

The Soldier and Ground Systems
Life Cycle Management Command

Base Realignment Around Competencies *Transformation Overview*

Presented to:
Mr. Samuel K. Skinner
BRAC Commissioner

29 July 2005



FOR OFFICIAL USE ONLY*

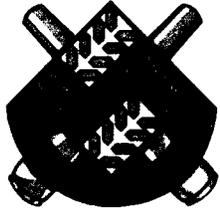
	ITINERARY FOR THE VISIT OF MR. SAMUEL SKINNER BRAC COMMISSIONER	
<u>ADDITIONAL VISITORS</u> Mr. Mike Kuiken, SASC Professional Staffer Ms. Valerie Mills, Staffer Ms. Vicki Selva, Regional Rep. for Senator Levin Mr. Larry Wallach, Rep. for Senator Stabenow Ms. Judy Hartwell, Rep. for Congressman S. Levin Ms. Nancy White, Chair of Macomb County Board of Commissioners LTC Antonio Baines, Army Legislative Liaison	<u>LODGING</u> (as of 28 Jul 05) #2 N/A	ETA – 0818 Hrs, 29 Jul 05, Detroit Metro ETD – 1200 Hrs, 29 Jul 05, SANGB (mil air)
<u>PROJECT OFFICER</u> Ms. Lisa Schmittling Strategic Planning Analyst Office of the G-3 (586) 574-5673	<u>HOST/ESCORT OFFICER</u> Mr. Robert Graves Deputy Cdr, US Army Garrison- Michigan (USAG-M) (586) 574-5115	<u>PROTOCOL OFFICER</u> Ms. Patricia Kotovich Command Protocol Officer (586) 574-5805

FRIDAY, 29 JULY 2005

<u>TIME</u>	<u>ACTIVITY</u>	<u>CONTACT</u>
0915 (approx)	Arrive TACOM, Gate 38	Ms. Mills
0915-0920	Met by Mr. Graves & Ms. Mills, Drive to Bldg 230 (park in Glancy Circle)	Mr. Graves/Ms. Mills
0920-0925	Walk to 2 nd Floor	Mr. Graves
0925-0945	Preparation for meeting (Mr. Skinner & Ms. Mills) – Room 209C (across from CG's office)	Mr. Graves
0945-1015	Welcome by MG Mike Lenaers via DTV (Conf Room 252W1)	MG Lenaers
1000	Briefers/Attendees arrive in Conf Room 252W1	
1015-1100	TACOM LCMC Overview/ Discussion	Mr. Jack Dugan Deputy to the Commander
	USAG-M, Detroit Arsenal Facilities Overview/Discussion	Mr. Graves

FRIDAY, 29 JULY 2005 (cont'd)

<u>TIME</u>	<u>ACTIVITY</u>	<u>CONTACT</u>
1100-1115	Windshield Tour of Detroit Arsenal (govt vehicle)	Mr. Graves
1115-1145	Depart TACOM, enroute to Selfridge ANG Base Operations (rental car)	Ms. Mills
1200	Wheels Up (mil air)	



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Agenda

- ✓ **Briefing Purpose**
- ✓ **TACOM LCMC Overview**
- ✓ **BRAC Recommendations**
- ✓ **Detroit Arsenal**
 - ***Who We Are***
 - ***Tenant Information / Support Services***
 - ***Ability to Expand***
 - ***Environmental***



Purpose

We will demonstrate how DoD's BRAC recommendations for the TACOM LCMC, specifically the Detroit Arsenal, support the Army's strategy to transform the Arsenal into a Center of Excellence for Ground Vehicles creating the synergies from having a critical mass in southeast Michigan, leveraging the world's capital for automotive ground vehicle research, development, acquisition and sustainment which will ensure the Department of Defense meets future demands.

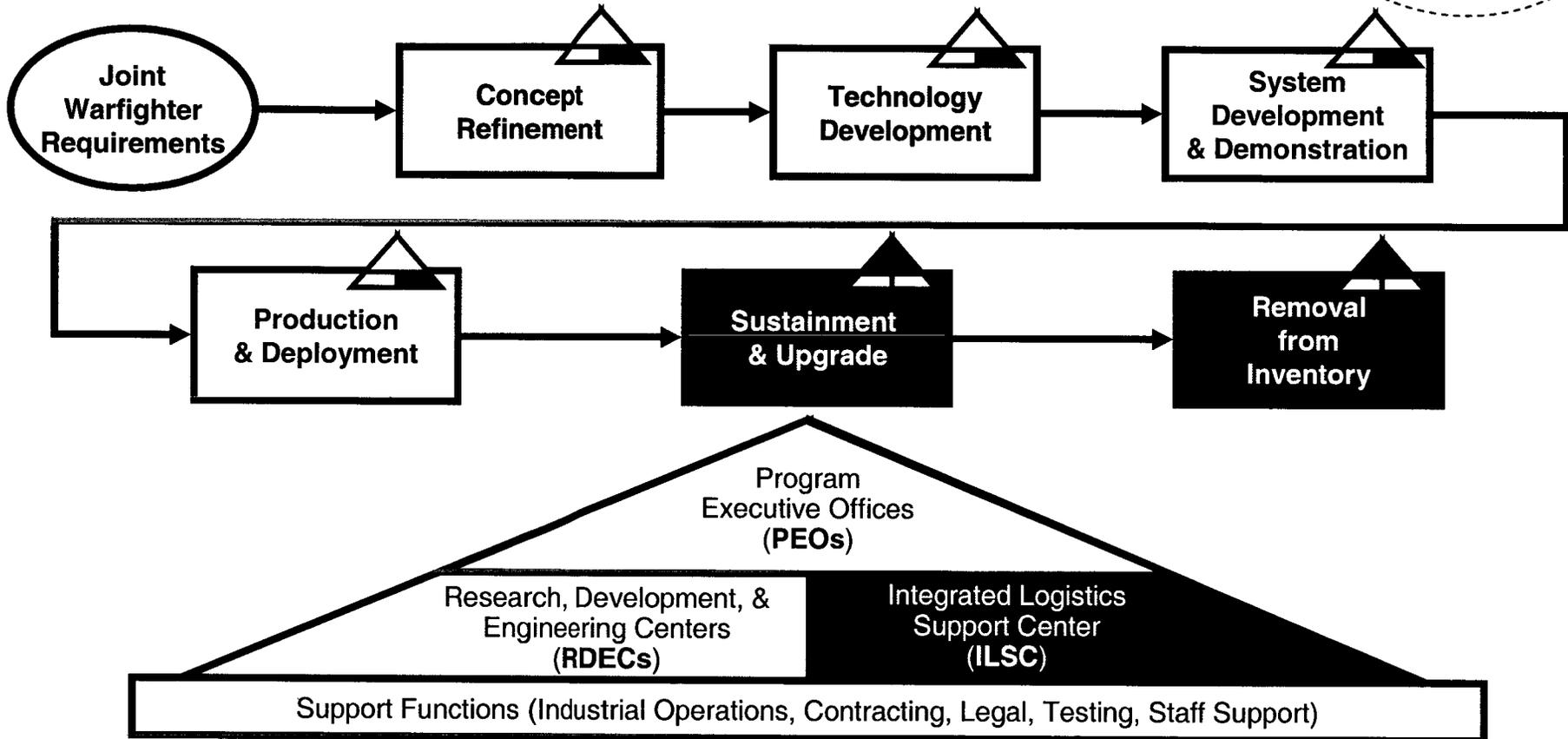
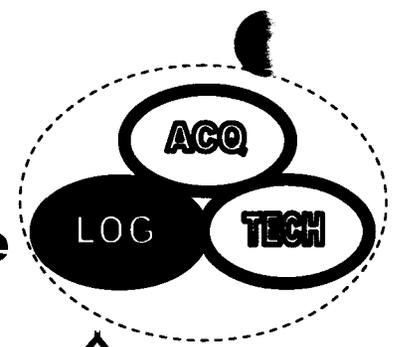
Specifically, we will address:

- Discrepancies in numbers for the Integrated Materiel Management Functions**
- Buildable space at the Detroit Arsenal & Military Construction Dollars**



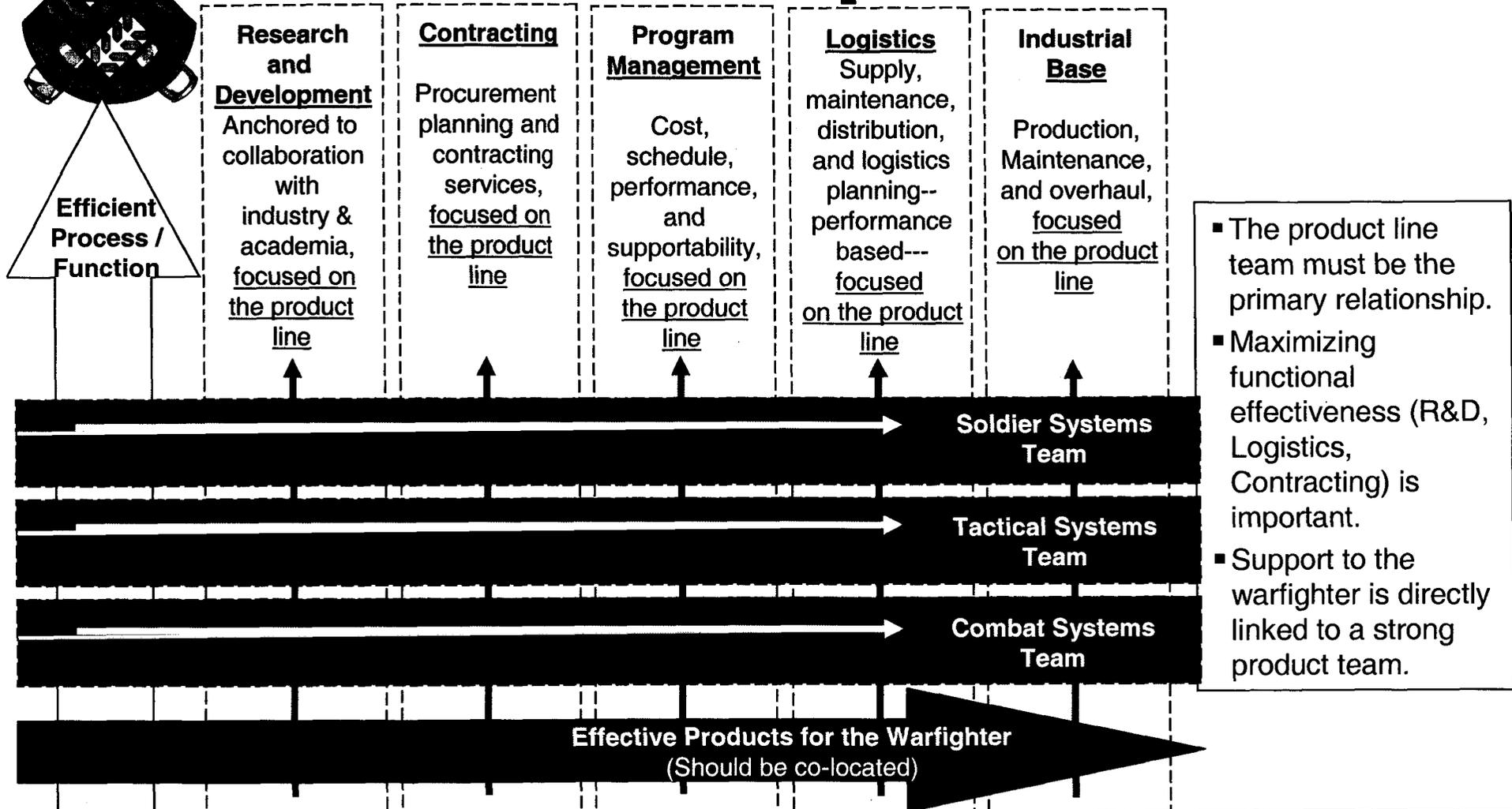
TACOM LCMC

Integrated Across the System Life Cycle



The objective is to get products to the warfighter faster, make our good products even better, minimize life cycle costs, and enhance the effectiveness and integration of our Acquisition, Logistics, and Technology communities.

