RAKE

D AT RAFTER

ROOFING & SIDING DETAILS, PROTECTED METAL-11
NOT TO SCALE

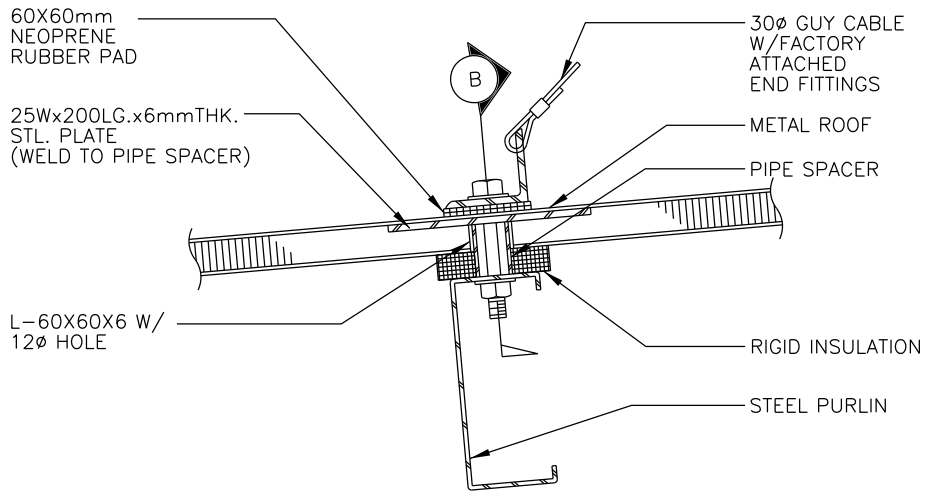
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	ROOFING & SIDING DETAILS, PROTECTED METAL - 11	074113	A - 716



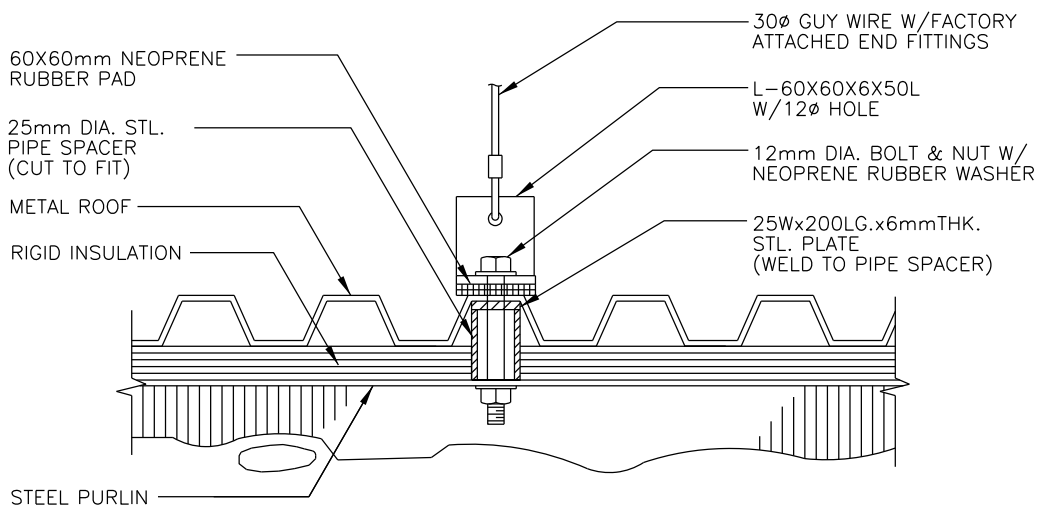
A PIPE PENETRATION DETAIL

PIPE PENETRATION DETAIL
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PIPE PENETRATION DETAIL	074113	A - 717



A DETAIL



B SECTION

CABLE TIE DOWN (GUY WIRE) ANCHOR DETAIL

NOT TO SCALE



IMCOM

O&MA STANDARD DETAILS, KOREA

TITLE

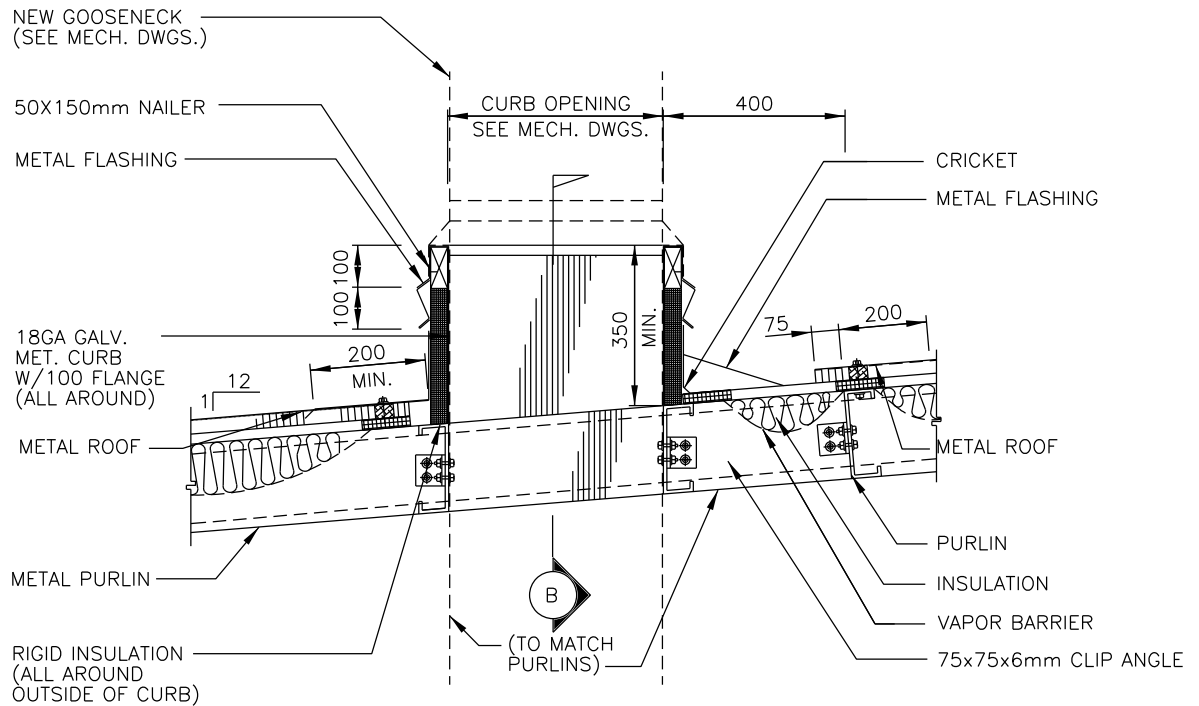
CABLE TIE DOWN (GUY WIRE) ANCHOR DETAIL

OMA SPEC

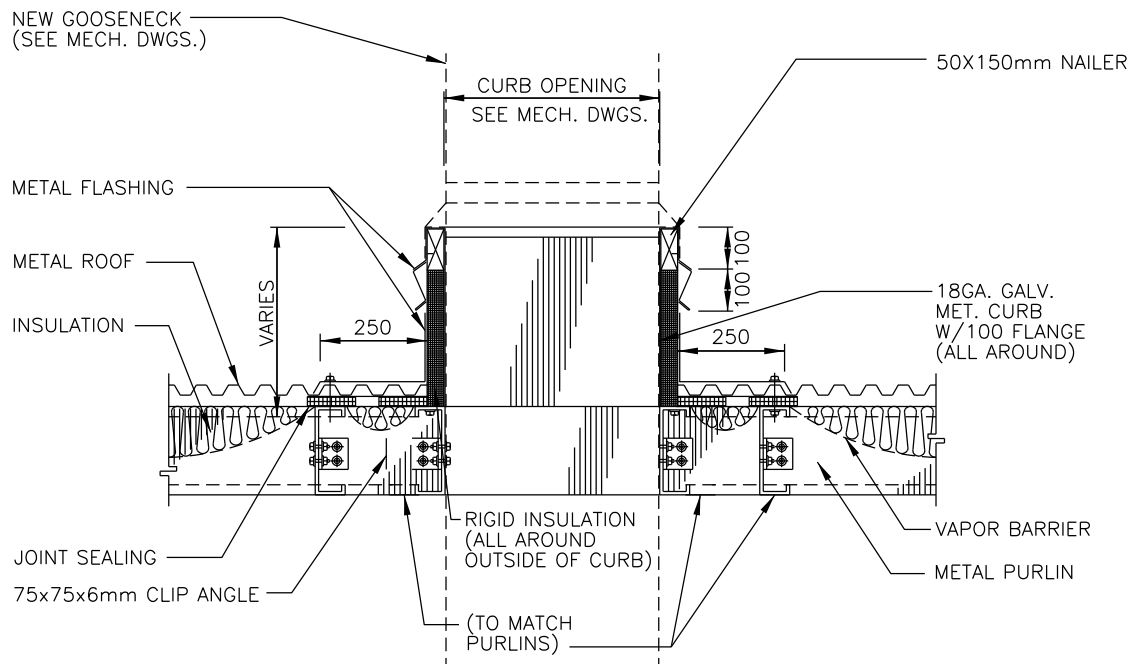
074113

DWG NO.

A - 718



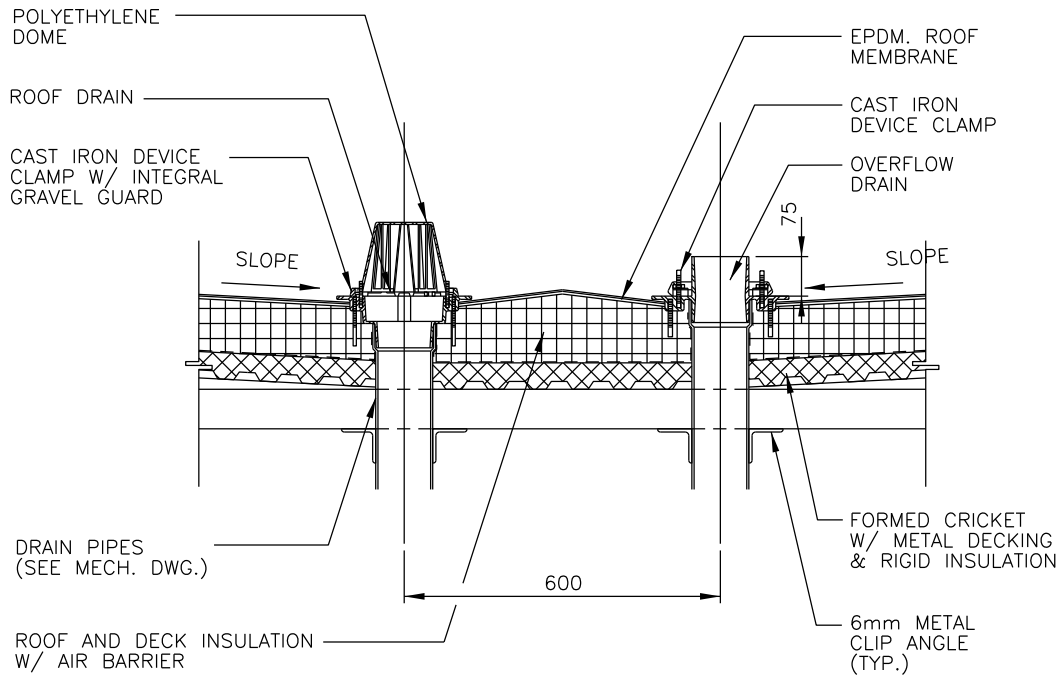
A SECTION



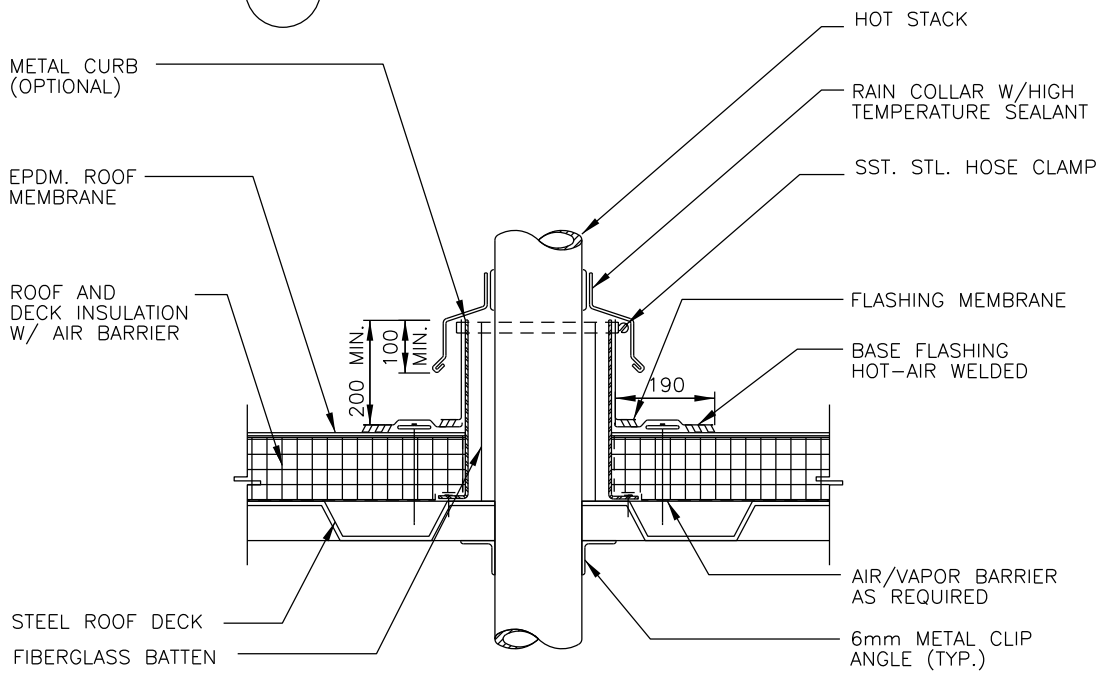
B SECTION

MET. CURB/GOOSENECK DETAIL
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	GOOSENECK DETAIL	074113	A - 719



A ROOF DRAIN & OVERFLOW



B PENETRATION HEATED STACK

NOTES :

- 1.SARNAFIL MEMBRANE SHALL NOT BE IN CONTACT WITH SURFACES HAVING SUSTAINED TEMPERATURES ABOVE 160°F.
- 2.AIR/VAPOR BARRIER SHALL BE SEALED AT EDGES

EPDM DETAIL

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

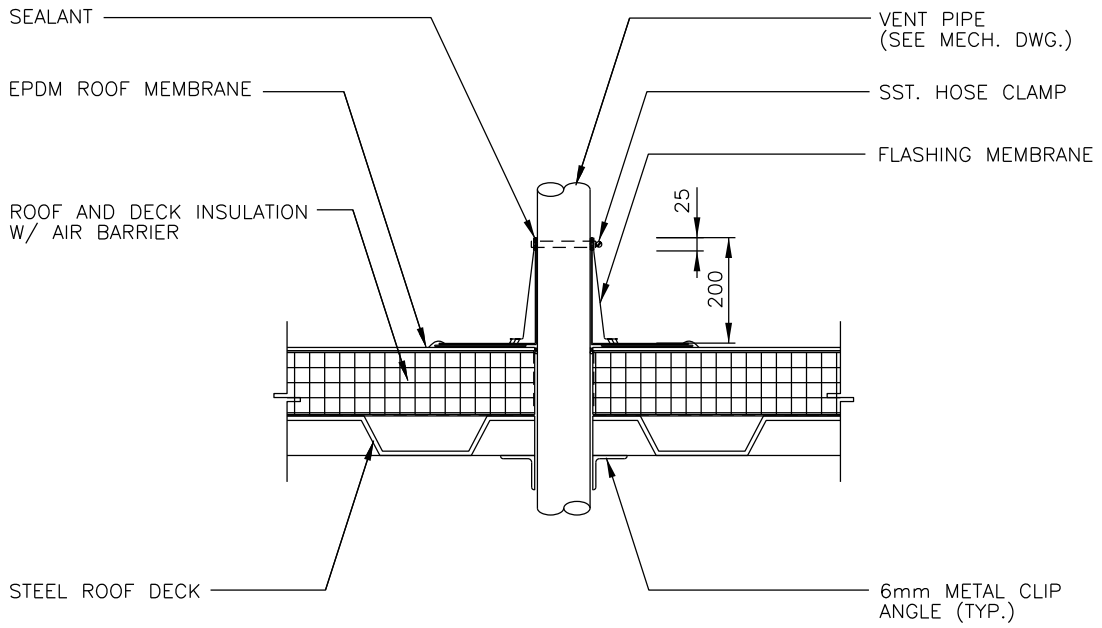
DWG NO.

TITLE

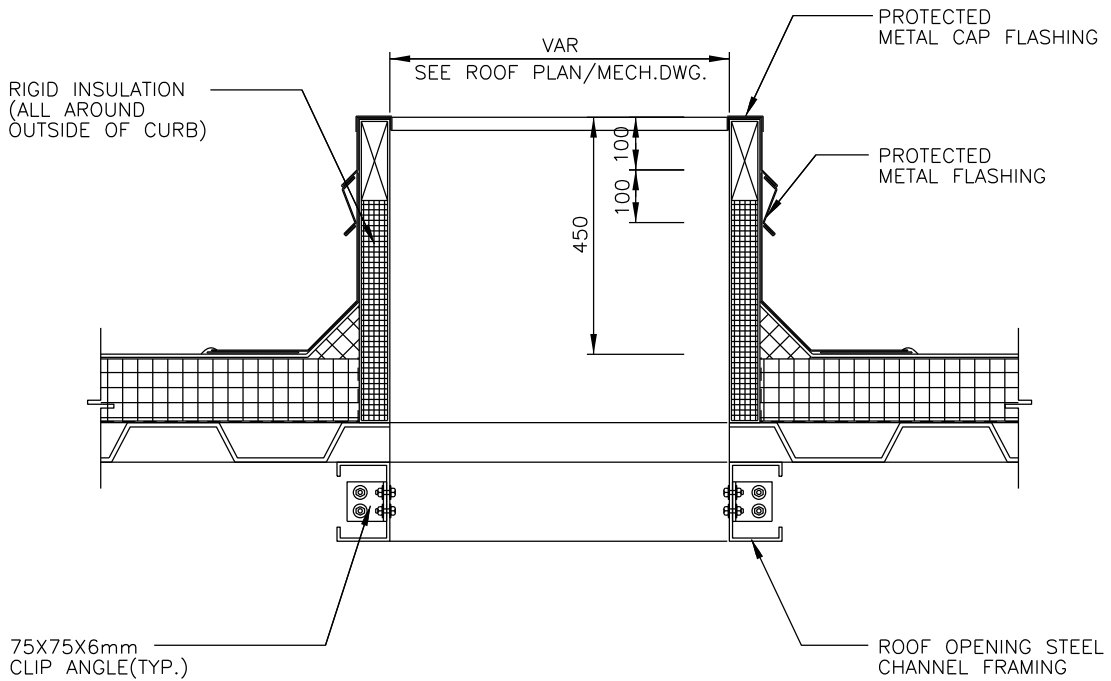
ETHYLENE PROPYLENE DIENE MONOMER - 1

075323

A - 801



C PIPE PENETRATION

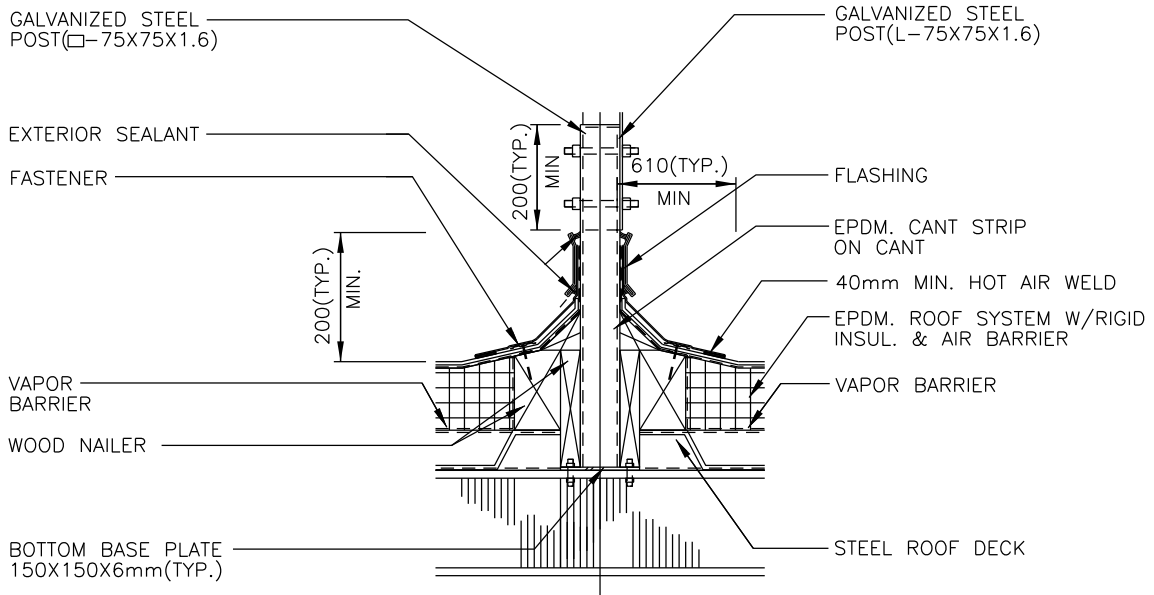


D ROOF PENETRATION DUCT FLASHING

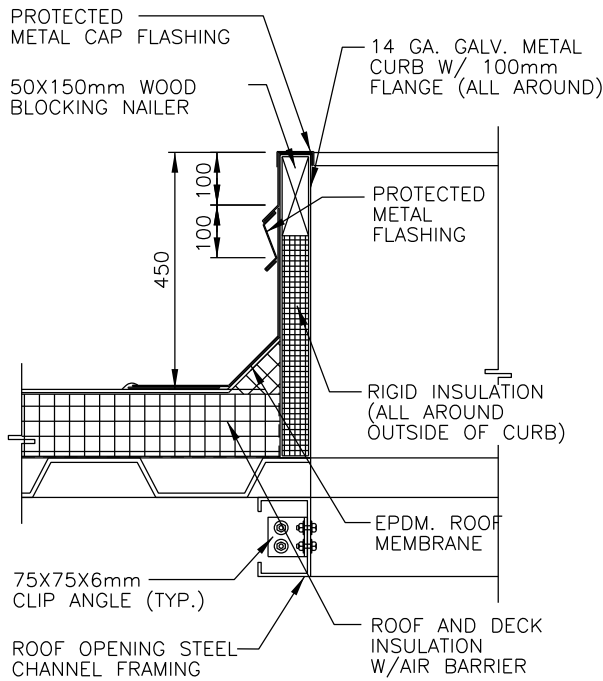
EPDM DETAIL
NOT TO SCALE

 <p>IMCOM</p>	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	ETHYLENE PROPYLENE DIENE MONOMER - 2	075323	A - 802

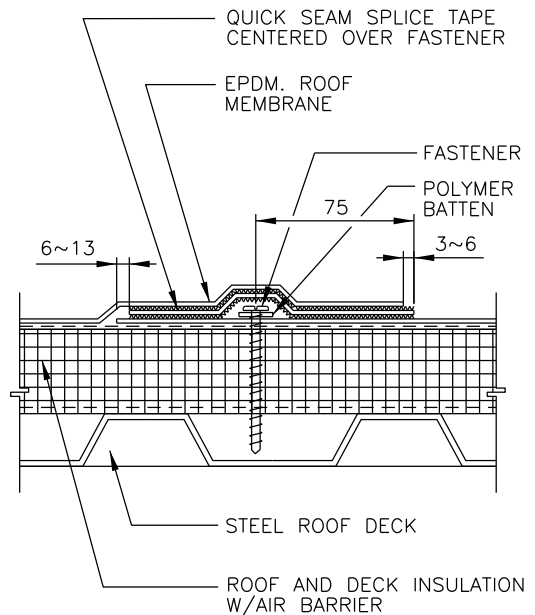
REV DATE: NOV 2015



(E) PANEL BOARD MOUNTING(TYP)



(F) CURB DETAIL



(G) EPDM JOINT

EPDM DETAIL
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

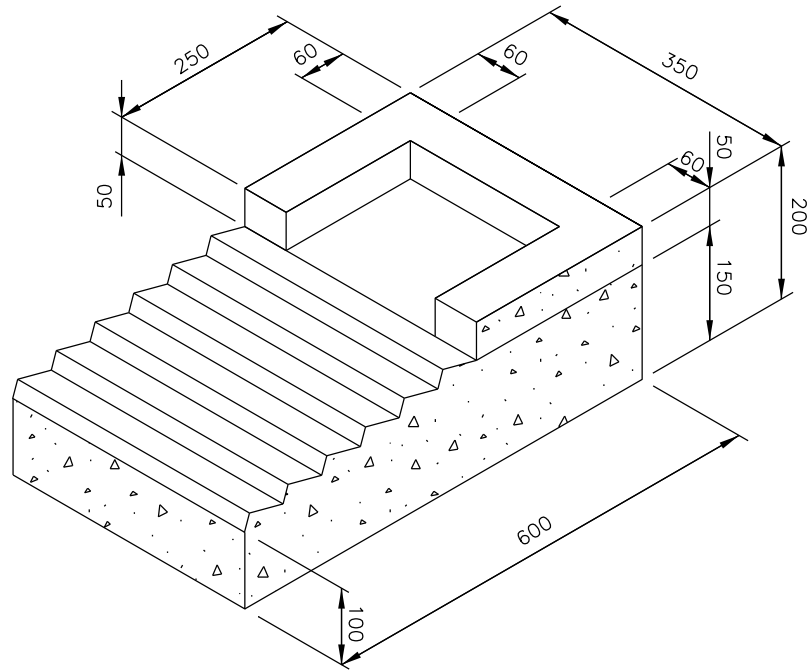
ETHYLENE PROPYLENE DIENE MONOMER - 3

OMA SPEC

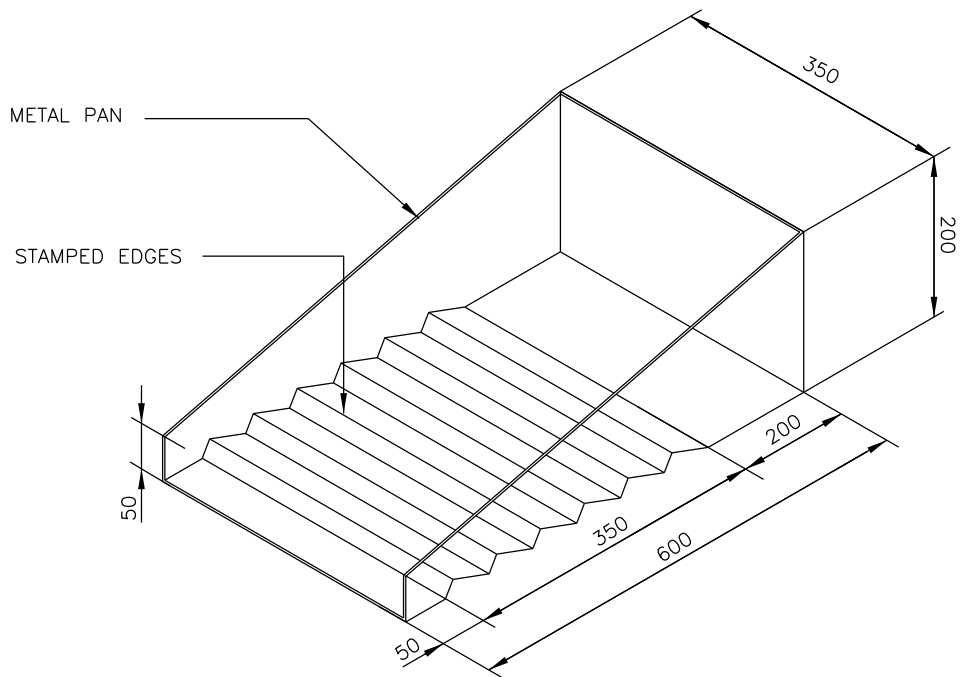
075323

DWG NO.

A - 803



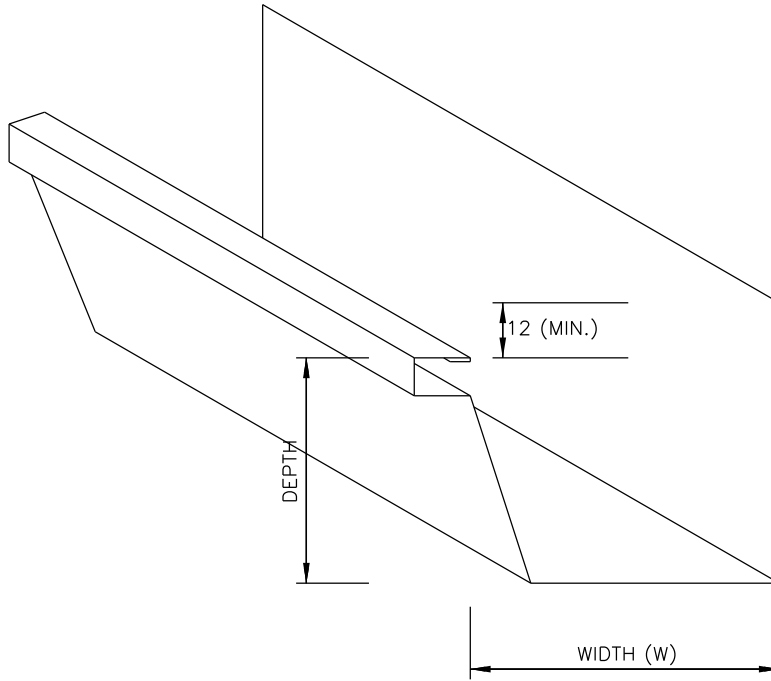
A CONC. SPLASH BLOCK



B MET. SPLASH PAN

SPLASH BLOCK DETAIL
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	SPLASH BLOCK DETAIL	076000	A - 901



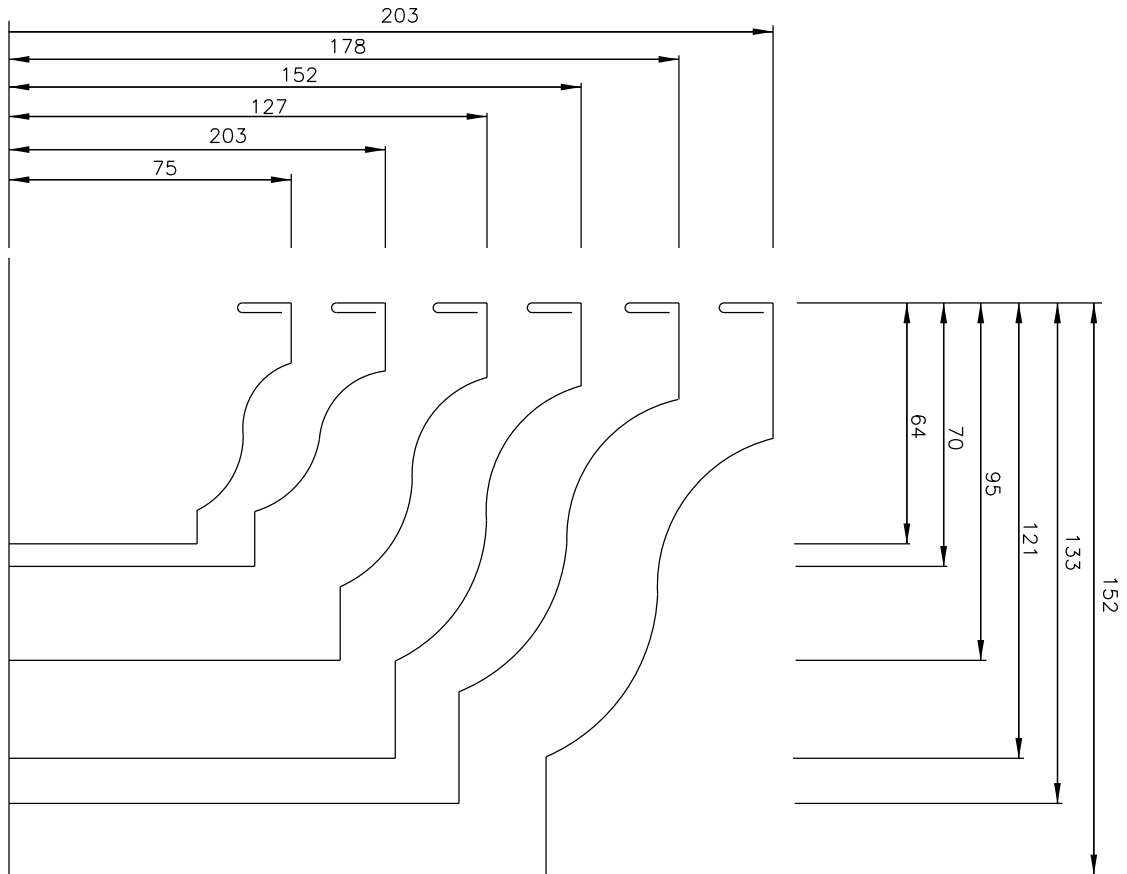
A RECTANGULAR GUTTER DESIGN

GIRTH (mm)	GALVANIZED STEEL (GAGE)	COPPER (OUNCES)	ALUMINUM (mm)	GALVANIZED STEEL (GAGE)
UP TO 380	26	16	0.812	26
380 TO 510	24	16	1.016	26
530 TO 640	22	20	1.295	24
660 TO 760	20	24	1.600	22
790 TO 890	18	24	-	20
OVER 890	16	-	-	18

B RECOMMENDED MINIMUM GAGES FOR GUTTER

GUTTER DETAIL
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	GUTTER DETAIL - 1	076000	A - 902

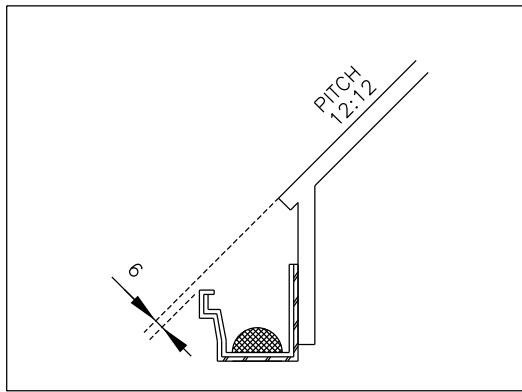


A RECTANGULAR GUTTER SIZE

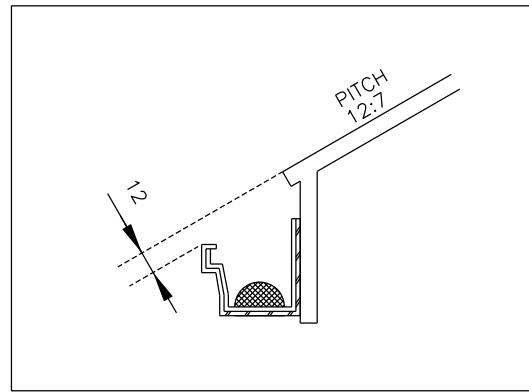
GUTTER DETAIL
 NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	GUTTER DETAIL - 2	076000	A - 903

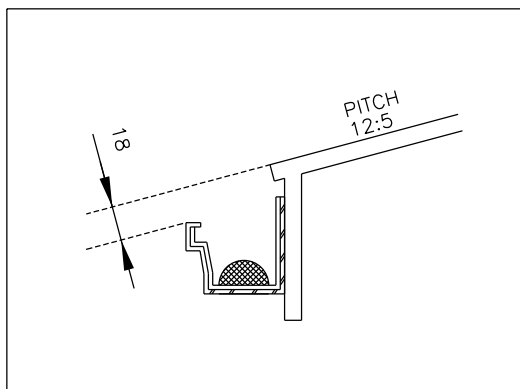
REV DATE: NOV 2015



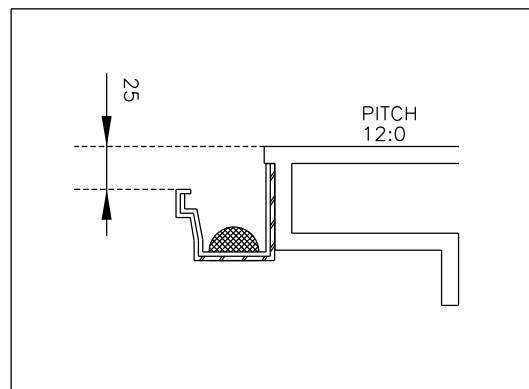
A 12:12



B 12:7



C 12:5



D 12:0

NOTES:

SNOW AND ICE CAN SLIDE OFF THE ROOF CLEAR OF THE GUTTER. STEEPER PITCH ROOFS REQUIRE LESS CLEARANCE

PROPERLY POSITION GUTTERS

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

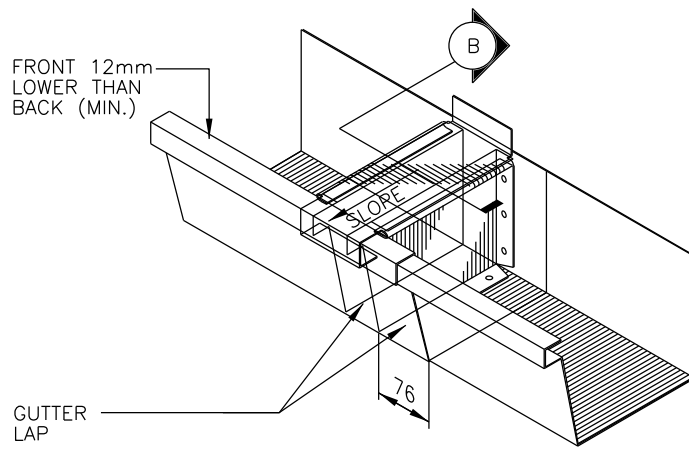
PROPERLY POSITION GUTTERS

OMA SPEC

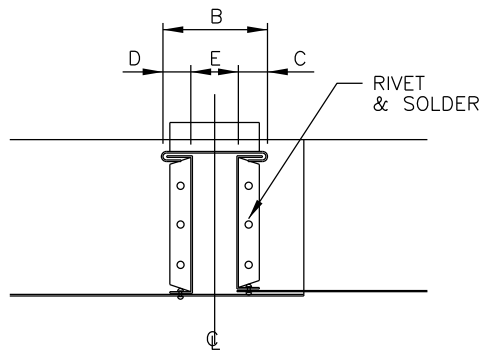
076000

DWG NO.

A - 904



A LAP TYPE GUTTER EXPANSION JOINT



B SECTION

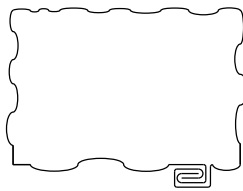
TEMP. °C	COPPER OR STAINLESS STEEL		ALUMINUM		STEEL		
	3M	15M	3M	15M	3M	15M	
E	77	2mm	5mm	2mm	5mm	2mm	5mm
	49	3mm	13mm	5mm	16mm	3mm	11mm
	38	5mm	16mm	5mm	21mm	3mm	13mm
	24	5mm	19mm	6mm	27mm	5mm	16mm
	1.7	6mm	24mm	8mm	35mm	5mm	19mm
	-17	6mm	29mm	10mm	43mm	5mm	21mm
B	50mm	83mm	70mm	114mm	44mm	64mm	
C	13mm	21mm	17mm	29mm	11mm	16mm	
D	13mm	21mm	17mm	29mm	11mm	16mm	

C INSTALLATION VALUE

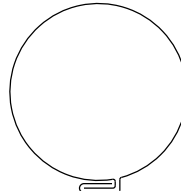
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	GUTTER EXPANSION JOINT	076000	A - 905



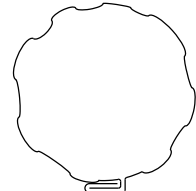
PLAIN
RECTANGULAR



CORRUGATED
RECTANGULAR

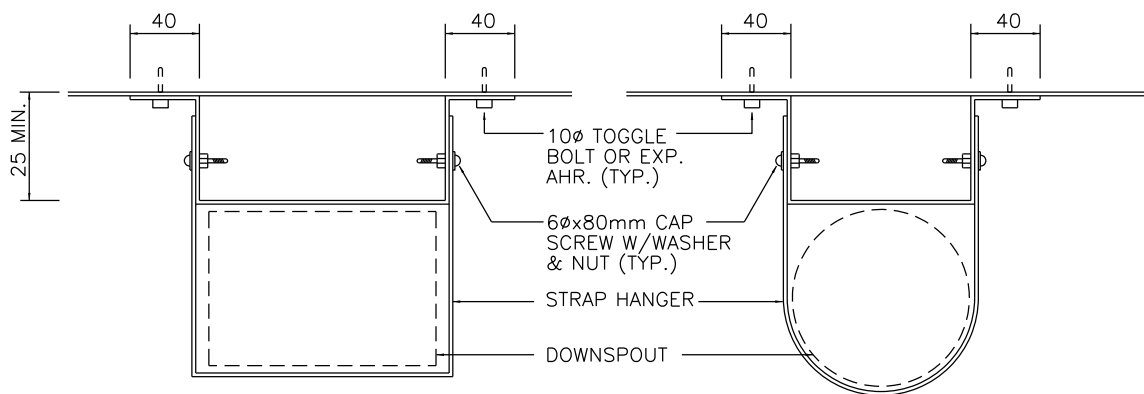


PLAIN
ROUND



CORRUGATED
ROUND

A DOWNSPOUT SHAPES

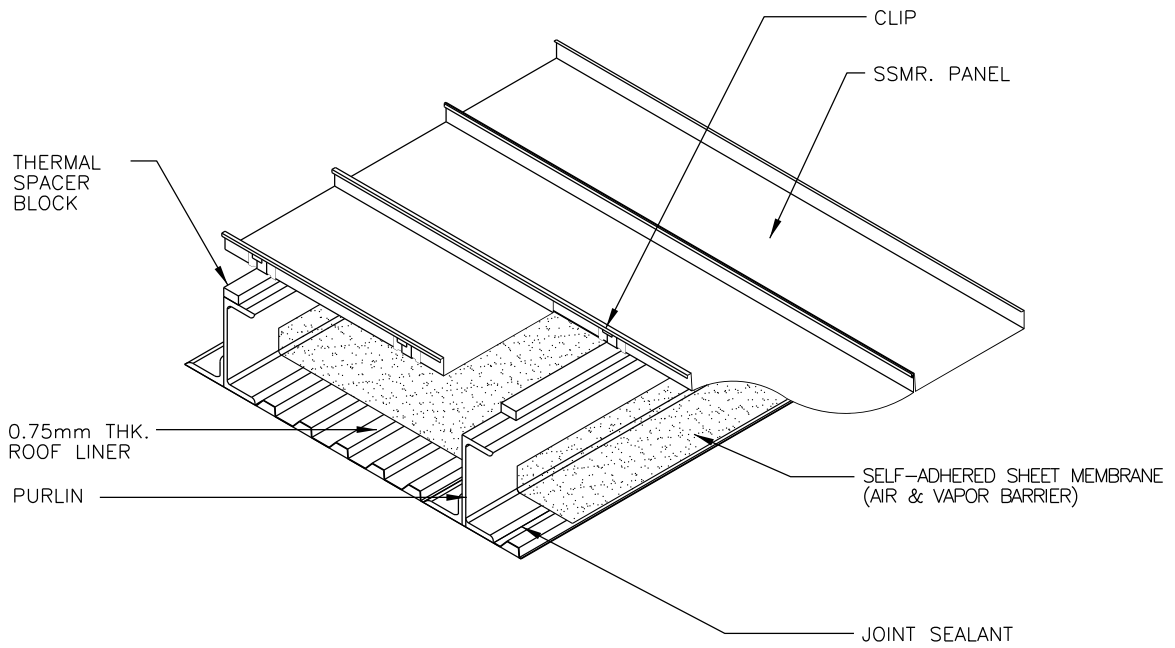


B DOWNSPOUT HANGER

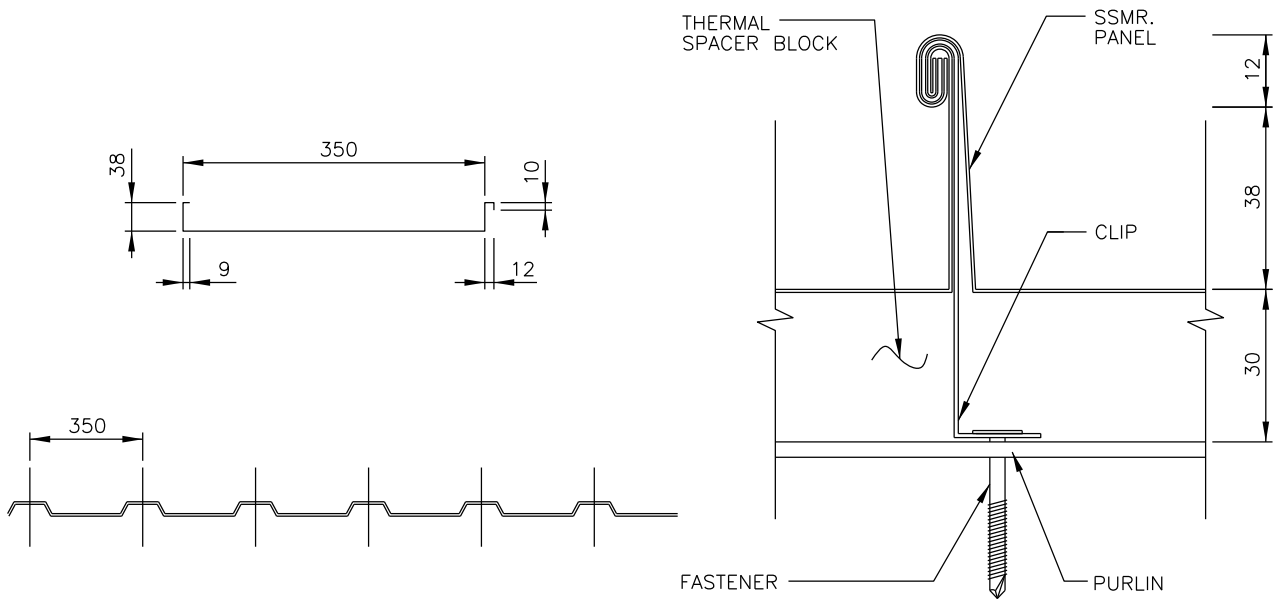
TYPE	AREA	NOMINAL SIZE	ACTUAL SIZE	GALVANIZED STEEL	STAINLESS STEEL	ALUMINUM	COPPER
	100SQ.mm	mm	mm	GA	GA	mm	OZ
PLAIN ROUND	46		75	26	28	0.635	16
	81		100				
	127		127				
	182		152				
CORRUGATED ROUND	38	75		26	28	0.635	16
	71	100					
	114	127					
	168	152					
PLAIN RECTANGULAR	25	50	44X57	26	28	0.635	16
	39	75	50X75				
	77	100	75X100				
	129	127	95X121				
	155	152	102X152				
RECTANGULAR CORRUGATED	25	50	44X57	26	28	0.635	16
	25	75	60X83				
	25	127	70X108				
	25	127	95X127				

C DIMENSIONS AND MINIMUM GAGES

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	DOWNSPOUT DETAIL	076000	A - 906



A ISOMETRIC

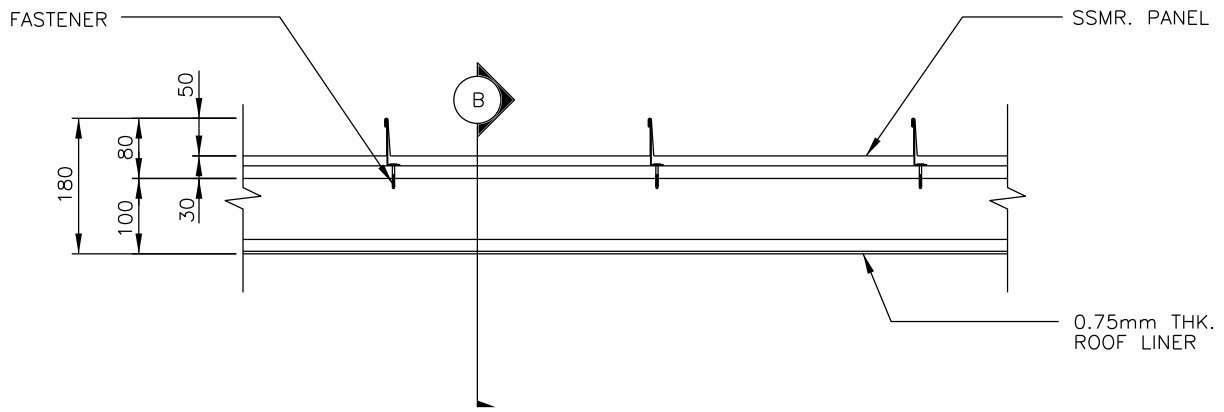


B PANEL & LINER

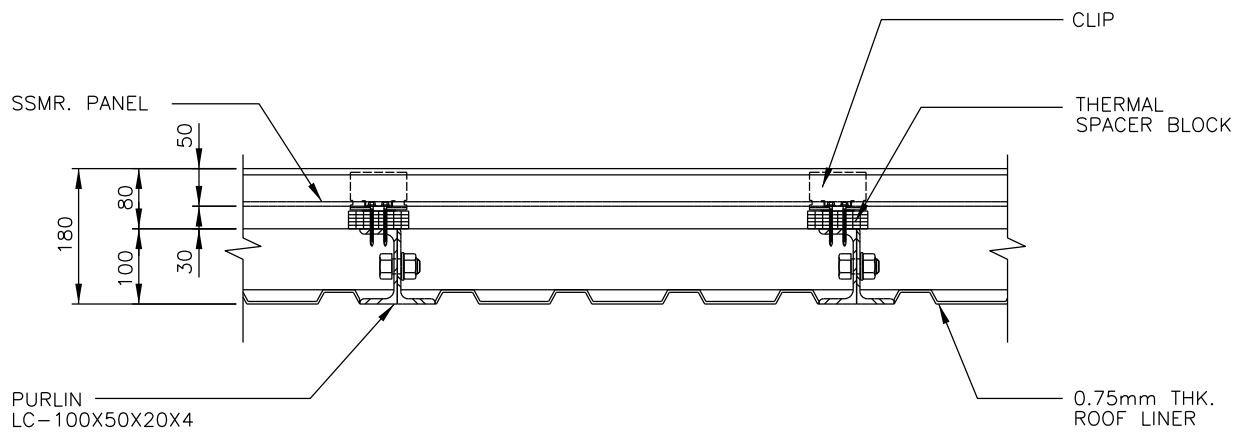
C STANDING SEAM

STRUCTURAL STANDING SEAM METAL ROOF
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	STRUCTURAL STANDING SEAM METAL ROOF - 1	076114	A - 1001



(A) PANEL & LINER SHAPE - 1

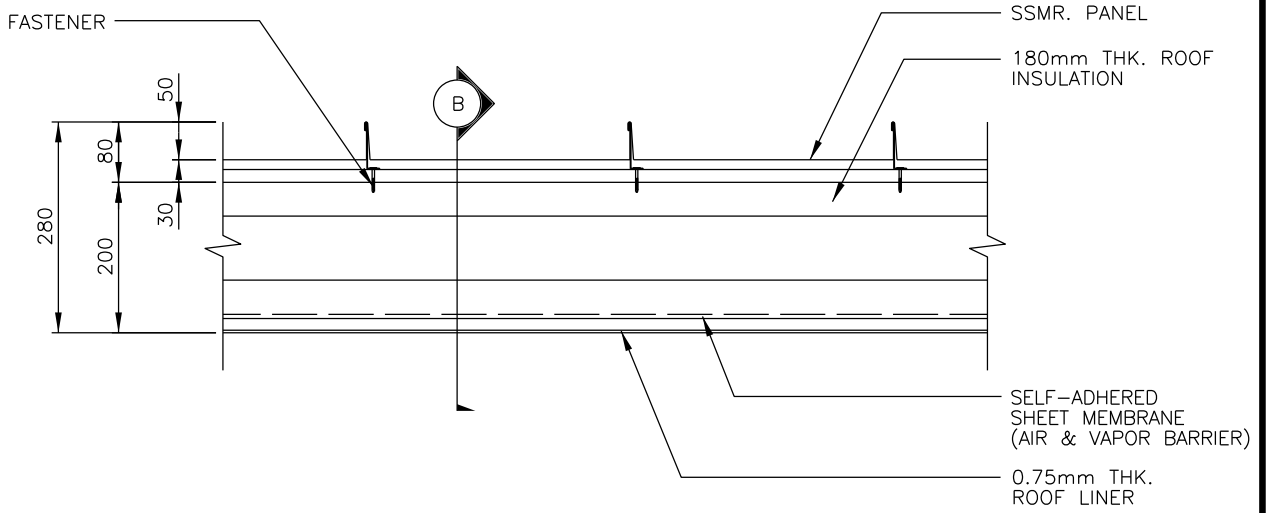


(B) SECTION

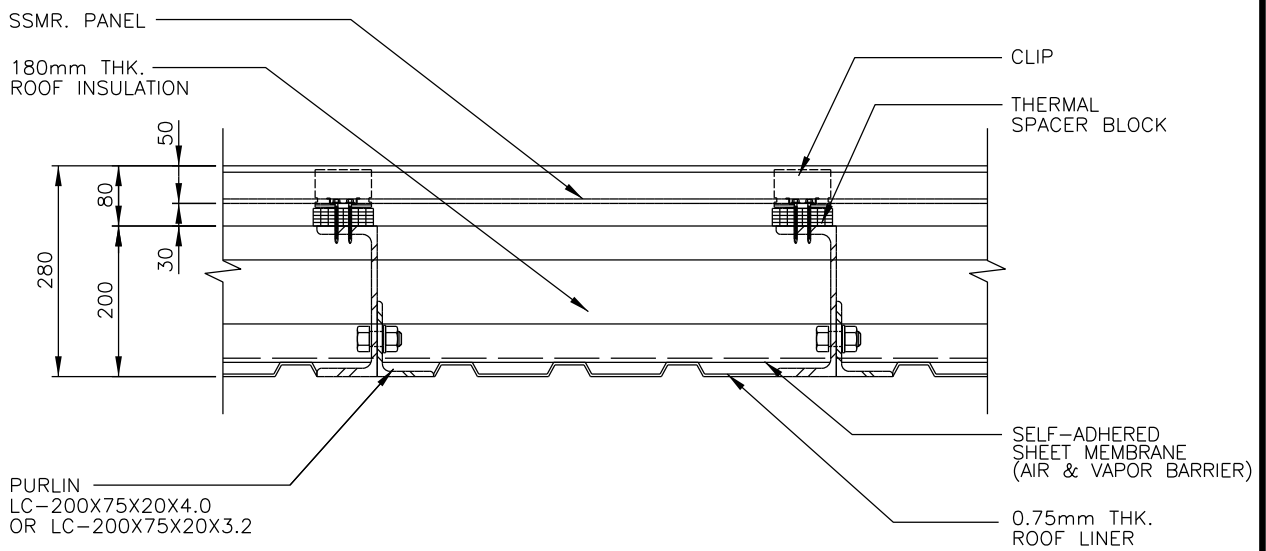
STRUCTURAL STANDING SEAM METAL ROOF
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	STRUCTURAL STANDING SEAM METAL ROOF - 2	076114	A - 1002

REV DATE: NOV 2015



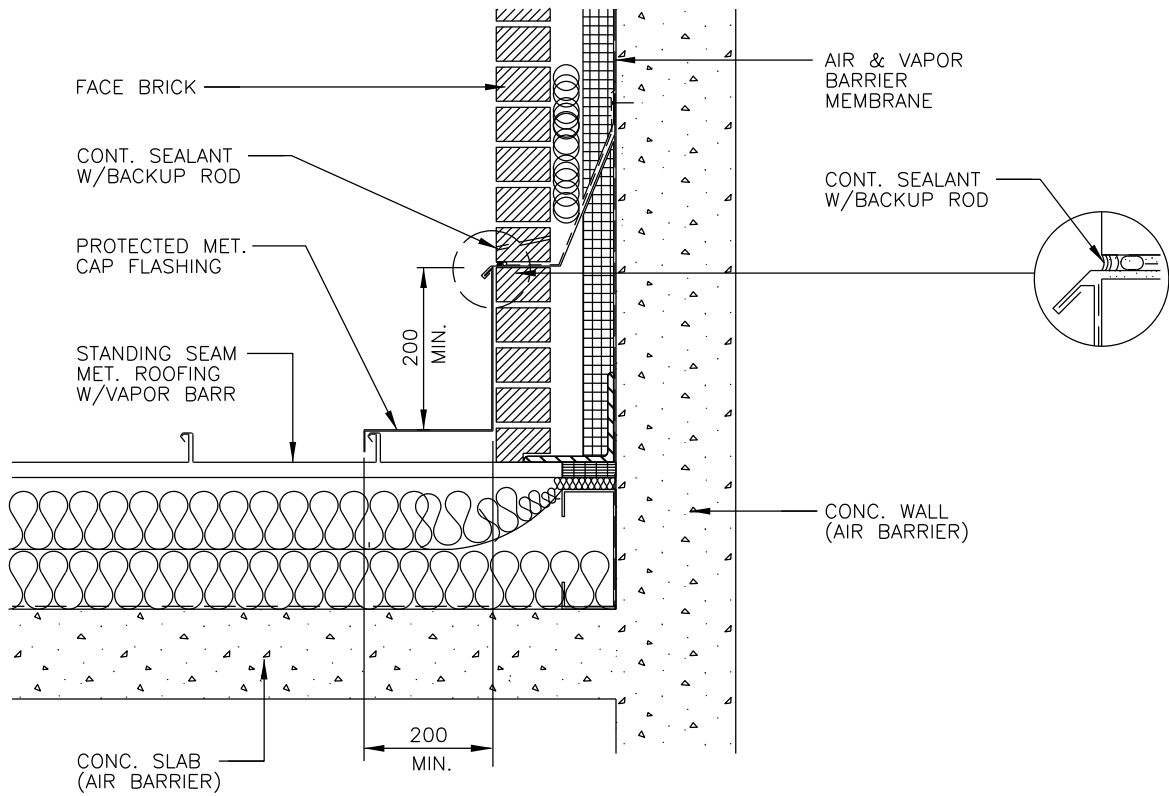
A PANEL & LINER SHAPE - 2



B SECTION

STRUCTURAL STANDING SEAM METAL ROOF
NOT TO SCALE

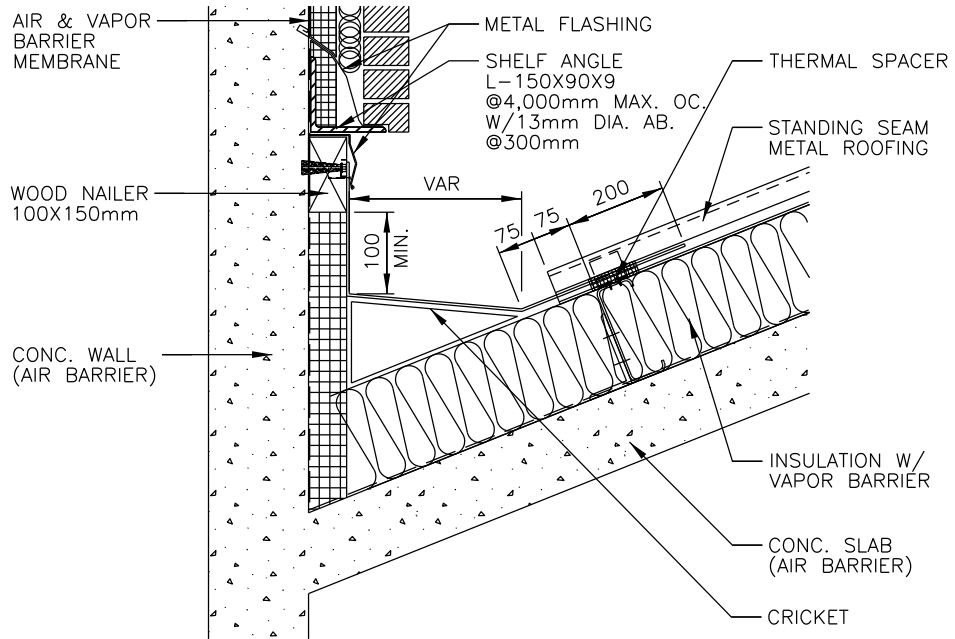
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	STRUCTURAL STANDING SEAM METAL ROOF - 3	076114	A - 1003



THROUGH WALL FLASHING
 NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	THROUGH WALL FLASHING SSSMR & BRICK VENEER	076114	A - 1004

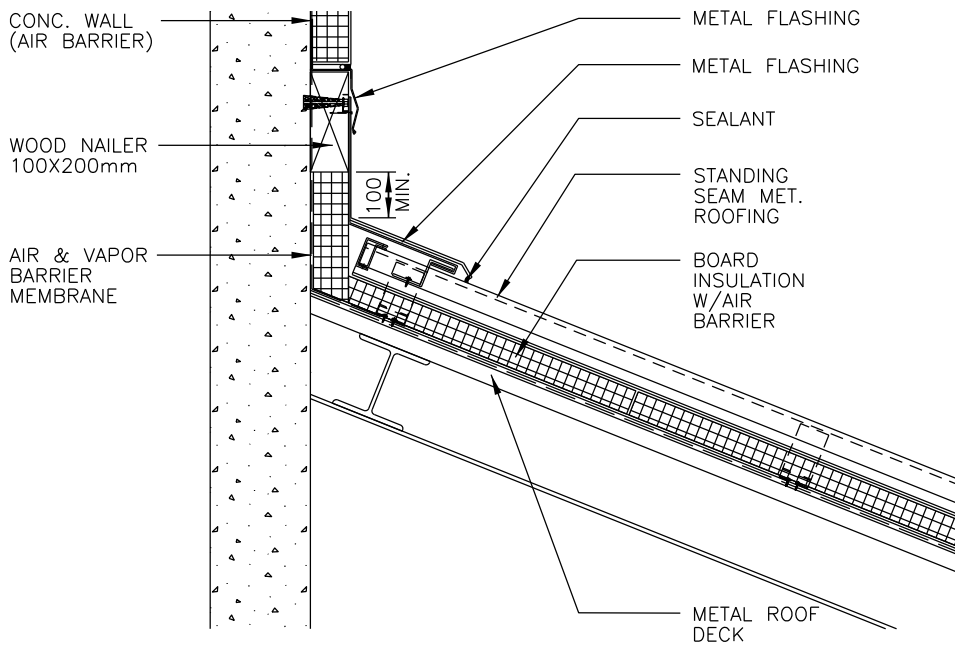
REV DATE: NOV 2015



ROOF FLASHING – CRICKET
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	ROOF FLASHING - CRICKET	076114	A - 1005

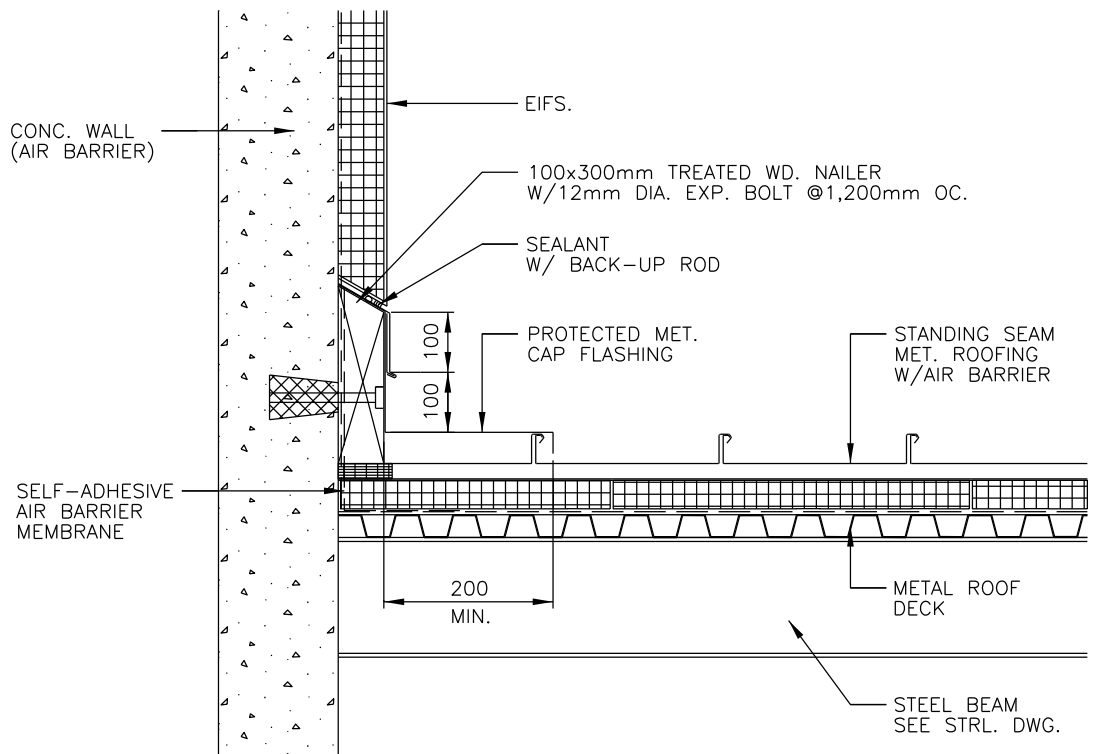
REV DATE: NOV 2015



ROOF FLASHING
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	ROOF FLASHING	076114	A - 1006

REV DATE: NOV 2015

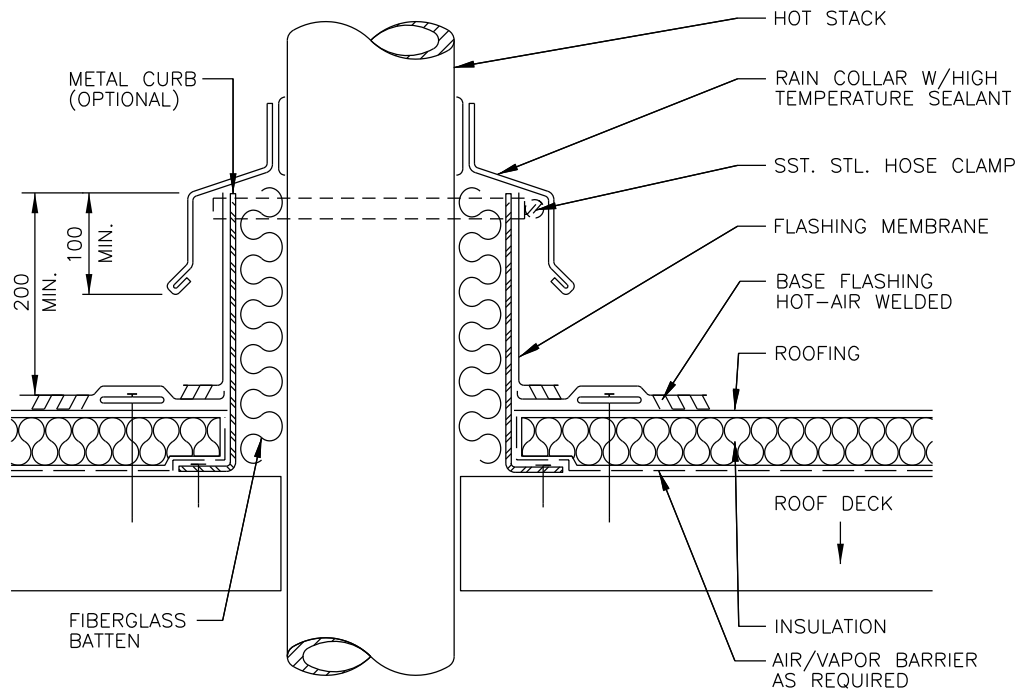


ROOF FLASHING – SSSMR& EIFS.

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	ROOF FLASHING - SSSMR & EIFS.	076114	A - 1007

REV DATE: NOV 2015

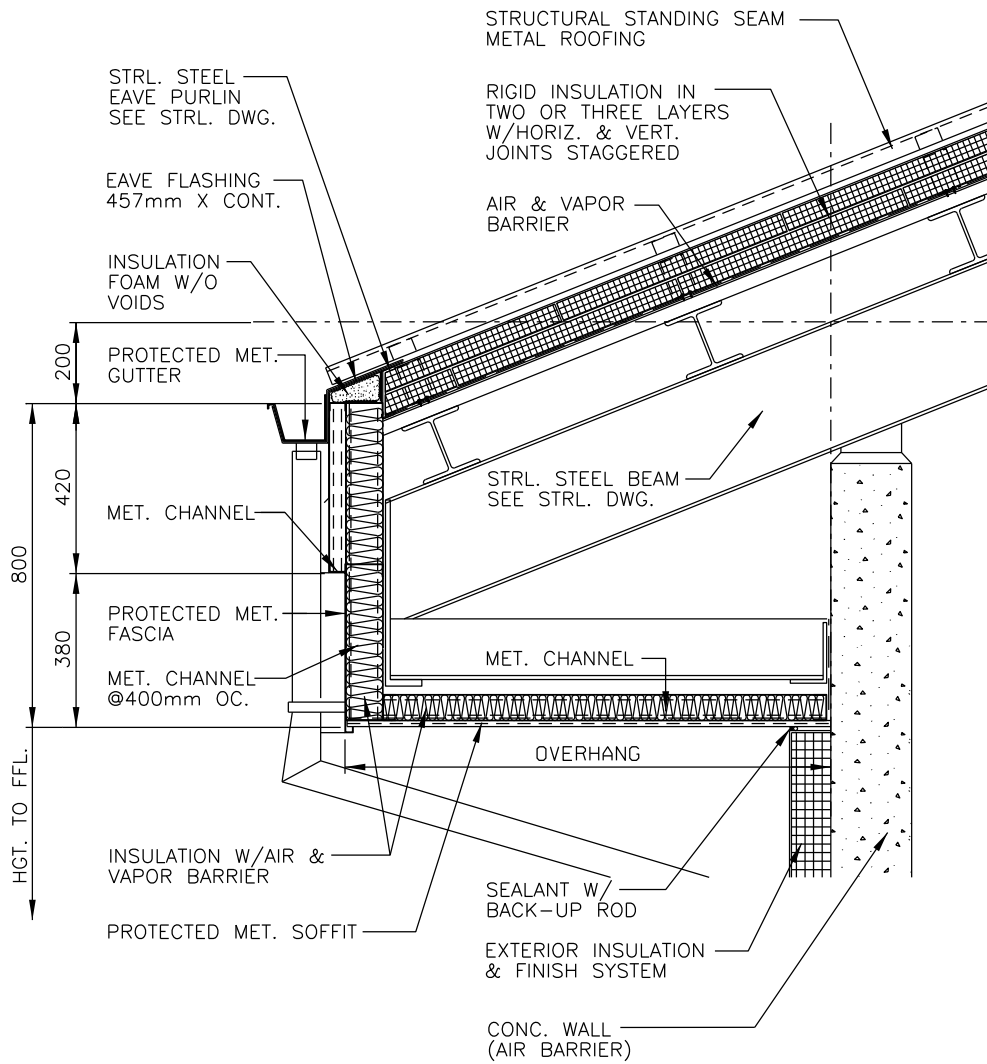


NOTES:

- 1) SARNAFIL MEMBRANE SHALL NOT BE IN CONTACT WITH SURFACES HAVING SUSTAINED TEMPERATURES ABOVE 160°F.
- 2) AIR/VAPOR BARRIER SHALL BE SEALED AT EDGES

ROOF PENETRATION
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	ROOF PENETRATION HEATED STACK FLASHING	076114	A - 1008

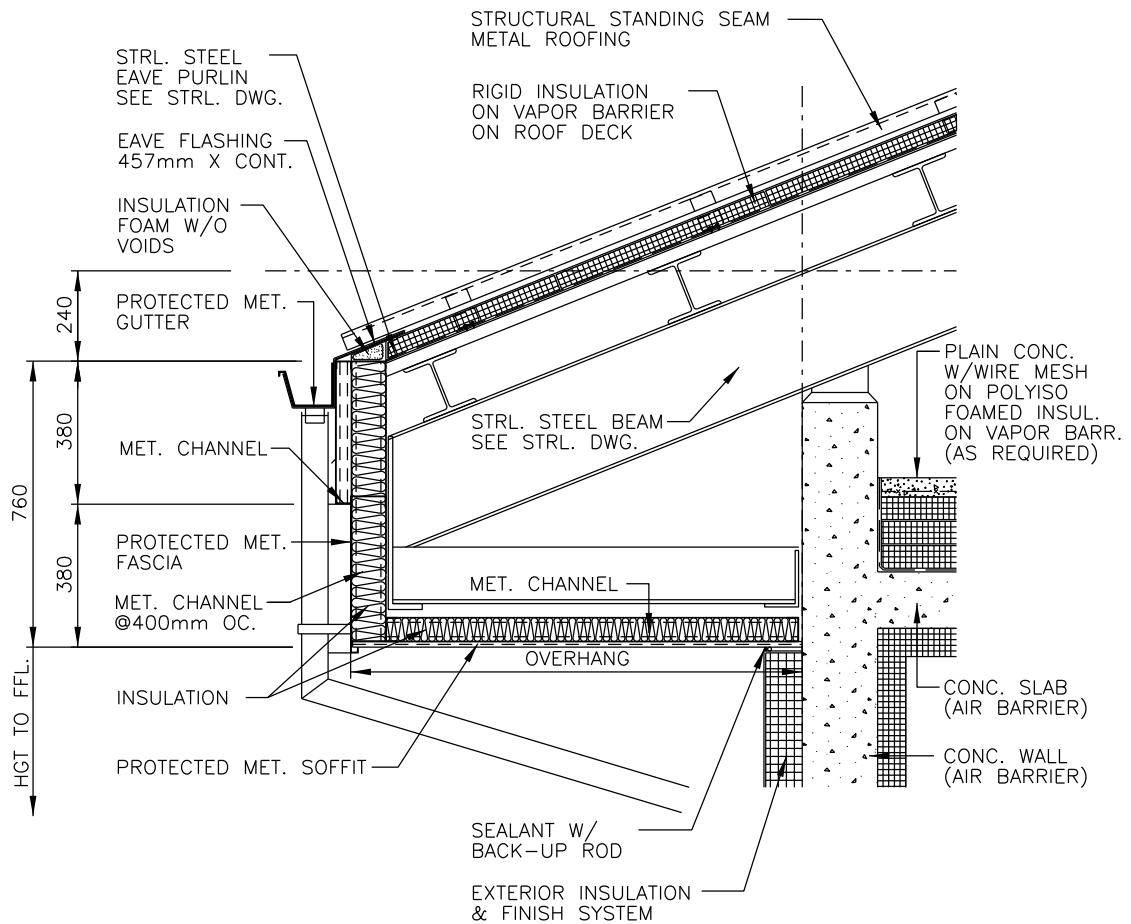


NOTE:

APPLY MOISTURE BARRIER MEMBRANE ON BACKING WALL WHEN DRAINABLE TYPE EIFS WILL BE INSTALLED.

ROOF-WALL INTERSECTION
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	ROOF-WALL INTERSECTION SSSMR & EIFS.	076114	A - 1009



NOTE:

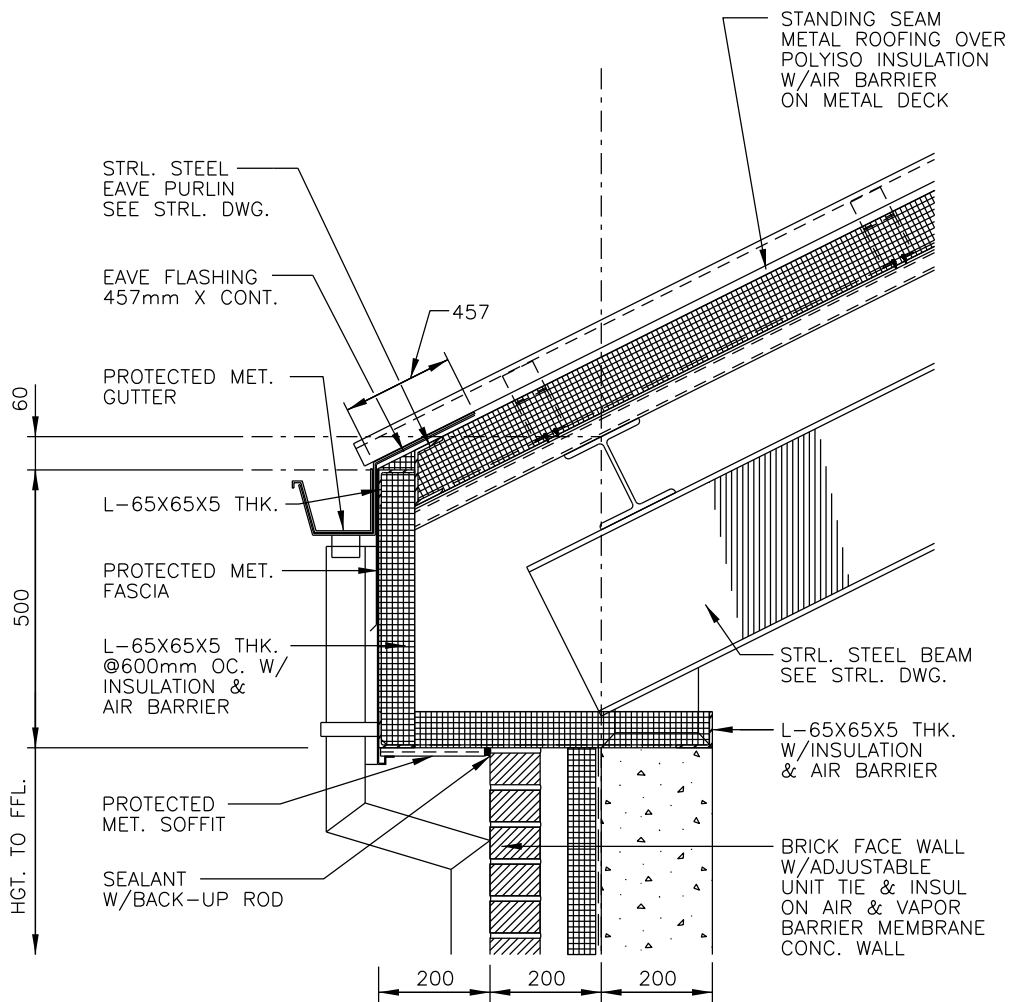
APPLY MOISTURE BARRIER MEMBRANE ON BACKING WALL WHEN DRAINABLE TYPE EIFS WILL BE INSTALLED.

ROOF-WALL INTERSECTION

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	ROOF-WALL INTERSECTION W/ATTIC SSSMR & EIFS.	076114	A - 1010

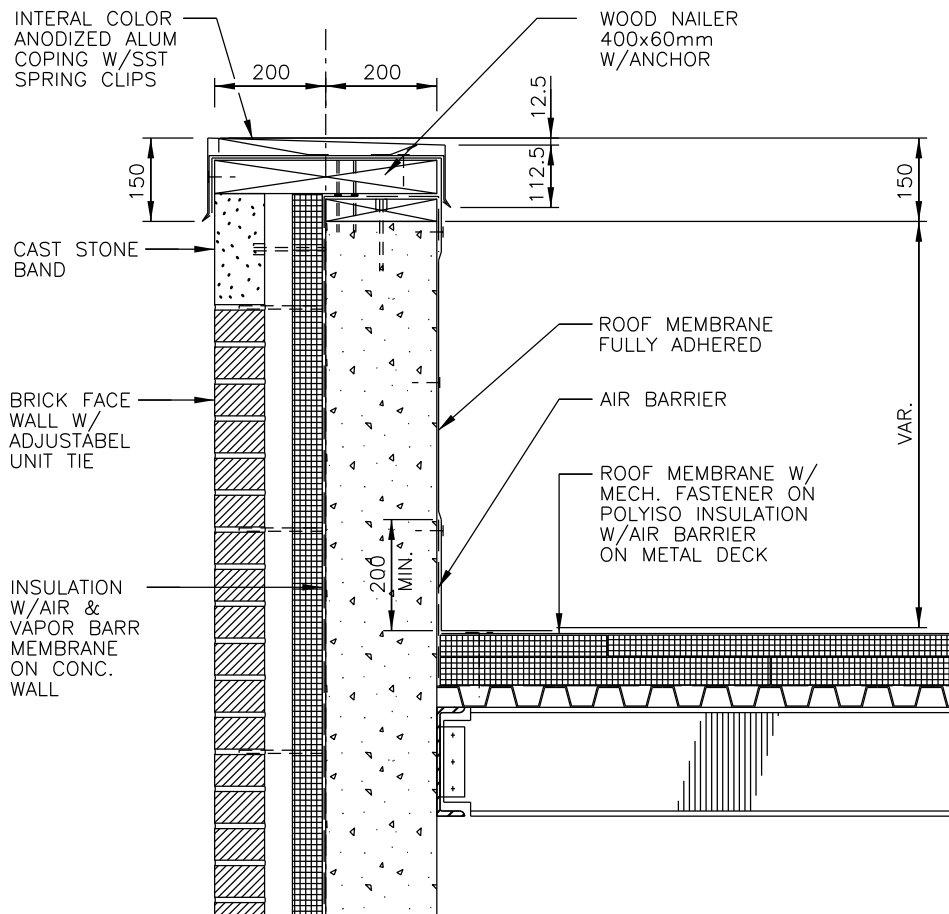
REV DATE: NOV 2015



ROOF-WALL INTERSECTION
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	ROOF-WALL INTERSECTION SSSMR & BRICK VENEER WALL	076114	A - 1011

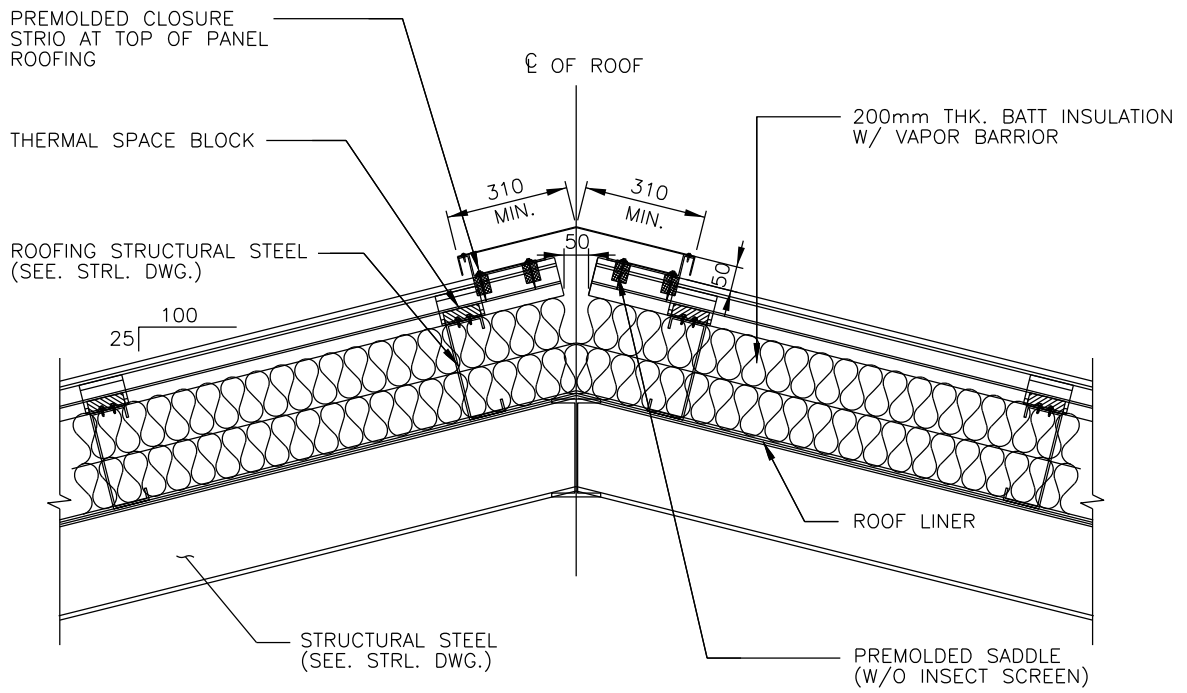
REV DATE: NOV 2015



ROOF-WALL INTERSECTION
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	ROOF-WALL INTERSECTION MEMBRANE ROOFING & BRICK VENEER	076114	A - 1012

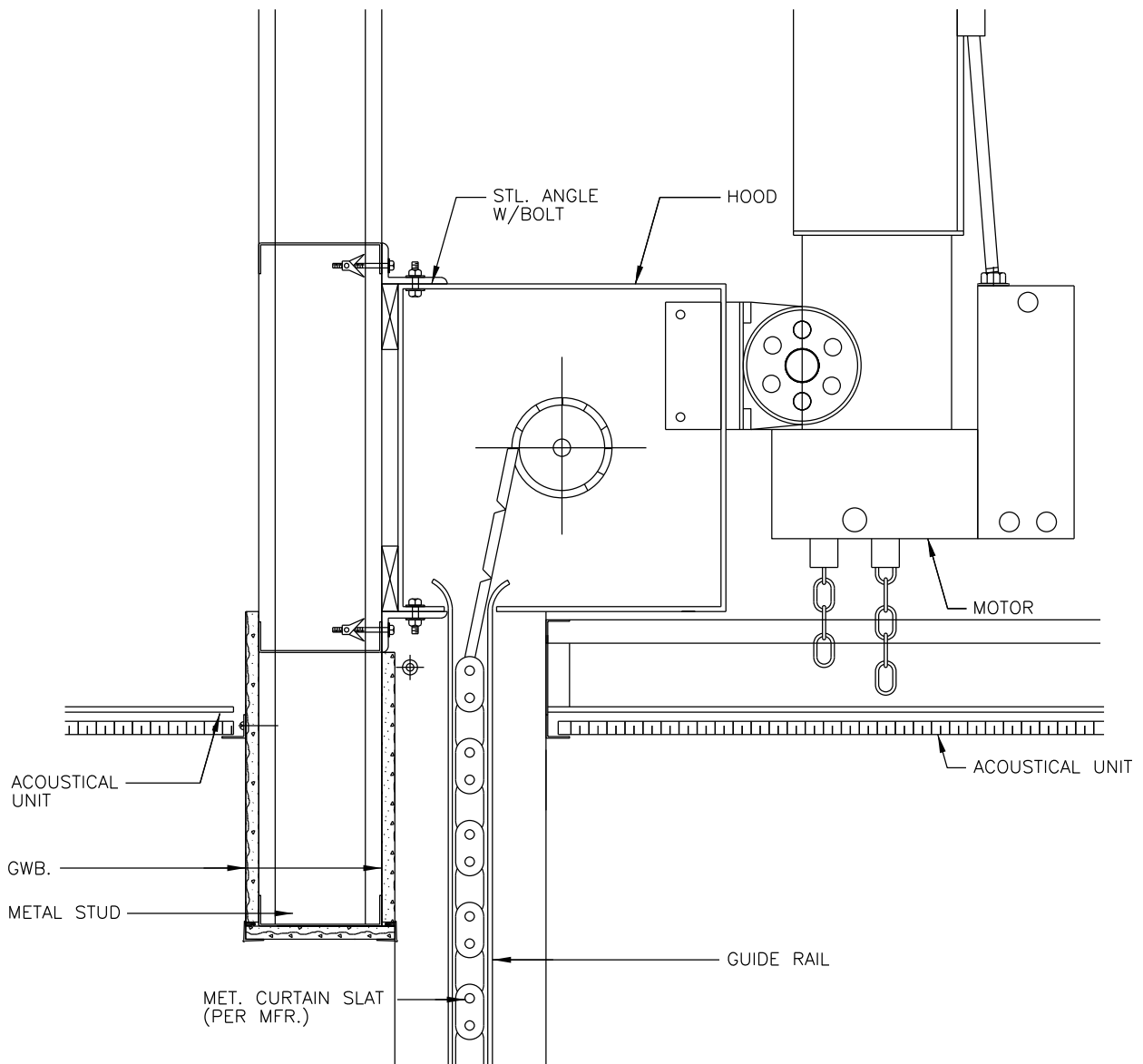
REV DATE: NOV 2015



RIDGE CAP DETAIL
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	RIDGE CAP DETAIL	076114	A - 1013

REV DATE: NOV 2015

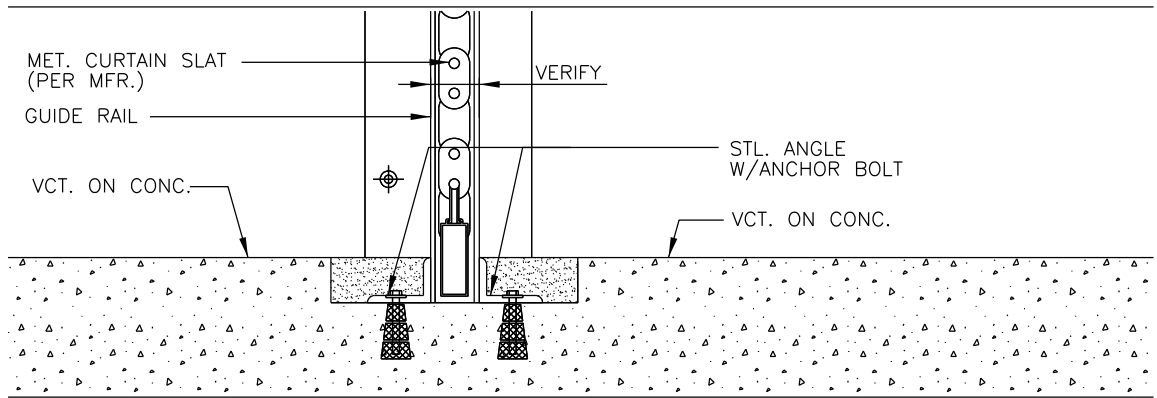


OVERHEAD CIOLING DOOR DETAIL

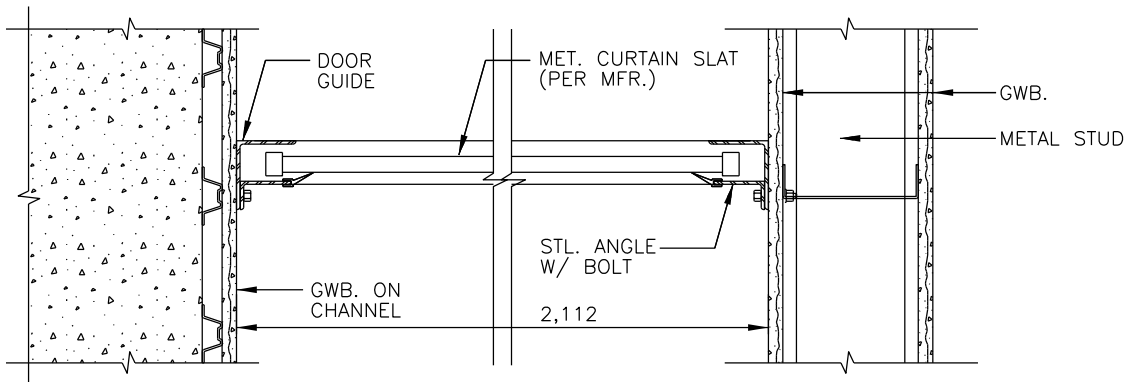
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	OVERHEAD CIOLING DOOR DETAIL - 1	083323	A - 1101

REV DATE: NOV 2015



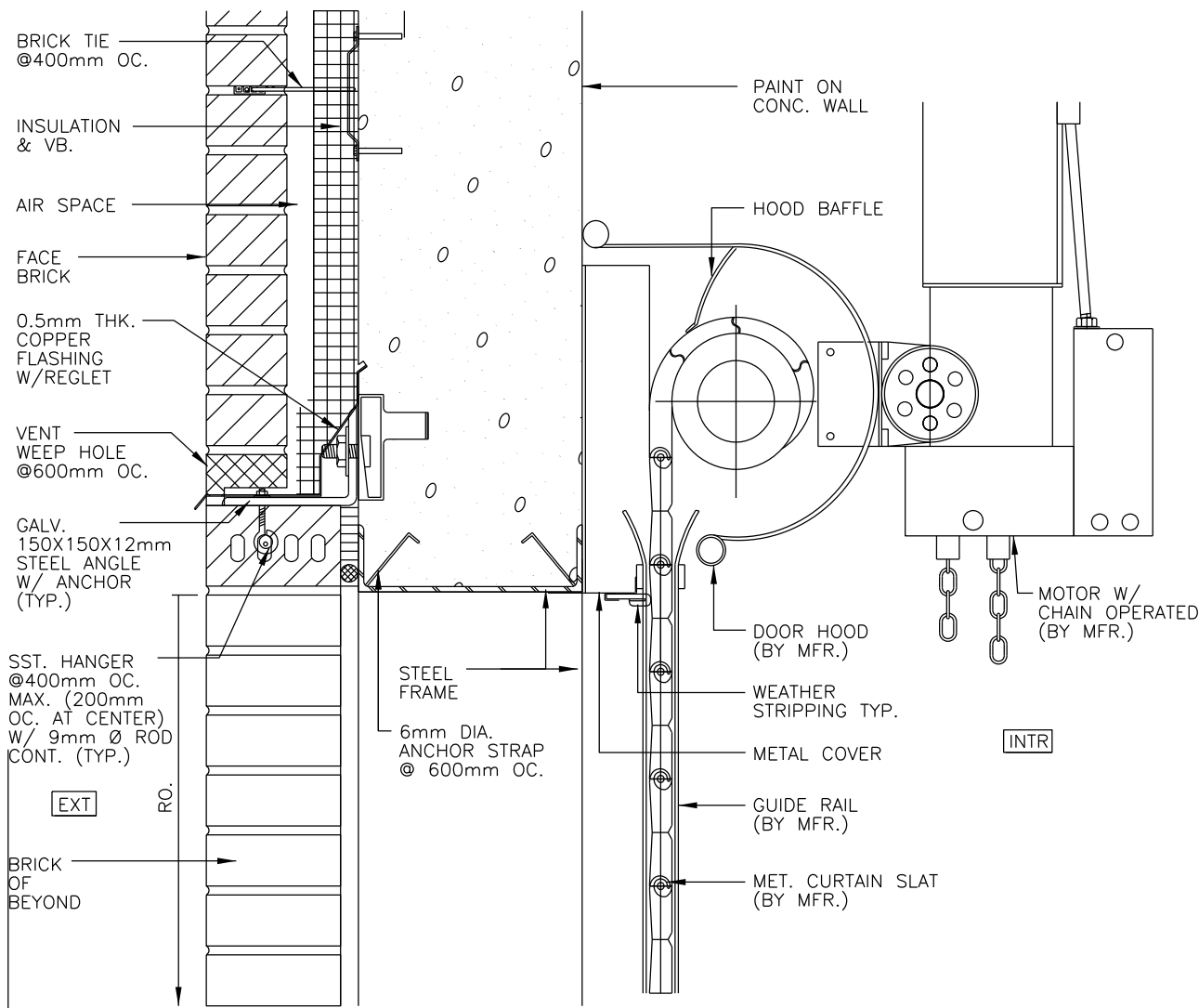
A SILL



B JAMB

OVERHEAD CIOLING DOOR DETAIL
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	OVERHEAD CIOLING DOOR DETAIL - 2	083323	A - 1102

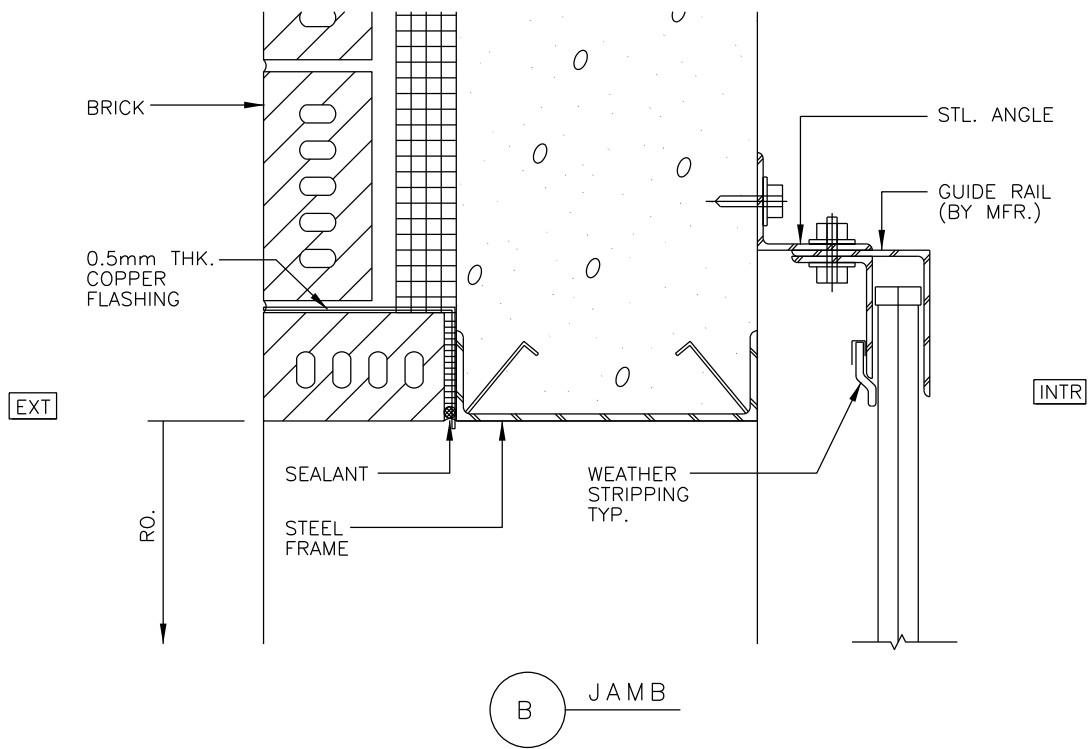
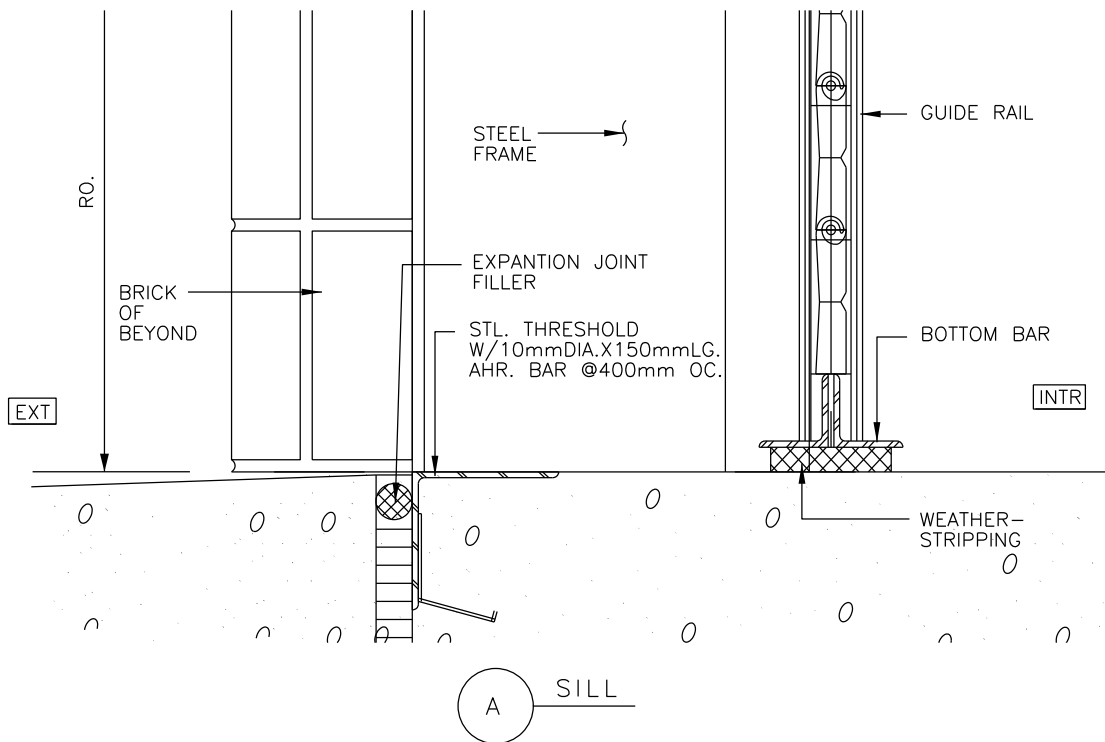


OVERHEAD CIOLING DOOR DETAIL

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	OVERHEAD COILING DOOR DETAIL - 3	083323	A - 1103

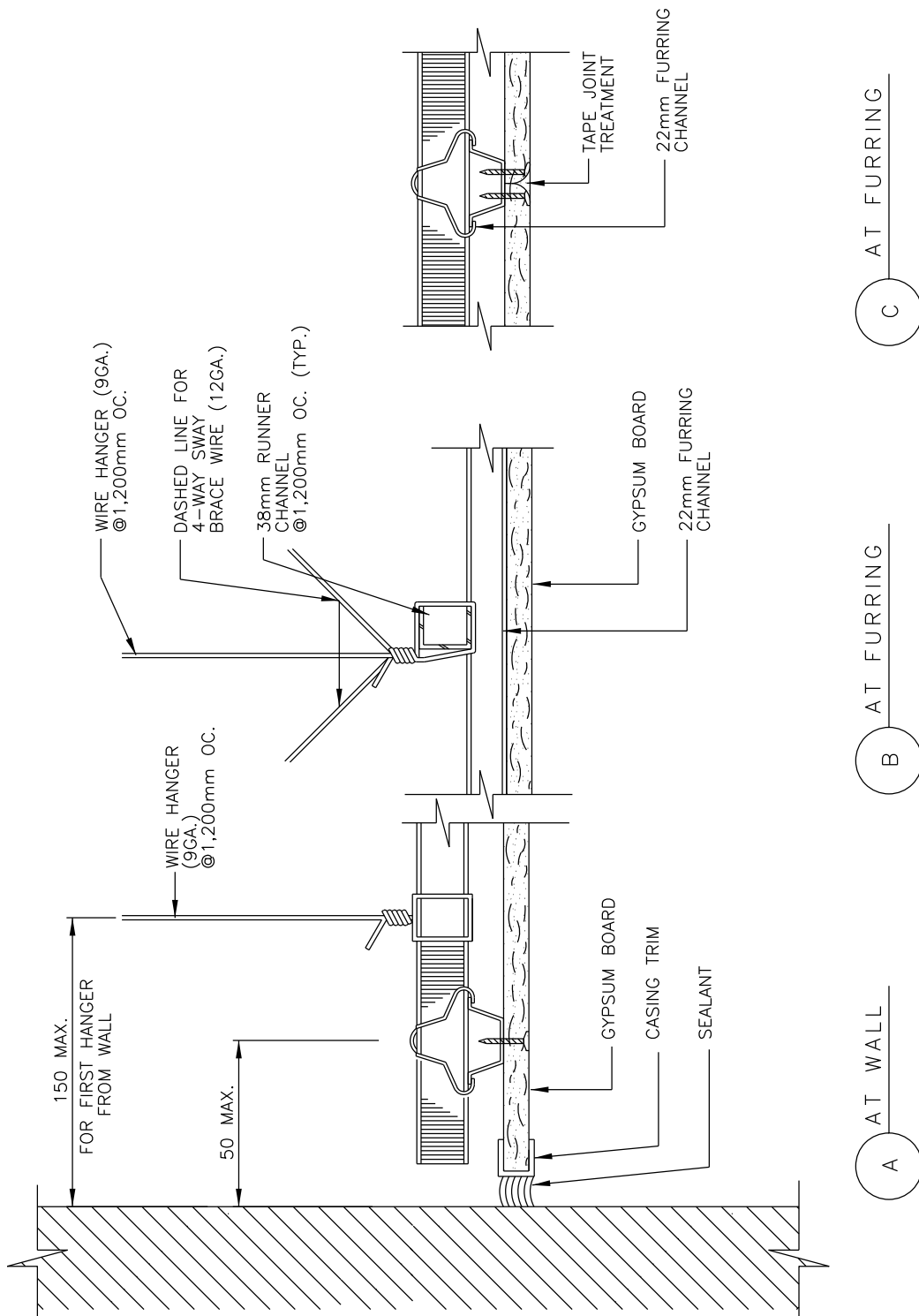
REV DATE: NOV 2015



OVERHEAD COILING DOOR DETAIL
NOT TO SCALE

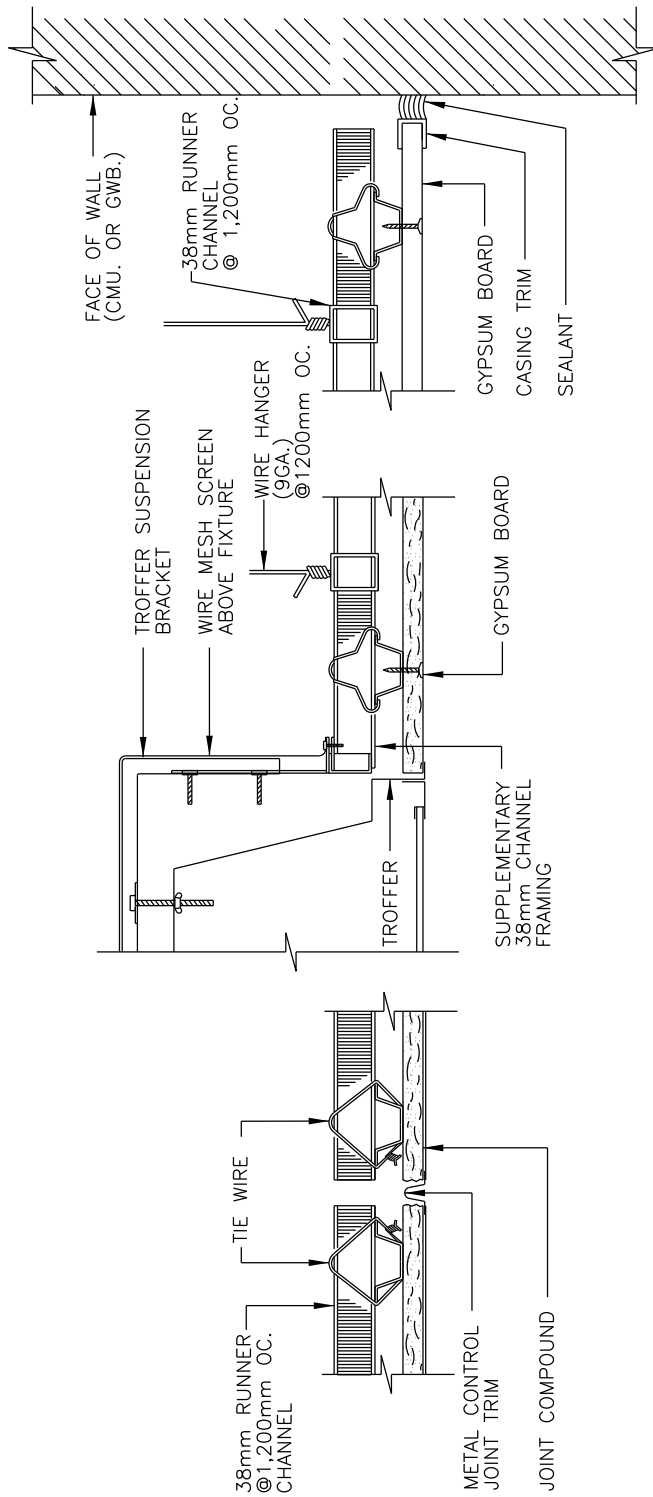
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	OVERHEAD COILING DOOR DETAIL - 4	083323	A - 1104

REV DATE: NOV 2015



GYPSUM BOARD CEILING DETAIL
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	GYPSUM BOARD CEILING DETAILS - 1	092900	A - 1201



GYPSUM BOARD CEILING DETAIL
NOT TO SCALE

NOTES:

1. CONTROL JOINT SHALL COMPLY WITH ASTM C840.
2. SEISMIC DESIGN SHALL COMPLY WITH UFC 3-310-04.
3. A CONTROL JOINT SHALL BE INSTALLED WHERE A CEILING TRAVERSES A CONSTRUCTION JOINT (EXPANSION, SEISMIC, OR BUILDING CONTROL ELEMENT) IN THE BASE BUILDING STRUCTURE.
4. CONTROL JOINTS IN INTERIOR CEILINGS WITH PERIMETER RELIEF SHALL BE INSTALLED SO THAT LINEAR DIMENSIONS BETWEEN CONTROL JOINTS DO NOT EXCEED 15M AND TOTAL AREA BETWEEN CONTROL JOINTS DOES NOT EXCEED 230SM.
5. CONTROL JOINTS IN INTERIOR CEILINGS WITHOUT PERIMETER RELIEF SHALL BE INSTALLED SO THAT LINEAR DIMENSIONS BETWEEN CONTROL JOINTS DO NOT EXCEED 9.1M AND TOTAL AREA BETWEEN CONTROL JOINTS DOES NOT EXCEED 84SM.

