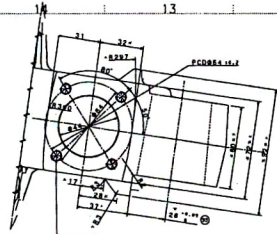
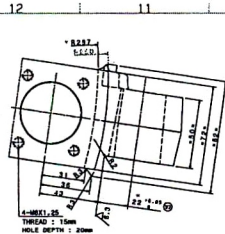


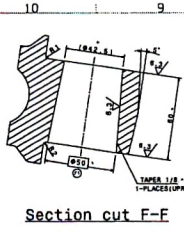
KEY PRODUCT CHARACTERISTIC			
① SAFETY/COMPLIANCE	② FIT/FUNCTION/APPEARANCE		
③ SFC CHECK POINTS	④ P/FIN CHECK POINTS		
NO.	ZONE	DESCRIPTION	RATIONALE
①	B12	WEIGHT OF LINK PIV HOLE OF ARMOR	TOLERANCE CONTROL
②	C16/C16	HUB HOLE MT-G	TOLERANCE CONTROL
③	D11/D12	ARMOR HOLE MT-G AND HUB	TOLERANCE CONTROL
④	D10/D11	TAPER DIAMETER	TOLERANCE CONTROL
⑤	E10	KIND PIN - CAMBER ANGLE	FOR WHEEL ALIGNMENT
⑥	B12/C12	SPACING OF STEEL ARM HOLE	TOLERANCE CONTROL
⑦	E5/E5	STEEL SPEC.	DBE-0611
⑧	E5/E6	STOPPER BOLT MT-G	TOLERANCE CONTROL



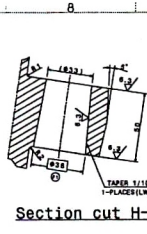
Section view E-E



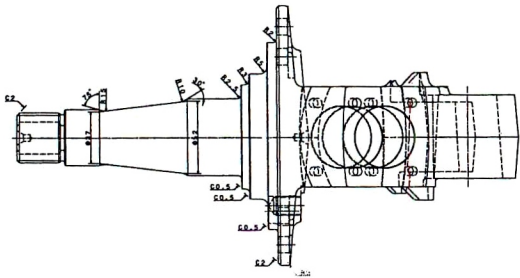
Section view I-I



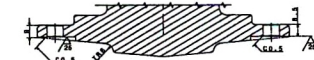
Section cut F-F



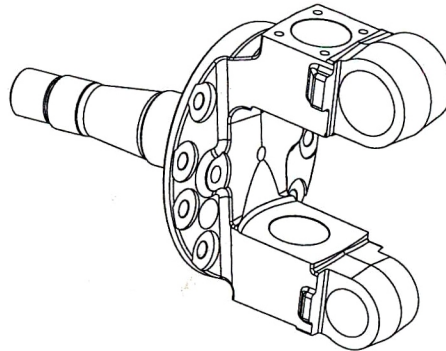
Section cut H-H



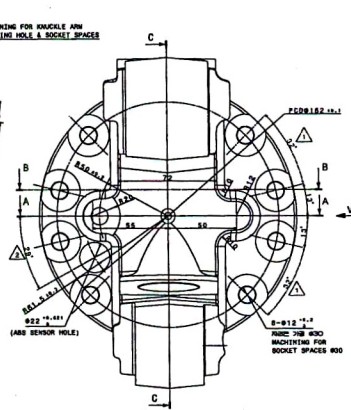
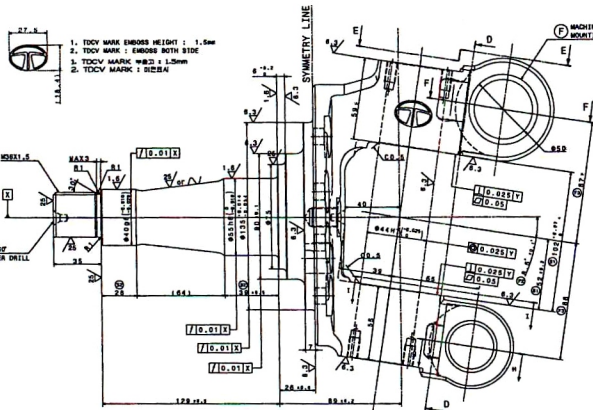
Section cut B-B



