

GENERAL

- STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS, ETC. FOR DETAILED DIMENSIONS OF DOORS, WINDOWS AND DUCT OPENINGS, REBATES, CHASES, NAILERS, ETC.
- THE CONTRACTOR SHALL COMPARE ALL STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS AND SHALL CHECK AND VERIFY ALL DIMENSIONS BEFORE COMMENCING WITH THE WORK. ANY DISCREPANCIES NOT REPORTED TO THE ARCHITECT FOR CLARIFICATION WILL BECOME THE RESPONSIBILITY OF THE CONTRACTOR.
- ATTACHMENTS FOR MECHANICAL, ELECTRICAL AND OTHER SERVICES SHALL BE MADE BY USING APPROVED CLAMPING DEVICES OR U-BOLT TYPE CONNECTORS. NO DRILLING OR CUTTING SHALL BE DONE UNLESS APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER FOR THE DESIGN AND INSPECTION OF SHORING AND CONCRETE FORM WORK AS PER U.C.B. REGULATION 3428, UNDERPIN WHERE NECESSARY ANY EXISTING STRUCTURE AND PROVIDE ALL BRACING, SHORING, ETC. TO SUPPORT ADJOINING SOIL, FLOORS, WALLS, ETC. AS REQUIRED TO RETAIN ALL WORK IN PLACE AND PREVENT TEMPORARY OVER STRESSING OF THE STRUCTURE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY PROVIDING THE COMPONENTS THAT MAY BE NECESSARY FOR CONSTRUCTION SAFETY AND THE DESIGN AND ERECTION OF ALL TEMPORARY STRUCTURES.
- THESE DRAWINGS CAN BE USED FOR CONSTRUCTION ONLY IF "ISSUED FOR CONSTRUCTION" IS MARKED IN THE REVISION COLUMN.

DESIGN LOADS	LIVE LOAD	SUPERIMPOSED LOAD
-ROOF SNOW	45 PSF	INCLUDES RAIN COMPONENT
-MAIN FLOOR	100 PSF	
-SEISMIC AND WIND FORCES	THE NEW MEMBERS HAVE BEEN DESIGNED FOR WIND AND SEISMIC LOADING IN ACCORDANCE WITH PART 4 OF THE 2012 CBC/C	

THE SEISMIC CAPACITY OF THE ORIGINAL BUILDING HAS NOT BEEN DIMINISHED FROM ITS ORIGINAL DESIGN CAPACITY

5x2.4 KPa 5x+0.2 KPa 0.90+0.44 KPa
5x(0.2)+1.1 5x(0.5)+0.71 5x(1.0)+0.33 5x(2.0)+0.11 5x(4.0)+0.53

THE CONTRACTOR SHALL ENSURE THAT THE CONSTRUCTION LOADS MUST NOT EXCEED THE ABOVE DESIGN LOADS.

SEE THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FIRE RATINGS AND LOCATIONS.

NO POURING ANY CONCRETE OR OTHERWISE CONCEALING ANY STRUCTURAL ELEMENTS THE CONTRACTOR SHALL NOTIFY LONDON MAH AND ASSOCIATES AND GIVE ADEQUATE ACCESS AND REASONABLE TIME IN ORDER TO INSPECT THE CONDITIONS OF THE WORK.

FIELD REVIEW

LONDON MAH & ASSOCIATES (LMA) PROVIDES FIELD REVIEW ONLY FOR THE WORK SHOWN ON THE STRUCTURAL DRAWINGS PREPARED BY LMA. THIS REVIEW IS A PERIODIC REVIEW AT THE PROFESSIONAL JUDGEMENT OF LMA. THE PURPOSE OF THIS REVIEW IS TO ASCERTAIN THAT THE WORK IS IN GENERAL CONFORMANCE WITH THE PLANS AND SUPPORTING DOCUMENTS PREPARED BY LMA AND TO FACILITATE COMPLETION OF THE LETTERS OF ASSURANCE REQUIRED BY BUILDING CODE REQUIREMENTS. FIELD REVIEW BY LMA IS NOT CARRIED OUT FOR THE CONTRACTOR'S BENEFIT, NOR DOES IT MAKE LMA GUARANTORS OF THE CONTRACTOR'S WORK. IT REMAINS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE HIS OWN QUALITY CONTROL AND TO PERFORM THE WORK WITH GOOD WORKSMANSHIP AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.

THE CONTRACTOR MUST PROVIDE SAFE ACCESS TO ALL AREAS REQUIRING INSPECTION IN ACCORDANCE WITH THE CURRENT UCB OCCUPATIONAL HEALTH & SAFETY REGULATIONS.

SITE PREPARATION

THE CONTRACTOR SHALL PERUSE THE GEOTECHNICAL REPORT IN CONJUNCTION WITH THE SITE PLANS IN ORDER TO ASCERTAIN THE WORK REQUIRED. CONSULT THE GEOTECHNICAL ENGINEER AS TO BACKFILLING MATERIALS ETC.

FOUNDATIONS

- THE FOUNDATIONS HAVE BEEN DESIGNED FOR THE FOLLOWING MAXIMUM ALLOWABLE BEARING PRESSURES. (GEOGRAPHIC REPORT DATED MARCH 8, 2011)
- | | |
|------------|----------|
| FOUNDATION | 2500 PSF |
|------------|----------|
- BEARING SURFACES MUST BE INSPECTED AND CONFIRMED BY A GEOLOGICAL ENGINEER PRIOR TO POURING FOOTING CONCRETE.

