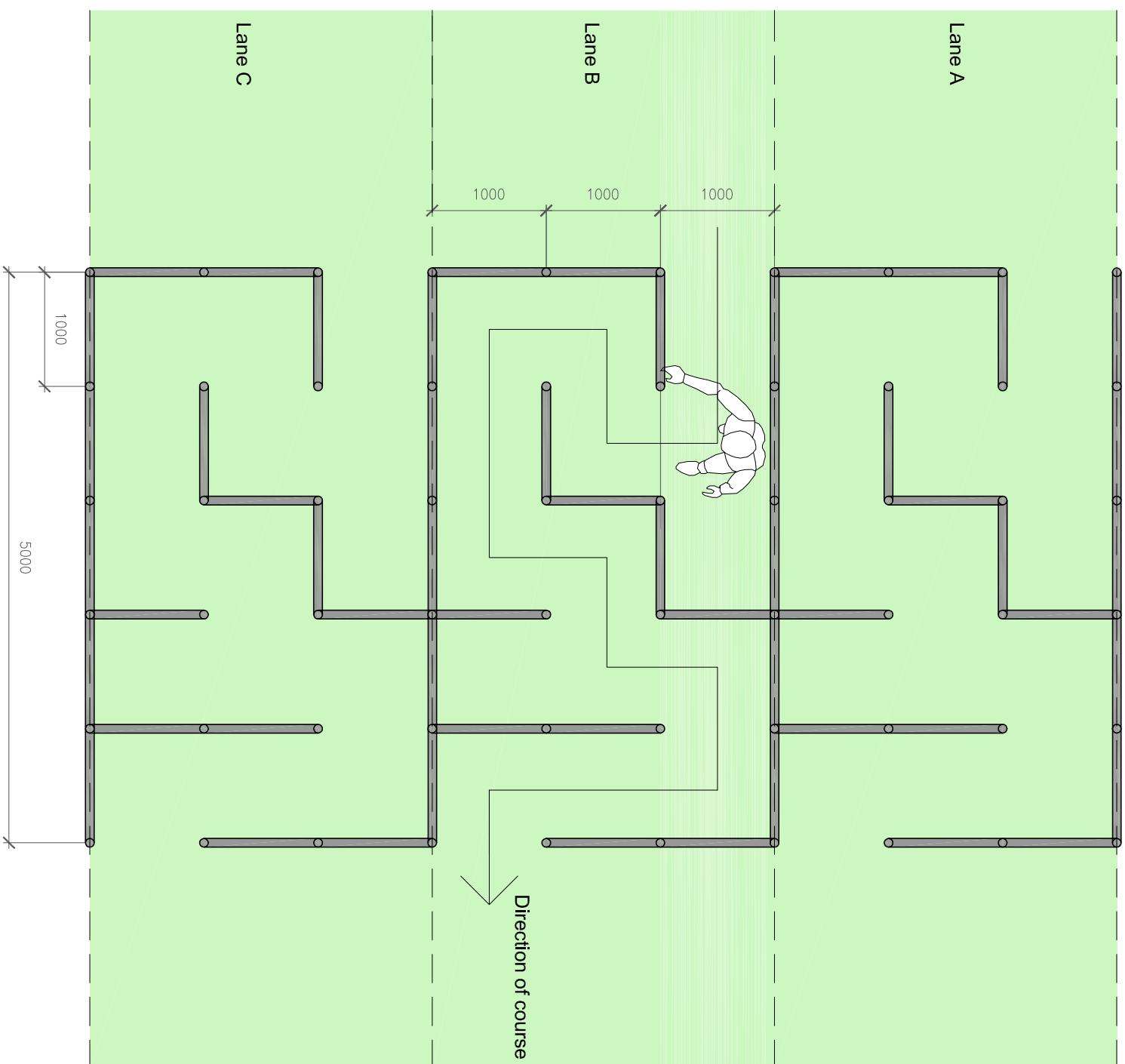
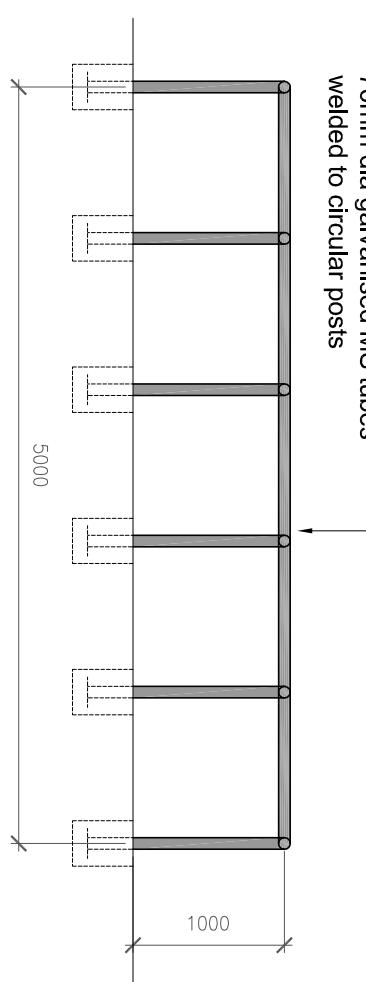


SUGGESTED LAYOUT OF MAZE (3 LANES)



SECTION

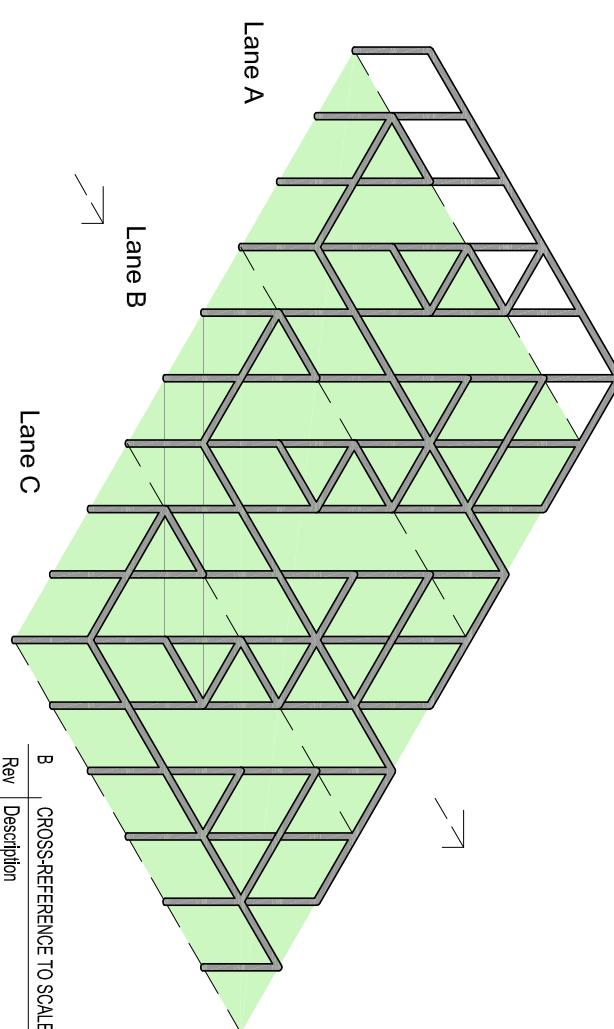


DO NOT SCALE: Contractor to check all dimensions and report any omissions or errors

76mm dia galvanised MS tubes
welded to circular posts

ISOMETRIC VIEW

Not to Scale



DEFENCE ESTATES

Delivering Estate Solutions to Defence Needs

B	CROSS-REFERENCE TO SCALE 44 AMENDED	LW	ACR	ACR	JUNE07
Rev	Description	By	Chk	App	Date

B

Rev

NOTES:

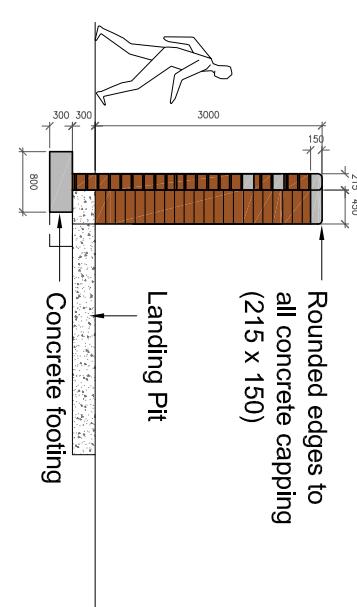
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THIS DRAWING IS TO BE READ IN ACCORDANCE WITH THE GENERAL DESIGN GUIDANCE NOTES INDICATED ON E8949/DE/AB01

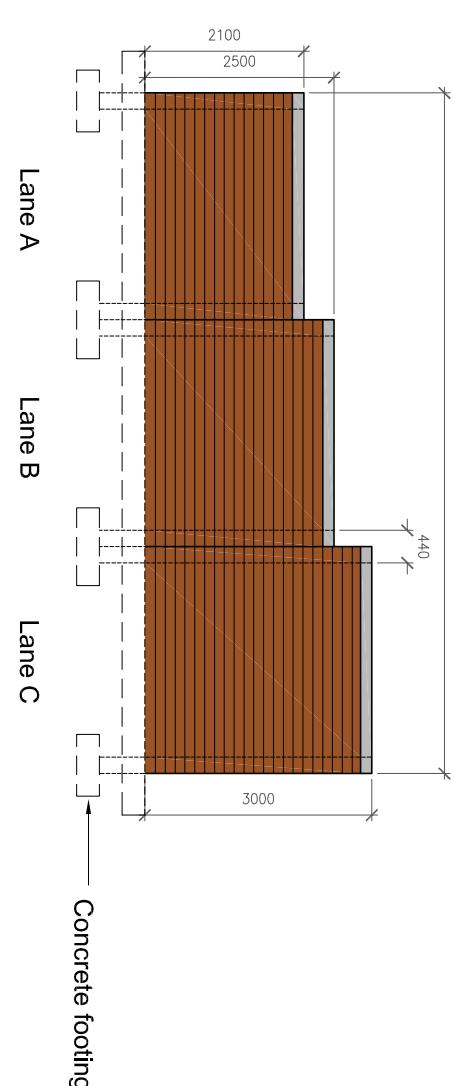
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THE SPECIALIST CONTRACTOR/MANUFACTURER IS FULLY RESPONSIBLE FOR THE STRUCTURAL DESIGN STABILITY AND DETAILING OF EACH OBSTACLE PROVIDED TO SUIT THE PARTICULAR REQUIREMENTS OF THE SITE.

