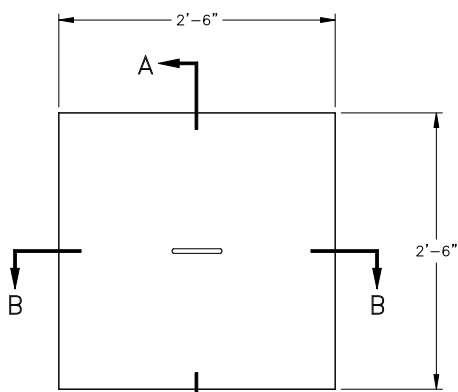
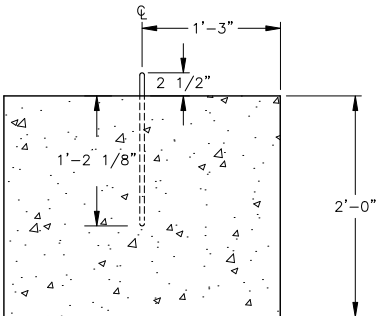


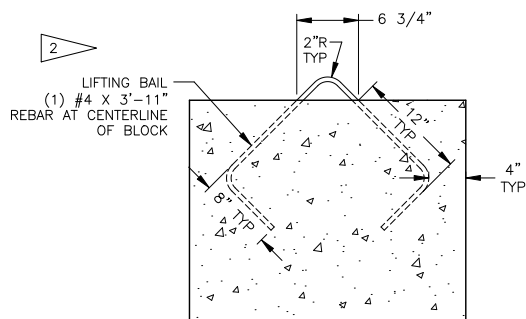
1 ISOMETRIC VIEW - BLOCK 1
SCALE: 3/4" = 1'-0"



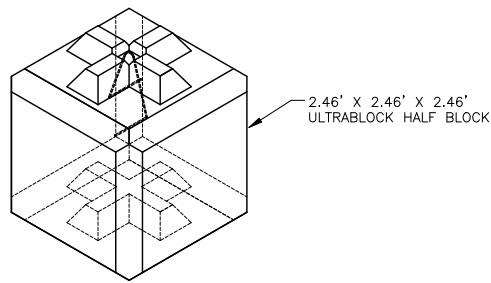
PLAN VIEW - BLOCK 1
SCALE: 1-1/2" = 1'-0"



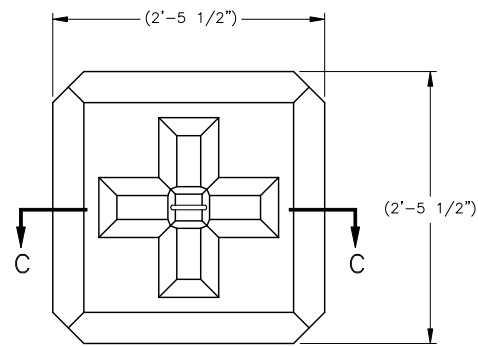
A SECTION - BLOCK 1
SCALE: 1-1/2" = 1'-0"



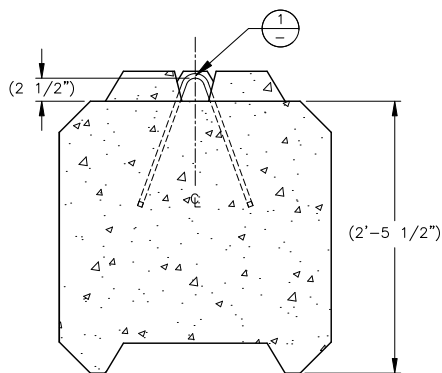
B SECTION - BLOCK 1
SCALE: 1-1/2" = 1'-0"



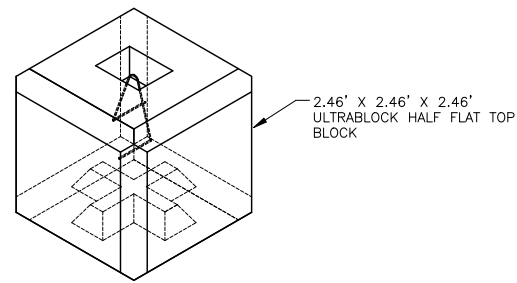
3 ISOMETRIC VIEW - BLOCK 2
SCALE: NTS



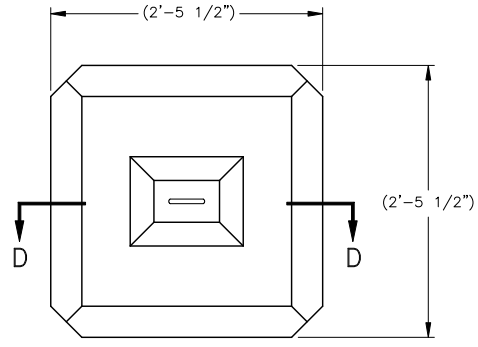
PLAN VIEW - BLOCK 2
SCALE: NTS
NOTE:
DIMENSIONS ARE APPROXIMATE AND FOR REFERENCE.
REFER TO ULTRABLOCK FOR PRECISE BLOCK DIMENSIONS.



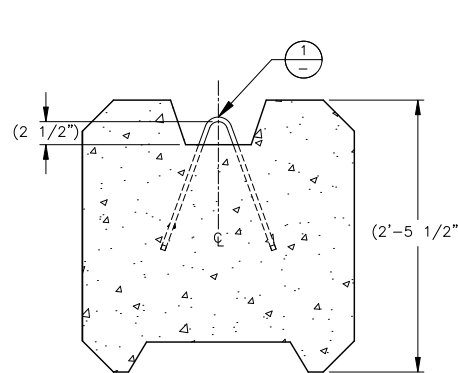
C SECTION - BLOCK 2
SCALE: NTS
NOTE:
DIMENSIONS ARE APPROXIMATE AND FOR REFERENCE.
REFER TO ULTRABLOCK FOR PRECISE BLOCK DIMENSIONS.



