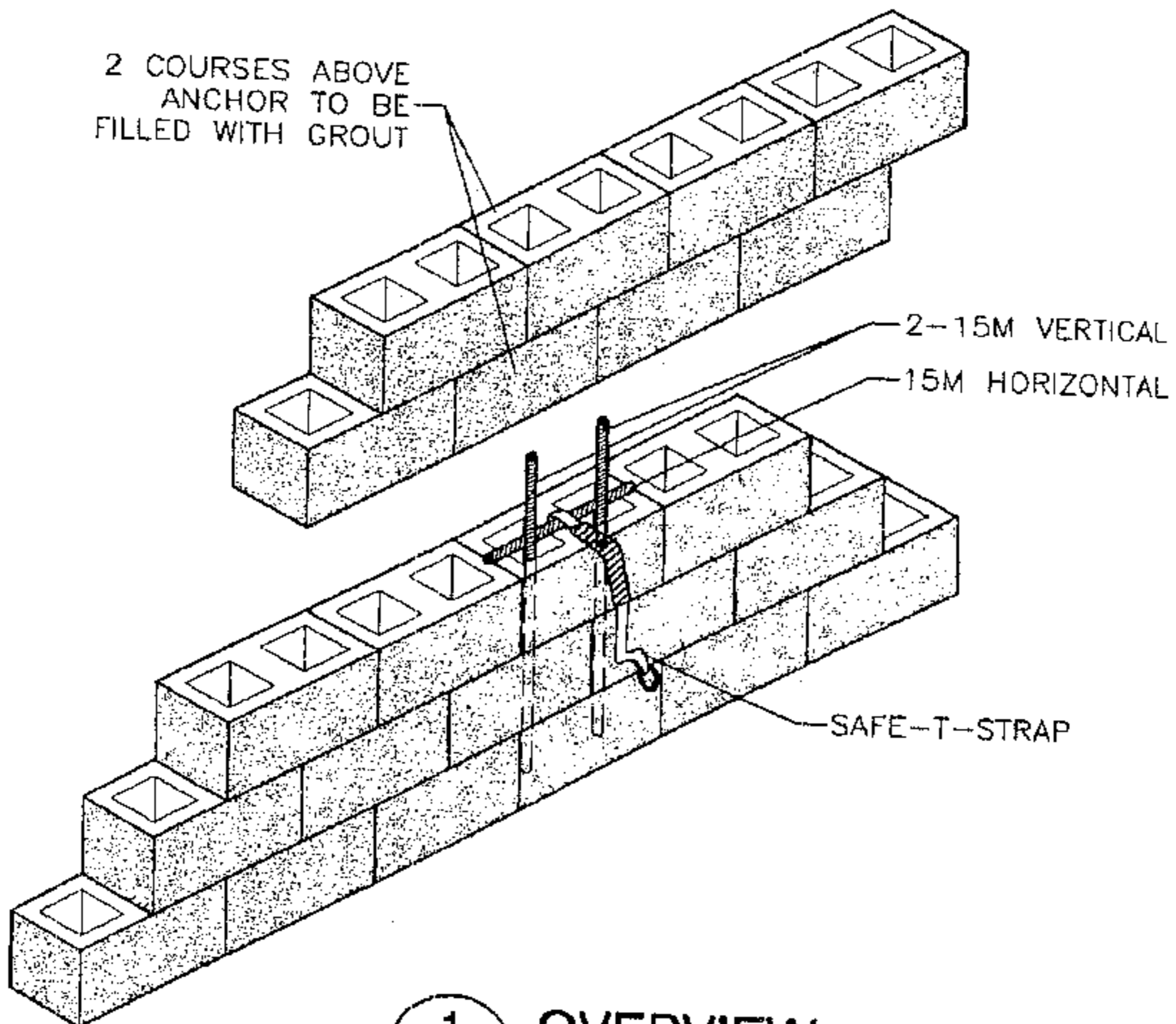


NOTES:

1. ANY DEVIATION FROM THE CONDITIONS SHOWN ON THE DRAWING SHALL BE SUBMITTED TO THE ENGINEER.
2. CONTRACTOR HAS TO VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO COMMENCING WORK.
3. DESIGN LOAD: 5000 lbs (22.24kN) IN ANY DIRECTION.
4. MATERIALS: MASONRY BLOCKS 8" MIN.;
GROUT $f'_c \approx 15$ MPa MIN.;
15M REINFORCING BARS $f'_y = 400$ MPa.



1 OVERVIEW
SK-1 N.T.S.

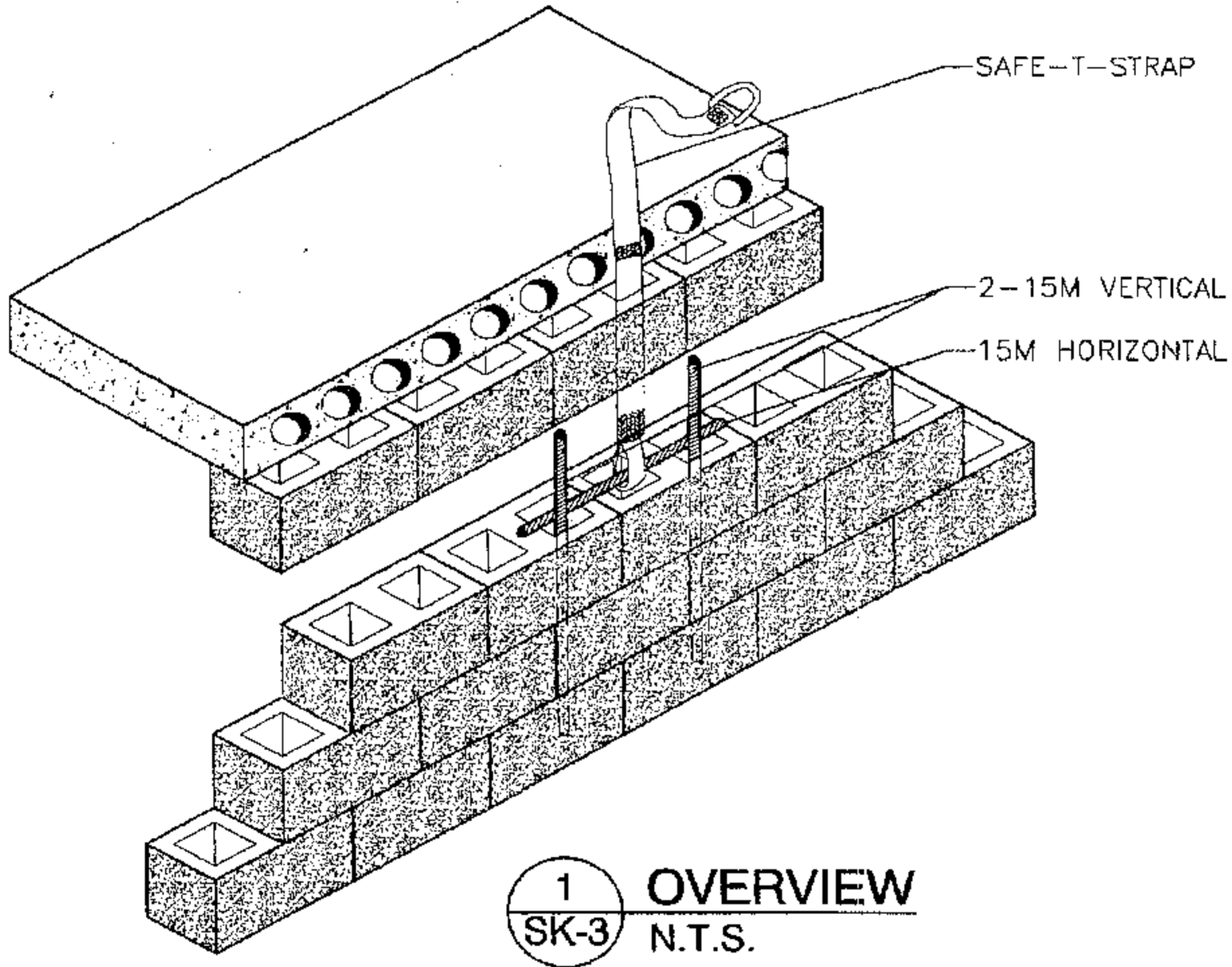


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 63 Walgreen Road • Suite 203
 Carp • Ontario • K0A 1L0 • Canada
 (613) 836-0632 • Fax: (613) 836-1226
 www.artengineering.ca
 BCIN: 32320

client		
SAFE-T-STRAP		
project		
SAFE-T-STRAP FOR MASONRY BLOCK WALL		
date	project No.	drawing No.
OCT. 31, 2007	0826	SK-1

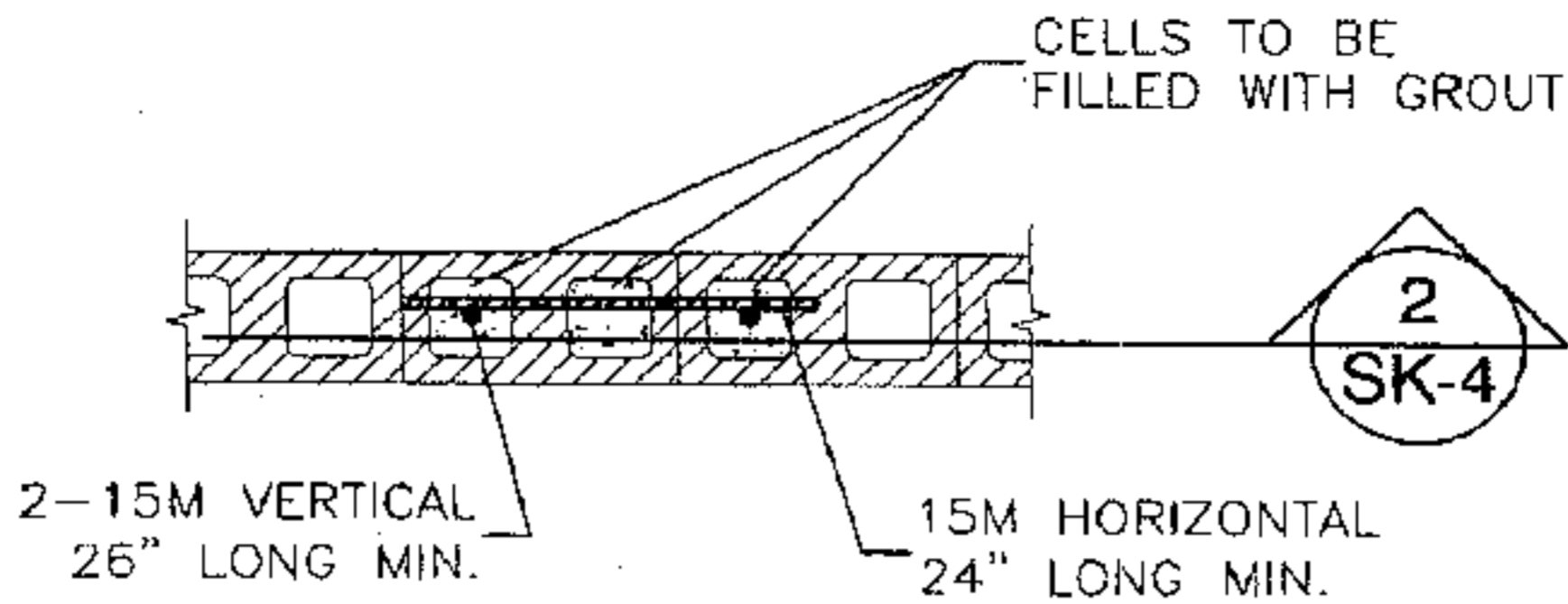
NOTES:

1. ANY DEVIATION FROM THE CONDITIONS SHOWN ON THE DRAWING SHALL BE SUBMITTED TO THE ENGINEER.
2. CONTRACTOR HAS TO VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO COMMENCING WORK.
3. DESIGN LOAD: 5000 lbs (22.24kN) IN ANY DIRECTION.
4. MATERIALS: MASONRY BLOCKS 8" MIN.;
CORE SLAB 6" MIN. THICKNESS;
GROUT $f'_c=15$ MPa MIN.;
15M REINFORCING BARS $f'_y=400$ MPa.

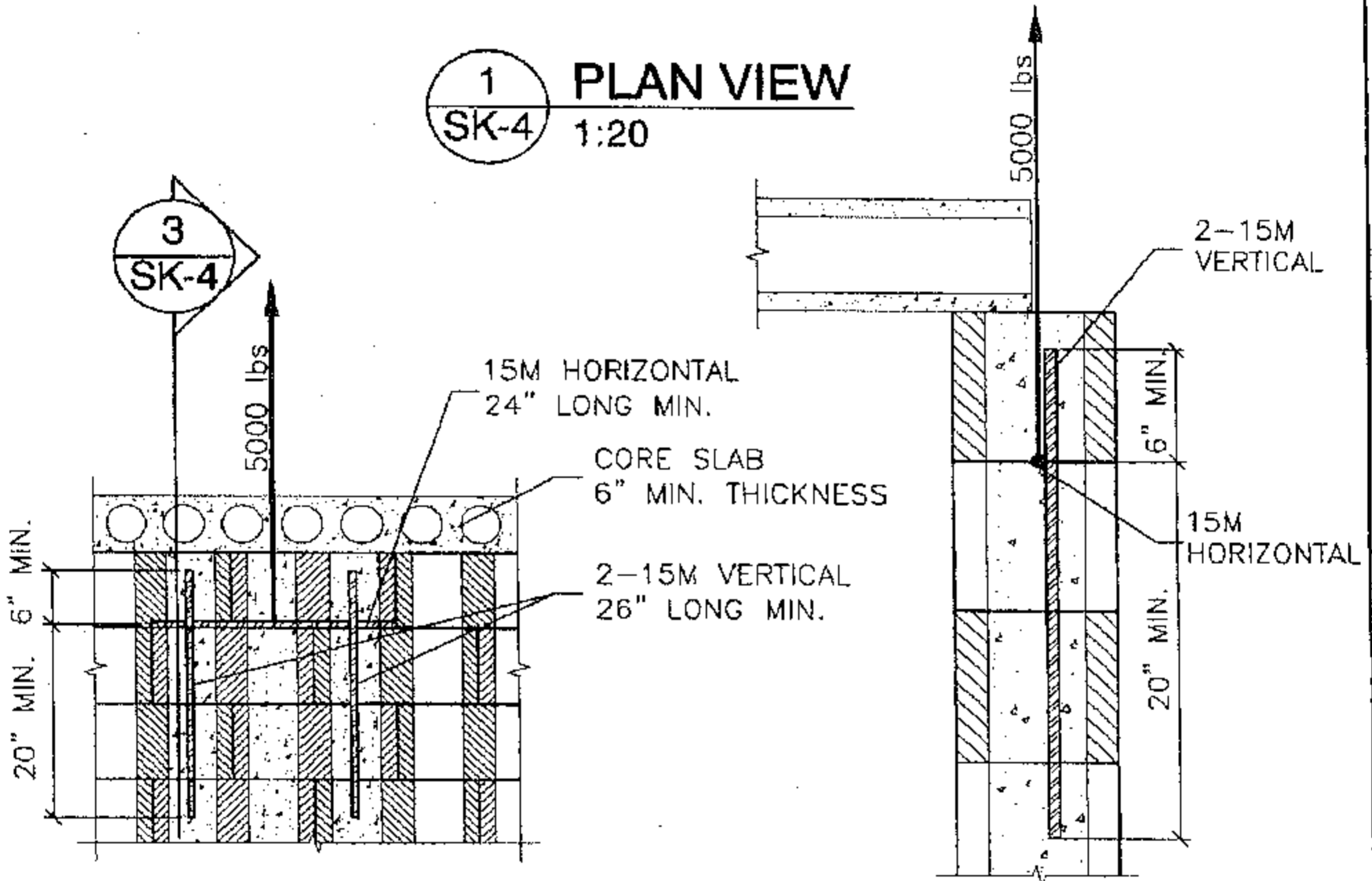



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 www.artengineering.ca
 BCIN: 32320

client		
SAFE-T-STRAP		
project		
SAFE-T-STRAP FOR MASONRY BLOCK WALL		
date	project No.	drawing No.
NOV. 05, 2007	0826	SK-3