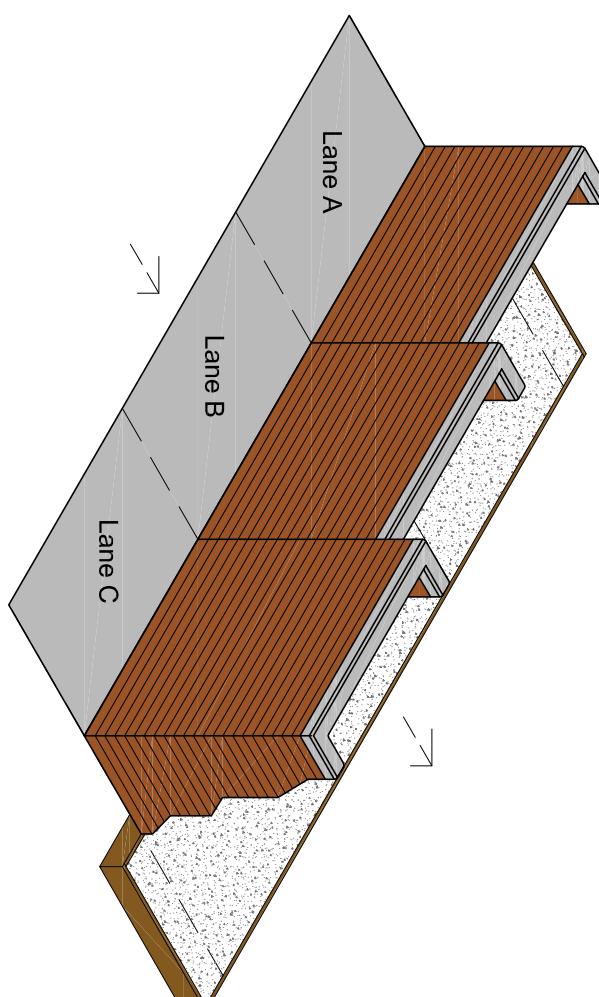
SECTION



ELEVATION (FACING DIRECTION OF COURSE)



ISOMETRIC VIEW



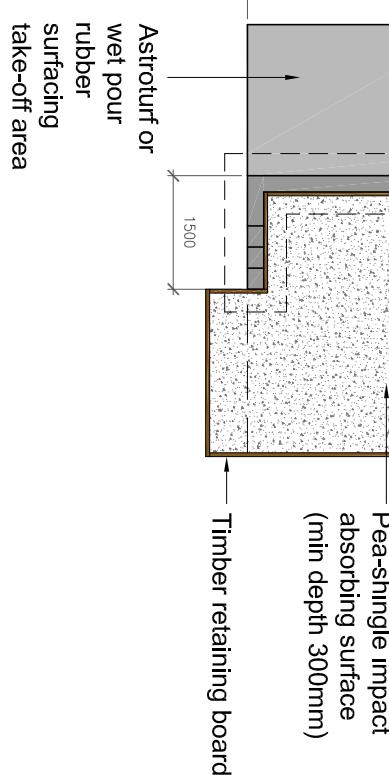
OBSTACLE COURSE DRAWINGS

Drawing title:
OBSTACLE B2 - WALL (HIGHER HEIGHTS)
(JSP 315 SCALE 44, ANNEX B, SERIAL 2)

COURSE TYPE B

Scale A3
1:100
Drawn By
LW
Date
14/09/06
Checked By
SPP
Date
14/09/06
Approved By
ACB
Date
15/09/06
Project No.
E008949
Office
35
Type
04
Drawing No.
E8949/DE/B2
Revision
C

PLAN



NOTES:

THIS DRAWING IS TO BE READ IN ACCORDANCE WITH THE GENERAL DESIGN GUIDANCE NOTES INDICATED ON E8949/DE/AB01

Rounded edges to all concrete capping (215 x 150)
(215 x 150)

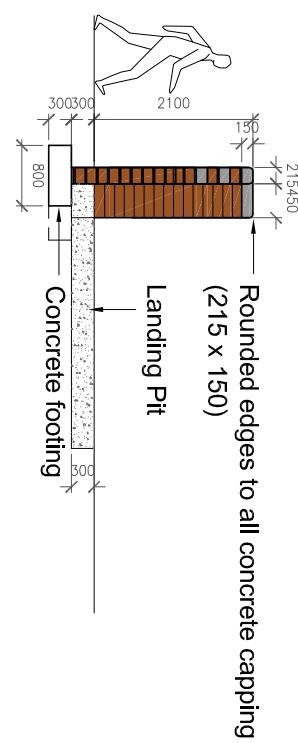
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1500

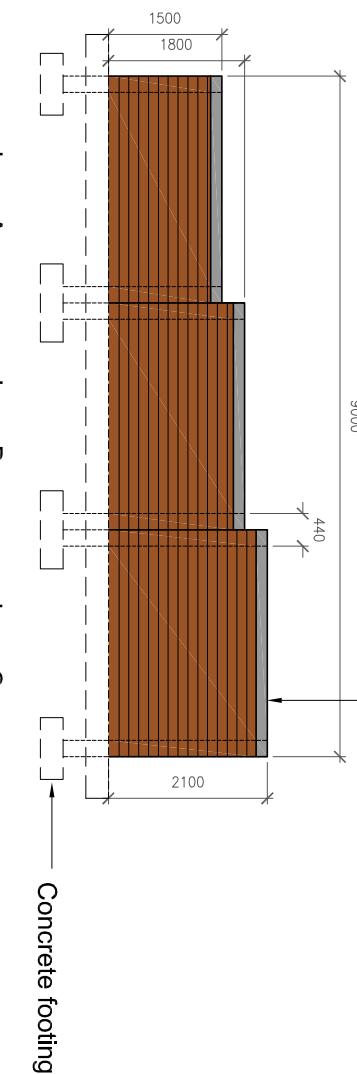
1800

440

2100



SECTION



ELEVATION (FACING DIRECTION OF COURSE)

C TAKE OFF AREAS CHANGED TO ASTROTURF
OR WETPOUR RUBBER SURFACING SC SP SP FEB '09

B CROSS-REFERENCE TO SCALE 44 AMENDED LW ACR ACR JUNE '07

Rev Description By Chk App Date

Client:

DEFENCE ESTATES
Delivering Estate Solutions to Defence Needs



Project:

Executive Park
Avalon Way
Ainstey
Leicester
LE7 7GR

Tel: 0116 234 8000

Fax: 0116 234 8002

e-mail: enviro@leicester@wvg.com

Environmental
Civil Structural Mechanical Electrical Process Rail Traffic Environmental Project Management

Project:

OBSTACLE COURSE DRAWINGS

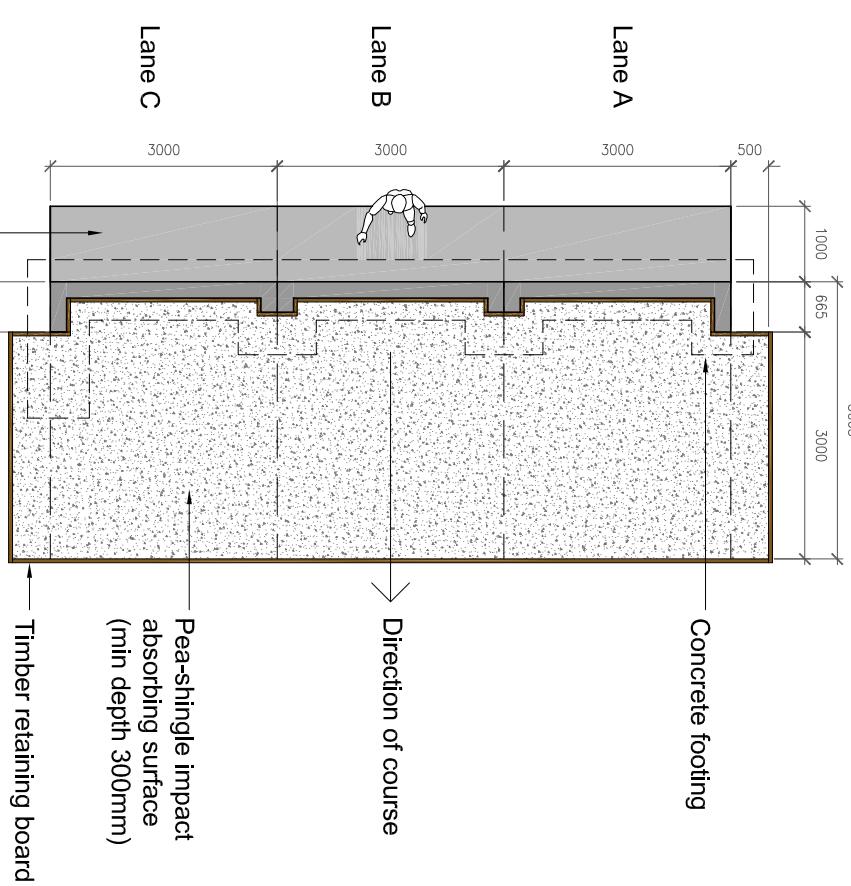
Drawing Title:

OBSTACLE B4 - WALL (LOWER HEIGHTS)
(JSP 315 SCALE 44, ANNEX B, SERIAL 4)

COURSE TYPE B

PLAN

Astroturf or wet pour
rubber surfacing
take-off area



ISOMETRIC VIEW

OBSTACLE COURSE DRAWINGS

Drawing Title:

OBSTACLE B4 - WALL (LOWER HEIGHTS)
(JSP 315 SCALE 44, ANNEX B, SERIAL 4)