D AT CONTROL JOINT

E AT LIGHTING FIXTURE

F AT WALL



O&MA STANDARD DETAILS, KOREA

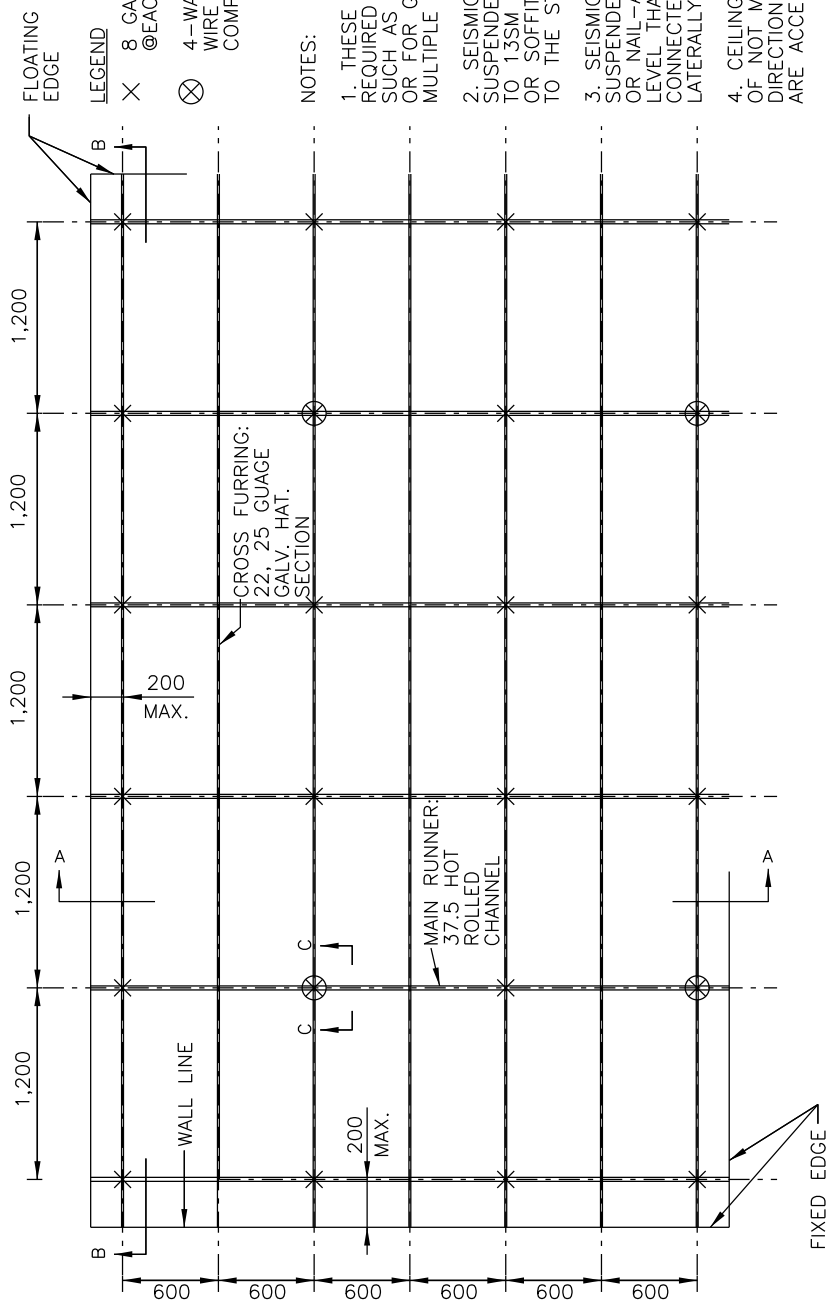
TITLE GYPSUM BOARD CEILING DETAILS - 2

OMA SPEC

092900

DWG NO.

A - 1202



LEGEND

X 8 GA. HANGER WIRES 1,200mm OC.
@EACH MAIN RUNNER

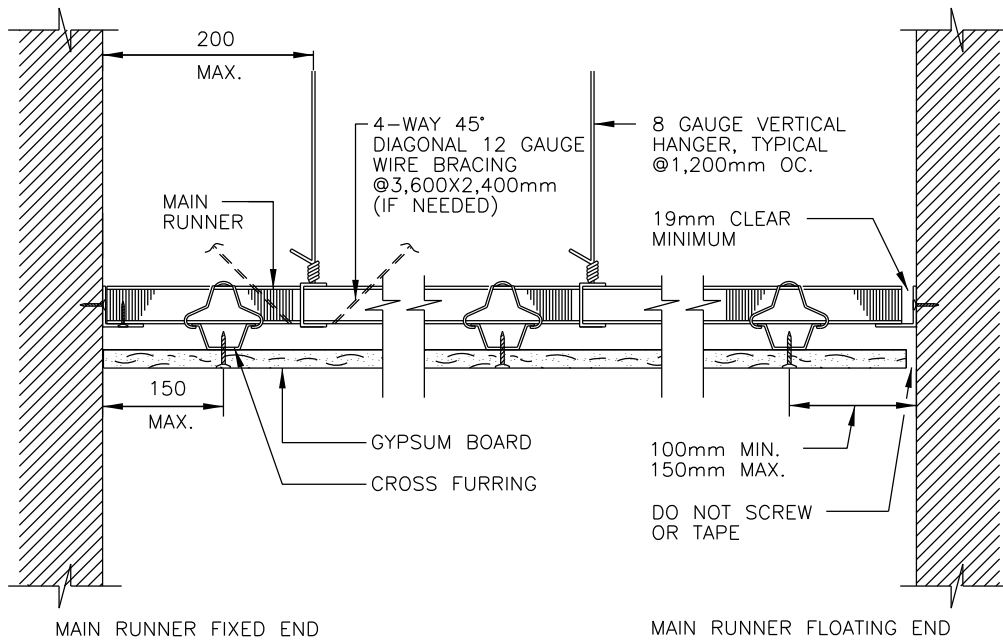
⊗ 4-WAY DIAGONAL 12 GAUGE
WIRE BRACING @3,600X2,400mm WITH
COMPRESSION STRUT

NOTES:

1. THESE SPECIAL SEISMIC DETAILING MAY BE REQUIRED FOR SUSPENDED HEAVY CEILINGS SUCH AS PLASTER, WOOD OR METAL PANEL, OR FOR GYPSUM BOARD CEILINGS AT MULTIPLE LEVELS.
2. SEISMIC DETAILS IS NOT REQUIRED FOR SUSPENDED CEILINGS LESS THAN OR EQUAL TO 135M THAT ARE SURROUNDED BY WALLS OR SOFFITS THAT ARE Laterally BRACED TO THE STRUCTURE.
3. SEISMIC DETAILS IS NOT REQUIRED FOR SUSPENDED CEILINGS CONSTRUCTED OF SCREW-OR NAIL-ATTACHED GYPSUM BOARD ON ONE LEVEL THAT ARE SURROUNDED BY AND CONNECTED TO WALLS OR SOFFITS THAT ARE Laterally BRACED TO THE STRUCTURE ABOVE.
4. CEILING BRACING ASSEMBLIES AT A SPACING OF NOT MORE THAN 3,600mm IN EACH DIRECTION ARE ACCEPTABLE PER EACH CODE REQUIREMENTS.
5. CHECK APPLICABLE SEISMIC DESIGN REQUIREMENTS AND EXEMPTION BEFORE APPLYING SEISMIC DETAILING HEREIN.

SUSPENDED HEAVY CEILING PLAN
NOT TO SCALE

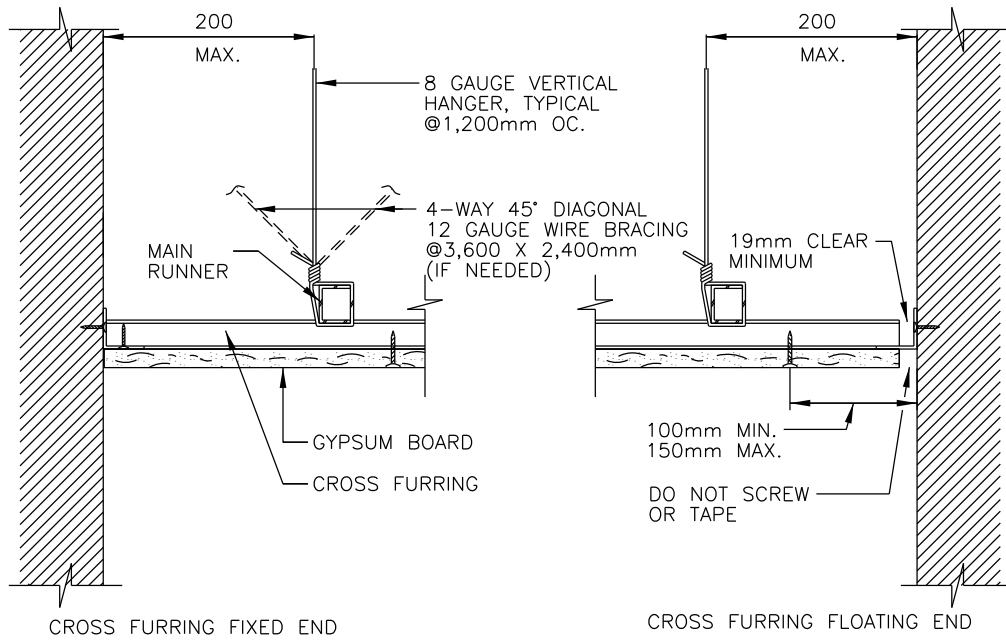
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	SUSPENDED HEAVY CEILING PLAN	092900	A - 1203



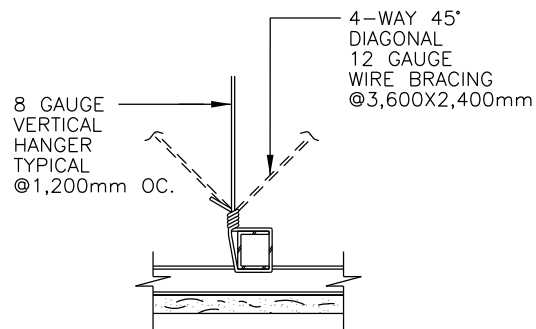
A — A — A MAIN RUNNER AT PERIMETER

SUSPENDED HEAVY CEILING
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	SUSPENDED HEAVY CEILING A-A SECTION	092900	A - 1204



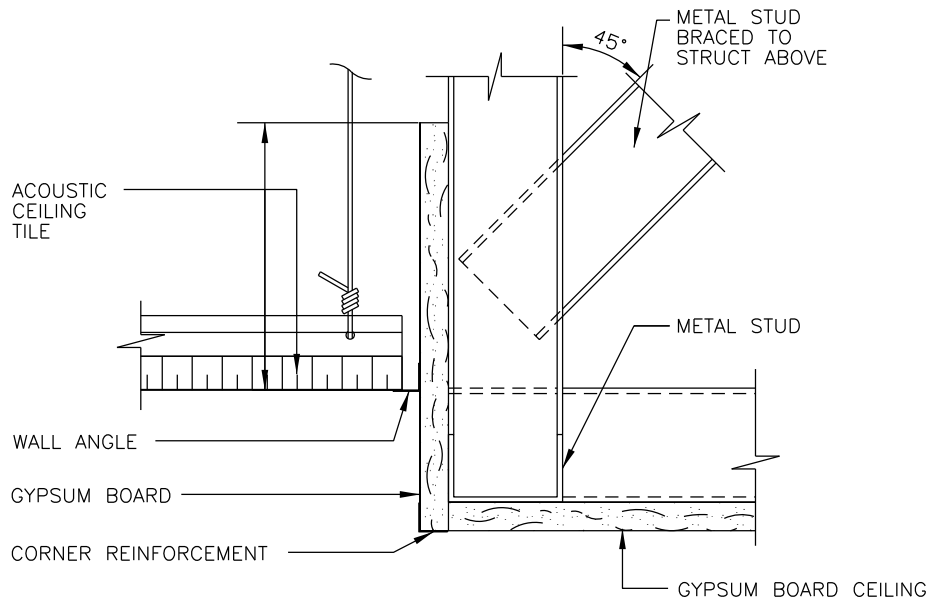
B B-B CROSS FURRING AT PERIMETER



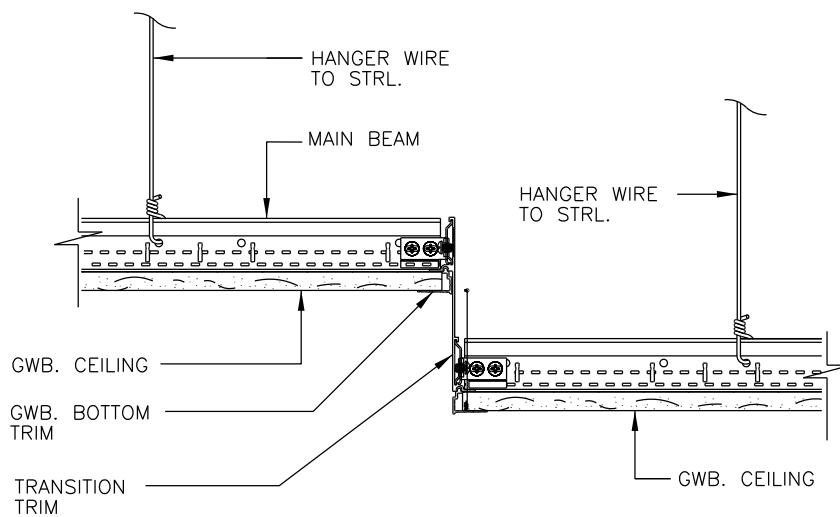
C C-C BRACE ASSEMBLY

SUSPENDED HEAVY CEILING
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	SUSPENDED HEAVY CEILING B-B & C-C SECTION	092900	A - 1205



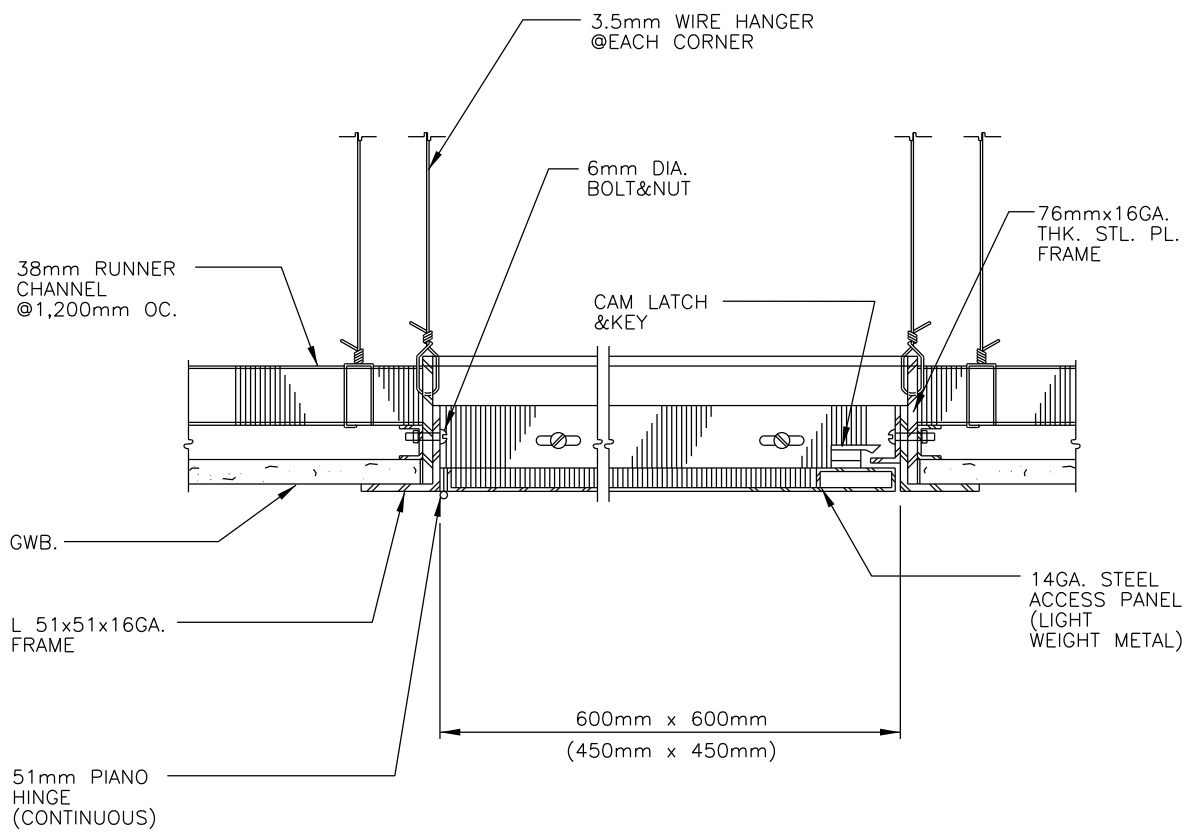
A DROP CEILING DETAIL



B DROP CEILING DETAIL

DROP CEILING DETAIL
NOT TO SCALE

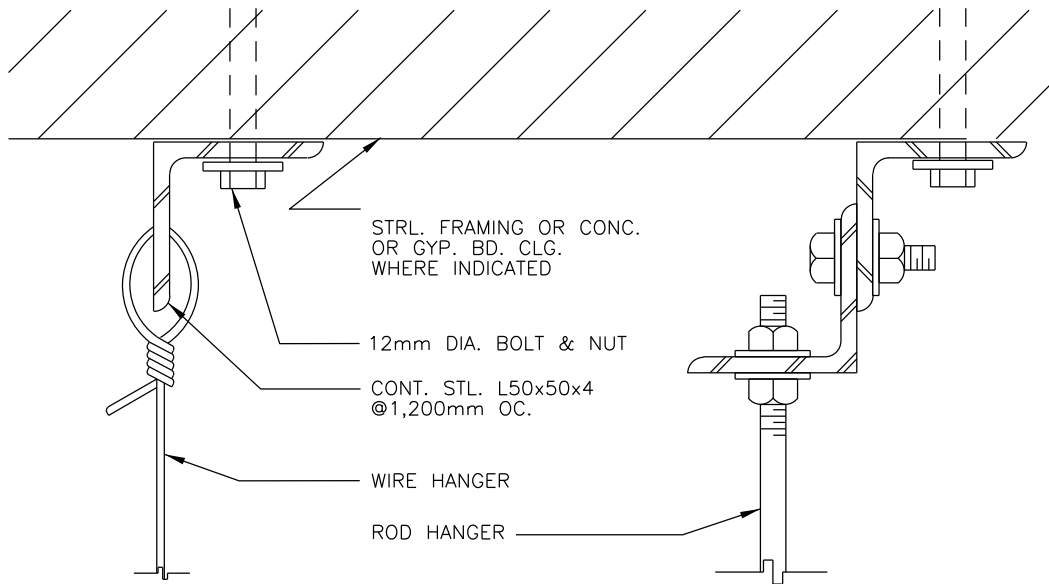
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	DROP CEILING DETAIL	092900	A - 1206



CEILING ACCESS DRTAIL.
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CEILING ACCESS DETAIL	092900	A - 1207

REV DATE: NOV 2015

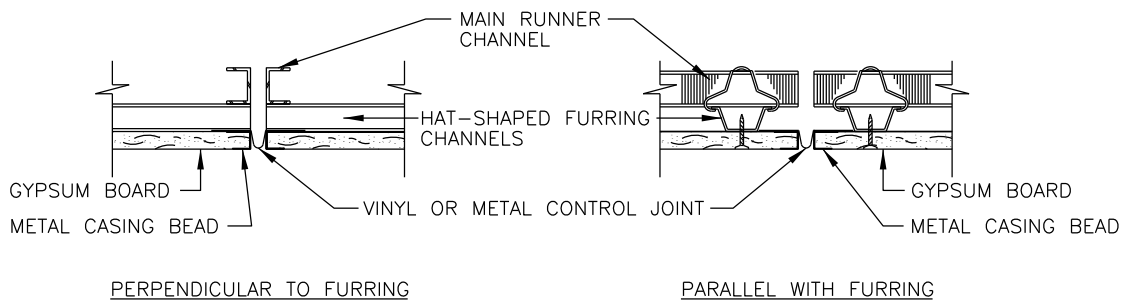


A WIRE HANGER

B ROD HANGER

TYPICAL HANGER DETAIL
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL HANGER DETAIL	092900	A - 1208

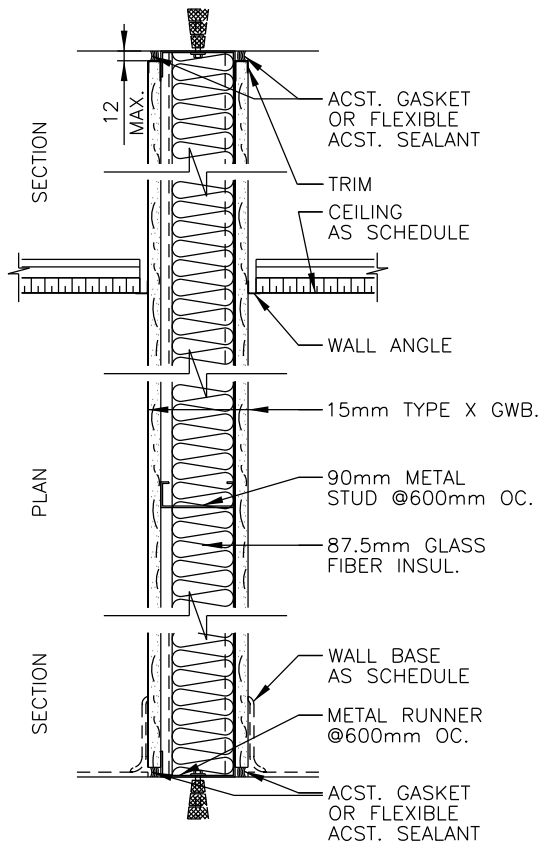


NOTES :

1. A CONTROL JOINT SHALL BE INSTALLED WHERE A PARTITION, WALL, OR CEILING TRAVERSES A CONSTRUCTION JOINT (EXPANSION, SEISMIC, OR BUILDING CONTROL ELEMENT) IN THE BASE BUILDING STRUCTURE.
2. CONTROL JOINTS IN INTERIOR CEILING WITH PERIMETER RELIEF SHALL BE INSTALLED SO THAT LINEAR DIMENSIONS BETWEEN CONTROL JOINTS DO NOT EXCEED 15m AND TOTAL AREA BETWEEN CONTROL JOINTS DOES NOT EXCEED 230m².
3. CONTROL JOINTS IN INTERIOR CEILING WITHOUT PERIMETER RELIEF SHALL BE INSTALLED SO THAT LINEAR DIMENSIONS BETWEEN CONTROL JOINTS DO NOT EXCEED 9m AND TOTAL AREA BETWEEN CONTROL JOINTS DOES NOT EXCEED 84m².
4. A CONTROL JOINT OR INTERMEDIATE BLOCKING SHALL BE INSTALLED WHERE CEILING FRAMING MEMBERS CHANGE DIRECTION.
5. WHERE A CONTROL JOINT OCCURS IN AN ACOUSTICAL OR FIRE RATED SYSTEM, BLOCKING SHALL BE PROVIDED BEHIND THE CONTROL JOINT BY USING A BACKING MATERIAL SUCH AS 15mm, TYPE X GYPSUM BOARD, MINERAL FIBER, OR OTHER TESTED EQUIVALENT.

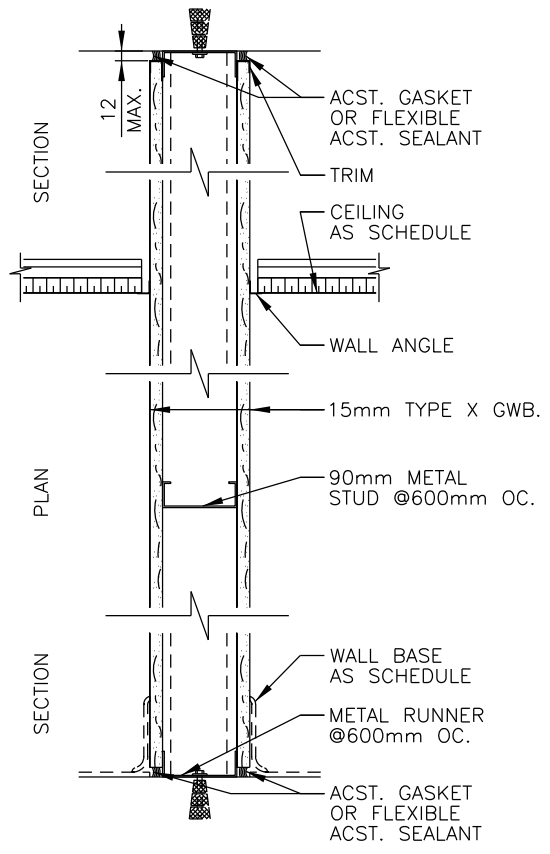
CEILING CONTROL JOINT
 NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CEILING CONTROL JOINT	092900	A - 1209



A 1-HOUR FIRE

GA FILE NO. WP1072
45 to 49 STC.
GENERIC

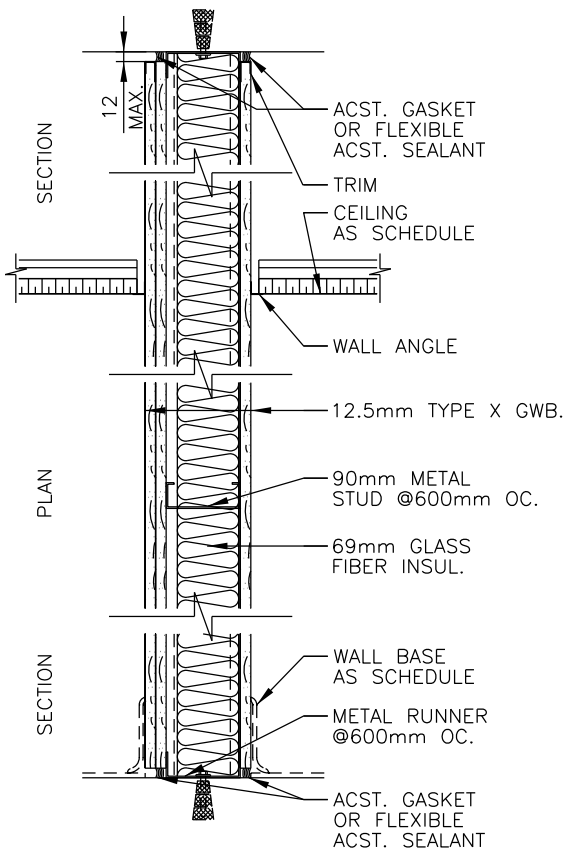


B 1-HOUR FIRE

GA FILE NO. WP1414 OR UL U419
(35 to 39 STC., FROM GA FILE NO. WP1350)
PROPRIETARY

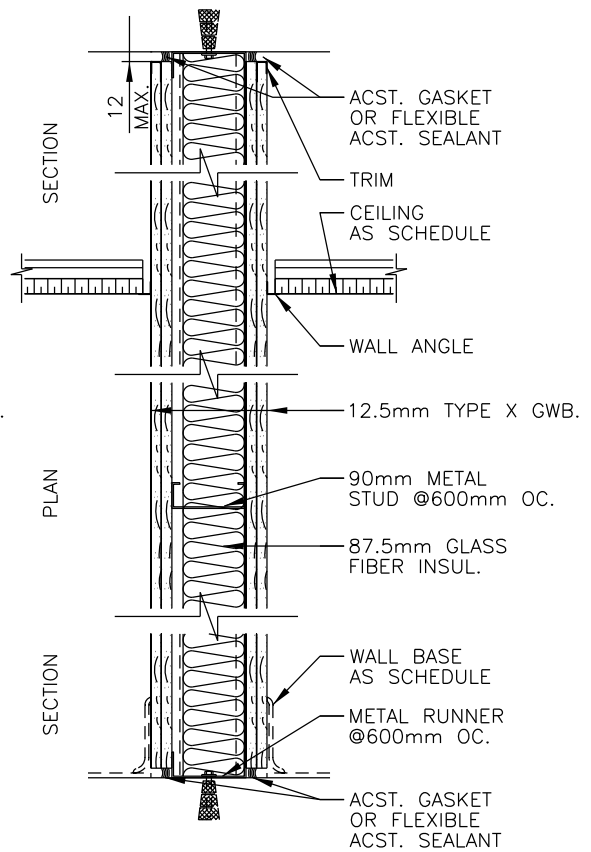
GYPSUM DRYWALL (ONE LAYER)
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	GYPSUM DRYWALL TYPES ONE LAYER	092900	A - 1210



A 1-HOUR FIRE

GA FILE NO. WP1023
50 to 54 STC
PROPRIETARY



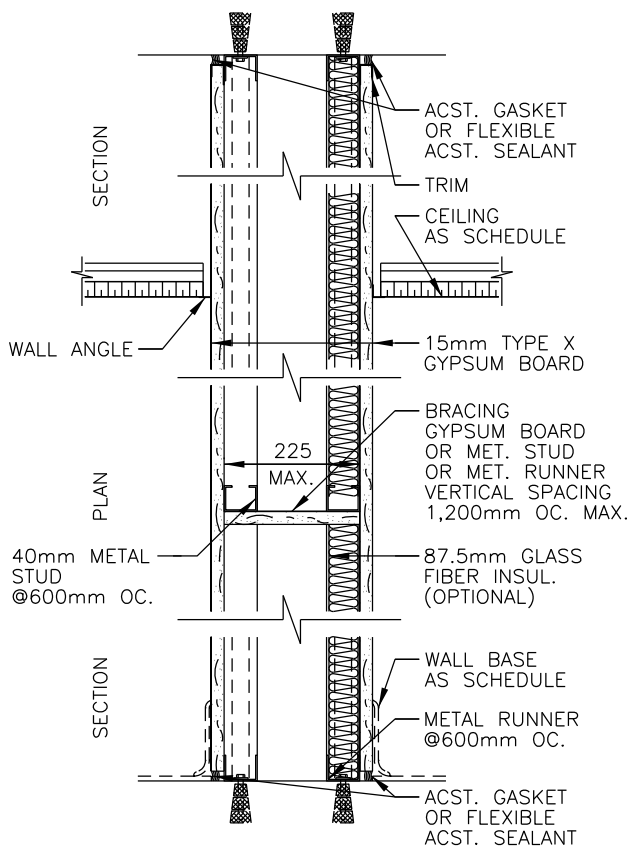
B 2-HOUR FIRE

GA FILE NO. WP1521
55 to 59 STC
GENERIC

GYPSUM DRYWALL(TWO LAYERS)

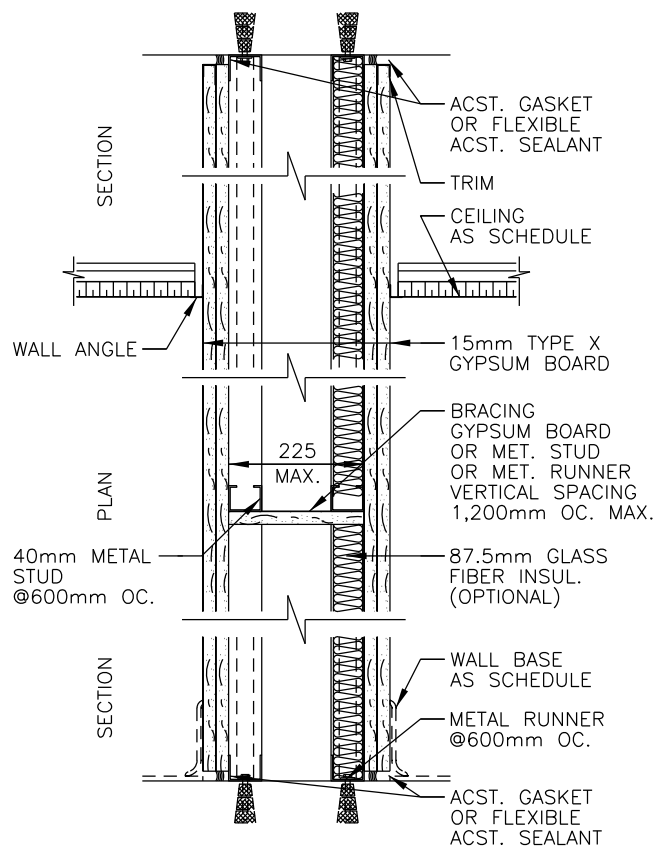
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	GYPSUM DRYWALL TYPES TWO LAYERS	092900	A - 1211



A 1-HOUR FIRE

GA FILE NO. WP5015 OR UL U420
50 to 54 STC
GENERIC



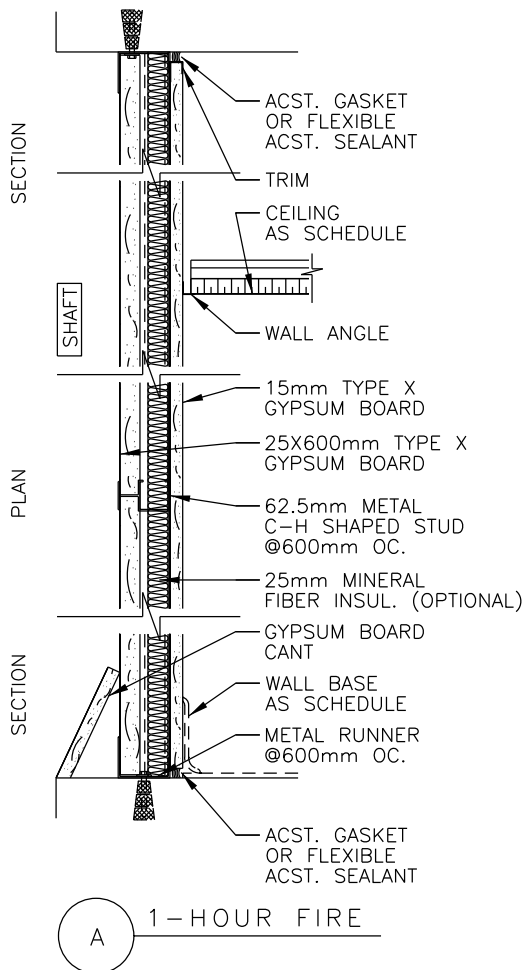
B 2-HOUR FIRE

GA FILE NO. WP5105 OR UL U420
55 to 59 STC
GENERIC

GYPSUM DRYWALL (CHASE WALLS)

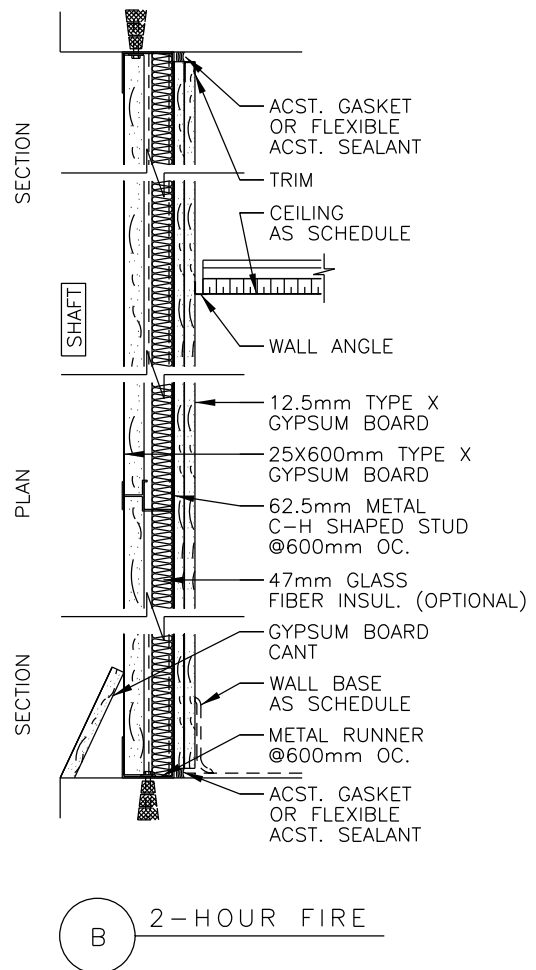
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	GYPSUM DRYWALL TYPES CHASE WALLS	092900	A - 1212



A 1-HOUR FIRE

GA FILE NO. WP7008 OR UL U469
35 to 39 STC
PROPRIETARY



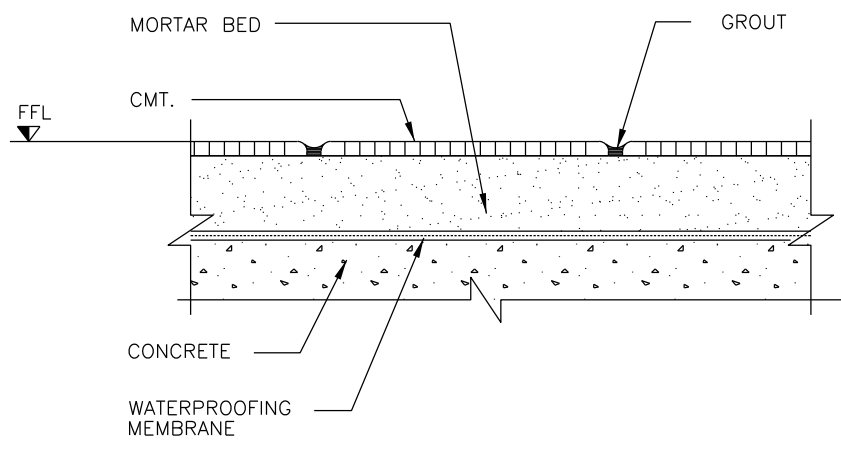
B 2-HOUR FIRE

GA FILE NO. WP7051 OR UL U428
50 to 54 STC
PROPRIETARY

GYPSUM DRYWALL(SHAFT WALLS)

NOT TO SCALE

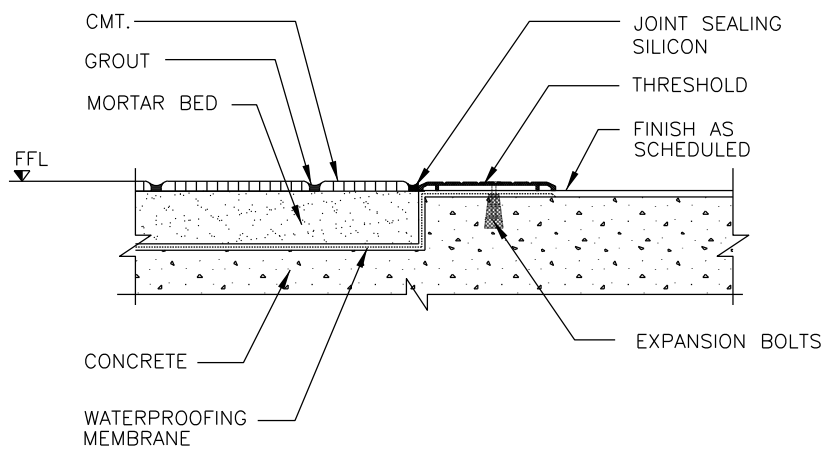
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	GYPSUM DRYWALL TYPES SHAFT WALLS	092900	A - 1213



FLOOR TILE DETAIL
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CERAMIC TILE(FLOOR)	093000	A - 1301

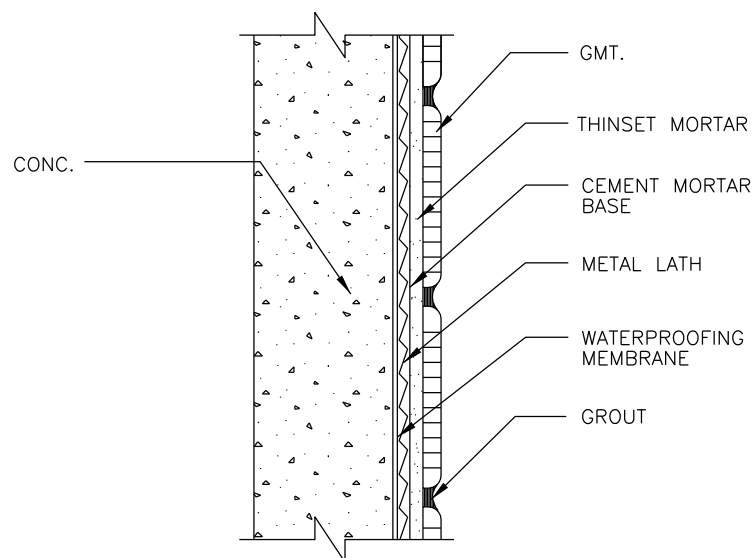
REV DATE: NOV 2015



FLOOR TILE TO THRESHOLD DETAIL
 NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CERAMIC TILE(FLOOR TO THRESHOLD)	093000	A - 1302

REV DATE: NOV 2015

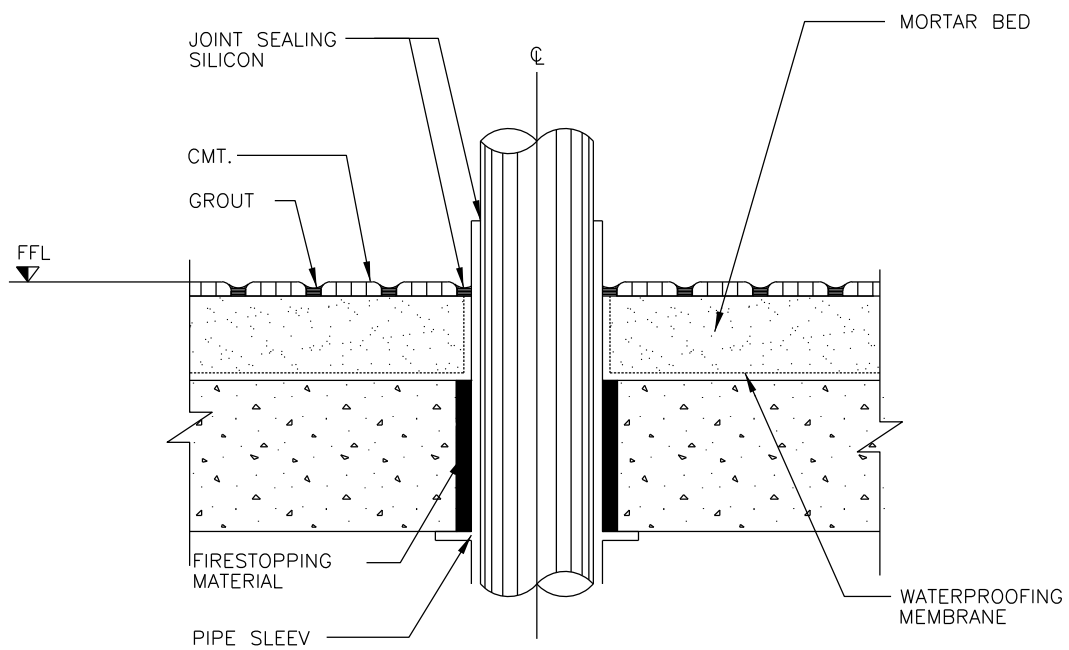


WALL TILE DETAIL

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CERAMIC TILE(WALL)	093000	A - 1303

REV DATE: NOV 2015

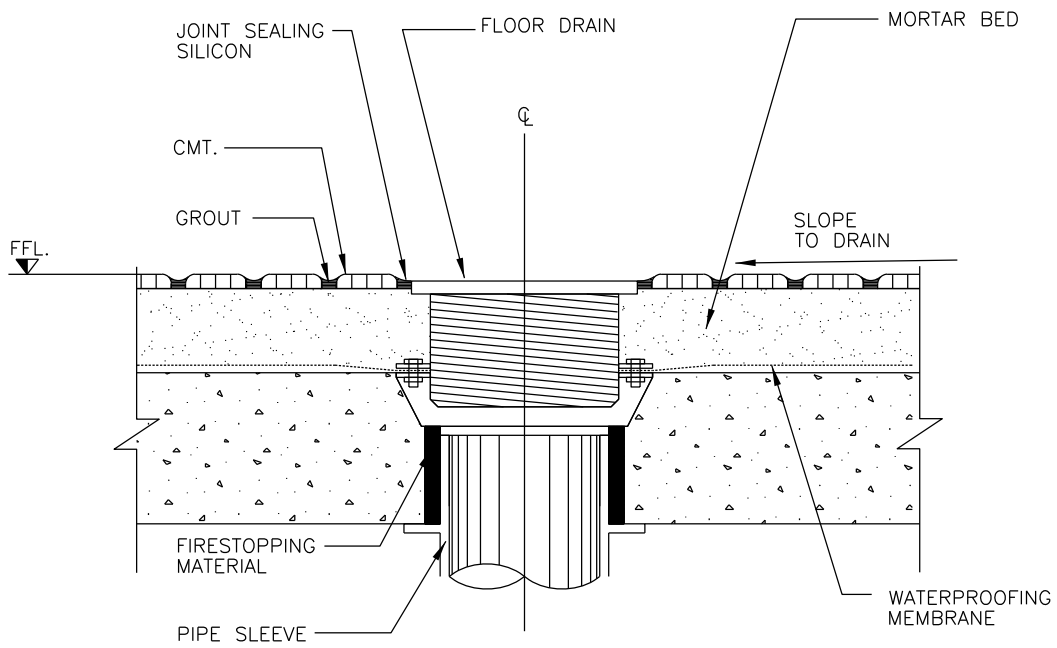


NOTES:

ALL VERTICAL OPENING THOUGH FLOOR SHALL BE PROTECTED IN ACCORDANCE WITH NFPA 101.6.3(4)

FLOOR PENETRATION DETAIL
NOT TO SCALE

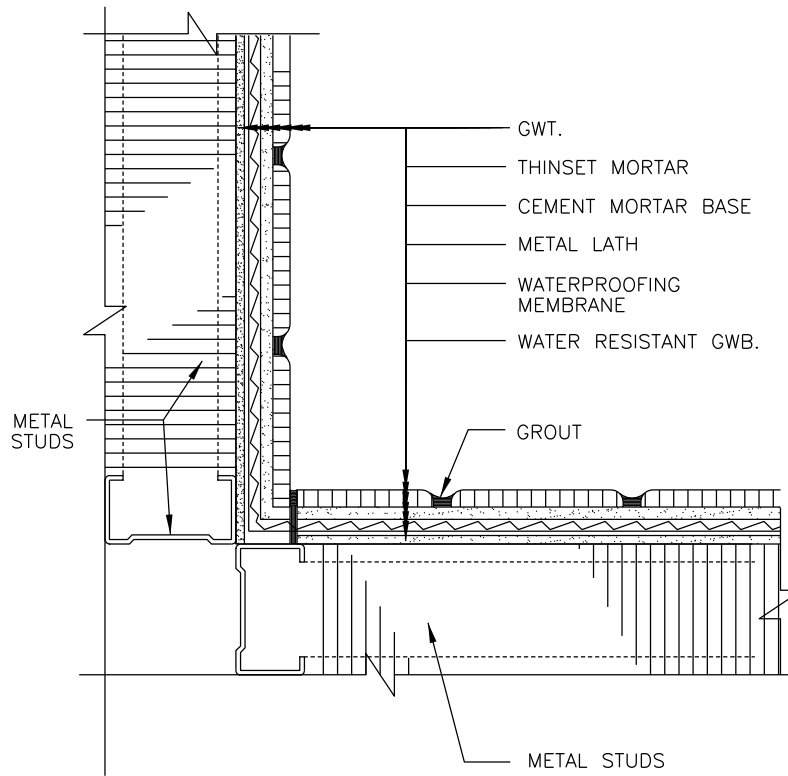
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	FLOOR PENETRATION DETAIL	093000	A - 1304



FLOOR DRAIN DETAIL
 NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	FLOOR DRAIN DETAIL	093000	A - 1305

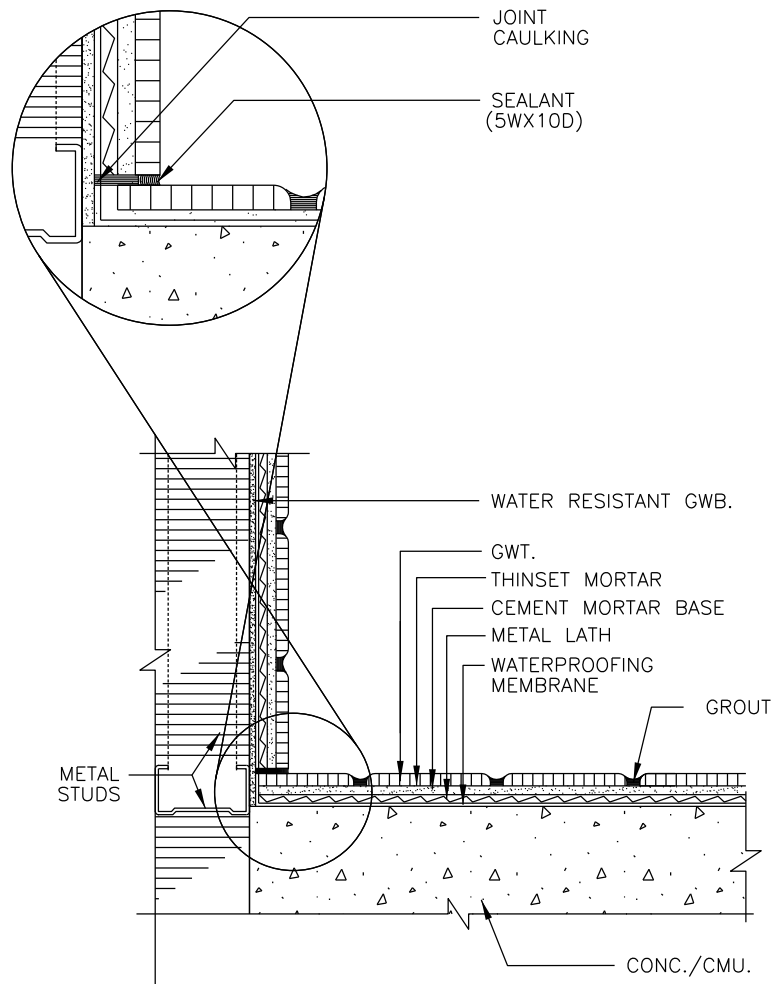
REV DATE: NOV 2015



NOTE:
 WATERPROOFING ONLY FOR TOILET,
 JANITORS CLOSET, SHOWER,
 FOOD SERVICE & DISHWARE WASHING

WALL CORNER(DRY WALL)
 NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	WALL CORNER DETAIL(DRY WALL)	093000	A - 1306



NOTE:

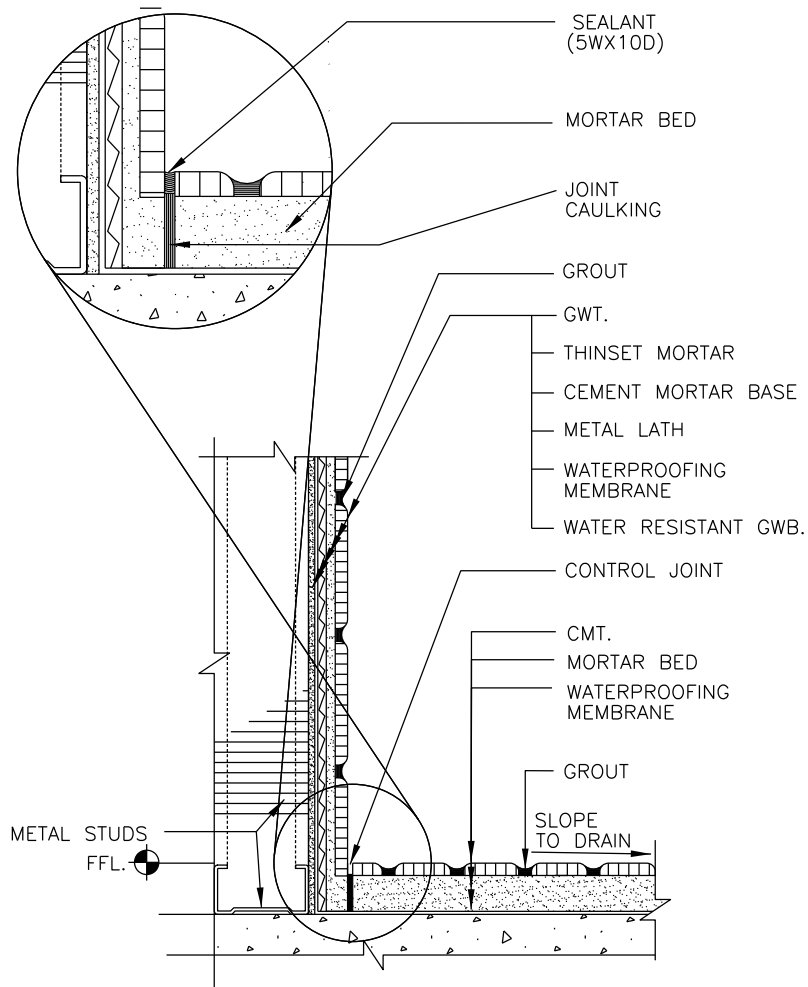
WATERPROOFING ONLY FOR TOILET,
 JANITORS CLOSET, SHOWER,
 FOOD SERVICE & DISHWARE WASHING

WALL CORNER(CONC./CMU)

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	WALL CORNER DETAIL(CONC./CMU.)	093000	A - 1307

REV DATE: NOV 2015



NOTE:

WATERPROOFING ONLY FOR TOILET,
 JANITORS CLOSET, SHOWER,
 FOOD SERVICE & DISHWARE WASHING

FLOOR/WALL

NOT TO SCALE



IMCOM

O&MA STANDARD DETAILS, KOREA

TITLE

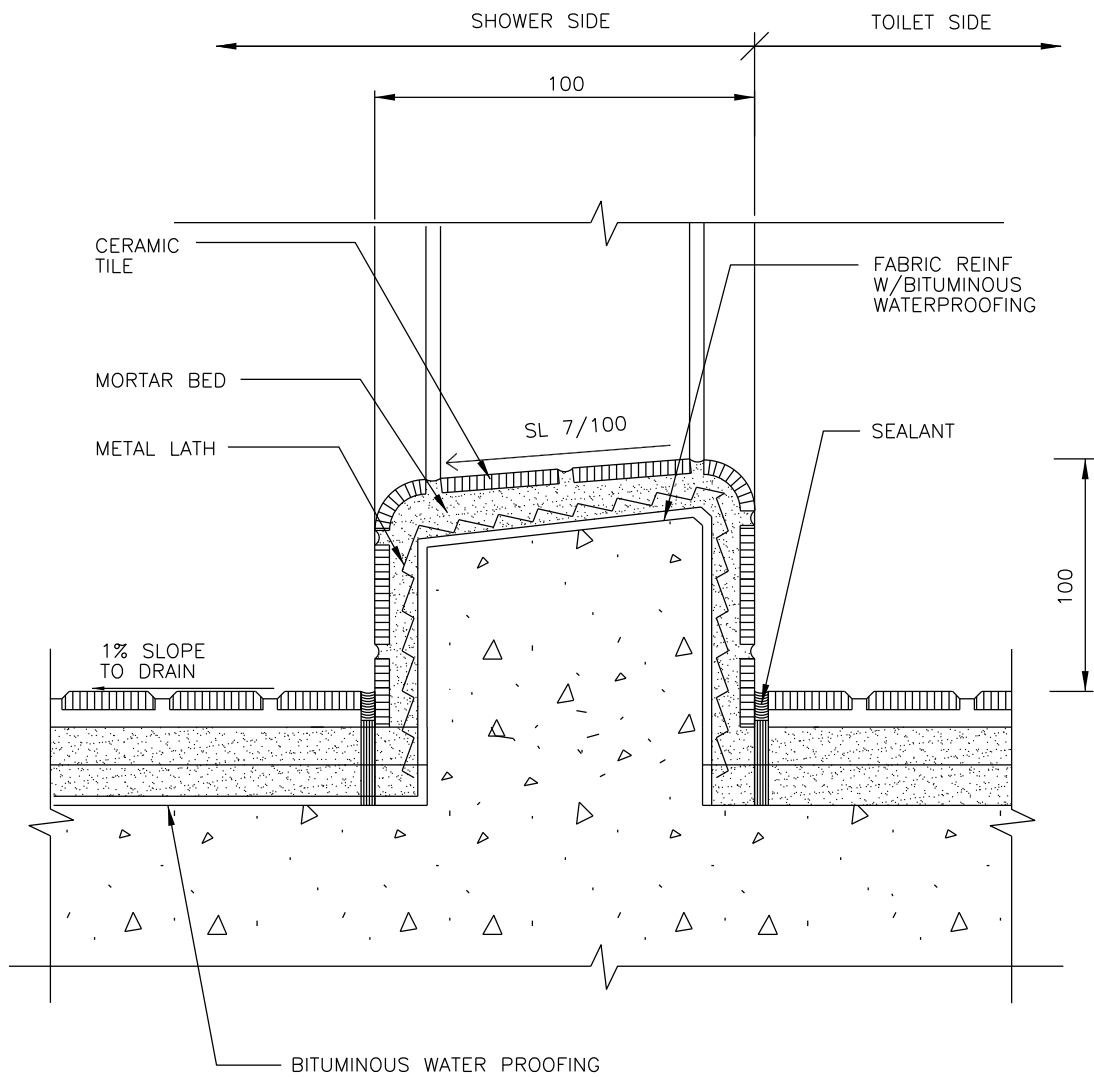
FLOOR TO WALL

OMA SPEC

093000

DWG NO.

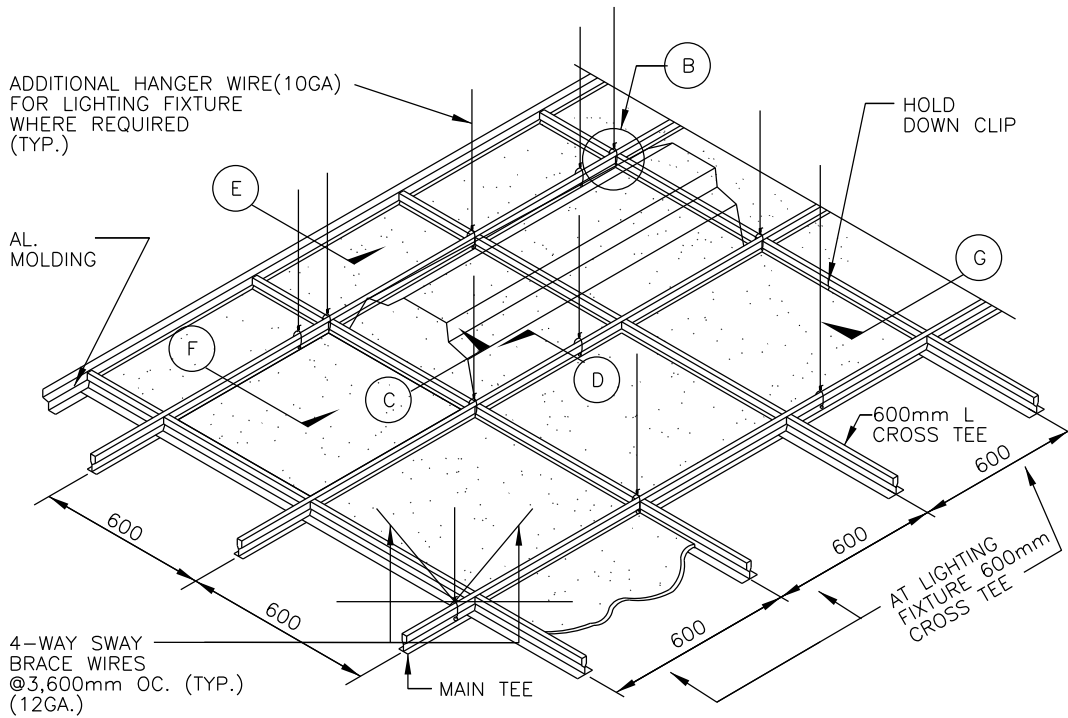
A - 1308



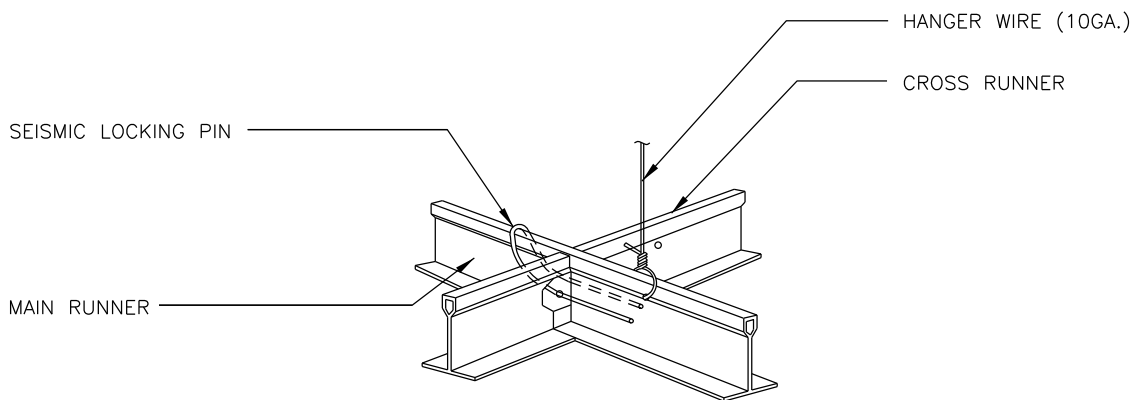
SHOWER CURB DETAIL
 NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	SHOWER CURB DETAIL	093000	A - 1309

REV DATE: NOV 2015



(A) ISOMETRIC



(B) MAIN TEE & CROSS TEE ISOMETRIC

EXPOSED GRID ACOUSTICAL CEILING DETAILS
 NOT TO SCALE

	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	EXPOSED GRID ACOUSTICAL CEILING DETAILS - 1	095100	A - 1401

31x600mm L CROSS TEE
@600mm OC.

38mm MAIN TEE
@600mm OC.

LIGHTING FIXTURE

ACOUSTICAL
TILE CEILING

C AT LIGHTING FIXTURE

38mm MAIN TEE
@600mm OC.

31x600mm L CROSS TEE
@600mm OC.

LIGHTING FIXTURE

ACOUSTICAL
TILE CEILING

D AT LIGHTING FURRING

EXPOSED GRID ACOUSTICAL CEILING DETAILS

NOT TO SCALE



IMCOM

O&MA STANDARD DETAILS, KOREA

TITLE

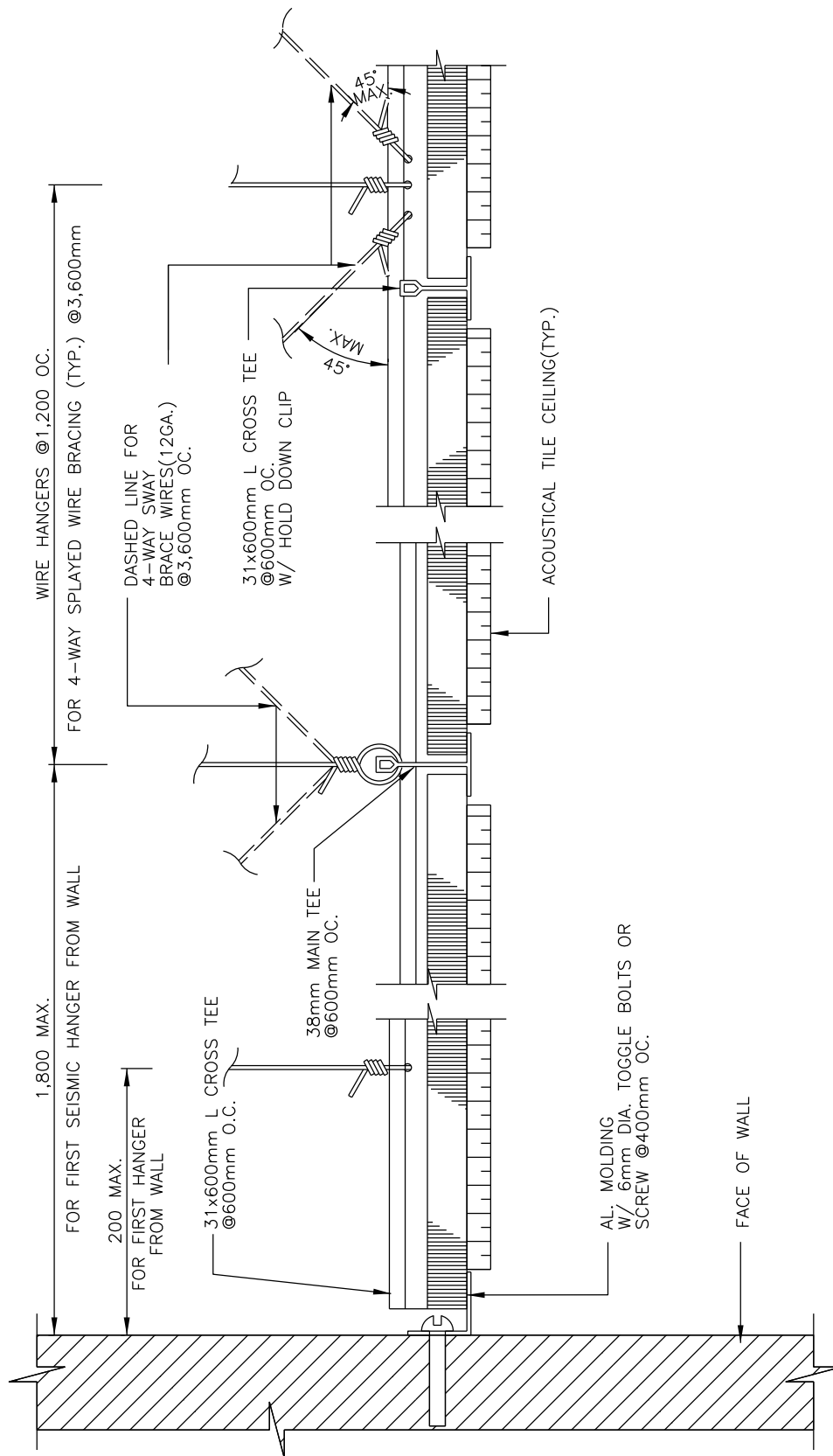
EXPOSED GRID ACOUSTICAL CEILING DETAILS - 2

OMA SPEC

095100

DWG NO.

A - 1402



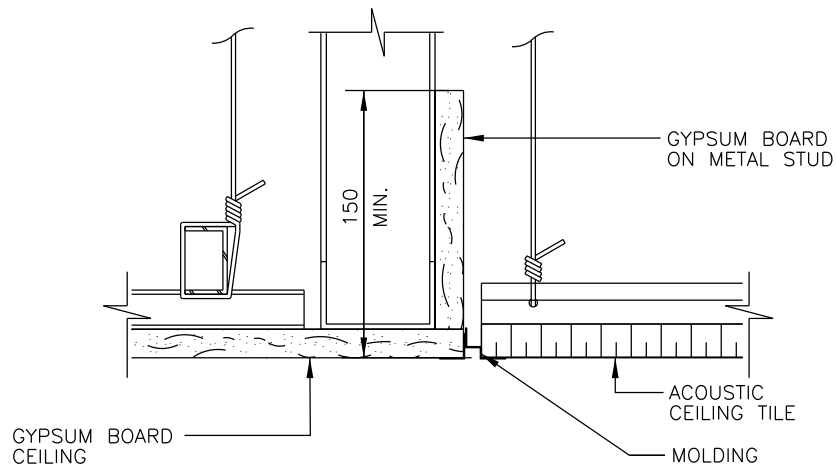
AT CROSS TEE
G

AT MAIN TEE
F

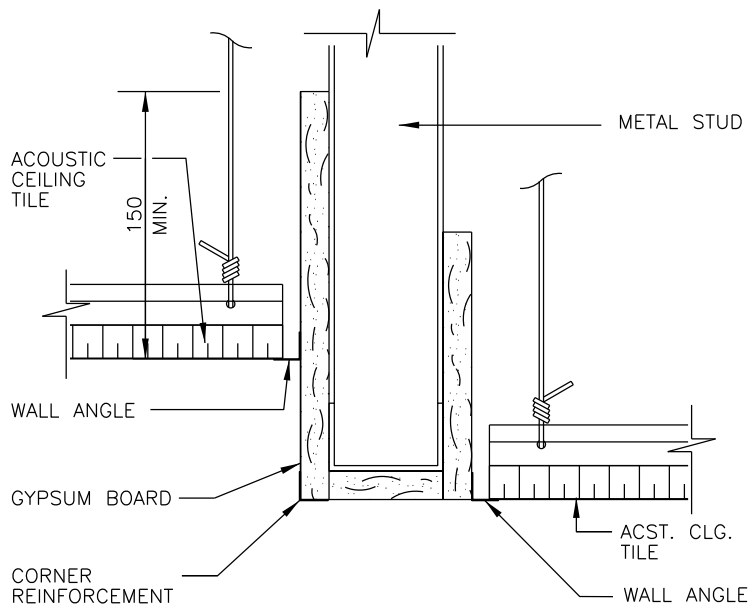
AT WALL
E

EXPOSED GRID ACOUSTICAL CEILING DETAILS
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	EXPOSED GRID ACOUSTICAL CEILING DETAILS - 3	095100	A - 1403



A FLUSH ACST CLG TILE AT GWB CLG



B DROP CEILING DETAIL

DROP CEILING DETAIL
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

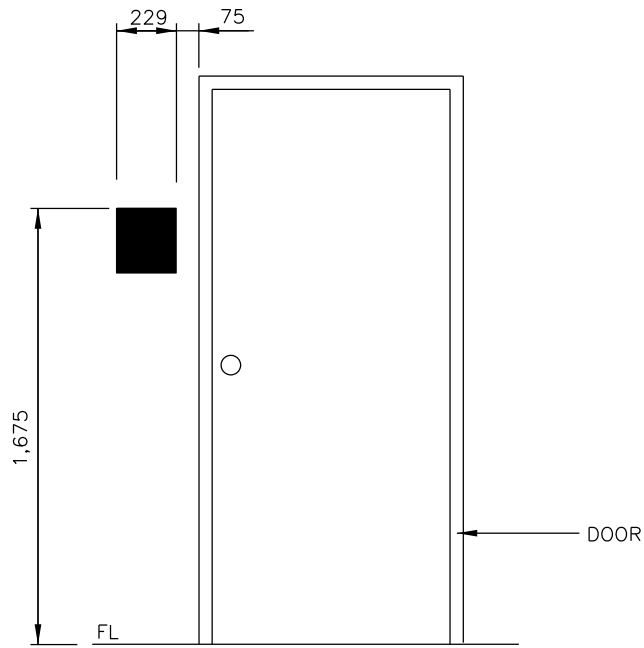
DWG NO.

TITLE

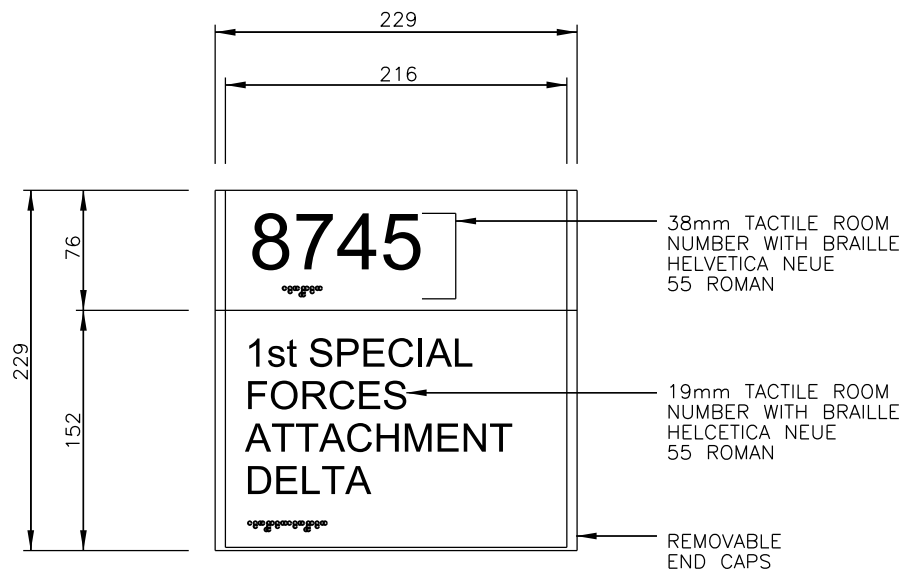
DROP CEILING DETAIL

095100

A - 1404



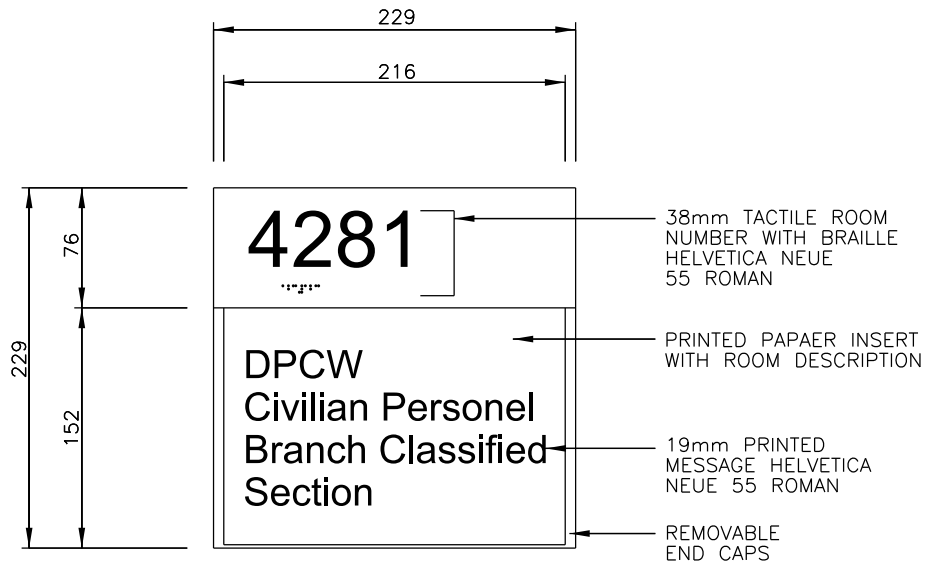
A TYPICAL INTERIOR SIGN INSTALLATIONS



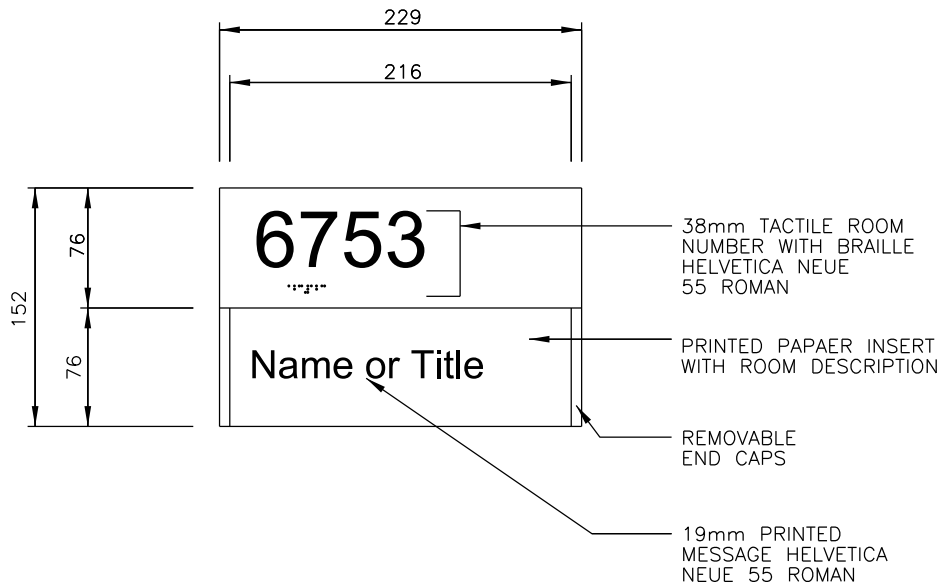
B PERMANENT ROOM IDENTIFICATION SIGN

INTERIOR SIGNAGE (ROOM AND WORKSTATION)
 NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	INTERIOR SIGNAGE(ROOM AND WORKSTATION)	101402	A - 1501



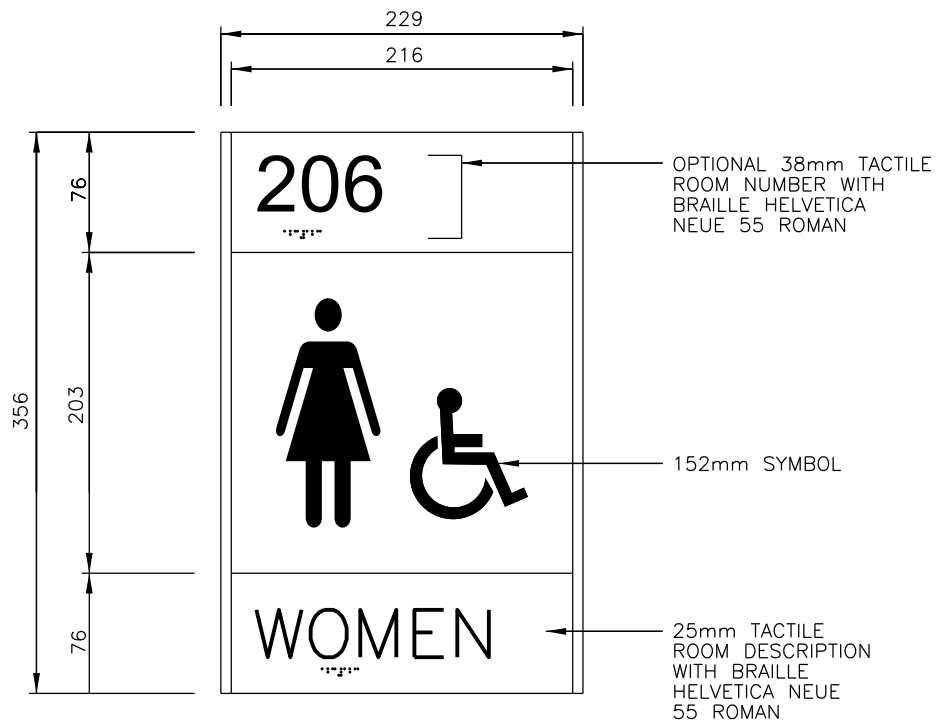
C ROOM IDENTIFICATION SIGN



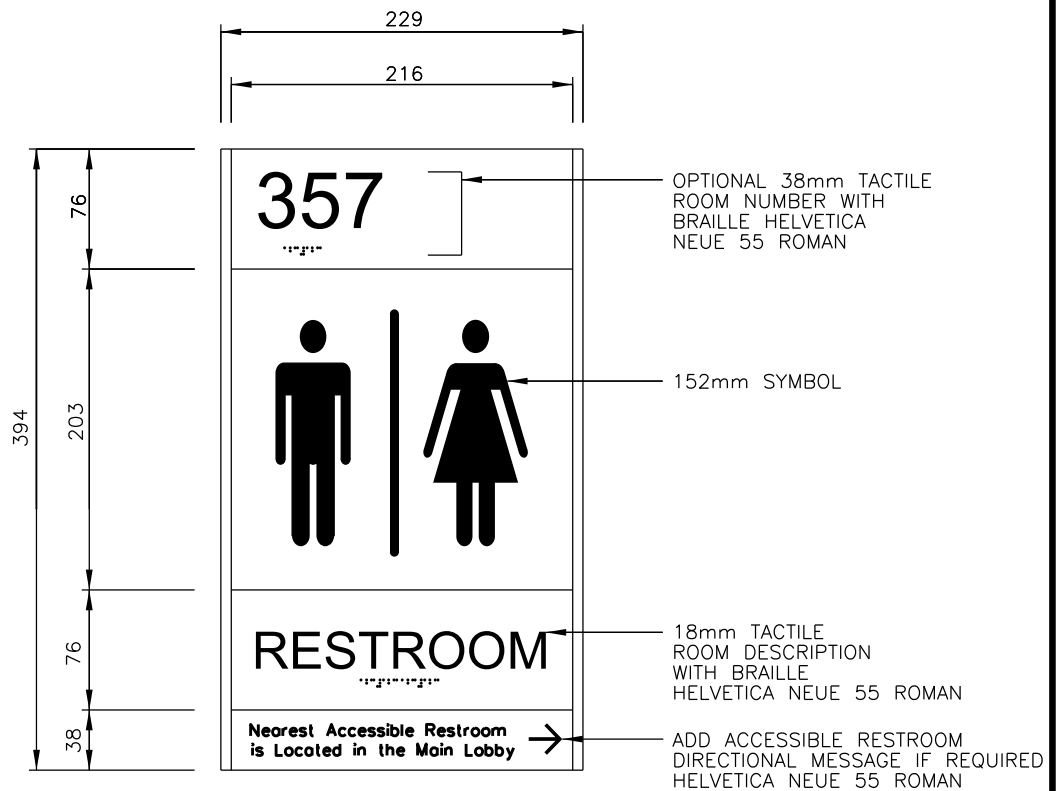
D WORKSTATION SIGN

INTERIOR SIGNAGE (ROOM AND WORKSTATION)
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	INTERIOR SIGNAGE(ROOM AND WORKSTATION)	101402	A - 1502



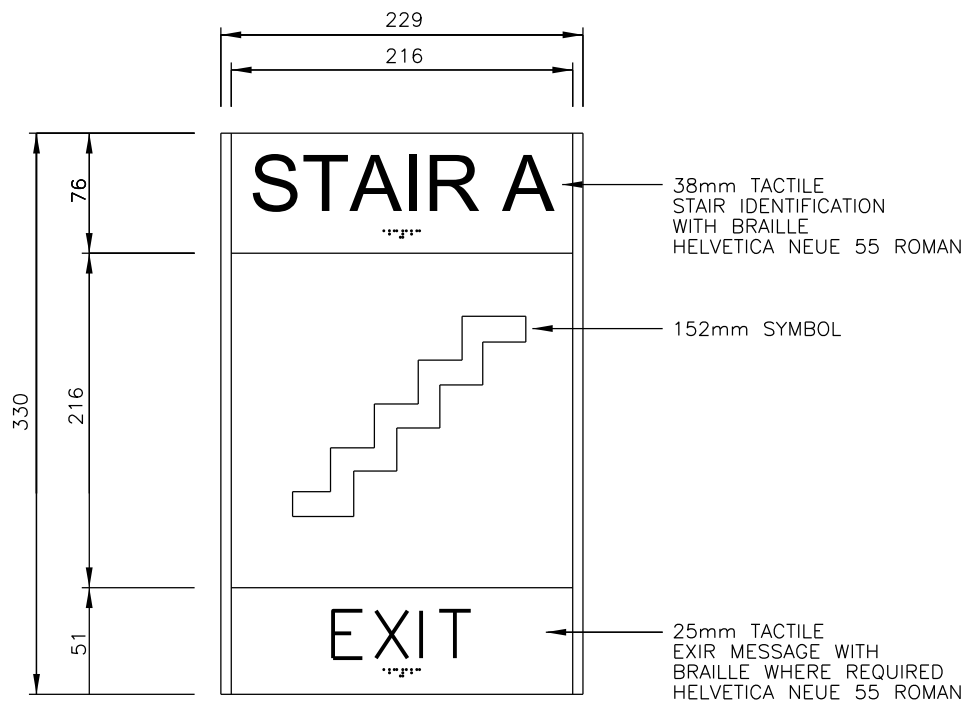
A ACCESSIBLE RESTROOM IDENTIFICATION SIGN



B NON-ACCESSIBLE RESTROOM IDENTIFICATION SIGN

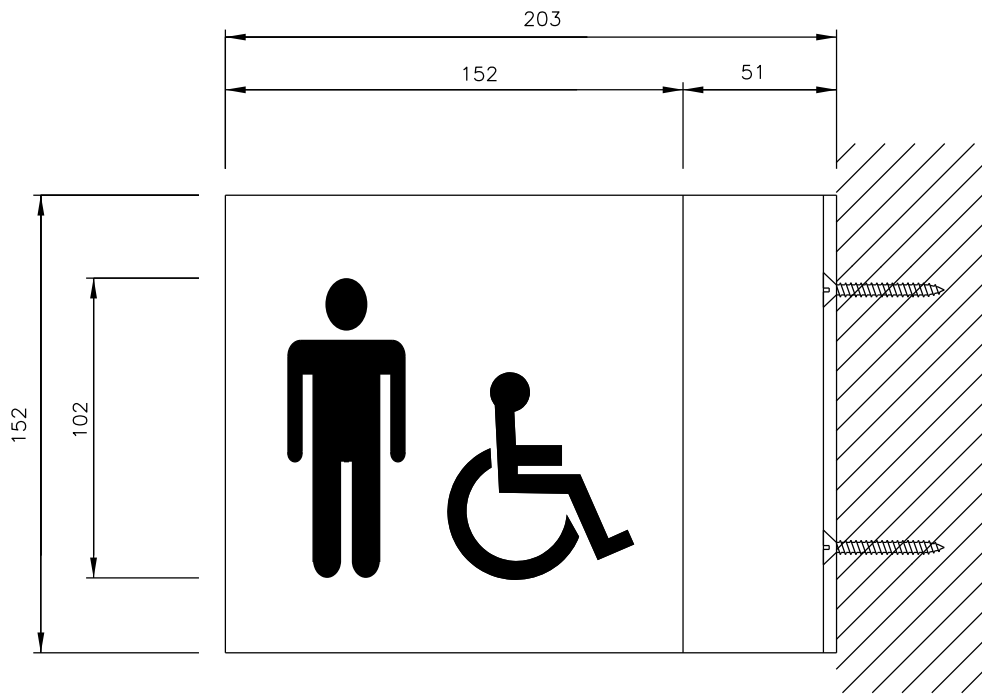
INTERIOR SIGNAGE (RESTROOM)
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	INTERIOR SIGNAGE(RESTROOM)	101402	A - 1503



INTERIOR SIGNAGE (STAIR IDENTIFICATION SIGN)
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	INTERIOR SIGNAGE(STAIR)	101402	A - 1504



A FLAG-MOUNTED SIGNS

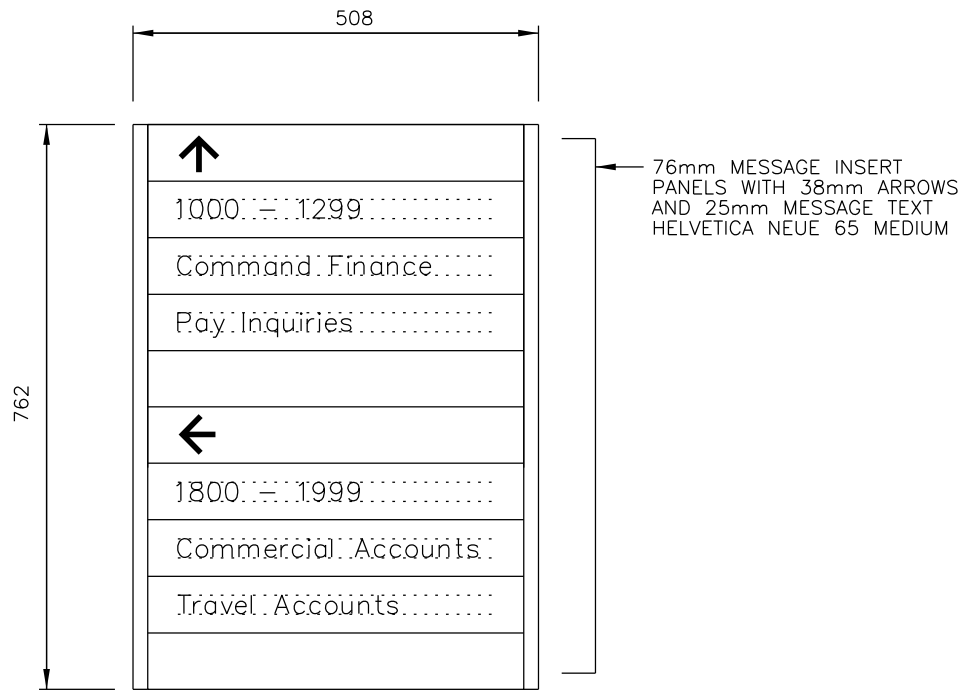


B MANDATORY AND PROHIBITORY SIGNS

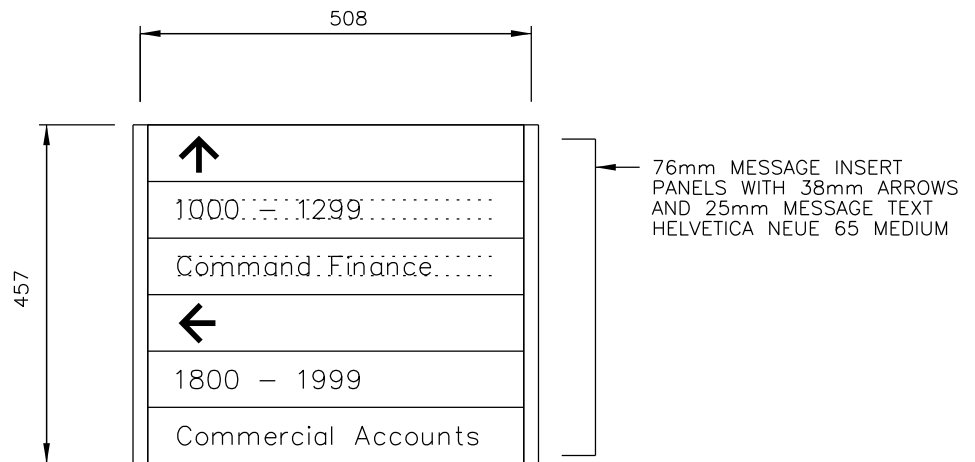
NOTE :
SIGN SIZES SHOULD BE CONSISTENT WITHIN A BUILDING

INTERIOR SIGNAGE (PUBLIC AND MANDATORY)
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	INTERIOR SIGNAGE(PUBLIC AND MANDATORY)	101402	A - 1505



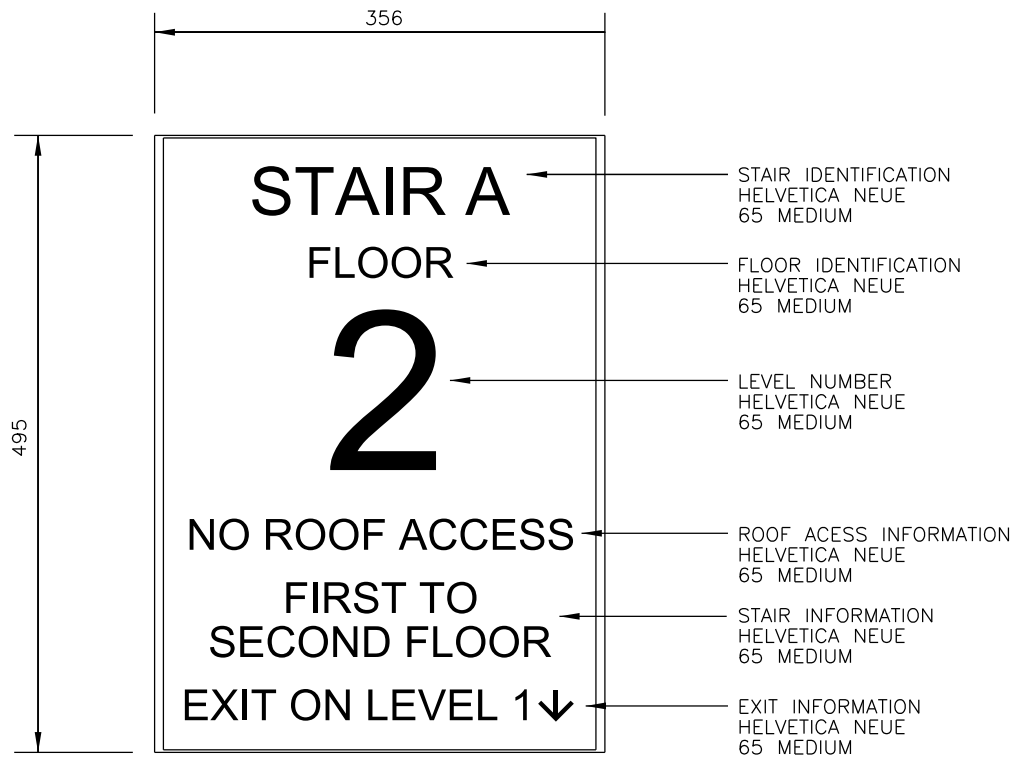
A LARGE DIRECTIONAL



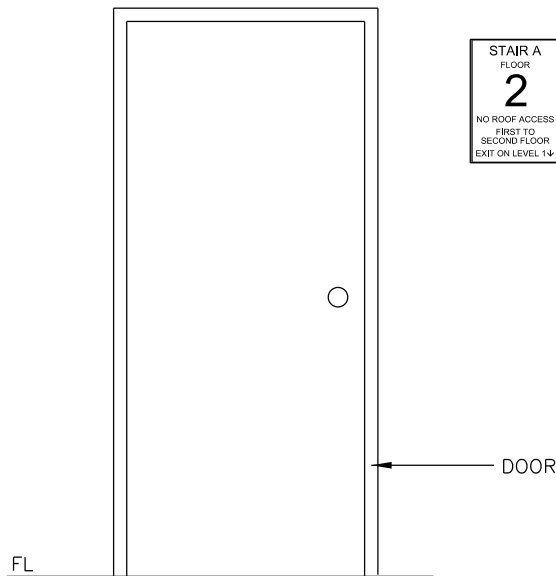
B MEDIUM DIRECTIONAL

INTERIOR WALL-MOUNTED DIRECTIONAL SIGNS
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	INTERIOR WALL-MOUNTED DIRECTIONAL SIGNS	101402	A - 1506



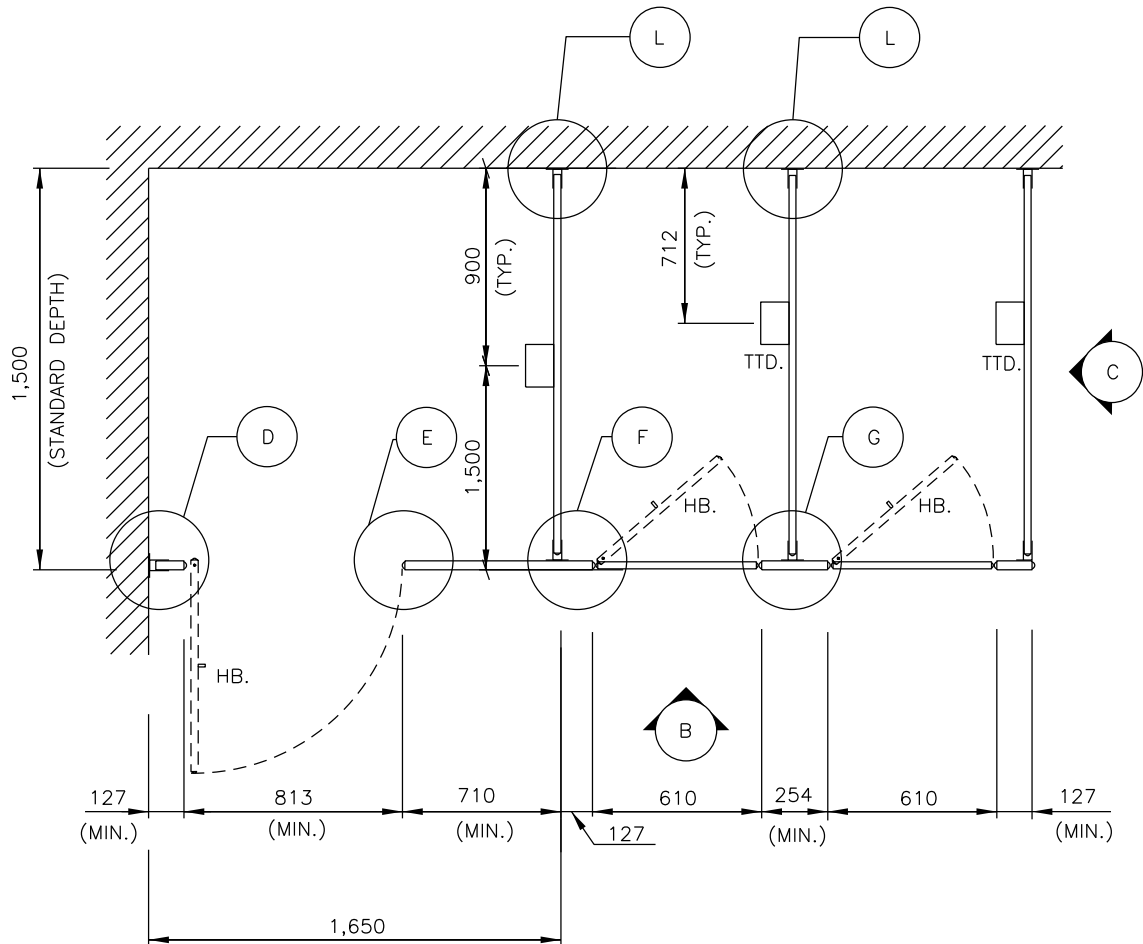
A STAIRWAY LIFE SAFETY INFO.



A STAIRWAY SIGN INSTALLATIONS

INTERIOR SIGNAGE (STAIRWAY LIFE SAFETY INFO.)
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	INTERIOR SIGNAGE (STAIRWAY LIFE SAFETY INFORMATION)	101402	A - 1507

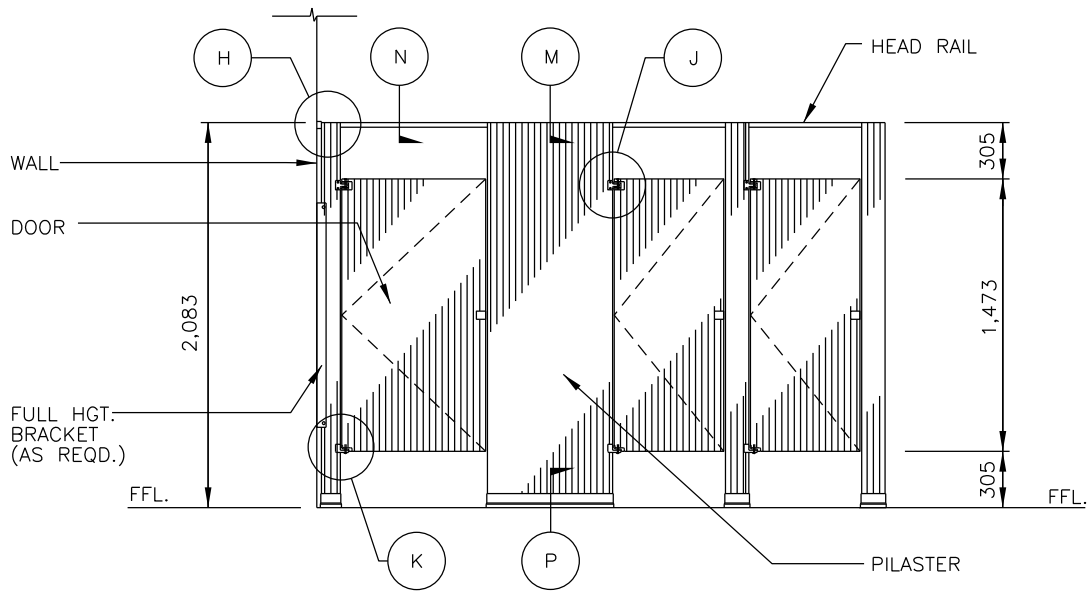


NOTES:

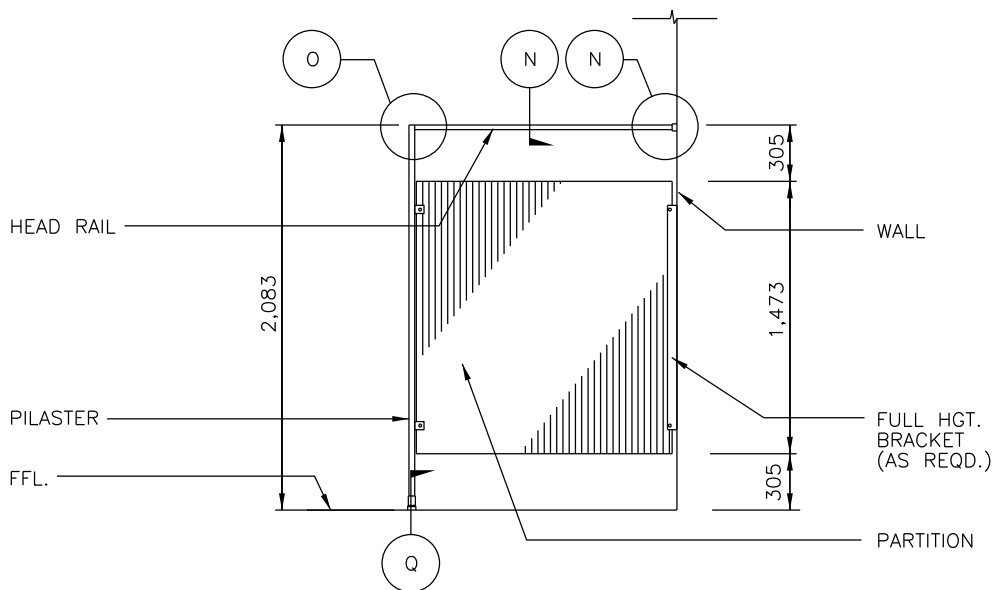
1. REFER TO TOILET FLOOR PLANS FOR EXACT PARTITION CONFIGURATION AND LOCATIONS.
2. TOILET PARTITION SHALL BE CONSTRUCTED IAW TECHNICAL SPECS. ALL SCREWS, NUTS, WASHERS AND FITTINGS SHALL BE OF STAINLESS STEEL UNLESS SPECIFIED OTHERWISE.
3. ALL HARDWARE SHALL COMPLY WITH ADA AND UFAS REQUIREMENTS.

