

SHIPMAN BUILDERS

FEBRUARY 17, 2012

**BUREAU OF RECLAMATION – UC – SLC
125 SOUTH STATE STREET
SALT LAKE CITY, UT 84138-1147**

CONSTRUCTION PROPOSAL

**RE: BLUE MESA EQUIPMENT BUILDING
GUNNISON, CO**

Upon review of the SOLICITATION R12PS40016 - Blue Mesa Equipment Building Erection and specifications, as prepared by the Butler Manufacturing, dated 11/8/2010 for the above referenced project, Shipman Builders presents the following BID PACKAGE.

LOCATION

The project is located at the top of the access road to Blue Mesa Power House, approximately ½ mile west of the junction of Colorado Highways 50 and 92, and 25 miles west of Gunnison, Colorado.

EXECUTIVE SUMMARY

Shipman Builders presents to you the following proposal to provide construction services for the new 6 Bay Clear Span 7500 SF Pre-Engineered Metal Building. Shipman Builders shall provide all equipment, labor, earthwork, compacted gravel base, concrete foundations, and finish materials to construct a new pre-engineered clear span metal building. This project consists of 200 CYDS of Foundations / Flatwork and roughly 27TNS Metals/Structure. The structure is being supplied by others as mentioned in the solicitation along with the items mentioned in the Government-Furnished Products, sub section 016440 - 3. A 42-inch high decorative rock wainscot may be included in Work at the Government's option if alternate bid schedule is selected. Wainscot would be placed only on two adjacent sides of building as directed by Curecanti Field Division. Shipman Builders shall perform all work per requirements of Contract Drawings, these Specifications, and the building Manufacturer.

TECHNICAL APPROACH / SCOPE OF WORK

Shipman Builders shall provide the materials, manpower, and equipment, as required to perform the following construction services:

- 1. MOBILIZATION AND PREPARATORY WORK**
- 2. Movement of personnel, equipment, supplies, and incidentals to the project site.**

BLUE MESA EQUIPMENT BLDG.

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3. The establishment of offices, buildings, plants and other facilities, at the site.
4. Payment & Performance Bonds.
5. GL & WC Insurance.
6. Submit shop drawings and submittals as shown in **Table 01 33 00A – List of Submittals**.
7. Scheduling of activities.
8. **Material Safety Data Sheets as mentioned in Section 01 35 10.**
9. **Safety and Health Section 01 35 20 – 1.**
10. Personal protective equipment as required for all onsite personnel.
11. Maintain a safe working environment onsite.
12. Record keeping.
13. **Section 01 51 00 Temporary Utilities.**
14. Install temporary electric power for construction or supply generators as required to perform the work as specified.
15. Supply project with temporary water.
16. Furnish and maintain sanitary facilities for the duration of the project.
17. **Section 01 56 10 Protection of Existing Installations.**
18. **Section 01 57 20 Environmental Controls.**
19. Supply copy of applicable Air Quality Permit.
20. Provide dust control and abatement during performance of work.
21. Air pollution control.
22. Provide means for eliminating atmospheric discharges of dust during mixing, handling, and storing of cement, pozzolan, and concrete aggregate.
23. **Section 01 57 30 Water Pollution Control.**
1. Includes RSN 01 57 30-1 Water Management Plan.
2. **Section 01 57 50 Tree and Plant Protection**
3. Preserve and protect trees and other existing conditions.
4. Repair, treatment or replace trees if we damage them.
5. **Section 01 57 60 Protected Species**
6. **Section 01 57 90 Preservation of Historical and Archaeological Data.**
7. **Section 01 60 00 Product Requirements.**
8. **Section 01 64 40 Government-Furnished Products**
9. Includes handling and installing of doors, window, hardware, and minor miscellaneous items of metal and other products. (See Table 01 64 40A – Government Furnished Products.
10. **SECTION 01 74 00 Cleaning and Waste Management**
11. Includes progress cleaning throughout the duration and final clean up as required.
12. Dispose and removal of all hazardous waste as required to offsite dump.
13. **SECTION 01 78 30 Project Record Documents**
14. Maintain up to date and accurate AS-BUILT drawings on-site, color code adds and deletions, and issue you a certified signed set of AS-BUILTS as requested upon completion.
15. **SECTION 03 20 00 – Concrete Reinforcement**
16. Supply and install concrete reinforcement per plans, specs, and CRSI Standards as required.
17. **SECTION 03 30 00 – Cast-In-Place Concrete**
18. Supply Mix Design Submittals as per specs.
19. Supply, form, place, and finish all cast in place concrete shown on structural drawings.
 1. Form, install rebar, and pour foundations as required.
 2. Strip foundations.
20. Form and pour 9.5" Concrete Walls with pilasters as shown in plan.
21. Pointing and patching of tie holes as required.
22. Backfill excavation spoils from foundation work and compact.

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23. Supply and install 6" of compacted gravel fill as specified.
24. Fine grade slabs on grade from compacted sub grade.
- ~~25. Provide soil poisoning below slab on grade only.~~
26. Supply and install slab on grade edge forms, vapor barriers and slab on grade expansion joints including furnishing and installing of "blackboard" expansion joint material (excluding pre-manufactured expansion joint assemblies).
27. Form and pour +/- 7,500 SF of 6" slab on grade within the building footprint and as shown on structural drawings.
28. Provide membrane cure for all horizontal slabs or provide polyethylene film.
29. Saw cut control joints within 24 hours of slab placement.
30. All formwork accessories for included scope.
31. Pumping and dewatering of rainwater only for footing work included in this scope of work. Groundwater dewatering is specifically excluded.
32. Layout for our scope of work. Shipman Builders shall be provided sufficient bench marks, reference points, elevations, and control lines at the outset of the project.
33. Supply ready-mix concrete.
34. Concrete pumping.
35. All formwork accessories for included scope.
36. Includes labor to install anchor bolts and embeds as required to erect the Metal Building.
37. **SECTION 03 30 00 - Non-Shrink Grout for Metalwork**
38. Submit product data for approval and grout base plates as required by specs.
39. **SECTION 08 11 10 - Steel Doors & Frames**
40. Install steel doors and frames as supplied by Government.
41. Supply and install construction sealant as required.
42. **SECTION 08 33 20 - Roll-Up Doors**
43. Install four Government-furnished roll-up doors as specified.
44. **SECTION 08 51 10 - Aluminum Windows**
45. Install one Government-furnished window as specified.
46. **SECTION 08 71 00 - Door Hardware**
47. Install Government-furnished Door Hardware as specified.
48. **SECTION 13 34 20 - Metal Building System**
49. Authorized and or certified erector as required by specifications.
50. Handle and receive delivery of Metal Building onsite as required.
51. Shake out delivery to ensure all parts and pieces have been delivered as shown on bill of lading. Upon delivery if space does not permit a thorough shake down, Shipman Builders shall take pictures of the delivered goods to ensure validity of shipped goods.
52. Upon a fabrication error, detailing error, or left at the shop, Shipman Builders shall communicate these issues as required.
53. Scheduling of deliveries as required.
54. Erect in accordance with approved drawings, Manufacture's erection plans and manual, and MBMA Manual.
55. Install components in correct position and alignment as specified.
56. Welding as required.
57. **EXECUTION**
58. Set frame as follows.
59. Start from the center bay at grid lines 3 and 4 with setting the four columns.
60. Set the four columns, make sure they are plumb and tighten them down.

34655 US Highway 50 * Gunnison, CO 81230
Business - 970-641-6620 * Direct - 970-209-0544

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61. Set the Sidewall Girts on both sides connecting column frames together.
62. Then assemble the Rafter Beams together for lifting them into place as required.
63. Hoist the Rafter Beams in place and bolt off as required.
64. Then in this order set any haunch connections, Eve Struts, the two peak purlins.
65. Then install the intermediate purlins.
66. Install the X-Bracing.
67. After we install the X-Bracing we are ready to move into the next bay, working our way to the outside end walls.
68. Temporary bracing of end walls.
69. Install the base trim to concrete as required.
70. Before sheathing the walls, install the jambs and headers.
71. Pre-drill holes for the sheathing the walls.
72. Create a template by carefully drilling the holes in one sheet, then stack upto 15 sheets clamp them and pre-drill holes in all the sheets.
73. Remove all metal shaving to prevent rusting.
74. Install the insulation and wall panels as required.
75. Install roof insulation and panels as required.
76. Install Trim and Wall Liner on the interior.
77. **SECTION 31 11 00 Clearing and Grubbing**
78. Clearing and grubbing as required.
79. **SECTION 31 23 02 Compacting Earth Materials**
80. Backfill excavation spoils from foundation work and compact.
81. **SECTION 31 23 11 Earthwork for Structures**
82. Building pad prep.
83. Excavation for foundations, and fine grade bottom of foundations
84. **SECTION 31 23 16 Imported Earth Material**
85. Supply and install 6" of compacted gravel fill as specified.
86. **SECTION 31 23 90 Disposal of Excavated Materials**
87. Haul off spoils as required

D. EXCLUSIONS

1. Mechanical, Electrical, and Plumbing Systems.
2. **Hardeners or sealers of any type.**
79. Concrete testing or payment of same unless due to cause or failure of Subcontractor's work.
80. Employee parking area and bussing to and from.
81. Composite cleanup crew.
82. Any work outside the building footprint.

C. SPECIFIC PROVISIONS

1. Shipman Builders shall dispose of all jobsite debris in dumpsters provided by us for removal by us.
2. Shipman Builders shall invoice monthly based on the percent complete to date less 10% retainage, until Shipman Builders reaches 50% completion, at which time no further retention shall be withheld (effective 5% at substantial completion). Retainage shall be

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- due within thirty (30) days of completion of our portion of the work. No retainage shall be withheld on permanent materials.
3. The necessary power (110 volt, with ground fault interruption) will be furnished to us without charge, for the operation of power tools at the site. Water for cleaning tools and equipment at a tap near the building will be furnished to Shipman Builders without charge. Owner shall supply drinking water and sanitary facilities at the working level.
 4. A roadway shall be furnished and maintained (by others), such that trucks have access to, and away from the building under their own power.
 5. This proposal is based on a mutually agreed upon schedule.

D. PRICING-

CONTRACT TOTAL- \$211,098.48

SEE BID SCHEDULE FOR ADDITIONAL INFORMATION ON PRICING

Should you have any questions regarding our scope of work, please give me a call at 786-718-8988. We look forward to the opportunity of working with your team in the successful completion of this project.

Sincerely,

Alexander Fournaris

BID SCHEDULE

BID SCHEDULE A

Item	Section	Work or Material	Quantity and Unit	Unit Price	Amount
1.	WBR 1452.23 2- 81 01 12 71	Mobilization and Preparatory Work	For the	lump sum of	\$ 20,000.00
2.	31 11 00 31 23 1	Earthwork for foundation	730 Cu yd	\$ 12.00	\$ 8,760.00
3.	31 23 11 31 23 16	Compacted crushed gravel base at slab and flatwork	142 Cu yd	\$ 60.94	\$ 8,653.48
4.	03 20 00 03 30 00	Concrete footings, slab, and exterior flatwork	202 Cu yd	\$ 450.00	\$ 90,900.00
5.	13 34 20	Erect Government- furnished 60 ft. x 125 ft. pre- engineered steel bldg	For the	lump sum of	\$ 82,785.00
				Total for Schedule	\$ 211,098.48

BID SCHEDULE

BID SCHEDULE B (ALTERNATE)

Item	Section	Work or Material	Quantity and Unit	Unit Price	Amount
6.	WBR 1452.23 2-81 01 12 71	Mobilization and Preparatory Work	For the	lump sum of	\$ 20,000.00
7.	31 11 00 31 23	Earthwork for foundation	730 Cu yd	\$ 12.00	\$ 8,760.00
8.	31 23 11 31 23 16	Compacted crushed gravel base at slab and flatwork	142 Cu yd	\$ 60.94	\$ 8,653.48
9.	03 20 00 03 30 00	Concrete footings, slab, and exterior flatwork	202 Cu yd	\$ 450.00	\$ 90,900.00
10.	13 34 20	Erect Government- furnished 60 ft. x 125 ft. pre- engineered steel bldg	For the	lump sum of	\$ 82,785.00
11.	13 34 20	Decorative rock wainscot at south and east sides of bldg – Material	495 Sq ft	\$ 32.32	\$ 15,998.40
12.	13 34 20	Decorative rock wainscot at south and east sides of bldg – Labor	240.5 MHRS	\$ 18.18	
				Total for Schedule	\$ 227,096.88