COURSE TYPE B

Project No. E008949

Date 11/01/06

Office 35

Type 04

Drawing No. E8949/DE/B4

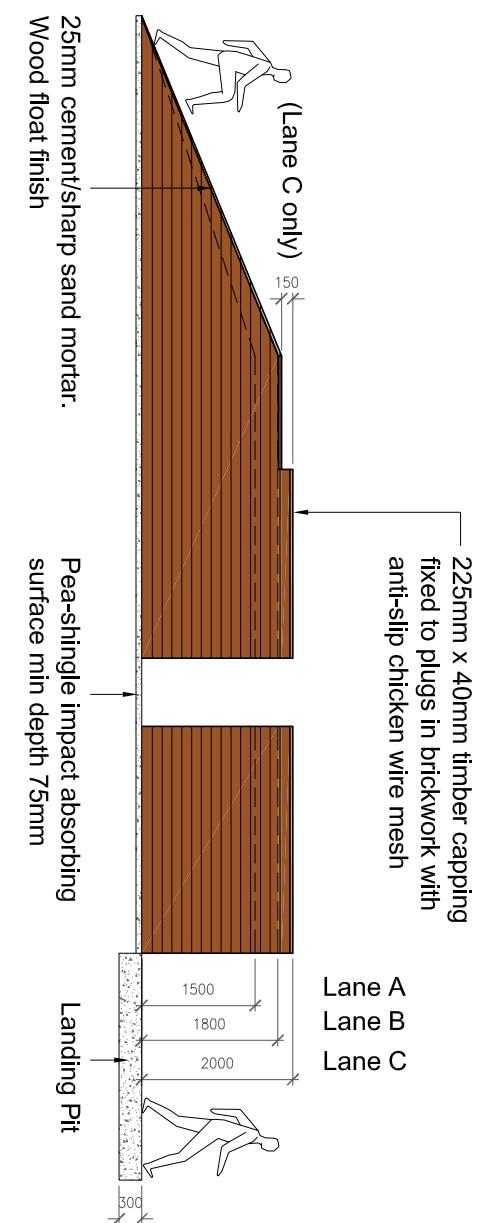
Revision C

APPROVAL	INFORMATION	TENDER	CONTRACT	CONSTRUCTION
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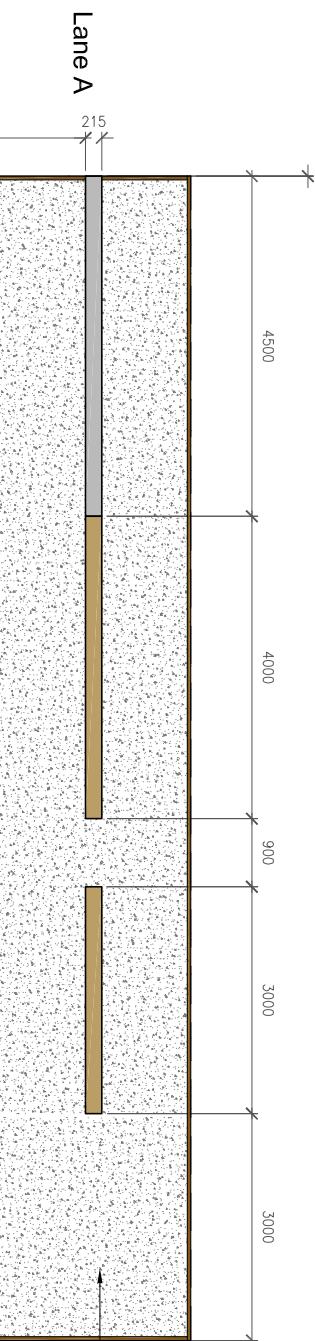
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DO NOT SCALE: Contractor to check all dimensions and report any omissions or errors



SECTION



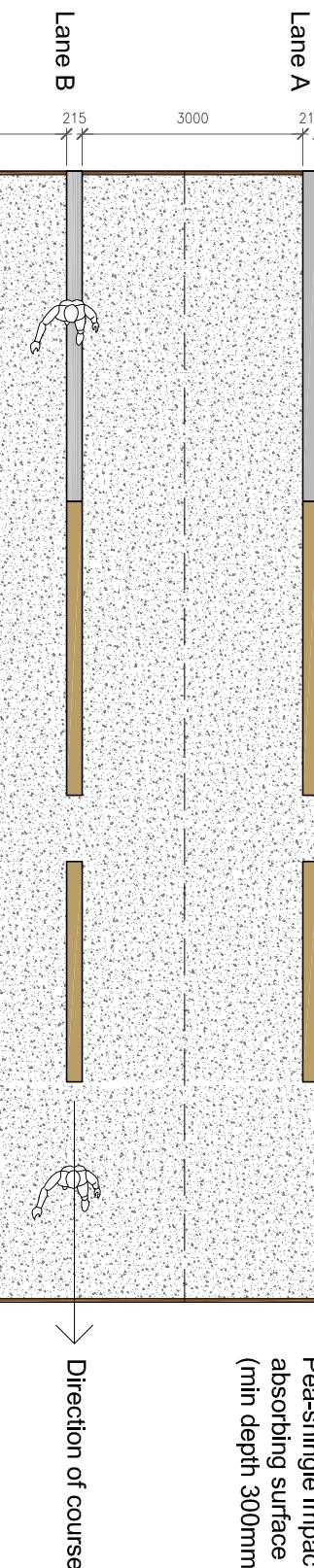
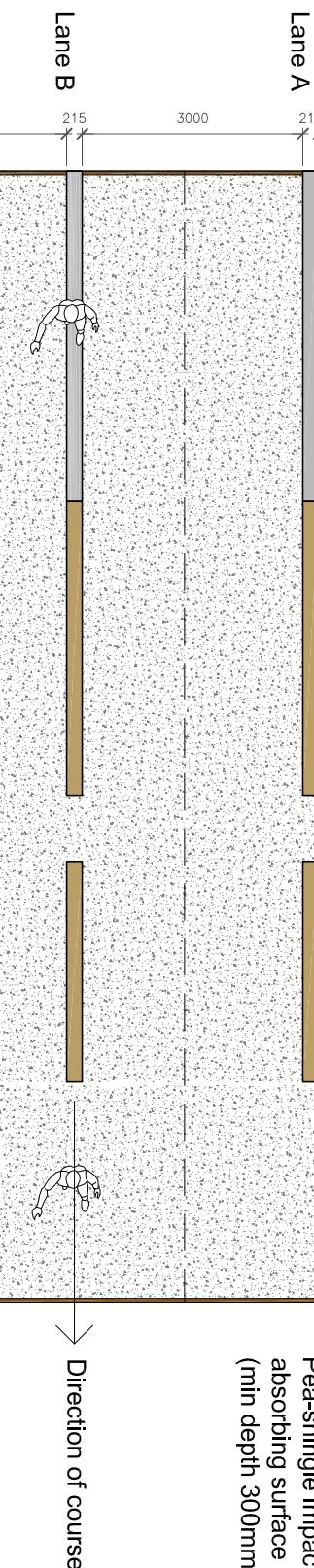
ISOMETRIC VIEW