CONCRETE AND REINFORCING

- REFERENCE STANDARDS
- | | |
|-------------------|--|
| CSA-A23.1-04 | CONC. MATERIALS AND METHOD OF CONC. CONSTN |
| CSA-A23.2-04 | METHODS OF TEST FOR CONCRETE |
| CSA-A23.3-04 | DESIGN OF CONCRETE STRUCTURES |
| G305-M983(R1991) | WELDED STEEL WIRE FABRIC FOR CONC. REINF. |
| G305-M983(R1991) | WELDED DEFD STEEL WIRE FABRIC FOR CONC. REINF. |
| CAN/CSA-G308.1-11 | BILLET-STEEL BARS FOR CONC. REINF. |
| ASTM A718 | EPOXY COATED REINFORCING BARS |
| ACI | MANUAL FOR STD PRACTICE FOR DETAILING |
| CSA S16.01-1978 | FALSBELONK FOR CONSTRUCTION PURPOSES |
| CAN/CSA S16.03-11 | CONCRETE FORMWORK |
| ACI 341 | RECOMMENDED PRACTICE FOR CONC. FORMWORK |
- ALL CONCRETE WORK AND TESTING SHALL CONFORM TO THE REQUIREMENTS OF APPROPRIATE STANDARDS. CONCRETE DENSITY SHALL BE 2350 KG/M³ (150 PCF). CEMENT SHALL BE PORTLAND CEMENT TYPE 10, UNLESS NOTED OTHERWISE. CONCRETE FOR VARIOUS PURPOSES SHALL BE AS FOLLOWS:
- | FOUNDATION AND INT. SLAB ON GRADE | 25 MPa | - | 30 mm | 80/10 |
|-----------------------------------|--------|----|-------|-----------|
| EXTERIOR SLAB ON GRADE | 32 MPa | C2 | 40 mm | 80/10 4-1 |
- REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF C.S.A. G30.8/1 AND SHALL BE NEW BILLET STOCK OF THE FOLLOWING STRENGTHS:
- | | |
|------------------|------------------------------|
| SMALLER THAN 10M | MINIMUM YIELD POINT: 300 MPa |
| 10M AND LARGER | MINIMUM YIELD POINT: 400 MPa |

- CONTRACTOR SHALL ARRANGE FOR THE TAKING AND THE TESTING OF 100 x 100 mm CONCRETE CYLINDERS BY AN INDEPENDENT TESTING LABORATORY APPOINTED BY THE OWNER. COPIES OF ALL CONCRETE TEST REPORTS TO BE SENT TO LONDON MAH AND ASSOCIATES LTD.
 - ALL REINFORCING BARS SHALL BE TIED SECURELY TO PREVENT DISPLACEMENT. WALL REINFORCING, INCLUDING DOUELS, TO LAP 40 BAR DIAMETERS WITH 50% HOOKS AT CORNERS OR BENT BARS OF SAME SIZE AND SPACING AS HORIZONTAL REINFORCING. ENDS OF WALLS TO HAVE TWO BY VERTICAL (MIN). UNLESS OTHERWISE NOTED, REINFORCEMENT TO BE:
- | | | |
|----------|-----------------|------------------|
| 6" WALLS | 10M @ 11" VERT. | 10M @ 10" HORIZ. |
| 8" WALLS | 10M @ 13" VERT. | 10M @ 8" HORIZ. |
- BAR DESIGNATION CODE
- | | |
|-----------------|---------------------------------------|
| 8-29M1 x 10'-6" | MEANS 8 - 29M1 x 10'-6" LONG TOP BARS |
|-----------------|---------------------------------------|
- | | |
|-----|------------------------------|
| HE | MEANS HOOKED ONE END |
| HE | MEANS HOOKED TWO ENDS |
| UNO | MEANS UNLESS NOTED OTHERWISE |
| EW | MEANS EACH WAY |
| IF | MEANS INSIDE FACE |
| OF | MEANS OUTSIDE FACE |
| EF | MEANS EACH FACE |
- ALL REINFORCING SHALL BE FREE AND CLEAN OF ALL SUBSTANCES THAT WILL PREVENT PROPER BOND. OIL FORMS PRIOR TO THE PLACEMENT OF ALL REINFORCEMENT.

- CONCRETE COVER TO REINFORCING AS FOLLOWS:
- | | |
|---|--------|
| SURFACES PLACED IN CONTACT WITH GROUND | 3" |
| FORMED SURFACES EXPOSED TO GND OR WEATHER | 2" |
| WALLS | 1-1/2" |

- EMBEDMENT OF DOUELS

BAR	COMPRESSION		TENSION	
	25	30A	25	30
	ME	ME	ME	ME

10M	9"	8"	13"	12"	12"
10M	12"	12"	19"	17"	16"
	15"	14"	23"	21"	19"
	19"	18"	36"	33"	32"
	23"	21"	43"	37"	36"
	27"	25"	51"	47"	43"

TENSION EMBEDMENT LENGTHS MAY INCLUDE 90° HOOKS IF FOUNDATION DEPTH INSUFFICIENT FOR STRAIGHT BARS.

WHERE EMBEDMENT DIMENSIONS ARE CALLED FOR, SUCH DIMENSIONS SHALL APPLY.

- SPICES FOR REINFORCEMENT
- WELDED OR MECHANICAL SPICES MAY BE USED FOR ALL BARS PROVIDED THAT:
- SPICE ALTERNATE BARS TO A MAXIMUM OF 1/3 THE TOTAL BAR GROUP AT ANY ONE POINT. THE MINIMUM DISTANCE BETWEEN SPICES ON ALTERNATE BARS TO BE 40 BAR DIAMETERS.
 - THE SPICE DEVELOPS 100% OF THE COMPRESSIVE STRENGTH OF THE BAR AND 80% OF THE TENSILE STRENGTH.
 - TEST RESULTS OF THE SPICE ARE TO BE PROVIDED FOR THE ENGINEER'S APPROVAL BY THE CONTRACTOR.
- ALL LAPPED SPICES TO BE AS PER THE FOLLOWING UNLESS OTHERWISE SHOWN ON THE DRAWINGS:

BAR	COMPRESSION	CLASS 10' TENSION SPICE	
		SIZE	SPICE
		25	30
		ME	ME
10M	--	11"	16"
10M	18"	22"	20"
10M	24"	30"	27"
10M	30"	46"	43"
10M	35"	56"	51"
10M	41"	65"	60"

