

**document status:**

**abbreviations:**

**symbols legend:**

**mat'l legend:**

## general notes:

General provisions and specifications apply to these drawings

- [illegible]

Project: **SCRIM & SKYLIGHT REPLACEMENT  
BILLINGS PARMLY LIBRARY  
510 NORTH BROADWAY  
BILLINGS, MONTANA**

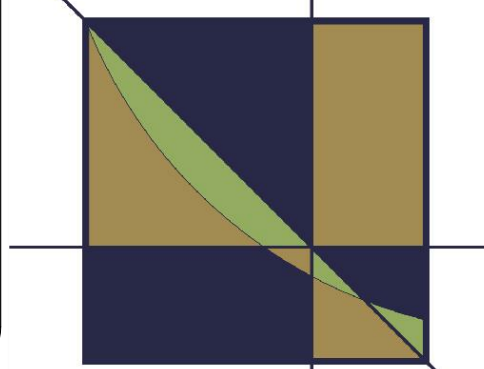
Sheet title: **TITLE SHEET  
GENERAL NOTES, DATA,  
LEGENDS AND STATUS**



## special note:

The final building configuration may differ from these design documents due to the implications of code requirements, coordination of mechanical, electrical, structural systems, modifications by the occupants of the building and the need for on-site adjustments during the course of construction.

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general notes:- roof

1. DEMOLITION INCLUDES THE REMOVAL AND DISPOSAL OF ROOF CONDITIONS AS INDICATED ON DRAWINGS AND SPECIFICATIONS.
2. VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING DEMOLITION WORK.
3. CONTRACTOR SHALL CAREFULLY REMOVE ALL ITEMS AS INDICATED. MATERIALS SCHEDULED FOR RE-USE ARE TO BE REMOVED FULLY CLEANED AND STORED READY FOR REINSTALLATION.
4. REMOVE AND DISPOSE OF ALL REMAINING DEMOLISHED MATERIALS LEGALLY OFF SITE.
5. REMOVE EXISTING ROOF IN DESIGNATED RE-ROOF AREA ONLY. ONLY THAT PORTION OF THE EXISTING ROOF SHOULD BE REMOVED THAT CAN ADEQUATELY BE RECONSTRUCTED AND KEPT DRY DURING CONSTRUCTION. TEMPORARY FLASHING AND COVER MUST BE MAINTAINED AT THOSE AREA BREAKS (EXISTING TO NEW) DURING CONSTRUCTION TO ENSURE AN INTEGRAL ROOF CLOSURE.
6. REMOVE REGLET, FLASHING AND COUNTER FLASHING ON VERTICAL SURFACES WITHIN THE RE-ROOF AREA TO FACILITATE RE-ROOF WORK.
7. PROTECT CURBS AT UNITS AND RECONSTRUCT THOSE TO PROVIDE ADEQUATE ELEVATION OF UNITS FROM THE NEW ROOF SURFACE FOR FLASHING.
8. VERIFY VENT PIPES ARE ACTIVE.
9. THE LOCATIONS ARE APPROXIMATE - VERIFY ON SITE PRIOR TO BEGINNING PROJECT.
10. CONTRACTOR TO PROVIDE THE NECESSARY TEMPORARY SUPPORT/BRACING TO EXECUTE THE WORK.
11. THE CONTRACTOR IS TO ADHERE TO APPLICABLE CRITERIA REGARDING THE SAFE & EFFECTIVE IMPLEMENTATION OF THE WORK.
12. THE CONTRACTOR IS TO MAINTAIN A CLEAN SITE / ROOF AREA DURING THE DEMOLITION WORK & SURROUNDING AREA.
13. THE CONTRACTOR IS TO KEEP ADJACENT STREETS, ENTRIES, SIDEWALKS, ALLEY, AND YARD AREAS FREE OF DELETERIOUS MATERIALS AND SAFE DURING THE WORK.
14. CONTRACTOR TO NOTIFY ARCHITECT CONCERNING ANY IRREGULARITIES FOUND DURING DEMOLITION.

general notes:- roof plan

1. NATIONAL ROOFING CONTRACTORS ASSOCIATION (NRCA) - "ROOFING AND WATER PROOFING MANUAL, CURRENT EDITION".
2. SHEET METAL AND AIR CONDITIONING NATIONAL CONTRACTORS ASSOC. (SMACNA) - "ARCHITECTURAL SHEET METAL MANUAL, CURRENT EDITION".
3. RAISE/ EXTEND/ RELOCATE CURBS, PENETRATIONS AND SERVICE LINES AS REQUIRED TO INSTALL ROOF SYSTEM.
4. MECHANICAL, ELECTRICAL AND PLUMBING WORK TO BE DONE BY LICENSED MECHANICAL/ ELECTRICAL/ PLUMBING CONTRACTORS.
4. PRIOR TO LEAVING THE PROJECT SITE EACH DAY, THE CONTRACTOR SHALL REMOVE ALL SOLVENTS, PRIMER, GLUES AND SEALANTS FROM THE SITE OR STORE THEM ON SITE IN A LOCKED VANDAL PROOF BOX.
5. PROVIDE AND INSTALL CROCKETS ON THE "UP SLOPE" SIDE OF THE ROOF (DOWN SLOPE) FINISHED SLOPE OF CROCKETS TO BE 1/2"-1" (OR AS SHOWN).
6. PROVIDE NEW PVC CONDUIT AND PIPE SUPPORTS FOR COMMUNICATION CABLES ROUTED ACROSS ROOF AREA.
7. CORRECT NON-COMPLIANT CONDITIONS PRIOR TO BEGINNING ROOF WORK.
8. MAINTAIN TEMPORARY FACILITIES APPROPRIATE FOR ACTIVITIES IN PROGRESS.
9. PREVENT MOISTURE ACCUMULATION DURING ROOFING PROCESS.
10. PREVENT MOISTURE/WEATHER DAMAGE OCCURRING DURING CONSTRUCTION.
11. MAINTAIN WEATHER RESISTANT PROVISIONS
12. THE END OF EACH DAYS WORK.

notes:

1. PRIOR TO HOT-AIR WELDING, CLEAN AND PREPARE THE WELD AREA OF THE BOOT AND ROOFING MEMBRANE PER MANUFACTURER'S RECOMMENDATION.
2. INSULATION AND FIELD MEMBRANE MUST BE CUT TIGHTLY AROUND PENETRATION BASE.
3. EXTEND PIPE/VENT AS REQUIRED TO PROVIDE 18" MIN. HEIGHT ABOVE FINISHED ROOF.
4. PRE-MOLDED PIPE SEAL MUST HAVE INTACT RIB AT TOP EDGE REGARDLESS OF PIPE DIAMETER.
5. FOLLOW SPECIFIC MEMBRANE MANUFACTURER'S REQUIREMENTS FOR SEAM FASTENERS AROUND PENETRATIONS.

notes:

1. REQUIREMENTS FOR SPECIFIC WALK-PAD INSTALLATION SUPERSEDE DETAIL.
2. REFER TO MANUFACTURER'S SPECIFIC REQUIREMENTS FOR SEALANT ON CUT OR NON-ENCAPSULATED EDGES OF WALK-PAD.
3. AVOID INSTALLING WALK-PAD OVER FIELD SEAMS AND FASTENER ROWS AND MUST BE GAFFED FROM THESE AREAS MIN. 6" IN.

note:- roof expansion joints

- CONTINUOUS EXPANSION JOINTS SHALL BE INSTALLED AT THE FOLLOWING LOCATIONS:
1. BUILDING EXPANSION JOINTS.
  2. SUBSTRATE EXPANSION JOINTS.
  3. WHERE SIGNIFICANT STRUCTURAL MOVEMENT OCCURS, SUCH AS:
    - a. CHANGES IN ROOF LINE.
    - b. CHANGES IN BUILDING SHAPE &/OR STRUCTURAL SYSTEM.
    - c. SUBSTRATE CHANGES.
  4. SUBSTRATE MOVEMENT, EXPANSION & CONTRACTION OF THE SYSTEMS AND ADJACENT MATERIALS SHALL BE TAKEN INTO ACCOUNT IN THE DESIGN OF THE EXPANSION JOINTS, WITH CONSIDERATION OF SEALANT PROPERTIES, INSTALLATION CONDITIONS, TEMPERATURE RANGES, THERMAL COEFFICIENT OF EXPANSION OF MATERIALS, JOINT WIDTH TO DEPTH RATIOS & OTHER MATERIAL FACTORS.

GENERAL PROVISIONS AND SPECIFICATIONS OF THE CONTRACT DOCUMENTS APPLY TO THESE DRAWINGS.

material note legend:

DIV.-5; METALS:

DIV.-7; THERMAL & MOISTURE:

CONTRACTOR'S REVIEWED AND ACCEPTED FOR CONSTRUCTION - SIGN AND DATE ALL SHEETS BELOW

contractor's signature      date

no.      revision      by      date

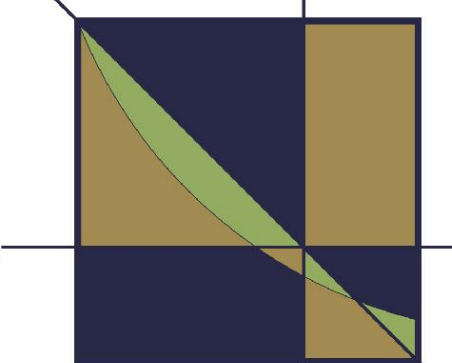
PROJECT: SCRM & SKYLIGHT REPLACEMENT  
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SHEET TITLE: PARTIAL ROOF PLAN  
SKY LIGHT DETAIL  
ALTERNATE - CLEARSTORY