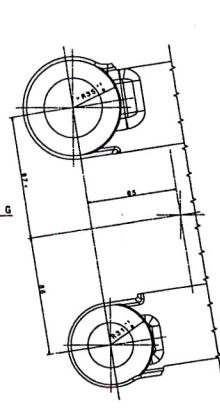
Section cut A-A



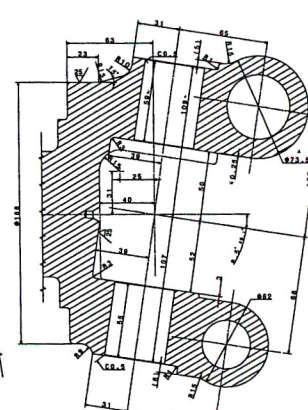
ISO VIEW



Section cut C-C



VIEW G



Section view D-D

- NOTE**
- UNSPECIFIED TOLERANCES MUST BE CONFORMED TO KS B 0412.
 - UNSPECIFIED DRAFT ANGLES TO BE 5°.
 - UNSPECIFIED CORNER RADII TO BE R3.
 - ECCENTRICITY OF Y AXIS ABOUT X AXIS MUST BE WITHIN 0.1.
 - HEAT TREATMENT: INTERNAL REFINING HARDNESS H_{RC} 285 - 330
 - ALL FORGING MATERIALS MUST BE EXAMINED USING M.P.T. (MAGNETIC PARTICLE INSPECTION).
 - UPPER AND LOWER ECCENTRICITIES OF HOLE ABOUT Y AXIS MUST BE WITHIN 0.015.
 - THIS DRAWING SHOWS ONLY LH PART, AND RH PART IS SYMMETRICAL TO LH PART.
 - KNUCKLE ARM MT-G HOLE MUST BE MACHINED IN ONLY LH PART.
 - AREAS TO BE MACHINED SYMMETRICALLY: STOPPER BOLT.
 - FINISH: DBE-0611(BLACK ENAMEL PAINT)
 - LUBRICATE MUST PREVENTING DILKALKALINE(PH7.4 - 7.6) J-020 TO MACHINED AREA.)
 - REFER TO 3D MODEL FOR DETAILED SHAPE.
 - MUST BE FREE FROM BURRS AND SHARP EDGES
 - * MARKS INDICATE MODIFIED DIMENSIONS COMPARING TO P/FIN: 33841 00100/00020.

- NOTE**
- ARMOR HOLE: KS B 0412H DBE 12.
 - ARMOR HOLE: 5%.
 - ARMOR HOLE: IN SHOWN HOLE.
 - Y AXIS OF HOLE: DBE 0412H DBE 12.
 - ARMOR HOLE: H_{RC} 285 - 330.
 - ARMOR HOLE: H_{RC} 285 - 330.
 - Y AXIS OF HOLE: H_{RC} 285 - 330.
 - ARMOR HOLE: H_{RC} 285 - 330.
 - ARMOR HOLE: H_{RC} 285 - 330.
 - ARMOR HOLE: H_{RC} 285 - 330.
 - ARMOR HOLE: H_{RC} 285 - 330.
 - ARMOR HOLE: H_{RC} 285 - 330.
 - ARMOR HOLE: H_{RC} 285 - 330.
 - ARMOR HOLE: H_{RC} 285 - 330.
 - ARMOR HOLE: H_{RC} 285 - 330.

NO.	PART NO.	P/FIN.	PART NAME	①	MATERIAL	WEIGHT(g)	REMARK	DR
1	33841 01090	001	KNUCKLE-STEEL LH	D	SCM440H	12.2		DR3
2	33841 01100	001	KNUCKLE-STEEL RH	X	SCM440H	12.2	OPPOSITE, 1/18(FITMENT)	DR3

