Development Services

From Concept to Construction

Phone: 503-823-7300 Email: bds@portlandoregon.gov 1900 SW 4th Ave, Portland, OR 97201 More Contact Info (http://www.portlandoregon.gov//bds/article/519984)

APPEAL SUMMARY Status: Hold for Additional Information	
Appeal ID: 23427	Project Address: 3330 SE 69th Ave
Hearing Date: 2/5/20	Appellant Name: Tim Ayersman
Case No.: B-018	Appellant Phone: 971-200-7213
Appeal Type: Building	Plans Examiner/Inspector: John Cooley
Project Type: commercial	Stories: 3 Occupancy: E, B, A-2, A-3 Construction Type: II-B
Building/Business Name: Portland Public Schools - Kellogg Middle School	Fire Sprinklers: Yes - Fully-sprinklered throughout
Appeal Involves: Erection of a new structure	LUR or Permit Application No.: 19-130649-CO
Plan Submitted Option: pdf [File 1]	Proposed use: Middle School (Grades 6-8)

APPEAL INFORMATION SHEET

Appeal item 1

Code Section	§703.2 Fire-resistance ratings
Requires	§ 703.2 Fire-resistance ratings. Where materials, systems or devices that have not been tested as part of a fire-resistance-rated assembly are incorporated into the building element, component or assembly, sufficient data shall be made available to the building official to show that the required fire-resistance rating is not reduced.
Code Modification or Alternate Requested	This appeal was requested by BDS Plans Examiner, John Cooley. The intent of the appeal is to confirm the fire-resistance-rated assembly of a fire wall proposal that does not have a UL/GA listed assembly.
Proposed Design	The proposed fire wall design is based on a listed GA shaft wall assembly (GA 7065.5) with an ~8" jog around the steel structure (W14x22) and an engineering judgement at the metal deck connection provided by Hilti. The required fire-resistance rating is met with is proposal and is improved at the low side beam and supporting columns which will now be protected with spray fire-resistant materials (SFRM) to the same fire-resistance rating as the fire wall assembly, in contrast to the permitted design that includes 1-hour fire-resistance rating for this structure. This proposal only occurs at the double structure running north-south adjacent to Gridline JJ between Gridline 5 and Gridline 8. All other fire wall conditions remain as permitted. This direction provides added protection to the structure versus the original permitted fire wall and creates a detail that is more accessible for inspection.

Appeals | The City of Portland, Oregon

The following attachments have been arranged to walk through the proposal starting with architectural plans to wall section and architectural detail then followed by structural plans and details. SEE ATTACHED: ARCHITECTURAL FOR INFORMATION: FLS PLAN SECOND FLOOR - SECTOR A&B (G-202) ? Location of Fire Wall and appeal proposal. ? 1-hour rated roof assembly and supporting element extents. FOR INFORMATION: WALL SECTION - FIRE WALL AT ADMIN (4/A-419) ? Wall section at Fire Wall along Gridline JJ. ? Location of revised Fire Wall detail. ? Description of 1-hour rated roof assembly. PROPOSED FIRE WALL REVISION CONCEPT ? Fire Wall revision overview sketch. N-S FIRE WALL AT LOW ROOF (2/A-718) ? Proposed revised detail at Fire Wall. ENGINEERING JUDGEMENT FIRESTOP DETAIL (352536b) ? Fire Wall connection to deck detail. FOR INFORMATION: Excerpt from GA-600-2015 FIRE RESISTANCE DESIGN MANUAL ? Listing for GA WP 7065.5. STRUCTURAL LOW ROOF FRAMING PLAN - SECTOR C (S-221C) ? Location of low side column bracing at Fire Wall. DETAIL AT FIRE WALL (12/S-605) ? Melt-away clip location ? Extent of Fire Wall enclosure LOW COLUMN BRACING AT FIRE WALL (11/S-606) ? Out-of-plane stability bracing of the low side column to the steel frame on Gridline JJ per Structural Plans Examiner (Greg Wilken) request. Reason for alternative The alternate Fire Wall design provides equivalent fire protection, life safety, and structural capacity while improving inspection accessibility, sequencing of work for the contractor, and increases the level of protection on the structure for the low building at the building separation.

