

# Asphalt Base Repair

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1. Layout and mark all areas of repair.
2. Excavate areas to be repaired to a depth of —.
3. Square surface area of repair and cut walls of repair to produce vertical edges.
4. Roll existing sub grade materials to achieve maximum density.
5. Apply liquid asphalt tack coat to all vertical edges of repair.
6. Install — of hot mix asphalt base coarse material.
7. Roll asphalt base coarse to achieve a true and firm finish.

# Asphalt Crack Filling

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1. Identify the isolated cracks greater than 1/4" wide and less than 3/4" for repair.
2. Clean the isolated cracks by power blower and/or grazer. Dispose of all debris offsite.
3. Install hot-pour rubberized crack filler in areas or repair to finish grade existing surface one time only. Filler to be applied to dry surface. Filler may not be flush with asphalt surface to allow for expansion and contraction.

# Asphalt Curb Repair or Installation

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1. Layout and mark all areas of repair or new installation
2. Excavate as necessary to prepare for installation. Cut existing adjoining curb if needed to provide vertical edges.
3. Clean the areas and dispose of all debris offsite.
4. Mechanically apply liquid asphalt tack coat to all vertical edges of repair.
5. Install curb using extrusion machine or by hand method.
6. Backfill curb, if specified, using onsite materials.

# Asphalt Milling

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1. Mill area specified to an approximate depth of —.
2. Haul away debris.
3. Sweep area clean of debris.
4. Apply tack coat at a rate of .05 – .10 gallons per square yard.
5. Overlay the specified area with — depth of surface course asphalt. Roll area to a compacted and uniform finish.

# Asphalt Overlay with Milling Along Gutter Pans

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1. Sweep the existing asphalt clean.
2. Mill asphalt pavement along perimeter of concrete gutter pans.
3. Apply tack coat at a rate of .05 – .10 gallons per square yard.
4. Overlay the specified area with 1 1/2 " depth of surface coarse asphalt.

# Asphalt Full-Depth Replacement

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1. Saw cut & excavate existing asphalt and remove off site.
2. Excavate \_ " of soil/dirt.
3. Supply, lay \_ tonnes of subbase material.
4. Grade and compact to maximum density.
5. Set laser and fine grade to proper water flow pattern.
6. Machine lay \_ tonnes of Hot Mix Asphalt and compact finish to \_ compacted thickness.

# Asphalt Repair

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1. Layout and mark all areas of repair.
2. Excavate areas to be repaired to a depth of —.
3. Square surface area of repair and cut walls of repair to produce vertical edges.
4. Roll existing sub grade materials to achieve maximum density.
5. Apply liquid asphalt tack coat to all vertical edges of repair.
6. Install — of hot mix asphalt base coarse material.
7. Roll asphalt base coarse to achieve a true and firm finish.
8. Install — of hot mix asphalt surface coarse material.
9. Roll surface coarse to achieve a true and firm finish matching existing grade.

# Asphalt Resurfacing

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1. Layout and mark all areas of repair.
2. Crack seal surface cracks, 1/4" – 3/4".
3. Cut out and replace sections with larger cracks.
4. Square surface area of repair and cut walls of repair to produce vertical edges.

5. Roll existing sub grade materials to achieve maximum density.
6. Apply liquid asphalt tack coat to all vertical edges of repair.
7. Install — of hot mix asphalt base coarse material.
8. Roll asphalt base coarse to achieve a true and firm finish on replacement patch sections.
9. Install — of hot mix asphalt surface coarse material on complete resurfacing area.
10. Roll surface coarse to achieve a true and firm finish matching existing grade.

## Asphalt Rinsing

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1. Treat oil spots and rinse area using low pressure cold water rinse.
2. Water and water supply to be supplied by owner.

## Asphalt Seal - Rout and Seal

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1. Layout cracks identified for treatment.
2. Chase all random cracks and control joints with saw or grinder to restore proper width and depth.
3. Clean out and prime joints.
4. Furnish, install and tool polyurethane or hybrid sealant into prepared joint.

