



DRAFT

EASTERN CORRIDOR SATELLITE GARAGE BASIS OF ESTIMATE MEMO (DRAFT)

CITY OF WINNIPEG

DRAFT MEMO

PROJECT NO.: 17M-0063-00
DATE: SEPTEMBER 26, 2019

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September 26, 2019

APPROVED¹ BY (must be reviewed for technical accuracy prior to approval)

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September 26, 2019

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INTRODUCTION

As part of the Eastern Corridor Study undertaken by The City of Winnipeg a Maintenance and Storage Facility (MSF) for the transit vehicles was determined necessary. The MSF was developed as a staged facility with initial phase construction for 225 buses beginning in 2020 with additions planned of 125 and 150 rigid body and articulated busses in 2035 and 2050 respectively. Due to constructability concerns at the site initially selected for the facility, the design and cost estimate was developed without a predetermined geographic location. The absence of a physical site has had implications on the development of this estimate insofar as the estimate could only be developed within the project data available. In this case without adequate location information the estimate was advanced to a preliminary level for the Site Work, Buildings, and Equipment required only. For the current design deliverables, within the bounds of the project data available, the methodology used to develop a capital cost estimate for each phase of the Winnipeg Satellite Garage can be described as parametric modeling checked against data for composite representative gross building costs and is considered accurate within +60% and -30%. Costs for offsite work including natural gas and electric site services have been provided as allowances only, with no specific scope attached.

GENERAL METHODOLOGY

Conceptual site and overall building drawings and/or written descriptions have been provided and form the basis for the identification of the various infrastructure elements that were used to prepare the capital cost estimate. These infrastructure elements are organized into the categories of site work, buildings, and equipment and are detailed below. In addition to infrastructure elements, cost allowances for professional services and escalation have also been included to reflect an overall estimate for the facility program. There has been no allowance made in the estimate for the purchase or lease of real estate.

PARAMETRIC MODELLING PROCESS

Parametric modeling is a process where typical infrastructure elements are grouped into a variety of typical facilities. Typical facility costs are developed by combining construction activities that can be associated either with a typical cross-section or plan based on a conceptual scope of work that is common to a specific facility. The typical facility composite unit cost is developed by combining the costs for individual construction elements common to a given typical section or facility and creating a representative composite unit cost. The following describes the process used to develop scope, quantity and cost parameters for each cost component used in the estimate.

Table 1 – Space Needs Program Summary

| | | PHASE 1 225 BUSES | PHASE 2 125 BUSES | PHASE 3 150 BUSES | TOTAL 500 BUSES |
|--|--|----------------------|----------------------|----------------------|--------------------|
| | | (SQ. METERS) | (SQ. METERS) | (SQ. METERS) | (SQ. METERS) |
| Building Areas | | | | | |
| Transit | Shared/Common Spaces, Operations, And Driver's Area | 1,710 | 653 | 0 | 2,363 |
| | Maint. Vehicle Syst-Support, Maint. Vehicle Syst-Shops, Maint-Facility, Stores/Parts | 2,671 | 1,310 | 0 | 3,981 |
| | Maintenance - Vehicles Systems - Shops | 5,956 | 2,698 | 4,441 | 13,096 |
| | Service - Vehicles | 2,278 | 26 | -10 | 2,295 |
| | Agency Vehicle Parking - Interior Spaces | 25,353 | 13,885 | 12,238 | 51,476 |
| Total Building Areas | | 37,970 | 18,573 | 16,670 | 73,214 |
| Exterior Areas | | | | | |
| Transit | Site Areas | 901 | 9 | 345 | 1,255 |
| | Employee / Visitor Vehicle Parking - Exterior Spaces | 10,089 | 3,257 | 5,560 | 18,907 |
| Total All Exterior Areas | | 10,990 | 3,266 | 5,905 | 20,162 |
| Subtotal All Areas | | 48,961 | 21,840 | 48,961 | 48,961 |
| Site Grossing Factor (setbacks, landscaping, stormwater, etc.) | 75% | 36,720 | 16,380 | 16,931 | 70,033 |
| Total for All Areas | | 85,682 | 38,220 | 16,931 | 70,033 |
| Site Area | Unused Space | 95,585 | -21,840 | -48,961 | 51,169 |
| Grand Total for All Areas | | 144,546 | 144,546 | 144,546 | 144,546 |
| Acres | | 35.72 | 35.72 | 35.72 | 35.72 |

SITE WORK

The Site Work component of the attached estimates include costs for all anticipated work required to prepare the site for building construction and finishing of areas of the facility not typically considered building scopes. These scopes include: excavation & removal of contaminated soil and a limited amount of existing impermeable surfaces, clearing & grubbing allowance, rough grading, finish grading, footing excavation or cut as required, erosion control, storm water management, site finishing including aggregate base, asphalt concrete pavement, concrete pavement, signing and striping, parking lots, concrete curb and gutter, concrete sidewalk, and area lighting.

BUILDINGS

The Buildings component of the attached estimates include costs for all anticipated work required to construct the interior enclosed spaces of the facility as well as all typical 'base building' furnishings of the space. Building areas include: the substructure, structure, exterior enclosure, partitions, finishes, mechanical, and electrical. Allowances were included for general requirements, fees, and mobilization. The buildings were estimated for the following major use areas:

- Administrative and Operations Areas;
 - Finished, public office space construction.
 - Includes offices, wellness areas, employee use areas, and meeting space.
- Vehicle Maintenance Areas;
 - Industrial steel frame structure.
 - Includes spaces for in-ground and platform lifts; body repair, upholstery, and painting areas; lube/compressor rooms; and electronics shops.
- Parts Storage Areas;
 - Industrial steel frame structure - Bare, lightly serviced warehouse construction.
 - Includes secure storage, shipping and receiving, consumables area, and canopy covered garage.
- Interior Bus Parking;
 - Industrial steel frame structure - Unfinished, reinforced concrete and steel building.
 - Includes open parking spaces. Additional structure, mechanical, and electrical costs allowed for to permit future building outfitting and retrofitting for electrical and/or compressed natural gas bus fueling/storage
- Service Areas;
 - Industrial steel frame structure - Unfinished, industrial serviced.
 - Includes washing and fueling spaces. Additional structure, mechanical, and electrical costs allowed for to permit future building outfitting and retrofitting for electrical and/or compressed natural gas bus fueling/storage.

EQUIPMENT

The equipment beyond standard finishes, furniture, and equipment for the space use required for the functional operation of the space for the following areas:

- Maintenance Shops Spaces;
 - In-ground lift repair bays, platform lift repair bay, light duty flat bay, portable equipment, electronics bay, electronics shop, common work area, tire bay, tire storage, minor body repair / prep bay, paint booth, paint mix, central dust collection, body shop, upholstery, shop, body shop storage, battery charging, light duty hoist, chassis wash, forklift / scissor lift / sweeper parking, lube /compressor room.
- Maintenance Stores and Parts;
 - Stores, secure storage / tool crib, shipping and receiving, consumables area, and canopy covered garage.
- Maintenance – Facility Spaces;
 - Wood working shop, HVAC / industrial mech shop, electrical FM shop, and FM stores.
- Site Areas;
 - Liquid Fuel Tank Farm

For additional detail on assumed specialty equipment outfitting of the facility, see Appendix D.

SCOPE

The scope of work for the project estimate has been derived from review of the attached conceptual plans of the three phases of the facility development. Areas of scope not indicated on the plans have either been excluded from the estimate, or included as specific assumptions herein.

UNIT COST LIBRARY

Estimates were developed using area take offs, multiplied by an appropriate unit cost for the measured unit. Cost data was developed using several sources and is considered representative to those seen in the Winnipeg metro region for similar types of construction. All unit costs include contractor's direct construction cost plus all taxes, general conditions, mobilization, overhead and profit. Where costs were estimated in US currency and a conversion factor of \$1.33 Canadian dollars to \$1.00 US dollar was applied. The unit costs do not include allowances for such items as engineering, construction management, owner's administrative costs and allowances for contingencies. These costs were included as percentage add-ons to the cost estimate under separate sections.

ALLOWANCES

DESIGN ALLOWANCE

Design allowance is typically included in an estimate as an allowance for minor variability in scope between the time of estimate and construction that would not be significant enough to warrant re-estimation. This item accounts for potential design changes that could impact overall project cost including the selection of materials, finishes, fixtures, and specific equipment. A design allowance of 10% has been applied to each cost category.

CONSTRUCTION AND PRICING ALLOWANCE

A contingency for construction and pricing was included for the level of detail of estimate completed. Like the Design Allowance the construction and pricing contingency is meant to account for the differences in the final value from the calculated value due to potential project change resulting from unforeseen conditions/events during construction, economic conditions, trade pricing, and material costs. A Construction and Pricing allowance of 15% has been applied to each cost category.

PROFESSIONAL SERVICES ALLOWANCE

This cost category includes allowances for construction management, environmental clearance, design and specifications, design services during construction, design reviews by other, permitting and agency administration. These allowances are computed by applying a percentage to the total construction cost estimated for each cost category. The total percentage add-on for each of the various elements within this cost category is 30%.

ASSUMPTIONS

- The estimates for each phase reflect 2019 dollars.
- Escalation was determined based on the City of Winnipeg Rate table for Basis of Estimate (2019).

- Site work was developed based on the assumed work required for similarly sized facilities. As no site is known for this facility, risk exists in the costs estimated for sitework if site conditions vary significantly from the assumed topography, layout, size, or soil conditions.
 - Buildings are assumed to be constructed to allow for future outfitting for compressed natural gas fueling and/or electrification of busses. No specific equipment has been included in the estimate to support electric bus charging or natural gas bus fueling, maintenance, or storage.
 - This estimate is based upon the assumption that there will be an adequate level of competition.
 - The estimate presents the total project value of the scope of work represented in the feasibility documents.
 - That third parties will not interfere with the overall construction of the project.
 - That no unusual work restriction or obligation will be imposed upon the contract that will prevent or impede the contractor in performing the work in the most efficient way.
 - That the contractor will be required to have coverage for General Liability, Excess Liability and Builders Risk Insurance.
 - That the contractor will not be restricted from access to work areas where work needs to be performed.
 - Offsite utility servicing scope assumed with a budget of \$350k.
-

EXCLUSIONS

Due to the nature of the estimate without an established site a number of site dependent and highly variable items could not be estimated as part of the project; these include but are not limited to:

- Land Acquisition
 - Existing building or site improvement demolition
 - External road improvements
 - Traffic management
 - Site Access
 - Other Costs (Sound Attenuation, Public Realm and Placemaking)
 - Financing Costs
 - Provincial and Federal taxes
-

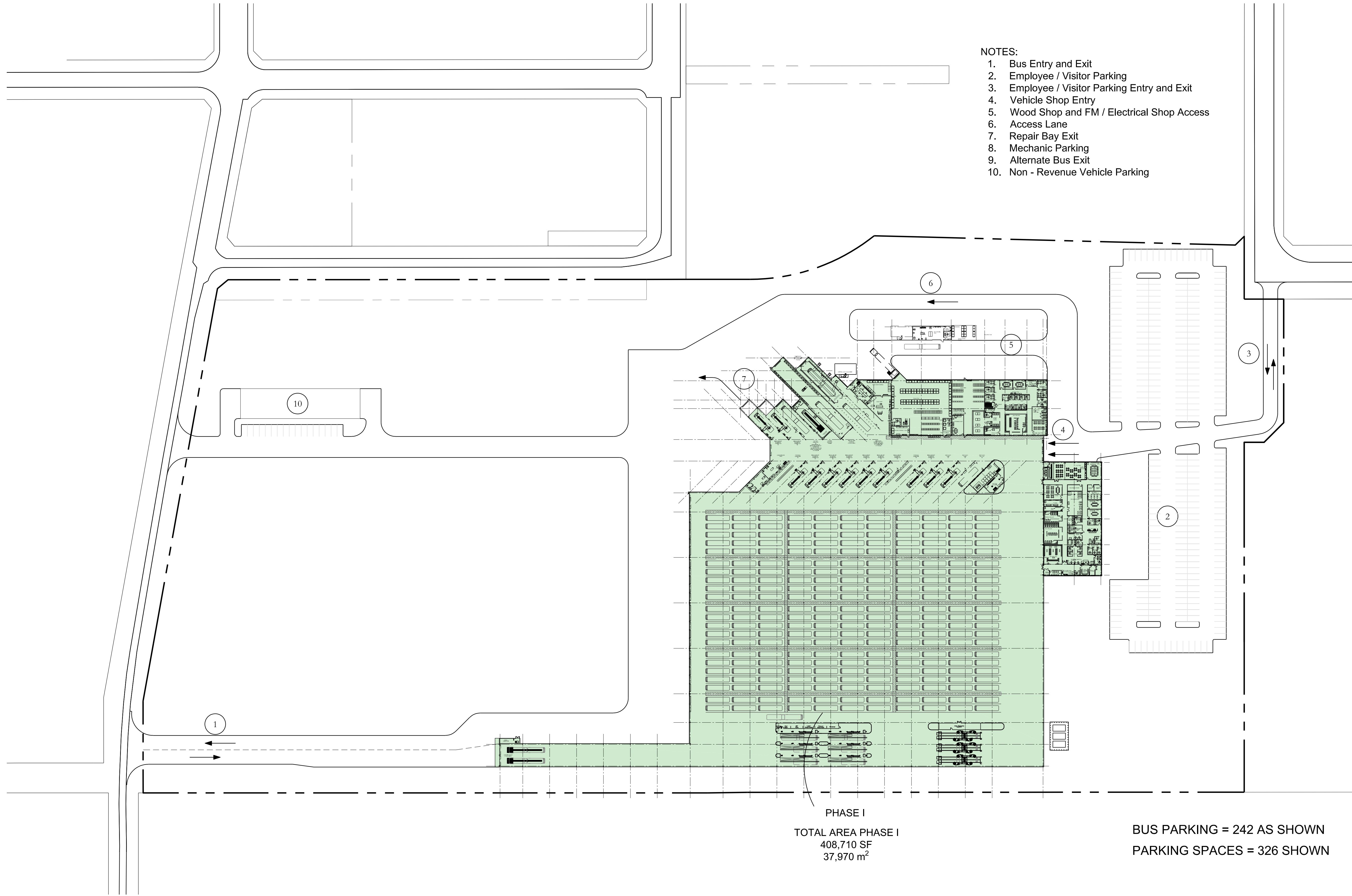
QUALIFICATION

This estimate represents an opinion of probable construction cost in 2019 dollars, based on our professional experience and qualifications. There are any number of factors which can influence a probable contractors actual bid, therefore we cannot guarantee that actual bids or final construction costs will not vary from this opinion of probable cost.

APPENDIX

A SITE PLANS

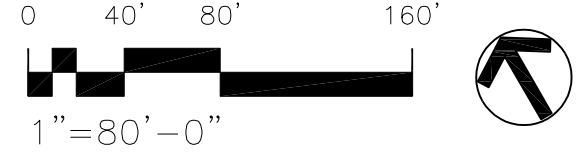




- NOTES:
1. Bus Entry and Exit
 2. Employee / Visitor Parking
 3. Employee / Visitor Parking Entry and Exit
 4. Vehicle Shop Entry
 5. Wood Shop and FM / Electrical Shop Access
 6. Access Lane
 7. Repair Bay Exit
 8. Mechanic Parking
 9. Alternate Bus Exit
 10. Non - Revenue Vehicle Parking

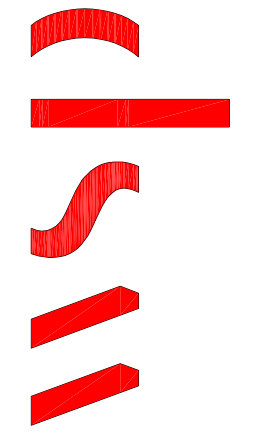
PHASE I
 TOTAL AREA PHASE I
 408,710 SF
 37,970 m²

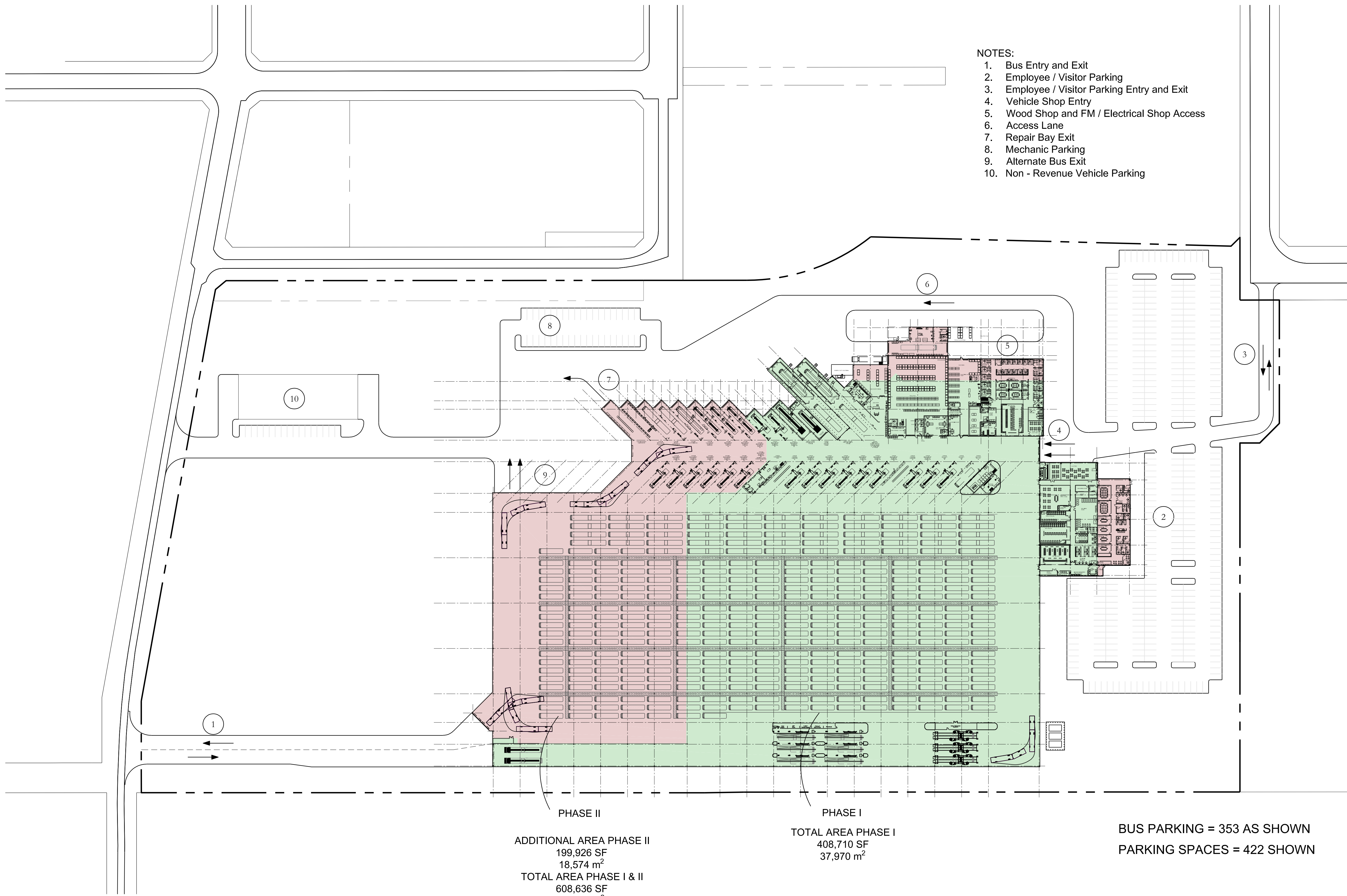
BUS PARKING = 242 AS SHOWN
 PARKING SPACES = 326 SHOWN



| | | | | |
|----------------|--|--|--|-------------|
| DRAWING NUMBER | DRAWING TITLE | | | PROJECT NO. |
| | OVERALL SITE PLAN WINNIPEG TSG PHASE 1 | | | 189023 |
| SITE1 | PROJECT TITLE | | | DRAWN BY |
| | WINNIPEG TRANSIT EAST GARAGE | | | CDE |
| | | | | DATE |
| | | | | SCALE |
| | | | | 20190729 |
| | | | | 22x34 |
| | | | | 1" = 80' |
| | | | | 11 X 17 |
| | | | | 1" = 160' |

WSP USA Inc.
 16200 PARK ROW
 SUITE 200
 HOUSTON, TEXAS 77084
 TEL: (281) 688-5900
 FAX: (281) 758-5164



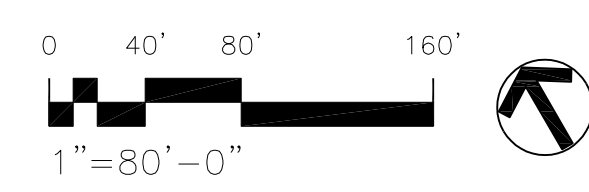


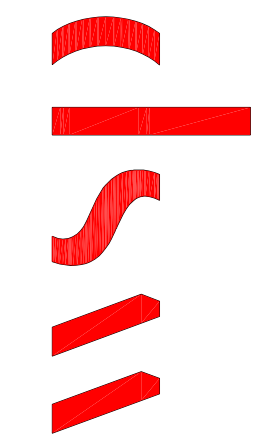
- NOTES:
1. Bus Entry and Exit
 2. Employee / Visitor Parking
 3. Employee / Visitor Parking Entry and Exit
 4. Vehicle Shop Entry
 5. Wood Shop and FM / Electrical Shop Access
 6. Access Lane
 7. Repair Bay Exit
 8. Mechanic Parking
 9. Alternate Bus Exit
 10. Non - Revenue Vehicle Parking

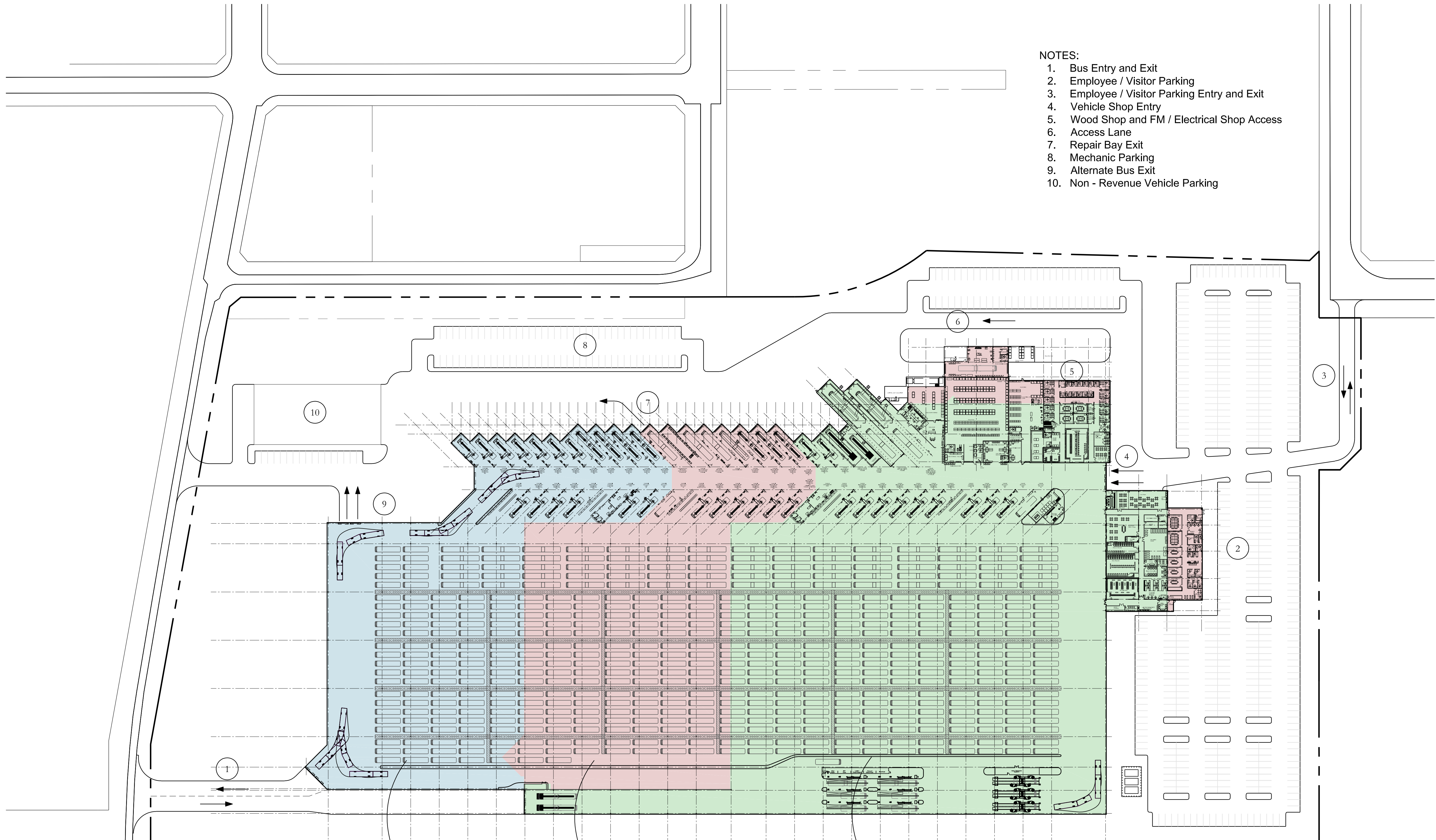
PHASE II
 ADDITIONAL AREA PHASE II
 199,926 SF
 18,574 m²
 TOTAL AREA PHASE I & II
 608,636 SF
 56,544 m²

PHASE I
 TOTAL AREA PHASE I
 408,710 SF
 37,970 m²

BUS PARKING = 353 AS SHOWN
 PARKING SPACES = 422 SHOWN



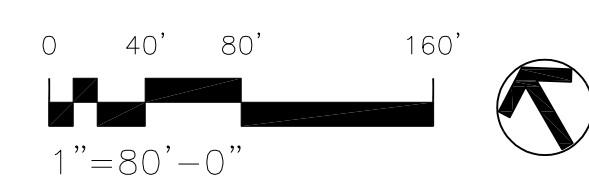
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|---|-------------------|--|--|------------------------------|-------------------------------------|
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| | WINNIPEG TSG | | | DATE | 20190729 |
| | PHASE 2 | | | SCALE | 22x34 1" = 80' 11 X 17 1" = 160' |
| WSP USA Inc. 16200 PARK ROW SUITE 200 HOUSTON, TEXAS 77084 TEL: (281) 688-5900 FAX: (281) 758-5164 | | | | PROJECT TITLE | |
|  | | | | WINNIPEG TRANSIT EAST GARAGE | |



- NOTES:
1. Bus Entry and Exit
 2. Employee / Visitor Parking
 3. Employee / Visitor Parking Entry and Exit
 4. Vehicle Shop Entry
 5. Wood Shop and FM / Electrical Shop Access
 6. Access Lane
 7. Repair Bay Exit
 8. Mechanic Parking
 9. Alternate Bus Exit
 10. Non - Revenue Vehicle Parking

| | | | |
|--|---|---|--|
| PHASE III | PHASE II | PHASE I | |
| ADDITIONAL AREA PHASE III 179,437 SF 16,670 m ² | ADDITIONAL AREA PHASE II 199,926 SF 18,574 m ² | TOTAL AREA PHASE I 408,710 SF 37,970 m ² | |
| TOTAL AREA PHASE I, II, III 788,073 SF 73,214 m ² | TOTAL AREA PHASE I & II 608,636 SF 56,544 m ² | | |

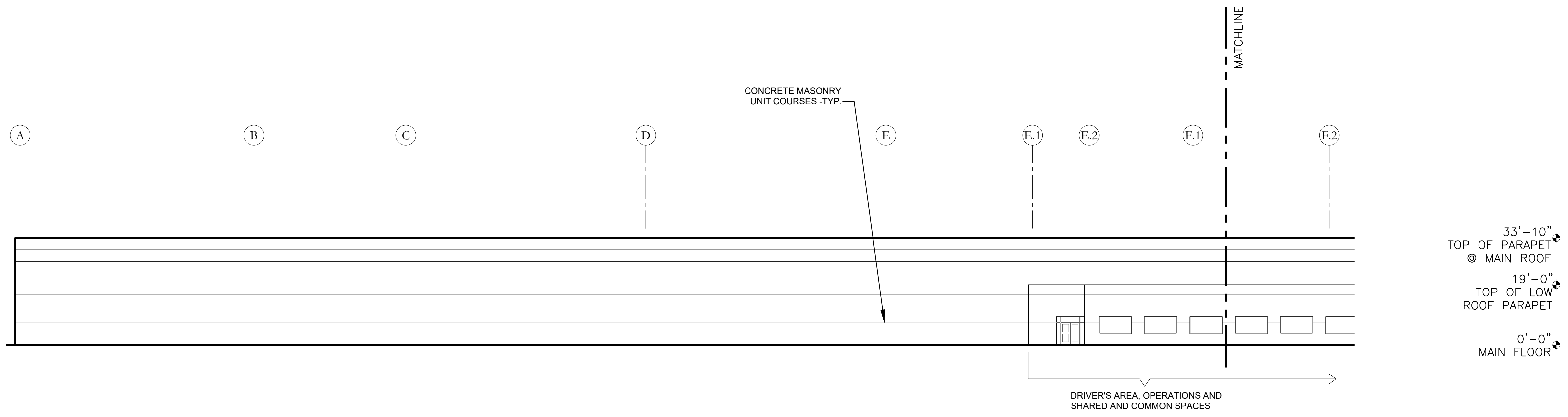
BUS PARKING = 500 AS SHOWN
 PARKING SPACES = 612 SHOWN



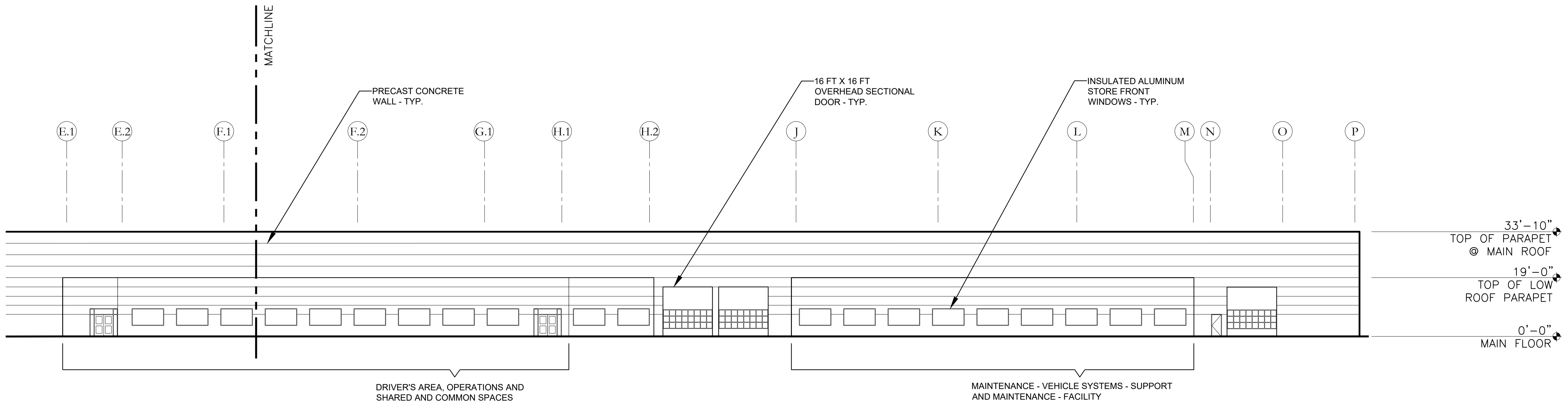
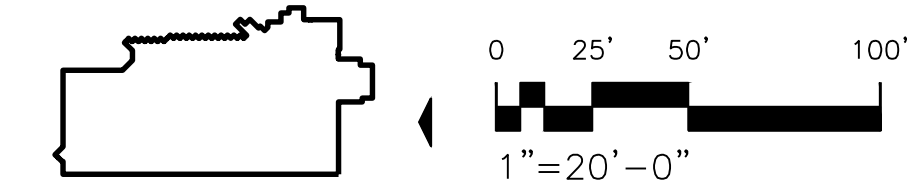
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|----------------|--|-------------|---|
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| | | PROJECT NO. | WINNIPEG TRANSIT EAST GARAGE |
| | <small>WSP USA Inc. 16200 PARK ROW SUITE 200 HOUSTON, TEXAS 77084 TEL: (281) 688-5900 FAX: (281) 758-5164</small> | DRAWN BY | WINNIPEG TRANSIT EAST GARAGE |
| | | DATE | WINNIPEG TRANSIT EAST GARAGE |
| | | SCALE | WINNIPEG TRANSIT EAST GARAGE |

APPENDIX

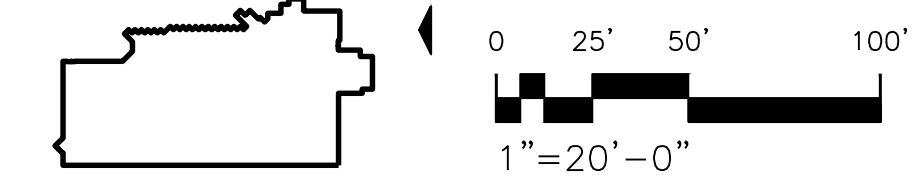
B ELEVATIONS



PARTIAL EAST ELEVATION 2
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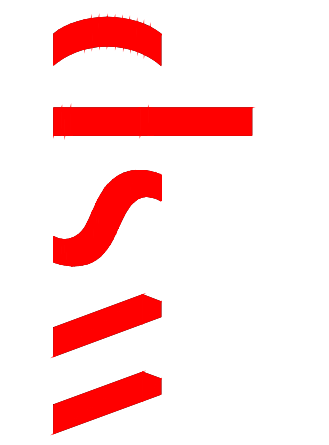