How We Operate



The TACOM LCMC effectively balances the product and process focus. Partnerships & daily collaboration enabled by co-location improve the effectiveness and efficiency of life cycle management support to all soldier and ground systems.



TACOM LCMC

Mission / Product Lines / Magnitude

Develop, Acquire, Field and Sustain the Soldier and Ground Systems for the Warfighters, Joint Commanders, Allies, and other Customers.

Core Competencies (What we do):

- Research, Development, Engineering
- Acquisition / Program Management
- Logistics, Industrial Operations, and Contracting

Our Magnitude:

- 141 Allied Countries Own TACOM Equipment
- Every Army Unit has TACOM Equipment
- Approximately 3,000 Fielded End Items
- 29,000 Repairable Components

TACOM LCMC Product Lines:

- | | |
|-------------------------------|-----------------------------|
| ▪ Combat Vehicles | ▪ Sets, Kits & Outfits |
| ▪ Trailers | ▪ Shop Equipment |
| ▪ Materiel Handling Equipment | ▪ Large Caliber Guns |
| ▪ Fuel & Water Dist Equipment | ▪ Watercraft |
| ▪ Chemical Defense Equipment | ▪ Mortars |
| ▪ Howitzers | ▪ Aircraft Armaments |
| ▪ Commercial Vehicles | ▪ Rail |
| ▪ Tactical Vehicles | ▪ Fuel & Lubricant Products |
| ▪ Construction Equipment | ▪ Rifles / Machine Guns |
| ▪ Tactical Bridges | ▪ Soldier Equipment |



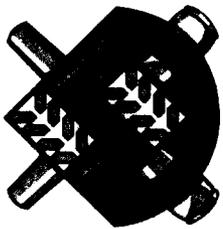
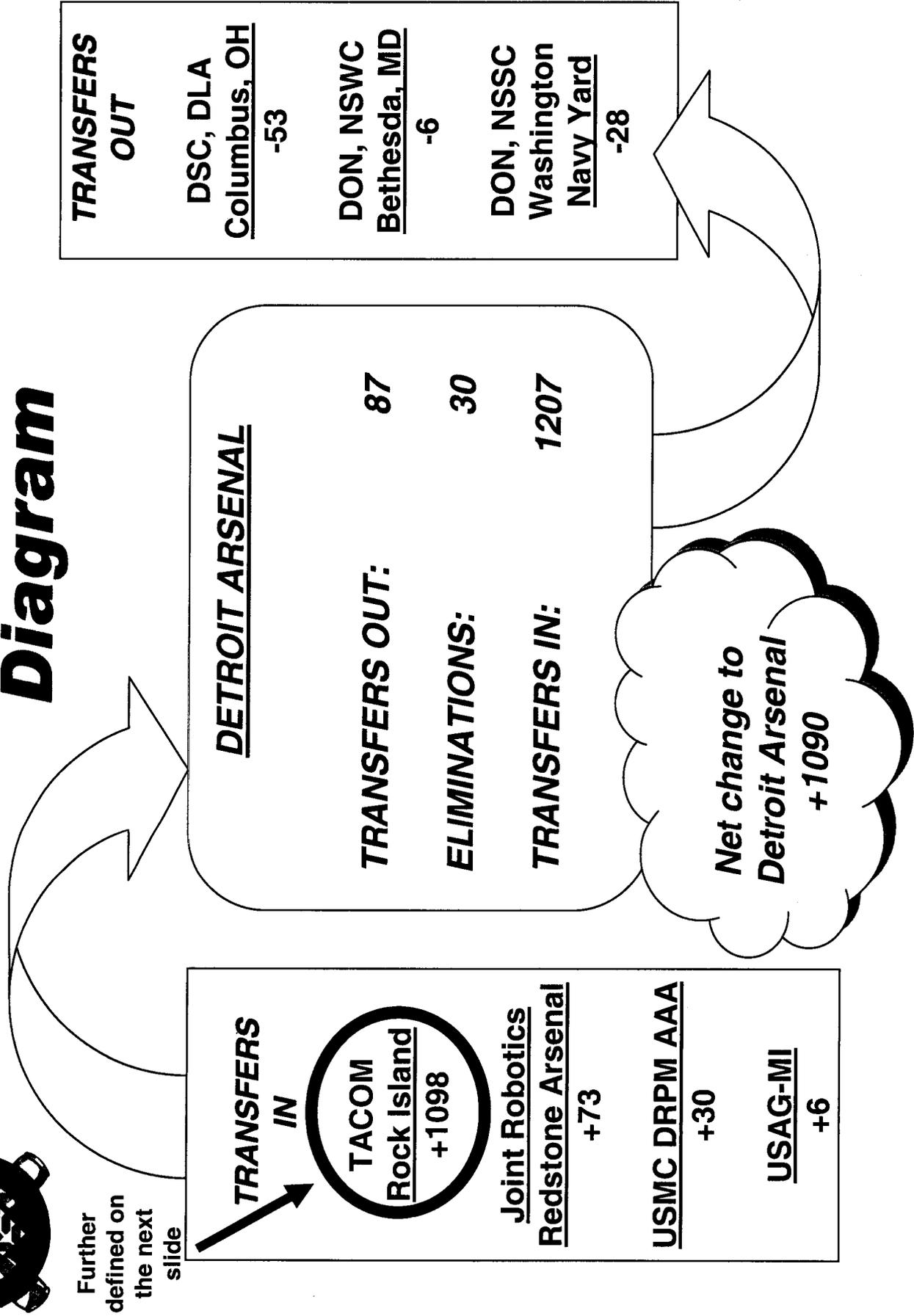
We support a diverse set of product lines through their life cycles, from combat and tactical vehicles, armaments, watercraft, fuel and water distribution equipment, to soldier, biological, and chemical equipment.

We manage the vast majority of Warfighter items.