ISOMETRIC VIEW



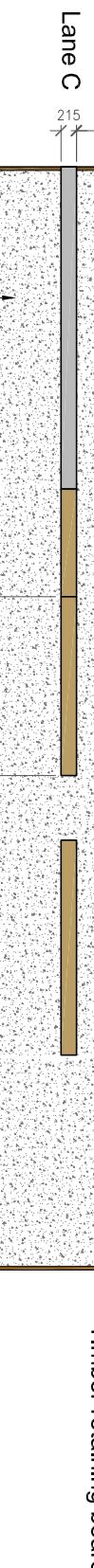
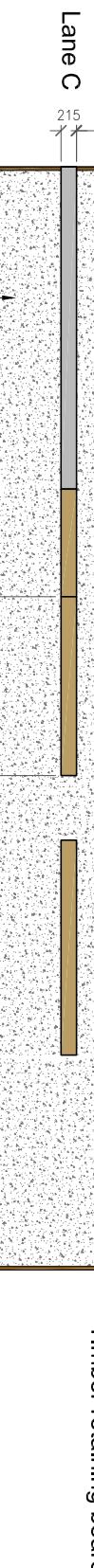
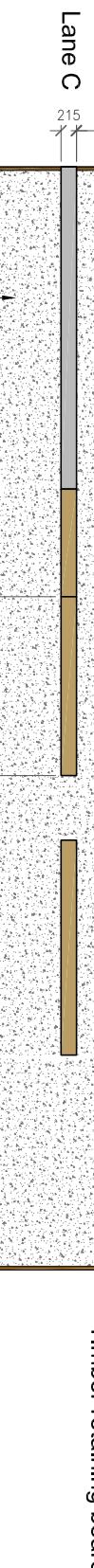
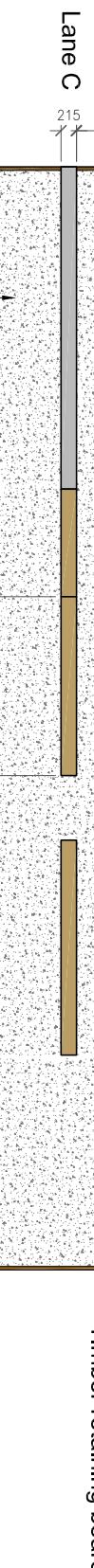
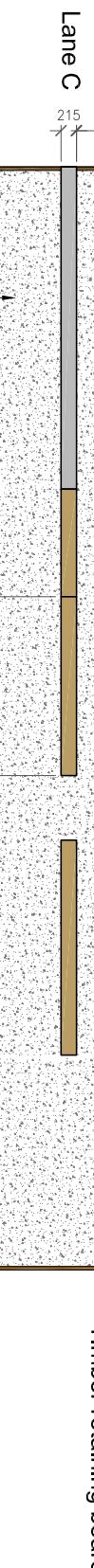
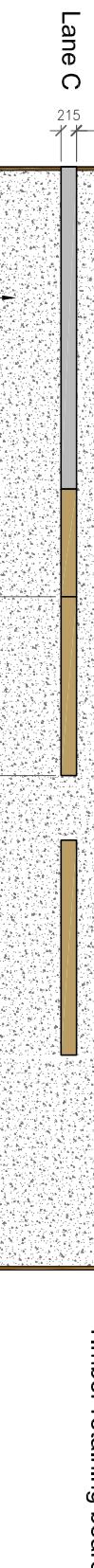
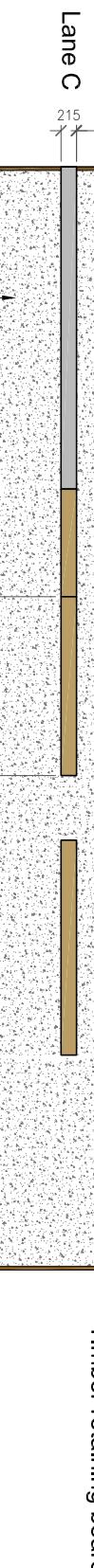
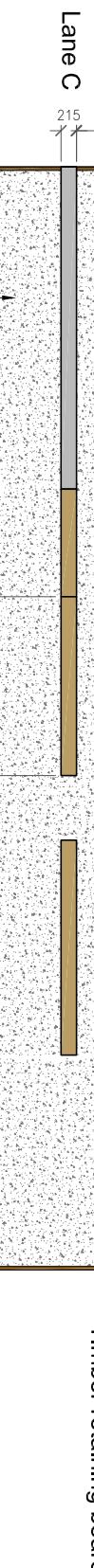
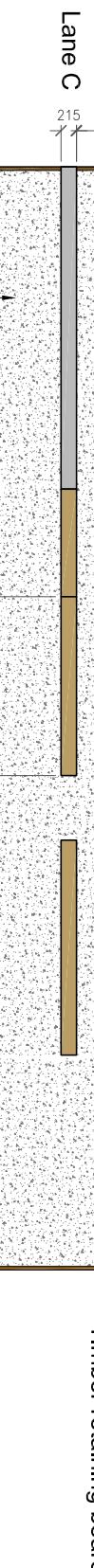
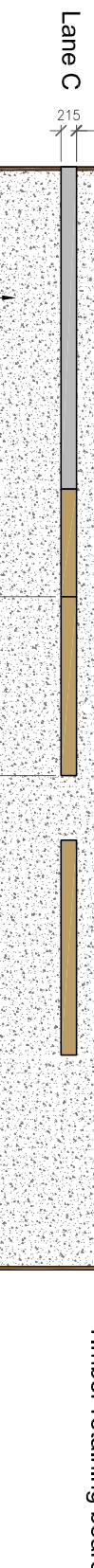
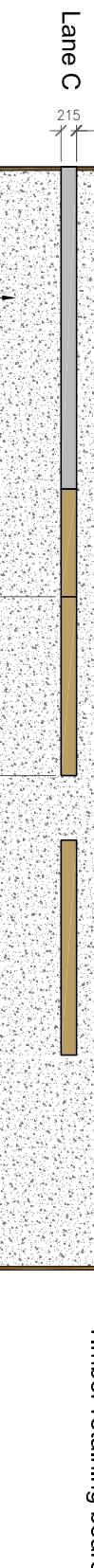
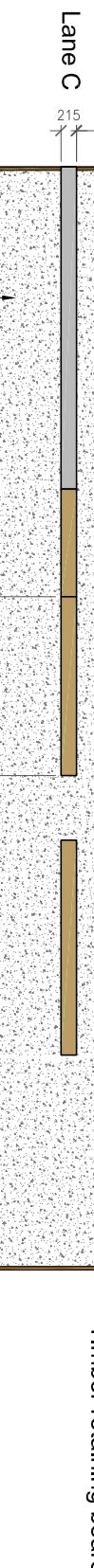
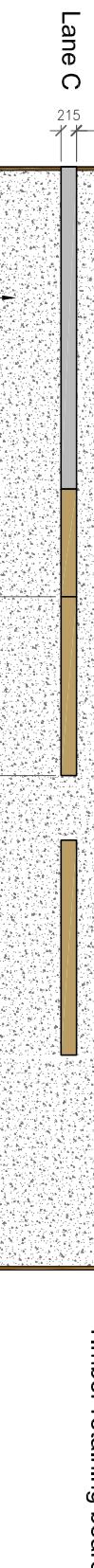
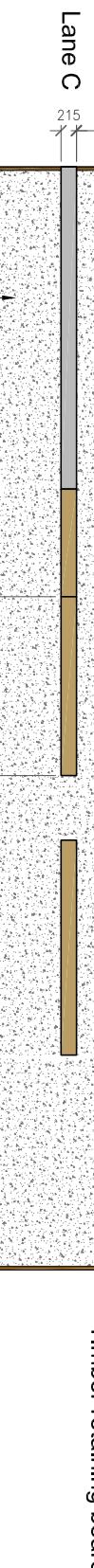
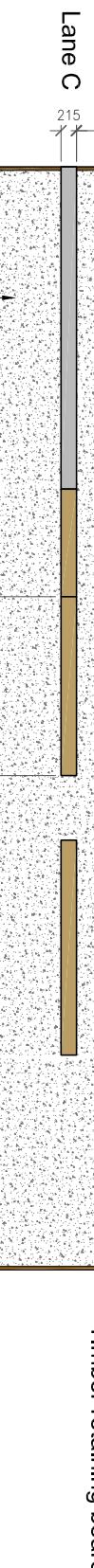
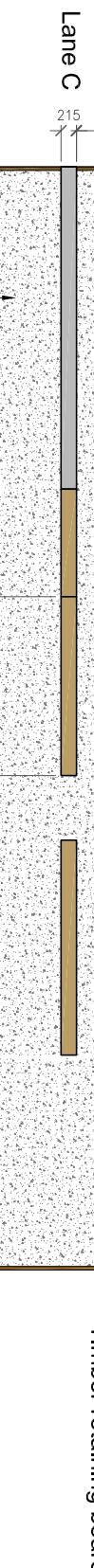
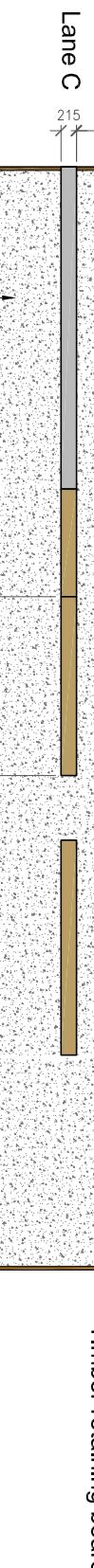
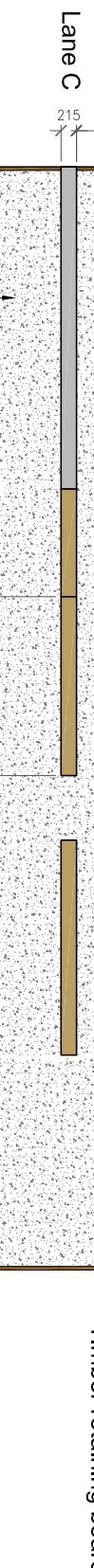
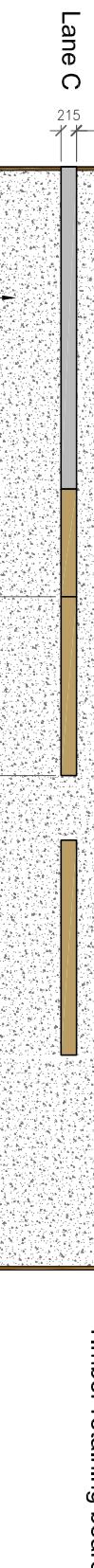
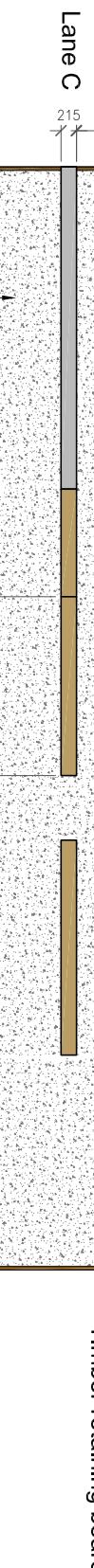