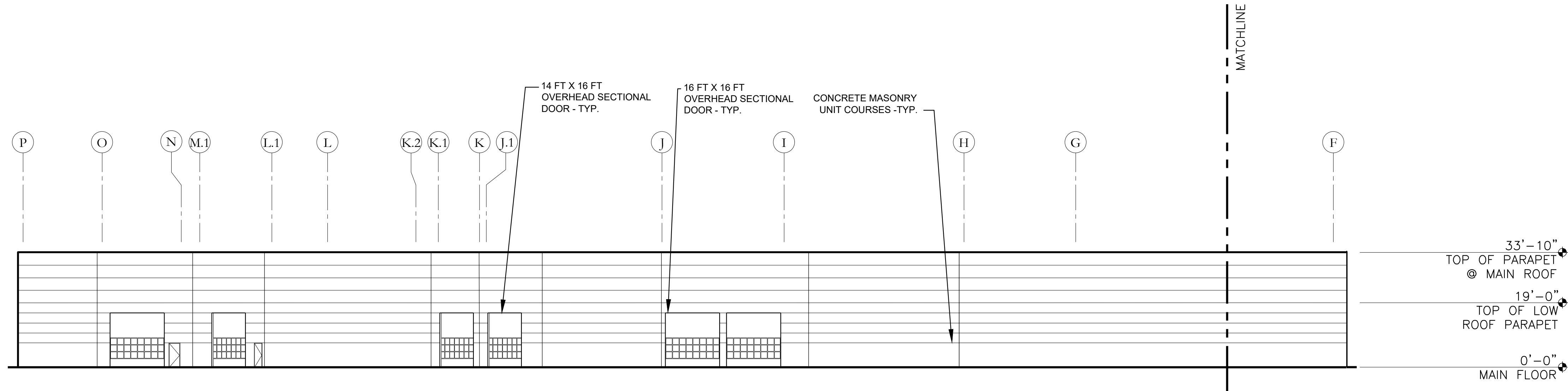
PARTIAL EAST ELEVATION 1
SCALE: 1" = 20'-0"



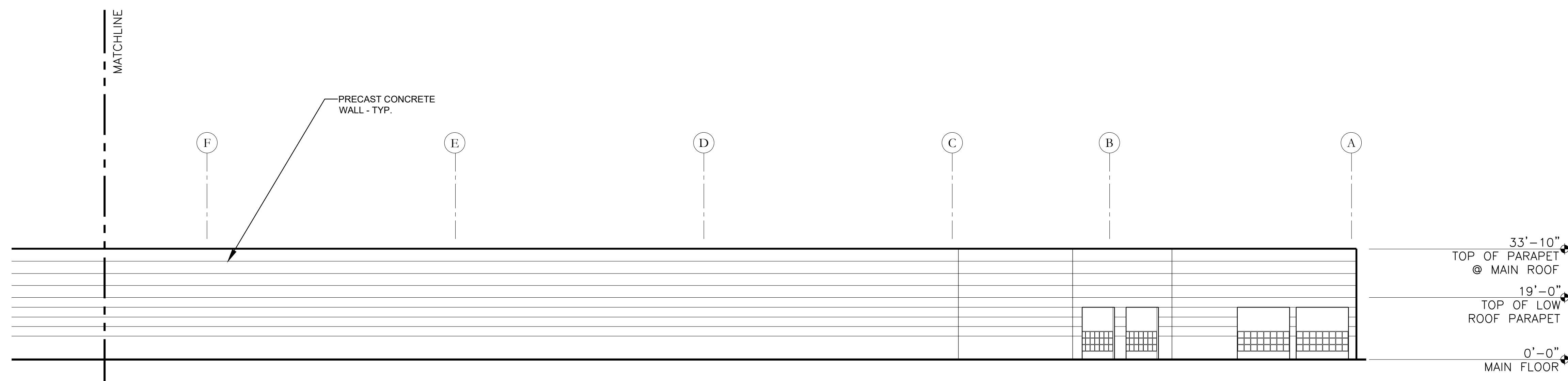
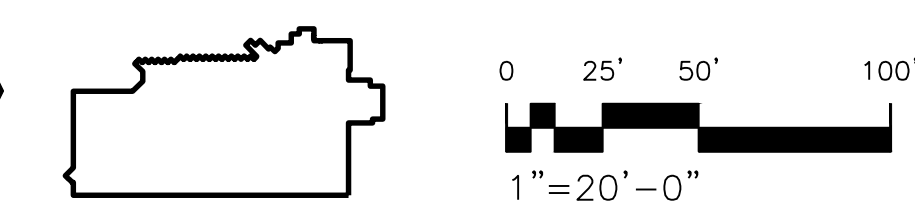
| | | | | | |
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| | PROJECT TITLE WINNIPEG TRANSIT EAST GARAGE | | | | |
| | PROJECT NO. | 189023 | DRAWN BY | CDE | |
| | | DATE | 20190729 | SCALE | 22x34 1" = 20' 11 X 17 1" = 40' |

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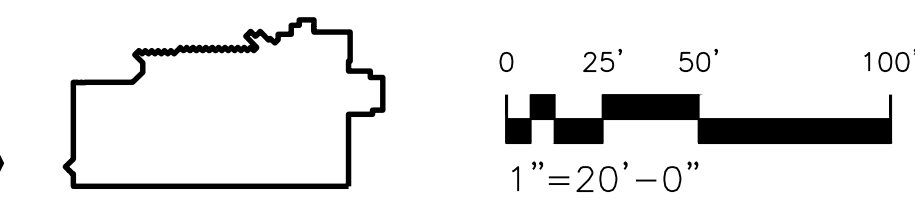




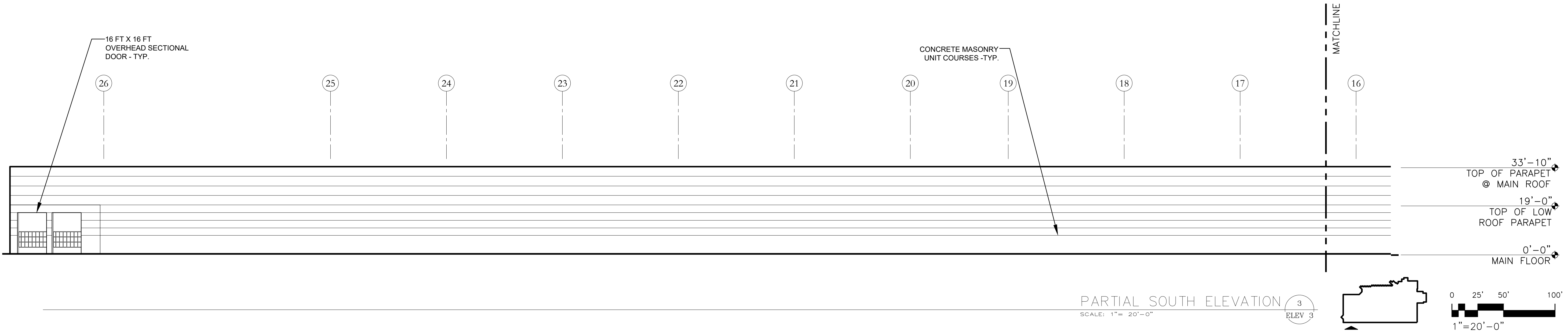
PARTIAL WEST ELEVATION 2
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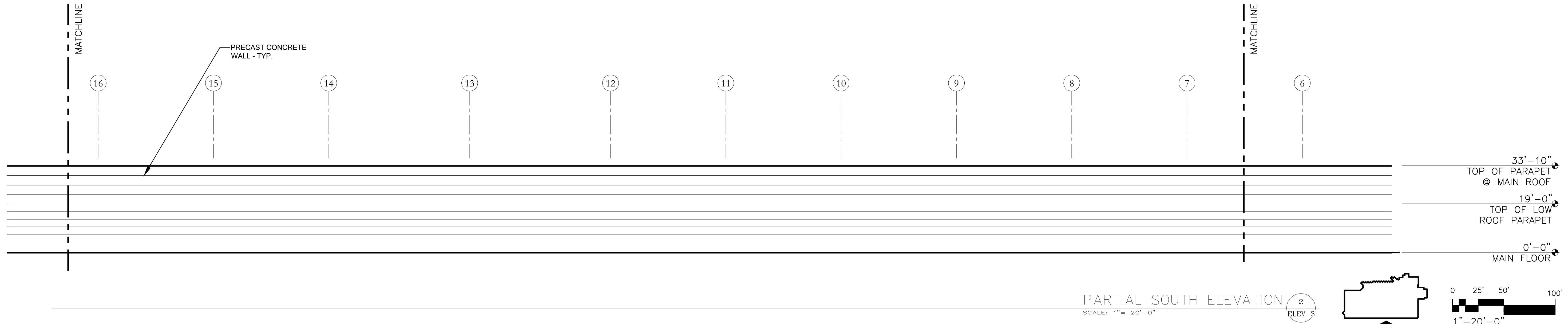
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SCALE: 1" = 20'-0"



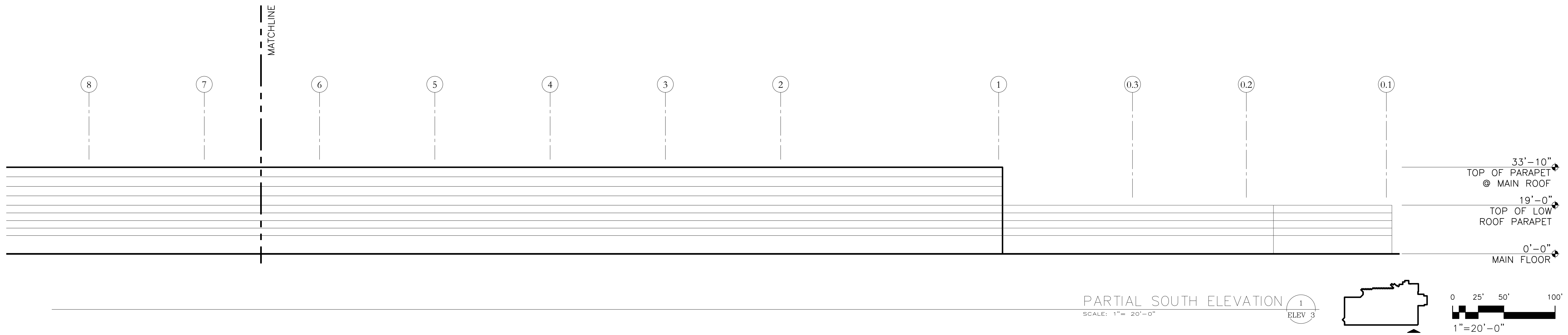
| | | | | |
|---|--|------------------|----------|----------|
| DRAWING NUMBER | ELEV 2 | | | |
| | DRAWING TITLE PARTIAL ELEVATION WINNIPEG TSG WEST ELEVATION | | | |
| PROJECT TITLE | WINNIPEG TRANSIT EAST GARAGE | | | |
| | PROJECT NO. | 189023 | | |
| | DRAWN BY | CDE | | |
| | DATE | 20190729 | | |
| | SCALE | 22x34 11 X 17 | 1" = 20' | 1" = 40' |
| WSP USA Inc. 16200 PARK ROW SUITE 200 HOUSTON, TEXAS 77084 TEL: (281) 589-5900 FAX: (281) 759-5164 | | | | |
| | | | | |



PARTIAL SOUTH ELEVATION 3
 SCALE: 1" = 20'-0"
 ELEV 3

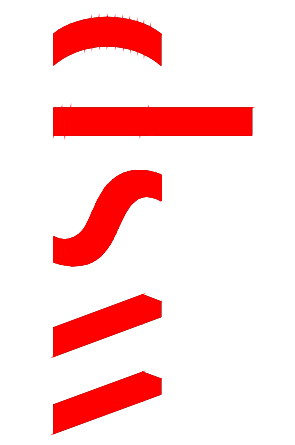


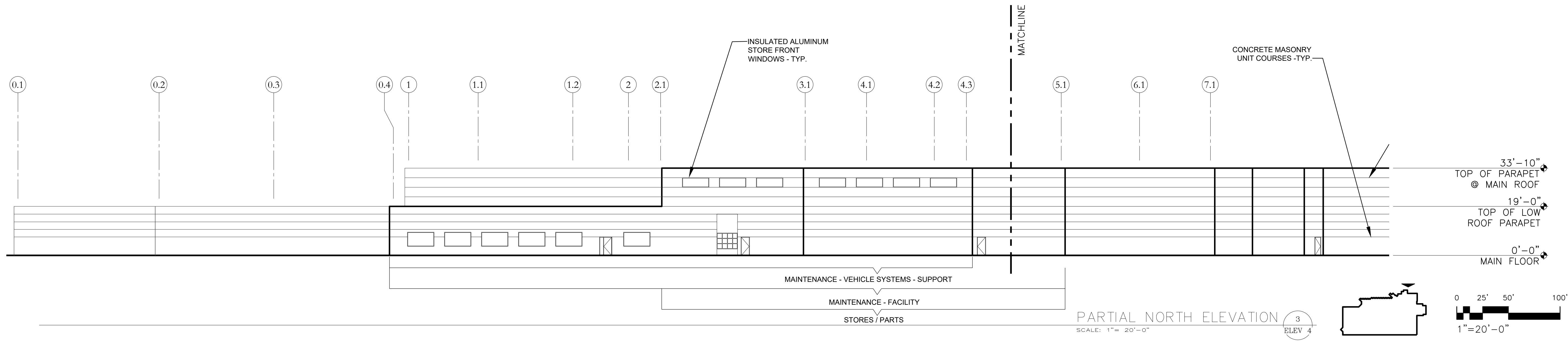
PARTIAL SOUTH ELEVATION 2
 SCALE: 1" = 20'-0"
 ELEV 3



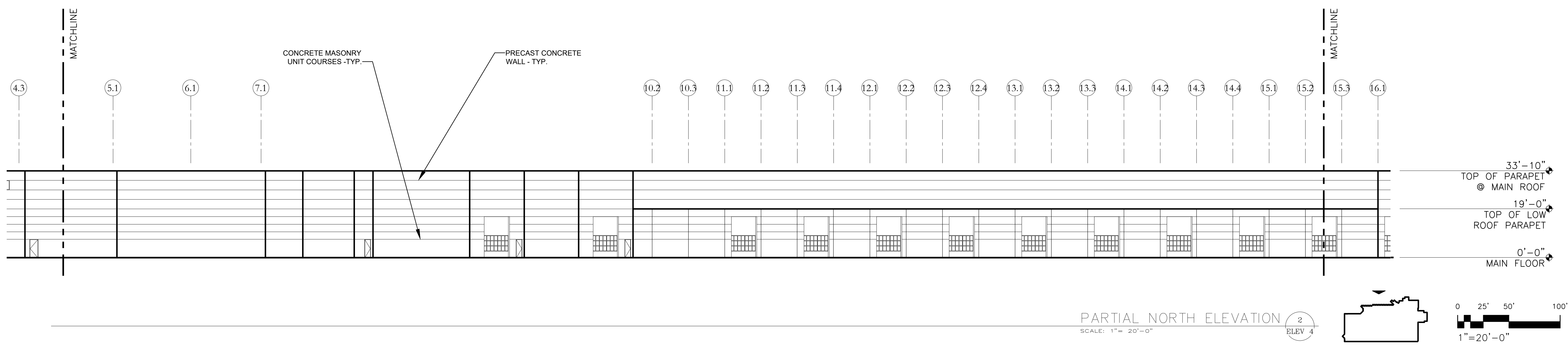
PARTIAL SOUTH ELEVATION 1
 SCALE: 1" = 20'-0"
 ELEV 3

| | |
|---|--|
| PROJECT NO. | 189023 |
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| DATE | 20190729 |
| SCALE | 22x34 1" = 20' 11 X 17 1" = 40' |
| PROJECT TITLE | WINNIPEG TRANSIT EAST GARAGE |
| DRAWING TITLE | PARTIAL ELEVATION WINNIPEG TSG SOUTH ELEVATION |
| DRAWING NUMBER | ELEV 3 |
| WSP USA Inc. 16200 PARK ROW SUITE 200 HOUSTON, TEXAS 77084 TEL: (281) 589-5900 FAX: (281) 759-5164 | |

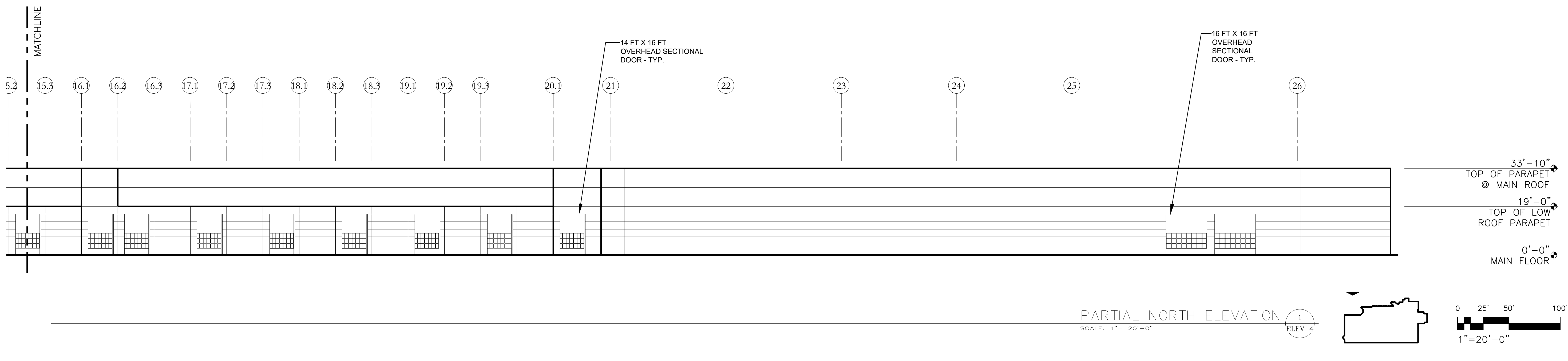




PARTIAL NORTH ELEVATION 3
SCALE: 1" = 20'-0"
ELEV 4

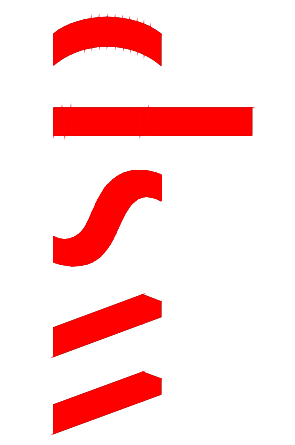


PARTIAL NORTH ELEVATION 2
SCALE: 1" = 20'-0"
ELEV 4



PARTIAL NORTH ELEVATION 1
SCALE: 1" = 20'-0"
ELEV 4

| | |
|---|--|
| PROJECT NO. | 189023 |
| DRAWN BY | CDE |
| DATE | 20190729 |
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| DRAWING NUMBER | ELEV 4 |
| DRAWING TITLE | PARTIAL ELEVATION WINNIPEG TSG NORTH ELEVATION |
| WSP USA Inc. 16200 PARK ROW SUITE 200 HOUSTON, TEXAS 77084 TEL: (281) 589-5900 FAX: (281) 759-5164 | |

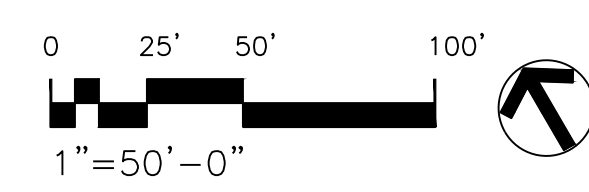
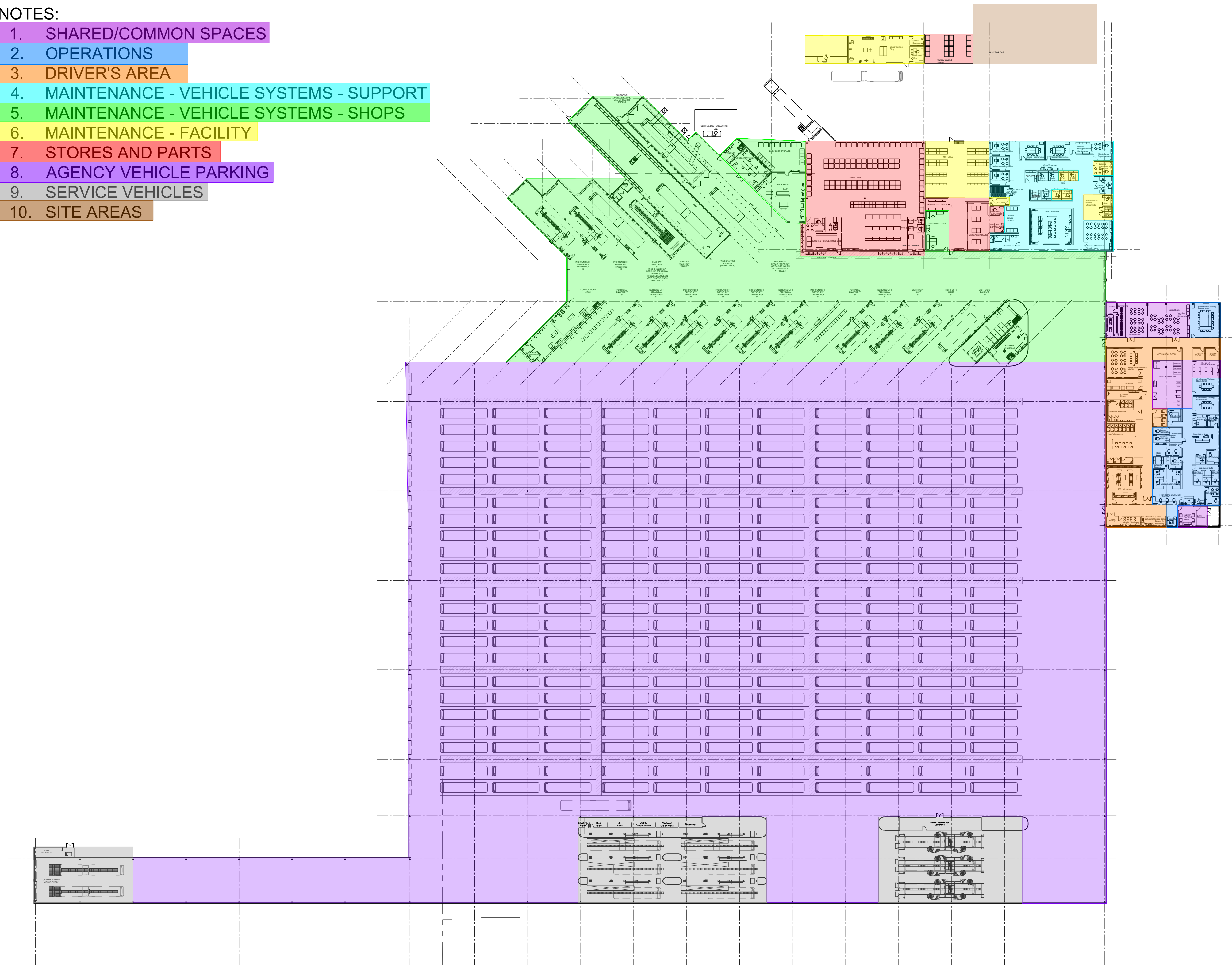


APPENDIX

C FLOOR PLANS

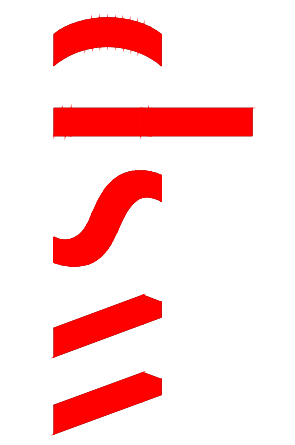
NOTES:

- 1. SHARED/Common SPACES
- 2. OPERATIONS
- 3. DRIVER'S AREA
- 4. MAINTENANCE - VEHICLE SYSTEMS - SUPPORT
- 5. MAINTENANCE - VEHICLE SYSTEMS - SHOPS
- 6. MAINTENANCE - FACILITY
- 7. STORES AND PARTS
- 8. AGENCY VEHICLE PARKING
- 9. SERVICE VEHICLES
- 10. SITE AREAS



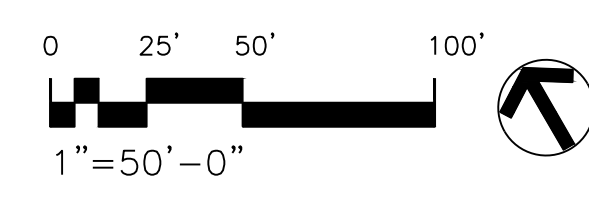
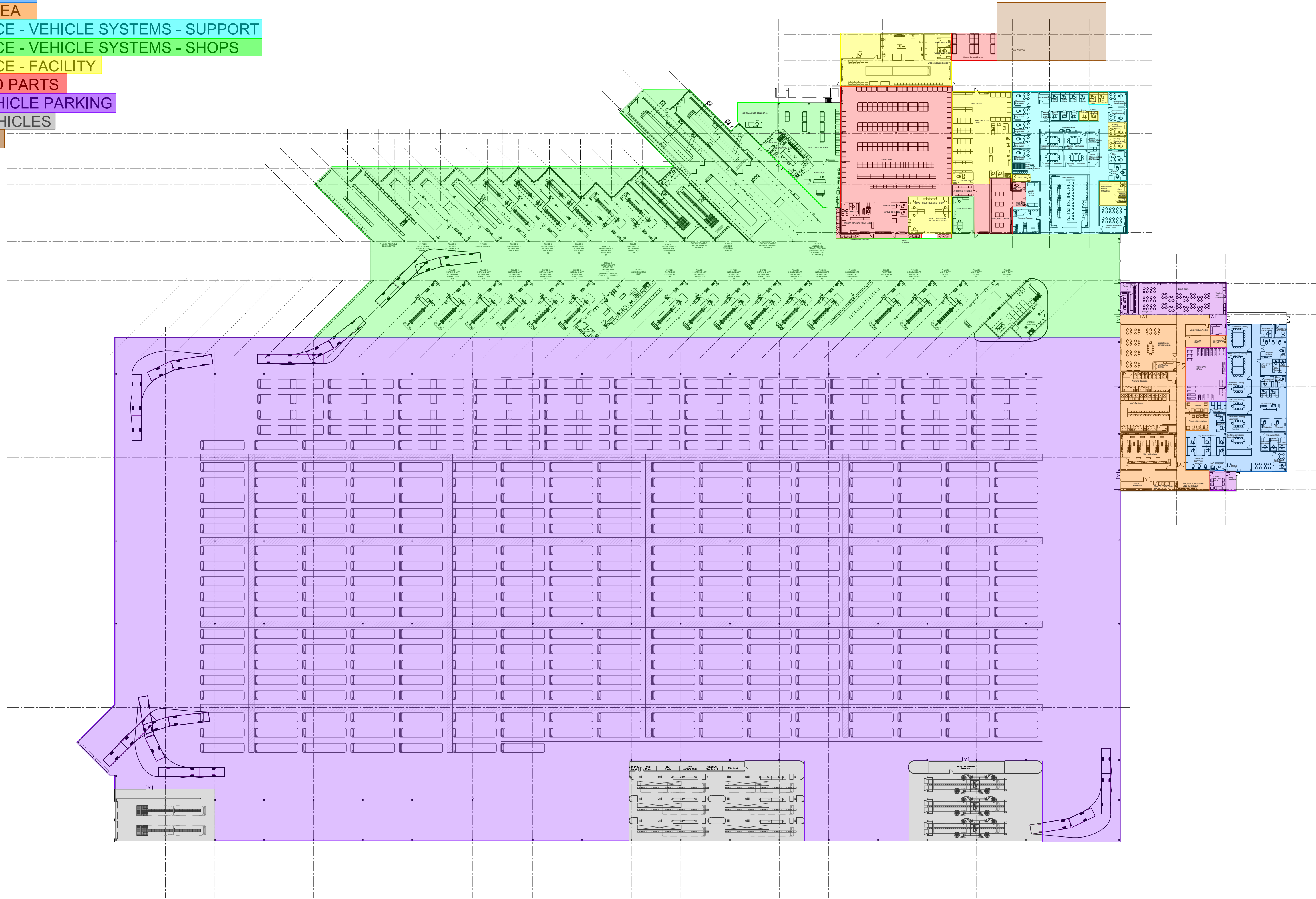
| | | | | | | | |
|----------------|--------|---------------|---|---------------|---------------------------------|-------------|---|
| DRAWING NUMBER | PLAN 1 | DRAWING TITLE | OVERALL PLAN WINNIPEG TSG PHASE 1 | PROJECT TITLE | WINNIPEG TRANSIT EAST GARAGE | PROJECT NO. | 189023 |
| | | | | | | DRAWN BY | CDE |
| | | | | | | DATE | 20190729 |
| | | | | | | SCALE | 22x34 1" = 50' 11 X 17 1" = 100' |

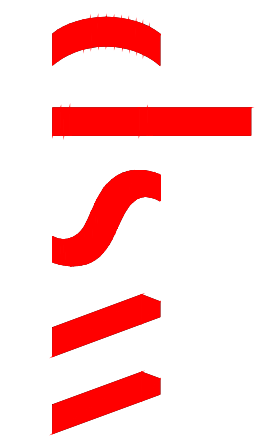
WSP USA Inc.
16200 PARK ROW
SUITE 200
HOUSTON, TEXAS 77084
TEL: (281) 589-5900
FAX: (281) 759-5164



NOTES:

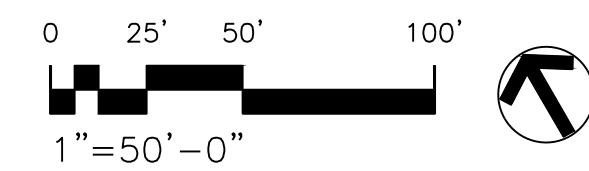
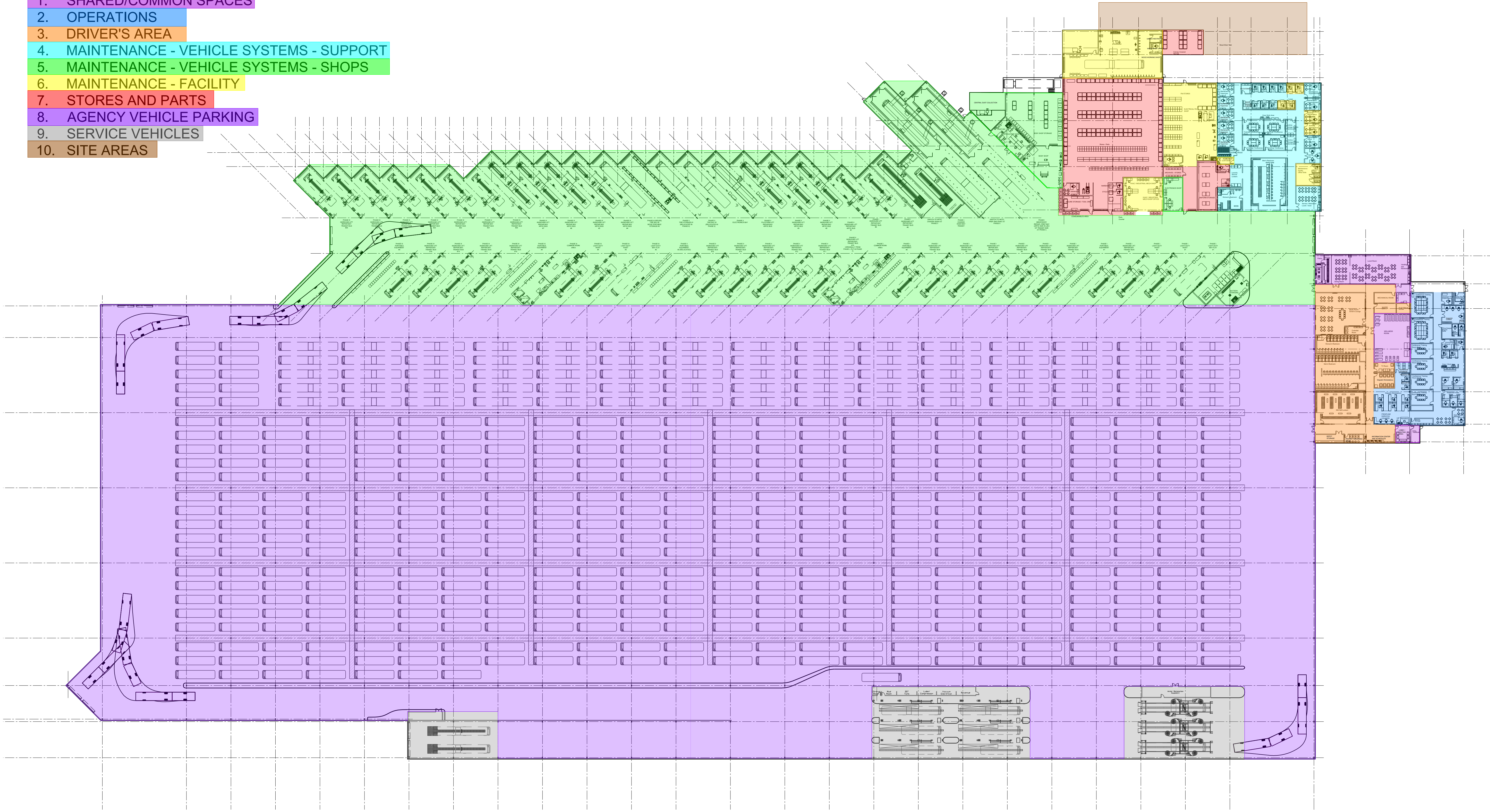
- 1. SHARED/Common SPACES
- 2. OPERATIONS
- 3. DRIVER'S AREA
- 4. MAINTENANCE - VEHICLE SYSTEMS - SUPPORT
- 5. MAINTENANCE - VEHICLE SYSTEMS - SHOPS
- 6. MAINTENANCE - FACILITY
- 7. STORES AND PARTS
- 8. AGENCY VEHICLE PARKING
- 9. SERVICE VEHICLES
- 10. SITE AREAS



| | | | | | | | |
|---|---|--|---------------|---------------------------------|-----|---|----------|
| DRAWING NUMBER | OVERALL PLAN WINNIPEG TSG PHASE 2 | | DRAWING TITLE | WINNIPEG TRANSIT EAST GARAGE | | PROJECT NO. | 189023 |
| | PLAN 2 | | | DRAWN BY | CDE | DATE | 20190729 |
|  | | | | | | WSP USA Inc. 16200 PARK ROW SUITE 200 HOUSTON, TEXAS 77084 TEL: (281) 589-5900 FAX: (281) 759-5164 | |

NOTES:

- 1. SHARED/Common SPACES
- 2. OPERATIONS
- 3. DRIVER'S AREA
- 4. MAINTENANCE - VEHICLE SYSTEMS - SUPPORT
- 5. MAINTENANCE - VEHICLE SYSTEMS - SHOPS
- 6. MAINTENANCE - FACILITY
- 7. STORES AND PARTS
- 8. AGENCY VEHICLE PARKING
- 9. SERVICE VEHICLES
- 10. SITE AREAS