TACOM LCMC MANAGED ITEMS – 90% (approx)

Detroit Arsenal Migration

Diagram





TACOM-RI COBRA DATA VS. CURRENT

	<u>COBRA</u>	<u>CURRENT</u>
TACOM-RI Population Start Point:	740	1232
Efficiencies Gained from Consumable Items, Depot Level Reparables (Procurement Mgmt) & ICP Consolidation Transfer:	-42	-42
Consumable Items Transfer to DLA, Columbus, OH:	-52	-52
Acq Ctr/Small Bus Support Transfers to JMTC/AFSC (RI):		-40
Depot Level Reparables (Procurement Mgmt) Transfer to DLA, Detroit Arsenal :	-36	-36
Remaining TACOM-RI Integrated Materiel Management, User, & Related Support Functions Transfer to Detroit Arsenal :	610	1062
Net Total TACOM-RI Transfers to Detroit Arsenal:	646	1098

COBRA Data Extracted from S&S-035R JCSG Recommendation
Current Population as of 14 June 2005



TACOM LCMC

**Program Executive Office
Ground Combat Systems
(PEO GCS)**



**Stryker Brigade
Combat Team**

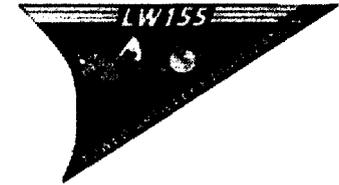


Combat Systems

- Abrams Tank
- Bradley Fighting Vehicle
- Paladin / FAASV
- M113



**Joint Robotics
Systems
(Army & Marine)**



**Joint Lightweight
Howitzer 155mm
(Army & Marine)**



PEO GCS maintains a total Army perspective in managing the development, acquisition, testing, systems integration, product improvement, and fielding that places the best ground combat systems in the hands of our soldiers.

**BRAC Recommendation Impact –
Relocates the joint robotics program development and acquisition activities
from Redstone Arsenal, AL.**



TACOM LCMC

**Program Executive Office
Combat Support and Combat Service
Support (PEO CS&CSS)**



 <p><u>Tactical Vehicles</u></p> <ul style="list-style-type: none"> • Heavy Tactical Vehicles • Light Tactical Vehicles • Medium Tactical Vehicles • Trailers 	 <p><u>Force Projection</u></p> <ul style="list-style-type: none"> • Army Watercraft Systems • Materiel Handling Equipment • Force Sustainment Systems • Petroleum & Water Systems 	<p>• Sets, Kits, Outfits, & Tools</p>   <p>• Test, Measurement, & Diagnostics Equipment</p>		

PEO CS&CSS supports the full spectrum force through development, acquisition, testing, systems integration, product improvement, and fielding that places the best combat support systems in the hands of our soldiers.

BRAC Recommendation Impacts –

Losses - (1) Relocates Sea Vehicle Development & Acquisition to Naval Surface Warfare Center, Bethesda, MD and (2) Program Management & Direction of Sea Vehicle Development & Acquisition to Naval Seas Systems Command, Washington Navy Yard, DC.



TACOM LCMC

**Program Executive Office
Soldier
(PEO Soldier)**



Soldier Weapons

- **Crew Served Weapons**
(MK19 Grenade Machine Gun, Common Remotely Operated Weapon Station)
- **Individual Weapons**
(M16 Rifle, M4 Carbine, M249 SAW)



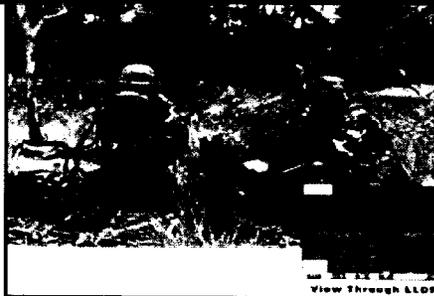
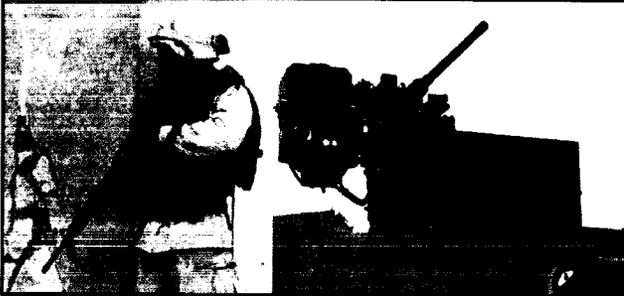
Soldier Equipment

- **Sensors & Lasers**
(Night Vision Devices, Laser Systems, Thermal Weapon Sights)
- **Clothing & Individual Equipment**
(Combat Helmets, Body Armor, Chemical Gear)



Soldier Warrior

- **Air Warrior**
(improve aircrew safety, survivability, and performance)
- **Land Warrior**
(integrates everything an infantry Soldier wears or carries on the battlefield)



PEO Soldier's mission is to arm and equip Soldiers through development, acquisition, testing, systems integration, product improvement, and fielding of weapons and equipment while treating the Soldier as a System.



TACOM LCMC

Acquisition Center



Picatinny

PRODUCTS

Munitions
 Weapons & Armaments Systems
 Fire Control Systems / Fuses
 Warhead Technology
 Field Artillery Systems
 Logistics and General Support

Warren (Detroit Arsenal)

PRODUCTS

Combat Vehicles
 Tactical Vehicles / Trailers
 Support Equipment
 Tactical Bridges
 Fuel and Water Distribution Systems
 Watercraft and Railcars
 Future Combat Systems

Rock Island

PRODUCTS

Combat Vehicle Armaments
 Training Devices
 Chemical Defensive Equipment
 Small Arms
 Aircraft Armaments
 Mortars
 Recovery Vehicles
 Fire Control Systems
 Cannons 105-165mm



The Acquisition Center is responsible for all of the contracting functions over the entire life cycle. This responsibility encompasses acquisition planning, contract execution and contract management.

BRAC Recommendation Impacts

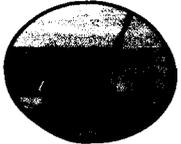
Losses: (1) Realigns Detroit Arsenal, MI, by relocating the supply contracting functions for tires to the Inventory Control Point at Defense Supply Center, Columbus, OH (2) Relocates contracting functions for consumable items management to Defense Supply Center Columbus, OH and designate them as a DLA Inventory Control Point function. Gain – (1) TACOM Integrated Materiel Management, user and related support functions from Rock Island, IL to Detroit Arsenal.