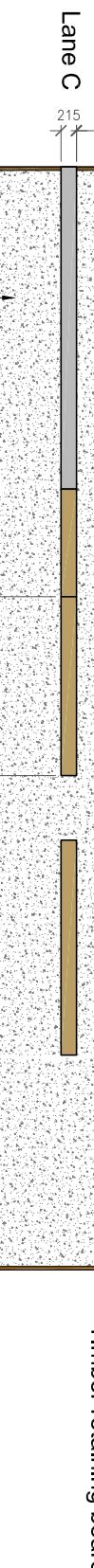
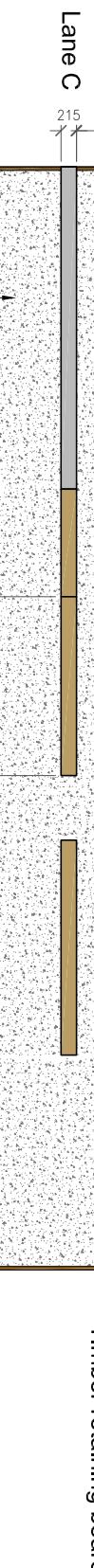
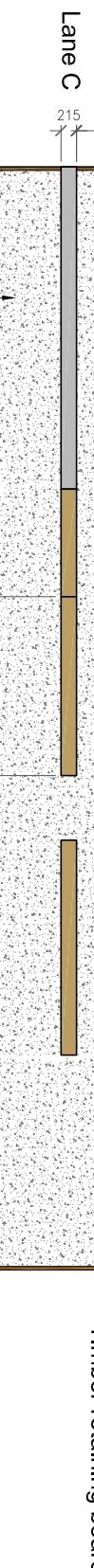
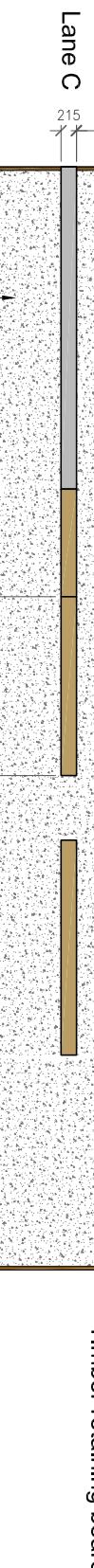
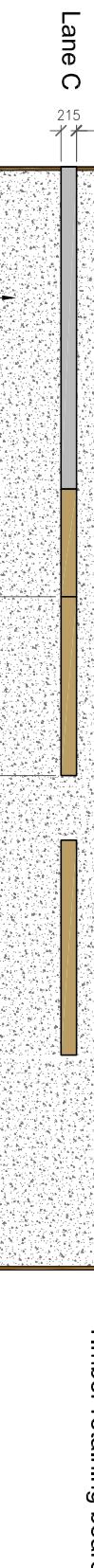
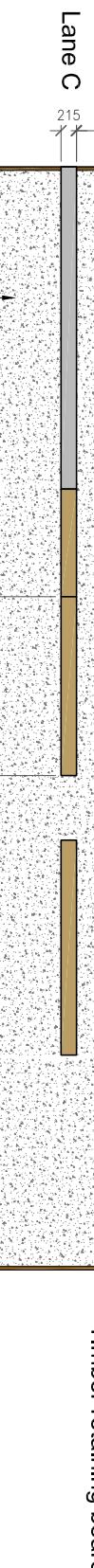
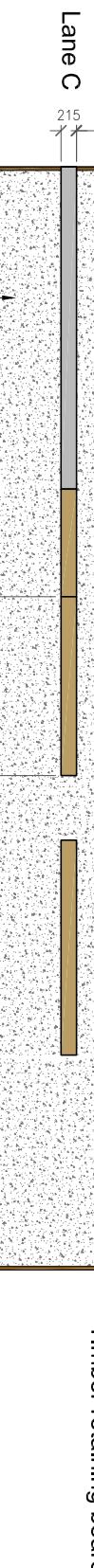
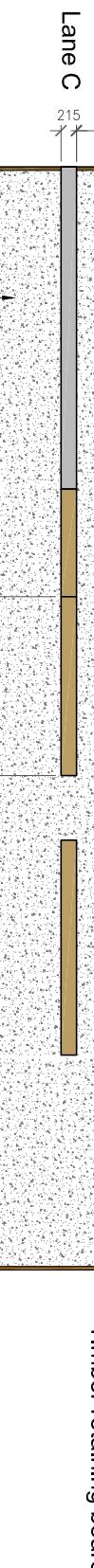
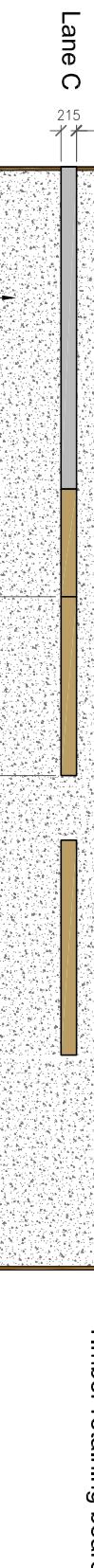
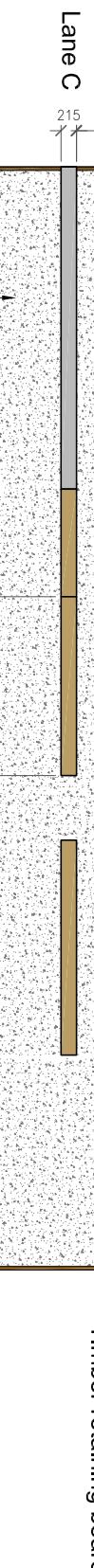
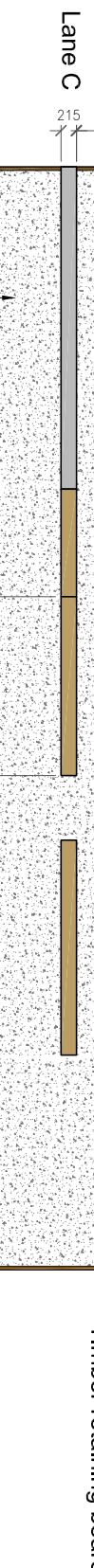
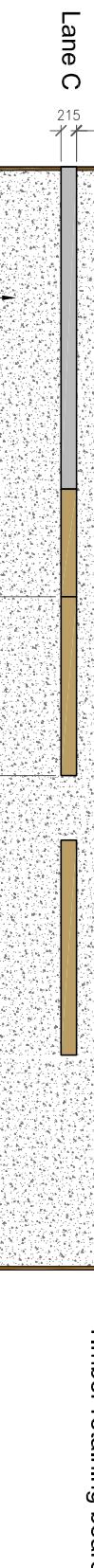
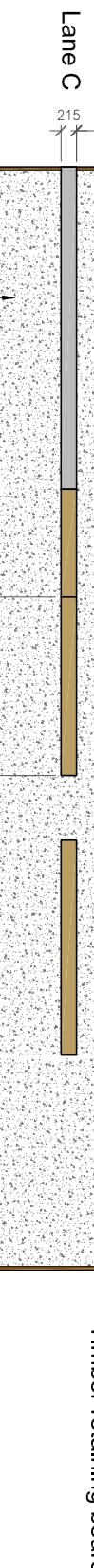
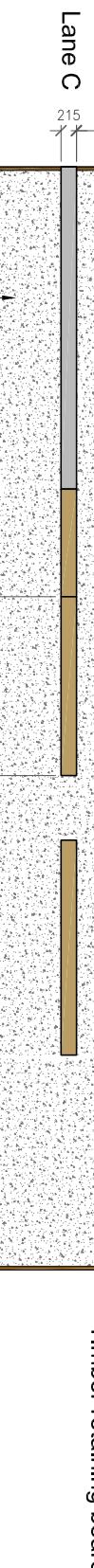
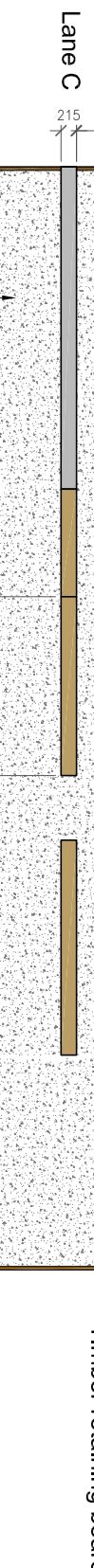
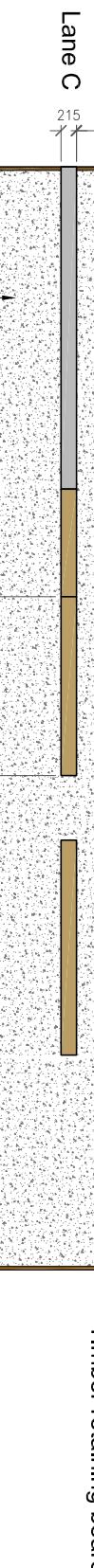
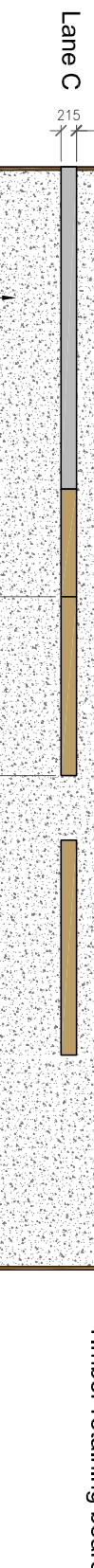
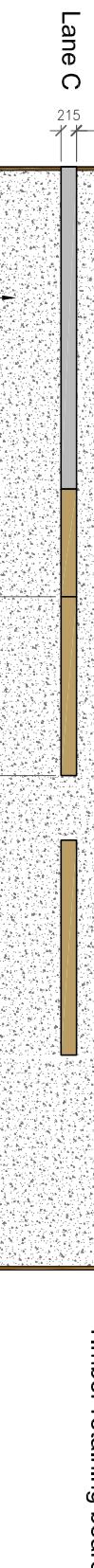
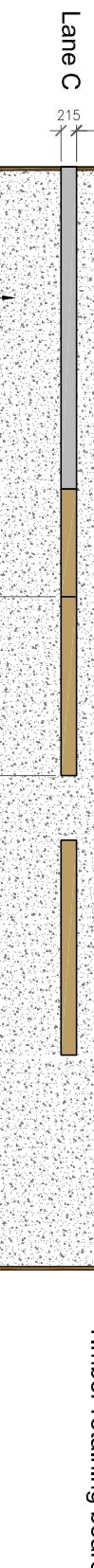
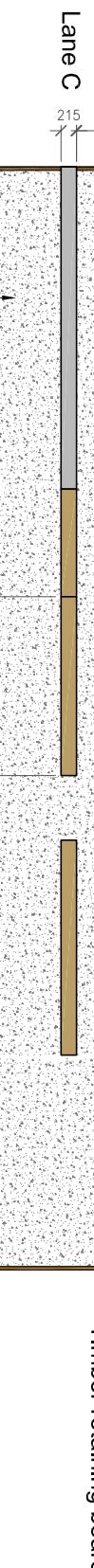
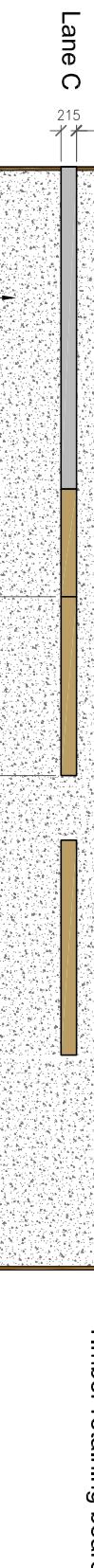
ISOMETRIC VIEW