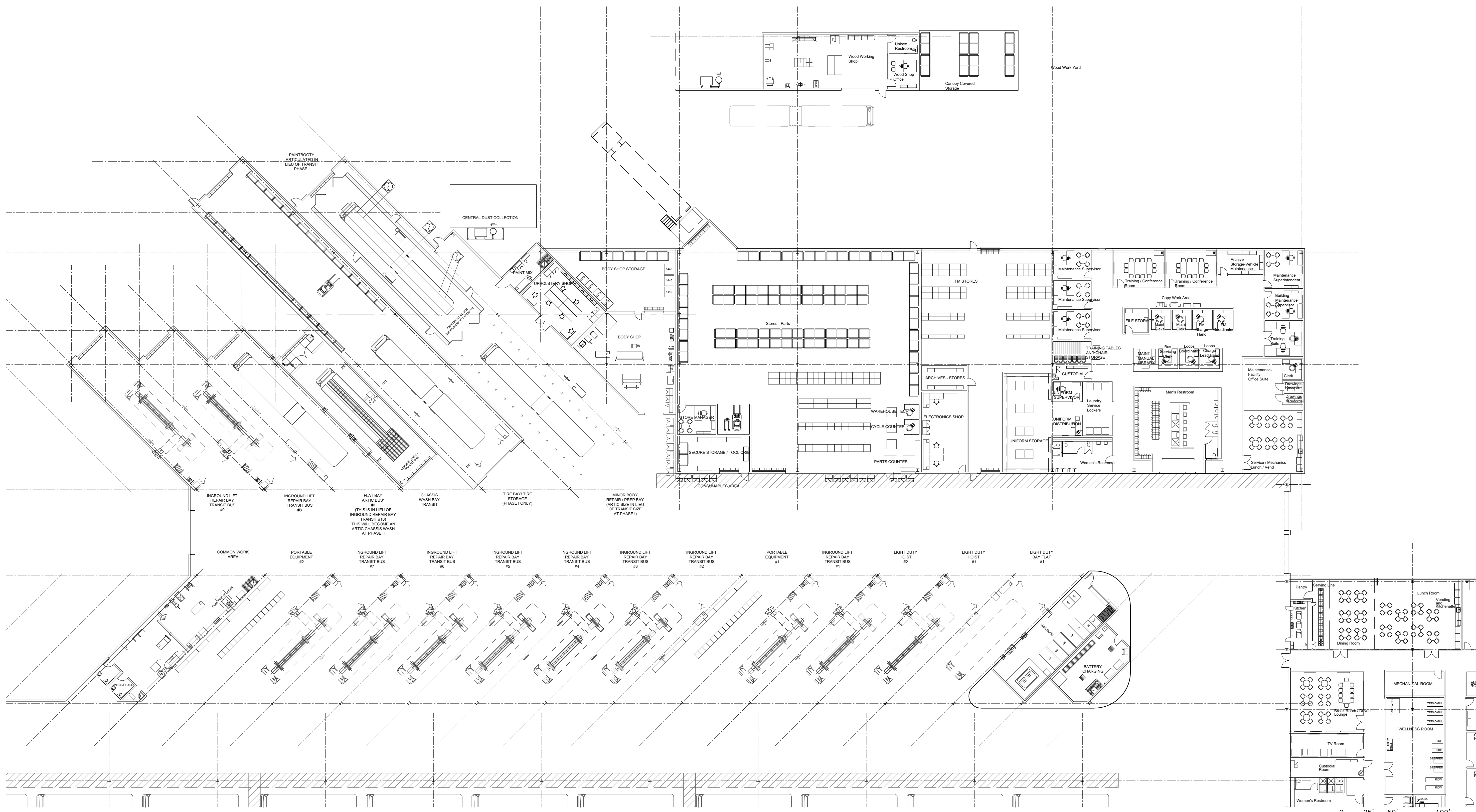
| | |
|-------------|---|
| PROJECT NO. | 189023 |
| DRAWN BY | CDE |
| DATE | 20190729 |
| SCALE | 22x34 1" = 50' 11 X 17 1" = 100' |

PROJECT TITLE
WINNIPEG TRANSIT EAST GARAGE

DRAWING TITLE
OVERALL PLAN
WINNIPEG TSG
ALL PHASES

WSP USA Inc.
16200 PARK ROW
SUITE 200
HOUSTON, TEXAS 77084
TEL: (281) 589-5900
FAX: (281) 759-5164

DRAWING NUMBER
PLAN 3



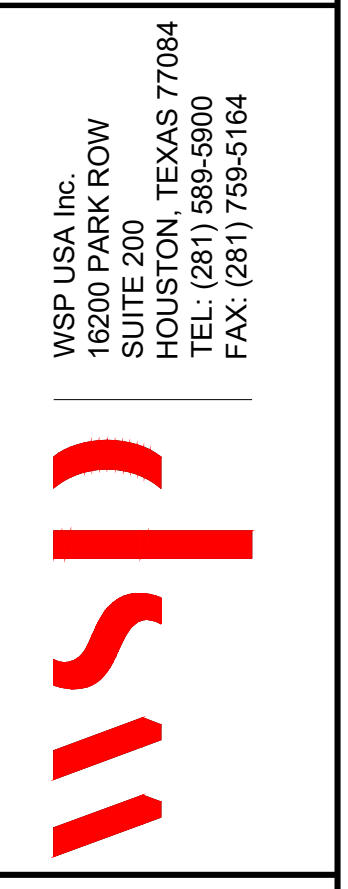
ENLARGED VEHICLE SYSTEMS SUPPORT, STORES, AND SHOPS
SCALE: 1" = 20'-0"

1
PLAN 1

| | |
|-------------|--|
| PROJECT NO. | 189023 |
| DRAWN BY | CDE |
| DATE | 20190729 |
| SCALE | 22x34 1" = 20' 11 X 17 1" = 40' |

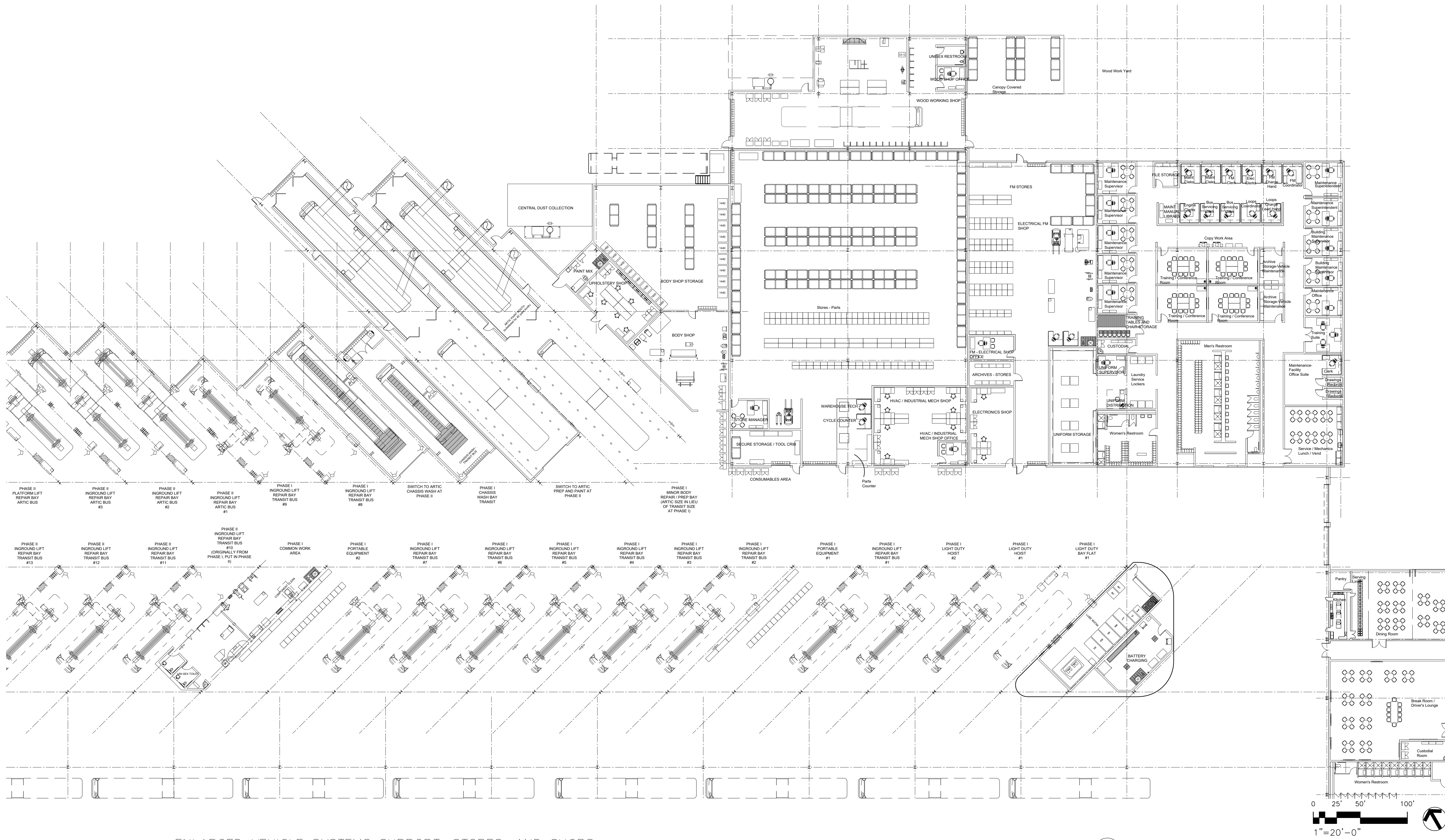
PROJECT TITLE
WINNIPEG TRANSIT EAST GARAGE

WSP USA Inc.
16200 PARK ROW
SUITE 200
HOUSTON, TEXAS 77084
TEL: (281) 589-5900
FAX: (281) 759-5164



DRAWING TITLE
**ENLARGED PLAN
WINNIPEG TSG
PHASE 1**

DRAWING NUMBER
PLAN 4



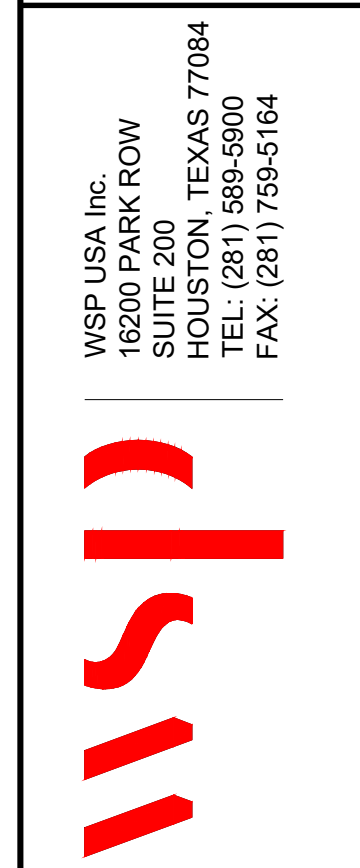
ENLARGED VEHICLE SYSTEMS SUPPORT, STORES, AND SHOPS
SCALE: 1" = 20'-0"

1
PLAN 1

| | |
|-------------|--|
| PROJECT NO. | 189023 |
| DRAWN BY | CDE |
| DATE | 20190729 |
| SCALE | 22x34 1" = 20' 11 X 17 1" = 40' |

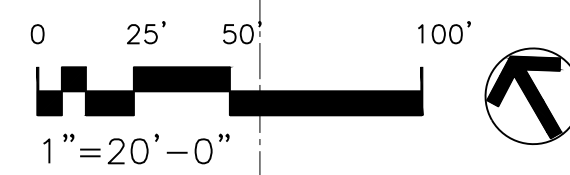
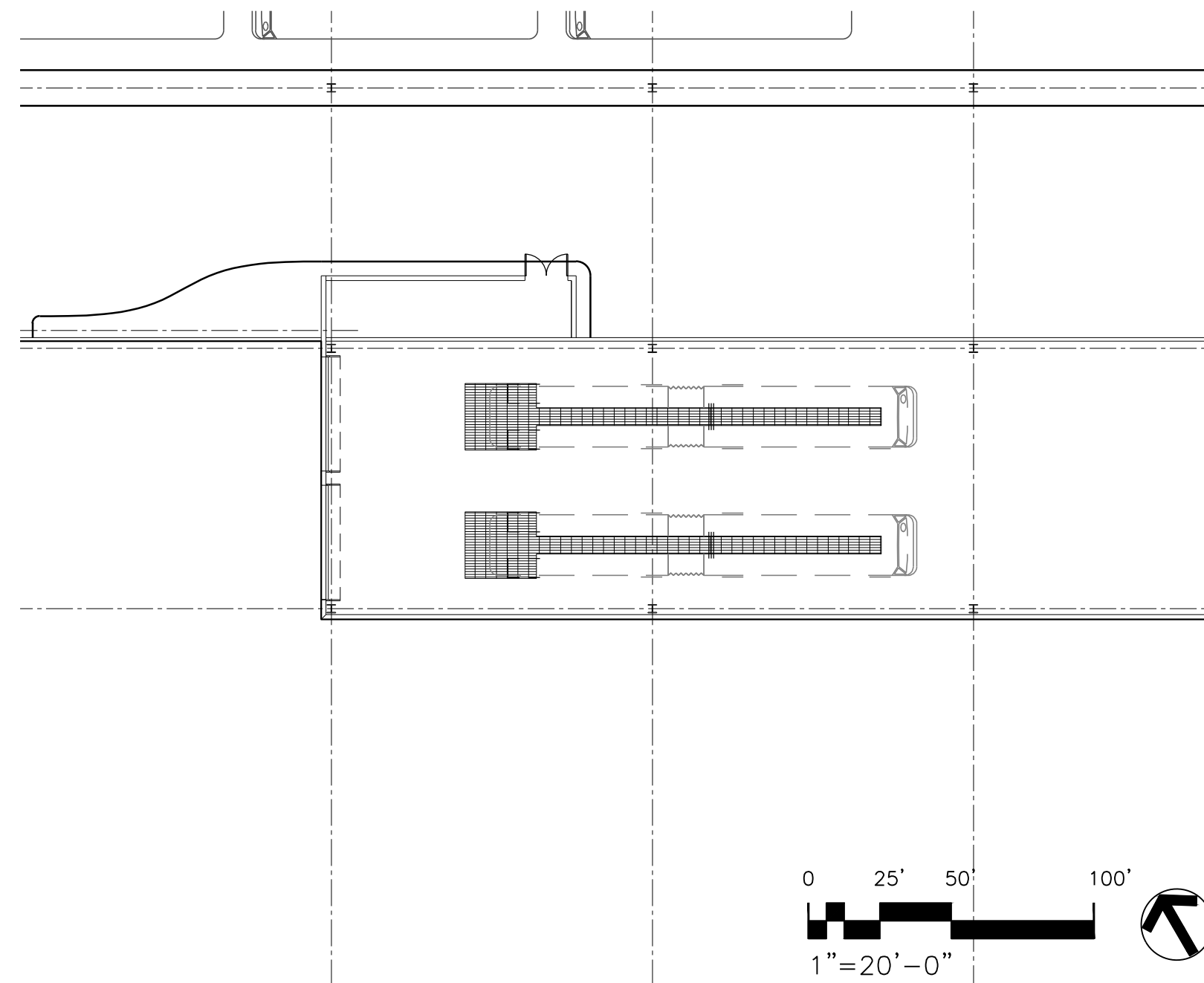
PROJECT TITLE
WINNIPEG TRANSIT EAST GARAGE

WSP USA Inc.
16200 PARK ROW
SUITE 200
HOUSTON, TEXAS 77084
TEL: (281) 589-5900
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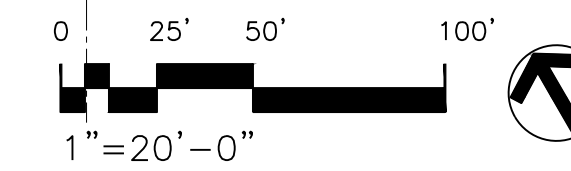
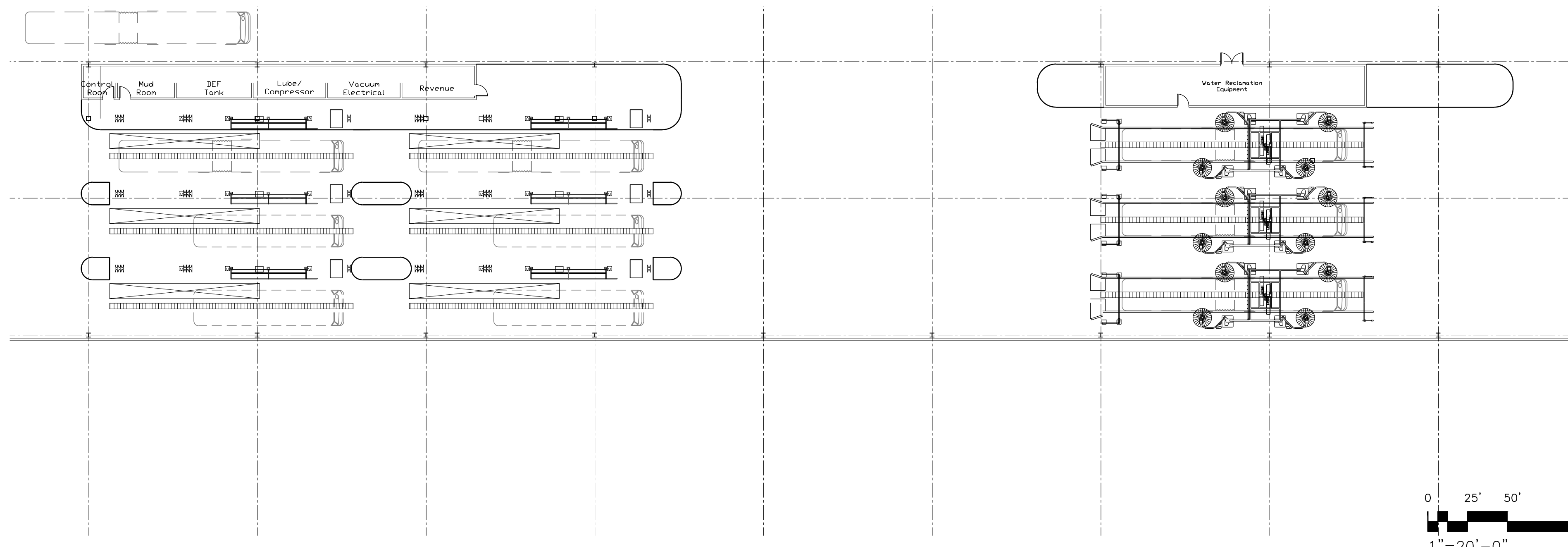
DRAWING TITLE
**ENLARGED PLAN
WINNIPEG TSG
ALL PHASES**

DRAWING NUMBER
PLAN 5



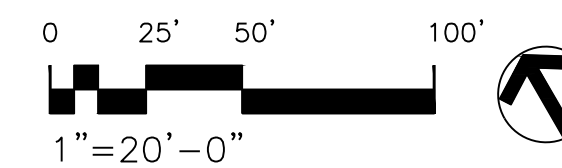
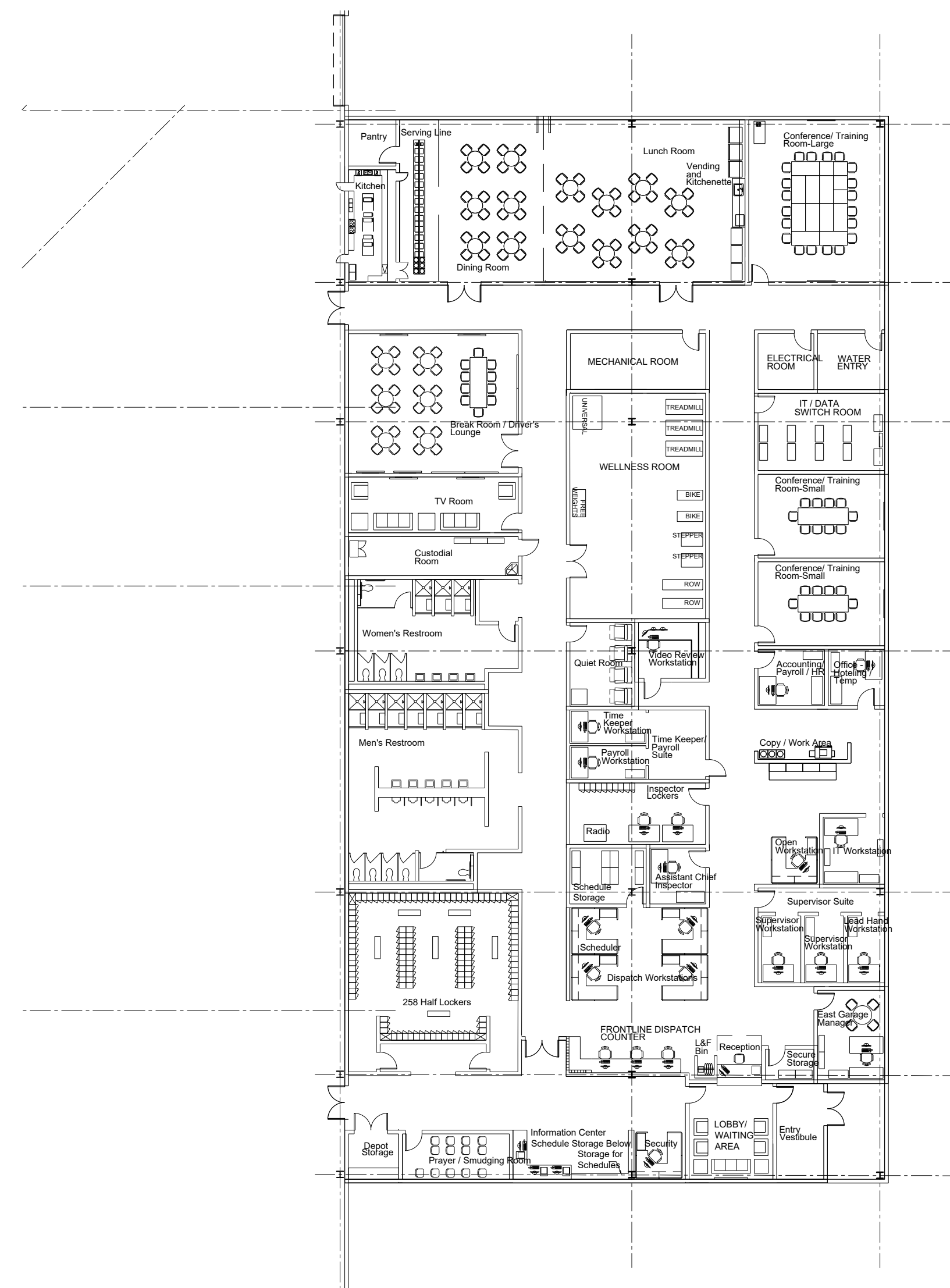
ENLARGED CHASSIS WASH
SCALE: 1" = 20'-0"

2
PLAN3



ENLARGED FUEL AND WASH
SCALE: 1" = 20'-0"

1
PLAN3



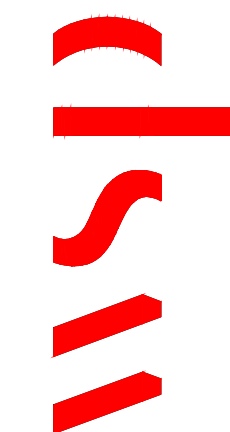
ENLARGED DRIVER'S AREA AND OPERATIONS
SCALE: 1" = 20'-0"

3
PLAN3

| | |
|-------------|--|
| PROJECT NO. | 189023 |
| DRAWN BY | CDE |
| DATE | 20190729 |
| SCALE | 22x34 11 X 17 1" = 20' 1" = 40' |

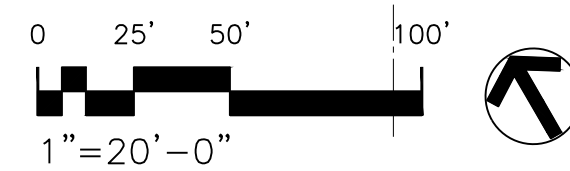
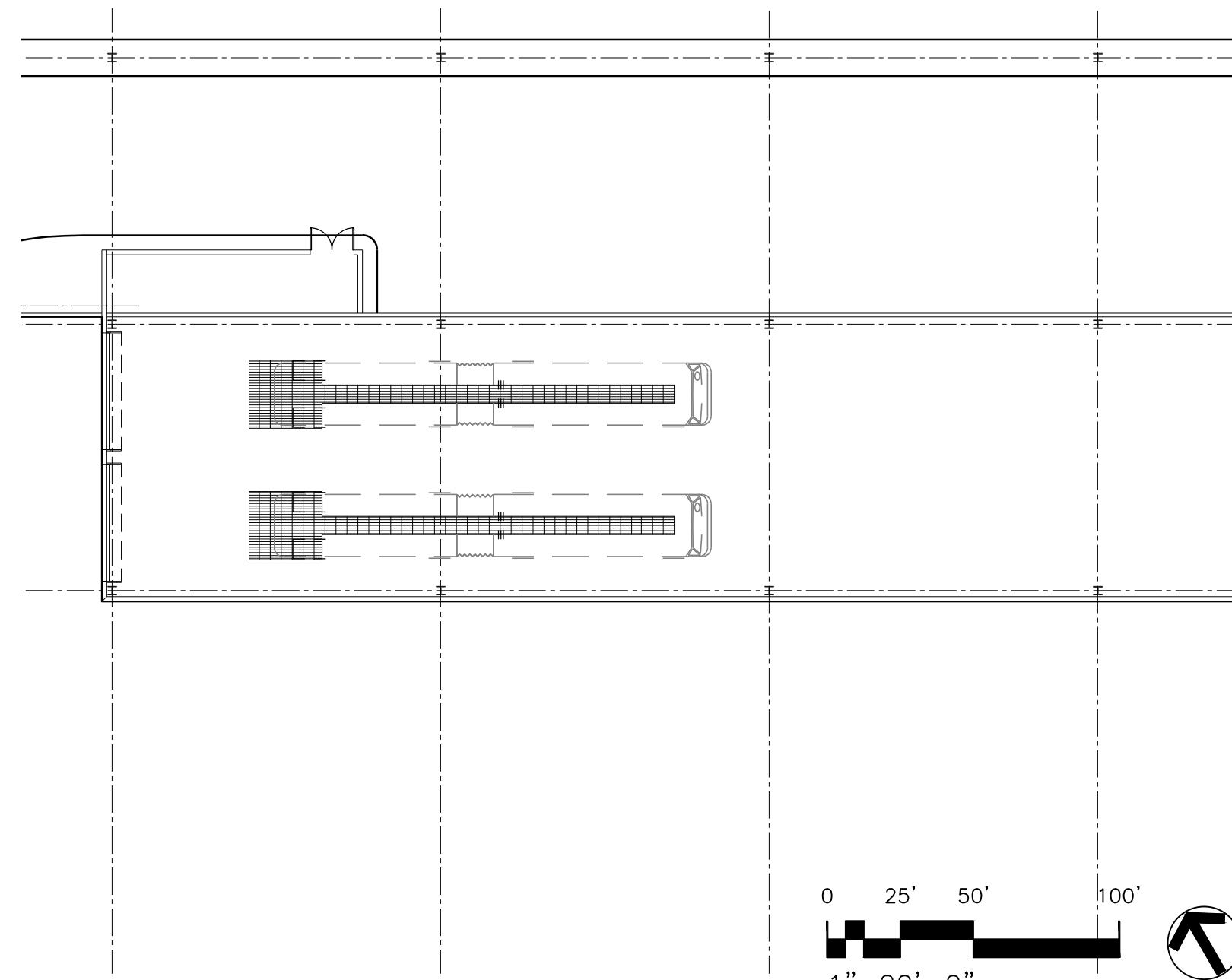
PROJECT TITLE
WINNIPEG TRANSIT EAST GARAGE

WSP USA Inc.
16200 PARK ROW
SUITE 200
HOUSTON, TEXAS 77084
TEL: (281) 589-5900
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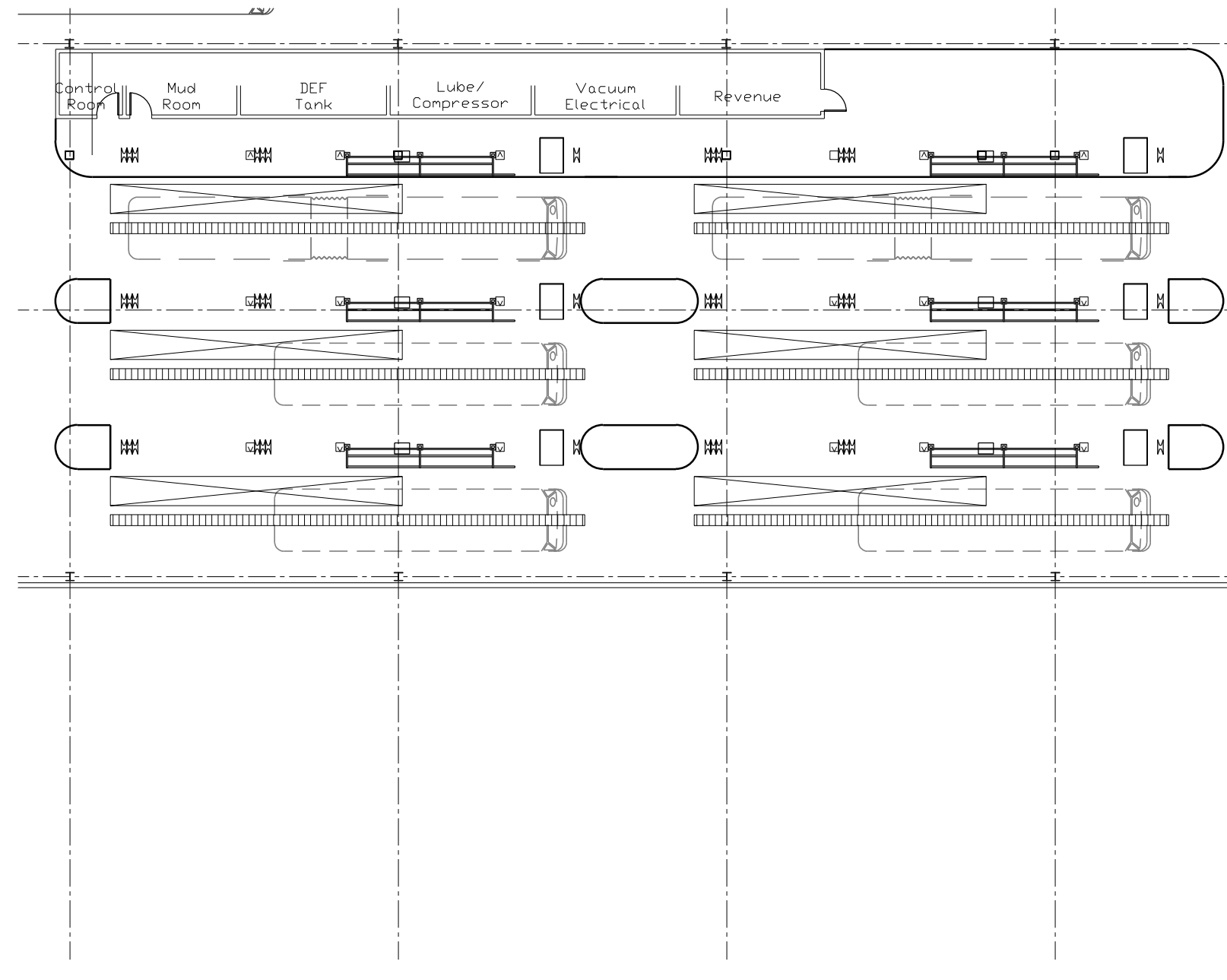


