THE COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT
DEPARTMENT OF LABOR STANDARDS

Prevailing Wage Rates

As determined by the Director under the provisions of the Massachusetts General Laws, Chapter 149, Sections 26 to 27H

CHARLES D. BAKER
Governor

KARYN E. POLITO
Lt. Governor

RONALD L. WALKER, II
Secretary

WILLIAM D MCKINNEY
Director

Awarding Authority: City of Lowell

Contract Number:

City/Town: LOWELL

Description of Work: IFB16-42 Sewer Line and Manhole Cleaning

Job Location: Lowell

Information about Prevailing Wage Schedules for Awarding Authorities and Contractors

- This wage schedule applies only to the specific project referenced at the top of this page and uniquely identified by the "Wage Request Number" on all pages of this schedule.
- An Awarding Authority must request an updated wage schedule from the Department of Labor Standards ("DLS") if it has not opened bids or selected a contractor within 90 days of the date of issuance of the wage schedule. For CM AT RISK projects (bid pursuant to G.L. c.149A), the earlier of: (a) the execution date of the GMP Amendment, or (b) the bid for the first construction scope of work must be within 90-days of the wage schedule issuance date.
- The wage schedule shall be incorporated in any advertisement or call for bids for the project as required by M.G.L. c. 149, § 27. The wage schedule shall be made a part of the contract awarded for the project. The wage schedule must be posted in a conspicuous place at the work site for the life of the project in accordance with M.G.L. c. 149 § 27. The wages listed on the wage schedule must be paid to employees performing construction work on the project whether they are employed by the prime contractor, a filed sub-bidder, or any sub-contractor.
- All apprentices working on the project are required to be registered with the Massachusetts Division of Apprentice Standards (DAS). Apprentice must keep his/her apprentice identification card on his/her person during all work hours on the project. An apprentice registered with DAS may be paid the lower apprentice wage rate at the applicable step as provided on the prevailing wage schedule. **If an apprentice rate is not listed on the prevailing wage schedule for the trade in which an apprentice is registered with the DAS, the apprentice must be paid the journeyworker's rate for the trade.**
- The wage rates will remain in effect for the duration of the project, except in the case of multi-year public construction projects. For construction projects lasting longer than one year, awarding authorities must request an updated wage schedule. Awarding authorities are required to request these updates no later than two weeks before the anniversary of the date the contract was executed by the awarding authority and the general contractor. For multi-year CM AT RISK projects, awarding authority must request an annual update no later than two weeks before the anniversary date, determined as the earlier of: (a) the execution date of the GMP Amendment, or (b) the execution date of the first amendment to permit procurement of construction services. Contractors are required to obtain the wage schedules from awarding authorities, and to pay no less than these rates to covered workers. The annual update requirement is not applicable to 27F "rental of equipment" contracts.
- Every contractor or subcontractor which performs construction work on the project is required to submit weekly payroll reports and a Statement of Compliance directly to the awarding authority by mail or email and keep them on file for three years. Each weekly payroll report must contain: the employee's name, address, occupational classification, hours worked, and wages paid. Do not submit weekly payroll reports to DLS. A sample of a payroll reporting form may be obtained at http://www.mass.gov/dols/pw.
- Contractors with questions about the wage rates or classifications included on the wage schedule have an affirmative obligation to inquire with DLS at (617) 626-6953.
- Employees not receiving the prevailing wage rate set forth on the wage schedule may report the violation to the Fair Labor Division of the office of the Attorney General at (617) 727-3465.
- Failure of a contractor or subcontractor to pay the prevailing wage rates listed on the wage schedule to all employees who perform construction work on the project is a violation of the law and subjects the contractor or subcontractor to civil and criminal penalties.