OBSTACLE COURSE DRAWINGS

OBSTACLE COURSES

OBSTACLES

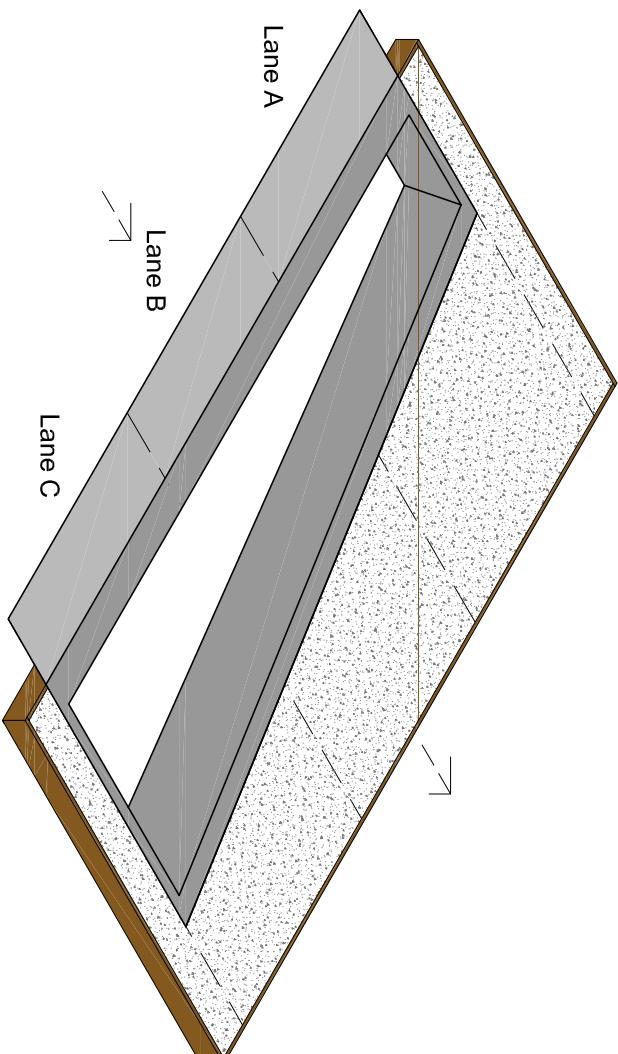
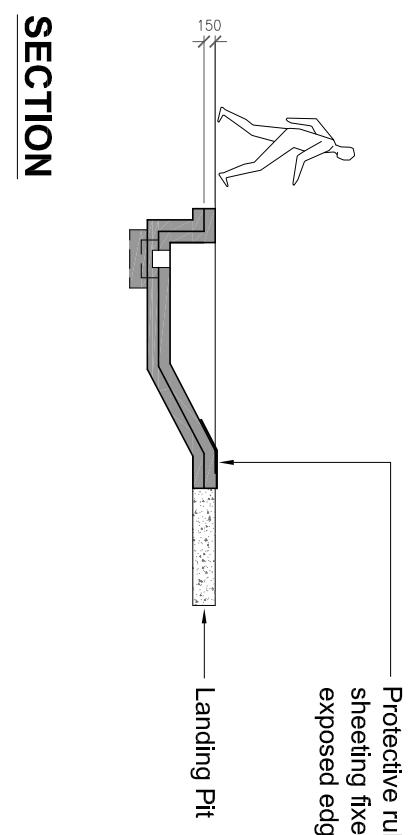


DO NOT SCALE: Contractor to check all dimensions and report any omissions or errors

NOTES:

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ISOMETRIC VIEW

Rev	Description	By	Chk	App	Date
C	TAKE OFF AREAS CHANGED TO ASTROTURF OR WETPOUR RUBBER SURFACING	SC	SP	SP	FEB '09

Client:

DEFENCE ESTATES
Delivering Estate Solutions to Defence Needs
Executive Park
Avalon Way
Ainstey
Leicester
LE7 7GR



White
Young
Green

Environmental
Civil Structural Mechanical Electrical Process Rail Traffic Environmental Project Management
Project:

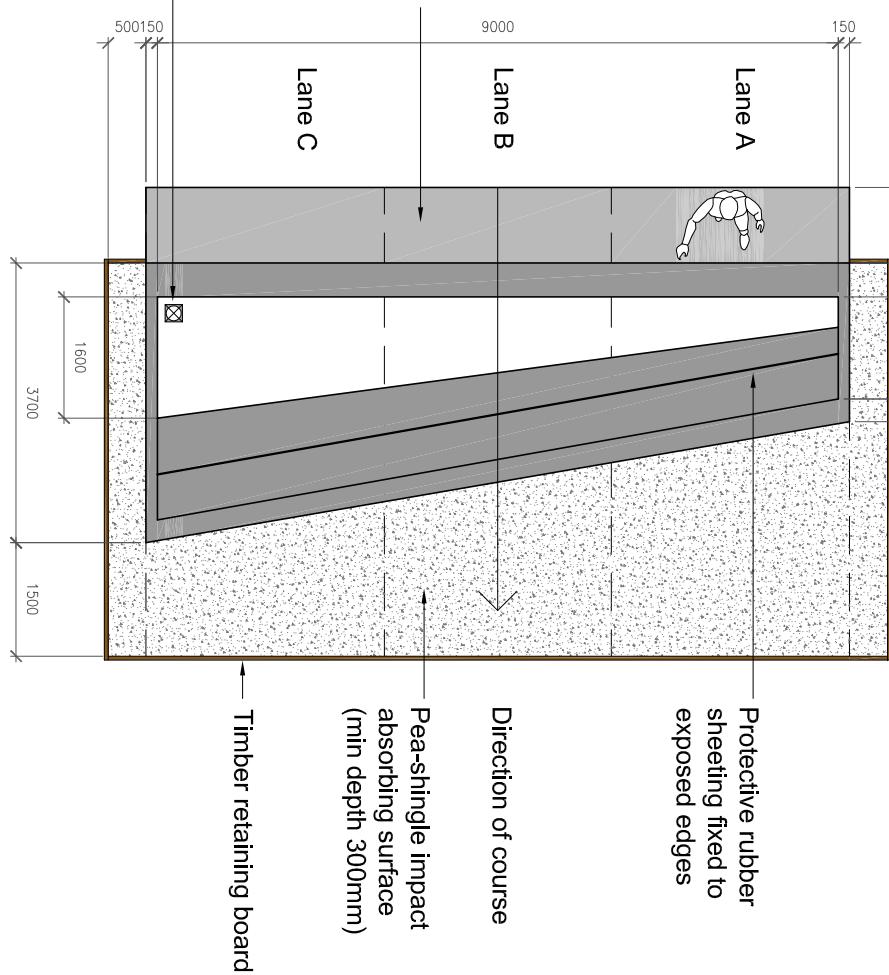
OBSTACLE COURSE DRAWINGS

Drawing Title:

OBSTACLE B6 - DRY DITCH
(JSP 315 SCALE 44, ANNEX B, SERIAL 6)

COURSE TYPE B

230mm² x 230mm deep
sump with 100mm dia drain
to ditch or soakaway with
removable plug to facilitate
ditch drainage



PLAN

APPROVAL <input type="checkbox"/>	INFORMATION <input checked="" type="checkbox"/>	TENDER <input type="checkbox"/>	CONTRACT <input type="checkbox"/>	CONSTRUCTION <input type="checkbox"/>
Scale A3 1:100	Drawn By <i>LW</i>	Checked By <i>SPP</i>	Date 20/09/06	Approved By <i>ACG</i>

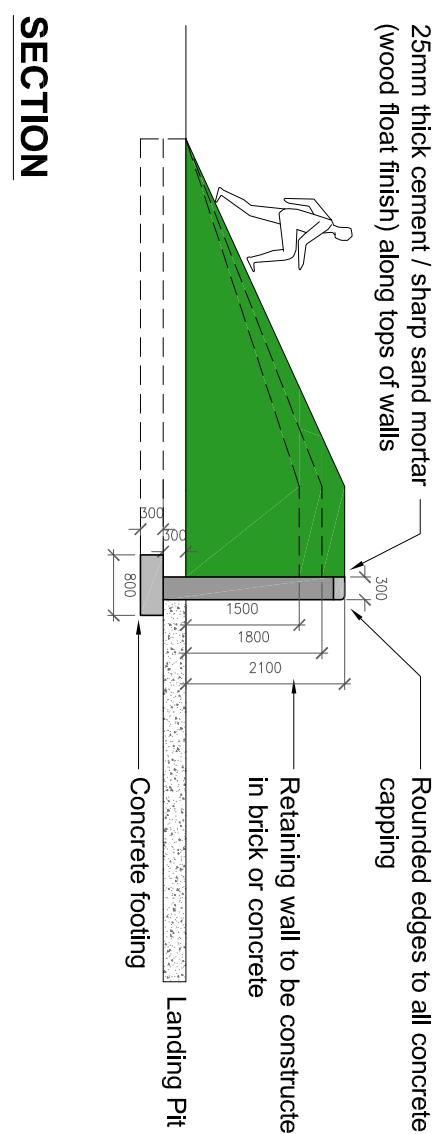
Project No. E008949	Office 35	Type 04	Drawing No. E8949/DE/B6	Revision C
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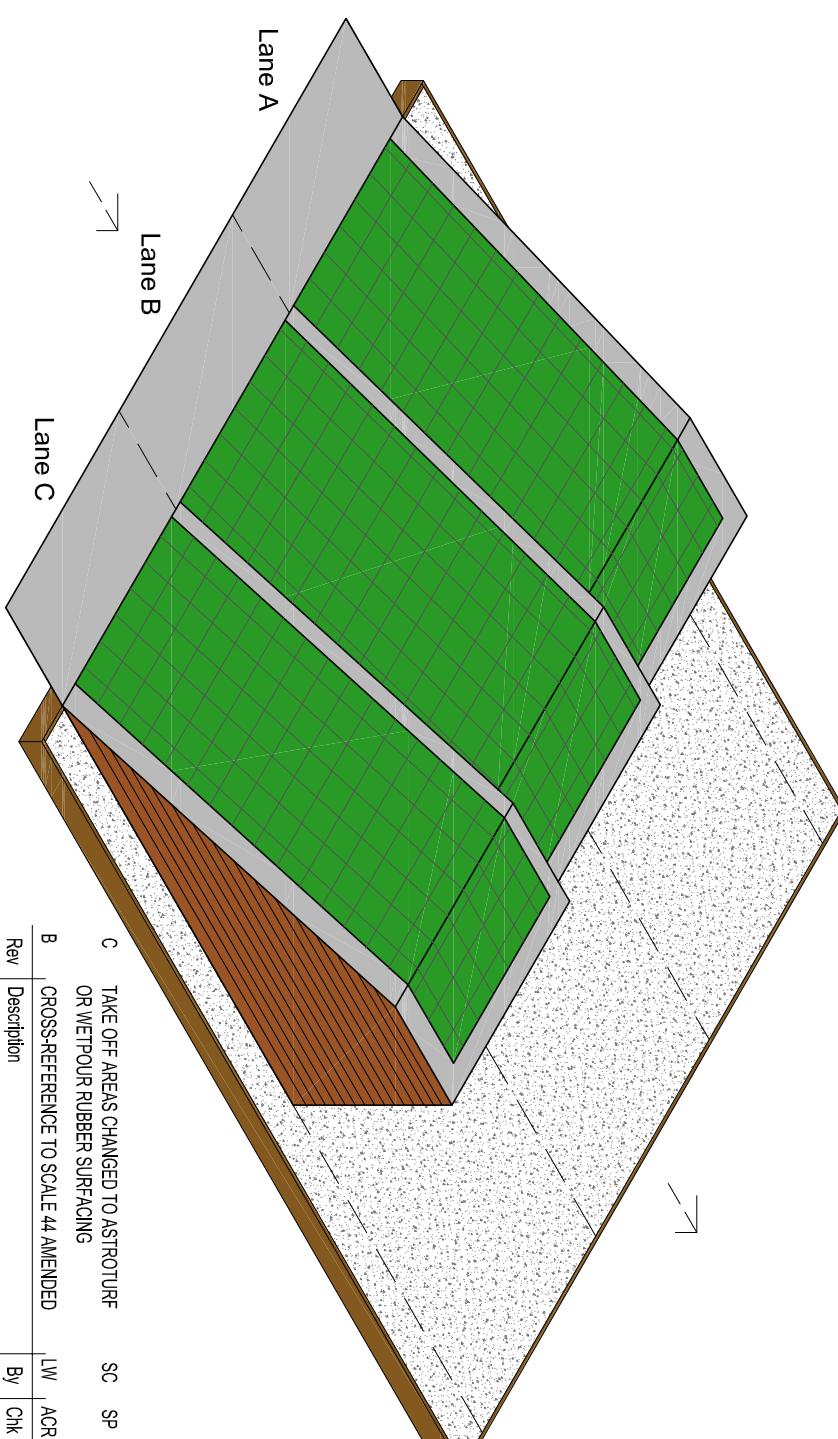
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DO NOT SCALE: Contractor to check all dimensions and report any omissions or errors