- FOR TENSION SPICES IN MEMBERS OTHER THAN SHEAR WALLS, SPICE NO MORE THAN 50% OF THE BARS AT ANY ONE LOCATION.
- REINFORCING AT OPENINGS SHALL NOT BE CUT OR BENT, BUT SHALL BE FANED WHERE POSSIBLE OR CROUDED EITHER SIDE TO CLEAR OPENINGS.
- ALL EXPOSED CORNERS OF CAST-IN-PLACE CONCRETE TO HAVE 3/4 x 3/4 CHAMFER'S UNLESS OTHERWISE NOTED.
- WHERE CONCRETE SURFACES ARE TO BE EXPOSED, ONLY NON-CORROSIVE TYPE REINFORCING CHAIRS SHALL BE USED TO SUPPORT REINFORCING.
- ALL VERTICAL CONSTRUCTION JOINTS BELOW GRADE SHALL HAVE 6" PVC WATER STOPS.
- ALL Sumps, PITS, TRENCHES, ETC. TO HAVE 6" WALLS AND BOTTOM REINFORCE WITH 10M @ 16" EACH WAY UNLESS OTHERWISE NOTED. WHERE CONDUITS ARE EMBEDDED IN SLABS:
 - CONDUIT SHALL BE KEPT 12" AWAY FROM WALLS AND COLUMNS.
 - SLAB THICKNESS SHALL BE INCREASED 1" IN AREAS WHERE CLEAR DISTANCE BETWEEN CONDUITS IS LESS THAN 2 CONDUIT DIAMETERS.
 - IN NO CASE SHALL THE CLEAR DISTANCE BETWEEN THE CONDUITS BE LESS THAN 1" WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- NO CALCIUM CHLORIDE IS TO BE USED WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER.
- NOTIFY THE ENGINEER AT LEAST 48 HOURS IN ADVANCE OF PLACING CONCRETE TO INSPECT REINFORCING.
- GENERAL CONTRACTOR TO SUPPLY A CLOSED BOX WITH LID TO STORE CONCRETE TEST CYLINDERS FOR A MINIMUM OF 24 HOURS AFTER FILLING THE CYLINDERS WITH THE CONCRETE TO BE TESTED.

18. GOLD WEATHER REQUIREMENTS:

- FORECASTED AIR TEMPERATURE NOT BELOW 2° C:
 - IF CONCRETE TEMPERATURE DROPS BELOW 10° C AT POINT OF POURING, THE MIXING WATER SHALL BE HEATED TO MAINTAIN A MINIMUM CONCRETE TEMPERATURE OF 10° C.
 - CONCRETE SHALL NOT BE PLACED ON OR AGAINST ANY SURFACE WHICH IS AT A TEMPERATURE LESS THAN 4° C.
 - THE CONTRACTOR SHALL BE PREPARED TO COVER THE SLAB IF UNEXPECTED DROP IN AIR TEMPERATURE SHOULD OCCUR.
- FORECASTED AIR TEMPERATURE BELOW 2° C BUT NOT BELOW -4° C:
 - FORMS AND STEEL SHALL BE FREE FROM ICE AND SNOW.
 - MIXING WATER SHALL BE HEATED TO GIVE A MINIMUM CONCRETE TEMPERATURE OF 10° C AT POINT OF POUR.
 - CONCRETE SHALL BE HEATED TO GIVE A MINIMUM CONCRETE TEMPERATURE OF 10° C AT POINT OF POUR.
 - SLABS SHALL BE COVERED WITH CANVAS OR SIMILAR MATERIAL AND KEPT 4" MINIMUM CLEAR OF SURFACE FOR AIR CIRCULATION.
 - PROTECTION SHALL BE MAINTAINED FOR AT LEAST THREE DAYS.
- FORECASTED AIR TEMPERATURE BELOW -4° C:
 - A, B, C AND D AS UNDER POINT 2.
 - STOREY BELOW SHALL BE ENCLOSED AND ARTIFICIAL HEAT PROVIDED. HEATING TO BE STARTED AT LEAST ONE HOUR AHEAD OF POURING AND MAINTAINED FOR A MINIMUM OF THREE DAYS AFTER.
 - TEMPERATURE OF THE CONCRETE AT ALL SURFACES SHALL BE KEPT AT A MINIMUM OF 20° C FOR THREE DAYS OR 10° C FOR FIVE DAYS. CONCRETE SHALL BE KEPT ABOVE FREEZING TEMPERATURE FOR AT LEAST SEVEN DAYS.
 - ENCLOSURE MUST BE CONSTRUCTED SO THAT AIR CAN CIRCULATE OUTSIDE THE OUTER EDGES AND MEMBERS.

SAIN LUMBER

- ALL SAIN LUMBER HAS BEEN DESIGNED TO CSA-O86-01 AND THE CONTRACTOR MUST ENSURE THAT ALL MATERIALS COMPLY WITH THE MATERIAL STANDARDS REFERENCED IN THIS STANDARD.
- FRAMING LUMBER SHALL BE WELL SEASONED AND TO BE OF THE FOLLOWING GRADES UNLESS NOTED OTHERWISE:
 - STUDS: 8FF STUD GRADE OR BETTER (KILNDRIED)
 - BUILT-UP BEAMS: SEE BEAM SCHEDULE
 - LINTELS & HEADERS: SEE BEAM SCHEDULE
 - TOP & BOT. PLATES: DFR1 N03 OR BETTER (KILNDRIED)
 - FREE STANDING COLS: DFR1 N03 OR BETTER (KILNDRIED)
- FLAT ROOF SHEATHING: 3/4" SELECT T & G FIR PLYWOOD
 - EXTERIOR WALLS: 1/2" FIR WALL PLY.

ALL PANELS TO BE LAID STAGGERED. FLOOR AND ROOF PANELS TO BE FASTENED TO SUPPORTS WITH 2 1/2" COMMON NAILS AT 4' O.C. ALONG PANEL EDGES AND AT 12" O.C. ALONG INTERMEDIATE SUPPORTS FOR WALL SHEATHING EDGE NAILING. SEE PLANS FOR NAILS AND NAILING PATTERNS (PROVIDE NAILS AT 12" O.C. ALONG INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE). PROVIDE SOLID BLOCKING ALONG SIDES OF EACH SHEET.