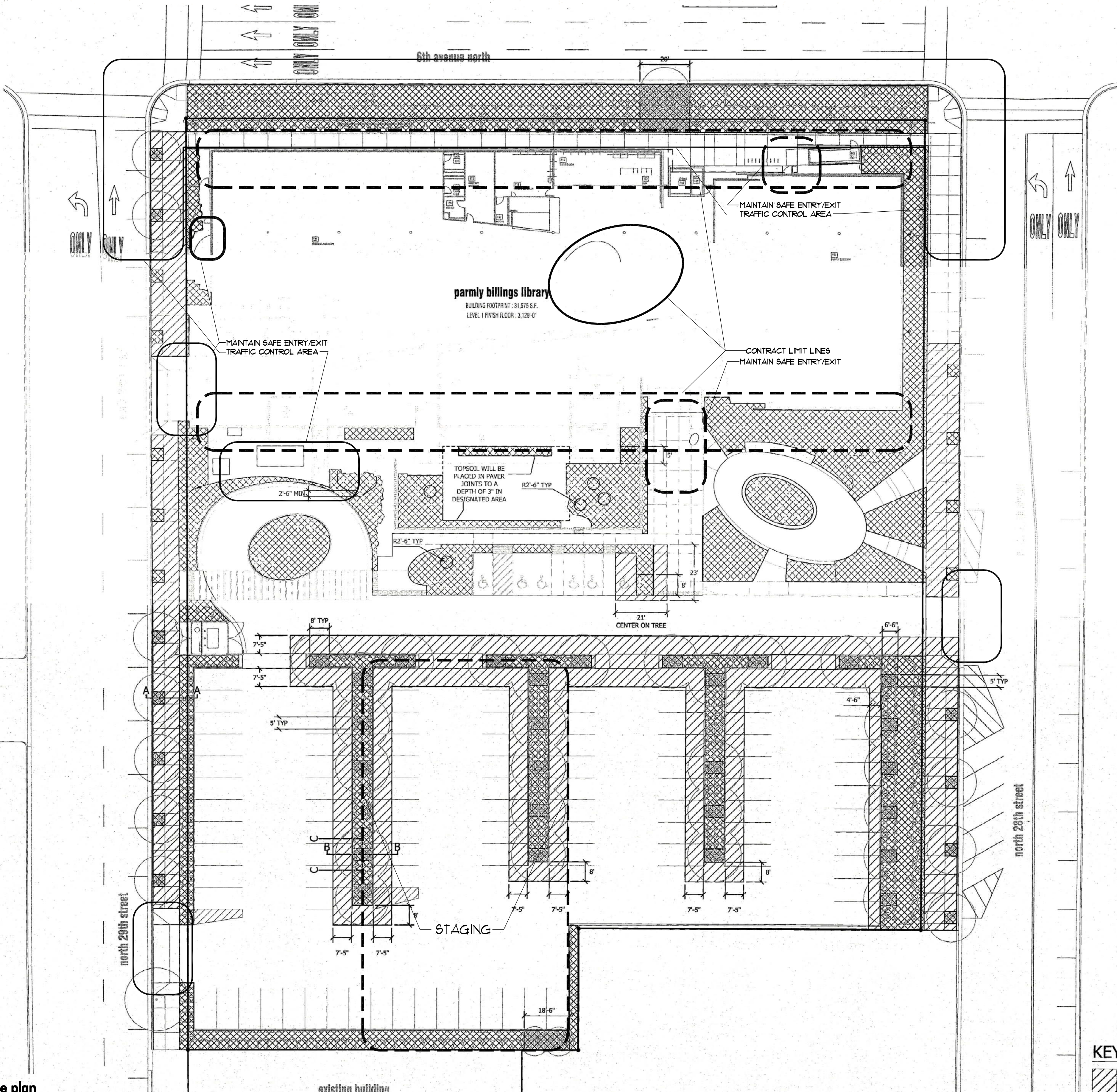


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project no.: p36107  
sheet no.:  
date: 6/9/21  
designed: jlb  
drawn: jlb  
reviewed: jlb

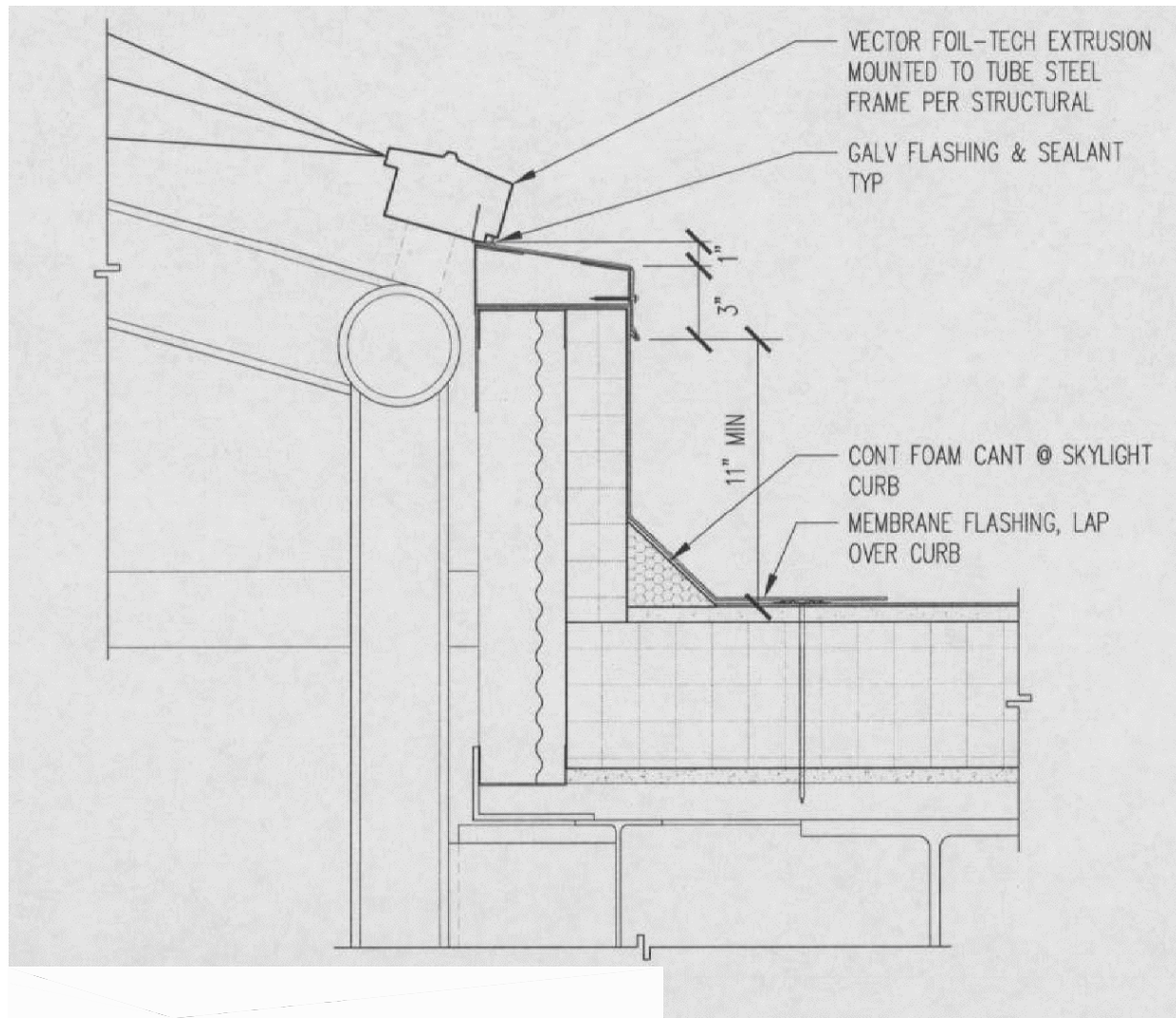
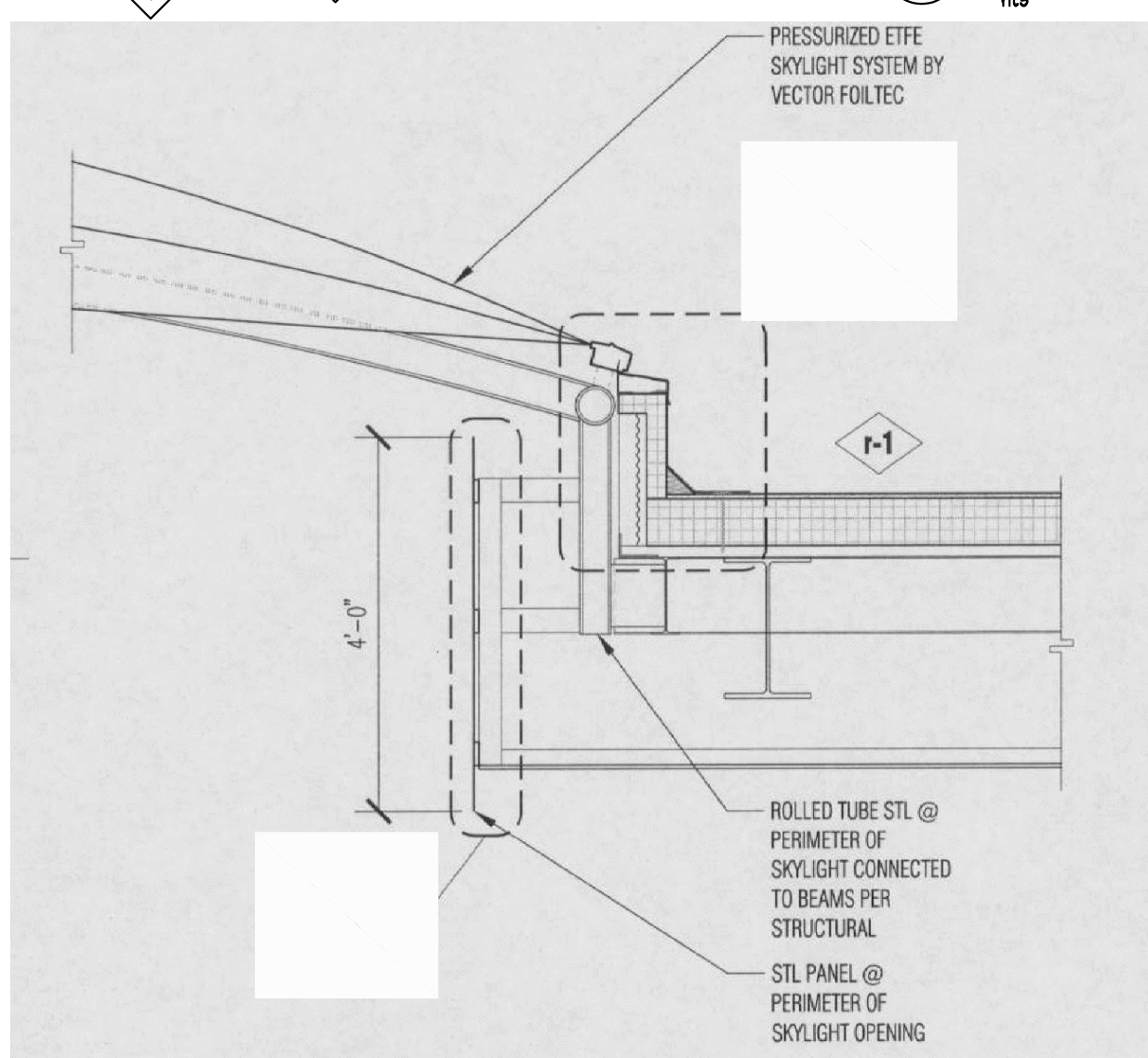
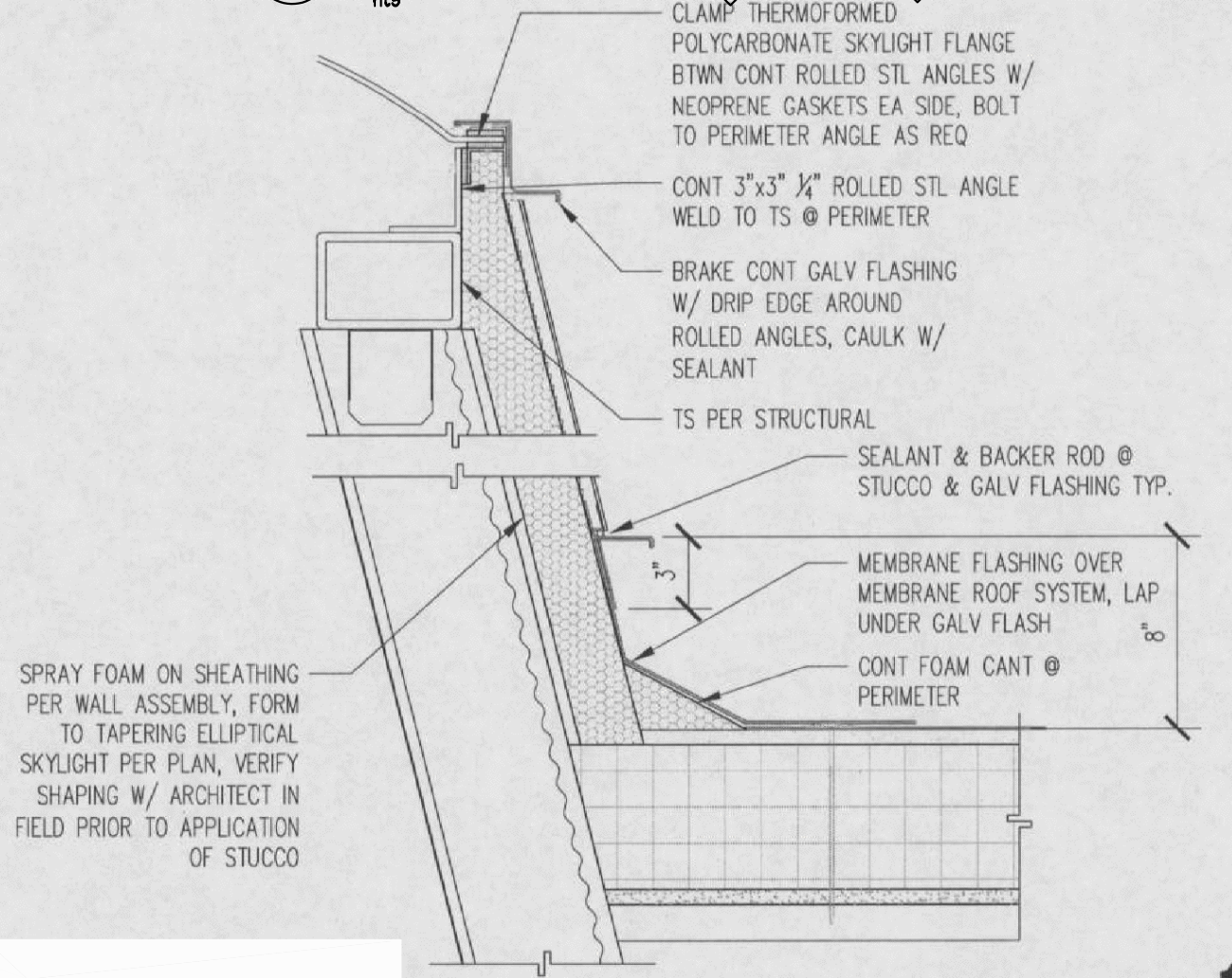