DRAWING TITLE
**PARTIAL PLANS
WINNIPEG TSG
PHASE 1**

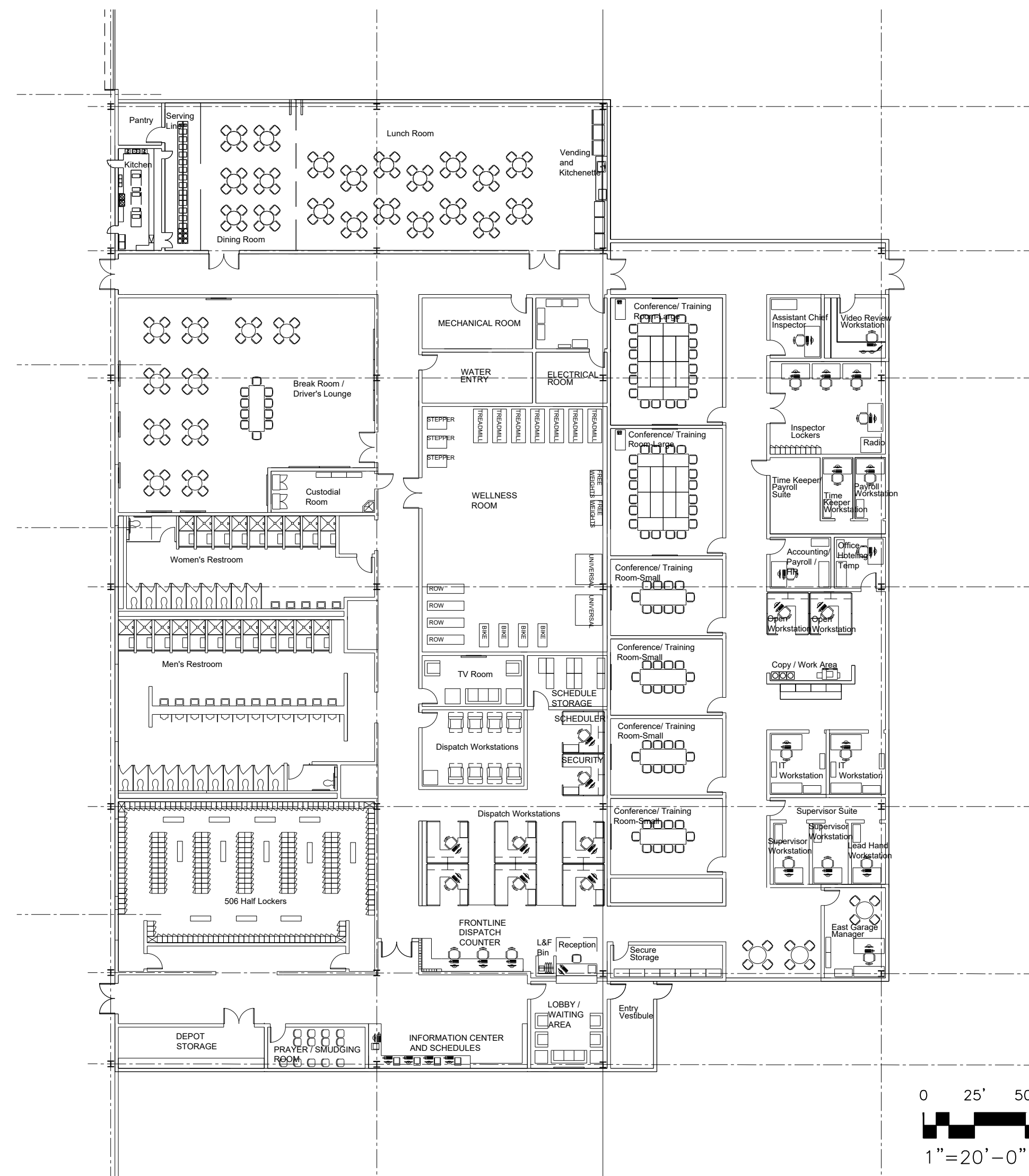
DRAWING NUMBER
PLAN 6



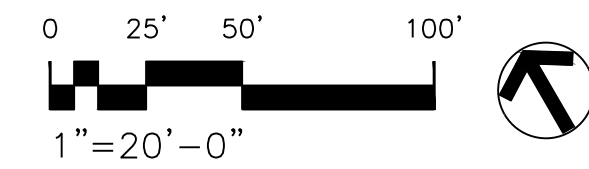
2
PLAN3



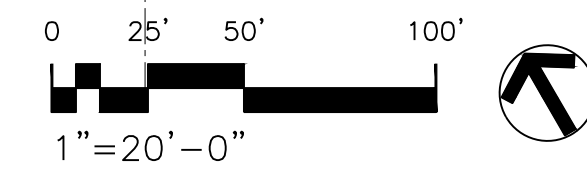
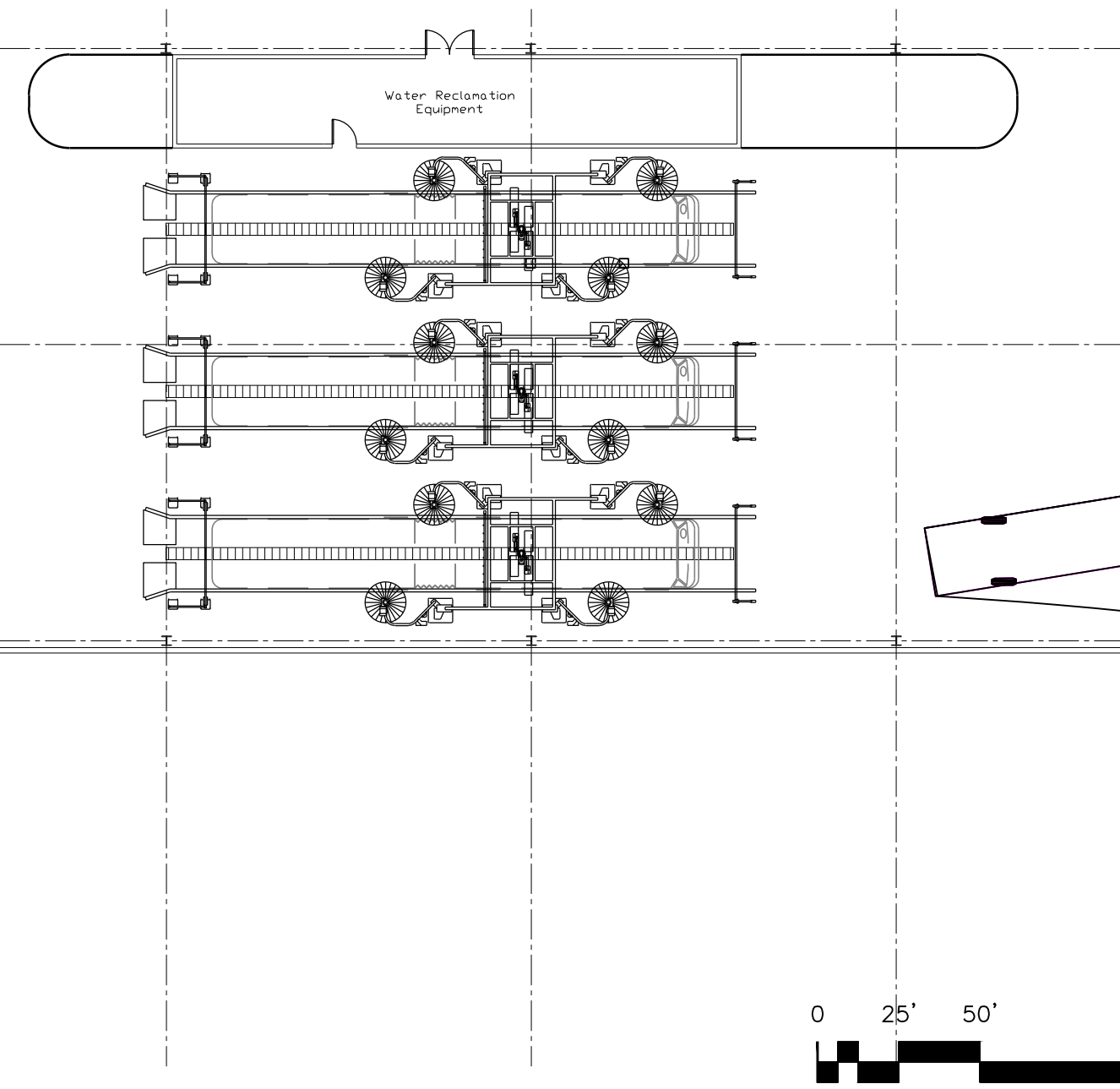
ENLARGED FUEL AND WASH
SCALE: 1" = 20'-0"



ENLARGED DRIVER'S AREA AND OPERATIONS
SCALE: 1" = 20'-0"



3
PLAN3



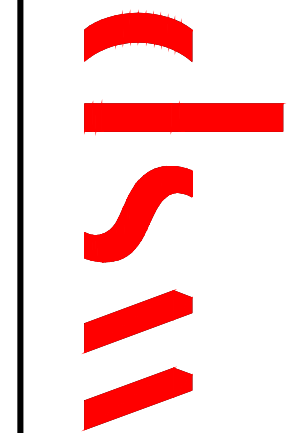
1
PLAN3

ENLARGED CHASSIS WASH
SCALE: 1" = 20'-0"

| | |
|-------------|--|
| PROJECT NO. | 189023 |
| DRAWN BY | CDE |
| DATE | 20190729 |
| SCALE | 22x34 1" = 20' 11 X 17 1" = 40' |

PROJECT TITLE
**WINNIPEG TRANSIT EAST
GARAGE**

WSP USA Inc.
16200 PARK ROW
SUITE 200
HOUSTON, TEXAS 77084
TEL: (281) 569-5900
FAX: (281) 759-5164



DRAWING TITLE
**PARTIAL PLANS
WINNIPEG TSG
ALL PHASES**

DRAWING NUMBER
PLAN 7

D EQUIPMENT LIST

PRELIMINARY EQUIPMENT LIST
City of Winnipeg Transit Satellite Garage

PHASE 1

Eastern Corridor Study

Aug-19

OF : Owner Furnished
 OI : Owner Installed

GCF : General Contractor Furnished
 GCI : General Contractor Installed

| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|------|-------------|-------|-----|-----|-----------|------|------|------|---------|
|------|-------------|-------|-----|-----|-----------|------|------|------|---------|

MAINTENANCE - SHOPS

In-Ground Lift Repair Bays (Articulated Bus- 0 Bays)

Subtotal \$ -

In-Ground Lift Repair Bays (Transit Bus - 9 Bays)

| | | | | | | | | | |
|-----------------|---|------|----|-----------|---------------|---|-------|-----|--|
| 2835 | Vise, combination, swivel base, 6" | 2050 | 9 | 2050 | 10x16 | | CF-CI | TBD | Bench mounted |
| 1860 | Workbench, severe use | 2700 | 9 | 2700 | 72x32 | | CF-CI | TBD | Fabricated |
| 3304 | Reel, vehicle exhaust, motor operated, w/ 6" hose | 8200 | 9 | 8200 | 60x30 | * | CF-CI | TBD | 800cfm at source; 1200F max; 7.5"wc (reel); Ducted to outside. Single drop fan included. Non-bus diesel use. 240 lbs. |
| 8740 | Reel bank (pick 4) | 8140 | 9 | 8140 | | * | CF-CI | TBD | Plumbed to Lube Room. 100 lbs per reel. |
| 8190 | Drops, air/electric, trapeze | 1600 | 18 | 3200 | 24x6 | * | CF-CI | TBD | Quadraplex receptacle, quick disconnect for 3/8" & 1/2" impact drives |
| 3560 | Tank, parts cleaning, solvent, medium | 3500 | 9 | 31,500 | 42x30 | | CF-CI | TBD | |
| Subtotal | | | | \$ | 55,790 | | | | |

Platform Lift Repair Bay (Articulated Bus)

| | | | | | | | | | |
|-----------------|---|------|---|-----------|---------------|---|-------|-----|--|
| 2835 | Vise, combination, swivel base, 6" | 2050 | 1 | 2050 | 10x16 | | CF-CI | TBD | Bench mounted |
| 1860 | Workbench, severe use | 2700 | 1 | 2700 | 72x32 | | CF-CI | TBD | Fabricated |
| 3304 | Reel, vehicle exhaust, motor operated, w/ 6" hose | 8200 | 1 | 8200 | 60x30 | * | CF-CI | TBD | 800cfm at source; 1200F max; 7.5"wc (reel); Ducted to outside. Single drop fan included. Non-bus diesel use. 240 lbs. |
| 8720 | Reel bank (pick 2) | 4070 | 1 | 4070 | | * | CF-CI | TBD | Plumbed to Lube Room. 100 lbs per reel. |
| 8740 | Reel bank (pick 4) | 8140 | 1 | 8140 | | * | CF-CI | TBD | Plumbed to Lube Room. 100 lbs per reel. |
| 8190 | Drops, air/electric, trapeze | 1600 | 2 | 3200 | 24x6 | * | CF-CI | TBD | Quadraplex receptacle, quick disconnect for 3/8" & 1/2" impact drives |
| 3560 | Tank, parts cleaning, solvent, medium | 3500 | 1 | 3,500 | 42x30 | | CF-CI | TBD | |
| Subtotal | | | | \$ | 31,860 | | | | |

PRELIMINARY EQUIPMENT LIST
City of Winnipeg Transit Satellite Garage

PHASE 1

Eastern Corridor Study

Aug-19

OF : Owner Furnished

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GCI : General Contractor Installed

| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|--|--|-------|-----|-------------------|-----------|------|-------|------|---|
| Light Duty Bay Flat (Transit Bus) | | | | | | | | | |
| 1860 | Workbench, severe use | 2700 | 1 | 2700 | 72x32 | | CF-CI | TBD | Fabricated |
| 8190 | Drops, air/electric, trapeze | 1600 | 2 | 3200 | 24x6 | * | CF-CI | TBD | Quadraplex receptacle, quick disconnect for 3/8" & 1/2" impact drives |
| 2832 | Vise, combination, swivel base, 5" | 1240 | 1 | 1240 | 8x14 | | CF-CI | TBD | Bench mounted |
| 8740 | Reel bank (pick 4) | 8140 | 1 | 8140 | | * | CF-CI | TBD | Plumbed to Lube Room. 100 lbs per reel. |
| 8720 | Reel bank (GO1, GO2) | 2780 | 1 | 2780 | | * | CF-CI | TBD | Plumbed to Lube Room. 100 lbs per reel. |
| 3560 | Tank, parts cleaning, solvent, medium | 3500 | 1 | 3500 | 42x30 | | CF-CI | TBD | |
| 1130 | Cabinet, 9 drawer, 59" | 2170 | 1 | 2170 | 26x24 | | CF-CI | TBD | Casters available. Add \$120 for casters |
| 3304 | Reel, vehicle exhaust, motor operated, w/ 6" hose | 8200 | 1 | 8200 | 60x30 | * | CF-CI | TBD | |
| | Subtotal | | | \$ 31,930 | | | | | |
| Portable Equipment (2) | | | | | | | | | |
| 1113 | Cabinet, 9 drawer, 59" | 3110 | 32 | 130620 | 30x28 | | CF-CI | TBD | Lockable. Credit \$530 if overhead cabinet not used. |
| 1456 | Rack, bulk storage, w/ deck | 1400 | 18 | 14000 | 72x24 | | CF-CI | TBD | |
| | Subtotal | | | \$ 144,620 | | | | | |
| Electronics Bay | | | | | | | | | |
| | Subtotal | | | \$ - | | | | | |
| Electronics Shop | | | | | | | | | |
| 1456 | Rack, bulk storage, w/ deck | 1400 | 1 | 1400 | 72x24 | | CF-CI | TBD | |
| 1800 | Workbench, electronics, anti-static top, 2 cabinet | 4200 | 3 | 12600 | 72x30 | | CF-CI | TBD | |
| 1802 | Workbench, electronics, anti-static top, 6 ft. | 1730 | 3 | 5190 | 72x30 | | CF-CI | TBD | |
| 2832 | Vise, combination, swivel base, 5" | 1240 | 3 | 3720 | 8x14 | | CF-CI | TBD | Bench mounted |
| 1185 | Cabinet, storage, shop, 18" | 970 | 2 | 1940 | 36x18 | | CF-CI | TBD | |
| 1752 | Chair, shop | 680 | 3 | 2040 | 20D | | CF-CI | TBD | Includes 5 hard floor casters |
| | Subtotal | | | \$ 26,890 | | | | | |

PRELIMINARY EQUIPMENT LIST
City of Winnipeg Transit Satellite Garage

PHASE 1

Eastern Corridor Study

Aug-19

OF : Owner Furnished

GCF : General Contractor Furnished

OI : Owner Installed

GCI : General Contractor Installed

| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|-------------------------|--|-------|-----|-------------------|---------------------------|------|-------|------|---|
| Common Work Area | | | | | | | | | |
| 1420 | Rack, arm, single face, 7' high | 1380 | 2 | 2760 | 36x22 | | CF-CI | TBD | Add \$500 per add-on. Add \$420 per rack end. |
| 1080 | Bin unit, hose/line | 2670 | 1 | 2670 | 36x36 | | CF-CI | TBD | Add \$2860 per add-on |
| 1860 | Workbench, severe use | 2700 | 3 | 8100 | 72x32 | | CF-CI | TBD | Fabricated |
| 6330 | Crimper, hydraulic hose, bench mounted | 9130 | 1 | 9130 | 8x22 | | CF-CI | TBD | |
| 2708 | Saw, cut-off, abrasive/mitering, 16"-18" | 4800 | 1 | 4800 | 30x33 | | CF-CI | TBD | |
| 1140 | Cabinet, flammable materials, large | 1600 | 1 | 1600 | 43x18 | | CF-CI | TBD | 45 gallon capacity |
| 3080 | Cabinet, abrasive blast, medium, w/ dust collector | 11100 | 1 | 11100 | 56x88, 30x38 | | CF-CI | TBD | 50"x39"x43" interior working dimensions |
| 2433 | Milling machine, vertical | 30000 | 1 | 30000 | 80x64 | | CF-CI | TBD | |
| 2085 | Buffer/grinder, 8", w/ pedestal | 5240 | 1 | 5240 | 22x11 | | CF-CI | TBD | |
| 2690 | Saw, band, combination, vert./horiz. | 4010 | 1 | 4010 | 54x26 | | CF-CI | TBD | Portable |
| 5074 | Crane, bridge, suspended, 1 ton | 28160 | 1 | 28160 | | * | CF-CI | TBD | |
| 2248 | Dust collector, brake lathe, 2 point | 31000 | 1 | 31000 | 22x49, 10x15, 36x24 | | CF-CI | TBD | Includes wall-mounted pre-separator; simultaneous 2 point operation. Hood assembly included |
| 3785 | Washer, parts, jet spray, small | 17850 | 1 | 17850 | 42x53 | | CF-CI | TBD | 500 lb load capacity, 25"D by 18"H working dimensions |
| 9400 | Handwash station, shop | 1200 | 1 | 1200 | 36x24 | | CF-CI | TBD | |
| 9820 | Shower, drench, w/ eyewash | 2865 | 1 | 2865 | 14x34 | * | CF-CI | TBD | |
| 3560 | Tank, parts cleaning, solvent, medium | 3500 | 1 | 3500 | 42x30 | | CF-CI | TBD | |
| 2832 | Vise, combination, swivel base, 5" | 1240 | 2 | 2480 | 8x14 | | CF-CI | TBD | Bench mounted |
| 1588 | Rack, pick, 66 drawer | 1320 | 1 | 1320 | 36x15 | | CF-CI | TBD | |
| 2540 | Press, manual/hydraulic, 25 ton | 6280 | 1 | 6280 | 40.5x30x76 | | CF-CI | TBD | Single acting, spring return 54.5" vert clr, 29" horz clr |
| 2564 | Press, arbor, ratchet, 5 ton, ped. mtd. | 4450 | 1 | 4450 | 18x29 | | CF-CI | TBD | |
| | Subtotal | | | \$ 178,515 | | | | | |

PRELIMINARY EQUIPMENT LIST
City of Winnipeg Transit Satellite Garage

PHASE 1

Eastern Corridor Study

Aug-19

OF : Owner Furnished

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OI : Owner Installed

GCI : General Contractor Installed

| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|---|---|--------|-----|-------------------|-----------|------|-------|------|---|
| Tire Bay | | | | | | | | | |
| 1860 | Workbench, severe use | 2700 | 1 | 2700 | 72x32 | | CF-CI | TBD | Fabricated |
| 2832 | Vise, combination, swivel base, 5" | 1240 | 1 | 1240 | 8x14 | | CF-CI | TBD | Bench mounted |
| 8190 | Drops, air/electric, trapeze | 1600 | 2 | 3200 | 24x6 | * | CF-CI | TBD | Quadraplex receptacle, quick disconnect for 3/8" & 1/2" impact drives |
| 8710 | Reel bank (WWS) | 1600 | 2 | 3200 | | * | CF-CI | TBD | Plumbed to Lube Room. 100 lbs per reel. |
| | Subtotal | | | \$ 10,340 | | | | | |
| Tire Storage | | | | | | | | | |
| 1640 | Rack, tire, stackable | 430 | 32 | 13760 | 60x26 | | CF-CI | TBD | 4 tires per rack, based on B305/85R22.5 size or, 6 standard auto type tires |
| | Subtotal | | | \$ 13,760 | | | | | |
| Minor Body Repair / Prep Bay (Articulated Bus (1)) | | | | | | | | | |
| 1860 | Workbench, severe use | 2700 | 1 | 2700 | 72x32 | | CF-CI | TBD | Fabricated |
| 2832 | Vise, combination, swivel base, 5" | 1240 | 1 | 1240 | 8x14 | | CF-CI | TBD | Bench mounted |
| 6050 | Anchor, floor, cast-in | 250 | 30 | 7500 | 9x6 | * | CF-CI | TBD | Installed during floor construction. Add \$210 for floor anchor turret #532. |
| 8190 | Drops, air/electric, trapeze | 1600 | 2 | 3200 | 24x6 | * | CF-CI | TBD | Quadraplex receptacle, quick disconnect for 3/8" & 1/2" impact drives |
| | Subtotal | | | \$ 14,640 | | | | | |
| Paint Booth articulated bus (1) | | | | | | | | | |
| 5555 | Lift, man, pneumatic, paint booth | 32330 | 1 | 32330 | 48x36 | | CF-CI | TBD | 60' min booth for a 45' bus. Price for one unit only. Wash Bay options available. Confirm accessories with paint booth type. |
| 6111 | Booth, paint, vehicle, down-draft, artic | 377000 | 1 | 377000 | 21'x81' | * | CF-CI | TBD | +\$79,000 heated AMU + ducts +82,000 two pneum manlifts +4,000 two fall prot +5,000 two breathable air units. Roof supports for AMU; Slab leavouts Does not include installation |
| 6232 | Filtration system, breathing air, grade D, four respirator capacity | 3000 | 1 | 3000 | 18x6 | | CF-CI | TBD | 4 hood type respirators, max Filters compressed air to Grade D breathable air |
| | Subtotal | | | \$ 412,330 | | | | | |

PRELIMINARY EQUIPMENT LIST
City of Winnipeg Transit Satellite Garage

PHASE 1

Eastern Corridor Study

Aug-19

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| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|--------------------------------|--|-------|-----|------------------|-----------------|------|-------|------|--|
| Paint Mix | | | | | | | | | |
| 1860 | Workbench, severe use | 2700 | 1 | 2700 | 72x32 | | CF-CI | TBD | Fabricated |
| 1140 | Cabinet, flammable materials, large | 1600 | 1 | 1600 | 43x18 | | CF-CI | TBD | 45 gallon capacity |
| 9400 | Handwash station, shop | 1200 | 1 | 1200 | 36x24 | | CF-CI | TBD | |
| 9820 | Shower, drench, w/ eyewash | 2865 | 1 | 2865 | 14x34 | * | CF-CI | TBD | Free-standing unit. Includes tempered water metering valve. +\$225 for SS shower head. +\$125 for foot control. |
| 2832 | Vise, combination, swivel base, 5" | 1240 | 1 | 1240 | 8x14 | | CF-CI | TBD | Bench mounted |
| 1185 | Cabinet, storage, shop, 18" | 970 | 1 | 970 | 36x18 | | CF-CI | TBD | |
| 3788 | Washer, paint spray equipment, solvent type, automatic | 3080 | 1 | 3080 | 18x14 | | CF-CI | TBD | Can be connected to solvent recycler for automatic transfer. Price does not include Recycler |
| 6670 | Shaker, paint, industrial, air operated | 4240 | 1 | 4240 | 19x33 | | CF-CI | TBD | |
| | Subtotal | | | \$ 17,895 | | | | | |
| Central Dust Collection | | | | | | | | | |
| 2240 | Dust collection system, central, shop, woodworking | 47300 | 1 | 47300 | 49x22, 28x25 | | CF-CI | TBD | Includes pre-separator w/ stand; 3 active station operation; Add \$58,000 for fire suppression & expl vent INSTALL OUTDOORS USE SMALLER INDIVIDUAL DUST COLLECTOR INSTEAD UNITS WHERE POSSIBLE |
| | Subtotal | | | \$ 47,300 | | | | | |

PRELIMINARY EQUIPMENT LIST
City of Winnipeg Transit Satellite Garage

PHASE 1

Eastern Corridor Study

Aug-19

OF : Owner Furnished

GCF : General Contractor Furnished

OI : Owner Installed

GCI : General Contractor Installed

| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|------------------|--|--------|-----|-----------|----------------|------|-------|------|--|
| Body Shop | | | | | | | | | |
| 1860 | Workbench, severe use | 2700 | 1 | 2700 | 72x32 | | CF-CI | TBD | Fabricated |
| 1140 | Cabinet, flammable materials, large | 1600 | 1 | 1600 | 43x18 | | CF-CI | TBD | 45 gallon capacity |
| 2832 | Vise, combination, swivel base, 5" | 1240 | 1 | 1240 | 8x14 | | CF-CI | TBD | Bench mounted |
| 1185 | Cabinet, storage, shop, 18" | 970 | 2 | 1940 | 36x18 | | CF-CI | TBD | |
| 2930 | Welder, stick, portable | 4430 | 1 | 4430 | 19x28 | | CF-CI | TBD | Stick welding |
| 2900 | Welder, MIG, portable, w/ wire feed | 4900 | 1 | 4900 | 19x39 | | CF-CI | TBD | MIG & Flux Cored welding with accessories; 460v / 575v optional |
| 2920 | Welder, oxyacetylene, portable, w/ cart | 1500 | 1 | 1500 | 25x13 | | CF-CI | TBD | Gas welding |
| 6255 | Brake, hand, 8' | 19650 | 1 | 19650 | 143x46 | | CF-CI | TBD | |
| 6701 | Shear, squaring, foot, 52" | 17700 | 1 | 17700 | 91x78 | | CF-CI | TBD | |
| 2925 | Welder, plasma cutter, portable | 3960 | 1 | 3960 | 13x21 | | CF-CI | TBD | Air Plasma Cutting & Gouging |
| 2215 | Drill press, variable speed, 20", metal shop | 6370 | 1 | 6370 | 22x32 | | CF-CI | TBD | For metal drilling - up to 7/8" steel |
| 2700 | Saw, band, vertical, wood, 14" | 1500 | 1 | 1500 | 27x19x66 | | CF-CI | TBD | 4" dust collection port requiring 600 CFM Discontinued, Find Replacement |
| 2460 | Oven, dry rod | 1820 | 1 | 1820 | 23x30 | | CF-CI | TBD | Includes thermometer. Bench mounted only, requires table (#1860 or sim) |
| 9355 | Filter, mechanical, portable | 12,800 | 1 | 12800 | 38x19 | | CF-CI | TBD | 720 CFM of suction. Intended for Welding Fume/Smoke and Grinding operations. |
| 2260 | Grinder, 12" disc/6" belt | 2150 | 1 | 2150 | 38x21x54 | | CF-CI | TBD | 4" dust collection port requiring 400 cfm |
| 2540 | Press, manual/hydraulic, 25 ton | 6280 | 1 | 6280 | 40.5x30x76 | | CF-CI | TBD | Single acting, spring return 54.5" vert clr, 29" horz clr |
| 3560 | Tank, parts cleaning, solvent, medium | 3500 | 1 | 3500 | 42x30 | | CF-CI | TBD | |
| 2460 | Oven, dry rod | 1820 | 1 | 1820 | 23x30 | | CF-CI | TBD | Includes thermometer. Bench mounted only, requires table (#1860 or sim) |
| 2085 | Buffer/grinder, 8", w/ pedestal | 5240 | 1 | 5240 | 22x11 | | CF-CI | TBD | |
| Subtotal | | | | \$ | 101,100 | | | | |

PRELIMINARY EQUIPMENT LIST
City of Winnipeg Transit Satellite Garage

PHASE 1

Eastern Corridor Study

Aug-19

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 GCI : General Contractor Installed

| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|--------------------------|---|-------|-----|------------------|-----------|------|-------|------|---|
| Upholstery Shop | | | | | | | | | |
| 1185 | Cabinet, storage, shop, 18" | 970 | 4 | 3880 | 36x18 | | CF-CI | TBD | |
| 1764 | Table, layout, steel top, 96"x36" | 560 | 4 | 2240 | 96x36 | | CF-CI | TBD | Incl adj legs. Add \$140 for casters. 5000lb cap w/o casters, 1200/3000 cap with. |
| 1752 | Chair, shop | 680 | 6 | 4080 | 20D | | CF-CI | TBD | Includes 5 hard floor casters |
| 9600 | Machine, sewing, w/ power stand | 4045 | 2 | 8090 | 48x20 | | CF-CI | TBD | Includes table, stand, and motor. |
| 1610 | Rack, upholstery | 1080 | 4 | 4320 | 60x18 | | CF-CI | TBD | |
| 1760 | Table, layout, steel top, 60"x30" | 650 | 2 | 1300 | 60x30 | | CF-CI | TBD | Incl adj legs. Add \$140 for casters. 5000lb cap w/o casters, 1200/3000 cap with. |
| | Subtotal | | | \$ 23,910 | | | | | |
| Body Shop Storage | | | | | | | | | |
| 1440 | Rack, body panel, large | 3200 | 3 | 9600 | 51x50 | | CF-CI | TBD | Fabricated |
| 1450 | Rack, body panel, small | 2800 | 4 | 11200 | 48x38 | | CF-CI | TBD | Fabricated |
| 1531 | Rack, pallet, 42" deep, 12' high, 6000lb, w/ deck | 2050 | 4 | 8200 | 114x42 | | CF-CI | TBD | 3 shelves w/ wire mesh deck |
| | Subtotal | | | \$ 29,000 | | | | | |
| Battery Charging | | | | | | | | | |
| 9280 | De-ionizer, battery water | 1000 | 1 | 1000 | 6x6 | | CF-CI | TBD | Wall mounted |
| 5010 | Cart, battery | 1400 | 2 | 2800 | 48x30 | | CF-CI | TBD | |
| 5015 | Cart, battery lift | 1180 | 2 | 2360 | 30x22 | | CF-CI | TBD | |
| 5785 | Pallet, containment, hazardous materials | 600 | 1 | 600 | 53x53 | | CF-CI | TBD | |
| 2130 | Charger, battery, fixed | 2760 | 1 | 2760 | 15x11 | | CF-CI | TBD | For up to 36 batteries, 4 bus bars included |
| 9400 | Handwash station, shop | 1200 | 1 | 1200 | 36x24 | | CF-CI | TBD | |
| 9820 | Shower, drench, w/ eyewash | 2865 | 1 | 2865 | 14x34 | * | CF-CI | TBD | Free-standing unit. Includes tempered water metering valve. +\$225 for SS shower head. +\$125 for foot control. |
| | Subtotal | | | \$ 13,585 | | | | | |

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Aug-19

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| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|---|---|--------|-----|-------------------|-----------|------|-------|------|---|
| Light Duty Hoist (2) | | | | | | | | | |
| 1860 | Workbench, severe use | 2700 | 2 | 5400 | 72x32 | | CF-CI | TBD | Fabricated |
| 8190 | Drops, air/electric, trapeze | 1600 | 2 | 3200 | 24x6 | * | CF-CI | TBD | Quadraplex receptacle, quick disconnect for 3/8" & 1/2" impact drives |
| 2832 | Vise, combination, swivel base, 5" | 1240 | 2 | 2480 | 8x14 | | CF-CI | TBD | Bench mounted |
| 8740 | Reel bank (pick 4) | 8140 | 2 | 16280 | | * | CF-CI | TBD | Plumbed to Lube Room. 100 lbs per reel. |
| 3560 | Tank, parts cleaning, solvent, medium | 3500 | 2 | 7000 | 42x30 | | CF-CI | TBD | |
| 3304 | Reel, vehicle exhaust, motor operated, w/ 6" hose | 8200 | 2 | 16400 | 60x30 | * | CF-CI | TBD | |
| | Subtotal | | | \$ 50,760 | | | | | |
| Chassis Wash - Transit Bus | | | | | | | | | |
| 8710 | Reel bank (WWS) | 1600 | 2 | 3200 | | * | CF-CI | TBD | Plumbed to Lube Room. 100 lbs per reel. |
| 5703 | Lift, drive-on, parallelogram, 50,000 lb, 32 ft | 161440 | 1 | 161440 | 40'x9' | * | CF-CI | TBD | Includes lights, alarm, 2 pair ramps. Add \$3,350 for flush mount. \$14,000 for 50T rolling jack, \$24,000 for wet environment |
| 9820 | Shower, drench, w/ eyewash | 2865 | 1 | 2865 | 14x34 | * | CF-CI | TBD | Free-standing unit. Includes tempered water metering valve. +\$225 for SS shower head. +\$125 for foot control. |
| 3720 | Washer, pressure, hot water, NG | 13410 | 2 | 26820 | 51x31 | | CF-CI | TBD | Add \$550 for swivel boom, \$400 for Hose Reel, \$270 per additional Hose/Gun |
| | Subtotal | | | \$ 194,325 | | | | | |
| Chassis Wash - Articulated Bus (2) | | | | | | | | | |
| 3720 | Washer, pressure, hot water, NG | 13410 | 1 | 13410 | 51x31 | | CF-CI | TBD | oom, \$400 for Hose Reel, \$270 per additional Hose/Gun |
| 5703 | Lift, drive-on, parallelogram, 50,000 lb, 32 ft | 161440 | 1 | 161440 | 40'x9' | * | CF-CI | TBD | Includes lights, alarm, 2 pair ramps. Add \$3,350 for flush mount. \$14,000 for 50T rolling jack, \$24,000 for wet environment |
| 9820 | Shower, drench, w/ eyewash | 2865 | 1 | 2865 | 14x34 | * | CF-CI | TBD | Free-standing unit. Includes tempered water metering valve. +\$225 for SS shower head. +\$125 for foot control. |
| 3811 | Washer, vehicle, chassis | 29270 | 2 | 58540 | 20'x50' | * | CF-CI | TBD | For use with mark #3800 |
| 3720 | Washer, pressure, hot water, NG | 13410 | 1 | 13410 | 51x31 | | CF-CI | TBD | Add \$550 for swivel boom, \$400 for Hose Reel, \$270 per additional Hose/Gun |
| | Subtotal | | | \$ 249,665 | | | | | |

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PHASE 1

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Aug-19

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| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|--|--|-------|-----|-------------------|---------------------------------|------|--------|------|---|
| Forklift / Scissor Lift / Sweeper Pakring | | | | | | | | | |
| 5350 | Forklift, electric, sit-down, 4000 lb | 33550 | 2 | 67100 | 42x120 21x22x27 (charger) | | CF-CI | TBD | 132" minimum aisle operating width |
| 3359 | Scrubber, floor, riding, electric | 43500 | 1 | 43500 | a) 88x53 b) 26x24 | | CF-CI | TBD | a) Scrubber dims b) Battery Charger dims |
| 3365 | Sweeper, floor, riding, electric | 38000 | 1 | 38000 | a) 64x82 b) 21x22 | | CF-CI | TBD | a) Sweeper dims b) Battery Charger dims |
| | Subtotal | | | \$ 148,600 | | | | | |
| Lube / Compressor Room | | | | | | | | | |
| 8525 | Pump, air piston (ATF), 4.25", 10:1 | 4910 | 7 | 34370 | | | CF-CI | TBD | Size to be confirmed by Mechanical. Add \$314 for wall mounted |
| 5788 | Pallet, containment, 2 totes (DEF) | 1200 | 2 | 2400 | 99x51 | | GCF/GC | TBD | Single pallet for two 330 gallon IBC totes (one is a spare). Verify price. |
| 8588 | Pump, diaphragm, stainless steel (DEF) | 2425 | 1 | 2425 | | | CF-CI | TBD | Size to be confirmed by Mechanical. Wall mounted. |
| 2232 | Dryer, air, refrigerated, 200 CFM | 6410 | 1 | 6410 | 28x30x58 | | CF-CI | TBD | Size to be confirmed by Mechanical Add \$525 for filters. |
| 9820 | Shower, drench, w/ eyewash | 2865 | 1 | 2865 | 14x34 | * | CF-CI | TBD | Free-standing unit. Includes tempered water metering valve. +\$225 for SS shower head. +\$125 for foot control. |
| 8534 | Pump, air piston (CG), w/ hoist, 4.25", 50:1 | 7240 | 1 | 7240 | | | CF-CI | TBD | Size to be confirmed by Mechanical |
| 8940A | Tank, storage, cube, 280 gallon (EC, WWF) | 3650 | 2 | 7300 | 34x58 | | CF-CI | TBD | Above ground double wall for lubricants Add \$225 for single wall interior divider Add \$450 for double wall interior divider |
| 2168 | Compressor, air, rec. mtd., 25 HP dplx | 38500 | 1 | 38500 | 89x61 | | CF-CI | TBD | Size to be confirmed by Mechanical Includes vibration isolation pads |
| 8945 | Tank, storage, cube, 1000 gallon (ATF, GO1, GO2, EO1, EO2) | 7610 | 5 | 38050 | 48x112 | | CF-CI | TBD | Above ground double wall for lubricants Add \$225 for single wall interior divider Add \$450 for double wall interior divider |
| | Subtotal | | | \$ 139,560 | | | | | |

