

ENGINEERING CONSTRUCTION DETAILS

DWG. NO. SHEET NO. REV. DRAWING TITLE

V2-000X SYMBOLS AND ABBREVIATIONS

V2-000	1 OF 4	3	ABBREVIATIONS
V2-000	2 OF 4	3	ABBREVIATIONS
V2-000	3 OF 4	3	ABBREVIATIONS
V2-000	4 OF 4	3	ABBREVIATIONS
V2-000A	1 OF 1	1	MATERIAL DESIGNATIONS
V2-000B	1 OF 2	3	WALL DESIGNATIONS
V2-000B	2 OF 2	0	WALL DESIGNATIONS
V2-000C	1 OF 3	1	SYMBOL DESIGNATIONS
V2-000C	2 OF 3	1	SYMBOL DESIGNATIONS
V2-000C	3 OF 3	3	SYMBOL DESIGNATIONS
V2-000D	3 OF 3	1	SYMBOL/LEGEND-PARTITION DESIGNATIONS-SH.3

V2-0XX ARCHITECTURAL WALL DETAILS

V2-001A	1 OF 1	5	TYPICAL ONE HOUR FIRE RATED WALL(WOOD STUDS)
V2-001B	1 OF 1	3	TYPICAL TWO HOUR FIRE RATED WALL(WOOD STUDS)
V2-002A	1 OF 1	5	TYPICAL ONE HOUR FIRE RATED WALL(METAL STUDS)
V2-002B	1 OF 1	3	TYPICAL TWO HOUR FIRE RATED WALL(METAL STUDS)
V2-003A	1 OF 1	2	TOP ATTACH/FULL HEIGHT, NON BEARING, FIRE RATED WALLS
V2-004	1 OF 1	2	WOOD-STUD WALL TO ACOUSTICAL CEILING
V2-005	1 OF 1	3	METAL-STUD WALL TO ACOUSTICAL CEILING
V2-006	1 OF 1	2	WOOD-STUD WALL TO SUSPENDED DRYWALL CEILING
V2-007	1 OF 1	2	WOOD-STUD WALL TO JUNCTION OF DRYWALL/ACOUSTICAL CEILING
V2-008	1 OF 1	4	METAL-STUD WALL TO JUNCTION OF DRYWALL/ACOUSTICAL CEILING
V2-009	1 OF 1	3	METAL-STUD WALL TO SUSPENDED DRYWALL CEILING
V2-010	1 OF 1	1	WOOD/METAL WALL FRAMING FOR VESTIBULE (WOOD SHOWN)
V2-011	1 OF 1	1	WALL CORNER GUIDE
V2-012	1 OF 1	2	2-HOUR OR 1-HOUR FIRE-RATED COLUMN PROTECTION
V2-013	1 OF 1	2	SECURITY MESH SCREEN FROM TOP OF DRYWALL TO UNDERSIDE OF ROOF
V2-015	1 OF 1	2	DRYWALL EXPANSION JOINT AT CONCRETE OR MASONRY WALL
V2-017	1 OF 1	3	WALL FURRING FOR SOUND-RATED WALLS ON EXISTING WALLS
V2-017A	1 OF 1	3	WALL FURRING FOR SOUND-RATED WALLS WITH EXPANDED METAL MESH
V2-017B	1 OF 1	3	WALL FURRING FOR SOUND-RATED WALLS WITH SHEET METAL
V2-020	1 OF 1	1	WALL FURRING FOR CONCRETE OR MASONRY WALLS

LOCKHEED MARTIN
SPACE SYSTEMS



V2b-IND

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FACILITY OPERATIONS & SERVICES

DRAWN D.KAEINI

8/5/2014

DWG TITLE: V2-INDEX-ENGINEERING CONSTRUCTION DETAILS

CHECKED M.DOOLEY

ALL FACILITIES

APPROVED M.DOOLEY

SCALE: NONE

CAD. ID. V2b-IND-1.dwg

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ENGINEERING CONSTRUCTION DETAILS

DWG. NO.	SHEET NO.	REV.	DRAWING TITLE
V2-0XX	ARCHITECTURAL	WALL DETAILS (CONTINUED)	
V2-024	1 OF 1	2	SECURITY ACOUSTIC WALL CONSTRUCTION-SOUND GROUP "4"
V2-025	1 OF 1	4	FLUTED DECK/WALL INTERCEPTION

V2-000X	STRUCTURAL	WALL DETAILS	
V2-050	1 OF 1	2	PIPE COLUMN ANCHOR FOR 8 FT. HIGH FREE-STANDING DRYWALL ON MEZZ FLR
V2-050A	1 OF 1	0	PIPE COLUMN ANCHOR FOR 8 FT. HIGH FREE-STANDING DRYWALL ON G.F.
V2-050B	1 OF 1	0	PIPE COLUMN ANCHOR FOR 12 FT. HIGH FREE-STANDING DRYWALL ON G.F.
V2-051	1 OF 1	2	LATERAL SUPPORT FOR CEILING HIGH PARTITION-1(POURED-GYPSUM-DECK WITH STEEL FRAMING)
V2-051A	1 OF 1	3	LATERAL SUPPORT FOR CEILING HIGH PARTITION-1(DETAILS) (POURED-GYPSUM DECK WITH STEEL FRAMING)
V2-052	1 OF 1	2	LATERAL SUPPORT FOR CEILING HIGH PARTITION-2(METAL DECK WITH STEEL FRAMING)
V2-052A	1 OF 1	3	LATERAL SUPPORT FOR CEILING HIGH PARTITION-2(DETAILS) (METAL DECK WITH STEEL FRAMING)
V2-053	1 OF 1	1	LATERAL SUPPORT FOR CEILING HIGH PARTITION-3(WOOD ROOF FRAMING)
V2-053A	1 OF 1	3	LATERAL SUPPORT FOR CEILING HIGH PARTITION-3(DETAILS) (WOOD ROOF FRAMING)
V2-054	1 OF 1	2	TYPICAL DETAILS FOR WALL EXTENDED FROM CEILING TO ROOF-1 (POURED-GYPSUM-DECK WITH STEEL FRAMING)
V2-055	1 OF 1	2	TYPICAL DETAILS FOR WALL EXTENDED FROM CEILING TO ROOF-2 (METAL DECK WITH STEEL FRAMING)
V2-056	1 OF 1	2	TYPICAL DETAILS FOR WALL EXTENDED FROM CEILING TO ROOF-3 (WOOD ROOF FRAMING)
V2-057	1 OF 1	2	EXTENSION OF NON-BEARING WOOD STUD WALL
V2-058	1 OF 1	1	EXTENSION OF METAL STUD WALL
V2-059	1 OF 1	1	WOOD STUD DRYWALL RAILING DETAIL
V2-060	1 OF 1	1	WOOD STUD WALL EXTENDED FROM CEILING TO UNDERSIDE OF ROOF/FLOOR
V2-060A	1 OF 1	2	LATERAL SUPPORT FOR WOOD STUD WALL EXTENSION
V2-061	1 OF 1	0	NEW 4'X7' OR 3'X7' DOOR OPENING IN (E) CONCRETE WALL

V2-1XX	ARCHITECTURAL	DOOR FRAME DETAILS	
V2-102	1 OF 1	2	HEAD AND JAMB FOR METAL DOOR FRAME IN WOOD STUD WALL
V2-102A	1 OF 1	3	HEAD AND JAMB FOR METAL DOOR FRAME(FLUSHED WITH FACE OF WOOD STUD)
V2-108	1 OF 1	1	HEAD AND JAMB FOR METAL DOOR FRAME IN MASONRY WALL
V2-109	1 OF 1	1	HEAD AND JAMB FOR METAL DOOR FRAME IN CONCRETE WALL

V2-15X	STRUCTURAL	DOOR FRAMES	
V2-150	1 OF 1	3	45DB OR 50 DB SOUND RETARDANT DOOR SUB-FRAMING (METAL OR WOOD STUD WALLS)
V2-151	1 OF 1	2	WOOD 3x OR 4x STANDARD DOOR FRAMING DETAILS
V2-152	1 OF 1	3	METAL 3x TO 8x STANDARD DOOR FRAMING DETAILS
V2-153	1 OF 1	0	WOOD 4' TO 8' STANDARD DOOR FRAMING DETAILS

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ENGINEERING CONSTRUCTION DETAILS

DWG. NO. SHEET NO. REV. DRAWING TITLE

V2-15X STRUCTURAL DOOR FRAMES

V2-150	1 OF 1	3	45DB OR 50 DB SOUND RETARDANT DOOR SUB-FRAMING (METAL OR WOOD STUD WALLS)
V2-151	1 OF 1	2	WOOD 3x OR 4x STANDARD DOOR FRAMING DETAILS
V2-151A	1 OF 1	1	DELETED
V2-152	1 OF 1	3	METAL 3x TO 8x STANDARD DOOR FRAMING DETAILS
V2-152A	1 OF 1	1	DELETED
V2-153	1 OF 1	0	WOOD 4' TO 8' STANDARD DOOR FRAMING DETAILS

V2-2XX DOOR TYPES AND DETAILS

V2-200	1 OF 1	2	WOOD DOOR TYPES
V2-201	1 OF 1	2	METAL DOOR TYPES
V2-202	1 OF 1	2	FIRE RATED DOOR W/FIXED GLASS WINDOW LITE WOOD OR METAL DOOR (36" WIDE DOOR)
V2-203	1 OF 1	2	FIRE RATED DOOR W/FIXED GLASS WINDOW LITE WOOD OR METAL DOOR (48" WIDE DOOR)
V2-204	1 OF 1	1	DOOR SYMBOL & FRAME TYPES
V2-205	1 OF 1	1	DOOR THRESHOLD AND WEATHER STRIP/WOOD OR METAL DOORS
V2-206	1 OF 1	1	DOOR THRESHOLD AND BOTTOM PROTECTION/WOOD OR METAL DOORS
V2-207	1 OF 1	1	THRESHOLD AND SEAL FOR SPECIAL PROGRAM DOORS
V2-208	1 OF 1	1	SPECIAL PROGRAM DOOR/HEAD AND JAMB SEALS
V2-212	1 OF 1	1	SMOKE SEAL SELF ADHESIVE DOOR GASKET APPLICATIONS
V2-213	1 OF 1	1	ASTRAGAL WITH SEAL FOR FIRE-RATED DOUBLE DOORS

V2-3XX WINDOW DETAILS

V2-300	1 OF 1	1	WOOD FRAMED FIXED GLASS WINDOW IN WOOD OR METAL STUD WALL
V2-301	1 OF 1	1	ONE HOUR FIRE RATED FIXED GLASS WINDOW IN WOOD
V2-302	1 OF 1	1	METAL FRAMED FIXED GLASS WINDOW IN WOOD OR METAL STUD WALL
V2-303	1 OF 1	1	SLIDING WINDOW W/SHELF IN WOOD OR METAL STUD WALL
V2-304	1 OF 1	2	METAL FRAMED FIXED GLASS WINDOW FLUSHED WITH FACE OF WALL

V2-4XX ARCHITECTURAL FRAMED OPENING DETAILS

V2-400	1 OF 1	2	FRAMED OPENING/HEAD CONDITION IN METAL STUD WALL
V2-401	1 OF 1	1	DELETED
V2-402	1 OF 1	1	DELETED
V2-407	1 OF 1	1	HEAD DETAIL/DRYWALL FINISH (JAMB SIMILIAR)
V2-408	1 OF 1	1	HEAD AND JAMB/METAL FRAME IN MASONRY WALL OPENING
V2-409	1 OF 1	1	HEAD AND JAMB/METAL FRAME IN CONCRETE WASS OPENING

V2-5XX STAIR AND LADDER DETAILS

V2-500	1 OF 1	1	WOOD STAIRS WITH SAFETY-TYPE TREAD NOSING
V2-501	1 OF 1	2	STEEL STAIRS WITH SAFETY-TYPE TREAD NOSING
V2-502	1 OF 1	2	METAL PAN STAIRS WITH SAFETY-TYPE TREAD NOSING
V2-503	1 OF 1	2	METAL GRATING STEEL STAIRS WITH SAFETY-TYPE TREAD NOSING
V2-504	1 OF 1	0	STAIR BOTTOM DETAILS AT CONCRETE
V2-505	1 OF 1	2	STANDARD LADDER DETAILS
V2-510	1 OF 1	0	HANDRAIL EXTENSION DETAIL

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ENGINEERING CONSTRUCTION DETAILS

DWG. NO. SHEET NO. REV. DRAWING TITLE

V2-6XX ROOF DETAILS

V2-603	1 OF 1	0	INSULATED PIPE ROOF PENETRATION FLASHING
V2-617	1 OF 1	2	ROOF PATCH DETAIL-WOOD ROOF STRUCTURE
V2-618	1 OF 1	2	ROOF PATCH DETAIL-WOOD STEEL STRUCTURE
V2-624	1 OF 1	0	ROOF COATING AT RIDGE & EAVE
V2-625	1 OF 1	0	ROOF COATING AT HEADWALL & RAKE
V2-626	1 OF 1	0	ROOF COATING AT VALLEY
V2-627	1 OF 1	0	ROOF COATING AT VALLEY GUTTER
V2-628	1 OF 2	0	ROOF COATING AT CURB
V2-628	2 OF 2	0	ROOF COATING AT CURB
V2-629	1 OF 1	0	ROOF COATING AT PIPE PENETRATIONS
V2-630	1 OF 1	0	TRANSLUCENT PANEL

V2-7XX MISCELLANEOUS ARCHITECTURAL DETAILS

V2-700	1 OF 1	1	EXTERIOR ROLL UP DOOR (EXTERIOR MOUNT)
V2-700B	1 OF 1	0	DELETED
V2-701	1 OF 1	2	SAFETY BAR DETAIL FOR DOUBLE OR SINGLE DOOR
V2-702	1 OF 1	1	TYPICAL WOOD SERVICE DOOR W/TRANSOM
V2-703	1 OF 1	1	SECURITY/EXIT DOOR SEAL (EYELET SCREW DETAIL)
V2-708	1 OF 1	1	ROOF HATCH SNAP HOOK ASSEMBLY
V2-714	1 OF 1	1	CEILING TILE SECURITY CLIPS
V2-716	1 OF 1	4	CHAIR RAIL
V2-717	1 OF 1	1	SINGLE AND DOUBLE WOOD CHART RAIL
V2-718	1 OF 1	1	DRIP CAP FOR EXTERIOR DOORS
V2-719	1 OF 1	2	RESTROOM STANDARD MOUNTING HEIGHTS-1
V2-720	1 OF 1	2	RESTROOM STANDARD MOUNTING HEIGHTS-2
V2-722	1 OF 1	0	SECURITY CURTAIN DETAIL
V2-722A	1 OF 1	0	BLACK OUT CURTAIN DETAILS
V2-722B	1 OF 1	0	BREAK-OUT EXIT PANEL AT SECURITY CURTAIN
V2-723	1 OF 1	1	ACCESS FLOOR PANEL CUTOUTS AND REGISTERS
V2-724	1 OF 1	0	TELEPHONE PANEL ENCLOSURE

V2-75X MISCELLANEOUS MAINTENANCE DETAILS

V2-750	1 OF 1	1	SECURITY BAR DETAILS-HASP
V2-751	1 OF 1	1	SECURITY BAR HANGER
V2-752	1 OF 1	1	SECURITY BAR-5 DRAWER FILE CABINET
V2-753	1 OF 2	1	SECURITY BAR-2 DOOR SECURITY STORAGE CABINET
V2-753	2 OF 2	1	SECURITY BAR DETAILS-HASP
V2-754	1 OF 1	1	SECURITY BAR-FLAT DRAWER FILE
V2-755	1 OF 1	1	SECURITY BAR-FLAT DRAWER FILE W/OVERHANG
V2-756	1 OF 4	1	TAB CABINETS
V2-756	2 OF 4	1	TAB CABINETS

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NONE

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ENGINEERING CONSTRUCTION DETAILS

DWG. NO. SHEET NO. REV. DRAWING TITLE

V2-75X MISCELLANEOUS MAINTENANCE DETAILS

V2-756	3 OF 4	1	TAB CABINETS
V2-756	4 OF 4	1	TAB CABINETS
V2-760	1 OF 1	1	MAINTENANCE DOLLY
V2-761	1 OF 3	1	CLASSIFIED WASTE BOX-LARGE
V2-761	2 OF 3	1	CLASSIFIED WASTE BOX-LARGE
V2-761	3 OF 3	1	CLASSIFIED WASTE BOX-LARGE
V2-762	1 OF 1	1	WASTE CART-CLASSIFIED
V2-763	1 OF 1	1	TRASH CONTAINER-PORTABLE
V2-764	1 OF 1	0	UMBRELLA LOCK-CROSS SECTION
V2-765	1 OF 1	0	REINFORCEMENT PLATE FOR DOOR CLOSERS ON MINERAL CORE DRS.
V2-766	1 OF 1	0	TIMECARD BOX

V2-8XX MISCELLANEOUS STRUCTURAL DETAILS

V2-800	1 OF 1	5	EXTENDED SUPPORT THRU ROOF FLASHING DETAIL
V2-802	1 OF 1	2	GUY WIRE SUPPORT (INSIDE BUILDING)
V2-803	1 OF 1	1	REMOVABLE GUARD-CHAIN AND POST IN CONCRETE SLAB
V2-804	1 OF 1	3	REMOVABLE GUARD RAIL
V2-806	1 OF 1	1	EMBEDDED SLEEVE FOR REMOVABLE POST
V2-807	1 OF 1	2	TYPICAL DRAFT STOP WITHIN ATTIC SPACE ABOVE T-BAR CEILING
V2-808	1 OF 1	2	HARD-CAPPED CEILING ROOM DETAILS-1
V2-808A	1 OF 1	5	HARD-CAPPED CEILING ROOM DETAILS-2
V2-812	1 OF 1	1	INDUSTRIAL WIRE MESH PARTITION
V2-813	1 OF 1	1	DRILLING OR FASTENING TO PRESTRESSED CONCRETE
V2-840	1 OF 1	5	LATERAL SUPPORT FOR DIRECT HUNG SUSPENDED T-BAR CEILING
V2-841	1 OF 1	4	WIRE HANGER AT EXISTING METAL DECK
V2-842	1 OF 1	5	WIRE HANGER AT NEW ROOF/FLOOR DECK
V2-843	1 OF 1	3	SUPPORT FOR RECESSED FLUORESCENT LUMINAIRE
V2-850	1 OF 1	1	ACCESS FLOOR PEDESTAL BASE PLAN
V2-851	1 OF 1	1	BOLT CONNECTIONS FOR ACCESS FLOOR PEDESTALS
V2-851A	1 OF 1	1	ACCESS FLOOR PEDESTAL CONNECTION THROUGH RF PLATE
V2-851B	1 OF 1	1	ACCESS FLOOR PEDESTAL CONNECTION THROUGH COMPOSITE RF PANEL
V2-851C	1 OF 1	1	EXPANSION BOLT CONNECTION THROUGH RF PLATE
V2-851D	1 OF 1	1	EXPANSION BOLT CONNECTION THROUGH COMPOSITE RF PANEL
V2-852	1 OF 1	2	EQUIPMENT TIE-DOWN TO ACCESS FLOOR
V2-853	1 OF 1	2	EQUIPMENT TIE-DOWN TO CONCRETE FLOOR THRU ACCESS FLOOR PANELS-1
V2-854	1 OF 1	2	EQUIPMENT TIE-DOWN TO CONCRETE FLOOR THRU ACCESS FLOOR PANELS-2
V2-855A	1 OF 1	1	RAISED FLOOR PENETRATION GUARDS
V2-856	1 OF 1	2	RACK-GAS BOTTLE TO WALL
V2-857	1 OF 1	0	TYPICAL NON-SHEAR/WALL/FOOTING INTERSECTION DETAILS
V2-858	1 OF 1	0	SLAB-ON-GRADE TRENCH & DEPRESSION DETAILS
V2-859	1 OF 1	0	SLAB CONSTRUCTION & CONTROL JOINT DETAILS
V2-860	1 OF 1	0	STEPPED FOOTING AND STEPS ON GRADE
V2-861	1 OF 1	0	PEDESTAL FOR MINOR POSTS & LIGHT COLUMNS
V2-862	1 OF 1	0	TRENCH WITH CHECKERED PLATE COVER IN CONCRETE FLOOR
V2-863	1 OF 1	0	TRENCH WITH H.D. STEEL COVER IN CONC. FLOOR FOR TRUCK LOAD
V2-864	1 OF 1	0	HANDRAIL CONNECTION DETAIL (BOLTED)
V2-865	1 OF 1	0	HANDRAIL CONNECTION TO BACK OF CHANNEL (REMOVABLE)
V2-866	1 OF 1	0	HANDRAIL CONNECTION TO DETAIL (WELDED)
V2-867	1 OF 1	0	CHECKERED PLATE MISCELLANEOUS DETAIL
V2-868	1 OF 1	0	BASE PLATE FOR EQUAL LEG ANGLE POST

LOCKHEED MARTIN
SPACE SYSTEMS



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NONE

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<u>V2-9XX</u>	<u>INTERIOR SIGNAGE</u>		
V2-903	1 OF 1	2	FIRE EXTINGUISHER PLAQUE
V2-910	1 OF 1	2	BUILDING MAP/EVACUATION PLAN HOLDER
V2-911	1 OF 1	2	TITLE 24 RESTROOM PLAQUE
V2-911A	1 OF 1	3	ADA RESTROOM PLAQUE
V2-914	1 OF 1	1	SIGN FOR GAS CYLINDERS
V2-915	1 OF 1	1	ALPHA-NUMERIC COLUMN INDICATORS-1
V2-916	1 OF 1	1	ALPHA-NUMERIC COLUMN INDICATORS-2
V2-917	1 OF 1	1	ALPHA-NUMERIC COLUMN INDICATORS-3
V2-926	1 OF 1	2	MAXIMUM FLOOR LOADING PLAQUE
V2-927	1 OF 1	2	VARIOUS DOOR PLAQUES
V2-938	1 OF 1	0	TOOL HOLDER, RAISED FLOOR PULLER
<u>V2-95X</u>	<u>EXTERIOR SIGNAGE</u>		
V2-951	1 OF 1	2	DELETED
V2-951A	1 OF 1	1	DELETED
V2-952	1 OF 1	2	DELETED
V2-954	1 OF 1	1	POST & PANEL SIGN FOUNDATION (PALO ALTO ONLY)
V2-955	1 OF 1	2	HANDICAPPED PARKING REQUIREMENTS
V2-955A	1 OF 1	0	HANDICAP PARKING TOWAWAY SIGN
V2-956	1 OF 1	1	EMERGENCY ASSEMBLY AREA SIGN
V2-958	1 OF 1	1	BUILDING NUMBER LOGO-EXTERIOR SIGN

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ENGINEERING CONSTRUCTION DETAILS

DWG. NO. SHEET NO. REV. DRAWING TITLE

V2-1XXX CABINET SHELF AND RACK BRACING

V2-1000	1 OF 1	0	SPECIFICATIONS FOR ANCHORING CABINETS, SHELVES AND RACKS
V2-1001	1 OF 1	0	CABINETS – SINGLE ROW FAR FROM WALL
V2-1002	1 OF 1	0	CABINETS – DOUBLE ROW
V2-1003	1 OF 1	0	CABINETS – CLOSE TO INACCESSIBLE WALL
V2-1004	1 OF 1	0	CABINETS – ATTACHED TO THE METAL OR WOOD STUD WALL
V2-1005	1 OF 1	0	CABINETS – ATTACHED TO THE CONCRETE WALL
V2-1006	1 OF 1	0	CABINETS – MAXIMUM TO METAL OR WOOD STUD WALL WITH DISTANCE
V2-1007	1 OF 1	0	CABINETS – MAXIMUM TO CONCRETE WALL WITH DISTANCE
V2-1008	1 OF 1	0	DETAIL FOR CABINETS – JOINT W/BOLT – TOP & BOTTOM
V2-1009	1 OF 1	0	DETAIL FOR CABINETS – JOINT W/BOLTS & PLATE – TOP
V2-1010	1 OF 1	0	DETAIL FOR CABINETS – JOINT W/SELF SCREWS & PLATE – TOP
V2-1011	1 OF 1	0	DETAIL FOR CABINETS – ANCHOR ON GROUND FLOOR
V2-1012	1 OF 1	0	DETAIL FOR CABINETS – ANCHOR ON MEZZ/UPPER FLOOR
V2-1013	1 OF 1	0	DETAIL FOR CABINETS – ANCHOR ON GRATING
V2-1014	1 OF 1	0	DETAIL FOR CABINETS – ANCHOR ON GROUND FL. (INACCESSIBLE PLACE)
V2-1015	1 OF 1	0	DETAIL FOR CABINETS – ANCHOR ON MEZZ/UPPER FL (INACCESSIBLE PLACE)
V2-1016	1 OF 1	0	DETAIL FOR CABINETS – SHORT ANCHOR IN WOOD STUD
V2-1017	1 OF 1	0	DETAIL FOR CABINETS – LONG ANCHOR IN WOOD STUD
V2-1018	1 OF 1	0	DETAIL FOR CABINETS – LONG ANCHOR IN CONCRETE WALL
V2-1019	1 OF 1	0	DETAIL FOR CABINETS W/BASE – ANCHOR ON GROUND FLOOR
V2-1020	1 OF 1	0	DETAIL FOR CABINETS W/BASE – ANCHOR ON MEZZ/UPPER FLOOR
V2-1021	1 OF 1	0	DETAIL FOR CABINETS W/BASE – ANCHOR ON GRATING
V2-1022	1 OF 1	1	DETAIL FOR CABINETS – SHORT ANCHOR IN METAL STUD
V2-1023	1 OF 1	1	DETAIL FOR CABINETS – LONG ANCHOR IN METAL STUD
V2-1024	1 OF 1	0	SHELVES – SINGLE AND DOUBLE ROW
V2-1025	1 OF 1	0	DETAIL FOR SHELVES – ANCHOR ON GROUND FLOOR
V2-1026	1 OF 1	0	DETAIL FOR SHELVES – ANCHOR ON MEZZ/UPPER FLOOR (CONCRETE ON METAL DECK)
V2-1027	1 OF 1	0	DETAIL FOR SHELVES – ANCHOR ON MEZZ/UPPER FLOOR (PLYWOOD ON METAL DECK)
V2-1028	1 OF 1	0	DETAIL FOR SHELVES – ANCHOR ON GRATING
V2-1029	1 OF 1	1	DETAIL FOR SHELVES – JOINT BACK TO BACK W/BOLTS
V2-1030	1 OF 1	0	DETAIL FOR SHELVES – DOUBLE ROW–LONGITUDINAL BRACING
V2-1031	1 OF 1	0	DETAIL FOR SHELVES – SINGLE ROW–LONGITUDINAL BRACING
V2-1032	1 OF 1	0	DETAIL FOR SHELVES – ANCHOR ON MEZZ/UPPER FLOOR (MASONITE ON METAL DECK)
V2-1033	1 OF 1	0	STORAGE RACKS SINGLE ROW ON GROUND FLOOR W/EXISTING BASE PLATES
V2-1034	1 OF 1	0	STORAGE RACKS SINGLE ROW ON GROUND FLOOR W/NEW ANGLES
V2-1035	1 OF 1	0	STORAGE RACKS DOUBLE ROW ON GROUND FLOOR
V2-1036	1 OF 1	0	STORAGE RACKS SINGLE ROW ON MEZZ/UPPER FLOOR
V2-1037	1 OF 1	0	DETAIL FOR STORAGE RACKS – ANCHOR ON GROUND FLOOR W/EXISTING BASE PLATE
V2-1038	1 OF 1	0	DETAIL FOR STORAGE RACKS – ANCHOR ON GROUND FLOOR W/EXISTING BASE CHANNEL
V2-1039	1 OF 1	0	DETAIL FOR STORAGE RACKS – ANCHOR ON GROUND FLOOR W/NEW ANGLE
V2-1040	1 OF 1	0	DETAIL FOR STORAGE RACKS – JOINT W/PLATE & TAPPING SCREWS
V2-1041	1 OF 1	0	DETAIL FOR STORAGE RACKS – ANCHOR ON MEZZ/UPPER FLOOR (CONCRETE)
V2-1042	1 OF 1	0	DETAIL FOR STORAGE RACKS – ANCHOR ON MEZZ/UPPER FLOOR (PLYWOOD OR MASONITE ON METAL DECK)
V2-1043	1 OF 1	0	CANTILEVER RACKS – SINGLE & DOUBLE ARMS
V2-1044	1 OF 1	0	DETAIL FOR CANTILEVER RACKS – ANCHOR ON GROUND FLOOR
V2-1045	1 OF 1	0	DETAIL FOR CANTILEVER RACKS – ARMS END STOP

LOCKHEED MARTIN
SPACE SYSTEMS



V2b-IND

REV.

1

DATE

FACILITY OPERATIONS & SERVICES

DRAWN

D.KAEINI

8/5/2014

DWG TITLE: V2-INDEX-ENGINEERING CONSTRUCTION DETAILS

CHECKED

M.DOOLEY

ALL FACILITIES

APPROVED

M.DOOLEY

SCALE:

NONE

CAD. ID.

V2b-IND-7.dwg

ER NO.

SHT. OF

7
8

AFF	ABOVE FINISH FLOOR	CONC	CONCRETE
AC TILE	ACOUSTICAL TILE	CRSI	CONCRETE REINFORCING STEEL INSTITUTE
ADJ	ADJUSTABLE	CONN	CONNECTION
A/C OR AC	AIR CONDITIONING	CONST	CONSTRUCTION
ALUM	ALUMINUM	CSI	CONSTRUCTION SPECIFICATION INSTITUTE
ACI	AMERICAN CONCRETE INSTITUTE	CONT	CONTINUOUS
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	CONTR	CONTRACTOR
ANSI	AMERICAN NATIONAL STDS INST.	CORR	CORRIDOR OR CORRIGATED
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	CSK	COUNTERSINK
AB	ANCHOR BOLT	CF	CUBIC FEET
∠	ANGLE	CD	CUP DISPENSER
ANOD	ANODIZED		
APPROX OR ≈	APPROXIMATE	DEG OR ?	DEGREE
ASB	ASBESTOS	DET OR DTL	DETAIL
AC	ASPHALTIC CONCRETE	DIAG	DIAGONAL
AFS	AUTOMATIC FIRE SPRINKLER	DIA OR ?	DIAMETER
		DIM	DIMENSION
BM	BEAM	DO OR "	DITTO
BD	BOARD	DF	DOUGLAS FIR
BLK	BLOCK	DWL	DOWEL
BLKG	BLOCKING	DN	DOWN
BOT	BOTTOM	DS	DOWN SPOUT
BOJ	BOTTOM OF JOISTS	DWG	DRAWING
BTU	BRITISH THERMAL UNIT	DF	DRINKING FOUNTAIN
BLDG	BUILDING	DISP	DISPENSER
BU	BUILT-UP		
x	BY		
CAB	CABINET	EA	EACH
CI	CAST IRON	EW	EACH WAY
CB	CATCH BASIN OR CHALKBOARD	E	EAST
CLKG	CAULKING	EP	EDGE OF PAVEMENT
CLG	CEILING	ELEC	ELECTRICAL
CEM	CEMENT	EPB	ELECTRIC PANEL BOARD
CTR	CENTER	EWG	ELECTRIC WATER COOLER
C/L OR	CENTER LINE	EWH	ELECTRIC WATER HEATER
CER	CERAMIC	EL OR ELEV	ELEVATION
CT	CERAMIC TILE	ENS	EMERGENCY NOTIFICATION SYSTEM
□	CHANNEL	EQ	EQUAL
CO	CLEANOUT	EXH	EXHAUST
COTG	CLEAN OUT TO GRADE	EXIST OR (E)	EXISTING
CLR	CLEAR	EXP	EXPANSION
CJ	COLD JOINT	EXT	EXTERIOR
CW	COLD WATER		
COL	COLUMN		
COMP	COMPOSITION		

LOCKHEED MARTIN
SPACE SYSTEMS



V2-000

REV.

3

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN SILVIA SANTOS

08-10-88

DWG TITLE: ABBREVIATIONS

CHECKED

ALL FACILITIES

APPROVED

SCALE: NONE

CAD. ID. V2-000-1.dwg

ER NO.

SHT.
OF 1
4

FL	FLOOR	ID	INSIDE DIAMETER
FDC	FACE OF CONCRETE	INSUL	INSULATION
FDM	FACE OF MASONRY	INT	INTERIOR
FDS	FACE OF STUD	INV	INVERT
FDES	FACILITY DESIGN ENGINEERING SPECIFICATIONS	IPS	IRON PIPE SIZE
FT OR '	FEET		
FIN	FINISH		
FF	FINISH FLOOR		
FO	FINISHED OPENING		
FE	FIRE EXTINGUISHER		
FEC	FIRE EXTINGUISHER CABINET	JT	JOINT
FHC	FIRE HOSE CABINET	JST	JOIST
FH	FIRE HYDRANT OR FLATHEAD	JH	JOIST HANGER
FHWS	FLATHEAD WOOD SCREW	JB	JUNCTION BOX
FD	FLOOR DRAIN		
FS	FLOOR SINK		
	FOOTING	LAV	LAVATORY
FDN	FOUNDATION	LH	LEFT HAND
		L	LONG OR LENGTH
GALV	GALVANIZE(D)		
GI	GALVANIZED IRON		
GV	GATE VALVE		
GVCB	GATE VALVE IN CONCRETE BOX	MB	MACHINE BOLT
GA	GAUGE	MEZZ	MEZZANINE
GL	GLASS	MS	MACHINE SCREW
GRD	GROUND OR GRADE	MH	MANHOLE
GYP	GYP SUM	MFR	MANUFACTURER
GWB	GYP SUM WALL BOARD	MAT	MATERIAL
GF	GROUND FLOOR	MAX	MAXIMUM
GR	GRADE	MECH	MECHANICAL
		MC	MEDICINE CABINET
		MET OR MTL	METAL
HTD	HANDICAP TOWEL DISPENSER	MIN	MINIMUM
HGR	HANGER	MULL	MULLION
HDWR	HARDWARE		
HDWD	HARDWOOD	NBFU	NATIONAL BOARD OF FIRE UNDERWRITERS
HDR	HEADER		
HTG	HEATING	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
HT	HEIGHT		
H	HIGH OR HEIGHT	NAT	NATURAL
HM	HOLLOW METAL	(N)	NEW
HOR	HORIZONTAL	N	NORTH
HB	HOSE BIB	NIC	NOT IN CONTRACT
HRC	HOSE REEL CABINET	NTS	NOT TO SCALE
HW	HOT WATER	NO OR #	NUMBER
HR	HOUR		

LOCKHEED MARTIN
SPACE SYSTEMS



V2-000

REV.

3

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN SILVIA SANTOS

08-10-88

DWG TITLE: ABBREVIATIONS

CHECKED

ALL FACILITIES

APPROVED

SCALE: NONE

CAD. ID. V2-000-2.dwg

ER NO.

SHT. OF 2 4

OC OR O/C ON CENTER
 OPNG OPENING
 OPP OPPOSITE
 OD OUTSIDE DIAMETER
 OFC OUTSIDE FACE OF CONCRETE
 OFS OUTSIDE FACE OF STUDS
 OH OVAL HEAD

PG PAGE
 PR PAIR
 PNL PANEL
 PB PANIC BAR
 PTN PARTITION
 d PENNY (NAILS)
 PH PHILLIPS HEAD
 PLAS PLASTER
 PL OR P PLATE
 PLY OR PWD PLYWOOD
 P/L PROPERTY LINE
 PA PUBLIC ADDRESS

R OR RAD RADIUS
 RWL RAIN WATER LEADER
 RWD REDWOOD
 REF REFERENCE
 RCP REINFORCED CONCRETE PIPE
 REINF REINFORCED/ING
 (R) REMOVE
 REQD REQUIRED
 RA RETURN AIR
 REV REVISION
 R/W RIGHT OF WAY
 R RISER
 RM ROOM
 RO ROUGH OR ROUGH OPENING
 RD ROUND
 RH ROUND HEAD OR RIGHT HAND

SCHED	SCHEDULE
SECT	SECTION
SS	SERVICE SINK
SHTG	SHEATHING
SHT	SHEET
SM	SHEET METAL
SHVS	SHELVES
SDV	SHUT OFF VALVE
SIM	SIMILAR
SK	SINK
STC	SOUND TRANSMISSION CLASS
S	SOUTH
SPECS	SPECIFICATIONS
SPF	SPRUCE, PINE, FIR
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL OR ST	STEEL
STOR	STORAGE
SD	STORM DRAIN
S4S	SURFACED 4 SIDES
SYM	SYMMETRICAL
TEL	TELEPHONE
THK	THICK
TP	TOILET PAPER
T&G	TONGUE AND GROOVED
TOC	TOP OF CURB
TOS	TOP OF SLAB
T	TREAD
TYP	TYPICAL
UND	UNLESS NOTED OTHERWISE
UR OR U	URINAL
VENT	VENTILATOR
VERT	VERTICAL
VGDF	VERTICAL GRAIN DOUGLAS FIR
VEST	VESTIBULE
VCT	VINYL COMPOSITION TILE
VCP	VITREOUS CLAY PIPE
VOL	VOLUME

LOCKHEED MARTIN SPACE SYSTEMS		V2-000	REV.
			3
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN SILVIA SANTOS	DATE
DWG TITLE: ABBREVIATIONS		CHECKED	
ALL FACILITIES		APPROVED	
SCALE: NTS	CAD. ID. V2-000-3.dwg	ER NO.	SHT. OF 3 4

WAINS	WAINSCOTE
WC	WATER CLOSET
WH	WATER HEATER
WP	WATERPROOFING
WR	WATER RESISTANT
WS	WEATHERSTRIPPING
WWF	WELDED WIRE FABRIC
W	WEST
WF	WIDE FLANGE
W	WIDE OR WIDTH
W/	WITH
W/□	WITHOUT
WD	WOOD
WI	WROUGHT IRON

LOCKHEED MARTIN
SPACE SYSTEMS



V2-000

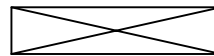
REV.	3
DATE	08-10-88
SHT. OF	4 4

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	SILVIA SANTOS	08-10-88
DWG TITLE: ABBREVIATIONS		CHECKED		
ALL FACILITIES		APPROVED		
SCALE:	NTS	CAD. ID.	V2-000-4.dwg	ER NO.

MATERIAL DESIGNATIONS



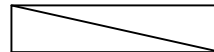
EARTH



ROUGH LUMBER
(THROUGH MEMBER)



CONCRETE



ROUGH LUMBER/SHIM
(INTERRUPTED MEMBER)



GRAVEL



FINISH WOOD



SAND, PLASTER
OR GYPSUM



BATT INSULATION



STEEL



RIGID INSULATION



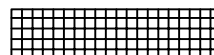
ALUMINUM



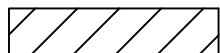
PLYWOOD



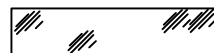
CONCRETE MASONRY



TILE
(SECTION PLAN OR
ELEV.)



BRICK OR MASONRY



GLASS (ELEVATION)

LOCKHEED MARTIN
SPACE SYSTEMS



V2-000A

REV.

1

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN B. LAWRY

4-27-88

DWG TITLE: MATERIAL DESIGNATIONS

CHECKED

APPROVED

SCALE: NOT TO SCALE

CAD. ID. V2-000A.DWG

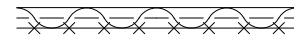
ER NO.

SHT. OF 1

WALL DESIGNATIONS

SYMBOL	TYPE	DESCRIPTION
	A	1 HOUR RATED, GYPSUM WALL BOARD
	B	2 HOUR RATED, GYPSUM WALL BOARD
	C	(SOUND CLASS 3) GYPSUM WALL BOARD TO UNDERSIDE OF STRUCTURE ABOVE
	D	(SOUND CLASS 4) GYPSUM WALL BOARD
	E	NON-RATED GYPSUM WALL BOARD TO UNDERSIDE OF STRUCTURE ABOVE
	F	GYPSUM WALL BOARD TERMINATING ABOVE CEILING
	G	GYPSUM WALL BOARD TO UNDERSIDE OF CEILING
	H	GYPSUM WALL BOARD WITH 9 GA. EXPANDED METAL ON SIDE SHOWN,
	J	GYPSUM WALL BOARD WITH SHEET METAL ON SIDE SHOWN,
	K	CONCRETE WALL
	L	CONCRETE MASONRY WALL
	M	BRICK MASONRY WALL
	N	FABRIC SECURITY CURTAIN
	P	FOLDING (ACCORDION) CURTAIN
	Q	WOVEN WIRE PARTITION
	R	MODULAR SYSTEM WALL
		WALL/PARTITION TO BE REMOVED

NOTE:
COMBINE WALL TYPES AS REQUIRED
EXAMPLE:



(SOUND CLASS 3) 1 HOUR RATED WITH
9 GA. EXPANDED METAL
TO UNDERSIDE OF STRUCTURE.

LOCKHEED MARTIN
SPACE SYSTEMS



V2-000B

REV.

5

DATE

FACILITY OPERATIONS & SERVICES

DRAWN D.KAEINI

8/5/2014

DWG TITLE: WALL DESIGNATIONS

CHECKED M.DOOLEY

8/11/2014

APPROVED M.DOOLEY

8/11/2014

SCALE: NOT TO SCALE

CAD. ID. V2-000B1.DWG

ER NO.

SHT. OF 1 2

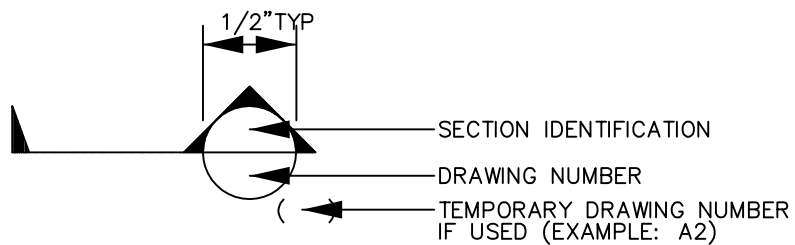
EXAMPLE OF TYPICAL WALL TYPE SCHEDULE
 TO APPEAR ON ALL ARCHITECTURAL FLOOR PLANS
 LOCATE IN "NOTE" SECTION OF DRAWING
 REFER TO SHEET 1 FOR GRAPHIC WALL INDICATIONS AND
 ALPHA WALL DESIGNATIONS.
 REFER TO V2-000C FOR WALL TYPE SYMBOL.

WALL TYPE SCHEDULE

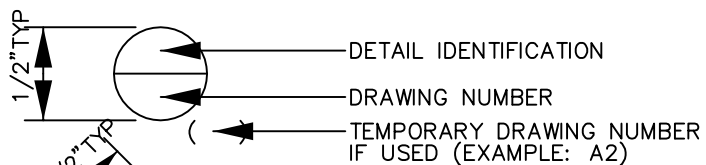
=====	A1	1 HR RATED GYPSUM WALL BOARD ON 6" 24 GA METAL STUDS AT 16" O.C. TO UNDERSIDE OF STRUCTURE PER DET V2-002A REV 4
=====	A2	SAME AS TYPE A1 EXCEPT GYP BD STOPS AT RATED CORRIDOR CEILING PER DETAIL 7/004AM
=====	G1	GYPSUM WALL BOARD ON 2X4 WOOD STUS AT 16" O.C. TO UNDERSIDE SUSPENDED CEILING PER DET V2-005 REV 3
=====	F1	FREESTANDING GYPSUM WALL BOARD ON 3 5/8" 25 GA METAL STUDS AT 16" O.C. HEIGHT NOTED ON PLAN PER DET V2-050A REV 3

LOCKHEED MARTIN SPACE SYSTEMS		V2-000B		REV. 0
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	DOOLEY	DATE 1-16-96
DWG TITLE: WALL DESIGNATIONS		CHECKED		
ALL FACILITIES		APPROVED		
SCALE:	NOT TO SCALE	CAD. ID.	V2-000B2.DWG	ER NO.
				SHT. OF 2 2

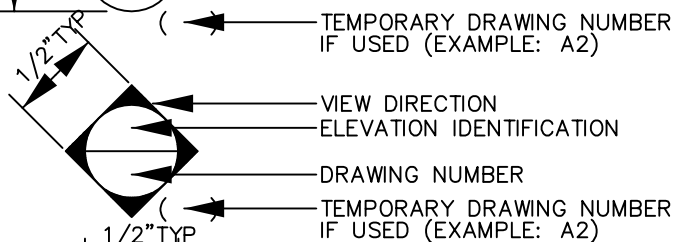
DRAWING SYMBOLS



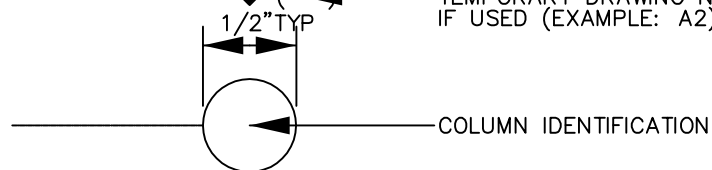
SECTION



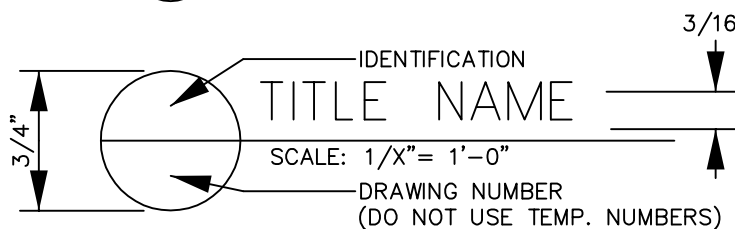
DETAIL



INTERIOR
ELEVATION



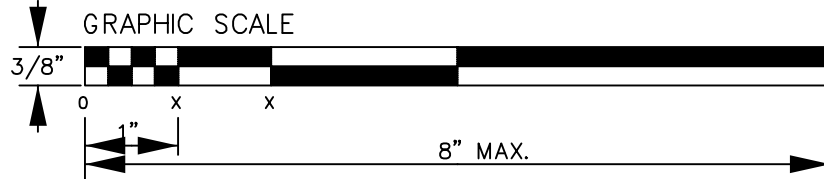
GRID LINE



DRAWING TITLE



ROOM NAME



SCALE

(SHOWN 1/2 SIZE)

LOCKHEED MARTIN
SPACE SYSTEMS



V2-000C

REV.

1

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN B.LAWRY

4-27-88

DWG TITLE: DRAWING SYMBOL DESIGNATION-1

CHECKED

APPROVED

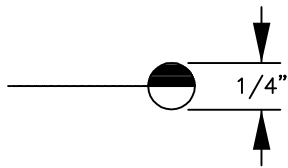
SCALE: 1"=1"

CAD. ID. V2-000C1.DWG

ER NO.

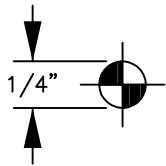
SHT. OF 1 3

DRAWING SYMBOLS



SHADED PORTION IS THE
AREA CONSIDERED

MATCH LINE



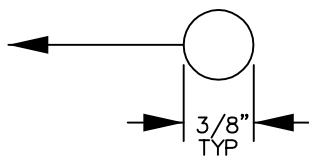
DATUM POINT

DATUM



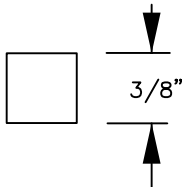
100.00 GRADE ELEVATION
IN PLAN

GRADE POINT



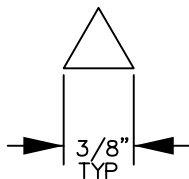
NOTE IDENTIFICATION
(NUMERICAL)

NOTE



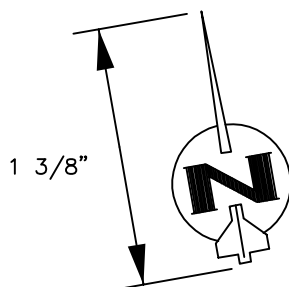
SPECIAL NOTE FOR
EQUIPMENT, ETC.(ALPHA)

NOTE



REVISION IDENTIFICATION

REVISION



NOTE:
TYPICAL MAGNETIC
NORTH IS 14°-52'-20"
OFF VERTICAL.

NORTH ARROW

LOCKHEED MARTIN
SPACE SYSTEMS



V2-000C

REV.

1

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN B.LAWRY

4-27-88

DWG TITLE: DRAWING SYMBOL DESIGNATION-2

CHECKED

APPROVED

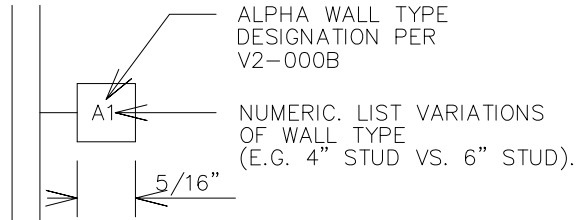
SCALE: 1"=1"

CAD. ID. V2-000C2.DWG

ER NO.

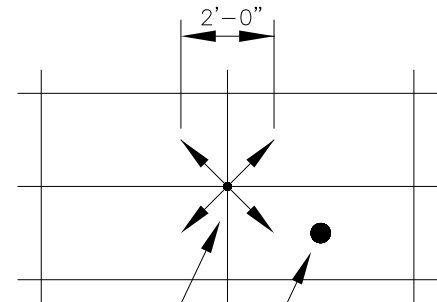
SHT. OF 2/3

DRAWING SYMBOLS



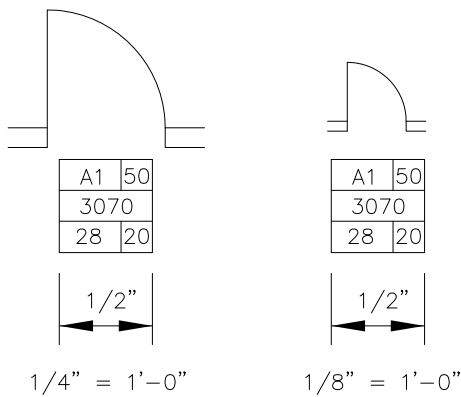
WALL TYPES SHALL APPEAR ON WALL TYPE SCHEDULE ON ALL ARCHITECTURAL FLOOR PLAN DRAWINGS PER V2-000B SHEET 2

WALL TYPE

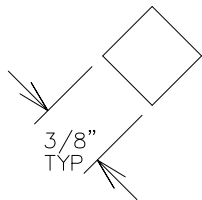


COMPRESSION POST
SPRINKLER HEAD
(5" DIAMETER)

T-BAR CEILING



DOOR REFERENCE V2-204 FOR DETAILS



WINDOW

LOCKHEED MARTIN
MISSILES & SPACE CO.



V2-000C

REV.

4

DATE

FACILITY OPERATIONS 7 SERVICES

DRAWN D.KAEINI

8/5/2014

DWG TITLE: DRAWING SYMBOL DESIGNATION-3

CHECKED M.DOOLEY

8/11/2014

APPROVED M.DOOLEY

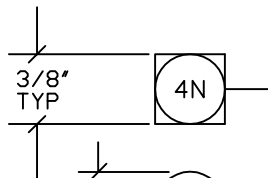
8/11/2014

SCALE: 1"=1"

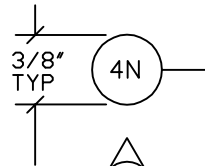
CAD. ID. V2-000C3.DWG

ER NO.

SHT. OF 3

SYMBOLDESCRIPTION

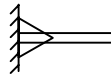
HAWORTH 42" HIGH-1ST CODE = LENGTH
2ND CODE = N/NON-PWR, P/POWER



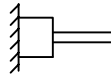
HAWORTH 62" HIGH-1ST CODE = LENGTH
2ND CODE = N/NON-PWR, P/POWER



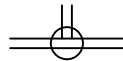
HAWORTH 80" HIGH-1ST CODE = LENGTH
2ND CODE = N/NON-PWR, P/POWER



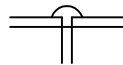
HAWORTH WALL MOUNT KIT
#WMK-X2 "X" = HEIGHT OF PARTITION



HAWORTH TOP FEED MODULE
#TFK-X2 "X" = HEIGHT OF PARTITION



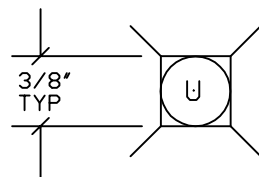
HAWORTH TEE MOUNT KIT
#TMKT-X2 "X" = HEIGHT OF PARTITION



HAWORTH STRAIGHT SPAN CONNECTOR
#PCSS-3



HAWORTH BASE FEED MODULE
X = 1=BFM-1 (HARDWIRED), 2=BFM-2(PLUG-IN)



UNIVERSAL POLE

LOCKHEED MARTIN
SPACE SYSTEMS



V2-000D

REV.

1

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN LARRY GEER

2-14-89

DWG TITLE: SYMBOL/LEGEND-HAWORTH PARTITION NOTE CODES-3

CHECKED

APPROVED

SCALE: NONE

CAD. ID. V2-000D3.DWG

ER NO.

SHT. OF 3

SEE V2-003A

ROOF/FLOOR
STRUCTURE ABOVE

NOTE FOR ONE HOUR FIRE RATED WALL:
SEAL ALL GAPS & PENETRATIONS THRU FIRE
RATED WALLS PER SPECIFICATION
SECTION 07270.

CONSTRUCT ONE HOUR FIRE
RATED WALL (WOOD STUDS)
PER UBC, TABLE 7-B, ITEM 17-1.3.

WOOD STUDS

2X_'S SOLID WOOD BLOCKING
10'-0" O.C. MAX. VERTICALLY

5/8" GYPSUM BOARD
TYPE "X" EACH SIDE

CONTINUOUS 2X_ WOOD SILL
PLATE (TREATED OR REDWOOD)
ANCHORED TO STRUCTURE
@ 48" O.C.

4" RUBBER TOP SET BASE

FINISH FLOOR

2X4 WOOD STUDS AT 24" O.C. UP TO 14'-0" HIGH

2X6 WOOD STUDS AT 24" O.C. FROM 14'-0" UP TO 20'-0" HIGH
(FOR NON-BEARING WALL ONLY)

1/4" EXP. BOLT W/2" EMB.
1/2" EXP. BOLT W/2 1/2" EMB.
1/4" POWER DRIVEN FASTENER W/2" EMB.
FOR USE IN NON-BEARING WALLS UP TO
10'-0" IN HEIGHT.

WALL SECTION

NOTE: THIS DETAIL IS INCOMPLETE WITHOUT V2-003A.

LOCKHEED MARTIN
SPACE SYSTEMS



V2-001A

REV.

5

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN B.PALMON

8-13-96

DWG TITLE: TYPICAL FULL HEIGHT WOOD STUD WALL

CHECKED

ALL FACILITIES

APPROVED

SCALE: 3"=1'-0"

CAD. ID. V2-001A.DWG

ER NO.

SHT. OF 1

SEE V2-003A

ROOF/FLOOR
STRUCTURE ABOVE

NOTES:

ALL PENETRATIONS THRU FIRE RATED WALLS/FLOORS OR CEILINGS SHALL BE SEALED WITH 3M FIRE BARRIER PRODUCTS AS MANUFACTURED BY 3M ELECTRICAL PRODUCTS DIVISION PER SPECIFICATIONS SECTION 07270.

CONSTRUCTION SPECIFICATIONS FOR A ONE HOUR FIRE RATED WALL (WOOD STUDS) ACCORDING TO THE CURRENT ADOPTED UBC EDITION, TABLE 43-B, ITEM #16-1.5'.

WALLBOARD NAILED WITH 6d COOLER OR WALLBOARD NAILS AT 9" ON CENTER WITH END JOINTS ON NAILING MEMBERS, FACE LAYER APPLIED VERTICALLY OR HORIZONTALLY AND NAILED WITH 8d COOLER OR WALLBOARD NAILS AT 7" ON CENTER. FOR NAIL ADHESIVE APPLICATION, FACE LAYERS APPLIED WITH COATING OF APPROVED WALLBOARD ADHESIVE AND NAILED 12" ON CENTER, BASE LAYERS NAILED 6" O.C.

2X_1'S SOLID WOOD BLOCKING 10'-0"O.C. MAX. VERTICALLY

TWO LAYERS OF 5/8" GYPSUM BOARD TYPE "X", EACH SIDE.

CONTINUOUS 2X_1 WOOD SILL PLATE (TREATED OR REDWOOD) ANCHORED TO STRUCTURE @ 48" O.C. MAX.

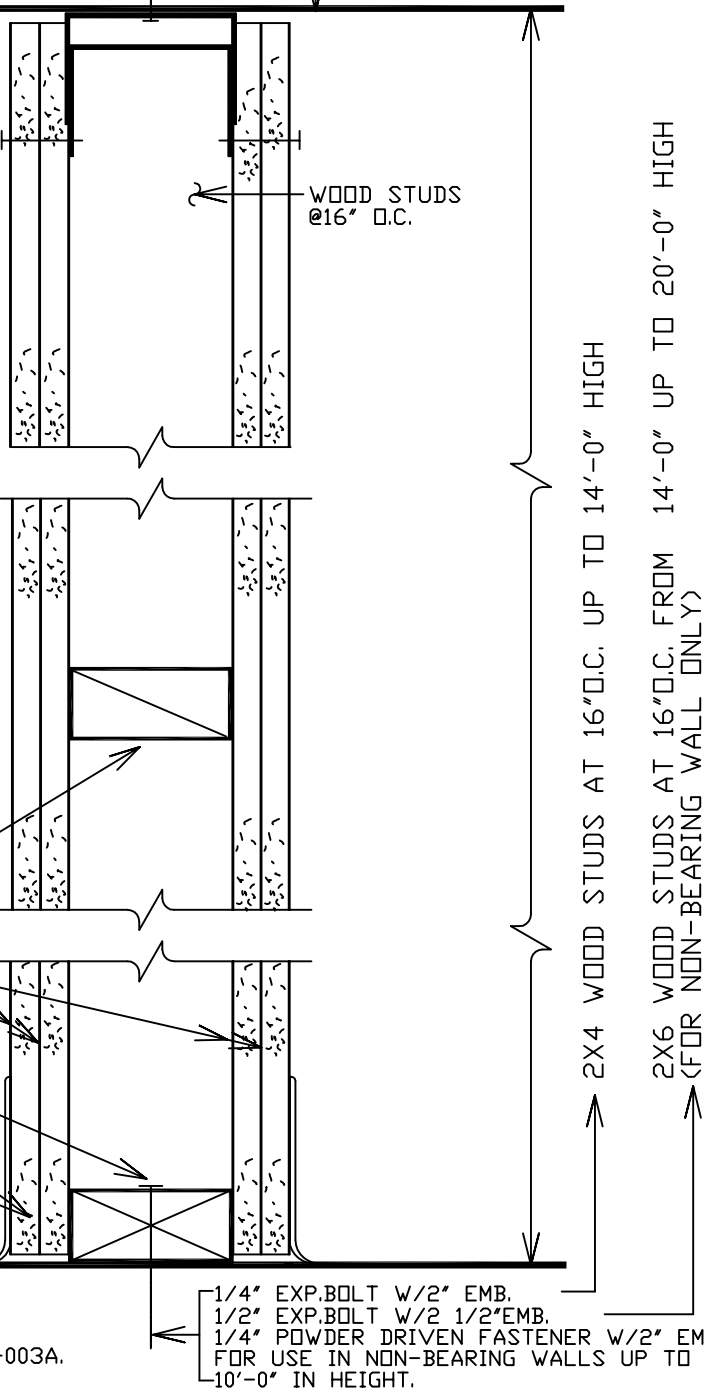
4" RUBBER TOP SET BASE

FINISH FLOOR

WALL SECTION

NOTE: 1. THIS DETAIL IS INCOMPLETE WITHOUT V2-003A.

2. DETAIL NOT FOR USE ON AREA SEPARATION WALLS.



LOCKHEED MARTIN SPACE SYSTEMS		V2-001B	REV.
			3
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN KAEINI	DATE
DWG TITLE: TYPICAL TWO HOUR FIRE RATED WALL(WOOD STUDS)		CHECKED	10/88
ALL FACILITIES		APPROVED	
SCALE: 3"=1'-0"	CAD. ID. V2-001B.DWG	ER NO.	SHT. OF 1

SEE V2-003A

ROOF/FLOOR
STRUCTURE ABOVE

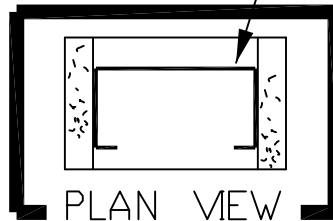
NOTE FOR ONE HOUR FIRE RATED WALL:

SEAL ALL PENETRATIONS THRU FIRE RATED
WALLS PER SPECIFICATION SECTION 07270.
CONSTRUCT ONE HOUR FIRE RATED WALL PER
UBC TABLE 7-B, ITEM 16-1.1.

METAL STUDS
W/STIFFENED FLANGES
(TYP.)

5/8" TYPE "X"
GYPSUM BOARD
EACH SIDE

ALL METAL STUDS SHALL
HAVE STIFFENED FLANGES



PLAN VIEW

CONTINUOUS METAL TRACK
(SAME GAUGE AS METAL STUDS)
ANCHORED TO STRUCTURE AT
48" O.C. MAX.

4" RUBBER TOP
SET BASE

FINISH FLOOR

WALL SECTION

NOTES:

METAL STUD SIZE, GAUGE, TYPE & SPACING SHALL BE
DETERMINED PER CURRENT ICBO REPORT & SHALL BE APPROVED
BY LMMS PRIOR TO INSTALLATION.

ACCEPTABLE METAL STUD MANUFACTURERS:

1. ANGEL'S METAL SYSTEMS
2. WESTERN STEEL FRAMING SYSTEMS
3. AN APPROVED EQUAL BY A LICENSED STRUCTURAL ENGINEER.

MINIMUM DEPTH OF METAL STUDS:

- 3-5/8" STUDS AT 24" O.C. UP TO 15'-0" HIGH.
- 3-5/8" STUDS AT 16" O.C. UP TO 17'-0" HIGH.
- 4" STUDS AT 24" O.C. UP TO 22'-0" HIGH.
- 4" STUDS AT 16" O.C. UP TO 25'-0" HIGH.
- 6" STUDS AT 24" O.C. UP TO 29'-0" HIGH.
- 6" STUDS AT 16" O.C. UP TO 31'-0" HIGH.

USE 1/4" EXP. BOLTS W/2" MIN. EMB. ON
NON-BEARING WALLS UP TO 31'-0" HIGH.
USE 1/4" POWER DRIVEN FASTENERS W/2"
EMB. ON NON-BEARING WALLS UP TO 10'-0"
HIGH.

NOTE: PROVIDE BRIDGING PER MANUFACTURER'S RECOMMENDATION.
THIS DETAIL IS INCOMPLETE WITHOUT V2-003A.

LOCKHEED MARTIN SPACE SYSTEMS		V2-002A		REV.
				5
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	B.PAMLON	DATE
DWG TITLE: TYPICAL FULL HEIGHT METAL STUD WALL		CHECKED		8-13-96
ALL FACILITIES		APPROVED		
SCALE: 3"=1'-0"	CAD. ID. V2-002A.DWG	ER NO.		SHT. OF 1

SEE V2-003A

ROOF/FLOOR
STRUCTURE ABOVE

NOTES:

ALL PENETRATIONS THRU FIRE RATED WALLS/FLOORS OR CEILINGS SHALL BE SEALED WITH 3M FIRE BARRIER PRODUCTS AS MANUFACTURED BY 3M ELECTRICAL PRODUCTS DIVISION PER SPECIFICATIONS SECTION 07270.

CONSTRUCTION SPECIFICATIONS FOR A ONE HOUR FIRE RATED WALL (METAL STUD WALL) ACCORDING TO THE CURRENT ADOPTED UBC EDITION, TABLE 43-B, ITEM 15-1.2.

WALLBOARD APPLIED VERTICALLY ATTACHED WITH 1" LONG NO.6 DRYWALL SCREWS TO EACH STUD. SCREWS ARE 8" O.C. AROUND THE PERIMETER AND 12" O.C. ON THE INTERMEDIATE STUD. SECOND LAYER APPLIED WITH VERTICAL JOINTS OFFSET ONE STUD SPACE FROM FIRST LAYER USING

1-5/8" LONG NO.6 DRYWALL SCREWS SPACED 9" O.C. ALONG VERTICAL JOINTS, 12" O.C. AT INTERMEDIATE STUDS AND 24" ON CENTER ALONG TOP AND BOTTOM RUNNERS.

METAL STUDS
W/STIFFENED FLANGES
(TYP.)

5/8" TYPE "X" GYPSUM BOARD
EACH SIDE, TWO LAYERS

ALL METAL STUDS SHALL
HAVE STIFFENED FLANGES

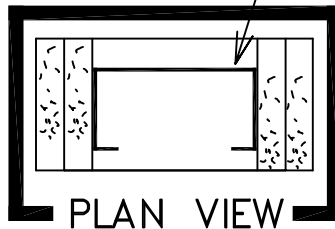
METAL STUD SIZE, GAUGE, TYPE & SPACING SHALL BE
DETERMINED PER CURRENT ICBO REPORT & SHALL BE APPROVED
BY LMSC PRIOR TO INSTALLATION.

ACCEPTABLE METAL STUD MANUFACTURERS:

1. ANGELES METAL SYSTEMS
2. WESTERN STEEL FRAMING SYSTEMS
3. AN APPROVED EQUAL BY A LICENSED STRUCTURAL ENGINEER.

MINIMUM DEPTH OF METAL STUDS:

- 3-5/8" STUDS AT 24" O.C. UP TO 15'-0" HIGH.
- 3-5/8" STUDS AT 16" O.C. UP TO 17'-0" HIGH.
- 4" STUDS AT 24" O.C. UP TO 22'-0" HIGH.
- 4" STUDS AT 16" O.C. UP TO 25'-0" HIGH.
- 6" STUDS AT 24" O.C. UP TO 29'-0" HIGH.
- 6" STUDS AT 16" O.C. UP TO 31'-0" HIGH.



PLAN VIEW

CONTINUOUS METAL TRACK
(SAME GAUGE AS METAL STUDS)
ANCHORED TO STRUCTURE AT
48" O.C. MAX.

4" RUBBER TOP
SET BASE

FINISH FLOOR

NOTES:

USE 1/4" EXP. BOLTS W/2" MIN. EMB. ON
NON-BEARING WALLS UP TO 31'-0" HIGH.
USE 1/4" POWER DRIVEN FASTENERS W/2"
EMB. ON NON-BEARING WALLS UP TO 10'-0"
HIGH.

WALL SECTION

- NOTE: 1. PROVIDE BRIDGING PER MANUFACTURER'S RECOMMENDATION.
2. THIS DETAIL IS INCOMPLETE WITHOUT V2-003A.
3. DETAIL NOT FOR USE ON AREA SEPARATION WALLS.

LOCKHEED MARTIN
SPACE SYSTEMS



V2-002B

REV.

3

DATE

10-88

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN

DWG TITLE: TYPICAL TWO HOUR FIRE RATED WALL-METAL STUDS

CHECKED

ALL FACILITIES

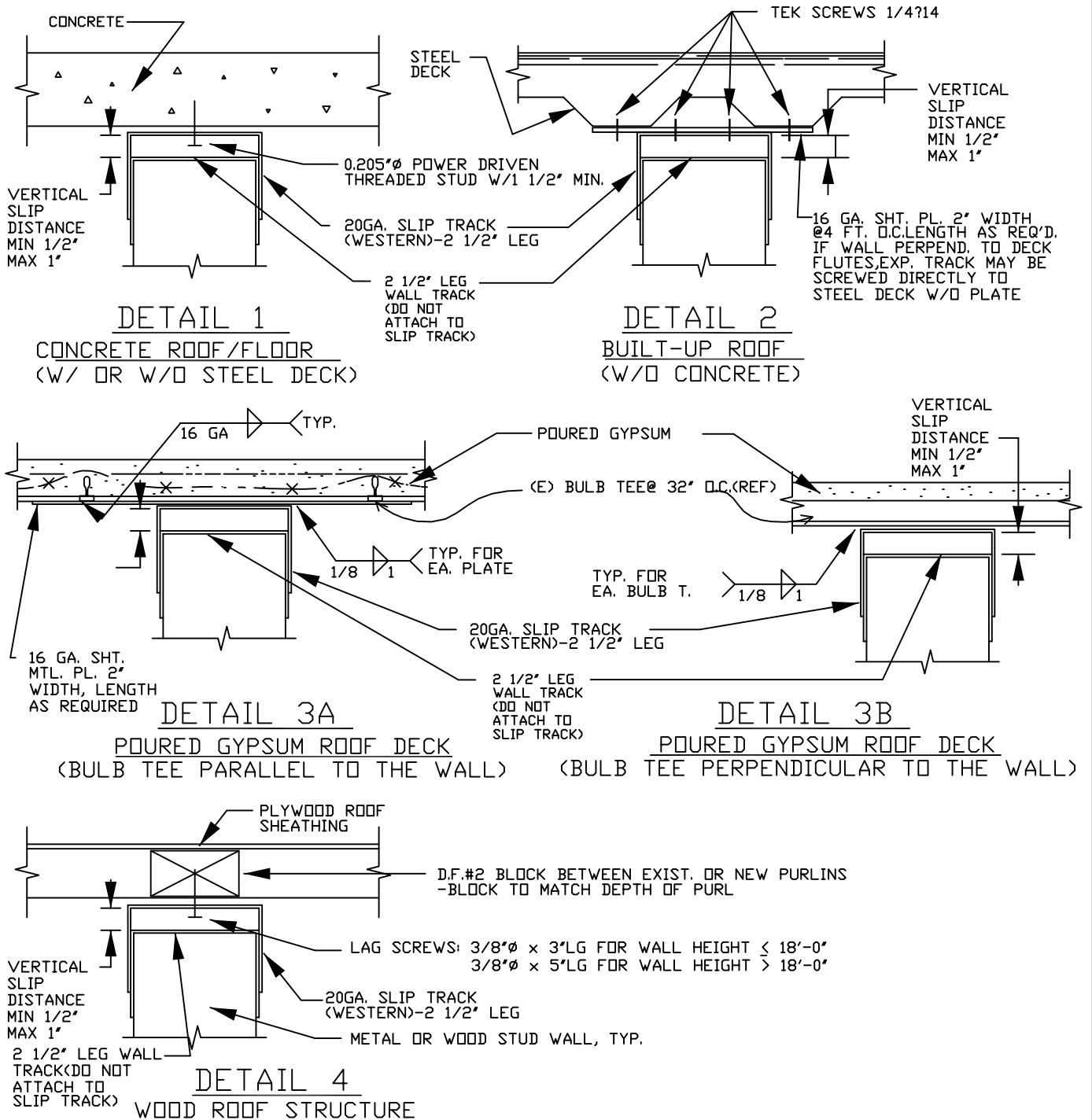
APPROVED

SCALE: 3"=1'-0"

CAD. ID. V2-002B.dwg

ER NO.

SHT. OF 1



- NOTES:**
1. ALL FASTENERS SHALL BE AT 4 FT. O.C. EXCEPT FOR DETAIL 3B.
 2. PROPER LEAD & CLEARANCE HOLES SHALL BE IN PLACE PRIOR TO INSTALLING LAG SCREWS.
 3. THIS SHEET SHALL WORK WITH V2-001A, V2-001B, V2-002A, V2-002B, V2-017, V2-017A, V2-017B, V2-021, V2-021A, V2-021B, V2-022, V2-022A, V2-022B, V2-023, V2-023A, V2-023B, V2-024, V2-024A, V2-024B, V2-025, V2-054, V2-055, V2-056 AND V2-808.

LOCKHEED MARTIN SPACE SYSTEMS		V2-003A	REV.
			2
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN BPALMON	DATE
DWG TITLE: TOP ATTACH./FULL-HEIGHT NON-BEARING WALLS		CHECKED	8-13-96
ALL FACILITIES		APPROVED	
SCALE: NONE	CAD. ID. V2-003A.DWG	ER NO.	SHT. OF 1

ACOUSTICAL SUSPENDED
CEILING/ANCHORED PER SPECS.

* BRACING AT 8'-0" O.C.
MAX. ALTERNATE BRACING
DIRECTION 2X4 (NO.1
D.F.) MAX. LG.=6'-3" OR
SEE V2-051,052, OR
053 FOR OTHER DETAILS

CONTINUOUS 2X_ WOOD TOP
PLATE, SPLICED AT LATERAL
SUPPORTS ONLY. ANCHORED TO
STRUCTURE/BRACING @ 8'-0" O.C.
MAX.

WOOD STUDS
(TYP.)

2X_ WOOD STUD BLOCKING
AT MID HEIGHT, 10'-0" O.C.
MAX. VERTICALLY

5/8" GYPSUM BOARD,
TYPE-"X" EACH SIDE

CONTINUOUS 2X_ WOOD SILL
PLATE (TREATED OR REDWOOD)
ANCHORED TO
STRUCTURE @ 48" O.C. MAX.

4" RUBBER TOP
SET BASE

FINISH FLOOR

2X4 WOOD STUDS AT 24" O.C. UP TO 14'-0" HIGH

2X6 WOOD STUDS AT 24" O.C. FROM 14'-0"
UP TO 20'-0" HIGH

WALL SECTION

* DO NOT USE 2X4 WOOD BRACING IF ATTIC
SPACE IS AN OPEN PLENUM USED FOR HVAC
RETURN AIR SPACE.

1/4" EXP. BOLT W/2" EMB.

1/2" EXP. BOLT W/2 1/2" EMB.
1/4" POWDER DRIVEN FASTENER W/2" EMB.
FOR USE IN NON-BEARING WALLS UP TO
10'-0" IN HEIGHT.

LOCKHEED MARTIN
SPACE SYSTEMS

V2-004

REV.

2

DATE

10/88

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN KAEINI

DWG TITLE: WOOD STUD WALL TO ACOUSTICAL CEILING

CHECKED

ALL FACILITIES

APPROVED

SCALE: 3"=1'-0"

CAD. ID. V2-004.DWG

ER NO.

SHT. OF 1

ACOUSTICAL SUSPENDED
CEILING/ANCHORED
PER SPECS.

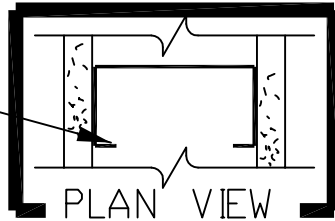
BRACING @ 8' - 0" O.C. MAX.
ALTERNATE BRACING DIRECTION,
SEE V2-051, 052, OR 053 FOR
DETAILS

CONTINUOUS METAL TRACK
TOP PLATE (18 GAUGE),
ANCHORED TO STRUCTURE
/BRACING ABOVE @ 8' - 0" O.C. MAX

MTL. STUDS (TYP.)
W/STIFFENED FLANGES

5/8" GYPSUM BOARD
TYPE 'X' EACH SIDE

ALL METAL STUDS SHALL
HAVE STIFFENED FLANGES
(PLAN VIEW OF STIFFENED
FLANGE STUD)



PLAN VIEW

CONTINUOUS METAL TRACK
(SAME GAUGE AS METAL STUDS)
ANCHORED TO STRUCTURE
48" O.C. MAX.

4" RUBBER TOP
SET BASE

FINISH FLOOR

WALL SECTION

NOTES:

METAL STUD SIZE, GAUGE, TYPE & SPACING SHALL BE DETERMINED PER
CURRENT ICBO REPORT & SHALL BE APPROVED BY LMSC
PRIOR TO INSTALLATION.

ACCEPTABLE METAL STUD MANUFACTURERS:

1. ANGELES METAL SYSTEMS
2. WESTERN STEEL FRAMING SYSTEMS
3. AN APPROVED EQUAL BY A LICENSED STRUCTURAL ENGINEER.

MINIMUM DEPTH OF METAL STUDS:

- | | |
|--------------------------|--------------------|
| 3-5/8" STUDS AT 24" O.C. | UP TO 15'-0" HIGH. |
| 3-5/8" STUDS AT 16" O.C. | UP TO 17'-0" HIGH. |
| 6" STUDS AT 24" O.C. | UP TO 29'-0" HIGH. |
| 6" STUDS AT 16" O.C. | UP TO 31'-0" HIGH. |

USE 1/4" EXP. BOLTS W/2" MIN. EMB. ON
NON-BEARING WALLS UP TO 31'-0" HIGH.
USE 1/4" POWER DRIVEN FASTENERS W/2"
EMB. ON NON-BEARING WALLS UP TO 10'-0"
HIGH.

NOTE: PROVIDE BRIDGING PER MANUFACTURER'S RECOMMENDATION.

LOCKHEED MARTIN
SPACE SYSTEMS



V2-005

REV.

3

DATE

10-88

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN

DWG TITLE: METAL STUD WALL TO ACOUSTICAL CEILING

CHECKED

ALL FACILITIES

APPROVED

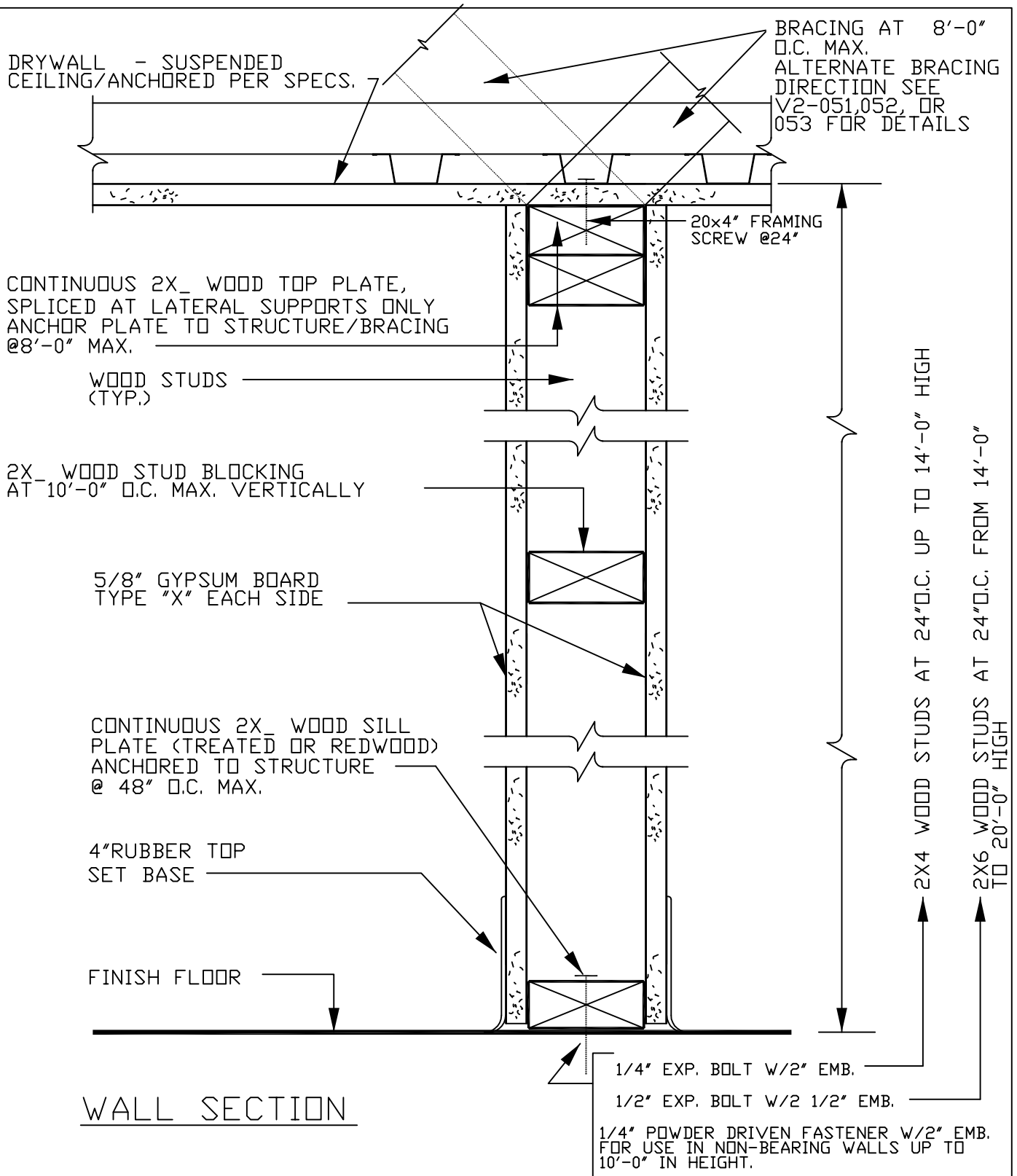
SCALE: 3"=1'-0"

CAD. ID. V2-005.dwg

ER NO.

SHT.
OF

1
1



LOCKHEED MARTIN
SPACE SYSTEMS



V2-006

REV.

2

DATE

10/88

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN

DWG TITLE: WOOD STUD WALL TO SUSPENDED DRYWALL CEILING

CHECKED

ALL FACILITIES

APPROVED

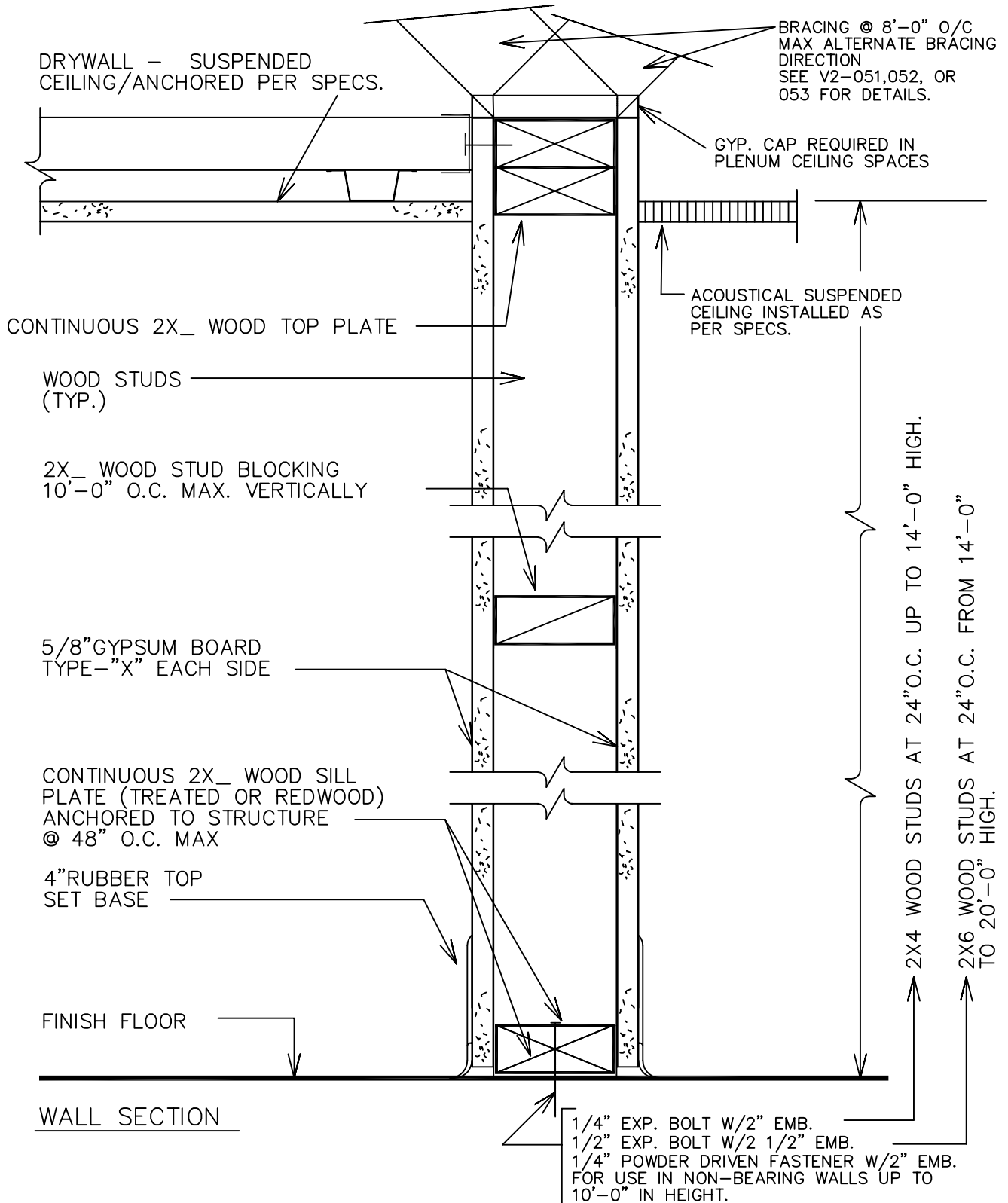
SCALE: 3"=1'-0"

CAD. ID. V2-006.DWG

ER NO.

SHT.
OF

1



LOCKHEED MARTIN
SPACE SYSTEMS



V2-007

REV.

2

DATE

10/88

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN

DWG TITLE: WOOD STUD WALL TO JCT. OF DRYWALL/ACOUSTICAL CEILING

CHECKED

ALL FACILITIES

APPROVED

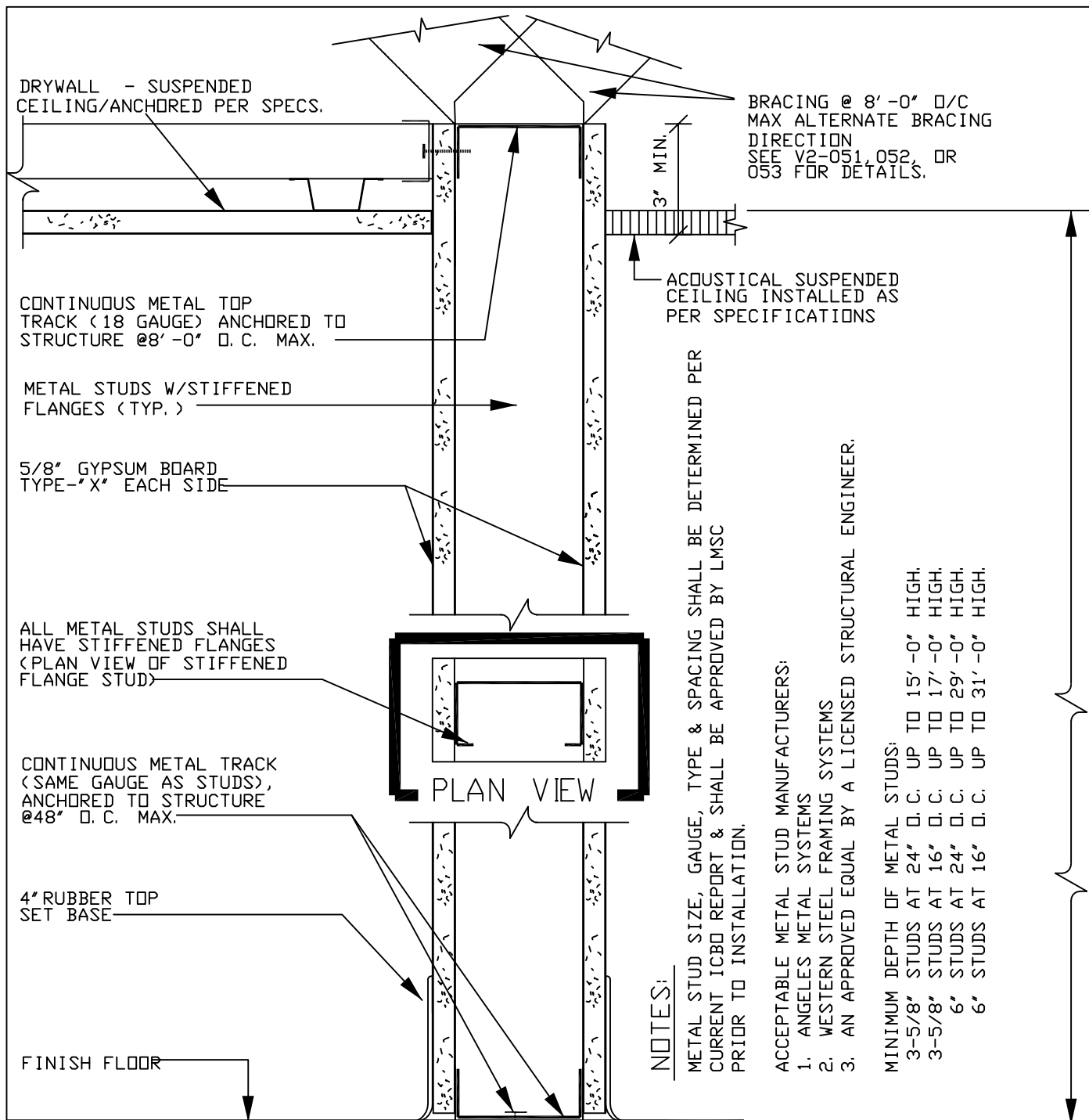
SCALE: 3"=1'-0"

CAD. ID. V2-007.dwg

ER NO.

SHT.
OF

1

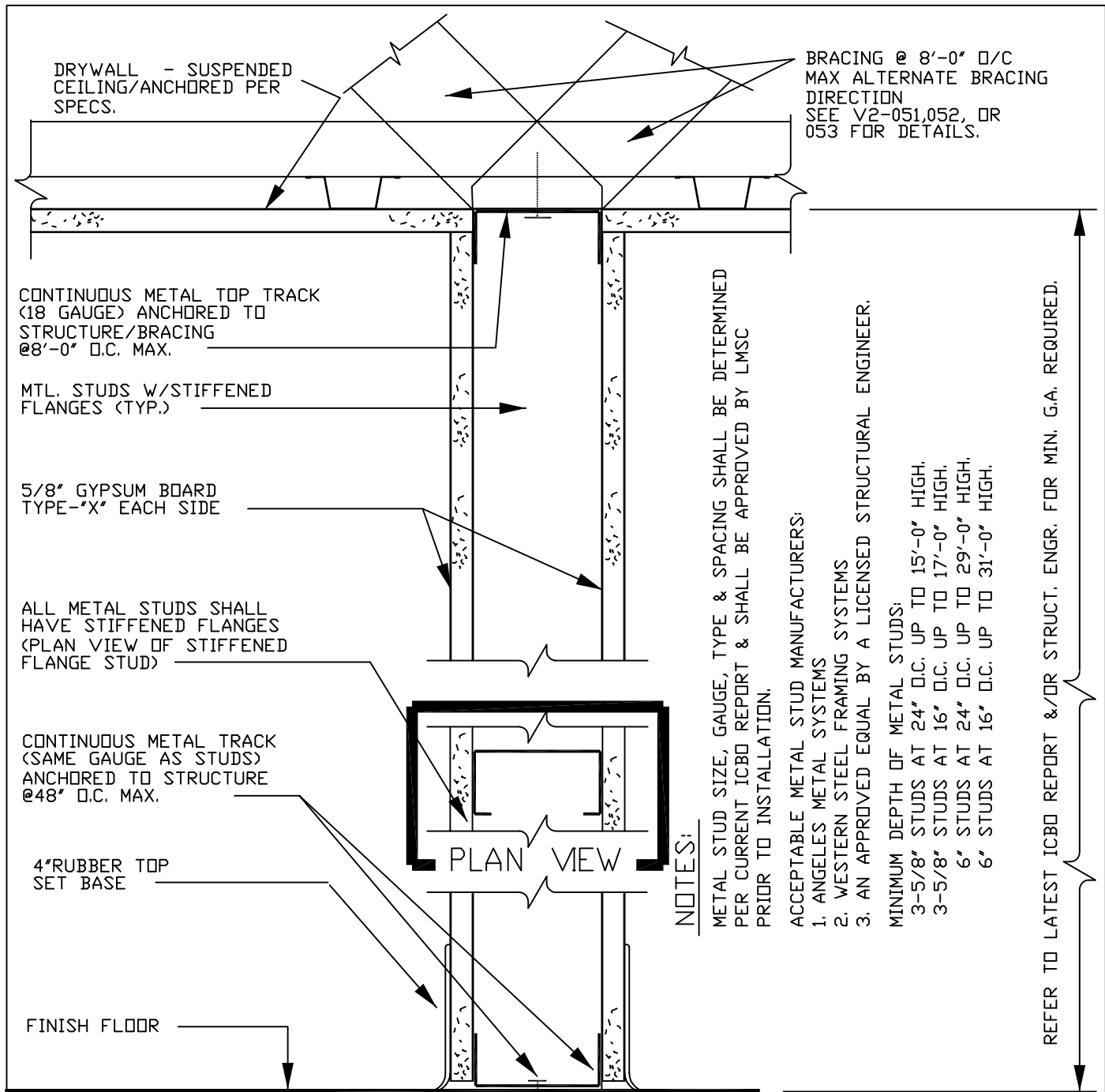


WALL SECTION

USE 1/4" EXP. BOLTS W/2" MIN. EMB. ON
NON-BEARING WALLS UP TO 31'-0" HIGH.
USE 1/4" POWER DRIVEN FASTENERS W/2"
EMB. ON NON-BEARING WALLS UP TO 10'-0"
HIGH.

NOTE: PROVIDE BRIDGING PER MANUFACTURER'S RECOMMENDATION.

LOCKHEED MARTIN SPACE SYSTEMS		V2-008	REV.
			4
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	DATE
DWG TITLE: METAL STUD WALL TO JCT. OF DRYWALL/ACOUSTICAL CEILING		CHECKED	
ALL FACILITIES		APPROVED	
SCALE: 3"=1'-0"	CAD. ID. V2-008.DWG	ER NO.	SHT. OF 1

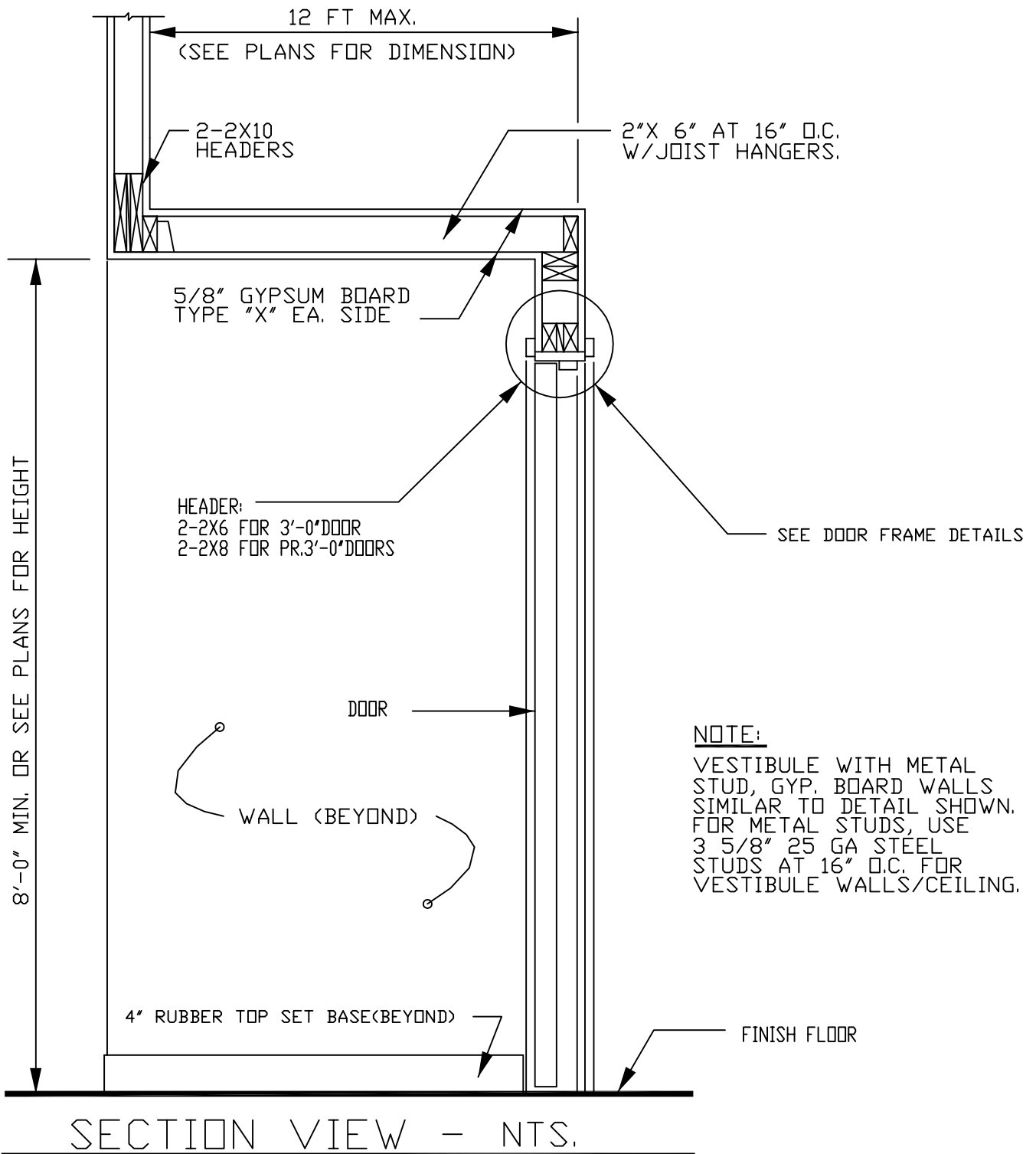


WALL SECTION

USE 1/4" EXP. BOLTS W/2" MIN. EMB. ON
NON-BEARING WALLS UP TO 31'-0" HIGH.
USE 1/4" POWER DRIVEN FASTENERS W/2"
EMB. ON NON-BEARING WALLS UP TO 10'-0"
HIGH.

NOTE: PROVIDE BRIDGING PER MANUFACTURER'S RECOMMENDATION.

LOCKHEED MARTIN SPACE SYSTEMS		V2-009	REV.
			3
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	DATE
DWG TITLE: METAL STUD WALL TO SUSPENDED DRYWALL CEILING		CHECKED	10/88
		APPROVED	
SCALE: 3"=1'-0"	CAD. ID. V2-009.DWG	ER NO.	SHT. OF 1



LOCKHEED MARTIN
SPACE SYSTEMS



V2-010

REV.

1

DATE

01/88

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN

DWG TITLE: WOOD/MTL WALL FRAMING FOR VESTIBULE (WD. SHOWN)

CHECKED

APPROVED

SCALE:

NTS

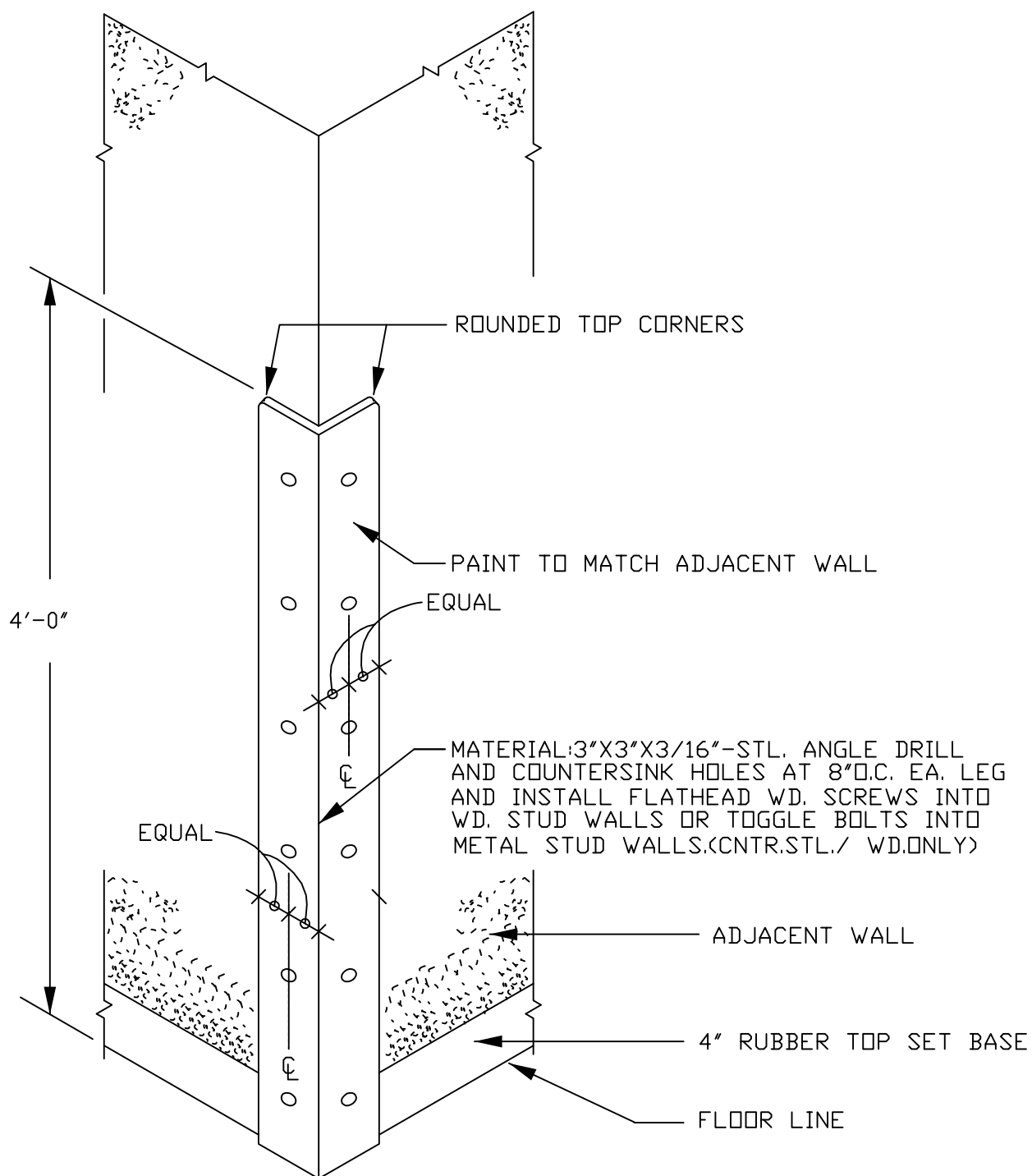
CAD. ID.

V2-010.DWG

ER NO.

SHT.
OF

1
1



ISOMETRIC VIEW - NTS.

LOCKHEED MARTIN SPACE SYSTEMS		V2-011	REV. 1
			DATE 11-87
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	
DWG TITLE: WALL CORNER GUARD		CHECKED	
		APPROVED	
SCALE: NTS	CAD. ID. V2-011.DWG	ER NO.	SHT. OF 1

ROOF/STRUCTURE ABOVE

REFER TO SPECS. FOR
STEEL BEAM FIREPROOFING

4-LAYERS
1/2" GYP. BD.
(2 HOUR CONST.)

2-LAYERS
1/2" GYP. BD.
(1 HOUR CONST.)

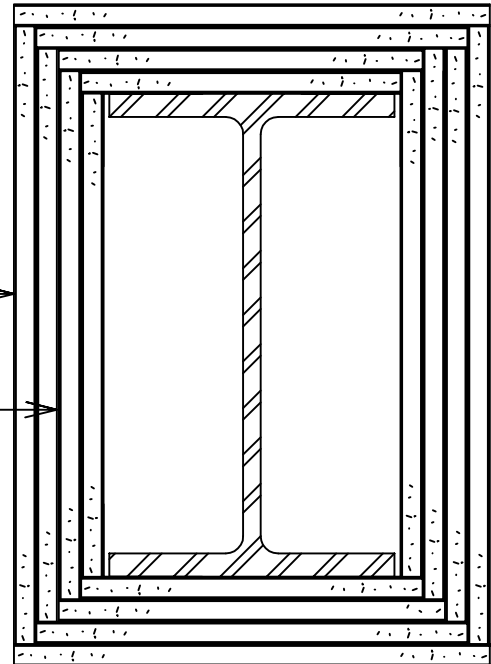
ROOF HIGH

WIDE-FLANGED
COLUMN

DRYWALL FIRE
PROTECTION

MULTIPLE LAYERS OF 1/2" GYPSUM WALLBOARD ADHESIVELY
SECURED TO COLUMN FLANGES AND SUCCESSIVE LAYERS.
WALLBOARD APPLIED WITHOUT HORIZONTAL JOINTS. CORNER
EDGES OF EACH LAYER STAGGERED. WALLBOARD LAYER BELOW OUTER
LAYER SECURED TO COLUMN WITH DOUBLED NO. 18 GAUGE WIRE TIES
SPACED 15' ON CENTER. EXPOSED CORNERS TAPED AND TREATED
(UBC TBL 43-A, ITEM #1-7.1).

FINISH FLOOR



SECTION-A

NTS.

LOCKHEED MARTIN
SPACE SYSTEMS



V2-012

REV.

2

DATE

01/88

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN

DWG TITLE: 2-HR OR 1-HR FIRE-RATED COLUMN PROTECTION

CHECKED

APPROVED

SCALE:

NTS

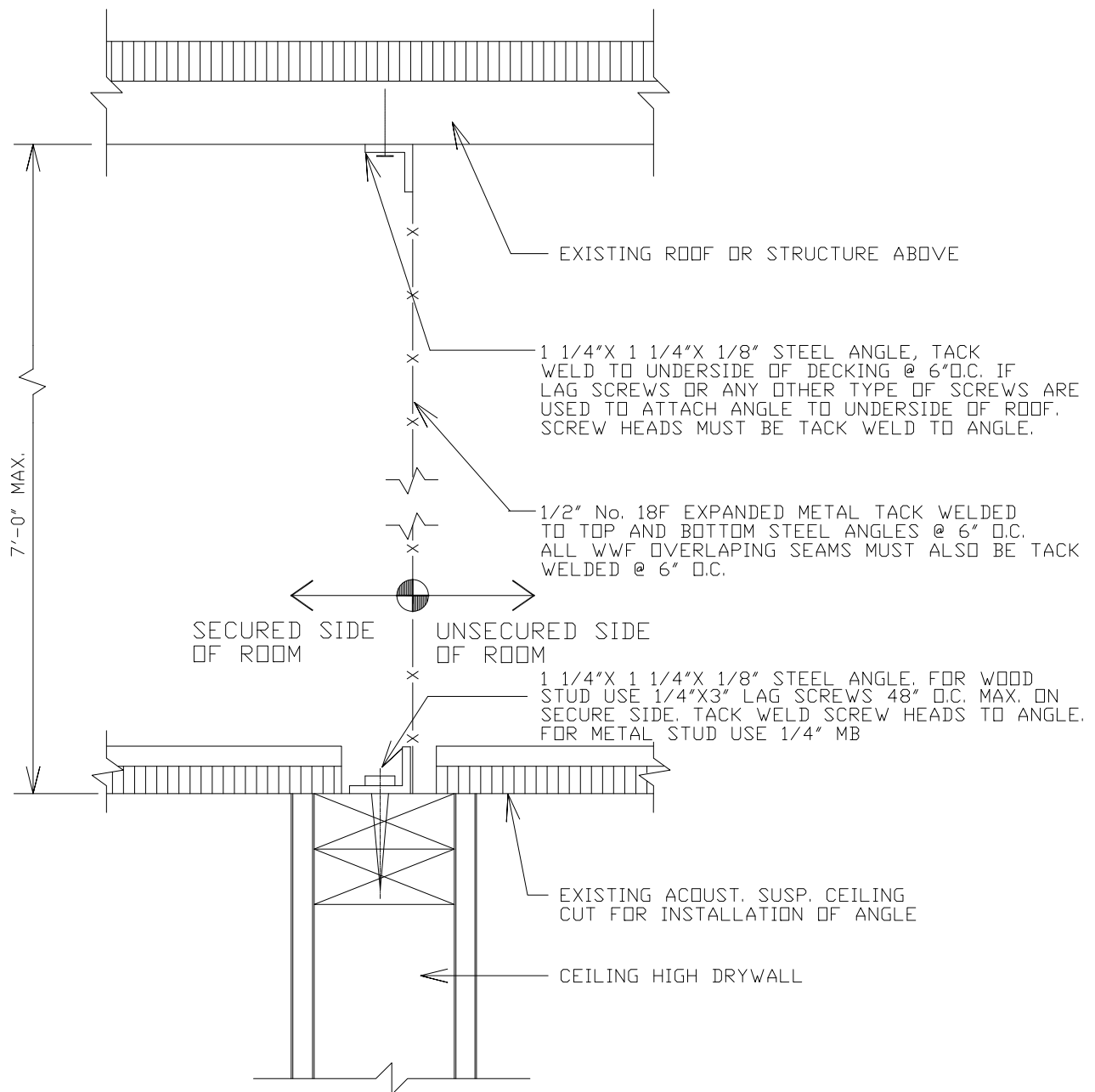
CAD. ID.

V2-012.DWG

ER NO.

SHT.
OF

1
1



SECTION VIEW - 3" = 1'-0"

LOCKHEED MARTIN
SPACE SYSTEMS



V2-013

REV.

3

DATE

FACILITY OPERATIONS & SERVICES

DRAWN D.KAEINI

8/5/2014

DWG TITLE: SECURITY MESH SCREEN FROM TOP OF DRYWALL

CHECKED M.DOOLEY

8/11/2014

TO UNDERSIDE OF ROOF

APPROVED M.DOOLEY

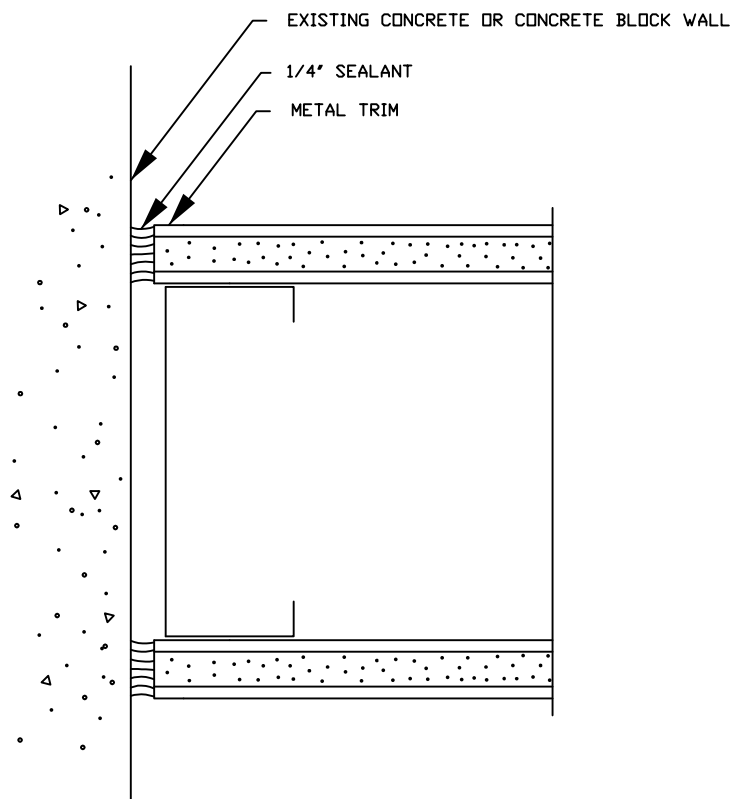
8/11/2014

SCALE: 3" = 1'-0"

CAD. ID. V2-013.DWG

ER NO.

SHT. OF 1



PLAN VIEW

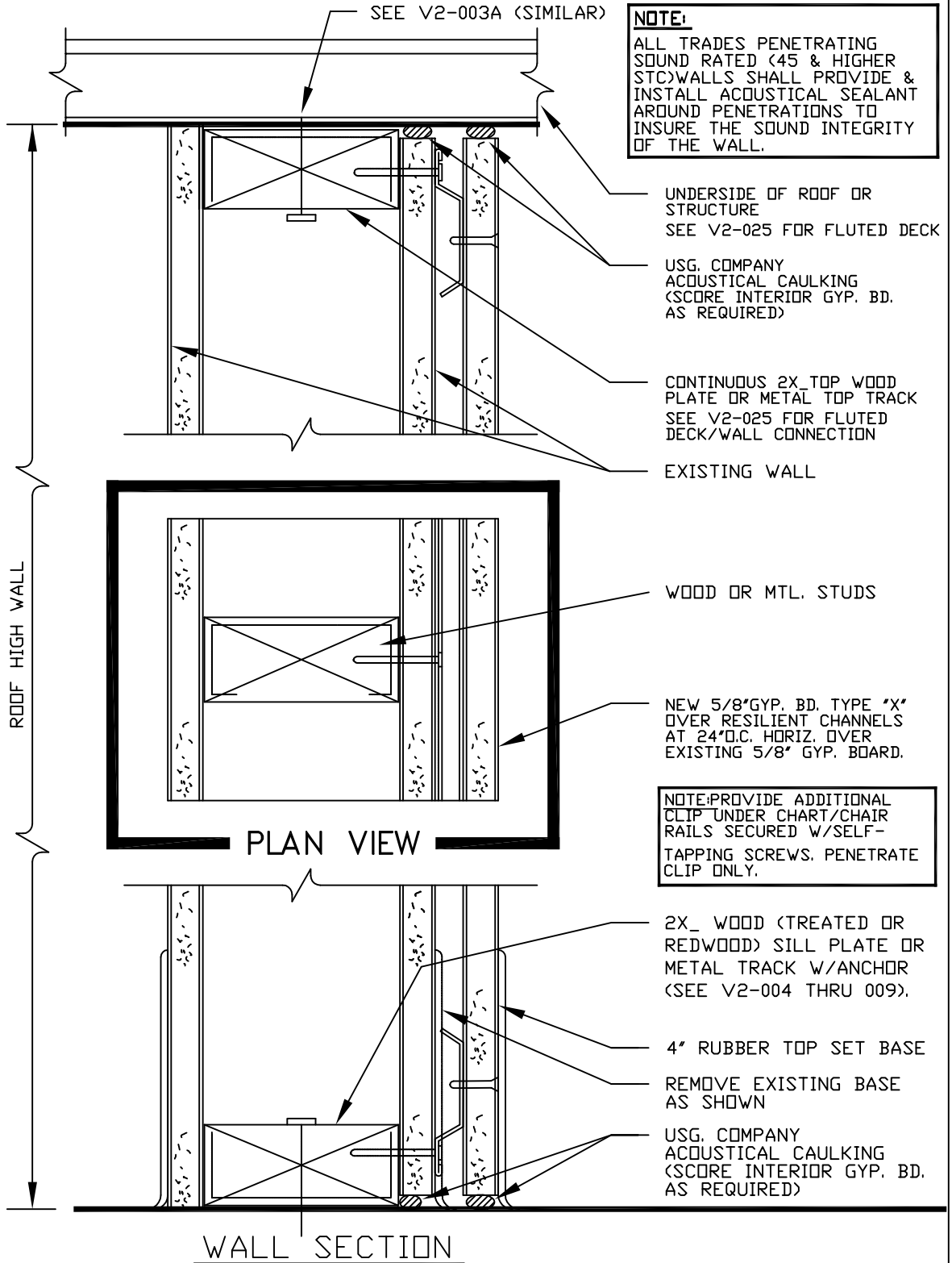
LOCKHEED MARTIN SPACE SYSTEMS		V2-015	REV. 2
			DATE
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN JOHN WILLIAMS	4/17/92
DWG TITLE: DRYWALL CONTROL AT CONCRETE OR MASONRY WALL		CHECKED	
		APPROVED	
SCALE: HALF SIZE	CAD. ID. V2-015	ER NO.	SHT. OF 1 OF 1

NOTES:

ACCEPTABLE METAL STUD MANUFACTURERS:
1. ANGELES METAL STUD SYSTEMS
2. WESTERN STEEL FRAMING SYSTEMS
3. AN APPROVED EQUAL BY A LICENSED STRUCTURAL ENGINEER.

ALL CONDUITS, WIRES, PNEUMATIC TUBES, ETC. MUST BE SURFACE MOUNTED. EXCEPTIONS MUST BE APPROVED BY TECHNICAL SECURITY.

FOR METAL STUDS & WALLS, PROVIDE TOP & BOTTOM CONNECTIONS, & END WEB STIFFENERS PER LATEST APPLICABLE ICBO REPORT.



NOTE: ALL METAL STUDS SHALL HAVE STIFFENED FLANGES.