STRUCTURAL STEEL AND MISCELLANEOUS METALS

- REFERENCE STANDARDS
- | | |
|-------------------|---|
| CAN/CSA-S16-01 | LIMIT STATES DESIGN OF STEEL STRUCTURES |
| S16.01-05 | |
| CSA UBS-03 | WELDED STEEL CONSTRUCTION |
| CSA W471-03 | CERTIFICATION OF WELDERS |
| CAN/CSA G40.21-04 | STRUCTURAL QUALITY STEELS |
| ASTM A36 | SPECIFICATION FOR STRUCTURAL STEEL |
| ASTM A307-00 | BOLTS AND NUTS |
| ASTM A325M-02 | HIGH STRENGTH BOLTS |
| CSA S306-01 | COLD FORMED STEEL STRUCTURAL MEMBERS. |
- NO FIELD WELDING IS PERMITTED EXCEPT AS SPECIFICALLY DETAILED OR OTHERWISE APPROVED BY THE ENGINEER. FABRICATION WILL BE RESTRICTED TO CERTIFIED WELDING FABRICATORS AND CONTRACTORS HAVING CERTIFICATION FROM THE CANADIAN WELDING BUREAU TO THE REQUIREMENTS OF C.S.A. W471-02. THE CONTRACTOR MUST ENSURE THAT HIS FABRICATORS HAVE THIS CERTIFICATION.
 - MISCELLANEOUS METALS TO BE PROVIDED BY STRUCTURAL STEEL SUPPLIER.
 - ALL STRUCTURAL STEEL IS TO CONFORM TO CSA G40.20-04/G40.21-04. IN SECTIONS TO BE 350W ALL OTHER ROLLED SECTIONS TO BE 300W. RECTANGULAR TUBE COLUMNS TO BE CLASS C AND SHALL BE 350W MATERIAL. WELDING IS TO BE IN ACCORDANCE WITH C.S.A. UBS USING E-10 ELECTRODES.
 - ALL STRUCTURAL STEEL, EXCEPT GALVANIZED SURFACES, IS TO BE PAINTED WITH ONE SHOP COAT OF PRIMER CONFORMING TO CIBC/CIPMA STANDARD I-13a.
 - ALL BOLTS EXCEPT ANCHOR BOLTS ARE TO CONFORM TO ASTM A325 TYPE I, AND HAVE BEEN DESIGNED FOR BEARING-TYPE CONNECTIONS WITH THREADS EXCLUDED FROM THE SHEAR PLANE. ALL ANCHOR BOLTS TO CONFORM TO ASTM A36 EXCEPT WHERE OTHER NOTED. ALL FILLET WELDS TO HAVE A 3/16" THROAT SIZE UNLESS OTHERWISE NOTED.
 - BOLTED CONNECTIONS SHALL BE TORQUE-TESTED IN ACCORDANCE WITH CAN/CSA-S16-01.
 - REINFORCING FOR OPENINGS IN STEEL DECK LARGER THAN 18 INCH DIAMETER OR 18 INCH ON A SIDE IS TO BE DESIGNED, DETAILED, SUPPLIED AND INSTALLED BY THE STRUCTURAL STEEL SUPPLIER UNLESS OTHERWISE SHOWN.
 - ALL STEEL WORK SHALL BE ERECTED TRUE AND PLUMB AND TEMPORARY BRACING SHALL BE INTRODUCED WHEN EVER NECESSARY TO TAKE CARE OF ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED, INCLUDING ERECTION EQUIPMENT AND THE OPERATING OF SAME. SUCH BRACING SHALL BE LEFT IN PLACE FOR AS LONG AS MAY BE REQUIRED FOR SAFETY.
 - ALL STEEL MEMBERS, ELEMENTS, BOLTS, AND WASHERS EXPOSED PERMANENTLY TO THE ELEMENTS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH CSA-G16.4. ALL FIELD DAMAGE OR FIELD WELDING IS TO BE TOUCHED UP WITH TWO LIBERAL COATS OF 'GALVALUM'.

COLD-FORMED WIND BEARING STEEL STUDS (1/8" MIN. FLANGE)