SHIPMAN BUILDERS

BLUE MESA EQUIPMENT BUILDING ERECTION
GUNNISON, COLORADO

Unit Cost Estimate

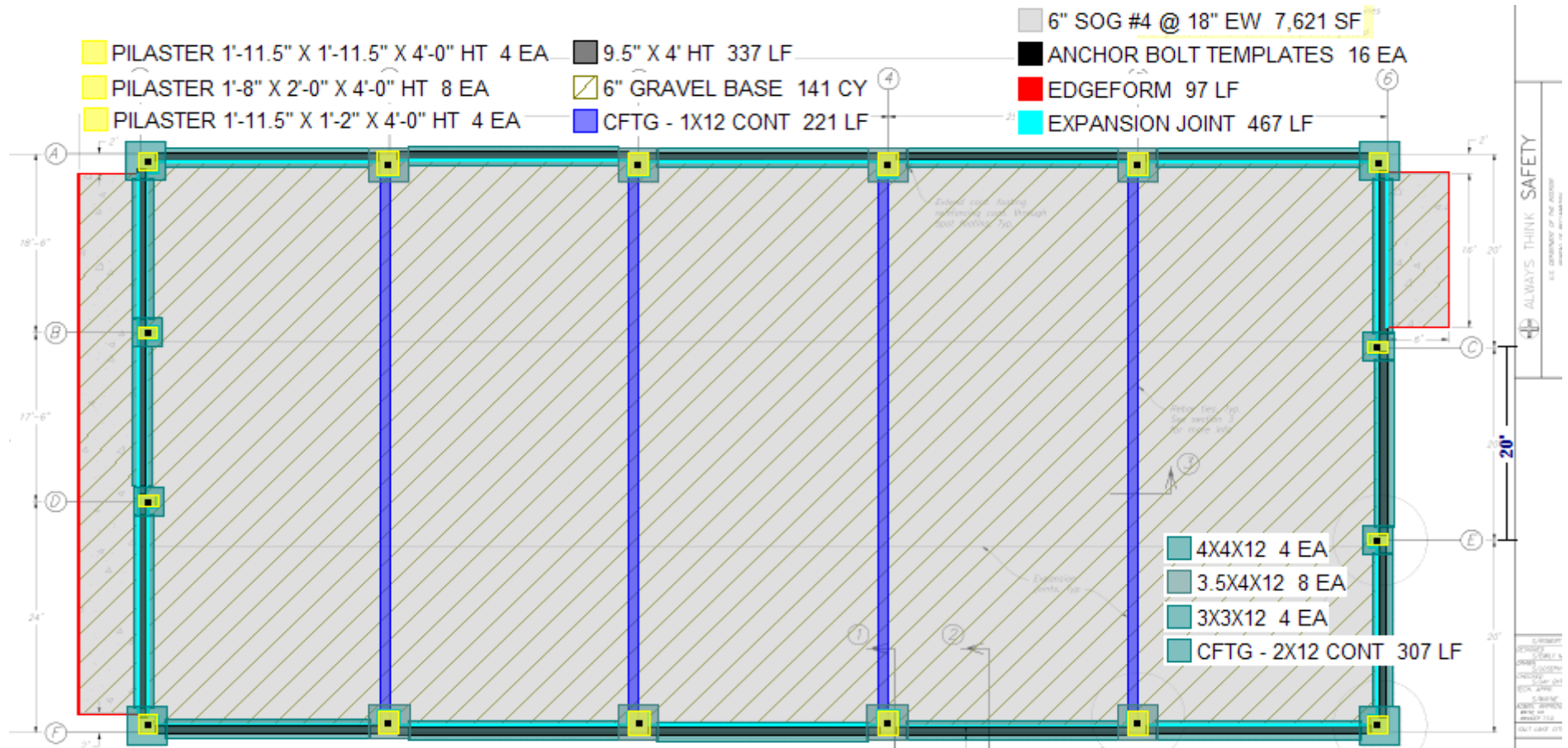
Data Release : Year 2012 Quarter 1

QTY	LINE NO.	DESCRIPTION	HRS	UOM	MATERIAL	LABOR	EQUIPMENT	SUB CONTRT	TOTAL	EXT. MAT.	EXT. LABOR	EXT. EQUIP.	EXT. SUB	EXT. TOTAL	DATA RELEASE	ZIP CODE	NOTES
10		SUPERVISION	400	WKS	\$ -	\$ 1,000.00	\$ -	\$ -	\$ 1,000.00	\$ -	\$ 10,000.00	\$ -	\$ -	\$ 10,000.00		814	
2	015213200890	Modular office building, delivery, each way	0	Ea.	\$ -	\$ -	\$ -	\$ 212.80	\$ 212.80	\$ -	\$ -	\$ -	\$ 425.60	\$ 425.60	Year 2012 Quarter 1	815	
3	015213201250	Storage Boxes, rent per month, 20' x 8'	0	Ea.	\$ -	\$ -	\$ -	\$ 75.00	\$ 75.00	\$ -	\$ -	\$ -	\$ 225.00	\$ 225.00	Year 2012 Quarter 1	815	
10		GENERATOR / TEMPORARY POWER			\$ 75.00		\$ 55.00		\$ 130.00	\$ 813.75	\$ -	\$ 596.75	\$ -	\$ 1,410.50			
10		CLEANING AND WASTE MANAGEMENT - DUMPSTER						\$ 250.00	\$ 250.00	\$ -	\$ -	\$ -	\$ 2,500.00	\$ 2,500.00			
20	017413200050	Cleaning up, cleanup of floor area, continuous, per day, during construction	15	M.S.F.	\$ 1.86	\$ 21.12	\$ 2.15	\$ -	\$ 25.13	\$ 40.36	\$ 422.40	\$ 46.66	\$ -	\$ 509.42	Year 2012 Quarter 1	815	
10	017413200100	Cleaning up, cleanup of floor area, final by GC at end of job	15.65	M.S.F.	\$ 2.96	\$ 43.84	\$ 4.49	\$ -	\$ 51.29	\$ 32.12	\$ 438.40	\$ 48.72	\$ -	\$ 519.23	Year 2012 Quarter 1	815	
10		Sanitary fac (1/15 workers) each		WKS				\$ 55.00	\$ 55.00	\$ -	\$ -	\$ -	\$ 550.00	\$ 550.00			
1		WATER POLLUTION MANAGEMENT		LS				\$ 2,500.00	\$ 2,500.00	\$ -	\$ -	\$ -	\$ 2,500.00	\$ 2,500.00			
1		ENVIRONMENTAL CONTROLS ALLOWANCE		LS				\$ 3,500.00	\$ 3,500.00	\$ -	\$ -	\$ -	\$ 3,500.00	\$ 3,500.00			
2	015419500300	Crane crew, daily use for small jobs, 40-ton truck-mounted hydraulic crane, portal to portal	16	Day	\$ 75.00	\$ -	\$ -	\$ 1,500.00	\$ 1,575.00	\$ 162.75	\$ -	\$ -	\$ 3,000.00	\$ 3,162.75	Year 2012 Quarter 1	815	
10	015416500100	Forklift crew, all-terrain forklift, 45' lift, 35' reach, 9000 lb. capacity, weekly use	400	Week	\$ 75.00	\$ 350.00	\$ 500.00		\$ 925.00	\$ 813.75	\$ 3,500.00	\$ 5,425.00	\$ -	\$ 9,738.75	Year 2012 Quarter 1	815	
2	015436502000	Mobilization or demobilization, crane, truck-mounted, up to 75 ton, (driver only, one-way)	2.222	Ea.	\$ -	\$ -	\$ -	\$ 200.00	\$ 200.00	\$ -	\$ -	\$ -	\$ 400.00	\$ 400.00	Year 2012 Quarter 1	815	
4	015436501150	Mobilization or demobilization, delivery charge for equipment, on flatbed trailer behind pickup truck	8	Ea.	\$ -	\$ -	\$ -	\$ 115.00	\$ 115.00	\$ -	\$ -	\$ -	\$ 460.00	\$ 460.00	Year 2012 Quarter 1	815	
10		MISC. SMALL TOOLS			\$ -	\$ -	\$ 150.00	\$ -	\$ 150.00	\$ -	\$ -	\$ 1,627.50	\$ -	\$ 1,627.50			
10		MISC. EQUIPMENT ALLOWANCE			\$ -	\$ -	\$ 350.00	\$ -	\$ 350.00	\$ -	\$ -	\$ 3,797.50	\$ -	\$ 3,797.50			
8	033053400900	Structural concrete, in place, PEDESTALS (4000 psi), square, min reinforcing, 24" x 24", includes forms(4 uses), reinforcing steel, concrete, placing and finishing	67.624	C.Y.	\$ 250.87	\$ 303.00	\$ 30.84		\$ 584.71	\$ 2,177.55	\$ 2,424.00	\$ 267.69	\$ -	\$ 4,869.24	Year 2012 Quarter 1	815	
1	033053400800	Structural concrete, in place, PEDESTALS (4000 psi), square, min reinforcing, 16" x 16", includes forms(4 uses), reinforcing steel, concrete, placing and finishing	12.33	C.Y.	\$ 297.56	\$ 440.36	\$ 45.03		\$ 782.95	\$ 322.85	\$ 440.36	\$ 48.86	\$ -	\$ 812.07	Year 2012 Quarter 1	815	
23	033053403940	Structural concrete, in place, continuous strip footing CFTG - 24" X 12" deep, reinforced, includes forms, reinforcing steel, concrete, placing and finishing	53.659	C.Y.	\$ 147.70	\$ 79.59	\$ 0.55		\$ 227.84	\$ 3,685.85	\$ 1,830.57	\$ 13.73	\$ -	\$ 5,530.15	Year 2012 Quarter 1	815	
8	033053403920	Structural concrete, in place, continuous strip footing CFTG - 12" X 12" deep, reinforced, includes forms, reinforcing steel, concrete, placing and finishing	25.6	C.Y.	\$ 157.47	\$ 109.08	\$ 0.75		\$ 267.30	\$ 1,366.84	\$ 872.64	\$ 6.51	\$ -	\$ 2,245.99	Year 2012 Quarter 1	815	
7.7	033053403800	Structural concrete, in place, spread footing (3000 psi), under 1 C.Y., includes forms, reinforcing steel, concrete, placing and finishing	30.8	C.Y.	\$ 180.28	\$ 136.55	\$ 0.94		\$ 317.77	\$ 1,506.15	\$ 1,051.44	\$ 7.85	\$ -	\$ 2,565.44	Year 2012 Quarter 1	815	
40	033053404200	CIP WALL 9.5" X 4' HT	174.56	C.Y.	\$ 179.19	\$ 155.14	\$ 65.00		\$ 399.33	\$ 7,776.85	\$ 6,205.60	\$ 2,821.00	\$ -	\$ 16,803.45	Year 2012 Quarter 1	815	
94	033053404700	Structural concrete, in place, slab on grade (3500 psi), 6" thick, includes forms(4 uses), reinforcing steel, concrete and placing, excludes finishing	89.958	C.Y.	\$ 123.80	\$ 33.53	\$ 0.29		\$ 157.62	\$ 12,626.36	\$ 3,151.82	\$ 29.58	\$ -	\$ 15,807.76	Year 2012 Quarter 1	815	

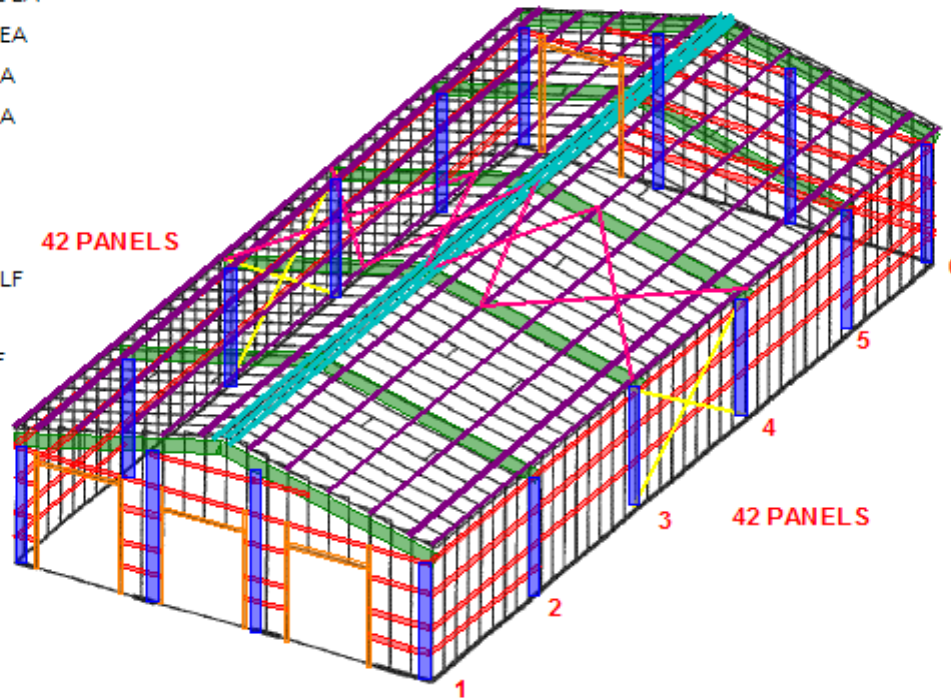
QTY	LINE NO.	DESCRIPTION	HRS	UOM	MATERIAL	LABOR	EQUIPMENT	SUB CONTR	TOTAL	EXT. MAT.	EXT. LABOR	EXT. EQUIP.	EXT. SUB	EXT. TOTAL	DATA RELEASE	ZIP CODE	NOTES
97	033053404720	Structural concrete, in place, thickened edge for slab on grade (3500 psi), depth is in addition to slab thickness, poured monolithically with slab, 12" wide x 12" deep, reinforced, includes forms (4 uses), reinforcing, concrete and placing	8.342	L.F.	\$ 11.67	\$ 2.92	\$ 0.02		\$ 14.61	\$ 1,228.21	\$ 283.24	\$ 2.10	\$ -	\$ 1,513.55	Year 2012 Quarter 1	815	
7600	033529300300	Concrete finishing, floors, for specified Overall Floor Flatness & Levelness value up to F35/F25, power screed, bull float, machine float & steel trowel (walk-behind), excludes placement	76	S.F.	\$ -	\$ 0.32	\$ 0.05		\$ 0.37	\$ -	\$ 2,432.00	\$ 412.30	\$ -	\$ 2,844.30	Year 2012 Quarter 1	815	
600	033529350140	Control joint, concrete floor slab, sawcut in green concrete, 1-1/2" depth	5.4	L.F.	\$ 0.05	\$ 0.31	\$ 0.08		\$ 0.44	\$ 32.55	\$ 186.00	\$ 52.08	\$ -	\$ 270.63	Year 2012 Quarter 1	815	
76	033923230200	Curing, burlap/poly blanket, 2 ply	17.404	C.S.F.	\$ 18.57	\$ 6.46	\$ -		\$ 25.03	\$ 1,531.28	\$ 490.96	\$ -	\$ -	\$ 2,022.24	Year 2012 Quarter 1	815	
3	015433102140	Rent pump concrete truck mounted 5" line 110' boom, Incl. Hourly Oper. Cost.	0	Day	\$ -	\$ -	\$ 1,369.05		\$ 1,369.05	\$ -	\$ -	\$ 4,456.26	\$ -	\$ 4,456.26	Year 2012 Quarter 1	815	
833	312216101100	Fine grading, fine grade for slab on grade, machine	12.5	S.Y.	\$ -	\$ 0.62	\$ 0.58		\$ 1.20	\$ -	\$ 516.67	\$ 524.42	\$ -	\$ 1,041.08	Year 2012 Quarter 1	815	
730	312316130090	Excavating, trench or continuous footing, common earth, 1/2 C.Y. excavator, 4' to 6' deep, excludes sheeting or dewatering	58.4	B.C.Y.	\$ -	\$ 3.23	\$ 1.78		\$ 5.01	\$ -	\$ 2,357.90	\$ 1,409.85	\$ -	\$ 3,767.75	Year 2012 Quarter 1	815	
16		FOUNDATION ANCHOR BOLTS			\$ 10.00	\$ 25.00			\$ 35.00	\$ 173.60	\$ 400.00	\$ -	\$ -	\$ 573.60			
7300	133419502400	Pre-Eng Steel Bldg, clear span tapered beam frame, 30 psf roof and 20 psf wing load, 50' to 79' W x 20' eave H, incl. 26 ga. colored ribbed roofing & siding, excl. footings, slab, anchor bolts	832.2	SF Fir.		\$ 5.15	\$ 0.50		\$ 5.65	\$ -	\$ 37,595.00	\$ 3,960.25	\$ -	\$ 41,555.25	Year 2012 Quarter 1	815	
1	133419505850	Pre-Eng Steel Bldg Access., doors, H.M. self framing, single leaf, economy, 3' 6" x 7', incl. butts, lockset & trim	4	Opng.		\$ 184.59	\$ -		\$ 184.59	\$ -	\$ 184.59	\$ -	\$ -	\$ 184.59	Year 2012 Quarter 1	815	
1	133419506200	Pre-Eng Steel Bldg Access., framing only, for windows below, 4' x 3', (4030)	3.2	Opng.		\$ 148.05	\$ -		\$ 148.05	\$ -	\$ 148.05	\$ -	\$ -	\$ 148.05	Year 2012 Quarter 1	815	
4	083323100500	Doors, rolling service, steel, manual, 20 gauge, 14' x 14' high, incl. hardware	80	Ea.		\$ 832.33	\$ -		\$ 832.33	\$ -	\$ 3,329.32	\$ -	\$ -	\$ 3,329.32	Year 2012 Quarter 1	815	
2500	079213203500	Joint sealants, caulking and sealants, polyurethane, bulk, in place, 1 or 2 component, 1/4" x 1/4"	67.5	L.F.	\$ 0.18	\$ 0.84	\$ -		\$ 1.02	\$ 488.25	\$ 2,100.00	\$ -	\$ -	\$ 2,588.25	Year 2012 Quarter 1	815	
1	0851101.01	HANDLING / STORING	0		\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Year 2012 Quarter 1		
14000	133419506900	Pre-Eng Steel Bldg Access., insulation, vinyl faced, rated .6 lb density, R13, 4" thick	98	S.F.		\$ 0.29	\$ -		\$ 0.29	\$ -	\$ 4,060.00	\$ -	\$ -	\$ 4,060.00	Year 2012 Quarter 1	815	
2557	053133506200	WALL LINER	51.14	S.F.		\$ 0.80	\$ 0.03		\$ 0.83	\$ -	\$ 2,045.60	\$ 83.23	\$ -	\$ 2,128.83	Year 2012 Quarter 1	815	
0.5	311110100160	Clearing & grubbing, brush, including stumps	20.6895	Acre	\$ -	\$ 1,595.75	\$ 3,597.83		\$ 5,193.58	\$ -	\$ 797.88	\$ 1,951.82	\$ -	\$ 2,749.70	Year 2012 Quarter 1	815	
7500	312323170600	Fill, gravel fill, compacted, under floor slabs, 6" deep	45	S.F.	\$ 0.85	\$ 0.21	\$ 0.02		\$ 1.08	\$ 6,916.88	\$ 1,575.00	\$ 162.75	\$ -	\$ 8,654.63	Year 2012 Quarter 1	815	