**site plan**  
1/8"=1'-0"



**KEY**  
STRUCT





### EXISTING TO REMAIN NOTES-EXTERIOR

- EXISTING flashing TO REMAIN
- EXISTING piping TO REMAIN
- EXISTING sky light heater TO REMAIN
- PROTECT EXISTING roof FROM DAMAGE

### DEMOLITION NOTES - ROOF

- REMOVE EXISTING sky light
- REMOVE EXISTING accessories
- DEACTIVATE existing equipment prior to removal

### INSTALLATION NOTES - ROOF

- INSTALL NEW SKY LIGHT SYSTEM-SEE 1/A??
- INSTALL NEW SKY LIGHT ACCESSORIES-SEE 1/A??
- REACTIVATE EXISTING EQUIPMENT FOR PROPER OPERATION

SEE SHEET A2.0 FOR: GENERAL, DEMO, & REPAIR NOTES  
SEE SHEET A3.0 FOR VIEW POINT LOCATIONS

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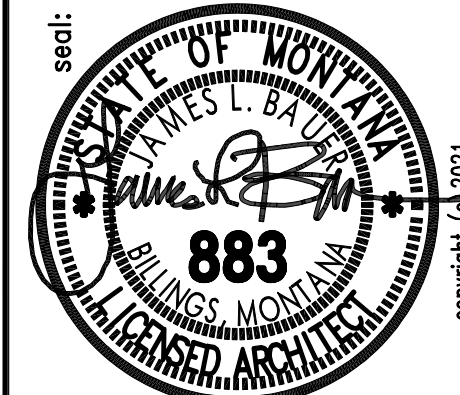
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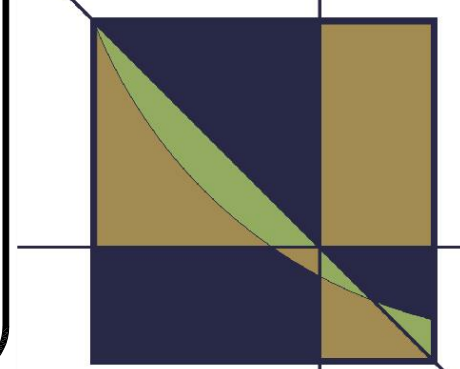
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SHEET TITLE: PARTIAL ROOF PLAN  
SKY LIGHT PHOTOS

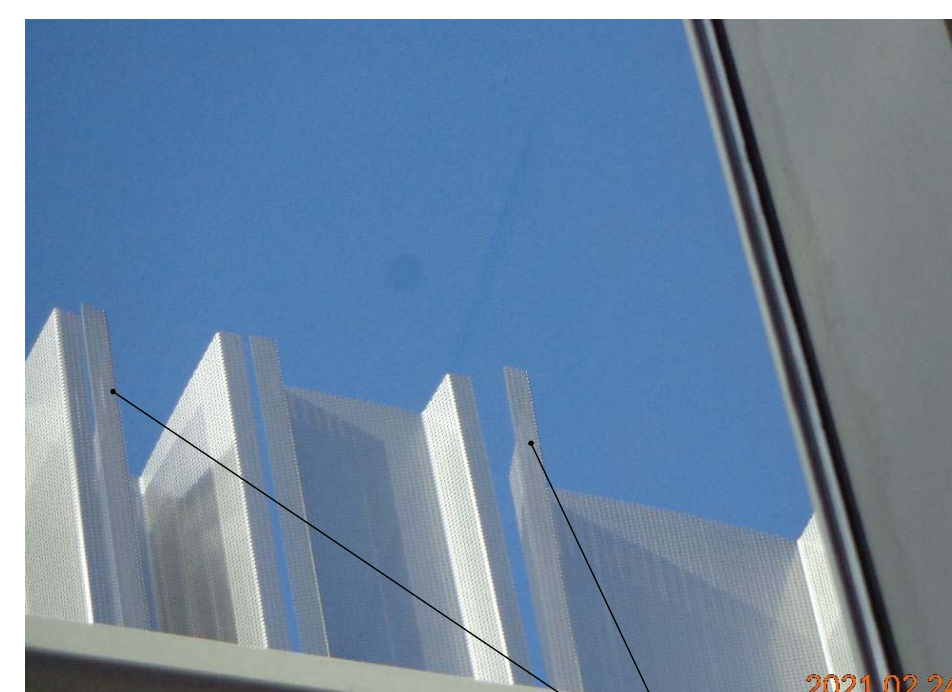
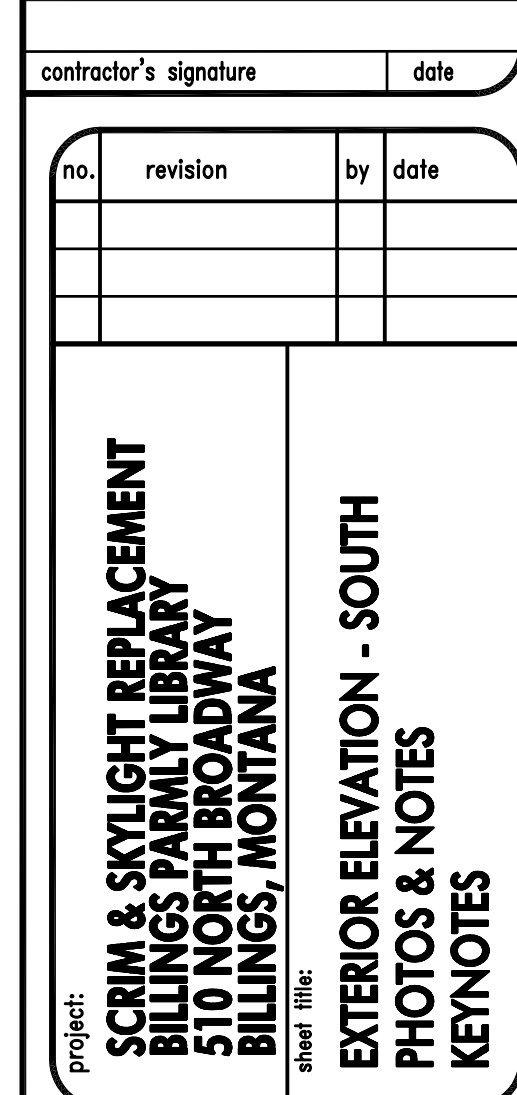
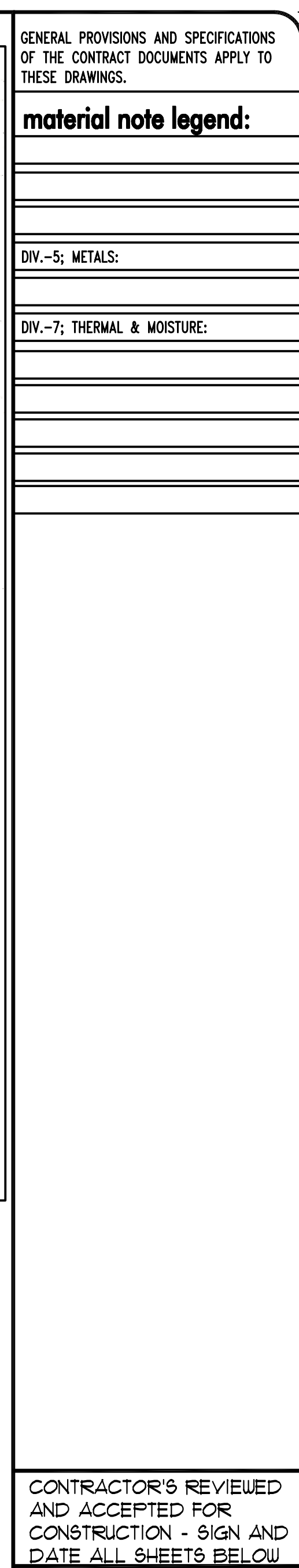


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m/e/c: --  
civil: --


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sheet no.	designed: jo drawn: jo reviewed: jo

**A4.0**

of 9



seal:







SEE SHEET A2.0 FOR: GENERAL, DEMO, & REPAIR NOTES  
SEE SHEET A3.0 FOR VIEW POINT LOCATIONS

**DEMOLITION NOTES - SCRIM/SCREEN**

- 1 REMOVE EXISTING scrim/screen  
2 REMOVE EXISTING trim, fasteners, washers etc.