## Asphalt Sealcoating

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Sealcoating Mixture – commercial-grade environmentally-friendly, water-based and mineral-filled asphalt emulsion pavement sealer fortified with special surfactants to promote superior adhesion and durability. Select aggregate is job-mixed to produce a slip-resistant coating that dries to a deep, rich black color. Clean entire parking lot of all debris utilizing high powered air brooms and steel brushes.

1. Scrape and prime coat areas of oil saturation with heavy duty bonding agent to promote adhesion.
2. Apply 2 coats of sealer to entire area to fill asphalt pores and irregularities and assure a top wearing surface for long lasting protection.
3. Apply a heavy-duty wearing coat to high traffic areas and sharp turning areas for longer lasting protection.
4. Hand apply around all curbs, sidewalks, concrete aprons, buildings, and other appurtenances.

# Asphalt Speed Bump Installation

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1. Layout and mark area(s) for placement of speed bump(s)
2. Clean area of all dirt and debris.
3. Tack coat area of installation using liquid asphalt.
4. Install hot mix surface asphalt to a maximum height of 3" at the apex and a width of 24".

# Asphalt Surface Patching

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1. Layout and mark all areas of repair.
2. Cut heel around perimeter of area to be repaired.
3. Clean repair area of vegetation, dirt and surface debris as required. Dispose of all debris offsite.
4. Mechanically apply liquid asphalt tack coat to complete area of surface repair.
5. Install — average minimum depth of hot mix asphalt surface coarse material.
6. Roll surface coarse to achieve a true and firm finish. Match existing grade at butt of heel.

# Asphalt Temporary Pothole Repair

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NOTE: Due to the temporary nature of this type of patching, no warranties are implied.

1. Mark out areas of repair.
2. Sweep and prep areas
3. Install cold patch material and compact.
4. Clean work area of construction debris.

# Concrete Collar Repair

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1. Layout and mark all areas of repair.
2. Remove existing storm drains frame and grate.
3. Saw cut an area approximately 4' x 4' of existing asphalt. Excavate to approximately 8" and haul debris off site.
4. Install rebar grid pattern, supply and pour 12" of 4500 PSI concrete with air entrainment.

5. Float surface of concrete and apply a light broom finish.
6. Replace frame and grate, clean area of work debris and barricade site for 4 – 5 days to allow for curing.

## **Concrete Curb and Gutter Repair**

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1. Excavate curb and gutter to a depth of 8". Haul away concrete debris.
2. Tamp base for compaction.
3. Form up curb and gutter to local specifications.
4. Pour concrete using 3500 PSI air entrained concrete at a 3 1/2" slump.
5. Place control joints every 10' and expansion every 80'.
6. Place light broom finish on curb.
7. Strip forms and back fill areas.
8. Supply barricades where needed.
9. Clean up job site.

## **Concrete Curb Painting**

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1. Thoroughly hand scrape entire curb area.
2. Remove all paint chippings and debris from property.
3. Re-paint all previously painted curbs.

## **Concrete Curb Removal and Replacement**

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1. Layout and mark all areas of repair.
2. Break up and remove areas to be repaired to the nearest joint or saw cut. Dispose of debris off site.
3. Install forms as necessary.
4. Compact existing subgrade materials to achieve maximum density.
5. Pour concrete using 3500 PSI air entrained concrete to match existing adjacent curbs.
6. Install expansion joint material every 150 linear feet. Install crack control joints every 10 linear feet.
7. Place light broom finish on surface for traction.
8. Remove forms and backfill adjacent disturbed areas using onsite materials.

# Concrete Curb Sandblasting

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1. Sandblast all painted curbs.
2. Provide pedestrian and vehicular protection.
3. Protect all Chesapeake Bay storm drains to filter and protect drains from paint debris run-off.
4. Daily Construction Clean up and rinsing.
5. Remove sand and paint chipping from property. Haul away debris.

# Concrete Curb Staining

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1. Clean existing surface that is to be stained.
2. Apply 2 coats of HG concrete stain as directed.