TACOM LCMC

Integrated Logistics Support Center (ILSC)



 <p>Aircraft Armament & Small Arms PSID</p>	 <p>Field Artillery & Mortars PSID</p>	 <p>Light Combat PSID</p>	 <p>Tools & Training Systems PSID</p>	
 <p>Unit of Action/Future Combat System PSID</p>	 <p>Deployment Equipment PSID</p>	 <p>Heavy Combat PSID</p>	 <p>Tactical Vehicle PSID</p>	
 <p>Security Assistance Management Directorate</p>	 <p>Chem/Bio Defense PSID</p>	 <p>Soldier PSID</p>	 <p>Clothing & Heraldry PSID</p>	 <p>Readiness Integration Directorate</p>

The Product Support Integration Directorates (PSIDs) provide sustainment support for all TACOM LCMC systems. This encompasses Maintenance Management & Supply Support, Acquisition Logistics & Sustainment Logistics, and Weapons Systems Management.

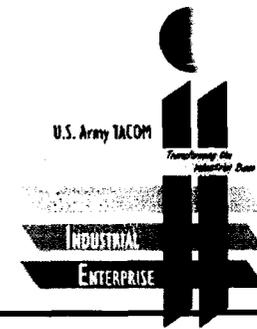
BRAC Recommendation Impacts -

Losses - (1) Realigns Detroit Arsenal, MI, by disestablishing supply functions for tires (2) Relocates numerous materiel management functions for consumable items management to Defense Supply Center (DSC), Columbus, OH and reestablish them as DLA Inventory Control Point (ICP) functions and (3) by disestablishing the procurement management functions for depot level reparable and designating them as DSC, Columbus, OH, ICP functions. Gain - (1) TACOM Integrated Materiel Management, user and related support functions, from Rock Island, IL to Detroit Arsenal.



TACOM LCMC

Ground Systems Industrial Enterprise (GSIE)



Anniston Army Depot (ANAD)

- Overhauls and repairs heavy & light combat vehicles
- M1A1, M88, AGT 1500 Turbine Engine, Small Arms



Red River Army Depot (RRAD)

- Overhauls and repairs combat and tactical vehicles
- HMMWV, HEMMT, Bradley, MLRS
- Patriot & Hawk Missile Recertification



Sierra Army Depot (SIAD)

- Maintenance, storage, logistical & training support
- Joint Medical, Water, Petroleum Stocks
- Stryker Configured Loads



Rock Island Arsenal (RIA)

- Development / prototyping, manufacturing
- M119 Howitzer, M7 Forward Repair Sys
- Tactical Trailer RESET



Watervliet Arsenal (WVA)

- America's sole manufacturing facility for large caliber cannons
- Stryker & FCS Cannon
- Joint Lightweight Howitzer



Joint Systems

Manufacturing Center - Lima

- Production facility for the M1 Abrams
- Manufacturing, repairing, refurbishing, and testing of armored combat vehicles

The Ground Systems Industrial Enterprise (GSIE) leverages the combined capability and capacity of the six industrial installations. Combined capabilities include: manufacturing, plant engineering services, field support, storage, repair, and overhaul.



TACOM LCMC

Enterprise Partners

Research, Development, & Engineering Centers



**Armaments Research,
Development, & Engineering
Center
(ARDEC)**

- Combat Vehicle Armaments
- Conventional & Smart Munitions
 - Mortar Systems
- Small Caliber & Infantry Weapons
 - Countermines
- Antipersonnel Landmine Alternatives



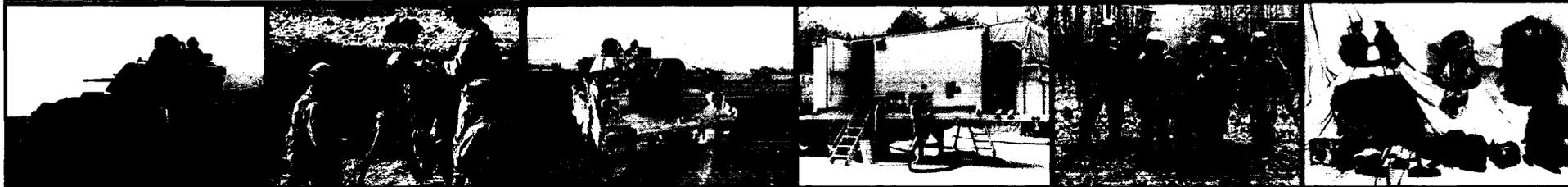
**Tank Automotive Research,
Development, & Engineering
Center
(TARDEC)**

- Combat & Tactical Vehicles
- Water Generation & Purification
 - Fuels & Lubricants
- Fuel Storage & Distribution
 - Military Bridging
- Logistics Equipment

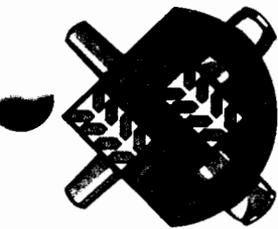


**Natick Soldier Center
(NSC)**

- Protective Clothing & Individual Equipment (Ballistic, Chem / Bio, Environmental)
 - Tents & Shelter Systems
- Field Services Equipment (Food, Laundry, Latrine)



The Research, Development and Engineering Centers' mission is to improve fielded systems, develop new systems, provide technical support to the soldier in the field while maintaining a strong technology base in government, industry and academia.