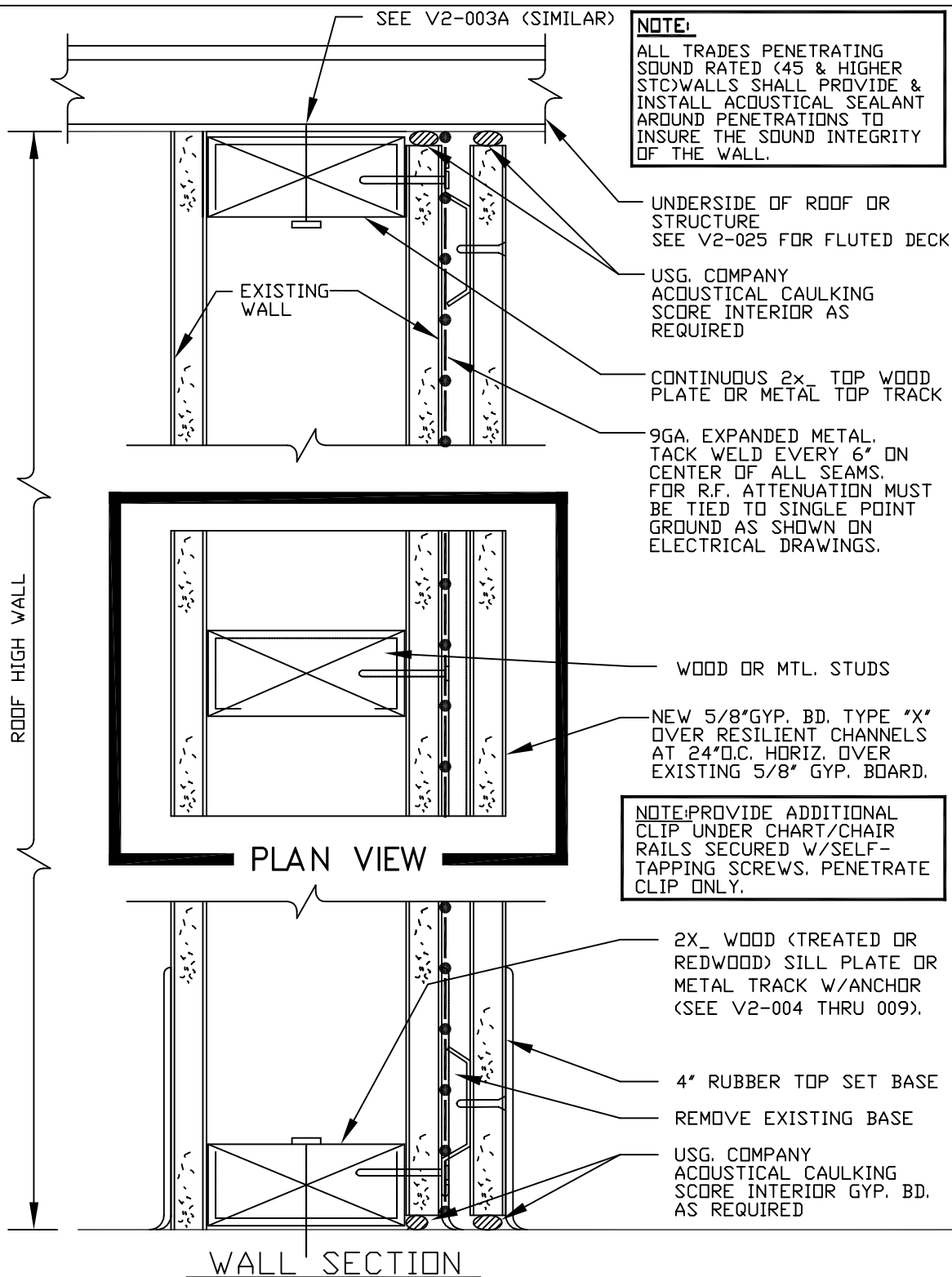
LOCKHEED MARTIN SPACE SYSTEMS		V2-017	REV.
			3
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN BPALMON	DATE
DWG TITLE: WALL FURRING FOR SOUND RATED WALLS ON EXISTING WALLS		CHECKED	8-13-96
ALL FACILITIES		APPROVED	
SCALE: NOT TO SCALE	CAD. ID. V2-017.DWG	ER NO.	SHT. OF 1

NOTES:

ACCEPTABLE METAL STUD MANUFACTURERS:
1. ANGELES METAL SYSTEMS
2. WESTERN STEEL FRAMING SYSTEMS
3. AN APPROVED EQUAL BY A LICENSED STRUCTURAL ENGINEER.

ALL CONDUITS, WIRES, PNEUMATIC TUBES, ETC. MUST BE SURFACE MOUNTED. EXCEPTIONS MUST BE APPROVED BY TECHNICAL SECURITY.

FOR METAL STUDS & WALLS, PROVIDE TOP & BOTTOM CONNECTIONS, & END WEB STIFFENERS PER LATEST APPLICABLE ICBO REPORT.



NOTE:
ALL TRADES PENETRATING SOUND RATED (45 & HIGHER STC) WALLS SHALL PROVIDE & INSTALL ACOUSTICAL SEALANT AROUND PENETRATIONS TO INSURE THE SOUND INTEGRITY OF THE WALL.

NOTE: PROVIDE ADDITIONAL CLIP UNDER CHART/CHAIR RAILS SECURED W/SELF-TAPPING SCREWS. PENETRATE CLIP ONLY.

NOTE: ALL METAL STUDS SHALL HAVE STIFFENED FLANGES.

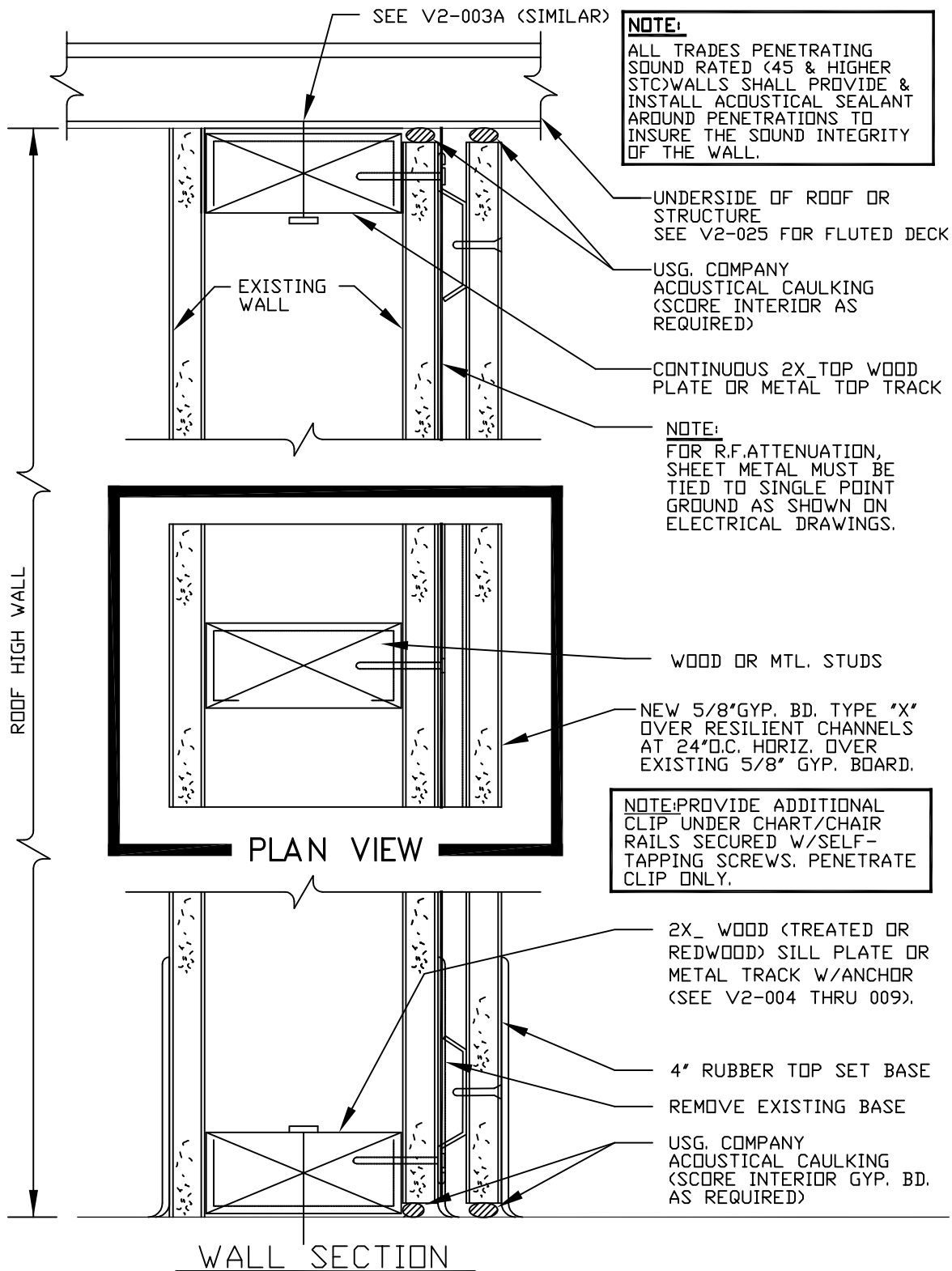
LOCKHEED MARTIN SPACE SYSTEMS		V2-017A	REV.
			3
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN BPALMON	DATE
DWG TITLE: WALL FURRING FOR SOUND RATED WALLS W/EXPANDED METAL		CHECKED	8-13-96
ALL FACILITIES		APPROVED	
SCALE: NOT TO SCALE	CAD. ID. V2-017A.DWG	ER NO.	SHT. OF 1

NOTES:

ACCEPTABLE METAL STUD MANUFACTURERS:
1. ANGELES METAL SYSTEMS
2. WESTERN STEEL FRAMING SYSTEMS
3. AN APPROVED EQUAL BY A LICENSED STRUCTURAL ENGINEER.

ALL CONDUITS, WIRES, PNEUMATIC TUBES, ETC. MUST BE SURFACE MOUNTED. EXCEPTIONS MUST BE APPROVED BY TECHNICAL SECURITY.

FOR METAL STUDS & WALLS, PROVIDE TOP & BOTTOM CONNECTIONS, & END WEB STIFFENERS PER LATEST APPLICABLE ICBO REPORT.



NOTE:

ALL TRADES PENETRATING SOUND RATED (45 & HIGHER STC) WALLS SHALL PROVIDE & INSTALL ACOUSTICAL SEALANT AROUND PENETRATIONS TO INSURE THE SOUND INTEGRITY OF THE WALL.

UNDERSIDE OF ROOF OR STRUCTURE
SEE V2-025 FOR FLUTED DECK

USG. COMPANY ACOUSTICAL CAULKING (SCORE INTERIOR AS REQUIRED)

CONTINUOUS 2X TOP WOOD PLATE OR METAL TOP TRACK

NOTE:

FOR R.F. ATTENUATION, SHEET METAL MUST BE TIED TO SINGLE POINT GROUND AS SHOWN ON ELECTRICAL DRAWINGS.

NOTE: PROVIDE ADDITIONAL CLIP UNDER CHART/CHAIR RAILS SECURED W/SELF-TAPPING SCREWS. PENETRATE CLIP ONLY.

NOTE: ALL METAL STUDS SHALL HAVE STIFFENED FLANGES.

LOCKHEED MARTIN
SPACE SYSTEMS



V2-017B

REV.	3
DATE	8-13-96
DRAWN	BPALMON
CHECKED	
APPROVED	
ER NO.	SHT. OF 1

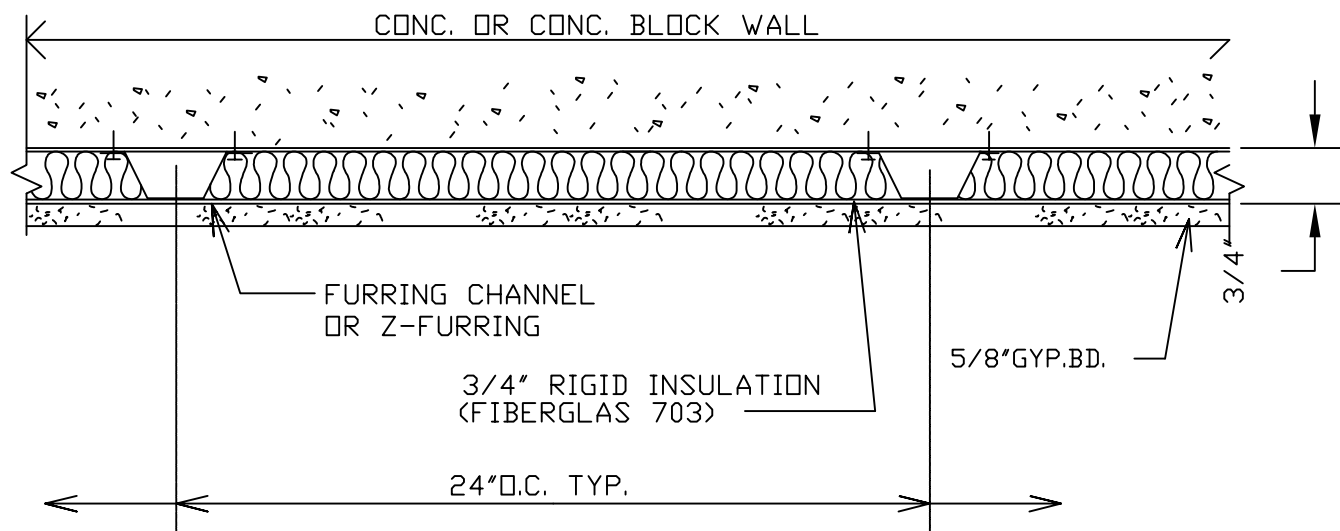
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DWG TITLE: WALL FURRING FOR SOUND RATED WALLS W/SHEET METAL

ALL FACILITIES

SCALE: NOT TO SCALE

CAD. ID. V2-017B.DWG

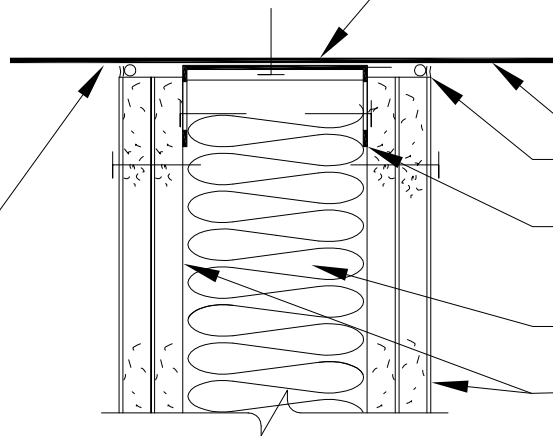


PLAN VIEW
N.T.S.

LOCKHEED MARTIN SPACE SYSTEMS		V2-020	REV. 1
			DATE 01/88
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	
DWG TITLE: WALL FURRING FOR CONCRETE OR MASONRY WALLS		CHECKED	
		APPROVED	
SCALE: 3"=1'-0"	CAD. ID. V2-020.DWG	ER NO.	SHT. OF 1

AT FLUTED DECK, FILL FLUTE WITH FIRE SAFING. CUT GYP BD TO MATCH DECK FLUTE WITH $\frac{3}{8}$ " GAP FOR DEFLECTION, CAULK JOINTS. WHERE WALL PARALLELS TO FLUTES FILL FLUTES WITH FIRE SAFING, AND INSTALL 16GA CONTINUOUS CLOSURE PLATE

INSTALL ACOUSTICAL CAULK IN CONTINUOUS BEAD PRIOR TO INSTALLATION OF TOP TRACK.



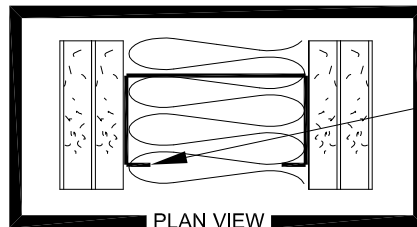
ROOF/FLOOR STRUCTURE ABOVE

CAULK JOINTS WITH ACOUSTICAL CAULK.

20 GA MIN. LISTED FIRE RATED SLIP TRACK SUCH AS SLP-TRK ER-5344.ULK.

METAL STUDS, SIZE AS SPECIFIED ON PLANS TYP.

5/8" TYPE X GYPSUM WALLBOARD 2 LAYERS EACH SIDE TYP.

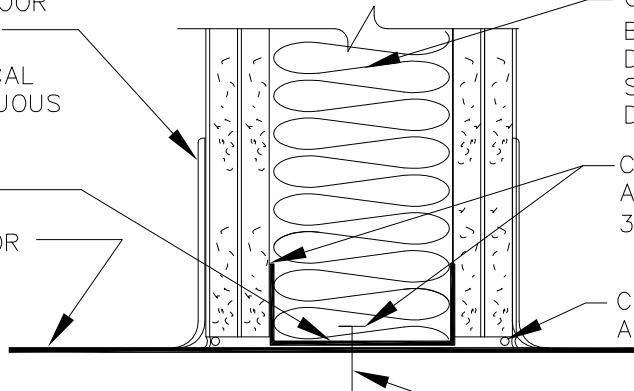


ALL METAL STUDS SHALL HAVE STIFFENED FLANGES. SIZE AS SHOWN ON PLANS TYP.

INSTALL 4" RUBBER TOP SET BASE AT TOP OF FINISH FLOOR SEE FINISH PLAN

INSTALL ACOUSTICAL CAULK IN CONTINUOUS BEAD PRIOR TO INSTALLATION OF BOTTOM TRACK.

STRUCTURAL FLOOR



GLASS FIBER ACOUSTICAL BATT INSULATION $3\frac{1}{2}$ " OR FULL DEPTH OF STUD, FRICTION FIT. SECURE TO PREVENT SLIPPING DOWN

CONTINUOUS METAL TRACK ANCHORED TO STRUCTURE AT 32" O.C. MAX. SIM TO DETAIL

CAULK JOINTS WITH ACOUSTICAL CAULK

ANCHOR AT 32" O.C MAXIMUM

NOTES:

CONSTRUCTION SHALL COMPLY WITH IC TECHNICAL SPEC FOR ICD/ICS 705 WALL "A" SOUND GROUP "4"

ALL PENETRATIONS THRU WALLS SHALL BE SEALED WITH AN ACOUSTICAL SEALANT OR CAULK

STC RATED WALLS, EXCLUDING THEIR PENETRATIONS, SHALL BE CONSTRUCTED AS REQUIRED FOR FIRE RATED ASSEMBLIES.

APPLY WALLBOARD VERTICALLY OR HORIZONTALLY TO EACH STUD.

BASE LAYER: ATTACH WITH 1" TYPE "S" DRYWALL SCREWS AT 24" O.C.

FACE LAYER: ATTACH WITH 1 $\frac{5}{8}$ " TYPE "S" DRYWALL SCREWS AT 12" O.C.

JOINTS: STAGGER ALL JOINTS 24" EACH LAYER AND SIDE.

PROPRIETARY DATA-EXTERNAL
THIS DOCUMENT SHALL NOT BE REPRODUCED NOR SHALL THE INFORMATION CONTAINED HEREIN BE USED BY OR DISCLOSED TO OTHERS EXCEPT AS EXPRESSLY AUTHORIZED BY LOCKHEED MARTIN SPACE SYSTEMS, A UNIT OF LOCKHEED MARTIN CORPORATION.

PROPRIETARY DATA-INTERNAL
THIS DOCUMENT EITHER IN HARD COPY OR ELECTRONIC FORMAT, SHALL NOT BE REPRODUCED, REVISED, MODIFIED OR DISTRIBUTED BY ANY LOCKHEED MARTIN ORGANIZATION, WITHOUT THE SPECIFIC AUTHORIZATION FROM FACILITIES RECORDS CONTROL.

LOCKHEED MARTIN



V2-024A

REV.

2

DATE

LMSSC - FACILITY OPERATIONS & SERVICES

DRAWN DKAENI

7/9/2013

DWG TITLE: SECURITY ACOUSTICAL WALL CONSTRUCTION SOUND GROUP "4"

CHECKED MDOOLEY

7/9/2013

ALL FACILITIES

APPROVED MDOOLEY

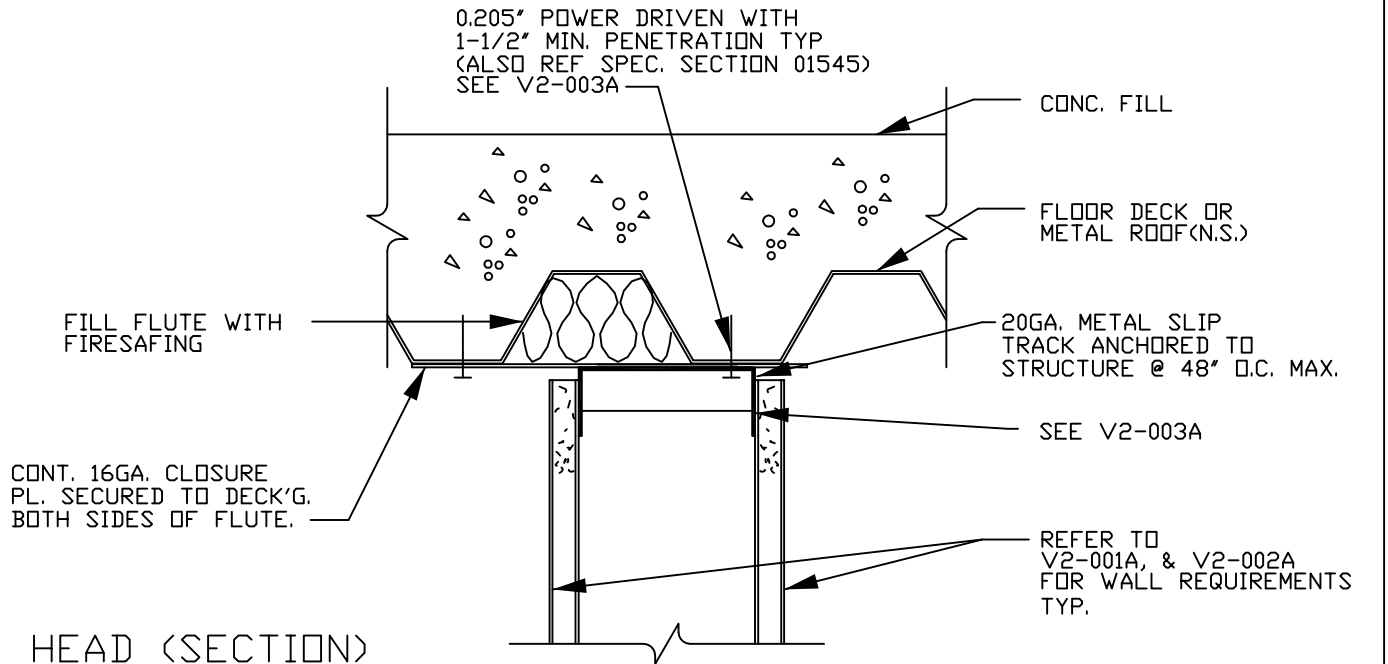
7/9/2013

SCALE: NONE

CAD. ID. V2-024-R2.DWG

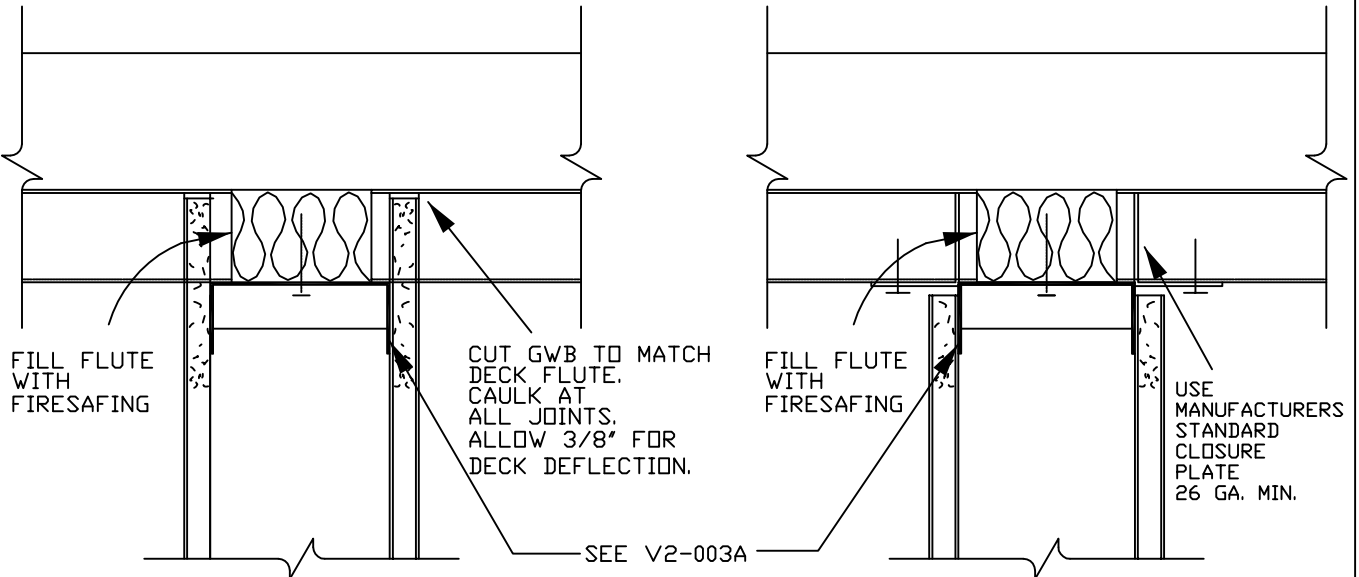
ER NO. NA

SHT. OF 1



HEAD (SECTION)

(PARALLEL TO FLUTES)



HEAD (SECTION)

(PERPENDICULAR TO FLUTES)
EITHER DETAIL IS APPROVED FOR USE.

NOTES:

FOR METAL STUD WALLS:
PROVIDE END STIFFENERS AT TOP
AND BOTTOM CONNECTIONS PER
LATEST APPLICABLE ICBO REPORT.

ACCEPTABLE METAL STUD MANUFACTURERS:

1. ANGELES METAL SYSTEMS
2. WESTERN STEEL FRAMING SYSTEMS
3. AN APPROVED EQUAL.

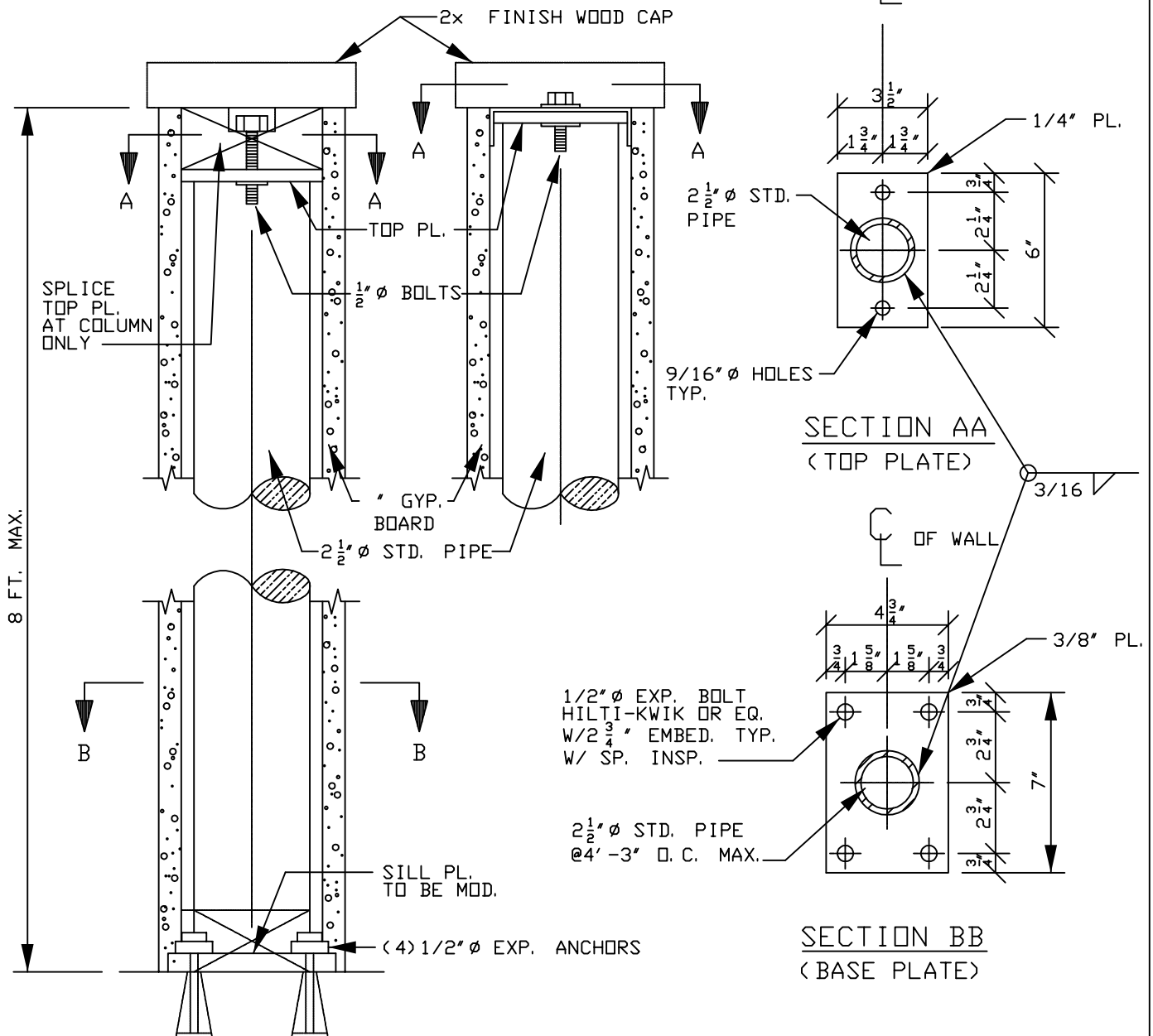
NOTE: THIS DETAIL IS INCOMPLETE WITHOUT V2-001A, V2-002A & V2-003A.

LOCKHEED MARTIN SPACE SYSTEMS		V2-025		REV.
				4
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	B.PALMON	DATE
DWG TITLE: FLUTED DECK / WALL INTERSECTION		CHECKED		8-19-96
ALL FACILITIES		APPROVED		
SCALE:	3"=1'-0"	CAD. ID.	V2-025.DWG	SHT. OF
				1

WOOD STUD

METAL STUD

C OF WALL



LOCKHEED MARTIN
SPACE SYSTEMS



V2-050

REV.

2

DATE

08-90

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN SILVIA LEE

DWG TITLE: PIPE COL. ANCHOR FOR 8'-0" HIGH FREE STANDING DRYWALL

CHECKED

ON MEZZ. FLOOR - ALL FACILITIES

APPROVED

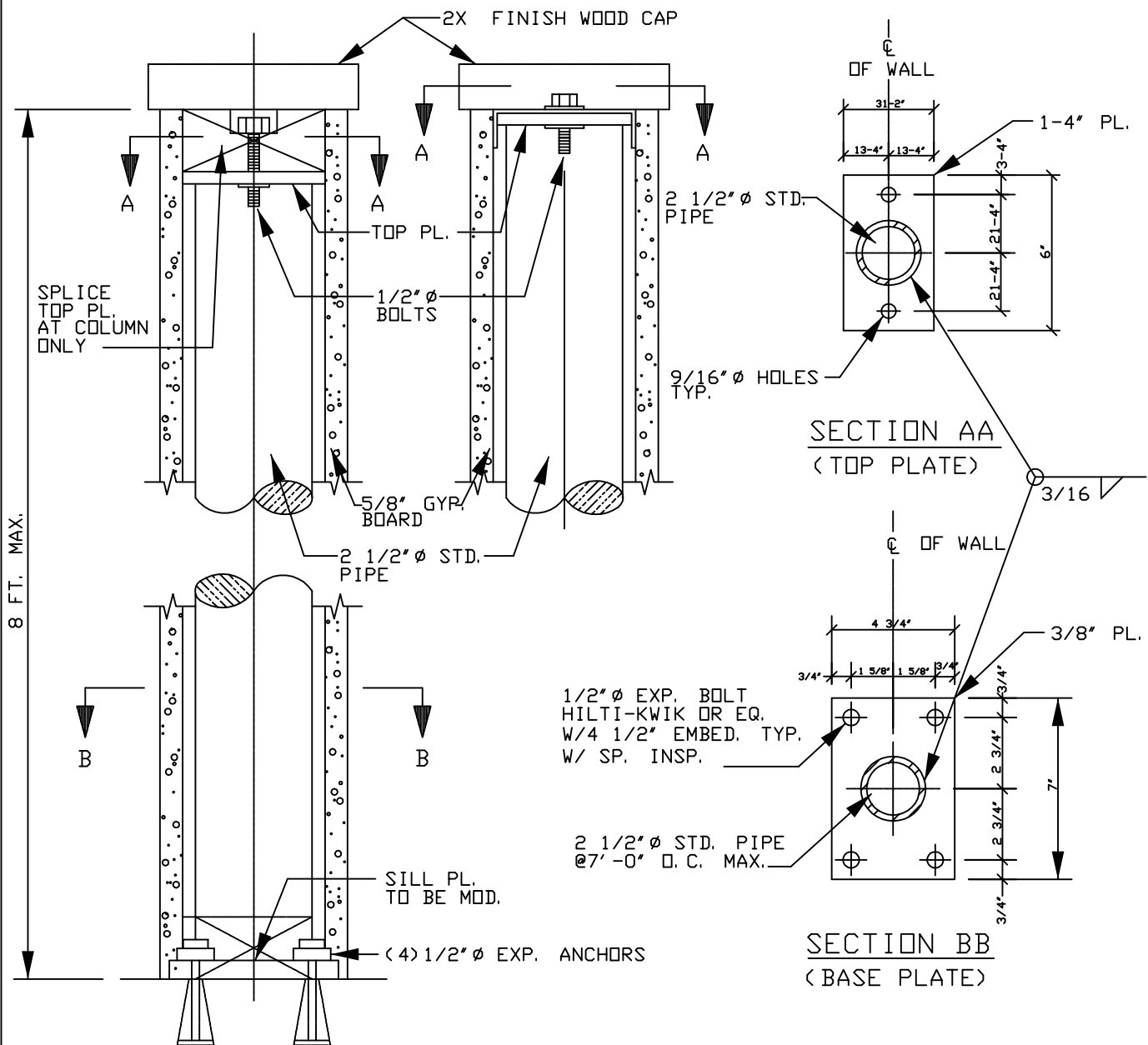
SCALE: 1" = 1'-0"

CAD. ID. V2-050.dwg

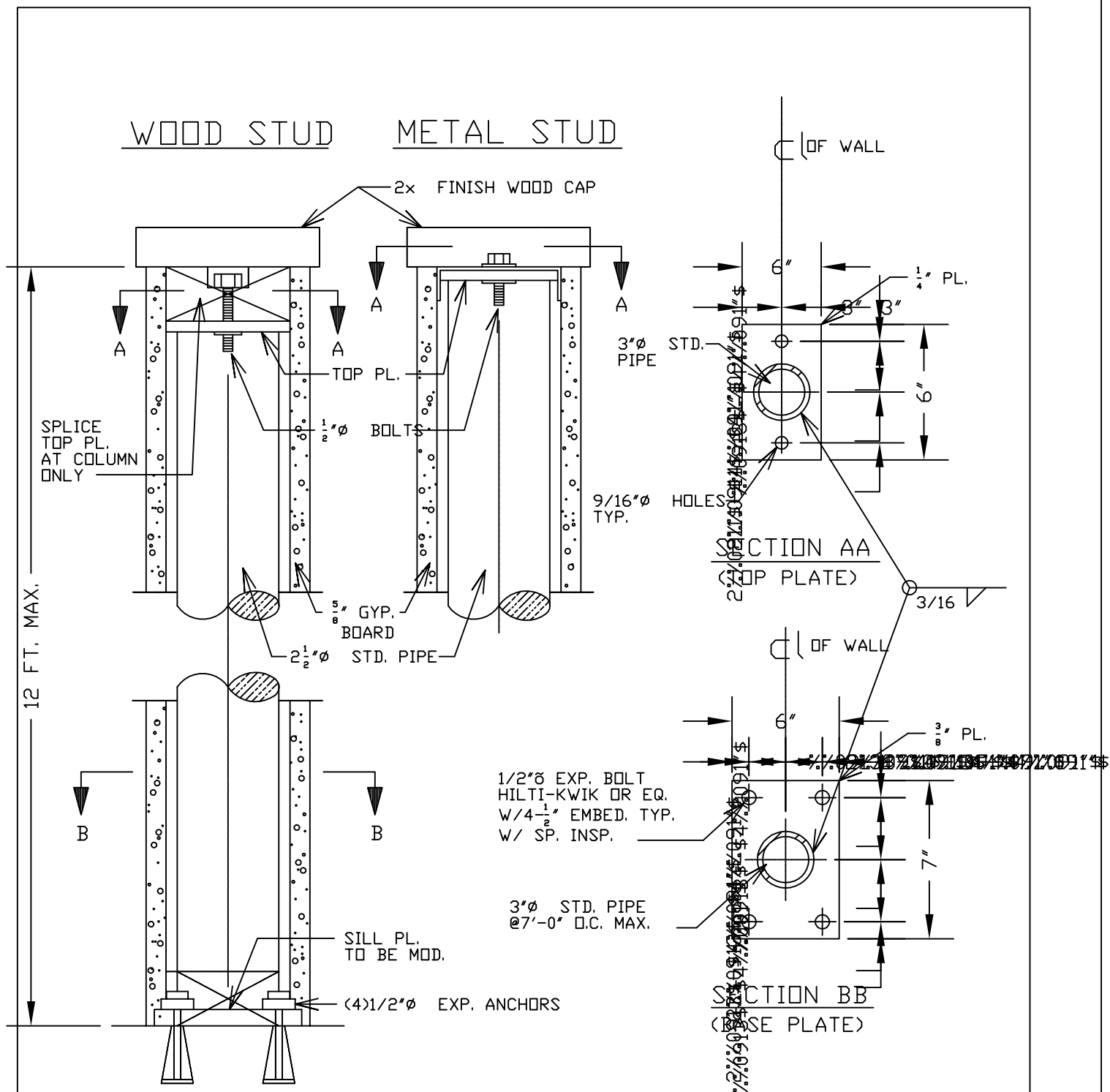
ER NO.

SHT. OF 1

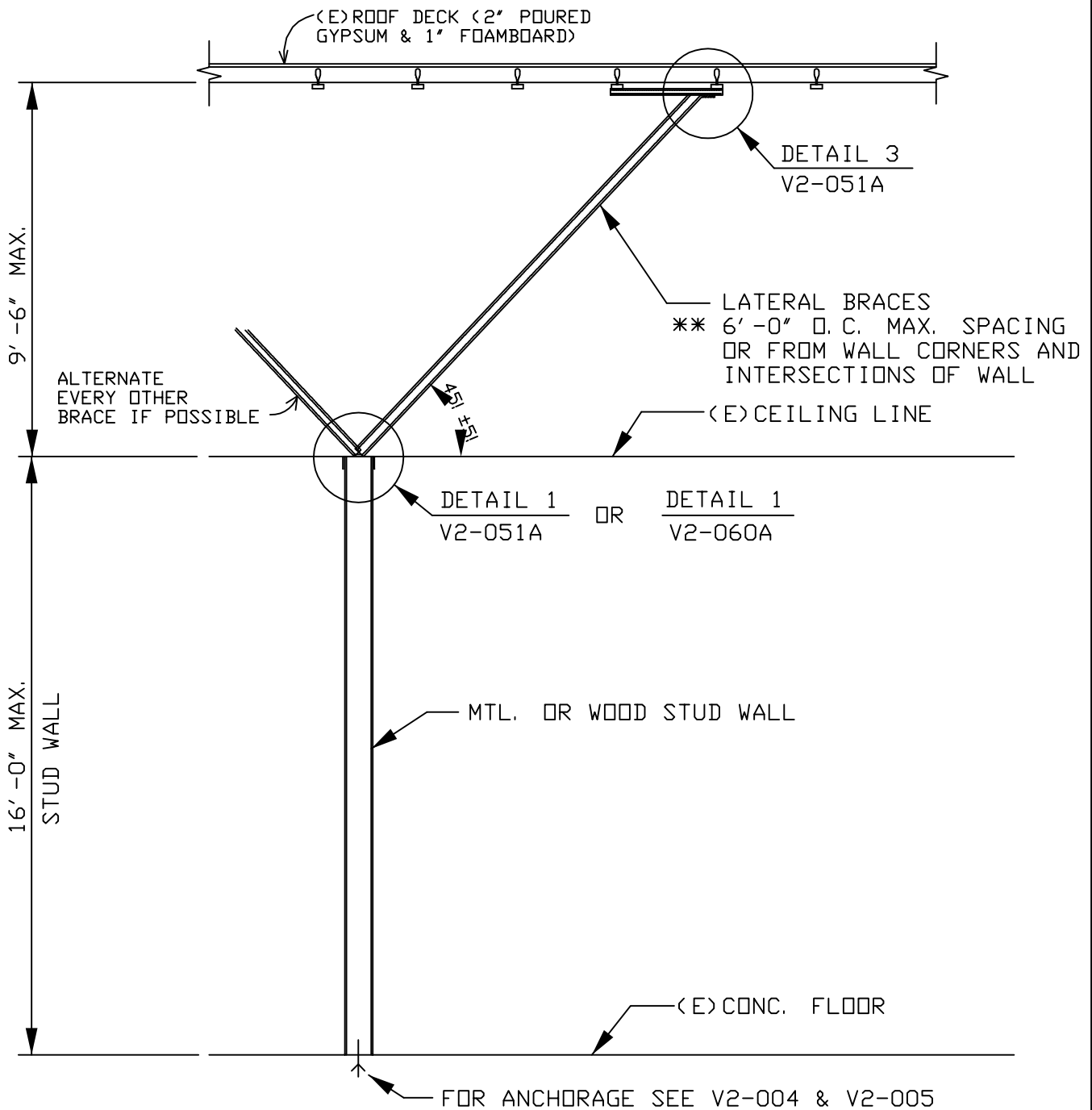
METAL STUD



		V2-050A		REV. 0
				DATE
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	SILVIA LEE	
DWG TITLE: PIPE COL. ANCHOR FOR 8'-0" HIGH FREE STANDING DRYWALL		CHECKED		
ON GROUND FLOOR - ALL FACILITIES		APPROVED		
SCALE: 1"=1'-0"	CAD. ID. V2-050A.dwg	ER NO.	SHT. OF 1	



LOCKHEED MARTIN SPACE SYSTEMS		V2-050B		REV.
				0
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	KAEINI	DATE
DWG TITLE: PIPE COL. FOR 12'-0" HIGH FREE STANDING DRYWALL		CHECKED		08/90
ALL FACILITIES		APPROVED		
SCALE: 1"=1'-0"	CAD. ID. V2-050B.DWG	ER NO.		SHT. OF 1



- NOTE: 1. DETAIL FOR POURED GYPSUM DECK W/STEEL FRAMING
 2. THIS SHEET SHALL WORK WITH V2-051A, V2-060A, V2-004 & V2-005.
 ** ADJUST BRACING LOCATIONS TO AVOID EXISTING UTILITIES AND INTERFERENCE.

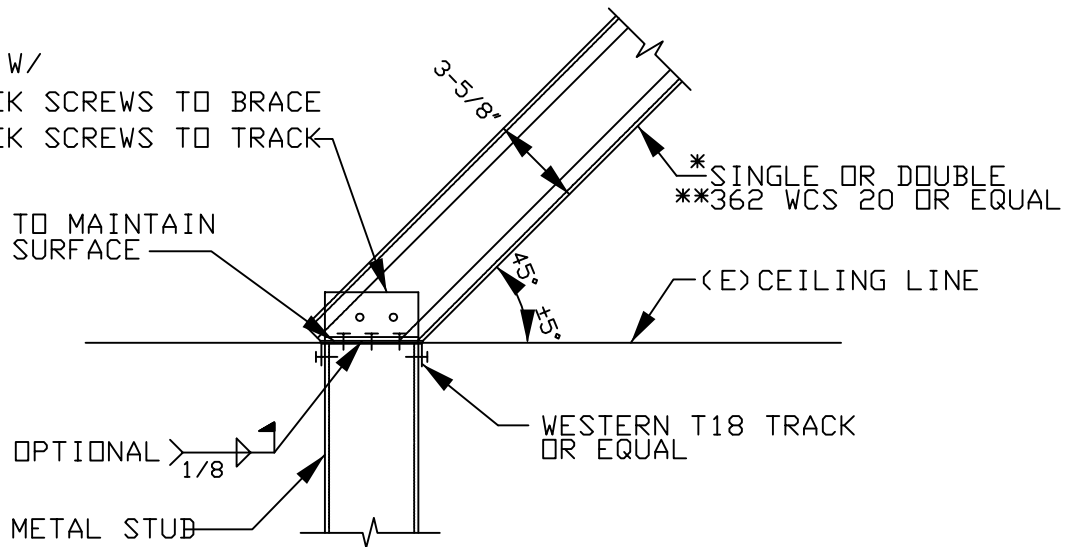
LOCKHEED MARTIN SPACE SYSTEMS		V2-051	REV.
			2
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN SILVIA LEE	DATE
DWG TITLE: LATERAL SUPPORT FOR CEILING-HIGH PARTITION-1		CHECKED	03-89
ALL FACILITIES		APPROVED	
SCALE: 1/4" = 1'-0"	CAD. ID. V2-051.dwg	ER NO.	SHT. OF 1

16 GA. ANGLE W/

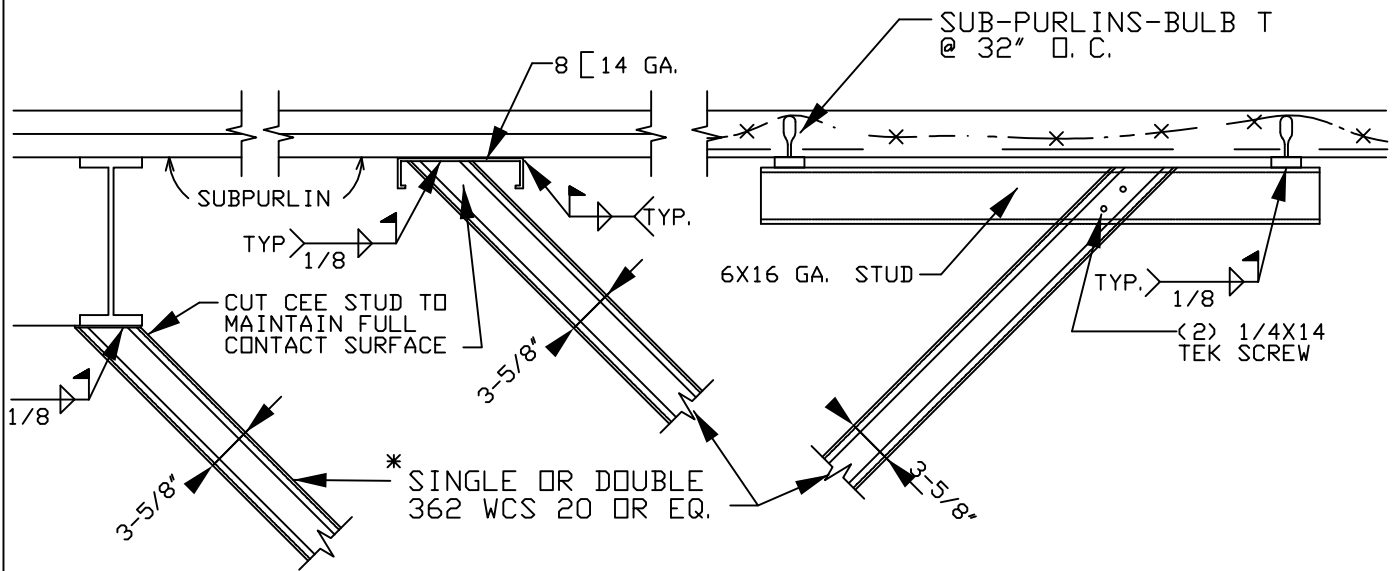
(2)#1/4X14 TEK SCREWS TO BRACE

(3)#1/4X14 TEK SCREWS TO TRACK

CUT CEE STUD TO MAINTAIN
FULL CONTACT SURFACE



DETAIL 1



ALTERNATE DETAILS FOR BRACES
PARALLELED TO SUBPURLINS

DETAIL 2

BRACE ⊥ SUBPURLINS

DETAIL 3

NOTES:

1. DETAILS FOR POURED GYPSUM DECK W/ STEEL FRAMING
 2. THIS SHEET SHALL WORK W/V2-051 & V2-054
- * (1) CEE STUD FOR BRACE LENGTH TO 10'-0" LONG □
(2) CEE STUDS FOR BRACE LENGTH TO 13'-3" LONG □
1/4X14 TEK SCREW 2 STUDS @2 FT. O.C.
- ** ADJUST BRACING LOCATIONS TO AVOID EXISTING UTILITIES AND INTERFERENCE.

LOCKHEED MARTIN
SPACE SYSTEMS



V2-051A

REV.

3

DATE

6-93

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN SILVIA SANTOS

DWG TITLE: LATERAL SUPPORT FOR CEILING-HIGH PARTITION-1(DETAILS)

CHECKED

ALL FACILITIES

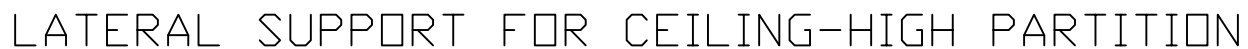
APPROVED


SCALE: 1"=1'-0"

CAD. ID. V2-051A.DWG

ER NO.

SHT. OF 1



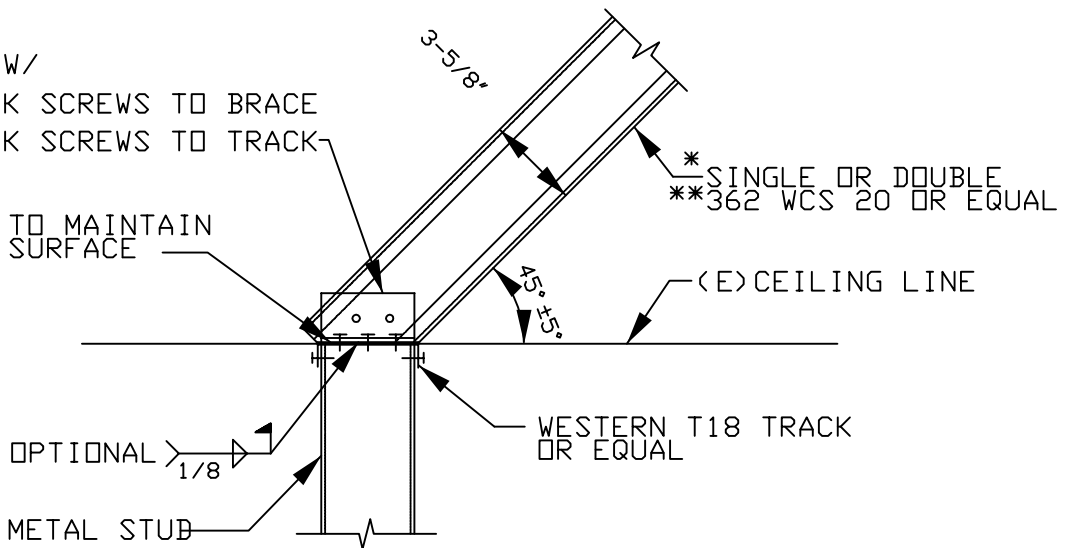
		V2-052		REV.
				2
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	S. LEE	DATE
DWG TITLE: LATERAL SUPPORT FOR CEILING-HIGH PARTITION-2		CHECKED		
ALL FACILITIES		APPROVED		
SCALE:	1/4"=1'-0"	CAD. ID.	V2-052.dwg	ER NO.
				SHT. OF
				1

16 GA. ANGLE W/

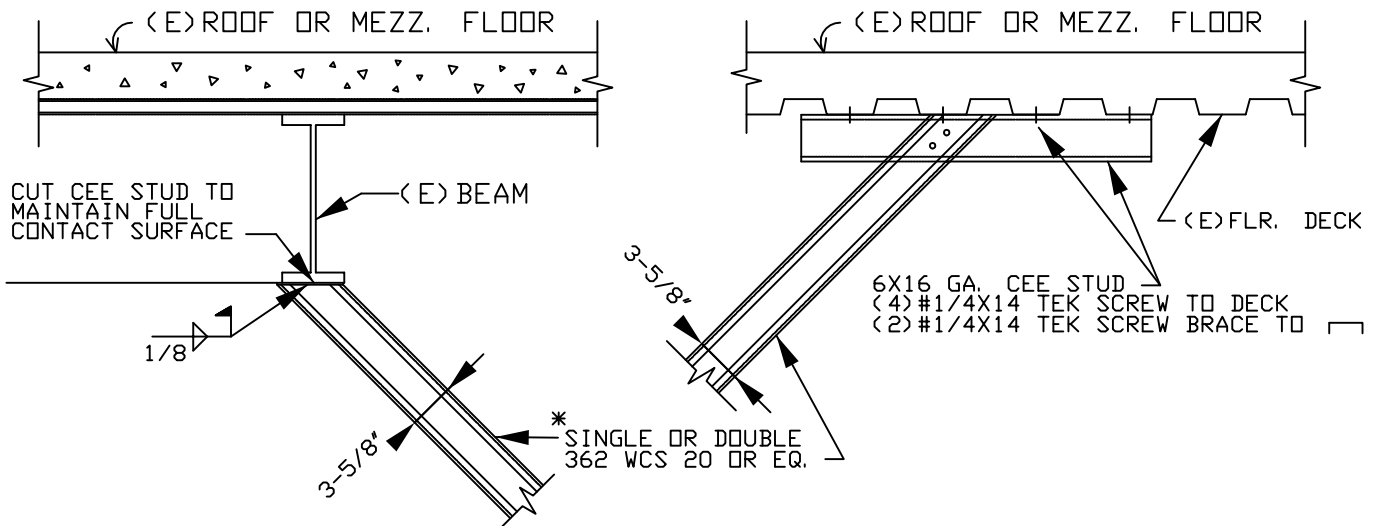
(2) #1-4x14 TEK SCREWS TO BRACE

(3) #1-4x14 TEK SCREWS TO TRACK

CUT CEE STUD TO MAINTAIN
FULL CONTACT SURFACE



DETAIL 1



DETAIL 2

DETAIL 3

- NOTES:
1. DETAIL FOR MEZZ. FLOOR W/ STEEL FRAMING
 2. THIS SHEET SHALL WORK W/V2-052 & V2-055.
- * (1) CEE STUD FOR BRACE LENGTH TO 10'-0" LONG □
(2) CEE STUDS FOR BRACE LENGTH TO 13'-3" LONG □□
1/4X14 TEK SCREW 2 STUDS @ 2 FT O. C.
- ** ADJUST BRACING LOCATIONS TO AVOID EXISTING UTILITIES AND INTERFERENCE.

LOCKHEED MARTIN
SPACE SYSTEMS



V2-052A

REV.

3

DATE

6-93

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN S. SANTOS

DWG TITLE: LATERAL SUPPORT FOR CEILING-HIGH PARTITION-2 (DETAILS)

CHECKED

ALL FACILITIES

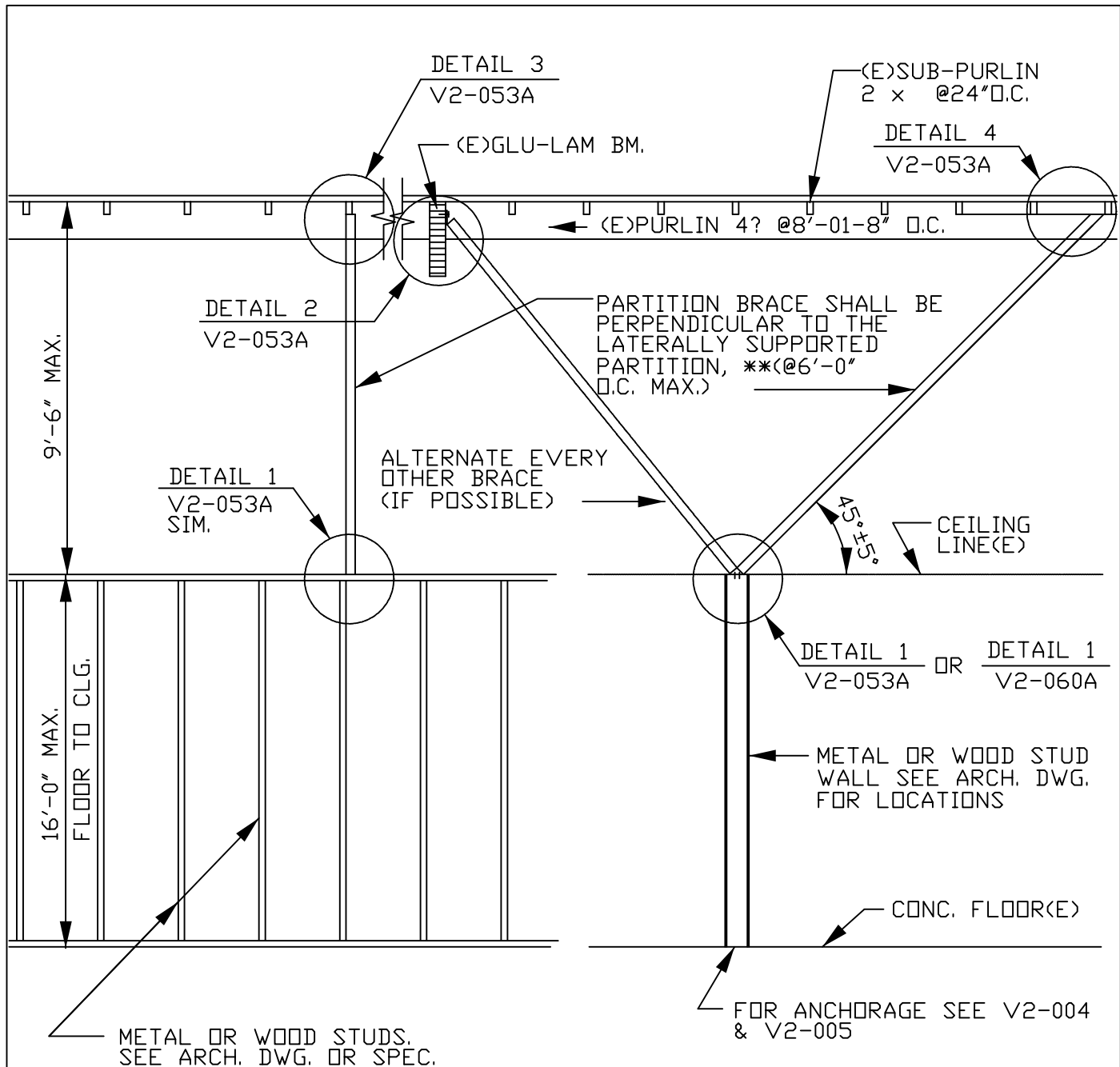
APPROVED

SCALE: 1"=1'-0"

CAD. ID. V2-052A.dwg

ER NO.

SHT. OF 1



PARTITION ⊥ SUBPURLINS

PARTITION // SUBPURLINS

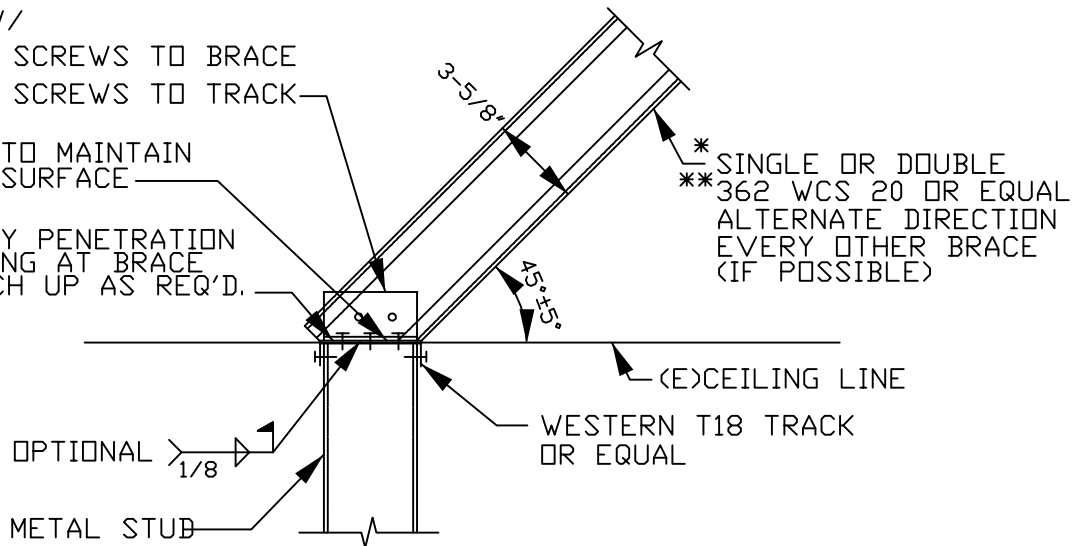
- NOTE: 1. DETAIL FOR POURED GYPSUM DECK W/STEEL FRAMING
 2. THIS SHEET SHALL WORK WITH V2-052A, V2-060A, V2-004 & V2-005.
 ** ADJUST BRACING LOCATIONS TO AVOID EXISTING UTILITIES AND INTERFERENCE.

LOCKHEED MARTIN SPACE SYSTEMS		V2-053		REV. 1
				DATE
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	SILVIA LEE	3/89
DWG TITLE: LATERAL SUPPORT FOR CEILING-HIGH PARTITION-3		CHECKED		
		APPROVED		
SCALE: 1/4"=1'-0"	CAD. ID. V2-053	ER NO.		SHT. OF 1 OF 1

16 GA. ANGLE W/
(2)#1/4X14 TEK SCREWS TO BRACE
(3)#1/4X14 TEK SCREWS TO TRACK

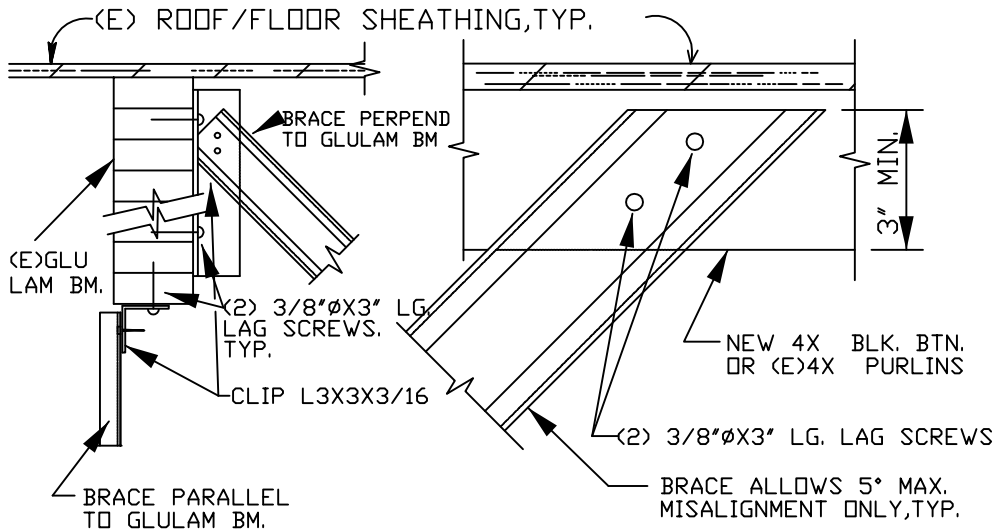
CUT CEE STUD TO MAINTAIN
FULL CONTACT SURFACE

MAKE NECESSARY PENETRATION
IN EXIST. CEILING AT BRACE
CONN. AND PATCH UP AS REQ'D.



DETAIL 1

SCALE: 3"=1'-0"



DETAIL 2

SCALE: 1"=1'-0"

DETAIL 3

SCALE: 3"=1'-0"
(BRACE PARALLEL
TO SUB-PURLIN)

NOTES: * (1)3-5/8X020GA. CEE STUD □ FOR BRACE LENGTH TO 10'-0" LONG.
* (2)3-5/8X20GA. CEE STUD □□ FOR BRACE LENGTH TO 13'-3" LONG.
CONNECT 2 STUDS SPOT WELDS @ 2 FT. O.C.
** ADJUST BRACING LOCATIONS TO AVOID EXISTING UTILITIES AND
INTERFERENCE.
THIS SHEET SHALL WORK W/V2-053 & V2-056.

LOCKHEED MARTIN
SPACE SYSTEMS



V2-053A

REV. 3

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN SILVIA SANTOS

06/93

DWG TITLE: LATERAL SUPPORT FOR CEILING-HIGH PARTITION-3 (DETAILS)

CHECKED

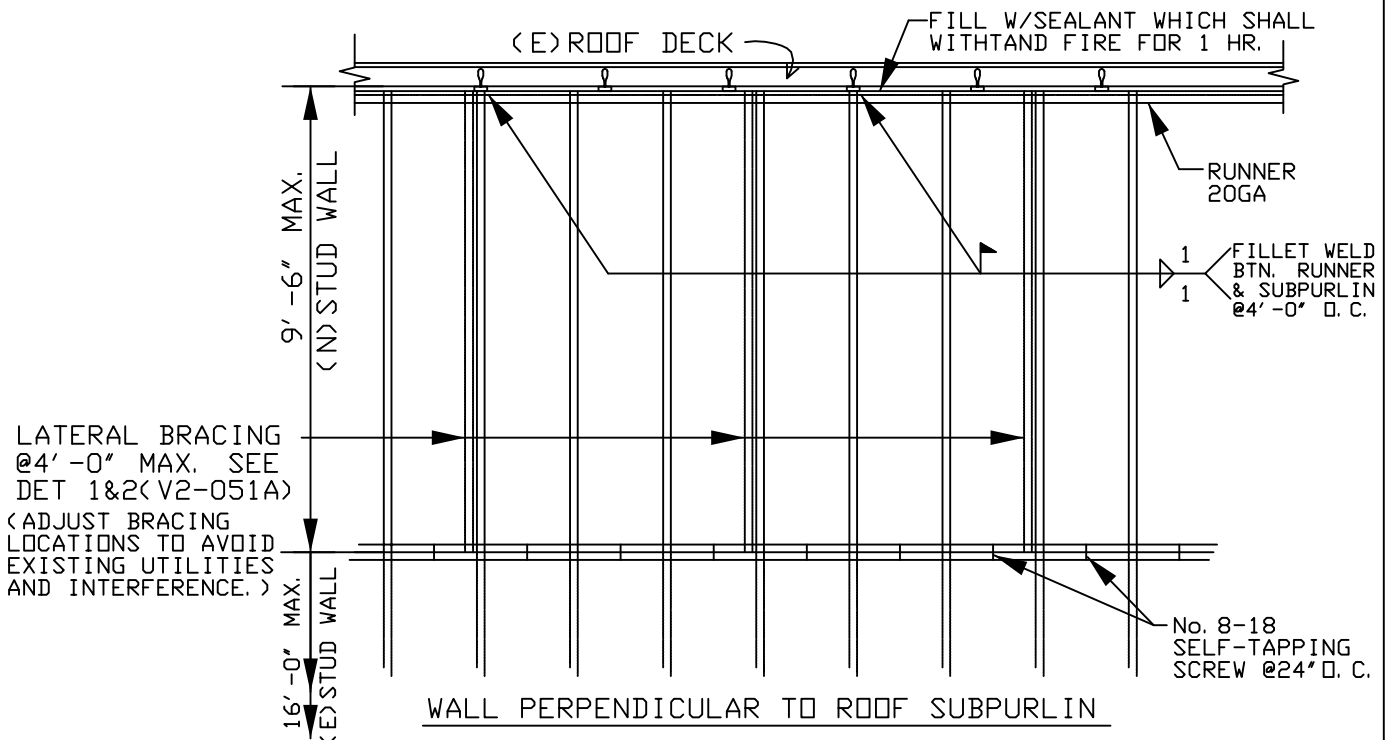
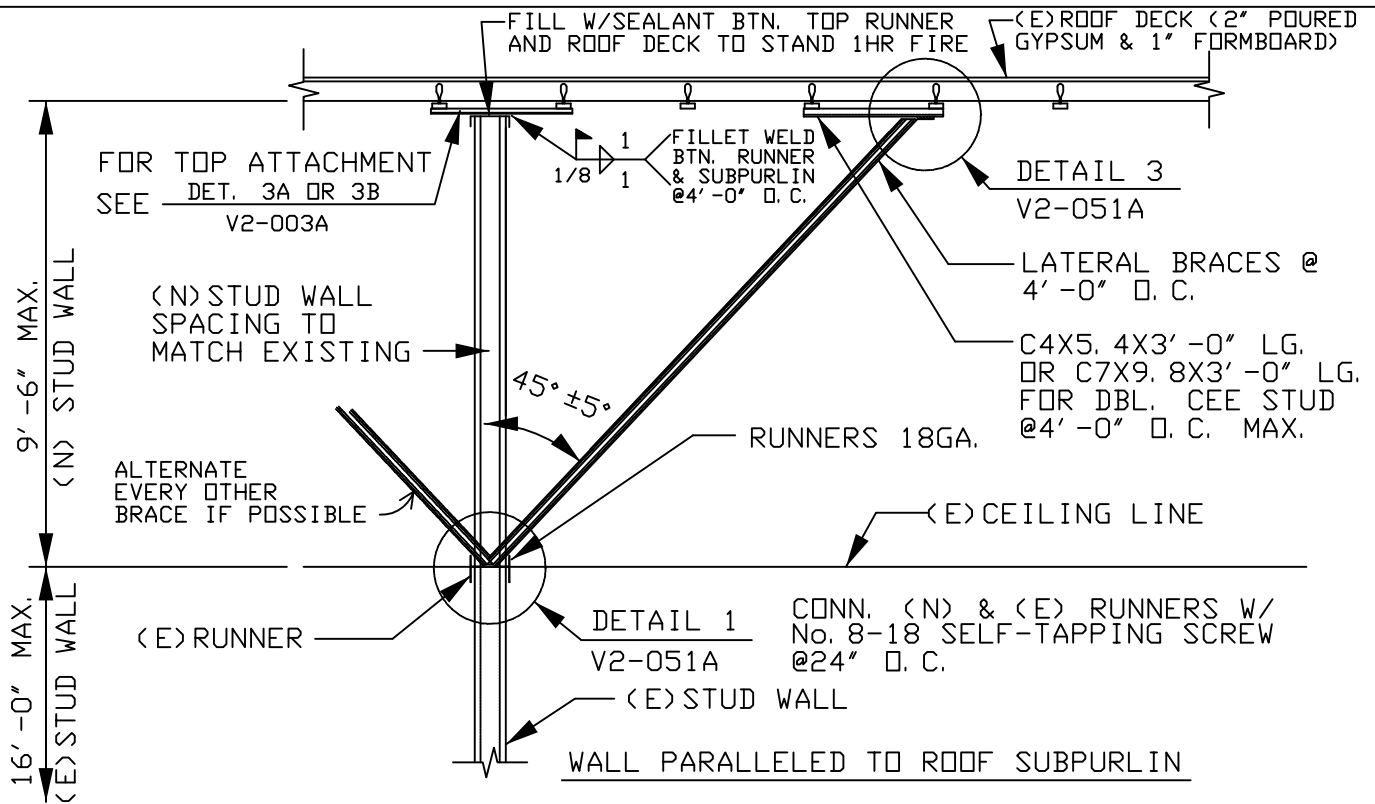
APPROVED

SCALE: AS SHOWN

CAD. ID. V2-053A.DWG

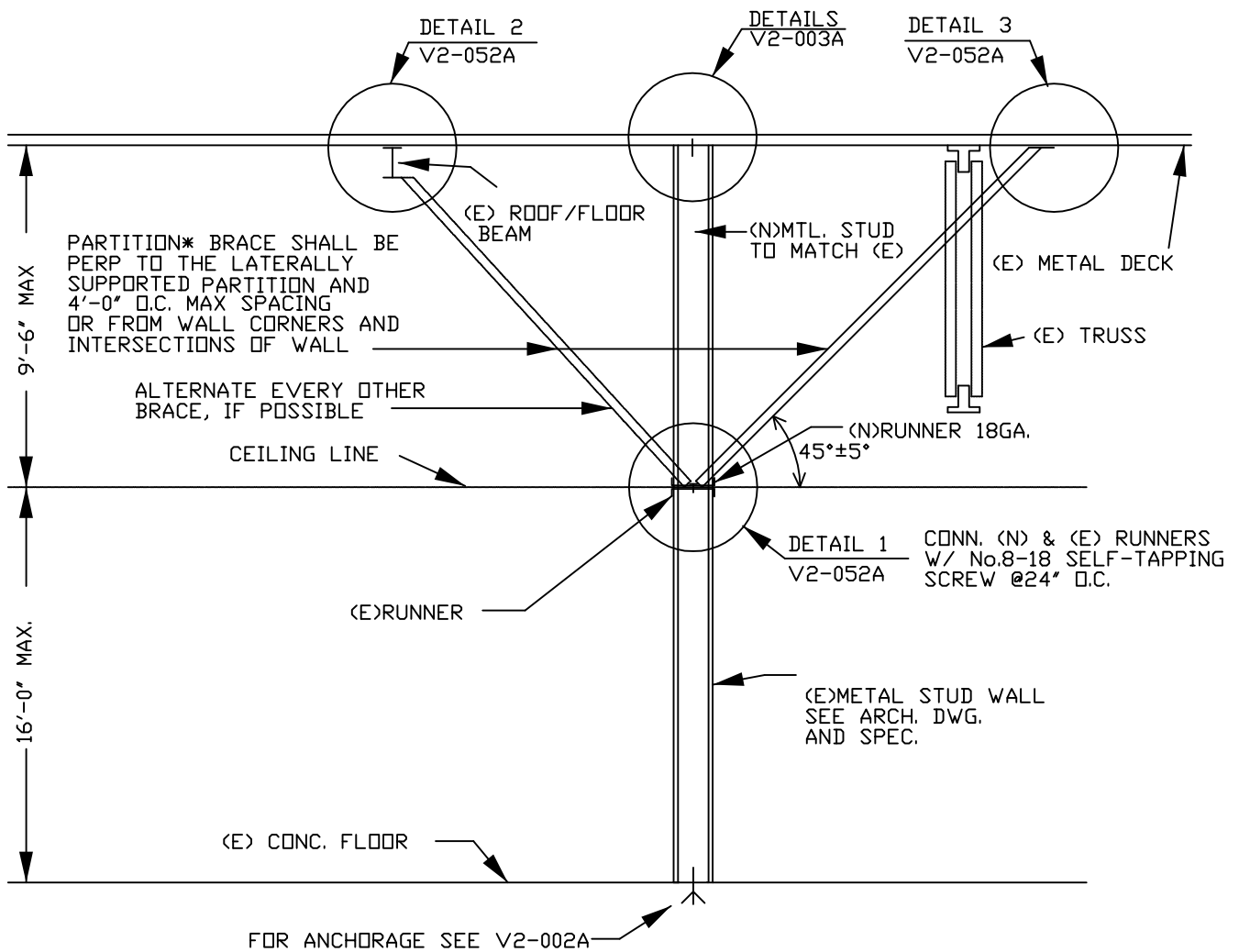
ER NO.

SHT. OF 1



- NOTES: 1. DETAIL FOR POURED GYPSUM DECK W/STEEL FRAMING
2. THIS SHEET SHALL WORK WITH V2-051A & V2-003A.

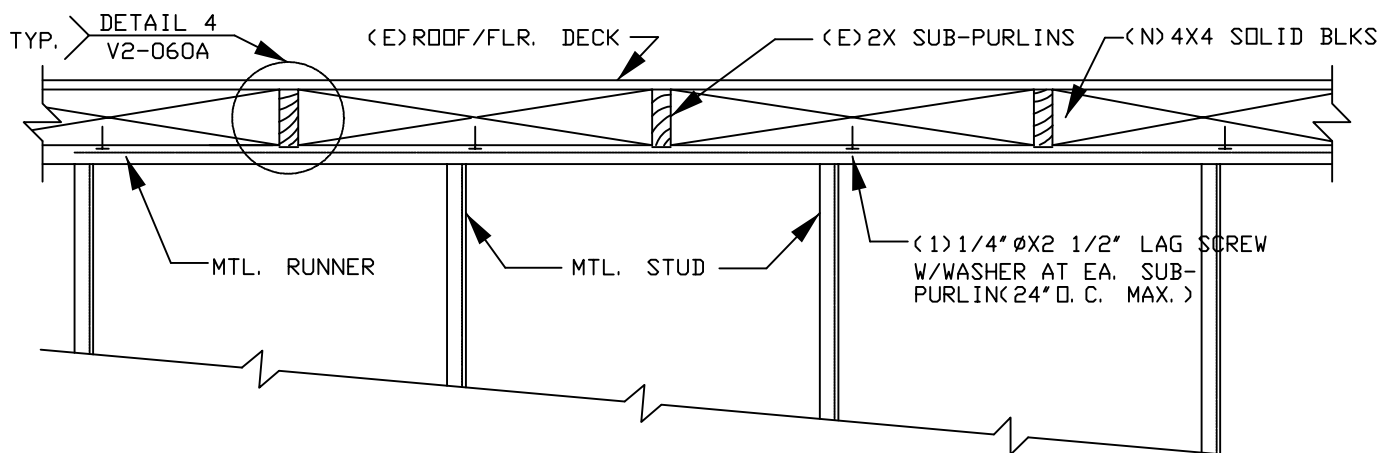
LOCKHEED MARTIN SPACE SYSTEMS		V2-054		REV.
				2
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	BPALMON	DATE
DWG TITLE: TYP. DETAILS FOR WALL EXTENDED FROM CEILING TO ROOF-1		CHECKED		
ALL FACILITIES		APPROVED		
SCALE: 1/4"=1'-0"	CAD. ID. V2-054.DWG	ER NO.		SHT. OF 1



LATERAL SUPPORT FOR CEILING-HIGH PARTITION

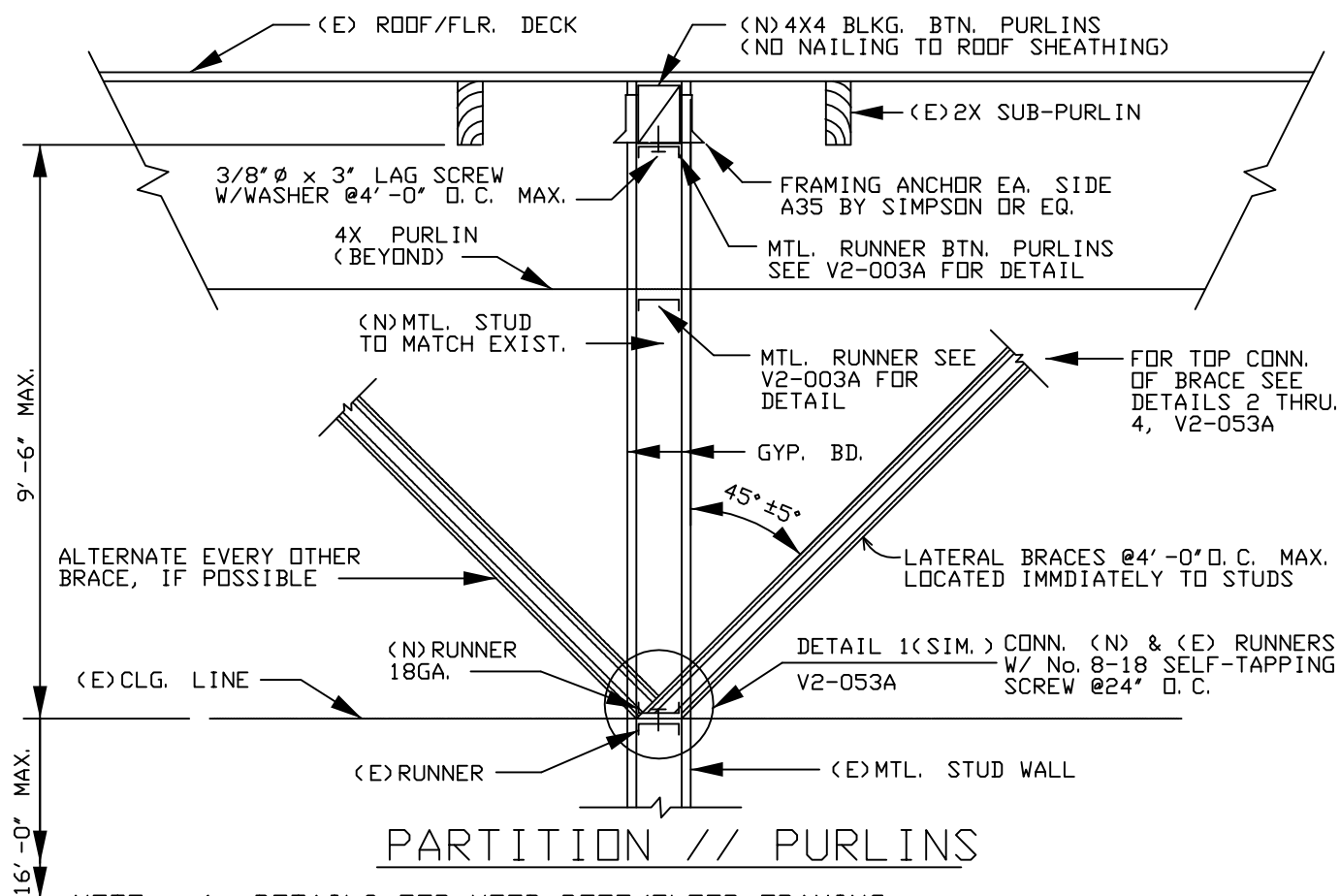
NOTE: 1. DETAIL FOR METAL DECK ROOF OR FLOOR W/STEEL FRAMING.
2. THIS SHEET SHALL WORK WITH V2-052A, V2-002A & V2-003A.

LOCKHEED MARTIN SPACE SYSTEMS		V2-055	REV. 2
			DATE
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN BPALMON	8-19-96
DWG TITLE: TYP. DETAILS FOR WALL EXTENDED FROM CLG. TO RF./FLR.-2		CHECKED	
ALL FACILITIES		APPROVED	
SCALE: NONE	CAD. ID. V2-055.DWG	ER NO.	SHT. OF 1



PARTITION ⊥ SUBPURLINS

WHERE WALL PASSES DIRECTLY BELOW PURLIN,
ANCHOR RUNNER TO PURLIN.



PARTITION // PURLINS

- NOTE: 1. DETAILS FOR WOOD ROOF/FLOOR FRAMING
2. THIS SHEET SHALL WORK W/V2-003A & V2-053A.

LOCKHEED MARTIN
SPACE SYSTEMS



V2-056

REV.

2

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN BPALMON

8-19-96

DWG TITLE: TYP. DETAILS FOR WALL EXTENDED FROM CLG. TO ROOF FLR.-3

CHECKED

ALL FACILITIES

APPROVED

SCALE: NONE

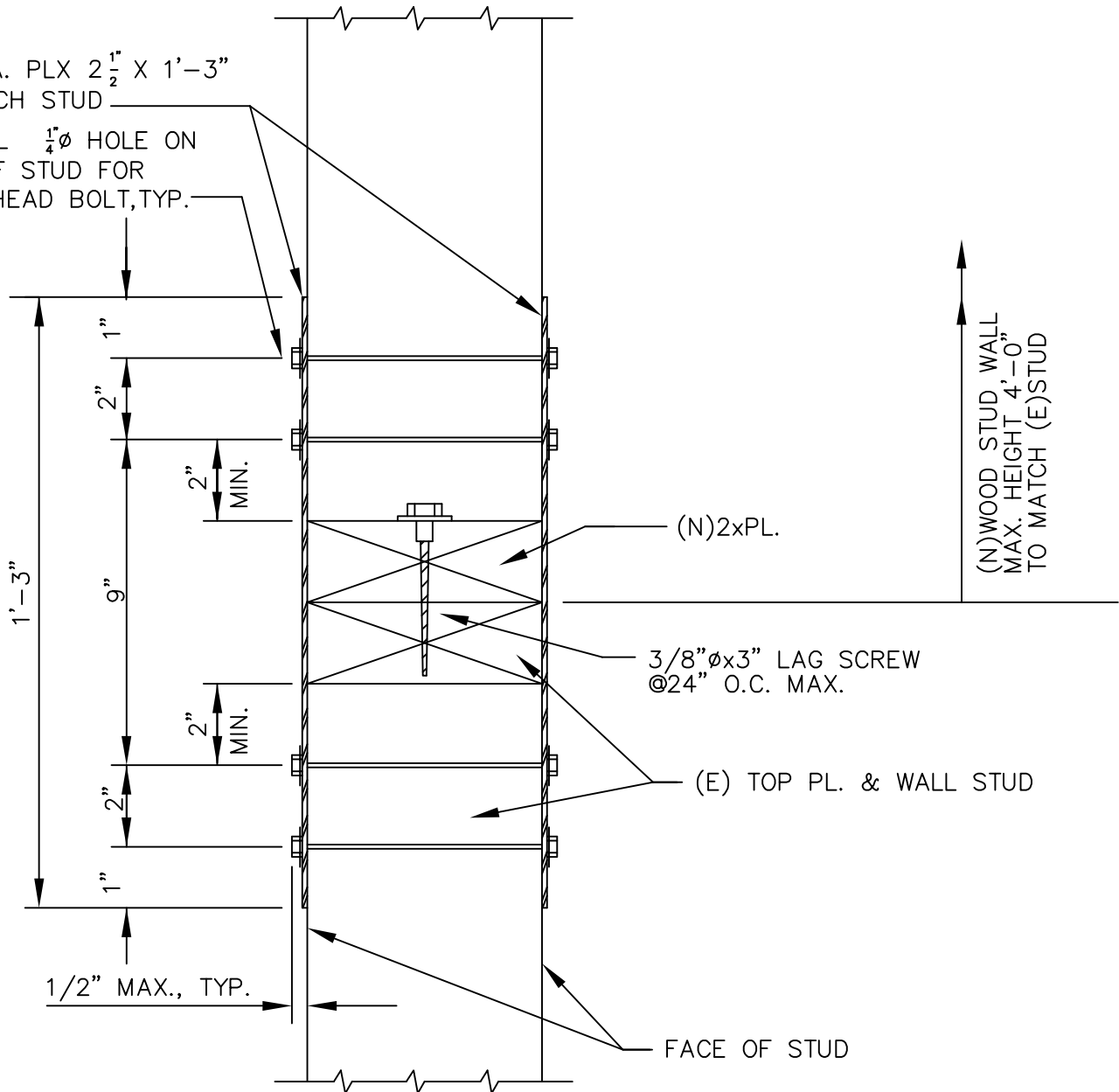
CAD. ID. V2-056.DWG

ER NO.

SHT. OF 1

12GA. PLX $2\frac{1}{2}" \times 1'-3"$
@EACH STUD

DRILL $\frac{1}{4}" \varnothing$ HOLE ON
C OF STUD FOR
 $\frac{1}{4}" \varnothing$ HEAD BOLT, TYP.



SECTION VIEW

- NOTE: 1. TOTAL LENGTH OF (E) & (N) WALL SHALL BE $14'-0"$ MAX.
2. ANCHOR OR BRACE TOP OF (N) WALL AS REQ'D PER V2-003A, V2-051, V2-052 & V2-053.

LOCKHEED MARTIN
SPACE SYSTEMS



V2-057

REV.

2

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN BPALMON

8-13-96

DWG TITLE: EXTENSION OF NON-BEARING WOOD STUD WALL

CHECKED

ALL FACILITIES

APPROVED


SCALE: $1/4" = 1'-0"$

CAD. ID. V2-057.DWG

ER NO.

SHT. OF 1



		V2-058	REV. 1
			DATE
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN ANDY LEUNG	3-89
DWG TITLE: EXTENSION OF METAL STUD WALL		CHECKED	
ALL FACILITIES		APPROVED	
SCALE: 1/4"=1'-0"	CAD. ID. V2-058.dwg	ER NO.	SHT. OF 1

2x8 DOUGLAS FIR(D.F.)
FINISH WOOD TRIM,
ROUND TOP CORNERS

NO.10 WOOD SCREW AT
24" O.C. WITH WOOD PLUG.

2x6 WOOD TOP PLATE

METAL TRIM ON
EACH SIDE

2x6'S WOOD STUDS @10"O.C. (TYP.)

5/8" GYP. BOARD

2x6 WOOD SILL PLATE

4" RUBBER TOP SET BASE

WASHER PLATE
1/4"x12"x12"

FINISH FLOOR

3'-6"(*)

1/2"x8" EXPANSION ANCHOR
W/2-3/4" EMBEDMENT @ 24" O.C. MAX.

2-SIMPSON FRAMING
ANGLES A-35/STUD
OR APPROVED EQUAL
AT OPPOSITE CORNERS

RAILING WALL SECTION

NOTE: (*) IF HIGHER THAN 3'-6" CONSULT W/LMSC STRUCTURAL ENGINEER.

LOCKHEED MARTIN
SPACE SYSTEMS



V2-059

REV.

1

DATE

03/89

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN ANDY LEUNG

DWG TITLE: WOOD STUD DRYWALL RAILING DETAIL

CHECKED

ALL FACILITIES

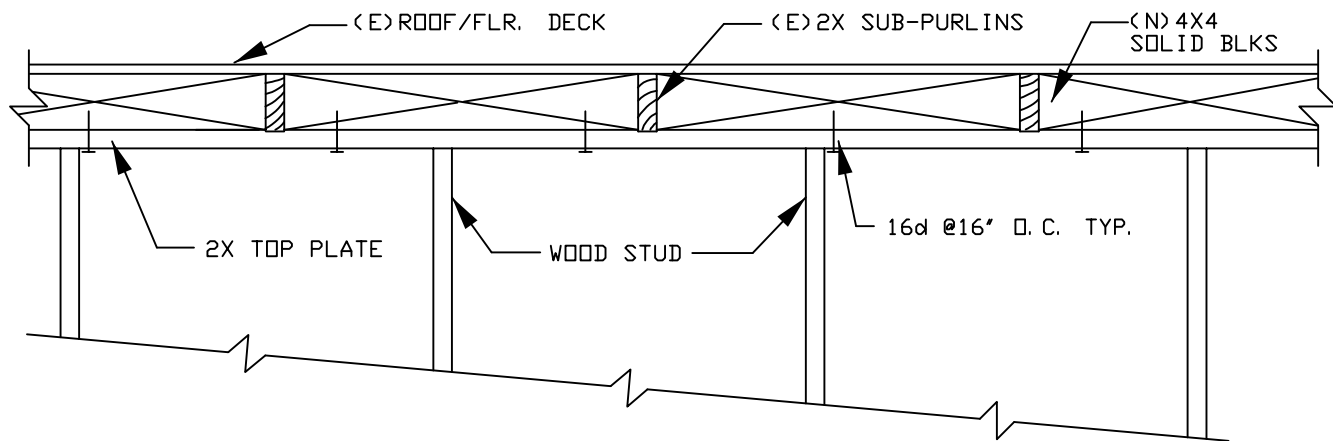
APPROVED

SCALE: 3" = 1'-0"

CAD. ID. V2-059.dwg

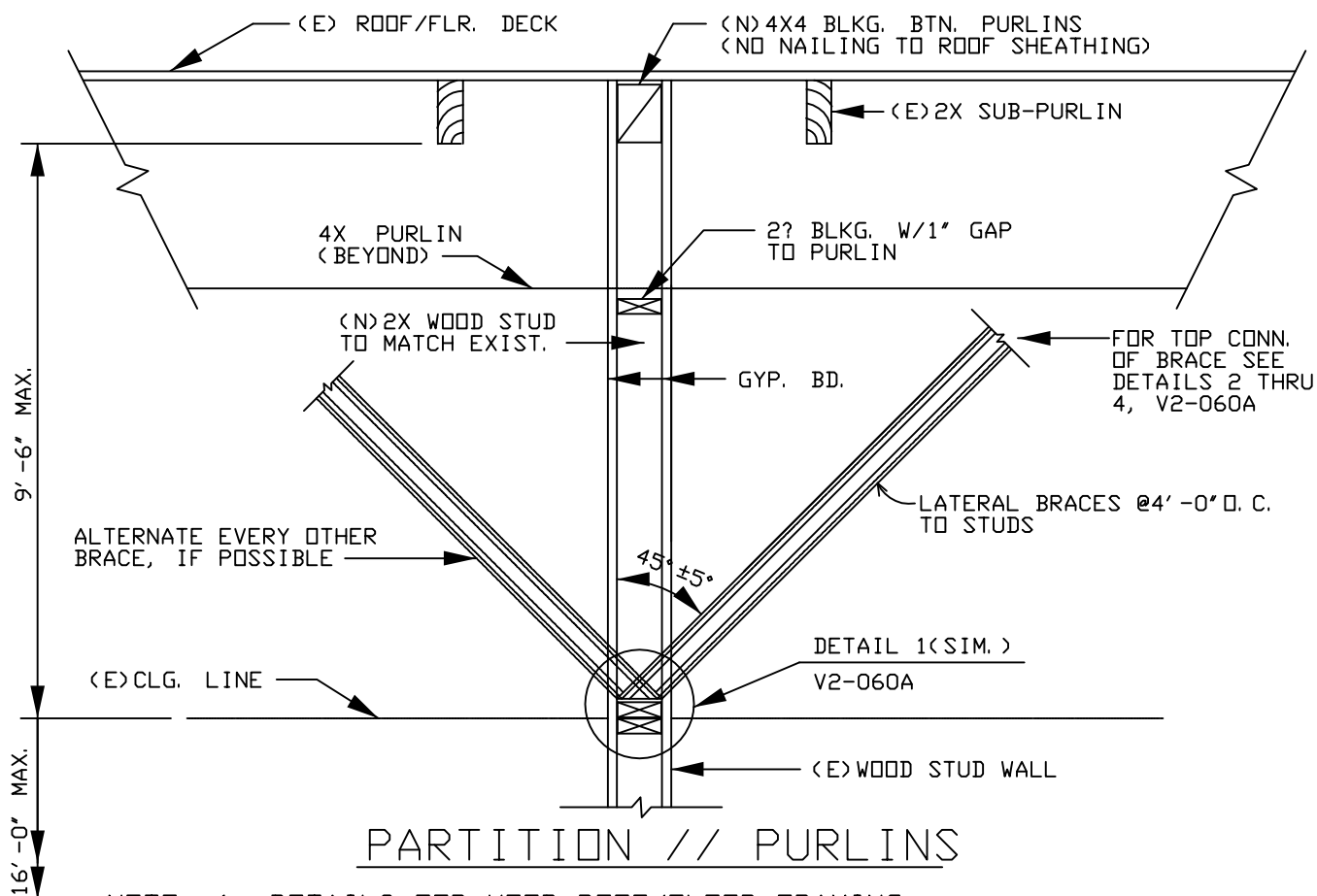
ER NO.

SHT. OF 1



PARTITION ⊥ SUBPURLINS

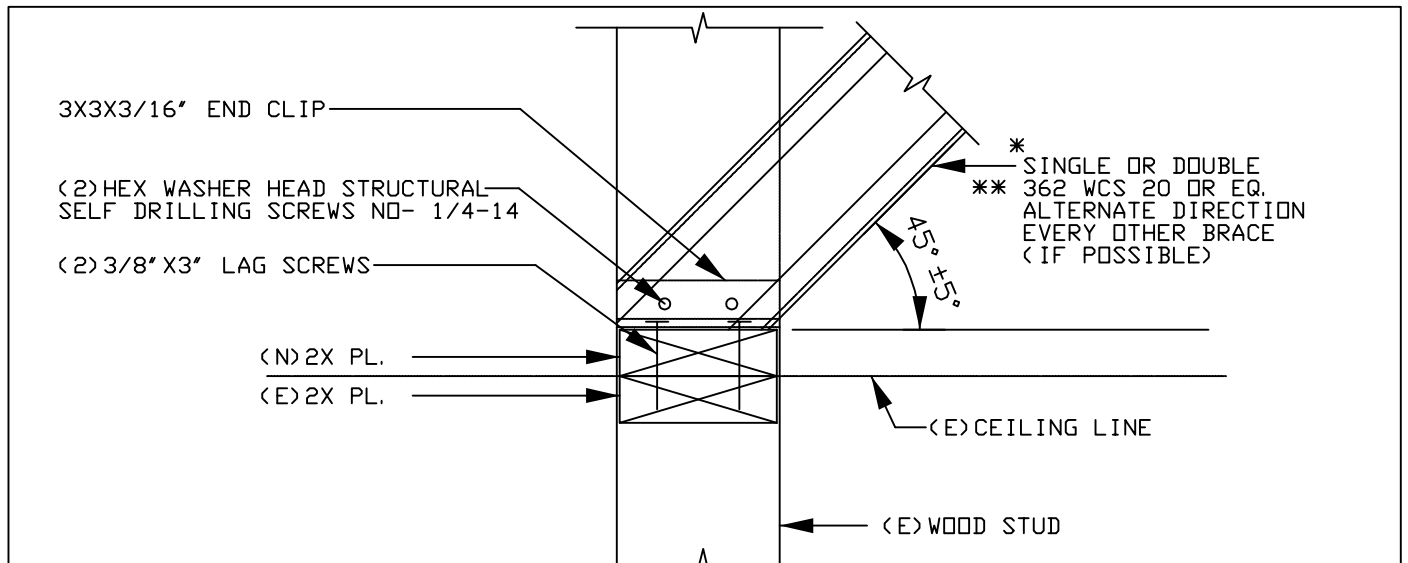
WHERE WALL PASSES DIRECTLY BELOW PURLIN,
ANCHOR RUNNER TO PURLIN.



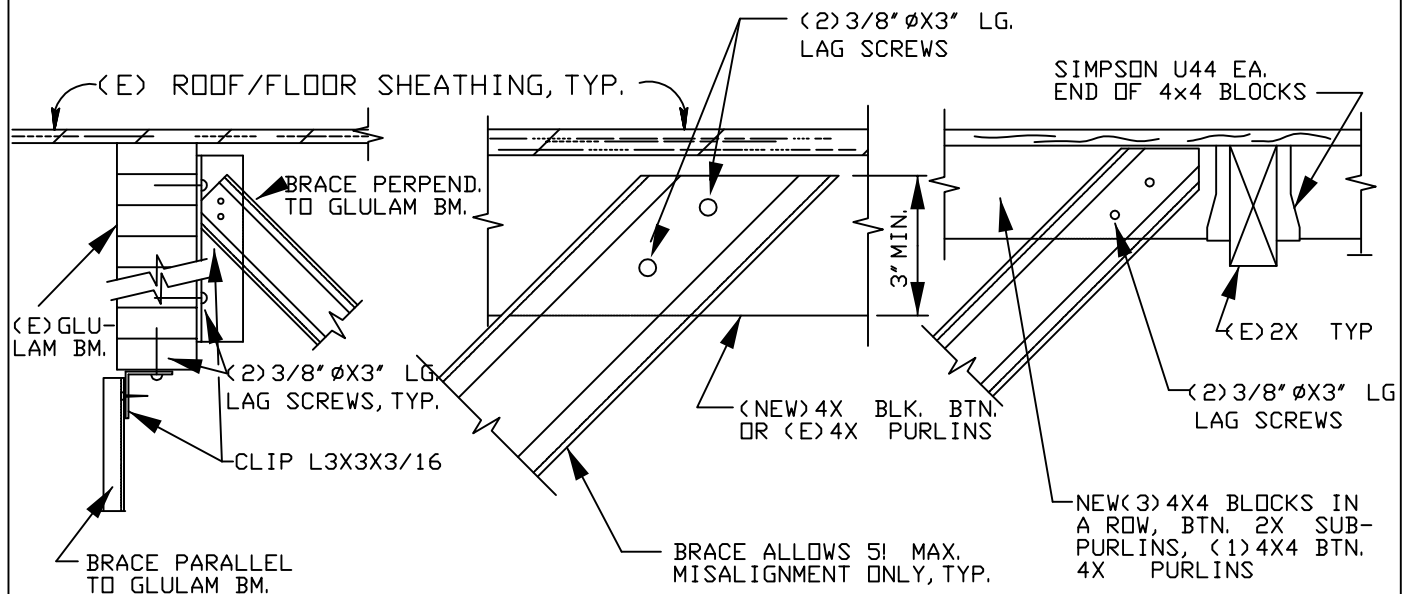
PARTITION // PURLINS

NOTE: 1. DETAILS FOR WOOD ROOF/FLOOR FRAMING
2. THIS SHEET SHALL WORK W/V2-060A.

LOCKHEED MARTIN SPACE SYSTEMS		V2-060		REV. 1
				DATE
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	BERT PALMON	06/25
DWG TITLE: WOOD STUD WALL EXTENDED FROM CLG. TO ROOF/FLOOR		CHECKED		
		APPROVED		
SCALE: NONE	CAD. ID. V2-060.DWG	ER NO.		SHT. OF 1



DETAIL 1
SCALE: 3" = 1' - 0"



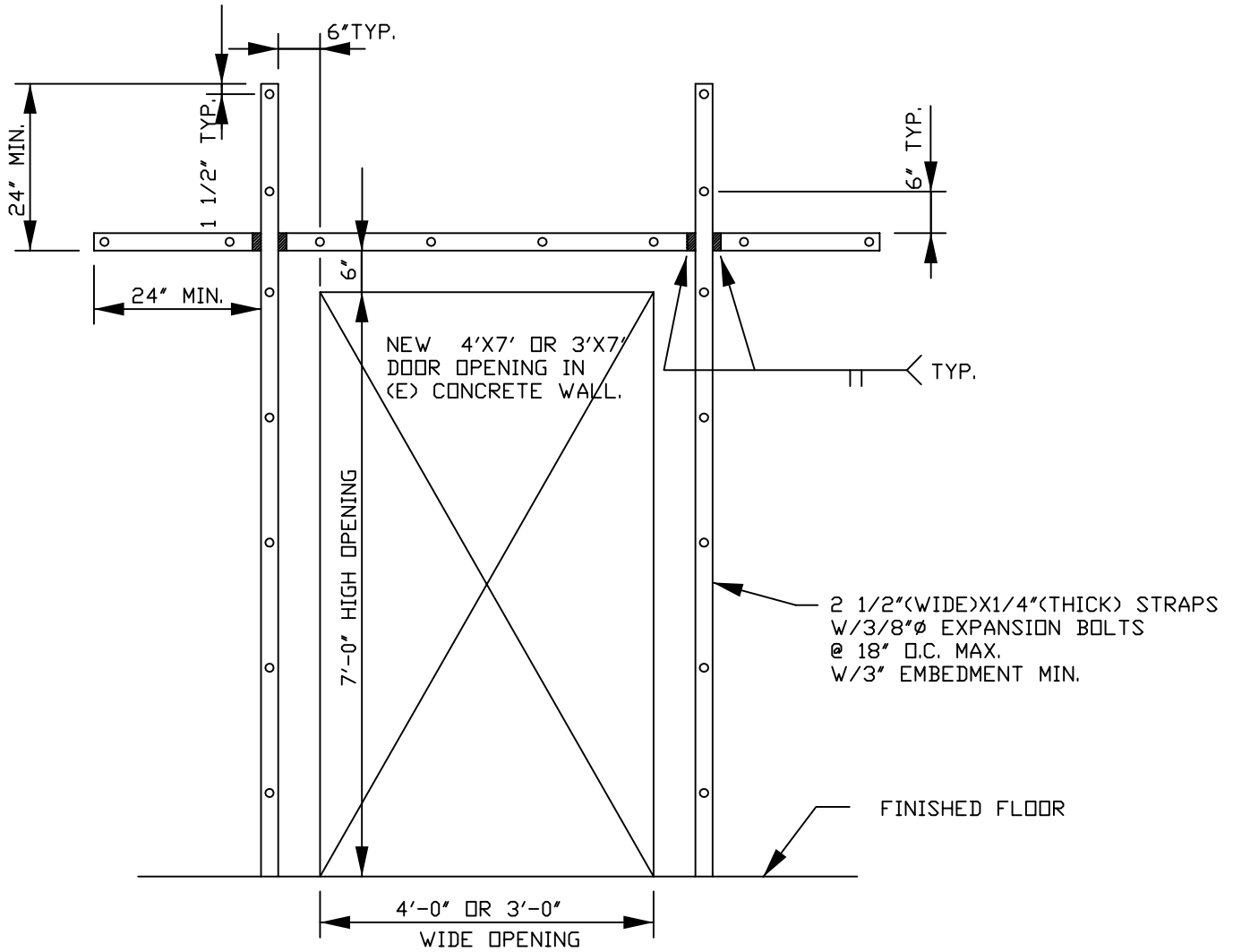
DETAIL 2
SCALE: 1" = 1' - 0"

DETAIL 3
SCALE: 3" = 1' - 0"
(BRACE PARALLEL TO SUB-PURLIN)

DETAIL 4
SCALE: 11-2" = 1' - 0"
(BRACE PERPEND. TO SUB-PURLIN)

NOTE: * (1) 3-5/8X20GA. CEE STUD □ FOR BRACE LENGTH TO 10' - 0" LONG.
 (2) 3-5/8X20GA. CEE STUD □□ FOR BRACE LENGTH TO 13' - 3" LONG.
 (2) 3-5/8X20GA. CEE STUD □□□ FOR BRACE LENGTH TO 13' - 3" LONG.
 ** ADJUST BRACING LOCATIONS TO AVOID EXISTING UTILITIES & INTERFERENCE. THIS SHEET SHALL WORK W/V2-060.

LOCKHEED MARTIN SPACE SYSTEMS		V2-060A		REV. 2
				DATE
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	SILVIA LEE	3/89
DWG TITLE: LATERAL SUPPORT FOR WOOD STUD WALL EXTENSION		CHECKED		
		APPROVED		
SCALE: NONE	CAD. ID. V2-060A.DWG	ER NO.		SHT. OF 1

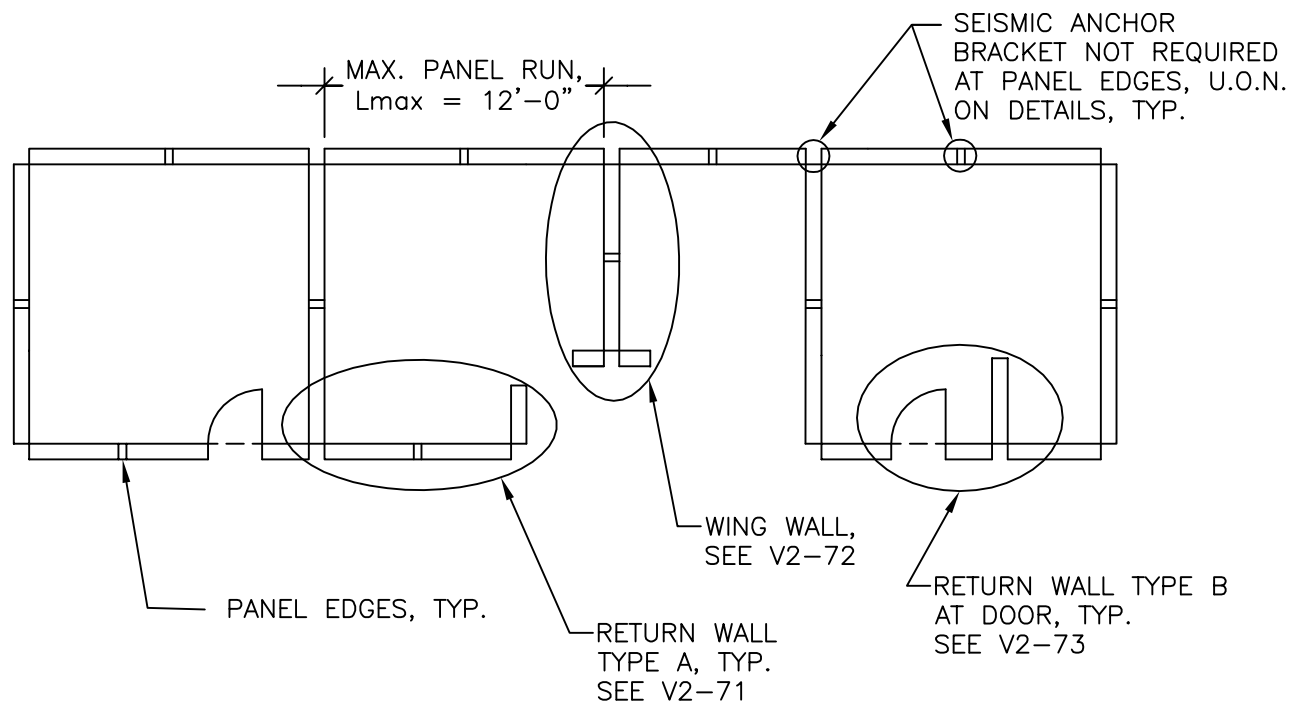


ELEVATION VIEW

NTS

NOTE: INSTALL STEEL FRAMING INSIDE FACE OF WALL PRIOR TO CUTTING DOOR OPENING.

LOCKHEED MARTIN SPACE SYSTEMS		V2-061	REV.
			0
FACILITY SERVICES / ORGN. 45-14		DRAWN G. BRUFMAN	DATE
DWG TITLE: NEW 4'x7' OR 3'x7' DOOR OPENING IN (E) CONCRETE WALL		CHECKED	1-19-93
ALL FACILITIES		APPROVED	
SCALE: NONE	CAD. ID. V2-061.dwg	ER NO.	SHT. OF 1



PLAN

NOTES:

1. THE ABOVE LAYOUT IS HYPOTHETICAL AND IS PROVIDED AS AN EXPAMPLE OF HOW TO APPLY STANDARD DETAILS V2-70, V2-71, V2-72, V2-73, V2-74 AND V2-75 TO PARTITION LAYOUTS.
2. REFER TO DETAILS V2-71, V2-72, V2-73, V2-74, AND V2-75 FOR DIMENSIONS AND ANCHORAGE REQUIREMENTS.

3. DEFINITIONS:

RETURN WALL
TYPE A -


OCCURS AT THE END OF A PANEL RUN PERPENDICULAR TO THE PANEL. A RETURN WALL BUTTS INTO THE PANEL RUN ON ONE SIDE. THE HEIGHT OF RETURN PANELS SHALL BE 6'-10". SEE DETAIL V2-71.

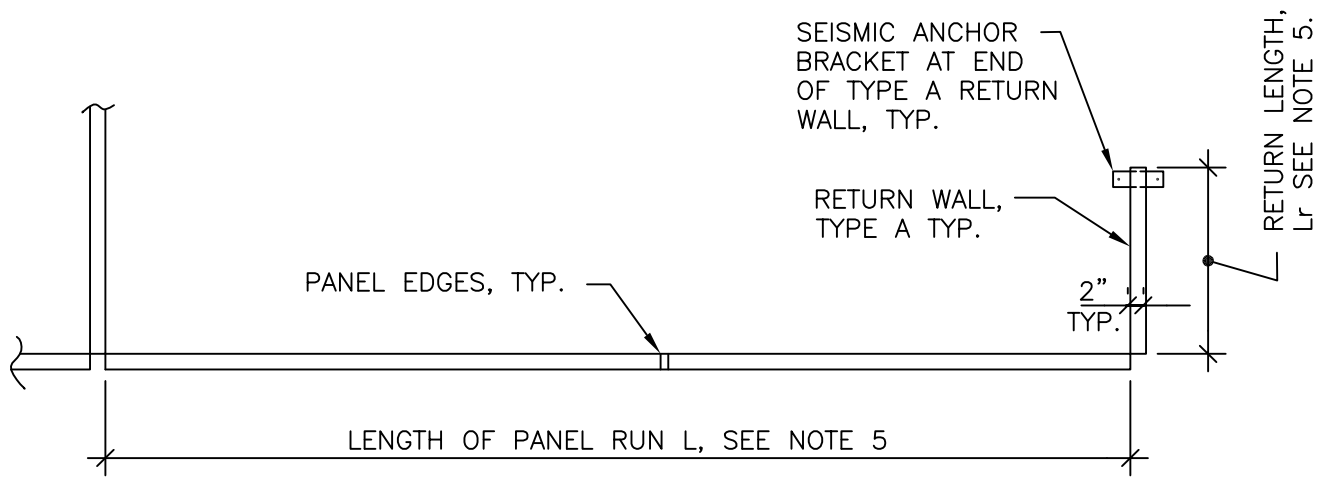
RETURN WALL
TYPE B -

PERPENDICULAR PANEL WALL WHICH INTERSECTS THE PANEL RUN AT THE HINGE SIDE OF THE DOOR. THE HEIGHT OF FREE END WALLS SHALL BE 6'-10". SEE DETAIL V2-73.

WING WALL -

CROSSES A PANEL AT THE END OF A PANEL RUN. THE HEIGHT OF WING WALLS MAY VARY, SEE DETAIL V2-72.

<div>PROPRIETARY DATA-EXTERNAL</div> <div>THIS DOCUMENT SHALL NOT BE REPRODUCED NOR SHALL THE INFORMATION CONTAINED HEREIN BE USED BY OR DISCLOSED TO OTHERS EXCEPT AS EXPRESSLY AUTHORIZED BY LOCKHEED MARTIN MISSILES & SPACE, INC., A UNIT OF LOCKHEED MARTIN CORPORATION.</div> <div>PROPRIETARY DATA-INTERNAL</div> <div>THIS DOCUMENT EITHER IN HARDCOPY OR ELECTRONIC FORMAT, SHALL NOT BE REPRODUCED, REVISED, MODIFIED OR DISTRIBUTED BY ANY LOCKHEED MARTIN ORGANIZATION, WITHOUT THE SPECIFIC AUTHORIZATION FROM FACILITIES RECORDS CONTROL.</div>	<div>LOCKHEED MARTIN</div> <div>Space Systems</div> <div></div>	<div>V2-70</div>	REV.
			DATE
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN IEC	11/21/05
DWG TITLE: EXAMPLE PARTITION LAYOUT		CHECKED	
		APPROVED	
SCALE: N.T.S.	CAD. ID.	ER NO.	SHT. V2-70 OF




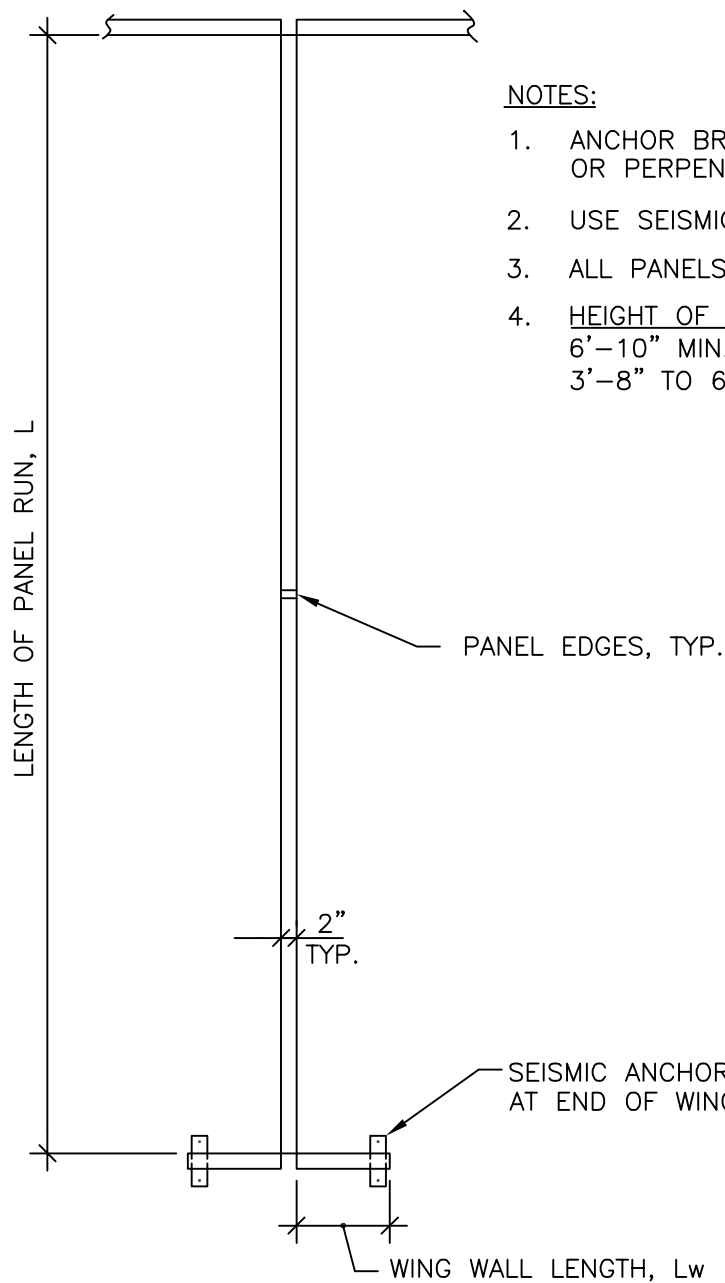
PLAN

NOTES:

1. ANCHOR BRACKET MAY BE ORIENTED PARALLEL OR PERPENDICULAR TO PANEL, TYP.
2. USE SEISMIC ANCHOR BRACKET BY HAWORTH.
3. ALL PANELS ARE FULL HEIGHT, $H = 6'-10"$, U.O.N.
4. ALL RETURN WALLS MUST BE THE SAME HEIGHT AS PANEL RUN.

<u>LENGTH OF RUN, L</u>	<u>RETURN LENGTH, Lr</u>
2'-0" TO 8'-0"	30" MIN.
8'-6" TO 10'-0"	36" MIN.
10'-6" TO 12'-0" MAX.	42" MIN.