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| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|------|-------------|-------|-----|-----|-----------|------|------|------|---------|
|------|-------------|-------|-----|-----|-----------|------|------|------|---------|

MAINTENANCE - STORES / PARTS

Stores

| | | | | | | | | | |
|------|---|------|-----------------|-------------------|--------|--|-------|-----|---|
| 1113 | Cabinet, 9 drawer, 59" | 3110 | 42 | 130620 | 30x28 | | CF-CI | TBD | Lockable. Credit \$530 if overhead cabinet not used. |
| 1531 | Rack, pallet, 42" deep, 12' high, 6000lb, w/ deck | 2050 | 46 | 94300 | 114x42 | | CF-CI | TBD | 3 shelves w/ wire mesh deck |
| 1456 | Rack, bulk storage, w/ deck | 1400 | 10 | 14000 | 72x24 | | CF-CI | TBD | |
| 1680 | Shelving unit, 18" | 900 | 40 | 36000 | 36x18 | | CF-CI | TBD | Add \$575 per add on. Deduct \$6 for floor anchors: (2) pair left & right support feet |
| | | | Subtotal | \$ 274,920 | | | | | |

Secure Storage / tool Crib

| | | | | | | | | | |
|------|---|------|-----------------|-----------------|--------|--|-------|-----|-----------------------------|
| 1531 | Rack, pallet, 42" deep, 12' high, 6000lb, w/ deck | 2050 | 1 | 2050 | 114x42 | | CF-CI | TBD | 3 shelves w/ wire mesh deck |
| 1456 | Rack, bulk storage, w/ deck | 1400 | 5 | 7000 | 72x24 | | CF-CI | TBD | |
| | | | Subtotal | \$ 9,050 | | | | | |

Shipping and Receiving

| | | | | | | | | | |
|------|-----------------------------------|-----|-----------------|-----------------|-------|--|-------|-----|--|
| 1764 | Table, layout, steel top, 96"x36" | 560 | 2 | 1120 | 96x36 | | CF-CI | TBD | Incld adj legs. Add \$140 for casters. 5000lb cap w/o casters, 1200/3000 cap with. |
| | | | Subtotal | \$ 1,120 | | | | | |

Consumables Area

| | | | | | | | | | |
|------|-----------------------------|-----|-----------------|------------------|-------|--|-------|-----|--|
| 1185 | Cabinet, storage, shop, 18" | 970 | 18 | 17460 | 36x18 | | CF-CI | TBD | |
| | | | Subtotal | \$ 17,460 | | | | | |

Canopy Covered storage

| | | | | | | | | | |
|------|---|------|-----------------|------------------|--------|--|-------|-----|-----------------------------|
| 1531 | Rack, pallet, 42" deep, 12' high, 6000lb, w/ deck | 2050 | 8 | 16400 | 114x42 | | CF-CI | TBD | 3 shelves w/ wire mesh deck |
| | | | Subtotal | \$ 16,400 | | | | | |

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| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|------|-------------|-------|-----|-----|-----------|------|------|------|---------|
|------|-------------|-------|-----|-----|-----------|------|------|------|---------|

MAINTENANCE - FACILITY

Wood Working Shop

| | | | | | | | | | |
|------|--|-------|---|-------|-----------------|--|-------|-----|---|
| 2715 | Saw, radial arm, 14" | 6170 | 1 | 6170 | 44x47 | | CF-CI | TBD | |
| 2725 | Saw, table, tilting arbor, 14" | 5600 | 1 | 5600 | 84X53 | | CF-CI | TBD | |
| 1420 | Rack, arm, single face, 7' high | 1380 | 4 | 5520 | 36x22 | | CF-CI | TBD | Add \$500 per add-on. Add \$420 per rack end. |
| 2705 | Saw, band, vertical, 20" | 9330 | 1 | 9330 | 42x29 | | CF-CI | TBD | For cutting both metal and wood |
| 2713 | Saw, miter, 10", w/ stand | 1250 | 1 | 1250 | 59x26 | | CF-CI | TBD | |
| 2482 | Planer, 22" | 8700 | 1 | 8700 | 42x49x59 | | CF-CI | TBD | 5" dust collection port requiring 900 CFM |
| 2240 | Dust collection system, central, shop, woodworking | 47300 | 1 | 47300 | 49x22, 28x25 | | CF-CI | TBD | Includes pre-separator w/ stand; 3 active station operation; Add \$58,000 for fire suppression & expl vent INSTALL OUTDOORS USE SMALLER INDIVIDUAL DUST COLLECTOR INSTEAD UNITS WHERE POSSIBLE |
| 2205 | Drill press, variable speed, 15" | 2730 | 1 | 2730 | 14x20 | | CF-CI | TBD | For drilling wood or metal - up to 5/8" steel Add \$250 for 3 phase option. |
| 2680 | Sander, disc, ped. mtd. | 600 | 1 | 600 | 28x20 | | CF-CI | TBD | 2-1/4" dust collection port requiring 400 CFM |
| 1764 | Table, layout, steel top, 96"x36" | 560 | 2 | 1120 | 96x36 | | CF-CI | TBD | Incl adj legs. Add \$140 for casters. 5000lb cap w/o casters, 1200/3000 cap with. |
| 2714 | Saw, panel, vertical | 3100 | 1 | 3100 | 120x31 | | CF-CI | TBD | Add \$700 for dust collection vacuum when not connected to a central vacuum system |
| 2718 | Saw, Scroll | | | | | | | | |

Subtotal \$ 91,420

HVAC / industrial mech shop

Subtotal \$ -

Electrical - FM shop

Subtotal \$ -

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|------------------|------------------------|-------|-----|-------------------|-----------|------|-------|------|---|
| FM Stores | | | | | | | | | |
| 1113 | Cabinet, 9 drawer, 59" | 3110 | 64 | 199040 | 30x28 | | CF-CI | TBD | Lockable. Credit \$530 if overhead cabinet not used. |
| 1680 | Shelving unit, 18" | 900 | 36 | 32400 | 36x18 | | CF-CI | TBD | Add \$575 per add on. Deduct \$6 for floor anchors: (2) pair left & right support feet |
| | Subtotal | | | \$ 231,440 | | | | | |

SITE AREAS

Liquid Fuel Tank Farm

| | | | | | | | | | |
|------|---|-------|---|-------------------|--------|---|-------|-----|--|
| 8934 | Tank, vault, steel, fire rated, double wall, 12,000 gallons | 66020 | 3 | 198060 | 440x95 | * | CF-CI | TBD | Requires slab. Add \$4200 for tank mount pump/dispenser. |
| | Subtotal | | | \$ 198,060 | | | | | |

PRELIMINARY EQUIPMENT LIST
City of Winnipeg Transit Satellite Garage

PHASE 2

Eastern Corridor Study

Aug-19

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| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|------|-------------|-------|-----|-----|-----------|------|------|------|---------|
|------|-------------|-------|-----|-----|-----------|------|------|------|---------|

MAINTENANCE - SHOPS

In-Ground Lift Repair Bays (Articulated Bus - 3 Bays)

| | | | | | | | | | |
|------|---|------|---|--------|-------|---|---------|-----|--|
| 2835 | Vise, combination, swivel base, 6" | 2050 | 3 | 6150 | 10x16 | | CF-CI | TBD | Bench mounted |
| 1860 | Workbench, severe use | 2700 | 3 | 8100 | 72x32 | | CF-CI | TBD | Fabricated |
| 3560 | Tank, parts cleaning, solvent, medium | 3500 | 3 | 10,500 | 42x30 | | CF-CI | TBD | |
| 3304 | Reel, vehicle exhaust, motor operated, w/ 6" hose | 8200 | 3 | 24600 | 60x30 | * | CF-CI | TBD | 800cfm at source; 1200F max; 7.5"wc (reel); |
| 8720 | Reel bank (pick 2) | 4070 | 6 | 24420 | | | * CF-CI | TBD | Plumbed to Lube Room. 100 lbs per reel. |
| 8740 | Reel bank (pick 4) | 8140 | 3 | 24420 | | | * CF-CI | TBD | Plumbed to Lube Room. 100 lbs per reel. |
| 8190 | Drops, air/electric, trapeze | 1600 | 6 | 9600 | 24x6 | * | CF-CI | TBD | Quadraplex receptacle, quick disconnect for 3/8" & 1/2" impact drives |

Subtotal **\$ 107,790**

In-Ground Lift Repair Bays (Transit Bus - 15 Bays)

| | | | | | | | | | |
|------|---|------|----|--------|-------|---|---------|-----|--|
| 2835 | Vise, combination, swivel base, 6" | 2050 | 15 | 30750 | 10x16 | | CF-CI | TBD | Bench mounted |
| 1860 | Workbench, severe use | 2700 | 15 | 40500 | 72x32 | | CF-CI | TBD | Fabricated |
| 3304 | Reel, vehicle exhaust, motor operated, w/ 6" hose | 8200 | 15 | 123000 | 60x30 | * | CF-CI | TBD | 800cfm at source; 1200F max; 7.5"wc (reel); Ducted to outside. |
| 8740 | Reel bank (pick 4) | 8140 | 15 | 122100 | | | * CF-CI | TBD | Plumbed to Lube Room. 100 lbs per reel. |
| 8190 | Drops, air/electric, trapeze | 1600 | 30 | 48000 | 24x6 | * | CF-CI | TBD | Quadraplex receptacle, quick disconnect for 3/8" & 1/2" impact drives |
| 3560 | Tank, parts cleaning, solvent, medium | 3500 | 15 | 52500 | 42x30 | | CF-CI | TBD | |

Subtotal **\$ 416,850**

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| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|---|---|-------|-----|-------------------|-----------|------|-------|------|--|
| Platform Lift Repair Bay (Articulated Bus) | | | | | | | | | |
| 2835 | Vise, combination, swivel base, 6" | 2050 | 1 | 2050 | 10x16 | | CF-CI | TBD | Bench mounted |
| 1860 | Workbench, severe use | 2700 | 1 | 2700 | 72x32 | | CF-CI | TBD | Fabricated |
| 3304 | Reel, vehicle exhaust, motor operated, w/ 6" hose | 8200 | 1 | 8200 | 60x30 | * | CF-CI | TBD | 800cfm at source; 1200F max; 7.5"wc (reel); Ducted to outside. Single drop fan included. Non-bus diesel use. 240 lbs. |
| 8720 | Reel bank (pick 2) | 4070 | 1 | 4070 | | * | CF-CI | TBD | Plumbed to Lube Room. 100 lbs per reel. |
| 8740 | Reel bank (pick 4) | 8140 | 1 | 8140 | | * | CF-CI | TBD | Plumbed to Lube Room. 100 lbs per reel. |
| 8190 | Drops, air/electric, trapeze | 1600 | 2 | 3200 | 24x6 | * | CF-CI | TBD | Quadraplex receptacle, quick disconnect for 3/8" & 1/2" impact drives |
| 3560 | Tank, parts cleaning, solvent, medium | 3500 | 1 | 3,500 | 42x30 | | CF-CI | TBD | |
| | Subtotal | | | \$ 31,860 | | | | | |
| Light Duty Bay Flat (Transit Bus) | | | | | | | | | |
| 1860 | Workbench, severe use | 2700 | 1 | 2700 | 72x32 | | CF-CI | TBD | Fabricated |
| 8190 | Drops, air/electric, trapeze | 1600 | 2 | 3200 | 24x6 | * | CF-CI | TBD | Quadraplex receptacle, quick disconnect for 3/8" & 1/2" impact drives |
| 2832 | Vise, combination, swivel base, 5" | 1240 | 1 | 1240 | 8x14 | | CF-CI | TBD | Bench mounted |
| 8740 | Reel bank (pick 4) | 8140 | 1 | 8140 | | * | CF-CI | TBD | Plumbed to Lube Room. 100 lbs per reel. |
| 8720 | Reel bank (GO1, GO2) | 2780 | 1 | 2780 | | * | CF-CI | TBD | Plumbed to Lube Room. 100 lbs per reel. |
| 3560 | Tank, parts cleaning, solvent, medium | 3500 | 1 | 3500 | 42x30 | | CF-CI | TBD | |
| 1130 | Cabinet, 9 drawer, 59" | 2170 | 1 | 2170 | 26x24 | | CF-CI | TBD | Casters available. Add \$120 for casters |
| 3304 | Reel, vehicle exhaust, motor operated, w/ 6" hose | 8200 | 1 | 8200 | 60x30 | * | CF-CI | TBD | |
| | Subtotal | | | \$ 31,930 | | | | | |
| Portable Equipment (3) | | | | | | | | | |
| 1113 | Cabinet, 9 drawer, 59" | 3110 | 48 | 130620 | 30x28 | | CF-CI | TBD | Lockable. Credit \$530 if overhead cabinet not used. |
| 1456 | Rack, bulk storage, w/ deck | 1400 | 27 | 14000 | 72x24 | | CF-CI | TBD | |
| | Subtotal | | | \$ 144,620 | | | | | |

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Aug-19

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| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|-------------------------|--|-------|-----|------------------|-----------|------|-------|------|---|
| Electronics Bay | | | | | | | | | |
| 3304 | Reel, vehicle exhaust, motor operated, w/ 6" hose | 8200 | 1 | 8200 | 60x30 | * | CF-CI | TBD | |
| 1860 | Workbench, severe use | 2700 | 1 | 2700 | 72x32 | | CF-CI | TBD | Fabricated |
| 8740 | Reel bank (pick 4) | 8140 | 1 | 8140 | | * | CF-CI | TBD | Plumbed to Lube Room. 100 lbs per reel. |
| 2832 | Vise, combination, swivel base, 5" | 1240 | 1 | 1240 | 8x14 | | CF-CI | TBD | Bench mounted |
| 3560 | Tank, parts cleaning, solvent, medium | 3500 | 1 | 3500 | 42x30 | | CF-CI | TBD | |
| 8190 | Drops, air/electric, trapeze | 1600 | 2 | 3200 | 24x6 | * | CF-CI | TBD | Quadraplex receptacle, quick disconnect for 3/8" & 1/2" impact drives |
| 8720 | Reel bank (GO1, GO2) | 2780 | 2 | 5560 | | * | CF-CI | TBD | Plumbed to Lube Room. 100 lbs per reel. |
| 1130 | Cabinet, 9 drawer, 59" | 2170 | 1 | 2170 | 26x24 | | CF-CI | TBD | Casters available. Add \$120 for casters |
| | Subtotal | | | \$ 34,710 | | | | | |
| Electronics Shop | | | | | | | | | |
| 1456 | Rack, bulk storage, w/ deck | 1400 | 1 | 1400 | 72x24 | | CF-CI | TBD | |
| 1800 | Workbench, electronics, anti-static top, 2 cabinet | 4200 | 3 | 12600 | 72x30 | | CF-CI | TBD | |
| 1802 | Workbench, electronics, anti-static top, 6 ft. | 1730 | 3 | 5190 | 72x30 | | CF-CI | TBD | |
| 2832 | Vise, combination, swivel base, 5" | 1240 | 3 | 3720 | 8x14 | | CF-CI | TBD | Bench mounted |
| 1185 | Cabinet, storage, shop, 18" | 970 | 2 | 1940 | 36x18 | | CF-CI | TBD | |
| 1752 | Chair, shop | 680 | 3 | 2040 | 20D | | CF-CI | TBD | Includes 5 hard floor casters |
| | Subtotal | | | \$ 26,890 | | | | | |

PRELIMINARY EQUIPMENT LIST
City of Winnipeg Transit Satellite Garage

PHASE 2

Eastern Corridor Study

Aug-19

OF : Owner Furnished

GCF : General Contractor Furnished

OI : Owner Installed

GCI : General Contractor Installed

| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|-------------------------|--|-------|-----|-------------------|---------------------------|------|-------|------|---|
| Common Work Area | | | | | | | | | |
| 1420 | Rack, arm, single face, 7' high | 1380 | 2 | 2760 | 36x22 | | CF-CI | TBD | Add \$500 per add-on. Add \$420 per rack end. |
| 1080 | Bin unit, hose/line | 2670 | 1 | 2670 | 36x36 | | CF-CI | TBD | Add \$2860 per add-on |
| 1860 | Workbench, severe use | 2700 | 3 | 8100 | 72x32 | | CF-CI | TBD | Fabricated |
| 6330 | Crimper, hydraulic hose, bench mounted | 9130 | 1 | 9130 | 8x22 | | CF-CI | TBD | |
| 2708 | Saw, cut-off, abrasive/mitering, 16"-18" | 4800 | 1 | 4800 | 30x33 | | CF-CI | TBD | |
| 1140 | Cabinet, flammable materials, large | 1600 | 1 | 1600 | 43x18 | | CF-CI | TBD | 45 gallon capacity |
| 3080 | Cabinet, abrasive blast, medium, w/ dust collector | 11100 | 1 | 11100 | 56x88, 30x38 | | CF-CI | TBD | 50"x39"x43" interior working dimensions |
| 2433 | Milling machine, vertical | 30000 | 1 | 30000 | 80x64 | | CF-CI | TBD | |
| 2085 | Buffer/grinder, 8", w/ pedestal | 5240 | 1 | 5240 | 22x11 | | CF-CI | TBD | |
| 2690 | Saw, band, combination, vert./horiz. | 4010 | 1 | 4010 | 54x26 | | CF-CI | TBD | Portable |
| 5074 | Crane, bridge, suspended, 1 ton | 28160 | 1 | 28160 | | * | CF-CI | TBD | |
| 2248 | Dust collector, brake lathe, 2 point | 31000 | 1 | 31000 | 22x49, 10x15, 36x24 | | CF-CI | TBD | Includes wall-mounted pre-separator; simultaneous 2 point operation. Hood assembly included |
| 3785 | Washer, parts, jet spray, small | 17850 | 1 | 17850 | 42x53 | | CF-CI | TBD | 500 lb load capacity, 25"D by 18"H working dimensions |
| 9400 | Handwash station, shop | 1200 | 1 | 1200 | 36x24 | | CF-CI | TBD | |
| 9820 | Shower, drench, w/ eyewash | 2865 | 1 | 2865 | 14x34 | * | CF-CI | TBD | |
| 3560 | Tank, parts cleaning, solvent, medium | 3500 | 1 | 3500 | 42x30 | | CF-CI | TBD | |
| 2832 | Vise, combination, swivel base, 5" | 1240 | 2 | 2480 | 8x14 | | CF-CI | TBD | Bench mounted |
| 1588 | Rack, pick, 66 drawer | 1320 | 1 | 1320 | 36x15 | | CF-CI | TBD | |
| 2540 | Press, manual/hydraulic, 25 ton | 6280 | 1 | 6280 | 40.5x30x76 | | CF-CI | TBD | Single acting, spring return 54.5" vert clr, 29" horz clr |
| 2564 | Press, arbor, ratchet, 5 ton, ped. mtd. | 4450 | 1 | 4450 | 18x29 | | CF-CI | TBD | |
| | Subtotal | | | \$ 178,515 | | | | | |

PRELIMINARY EQUIPMENT LIST
City of Winnipeg Transit Satellite Garage

PHASE 2

Eastern Corridor Study

Aug-19

OF : Owner Furnished

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OI : Owner Installed

GCI : General Contractor Installed

| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|---|------------------------------------|-------|-----|------------------|-----------|------|-------|------|---|
| Tire Bay | | | | | | | | | |
| 1860 | Workbench, severe use | 2700 | 1 | 2700 | 72x32 | | CF-CI | TBD | Fabricated |
| 2832 | Vise, combination, swivel base, 5" | 1240 | 1 | 1240 | 8x14 | | CF-CI | TBD | Bench mounted |
| 8190 | Drops, air/electric, trapeze | 1600 | 2 | 3200 | 24x6 | * | CF-CI | TBD | Quadraplex receptacle, quick disconnect for 3/8" & 1/2" impact drives |
| 8710 | Reel bank (WWS) | 1600 | 2 | 3200 | | * | CF-CI | TBD | Plumbed to Lube Room. 100 lbs per reel. |
| | Subtotal | | | \$ 10,340 | | | | | |
| Tire Storage | | | | | | | | | |
| 1640 | Rack, tire, stackable | 430 | 26 | 11180 | 60x26 | | CF-CI | TBD | 4 tires per rack, based on B305/85R22.5 size or, 6 standard auto type tires |
| | Subtotal | | | \$ 11,180 | | | | | |
| Minor Body Repair / Prep Bay (Articulated Bus (2)) | | | | | | | | | |
| 1860 | Workbench, severe use | 2700 | 2 | 5400 | 72x32 | | CF-CI | TBD | Fabricated |
| 2832 | Vise, combination, swivel base, 5" | 1240 | 2 | 2480 | 8x14 | | CF-CI | TBD | Bench mounted |
| 6050 | Anchor, floor, cast-in | 250 | 60 | 15000 | 9x6 | * | CF-CI | TBD | Installed during floor construction. Add \$210 for floor anchor turret #532. |
| 8190 | Drops, air/electric, trapeze | 1600 | 4 | 6400 | 24x6 | * | CF-CI | TBD | Quadraplex receptacle, quick disconnect for 3/8" & 1/2" impact drives |
| | Subtotal | | | \$ 29,280 | | | | | |

PRELIMINARY EQUIPMENT LIST
City of Winnipeg Transit Satellite Garage

PHASE 2

Eastern Corridor Study

Aug-19

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| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|--|---|--------|-----|-------------------|-----------|------|-------|------|--|
| Paint Booth articulated bus (2) | | | | | | | | | |
| 5555 | Lift, man, pneumatic, paint booth | 32330 | 2 | 64660 | 48x36 | | CF-CI | TBD | 60' min booth for a 45' bus. Price for one unit only. Wash Bay options available. Confirm accessories with paint booth type. |
| 6111 | Booth, paint, vehicle, down-draft, artic | 377000 | 2 | 754000 | 21'x81' | * | CF-CI | TBD | +\$79,000 heated AMU + ducts +82,000 two pneum manlifts +4,000 two fall prot +5,000 two breathable air units. Roof supports for AMU; Slab leavouts Does not include installation |
| 6232 | Filtration system, breathing air, grade D, four respirator capacity | 3000 | 2 | 6000 | 18x6 | | CF-CI | TBD | 4 hood type respirators, max Filters compressed air to Grade D breathable air |
| | Subtotal | | | \$ 824,660 | | | | | |
| Paint Mix | | | | | | | | | |
| 1860 | Workbench, severe use | 2700 | 1 | 2700 | 72x32 | | CF-CI | TBD | Fabricated |
| 1140 | Cabinet, flammable materials, large | 1600 | 1 | 1600 | 43x18 | | CF-CI | TBD | 45 gallon capacity |
| 9400 | Handwash station, shop | 1200 | 1 | 1200 | 36x24 | | CF-CI | TBD | |
| 9820 | Shower, drench, w/ eyewash | 2865 | 1 | 2865 | 14x34 | * | CF-CI | TBD | Free-standing unit. Includes tempered water metering valve. +\$225 for SS shower head. +\$125 for foot control. |
| 2832 | Vise, combination, swivel base, 5" | 1240 | 1 | 1240 | 8x14 | | CF-CI | TBD | Bench mounted |
| 1185 | Cabinet, storage, shop, 18" | 970 | 1 | 970 | 36x18 | | CF-CI | TBD | |
| 3788 | Washer, paint spray equipment, solvent type, automatic | 3080 | 1 | 3080 | 18x14 | | CF-CI | TBD | Can be connected to solvent recycler for automatic transfer. Price does not include Recycler |
| 6670 | Shaker, paint, industrial, air operated | 4240 | 1 | 4240 | 19x33 | | CF-CI | TBD | |
| | Subtotal | | | \$ 17,895 | | | | | |

PRELIMINARY EQUIPMENT LIST
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PHASE 2

Eastern Corridor Study

Aug-19

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| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|--------------------------------|--|--------|-----|-------------------|-----------------|------|-------|------|---|
| Central Dust Collection | | | | | | | | | |
| 2240 | Dust collection system, central, shop, woodworking | 47300 | 1 | 47300 | 49x22, 28x25 | | CF-CI | TBD | Includes pre-separator w/ stand; 3 active station operation; Add \$58,000 for fire suppression & expl vent INSTALL OUTDOORS USE SMALLER INDIVIDUAL DUST COLLECTOR INSTEAD UNITS WHERE POSSIBLE |
| | Subtotal | | | \$ 47,300 | | | | | |
| Body Shop | | | | | | | | | |
| 1860 | Workbench, severe use | 2700 | 1 | 2700 | 72x32 | | CF-CI | TBD | Fabricated |
| 1140 | Cabinet, flammable materials, large | 1600 | 1 | 1600 | 43x18 | | CF-CI | TBD | 45 gallon capacity |
| 2832 | Vise, combination, swivel base, 5" | 1240 | 1 | 1240 | 8x14 | | CF-CI | TBD | Bench mounted |
| 1185 | Cabinet, storage, shop, 18" | 970 | 2 | 1940 | 36x18 | | CF-CI | TBD | |
| 2930 | Welder, stick, portable | 4430 | 1 | 4430 | 19x28 | | CF-CI | TBD | Stick welding |
| 2900 | Welder, MIG, portable, w/ wire feed | 4900 | 1 | 4900 | 19x39 | | CF-CI | TBD | MIG & Fux Cored welding with accessories; 460v / 575v optional |
| 2920 | Welder, oxyacetylene, portable, w/ cart | 1500 | 1 | 1500 | 25x13 | | CF-CI | TBD | Gas welding |
| 6255 | Brake, hand, 8' | 19650 | 1 | 19650 | 143x46 | | CF-CI | TBD | |
| 6701 | Shear, squaring, foot, 52" | 17700 | 1 | 17700 | 91x78 | | CF-CI | TBD | |
| 2925 | Welder, plasma cutter, portable | 3960 | 1 | 3960 | 13x21 | | CF-CI | TBD | Air Plasma Cutting & Gouging |
| 2215 | Drill press, variable speed, 20", metal shop | 6370 | 1 | 6370 | 22x32 | | CF-CI | TBD | For metal drilling - up to 7/8" steel |
| 2700 | Saw, band, vertical, wood, 14" | 1500 | 1 | 1500 | 27x19x66 | | CF-CI | TBD | 4" dust collection port requiring 600 CFM Discontinued, Find Replacement |
| 2460 | Oven, dry rod | 1820 | 1 | 1820 | 23x30 | | CF-CI | TBD | Includes thermometer. Bench mounted only, requires table (#1860 or sim) |
| 9355 | Filter, mechanical, portable | 12,800 | 1 | 12800 | 38x19 | | CF-CI | TBD | 720 CFM of suction. Intended for Welding Fume/Smoke and Grinding operations. |
| 2260 | Grinder, 12" disc/6" belt | 2150 | 1 | 2150 | 38x21x54 | | CF-CI | TBD | 4" dust collection port requiring 400 cfm |
| 2540 | Press, manual/hydraulic, 25 ton | 6280 | 1 | 6280 | 40.5x30x76 | | CF-CI | TBD | Single acting, spring return 54.5" vert clr, 29" horz clr |
| 3560 | Tank, parts cleaning, solvent, medium | 3500 | 1 | 3500 | 42x30 | | CF-CI | TBD | |
| 2460 | Oven, dry rod | 1820 | 1 | 1820 | 23x30 | | CF-CI | TBD | Includes thermometer. Bench mounted only, requires table (#1860 or sim) |
| 2085 | Buffer/grinder, 8", w/ pedestal | 5240 | 1 | 5240 | 22x11 | | CF-CI | TBD | |
| | Subtotal | | | \$ 101,100 | | | | | |

PRELIMINARY EQUIPMENT LIST
City of Winnipeg Transit Satellite Garage

PHASE 2

Eastern Corridor Study

Aug-19

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| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|--------------------------|---|-------|-----|------------------|-----------|------|-------|------|--|
| Upholstery Shop | | | | | | | | | |
| 1185 | Cabinet, storage, shop, 18" | 970 | 4 | 3880 | 36x18 | | CF-CI | TBD | |
| 1764 | Table, layout, steel top, 96"x36" | 560 | 4 | 2240 | 96x36 | | CF-CI | TBD | Incl adj legs. Add \$140 for casters. 5000lb cap w/o casters, 1200/3000 cap with. |
| 1752 | Chair, shop | 680 | 6 | 4080 | 20D | | CF-CI | TBD | Includes 5 hard floor casters |
| 9600 | Machine, sewing, w/ power stand | 4045 | 2 | 8090 | 48x20 | | CF-CI | TBD | Includes table, stand, and motor. |
| 1610 | Rack, upholstery | 1080 | 4 | 4320 | 60x18 | | CF-CI | TBD | |
| 1760 | Table, layout, steel top, 60"x30" | 650 | 2 | 1300 | 60x30 | | CF-CI | TBD | Incl adj legs. Add \$140 for casters. 5000lb cap w/o casters, 1200/3000 cap with. |
| | Subtotal | | | \$ 23,910 | | | | | |
| Body Shop Storage | | | | | | | | | |
| 1440 | Rack, body panel, large | 3200 | 9 | 28800 | 51x50 | | CF-CI | TBD | Fabricated |
| 1450 | Rack, body panel, small | 2800 | 8 | 22400 | 48x38 | | CF-CI | TBD | Fabricated |
| 1531 | Rack, pallet, 42" deep, 12' high, 6000lb, w/ deck | 2050 | 6 | 12300 | 114x42 | | CF-CI | TBD | 3 shelves w/ wire mesh deck |
| | Subtotal | | | \$ 63,500 | | | | | |
| Battery Charging | | | | | | | | | |
| 9280 | De-ionizer, battery water | 1000 | 1 | 1000 | 6x6 | | CF-CI | TBD | Wall mounted |
| 5010 | Cart, battery | 1400 | 2 | 2800 | 48x30 | | CF-CI | TBD | |
| 5015 | Cart, battery lift | 1180 | 2 | 2360 | 30x22 | | CF-CI | TBD | |
| 5785 | Pallet, containment, hazardous materials | 600 | 1 | 600 | 53x53 | | CF-CI | TBD | |
| 2130 | Charger, battery, fixed | 2760 | 1 | 2760 | 15x11 | | CF-CI | TBD | For up to 36 batteries, 4 bus bars included |
| 9400 | Handwash station, shop | 1200 | 1 | 1200 | 36x24 | | CF-CI | TBD | |
| 9820 | Shower, drench, w/ eyewash | 2865 | 1 | 2865 | 14x34 | * | CF-CI | TBD | Free-standing unit. Includes tempered water metering valve. +\$225 for SS shower head. +\$125 for foot control. |
| | Subtotal | | | \$ 13,585 | | | | | |

PRELIMINARY EQUIPMENT LIST
City of Winnipeg Transit Satellite Garage

PHASE 2

Eastern Corridor Study

Aug-19

OF : Owner Furnished

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| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|---|---|--------|-----|-------------------|-----------|------|-------|------|---|
| Light Duty Hoist (2) | | | | | | | | | |
| 1860 | Workbench, severe use | 2700 | 2 | 5400 | 72x32 | | CF-CI | TBD | Fabricated |
| 8190 | Drops, air/electric, trapeze | 1600 | 2 | 3200 | 24x6 | * | CF-CI | TBD | Quadraplex receptacle, quick disconnect for 3/8" & 1/2" impact drives |
| 2832 | Vise, combination, swivel base, 5" | 1240 | 2 | 2480 | 8x14 | | CF-CI | TBD | Bench mounted |
| 8740 | Reel bank (pick 4) | 8140 | 2 | 16280 | | * | CF-CI | TBD | Plumbed to Lube Room. 100 lbs per reel. |
| 3560 | Tank, parts cleaning, solvent, medium | 3500 | 2 | 7000 | 42x30 | | CF-CI | TBD | |
| 3304 | Reel, vehicle exhaust, motor operated, w/ 6" hose | 8200 | 2 | 16400 | 60x30 | * | CF-CI | TBD | |
| | Subtotal | | | \$ 50,760 | | | | | |
| Chassis Wash - Transit Bus | | | | | | | | | |
| 8710 | Reel bank (WWS) | 1600 | 2 | 3200 | | * | CF-CI | TBD | Plumbed to Lube Room. 100 lbs per reel. |
| 5703 | Lift, drive-on, parallelogram, 50,000 lb, 32 ft | 161440 | 1 | 161440 | 40'x9' | * | CF-CI | TBD | Includes lights, alarm, 2 pair ramps. Add \$3,350 for flush mount. \$14,000 for 50T rolling jack, \$24,000 for wet environment |
| 9820 | Shower, drench, w/ eyewash | 2865 | 1 | 2865 | 14x34 | * | CF-CI | TBD | Free-standing unit. Includes tempered water metering valve. +\$225 for SS shower head. +\$125 for foot control. |
| 3720 | Washer, pressure, hot water, NG | 13410 | 2 | 26820 | 51x31 | | CF-CI | TBD | Add \$550 for swivel boom, \$400 for Hose Reel, \$270 per additional Hose/Gun |
| | Subtotal | | | \$ 194,325 | | | | | |
| Chassis Wash - Articulated Bus (3) | | | | | | | | | |
| 8710 | Reel bank (WWS) | 1600 | 1 | 1600 | | * | CF-CI | TBD | Plumbed to Lube Room. 100 lbs per reel. |
| 5703 | Lift, drive-on, parallelogram, 50,000 lb, 32 ft | 161440 | 1 | 161440 | 40'x9' | * | CF-CI | TBD | Includes lights, alarm, 2 pair ramps. Add \$3,350 for flush mount. \$14,000 for 50T rolling jack, \$24,000 for wet environment |
| 9820 | Shower, drench, w/ eyewash | 2865 | 1 | 2865 | 14x34 | * | CF-CI | TBD | Free-standing unit. Includes tempered water metering valve. +\$225 for SS shower head. +\$125 for foot control. |
| 3811 | Washer, vehicle, chassis | 29270 | 2 | 58540 | 20'x50' | * | CF-CI | TBD | For use with mark #3800 |
| 3720 | Washer, pressure, hot water, NG | 13410 | 1 | 13410 | 51x31 | | CF-CI | TBD | Add \$550 for swivel boom, \$400 for Hose Reel, \$270 per additional Hose/Gun |
| | Subtotal | | | \$ 237,855 | | | | | |