TOILET PARTITION PLAN
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TOILET PARTITIONS - 1	102113	A - 1601



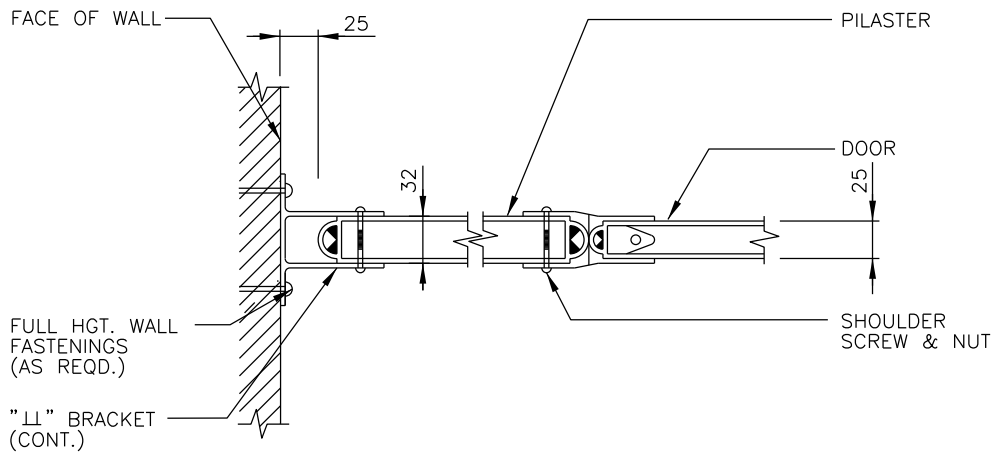
(B) ELEVATION



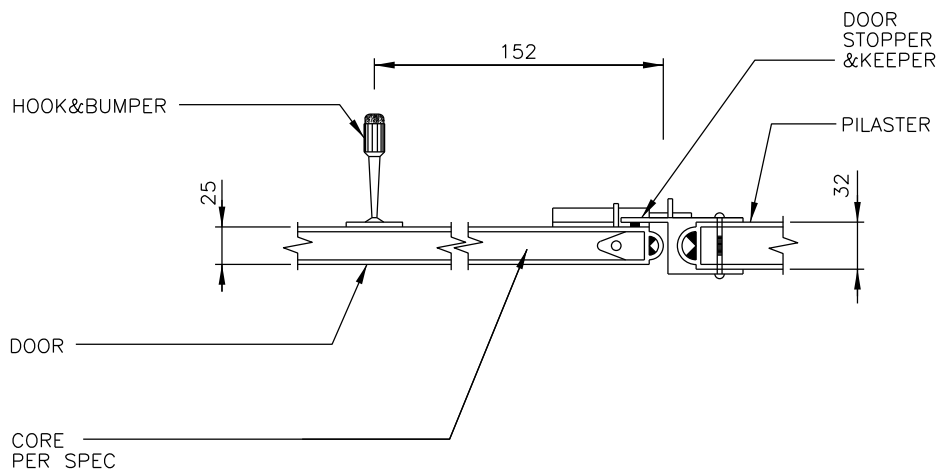
(C) ELEVATION

TOILET PARTITION ELEVATION
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TOILET PARTITIONS - 2	102113	A - 1602



D PILASTER/DOOR DETAIL

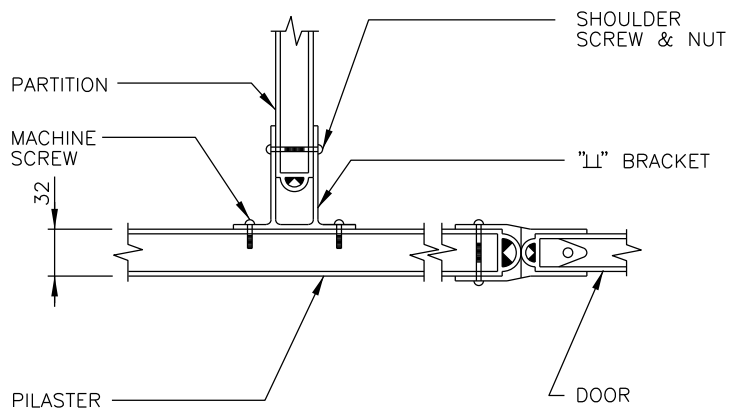


E PILASTER/DOOR DETAIL

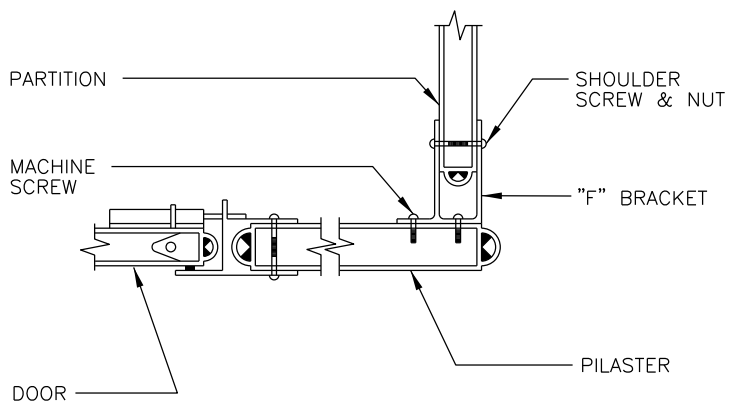
TOILET PARTITION DETAIL
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TOILET PARTITIONS - 3	102113	A - 1603

REV DATE: NOV 2015



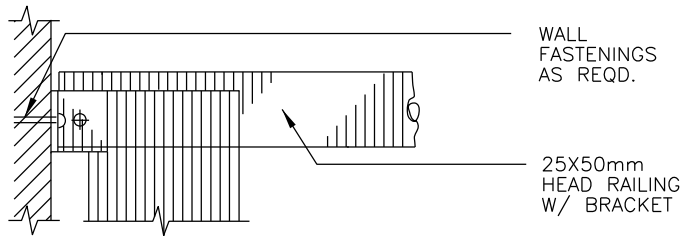
F PTN/PILASTER DETAIL



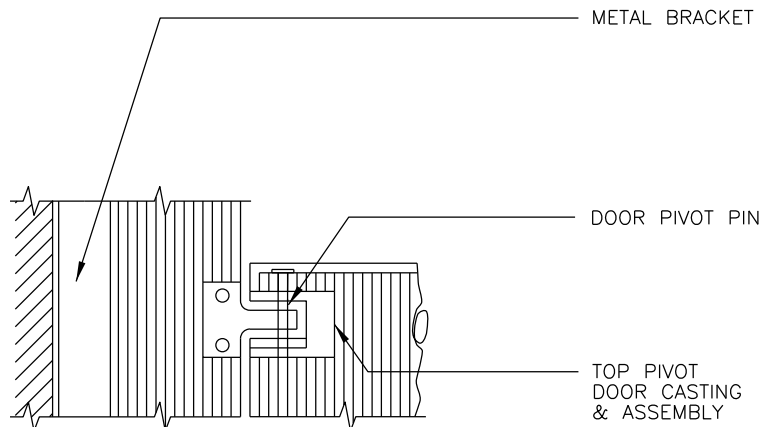
G PTN/PILASTER DETAIL

TOILET PARTITION DETAIL
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TOILET PARTITIONS - 4	102113	A - 1604



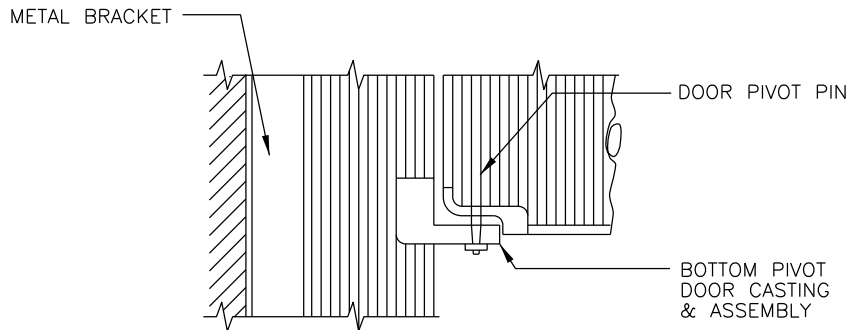
H PILASTER/RAIL DETAIL



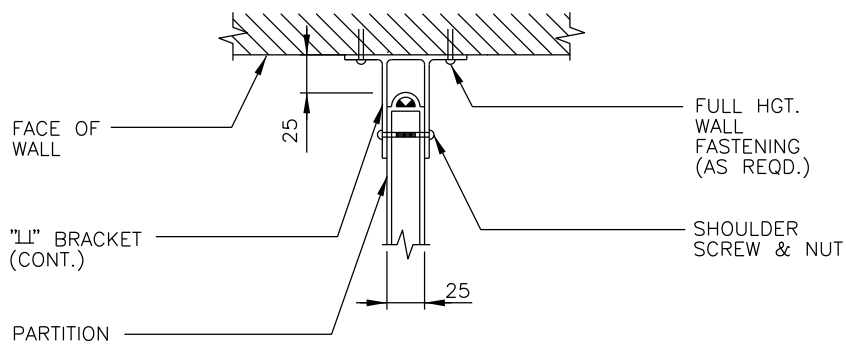
J PILASTER/DOOR DETAIL

TOILET PARTITION DETAIL
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TOILET PARTITIONS - 5	102113	A - 1605



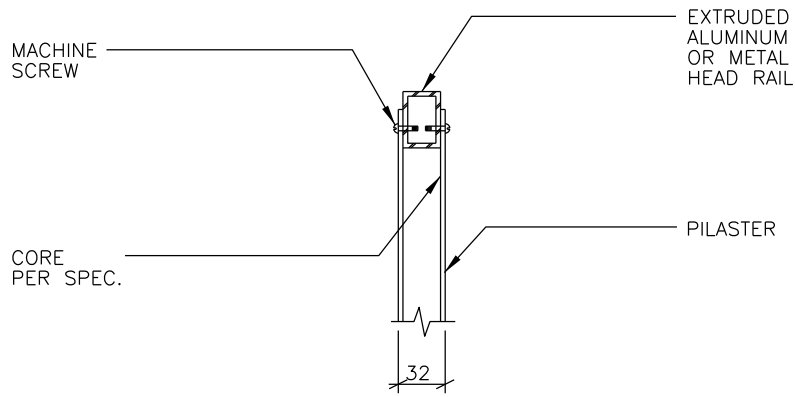
(K) PILASTER/DOOR DETAIL



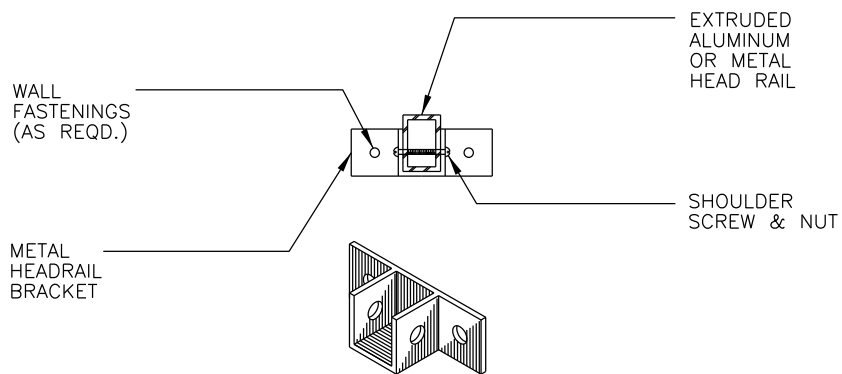
(L) PTN AT WALL DETAIL

TOILET PARTITION DETAIL
NOT TO SCALE

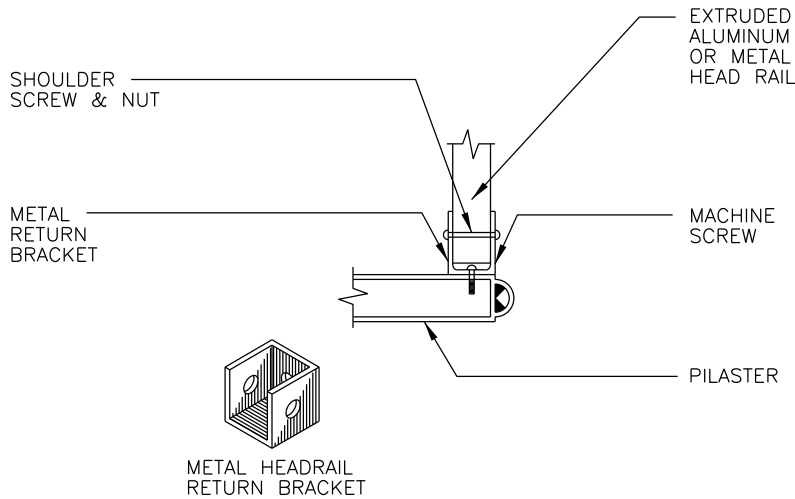
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TOILET PARTITIONS - 6	102113	A - 1606



(M) PILASTER/RAIL DETAIL



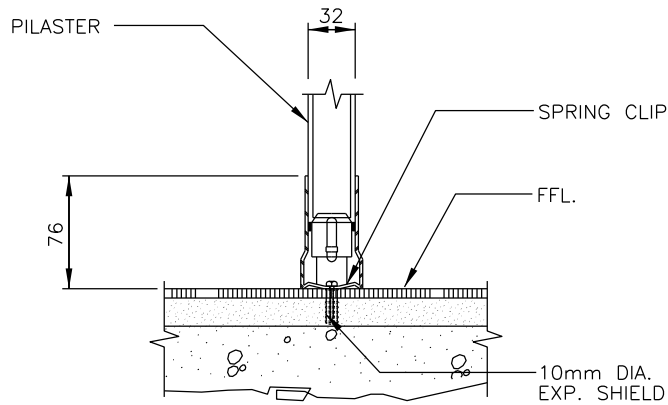
(N) WALL BRACKET DETAIL



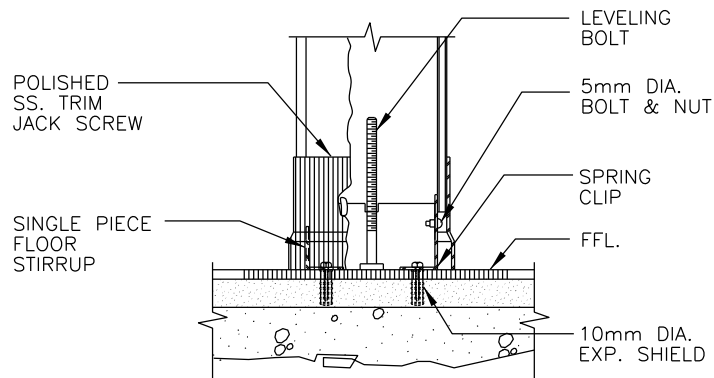
(O) RETURN BRACKET DETAIL

TOILET PARTITION DETAIL
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TOILET PARTITIONS - 7	102113	A - 1607



P PILASTER AT FLOOR



Q PILASTER AT FLOOR

TOILET PARTITION DETAIL
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TOILET PARTITIONS - 8	102113	A - 1608

TOILET FIXTURE & ACCESSORY MOUNTING HEIGHT SCHEDULE

ABB REV.	TOILET ACCESSORY	ACCESSIBLE CHILDREN'S USE (IN mm ABOVE FFL)			STANDARD MTG. HGT. (IN mm ABOVE FFL)	ACCESSIBLE MTG. HGT. (IN mm ABOVE FFL)	REMARKS
		CHILDREN AGES 3 & 4	AGES 5 THRU 8	AGES 8 THRU 12			
CH	COAT HOOK	REACH RANGE 510~915	455~1,015	405~1,120	1,730	1,015~1,220	
DF	DRINKING FOUNTAIN (TO SPOUT OUTLET)	760 MAX			876	915 MAX	
DF	DRINKING FOUNTAIN FOR STANDING PERSON (TO SPOUT OUTLET)	-	-	-	1,029	965~1,090	
GB	GRAB BARS FOR WATER CLOSETS	-	455~510	635~685	-	840~915	
LAV	LAVATORY (TO RIM)	785 MAX ¹⁾			785	865 MAX	2)
MG	GLASS MIRROR (BTM.)	915 MAX			1,220	1,015 MAX	LOCATED ABOVE LAVATORIES OR COUNTERTOPS
MG	GLASS MIRROR (BTM.)	-	-	-	-	890 MAX	NOT LOCATED ABOVE LAVATORIES OR COUNTERTOPS
MG	FULL-LENGTH GLASS MIRROR (TOP)	-	-	-	1,980	1,880 MIN	
PTDWR	PAPER TOWEL DISPENSER & WASTE RECEPTACLE (BY OUTPUT POINT)	REACH RANGE 510~915	455~1,015	405~1,120	1,220~1,370	380~1,220	
SD	COUNTER MOUNTED SOAP DISPENSER (CENTER LINE)	785			1,015	865	
SD	SOAP DISPENSER	REACH RANGE 510~915	455~1,015	405~1,120	1,015	380~1,220	
SND	SANITARY NAPKIN DISPOSER	REACH RANGE 510~915	455~1,015	405~1,120	760~1,220	380~1,220	WOMEN ONLY
SV	SHELVING	-	-	-	1,830~2,030	1015~1,220	
TTD	TOILET TISSUE DISPENSER (TO OUTLET)	355~485	355~430	430~485	760~915	380~1,220	3)
UR	URINAL (TO RIM)	-	-	-	610	430	
WC	WATER CLOSET (SEAT TOP)	280~430	305~380	380~430	405	430~485	4)
HS	HAND SANITIZER	REACH RANGE 510~915	455~1,015	405~1,120	1,220~1,370	380~1,220	

1) FOR CHILDREN AGE 6 THRU 12

2) IN RESIDENTIAL DWELLING UNIT KITCHENS, SINKS THAT ARE ADJUSTABLE TO VARIABLE HEIGHTS, 725mm MINIMUM AND 900mm, SHALL BE PERMITTED WHERE ROUGH-IN PLUMBING PERMITS CONNECTIONS OF SUPPLY AND DRAIN PIPES FOR SINKS MOUNTED AT THE HEIGHT OF 725mm.

3) THE OUTLET OF THE TOILET PAPER DISPENSER SHALL NOT BE LOCATED BEHIND GRAB BAR. FOR CHILDREN'S USE, THERE SHALL BE A CLEARANCE OF 37.5mm MINIMUM BELOW THE GRAB BAR.

4) IN RESIDENTIAL DWELLING UNITS, THE HEIGHT OF WATER CLOSETS SHALL BE PERMITTED TO BE 375mm MINIMUM AND 475mm MAXIMUM ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE SEAT.

5) THIS TABLE WAS PREPARED IN ACCORDANCE WITH ADA-ABA ACCESSIBILITY GUIDELINES.



O&MA STANDARD DETAILS, KOREA

TITLE

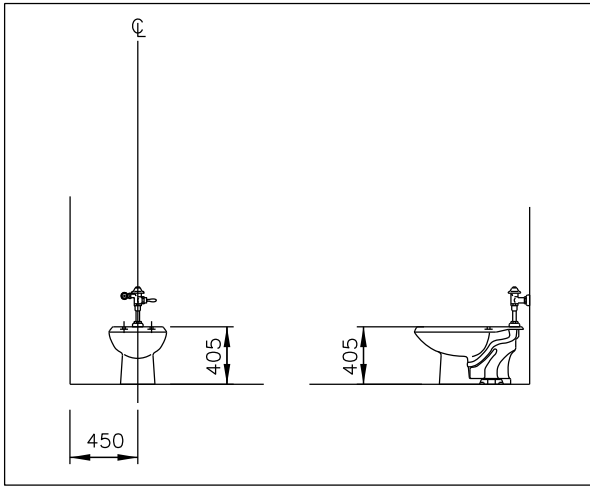
TOILET FIXTURE & ACCESSORY MOUNTING HEIGHT SCHEDULE

OMA SPEC

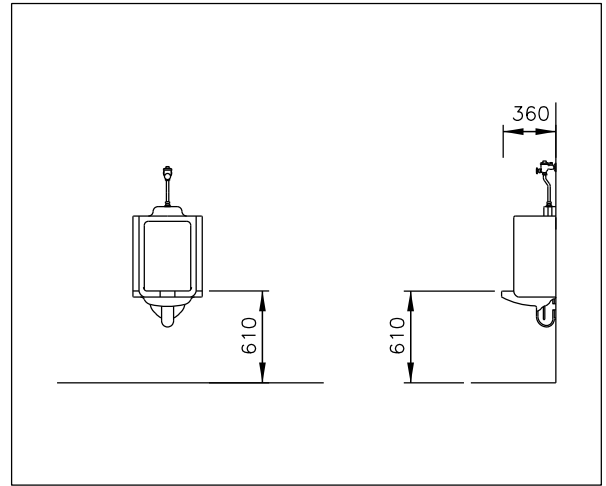
102813

DWG NO.

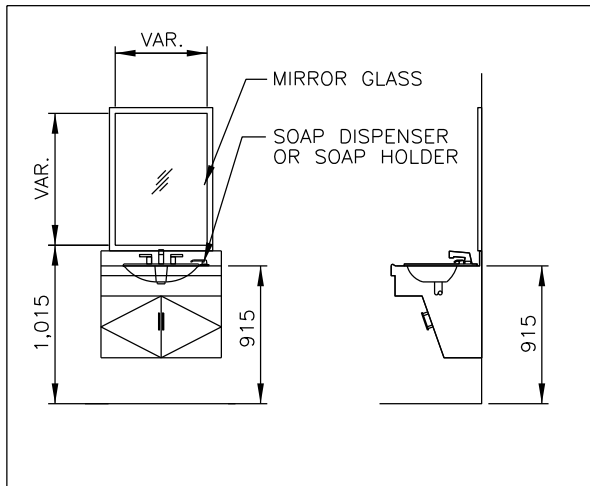
A - 1701



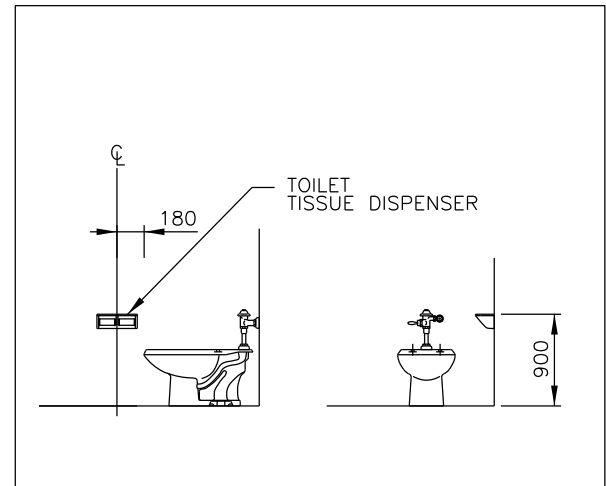
A WATER CLOSET



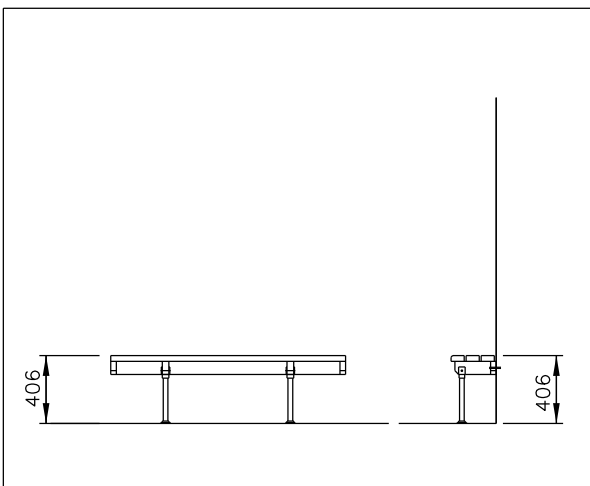
B URINAL



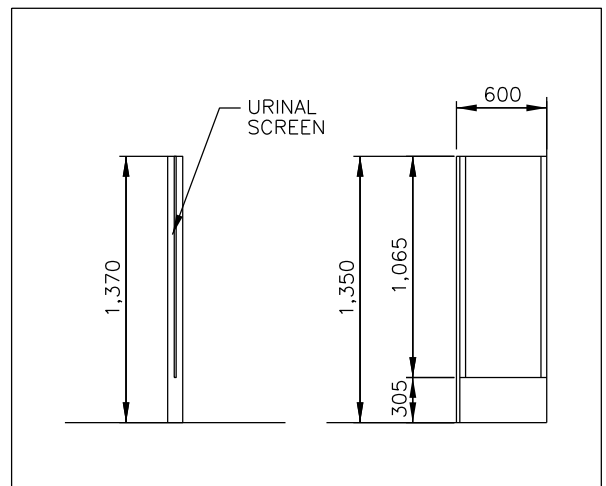
C LAVATORY



D TISSUE DISPENSER



E SHOWER BENCH

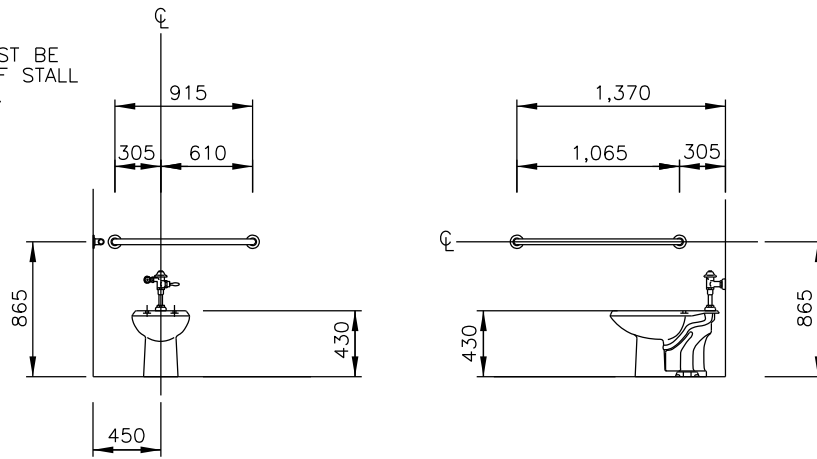


F URINAL SCREEN
(FLOOR SUPPORTED)

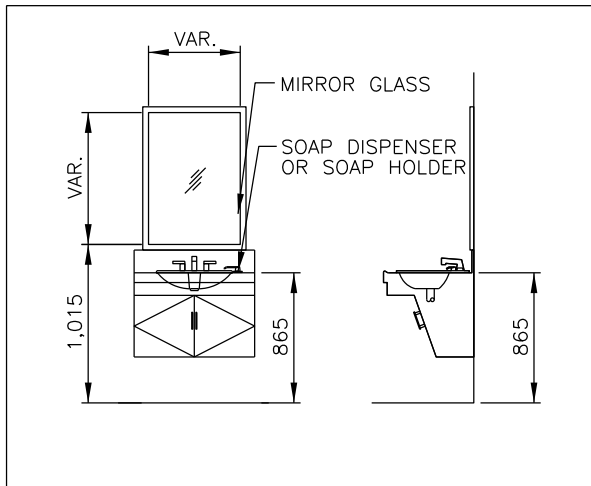
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	ACCESSORIES INSTALLATION ELEVATION (STANDARD)	102813	A - 1702

NOTE :

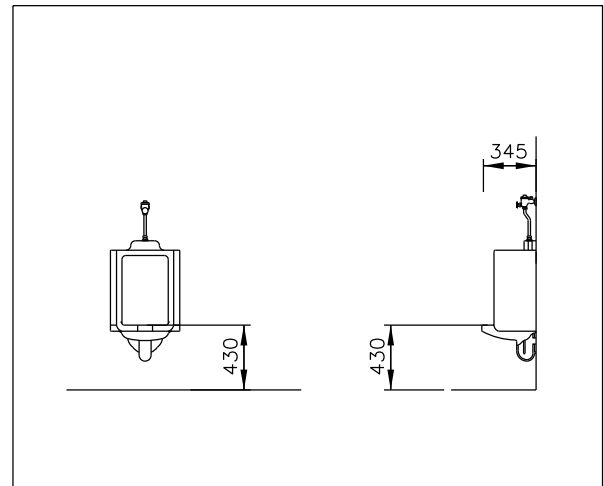
FLUSH LEVER MUST BE ON OPEN SIDE OF STALL AWAY FROM WALL.



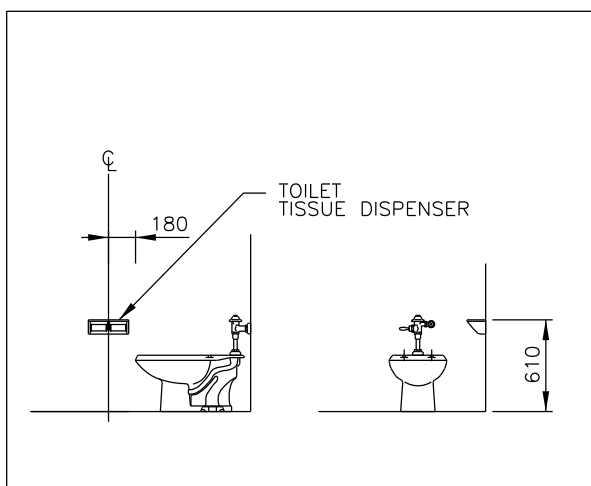
(A) WATER CLOSET & ACCESSORIES



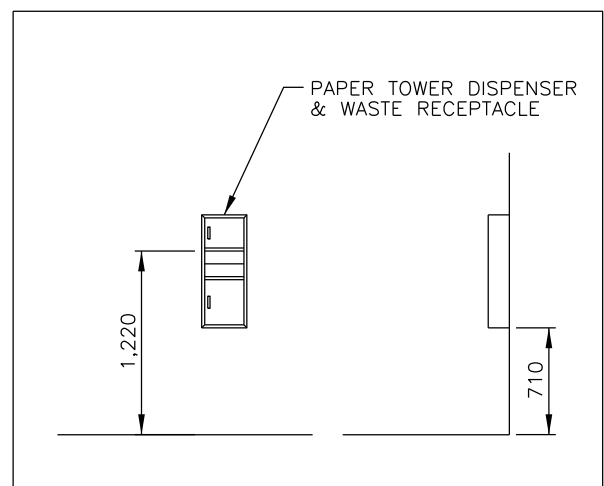
(B) LAVATORY



(C) URINAL

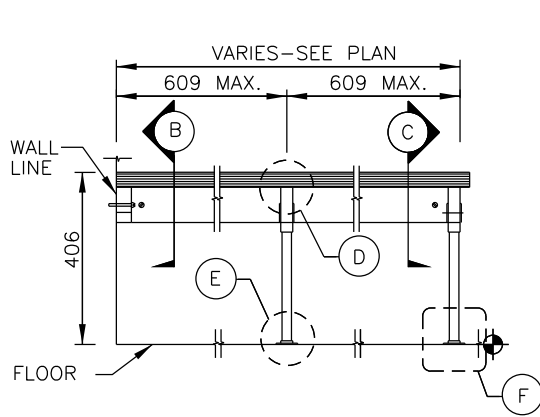


(D) TISSUE DISPENSER

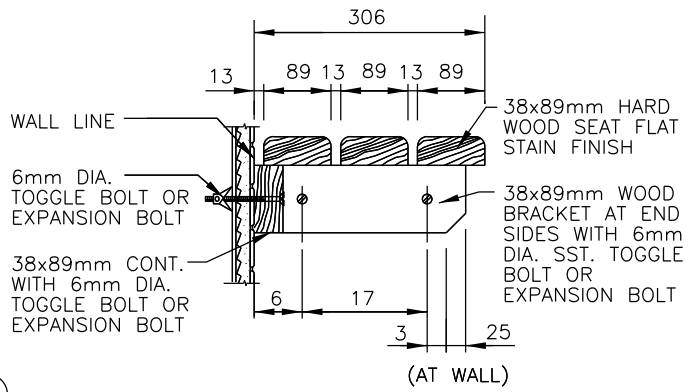


(E) PAPER TOWER DISPENSER

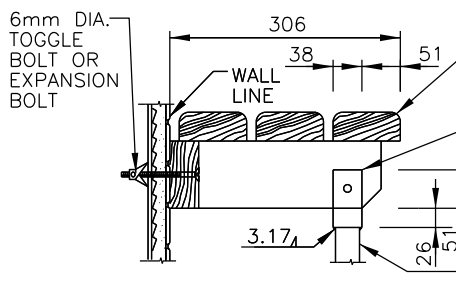
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	ACCESSORIES INSTALLATION ELEVATION (HANDICAPPED)	102813	A - 1703



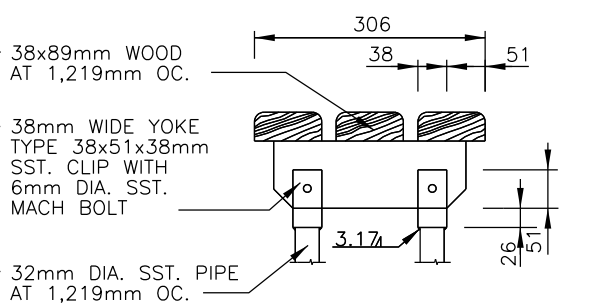
A ELEVATION



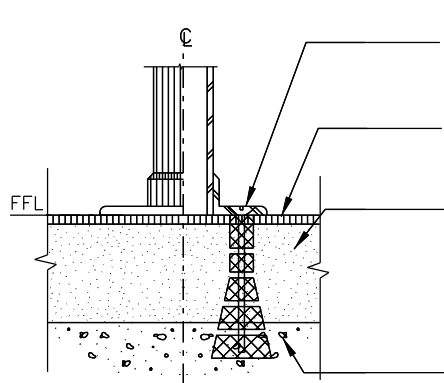
B SECTION



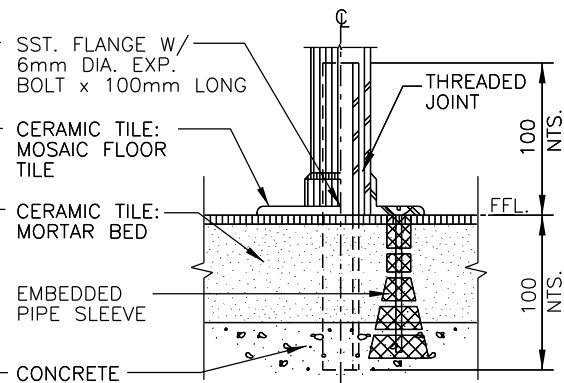
C PIPE SUPPORT (AT END)



D PIPE SUPPORT (INTERMEDIATE)



E AT FLOOR

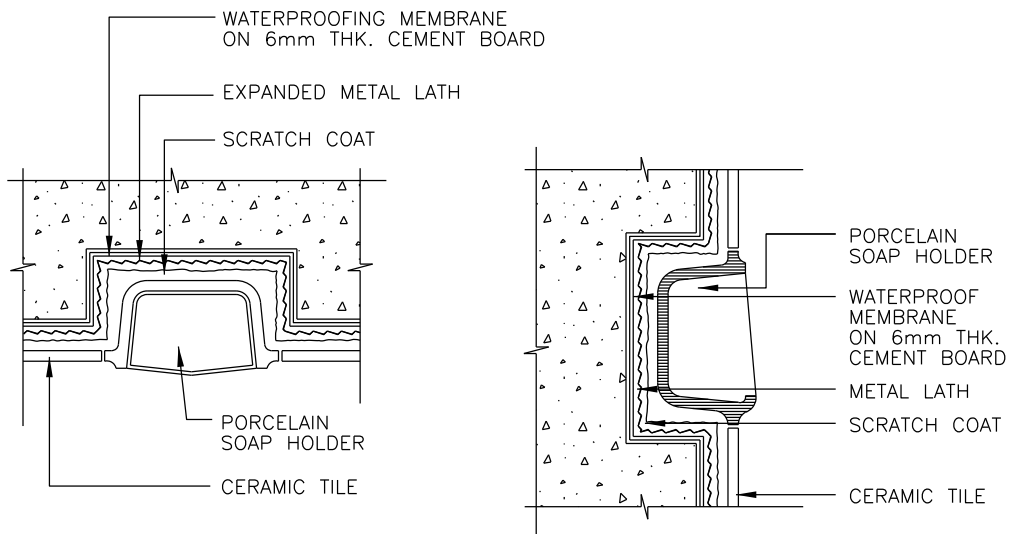


F AT FLOOR (AT SLEEVE)

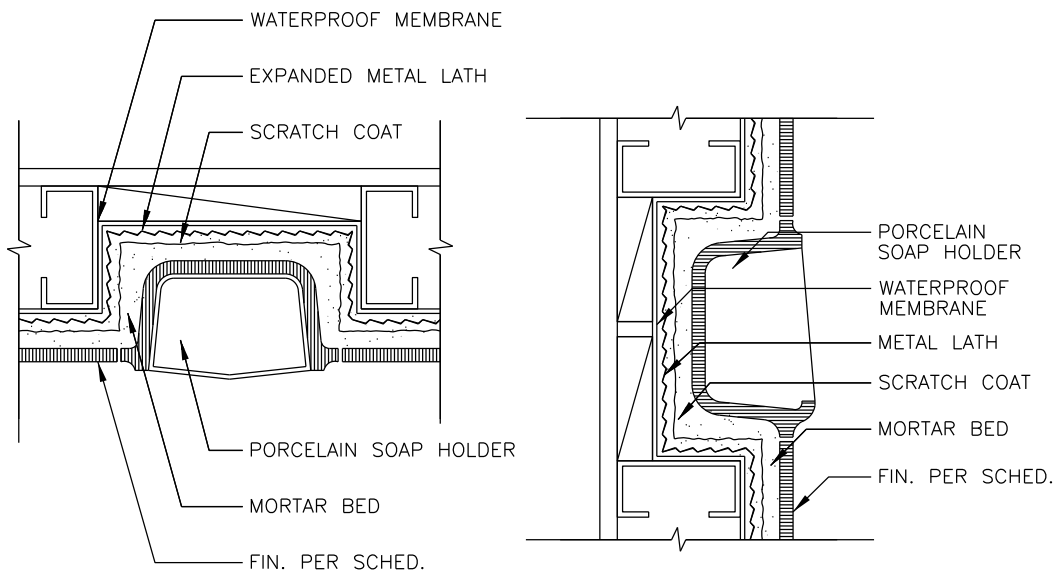
NOTE:
ALL EXPOSED WOOD SHALL BE RED OAK

SHOWER BENCH
NOT TO SCALE

	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TOILET ACCESSORIES (SHOWER BENCH)	102813	A - 1704



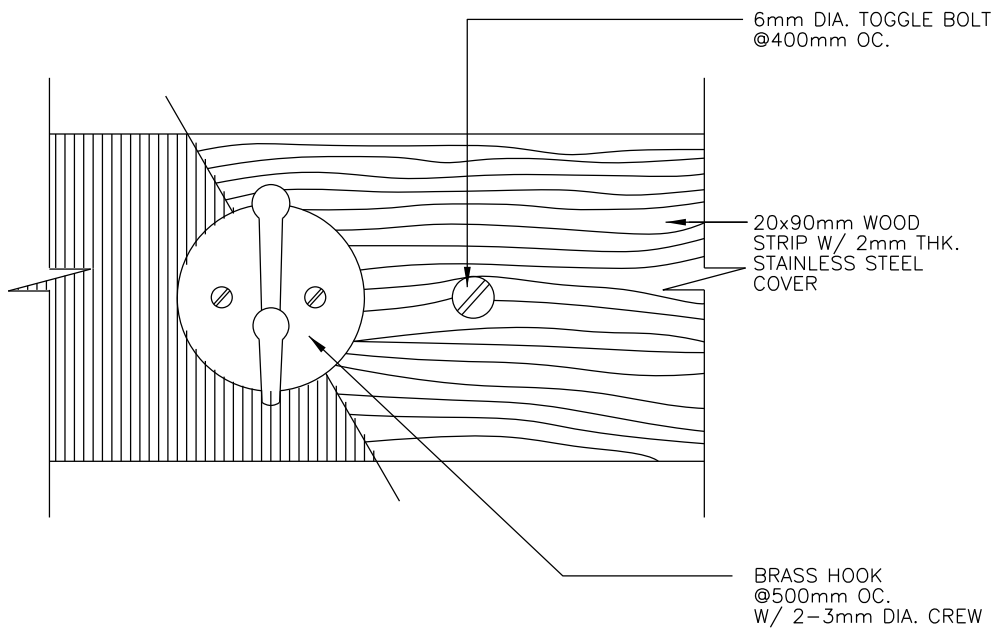
A AT BATH ROOM MOUNTED ON CONC. WALL



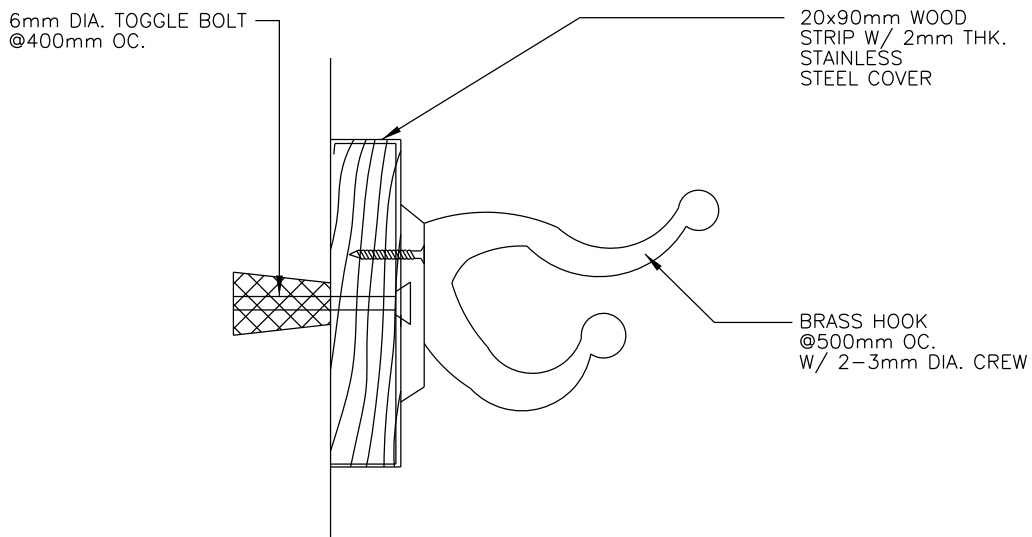
B AT BATH ROOM MOUNTED ON GWB./GGB. WALL

RECESSED SOAP HOLDER
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TOILET ACCESSORIES (RECESSED SOAP HOLDER)	102813	A - 1705



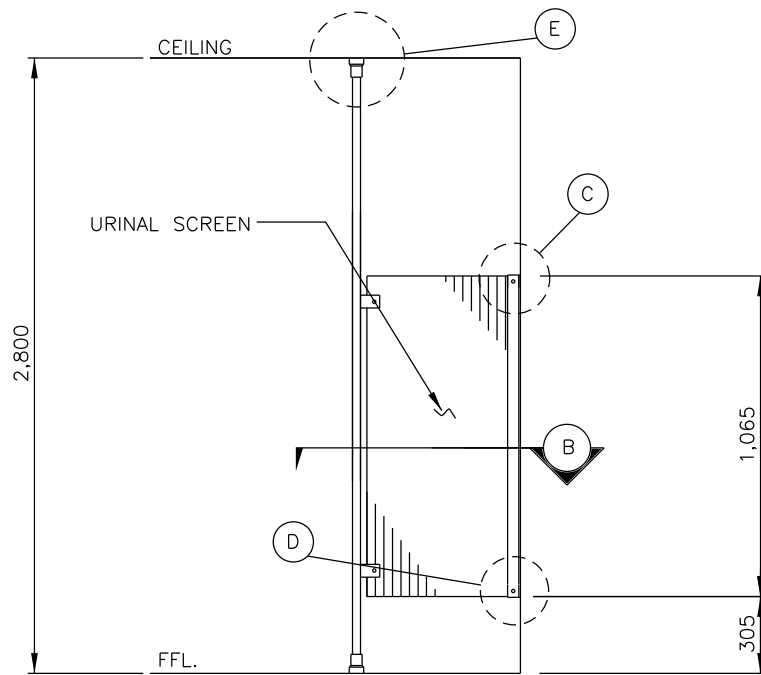
A ELEVATION



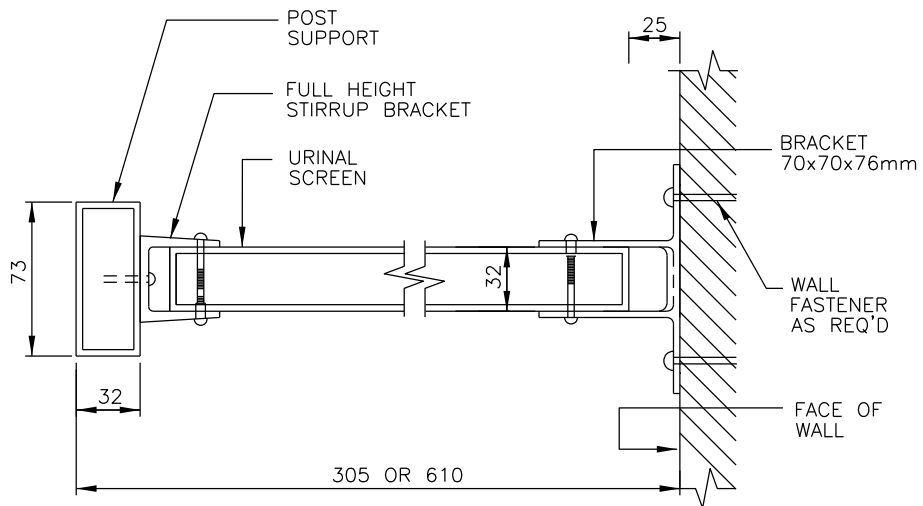
B SECTION

ROBE HOOK
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TOILET ACCESSORIES (ROBE HOOK)	102813	A - 1706



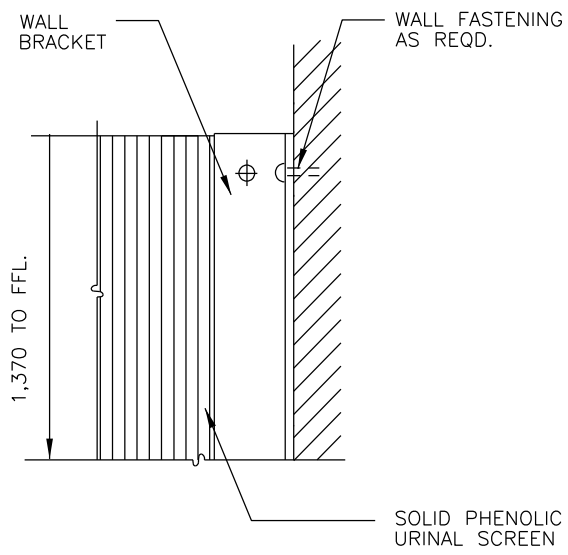
(A) ELEVATION



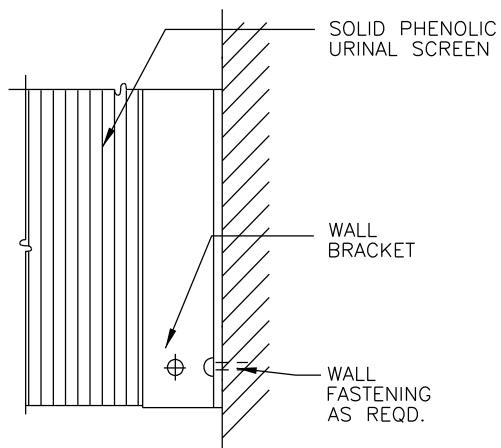
(B) SECTION

URINAL SCREEN(FLOOR TO CEILING)
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TOILET ACCESSORIES (URINAL SCREEN - 1)	102813	A - 1707



C DETAIL

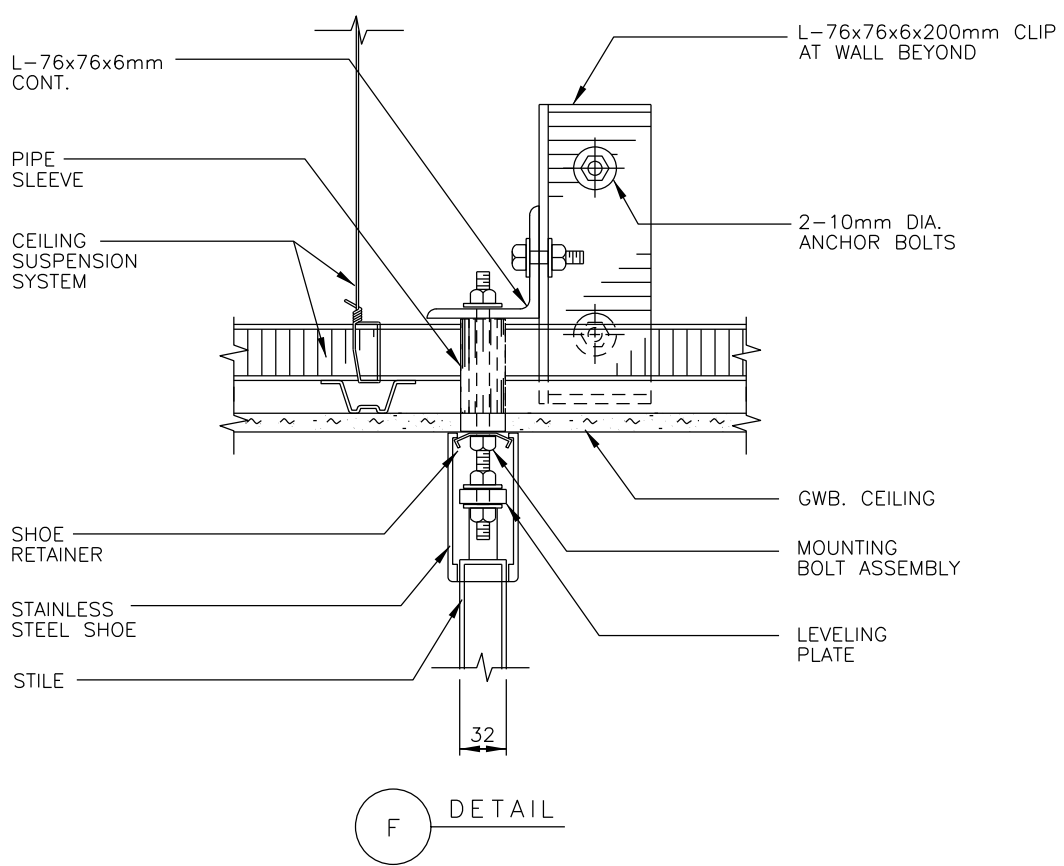
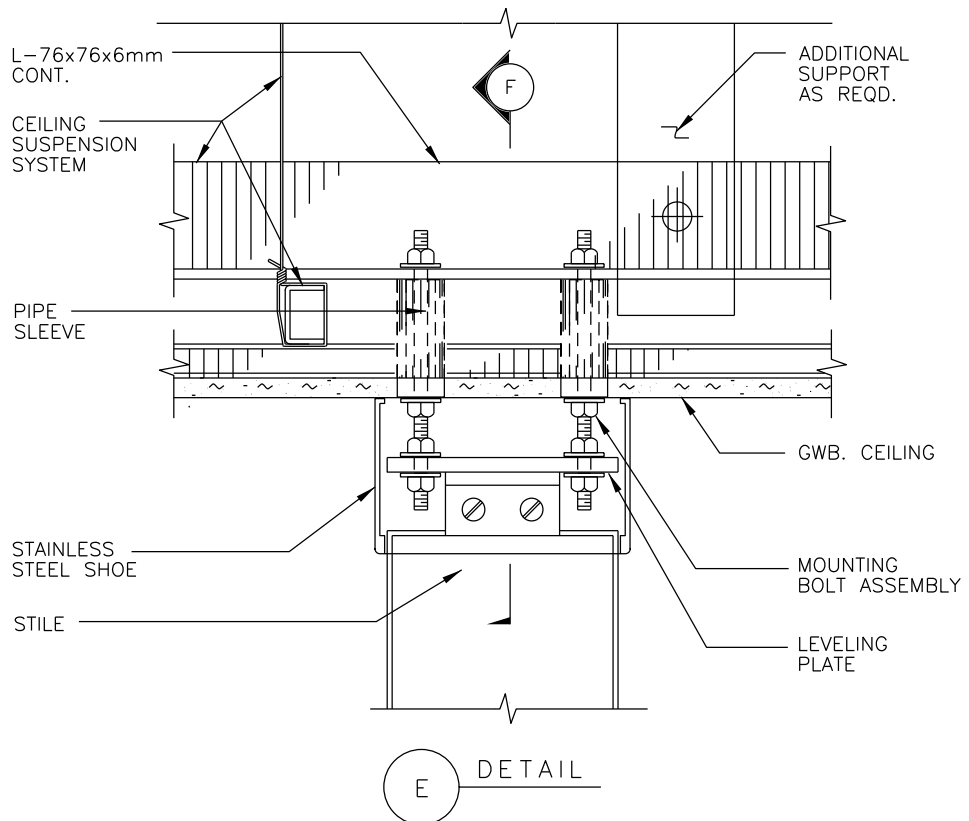


D DETAIL

URINAL SCREEN
NOT TO SCALE

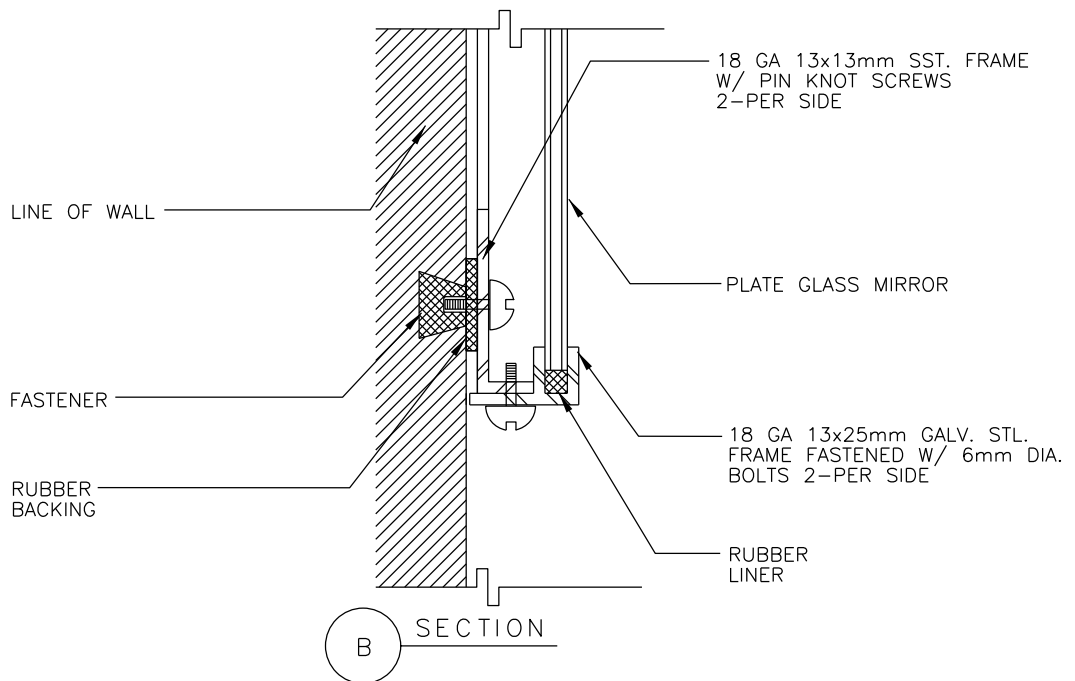
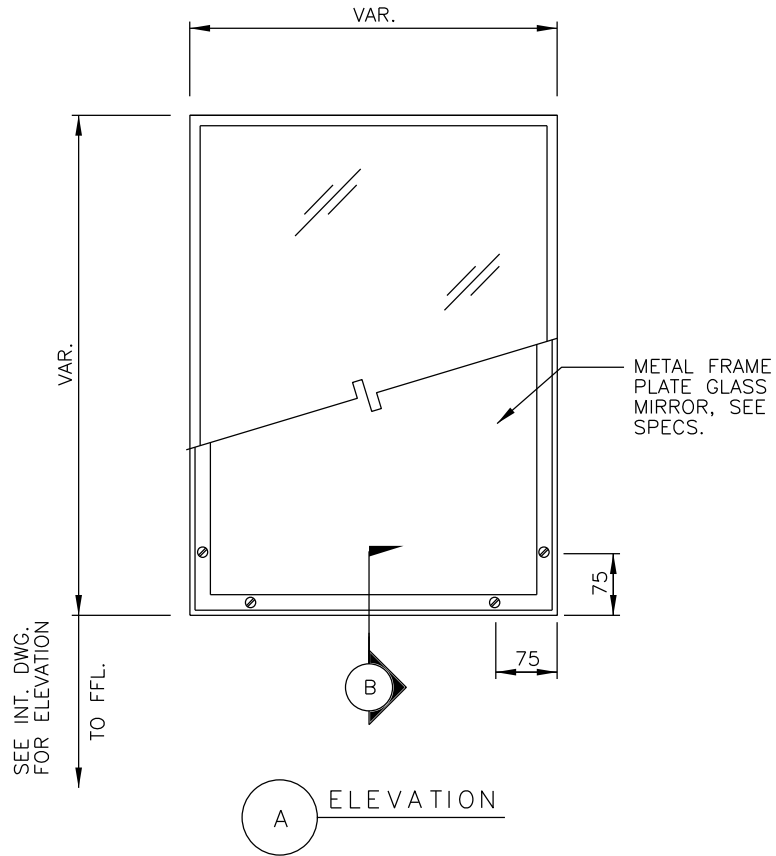
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TOILET ACCESSORIES (URINAL SCREEN - 2)	102813	A - 1708

REV DATE: NOV 2015



URINAL SCREEN
NOT TO SCALE

	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TOILET ACCESSORIES (URINAL SCREEN - 3)	102813	A - 1709



MIRROR
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

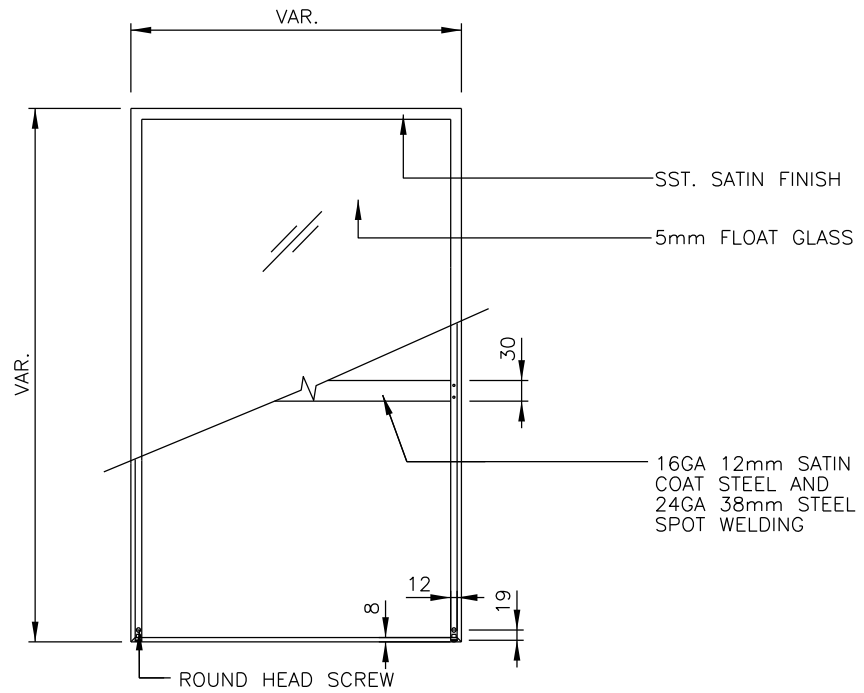
TOILET ACCESSORIES (MIRROR)

OMA SPEC

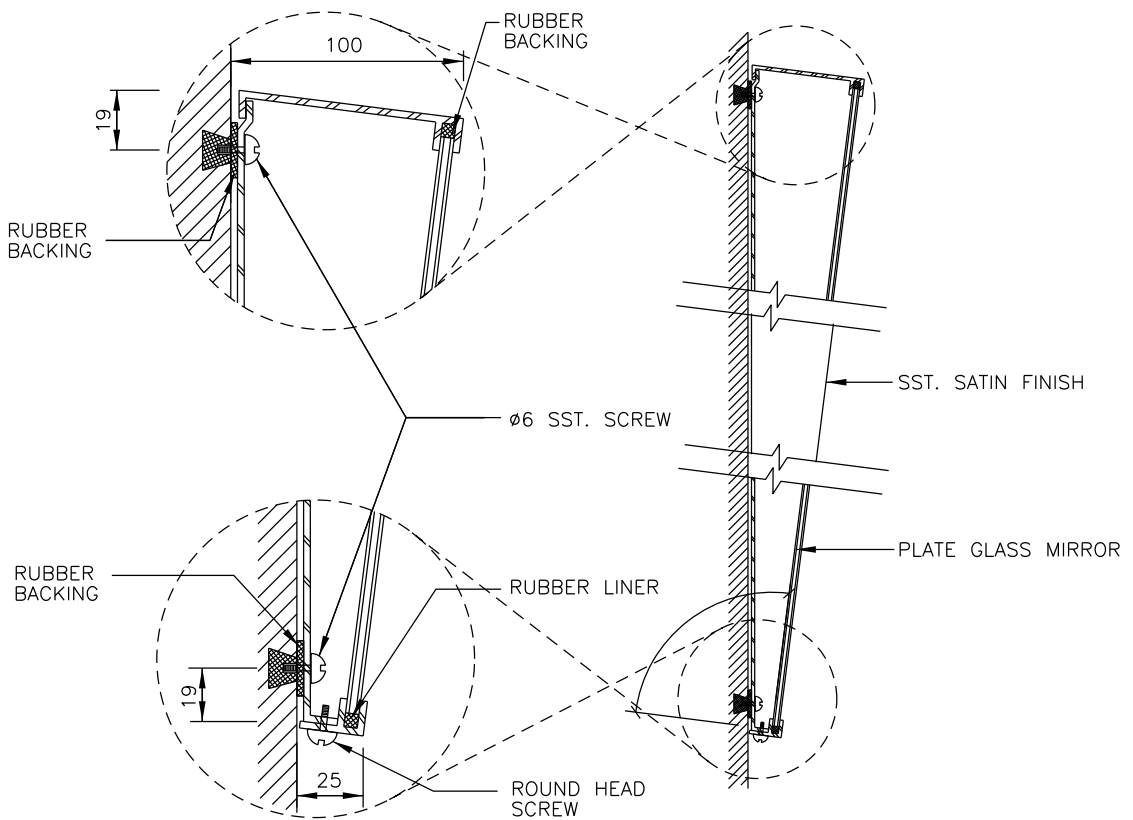
102813

DWG NO.

A - 1710



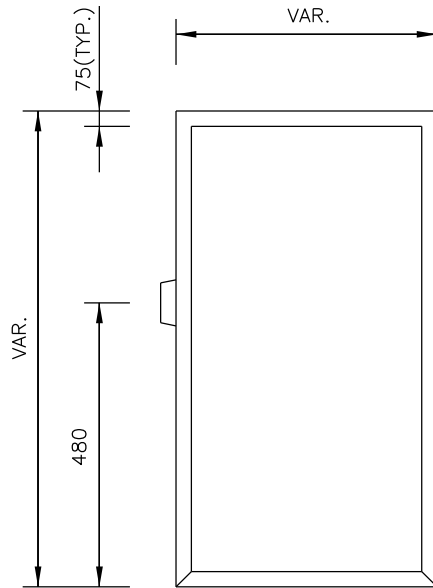
A ELEVATION



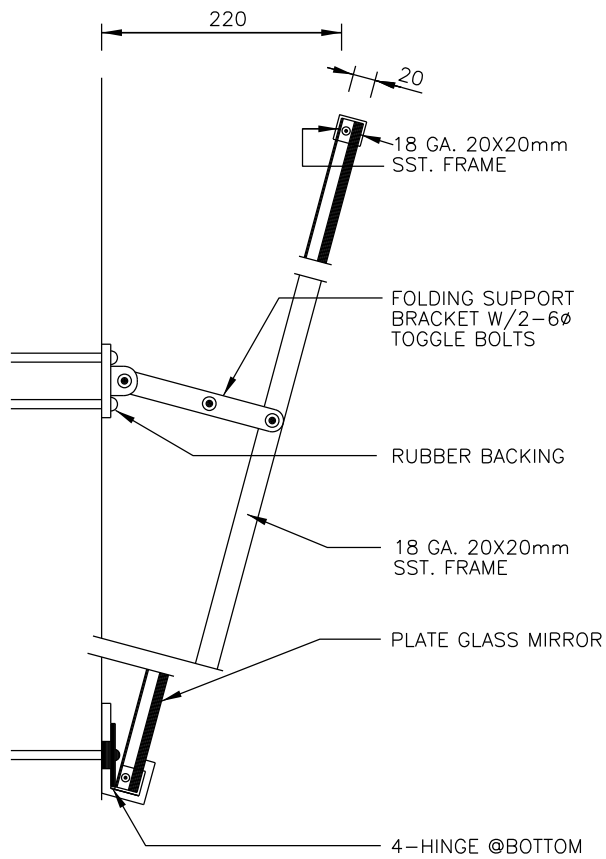
B SECTION

FIXED TILT MIRROR GLASS
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TOILET ACCESSORIES (FIXED TILT MIRROR GLASS)	102813	A - 1711



A ELEVATION



B SECTION

TILTING MIRROR GLASS

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

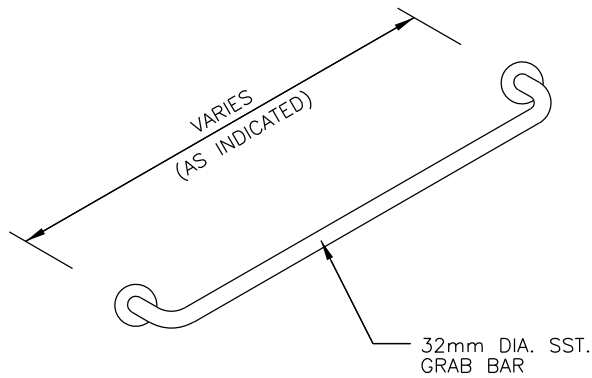
DWG NO.

TITLE

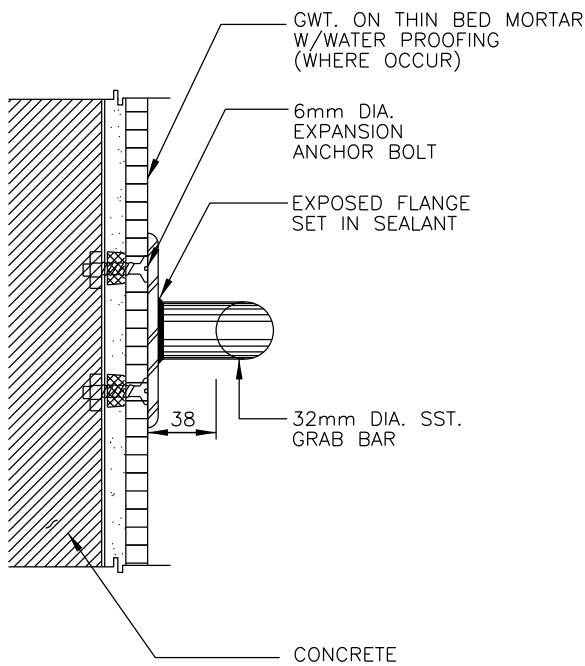
TOILET ACCESSORIES (TILTING MIRROR GLASS)

102813

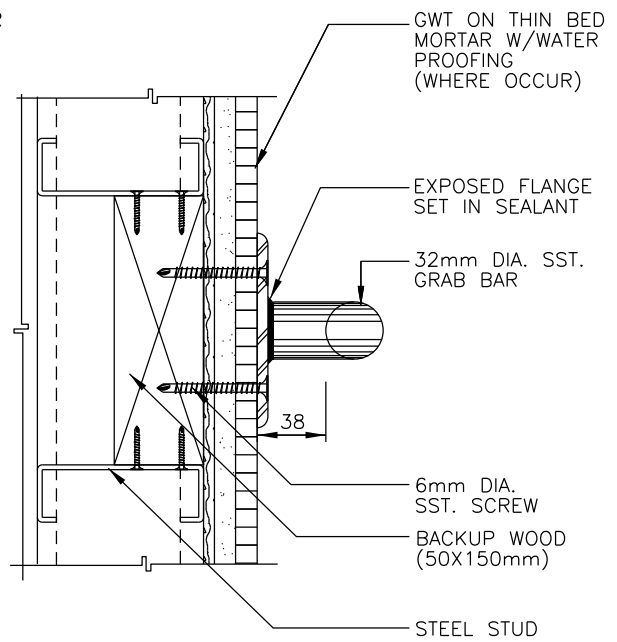
A - 1712



A ISOMETRIC



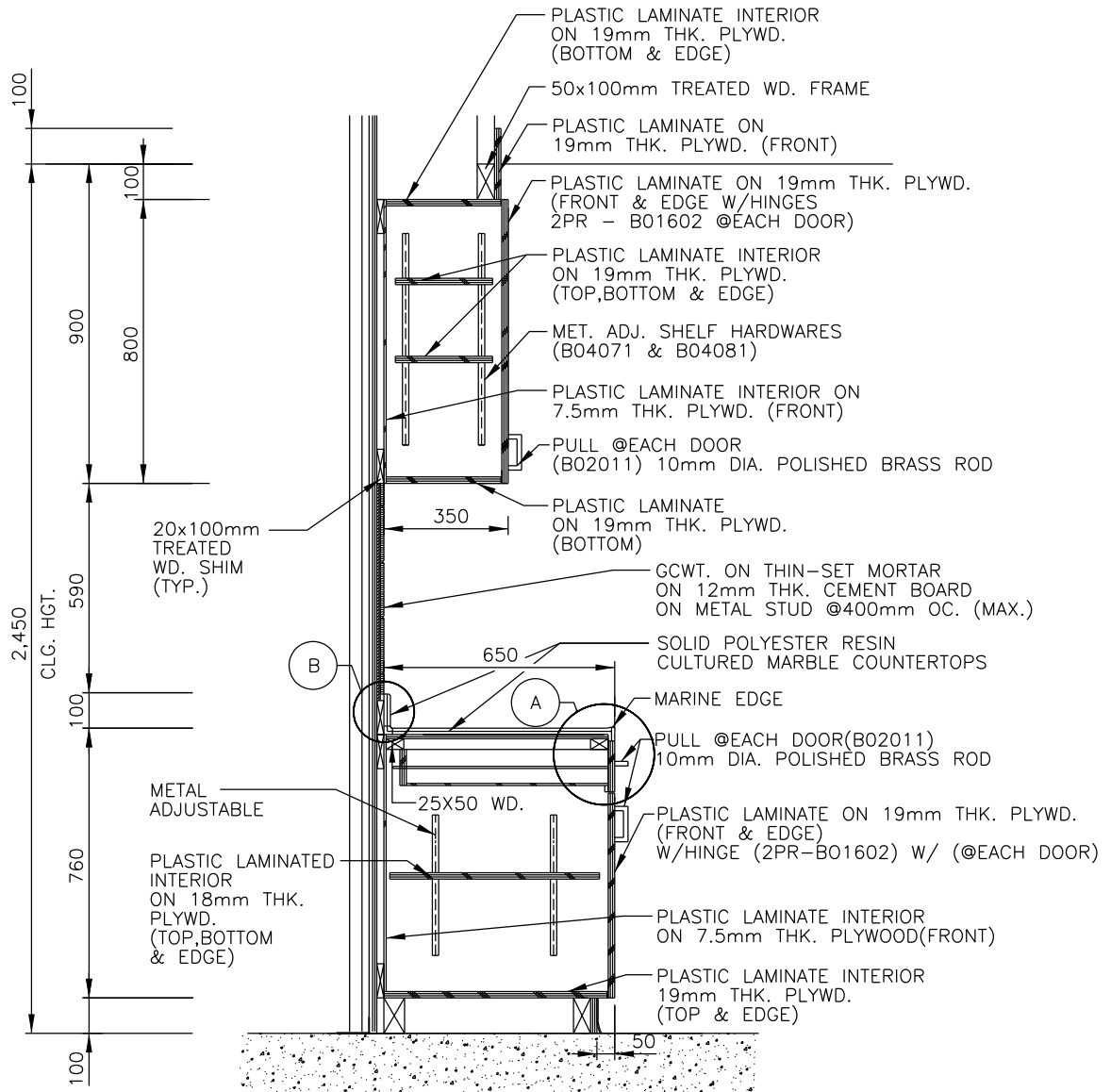
B CONCRETE WALL



C GWT. WALL

GRAP BAR
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TOILET ACCESSORIES (GRAP BAR)	102813	A - 1713

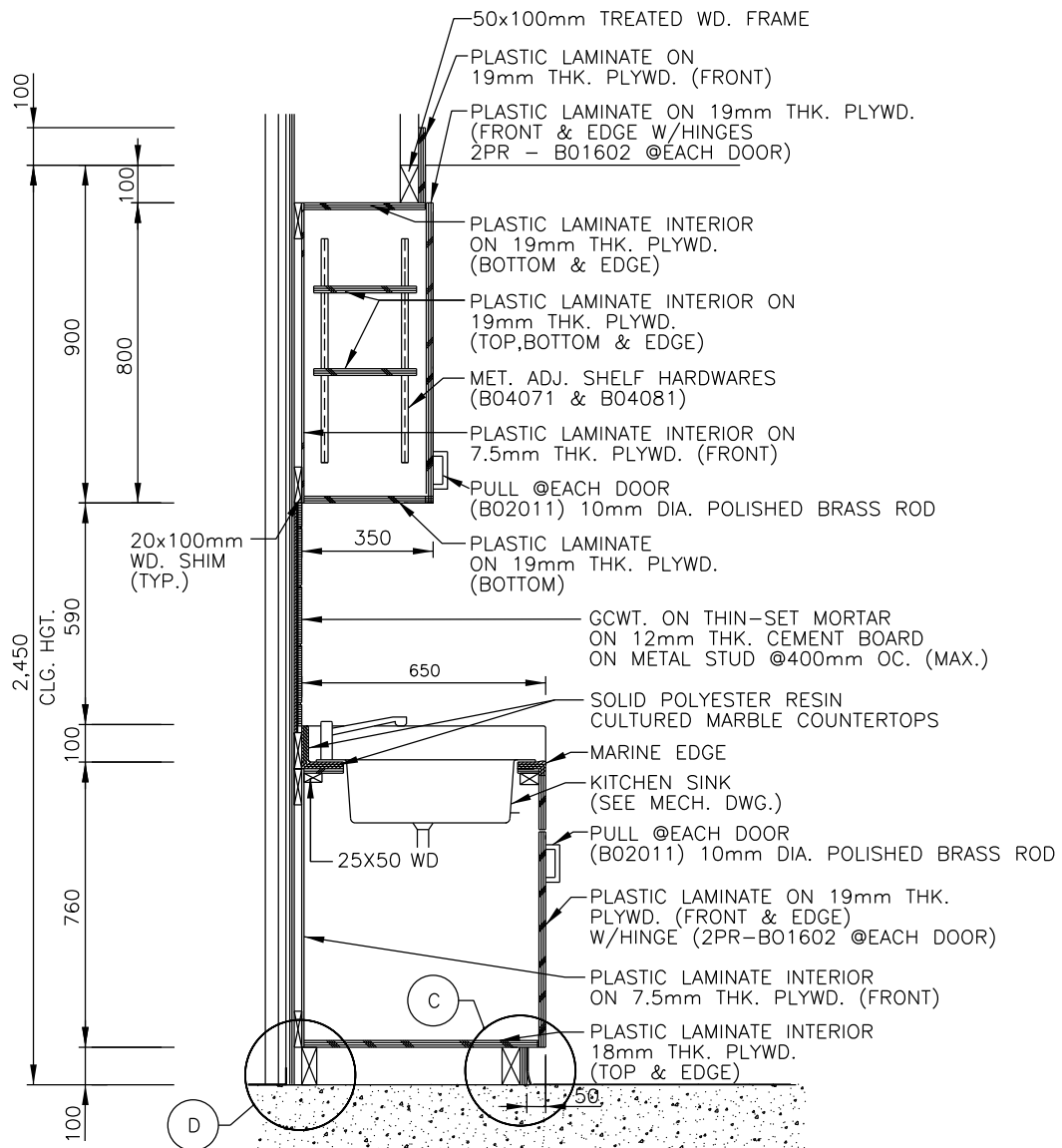


KITCHEN CABINETS

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	KITCHEN CABINET - 1	123200	A - 1801

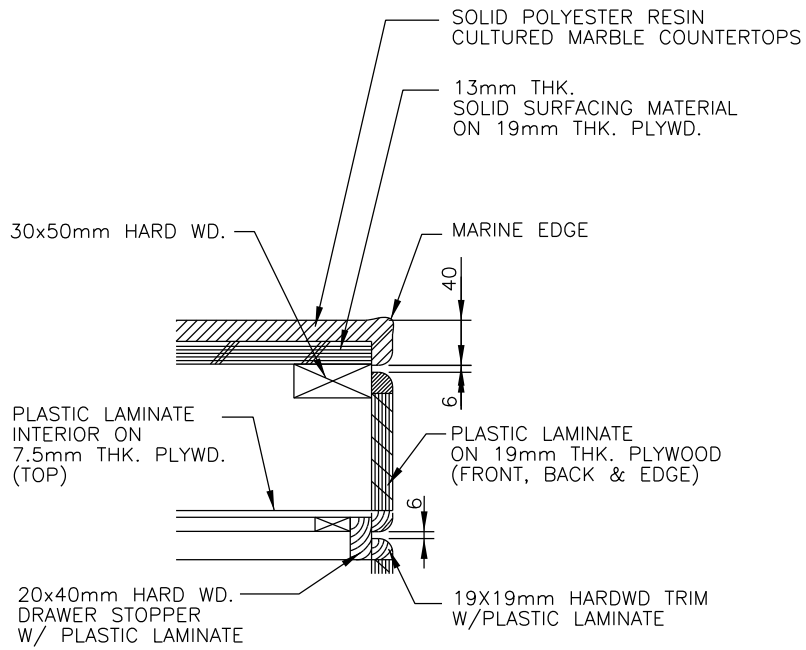
REV DATE: NOV 2015



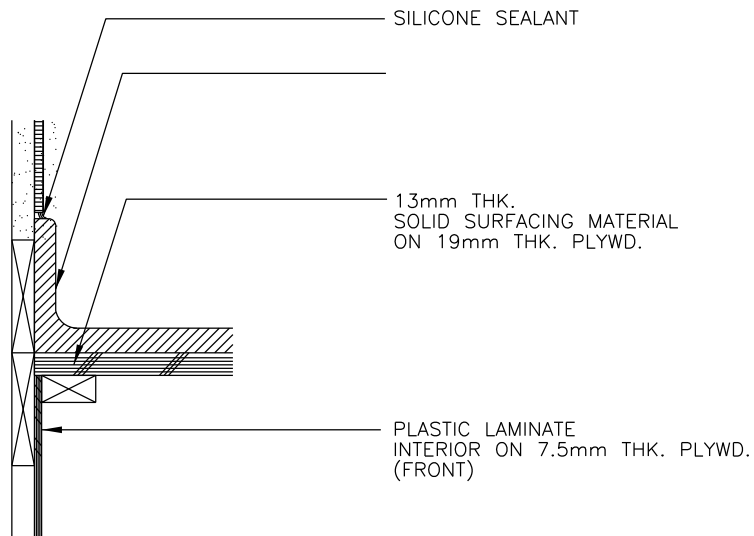
KITCHEN CABINETS

NOT TO SCALE

 <p>IMCOM</p>	<p>O&MA STANDARD DETAILS, KOREA</p>		<p>OMA SPEC</p>	<p>DWG NO.</p>
	<p>TITLE</p>	<p>KITCHEN CABINETS - 2</p>	<p>123200</p>	<p>A - 1802</p>



A DETAIL



B DETAIL

KITCHEN CABINET DETAIL

NOT TO SCALE



IMCOM

O&MA STANDARD DETAILS, KOREA

TITLE

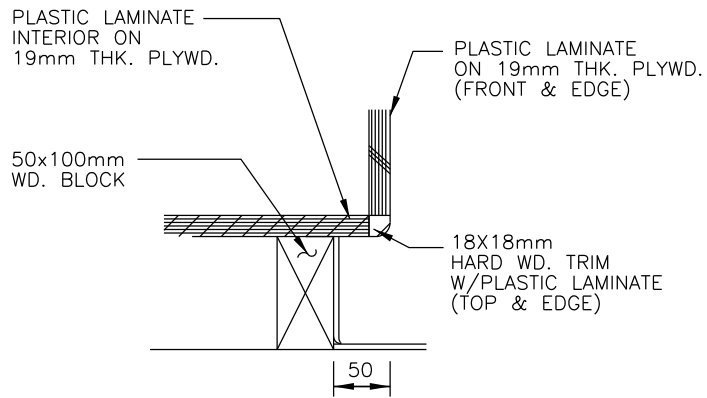
KITCHEN CABINET DETAIL

OMA SPEC

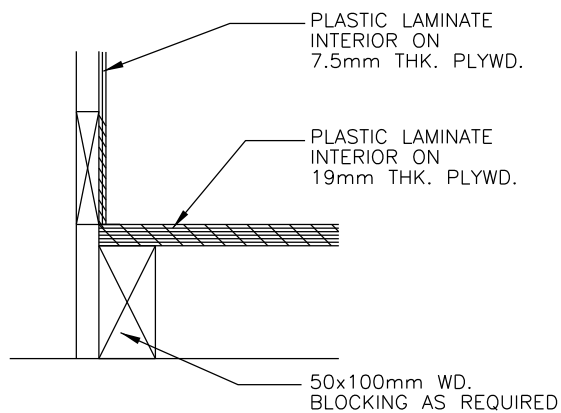
123200

DWG NO.

A - 1803



C DETAIL



D DETAIL

KITCHEN CABINET DETAIL

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	KITCHEN CABINET DETAIL	123200	A - 1804

MECHANICAL STANDARD DETAILS

30 NOVEMBER 2015

DEPARTMENT OF THE ARMY
INSTALLATION MANAGEMENT COMMAND

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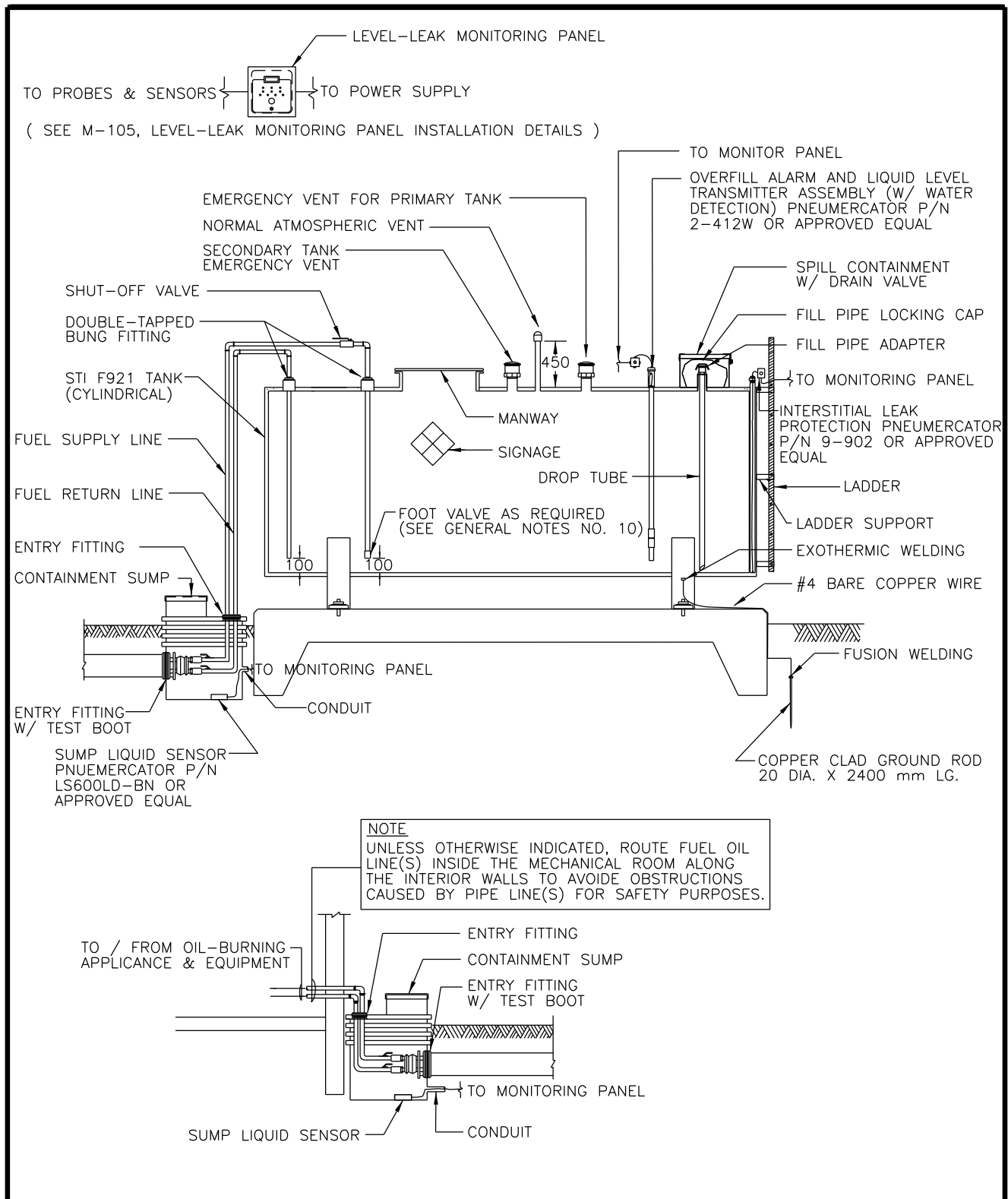
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MISCELLANEOUS

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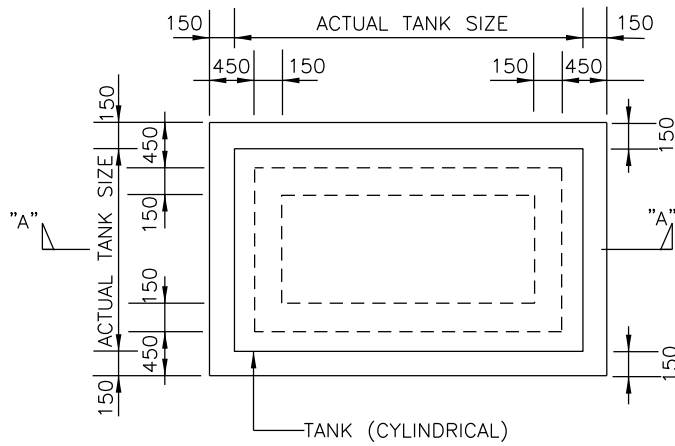
NOTES :

1. ALL UNDERGROUND PIPING SHALL BE CONTINUOUSLY SLOPED TO SUMPS.
2. SUMPS SHALL BE PROVIDED AT ALL LOW POINTS, ALL JOINTS AND CONNECTIONS OF UNDERGROUND PIPING.

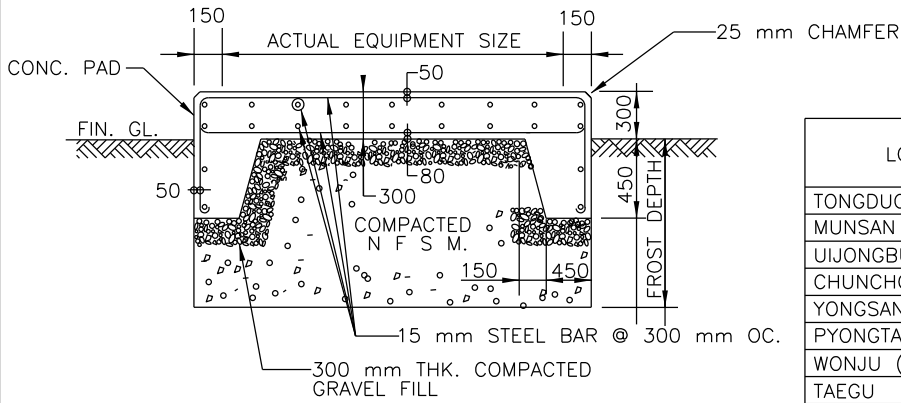
FUEL OIL SYSTEM INSTALLATION DETAIL

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	FUEL OIL SYSTEM INSTALLATION DETAIL	220000	M - 101



A PLAN



A SECTION "A" - "A"

LOCATION	FROST DEPTH (mm)
TONGDUCHON (CP CASEY)	1,200
MUNSAN (CP GIANT)	1,200
UIJONGBU (CP RED CLOUD)	1,200
CHUNCHON (CP PAGE)	1,200
YONGSAN	1,200
PYONGTAEK (CP HUMPHREYS)	1,050
WONJU (CP LONG)	1,050
TAEGU	900
WAEGWAN	900
PUSAN	600

NOTES :

1. THE FOUNDATION SHALL BE SUITABLE TO SUPPORT THE TANK PLUS 100% OF ITS CONTENTS WHEN FULL.
2. CONCRETE COMPRESSIVE STRENGTH (@ 28 DAYS) SHALL BE NOT LESS THAN 210 kg/ cm².
3. REINFORCING BARS SHALL CONFORM TO ASTM A 615, GRADE 40 OR KS D 3504, CLASS 3.
4. ANCHOR BOLTS SHALL CONFORM TO ASTM A 325, A 490 OR KS B 1010 INCLUDING NUTS & WASHERS.

CONCRETE FOUNDATION DETAIL

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

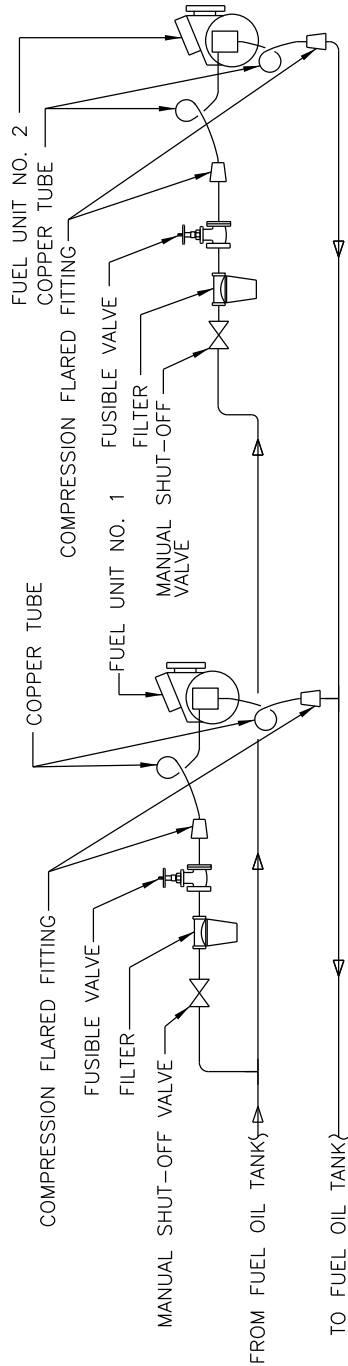
CONCRETE FOUNDATION DETAIL

OMA SPEC

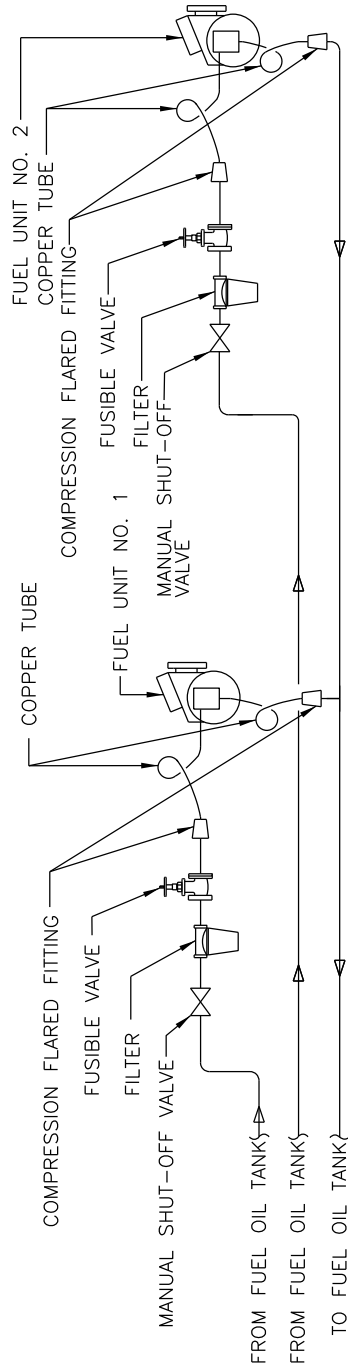
220000

DWG NO.

M - 102



A BURNER PIPING DETAIL #1



B BURNER PIPING DETAIL #2

BURNER PIPING DETAIL
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

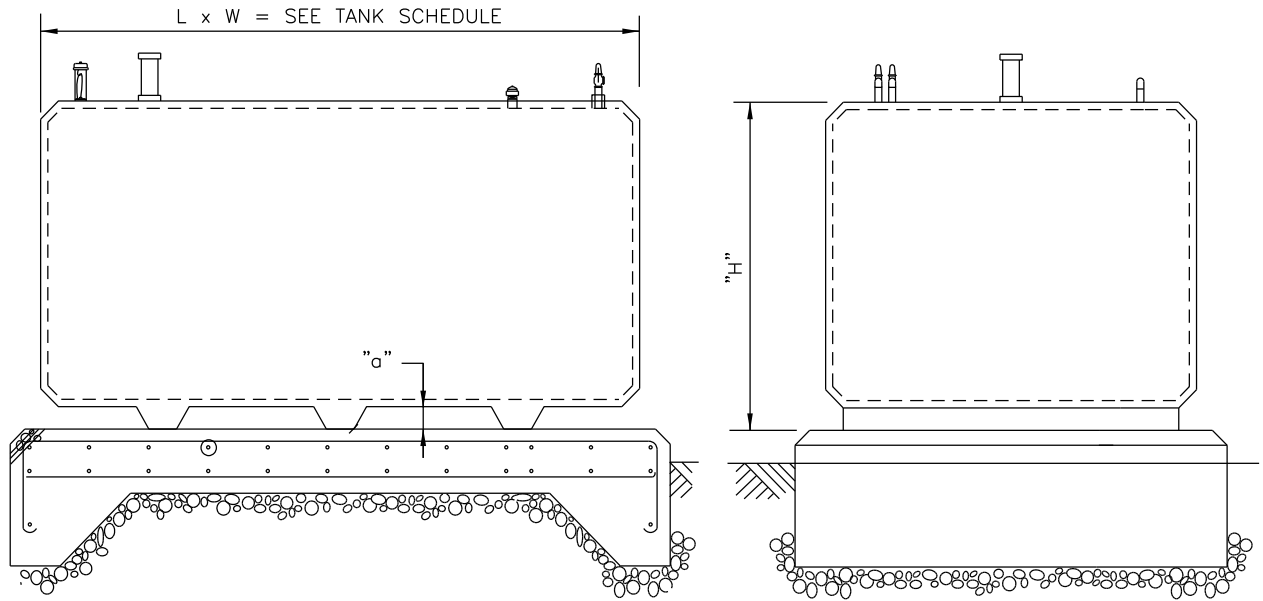
BURNER PIPING DETAIL

OMA SPEC

220000

DWG NO.

M - 103



FUEL OIL STORAGE TANK SCHEDULE

TANK CAP.			"L" (MM)	"W" (MM)	"H" (MM)	"a" (MM)	WT (Kg)	MIN. DIST. TO BLDG (M)	REMARKS
LITER	GALS	TYPE							
946	250		2,340	1,140	990	100	3,629	1.5	
1,893	500		3,350	1,370	1,020	100	5,443	3.1	
3,785	1,000		3,350	1,730	1,320	100	8,165	4.6	
7,570	2,000		3,430	2,440	1,680	150	13,608	4.6	
15,140	4,000	HIGH PROFILE	3,710	2,440	2,670	150	18,144	4.6	
15,140	4,000	LOW PROFILE	5,360	2,440	1,980	150	20,412	4.6	
19,682	5,200	HIGH PROFILE	4,720	2,440	2,670	150	22,680	4.6	
19,682	5,200	LOW PROFILE	4,010	3,630	2,130	150	24,040	4.6	
22,710	6,000		5,360	2,440	2,690	150	25,855	4.6	
30,280	8,000		7,040	2,440	2,690	150	32,659	4.6	
37,850	10,000		8,710	2,440	2,690	150	39,689	4.6	
45,420	12,000		10,400	2,440	2,690	150	45,813	4.6	

NOTES :

1. ALL SIZES AND DIMENSIONS ARE NOMINAL, DEPENDING ON MANUFACTURER'S RECOMMENDATIONS.
2. TANK ANCHORING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

FUEL OIL TANK SPECIFYING SCHEDULE

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TANK SPECIFYING SCHEDULE	220000	M - 104



O&MA STANDARD DETAILS, KOREA

TITLE

OIL LEVEL/LEAK MONITORING

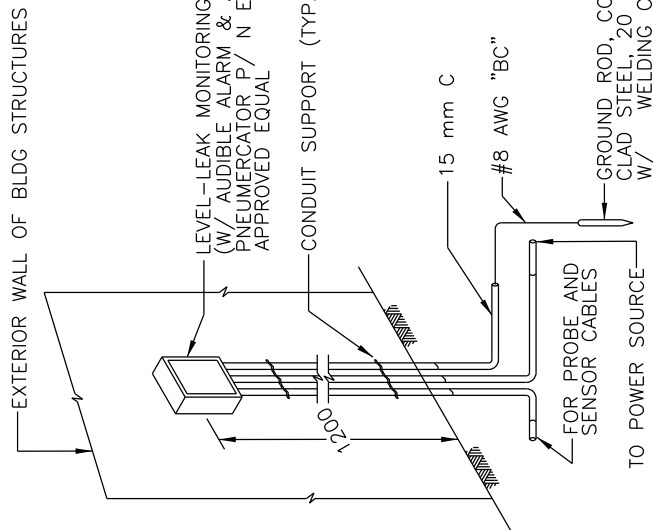
OMA SPEC

220000

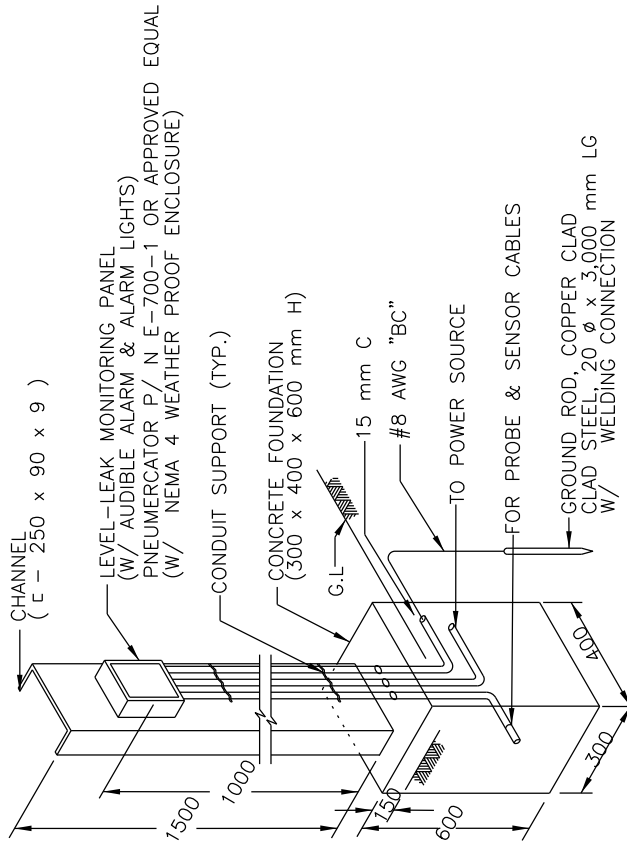
DWG NO.

M - 105

REV DATE: NOV 2015

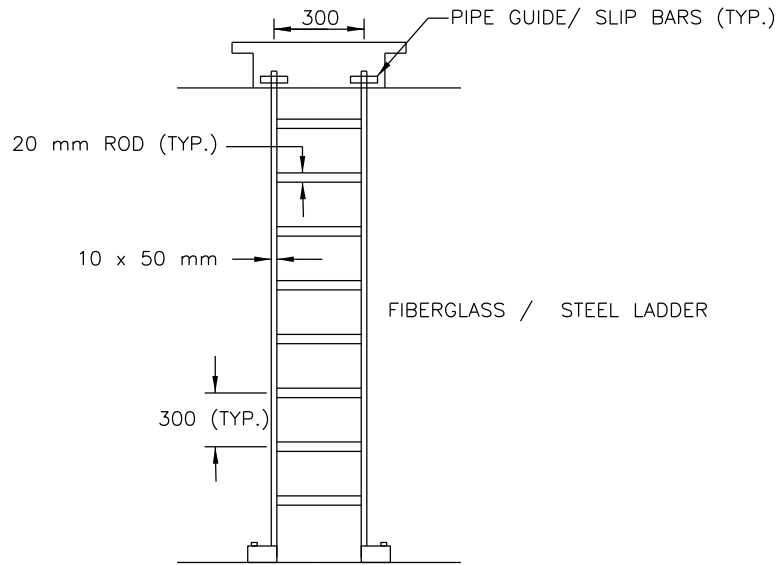


A WALL MOUNTED TYPE

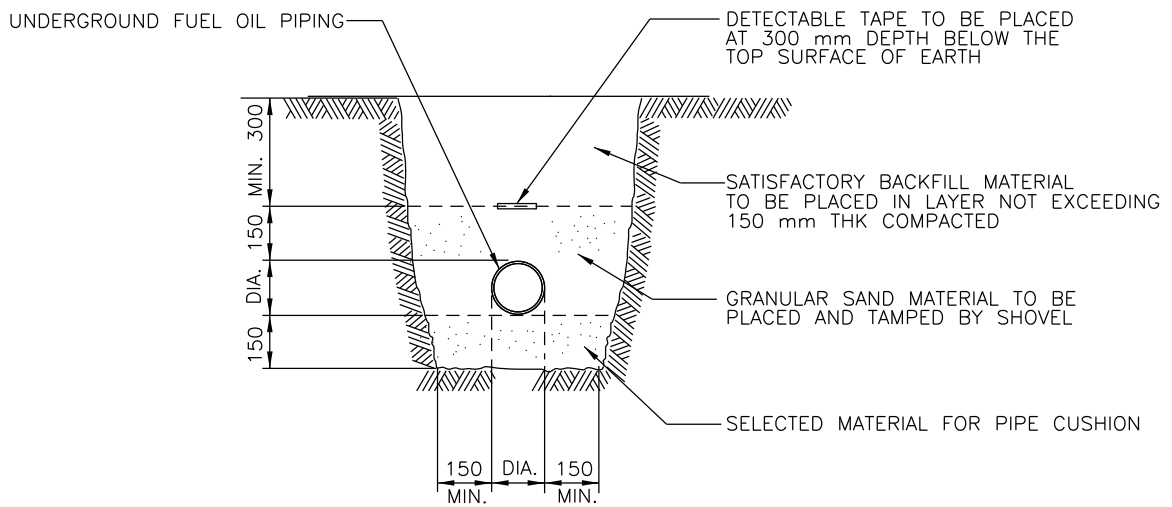


B CHANNEL MOUNTED TYPE

OIL LEVEL / LEAK MONITORING PANEL INSTALLATION DETAIL
NOT TO SCALE



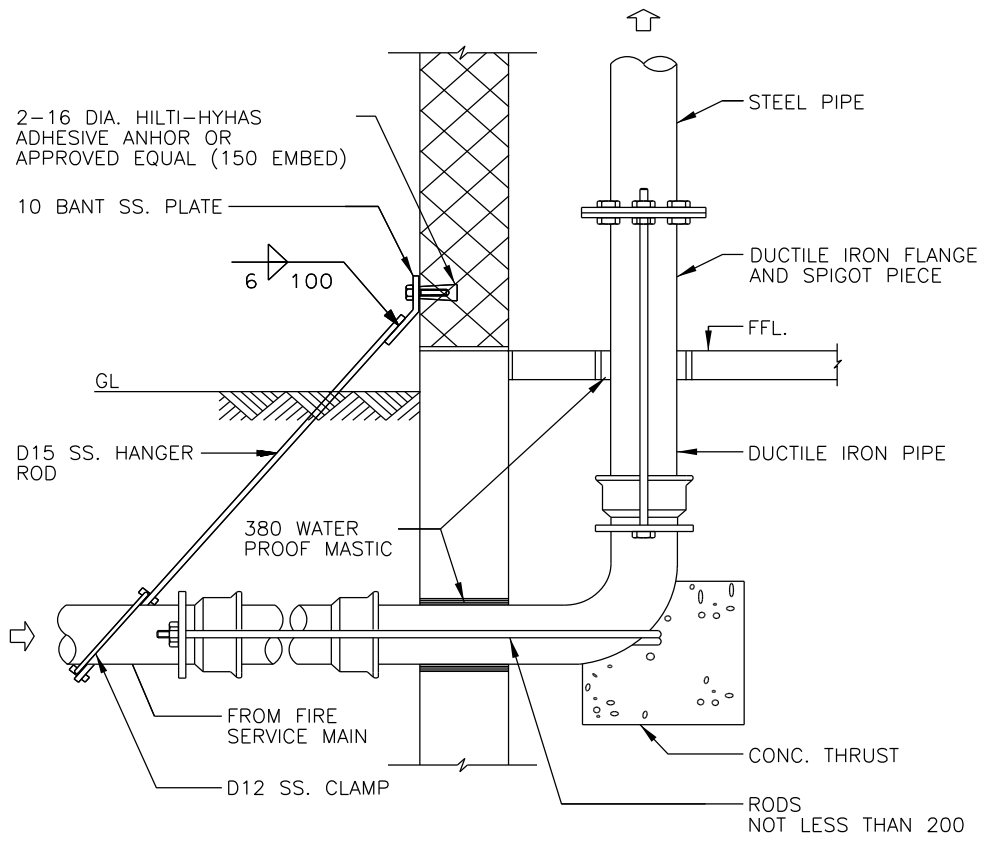
A INTERIOR TANK LADDER DETAIL



B PIPING TRENCH DETAIL

INTERIOR TANK LADDER & PIPING TRENCH
NOT TO SCALE

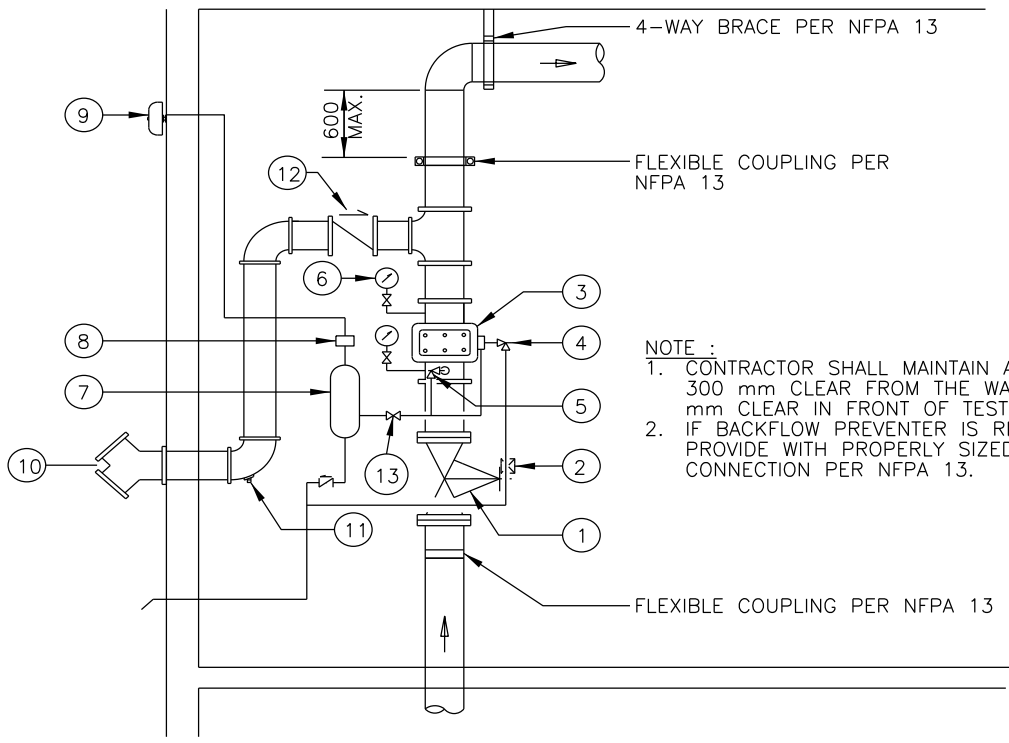
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	INTERIOR TANK LADDER & PIPING TRENCH	220000	M - 106



MAIN RISER CONNECTION
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	MAIN RISER CONNECTION	211313.0010	M -201

REV DATE: NOV 2015

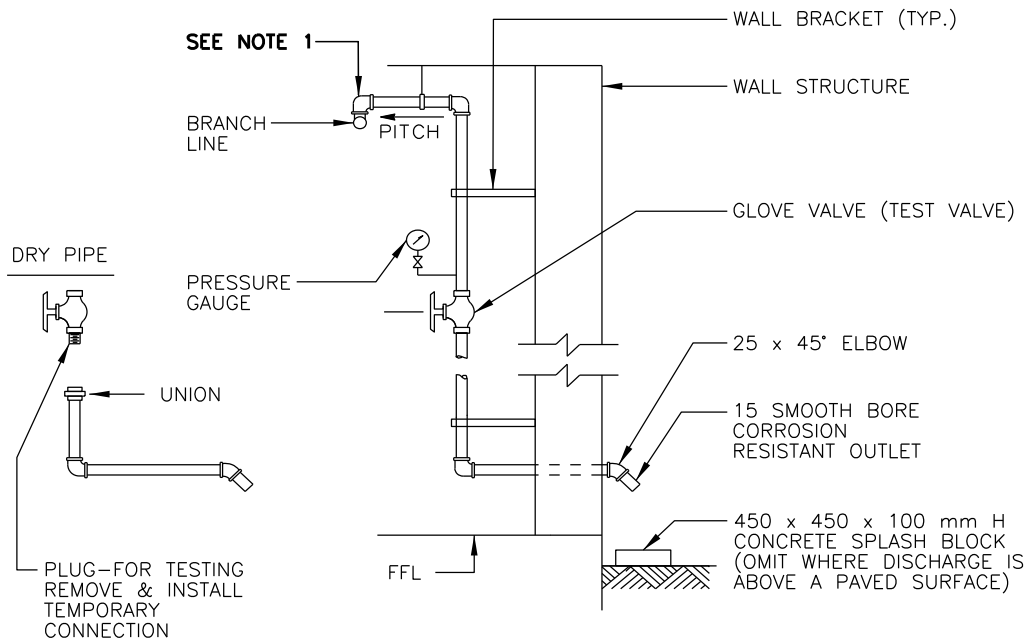


NOTE :
 1. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 300 mm CLEAR FROM THE WALL AND 600 mm CLEAR IN FRONT OF TEST CONNECTION.
 2. IF BACKFLOW PREVENTER IS REQUIRED, PROVIDE WITH PROPERLY SIZED TEST CONNECTION PER NFPA 13.

ITEM	DESCRIPTION	ITEM	DESCRIPTION
①	O.S. & Y VALVE	⑦	RETARDING CHAMBER
②	TAMPER SWITCH	⑧	PRESSURE SWITCH
③	WET PIPE ALARM VALVE	⑨	WATER OPERATED ALARM
④	MAIN DRAIN (VALVE)	⑩	FIRE DEPARTMENT CONN.
⑤	ALARM TEST VALVE	⑪	AUTO BALL DRIP
⑥	WATER GAGE (2 EA)	⑫	CHECK VALVE
		⑬	ALARM TEST SHUTOFF VALVE W/ TAMPER SWITCH

SPRINKLER MAIN RISER
 NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	WET-PIPE SPRINKLER RISER	211313.0010	M -202



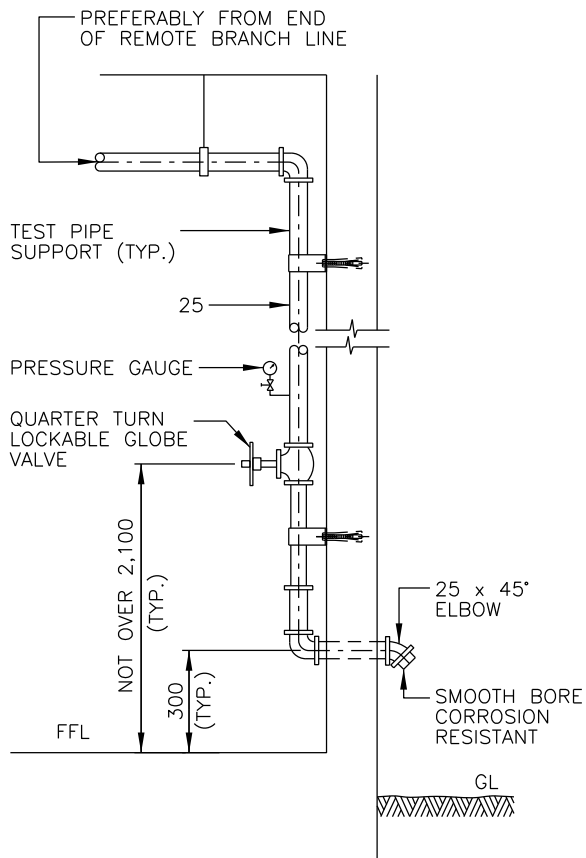
NOTE :

1. ON DRY PIPE SYSTEMS, PROVIDE A NIPPLE—UP OFF THE BRANCH LINE.
2. FLOW THROUGH TEST CONNECTION SHOULD BE EQUIVALENT TO ONE SPRINKLER FLOW.