APPEAL DECISION

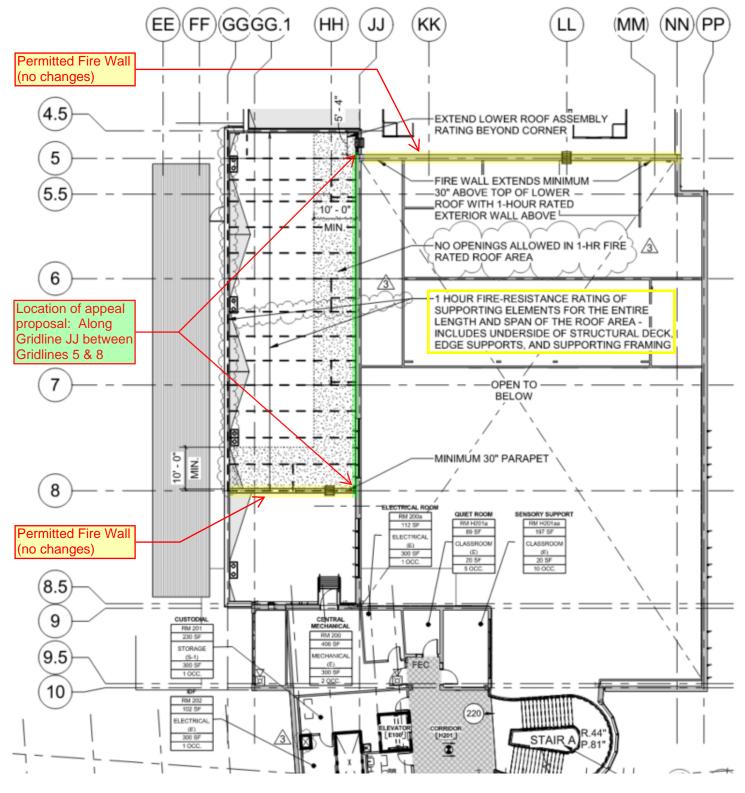
Alternate 1 hour fire rated fire wall assembly with engineering analysis: Hold for additional information. Appellant may contact John Butler (503 823-7339) with questions.

Additional information is submitted as a no fee reconsideration, following the same submittal process and using the same appeals form as the original appeal. Indicate at the beginning of the appeal form that you are filing a reconsideration and include the original assigned Appeal ID number. The reconsideration will receive a new appeal number.

Include the original attachments and appeal language. Provide new text with only that information that is specific to the reconsideration in a separate paragraph(s) clearly identified as "Reconsideration Text" with any new attachments also referenced. No additional fee is required.

https://www.portlandoregon.gov/bds/appeals/index.cfm?action=entry&appeal_id=23427

FOR INFORMATION ONLY Not to Scale

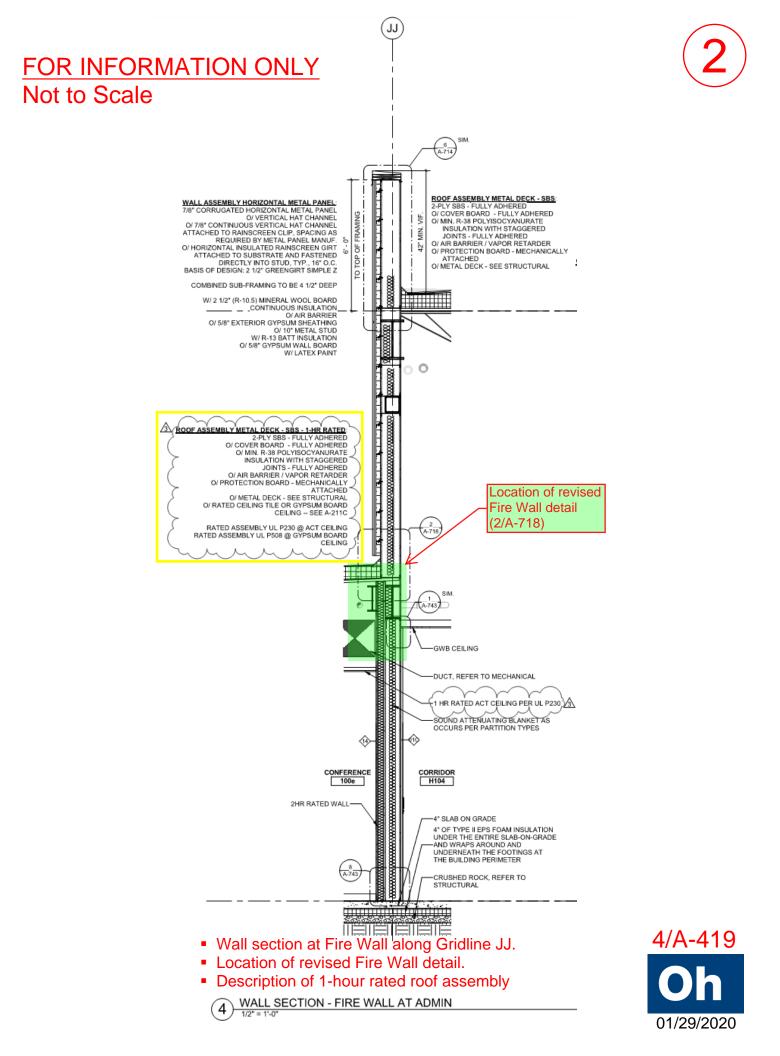


Location of Fire Wall and appeal proposal.