PRELIMINARY EQUIPMENT LIST
City of Winnipeg Transit Satellite Garage

PHASE 2

Eastern Corridor Study

Aug-19

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GCI : General Contractor Installed

| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|--|--|-------|-----|-------------------|---------------------------------|------|--------|------|---|
| Forklift / Scissor Lift / Sweeper Pakring | | | | | | | | | |
| 5350 | Forklift, electric, sit-down, 4000 lb | 33550 | 2 | 67100 | 42x120 21x22x27 (charger) | | CF-CI | TBD | 132" minimum aisle operating width |
| 3359 | Scrubber, floor, riding, electric | 43500 | 1 | 43500 | a) 88x53 b) 26x24 | | CF-CI | TBD | a) Scrubber dims b) Battery Charger dims |
| 3365 | Sweeper, floor, riding, electric | 38000 | 1 | 38000 | a) 64x82 b) 21x22 | | CF-CI | TBD | a) Sweeper dims b) Battery Charger dims |
| | Subtotal | | | \$ 148,600 | | | | | |
| Lube / Compressor Room | | | | | | | | | |
| 8525 | Pump, air piston (ATF), 4.25", 10:1 | 4910 | 7 | 34370 | | | CF-CI | TBD | Size to be confirmed by Mechanical. Add \$314 for wall mounted |
| 5788 | Pallet, containment, 2 totes (DEF) | 1200 | 2 | 2400 | 99x51 | | GCF/GC | TBD | Single pallet for two 330 gallon IBC totes (one is a spare). Verify price. |
| 8588 | Pump, diaphragm, stainless steel (DEF) | 2425 | 1 | 2425 | | | CF-CI | TBD | Size to be confirmed by Mechanical. Wall mounted. |
| 2232 | Dryer, air, refrigerated, 200 CFM | 6410 | 1 | 6410 | 28x30x58 | | CF-CI | TBD | Size to be confirmed by Mechanical Add \$525 for filters. |
| 9820 | Shower, drench, w/ eyewash | 2865 | 1 | 2865 | 14x34 | * | CF-CI | TBD | Free-standing unit. Includes tempered water metering valve. +\$225 for SS shower head. +\$125 for foot control. |
| 8534 | Pump, air piston (CG), w/ hoist, 4.25", 50:1 | 7240 | 1 | 7240 | | | CF-CI | TBD | Size to be confirmed by Mechanical |
| 8940A | Tank, storage, cube, 280 gallon (EC, WWF) | 3650 | 2 | 7300 | 34x58 | | CF-CI | TBD | Above ground double wall for lubricants Add \$225 for single wall interior divider Add \$450 for double wall interior divider |
| 2168 | Compressor, air, rec. mtd., 25 HP dplx | 38500 | 1 | 38500 | 89x61 | | CF-CI | TBD | Size to be confirmed by Mechanical Includes vibration isolation pads |
| 8945 | Tank, storage, cube, 1000 gallon (ATF, GO1, GO2, EO1, EO2) | 7610 | 5 | 38050 | 48x112 | | CF-CI | TBD | Above ground double wall for lubricants Add \$225 for single wall interior divider Add \$450 for double wall interior divider |
| | Subtotal | | | \$ 139,560 | | | | | |

PRELIMINARY EQUIPMENT LIST
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PHASE 2

Eastern Corridor Study

Aug-19

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 GCI : General Contractor Installed

| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|------|-------------|-------|-----|-----|-----------|------|------|------|---------|
|------|-------------|-------|-----|-----|-----------|------|------|------|---------|

MAINTENANCE - STORES / PARTS

Stores

| | | | | | | | | | |
|-----------------|---|------|----|-------------------|--------|--|-------|-----|---|
| 1113 | Cabinet, 9 drawer, 59" | 3110 | 60 | 186600 | 30x28 | | CF-CI | TBD | Lockable. Credit \$530 if overhead cabinet not used. |
| 1531 | Rack, pallet, 42" deep, 12' high, 6000lb, w/ deck | 2050 | 67 | 137350 | 114x42 | | CF-CI | TBD | 3 shelves w/ wire mesh deck |
| 1456 | Rack, bulk storage, w/ deck | 1400 | 24 | 33600 | 72x24 | | CF-CI | TBD | |
| 1680 | Shelving unit, 18" | 900 | 40 | 36000 | 36x18 | | CF-CI | TBD | Add \$575 per add on. Deduct \$6 for floor anchors: (2) pair left & right support feet |
| Subtotal | | | | \$ 393,550 | | | | | |

Secure Storage / tool Crib

| | | | | | | | | | |
|-----------------|---|------|---|-----------------|--------|--|-------|-----|-----------------------------|
| 1531 | Rack, pallet, 42" deep, 12' high, 6000lb, w/ deck | 2050 | 1 | 2050 | 114x42 | | CF-CI | TBD | 3 shelves w/ wire mesh deck |
| 1456 | Rack, bulk storage, w/ deck | 1400 | 5 | 7000 | 72x24 | | CF-CI | TBD | |
| Subtotal | | | | \$ 9,050 | | | | | |

Shipping and Receiving

| | | | | | | | | | |
|-----------------|-----------------------------------|-----|---|-----------------|-------|--|-------|-----|--|
| 1764 | Table, layout, steel top, 96"x36" | 560 | 2 | 1120 | 96x36 | | CF-CI | TBD | Incl adj legs. Add \$140 for casters. 5000lb cap w/o casters, 1200/3000 cap with. |
| Subtotal | | | | \$ 1,120 | | | | | |

Consumables Area

| | | | | | | | | | |
|-----------------|-----------------------------|-----|----|------------------|-------|--|-------|-----|--|
| 1185 | Cabinet, storage, shop, 18" | 970 | 18 | 17460 | 36x18 | | CF-CI | TBD | |
| Subtotal | | | | \$ 17,460 | | | | | |

Canopy Covered storage

| | | | | | | | | | |
|-----------------|---|------|---|------------------|--------|--|-------|-----|-----------------------------|
| 1531 | Rack, pallet, 42" deep, 12' high, 6000lb, w/ deck | 2050 | 8 | 16400 | 114x42 | | CF-CI | TBD | 3 shelves w/ wire mesh deck |
| Subtotal | | | | \$ 16,400 | | | | | |

PRELIMINARY EQUIPMENT LIST
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PHASE 2

Eastern Corridor Study

Aug-19

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| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|------|-------------|-------|-----|-----|-----------|------|------|------|---------|
|------|-------------|-------|-----|-----|-----------|------|------|------|---------|

MAINTENANCE - FACILITY

Wood Working Shop

| | | | | | | | | | |
|------|--|-------|----|-----------|-----------------|--|-------|-----|---|
| 1190 | Cabinet, storage, shop, 24" | 1060 | 6 | 6360 | 36x24 | | CF-CI | TBD | |
| 2715 | Saw, radial arm, 14" | 6170 | 1 | 6170 | 44x47 | | CF-CI | TBD | |
| 2725 | Saw, table, tilting arbor, 14" | 5600 | 1 | 5600 | 84X53 | | CF-CI | TBD | |
| 1683 | Shelving unit, 24" | 760 | 4 | 3040 | 36x24 | | CF-CI | TBD | Add \$700 per add on. Deduct \$6 for floor anchors: (2) pair left & right support feet |
| 1420 | Rack, arm, single face, 7' high | 1380 | 22 | 30360 | 36x22 | | CF-CI | TBD | Add \$500 per add-on. Add \$420 per rack end. |
| 2705 | Saw, band, vertical, 20" | 9330 | 1 | 9330 | 42x29 | | CF-CI | TBD | For cutting both metal and wood |
| 2713 | Saw, miter, 10", w/ stand | 1250 | 1 | 1250 | 59x26 | | CF-CI | TBD | |
| 2482 | Planer, 22" | 8700 | 1 | 8700 | 42x49x59 | | CF-CI | TBD | 5" dust collection port requiring 900 CFM |
| 2240 | Dust collection system, central, shop, woodworking | 47300 | 1 | 47300 | 49x22, 28x25 | | CF-CI | TBD | Includes pre-separator w/ stand; 3 active station operation; Add \$58,000 for fire suppression & expl vent INSTALL OUTDOORS USE SMALLER INDIVIDUAL DUST COLLECTOR INSTEAD UNITS WHERE POSSIBLE |
| 2205 | Drill press, variable speed, 15" | 2730 | 1 | 2730 | 14x20 | | CF-CI | TBD | For drilling wood or metal - up to 5/8" steel Add \$250 for 3 phase option. |
| 2680 | Sander, disc, ped. mtd. | 600 | 1 | 600 | 28x20 | | CF-CI | TBD | 2-1/4" dust collection port requiring 400 CFM |
| 1764 | Table, layout, steel top, 96"x36" | 560 | 6 | 3360 | 96x36 | | CF-CI | TBD | Incl adj legs. Add \$140 for casters. 5000lb cap w/o casters, 1200/3000 cap with. |
| 2714 | Saw, panel, vertical | 3100 | 1 | 3100 | 120x31 | | CF-CI | TBD | Add \$700 for dust collection vacuum when not connected to a central vacuum system |
| 2718 | Saw, Scroll | | | | | | | | |
| | Subtotal | | | \$ | 127,900 | | | | |

HVAC / industrial mech shop

| | | | | | | | | | |
|------|--|------|---|-------|-------|--|-------|-----|-------------------------------|
| 1456 | Rack, bulk storage, w/ deck | 1400 | 5 | 7000 | 72x24 | | CF-CI | TBD | |
| 1800 | Workbench, electronics, anti-static top, 2 cabinet | 4200 | 7 | 29400 | 72x30 | | CF-CI | TBD | |
| 1802 | Workbench, electronics, anti-static top, 6 ft. | 1730 | 7 | 12110 | 72x30 | | CF-CI | TBD | |
| 2832 | Vise, combination, swivel base, 5" | 1240 | 7 | 8680 | 8x14 | | CF-CI | TBD | Bench mounted |
| 1185 | Cabinet, storage, shop, 18" | 970 | 6 | 5820 | 36x18 | | CF-CI | TBD | |
| 1752 | Chair, shop | 680 | 7 | 4760 | 20D | | CF-CI | TBD | Includes 5 hard floor casters |

PRELIMINARY EQUIPMENT LIST
City of Winnipeg Transit Satellite Garage

PHASE 2

Eastern Corridor Study

Aug-19

OF : Owner Furnished

GCF : General Contractor Furnished

OI : Owner Installed

GCI : General Contractor Installed

| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|------|-------------|----------|-----|-----------|-----------|------|------|------|---------|
| | | Subtotal | | \$ 67,770 | | | | | |

PRELIMINARY EQUIPMENT LIST
City of Winnipeg Transit Satellite Garage

PHASE 2

Eastern Corridor Study

Aug-19

OF : Owner Furnished

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GCI : General Contractor Installed

| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|------|-------------|-------|-----|-----|-----------|------|------|------|---------|
|------|-------------|-------|-----|-----|-----------|------|------|------|---------|

Electrical - FM shop

| | | | | | | | | | |
|------|---|-----------------|---|------------------|------------|---|-------|-----|--|
| 1531 | Rack, pallet, 42" deep, 12' high, 6000lb, w/ deck | 2050 | 7 | 14350 | 114x42 | | CF-CI | TBD | 3 shelves w/ wire mesh deck |
| 1860 | Workbench, severe use | 2700 | 3 | 8100 | 72x32 | | CF-CI | TBD | Fabricated |
| 2832 | Vise, combination, swivel base, 5" | 1240 | 2 | 2480 | 8x14 | | CF-CI | TBD | Bench mounted |
| 9400 | Handwash station, shop | 1200 | 1 | 1200 | 36x24 | | CF-CI | TBD | |
| 9820 | Shower, drench, w/ eyewash | 2865 | 1 | 2865 | 14x34 | * | CF-CI | TBD | Free-standing unit. Includes tempered water metering valve. +\$225 for SS shower head. +\$125 for foot control. |
| 2215 | Drill press, variable speed, 20", metal shop | 6370 | 1 | 6370 | 22x32 | | CF-CI | TBD | For metal drilling - up to 7/8" steel |
| 2085 | Buffer/grinder, 8", w/ pedestal | 5240 | 1 | 5240 | 22x11 | | CF-CI | TBD | |
| 2540 | Press, manual/hydraulic, 25 ton | 6280 | 1 | 6280 | 40.5x30x76 | | CF-CI | TBD | Single acting, spring return 54.5" vert clr, 29" horz clr |
| 6076 | Bender, power, pipe/tube, portable | 9900 | 1 | 9900 | 47x33 | | CF-CI | TBD | |
| | | Subtotal | | \$ 56,785 | | | | | |

FM Stores

| | | | | | | | | | |
|------|-----------------------------|-----------------|----|-------------------|-------|--|-------|-----|---|
| 1456 | Rack, bulk storage, w/ deck | 1400 | 9 | 12600 | 72x24 | | CF-CI | TBD | |
| 1113 | Cabinet, 9 drawer, 59" | 3110 | 64 | 199040 | 30x28 | | CF-CI | TBD | Lockable. Credit \$530 if overhead cabinet not used. |
| 1680 | Shelving unit, 18" | 900 | 18 | 16200 | 36x18 | | CF-CI | TBD | Add \$575 per add on. Deduct \$6 for floor anchors: (2) pair left & right support feet |
| | | Subtotal | | \$ 227,840 | | | | | |

SITE AREAS

Liquid Fuel Tank Farm

| | | | | | | | | | |
|------|---|-----------------|---|-------------------|--------|---|-------|-----|---|
| 8934 | Tank, vault, steel, fire rated, double wall, 12,000 gallons | 66020 | 3 | 198060 | 440x95 | * | CF-CI | TBD | Requires slab. Add \$4200 for tank mount pump/dispenser. |
| | | Subtotal | | \$ 198,060 | | | | | |

PRELIMINARY EQUIPMENT LIST
City of Winnipeg Transit Satellite Garage

PHASE 3

Eastern Corridor Study

Aug-19

OF : Owner Furnished

GCF : General Contractor Furnished

OI : Owner Installed

GCI : General Contractor Installed

| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|------|-------------|-------|-----|-----|-----------|------|------|------|---------|
|------|-------------|-------|-----|-----|-----------|------|------|------|---------|

MAINTENANCE - SHOPS

In-Ground Lift Repair Bays (Articulated Bus - 4 Bays)

| | | | | | | | | | |
|-----------------|---|------|---|-------------------|-------|---|-------|-----|---|
| 2835 | Vise, combination, swivel base, 6" | 2050 | 4 | 8200 | 10x16 | | CF-CI | TBD | Bench mounted |
| 1860 | Workbench, severe use | 2700 | 4 | 10800 | 72x32 | | CF-CI | TBD | Fabricated |
| 3560 | Tank, parts cleaning, solvent, medium | 3500 | 4 | 14,000 | 42x30 | | CF-CI | TBD | |
| 3304 | Reel, vehicle exhaust, motor operated, w/ 6" hose | 8200 | 4 | 32800 | 60x30 | * | CF-CI | TBD | 800cfm at source; 1200F max; 7.5"wc (reel); Plumbed to Lube Room. 100 lbs per reel. |
| 8720 | Reel bank (pick 2) | 4070 | 8 | 32560 | | * | CF-CI | TBD | Plumbed to Lube Room. 100 lbs per reel. |
| 8740 | Reel bank (pick 4) | 8140 | 4 | 32560 | | * | CF-CI | TBD | Plumbed to Lube Room. 100 lbs per reel. |
| 8190 | Drops, air/electric, trapeze | 1600 | 8 | 12800 | 24x6 | * | CF-CI | TBD | Quadraplex receptacle, quick disconnect for 3/8" & 1/2" impact drives |
| Subtotal | | | | \$ 143,720 | | | | | |

In-Ground Lift Repair Bays (Transit Bus - 26 Bays)

| | | | | | | | | | |
|-----------------|---|------|----|-------------------|-------|---|-------|-----|---|
| 2835 | Vise, combination, swivel base, 6" | 2050 | 26 | 53,300 | 10x16 | | CF-CI | TBD | Bench mounted |
| 1860 | Workbench, severe use | 2700 | 26 | 70,200 | 72x32 | | CF-CI | TBD | Fabricated |
| 3304 | Reel, vehicle exhaust, motor operated, w/ 6" hose | 8200 | 52 | 426,400 | 60x30 | * | CF-CI | TBD | 800cfm at source; 1200F max; 7.5"wc (reel); Ducted to outside. Single drop fan included. Non-bus diesel use. 240 lbs. |
| 8740 | Reel bank (pick 4) | 8140 | 26 | 211,640 | | * | CF-CI | TBD | Plumbed to Lube Room. 100 lbs per reel. |
| 8190 | Drops, air/electric, trapeze | 1600 | 52 | 83,200 | 24x6 | * | CF-CI | TBD | Quadraplex receptacle, quick disconnect for 3/8" & 1/2" impact drives |
| 3560 | Tank, parts cleaning, solvent, medium | 3500 | 26 | 91,000 | 42x30 | | CF-CI | TBD | |
| Subtotal | | | | \$ 935,740 | | | | | |

PRELIMINARY EQUIPMENT LIST
City of Winnipeg Transit Satellite Garage

PHASE 3

Eastern Corridor Study

Aug-19

OF : Owner Furnished

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GCI : General Contractor Installed

| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|---|---|-------|-----|-------------------|-----------|------|-------|------|---|
| Platform Lift Repair Bay (Articulated Bus) | | | | | | | | | |
| 2835 | Vise, combination, swivel base, 6" | 2050 | 1 | 2050 | 10x16 | | CF-CI | TBD | Bench mounted |
| 1860 | Workbench, severe use | 2700 | 1 | 2700 | 72x32 | | CF-CI | TBD | Fabricated |
| 3304 | Reel, vehicle exhaust, motor operated, w/ 6" hose | 8200 | 1 | 8200 | 60x30 | * | CF-CI | TBD | 800cfm at source; 1200F max; 7.5"wc (reel); Ducted to outside. Single drop fan included. Non-bus diesel use. 240 lbs. |
| 8720 | Reel bank (pick 2) | 4070 | 1 | 4070 | | * | CF-CI | TBD | Plumbed to Lube Room. 100 lbs per reel. |
| 8740 | Reel bank (pick 4) | 8140 | 1 | 8140 | | * | CF-CI | TBD | Plumbed to Lube Room. 100 lbs per reel. |
| 8190 | Drops, air/electric, trapeze | 1600 | 2 | 3200 | 24x6 | * | CF-CI | TBD | Quadraplex receptacle, quick disconnect for 3/8" & 1/2" impact drives |
| 3560 | Tank, parts cleaning, solvent, medium | 3500 | 1 | 3,500 | 42x30 | | CF-CI | TBD | |
| | Subtotal | | | \$ 31,860 | | | | | |
| Light Duty Bay Flat (2 Bays) (Transit Bus) | | | | | | | | | |
| 1860 | Workbench, severe use | 2700 | 2 | 5400 | 72x32 | | CF-CI | TBD | Fabricated |
| 8190 | Drops, air/electric, trapeze | 1600 | 4 | 6400 | 24x6 | * | CF-CI | TBD | Quadraplex receptacle, quick disconnect for 3/8" & 1/2" impact drives |
| 2832 | Vise, combination, swivel base, 5" | 1240 | 2 | 2480 | 8x14 | | CF-CI | TBD | Bench mounted |
| 8740 | Reel bank (pick 4) | 8140 | 2 | 16280 | | * | CF-CI | TBD | Plumbed to Lube Room. 100 lbs per reel. |
| 8720 | Reel bank (GO1, GO2) | 2780 | 2 | 5560 | | * | CF-CI | TBD | Plumbed to Lube Room. 100 lbs per reel. |
| 3560 | Tank, parts cleaning, solvent, medium | 3500 | 2 | 7000 | 42x30 | | CF-CI | TBD | |
| 1130 | Cabinet, 9 drawer, 59" | 2170 | 2 | 4340 | 26x24 | | CF-CI | TBD | Casters available. Add \$120 for casters |
| 3304 | Reel, vehicle exhaust, motor operated, w/ 6" hose | 8200 | 2 | 16400 | 60x30 | * | CF-CI | TBD | |
| | Subtotal | | | \$ 63,860 | | | | | |
| Portable Equipment (3) | | | | | | | | | |
| 1113 | Cabinet, 9 drawer, 59" | 3110 | 80 | 248800 | 30x28 | | CF-CI | TBD | Lockable. Credit \$530 if overhead cabinet not used. |
| 1456 | Rack, bulk storage, w/ deck | 1400 | 45 | 63000 | 72x24 | | CF-CI | TBD | |
| | Subtotal | | | \$ 311,800 | | | | | |

PRELIMINARY EQUIPMENT LIST
City of Winnipeg Transit Satellite Garage

PHASE 3

Eastern Corridor Study

Aug-19

OF : Owner Furnished

GCF : General Contractor Furnished

OI : Owner Installed

GCI : General Contractor Installed

| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|-------------------------|--|-------|-----|------------------|-----------|------|-------|------|---|
| Electronics Bay | | | | | | | | | |
| 3304 | Reel, vehicle exhaust, motor operated, w/ 6" hose | 8200 | 1 | 8200 | 60x30 | * | CF-CI | TBD | |
| 1860 | Workbench, severe use | 2700 | 1 | 2700 | 72x32 | | CF-CI | TBD | Fabricated |
| 8740 | Reel bank (pick 4) | 8140 | 1 | 8140 | | * | CF-CI | TBD | Plumbed to Lube Room. 100 lbs per reel. |
| 2832 | Vise, combination, swivel base, 5" | 1240 | 1 | 1240 | 8x14 | | CF-CI | TBD | Bench mounted |
| 3560 | Tank, parts cleaning, solvent, medium | 3500 | 1 | 3500 | 42x30 | | CF-CI | TBD | |
| 8190 | Drops, air/electric, trapeze | 1600 | 2 | 3200 | 24x6 | * | CF-CI | TBD | Quadraplex receptacle, quick disconnect for 3/8" & 1/2" impact drives |
| 8720 | Reel bank (GO1, GO2) | 2780 | 2 | 5560 | | * | CF-CI | TBD | Plumbed to Lube Room. 100 lbs per reel. |
| 1130 | Cabinet, 9 drawer, 59" | 2170 | 1 | 2170 | 26x24 | | CF-CI | TBD | Casters available. Add \$120 for casters |
| | Subtotal | | | \$ 34,710 | | | | | |
| Electronics Shop | | | | | | | | | |
| 1456 | Rack, bulk storage, w/ deck | 1400 | 1 | 1400 | 72x24 | | CF-CI | TBD | |
| 1800 | Workbench, electronics, anti-static top, 2 cabinet | 4200 | 3 | 12600 | 72x30 | | CF-CI | TBD | |
| 1802 | Workbench, electronics, anti-static top, 6 ft. | 1730 | 3 | 5190 | 72x30 | | CF-CI | TBD | |
| 2832 | Vise, combination, swivel base, 5" | 1240 | 3 | 3720 | 8x14 | | CF-CI | TBD | Bench mounted |
| 1185 | Cabinet, storage, shop, 18" | 970 | 2 | 1940 | 36x18 | | CF-CI | TBD | |
| 1752 | Chair, shop | 680 | 3 | 2040 | 20D | | CF-CI | TBD | Includes 5 hard floor casters |
| | Subtotal | | | \$ 26,890 | | | | | |

PRELIMINARY EQUIPMENT LIST
City of Winnipeg Transit Satellite Garage

PHASE 3

Eastern Corridor Study

Aug-19

OF : Owner Furnished

GCF : General Contractor Furnished

OI : Owner Installed

GCI : General Contractor Installed

| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|------------------------------|--|-------|-----|-------------------|---------------------------|------|-------|------|---|
| Common Work Area (x2) | | | | | | | | | |
| 1420 | Rack, arm, single face, 7' high | 1380 | 4 | 5520 | 36x22 | | CF-CI | TBD | Add \$500 per add-on. Add \$420 per rack end. |
| 1080 | Bin unit, hose/line | 2670 | 2 | 5340 | 36x36 | | CF-CI | TBD | Add \$2860 per add-on |
| 1860 | Workbench, severe use | 2700 | 6 | 16200 | 72x32 | | CF-CI | TBD | Fabricated |
| 6330 | Crimper, hydraulic hose, bench mounted | 9130 | 2 | 18260 | 8x22 | | CF-CI | TBD | |
| 2708 | Saw, cut-off, abrasive/mitering, 16"-18" | 4800 | 2 | 9600 | 30x33 | | CF-CI | TBD | |
| 1140 | Cabinet, flammable materials, large | 1600 | 2 | 3200 | 43x18 | | CF-CI | TBD | 45 gallon capacity |
| 3080 | Cabinet, abrasive blast, medium, w/ dust collector | 11100 | 2 | 22200 | 56x88, 30x38 | | CF-CI | TBD | 50"x39"x43" interior working dimensions |
| 2433 | Milling machine, vertical | 30000 | 2 | 60000 | 80x64 | | CF-CI | TBD | |
| 2085 | Buffer/grinder, 8", w/ pedestal | 5240 | 2 | 10480 | 22x11 | | CF-CI | TBD | |
| 2690 | Saw, band, combination, vert./horiz. | 4010 | 2 | 8020 | 54x26 | | CF-CI | TBD | Portable |
| 5074 | Crane, bridge, suspended, 1 ton | 28160 | 2 | 56320 | | * | CF-CI | TBD | |
| 2248 | Dust collector, brake lathe, 2 point | 31000 | 2 | 62000 | 22x49, 10x15, 36x24 | | CF-CI | TBD | Includes wall-mounted pre-separator; simultaneous 2 point operation. Hood assembly included |
| 3785 | Washer, parts, jet spray, small | 17850 | 2 | 35700 | 42x53 | | CF-CI | TBD | 500 lb load capacity, 25"D by 18"H working dimensions |
| 9400 | Handwash station, shop | 1200 | 2 | 2400 | 36x24 | | CF-CI | TBD | |
| 9820 | Shower, drench, w/ eyewash | 2865 | 2 | 5730 | 14x34 | * | CF-CI | TBD | |
| 3560 | Tank, parts cleaning, solvent, medium | 3500 | 2 | 7000 | 42x30 | | CF-CI | TBD | |
| 2832 | Vise, combination, swivel base, 5" | 1240 | 4 | 4960 | 8x14 | | CF-CI | TBD | Bench mounted |
| 1588 | Rack, pick, 66 drawer | 1320 | 2 | 2640 | 36x15 | | CF-CI | TBD | |
| 2540 | Press, manual/hydraulic, 25 ton | 6280 | 2 | 12560 | 40.5x30x76 | | CF-CI | TBD | Single acting, spring return 54.5" vert clr, 29" horz clr |
| 2564 | Press, arbor, ratchet, 5 ton, ped. mtd. | 4450 | 2 | 8900 | 18x29 | | CF-CI | TBD | |
| | Subtotal | | | \$ 357,030 | | | | | |

PRELIMINARY EQUIPMENT LIST
City of Winnipeg Transit Satellite Garage

PHASE 3

Eastern Corridor Study

Aug-19

OF : Owner Furnished

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| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|---|---|--------|-----|-------------------|-----------|------|-------|------|---|
| Tire Bay (2 Bays) | | | | | | | | | |
| 1860 | Workbench, severe use | 2700 | 2 | 5400 | 72x32 | | CF-CI | TBD | Fabricated |
| 2832 | Vise, combination, swivel base, 5" | 1240 | 2 | 2480 | 8x14 | | CF-CI | TBD | Bench mounted |
| 8190 | Drops, air/electric, trapeze | 1600 | 4 | 6400 | 24x6 | * | CF-CI | TBD | Quadraplex receptacle, quick disconnect for 3/8" & 1/2" impact drives |
| 8710 | Reel bank (WWS) | 1600 | 4 | 6400 | | * | CF-CI | TBD | Plumbed to Lube Room. 100 lbs per reel. |
| | Subtotal | | | \$ 20,680 | | | | | |
| Tire Storage | | | | | | | | | |
| 1640 | Rack, tire, stackable | 430 | 26 | 11180 | 60x26 | | CF-CI | TBD | 4 tires per rack, based on B305/85R22.5 size or, 6 standard auto type tires |
| | Subtotal | | | \$ 11,180 | | | | | |
| Minor Body Repair / Prep Bay (Articulated Bus (2)) | | | | | | | | | |
| 1860 | Workbench, severe use | 2700 | 2 | 5400 | 72x32 | | CF-CI | TBD | Fabricated |
| 2832 | Vise, combination, swivel base, 5" | 1240 | 2 | 2480 | 8x14 | | CF-CI | TBD | Bench mounted |
| 6050 | Anchor, floor, cast-in | 250 | 60 | 15000 | 9x6 | * | CF-CI | TBD | Installed during floor construction. Add \$210 for floor anchor turret #532. |
| 8190 | Drops, air/electric, trapeze | 1600 | 4 | 6400 | 24x6 | * | CF-CI | TBD | Quadraplex receptacle, quick disconnect for 3/8" & 1/2" impact drives |
| | Subtotal | | | \$ 29,280 | | | | | |
| Paint Booth articulated bus (2) | | | | | | | | | |
| 5555 | Lift, man, pneumatic, paint booth | 32330 | 2 | 64660 | 48x36 | | CF-CI | TBD | 60' min booth for a 45' bus. Price for one unit only. Wash Bay options available. Confirm accessories with paint booth type. |
| 6111 | Booth, paint, vehicle, down-draft, artic | 377000 | 2 | 754000 | 21'x81' | * | CF-CI | TBD | +\$79,000 heated AMU + ducts +82,000 two pneum manlifts +4,000 two fall prot +5,000 two breathable air units. Roof supports for AMU; Slab leavouts Does not include installation |
| 6232 | Filtration system, breathing air, grade D, four respirator capacity | 3000 | 2 | 6000 | 18x6 | | CF-CI | TBD | 4 hood type respirators, max Filters compressed air to Grade D breathable air |
| | Subtotal | | | \$ 824,660 | | | | | |

PRELIMINARY EQUIPMENT LIST
City of Winnipeg Transit Satellite Garage

PHASE 3

Eastern Corridor Study

Aug-19

OF : Owner Furnished

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GCI : General Contractor Installed

| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|--------------------------------|--|-------|-----|------------------|-----------------|------|-------|------|--|
| Paint Mix | | | | | | | | | |
| 1860 | Workbench, severe use | 2700 | 1 | 2700 | 72x32 | | CF-CI | TBD | Fabricated |
| 1140 | Cabinet, flammable materials, large | 1600 | 1 | 1600 | 43x18 | | CF-CI | TBD | 45 gallon capacity |
| 9400 | Handwash station, shop | 1200 | 1 | 1200 | 36x24 | | CF-CI | TBD | |
| 9820 | Shower, drench, w/ eyewash | 2865 | 1 | 2865 | 14x34 | * | CF-CI | TBD | Free-standing unit. Includes tempered water metering valve. +\$225 for SS shower head. +\$125 for foot control. |
| 2832 | Vise, combination, swivel base, 5" | 1240 | 1 | 1240 | 8x14 | | CF-CI | TBD | Bench mounted |
| 1185 | Cabinet, storage, shop, 18" | 970 | 1 | 970 | 36x18 | | CF-CI | TBD | |
| 3788 | Washer, paint spray equipment, solvent type, automatic | 3080 | 1 | 3080 | 18x14 | | CF-CI | TBD | Can be connected to solvent recycler for automatic transfer. Price does not include Recycler |
| 6670 | Shaker, paint, industrial, air operated | 4240 | 1 | 4240 | 19x33 | | CF-CI | TBD | |
| | Subtotal | | | \$ 17,895 | | | | | |
| Central Dust Collection | | | | | | | | | |
| 2240 | Dust collection system, central, shop, woodworking | 47300 | 1 | 47300 | 49x22, 28x25 | | CF-CI | TBD | Includes pre-separator w/ stand; 3 active station operation; Add \$58,000 for fire suppression & expl vent INSTALL OUTDOORS USE SMALLER INDIVIDUAL DUST COLLECTOR INSTEAD UNITS WHERE POSSIBLE |
| | Subtotal | | | \$ 47,300 | | | | | |

PRELIMINARY EQUIPMENT LIST
City of Winnipeg Transit Satellite Garage

PHASE 3

Eastern Corridor Study

Aug-19

OF : Owner Furnished

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| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|------------------------|--|--------|-----|------------------|------------|------|-------|------|--|
| Body Shop | | | | | | | | | |
| 1860 | Workbench, severe use | 2700 | 1 | 2700 | 72x32 | | CF-CI | TBD | Fabricated |
| 1140 | Cabinet, flammable materials, large | 1600 | 1 | 1600 | 43x18 | | CF-CI | TBD | 45 gallon capacity |
| 2832 | Vise, combination, swivel base, 5" | 1240 | 1 | 1240 | 8x14 | | CF-CI | TBD | Bench mounted |
| 1185 | Cabinet, storage, shop, 18" | 970 | 2 | 1940 | 36x18 | | CF-CI | TBD | |
| 2930 | Welder, stick, portable | 4430 | 1 | 4430 | 19x28 | | CF-CI | TBD | Stick welding |
| 2900 | Welder, MIG, portable, w/ wire feed | 4900 | 1 | 4900 | 19x39 | | CF-CI | TBD | MIG & Fux Cored welding with accessories; 460v / 575v optional |
| 2920 | Welder, oxyacetylene, portable, w/ cart | 1500 | 1 | 1500 | 25x13 | | CF-CI | TBD | Gas welding |
| 6255 | Brake, hand, 8' | 19650 | 1 | 19650 | 143x46 | | CF-CI | TBD | |
| 6701 | Shear, squaring, foot, 52" | 17700 | 1 | 17700 | 91x78 | | CF-CI | TBD | |
| 2925 | Welder, plasma cutter, portable | 3960 | 1 | 3960 | 13x21 | | CF-CI | TBD | Air Plasma Cutting & Gouging |
| 2215 | Drill press, variable speed, 20", metal shop | 6370 | 1 | 6370 | 22x32 | | CF-CI | TBD | For metal drilling - up to 7/8" steel |
| 2700 | Saw, band, vertical, wood, 14" | 1500 | 1 | 1500 | 27x19x66 | | CF-CI | TBD | 4" dust collection port requiring 600 CFM Discontinued, Find Replacement |
| 2460 | Oven, dry rod | 1820 | 1 | 1820 | 23x30 | | CF-CI | TBD | Includes thermometer. Bench mounted only, requires table (#1860 or sim) |
| 9355 | Filter, mechanical, portable | 12,800 | 1 | 12800 | 38x19 | | CF-CI | TBD | 720 CFM of suction. Intended for Welding Fume/Smoke and Grinding operations. 4" dust collection port requiring 400 cfm |
| 2260 | Grinder, 12" disc/6" belt | 2150 | 1 | 2150 | 38x21x54 | | CF-CI | TBD | 4" dust collection port requiring 400 cfm |
| 2540 | Press, manual/hydraulic, 25 ton | 6280 | 1 | 6280 | 40.5x30x76 | | CF-CI | TBD | Single acting, spring return 54.5" vert clr, 29" horz clr |
| 3560 | Tank, parts cleaning, solvent, medium | 3500 | 1 | 3500 | 42x30 | | CF-CI | TBD | |
| 2085 | Buffer/grinder, 8", w/ pedestal | 5240 | 1 | 5240 | 22x11 | | CF-CI | TBD | |
| | Subtotal | | | \$ 99,280 | | | | | |
| Upholstery Shop | | | | | | | | | |
| 1185 | Cabinet, storage, shop, 18" | 970 | 4 | 3880 | 36x18 | | CF-CI | TBD | |
| 1764 | Table, layout, steel top, 96"x36" | 560 | 4 | 2240 | 96x36 | | CF-CI | TBD | Incld adj legs. Add \$140 for casters. 5000lb cap w/o casters, 1200/3000 cap with. |
| 1752 | Chair, shop | 680 | 6 | 4080 | 20D | | CF-CI | TBD | Includes 5 hard floor casters |
| 9600 | Machine, sewing, w/ power stand | 4045 | 2 | 8090 | 48x20 | | CF-CI | TBD | Includes table, stand, and motor. |
| 1610 | Rack, upholstery | 1080 | 4 | 4320 | 60x18 | | CF-CI | TBD | |
| 1760 | Table, layout, steel top, 60"x30" | 650 | 2 | 1300 | 60x30 | | CF-CI | TBD | Incld adj legs. Add \$140 for casters. 5000lb cap w/o casters, 1200/3000 cap with. |
| | Subtotal | | | \$ 23,910 | | | | | |