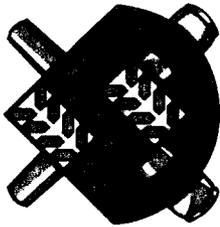
TACOM LCMC

**Alliance Partner
PM Unit of Action**



<ol style="list-style-type: none"> 1. The Future Combat Systems Network 2. Unattended Ground Sensors 3. Non Line of Sight – Launch System 4. Intelligent Munitions System 5. Unmanned Aerial Vehicles (Class I – IV) 	<ol style="list-style-type: none"> 6. Armed Robotic Vehicle 7. Small Unmanned Ground Vehicle 8. Multifunctional Utility / Logistics and Equipment Vehicle 9. Mounted Combat System 10. Infantry Carrier Vehicle 11. Non-Line-of-Sight Cannon 	<ol style="list-style-type: none"> 12. Non-Line-of-Sight Mortar 13. Reconnaissance & Surveillance Vehicle 14. Command & Control Vehicle 15. Medical Vehicle – Treatment & Evacuation 16. FCS Recovery & Maintenance Vehicle 17. The Soldier 			
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The Future Combat Systems (FCS) program is the cornerstone materiel element of the Unit of Action (UA) and represents the greatest technological and integration challenge the Army has ever undertaken. When fielded to the UA, FCS will provide our Future Force with unprecedented military capability.



To Summarize... Transformation Strategies

What it brings to the Joint Warfighter---

Enhances Operational Effectiveness for Total Life Cycle Management

Detroit Arsenal BRAC Recommendations facilitate...

- ✓ a fully integrated Life Cycle Management Command that allows us to acquire, field and sustain warfighting capabilities
- ✓ fully integrated materiel management
- ✓ consolidation of Marine Corp and Army facilities that are primarily focused on ground vehicle activities in development and acquisition
- ✓ consolidation that is centered on manned and unmanned ground vehicle program management
- ✓ our abilities to develop new emerging capabilities and technologies that will position us for the future or new threats
- ✓ synergies based on consolidation and our location
- ✓ and enhance military value of the TACOM LCMC in terms of creating a Center of Excellence for Ground Vehicles



Transformation is not solely based on introducing new technologies into the force. It also requires changes in the way the force is employed through major changes in doctrine and force structure.



U.S. Army Garrison-Michigan

Mr. Samuel Skinner

29 July 2005

**Mr. Robert Graves, Deputy to the Commander
U.S. Army Garrison-Michigan**

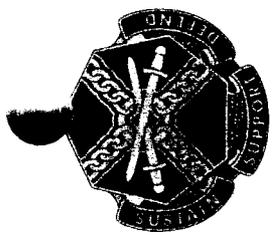
Our Mission - United States Army Garrison-Michigan provides installation management services for a joint military community at Detroit Arsenal and Selfridge to promote current and future readiness, well-being and retention.

Leading Change for Installation Excellence



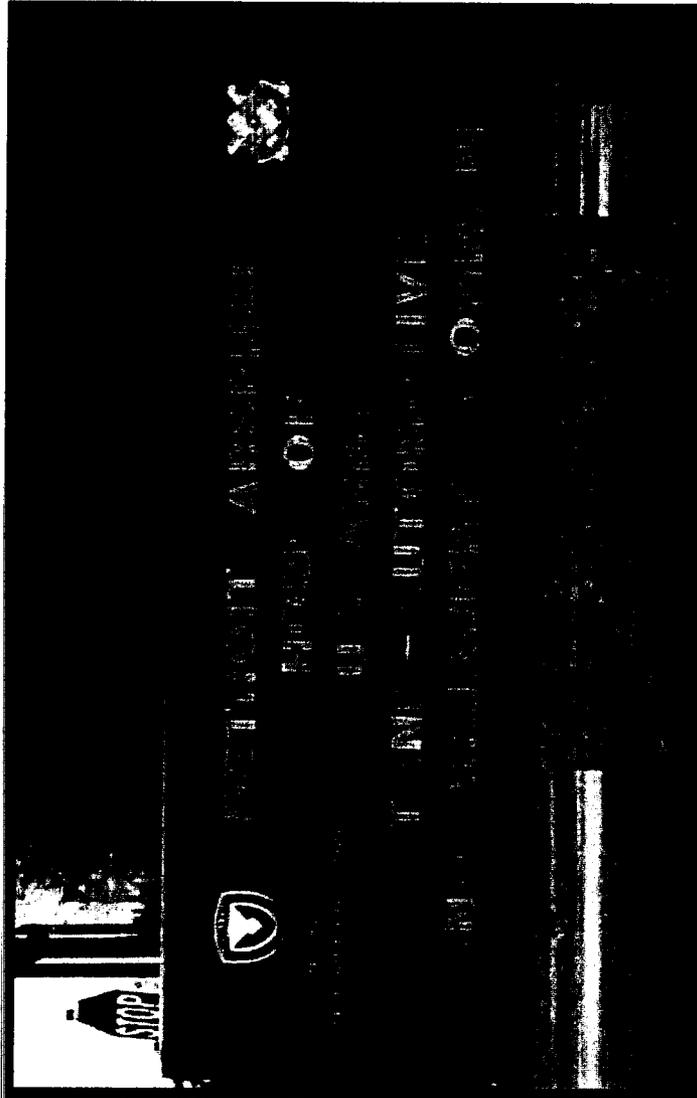
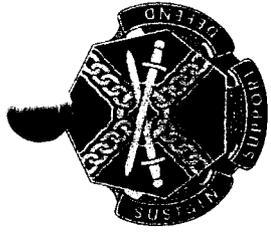
U.S. Army Garrison – Michigan

Bottom Line Up Front



Detroit Arsenal-Warren has the available land area and infrastructure support systems for new construction to meet BRAC Realignment recommendation.

U.S. Army Garrison – Michigan



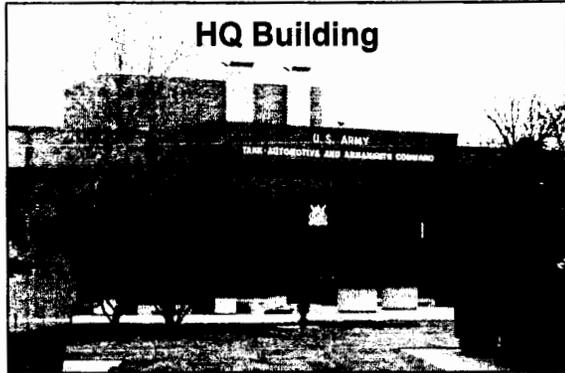
- ✓ **Who We Are**
- ✓ **Tenants**
- ✓ **Ability to Expand**
- ✓ **Environmental**
- ✓ **Summary**