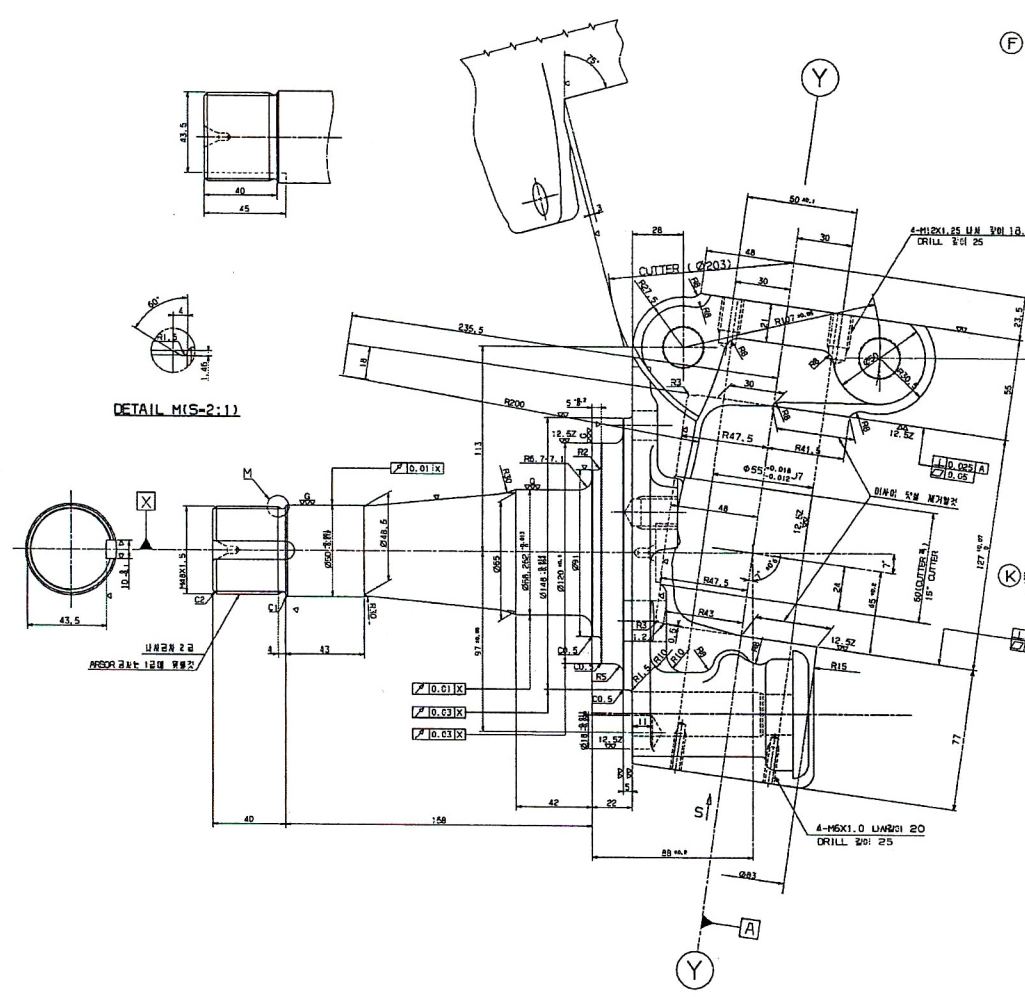
DESIGNER	W.K.LEE	DATE	02.08.08
CHECKER	K.S.SEO	DATE	02.08.08
APPROVER	K.J.YU	DATE	02.08.08

Third Angle Projection

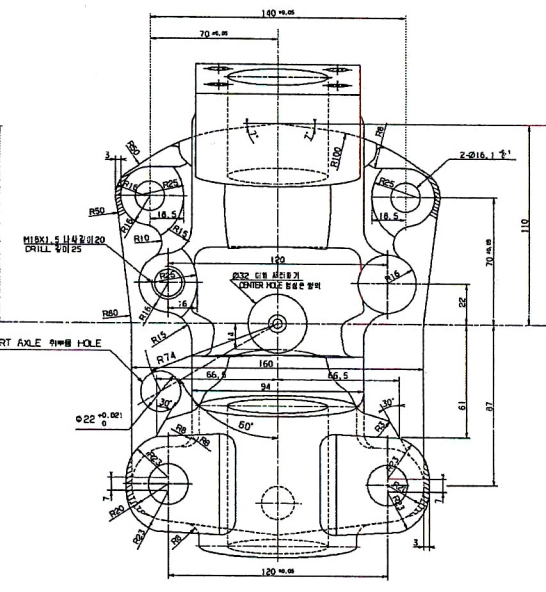
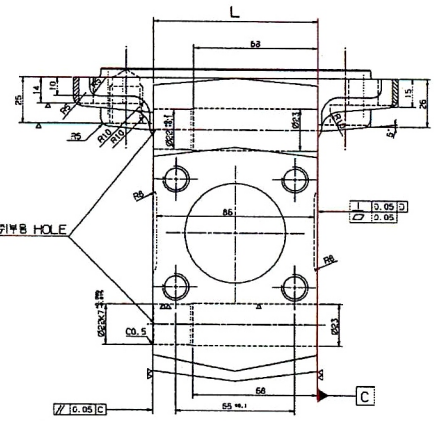
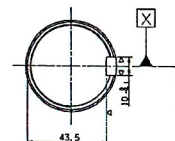
KNUCKLE-STEEL