TOTAL MAN HOURS 2691
\$ 107,647.14
AVG. CREW RATE IS \$40.00 / HR WITH BURDEN

TOTAL COST					\$ 171,848.37
20% LABOR BURDEN			\$ 17,767.89		
SUBTOTAL		\$ 41,695.95	\$ 106,607.31	\$ 27,752.40	\$ 189,616.26
OVERHEAD		3%	3%	3%	3%
		\$ 1,250.88	\$ 3,198.22	\$ 832.57	\$ 406.82
SUBTOTAL		\$ 42,946.83	\$ 109,805.53	\$ 28,584.97	\$ 195,304.75
FEE SCHEDULE		7%	\$ 208,976.08	\$ 13,671.33	
		8.5%	\$ 211,905.65	\$ 16,600.90	
		9%	\$ 212,882.17	\$ 17,577.43	
		10%	\$ 214,835.22	\$ 19,530.47	



- RIDGE BEAM 1 386 LF
- COLUMNS 17'-06" 12 EA
- COLUMNS 24'-00" 1 EA
- COLUMNS 22'-7" 1 EA
- COLUMNS 23'-0" 2 EA
- SW GIRTS 1,034 LF
- X-BRACING 102 LF
- PURLINS 1,145 LF
- RIDGE PURLINS 289 LF
- X-BRACING 210 LF
- JAMBS/HDRS 191 LF



NOTE : DRAWING NOT TO SCALE - LF QUANTITY ERROR

RETI FR MANUFACTURING 1540 GENESEE ST KANSAS CITY MO 64109

PRE-TENSION A325 BOLTS IF LOCATED
 DESIGN CATEGORY D, E OR F, SEE CO

PRE-TENSION ANY CONNECTION WITH DI
 OIL OR OTHER MATERIALS THAT REDUCE
 ARE ACCEPTABLE.

IN CANADA ALL A325 AND A490 BOLTS
 BRACES.

SECONDARY MEMBERS AND FLANGE BRACE <
 ERECTION DRAWING DETAILS.

CODES AND LOADS

WHEN MULTIPLE BUILDINGS ARE INVOLVED, 3
 HEIGHTS, FRAMING SYSTEMS, ROOF SLOPES,
 INDICATED BELOW. SEE CALCULATIONS FOR
 COMMON WALLS BETWEEN CONNECTED SHAPE

Building Code: 2009 International Building Code
 EQUIPMENT BUILDING: Building Use/Standard Occupancy
 USE LOADS AND RAINFALL

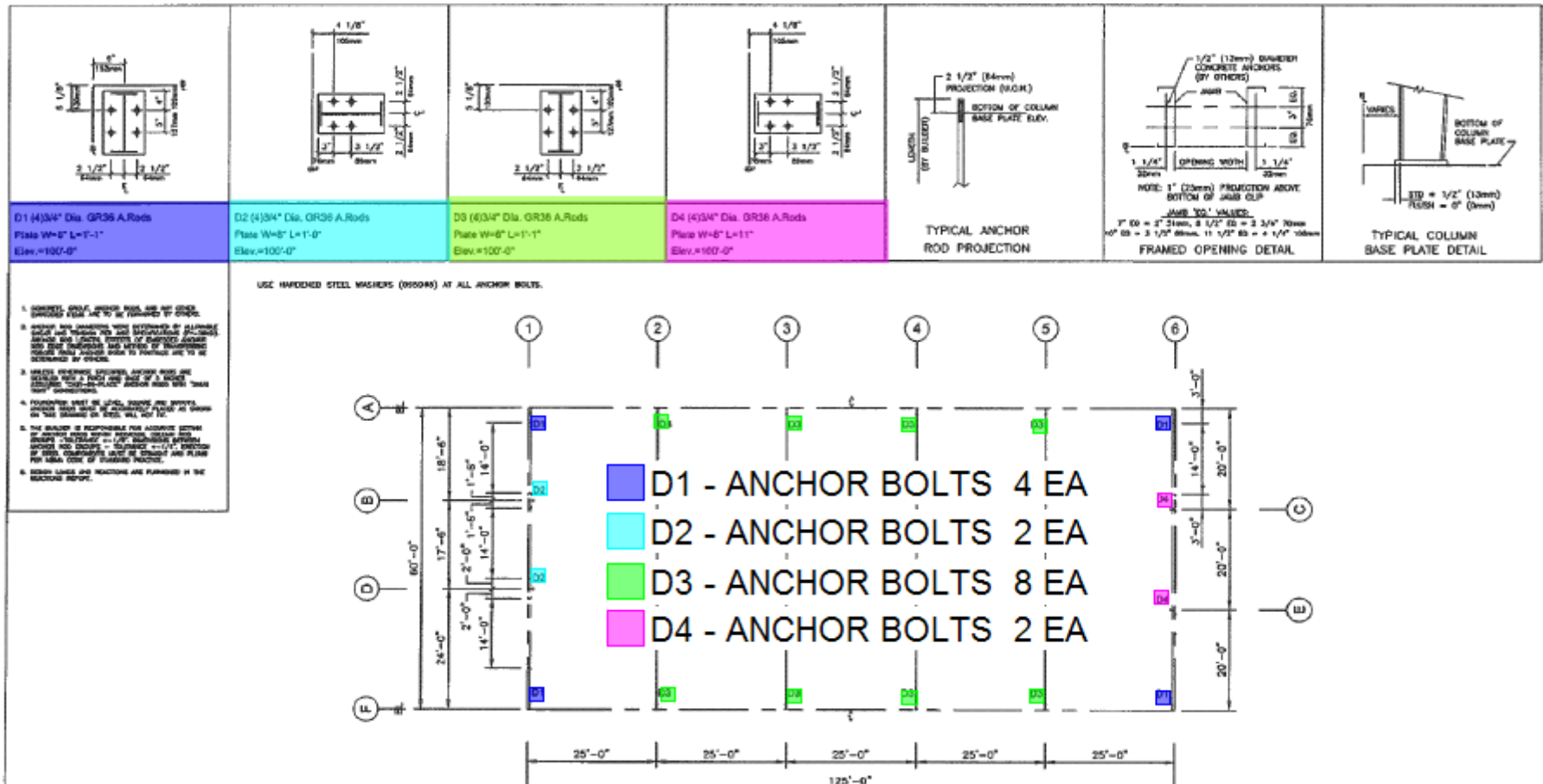
Use Load: 20.00 psf (Roof Deck)
 Rainfall: 5.00 inches per hour
 CONCRETE FOUNDATIONS Compressive Strength (ksi):

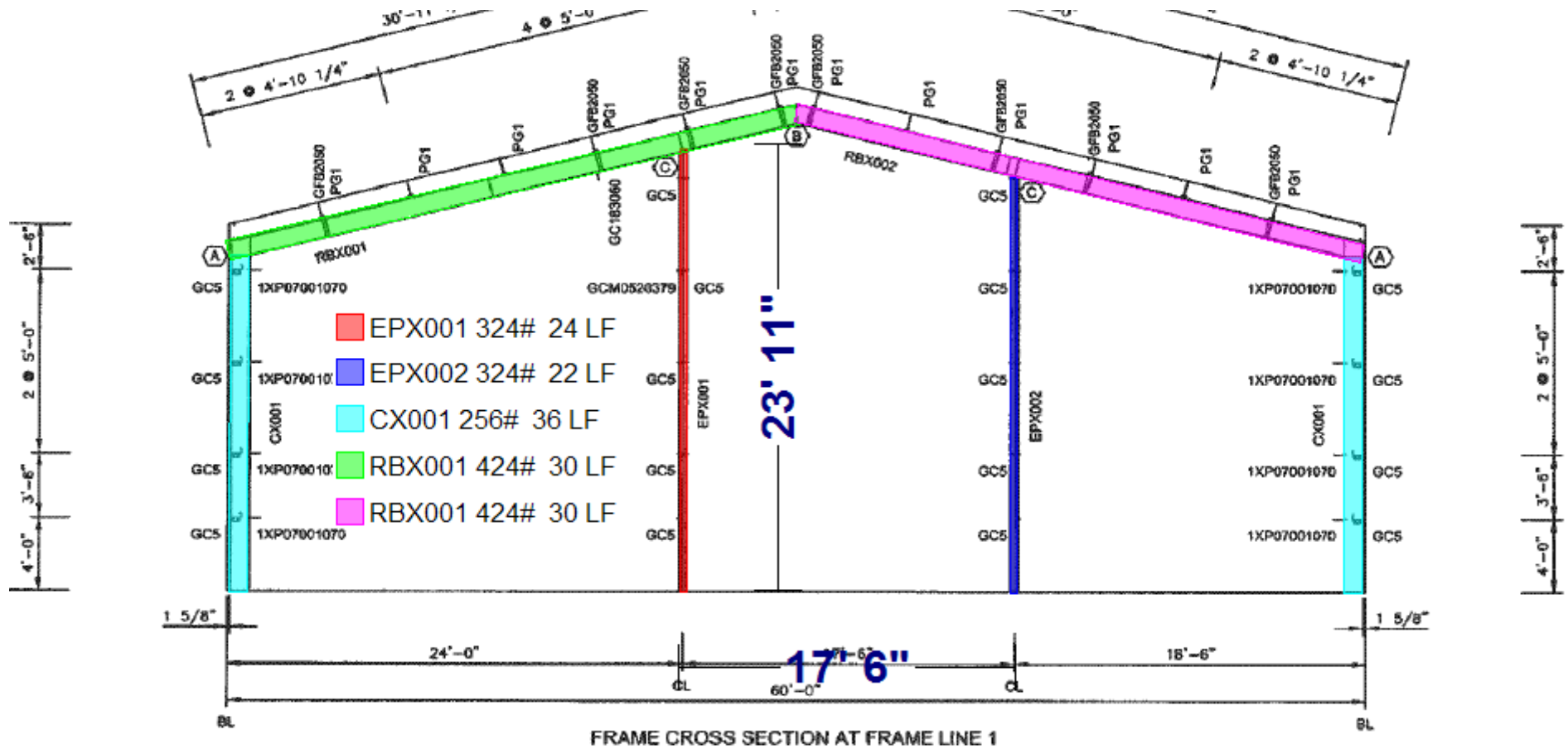
SNOW LOAD
 Ground Snow: 57.00 psf, Flat Roof Snow: 40.00 psf
 Snow Exposure Category (Factor): 2 Partially Exposed
 Snow Importance: 1.000 Thermal Delay (Factor): 1