# Concrete Efflorescence Cleaning

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1. Application of heavy duty masonry cleaner to all areas affected.
2. Allow proper dwell time for cleaning agent.
3. Utilize a 3000 PSI hot/cold water blast to remove cleaning agent and underlying efflorescence.
4. If efflorescence build-up is too thick for chemical penetration a wet sand injection in the water blast will be needed at an additional cost.

# Concrete Entrance Removal and Replacement

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1. Layout and mark all areas of repair.
2. Break up and remove areas to be repaired. Dispose of concrete debris off site.
3. Install forms as necessary to retain and support concrete.
4. Compact existing subgrade materials to achieve maximum density.
5. Install \_\_\_\_\_" depth 3500 psi air-entrained concrete. Install expansion joint materials at all existing concrete surfaces abutting new entrance.
6. Remove forms and restore adjacent disturbed areas using onsite materials.

# Concrete Exposed Aggregate Sidewalk Repair

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1. Layout and mark all areas of repair.
2. Demolish and remove areas to be repaired to the nearest joint or saw cut. Dispose of all debris off site.
3. Form up to dimensions specified by customer to a minimum depth of 4".
4. Place 6 x 6 x 10 gauge wire mesh throughout slab area or vs fiber reinforced concrete.
5. Pour new concrete using 3500 PSI air entrained concrete with comparable stone aggregate and curing retarding agent.
6. Place construction joints where needed. Place 4" fiber expansion where needed.
7. Float surface of concrete and wash off top layer of concrete exposing stone at surface.
8. Allow to cure for a period of approx. 48 hours. Apply light acid wash to remove residual film.
9. Strip forms and back fill areas.
10. Supply barricades where needed. Remove forms and restore adjacent disturbed areas using onsite materials.

# Concrete Loading Dock Repair

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1. Barricade entire loading dock areas.
2. Demolish deck of loading dock.
3. Haul all concrete debris from site.
4. Cut existing residual wire and or rebar.
5. Haul away from site.
6. Core drill at 12" intervals around top perimeter of existing wall.
7. Install #4 rebar with a 90 degree angle into the new deck extending to structural wall.
8. Install expansion joint along entire length of loading dock.
9. Form new deck as required. Deck will be formed to allow water run-off.
10. Furnish and install approximately 12" of new 5000 PSI concrete with air.
11. Float surface of concrete and apply a light broom finish on all
12. Strip forms and remove all construction debris from site.

# Concrete Pad Installation

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1. Layout and mark area of pad.
2. Saw cut existing asphalt or concrete along perimeter of pad.
3. Excavate area of pad to a depth of \_\_\_\_\_. Dispose of all debris offsite.
4. Tamp existing sub grade materials to achieve maximum density.
5. Install \_\_\_\_\_ stone as necessary.
6. Compact stone aggregate material to achieve maximum compaction.
7. Reinforce with one layer of welded wire mesh.
8. Install \_\_\_\_\_ of 4000 PSI air entrained concrete and finish level with top of adjacent paving.
9. Rough-broom finish concrete surface to ensure traction.
10. Remove forms and restore adjacent disturbed areas using onsite materials.

NOTE: Five (5) days curing time is required prior to use in order for warranty to be valid.

## Concrete Patching

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1. Clean out loose debris for areas to be patched.
2. Apply scrub coat of cement to surface to be patched.
3. Patch area using topping bond. Place brush surface on area for traction. Supply barricade where needed.
4. Clean up job site.

## Concrete Pool Deck Repair

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1. Layout and mark all areas of repair.
2. Break up and remove areas to be repaired. Dispose of concrete debris off site.
3. Tamp base with vibratory tamper for compaction. Form up for new pool deck.
4. Place 6 x 6 x 10 wire mesh in pool deck area.
5. Pour concrete using 3500 PSI air entrained concrete at a 4" slump. Screed area to level.
6. Place construction joints and expansion where needed.
7. Place light broom finish on pool deck for traction.
8. Provide barricades where needed.
9. Remove forms and restore adjacent disturbed areas using onsite materials.