1 PLAN VIEW
SK-4 1:20



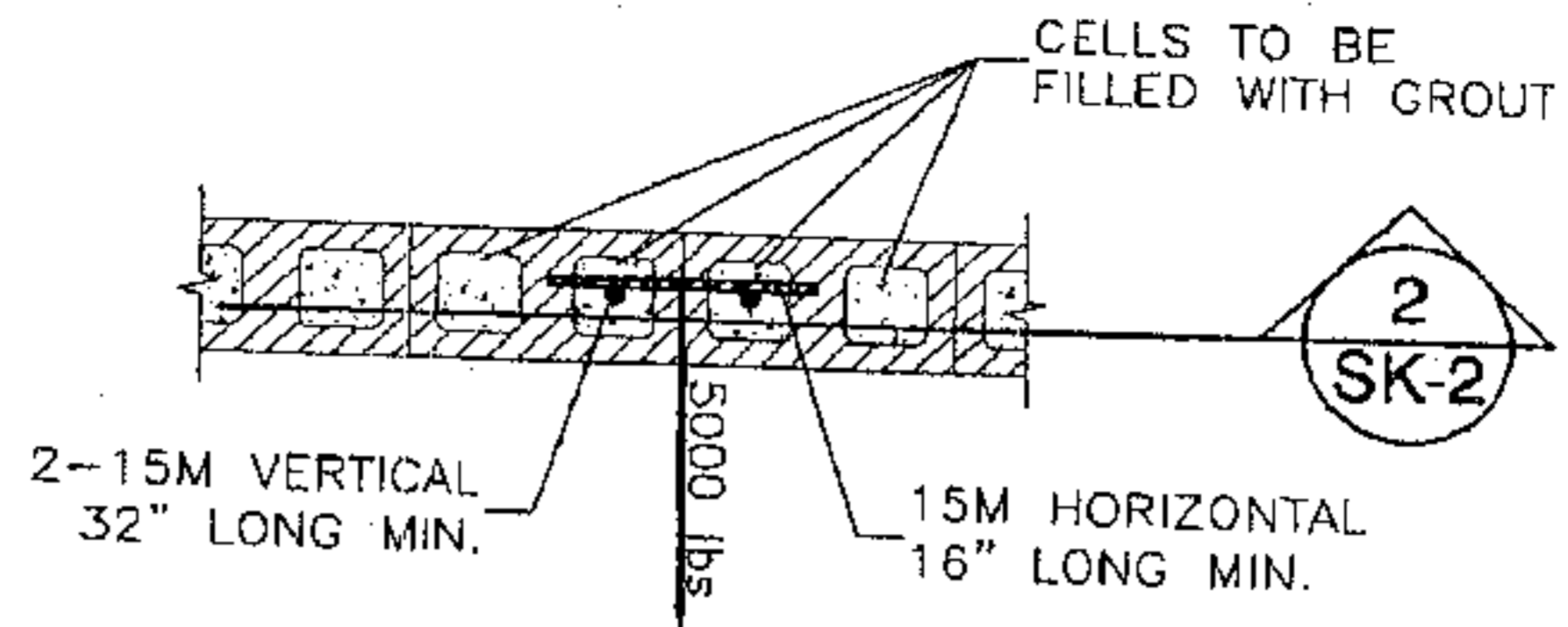
2 SECTION
SK-4 1:20

3 SECTION
SK-4 1:10

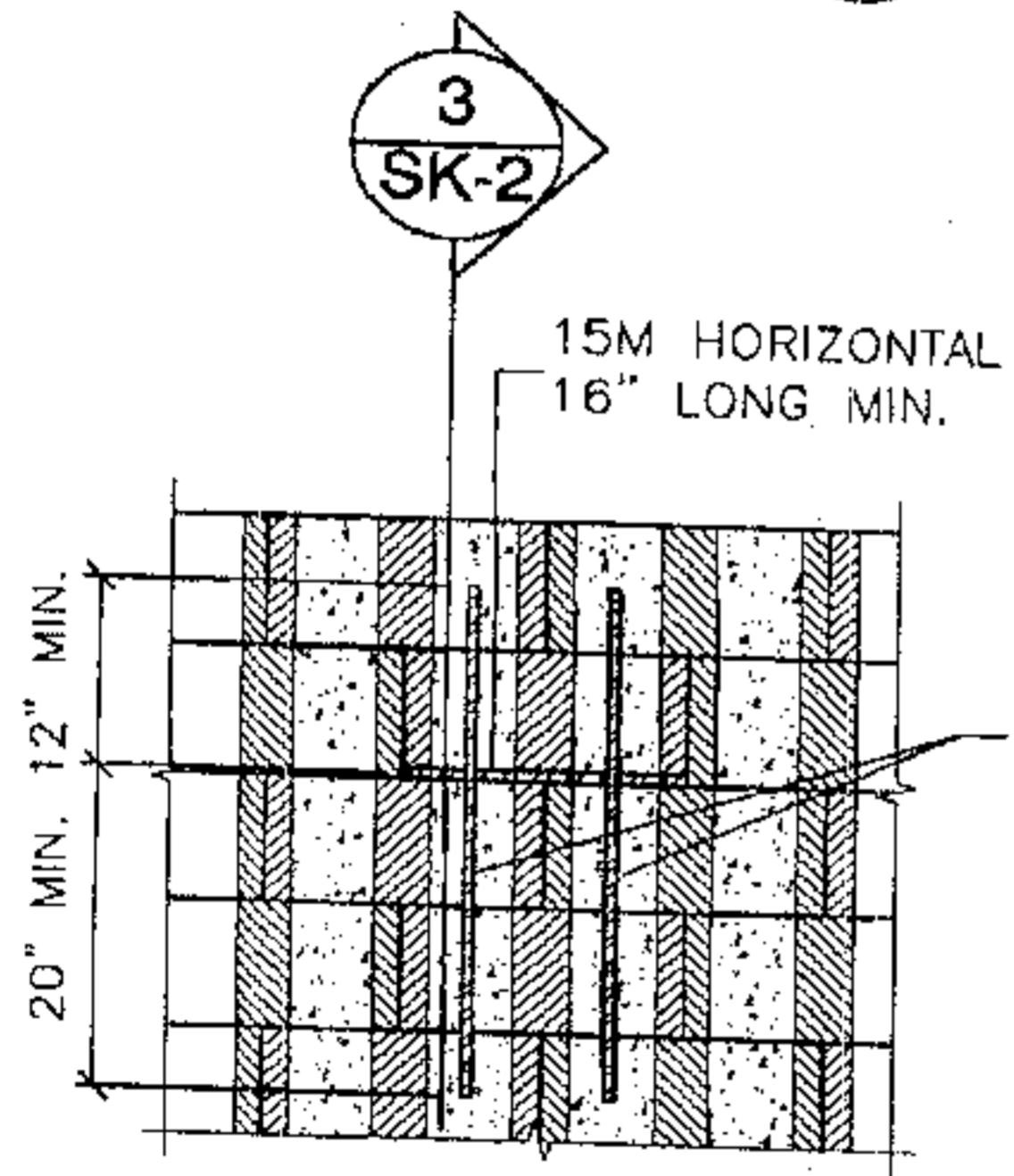


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BCIN: 32320

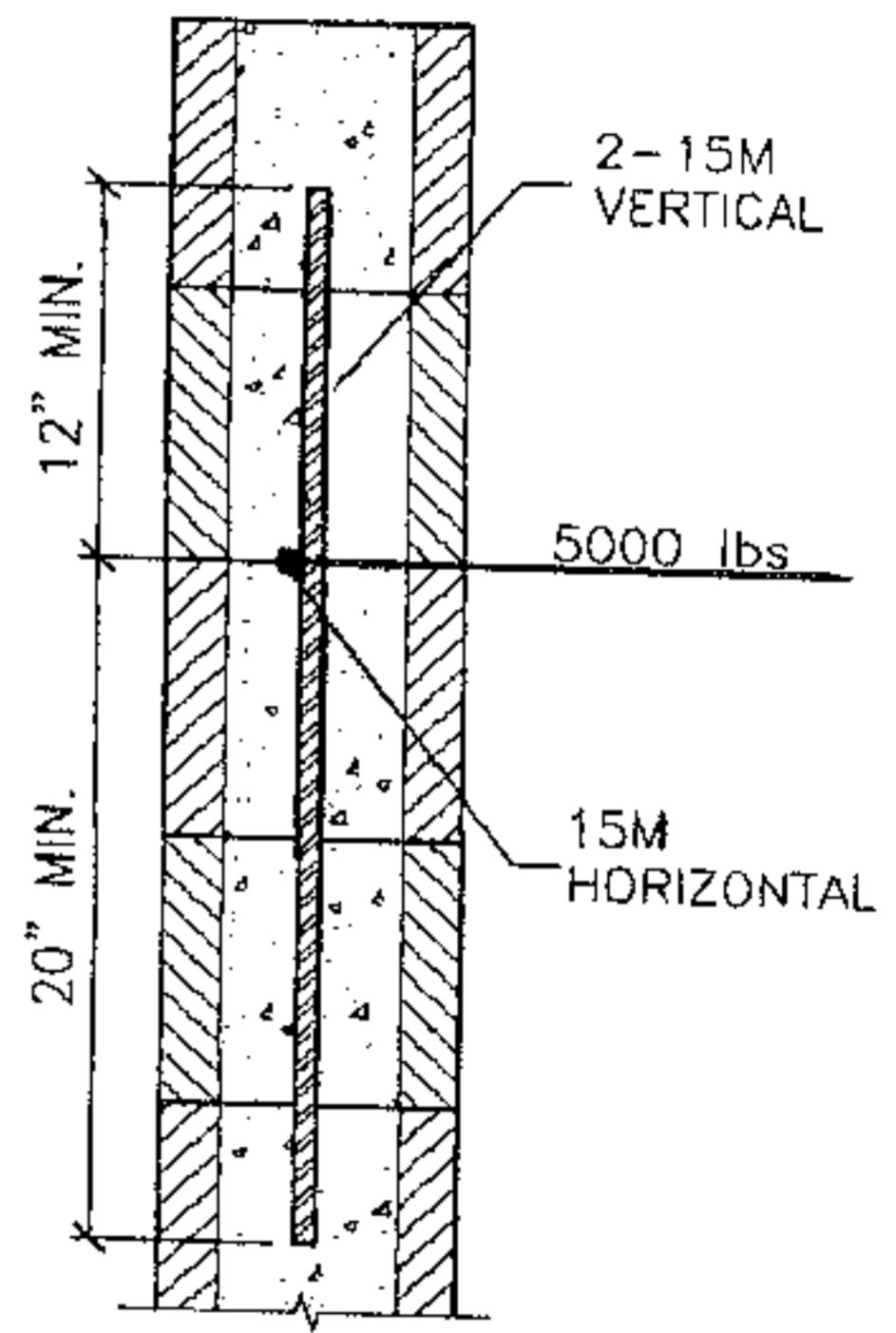
client SAFE-T-STRAP		
project SAFE-T-STRAP FOR MASONRY BLOCK WALL		
date NOV. 05, 2007	project No. 0826	drawing No. SK-4



1 PLAN VIEW
SK-2 1:20



2 SECTION
SK-2 1:20



3 SECTION
SK-2 1:10



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(613) 836-0632 • Fax: (613) 836-1226
www.artengineering.ca
BCIN: 52320

client		
SAFE-T-STRAP		
project		
SAFE-T-STRAP FOR MASONRY BLOCK WALL		
date	project No.	drawing No.
OCT. 31, 2007	0828	SK-2

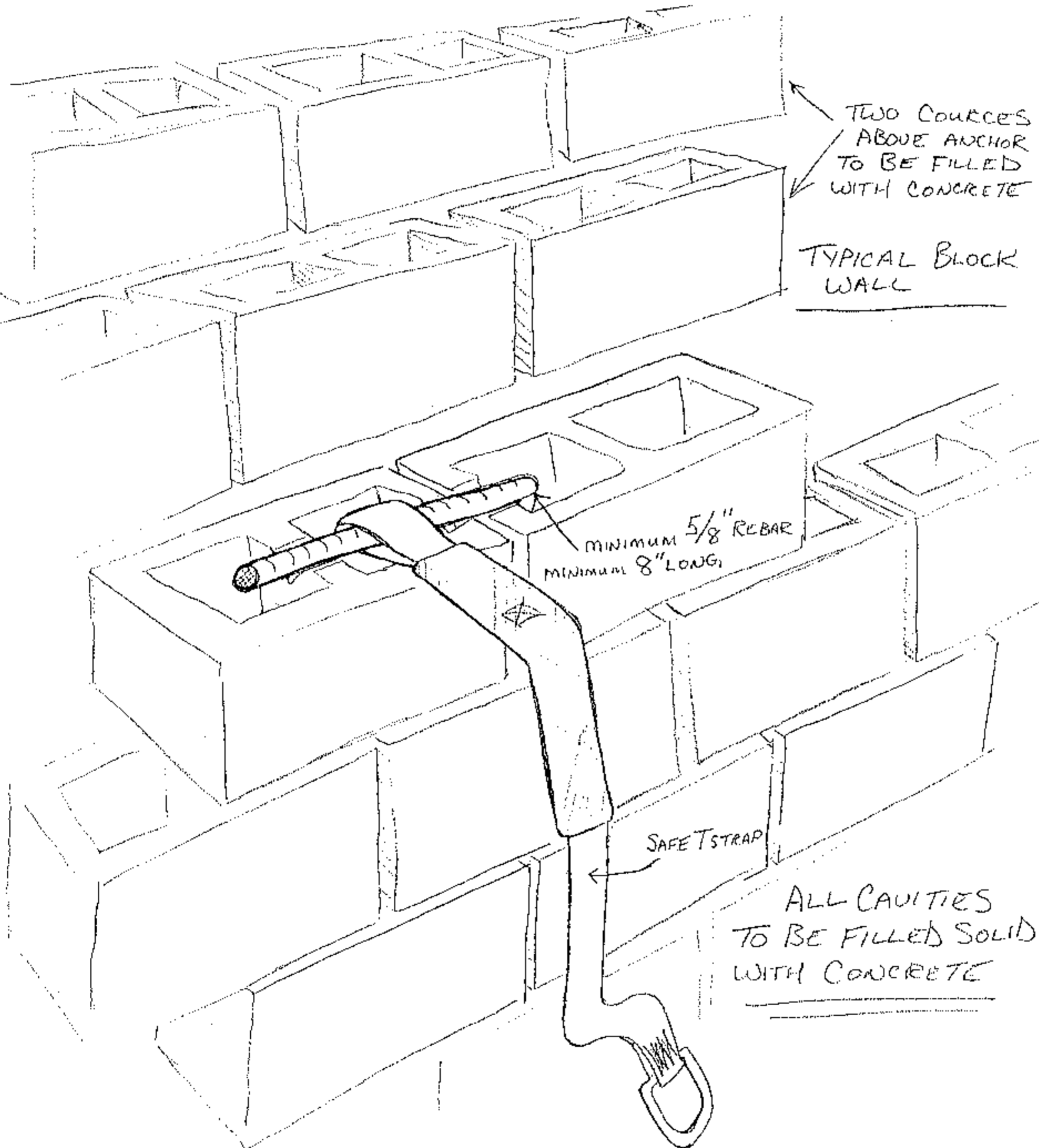


SAFE-T-STRAP™

333 Frankcom Str., Ajax, Ontario L1S 1R4 Tel.: (905) 426-3243 Fax: (905) 426-2160

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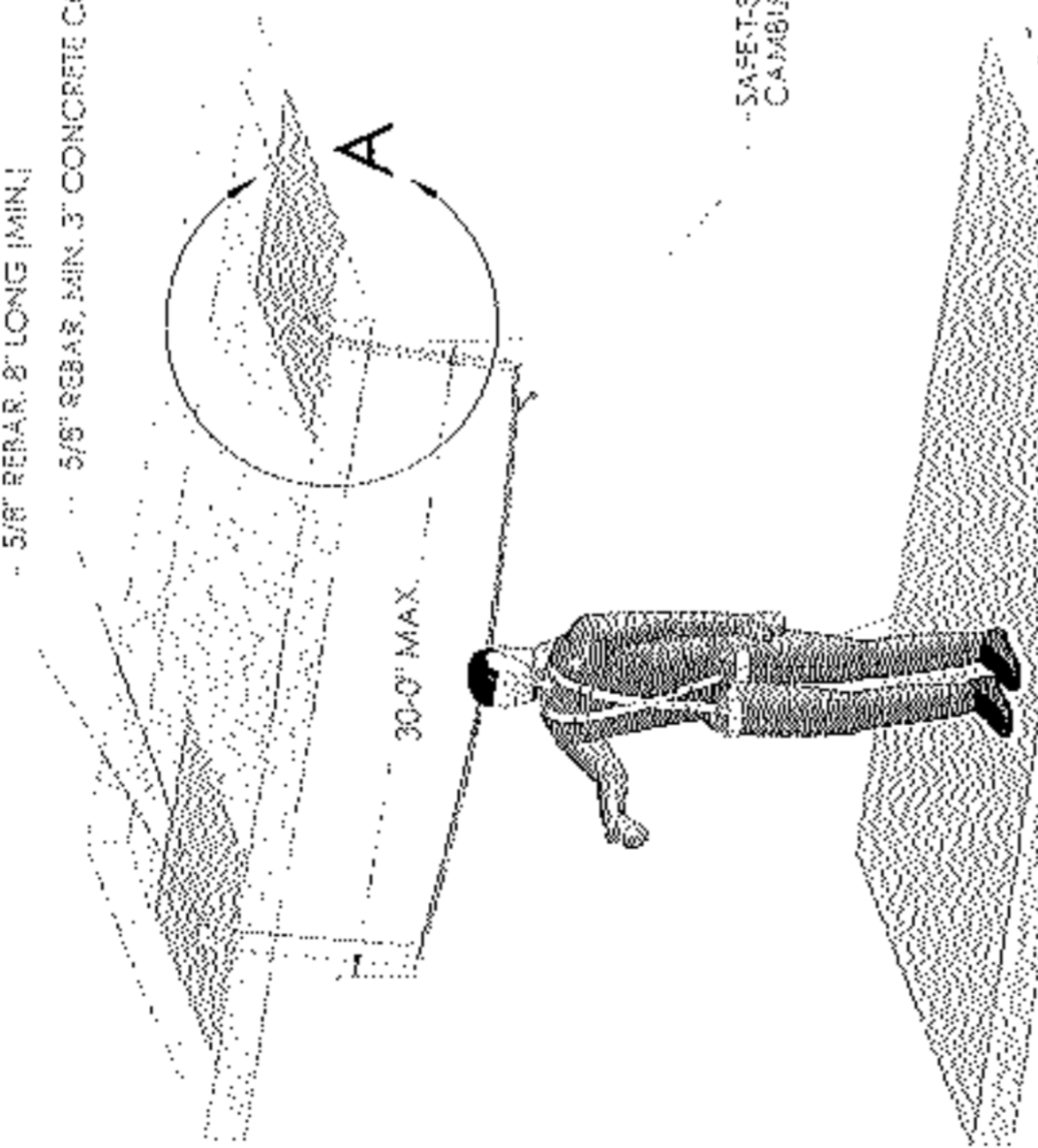
* VERTICAL DOWELS CAN ALSO BE USED
PROVIDING MINIMUMS ARE FOLLOWED
AND WALLS ARE FILLED WITH CONCRETE