<div>PROPRIETARY DATA-EXTERNAL</div> <div>THIS DOCUMENT SHALL NOT BE REPRODUCED NOR SHALL THE INFORMATION CONTAINED HEREIN BE USED BY OR DISCLOSED TO OTHERS EXCEPT AS EXPRESSLY AUTHORIZED BY LOCKHEED MARTIN MISSILES & SPACE, INC., A UNIT OF LOCKHEED MARTIN CORPORATION.</div> <div>PROPRIETARY DATA-INTERNAL</div> <div>THIS DOCUMENT EITHER IN HARDCOPY OR ELECTRONIC FORMAT, SHALL NOT BE REPRODUCED, REVISED, MODIFIED OR DISTRIBUTED BY ANY LOCKHEED MARTIN ORGANIZATION, WITHOUT THE SPECIFIC AUTHORIZATION FROM FACILITIES RECORDS CONTROL.</div>	<div>LOCKHEED MARTIN</div> <div>SPACE SYSTEMS</div> <div></div>	<div>V2-71</div>	REV.
			DATE
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN IEC	11/21/05
DWG TITLE: PLAN VIEW OF PANEL LAYOUT 2		CHECKED	
		APPROVED	
SCALE: 1/2" = 1'-0"	CAD. ID.	ER NO.	SHT. V2-71 OF




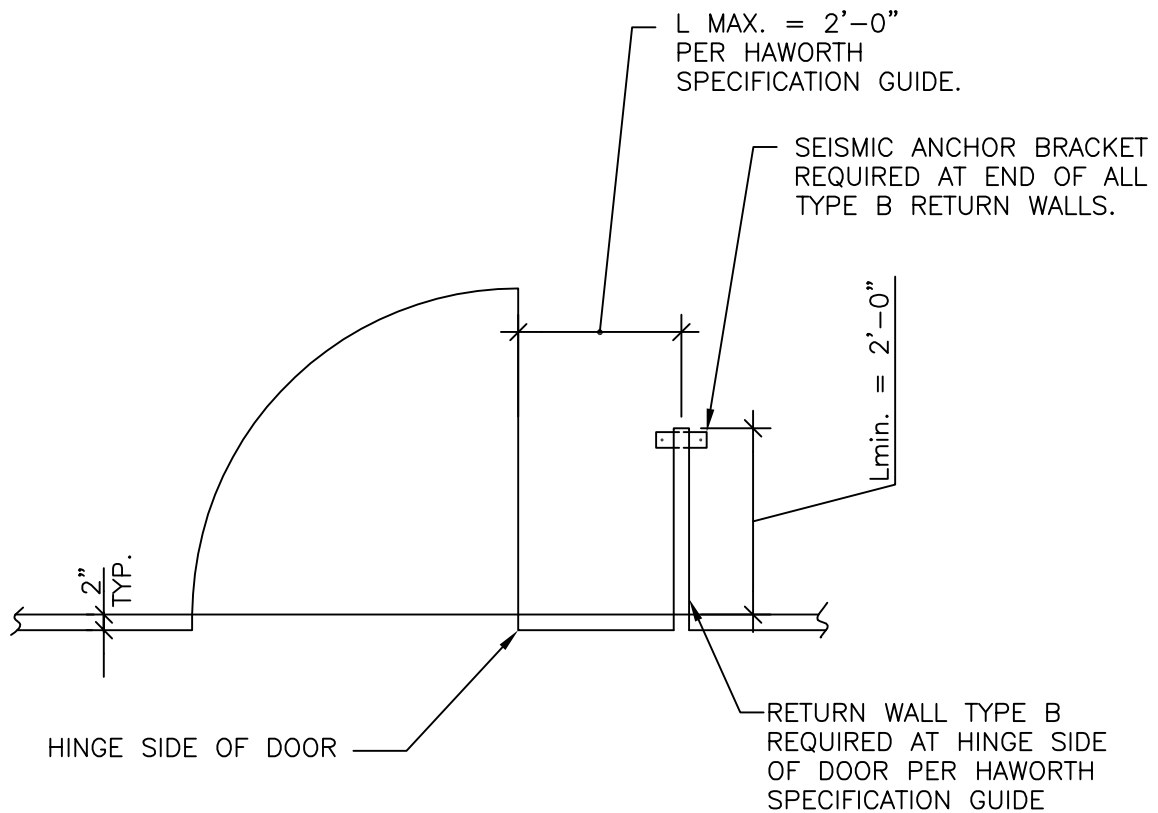
NOTES:

1. ANCHOR BRACKET MAY BE ORIENTED PARALLEL OR PERPENDICULAR TO PANEL, TYP.
2. USE SEISMIC ANCHOR BRACKET BY HAWORTH.
3. ALL PANELS ARE FULL HEIGHT, $H = 6'-10"$, U.O.N.
4.

<u>HEIGHT OF WING WALL</u>	<u>WING WALL LENGTH, L_w</u>
6'-10" MIN.	1'-0" MIN.
3'-8" TO 6'-10"	1'-6" MIN.

PLAN


<div>PROPRIETARY DATA-EXTERNAL</div> <div>THIS DOCUMENT SHALL NOT BE REPRODUCED NOR SHALL THE INFORMATION CONTAINED HEREIN BE USED BY OR DISCLOSED TO OTHERS EXCEPT AS EXPRESSLY AUTHORIZED BY LOCKHEED MARTIN MISSILES & SPACE, INC., A UNIT OF LOCKHEED MARTIN CORPORATION.</div> <div>PROPRIETARY DATA-INTERNAL</div> <div>THIS DOCUMENT EITHER IN HARDCOPY OR ELECTRONIC FORMAT, SHALL NOT BE REPRODUCED, REVISED, MODIFIED OR DISTRIBUTED BY ANY LOCKHEED MARTIN ORGANIZATION, WITHOUT THE SPECIFIC AUTHORIZATION FROM FACILITIES RECORDS CONTROL.</div>		<div>LOCKHEED MARTIN</div> <div>SPACE SYSTEMS</div> <div></div>		<div>V2-72</div>		REV.
						DATE
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S				DRAWN	IEC	11/21/05
DWG TITLE: PLAN VIEW OF PANEL LAYOUT 1				CHECKED		
				APPROVED		
SCALE: 1/2" = 1'-0"		CAD. ID.		ER NO.		SHT. V2-72 OF

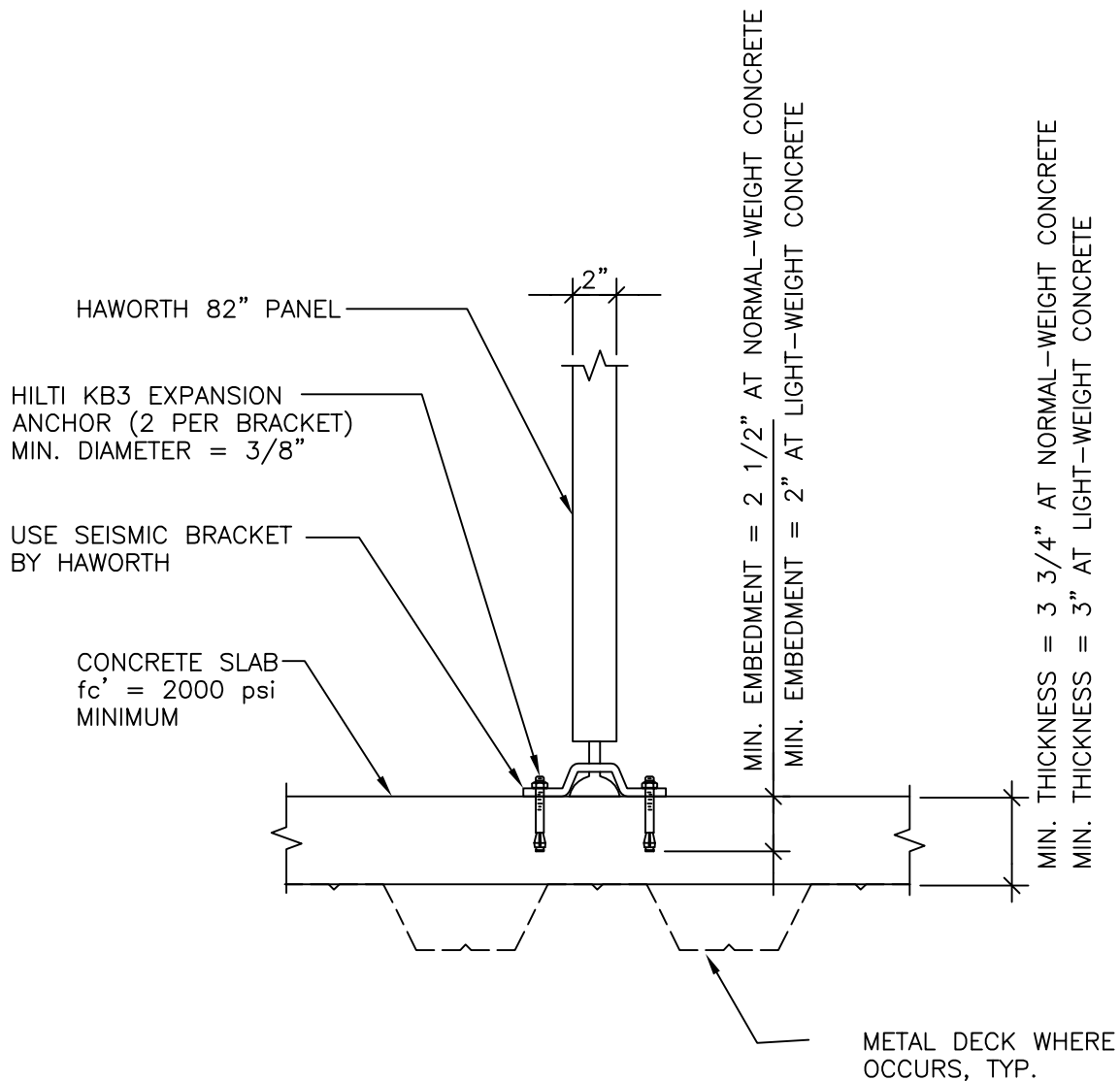


PLAN

NOTES:


1. ANCHOR BRACKET MAY BE ORIENTED PARALLEL OR PERPENDICULAR TO PANEL, TYP.
2. USE SEISMIC ANCHOR BRACKET BY HAWORTH.
3. ALL PANELS ARE FULL HEIGHT, $H = 6'-10"$, U.O.N.

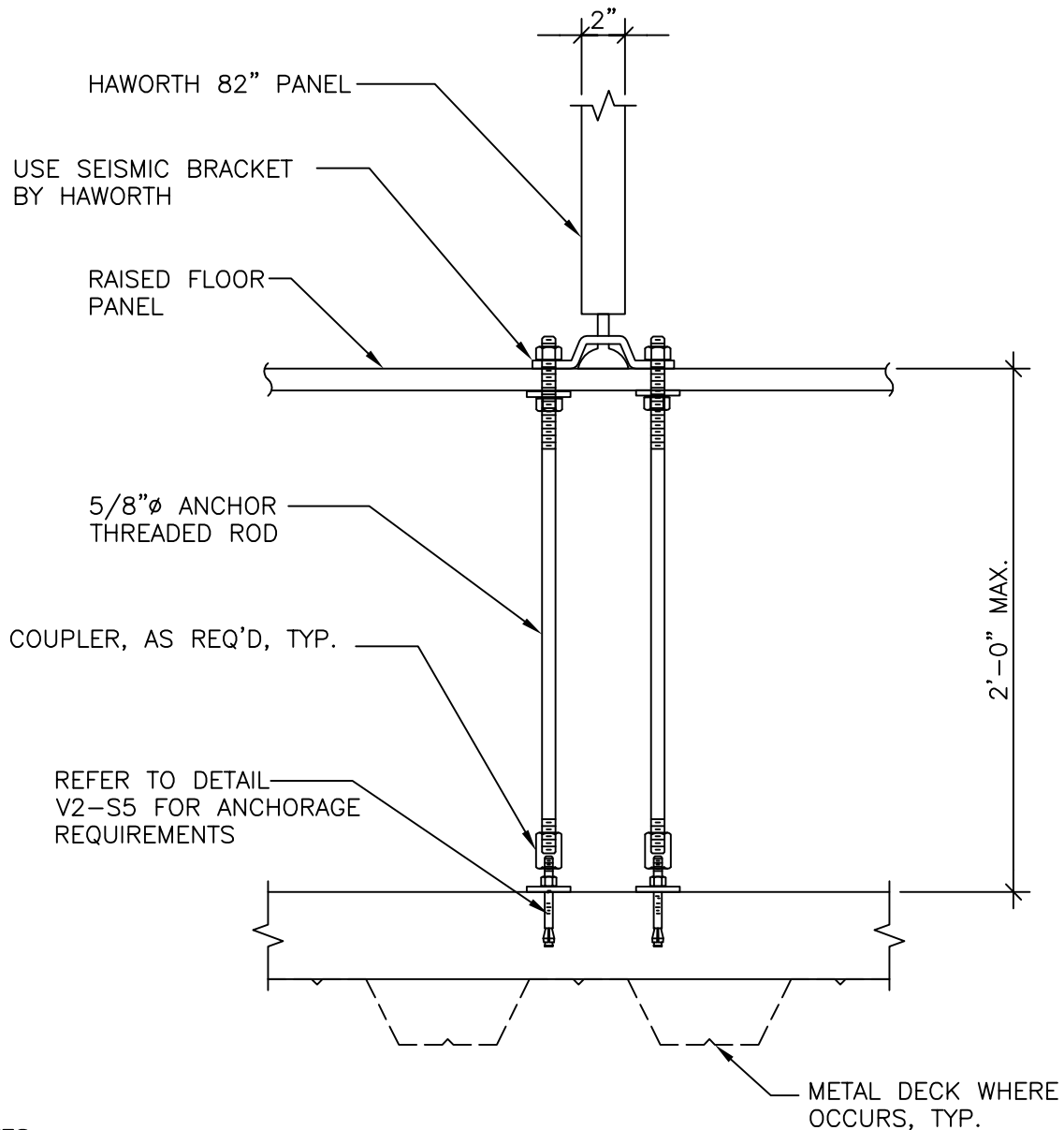
<div>PROPRIETARY DATA-EXTERNAL</div> <div>THIS DOCUMENT SHALL NOT BE REPRODUCED NOR SHALL THE INFORMATION CONTAINED HEREIN BE USED BY OR DISCLOSED TO OTHERS EXCEPT AS EXPRESSLY AUTHORIZED BY LOCKHEED MARTIN MISSILES & SPACE, INC., A UNIT OF LOCKHEED MARTIN CORPORATION.</div> <div>PROPRIETARY DATA-INTERNAL</div> <div>THIS DOCUMENT EITHER IN HARDCOPY OR ELECTRONIC FORMAT, SHALL NOT BE REPRODUCED, REVISED, MODIFIED OR DISTRIBUTED BY ANY LOCKHEED MARTIN ORGANIZATION, WITHOUT THE SPECIFIC AUTHORIZATION FROM FACILITIES RECORDS CONTROL.</div>	<div>LOCKHEED MARTIN</div> <div>SPACE SYSTEMS</div> <div></div>	<div>V2-73</div>	REV.
			DATE
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN IEC	11/21/05
DWG TITLE: PLAN VIEW OF PANEL LAYOUT 3		CHECKED	
		APPROVED	
SCALE: 1/2" = 1'-0"	CAD. ID.	ER NO.	SHT. V2-73 OF



NOTES:


1. ANCHOR BOLTS SHALL BE EITHER CARBON STEEL OR STAINLESS STEEL.
2. FOR ANCHOR DIAMETERS LESS THAN $\frac{5}{8}"\phi$, PROVIDE AN ADDITIONAL WASHER THAT HAS AN OUTSIDE DIAMETER OF $1 \frac{5}{16}"$ BELOW THE TYPICAL WASHER FOR THAT SIZE BOLT.
3. ANCHOR BRACKET MAY BE ORIENTED PARALLEL OR PERPENDICULAR TO PANEL.

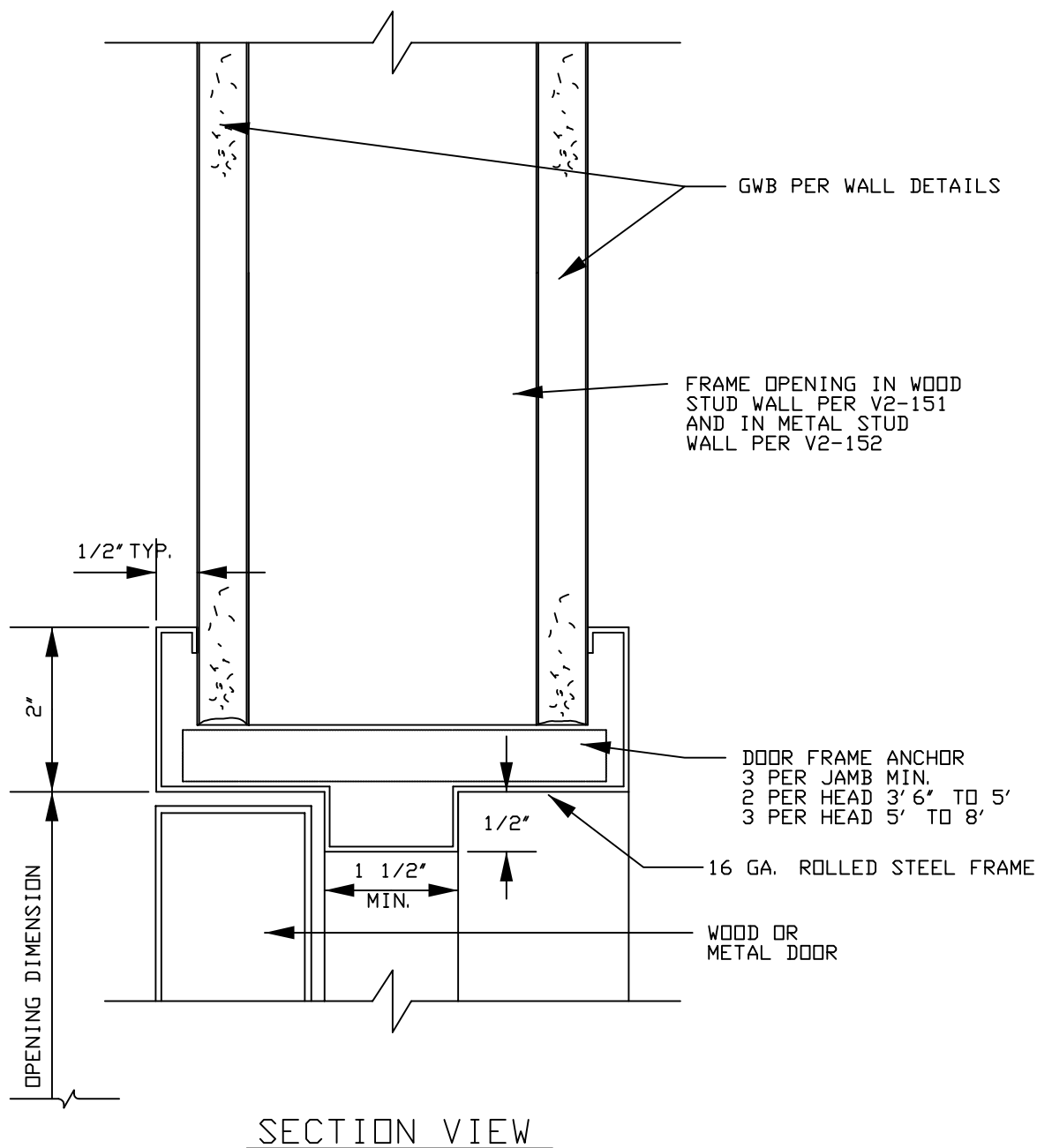
<div>PROPRIETARY DATA-EXTERNAL THIS DOCUMENT SHALL NOT BE REPRODUCED NOR SHALL THE INFORMATION CONTAINED HEREIN BE USED BY OR DISCLOSED TO OTHERS EXCEPT AS EXPRESSLY AUTHORIZED BY LOCKHEED MARTIN MISSILES & SPACE, INC., A UNIT OF LOCKHEED MARTIN CORPORATION.</div> <div>PROPRIETARY DATA-INTERNAL THIS DOCUMENT EITHER IN HARDCOPY OR ELECTRONIC FORMAT, SHALL NOT BE REPRODUCED, REVISED, MODIFIED OR DISTRIBUTED BY ANY LOCKHEED MARTIN ORGANIZATION, WITHOUT THE SPECIFIC AUTHORIZATION FROM FACILITIES RECORDS CONTROL.</div>		<div>LOCKHEED MARTIN SPACE SYSTEMS</div> <div></div> <div>V2-74</div>		REV.
				DATE
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	IEC	11/21/05
DWG TITLE: SEISMIC ANCHORAGE OF 82" HAWORTH PANEL		CHECKED		
		APPROVED		
SCALE: 1 1/2" = 1'-0"	CAD. ID.	ER NO.		SHT. V2-74 OF



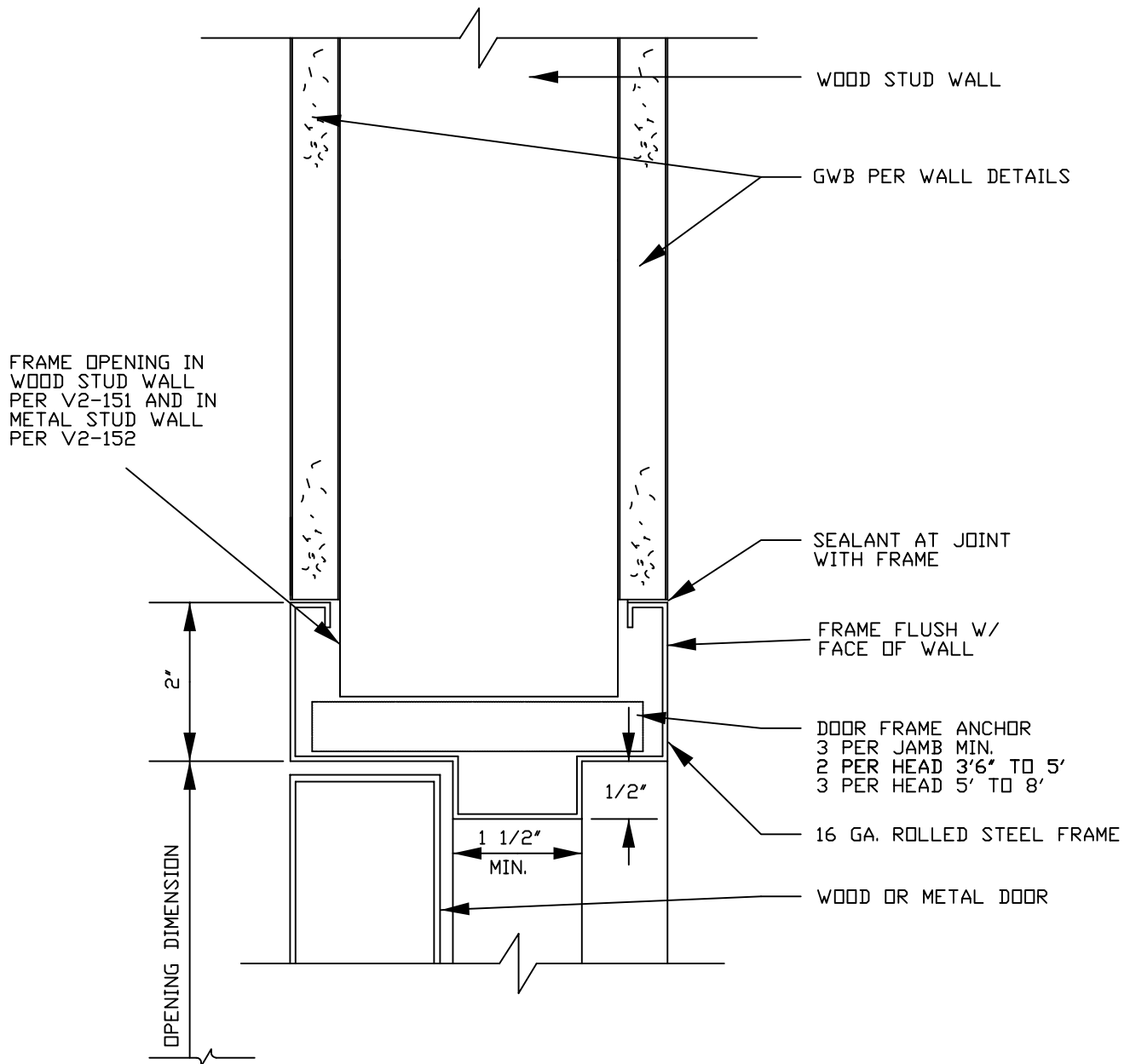
NOTES:

1. ANCHOR BOLTS SHALL BE EITHER CARBON STEEL OR STAINLESS STEEL.
2. FOR ANCHOR DIAMETERS LESS THAN 5/8" ϕ , PROVIDE AN ADDITIONAL WASHER THAT HAS AN OUTSIDE DIAMETER OF 1 5/16" BELOW THE TYPICAL WASHER FOR THAT SIZE BOLT.
3. ANCHOR BRACKET MAY BE ORIENTED PARALLEL OR PERPENDICULAR TO PANEL.

<div>PROPRIETARY DATA-EXTERNAL THIS DOCUMENT SHALL NOT BE REPRODUCED NOR SHALL THE INFORMATION CONTAINED HEREIN BE USED BY OR DISCLOSED TO OTHERS EXCEPT AS EXPRESSLY AUTHORIZED BY LOCKHEED MARTIN MISSILES & SPACE, INC., A UNIT OF LOCKHEED MARTIN CORPORATION.</div> <div>PROPRIETARY DATA-INTERNAL THIS DOCUMENT EITHER IN HARDCOPY OR ELECTRONIC FORMAT, SHALL NOT BE REPRODUCED, REVISED, MODIFIED OR DISTRIBUTED BY ANY LOCKHEED MARTIN ORGANIZATION, WITHOUT THE SPECIFIC AUTHORIZATION FROM FACILITIES RECORDS CONTROL.</div>		<div>LOCKHEED MARTIN SPACE SYSTEMS</div> <div></div> <div>V2-75</div>		<div>REV.</div> <div>DATE</div>
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	IEC	11/21/05
DWG TITLE: SEISMIC ANCHORAGE OF 82" HAWORTH PANEL		CHECKED		
TO RAISED FLOOR		APPROVED		
SCALE: 1 1/2" = 1'-0"	CAD. ID.	ER NO.		SHT. V2-75 OF



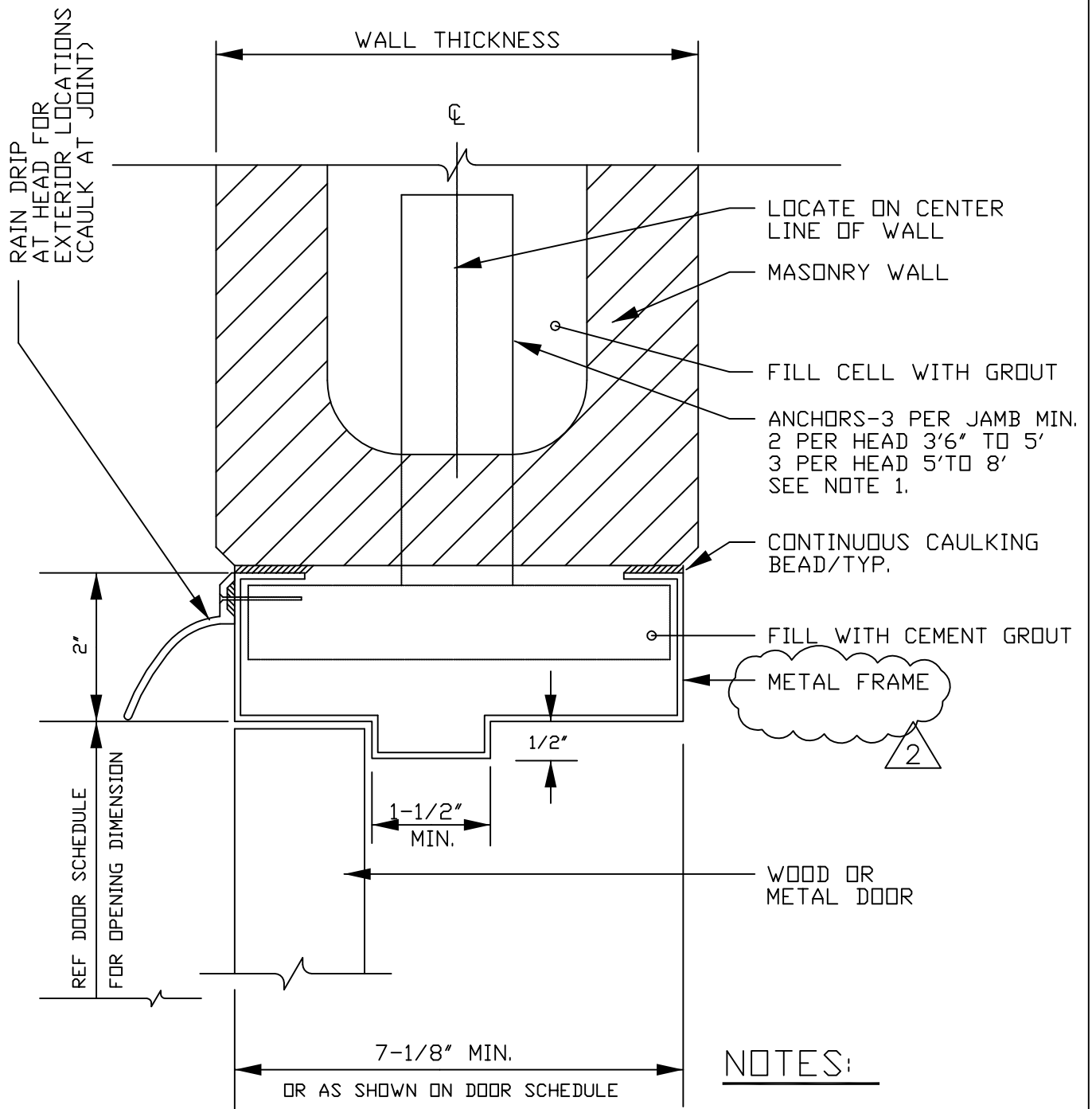
LOCKHEED MARTIN SPACE SYSTEMS		V2-102	REV. 2
			DATE
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	2-88
DWG TITLE: STANDARD METAL DOOR FRAME IN DRYWALL CONSTRUCTION		CHECKED	
ALL FACILITIES		APPROVED	
SCALE: NONE	CAD. ID. V2-102.DWG	ER NO.	SHT. OF 1



SECTION VIEW

(FOR CLEAN ROOM APPLICATIONS, CLASS 1000-100,000).

LOCKHEED MARTIN SPACE SYSTEMS		V2-102A	REV.
			3
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	DATE
DWG TITLE: DOOR FRAME IN DRYWALL CONSTRUCTION FLUSH W/FACE OF WALL		CHECKED	1-88
ALL FACILITIES		APPROVED	
SCALE: NONE	CAD. ID. V2-102A.DWG	ER NO.	SHT. OF 1

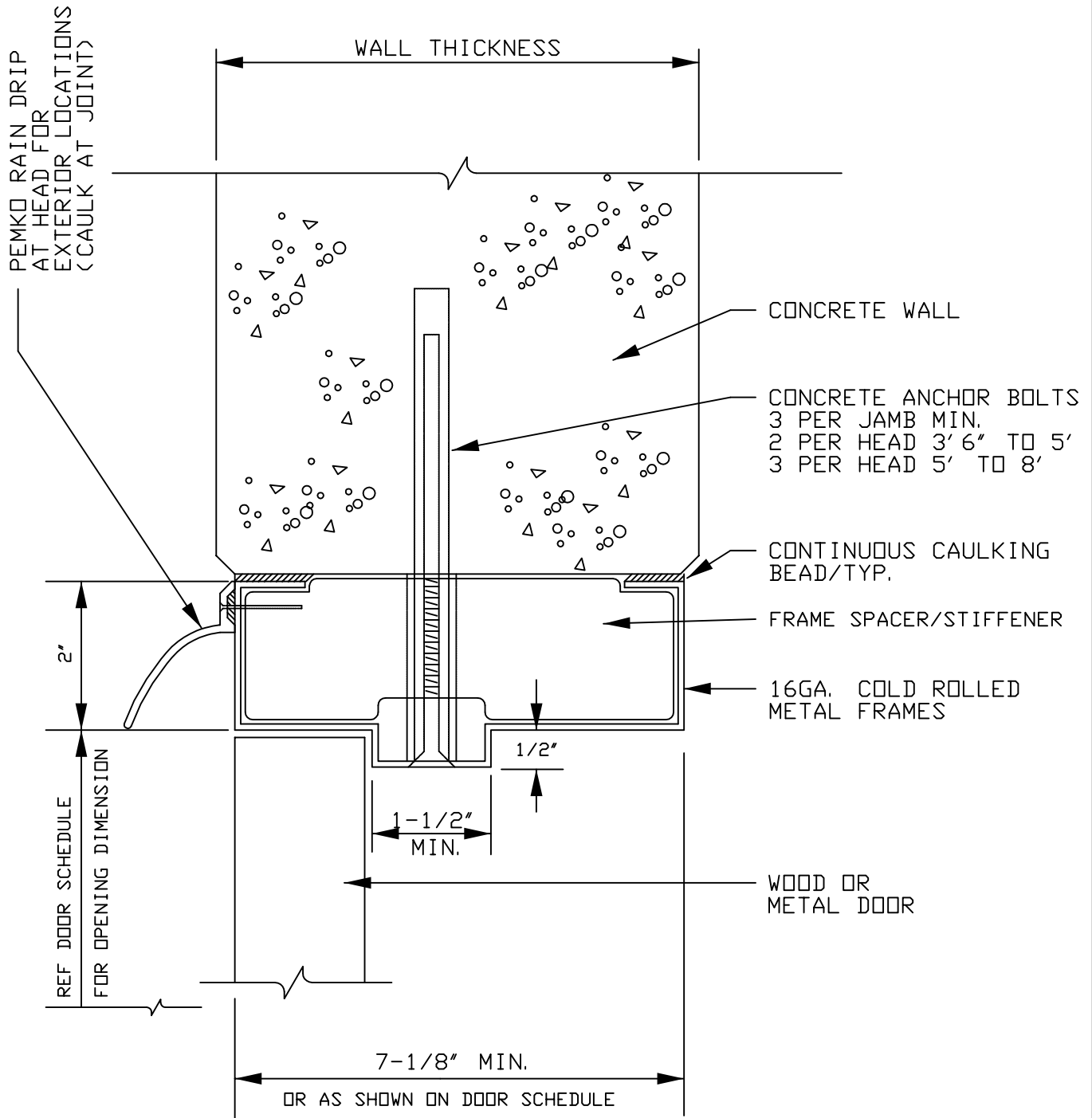


SECTION VIEW
HALF SCALE

NOTES:

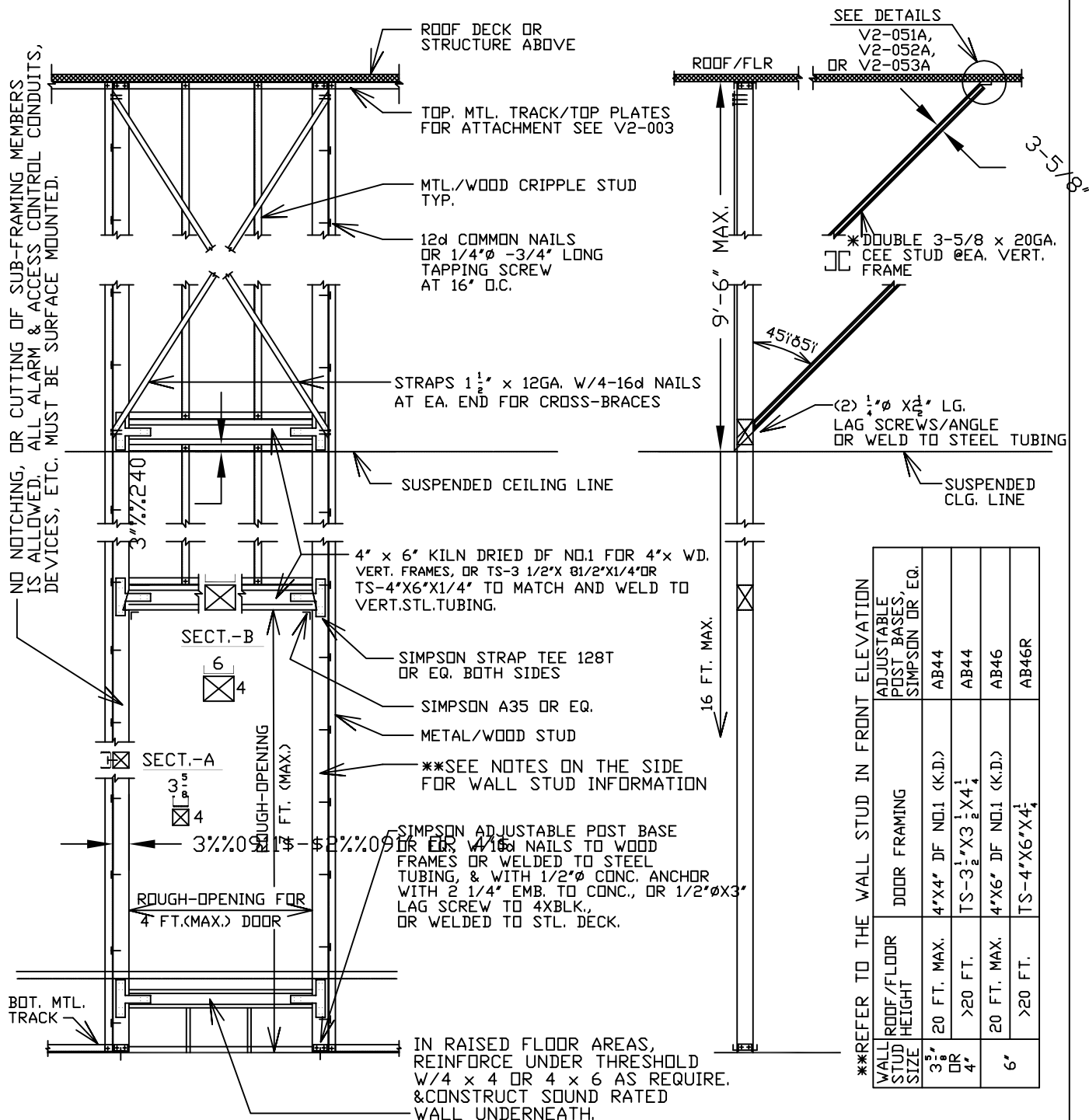
1. FOR EXISTING LOCATIONS
USE MASONRY ANCHOR BOLTS
3 PER JAMB MIN
2 PER HEAD 3'6" TO 5'
3 PER 5' TO 8'

LOCKHEED MARTIN SPACE SYSTEMS		V2-108	REV.
			2
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	DATE
DWG TITLE: HEAD & JAMB FOR METAL DOOR FRAME IN MASONRY WALL		CHECKED	2-88
ALL FACILITIES		APPROVED	
SCALE: HALF	CAD. ID. V2-108.DWG	ER NO.	SHT. OF



SECTION VIEW
HALF SCALE

LOCKHEED MARTIN SPACE SYSTEMS		V2-109	REV. 1
			DATE 2-88
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	
DWG TITLE: HEAD & JAMB FORM METAL DOOR FRAME IN CONCRETE WALL		CHECKED	
ALL FACILITIES		APPROVED	
SCALE: HALF	CAD. ID. V2-109.dwg	ER NO.	SHT. OF 1



FRONT ELEVATION

SIDE ELEVATION/SECTION

- NOTE: 1. 2 CEE STUDS 3-5/8" x 20GA. FOR BRACE LENGTH TO 13'-3" LONG
CONNECT 2 CEE STUDS, SPOT WELDS @2 FT. O.C.
2. THIS SHEET SHALL WORK W/V2-051A, 052A, OR 053A.

LOCKHEED MARTIN
SPACE SYSTEMS

V2-150

REV.
3

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN S.LEE

8/90

DWG TITLE: 45db OR 50db SOUND RETARDANT DR. SUB-FRMAING

CHECKED

(MTL/WD STUD WALL)

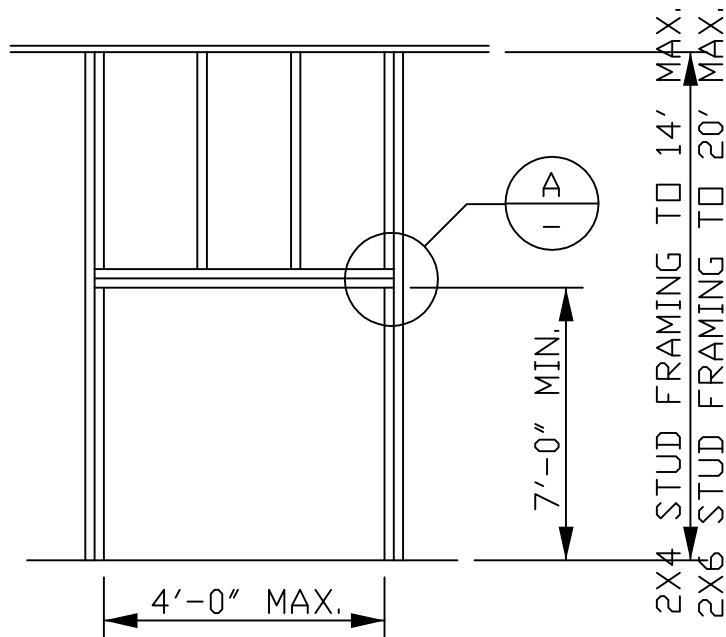
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SCALE: NONE

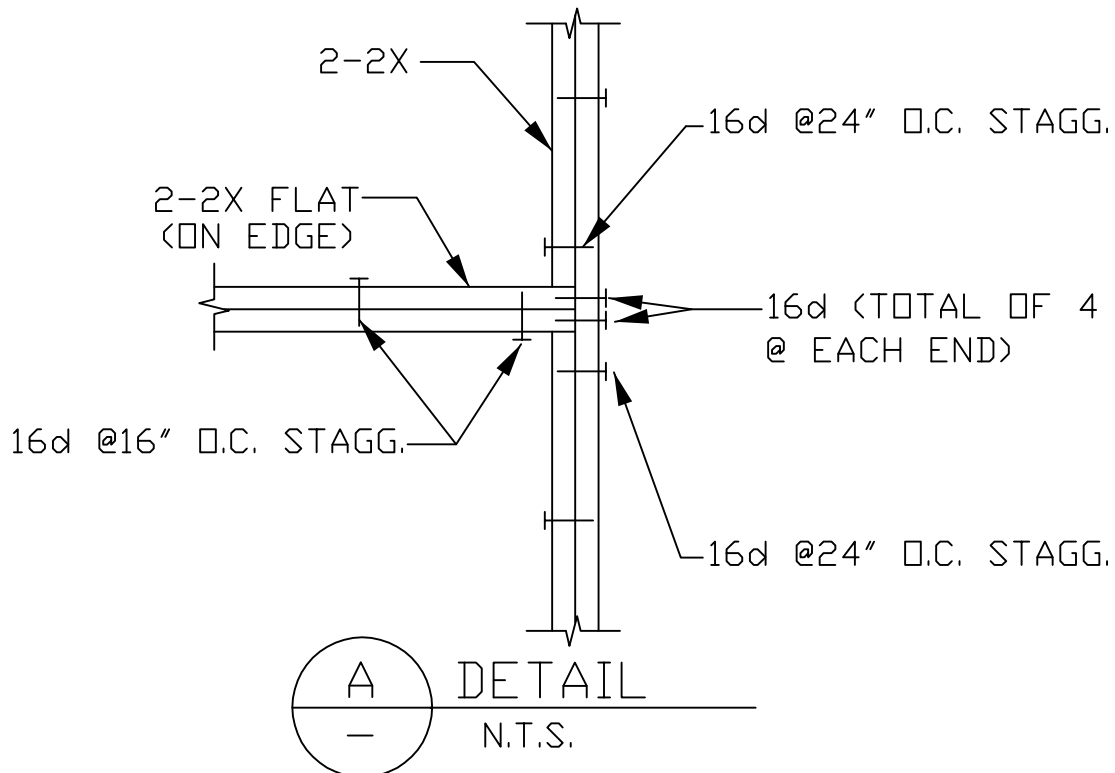
CAD. ID. V2-150.DWG

ER NO.

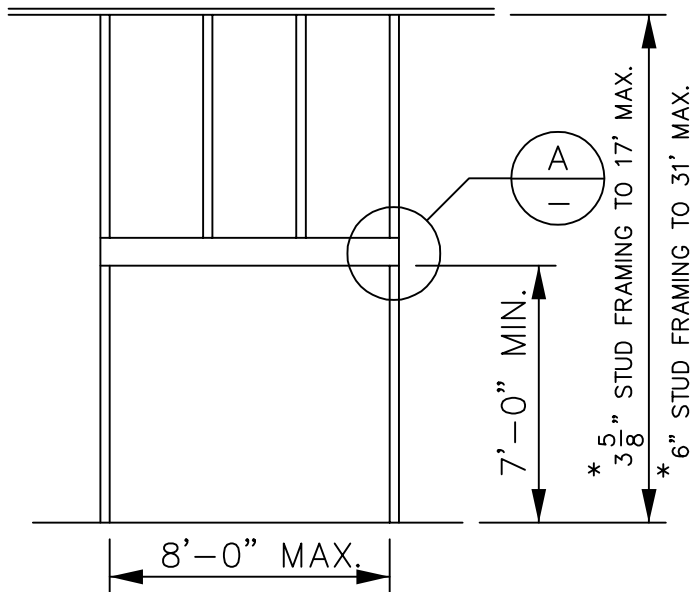
SHT. OF 1



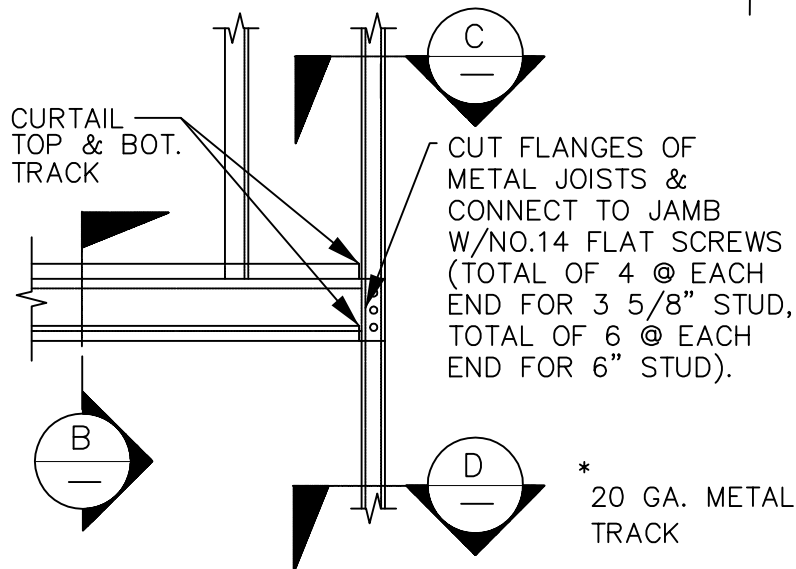
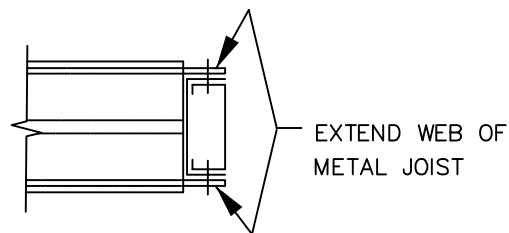
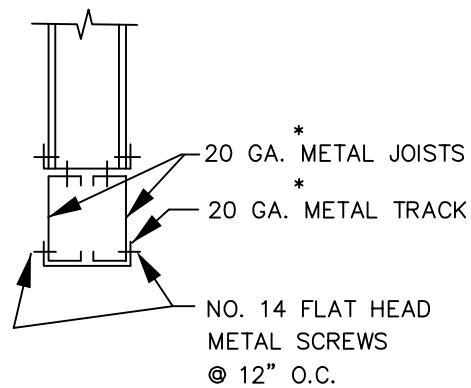
TYPICAL DOOR FRAMING ELEVATION NON-BEARING WOOD STUD WALLS



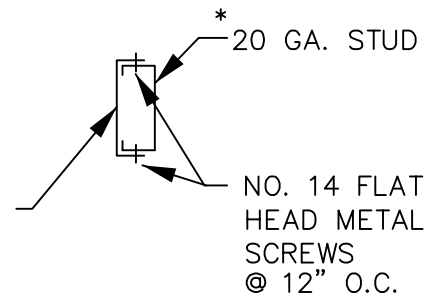
LOCKHEED MARTIN SPACE SYSTEMS		V2-151		REV.
				2
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	SANTOS	DATE
DWG TITLE: WOOD 3'X OR 4'X STANDARD DOOR FRAMING DETAILS		CHECKED		
ALL FACILITIES		APPROVED		
SCALE: NONE	CAD. ID. V2-151.dwg	ER NO.		SHT. OF 1



TYPICAL DOOR FRAMING ELEVATION
NON-BEARING METAL STUD WALLS



* 20 GA. METAL TRACK



LOCKHEED MARTIN
SPACE SYSTEMS



V2-152

REV.

3

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN G.BRUFMAN

09-16-92

DWG TITLE: METAL 3' TO 8' STANDARD DOOR FRAMING DETAILS

CHECKED

ALL FACILITIES

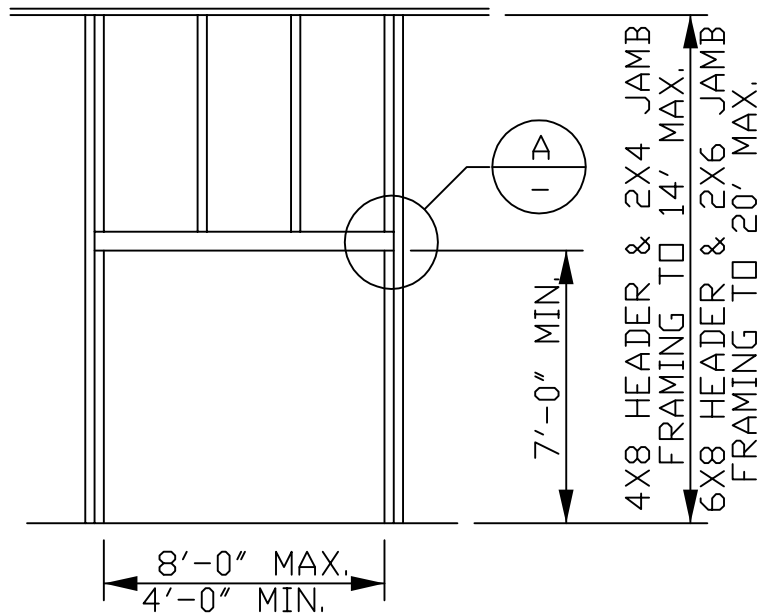
APPROVED

SCALE: NONE

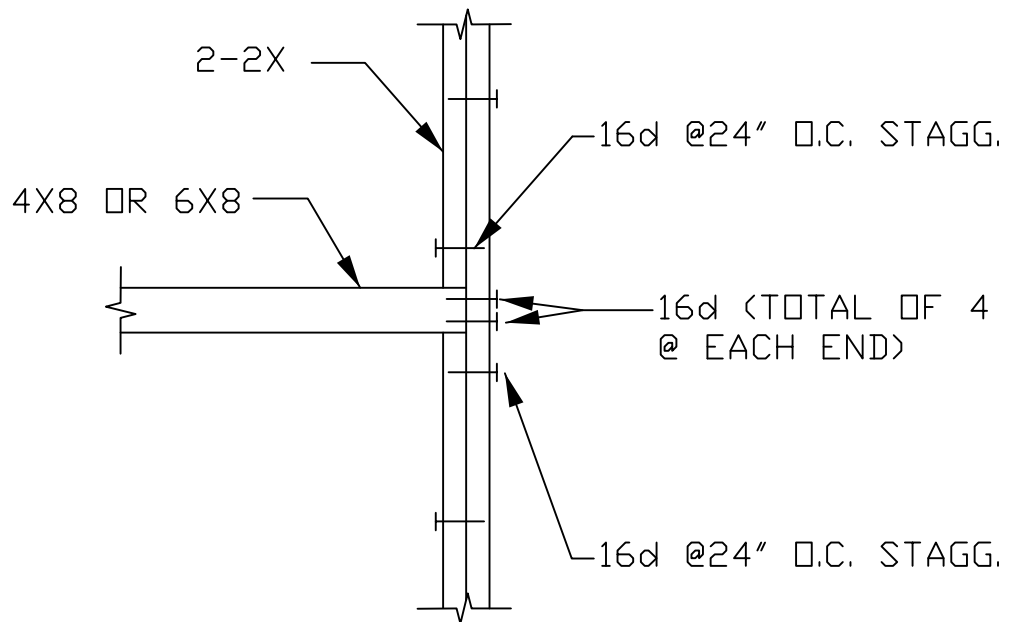
CAD. ID. V2-152.dwg

ER NO.

SHT. OF 1

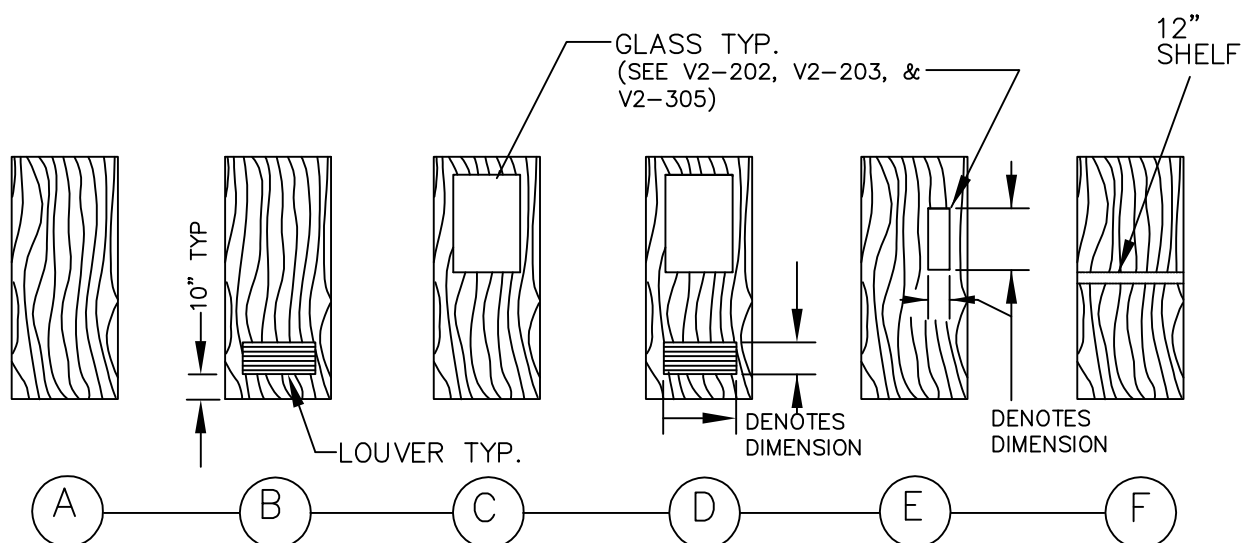


TYPICAL DOOR FRAMING ELEVATION NON-BEARING WOOD STUD WALLS

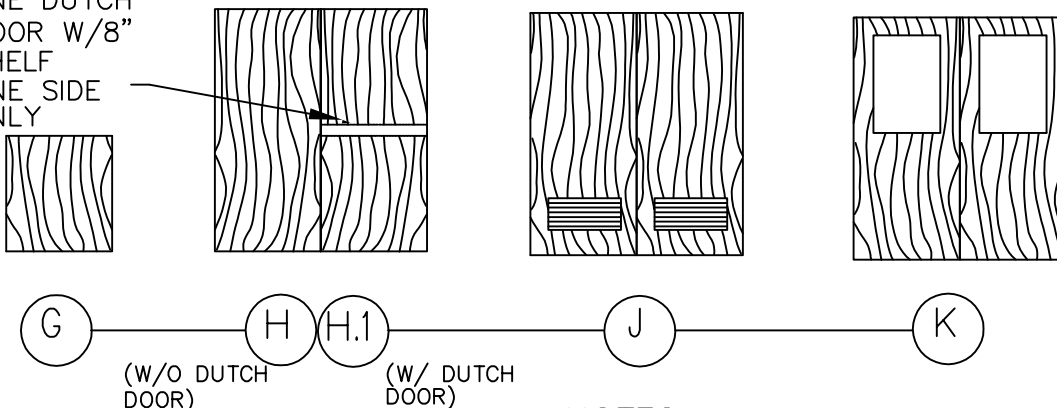


A
—
DETAIL
N.T.S.

LOCKHEED MARTIN SPACE SYSTEMS		V2-153		REV.
				0
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	SANTOS	DATE
DWG TITLE: WOOD 4' TO 8' STANDARD DOOR FRAMING DETAILS		CHECKED		
ALL FACILITIES		APPROVED		
SCALE: NONE	CAD. ID. V2-153.dwg	ER NO.		SHT. OF 1

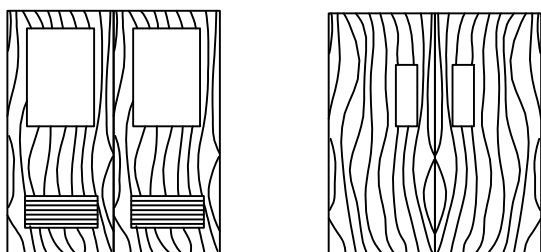


ONE DUTCH
DOOR W/8"
SHELF
ONE SIDE
ONLY



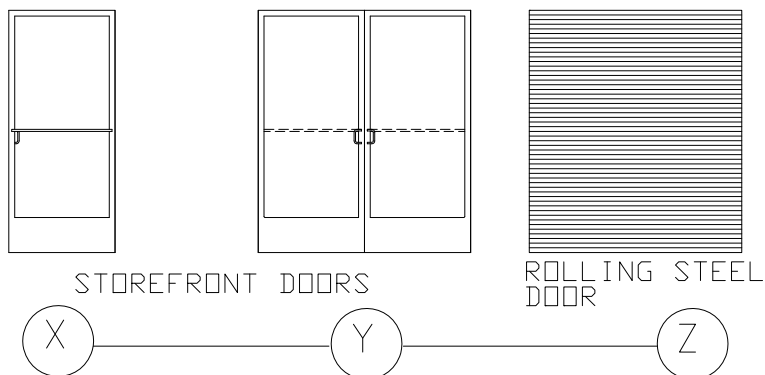
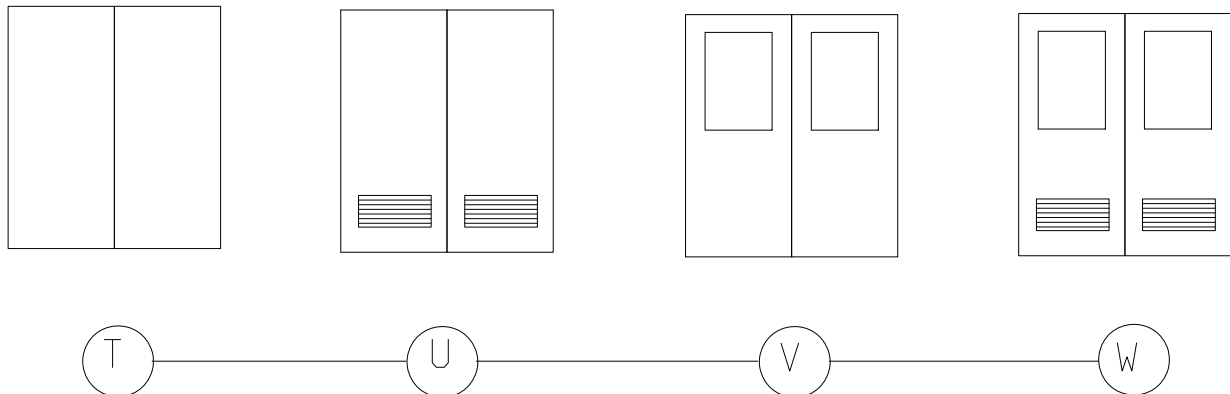
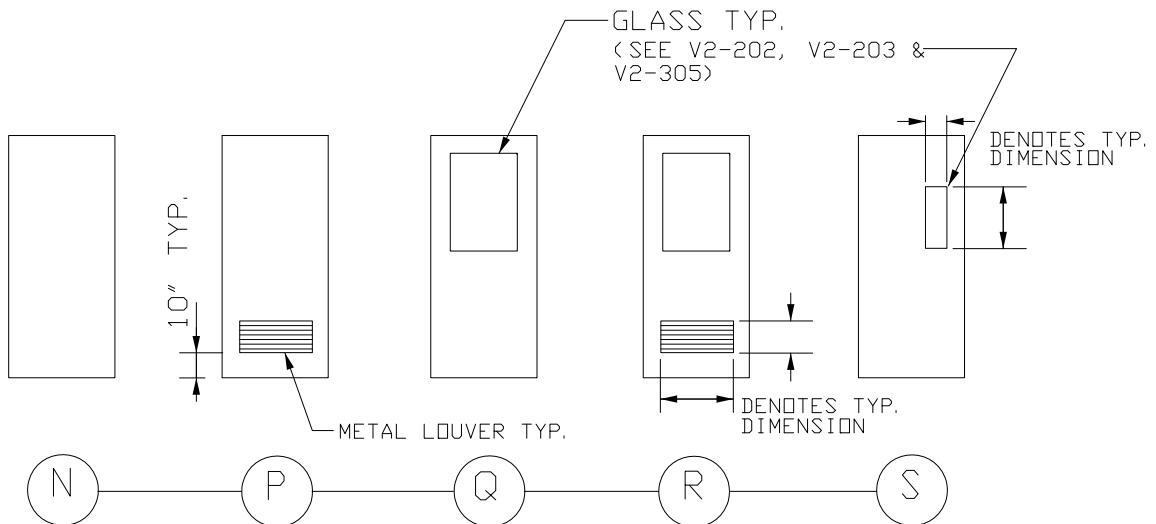
NOTES:

1. ALL DOORS SHALL BE SOLID CORE UNLESS SPECIFIED OTHERWISE.
2. ALL DOORS SHALL BE 1 3/4" THICK U.O.N.
3. FOR MAXIMUM GLASS WINDOW AREA IN FIRE RATED DOORS SEE DET.V2-202 OR 203.
4. NFPA - 80 APPENDIX FIRE DOOR CLASSIFICATION
3 - HR = A 1 - HR = B
1-1/2 - HR = B 3/4 - HR = C
5. PROVIDE JAMB & HEAD CLEARANCE OF 1/8" MAX. BOTTOM CLEARANCE SHALL NOT EXCEED 3/8" FOR SINGLE DOORS, AND 1/4" FOR PAIRS OF DOORS.



(ALL DOORS SHOWN ARE IN ELEVATION VIEW)

LOCKHEED MARTIN SPACE SYSTEMS		V2-200		REV.
				2
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	BPALMON	DATE
DWG TITLE: WOOD DOOR TYPES		CHECKED		8-19-96
ALL FACILITIES		APPROVED		
SCALE: NONE	CAD. ID. V2-200.dwg	ER NO.		SHT. OF 1



NOTES:

1. ALL METAL DOORS ARE HOLLOW, 1 3/4" THICK, SEE SPECS. FOR DOOR INSULATION
2. FOR MAX. GLASS WINDOW AREA IN FIRE RATED DOORS SEE DET. V2-202 OR V2-203.
3. NFPA - 80 APPENDIX F, DOOR CLASSIFICATION
3 HR=A
1-1/2HR=B 1 HR=C
3/4 HR=C
4. PROVIDE JAMB & HEAD CLEARANCE OF 1/8" MAX. BOTTOM CLEARANCE SHALL NOT EXCEED 3/8" FOR SINGLE DOORS, AND 1/4" FOR PAIRS OF DOORS.
5. ALL DOORS SHOWN IN ELEVATION VIEW

LOCKHEED MARTIN
SPACE SYSTEMS



V2-201

REV.

3

DATE

8/5/14

FACILITY OPERATIONS & SERVICES

DRAWN D.KAEINI

DWG TITLE: METAL DOOR TYPES

CHECKED M.DOOLEY

ALL FACILITIES

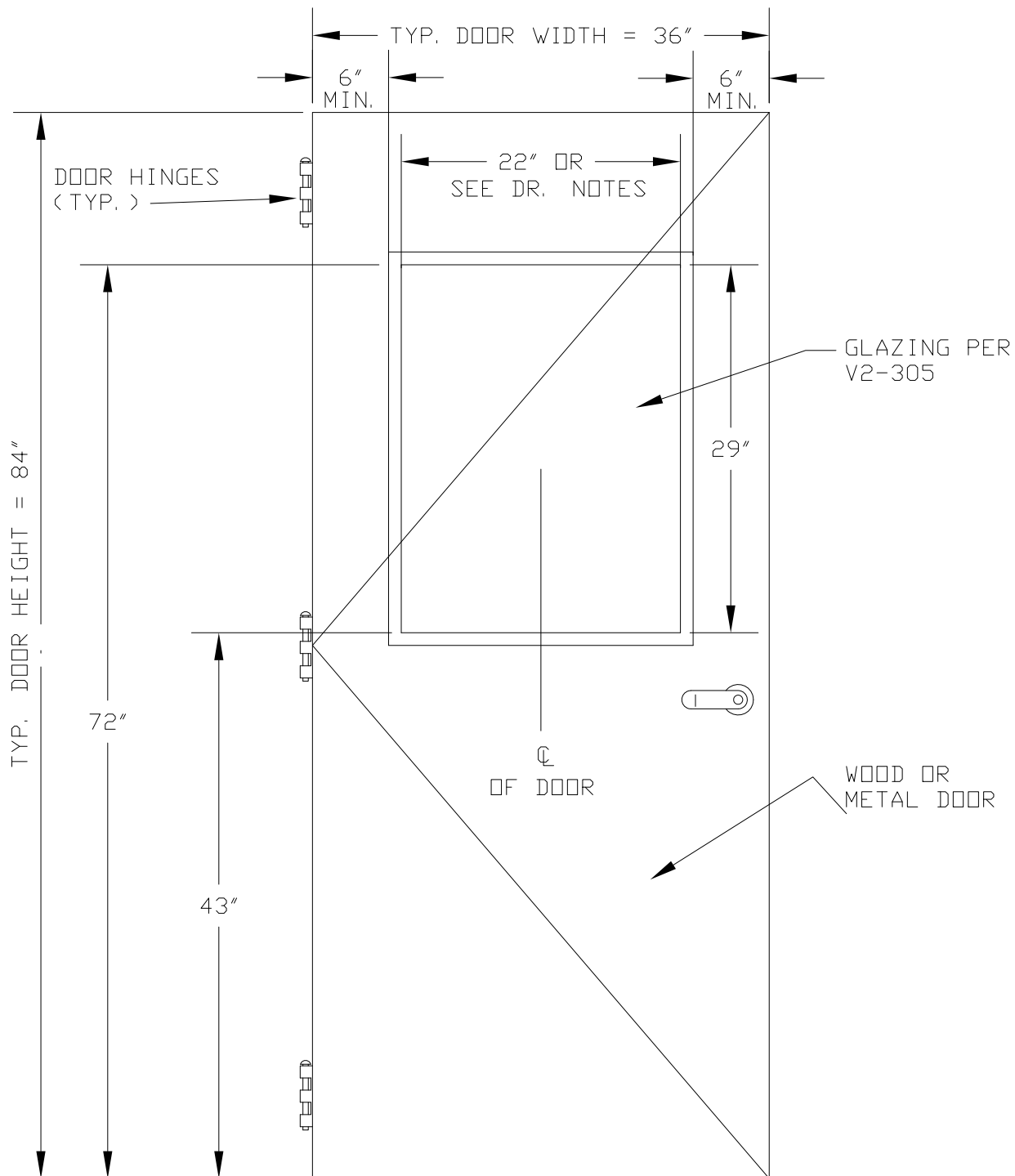
APPROVED M.DOOLEY

SCALE: NONE

CAD. ID. V2-201.dwg

ER NO.

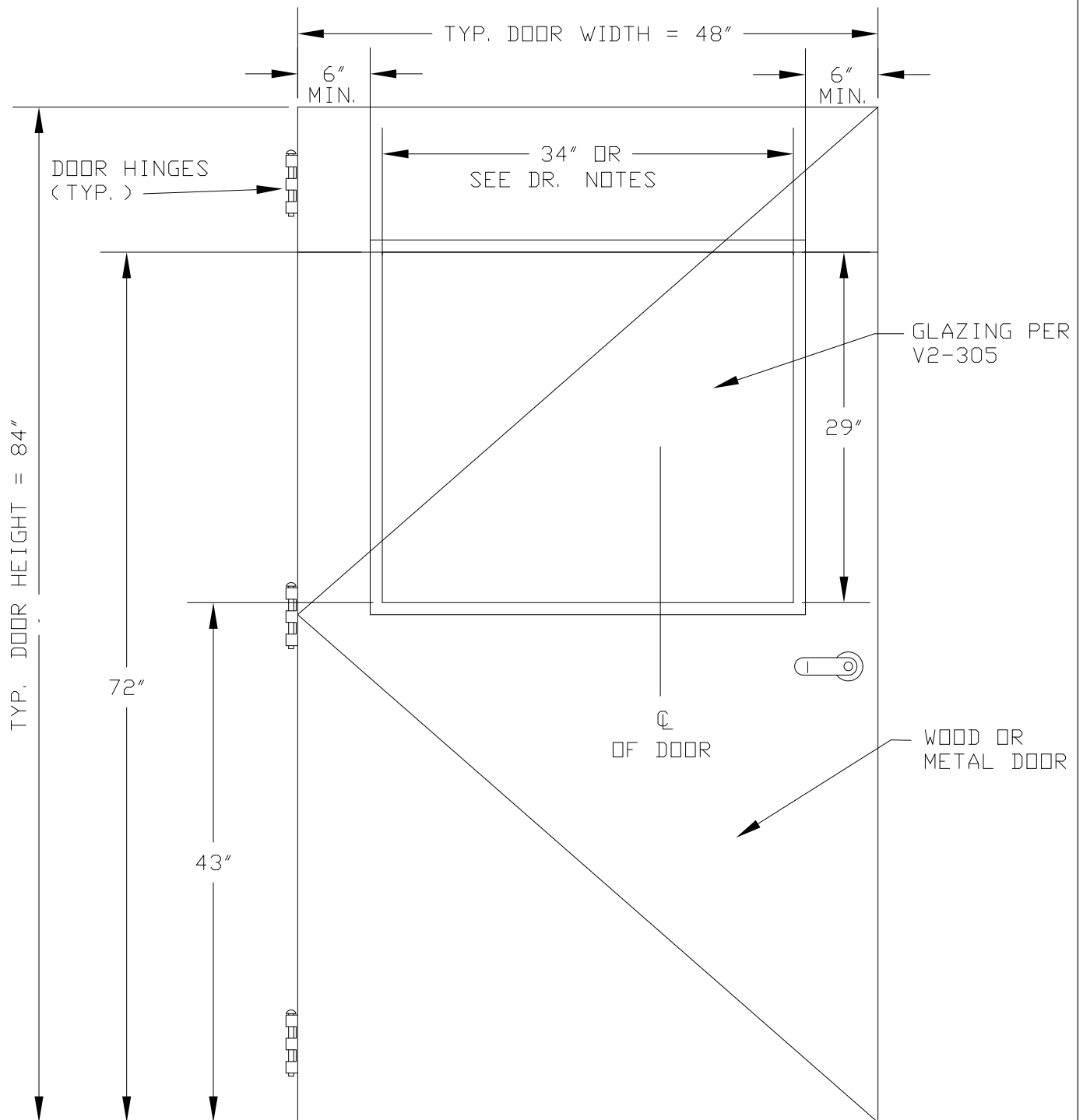
SHT. OF 1 1



DOOR NOTES:

1. 20 MIN. OR 3/4 HOUR FIRE RATED DOOR 1296 SQ. IN. MAX. GLASS AREA.
2. 1 HOUR FIRE RATED DOOR 100 SQ. IN. MAX. GLASS AREA.
3. 2 OR 3 HOUR FIRE RATED DOOR NO GLASS ALLOWED.

LOCKHEED MARTIN SPACE SYSTEMS		V2-202		REV.
				3
FACILITY OPERATIONS & SERVICES		DRAWN	D.KAEINI	8/5/2014
DWG TITLE: FIRE RATED DOORS W/FIXED GLASS WINDOW LITE/WOOD OR		CHECKED	M.DOOLEY	8/11/2014
METAL DOOR -ALL FACILITIES		APPROVED	M.DOOLEY	8/11/2014
SCALE: 1"=1'0"	CAD. ID. V2-202.dwg	ER NO.		SHT. OF 1

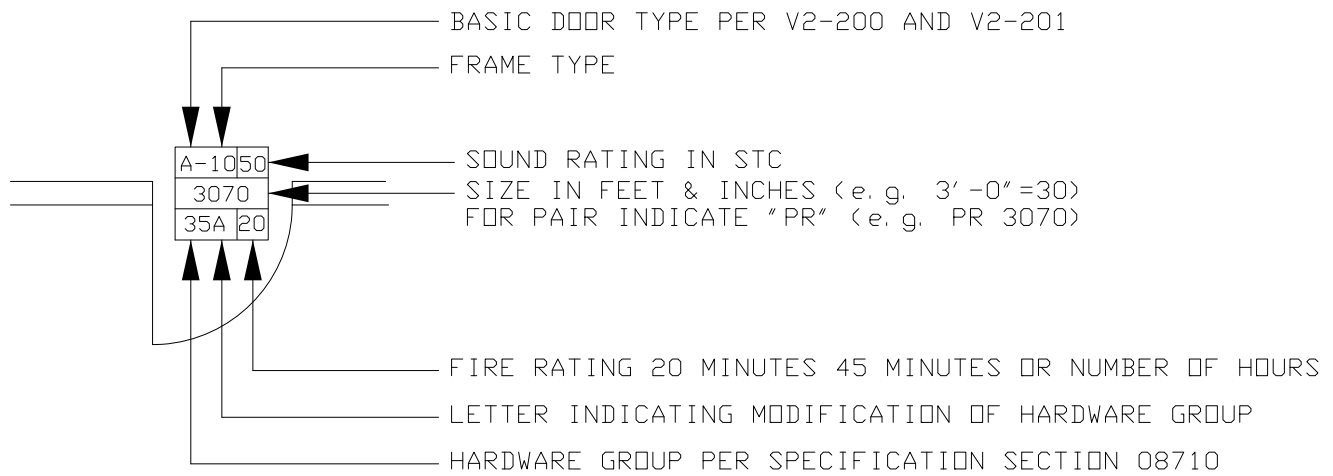


DOOR NOTES:

1. 20 MIN. OR 3/4 HOUR FIRE RATED DOOR 1296 SQ. IN. MAX. GLASS AREA.
2. 1 HOUR FIRE RATED DOOR 100 SQ. IN. MAX. GLASS AREA.
3. 2 OR 3 HOUR FIRE RATED DOOR NO GLASS ALLOWED.

LOCKHEED MARTIN SPACE SYSTEMS		V2-203		REV.
				3
FACILITY OPERATIONS & SERVICES		DRAWN	D.KAEINI	DATE
DWG TITLE: FIRE RATED DOORS W/FIXED GLASS WINDOW LITE/WOOD OR		CHECKED	M.DOOLEY	8/5/2014
METAL DOOR -ALL FACILITIES		APPROVED	M.DOOLEY	
SCALE: 1"=1'0"	CAD. ID. V2-203.dwg	ER NO.		SHT. OF 1

DOOR SYMBOL



FRAME TYPE SCHEDULE

TYPE	DESCRIPTION
1	STANDARD HOLLOW METAL FRAME IN DRYWALL CONSTRUCTION
2	SOUND RETARDANT DOOR IN DRYWALL CONSTRUCTION
3	HOLLOW METAL FRAME IN DRYWALL CONSTRUCTION, FLUSH WITH WALL SURFACE
4	HOLLOW METAL FRAME IN MASONRY WALL
5	HOLLOW METAL FRAME IN CONCRETE WALL
6	HOLLOW METAL CASSED OPENING IN DRYWALL CONSTRUCTION
7	HOLLOW METAL CASSED OPENING IN MASONARY WALL
8	HOLLOW METAL CASSED OPENING IN CONCRETE WALL
9	ROLL-UP DOOR
10	ALUMINUM FRAME IN DRYWALL CONSTRUCTION

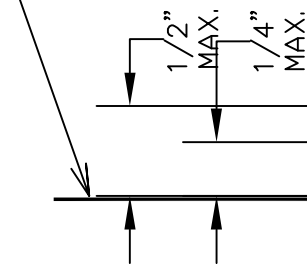
LOCKHEED MARTIN SPACE SYSTEMS		V2-204		REV. 3
				DATE
FACILITY OPERATIONS & SERVICES		DRAWN	D.KAEINI	8/5/2014
DWG TITLE: DOOR SYMBOL & FRAME TYPES		CHECKED	M.DOOLEY	8/11/2014
ALL FACILITIES		APPROVED	M.DOOLEY	8/11/2014
SCALE: NONE	CAD. ID. V2-204.dwg	ER NO.	SHT. OF 1	1

WOOD OR
METAL DOOR

DOOR BOTTOM EQUAL
TO "PEMKO" #315AN
EXTRUDED ANODIZED
ALUMINUM W/1/8" X
1 3/8" BLACK
NEOPRENE RUBBER

THRESHOLDS EQUAL TO ONE
OF THE FOLLOWING:
"PEMKO" #270A,170A,OR 175A
EXTRUDED ALUM.
(VERIFY FINISH FLOOR MATERIALS
ADJACENT TO DOOR PRIOR TO
ORDERING THRESHOLDS)

FINISH FLOOR



3/16

1-3/4"

1/8" THICK
BLACK
NEOPRENE

SECTION VIEW

FULL SCALE

NOTE:

THRESHOLDS SHOULD BE COATED WITH "PEMKOTE" STAINLESS
STEEL ABRASIVE SURFACE WHEN:
DOORS ARE EXPOSED TO CORROSIVE SITUATIONS,SKID RESISTANCE IS REQUIRED,
FOR HEAVY USED DOORS(DOORS WITH LOTS OF TRAFFIC) & ALL EXTERIOR DOORS, ETC.

LOCKHEED MARTIN
SPACE SYSTEMS



V2-205

REV.

1

DATE

01-88

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN

DWG TITLE: DOOR THRESHOLD AND WEATHER STRIP/WD. OR MTL. DOOR

CHECKED

ALL FACILITIES

APPROVED

SCALE: FULL

CAD. ID. V2-205.dwg

ER NO.

SHT. OF 1

RAIN DRIP EQUAL
TO "PEMKO" #345A
EXTRUDED ALUMINUM
#6 X 5/8" SHEET METAL
SCREWS, PUNCHED HOLES.

INTERLOCK THRESHOLD
EQUAL TO "PEMKO" #114A
EXTRUDED ALUMINUM

EXTERIOR WOOD
OR METAL DOOR

THRESHOLD INTERLOCK
EQUAL TO "PEMKO"
#66A-0.062" THICK
EXTRUDED ALUMINUM, WITH
#6 X 5/8" SHEET METAL
SCREWS.

FINISH FLOOR

1-1/2"

1/2"

1"

MAX

4-1/4"

SECTION VIEW

FULL SCALE

NOTE:

THRESHOLDS SHOULD BE COATED WITH "PEMKOTE" STAINLESS
STEEL ABRASIVE SURFACE WHEN:
DOORS ARE EXPOSED TO CORROSIVE SITUATIONS, SKID RESISTANCE IS REQUIRED,
FOR HEAVY USED DOORS (DOORS WITH LOTS OF TRAFFIC) & ALL EXTERIOR DOORS, ETC.

LOCKHEED MARTIN
SPACE SYSTEMS



V2-206

REV.

1

DATE

01-88

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN

DWG TITLE: DOOR THRESHOLD AND BOTTOM PROTECTION-WD. OR MTL. DOOR

CHECKED

ALL FACILITIES

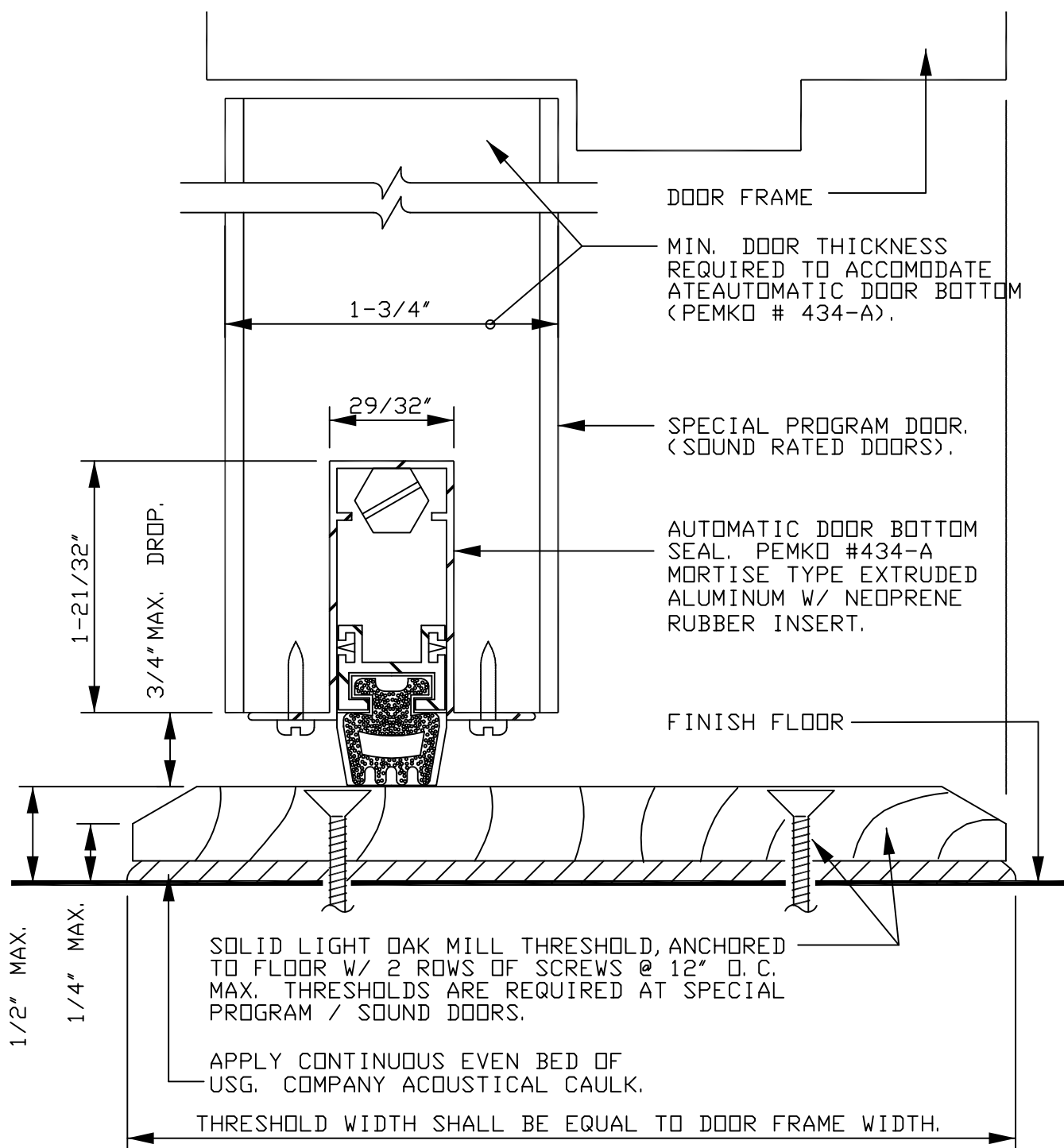
APPROVED

SCALE: FULL

CAD. ID. V2-206.dwg

ER NO.

SHT. OF 1



SECTION VIEW

NTS

LOCKHEED MARTIN
SPACE SYSTEMS



V2-207

REV.

1

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN LARRY GEER

02-88

DWG TITLE: THRESHOLD AND SEAL FOR SPECIAL PROGRAM DOORS

CHECKED

ALL FACILITIES

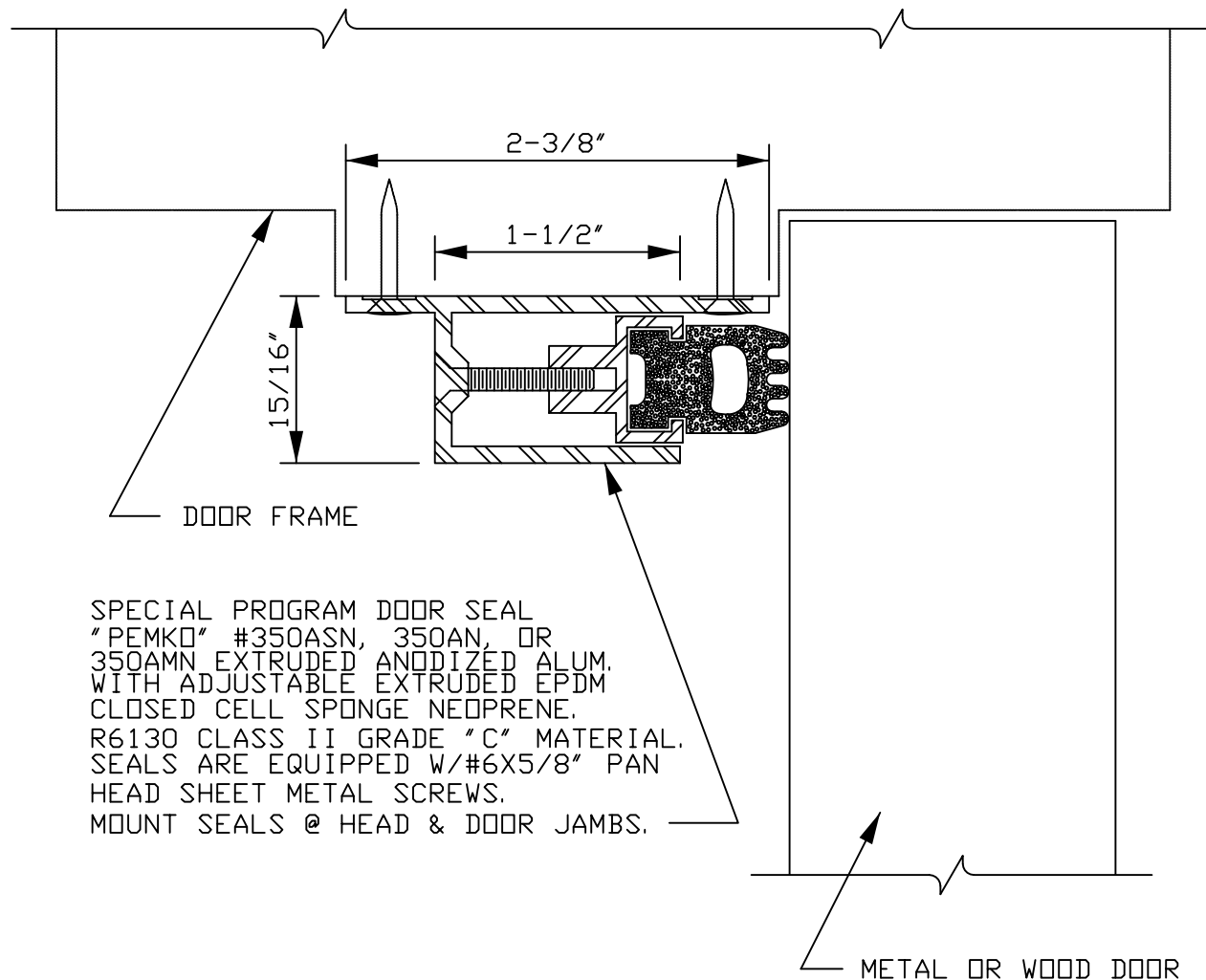
APPROVED

SCALE: NONE

CAD. ID. V2-207.dwg

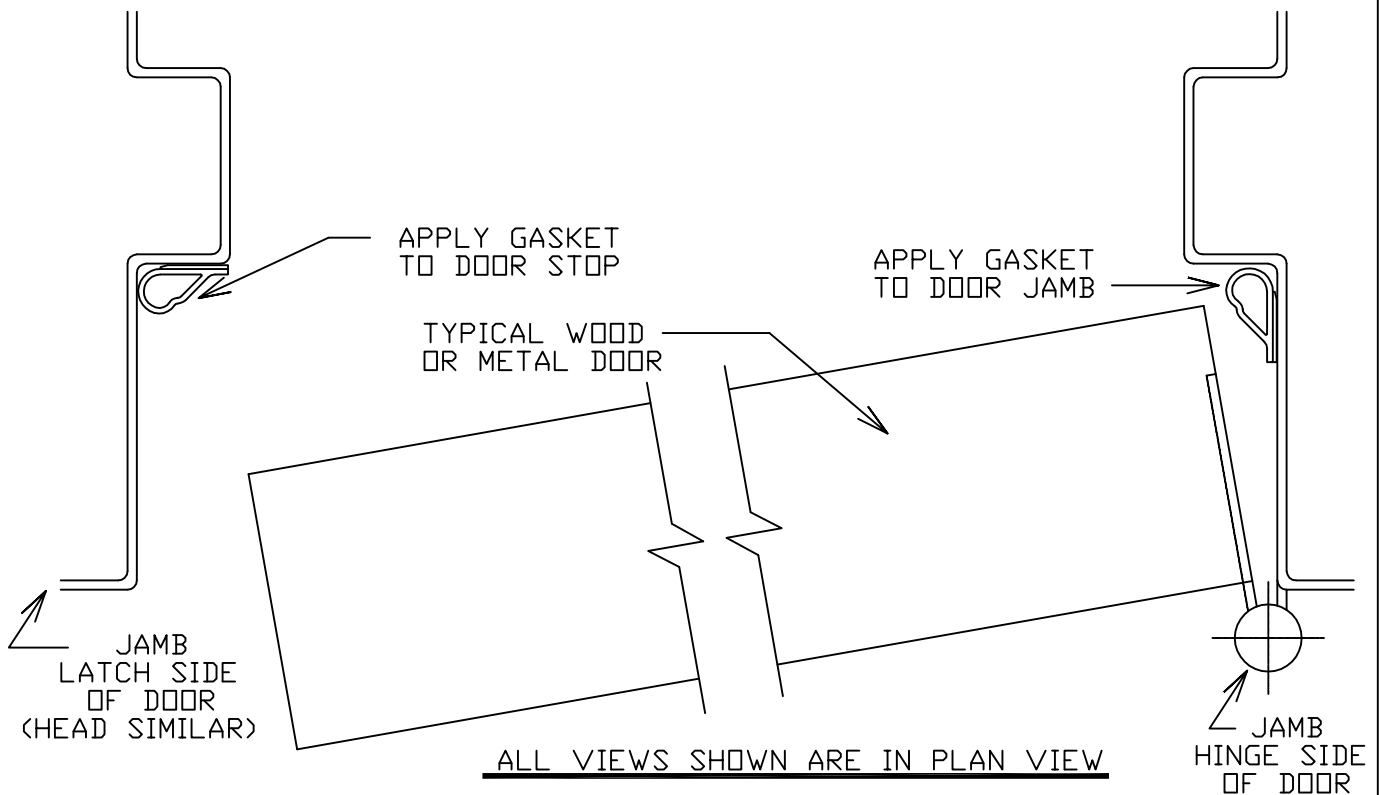
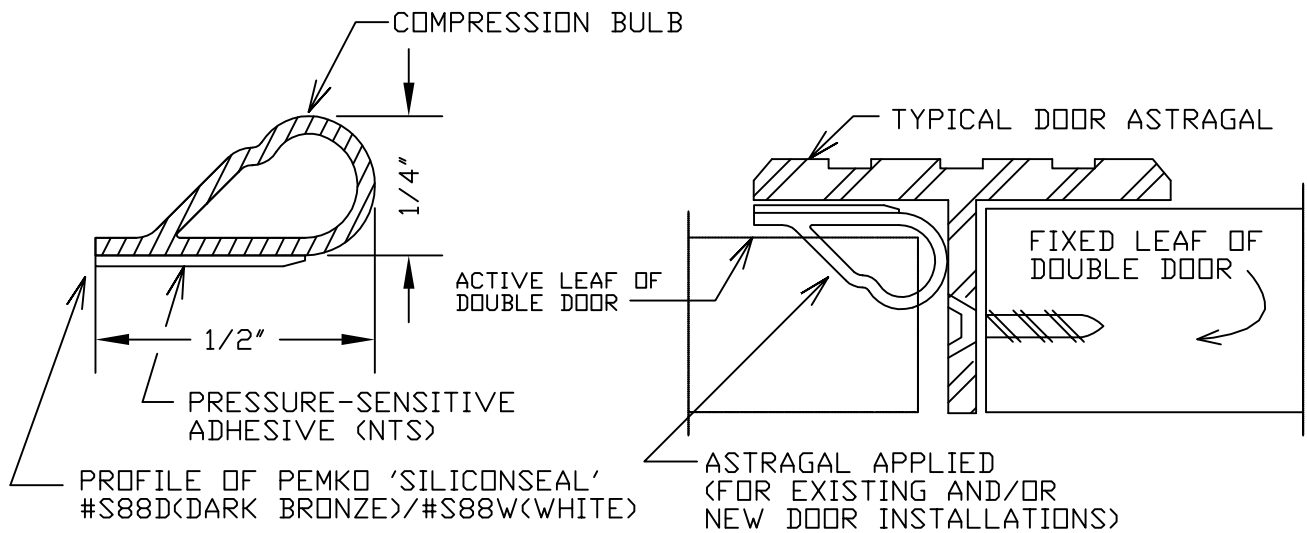
ER NO.

SHT. OF 1



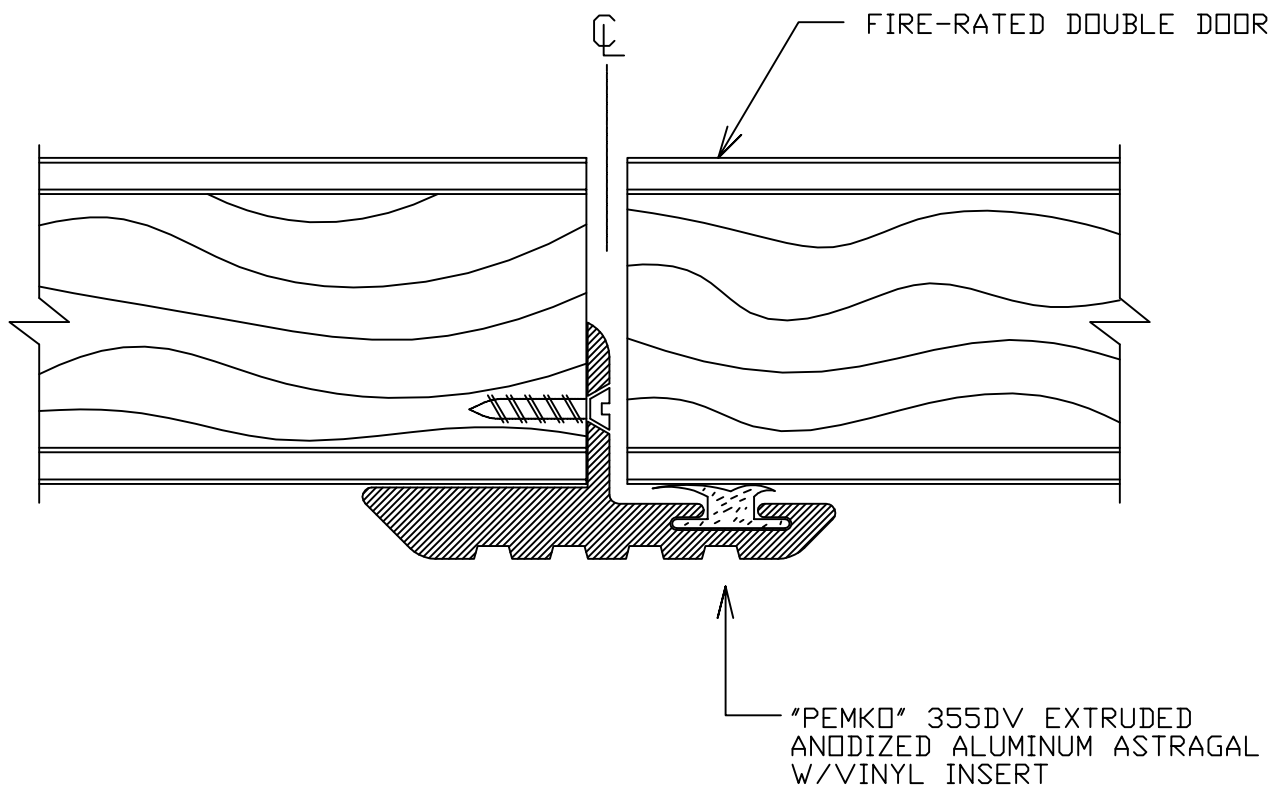
SECTION VIEW
FULL SCALE

LOCKHEED MARTIN SPACE SYSTEMS		V2-208		REV.	1
				DATE	11-87
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	LARRY GEER		
DWG TITLE: SPECIAL PROGRAM DOOR-HEAD & JAMB SEAL		CHECKED			
ALL FACILITIES		APPROVED			
SCALE:	FULL	CAD. ID.	V2-208.dwg	ER NO.	SHT. OF 1



- NOTES:**
1. MITER-CUT "SILICONSEAL" GASKET @ CORNERS OF DOOR FRAME DURING INSTALLATION.
 2. GASKET TO BE APPLIED TO SURFACE AGAINST WHICH CLOSING DOOR WOULD APPLY COMPRESSION, FOR MAXIMUM EFFECIENCY AND TO AVOID RUBBING ADHESIVE STRIP OFF DOOR FRAME/ASTRAGAL.
 3. OTHER APPROVED PEMKO DOOR SEALS ARE: 293AS W/52, 297AS W/53, 290AS W/53 & 303AS W/53.

LOCKHEED MARTIN SPACE SYSTEMS		V2-212		REV.
				1
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	LARRY GEER	DATE
DWG TITLE: SMOKE SEAL SELF-ADHESIVE DOOR GASKET APPLICATIONS		CHECKED		11/87
ALL FACILITIES		APPROVED		
SCALE: FULL	CAD. ID. tails:V2-212.dwg	ER NO.		SHT. OF 1



PLAN VIEW
FULL SCALE

LOCKHEED MARTIN
SPACE SYSTEMS



V2-213

REV.

1

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN LARRY GEER

12-17-88

DWG TITLE: ASTRAGAL WITH SEAL FOR FIRE RATED DOUBLE DOORS

CHECKED

ALL FACILITIES

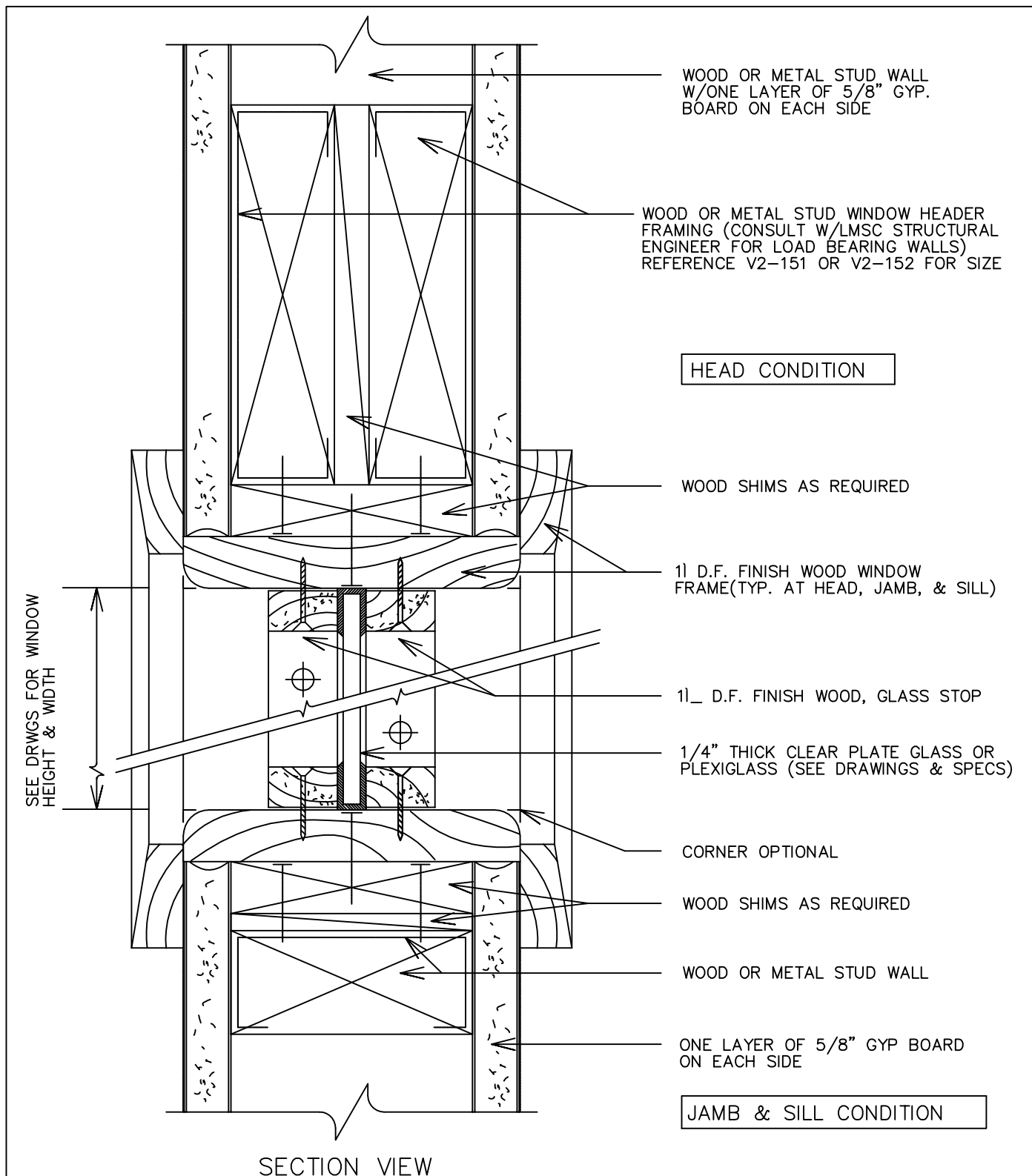
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SCALE: NONE

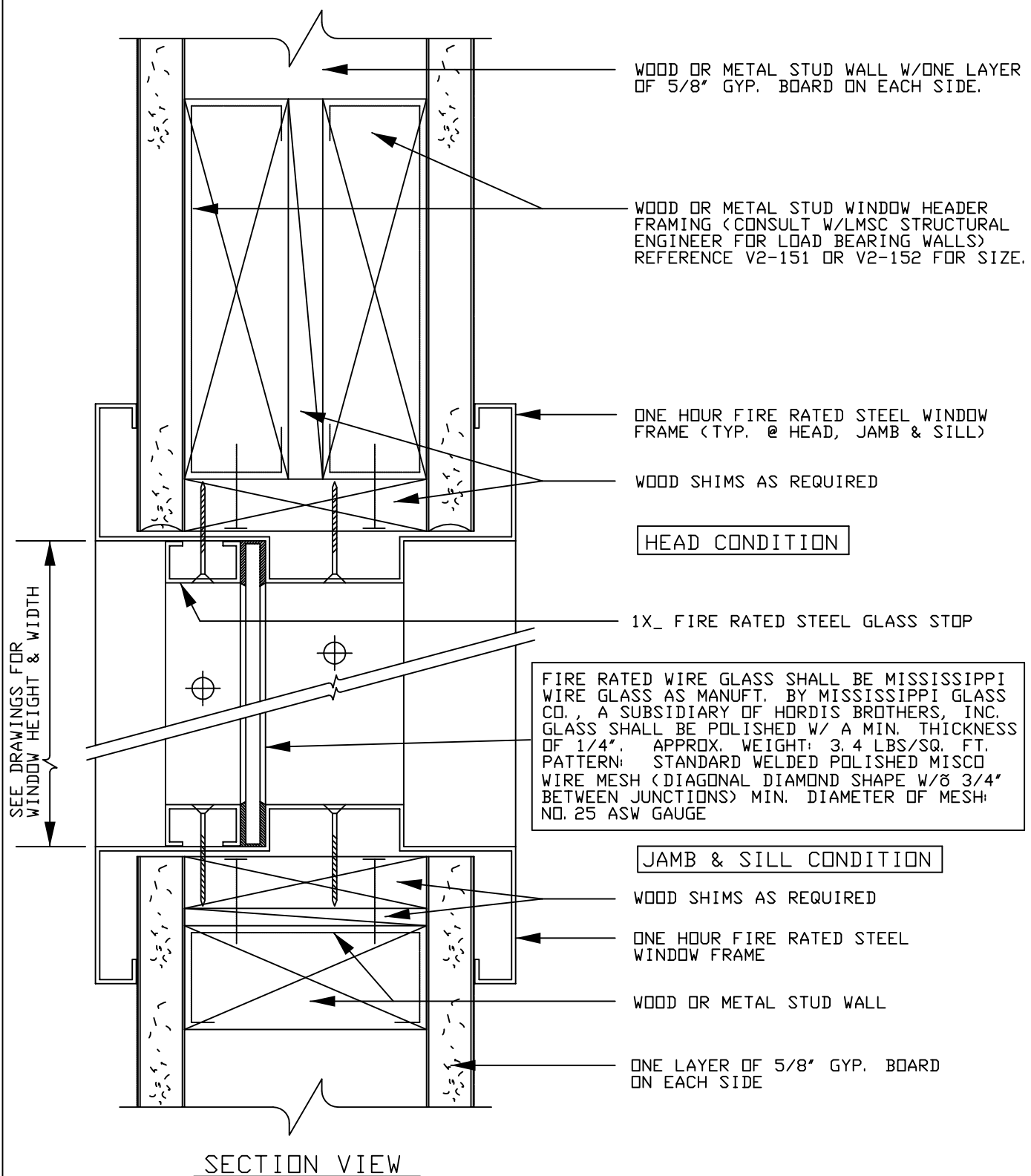
CAD. ID. V2-213.dwg

ER NO.

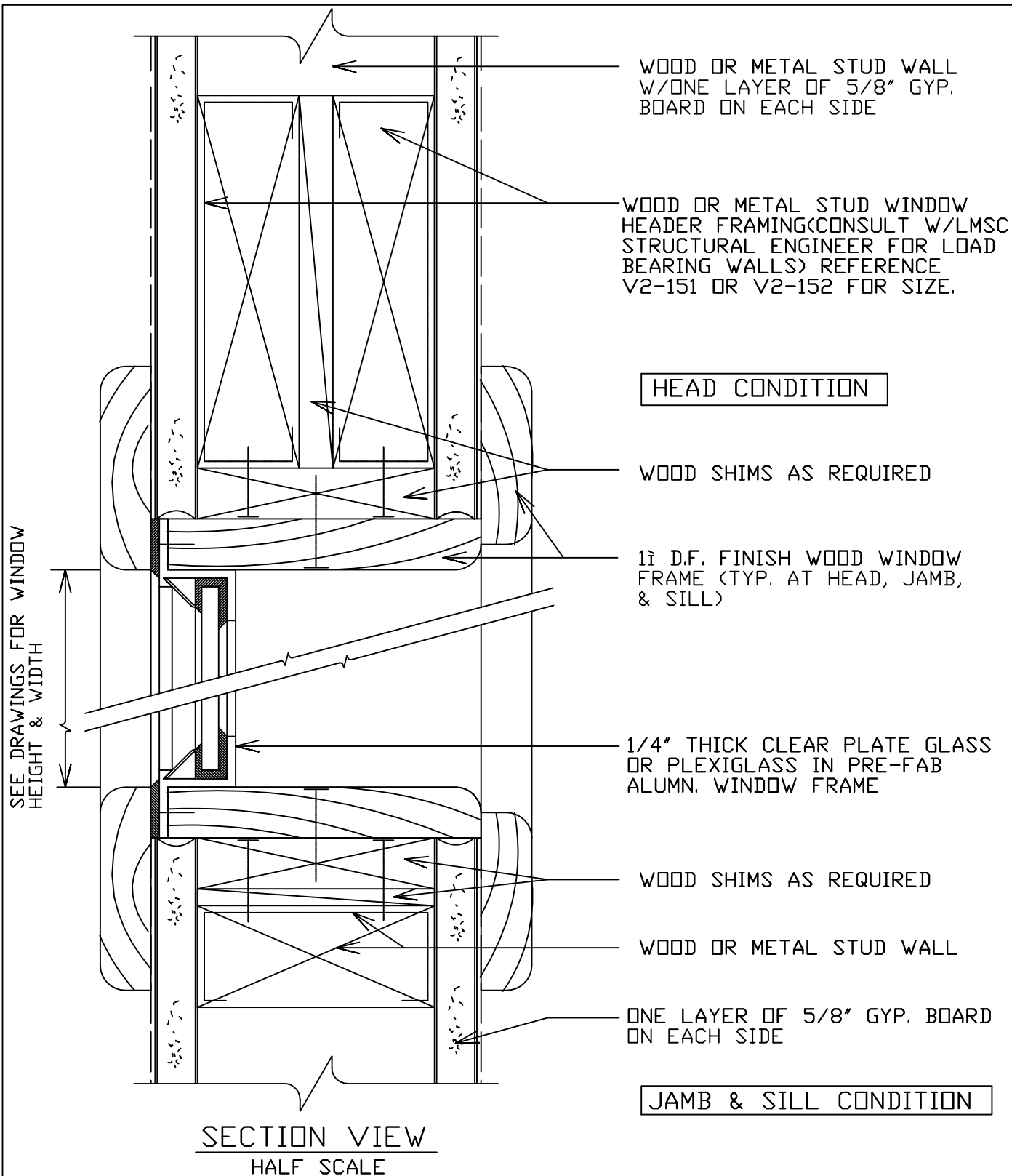
SHT. OF 1



LOCKHEED MARTIN SPACE SYSTEMS		V2-300	REV. 1
			DATE 11/87
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	
DWG TITLE: WOOD FRAMED FIXED GLASS WINDOW IN WD./MTL. STUD WALL		CHECKED	
ALL FACILITIES		APPROVED	
SCALE: 1/2"=1"	CAD. ID. tails\V2-300.dwg	ER NO.	SHT. OF 1



LOCKHEED MARTIN SPACE SYSTEMS		V2-301	REV.
			1
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	DATE
DWG TITLE: 1HR FIRE RATE GLASS WINDOW IN WD./MTL STUD WALL		CHECKED	11-87
ALL FACILITIES		APPROVED	
SCALE: 1/2"=1'-0"	CAD. ID. V2-301.DWG	ER NO.	SHT. OF 1



LOCKHEED MARTIN
SPACE SYSTEMS



V2-302

REV.

1

DATE

11/87

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN

KAEINI

DWG TITLE: METAL FRAMED FIXED GLASS WINDOW IN MTL.WD.STUD WALL

CHECKED

ALL FACILITIES

APPROVED

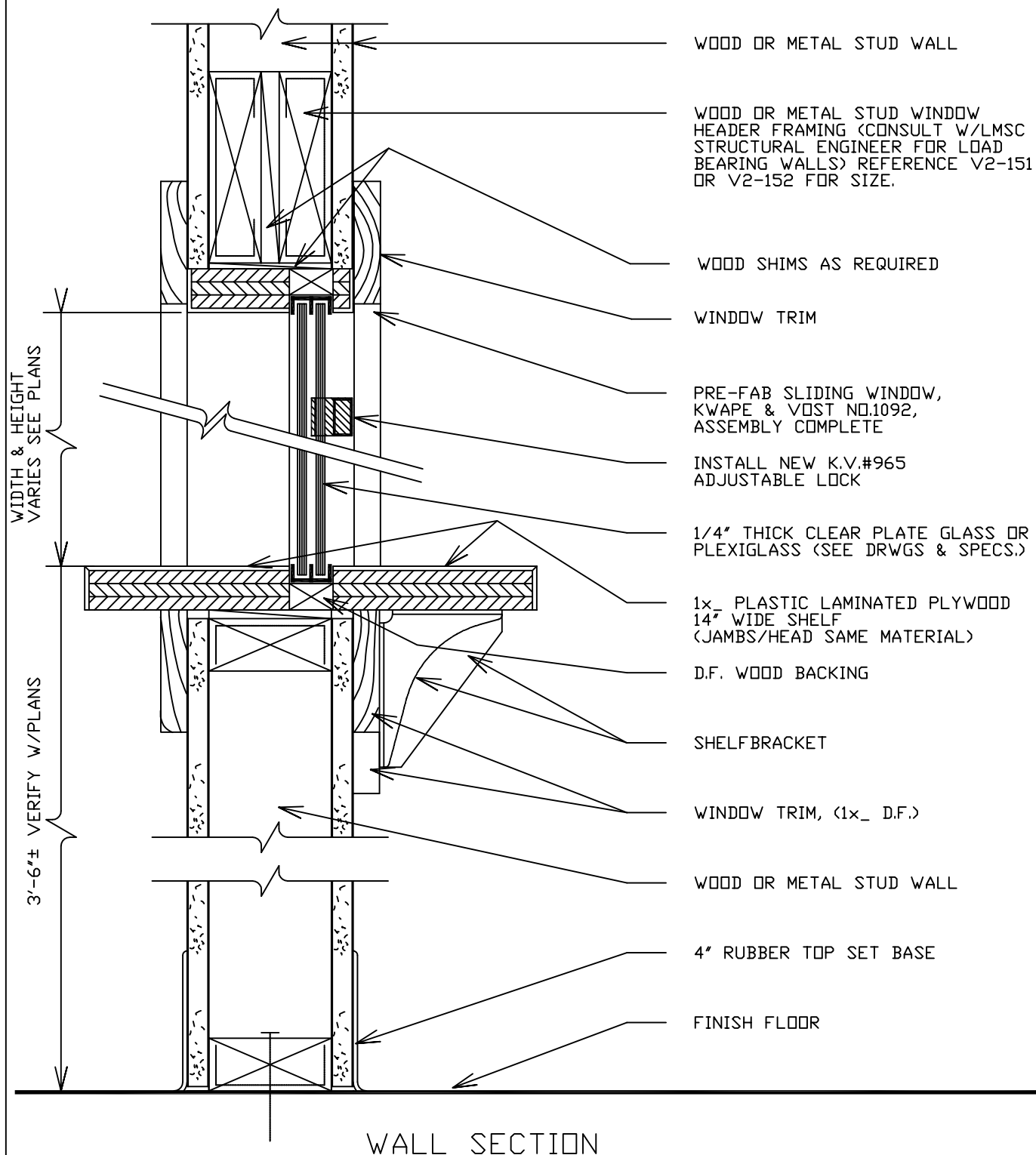
SCALE: 1/2"=1'

CAD. ID.

V2-302.DWG

ER NO.

SHT.
OF

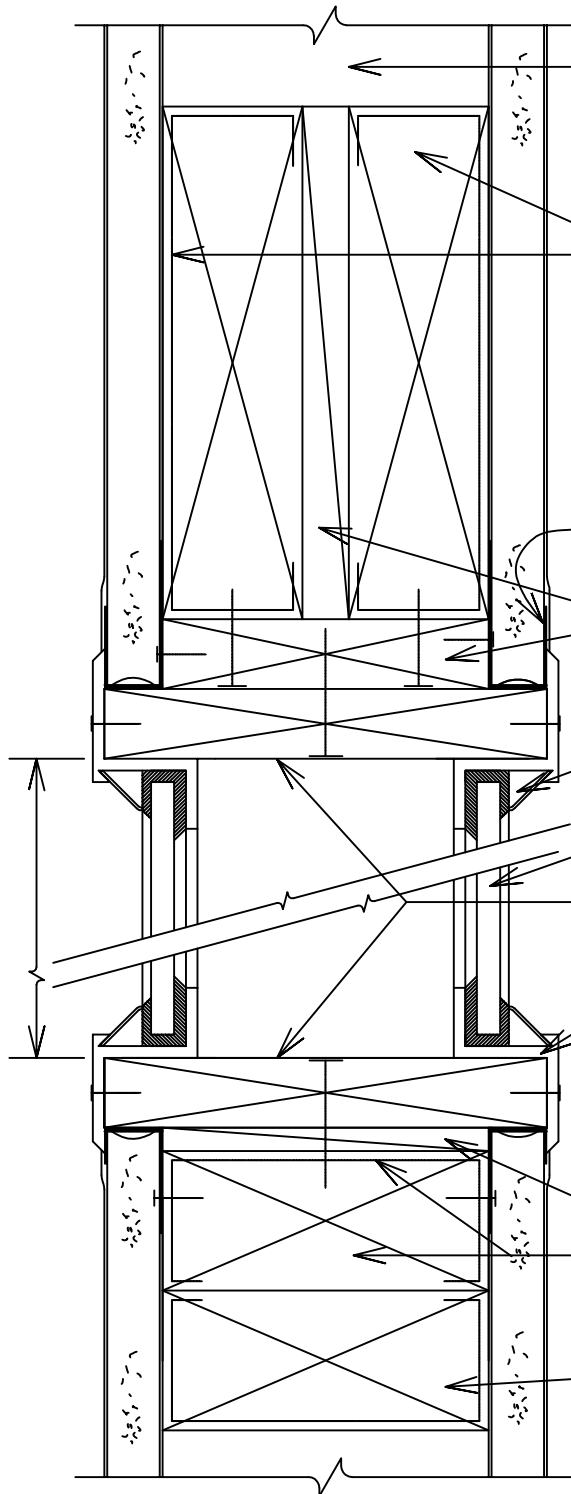


LOCKHEED MARTIN SPACE SYSTEMS		V2-303		REV.	1
				DATE	02/88
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN			
DWG TITLE: SLIDING WINDOW W/SHELF IN WOOD OR METAL STUD WALL		CHECKED			
ALL FACILITIES		APPROVED			
SCALE: 3"=1'-0"	CAD. ID. V2-303.dwg	ER NO.	SHT. OF	1	1

3'=1'-0"

1

SEE DRAWINGS FOR WINDOW
HEIGHT & WIDTH



WOOD OR METAL STUD WALL

WOOD OR METAL STUD WINDOW
HEADER FRAMING(CONSULT W/LMSC
STRUCTURAL ENGINEER FOR LOAD
BEARING WALLS) REFERENCE
V2-151 OR V2-152 FOR SIZE.