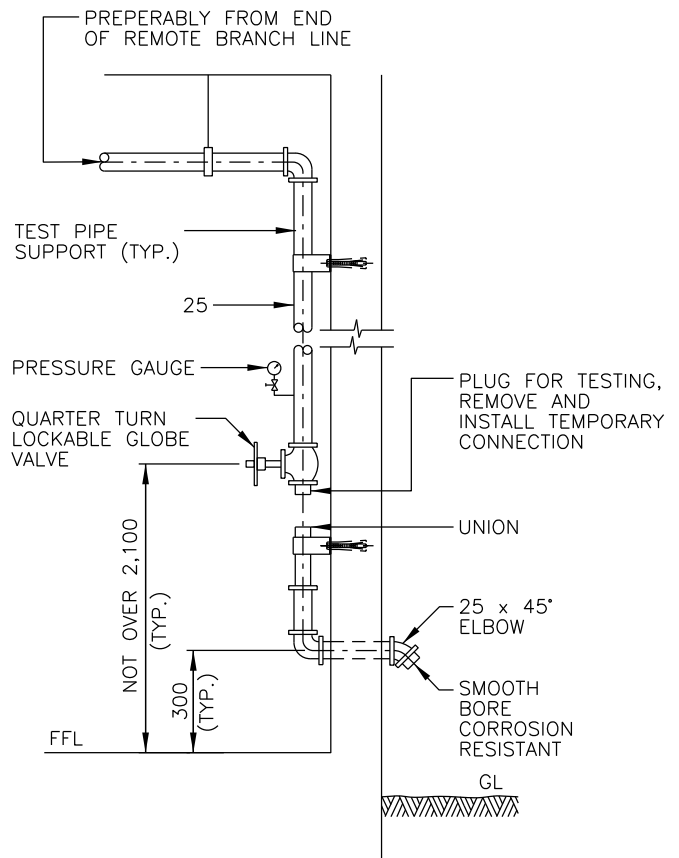
INSPECTION TEST CONNECTION

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	INSPECTOR'S TEST CONNECTION	211313.0010	M -203



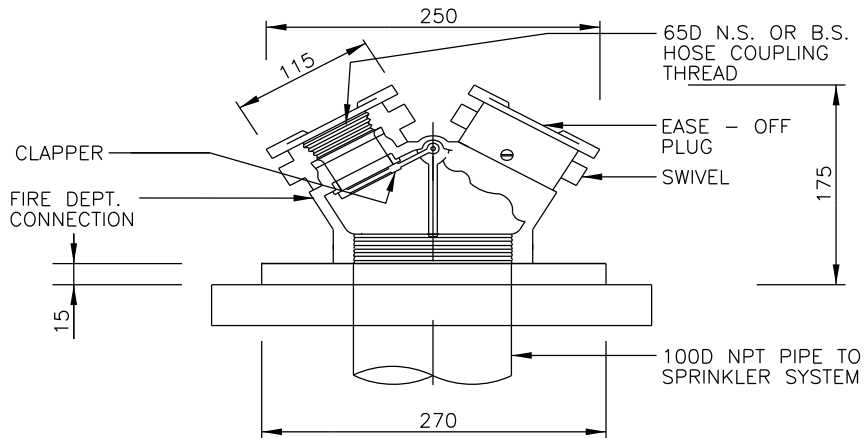
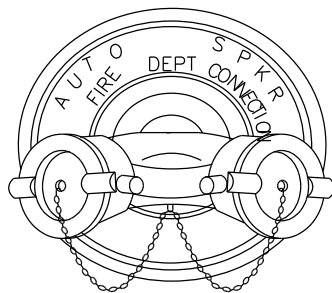
A WET PIPE SYSTEM




B DRY/PRE-ACTION SYSTEM

TEST PIPE CONNECTION DETAIL
NOT TO SCALE

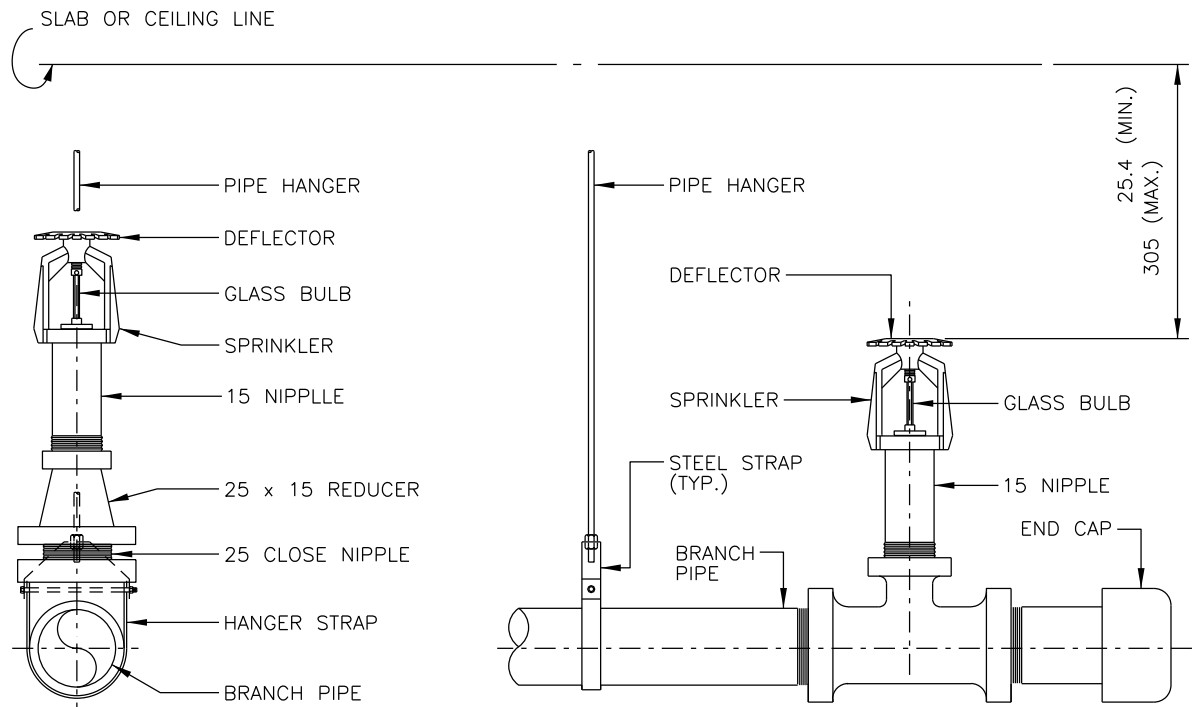
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	INSPECTOR'S TEST PIPE CONNECTION DETAIL	211313.0010	M -204



FIRE DEPT. SIAMESE CONNECTION
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	FIRE DEPARTMENT CONNECTION WITH PLUG AND CHAIN	211313.0010	M -205

REV DATE: NOV 2015



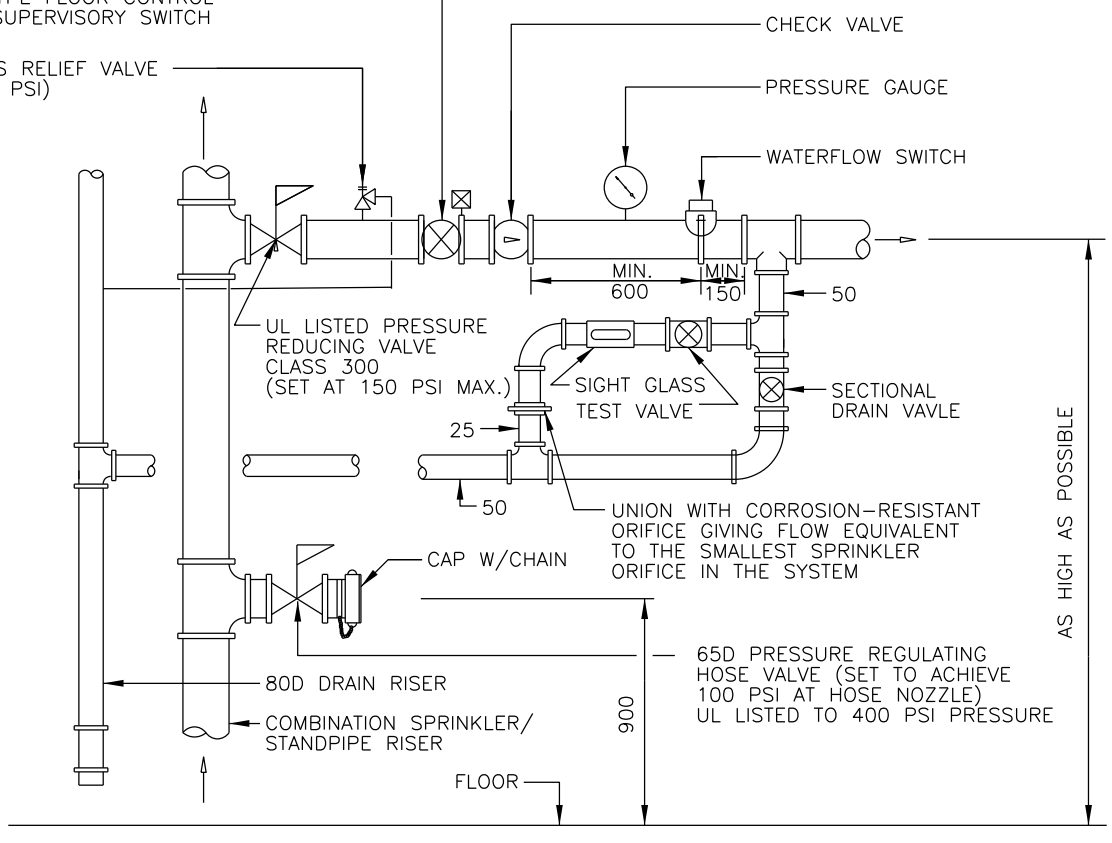
UPRIGHT TYPE
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL SPRINKLER INSTALLATION UPRIGHT	211313.0010	M -206

REV DATE: NOV 2015

INDICATING-TYPE FLOOR CONTROL VALVE WITH SUPERVISORY SWITCH

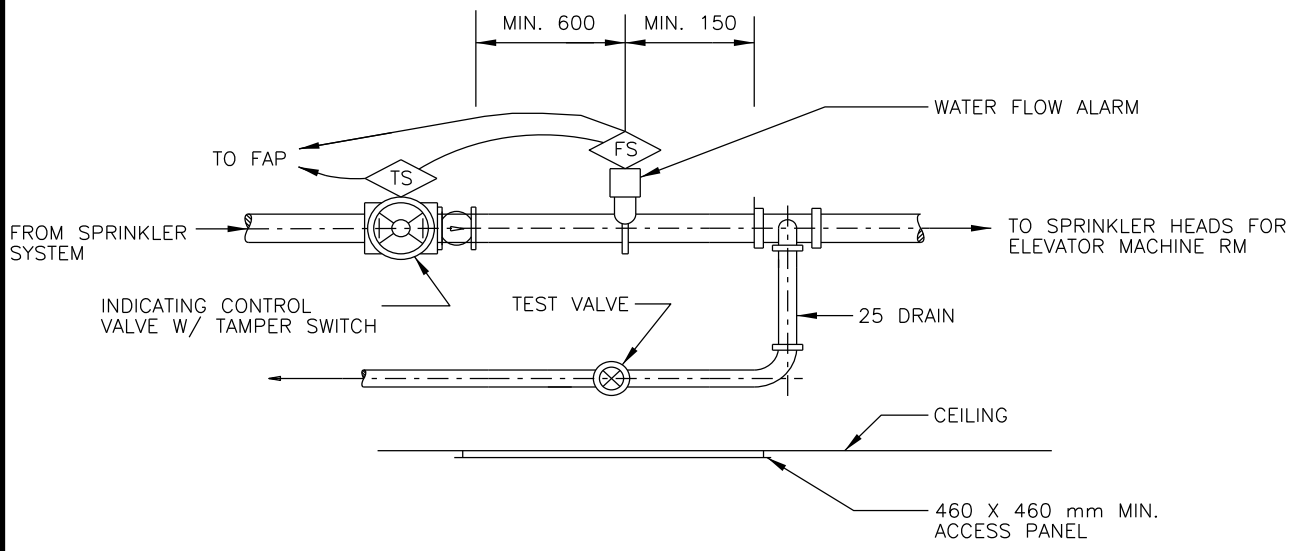
13mm PRESS RELIEF VALVE (SET AT 175 PSI)



TYPICAL FLOOR CONTROL VALVE
NOT TO SCALE

 <p>IMCOM</p>	<p>O&MA STANDARD DETAILS, KOREA</p>		<p>OMA SPEC</p>	<p>DWG NO.</p>
	<p>TITLE</p>	<p>SPRINKLER/STANDPIPE COMBINATION RISER</p>	<p>211313.0010</p>	<p>M -207</p>

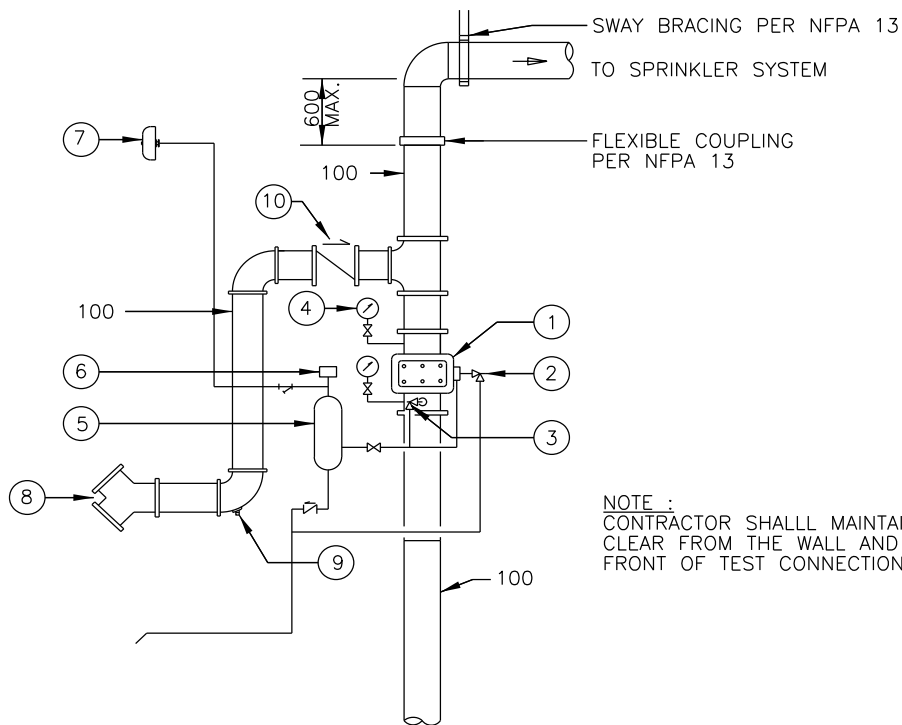
REV DATE: NOV 2015



- NOTE :
1. THE VALVE MUST BE ACCESSIBLE AND VISIBLE FROM THE FLOOR.
 2. CLEAR CEILING PANELS ARE REQUIRED IF THESE ARE INSTALLED ABOVE THE CEILING.

ELEVATOR MACHINE ROOM FLOW SWITCH ASSEMBLY
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	ELEVATOR MACHINE/CONTROL ROOM FLOW SWITH ASSEMBLY	211313.0010	M -208

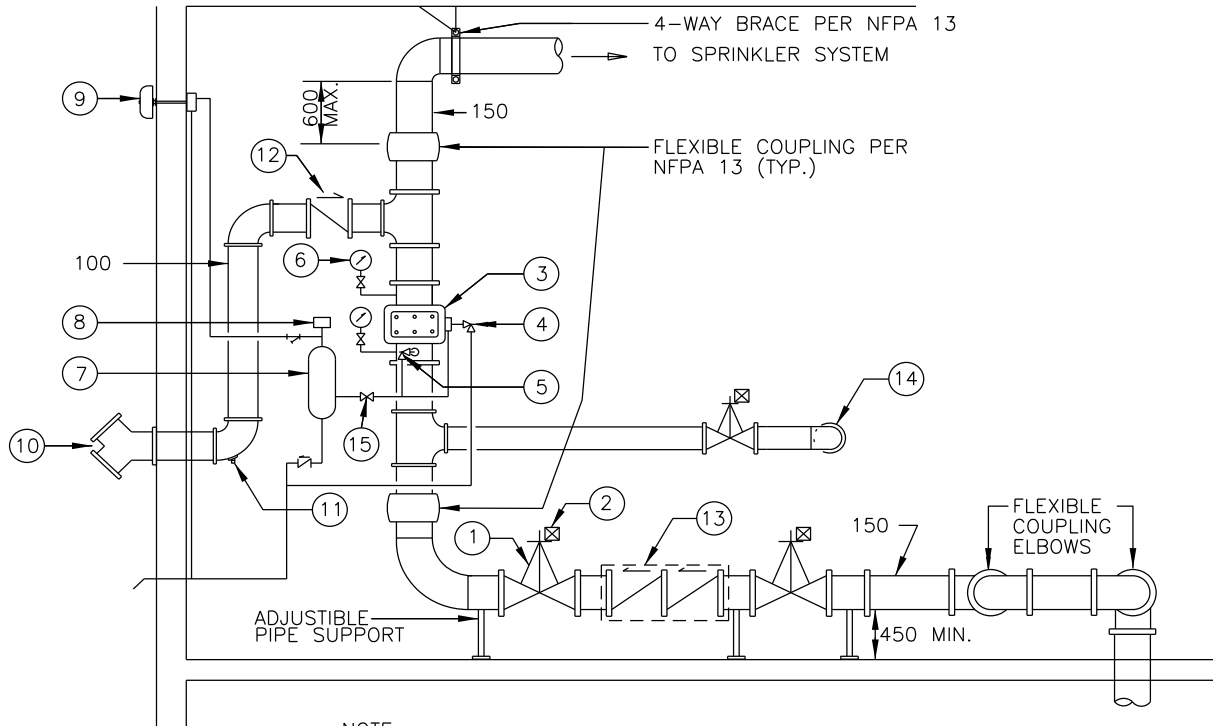


NOTE :
 CONTRACTOR SHALL MAINTAIN A MIN. OF 152 mm
 CLEAR FROM THE WALL AND 915 mm CLEAR IN
 FRONT OF TEST CONNECTION.

ITEM	DESCRIPTION	ITEM	DESCRIPTION
①	WET PIPE ALARM VALVE	⑦	WATER MOTOR ALARM
②	MAIN DRAIN (VALVE)	⑧	FIRE DEPARTMENT CONN.
③	ALARM TEST VALVE	⑨	BALL DRIP
④	WATER GAGE (2 EA)	⑩	CHECK VALVE
⑤	RETARDING CHAMBER		
⑥	PRESSURE SWITCH		

SPRINKLER MAIN RISER
 NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	WET-PIPE SPRINKLER RISER WITH FIRE DEPARTMENT CONNECTION	211313.0010	M -209



NOTE :
CONTRACTOR SHALL MAINTAIN MIN. CLEARANCE
DISTANCE OF 915 FOR ACCESS OF ALL COMPONENTS.

ITEM	DESCRIPTION	ITEM	DESCRIPTION
①	O. S. & Y. VALVE (3 EA)	⑨	WATER OPERATED ALARM
②	TAMPER SWITCH (3 EA)	⑩	FIRE DEPARTMENT CONN.
③	WET PIPE ALARM VALVE	⑪	AUTO BALL DRIP
④	MAIN DRAIN VALVE	⑫	CHECK VALVE
⑤	ALARM TEST VALVE	⑬	DOUBLE CHECK VALVE BACK-FLOW PREVENTER ASSEMBLY
⑥	PRESSURE GAGE (2 EA)	⑭	HOSE HEADER FOR BACKFLOW PREVENTER FLOW TEST
⑦	RETARDING CHAMBER	⑮	ALARM TEST SHUTOFF VALVE W/ TAMPER SWITCH
⑧	PRESSURE SWITCH		

SPRINKLER MAIN RISER

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

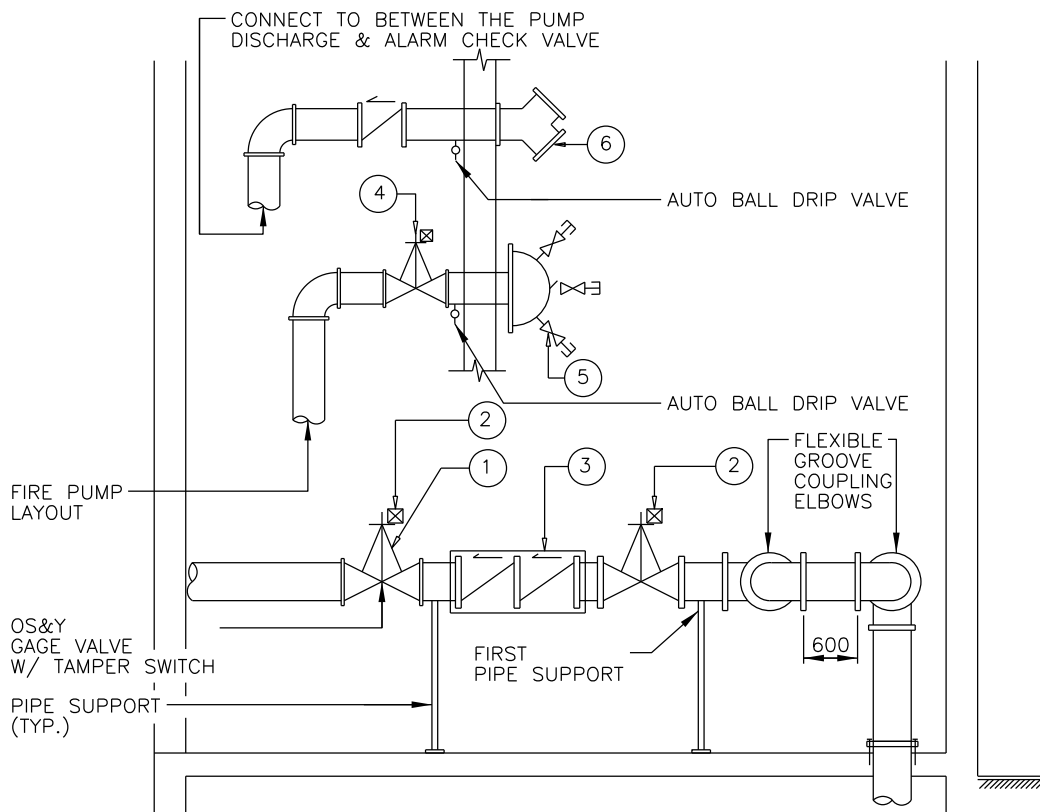
DWG NO.

TITLE

WET-PIPE SPRINKLER RISER
WITH BACKFLOW PREVENTION

211313.0010

M -210



ITEM	DESCRIPTION
①	OS & Y GATE VALVE
②	TAMPER SWITCH
③	BACKFLOW PREVENTER
④	TEST VALVE
⑤	TEST VALVE HEADER
⑥	FIRE DEPT CONNECTION

TEST VALVE SCHEDULE		
FLOW RATE (LPS)	HEADER SIZE (mm)	NUMBER & SIZE OF HOSE VALVE (mm)
0 - 31.53 (0 - 500 GPM)	100 (4")	2EA - 65 (2EA - 2-1/2")
31.53 - 47.32 (500 - 750 GPM)	150 (6")	3EA - 65 (3EA - 2-1/2")
47.32 - 63.08 (751 - 1,000 GPM)	150 (6")	4EA - 65 (4EA - 2-1/2")
63.08 - 94.62 (1,001 - 1,500 GPM)	200 (8")	6EA - 65 (6EA - 2-1/2")
94.62 - 126.2 (1,501 - 2,000 GPM)	200 (8")	6EA - 65 (6EA - 2-1/2")

SPRINKLER MAIN RISER

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

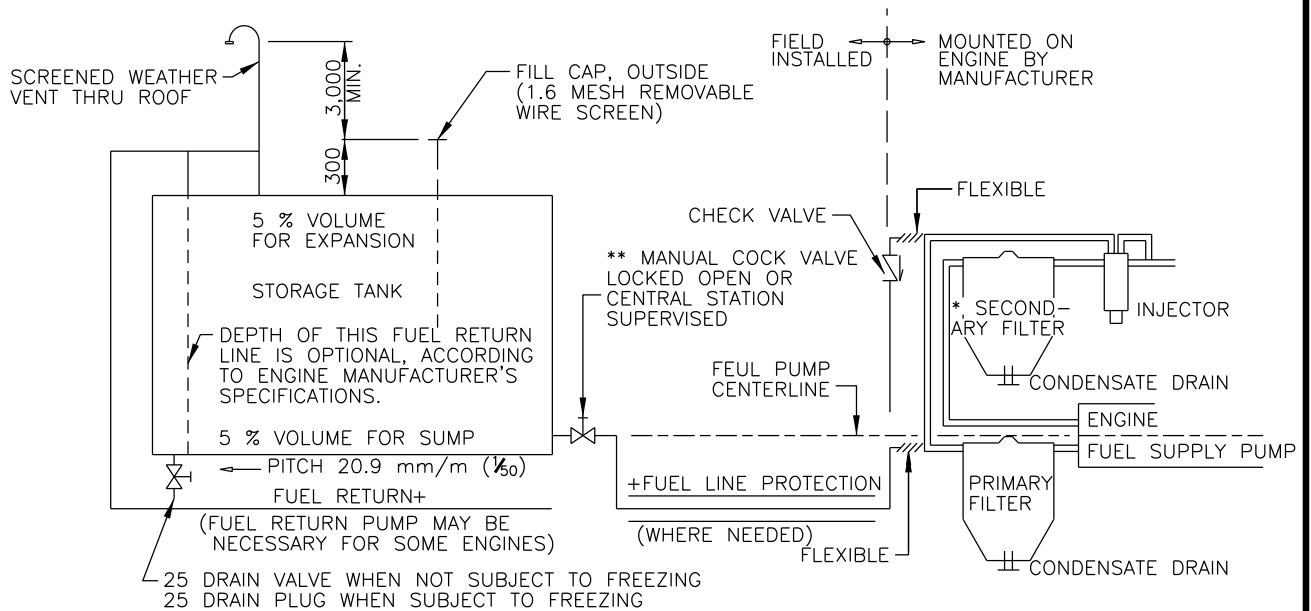
TITLE **BACKFLOW PREVENTER
WITH TEST VALVE SCHEDULE**

OMA SPEC

211313.0010

DWG NO.

M -211



- * SECONDARY FILTER BEHIND OR BEFORE ENGINE FUEL PUMP, ACCORDING TO ENGINE MANUFACTURER'S SPECIFICATIONS.
- ** EXCESS FUEL MAY BE RETURNED TO FUEL SUPPLY PUMP SUCTION, IF RECOMMENDED BY ENGINE MANUFACTURER.
- + SIZE OF FUEL PIPING, ACCORDING TO ENGINE MANUFACTURER'S SPECIFICATIONS.

NOTE :

1. FUEL SUPPLY AND ARRANGEMENT MUST COMPLY TO NFPA 20, NFPA 30, NFPA 31, NFPA 37, AND UFC 3-460-01.
2. PROVIDE SPILL CONTAINMENT EITHER WITH CURB, DOUBLE WALL TANK, OR ANY OTHER MEANS IAW NFPA 20, NFPA 30, AND UFC 3-460-01.
3. A FUEL LEVEL INDICATOR SHALL BE PROVIDED TO ACTIVATE AT THE TWO-THIRDS TANK LEVEL.
4. FILL AND VENT PIPE SHALL BE ROUTED TO OUTSIDE WHEN THE TANK IS LOCATED INSIDE AND INSTALLED PER APPLICABLE CODE MENTIONED ABOVE.

**FUEL SYSTEM FOR
DIESEL-ENGINE-DRIVEN FIRE PUMP SCHEMATIC**

NOT TO SCALE



IMCOM

O&MA STANDARD DETAILS, KOREA

TITLE

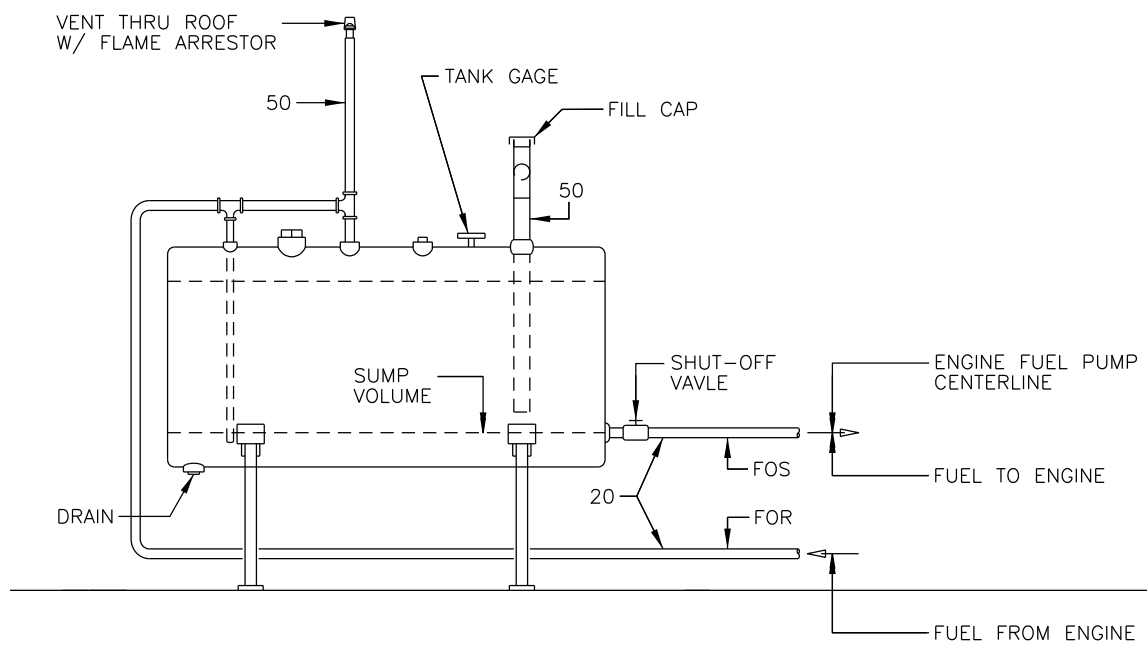
FUEL SYSTEM FOR DIESEL-ENGINE-DRIVEN FIRE PUMP

OMA SPEC

213000


DWG NO.

M -212

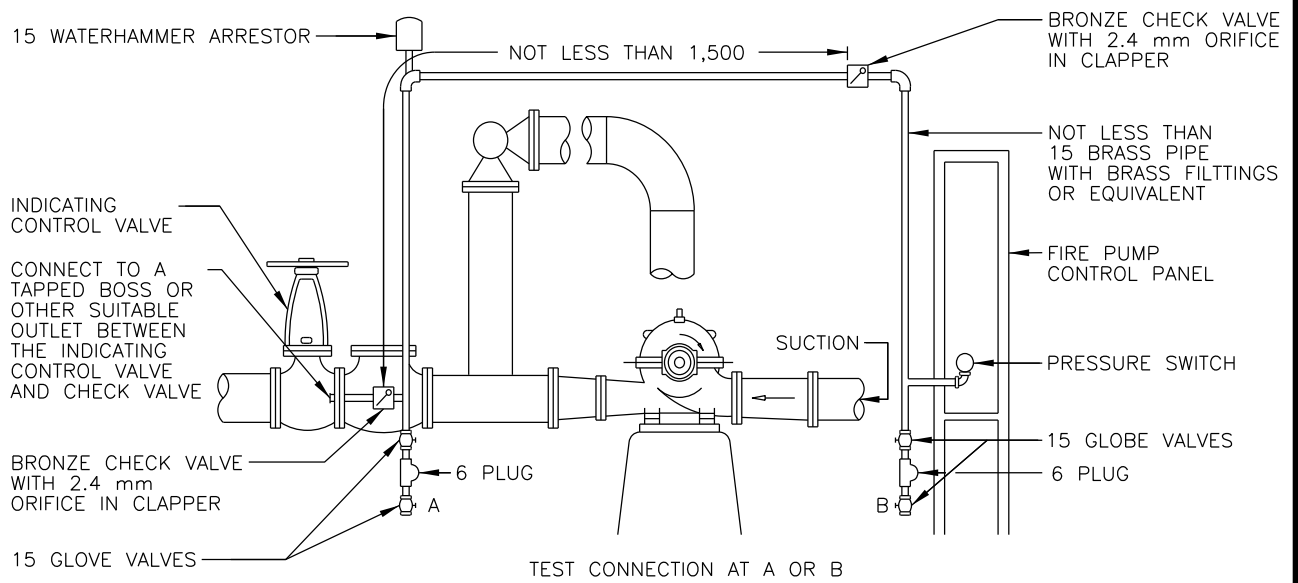


NOTE :
 FUEL TANK SHALL BE PROVIDED WITH THE DIESEL ENGINE AND
 THE CAPACITY SHOULD BE DETERMINED ACCORDING TO NFPA 20(FUEL TANK CAPACITY)

FUEL TANK DETAIL FOR ENGINE PUMP
 NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	FUEL TANK DETAIL FOR DIESEL ENGINE PUMP	213000	M -213

REV DATE: NOV 2015

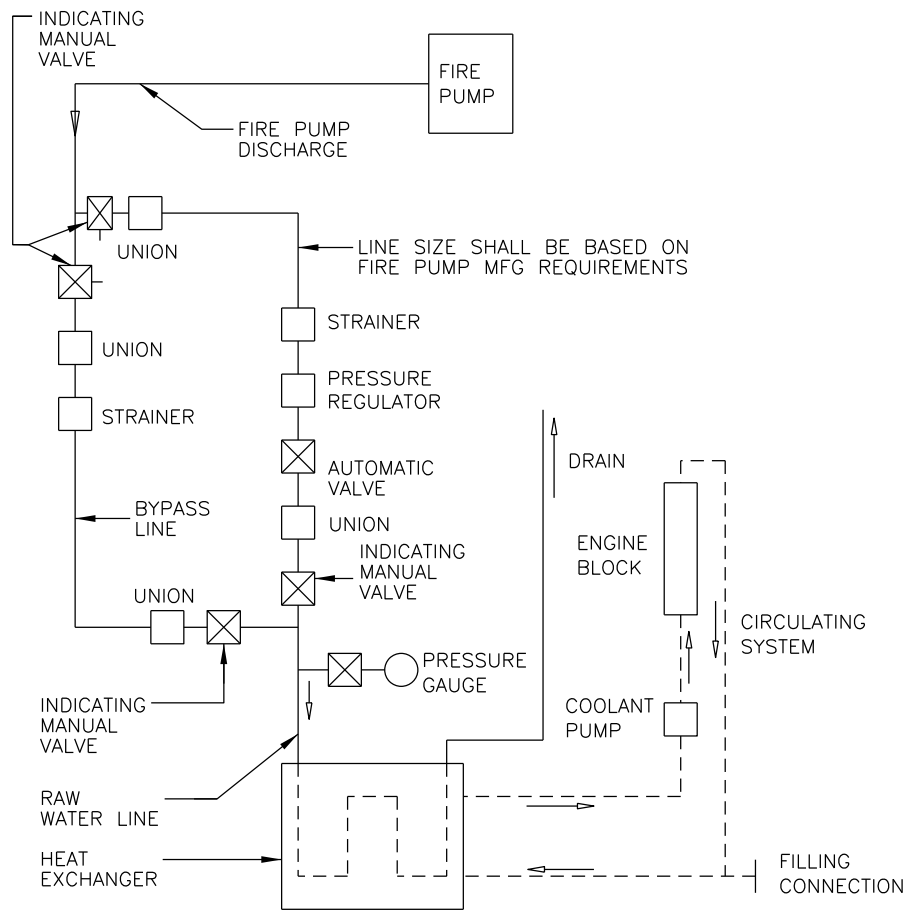


AUTOMATIC PRESSURE SWITCH SENSING LINE SCHEMATIC FOR FIRE & JOCKET PUMP

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	AUTOMATIC PRESSURE SWITCH SENSING LINE SCHEMATIC FOR FIRE & JOCKET PUMP	213000	M -214

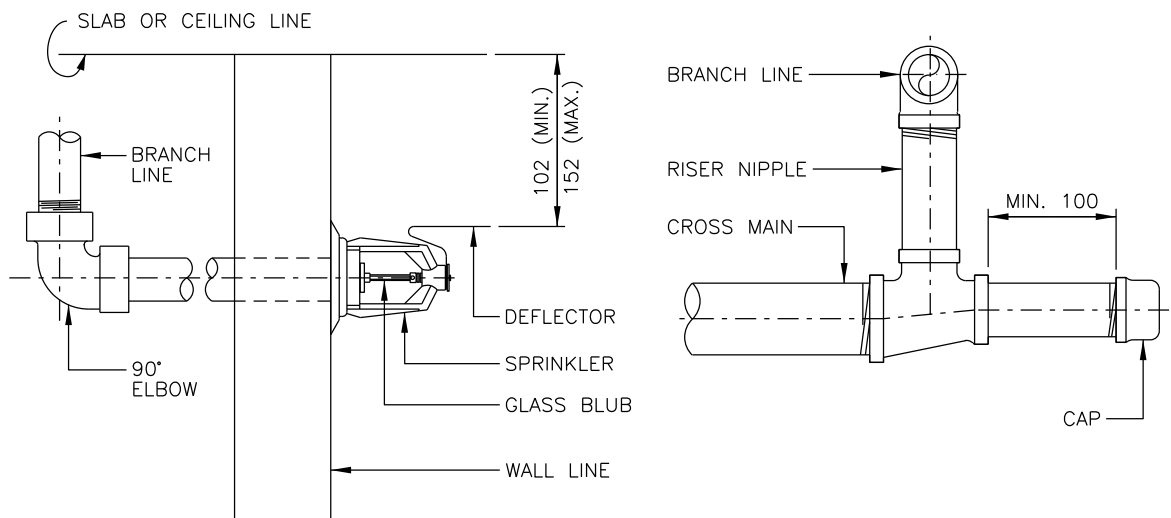
REV DATE: NOV 2015



**DIESEL FIRE PUMP ENGINE
 COOLING WATER LINE WITH BYPASS**
 NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	DIESEL FIRE PUMP ENGINE COOLING WATER LINE WITH BYPASS	213000	M -215

REV DATE: NOV 2015



A SIDEWALL

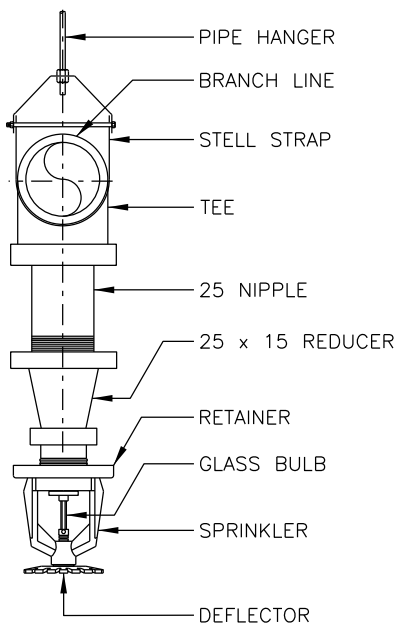
B FLUSHING CONNECTION

TYPICAL SPRINKLER INSTALLATION -
SIDEWALL TYPE & FLUSHING CONNECTION

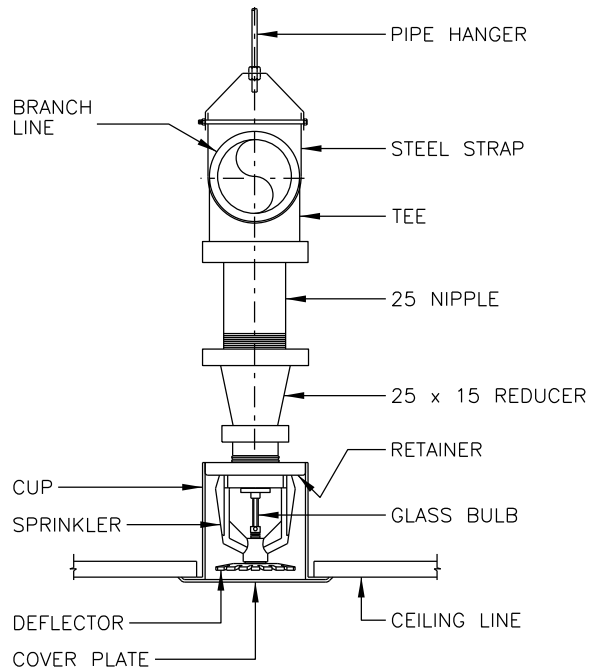
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL SPRINKLER INSTALLATION - SIDEWALL & FLUSHING CONNECTION	211313.0010	M -216

REV DATE: NOV 2015



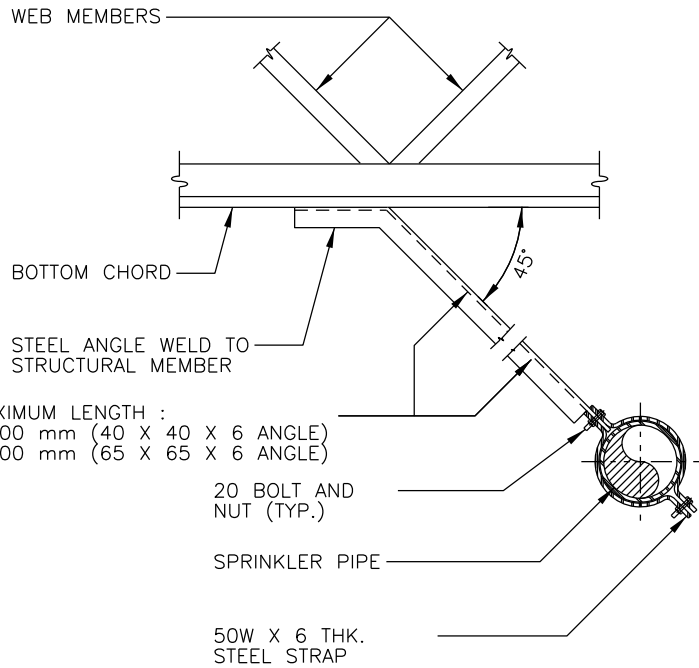
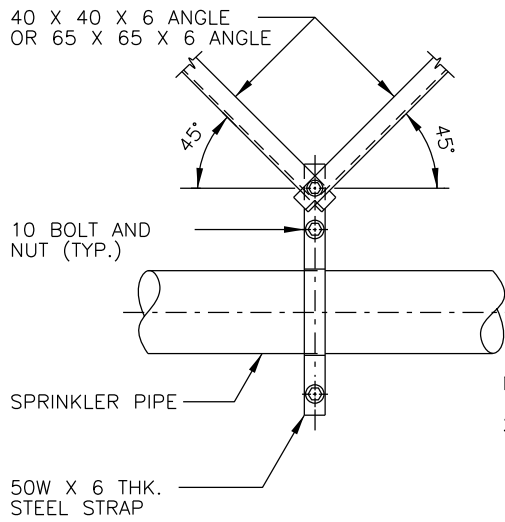
A PENDING TYPE



B CONCEALED TYPE

STANDARD INSTALLATION SPINKLERS
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	STANDARD INSTALLATION OF SPRINKLERS	211313.0010	M -217



NOTE :
THE CONTRACTOR SHALL PROVIDE SWAY BRACING AND PIPE SUPPORT CALCULATION TO ESTABLISH THE ADEQUACY OF SWAY BRACES AND PIPE SUPPORT MATERIALS, MAXIMUM LENGTH, SPACING, INSTALLATION ANGLES AND FASTENER SELECTION PER NFPA 13 AND TO BE NOTED IN THE SHOP DRAWINGS FOR REVIEW AND APPROVAL.

4-WAY SEISMIC BRACING

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

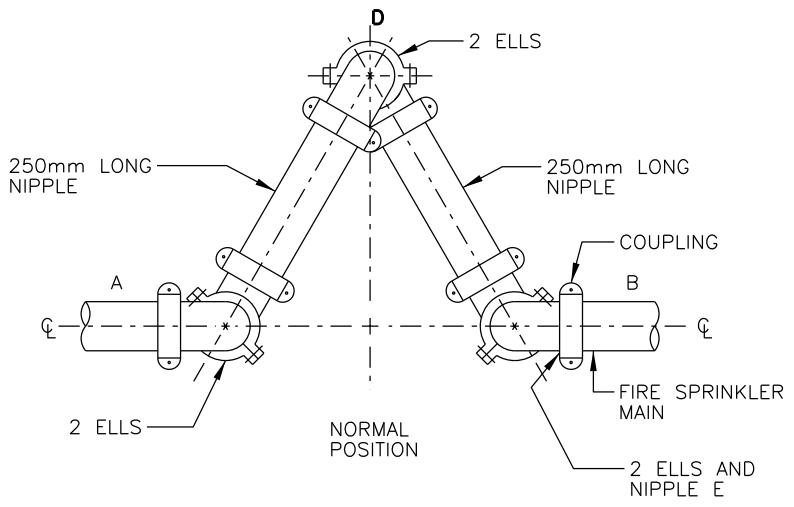
DWG NO.

TITLE

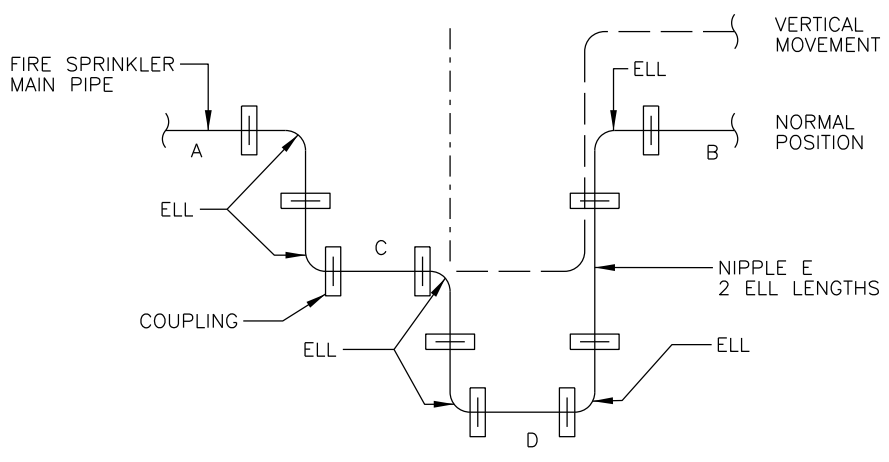
4-WAY SEISMIC BRACING

211313.0010

M -218




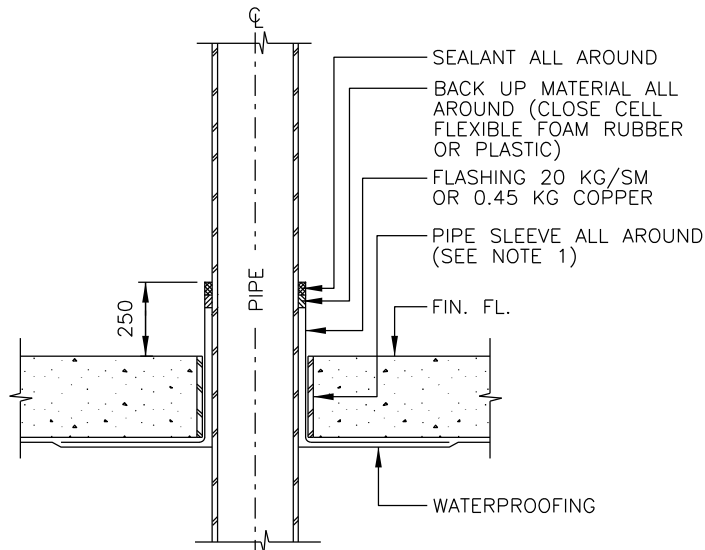
(A) PLAN



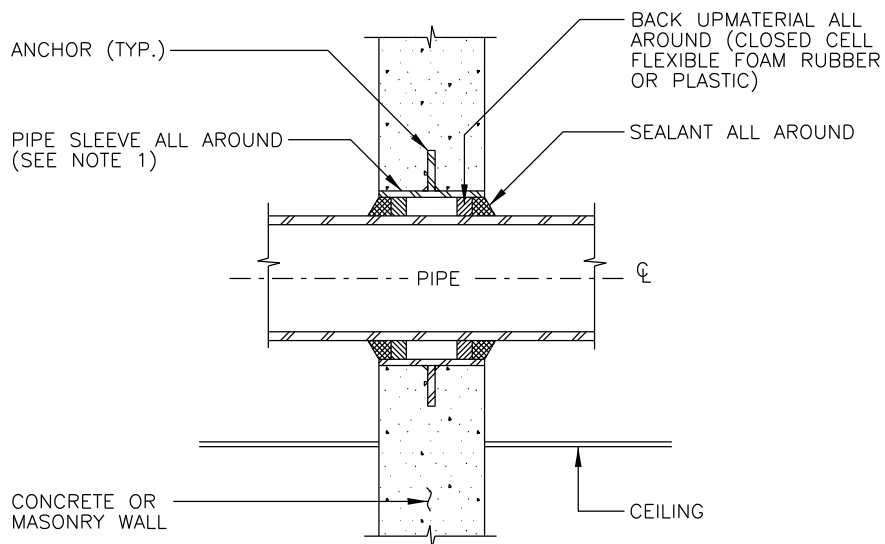
(B) ELEVATION

TYPICAL SEISMIC SEPARATION ASSEMBLY DETAIL
 (AT BLDG EXPANSION OR SEISMIC JOINTS)
 NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	SEISMIC SEPARATION ASSEMBLY	211313.0010	M -219



A PIPE SLEEVE - THRU FLOOR W/ WATERPROOFING



B PIPE SLEEVE - THRU INTERIOR WALL

NOTE :

- PER NFPA 13-2013. 9.3.4.3 WHERE CLEARANCE IS PROVIDED BY A PIPE SLEEVE, A NOMINAL DIAMETER 50 LARGER THAN THE NOMINAL DIAMETER OF THE PIPE SHALL BE ACCEPTABLE FOR PIPE SIZE 25 THROUGH 90, AND THE CLEARANCE PROVIDED BY A PIPE SLEEVE OF NOMINAL DIAMETER 100 LARGER THAN THE NOMINAL DIAMETER OF THE PIPE SHALL BE ACCEPTABLE FOR PIPE SIZES 100 AND LARGER.

PIPE PENETRATION THROUGH FLOOR AND INTERIOR WALL

NOT TO SCALE



IMCOM

O&MA STANDARD DETAILS, KOREA

TITLE

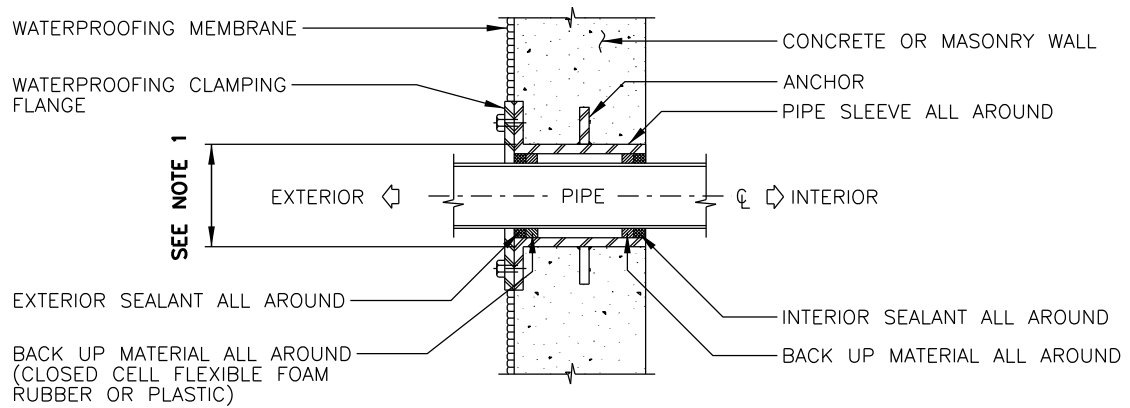
PIPE PENETRATION THROUGH FLOOR AND INTERIOR WALL

OMA SPEC

211313.0010

DWG NO.

M -220



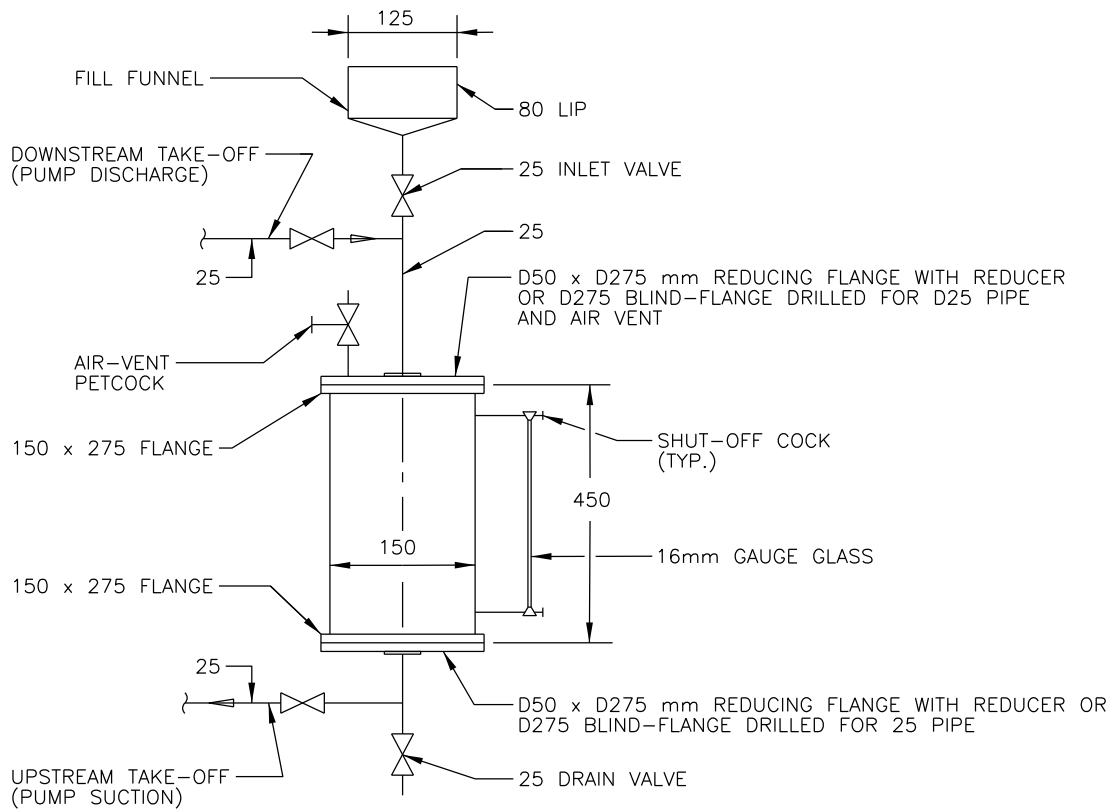
NOTE :

1. PER NFPA 13-2013. 9.3.4.3 WHERE CLEARANCE IS PROVIDED BY A PIPE SLEEVE, A NOMINAL DIAMETER 50 LARGER THAN THE NOMINAL DIAMETER OF THE PIPE SHALL BE ACCEPTABLE FOR PIPE SIZE 25 THROUGH 90, AND THE CLEARANCE PROVIDED BY A PIPE SLEEVE OF NOMINAL DIAMETER 100 LARGER THAN THE NOMINAL DIAMETER OF THE PIPE SHALL BE ACCEPTABLE FOR PIPE SIZES 100 AND LARGER.

PIPE PENETRATION THROUGH FOOTING

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PIPE PENETRATION THROUGH FOOTING	211313.0010	M -221



NOTE :
 PIPING AND FEEDER SHALL BE INSULATED AS SPECIFIED FOR RESPECTIVE
 PIPING SERVICE

CHEMICAL FEEDER DETAIL

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

DWG NO.

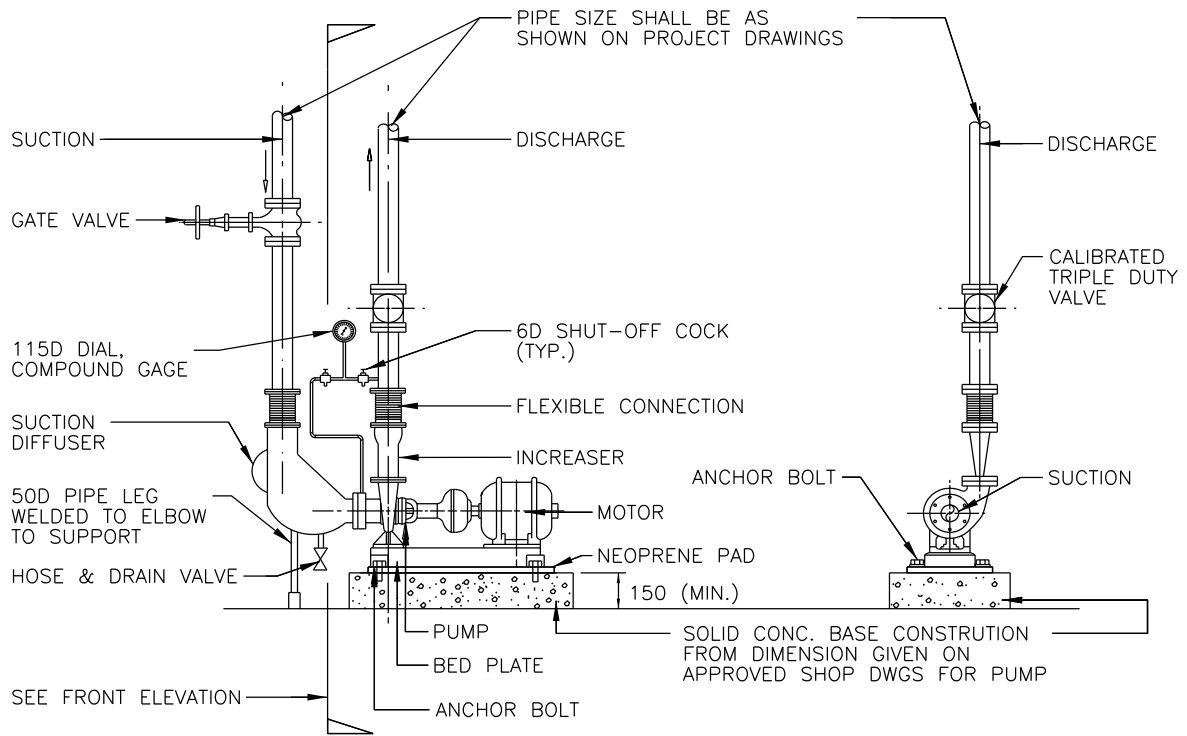
TITLE

CHEMICAL FEEDER DETAIL

236426

M - 301

REV DATE: NOV 2015



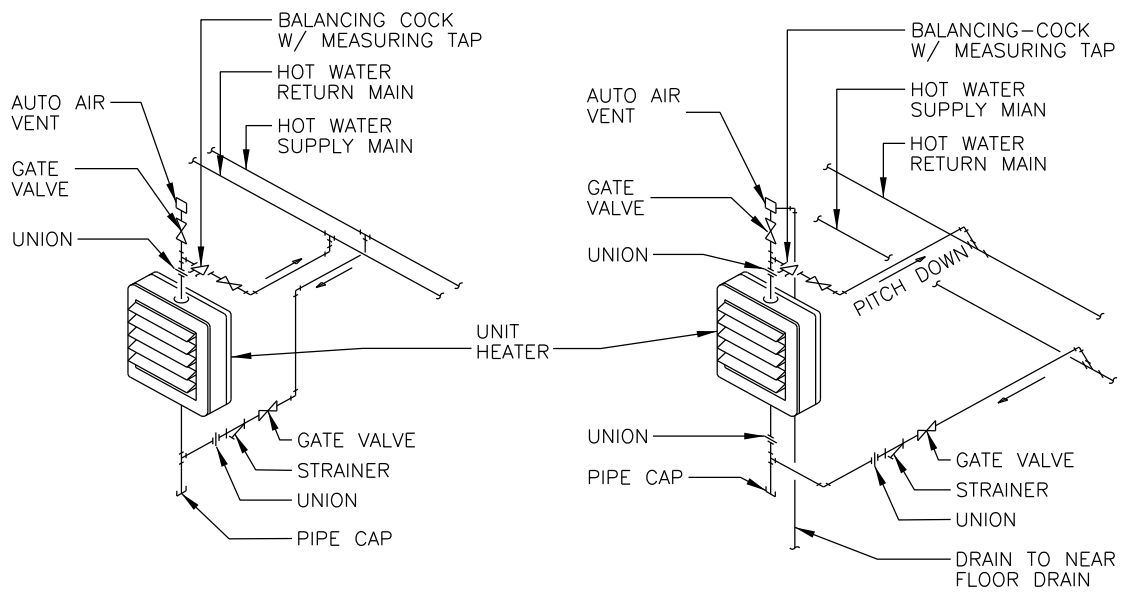
A SIDE ELEVATION

B FRONT ELEVATION

BASE MOUNTED WATER CIRC. PUMP

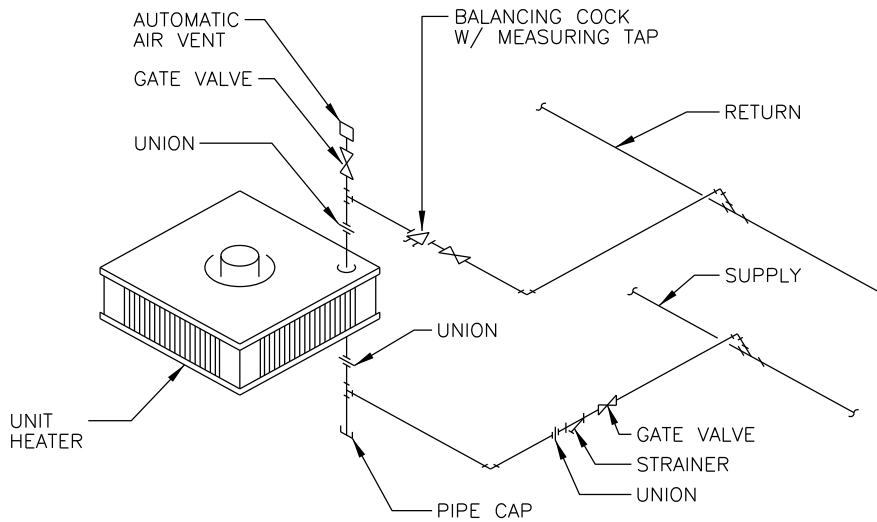
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	BASE MOUNTED WATER CIRC. PUMP	220000	M -302



A TYPE-1

B TYPE-2

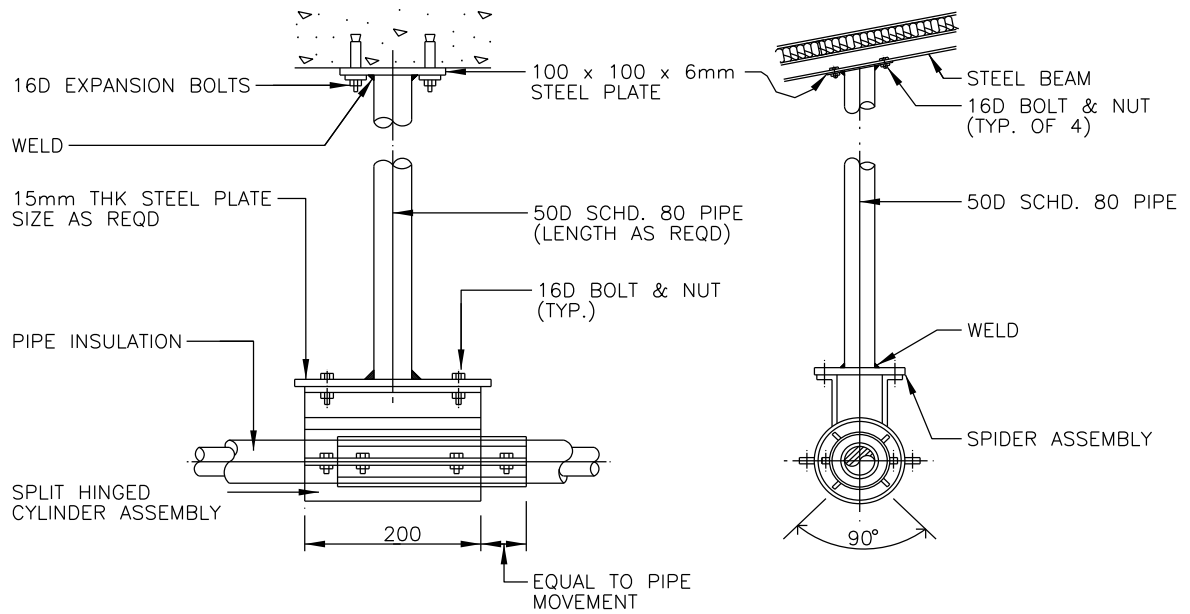


C TYPE-3

HOT WATER PIPING TO UNIT HEATER

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	HOT WATER PIPING TO UNIT HEATER	235200	M-303



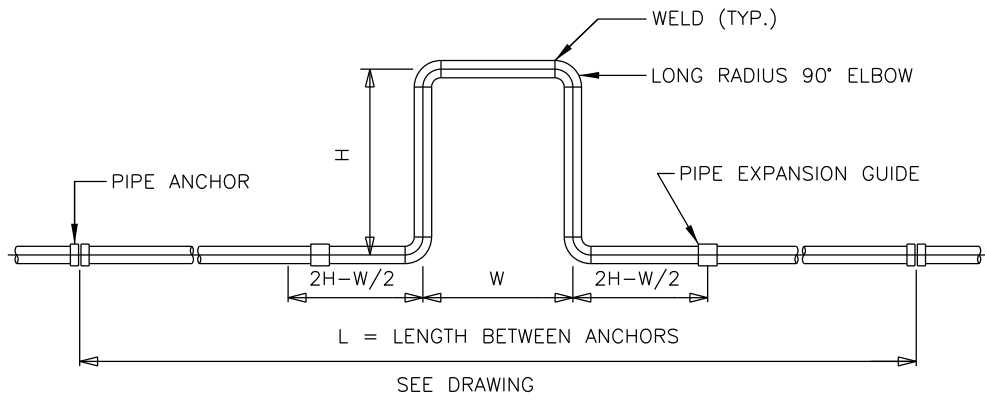
NOTE :
 CONNECTION TO CONCRETE FLOOR W/CONCRETE ANCHORS OR TO ROOF OR
 TO WALL STRUCTURAL MEMBER FOR TOP FLOOR

PIPE GUIDE SUPPORT

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PIPE GUIDE SUPPORT	220000	M -304

REV DATE: NOV 2015



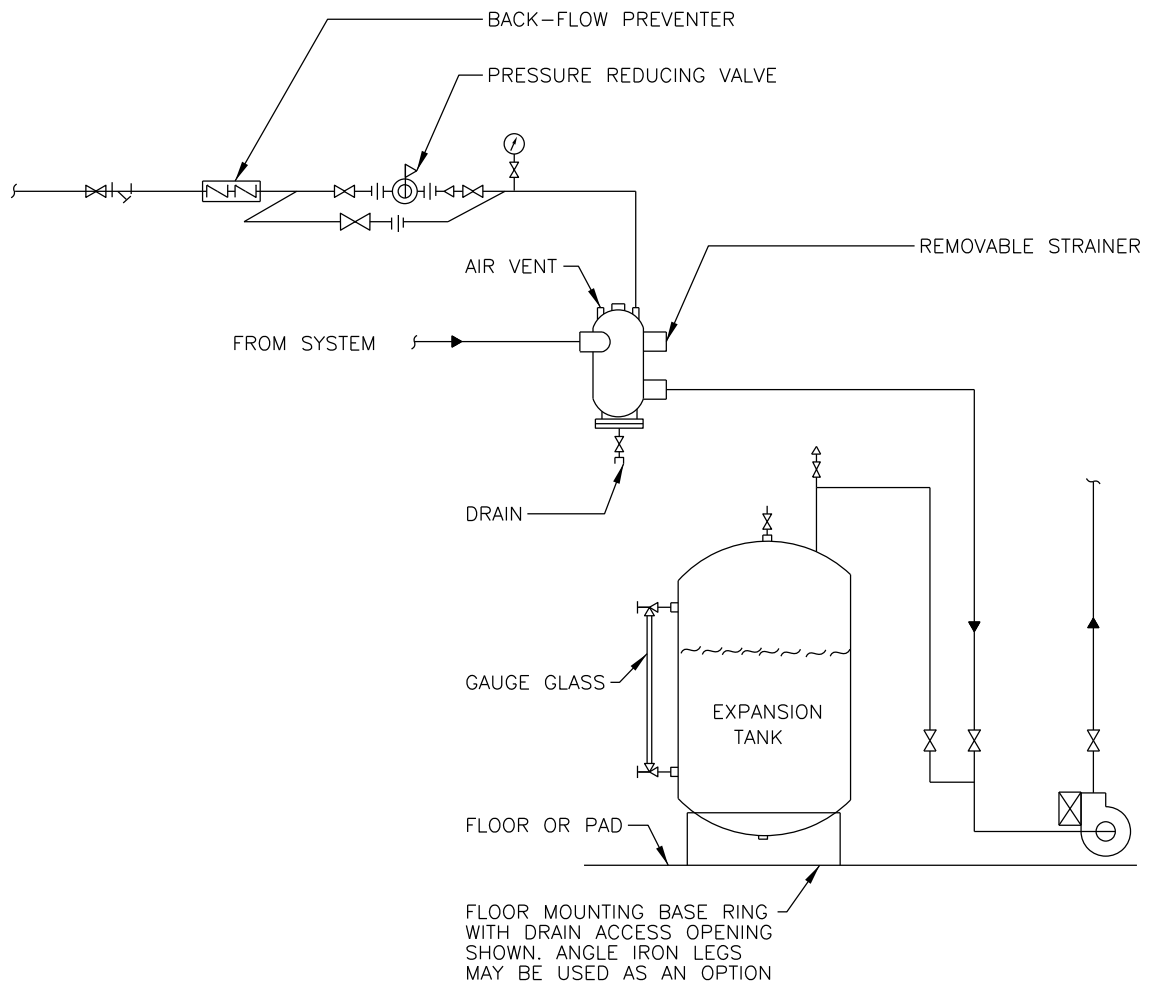
EXPANSION LOOP SCHEDULE (UNIT : MM)

PIPE SIZE	DIMENSIONS		PIPE SIZE	DIMENSIONS	
	W	H		W	H
25	550	1000	80	900	1800
32	600	1200	100	1000	2000
40	700	1300	150	1200	2400
50	800	1600	200	1300	2600
65	800	1600			

TABLE ABOVE IS BASED ON 93°C AND 1,035kPa(150 PSI)
 MAX. PER 30M FOR STEEL PIPE (A-53, GRADE A)

EXPANSION LOOP
 NOT TO SCALE

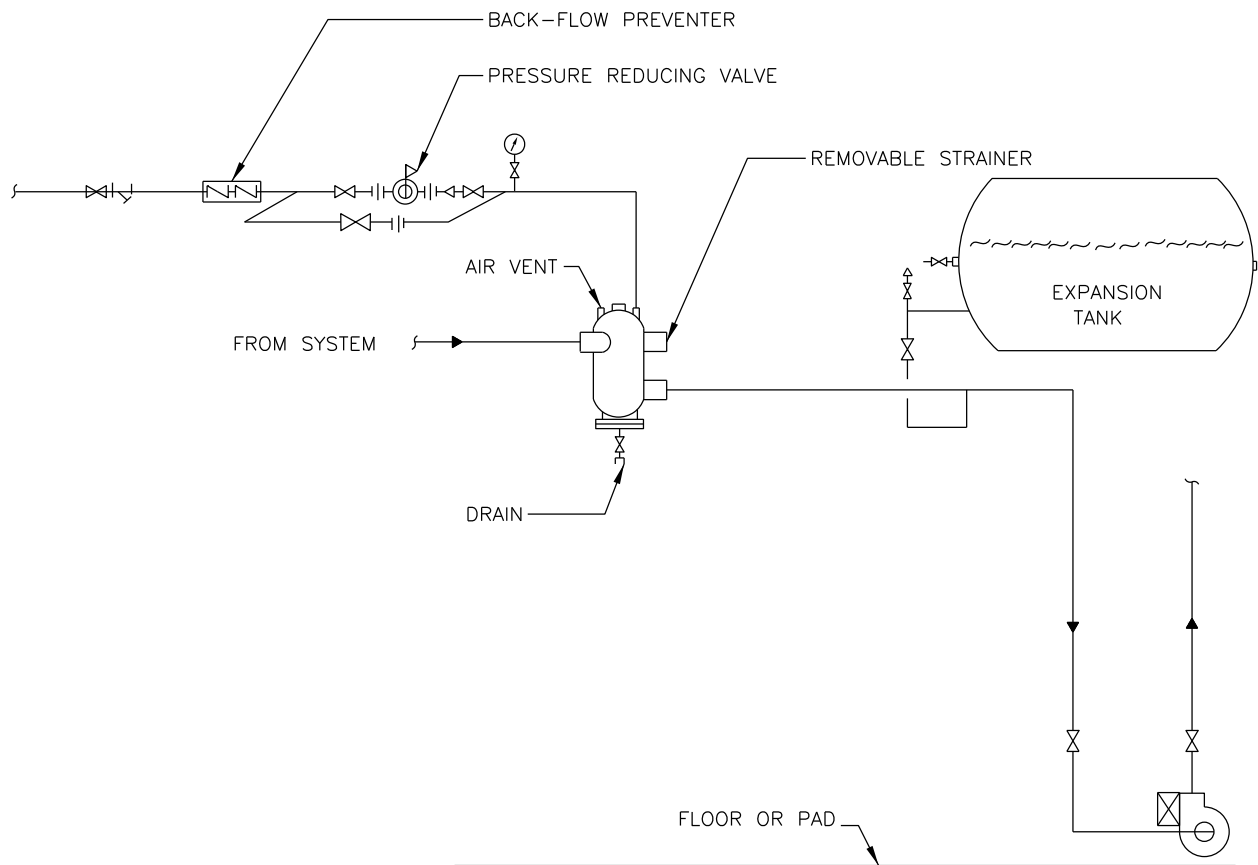
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	EXPANSION LOOP DETAIL	220000	M -305



**EXPANSION TANK & AIR SEPARATOR PIPING DETAIL
(VERTICAL TYPE)**

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	EXPANSION TANK & AIR SEPARATOR PIPING DETAIL (VERTICAL TYPE)	220000	M -306

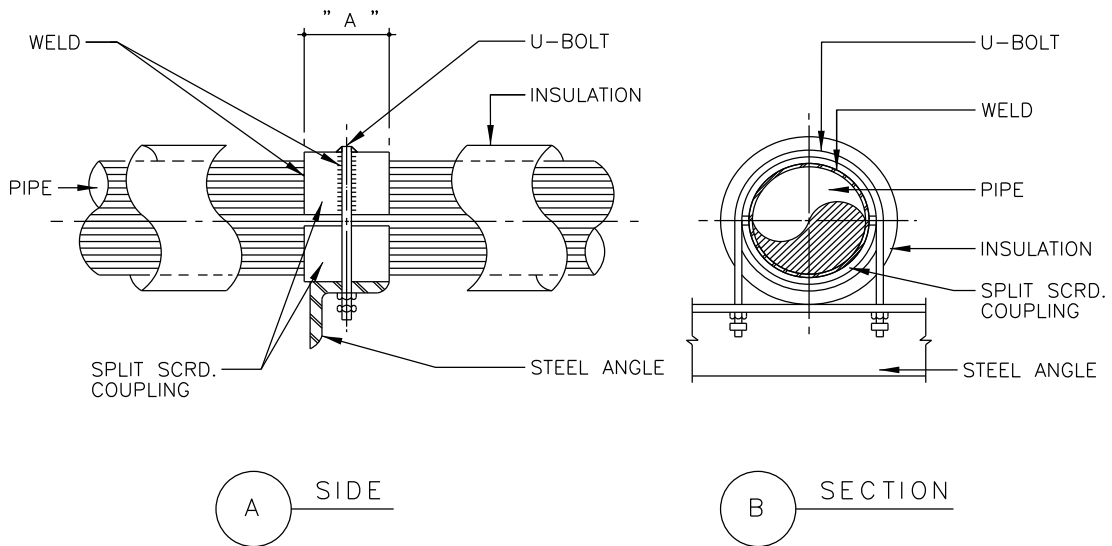


**EXPANSION TANK & AIR SEPARATOR PIPING DETAIL
(HORIZONTAL TYPE)**

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	EXPANSION TANK & AIR SEPARATOR PIPING DETAIL (HORIZONTAL TYPE)	220000	M -307

REV DATE: NOV 2015



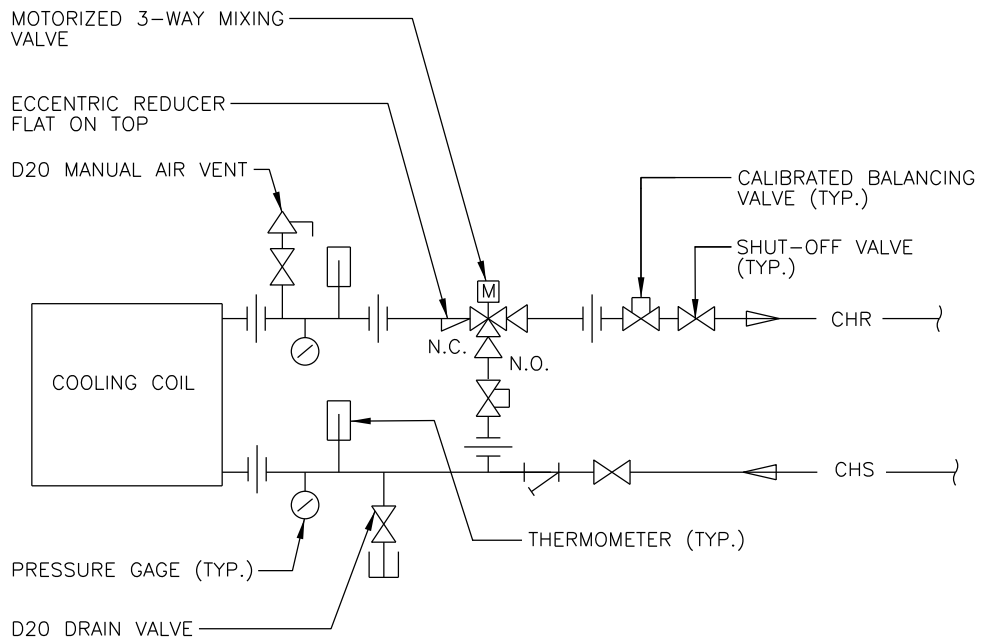
PIPE ANCHOR SCHEDULE (UNIT: MM)							
PIPE	U-BOLT	ANGLE SIZE			" A "		
32D	10	50	X	50	X	6	50
40D	10	50	X	50	X	6	50
50D	15	65	X	65	X	6	60
65D	15	65	X	65	X	10	80
80D	16	65	X	65	X	10	80
100D	16	80	X	80	X	10	100

NOTE :
INSULATE & VAPOR SEAL ANCHORS EQUAL TO THAT SPECIFIES FOR THE PIPING

PIPE ANCHOR

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PIPE ANCHOR	220000	M - 308

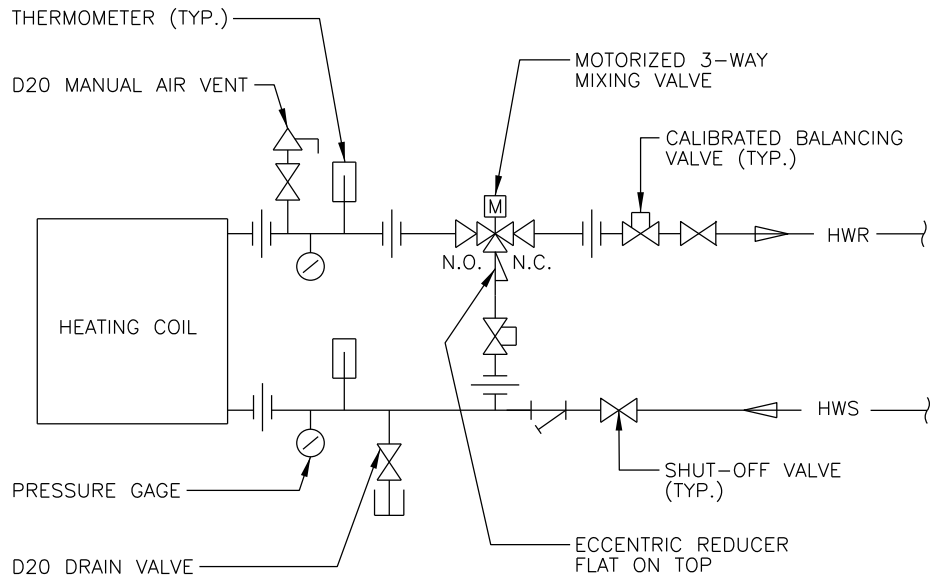


NOTE :
ARRANGE PIPING TO PERMIT COIL REMOVAL.

CHILLED WATER COIL PIPING DIAGRAM

NOT TO SCALE


 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CHILLED WATER COIL PIPING DIAGRAM	230000	M - 309

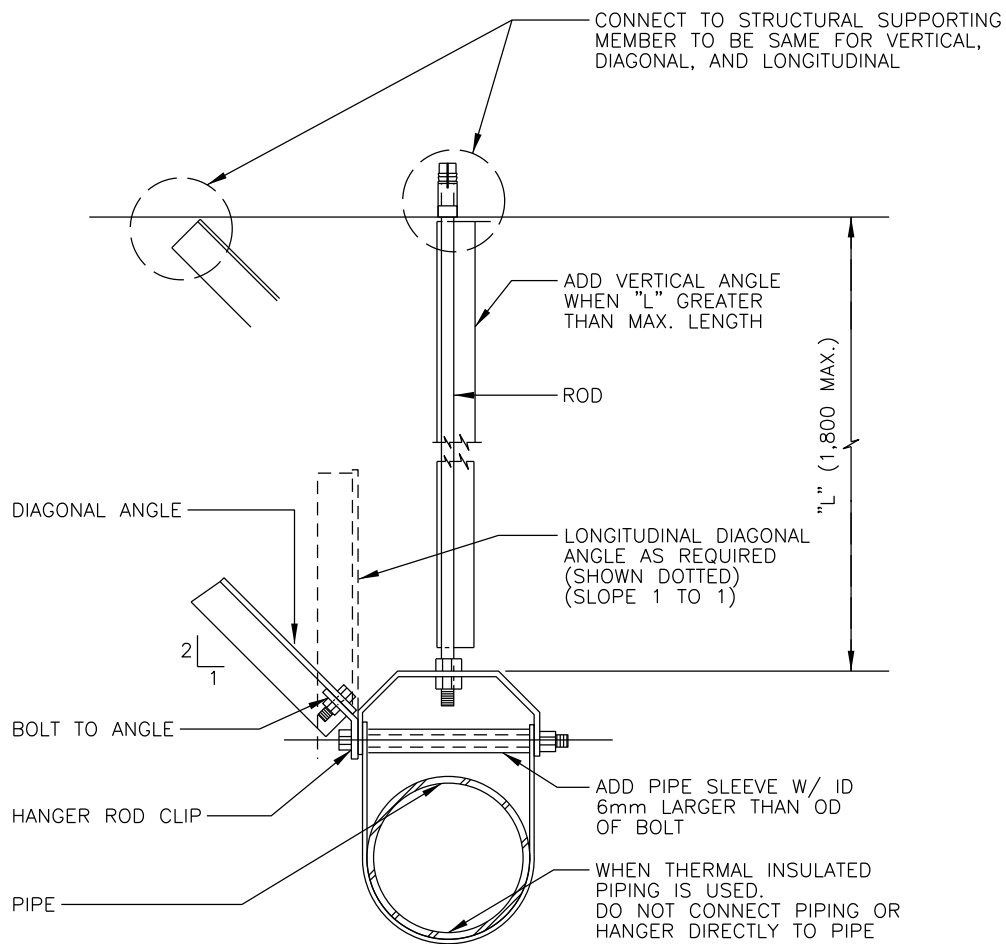


NOTE :
ARRANGE PIPING TO PERMIT COIL REMOVAL.

HOT WATER COIL PIPING DIAGRAM

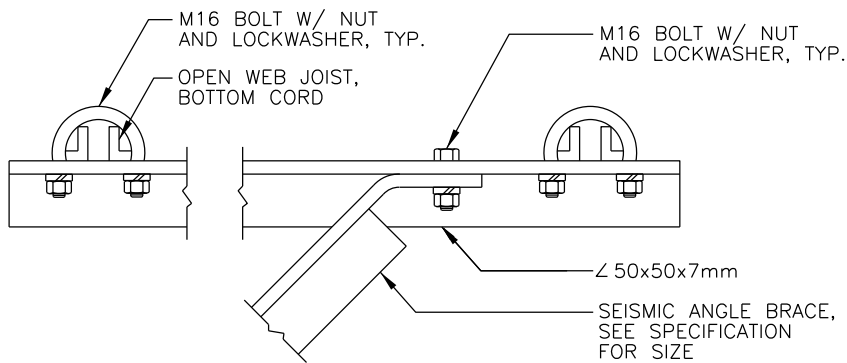
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	HOT WATER COIL PIPING DIAGRAM	230000	M -310

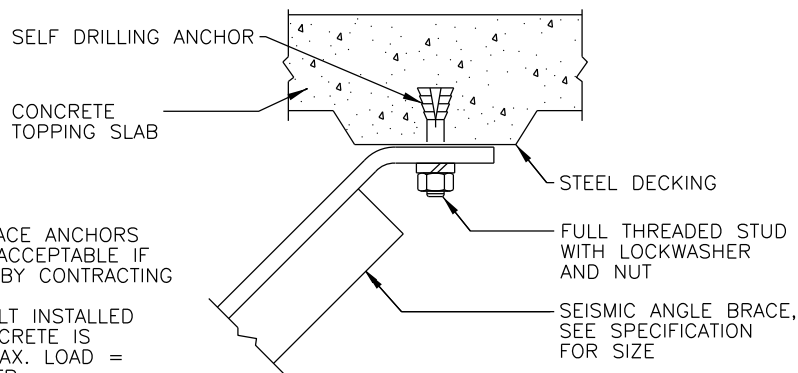


TYPICAL SEISMIC PIPING BRACING
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL SEISMIC PIPE BRACING	220000	M -311



A SEISMIC BRACE ATTACHMENT FROM JOIST



NOTES:

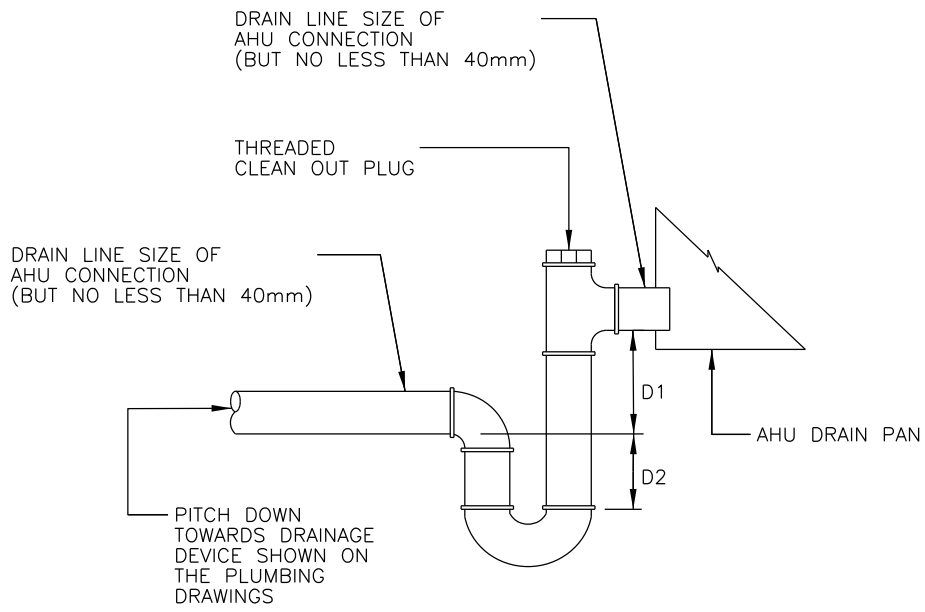
1. CAST IN PLACE ANCHORS SHALL BE ACCEPTABLE IF APPROVED BY CONTRACTING OFFICER.
2. ANCHOR BOLT INSTALLED AFTER CONCRETE IS Poured. MAX. LOAD = 50% OF MFR. RECOMMENDED RATING. MIN. NET LOAD RATING = 56.7 KG EACH.

B SEISMIC BRACE FROM METAL DECK W/ CONCRETE SLAB

SEISMIC ANGLE BRACING DETAILS

NOT TO SCALE

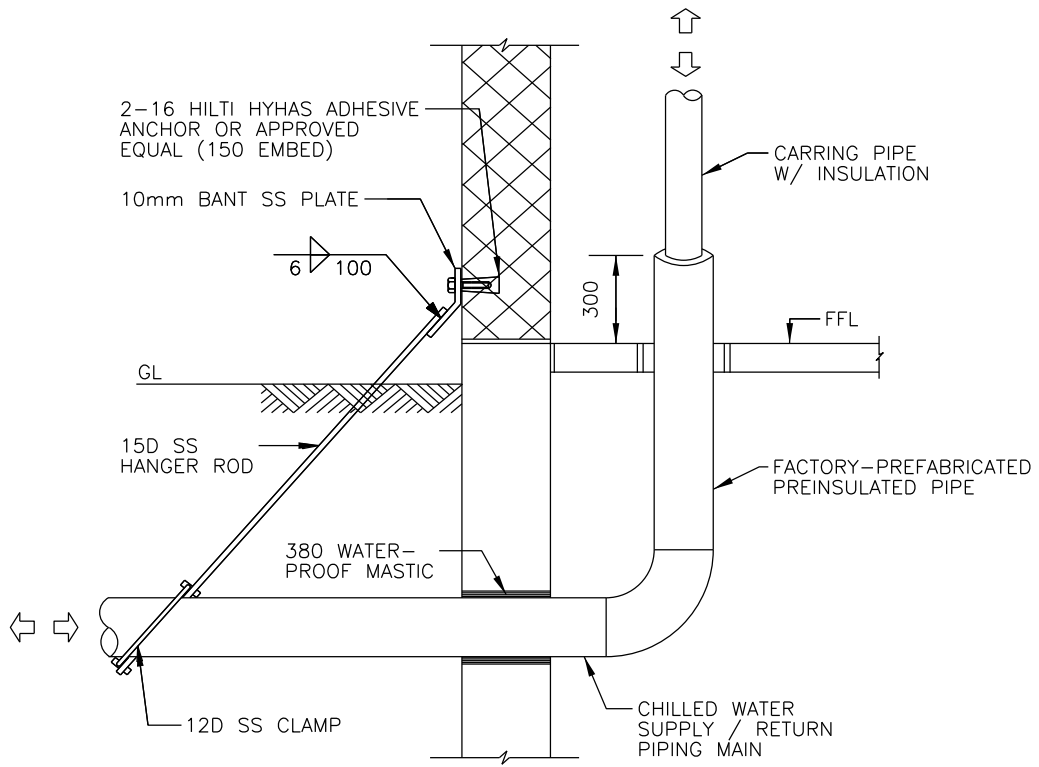
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	SEISMIC ANGLE BRACING DETAILS	220000	M -312



D1 = UNIT FAN OPERATING NEGATIVE PRESSURE PLUS 50mm.
 D2 = EQUAL TO "D1".

TYPICAL AHU CONDENSATE DRAIN DETAIL
 NOT TO SCALE

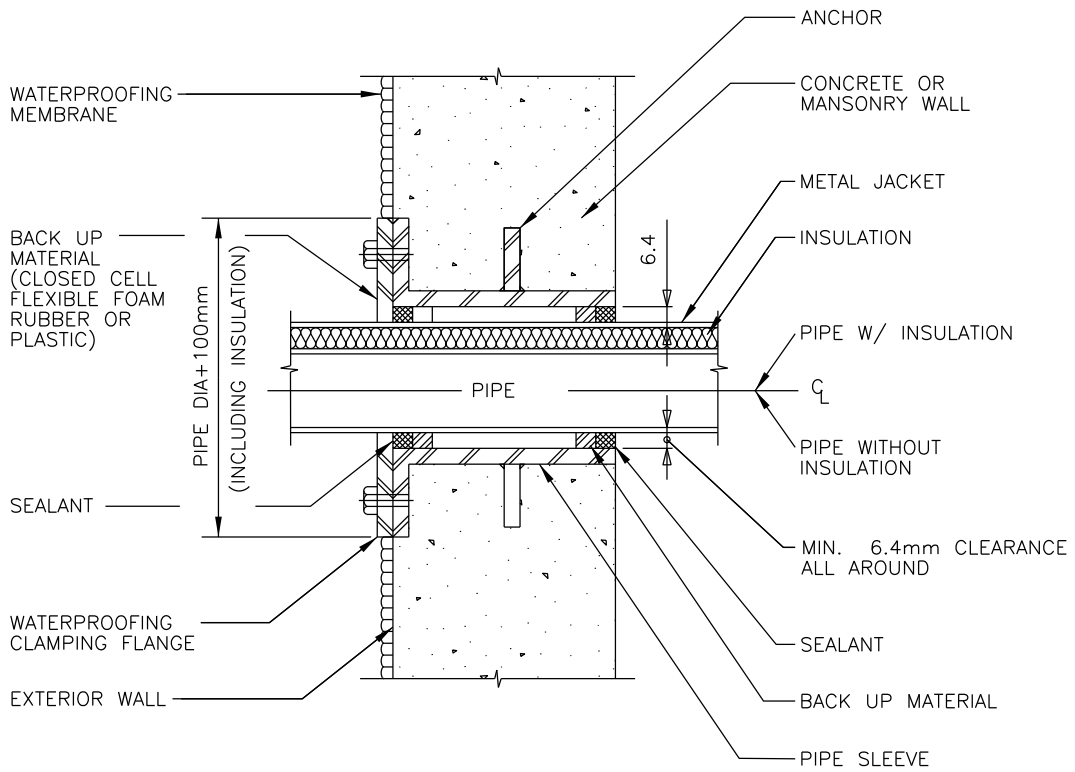
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL AHU CONDENSATE DRAIN DETAIL	230000	M -313



CHILLED WATER SUPPLY / RETURN MAIN
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CHILLED WATER SUPPLY / RETURN MAIN	236426	M -314

REV DATE: NOV 2015

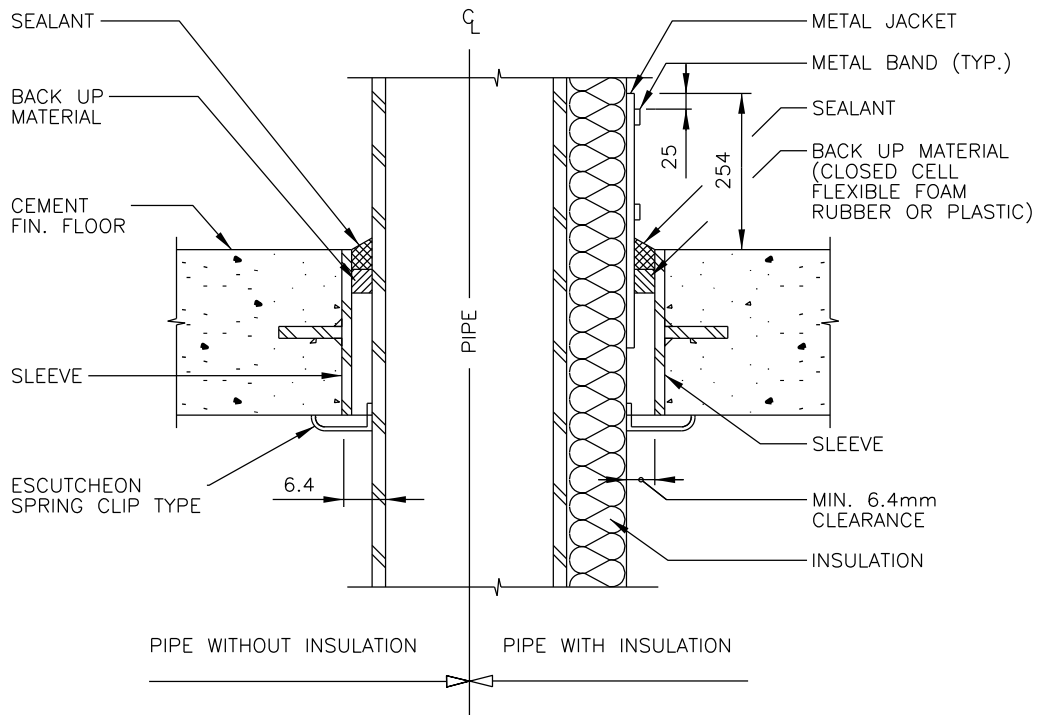


PIPE SLEEVE-THRU FOOTING

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PIPE SLEEVE-THRU FOOTING	220000	M -315

REV DATE: NOV 2015



NOTE :

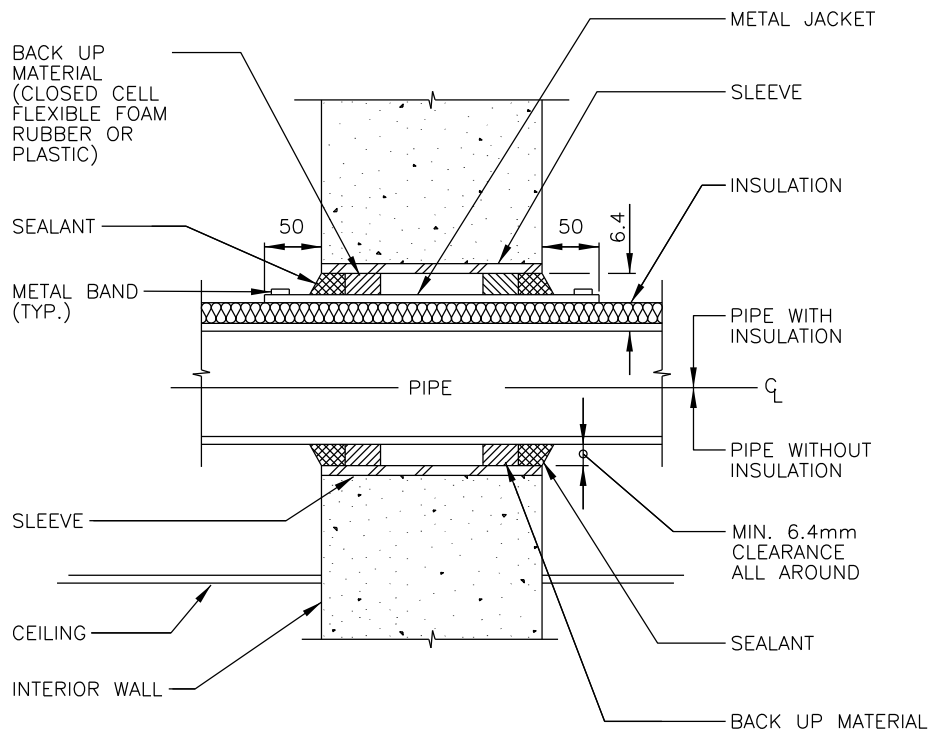
1. ESCUTCHEONS SHALL BE PROVIDED AT ALL FINISHED SURFACES WHERE EXPOSED PIPING, BARE OR INSULATED PASSES THROUGH FLOORS OR CEILINGS, EXCEPT IN BOILER, UTILITY OR EQUIPMENT ROOMS.
2. FIRESTOPPING SHALL BE IN ACCORDANCE WITH THE FIRESTOPPING MFG LISTED INSTALLATION INSTRUCTIONS.

PIPE SLEEVE-THRU FLOOR

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PIPE SLEEVE-THRU FLOOR	220000	M -316

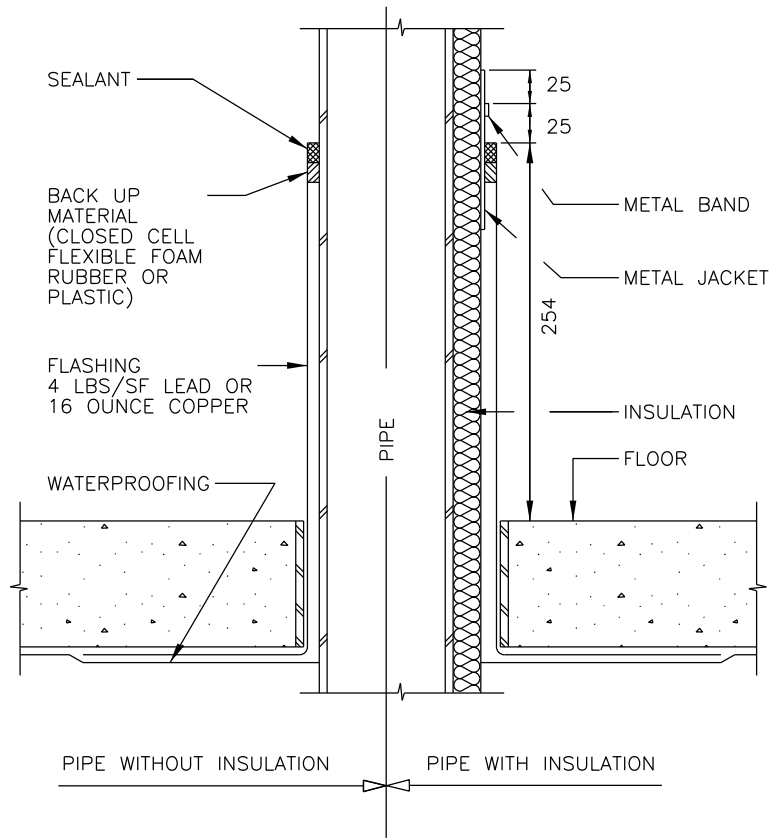
REV DATE: NOV 2015



NOTE :
 FIRESTOPPING SHALL BE IN ACCORDANCE WITH THE FIRESTOPPING MFG LISTED
 INSTALLATION INSTRUCTIONS.

PIPE SLEEVE THRU INTERIOR WALL
 NOT TO SCALE

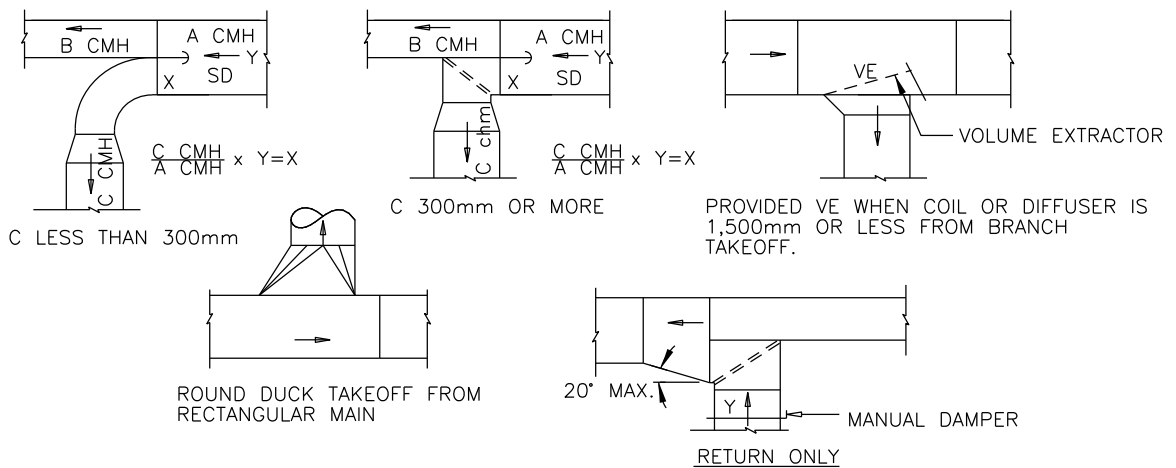
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PIPE SLEEVE THRU INTERIOR WALL	220000	M -317



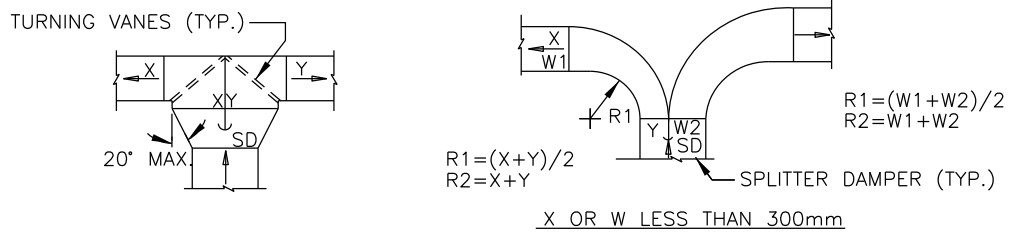
PIPE SLEEVE THRU FLOOR W/ WATER PROOFING
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PIPE SLEEVE THRU FLOOR W/ WATER PROOFING	220000	M -318

REV DATE: NOV 2015

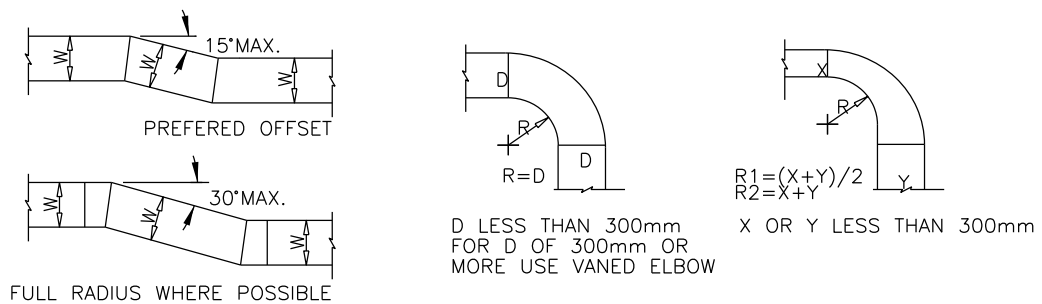


A BRANCH TAKEOFFS



NOTE; ABOVE APPLY TO SUPPLY AND RETURN

B 90° TEES



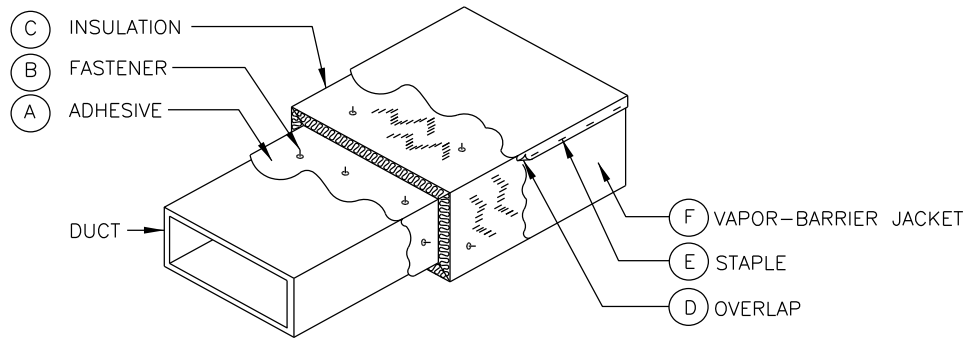
C OFFSETS

D 90° RADIUS ELBOWS

DUCT WORK DETAILS

NOT TO SCALE

	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	DUCT WORK DETAILS	230000	M -319



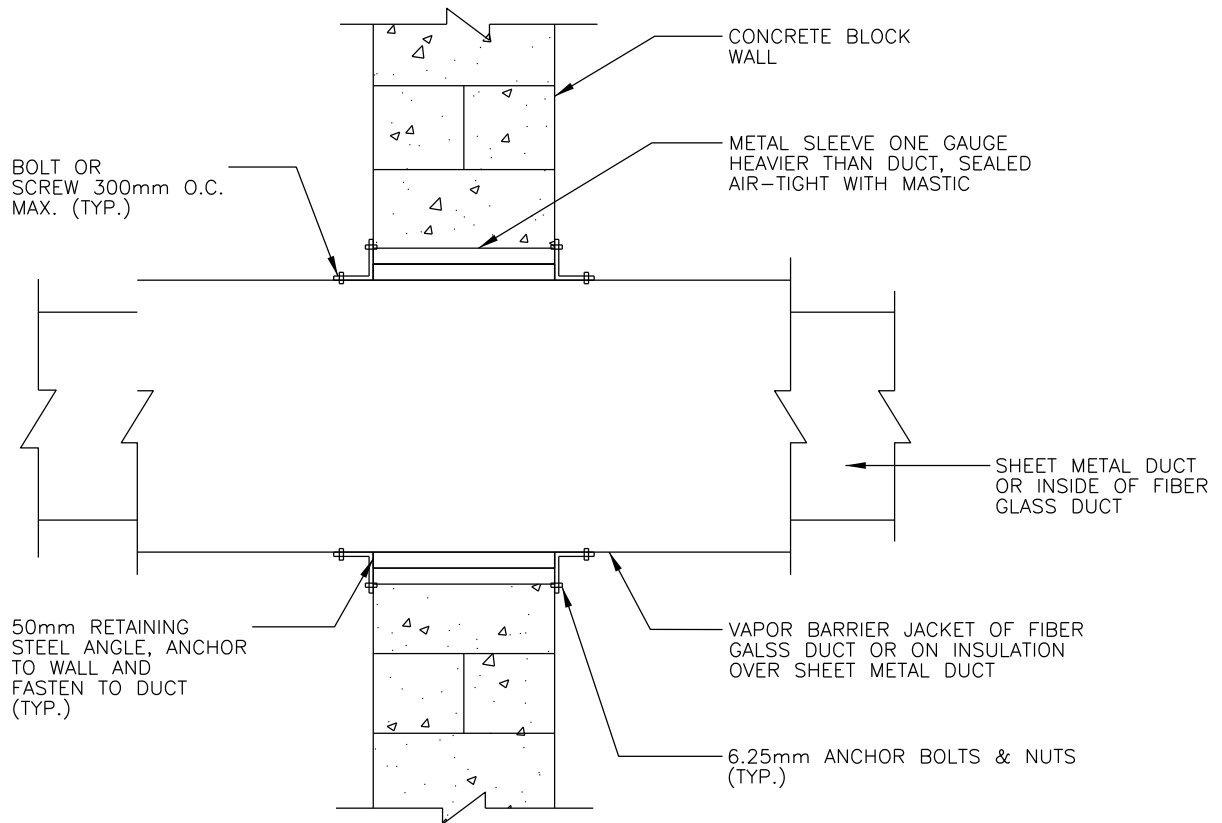
ITEM	CONCEALED	EXPOSED
(A)	CLASS II ADHESIVE (LESS THAN 600 DUCT) AROUND ENTIRE PERIMETER OF THE DUCT IN 150mm WIDTH STRIPS ON 300mm ON CENTER	
(B)	600mm LARGE DUCT BOTTOM/SIDES 450mm O.C. AND NOT MORE THAN 80 FROM DUCT CORNER.	ALL FOUR SIDE OF DUCT 300mm APART AND NOT MORE THAN 80mm FROM THE EDGES OF THE INSULATION JOINT.
(C)	FLEXIBLE TYPE	RIGID TYPE
(D)	CLASS II ADHESIVE UNDER THE 50mm OVERLAP.	CLASS II ADHESIVE UNDER THE 100mm OVERLAP.
(E)	100mm O.C. WITH TYPE II VAPOR-BARRIER COATING	
(F)	VAPOR-BARRIER JACKET	APPLYING TWO COATS OF VAPOR-BARRIER COATING WITH GLASS CLOTH EMBEDDED BETWEEN COATS.(WHEN FIELD APPLY VAPOR-BARRIER JACKET)

DUCT INSULATION

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	DUCT INSULATION	230700	M -320

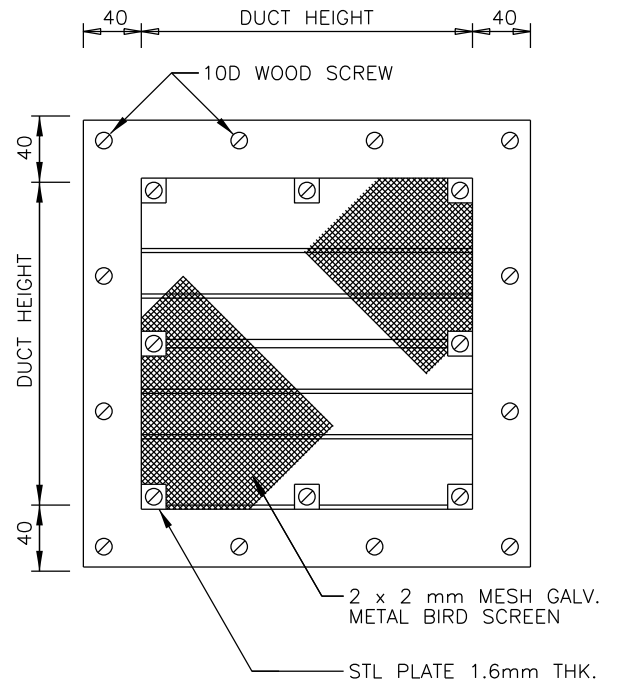
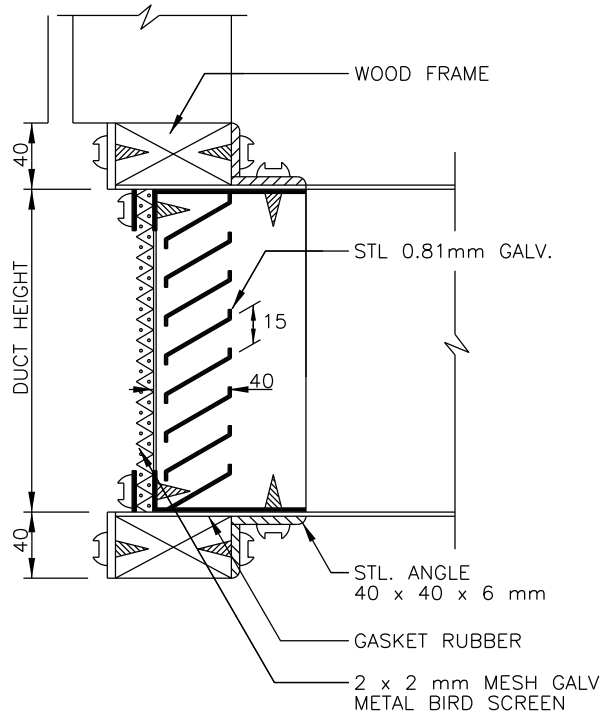
REV DATE: NOV 2015



DUCT THRU WALL
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	DUCT THRU WALL	230000	M -321

REV DATE: NOV 2015



FRESH AIR INTAKE LOUVER

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

DWG NO.