PROJECT NUMBER: 07-5446

- NOTES:
- 1- THIS FALL ARREST SYSTEM HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF SUBPART 1962.502 TITLED "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION" - FALL PROTECTION U.S. DEPARTMENT OF LABOUR.
 - 2- THE SYSTEM MUST BE INSTALLED BY QUALIFIED WORKERS IN ACCORDANCE WITH THIS ENGINEERED DRAWING AND SAFE-T-STRAP INSTRUCTIONS.
 - 3- ANCHORS FOR THE SYSTEM MUST BE INSTALLED IN POURED IN PLACE SLABS WITH A MINIMUM 6" DEPTH. THE SYSTEM MUST ONLY BE USED AFTER THE CONCRETE HAS ATTAINED 14-DAY STRENGTH.
 - 4- THE SYSTEM MAY BE USED FOR THE TIE-OFF OF ONE WORKER.
 - 5- WORKERS USING THE SYSTEM MUST BE TRAINED IN ITS USE.
 - 6- THE EMPLOYER MUST PREPARE A RESCUE PLAN TO BE IMPLEMENTED SHOULD A FALL OCCUR.
 - 7- WORKERS USING THE SYSTEM MUST BE TRAINED IN THAT RESCUE PLAN.
 - 8- EACH WORKER TIED TO THE HORIZONTAL STATIC LINE SYSTEM, MUST WEAR A FULL BODY HARNESS ATTACHED TO AN ADJUSTABLE LANYARD SUPPLIED BY SAFE-T-STRAP.
 - 9- THE SYSTEM MUST BE INSTALLED A MINIMUM OF 6" FROM A FALL HAZARD.
 - 10- ENSURE THAT THE LANYARD IS TAUT WHEN APPROACHING A FALL HAZARD.
 - 11- A QUALIFIED PERSON MUST INSPECT THE SYSTEM BEFORE USE.
 - 12- THE QUALIFIED PERSON MUST ENSURE THAT A WORKER TIED TO THE SYSTEM WILL NOT CONTACT ANY LOWER LEVEL IF A FALL ARREST OCCURS.
 - 13- THE SAFE-T-STRAP MAY BE REMOVED (CUT) AFTER THE FALL HAZARD HAS BEEN ELIMINATED.
 - 14- HITE ENGINEERING CORPORATION MUST BE NOTIFIED OF ANY CHANGES TO OR DEVIATION FROM THIS ENGINEERED DRAWING.

5/8" REBAR, 8" LONG (MIN.)
5/8" REBAR, MIN. 3" CONCRETE COVER

NOTE: CEILING SLAB TRANSPARENCY TURNED ON FOR CLARITY



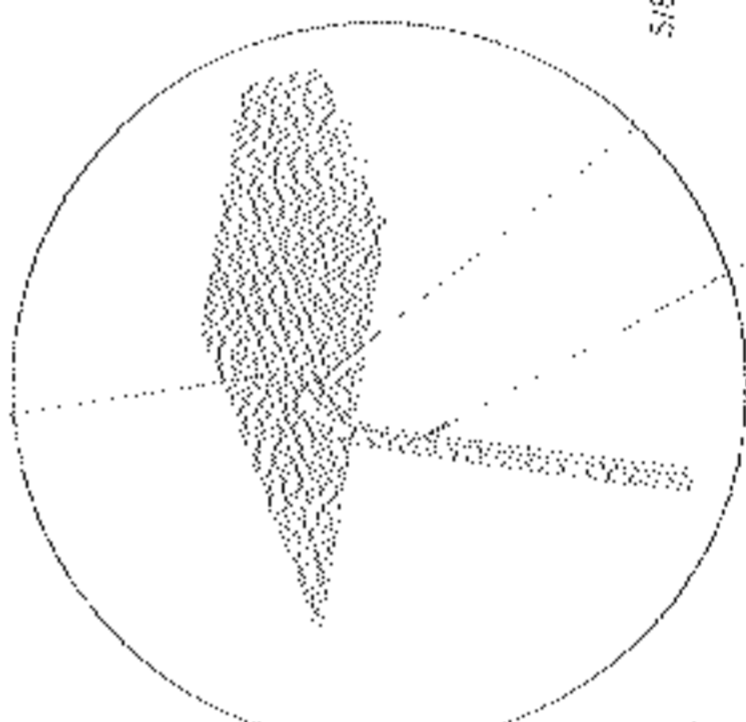
SAFE-T-STRAP HLL-XX C/W HOOKS AND CAMEBUCKLE ADJUSTER

APPROVED BODY HARNESS

SAFE-T-STRAP HLL-XX ADJUSTABLE LANYARD WITH SHOCK ABSORBER OR EQUIVALENT
SAFE-T-STRAP HLL-XX C/W HOOKS AND CAMEBUCKLE ADJUSTER

SLAB REBAR, MIN. 3" CONCRETE COVER

FORMING PLYWOOD (TO BE REMOVED AFTER CURING, SAFE-T-STRAPS REMAIN)

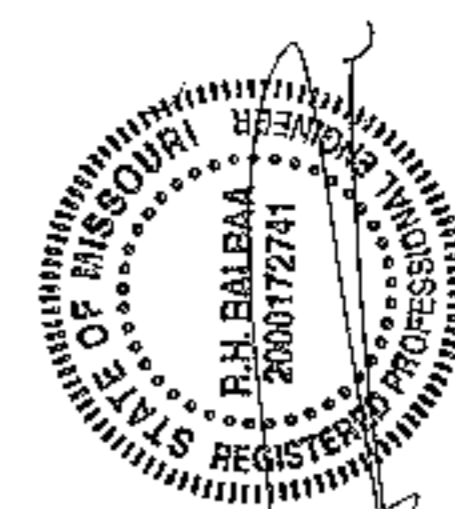
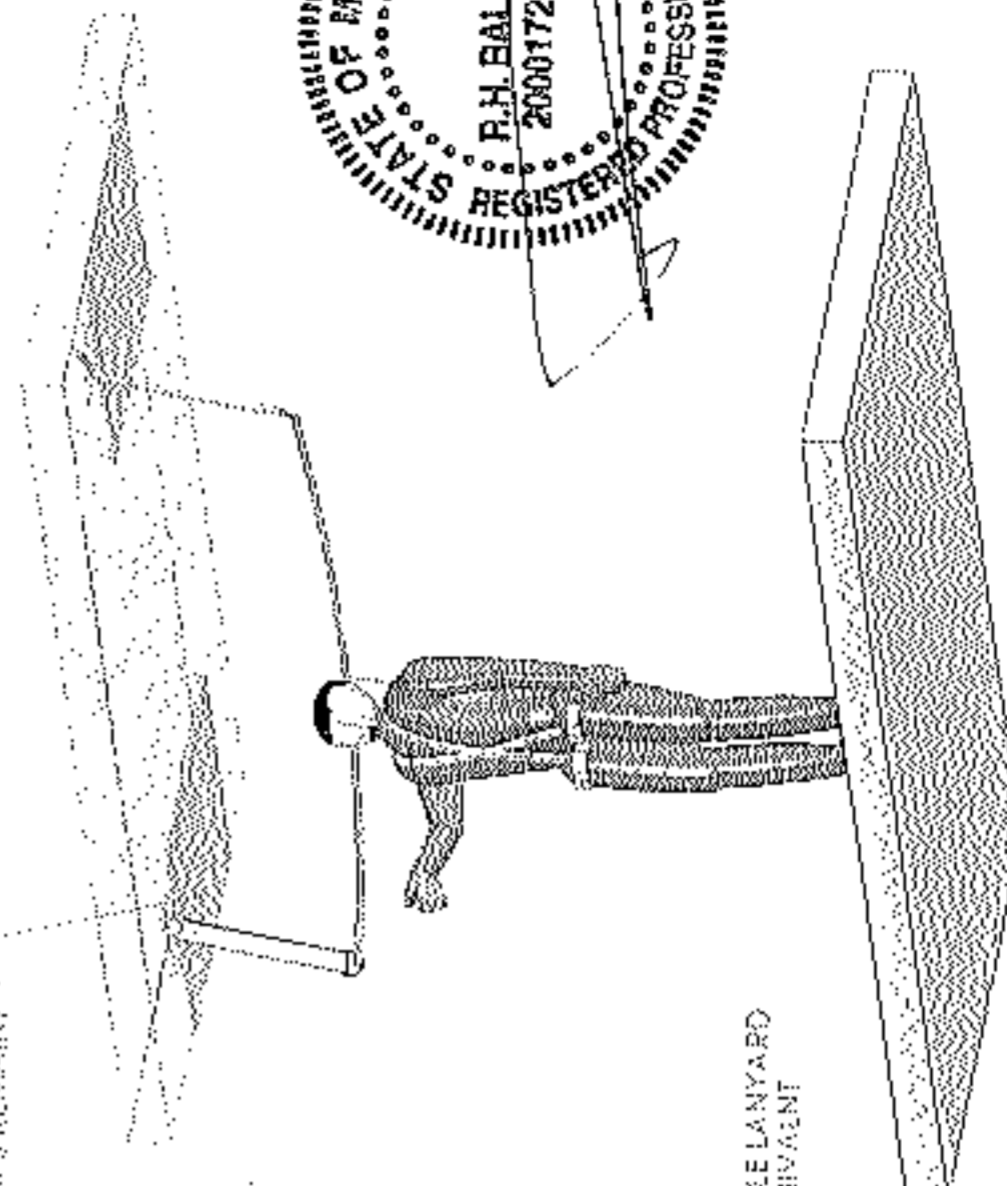


DETAIL A
SCALE 2:35

5/8" REBAR

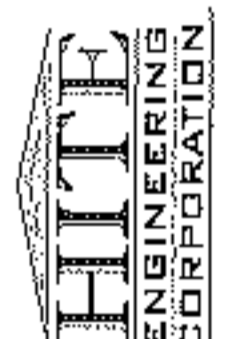
SAFE-T-STRAP HLL-XX ADJUSTABLE LANYARD WITH SHOCK ABSORBER OR EQUIVALENT

NOTE: CEILING SLAB TRANSPARENCY TURNED ON FOR CLARITY



SAFE-T-STRAP
HSL FALL ARREST SYSTEM

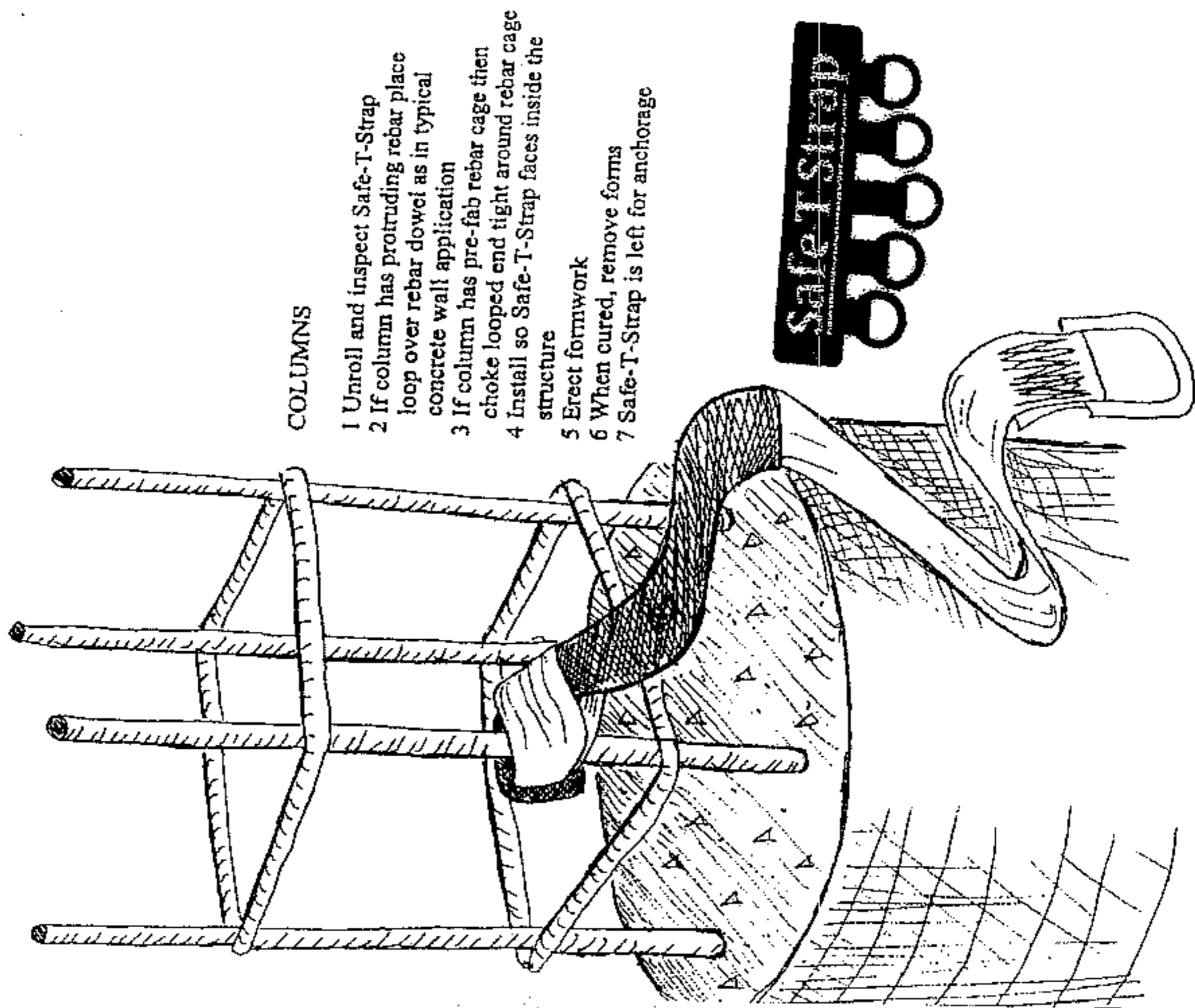
HITE Engineering Corp.
Consulting Engineers
2660 Midcolloway Blvd, Unit 2-3
Mississauga, Ontario L5N 6M6
1:905-812-3709 F:905-812-3710



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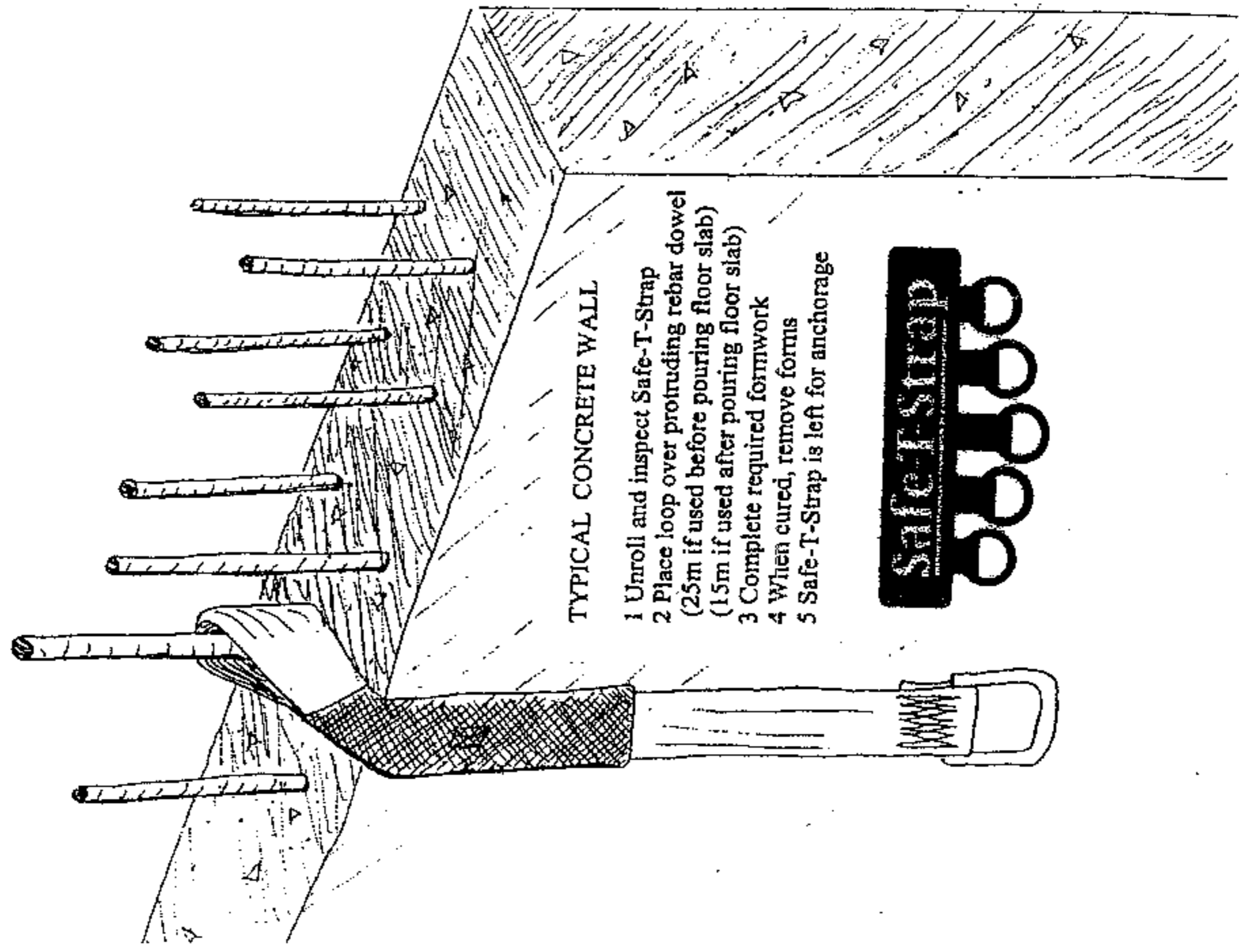
NO.	DATE	BY	CHK.	APP.	REVISIONS
1	2003	RB			CLASSIFIED LOCATION FINAL
2	2006	PS			DESCRIPTION
3	2007	RB			