33841 01090 01 FD-08

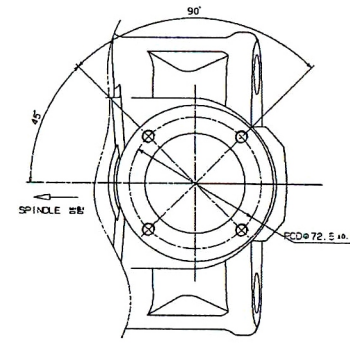
33841 01090



DETAIL M(S-2:1)



- NOTE
1. 차축 볼트 : SA-E-005 40mm.
 2. 차축 너트 : 7" S.
 3. 차축 핀 : 5mm R8 S.
 4. 차축 핀 홈 : 0.1mm R8 S.
 5. 차축 핀 홈 : 0.1mm R8 S.
 6. 차축 핀 홈 : 0.1mm R8 S.
 7. 차축 핀 홈 : 0.1mm R8 S.
 8. 차축 핀 홈 : 0.1mm R8 S.
 9. 차축 핀 홈 : 0.1mm R8 S.
 10. 차축 핀 홈 : 0.1mm R8 S.
 11. 차축 핀 홈 : 0.1mm R8 S.

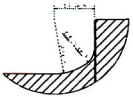


VIEW S
S=1:1

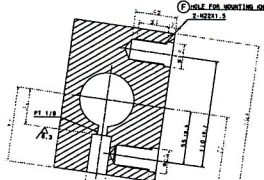
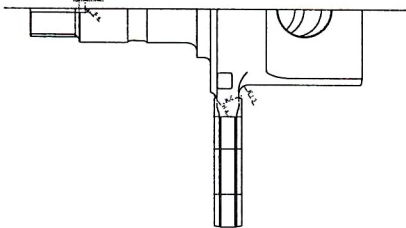
5	33841 00340	KNUCKLE, LH	우	우	94	SCM 440H	17.97			표도
4	33841 00330	KNUCKLE, RH	우	우	94	SCM 440H	17.97			표도외 대장
3	33841 00320	KNUCKLE, LH	우	우	90 ±0.3	SCM 440H	17.97			표도
2	33841 00310	KNUCKLE, RH	우	우	94	SCM 440H	17.97			표도외 대장
1	33841 00300	KNUCKLE, LH	우	우	90 ±0.3	SCM 440H	17.97			표도
NO	P / NO	P/NAME	(F) 유, 무	(K) 유, 무	L	MATERIAL	EST WEIGHT(KG)	ACT WEIGHT(KG)	차종	REMARK

01 03:024		PRODUCTION RELEASE	ECPC31109
00 03:018		PREPROTO RELEASE	ECPC30621
REV	DATE	REVISED BY	AUTHORITY
REVISION RECORD			
PROPERTY OF UNICOM COMMERCIAL VEHICLE. THIS DRAWING MUST NOT BE REPRODUCED OR DISCLOSED TO THIRD PARTIES WITHOUT THE PRIOR CONSENT OF UNICOM COMMERCIAL VEHICLE. ALL RIGHTS RESERVED.			
PROTO	PRODUCTION	DESIGN	CHECK
PRODUCTION		DESIGN	CHECK
THIRD PARTY PRODUCTION		DESIGN	CHECK
DWG DATE	2003-10-24	SCALE	1:1
KNUCKLE, LH - 6.5 DEG			
DRAWING NO.	33841 00300	REV. NO.	01
			A0

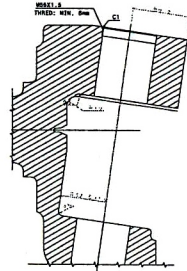
KEY PRODUCT CHARACTERISTIC				
NO.	TYPE	ZONE	DESCRIPTION	RATIONALITY
1	SAFETY/COMPLIANCE			
2	S/C CHECK POINTS			
3	FIT/FUNCTION/APPEARANCE			
4	F/F/A CHECK POINTS			
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				