Issue Date: 09/30/2015 **Wage Request Number:** 20150930-006

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
Rental of Equipment - East						
(2 AXLE) DRIVER - EQUIPMENT *TEAMSTERS JOINT COUNCIL NO. 10 ZONE B*	08/01/2015	$31.65	$10.41	$0.00	$0.00	$42.06
	12/01/2015	$31.65	$10.41	$0.00	$0.00	$42.06
	06/01/2016	$32.15	$10.41	$0.00	$0.00	$42.56
	08/01/2016	$32.15	$10.91	$0.00	$0.00	$43.06
	12/01/2016	$32.15	$10.91	$0.00	$0.00	$43.06
(3 AXLE) DRIVER - EQUIPMENT *TEAMSTERS JOINT COUNCIL NO. 10 ZONE B*	08/01/2015	$31.72	$10.41	$0.00	$0.00	$42.13
	12/01/2015	$31.72	$10.41	$0.00	$0.00	$42.13
	06/01/2016	$32.22	$10.41	$0.00	$0.00	$42.63
	08/01/2016	$32.22	$10.91	$0.00	$0.00	$43.13
	12/01/2016	$32.22	$10.91	$0.00	$0.00	$43.13
(4 & 5 AXLE) DRIVER - EQUIPMENT *TEAMSTERS JOINT COUNCIL NO. 10 ZONE B*	08/01/2015	$31.84	$10.41	$0.00	$0.00	$42.25
	12/01/2015	$31.84	$10.41	$0.00	$0.00	$42.25
	06/01/2016	$32.34	$10.41	$0.00	$0.00	$42.75
	08/01/2016	$32.34	$10.91	$0.00	$0.00	$43.25
	12/01/2016	$32.34	$10.91	$0.00	$0.00	$43.25
ADS/SUBMERSIBLE PILOT *PILE DRIVER LOCAL 56 (ZONE 1)*	08/01/2015	$88.29	$9.80	$0.00	$0.00	$98.09
ASPHALT/CONCRETE/CRUSHER PLANT-ON SITE *OPERATING ENGINEERS LOCAL 4*	06/01/2015	$42.83	$10.00	$0.00	$0.00	$52.83
	12/01/2015	$44.08	$10.00	$0.00	$0.00	$54.08
	06/01/2016	$44.83	$10.00	$0.00	$0.00	$54.83
	12/01/2016	$46.08	$10.00	$0.00	$0.00	$56.08
	06/01/2017	$47.08	$10.00	$0.00	$0.00	$57.08
	12/01/2017	$48.08	$10.00	$0.00	$0.00	$58.08
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BACKHOE/FRONT-END LOADER *OPERATING ENGINEERS LOCAL 4*	06/01/2015	$42.83	$10.00	$0.00	$0.00	$52.83
	12/01/2015	$44.08	$10.00	$0.00	$0.00	$54.08
	06/01/2016	$44.83	$10.00	$0.00	$0.00	$54.83
	12/01/2016	$46.08	$10.00	$0.00	$0.00	$56.08
	06/01/2017	$47.08	$10.00	$0.00	$0.00	$57.08
	12/01/2017	$48.08	$10.00	$0.00	$0.00	$58.08
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BULLDOZER/GRADER/SCRAPER *OPERATING ENGINEERS LOCAL 4*	06/01/2015	$42.42	$10.00	$0.00	$0.00	$52.42
	12/01/2015	$43.66	$10.00	$0.00	$0.00	$53.66
	06/01/2016	$44.41	$10.00	$0.00	$0.00	$54.41
	12/01/2016	$45.64	$10.00	$0.00	$0.00	$55.64
	06/01/2017	$46.63	$10.00	$0.00	$0.00	$56.63
	12/01/2017	$47.62	$10.00	$0.00	$0.00	$57.62
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
CLAM SHELLS/SLURRY BUCKETS/HEADING MACHINES *OPERATING ENGINEERS LOCAL 4*	06/01/2015	$43.83	$10.00	$0.00	$0.00	$53.83