HEAD CONDITION

METAL EDGE TRIM (TYP. @ ALL
GYP. BD. EDGES.)

WOOD SHIMS AS REQUIRED

SEALANT MATERIAL MUST NOT
PRODUCE ANY OUT GASES

FOR GLASS COLOR REFER TO
SUPPLEMENTAL SPECS.

PAINT SOLID MATT BLACK

1/4" THICK CLEAR PLATE GLASS
OR PLEXIGLASS IN PRE-FAB
ALUMN. WINDOW FRAME.

THIS WINDOW APPLICATION IS
LIMITED TO CLASS 100,000 &
10,000 CLEAN ROOMS.
(SEE SUPPLEMENTAL SPECS. FOR
WINDOW FRAME FINISH.)

WOOD SHIM AS REQUIRED

WOOD OR METAL STUD WALL

WOOD OR METAL STUD WALL

JAMB & SILL CONDITION

SECTION VIEW

(FOR CLEAN ROOM APPLICATIONS, CLASS 1,000-100,000).

LOCKHEED MARTIN
SPACE SYSTEMS



V2-304

REV.

2

DATE

2-88

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN

DWG TITLE: METAL FRAMED FIXED GLASS WINDOW FLUSHED W/WALL

CHECKED

ALL FACILITIES

APPROVED

SCALE: 1/2"=1"

CAD. ID. V2-304.dwg

ER NO.

SHT.
OF 1

ONE LAYER OF
5/8" GYP. BOARD,
ON EACH SIDE

DRYWALL FINISH
(SEE SPECS.)

2" WOOD STUD
FRAMING

ROUGH OPENING FRAMING;
REFERENCE V2-151
FOR SIZE.

WOOD SHIM AT HEAD
(AS REQUIRED/TYP.)

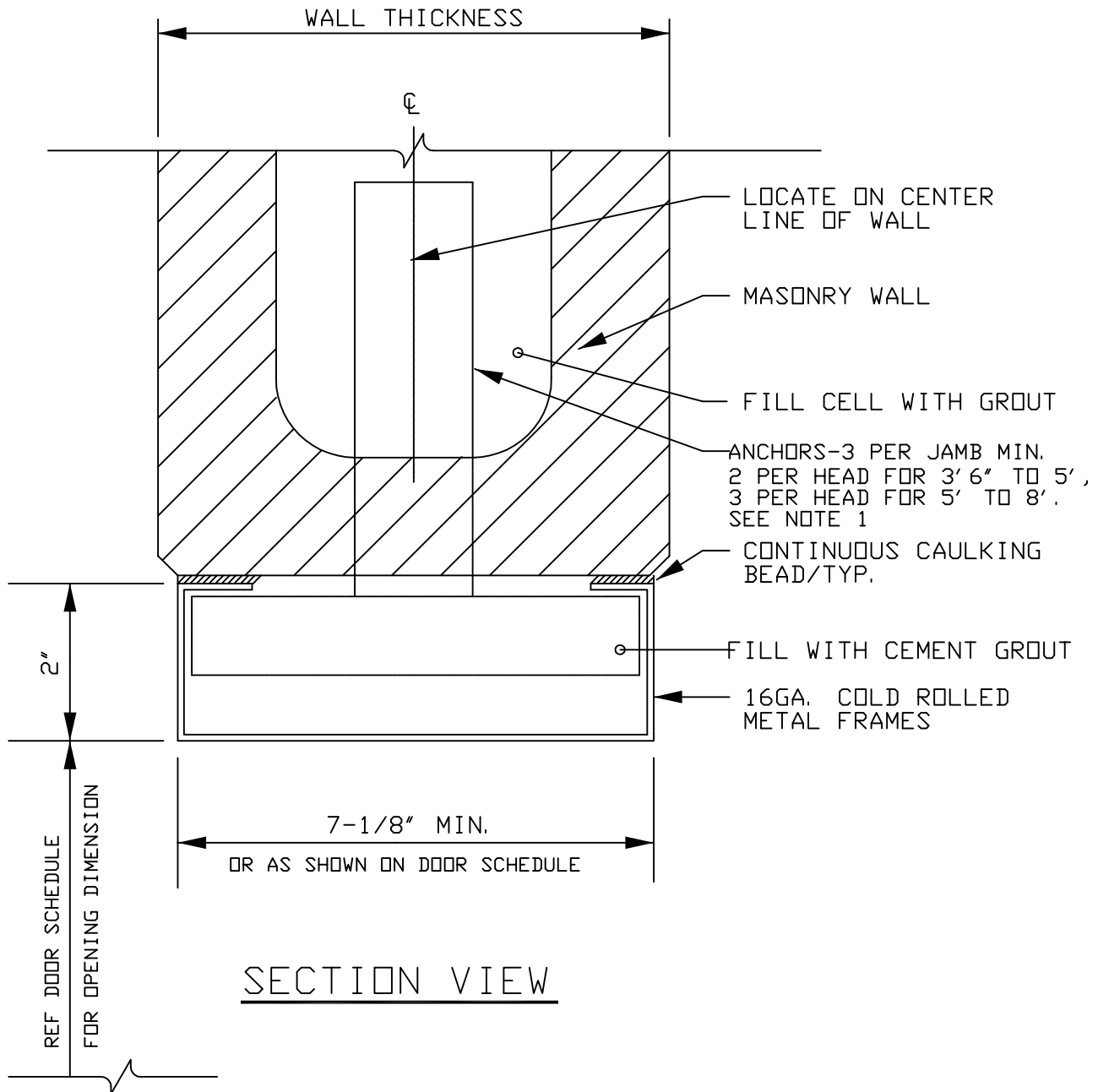
METAL CORNER
BEAD(TYPICAL)

OPENING/SEE
PLAN FOR SIZE

SECTION VIEW

NOTE: JAMB DETAIL IS SIMILAR TO WHAT IS SHOWN ABOVE

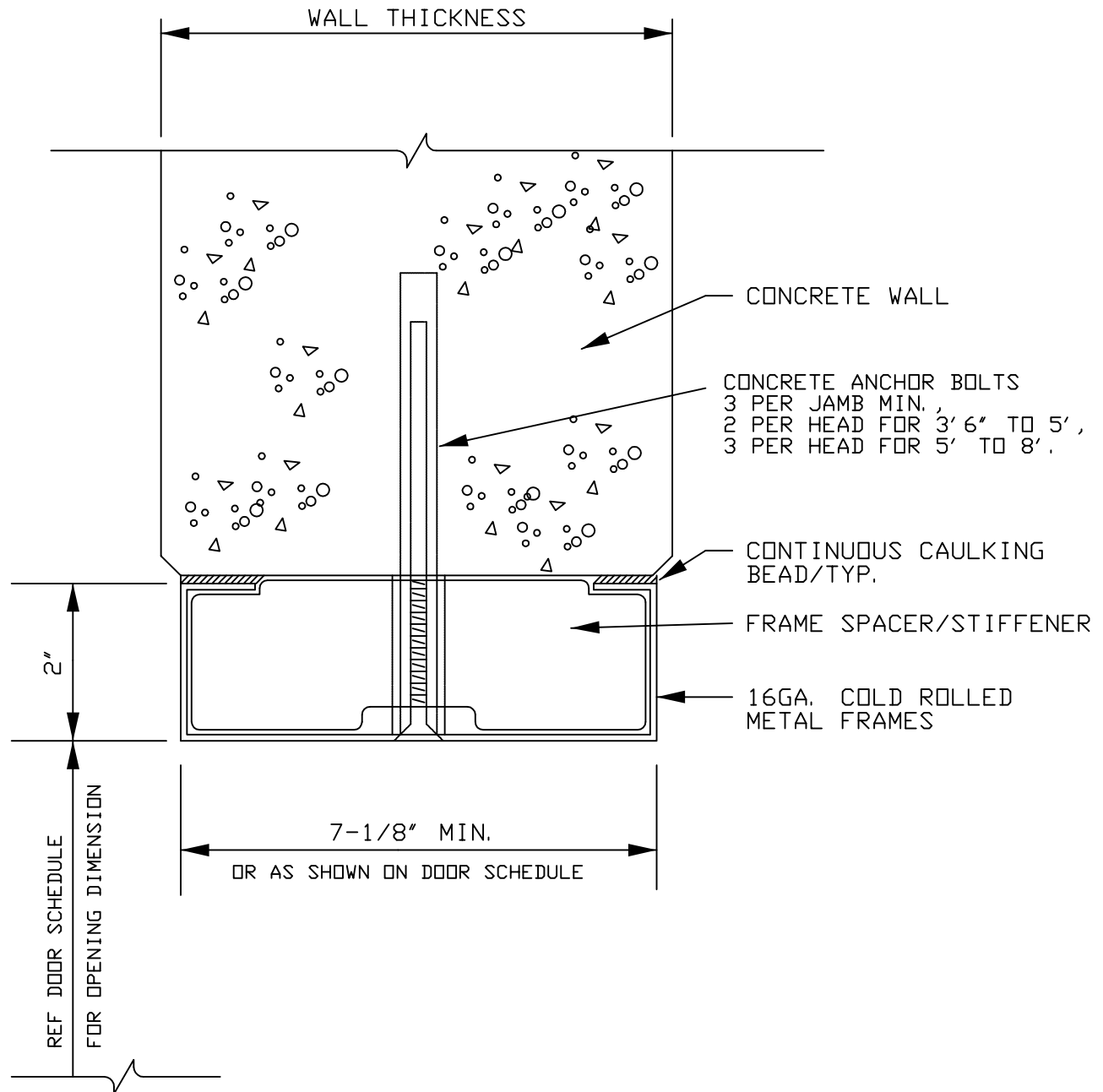
LOCKHEED MARTIN SPACE SYSTEMS		V2-407	REV. 1
			DATE
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN LARRY GEER	02/88
DWG TITLE: HEAD DETAIL / DRYWALL FINISH (JAMB SIMILAR)		CHECKED	
ALL FACILITIES		APPROVED	
SCALE: 1/2"=1"	CAD. ID. V2-407.dwg	ER NO.	SHT. OF 1



NOTES:

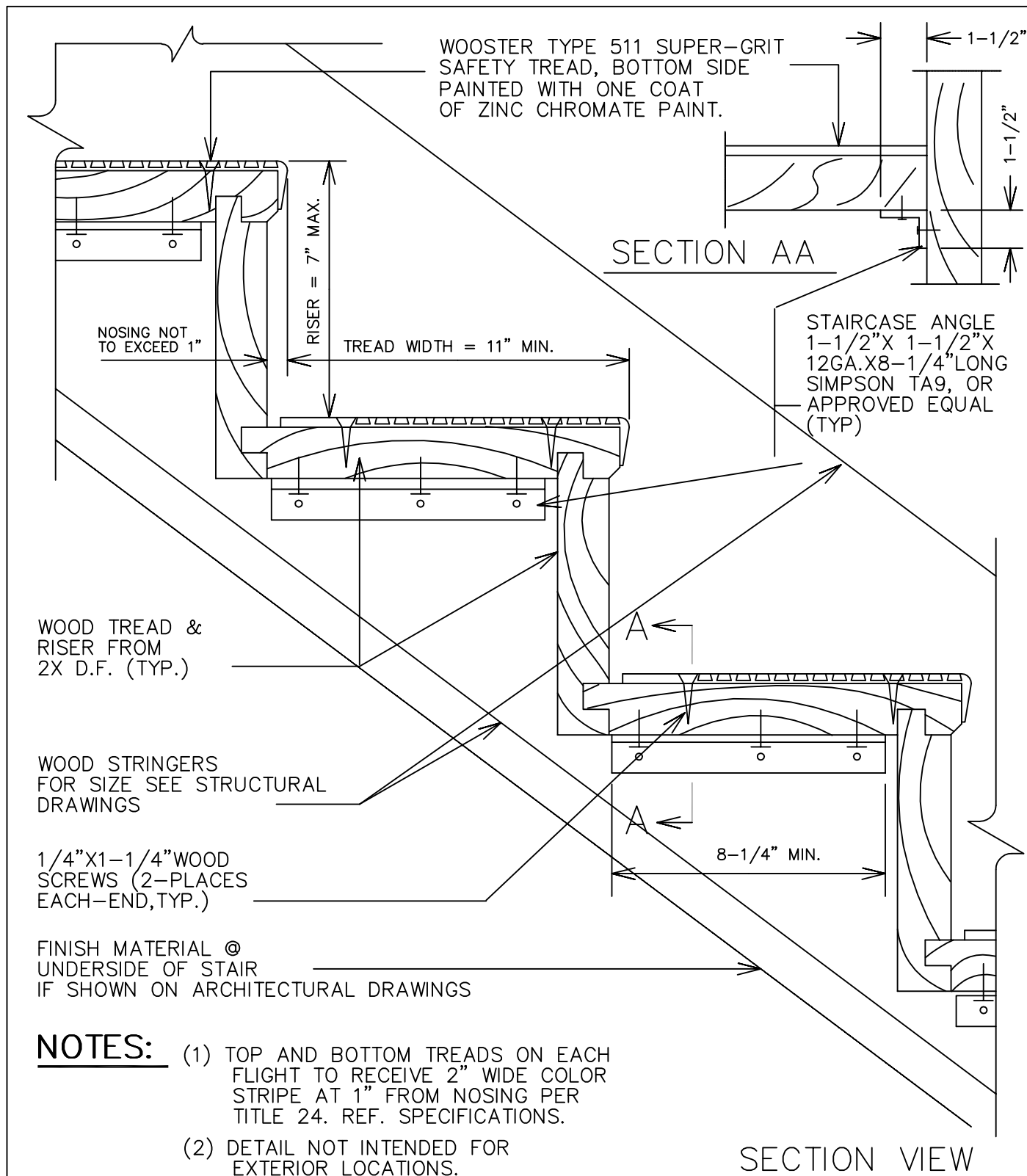
- USE MASONRY ANCHOR BOLTS AT EXISTING LOCATIONS
3 PER JAMB MIN.,
2 PER HEAD FOR 3' 6" TO 5',
3 PER HEAD FOR 5' TO 8'.

LOCKHEED MARTIN SPACE SYSTEMS		V2-408	REV. 1
			DATE
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	02-88
DWG TITLE: HEAD & JAMB/METAL FRAME IN MASONARY WALL OPENING		CHECKED	
		APPROVED	
SCALE: 1/2"=1'-0"	CAD. ID. V2-408.DWG	ER NO.	SHT. OF 1

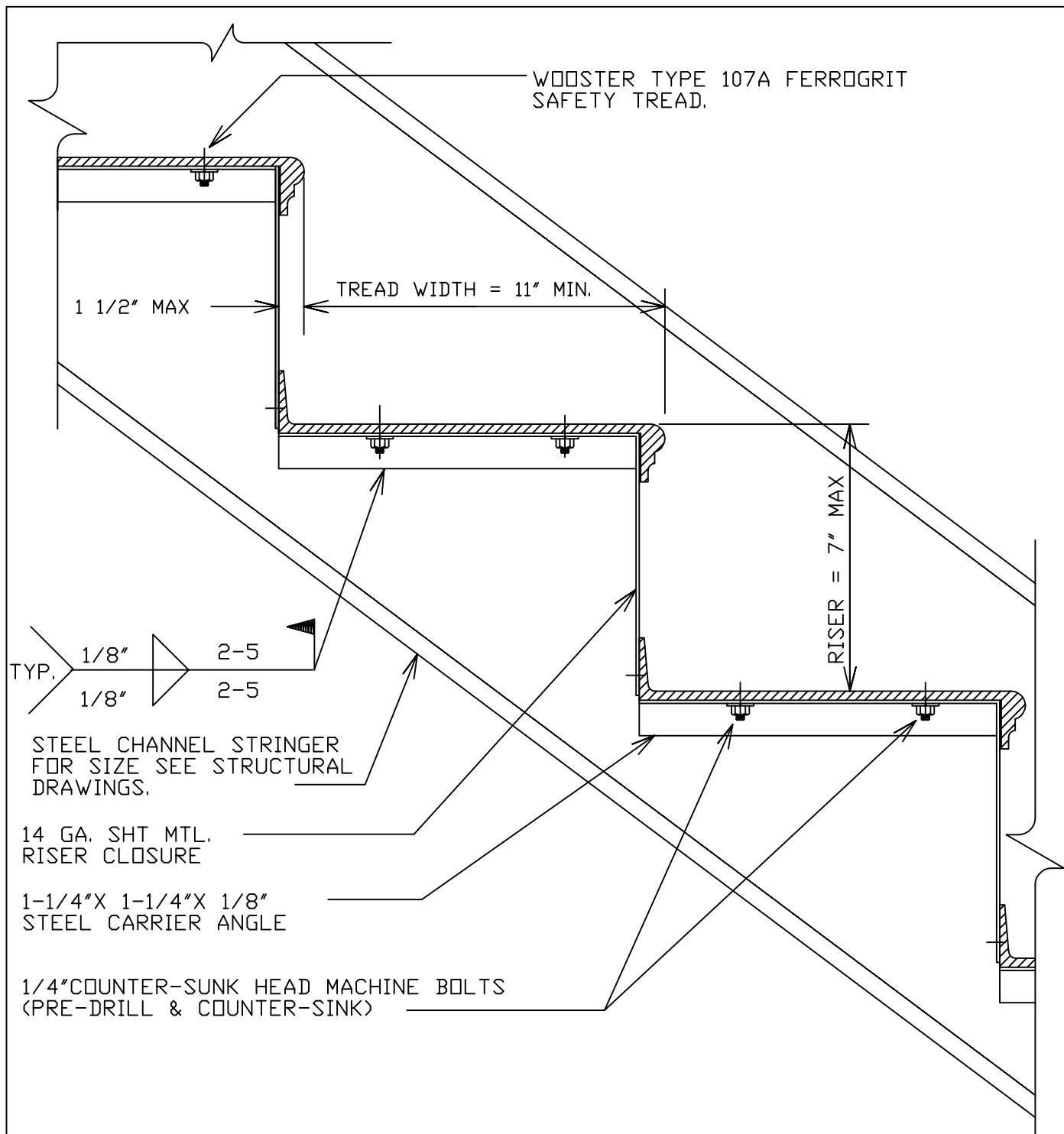


SECTION VIEW
HALF SCALE

LOCKHEED MARTIN SPACE SYSTEMS		V2-409	REV. 1
			DATE 2-88
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN LARRY GEER	
DWG TITLE: HEAD & JAMB/METAL FRAME IN CONCRETE WALL OPENING		CHECKED	
ALL FACILITIES		APPROVED	
SCALE: 1/2"=1'-0"	CAD. ID. V2-409.dwg	ER NO.	SHT. OF 1



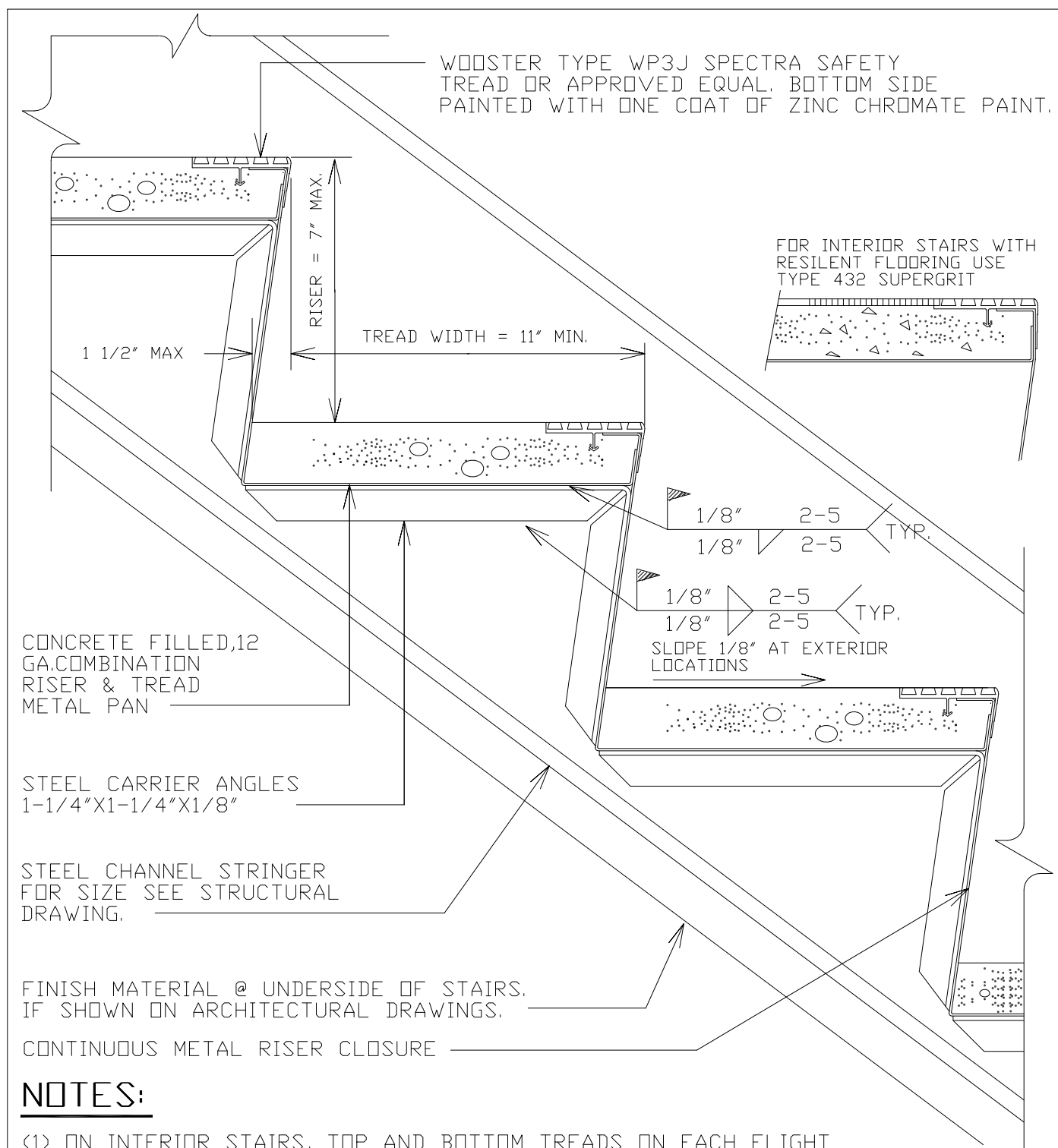
LOCKHEED MARTIN SPACE SYSTEMS		V2-500	REV.
			1
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN LARRY GEER	DATE
DWG TITLE: WOOD STAIRS, WITH SAFETY TYPE TREAD NOSING		CHECKED	02/88
ALL FACILITIES		APPROVED	
SCALE: 3"=1'-0"	CAD. ID. tails\v2-500.dwg	ER NO.	SHT. OF 1



NOTES: (1) TOP AND BOTTOM TREADS ON EACH FLIGHT TO RECEIVE 2" WIDE COLOR STRIPE AT 1" FROM NOSING.

SECTION VIEW

LOCKHEED MARTIN SPACE SYSTEMS		V2-501		REV.
				2
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	LARRY GEER	DATE
DWG TITLE: STEEL STAIRS, WITH SAFETY TYPE TREAD NOSING		CHECKED		02/88
ALL FACILITIES		APPROVED		
SCALE:	3"=1'-0"	CAD. ID.	V2-501.dwg	SHT. OF
				1

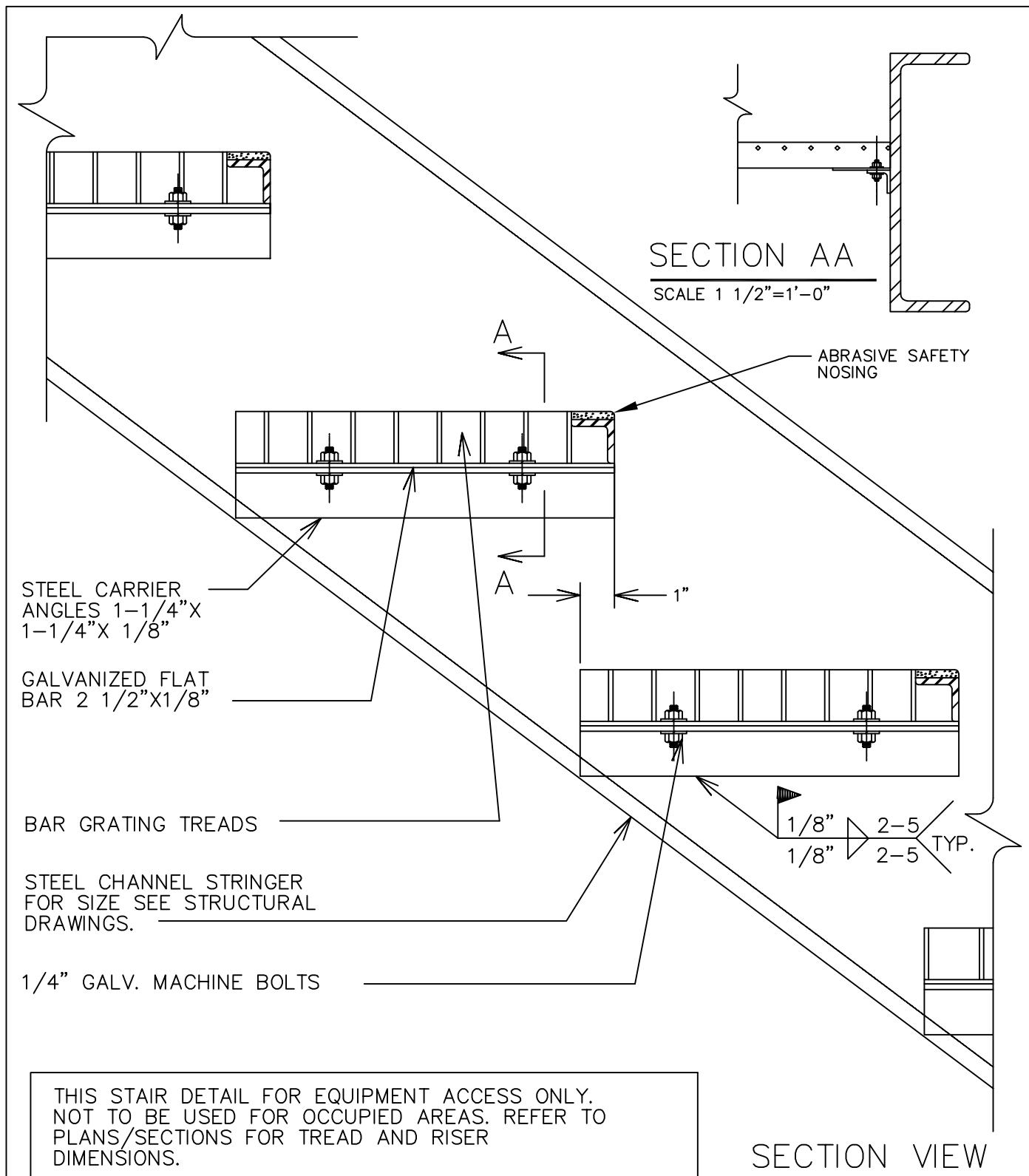


NOTES:

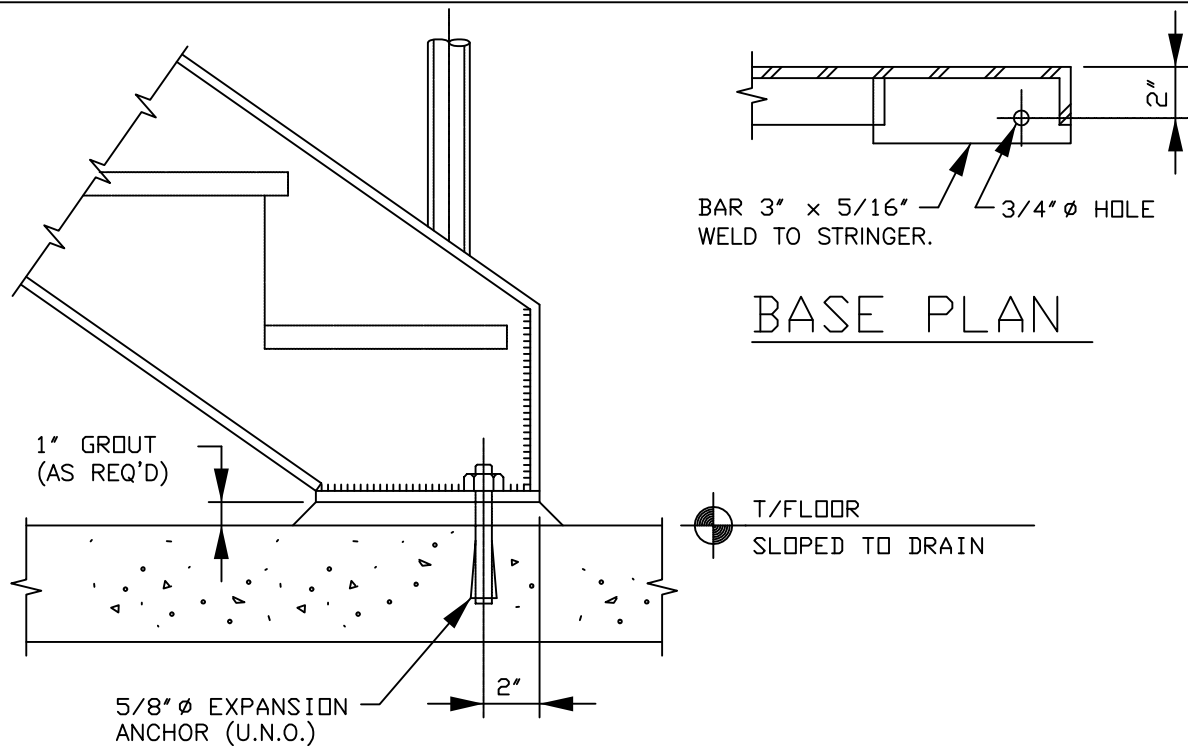
- (1) ON INTERIOR STAIRS, TOP AND BOTTOM TREADS ON EACH FLIGHT TO RECEIVE 2" WIDE CONTRASTING COLOR STRIPE
- (2) AT EXTERIOR STAIRS, PROVIDE STRIPE AT EACH TREAD

SECTION VIEW

LOCKHEED MARTIN SPACE SYSTEMS		V2-502	REV.
			3
FACILITY OPERATIONS & SERVICES		DRAWN D.KAEINI	DATE 8/5/2014
DWG TITLE: METAL PAN STAIRS, WITH SAFETY TYPE TREAD NOSING		CHECKED M.DOOLEY	8/11/2014
		APPROVED M.DOOLEY	8/11/2014
SCALE: 3"=1'-0"	CAD. ID. V2-502.dwg	ER NO.	SHT. OF 1

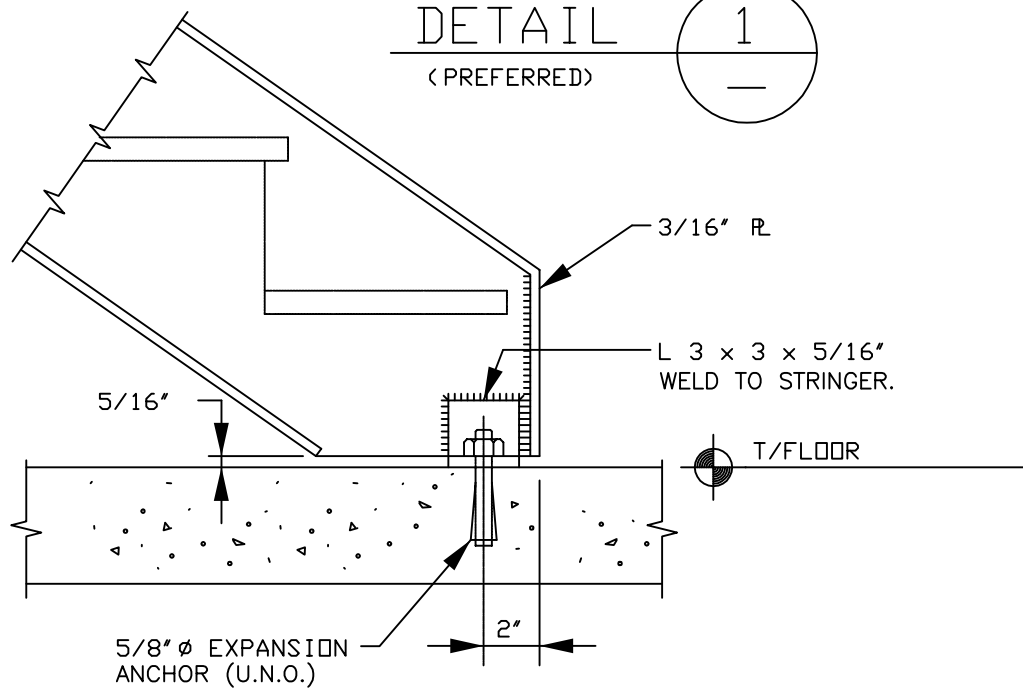
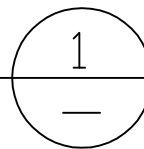


LOCKHEED MARTIN SPACE SYSTEMS		V2-503		REV.	2
				DATE	02/88
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	LARRY GEER		
DWG TITLE: METAL GRATING STEEL STAIRS WITH SAFETY TREAD NOSING		CHECKED			
ALL FACILITIES		APPROVED			
SCALE: 3"=1'-0"	CAD. ID. V2-503.dwg	ER NO.		SHT. OF	1

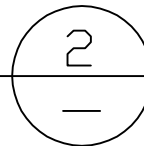


BASE PLAN

DETAIL 1 (PREFERRED)



DETAIL 2



LOCKHEED MARTIN
SPACE SYSTEMS



V2-504

REV.

0

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN G. BRUFMAN

01-20-93

DWG TITLE: STAIR BOTTOM DETAILS AT CONCRETE

CHECKED

ALL FACILITIES

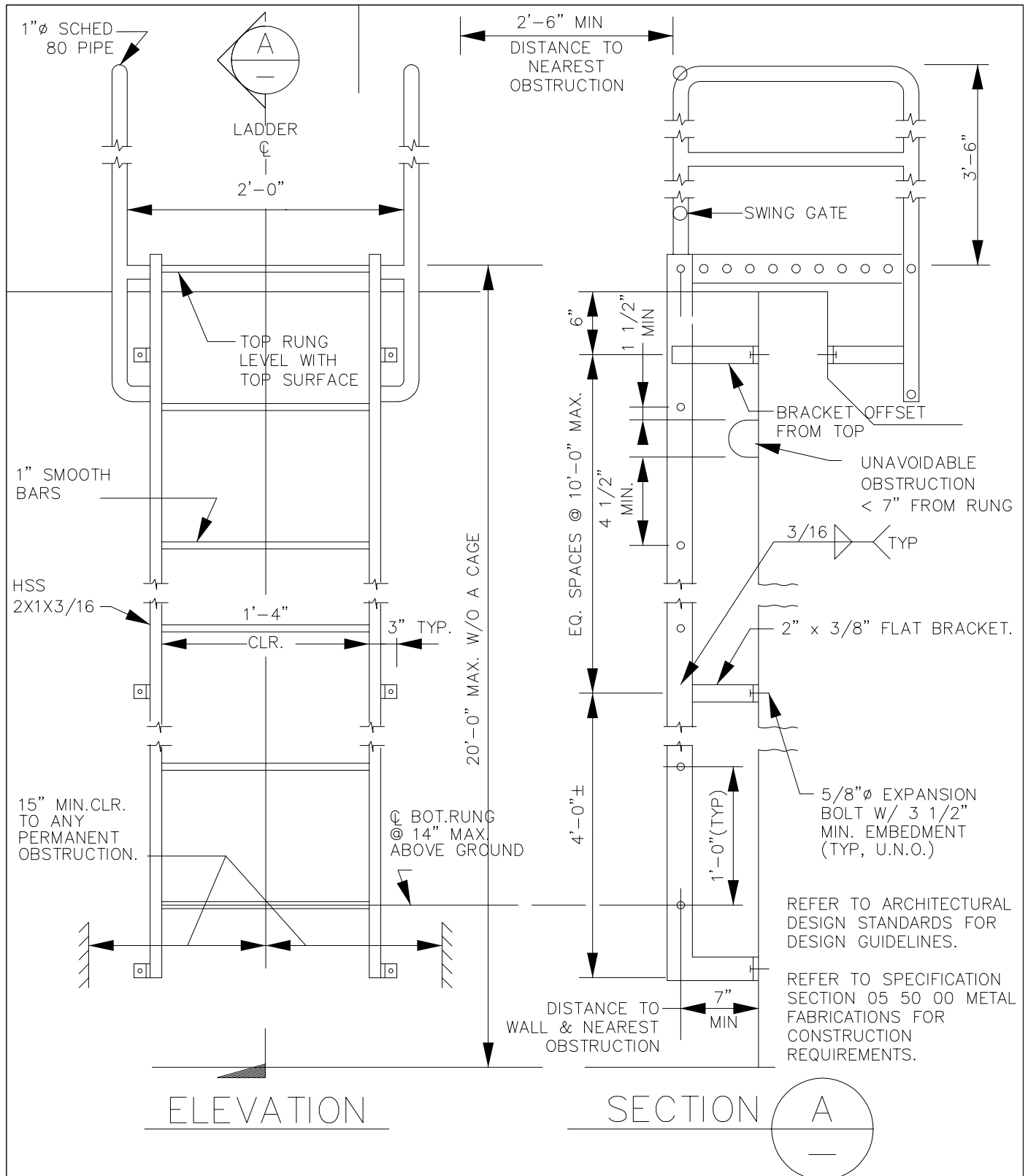
APPROVED

SCALE: NONE

CAD. ID. V2-504.dwg

ER NO.

SHT. OF 1



LOCKHEED MARTIN
SPACE SYSTEMS



V2-505

REV.

2

DATE

4-14

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN M.DOOLEY

DWG TITLE: STANDARD LADDER DETAILS

CHECKED

ALL FACILITIES

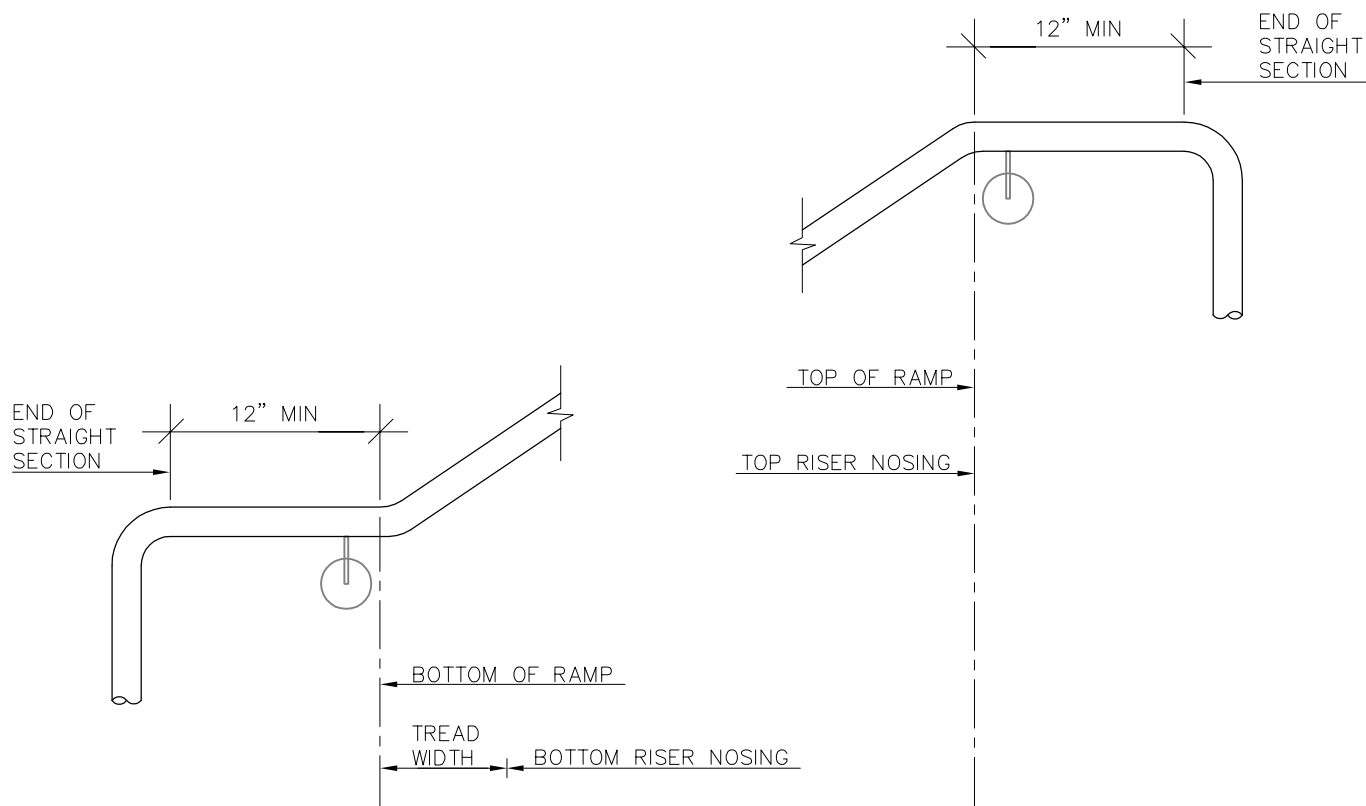
APPROVED

SCALE: NONE

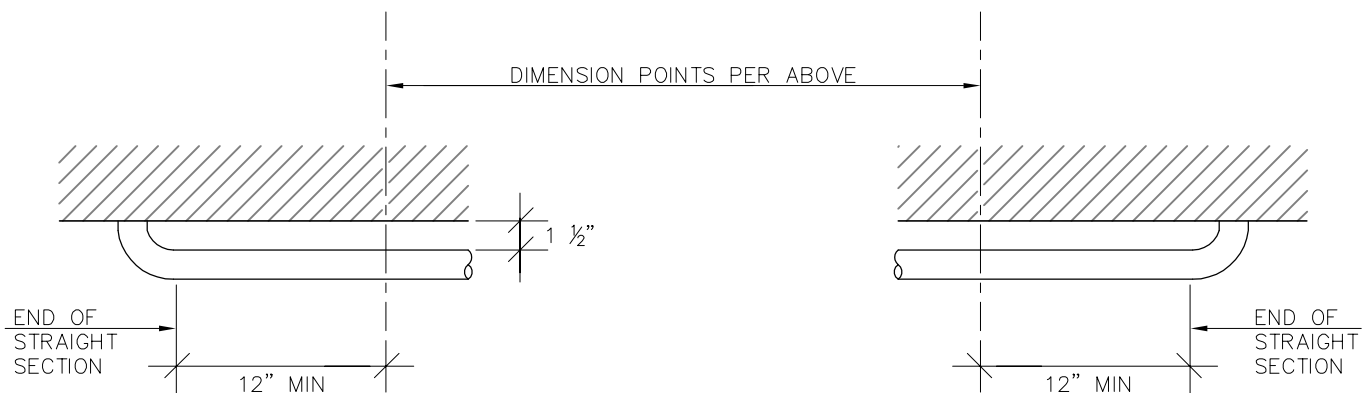
CAD. ID. V2-505.dwg

ER NO.

SHT. OF 1

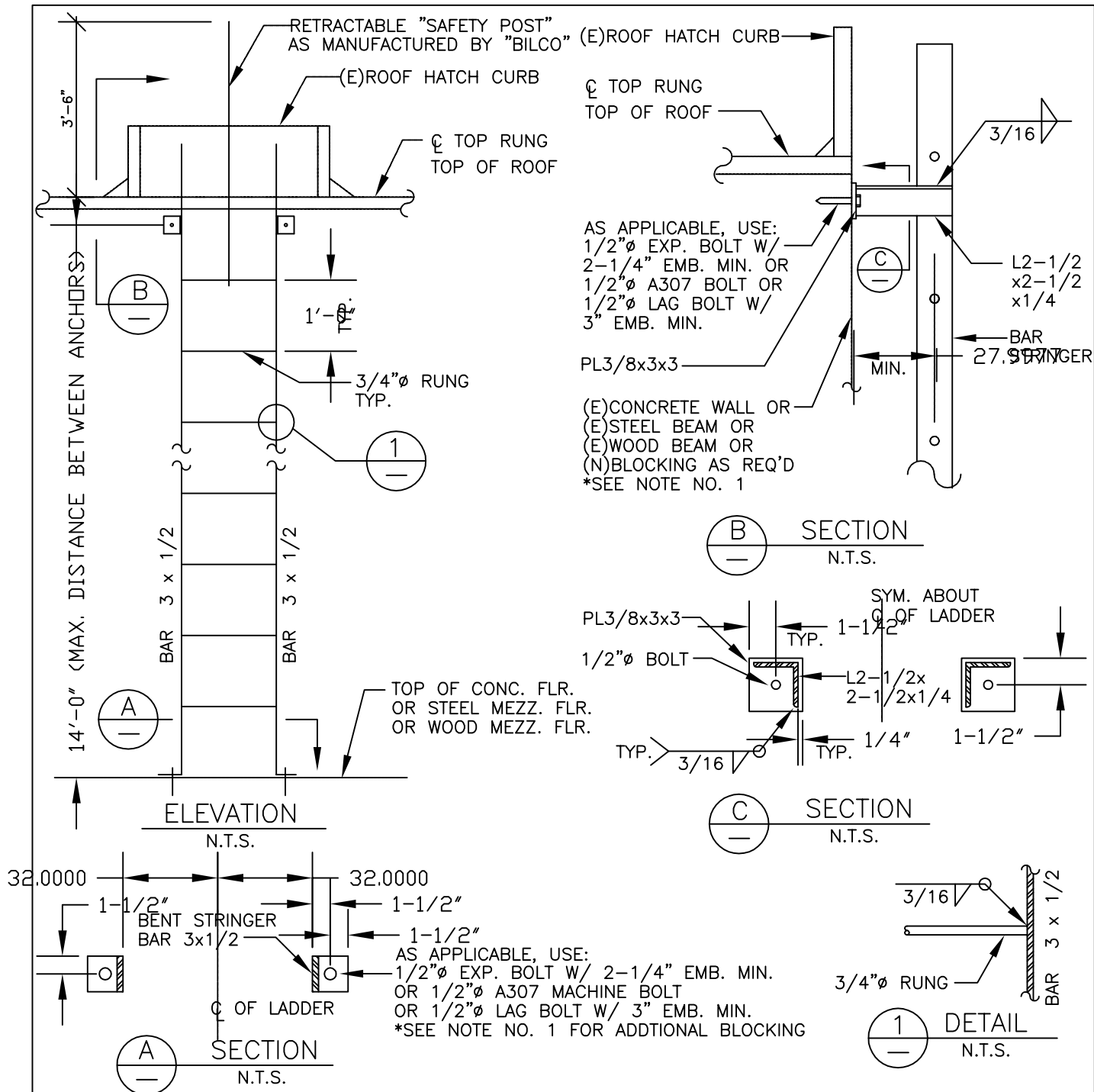


ELEVATION OF HANDRAIL RETURN TO FLOOR



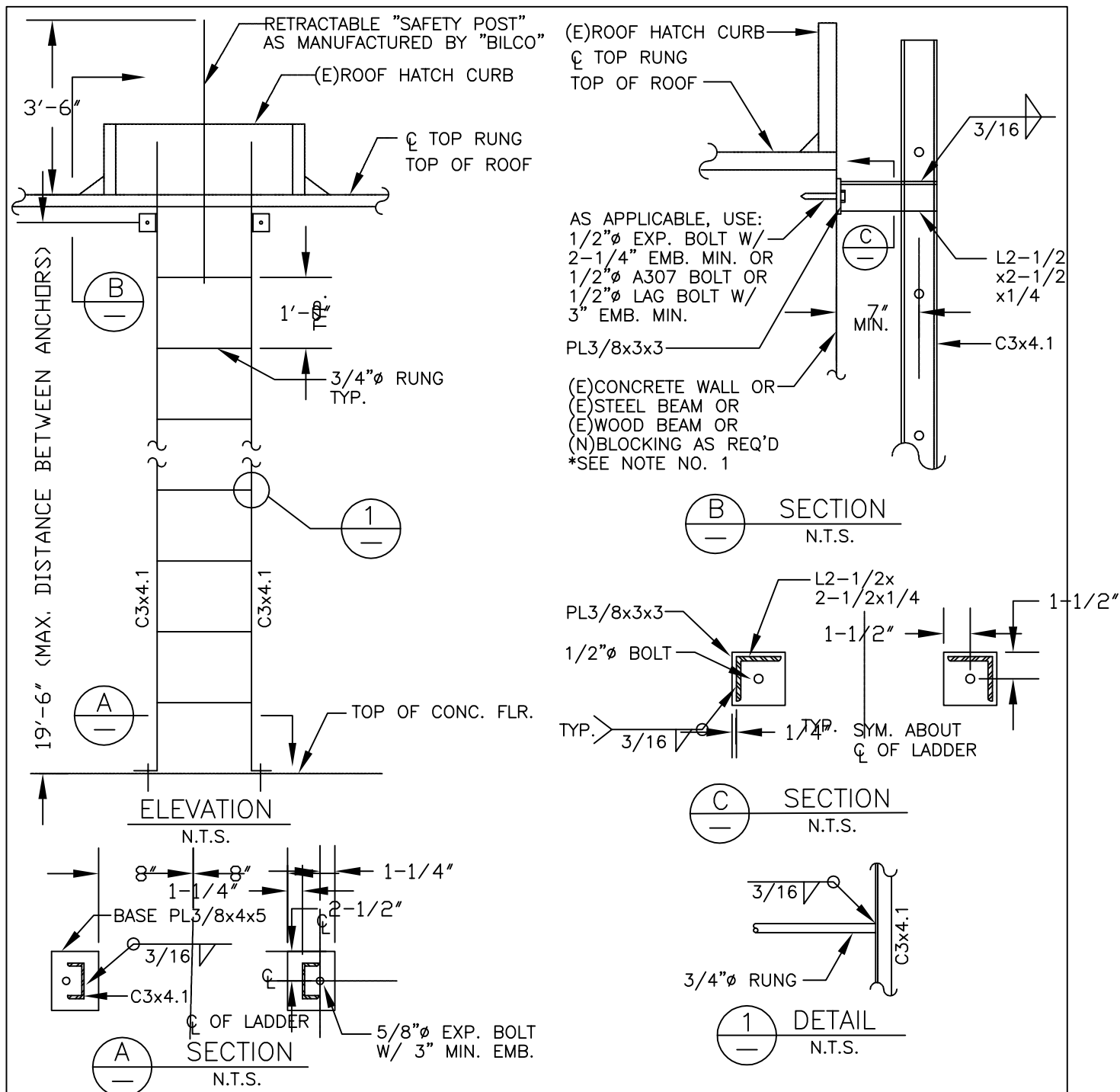
PLAN OF HANDRAIL RETURN TO WALL

LOCKHEED MARTIN SPACE SYSTEMS		V2-510	REV.
			0
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN SERGIO SEGURA	8/19/2014
DWG TITLE: HANDRAIL EXTENSION DETAIL		CHECKED BERT PALMON	8/20/2014
ALL FACILITIES		APPROVED MIKE DOOLEY	8/21/2014
SCALE: NONE	CAD. ID. V2-510.dwg	ER NO.	SHT. OF 1



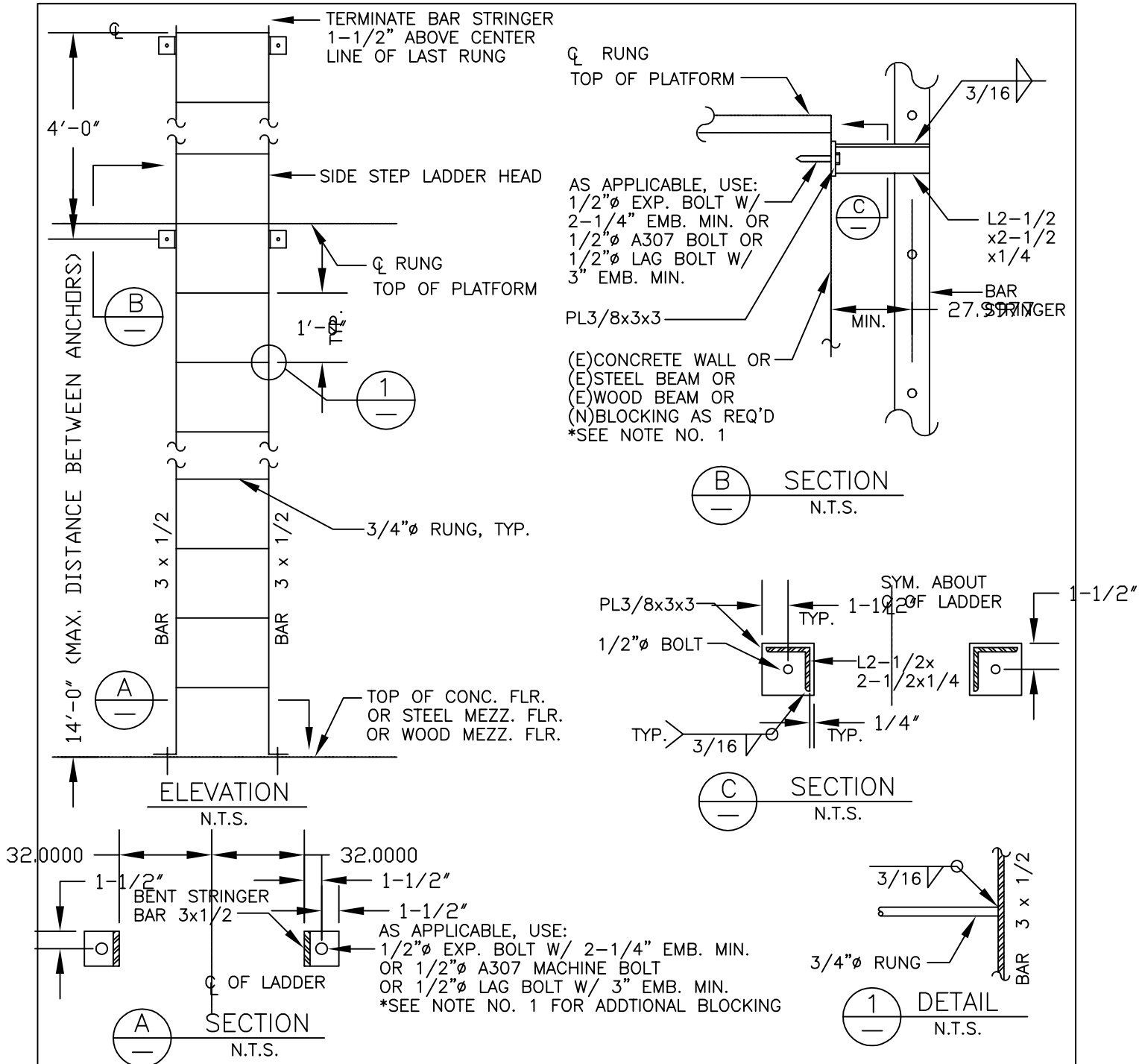
1. THE BLOCKING TO BE INSTALLED, AS REQUIRED, TO ANCHOR THE LADDER SHALL BE AS FOLLOWS:
 - a. WOOD STUD WALL OR WOOD FLOOR JOIST:
 USE 4x4 D.F. NO.1 SOLID BLOCKING (MINIMUM), ANCHORED IN BETWEEN WOOD STUDS OR WOOD FLOOR JOIST, USING "SIMPSON" FRAMING CONNECTORS.
 - b. METAL STUD WALL:
 USE PL1/4x6x4'-0" MINIMUM, ANCHORED TO AT LEAST 3 METAL STUDS. SAID PLATE MAY BE PLACED ON THE SURFACE OF THE WALL AND PAINTED THE SAME COLOR AS THE LADDER.

LOCKHEED MARTIN SPACE SYSTEMS		V2-506		REV.
				0
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	SILVIA SANTOS	DATE
DWG TITLE: TYPICAL ROOF HATCH LADDER - 1		CHECKED		
ALL FACILITIES		APPROVED		
SCALE: AS SHOWN	CAD. ID. V2-506.dwg	ER NO.		SHT. OF 1



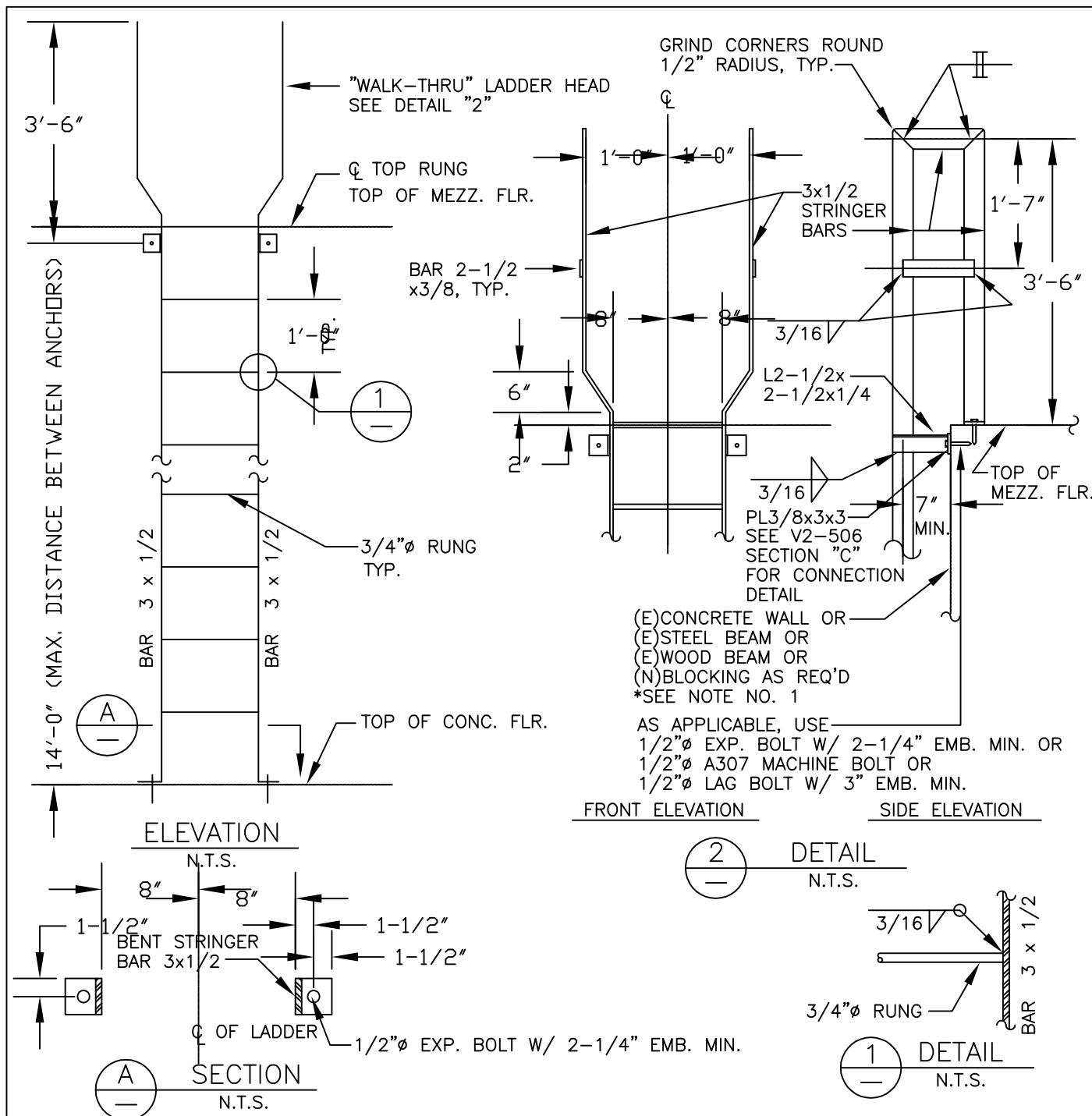
1. THE BLOCKING TO BE INSTALLED, AS REQUIRED, TO ANCHOR THE LADDER SHALL BE AS FOLLOWS:
 - a. WOOD STUD WALL OR WOOD FLOOR JOIST:
 USE 4x4 D.F. NO.1 SOLID BLOCKING (MINIMUM), ANCHORED IN BETWEEN WOOD STUDS OR WOOD FLOOR JOIST, USING "SIMPSON" FRAMING CONNECTORS.
 - b. METAL STUD WALL:
 USE PL1/4x6x4'-0" MINIMUM, ANCHORED TO AT LEAST 3 METAL STUDS. SAID PLATE MAY BE PLACED ON THE SURFACE OF THE WALL AND PAINTED THE SAME COLOR AS THE LADDER.

LOCKHEED MARTIN SPACE SYSTEMS		V2-507		REV.
				DATE
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	SILVIA SANTOS	9-1-92
DWG TITLE: TYPICAL ROOF HATCH LADDER-2		CHECKED		
ALL FACILITIES		APPROVED		
SCALE: AS SHOWN	CAD. ID. V2-507.DWG	ER NO.		SHT. OF 1



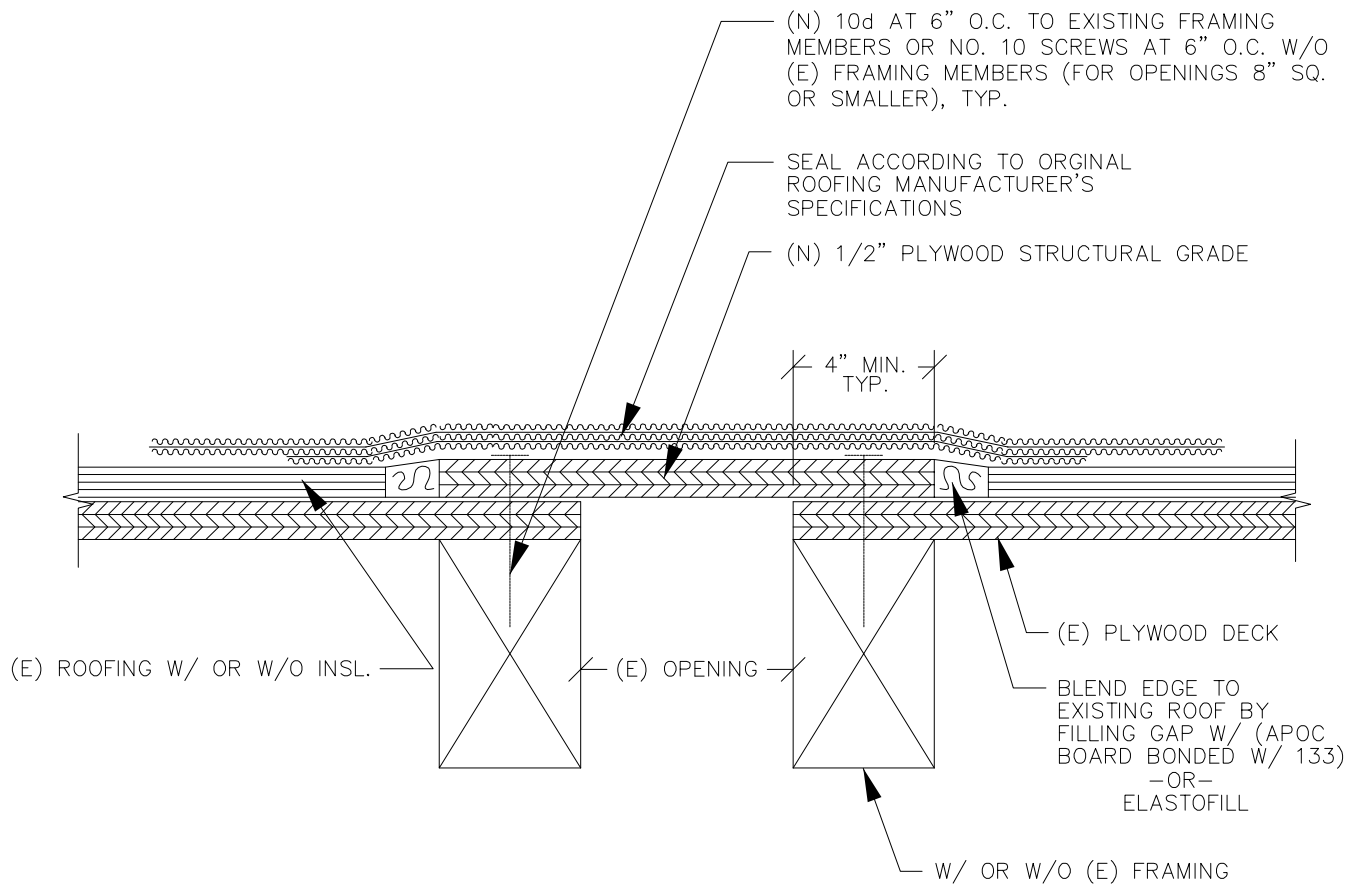
1. THE BLOCKING TO BE INSTALLED, AS REQUIRED, TO ANCHOR THE LADDER SHALL BE AS FOLLOWS:
 - a. WOOD STUD WALL OR WOOD FLOOR JOIST:
USE 4x4 D.F. NO.1 SOLID BLOCKING (MINIMUM), ANCHORED IN BETWEEN WOOD STUDS OR WOOD FLOOR JOIST, USING "SIMPSON" FRAMING CONNECTORS.
 - b. METAL STUD WALL:
USE PL1/4x6x4'-0" MINIMUM, ANCHORED TO AT LEAST 3 METAL STUDS. SAID PLATE MAY BE PLACED ON THE SURFACE OF THE WALL AND PAINTED THE SAME COLOR AS THE LADDER.

LOCKHEED MARTIN SPACE SYSTEMS		V2-508		REV.
				0
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	S.SANTOS	DATE
DWG TITLE: TYPICAL SIDE-STEP LADDER		CHECKED		9/92
ALL FACILITIES		APPROVED		
SCALE: AS-SHOWN	CAD. ID. V2-508.DWG	ER NO.		SHT. OF 1



1. THE BLOCKING TO BE INSTALLED, AS REQUIRED, TO ANCHOR THE LADDER SHALL BE AS FOLLOWS:
 - a. WOOD STUD WALL OR WOOD FLOOR JOIST:
USE 4x4 D.F. NO.1 SOLID BLOCKING (MINIMUM), ANCHORED IN BETWEEN WOOD STUDS OR WOOD FLOOR JOIST, USING "SIMPSON" FRAMING CONNECTORS.
 - b. METAL STUD WALL:
USE PL1/4x6x4'-0" MINIMUM, ANCHORED TO AT LEAST 3 METAL STUDS. SAID PLATE MAY BE PLACED ON THE SURFACE OF THE WALL AND PAINTED THE SAME COLOR AS THE LADDER.

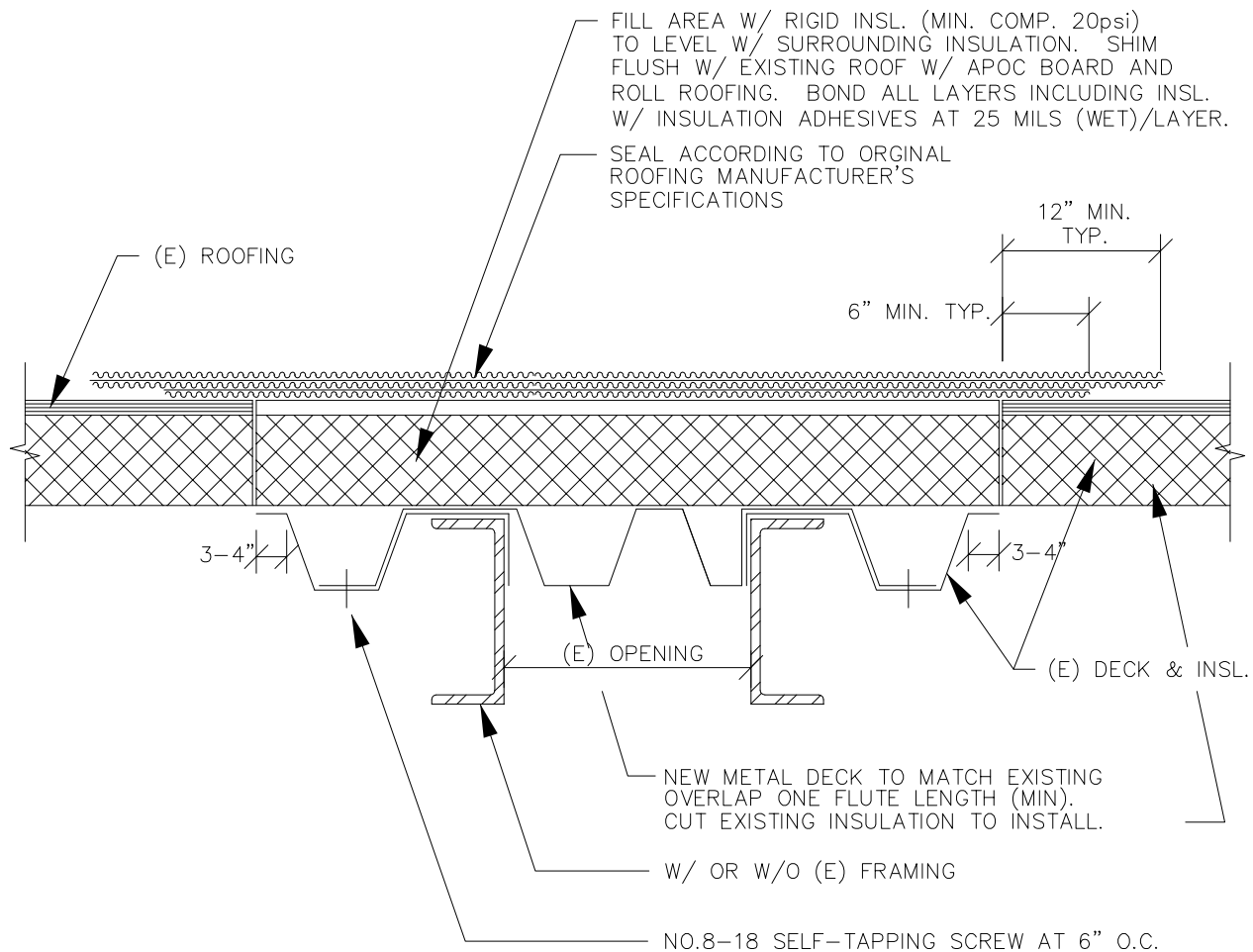
LOCKHEED MARTIN SPACE SYSTEMS		V2-509		REV.	0
				DATE	
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	SILVIA SANTOS	09-92	
DWG TITLE: TYPICAL WALK-THRU LADDER		CHECKED			
ALL FACILITIES		APPROVED			
SCALE:	AS SHOWN	CAD. ID.	V2-509.dwg	ER NO.	SHT. OF 1



NOTES:

1. PROVIDE NEW FRAMING WHEN OPENING EXCEEDS 8" SQ. CONSULT STRUCTURAL ENGINEER FOR FRAMING DETAILS.

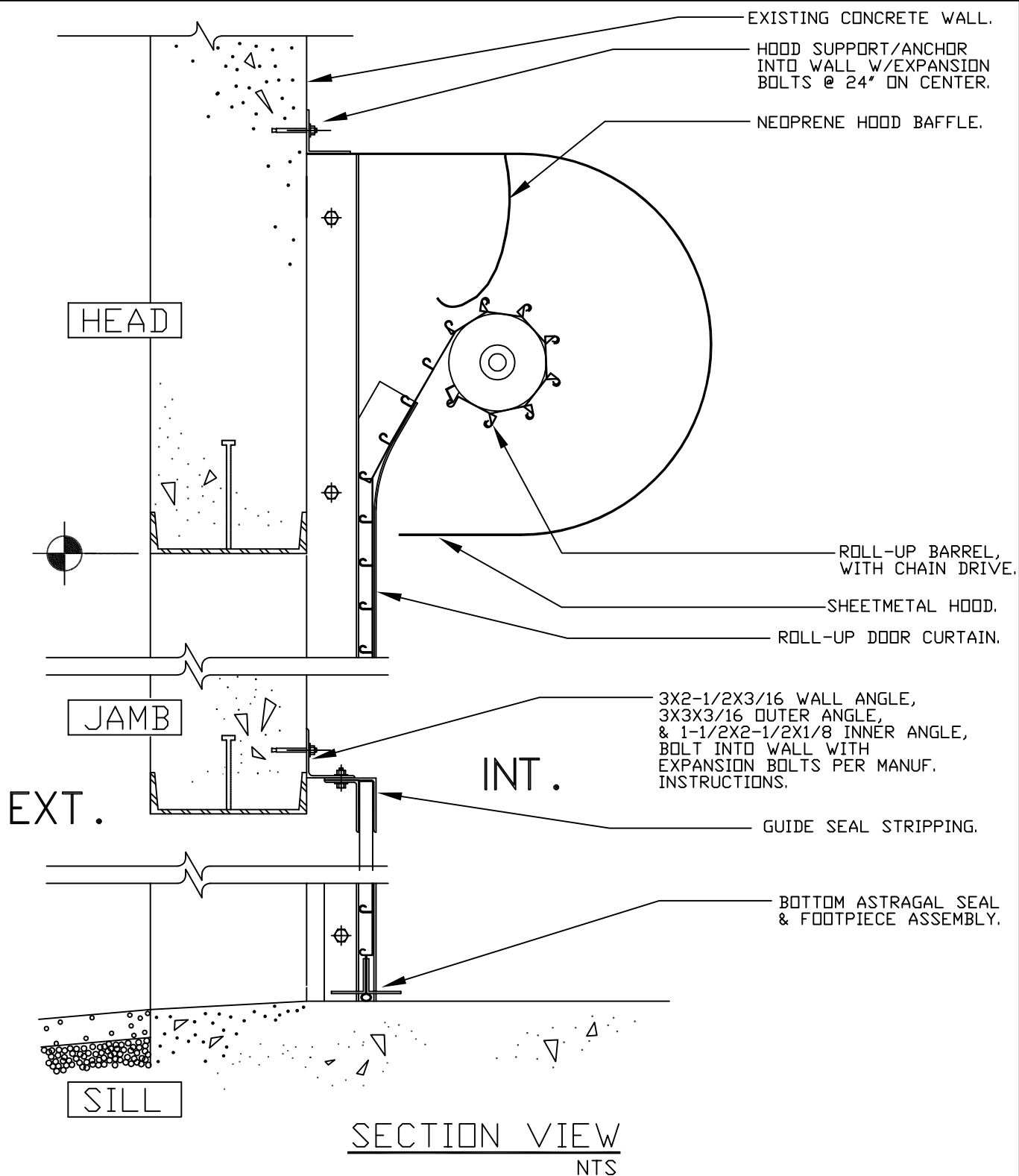
LOCKHEED MARTIN SPACE SYSTEMS		V2-617		REV.
				3
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	B.PALMON	DATE
DWG TITLE: ROOF PATCH DETAIL - WOOD ROOF STRUCTURE		CHECKED		5-19-11
ALL FACILITIES		APPROVED		
SCALE: NONE	CAD. ID. V2-617.dwg	ER NO.		SHT. OF



NOTES:

1. PROVIDE NEW FRAMING WHEN OPENING EXCEEDS 8" SQ. CONSULT STRUCTURAL ENGINEER FOR FRAMING DETAILS.

LOCKHEED MARTIN SPACE SYSTEMS		V2-618	REV.
			3
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN B.PALMON	DATE
DWG TITLE: ROOF PATCH DETAIL - STEEL ROOF STRUCTURE		CHECKED	5-19-11
ALL FACILITIES		APPROVED	
SCALE: NONE	CAD. ID. V2-618.dwg	ER NO.	SHT. OF 1 1



LOCKHEED MARTIN
SPACE SYSTEMS



V2-700

REV.

1

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN FRANK KREIS

09-21-90

DWG TITLE: EXTERIOR ROLL-UP DOOR (INTERIOR MOUNTED)

CHECKED

ALL FACILITIES

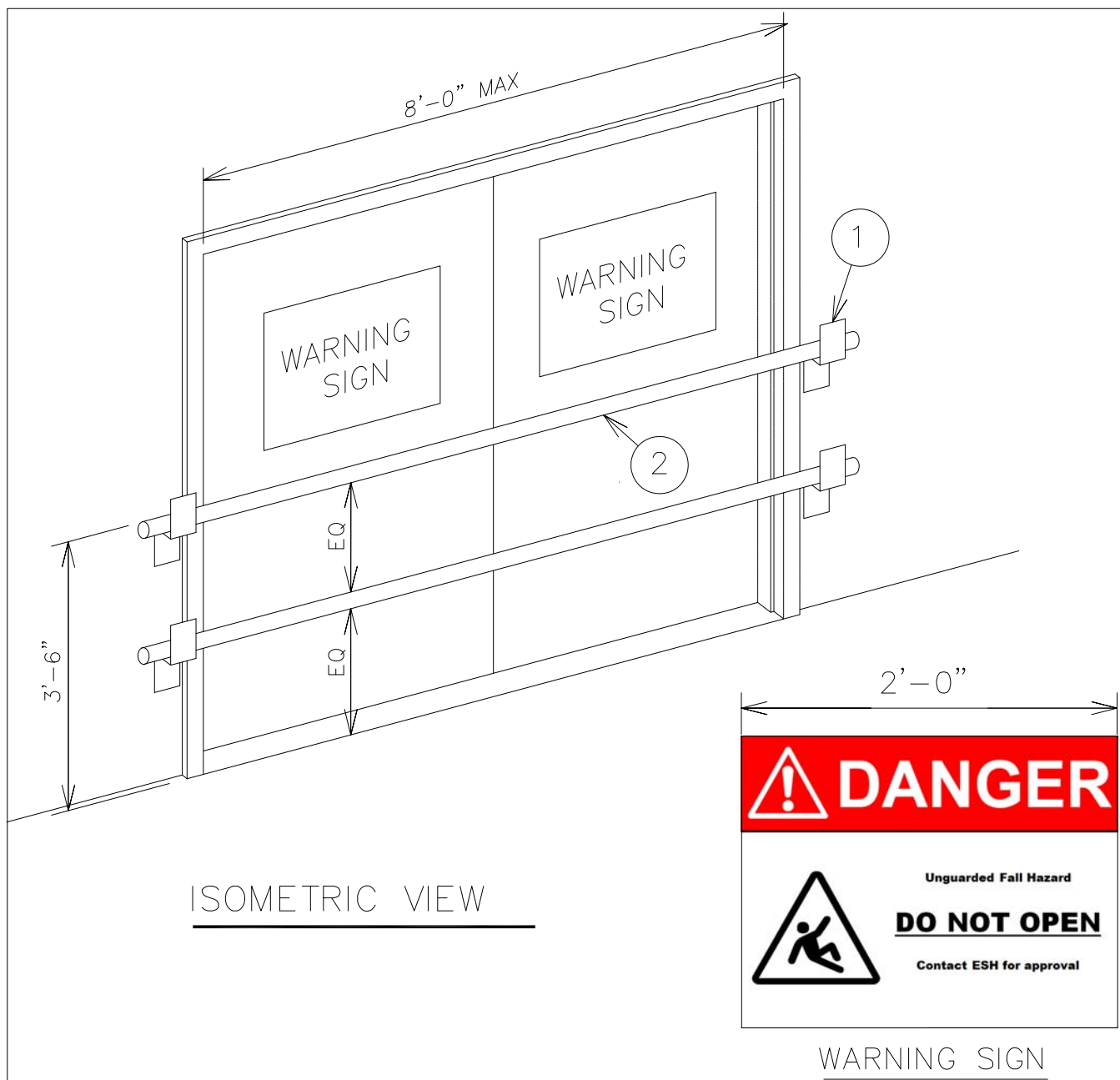
APPROVED

SCALE: N.T.S.

CAD. ID. V2-700.dwg

ER NO.

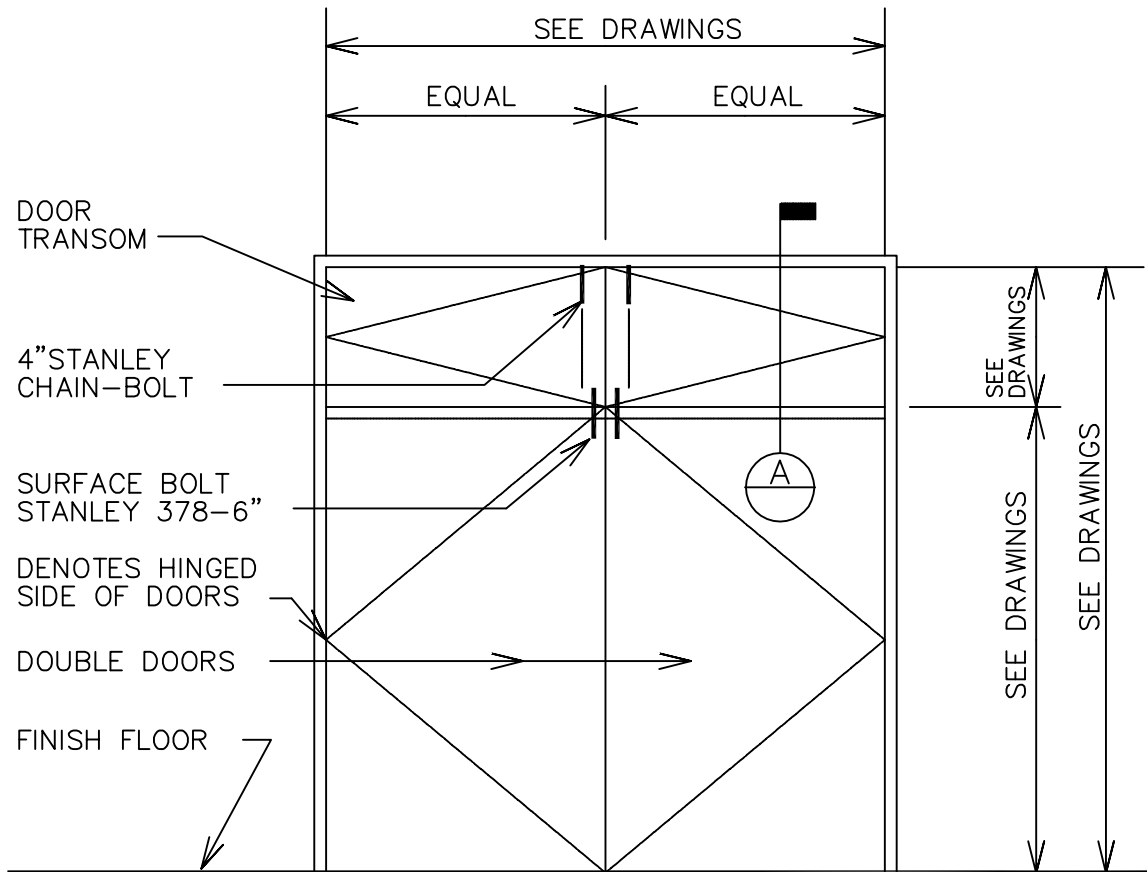
SHT. OF 1



DOOR BARS ARE INTENDED TO PROTECT WORKERS FROM FALL WHILE MEZZANINE MATERIAL ACCESS DOORS OPENING TO FLOOR BELOW ARE OPEN, IN PREPARATION FOR MOVING MATERIAL TO AND FROM MEZZANINE WITH LIFT. COMPLY WITH OSHA AND BUILDING CODE REQUIREMENTS FOR GUARDS.

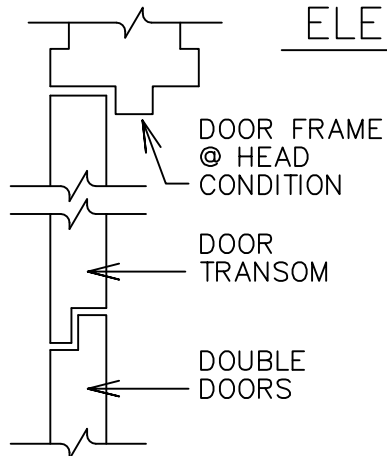
- ① DOOR BAR BRACKETS. SEVERAL STYLES ARE AVAILABLE AND MAY BE SUBSTITUTED FOR STYLE SHOWN. SUBMIT TO LMSSC STRUCTURAL ENGINEER FOR APPROVAL. PROVIDE SOLID BACKING WITHIN WALL FOR ATTACHMENT. PROVIDE SPACERS IF REQUIRED TO CLEAR DOOR FRAME.
- ② 1 1/2" OD SCHEDULE 80 ALUMINUM PIPE OR MATERIAL OF EQUIVALENT STRENGTH.

LOCKHEED MARTIN SPACE SYSTEMS		V2-701		REV.
				2
FACILITY OPERATIONS & SERVICES		DRAWN	D.KAEINI	DATE
DWG TITLE: SAFETY BAR DETAIL FOR DOUBLE OR SINGLE DOOR		CHECKED	M.DOOLEY	8/5/2014
ALL FACILITIES		APPROVED	M.DOOLEY	
SCALE: N.T.S.	CAD. ID. V2-701.dwg	ER NO.		SHT. OF 1



ELEVATION

N.T.S.



SECTION DETAIL

3"=1'-0"

HARDWARE FOR TRANSOM

- (2) PAIRS BUTTS A 2714 4-1/2 X 4-1/2, FINISH: 612
- (2) SURFACE BOLTS, FINISH: 612
- (2) CHAIN BOLTS 1055-6" STANLEY FINISH TO MATCH

SEE SPECIFICATIONS, SECTION 08710 FOR OTHER FINISH DOOR HARDWARE.

LOCKHEED MARTIN
SPACE SYSTEMS



V2-702

REV.

1

DATE

01/88

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN LARRY GEER

DWG TITLE: TYPICAL WOOD SERVICE DOOR W/TRANSOM

CHECKED

ALL FACILITIES

APPROVED

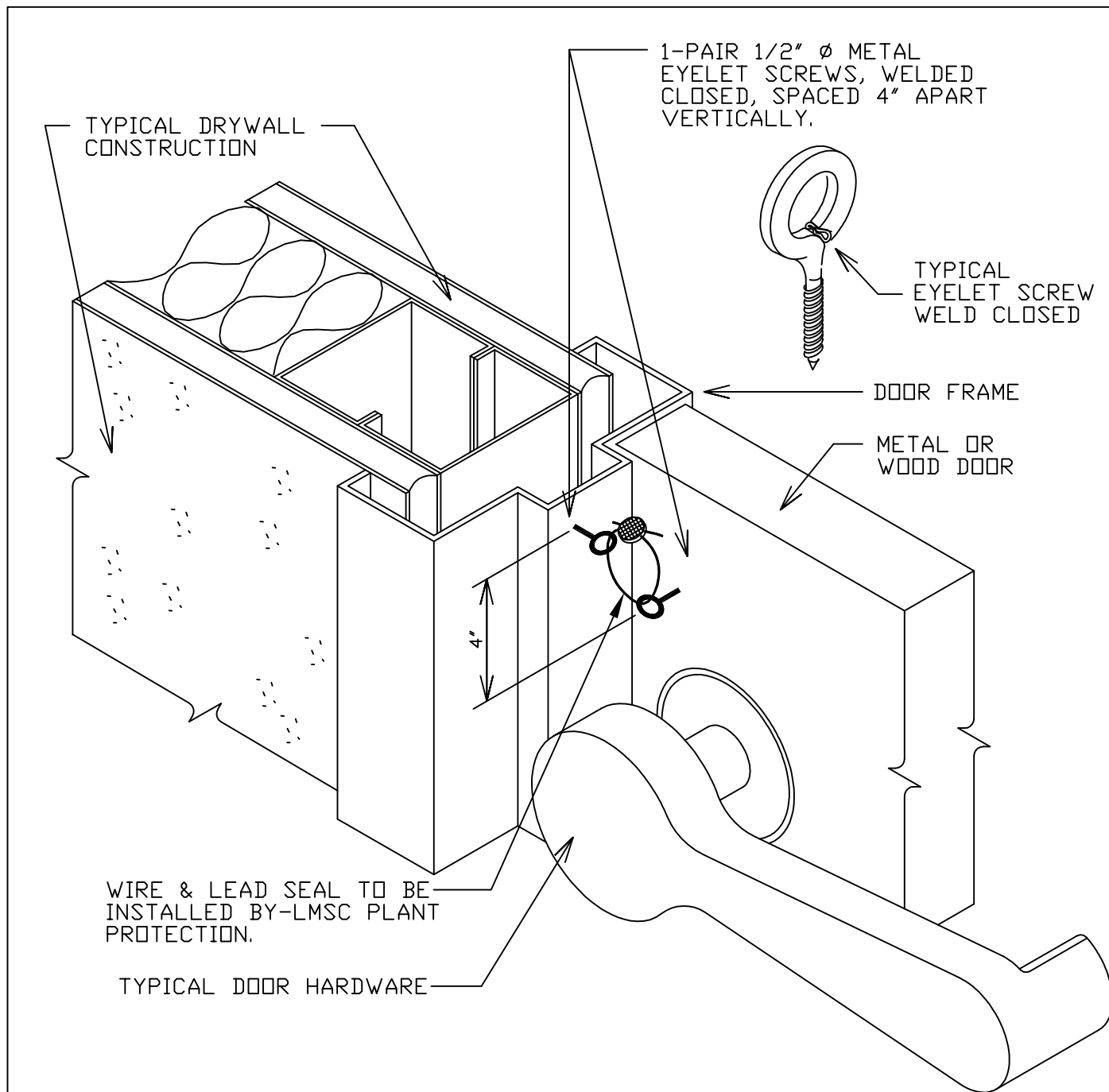
SCALE: AS SHOWN

CAD. ID. V2-702.dwg

ER NO.

SHT. OF

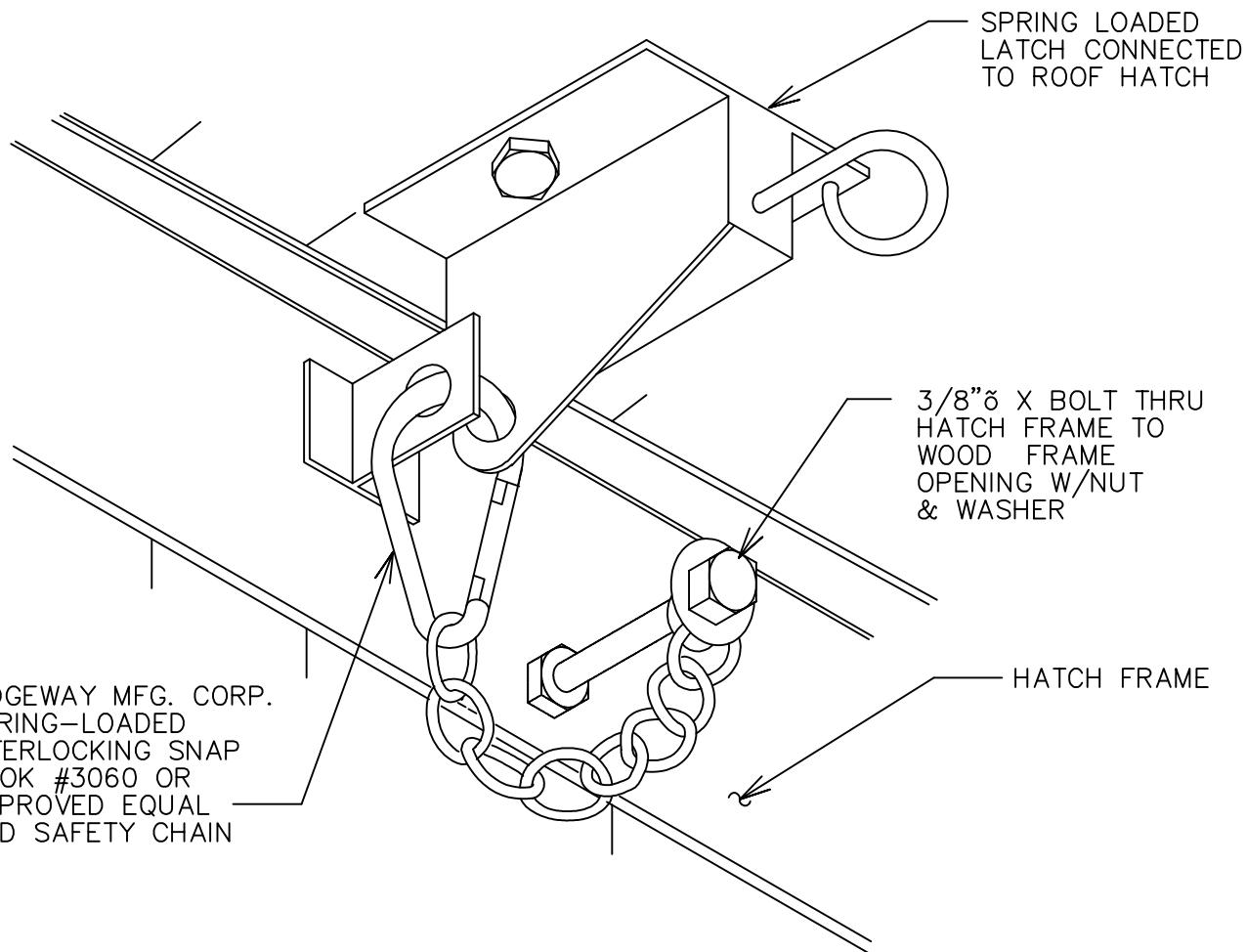
1



ISOMETRIC VIEW - NTS

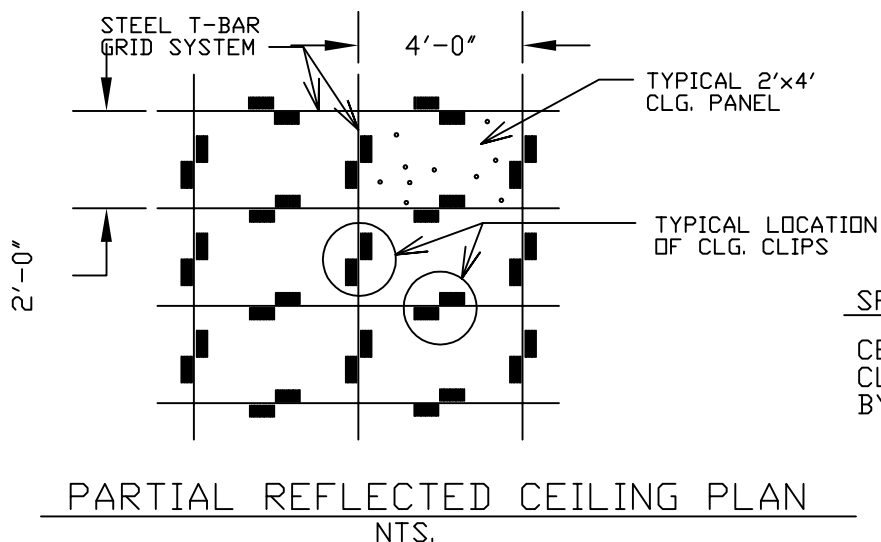
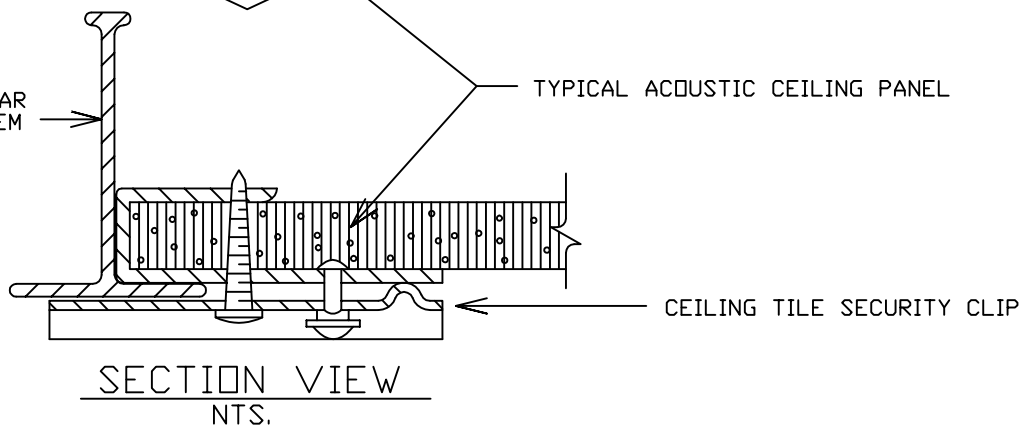
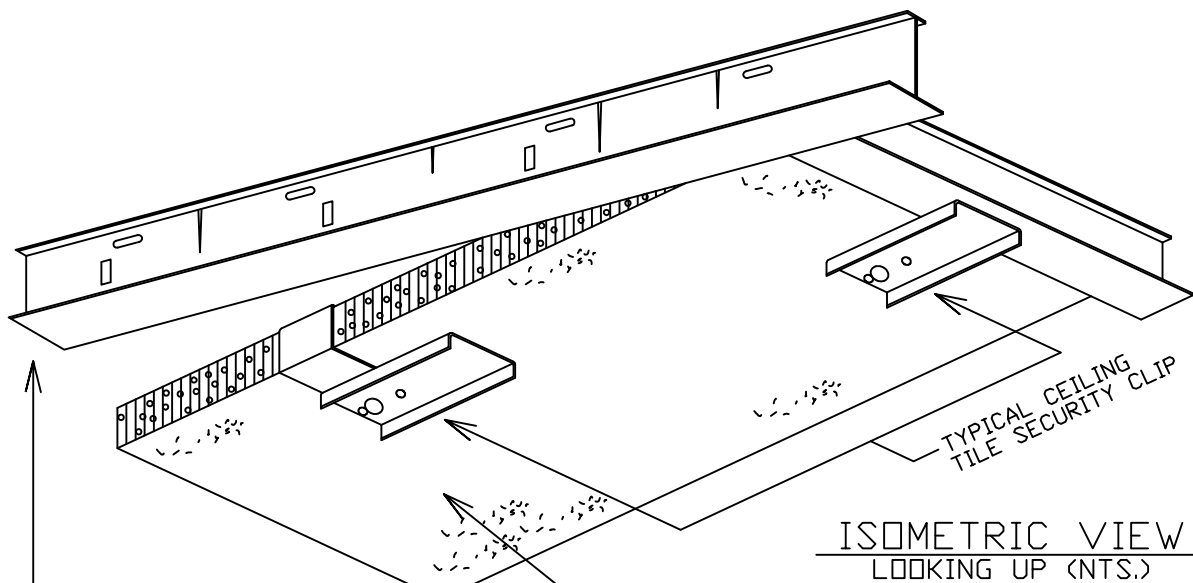
NOTE: EYELET SCREWS REQUIRED ON ALL EMERGENCY EXIT DOORS.

LOCKHEED MARTIN SPACE SYSTEMS		V2-703		REV.
				1
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	LARRY GEER	DATE
DWG TITLE: SECURITY- EXIT DOOR SEAL (EYELET SCREW DETAIL)		CHECKED		01-88
ALL FACILITIES		APPROVED		
SCALE: N.T.S.	CAD. ID. V2-703.dwg	ER NO.		SHT. OF 1



ISOMETRIC VIEW LOOKING UP
NTS.

LOCKHEED MARTIN SPACE SYSTEMS		V2-708	REV.
			1
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN LARRY GEER	DATE
DWG TITLE: ROOF HATCH SNAP HOOK ASSEMBLY		CHECKED	01-88
ALL FACILITIES		APPROVED	
SCALE: N.T.S.	CAD. ID. V2-708.dwg	ER NO.	SHT. OF 1



SPECIFICATIONS:

CEILING TILE SECURITY
CLIPS SHALL BE MANUFACTURED
BY: YOU-NIQUE COMPANY
5111 ROXBOROUGH
PLACENTIA, CA 92670
OR APPROVED EQUAL.

LOCKHEED MARTIN
SPACE SYSTEMS



V2-714

REV.

1

DATE

11/87

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN LARRY GEER

DWG TITLE: CEILING TILE SECURITY CLIPS

CHECKED

ALL FACILITIES

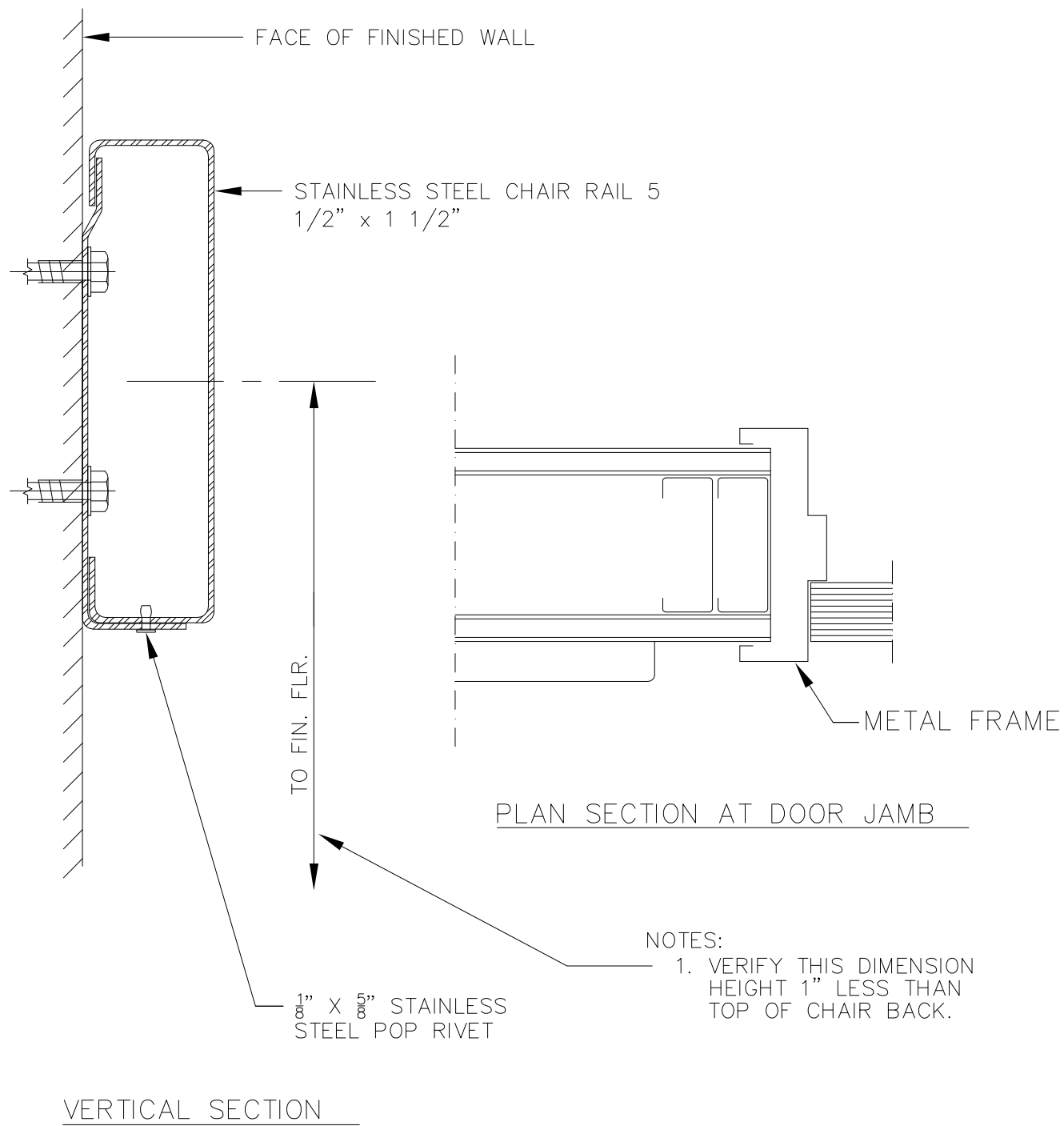
APPROVED

SCALE: NTS

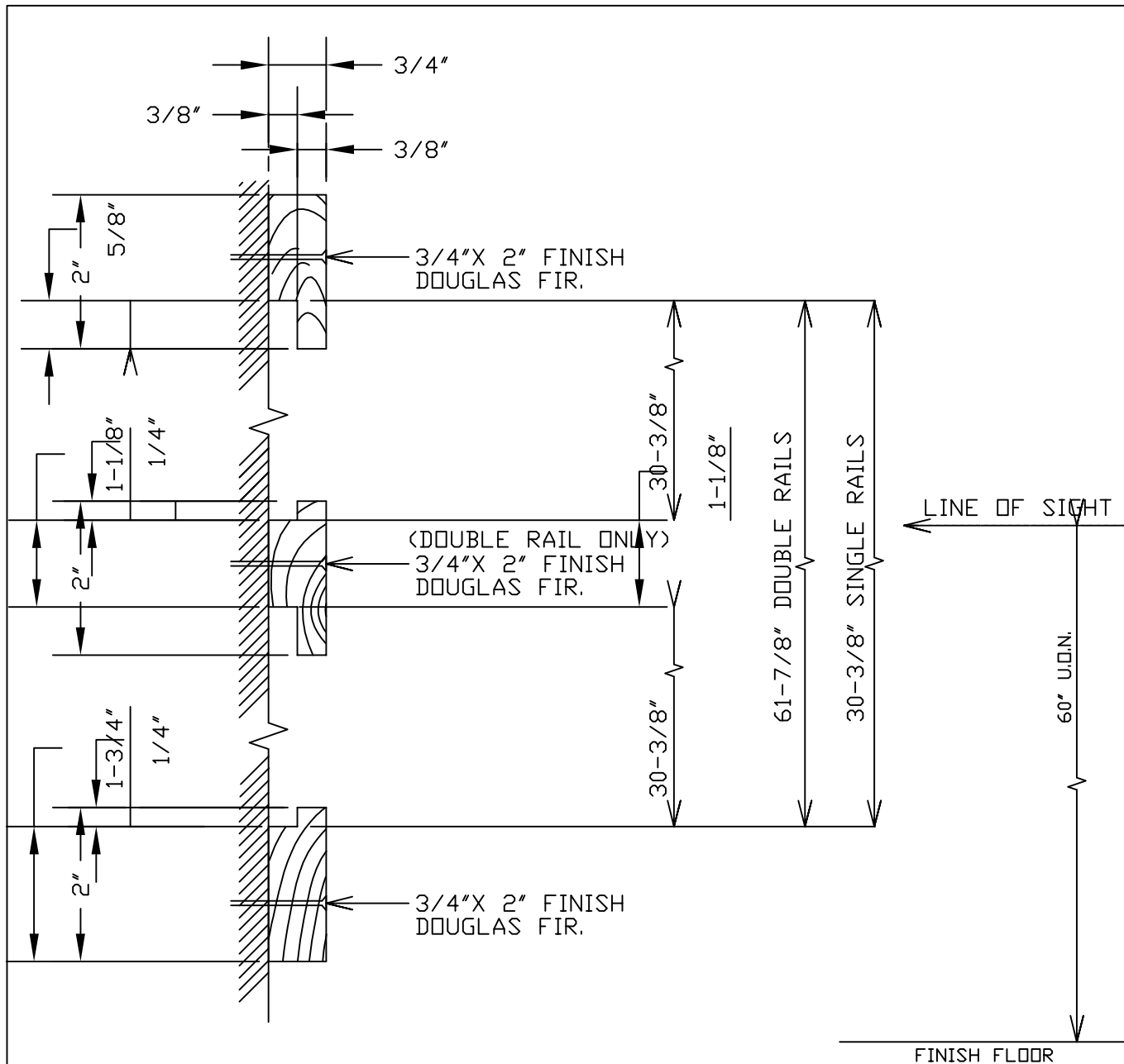
CAD. ID. V2-714.dwg

ER NO.

SHT. OF 1



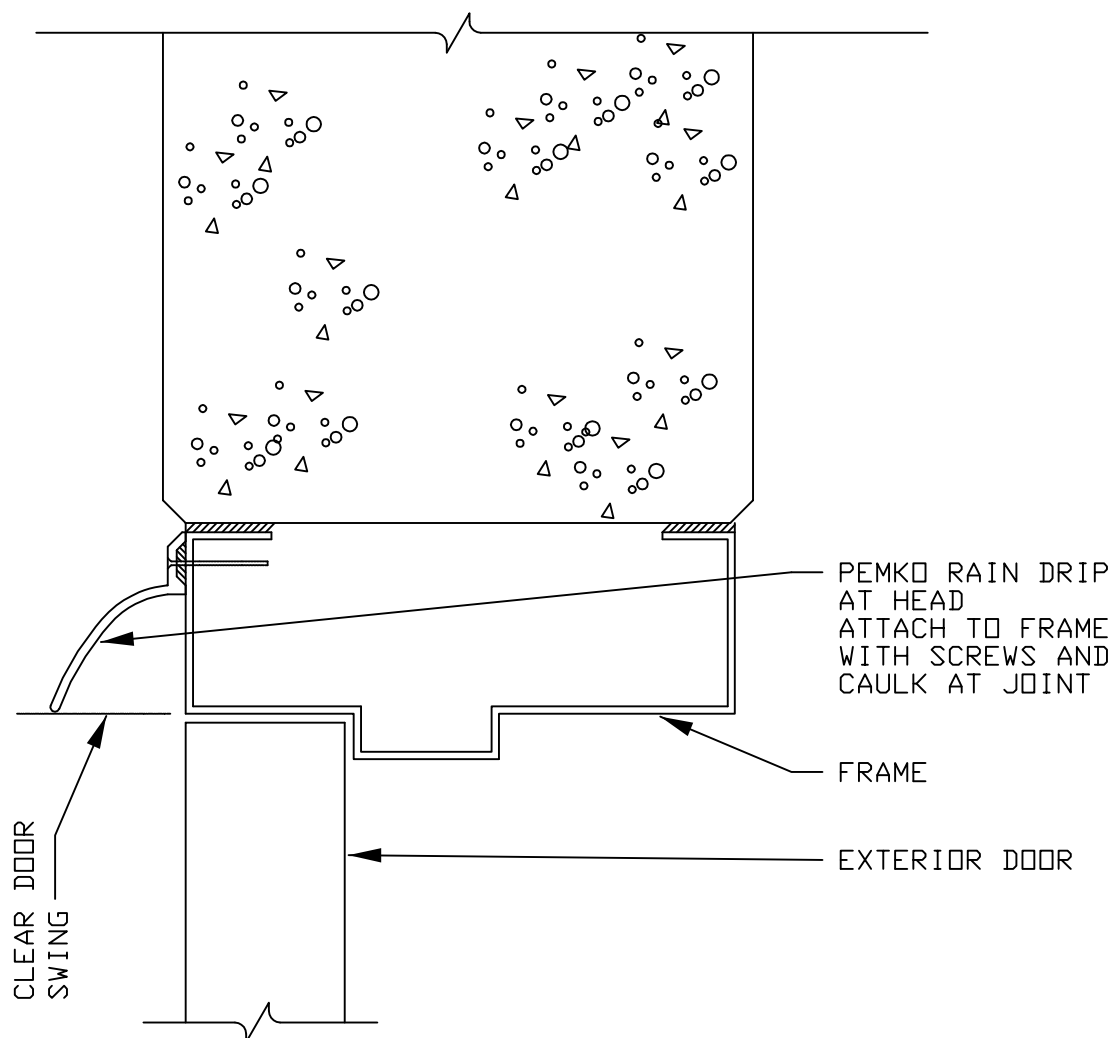
LOCKHEED MARTIN SPACE SYSTEMS		V2-716		REV.
				4
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	S. SEGURA	05-09-12
DWG TITLE: CHAIR RAIL		CHECKED	M. DOOLEY	05-09-12
ALL FACILITIES		APPROVED	M. DOOLEY	05-10-12
SCALE: N.T.S.	CAD. ID. V2-716.dwg	ER NO.		SHT. OF



NOTES:

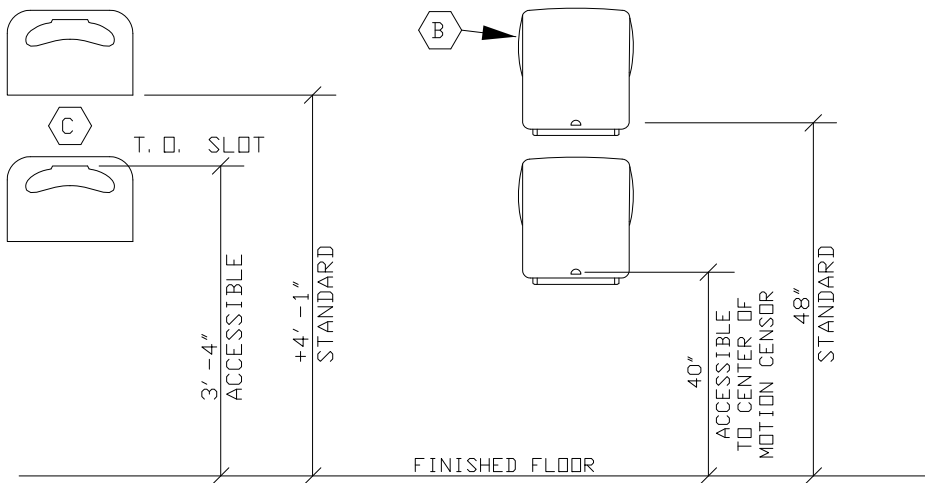
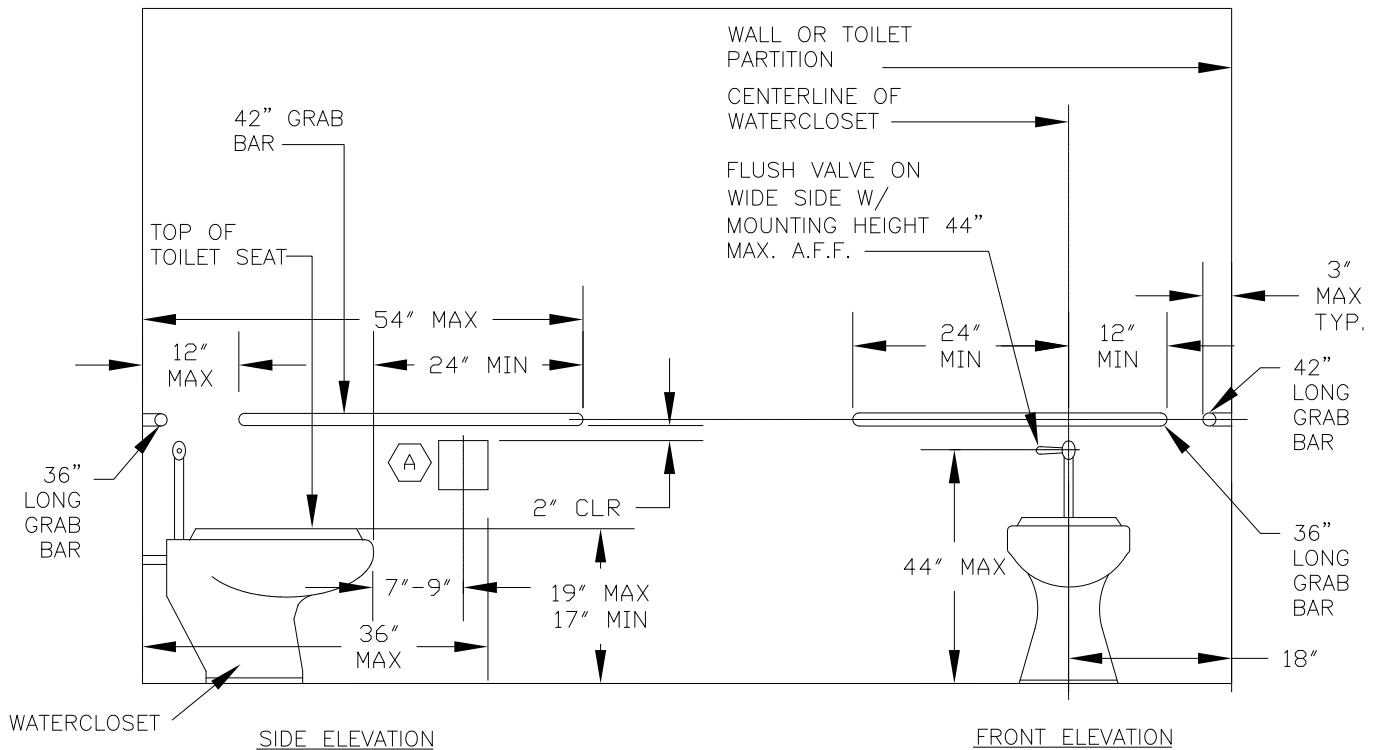
1. CENTER ON LINE OF SIGHT FOR: A)SINGLE RAIL, B)DOUBLE RAIL.
2. PAINT OUT TO MATCH RESPECTIVE WALL FINISH.
3. FASTEN TO WALL SURFACE USING ONE OF THE FOLLOWING METHODS:
 - A) WOOD STUDS: NAIL SET, 6d FINISH NAIL CENTERED ON STUDS.
 - B) METAL STUDS: TYPE-S "USG" SCREWS OR EQUAL CENTERED ON STUDS.