**INSTALLATION NOTES - SCRIM/SCREEN**

- 1 INSTALL NEW SCRIM/SCREEN-SEE 5/A4.4, 6/A4.4, 7/A4.4 & 8/A4.4  
2 INSTALL NEW ANGLE-SEE 6/A4.4  
3 INSTALL NEW FASTENERS, WASHERS ETC. SEE-5/A4.4 & 7/A4.4

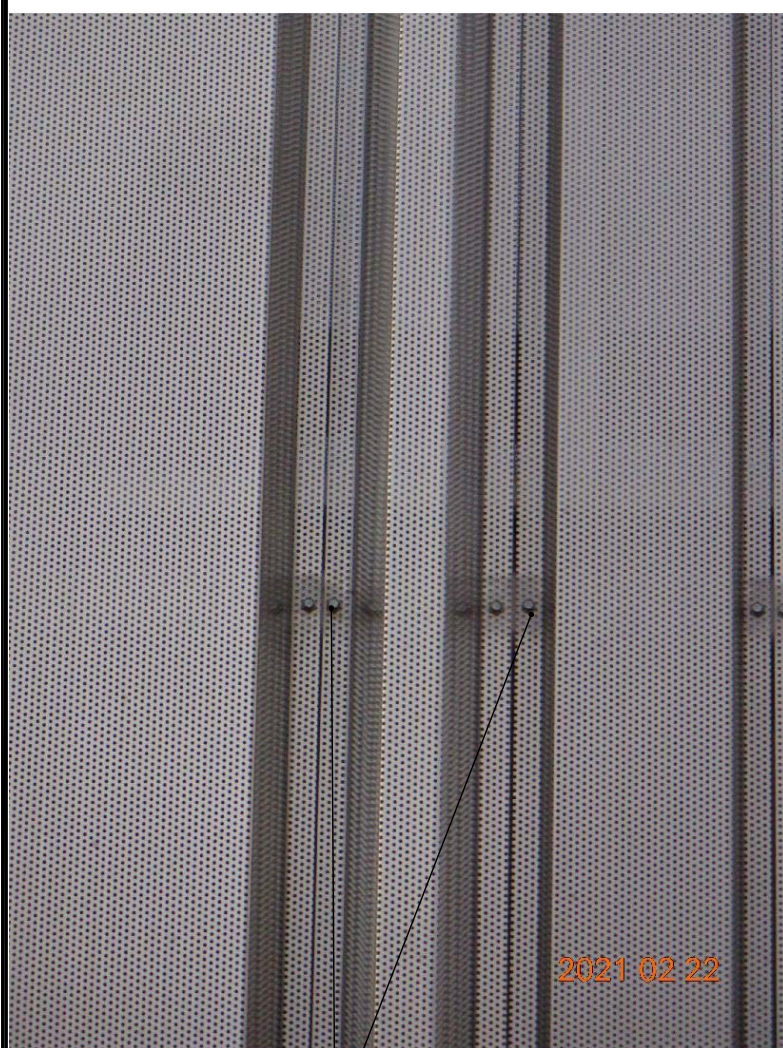
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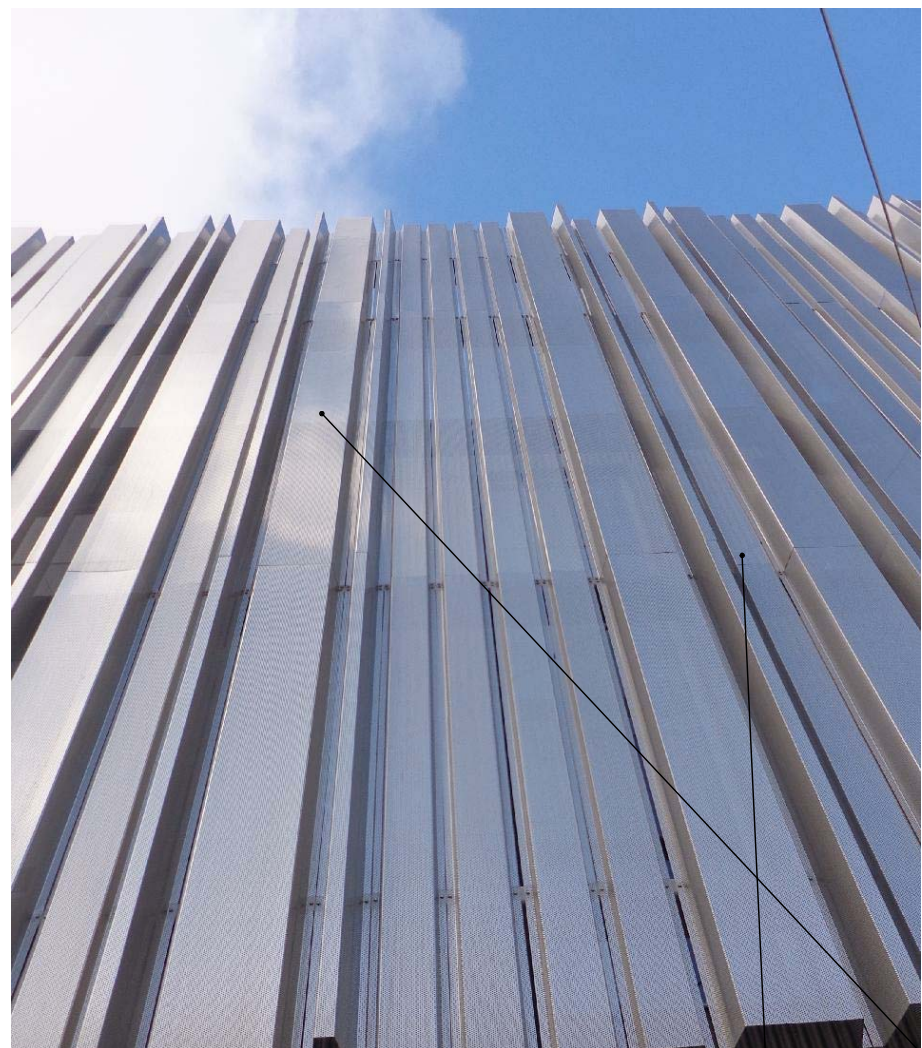
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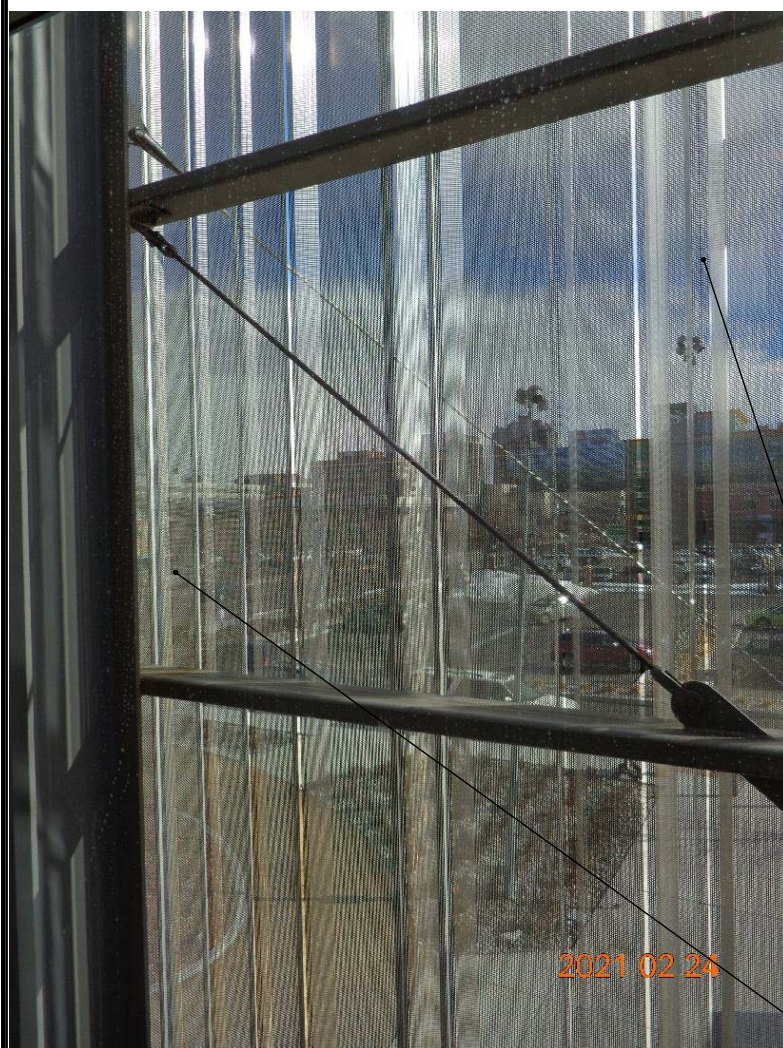