PRELIMINARY EQUIPMENT LIST
City of Winnipeg Transit Satellite Garage

PHASE 3

Eastern Corridor Study

Aug-19

OF : Owner Furnished

GCF : General Contractor Furnished

OI : Owner Installed

GCI : General Contractor Installed

| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|-----------------------------------|---|--------|-----|-------------------|-----------|------|-------|------|--|
| Body Shop Storage | | | | | | | | | |
| 1440 | Rack, body panel, large | 3200 | 9 | 28800 | 51x50 | | CF-CI | TBD | Fabricated |
| 1450 | Rack, body panel, small | 2800 | 8 | 22400 | 48x38 | | CF-CI | TBD | Fabricated |
| 1531 | Rack, pallet, 42" deep, 12' high, 6000lb, w/ deck | 2050 | 6 | 12300 | 114x42 | | CF-CI | TBD | 3 shelves w/ wire mesh deck |
| | Subtotal | | | \$ 63,500 | | | | | |
| Battery Charging | | | | | | | | | |
| 9280 | De-ionizer, battery water | 1000 | 1 | 1000 | 6x6 | | CF-CI | TBD | Wall mounted |
| 5010 | Cart, battery | 1400 | 2 | 2800 | 48x30 | | CF-CI | TBD | |
| 5015 | Cart, battery lift | 1180 | 2 | 2360 | 30x22 | | CF-CI | TBD | |
| 5785 | Pallet, containment, hazardous materials | 600 | 1 | 600 | 53x53 | | CF-CI | TBD | |
| 2130 | Charger, battery, fixed | 2760 | 1 | 2760 | 15x11 | | CF-CI | TBD | For up to 36 batteries, 4 bus bars included |
| 9400 | Handwash station, shop | 1200 | 1 | 1200 | 36x24 | | CF-CI | TBD | |
| 9820 | Shower, drench, w/ eyewash | 2865 | 1 | 2865 | 14x34 | * | CF-CI | TBD | Free-standing unit. Includes tempered water metering valve. +\$225 for SS shower head. +\$125 for foot control. |
| | Subtotal | | | \$ 13,585 | | | | | |
| Light Duty Hoist (4) | | | | | | | | | |
| 1860 | Workbench, severe use | 2700 | 4 | 10800 | 72x32 | | CF-CI | TBD | Fabricated |
| 8190 | Drops, air/electric, trapeze | 1600 | 4 | 6400 | 24x6 | * | CF-CI | TBD | Quadraplex receptacle, quick disconnect for 3/8" & 1/2" impact drives |
| 2832 | Vise, combination, swivel base, 5" | 1240 | 4 | 4960 | 8x14 | | CF-CI | TBD | Bench mounted |
| 8740 | Reel bank (pick 4) | 8140 | 4 | 32560 | | * | CF-CI | TBD | Plumbed to Lube Room. 100 lbs per reel. |
| 3560 | Tank, parts cleaning, solvent, medium | 3500 | 4 | 14000 | 42x30 | | CF-CI | TBD | |
| 3304 | Reel, vehicle exhaust, motor operated, w/ 6" hose | 8200 | 4 | 32800 | 60x30 | * | CF-CI | TBD | |
| | Subtotal | | | \$ 101,520 | | | | | |
| Chassis Wash - Transit Bus | | | | | | | | | |
| 8710 | Reel bank (WWS) | 1600 | 2 | 3200 | | * | CF-CI | TBD | Plumbed to Lube Room. 100 lbs per reel. |
| 5703 | Lift, drive-on, parallelogram, 50,000 lb, 32 ft | 161440 | 1 | 161440 | 40'x9' | * | CF-CI | TBD | Includes lights, alarm, 2 pair ramps. Add \$3,350 for flush mount. \$14,000 for 50T rolling jack, \$24,000 for wet environment |
| 9820 | Shower, drench, w/ eyewash | 2865 | 1 | 2865 | 14x34 | * | CF-CI | TBD | Free-standing unit. Includes tempered water metering valve. +\$225 for SS shower head. +\$125 for foot control. |
| 3720 | Washer, pressure, hot water, NG | 13410 | 2 | 26820 | 51x31 | | CF-CI | TBD | Add \$550 for swivel boom, \$400 for Hose Reel, \$270 per additional Hose/Gun |
| | Subtotal | | | \$ 194,325 | | | | | |

PRELIMINARY EQUIPMENT LIST
City of Winnipeg Transit Satellite Garage

PHASE 3

Eastern Corridor Study

Aug-19

OF : Owner Furnished

GCF : General Contractor Furnished

OI : Owner Installed

GCI : General Contractor Installed

| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|--|--|--------|-----|-------------------|---------------------------------|------|--------|------|---|
| Chassis Wash - Articulated Bus (3) | | | | | | | | | |
| 8710 | Reel bank (WWS) | 1600 | 1 | 1600 | | * | CF-CI | TBD | Plumbed to Lube Room. 100 lbs per reel. |
| 5703 | Lift, drive-on, parallelogram, 50,000 lb, 32 ft | 161440 | 1 | 161440 | 40'x9' | * | CF-CI | TBD | Includes lights, alarm, 2 pair ramps. Add \$3,350 for flush mount. \$14,000 for 50T rolling jack, \$24,000 for wet environment |
| 9820 | Shower, drench, w/ eyewash | 2865 | 1 | 2865 | 14x34 | * | CF-CI | TBD | Free-standing unit. Includes tempered water metering valve. +\$225 for SS shower head. +\$125 for foot control. |
| 3811 | Washer, vehicle, chassis | 29270 | 2 | 58540 | 20'x50' | * | CF-CI | TBD | For use with mark #3800 |
| 3720 | Washer, pressure, hot water, NG | 13410 | 2 | 26820 | 51x31 | | CF-CI | TBD | Add \$550 for swivel boom, \$400 for Hose Reel, \$270 per additional Hose/Gun |
| | Subtotal | | | \$ 251,265 | | | | | |
| Forklift / Scissor Lift / Sweeper Pakring | | | | | | | | | |
| 5350 | Forklift, electric, sit-down, 4000 lb | 33550 | 2 | 67100 | 42x120 21x22x27 (charger) | | CF-CI | TBD | 132" minimum aisle operating width |
| 3359 | Scrubber, floor, riding, electric | 43500 | 1 | 43500 | a) 88x53 b) 26x24 | | CF-CI | TBD | a) Scrubber dims b) Battery Charger dims |
| 3365 | Sweeper, floor, riding, electric | 38000 | 1 | 38000 | a) 64x82 b) 21x22 | | CF-CI | TBD | a) Sweeper dims b) Battery Charger dims |
| | Subtotal | | | \$ 148,600 | | | | | |
| Lube / Compressor Room | | | | | | | | | |
| 8525 | Pump, air piston (ATF), 4.25", 10:1 | 4910 | 7 | 34370 | | | CF-CI | TBD | Size to be confirmed by Mechanical. Add \$314 for wall mounted |
| 5788 | Pallet, containment, 2 totes (DEF) | 1200 | 2 | 2400 | 99x51 | | GCF/GC | TBD | Single pallet for two 330 gallon IBC totes (one is a spare). Verify price. |
| 8588 | Pump, diaphragm, stainless steel (DEF) | 2425 | 1 | 2425 | | | CF-CI | TBD | Size to be confirmed by Mechanical. Wall mounted. |
| 2232 | Dryer, air, refrigerated, 200 CFM | 6410 | 1 | 6410 | 28x30x58 | | CF-CI | TBD | Size to be confirmed by Mechanical Add \$525 for filters. |
| 9820 | Shower, drench, w/ eyewash | 2865 | 1 | 2865 | 14x34 | * | CF-CI | TBD | Free-standing unit. Includes tempered water metering valve. +\$225 for SS shower head. +\$125 for foot control. |
| 8534 | Pump, air piston (CG), w/ hoist, 4.25", 50:1 | 7240 | 1 | 7240 | | | CF-CI | TBD | Size to be confirmed by Mechanical |
| 8940A | Tank, storage, cube, 280 gallon (EC, WWF) | 3650 | 2 | 7300 | 34x58 | | CF-CI | TBD | Above ground double wall for lubricants Add \$225 for single wall interior divider Add \$450 for double wall interior divider |
| 2168 | Compressor, air, rec. mtd., 25 HP dplx | 38500 | 1 | 38500 | 89x61 | | CF-CI | TBD | Size to be confirmed by Mechanical Includes vibration isolation pads |
| 8945 | Tank, storage, cube, 1000 gallon (ATF, GO1, GO2, EO1, EO2) | 7610 | 5 | 38050 | 48x112 | | CF-CI | TBD | Above ground double wall for lubricants Add \$225 for single wall interior divider Add \$450 for double wall interior divider |

PRELIMINARY EQUIPMENT LIST
City of Winnipeg Transit Satellite Garage

PHASE 3

Eastern Corridor Study

Aug-19

OF : Owner Furnished

GCF : General Contractor Furnished

OI : Owner Installed

GCI : General Contractor Installed

| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|------|-------------|----------|-----|------------|-----------|------|------|------|---------|
| | | Subtotal | | \$ 139,560 | | | | | |

PRELIMINARY EQUIPMENT LIST
City of Winnipeg Transit Satellite Garage

PHASE 3

Eastern Corridor Study

Aug-19

OF : Owner Furnished

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OI : Owner Installed

GCI : General Contractor Installed

| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|------|-------------|-------|-----|-----|-----------|------|------|------|---------|
|------|-------------|-------|-----|-----|-----------|------|------|------|---------|

MAINTENANCE - STORES / PARTS

Stores

| | | | | | | | | | |
|-----------------|---|------|----|-------------------|--------|--|-------|-----|---|
| 1113 | Cabinet, 9 drawer, 59" | 3110 | 60 | 186600 | 30x28 | | CF-CI | TBD | Lockable. Credit \$530 if overhead cabinet not used. |
| 1531 | Rack, pallet, 42" deep, 12' high, 6000lb, w/ deck | 2050 | 67 | 137350 | 114x42 | | CF-CI | TBD | 3 shelves w/ wire mesh deck |
| 1456 | Rack, bulk storage, w/ deck | 1400 | 24 | 33600 | 72x24 | | CF-CI | TBD | |
| 1680 | Shelving unit, 18" | 900 | 40 | 36000 | 36x18 | | CF-CI | TBD | Add \$575 per add on. Deduct \$6 for floor anchors: (2) pair left & right support feet |
| Subtotal | | | | \$ 393,550 | | | | | |

Secure Storage / tool Crib

| | | | | | | | | | |
|-----------------|---|------|---|-----------------|--------|--|-------|-----|-----------------------------|
| 1531 | Rack, pallet, 42" deep, 12' high, 6000lb, w/ deck | 2050 | 1 | 2050 | 114x42 | | CF-CI | TBD | 3 shelves w/ wire mesh deck |
| 1456 | Rack, bulk storage, w/ deck | 1400 | 5 | 7000 | 72x24 | | CF-CI | TBD | |
| Subtotal | | | | \$ 9,050 | | | | | |

Shipping and Receiving

| | | | | | | | | | |
|-----------------|-----------------------------------|-----|---|-----------------|-------|--|-------|-----|---|
| 1764 | Table, layout, steel top, 96"x36" | 560 | 2 | 1120 | 96x36 | | CF-CI | TBD | Incl adj legs. Add \$140 for casters. 5000lb cap w/o casters, 1200/3000 cap with. |
| Subtotal | | | | \$ 1,120 | | | | | |

Consumables Area

| | | | | | | | | | |
|-----------------|-----------------------------|-----|----|------------------|-------|--|-------|-----|--|
| 1185 | Cabinet, storage, shop, 18" | 970 | 18 | 17460 | 36x18 | | CF-CI | TBD | |
| Subtotal | | | | \$ 17,460 | | | | | |

Canopy Covered storage

| | | | | | | | | | |
|-----------------|---|------|---|------------------|--------|--|-------|-----|-----------------------------|
| 1531 | Rack, pallet, 42" deep, 12' high, 6000lb, w/ deck | 2050 | 8 | 16400 | 114x42 | | CF-CI | TBD | 3 shelves w/ wire mesh deck |
| Subtotal | | | | \$ 16,400 | | | | | |

PRELIMINARY EQUIPMENT LIST
City of Winnipeg Transit Satellite Garage

PHASE 3

Eastern Corridor Study

Aug-19

OF : Owner Furnished

GCF : General Contractor Furnished

OI : Owner Installed

GCI : General Contractor Installed

| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|--------------------------------------|--|-------|-----|-------------------|--------------|------|-------|------|---|
| <u>MAINTENANCE - FACILITY</u> | | | | | | | | | |
| Wood Working Shop | | | | | | | | | |
| 1190 | Cabinet, storage, shop, 24" | 1060 | 6 | 6360 | 36x24 | | CF-CI | TBD | |
| 2715 | Saw, radial arm, 14" | 6170 | 1 | 6170 | 44x47 | | CF-CI | TBD | |
| 2725 | Saw, table, tilting arbor, 14" | 5600 | 1 | 5600 | 84X53 | | CF-CI | TBD | |
| 1683 | Shelving unit, 24" | 760 | 4 | 3040 | 36x24 | | CF-CI | TBD | Add \$700 per add on. Deduct \$6 for floor anchors: (2) pair left & right support feet |
| 1420 | Rack, arm, single face, 7' high | 1380 | 22 | 30360 | 36x22 | | CF-CI | TBD | Add \$500 per add-on. Add \$420 per rack end. |
| 2705 | Saw, band, vertical, 20" | 9330 | 1 | 9330 | 42x29 | | CF-CI | TBD | For cutting both metal and wood |
| 2713 | Saw, miter, 10", w/ stand | 1250 | 1 | 1250 | 59x26 | | CF-CI | TBD | |
| 2482 | Planer, 22" | 8700 | 1 | 8700 | 42x49x59 | | CF-CI | TBD | 5" dust collection port requiring 900 CFM |
| 2240 | Dust collection system, central, shop, woodworking | 47300 | 1 | 47300 | 49x22, 28x25 | | CF-CI | TBD | Includes pre-separator w/ stand; 3 active station operation; Add \$58,000 for fire suppression & expl vent INSTALL OUTDOORS USE SMALLER INDIVIDUAL DUST COLLECTOR INSTEAD UNITS WHERE POSSIBLE |
| 2205 | Drill press, variable speed, 15" | 2730 | 1 | 2730 | 14x20 | | CF-CI | TBD | For drilling wood or metal - up to 5/8" steel Add \$250 for 3 phase option. |
| 2680 | Sander, disc, ped. mtd. | 600 | 1 | 600 | 28x20 | | CF-CI | TBD | 2-1/4" dust collection port requiring 400 CFM |
| 1764 | Table, layout, steel top, 96"x36" | 560 | 6 | 3360 | 96x36 | | CF-CI | TBD | Incl adj legs. Add \$140 for casters. 5000lb cap w/o casters, 1200/3000 cap with. |
| 2714 | Saw, panel, vertical | 3100 | 1 | 3100 | 120x31 | | CF-CI | TBD | Add \$700 for dust collection vacuum when not connected to a central vacuum system |
| 2718 | Saw, Scroll | | | | | | | | |
| | Subtotal | | | \$ 127,900 | | | | | |
| HVAC / industrial mech shop | | | | | | | | | |
| 1456 | Rack, bulk storage, w/ deck | 1400 | 5 | 7000 | 72x24 | | CF-CI | TBD | |
| 1800 | Workbench, electronics, anti-static top, 2 cabinet | 4200 | 7 | 29400 | 72x30 | | CF-CI | TBD | |
| 1802 | Workbench, electronics, anti-static top, 6 ft. | 1730 | 7 | 12110 | 72x30 | | CF-CI | TBD | |
| 2832 | Vise, combination, swivel base, 5" | 1240 | 7 | 8680 | 8x14 | | CF-CI | TBD | Bench mounted |
| 1185 | Cabinet, storage, shop, 18" | 970 | 6 | 5820 | 36x18 | | CF-CI | TBD | |
| 1752 | Chair, shop | 680 | 7 | 4760 | 20D | | CF-CI | TBD | Includes 5 hard floor casters |
| | Subtotal | | | \$ 67,770 | | | | | |

PRELIMINARY EQUIPMENT LIST
City of Winnipeg Transit Satellite Garage

PHASE 3

Eastern Corridor Study

Aug-19

OF : Owner Furnished

GCF : General Contractor Furnished

OI : Owner Installed

GCI : General Contractor Installed

| Mark | Description | Price | Qty | Ext | Area (in) | S.I. | Meth | Spec | Remarks |
|-----------------------------|---|-------|-----|------------------|------------|------|-------|------|--|
| Electrical - FM shop | | | | | | | | | |
| 1531 | Rack, pallet, 42" deep, 12' high, 6000lb, w/ deck | 2050 | 7 | 14350 | 114x42 | | CF-CI | TBD | 3 shelves w/ wire mesh deck |
| 1860 | Workbench, severe use | 2700 | 3 | 8100 | 72x32 | | CF-CI | TBD | Fabricated |
| 2832 | Vise, combination, swivel base, 5" | 1240 | 2 | 2480 | 8x14 | | CF-CI | TBD | Bench mounted |
| 9400 | Handwash station, shop | 1200 | 1 | 1200 | 36x24 | | CF-CI | TBD | |
| 9820 | Shower, drench, w/ eyewash | 2865 | 1 | 2865 | 14x34 | * | CF-CI | TBD | Free-standing unit. Includes tempered water metering valve. +\$225 for SS shower head. +\$125 for foot control. |
| 2215 | Drill press, variable speed, 20", metal shop | 6370 | 1 | 6370 | 22x32 | | CF-CI | TBD | For metal drilling - up to 7/8" steel |
| 2085 | Buffer/grinder, 8", w/ pedestal | 5240 | 1 | 5240 | 22x11 | | CF-CI | TBD | |
| 2540 | Press, manual/hydraulic, 25 ton | 6280 | 1 | 6280 | 40.5x30x76 | | CF-CI | TBD | Single acting, spring return 54.5" vert clr, 29" horz clr |
| 6076 | Bender, power, pipe/tube, portable | 9900 | 1 | 9900 | 47x33 | | CF-CI | TBD | |
| Subtotal | | | | \$ 56,785 | | | | | |

FM Stores

| | | | | | | | | | |
|-----------------|-----------------------------|------|----|-------------------|-------|--|-------|-----|---|
| 1456 | Rack, bulk storage, w/ deck | 1400 | 9 | 12600 | 72x24 | | CF-CI | TBD | |
| 1113 | Cabinet, 9 drawer, 59" | 3110 | 64 | 199040 | 30x28 | | CF-CI | TBD | Lockable. Credit \$530 if overhead cabinet not used. |
| 1680 | Shelving unit, 18" | 900 | 18 | 16200 | 36x18 | | CF-CI | TBD | Add \$575 per add on. Deduct \$6 for floor anchors: (2) pair left & right support feet |
| Subtotal | | | | \$ 227,840 | | | | | |

SITE AREAS

Liquid Fuel Tank Farm

| | | | | | | | | | |
|-----------------|---|-------|---|-------------------|--------|---|-------|-----|---|
| 8934 | Tank, vault, steel, fire rated, double wall, 12,000 gallons | 66020 | 3 | 198060 | 440x95 | * | CF-CI | TBD | Requires slab. Add \$4200 for tank mount pump/dispenser. |
| Subtotal | | | | \$ 198,060 | | | | | |

E TAKEOFFS

TRANSIT SATELLITE GARAGE - EASTERN CORRIDOR STUDY

The City of Winnipeg, MB

PRELIMINARY SPACE TAKE-OFFS PER PLANS

| 2020 | 2035 | 2050 | |
|------------|------------|------------|---|
| | 50 | 75 | 60' / 18.29 m Articulated Coach |
| 225 | 300 | 425 | 40' / 12.19 m Transit Coaches |
| | | | 45' / 13.72 m Double Decker Transit Coaches |
| | | | 30-35' / 9.14 - 10.67 m Transit Bus |
| | | | 20-25' / 6.1 - 7.62 m Shuttle |
| 225 | 350 | 500 | Total Revenue Fleet at East Garage |

Aug, 2019

[E] = Enclosed, [O] = Open/Workstation, [A] = Alcove,
[C] = Canopy covered, [X] = Outdoors (exterior)

| Space Name | + | Initial Buildout 2020 | | | | Future 1st Expansion - Est 2035 | | | | Future Maximum Expansion - Est 2050 | | | |
|---|---|-----------------------|------------------|------------------|---------|---------------------------------|------------------|------------------|---------|-------------------------------------|------------------|------------------|---------|
| | | Qty | Area sf | Area sm | Remarks | Qty | Area sf | Area sm | Remarks | Qty | Area sf | Area sm | Remarks |
| SUMMARY - Building Spaces | | | | | | | | | | | | | |
| SHARED/COMMON SPACES, OPERATIONS, AND DRIVER'S AREA | | | 18,408 | 1,710.16 | | | 25,440 | 2,363.49 | | | 25,440 | 2,363.49 | |
| MAINT. VEHICLE SYST-SUPPORT, MAINT. VEHICLE SYST-SHOPS, MAI | | | 28,751 | 2,671.06 | | | 42,853 | 3,981.19 | | | 42,862 | 3,981.98 | |
| MAINTENANCE - VEHICLES SYSTEMS - SHOPS | | | 64,119 | 5,956.86 | | | 93,169 | 8,655.65 | | | 140,973 | 13,096.78 | |
| SERVICE - VEHICLES | | | 24,530 | 2,278.93 | | | 24,812 | 2,305.15 | | | 24,704 | 2,295.12 | |
| AGENCY VEHICLE PARKING - INTERIOR SPACES | | | 272,902 | 25,353.38 | | | 422,361 | 39,238.61 | | | 554,094 | 51,476.99 | |
| SUMMARY - Building Spaces TOTALS | | | 408,710 | 37,970.39 | | | 608,636 | 56,544.09 | | | 788,073 | 73,214.36 | |
| SUMMARY - Outdoor Spaces | | | | | | | | | | | | | |
| SITE AREAS | | | 9,701 | 901 | | | 9,797 | 910.15 | | | 13,513 | 1,255.41 | |
| EMPLOYEE / VISITOR VEHICLE PARKING - EXTERIOR SPACES | | | 108,607 | 10,089.92 | | | 143,670 | 13,347.33 | | | 203,519 | 18,907.57 | |
| SUMMARY - Outdoor Spaces TOTALS | | | 118,308 | 10,991.16 | | | 153,466 | 14,257.49 | | | 217,032 | 20,162.98 | |
| | | Site Circulation | 267,007 | - | | | 214,864 | - | | | 217,893 | - | |
| | | Landscape / Setbacks | 801,505 | - | | | 618,564 | - | | | 372,532 | - | |
| TOTAL SITE | | | 1,595,530 | | | | 1,595,530 | | | | 1,595,530 | | |



TRANSIT SATELLITE GARAGE - EASTERN CORRIDOR STUDY

The City of Winnipeg, MB

PRELIMINARY SPACE TAKE-OFFS PER PLANS

Aug, 2019

[E] = Enclosed, [O] = Open/Workstation, [A] = Alcove,
[C] = Canopy covered, [X] = Outdoors (exterior)

| 2020 | 2035 | 2050 | |
|------------|------------|------------|---|
| | 50 | 75 | 60' / 18.29 m Articulated Coach |
| 225 | 300 | 425 | 40' / 12.19 m Transit Coaches |
| | | | 45' / 13.72 m Double Decker Transit Coaches |
| | | | 30-35' / 9.14 - 10.67 m Transit Bus |
| | | | 20-25' / 6.1 - 7.62 m Shuttle |
| 225 | 350 | 500 | Total Revenue Fleet at East Garage |

| Space Name | + | Initial Buildout 2020 | | | | Future 1st Expansion - Est 2035 | | | | Future Maximum Expansion - Est 2050 | | | | | | | | | | |
|------------|---|-----------------------|---------|---------|---------|---------------------------------|---------|---------|---------|-------------------------------------|---------|---------|---------|--|--|--|--|--|--|--|
| | | Qty | Area sf | Area sm | Remarks | Qty | Area sf | Area sm | Remarks | Qty | Area sf | Area sm | Remarks | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |

SHARED / COMMON SPACES, OPERATIONS, AND DRIVER'S AREA

| SHARED / COMMON SPACES | | | | | | | | | | | | | | | | | | | |
|------------------------|---|--|--|--|--|---|-------|--------|----------|---|-------|--------|----------|---|-------|--------|----------|--|--|
| Entry Vestibule | E | | | | | 1 | 162 | 15.07 | | 1 | 162 | 15.03 | | 1 | 162 | 15.03 | | | |
| Lobby / Waiting Area | O | | | | | 1 | 279 | 25.95 | | 1 | 279 | 25.89 | | 1 | 279 | 25.89 | | | |
| Cafeteria | | | | | | 1 | | | included | 1 | | | included | 1 | | | included | | |
| Dining Room | | | | | | 1 | 568 | 52.74 | | 1 | 567 | 52.72 | | 1 | 567 | 52.72 | | | |
| Serving Line | | | | | | 1 | 232 | 21.55 | | 1 | 232 | 21.57 | | 1 | 232 | 21.57 | | | |
| Kitchen | | | | | | 1 | 278 | 25.82 | | 1 | 278 | 25.80 | | 1 | 278 | 25.80 | | | |
| Lunch Room | | | | | | 1 | 1,114 | 103.47 | | 1 | 1,871 | 173.82 | | 1 | 1,871 | 173.82 | | | |
| Wellness Room | | | | | | 1 | 1,051 | 97.68 | | 1 | 1,810 | 168.12 | | 1 | 1,810 | 168.12 | | | |
| (FM) FM Work Area | A | | | | | 1 | | | included | 1 | | | included | 1 | | | included | | |
| IT / Data Switch Room | E | | | | | 1 | 333 | 30.89 | | 1 | 156 | 14.52 | | 1 | 156 | 14.52 | | | |

| OPERATIONS | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|--|--|--|--|---|-----|-------|----------|---|-------|--------|----------|---|-------|--------|----------|--|--|
| Reception | O | | | | | 1 | 69 | 6.38 | | 1 | 84 | 7.82 | | 1 | 84 | 7.82 | | | |
| Frontline Dispatch Counter | O | | | | | 1 | 154 | 14.34 | | 1 | 157 | 14.57 | | 1 | 157 | 14.57 | | | |
| Dispatch Workstation | O | | | | | 3 | 308 | 28.62 | | 6 | 619 | 57.51 | | 6 | 619 | 57.51 | | | |
| East Garage Manager | E | | | | | 1 | 220 | 20.40 | | 1 | 246 | 22.87 | | 1 | 246 | 22.87 | | | |
| Supervisor Suite | E | | | | | 1 | 412 | 38.30 | | 1 | 424 | 39.39 | | 1 | 424 | 39.39 | | | |
| Supervisor Workstation | O | | | | | 2 | | | included | 2 | | | included | 2 | | | included | | |
| Lead Hand Workstation | O | | | | | 1 | | | included | 1 | | | included | 1 | | | included | | |
| Accounting / Payroll / HR | E | | | | | 1 | 134 | 12.47 | | 1 | 141 | 13.13 | | 1 | 141 | 13.13 | | | |
| Office - hoteling / temp | E | | | | | 1 | 115 | 10.65 | | 1 | 115 | 10.65 | | 1 | 115 | 10.65 | | | |
| Assistant Chief Inspector | E | | | | | 1 | 114 | 10.57 | | 1 | 140 | 13.04 | | 1 | 140 | 13.04 | | | |
| Inspector Suite | E | | | | | 1 | 300 | 27.86 | | 1 | 453 | 42.09 | | 1 | 453 | 42.09 | | | |
| Transit Inspector | O | | | | | 2 | | | included | 4 | | | included | 4 | | | included | | |
| Radio | A | | | | | 1 | | | included | 1 | | | included | 1 | | | included | | |
| Inspector Lockers | A | | | | | 1 | | | included | 1 | | | included | 1 | | | included | | |
| Scheduler | O | | | | | 1 | 119 | 11.08 | | 1 | 78 | 7.24 | | 1 | 78 | 7.24 | | | |
| Time Keeper / Payroll Suite | E | | | | | 1 | 335 | 31.14 | | 1 | 376 | 34.93 | | 1 | 376 | 34.93 | | | |
| Time Keeper Workstation | O | | | | | 1 | | | included | 1 | | | included | 1 | | | included | | |
| Payroll Workstation | O | | | | | 1 | | | included | 1 | | | included | 1 | | | included | | |
| IT Workstation | O | | | | | 1 | 148 | 13.73 | | 2 | 320 | 29.73 | | 2 | 320 | 29.73 | | | |
| Video Review Workstation | E | | | | | 1 | 198 | 18.43 | | 1 | 175 | 16.30 | | 1 | 175 | 16.30 | | | |
| Open Workstations | O | | | | | 1 | 148 | 13.73 | | 2 | 143 | 13.25 | | 1 | 143 | 13.25 | | | |
| Security | O | | | | | 1 | 94 | 8.70 | | 1 | 80 | 7.45 | | 1 | 80 | 7.45 | | | |
| File / Storage Room | A | | | | | 1 | 50 | 4.65 | | 1 | 52 | 4.83 | | 1 | 52 | 4.83 | | | |
| Secure Storage | E | | | | | 1 | 68 | 6.35 | | 1 | 181 | 16.80 | | 1 | 181 | 16.80 | | | |
| Lost & Found Bin | A | | | | | 1 | 43 | 3.99 | | 1 | 42 | 3.91 | | 1 | 42 | 3.91 | | | |
| Break Room | | | | | | 1 | 835 | 77.61 | | 1 | 835 | 77.57 | | 1 | 835 | 77.57 | | | |
| Conference / Training Room - Large | E | | | | | 1 | 757 | 70.35 | | 2 | 1,214 | 112.74 | | 2 | 1,214 | 112.74 | | | |
| Conference / Training Room - Small | E | | | | | 2 | 747 | 69.38 | | 4 | 1,462 | 135.87 | | 4 | 1,462 | 135.87 | | | |
| Copy / Work Area | A | | | | | 1 | 61 | 5.68 | | 1 | 64 | 5.90 | | 1 | 64 | 5.90 | | | |
| Schedule Storage | E | | | | | 1 | 160 | 14.84 | | 1 | 167 | 15.53 | | 1 | 167 | 15.53 | | | |
| Men's Restroom | E | | | | | | | | | | | | | | | | | | |
| Women's Restroom | E | | | | | | | | | | | | | | | | | | |
| Custodial Room | E | | | | | | | | | | | | | | | | | | |



TRANSIT SATELLITE GARAGE - EASTERN CORRIDOR STUDY

The City of Winnipeg, MB
PRELIMINARY SPACE TAKE-OFFS PER PLANS

| 2020 | 2035 | 2050 | |
|------------|------------|------------|---|
| | 50 | 75 | 60' / 18.29 m Articulated Coach |
| 225 | 300 | 425 | 40' / 12.19 m Transit Coaches |
| | | | 45' / 13.72 m Double Decker Transit Coaches |
| | | | 30-35' / 9.14 - 10.67 m Transit Bus |
| | | | 20-25' / 6.1 - 7.62 m Shuttle |
| 225 | 350 | 500 | Total Revenue Fleet at East Garage |