LOCKHEED MARTIN SPACE SYSTEMS		V2-717		REV.
				1
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	LARRY GEER	DATE
DWG TITLE: SINGLE AND DOUBLE WOOD CHART RAIL		CHECKED		4-88
ALL FACILITIES		APPROVED		
SCALE: 1/2"=1"	CAD. ID. V2-717.dwg	ER NO.		SHT. OF 1



SECTION VIEW
HALF SCALE

LOCKHEED MARTIN SPACE SYSTEMS		V2-718	REV.
			1
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN LARRY GEER	DATE
DWG TITLE: DRIP CAP FOR EXTERIOR DOORS		CHECKED	02-88
ALL FACILITIES		APPROVED	1
SCALE: HALF	CAD. ID. V2-718.dwg	ER NO.	SHT. OF 1

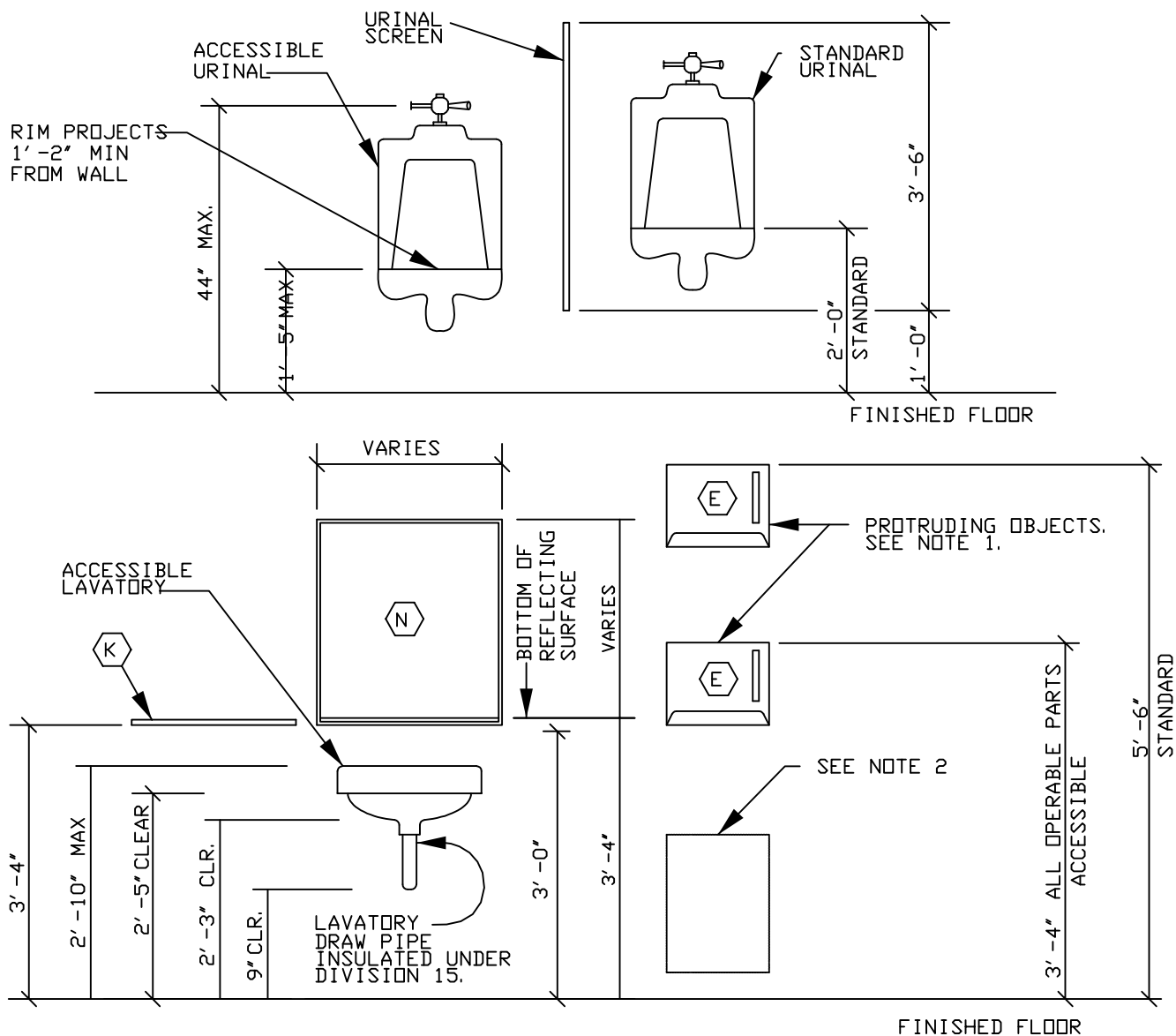


NOTES:

- (A) TOILET TISSUE DISPENSER
- (B) PAPER TOWEL DISPENSER
E-MOTION AUTOMATIC DISPENSER
- (C) WALL OR PARTITION MOUNTED SEAT
COVER DISPENSER

1. WALL MOUNTED ACCESSORIES WITH BOTTOM EDGE HIGHER THAN 27 INCHES MAY NOT PROTRUDE MORE THAN 4 INCHES INTO ACCESSIBLE AREAS.
2. WHERE PROTRUDING ACCESSORIES DO NOT COMPLY WITH NOTE 1, WING WALLS SHELVES OR FURNITURE SHALL BE INSTALLED BELOW PROTRUDING ACCESSORIES.

LOCKHEED MARTIN SPACE SYSTEMS		V2-719		REV.
				3
FACILITY OPERATIONS & SERVICES		DRAWN	D.KAEINI	DATE
DWG TITLE: RESTROOM FIXTURES TYPICAL MOUNTING DIMENSIONS		CHECKED	M.DOOLEY	8/5/2014
ALL FACILITIES		APPROVED	M.DOOLEY	8/11/2014
SCALE: NONE	CAD. ID. V2-719.dwg	ER NO.		SHT. OF 1



TOILET ROOM ACCESSORIES

- (E) ROLL PAPER TOWEL DISPENSER.
- (K) S. S. SHELF
- (N) MIRROR

NOTES:

1. WALL MOUNTED ACCESSORIES WITH BOTTOM EDGE HIGHER THAN 27 INCHES MAY NOT PROTRUDE MORE THAN 4 INCHES INTO ACCESSIBLE AREAS.
2. WHERE PROTRUDING ACCESSORIES DO NOT COMPLY WITH NOTE 1, WING WALLS SHELVES OR FURNITURE SHALL BE INSTALLED BELOW PROTRUDING ACCESSORIES.

LOCKHEED MARTIN SPACE SYSTEMS		V2-720		REV.	2
				DATE	
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	JOHN WILLIAMS	5-18-92	
DWG TITLE: RESTROOM FIXTURES TYPICAL MOUNTING HEIGHTS-2		CHECKED			
ALL FACILITIES		APPROVED			
SCALE:	NONE	CAD. ID.	V2-720.dwg	ER NO.	SHT. OF 1

SEE
STRUCTURAL
DRAWINGS
FOR SUPPORTS.

NON-SLIP
NUT WITH
FLAT
WASHER.

UNISTRUT
NUT P1008.

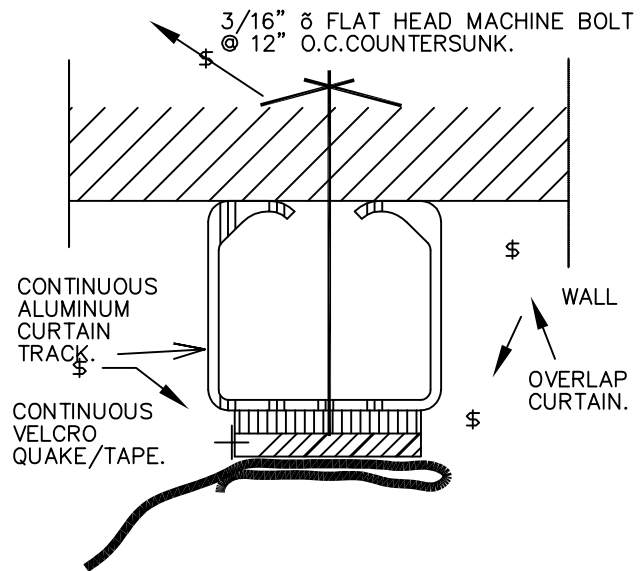
UNISTRUT
P1000.
PAINT.

3/16" \varnothing
FASTENER
@ 18" O.C.

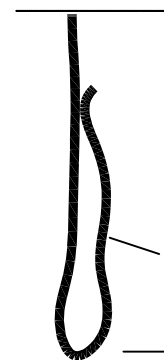
OVERALL CURTAIN HEIGHT
SEE PLAN

TO FINISH
FLOOR

HEAD



JAMB



ALUMINUM
CURTAIN
TRACK.

HOOK

OVERLAP
CURTAIN
AT
WASHER.

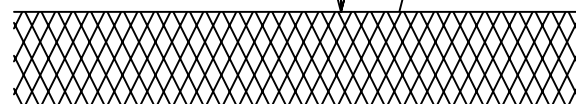
CURTAIN

FABRIC SPLICE

OVERLAP CURTAIN
FOR CHAIN WEIGHTS.
SIZED BY MANUF.

1"

FINISH
FLOOR



SILL

LOCKHEED MARTIN
SPACE SYSTEMS



V2-722

REV.

0

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN F. KREIS

10-90

DWG TITLE: SECURITY CURTAIN DETAILS

CHECKED

ALL FACILITIES

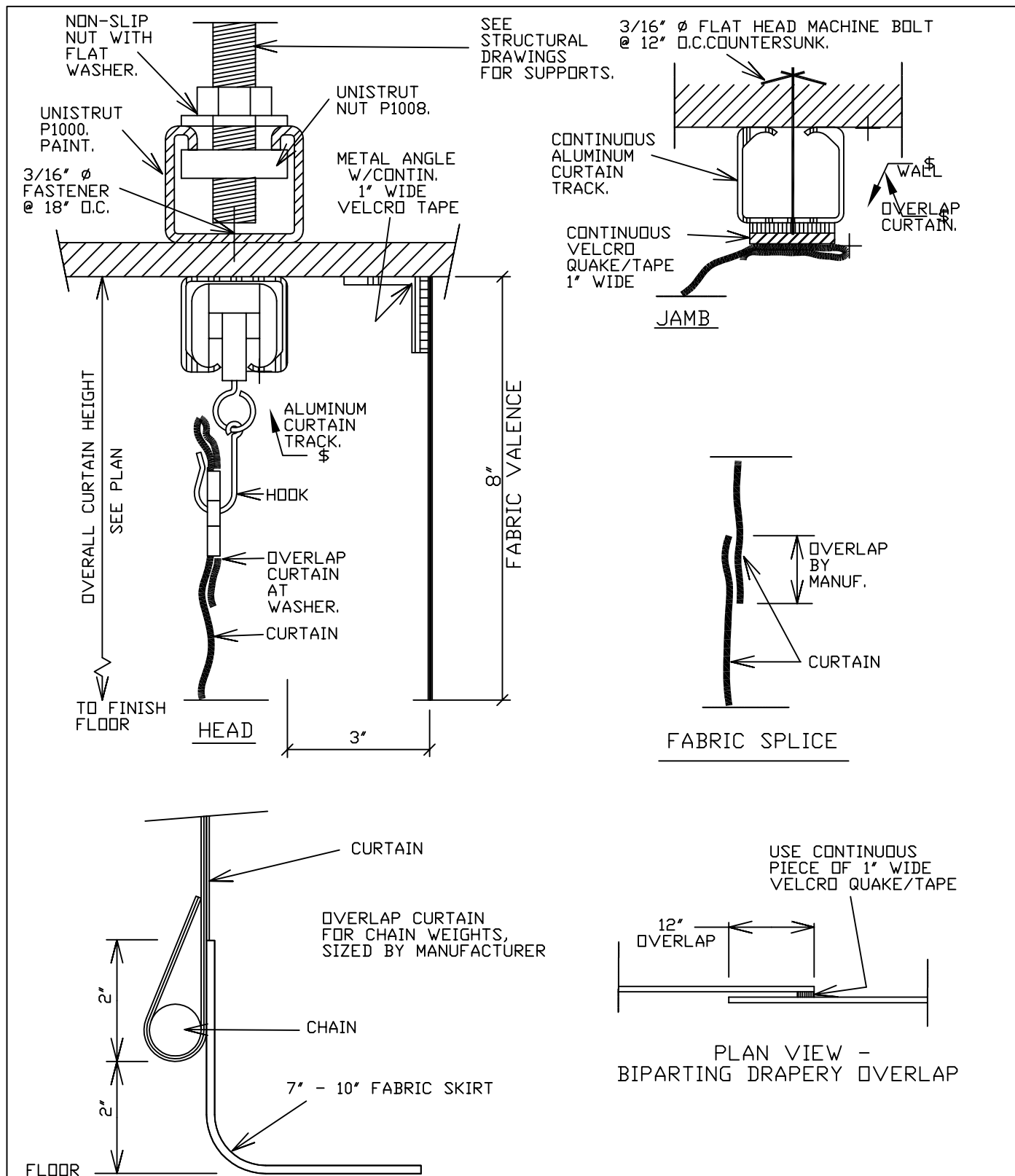
APPROVED

SCALE: FULL

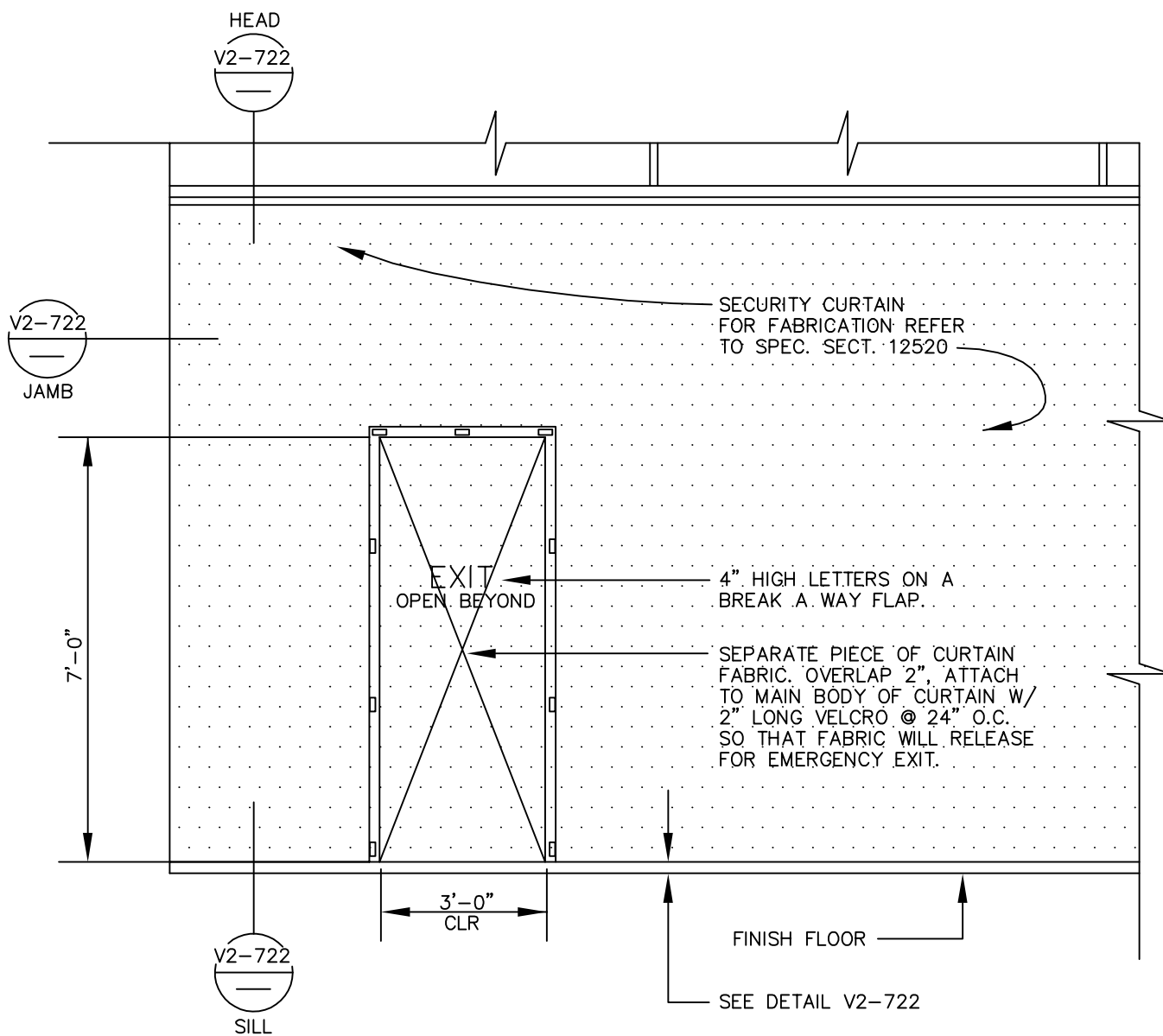
CAD. ID.

ER NO.

SHT.
OF 1



LOCKHEED MARTIN SPACE SYSTEMS		V2-722A		REV.	0
				DATE	
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	LARRY GEER	9-4-92	
DWG TITLE: BLACK OUT CURTAIN DETAILS		CHECKED			
ALL FACILITIES		APPROVED			
SCALE: FULL	CAD. ID. V2-722A.DWG	ER NO.		SHT. OF	1



LOCKHEED MARTIN
SPACE SYSTEMS



V2-722B

REV.

0

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN GMB

DWG TITLE: BREAK-OUT EXIT PANEL AT SECURITY CURTAIN

CHECKED

ALL FACILITIES

APPROVED

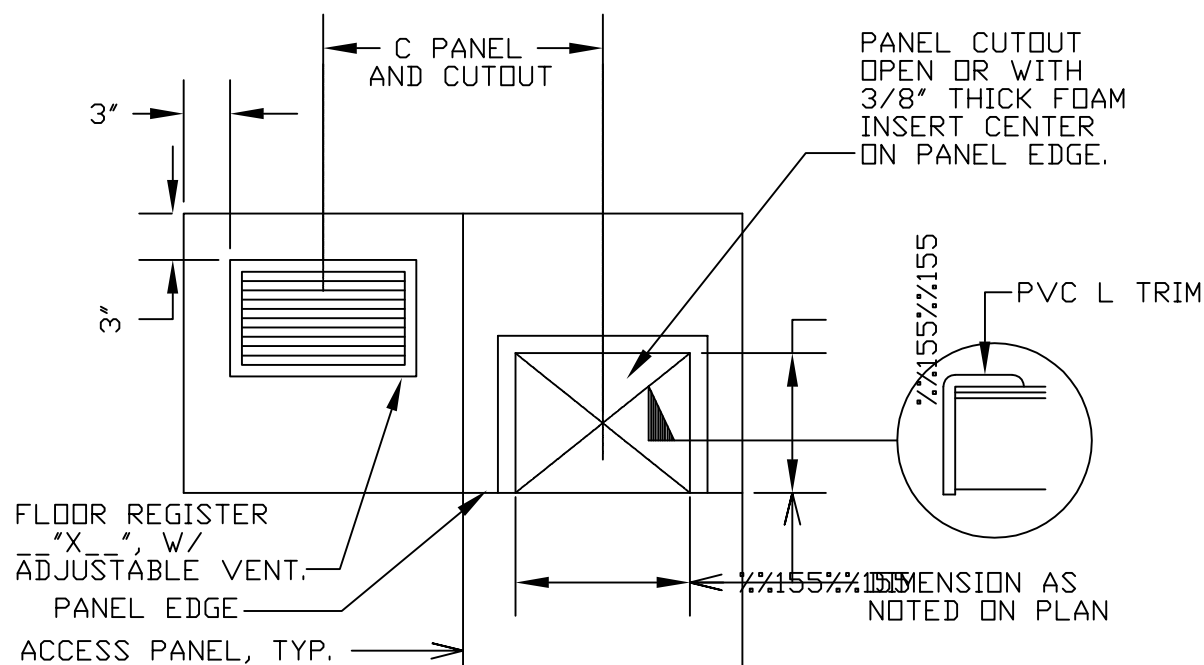
SCALE: NO SCALE

CAD. ID. V2-722B.dwg

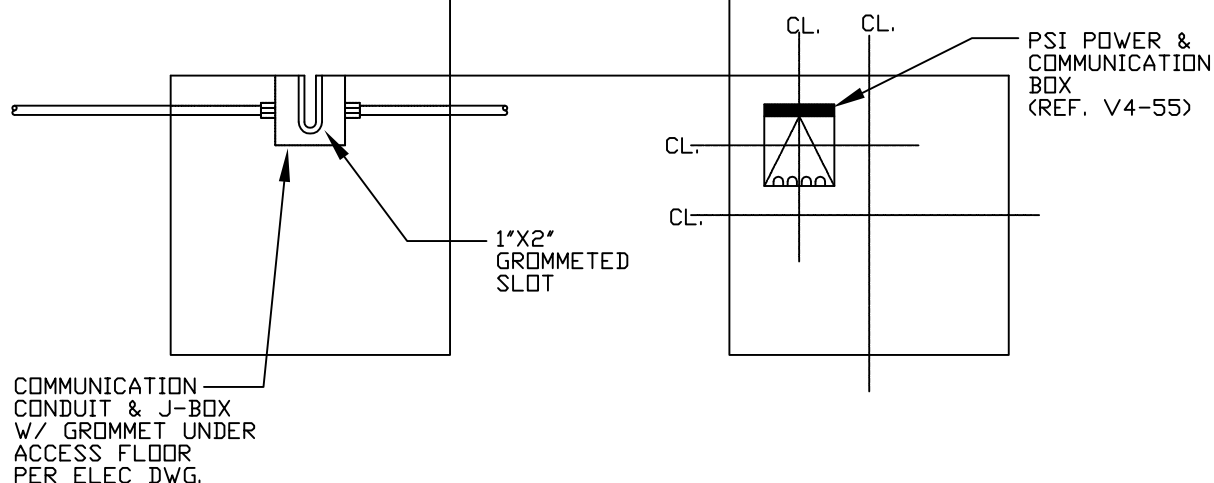
ER NO.

SHT. OF 1

STRINGER SYSTEMS



NON-STRINGER SYSTEMS



PLAN

NOTES:

1. SIZES LOCATIONS AND TYPES OF CUTOUT ARE NOTED ON THE FLOOR PLAN
2. IF CONCENTRATED LOADS EXCEEDING 300LB OR UNIFORM LOADS EXCEEDING 75RSF WILL BE PLACED ON CUT PANEL, PROVIDE ADDITIONAL SUPPORT PEDESTALS AT EDGE OF CUTOUT.

LOCKHEED MARTIN
SPACE SYSTEMS

V2-723

REV.

1

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN DAVID KAEINI

06-11-93

DWG TITLE: ACCESS FLOOR PANEL CUTOUTS, AND REGISTERS

CHECKED

ALL FACILITIES

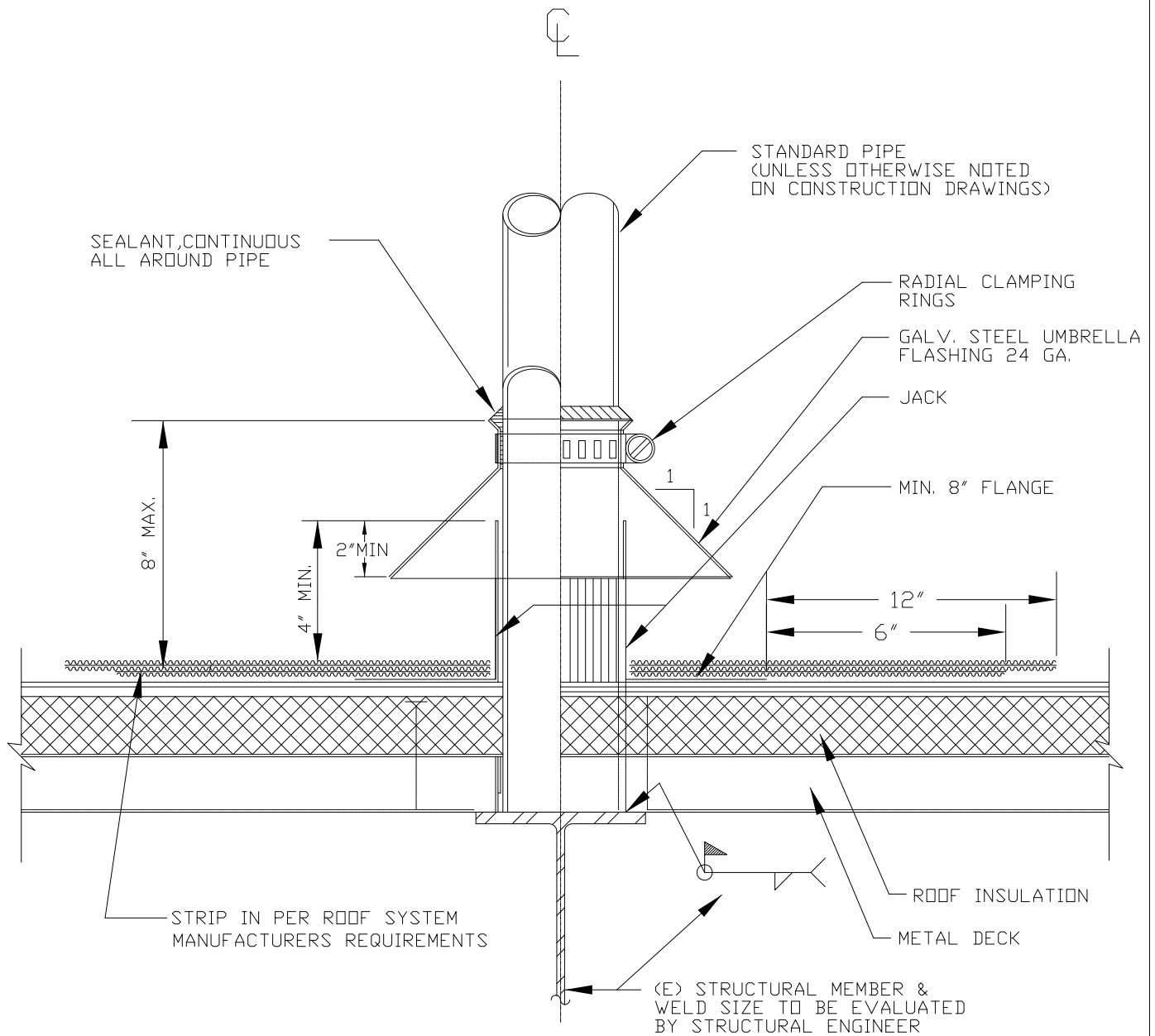
APPROVED

SCALE: 3/4"=1'-0"

CAD. ID. V2-723.dwg

ER NO.

SHT. OF 1



INSTALLATION SEQUENCE:

CUT & REMOVE EXISTING ROOFING, INSULATION, AND METAL DECK, EXPOSING ROOF STRUCTURE
 INSTALL STRUCTURAL SUPPORT MEMBER PER DETAIL ABOVE. REINSTALL METAL DECK,
 INSULATION AND ROOFING AS REQUIRED TO MAKE ROOFING AND DECK WEATHER TIGHT
 AND BASE-FLASHING AS PER THIS DETAIL AND ROOFING SPECIFICATION.

LOCKHEED MARTIN
SPACE SYSTEMS



V2-800

REV.

5

DATE

FACILITY OPERATIONS & SERVICES

DRAWN B.PALMON

1/6/2014

DWG TITLE: EXTENDED SUPPORT THRU-ROOF FLASHING DETAIL

CHECKED M.DOOLEY

1/6/2014

APPROVED M.DOOLEY

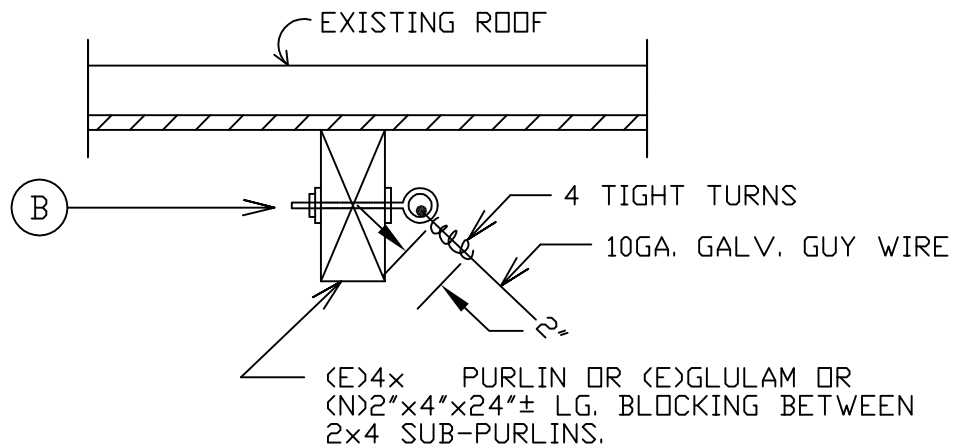
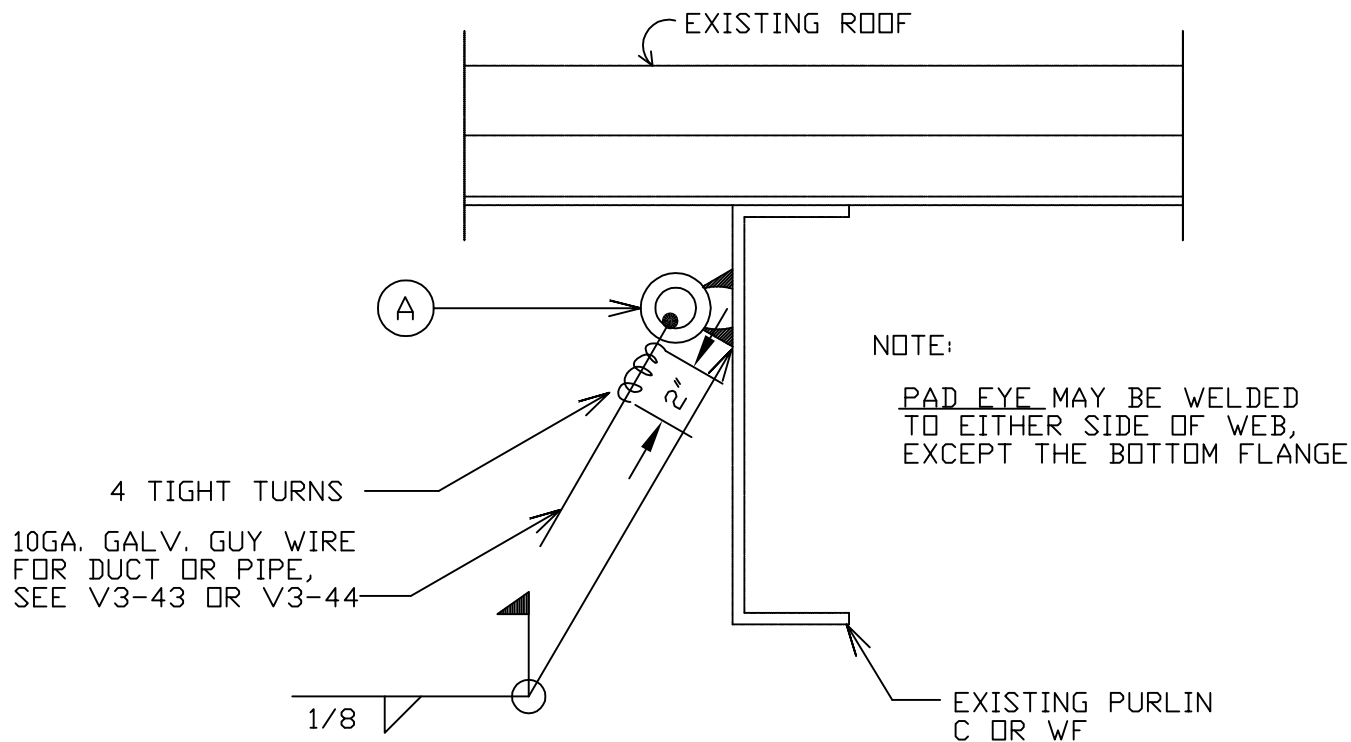
1/6/2014

SCALE: NONE

CAD. ID. V2-800.dwg

ER NO. NA

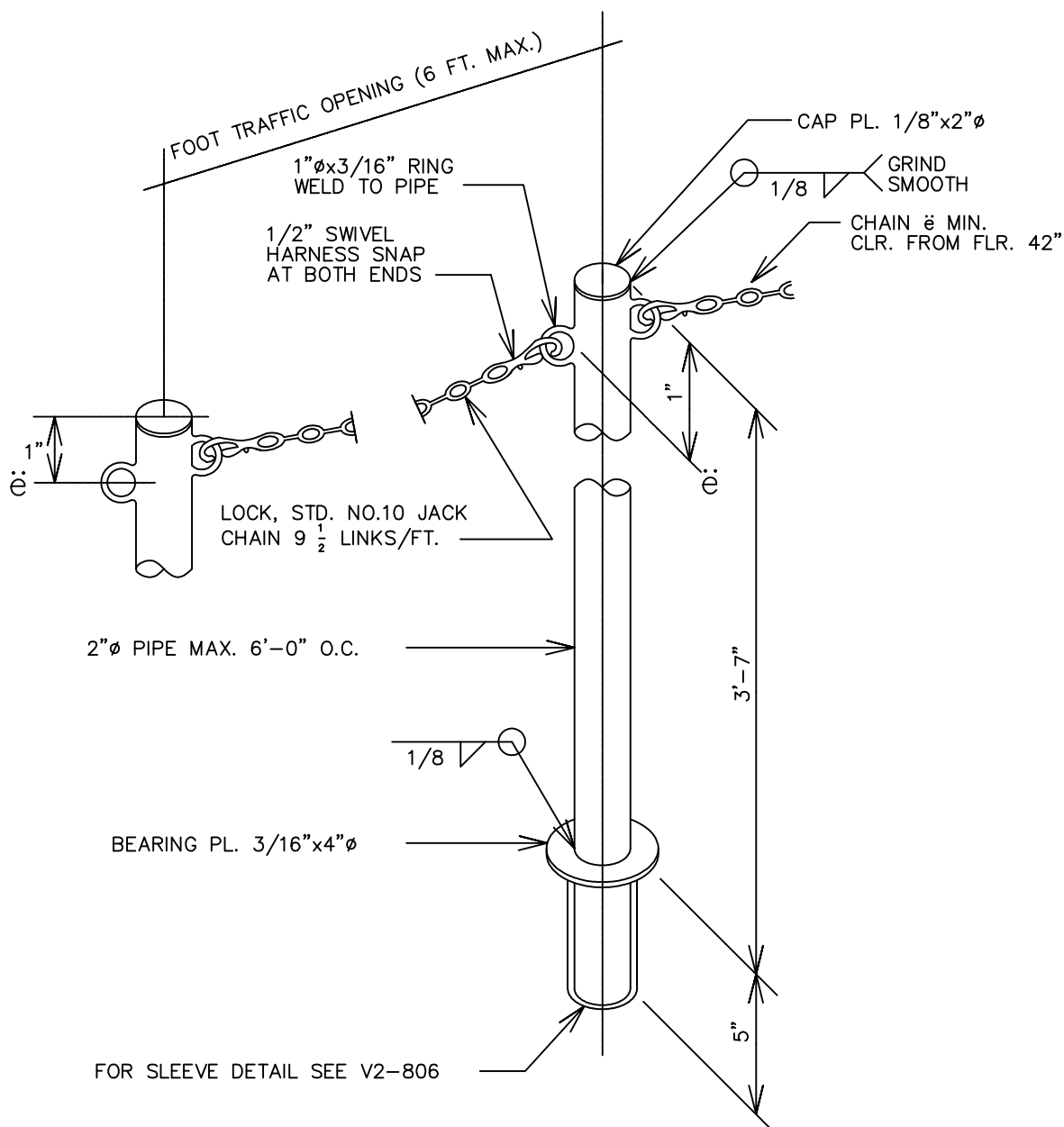
SHT. OF 1



NOTES:

- (A) 1/4" NUT RINGBOLTS × 2" LONG W/2 NUTS
- (B) 1/4" NUT RINGBOLTS × 4" LONG W/2 NUTS
- BOTH (A) & (B) DROP FORGED, PLAIN, THREADED

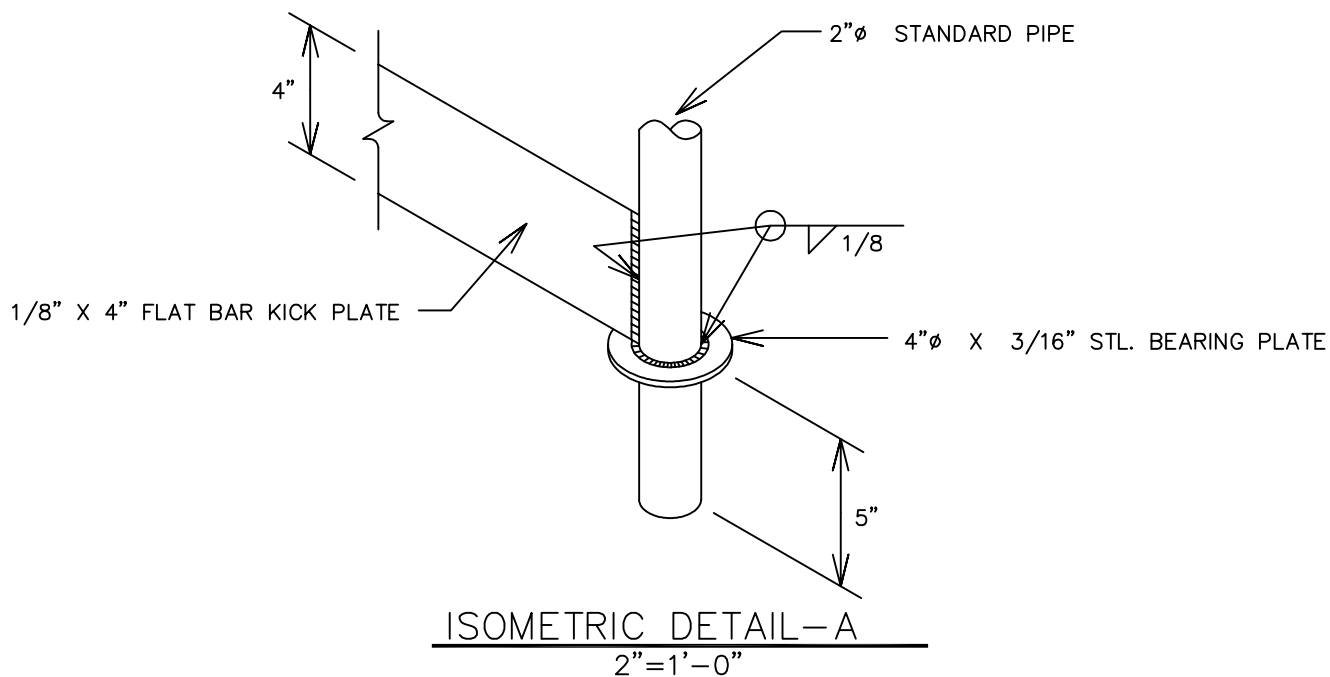
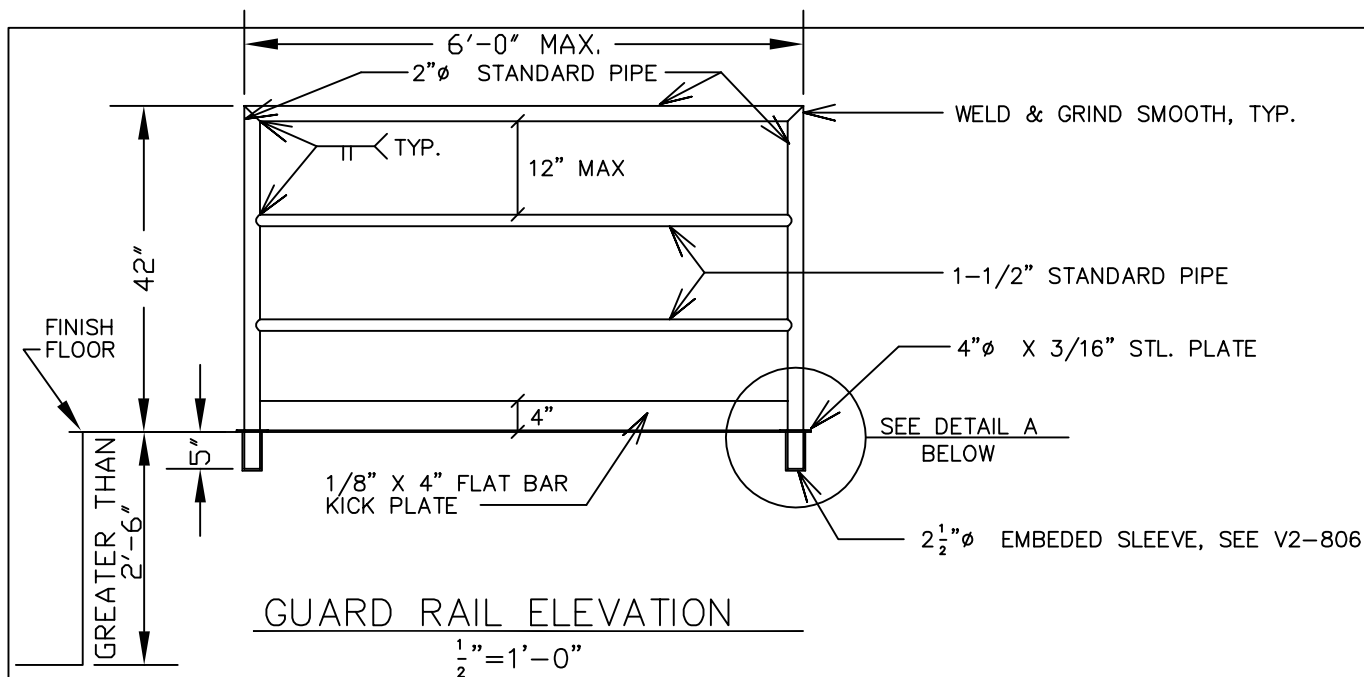
LOCKHEED MARTIN SPACE SYSTEMS		V2-802	REV. 2
			DATE
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN ANDY LEUNG	03-89
DWG TITLE: GUY WIRE SUPPORT - INSIDE BUILDING		CHECKED	
		APPROVED	
SCALE: NONE	CAD. ID. V2-802.dwg	ER NO.	SHT. OF 1



ISOMETRIC VIEW - 2"=1'-0"

- NOTES:**
1. EXTERIOR USE-STD. GALV. PIPE. PAINT W/(1) COAT PRIMER & (2) COATS RUST INHIBITIVE ENAMEL. KELLY MOORE, KEL-GUARD, PRODUCT 1700, 63 SUNBURST YELLOW (SAFETY YELLOW).
 2. INTERIOR USE-STD. BLACK IRON PIPE. PAINT W/(1) COAT PRIMER & (2) COATS RUST INHIBITIVE ENAMEL. KELLY MOORE, KEL-GUARD, PRODUCT 1700, 63 SUNBURST YELLOW (SAFETY YELLOW).
 3. THIS SHEET SHALL WORK W/V2-806.

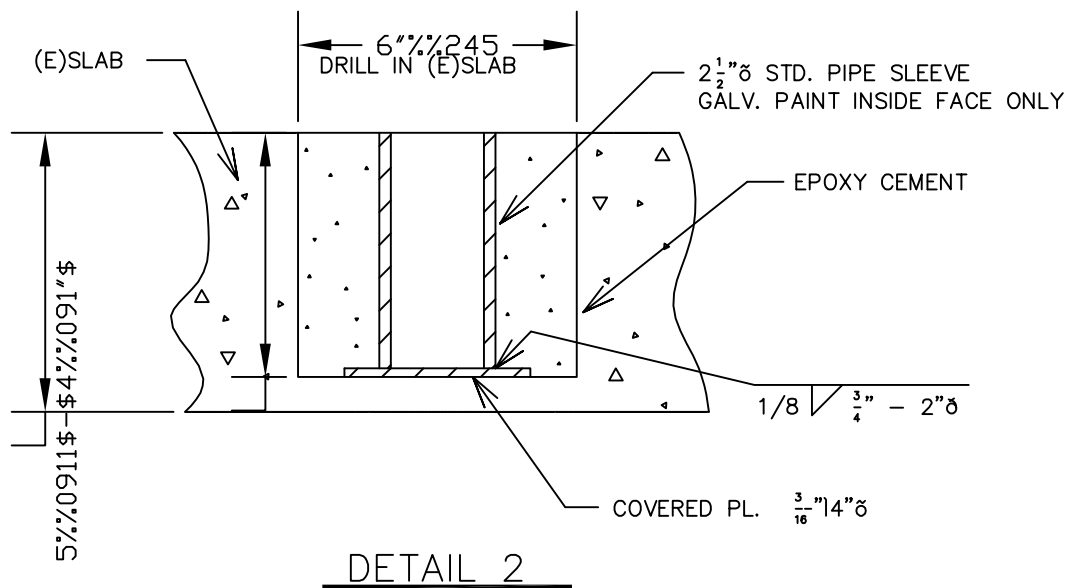
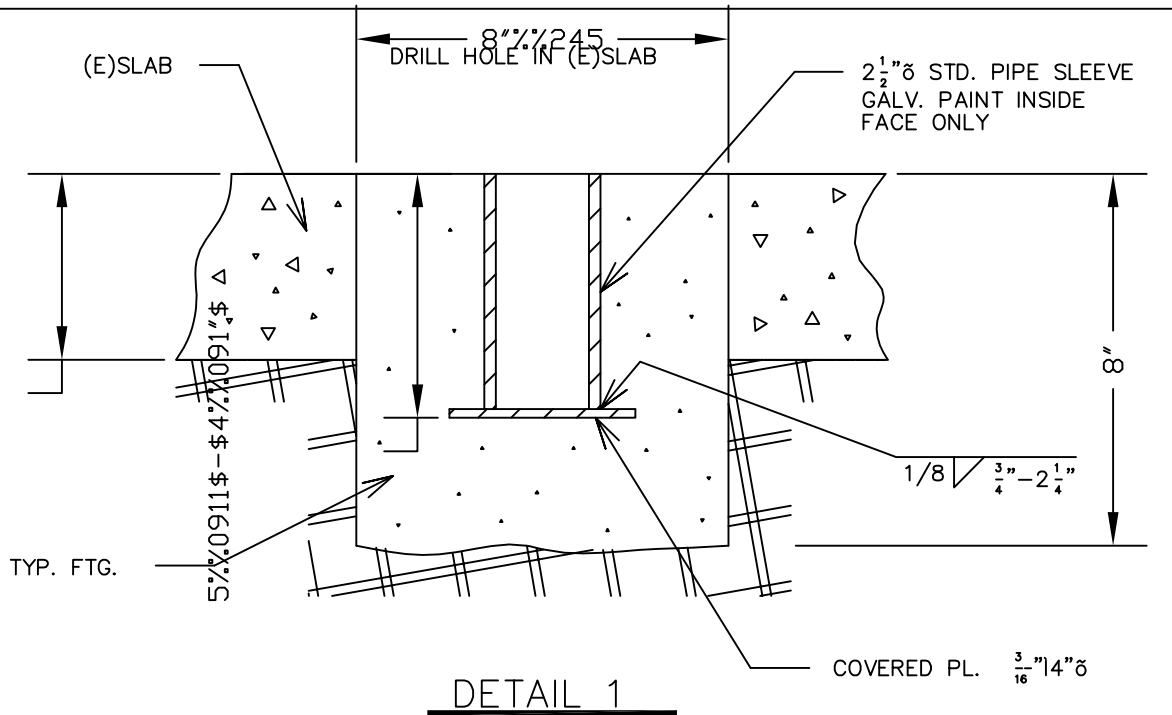
LOCKHEED MARTIN SPACE SYSTEMS		V2-803	REV.
			1
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN SILVIA LEE	DATE
DWG TITLE: REMOVABLE GUARD-CHAIN & POST IN CONCRETE SLAB		CHECKED	03-89
ALL FACILITIES		APPROVED	
SCALE: 2" = 1'-0"	CAD. ID. V2-803.dwg	ER NO.	SHT. OF 1




- NOTES: 1. INTERIOR USE-STD. BLACK IRON PIPE. PAINT W/(1) COAT PRIMER & (2) COATS ENAMEL, FED. STD. #595 YELLOW 13655.
2. EXTERIOR USE-STD. GALV. PIPE. PAINT W/(1) COAT PRIMER & (2) COATS ENAMEL, FED. STD. #595 YELLOW 13655. PICKLE PIPE W/ACETIC ACID BEFORE PAINTING.
3. THIS SHEET SHALL WORK W/V2-806.

LOCKHEED MARTIN SPACE SYSTEMS		V2-804		REV.
				3
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	S.LEE	DATE
DWG TITLE: REMOVABLE GUARD RAIL		CHECKED		7/89
ALL FACILITIES		APPROVED		
SCALE: AS-SHOWN	CAD. ID. V2-804.DWG	ER NO.		SHT. OF 1

CONC. SLAB\$GREATER THAN 6"



NOTE: THIS SHEET SHALL BE USED WITH V2-803, 804, & 805.

		V2-806		REV. 1
				DATE
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	B.PALMON	6/95
DWG TITLE: EMBEDDED SLEEVE FOR REMOVABLE POST		CHECKED		
		APPROVED		
SCALE: 3"=1'0"	CAD. ID. V2-806.DWG	ER NO.	SHT. OF 1	

TYPICAL 4X PURLINS AT
8'-0" O. C. (VERIFY AT
SITE)

GLU-LAM BEAM

CAULK OR SEALANT

2 - NO. 10
SELF-TAPPING SCREWS

ONE LAYER OF 5/8"
TYPE "X" GYP. BD. OVER
3-5/8" X 25GA. MTL.
MTL. STUDS AT 24" O. C.

TYPICAL SUSPENDED
T-BAR CEILING

SECTION VIEW

(2) 3/8" Ø X 3"
LAG SCREWS
@ EACH VERTICAL
STUD & DIAGONAL
BRACE.

3-5/8" X 20GA. CEE STUDS
@ 8'-0" O. C. MAX. LOCATED
IMMEDIATELY TO STUDS

45° ±5°

400 SS 25 OR EQ.

NO. 6, S-12 SELF-TAPPING
SCREW @ EVERY STUD

3-5/8" X 25GA. MTL. RUNNER

FIRE SAFING INSULATION CLOSURE
WITH PIERCING CLIP

CLG. LINE

9 FT MAX.

NOTES: 1. THIS DETAIL IS FOR WOOD UPPER STRUCTURE ONLY. FOR
CONNECTION TO OTHER UPPER STRUCTURES SEE V2-054,
V2-055 & V2-056.

LOCKHEED MARTIN
SPACE SYSTEMS



V2-807

REV.

2

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN BERT PALMON

06-25

DWG TITLE: TYPICAL DRAFT STOP WITHIN ATTIC SPACE ABOVE T-BAR CEILING.

CHECKED

ALL FACILITIES

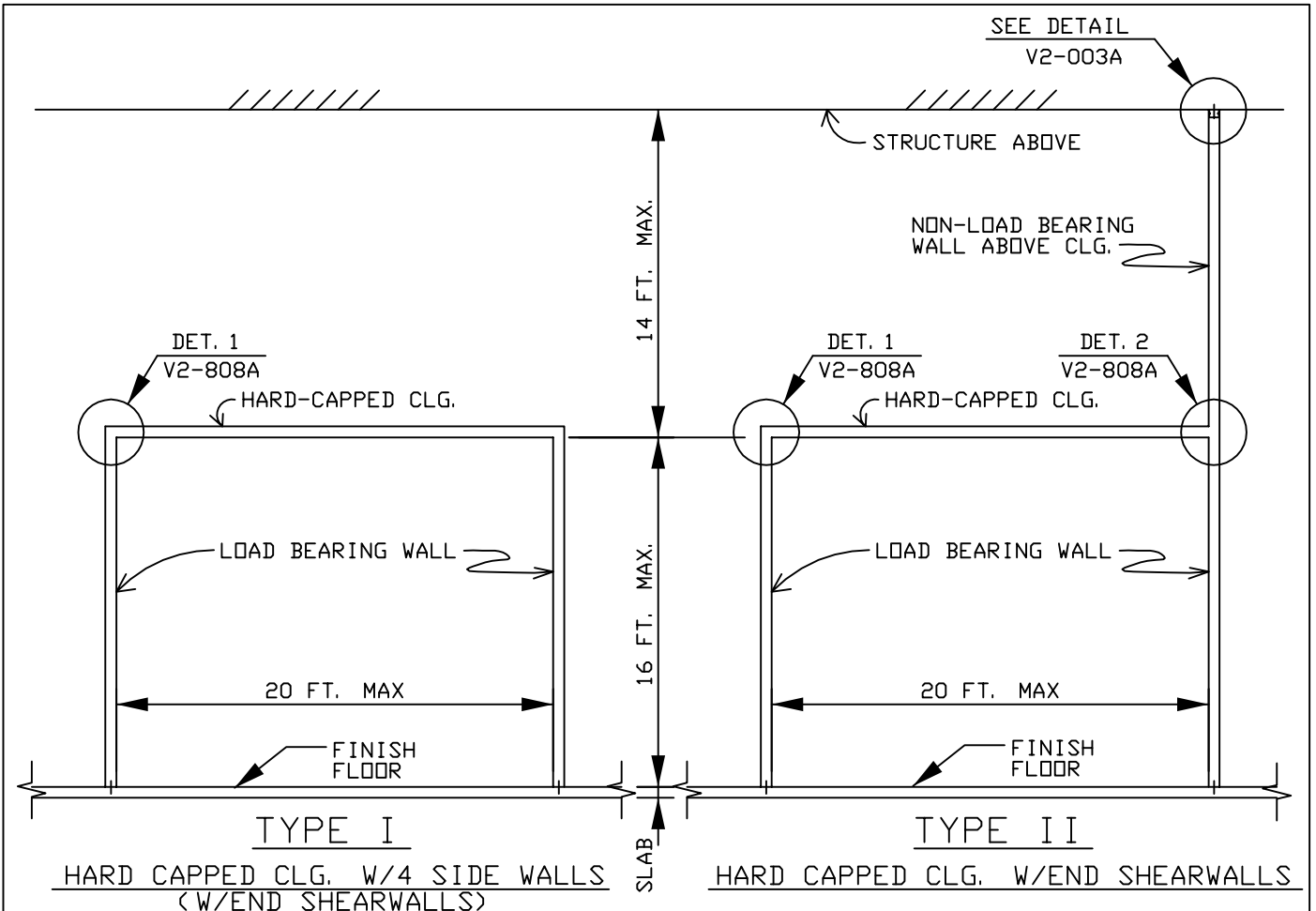
APPROVED

SCALE: 1 1/2" = 1'-0"

CAD. ID. V2-807.dwg

ER NO.

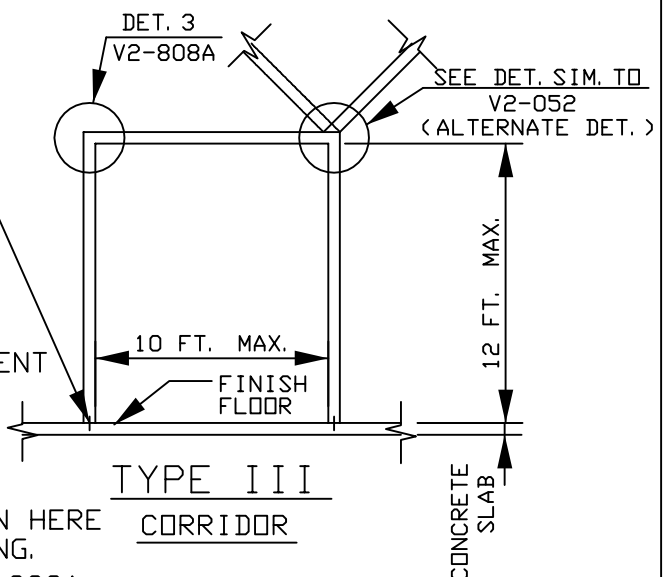
SHT. OF 1



1/4" Ø EXP. ANCHOR AT 48" D. C.
W/2" EMBEDMENT, TYP. FOR
TYPE I, II & III. SEE
V2-002A FOR MORE DETAILS

NOTES:

1. FOR EXISTING WALLS, STRUCTURAL ENGR. SHALL BE CONSULTED.
2. IF ANY MECHANICAL/ELECTRICAL EQUIPMENT LOAD SHOULD BE ON THE CEILING, STRUCTURAL ENGR. SHALL BE CONSULTED.
3. THE SPACE ABOVE THE CEILING SHALL NOT BE USED FOR ANY STORAGE PURPOSE
4. ALL TYPES OF HARD-CAPPED ROOMS SHOWN HERE ARE TO BE LOCATED INSIDE THE BUILDING.
5. THIS SHEET SHALL WORK W/V2-003A, V2-002A, V2-808A, AND V2-052 AS REQUIRED.



LOCKHEED MARTIN
SPACE SYSTEMS



V2-808

REV. 2

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN BPALMON

8-20-96

DWG TITLE: HARD-CAPPED CEILING ROOM DETAILS

CHECKED

APPROVED

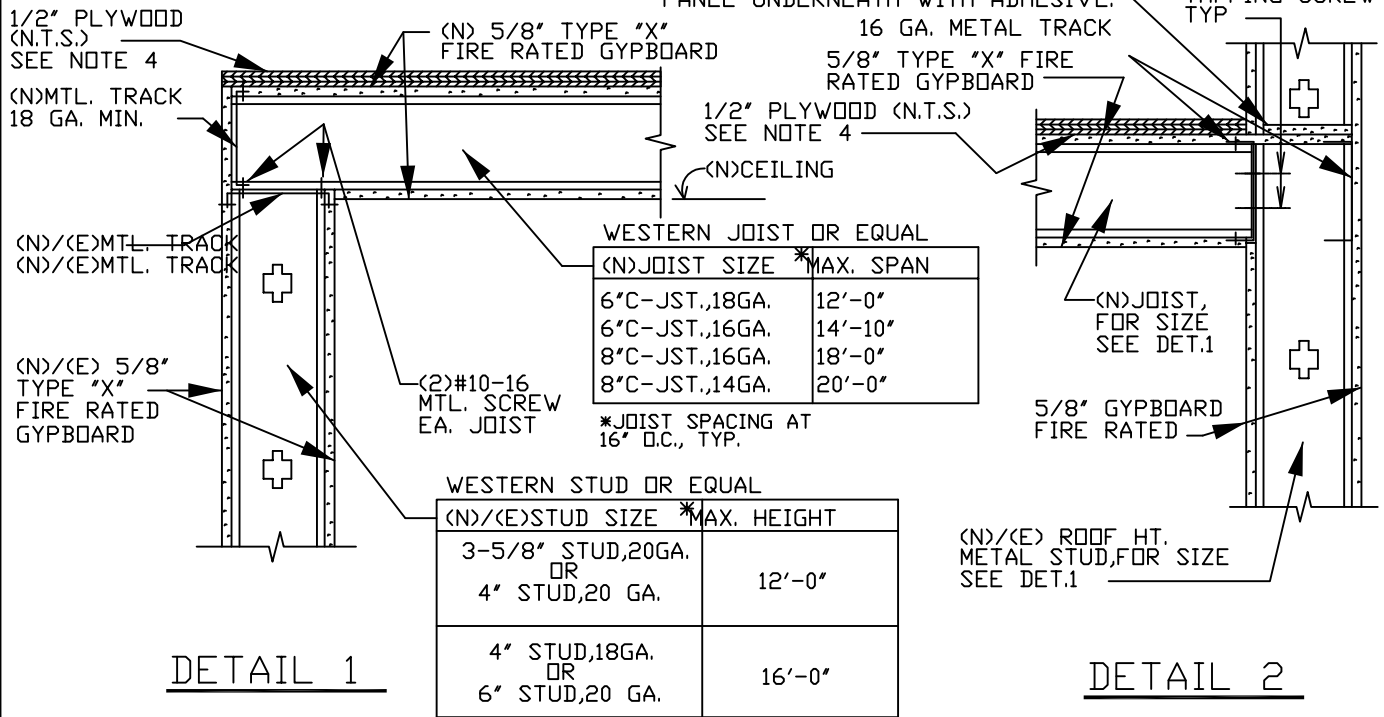
SCALE: 1/8"=1'-0"

CAD. ID. V2-808.DWG

ER NO.

SHT. OF 1

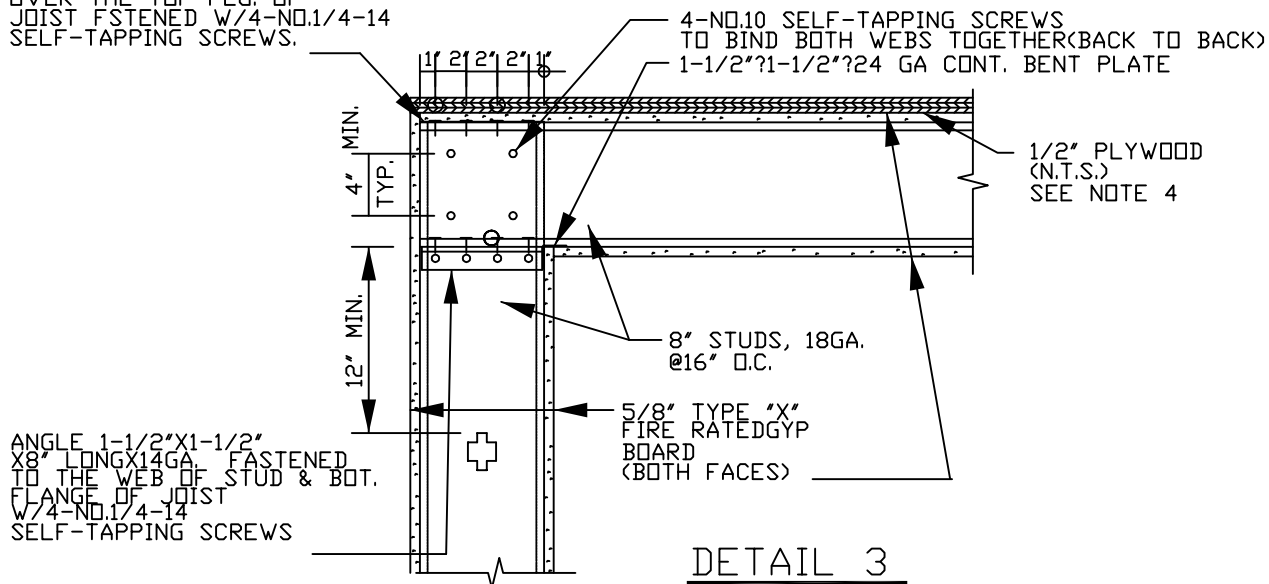
HARDCAP CEILING



DETAIL 1

DETAIL 2

BEND THE STUD WEB(1-1/2") OVER THE TOP FLG. OF JOIST FASTENED W/4-NO.1/4-14 SELF-TAPPING SCREWS.



DETAIL 3

(MOMENT CONNECTION)

- NOTES:1. THIS SHEET SHALL WORK W/V2-808.
2. PROVIDE BRIDGING PER MFR'S RECOMMENDATION. MAX. SPACING OF BRIDGING SHALL BE 5 FT. FOR JOISTS, AND 6 FT. FOR WALL STUDS.
3. NO PUNCH-OUT WITHIN 12 IN. FROM JOIST-STUD CONNECTION.
4. PROVIDE 1/2" FIRE RESISTANT PLYWOOD IN LOCATIONS USED AS A RETURN AIR PLENUM.

LOCKHEED MARTIN
SPACE SYSTEMS



V2-808A

REV. 5

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN SILVIA SANTOS

6/91

DWG TITLE: HARD-CAPPED CEILING ROOM DETAILS 2

CHECKED

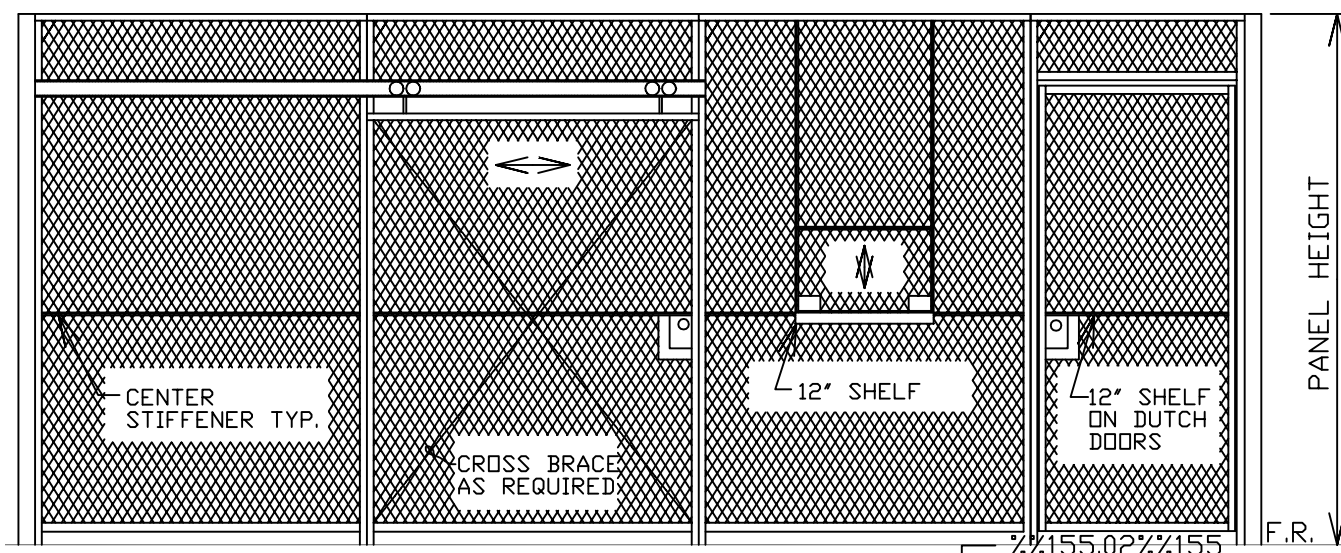
APPROVED

SCALE: 1"=1'-0"

CAD. ID. V2-808A

ER NO.

SHT. OF 1

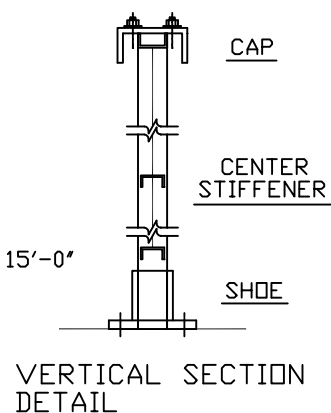
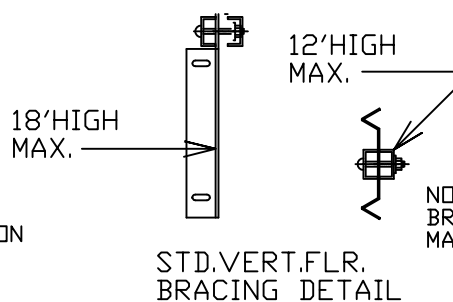
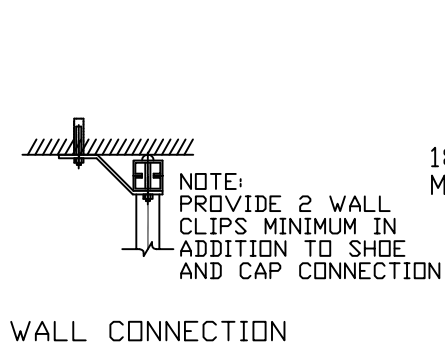
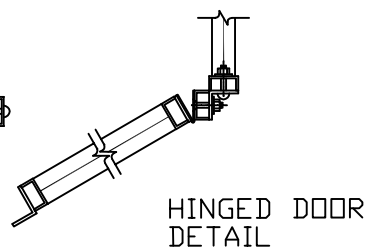
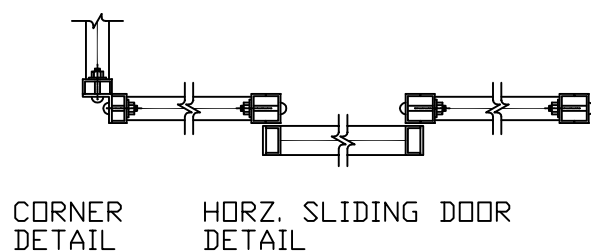


STANDARD PANELS
1',2',3',4'&5'WIDE
8',9',10'&12'HIGH

SLIDING DR. PNL.
4',5',6',8'&10'
WIDE,7'-9"HEADRM.

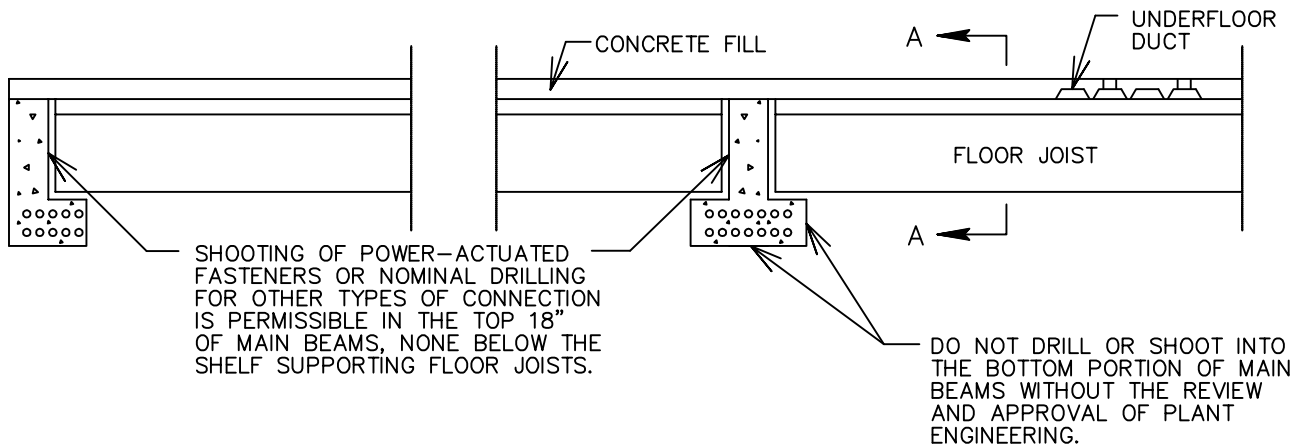
SERVICE WINDOW PNL.
24"X15"STD.SLIDE-UP
WINDOW,IN STD.5'PNL.

HINGED DR.PNL.
3',3'-6"&4'WIDE
DR.,7'-0"HEADRM.



LOCKHEED MARTIN SPACE SYSTEMS		V2-812	REV. 1
			DATE 12-87
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN LARRY GEER	
DWG TITLE: INDUSTRIAL WIRE MESH PARTITION		CHECKED	
ALL FACILITIES		APPROVED	
SCALE: N.T.S.	CAD. ID. V2-812.dwg	ER NO.	SHT. OF 1

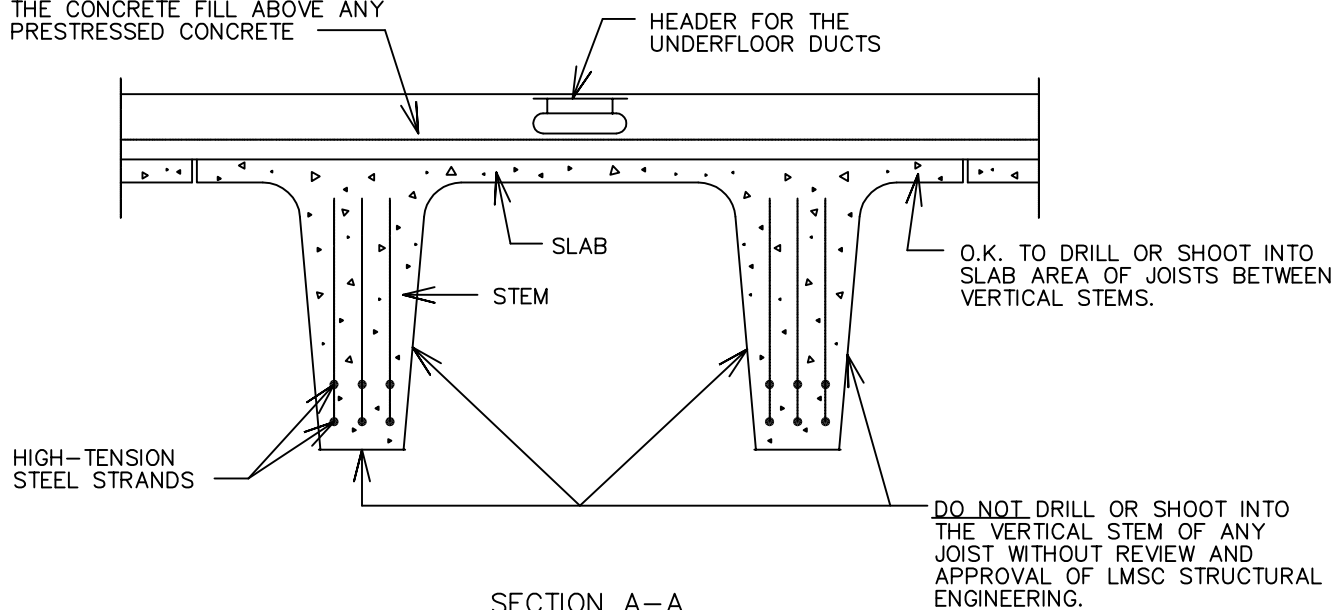
THE INSTALLATION OF POWER-ACTUATED FASTENERS OR DRILLING TO INSTALL OTHER TYPES OF CONCRETE FASTENERS IN PRESTRESSED CONCRETE BEAMS AND JOISTS IS RESTRICTED. INDISCRIMINATE DRILLING AND/OR SHOOTING OF POWER-ACTUATED DEVICES INTO PRESTRESSED STRUCTURAL ELEMENTS IS PROHIBITED BY LMSC STRUCTURAL ENGINEERING. THERE ARE SOME PARTS OF PRESTRESSED CONCRETE MEMBERS WHERE DRILLING OR SHOOTING IN OF POWER-ACTUATED FASTENERS CAN BE PERMITTED, AS INDICATED IN THE SKETCHES BELOW. ALL OTHER CUTTING, BORING, DRILLING AND/OR SHOOTING OF POWER-ACTUATED DEVICES INTO PRESTRESSED CONCRETE STRUCTURES MUST BE REVIEWED AND APPROVED BY LMSC STRUCTURAL ENGINEERING.



TYPICAL CROSS SECTION, SECOND FLOOR OF BUILDING 154

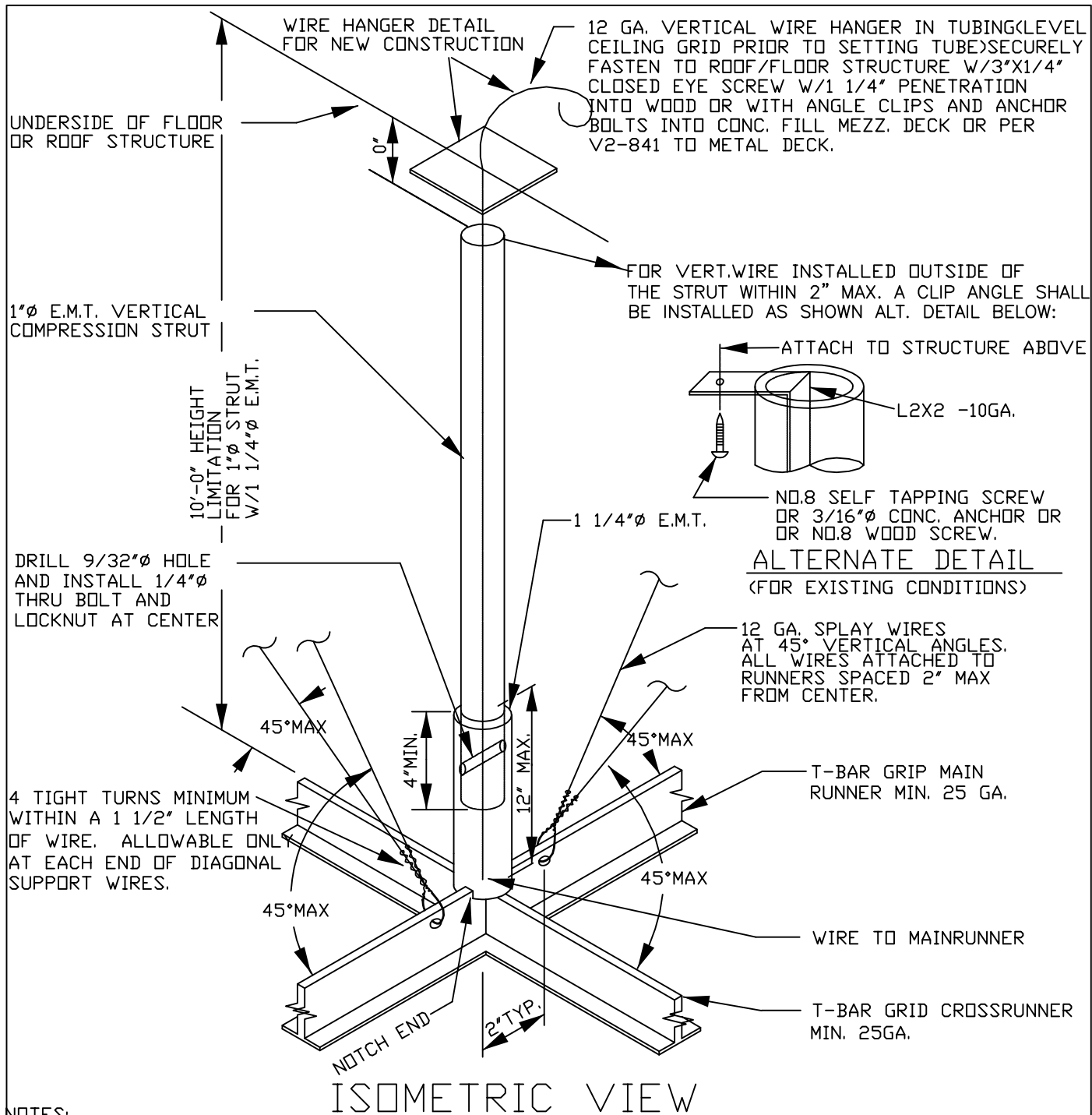
(ROOF OF BUILDING 109 IS SIMILAR)
(ROOF OF BUILDING 190 IS SIMILAR)

O.K. TO DRILL OR SHOOT INTO THE CONCRETE FILL ABOVE ANY PRESTRESSED CONCRETE



SECTION A-A
(TYPICAL JOIST CROSS-SECTION)

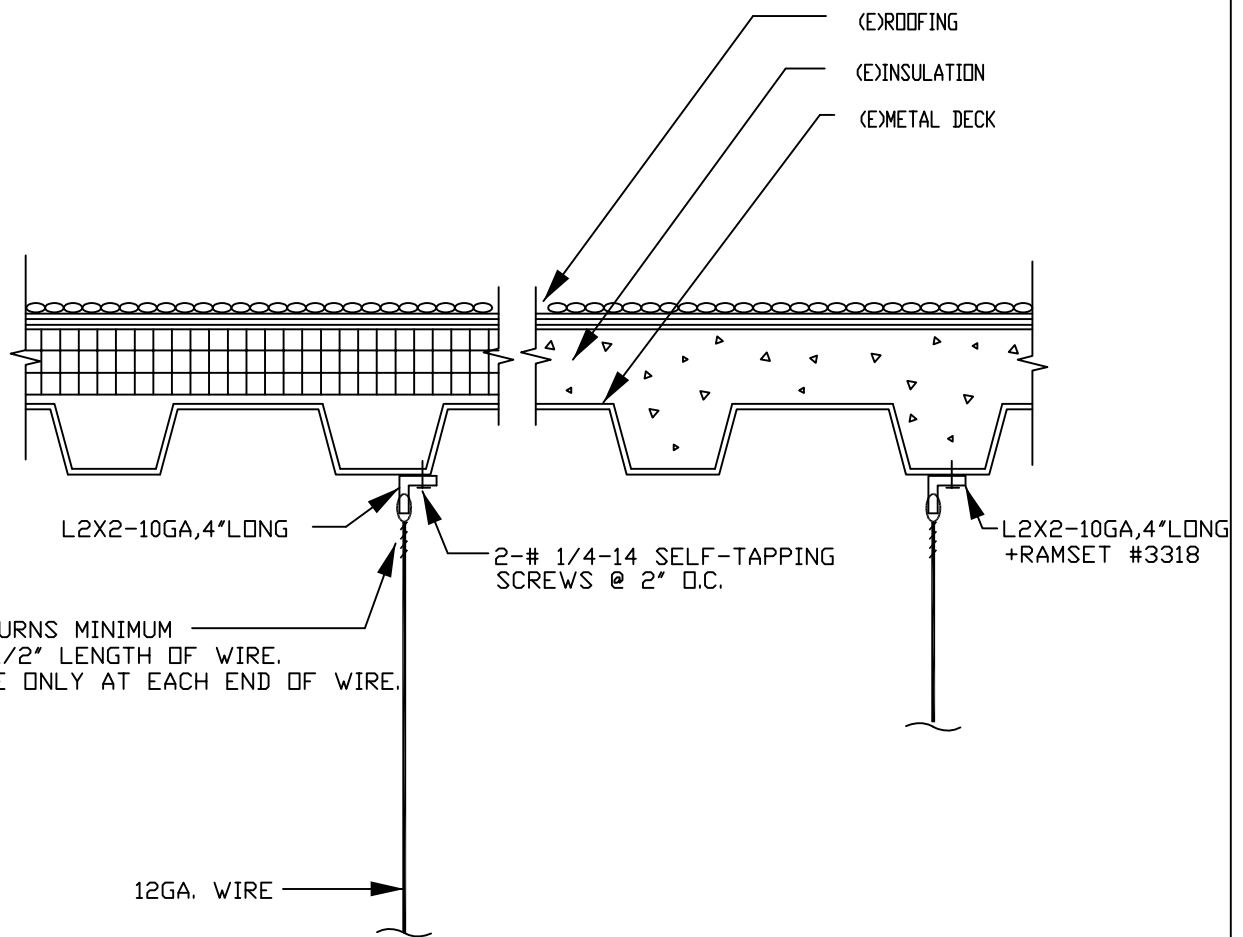
LOCKHEED MARTIN SPACE SYSTEMS		V2-813	REV.
			1
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN BERT PALMON	DATE
DWG TITLE: DRILLING OR FASTENING TO PRESTRESSED CONCRETE		CHECKED	06-25
ALL FACILITIES		APPROVED	
SCALE: N.T.S.	CAD. ID. V2-813.dwg	ER NO.	SHT. OF 1



NOTES:

1. EXTEND TUBE TO BE TIGHT TO CEILING GRID AND STRUCTURE ABOVE. THEN INSTALL BOLT TO SECURE ONE TUBE TO THE OTHER. TUBES SHALL LAP EACH OTHER AT LEAST 4" IN FULLY EXTENDED POSITION. THESE SUSPENDED CEILING LATERAL SUPPORTS SHALL BE PLACED 12' O.C. MAX. IN BOTH DIRECTIONS AND 6' MAX. FROM ALL WALLS. VERTICAL WIRE HANGERS SHALL BE 12GA. AND 4' O.C. IN EACH DIRECTION AND 8" MAX. FROM WALLS.
2. THIS DETAIL IS INCOMPLETE WITHOUT DETAILS: V2-841, V2-842 & V2-843, WHERE APPLICABLE.

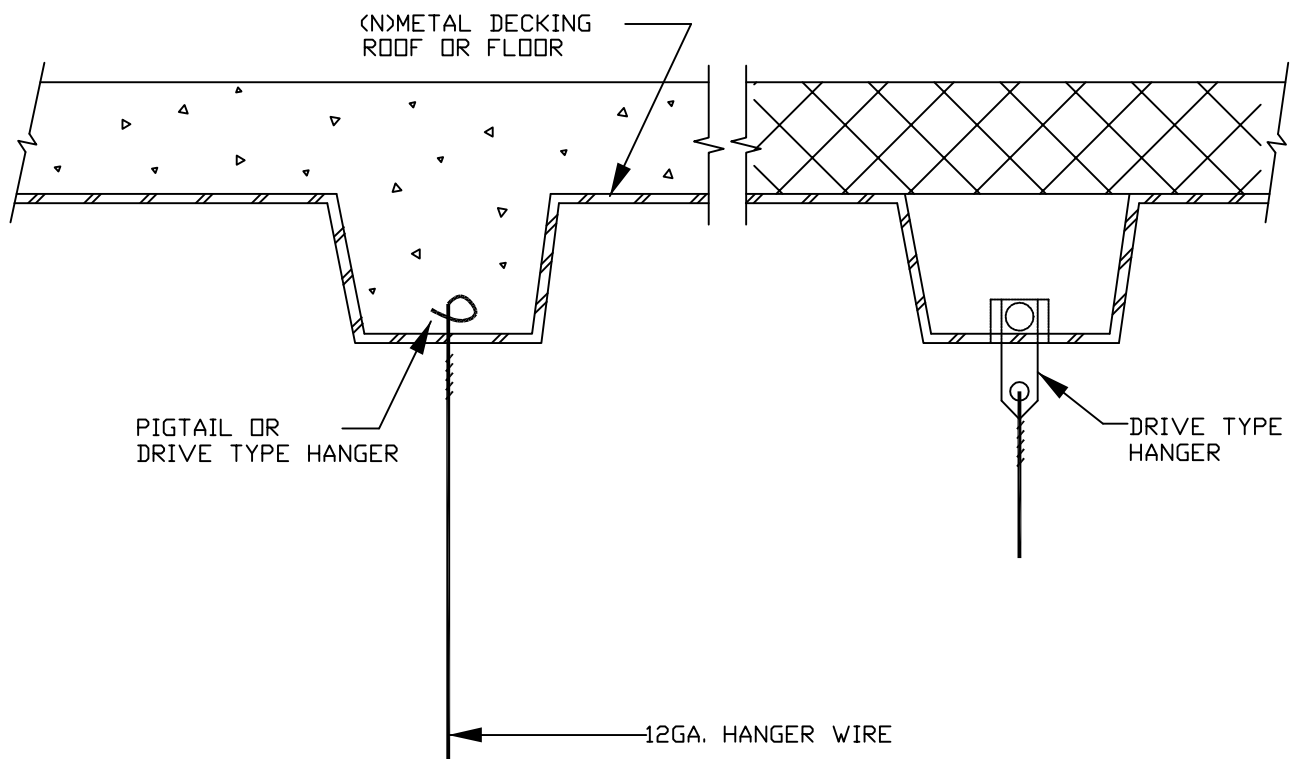
LOCKHEED MARTIN SPACE SYSTEMS		V2-840		REV.
				5
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	G.BRUFMAN	DATE
DWG TITLE: LATERAL SUPPORT FOR DIRECT HUNG SUSPENDED T-BAR CLG		CHECKED		1-21-93
		APPROVED		
SCALE:	NONE	CAD. ID.	V2-840.DWG	SHT. OF 1



NOTES:

1. VERT. WIRE HANGERS FOR SUSPENDED ACOUSTICAL TILE CEILING SHALL BE SPACED 4 FT. O.C. IN EACH DIRECTION AND 8" MAX. FROM WALLS.
2. THIS DETAIL IS INCOMPLETE WITHOUT DETAILS: V2-840, V2-842, V2-843; WHERE APPLICABLE.

LOCKHEED MARTIN SPACE SYSTEMS		V2-841	REV.
			4
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN G. BRUFMAN	DATE
DWG TITLE: WIRE HANGER AT EXISTING ROOF METAL DECK		CHECKED	1-21-93
ALL FACILITIES		APPROVED	
SCALE: NONE	CAD. ID. V2-841	ER NO.	SHT. OF 1



SECTION VIEW

NTS

NOTES:

1. VERTICAL WIRE HANGERS FOR SUSPENDED ACOUSTICAL TILE CEILING SHALL BE SPACED 4 FT. O.C. IN EACH DIRECTION AND 8" MAX. FROM WALLS.
2. THIS DETAIL IS INCOMPLETE WITHOUT DETAILS: V2-840, V2-841, V2-843; WHERE APPLICABLE.

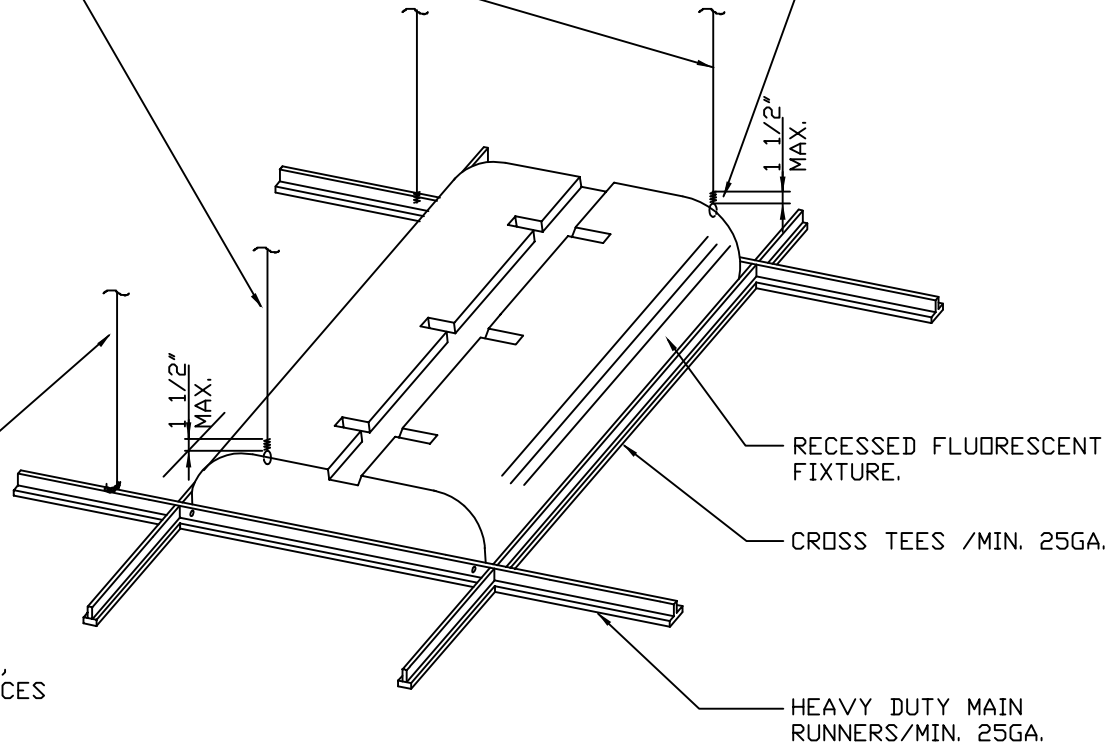
LOCKHEED MARTIN SPACE SYSTEMS		V2-842	REV.
			5
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN G. BRUFMAN	DATE
DWG TITLE: WIRE HANGER AT NEW ROOF/FLOOR DECK		CHECKED	1-25-93
ALL FACILITIES		APPROVED	
SCALE: NONE	CAD. ID. V2-842.dwg	ER NO.	SHT. OF 1

FOR SEISMIC RESTRAINT OF CEILING SEE "V2-840"

MAX. LIGHT FIXTURE WEIGHT 55 LB. CONNECT (2) NO.12GA. FIXTURE
SUPPORT WIRES @ DIAGONAL CORNERS OF EACH LIGHT FIXTURE.

4 TIGHT TURNS MINIMUM WITHIN 1 1/2" LENGTH OF WIRE.
ALLOWABLE ONLY AT EACH END OF SUPPORT WIRE (TYP.)

NOTE:
"T" BAR
SUPPORT WIRES
MAY NOT BE
USED TO SUPPORT
ELECTRICAL BOXES,
CONDUITS OR DEVICES
OF ANY
KIND OTHER THAN
INDIVIDUAL FLEX
CONDUIT FOR FIXTURE.

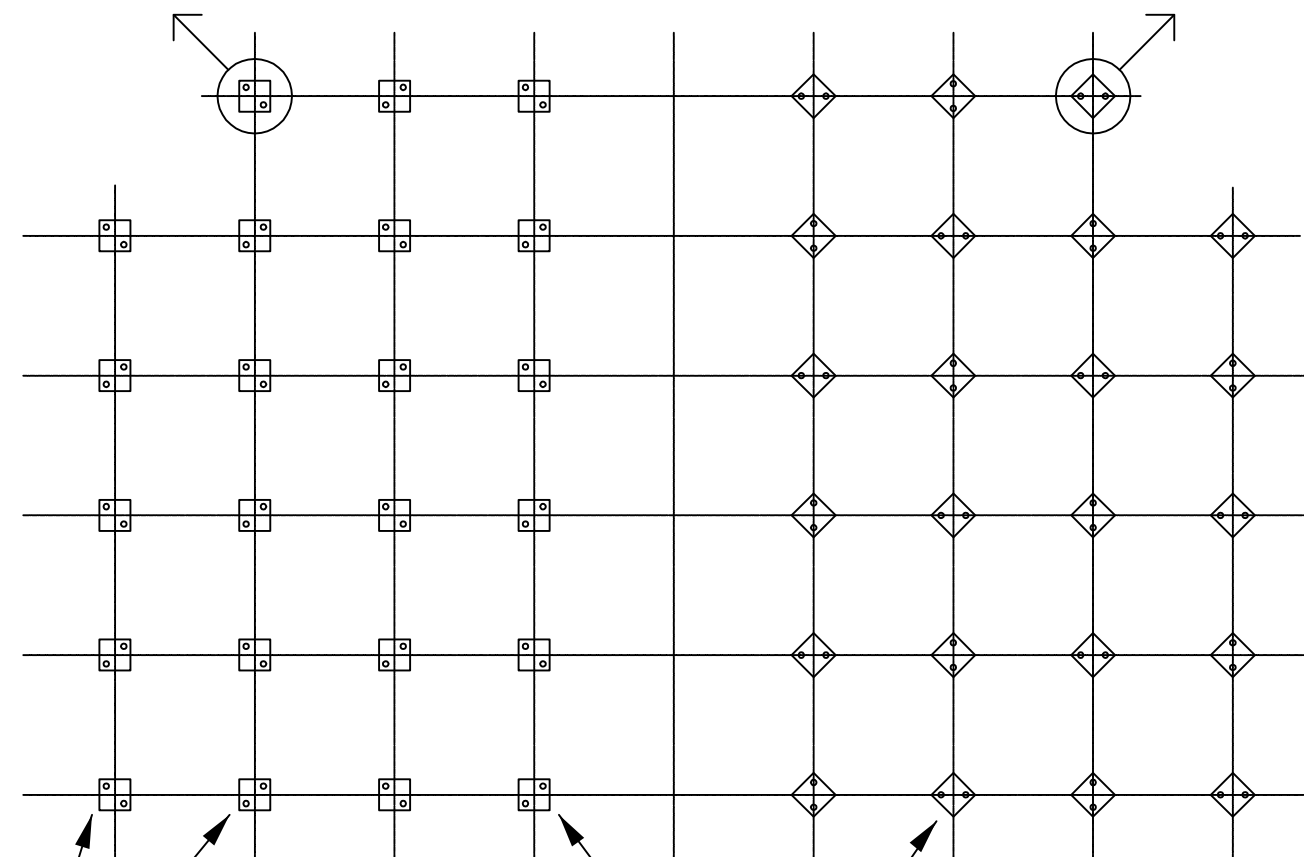
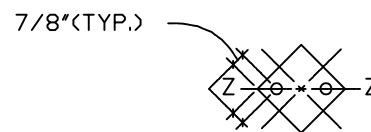
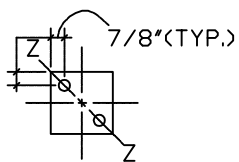


ISOMETRIC VIEW

NOTE:

1. THIS DETAIL IS INCOMPLETE WITHOUT DETAILS: V2-840, V2-841, V2-842; WHERE APPLICABLE.
2. REFERENCE V4-77 FOR ELECTRICAL SCOPE OF WORK.

LOCKHEED MARTIN SPACE SYSTEMS		V2-843		REV.
				3
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	ANDY LEUNG	DATE
DWG TITLE: SUPPORT FOR RECESSED FLOURESCENT LUMINAIRE		CHECKED		9-92
ALL FACILITIES		APPROVED		
SCALE:	NONE	CAD. ID.	V2-843	SHT. OF
				1



INSTALL EXPANSION ANCHORS ON DIAGONAL AXIS
PER ENLARGED DETAIL.
ALTERNATING PATTERN BOTH DIRECTIONS.

OPTIONAL PATTERNS, ALIGNED OR
NON-ALIGNED WITH STRINGERS.
DO NOT MIX THE PATTERNS.
USE ONE OR THE OTHER.

LOCKHEED MARTIN
SPACE SYSTEMS



V2-850

REV.

1

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN G.BRUFMAN

1-25-93

DWG TITLE: ACCESS FLOOR PEDESTAL BASE PLAN

CHECKED

ALL FACILITIES

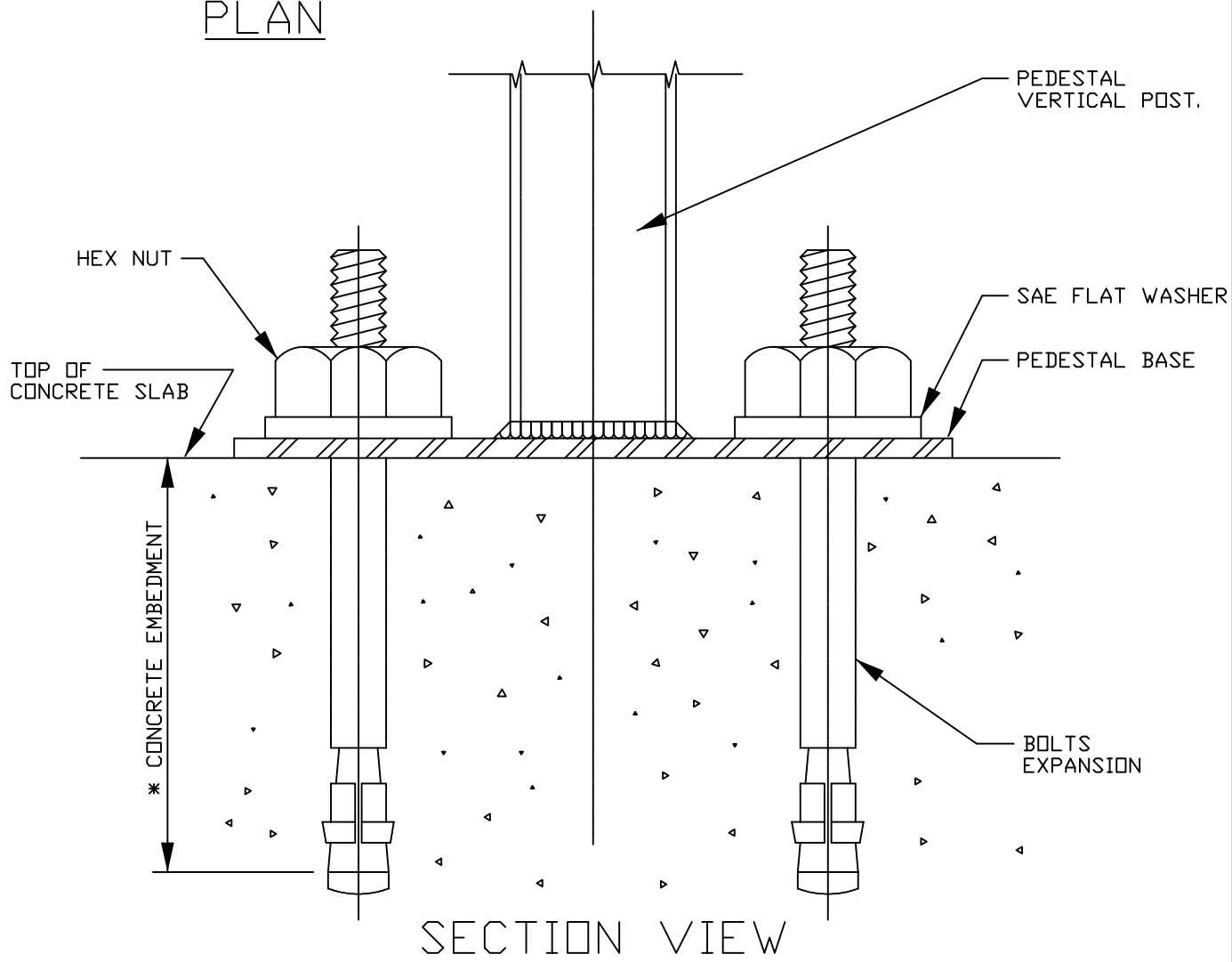
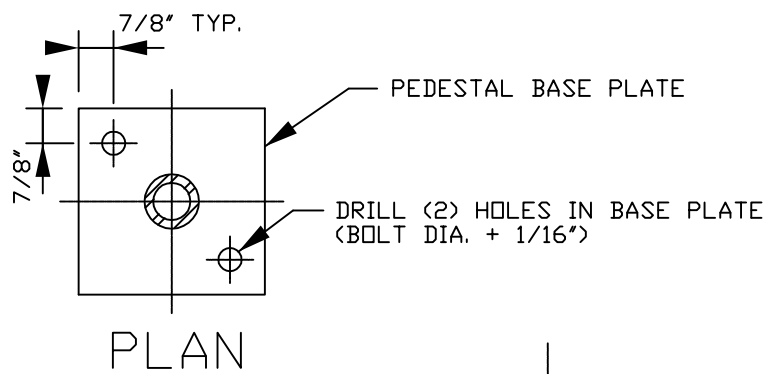
APPROVED

SCALE: 1"=1'-0"

CAD. ID. V2-850.dwg

ER NO.

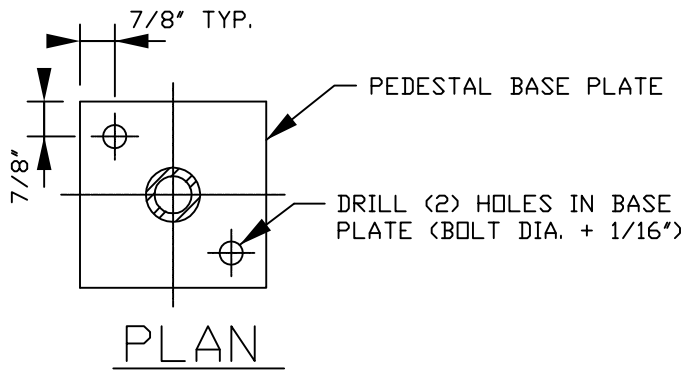
SHT. OF 1



* EMBEDMENT NOTES:

PRIOR TO INSTALLATION OF ANCHOR BOLTS, VERIFY @ SITE & CONSULT
W/L.M.S.C. ENGINEERS FOR ANY POSSIBLE INTERFERENCE WITH UNDERSLAB
UTILITIES AND/OR ELECTRICAL SERVICE LINES.

LOCKHEED MARTIN SPACE SYSTEMS		V2-851	REV. 1
			DATE
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN G.BRUFMAN	1-25-93
DWG TITLE: BOLT CONNECTION FOR ACCESS FLOOR PEDESTALS		CHECKED	
ALL FACILITIES		APPROVED	
SCALE: NONE	CAD. ID. V2-851.dwg	ER NO.	SHT. OF 1



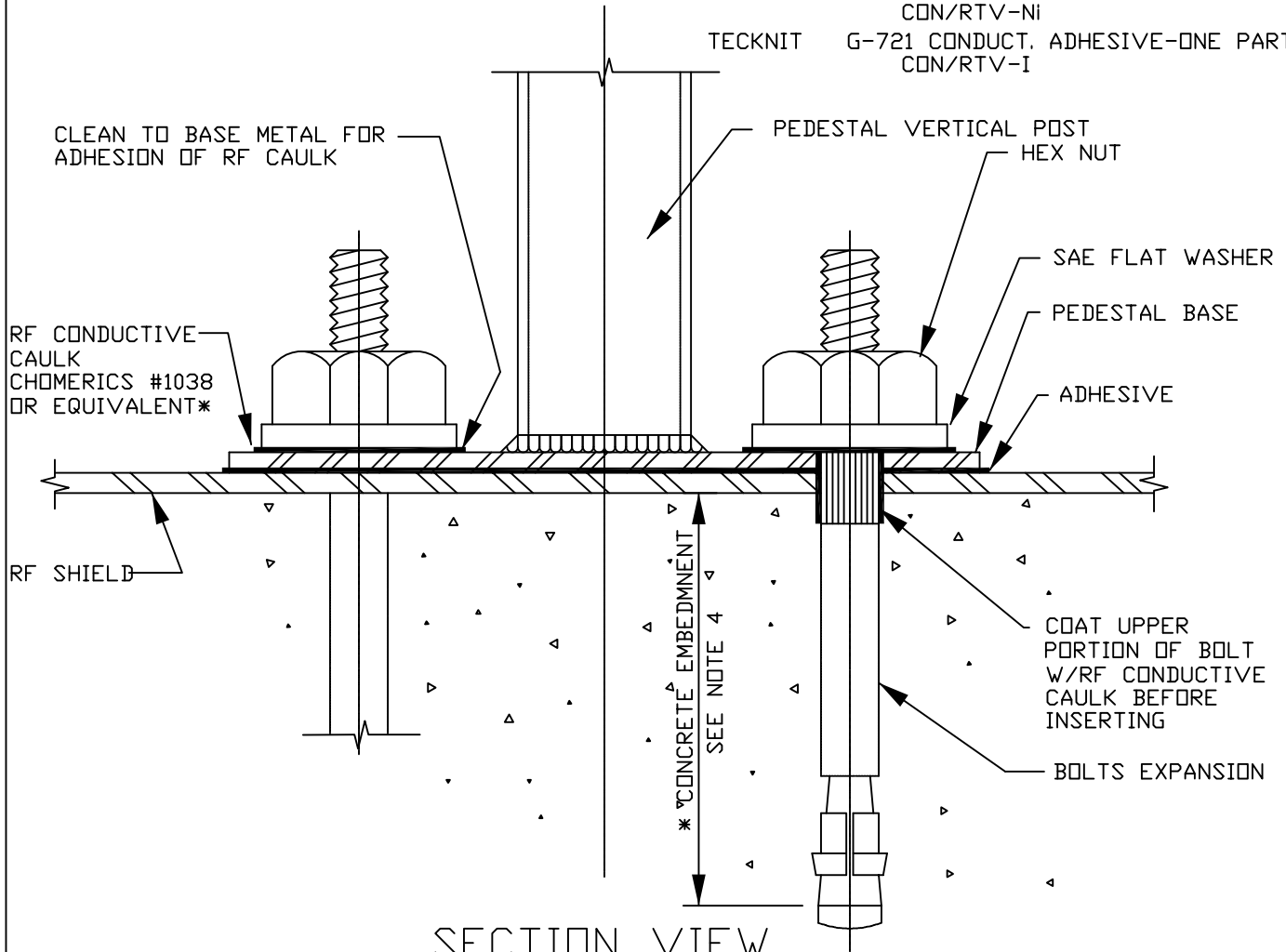
NOTES:

1. SEE SPEC FOR RF TESTING
2. SEE SPEC FOR RF CONDUCTIVE CAULK
3. LMSC STRUCTURAL & ELECTRICAL ENGINEERS, TECHNICAL SECURITY & RF SHIELD MANUF. MUST BE CONSULTED BEFORE USING DETAIL
4. PRIOR TO INSTALLATION OF ANCHOR BOLTS, VERIFY @ SITE & CONSULT W/L.M.S.C. ENGINEERS FOR ANY POSSIBLE INTERFERENCE WITH UNDERSLAB UTILITIES AND/OR ELECTRICAL SERVICE LINES.

*TECKNIT G-723 CONDUCTIVE CAULK
72-00005
72-00014

TECKNIT G-722 CONDUCTIVE ADHESIVE
CON/RTV-II
CON/RTV-Ni

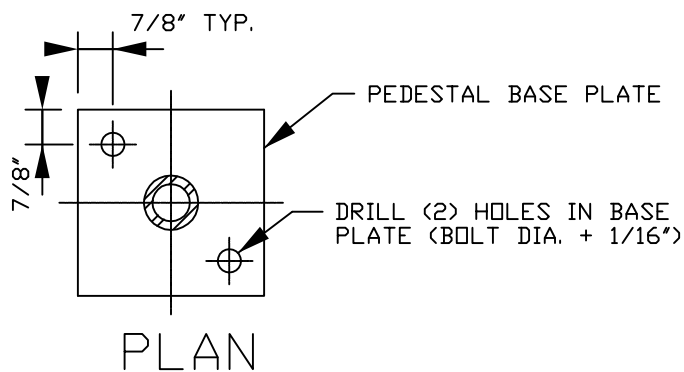
TECKNIT G-721 CONDUCT. ADHESIVE-ONE PART
CON/RTV-I



* EMBEDMENT NOTES:

PRIOR TO INSTALLATION OF ANCHOR BOLTS, VERIFY @ SITE & CONSULT W/L.M.S.C. ENGINEERS FOR ANY POSSIBLE INTERFERENCE WITH UNDERSLAB UTILITIES AND/OR ELECTRICAL SERVICE LINES.

LOCKHEED MARTIN SPACE SYSTEMS		V2-851A	REV.
			1
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN G.BRUFMAN	DATE
DWG TITLE: ACCESS FLOOR PEDESTAL CONNECTION THROUGH RF PLATE		CHECKED	01-26-93
		APPROVED	
SCALE: NONE	CAD. ID.	ER NO.	SHT. OF 1



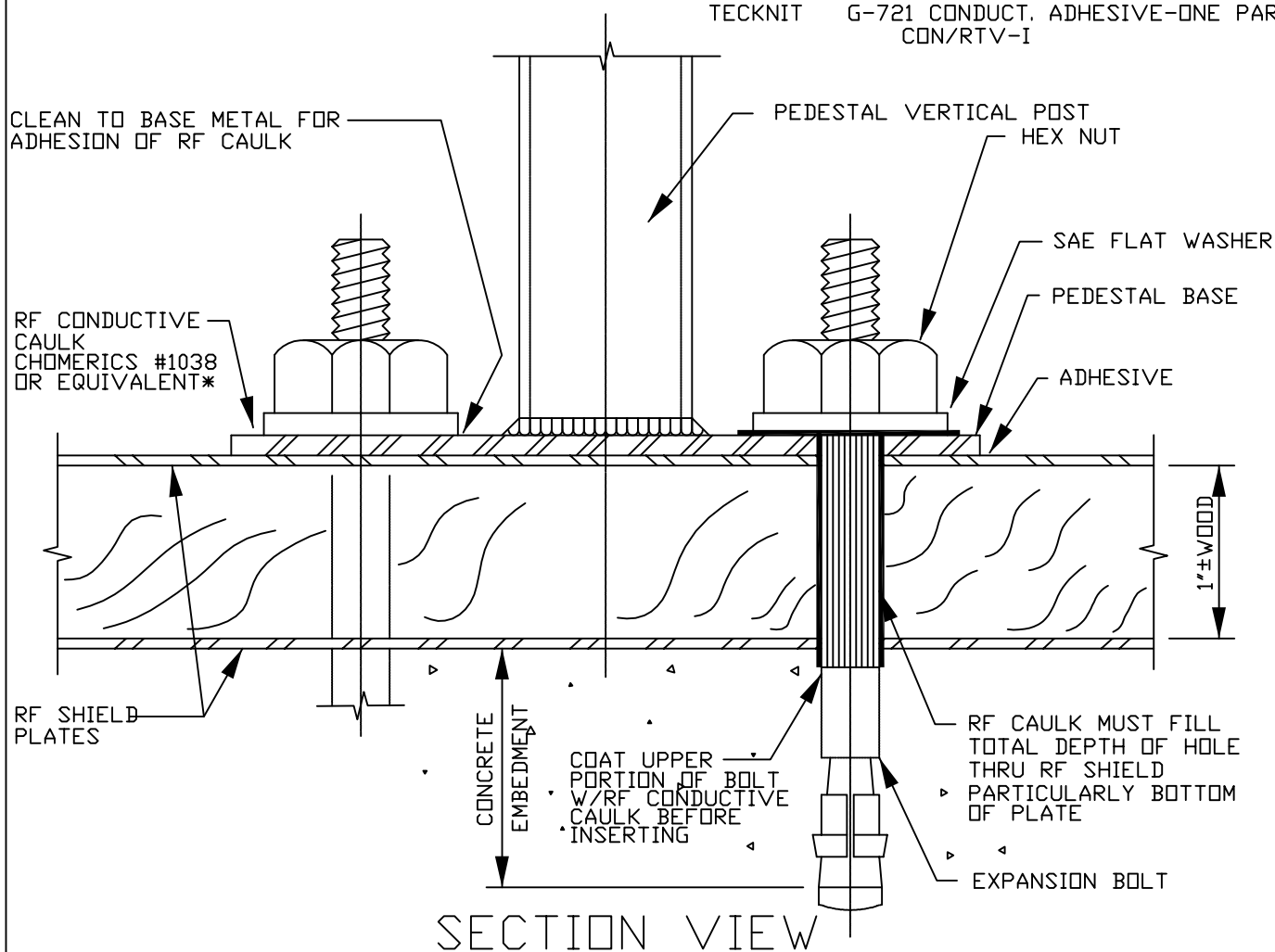
NOTES:

1. SEE SPEC FOR RF TESTING
2. SEE SPEC FOR RF CONDUCTIVE CAULK
3. LMSC STRUCTURAL & ELECTRICAL ENGINEERS, TECHNICAL SECURITY & RF SHIELD MANUF. MUST BE CONSULTED BEFORE USING DETAIL
4. PRIOR TO INSTALLATION OF ANCHOR BOLTS, VERIFY @ SITE & CONSULT W/L.M.S.C. ENGINEERS FOR ANY POSSIBLE INTERFERENCE WITH UNDERSLAB UTILITIES AND/OR ELECTRICAL SERVICE LINES.

*TECKNIT G-723 CONDUCTIVE CAULK
72-00005
72-00014

TECKNIT G-722 CONDUCTIVE ADHESIVE
CON/RTV-II
CON/RTV-Ni

TECKNIT G-721 CONDUCT. ADHESIVE-ONE PART
CON/RTV-I



* EMBEDMENT NOTES:

PRIOR TO INSTALLATION OF ANCHOR BOLTS, VERIFY @ SITE & CONSULT W/L.M.S.C. ENGINEERS FOR ANY POSSIBLE INTERFERENCE WITH UNDERSLAB UTILITIES AND/OR ELECTRICAL SERVICE LINES.

LOCKHEED MARTIN SPACE SYSTEMS		V2-851B	REV.
			1
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN G.BRUFMAN	DATE
DWG TITLE: ACCESS FLOOR PEDESTAL CONNECTION THROUGH COMPOSITE		CHECKED	01-26-93
RF PANEL - ALL FACILITIES		APPROVED	
SCALE: NONE	CAD. ID. V2-851B.dwg	ER NO.	SHT. OF 1

HILTI KWIK - BOLT

SIZE	A	B
3/8" X 3 1/2"	1 1/4"	2 1/4"
1/2" X 3 3/4"	1 3/8"	2 3/8"
5/8" X 4 1/2"	1 1/2"	3"
3/4" X 5 1/2"	1 5/8"	3 7/8"

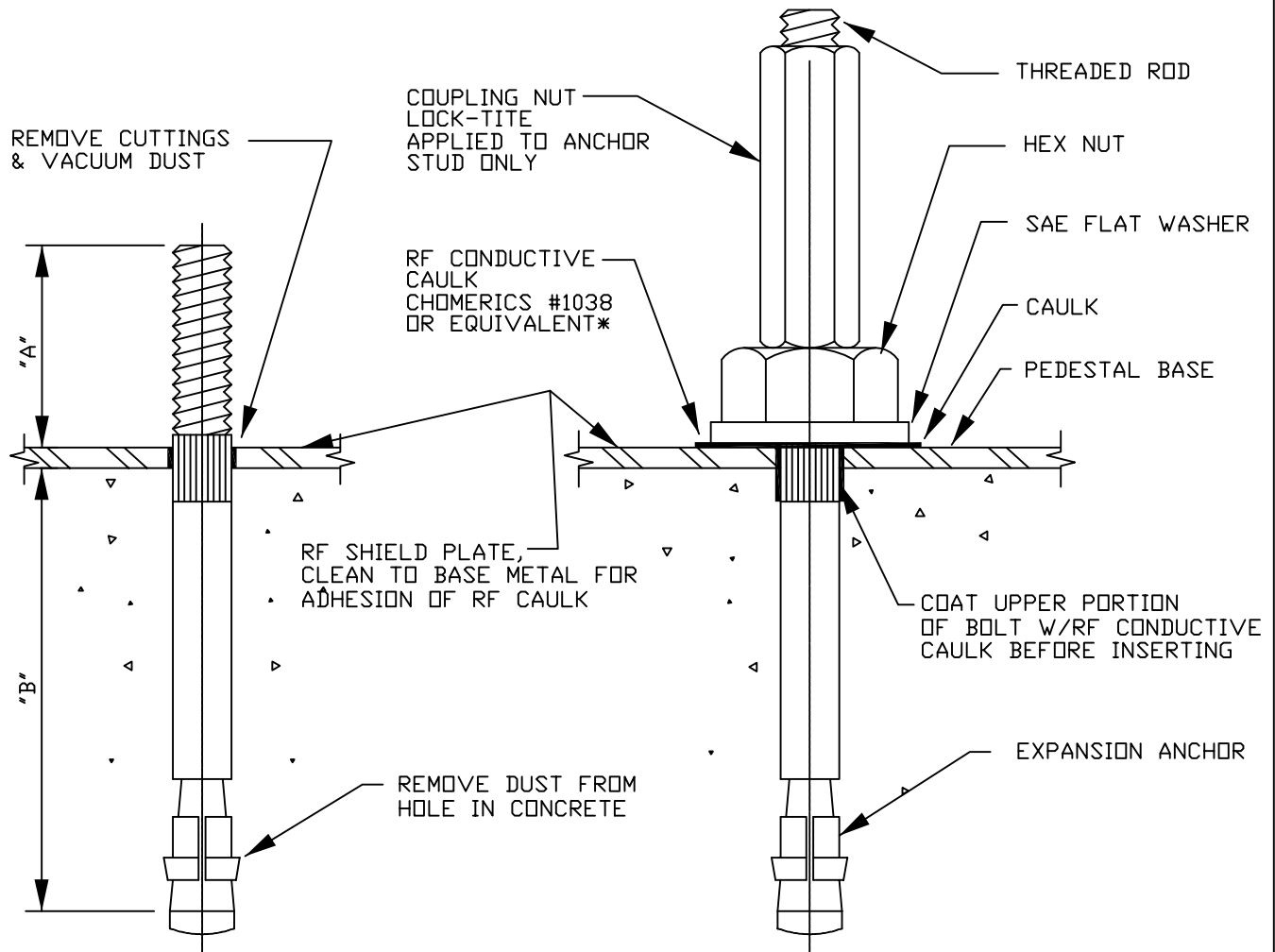
NOTES:

1. SEE SPEC FOR RF CAULK MATERIAL
2. SEE SPEC FOR RF TEST PROCEDURE
3. LMSC STRUCTURAL & ELECTRICAL ENGINEERS, TECHNICAL SECURITY & RF SHIELD MANUF. MUST BE CONSULTED BEFORE USING DETAIL
4. PRIOR TO INSTALLATION OF ANCHOR BOLTS, VERIFY @ SITE & CONSULT W/L.M.S.C. ENGINEERS FOR ANY POSSIBLE INTERFERENCE WITH UNDERSLAB UTILITIES AND/OR ELECTRICAL SERVICE LINES.