SECTION



ISOMETRIC VIEW

DEFENCE ESTATES

Delivering Estate Solutions to Defence Needs



C	TAKE OFF AREAS CHANGED TO ASTROTURF OR WETPOUR RUBBER SURFACING			SC	SP	SP	FEB '09
B	CROSS-REFERENCE TO SCALE 44 AMENDED			LW	ACR	ACR	JUNE '07
Rev	Description	By	Chk	App	Date		
Client:							

Executive Park
Avalon Way
Ainstey
Leicester
LE7 7GR

Environmental
Civil Structural Mechanical Electrical Process Rail Traffic Environmental Project Management

Project:

OBSTACLE COURSE DRAWINGS

Drawing Title:

OBSTACLE B7 - RAMP
(JSP 315 SCALE 44, ANNEX B, SERIAL 7)

COURSE TYPE B

Scale A3
1:100

Drawn By
LW

Date
21/09/06

Checked By
SPP

Date
21/09/06

Approved By
ACB

Date
22/09/06

Drawing No.
E8949/DE/B7

Revision
C

PLAN

Astro turf or
wet pour
rubber
surfacing
take-off area

Ramp to be turfed flush with top of
retaining walls on 150mm min. topsoil
using grass reinforcement system

Timber retaining board

Space between outside and partition
walls to be filled with earth or similar
suitable material and turfed to lower
level wall within each bay

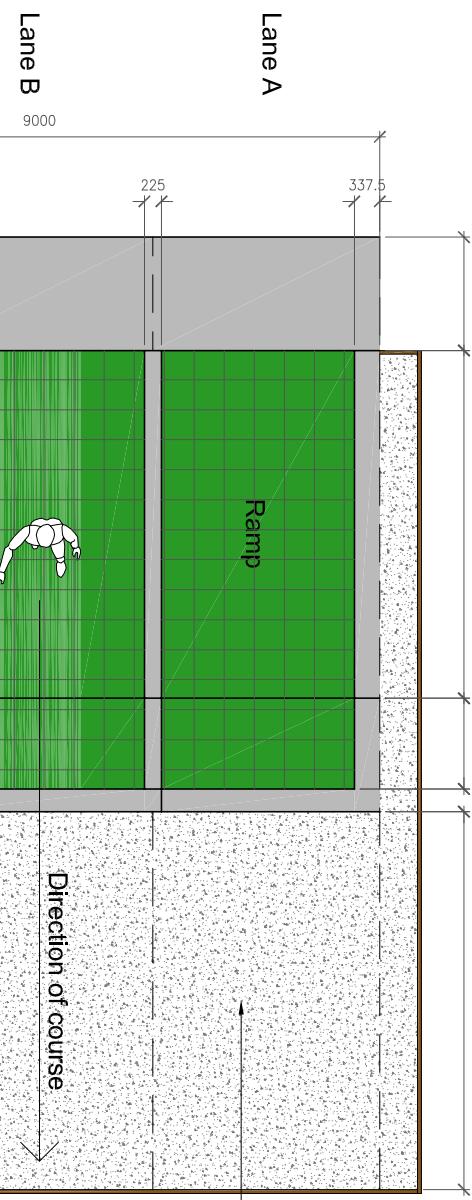
Pea-shingle impact absorbing surface
(min depth 300mm)

Ramp

Lane A

Lane B

Lane C



ISOMETRIC VIEW

Delivering Estate Solutions to Defence Needs



TYPES OF OBSTACLE COURSES:-

THESE DRAWINGS RELATE TO THE PROVISION OF BASIC OBSTACLES AS DEFINED IN JSP 315 SCALE OF ACCOMMODATION No. 44 FOR USE ON THE FOLLOWING TYPES OF OBSTACLE COURSE:-

COURSE TYPE A
(FOR USE BY TRAINED SERVICE PERSONNEL IN UNITS).

ALL OBSTACLES TO BE SUITABLE FOR 3 LANE USE WITH NO VARIATION IN DIFFICULTY BETWEEN LANES.

NUMBER OF OBSTACLES USED RANGES FROM A MINIMUM OF 14 TO A MAXIMUM OF 18.

LIST OF DE DESIGN DRAWINGS (A1-A18):-

E8949DEA/B01	GENERAL DESIGN GUIDANCE NOTES
E8949DEA/A1	SCHEMATIC LAYOUT - COURSE TYPE A (UNIT)
E8949DEA/2	OBSTACLE A1
E8949DEA/3	OBSTACLE A2
E8949DEA/4	- STEPS - DOUBLE DITCH
E8949DEA/5	OBSTACLE A3
E8949DEA/6	OBSTACLE A4
E8949DEA/7	- SINGLE WALL (LOW) - CRAWL
E8949DEA/8	OBSTACLE A5
E8949DEA/9	- DRY DITCH
E8949DEA/10	- RAMP
E8949DEA/11	OBSTACLE A6
E8949DEA/12	OBSTACLE A7
E8949DEA/13	OBSTACLE A8
E8949DEA/14	- SWING OVER DITCH - SINGLE WALL (HIGH)
E8949DEA/15	OBSTACLE A9
E8949DEA/16	OBSTACLE A10
E8949DEA/17	OBSTACLE A11
E8949DEA/18	OBSTACLE A12
	OBSTACLE A13
	OBSTACLE A14
	OBSTACLE A15
	OBSTACLE A16
	- OVERHAND TRAVERSE - STEPPING STONES
	OBSTACLE A17
	OBSTACLE A18
	- SWINGING DUCKBOARDS - CLIMBING ROPES

COURSE TYPE B (FOR USE BY TRAINEES AND RECRUITS).

ALL OBSTACLES TO BE SUITABLE FOR 3 LANE USE WITH VARIATION IN DIFFICULTY PROVIDED BETWEEN LANES, ALTHOUGH OBSTACLES WITHOUT VARIATIONS MAY BE USED.

NUMBERS OF OBSTACLES MAY VARY BUT IS USUALLY 9.

LIST OF DE DESIGN DRAWINGS (B1-B9):-

E8949DEA/B01	GENERAL DESIGN GUIDANCE NOTES
E8949DEB/B1	SCHEMATIC LAYOUT - COURSE TYPE B (TRAINEES)
E8949DEB/B2	OBSTACLE B1
E8949DEB/B3	OBSTACLE B2
E8949DEB/B4	OBSTACLE B3
E8949DEB/B5	OBSTACLE B4
E8949DEB/B6	OBSTACLE B5
E8949DEB/B7	- VAULT (VARYING HEIGHTS) - WATER DITCH (VARYING WIDTHS)
E8949DEB/B8	- WALL (VARYING HEIGHTS)-LOW
E8949DEB/B9	- BALANCE/WALLS (VARYING HEIGHTS) - DRY DITCH (VARYING WIDTHS) - RAMP (VARYING HEIGHTS) - COMBINATION CLIMBING ROPES - MAZE

NB. THE JSP SCALE DOES NOT COVER THE PROVISION OF OBSTACLES FOR CONFIDENCE BUILDING OR SPECIALIST COURSES.

THE SCHEMATIC LAYOUT DRAWINGS FOR TYPE A AND B COURSES ARE FOR INFORMATION PURPOSES ONLY AND ARE NOT TO BE REGARDED AS STANDARD LAYOUTS.

SITING AND LAYOUT OF COURSES

WHERE POSSIBLE, THE LAYOUT OF COURSES SHOULD BE DESIGNED AROUND EXISTING SITE FEATURES USING STREAMS, SITE CONTOURS AND FEATURES TO CREATE ADDITIONAL INTEREST. COURSES DO NOT NEED TO BE IN A STRAIGHT LINE.

THE SEQUENCE AND SPACING OF OBSTACLES IS TO BE SELECTED TO SUIT THE SITE, SAFETY AND THE INDIVIDUAL TRAINING REQUIREMENTS OF THE UNIT CONCERNED.

THE DISTANCES BETWEEN OBSTACLES SHOULD BE A MINIMUM OF 5 METRES AND A MAXIMUM OF 10 METRES.

NB. OBSTACLE IS INCLUSIVE OF LANDING AREA.

ADVICE ON THE LAYOUT OF OBSTACLE COURSES SHOULD BE SOUGHT FROM THE APPROPRIATE SERVICE PHYSICAL DEVELOPMENT DIRECTORATE / FORMATION HEADQUARTERS SO2 PAT AT AN EARLY STAGE OF THE DESIGN PROCESS.