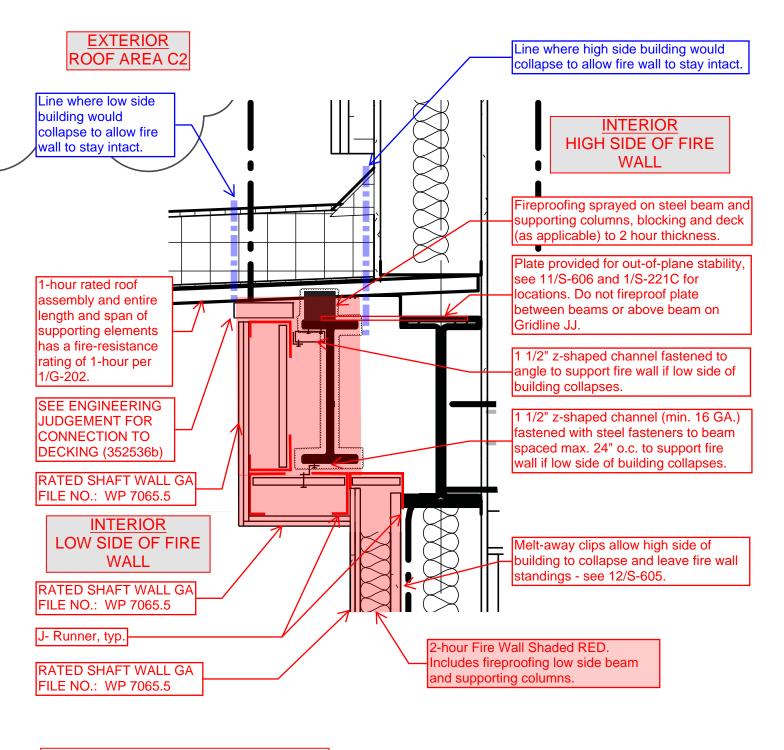
1-hour rated roof assembly and supporting element extents.



1



Proposed Fire Wall Revision Concept Not to Scale



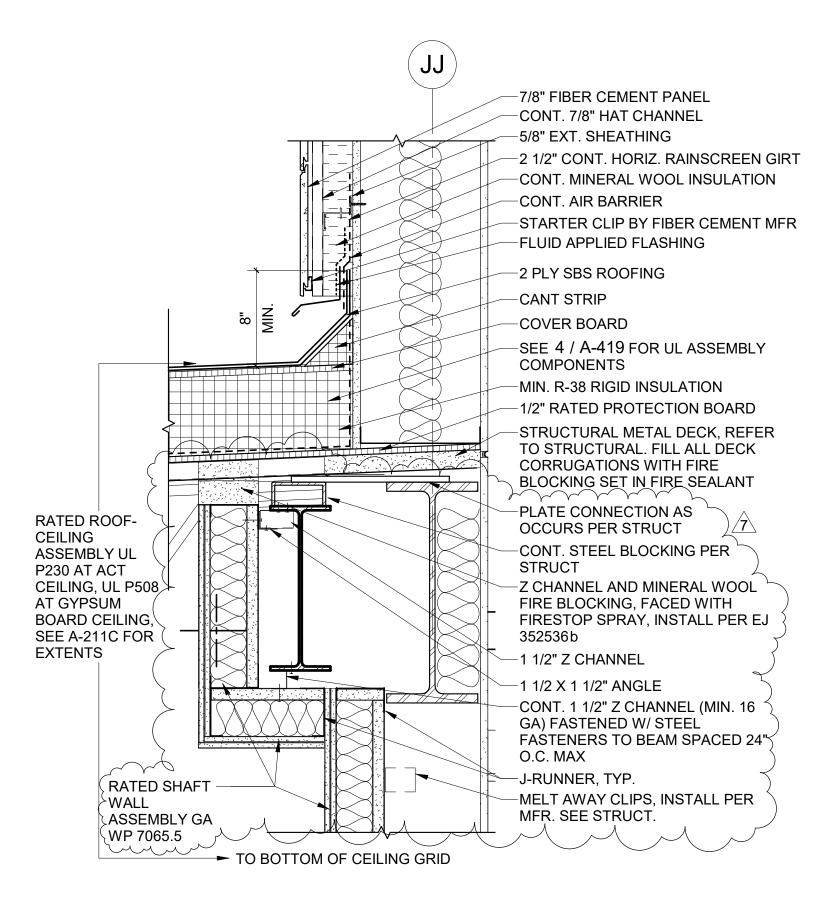
See 4/A-419 and 2/A-718 for: - Exterior Wall and Roof Construction - UL for Rated Roof - Ceiling Assembly

- GA Rated Shaft Wall Assembly



• Fire Wall revision overview sketch.