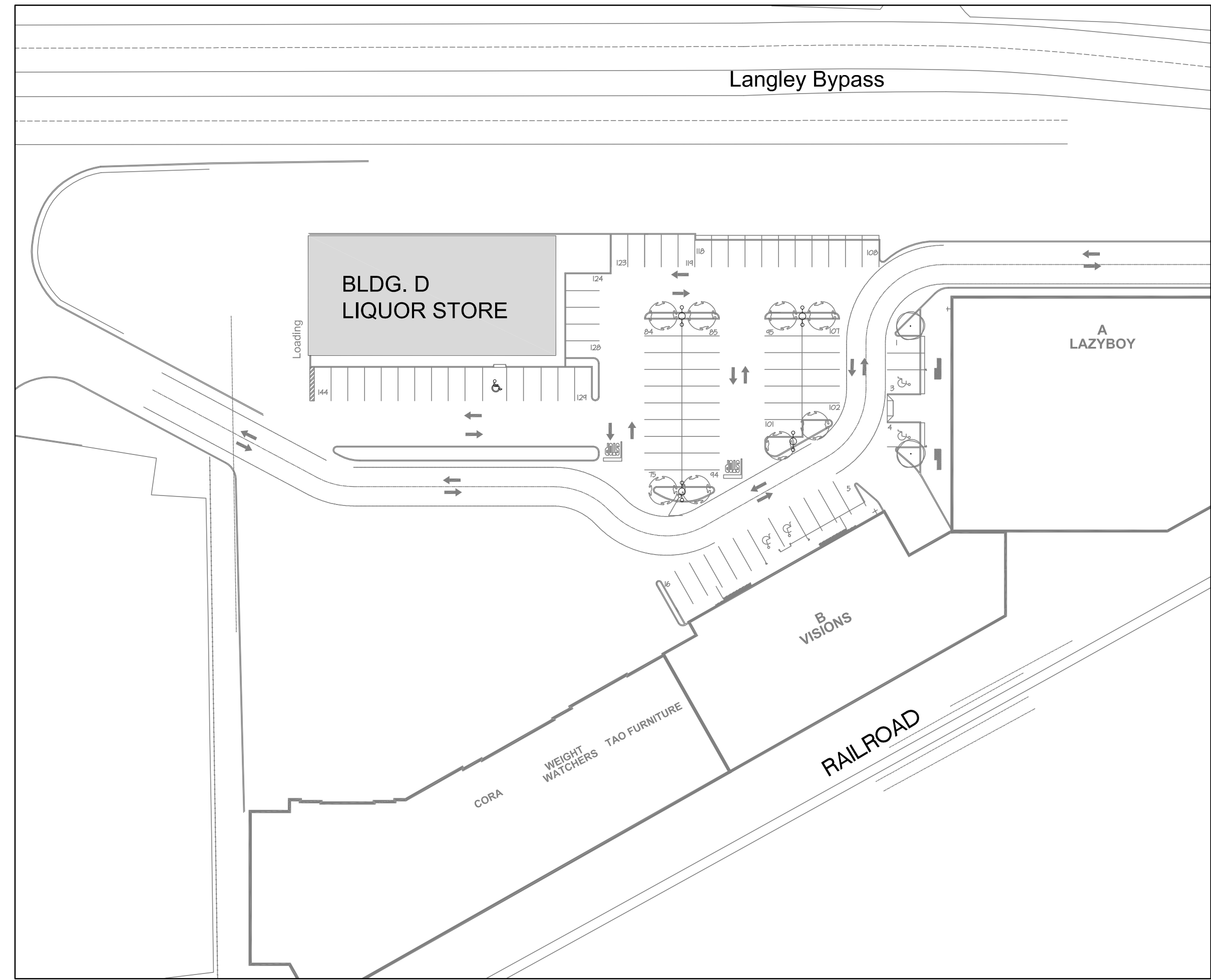
- ALL STUDS SHALL BE OF TYPE SIZE AND GAUGE SHOWN ON DRAWINGS. ALL 18 GAUGE OR LIGHTER STUDS SHALL BE FORMED FROM STEEL WITH MINIMUM YIELD OF 33,000 PSI. FOR 1/8 GAUGE OR THICKER STUDS SHALL BE FORMED FROM STEEL WITH YIELD STRENGTH OF 50,000 PSI MIN.
- THE THICKNESS RELATIONSHIP BETWEEN GAUGE AND INCHES PER BELOW (UNO):
22 GA + 0.30" 20GA+0.33-0.36 18GA +0.43-0.48" 16GA+0.54-0.60"
14GA+0.68- 0.75" 12GA+0.90-0.91"
- ALL SCREWS SHOWN ON DRAWINGS ARE HILTI Kwik-PRO SELF-DRILLING SCREWS OR EQUIVALENT UNO
18 16 YEARS 9-18 ,
40 YEARS 16-16 ,
90 YEARS 12-14 FOR STUDS CONN. OR
92-14 FOR STUD/TRACK TO CONC.STRUC STEEL CONN.
- S/P MEANS HILTI X-DU/ X-EDM FASTENER
SEE DRAWING FOR NUMBER REQUIRE UNO
- ALL STUD COMPONENTS SHALL BE L.Z.C. GALVANIZED.
- STEEL FRAMING COMPONENTS SHALL BE CUT SQUARELY OR AS REQUIRED TO FIT NEATLY AGAINST ABUTTING MEMBER. JOINING OF MEMBERS SHALL BE DONE BY FILLET PLUG, BUTT OR BEAM WELDING OR BY SELF-DRILLING SELF-TAPPING METAL SCREWS. CUTTING OF MEMBERS MAY BE SAW OR SHEAR. TORCH CUTTING IS NOT PERMITTED.
- ALL STUDS SHALL BE REINFORCED AS SHOWN AND ERECTED TRUE AND PLUMB AND TEMPORARY BRACING SHALL BE INTRODUCED WHEREVER NECESSARY.
- TRACKS SHALL BE OF SAME GAUGE AND SHALL BE SECURELY ANCHORED TO THE FLOOR AND OVERHEAD STRUCTURE TO PROPERLY TRANSFER ALL IMPOSED LOADS. TRACKS ABOVE STORE-FRONT SHALL BE 16GA IN COMBINATION W/ STD JOISTS TO FORM LINTELS.
- WHEN REQUIRED, INSTALLED FULL SIZE 5/16" BELOW BOTTOM TRACK AT GRID LOCATIONS AND/OR SET TRACK ON HIGH STRENGTH GROUT.
- ERECT STUDS ONE PIECE FULL LENGTH. SP LICING IS NOT PERMITTED.
- BRIDGING FOR WALL SHALL BE INSTALLED IN ACCORDANCE TO SCHEDULE SET FORTH IN DRAWINGS AND/OR TO MANUFACTURERS RECOMMENDATIONS.

REV	DATE	DESCRIPTION
01	30/03/11	ISSUED FOR BP

CONSULTANT

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CONSULTANT SEAL



- DRAWING LIST:
- 5-10 GENERAL NOTES & KEY PLAN
 - 5-20 FOUNDATION PLAN
 - 5-20a LOWER CANOPY PLAN & DETAILS
 - 5-30 ROOF FRAMING PLAN
 - 5-40 SECTIONS
 - 5-50 SECTIONS

KEY PLAN
SCALE: N.T.S.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON SITE. DRAWINGS SHALL NOT BE SCALED.