DRAWN BY: T. CROCKER
SCALE: N.T.S.
DATE: 08-13-07
ENG'G APP'D: R. BALBOA
DRAWING NO: 4483-1179-07



COLUMNS

- 1 Unroll and inspect Safe-T-Strap
- 2 If column has protruding rebar place loop over rebar dowel as in typical concrete wall application
- 3 If column has pre-fab rebar cage then choke looped end tight around rebar cage
- 4 Install so Safe-T-Strap faces inside the structure
- 5 Erect formwork
- 6 When cured, remove forms
- 7 Safe-T-Strap is left for anchorage



TYPICAL CONCRETE WALL

- 1 Unroll and inspect Safe-T-Strap
- 2 Place loop over protruding rebar dowel (25m if used before pouring floor slab) (15m if used after pouring floor slab)
- 3 Complete required formwork
- 4 When cured, remove forms
- 5 Safe-T-Strap is left for anchorage



PROJECT NUMBER: 06-6027

GENERAL NOTES:

- 1-THE SAFE-T-STRAP IS DESIGNED WITH AN ULTIMATE STRENGTH OF 5000 LBS IN ACCORDANCE WITH THE REQUIREMENTS OF OSHA/OSHA REGULATIONS & APPLICABLE CSA AND ANSI STANDARDS.
- 2-THE SYSTEM MUST BE USED IN ACCORDANCE WITH THE REQUIREMENTS OF OSHA/OSHA.
- 3-A COMPETENT WORKER MUST INSTALL AND INSPECT THE SYSTEM AND ALL OTHER FALL PROTECTION EQUIPMENT TO ENSURE THAT ALL ARE IN A SAFE OPERATIONAL CONDITION. THE WORKER MUST REPORT ANY SIGNS OF DISTRESS AND THE SYSTEM NOT USED UNTIL IT HAS BEEN REPAIRED AND APPROVED FOR USE BY A PROFESSIONAL ENGINEER.
- 4-WHEN APPROACHING WITHIN 2M (6.5') OF AN UNPROTECTED EDGE, A WORKER SHALL BE WEARING A FULL BODY HARNESS EQUIPPED WITH A SHOCK ABSORBING LANYARD AND TIED TO AN ANCHOR OR A LIFELINE SECURED TO A SAFETY ANCHOR OUTSIDE THE 2M (6.5') LIMIT.
- 5-THE FULL BODY HARNESSES AND LANYARDS MUST COMPLY WITH THE REQUIREMENTS OF OSHA/OSHA.
- 6-DEVELOP AN EMERGENCY RESCUE PLAN.
- 7-HITE ENGINEERING CORPORATION MUST BE NOTIFIED OF ANY CHANGES TO OR DEVIATION FROM THIS DRAWING.

OCCUPATIONAL CLASSIFICATIONS ALLOWED TO USE THIS SYSTEM:
 ALL OCCUPATIONAL CLASSIFICATIONS WHERE FALL PROTECTION IS REQUIRED. THE SAFE-T-STRAP MUST NOT BE USED IN ENVIRONMENTS WHERE THE SYSTEM COULD COME IN CONTACT WITH CORROSIVE MATERIALS.

ENGR APP'D:	S. WAHABI
DRAWN BY:	D. SHIRLEY
SCALE:	N.T.S.
DATE:	07/29/08
DRAWING NO:	1288
SHEET #:	3 of 4
REV:	D

CAUTION: REVIEW ALL MANUFACTURER'S INSTRUCTIONS AND INSTRUCTIONS ON THIS DRAWING BEFORE INSTALLATION AND USE.



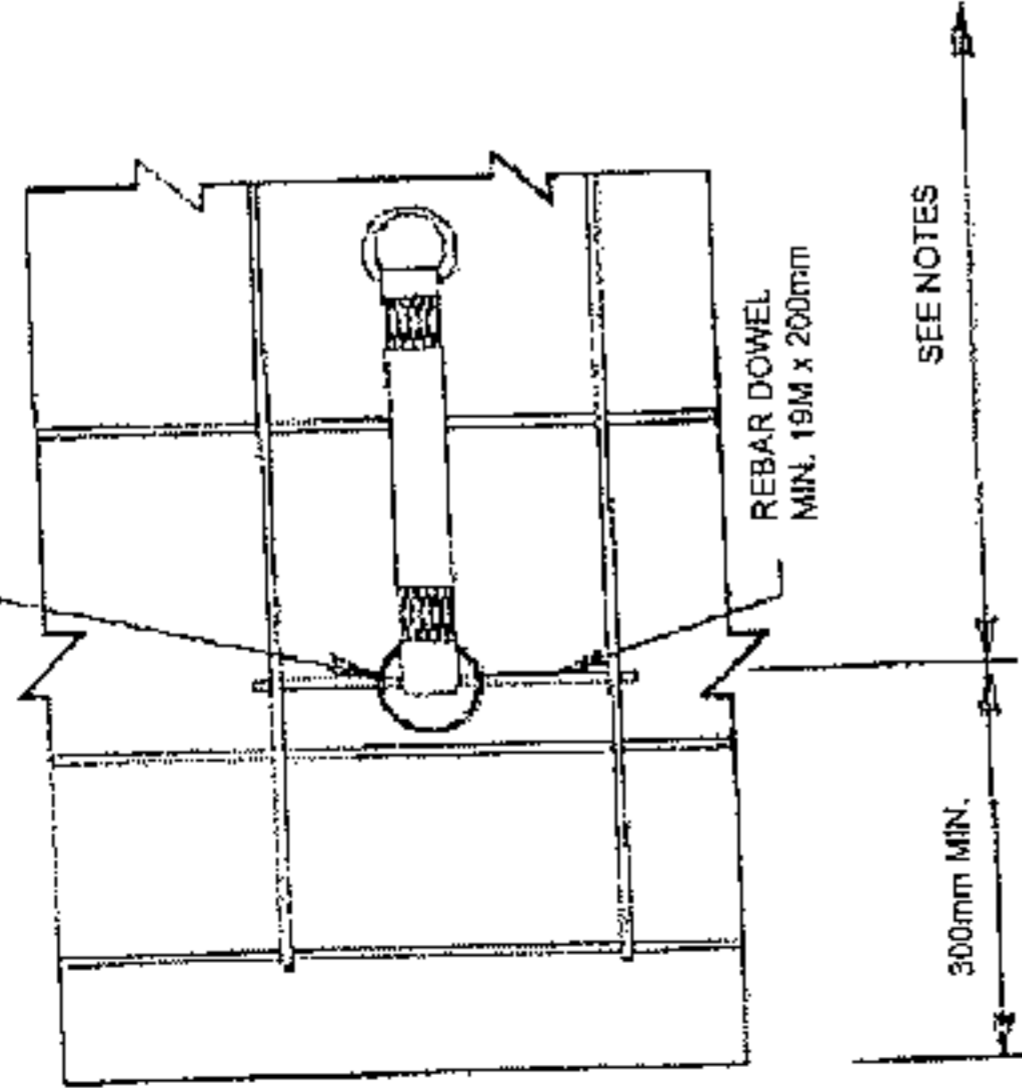
INSTALLATION & SAFE USE NOTES:

- 1-INSPECT THE UNWRAPPED SAFE-T-STRAP FOR ANY SIGNS OF DEFECTS. DO NOT USE IF ANY DEFECTS ARE FOUND, QUARANTINE AND DISPOSE OF DEFECTIVE UNITS.
- 2-CUT PIPE INSERT TO CORRECT LENGTH AND BREAK ALL SHARP EDGES.
- 3-ASSEMBLE THE SAFE-T-STRAP BY INSERTING THROUGH THE PIPE INSERT AND THEN INSERTING THE REBAR DOWEL THROUGH THE SAFE-T-STRAP END LOOP (SEE DRAWING).
- 4-RECOMMENDED UNPROTECTED EDGE DISTANCE 4'-7" (1400mm) MIN. WHEN USED WITH A 4" (1200mm) APPROVED SHOCK ABSORBING LANYARD.
- 5-SECURELY TIE THE REBAR DOWEL TO THE FLOOR SLAB LOWER REBARS (MIN 12" FROM EDGE OF SLAB) BEFORE PLACING CONCRETE AS SHOWN IN THE DRAWING. SECURE PIPE INSERT TO REBAR AS WELL.
- 6-ENSURE THE GREEN PROTECTIVE SLEEVE IS IN PLACE PROPERLY AND COVERS THE WEBBING WHERE IT CONTACTS THE EDGE OF THE PIPE INSERT.
- 7-INSPECT THE SAFE-T-STRAP INSTALLATION TO ENSURE ALL COMPONENTS ARE CORRECTLY SECURED IN PLACE PRIOR TO PLACING CONCRETE.
- 8-ENSURE THE CONCRETE WALL HAS ATTAINED AT LEAST 7 DAYS STRENGTH FOR MIN. 20 MPa (3000 psi) BEFORE SAFE-T-STRAP IS USED.
- 9-INSPECT THE SAFE-T-STRAP BEFORE EACH USE TO ENSURE ALL COMPONENTS ARE SECURED IN PLACE, AND
- 10-KEEP A WRITTEN LOG OF ALL INSPECTIONS.

INSPECTION RECOMMENDATIONS:

- 1-FOLLOW ALL MANUFACTURER'S INSPECTION GUIDELINES BEFORE EACH USE.
- 2-INSPECT THE SAFE-T-STRAP BEFORE EACH USE FOR ANY SIGNS OF TAMPERING, SERIOUS CORROSION OR DISTRESS.
- 3-INSPECT THE ENTIRE LENGTH OF NYLON WEBBING FOR ANY SIGNS OF EXCESSIVE WEAR, FRAYING, CUTS, OR DISTRESS.
- 4-REMOVE THE SAFE-T-STRAP FROM SERVICE UPON DISCOVERY OF ANY DEFECT IN THE SYSTEM AND NOT USE UNTIL EXAMINED AND APPROVED FOR USE BY A PROFESSIONAL ENGINEER, AND
- 5-KEEP A WRITTEN LOG OF ALL INSPECTIONS.

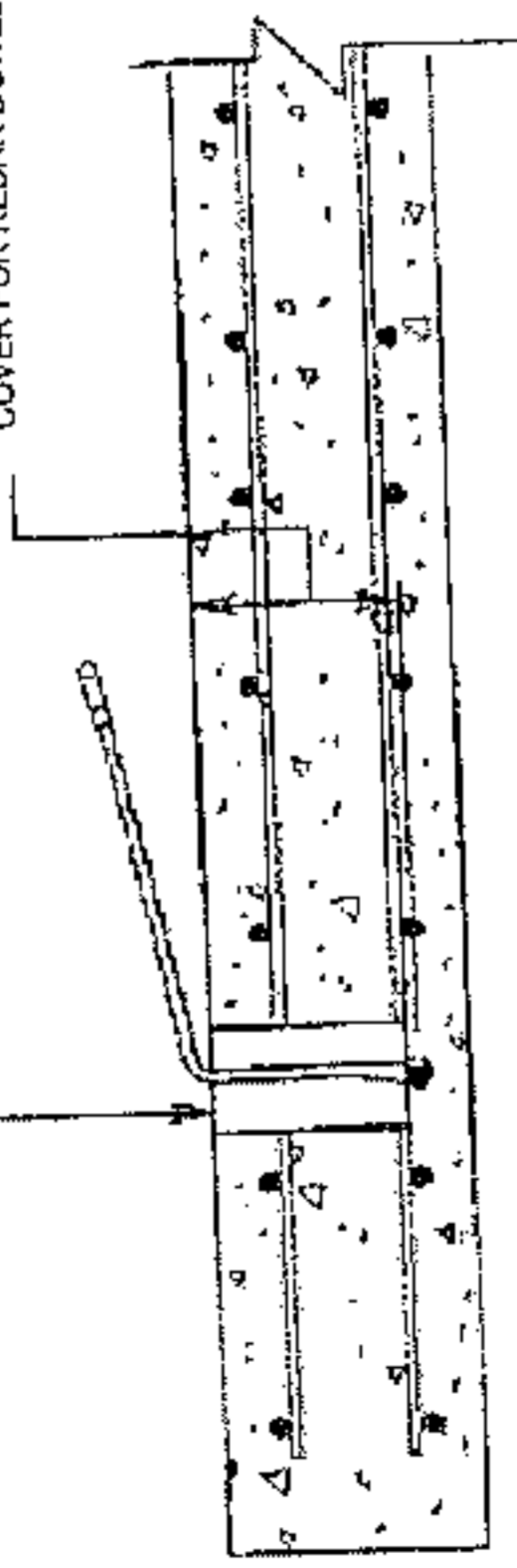
2" (50mm) PIPE INSERT
GROUT WHEN SAFE-T-STRAP IS REMOVED



PLAN VIEW

SAFE-T-STRAP [HR-01] LOOPED END ATTACHED TO REBAR DOWEL THROUGH PIPE INSERT

3 1/2" (90mm) MIN CONC. COVER FOR REBAR DOWEL



REINFORCED CONCRETE SLAB
[TYP. SECTION]

TYPICAL INSTALLATION OF SAFE-T-STRAP [HR-01] FOR REINFORCED CONCRETE SLAB

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 Consulting Engineers
 2660 Meadowdale Blvd., Unit 2-3
 Mississauga, Ontario L5N 6M5
 T: 905-812-3709 F: 905-812-3710



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CONSTRUCTION	FINAL	X
REV	DESCRIPTION	REVISIONS
0	FINAL	
1	07-29-08	S.W. S.W. / M.M. (D.D.) Y.Y. CHK / APP

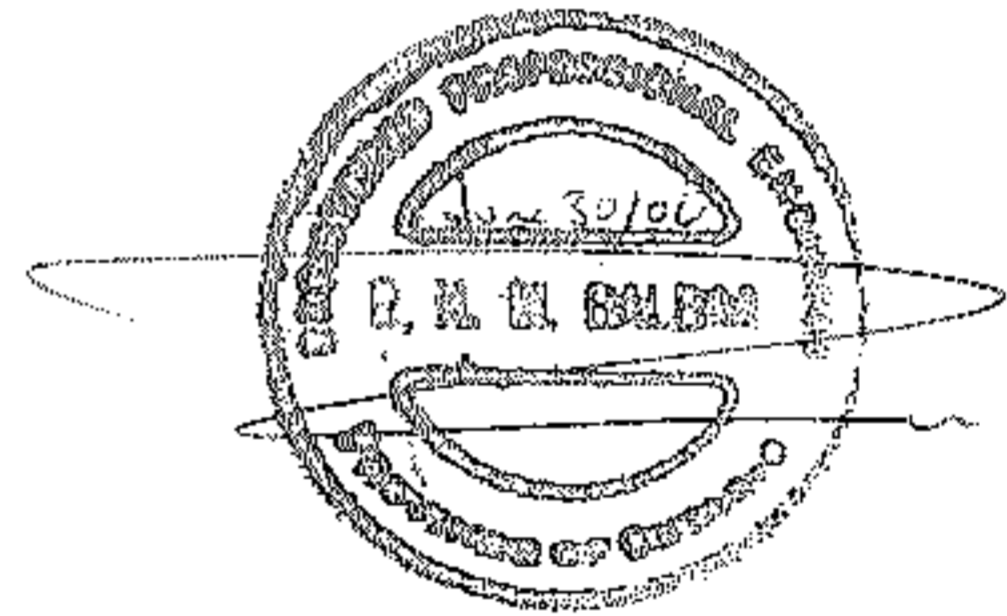
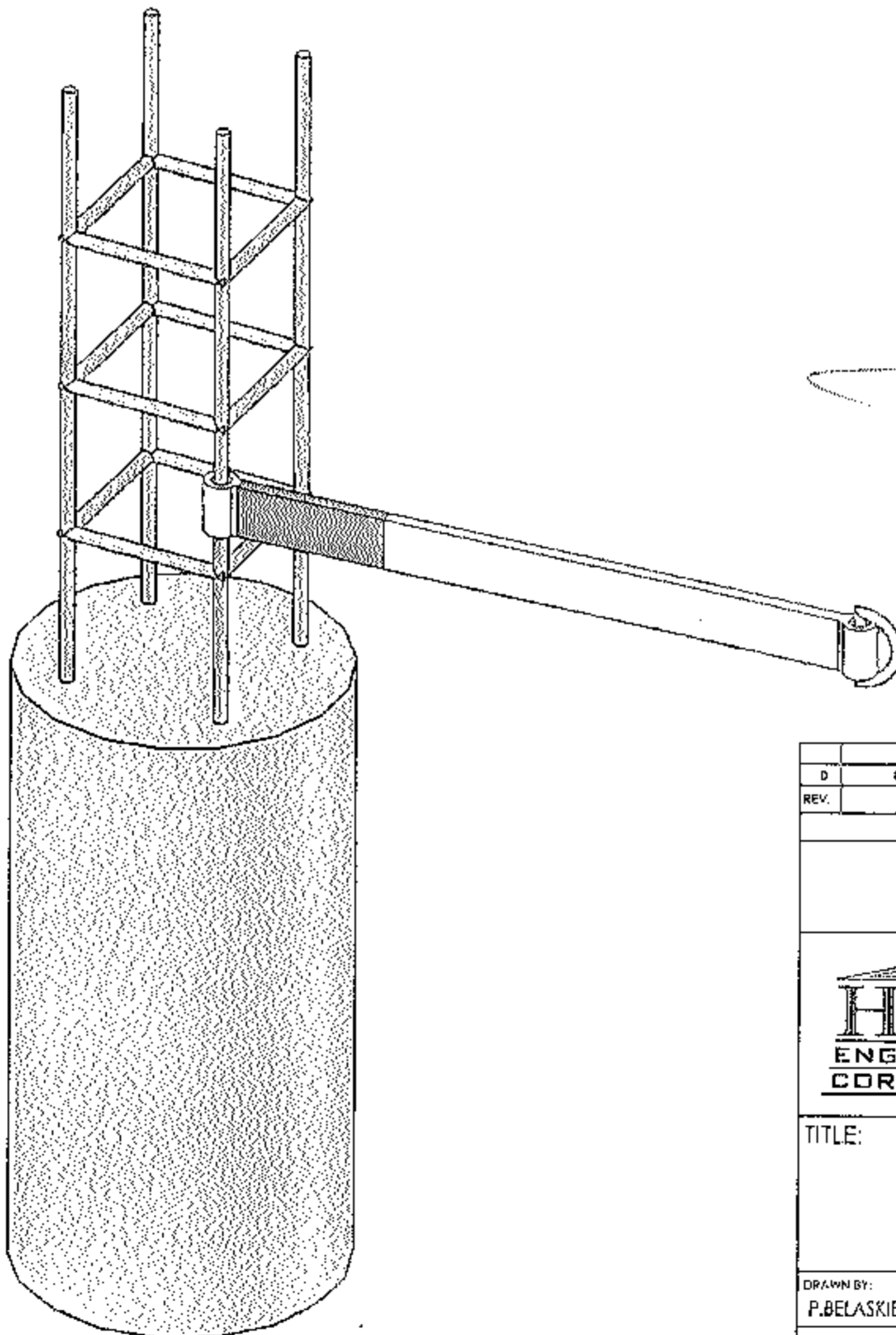
SAFE-T-STRAP
333 FRANKOM STREET, AJAX, ON.