U.S. Army Garrison – Michigan



Who We Are



HQ Building



Detroit Arsenal

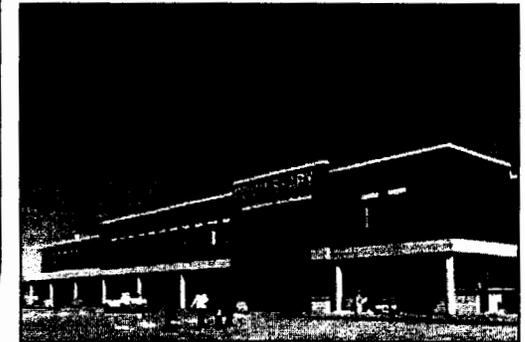


Research & Engineering Center

- U.S Army Garrison – Michigan is the only active duty Garrison in the State of Michigan; attached to IMA, NW Region
- Our organization serves the joint military community throughout the State of Michigan and the surrounding region, providing base operation services and support to DoD, Department of Homeland Security, and all active duty personnel, reservists, family members, and retirees.



Selfridge



Tenants



ARMY RESEARCH LABORATORY

DOC, AUTOMATION & PRINTING SVCS(DAPS)

ARMY MEDICAL ACTIVITY

AFGE 1658

902ND MILITARY INTELLIGENCE DETACHMENT

ARMY CORP OF ENGINEERS (CoE)

USA TMDE SUPPORT CENTER

DEFENSE ACQUISITION UNIVERSITY

PM Unit of Action

PEO CS&CSS



PEO GCS



DEFENSE AUDIT AGENCY

DEFENSE LOGISTICS AGENCY (DLA)

SMALL BUSINESS ADMIN (SBA)

SECURITY ASSISTANCE CENTER (TSAC)

DEFENSE CONTRACT MGT AGENCY (DCMA)

ASSOCIATED INDUSTRIES FOR BLIND (AIB)

ARMY AUDIT AGENCY (AAA)

MICHIGAN COMMISSION FOR BLIND

CIVILIAN PERSONNEL

TARDEC



TACOM



U.S. Army Garrison - Michigan

Surrounding Communities



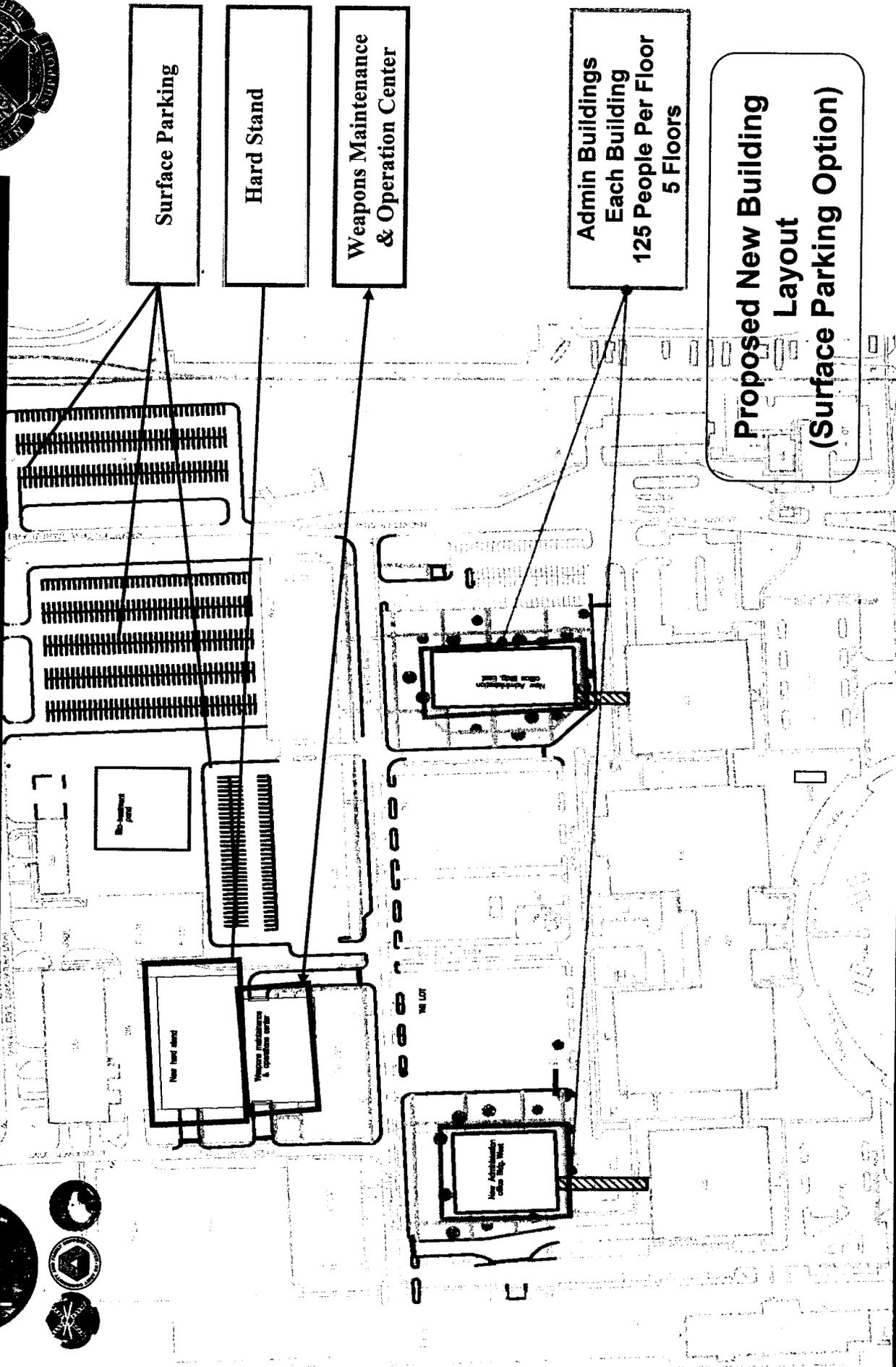
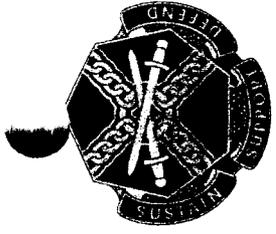
U.S. Army Garrison – Michigan