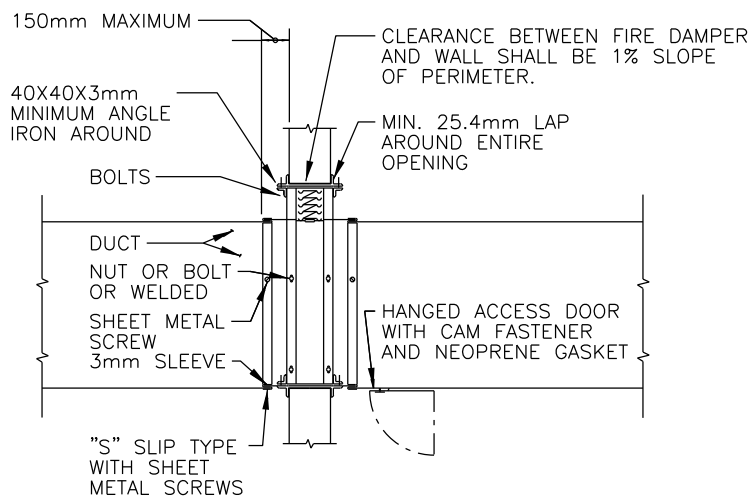
TITLE

FRESH AIR INTAKE LOUVER

230000

M -322

REV DATE: NOV 2015



NOTE :
 PROVIDE FIRE DAMPER FOR ROUND DUCT OR USE TRANSITIONS FOR ROUND TO SQUARE DUCT.
 PROVIDE THE LARGEST SIZE ACCESS DOOR AVAILABLE FOR DUCT.

NOTES:

- ① U.L. LISTED TYPE "B" DAMPER.
- ② SLEEVE SHALL BE FURNISHED BY FIRE DAMPER MANUFACTURER. SLEEVE CONSTRUCTION AND INSTALLATION SHALL MEET THE SMACNA STANDARDS.
- ③ BREAKAWAY CONNECTIONS PER SMACNA STANDARDS AND FIRE DAMPER MANUFACTURER INSTALLATION INSTRUCTIONS.
- ④ ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE FIRE DAMPER MANUFACTURERS INSTALLATION INSTRUCTIONS, AND SMACNA STANDARDS (FIRE, SMOKE AND RADIATION DAMPER INSTALLATION GUIDE FOR HVAC SYSTEMS-1986)
- ⑤ SECURE DAMPER TO SLEEVE PER MANUFACTURERS INSTALLATION INSTRUCTIONS.
- ⑥ INSULATE AND VAPOR SEAL ENTIRE DAMPER INSTALLATION (SUPPLY DUCTWORK) TO PREVENT CONDENSATION PER SMACNA "FIRE, SMOKE AND RADIATION DAMPER INSTALLATION GUIDE FOR HVAC SYSTEM"-1986 FIGURE 19. INSULATION MATERIAL SHALL BE FIBERGLASS AS SPECIFIED FOR SUPPLY AIR DUCTWORK.
- ⑦ LOCATION SHALL SUIT PROJECT CONDITION AND THE PROVISIONS OF NOTE 4 HEREIN.

FIRE DAMPER W/ FUSIBLE LINK DETAIL

NOT TO SCALE



IMCOM

O&MA STANDARD DETAILS, KOREA

TITLE

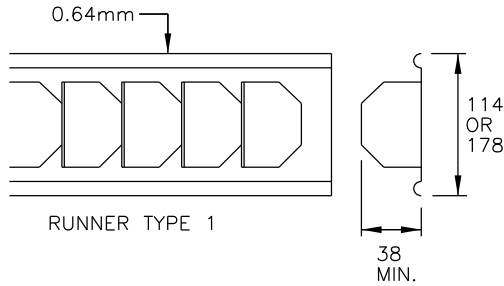
FIRE DAMPER W/ FUSIBLE LINK DETAIL

OMA SPEC

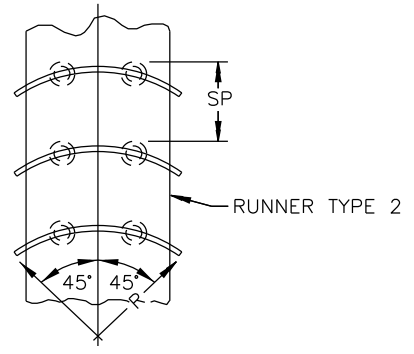
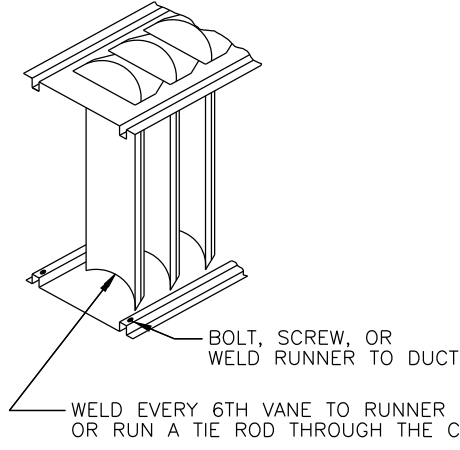
230000

DWG NO.

M -323



FREE AREA BETWEEN DOUBLE WALL VANES APPROXIMATES ELBOW INLET AREA.



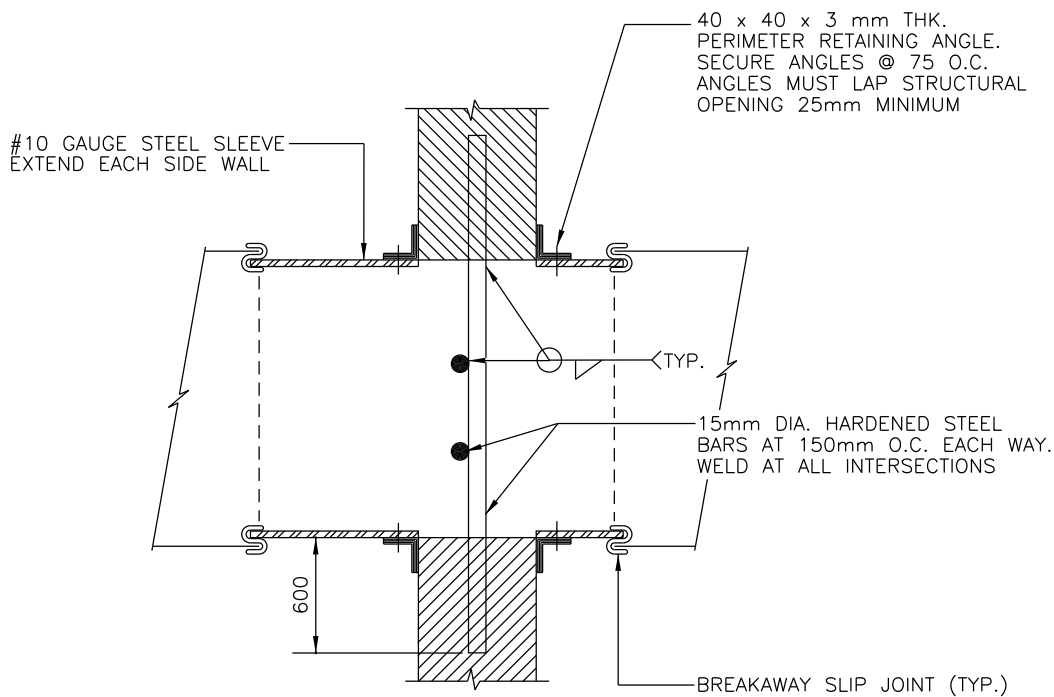
SINGLE VANE SCHEDULE (UNIT: mm)			
	R	SP	THK
SMALL	51	38	0.51
LARGE	114	83	0.64

SEE NOTES ON FIG.2-4 (SMACNA) OTHER RUNNERS MAY BE USED. OTHER VANE SIZES, SPACINGS OR CONFIGURATION ACCEPTABLE ON DESIGNER APPROVAL.

* REF. FIG.2-3 (SMACNA) FOR OTHER TYPES.

DUCT TURNING VANES & RUNNERS DETAILS
NOT TO SCALE

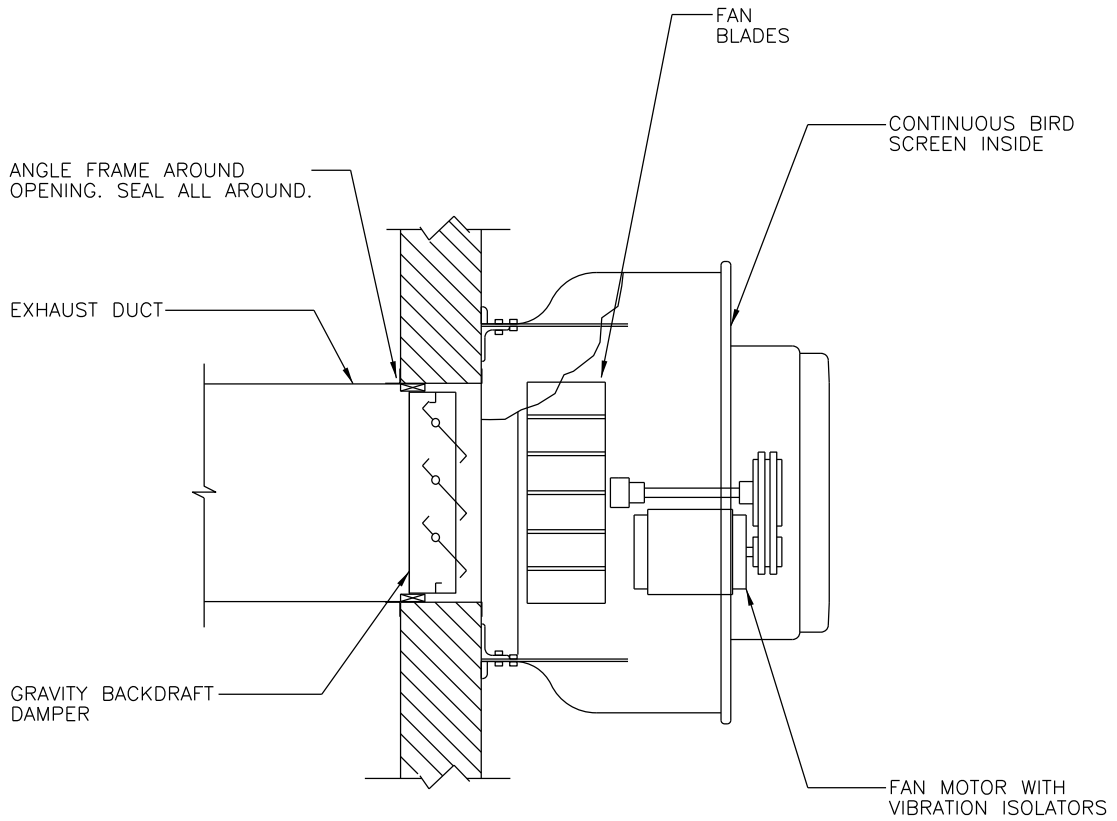
	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	DUCT TURNING VANES & RUNNERS DETAILS	230000	M -324



SECURE AREA DUCT PENETRATION

NOT TO SCALE

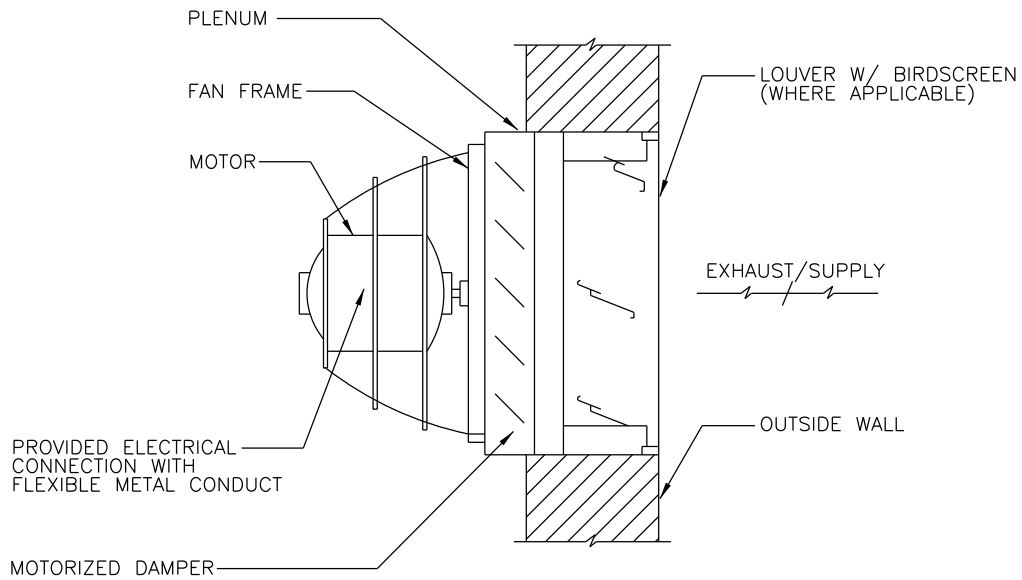
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	MECHANICAL DETAIL - SECURE AREA DUCT PENETRATION	230000	M -325



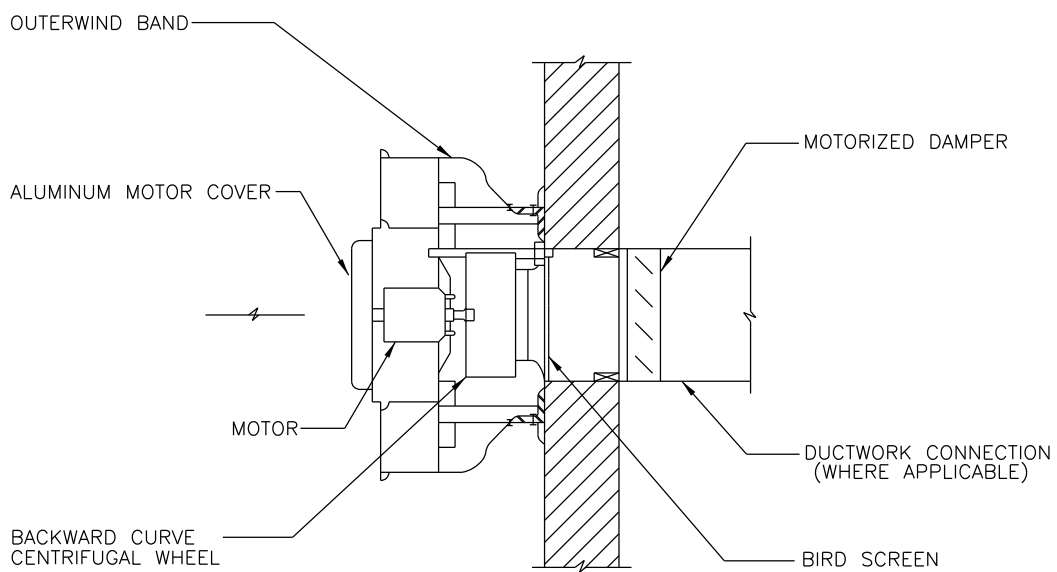
WALL VENTILATION INSTALLATION
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	MECHANICAL DETAIL - WALL VENTILATION INSTALLATION	230000	M -326

REV DATE: NOV 2015



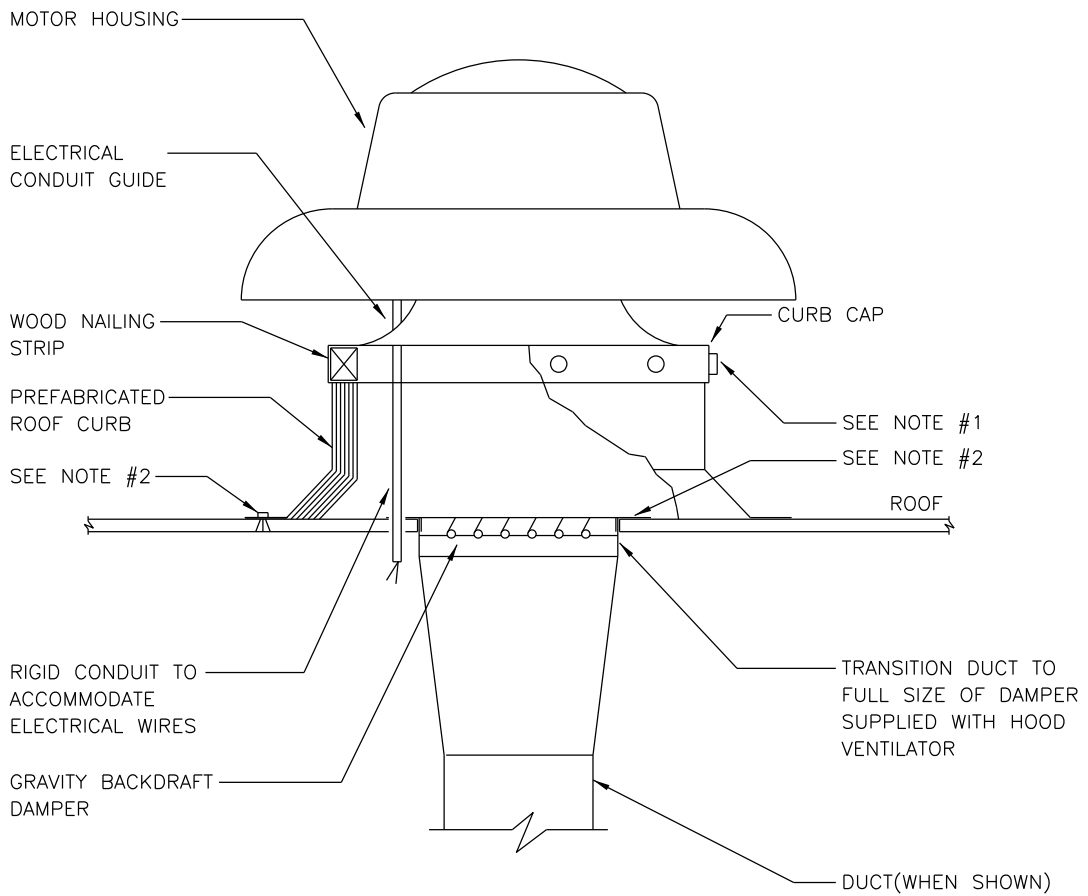
(A) PROPELLER FAN DETAIL



(B) CENTRIFUGAL WALL FAN DETAIL

PROPELLER & CENTRIFUGAL EXHAUST FAN
 NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	MECHANICAL DETAIL - PROPELLER & CENTRIFUGAL EXHAUST FAN	230000	M -327



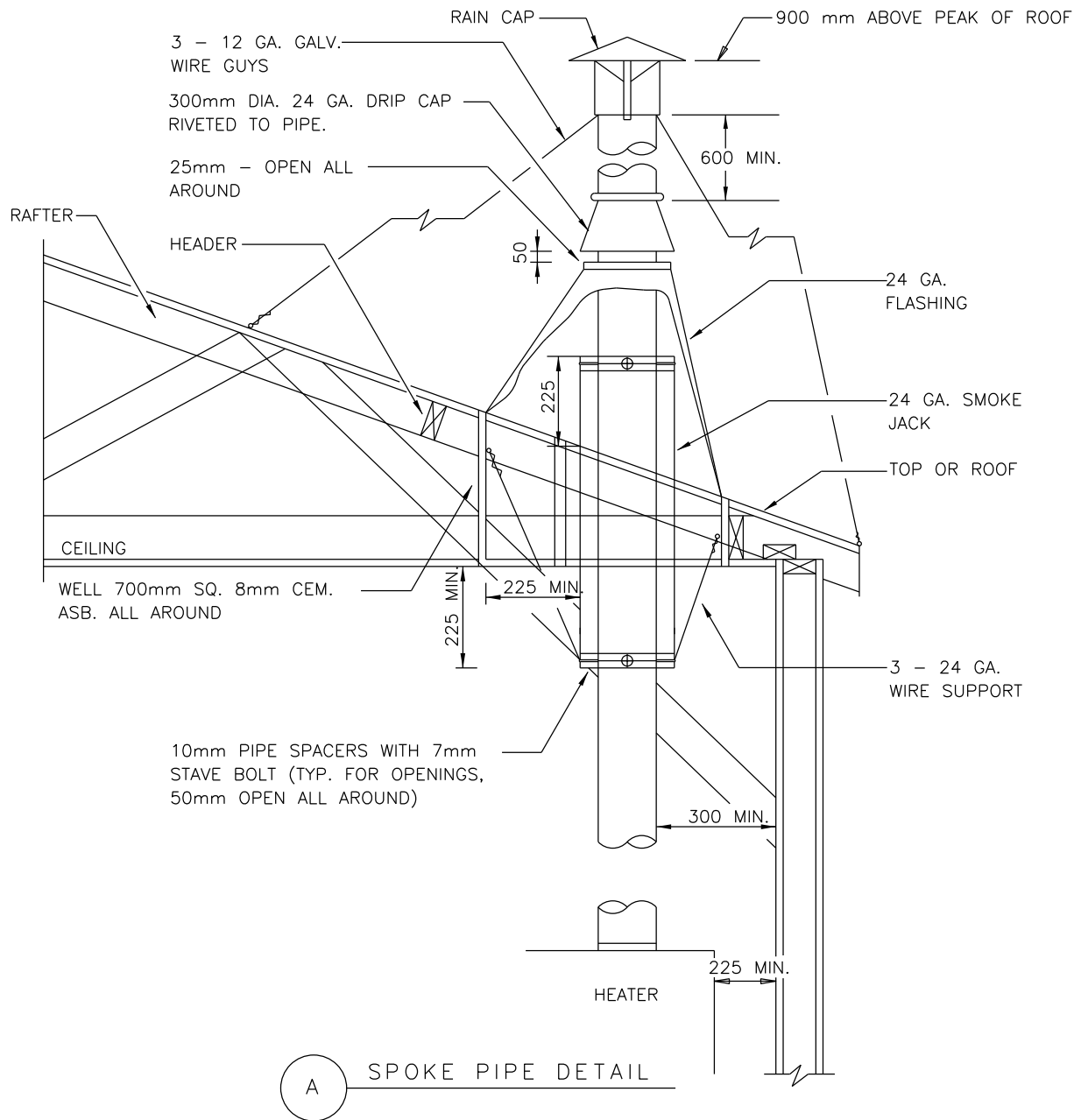
NOTES :

1. SECURE CURB CAP TO WOOD NAILING STRIP WITH 10 mm CADMIUM PLATED LAG BOLTS NOT OVER 300 mm ON CENTER.
2. SECURE ROOF CURB, DUCTWORK AND DAMPER TO ROOF WITH EXPANSION BOLTS. (CONCRETE ROOF) OR RUST RESISTANT BOLTS (METAL DECK AND BAR JOIST ROOF).
3. SIZE OF DUCT THROUGH ROOF SHALL NOT BE LARGER THAN CURB SUPPLIED WITH ROOF VENTILATOR
4. RUN ELECTRIC LINES THROUGH CLEARANCE HOLE PROVIDED IN GRAVITY DAMPER, THEN THROUGH VENTILATOR ELECTRICAL CONDUIT GUIDE.

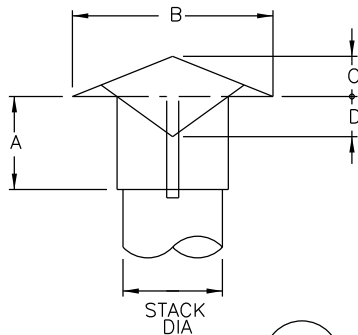
TYPICAL POWER TYPE ROOF VENTILATION

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	MECHANICAL DETAIL - TYPICAL POWER TYPE ROOF VENTILATION	230000	M -328



(A) SPOKE PIPE DETAIL



(B) RAIN CAP DETAIL

STACK DIA (mm)	"A" (mm)	"B" (mm)	"C" (mm)	"D" (mm)
150	125	300	80	80
200	150	400	100	100
250	200	500	125	125
300	225	600	150	150
400	300	800	200	200
500	375	1,000	250	250
600	450	1,200	300	300
600	525	1,200	300	300

SMOKE STACK DETAIL
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

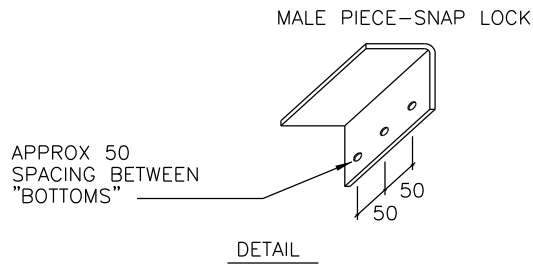
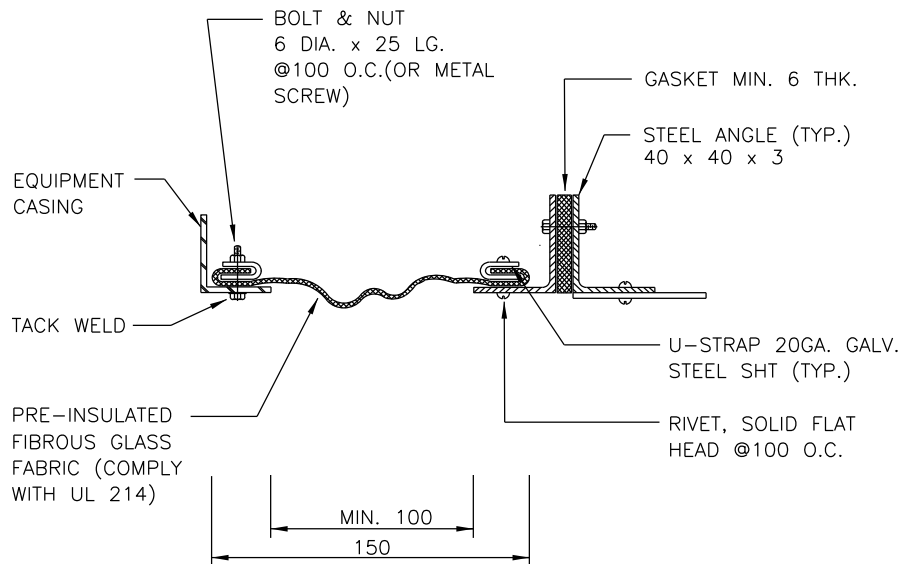
MECHANICAL DETAILS - SMOKE STACK DETAIL

OMA SPEC

230000

DWG NO.

M -329



FLEXIBLE CONNECTION & ANGLE FLANGE CONNECTION
 NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

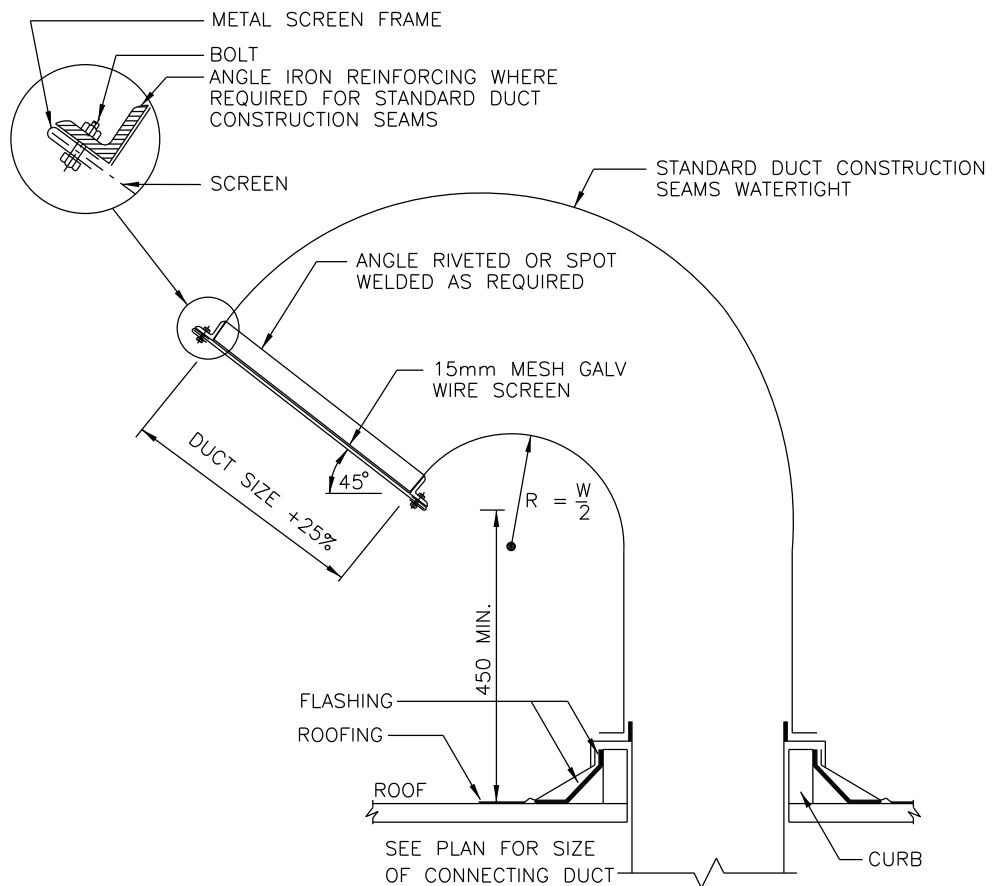
DWG NO.

TITLE

MECHANICAL DETAILS - FLEXIBLE CONNECTION AND
 ANGLE FLANGE CONNECTION

230000

M -330



RECTANGULAR GOOSENECK

NOTES :

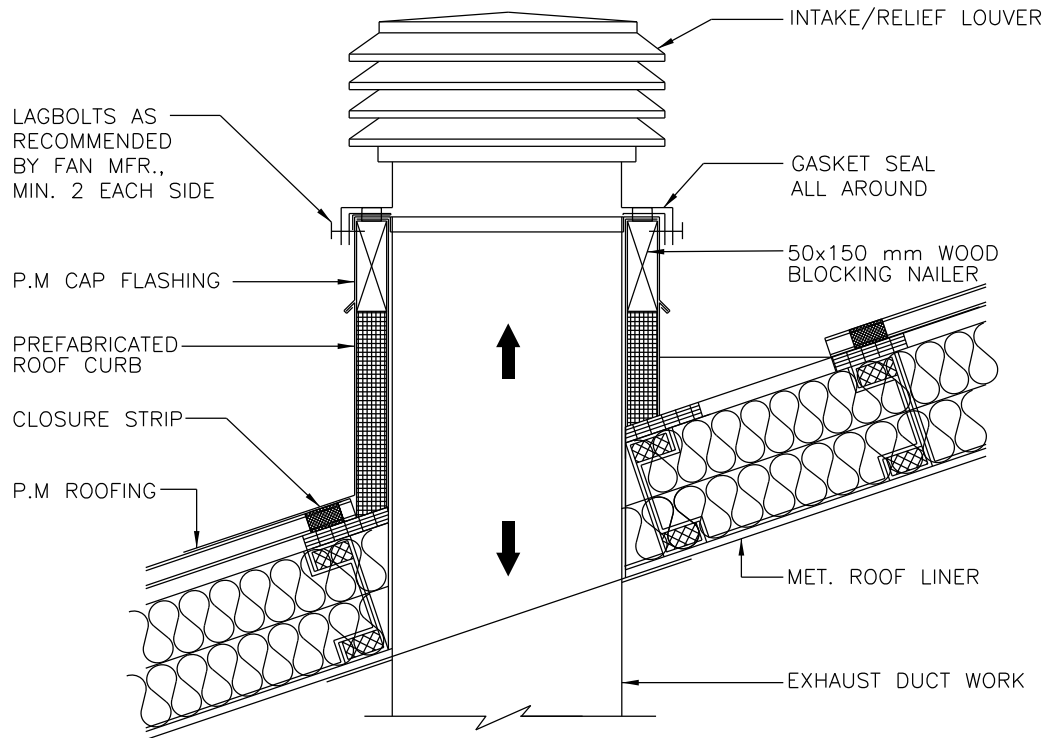
1. SEE ARCHITECTURAL DRAWINGS AND / OR SPECIFICATIONS FOR CURB, FLASHING & ROOFING.
2. WHEN WOOD PLATE IS PROVIDED AROUND TOP OF CURB, SECURE FLASHING & GOOSE MECCA TO WOOD PLATE WITH 10mm CADMIUM PLATED LAG BOLTS NOT OVER 300 mm ON CENTERS.

WHEN PREFAB. METAL CURB IS USED, SECURE FLASHING & GOOSENECK WITH SHEET METAL SCREWS AS REQUIRED FOR TIGHT JOINTS & RIGID INSTALLATION.

GOOSENECK DETAIL

NOT TO SCALE

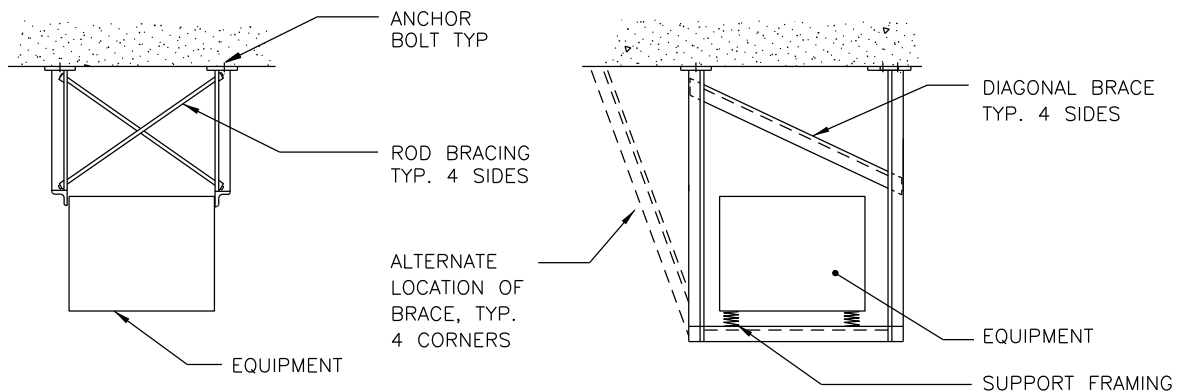
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	MECHANICAL DETAILS - GOOSENECK DETAIL	230000	M -331



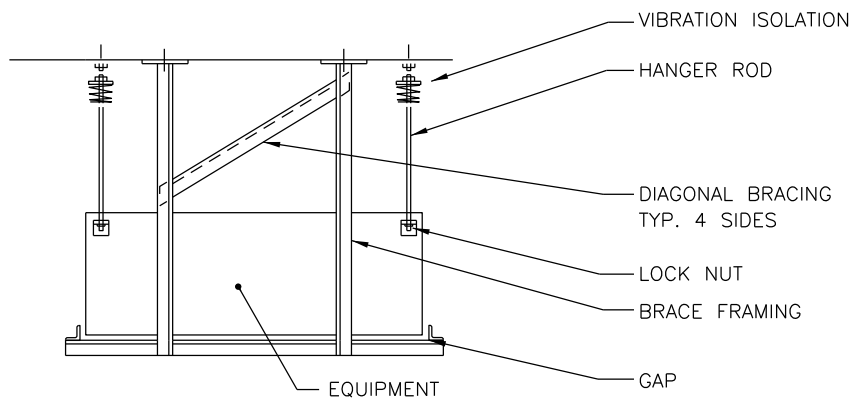
AIR INTAKE/RELIEF PENTHOUSE DETAIL
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	MECHANICAL DETAILS - AIR INTAKE/RELIEF PENTHOUSE DETAIL	230000	M -332

REV DATE: NOV 2015



A SUSPENDED EQUIPMENT

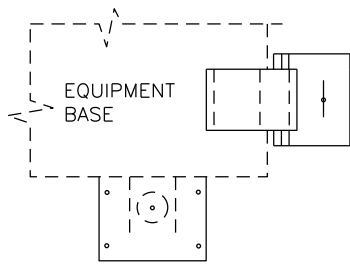


B SUSPENDED EQUIPMENT WITH VIBRATION MOUNT

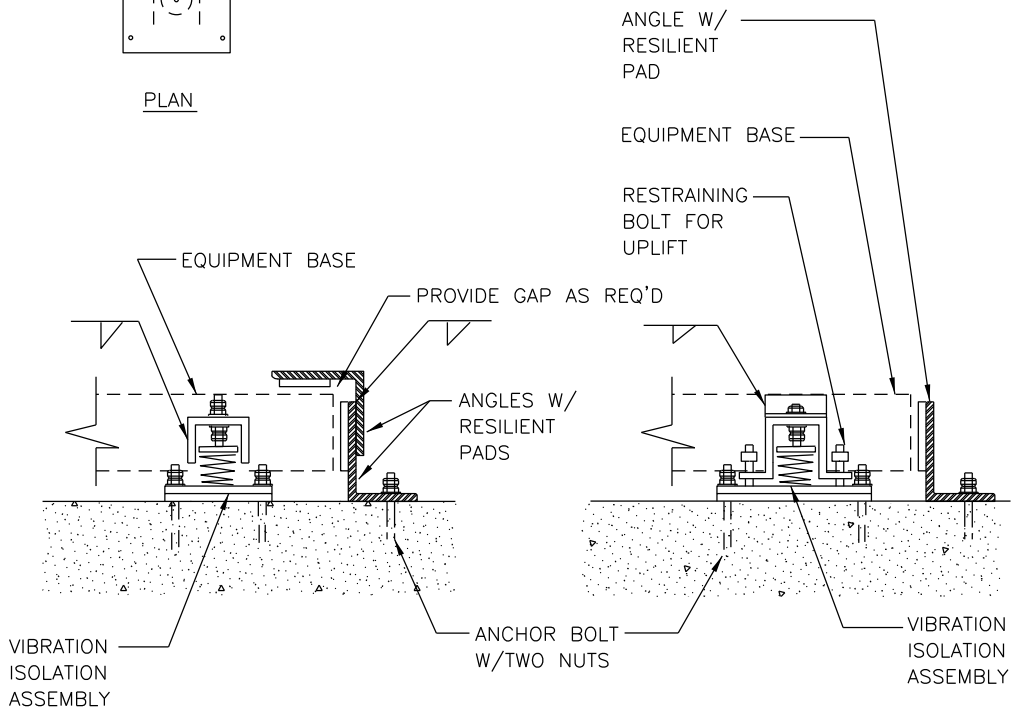
NOTE: ATFP REQUIRES EQUIPMENT WEIGHT 14 KG OR MORE TO BE BRACED TO RESIST FORCES OF 0.5 TIMES THE EQUIPMENT WEIGHT IN ANY HORIZONTAL DIRECTION AND 1.5 TIMES THE EQUIPMENT WEIGHT IN THE DOWNWARD DIRECTION

TYPICAL SEISMIC RESTRAINT DETAIL
NOT TO SCALE

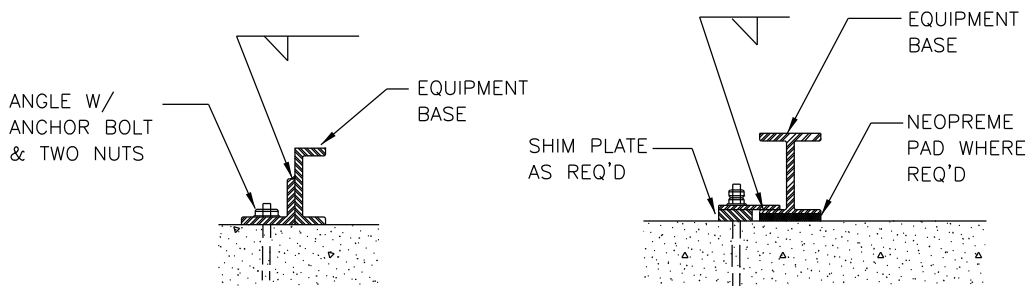
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	MECHANICAL DETAILS - TYPICAL SEISMIC RESTRAINT DETAIL	230000	M -333



PLAN



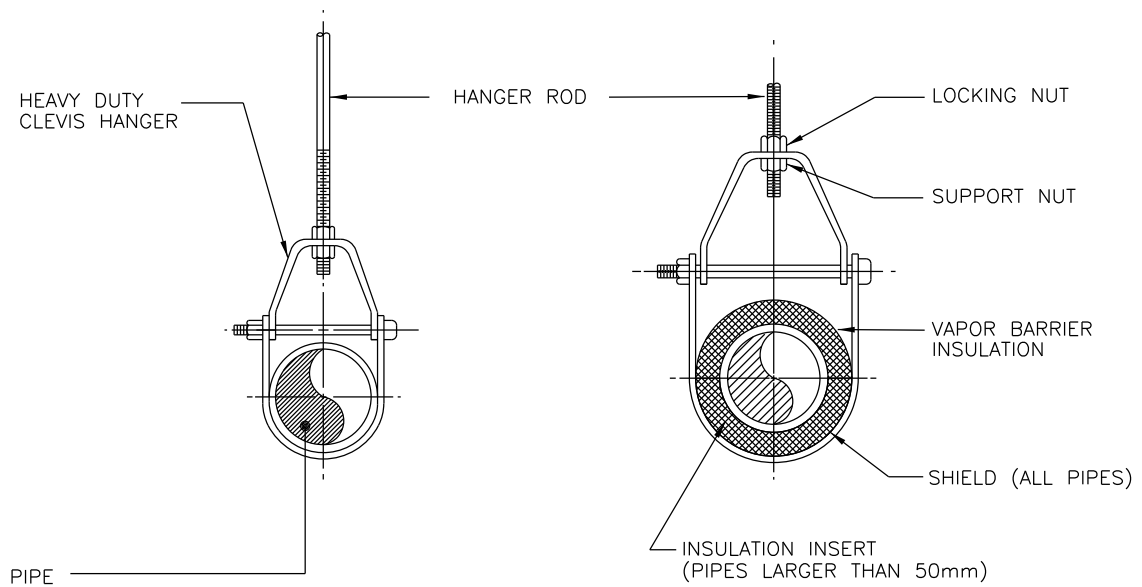
A SPRING ISOLATED EQUIPMENT



B RIGIDLY MOUNTED EQUIPMENT

SEISMIC RESTRAINT FOR MECHANICAL EQUIPMENT DETAIL
NOT TO SCALE

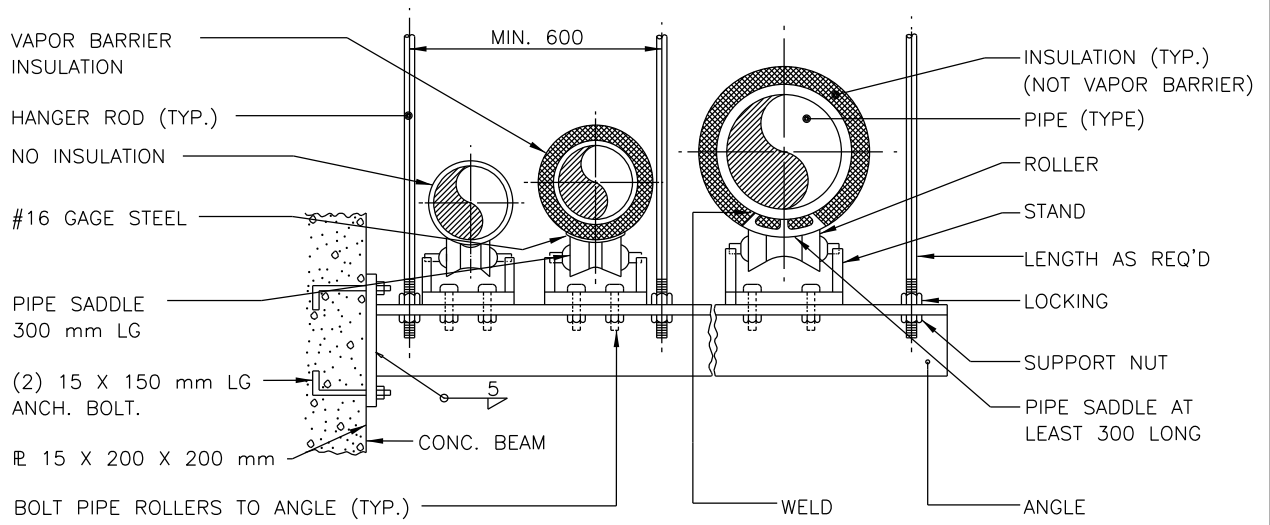
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	MECHANICAL DETAILS - SEISMIC RESTRAINT FOR MECHANICAL EQUIPMENT	230000	M -334



HANGER ROD SCHEDULE (UNIT: mm)			
PIPE SIZE	ROD SIZE	PIPE SIZE	ROD SIZE
UP TO 50	10 DIA.	100 THRU 125	16 DIA.
65 THRU 80	15 DIA.		

PIPE CLEVIS HANGER DETAIL
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	MECHANICAL DETAILS - PIPE CLEVIS HANGER DETAIL	230000	M -335



HANGER ROD SCHEDULE (UNIT: mm)			
PIPE SIZE	ROD SIZE	PIPE SIZE	ROD SIZE
UP TO 50	10 DIA.	100 THRU 125	16 DIA.
65 THRU 80	15 DIA.		

HANGER ROD SPACING (UNIT: mm)							
PIPE SIZE	25	32	40	50	65	80	100
MAX. ALLOWABLE SPACING	2,100	2,400	2,700	3,000	3,300	3,600	3,900
NOTE : FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST PIPE ON TRAPEZE.							

NOTE

CONNECTION TO CONCRETE FLOOR W/CONCRETE ANCHORS OR TO ROOF STRUCTURE MEMBER FOR TOP FLOOR

PIPE TRAPEZE HANGER DETAIL

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

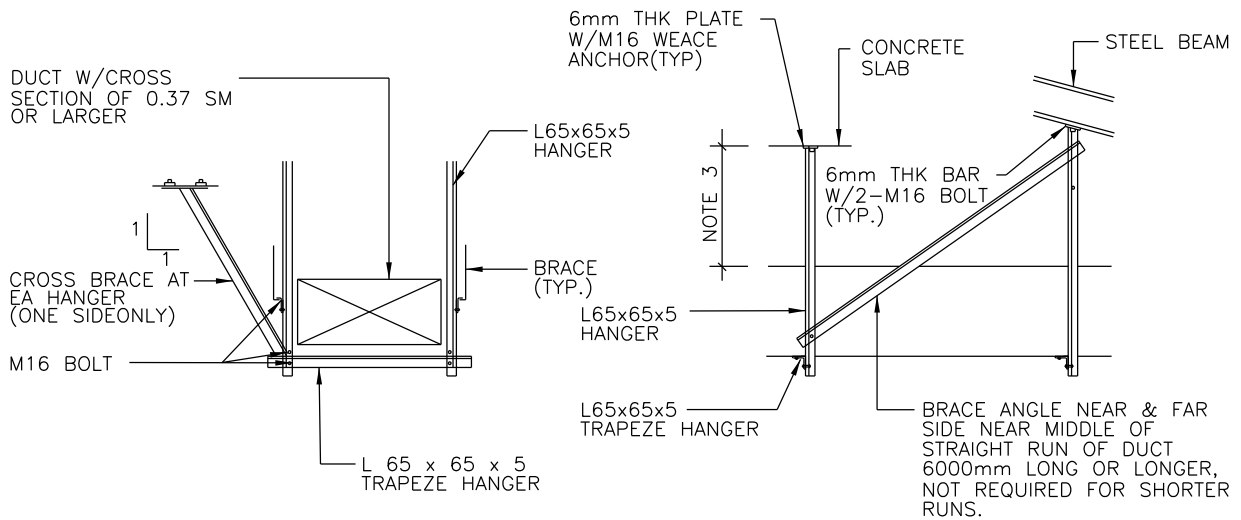
MECHANICAL DETAILS - PIPE TRAPEZE AHNGER DETAIL

OMA SPEC

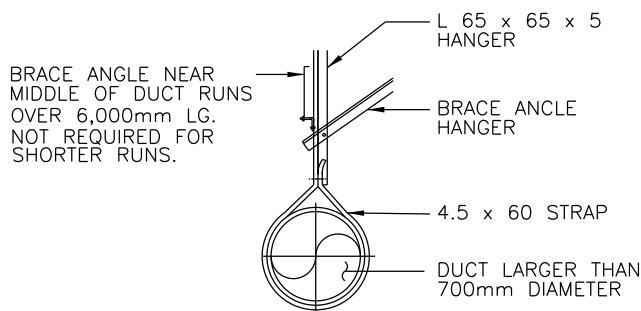
230000

DWG NO.

M -336



(A) SEISMIC BRACING



GROSS-BRACE SCHEDULE	
BRACE ANGLE	MAX. LENGTH (MM)
L65 x 65 x 5	2,500
L70 x 70 x 6	2,700
L75 x 75 x 6	3,000
L80 x 80 x 6	3,200
L90 x 90 x 6	3,600

(B) ROUND DUCT SEISMIC

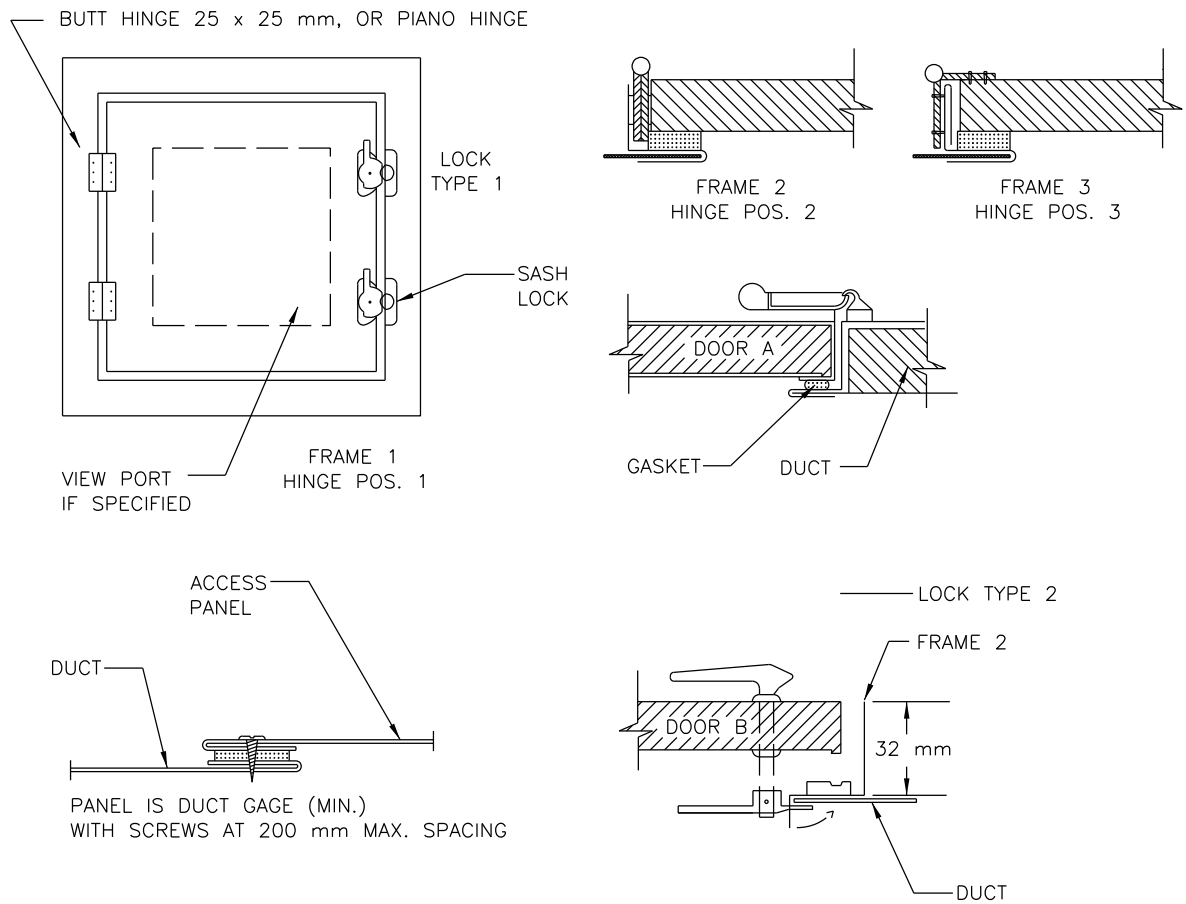
NOTES :

1. MAX BRACE ANGLE LENGTH IS TO CENTERLINE OF BOLTS.
2. ALL BOLTS ARE M16, FOR MACHINE BOLTS, USE DOUBLE NUTS OR BEND UP SAFETY WASHERS. LOCK WASHERS NOT PERMITTED, HIGH STRENGTH BOLTS MAY BE USED AT CONTRACTOR'S OPTION.
3. SEISMIC BRACING NOT REQUIRED IF THIS DIMENSION IS 300mm OR LESS.

SEISMIC DUCT HANGER DETAIL

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	MECHANICAL DETAILS - SEISMIC DUCT HANGER DETAIL	230000	M -337



	DOOR SIZE	NO. HINGES	NO. LOCKS	METAL GAGE		
				FRAME	DOOR	BACK
2" W.G. STATIC AND LESS	12" x 12"	2	1-S	24	26	26
	16" x 20"	2	2-S	22	24	26
	24" x 24"	3	2-S	22	22	26
3" W.G. STATIC	12" x 12"	2	1-S	22	22	26
	16" x 20"	2	1-S,1-T,1-B	20	20	26
	24" x 24"	3	2-S,1-T,1-B	20	20	24
4" W.G. TO 10" W.G.	12" x 12"	2	1-S,1-T,1-B	20	20	26
	16" x 20"	3	2-S,1-T,1-B	18	18	24
	24" x 24"	3	2-S,2-T,2-B	18	18	24

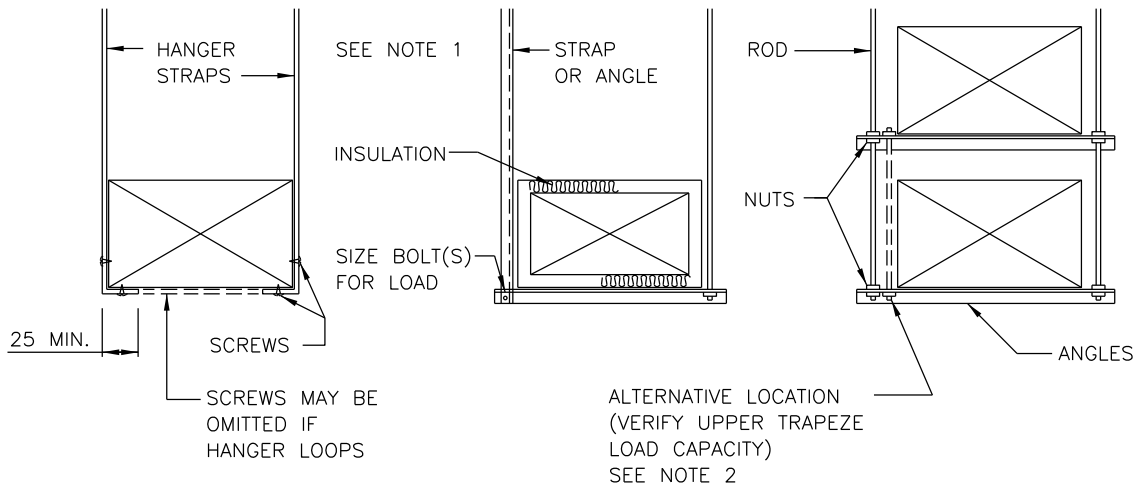
S = SIDE OPPOSITE HINGES, T = TOP, B = BOTTOM, 1" = 25 mm

DUCT ACCESS DOOR DETAIL
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	MECHANICAL DETAILS - DUCT ACCESS DOOR DETAIL	230000	M -338

STRAP HANGERS

TRAPEZE HANGERS



HANGER SIZES FOR RECTANGULAR DUCT (UNIT: mm)				
LONGEST DIMENSION OF DUCT	HANGER RODS	STRAP HANGERS	TRAPEZE SHELF ANGLES	MAXIMUM SPACING
UP THRU 450	-	25 x 22 GA	25 x 25 x 3	3,000
475 THRU 750	-	25 x 22 GA	25 x 25 x 3	3,000
775 THRU 1,050	10 DIA	25 x 18 GA	40 x 40 x 3	3,000
1,075 THRU 1,500	10 DIA	25 x 18 GA	40 x 40 x 3	3,000
1,525 THRU 2,100	10 DIA	25 x 16 GA	50 x 50 x 3	2,400
2,125 THRU 2,400	10 DIA	25 x 16 GA	50 x 50 x 5	2,400
OVER 2425	15 DIA	40 x 16 GA	50 x 50 x 6	2,400

- NOTES :
1. DISTANCE IS NOT EXCEED 1,500 UNLESS FOOT OF STRAP IS PLACED UNDER A BOTTOM REINFORCEMENT.
 2. REINFORCEMENT MAY BE USED FOR ATTACHMENT IF IT QUALIFIES FOR BOTH DUTIES.

DUCT HANGER DETAIL

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

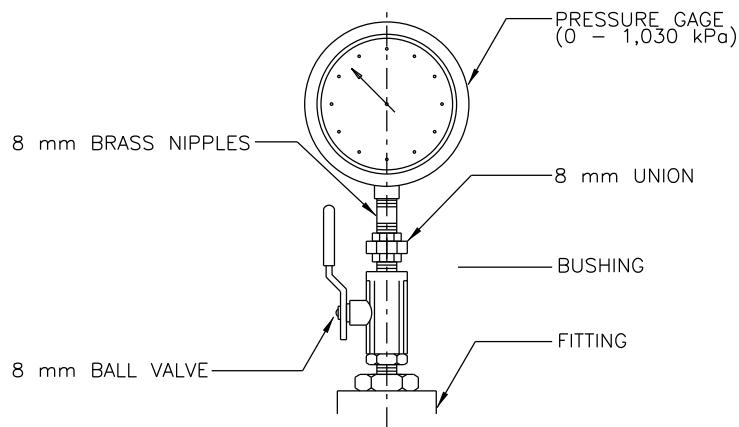
MECHANICAL DETAILS - DUCT HANGER DETAIL

OMA SPEC

230000

DWG NO.

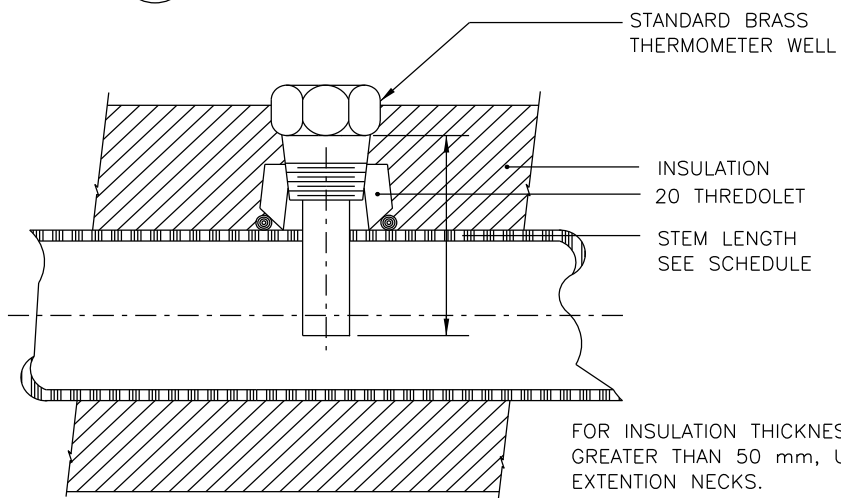
M -339



A PRESSURE GAGE

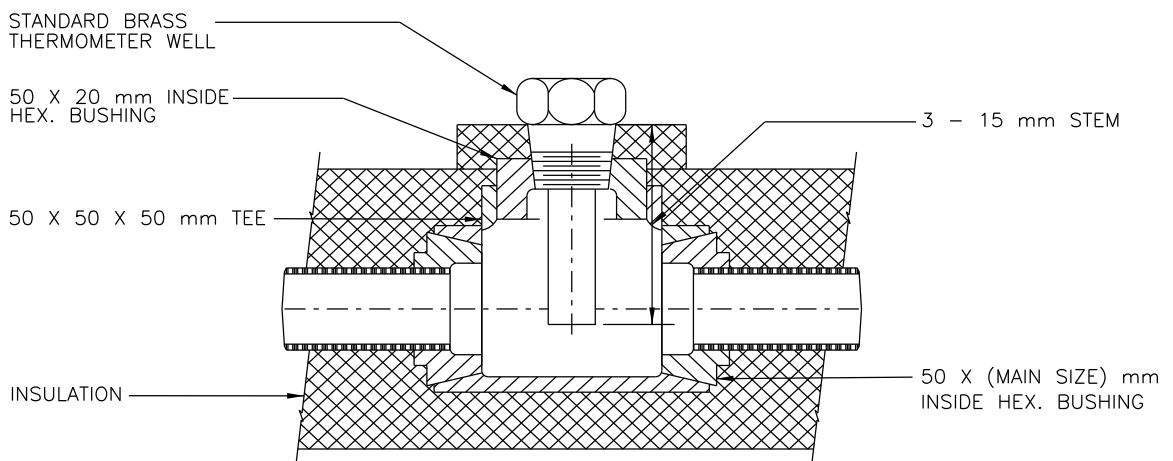
PIPE SIZE	STEM LENGTH
250 - 800	3 - 15
1,000	5 - 60
1,250 - 1,500	150
2,000	200
2,500 - UP	300

(UNIT : mm)



FOR INSULATION THICKNESS GREATER THAN 50 mm, USE EXTENSION NECKS. PROVIDE BRASS PLUGS IN UNUSED WELLS.

B DETAIL FOR PIPES 650 mm & LARGER SIZE



C DETAIL FOR PIPES 250 THRU 500 mm SIZE

PRESSURE GAGE & THERMOMETER WELLS
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

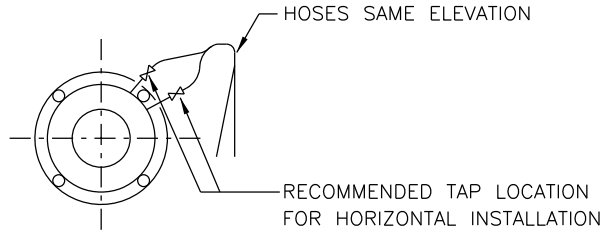
MECHANICAL DETAILS - PRESSURE GAUGE & THERMOMETER WELLS

OMA SPEC

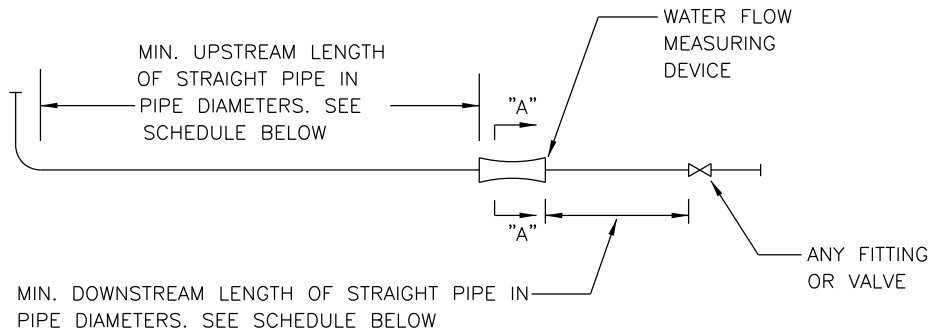
230000

DWG NO.

M -340



SECTION "A - A"



WATER FLOW MEASURING DEVICE INSTALLATION SCHEDULE (UNIT: mm)			
TYPE	MIN. UPSTREAM LENGTH OF STRAIGHT PIPE IN PIPE DIAMETERS		MIN. DOWNSTREAM LENGTH OF STRAIGHT PIPE IN PIPE DIAMETERS
	FOR SIDE TEE	FOR VALVE OR OTHER FITTING	
ORIFICE FLANGE OR FLOATING BALL WITH IMPACT TUBE	20	10	5
VENTURI, AUTOMATIC BALANCING CONTROL VALVE, OR INSERTION VELOCITY AVERAGING AND MEASURING TUBE	10	5	2

NOTES :

1. DIMENSIONS SHOWN IN SCHEDULE ARE MINIMUM REQUIRED IF MANUFACTURER OF FURNISHED WATER FLOW MEASURING DEVICE RECOMMENDS A GREATER DIMENSION, USE THEIR RECOMMENDATION.
2. INSTALL THE WATER FLOW MEASURING DEVICE SO THE FLOW ARROW IS IN THE SAME DIRECTION AS THE FLOW.
3. THE WATER FLOW MEASURING DEVICE MAY BE INSTALLED IN EITHER HORIZONTAL OR VERTICAL PIPE. UNITS REQUIRING REMOTE METERS SHALL HAVE THE METER CONNECTIONS LOCATED ON OR NEAR THE SIDE WHEN INSTALLED IN HORIZONTAL PIPE. SEE SECTION "A-A". THE METER CONNECTIONS CAN BE INSTALLED IN ANY POSITION WHEN INSTALLED IN VERTICAL PIPE.

WATER FLOW MEASURING DEVICE INSTALLATION DETAIL

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

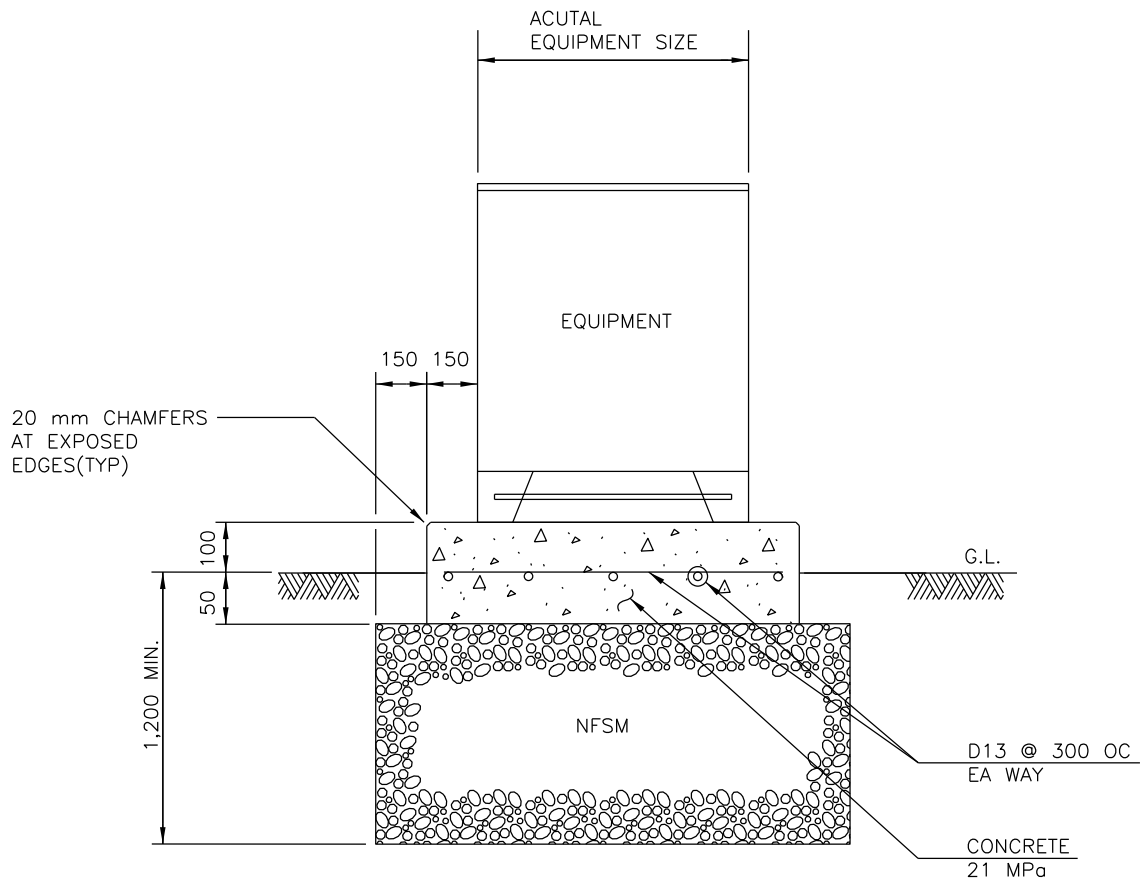
TITLE MECHANICAL DETAILS - WATER FLOW MEASURING DEVICE

OMA SPEC

230000

DWG NO.

M -341

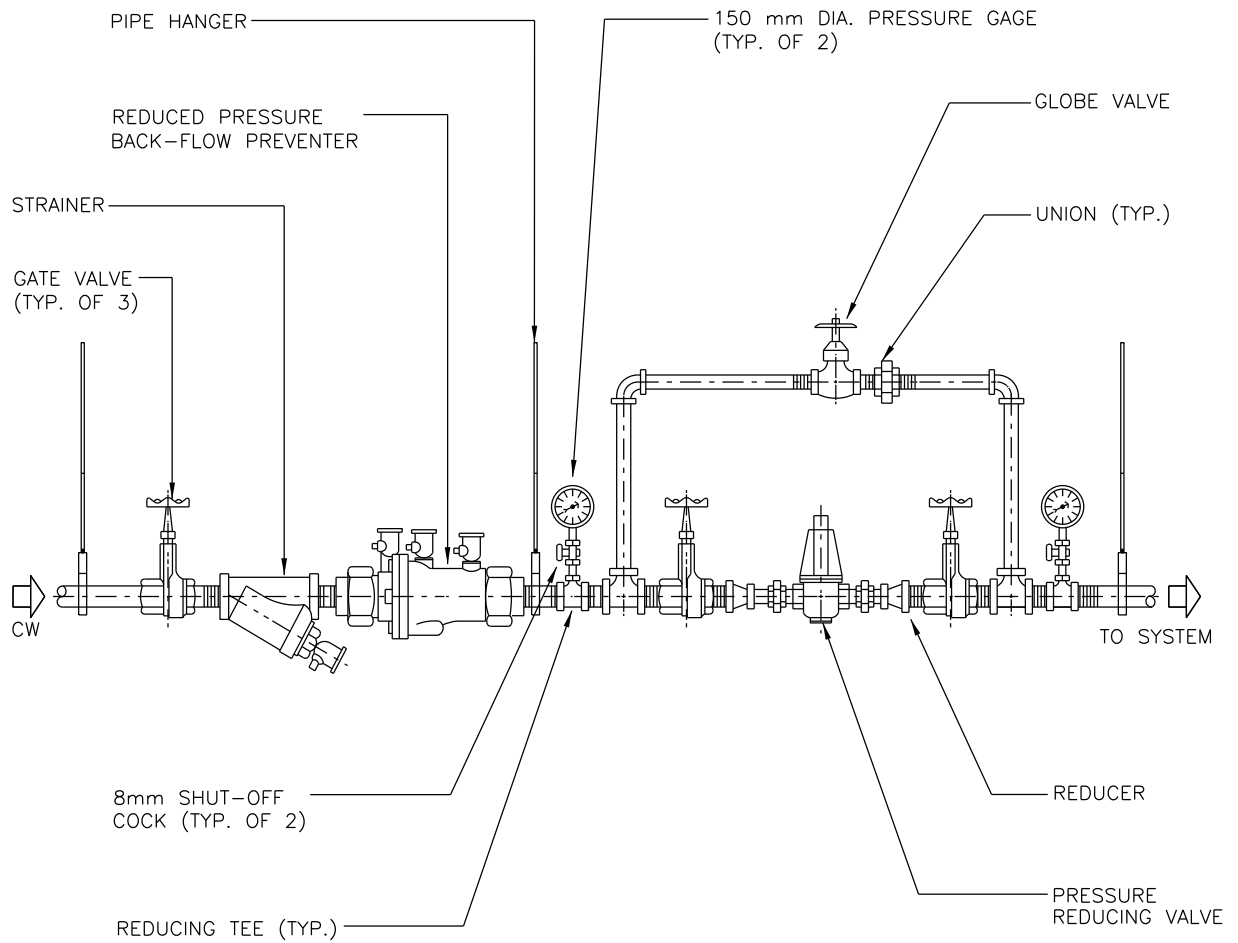


EQUIPMENT CONCRETE PAD DETAIL

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	MECHANICAL DETAIL - EQUIPMENT CONCRETE PAD	230000	M -342

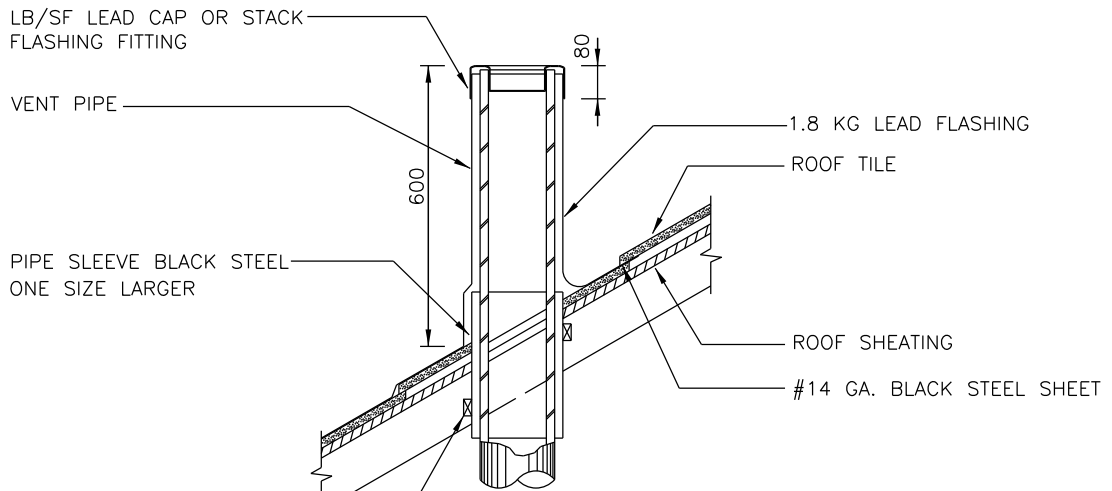
REV DATE: NOV 2015



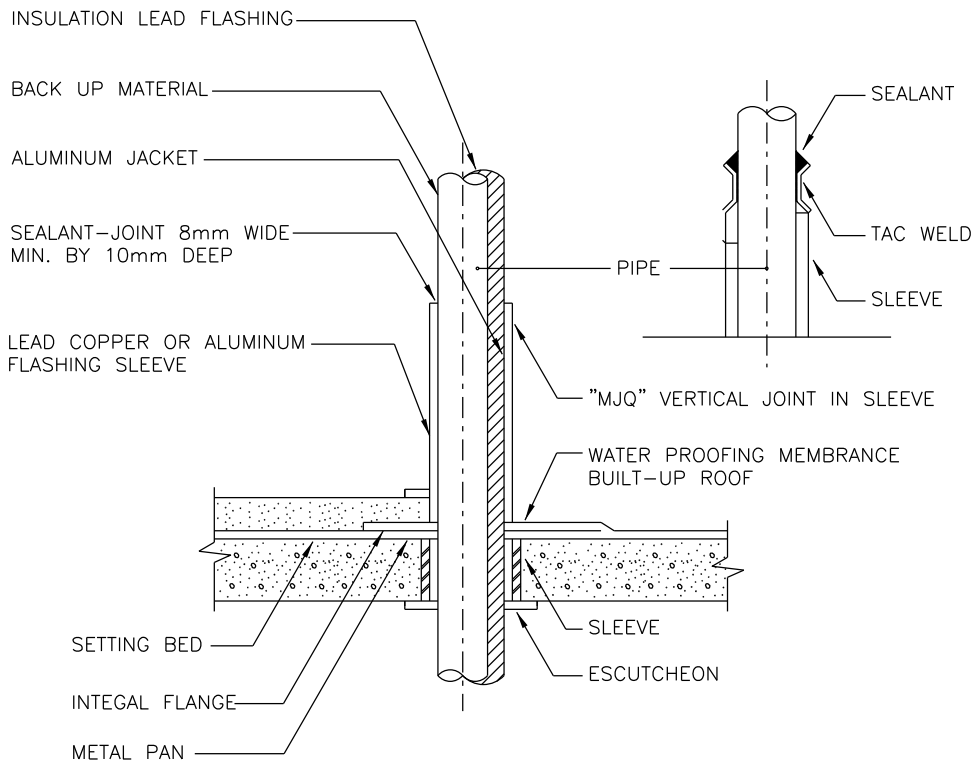
BACK FLOW PREVENTER AND PRESSURE REDUCING STATION
 NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PLUMBING DETAILS - MAKE UP WATER PIPING	220000	M -401

REV DATE: NOV 2015



FOR VENT PIPE LESS THEN 200mm
USE MINIMUM 25x100mm BLOCKING



TYPICAL VENT FLASHING
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

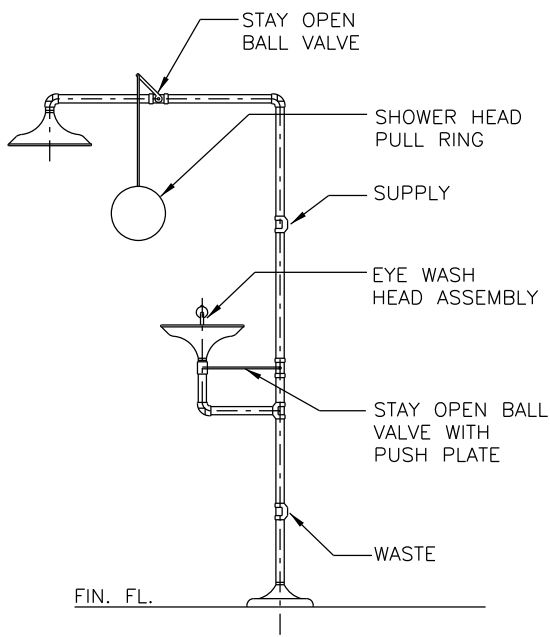
PLUMBING DETAIL - TYPICAL VENT FLASHING

OMA SPEC

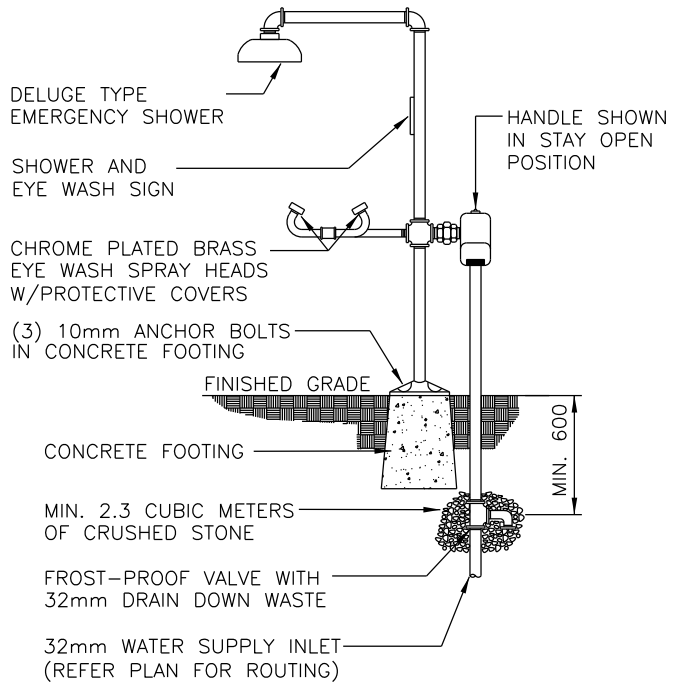
220000

DWG NO.

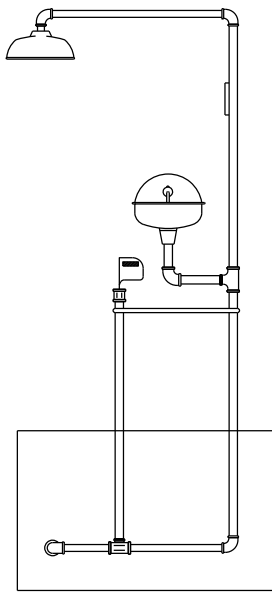
M -402



A SHOWER/EYE WASH UNIT



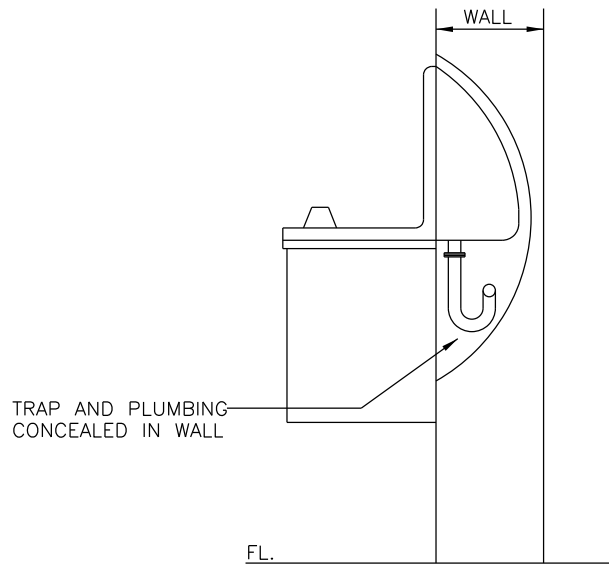
B FROST-PROOF DRENCH SHOWER/EYE WASH UNIT



C PIPE DETAIL

COMBINATION DRENCH SHOWER/EYE WASH UNIT DETAIL
NOT TO SCALE

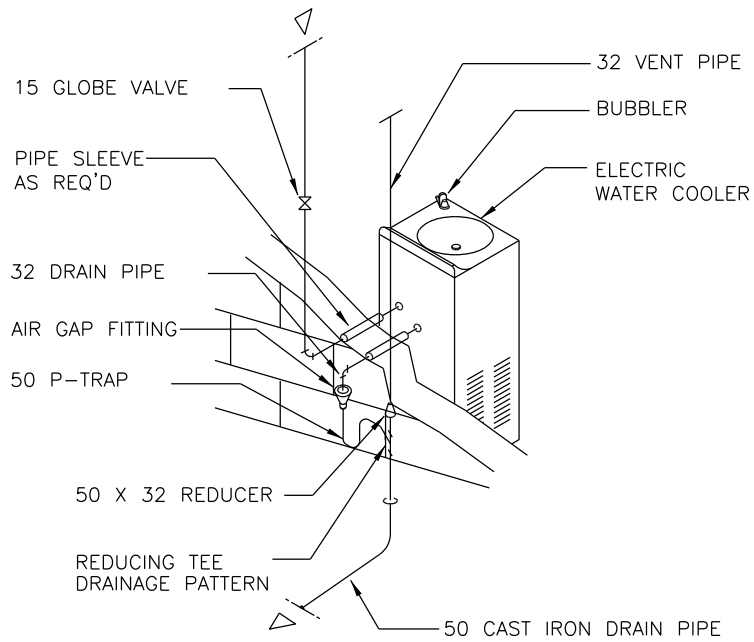
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PLUMBING DETAIL - EMERGENCY SHOWER / EYE WASH	220000	M -403



NOTE :

INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

A SEMI-RECESSED TYPE WATER COOLER



NOTE :

WATER COOLER SHALL BE FREE STANDING TYPE.

B ELECTRIC WATER COOLER

WATER COOLER
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PLUMBING DETAIL - WATER COOLER	220000	M -404

SYMBOLS	FIXTURES	PIPE CONNECTION SIZES (mm)				MOUNTING HEIGHTS FROM FINISH FLOOR
		C.W.	H.W.	WASTE	VENT	
P-1	WATER CLOSET, FLUSH VALVE	25	-	100	-	350 TO 375
	WATER CLOSET, FLUSH TANK	15	-	100	-	350 TO 375
P-2	URINAL STALL, FLUSH VALVE	20	-	50	40	600
P-3	BATHTUB	15	15	50	32	-
P-4	LAVATORY	15	15	50	40	775
P-5	SINK, KITCHEN	15	15	50	40	850 TO 900
P-6	SERVICE SINK	15	15	80	40	650
P-10	LAUNDRY SINK	15	15	50	40	850
P-11	SHOWER	15	15	-	-	VALVE:1350, HEAD:1800

PIPE CONN. SIZES & FIXTURE MOUNTING HEIGHT
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

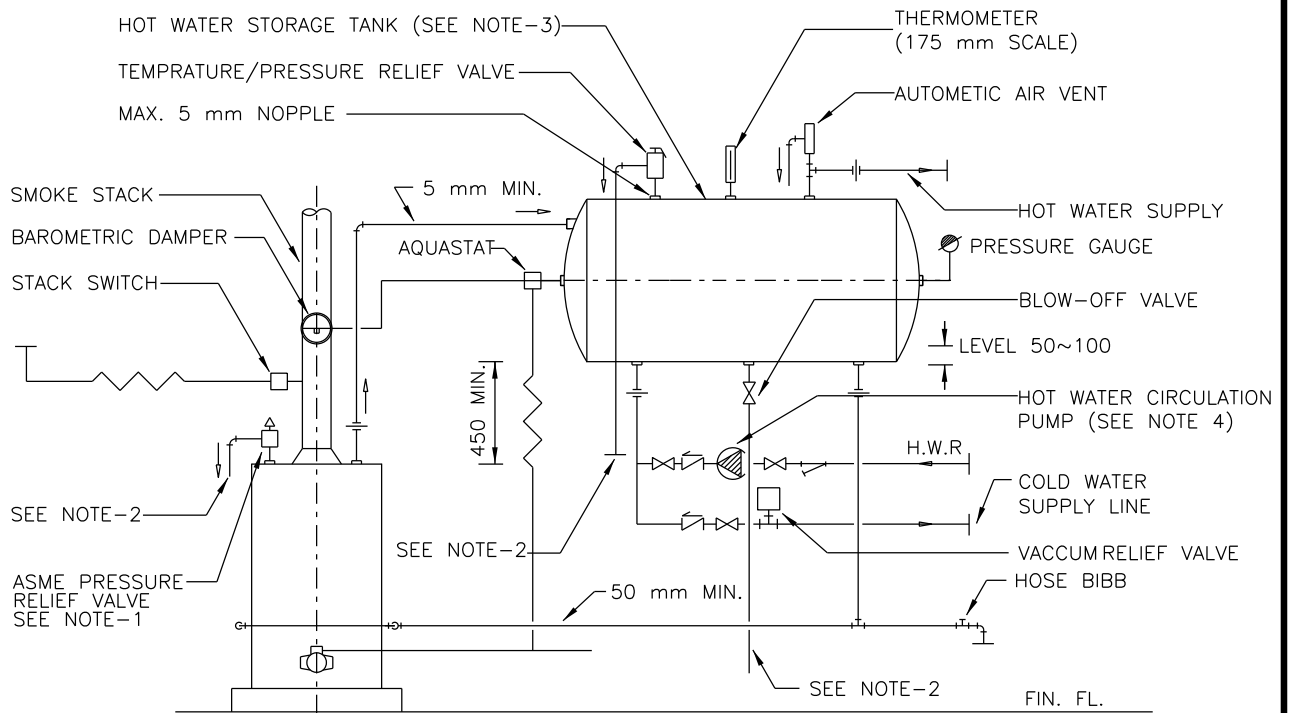
DWG NO.

TITLE

PLUMBING DETAILS - FIXTURE MOUNTING & CONNECTION

220000

M -405

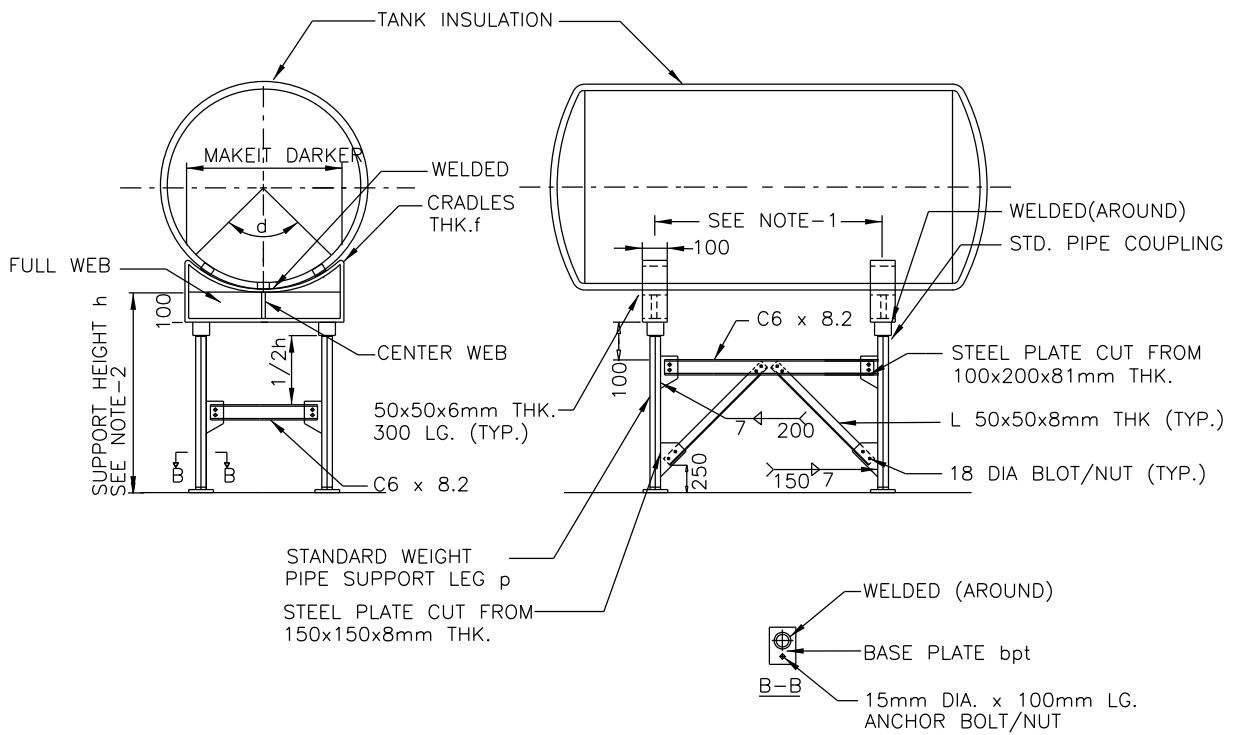


NOTES :

1. COMB. TEMPERATURE AND PRESSURE RELIEF VALVE MAY BE PROVIDED INSTEAD OF SEPARATE VALVES WHEN THE HEAT INPUT IS LESS THAN 58 KW-H OR LESS AND THE STORAGE TANK CAPACITY IS 450 LITERS OR LESS.
2. RELIEF DRAIN AND BLOW-OFF DRAIN EXTEND TO NEAREST FLOOR DRAIN.
3. HOT WATER STORAGE TANK SHALL BE GLASS LINING TYPE FOR STORAGE CAPACITIES OF 370 LITERS OR LESS AND CEMENT OR SILICEOUS LINING TYPE FOR OVER 370 LITERS CAPACITIES.
4. NO CIRCULATING PUMP AND PIPING WILL BE INSTALLED IN SMALL ONE STORY BUILDINGS, EXCEPT WHERE A HORIZONTAL RUN EXCEEDS 30 METERS IN LENGTH FOR SUCH CASES, A LOOP RETURN OF AT LEAST ONE-HALF THE SIZE OF THE HOT WATER MAIN WILL BE PROVIDED.

OIL - FIRED HOT WATER AND STORAGE TANK
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PLUMBING DETAIL - DHW HEATER & STORAGE TANK	220000	M -406



TANK DIA.	BASE PLATE bpt	CRADLES THK.t	c & p	l	d	cw	fw
600	125 x 100 x 9	8	50	400	2,000 ~ 2,250	NOT REQ'D	PART WEB
750	150 x 125 x 10	8	65	500	2,000 ~ 2,250		
900	150 x 125 x 10	8	65	580	2,000 ~ 2,250		
1,050	150 x 125 x 15	8	80	690	2,000 ~ 2,250		
1,200	150 x 125 x 15	9	80	790	2,000 ~ 2,250		
1,350	150 x 125 x 15	9	80	895	2,000 ~ 2,250	REQ'D	FULL WEB
1,500	150 x 125 x 15	10	80	995	2,000 ~ 2,250		
1,800	150 x 125 x 15	10	80	1,205	2,000 ~ 2,250		
2,100	150 x 125 x 15	10	80	1,635	2,500		
2,400	150 x 125 x 15	10	80	1,875	2,500		

(UNIT : mm)

NOTES :

- SUPPORT CRADLES(2) SHALL BE LOCATED AT APPROXIMATELY 1/ 4 POINTS OF TANK OVERALL LENGTH.
- ELEVATION BETWEEN BOTTOM OF HOT WATER STORAGE TANK AND TOP OF HOT WATER HEATER SHALL BE KEPT MIN. 123 mm UNLESS A FORCED CIRCULATING PUMP IS PROVIDED.

A HORIZONTAL TANK

TANK SUPPORTS – DOMESTIC HOT WATER
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

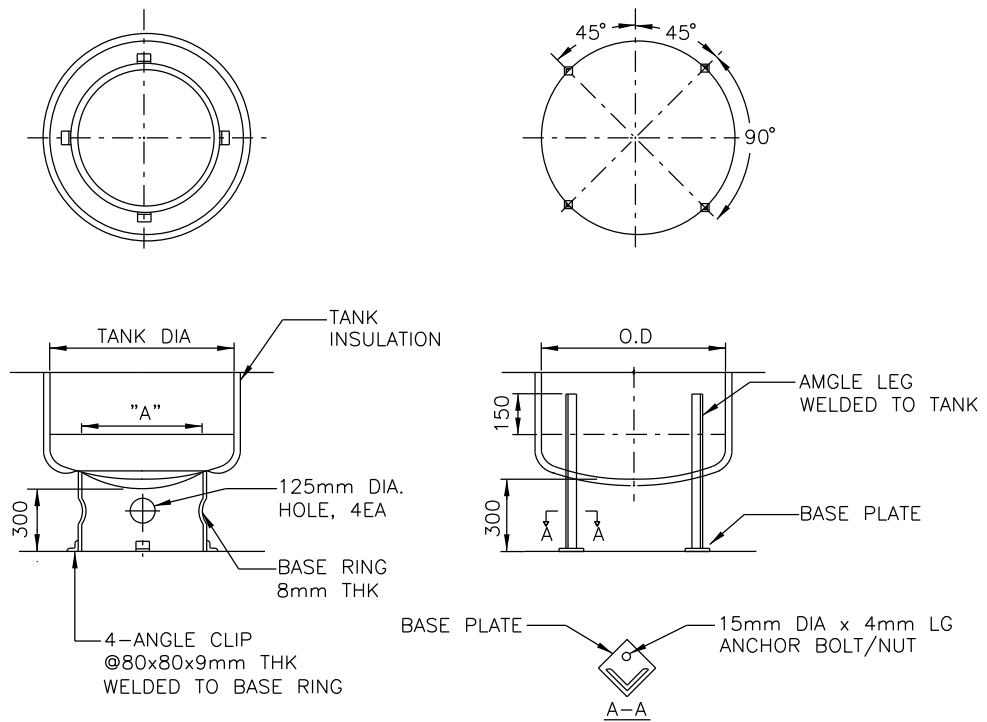
PLUMBING DETAIL - DHW TANK SUPPORT (HORIZONTAL)

OMA SPEC

220000

DWG NO.

M -407



BASE RING	
TANK DIA.	DIMENSION "A"
600	500
750	600
900~1,050	750
1,200	900
1,350	1,050
1,500	1,200
1,650	1,350
1,800	1,500
2,100	1,800
2,400	2,100

(UNIT : mm)

ANGLE LEG		
TANK DIA.	BASE PLATE	ANGLE LEG
600	100 x 100 x 9	50 x 50 x 8
750~900	125 x 125 x 10	65 x 65 x 8
1,050~1,350		80 x 80 x 10
1,500	150 x 150 x 15	100 x 100 x 15
1,800		150 x 150 x 15
2,100~2,400	200 x 200 x 15	150 x 150 x 15

(UNIT : mm)

NOTE :

BASE PLATES OF 4 LEGS ARE NOT FACTORY DRILLED FOR ANCHOR BOLTS, THEY ARE LEFT FOR FIELD DRILLING TO SUIT ACTUAL ANCHOR BOLT MEASUREMENTS.

(B) VERTICAL TANK

TANK SUPPORTS – DOMESTIC HOT WATER
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

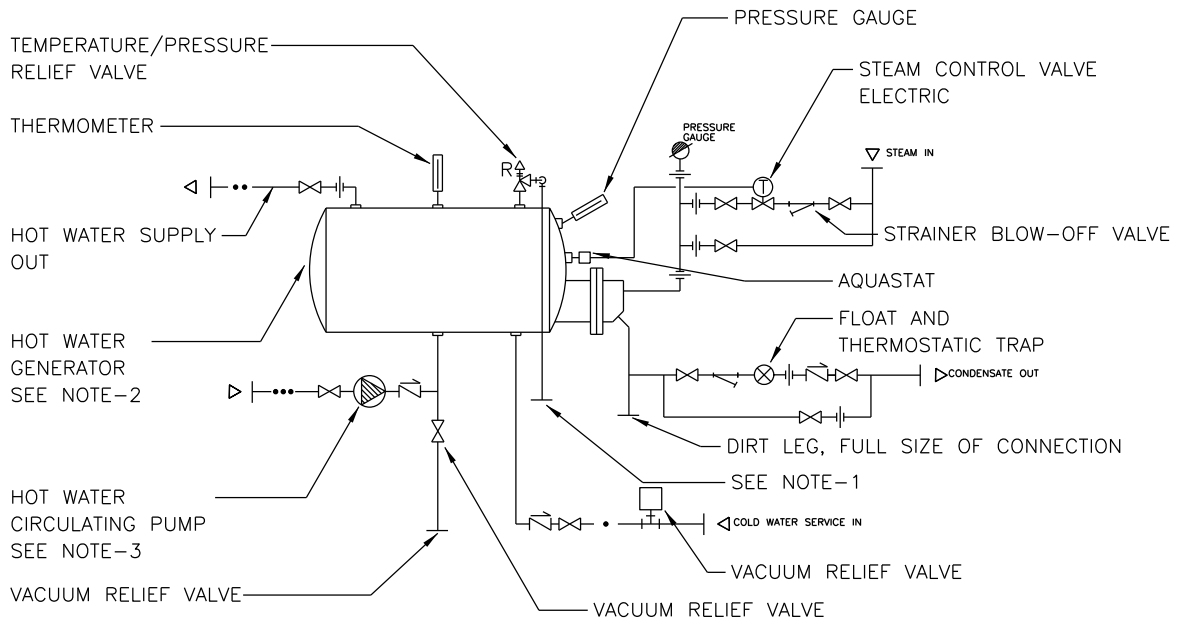
PLUMBING DETAIL - DHW TANK SUPPORT (VERTICAL)

OMA SPEC

220000

DWG NO.

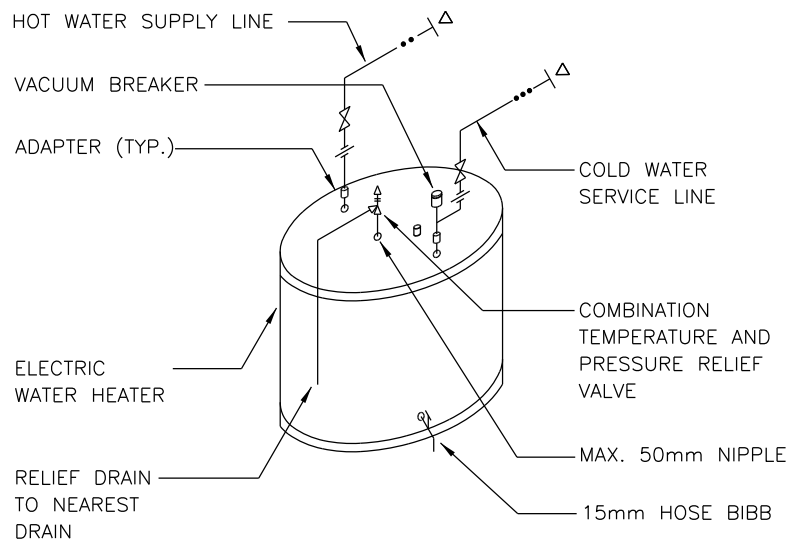
M -408



NOTES :

1. RELIEF DRAIN AND BLOW-OFF DRAIN SHALL BE EXTENDED TO NEAREST FLOOR DRAIN.
2. HOT WATER STORAGE TANK SHALL BE GLASS LINING TYPE FOR STORAGE CAPACITIES OF 370 LITERS OR LESS AND CEMENT OR SILICEOUS LINING TYPE FOR OVER 100 GALLONS CAPACITIES.
3. NO CIRCULATING PUMP AND PIPING WILL BE INSTALLED IN SMALL ONE STORY BUILDINGS EXCEPT WHERE A HORIZONTAL RUN EXCEED 30 METERS IN LENGTH FOR SUCH CASES, A LOOP RETURN OF AT LEAST ONE-HALF THE SIZE OF THE HOT WATER MAIN WILL BE PROVIDED.

(A) HOT WATER GENERATOR



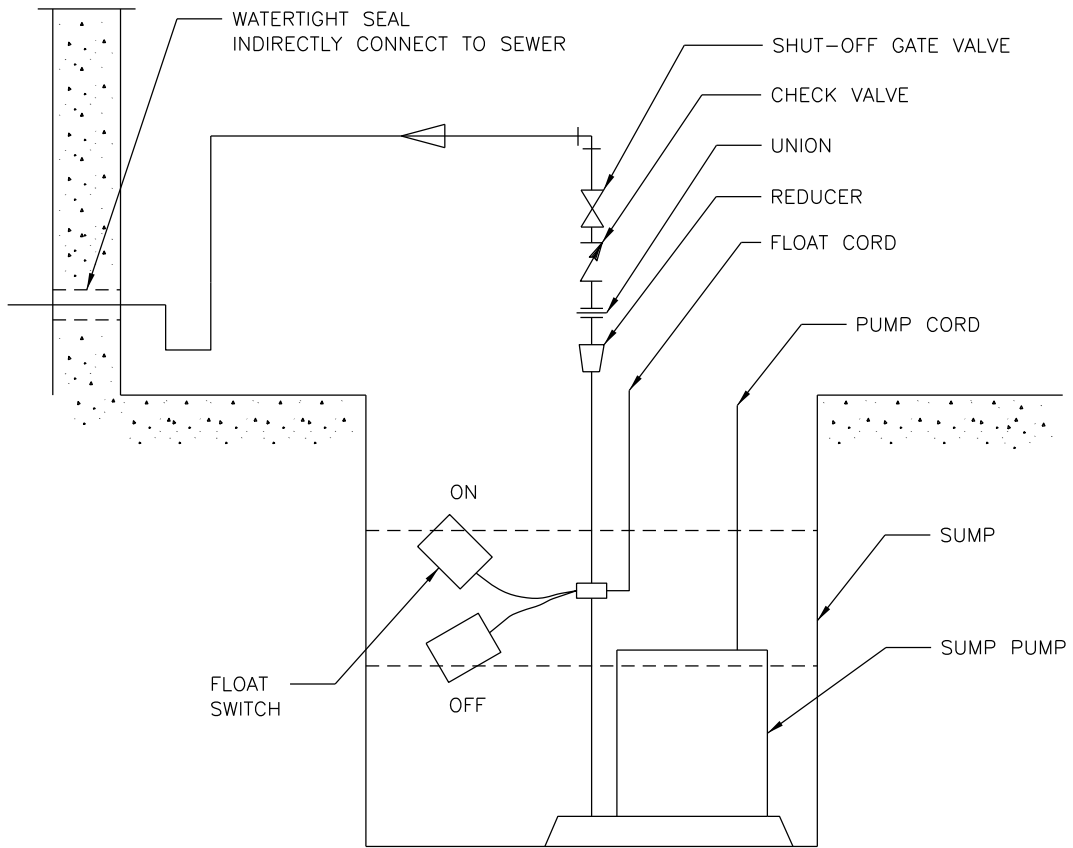
NOTES :

HEATER SHALL BE PROPPED UP MIN. 20mm CLEARANCE FROM THE FLOOR (OR PAD).