	12/01/2015	$45.08	$10.00	$0.00	$0.00	$55.08
	06/01/2016	$45.83	$10.00	$0.00	$0.00	$55.83
	12/01/2016	$47.08	$10.00	$0.00	$0.00	$57.08
	06/01/2017	$48.08	$10.00	$0.00	$0.00	$58.08
	12/01/2017	$49.08	$10.00	$0.00	$0.00	$59.08
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
COMPRESSOR OPERATOR *OPERATING ENGINEERS LOCAL 4*	06/01/2015	$29.61	$10.00	$0.00	$0.00	$39.61
	12/01/2015	$30.48	$10.00	$0.00	$0.00	$40.48
	06/01/2016	$31.00	$10.00	$0.00	$0.00	$41.00
	12/01/2016	$31.87	$10.00	$0.00	$0.00	$41.87
	06/01/2017	$32.56	$10.00	$0.00	$0.00	$42.56
	12/01/2017	$33.25	$10.00	$0.00	$0.00	$43.25
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
DIVER *PILE DRIVER LOCAL 56 (ZONE 1)*	08/01/2015	$58.86	$9.80	$0.00	$0.00	$68.66
DIVER TENDER *PILE DRIVER LOCAL 56 (ZONE 1)*	08/01/2015	$42.04	$9.80	$0.00	$0.00	$51.84
DIVER TENDER (EFFLUENT) *PILE DRIVER LOCAL 56 (ZONE 1)*	08/01/2015	$63.06	$9.80	$0.00	$0.00	$72.86
DIVER/SLURRY (EFFLUENT) *PILE DRIVER LOCAL 56 (ZONE 1)*	08/01/2015	$88.23	$9.80	$0.00	$0.00	$98.03
FLAGGER & SIGNALER *LABORERS - ZONE 2*	06/01/2015	$20.50	$7.30	$0.00	$0.00	$27.80
	12/01/2015	$20.50	$7.30	$0.00	$0.00	$27.80
	06/01/2016	$20.50	$7.30	$0.00	$0.00	$27.80
	12/01/2016	$20.50	$7.30	$0.00	$0.00	$27.80
For apprentice rates see "Apprentice- LABORER"						
FORK LIFT/CHERRY PICKER *OPERATING ENGINEERS LOCAL 4*	06/01/2015	$42.83	$10.00	$0.00	$0.00	$52.83
	12/01/2015	$44.08	$10.00	$0.00	$0.00	$54.08
	06/01/2016	$44.83	$10.00	$0.00	$0.00	$54.83
	12/01/2016	$46.08	$10.00	$0.00	$0.00	$56.08
	06/01/2017	$47.08	$10.00	$0.00	$0.00	$57.08
	12/01/2017	$48.08	$10.00	$0.00	$0.00	$58.08
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
GENERATOR/LIGHTING PLANT/HEATERS *OPERATING ENGINEERS LOCAL 4*	06/01/2015	$29.61	$10.00	$0.00	$0.00	$39.61
	12/01/2015	$30.48	$10.00	$0.00	$0.00	$40.48
	06/01/2016	$31.00	$10.00	$0.00	$0.00	$41.00
	12/01/2016	$31.87	$10.00	$0.00	$0.00	$41.87
	06/01/2017	$32.56	$10.00	$0.00	$0.00	$42.56
	12/01/2017	$33.25	$10.00	$0.00	$0.00	$43.25
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
HOISTING ENGINEER/CRANES/GRADALLS *OPERATING ENGINEERS LOCAL 4*	06/01/2015	$42.83	$10.00	$0.00	$0.00	$52.83
	12/01/2015	$44.08	$10.00	$0.00	$0.00	$54.08
	06/01/2016	$44.83	$10.00	$0.00	$0.00	$54.83
	12/01/2016	$46.08	$10.00	$0.00	$0.00	$56.08
	06/01/2017	$47.08	$10.00	$0.00	$0.00	$57.08
	12/01/2017	$48.08	$10.00	$0.00	$0.00	$58.08