*TECKNIT G-723 CONDUCTIVE CAULK
72-00005
72-00014

TECKNIT G-722 CONDUCTIVE ADHESIVE
CON/RTV-II
CON/RTV-Ni

TECKNIT G-721 CONDUCT. ADHESIVE-ONE PART
CON/RTV-I



TIGHTENED SETTING FINISHED INSTALLATION
(NUT & WASHER REMOVED)

LOCKHEED MARTIN
SPACE SYSTEMS



V2-851C

REV.

1

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN G.BRUFMAN

01-27-93

DWG TITLE: EXPANSION BOLT CONNECTION THROUGH RF PLATE

CHECKED

ALL FACILITIES

APPROVED

1

SCALE: NONE

CAD. ID. V2-851C.dwg

ER NO.

SHT. OF 1

HILTI KWIK - BOLT

SIZE	A	B
3/8" X 5"	1 1/4"	2 3/4"
1/2" X 5 1/2"	1 3/8"	3"
5/8" X 6"	1 1/2"	3 1/2"
3/4" X 7"	1 5/8"	4 3/8"

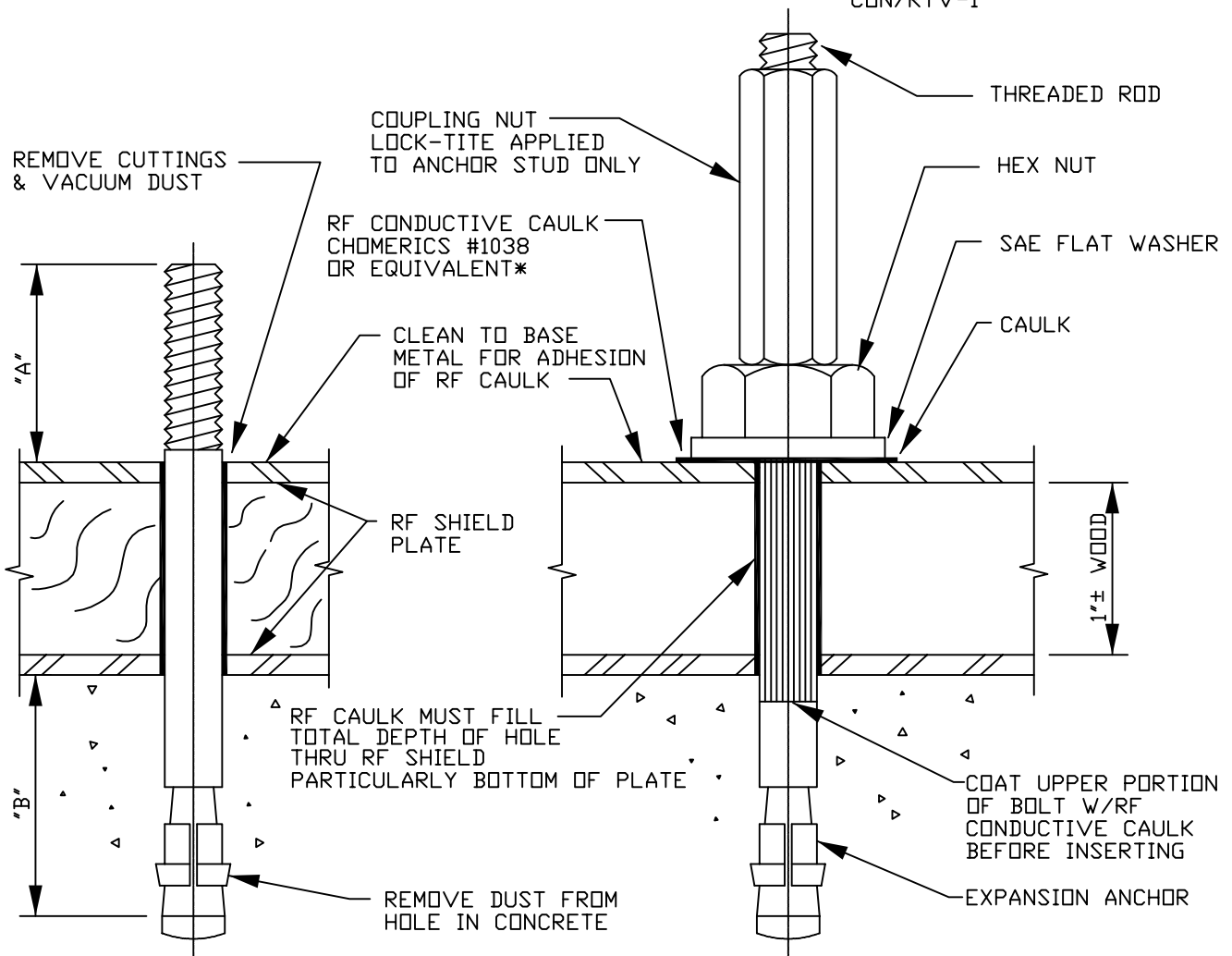
NOTES:

1. SEE SPEC FOR RF CAULK MATERIAL
2. SEE SPEC FOR RF TEST PROCEDURE
3. LMSC STRUCTURAL & ELECTRICAL ENGINEERS, TECHNICAL SECURITY & RF SHIELD MANUF. MUST BE CONSULTED BEFORE USING DETAIL
4. PRIOR TO INSTALLATION OF ANCHOR BOLTS, VERIFY @ SITE & CONSULT W/L.M.S.C. ENGINEERS FOR ANY POSSIBLE INTERFERENCE WITH UNDERSLAB UTILITIES AND/OR ELECTRICAL SERVICE LINES.

*TECKNIT G-723 CONDUCTIVE CAULK
72-00005
72-00014

TECKNIT G-722 CONDUCTIVE ADHESIVE
CON/RTV-II
CON/RTV-Ni

TECKNIT G-721 CONDUCT. ADHESIVE-ONE PART
CON/RTV-I



TIGHTENED SETTING FINISHED INSTALLATION
(NUT & WASHER REMOVED)

LOCKHEED MARTIN
SPACE SYSTEMS



V2-851D

REV.

1

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN G.BRUFMAN

01-28-93

DWG TITLE: EXPANSION BOLT CONNECTION THROUGH COMPOSITE RF PANEL

CHECKED V2-851D.dwg

ALL FACILITIES

APPROVED

SCALE: NONE

CAD. ID.

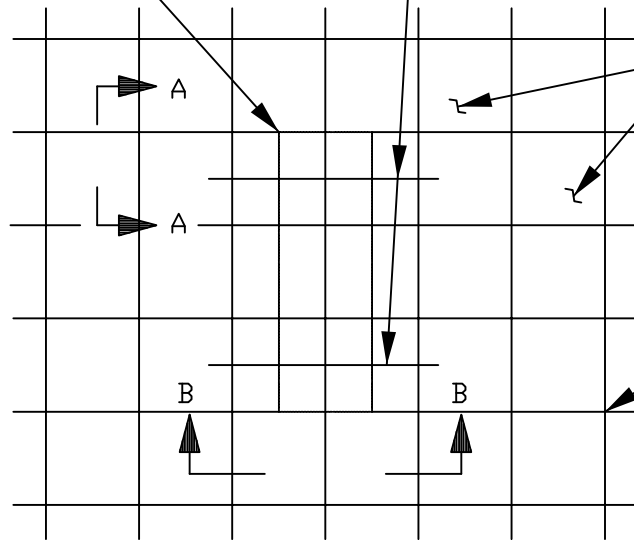
ER NO.

SHT. OF

1

HEAVY EQUIPMENT

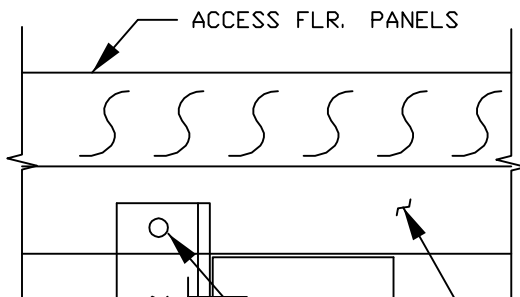
UNISTRUT CHANNELS



2'-0" x 2'-0"
ACCESS FLOOR PANELS

STRINGERS

PLAN



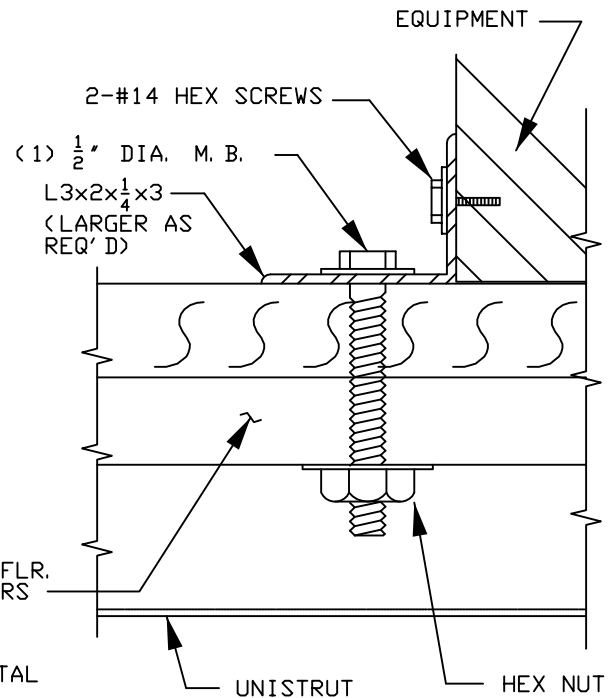
L1" x 1" x $\frac{1}{8}$ "
x 1 $\frac{1}{2}$ " LONG

ACCESS FLR.
STRINGERS

P1000 UNISTRUT
CHANNEL, OR EQ.

#10 SHEET METAL
SCREW AT END
STRINGERS

SECTION AA



2-#14 HEX SCREWS

(1) $\frac{1}{2}$ " DIA. M. B.
L3x2x $\frac{1}{4}$ x3
(LARGER AS
REQ'D)

UNISTRUT

HEX NUT

SECTION BB

NOTE: CONSULT STRUCTURAL ENGINEERS
BEFORE USING THIS DETAIL

LOCKHEED MARTIN
SPACE SYSTEMS



V2-852

REV.

2

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN BPALMON

8-20-96

DWG TITLE: EQUIPMENT TIE-DOWN TO ACCESS FLOOR

CHECKED

ALL FACILITIES

APPROVED

SCALE: N.T.S.

CAD. ID. V2-852.dwg

ER NO.

SHT.
OF 1

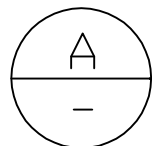
2-#10 SHEET METAL SCREWS
OR 3/8"Ø MB'S TO SUIT
EQUIPMENT CONDITION

ACCESS FLOOR PANELS

HEAVY EQUIPMENT

L3X3X3/8"X0'-3"
(2 OF EA. @ FRONT & BACK)

PEDESTALS

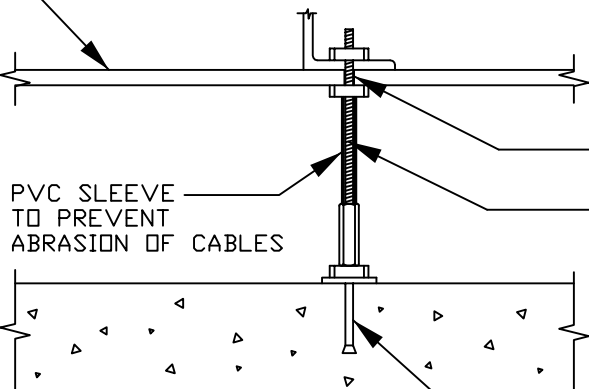


SECTION

L3X3

HEAVY EQUIPMENT

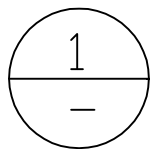
ACCESS FLOOR PANELS



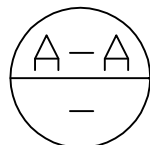
PVC SLEEVE
TO PREVENT
ABRASION OF CABLES

HOLE SIZE EQUAL
BOLT DIA. + 1/8"
1/2"Ø ANCHOR
THREADED ROD

1/2"Ø EXPANSION ANCHOR W/COUPLING
& 2 1/2" MIN. EMBEDMENT IN CONC.
SEE APPROPRIATE BOLT CONNECTION DETAIL.



DETAIL



SECTION

NOTE: L.M.S.C. STRUCTURAL ENGINEERS MUST BE CONSULTED
BEFORE USING THIS DETAIL.

LOCKHEED MARTIN
SPACE SYSTEMS



V2-853

REV.

2

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN G.BRUFMAN

01-29-93

DWG TITLE: EQUIP. TIE-DOWN TO CONC. FLR. THRU. ACCESS FLR. PNL.-1

CHECKED

ALL FACILITIES

APPROVED

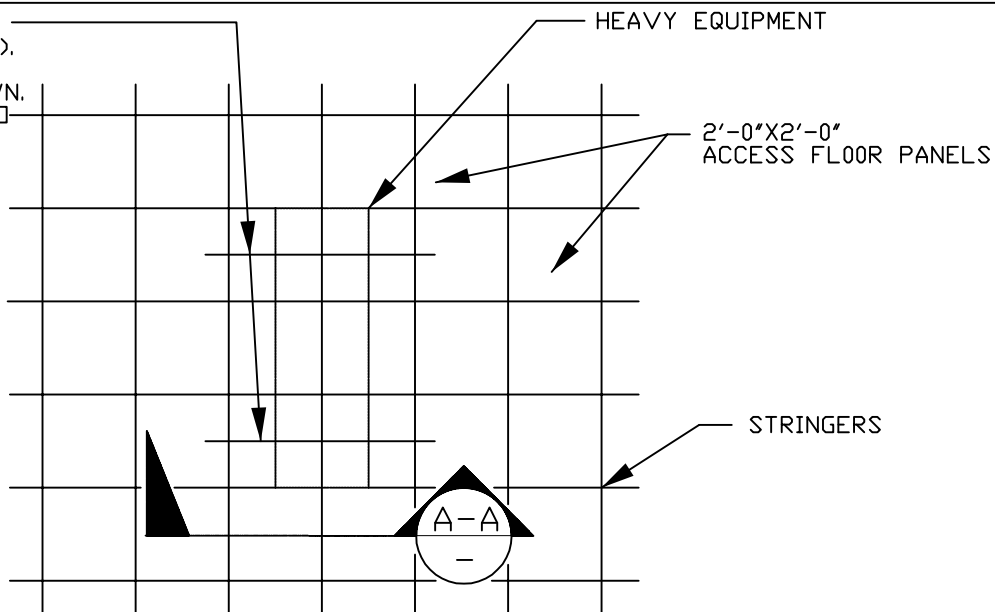
SCALE: NONE

CAD. ID. V2-853.dwg

ER NO.

SHT. OF 1

P-1000 UNISTRUT (LENGTH TO SUIT EQUIPMENT ANCHORAGE), PREFERRED ORIENTATION OF UNISTRUT (OR EQ.) AS SHOWN. ALTERNATE ARRANGEMENT TO SUIT INTERFERENCES MUST BE APPROVED BY L.M.S.C. CONSTRUCTION ENGINEER.



PLAN

OUTSIDE FACE OF EQUIPMENT

1/2" Ø ANCHOR THREADED ROD

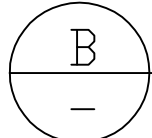
STEEL PLATE CUT TO FIT INSIDE EQUIPMENT.

ACCESS FLOOR PANELS

PVC SLEEVE TO PREVENT ABRASION OF CABLES

P1000 UNISTRUT, OR EQ.

UNISTRUT NUT, OR EQ.



DETAIL

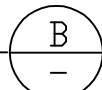
HEAVY EQUIPMENT

BOLT INSIDE OF EQUIPMENT FRAME WHEREVER PRACTICAL.

6" TYP.

P1000 UNISTRUT, OR EQ.

1/2" Ø EXP. ANCHORS W/ 2 1/2" MIN. EMBEDMENT IN CONC., TYP.



EXP. ANCHORS

A-A SECTION

NOTE: L.M.S.C. STRUCTURAL ENGINEERS MUST BE CONSULTED BEFORE USING THIS DETAIL.

LOCKHEED MARTIN
SPACE SYSTEMS



V2-854

REV.

2

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN G.BRUFMAN

01-29-93

DWG TITLE: EQUIP. TIE-DOWN TO CONC. FLR. THRU. ACCESS FLR. PNL.-2

CHECKED

ALL FACILITIES

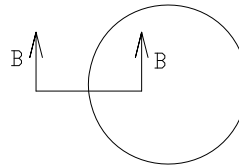
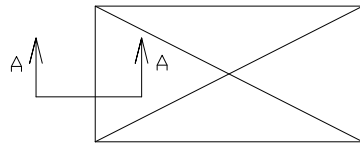
APPROVED

SCALE: NONE

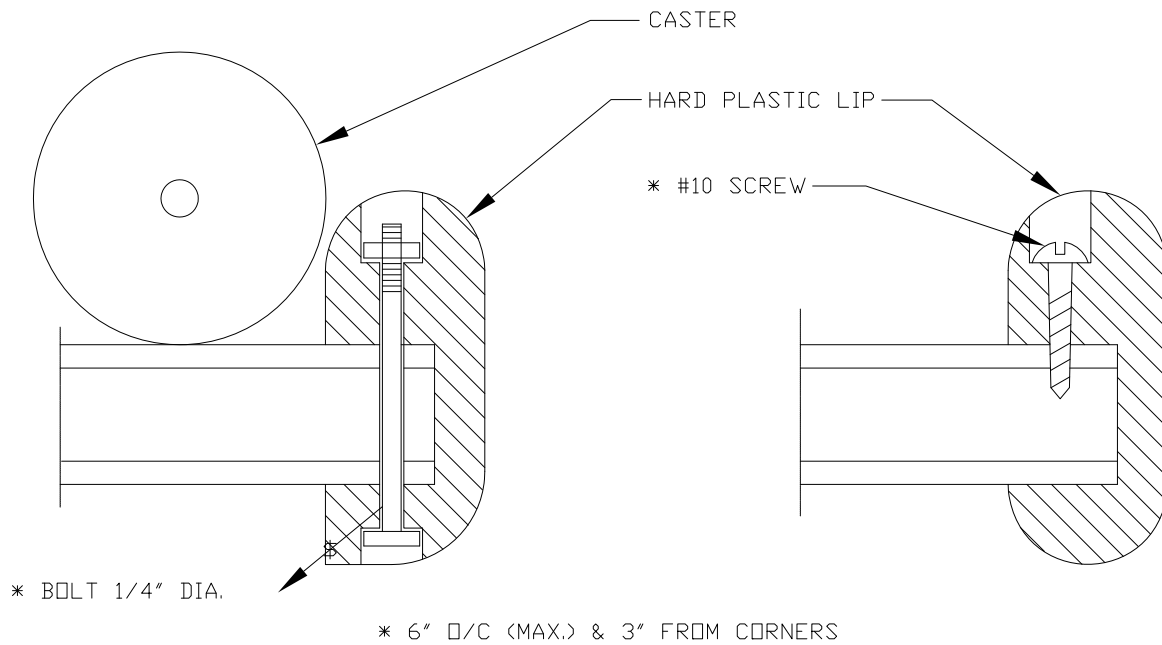
CAD. ID. V2-854.dwg

ER NO.

SHT. OF 1



FLOOR PENETRATIONS



SECTION AA

SECTION BB

FLOOR PENETRATION GUARDS

TO PREVENT THE EQUIPMENT FROM ROLLING INTO HOLES IN THE FLOOR, A HARD PLASTIC LIP SIMILAR TO THE ONE SHOWN SHOULD BE PROVIDED AROUND FLOOR PENETRATIONS NEAR OR UNDER THE EQUIPMENT. THIS EXTRUDED PLASTIC STRIP WILL ACT AS A BUMPER GUARD TO PREVENT THE EQUIPMENT FROM ROLLING INTO THE HOLE. IT WILL ALSO SERVE AS A PROTECTIVE SURFACE TO PERMIT THE EQUIPMENT TO SLIDE OR ROLL WITHOUT TEARING OR CATCHING THE EQUIPMENT CABLES ON THE ROUGH METAL EDGES OF THE FLOOR PENETRATION.

LOCKHEED MARTIN
SPACE SYSTEMS



V2-855A

REV.	1
DATE	09-90
SHT. OF	1

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN B. PALMON

DWG TITLE: RAISED FLOOR PENETRATION GUARDS

CHECKED

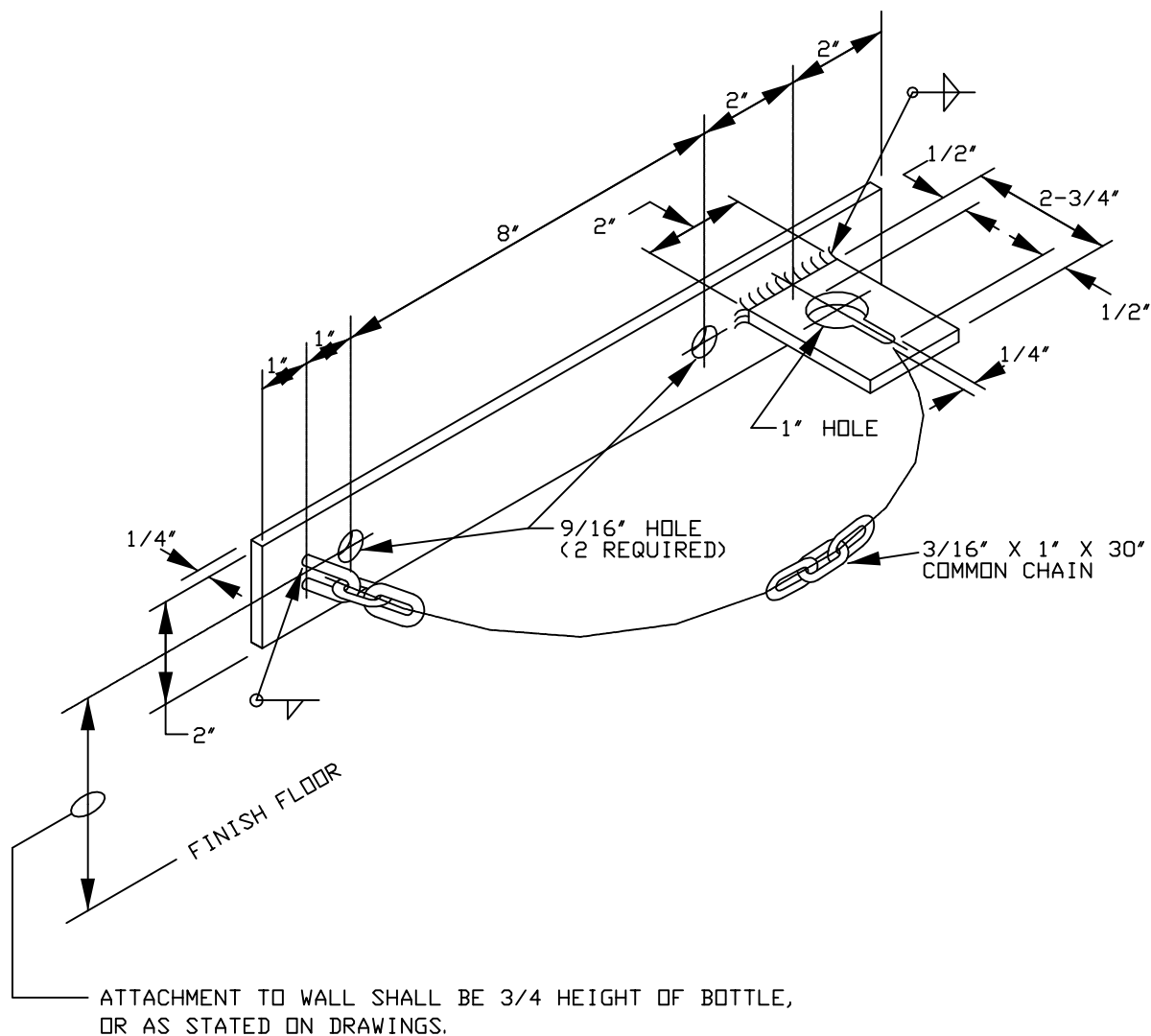
ALL FACILITIES

APPROVED

SCALE: N.T.S.

CAD. ID. V2-855A.dwg

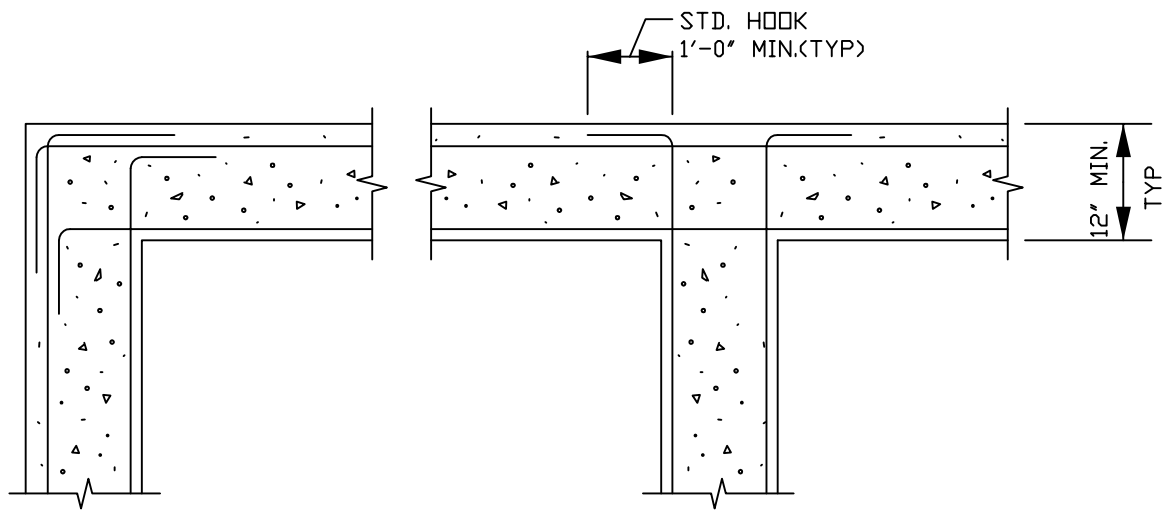
ER NO.



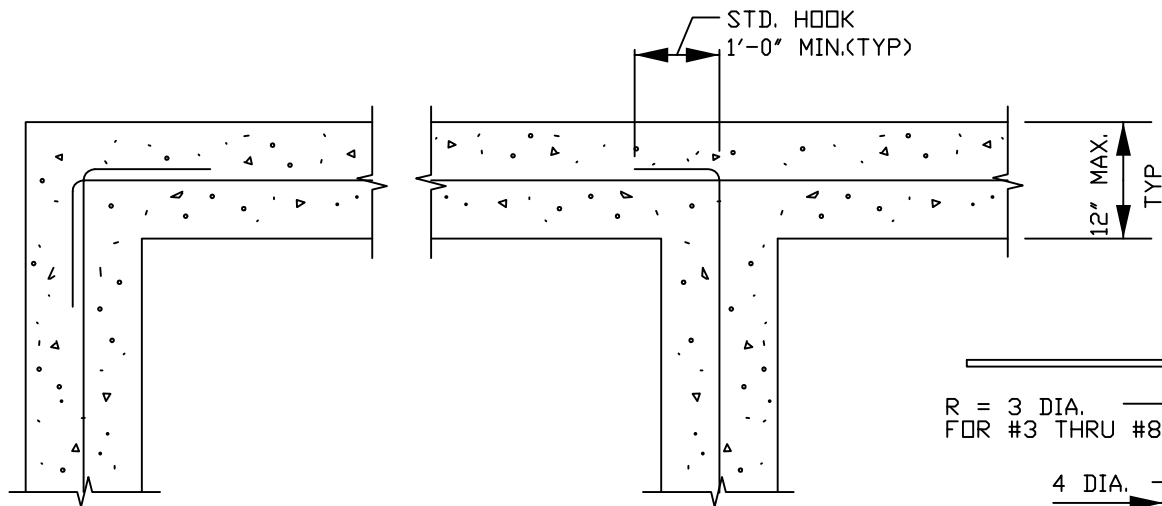
NOTE:

1. 1/4" X 2" X 14" COLD ROLLED STEEL BACK PLATE
2. 1/4" X 2" X 2-3/4" COLD ROLLED STEEL CHAIN AND LOCK PLATE
3. PAINT:
 - 1 COAT ZINC CHROMATE
 - 2 COATS ENAMEL, PER FED SPEC #595, YELLOW, COLOR NO. 13538
OR MATCH EXISTING DECOR
4. GAS BOTTLE RACK SHALL ONLY BE USED TO ANCHOR
ONE BOTTLE AT A TIME. GANG CHAINING OF BOTTLES
WILL NOT BE ALLOWED. IN ADDITION, EACH BOTTLE MUST
BE ACCESSIBLE AT ALL TIMES.

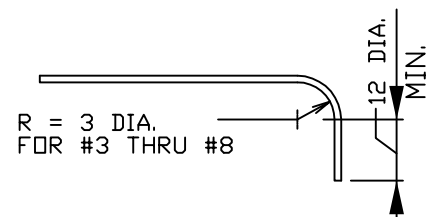
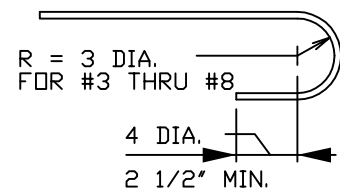
LOCKHEED MARTIN SPACES SYSTEMS		V2-856	REV.
			1
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN JIM BARGAS	DATE
DWG TITLE: RACK - GAS BOTTLE TO WALL		CHECKED	2-8-89
ALL FACILITIES		APPROVED	
SCALE: NONE	CAD. ID. V2-856.DWG	ER NO.	SHT. OF 1



TWO LAYER REINF.



ONE LAYER REINF.



TYPICAL WALL/FOOTING
INTERSECTION DETAILS

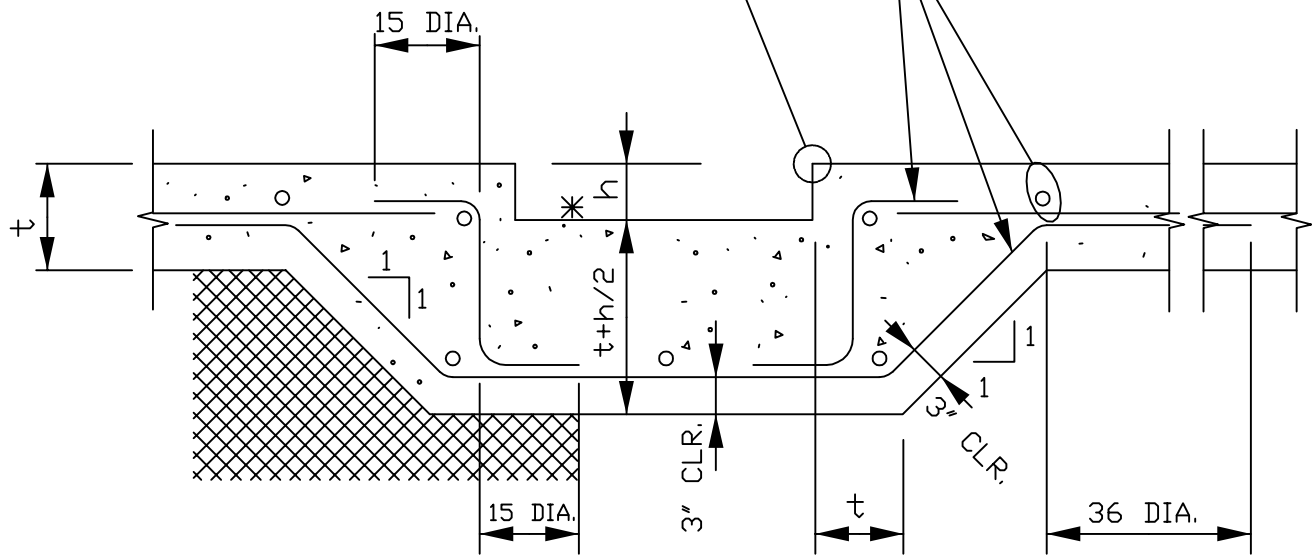
STD. HOOKS

LOCKHEED MARTIN SPACE SYSTEMS		V2-857	REV.
			0
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN G.BRUFMAN	DATE
DWG TITLE: TYPICAL NON-SHEAR WALL/FTG. INTERSECTION DETAILS		CHECKED	02-01-93
ALL FACILITIES		APPROVED	
SCALE: NONE	CAD. ID. V2-857.dwg	ER NO.	SHT. OF 1

* MAX $h = 1 \frac{1}{2} t$

SEE PLAN FOR CORNER
ANGLE IF REQUIRED

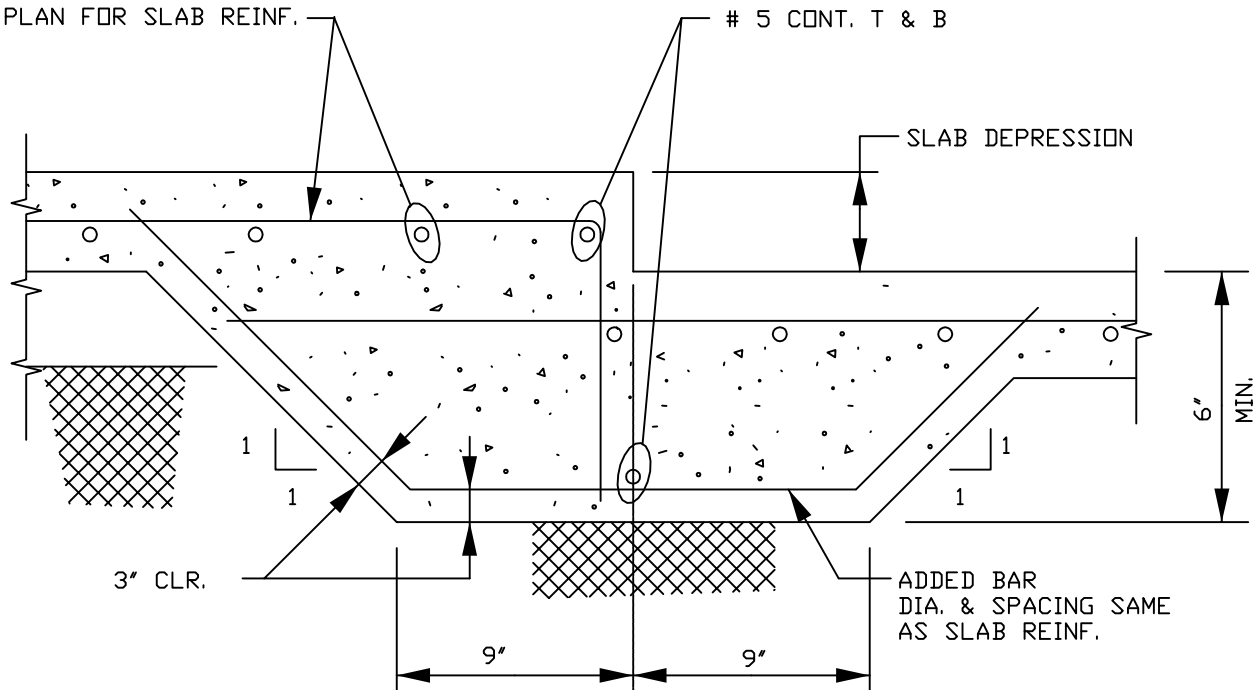
BAR DIA. & SPACING
SAME AS SLAB REINF.



MONOLITHIC TRENCH IN GRADE SLAB

SEE PLAN FOR SLAB REINF.

5 CONT. T & B



GRADE SLAB DEPRESSION

LOCKHEED MARTIN
SPACE SYSTEMS



V2-858

REV.

0

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN G.BRUFMAN

02-01-93

DWG TITLE: SLAB-ON-GRADE TRENCH & DEPRESSION DETAILS

CHECKED

ALL FACILITIES

APPROVED

SCALE: NONE

CAD. ID. V2-858.dwg

ER NO.

SHT. OF 1

SAWCUT WITHIN 24 HRS.
AFTER POURING SLAB

1/4" $t/4$

t

POLYSULFIDE BASE SEALANT

JT2
(CONCEALED SLAB)

1/8" RADIUS
TOOLED EDGE

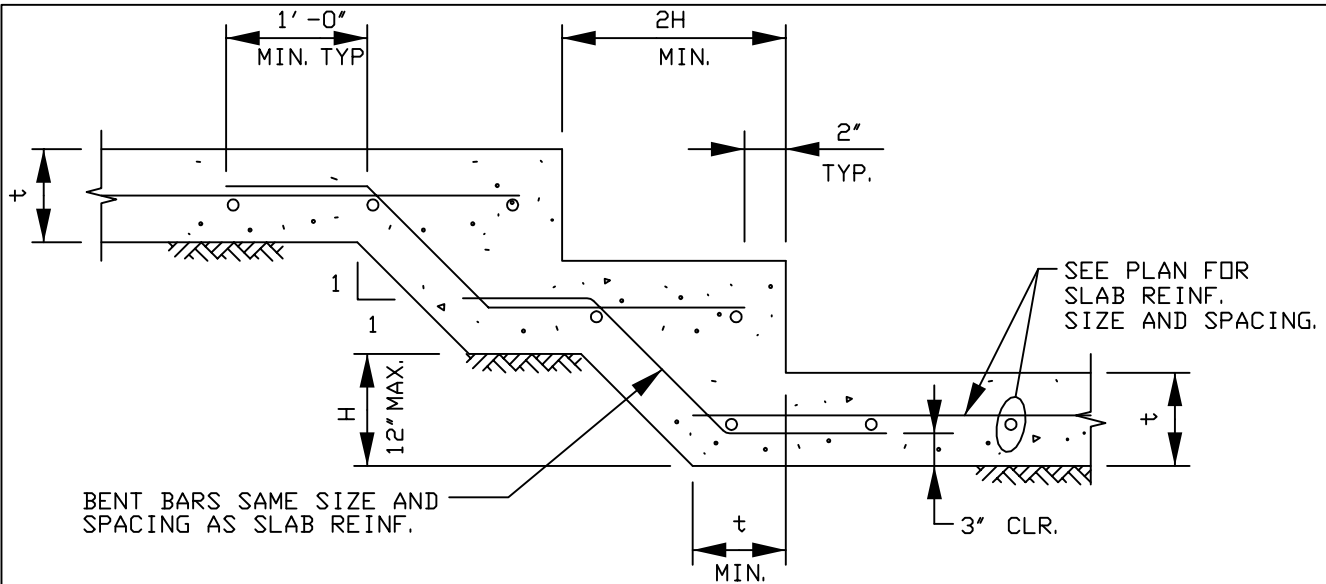
$t/4$

JT3
(EXPOSED SLAB)

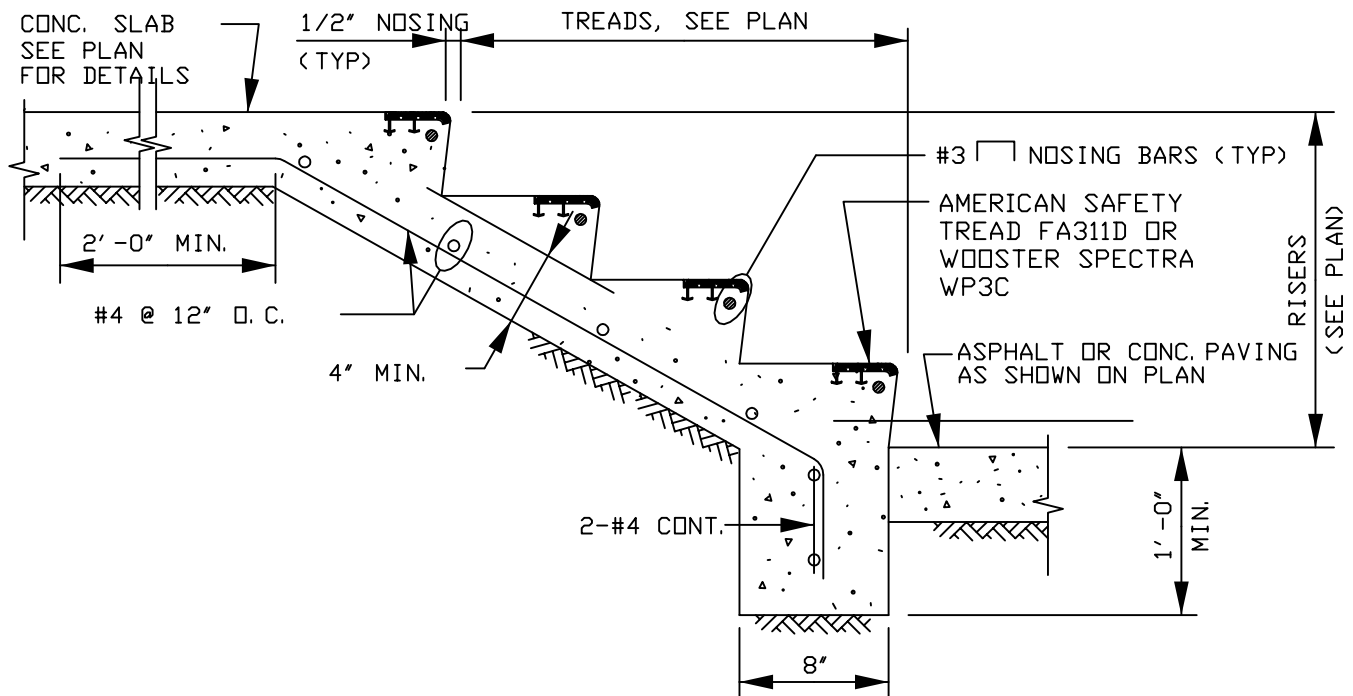
QUICK JOINT
PLASTIC INSERT

1/8" $t/4$

JT4
(CONCEALED SLAB)

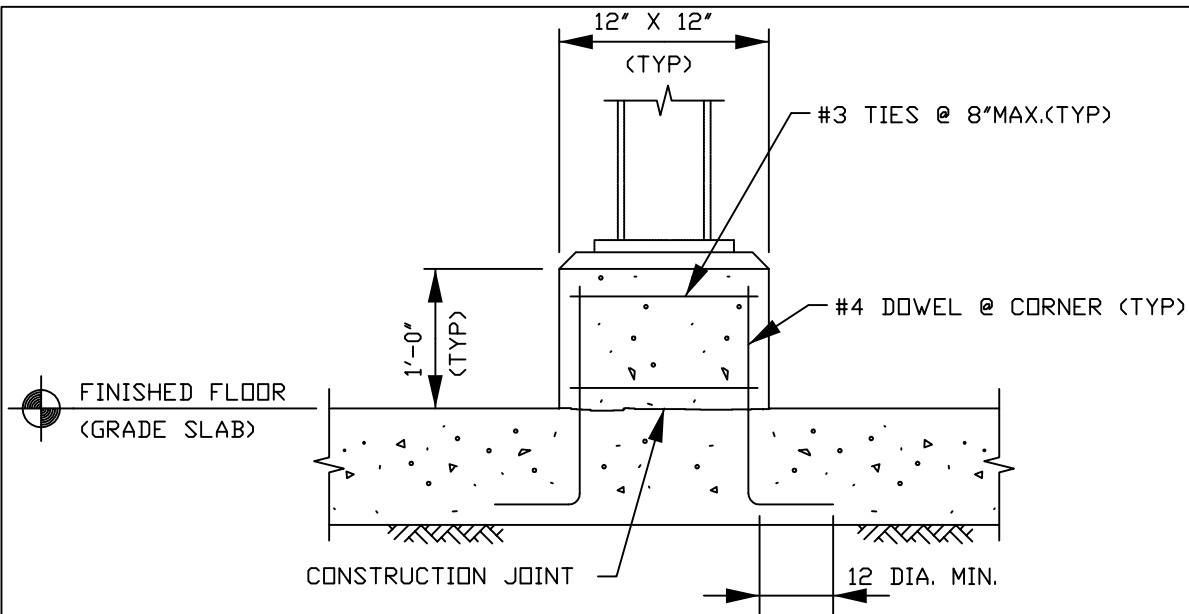


TYPICAL STEPPED FOOTING

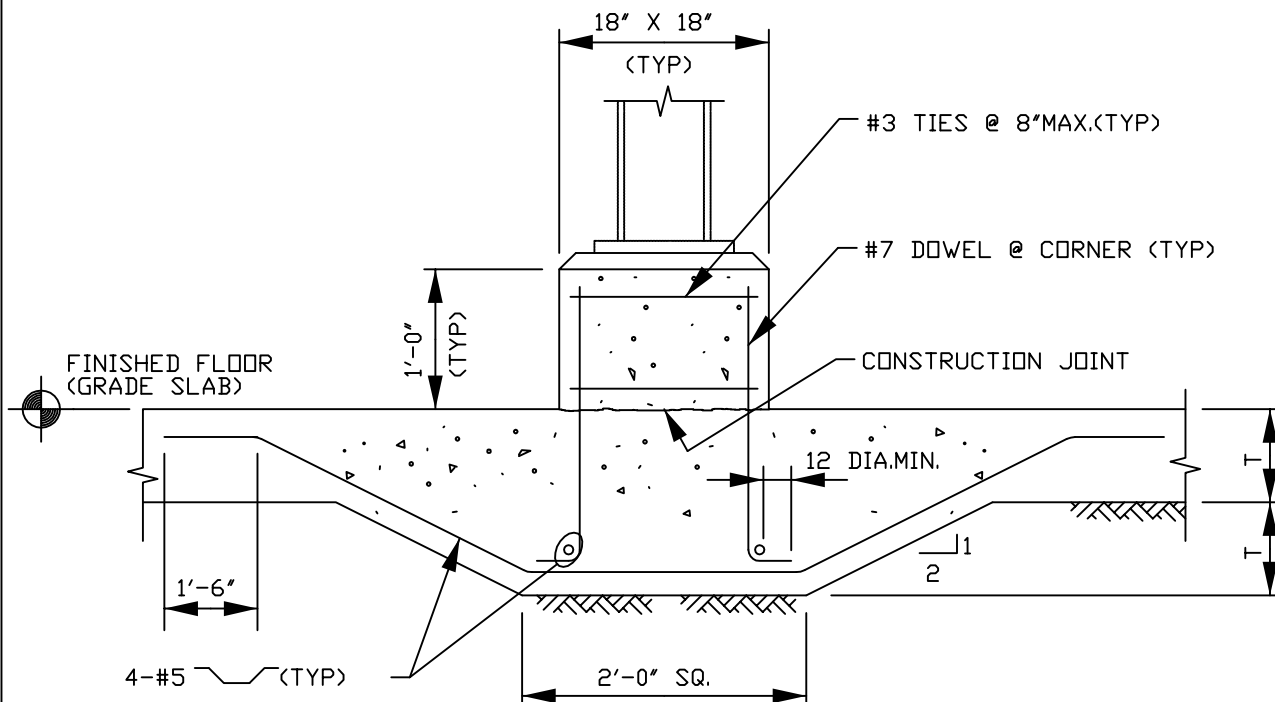


CONCRETE STEPS ON GRADE

LOCKHEED MARTIN SPACE SYSTEMS		V2-860	REV.
			1
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN G.BRUFMAN	DATE
DWG TITLE: STEPPED FOOTING AND STEPS ON GRADE		CHECKED	02-01-93
NONE		APPROVED	
SCALE: NONE	CAD. ID. V2-860.dwg	ER NO.	SHT. OF

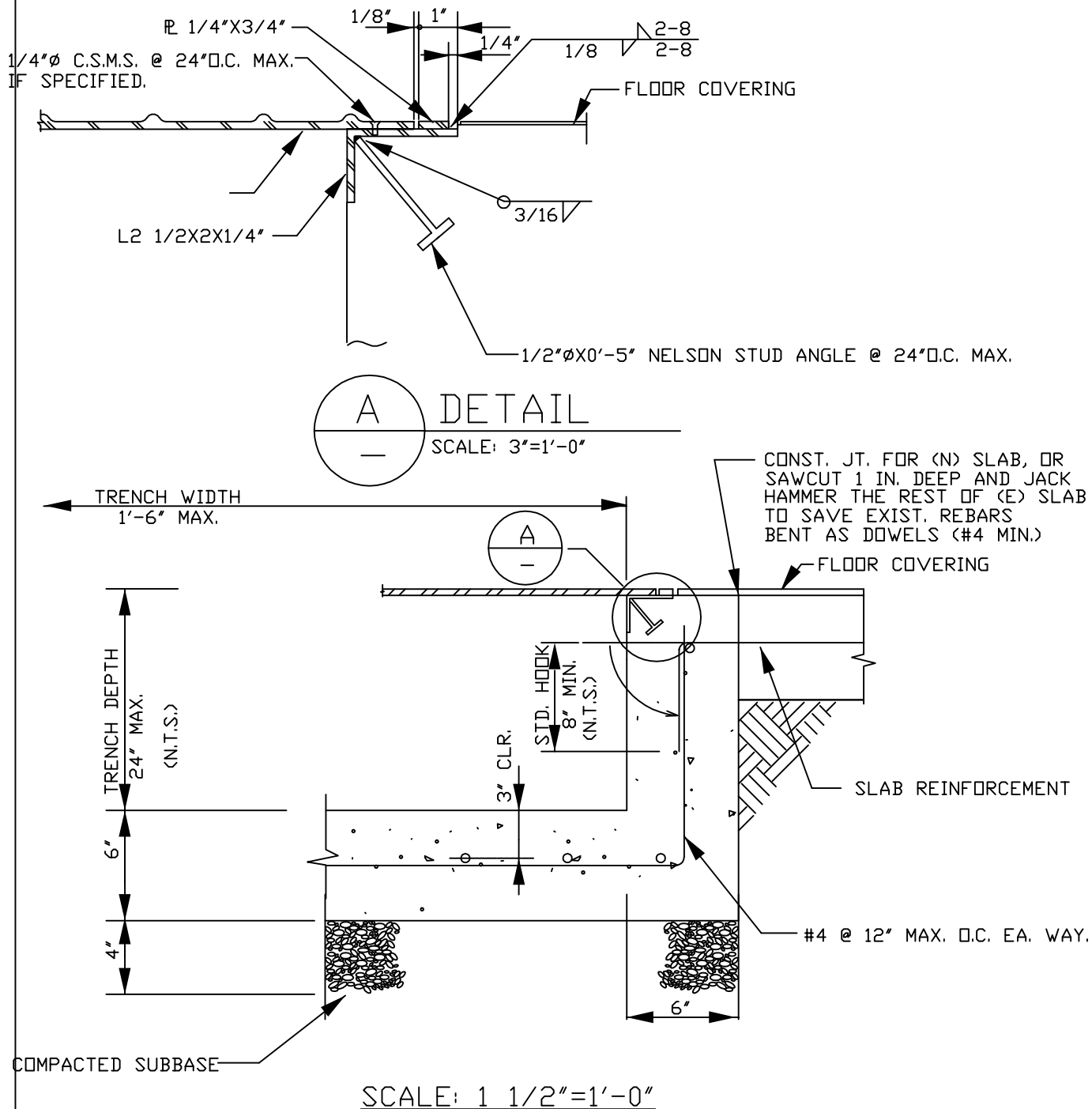


PEDESTAL FOR MINOR POSTS



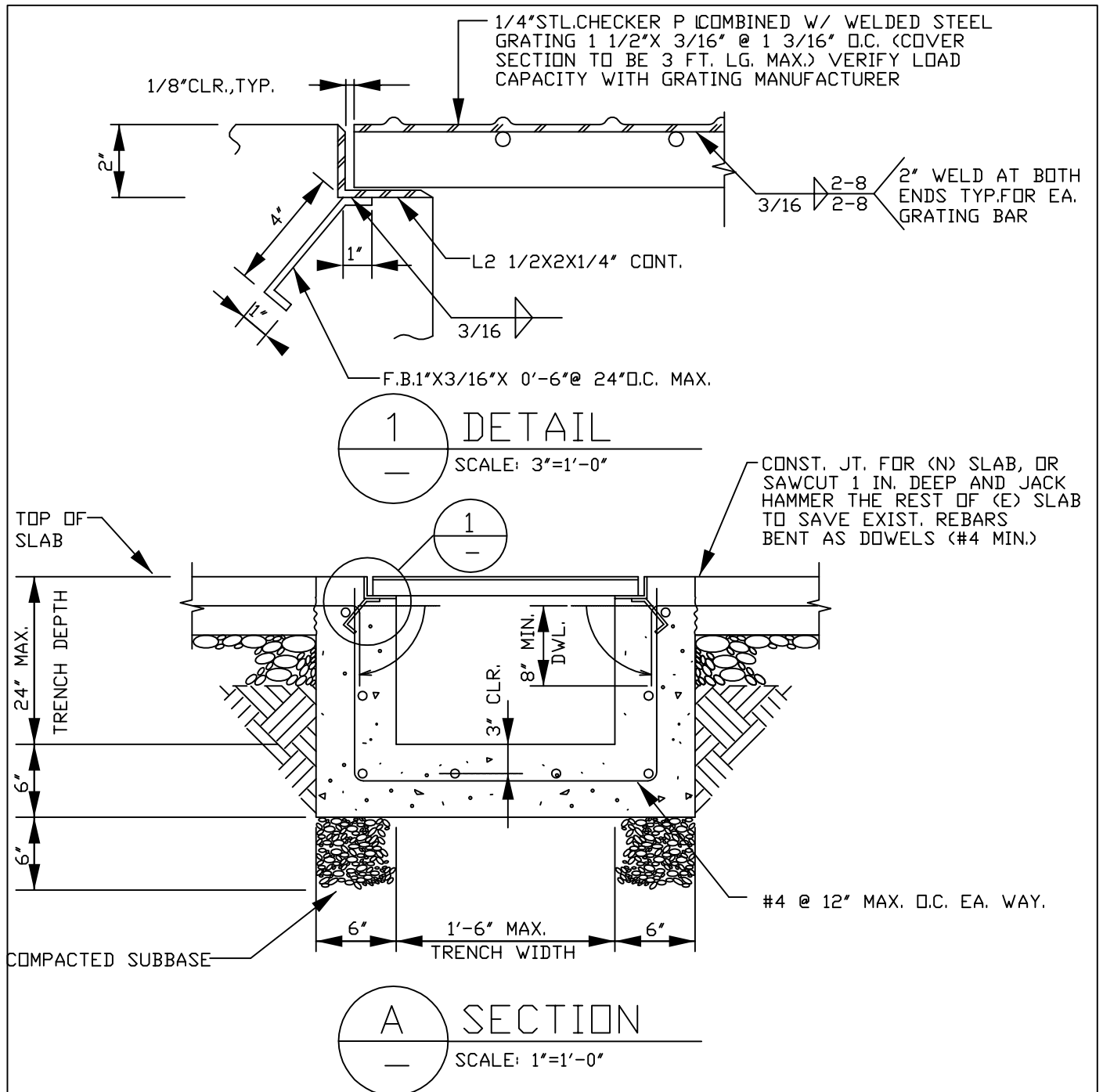
PEDESTAL FOR LIGHT COLUMNS

LOCKHEED MARTIN SPACE SYSTEMS		V2-861	REV. 0
			DATE
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN BRUFMAN	02-01-93
DWG TITLE: PEDESTAL FOR MINOR POSTS AND LIGHT COLUMNS		CHECKED	
ALL FACILITIES		APPROVED	
SCALE: NONE	CAD. ID. V2-861.dwg	ER NO.	SHT. OF 1



- NOTE:**
1. THIS TRENCH DESIGN IS FOR 250 PSF UNIF. LOAD ONLY.
 2. FOR (E) SLAB W/MESH OR #3 REBARS, STRUCTURAL ENGINEER SHALL BE CONSULTED.
 3. CONCRETE COMPRESSIVE STRENGTH 2,500 PSI (MIN.)
 4. NO SPECIAL INSPECTION REQUIRED FOR WELDING AND CONCRETE.

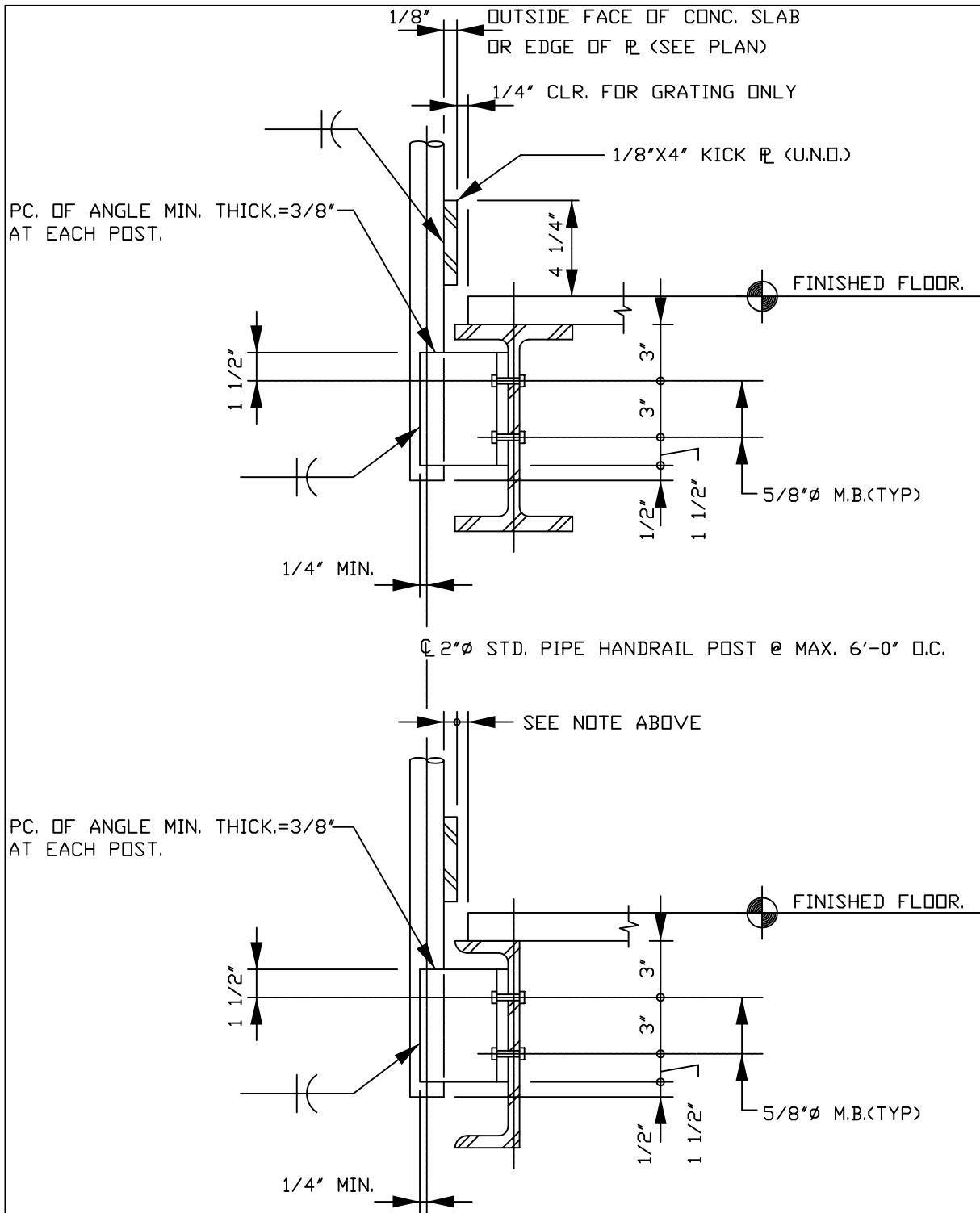
LOCKHEED MARTIN SPACE SYSTEMS		V2-862		REV.
				0
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	G.BRUFMAN	DATE
DWG TITLE: TRENCH W/CHECKERED P COVER IN CONC. FLOOR		CHECKED		
ALL FACILITIES		APPROVED		
SCALE: AS SHOWN	CAD. ID. V2-862.dwg	ER NO.		SHT. OF 1



NOTE:

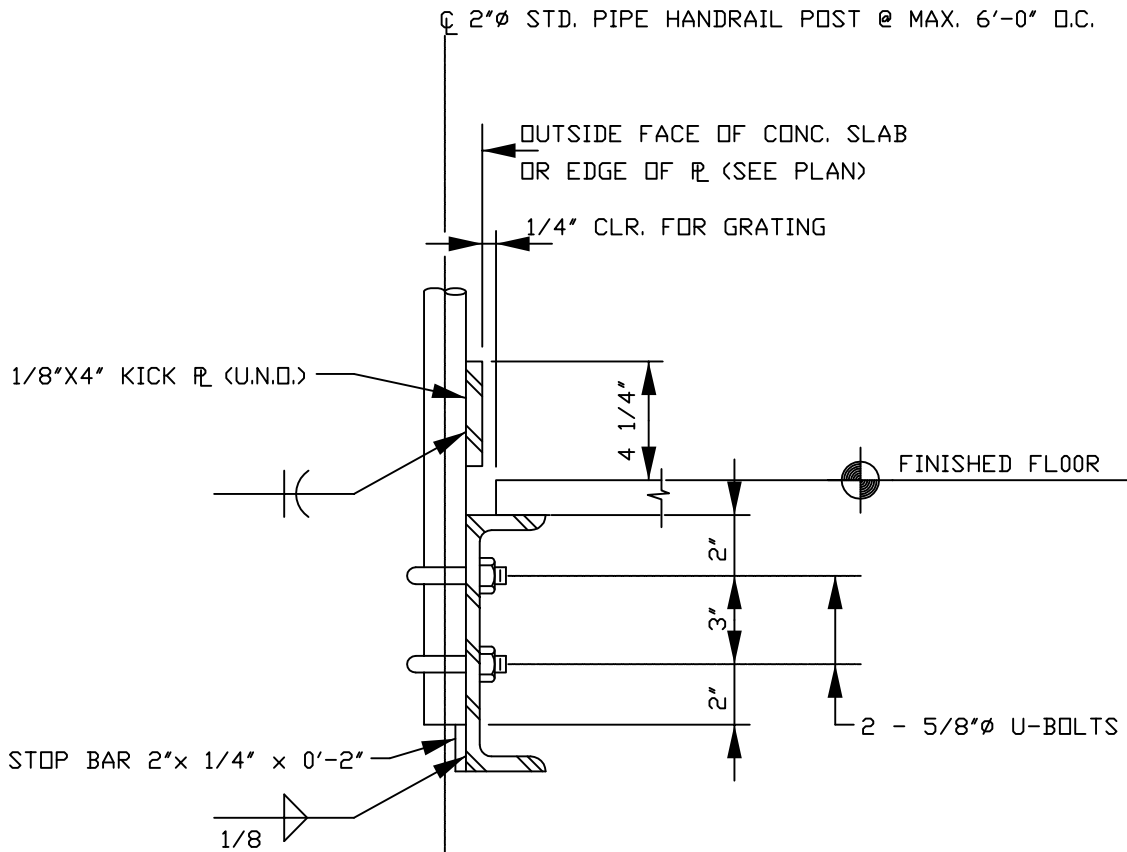
1. MAX. WHEEL LOAD SHALL NOT EXCEED 5,000 LB.
2. FOR (E)SLAB W/WIRE MESH OR #3 REBARS, STRUCT. ENGINEER SHALL BE CONSULTED.
3. CONCRETE COMPRESSIVE STRENGTH 2,500 PSI (MIN.)
4. NO SPECIAL INSPECTION REQUIRED FOR WELDING AND CONCRETE.

LOCKHEED MARTIN SPACE SYSTEMS		V2-863	REV.
			0
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN G.BRUFMAN	DATE
DWG TITLE: TRENCH W/H.D.STL.COVER IN CONC FLR.FOR TRUCK LOAD		CHECKED	02-02-93
ALL FACILITIES		APPROVED	
SCALE: AS SHOWN	CAD. ID. V2-863.dwg	ER NO.	SHT. OF 1



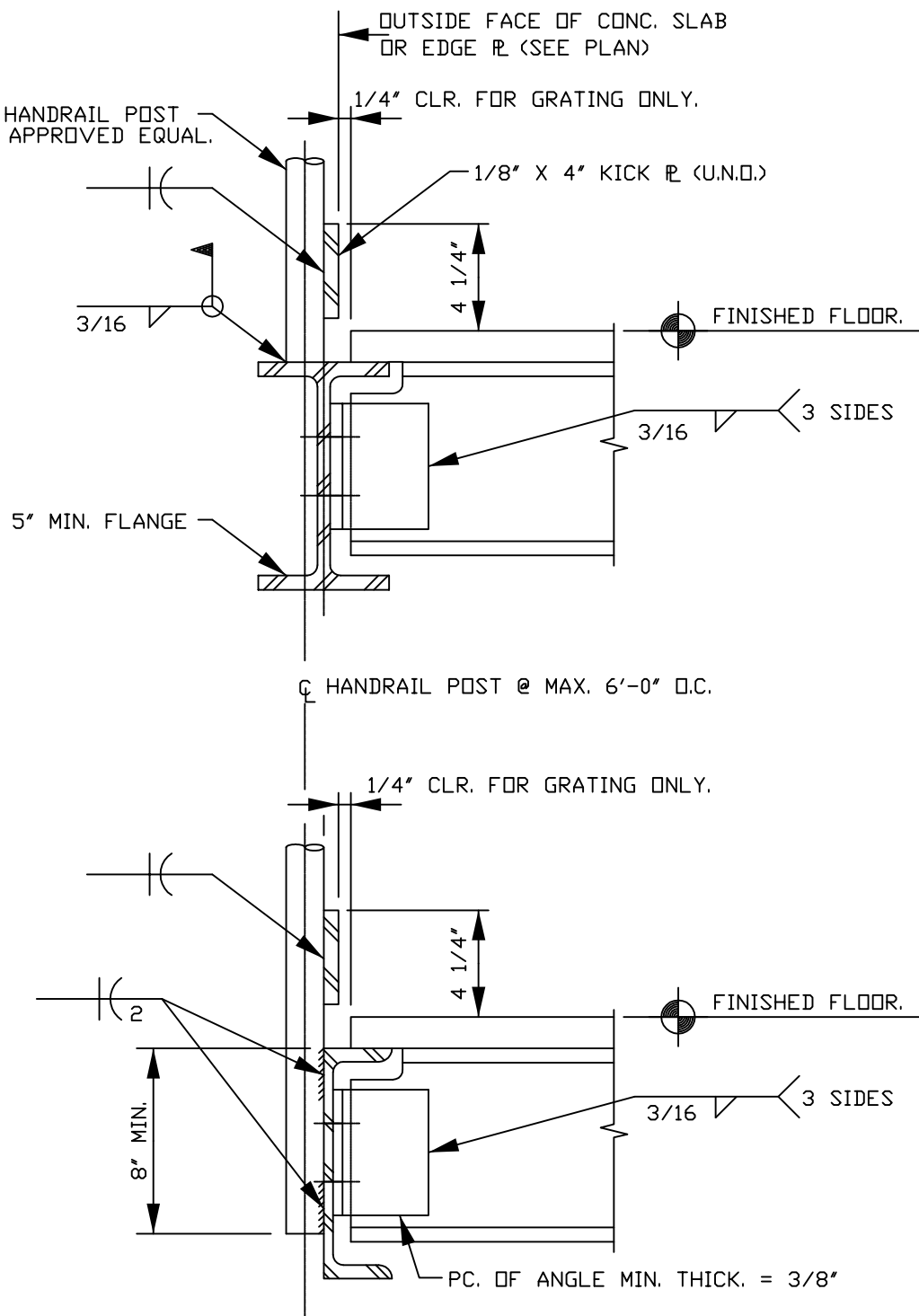
BOLTED HANDRAIL CONNECTION DETAIL

LOCKHEED MARTIN SPACE SYSTEMS		V2-864		REV.
				0
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN G.BRUFMAN		DATE
DWG TITLE: HANDRAIL CONNECTION DETAILS (BOLTED)		CHECKED		
ALL FACILITIES		APPROVED		
SCALE: NONE	CAD. ID. V2-864.dwg	ER NO.	SHT. OF	



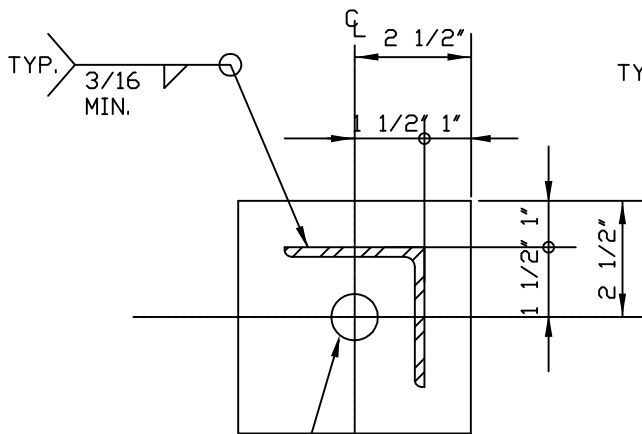
HANDRAIL CONNECTION TO BACK OF CHANNEL (BOLTED AND REMOVABLE)

LOCKHEED MARTIN SPACE SYSTEMS		V2-865	REV.
			0
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN G.BRUFMAN	DATE
DWG TITLE: HANDRAIL CONNECTION TO BACK OF CHANNEL (REMOVABLE)		CHECKED	
ALL FACILITIES		APPROVED	
SCALE: NONE	CAD. ID. V2-865.dwg	ER NO.	SHT. OF 1



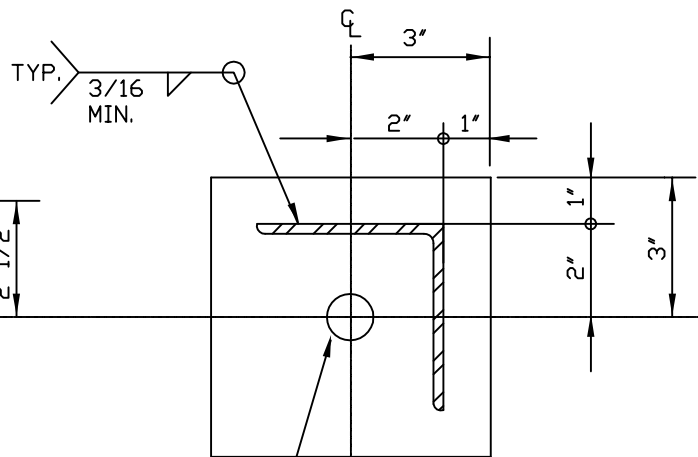
WELDED HANDRAIL CONNECTION DETAIL

LOCKHEED MARTIN SPACE SYSTEMS		V2-866		REV.
				0
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	G.BRUFMAN	DATE
DWG TITLE: HANDRAIL CONNECTION DETAILS (WELDED)		CHECKED		02-03-93
ALL FACILITIES		APPROVED		
SCALE:	NONE	CAD. ID.	V2-866.dwg	ER NO.
				SHT. OF 1



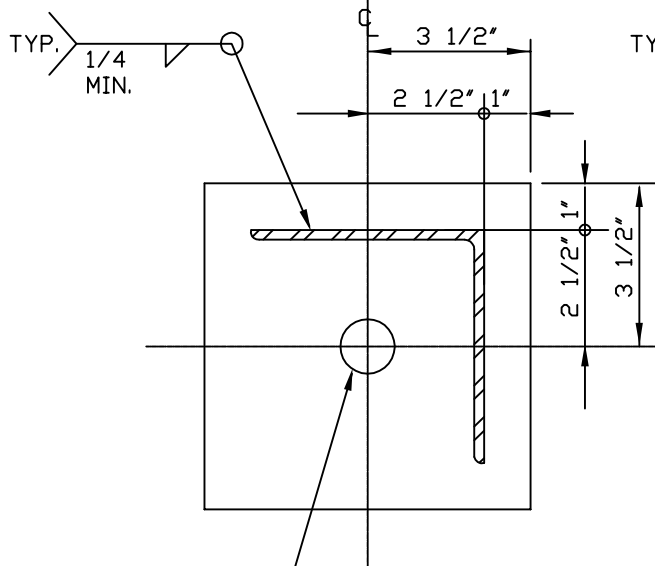
15/16"Ø HOLE

PL 5" X 1/2" X 0'-5"
FOR L 3 X 3
3/4"Ø EXP. ANCHOR (U.N.Q.)



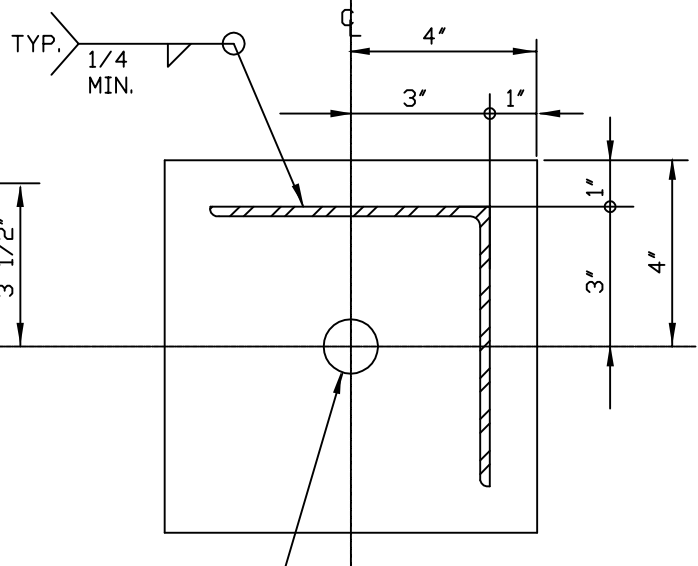
15/16"Ø HOLE

PL 6" X 1/2" X 0'-6"
FOR L 4 X 4
3/4"Ø EXP. ANCHOR (U.N.Q.)



1 1/16"Ø HOLE

PL 7" X 5/8" X 0'-7"
FOR L 5 X 5
7/8"Ø EXP. ANCHOR (U.N.Q.)



1 1/16"Ø HOLE

PL 8" X 5/8" X 0'-8"
FOR L 6 X 6
7/8"Ø EXP. ANCHOR (U.N.Q.)

LOCKHEED MARTIN
SPACE SYSTEMS



V2-868

REV.

0

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN G.BRUFMAN

02-08-93

DWG TITLE: BASE P FOR EQUAL LEG ANGLE POST

CHECKED

ALL FACILITIES:

APPROVED

SCALE: NONE

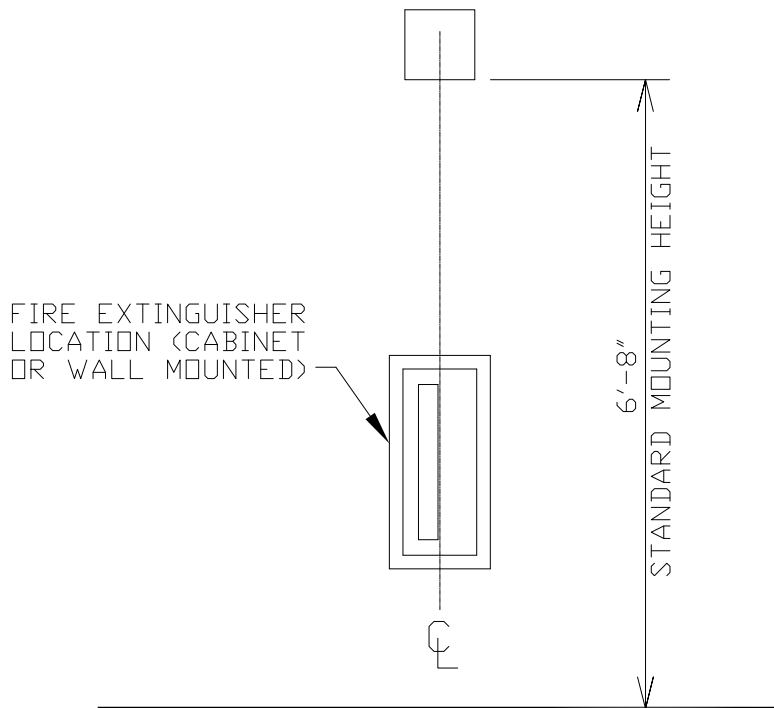
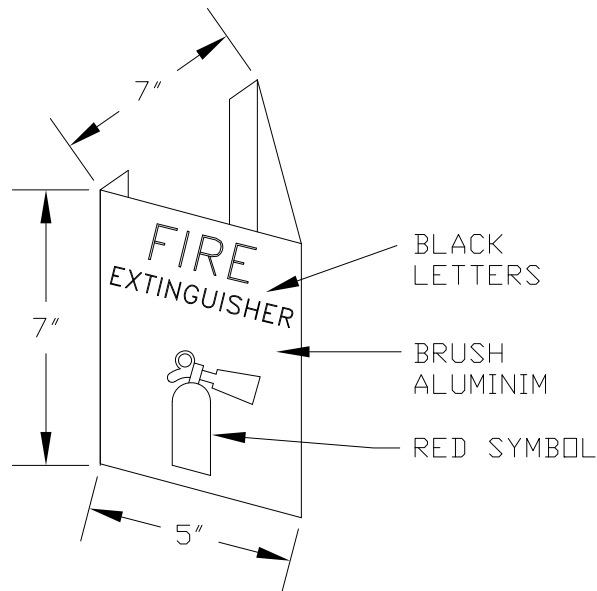
CAD. ID. V2-868.dwg

ER NO.

SHT. OF 1

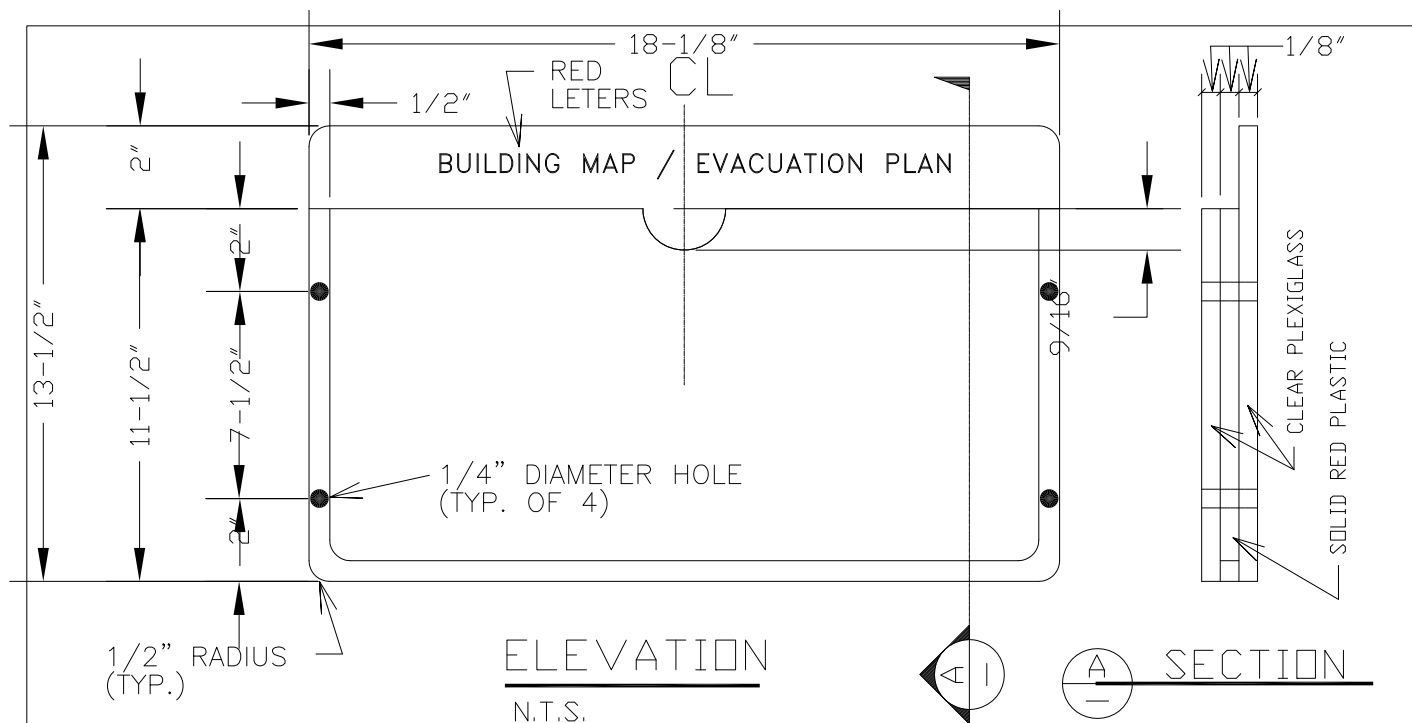
NOTE:

DETAILED SIGNAGE PLAN WILL BE PROVIDED BY COGNIZANT ENGINEER.

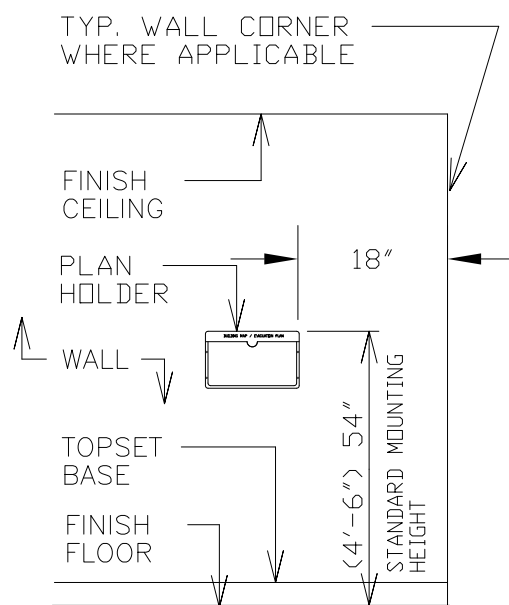


WALL ELEVATION

LOCKHEED MARTIN SPACE SYSTEMS			V2-903		REV. 3
FACILITY OPERATIONS & SERVICES			DRAWN	D.KAEINI	8/5/2014
DWG TITLE: FIRE EXISTINGUISHER PLAQUE			CHECKED	M.DOOLEY	8/11/2014
ALL FACILITIES			APPROVED	M.DOOLEY	8/11/2014
SCALE: N.T.S.	CAD. ID.	V2-903.dwg	ER NO.	SHT. OF	1 1



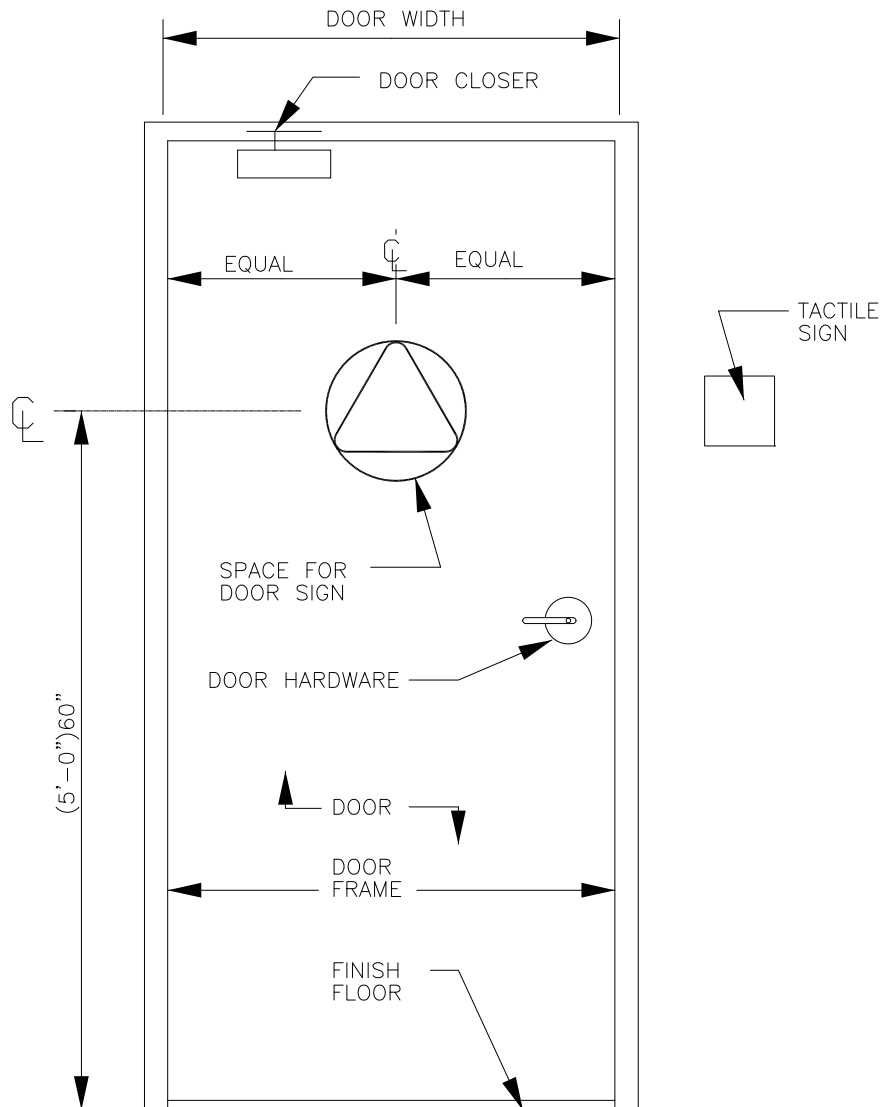
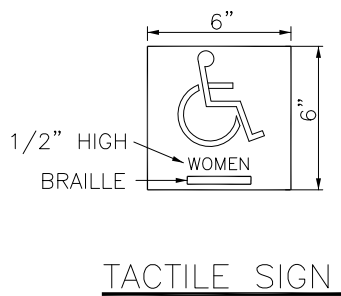
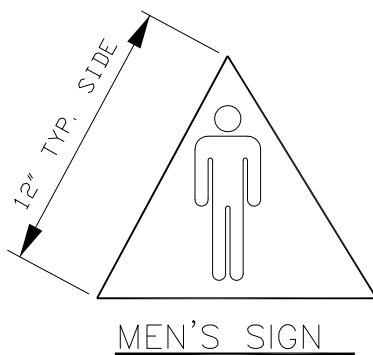
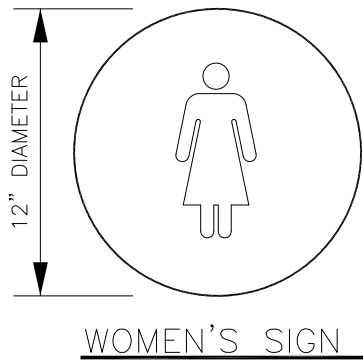
EVACUATION MAP HOLDER SHOWN IS FOR INDUSTRIAL AREAS ONLY. OFFICE AREAS SHALL USE PRODUCT SPECIFIED IN SECTION 101400



WALL ELEVATION VIEW

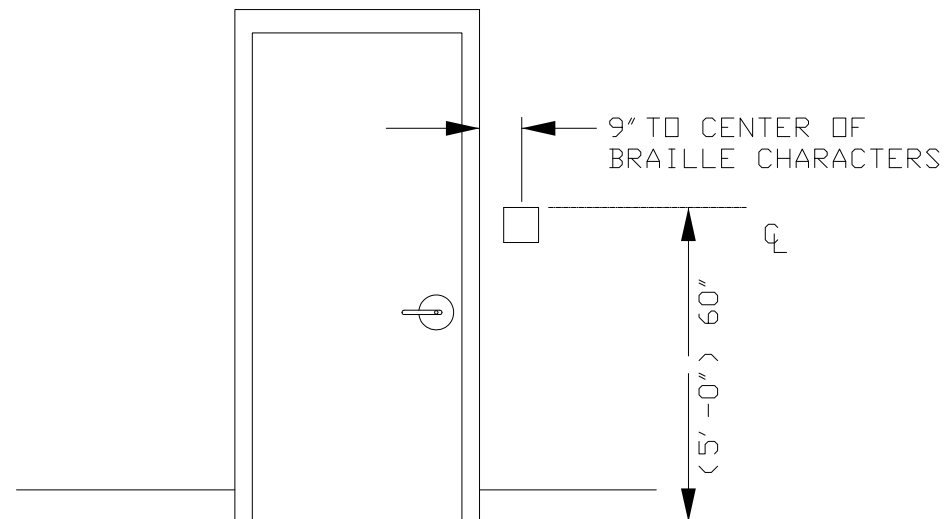
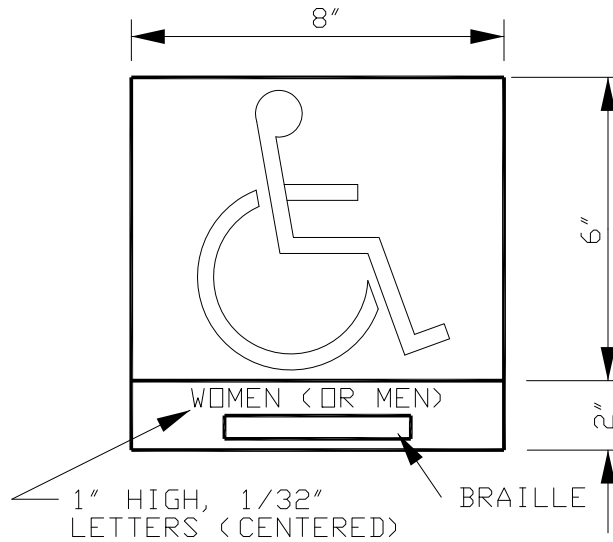
N.T.S.

LOCKHEED MARTIN SPACE SYSTEMS		V2-910		REV.
				4
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	MDOOLEY	DATE
DWG TITLE: BUILDING MAP / EVACUATION PLAN HOLDER		CHECKED		8-12-13
ALL FACILITIES		APPROVED		
SCALE:	NONE	CAD. ID.	V2-910.DWG	SHT. OF
				1



DOOR ELEVATION VIEW
N. T. S.

LOCKHEED MARTIN SPACE SYSTEMS		V2-911		REV.
				4
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	MDOOLEY	DATE
DWG TITLE: TITLE 24 RESTROOM PLAQUE		CHECKED		8-12-13
		APPROVED		
SCALE:	NONE	CAD. ID.	V2-911.dwg	SHT. OF
			ER NO.	1

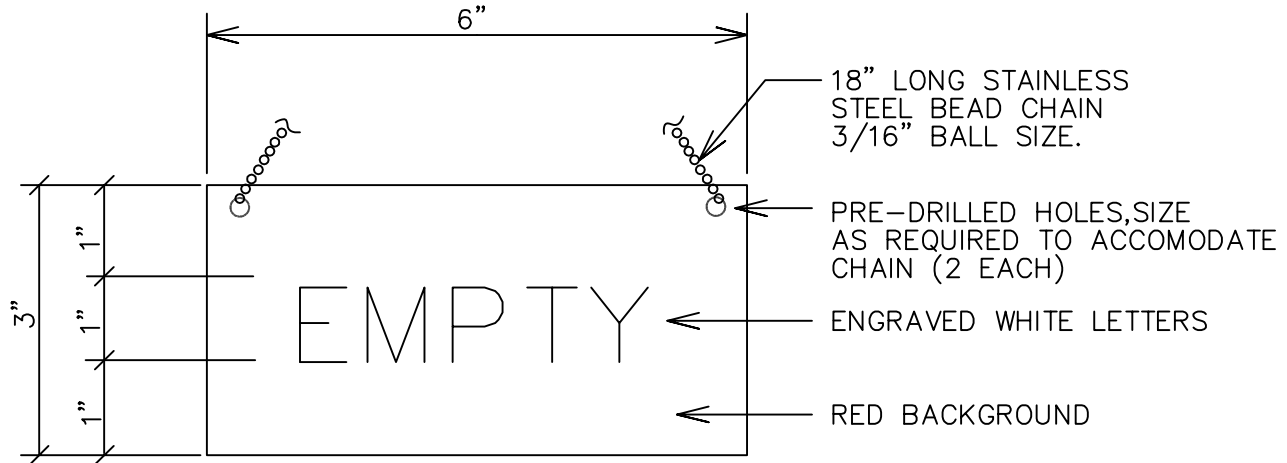


WALL ELEVATION VIEW - N. T. S.

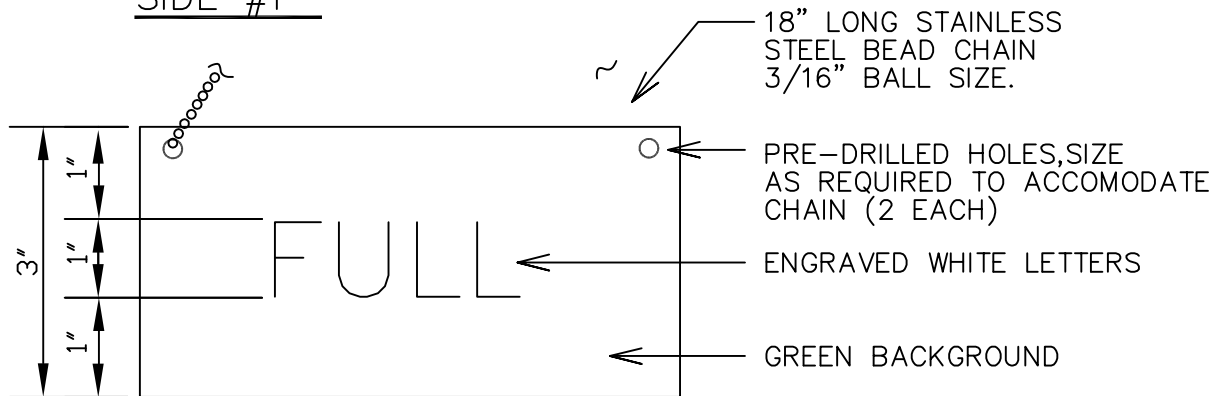
GENERAL NOTE:

LOCATE SIGN ON LATCH SIDE OF DOOR, HEIGHT @ 60" A.F.F. TO TOP
MUST BE ABLE TO APPROACH TO WITHIN 3" OF SIGNAGE WITHOUT
ENCOUNTERING PROTRUDING OBJECTS OR STANDING IN SWING OF DOOR.

LOCKHEED MARTIN SPACE SYSTEMS		V2-911A		REV.
				3
FACILITY OPERATIONS & SERVICES		DRAWN	D. KAEINI	8/5/2014
DWG TITLE: ADA RESTROOM PLAQUE		CHECKED	M. DOOLEY	8/11/2014
		APPROVED	M. DOOLEY	8/11/2014
SCALE: N.T.S.	CAD. ID. V2-911A.DWG	ER NO.		SHT. OF 1



SIDE #1



SIDE #2

PLAQUE SPECIFICATIONS:

MATERIAL: GRAVOPLY II, MATTE
VELOUR FINISH,
2 PLY 1/16"

NOTE:

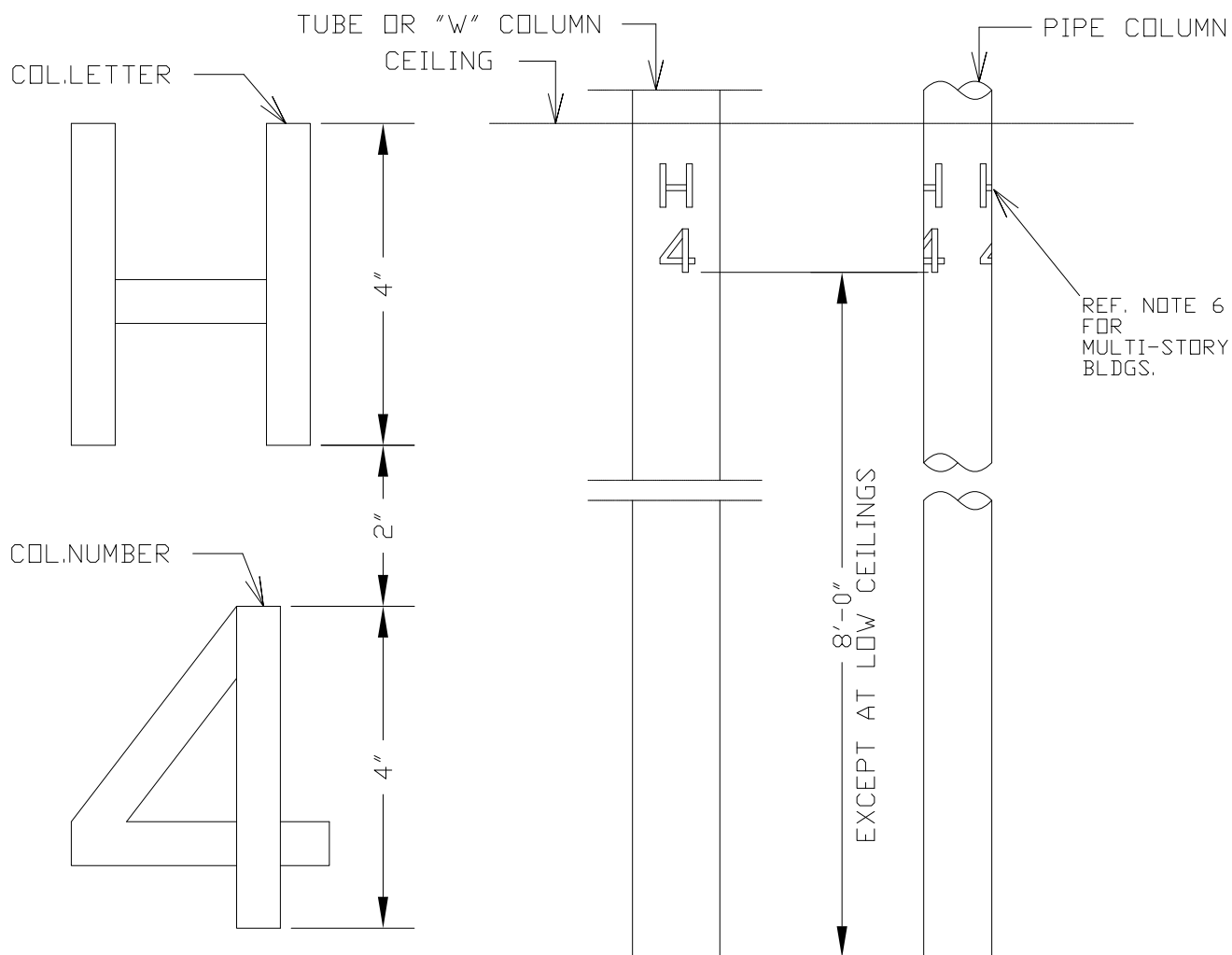
SIGN IS TWO SIDED LAMINATED PLASTIC,
COLORS AS SHOWN, W/ENGRAVED WHITE
LETTERS. USE CLEAR SILICON ADHESIVE
TO GLUE SIGNS BACK TO BACK.

SIDE #1 - SURFACE RED,
BACK WHITE, # 248-226.

SIDE #2 - SURFACE GREEN,
BACK WHITE, # 258-221.

QUANTITY REQUIRED _____

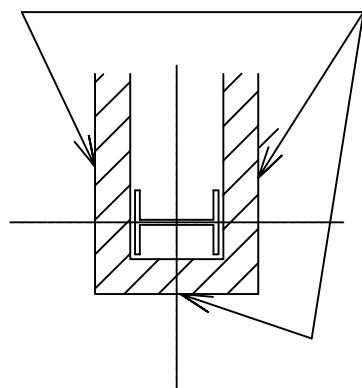
LOCKHEED MARTIN SPACE SYSTEMS		V2-914	REV. 1
			DATE 4/88
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN LARRY GEER	
DWG TITLE: SIGN FOR GAS CYLINDERS		CHECKED	
ALL FACILITIES		APPROVED	
SCALE: 1/2"=1"	CAD. ID. 2-914.dwg	ER NO.	SHT. OF 1



NOTE:

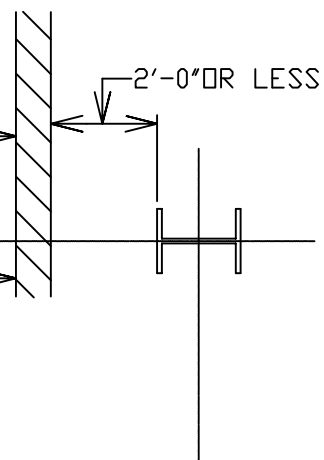
1. STENCIL (OR VINYL PRESS ON) BLACK HELVETICA STYLE LETTERS & NUMBERS ON BOTH FLANGES OF "W" COLUMNS & ON OPPOSITE SIDES ON TUBE OR ROUND COLUMNS-ALTERNATE.
2. SEE NOTES BELOW & ON DETAILS: V2-916 & V2-917, FOR SPECIAL CONDITIONS.
3. ROOF SIDE OF PARAPETS: 10" HIGH NUMBERS-USE ASPHALT BASE ALUMINUM PAINT.
4. CLEAN ROOMS: USE BLACK EPOXY ENAMEL.
5. DARK ROOMS: USE FLAT LATEX-0X-BLOOD RED.
6. ADD 2H4 TO INDICATE 2ND FLOOR, 3H4 FOR 3RD FLOOR, ETC.

LOCKHEED MARTIN SPACE SYSTEMS		V2-915	REV.
			2
FACILITY OPERATIONS & SERVICES		DRAWN D.KAEINI	DATE
DWG TITLE: ALPHA-NUMERIC COLUMN INDICATORS-1		CHECKED M.DOOLEY	8/5/2014
ALL FACILITIES		APPROVED M.DOOLEY	8/11/2014
SCALE: N.T.S.	CAD. ID. V2-915.dwg	ER NO.	SHT. OF 1



PUT COLUMN NUMBERS/LETTERS
ON FACE OF WALL AT ENCASED
COLUMN. ALSO ALONG
CORRIDORS PARTICULARLY
AT CLOSED AREAS.

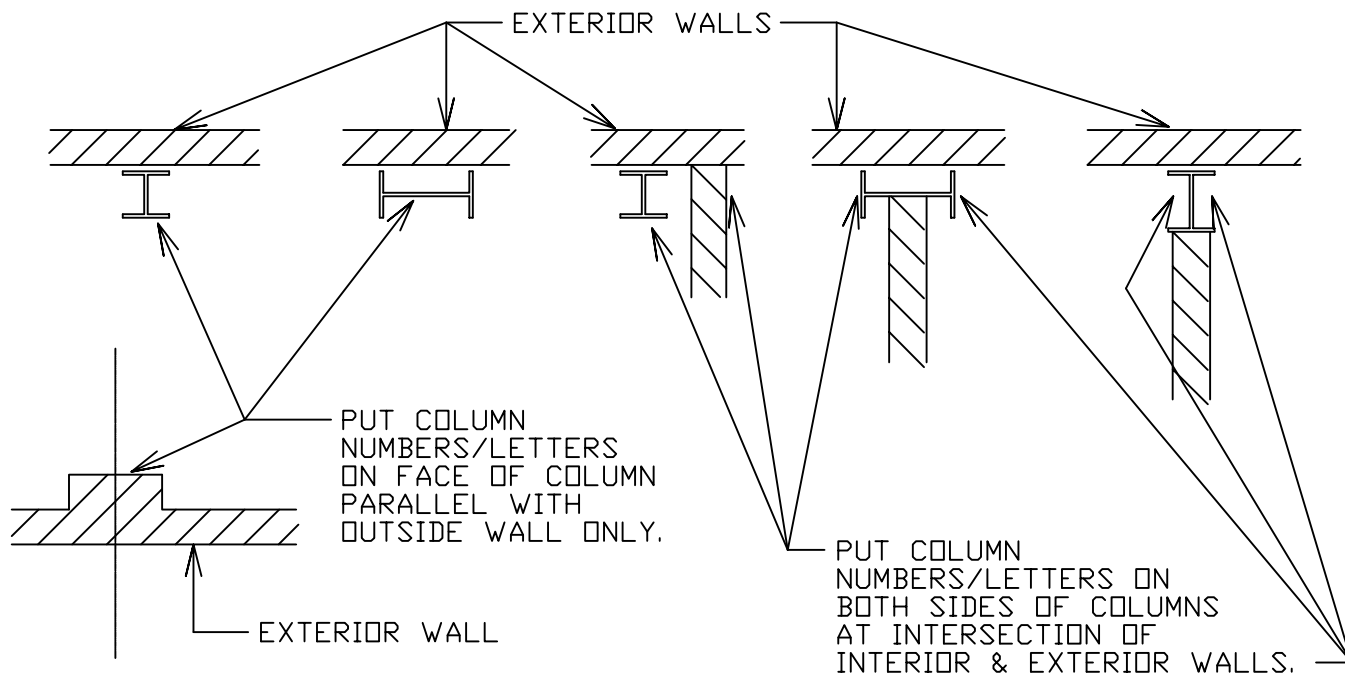
CEILING HIGH WALL



DETAIL

(PLAN VIEW)

1



DETAIL

(PLAN VIEW)

2

LOCKHEED MARTIN
SPACE SYSTEMS



V2-916

REV.

1

DATE

4-88

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN LARRY GEER

DWG TITLE: ALPHA-NUMERIC COLUMN INDICATORS-2

CHECKED

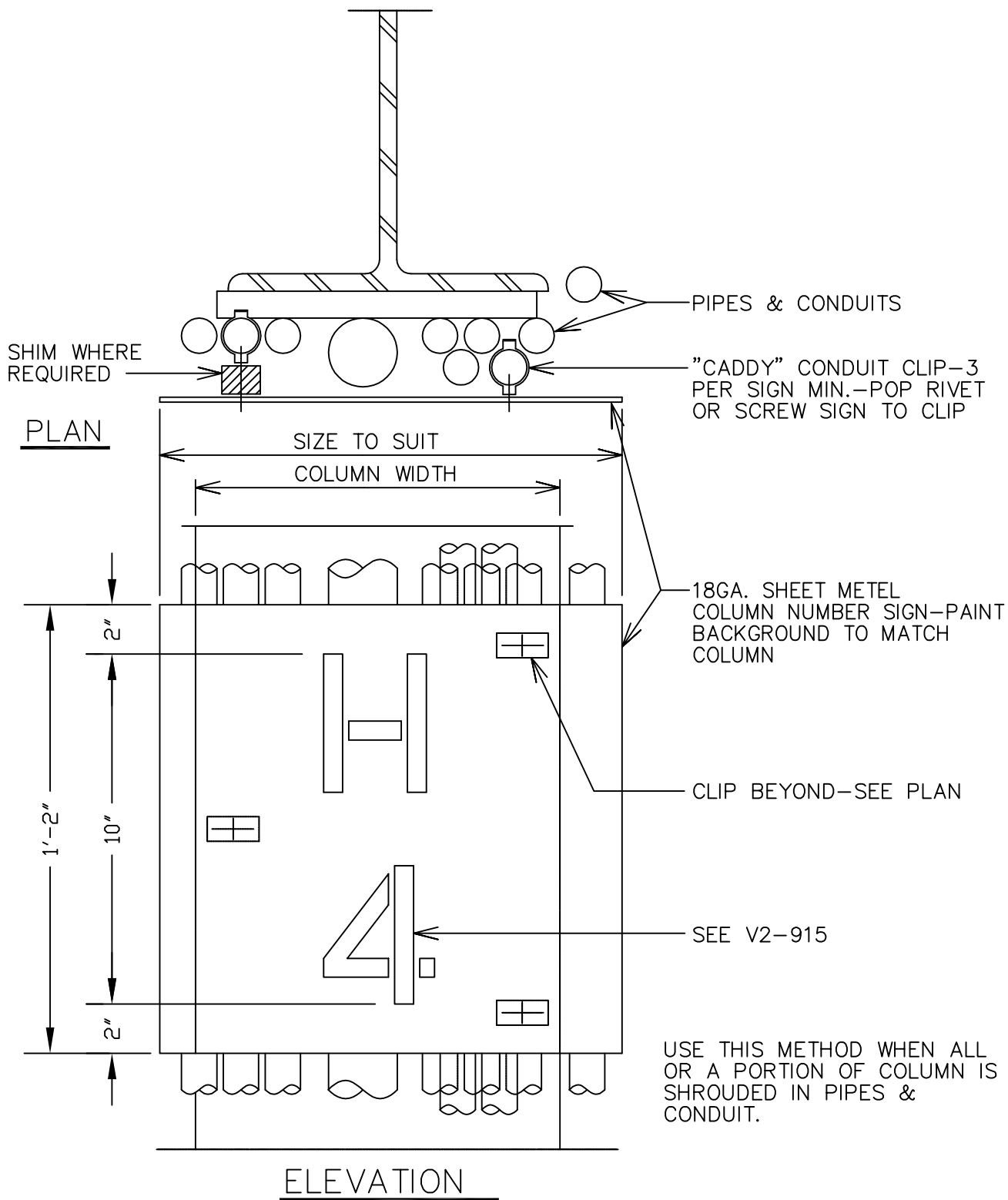
APPROVED

SCALE: N.T.S.

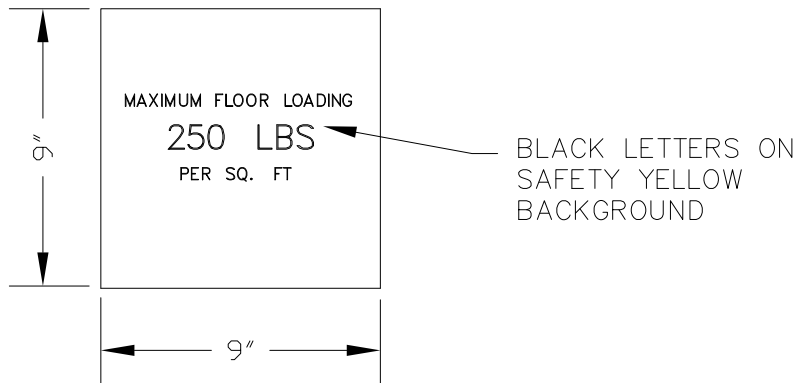
CAD. ID. V2-916.dwg

ER NO.

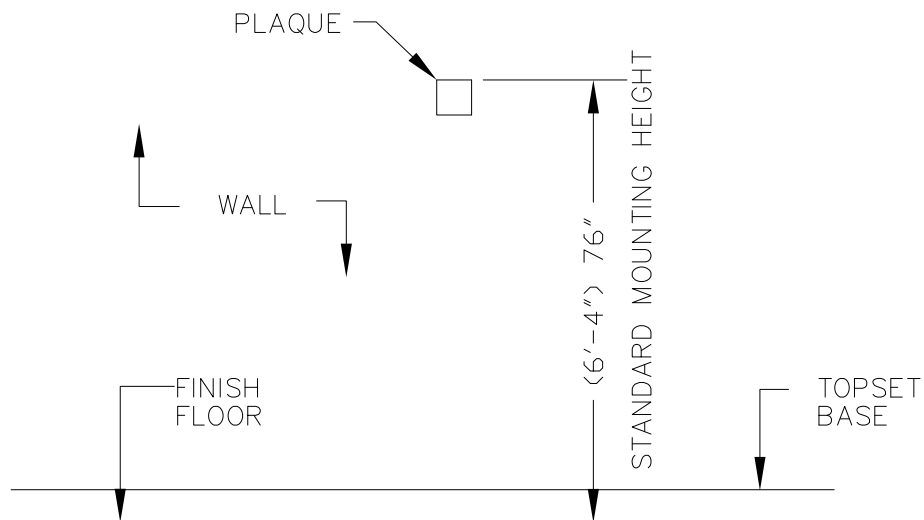
SHT. OF 1



LOCKHEED MARTIN SPACE SYSTEMS		V2-917	REV.
			1
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN LARRY GEER	DATE
DWG TITLE: ALPHA-NUMERIC COLUMN INDICATORS-3		CHECKED	4/88
ALL FACILITIES		APPROVED	
SCALE: N.T.S.	CAD. ID. V2-917.dwg	ER NO.	SHT. OF 1



NOTE: USE ABOVE CAPACITY UNLESS OTHERWISE NOTED.



WALL ELEVATION VIEW – N.T.S.

LOCKHEED MARTIN SPACE SYSTEMS		V2-926		REV.	3
				DATE	
FACILITY OPERATIONS & SERVICES		DRAWN	D.KAEINI	8/5/2014	
DWG TITLE: MAXIMUM FLOOR LOADING PLAQUE		CHECKED	M.DOOLEY	8/11/2014	
ALL FACILITIES		APPROVED	M.DOOLEY	8/11/2014	
SCALE:	NTS	CAD. ID.	V2-926.DWG	ER NO.	SHT. OF 1 1

NOTE:

DETAILED SIGNAGE PLAN WILL BE
PROVIDED BY COGNIZANT ENGINEER.

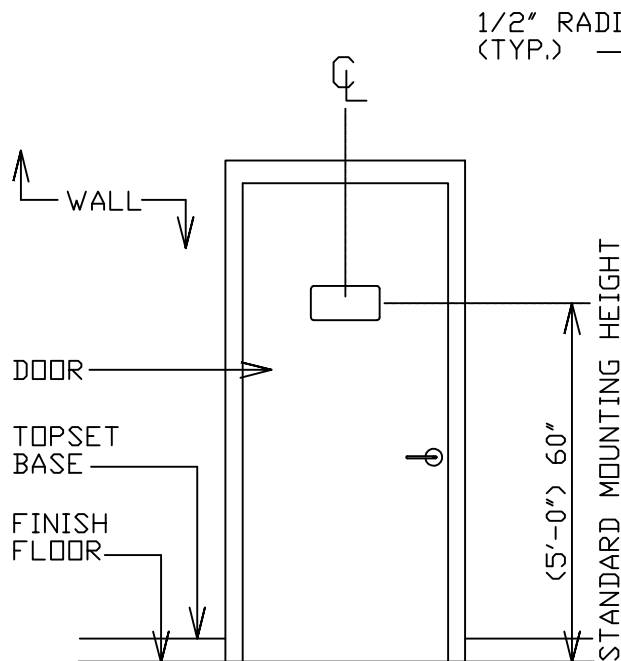
PLAQUE SPECIFICATIONS:

SIZE: 8" X 12"

MATERIAL: GRAVOPLY II, MATTE VELOUR
FINISH, SURFACE BROWN,
BACK WHITE, 2 PLY 1/16"
#240-226

PROCESS: PLASTIC ENGRAVING
COPY: WHITE HELVETICA MED.
COLOR FORMAT: BACKGROUND BROWN,
COPY WHITE

INSTALLATION: EXACT LOCATION DEPENDENT
ON FIELD CONDITIONS.
PLAQUES ARE TO BE
INSTALLED W/DOUBLE BACK
FOAM TAPE.



WALL ELEVATION VIEW - N.T.S.

RESTRICTED AREA
AUTHORIZED PERSONNEL
ONLY

___QTY. REQUIRED

NO ESCORT REQUIRED
ALLOWED BEYOND THIS
POINT WITHOUT PRIOR
SECURITY OFFICE APPROVAL

___QTY. REQUIRED

ALARMED SEALED DOOR
EMERGENCY EXIT ONLY
KEEP CLEAR

___QTY. REQUIRED

CONTAMINATION CONTROL AREA
GOWNS REQUIRED, NO SMOKING
EATING OR DRINKING ALLOWED

___QTY. REQUIRED

LOCKHEED MARTIN
SPACE SYSTEMS



V2-927

REV.