Procedure:

1. A HR-01 Safe-T-Strap is chocked to re-bar cage as shown in the Diagram. Minimum re-bar diameter 5/8" (15.8mm).
2. Ensure a minimum of 3" (76mm) concrete cover (minimum strap embedment).
3. Consult the formwork engineer prior to the concrete pour for any special formwork requirements.
4. Forms are assembled around cage.
5. Concrete is poured.
6. Forms are stripped allowing the D-ring at the end of the HR-01 strap to be used as a fall arrest anchor point.
7. Concrete must have attained a compressive strength of at least 15Mpa (2200psi) before the Safe-T-Strap can be used.

Notes:

1. The Safe-T-Strap anchor must be used in compliance with the requirements of OHS & Regulations for Construction Projects.
2. Only one worker is allowed to be attached to an anchor point
3. Workers using the system must be trained.
4. The employer must develop an emergency rescue plan and have all workers using the system trained on that plan.
5. This is a temporary anchor and must be cut off after completion of construction.



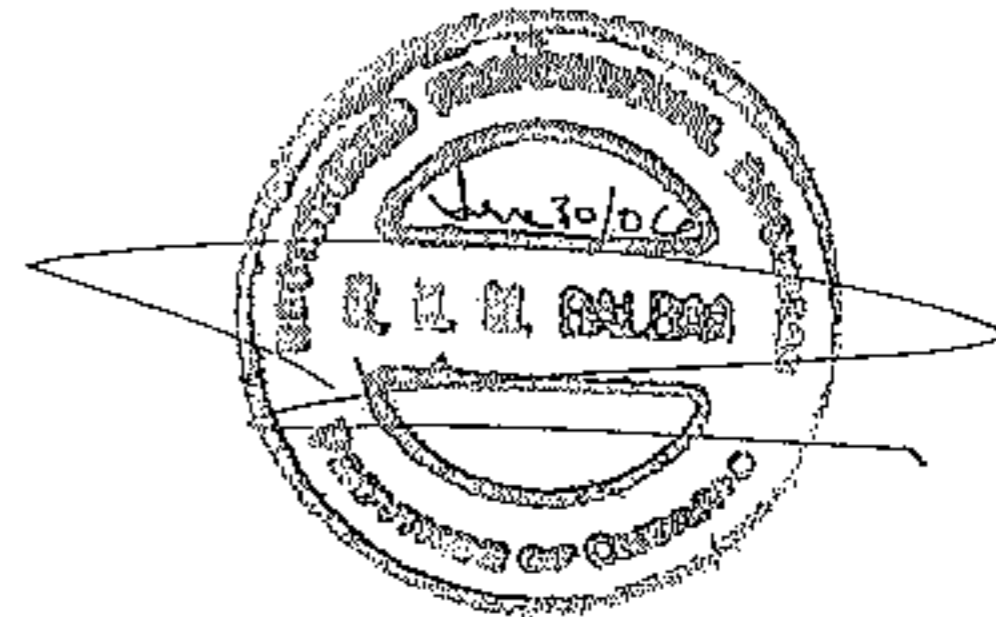
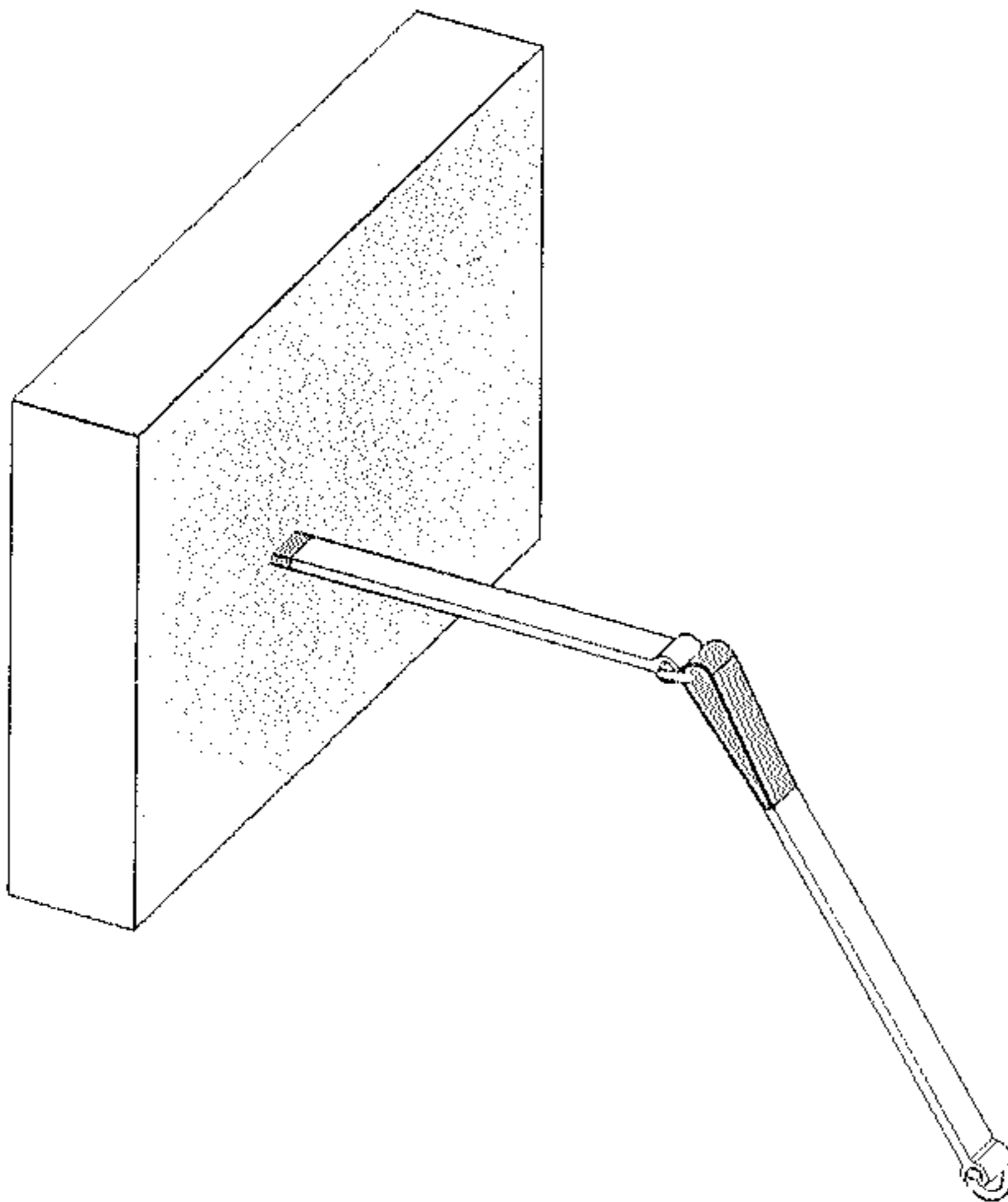
D	FINAL DRAWING	06-06-29	P. D.	R. H.
REV.	DESCRIPTION	YY-MM-DD	CHK	APP
REVISIONS				
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		HITE Engineering Corp. CONSULTING ENGINEERS 2660 Meadowvale Blvd. Unit 2 Mississauga, Ontario L5N 6M6 T:905-812-3709 F:905-812-3710		
TITLE: SAFE-T-STRAP EMBEDDING A HR-01 SAFE-T-STRAP FALL ARREST ANCHOR IN A REINFORCED CONCRETE COLUMN				
DRAWN BY:	DWG. ID:	DATE:	SCALE:	ENG'R APP'D:
P.BELASKIE	1042	06-29-06	NTS	R.BALBAA
PROJECT NUMBER:		DRAWING NO:		REV:
06-4840		06-4840-1042-00-00		0

Procedure:

1. To extend the length of an embedded Safe-T-Strap, choke the HR-01 Safe-T-Strap into the "D" ring of an existing, properly embedded Safe-T-Strap.
2. Maximum length of the extended strap must not exceed 6'-0" (1828.8mm)
3. Before using the extended Safe-T-Strap, ensure that a worker attached to the end D-ring of the strap, will not impacted the ground or an object in the case of a fall.

Notes:

1. The Safe-T-Strap anchor must be used in compliance with the requirements of OHSA & Regulations for Construction Projects.
2. Only one worker is allowed to be attached to an anchor point
3. Workers using the system must be trained.
4. The employer must develop an emergency rescue plan and have all workers using the system trained on that plan.
5. This is a temporary anchor and must be cut off after completion of construction.



0	FINAL DRAWING	06-06-29	P.B.	R.B.
REV.	DESCRIPTION	YY-MM-DD	CHK	APP

REVISIONS

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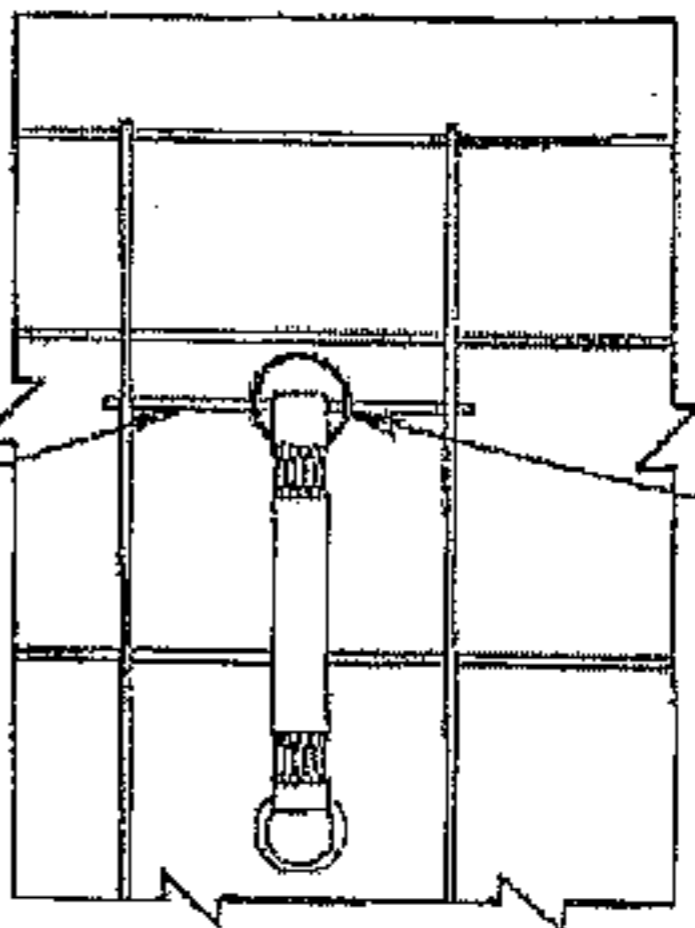


HITE Engineering Corp.
CONSULTING ENGINEERS
 2660 Meadowvale Blvd. Unit 2
 Mississauga, Ontario L5N 6M6
 T:905-812-3709
 F:905-812-3710

TITLE: **SAFE-T-STRAP**
 EXTENDING THE LENGTH OF
 AN EXISTING EMBEDDED SAFE-T-STRAP

DRAWN BY: P.BELASKIE	DWG ID: 1043	DATE: 06-29-06	SCALE: NTS	ENGR APP'D: R.BALBAA
PROJECT NUMBER: 06-4840		DRAWING NO: 06-4840-1043-00-00		REV: 0

2" (50mm) PIPE INSERT
GROUT WHEN SAFE-T-STRAP
IS REMOVED



300mm MIN.

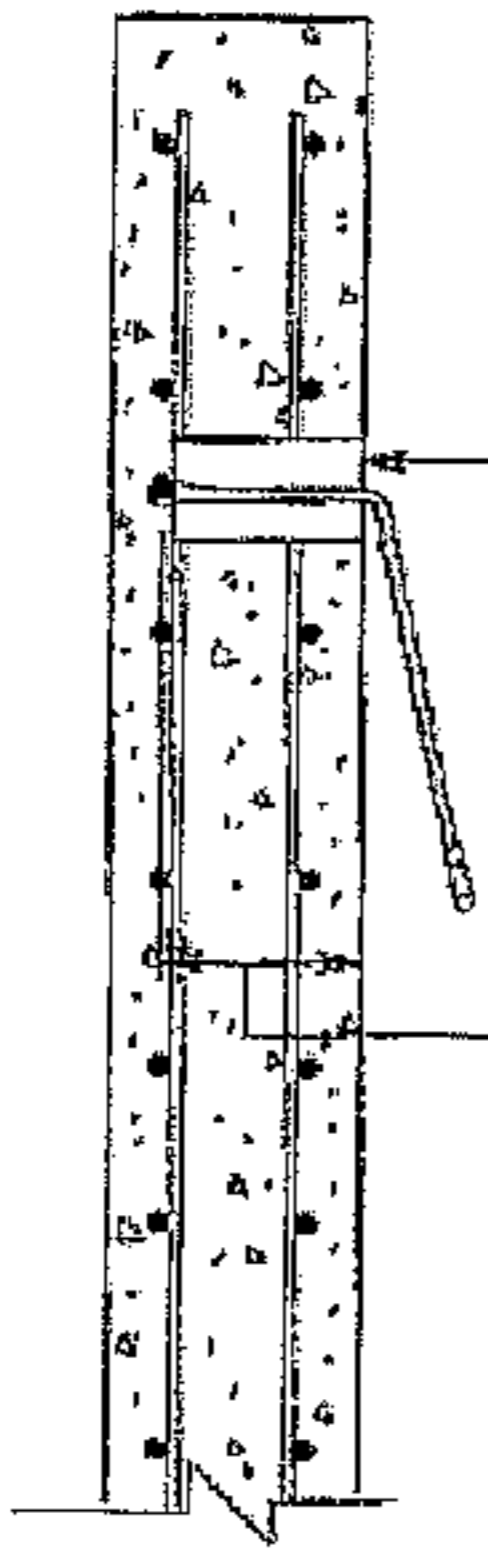
REBAR DOWEL
MIN. 19M x 200mm

SEE NOTES

PLAN VIEW

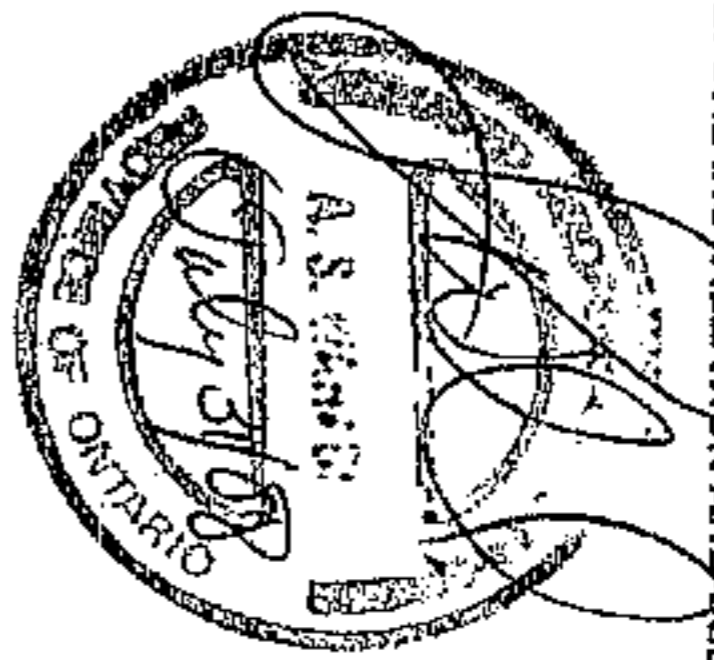
SAFE-T-STRAP (HR-01)
LOOPED END ATTACHED
TO REBAR DOWEL THROUGH
PIPE INSERT

3 1/2" (90mm) MIN CONC.
COVER FOR REBAR DOWEL



REINFORCED CONCRETE SLAB
(TYP. SECTION)