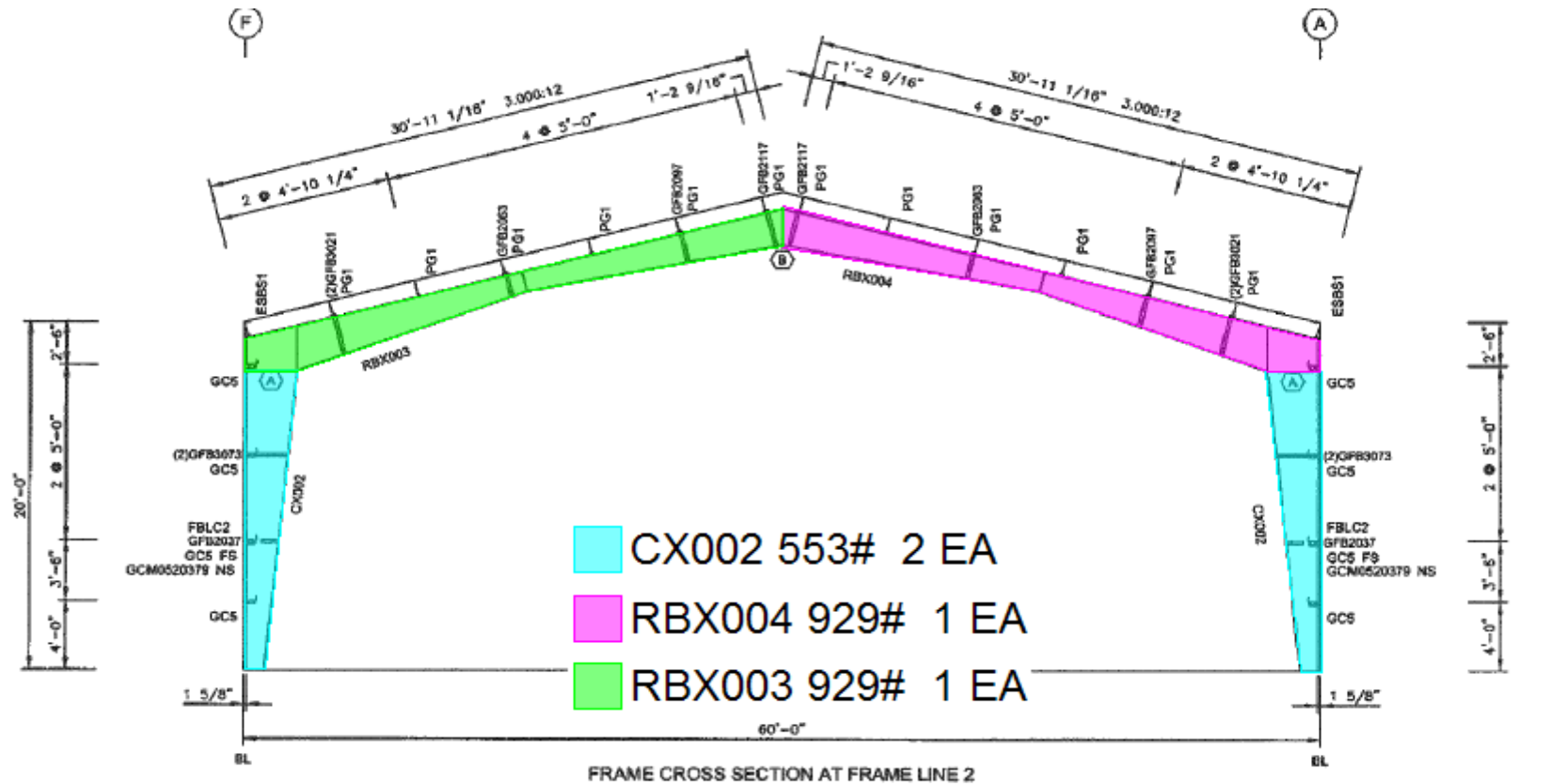
WIND LOAD
 The "Low Risk" Method is Used
 Wind Speed: 80.00 mph, Wind Exposure: C
 Basic Wind Pressure: 15.48 psf
 Wind Importance Factor: 1.000, IT= Topographic Factor
 Wind Exposure: Unobstructed, 0.180
 Note: All windows, doors, skylights and other covered
 must be designed for the specified above wind load

EARTHQUAKE DESIGN DATA
 Lateral Force Resisting Systems using Equivalent Force
 Mapped Spectral Response = 0.4379 kg, 0.1970 kg
 Seismic Performance / Design Category: C (See 1601
 Seismic Snow Load: 7.58 psf
 Seismic Importance: 1.000
 Soil Profile Type: SM (B, 4)
 Design Spectral Response = 0.4225, Sd1: 0.150

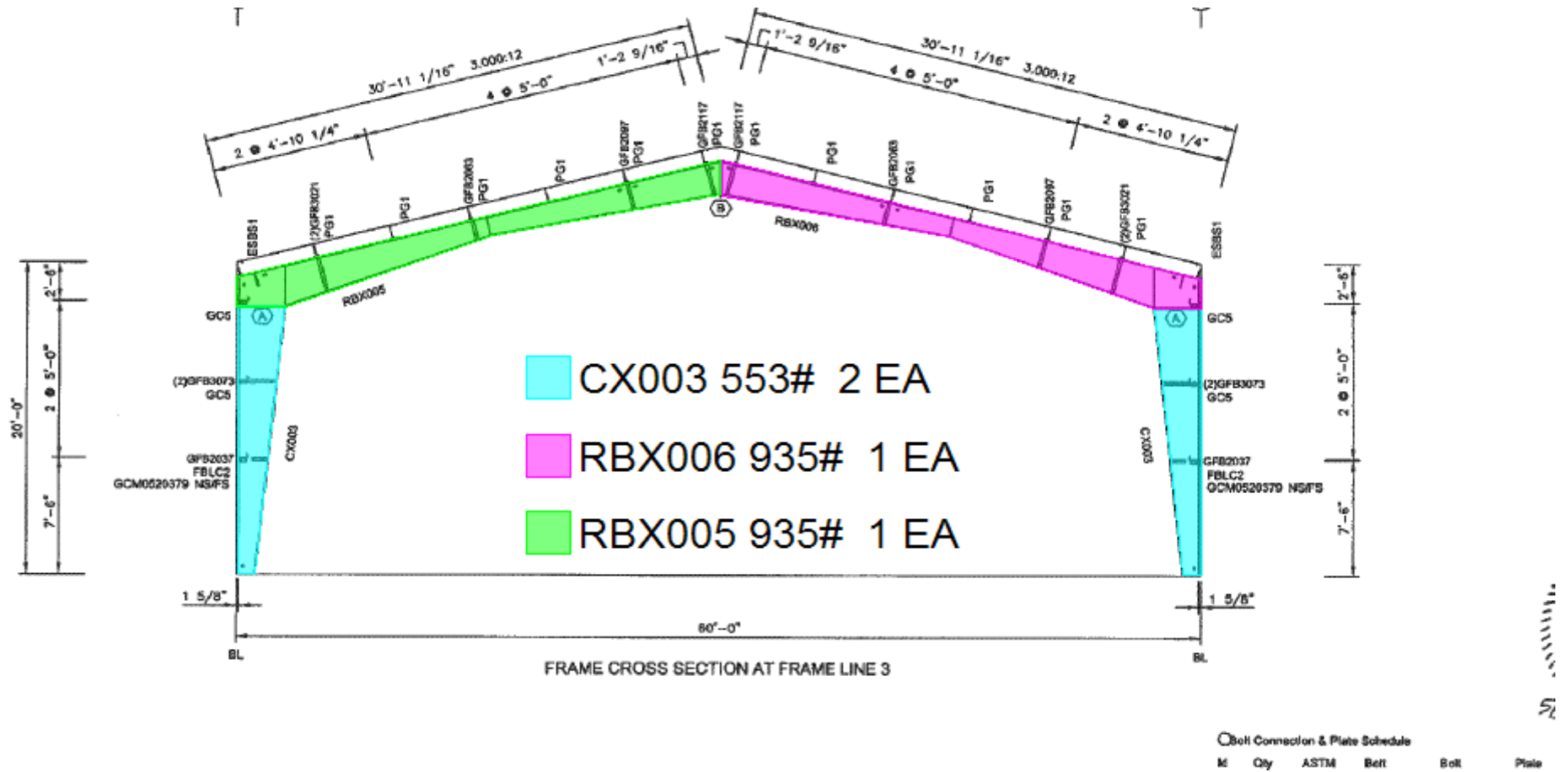
Ordinary Steel Moment Frames
 Frame Redundancy Factor: 1.0000
 Framing R-Factor: 1.0000, Frame Seismic Factor
 Ordinary Steel Concentric Braced Frames
 Bracing Redundancy Factor: 1.0000
 Bracing R-Factor: 1.0000, Bracing Seismic Factor