(B) ELECTRICAL WATER HEATER

HOT WATER GENERATOR & ELECTRICAL HEATER
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PLUMBING DETAIL - HOT WATER GENERATOR & ELECTRICAL WATER HEATER	220000	M -409

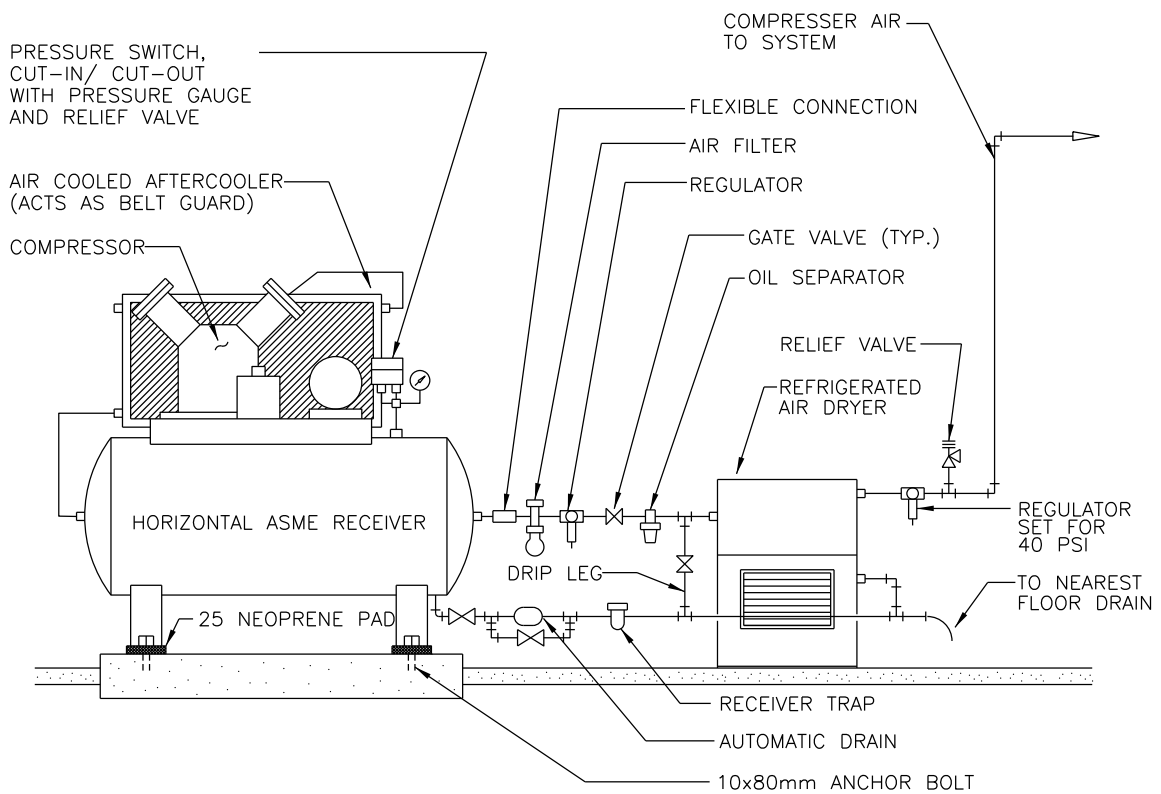


NOTES:

1. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
2. DRILL 6mm DIA. HOLE IN DISCHARGE PIPE BELOW REDUCER TO PREVENT AIR LOCKING OR CONSULT WITH MANUFACTURER FOR PROPER AIR LOCK PREVENTION.

ELEVATOR PIT SUMP PUMP DETAIL
NOT TO SCALE

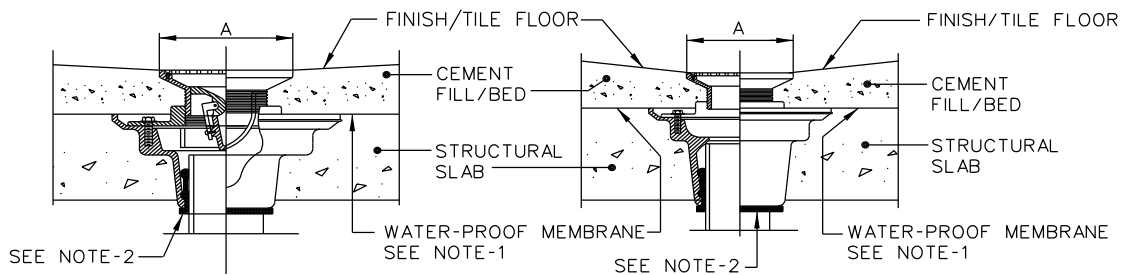
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PLUMBING DETAIL - ELEVATOR PIT SUMP PUMP DETAIL	220000	M -410



AIR COMPRESSOR DETAIL WITH AIR DRYER
NOT TO SCALE

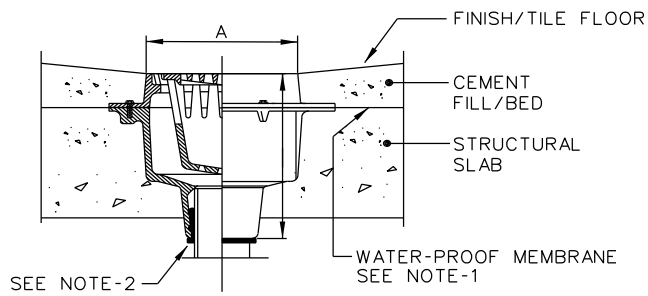
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PLUMBING DETAIL - AIR COMPRESSOR DETAIL WITH AIR DRYER	220000	M -411

REV DATE: NOV 2015



A DRAIN AND BACKWATER VALVE

B FLOOR/SHOWER DRAIN



(UNIT: mm)

OUTLET SIZE	A
50ø	125
75ø	200
100ø	250

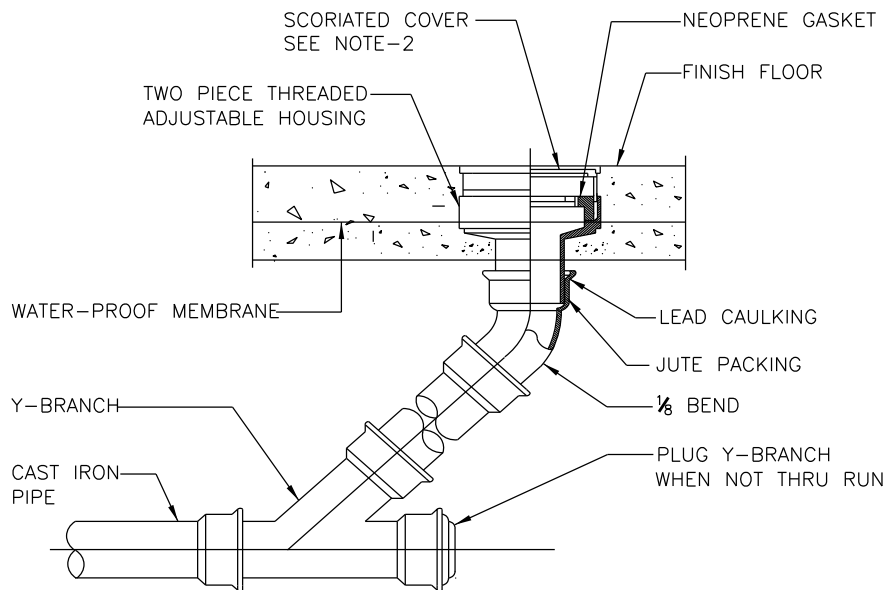
C AREA/PIT DRAIN

NOTES:

1. WATER-PROOF MEMBERANE ARE NOT REQUIRED IN SLAB ON GRADE.
2. NEOPRENE RUBBER GASKET COMPRESSION TYPE JOINT.
3. DRAINS SHALL BE CONNECTED TO CAST IRON P-TRAP.
4. DRAINS SHALL HAVE A CAST IRON BODY AND SEEPAGE PAN AND A CHROMIUM PLATED BRONZE, NICKEL BRONZE OR NICKEL BRASS STRAINER.

D R A I N S
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PLUMBING DETAIL - DRAINS	220000	M -412

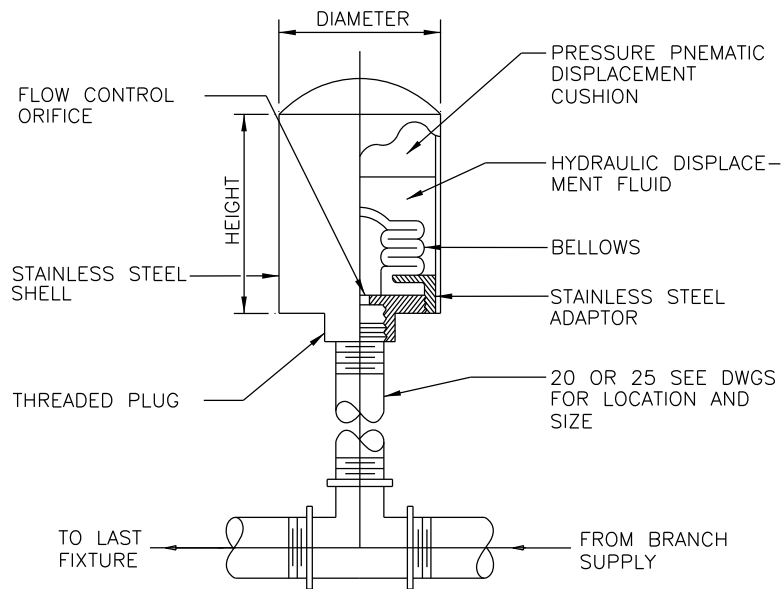


NOTES:

1. WATER-PROOF MEMBRANE IS NOT REQUIRED IN SLAB ON GRADE.
2. FLUSHING FLANGE AND CLAMP DEVICE IS REQUIRED AT WATER-PROOF MEMBRANE.
3. CHROMIUM-PLATED BRONZE, NICKEL BRONZE, NICKEL BRASS OR STAINLESS STEEL FLUSH TYPE ACCESS COVER PLATE

FLOOR CLEANOUT
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PLUMBING DETAIL - FLOOR CLEANOUT	220000	M -413



TYPE	HEIGHT (MM)	DIAMETER (MM)	FIXTURE UNIT CAPACITY
"A"	95	80	1-11
"B"	115	80	12-32
"C"	130	125	33-60

WATER HAMMER ARRESTOR
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

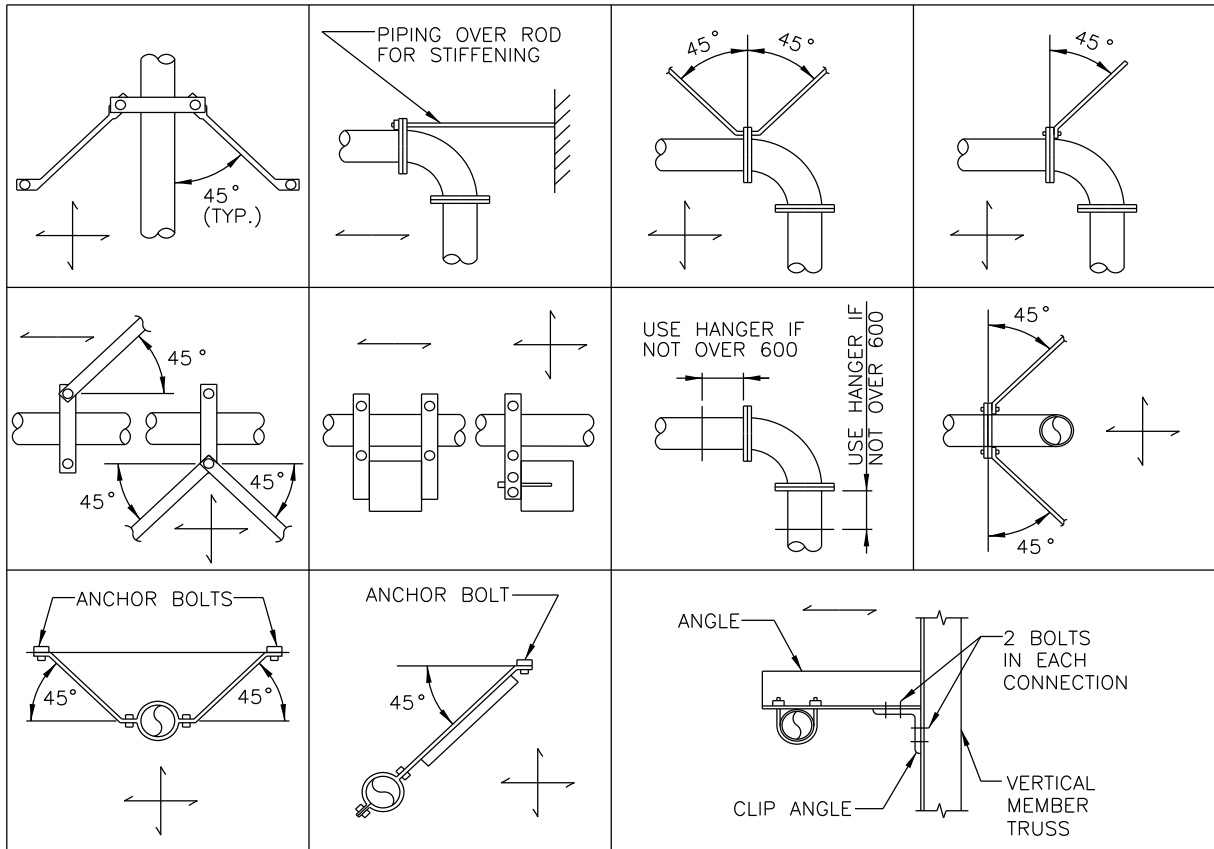
PLUMBING DETAIL - WATER HAMMER ARRESTOR

OMA SPEC

220000

DWG NO.

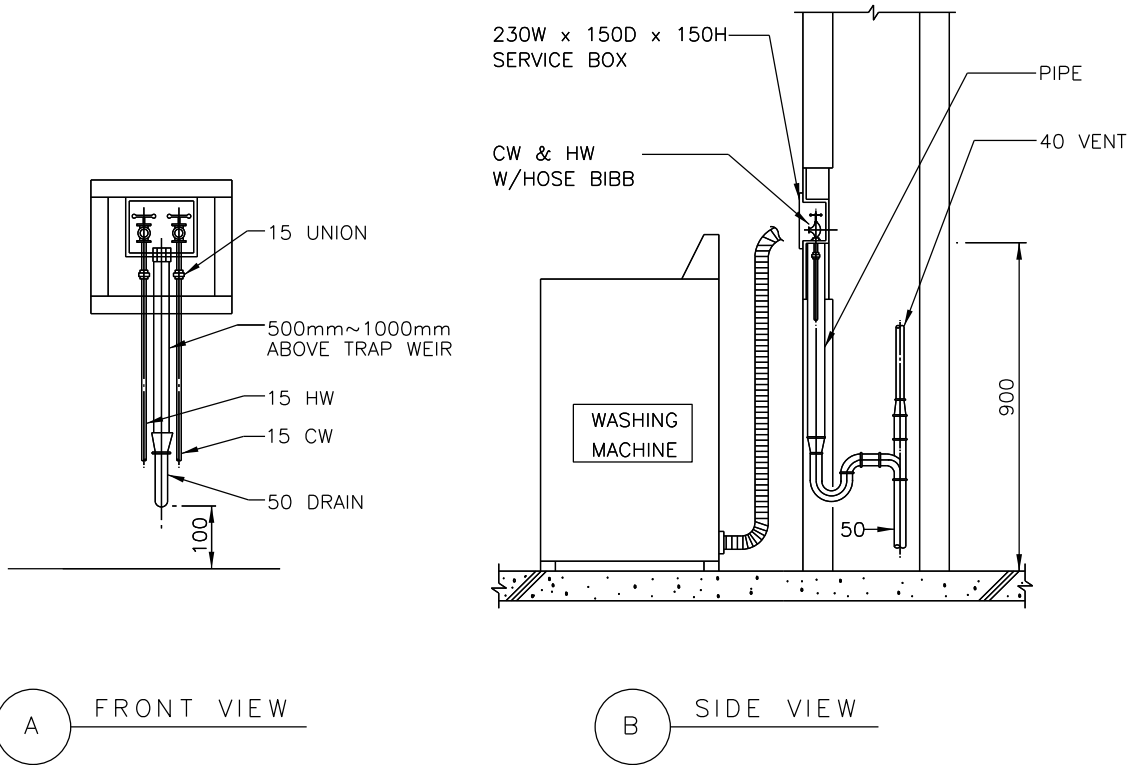
M -414



SEISMIC DETAILS FOR SWAY BRACING
NOT TO SCALE

	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PLUMBING DETAIL - SEISMIC DETAILS FOR SWAY BRACING	220000	M -415

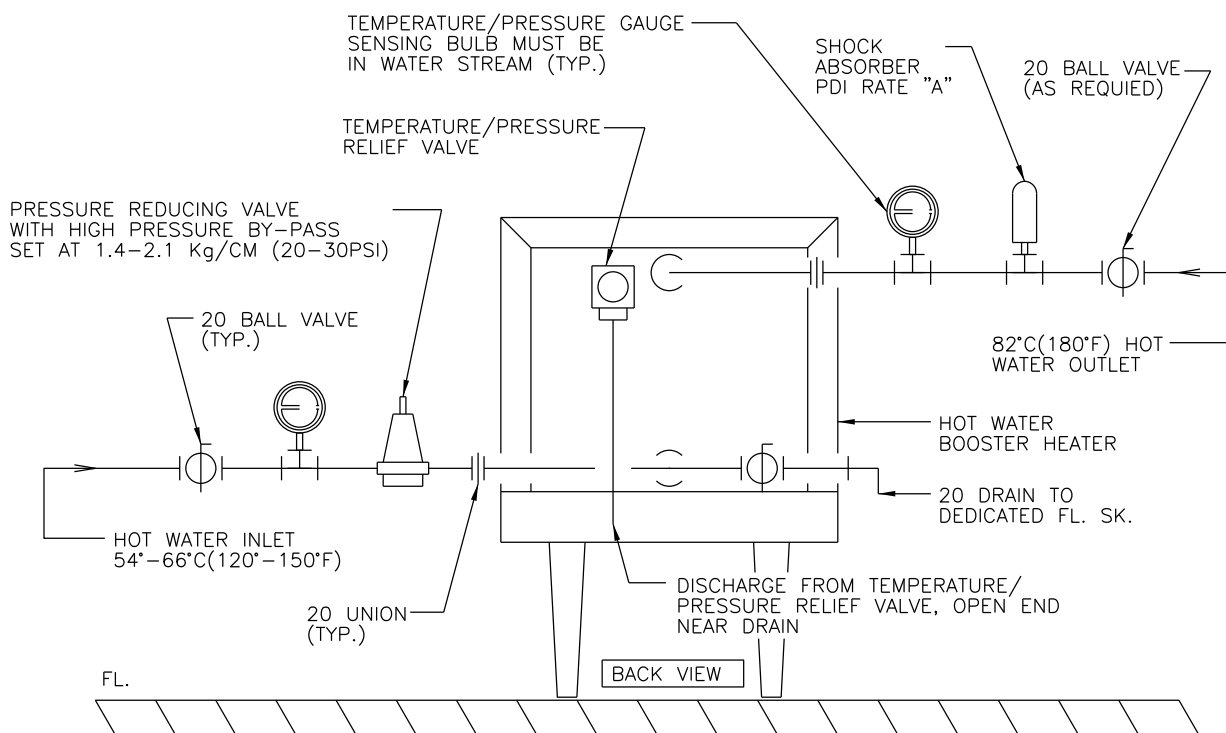
REV DATE: NOV 2015



WASHING DRAIN STAND PIPE
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PLUMBING DETAIL - WASHING DRAIN STAND PIPE	220000	M -416

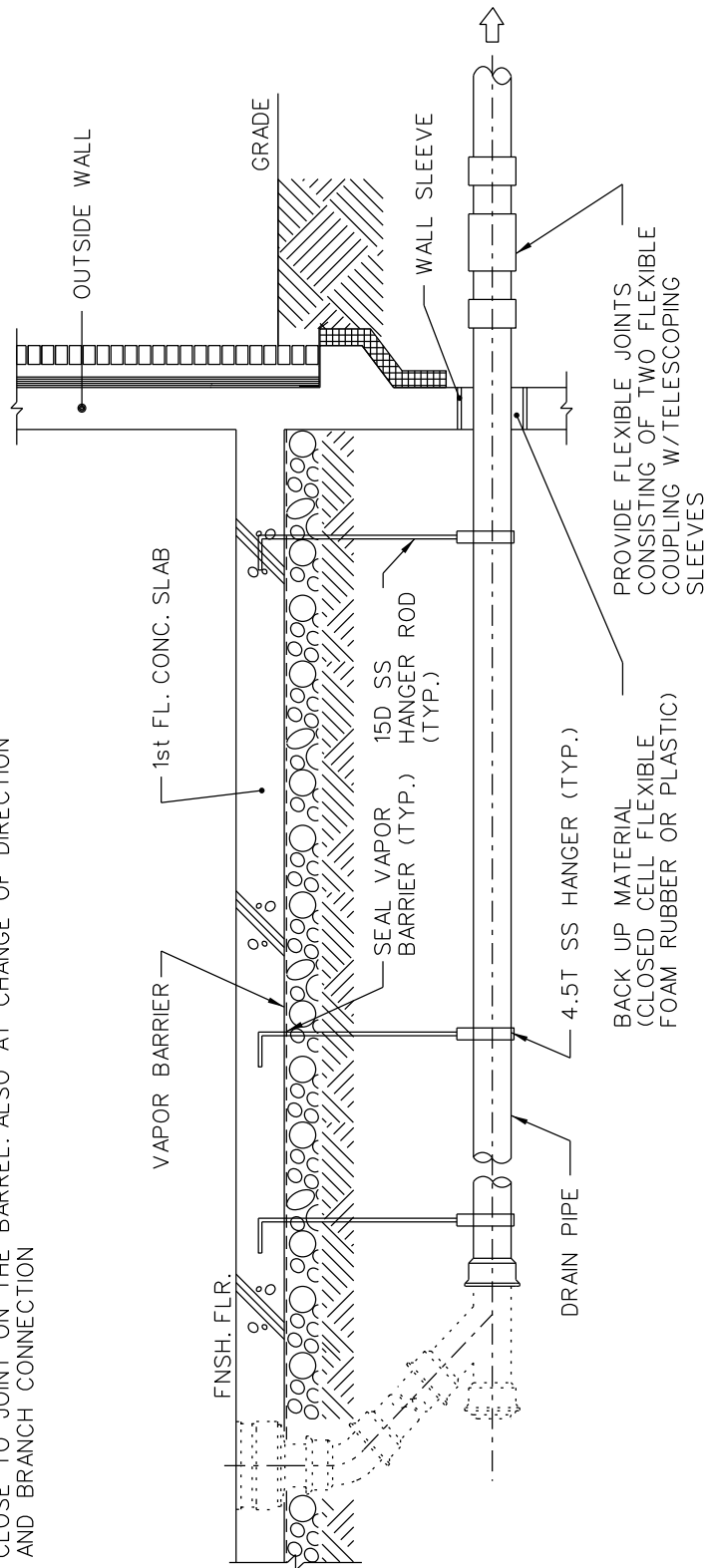
REV DATE: NOV 2015



HOT WATER BOOSTER HEATER PIPING DETAIL
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PLUMBING DETAIL - HOT WATER BOOSTER HEATER PIPING DETAIL	220000	M -417

* HANGER & SUPPORT SPACING
 3 M. MAX. SPACING; MIN. OF ONE (1) HANGER PER PIPE SECTION
 CLOSE TO JOINT ON THE BARREL. ALSO AT CHANGE OF DIRECTION
 AND BRANCH CONNECTION



SUPPORT DETAIL FOR SOIL SETTLEMENT BELOW SLAB
 NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

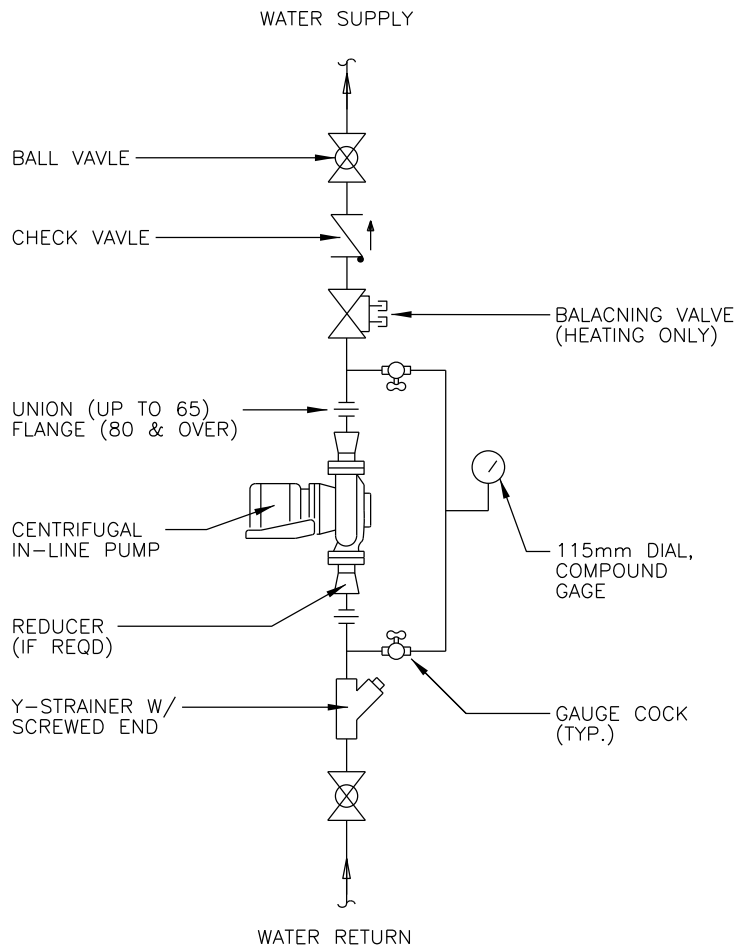
PLUMBING DETAIL - SUPPORT DETAIL FOR SETTLEMENT BELOW SLAB

OMA SPEC

220000

DWG NO.

M -418

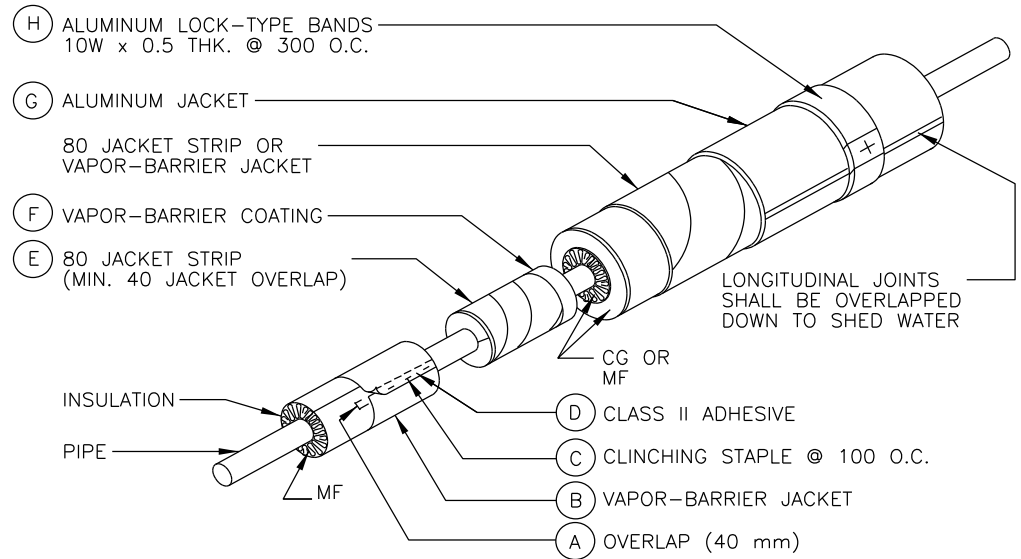


IN-LINE PUMP DETAIL

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	IN-LINE PUMP DETAIL	220000	M -901

REV DATE: NOV 2015



NOTE :

CG - CELLULAR GLASS
MF - MINERAL FIBER
SEE SPECIFICATION FOR INSULATION THICKNESS

COLD WATER PIPE LINE

1. MAKE-UP WATER
2. CHILLED WATER
3. DUAL TEMP. WATER
4. A/C CONDENSATE DRAIN
5. REFRIGERATION SUCTION

AREA ITEM	CONCEALED								EXPOSED								EXPORSED WEATHER							
	A	B	C	D	E	F	G	H	A	B	C	D	E	F	G	H	A	B	C	D	E	F	G	H
PIPING																								
COLD PIPE LINE	•	•	•	•	•				•	•	•	•	•	•			•	•	•	•	•	•	•	•
HOT PIPE LINE	•	•	•	•	•				•	•	•	•	•	•			•	•	•	•	•	•	•	•

HOT PIPE LINE

1. STEAM & CONDENSATE
2. HOT WATER HEATING
3. HEATED OIL PIPE LINE

PIPE INSULATION DETIAL

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PIPE INSULATION DETAIL	230700	M -902

ELECTRICAL STANDARD DETAILS

30 NOVEMBER 2015

DEPARTMENT OF THE ARMY
INSTALLATION MANAGEMENT COMMAND

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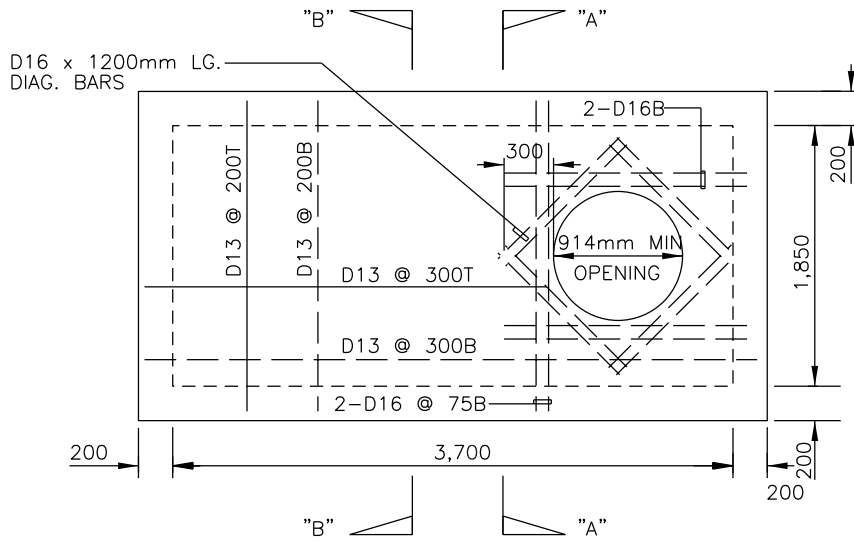
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FIRE DETECTION

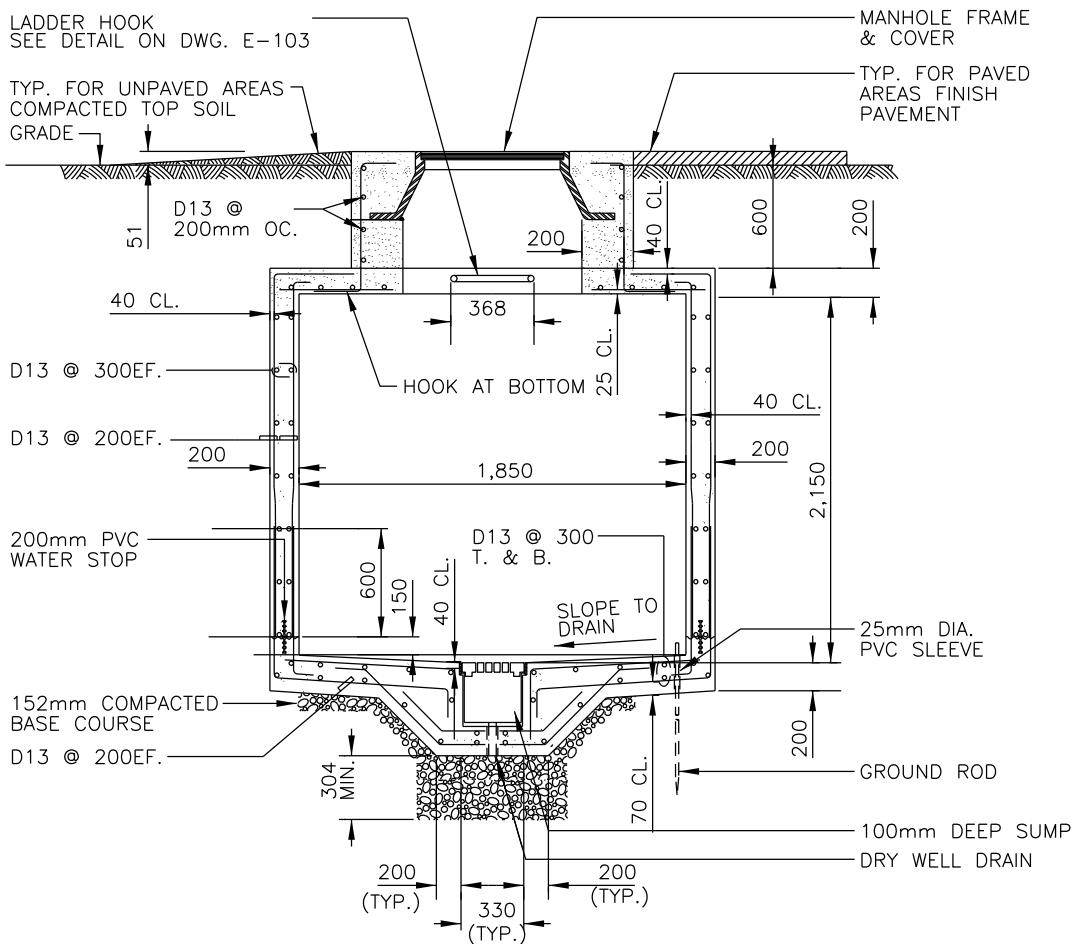
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AIR FIELD

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A PLAN OF TOP



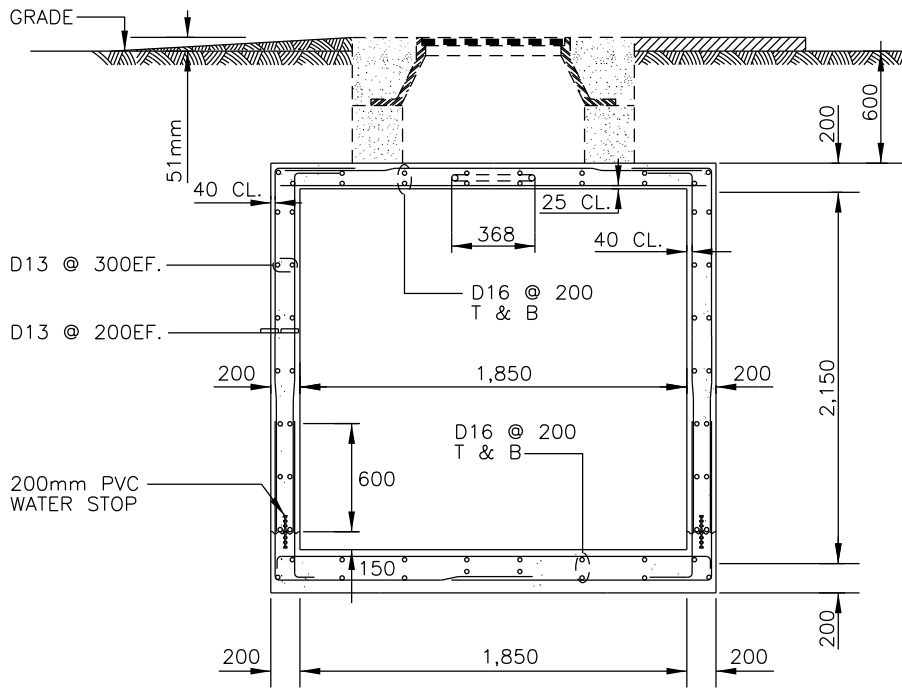
B SECTION A-A

TELECOMMUNICATION MANHOLE & APPURTENANCE DETAIL - 1

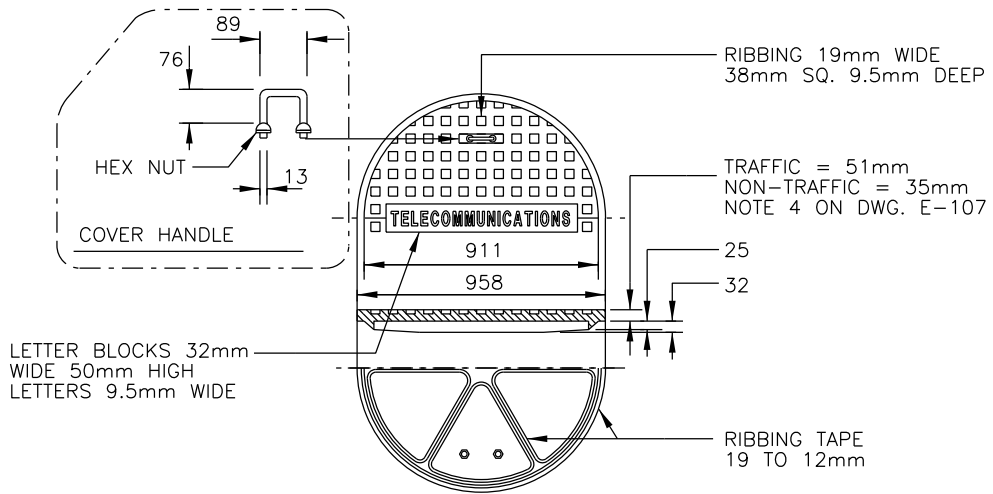
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TELECOMMUNICATION MANHOLE & APPURTENANCE DETAIL - 1	337002.0010	E - 101

REV DATE: NOV 2015



C SECTION B-B

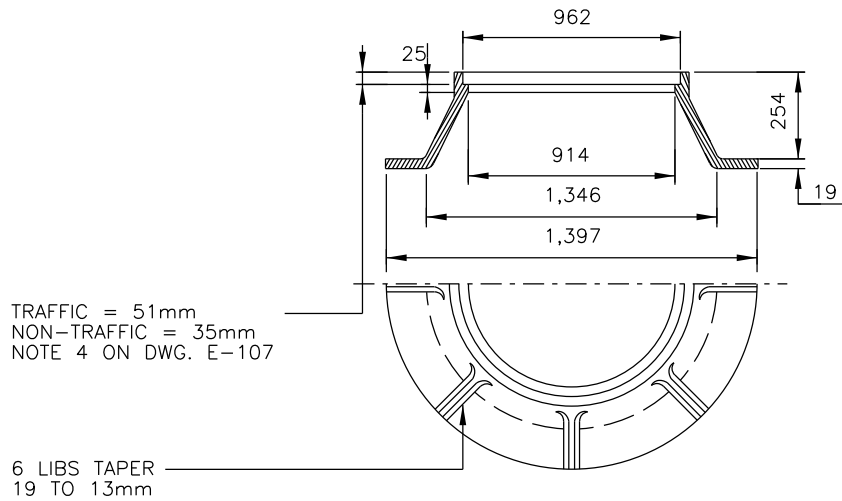


D CAST IRON COVER

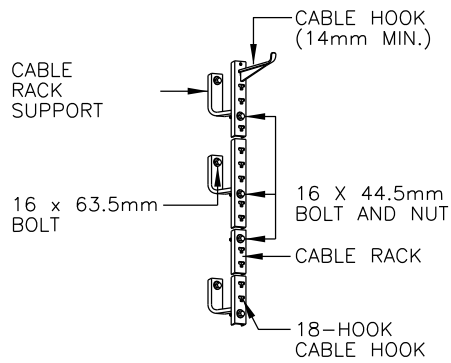
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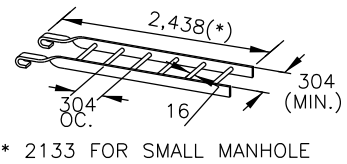
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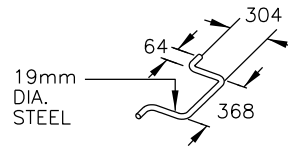
(E) FRAME



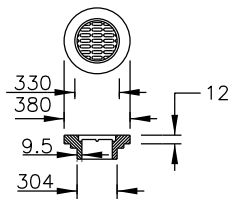
(G) CABLE RACK



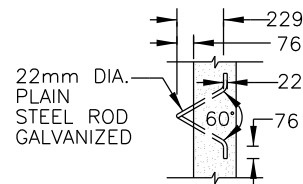
(F) HOOKED MH LADDER



(H) LADDER HOOK



(I) SUMP FRAME & COVER



(J) PULLING-IN IRON

TELECOMMUNICATION MANHOLE & APPURTENANCE DETAIL - 3
NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

OMA SPEC

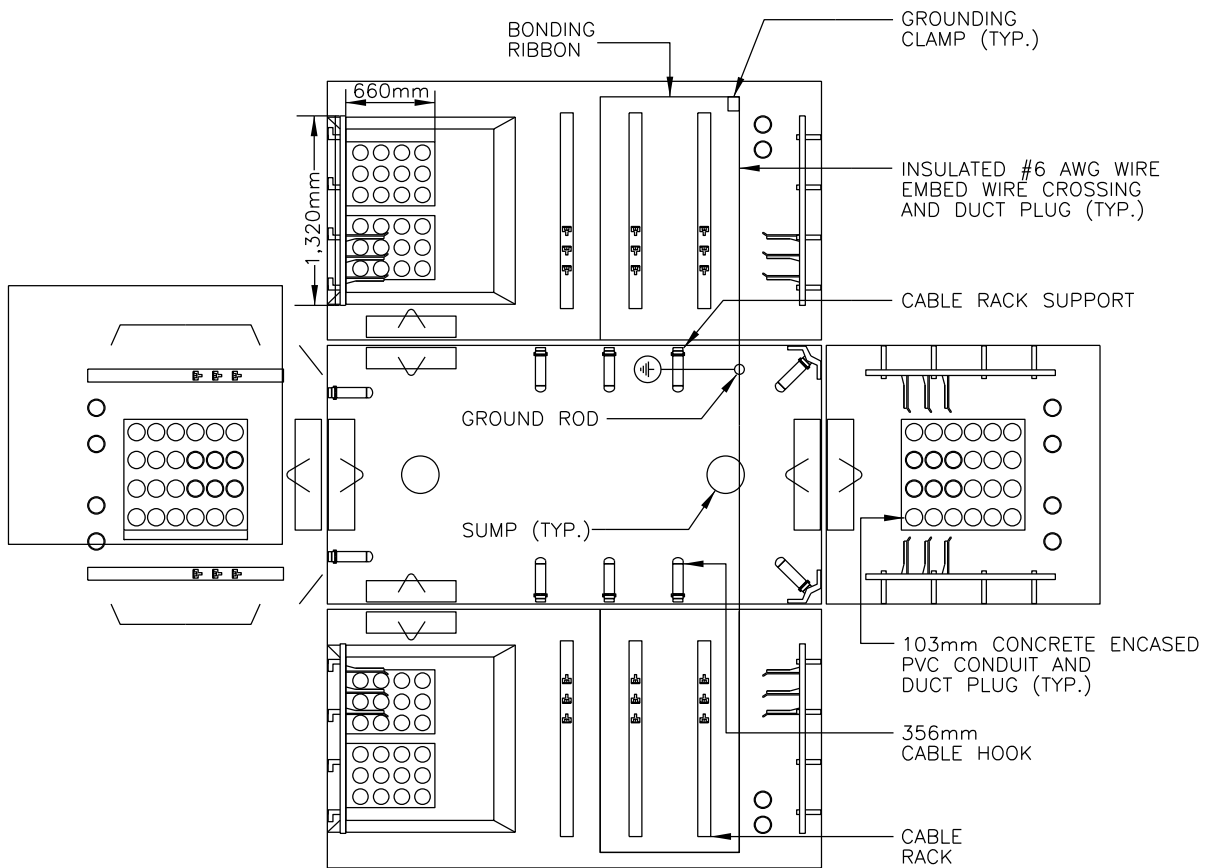
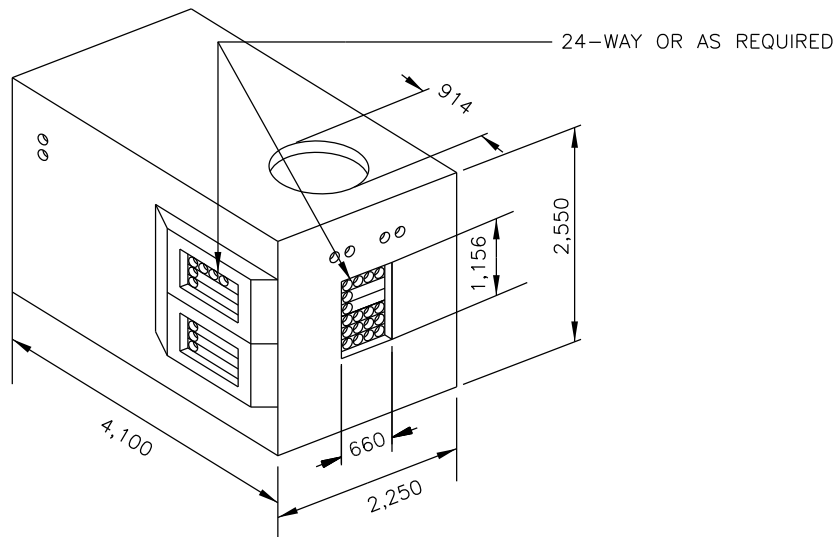
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TITLE

TELECOMMUNICATION HANDHOLE & APPURTENANCE
DETAIL - 3

337002.0010

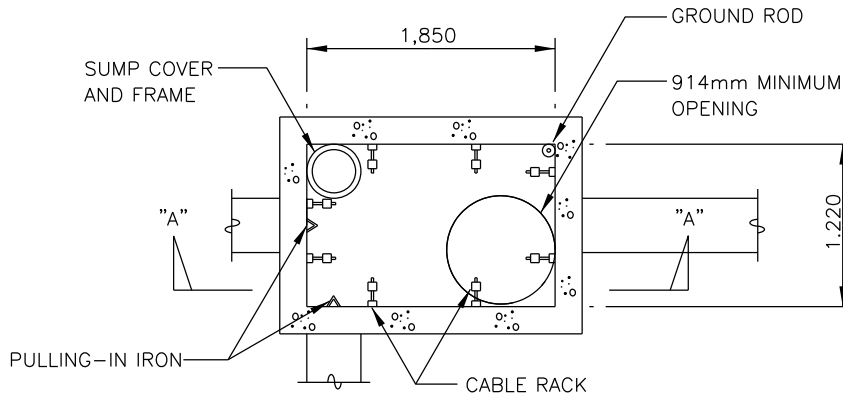
E - 103



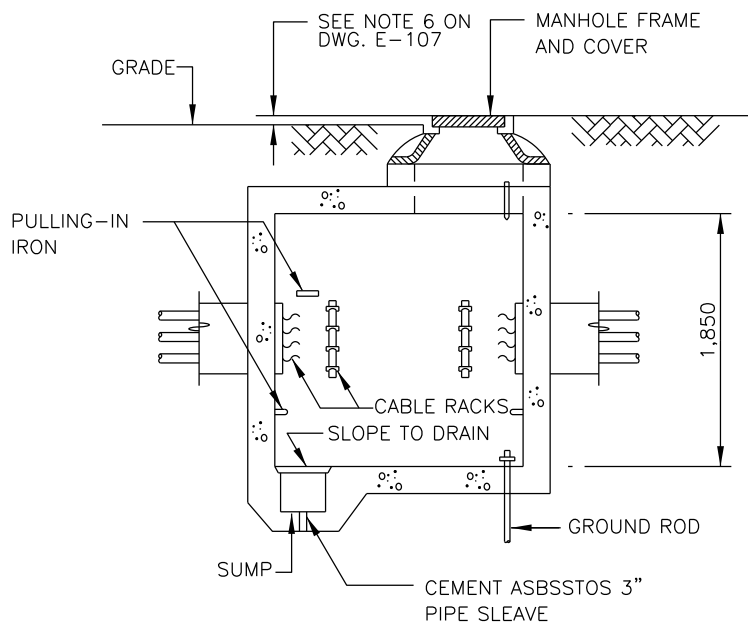
TELECOMMUNICATION MANHOLE & APPURTENANCE DETAIL - 4

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TELECOMMUNICATION MANHOLE & APPURTENANCE DETAIL - 4	337002.0010	E - 104



* FOR SMALL MANHOLE



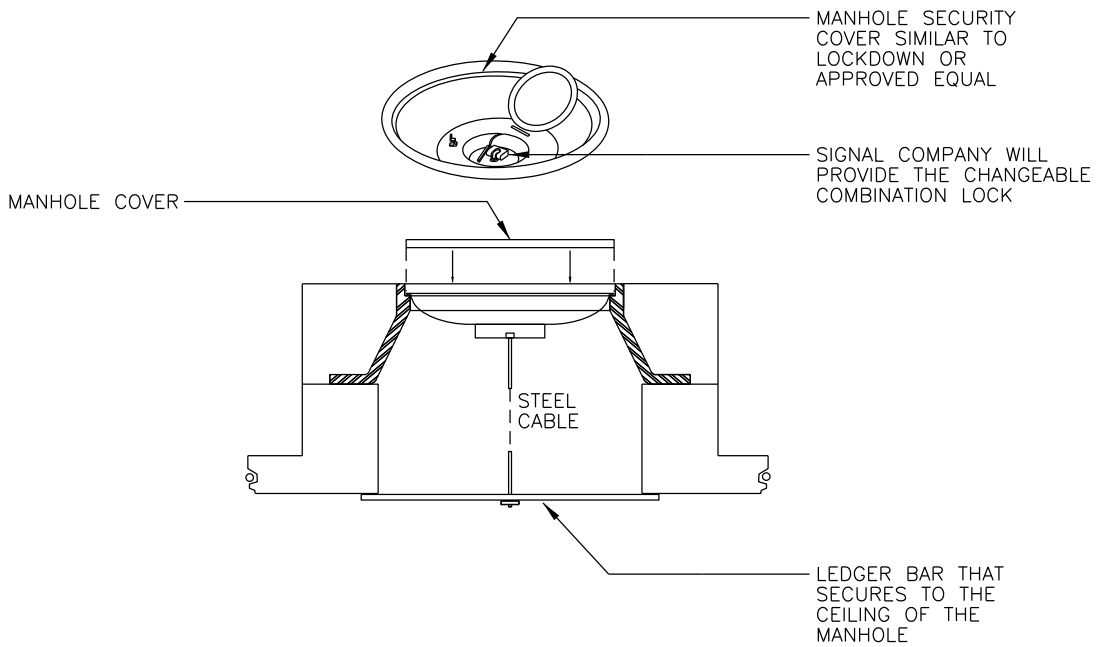
* FOR SMALL MANHOLE



TELECOMMUNICATION MANHOLE & APPURTENANCE DETAIL - 5

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TELECOMMUNICATION MANHOLE & APPURTENANCE DETAIL - 5	337002.0010	E - 105



NOTE:

1. BLOCK INFLOW OF SURFACE WATER & OTHER CONTAMINANTS
2. CORROSION-RESISTANT 12 GAUGE STAINLESS STEEL
3. LESS THAN 18kg

TELECOMMUNICATION MANHOLE LOCKABLE
SECURITY COVER DETAIL AND NOTES

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TELECOMMUNICATION MANHOLE LOCKABLE SECURITY COVER DETAIL AND NOTES	337002.0010	E - 106

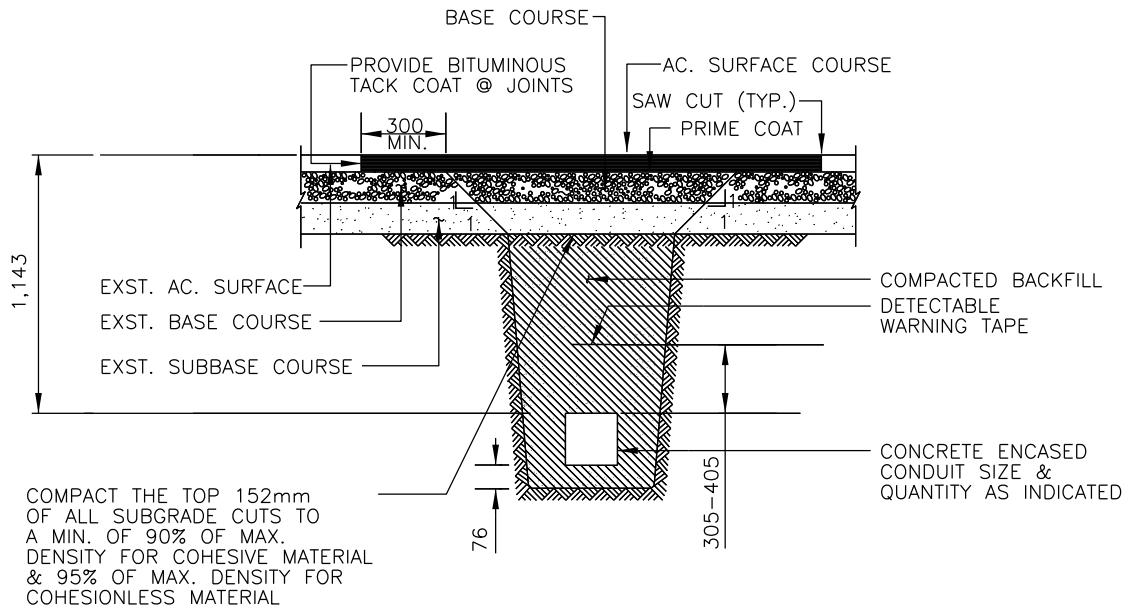
REV DATE: NOV 2015

1. MANHOLE FRAME SHALL BE OF CAST IRON IN ACCORDANCE WITH FEDERAL SPECIFICATIONS QQ-1-652 & OF THE SIZE INDICATED ON THIS DRAWING.
2. MANHOLE COVER SHALL BE CAST IRON OR PRECAST CONCRETE STEEL REINFORCED AS REQUIRED ON CONTRACT DRAWINGS.
3. A MINIMUM OF FIVE CABLE RACKS, EACH CONTAINING AT LEAST 47 HOOK SPACES MOUNTED VERTICALLY SHALL BE PROVIDED ON EACH LONG WALL AND SPACE 838mm (33") APART CENTERED ON THE WALLS. TWO OF THE CABLE RACKS SHALL BE INSTALLED FLUSH TO THE WALL AND THREE WITH STANDOFFS TO CREATE SPLICE BAYS. END WALL MANHOLE RACKS SHALL BE PROVIDED AT THE T-END OF MULTI-DIRECTIONAL MANHOLES. CORNER RACKS SHALL BE PROVIDED AT THE IN-LINE END OF THE MANHOLE. OFFSET-CABLE RACKS SHALL SET OUT FROM THE WALL WITH MINIMUM OF THREE (3) INCHES (80mm). EACH CABLE RACK SHALL BE EQUIPPED WITH TWO CABLEHOOKS (MINIMUM LENGTH: 190mm). RACKS SHALL BE HOT DIP GALVANIZED & INSTALLED BY CONTRACTOR AS SHOWN ON THE DRAWING & CONTRACTOR SHALL FURNISH 6 EACH 356mm (14") SIZE OF WELDED STEEL SUPPORTS PER ONE CABLE RACK.
4. IN UNPAVED AREAS, THE TOP OF MANHOLE COVERS SHALL BE APPROXIMATELY 12.7mm (1/2") ABOVE THE FINISHED GRADE. IN PAVED AREAS THE TOP OF MANHOLE COVERS SHALL BE FLUSH WITH THE FINISHED SURFACE OF THE PAVEMENT.
5. LOCATION & QUANTITY OF DUCTS STUBS SHALL BE IN ACCORDANCE WITH THE CONTRACT DRAWING.
6. EXPOSED FACES INCLUDING TOP OF MANHOLES PROJECTION OUT OF SLOPES SHALL BE GROUND SMOOTH WITH CARBORUNDUM STONE.
7. ALL EXPOSED EDGES OF MANHOLES TO BE CHAMFERED 19mm (3/4") INCHES.
8. CABLE PULL-IN IRON SHALL BE INSTALLED ON THE OPPOSITE EACH MAIN CONDUIT ENTRANCE LOCATION, 3-1/2 TO 9 INCHES (90-230mm) FROM THE FLOOR OF THE MANHOLE AND IN LINE WITH THE CONDUIT ENTRANCE. THE PULLING-IN IRONS SHALL BE PLACED AND EMBEDDED DURING THE CONSTRUCTION OF THE MANHOLE WALL.
9. ONE PORTABLE MANHOLE LADDER SHALL BE FURNISHED BY THE CONTRACTOR FOR EACH MANHOLE & THE LADDER SHALL BE 2.4 METERS (8'-0") IN LENGTH & ONE LADDER HOOK SHALL BE INSTALLED BY THE CONTRACTOR AS SHOWN ON THE DRAWING.
10. ALL DUCT STUB OUTS FOR FUTURE USE SHALL BE CAPPED IN APPROVED MANNER.
11. DRY WELL DRAIN SHALL BE OMITTED WHEN THE BOTTOM OF MANHOLE IS BELOW THE WATER TABLE. SUMP & GRATING WILL BE REQUIRED IN EACH MANHOLE REGARDLESS OF WATER TABLE.
12. WHERE REQUIRED, DRAIN TO DAYLIGHT SHALL BE PROVIDED AS INDICATED ON THE CONTRACT DRAWINGS OR DIRECTED BY THE CONTRACTING OFFICER.
13. CONDUITS SHALL TERMINATE IN APPROVED END BELLS WHERE DUCT LINE ENTER MANHOLES.
14. DURING CONSTRUCTION & AFTER THE DUCT LINES ARE COMPLETED, THE ENDS OF THE CONDUITS SHALL BE PLUGGED IN AN APPROVED MANNER.
15. BONDING RIBBON IS PLACED AROUND THE UPPER CIRCUMFERENCE OF THE MANHOLE & ATTACHED TO ALL METAL RACKING. CONNECT BONDING RIBBON TO THE GROUND ROD WITH INSULATED #6 AWG GREEN WIRE.
16. THE STRENGTH OF CONCRETE USED FOR MANHOLES SHALL BE 4.000 PSI.
17. TELECOMMUNICATIONS MANHOLE COVERS SHALL BE PROVIDED WITH COMBINATION LOCK.
18. PROVIDE TELECOMMUNICATION TRACER WIRE PER DUCT BANK. INSTALL THE TRACER WIRE AS CENTRICALLY AS POSSIBLE IN THE TOP CONDUIT FORMATION AND IN FABRIC-MESH INNERDUCT.
19. ALL NEWLY INSTALLED CONDUITS SHALL BE ROD AND MANDRELLED. CABLE PULLING LINES SHALL BE PROVIDED IN ALL NEWLY INSTALLED CONDUITS.

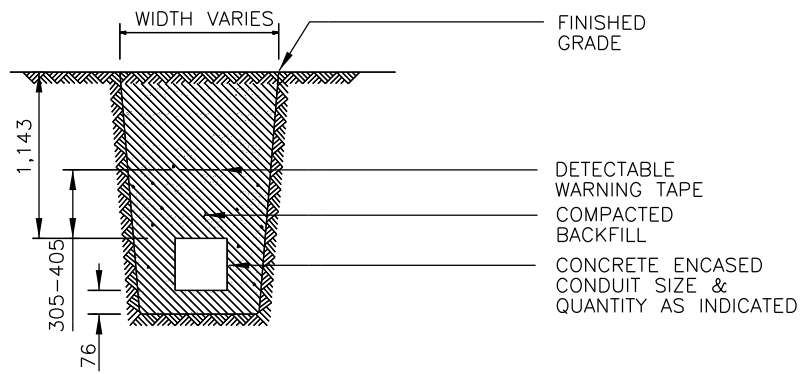
NOTES FOR TELECOMMUNICATION MANHOLE & APPURTENANCES

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	NOTES FOR TELECOMMUNICATION MANHOLE & APPURTENANCES	337002.0010	E - 107



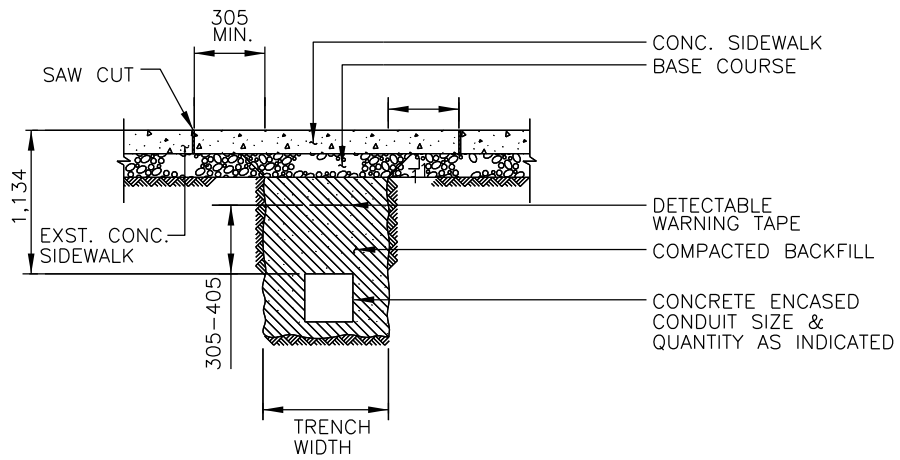
A DUCT SECTION (TRAFFIC AREA)



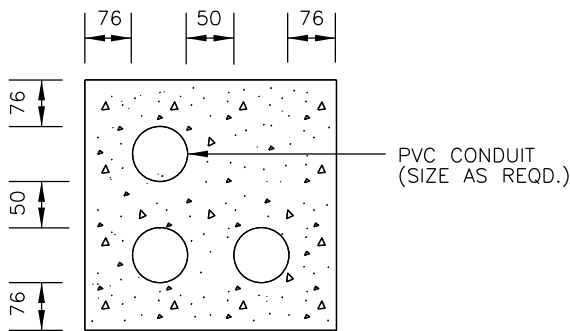
B DUCT SECTION (NON TRAFFIC AREA)

TELEPHONE DUCT DETAIL - 1
NOT TO SCALE

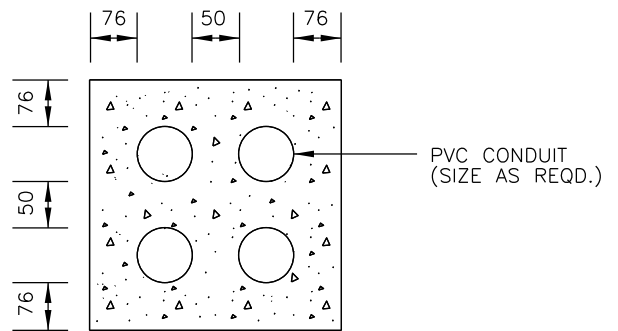
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	TITLE	TELEPHONE DUCT DETAIL - 1	337002.0010	E - 108



C DUCT SECTION (CONCRETE SIDEWALK)



D 3-WAY DUCT



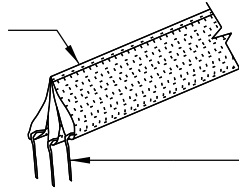
E 4-WAY DUCT

TELEPHONE DUCT DETAIL - 2

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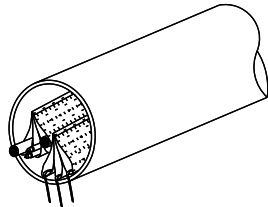
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	TITLE	TELEPHONE DUCT DETAIL - 2	337002.0010	E - 109

PROVIDE CELLS THAT ARE CONNECTED ALONG THE ENTIRE LENGTH WITH A COLOR CODED STITCH



TAPE SHALL BE COLOR CODED & MARKED FOR FOOTAGE

APPROX. 76mm x 3 CELL FABRIC MESH INNERDUCT W/ 3 FLEXIBLE CABLEWAYS. MAX. CABLE DIAMETER PER CELL IS 27mm (ONE INCH).



6X--FABRIC MESH INNERDUCT IN 103mm CONDUIT



9X--FABRIC MESH INNERDUCT 9 RACEWAYS TRIPLE PACK IN 103mm CONDUIT

F FABRIC MESH DETAIL

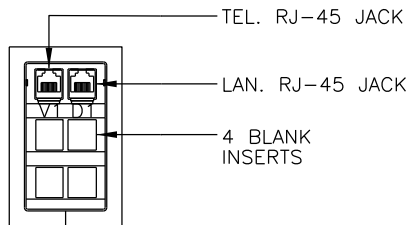
NOTE:

1. WARNING TAPE SHALL BE POLYETHYLENE (PE) PLASTIC TAPE, A MINIMUM OF 150mm (6 INCHES), IAW THE APWA UNIFORM COLOR CODE. ORANGE TAPE FOR COMMUNICATION, ALARM OR SIGNAL CABLES OR CONDUITS AND IMPRINTED IN WORDS: "WARNING -TELECOMMUNICATION CABLE BELOW" AT NOT MORE THAN 1.2 METERS (48 INCHES) INTERVALS.
2. PROVIDE FOIL BACKED DETECTABLE WARNING TAPE.
3. DETECTABLE WARNING TAPE SHALL BE INSTALLED AT A MINIMUM OF 305mm (12 INCHES) TO 405mm (18 INCHES) ABOVE ALL NEW NON-METALLIC CONDUIT FORMATION AND DB CABLE INSTALLATIONS, AND IT SHALL NOT EXCEED THE MANUFACTURER'S RECOMMENDED DEPTH BELOW GRADE. THE TAPE SHALL BE PLACED AT A DEPTH OF NO LESS THAN 305mm (12 INCHES) BELOW SURFACE GRADE.
4. PROVIDE TELECOMMUNICATION UNDERGROUND CONDUITS IN ACCORDANCE WITH THE TECHNICAL CRITERIA FOR THE INSTALLATION INFORMATION INFRASTRUCTURE ARCHITECTURE (I3A), FEBRUARY 2010.
5. PROVIDE INTERLOCKING PLASTIC SPACERS BETWEEN CONDUITS.
6. CONDUIT FORMATIONS SHALL PERMIT STANDARD CABLE RACKING WITHOUT CHANGING THE CONDUIT FORMATION AS IT ENTERS THE MANHOLE. IF THE TOTAL NUMBER OF DUCTS IS SIGNIFICANTLY LESS THAN THE CAPACITY OF THE MANHOLE, THE DUCTS SHALL ENTER IN THE LOWER PORTION OF THE KNOCKOUT SLOT TO SIMPLIFY FUTURE CONDUIT ADDITIONS.
7. ALL NEWLY INSTALLED CONDUITS SHALL BE MANDRELLED. CABLE PULLING LINES SHALL BE PROVIDED IN ALL NEWLY INSTALLED CONDUITS.
8. THE LARGEST DIAMETER COPPER CABLES SHALL BE PLACED IN THE LOWEST VACANT DUCT.
9. INNERDUCTS AND FIBER OPTIC CABLES SHALL BE PLACED IN THE UPPER EMPTY DUCTS.
10. CONCRETE USED TO ENCASE CONDUITS SHALL BE A MINIMUM COMPRESSIVE STRENGTH OF 20,700 kPa (3,000 PSI).
11. PROVIDE TELECOMMUNICATION TRACER WIRE PER DUCT BANK. INSTALL THE TRACER WIRE AS CENTRICALLY AS POSSIBLE IN THE TOP CONDUIT FORMATION AND IN FABRIC-MESH INNERDUCT.

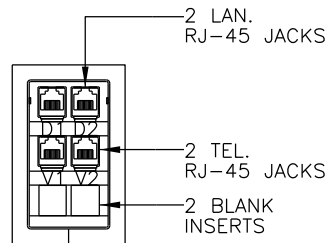
TELEPHONE DUCT DETAIL - 3

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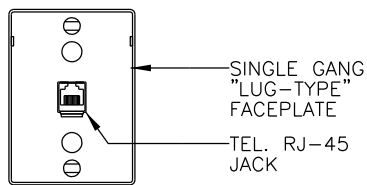
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	TITLE	TELEPHONE DUCT DETAIL - 3	338200	E - 110



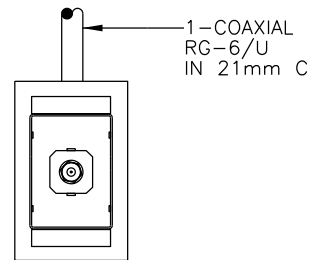
TEL./LAN. OUTLETS



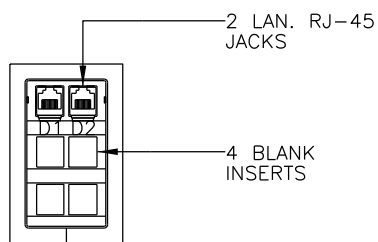
2-TEL./2-LAN. OUTLETS



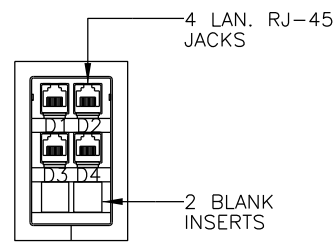
WALL PHONE OUTLET



1-F TYPE CONNECTOR WITH COAXIAL CABLE



2-LAN. OUTLETS



4 LAN. OUTLETS

TELEPHONE AND CATV OUTLET DETAIL

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

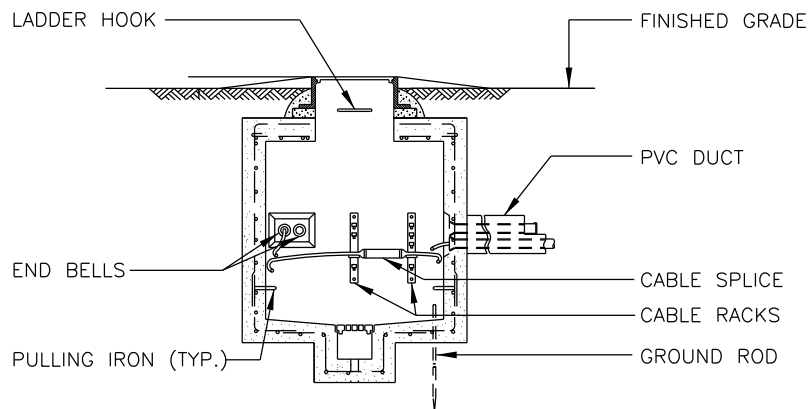
TELEPHONE AND CATV OUTLET DETAIL

OMA SPEC

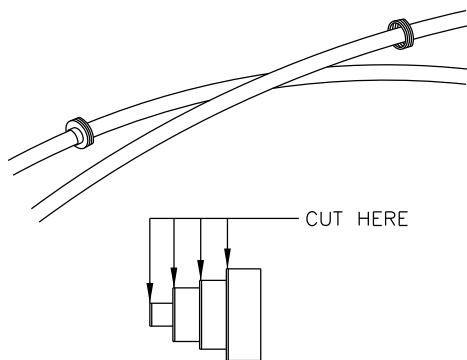
271000

DWG NO.

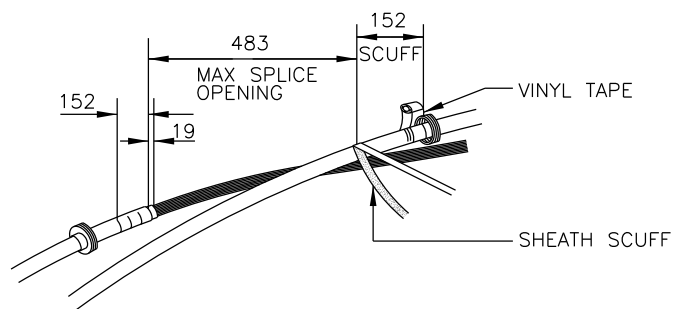
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A TELEPHONE MANHOLE FOR SPLICE



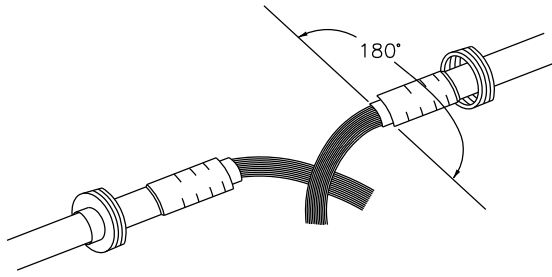
A 1 END CAP INSTALLATION
CABLE CUT



A 2 SINGLE SHEATH CABLE

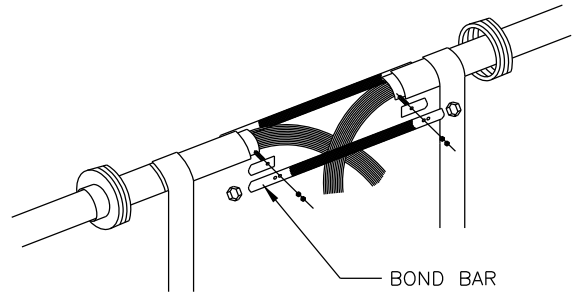
TELEPHONE CABLE SPLICING DETAIL - 1
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TELEPHONE CABLE SPLICING DETAIL - 1	338200	E - 112



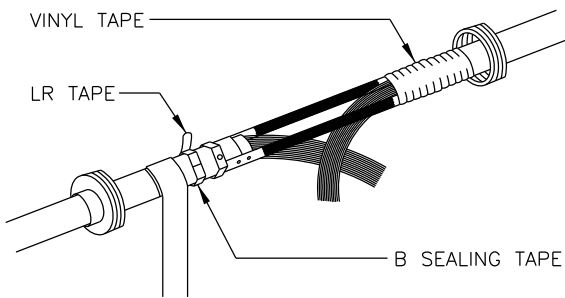
A 3

INSTALLATION OF SHIELD CONNECTOR (SINGLE SHEATH CABLE)



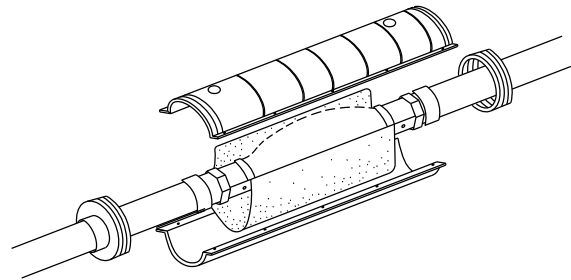
A 4

INSTALLATION OF BOND BARS



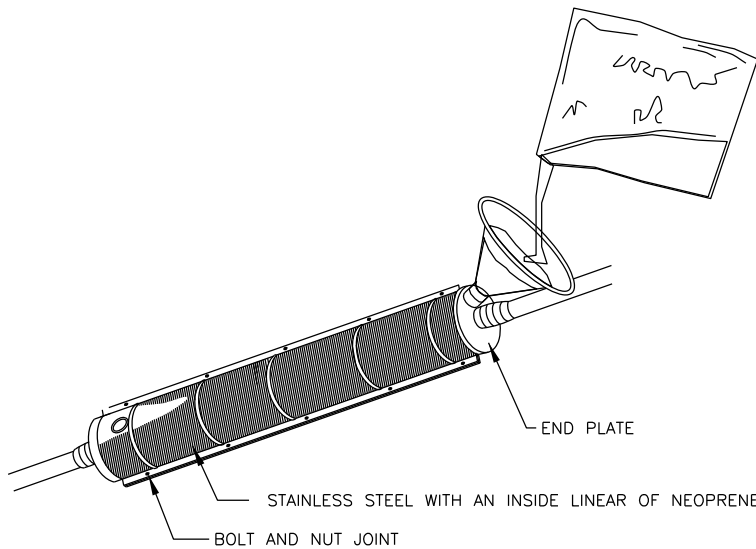
A 5

OUTER SEALING COLLAR INSTALLATION



A 5

CLOSURE ASSEMBLY



A 6

POURING ENCAPSULANT

NOTE:

1. THE INDICATED TELEPHONE CABLE SPLICING PREPARATION IS FOR ILLUSTRATION ONLY OF THE BASIC TELEPHONE CABLE STRAIGHT SPLICE. REFER TO THE SPECIFICATIONS AND CONSULT THE CABLE MANUFACTURER FOR EXACT PROCEDURES AND CUTTING DIMENSIONS, INCLUDING THE NECESSARY SPLICING MATERIALS.

TELEPHONE CABLE SPLICING DETAIL - 2

NOT TO SCALE



O&MA STANDARD DETAILS, KOREA

TITLE

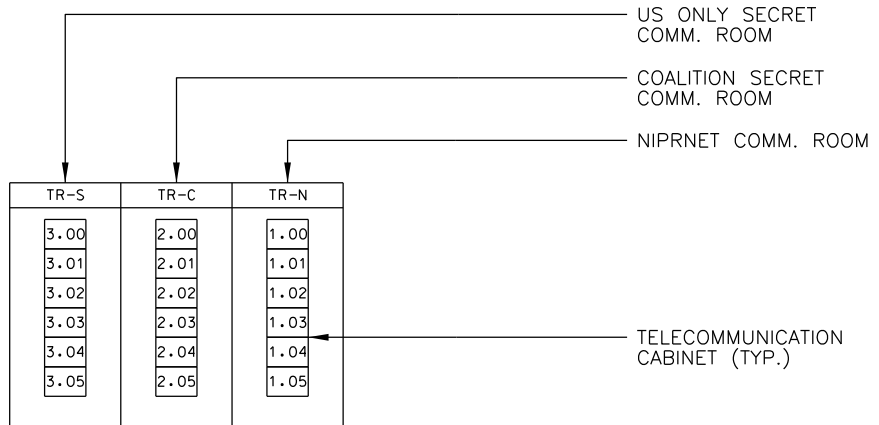
TELEPHONE CABLE SPLICING DETAIL - 2

OMA SPEC

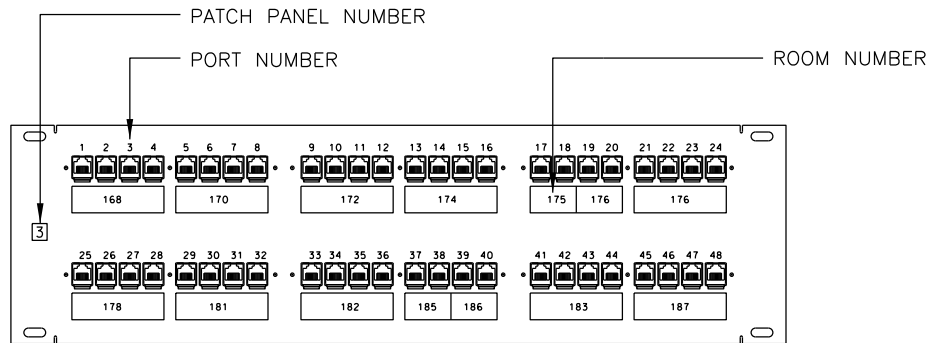
338200

DWG NO.

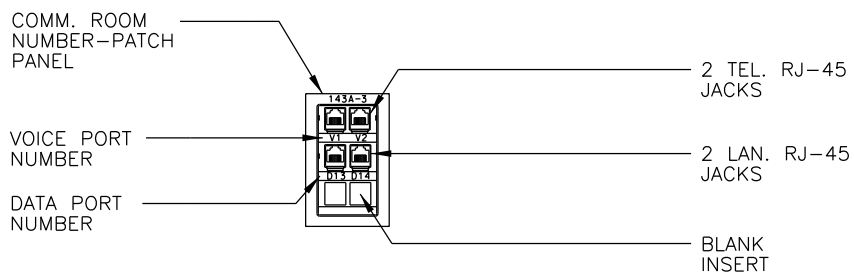
E - 113



A TYPICAL TELECOM CABINET LABELING



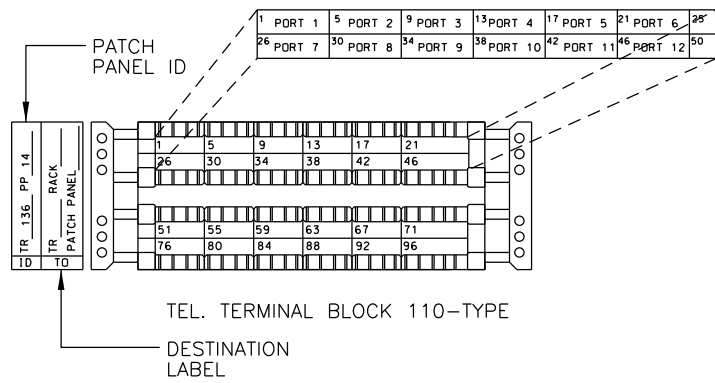
B TYPICAL 45-PORT UTP PATCH PANEL LABELING



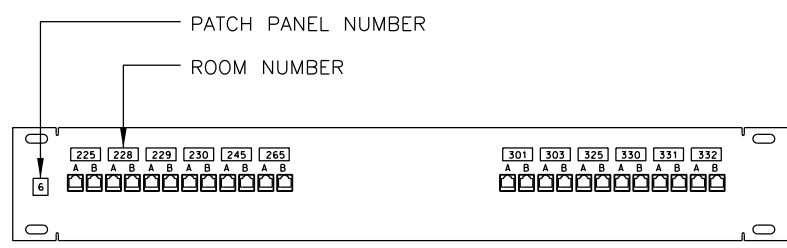
C TYPICAL VOICE/DATA OUTLET

TELECOMMUNICATION SYSTEM LABELING - 1
NOT TO SCALE

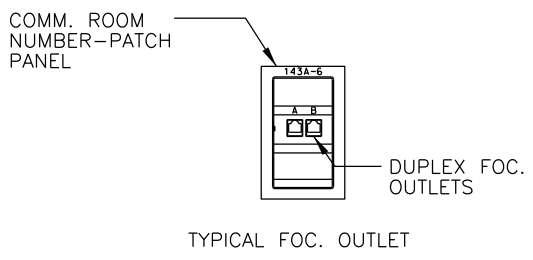
	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TELECOMMUNICATION SYSTEM LABELING - 1	271000	E - 114



D TYPICAL 110 WIRING BLOCK LABELING




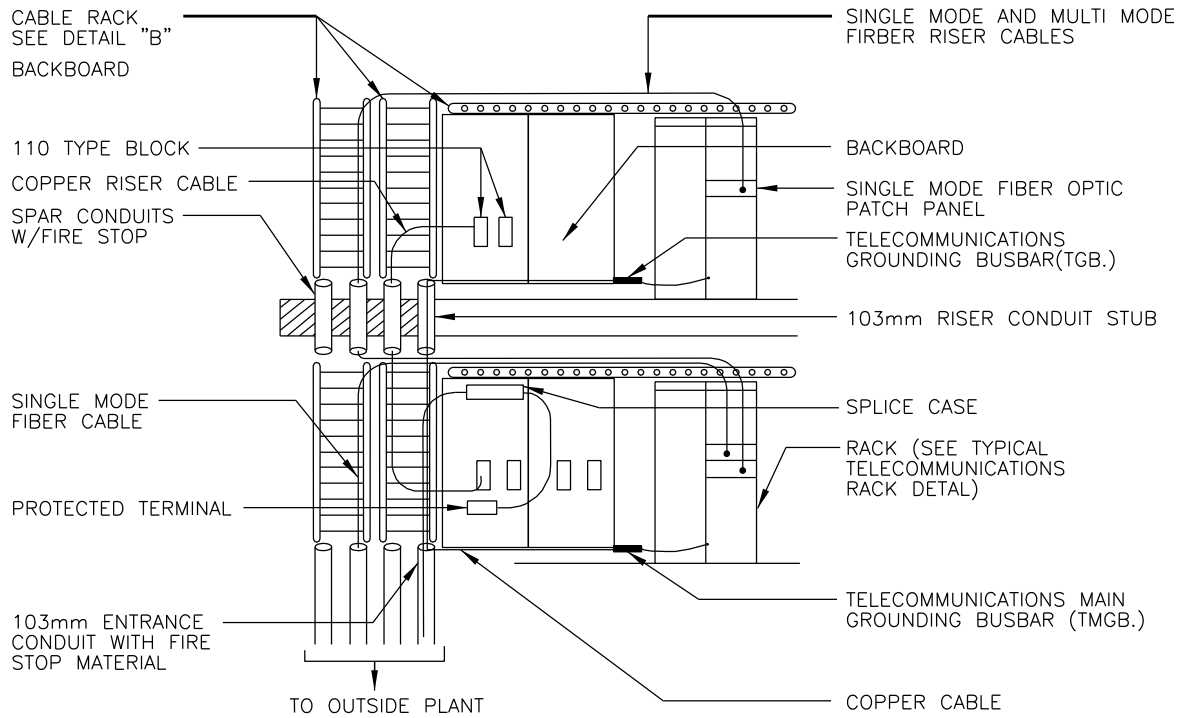
E TYPICAL 24-PORT FOC. PATCH PANEL LABELING



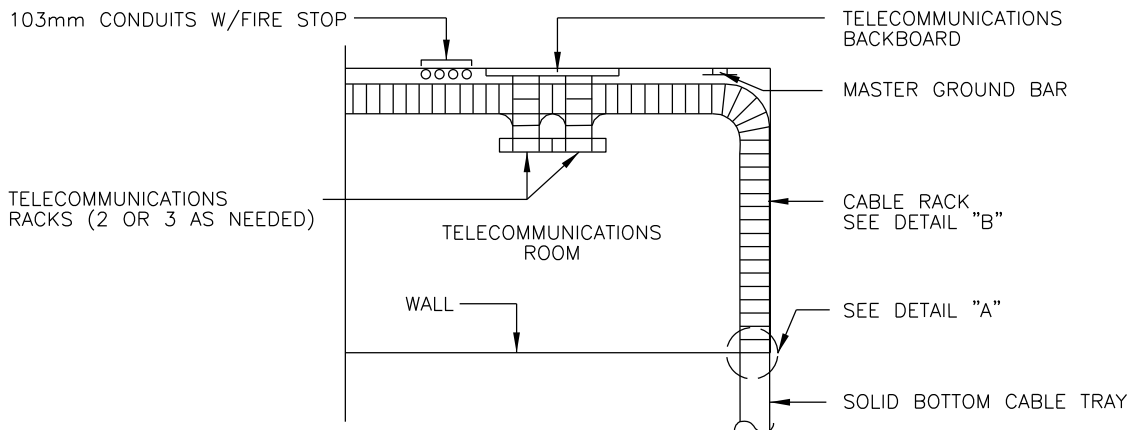
F TYPICAL OUTLET LABELING

TELECOMMUNICATION SYSTEM LABELING - 2
NOT TO SCALE

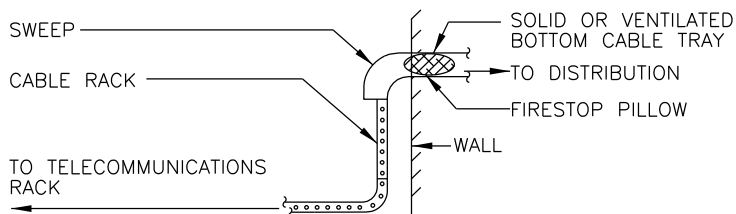
	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TELECOMMUNICATION SYSTEM LABELING - 2	271000	E - 115



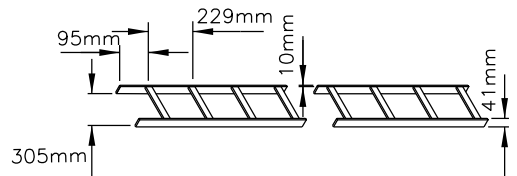
A RISER/CABLE LADDER DETAIL



B CABLE RACK DETAIL



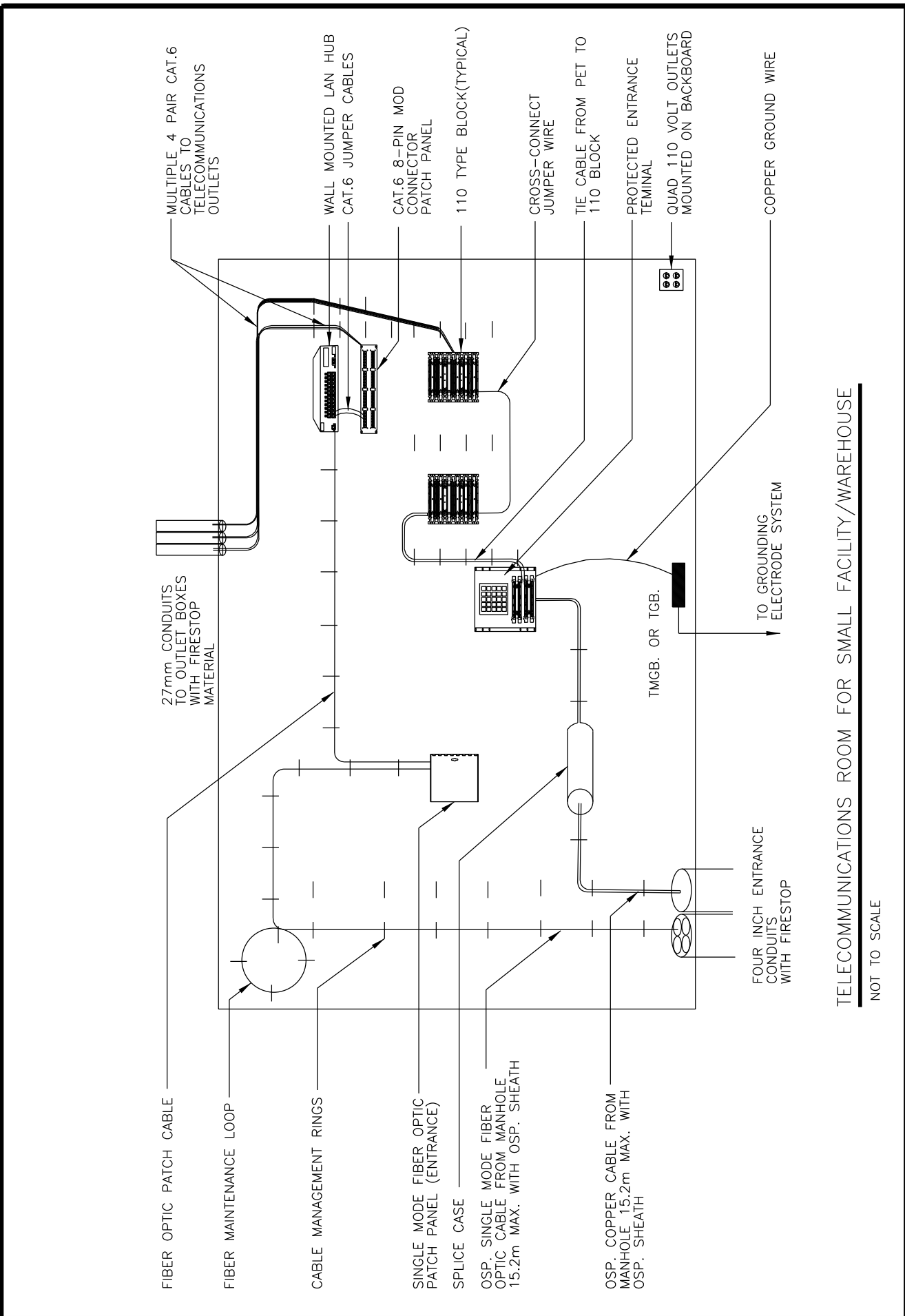
B1 DETAIL "A" CABLE TRAY TO CABLE RACK TRANSITION



B2 DETAIL "B" CABLE RACK, CHANNEL TYPE

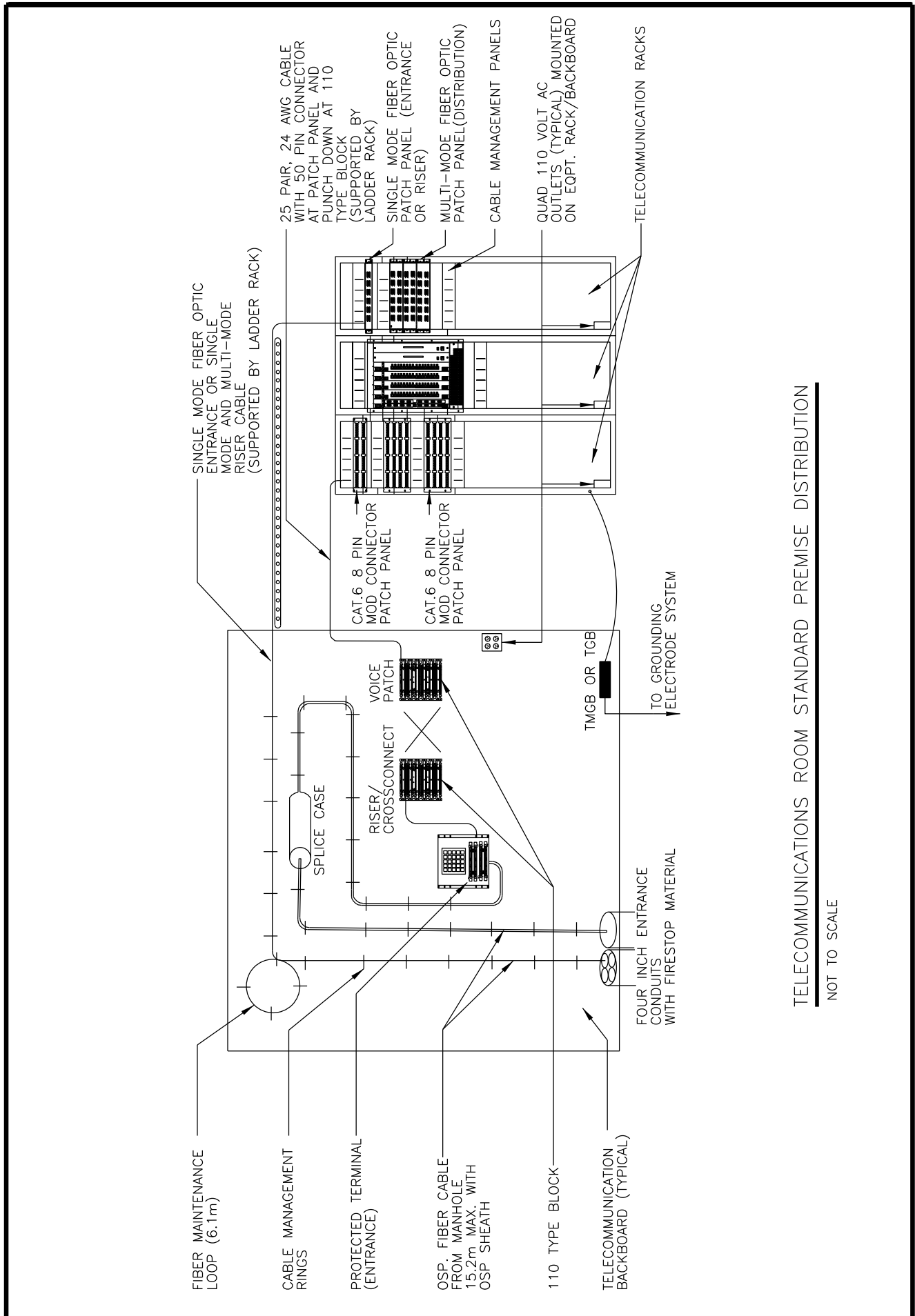
TELECOMMUNICATIONS ROOM STANDARD SUPPORTING STRUCTURE AND RISER
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TELECOMMUNICATIONS ROOM STANDARD SUPPORTING STRUCTURE AND RISER	271000	E - 117



TELECOMMUNICATIONS ROOM FOR SMALL FACILITY/WAREHOUSE
NOT TO SCALE

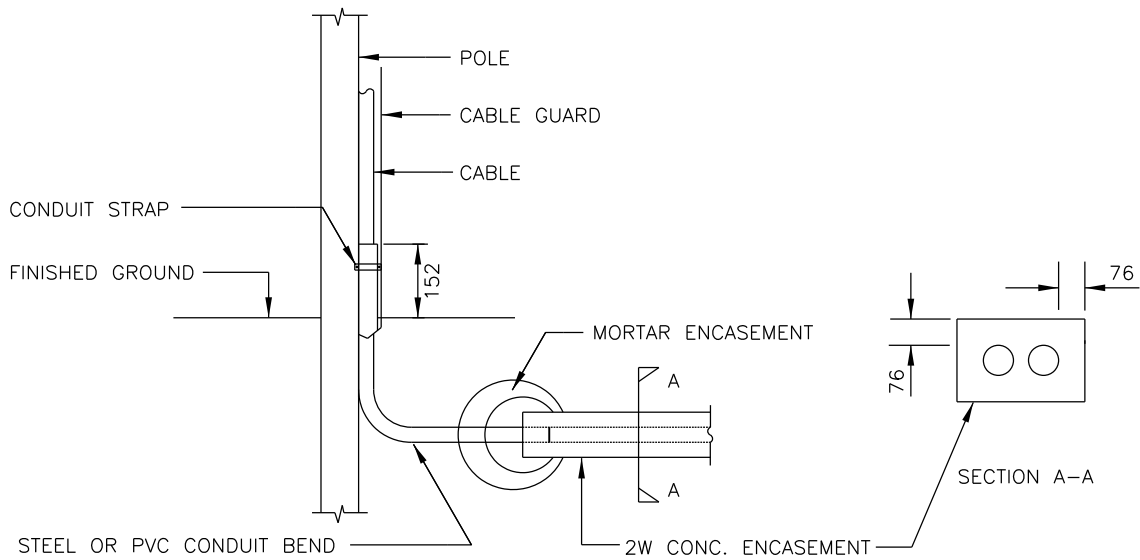
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TELECOMMUNICATIONS ROOM FOR SMALL FACILITY/WAREHOUSE	271000	E - 118



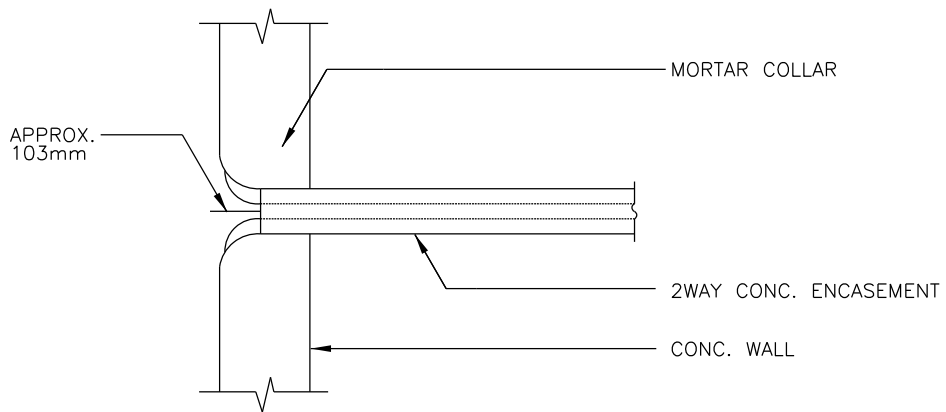
TELECOMMUNICATIONS ROOM STANDARD PREMISE DISTRIBUTION

NOT TO SCALE

 <p>IMCOM</p>	<p>O&MA STANDARD DETAILS, KOREA</p>		<p>OMA SPEC</p>	<p>DWG NO.</p>
	<p>TITLE</p>	<p>TELECOMMUNICATIONS ROOM STANDARD PREMISE DISTRIBUTION</p>		<p>271000</p>



A RISER POLE CONNECTION FOR COMM. CABLE



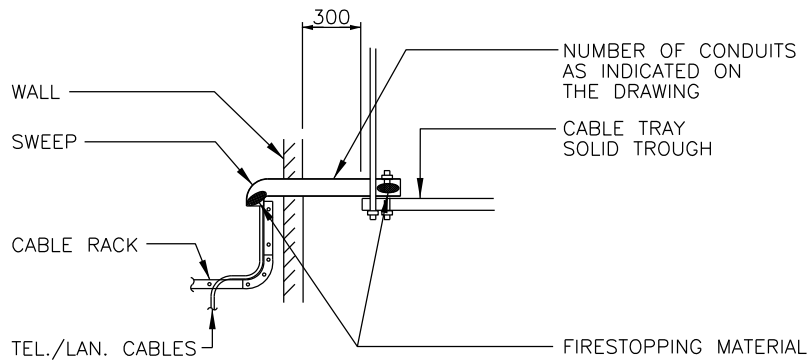
B WALL CONNECTION

RISER POLE CONNECTION FOR COMMUNICATION CABLE

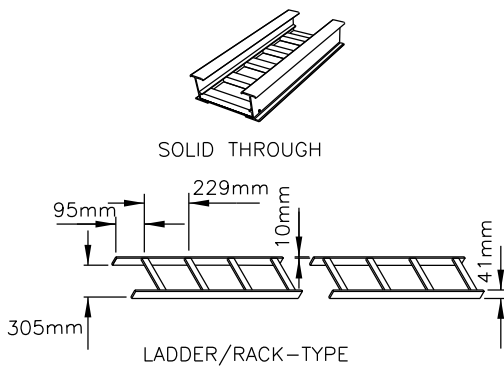
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	RISER POLE CONNECTION FOR COMMUNICATION CABLE	271000	E - 120

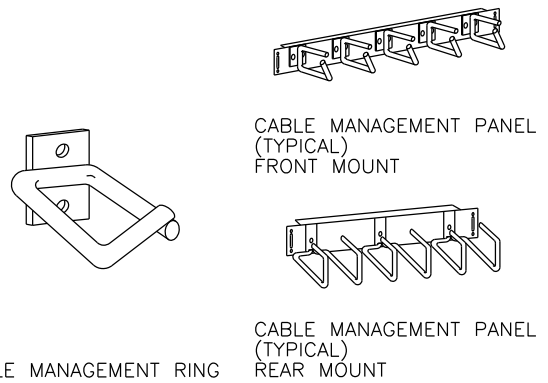
REV DATE: NOV 2015



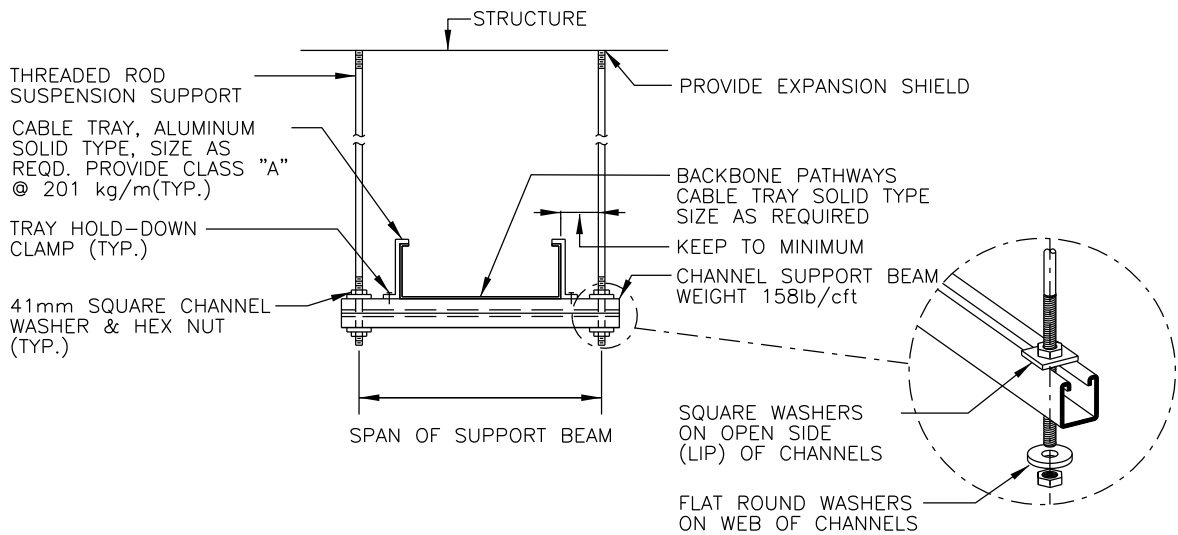
A CABLE TRAY TRANSITION



B CABLE TRAY & LADDER/RACK DETAIL



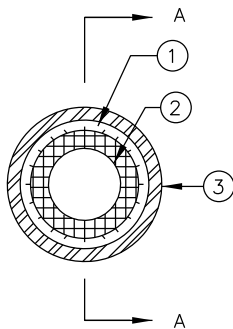
C CABLE MANAGEMENT DETAILS



D CABLE TRAY SUPPORT MOUNTING DETAIL

CABLE TRAY DETAIL
NOT TO SCALE

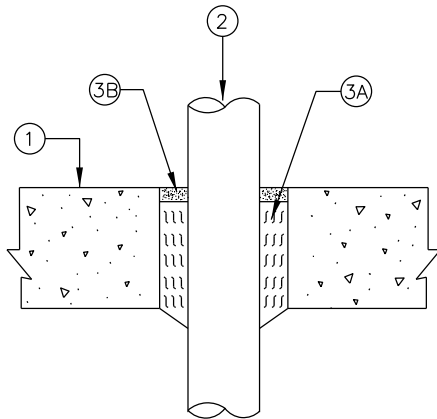
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CABLE TRAY DETAIL	262000	E - 121



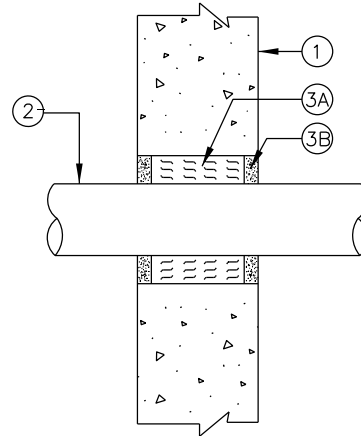
NOTE:

1. FIRESTOP RATING(SYSTEM NO. C-AJ-2335) SHALL BE EQUAL TO OR GREATER THAN FLOOR OR WALL RATING, FOR EXAMPLE: 3 HOURS FOR A 3HOUR RATED FLOOR.