Proposed Fire Wall Detail 1 1/2" - 1'-0"



N-S FIRE WALL AT LOW ROOF



2

Proposed revised detail at Fire Wall

2/A-718



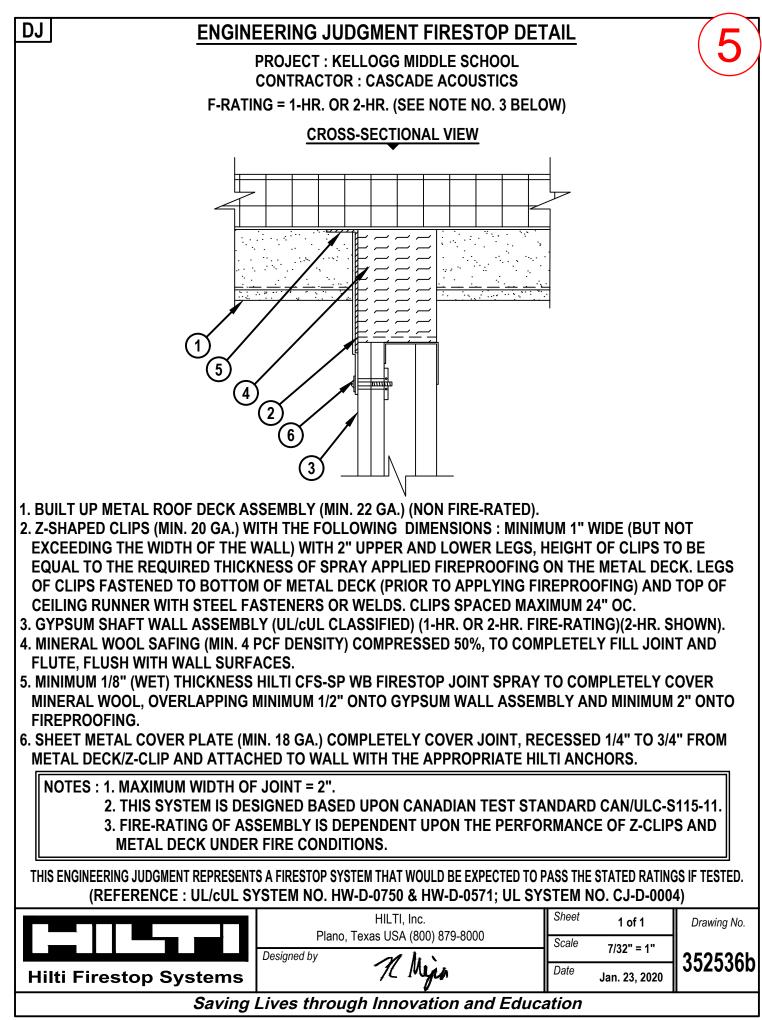
KELLOGG MIDDLE SCHOOL

3330 SE 69TH AVE. PORTLAND, OR 97206