4 ISOMETRIC VIEW - BLOCK 3
SCALE: NTS



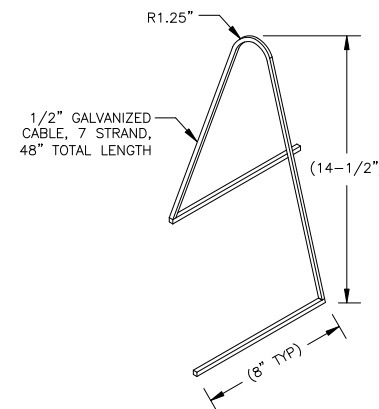
PLAN VIEW - BLOCK 3
SCALE: NTS
NOTE:
DIMENSIONS ARE APPROXIMATE AND FOR REFERENCE.
REFER TO ULTRABLOCK FOR PRECISE BLOCK DIMENSIONS.



D SECTION - BLOCK 3
SCALE: NTS
NOTE:
DIMENSIONS ARE APPROXIMATE AND FOR REFERENCE.
REFER TO ULTRABLOCK FOR PRECISE BLOCK DIMENSIONS.

GENERAL NOTES:

- 1 THE FOLLOWING REQUIREMENTS APPLY TO THE DESIGN AND FABRICATION OF BLOCKS:
 - A. CONCRETE SHALL BE PER AMERICAN CONCRETE INSTITUTE (ACI) 318 AND 301.
 - B. CONCRETE BLOCK MANUFACTURER SHALL IMPLEMENT A DOCUMENTED SYSTEM FOR QUALITY CONTROL OF THE BLOCK FABRICATIONS. THE SYSTEM SHALL INCLUDE RANDOM TESTING OF A MINIMUM 10% OF LIFTING BAILS TO A 125% LOAD TEST FOR EACH CONTRACTOR PURCHASE ORDER.
 - C. EACH CONCRETE BLOCK SHALL BE PERMANENTLY MARKED (ETCHED OR STENCILED) ON OPPOSITE SIDES OF THE BLOCK WITH THE CONTRACT NUMBER, THE MONTH AND YEAR OF FABRICATION, AND WEIGHT.
 - D. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.
 - E. CONCRETE BLOCKS SHALL MEET THE FOLLOWING REQUIREMENTS:
 - ACI 117 - STANDARD SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS
 - ACI 305 - HOT WEATHER CONCRETING
 - ACI 306 - COLD WEATHER CONCRETING
 - F. SEE RPP-CALC-53670 "PRECAST CONCRETE BLOCK LIFTING ANALYSIS" FOR ANALYSIS OF BLOCK 1.
 - G. INFORMATION DOCUMENTING COMPLIANCE WITH THE REQUIREMENTS NOTED HERE SHALL BE AVAILABLE TO THE CONTRACTOR UPON REQUEST OR AS REQUIRED BY THE CONTRACT.
- 2 LIFTING BAILS SHALL BE A MINIMUM GRADE 60 STEEL PER ASTM A615 OR ASTM A706 FOR BLOCK 1.
- 3 DRAWING IS BASED ON VENDOR INFORMATION FOR AN "ULTRABLOCK HALF BLOCK". SEE RPP-RPT-54445 "ULTRABLOCK TESTING & MATERIAL COMPLIANCE" FOR DESIGN, TESTING AND CERTIFICATION OF MATERIAL COMPLIANCE RELATING TO STRAND WIRE LIFTING BAIL AND CONCRETE USED IN THE ULTRABLOCK.
- 4 DRAWING IS BASED ON VENDOR INFORMATION FOR AN "ULTRABLOCK HALF FLAT TOP BLOCK". THIS PRODUCT IS SIMILAR TO ULTRABLOCK HALF BLOCK. FOR DESIGN, TESTING, AND CERTIFICATE OF COMPLIANCE; USE THE SAME REQUIREMENTS AS SPECIFIED FOR ULTRABLOCK HALF BLOCK.
5. APPROXIMATE WEIGHTS OF BLOCKS ARE AS FOLLOWS:
 - A. CONCRETE BLOCK 1: 1,875 LBS
 - B. ULTRABLOCK 2: 2,160 LBS
 - C. ULTRABLOCK 3: 2,150 LBS
 - D. ULTRABLOCK FULL 4: 4,320 LBS
 - E. ULTRABLOCK FULL 5: 4,300 LBS



1 DETAIL
SCALE: NTS
NOTE:
DIMENSIONS ARE APPROXIMATE AND FOR REFERENCE.
REFER TO ULTRABLOCK FOR PRECISE DIMENSIONS.

DATE: Jul 28, 2020 HANFORD RELEASE

DWG NUMBER	TITLE	REF NUMBER	TITLE
2	INCORP ECN-14-000841		

BLDG NO 200G		CAUTION: NOT COMPLETE WITHOUT CURRENT CHANGE DOCUMENTS FROM DATABASE	
DESIGNED BY K Y WOODWORTH	DATE 07/28/20	U.S. DEPARTMENT OF ENERGY Office of River Protection	
DRAWING CHECKED BY M A CRUSSELLE	DATE 07/28/20	STRUCTURAL ENGINEERED AND MARKED CONCRETE BLOCK	
DESIGN AUTHORITY S V PALMROSE	DATE 07/28/20	SIZE F	DRAWING NUMBER H-14-109807
		SCALE AS SHOWN	SHEET NO 1