#### ASPHALT PAVING SPECIFICATIONS

### PART 1 - GENERAL

### 1.1 SUMMARY

### Section Includes:

Hot-mix asphalt paving overlay. 2. Pavement-marking paint.

#### PROJECT CONDITIONS

- Environmental Limitations: Do not apply asphalt materials if subgrade is wet or excessively damp, if rain is imminent or expected before time required for adequate cure, or if the following conditions are not met:
- 1. Asphalt Surface Course: Minimum surface temperature of 60 deg F (15.6 deg C) at time
- B. Pavement-Marking Paint: Proceed with pavement marking only on clean, dry surfaces and at a minimum ambient or surface temperature of [40 deg F (4.4 deg C) for oil-based materials] [55] deg F (12.8 deg C) for water-based materials], and not exceeding 95 deg F (35 deg C).

#### PART 2 - PRODUCTS

#### AGGREGATES

- A. Coarse Aggregate: ASTM D 692, sound; angular crushed stone, crushed gravel, or cured, crushed blast-furnace slag.
- B. Fine Aggregate: [ASTM D 1073] [or] [AASHTO M 29], sharp-edged natural sand or sand prepared from stone, gravel, cured blast-furnace slag, or combinations thereof.
- Mineral Filler: [ASTM D 242] [or] [AASHTO M 17], rock or slag dust, hydraulic cement, or other inert material.

### ASPHALT MATERIALS

- A. Asphalt Binder: AASHTO M 320 or AASHTO MP 1a, [PG 70-22]
- Tack Coat: [ASTM D 977] [or] [AASHTO M 140] emulsified asphalt, or [ASTM D 2397] [or] [AASHTO M 208] cationic emulsified asphalt, slow setting, diluted in water, of suitable grade and consistency for application.

### **AUXILIARY MATERIALS**

- A. Pavement-Marking Paint: MPI #32 Alkyd Traffic Marking Paint.
- 1. Color: [Yellow].

### MIXES

- Hot-Mix Asphalt: Dense, hot-laid, hot-mix asphalt plant mixes approved by authorities having jurisdiction[; designed according to procedures in AI MS-2, "Mix Design Methods for Asphalt Concrete and Other Hot-Mix Types"; and complying with the following requirements:
  - 1. Provide mixes with a history of satisfactory performance in geographical area where

### PART 3 - EXECUTION

### **EXAMINATION**

A. Proceed with paving only after unsatisfactory conditions have been corrected.

## COLD MILLING

- Clean existing pavement surface of loose and deleterious material immediately before cold milling. Remove existing asphalt pavement by cold milling to grades and cross sections
  - 1. Mill to a depth of [1-1/2 inches (38 mm)]

## **PATCHING**

- Hot-Mix Asphalt Pavement: Saw cut perimeter of patch and excavate existing pavement section to sound base. Excavate rectangular or trapezoidal patches, extending 12 inches (300 mm) into adjacent sound pavement, unless otherwise indicated. Cut excavation faces vertically. Remove excavated material. Recompact existing unbound-aggregate base course to form new subgrade.
- B. Tack Coat: Apply uniformly to vertical surfaces abutting or projecting into new, hot-mix asphalt paving at a rate of 0.05 to 0.15 gal./sq. yd. (0.2 to 0.7 L/sq. m).
  - Allow tack coat to cure undisturbed before applying hot-mix asphalt paving. Avoid smearing or staining adjoining surfaces, appurtenances, and surroundings. Remove spillages and clean affected surfaces.
- C. Patching: Fill excavated pavements with hot-mix asphalt base mix for full thickness of patch and, while still hot, compact flush with adjacent surface.

#### SURFACE PREPARATION

- A. General: Immediately before placing asphalt materials, remove loose and deleterious material from substrate surfaces. Ensure that prepared subgrade is ready to receive paving.
- B. Tack Coat: Apply uniformly to surfaces of existing pavement at a rate of 0.05 to 0.15 gal./sq. yd. (0.2 to 0.7 L/sq. m).
  - Allow tack coat to cure undisturbed before applying hot-mix asphalt paving.
  - Avoid smearing or staining adjoining surfaces, appurtenances, and surroundings. Remove spillages and clean affected surfaces.