- ① FLOOR OR WALL ASSEMBLY
 - ② CONDUIT
- ③A PACKING MATERIAL
 - ③B SEALANT



SECTION A-A
(FLOOR ASSEMBLY)

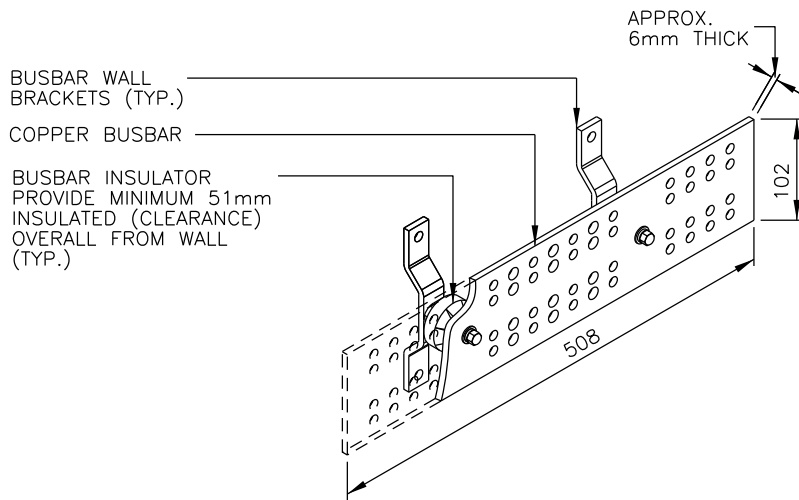


SECTION A-A
(WALL ASSEMBLY)

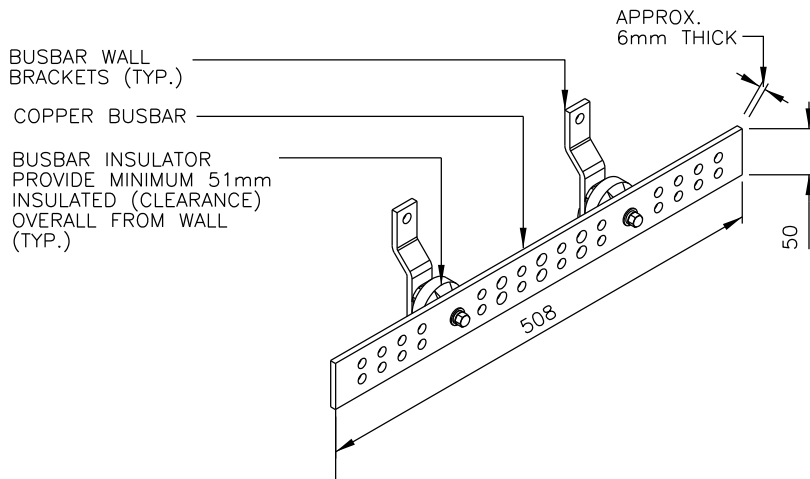
A ————— TYPICAL FIRESTOP DETAIL

FIRE STOP DETAIL
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	FIRE STOP DETAIL	078400	E - 122



A TELECOMMUNICATION MAIN GROUND BUSBAR (TMGB)

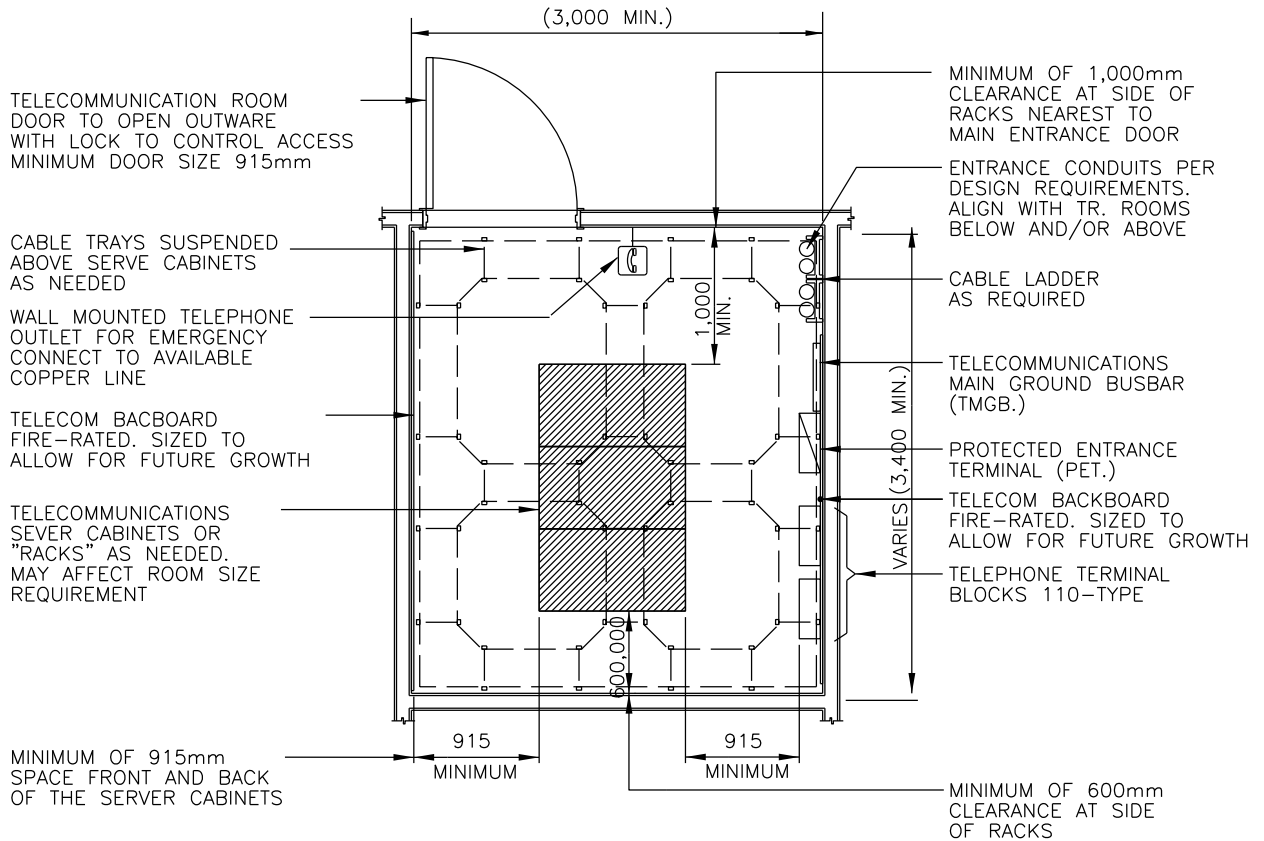


B TELECOMMUNICATION GROUND BUSBAR (TGB)

GROUNDING BUS BAR DETAIL

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	GROUNDING BUS BAR DETAIL	262000	E - 123



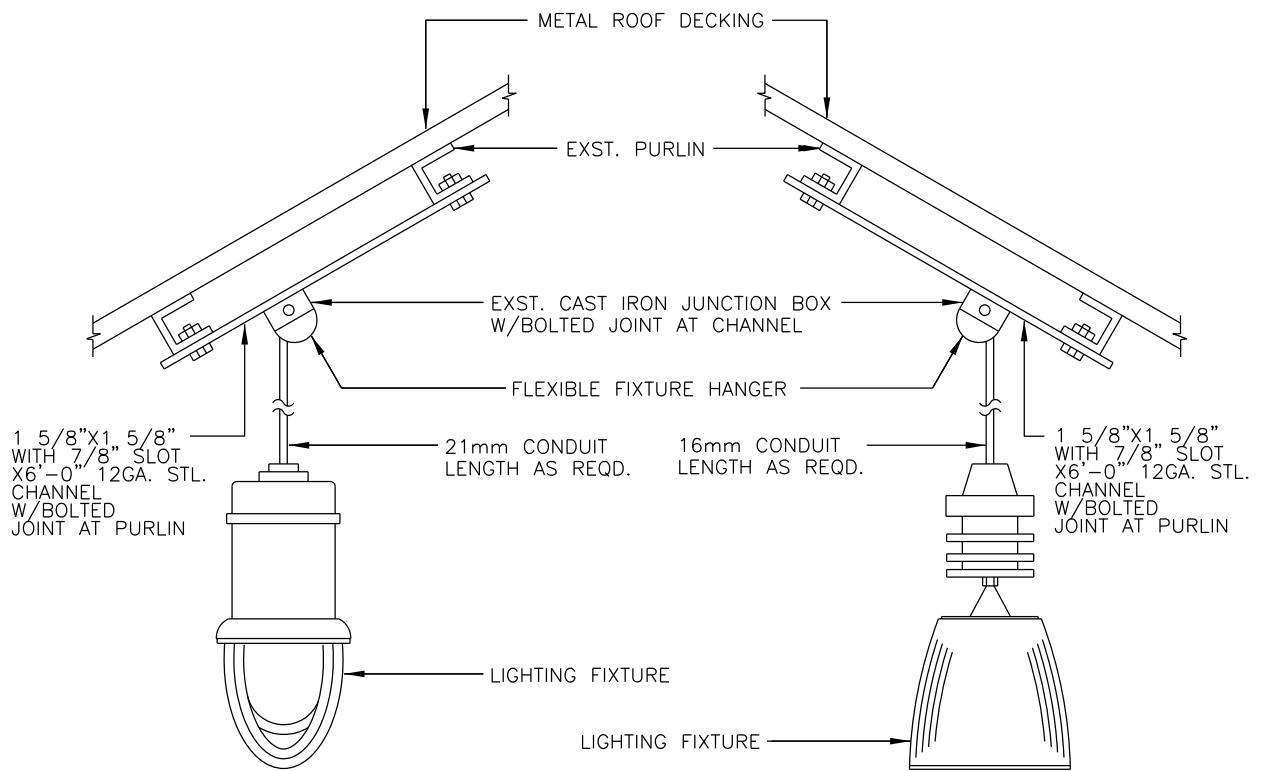
NOTE:

1. TYPICAL TELECOMMUNICATIONS ROOM (TR.) 3.4m X 3.0m FOR A 1,000 sq. m. AREA OF A BUILDING. IF A TR. SEVES A LARGER AREA THE THE SIZE OF THE ROOM SHOULD GROW PROPORTIONATELY.
2. FACILITIES WITH REQUIREMENTS EXCEEDING THOUSE OF THE AVERAGE ADMINISTRATIVE BUILDING (i.e, COMMAND AND CONTROL (C2) FACILITIES, etc.) WILL REQUIRE TR'S SIZED TO APPROXIMATELY TWO PERCENT OR MORE OF THE AREA SERVED.
3. MINIMUM CEILING HEIGHT 3,000mm. NO DROPPED CEILINGS ALLOWED.
4. ACTUAL CONFIGURATION CAN VARY.
5. TELECOMMUNICATION ROOMS SHALL BE STACKED VERTICALLY IN MULTI-STORY BUILDINGS AND SHALL BE CENTRALLY LOCATED IN THE AREA THEY SERVE TO MINIMIZE CABLE RUN LENGTH.

TELECOMMUNICATION ROOM TYPICAL LAYOUT

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TELECOMMUNICATION ROOM TYPICAL LAYOUT	271000	E - 124

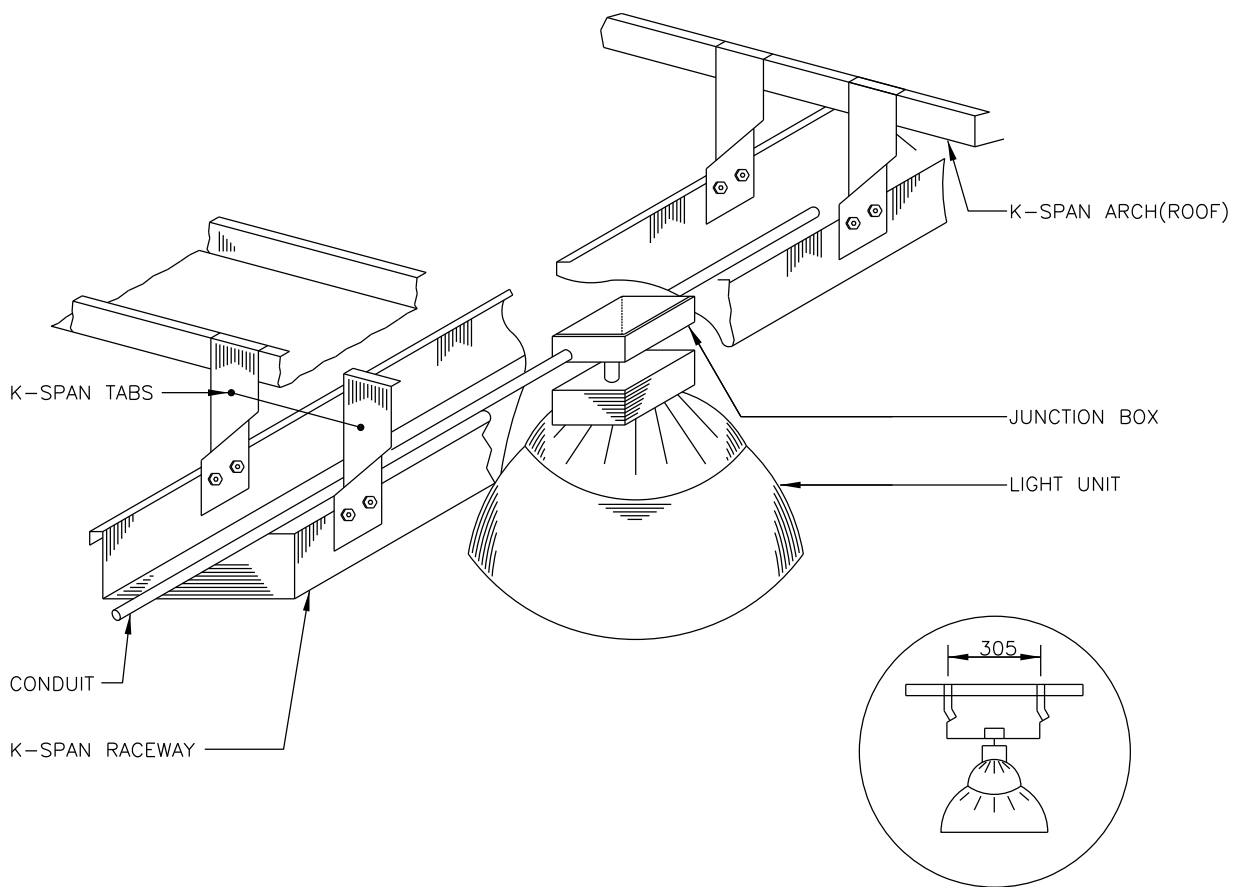


LIGHTING FIXTURE INSTALLATION DETAIL - 1

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	LIGHTING FIXTURE INSTALLATION DETAIL - 1	265100	E - 201

REV DATE: NOV 2015

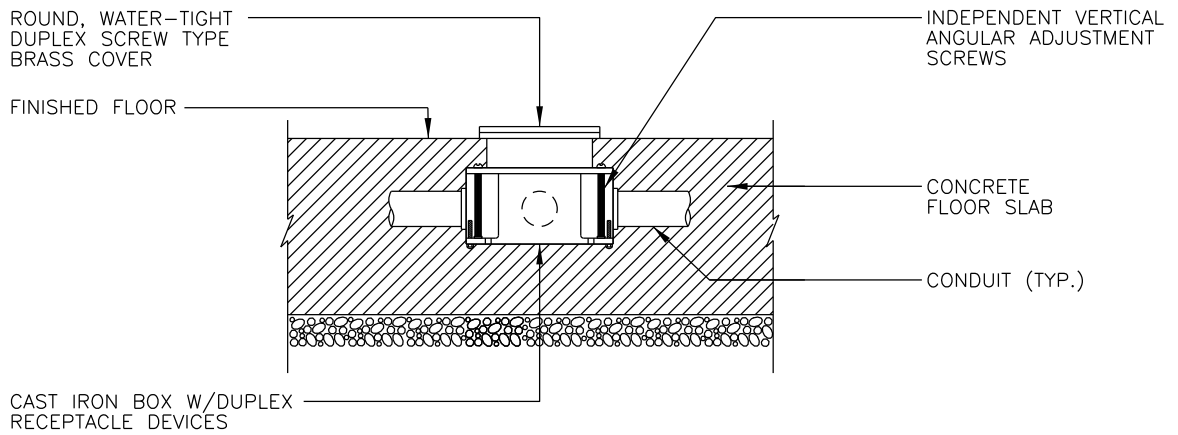


LIGHTING FIXTURE INSTALLATION DETAIL - 2

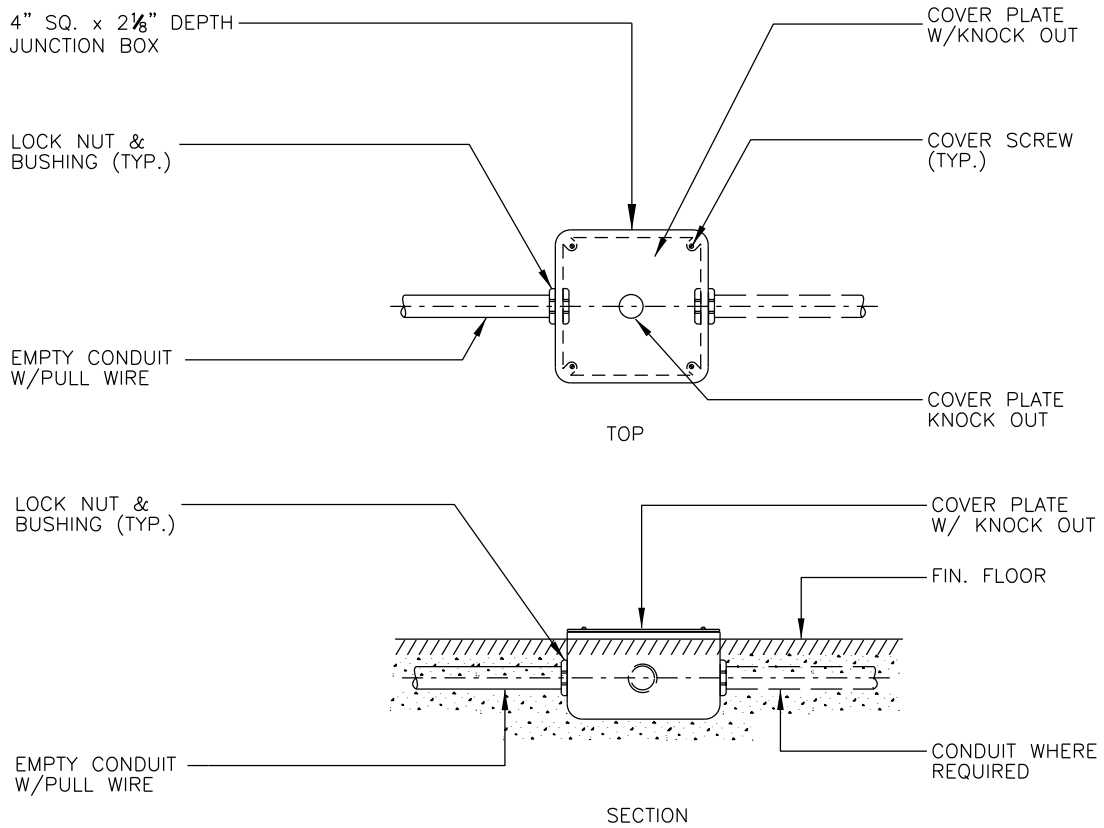
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	LIGHTING FIXTURE INSTALLATION DETAIL - 2	265100	E - 202

REV DATE: NOV 2015



A FLOOR MOUNTED RECEPTACLE DETAIL



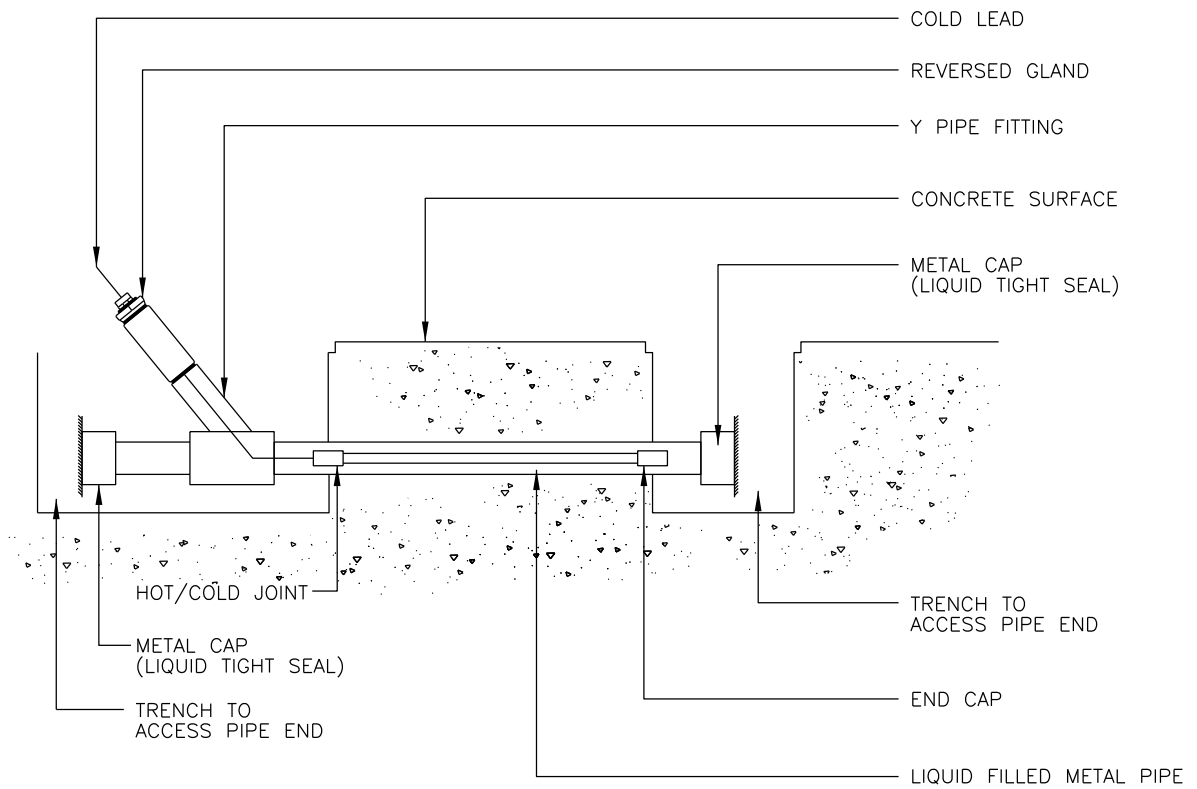
B FLOOR MOUNTED JUNCTION BOX DETAIL

FLOOR MOUNTED RECEPTACLE AND JUNCTION BOX MOUNTING DETAIL

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	FLOOR MOUNTED RECEPTACLE AND JUNCTION BOX MOUNTING DETAIL	262000	E - 203

REV DATE: NOV 2015



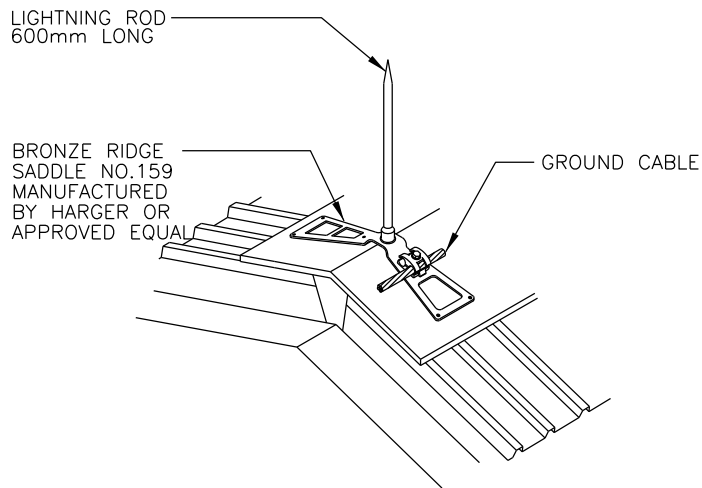
NOTE:

1. HEATING CABLE SYSTEM SHALL BE SIMILAR TO TYCOTHERMAL SNOW MELTING HANGAR DOOR TRACKS OR APPROVED EQUAL.

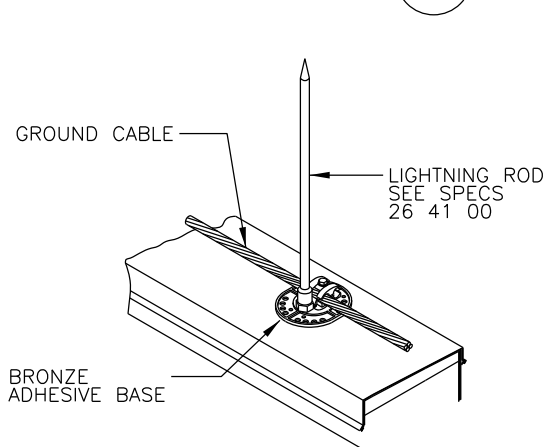
HEATING CABLE INSTALLATION DETAIL

NOT TO SCALE

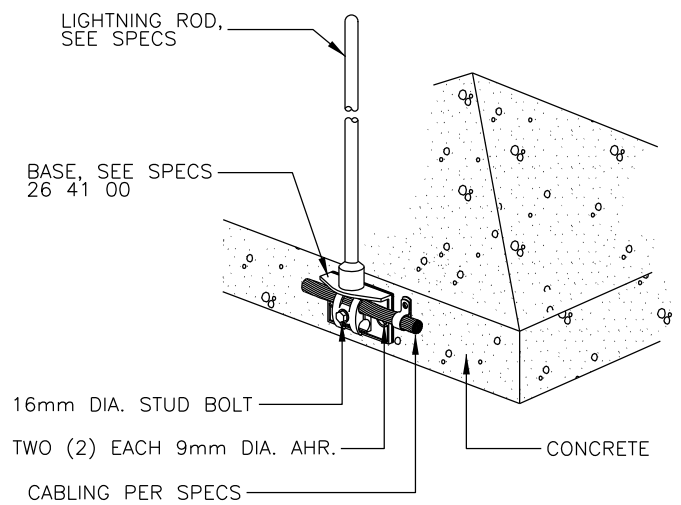
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	HEATING CABLE INSTALLATION DETAIL	N/A	E - 204



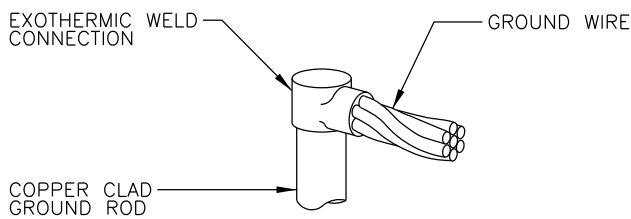
A DETAIL - 1 (RIDGE)



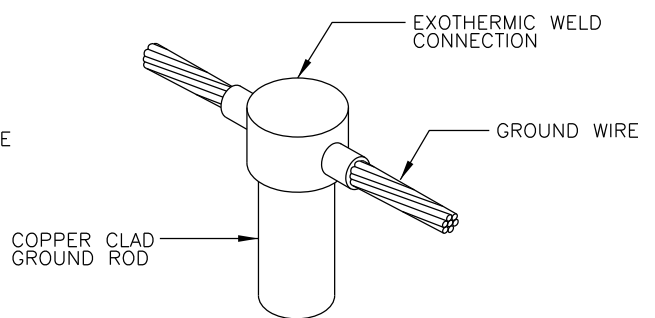
B DETAIL - 2



C ISOMETRIC AT CHIMNEY




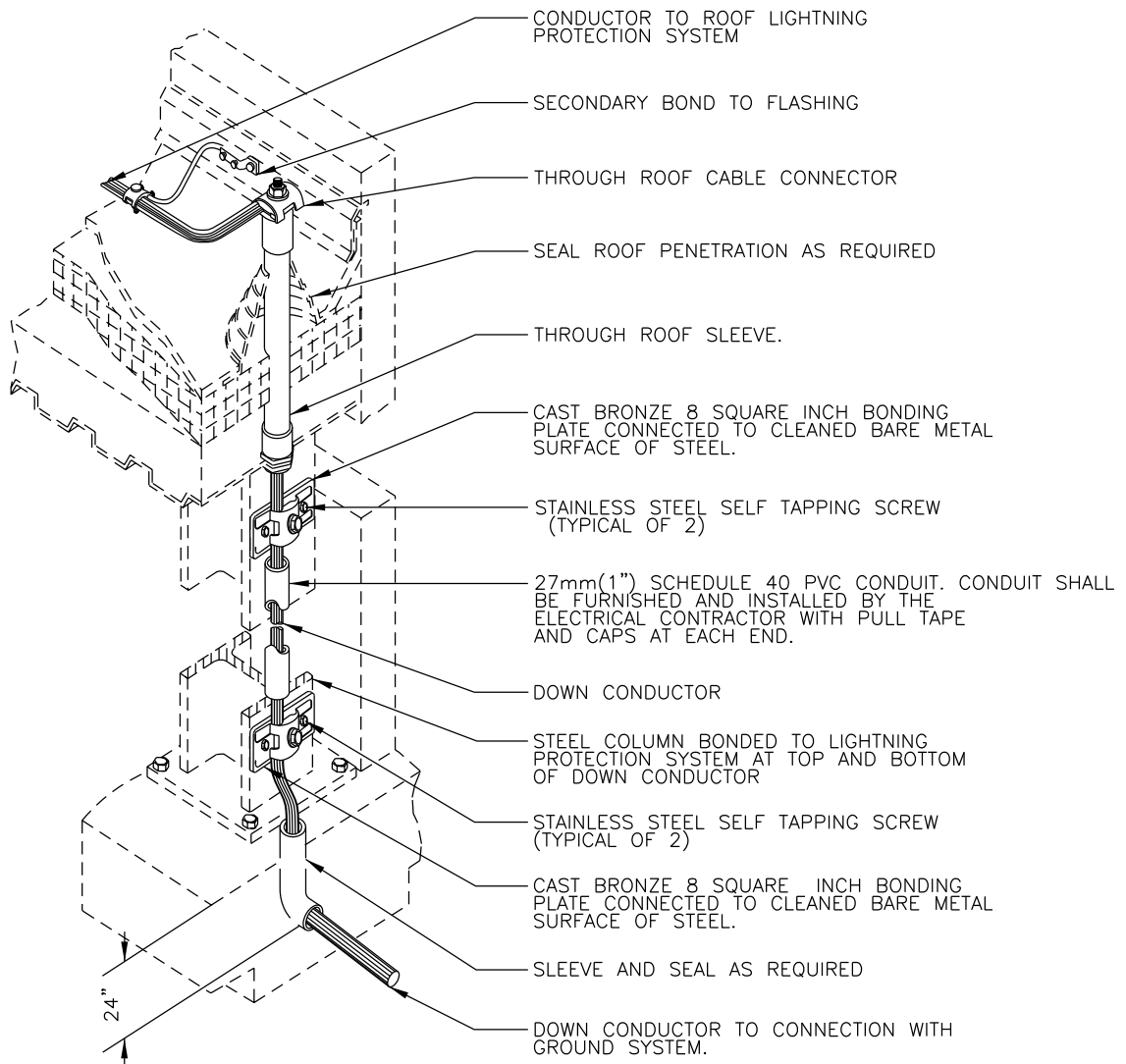
D (ONE SHOT) MOLD
(TYPES GR,GT,NT & NIX)



E (UNI SHOP) MOLD
(TYPES G21 & G31)

LIGHTNING PROTECTION SYSTEM DETAIL - 1
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	LIGHTNING PROTECTION SYSTEM DETAIL - 1	264100	E - 301

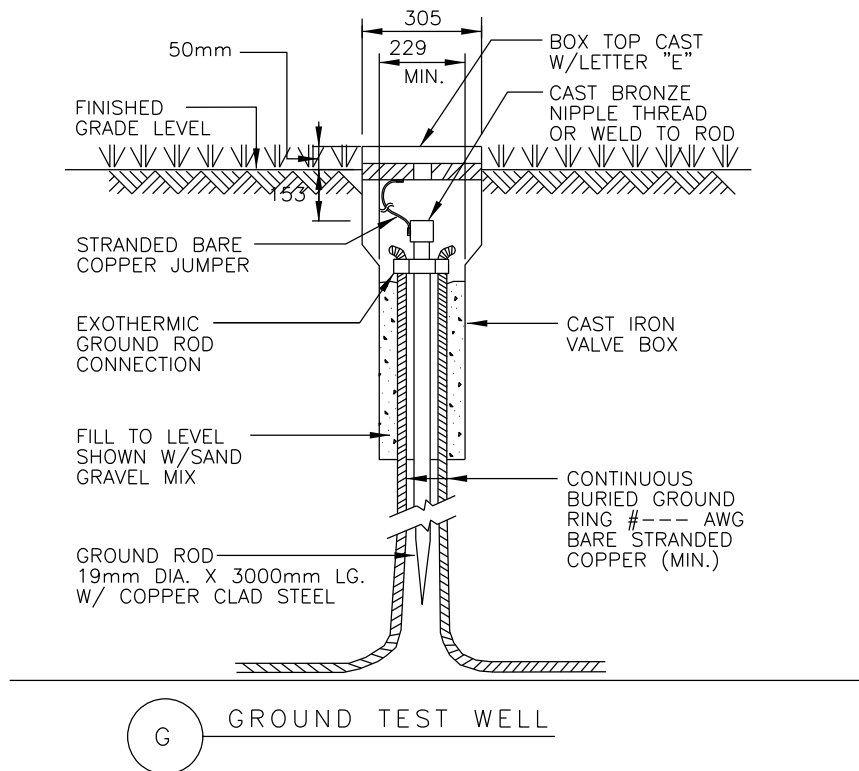


F DOWN CONDUCTOR BONDED TO STEEL

LIGHTNING PROTECTION SYSTEM DETAIL - 2

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	LIGHTNING PROTECTION SYSTEM DETAIL - 2	264100	E - 302



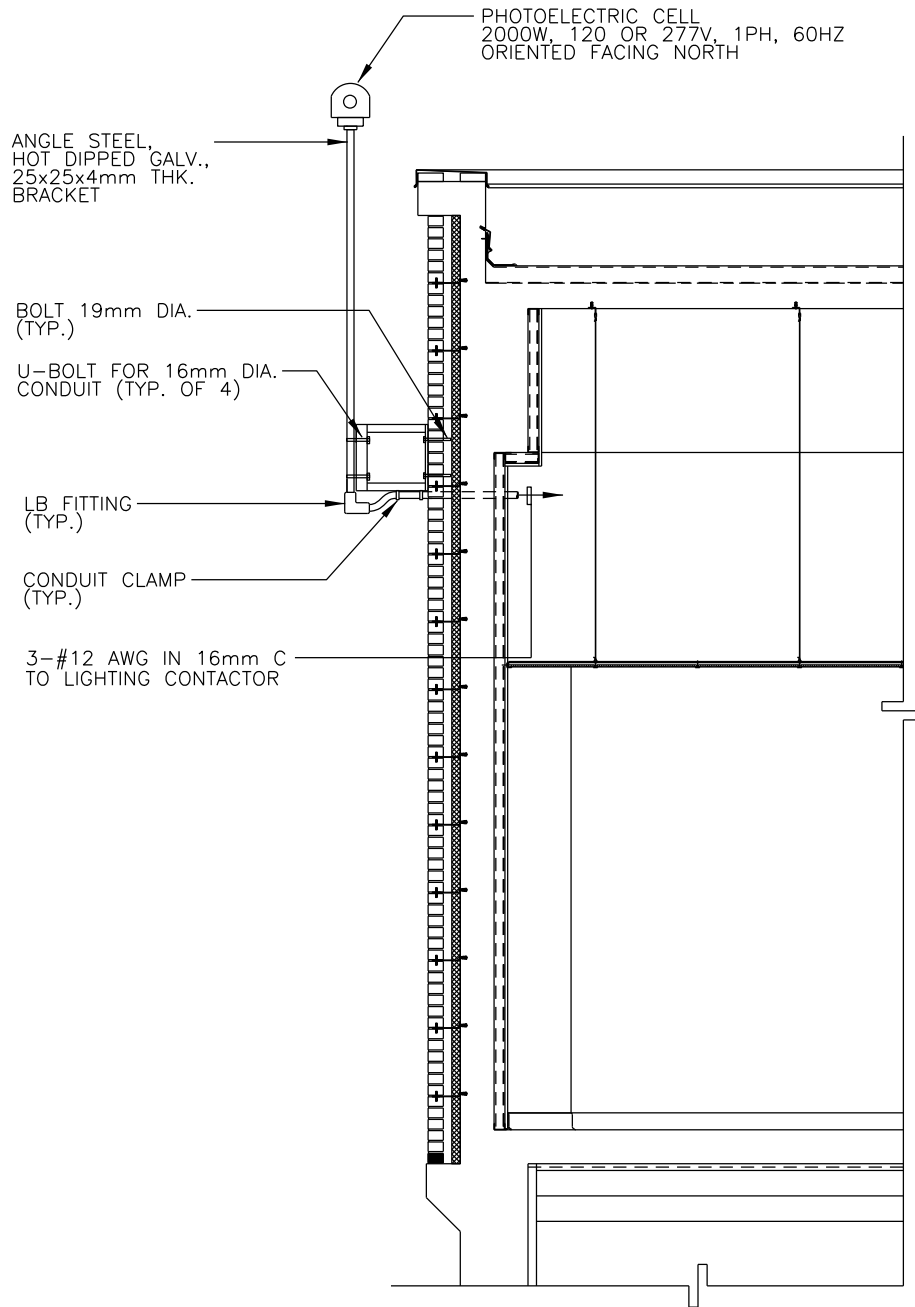
NOTE:

1. THE CONSTRUCTION CONTRACTOR TO PROVIDE A "UL MASTER LABELED" AND TESTING CERTIFICATION FOR THE LIGHTNING PROTECTION SYSTEM.

LIGHTNING PROTECTION SYSTEM DETAIL - 3


NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	LIGHTNING PROTECTION SYSTEM DETAIL - 3	264100	E - 303

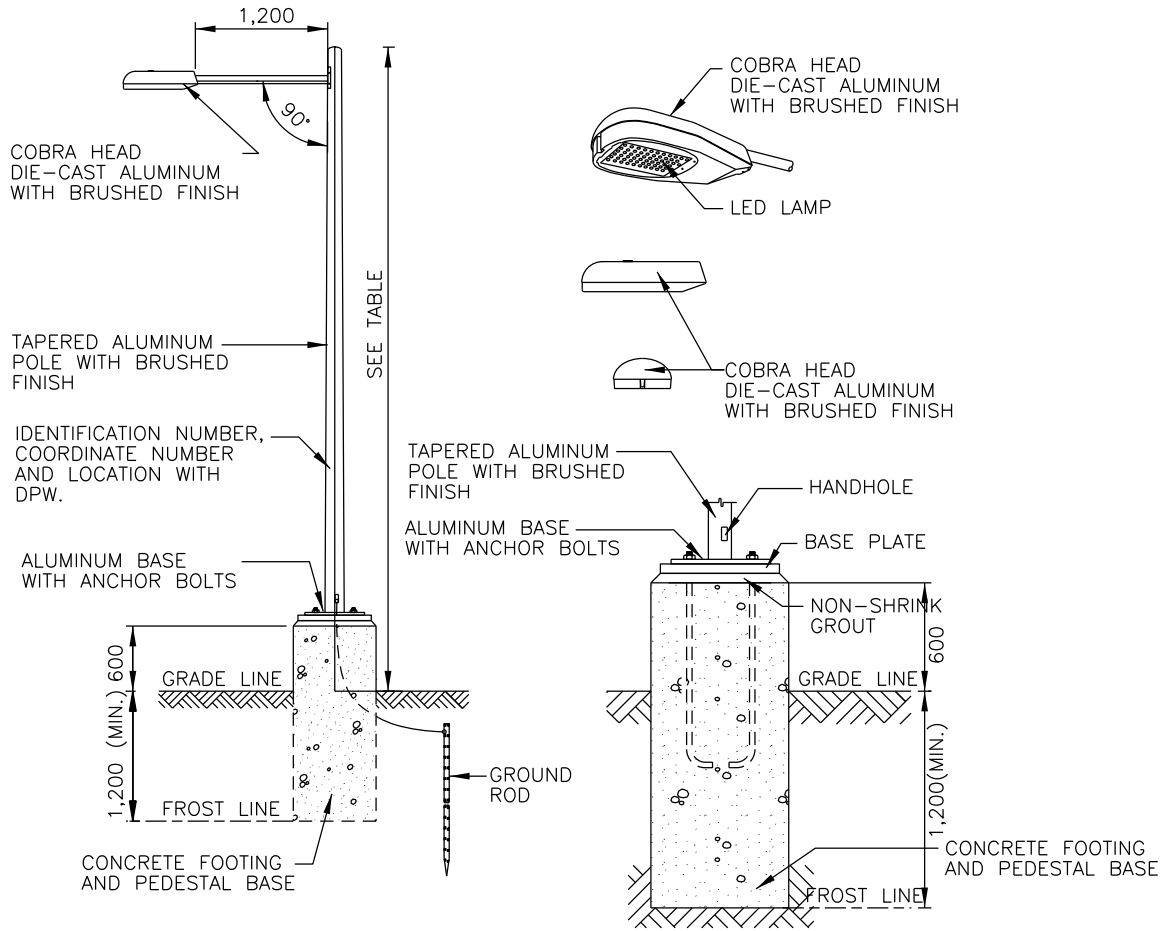


TYPICAL PHOTOELECTRICAL CELL INSTALLATION DETAIL

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TYPICAL PHOTOELECTRICAL CELL INSTALLATION DETAIL	265600	E - 304

REV DATE: NOV 2015



POLE HEIGHT TABLE		
6,070mm (20')	LOCAL ROADS	
7,620mm (25')	COLLECTOR ROADS	
7,620mm (25')	SECURITY AREAS	
9,140mm (30')	ARTERIAL ROADS	

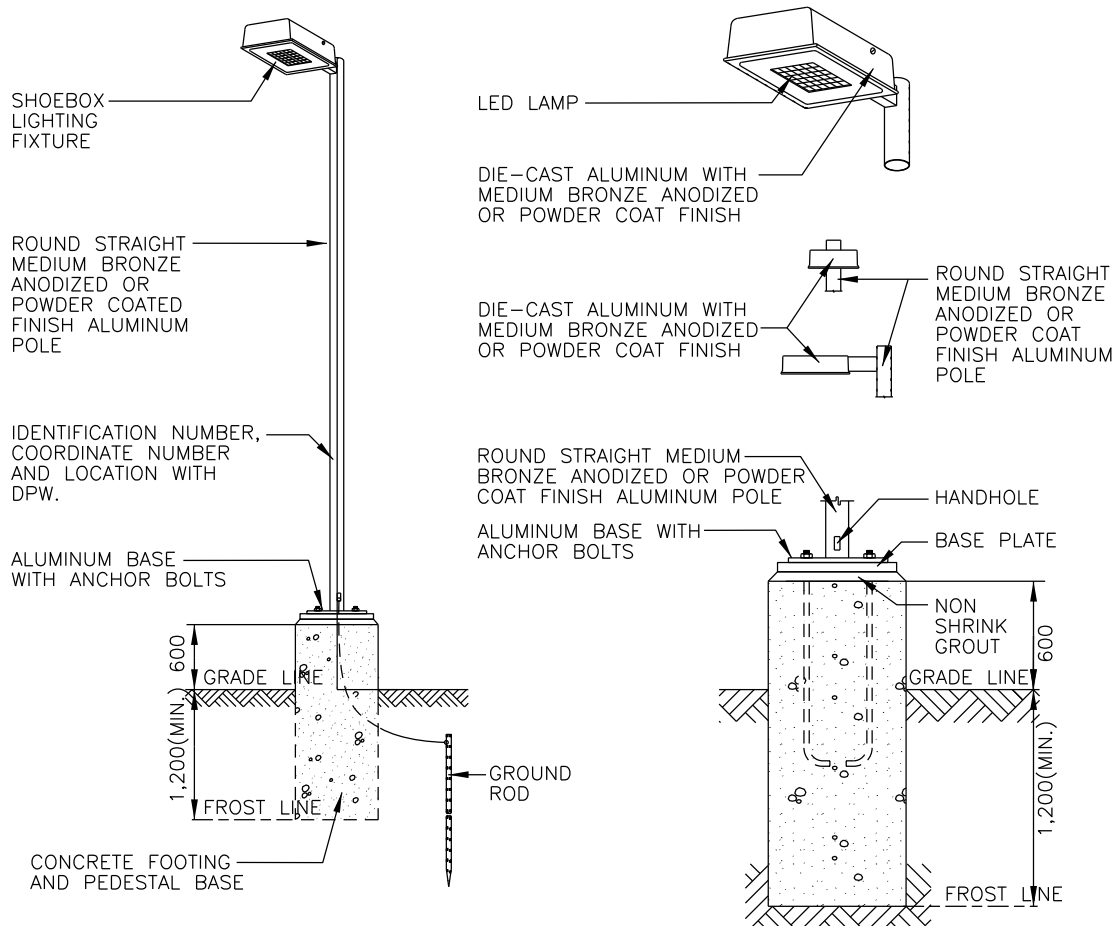
NOTE:

- ILLUMINATION OF LIGHTING CLOSE TO AIRFIELD SHOULD BE COORDINATED WITH AIRFIELD CONTROL CENTER.
- ANCHOR & BOLT ON BASE PLATE SHOULD BE PROVIDED WITH CAP TO PROTECT THE BOLTS FROM CORROSION AND FOR SAFETY.
- COMBINE EXTERIOR LIGHTING CONTROL CENTERS WITH ONE PHOTOSENSOR TO LINK A GROUP OF LIGHTS.

EXTERIOR LIGHTING POLE DETAIL(STREET)

NOT TO SCALE

	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	EXTERIOR LIGHTING POLE DETAIL (STREET)	265600	E - 305



POLE HEIGHT TABLE
3,660mm (12') WALKWAYS AND TRAILS
6,070mm (20') LESS THAN 40 PARKING SPACES
9,140mm (30') MORE THAN 40 PARKING SPACES

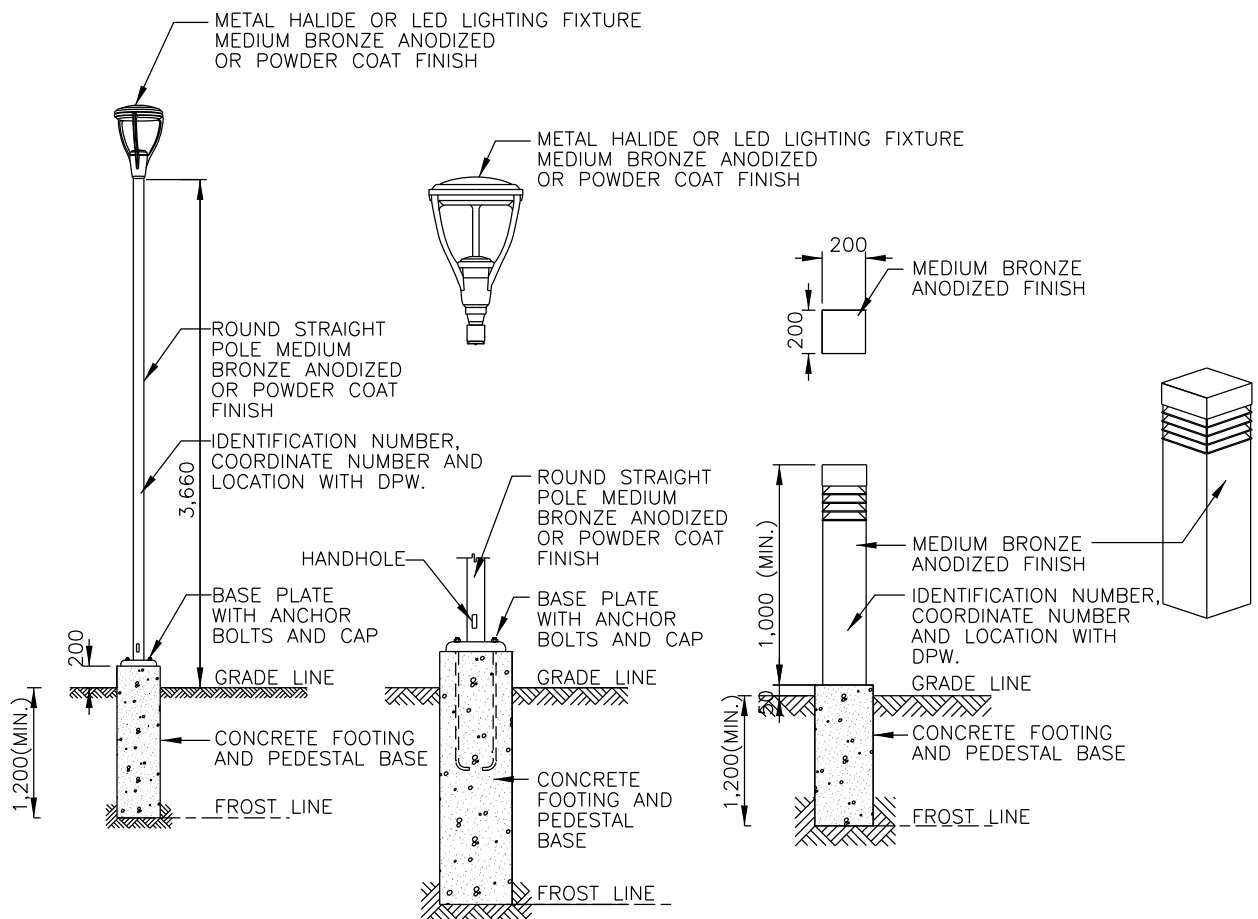
NOTE:

1. ILLUMINATION OF LIGHTING CLOSE TO AIRFIELD SHOULD BE COORDINATED WITH AIRFIELD CONTROL CENTER.
2. ANCHOR & BOLT ON BASE PLATE SHOULD BE PROVIDED WITH CAP TO PROTECT THE BOLTS FROM CORROSION AND FOR SAFETY.
3. COMBINE EXTERIOR LIGHTING CONTROL CENTERS WITH ONE PHOTOSENSOR TO LINK A GROUP OF LIGHTS.

EXTERIOR LIGHTING POLE DETAIL(PARKING LOT)

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	EXTERIOR LIGHTING POLE DETAIL (PARKING LOT)	265600	E - 306



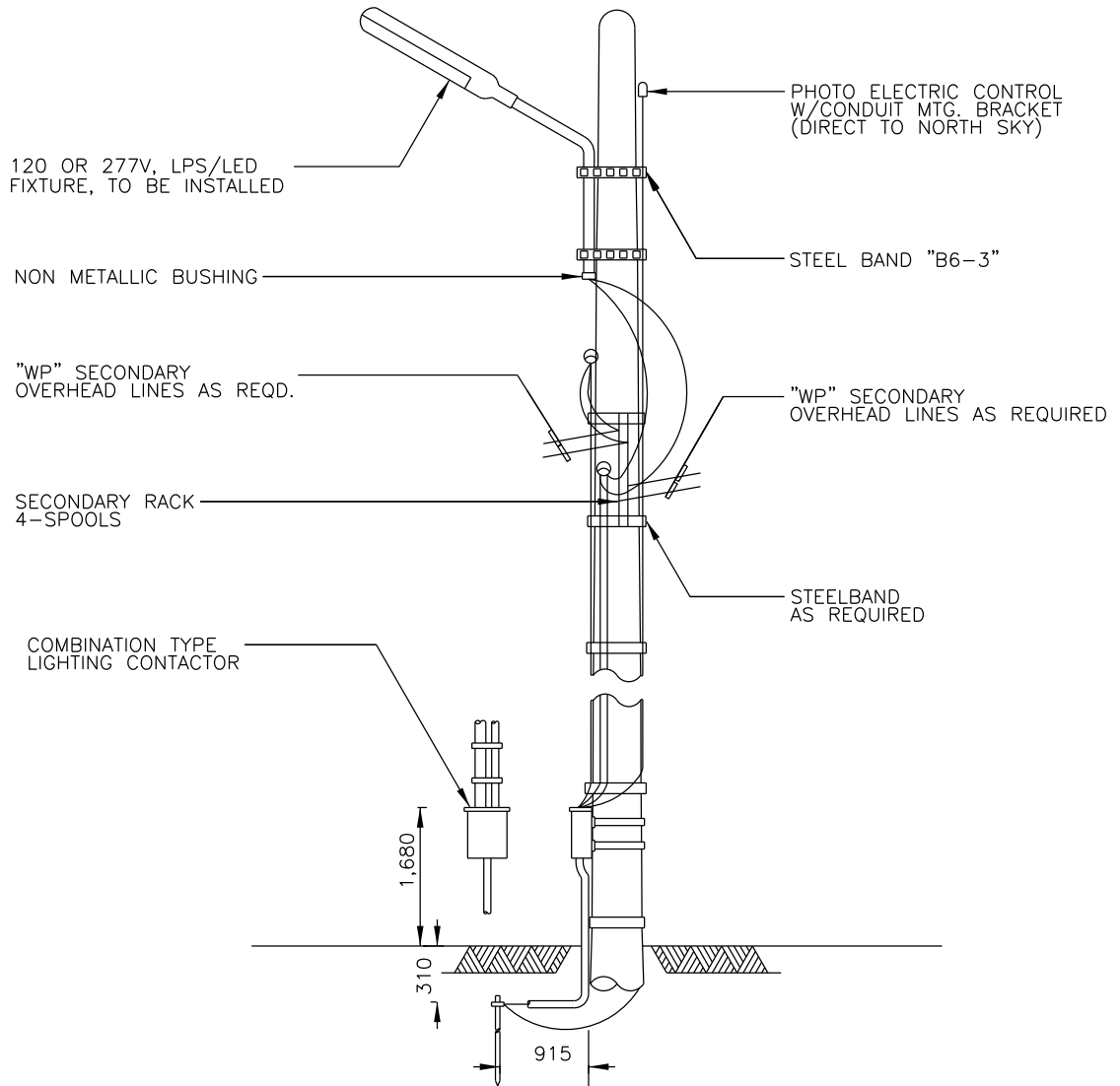
NOTE:

1. ILLUMINATION OF LIGHTING CLOSE TO AIRFIELD SHOULD BE COORDINATED WITH AIRFIELD CONTROL CENTER.
2. ANCHOR & BOLT ON BASE PLATE SHOULD BE PROVIDED WITH CAP TO PROTECT THE BOLTS FROM CORROSION AND FOR SAFETY.
3. COMBINE EXTERIOR LIGHTING CONTROL CENTERS WITH ONE PHOTOSENSOR TO LINK A GROUP OF LIGHTS.

EXTERIOR LIGHTING POLE DETAIL(PLAZA AREA)

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	EXTERIOR LIGHTING POLE DETAIL (PLAZA AREA)	265600	E - 307

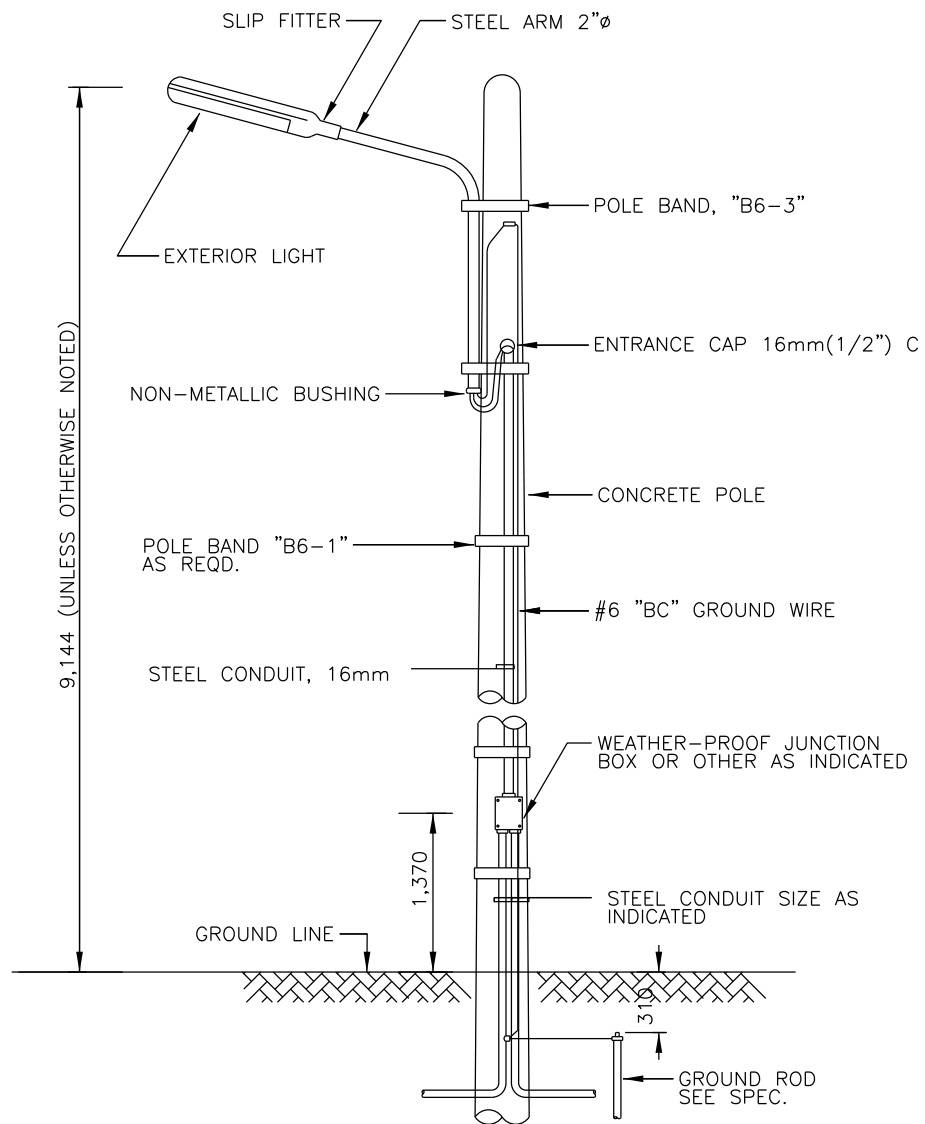


LIGHTING CONTACTOR AND PHOTOCELL INSTALLATION DETAIL

NOT TO SCALE

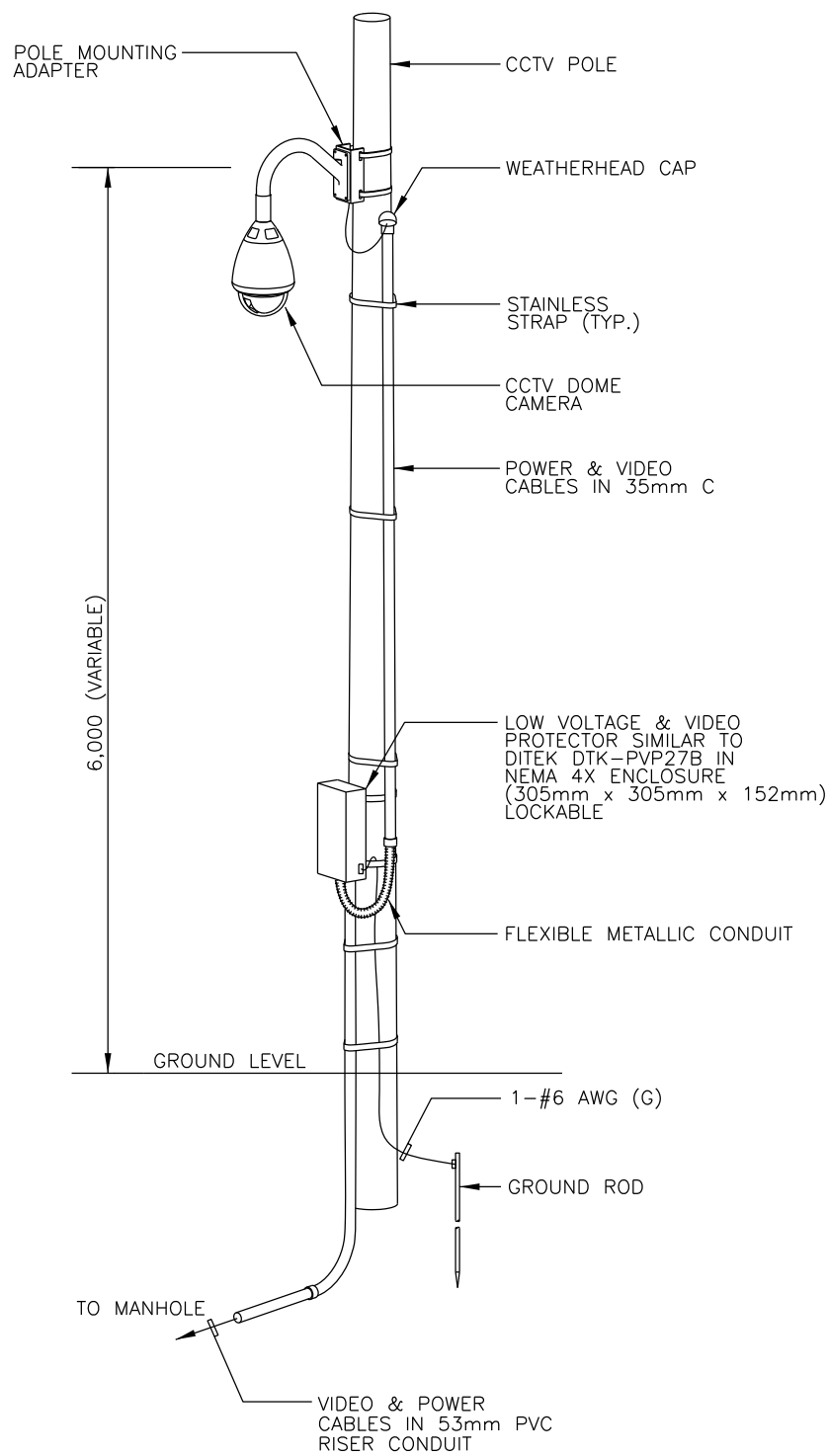
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	LIGHTING CONTACTOR AND PHOTOCELL INSTALLATION DETAIL	265600	E - 308

REV DATE: NOV 2015



FLOOD LIGHT INSTALLATION DETAIL
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	FLOOD LIGHT INSTALLATION DETAIL	265600	E - 309

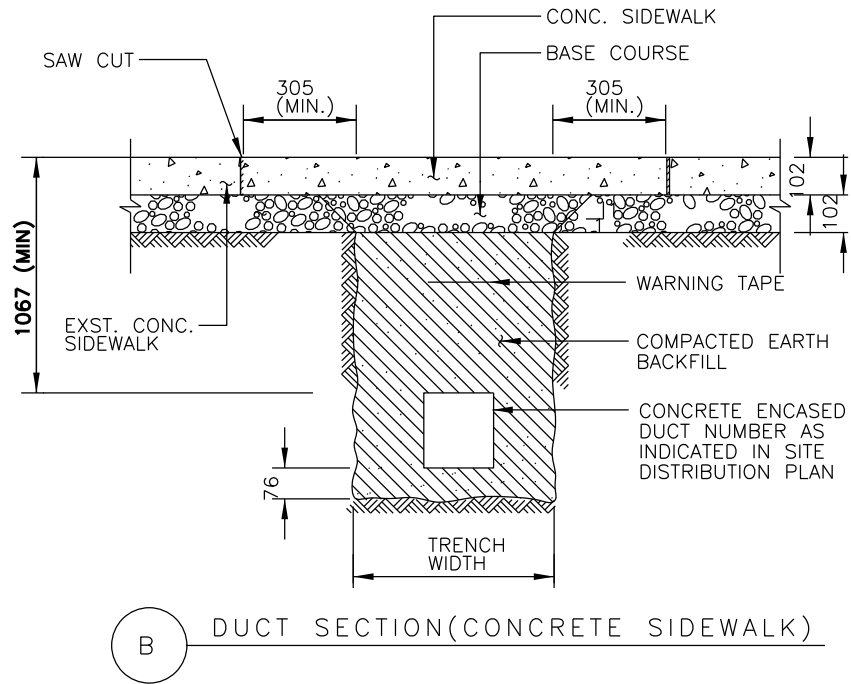
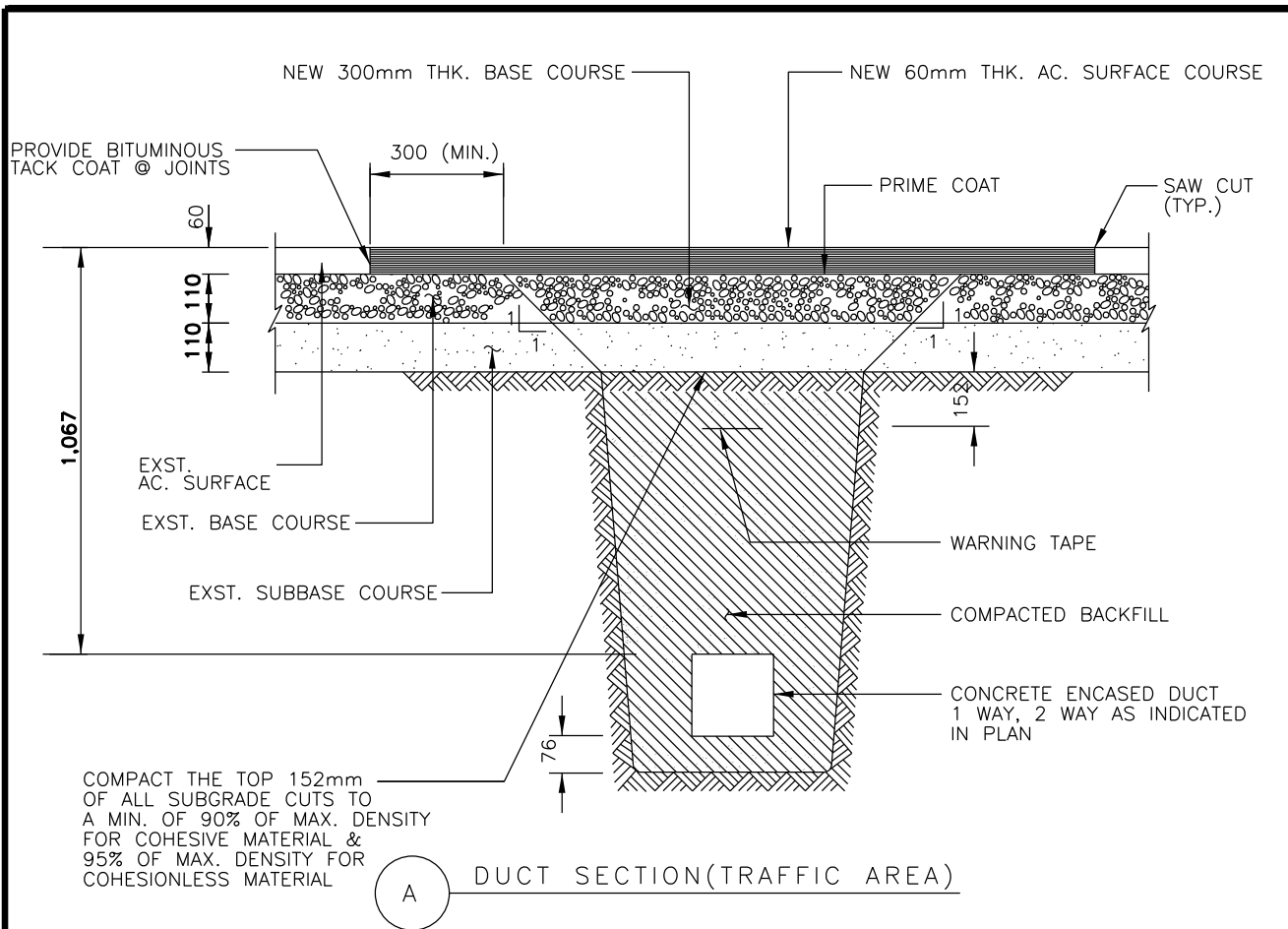


CCTV POLE INSTALLATION DETAIL

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	CCTV POLE INSTALLATION DETAIL	265600	E - 310

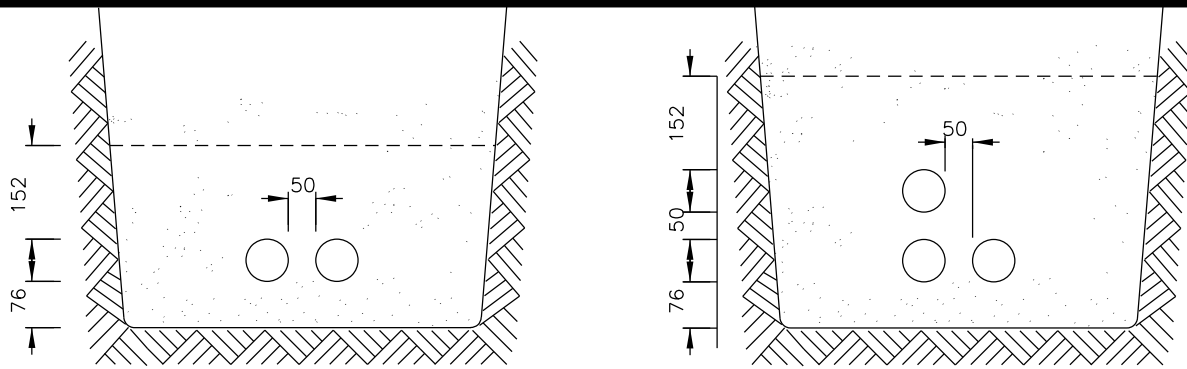
REV DATE: NOV 2015



ELECTRICAL POWER DUCT DETAIL - 1

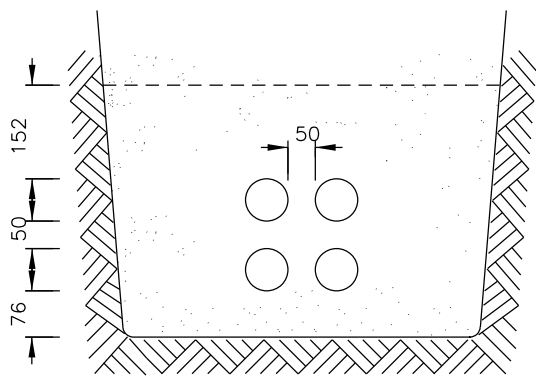
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	ELECTRICAL POWER DUCT DETAIL - 1	337002.0010	E - 311

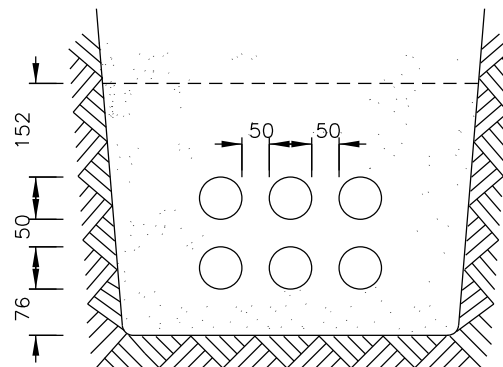


A1 2-WAY

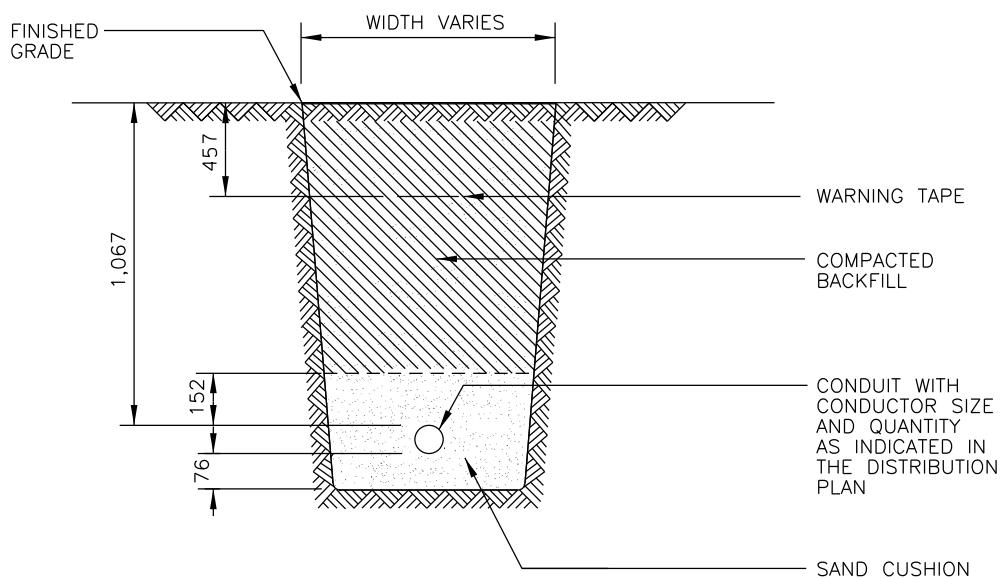
A2 3-WAY



A3 4-WAY



A4 6-WAY

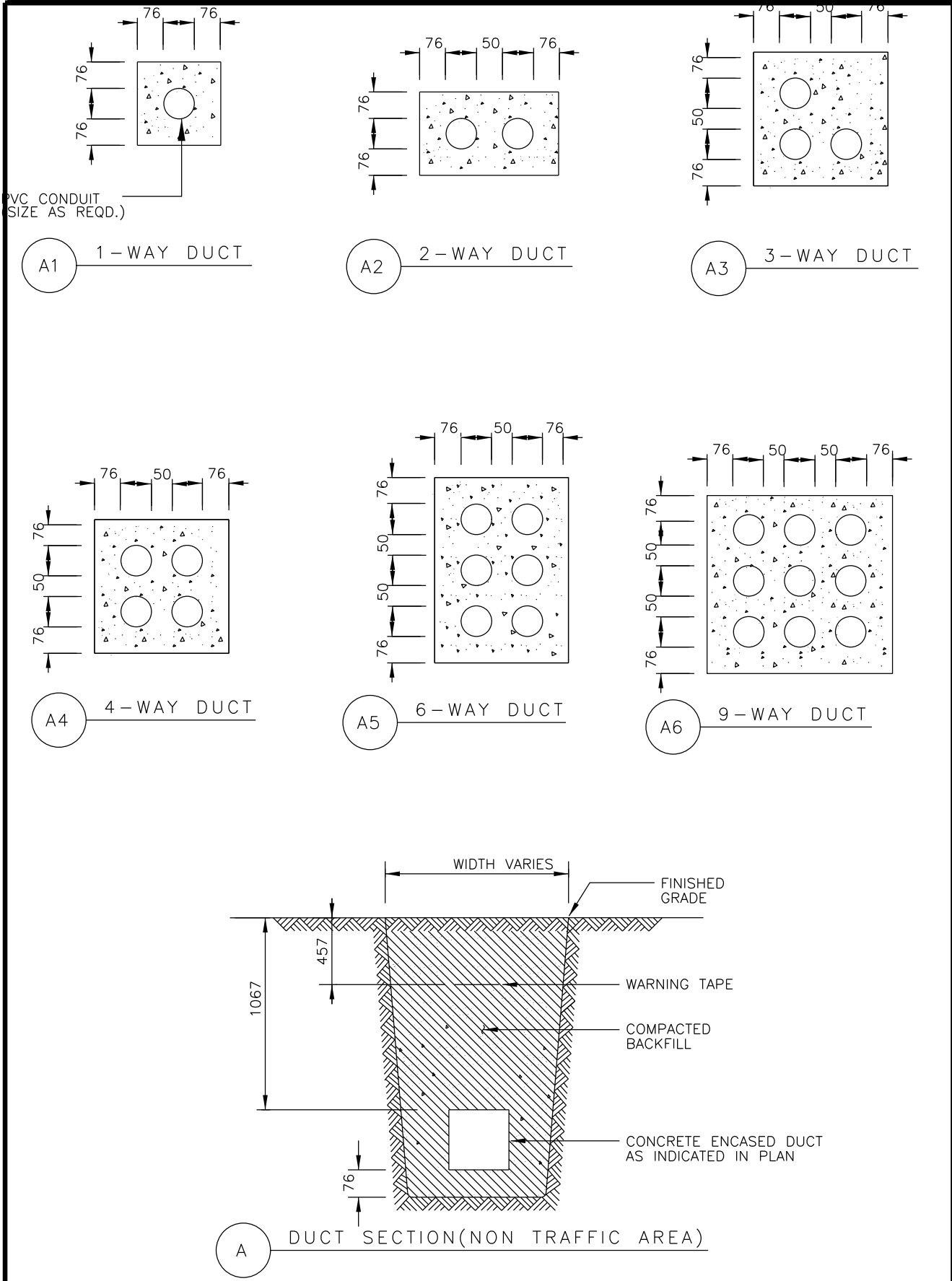


A DUCT SECTION DB (NON TRAFFIC AREA)

ELECTRICAL POWER DUCT DETAIL - 2

NOT TO SCALE

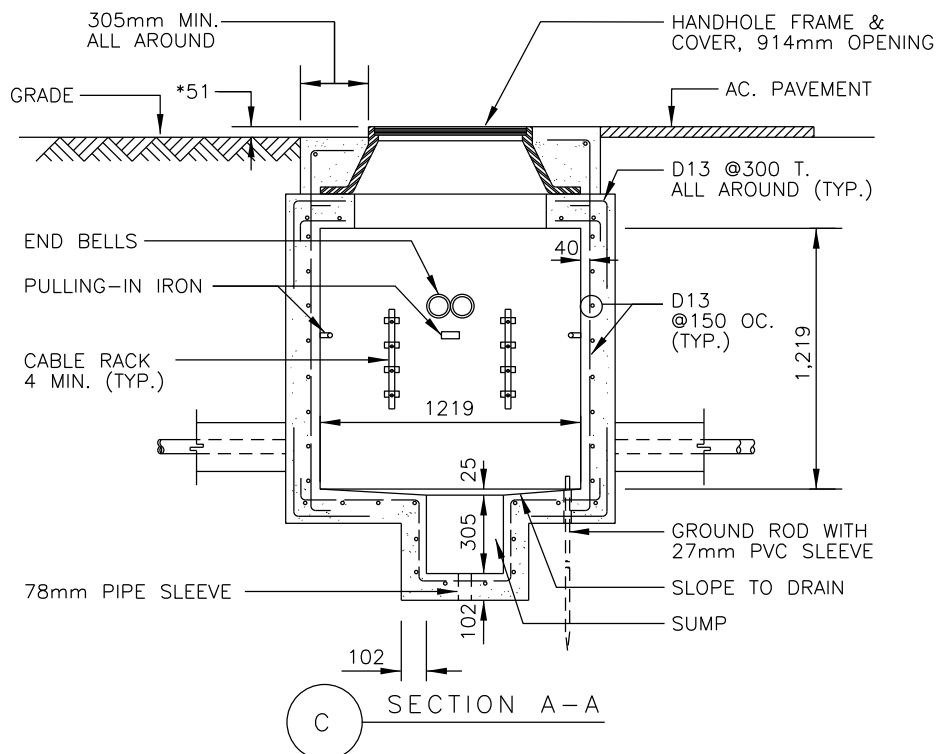
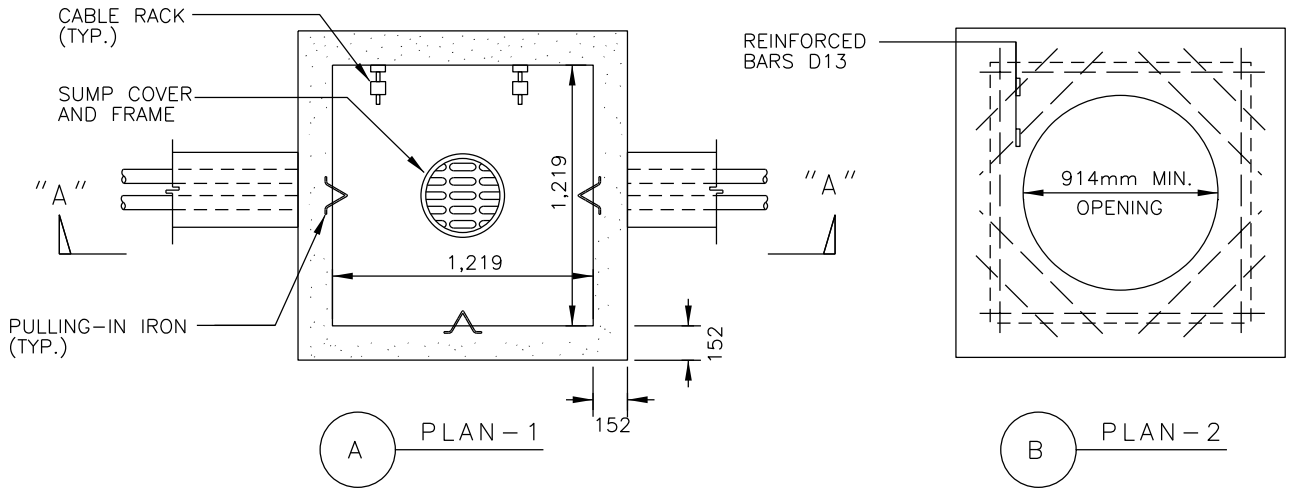
	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	ELECTRICAL POWER DUCT DETAIL - 2	337002.0010	E - 312



ELECTRICAL POWER DUCT DETAIL - 3

NOT TO SCALE

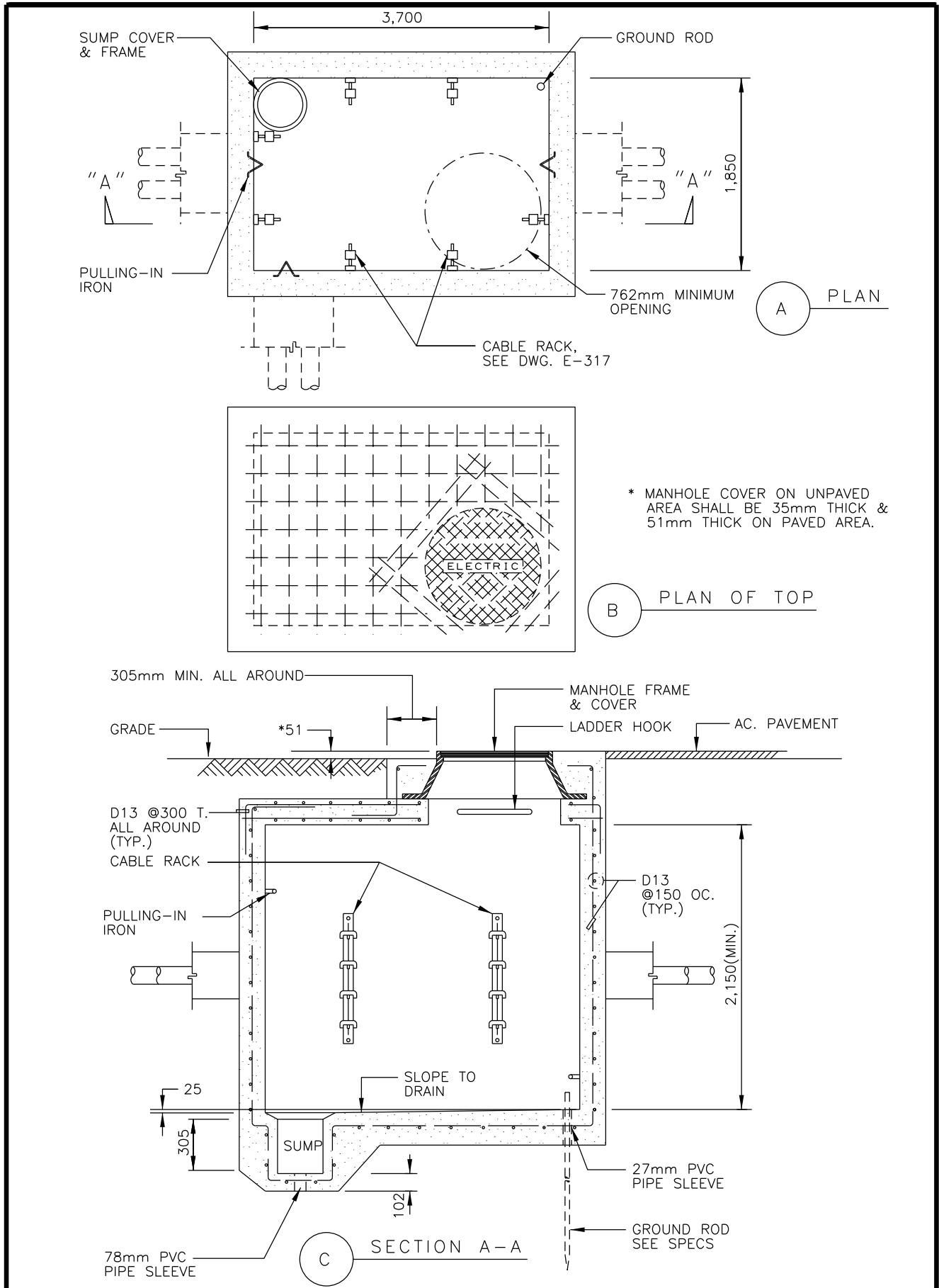
 <p>IMCOM</p>	<p>O&MA STANDARD DETAILS, KOREA</p>		<p>OMA SPEC</p>	<p>DWG NO.</p>
	<p>TITLE</p>	<p>ELECTRICAL POWER DUCT DETAIL - 3</p>	<p>337002.0010</p>	<p>E - 313</p>



- NOTE:**
1. TOP OF HANDHOLE COVERS SHALL BE FLUSH WITH FINISH SURFACE OF PAVING OR 51mm FOR UNPAVED AREA.
 2. THICKNESS OF CONCRETE;
 MANHOLE WALLS, TOP AND FLOOR (FOR HANDHOLE)-----152mm
 SUMP WALLS AND FLOOR-----102mm
 3. REINFORCING BARS; NO.4 ROUND DEFORMED.
 4. WALL & FLOOR (FOR HANDHOLE); MIN. 203mm CENTERS W/ 305mm HOOK AT CORNERS AND INTERSECTIONS.
 5. TOP (FOR HANDHOLE); AS SHOWN AT A MIN. 51mm FOR OPENING AND WITH A MIN. 102mm SPACING BETWEEN BARS.
 6. CONCRETE MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 27 MPA. THE REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 OR KS B 3540 SD40.
 7. CONCRETE STRUCTURE IS SCHEMATIC ONLY. IT SHALL BE VERIFIED BY THE DESIGNER.

ELECTRICAL HANDHOLE DETAIL(Low VOLTAGE ONLY)
 NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	ELECTRICAL HANDHOLE DETAIL(Low VOLTAGE ONLY)	337002.0010	E - 314



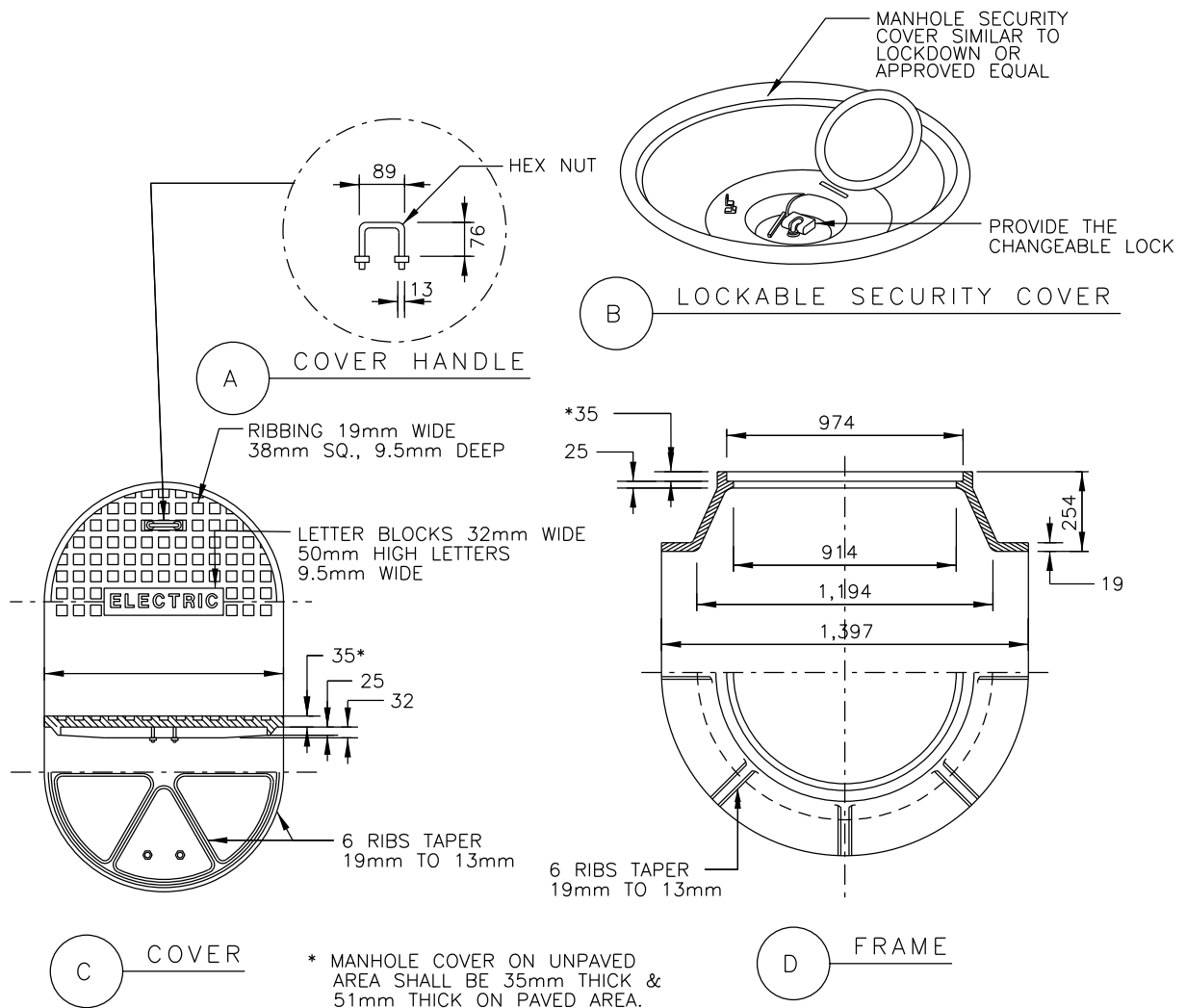
ELECTRICAL MANHOLE & APPURTENANCES DETAIL - 1

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	ELECTRICAL MANHOLE & APPURTENANCES DETAIL - 1	337002.0010	E - 315

NOTE:

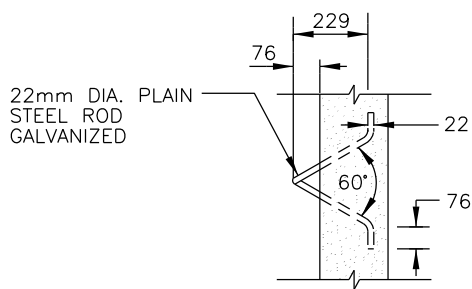
1. THICKNESS OF CONCRETE
 MANHOLE WALLS, TOP AND FLOOR (FOR MANHOLE)-----203mm
 SUMP WALLS AND FLOOR-----102mm
2. REINFORCING BARS; NO.4 ROUND DEFORMED.
3. WALL & FLOOR (FOR MANHOLE); MIN. 305mm CENTERS
 W/305mm HOOK AT CORNERS AND INTERSECTIONS.
4. TOP (FOR MANHOLE); AS SHOWN AT A MIN. 102mm CENTER
 Laterally and longitudinally as appropriate, except
 that opening also provide an additional bar at a
 51mm spacing and 2 diagonal lateral or longitudinal
 bars.
5. THE TOP OF MANHOLE COVERS SHALL BE FLUSH WITH THE
 FINISHED SURFACE OF THE PAVING. IN UNPAVED AREAS THE
 TOP OF MANHOLE COVERS SHALL BE APPROX. 13mm ABOVE
 THE FINISHED GRADE.
6. ALL DIMENSIONS ARE IN MILLIMETERS (mm).



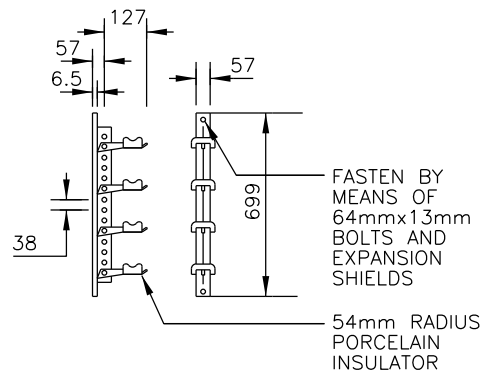
ELECTRICAL MANHOLE & APPURTENANCES DETAIL - 2

NOT TO SCALE

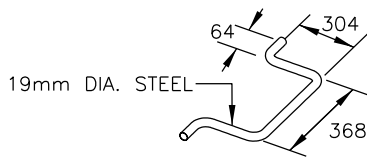
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	ELECTRICAL MANHOLE & APPURTENANCES DETAIL - 2	337002.0010	E - 316



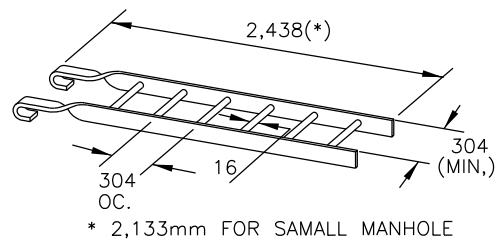
PULLING-IN IRON



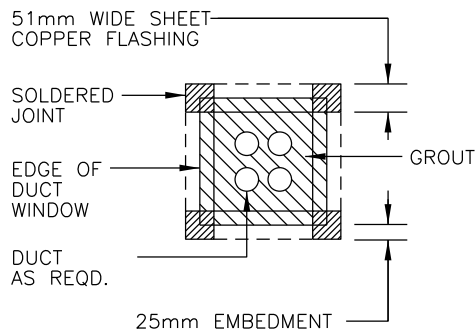
CABLE RACK



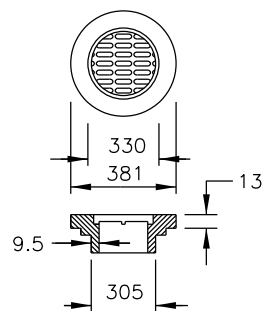
LADDER HOOK



HOOKED M.H. LADDER



DUCT WINDOW SEALING

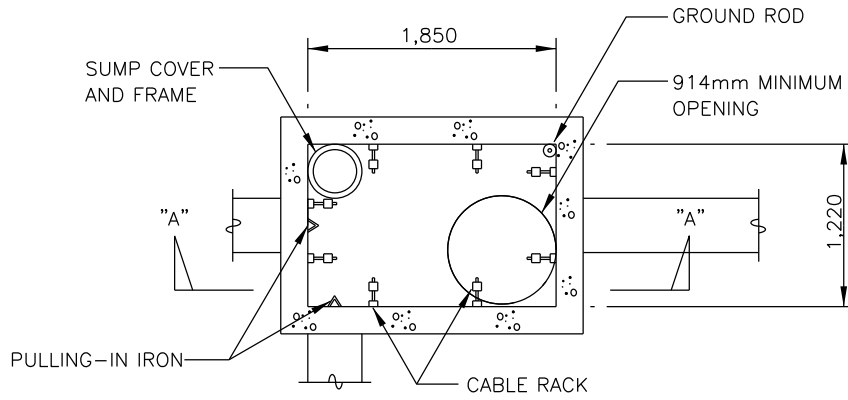


SUMP FRAME AND COVER

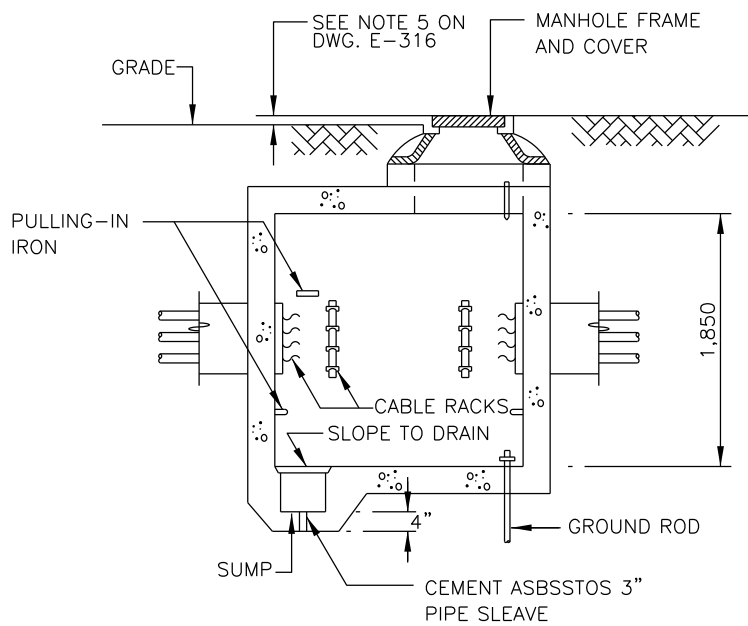
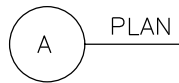
ELECTRICAL MANHOLE & APPURTENANCES DETAIL - 3

NOT TO SCALE

 <p>IMCOM</p>	<p>O&MA STANDARD DETAILS, KOREA</p>		<p>OMA SPEC</p>	<p>DWG NO.</p>
	<p>TITLE</p>	<p>ELECTRICAL MANHOLE & APPURTENANCES DETAIL - 3</p>	<p>337002.0010</p>	<p>E - 317</p>



* FOR SMALL MANHOLE



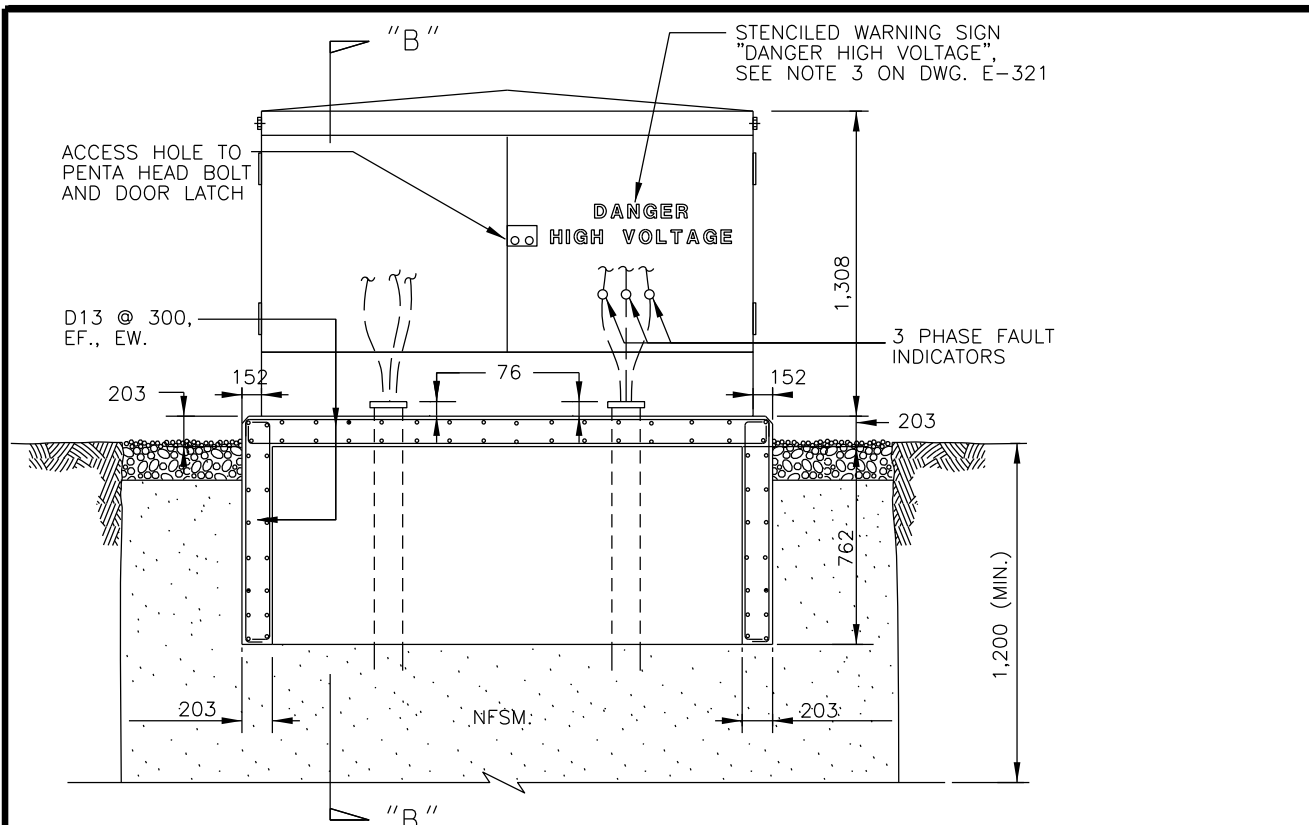
* FOR SMALL MANHOLE



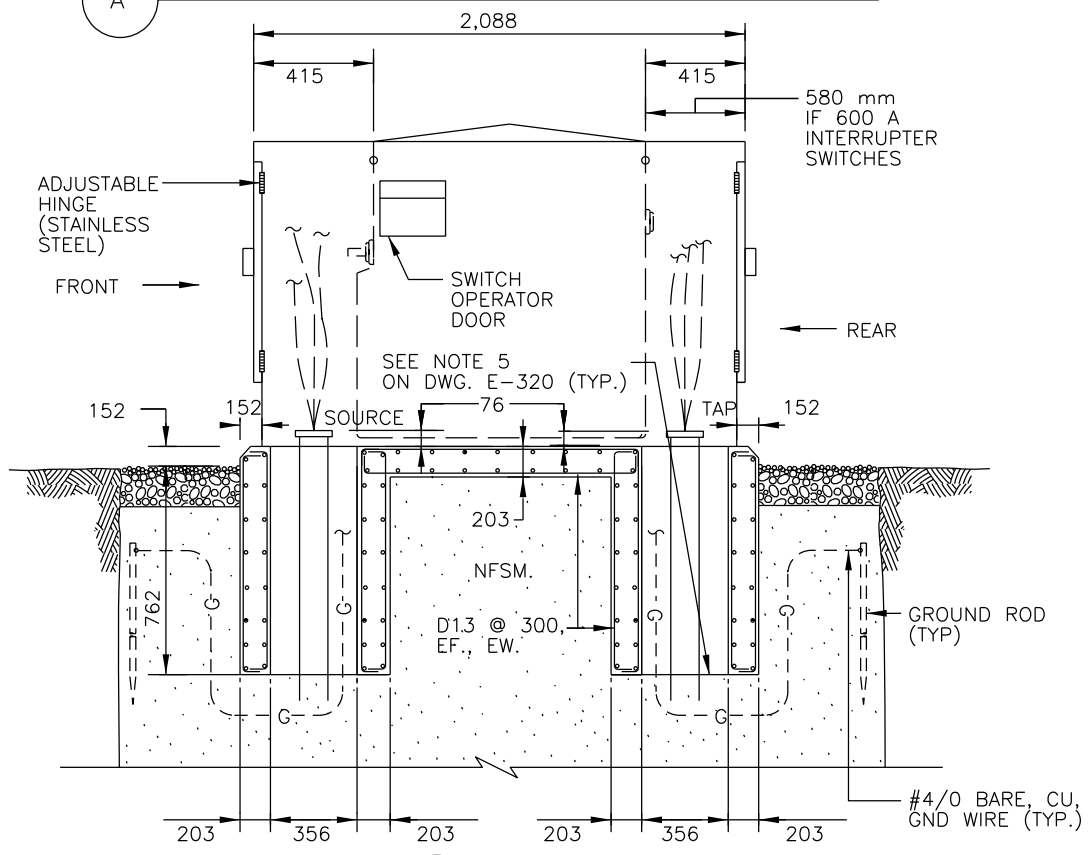
ELECTRICAL MANHOLE & APPURTENANCE DETAIL - 4

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	ELECTRICAL MANHOLE & APPURTENANCES DETAIL - 4	337002.0010	E - 318



A FRONT & REAR ELEVATION(DOOR CLOSED)

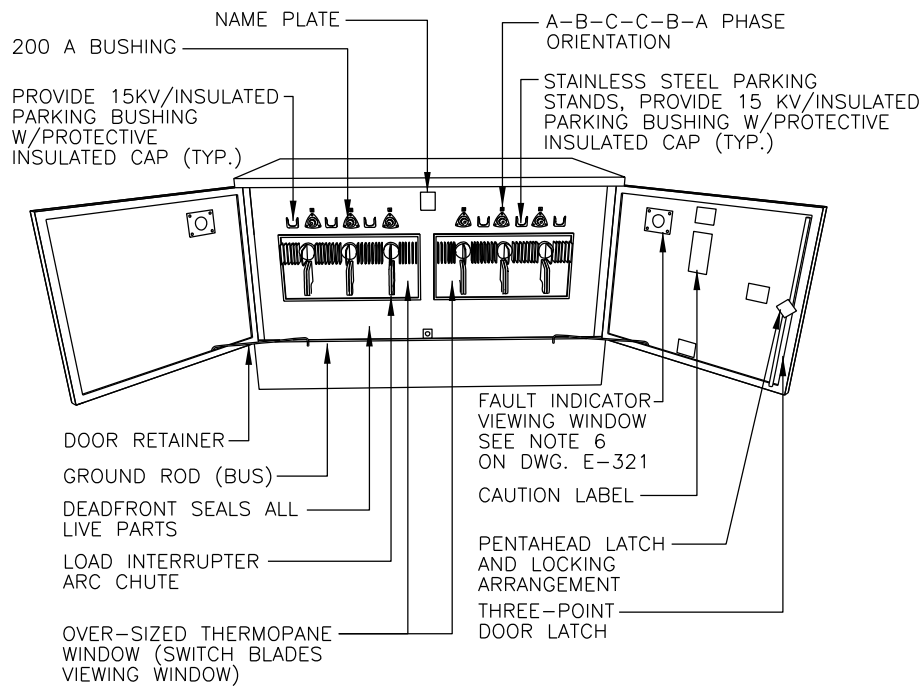


B SECTION B-B

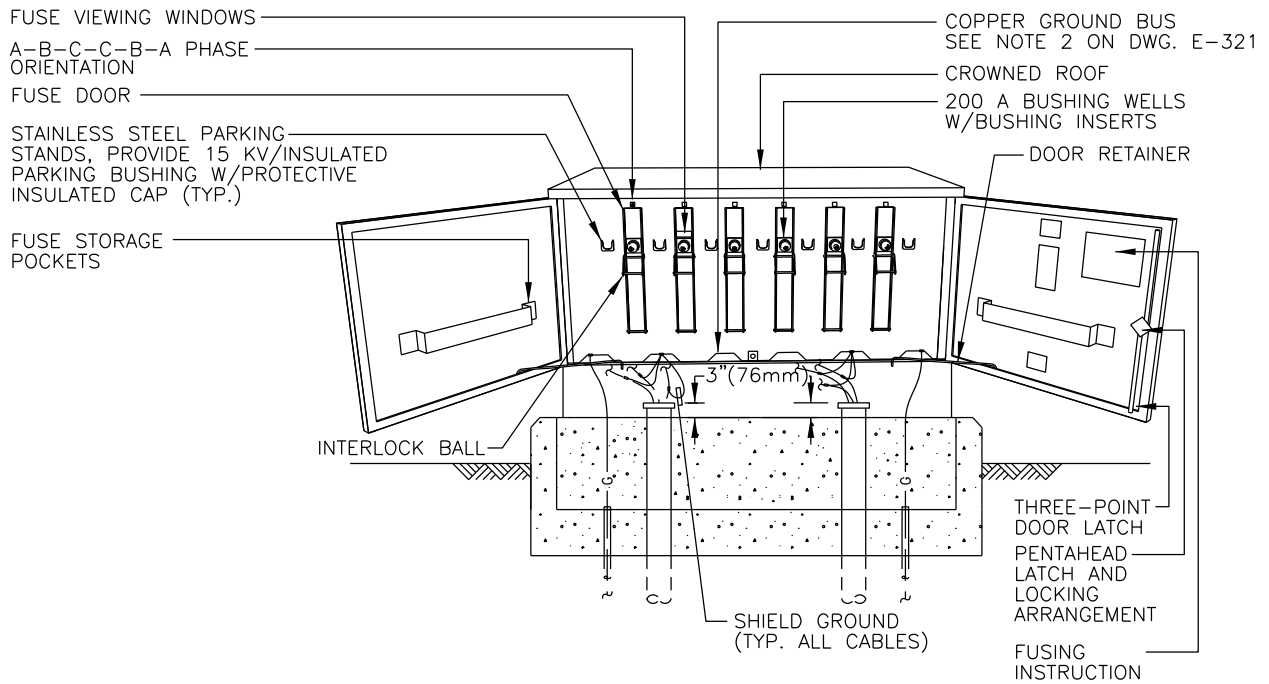
PAD MOUNTED SWITCHGEAR DETAIL - 1

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PAD MOUNTED SWITCHGEAR DETAIL - 1	337002.0010	E - 319



C FRONT VIEW(DOOR OPEN)

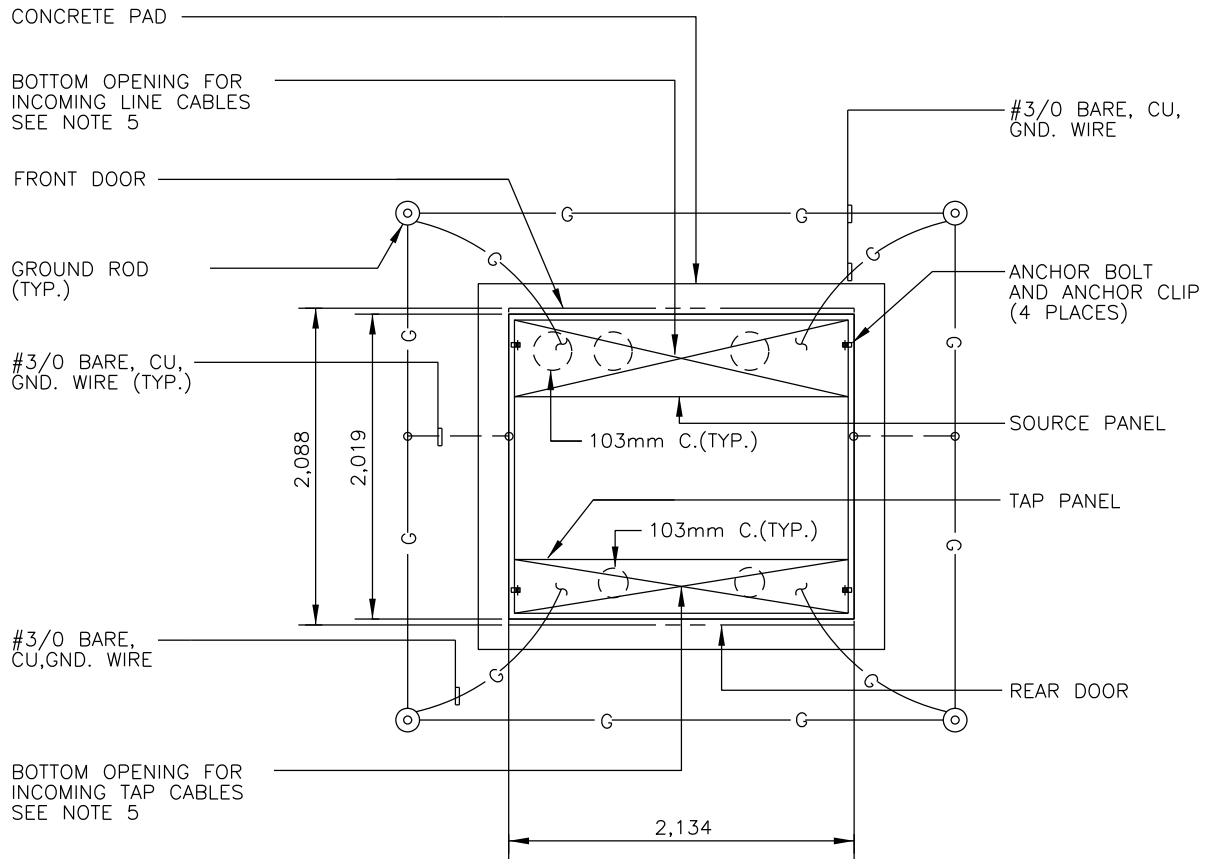


D GROUNDING DETAIL-REAR VIEW(DOOR OPEN)

PAD MOUNTED SWITCHGEAR DETAIL - 2

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PAD MOUNTED SWITCHGEAR DETAIL - 2	337002.0010	E - 320



(E) PLAN - CONCRETE PAD

*DIMENSIONS FOR GUIDE ONLY. VERIFY W/MANUFACTURERS.