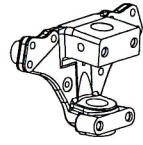
DETAIL "A"



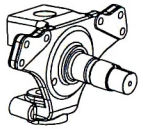
Section cut C-C



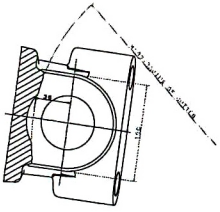
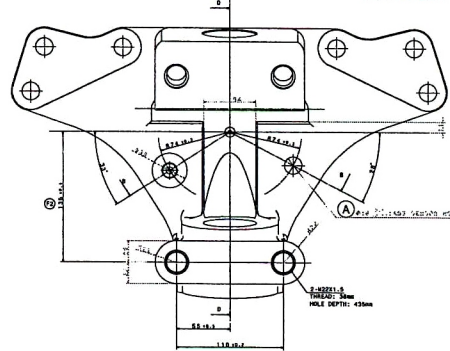
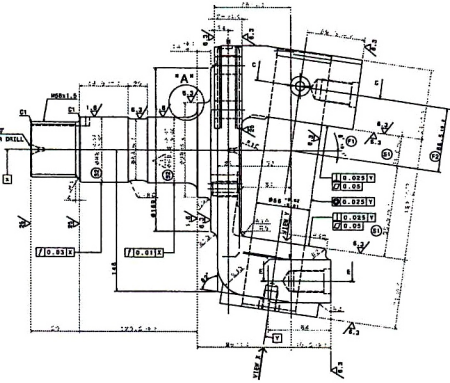
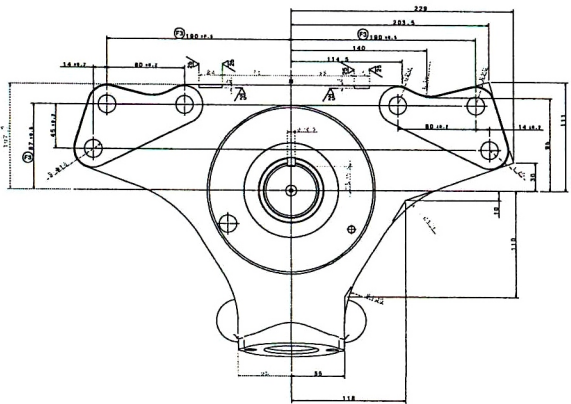
Section cut D-D



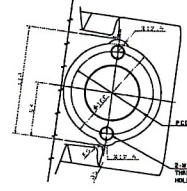
Isometric view 11:30



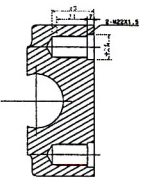
Isometric view 11:30



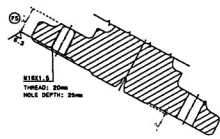
VIEW Y



VIEW X



Section cut E-E



Section cut B-B

- NOTE
- UNSPECIFIED PERMISSIBLE TOLERANCE
 - CART 1200: GENERAL PERMISSIBLE TOLERANCE: 48 B 0411-1801 HIGH TOLERANCE GRADE
 - PERMISSIBLE TOLERANCE IN DIMENSION OF MACHINED PART
 - ES B 0412-1876 GENERAL TOLERANCE GRADE
 - UNSPECIFIED DRAFT ANGLES TO BE 3°.
 - UNSPECIFIED CONNER RADII TO BE R5.
 - ECCENTRICITY OF X AXIS ABOUT Y AXIS MUST BE WITHIN 0.1.
 - HEAT TREATMENT: THERMAL STRENGTHENING HARDNESS H, 289 - 341
 - ALL FINISHING OPERATIONS MUST BE EXAMINED USING M.P.I. (ISOMETRIC PARTICLE INSPECTION).
 - UPPER AND LOWER ECCENTRICITIES OF HOSE HOLE ABOUT Y AXIS MUST BE WITHIN 0.010.
 - THIS DRAWING SHOWS ONLY LH PART, AND RH PART IS SYMMETRICAL TO LH PART.
 - KNUCKLE ARM WITH HOSE HOLE MUST BE MACHINED IN ONLY LH PART.
 - FINISH: 030-REINFORCE GRANULAR PAINT
 - LUBRICATE RUST PREVENTING OIL ALKALINE (PHIT-A - F.8) J-225 TO MACHINED AREAS.
 - REFER TO 3D MODEL FOR DETAILED SHAPE.