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PROJECT
Langley Bypass Commercial
20670 LANGLEY BYPASS
LANGLEY, BC

DRAWING

PROJECT NUMBER (13-94)	DRAWING NUMBER
PJL-263	5-10

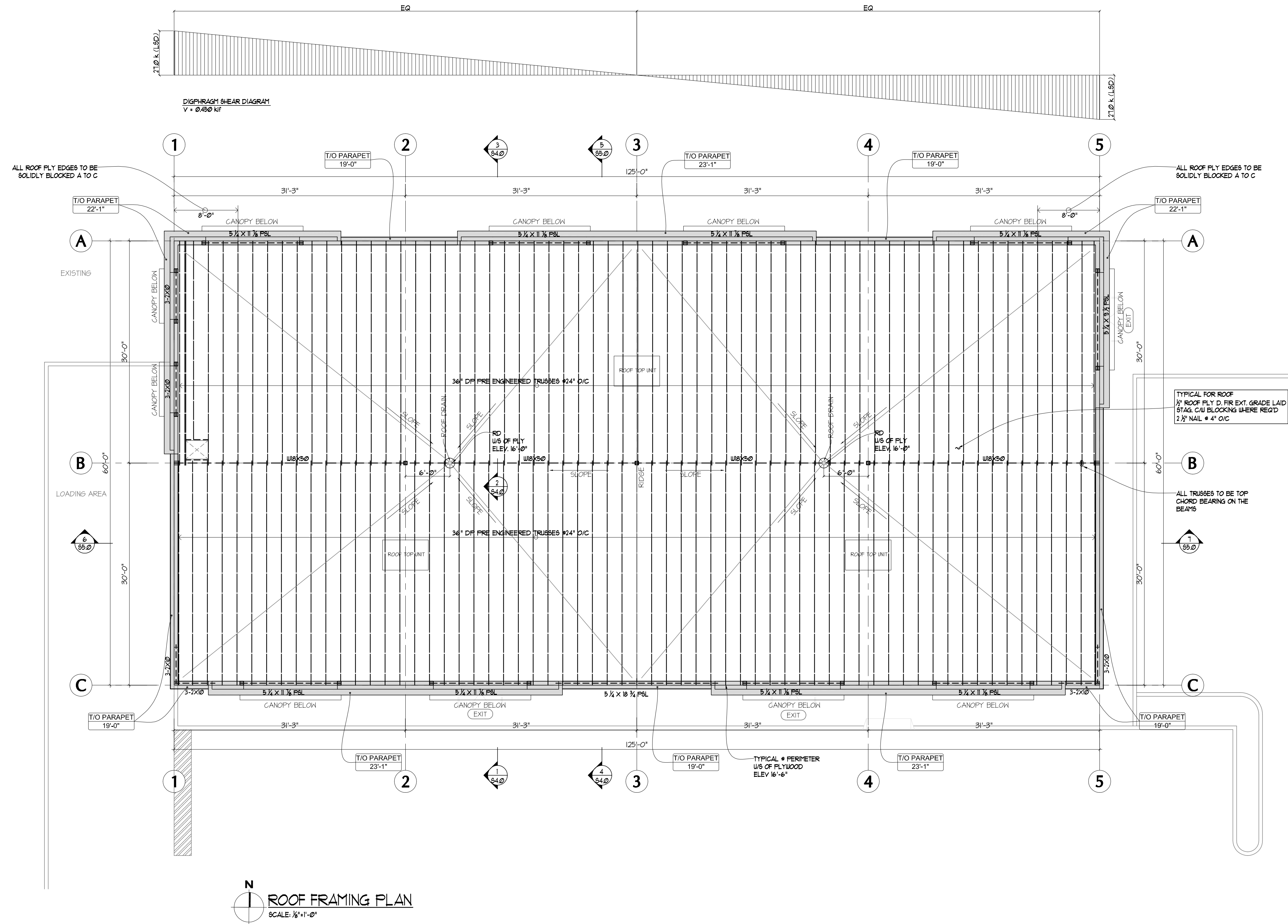
SCALE

DATE

REVISION

GENERAL NOTES & KEY PLAN

Langley Bypass 13-94



DIAPHRAGM SHEAR DIAGRAM
V = 0.450 KIP

ALL ROOF FLY EDGES TO BE SOLIDLY BLOCKED A TO C

ALL ROOF FLY EDGES TO BE SOLIDLY BLOCKED A TO C

TYPICAL FOR ROOF
1/2" ROOF FLY D. FRM EXT. GRADE LAID
STAG. C/W BLOCKING WHERE REQ'D
2 1/2" NAIL @ 4" O/C

ALL TRUSSES TO BE TOP CHORD BEARING ON THE BEAMS

ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

ALL AINING SHOP DRAWINGS TO BE SUBMITTED SIGNED AND SEALED BY B.C. P. ENG. PRIOR TO FABRICATION

NOTE: FOR RTU EXACT LOCATION SIZE & WEIGHT SEE MECHANICAL DRAWINGS

NOTES:
ALL DESIGN LOADINGS FOR TRUSSES SHOWN. DO NOT INCLUDE ANY OF THE MECHANICAL UNITS STATIC AND DYNAMIC LOADS. SEE MECHANICAL DRAWINGS FOR EXACT UNIT LOADING AND LOCATIONS FRAME ALL OPENINGS WITH 2-38x89.