PAD MOUNTED SWITCHGEAR DETAIL - 3

NOT TO SCALE

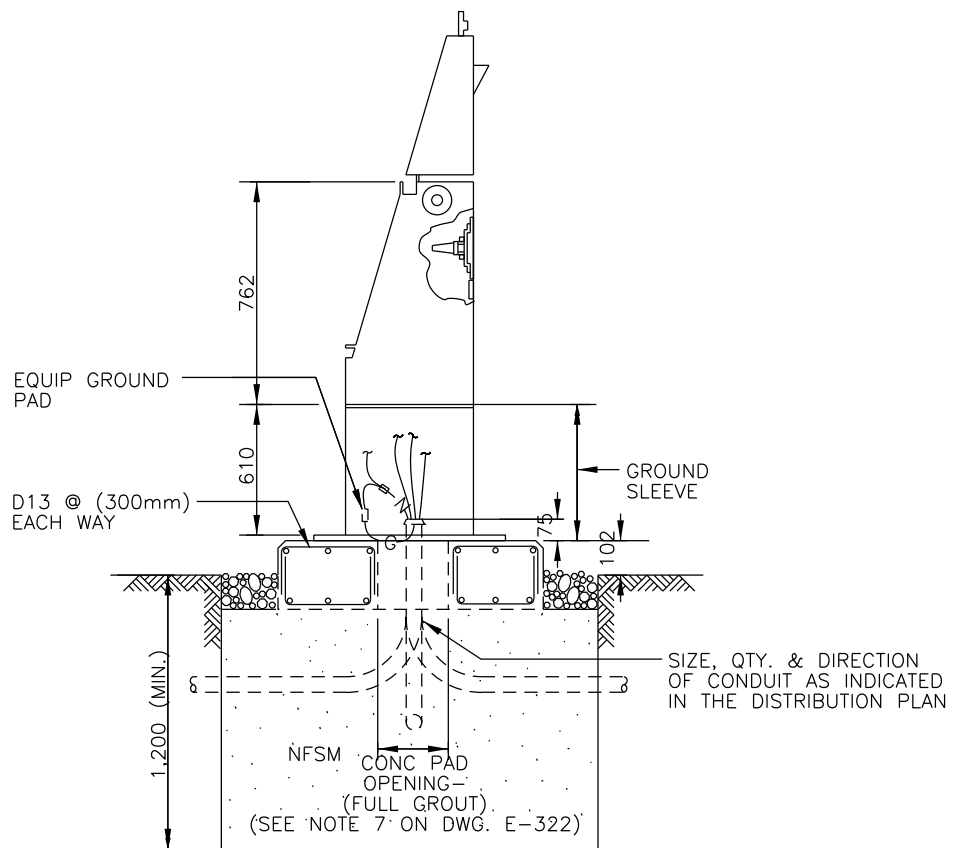
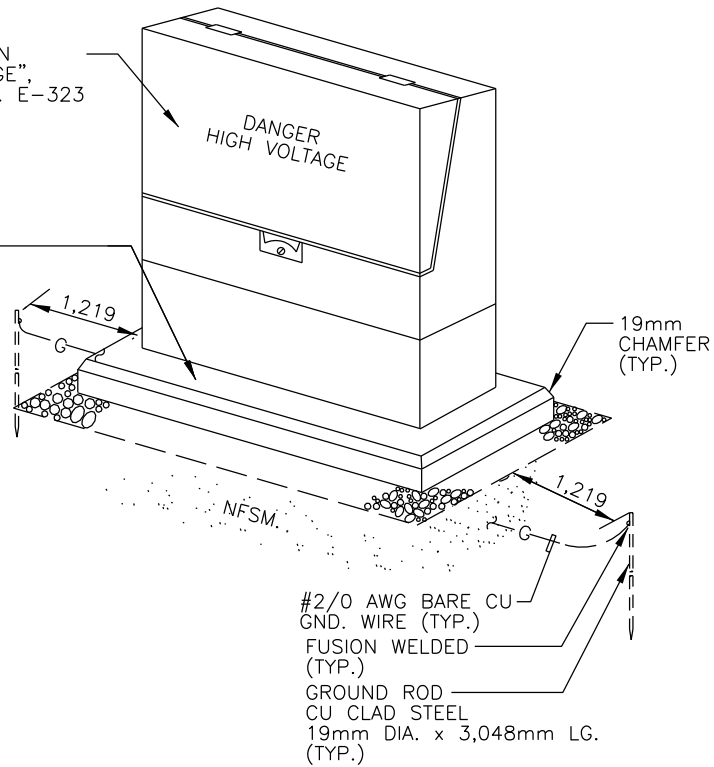
NOTE:

1. INDICATED DIMENSIONS OF SWITCH ARE APPROXIMATE, USE ACTUAL DIMENSIONS OF MANUFACTURERS DRAWING FOR CONSTRUCTION.
2. COMPARTMENT GROUND BUSES SHALL EXTEND THE FULL WIDTH OF EACH SWITCH COMPARTMENT AND BE ATTACHED TO EQUIP GROUND PADS. GROUND BUS AMPACITIES SHALL BE EQUAL TO OR GREATER THAN THE SWITCH RATINGS IN EACH COMPARTMENT. ALL GROUND PADS SHALL BE INTERNALLY CONNECTED WITH A 200 AMP BUS.
3. DETAILS OF THE WARNING SIGN SHALL BE IAW IEEE STD.
4. ALL GRAVEL FILL AROUND FOUNDATION SHALL BE COARSE, IN CONFORMANCE TO THE REQUIREMENTS OF ASTM, C33, SIZE NO. 467.
5. PROVIDE MASONRY GROUT TO FILL THE RECTANGULAR HOLE UPON COMPLETION OF EQUIPMENT INSTALLATION. SEE SPECS SECTION 33 70 02.00 10.
6. PROVIDE 3 PHASE CABLE FAULT INDICATORS ON THE SWITCH SIDE.
7. CONCRETE STRUCTURE IS SCHEMATIC ONLY. IT SHALL BE VERIFIED BY THE DESIGNERS.

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PAD MOUNTED SWITCHGEAR DETAIL - 3	337002.0010	E - 321

STENCIL WARNING SIGN
 "DANGER HIGH VOLTAGE".
 SEE NOTE 6 ON DWG. E-323

SEE NOTES 8
 ON DWG. E-323

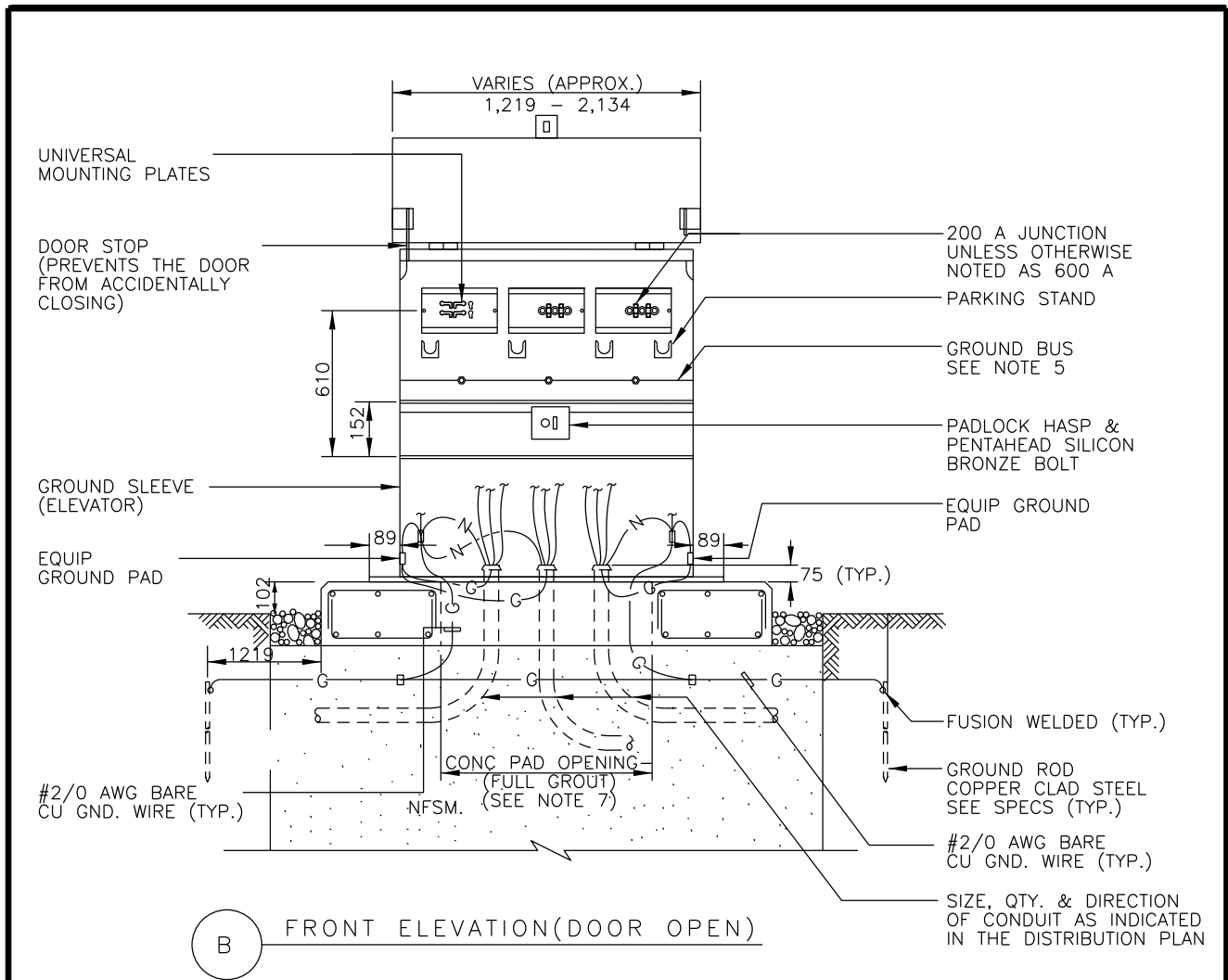


A SIDE ELEVATION (DOOR OPEN)

PAD MOUNTED JUNCTION BOX DETAIL - 1

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PAD MOUNTED JUNCTION BOX DETAIL - 1	337002.0010	E - 322



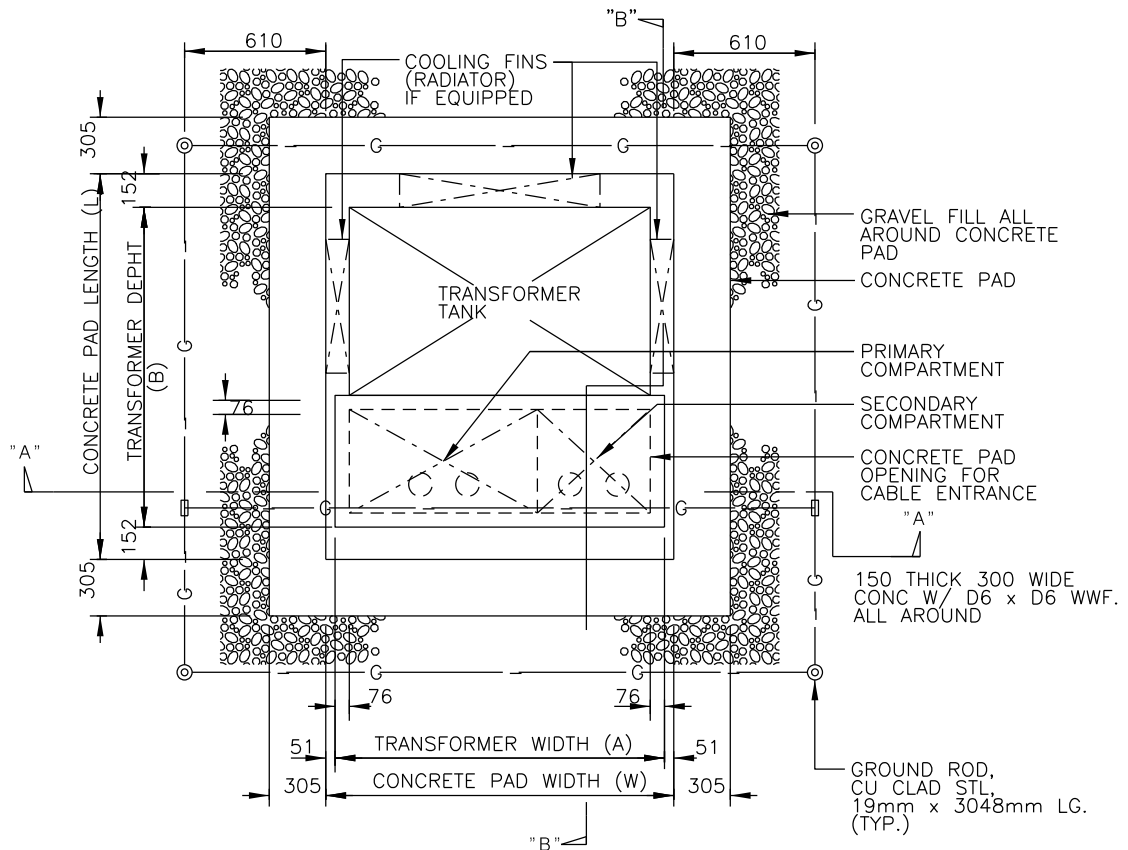
B FRONT ELEVATION(DOOR OPEN)

PAD MOUNTED JUNCTION DETAIL - 2
NOT TO SCALE

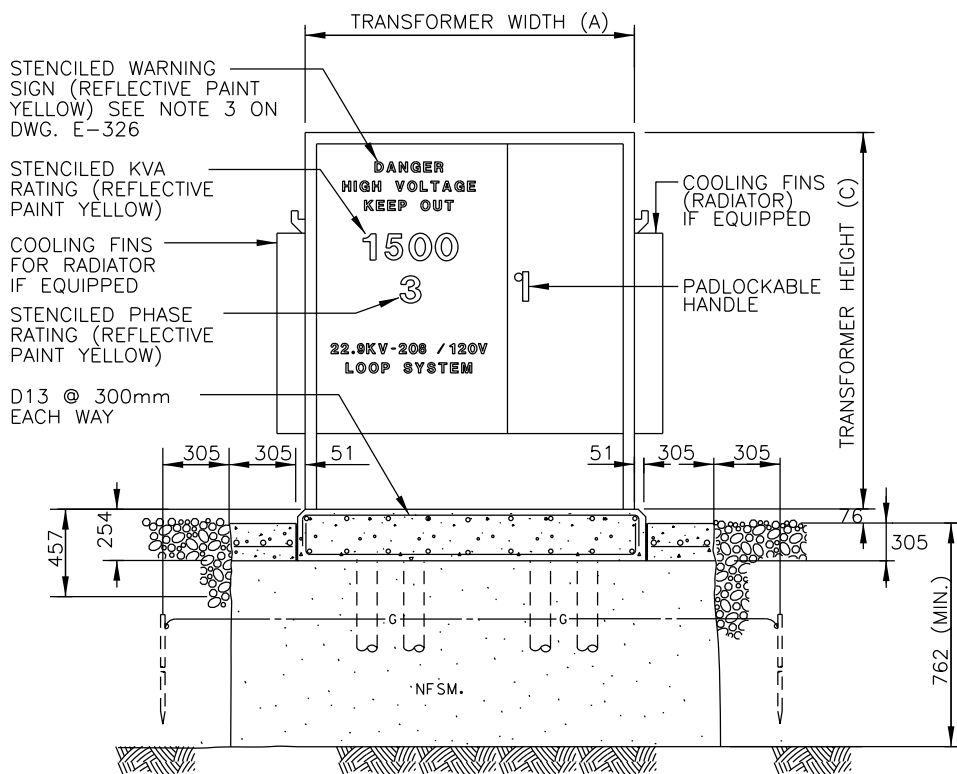
NOTE:

1. INDICATED MAXIMUM & MINIMUM DIMENSION OF PAD MOUNTED JUNCTION IS APPROXIMATE. USE ACTUAL DIMENSION OF MANUFACTURER'S DRAWING FOR CONSTRUCTION.
2. OBTAIN THE MANUFACTURER'S CONSTRUCTION DRAWING OF THE PAD MOUNTED JUNCTION TO DETERMINE ANCHOR BOLT LOCATIONS BEFORE CONSTRUCTION OF THE CONCRETE PAD.
3. PAD MOUNTED JUNCTION SHALL BE 3 PHASE, -- KV, 200 AMPS UNLESS OTHERWISE NOTED AS 600 A, WITH 3 WAY, 4 WAY OR 5 WAY JUNCTIONS PER PHASE AS INDICATED IN THE NEW DISTRIBUTION SYSTEM ONE LINE DIAGRAM.
4. PROVIDE --KV INSULATED PROTECTIVE CAP ON ALL SPARE PHASE BUSHINGS.
5. A GROUND BUS SHALL PROVIDED AND EXTEND THE FULL WIDTH OF THE COMPARTMENT. THE GROUND BUS SHALL BE ATTACHED TO EQUIP GROUND PADS/NUTS AND SHALL ACCOMMODATE CONNECTORS FOR ATTACHMENT OF NEUTRAL CABLES AND GROUND WIRES. GROUND BUS AMPACITY SHALL BE EQUAL TO THE JUNCTION RATINGS.
6. DETAILS OF THE WARNING SIGN SHALL BE IAW IEEE STD.
7. UPON COMPLETION OF EQUIPMENT INSTALLATION THE CONCRETE PAD OPENING SHALL BE FILLED WITH MASONRY GROUT PER SPEC 33 70 02.00 10.
8. THE STRENGTH OF CONCRETE USED FOR FOUNDATION SHALL BE 4000 PSI.

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PAD MOUNTED JUNCTION BOX DETAIL - 2	337002.0010	E - 323



A PLAN-TRANSFORMER PAD

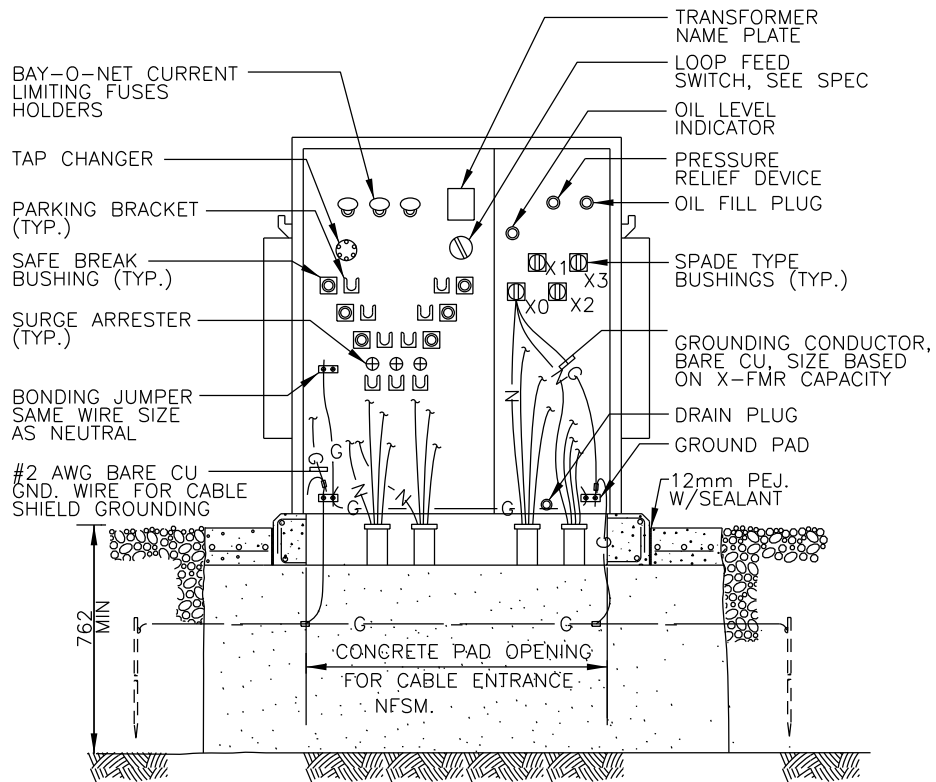


B FRONT-ELEVATION

PAD MOUNTED TRANSFORMER DETAIL - 1

NOT TO SCALE

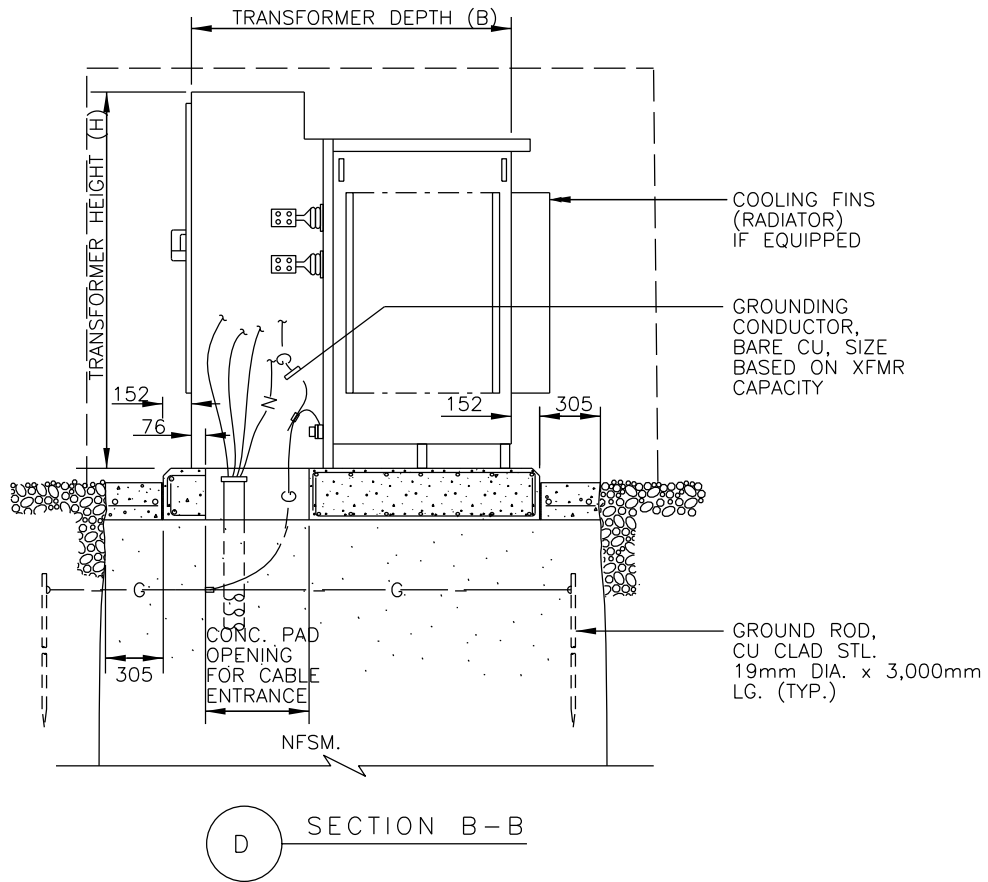
 <p>IMCOM</p>	<p>O&MA STANDARD DETAILS, KOREA</p>		<p>OMA SPEC</p>	<p>DWG NO.</p>
	<p>TITLE</p>	<p>PAD MOUNTED TRANSFORMER DETAIL - 1</p>	<p>337002.0010</p>	<p>E - 324</p>



C SECTION A-A

PAD MOUNTED TRANSFORMER DETAIL - 2
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PAD MOUNTED TRANSFORMER DETAIL - 2	337002.0010	E - 325



NOTE:

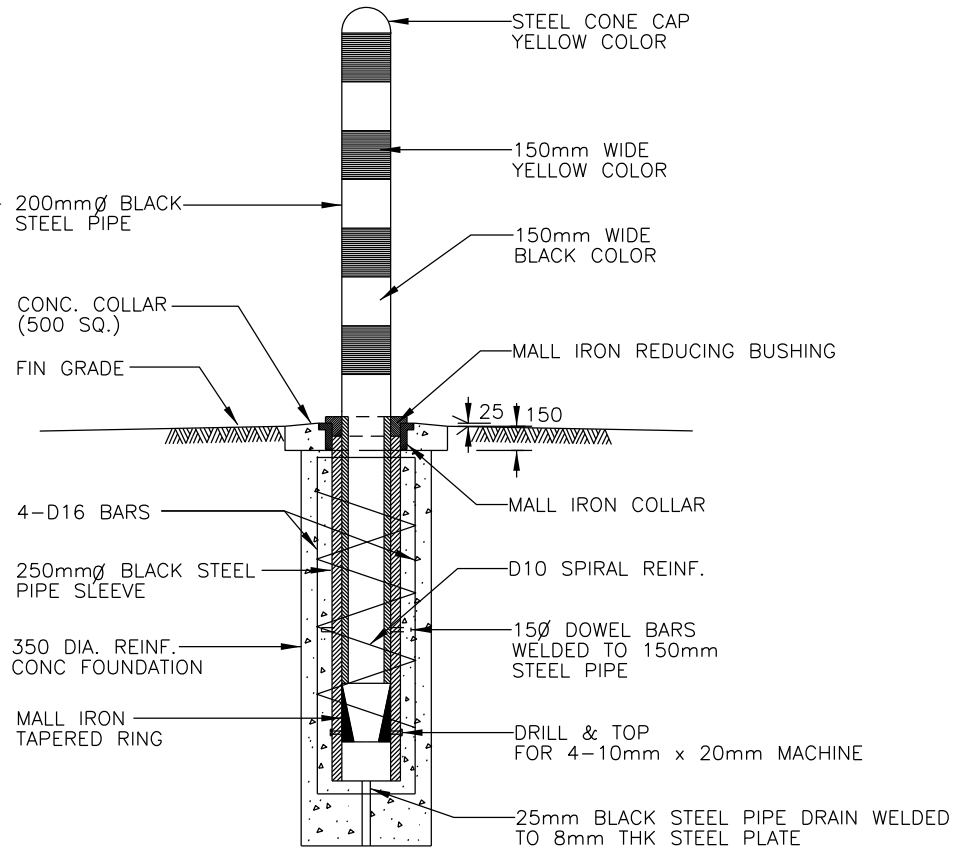
1. THREE PHASE TRANSFORMER SHALL BE RATED 22.9 KV PRIMARY, DELTA CONNECTED AND ---/--- V WYE SECONDARY UNLESS OTHERWISE NOTED.
2. DETAILS OF THE WARNING SIGN SHALL BE IAW IEEE STD.
3. INDICATED DIMENSIONS OF TRANSFORMER IS APPROXIMATE. USE ACTUAL DIMENSIONS OF MANUFACTURER'S DRAWING FOR CONSTRUCTION.
4. EARTH RESISTANCE SHALL NOT EXCEED 5 OHMS.
5. PROVIDE DATE OF INSTALLATION OF THE EQUIPMENT TO BE PAINTED IN THE ENCLOSURES.
6. FINISH COLOR FOR OUTDOOR CABINET SHALL BE MANUFACTURER'S STANDARD GREEN.
7. PROVIDE 25 KV INSULATED PARKING BUSHING W/INSULATED PROTECTIVE CAP ON ALL PARKING STANDS.
8. UPON COMPLETION OF EQUIPMENT INSTALLATION, THE CONCRETE PAD CABLE OPENING SHALL BE FILLED W/MASONRY GROUT PER SPEC 33 70 02. 00 10

TRANSFORMER				
CAPACITY KVA	APPROX.DIMENSION(mm)			PAD SIZE (APPROX.)
	A	B	C	
---	---	---	---	--- x ---

PAD MOUNTED TRANSFORMER DETAIL - 3

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PAD MOUNTED TRANSFORMER DETAIL - 3	337002.0010	E - 326



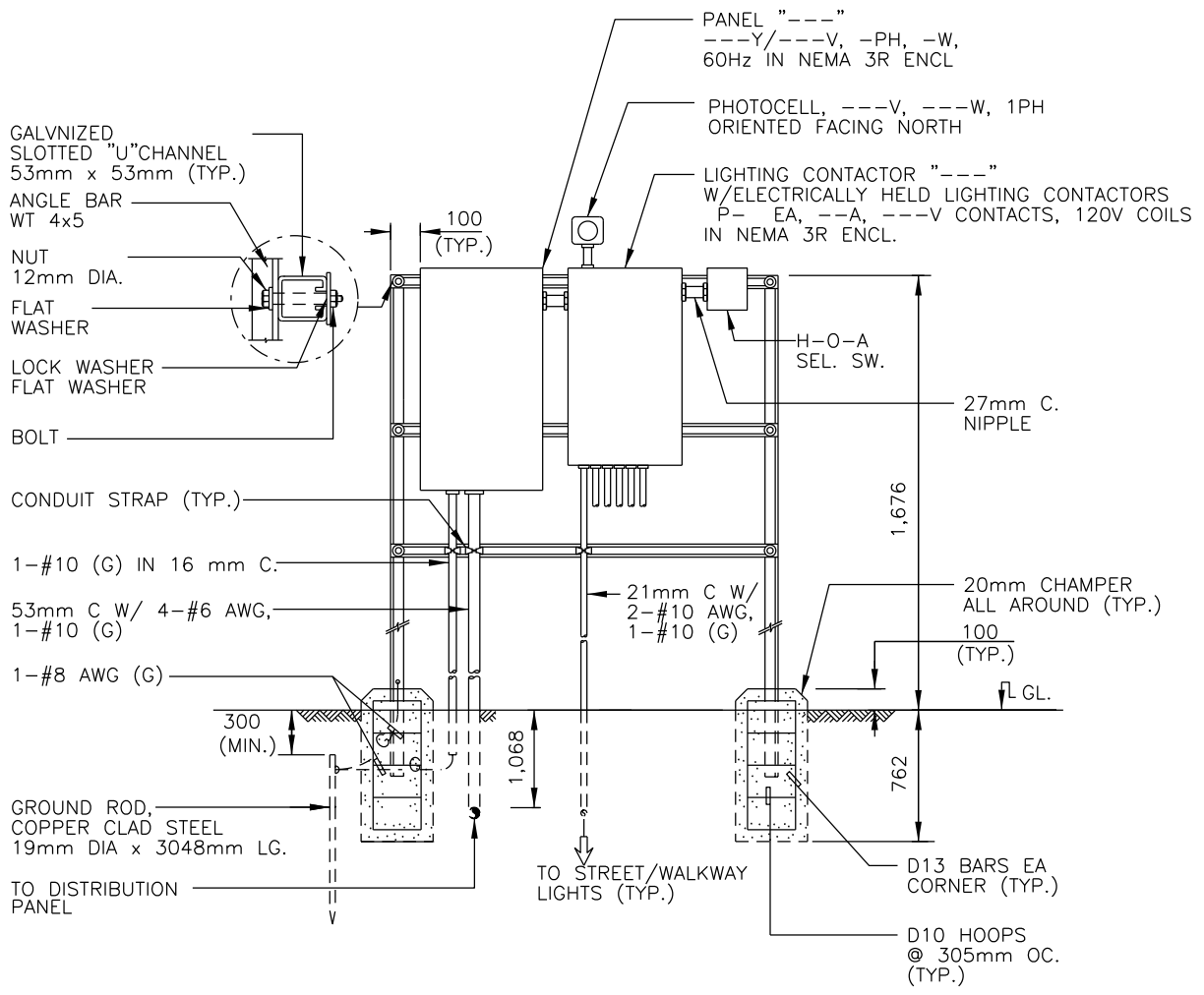
NOTE:

1. FOOTING TO BE POURED IN PLACE AGAINST UNDISTURBED SOIL.

GUARD POST INSTALLATION DETAIL

NOT TO SCALE

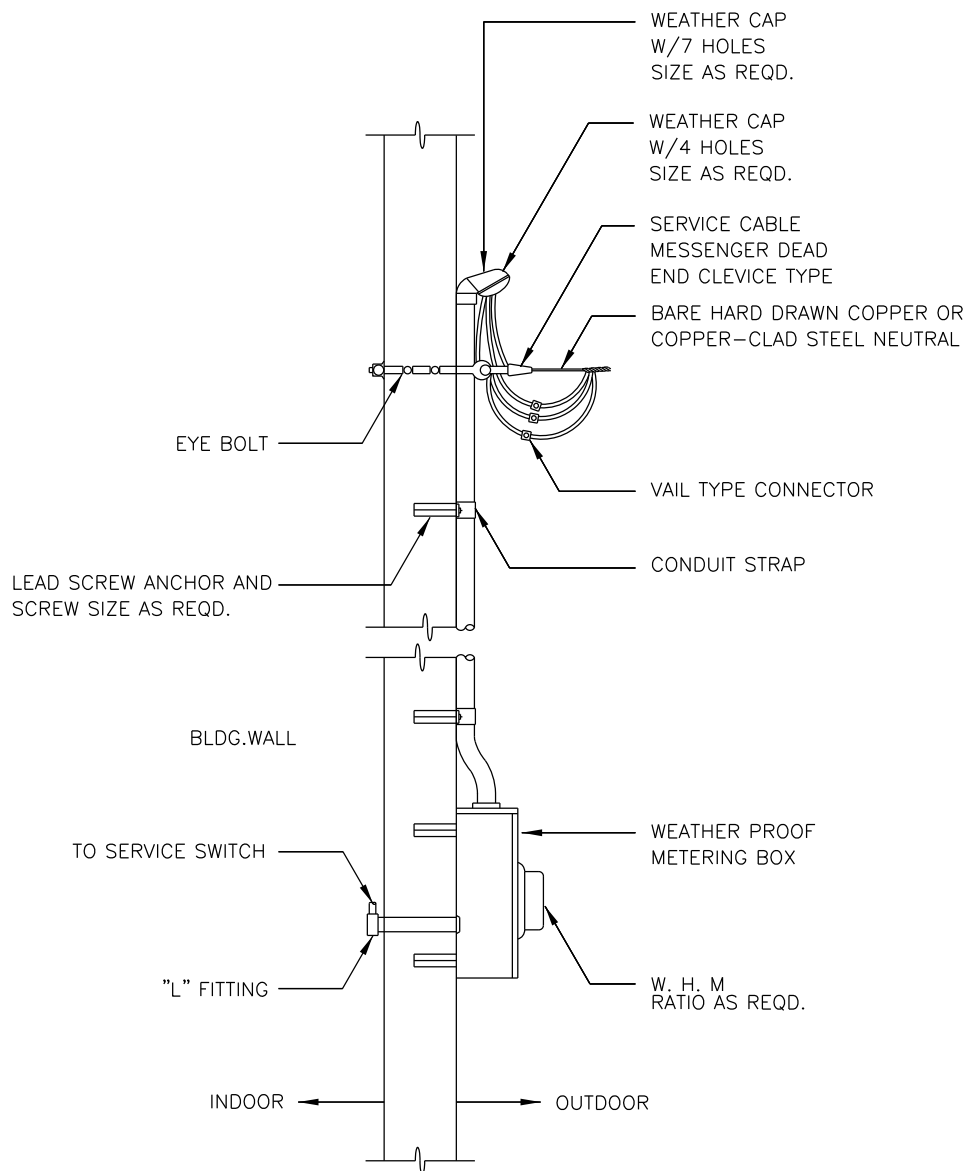
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	GUARD POST INSTALLATION DETAIL	055013	E - 327



EQUIPMENT MOUNTING DETAIL

NOT TO SCALE

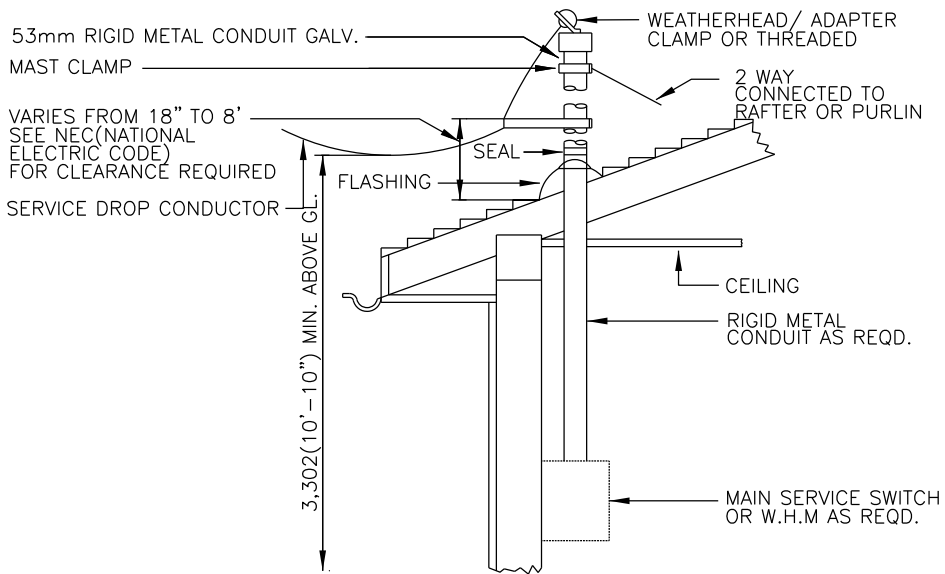
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	EQUIPMENT MOUNTING DETAIL	337101	E - 328



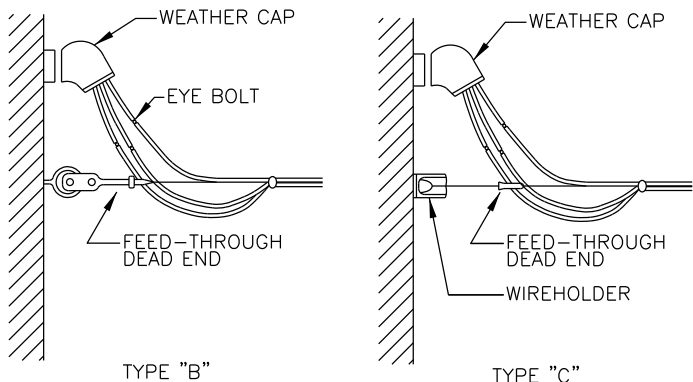
WHATTHOUR-METER MOUNTING DETAIL

NOT TO SCALE

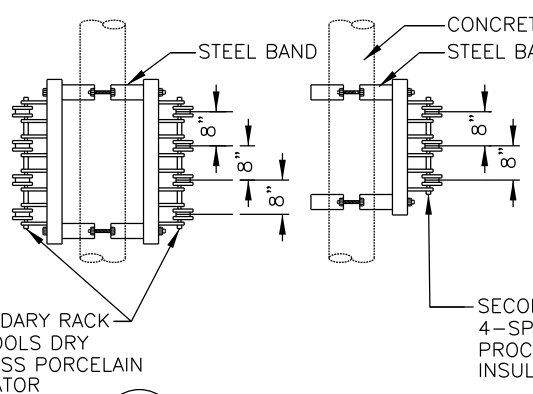
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	WATTHOUR-METER MOUNTING DETAIL	337101	E - 329



TYPE "A"
 A SPECIAL SERVICE ENTRANCE DETAIL



TYPE "B" TYPE "C"
 DEAD-ENDING SERVICE DROP CABLE TYPE "B" FEED-THROUGH DEAD-END FIXTURE ATTACHED TO EYE BOLT. TYPE "C" FEED-THROUGH DEAD-END FIXTURE ATTACHED TO WIRE HOLDER

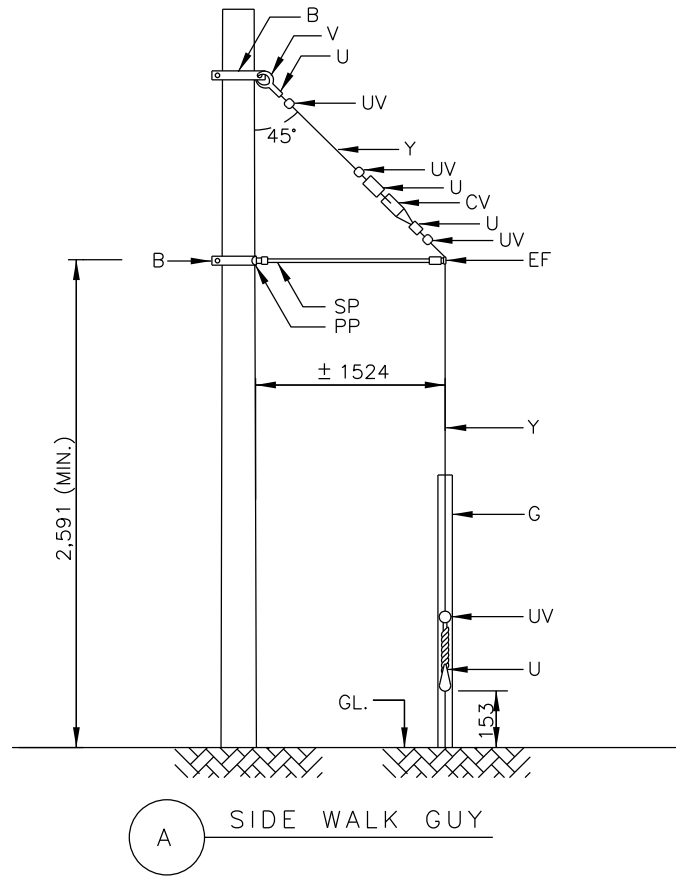


SECONDARY RACK TYPE	
K 1	1 - SPOOL
K 2	2 - SPOOL
K 3	3 - SPOOL
K 4	4 - SPOOL

STEEL BAND	
WIRE SIZE	BAND TYPE
#8 - #4	B3-1 OR B4-1
#2 - #3/0	B3-2 OR B4-2

B RACK AND BAND INSTALLATION DETAIL
 SERVICE ENTRANCE AND RACK INSTALLATION DETAIL
 NOT TO SCALE

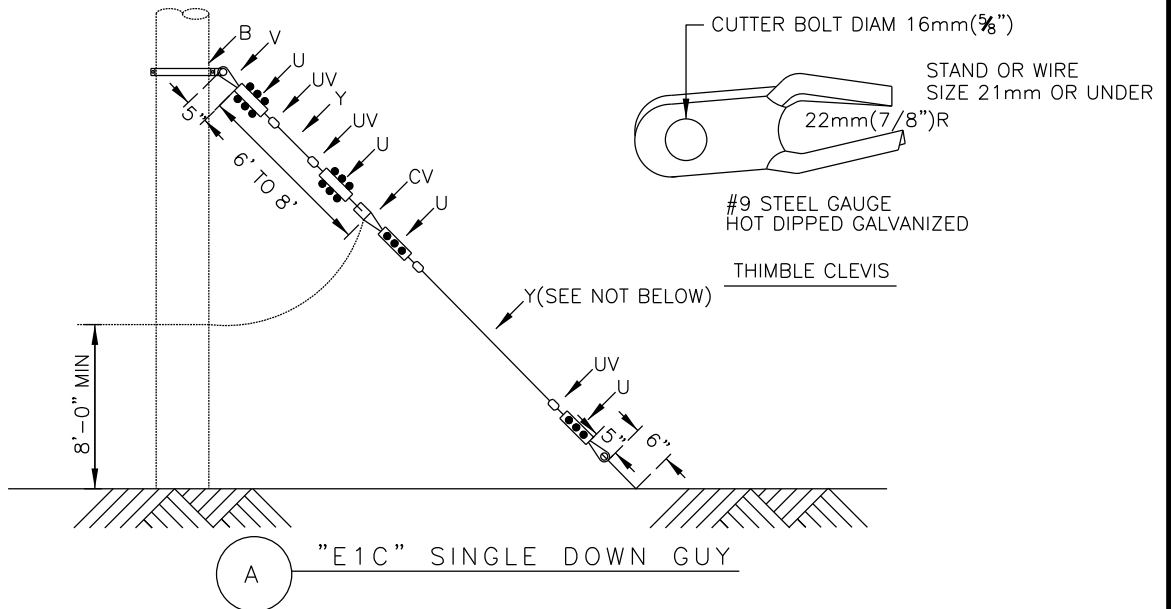
	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	SERVICE ENTRANCE AND RACK INSTALLATION DETAIL	337101	E - 330



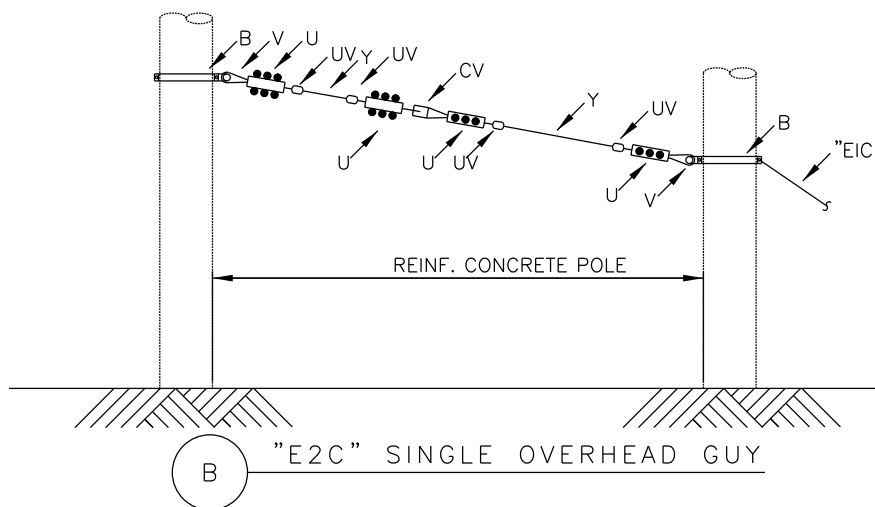
"EIC" SINGLE DOWN GUY					
ITEM	MATERIAL	EIC-1a	EIC-2a	EIC-3a	EIC-4a
		3/8" GUY NO. REQD.	7/16" GUY NO. REQD.	1/2" GUY NO. REQD.	5/8" GUY NO. REQD.
U	CLAMP, GUY. 3-BOLT 6" LONG	4	4	4	4
U V	WIRE ROPE CLIP OR MOUSING	4	4	4	4
C V	INSULATOR, STRAIN	1	1	1	1
V	THIMBLE CLEVIS	1	1	1	1
Y	GUY WIRE, 7 STRAND	REQD. LENGTH	REQD. LENGTH	REQD. LENGTH	REQD. LENGTH
B	POLE BAND "B2-2"	1			
B	POLE BAND "B2-3"		1		
B	POLE BAND "B2-4"			1	1
E F	GUY CLAMP 2"Ø PIPE SIZE	1	1		
E F	GUY CLAMP 2 1/2" PIPE SIZE			1	1
P P	POLE PLATE 2"Ø PIPE SIZE	1	1		
P P	POLE PLATE 2 1/2" PIPE SIZE			1	1
G	GUY WIRE PROTECTOR FULL ROUND TYPE, 2" DIA. 8 3/8" OVERLAP 8'-0" LG.	1	1	1	1
S P	STEEL PIPE 2"Ø	1	1		
S P	STEEL PIPE 2 1/2"Ø			1	1

GUY ASSEMBLY FOR SIDE WALK
 NOT TO SCALE

	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	GUY ASSEMBLY FOR SIDE WALK	337101	E - 331



ITEM	MATERIAL	E1C-1	E1C-2	E1C-3	E1C-4
		3/8" GUY NO.REQD.	7/16" GUY NO.REQD.	1/2" GUY NO.REQD.	5/8" GUY NO.REQD.
U	CLAMP,GUY,3-BOLT 6" LONG	4	4	4	4
UV	WIRE ROPE CLIP OR MOUSING	4	4	4	4
CV	INSULATOR,STRAIN	1	1	1	1
V	THIMBLE CLEVIS	1	1	1	1
Y	GUY WIRE, 7 STRAND	REQD LENGTH	REQD LENGTH	REQD LENGTH	REQD LENGTH
B	POLE BAND, "B2-2"	1			
B	" " "B2-3"		1		
B	" " "B2-4"			1	1

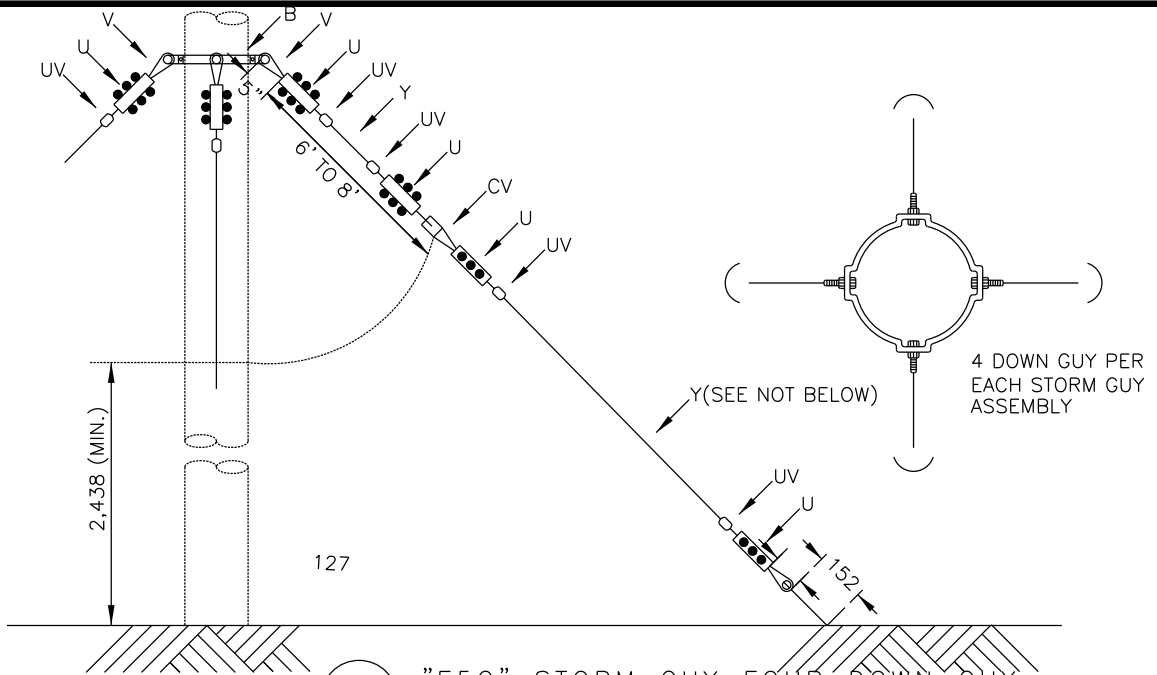


ITEM	MATERIAL	E2C-1	E2C-2	E2C-3	E2C-4
		3/8" GUY NO.REQD.	7/16" GUY NO.REQD.	1/2" GUY NO.REQD.	5/8" GUY NO.REQD.
U	CLAMP,GUY,3-BOLT 6" LONG	4	4	4	4
UV	WIRE ROPE CLIP OR MOUSING	4	4	4	4
CV	INSULATOR,STRAIN	1	1	1	1
V	THIMBLE CLEVIS	1	1	1	1
Y	GUY WIRE, 7 STRAND	REQD LENGTH	REQD LENGTH	REQD LENGTH	REQD LENGTH
B	POLE BAND, "B2-2"	1			
B	" " "B2-3"		1		
B	" " "B2-4"			1	1

GUY AND ANCHOR DETAIL - 1

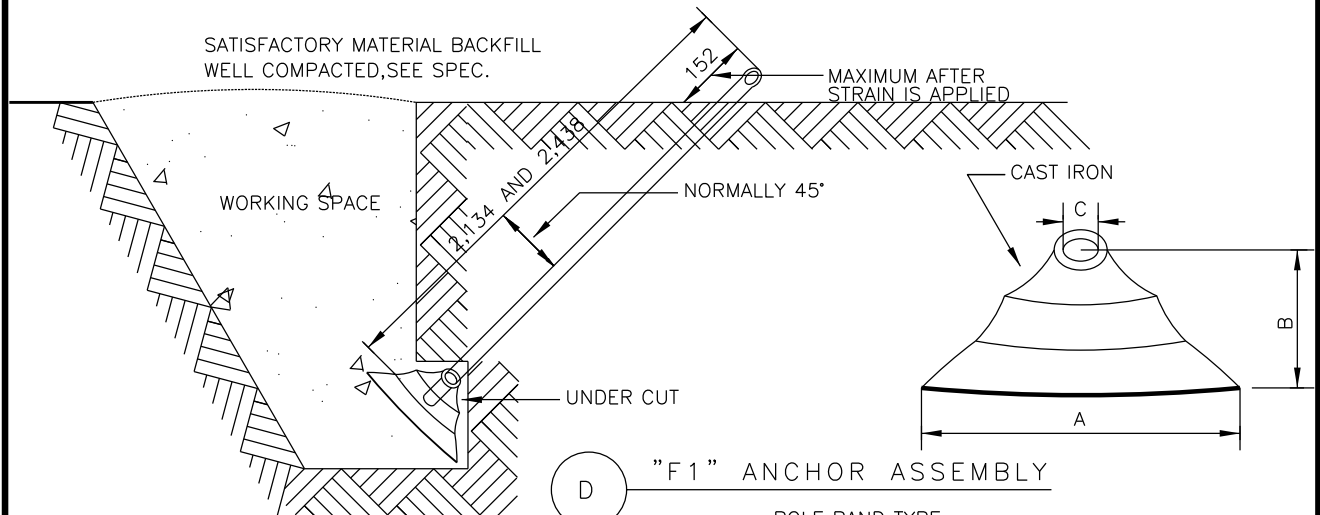
NOT TO SCALE

	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	GUY AND ANCHOR DETAIL - 1	337101	E - 332



C "E5C" STORM GUY FOUR DOWN GUY
POLE BAND TYPE

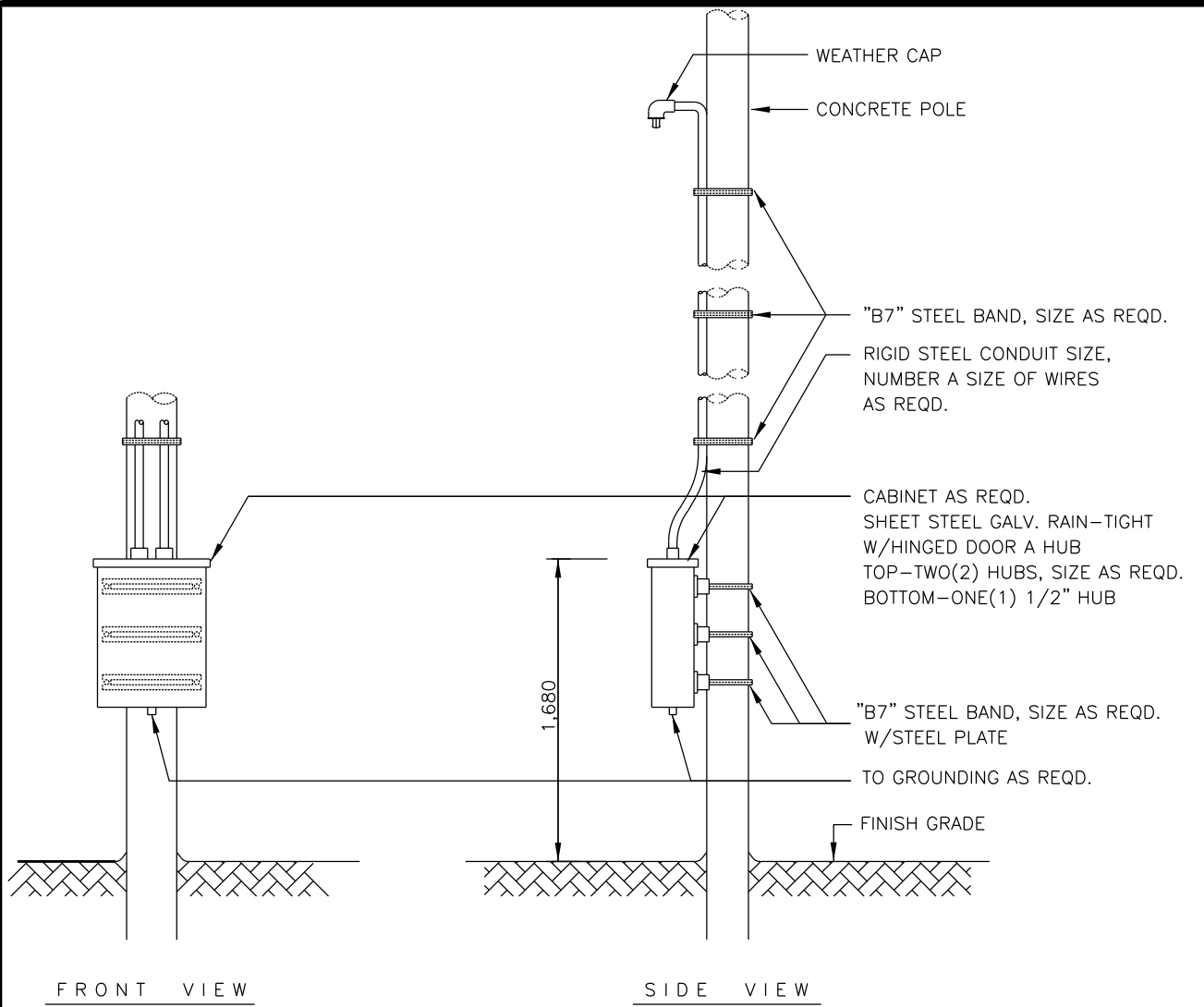
ITEM	MATERIAL	E1C-1	E1C-2	E1C-3	E1C-4
		3/8" GUY NO.REQD.	7/16" GUY NO.REQD.	1/2" GUY NO.REQD.	5/8" GUY NO.REQD.
U	CLAMP,GUY,3-BOLT 6" LONG	4	4	4	4
UV	WIRE ROPE CLIP OR MOUSING	4	4	4	4
CV	INSULATOR,STRAIN	1	1	1	1
V	THIMBLE CLEVIS	1	1	1	1
Y	GUY WIRE, 7 STRAND	REQD. LENGTH	REQD. LENGTH	REQD. LENGTH	REQD. LENGTH
B	POLE BAND, "B2-2"	1			
B	" " "B2-3"		1		
B	" " "B2-4"			1	1



D "F1" ANCHOR ASSEMBLY
POLE BAND TYPE

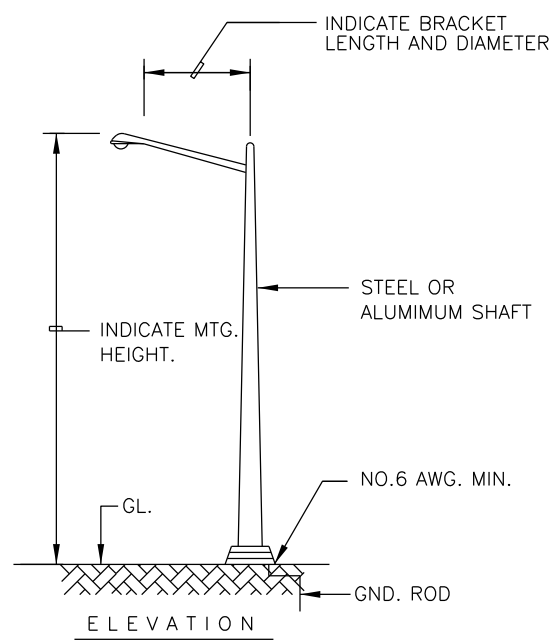
TYPE	MATERIAL					HOLDING POWER-POUNDS			
	ANCHOR		THIMBLE EYEROD			SOIL CONDITION			
	A	B	C	DIA.	LONG	SHALE SANDS TONE	HARD DAY	CRUMBLY DAMP	FIRM MOIST
F1-1	6"	2 1/2"	5/8"	5/8"	7'-0"	UP TO ROD STRENGTH	10,000	8,000	6,000
F1-2	8"	3 1/2"	7/8"	3/4"	8'-0"		14,000	11,000	9,000
F1-3	10"	4 9/16"	7/8"	3/4"	8'-0"		19,000	15,000	11,500
F1-4	12"	5 3/8"	7/8"	3/4"	8'-0"		21,500	17,500	14,000

	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	GUY AND ANCHOR DETAIL - 2	337101	E - 333

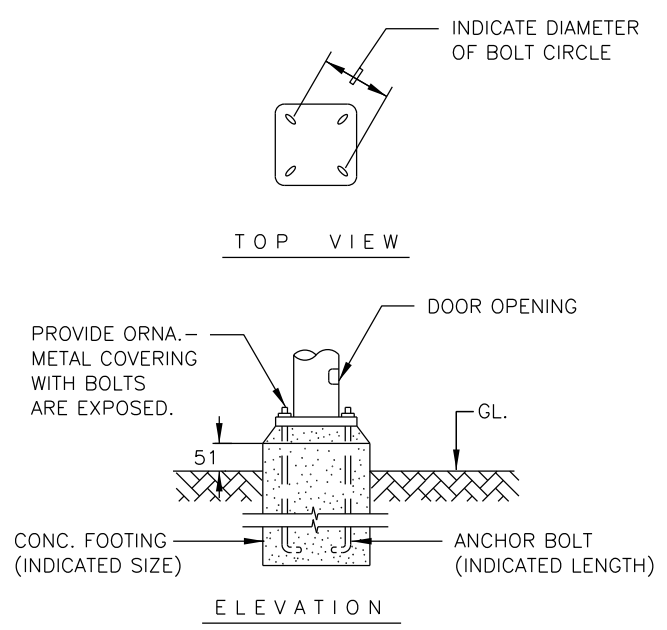


FRONT VIEW

SIDE VIEW



ELEVATION



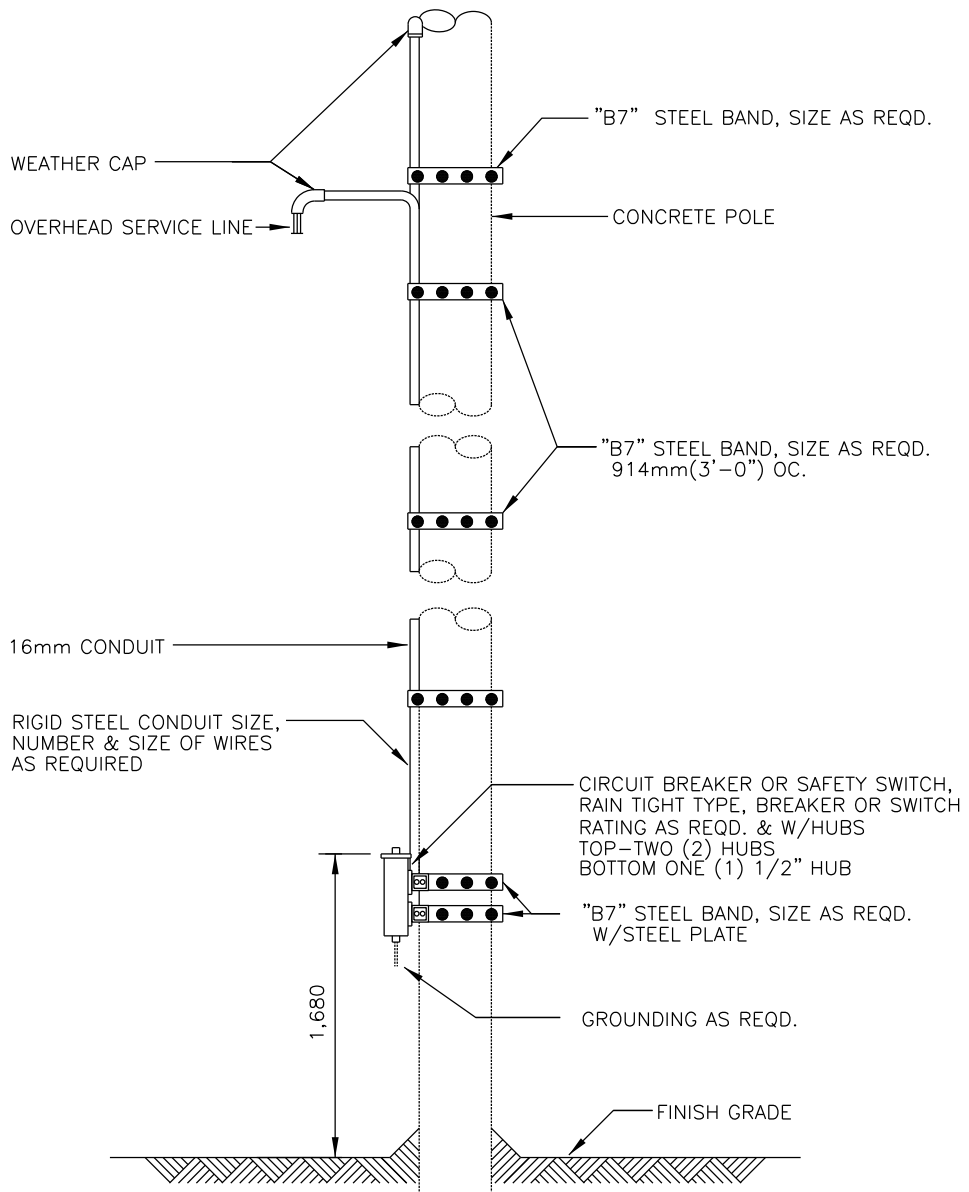
TOP VIEW

ELEVATION

A METAL POLE

B METAL POLE ANCHOR-POLE MTD BASE

	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	POLE MOUNTING ELECTRICAL EQUIPMENT INSTALLATION DETAIL - 1	337101	E - 334

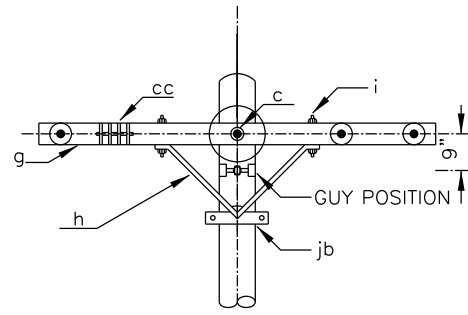
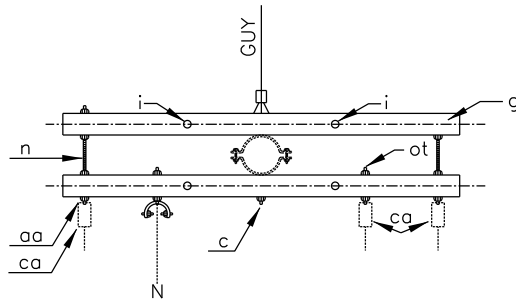


POLE MOUNTING ELECTRICAL EQUIPMENT INSTALLATION DETAIL - 2

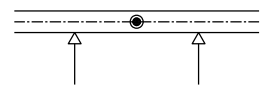
NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	POLE MOUNTING ELECTRICAL EQUIPMENT INSTALLATION DETAIL - 2	337101	E - 335

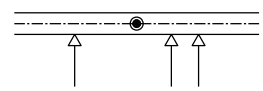
REV DATE: NOV 2015



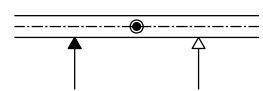
c7bc



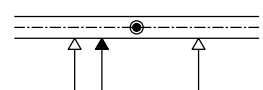
A7c



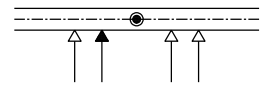
B7c



c7c



c7ac



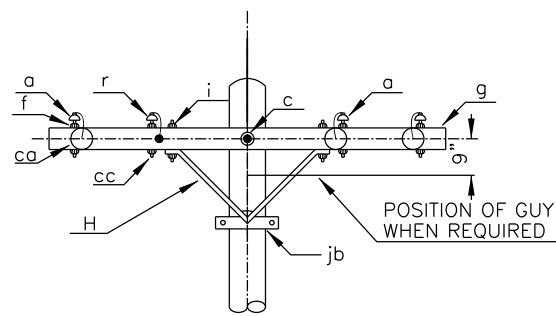
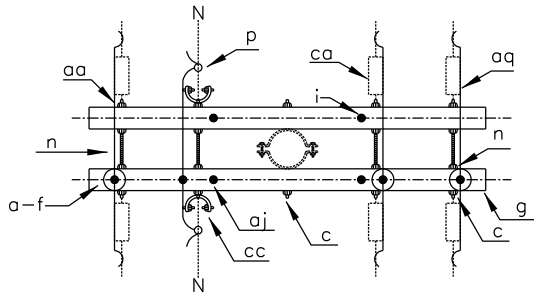
c7bc

ITEM	M A T E R I A L	STEEL ARMING				
		QTY REQD				
		A7c	B7c	C7c	C7ac	C7bc
c	BOLT, MACHINE, 5/8" x REQD LENGTH	1	1	1	1	1
g	CROSSARM, STEEL, SEE NOTES	2	2	2	2	2
h	ANGLE BRACE	2	2	2	2	2
i	BOLT, MACHINE, 3/8" x 4 1/2"	4	4	4	4	4
jb	BAND, STEEL, TYPE B4-1	1	1	1	1	1
n	BOLT, DBL, ARMING, 5/8" x REQD LENGTH	2	2	2	2	2
ot	BOLT, SHOULDER, EYE, 5/8" x REQD LENGTH	-	1	-	1	2
aa	NUT EYE 5/8"	2	2	2	2	2
ca	DEADEND ASSEMBLY, PRIMARY	2	3	1	2	3
cc	DEADEND ASSEMBLY, NEUTRAL	-	-	1	1	1

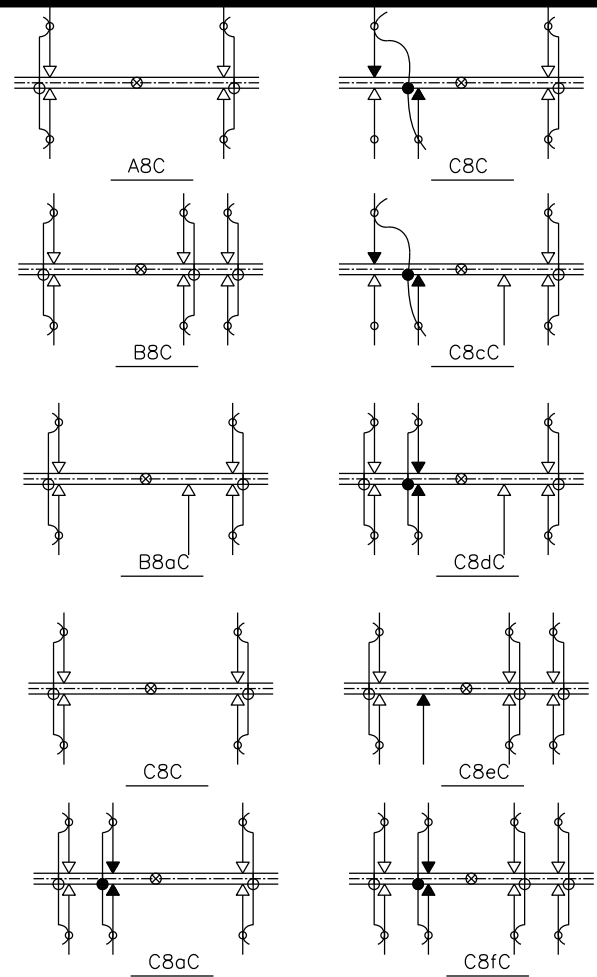
PRIMARY CROSSARM ARRANGEMENT - 1

NOT TO SCALE

	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PRIMARY CROSSARM ARRANGEMENT - 1	337101	E - 336



C8fC



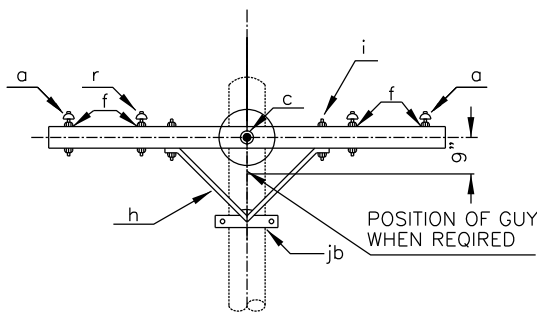
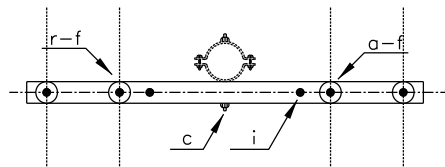
ITEM	M A T E R I A L	STEEL ARMIND									
		QTY REQD									
		A8C	B8C	B8aC	C8C	C8aC	C8bC	C8cC	C8dC	C8eC	C8fC
a	INSULATOR, PIN,TYPE, BROWN	2	3	2	1	2	1	1	2	3	3
c	BOLT, MACHINE, 5/8"x REQD LENGTH	1	1	1	1	1	1	1	1	1	1
ci	STRAIN INSULATOR CLEVIS, SEE NOTES										
f	PIN, STEEL, CROSSARM, SEE SPECS	2	3	2	2	3	2	2	3	3	4
g	CROSSARM,STEEL, SEE NOTES	2	2	2	2	2	2	2	2	2	2
h	ANGLE BRACE	2	2	2	2	2	2	2	2	2	2
i	BOLT, MACHINE, 3/8" x 4 1/2"	4	4	4	4	4	4	4	4	4	4
jb	BAND, STEEL, TYPE B4-1	1	1	1	1	1	1	1	1	1	1
n	BOLT, DBL, ARMING, 5/8"xREQD LENGTH	2	3	2	2	3	2	2	3	3	4
p	CONNECTORS ,AS REQUIRED										
r	INSULATOR, PIN TYPE, WHITE	-	-	-	1	1	1	1	1	-	1
aa	NUT, EYE, 5/8"	4	6	4	4	6	4	4	6	6	8
ai	BOLT, SHOULDER EYE, 5/8"x REQD LENGTH	-	-	1	-	-	1	2	1	1	-
aq	JUMPERS, AS REQUIRED										
ca	DEADEND ASSEMBLY, PRIMARY	4	6	5	2	4	3	4	5	6	6
cc	DEADEND ASSEMBLY, NEUTRAL	-	-	-	2	2	2	2	2	1	2

NOTE: ADD (ci) CLEVISES TO DEADEND ASSEMBLY "ca", WHEN THIS ASSEMBLY IS USED FOR ANGLES EXCEEDING 5°

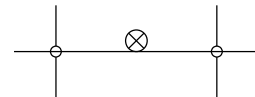
PRIMARY CROSSARM ARRANGEMENT - 2

NOT TO SCALE

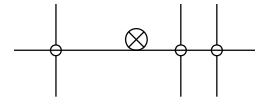
	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PRIMARY CROSSARM ARRANGEMENT - 2	337101	E - 337



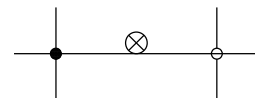
C9-1bc



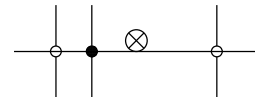
A9-1c



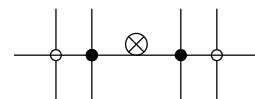
B9-1c



C9-1c



C9-1ac



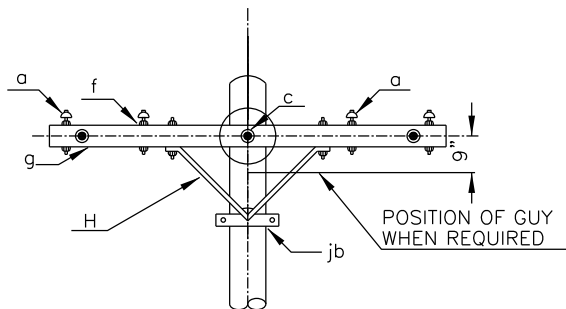
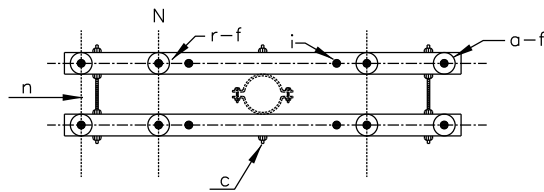
C9-1bc

ITEM	M A T E R I A L	STEEL ARMIND				
		QTY REQD				
		A9-1c	B9-1c	C9-1c	C9-1ac	C9-1bc
a	INSULATOR, PIN,TYPE, BROWN	2	3	1	2	3
c	BOLT, MACHINE, 5/8"x REQD LENGTH	1	1	1	1	1
f	PIN, STEEL, CROSSARM, SEE SPECS	2	3	2	3	4
g	CROSSARM,STEEL, SEE NOTES	1	1	1	1	1
h	ANGLE BRACE	1	1	1	1	1
i	BOLT, MACHINE, 3/8" x 4 1/2"	2	2	2	2	2
jb	BAND, STEEL, TYPE B4-1	1	1	1	1	1
r	INSULATOR, PIN TYPE, WHITE	-	-	1	1	1

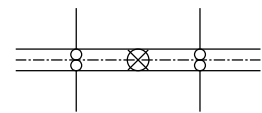
PRIMARY CROSSARM ARRANGEMENT - 3

NOT TO SCALE

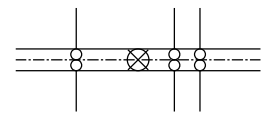
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PRIMARY CROSSARM ARRANGEMENT - 3	337101	E - 338



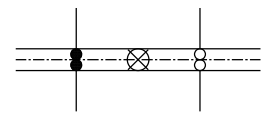
c7bc



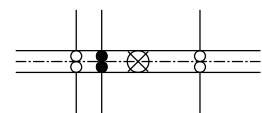
A9C



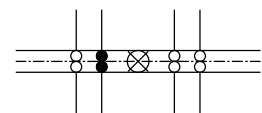
B9C



C9C



C9aC



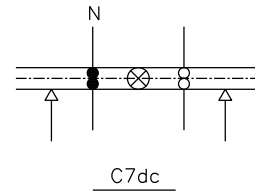
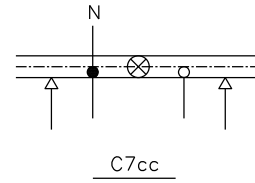
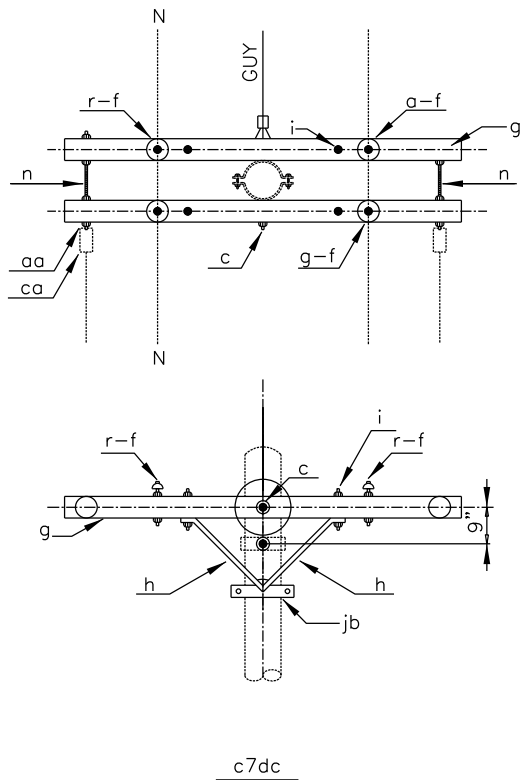
C9bC

ITEM	M A T E R I A L	STEEL ARMIND				
		QTY REQD				
		A9C	B9C	C9C	C9aC	C9bC
a	INSULATOR, PIN,TYPE, BROWN	4	6	2	4	6
c	BOLT, MACHINE, 5/8"x REQD LENGTH	1	1	1	1	1
f	PIN, STEEL, CROSSARM, SEE SPECS	4	6	4	6	8
g	CROSARM,STEEL, SEE NOTES	2	2	2	2	2
h	ANGLE BRACE	2	2	2	2	2
i	BOLT, MACHINE, 3/8" x 4 1/2"	4	4	4	4	4
jb	BAND, STEEL, TYPE B4-1	1	1	1	1	1
n	BOLT, DBL, ARMING, 5/8"xREQD LENGTH	2	2	2	2	2
r	INSULATOR, PIN TYPE, WHITE	-	-	2	2	2

PRIMARY CROSSARM ARRANGEMENT - 4

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PRIMARY CROSSARM ARRANGEMENT - 4	337101	E - 339

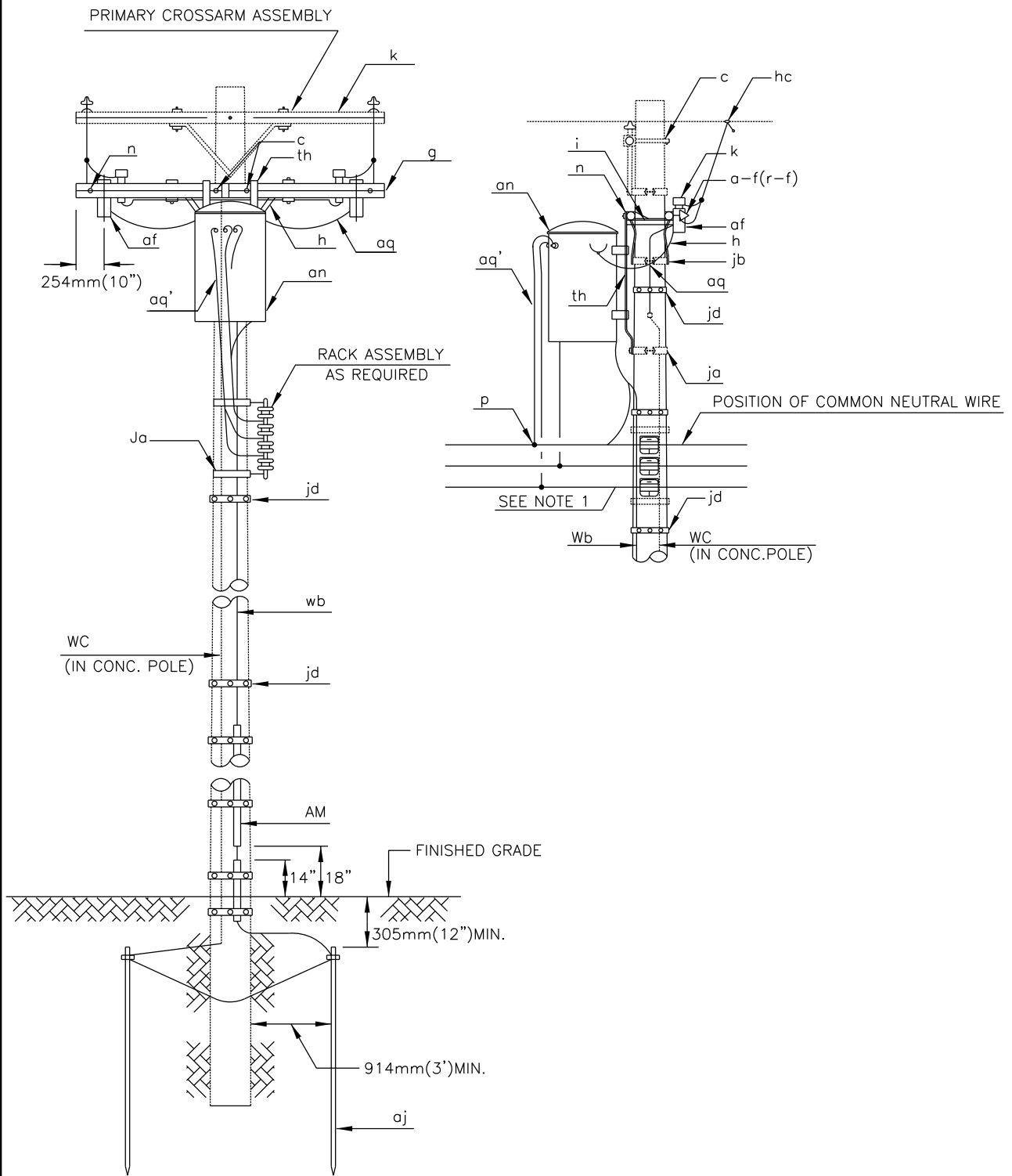


ITEM	M A T E R I A L	STEEL ARMIND		
		QTY REQD		
		C7cc	C7dc	
a	INSULATOR, PIN,TYPE, BROWN	1	2	
c	BOLT, MACHINE, 5/8"x REQD LENGTH	1	1	
t	PIN, STEEL, CROSSARM, SEE SPECS	2	4	
g	CROSARM,STEEL, SEE NOTES	2	2	
h	ANGLE BRACE	2	2	
i	BOLT, MACHINE, 3/8" x 4 1/2"	4	4	
jb	BAND, STEEL, TYPE B4-1	1	1	
n	BOLT, DBL, ARMING, 5/8"xREQD LENGTH	2	2	
aa	NUT EYE 5/8"	2	2	
ca	DEADEND ASSEMBLY, PRIMARY	2	2	
r	INSULATOR, PIN TYPE, WHITE	1	2	

PRIMARY CROSSARM ARRANGEMENT - 5

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	PRIMARY CROSSARM ARRANGEMENT - 5	337101	E - 340



POLE MOUNTING TRANSFORMER ASSEMBLY - 1

NOT TO SCALE

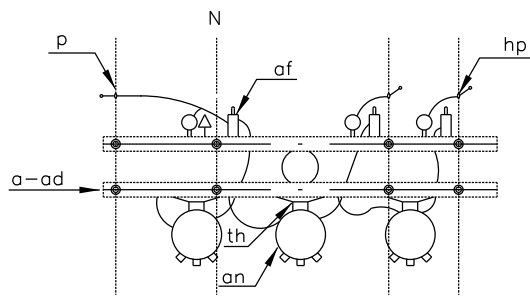
 <p>IMCOM</p>	<p>O&MA STANDARD DETAILS, KOREA</p>		<p>OMA SPEC</p>	<p>DWG NO.</p>
	<p>TITLE</p>	<p>POLE MOUNTING TRANSFORMER ASSEMBLY - 1</p>	<p>337101</p>	<p>E - 341</p>

ITEM	M A T E R I A L	GCS - 1 QTY REQD	
		Δ	Y
a	INSULATOR, PIN TYPE, BROWN, SEE SPEC.	2	1
c	BOLT, MACHINE 5/8 x REQD LENGTH W/WASHER	2	2
wc	GROUND WIRE, #4 BC STRANDED	AS REQD	
g	CROSSARM, STEEL	2	2
h	BRACE	2	2
i	BOLT, MACHINE 3/8" x 4 1/2"	2	2
j	BAND STEEL TYPE "B2" SIZE AS REQD	1	1
n	BOLT, DOUBLE ARMING 5/8" x REQD LENGTH	2	2
p	CONNECT ORS, AS REQD SIZE	AS REQD	
hp	HOT LINE CLAMP W/BAIL CLAMP, SEE SPEC	2	2
af	CUTOUT, FUSED W/MOUNTING BRACKET, SEE SPECS	2	1
ja	BAND STEEL TYPE "B3" SIZE AS REQD	1	1
r	INSULATOR, PIN TYPE, WHITE LOW VOLTAGE SEE SPEC.	-	1
aq	LEAD, WEATHER-PROOF WIRE, REQUIRED SIZE	AS REQD	
f	PIN, STEEL ARM	2	2
th	HANGER, TRANSFORMER	1	1
jb	BAND, STEEL TYPE "B4" SIZE AS REQD	1	1
AM	WOOD OR PLASTIC GROUND WIRE MOLDING	1	1
aj	COPPER-CLAD-STEEL GROUND ROD, SEE SPECS.	AS REQD	
wb	GROUNDG WIRE, SIZE AS REQUIRED MINIMUM # 6 BC, SEE SPECS	"	"
k	SURGE ARRESTER W/MOUNTING BRACKET. SEE SPECS	2	1
jd	BAND, STEEL TYPE "B7" SIZE AS REQD	AS REQD	
an	TRANSFORMER, SIZE AS REQD SEE SPECS	1	1
aq	PRIMARY JUMPER, AS REQUIRED SIZE	AS REQD	

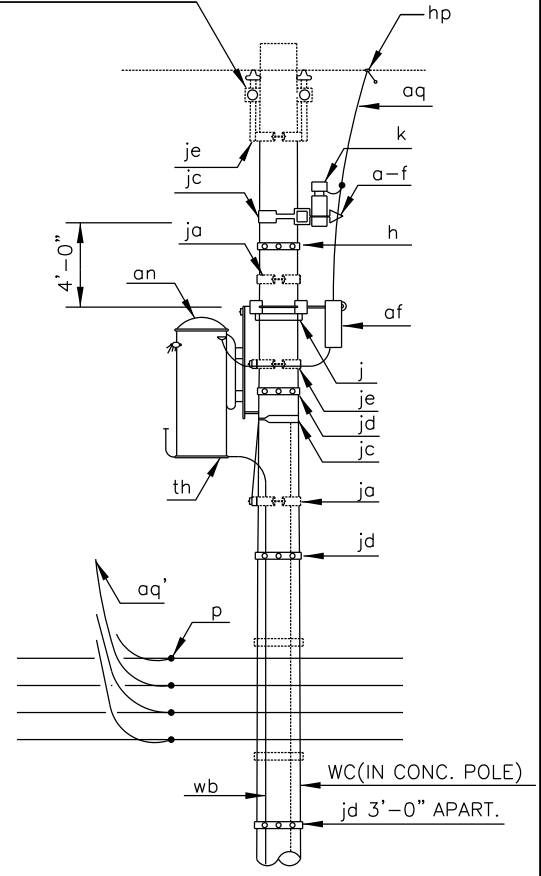
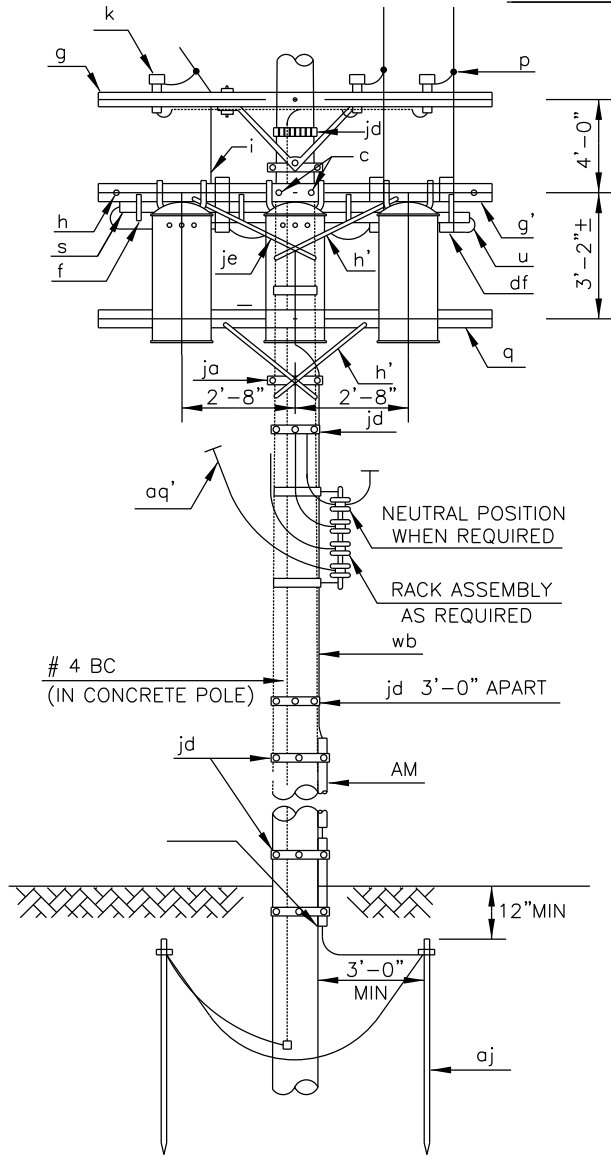
NOTE:

1. GROUNDING WIRE FROM COMMON NEUTRAL SHALL BE CONTINUOUS FROM NEUTRAL TO GROUND ASSEMBLY. ATTACHMENTS TO SUCH GROUND WIRES MAY BE MADE BY SUITABLE CONNECTORS.
2. ALL TIE WIRES SHALL BE BONDED TOGETHER TO PREVENT RADIO INTERFERENCE
3. RIGID OR INTERMEDIATE STL. CONDUIT SHALL PROTECT GND. WIRES ON POLES FROM A POINT 14 INCHES ABOVE GRADE TO A POINT 6 INCHES BELOW FROM A POINT 14 INCHES ABOVE GRADE TO A POINT 6 INCHES BELOW GRADE CONDUIT SHALL BE TERMINATED WITH A GROUNDING BUSHING AT EACH END AND THE GND. WIRE SHALL BE CONNECTED TO EACH BUSHING.
4. QUANTITIES INDICATED ON MATERIAL SCHEDULE ARE FOR GUIDANCE ONLY CONTRACTOR TO VERIFY ACTUAL QUANTITIES REQUIRED.
5. ALL POLE LINE HARDWARES TO BE HOT DIPPED GALVANIZED.
6. PROVIDE HOT LINE CLAMP FOR EACH PRIMARY LINE TAP TO ELECTRICAL EQUIPMENT.

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	POLE MOUNTING TRANSFORMER ASSEMBLY - 2	337101	E - 342



PRIMARY CROSSARM ASSEMBLY AS REQD.



GCS - 3
STEEL ARMING

POLE MOUNTING TRANSFORMER ASSEMBLY - 3
NOT TO SCALE

	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	POLE MOUNTING TRANSFORMER ASSEMBLY - 3	337101	E - 343

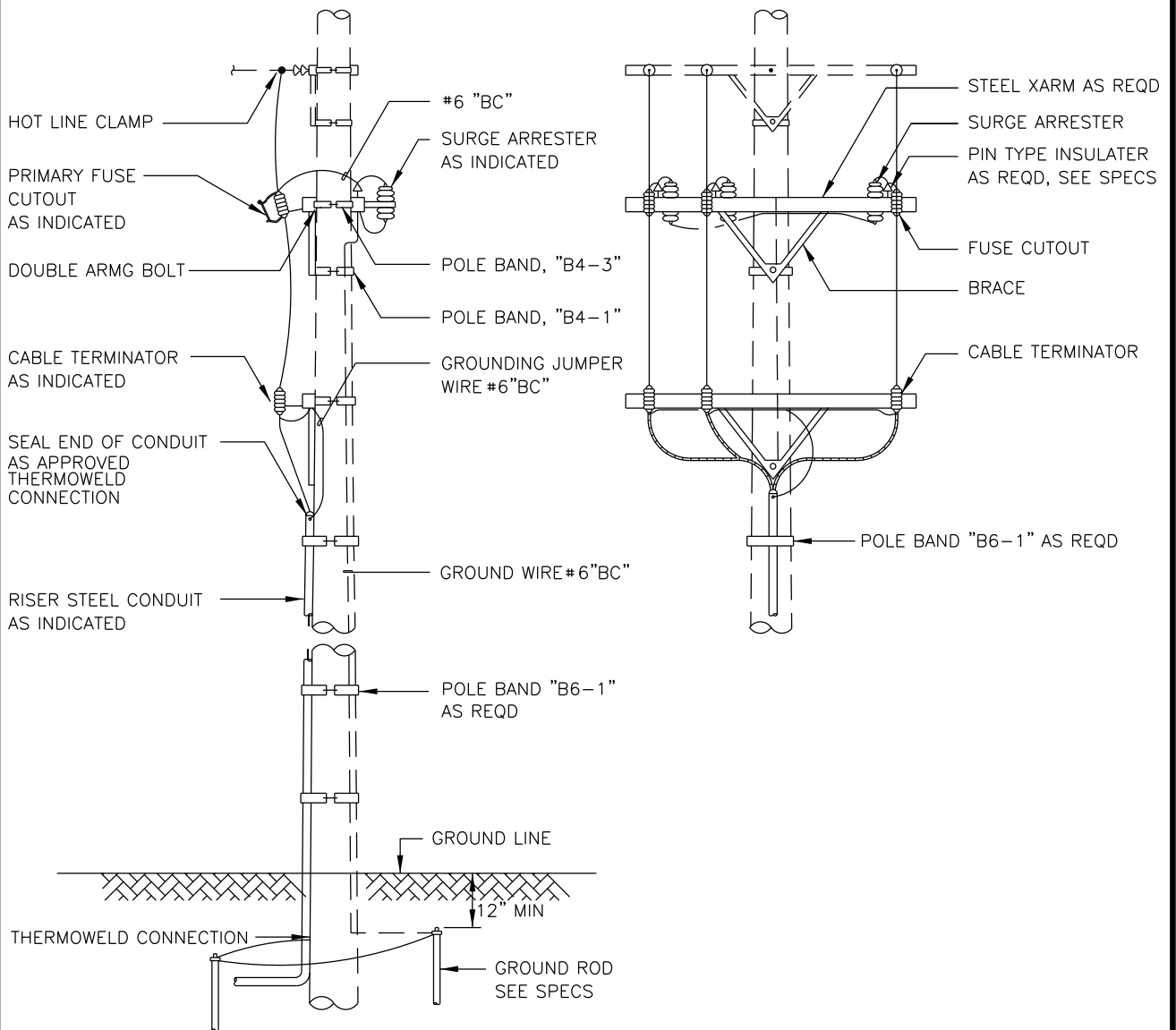
REV DATE: NOV 2015

GCS-3 ITEM	M A T E R I A L	GCS - 3 QTY REQD	
		Δ	Y
af	CUTOUT, FUSED W/MOUNTING BRACKET SEE SPECS	3	3
je	BAND, STEEL, TYPE "B4-2"	2	2
jc	BAND, STEEL, TYPE "B1-5"	2	2
ja	BAND, STEEL, TYPE "B3-3"	2	2
	BAND, STEEL, TYPE "B1-2"		
wc	GROUNDING WIRE #4 BC STRANDED	AS REQD	
aj	COPPER,CLAD-STEEL GROUND ROD W/CLAMP, SEE SPEC	//	
wb	GROUNDING WIRE SIZE AS REQUIRED, MINIMUM #6 BC	//	
th	HANGER, TRANSFORMER ASSEMBLY	3	3
g'	STEEL ANGLE 3 1/2" x 4 1/2" x 3/8", 8'-0"	3	3
h'	FLAT BRACE 1 1/4" x 1/4" x LG. AS REQD	6	6
i'	BOLT 3/8" ø x LG. AS REQ'D W/WASHER		
u	HI-VOLTAGE POLYCHLOROPRENE CABLE, AS REQD	1	-
k	SURGE ARRESTER W/MOUNTING BRACKET SEE SPECS	3	3
aq	PRIMARY JUMPER, AS REQUIRED SIZE	AS REQD	
an	TRANSFORMER SIZE AS REQUIRED, SEE SPECS	3	3
GCS-3 ITEM	M A T E R I A L	GCS - 3 QTY REQD	
		Δ	Y
a	INSULATOR, PIN TYPE	3	3
c	BOLT, MACHINE, 5/8" x REQUIRED LENGTH	2	2
AM	WOOD OR PLASTIC GROUND WIRE MOULDING, SEE SPECS		
	PIN, STEEL CROSSARM , SEE SPECS	3	3
g	STEEL CROSSARM, 3" x 3" x 8'-0"	3	3
h	ANGLE BRACE	3	3
i	BOLT, CARRIAGE, 3/8" x 4 1/2" W/WASHER	6	6
j	BAND, STEEL TYPE "B2-3"	1	1
n	BOLT, DOUBLE ARMING 5/8" x REQD LENGTH	6	6
p	CONNECTORS, AS REQUIRED SIZE	AS REQD	
hp	HOT LINE CLAMP W/BAIL CLAMP, SEE SPECS	3	4
s	FIBER DUCT, 2" ID x 7'-6"	1	-
t	GALV TIN STRAP FOR FIBER DUCT	1	-
-	LOW VOLTAGE PIN INSULATOR	-	3
jd	BAND, STEEL, TYPE "B7" SIZE AS REQD	AS REQD	

NOTE:

1. ALL POLE LINE HARDWARES TO BE HOT DIPPED GALVANIZED.
2. FOR STEEL BAND DETAILS OF CONCRETE POLES.
3. ALL TIE WIRES MUST BE BONDED TOGETHER TO PREVENT RADIO INTERFERENCE
RADIO INTERFERENCE
4. RIGID OR INTERMEDIATE STL. CONDUIT SHALL PROTECT GND. WIRES ON POLES FROM A POINT 14 INCHES ABOVE GRADE TO A POINT 6 INCHES BELOW GRADE CONDUITS SHALL BE TERMINATED WITH A GROUNDING BUSHING AT EACH END. AND THE GND WIRE SHALL BE CONNECTED TO EACH BUSHING.
5. QUANTITIES INDICATED ON MATERIAL SCHEDULE ARE FOR GUIDANCE ONLY CONTRACTOR TO VERIFY ACTUAL QUANTITIES REQUIRED.
6. PROVIDE HOT LINE CLAMP FOR EACH PRIMARY LINE TAP TO ELECTRICAL EQUIPMENT
ELECTRICAL EQUIPMENT.

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	POLE MOUNTING TRANSFORMER ASSEMBLY - 4	337101	E - 344

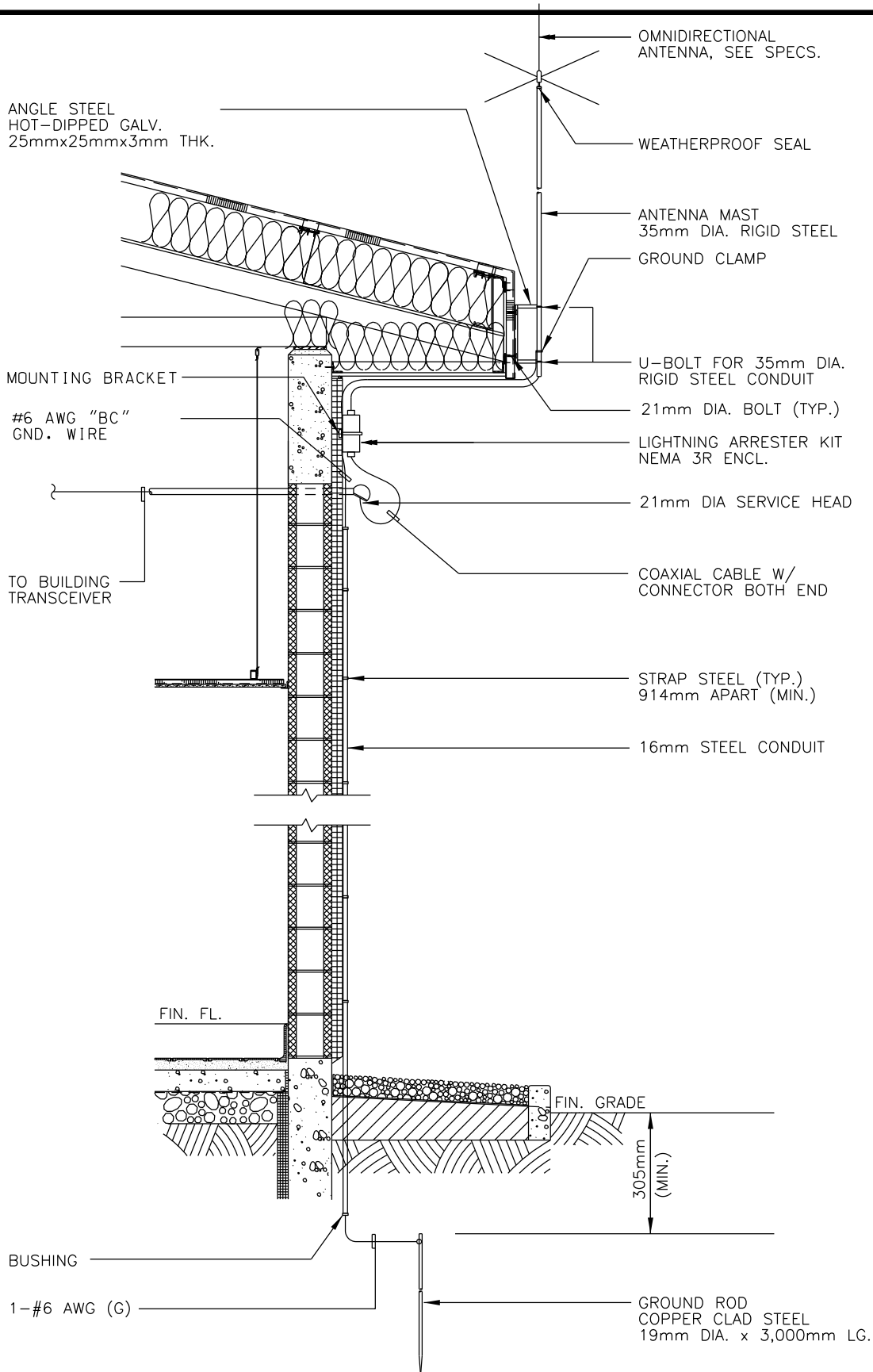


UNDERGROUND CABLE RISER

NOT TO SCALE

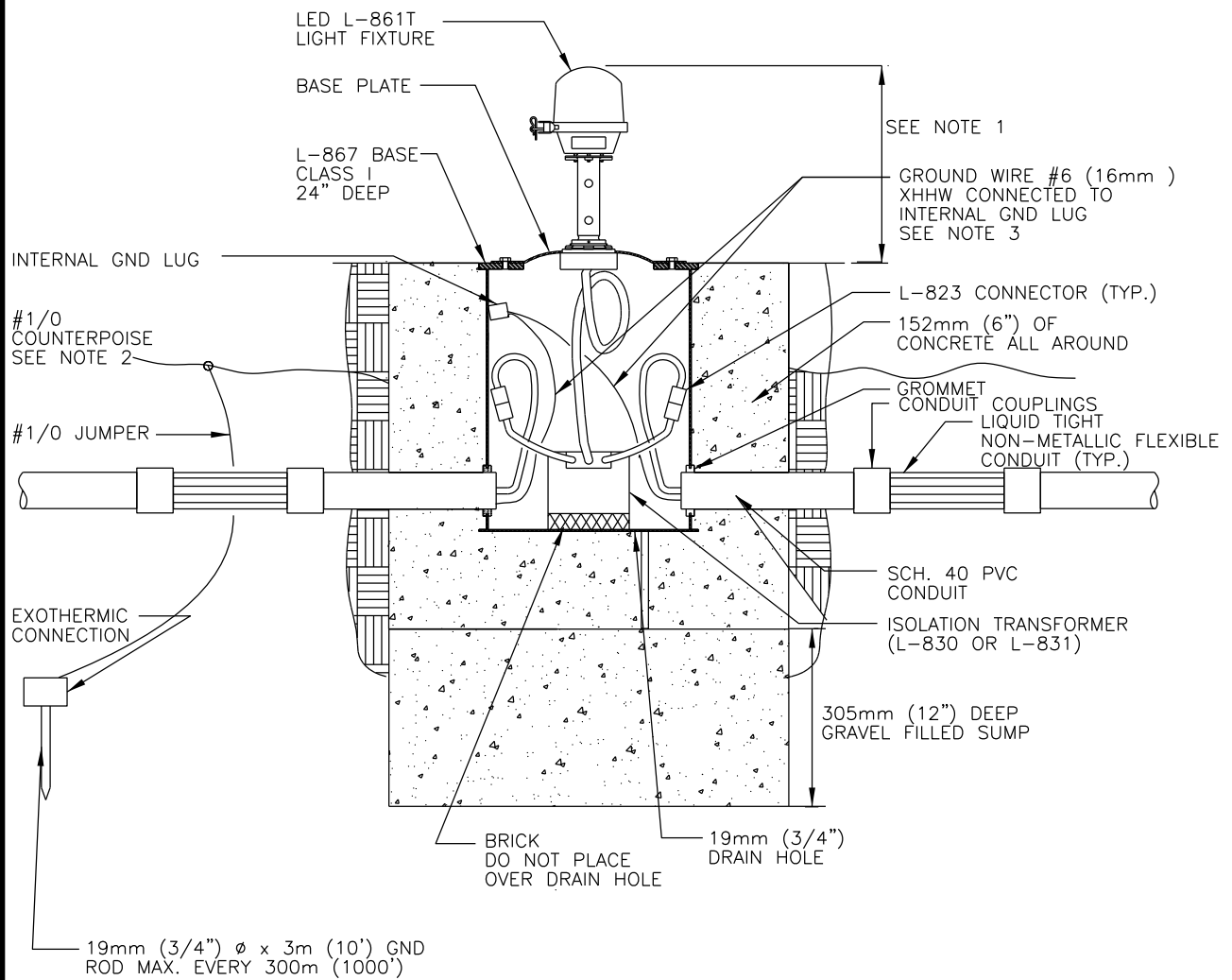
 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	UNDERGROUND CABLE RISER	337101	E - 345

REV DATE: NOV 2015



FIRE ALARM ANTENNA INSTALLATION DETAIL
 NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	FIRE ALARM ANTENNA INSTALLATION DETAIL	283164.0010	E - 401



NOTE:

1. STANDARD HEIGHT IS 356mm (14"). HEIGHT MAY BE ADJUSTED IN AREAS SUBJECT TO SNOW CONDITIONS.
2. ROUTE COUNTERPOISE AROUND EXTERIOR OF CONCRETE ENCASMENT TOWARDS FULL STRENGTH PAVEMENT. DO NOT CONNECT TO BASE. MAINTAIN 305mm (12") MINIMUM DISTANCE BETWEEN BASE AND COUNTERPOISE.
3. GROUND BASE AT LIGHTING VAULT VIA #6 EQUIPMENT GROUND.

TAXIWAY LIGHT INSTALLATION DETAIL

NOT TO SCALE

 IMCOM	O&MA STANDARD DETAILS, KOREA		OMA SPEC	DWG NO.
	TITLE	TAXIWAY LIGHT INSTALLATION DETAIL	265620.0010	E - 501