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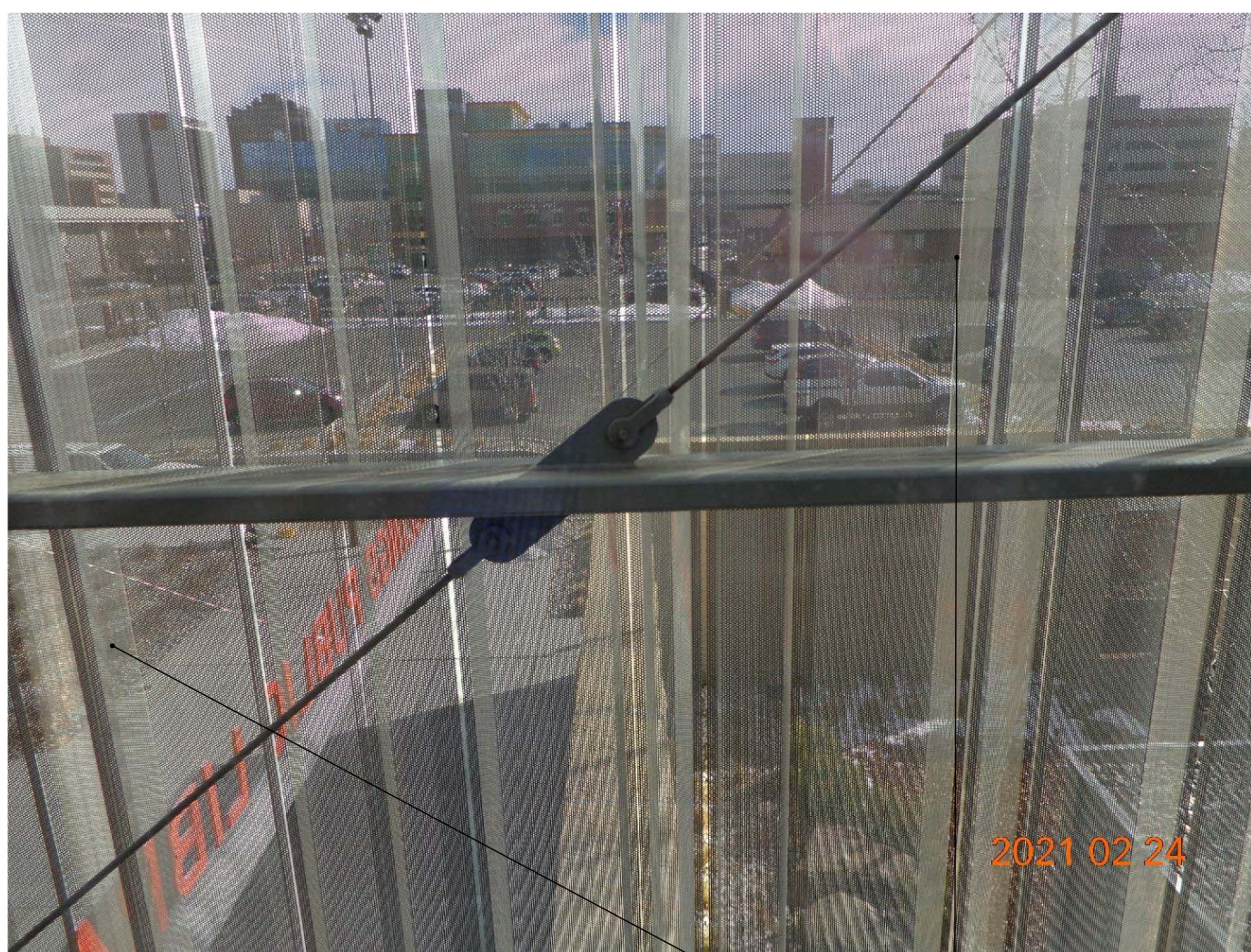
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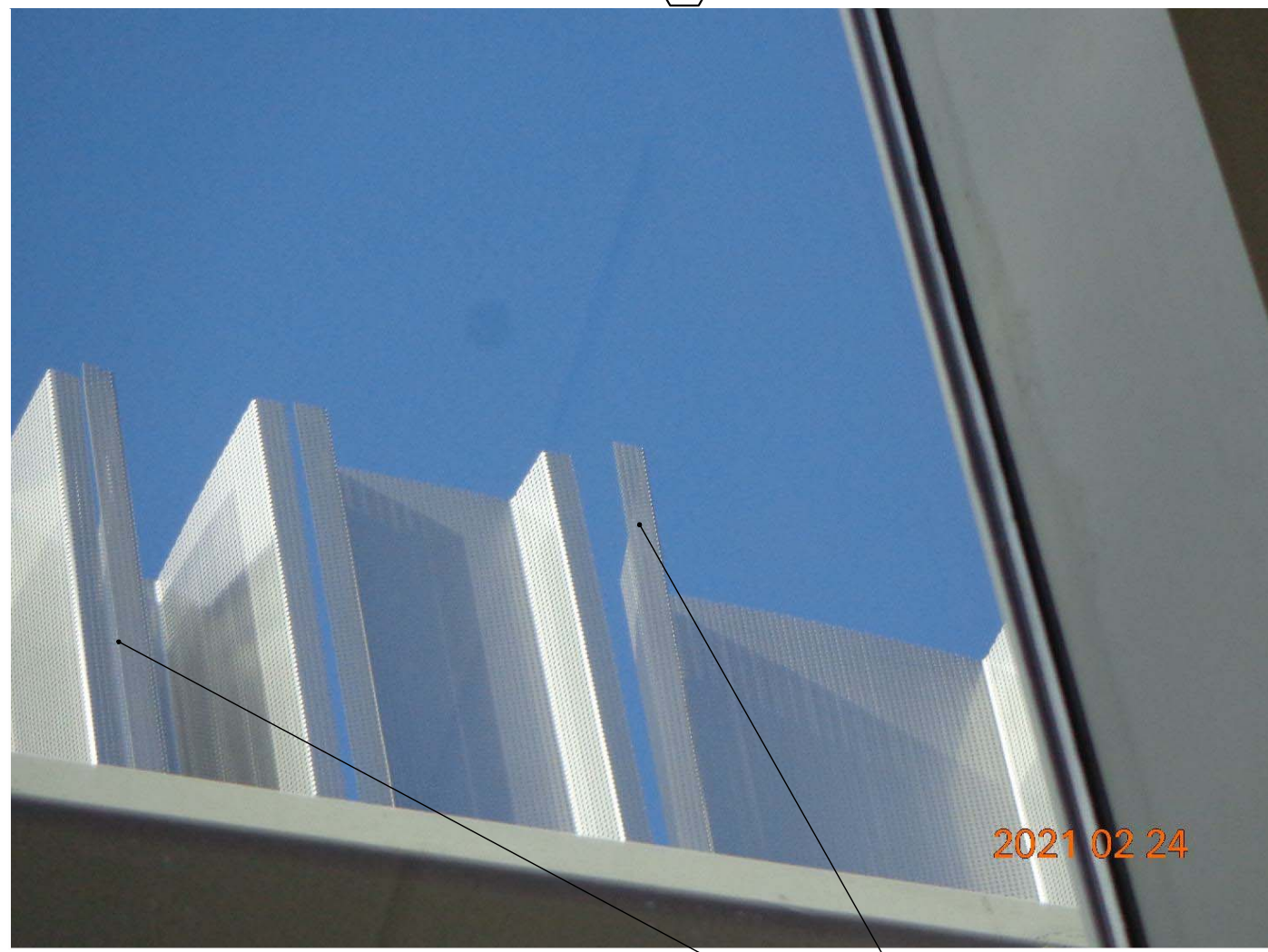
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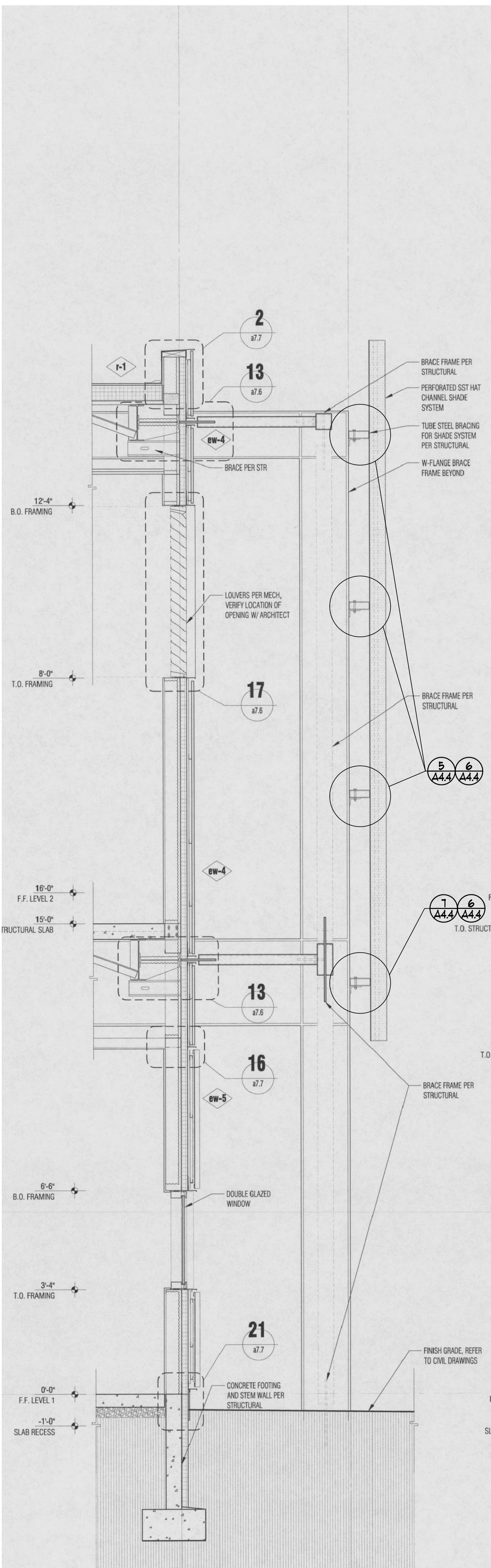
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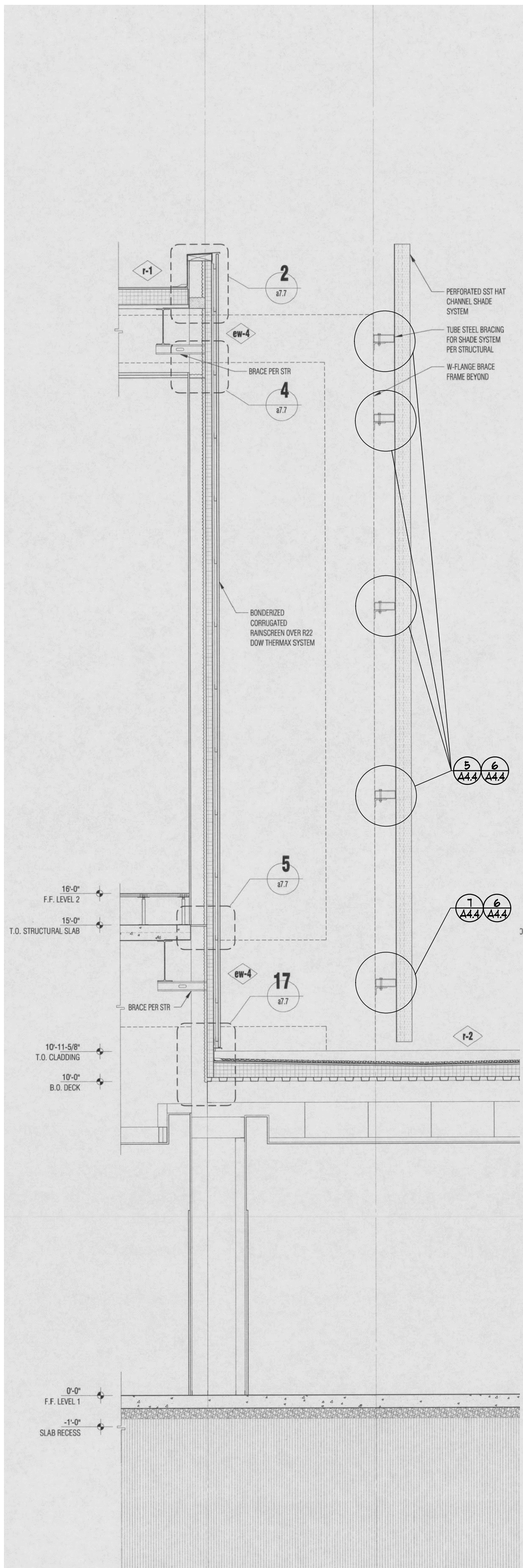
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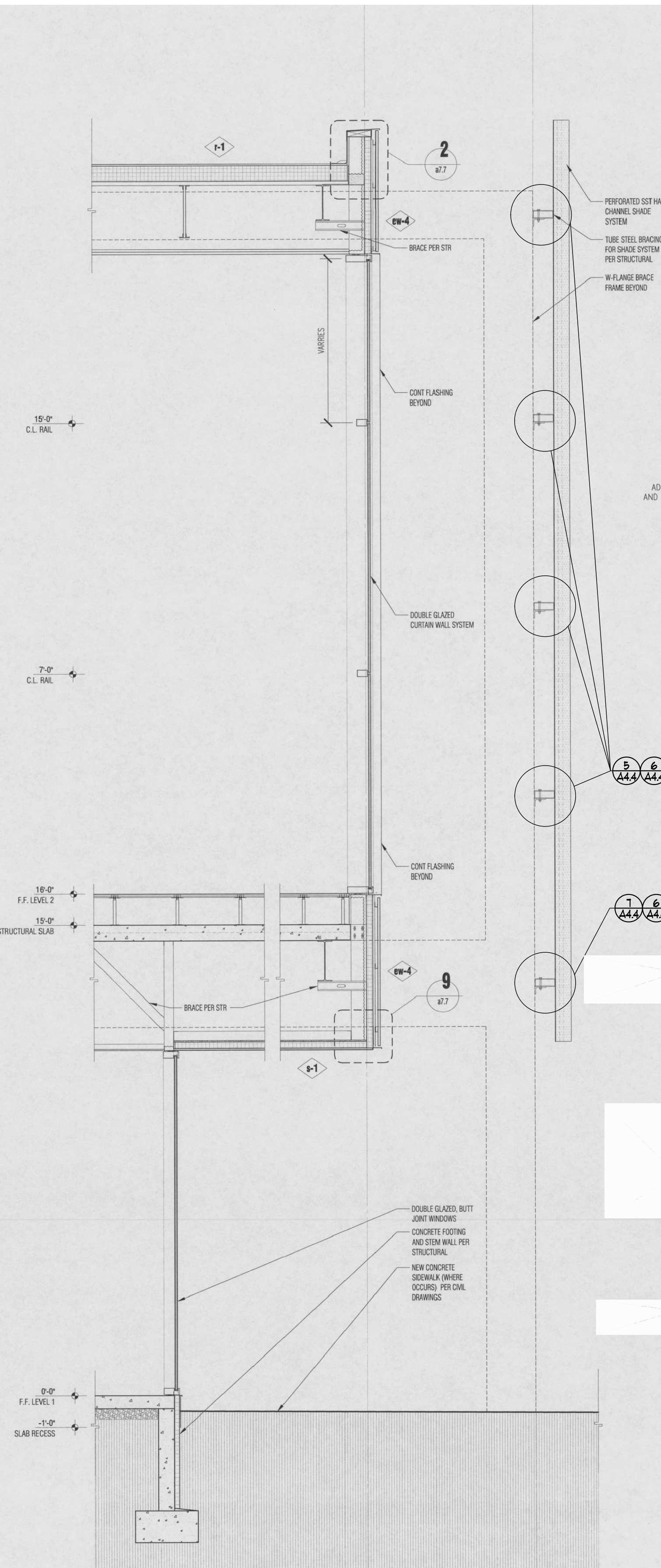
8  
VP  
view point  
nts