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate

Apprentice - *OPERATING ENGINEERS - Local 4*

Effective Date - 06/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	$23.56	$10.00	$0.00	$0.00	$33.56
2	60	$25.70	$10.00	$0.00	$0.00	$35.70
3	65	$27.84	$10.00	$0.00	$0.00	$37.84
4	70	$29.98	$10.00	$0.00	$0.00	$39.98
5	75	$32.12	$10.00	$0.00	$0.00	$42.12
6	80	$34.26	$10.00	$0.00	$0.00	$44.26
7	85	$36.41	$10.00	$0.00	$0.00	$46.41
8	90	$38.55	$10.00	$0.00	$0.00	$48.55

Effective Date - 12/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	$24.24	$10.00	$0.00	$0.00	$34.24
2	60	$26.45	$10.00	$0.00	$0.00	$36.45
3	65	$28.65	$10.00	$0.00	$0.00	$38.65
4	70	$30.86	$10.00	$0.00	$0.00	$40.86
5	75	$33.06	$10.00	$0.00	$0.00	$43.06
6	80	$35.26	$10.00	$0.00	$0.00	$45.26
7	85	$37.47	$10.00	$0.00	$0.00	$47.47
8	90	$39.67	$10.00	$0.00	$0.00	$49.67

Notes:

Apprentice to Journeyworker Ratio:1:6

LABORER *LABORERS - ZONE 2*	06/01/2015	$31.15	$7.30	$0.00	$0.00	$38.45
	12/01/2015	$31.65	$7.30	$0.00	$0.00	$38.95
	06/01/2016	$32.15	$7.30	$0.00	$0.00	$39.45
	12/01/2016	$32.90	$7.30	$0.00	$0.00	$40.20

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate

Apprentice - *LABORER - Zone 2*

Effective Date - 06/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	$18.69	$7.30	$0.00	$0.00	$25.99
2	70	$21.81	$7.30	$0.00	$0.00	$29.11
3	80	$24.92	$7.30	$0.00	$0.00	$32.22
4	90	$28.04	$7.30	$0.00	$0.00	$35.34

Effective Date - 12/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	$18.99	$7.30	$0.00	$0.00	$26.29
2	70	$22.16	$7.30	$0.00	$0.00	$29.46
3	80	$25.32	$7.30	$0.00	$0.00	$32.62
4	90	$28.49	$7.30	$0.00	$0.00	$35.79

Notes:

Apprentice to Journeyworker Ratio:1:5

OILER (OTHER THAN TRUCK CRANES,GRADALLS) *OPERATING ENGINEERS LOCAL 4*	06/01/2015	$21.97	$10.00	$0.00	$0.00	$31.97
	12/01/2015	$22.62	$10.00	$0.00	$0.00	$32.62
	06/01/2016	$23.01	$10.00	$0.00	$0.00	$33.01
	12/01/2016	$23.66	$10.00	$0.00	$0.00	$33.66
	06/01/2017	$24.17	$10.00	$0.00	$0.00	$34.17
	12/01/2017	$24.69	$10.00	$0.00	$0.00	$34.69
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
OILER (TRUCK CRANES, GRADALLS) *OPERATING ENGINEERS LOCAL 4*	06/01/2015	$25.68	$10.00	$0.00	$0.00	$35.68
	12/01/2015	$26.43	$10.00	$0.00	$0.00	$36.43
	06/01/2016	$26.89	$10.00	$0.00	$0.00	$36.89
	12/01/2016	$27.64	$10.00	$0.00	$0.00	$37.64
	06/01/2017	$28.24	$10.00	$0.00	$0.00	$38.24
	12/01/2017	$28.85	$10.00	$0.00	$0.00	$38.85
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
OTHER POWER DRIVEN EQUIPMENT - CLASS II *OPERATING ENGINEERS LOCAL 4*	06/01/2015	$42.42	$10.00	$0.00	$0.00	$52.42
	12/01/2015	$43.66	$10.00	$0.00	$0.00	$53.66
	06/01/2016	$44.41	$10.00	$0.00	$0.00	$54.41
	12/01/2016	$45.64	$10.00	$0.00	$0.00	$55.64
	06/01/2017	$46.63	$10.00	$0.00	$0.00	$56.63
	12/01/2017	$47.62	$10.00	$0.00	$0.00	$57.62
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PANEL & PICKUP TRUCKS DRIVER *TEAMSTERS JOINT COUNCIL NO. 10 ZONE B*	12/01/2012	$30.28	$9.07	$0.00	$0.00	$39.35