## Concrete Ramp (Handicap) Installation

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1. Break up existing handicap ramp. Haul away debris.
2. Form up for new handicap ramp.
3. Check base for compaction.

4. Place 6 x 6 x 10 wire mesh in ramp area.
5. Pour concrete using 3500 PSI air entrained concrete at a 4-inch slump. Screed ramp.
6. Place construction joints and expansion where needed.
7. Apply required finish on ramp for traction.
8. Provide barricades where needed.
9. Strip forms and clean up job site.

## Concrete Sidewalk Caulking

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1. Cut out any defective caulking within sidewalk control joints.
2. Clean per manufacturer's specifications, prime and repack all caulking joints using the proper sized backer rod to assure the proper widths to depth ratio.
3. Apply bond breaker tape where needed to avoid an improper 3-sided caulk joint.
4. Seal prepared joints using a 2-part polyurethane sealant of the proper color. Tool each joint using a dry metal pointer to assure a smooth wrinkle free bond.

## Concrete Sidewalk Installation

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1. Layout and mark all areas of repair.
2. Dig out sod or dirt for new sidewalk.
3. Form up to dimensions specified by customer to a minimum depth of 4".
4. Place 6 x 6 x 10 gauge wire mesh throughout slab area or vs fiber reinforced concrete.
5. Pour new concrete using 3500 PSI air entrained concrete.
6. Place construction joints where needed. Place 4" fiber expansion where needed.
7. Place medium broom finish on surface.
8. Remove forms and restore adjacent disturbed areas using onsite materials.
9. Supply barricades where needed.

## Concrete Sidewalk Power washing

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1. Application of concrete cleaning solution and/or degreasing solution, where necessary, using high pressure spray and hot water, followed by a clear water rinse to remove gum, dirt, moss, mildew, algae and pollutants.
2. Water and water supply to be supplied by owner.
3. All windows, doors, and ledges will be rinsed and wiped down where necessary. Bottom of doors will be taped to prevent water from going under doors.

# Concrete Sidewalk Repair

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1. Layout and mark all areas of repair.
2. Demolish and remove areas to be repaired to the nearest joint or saw cut. Dispose of all debris off site.
3. Form up to dimensions specified by customer to a minimum depth of 4".
4. Place 6 x 6 x 10 gauge wire mesh throughout slab area or use fiber reinforced concrete.
5. Pour new concrete using 3500 PSI air entrained concrete.
6. Place construction joints where needed. Place 4" fiber expansion where needed.
7. Place medium broom finish on surface.
8. Strip forms and backfill sidewalk.
9. Supply barricades where needed. Remove forms and restore adjacent disturbed areas using onsite materials.

# Concrete Sidewalk Sealing

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1. Prepare surface with appropriate cleaning method.
2. Allow adequate time for surface to dry.
3. Apply Aqua Treat Water Repellent Sealing solution to surface.
4. Glass, metal, plastic and other non-porous substrates will be protected from over spray.

# Concrete Full Depth Spall Repair

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1. Layout and mark areas to be restored.
2. Saw cut perimeter of patch to a minimum depth of 1/2".
3. Jackhammer and chip detail within area to a minimum depth of 3", exposing top layer of steel by at least 1/4" surround (splice steel with loss of 25% or greater with new bar to match size and strength).
4. Remove defective material thru slab (as indicated by fractures and sounding) and place forms and shoring below.
5. Pre-soak patch to saturation and allow to dry (SSD).
6. Coat entire patch with scrub coat of cement slurry as a bonding agent.
7. Furnish and install 4500 PSI air-entrained high-early-strength concrete, troweled smooth and finished to light broom texture.
8. Remove forms, clean up site and dispose of debris.

# Concrete Partial Depth Spall Repair

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1. Layout and mark areas to be restored.
2. Saw cut perimeter of patch to a minimum depth of 1/2".
3. Jackhammer and chip detail within area to a minimum depth of 3", exposing top layer of steel by at least 1/4" surround (steel with loss of 25% or greater will be spliced with new bar to match size and strength).
4. Presoak patch to saturation and allow to dry (SSD) without standing water.
5. Coat entire patch with bonding agent.
6. Furnish and install 4500 PSI air-entrained high-early-strength concrete, troweled smooth and finished to a light broom texture.
7. Remove forms, clean up site and dispose of debris.