REVISION: ASI-019	DATE:
SCALE: As indicated	DRAWN BY: MHB
REFERENCE SHEET NUMBER:	A-718



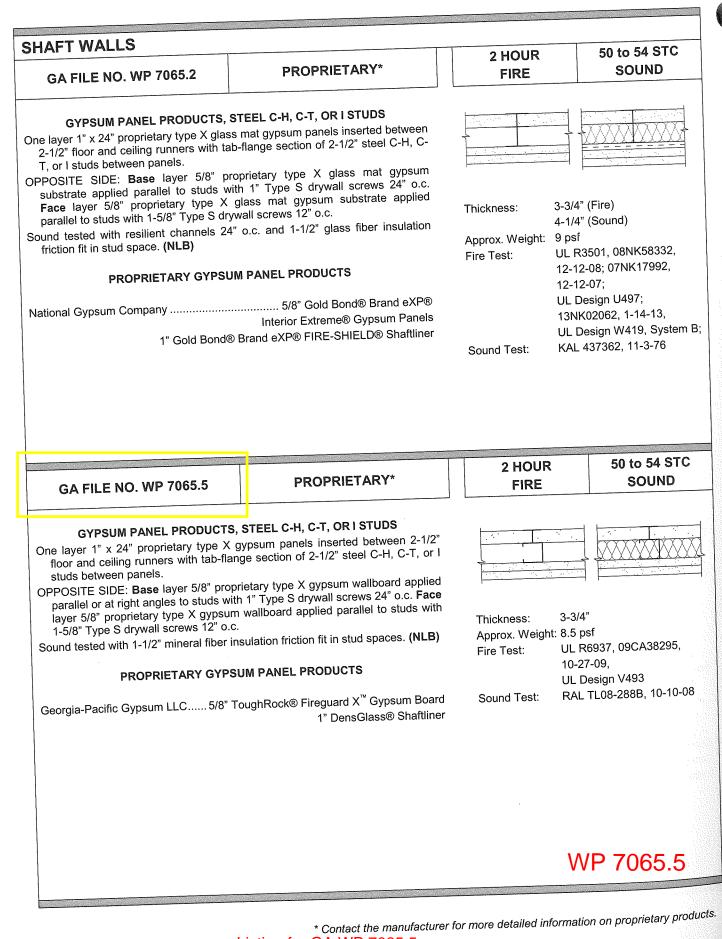
Project # 90031



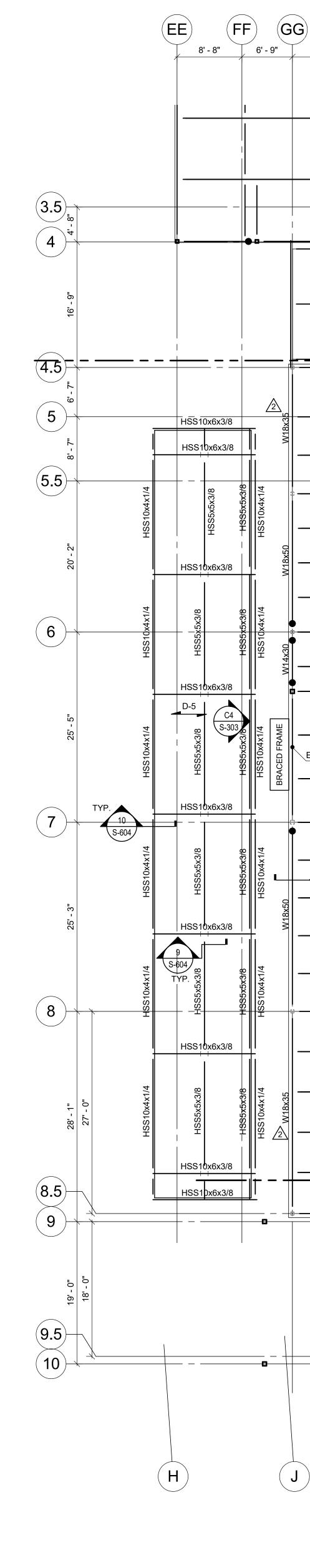
Fire Wall connection to deck detail.