Ability to Expand

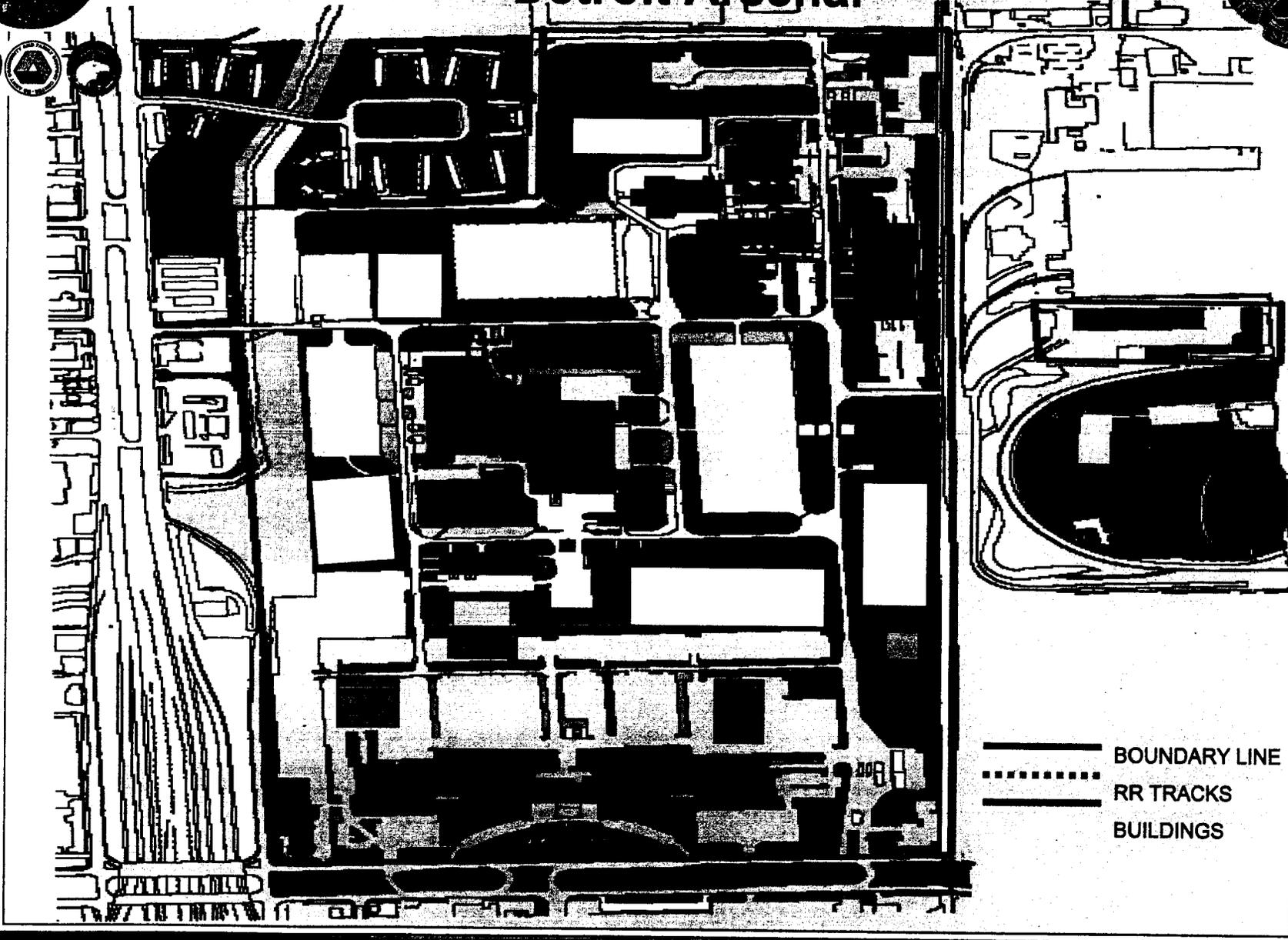
- **Expandability to accommodate BRAC recommendations:**
 - 21 Acres Available
 - 66% Electrical Capacity used / 34% Available
 - 04% Gas Capacity Used / 96% Available
 - 50% Steam Capacity / 50% Available
- **Estimates based on the footprint of existing Buildings 229 & 231**
 - Footprint of each building is 42,136 square feet, slightly less than 1 acre.
 - Each Building is 4 floors high; 168,544 gross feet (excluding basement)
 - Each building accommodates 842 people
 - Construction of new buildings will take about 2 acres
- **Administrative Building construction:**
 - Two administrative buildings; each 5 floors high with 125 people per floor - 1250 occupants total
- **Parking:**
 - Surface parking will be built on vacant green space

U.S. Army Garrison – Michigan



INSTALLATION MAP

Detroit Arsenal



————— BOUNDARY LINE
 RR TRACKS
 ——— BUILDINGS



U.S. Army Garrison – Michigan



Environmental

ENVIRONMENTAL PROGRAM

- Detroit Arsenal is proactive in meeting all environmental regulations.
- No known soil contamination.
- Asbestos and lead base paint present (but contained) in many buildings.
- Active Environmental Quality Control Committee with tenant and community representation.

Storm Water

- ✓ No National Pollutant Discharge Elimination System (NPDES)
- ✓ City of Warren permit
- ✓ Waste Water - None

Air

- One permit; less than 50% of the permit limits release
- State permit to install needed for most emission sources
- Non-attainment for ozone and particulate matter (stuff in the air) for 2.5 microns

Historical Buildings

- 3 structures eligible to be placed on the Historic Register, 6 structures will be eligible in 5 years

Relationship With Local Community

- Chair of the Macomb County Local Emergency Planning Commission (LEPC)
- Member of the Michigan Pollution Prevention Alliance
- Provide Educational Training to Local Schools

U.S. Army Garrison – Michigan

Summary

Yes, Detroit Arsenal-Warren can accommodate the BRAC recommendation.