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
POWER SHOVEL/DERRICK/TRENCHING MACHINE *OPERATING ENGINEERS LOCAL 4*	06/01/2015	$42.83	$10.00	$0.00	$0.00	$52.83
	12/01/2015	$44.08	$10.00	$0.00	$0.00	$54.08
	06/01/2016	$44.83	$10.00	$0.00	$0.00	$54.83
	12/01/2016	$46.08	$10.00	$0.00	$0.00	$56.08
	06/01/2017	$47.08	$10.00	$0.00	$0.00	$57.08
	12/01/2017	$48.08	$10.00	$0.00	$0.00	$58.08
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PUMP OPERATOR (CONCRETE) *OPERATING ENGINEERS LOCAL 4*	06/01/2015	$42.83	$10.00	$0.00	$0.00	$52.83
	12/01/2015	$44.08	$10.00	$0.00	$0.00	$54.08
	06/01/2016	$44.83	$10.00	$0.00	$0.00	$54.83
	12/01/2016	$46.08	$10.00	$0.00	$0.00	$56.08
	06/01/2017	$47.08	$10.00	$0.00	$0.00	$57.08
	12/01/2017	$48.08	$10.00	$0.00	$0.00	$58.08
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PUMP OPERATOR (DEWATERING, OTHER) *OPERATING ENGINEERS LOCAL 4*	06/01/2015	$29.61	$10.00	$0.00	$0.00	$39.61
	12/01/2015	$30.48	$10.00	$0.00	$0.00	$40.48
	06/01/2016	$31.00	$10.00	$0.00	$0.00	$41.00
	12/01/2016	$31.87	$10.00	$0.00	$0.00	$41.87
	06/01/2017	$32.56	$10.00	$0.00	$0.00	$42.56
	12/01/2017	$33.25	$10.00	$0.00	$0.00	$43.25
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
ROLLER/SPREADER/MULCHING MACHINE *OPERATING ENGINEERS LOCAL 4*	06/01/2015	$42.42	$10.00	$0.00	$0.00	$52.42
	12/01/2015	$43.66	$10.00	$0.00	$0.00	$53.66
	06/01/2016	$44.41	$10.00	$0.00	$0.00	$54.41
	12/01/2016	$45.64	$10.00	$0.00	$0.00	$55.64
	06/01/2017	$46.63	$10.00	$0.00	$0.00	$56.63
	12/01/2017	$47.62	$10.00	$0.00	$0.00	$57.62
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
SPECIALIZED EARTH MOVING EQUIP < 35 TONS *TEAMSTERS JOINT COUNCIL NO. 10 ZONE B*	08/01/2015	$31.94	$10.41	$0.00	$0.00	$42.35
	12/01/2015	$31.94	$10.41	$0.00	$0.00	$42.35
	06/01/2016	$32.44	$10.41	$0.00	$0.00	$42.85
	08/01/2016	$32.44	$10.91	$0.00	$0.00	$43.35
	12/01/2016	$32.44	$10.91	$0.00	$0.00	$43.35
SPECIALIZED EARTH MOVING EQUIP > 35 TONS *TEAMSTERS JOINT COUNCIL NO. 10 ZONE B*	08/01/2015	$32.23	$10.41	$0.00	$0.00	$42.64
	12/01/2015	$32.23	$10.41	$0.00	$0.00	$42.64
	06/01/2016	$32.73	$10.41	$0.00	$0.00	$43.14
	08/01/2016	$32.73	$10.91	$0.00	$0.00	$43.64
	12/01/2016	$32.73	$10.91	$0.00	$0.00	$43.64
TRACTORS/PORTABLE STEAM GENERATORS *OPERATING ENGINEERS LOCAL 4*	06/01/2015	$42.42	$10.00	$0.00	$0.00	$52.42
	12/01/2015	$43.66	$10.00	$0.00	$0.00	$53.66
	06/01/2016	$44.41	$10.00	$0.00	$0.00	$54.41
	12/01/2016	$45.64	$10.00	$0.00	$0.00	$55.64
	06/01/2017	$46.63	$10.00	$0.00	$0.00	$56.63
	12/01/2017	$47.62	$10.00	$0.00	$0.00	$57.62