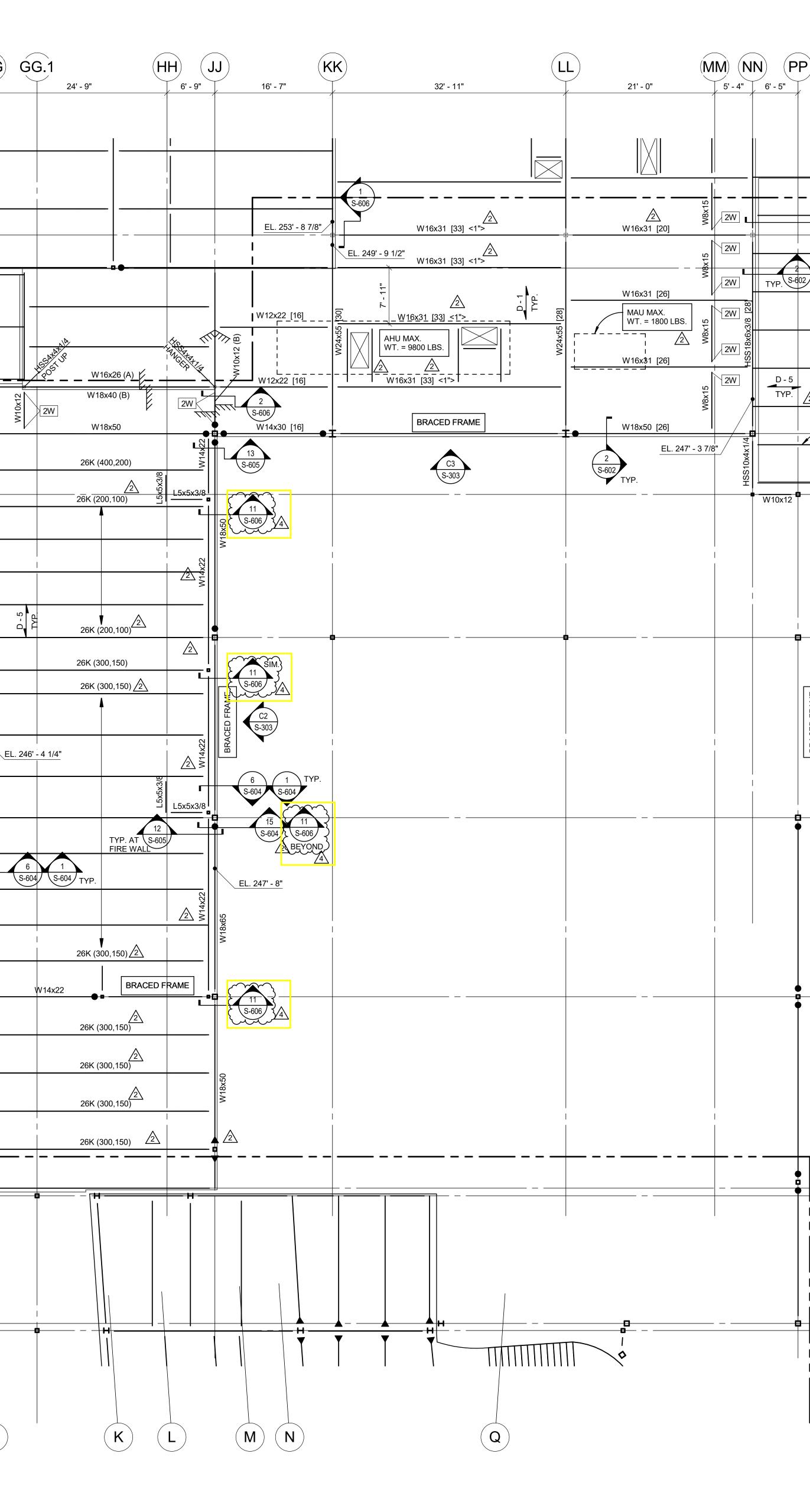
FOR INFORMATION ONLY

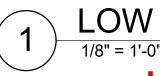
140



Listing for GA WP 7065.5.







) LOW ROOF FRAMING PLAN - SECTOR C 1/8" = 1'-0"Location of low side column bracing at Fire Wall. 1/S-221C

NOTES:

1.

4.

5.

6.

\S-606

— HSS8x4x1/4

@ 6'-0" o.c. MAX.

C5 S-303

REF. SHEET S-601 THRU S-604 FOR TYPICAL STEEL DETAILS.
BEAMS ARE EQUALLY SPACED IN BAYS U.N.O.

X

XC

BEAMS ARE CENTERED ON COLUMNS, WALLS AND/OR GRID LINES, U.N.O INDICATES CONNECTION TYPE. REF. SHEET S-601 FOR SCHEDULES AND CONNECTION DETAILS. REF. NOTE 7 WHERE CONNECTION TYPES ARE

NOT SHOWN. INDICATED CONNECTION TYPE TO CONCRETE REF. 2/S-601 FOR DETAIL

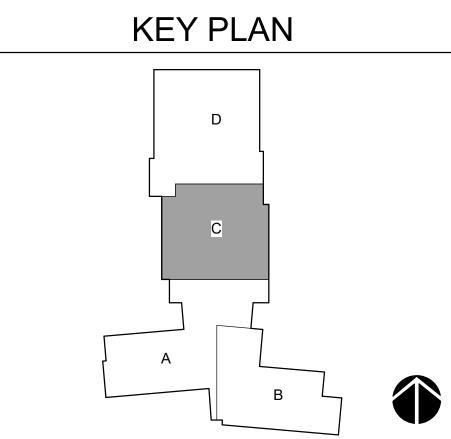
PROVIDE THE FOLLOWING CONNECTION TYPES UNLESS NOTED OTHERWISE ON THE PLANS:

BEAM DESIGNATION	CONNECTION TYPE
W8	2D
W10	2
W12, W14	3
W16, W18	4
W21, W24	5
W27, W30	6
W33, W36	7

7.	[XX]	INDICATES NUMBER OF 3/4"Øx4 1/2" HEADED STUDS EVENLY DISTRIBUTED ALONG BEAM LENGTH. REF. SHEET S-602 FOR TYPICAL COMPOSITE BEAM STUD SPACING DETAIL.
8.	<x"></x">	INDICATES UPWARD CAMBER AT MID SPAN.
9.	D - X	INDICATES SPAN DIRECTION OF DECK. REF. SCHEDULE 1/S-602 FOR DECK INFORMATION.
10.	EL. XXX'-XX"	INDICATES TOP OF SLAB ELEVATION.
11.	EL. XXX'-XX"	INDICATES BOTTOM OF DECK ELEVATION.
12.	·	INDICATES MOMENT CONNECTION. REF. 11 AND 12/S-601FOR DETAILS, U.N.O.
13.	•	INDICATES SFRS COLLECTOR CONNECTION. REF. 1-4/S-622 FOR DETAILS.
14.		REF. SHEET S-603 FOR TYPICAL DECK REINFORCING AT OPENINGS.
15.	(A)	INDICATES ABOVE.
16.	(B)	INDICATES BELOW
17.	(E)	INDICATES EXISTING.
18.	— , — _ ! _	INDICATES COLUMN BELOW.
19.	\boxtimes	INDICATES ROOF TIE OFF. REF. 13/S-602 FOR CONNECTION DETAILS.
20.		INDICATES ADDITIONAL LOAD DUE TO SNOW DRIFT.
21.	XXX	INDICATES MEMBER PART OF SEISMIC FORCE RESISTING SYSTEM (SFRS). REF. GENERAL STRUCTURAL NOTES, SPECIFICATIONS, AND DETAILS FOR REQUIREMENTS.
22.		INDICATES SPAN DIRECTION AND EXTENT OF 19W4 (1x3/16) BAR GRATING ATTACH w/ 3/16" FILLET WELDS, 3/4" LONG @ 18" o.c. AT EACH END OF BEARING BARS. MAX. SPAN OF BAR GRATING IS 5'-0".
23.		REF. ARCH. FOR DIMENSIONS NOT SHOWN.
24.	XSC	INDICATES BOLTED CONNECTION w/ SLIP CRITICAL BOLTS.

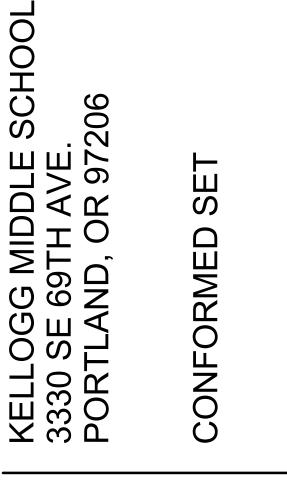
NOTES:

1.	XXK (YYY,ZZZ)	INDICATES XX" DEEP K SERIES OPEN WEB JOIST WITH A TOTAL UNIFORM DEAD LOAD PLUS LIVE LOAD OF YYY PLF AND A UNIFORM LIVE LOAD OF ZZZ PLF (SERVICE LEVEL). REF. PLAN FOR ADDITIONAL LOADS.
2.	+ The	INDICATES ADDITIONAL VERTICAL LOAD IN KIPS (SERVICE LEVEL) TO TOP CHORD OF OWJ. "D" INDICATES DEAD LOAD. "L" INDICATES LIVE LOAD AND "E" INDICATES SEISMIC LOAD.
3.	ХК	INDICATES AXIAL TENSION OR COMPRESSION LOAD IN KIPS (SERVICE LEVEL) IN TOP CHORD OF JOIST DUE TO WIND OR SEISMIC LOADS.
4.		LOADS BEYOND WHAT ARE SHOWN ON THE PLANS SHALL NOT BE APPLIED TO OPEN WEB JOISTS OR GIRDERS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER OF RECORD.
5.		DO NOT WELD TO OPEN WEB JOISTS EXCEPT AS SHOWN IN DETAILS OR AS APPROVED BY THE ENGINEER OF RECORD.





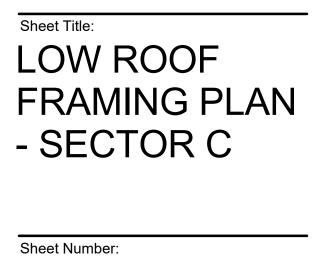




STRUCTURAT STERED PROFESS WGINE 76643PE WAL 10, 2005 KMAL	
Date:	03/11/2019
Project Number:	90031
Drawn By:	JBD
Checked By:	KPFF