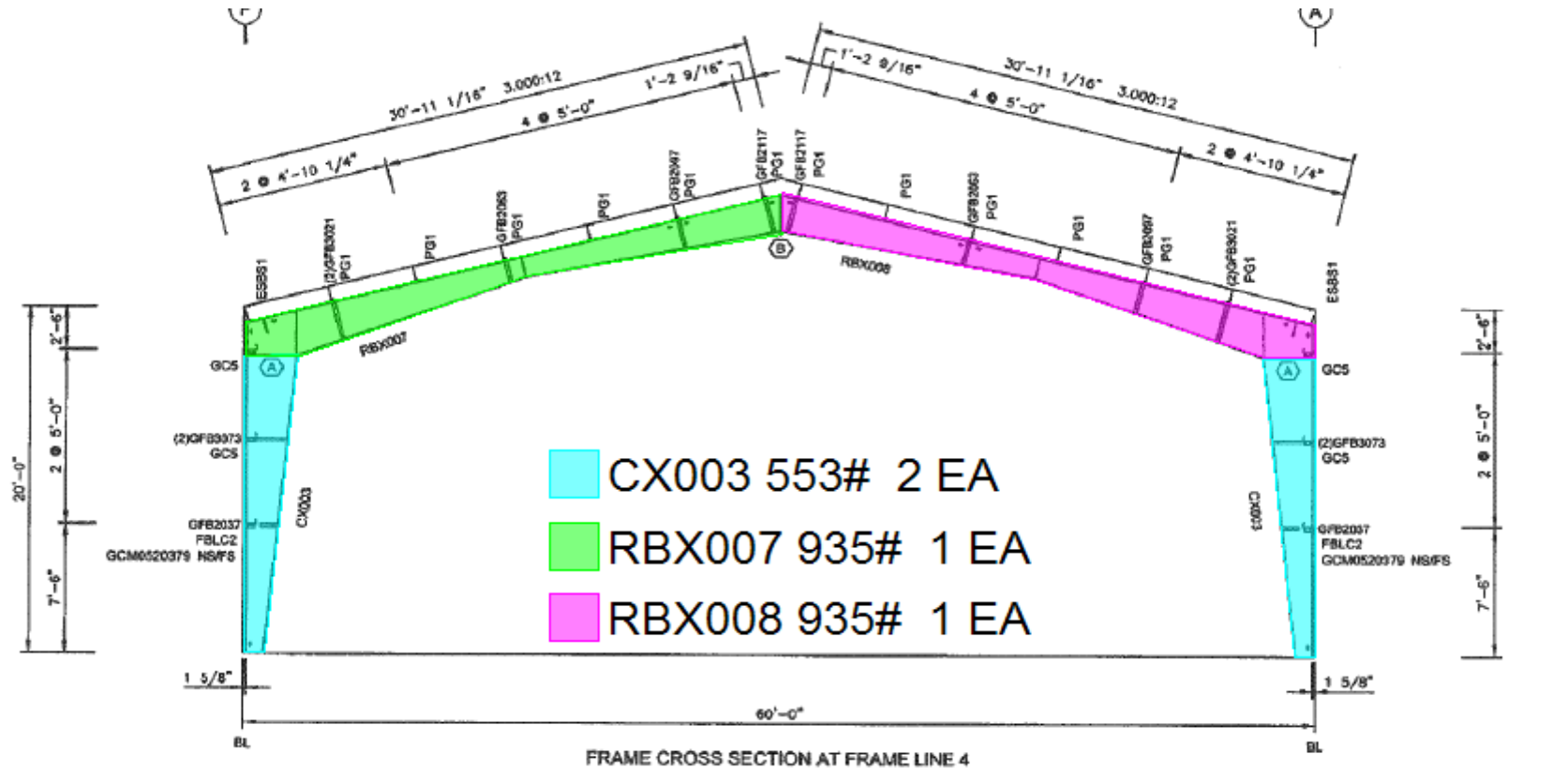




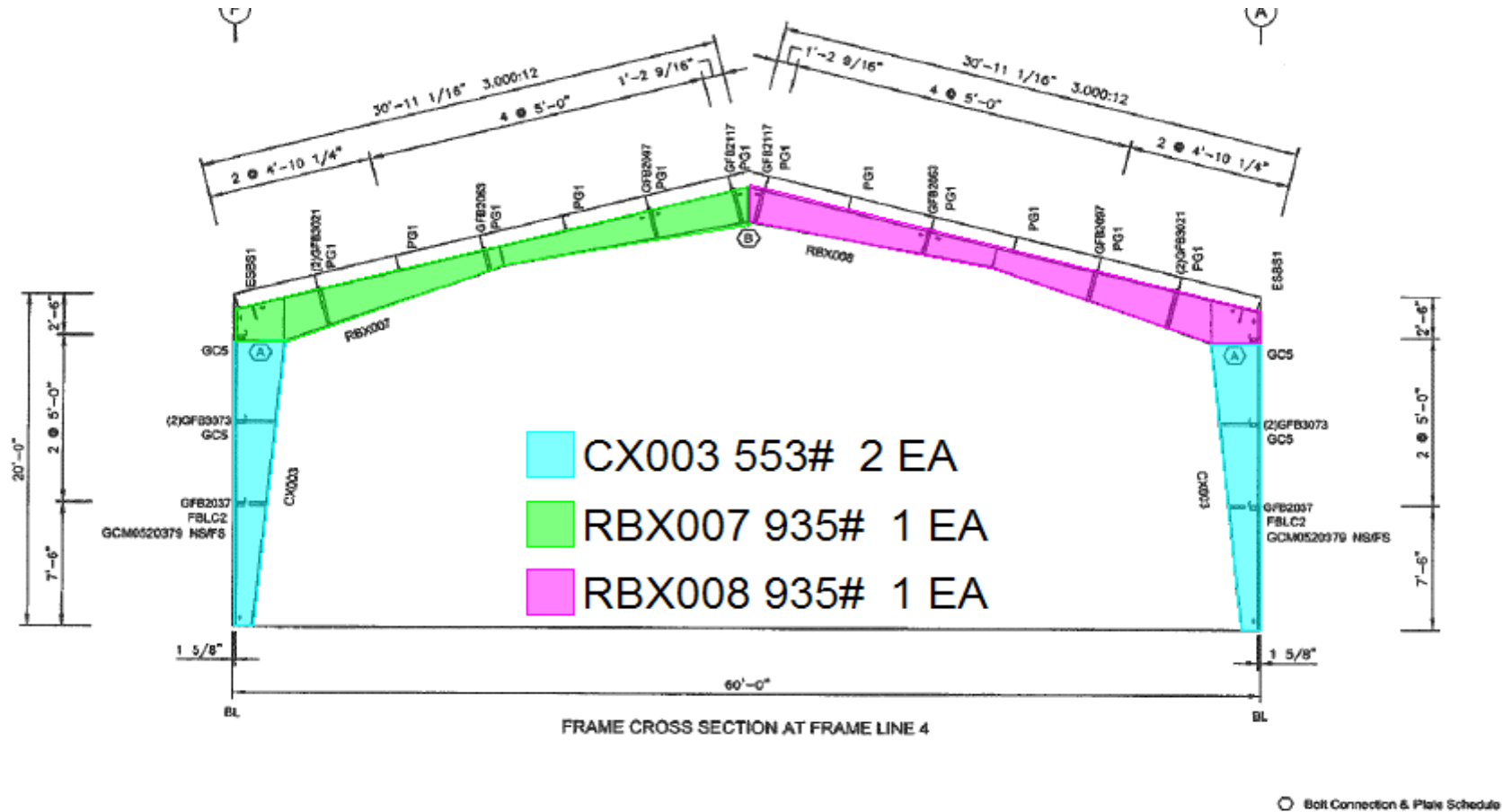


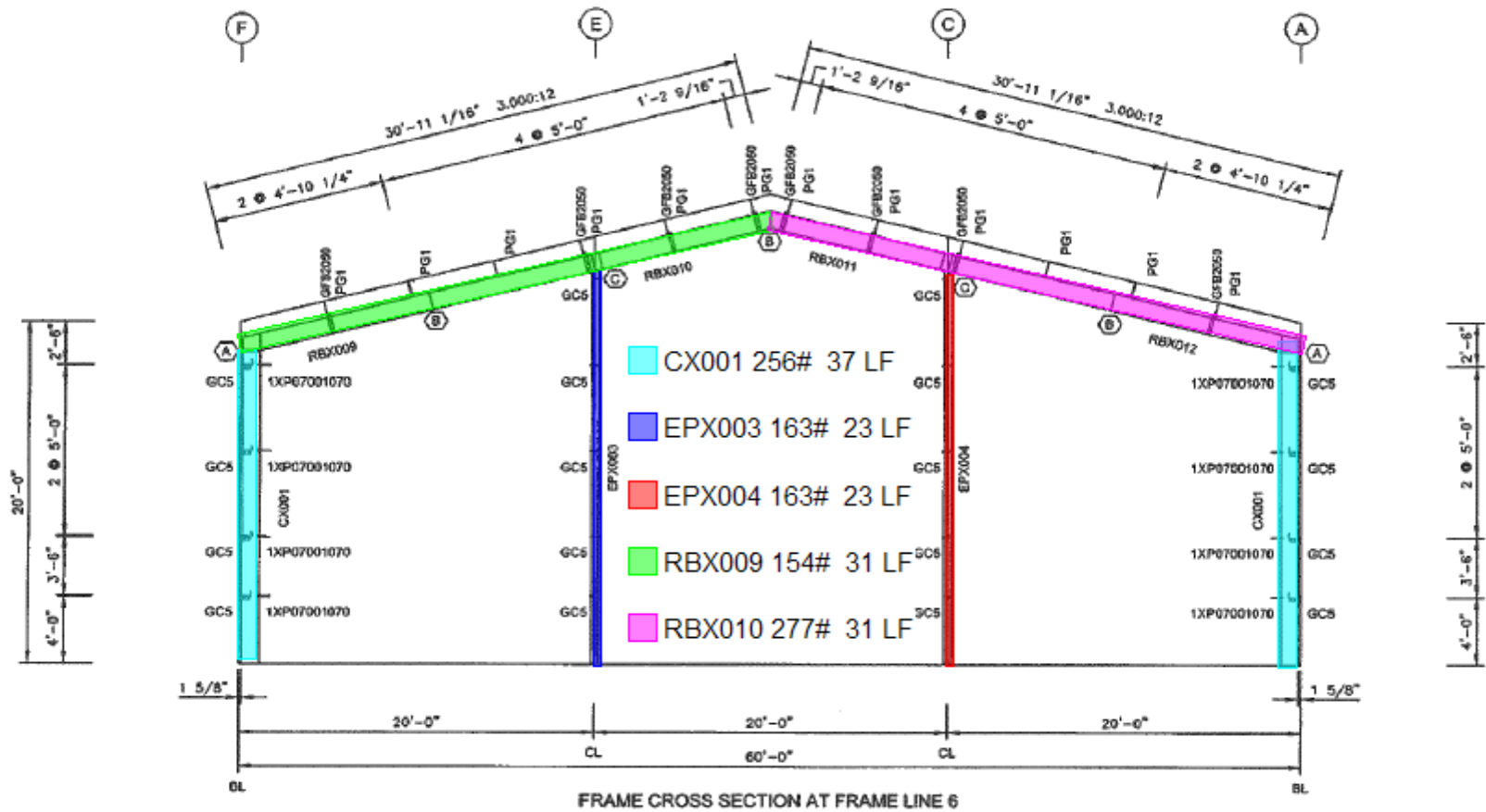
⊙ Bolt Connection & Plate Schedule

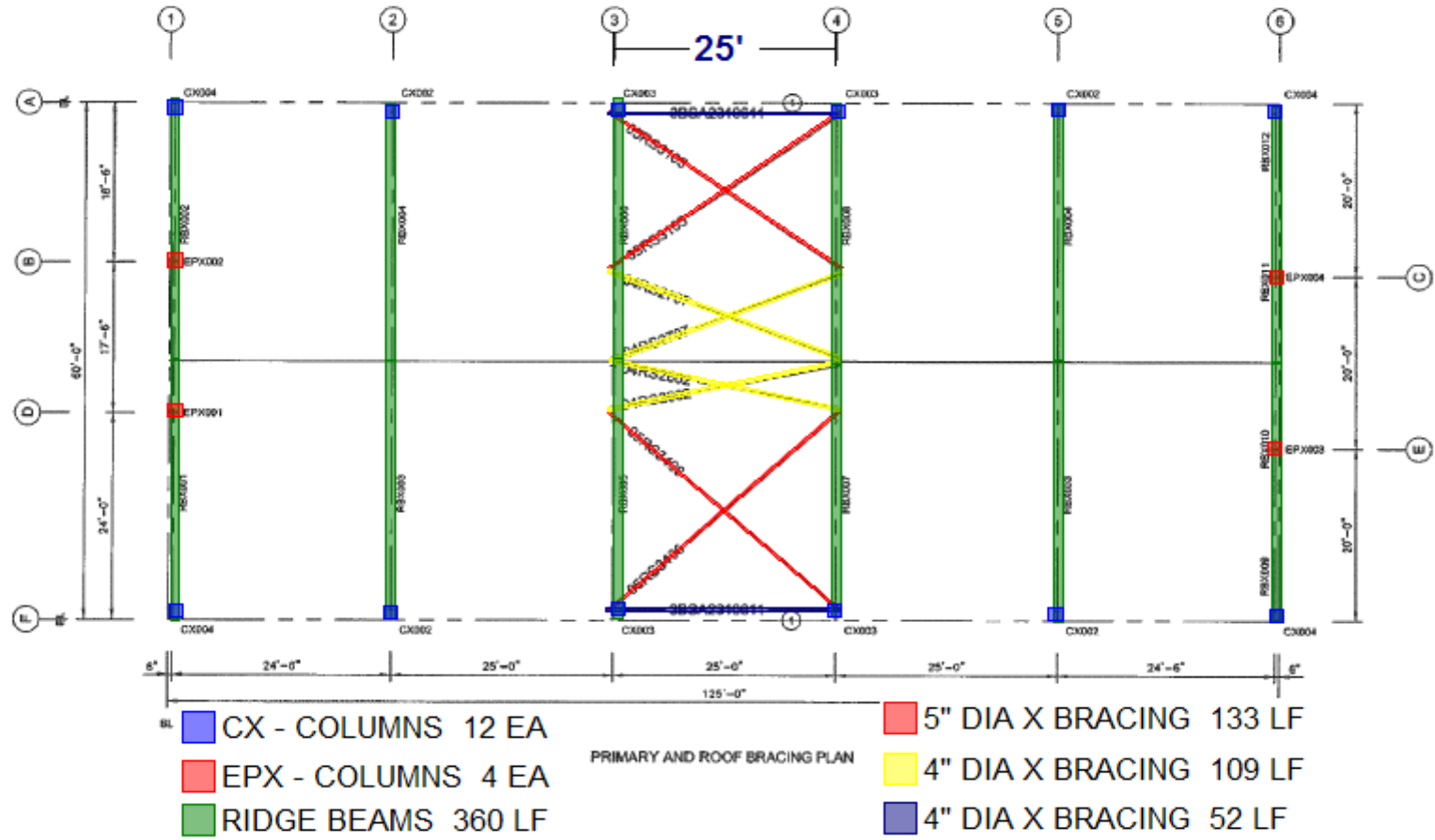




○ Bolt Connection & Plate Schedule



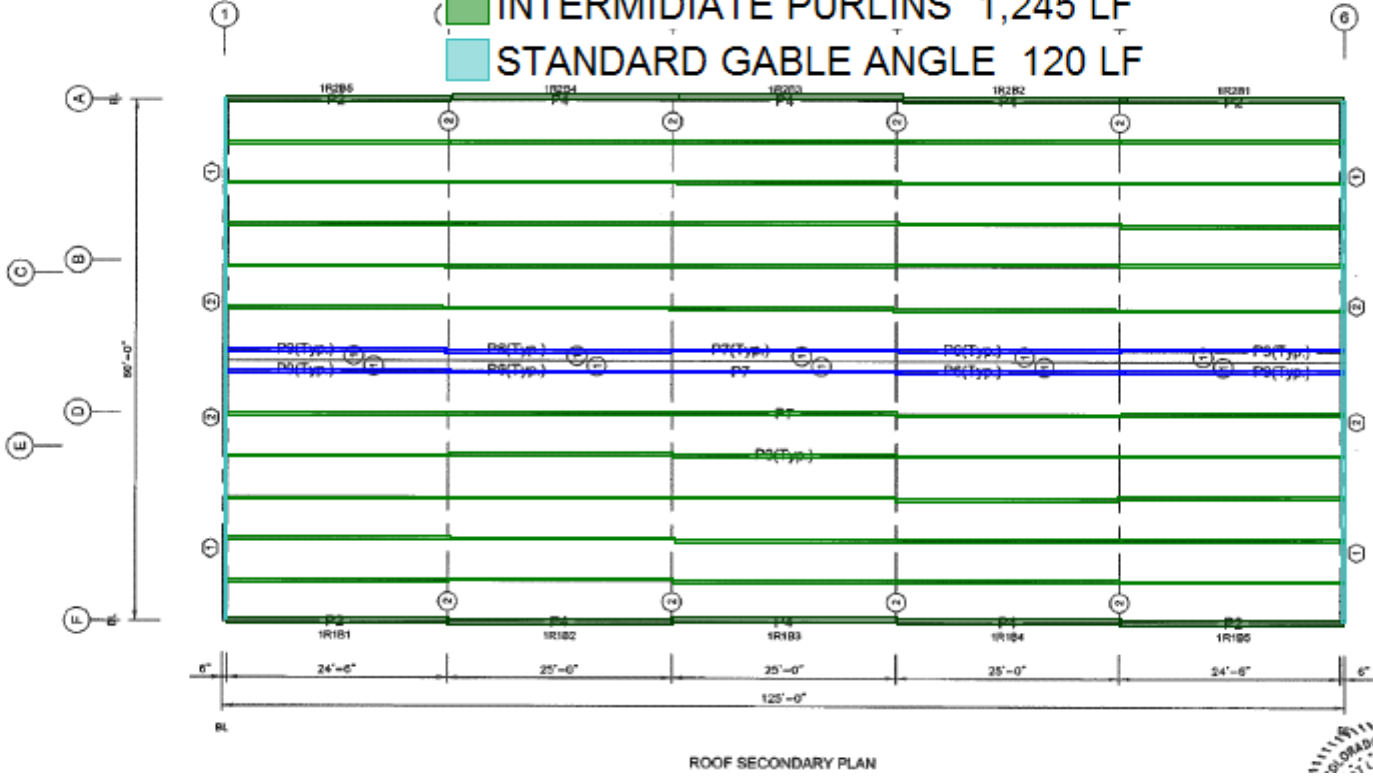




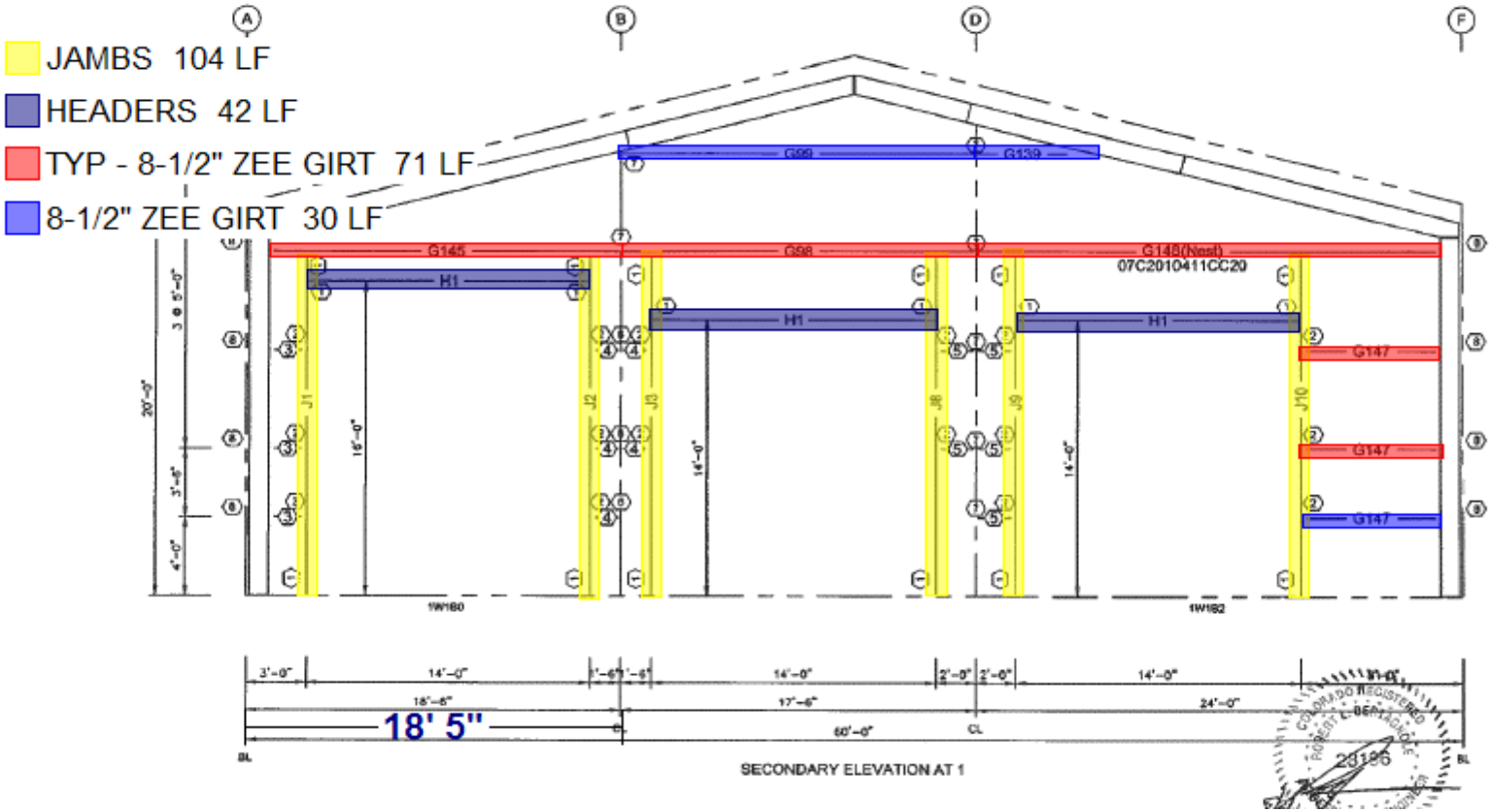
112281141833A2	0.0680	11 1/2"	1'-10 1/2"	R501U1
118281141833B23	0.0680	11 1/2"		R512PA, R512PJ
112321141833A2	0.0680	11 1/2"	3'-10 1/2"	R501U1
112281141833A2	0.0720	11 1/2"	1'-10 1/2"	R501U1
112281141833A3	0.0680	11 1/2"	2'-10 1/2"	R502T1, R501U1

- RIDGE PURLINS 252 LF
- EVE STRUTS 250 LF
- INTERMEDIATE PURLINS 1,245 LF
- STANDARD GABLE ANGLE 120 LF

rl Mark Key		
15GA17020		
15GA13086		
rl Brace Schedule		
Qty	Mark No	Spacing
10	CPBRD010602(Typ)	1'-2 9/16"



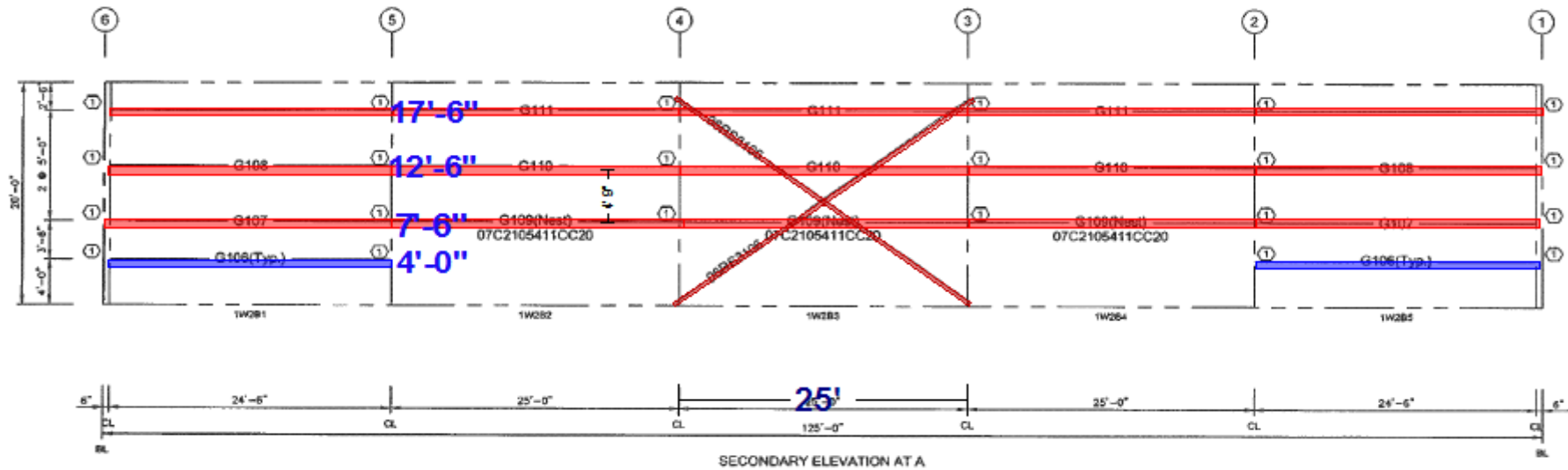
17EG10	0.0600	8 1/2"	WS01R2.WS20F2