2

DATE

4-88

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN

L. GEER

DWG TITLE: VARIOUS DOOR PLAQUES

CHECKED

ALL FACILITIES

APPROVED

SCALE:

NTS

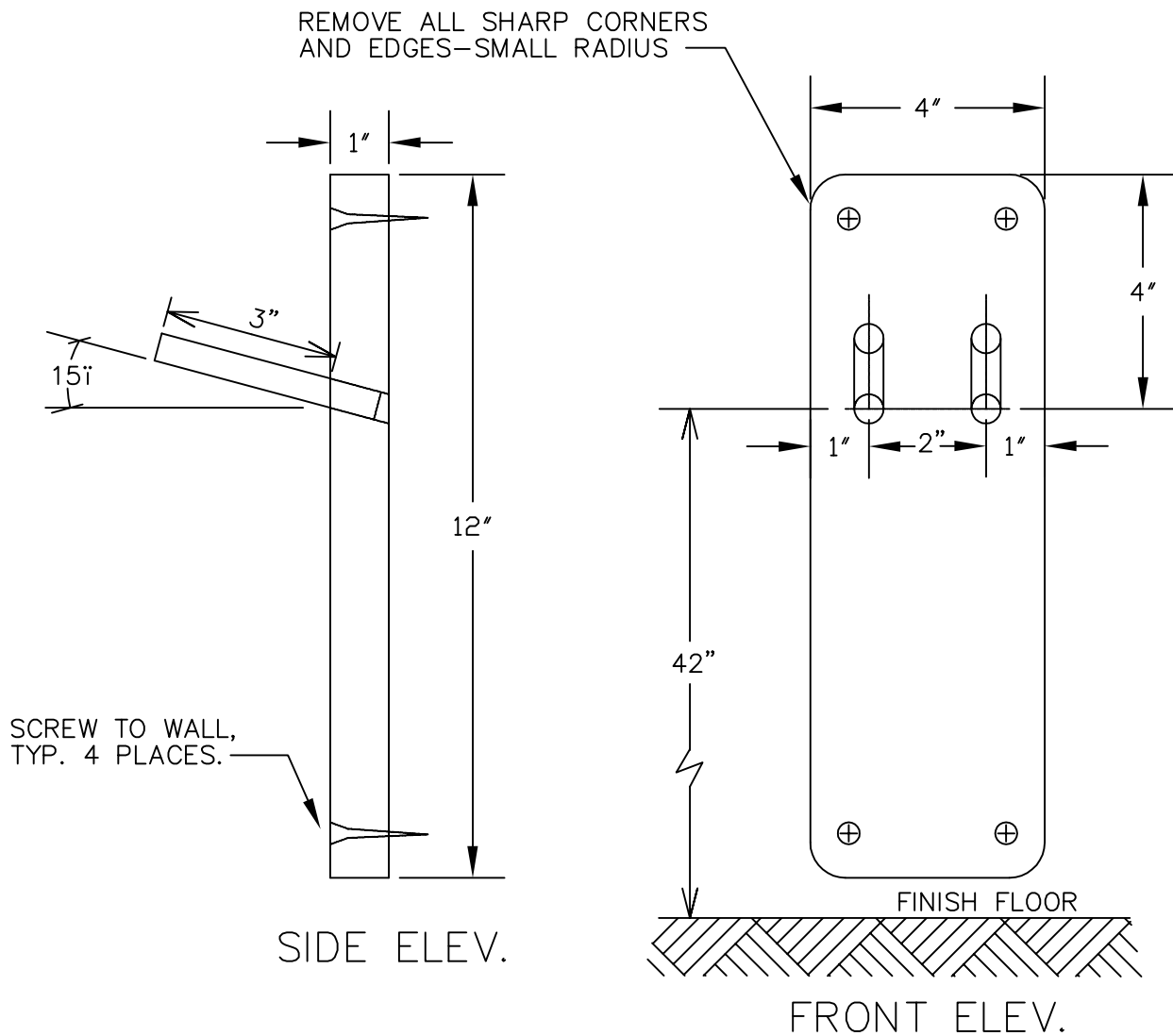
CAD. ID.

V2-927.DWG

ER NO.

SHT.
OF

1
1



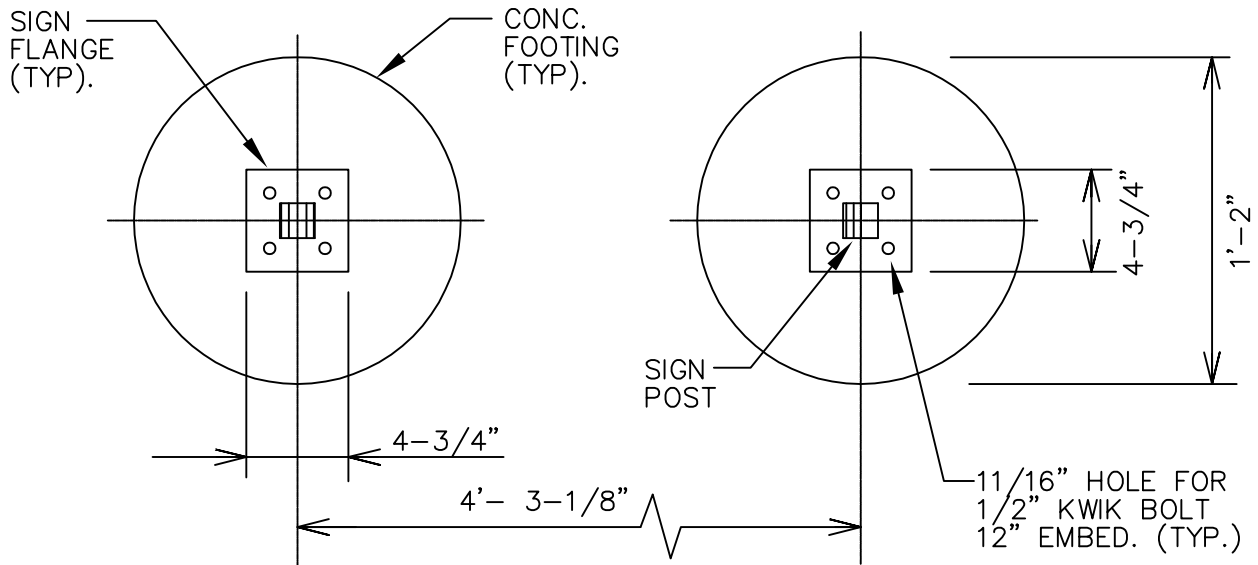
MATERIAL:

1. 1" X 4" CLEAR HARDWOOD, X 12" LONG
2. 2EA., 1/2" X 3 1/2" WOODEN DOWEL
3. CLEAR FINISH, GLOSSY

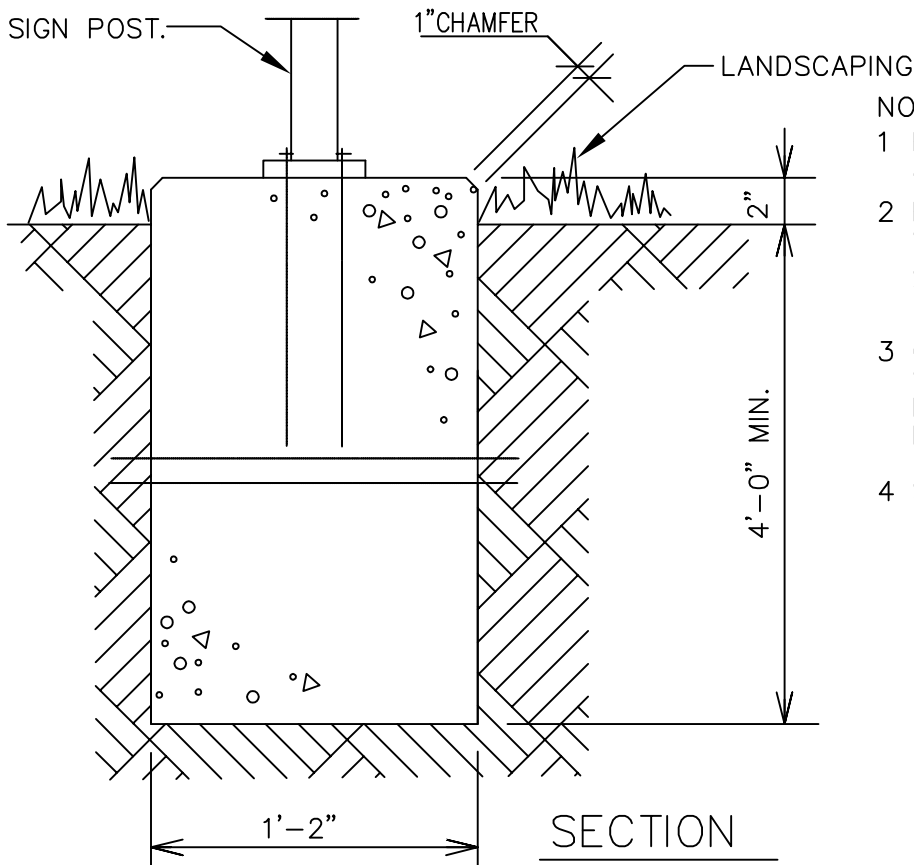
NOTE:

1. CONTRACTOR TO PROVIDE AND DELIVER ACCESS FLOOR PULLER WITH EACH HOLDER.
2. SEE ARCHITECTURAL PLAN FOR LOCATION(S).

LOCKHEED MARTIN SPACE SYSTEMS		V2-938		REV. 0
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN DAVID KAEINI		DATE 06-11-93
DWG TITLE: TOOL HOLDER, RAISED FLOOR PULLER		CHECKED		
ALL FACILITIES		APPROVED		
SCALE: N.T.S.	CAD. ID. V2-938.dwg	ER NO.	SHT. OF	



PLAN



SECTION

NOTES:

- 1 FINISH TO BE SMOOTH & FREE FROM DEFECTS.
- 2 EXISTING LANDSCAPING SHALL BE REMOVED & REPLACED AFTER WORK COMPLETED.
- 3 CONCRETE COMPRESSIVE STRENGTH 2500 PSI MIN. NO SPECIAL INSPECTION REQ'D.
- 4 SEE PLAN FOR LOCATION.

LOCKHEED MARTIN
SPACE SYSTEMS



V2-954

REV.

1

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN F. KREIS

12-7-90

DWG TITLE: POST & PANEL SIGN FOUNDATION (PALO ALTO ONLY)

CHECKED

ALL FACILITIES PALO ALTO LEASED BUILDINGS

APPROVED

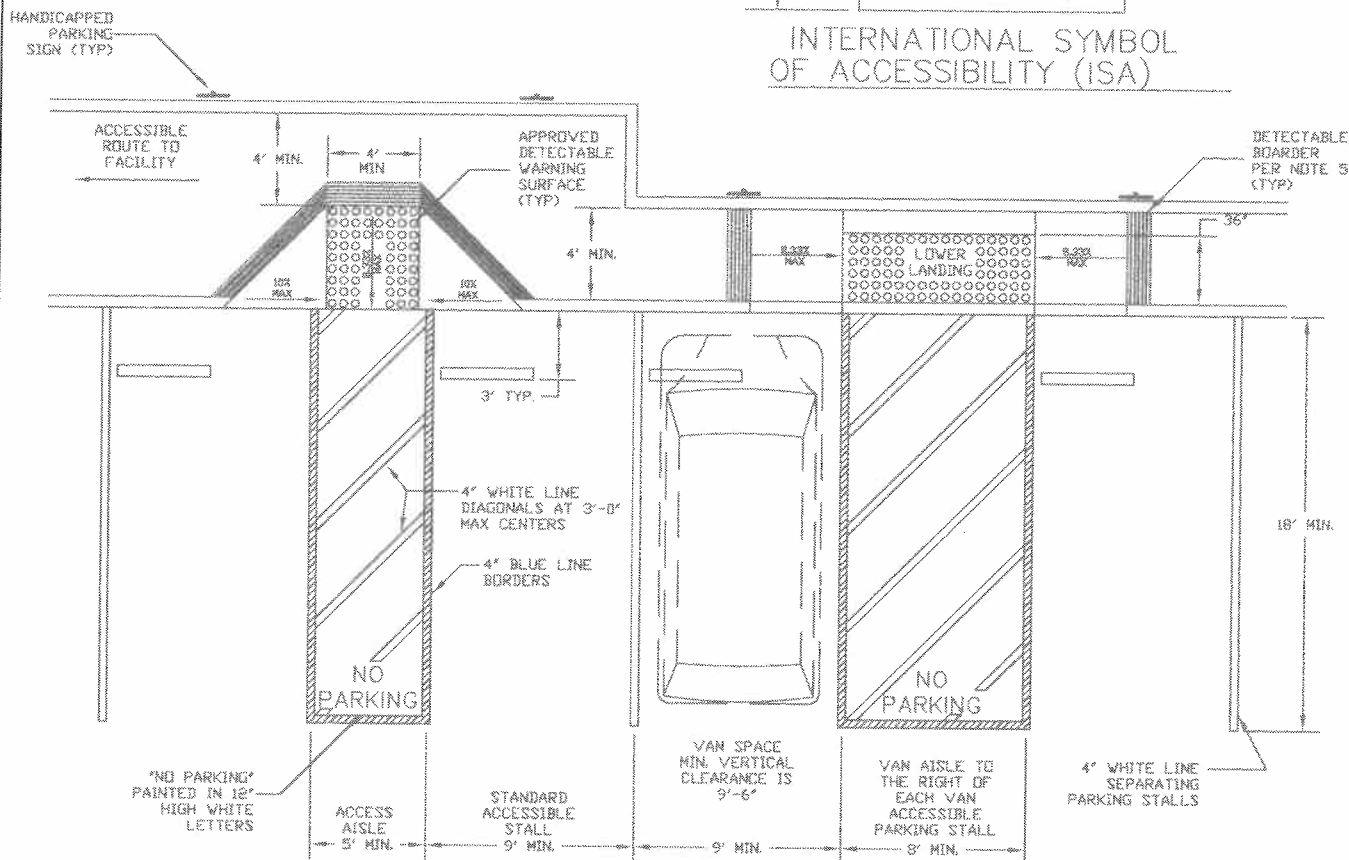
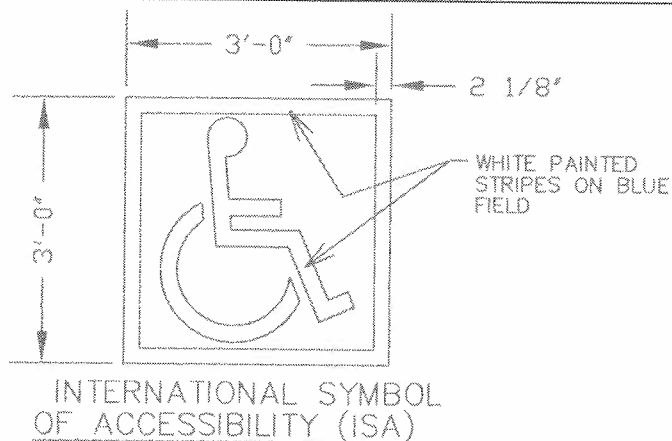
SCALE: N.T.S.

CAD. ID. V2-954.dwg

ER NO.

SHT. OF 1

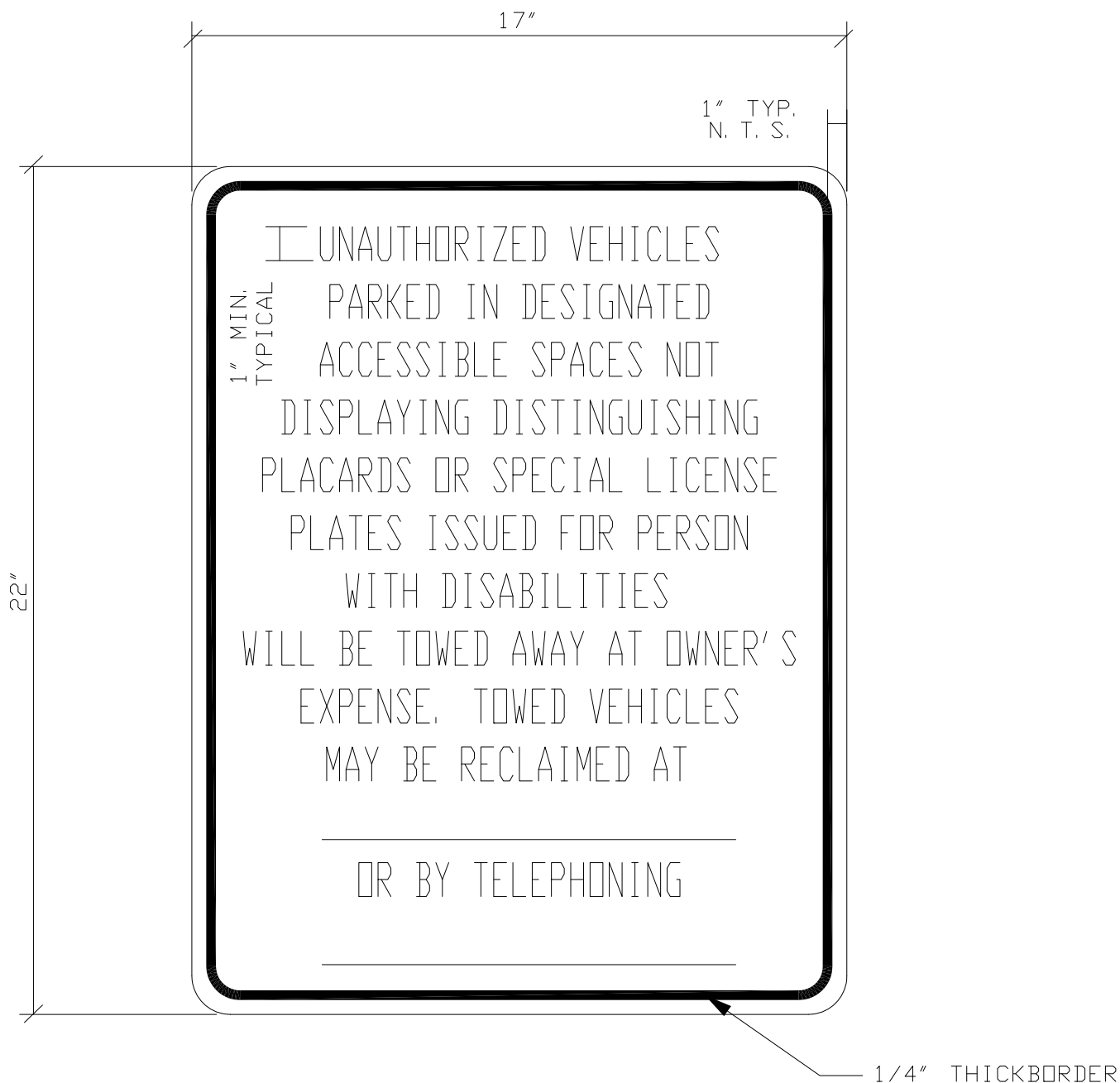
1. CURB RAMP REQUIRED WHERE ACCESS AISLE CROSS CURB.
2. MAXIMUM SLOPE 1:12. MAXIMUM RISE 0'-6".
3. 4'-0" MINIMUM WIDTH OF RAMP. 4'-0" LONG LANDING AT TOP AND BOTTOM
4. FLARED SIDE REQUIRED WHERE WALK CROSSES RAMP. 1:10 MAX SLOPE.
5. RAMPS SHALL HAVE A 12" WIDE BORDER WITH 1/4" GROOVES AT 3/4" O.C.
6. RAMP MAY NOT PROTRUDE INTO ACCESS AISLE.
7. DETECTABLE WARNING SURFACE (TRUNCATED DOME) PER PLAN SECTION 32-17-26 TACTILE WARNING SURFACE, SHALL BE EMBEDDED IN THE CONCRETE AT LOCATIONS WHERE NEW CONCRETE IS PLACED. SURFACE APPLIED TRUNCATED DOME MATS, WITH TAPERED EDGES, MAY BE USED WHERE NO CONCRETE IS PLACED.
8. TRANSITION FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES (NO 0.5" LIP).



1. BUMPER BLOCKS OR BARRIERS ARE REQUIRED TO PREVENT ENCRoACHMENT OF CARS OVER WALKWAYS. BUMPER BLOCK OR CURBS WILL BE PAINTED BLUE.
2. WHEEL CHAIR USERS MUST NOT BE REQUIRED TO GO BEHIND PARKED CARS OTHER THAN THEIR OWN.
3. SLOPES OF THE PARKING SURFACE SHALL NOT EXCEED 1/20 IN ANY DIRECTION.

1. DISABLED PARKING SIGNAGE SHALL COMPLY WITH CONSTRUCTION SPECIFICATION 10 14 26 POST AND PANEL SIGNAGE.
2. ACCESSIBLE PARKING SIGN SHALL MEET APPLICABLE CODES (70 SQ. INCH SIGN, WHITE ISA ON BLUE BACKGROUND)
2. A SIGN STATING "MINIMUM FINE \$250" (WHITE LETTERS ON A BLUE BACKGROUND) WILL BE PLACED BELOW ACCESSIBLE PARKING SIGN
3. AT VAN ACCESSIBLE SPACES, A SIGN READING "VAN ACCESSIBLE" SHALL BE PLACED BELOW THE MINIMUM FINE SIGN (WHITE LETTERS ON A BLUE BACKGROUND).
4. A TOW SIGN (WHITE LETTERS ON A BLUE BACKGROUND, AND MEETING CBC REQUIREMENTS) SHALL BE POSTED, IN A CONSPICUOUS PLACE, AT EACH ENTRANCE TO OFF-STREET PARKING FACILITIES, OR IMMEDIATELY ADJACENT TO AND VISABLE FROM EACH STALL OR SPACE.
5. 80 INCHES TO BOTTOM OF SIGNS ON POST OR 60 INCHES TO BOTTOM OF SIGN IF ON WALL OR ON POST IN LANDSCAPED AREA

SHR.
OF

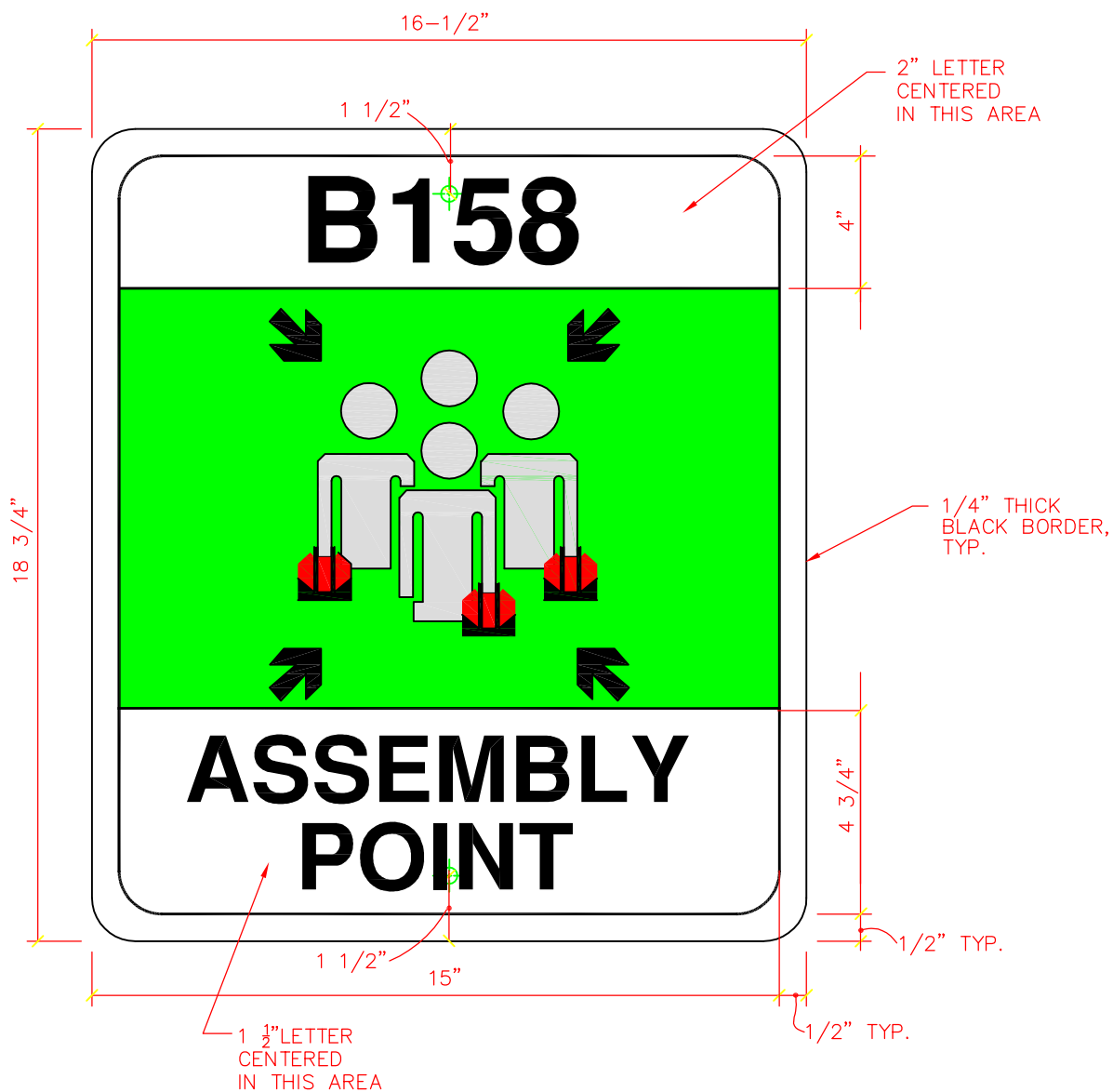


NOTES:


1. COPY SHALL BE BLACK HELVETICA MEDIUM ON WHITE BACKGROUND.
2. SIGN SHALL BE 0.050 INCH THICK ALUMINUM WITH BAKED ENAMEL FINISH AND COPY, FINISHED BOTH SIDES.

LOCKHEED MARTIN SPACE SYSTEMS		V2-955A		REV. 1
FACILITY OPERATIONS & SERVICES		DRAWN D.KAEINI	8/5/2014	
DWG TITLE: HANDICAPPED PARKING TOWAWAY SIGN		CHECKED M.DOOLEY	8/11/2014	
		APPROVED M.DOOLEY	8/11/2014	
SCALE: 1/4"=1'-0"	CAD. ID. V2-955A.DWG	ER NO.	SHT. OF 1	1

SIGN CONSTRUCTION: 0.080" ALUMINUM SCOTCHCAL OR EQUAL WHITE BACKGROUND, LETTERS AND GRAPHICS WITH 1" RADIUS CORNERS. MOUNTED ON 2"X 2"X 3/16" STEEL POST PER ENGINEERING CONSTRUCTION DETAILS. BOTTOM OF SIGN SHALL BE 7'- 0" ABOVE EXISTING FINISH GRADE.

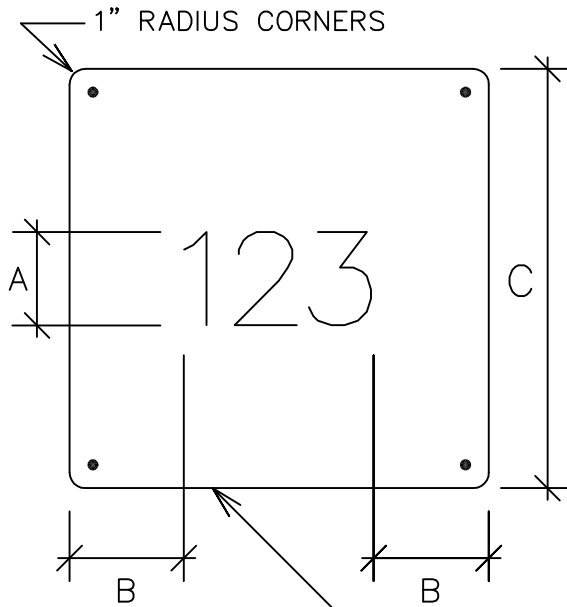


A. LETTERS AND NUMBERS SHALL BE BLACK HELVETICA MEDIUM ON WHITE BACKGROUND. CENTER ALL LINES HORIZONTALLY.

		V2-956		REV. 3
				DATE
FACILITY OPERATIONS & SERVICES		DRAWN DAVE KAEINI		5/2012
DWG TITLE: EVACUATION ASSEMBLY POINT SIGN		CHECKED		
ALL FACILITIES		APPROVED		
SCALE: 1/4 SIZE	CAD. ID. V2-956.dwg	ER NO.	SHT. OF	

MASTER EXTERIOR SIGN PLAN

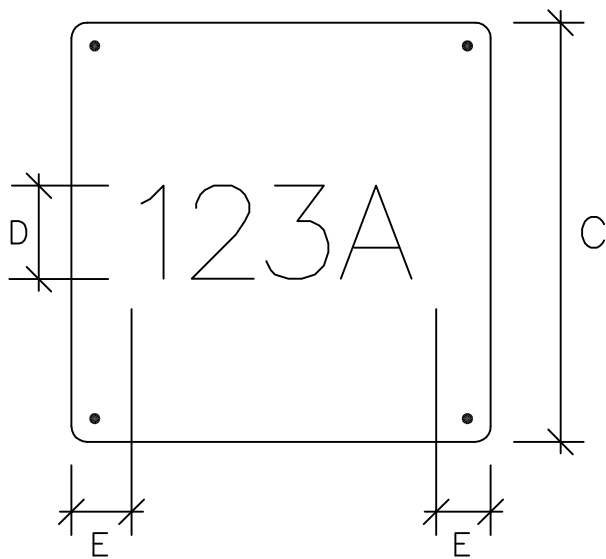
SIGN TYPE: BUILDING NUMBER LOGO



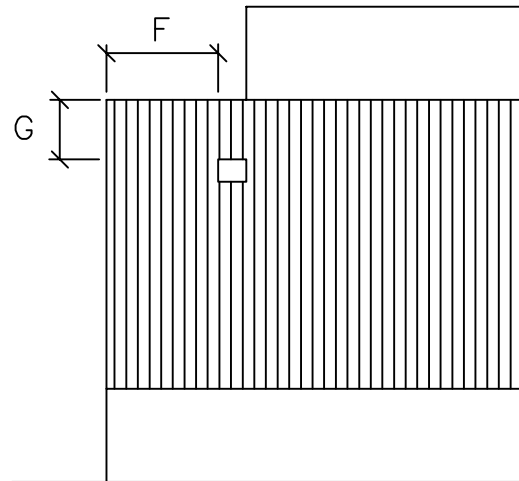
TYPE A

BUILDING HEIGHT	A	B	C	D	E	F	G
OVER 80'	18"	5 $\frac{1}{2}$ "	54"	16"	4 $\frac{1}{2}$ "	14'	7'
50'-79'	16"	4 $\frac{3}{4}$ "	48"	14"	4"	12'	6'
30'-49'	12"	3 $\frac{1}{2}$ "	36"	10"	3"	10'	5'
15'-29'	10"	3"	30"	8"	2 $\frac{1}{2}$ "	8'	4'
UNDER 15'	8"	2 $\frac{1}{2}$ "	24"	6"	2"	6'	3'

18 GAUGE GALV. SHEET METAL
PRIME BOTH SIDES
PRIOR TO PAINTING.



TYPE B



SIGN LOCATION

GRAPHICS TYPE: OPTIMA MEDIUM
BACKGROUND COLOR: Q13-50D PATRICIAN BLUE
GRAPHICS COLOR: OW-2 BLANCO (KELLY MOORE)

LOCKHEED MARTIN
SPACE SYSTEMS



V2-958

REV.

2

DATE

5/07

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN LARRY GEER

DWG TITLE: BUILDING NUMBER LOGO - EXTERIOR SIGN

CHECKED

ALL FACILITIES

APPROVED

SCALE: N.T.S.

CAD. ID. V2-958.dwg

ER NO.

SHT. OF 1


SPECIFICATIONS

THE FOLLOWING ITEMS SHALL BE IMPLEMENTED PRIOR TO, DURING, AND AFTER THE EXECUTION OF THE WORK:

1. EXISTING FLOOR AND WALL THICKNESSES SHALL BE VERIFIED TO DETERMINE THE FEASIBILITY OF ANCHOR EMBEDMENT OR PENETRATION NOTED THEREON.
2. LOCATION OF UTILITIES AND ELECTRICAL ITEMS INSIDE FLOORS AND WALLS NEAR ANCHORING POINTS SHALL BE VERIFIED TO DETERMINE POSSIBLE INTERFERENCE OR DAMAGE FROM ANCHOR INSTALLATION.
3. THE ANCHOR BOLT SIZES INDICATED ON THE DRAWINGS ARE BASED ON NORMAL WEIGHT CONCRETE AND DO NOT APPLY TO LIGHT WEIGHT CONCRETE. CONSULT THE STRUCTURAL ENGINEER IF THE FLOOR IS LIGHT WEIGHT CONCRETE.
4. EXISTING STUDS LOCATION SHALL BE VERIFIED TO DETERMINE THE FEASIBILITY OF ANCHOR INSTALLATION WHICH SHALL BE MADE ONLY THROUGH STUDS CENTERLINE.
5. DRILLED HOLES TO RECEIVE ANCHORS SHALL BE PROVIDED WITH DEPTH TOLERANCE TO ALLOW THESE TO BE DRIVEN IN SURFACE-FLUSH WHEN REMOVAL OF THIS UNIT OCCURS.
6. ALL ANCHOR/CONCRETE WALL OR FLOOR CONNECTIONS SHALL BE MADE WITH HILTI-KWIK BOLTS OR AS INDICATED ON THE DRAWINGS OR APPROVED EQUIVALENT.
7. STRUCTURAL STEEL BRACING SHALL BE IN ACCORDANCE WITH ASTM SPECIFICATIIONS.
8. ALL NEW COMPLETED WORK SHALL BE PAINTED WITH ONE PRIME AND TWO FINISH ENAMEL PAINT COATS TO MATCH THE ANCHORED UNIT.
9. MAXIMUM LOAD CAPACITY, ACCORDING TO THIS MANUAL, SHALL BE LABELED ON EACH UNIT (CABINET, SHELF, RACK).

ABBREVIATIONS

CX	DETAIL SYMBOL FOR CABINETS (X=NUMBER)
CRX	DETAIL SYMBOL FOR CANTILEVER RACKS (X=NUMBER)
RX	DETAIL SYMBOL FOR STORAGE RACKS (X=NUMBER)
SX	DETAIL SYMBOL FOR SHELVES (X=NUMBER)

 LOCKHEED MARTIN SPACE SYSTEMS		V2-1000		REV.
				0
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	D.KAEINI	DATE
DWG TITLE: SPECIFICATION FOR ANCHORING SHELVES AND RACKS		CHECKED		
		APPROVED		
SCALE:	NONE	CAD. ID.	V2-1000.DWG	SHT. OF
			ER NO.	1 1

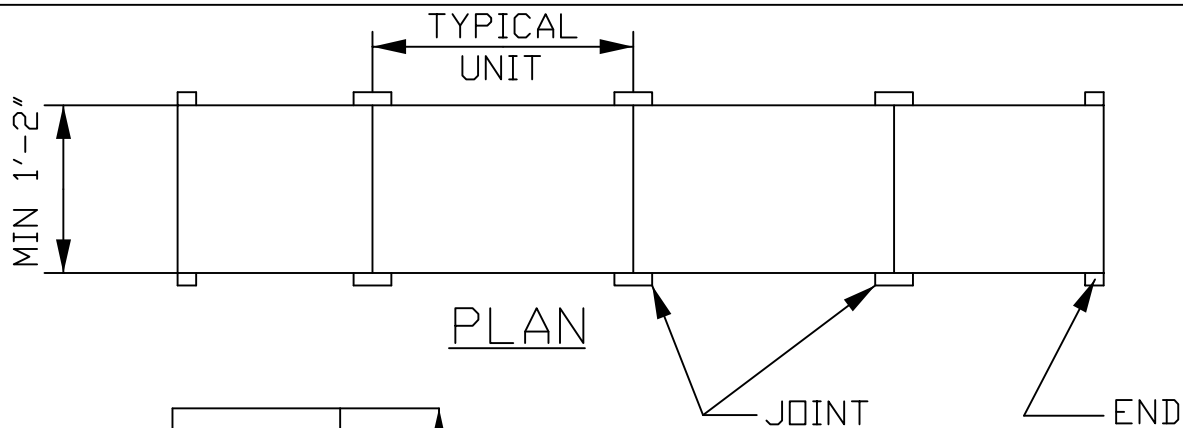


TABLE FOR BASE ANCHOR DETAIL

CABINET TYPE	DETAIL PLAN LOCATION	CABINET LOCATION	
		GROUND FL	MEZZ/UPPER
WITHOUT BASE	END	C3A/1011 C5A/1013	C4/1012 C5A/1013
	JOINT	C3B/1011 C5B/1013	C4/1012 C5B/1013
WITH BASE	END	C11/1019 C13/1021	C12/1020 C13/1021
	JOINT	C11A/1019 C13A/1021	C12/1020 C13A/1021

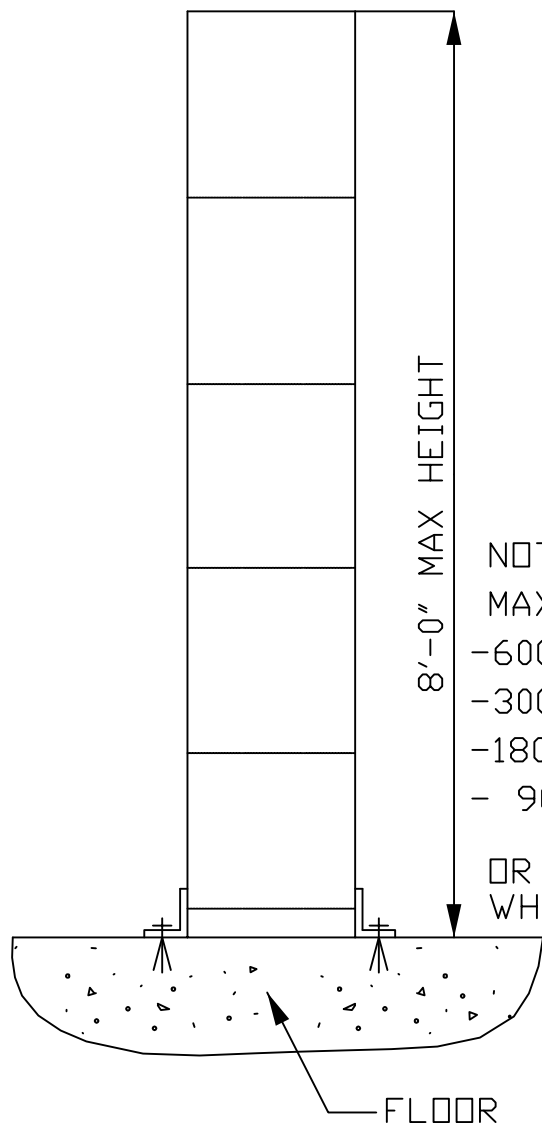
NOTE:

MAX. CABINET CAPACITY EQUALS:

- 600# FOR GROUND FLOOR
- 300# FOR GR. FLOOR W/HAZARDOUS MATERIAL
- 180# FOR MEZZANINE FLOOR
- 90# FOR MEZZ. FLOOR W/HAZARD. MATERIAL

OR MANUFACTURER LOAD SPECIFICATION
WHICHEVER IS LESS.

SEE V2-1000 FOR SPECIFICATIONS



ELEVATION

LOCKHEED MARTIN
SPACE SYSTEMS



V2-1001

REV.

0

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN JOHN WILLIAMS

10-11-90

DWG TITLE: CABINETS - SINGLE ROW

CHECKED S. TAUR

06-11-91

ALL FACILITIES

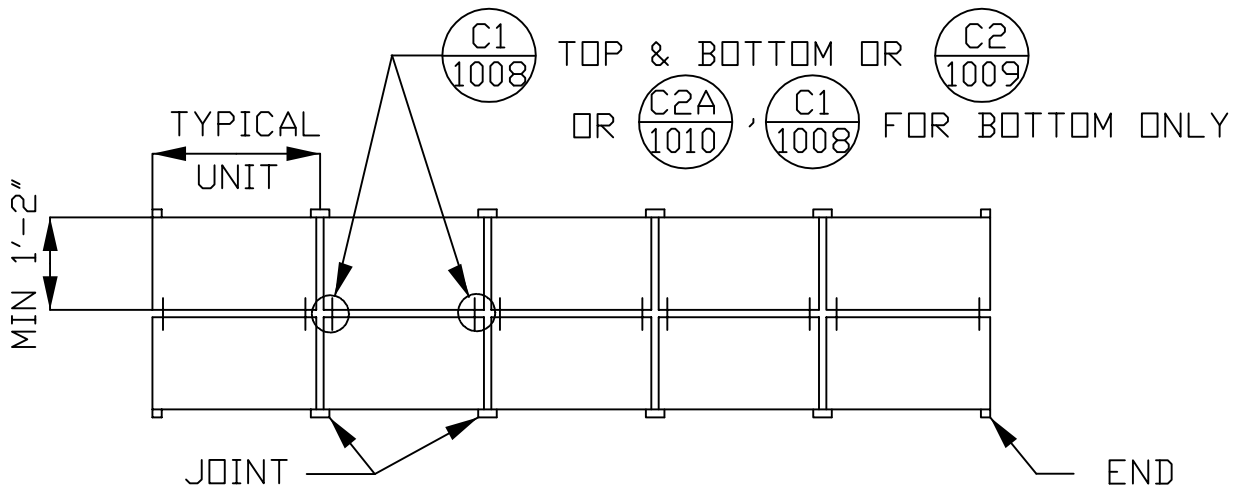
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SCALE: NONE

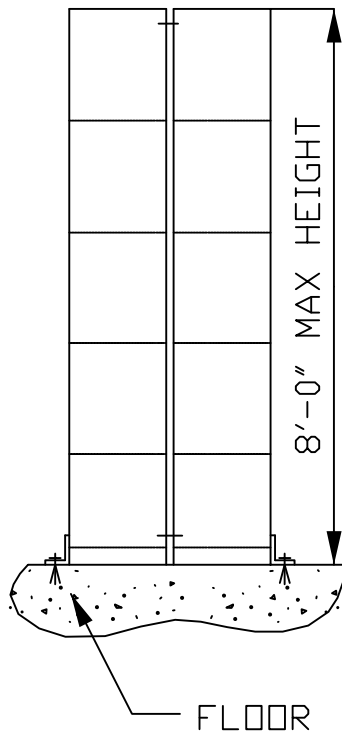
CAD. ID. V2-1001.dwg

ER NO.

SHT. OF 1



PLAN



ELEVATION

TABLE FOR BASE ANCHOR DETAIL

CABINET TYPE	DETAIL PLAN LOCATION	CABINET LOCATION	
		GROUND FL	MEZZ/UPPER
WITHOUT BASE	END	C3A/1011 C5A/1013	C4/1012 C5A/1013
	JOINT	C3B/1011 C5B/1013	C4/1012 C5B/1013
WITH BASE	END	C11/1019 C13/1021	C12/1020 C13/1021
	JOINT	C11A/1019 C13A/1021	C12/1020 C13A/1021

NOTE:

MAX. CABINET CAPACITY EQUALS:

- 600# FOR GROUND FLOOR

- 180# FOR MEZZANINE FLOOR

OR MANUFACTURER LOAD SPECIFICATION
WHICHEVER IS LESS.

SEE V2-1000 FOR SPECIFICATIONS.

LOCKHEED MARTIN
SPACE SYSTEMS



V2-1002

REV.

0

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN JOHN WILLIAMS

10-11-90

DWG TITLE: CABINETS - DOUBLE ROW

CHECKED S. TAUR

06-11-91

ALL FACILITIES

APPROVED

SCALE: NONE

CAD. ID. V2-1002.dwg

ER NO.

SHT. OF 1

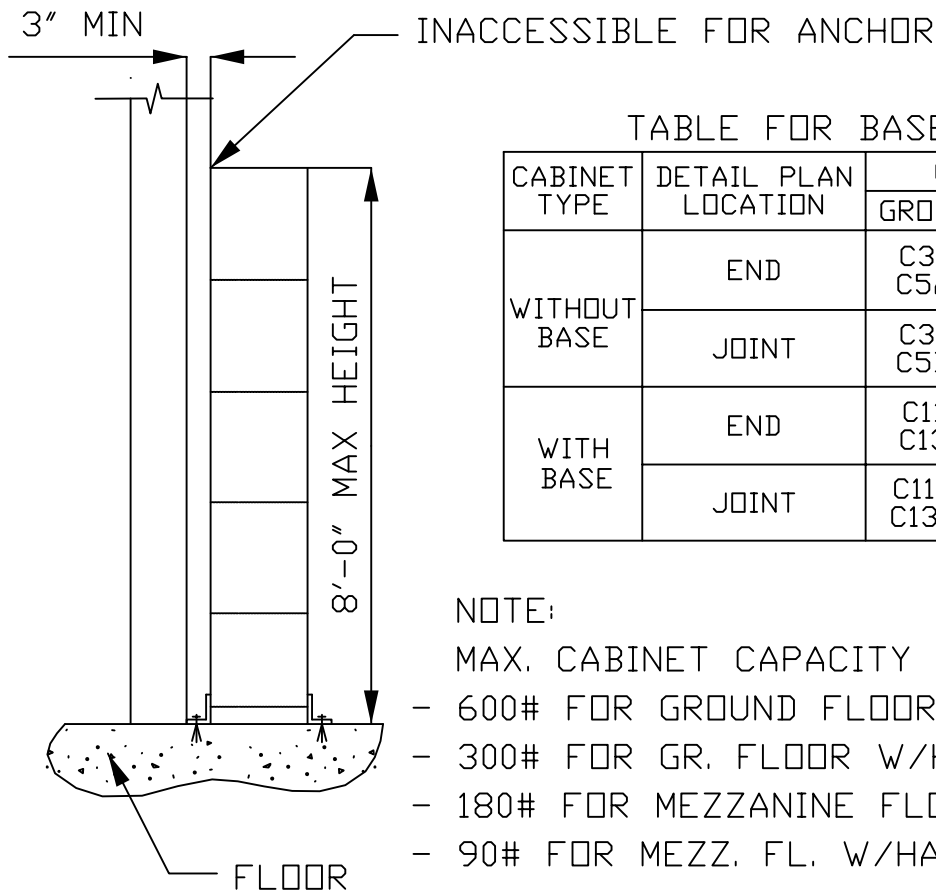
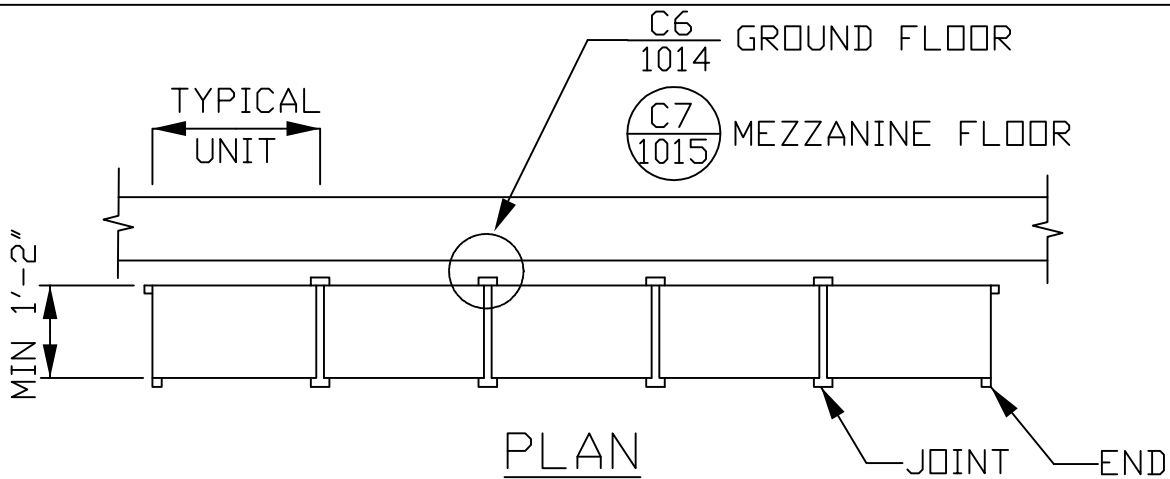


TABLE FOR BASE ANCHOR DETAIL

CABINET TYPE	DETAIL PLAN LOCATION	CABINET LOCATION	
		GROUND FL	MEZZ/UPPER
WITHOUT BASE	END	C3A/1011 C5A/1013	C4/1012 C5A/1013
	JOINT	C3B/1011 C5B/1013	C4/1012 C5B/1013
WITH BASE	END	C11/1019 C13/1021	C12/1020 C13/1021
	JOINT	C11A/1019 C13A/1021	C12/1020 C13A/1021

NOTE:

MAX. CABINET CAPACITY EQUALS:

- 600# FOR GROUND FLOOR
- 300# FOR GR. FLOOR W/HAZARDOUS MATERIAL
- 180# FOR MEZZANINE FLOOR
- 90# FOR MEZZ. FL. W/HAZARDOUS MATERIAL

OR MANUFACTURER LOAD SPECIFICATION
WHICHEVER IS LESS

SEE V2-1000 FOR SPECIFICATIONS

LOCKHEED MARTIN
SPACE SYSTEMS



V2-1003

REV.

0

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN JOHN WILLIAMS

10-11-90

DWG TITLE: CABINETS - CLOSE TO THE INACCESSIBLE WALL

CHECKED S. TAUR

06-11-91

ALL FACILITIES

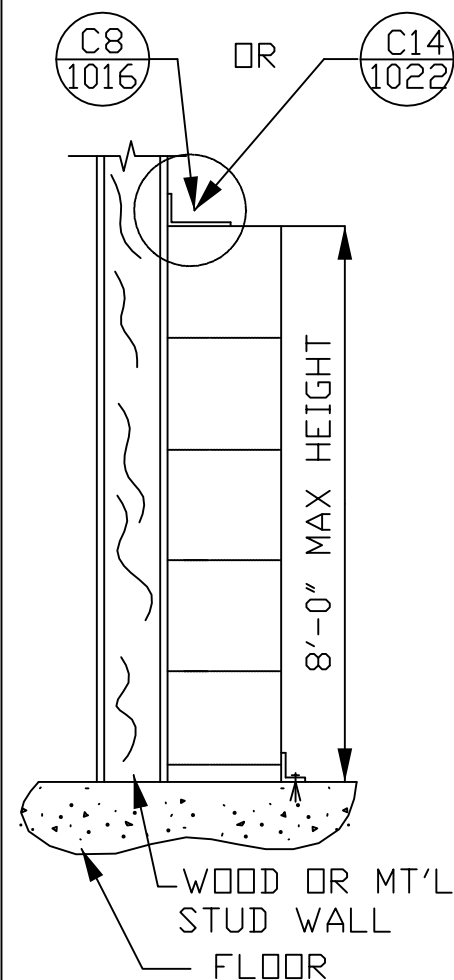
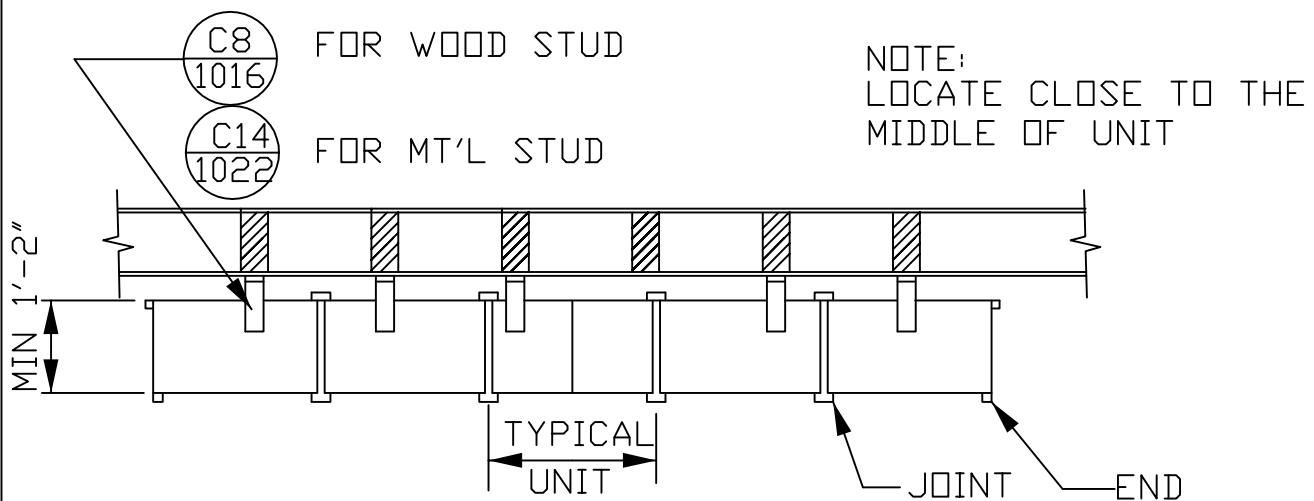
APPROVED

SCALE: NONE

CAD. ID. V2-1003.dwg

ER NO.

SHT. OF 1



ELEVATION

PLAN

TABLE FOR BASE ANCHOR DETAIL

CABINET TYPE	DETAIL PLAN LOCATION	CABINET LOCATION	
		GROUND FL	MEZZ/UPPER
WITHOUT BASE	END	C3A/1011 C5A/1013	C4/1012 C5A/1013
	JOINT	C3B/1011 C5B/1013	C4/1012 C5B/1013
WITH BASE	END	C11/1019 C13/1021	C12/1020 C13/1021
	JOINT	C11A/1019 C13A/1021	C12/1020 C13A/1021

NOTE:

MAX. CABINET CAPACITY EQUALS:

- 600# FOR GROUND FLOOR
- 300# FOR GR. FLOOR W/HAZARDOUS MATERIAL
- 180# FOR MEZZANINE FLOOR
- 90# FOR MEZZ. FL. W/HAZARDOUS MATERIAL

OR MANUFACTURER LOAD SPECIFICATION
WHICHEVER IS LESS.

SEE V2-1000 FOR SPECIFICATIONS

LOCKHEED MARTIN
SPACE SYSTEMS



V2-1004

REV.

0

DATE

6/92

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN G.BRAUFMAN

DWG TITLE: CABINET - ATTACHED TO METAL OR WOOD STUD WALL

CHECKED

APPROVED

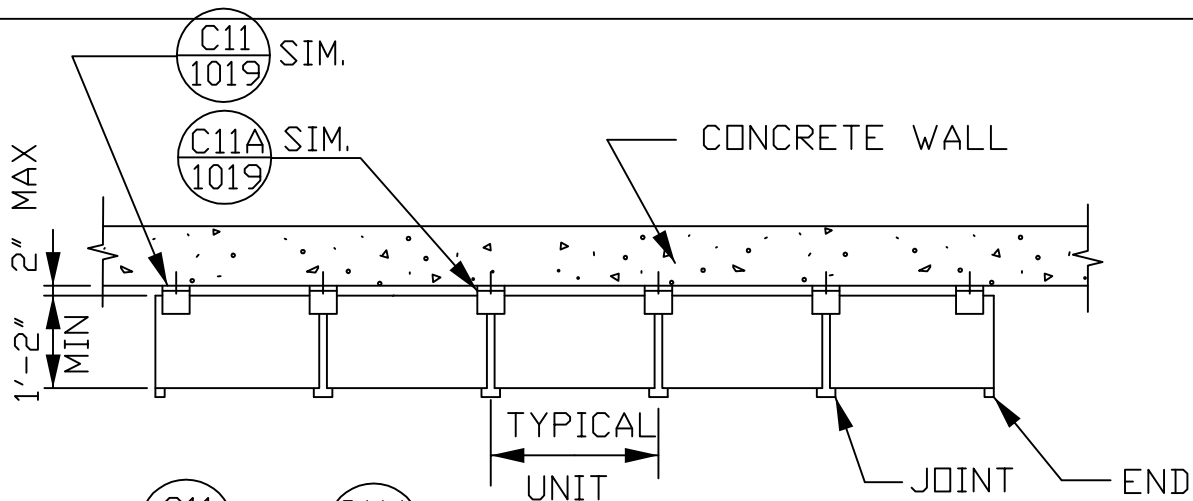
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SCALE: NONE

CAD. ID. V2-1004.DWG

ER NO.

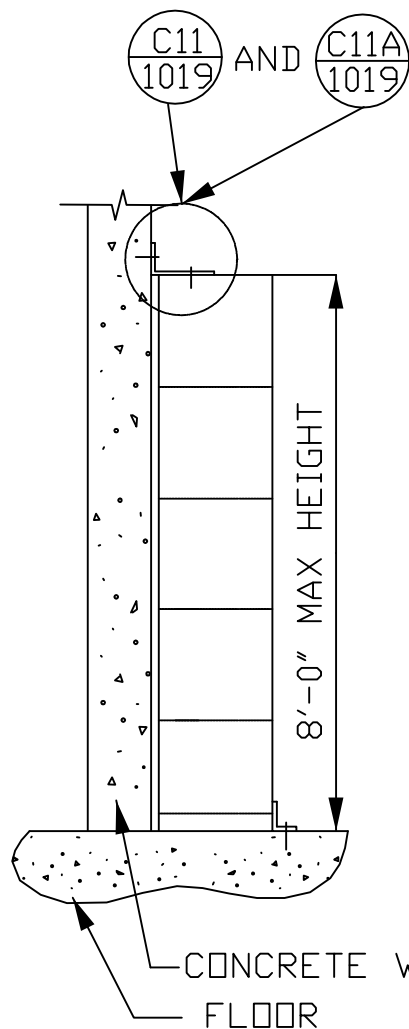
SHT. OF 1



PLAN

TABLE FOR BASE ANCHOR DETAIL

CABINET TYPE	DETAIL PLAN LOCATION	CABINET LOCATION	
		GROUND FL	MEZZ/UPPER
WITHOUT BASE	END	C3A/1011 C5A/1013	C4/1012 C5A/1013
	JOINT	C3B/1011 C5B/1013	C4/1012 C5B/1013
WITH BASE	END	C11/1019 C13/1021	C12/1020 C13/1021
	JOINT	C11A/1019 C13A/1021	C12/1020 C13A/1021



ELEVATION

NOTE:

MAX. CABINET CAPACITY EQUALS:

- 600# FOR GROUND FLOOR
- 300# FOR GR. FLOOR W/HAZARDOUS MATERIAL
- 180# FOR MEZZANINE FLOOR
- 90# FOR MEZZ. FL. W/HAZARDOUS MATERIAL

OR MANUFACTURER LOAD SPECIFICATION
WHICHEVER IS LESS.
SEE V2-1000 FOR SPECIFICATIONS

LOCKHEED MARTIN
SPACE SYSTEMS



V2-1005

REV.

0

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN JOHN WILLIAMS

10-12-90

DWG TITLE: CABINETS - ATTACHED TO CONCRETE WALL

CHECKED S. TAUR

06-11-91

ALL FACILITIES

APPROVED

SCALE: NONE

CAD. ID. V2-1005.dwg

ER NO.

SHT. OF 1

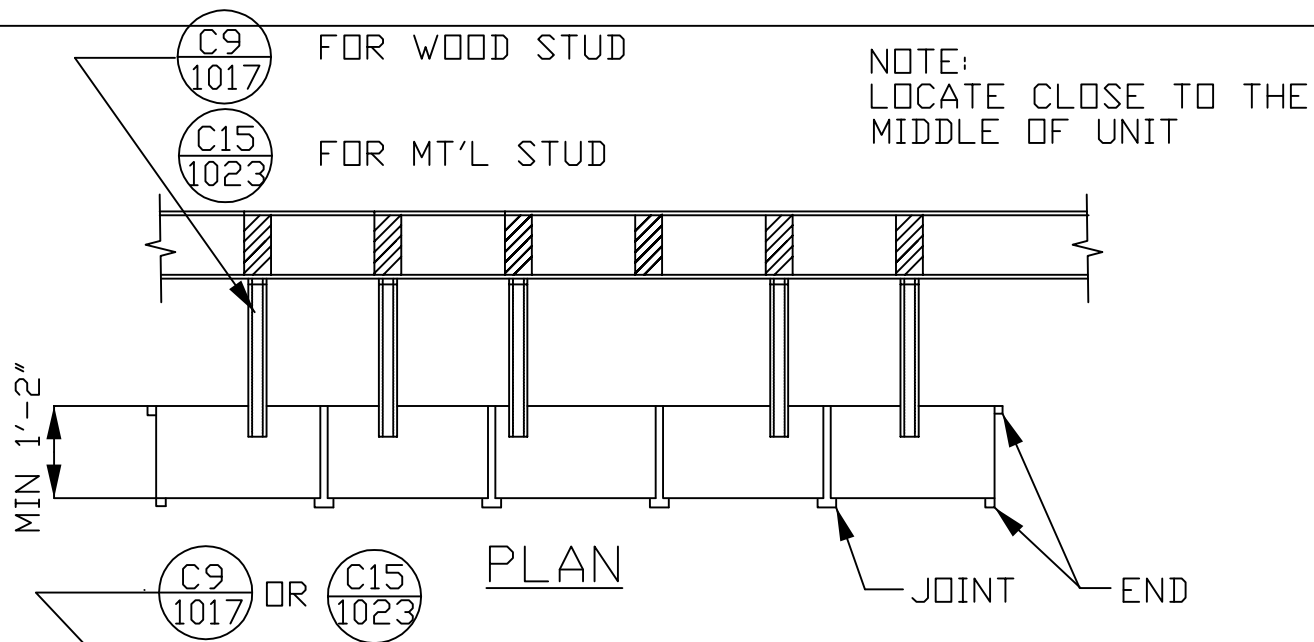


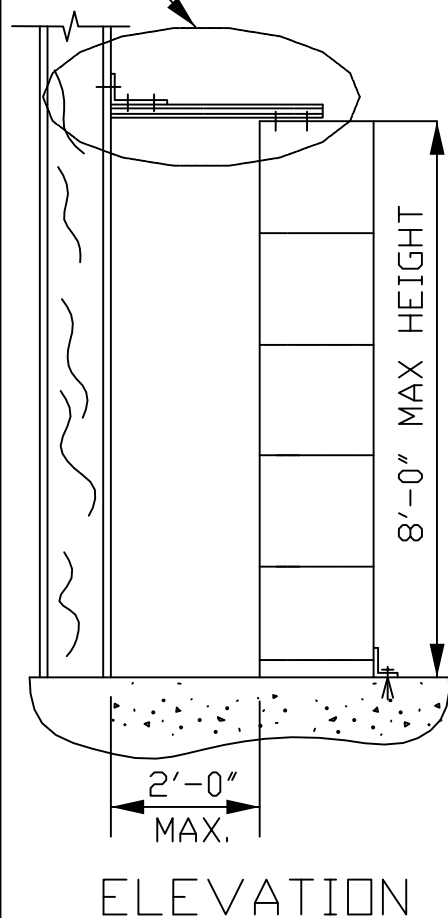
TABLE FOR BASE ANCHOR DETAIL

CABINET TYPE	DETAIL PLAN LOCATION	CABINET LOCATION	
		GROUND FL	MEZZ/UPPER
WITHOUT BASE	END	C3A/1011 C5A/1013	C4/1012 C5A/1013
	JOINT	C3B/1011 C5B/1013	C4/1012 C5B/1013
WITH BASE	END	C11/1019 C13/1021	C12/1020 C13/1021
	JOINT	C11A/1019 C13A/1021	C12/1020 C13A/1021

NOTE:
MAX. CABINET CAPACITY EQUALS:

- 600# FOR GROUND FLOOR
- 300# FOR GR. FLOOR W/HAZARDOUS MATERIAL
- 180# FOR MEZZANINE FLOOR
- 90# FOR MEZZ. FL. W/HAZARDOUS MATERIAL

OR MANUFACTURER LOAD SPECIFICATION
WHICHEVER IS LESS.
SEE V2-1000 FOR SPECIFICATIONS



LOCKHEED MARTIN
SPACE SYSTEMS



V2-1006

REV.	0
DATE	
	10-12-90
	6-11-91
SHT. OF	1

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN JOHN WILLIAMS

DWG TITLE: CABINETS-ATTACHED TO METAL OR WOOD STUD WALL W/DISTANCE

CHECKED S. TAUR

ALL FACILITIES

APPROVED

SCALE: NONE

CAD. ID. V2-1006.dwg

ER NO.

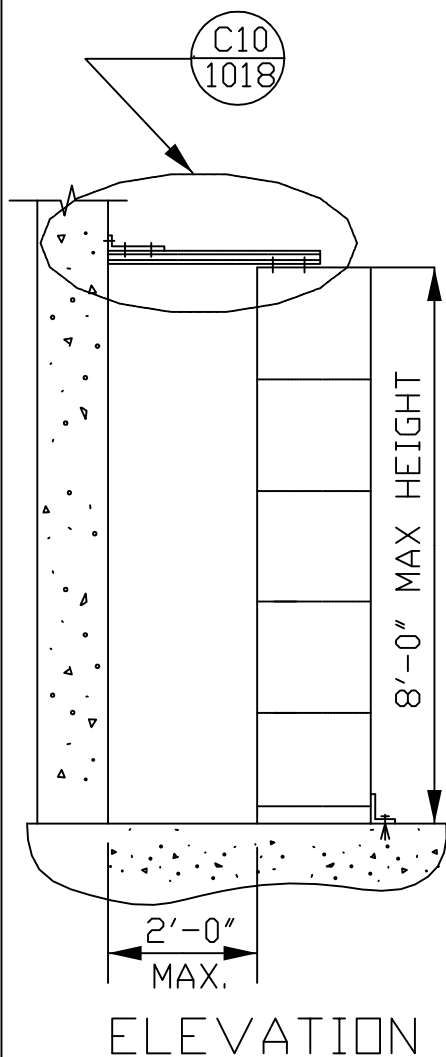
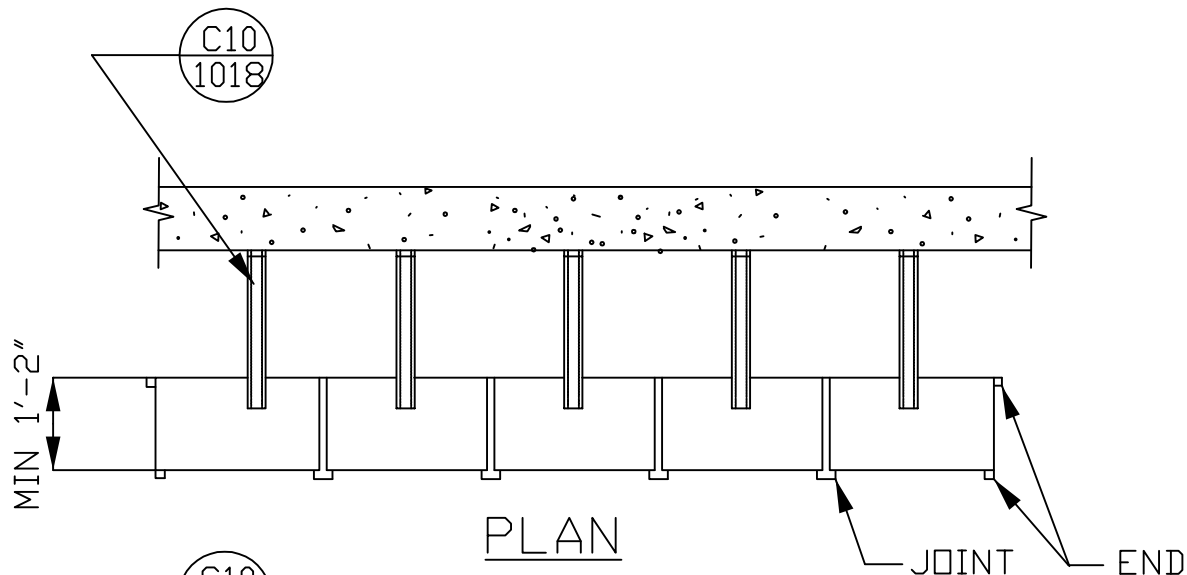


TABLE FOR BASE ANCHOR DETAIL

CABINET TYPE	DETAIL PLAN LOCATION	CABINET LOCATION	
		GROUND FL	MEZZ/UPPER
WITHOUT BASE	END	C3A/1011 C5A/1013	C4/1012 C5A/1013
	JOINT	C3B/1011 C5B/1013	C4/1012 C5B/1013
WITH BASE	END	C11/1019 C13/1021	C12/1020 C13/1021
	JOINT	C11A/1019 C13A/1021	C12/1020 C13A/1021

NOTE:

MAX. CABINET CAPACITY EQUALS:

- 600# FOR GROUND FLOOR
- 300# FOR GR. FLOOR W/HAZARDOUS MATERIAL
- 180# FOR MEZZANINE FLOOR
- 90# FOR MEZZ. FL. W/HAZARDOUS MATERIAL

OR MANUFACTURER LOAD SPECIFICATION
WHICHEVER IS LESS.
SEE V2-1000 FOR SPECIFICATIONS

LOCKHEED MARTIN
SPACE SYSTEMS



V2-1007

REV.

0

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN JOHN WILLIAMS

10-12-90

DWG TITLE: CABINETS - ATTACHED TO CONCRETE WALL WITH DISTANCE

CHECKED S. TAUR

06-11-91

ALL FACILITIES

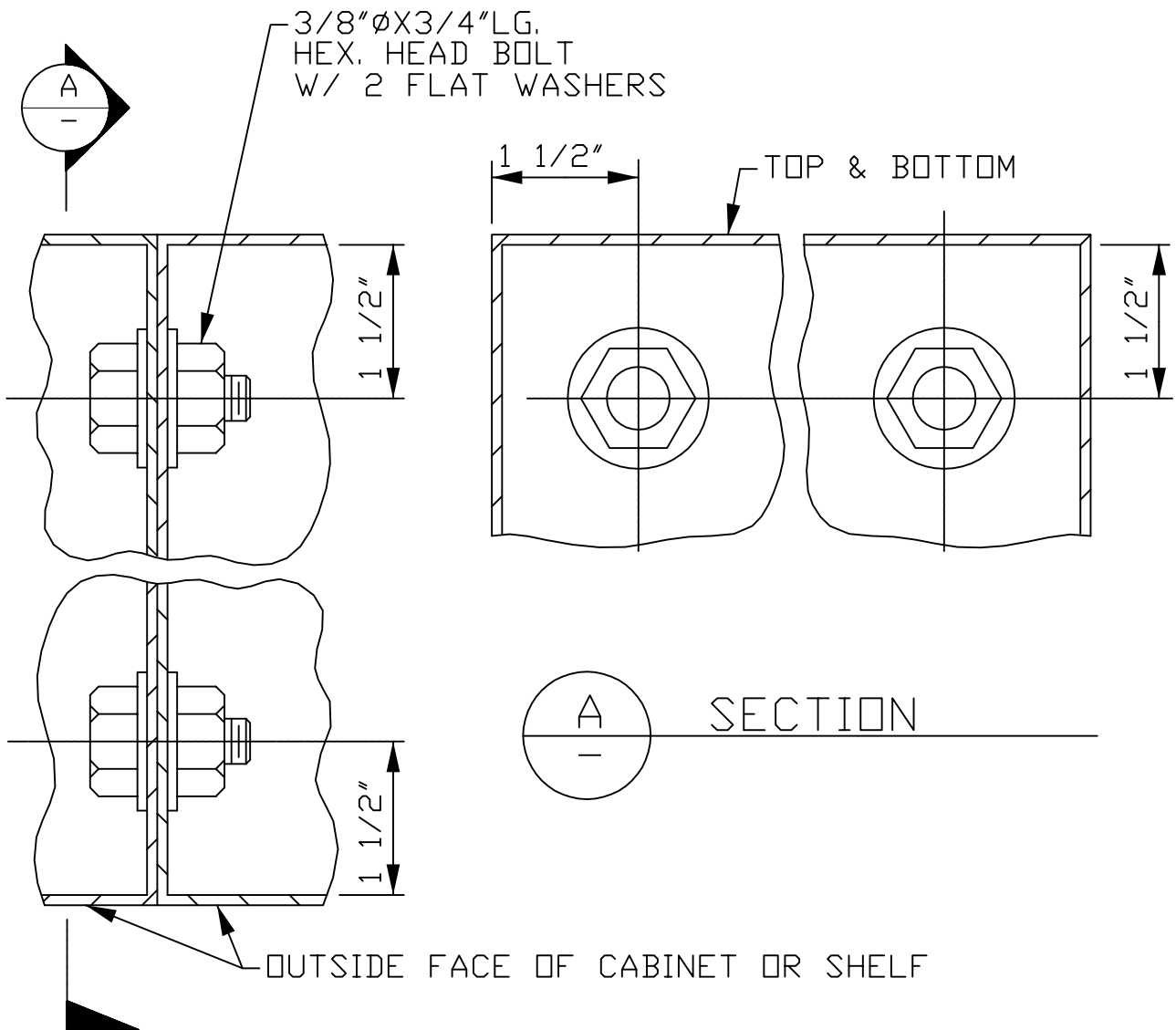
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SCALE: NONE

CAD. ID. V2-1007.dwg

ER NO.

SHT. OF 1



C1
1008

DETAIL

LOCKHEED MARTIN
SPACE SYSTEMS



V2-1008

REV.

0

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN JOHN WILLIAMS

10-12-90

DWG TITLE: DETAIL FOR CABINET - JOINT W/ BOLTS - TOP & BOTTOM

CHECKED S. TAUR

06-11-91

ALL FACILITIES

APPROVED

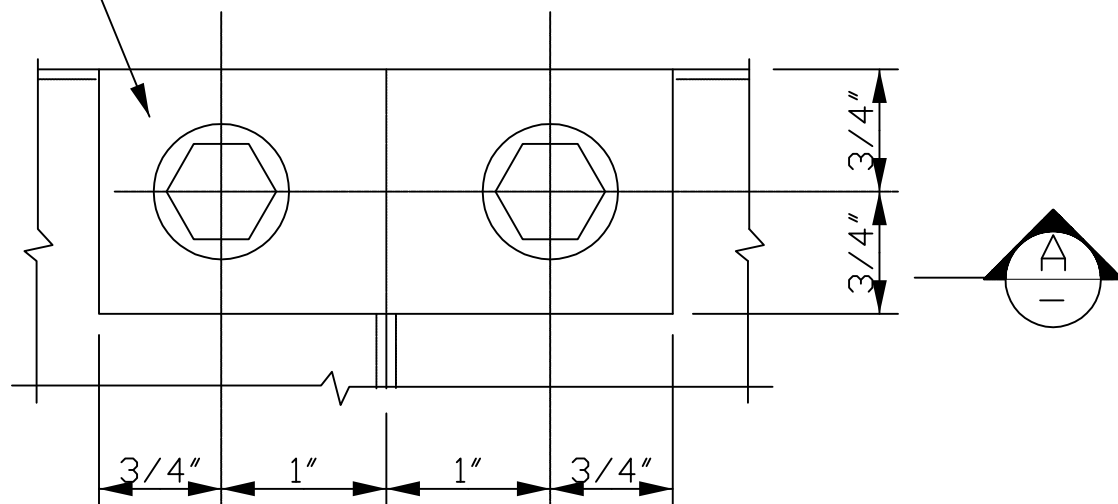
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CAD. ID. V2-1008.dwg

ER NO.

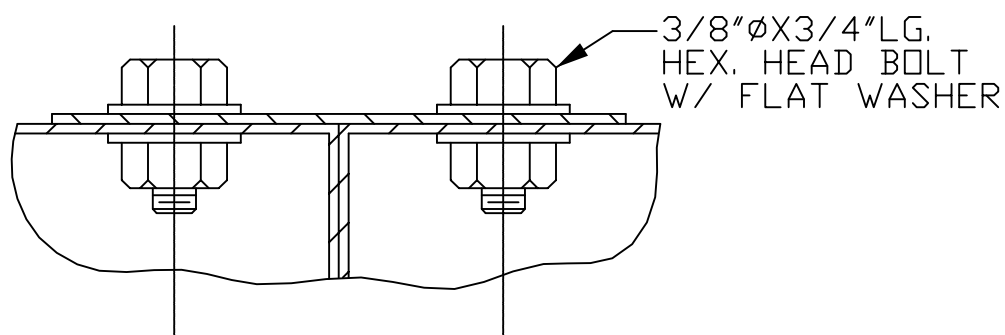
SHT. OF 1

14GA PL X1 1/2"X3 1/2" LG. W /7/16"Ø HOLES



C2
1009

DETAIL



A

SECTION

LOCKHEED MARTIN
SPACE SYSTEMS



V2-1009

REV.

0

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN JOHN WILLIAMS

10-12-90

DWG TITLE: DETAIL FOR CABINET - JOINT W/ BOLTS & PLATE - TOP

CHECKED S. TAUR

06-11-91

ALL FACILITIES

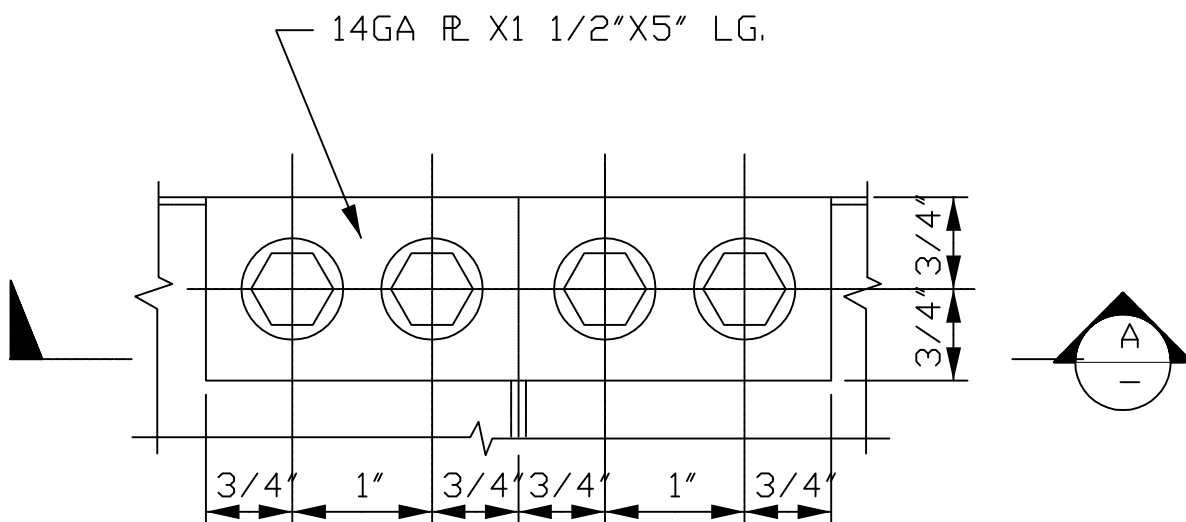
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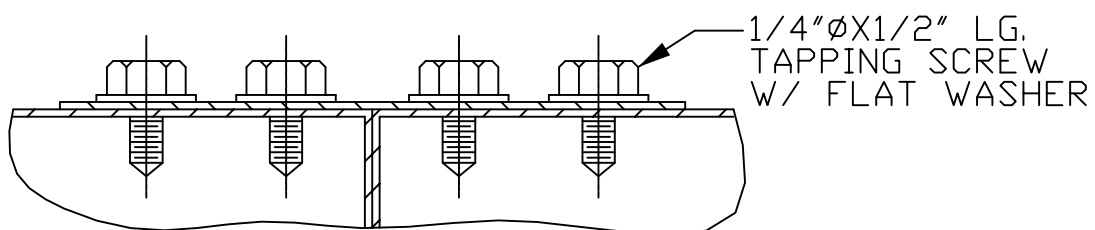
ER NO.

SHT. OF 1



C2A
1010

DETAIL



A
—

SECTION

LOCKHEED MARTIN
SPACE SYSTEMS



V2-1010

REV.

0

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN JOHN WILLIAMS

10-12-90

DWG TITLE: DETAIL FOR CABINET - JOINT W/ SELF SCREWS & PLATE - TOP

CHECKED S. TAUR

06-11-91

ALL FACILITIES

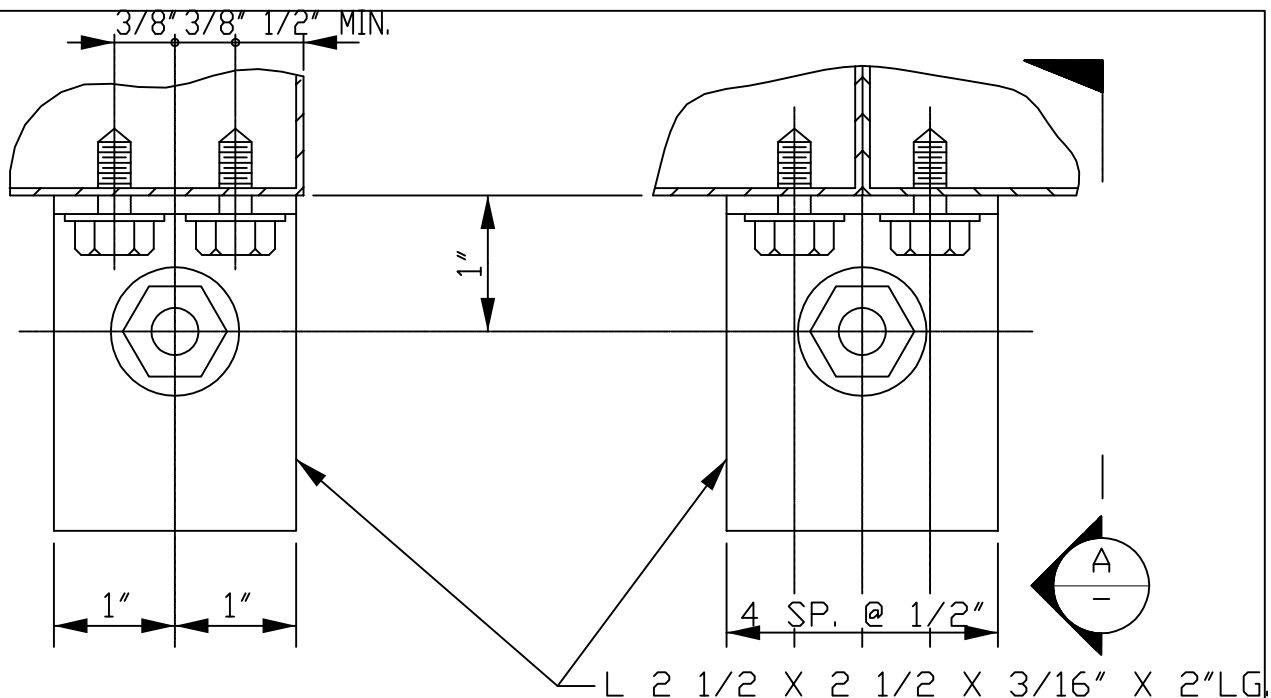
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SCALE: NONE

CAD. ID. V2-1010.dwg

ER NO.

SHT. OF 1

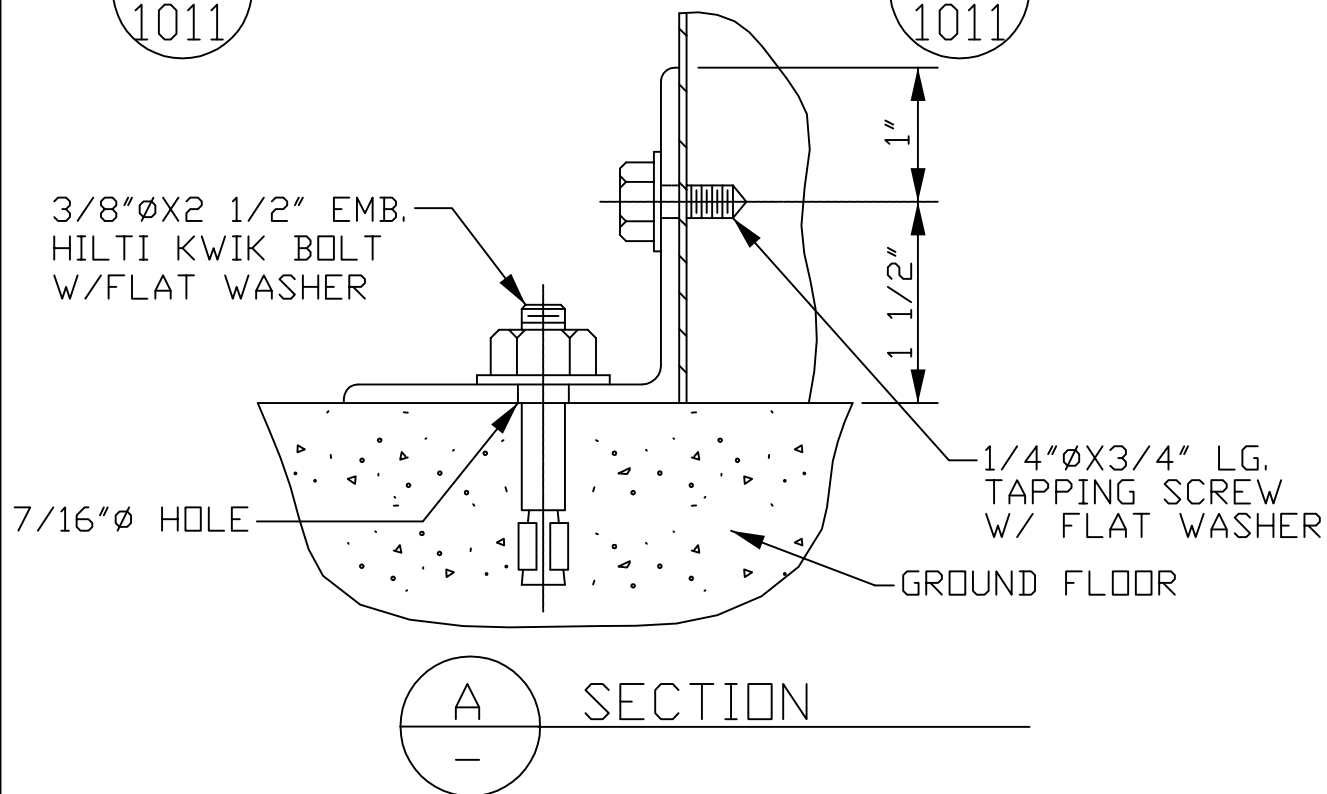


C3A
1011

DETAIL

C3B
1011

DETAIL



LOCKHEED MARTIN
SPACE SYSTEMS

V2-1011

REV.

0

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN JOHN WILLIAMS

10-12-90

DWG TITLE: DETAIL FOR CABINET - ANCHOR ON GROUND FLOOR

CHECKED S. TAUR

06-11-91

ALL FACILITIES

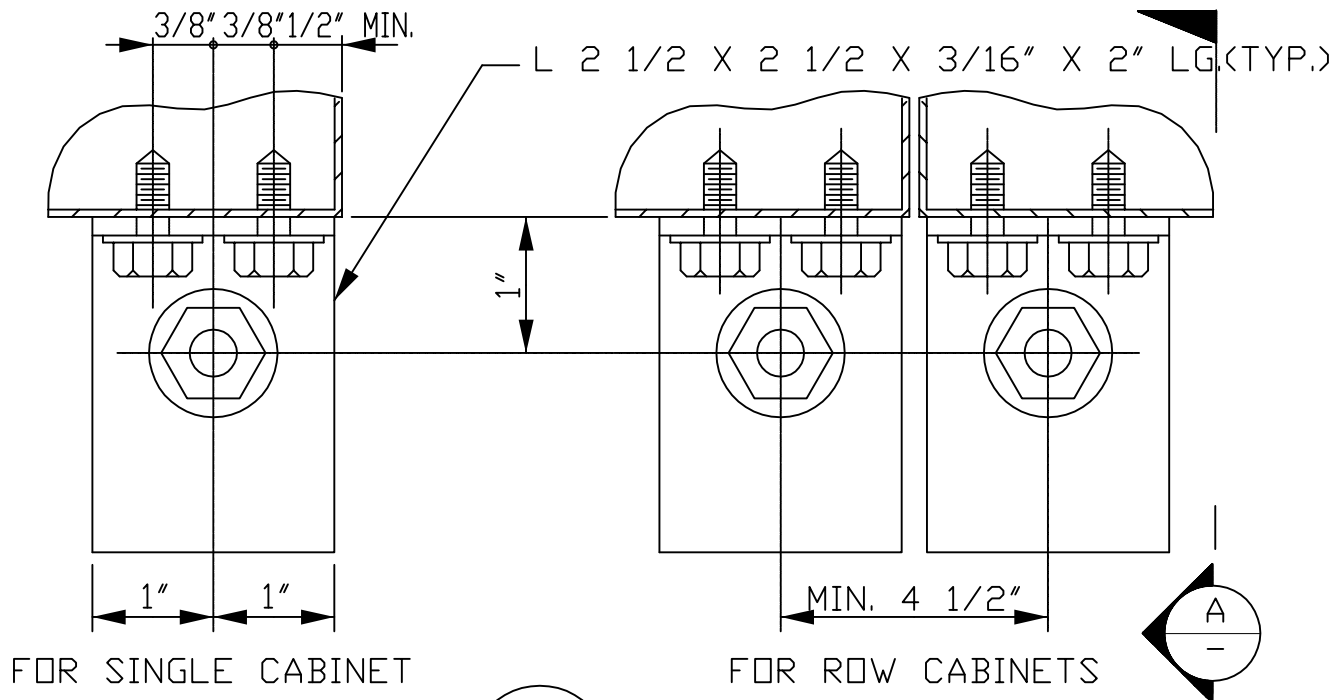
APPROVED

SCALE: NONE

CAD. ID. V2-1011.dwg

ER NO.

SHT. OF 1



C4
1012

DETAIL

1/4"ØX3/4" LG.
TAPPING SCREW
W/FLAT WASHER

3/8"Ø HILTI KWIK BOLT

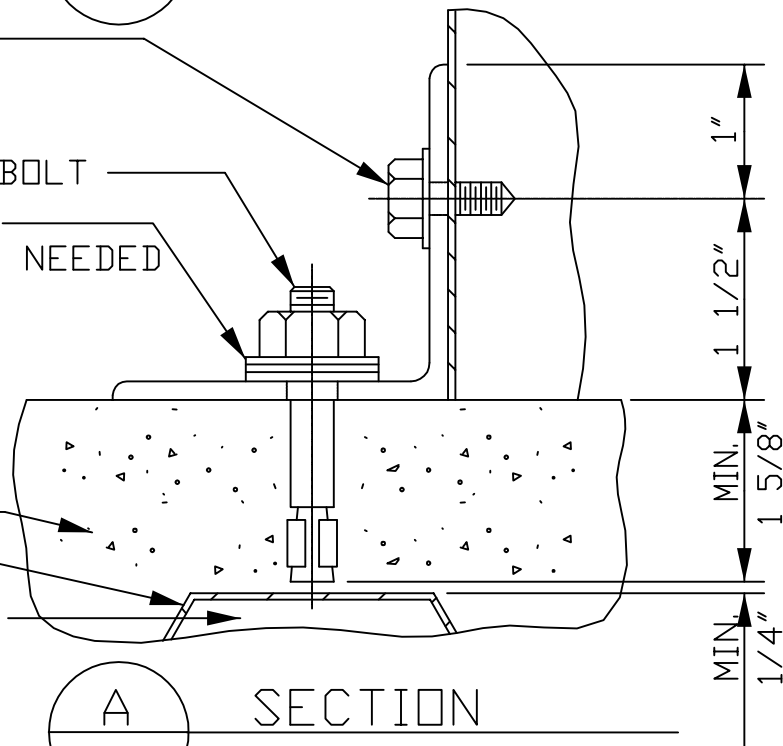
FILL BENEATH NUT
W/FLAT WASHERS AS NEEDED

NOTE:
DRILL CAREFULLY
DO NOT PENETRATE
INTO ELECTRICAL
RACEWAY

MEZZANINE FLOOR

METAL DECK

UNDER FLOOR DUCT



SECTION

LOCKHEED MARTIN
SPACE SYSTEMS



V2-1012

REV.

0

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN JOHN WILLIAMS

10-12-90

DWG TITLE: DETAIL FOR CABINET - ANCHOR ON MEZZANINE FLOOR

CHECKED S. TAUR

06-11-91

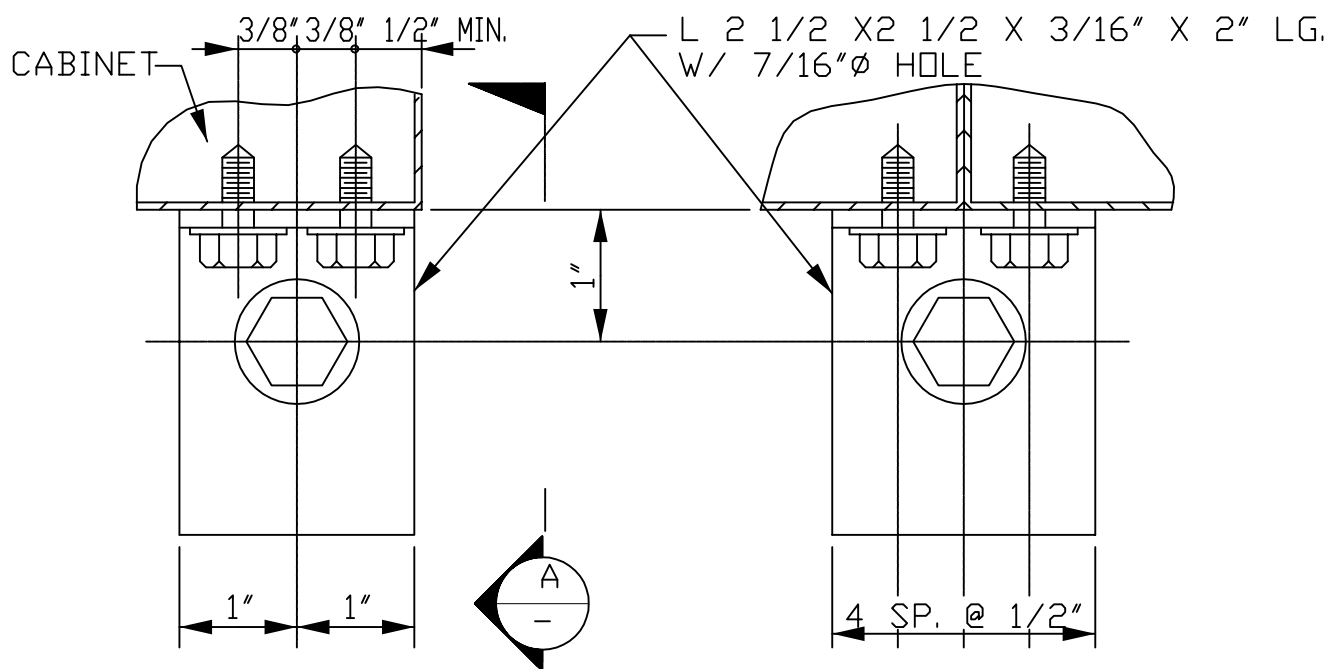
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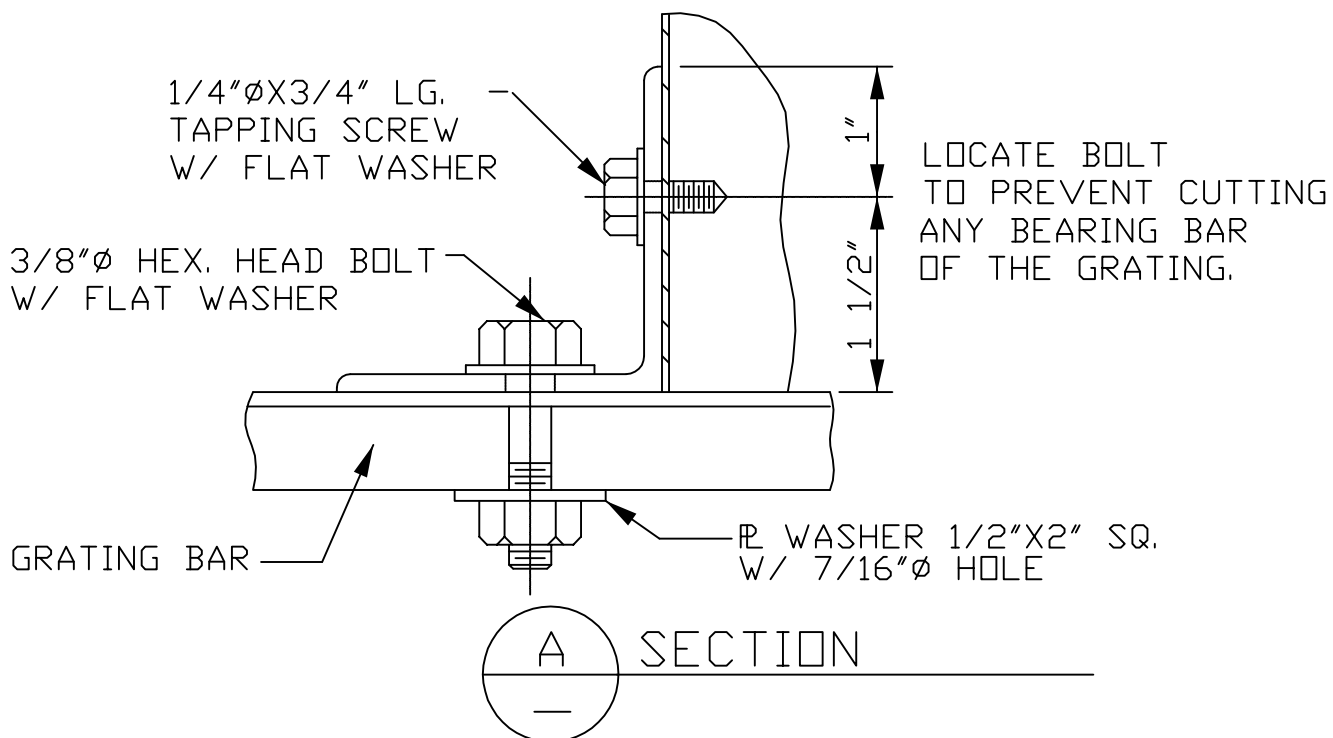
ER NO.

SHT. OF 1



C5A DETAIL
1013

C5B DETAIL
1013



LOCKHEED MARTIN
SPACE SYSTEMS



V2-1013

REV.

0

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN JOHN WILLIAMS

10-12-90

DWG TITLE: DETAIL FOR CABINET - ANCHOR ON GRATING

CHECKED S. TAUR

06-11-91

ALL FACILITIES

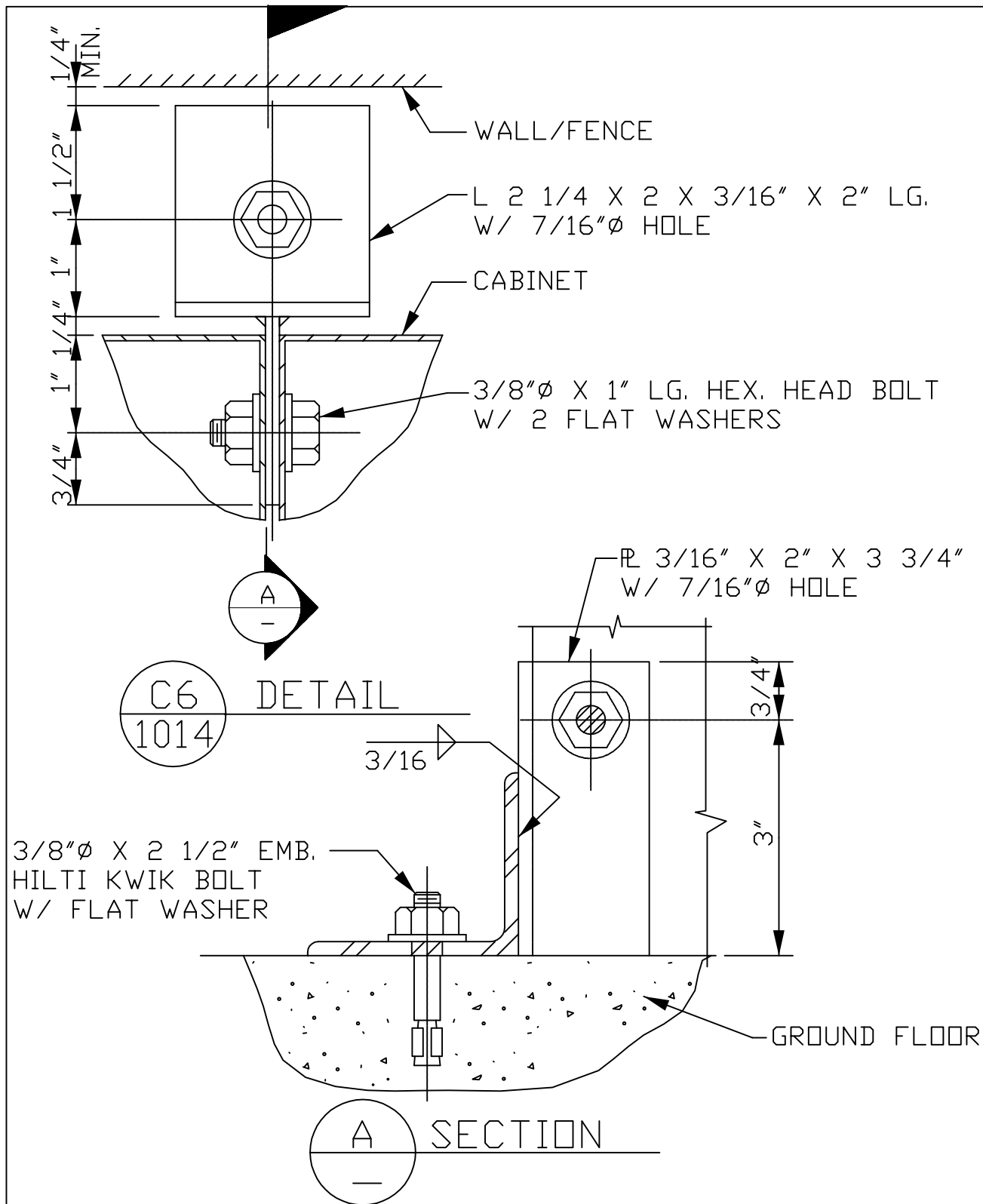
APPROVED

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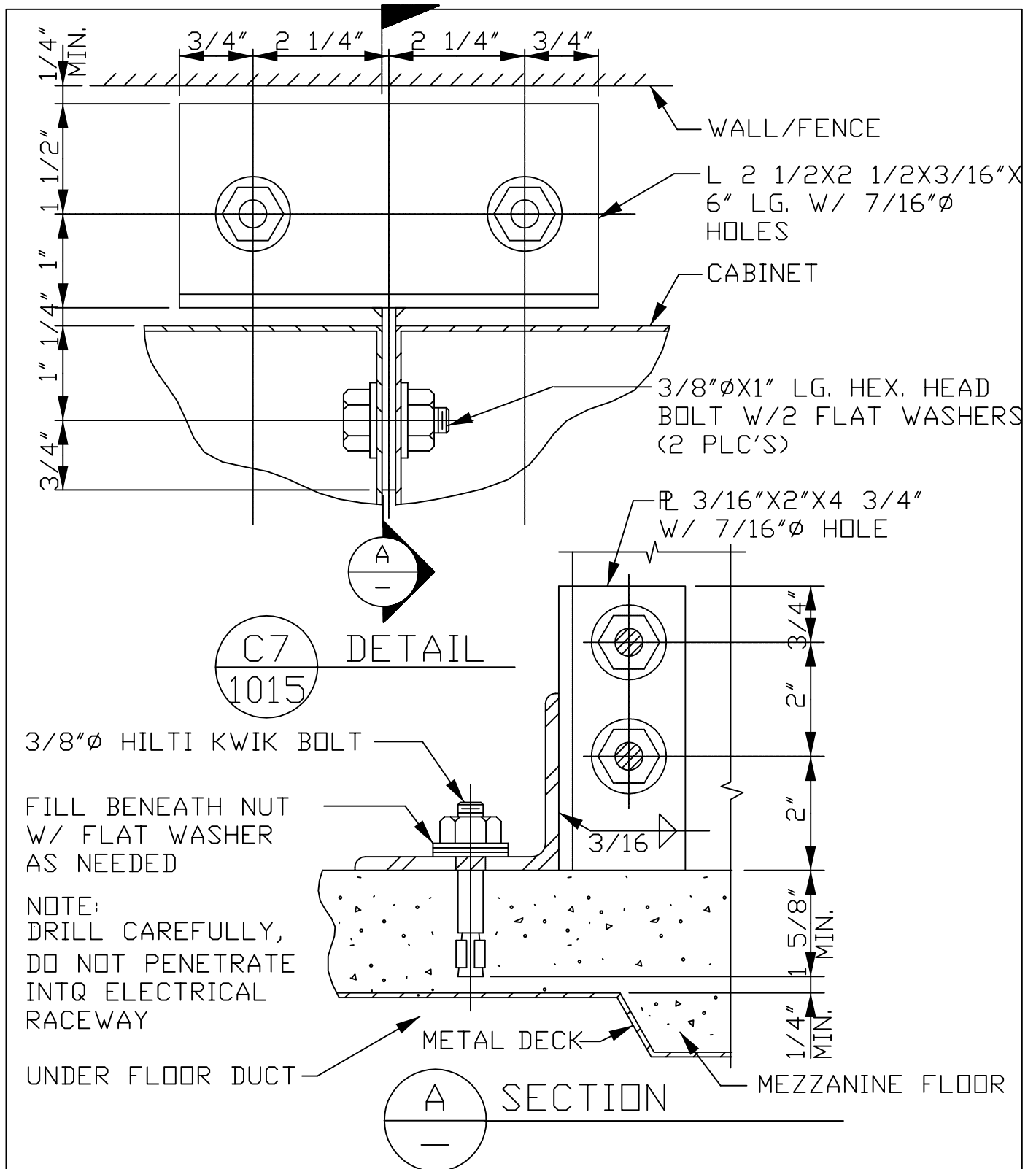
CAD. ID. V2-1013.dwg

ER NO.

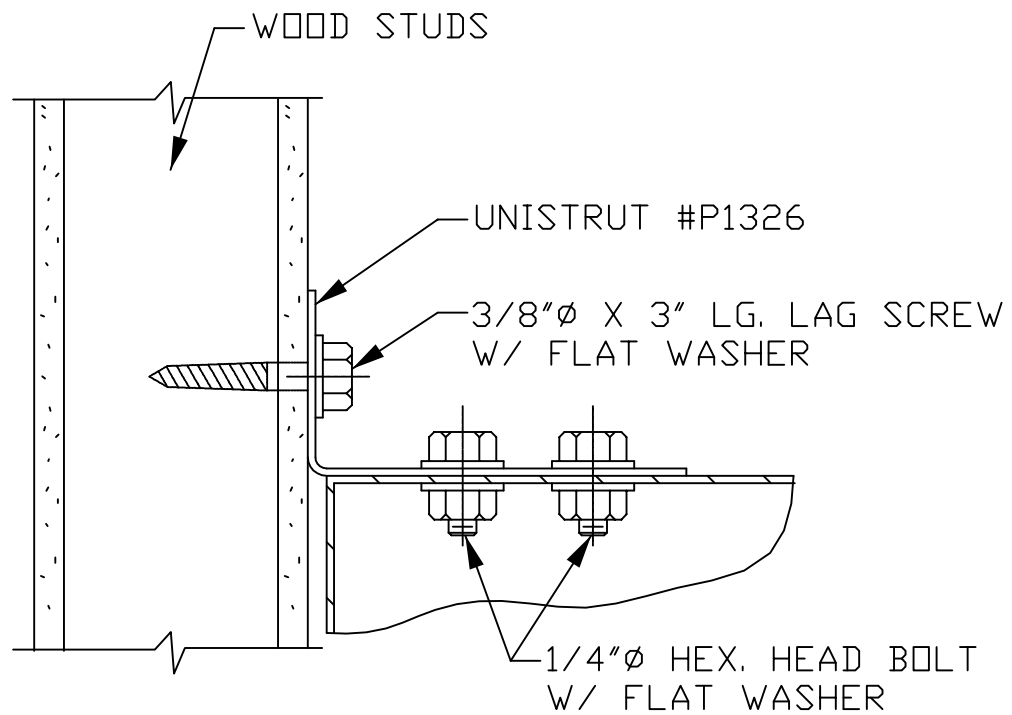
SHT. OF 1



LOCKHEED MARTIN SPACE SYSTEMS		V2-1014		REV.
				0
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN JOHN WILLIAMS		DATE
DWG TITLE: DETAIL FOR CABINET - ANCHOR ON GROUND FL (INACCESSIBLE		CHECKED S. TAUR		10-12-90
PLACE) : ALL FACILITIES		APPROVED		06-11-91
SCALE: NONE	CAD. ID. V2-1014.dwg	ER NO.	SHT. OF 1	1



LOCKHEED MARTIN SPACE SYSTEMS		V2-1015		REV.
				0
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN JOHN WILLIAMS		DATE
DWG TITLE: DETAIL FOR CABINET - ANCHOR ON MEZZ. FL (INACCESSIBLE PLACE)		CHECKED S. TAUR		10-12-90
ALL FACILITIES		APPROVED		06-11-91
SCALE: NONE	CAD. ID. V2-1015.dwg	ER NO.	SHT. OF 1	



C8
1016

DETAIL

LOCKHEED MARTIN
SPACE SYSTEMS



V2-1016

REV.	0
DATE	
DRAWN	JOHN WILLIAMS
CHECKED	S. TAUR
APPROVED	
SHT. OF	1

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN JOHN WILLIAMS

10-12-90

DWG TITLE: DETAIL FOR CABINET - SHORT ANCHOR IN WOOD STUD

CHECKED S. TAUR

06-11-91

ALL FACILITIES

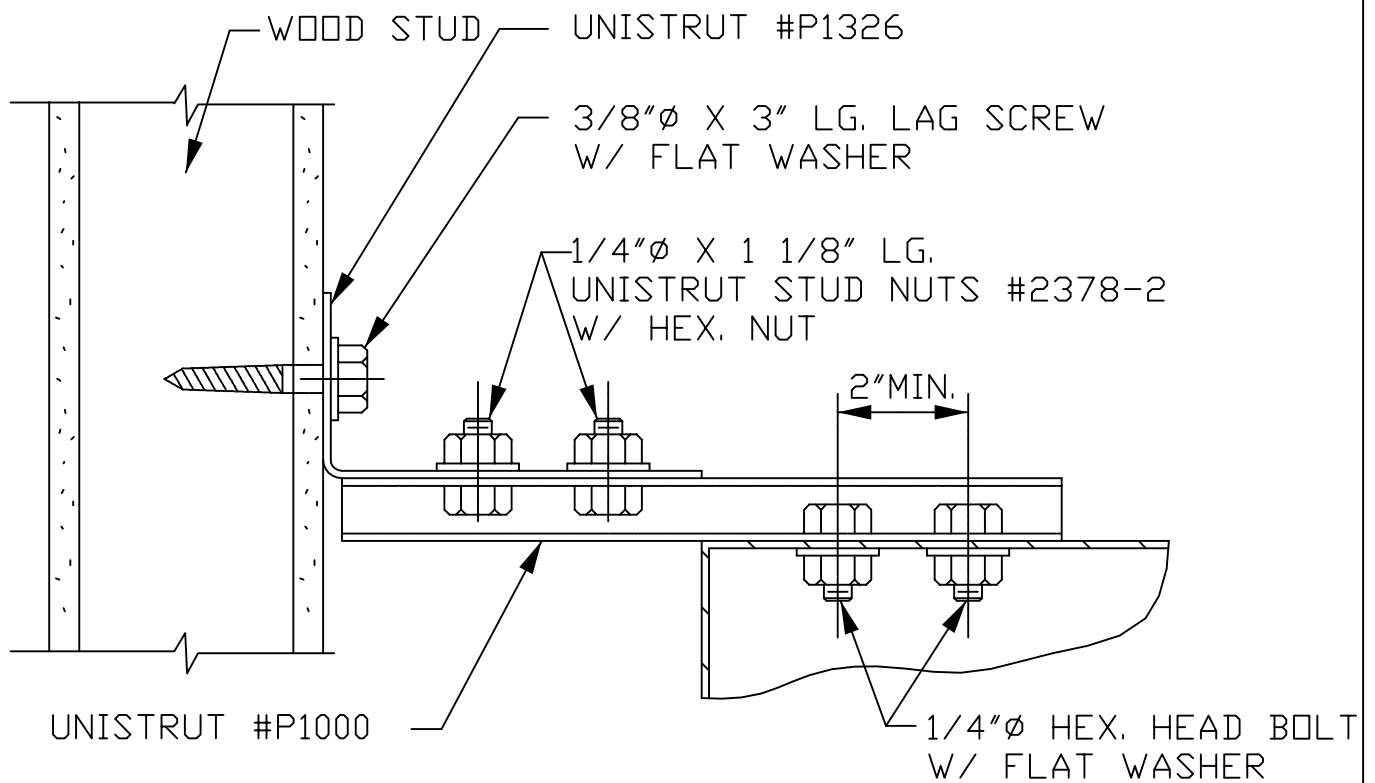
APPROVED

SCALE: NONE

CAD. ID. V2-1016.dwg

ER NO.

SHT. OF 1



C9
1017

DETAIL

LOCKHEED MARTIN
SPACE SYSTEMS



V2-1017

REV.	0
DATE	
	10-12-90
	06-11-91
SHT. OF	1

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN JOHN WILLIAMS

DWG TITLE: DETAIL FOR CABINET - LONG ANCHOR IN WOOD STUD

CHECKED S. TAUR

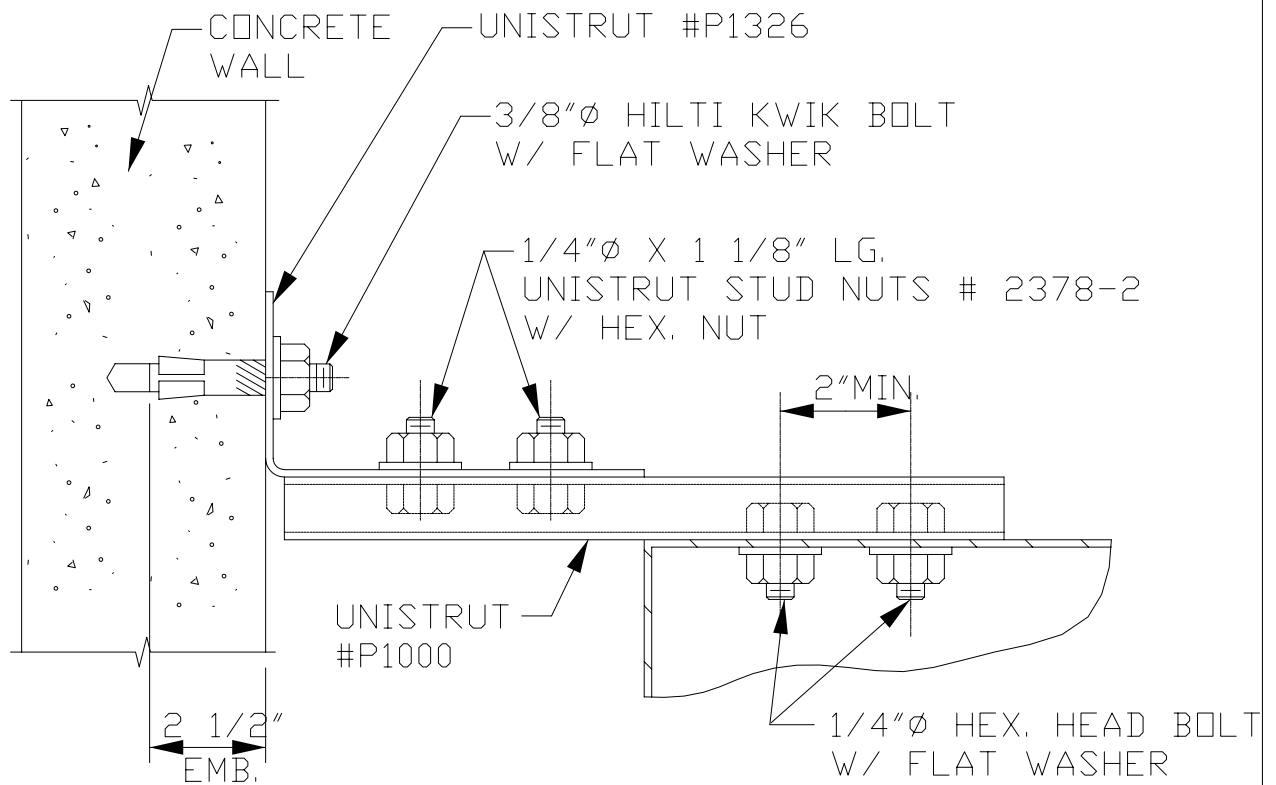
ALL FACILITIES

APPROVED

SCALE: NONE

CAD. ID. V2-1017.dwg

ER NO.



C10 DETAIL
1018

LOCKHEED MARTIN
SPACE SYSTEMS



V2-1018

REV.

0

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN JOHN WILLIAMS

10-12-90

DWG TITLE: DETAIL FOR CABINET - LONG ANCHOR IN CONCRETE WALL

CHECKED S. TAUR

06-11-91

ALL FACILITIES

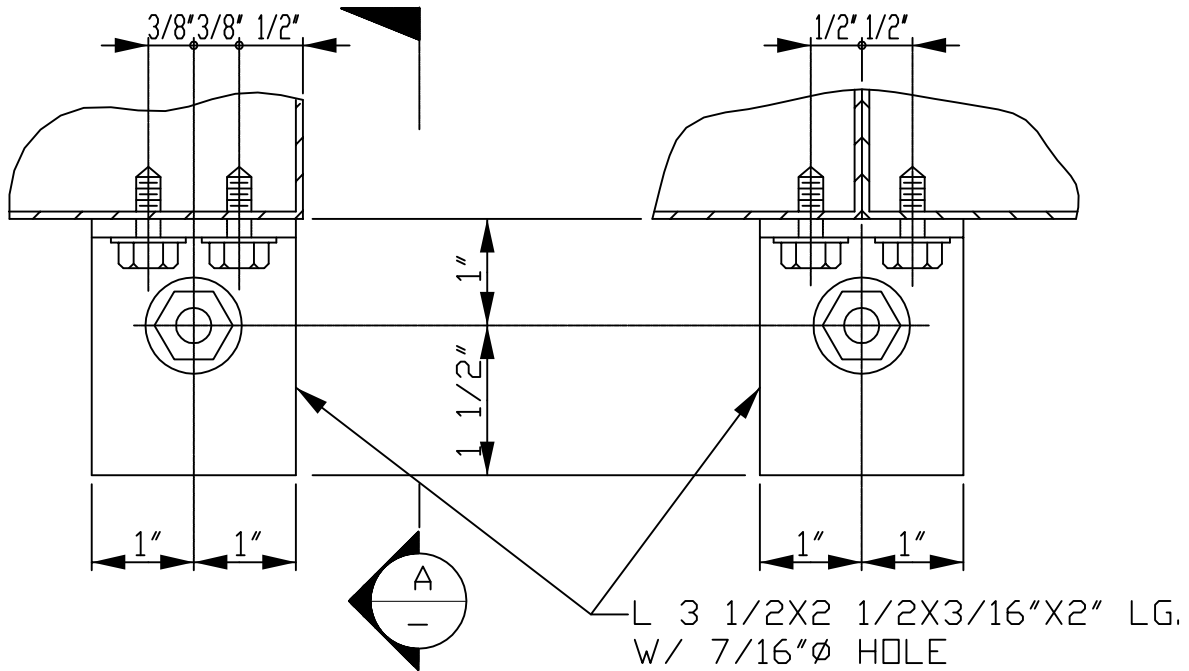
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SCALE: NONE

CAD. ID. V2-1018.dwg

ER NO.