**CAUTION: REVIEW ALL MANUFACTURER'S
INSTRUCTIONS AND INSTRUCTIONS ON THIS
DRAWING BEFORE INSTALLATION AND USE.**



INSTALLATION & SAFE USE NOTES:

- 1- INSPECT THE UNWRAPPED SAFE-T-STRAP FOR ANY SIGNS OF DEFECTS, DO NOT USE IF ANY DEFECTS ARE FOUND, QUARANTINE AND DISPOSE OF DEFECTIVE UNITS.
 - 2- CUT PIPE INSERT TO CORRECT LENGTH AND BREAK ALL SHARP EDGES.
 - 3- ASSEMBLE THE SAFE-T-STRAP BY INSERTING THROUGH THE PIPE INSERT AND THEN INSERTING THE REBAR DOWEL THROUGH THE SAFE-T-STRAP END LOOP (SEE DRAWING).
 - 4- RECOMMENDED UNPROTECTED EDGE DISTANCE 4'-7" (1400mm) MIN. WHEN USED WITH A 4" (100mm) APPROVED SHOCK ABSORBING LANYARD.
 - 5- SECURELY TIE THE REBAR DOWEL TO THE FLOOR SLAB LOWER REBARS MIN. 12" FROM EDGE OF SLAB BEFORE PLACING CONCRETE AS SHOWN IN THE DRAWING. SECURE PIPE INSERT TO REBAR AS WELL.
 - 6- ENSURE THE GREEN PROTECTIVE SLEEVE IS IN PLACE PROPERLY AND COVERS THE WEBBING WHERE IT CONTACTS THE EDGE OF THE PIPE INSERT.
 - 7- INSPECT THE SAFE-T-STRAP INSTALLATION TO ENSURE ALL COMPONENTS ARE CORRECTLY SECURED IN PLACE PRIOR TO PLACING CONCRETE.
 - 8- ENSURE THE CONCRETE WALL HAS ATTAINED AT LEAST 7 DAYS STRENGTH FOR MIN. 20 MPa (3000 psi) BEFORE SAFE-T-STRAP IS USED.
 - 9- INSPECT THE SAFE-T-STRAP BEFORE EACH USE TO ENSURE ALL COMPONENTS ARE SECURED IN PLACE, AND
 - 10- KEEP A WRITTEN LOG OF ALL INSPECTIONS.
- INSPECTION RECOMMENDATIONS:**
- 1- FOLLOW ALL MANUFACTURER'S INSPECTION GUIDELINES BEFORE EACH USE.
 - 2- INSPECT THE SAFE-T-STRAP BEFORE EACH USE FOR ANY SIGNS OF TAMPERING, SERIOUS CORROSION OR DISTRESS.
 - 3- INSPECT THE ENTIRE LENGTH OF NYLON WEBBING FOR ANY SIGNS OF EXCESSIVE WEAR, FRAYING, CUTS, OR DISTRESS.
 - 4- REMOVE THE SAFE-T-STRAP FROM SERVICE UPON DISCOVERY OF ANY DEFECT IN THE SYSTEM AND NOT USE UNTIL EXAMINED AND APPROVED FOR USE BY A PROFESSIONAL ENGINEER, AND
 - 5- KEEP A WRITTEN LOG OF ALL INSPECTIONS.
- GENERAL NOTES:**
- 1- THE SAFE-T-STRAP IS DESIGNED WITH AN ULTIMATE STRENGTH OF 5000 LBS IN ACCORDANCE WITH THE REQUIREMENTS OF OSHA/CSA AND REGULATIONS & APPLICABLE CSA AND ANSI STANDARDS.
 - 2- THE SYSTEM MUST BE USED IN ACCORDANCE WITH THE REQUIREMENTS OF OSHA/CSA.
 - 3- A COMPETENT WORKER MUST INSTALL AND INSPECT THE SYSTEM AND ALL OTHER FALL PROTECTION EQUIPMENT TO ENSURE THAT ALL ARE IN A SAFE OPERATIONAL CONDITION. THE WORKER MUST REPORT ANY SIGNS OF DISTRESS AND THE SYSTEM NOT USED UNTIL IT HAS BEEN REPAIRED AND APPROVED FOR USE BY A PROFESSIONAL ENGINEER.
 - 4- WHEN APPROACHING WITHIN 2M (6.5') OF AN UNPROTECTED EDGE, A WORKER SHALL BE WEARING A FULL BODY HARNESS EQUIPPED WITH A SHOCK ABSORBING LANYARD AND TIED TO AN ANCHOR OR A LIFELINE SECURED TO A SAFETY ANCHOR OUTSIDE THE 2M (6.5') LIMIT.
 - 5- THE FULL BODY HARNESSES AND LANYARDS MUST COMPLY WITH THE REQUIREMENTS OF OSHA/CSA.
 - 6- DEVELOP AN EMERGENCY RESCUE PLAN.
 - 7- HITE ENGINEERING CORPORATION MUST BE NOTIFIED OF ANY CHANGES TO OR DEVIATION FROM THIS DRAWING.
- OCCUPATIONAL CLASSIFICATIONS ALLOWED TO USE THIS SYSTEM:**
- ALL OCCUPATIONAL CLASSIFICATIONS WHERE FALL PROTECTION IS REQUIRED. THE SAFE-T-STRAP MUST NOT BE USED IN ENVIRONMENTS WHERE THE SYSTEM COULD COME IN CONTACT WITH CORROSIVE MATERIALS.

INSTRUCTION	FRANK
REVISIONS	
DATE	BY
07-29-08	S.W.
08-01-08	S.W.
08-01-08	CHK
08-01-08	APP

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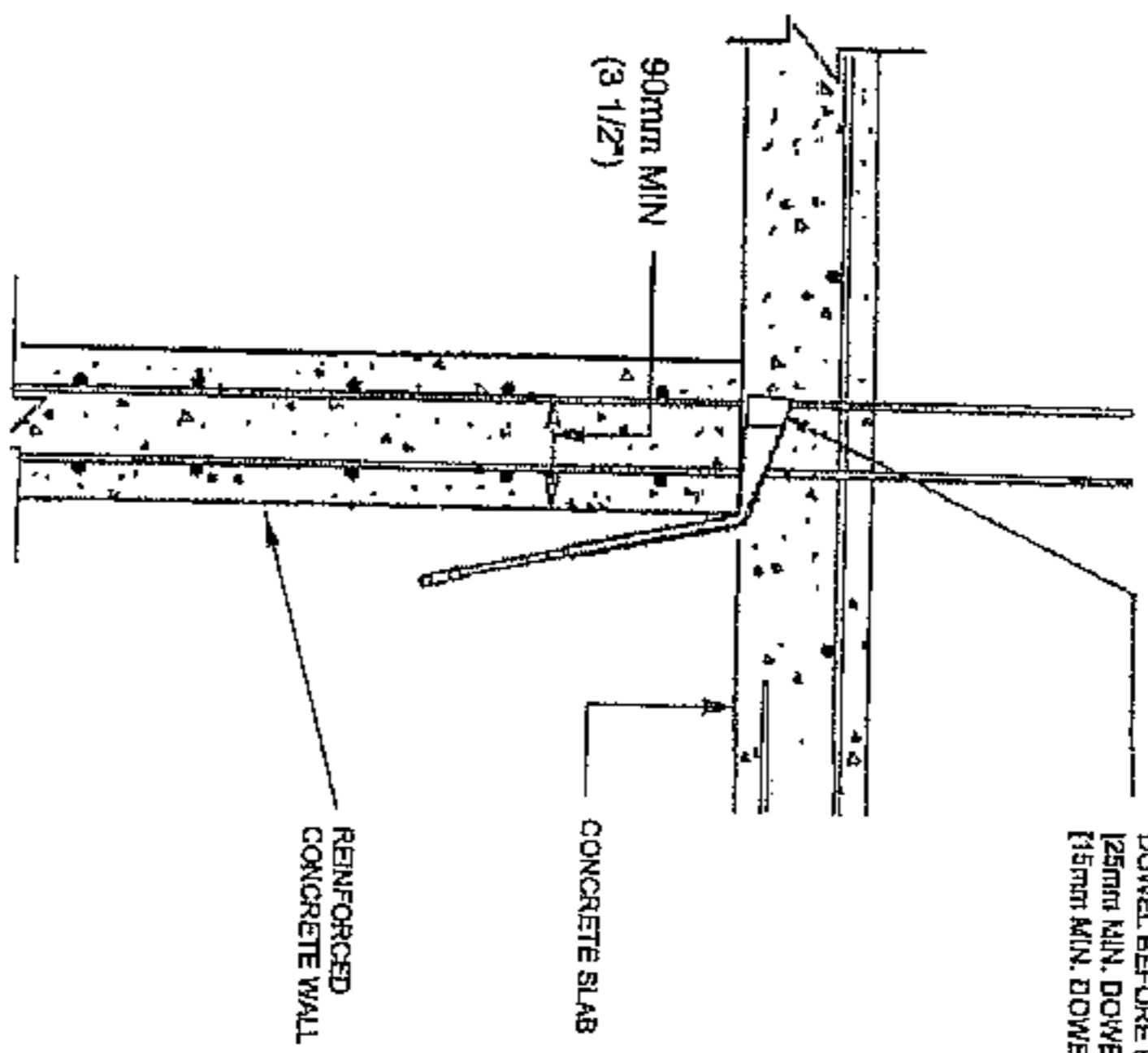
HITE Engineering Corp.
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2880 Meadowvale Blvd, Unit 2-3
Mississauga, Ontario L5N 6M6
T: 905-612-3708 F: 905-612-3710

**TYPICAL INSTALLATION OF SAFE-T-STRAP (HR-01) FOR
REINFORCED CONCRETE SLAB**

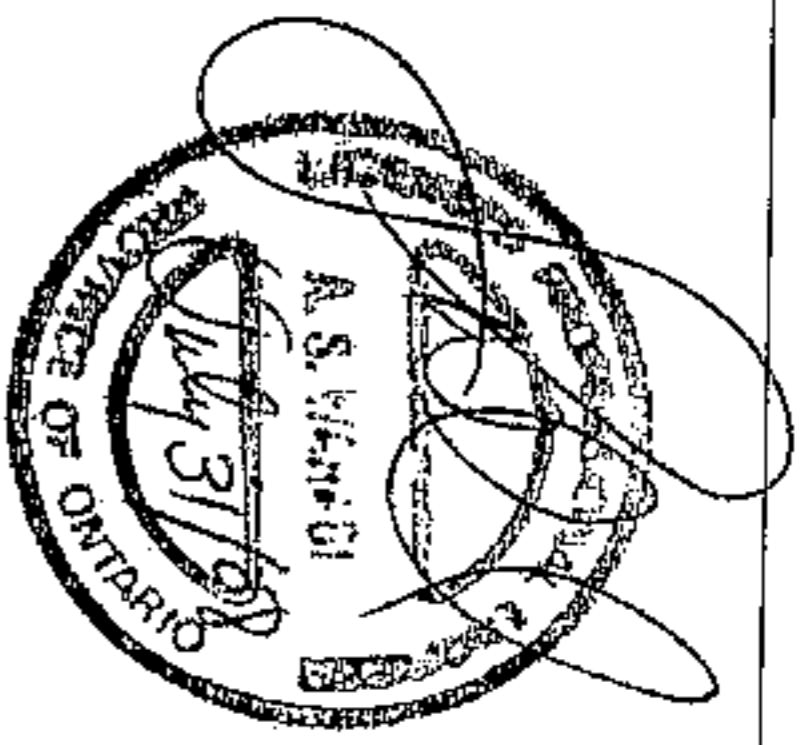
SAFE-T-STRAP
333 FRANKOM STREET, AJAX, ON.

DRAWN BY:	ENGR. APP'D:
D. SHARLEY	S. WAKHABI
SCALE:	DATE:
N.T.S.	07/29/08
DRAWING NO.:	SHEET #:
1288	3 of 4
	REV:
	0

CAUTION: REVIEW ALL MANUFACTURER'S INSTRUCTIONS AND INSTALLATION AND USE. DRAWING BEFORE INSTALLATION AND USE.



ATTACH SAFE-T-STRAP (HR-01) TO PROTRUDING REBAR DOWEL BEFORE POURING FLOOR SLAB.
 125mm MIN. DOWEL IF USED BEFORE POURING FLOOR SLAB
 15mm MIN. DOWEL IF USED AFTER POURING FLOOR SLAB



INSTALLATION & SAFE USE NOTES:

- 1-INSPECT THE UNWRAPPED SAFE-T-STRAP FOR ANY SIGNS OF DEFECTS, DO NOT USE IF ANY DEFECTS ARE FOUND, QUARANTINE AND DISPOSE OF DEFECTIVE UNITS.
 - 2-ASSEMBLE THE SAFE-T-STRAP BY INSERTING THE REAR PROTRUDING REBAR DOWEL THROUGH THE SAFE-T-STRAP END LOOP (SEE DRAWING), WITH MIN. VERTICAL REBAR EMBEDMENT LENGTH OF 90mm (3"), 3-ENSURE THE GREEN PROTECTIVE SLEEVE IS IN PLACE PROPERLY AND COVERS THE WEBBING WHERE IT CONTACTS THE EDGE OF WALL OR SLAB.
 - 4-INSPECT THE SAFE-T-STRAP INSTALLATION TO ENSURE ALL COMPONENTS ARE CORRECTLY SECURED IN PLACE PRIOR TO PLACING CONCRETE.
 - 5-ENSURE THE CONCRETE WALL HAS ATTAINED AT LEAST 7 DAYS STRENGTH FOR MIN. 20 MPa (3000 psi) BEFORE THE SAFE-T-STRAP IS USED.
 - 6-FORMWORK ENGINEER MUST BE CONSULTED FOR SPECIAL ANCHORAGE REQUIREMENTS AND APPROVAL IF SAFE-T-STRAP IS INTENDED TO BE USED PRIOR TO POURING CONCRETE SLAB.
 - 7-INSPECT THE SAFE-T-STRAP BEFORE EACH USE TO ENSURE ALL COMPONENTS ARE SECURED IN PLACE, AND
 - 8-KEEP A WRITTEN LOG OF ALL INSPECTIONS.
- INSPECTION RECOMMENDATIONS:**
- 1-FOLLOW ALL MANUFACTURER'S INSPECTION GUIDELINES BEFORE EACH USE.
 - 2-INSPECT THE SAFE-T-STRAP BEFORE EACH USE FOR ANY SIGNS OF TAMPERING, SERIOUS CORROSION OR DISTRESS.
 - 3-INSPECT THE ENTIRE LENGTH OF NYLON WEBBING FOR ANY SIGNS OF EXCESSIVE WEAR, FRAYING, CUTS, OR DISTRESS.
 - 4-REMOVE THE SAFE-T-STRAP FROM SERVICE UPON DISCOVERY OF ANY DEFECT IN THE SYSTEM AND NOT USE UNTIL EXAMINED AND APPROVED FOR USE BY A PROFESSIONAL ENGINEER, AND
 - 5-KEEP A WRITTEN LOG OF ALL INSPECTIONS.
- OCCUPATIONAL CLASSIFICATIONS**
 ALLOWED TO USE THIS SYSTEM:
 ALL OCCUPATIONAL CLASSIFICATIONS WHERE FALL PROTECTION IS REQUIRED. THE SAFE-T-STRAP MUST NOT BE USED IN ENVIRONMENTS WHERE THE SYSTEM COULD COME IN CONTACT WITH CORROSIVE MATERIALS.

PROJECT NUMBER: 08-8027

GENERAL NOTES:
 1-THE SAFE-T-STRAP IS DESIGNED WITH AN ULTIMATE STRENGTH OF 5000 LBS IN ACCORDANCE WITH THE REQUIREMENTS OF OSHA/CHSA REGULATIONS & APPLICABLE CSA AND ANSI STANDARDS.
 2-THE SYSTEM MUST BE USED IN ACCORDANCE WITH THE REQUIREMENTS OF OSHA/CHSA.
 3-A COMPETENT WORKER MUST INSTALL AND INSPECT THE SYSTEM AND ALL OTHER FALL PROTECTION EQUIPMENT TO ENSURE THAT ALL ARE IN A SAFE OPERATIONAL CONDITION. THE WORKER MUST REPORT ANY SIGNS OF DISTRESS AND THE SYSTEM NOT USED UNTIL IT HAS BEEN REPAIRED AND APPROVED FOR USE BY A PROFESSIONAL ENGINEER.
 4-WHEN APPROACHING WITHIN 2M (6.5') OF AN UNPROTECTED EDGE, A WORKER SHALL BE WEARING A FULL BODY HARNESS EQUIPPED WITH A SHOCK ABSORBING LANYARD AND TIED TO AN ANCHOR OR LIFELINE SECURED TO A SAFETY ANCHOR OUTSIDE THE 2M (6.5') LIMIT.
 5-THE FULL BODY HARNESSES AND LANYARDS MUST COMPLY WITH THE REQUIREMENTS OF OSHA/CHSA.
 6-DEVELOP AN EMERGENCY RESCUE PLAN.
 7-HITE ENGINEERING CORPORATION MUST BE NOTIFIED OF ANY CHANGES TO OR DEVIATION FROM THIS DRAWING.