MINIMUM DESIGN LOADS FOR TRUSSES (UNFACTORED)
D.L. = 20 PSF
L.L. = 40 PSF
TOTAL = 60 PSF

ALL TRUSS SHOP DRAWING TO BE SUBMITTED TO LMA FOR APPROVAL

REV	DATE	DESCRIPTION
01	30/03/17	ISSUED FOR BP

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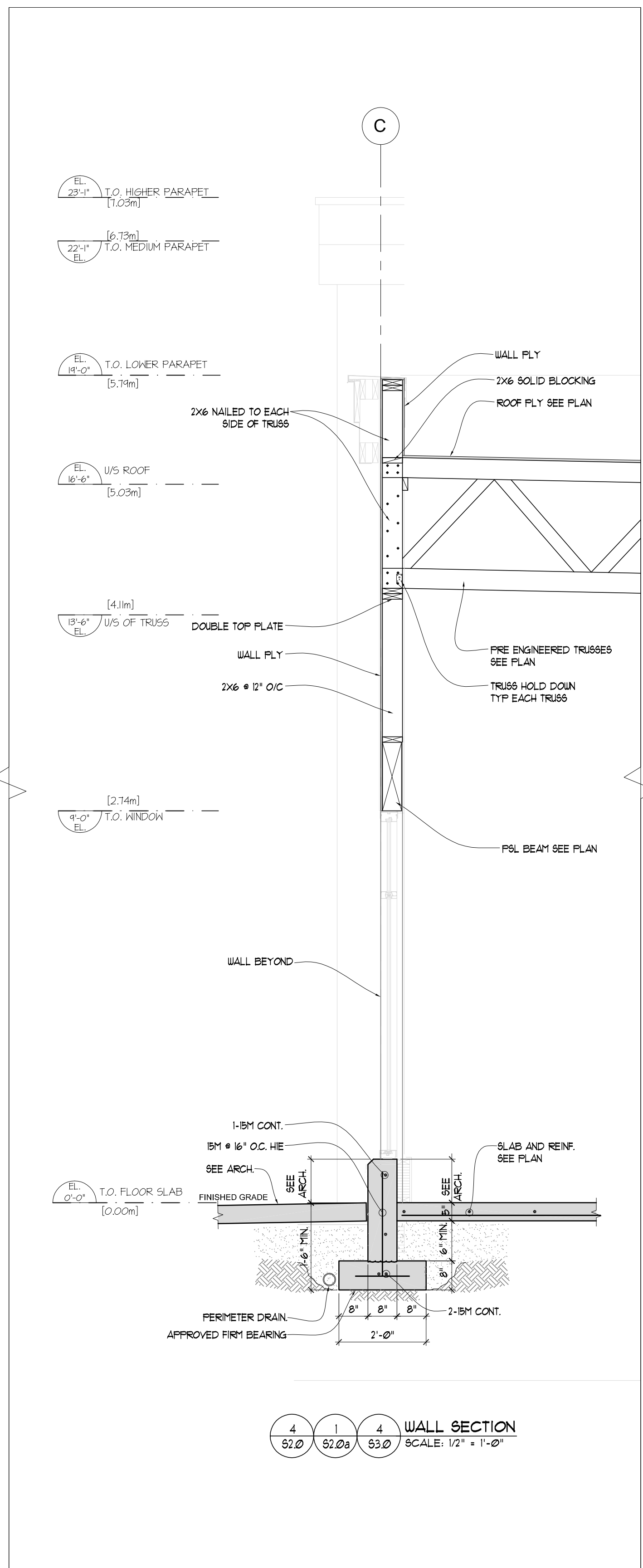
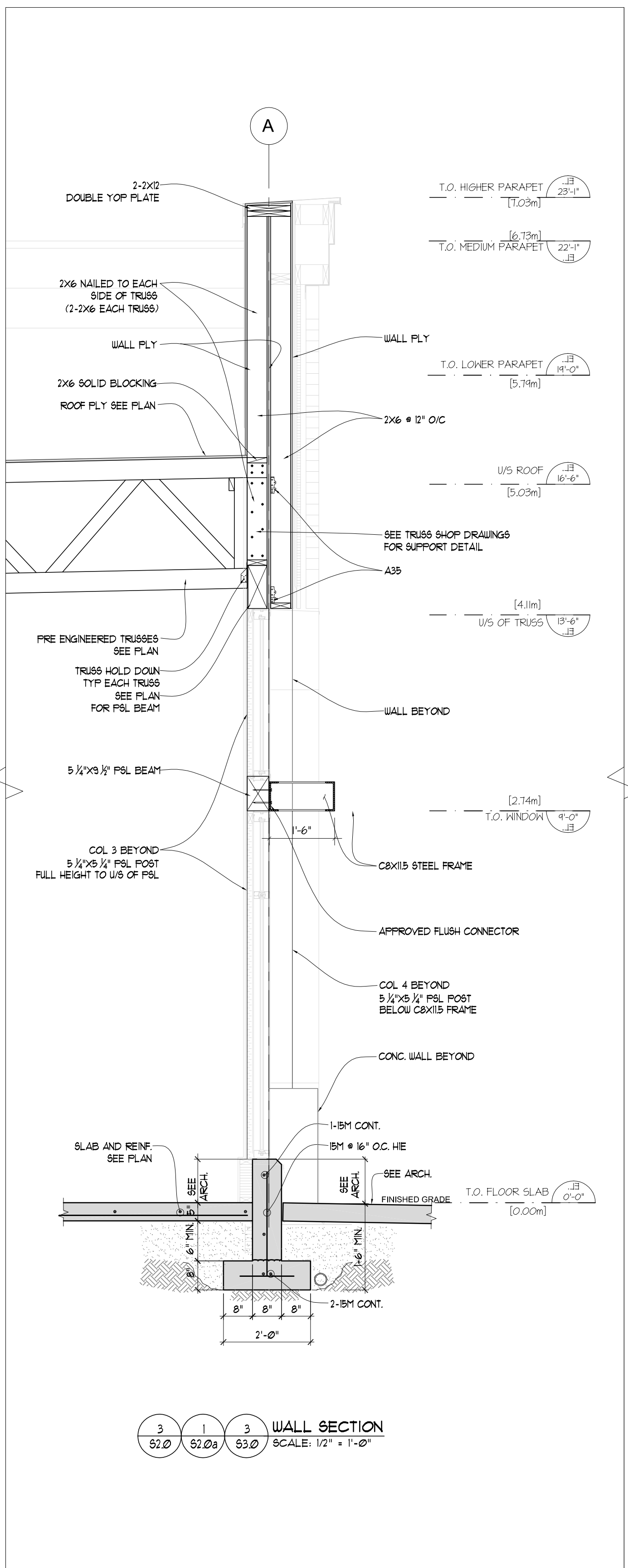
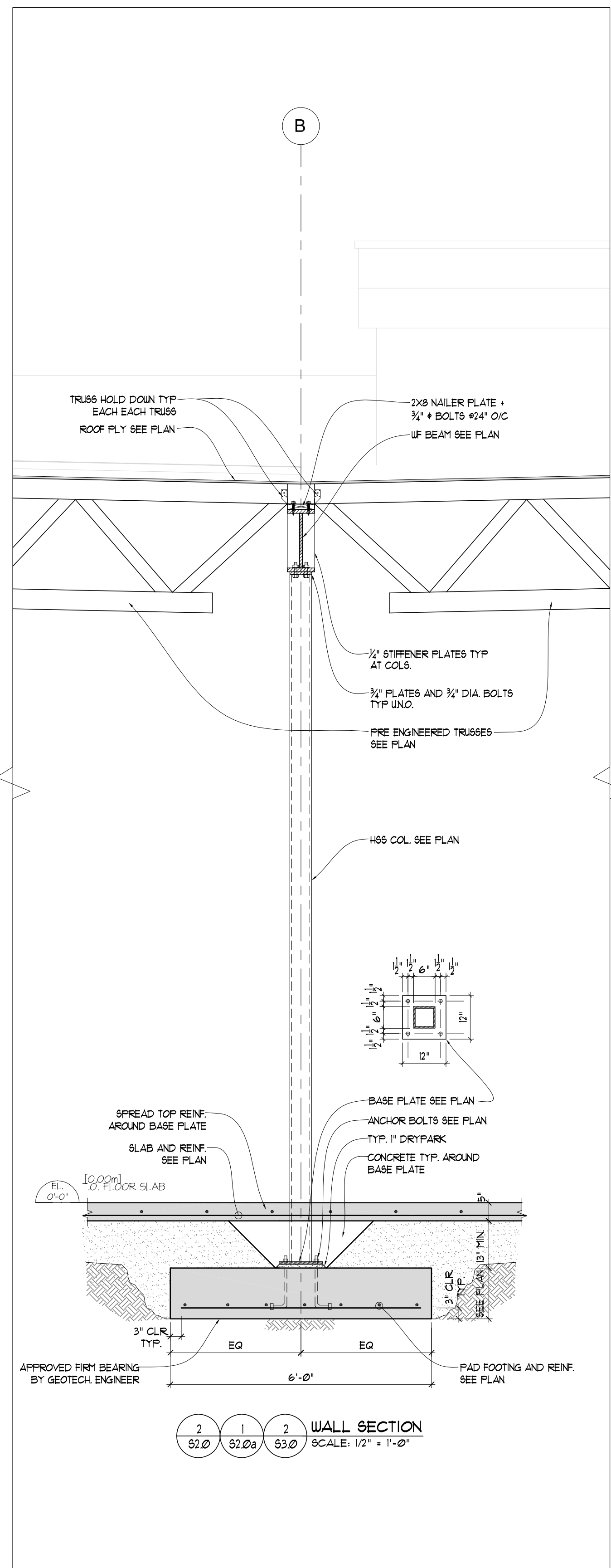
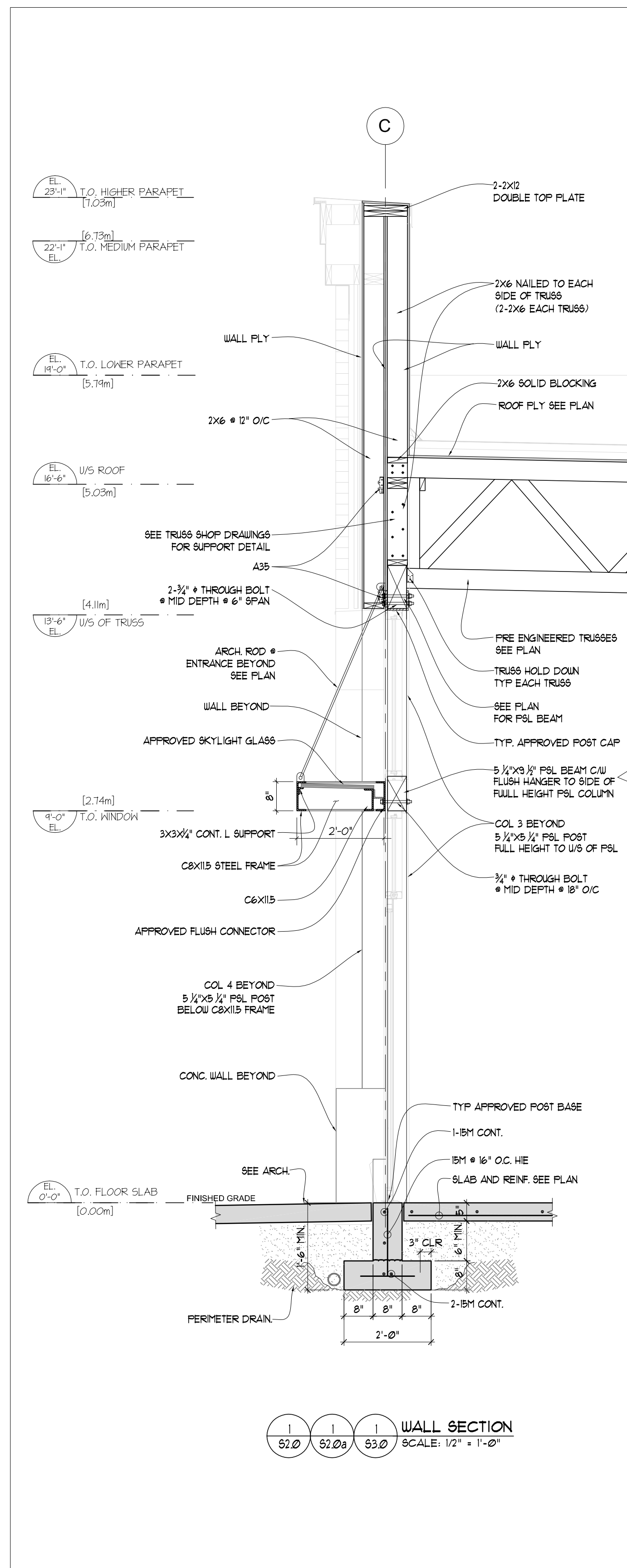
DRAWN BY: APPROVED:

PROJECT
Langley Bypass Commercial
20670 LANGLEY BYPASS
LANGLEY, BC

DRAWING
ROOF FRAMING PLAN

PROJECT NUMBER (13-94)	DRAWING NUMBER
FJL-263	S-30
SCALE	
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Langley Bypass 13-94



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PROJECT
Langley Bypass Commercial
 20670 LANGLEY BYPASS
 LANGLEY, BC

SECTION
 PROJECT NUMBER (13-94) DRAWING NUMBER
 P.J.L.-263 5-40
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