14EE12	0.0790	8 1/2"	WS01R2
17EE12	0.0600	8 1/2"	WS01R2



Secondary Part Schedule

Mark	Part	Thick.	Depth	Detail
G106	0622403414EE12	0.0730	8 1/2"	WS01R2
G107	0622403413EE12	0.0680	8 1/2"	WS01R2, WS01BY
G108	0622403412EE12	0.0680	8 1/2"	WS01R2
G109	0622409410EE12	0.0730	8 1/2"	WS01BY, WS01BX
G110	0622409411EE12	0.0680	8 1/2"	WS01R2
G111	0622409414EE12	0.0790	8 1/2"	WS01R2

- TYP - 8-1/2" ZEE GIRT 373 LF
- 8-1/2" ZEE GIRT 49 LF
- 6"DIA - X-BRACE 31.5' 63 LF



G90	06Z1900413DE12	0.0890	8 1/2"	WS01R2
G92	06Z1900413DE12	0.0730	8 1/2"	WS01R2
G93	06Z0207417EG10	0.0900	8 1/2"	WS20F2, WS01R2
H1	00300JS1400017	0.090		
J1	00100JS1702216	0.090		

■ TYP - 8-1/2" ZEE GIRT 141 LF

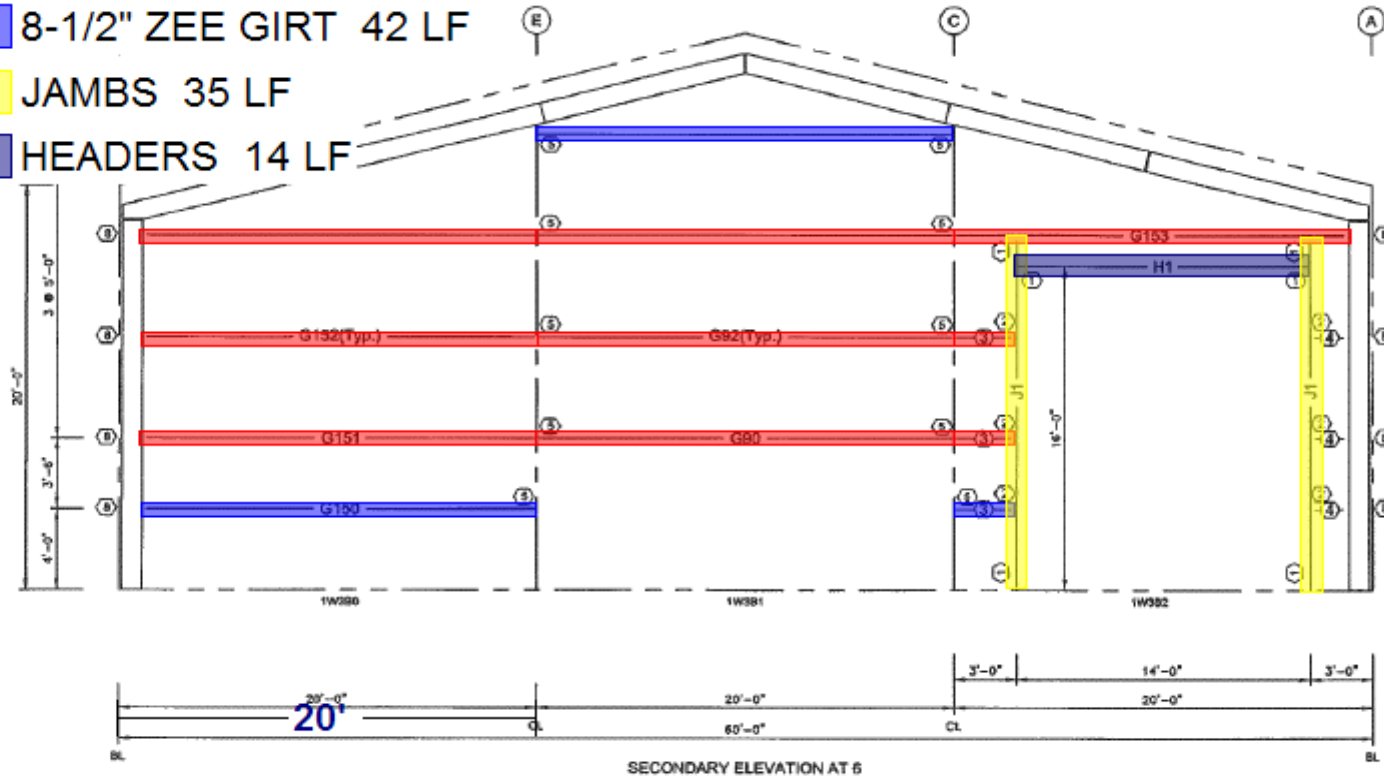
■ 8-1/2" ZEE GIRT 42 LF

■ JAMBS 35 LF

■ HEADERS 14 LF

○ Part Mark Key

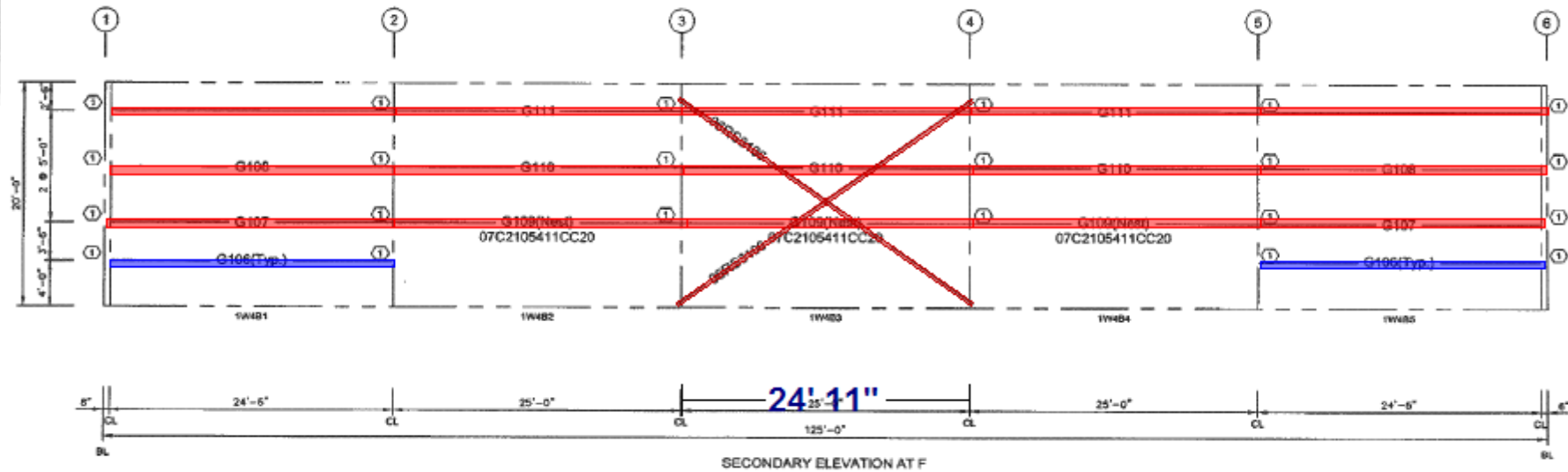
- 1 PG1
- 2 JTG1
- 3 G63
- 4 G71
- 5 GAGX02
- 6 GAGX01