# Concrete (Stamped) Installation

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1. Layout and mark area of installation or repair.
2. Saw cut existing asphalt or concrete along perimeter of effected area.
3. Excavate area of pad to a depth of \_\_\_\_" and dispose of offsite.
4. Compact existing subgrade materials to achieve maximum density.
5. Install 57 stone (3/4") stone if necessary and compact.
6. Reinforce with one layer of 6" x 6" wire mesh.
7. Install \_\_\_\_" of 4000 psi air-entrained pea gravel concrete and finish level with top of adjacent paving or landscape.
8. Apply release agent and tamp in stamp pattern chosen by customer to an even pattern throughout.
9. After 24 hrs. cure time, power wash excess release agent off of surface.
10. After sufficient dry time, apply high-gloss sealer and aggregate mix to protect surface and allow for traction.
11. Remove forms and restore adjacent disturbed areas using onsite material.
12. Remove barricades and clean up site.

# Concrete Step Repair

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1. Layout and mark all areas of repair.

2. Demolish and remove areas to be repaired to the nearest joint or saw cut. Dispose of all debris off site.
3. Reform step bracing where necessary.
4. Re-pour steps using 3500 PSI concrete at a 4" slump.
5. Strip forms and face risers.
6. Place light broom finish on surface for traction.
7. Supply barricades where needed, clean up job site area.
8. Remove forms and restore adjacent disturbed areas using onsite materials.

## **Drain - French Drain Installation, Repair, or Replacement**

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1. Layout area for installation of underground drain.
2. Excavate drain area to a depth of 24" and dispose of soil off site.
3. Install permeable fabric liner in drain area.
4. Install approximately 8" of filter stone and compact.
5. Install 4" slotted drainage pipe and connect to catch basin using 4' of solid schedule 40 PVC pipe.
6. Install approximately 12" of filter stone on top of drain pipe and compact as necessary.
7. Install 2.5" of base course asphalt and compact to insure maximum stability.
8. Install 1.5" of surface asphalt and roll to achieve a true and firm finish.
9. Seal all edges with rubberized sealant.

## **Drain - Trench Drain Re & Re**

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1. Saw cut perimeter of existing trench drain.
2. Excavate and remove concrete and existing trench drain grates.
3. Reform trench drain to proper dimensions. Place 1/2" rebar mat 12" on center.
4. Pour concrete using 4500 PSI. Supply barricades where needed.

## **Drain - Inlet Repair**

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1. Saw cut perimeter of existing inlet.
2. Excavate and remove concrete and existing inlet grates.
3. Reform inlet to proper dimensions. Place 1/2" rebar mat 12" on center.
4. Pour concrete using 4500 PSI. Supply barricades where needed.

## Drain - Inlet Repair

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1. Saw cut area around storm drain.
2. Excavate area to expose existing drain box walls.
3. Remove existing brick to a depth of 24".
4. Install new precast inlet box with drain gate.
5. Backfill area surrounding inlet.
6. Install 6" of 3/4" modified stone.
7. Tamp area to insure maximum compaction.
8. Install 4" binder material.
9. Install 2" of wearing course material.
10. Seal all joints using rubberized crackfill.

## Drain - Storm Drain Lid Fix

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1. Break up and remove broken storm lid.
2. Form up for new concrete lid.
3. Install 1/2" rebar mat.
4. Pour new concrete using 3500 PSI air entrained concrete.
5. Reset old frame and cover.
6. Install new steel angle.
7. Strip forms and clean up job site.