SHT. OF 1

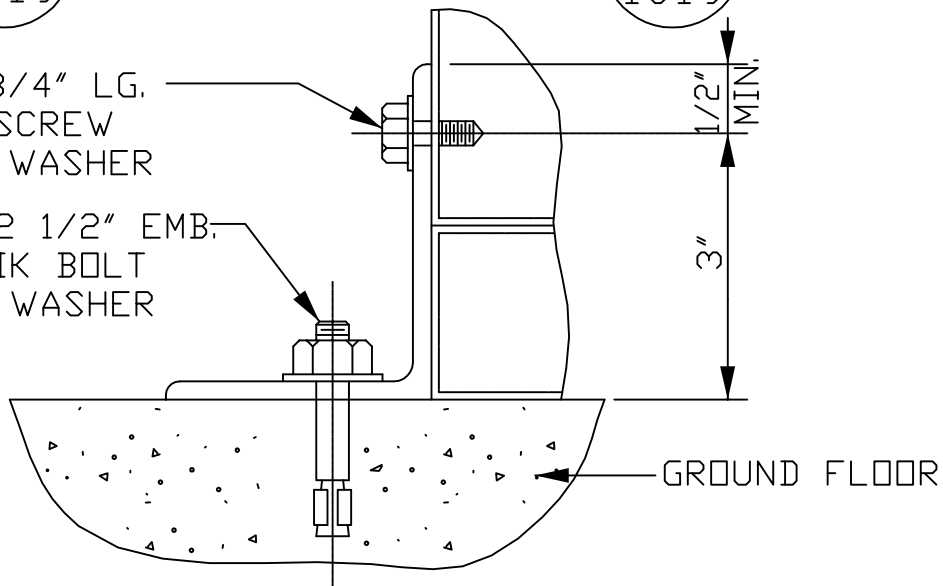


C11 DETAIL
1019

C11A DETAIL
1019

1/4" Ø X 3/4" LG.
TAPPING SCREW
W/ FLAT WASHER

3/8" Ø X 2 1/2" EMB.
HILTI KWIK BOLT
W/ FLAT WASHER



A SECTION

LOCKHEED MARTIN
SPACE SYSTEMS



V2-1019

REV.

0

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN JOHN WILLIAMS

10-12-90

DWG TITLE: DETAIL FOR CABINET W/ BASE - ANCHOR ON GROUND FLOOR

CHECKED S. TAUR

06-11-91

ALL FACILITIES

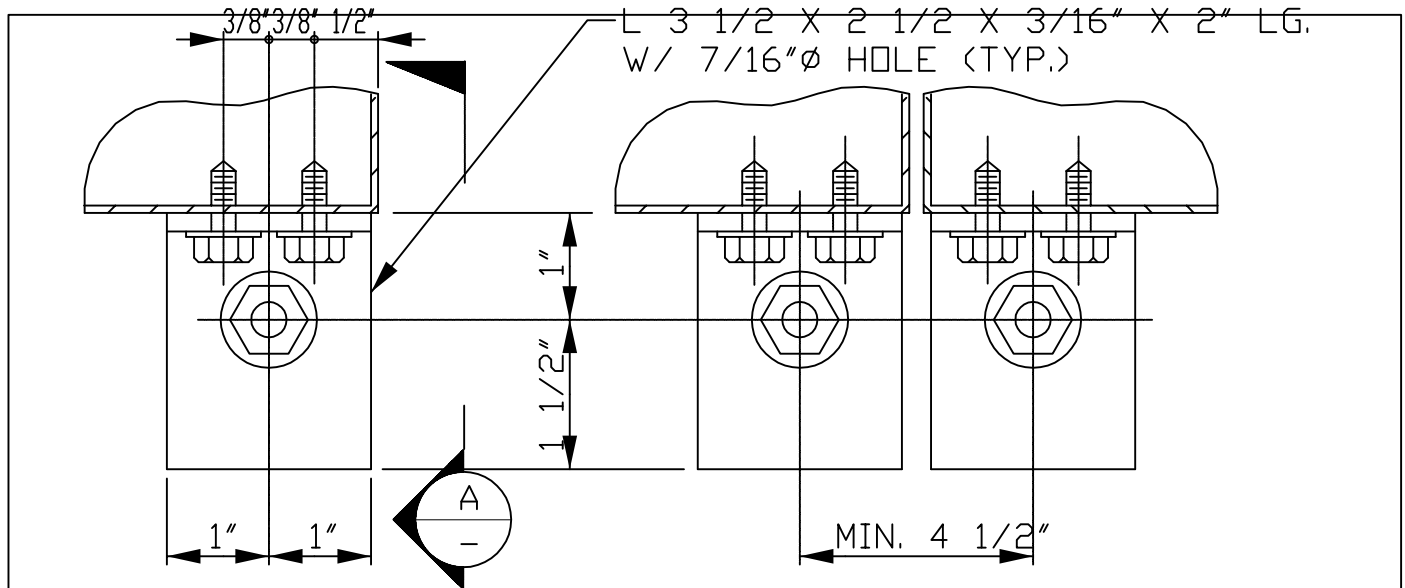
APPROVED

SCALE: NONE

CAD. ID. V2-1019.dwg

ER NO.

SHT. OF 1



FOR SINGLE CABINET

FOR ROW CABINETS

C12
1020

DETAIL

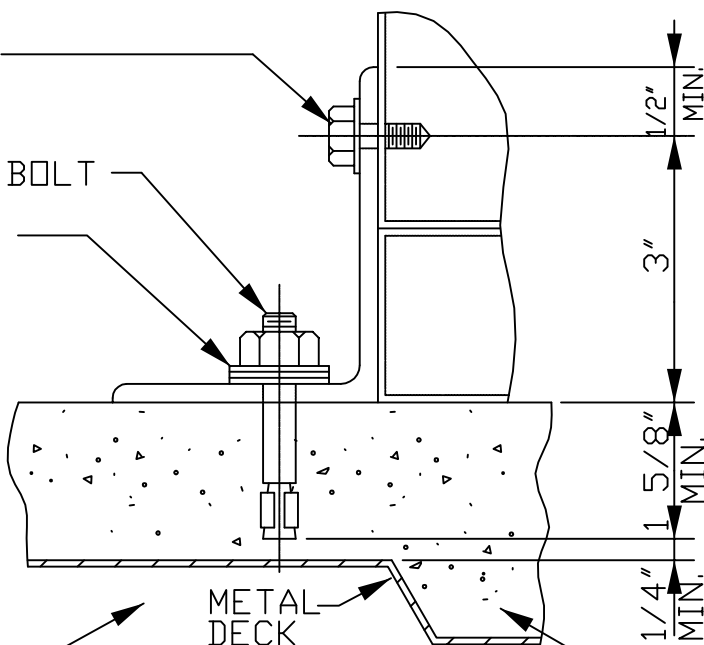
1/4" Ø X 3/4" LG.
TAPPING SCREW
W/ FLAT WASHER

3/8" Ø HILTI KWIK BOLT

FILL BENEATH NUT
W/ FLAT WASHERS
AS NEEDED

NOTE:
DRILL CAREFULLY,
DO NOT PENETRATE
INTO ELECTRICAL
RACEWAY.

UNDER FLOOR DUCT



SECTION

MEZZANINE FLOOR

LOCKHEED MARTIN
SPACE SYSTEMS



V2-1020

REV.

0

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN JOHN WILLIAMS

10-12-90

DWG TITLE: DETAIL FOR CABINET W/ BASE - ANCHOR ON MEZZANINE FLOOR

CHECKED S. TAUR

06-11-91

ALL FACILITIES

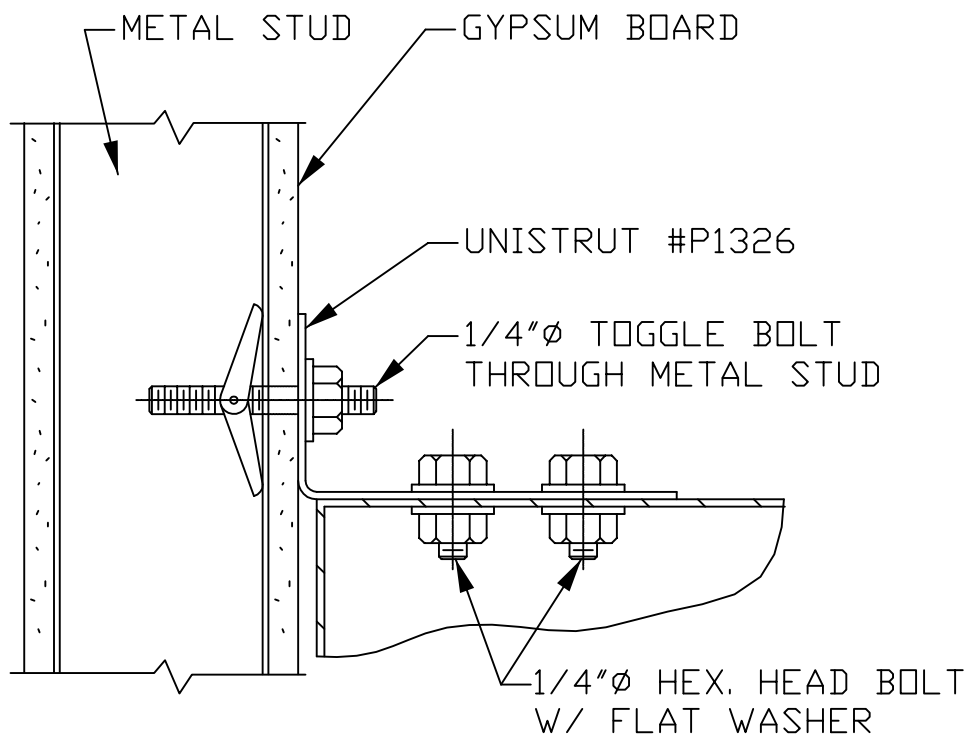
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SCALE: NONE

CAD. ID. V2-1020.dwg

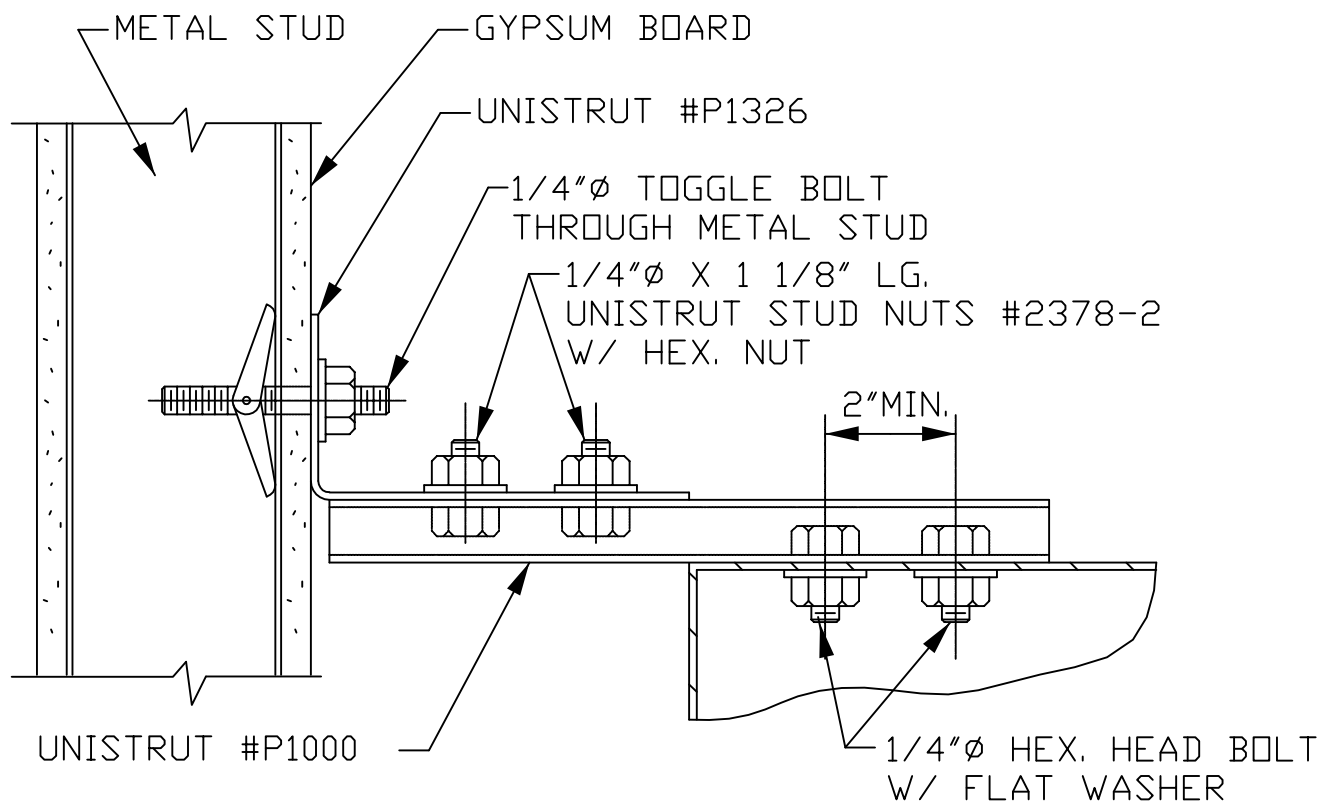
ER NO.

SHT. OF 1



C14 DETAIL
1022

LOCKHEED MARTIN SPACE SYSTEMS		V2-1022	REV. 01
			DATE
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN S. SANTOS	5-13-92
DWG TITLE: DETAIL FOR CABINET - SHORT ANCHOR IN METAL STUD		CHECKED S.TAUR	5-26-92
ALL FACILITIES		APPROVED	
SCALE: NONE	CAD. ID. V2-1022.dwg	ER NO.	SHT. OF 1



C15 DETAIL
1023

LOCKHEED MARTIN
SPACE SYSTEMS



V2-1023

REV.

01

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN S. SANTOS

5-13-92

DWG TITLE: DETAIL FOR CABINET - LONG ANCHOR IN METAL STUD

CHECKED S. TAUR

5-26-92

ALL FACILITIES

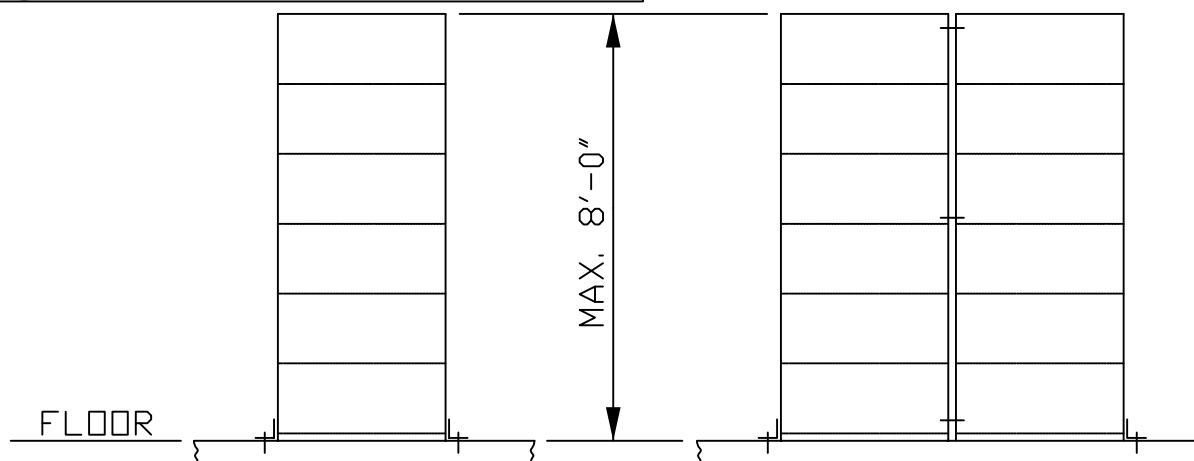
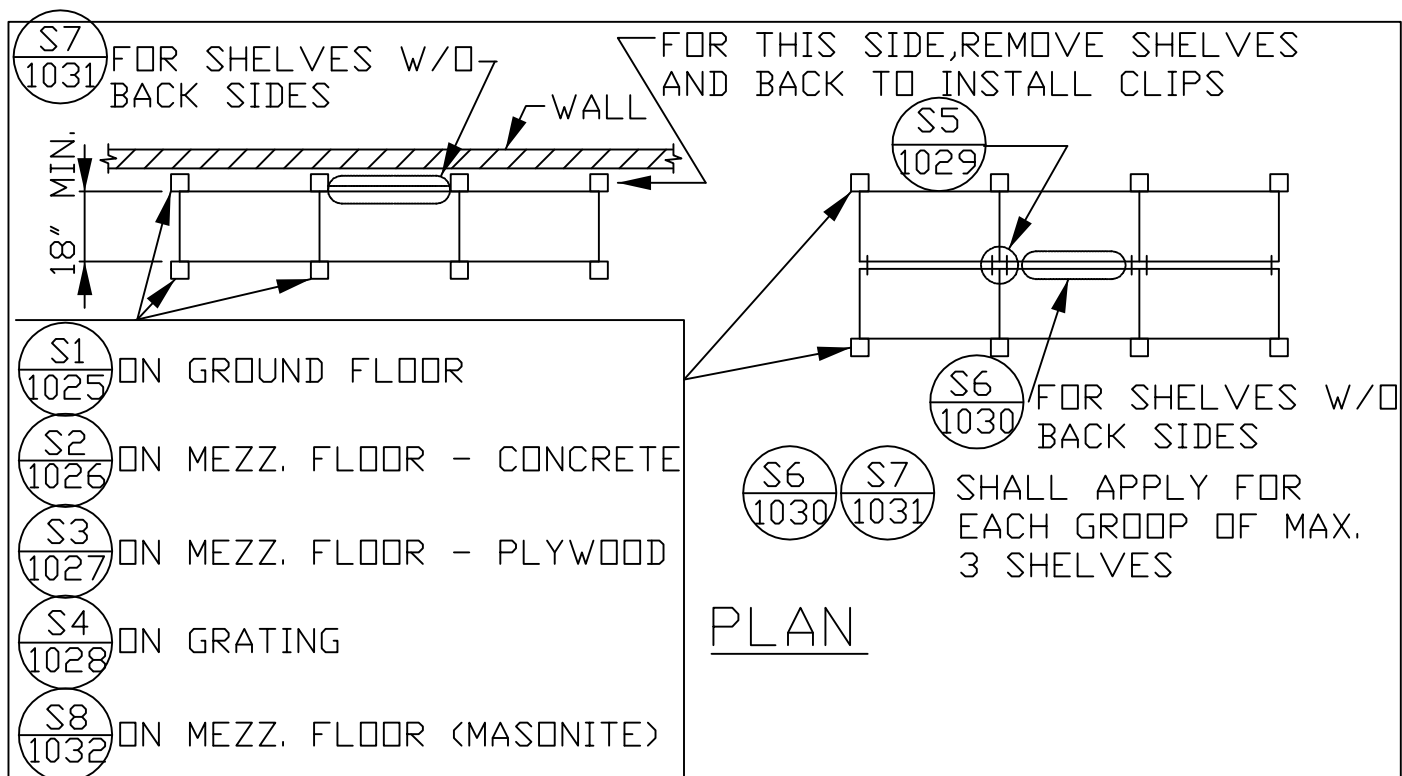
APPROVED

SCALE: NONE

CAD. ID. V2-1023.dwg

ER NO.

SHT. OF 1



CROSS SECTIONS

NOTE:

MAX. SHELF CAPACITY PER UNIT EQUALS:

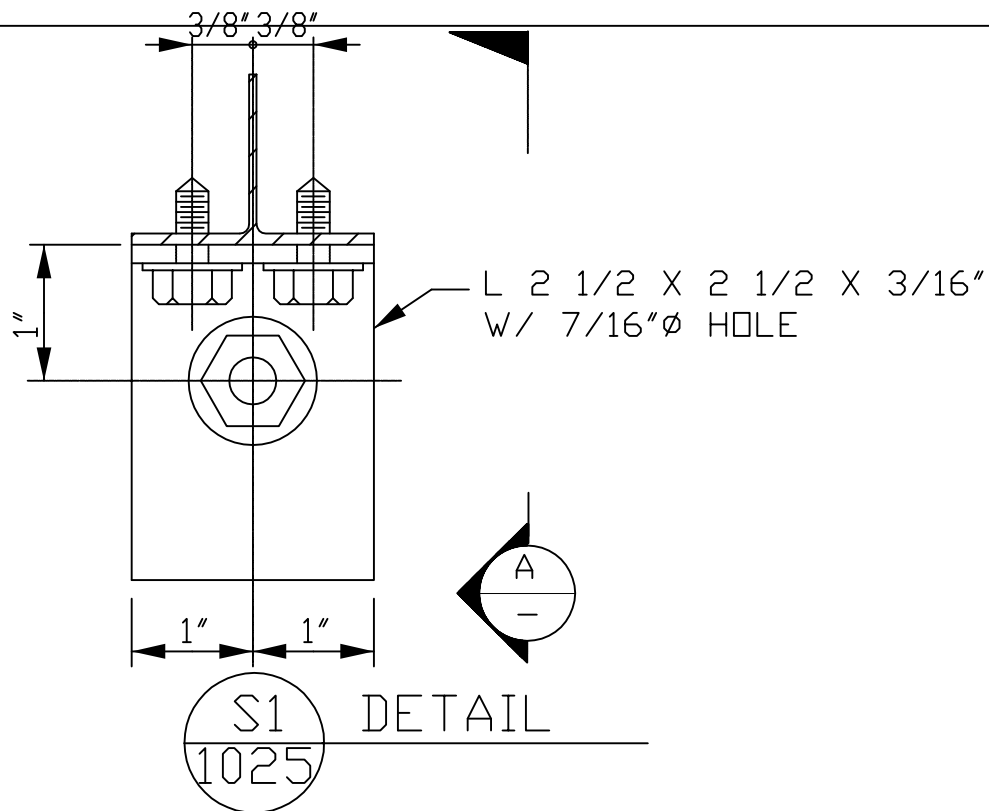
- 700# FOR GROUND FLOOR,

- 280# FOR MEZZANINE FLOOR,

OR MANUFACTURER LOAD SPECIFICATION WHICHEVER IS LESS.

SEE V2-1000 FOR SPECIFICATIONS

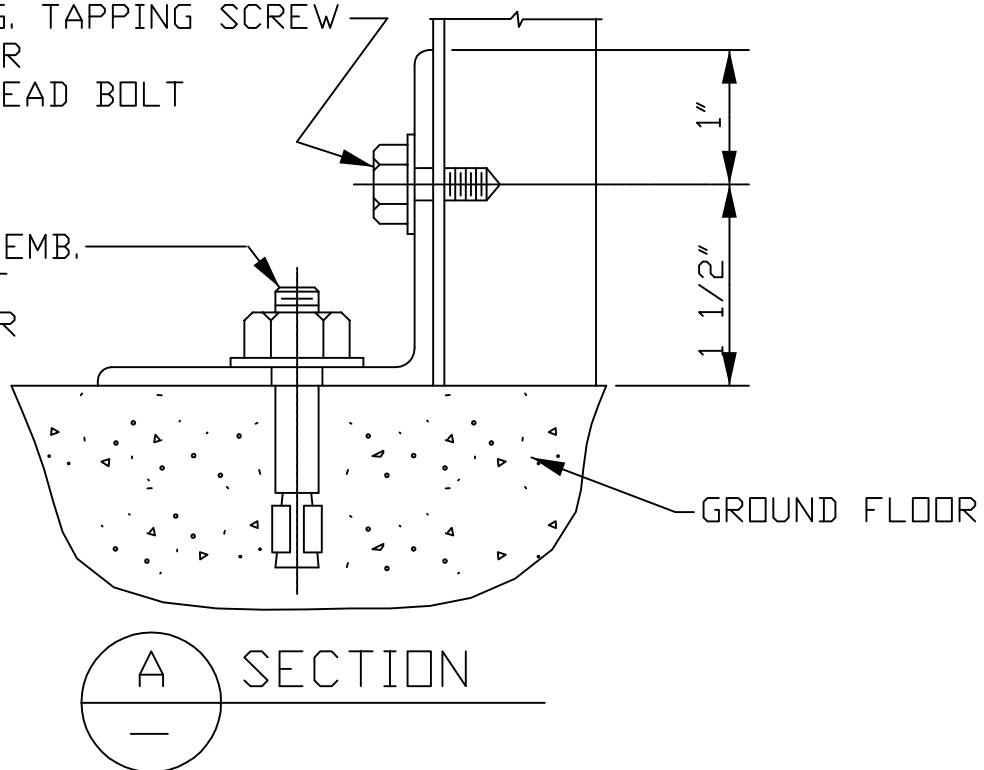
LOCKHEED MARTIN SPACE SYSTEMS		V2-1024	REV. 01
			DATE
FACILITY SERVICES / ORGN. 45-14		DRAWN JOHN WILLIAMS	10-15-90
DWG TITLE: SHELVES - SINGLE AND DOUBLE ROW		CHECKED S. TAUR	6-19-91
ALL FACILITIES		APPROVED	
SCALE: NONE	CAD. ID. V2-1024.dwg	ER NO.	SHT. OF 1



1/4"Ø X 3/4" LG. TAPPING SCREW
W/ FLAT WASHER
OR 1/4"Ø HEX. HEAD BOLT

SEE S5
1029

3/8"Ø X 2 1/2" EMB.
HILTI KWIK BOLT
W/ FLAT WASHER



LOCKHEED MARTIN
SPACE SYSTEMS

V2-1025

REV.

0

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN JOHN WILLIAMS

10-15-90

DWG TITLE: DETAIL FOR SHELVES - ANCHOR ON GROUND FLOOR

CHECKED S. TAUR

06-11-91

ALL FACILITIES

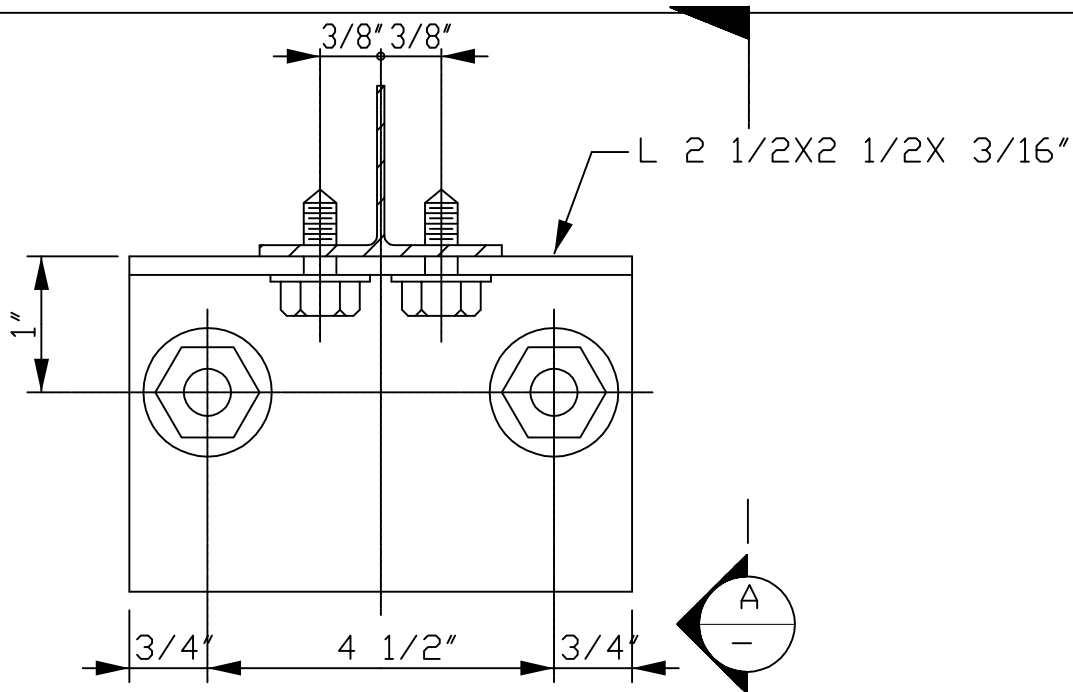
APPROVED

SCALE: NONE

CAD. ID. V2-1025.dwg

ER NO.

SHT. OF 1



S2
1026
DETAIL

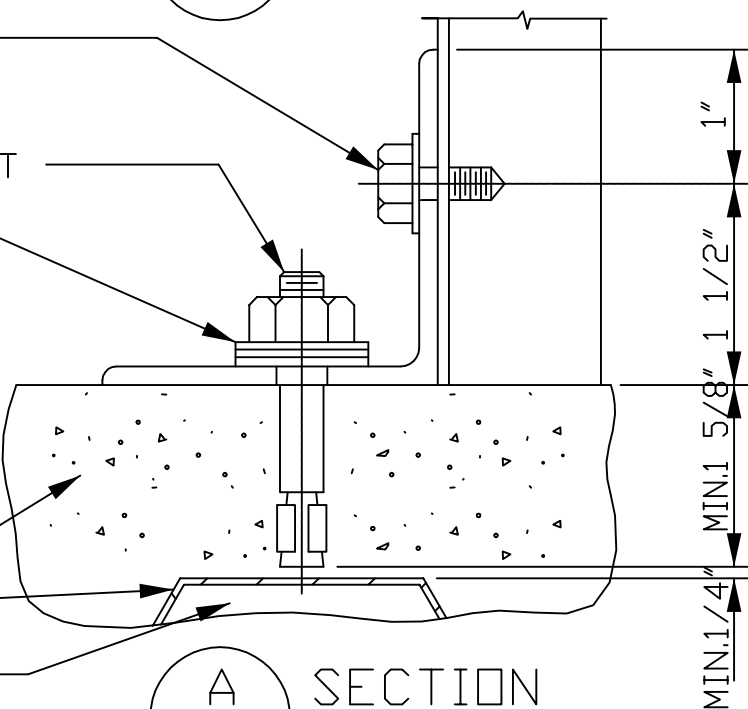
1/4"Ø X 3/4" LG.
TAPPING SCREW
W/ FLAT WASHER
3/8"Ø HILTI KWIK BOLT
FILL BENEATH NUT
W/ FLAT WASHERS
AS NEEDED

NOTE:
DRILL CAREFULLY,
DON'T PENETRATE INTO
ELECTRICAL RACEWAY.

MEZZANINE FLOOR

METAL DECK

UNDER FLOOR DUCT



A
SECTION

LOCKHEED MARTIN
SPACE SYSTEMS



V2-1026

REV.

0

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN JOHN WILLIAMS

10-15-90

DWG TITLE: DETAIL FOR SHELVES-ANCHOR ON MEZZ.(CONCRETE W/MT'L DECK)

CHECKED S. TAUR

06-11-91

ALL FACILITIES

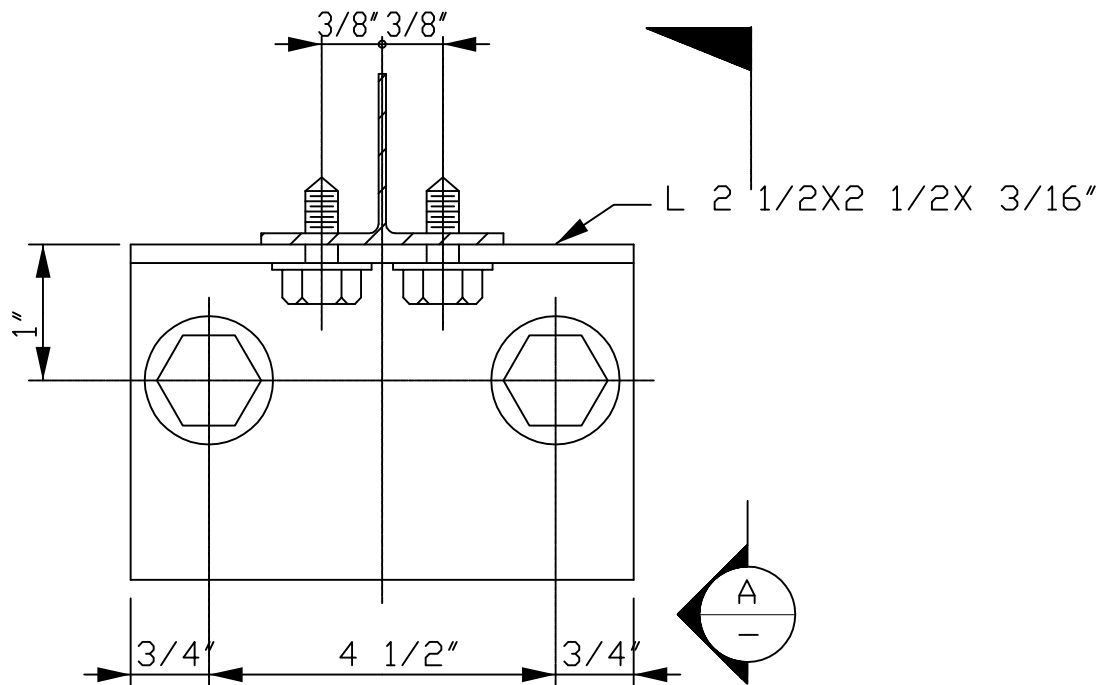
APPROVED

SCALE: NONE

CAD. ID. V2-1026.dwg

ER NO.

SHT. OF 1



S3
1027

DETAIL

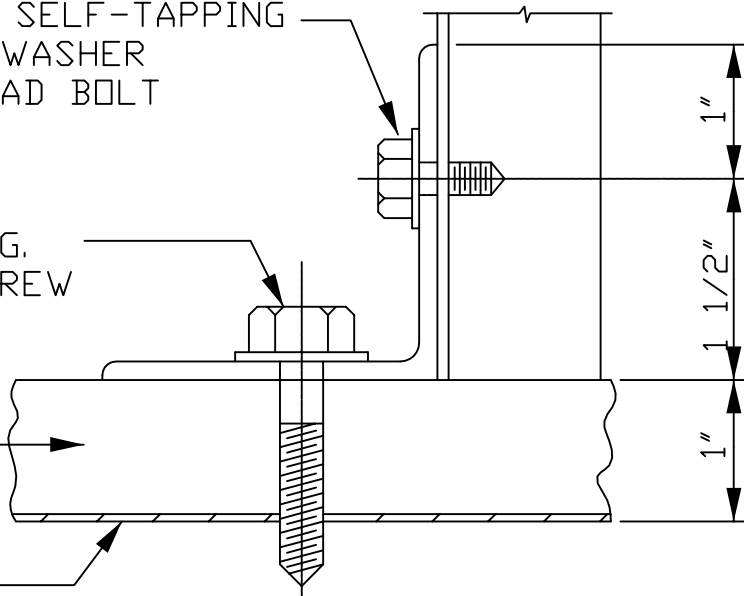
1/4"Ø X 3/4" LG. SELF-TAPPING
SCREW W/ FLAT WASHER
OR 1/4"Ø HEX. HEAD BOLT

SEE S5
1029

1/4"Ø X 1 3/4" LG.
SELF-TAPPING SCREW
W/ FLAT WASHER

(E) PLYWOOD

(E) METAL DECK



A
SECTION

LOCKHEED MARTIN
SPACE SYSTEMS



V2-1027

REV.

0

DATE

6/92

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN G.BRAUFMAN

DWG TITLE: DETAIL FOR SHELVES - ANCHOR ON MEZZ.PLYWOOD W/MTL DECK

CHECKED

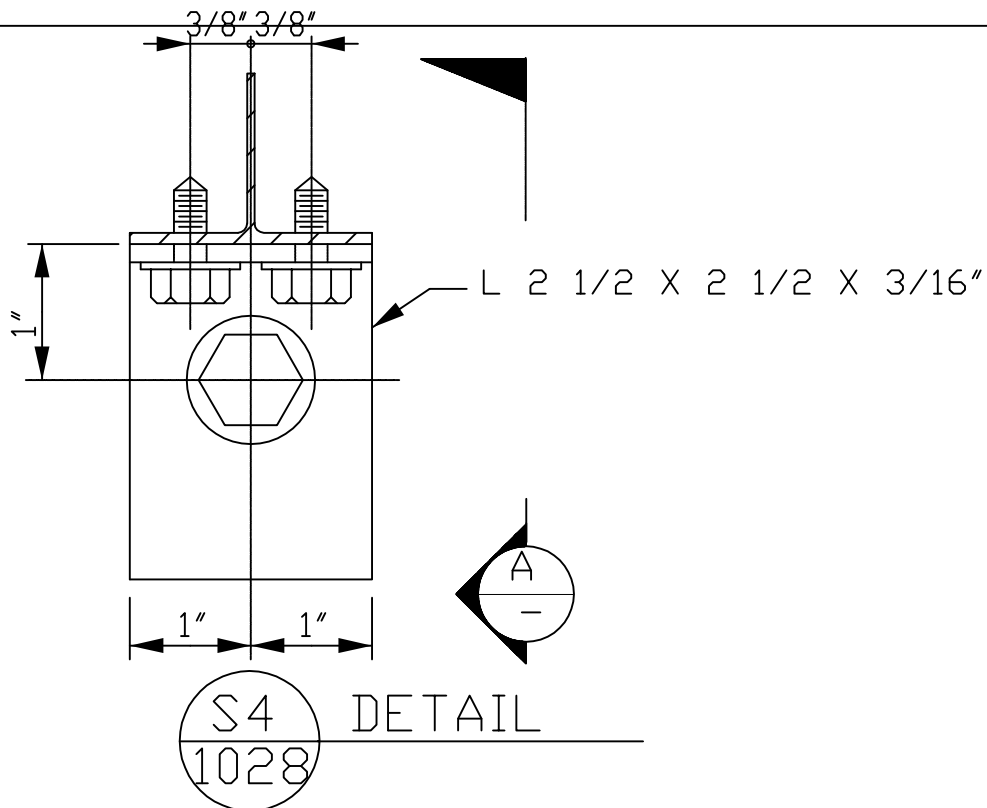
APPROVED

SCALE: NONE

CAD. ID. V2-1027.DWG

ER NO.

SHT.
OF 1



1/4"Ø X 3/4" LG. SELF-TAPPING
SCREW W/FLAT WASHER
OR 1/4"Ø HEX. HEAD BOLT

SEE S5
1029

3/8"Ø HEX. HEAD BOLT
W/ FLAT WASHER

GRATING BAR

FL WASHER 1/2" X 2" SQ.
W/ 7/16"Ø HOLE

A
— SECTION

LOCKHEED MARTIN
SPACE SYSTEMS



V2-1028

REV.

0

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN JOHN WILLIAMS

10-15-90

DWG TITLE: DETAIL FOR SHELVES - ANCHOR ON GRATING

CHECKED S. TAUR

06-11-91

ALL FACILITIES

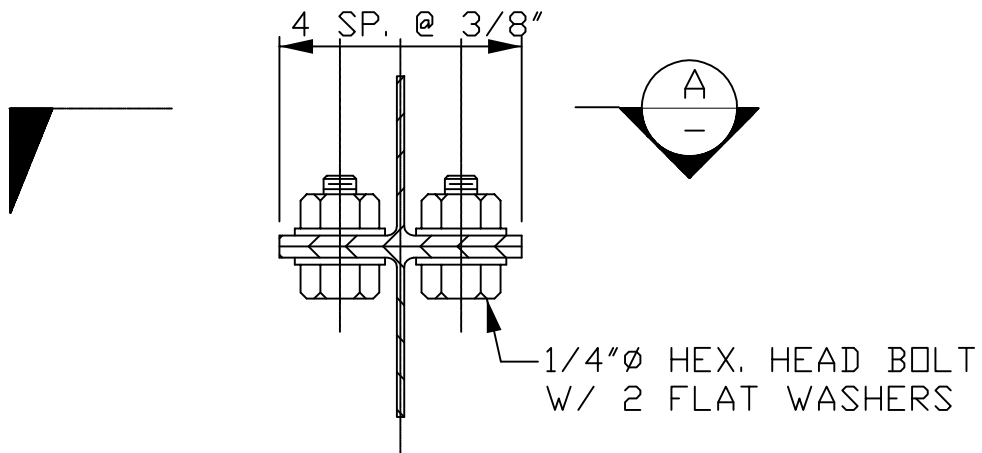
APPROVED

SCALE: NONE

CAD. ID. V2-1028.dwg

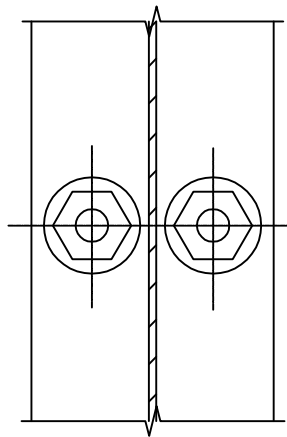
ER NO.

SHT.
OF 1



S5
1029

DETAIL



A
—

SECTION

LOCKHEED MARTIN
SPACE SYSTEMS



V2-1029

REV.	0
DATE	8-27-92
SHR. OF	1

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN JOHN WILLIAMS

DWG TITLE: DETAIL FOR SHELVES - JOINT BACK TO BACK W/ BOLTS

CHECKED S. TAUR

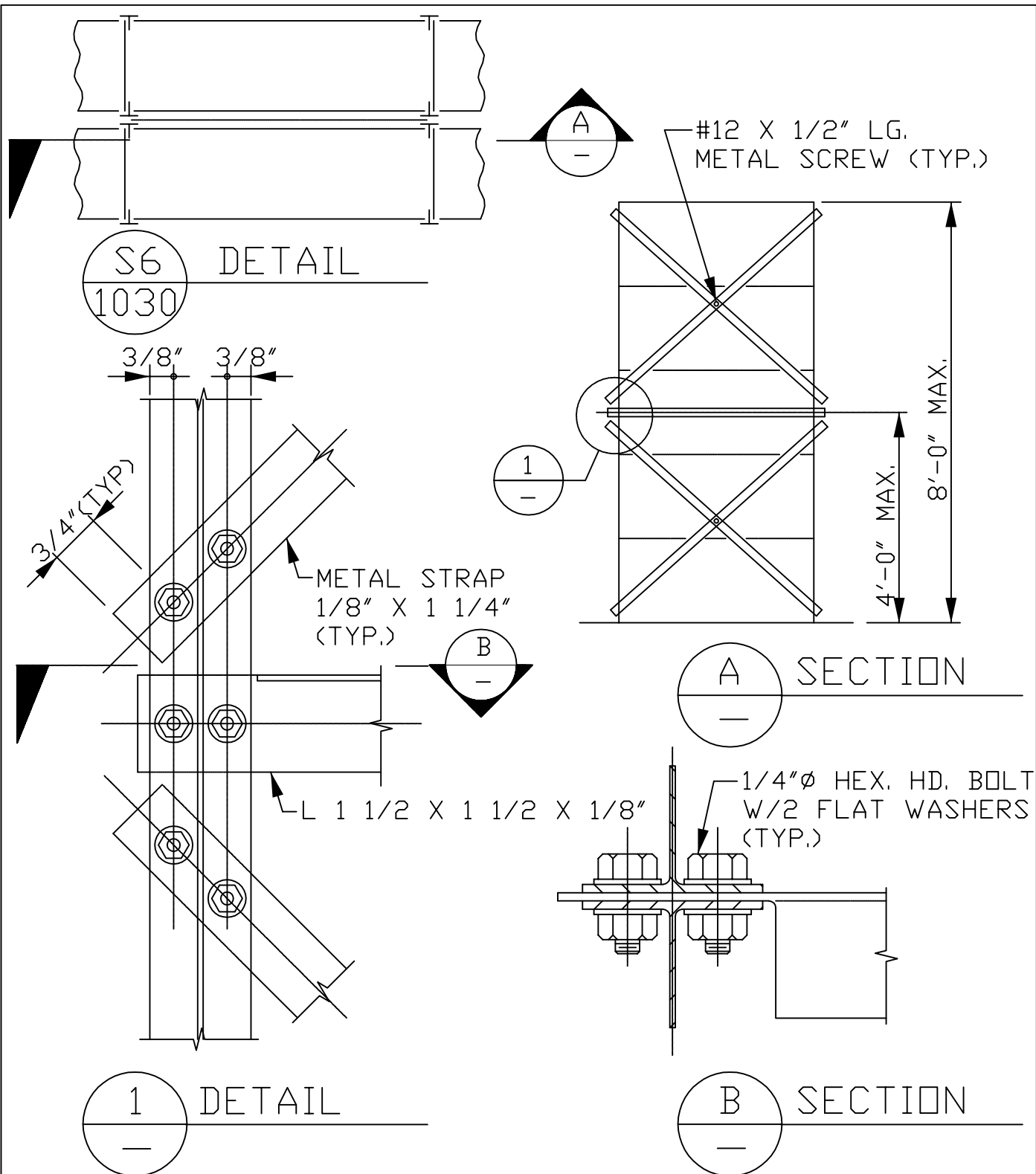
ALL FACILITIES

APPROVED

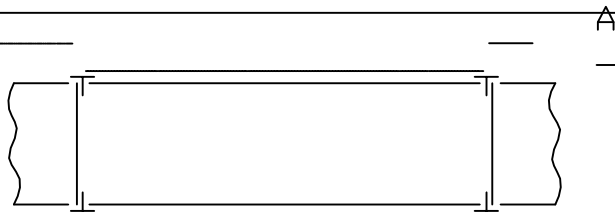
SCALE: NONE

CAD. ID. V2-1029.dwg

ER NO.

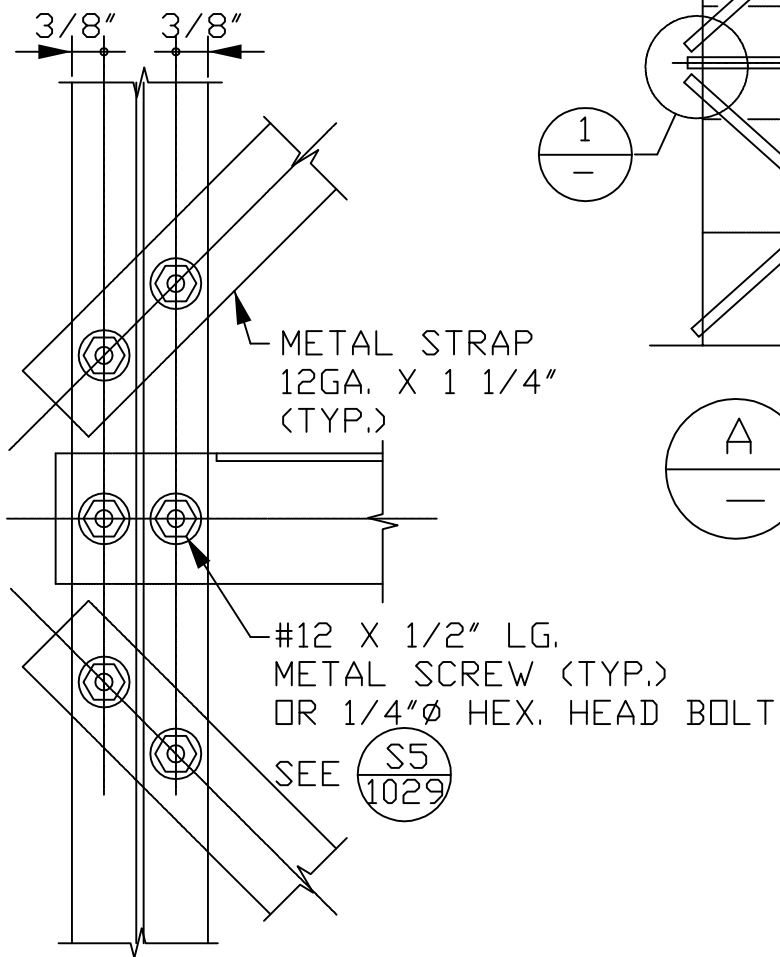


LOCKHEED MARTIN SPACE SYSTEMS		V2-1030	REV.
			0
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN JOHN WILLIAMS	10-15-90
DWG TITLE: DETAIL FOR SHELVES-DOUBLE ROW-LONGITUDINAL BRACING		CHECKED S. TAUR	06-11-91
ALL FACILITIES		APPROVED	
SCALE: NONE	CAD. ID. V2-1030.dwg	ER NO.	SHT. OF 1



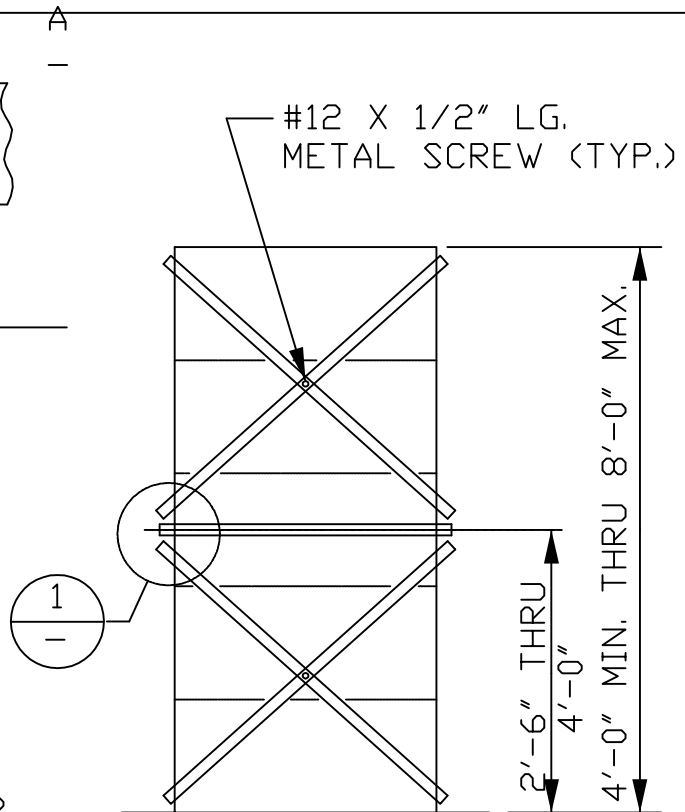
S7
1031

DETAIL



1
—

DETAIL



A
—

ELEVATION

LOCKHEED MARTIN
SPACE SYSTEMS



V2-1031

REV.

0

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN JOHN WILLIAMS

10-15-90

DWG TITLE: DETAIL FOR SHELVES-SINGLE ROW-LONGITUDINAL BRACING

CHECKED S. TAUR

06-11-91

ALL FACILITIES

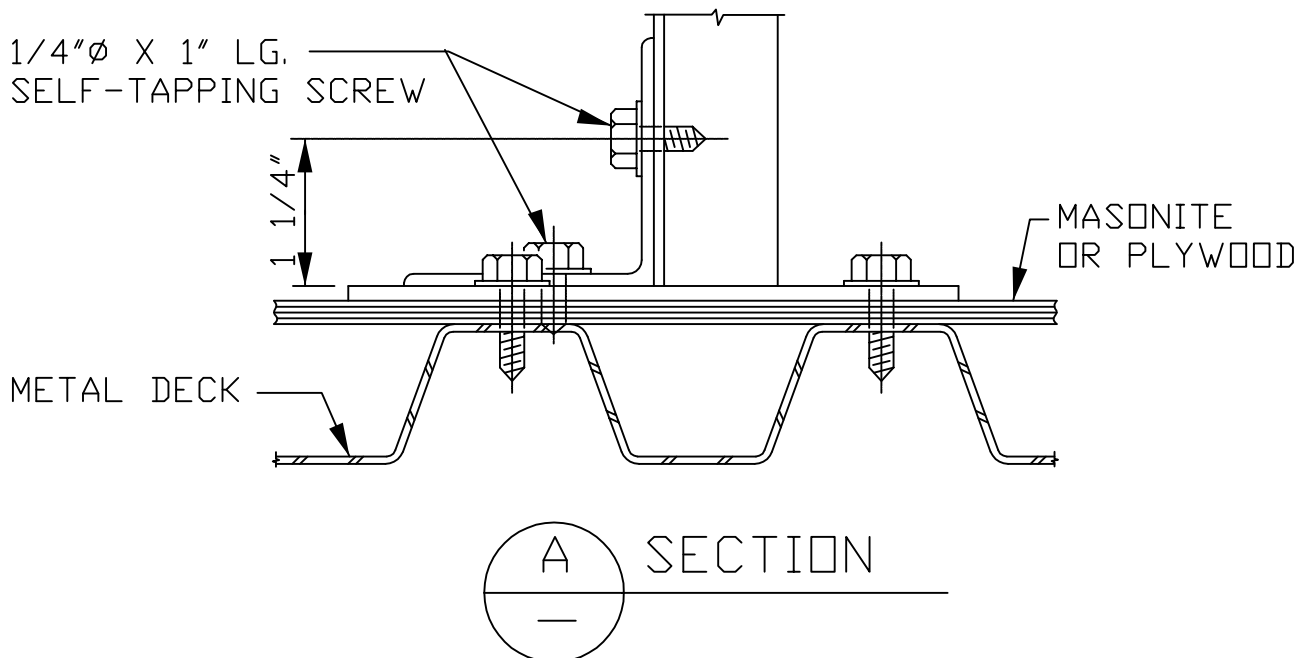
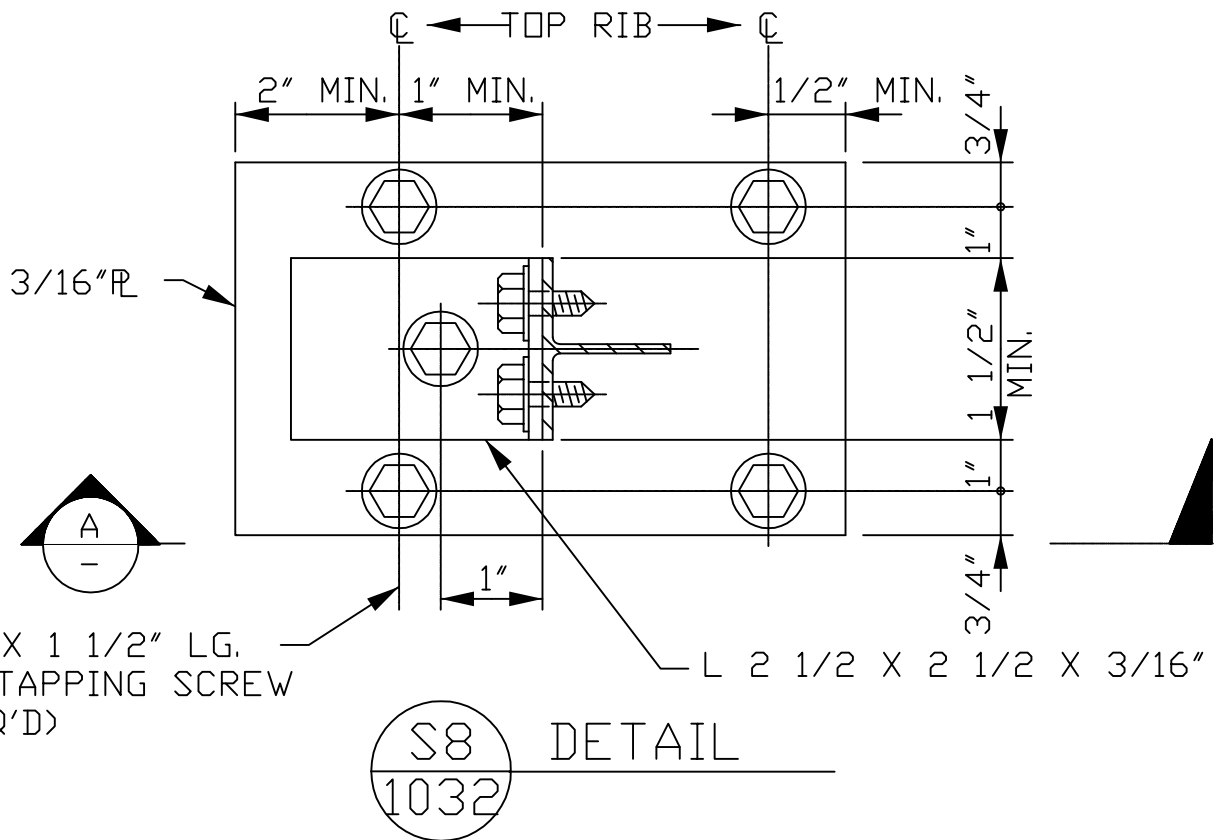
APPROVED

SCALE: NONE

CAD. ID. V2-1031.dwg

ER NO.

SHT.
OF 1



LOCKHEED MARTIN
SPACE SYSTEMS



V2-1032

REV.

0

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN JOHN WILLIAMS

10-15-90

DWG TITLE: DETAIL FOR SHELVES-ANCHOR ON MEZZ./UPPER FL.(MASONITE ON METAL DECK) S. TAUR

APPROVED

06-11-91

ALL FACILITIES

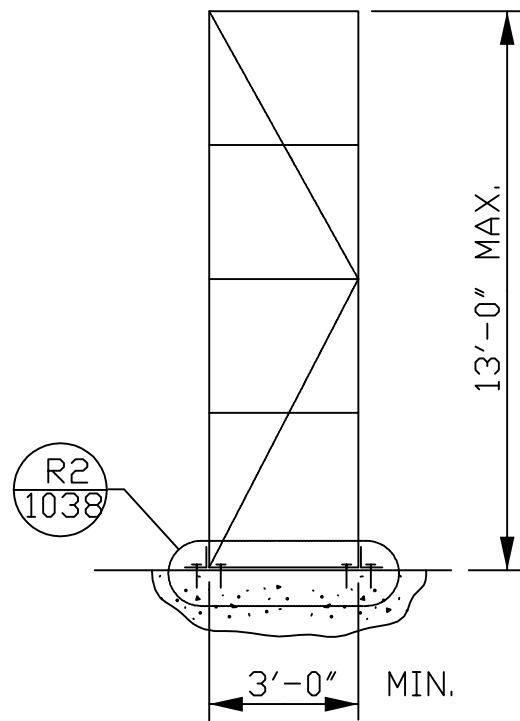
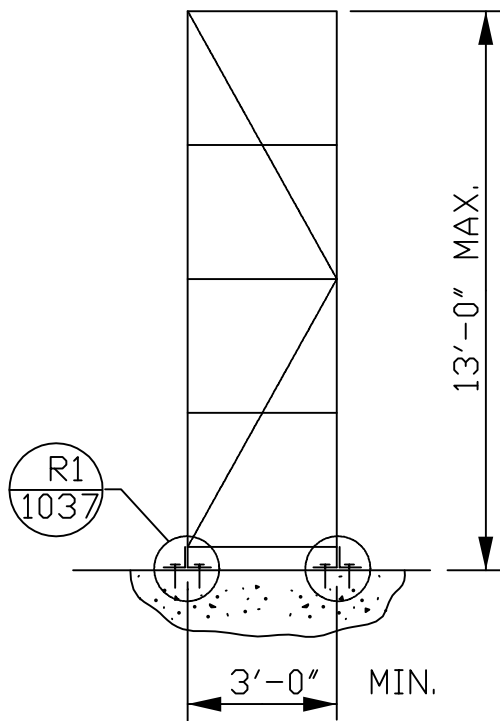
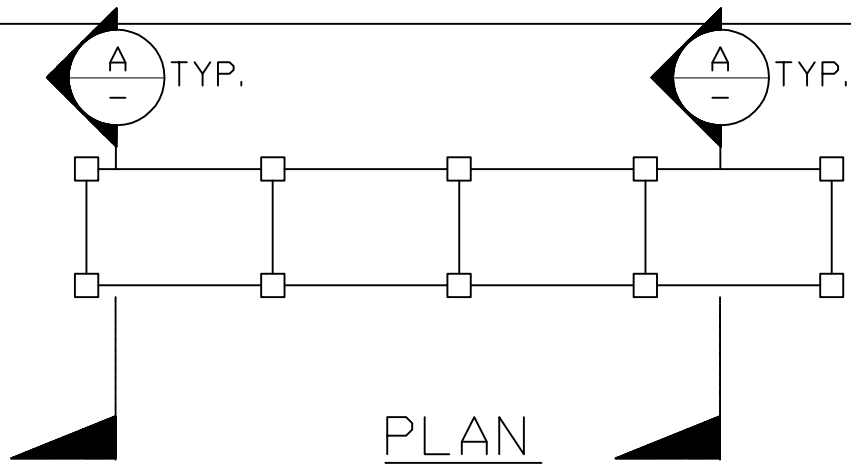
APPROVED

SCALE: NONE

CAD. ID. V2-1032.dwg

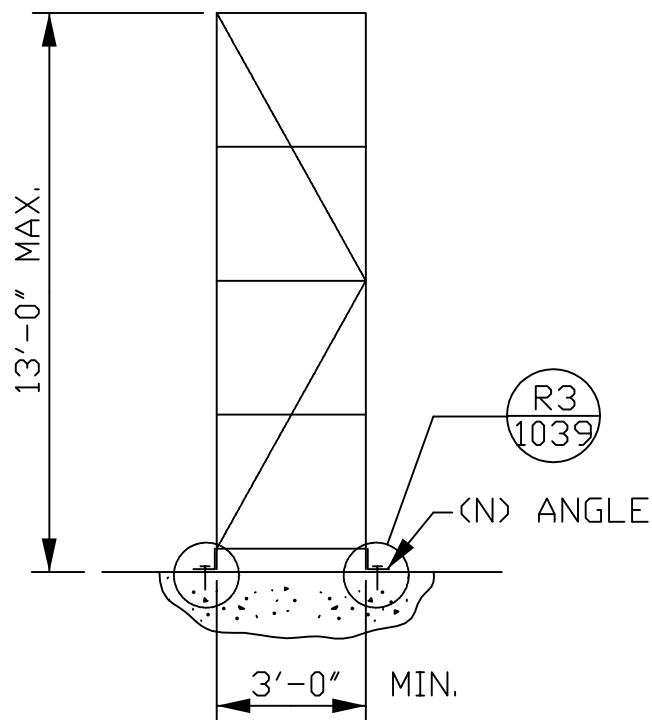
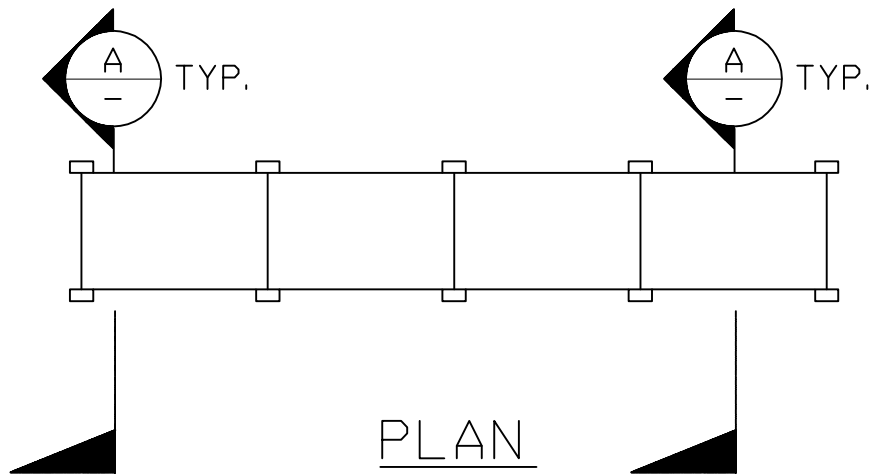
ER NO.

SHT. OF 1



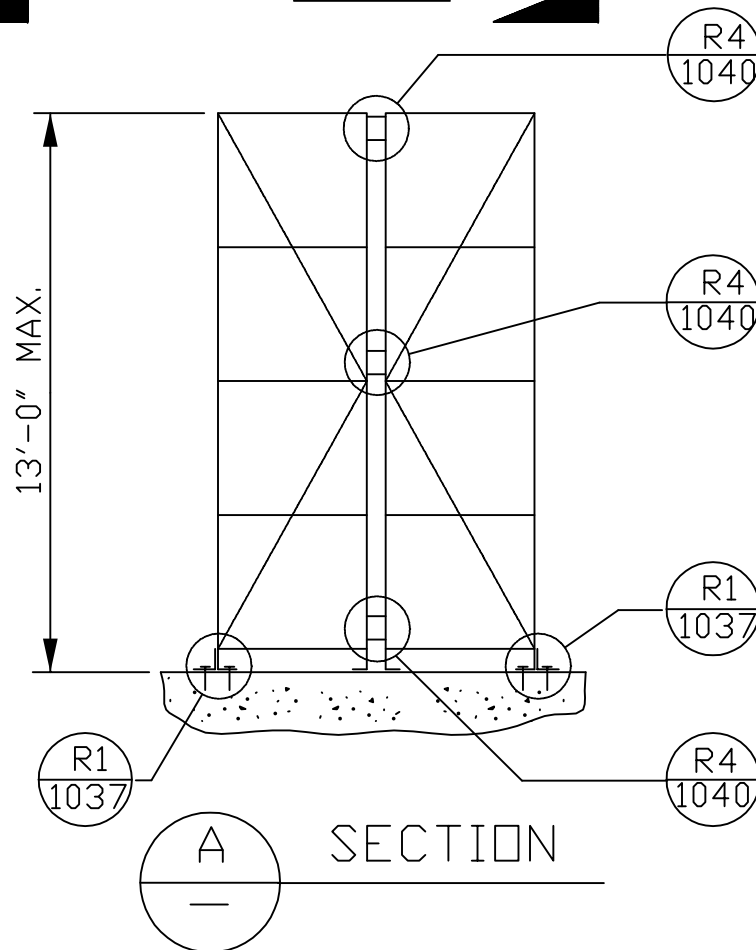
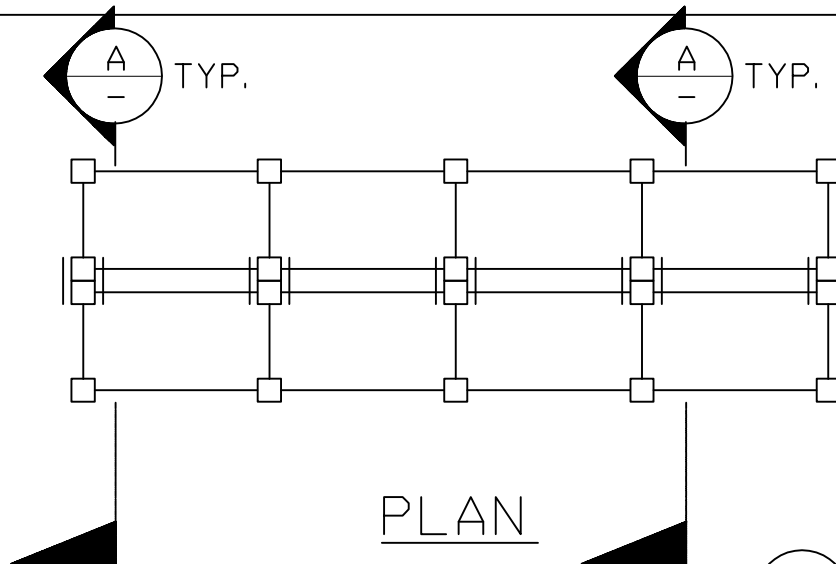
NOTE:
 MAX. STORAGE RACK CAPACITY 800# PER SHELF OR MANUFACTURER
 LOAD SPECIFICATION WHICHEVER IS LESS
 SEE V2-1000 FOR SPECIFICATIONS

LOCKHEED MARTIN SPACE SYSTEMS		V2-1033	REV. 0
			DATE
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN JOHN WILLIAMS	10-15-90
DWG TITLE: STORAGE RACKS - SINGLE ROW ON GROUND FLOOR W/EXISTING BASE PLATES		DESIGNED S. TAUR	06-11-91
ALL FACILITIES		APPROVED	
SCALE: NONE	CAD. ID. V2-1033.dwg	ER NO.	SHT. OF 1



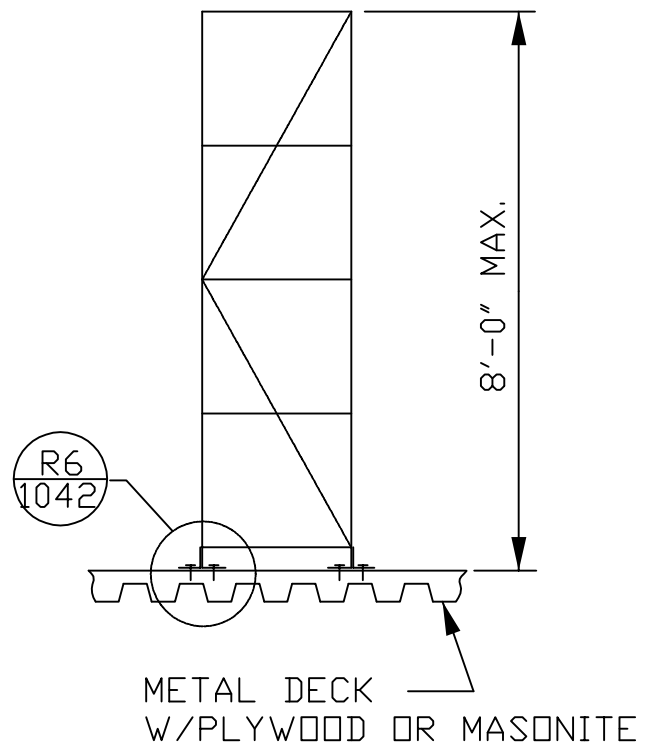
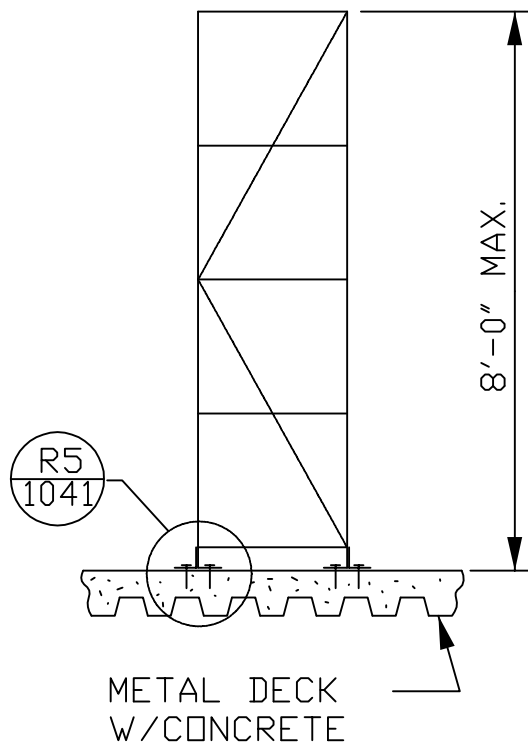
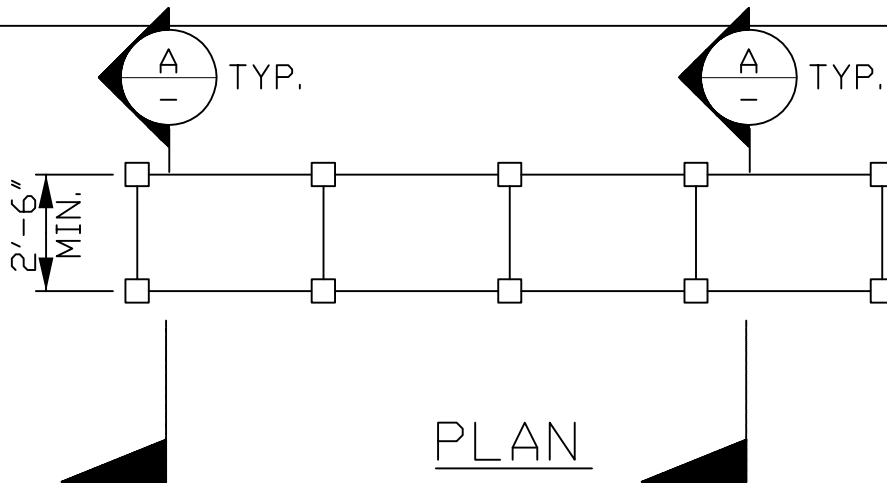
NOTE:
 MAX. STORAGE RACK CAPACITY 800# PER SHELF OR MANUFACTURER
 LOAD SPECIFICATION WHICHEVER IS LESS
 SEE V2-1000 FOR SPECIFICATIONS

LOCKHEED MARTIN SPACE SYSTEMS		V2-1034	REV.
			0
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN JOHN WILLIAMS	10-15-90
DWG TITLE: STORAGE RACKS - SINGLE ROW ON GROUND FLOOR W/ NEW		CHECKED S. TAUR	06-11-91
ANGLES - ALL FACILITIES		APPROVED	
SCALE: NONE	CAD. ID. V2-1034.dwg	ER NO.	SHT. OF 1



NOTE:
 MAX. STORAGE RACK CAPACITY 800# PER SHELF OR MANUFACTURER
 LOAD SPECIFICATION WHICHEVER IS LESS
 SEE V2-1000 FOR SPECIFICATIONS

LOCKHEED MARTIN SPACE SYSTEMS		V2-1035	REV.
			0
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN JOHN WILLIAMS	10-15-90
DWG TITLE: STORAGE RACKS - DOUBLE ROW ON GROUND FLOOR		CHECKED S. TAUR	06-11-91
ALL FACILITIES		APPROVED	
SCALE: NONE	CAD. ID. V2-1035.dwg	ER NO.	SHT. OF 1

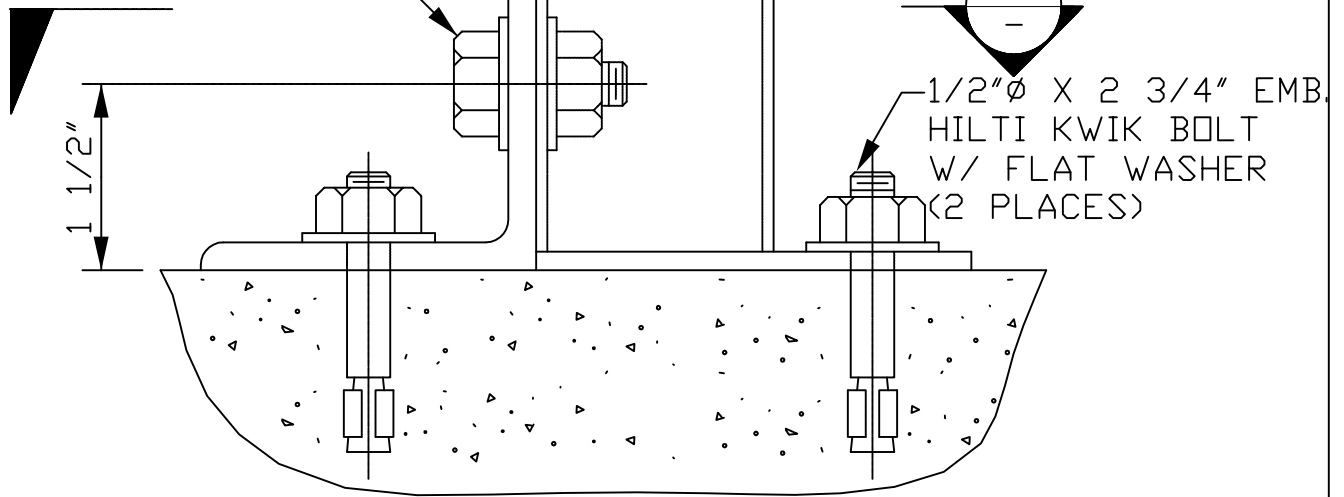


NOTE:
 MAX. STORAGE RACK CAPACITY 120# PER SHELF OR MANUFACTURER
 LOAD SPECIFICATION WHICHEVER IS LESS
 SEE V2-1000 FOR SPECIFICATIONS

LOCKHEED MARTIN SPACE SYSTEMS		V2-1036	REV. 0
			DATE
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN JOHN WILLIAMS	10-15-90
DWG TITLE: STORAGE RACKS - SINGLE ROW ON MEZZANINE FLOOR		CHECKED S. TAUR	06-11-91
ALL FACILITIES		APPROVED	
SCALE: NONE	CAD. ID. V2-1036.dwg	ER NO.	SHT. OF 1

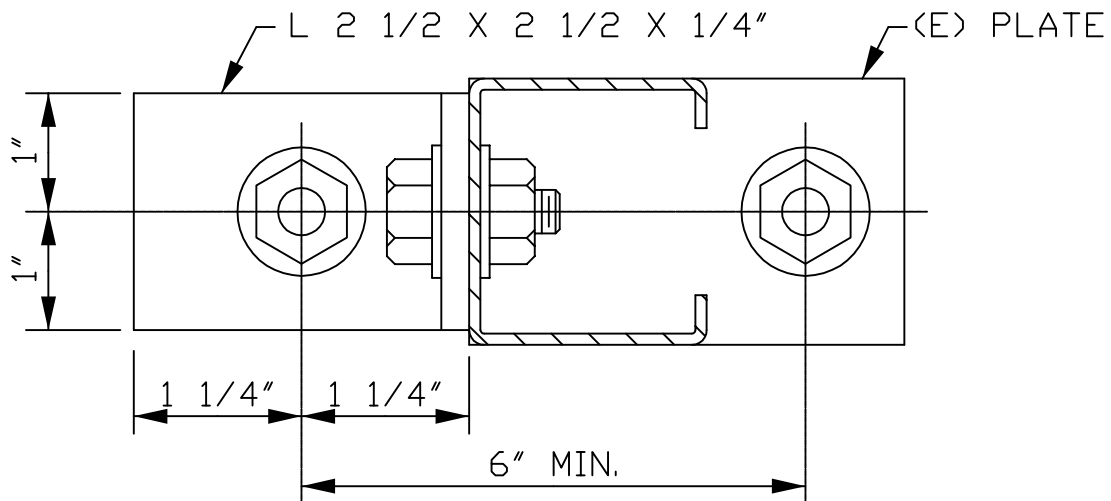
AS AN OPTION
TO 1/2"Ø M.B.
WELD 3 SIDES

1/2"Ø MACHINE BOLT
W/ FLAT WASHERS



R1
1037

DETAIL



A
—

SECTION

LOCKHEED MARTIN
SPACE SYSTEMS



V2-1037

REV.	0
DATE	
DRAWN	JOHN WILLIAMS
CHECKED	S. TAUR
APPROVED	
ER NO.	
SHT. OF	1

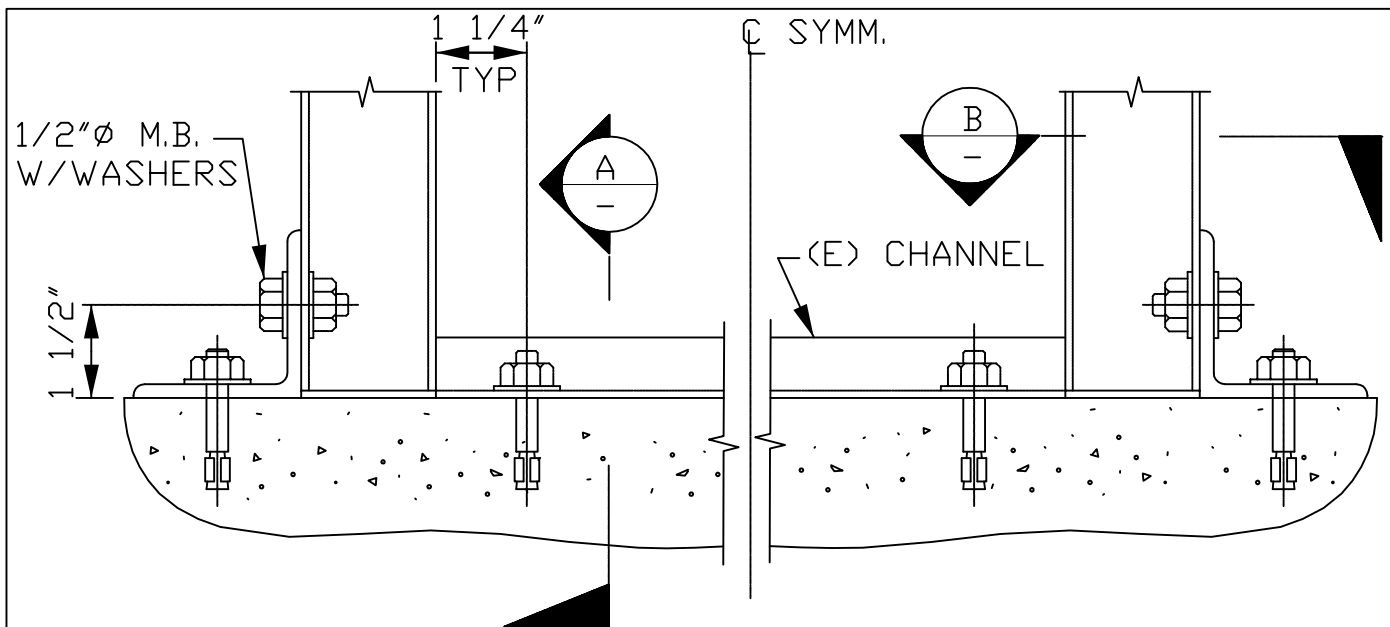
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DWG TITLE: DETAIL FOR STORAGE RACKS - ANCHOR ON GROUND FL. W/(E)

BASE PLATE - ALL FACILITIES

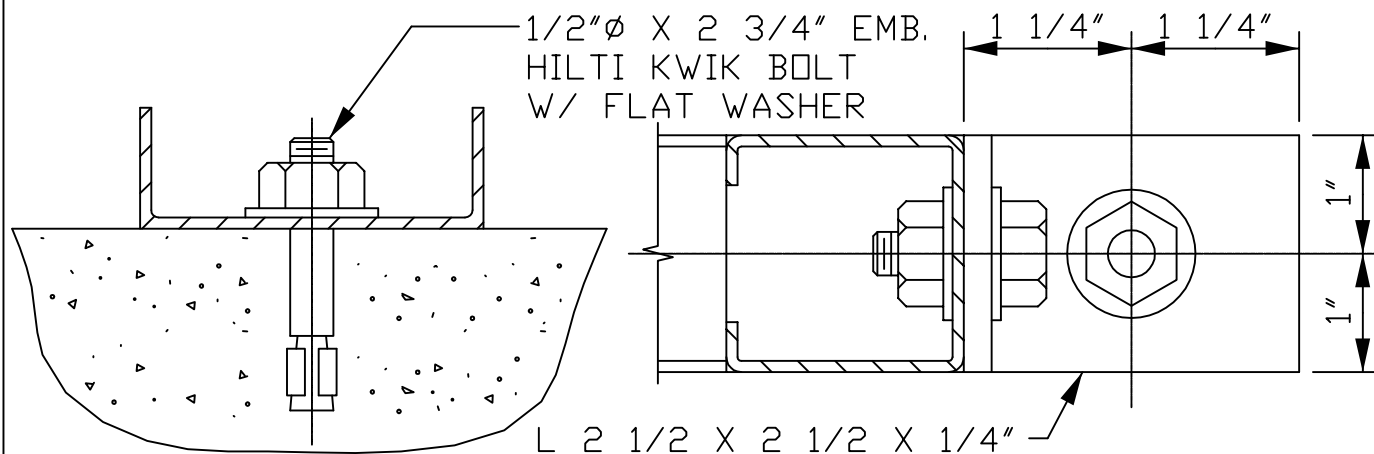
SCALE: NONE

CAD. ID. V2-1037.dwg



R2
1038

DETAIL



A SECTION

B SECTION

LOCKHEED MARTIN
SPACE SYSTEMS



V2-1038

REV.

0

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN JOHN WILLIAMS

10-15-90

DWG TITLE: DETAIL FOR STORAGE RACKS - ANCHOR ON GROUND FL. W/(E)

CHECKED S. TAUR

06-11-91

BASE CHANNEL - ALL FACILITIES

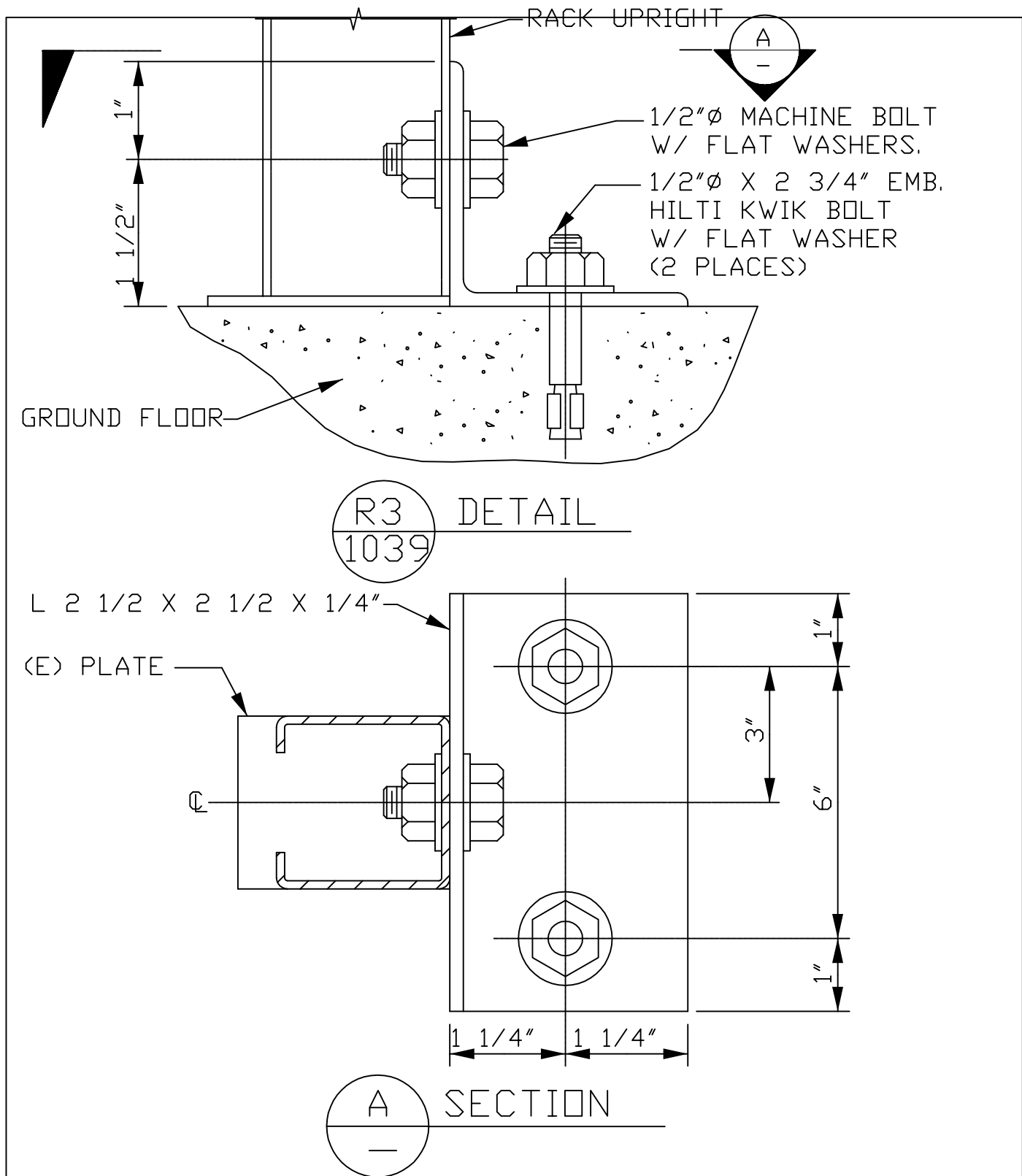
APPROVED

SCALE: NONE

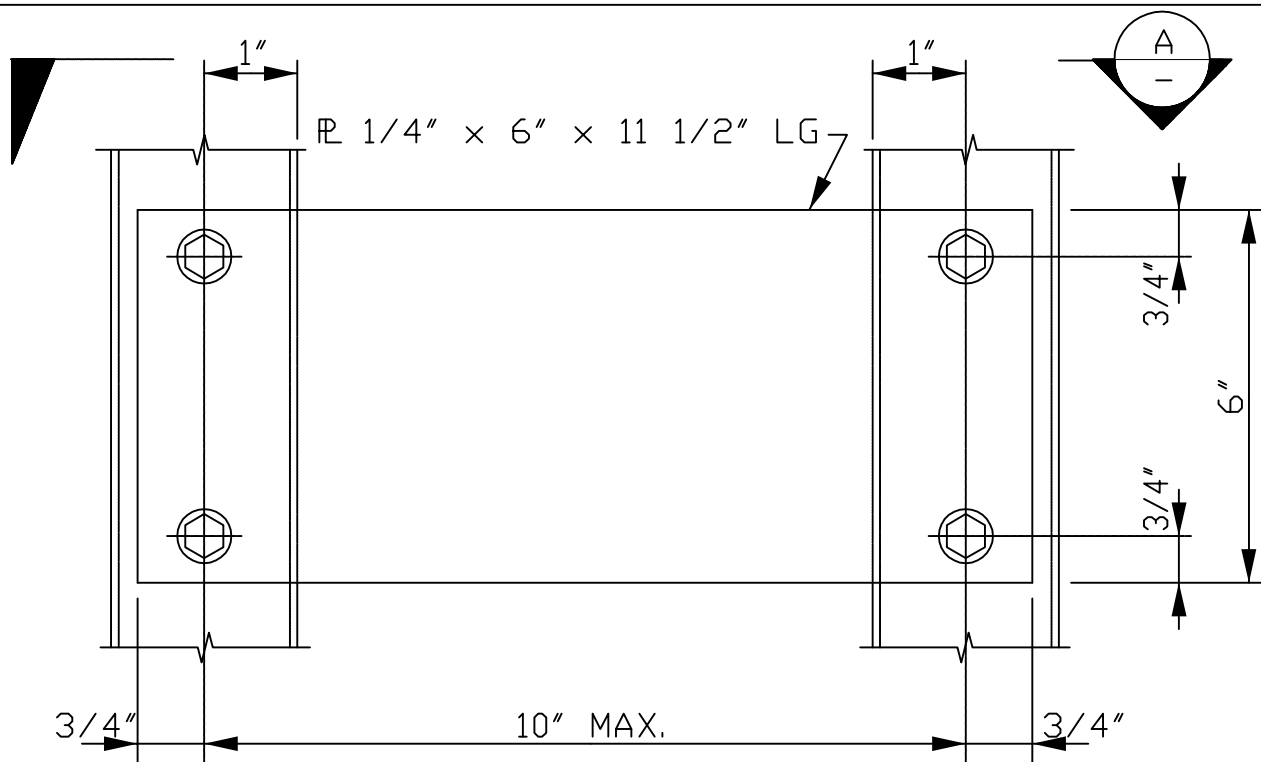
CAD. ID. V2-1038.dwg

ER NO.

SHT. OF 1

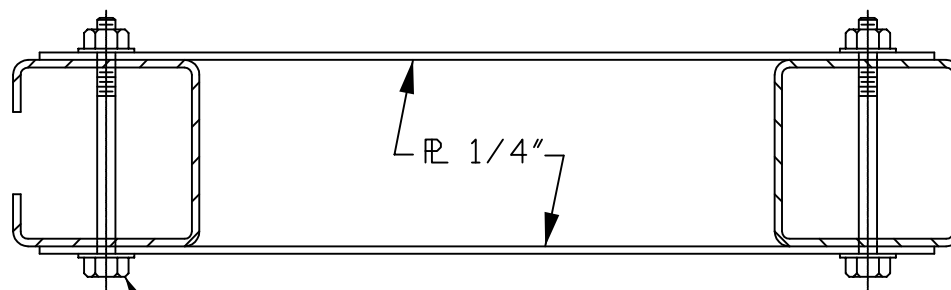


LOCKHEED MARTIN SPACE SYSTEMS		V2-1039		REV.
				0
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	JOHN WILLIAMS	10-15-90
DWG TITLE: DETAIL FOR STORAGE RACKS - ANCHOR ON GROUND FL. W/(N)		CHECKED	S. TAUR	06-11-91
ANGLE - ALL FACILITIES		APPROVED		
SCALE:	NONE	CAD. ID.	V2-1039.dwg	SHT. OF 1



R4
1040

DETAIL



1/2"Ø MACHINE BOLT
W/ FLAT WASHER
(TYP. 4 PLACES)

A
—

SECTION

LOCKHEED MARTIN
SPACE SYSTEMS



V2-1040

REV.

0

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN JOHN WILLIAMS

10-15-90

DWG TITLE: DETAIL FOR STORAGE RACKS - JOINT W/ PLATE & TAPPING

CHECKED S. TAUR

06-11-91

SCREWS - ALL FACILITIES

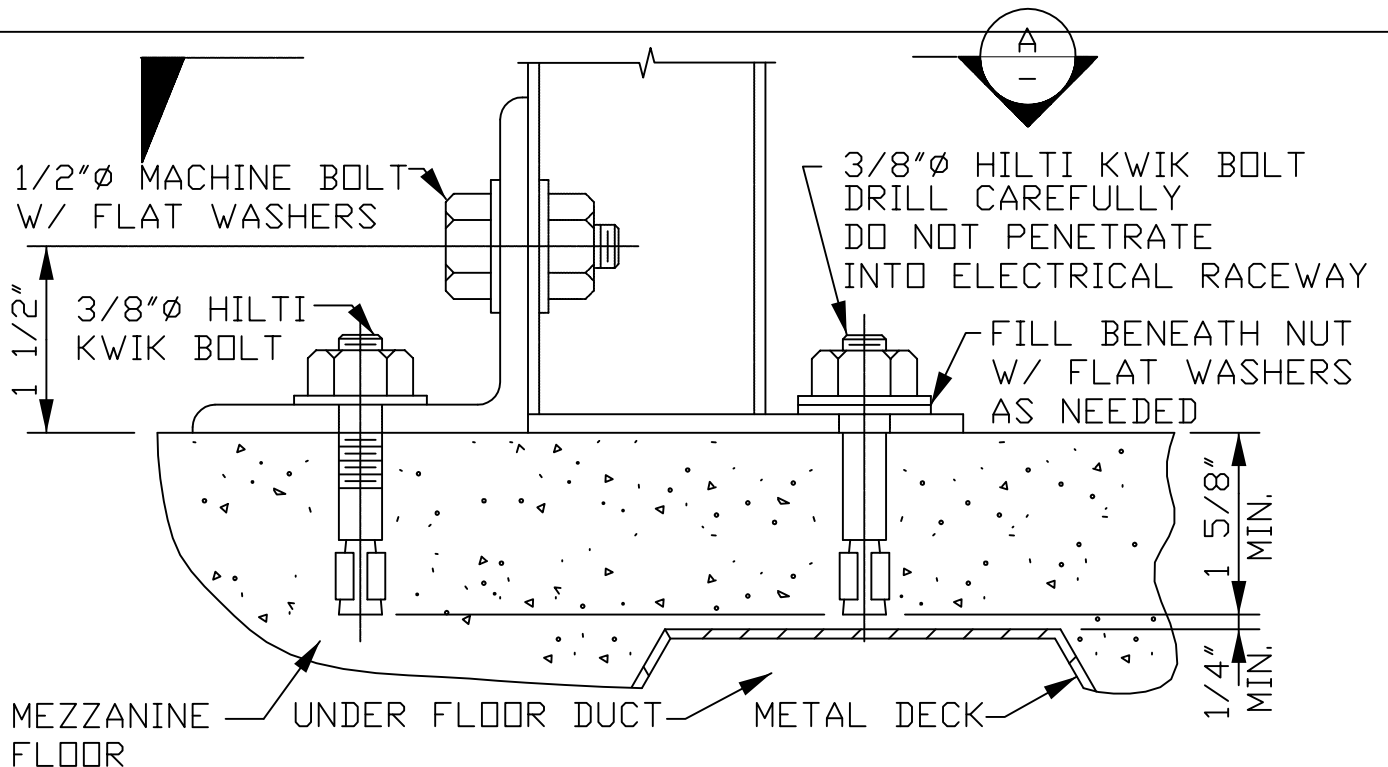
APPROVED

SCALE: NONE

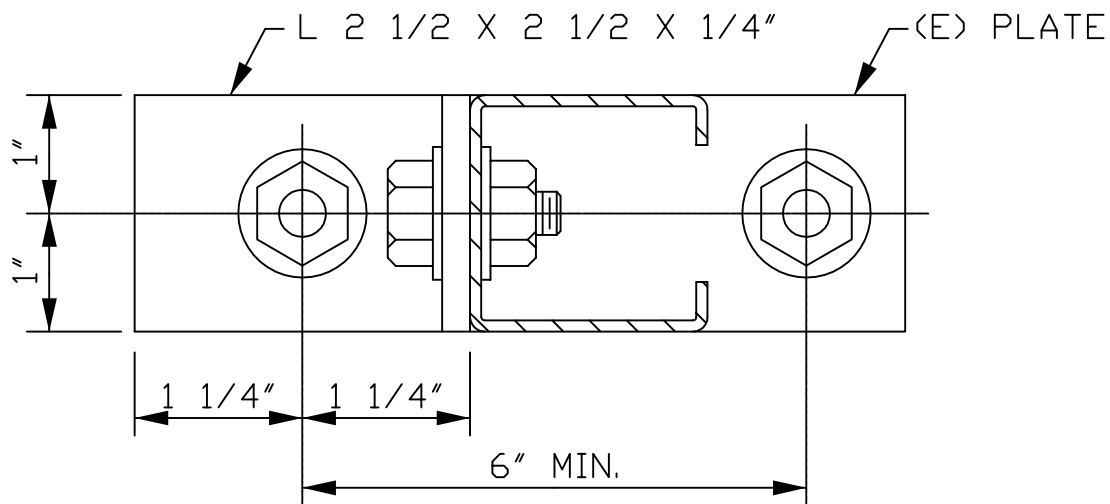
CAD. ID. V2-1040.dwg

ER NO.

SHT. OF 1



R5 DETAIL
1041



A SECTION

LOCKHEED MARTIN
SPACE SYSTEMS



V2-1041

REV.

0

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN JOHN WILLIAMS

10-15-90

DWG TITLE: DETAIL FOR STORAGE RACKS - ANCHOR ON MEZZANINE FL.

CHECKED S. TAUR

06-11-91

CONCRETE - ALL FACILITIES

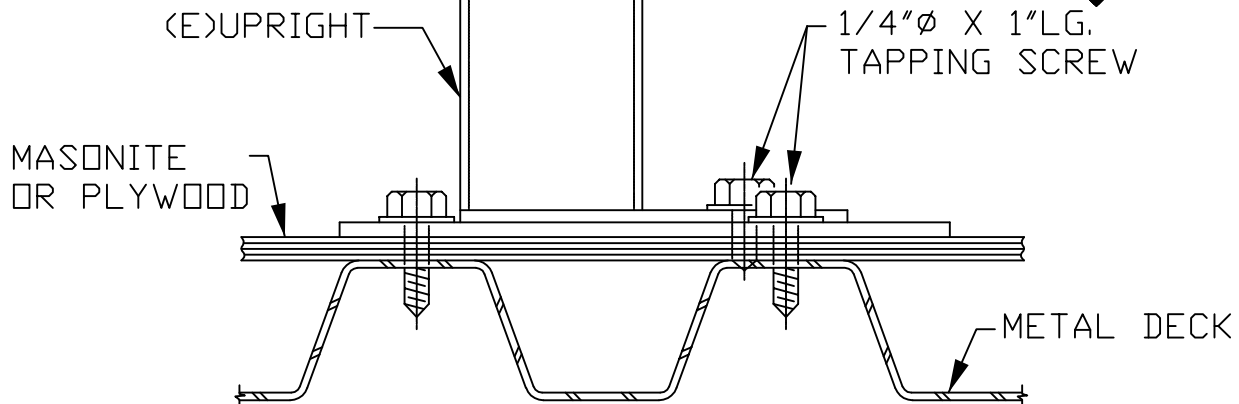
APPROVED

SCALE: NONE

CAD. ID. V2-1041.dwg

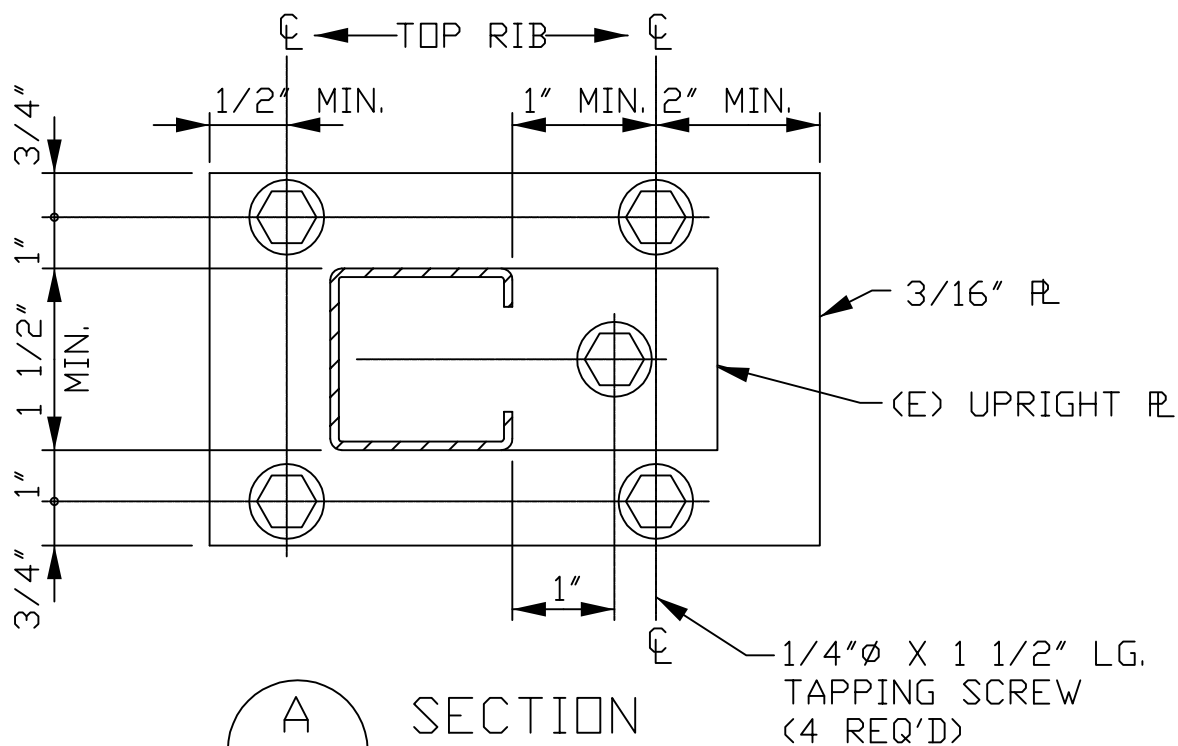
ER NO.

SHT. OF 1



R6
1042

DETAIL



A

SECTION

SPACE SYSTEMS
SPACE SYSTEMS



V2-1042

REV.

0

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN JOHN WILLIAMS

10-15-90

DWG TITLE: DETAIL FOR RACKS ON MEZZ./UPPER FL.(MASONITE OR PYWD ON METAL DECK)

S. TAUR

06-11-91

ALL FACILITIES

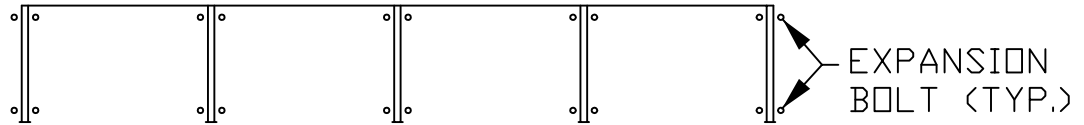
APPROVED

SCALE: NONE

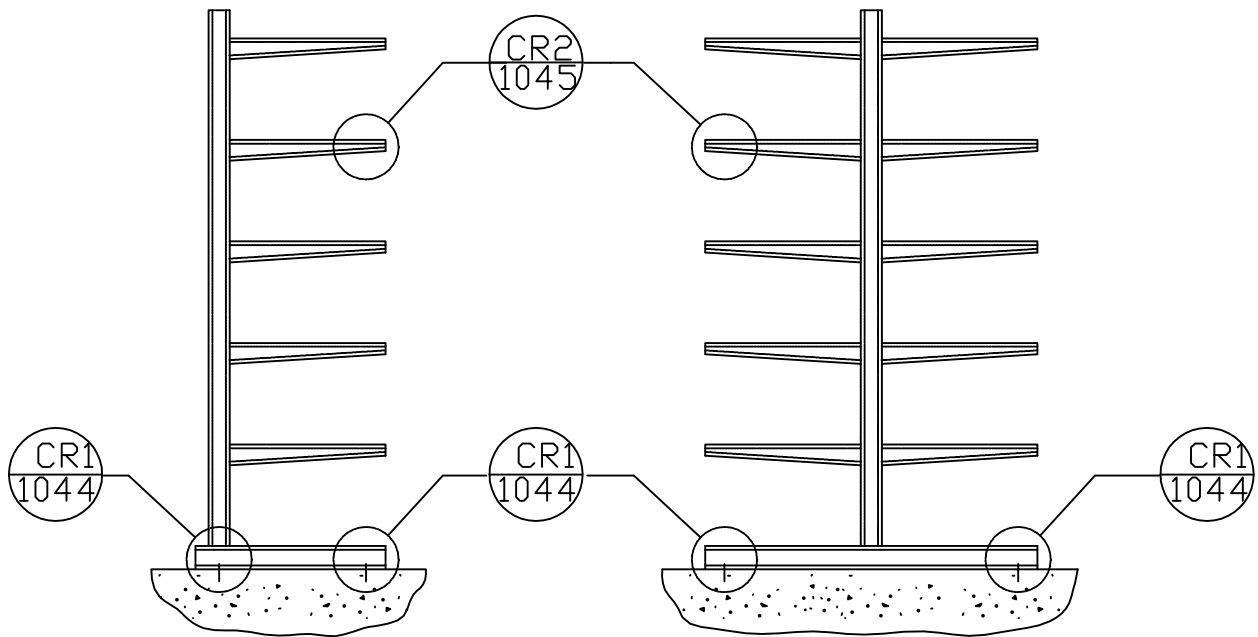
CAD. ID. V2-1042.dwg

ER NO.

SHT. OF 1



PLAN



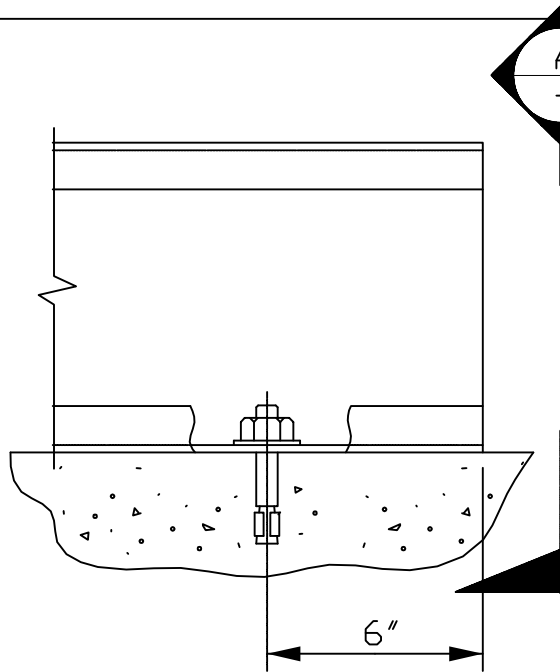
SINGLE ARM

DOUBLE ARM

SECTIONS

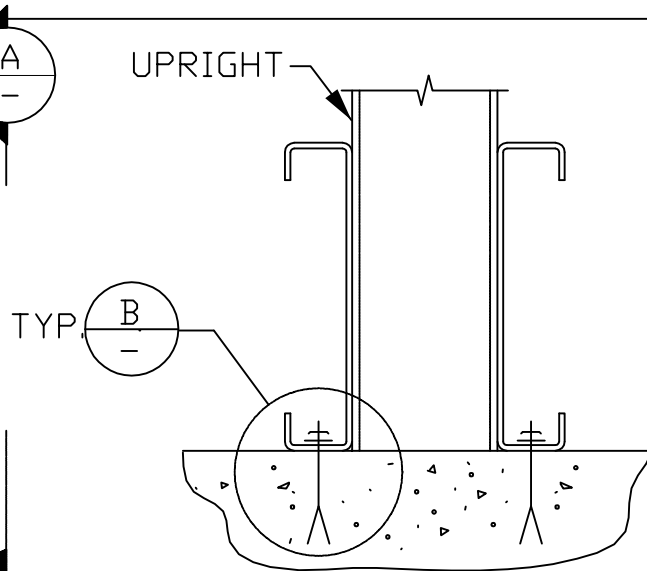
NOTE:
FOR MAXIMUM MOMENT CAPACITY PER UPRIGHT
CONSULT A STRUCTURAL ENGINEER
SEE V2-1000 FOR SPECIFICATIONS

LOCKHEED MARTIN SPACE SYSTEMS		V2-1043		REV.
				0
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN	JOHN WILLIAMS	DATE
DWG TITLE: CANTILEVER RACK - SINGLE AND DOUBLE ARM		CHECKED	S. TAUR	10-15-90
ALL FACILITIES		APPROVED		06-11-91
SCALE:	NONE	CAD. ID.	V2-1043.dwg	ER NO.
				SHT. OF 1



CR1
1044

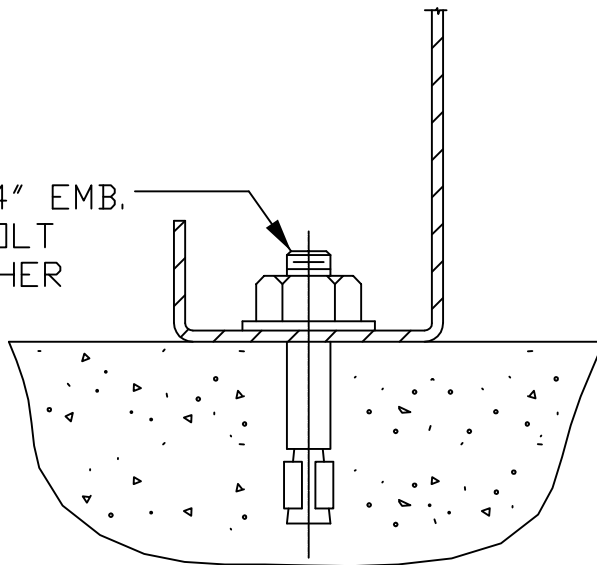
DETAIL



A

SECTION

1/2"Ø X 2 3/4" EMB.
HILTI KWIK BOLT
W/ FLAT WASHER



B

DETAIL

LOCKHEED MARTIN
SPACE SYSTEMS



V2-1044

REV.

0

DATE

FACILITY OPERATIONS & SERVICES / ORGN 9H-1S

DRAWN JOHN WILLIAMS

10-15-90

DWG TITLE: DETAIL FOR CANTILEVER RACK - ANCHOR ON GROUND FLOOR

CHECKED S. TAUR

06-11-91

ALL FACILITIES

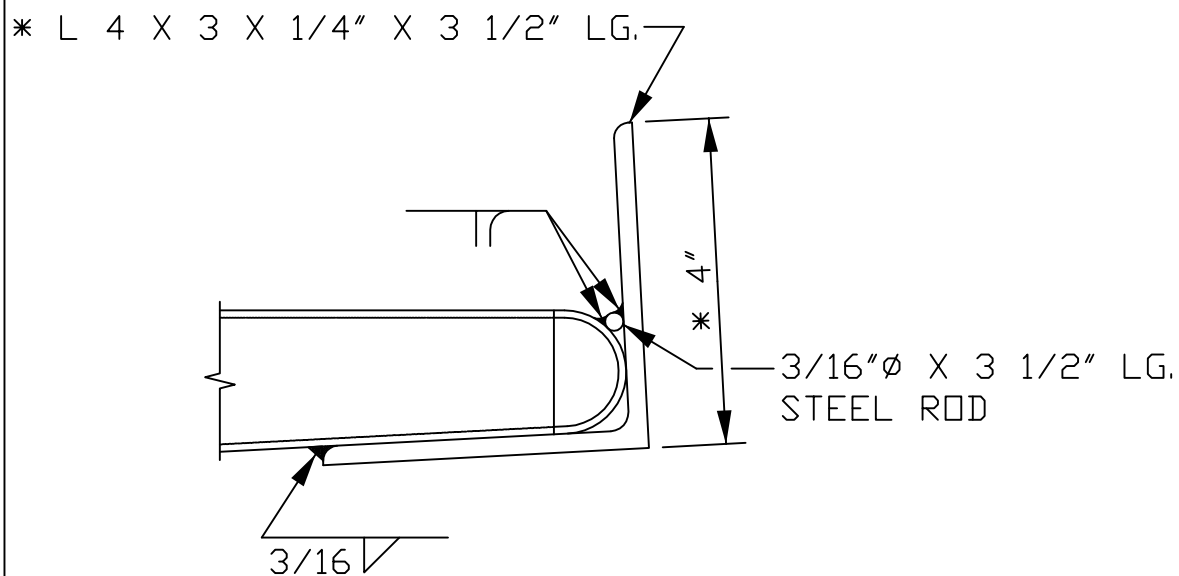
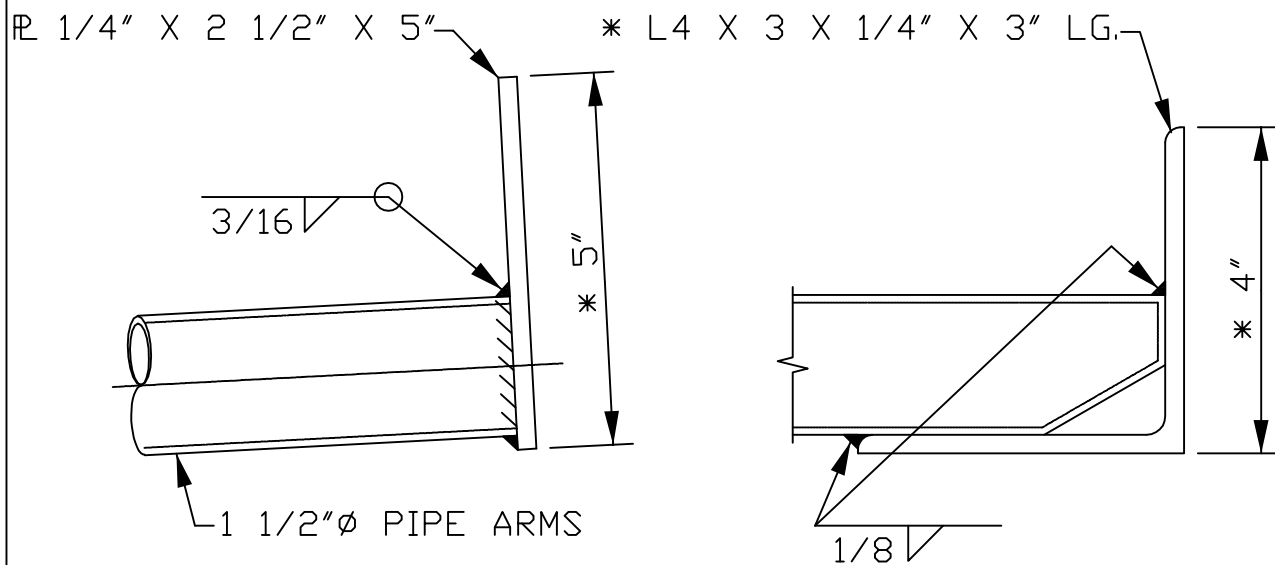
APPROVED

SCALE: NONE

CAD. ID. V2-1044.dwg

ER NO.

SHT. OF 1



NOTE:

* ADJUST DIMENSION
AS NEEDED

CR2
1045

DETAIL

LOCKHEED MARTIN SPACE SYSTEMS		V2-1045		REV. 0
FACILITY OPERATIONS & SERVICES / ORGN 9H-1S		DRAWN JOHN WILLIAMS		DATE
DWG TITLE: DETAIL FOR CANTILEVER RACK - ARMS END STOP		CHECKED S. TAUR		06-11-91
ALL FACILITIES		APPROVED		
SCALE: NONE	CAD. ID. V2-1045.dwg	ER NO.	SHT. OF 1	1

REVISION HISTORY

Release Date	Detail	Change Description	Author/Lead
10/23/14	All	Unnecessary details deleted. Minor corrections to existing details.	Mike Dooley
6/27/14	V2-856	Revised	Ramzi Srouji
5/1/14	V2-911A	Revised	Mike Dooley
5/1/14	V2-506	Deleted	Mike Dooley
5/1/14	V2-507	Deleted	Mike Dooley
5/1/14	V2-508	Deleted	Mike Dooley
5/1/14	V2-509	Deleted	Mike Dooley