- NOTE
- KNUCKLE ARM WITH HOSE HOLE MUST BE MACHINED IN ONLY LH PART.
 - FINISH: 030-REINFORCE GRANULAR PAINT
 - LUBRICATE RUST PREVENTING OIL ALKALINE (PHIT-A - F.8) J-225 TO MACHINED AREAS.
 - REFER TO 3D MODEL FOR DETAILED SHAPE.

REV	DATE	BY	CHKD	DESCRIPTION
1				3D MODEL FILE: 3D-KNUCKLE.ASM
2				E.C.D. SMALL AREA AND COMPENSATE MAT
3				REVISED DIMENSIONS
4				REVISED DIMENSIONS

Third Angle Projection

PROJ: 1st ANGLE

PROJ: 2nd ANGLE

PROJ: 3rd ANGLE

PROJ: 4th ANGLE

PROJ: 5th ANGLE

PROJ: 6th ANGLE

PROJ: 7th ANGLE

PROJ: 8th ANGLE

PROJ: 9th ANGLE

PROJ: 10th ANGLE

PROJ: 11th ANGLE

PROJ: 12th ANGLE

PROJ: 13th ANGLE

PROJ: 14th ANGLE

PROJ: 15th ANGLE

PROJ: 16th ANGLE

PROJ: 17th ANGLE

PROJ: 18th ANGLE

PROJ: 19th ANGLE

PROJ: 20th ANGLE

PROJ: 21st ANGLE

PROJ: 22nd ANGLE

PROJ: 23rd ANGLE

PROJ: 24th ANGLE

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PROJ: 29th ANGLE

PROJ: 30th ANGLE

PROJ: 31st ANGLE

PROJ: 32nd ANGLE

PROJ: 33rd ANGLE

PROJ: 34th ANGLE

PROJ: 35th ANGLE

PROJ: 36th ANGLE

PROJ: 37th ANGLE

PROJ: 38th ANGLE

PROJ: 39th ANGLE

PROJ: 40th ANGLE

PROJ: 41st ANGLE

PROJ: 42nd ANGLE

PROJ: 43rd ANGLE

PROJ: 44th ANGLE

PROJ: 45th ANGLE

PROJ: 46th ANGLE

PROJ: 47th ANGLE

PROJ: 48th ANGLE

PROJ: 49th ANGLE

PROJ: 50th ANGLE

PROJ: 51st ANGLE

PROJ: 52nd ANGLE

PROJ: 53rd ANGLE

PROJ: 54th ANGLE

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PROJ: 60th ANGLE

PROJ: 61st ANGLE

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PROJ: 91st ANGLE

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PROJ: 210th ANGLE

PROJ: 211st ANGLE

PROJ: 212nd ANGLE

PROJ: 213th ANGLE

PROJ: 214th ANGLE

PROJ: 215th ANGLE

PROJ: 216th ANGLE

PROJ: 217th ANGLE

PROJ: 218th ANGLE

PROJ: 219th ANGLE

PROJ: 220th ANGLE

PROJ: 221st ANGLE

PROJ: 222nd ANGLE

PROJ: 223rd ANGLE

PROJ: 224th ANGLE

PROJ: 225th ANGLE

PROJ: 226th ANGLE

PROJ: 227th ANGLE

PROJ: 228th ANGLE

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PROJ: 230th ANGLE

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PROJ: 250th ANGLE

PROJ: 251st ANGLE

PROJ: 252nd ANGLE

PROJ: 253rd ANGLE

PROJ: 254th ANGLE

PROJ: 255th ANGLE

PROJ: 256th ANGLE

PROJ: 257th ANGLE

PROJ: 258th ANGLE

PROJ: 259th ANGLE

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PROJ: 261st ANGLE

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PROJ: 271st ANGLE

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PROJ: 281st ANGLE

PROJ: 282nd ANGLE

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PROJ: 303rd ANGLE

PROJ: 304th ANGLE

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PROJ: 309th ANGLE

PROJ: 310th ANGLE

PROJ: 311st ANGLE

PROJ: 312nd ANGLE

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PROJ: 315th ANGLE

PROJ: 316th ANGLE

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PROJ: 332nd ANGLE

PROJ: 333rd ANGLE

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PROJ: 336th ANGLE

PROJ: 337th ANGLE

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PROJ: 340th ANGLE

PROJ: 341st ANGLE

PROJ: 342nd ANGLE

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