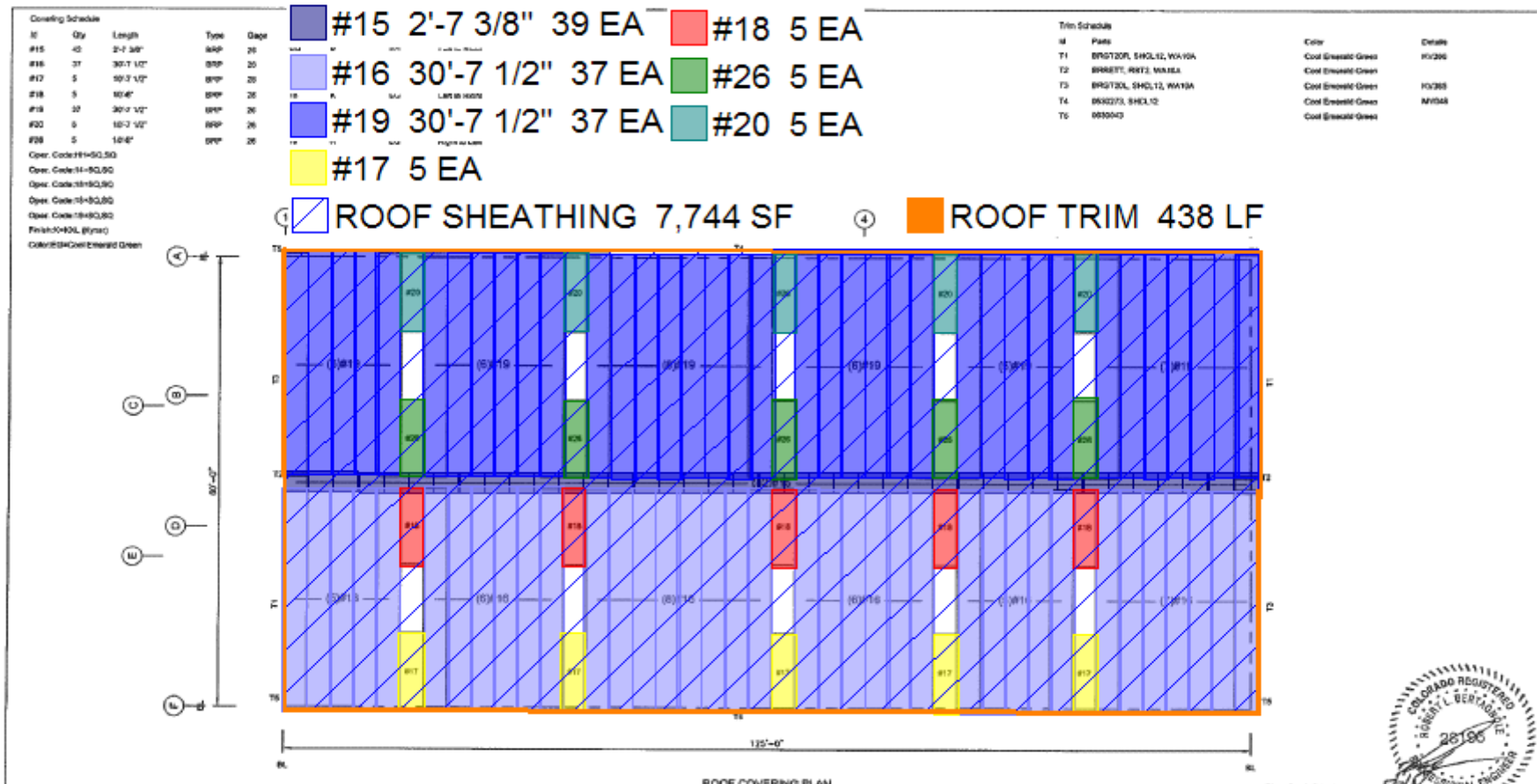


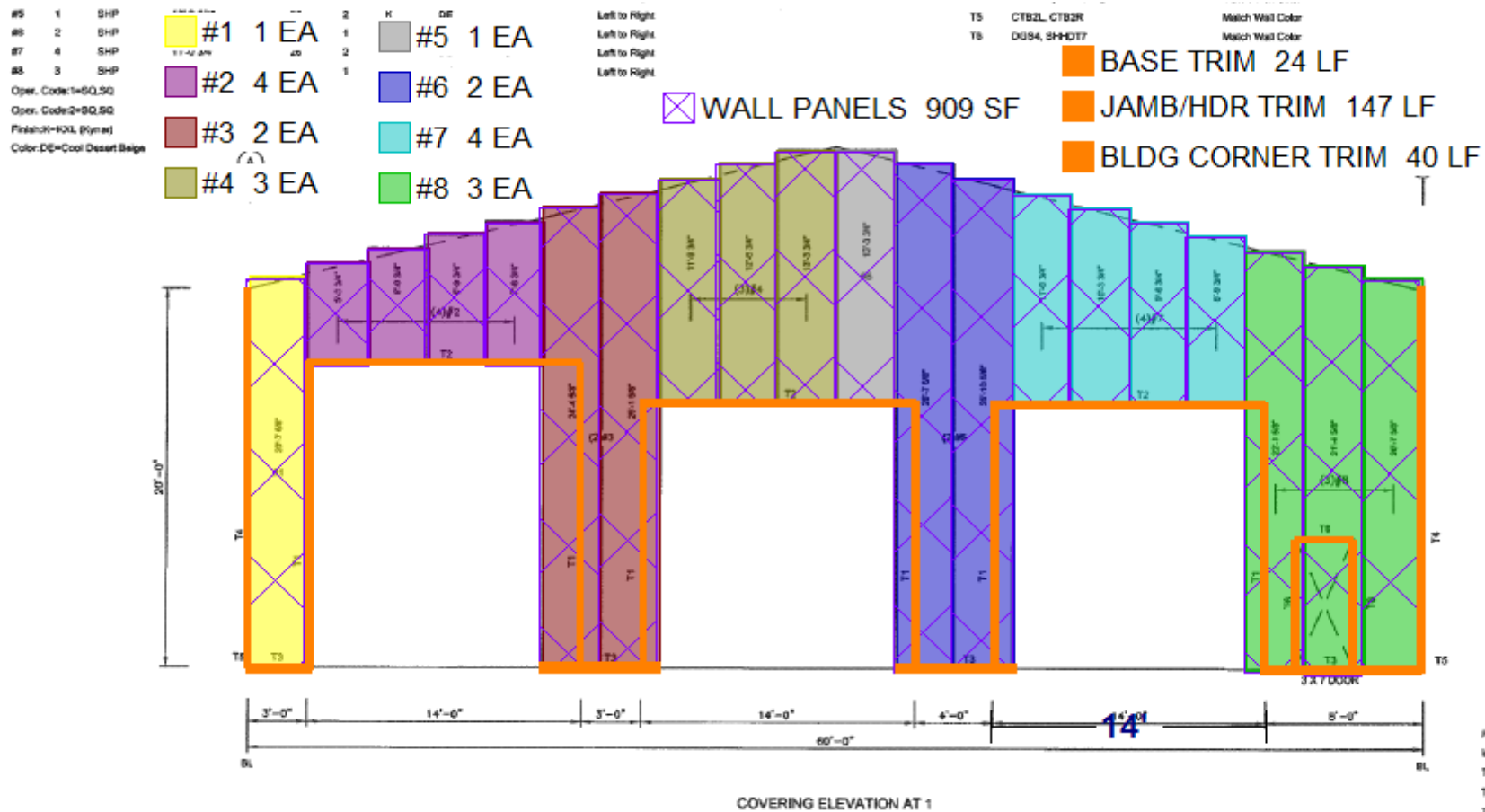
Secondary Part Schedule

Mark	Part	Thick.	Depth	Detail
G106	07C2105411CC20	0.0730	8 1/2"	WS01R2
G107	08Z2403414EE12	0.0790	8 1/2"	WS01R2
G108	08Z2403413EE12	0.0660	8 1/2"	WS01R2, WS01BY
G109	08Z2403412EE12	0.0560	8 1/2"	WS01R2
G110	08Z2404115EE12	0.0730	8 1/2"	WS01BY, WS01BK
G111	08Z2404112EE12	0.0660	8 1/2"	WS01R2
G111	08Z2404114EE12	0.0790	8 1/2"	WS01R2

- TYP - 8-1/2" ZEE GIRT 373 LF
- 8-1/2" ZEE GIRT 49 LF
- 6"DIA - X-BRACE 31.5' 62 LF







Planograph Schedule

Id	Details
T1	P-081202
T2	P-081202
T3	PJR1180 PJR1181 PJR1182

Covering Schedule

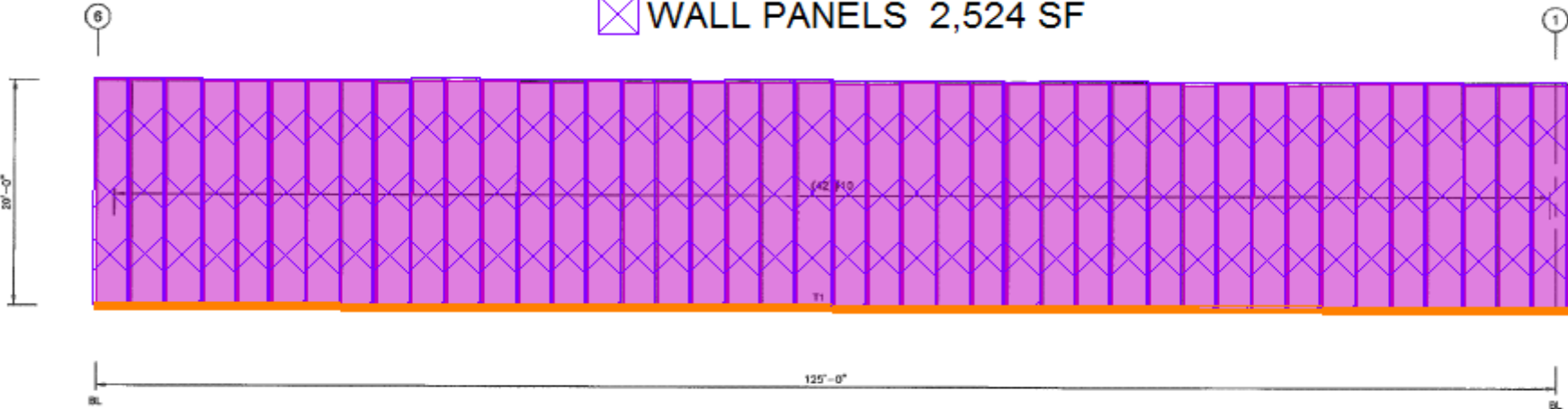
Id	Qty	Type	Start Length	Gage	OP	Fin.	Color	Direction
#10	42	SLP	20'-0 1/4"	26	1	K	DE	Left to Right

Oper. Code: INSQ, SQ
Finish: KHOL (Kynar)
Color: DE-Cool Desert Beige

Trim Schedule

Id	Parts	Color	Details
T1	BG2215, BT12A	Match Wall Color	GV385, GV443, NV363, NV664

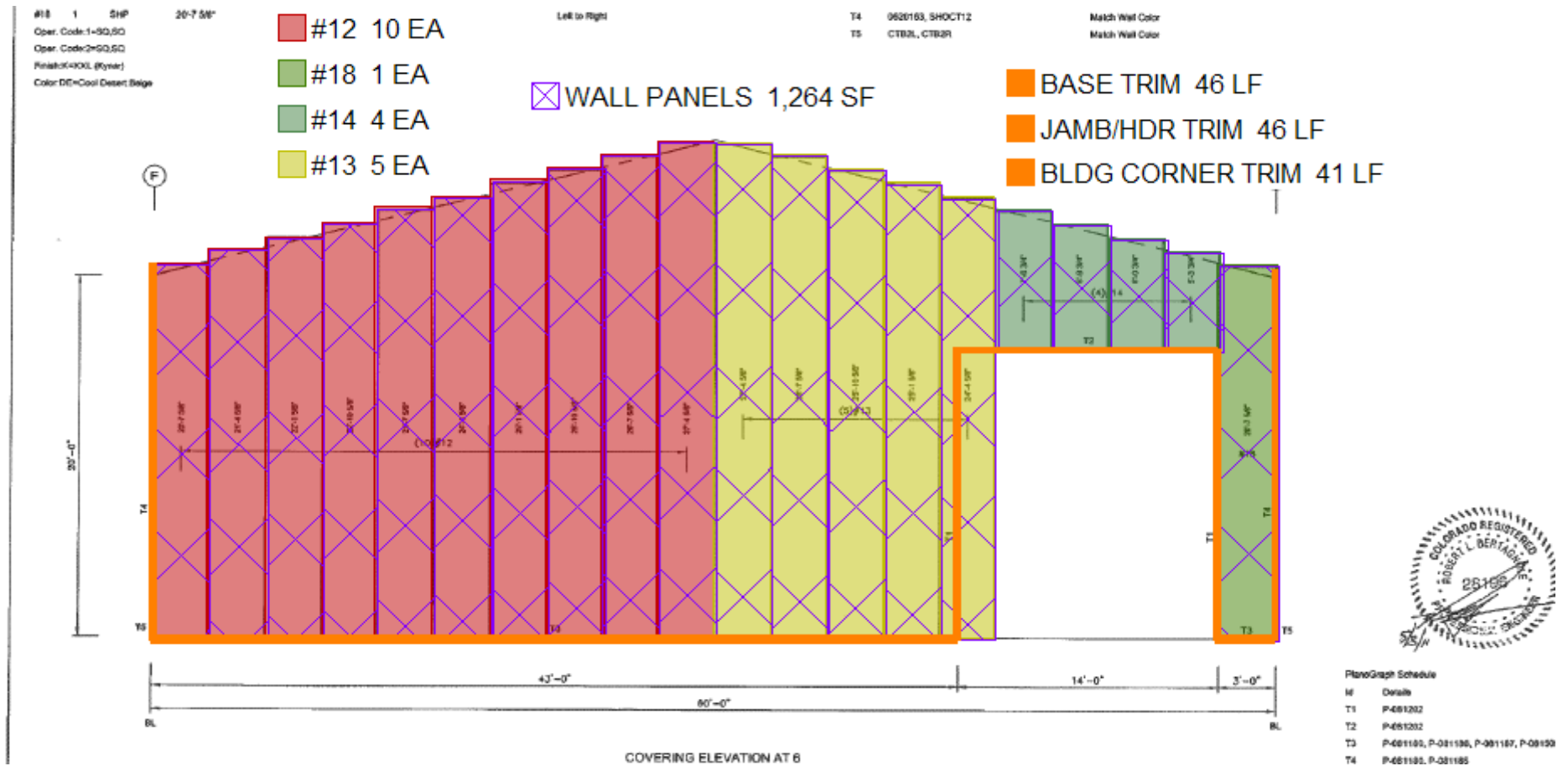
- #10 42 EA
- BASE TRIM 126 LF
- WALL PANELS 2,524 SF