DRAWN BY: D. SMIRLEY	ENGR. APPROV: S. WAHABI
SCALE: N.T.S.	DATE: 07/29/08
DRAWING NO: 1226	SHEET #: 1 of 4
	REV: 0



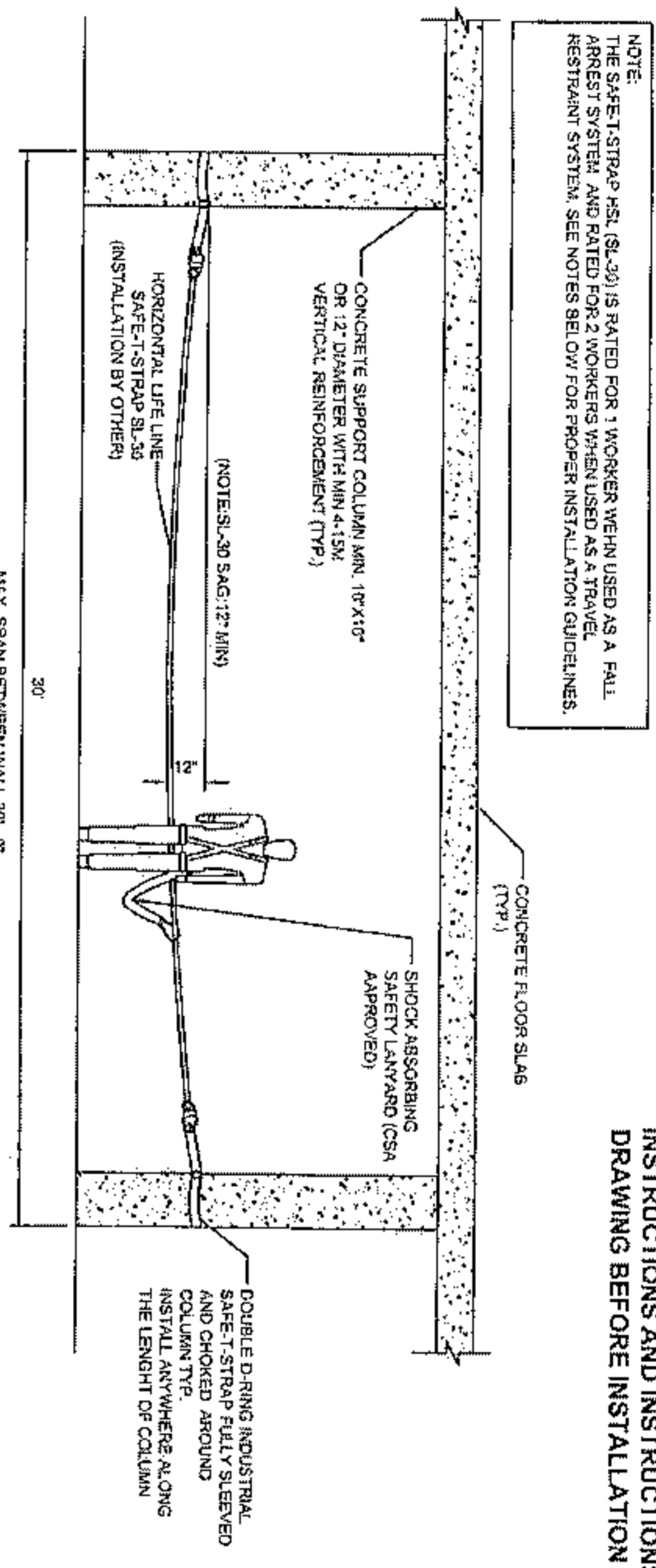
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TYPICAL INSTALLATION OF SAFE-T-STRAP (HR-01) FOR REINFORCED CONCRETE WALLS
 SAFE-T-STRAP
 333 FRANKOM STREET, AJAX, ON.

THE INFORMATION CONTAINED HEREIN IS PROPRIETARY TO HITE ENGINEERING AND ANY AND ALL REBAR, REINFORCED OR EQUIPMENT IS TO BE USED AS SHOWN IN THE DRAWING. NO PART OF THIS DOCUMENT IS TO BE REPRODUCED OR USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF HITE ENGINEERING. THE SAME AND THE INFORMATION CONTAINED THEREIN ARE LOANED TO YOU BY THE CLIENT.

REVISIONS	DATE	BY	APP
07-29-08	S.M.	S.W.	
MAY 03-07	C.P.K.	A.P.P.	

CAUTION: REVIEW ALL MANUFACTURER'S INSTRUCTIONS AND INSTRUCTIONS ON THIS DRAWING BEFORE INSTALLATION AND USE.



NOTE:
THE SAFE-T-STRAP HSL (SL-30) IS RATED FOR 1 WORKER WHEN USED AS A FALL ARREST SYSTEM AND RATED FOR 2 WORKERS WHEN USED AS A TRAVEL RESTRAINT SYSTEM. SEE NOTES BELOW FOR PROPER INSTALLATION GUIDELINES.

FRONT ELEVATION

- SL-SERIES INSTALLATION AND SAFE USE NOTES:**
1. ENSURE THAT THE CONCRETE COLUMNS HAVE ATTAINED AT LEAST 7 DAYS STRENGTH FOR MIN. 20 MPa (3000 psi) CONCRETE BEFORE ASSEMBLING THE TRAVEL RESTRAINT SYSTEM TO THE INDUSTRIAL SAFE-T-STRAPS.
 2. INSPECT THE SAFE-T-STRAP SL-SERIES TRAVEL RESTRAINT SYSTEM AND THE INDUSTRIAL SAFE-T-STRAPS FOR ANY SIGNS OF DEFECTS. DO NOT USE IF ANY DEFECTS ARE FOUND. QUARANTINE AND DISPOSE OF DEFECTIVE UNITS.
 3. ENSURE THE INDUSTRIAL SAFE-T-STRAPS ARE FULLY SLEEVED WITH THE GREEN SLEEVE FROM D-RING TO D-RING.
 4. WRAP AND CHOKE INDUSTRIAL SAFETY STRAP AROUND THE CONCRETE COLUMN AND THEN SECURELY ATTACH THE TRAVEL RESTRAINT SYSTEM SELF-LOCKING SNAP HOOKS AT EACH END TO THE SAFE-T-STRAPS AS SHOWN IN THE DRAWING.
 5. ADJUST TENSION IN THE TRAVEL RESTRAINT SYSTEM SO THAT THE SAG IN THE LINE IS NOT LESS THAN 12" (460mm).
 6. INSPECT THE SAFE-T-STRAPS AND THE TRAVEL RESTRAINT SYSTEM TO ENSURE ALL COMPONENTS ARE SECURED IN PLACE.
 7. TOTAL LENGTH OF SHOCK ABSORBING LANYARD + SAG IN THE TRAVEL RESTRAINT SYSTEM MUST BE SUCH THAT THE WORKER WILL BE ABLE TO TRAVEL TO A MAXIMUM OF 2' FROM THE UNPROTECTED EDGE WHEN THE HSL IS USED AS A TRAVEL RESTRAINT SYSTEM.

8. TOTAL LENGTH OF SHOCK ABSORBING LANYARD + SAG IN THE HSL SYSTEM MUST BE SUCH THAT THE WORKER WILL NOT BE SUBJECTED TO A FREE FALL GREATER THAN 4' WHEN THE HSL IS USED AS A FALL ARREST SYSTEM.
- INSPECTION RECOMMENDATIONS:**
1. FOLLOW ALL MANUFACTURER'S INSPECTION GUIDELINES BEFORE EACH USE.
 2. INSPECT THE SAFE-T-STRAPS FOR ANY SIGNS OF TAMPERING, SERIOUS CORROSION OR DISTRESS.
 3. INSPECT THE SELF-LOCKING SNAP HOOKS AND THE CAM BUCKLE OF THE TRAVEL RESTRAINT SYSTEM FOR ANY SIGNS OF TAMPERING, SERIOUS CORROSION OR DISTRESS.
 4. INSPECT THE ENTIRE LENGTH OF NYLON WEBBING FOR ANY SIGNS OF EXCESSIVE WEAR, FRAYING, CUTS, OR DISTRESS.
 5. REMOVE THE TRAVEL RESTRAINT SYSTEM OR SAFE-T-STRAPS FROM SERVICE UPON DISCOVERY OF ANY DEFECT IN THE SYSTEM AND NOT USE UNTIL EXAMINED AND APPROVED FOR USE BY A PROFESSIONAL ENGINEER.
 6. KEEP A WRITTEN LOG OF ALL INSPECTIONS.

REV	DESCRIPTION	DATE	BY	APP
0	FINAL	09-26-08	S.W.	S.W.
1	REVISIONS	09-26-08	S.W.	S.W.

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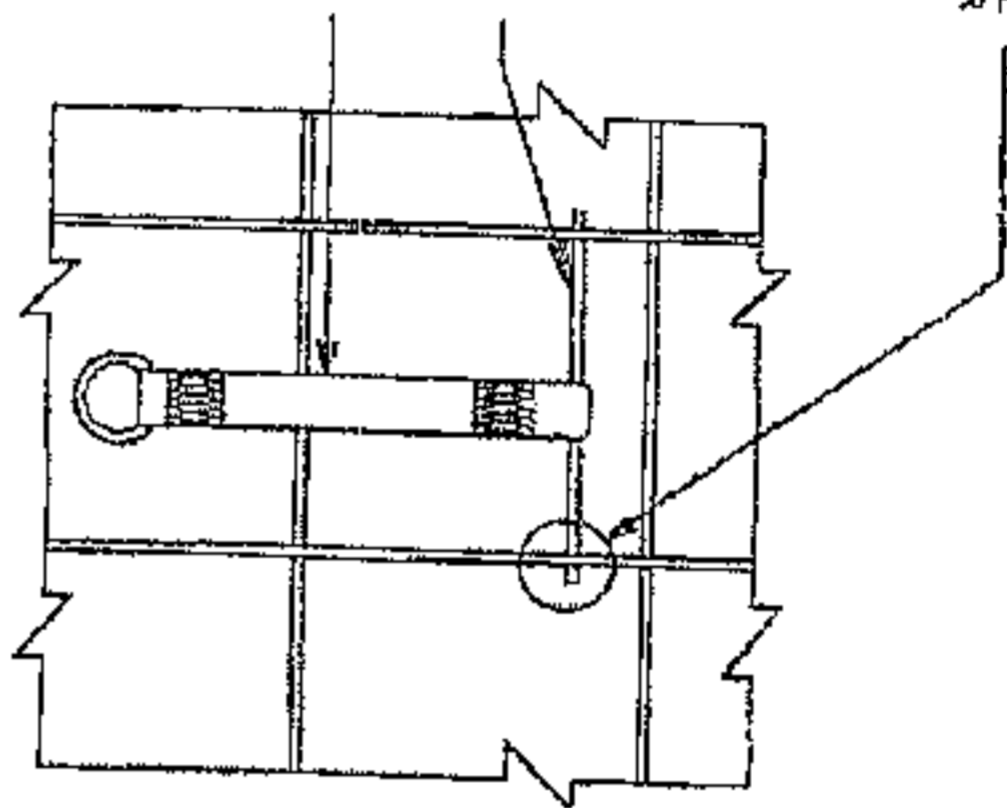
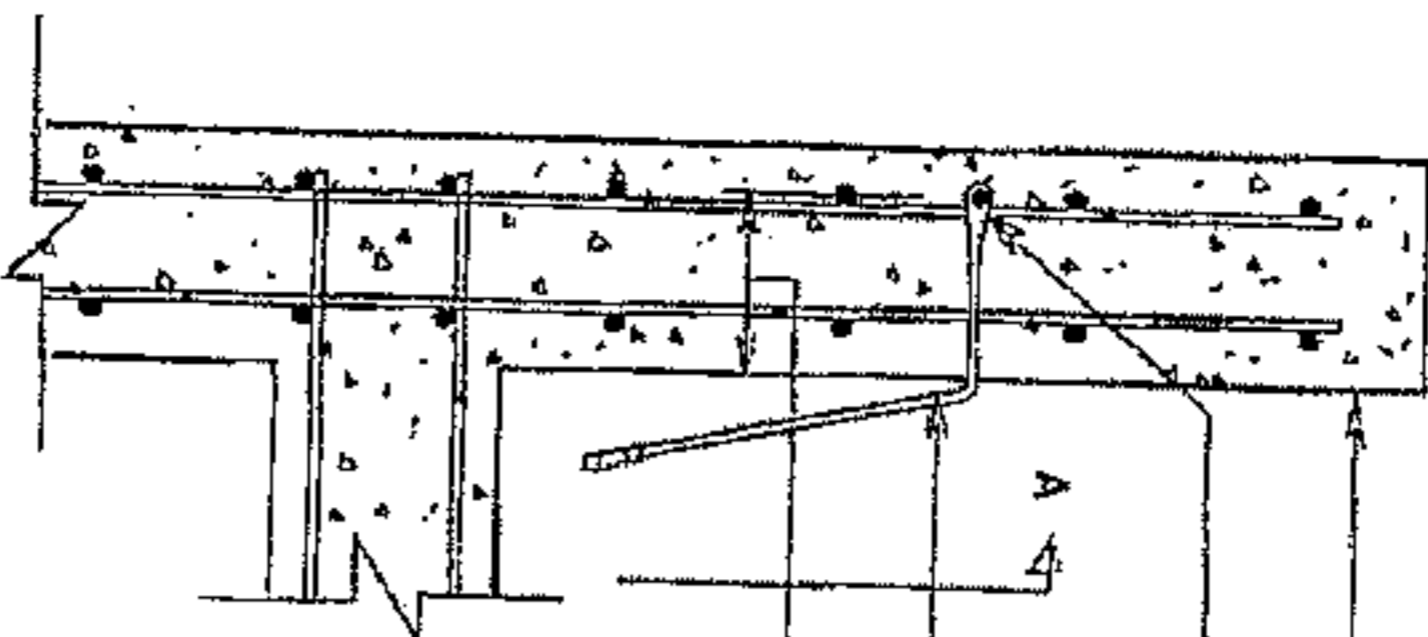
SAFE-T-STRAP
 SAFE-T-STRAP SL 30 STATIC LINE
 INSTALLATION BETWEEN VERTICAL
 CONCRETE COLUMNS

DRAWN BY: D. SHIPLEY	ENGR. APPROVE: S. WAHABI
SCALE: N.T.S.	DATE: 09/26/08
DRAWING NO: 1307	SHEET #: 1 of 1
	REV: 0

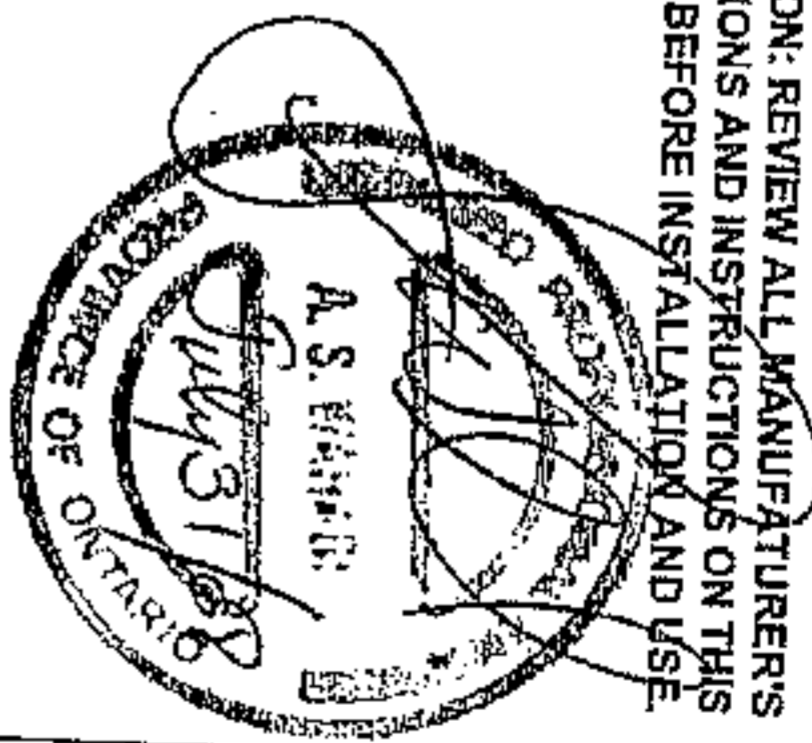
[Handwritten signature and date: Oct 6/08]

GENERAL NOTES:
 1. THE SL-SERIES TRAVEL RESTRAINT SYSTEM IS DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF OSHA/ANSI, REGULATIONS & APPLICABLE CSA AND ANSI STANDARDS.
 2. THE SYSTEM MUST BE USED IN ACCORDANCE WITH THE REQUIREMENTS OF OSHA/ANSI.
 3. A COMPETENT WORKER MUST INSTALL AND INSPECT THE SYSTEM AND ALL OTHER FALL PROTECTION EQUIPMENT TO ENSURE THAT ALL ARE IN A SAFE OPERATIONAL CONDITION. THE WORKER MUST REPORT ANY SIGNS OF DISTRESS AND THE SYSTEM NOT USED UNTIL IT HAS BEEN REPAIRED AND APPROVED FOR USE BY A PROFESSIONAL ENGINEER.
 4. WHEN APPROACHING WITHIN 2M (6.5') OF AN UNPROTECTED EDGE, A WORKER SHALL WEAR A FULL BODY HARNESS EQUIPPED WITH A SHOCK ABSORBING LANYARD AND TIED TO AN ANCHOR OR A LIFE LINE SECURED TO A SAFETY ANCHOR OUTSIDE THE 2M (6.5') LIMIT.
 5. THE FULL BODY HARNESSES AND LANYARDS MUST COMPLY WITH THE REQUIREMENTS OF OSHA/ANSI.
 6. WRITE ENGINEERING CORPORATION MUST BE NOTIFIED OF ANY CHANGES TO OR DEVIATION FROM THIS DRAWING.
 OCCUPATIONAL CLASSIFICATIONS ALLOWED TO USE THIS SYSTEM:
 ALL OCCUPATIONAL CLASSIFICATIONS WHERE FALL PROTECTION IS REQUIRED. THE SAFE-T-STRAP MUST NOT BE USED IN ENVIRONMENTS WHERE THE SYSTEM COULD COME IN CONTACT WITH CONCRETE MATERIALS.