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TRAILERS FOR EARTH MOVING EQUIPMENT *TEAMSTERS JOINT COUNCIL NO. 10 ZONE B*	08/01/2015	$32.52	$10.41	$0.00	$0.00	$42.93
	12/01/2015	$32.52	$10.41	$0.00	$0.00	$42.93
	06/01/2016	$33.02	$10.41	$0.00	$0.00	$43.43
	08/01/2016	$33.02	$10.91	$0.00	$0.00	$43.93
	12/01/2016	$33.02	$10.91	$0.00	$0.00	$43.93
TREE TRIMMER *OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104*	02/01/2015	$18.05	$3.55	$0.00	$0.00	$21.60
	01/31/2016	$18.51	$3.55	$0.00	$0.00	$22.06
This classification applies only to tree work done: (a) for a utility company, R.E.A. cooperative, or railroad or coal mining company, and (b) for the purpose of operating, maintaining, or repairing the utility company's equipment, and (c) by a person who is using hand or mechanical cutting methods and is not on the ground. This classification does not apply to wholesale tree removal.						
TREE TRIMMER GROUNDMAN *OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104*	02/01/2015	$15.92	$3.55	$0.00	$0.00	$19.47
	01/31/2016	$16.32	$3.55	$0.00	$0.00	$19.87
This classification applies only to tree work done: (a) for a utility company, R.E.A. cooperative, or railroad or coal mining company, and (b) for the purpose of operating, maintaining, or repairing the utility company's equipment, and (c) by a person who is using hand or mechanical cutting methods and is on the ground. This classification does not apply to wholesale tree removal.						
VAC-HAUL/CATCH BASIN CLEANING *TEAMSTERS JOINT COUNCIL NO. 10 ZONE B*	08/01/2015	$31.94	$10.41	$0.00	$0.00	$42.35
	12/01/2015	$31.94	$10.41	$0.00	$0.00	$42.35
	06/01/2016	$32.44	$10.41	$0.00	$0.00	$42.85
	08/01/2016	$32.44	$10.91	$0.00	$0.00	$43.35
	12/01/2016	$32.44	$10.91	$0.00	$0.00	$43.35

Additional Apprentice Information:

Minimum wage rates for apprentices employed on public works projects are listed above as a percentage of the pre-determined hourly wage rate established by the Commissioner under the provisions of the M.G.L. c. 149, ss. 26-27D. Apprentice ratios are established by the Division of Apprenticeship Training pursuant to M.G.L. c. 23, ss. 11E-11L.

All apprentices must be registered with the Division of Apprenticeship Training in accordance with M.G.L. c. 23, ss. 11E-11L.

All steps are six months (1000 hours.)
Ratios are expressed in allowable number of apprentices to journeymen or fraction thereof, unless otherwise specified.

** Multiple ratios are listed in the comment field.
*** APP to JM; 1:1, 2:2, 2:3, 3:4, 4:4, 4:5, 4:6, 5:7, 6:7, 6:8, 6:9, 7:10, 8:10, 8:11, 8:12, 9:13, 10:13, 10:14, etc.
**** APP to JM; 1:1, 1:2, 2:3, 2:4, 3:5, 4:6, 4:7, 5:8, 6:9, 6:10, 7:11, 8:12, 8:13, 9:14, 10:15, 10:16, etc.