BLUE MESA EQUIPMENT BLDG ERECTION
SOLICATION R12PS40016

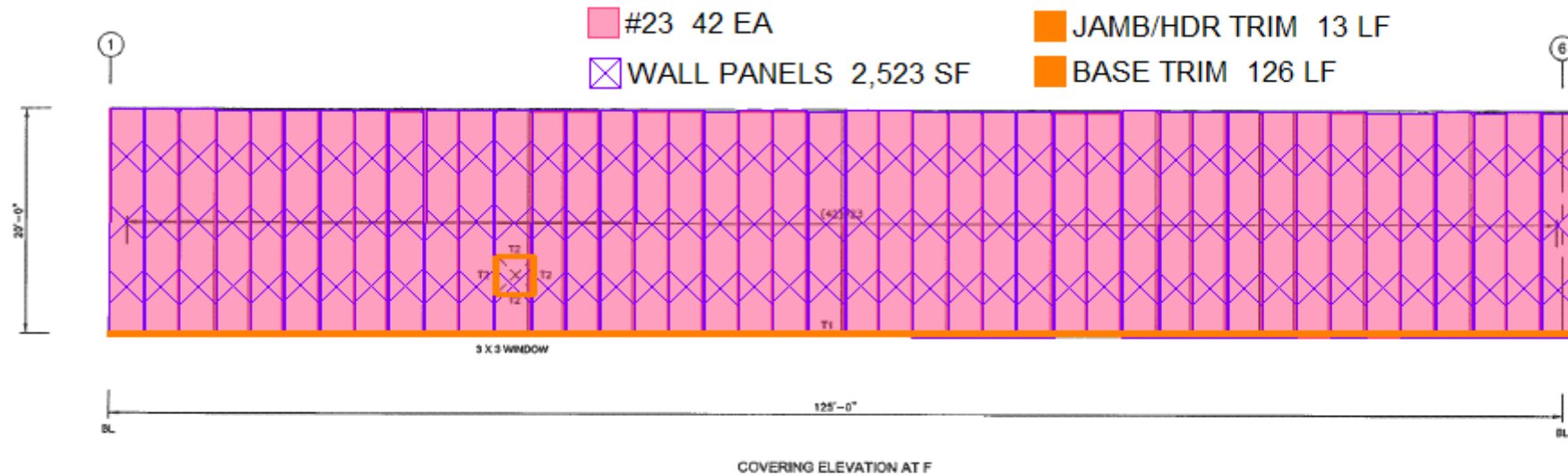
EXHIBIT 'A'
SCOPE OF WORK

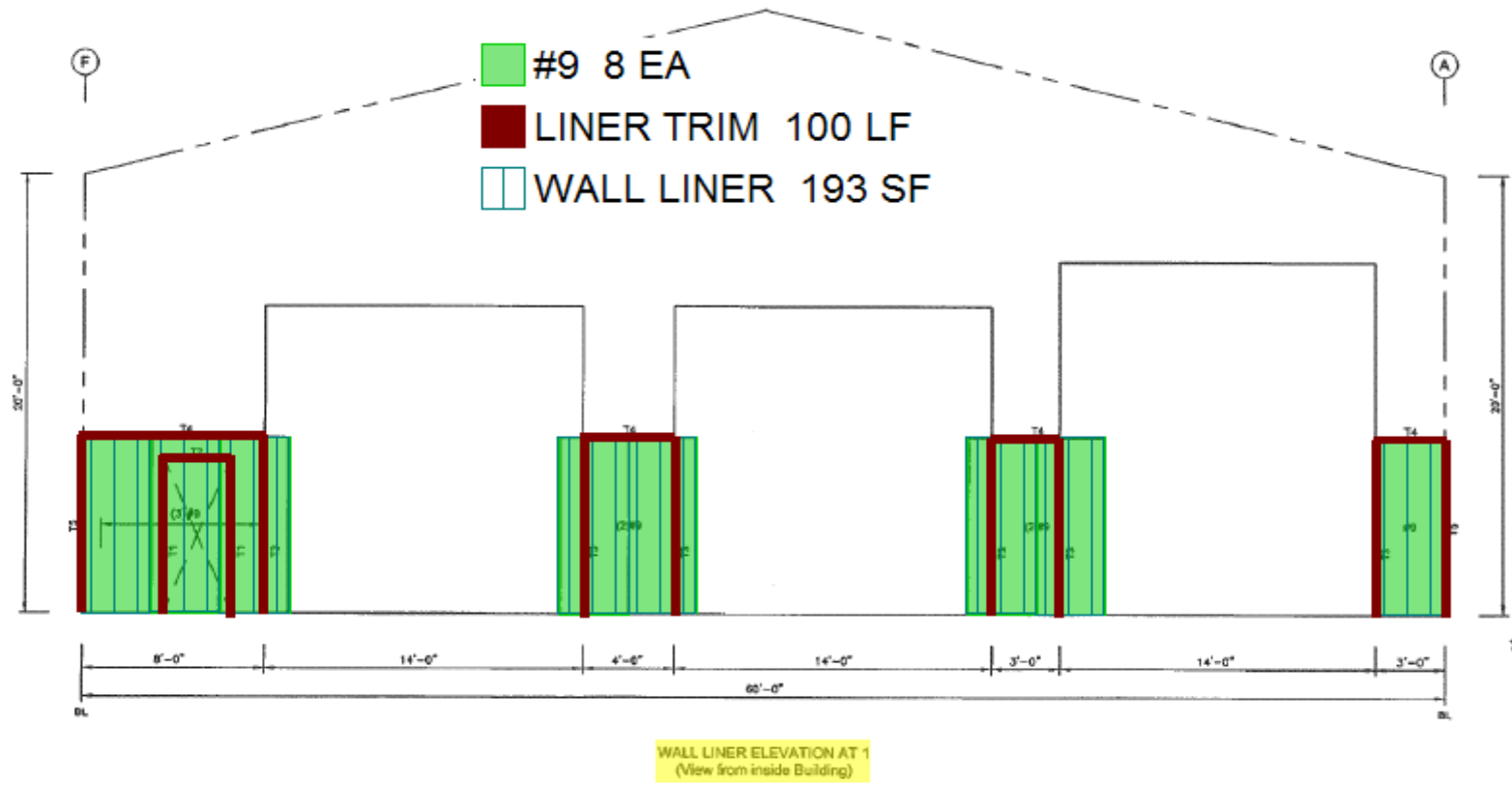
QUOTATION NO. 12-0228



QUOTATION NO. 12-0228

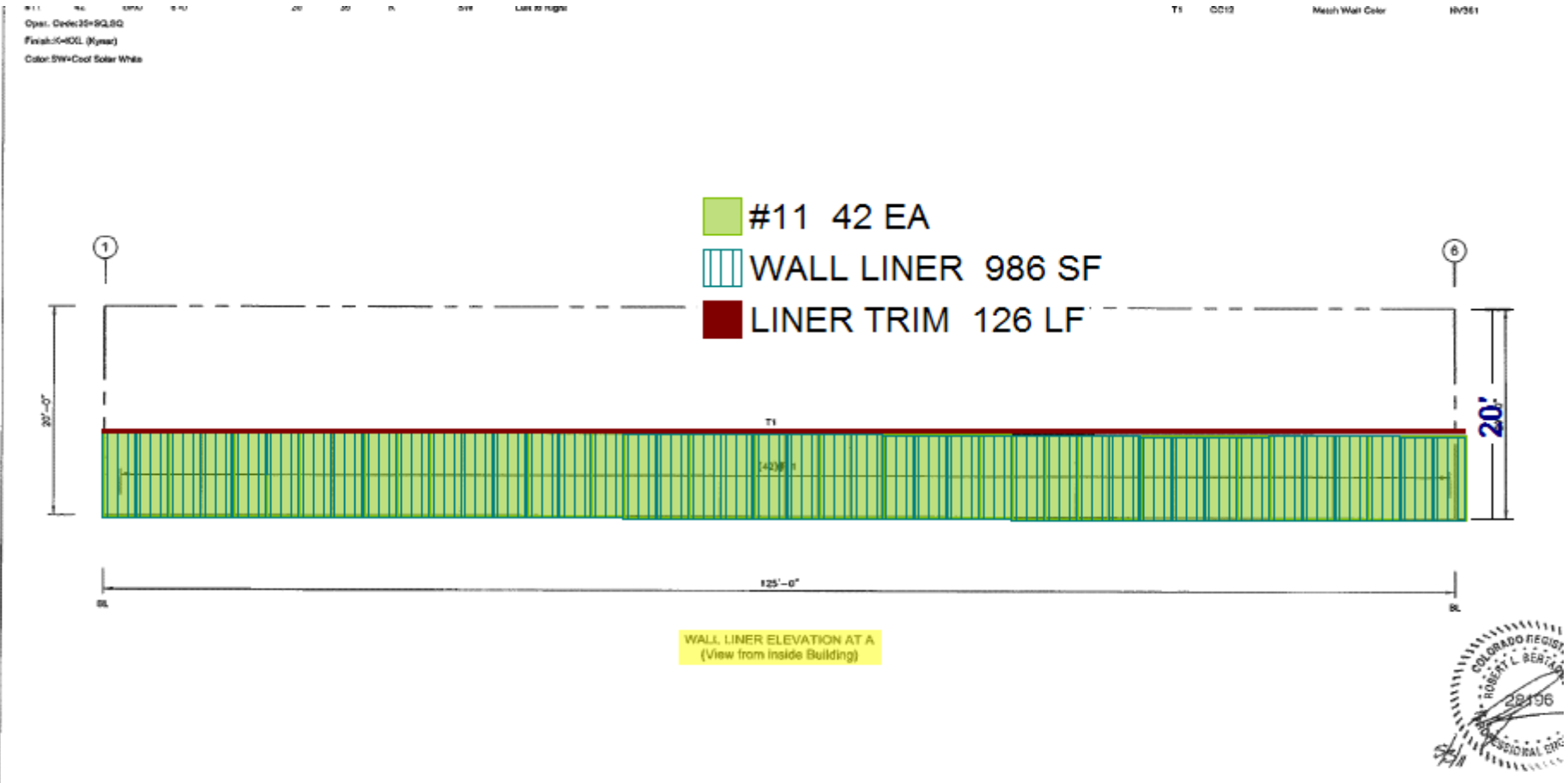
GV380, GV443, NV353, NV764

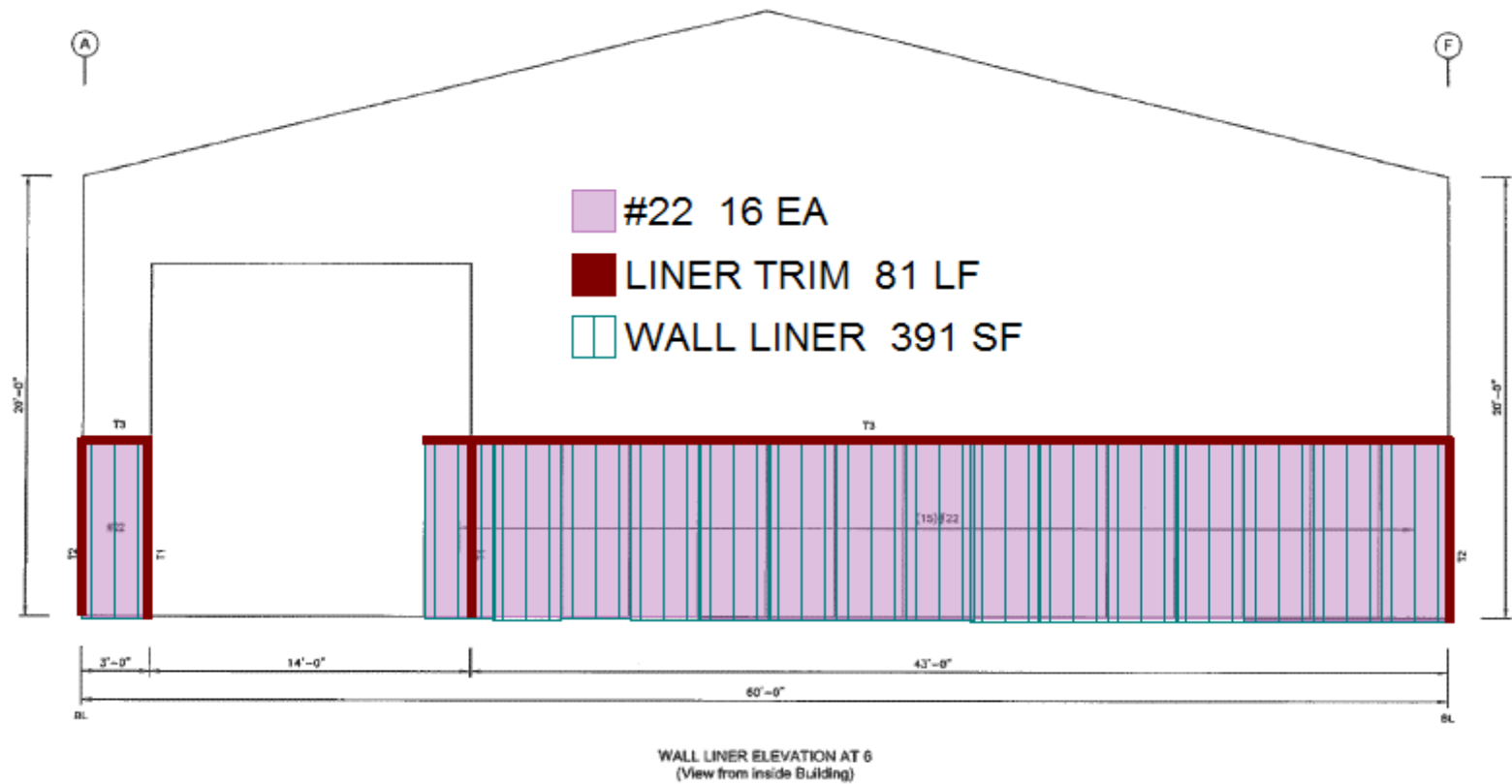




PlenoGraph Schedule

id	Detail
T1	P-092234
T2	P-092234
T3	P-092234
T4	P-092234





Paragraph Schedule	
M	Details
T1	P-080234
T2	P-080234
T3	P-080234