Aug, 2019

[E] = Enclosed, [O] = Open/Workstation, [A] = Alcove,
 [C] = Canopy covered, [X] = Outdoors (exterior)

| Space Name | + | Initial Buildout 2020 | | | | Future 1st Expansion - Est 2035 | | | | Future Maximum Expansion - Est 2050 | | | |
|------------|---|-----------------------|---------|---------|---------|---------------------------------|---------|---------|---------|-------------------------------------|---------|---------|---------|
| | | Qty | Area sf | Area sm | Remarks | Qty | Area sf | Area sm | Remarks | Qty | Area sf | Area sm | Remarks |

| DRIVERS' AREA | | | | | | | | | | | | | | | | | |
|------------------------|---|--|--|--|--|---|-------|--------|----------|---|-------|--------|----------|---|-------|--------|----------|
| Information Center | E | | | | | 1 | 206 | 19.09 | | 1 | 301 | 27.96 | | 1 | 301 | 27.96 | |
| Drivers Lounge | E | | | | | | | - | | | | - | | | | - | |
| Locker Area | A | | | | | 1 | 1,054 | 97.90 | | 1 | 1,757 | 163.22 | | 1 | 1,757 | 163.22 | |
| Vending / Kitchenette | A | | | | | 1 | | - | included | 1 | | - | included | 1 | | - | included |
| TV Room | E | | | | | 1 | 338 | 31.40 | | 1 | 227 | 21.13 | | 1 | 227 | 21.13 | |
| Quiet Room | E | | | | | 1 | 203 | 18.86 | | 1 | 334 | 31.05 | | 2 | 334 | 31.05 | |
| Prayer / Smudging Room | E | | | | | 1 | 188 | 17.44 | | 1 | 187 | 17.36 | | 1 | 187 | 17.36 | |
| Depot Storage | E | | | | | 1 | 98 | 9.10 | | 1 | 283 | 26.29 | | 1 | 283 | 26.29 | |
| Men Restroom | E | | | | | 1 | 1,112 | 103.28 | | 1 | 1,883 | 174.92 | | 1 | 1,883 | 174.92 | |
| Women's Restroom | E | | | | | 1 | 647 | 60.11 | | 1 | 1,019 | 94.66 | | 1 | 1,019 | 94.66 | |
| Custodial Room | E | | | | | 1 | 243 | 22.61 | | 1 | 205 | 19.07 | | 1 | 205 | 19.07 | |
| Mechanical Room | E | | | | | 1 | 291 | 27.01 | | 1 | 238 | 22.13 | | 1 | 238 | 22.13 | |
| Electrical Room | E | | | | | 1 | 128 | 11.93 | | 1 | 159 | 14.73 | | 1 | 159 | 14.73 | |
| Water Entry | E | | | | | 1 | 144 | 13.34 | | 1 | 261 | 24.22 | | 1 | 261 | 24.22 | |

| | | | | | | | | | | | | | |
|---|--|--|--------|--------|--|--|--------|--------|--|--|--------|--------|--|
| Shared / Common Spaces, Operations and Driver's Area Subtotal | | | 14,256 | 432.07 | | | 19,777 | 636.75 | | | 19,777 | 636.75 | |
| Circulation | | | 4,152 | 385.69 | | | 5,663 | 526.14 | | | 5,663 | 526.14 | |

| | | | | | | | | | | | | | |
|--|--|--|---------------|---------------|--|--|---------------|-----------------|--|--|---------------|-----------------|--|
| SHARED / COMMON SPACES, OPERATIONS AND DRIVER'S AREA TOTALS | | | 18,408 | 817.77 | | | 25,440 | 1,162.89 | | | 25,440 | 1,162.89 | |
|--|--|--|---------------|---------------|--|--|---------------|-----------------|--|--|---------------|-----------------|--|

MAINTENANCE -VEHICLE SYSTEMS - SUPPORT, MAINTENANCE - FACILITY, STORES / PARTS, AND MAINTENANCE -VEHICLE SYSTEMS - SHOPS

| MAINTENANCE - VEHICLE SYSTEMS - SUPPORT | | | | | | | | | | | | | | | | | |
|---|---|--|--|--|--|---|-------|--------|----------|---|-------|--------|----------|---|-------|--------|----------|
| Maintenance Superintendent | E | | | | | 1 | 288 | 26.78 | | 2 | 490 | 45.56 | | 2 | 490 | 45.56 | |
| Maintenance Supervisors | E | | | | | 3 | 670 | 62.27 | | 5 | 1,120 | 104.04 | | 5 | 1,120 | 104.04 | |
| Maintenance Office Suite | E | | | | | | | - | | | | - | | | | - | |
| Maint Clerks | O | | | | | 2 | 198 | 18.39 | | 2 | 198 | 18.43 | | 2 | 198 | 18.43 | |
| Electrical Clerks | O | | | | | | | | | 1 | 98 | 9.12 | | 1 | 98 | 9.12 | |
| Engine Clerks | O | | | | | | | | | 1 | 82 | 7.61 | | 1 | 82 | 7.61 | |
| FM Clerk | O | | | | | | | | | 1 | 98 | 9.12 | | 1 | 98 | 9.12 | |
| Bus Servicing Clerks | O | | | | | 1 | 94 | 8.75 | | 2 | 170 | 15.83 | | 2 | 170 | 15.83 | |
| File Storage | E | | | | | 1 | 128 | 11.93 | | 1 | 128 | 11.93 | | 1 | 128 | 11.93 | |
| Maintenance Manual Library | E | | | | | 1 | 91 | 8.45 | | 1 | 95 | 8.83 | | 1 | 95 | 8.83 | |
| Copy / Work Area | A | | | | | 1 | 104 | 9.70 | | 1 | 119 | 9.70 | | 1 | 119 | 11.03 | |
| Archive Storage - Vehicle Maintenance | E | | | | | 1 | 223 | 20.72 | | 2 | 345 | 32.08 | | 2 | 345 | 32.08 | |
| Training Suite | E | | | | | 1 | 260 | 24.15 | | 1 | 260 | 24.15 | | 1 | 260 | 24.15 | |
| Trainer Workstation | O | | | | | 1 | | - | included | 1 | | - | included | 1 | | - | included |
| Training / Conference Room | E | | | | | 2 | 719 | 66.76 | | 4 | 1,408 | 130.80 | | 4 | 1,408 | 130.80 | |
| Training Storage Room | E | | | | | | | - | | | | - | | 1 | | - | |
| Training Table & Chair Storage | E | | | | | 1 | 169 | 15.71 | | 1 | 181 | 16.78 | | 2 | 181 | 16.78 | |
| Service / Mechanics Lunch / Vend | | | | | | 1 | 651 | 60.44 | | 1 | 668 | 62.06 | | 1 | 668 | 62.06 | |
| Laundry Service Lockers | A | | | | | 1 | 303 | 28.14 | | 1 | 305 | 28.33 | | 1 | 305 | 28.33 | |
| Men's Restroom / Locker / Shower | E | | | | | 1 | 1,366 | 126.86 | | 1 | 2,031 | 188.70 | | 2 | 2,031 | 188.70 | |
| Women's Restroom / Locker / Shower | E | | | | | 1 | 384 | 35.67 | | 1 | 644 | 59.79 | | 2 | 644 | 59.79 | |

| MAINTENANCE - VEHICLES SYSTEMS - SHOPS | | | | | | | | | | | | | | | | | |
|--|---|--|--|--|--|---|-----|-------|--|---|-----|-------|--|---|-----|-------|--|
| Electronics Shop | E | | | | | 1 | 693 | 64.36 | | 1 | 670 | 62.26 | | 1 | 670 | 62.26 | |



TRANSIT SATELLITE GARAGE - EASTERN CORRIDOR STUDY

The City of Winnipeg, MB
PRELIMINARY SPACE TAKE-OFFS PER PLANS

| 2020 | 2035 | 2050 | |
|------------|------------|------------|---|
| | 50 | 75 | 60' / 18.29 m Articulated Coach |
| 225 | 300 | 425 | 40' / 12.19 m Transit Coaches |
| | | | 45' / 13.72 m Double Decker Transit Coaches |
| | | | 30-35' / 9.14 - 10.67 m Transit Bus |
| | | | 20-25' / 6.1 - 7.62 m Shuttle |
| 225 | 350 | 500 | Total Revenue Fleet at East Garage |

Aug, 2019

[E] = Enclosed, [O] = Open/Workstation, [A] = Alcove,
 [C] = Canopy covered, [X] = Outdoors (exterior)

| Space Name | + | Initial Buildout 2020 | | | | Future 1st Expansion - Est 2035 | | | | Future Maximum Expansion - Est 2050 | | | |
|------------|---|-----------------------|---------|---------|---------|---------------------------------|---------|---------|---------|-------------------------------------|---------|---------|---------|
| | | Qty | Area sf | Area sm | Remarks | Qty | Area sf | Area sm | Remarks | Qty | Area sf | Area sm | Remarks |

MAINTENANCE - FACILITY

| | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|--|--|--|--|---|-------|--------|---|---|-------|--------|---|---|-------|--------|---|
| Building Maintenance Supervisor | E | | | | | 1 | 211 | 19.61 | | 2 | 439 | 40.79 | | 2 | 439 | 40.79 | |
| Maintenance - Facility Office Suite | E | | | | | 1 | 567 | 52.69 | | 1 | 599 | 55.69 | | 1 | 599 | 55.69 | |
| Drawings / Records | A | | | | | 2 | | - | included | 2 | | - | included | 2 | | - | included |
| Clerk | O | | | | | 1 | | - | Area within FM Suite | 1 | | - | Area within FM Suite | 1 | | - | Area within FM Suite |
| Maintenance - Facility Office Suite | E | | | | | 1 | | - | | 1 | | - | | 1 | | - | |
| FM Coordinator | O | | | | | 1 | 97 | 9.04 | Included in FM Office Suite area | 1 | 97 | 9.01 | Included in FM Office Suite area | 1 | 104 | 9.65 | Included in FM Office Suite area |
| FM Charge Hand | O | | | | | 1 | 97 | 9.04 | Included in FM Office Suite area | 1 | 97 | 9.01 | Included in FM Office Suite area | 1 | 97 | 9.01 | Included in FM Office Suite area |
| Maintenance - Loops Office Suite | E | | | | | 1 | | - | | 1 | | - | | 1 | | - | |
| Loop Coordinator | O | | | | | 1 | 85 | 7.91 | Included in Loops Office Suite area | 1 | 85 | 7.92 | Included in Loops Office Suite area | 1 | 85 | 7.92 | Included in Loops Office Suite area |
| Loop Charge Lead Hand | O | | | | | 1 | 95 | 8.83 | Included in Loops Office Suite area | 1 | 95 | 8.83 | Included in Loops Office Suite area | 1 | 97 | 8.97 | Included in Loops Office Suite area |
| Maintenance - Facility Training | E | | | | | | | - | Share Training Suite with Maintenance - Vehicle | | | - | Share Training Suite with Maintenance - Vehicle | | | - | Share Training Suite with Maintenance - Vehicle |
| Wood Working Shop | E | | | | | 1 | 2,117 | 196.71 | | 1 | 4,615 | 428.75 | | 1 | 4,615 | 428.75 | |
| Wood Working Shop Office | E | | | | | 1 | 205 | 19.04 | | 1 | 205 | 19.05 | | 1 | 205 | 19.05 | |
| HVAC / Industrial Mech Shop | E | | | | | | | | | 1 | 1,282 | 119.06 | | 1 | 1,282 | 119.06 | |
| HVAC / Industrial Shop Office | E | | | | | | | | | 1 | 151 | 14.04 | | 1 | 151 | 14.04 | |
| Electrical - FM Shop | E | | | | | | | | | 1 | 1,599 | 148.51 | | 1 | 1,599 | 148.51 | |
| Electrical FM Shop Office | E | | | | | | | | | 1 | 223 | 20.76 | | 1 | 223 | 20.76 | |
| FM Stores | E | | | | | 1 | 2,597 | 241.24 | | 1 | 2,597 | 241.27 | | 2 | 2,597 | 241.27 | |
| Custodial | E | | | | | 1 | | - | included | 1 | | - | included | 1 | | - | included |
| Mechanical | E | | | | | 1 | | - | included | 1 | | - | included | 1 | | - | included |
| Electrical | E | | | | | 1 | | - | included | 1 | | - | included | 1 | | - | included |

STORES / PARTS

| | | | | | | | | | | | | | | | | | |
|----------------------------|---|--|--|--|--|---|-------|--------|---|---|--------|---------|---|---|--------|----------|---|
| Stores | E | | | | | 1 | 8,386 | 779.07 | | 1 | 11,232 | 1043.51 | | 1 | 11,232 | 1,043.51 | |
| Stores Manager | E | | | | | 1 | 220 | 20.40 | | 1 | 220 | 20.40 | | 1 | 220 | | |
| Warehouse Tech | O | | | | | 1 | 97 | 8.98 | Area within Stores SF | 1 | 97 | 8.98 | Area within Stores SF | 1 | 97 | | Area within Stores SF |
| Parts Counter | O | | | | | 1 | 240 | 22.26 | | 1 | 240 | 22.30 | | 1 | 240 | 22.30 | |
| Cycle Counter | O | | | | | 1 | 94 | 8.73 | | 1 | 94 | 8.73 | | 1 | 94 | 8.73 | |
| Secure Storage / Tool Crib | E | | | | | 1 | 512 | 47.55 | | 1 | 512 | 47.55 | | 1 | 512 | 47.55 | |
| Shipping Receiving | A | | | | | 1 | 1,136 | 105.57 | | 1 | 1,136 | 105.54 | | 1 | 1,136 | 105.54 | |
| Consumables Area | A | | | | | 1 | 385 | 35.78 | | 1 | 385 | 35.77 | | 2 | 385 | 35.77 | |
| Archives - Stores | A | | | | | 1 | 229 | 21.29 | | 1 | 229 | 21.27 | | 1 | 229 | 21.27 | |
| Uniform | | | | | | | | | | | | | | | | | |
| Distribution | A | | | | | 1 | 194 | 17.98 | | 1 | 194 | 18.02 | | 1 | 194 | 18.02 | |
| Uniform Supervisor | O | | | | | 1 | 109 | 10.16 | Workstation located within Uniform Storage Room | 1 | 109 | | Workstation located within Uniform Storage Room | 1 | 109 | 10.13 | Workstation located within Uniform Storage Room |
| Uniform Storage | E | | | | | 1 | 957 | 88.94 | | 1 | 1,045 | | | 1 | 1,045 | 97.05 | |
| Dressing Room | E | | | | | | | - | | | | - | | | | - | |
| Coffee Bar | A | | | | | | | - | | | | - | | | | - | |
| Unisex Restroom | E | | | | | 1 | 116 | 10.74 | | 1 | 116 | 10.74 | | 1 | 116 | 10.74 | |
| Canopy Covered Storage | C | | | | | 1 | 1,029 | 95.60 | | 1 | 1,029 | 95.61 | | 1 | 1,029 | 95.61 | |

| | | | | | | | | | | | | | |
|--|--|--|--------|----------|--|--|--------|----------|--|--|--------|----------|--|
| Maint.-Vehicle Syst-Support, Maint.-Facility, Maint.-Vehicles Syst-Shops and Stores/Parts Subtotal | | | 26,116 | 1,273.03 | | | 37,832 | 1,438.41 | | | 37,841 | 1,516.21 | |
| Circulation-People | | | 2,635 | 244.82 | | | 5,021 | 466.45 | | | 5,021 | - | |

| | | | | | | | | | | | | | |
|--|--|--|---------------|-----------------|--|--|---------------|-----------------|--|--|---------------|-----------------|--|
| Maint.-Vehicle Syst-Support, Maint.-Facility, Maint.-Vehicles Syst-Shops and Stores/Parts Total | | | 28,751 | 1,517.85 | | | 42,853 | 1,904.86 | | | 42,862 | 1,516.21 | |
|--|--|--|---------------|-----------------|--|--|---------------|-----------------|--|--|---------------|-----------------|--|

TRANSIT SATELLITE GARAGE - EASTERN CORRIDOR STUDY

The City of Winnipeg, MB
PRELIMINARY SPACE TAKE-OFFS PER PLANS

| 2020 | 2035 | 2050 | |
|------------|------------|------------|---|
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| 225 | 300 | 425 | 40' / 12.19 m Transit Coaches |
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Aug, 2019

[E] = Enclosed, [O] = Open/Workstation, [A] = Alcove,
 [C] = Canopy covered, [X] = Outdoors (exterior)

| Space Name | Initial Buildout 2020 | | | | Future 1st Expansion - Est 2035 | | | | Future Maximum Expansion - Est 2050 | | | |
|------------|-----------------------|---------|---------|---------|---------------------------------|---------|---------|---------|-------------------------------------|---------|---------|---------|
| | Qty | Area sf | Area sm | Remarks | Qty | Area sf | Area sm | Remarks | Qty | Area sf | Area sm | Remarks |

MAINTENANCE - VEHICLES SYSTEMS - SHOPS

| | | | | | | | | | | | | |
|---|---|---|--------|----------|----|---------|----------|----------|----|--------|----------|----------|
| In-Ground Lift Repair Bays | | | | | | | | | | | | |
| Articulated bus | O | | | | 3 | 4,538 | 421.60 | | 7 | 10,585 | 983.36 | |
| Transit bus | O | 9 | 11,274 | 1,047.41 | 15 | 16,567 | 1,539.15 | | 26 | 28,913 | 2,686.08 | |
| Platform Lift Repair Bays | | | | | | | | | | | | |
| Articulated bus | O | 1 | 1,793 | 166.55 | 1 | 1,512 | 140.48 | | 1 | 1,512 | 140.48 | |
| Electronics Bay | O | | | | 1 | 1,512 | 140.48 | | 1 | 1,512 | 140.48 | |
| Common Work Area | A | 1 | 1,567 | 145.58 | 1 | 1,567 | 145.58 | | 2 | 3,134 | 291.16 | |
| Tire Bay | E | 1 | 2,257 | 209.67 | 1 | 1,512 | 140.48 | | 2 | 3,024 | 280.96 | |
| Tire Storage | O | 1 | 2,695 | 250.41 | 1 | 1,512 | 140.48 | | 1 | 1,512 | 140.48 | |
| Minor Body Repair / Prep Bay | E | 1 | 2,270 | 210.88 | 2 | 4,553 | 422.95 | | 3 | 4,553 | 422.95 | |
| Paint Booth - Articulated | E | | | | 1 | 2,674 | 248.42 | | 1 | 2,674 | 248.42 | |
| Paint Booth - Transit Bus | E | 1 | 2,747 | 255.20 | 1 | 2,677 | 248.73 | | 1 | 2,677 | 248.73 | |
| Paint Mix | E | 1 | 218 | 20.24 | 1 | 227 | 21.10 | | 1 | 227 | 21.10 | |
| Central Dust Collection | C | 1 | 723 | 67.18 | 1 | 723 | 67.18 | | 1 | 723 | 67.18 | |
| Body Shop | A | 1 | 1,337 | 124.24 | 1 | 1,362 | 126.55 | | 1 | 1,362 | 126.55 | |
| Upholstery Shop | A | 1 | 635 | 58.99 | 1 | 668 | 62.09 | | 1 | 668 | 62.09 | |
| Body Shop Storage | A | 1 | 1,083 | 100.65 | 1 | 2,675 | 248.48 | | 2 | 2,675 | 248.48 | |
| Battery Charging | E | 1 | 597 | 55.50 | 1 | 597 | 55.50 | | 2 | 597 | 55.50 | |
| Light Duty Bay - Hoist | O | 2 | 2,204 | 204.71 | 2 | 2,204 | 204.71 | | 4 | 4,407 | 409.45 | |
| Light Duty Bay - Flat | O | 1 | 1,100 | 102.18 | 1 | 1,100 | 102.18 | | 2 | 2,202 | 204.55 | |
| Chassis Wash - Articulated | E | | | | 1 | 1,514 | 140.64 | | 1 | 1,514 | 140.64 | |
| Chassis Wash - Transit bus | E | 1 | 1,563 | 145.17 | 1 | 1,514 | 140.64 | | 1 | 1,514 | 140.64 | |
| Chassis Wash Equipment Room | A | 1 | | - | 2 | | - | included | 2 | | - | included |
| Component Clean | A | 1 | | - | 1 | | - | included | 1 | | - | included |
| Portable Equipment / Tool Box Storage | O | 2 | 2,201 | 204.52 | 3 | 3,944.3 | 366.44 | | 5 | 5,502 | 511.17 | |
| Shop Storage | O | 1 | | - | | | - | included | | | - | included |
| Forklift / Scissor Lift / Sweeper Parking | O | 1 | | - | | | - | included | | | - | included |
| Uni-sex Toilet (Shop) | E | | | | | | | | | | | |
| Lube / Compressor Room | E | 1 | 1,101 | 102.28 | 1 | 1,101 | 102.28 | | 1 | 1,101 | 102.28 | |
| Custodial | E | | | - | | | - | | | | - | |
| Mechanical Room | E | | | | | | | | | | | |
| Electrical Room | E | | | | | | | | | | | |

| | | | | | | | | | | | | |
|-----------------------|--|--|--------|----------|--|--------|-----------|--|--|--------|-----------|--|
| Subtotal | | | 37,365 | 3,471.35 | | 56,254 | 5,226.15 | | | 82,589 | 7,672.73 | |
| Circulation -People | | | 2,953 | 274.30 | | 3,114 | 10,452.30 | | | 3,114 | 15,345.45 | |
| Circulation -Vehicles | | | 23,801 | 2,211.21 | | 33,800 | 20,904.60 | | | 55,270 | 30,690.91 | |

| | | | | | | | | | | | | |
|--|--|--|---------------|-----------------|--|---------------|------------------|--|--|----------------|------------------|--|
| MAINTENANCE - VEHICLES SYSTEMS - SHOPS TOTALS | | | 64,119 | 5,956.86 | | 93,169 | 36,583.04 | | | 140,973 | 53,709.09 | |
|--|--|--|---------------|-----------------|--|---------------|------------------|--|--|----------------|------------------|--|



TRANSIT SATELLITE GARAGE - EASTERN CORRIDOR STUDY

The City of Winnipeg, MB
PRELIMINARY SPACE TAKE-OFFS PER PLANS

| 2020 | 2035 | 2050 | |
|------------|------------|------------|---|
| | 50 | 75 | 60' / 18.29 m Articulated Coach |
| 225 | 300 | 425 | 40' / 12.19 m Transit Coaches |
| | | | 45' / 13.72 m Double Decker Transit Coaches |
| | | | 30-35' / 9.14 - 10.67 m Transit Bus |
| | | | 20-25' / 6.1 - 7.62 m Shuttle |
| 225 | 350 | 500 | Total Revenue Fleet at East Garage |

Aug, 2019

[E] = Enclosed, [O] = Open/Workstation, [A] = Alcove,
 [C] = Canopy covered, [X] = Outdoors (exterior)

| Space Name | + | Initial Buildout 2020 | | | | Future 1st Expansion - Est 2035 | | | | Future Maximum Expansion - Est 2050 | | | |
|------------|---|-----------------------|---------|---------|---------|---------------------------------|---------|---------|---------|-------------------------------------|---------|---------|---------|
| | | Qty | Area sf | Area sm | Remarks | Qty | Area sf | Area sm | Remarks | Qty | Area sf | Area sm | Remarks |

| SERVICE - VEHICLES | | | | | | | | | | | | | | | | | |
|------------------------------------|---|--|--|--|--|---|-------|--------|------------------------------|---|-------|--------|------------------------------|---|-------|--------|------------------------------|
| Fueling Position - Articulated | C | | | | | 6 | 8,998 | 835.91 | | 6 | 8,998 | 835.91 | | 6 | 8,998 | 835.91 | |
| Vault Pull | C | | | | | 4 | | | | 6 | | | | 6 | | | |
| Fuel Island Suite | E | | | | | 1 | 2,800 | 260.13 | | 1 | 2,800 | 260.13 | | 1 | 2,800 | 260.13 | |
| Fuel Island IT / Data room | E | | | | | 1 | | - | included | 1 | | - | included | 1 | | - | included |
| Fuel Island Storage | E | | | | | 1 | | - | included | 1 | | - | included | 1 | | - | included |
| Central Vacuum Equipment Room | E | | | | | 1 | | - | included | 1 | | - | included | 1 | | - | included |
| Fueling Lube Room | E | | | | | 1 | | - | included | 2 | | - | included | 1 | | - | included |
| Bus Wash Bay | E | | | | | 3 | 7,585 | 704.66 | | 3 | 7,585 | 704.66 | | 3 | 7,585 | 704.66 | |
| Bus Wash Equipment | E | | | | | 1 | 1,402 | 130.21 | | 1 | 1,402 | 130.21 | | 1 | 1,402 | 130.21 | |
| Interior Chassis Wash -Articulated | C | | | | | | | | | 1 | 1,805 | 167.73 | | 1 | 1,828 | 169.85 | |
| Interior Chassis Wash - Transit | E | | | | | 2 | 3,334 | 309.77 | | 1 | 1,805 | 167.73 | | 1 | 1,783 | 165.61 | |
| Interior Chassis Wash Common Work | A | | | | | | | | | | | | | | | | |
| Interior Chassis Wash Storage | E | | | | | 1 | 304 | 28.22 | | 1 | 310 | 28.22 | | 1 | 310 | 28.75 | |
| Vacuum system | E | | | | | 1 | 108 | 10.03 | | 1 | 108 | 10.03 | | 1 | | - | |
| Advertising Board Storage | E | | | | | 1 | | - | included in common work area | 1 | | - | included in common work area | 1 | | - | included in common work area |
| Custodial | E | | | | | 1 | | - | included in common work area | 1 | | - | included in common work area | 1 | | - | included in common work area |
| Mechanical | E | | | | | 1 | | - | included in common work area | 1 | | - | included in common work area | 1 | | - | included in common work area |
| Electrical | E | | | | | 1 | | - | included in common work area | 1 | | - | included in common work area | 1 | | - | included in common work area |

| | | | | | | | | | | | | | |
|-------------|--|--|--------|----------|--|--|--------|----------|--|--|--------|----------|--|
| Subtotal | | | 24,530 | 2,278.93 | | | 24,812 | 2,304.62 | | | 24,704 | 2,295.12 | |
| Circulation | | | | | | | | | | | | | |

| | | | | | | | | | | | | | |
|----------------------------------|--|--|---------------|-----------------|--|--|---------------|-----------------|--|--|---------------|-----------------|--|
| SERVICE - VEHICLES TOTALS | | | 24,530 | 2,278.93 | | | 24,812 | 2,304.62 | | | 24,704 | 2,295.12 | |
|----------------------------------|--|--|---------------|-----------------|--|--|---------------|-----------------|--|--|---------------|-----------------|--|

| SITE AREAS | | | | | | | | | | | | | | | | | |
|--------------------------------|---|--|--|--|--|---|-------|--------|----------|---|-------|--------|----------|---|-------|--------|----------|
| Emergency Generator | O | | | | | 1 | 500 | 46.45 | | 1 | 500 | 46.45 | | 2 | 1,000 | 92.90 | |
| Smoking Patio | C | | | | | | | | | | | | | | | | |
| Wood Working Shop Yard Storage | O | | | | | | 5,161 | 479.45 | | 1 | 5,257 | 488.36 | | 1 | 8,473 | 787.16 | |
| Garbage / Recycling | | | | | | | | | | | | | | | | | |
| Trash | C | | | | | 1 | 48 | 4.46 | | 1 | 48 | 4.46 | | 1 | 48 | 4.46 | |
| Cardboard | C | | | | | 1 | 48 | 4.46 | | 1 | 48 | 4.46 | | 1 | 48 | 4.46 | |
| Metal - Steel | C | | | | | | | | | | | | | | | | |
| Metal - Aluminum | C | | | | | | | | | | | | | | | | |
| Plastic | C | | | | | | | | | | | | | | | | |
| Paper Recycling | C | | | | | | | | | | | | | | | | |
| Organic Waste / Compost | C | | | | | 1 | 6 | 0.56 | | 1 | 6 | 0.56 | | 1 | 6 | 0.56 | |
| Waste Water Treatment Plant | E | | | | | 1 | 390 | 36.23 | | 1 | 390 | 36.23 | | 1 | 390 | 36.23 | |
| Liquid Fuel Tank Farm | | | | | | | | | | | | | | | | | |
| Diesel | O | | | | | 3 | 3,448 | 320.34 | | 3 | 3,448 | 320.34 | | 3 | 3,448 | 320.34 | |
| Windshield Washer Fluid | O | | | | | | | | | | | | | | | | |
| Loading Dock | C | | | | | 1 | | - | included | 1 | | - | included | 1 | | - | included |
| Lost & Found Yard Locker | C | | | | | 1 | 100 | 9.29 | | 1 | 100 | 9.29 | | 1 | 100 | 9.29 | |

| | | | | | | | | | | | | | |
|-------------|--|--|-------|--------|--|--|-------|--------|--|--|--------|----------|--|
| Subtotal | | | 9,701 | 901.24 | | | 9,797 | 910.15 | | | 13,513 | 1,255.41 | |
| Circulation | | | | | | | | | | | | | |

| | | | | | | | | | | | | | |
|--------------------------|--|--|--------------|------------|--|--|--------------|---------------|--|--|---------------|-----------------|--|
| SITE AREAS TOTALS | | | 9,701 | 901 | | | 9,797 | 910.15 | | | 13,513 | 1,255.41 | |
|--------------------------|--|--|--------------|------------|--|--|--------------|---------------|--|--|---------------|-----------------|--|

TRANSIT SATELLITE GARAGE - EASTERN CORRIDOR STUDY

The City of Winnipeg, MB
PRELIMINARY SPACE TAKE-OFFS PER PLANS

| 2020 | 2035 | 2050 | |
|------------|------------|------------|---|
| | 50 | 75 | 60' / 18.29 m Articulated Coach |
| 225 | 300 | 425 | 40' / 12.19 m Transit Coaches |
| | | | 45' / 13.72 m Double Decker Transit Coaches |
| | | | 30-35' / 9.14 - 10.67 m Transit Bus |
| | | | 20-25' / 6.1 - 7.62 m Shuttle |
| 225 | 350 | 500 | Total Revenue Fleet at East Garage |

Aug, 2019

[E] = Enclosed, [O] = Open/Workstation, [A] = Alcove,
 [C] = Canopy covered, [X] = Outdoors (exterior)

| Space Name | + | Initial Buildout 2020 | | | | Future 1st Expansion - Est 2035 | | | | Future Maximum Expansion - Est 2050 | | | |
|------------|---|-----------------------|---------|---------|---------|---------------------------------|---------|---------|---------|-------------------------------------|---------|---------|---------|
| | | Qty | Area sf | Area sm | Remarks | Qty | Area sf | Area sm | Remarks | Qty | Area sf | Area sm | Remarks |

AGENCY VEHICLE PARKING - INTERIOR SPACES

| | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|--|--|--|-----|---------|-----------|----------|-----|-----------|-----------|-------------------------------------|--|-----|---------|-----------|-------------------------------------|--|--|
| Ready Line | | | | | | | | | | | | | | | | | | | |
| Articulated Bus 60' / 18.29 m | E | | | | | | | | 53 | 50330 | 4,675.81 | | | 75 | 68,594 | 6,372.58 | | | |
| Transit Bus 40' / 12.19 m | E | | | | 242 | 149,072 | 13,849.24 | | 300 | 185373.42 | 17,221.75 | | | 425 | 268,908 | 24,982.40 | | | |
| Double Decker Transit Coach 45' / 13. | E | | | | | | | | | | | | | | | | | | |
| Transit Bus 30-35' / 9.14-10.67 m | E | | | | | | | | | | | | | | | | | | |
| Shuttle 20 -25' / 6.1 -7.62 m | E | | | | | | | | | | | | | | | | | | |
| Bad Order Line | | | | | | | | | | | | | | | | | | | |
| Articulated Bus 60' / 18.29 m | E | | | | | | | | | | - | Bad Order vehicles parked in tracks | | | | - | Bad Order vehicles parked in tracks | | |
| Transit Bus 40' / 12.19 m | E | | | | | | | | | | - | Bad Order vehicles parked in tracks | | | | - | Bad Order vehicles parked in tracks | | |
| Double Decker Transit Coach 45' / 13. | E | | | | | | | | | | | Bad Order vehicles parked in tracks | | | | | Bad Order vehicles parked in tracks | | |
| Transit Bus 30-35' / 9.14-10.67 m | E | | | | | | | | | | | Bad Order vehicles parked in tracks | | | | | Bad Order vehicles parked in tracks | | |
| Shuttle 20 -25' / 6.1 -7.62 m | E | | | | | | | | | | | Bad Order vehicles parked in tracks | | | | | Bad Order vehicles parked in tracks | | |
| Bicycle Parking | O | | | | 1 | | | included | 3 | | | included | | 1 | | | included | | |
| Non-Revenue Vehicles | C | | | | 50 | 10,000 | 929.03 | | 75 | 15,000 | 1393.55 | | | 95 | 19,000 | 1,765.16 | | | |

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|--|---------|-----------|--|--|--|--|---------|-----------|--|--|--|---------|-----------|--|--|--|
| Subtotal | | | 159,072 | 14,778.27 | | | | | 250,703 | 23,291.11 | | | | 356,502 | 33,120.14 | | | |
| Circulation (bus parking area) | | | 113,830 | 10,575.11 | | | | | 171,657 | - | | | | 197,592 | 18,356.86 | | | |

| | | | | | | | | | | | | | | | | | | |
|--|--|--|----------------|------------------|--|--|--|--|----------------|------------------|--|--|--|----------------|------------------|--|--|--|
| AGENCY VEHICLE PARKING - INTERIOR SPACES TOTALS | | | 272,902 | 25,353.38 | | | | | 422,361 | 23,291.11 | | | | 554,094 | 51,476.99 | | | |
|--|--|--|----------------|------------------|--|--|--|--|----------------|------------------|--|--|--|----------------|------------------|--|--|--|

EMPLOYEE / VISITOR VEHICLE PARKING - EXTERIOR SPACES

| | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|--|--|--|-----|--------|----------|----------|-----|--------|----------|----------|-----|---------|----------|----------|--|--|
| Employee Parking | O | | | | 301 | 61,148 | 5,680.88 | | 391 | 77,548 | 7,204.48 | | 571 | 104,348 | 9,694.29 | | | |
| Visitor Parking | O | | | | 10 | 2,000 | 185.81 | | 10 | 2,000 | 185.81 | | 10 | 2,000 | 185.81 | | | |
| Handicap Accessible Parking | O | | | | 15 | 3,000 | 278.71 | | 21 | 5,200 | 483.09 | | 31 | 8,200 | 761.80 | | | |
| Motorcycle Parking | O | | | | 5 | | | included | 8 | | | included | 10 | | | included | | |
| Bicycle Parking | O | | | | 1 | | | included | 3 | | | included | 3 | | | included | | |

| | | | | | | | | | | | | | | | | | | |
|-------------|--|--|--------|----------|--|--|--|--|--------|----------|--|--|--|---------|-----------|--|--|--|
| Subtotal | | | 66,148 | 6,145.39 | | | | | 84,748 | 7,873.39 | | | | 114,548 | 10,641.90 | | | |
| Circulation | | | 42,459 | 3,944.53 | | | | | 58,921 | 5,473.95 | | | | 88,971 | 8,265.68 | | | |

| | | | | | | | | | | | | | | | | | | |
|--|--|--|----------------|------------------|--|--|--|--|----------------|------------------|--|--|--|----------------|------------------|--|--|--|
| EMPLOYEE / VISITOR VEHICLE PARKING - EXTERIOR SPACES TOTALS | | | 108,607 | 10,089.92 | | | | | 143,670 | 13,347.33 | | | | 203,519 | 18,907.57 | | | |
|--|--|--|----------------|------------------|--|--|--|--|----------------|------------------|--|--|--|----------------|------------------|--|--|--|