DOWEL TIED TO VERTICAL OR HORIZONTAL REBAR



CAUTION: REVIEW ALL MANUFACTURER'S INSTRUCTIONS AND INSTRUCTIONS ON THIS DRAWING BEFORE INSTALLATION AND USE.



INSTALLATION & SAFE USE NOTES:
 1- INSPECT THE SAFE-T-STRAP FOR ANY SIGNS OF DEFECTS, DO NOT USE IF ANY DEFECTS ARE FOUND, QUARANTINE AND DISPOSE OF DEFECTIVE UNITS.
 2- ASSEMBLE THE SAFE-T-STRAP BY INSERTING THE REBAR DOWEL THROUGH THE SAFE-T-STRAP END LOOP (SEE DRAWING).
 3- SECURELY TIE THE REBAR DOWEL TO THE HORIZONTAL OR VERTICAL REBARS AS SHOWN IN THE DRAWING.
 4- ENSURE THE GREEN PROTECTIVE SLEEVE IS IN PLACE PROPERLY AND COVERS THE WEBBING WHERE IT CONTACTS THE EDGE OF WALL OR SLAB.
 5- INSPECT THE SAFE-T-STRAP INSTALLATION TO ENSURE ALL COMPONENTS ARE CORRECTLY SECURED IN PLACE PRIOR TO PLACING CONCRETE.
 6- ENSURE THE CONCRETE WALL HAS ATTAINED AT LEAST 7 DAYS STRENGTH FOR MIN. 20 MPa (3000 psi) BEFORE SAFE-T-STRAP IS USED.
 7- INSPECT THE SAFE-T-STRAP BEFORE EACH USE TO ENSURE ALL COMPONENTS ARE SECURED IN PLACE, AND
 8- KEEP A WRITTEN LOG OF ALL INSPECTIONS.

INSPECTION RECOMMENDATIONS:
 1- FOLLOW ALL MANUFACTURER'S INSPECTION GUIDELINES BEFORE EACH USE.
 2- INSPECT THE SAFE-T-STRAP BEFORE EACH USE FOR ANY SIGNS OF TAMPERING, SERIOUS CORROSION OR DISTRESS.
 3- INSPECT THE ENTIRE LENGTH OF NYLON WEBBING FOR ANY SIGNS OF EXCESSIVE WEAR, FRAYING, CUTS, OR DISTRESS.
 4- REMOVE THE SAFE-T-STRAP FROM SERVICE UPON DISCOVERY OF ANY DEFECT IN THE SYSTEM AND NOT USE UNTIL EXAMINED AND APPROVED FOR USE BY A PROFESSIONAL ENGINEER, AND
 5- KEEP A WRITTEN LOG OF ALL INSPECTIONS.

PROJECT NUMBER: 08-6027

GENERAL NOTES:
 1- THE SAFE-T-STRAP IS DESIGNED WITH A ULTIMATE STRENGTH OF 6000LBS IN ACCORDANCE WITH THE REQUIREMENTS OF OSHA/OSHA REGULATIONS & APPLICABLE CSA AND ANSI STANDARDS.
 2- THE SYSTEM MUST BE USED IN ACCORDANCE WITH THE REQUIREMENTS OF OSHA/OSHA. A COMPETENT WORKER MUST INSTALL AND INSPECT THE SYSTEM AND ALL OTHER FALL PROTECTION EQUIPMENT TO ENSURE THAT ALL ARE IN A SAFE OPERATIONAL CONDITION. THE WORKER MUST REPORT ANY SIGNS OF DISTRESS AND THE SYSTEM NOT USED UNTIL IT HAS BEEN REPAIRED AND APPROVED FOR USE BY A PROFESSIONAL ENGINEER.
 3- WHEN APPROACHING WITHIN 2M (6.5') OF AN UNPROTECTED EDGE, A WORKER SHALL BE WEARING A FULL BODY HARNESS EQUIPPED WITH A SHOCK ABSORBING LANYARD AND TIED TO AN ANCHOR OR A LIFELINE SECURED TO A SAFETY ANCHOR OUTSIDE THE 2M (6.5') LIMIT.
 4- THE FULL BODY HARNESSES AND LANYARDS MUST COMPLY WITH THE REQUIREMENTS OF OSHA/OSHA.
 5- DEVELOP AN EMERGENCY RESCUE PLAN.
 6- HITE ENGINEERING CORPORATION MUST BE NOTIFIED OF ANY CHANGES TO OR DEVIATION FROM THIS DRAWING.

OCCUPATIONAL CLASSIFICATIONS ALLOWED TO USE THIS SYSTEM:
 ALL OCCUPATIONAL CLASSIFICATIONS WHERE FALL PROTECTION IS REQUIRED, THE SAFE-T-STRAP MUST NOT BE USED IN ENVIRONMENTS WHERE THE SYSTEM COULD COME IN CONTACT WITH CORROSIVE MATERIALS.

REINFORCED CONCRETE WALL INSTALLATION (TYP)

DESIGN BY:	ENGINEER:
D. SHIPLEY	S. WAHABI
SCALE:	DATE:
N.T.S.	07/29/08
DRAWING NO:	SHEET #:
1288	2 of 4
	REV:
	0

REVISION: FINAL

DESCRIPTION: REVISIONS

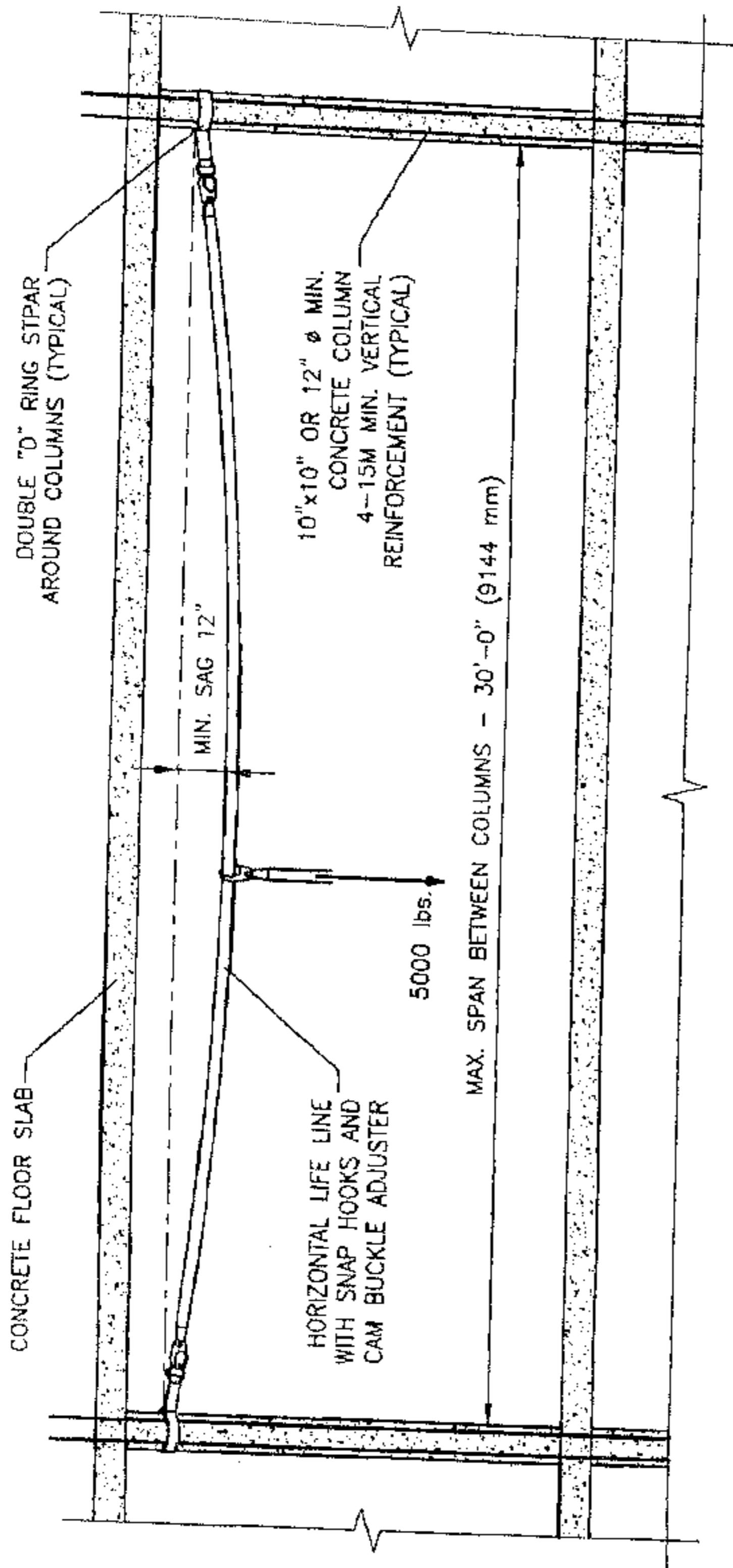
DATE: 07-28-08
 DRAWN BY: S.W.
 CHECKED BY: S.W.
 APPROVED BY: S.W.

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TYPICAL INSTALLATION OF SAFE-T-STRAP (HR-01) FOR CAST-IN-PLACE REINFORCED CONG. WALLS
 333 FRANKOM STREET, AJAX, ON.


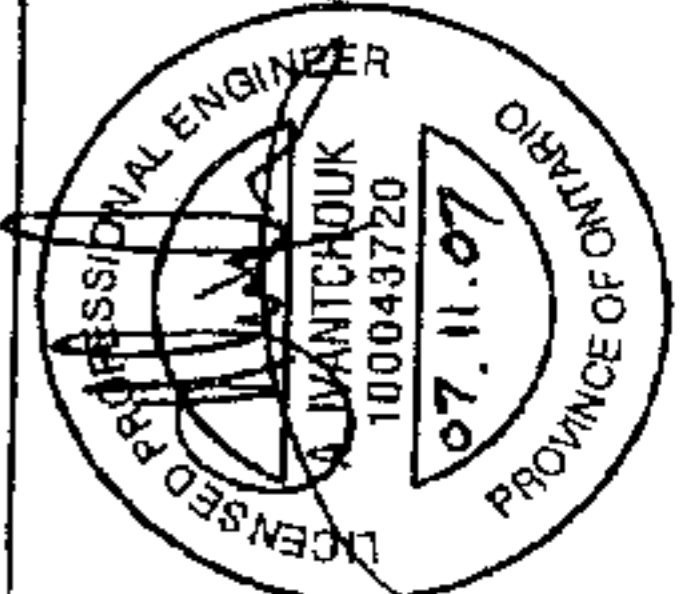
INDUSTRIAL APPLIED TO Concrete Column



1 SK-2 N.T.S. SAFE-T-STRAP INSTALLATION

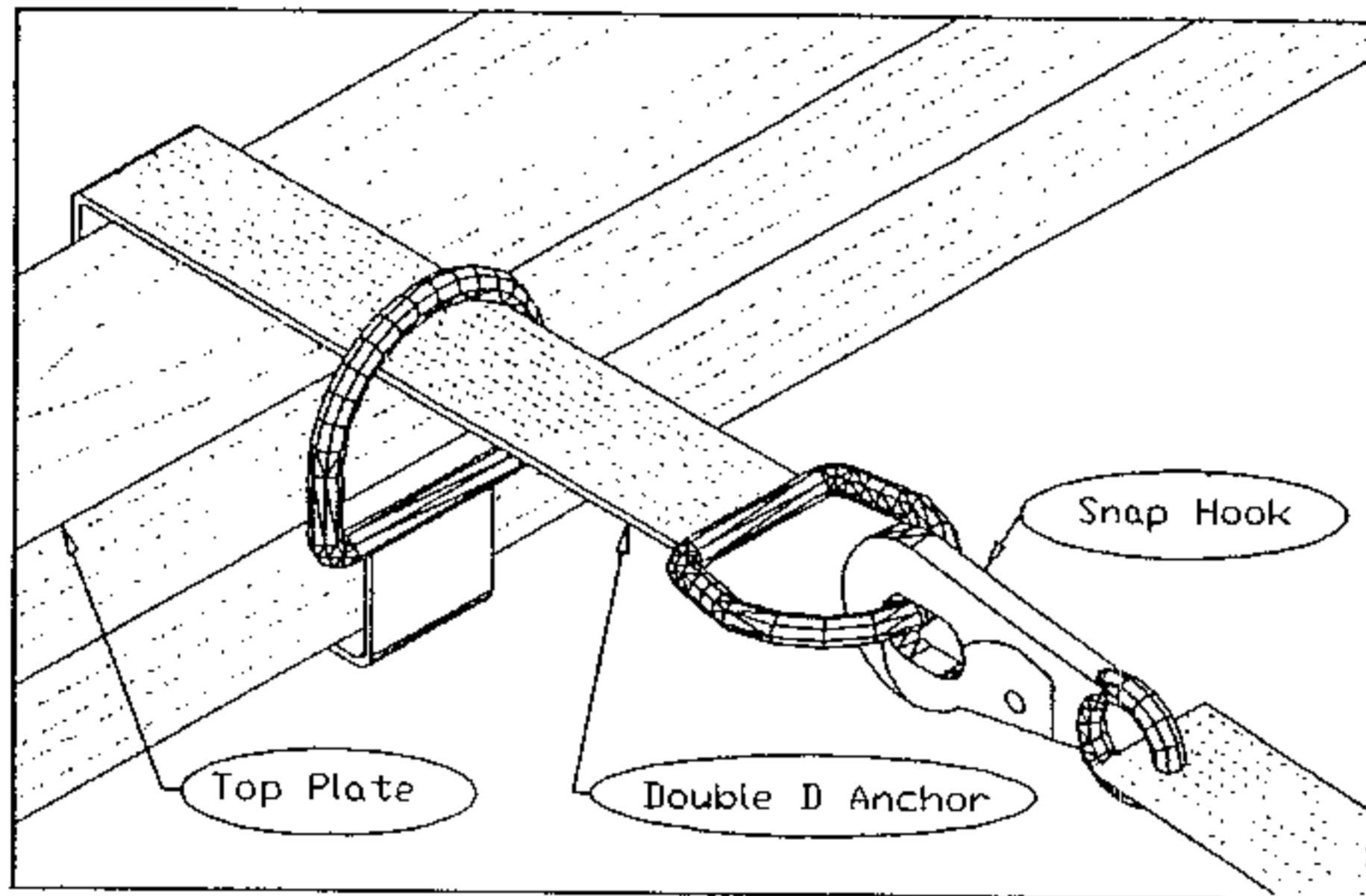
NOTES:

1. ANY DEVIATION FROM THE CONDITIONS SHOWN ON THE DRAWING SHALL BE SUBMITTED TO THE ENGINEER.
2. CONTRACTOR HAS TO VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO COMMENCING WITH THE WORK.
3. DESIGN LOAD: 5000 lbs (22.24kN) IN ANY DIRECTION.
4. MINIMUM CONCRETE STRENGTH IN COLUMNS SHALL BE 20 MPa.
5. SAFE-T-STRAP FALL ARREST LINE SHALL BE ATTACHED TO SAFE-T-STRAPS WITH SELF-LOCKING SNAP HOOKS.
6. ADJUST TENSION SO THAT SAG IS NOT LESS THAN 12" (305 mm).
7. A WORKER ATTACHED TO LIFE LINE MUST WEAR A FULL BODY HARNESS.

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SAFE-T-STRAP			
<p>project</p> <p>TYPICAL INSTALLATION FOR SAFE-T-STRAP LIFE LINE BETWEEN COLUMNS</p>		<p>drawing No.</p> <p>SK-2</p>	
<p>date</p> <p>OCT. 06, 2007</p>		<p>project No.</p> <p>0840</p>	

3) Install Anchors

Install the two Safe-T-Strap™ Double D-ring anchor straps (IS-01) on the top of the wall by wrapping the strap around the double top plate. (See figure 3 below). The maximum distance between the straps should not be more than 30 feet.



Double D-ring installed at top plate

Figure 3

4) Install Safe-T-Strap™ HLL

Attach the snap hooks of the Safe-T-Strap™ HLL (TR-XX) to the D-ring of each of the anchors. (See figure 3 above).

5) Adjust Tension and Length

Use the cam buckle adjuster to remove the excess slack in the line. The minimum sag for 30 feet is approximately 4 inches.

Do not over tighten !! –