1  
A4.1  
wall section - typ.  
nts - reference drawing - north elev. opposite hand



2  
A4.1  
wall section - typ.  
nts - reference drawing - north elev. opposite hand



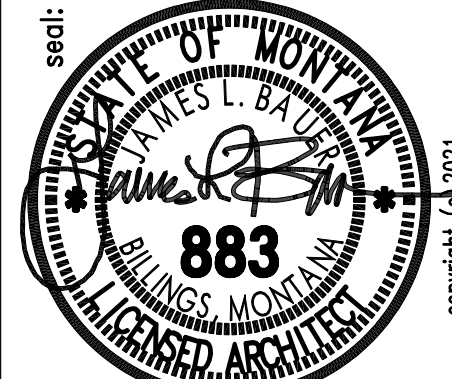
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A4.1  
wall section - typ.  
nts - reference drawing - north elev. opposite hand

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no.	revision	by	date

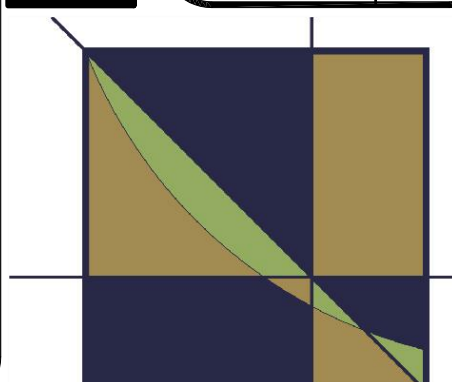
PROJECT: SCRIM & SKYLIGHT REPLACEMENT  
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SHEET TITLE: EXTERIOR ELEVATION - SOUTH  
PHOTOS & NOTES  
KEY NOTES



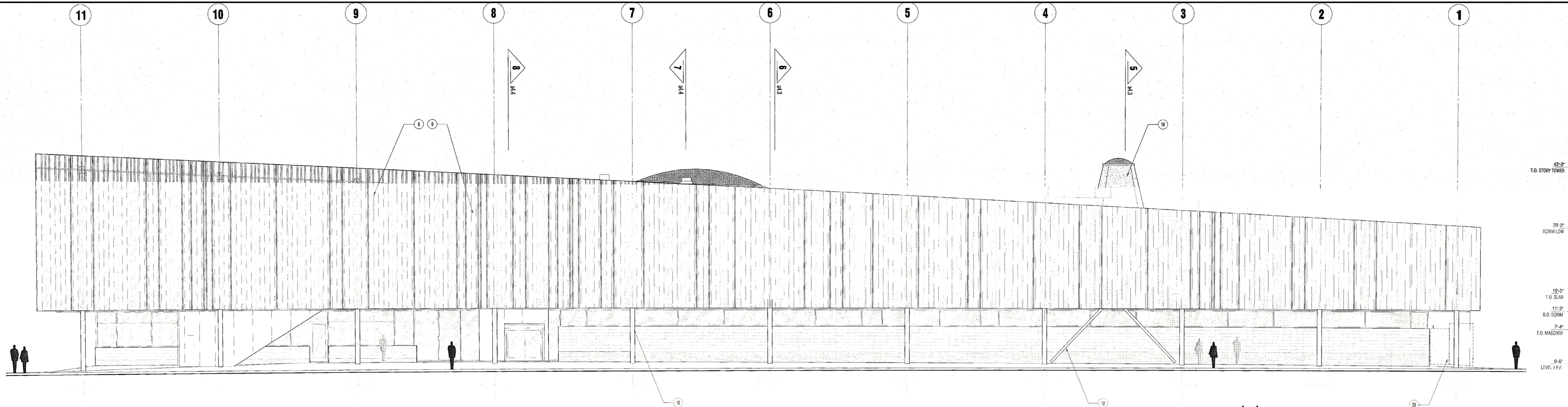
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consultants: Phil Green P.E.  
Struct: m/f/c  
Civil: -

project no.: p36107  
sheet no.: A4.1  
date: 6/9/21  
designed: jlb  
drawn: jlb  
reviewed: jlb







**sheet notes**

- A. TYPICAL NOTATION USED THROUGHOUT. DRAWINGS. NOT ALL NOTED NOTES MAY APPLY TO A PARTICULAR SHEET. REPEATING, SIMILAR ELEMENTS NOTED ON ONE DRAWING MAY OR MAY NOT BE NOTED ON A SIMILAR RELATED DRAWING IN THE SERIES.
- B. BUILDING 0'-0" IS LEVEL 1 FINISH FLOOR. LEVEL 2 FINISH FLOOR IS 10'-0".
- E. UNRENDERED CONSTRUCTION IS SHOWN FOR REFERENCE. SCALE, AND COORDINATION PURPOSES ONLY.
- F. NOT USED
- G. NOT USED

- H. ALL PAINTED EXTERIOR STEEL IS TO BE PAINTED WITH HIGH PERFORMANCE PAINT, MATCH EXISTING
- I. NOT USED
- J. NOT USED
- K. NOT USED

**keyed notes**

1. NOT USED
2. NOT USED
3. NOT USED
4. NOT USED
5. NOT USED
6. NOT USED
7. NOT USED
8. PERFORATED STAINLESS STEEL HAT CHANNEL. SCRM. 3 CUSTOM ROLLED 20 GA HAT PROFILES IN RANDOM PATTERN OVER SCRM SUPPORT FRAME. TOP OF EACH MEMBER CUT FLAT WITH EACH SUCCESSOR. TOP PLACED LOWER TO ACHIEVE SLOPE.
9. PAINTED TUBE STEEL SCRM SUPPORTS ATTACHED TO OUTSIDE FACE OF BUILDING COLUMNS. 3" X 8" HORIZONTAL MEMBERS AT 6'-0" O.C.
10. NOT USED
11. EXPOSED, PAINTED WIDE FLANGE BEAM. BEAM PENETRATES BUILDING ENVELOPE AT METAL SKIN.
12. PAINTED TUBE STEEL BRACED FRAME PER STRUCTURAL.
13. NOT USED
14. NOT USED
15. NOT USED
16. SUSPENDED BUILDING DROPPAGE. INTERNALLY ILLUMINATED BETWEEN TWO PLANES OF STEEL MATERIAL.
17. NOT USED
18. NOT USED
19. ETRE SKYLIGHT SYSTEM
20. NOT USED
21. NOT USED
22. NOT USED
23. NOT USED
24. NOT USED
25. LINE OF ROOFING SURFACE BEHIND PARAPET (DASHED).