## Garage Power washing

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1. Application of concrete cleaning solution and/or de-greasing solution to entire concrete floor.
2. After sufficient dwell time, rinse off de-greasing solution, utilizing high pressure spray and hot water.
3. Pressure wash all areas of floors utilizing a 3000 PSI high pressure spray to remove all dirt, mold, mildew and other foreign contaminants.
4. Exhaust fans and lights must be left on during the cleaning process.
5. PCM will not be responsible for the proper working order of the drainage system in the parking garage.
6. The customer is responsible for ensuring that the drains are in proper working order prior to the commencement of the work.
7. There will be a \$300 per level surcharge if the drains are clogged or malfunctioning.

# Garage Rinsing

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1. Application of concrete cleaning solution and/or degreasing agent to oil spots only.
2. Allow sufficient dwell time of cleaning solution. Follow with a complete power rinse (3000 PSI) over the entire garage area to remove dirt, debris and only surface contaminants.
3. Water and water supply to be supplied by owner.
4. Exhaust fans and lights must be left on during the cleaning process.
5. PCM will not be responsible for the proper working order of the drainage system in the parking garage.
6. The customer is responsible for ensuring that the drains are in proper working order prior to the commencement of the work.
7. There will be a \$300 per level surcharge if the drains are clogged or malfunctioning.
8. Deep pollution lines and/or stains may not be fully removable.

# Garage Survey

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1. Perform detailed delamination survey with mapping to identify existing and potential problem areas (e.g., deteriorated delaminated concrete, cracking, water infiltration, joint failures).
2. Prepare and submit report summarizing findings and recommended repairs.

# Parking Lot Sweeping

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Sweep area clean of dirt and debris utilizing a mechanical sweeper, brooms and shovels.

# Pavement Marking Restripe to Current and Existing Conditions

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Re-stripe as to current and existing specifications. All work performed using Sherwin Williams or Franklin Set Fast Low VOC traffic marking paints which meet new Federal EPA standards for VOC emissions. Curbs (if included) will be scraped prior to painting.

## **Pavement Marking Layout and Installation**

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Layout and install as to existing site map and/or new specifications. All work performed using Sherwin Williams or Franklin Set Fast Low VOC traffic marking paints which meet new Federal EPA standards for VOC emissions. Curbs (if included) will be scraped prior to painting.

## **Precast Tee Slab Repair**

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1. Sound out area to be repaired, square cut and remove delaminated concrete.
2. Prior to patch back, sandblast all exposed steel and coat with rust inhibitors and weld/replace broken weld tabs.
3. Fill spall with high-density rapid-set patch mortar troweled to match existing surfaces.

## **Paver Resetting**

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1. Remove existing pavers.
2. Prepare sub base for installation of existing pavers.
3. Install pavers and regROUT as necessary with standard color mortar, matching any existing as closely as possible.
4. Clean and remove all debris.

## **Paver Replacement**

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1. Remove chipped broken or cracked pavers as marked.
2. Prepare sub base for installation of new pavers.

3. Install new pavers and regrout as necessary with standard color mortar, matching any existing as closely as possible.
4. Clean and remove all debris.

## **Paver Installation**

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1. Layout area to receive pavers.
2. Demo and remove existing cover materials and dispose of debris offsite.
3. Furnish and install 4" subbase of crushed stone and compact.
4. Furnish and install pavers to match existing as closely as possible.
5. Back sweep with masonry sand and tamp to level.
6. Clean up job site.

## **Retaining Wall Reconstruction**

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1. Excavate existing timber.
2. Tie wall and plantings along top.
3. Stockpile topsoil for backfill.
4. Backfill and compact stone base as required.
5. Furnish and install retaining wall.
6. Clean up job site.

## **Subgrade Stabilization**

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1. Layout and mark all areas of undercut repair.
2. Excavate areas to be undercut to a depth of —". Dispose of debris offsite.
3. Square surface and walls of undercut to produce vertical edges.
4. Refill undercut area with — crushed stone aggregate.
5. Roll crushed stone surface to achieve a true and firm finish.
6. Mechanically apply liquid asphalt tack coat to all vertical edges of repair.
7. Install — of base coarse asphalt. Tack coat edges and install — surface coarse hot asphalt mix to existing grade.
8. Roll to smooth uniform appearance.