HEALTH AND SAFETY

ALL MAIN LANDING PIT AREAS ARE TO BE FILLED WITH IMPACT ABSORBING MATERIAL TO A DEPTH OF 300mm USING 12mm PEA SHINGLE.

ALL SECONDARY LANDING AREAS UNDER AND AROUND OBSTACLES AND ANY UNTURFED SECTIONS OF THE COURSE ARE TO BE COVERED IN A MINIMUM OF 75mm DEEP PEA SHINGLE OR BARK CHIPPINGS AS APPROPRIATE.

ALL EXPOSED CONCRETE AND LEADING EDGES ON OBSTACLES ARE TO BE COVERED IN PROTECTIVE RUBBER SHEETING AS INDICATED ON THE DRAWINGS.

THE TOP SURFACES OF ALL PLANKS, TIMBER CAPPINGS AND LOGS ARE TO HAVE ANTI-SLIP FINISHES APPLIED AS INDICATED ON THE DRAWINGS.

TO HAVE ANTI-SLIP FINISHES APPLIED AS INDICATED ON THE DRAWINGS.

ALL CONCRETE CAPPINGS TO WALLS TO HAVE SMOOTH ROUNDED EDGES.

WARNING SIGNS ARE TO BE DISPLAYED AT STRATEGIC POINTS AROUND OBSTACLE COURSES INDICATING THAT ONLY PERSONNEL UNDER INSTRUCTION ARE ALLOWED TO USE THE OBSTACLES. THE AUTHORISED DESIGN CAN BE OBTAINED FROM OC TAS (CE), HQ INF WARMINSTER.

THE INFORMATION GIVEN IN THESE DESIGN DRAWINGS IS OF A GENERAL NATURE. WHEN THESE OBSTACLE DESIGNS ARE USED, CONSIDERATION MUST BE GIVEN TO THE SPECIFIC SITE CIRCUMSTANCES WHICH APPLY AT THE TIME, AND ANY OTHER INFORMATION, THAT WILL HAVE AN EFFECT ON ANY OTHER PERSONS' HEALTH AND SAFETY DURING THE CONSTRUCTION AND USE OF AN OBSTACLE COURSE.

OBSTACLE DESIGN REQUIREMENTS

BRICKWORK

ALL BRICKWORK TO BE CLASS B ENGINEERING QUALITY WITH REINFORCEMENT TO JOINTS AS NECESSARY.

TIMBER
ALL TIMBER IS TO BE PRESSURE IMPREGNATED WITH PRESERVATIVE.

STEEL TUBES
ALL EXPOSED MS STEEL TUBES ARE TO BE GALVANISED. ALL JOINTS ARE TO BE SITE WELDED AND TREATED WITH GALVANISING PAINT. ALL CUT ENDS ARE TO BE FITTED WITH PLASTIC CAPS.

EMI
EMI SHOULD BE LAID SO THAT THE LOZENGE IS 15mm LENGTH ALONG THE DIRECTION OF TRAVEL AND 40mm ACROSS THE DIRECTION.

TAKE-OFF AREAS
APPROACHES TO OBSTACLES SHOULD BE OF A FIRM SUBSTANCE WHICH ALLOWS SURE-FOOTED TRACTION TO ENABLE ACCELERATION EG. ASTRO-TURF, WET POUR RUBBER SURFACING. NB. NOT LOOSE FILLING SUCH AS PEA SHINGLE.

LANDING PITS
ALL PITS, EXCEPT WATER JUMPS ARE TO BE DRAINED TO A SUITABLE POINT OF DISCHARGE.

WATER JUMPS MUST BE ABLE TO BE DRAINED.

TOP AND BOTTOM ROPES:
THE TOP AND BOTTOM ROPES ARE TO BE 24MM-28MM DIAMETER, POLYESTER (LESS STRETCH PROPERTIES THAN POLYPROPYLENE OR MANILA) CONFORMING TO BS EN 697 OR A SUITABLE APPROVED BY DC IPT.

OTHER ROPES:

THE VERTICAL ROPES, HAND RAILS AND GUARD RAIL (HORIZONTAL MID-WAY BETWEEN TOP AND BOTTOM ROPES) ARE TO BE 12MM-16MM DIAMETER, POLYESTER CONFORMING TO BS EN 697 OR A SUITABLE APPROVED BY DC IPT.

ROPE ENDS:
THE ENDS OF THE TOP AND BOTTOM ROPES ARE TO HAVE THIMBLE EYES ATTACHED AND ARE TO BE SPLICED AND SEIZED IN ACCORDANCE WITH BR 68, CHAPTER 3.

DISTORTION PREVENTION:

THE VERTICAL ROPES ARE TO BE SPLICED WITH THE TOP AND BOTTOM ROPES AND THE GUIDE RAIL ROPE TO PREVENT DISTORTION.

SECURING THE BURMA ROPE BRIDGE:

THE TOP AND BOTTOM ROPES ARE TO BE SECURED DIRECT TO THE MAIN FRAME VIA THE THIMBLE EYES AND TO A BOTTLE SCREW TO D OR BOW (PREFERRED) GALVANISED STEEL OR ALLOY SHACKLES.

ANY PERSON CARRYING OUT A RISK ASSESSMENT OR INSTRUCTING MUST BE ABLE TO SEE WHETHER THE SCREW/TURN BUCKLES THAT SECURE/TENSION THE BURMA BRIDGE ROPES TO THE FRAME HAVE BEEN UNDONE OR LOOSENED SINCE THE LAST USE.

TOP AND BOTTOM ROPES:

THE MAIN ROPE IS TO BE 28MM-34MM DIAMETER, NATURAL (MANILA GRADE 1 PREFERRED) OR SYNTHETIC (POLYPROPYLENE) AND CONFORM TO BS EN 698 (FOR MANILA ROPE) OR BS EN 699 (FOR POLYPROPYLENE ROPE) OR A SUITABLE ALTERNATIVE APPROVED BY DC IPT.

THE BOTTOM END OF THE ROPE IS TO BE SPLICED AND SEIZED IN ACCORDANCE WITH BR 68, CHAPTER 3. THE TOP END OF THE ROPE IS APPROVED BY DC IPT.

THE ROPE SWING IS TO BE ATTACHED TO THE MAIN FRAME VIA D OR BOW (PREFERRED) GALVANISED STEEL OR ALLOY SHACKLES.

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NET DISTORTION:
NET MESH SHOULD BE 225MM SQUARE KNOTTED AND SPLICED TO PREVENT DISTORTION.

LASHING:
NETS ARE TO BE LASHER DIRECTLY TO THE MAIN FRAME USING 16MM-20MM NATURAL OR SYNTHETIC ROPE. EXCEPTIONALLY, NYLON TEXTILE, 2 PLY, OLIVE DRAB/BLACK, 50MM WIDE WEBBING MAY BE USED.

WEBBING BUCKLES:
WHERE WEBBING IS USED, IT IS TO BE SECURED USING BUCKLES SL50, ACETAL, G1, BLACK 902 MANUFACTURED BY TW NEXUS LTD, KINGSWICK HOUSE, SUNNINGHILL, BERKS SL5 7BH OR SUITABLE ALTERNATIVE APPROVED BY DC IPT.

WEBBING BUCKLES:
WHERE WEBBING IS USED, THE THREAD TO BE USED IS POLYESTER AND COTTON CONTINUOUS FILAMENT POLYESTER CORE, COTTON SHEATH, OLIVE DRAB TO BS EN 12590:2000; TABLE 5 METRIC TICKET NO 25.

SCRAMBLE NETS:
SCRAMBLE NETS ARE TO BE LASHED TO THE OBSTACLE FRAME ALONG EACH SIDE AND ACROSS THE TOP. SIDE LASHING IS TO BE A MINIMUM OF ONE LOOP TO EACH SQUARE AND TOP LASHING IS TO BE A MINIMUM OF TWO LOOPS TO EACH SQUARE.

TENSION:
SCRAMBLE NETS MAY BE TENSIONED TO TAKE UP ANY SLACK THROUGH CONTINUED USE, BY RE-LASHING.

BURMA BRIDGE ROPEWORK

TOP AND BOTTOM ROPES:
THE TOP AND BOTTOM ROPES ARE TO BE 24MM-28MM DIAMETER, POLYESTER (LESS STRETCH PROPERTIES THAN POLYPROPYLENE OR MANILA) CONFORMING TO BS EN 697 OR A SUITABLE APPROVED BY DC IPT.

OTHER ROPES:
THE VERTICAL ROPES, HAND RAILS AND GUARD RAIL (HORIZONTAL MID-WAY BETWEEN TOP AND BOTTOM ROPES) ARE TO BE 12MM-16MM DIAMETER, POLYESTER CONFORMING TO BS EN 697 OR A SUITABLE APPROVED BY DC IPT.

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DISTORTION PREVENTION:
THE VERTICAL ROPES ARE TO BE SPLICED WITH THE TOP AND BOTTOM ROPES AND THE GUIDE RAIL ROPE TO PREVENT DISTORTION.

SECURING THE BURMA ROPE BRIDGE:

THE TOP AND BOTTOM ROPES ARE TO BE SECURED DIRECT TO THE MAIN FRAME VIA THE THIMBLE EYES AND TO A BOTTLE SCREW TO D OR BOW (PREFERRED) GALVANISED STEEL OR ALLOY SHACKLES.

ANY PERSON CARRYING OUT A RISK ASSESSMENT OR INSTRUCTING MUST BE ABLE TO SEE WHETHER THE SCREW/TURN BUCKLES THAT SECURE/TENSION THE BURMA BRIDGE ROPES TO THE FRAME HAVE BEEN UNDONE OR LOOSENED SINCE THE LAST USE.

ROPE SWING ROPEWORK

MAIN ROPE:

THE MAIN ROPE IS TO BE 28MM-34MM DIAMETER, NATURAL (MANILA GRADE 1 PREFERRED) OR SYNTHETIC (POLYPROPYLENE) AND CONFORM TO BS EN 698 (FOR MANILA ROPE) OR BS EN 699 (FOR POLYPROPYLENE ROPE) OR A SUITABLE ALTERNATIVE APPROVED BY DC IPT.

THE BOTTOM END OF THE ROPE IS TO BE SPLICED AND SEIZED IN ACCORDANCE WITH BR 68, CHAPTER 3.

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