Rev	vision Schedule:
2	ASI 01
4	City Revision #5

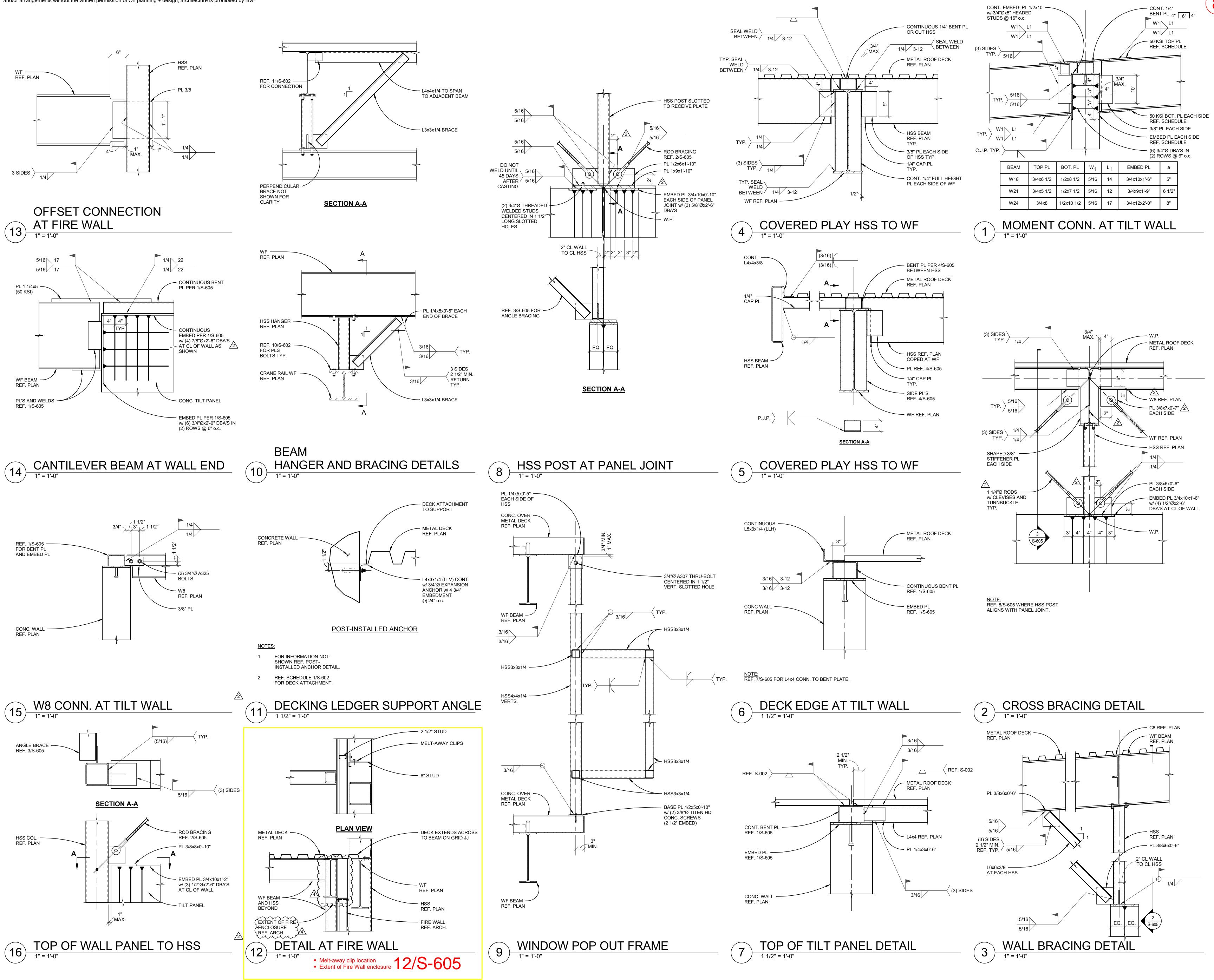
07/03/2019 01/20/2020



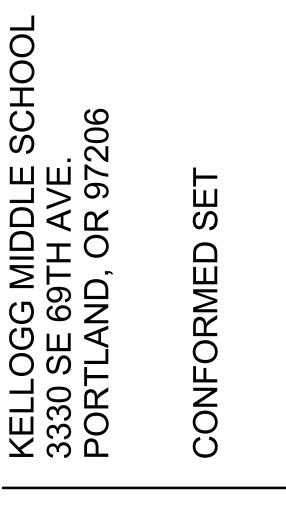
S-221C

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STRUCTURAL STRUCTURAL FERED PROFES INGINE 76643PE FINAN 10, 2005 A INGRA EXPIRES 6-30-2027	
Date:	03/11/2019
Project Number:	90031
Drawn By:	JBD
Checked By:	KPFF
Revision Schedule:	
2 ASI 01 4 City Revision #5	07/03/2019 01/20/2020



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