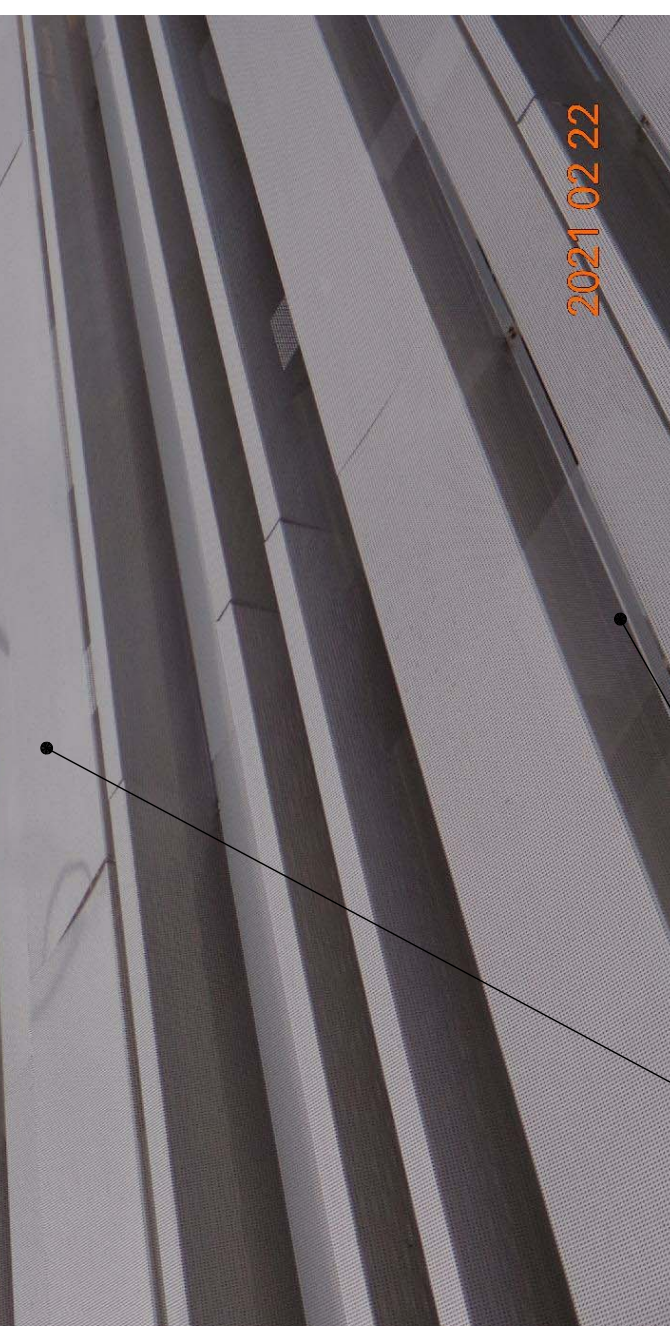
**4 north elevation (opening scrim)**

**1 north elev.**  
nts- reference drawing



**2 view point**  
nts

**1**



**3 view point**  
nts



**4 view point**  
nts

**DEMOLITION NOTES - SCRM/SCREEN**

1. REMOVE EXISTING scrim/screen
2. REMOVE EXISTING trim, fasteners, washers etc.

**INSTALLATION NOTES - SCRM/SCREEN**

1. INSTALL NEW SCRM/SCREEN-SEE 5/A4.4, 6/A4.4, 7/A4.4 & 8/A4.4
2. INSTALL NEW ANGLE-SEE 6/A4.4
3. INSTALL NEW FASTENERS, WASHERS ETC. SEE-5/A4.4 & 7/A4.4

SEE SHEET A2.0 FOR: GENERAL, DEMO, & REPAIR NOTES

SEE SHEET A3.0 FOR VIEW POINT LOCATIONS

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DIV.-7; THERMAL & MOISTURE:

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contractor's signature \_\_\_\_\_ date \_\_\_\_\_

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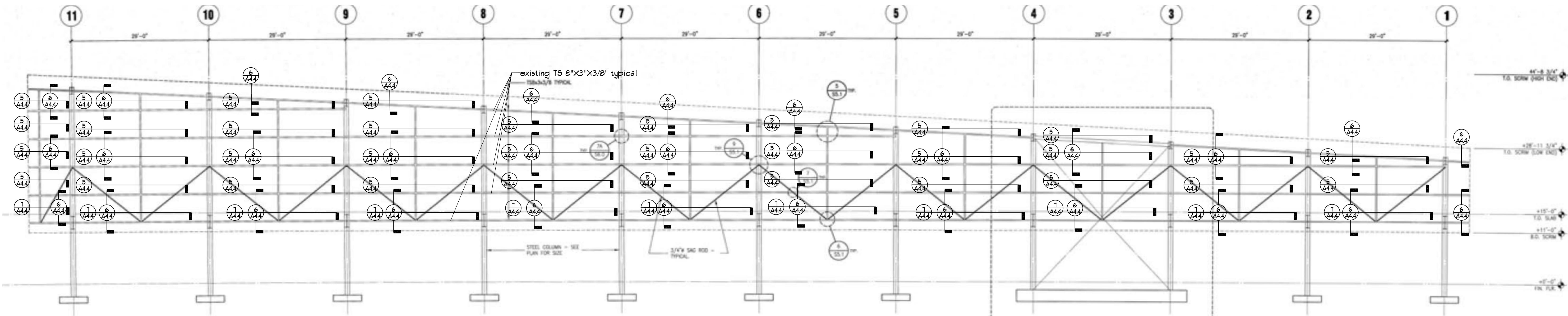
sheet title: **EXTERIOR ELEVATION - NORTH PHOTOS & NOTES KEY NOTES**

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consultants: architect: **PAUL GREEN P.E.**  
project no.: **336107**  
sheet no.: **A4.2**  
date: **6/9/21**  
designed: **JD**  
drawn: **JD**  
reviewed: **JD**  
of: **2**

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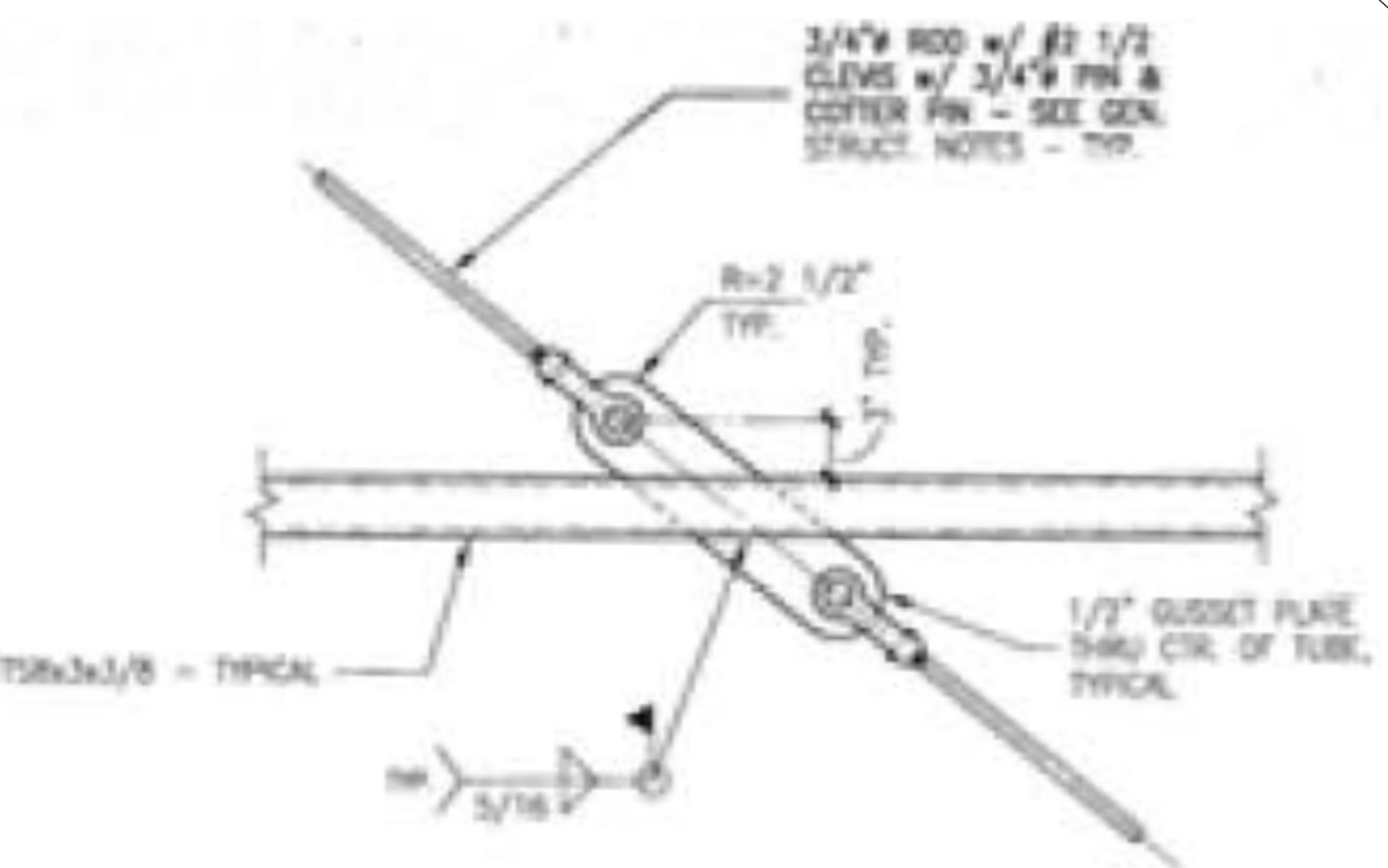




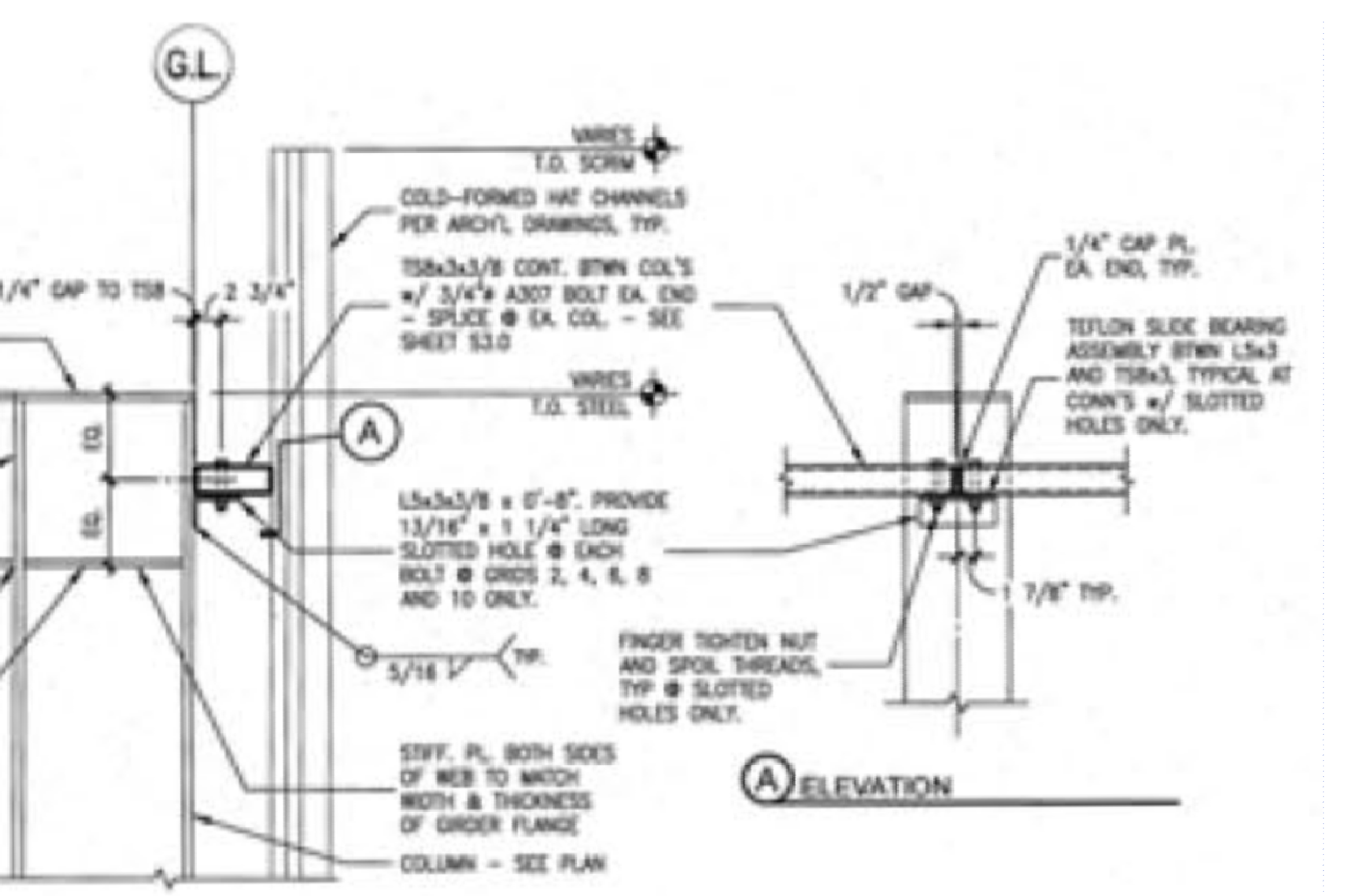
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nts - reference drawing (south similar - opposite)



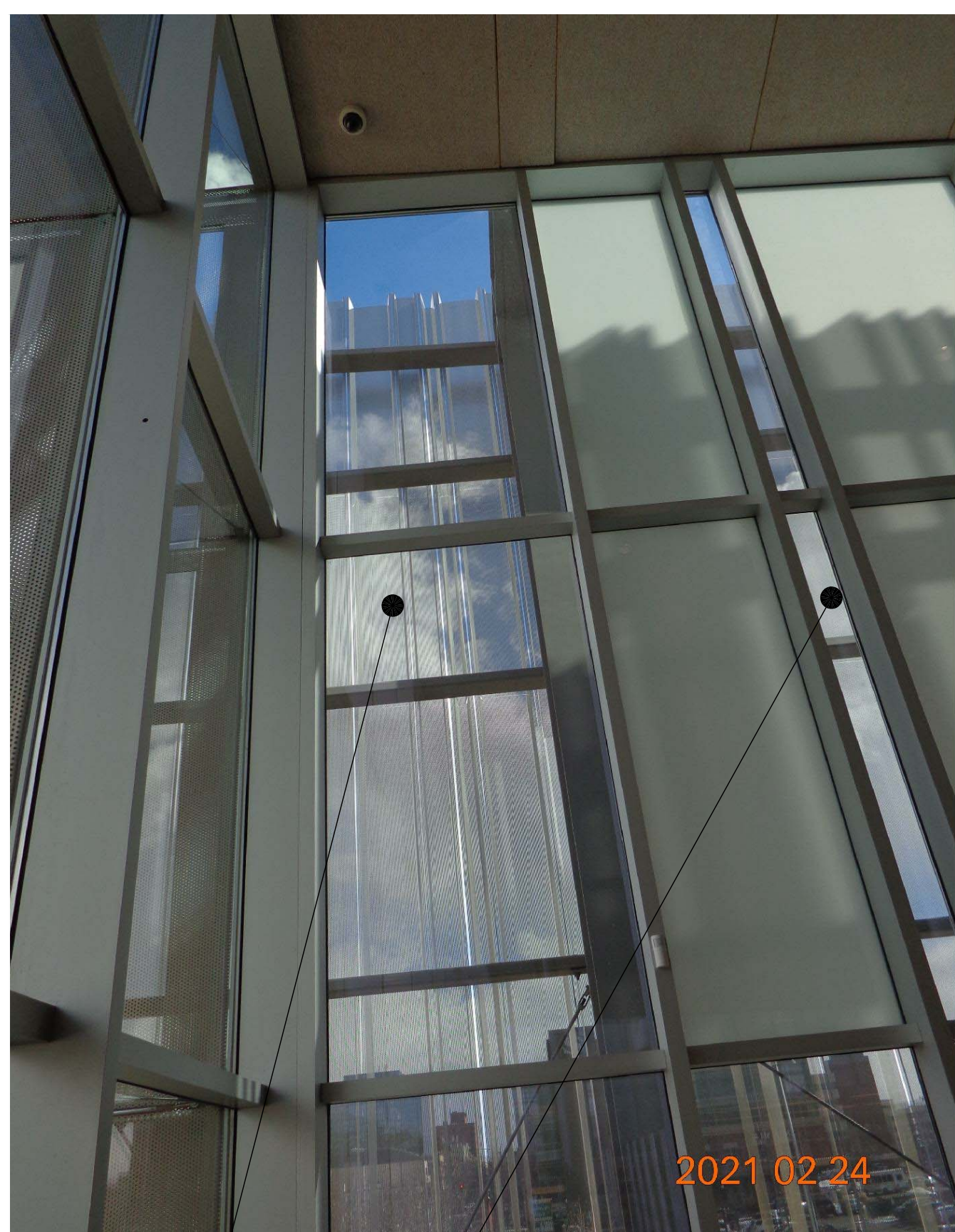
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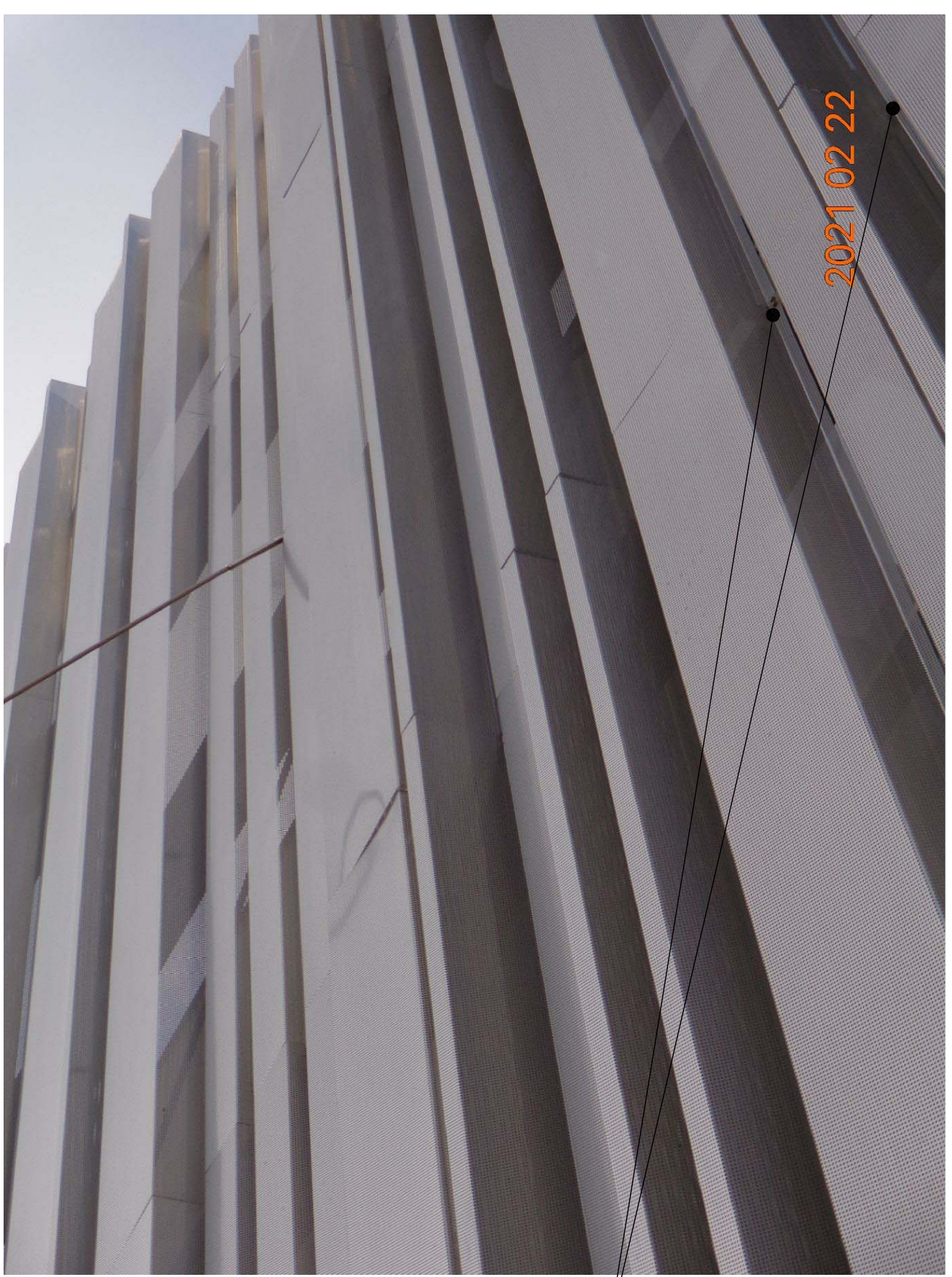
detail typ.  
nts - reference drawing



detail typ.  
nts - reference drawing



view point  
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DEMOLITION NOTES - SCRIM/SCREEN

- 1 REMOVE EXISTING scrim/screen
- 2 REMOVE EXISTING trim, fasteners, washers etc.

INSTALLATION NOTES - SCRIM/SCREEN

- 1 INSTALL NEW SCRIM/SCREEN-SEE 5/A4.4, 6/A4.4, 7/A4.4 & 8/A4.4
- 2 INSTALL NEW ANGLE-SEE 6/A4.4
- 3 INSTALL NEW FASTENERS, WASHERS ETC. SEE-5/A4.4 & 7/A4.4

SEE SHEET A2.0 FOR: GENERAL, DEMO. & REPAIR NOTES  
SEE SHEET A3.0 FOR VIEW POINT LOCATIONS

GENERAL PROVISIONS AND SPECIFICATIONS OF THE CONTRACT DOCUMENTS APPLY TO THESE DRAWINGS.

MATERIAL NOTE LEGEND:

DIV.-5; METALS:

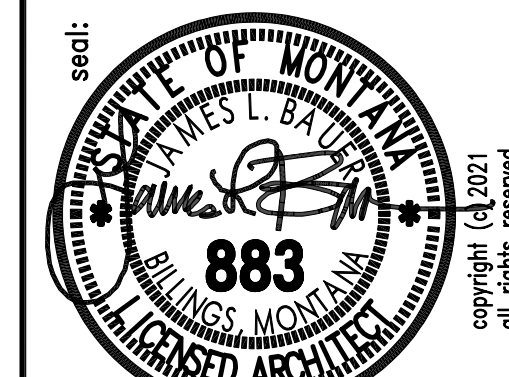
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PHOTOS & NOTES  
KEY NOTES



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civil: --  
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consultants: Paul Green P.E.  
architect: m/a/c  
civil: --  
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architect: m/a/c  
civil: --