### HOT-MIX ASPHALT PLACING

- A. Machine place hot-mix asphalt on prepared surface, spread uniformly, and strike off. Place asphalt mix by hand to areas inaccessible to equipment in a manner that prevents segregation of mix. Place each course to required grade, cross section, and thickness when compacted.
  - Spread mix at minimum temperature of 250 deg F (121 deg C).
- Regulate paver machine speed to obtain smooth, continuous surface free of pulls and tears in asphalt-paving mat.
- B. Place paving in consecutive strips not less than 10 feet (3 m) wide unless infill edge strips of a lesser width are required.
- Promptly correct surface irregularities in paving course behind paver. Use suitable hand tools to remove excess material forming high spots. Fill depressions with hot-mix asphalt to prevent segregation of mix; use suitable hand tools to smooth surface.

#### 3.6 **JOINTS**

- A. Construct joints to ensure a continuous bond between adjoining paving sections. Construct joints free of depressions, with same texture and smoothness as other sections of hot-mix asphalt course.
- Clean contact surfaces and apply tack coat to joints.
- Offset longitudinal joints, in successive courses, a minimum of 6 inches (150 mm). Offset transverse joints, in successive courses, a minimum of 24 inches (600 mm).
- Construct transverse joints at each point where paver ends a day's work and resumes work at a subsequent time. Construct these joints using either "bulkhead" or "papered" method according to AI MS-22, for both "Ending a Lane" and "Resumption of Paving Operations."

#### COMPACTION

- A. General: Begin compaction as soon as placed hot-mix paving will bear roller weight without excessive displacement. Compact hot-mix paving with hot, hand tampers or with vibratoryplate compactors in areas inaccessible to rollers.
- 1. Complete compaction before mix temperature cools to 185 deg F (85 deg C).
- Breakdown Rolling: Complete breakdown or initial rolling immediately after rolling joints and outside edge. Examine surface immediately after breakdown rolling for indicated crown, grade, and smoothness. Correct laydown and rolling operations to comply with requirements.
- Intermediate Rolling: Begin intermediate rolling immediately after breakdown rolling while hot-mix asphalt is still hot enough to achieve specified density. Continue rolling until hot-mix asphalt course has been uniformly compacted to the following density:
- 1. Average Density: 92 percent of reference maximum theoretical density according to ASTM D 2041, but not less than 90 percent nor greater than 96 percent.
- D. Finish Rolling: Finish roll paved surfaces to remove roller marks while hot-mix asphalt is still
- E. Edge Shaping: While surface is being compacted and finished, trim edges of pavement to proper alignment. Bevel edges while asphalt is still hot; compact thoroughly.
- F. Protection: After final rolling, do not permit vehicular traffic on pavement until it has cooled
- G. Erect barricades to protect paving from traffic until mixture has cooled enough not to become marked.

### INSTALLATION TOLERANCES

- A. Pavement Thickness: Compact each course to produce the thickness indicated within the
  - Base Course: Plus or minus 1/2 inch (13 mm). Surface Course: Plus 1/4 inch (6 mm), no minus.

# 3.9 PAVEMENT MARKING

- A. Do not apply pavement-marking paint until layout, colors, and placement have been verified
- B. Allow paving to age for [30] days before starting pavement marking.
- C. Sweep and clean surface to eliminate loose material and dust.
- D. Apply paint with mechanical equipment to produce pavement markings, of dimensions indicated, with uniform, straight edges. Apply at manufacturer's recommended rates to provide a minimum wet film thickness of 15 mils (0.4 mm).
  - 1. Broadcast glass beads uniformly into wet pavement markings at a rate of 6 lb/gal. (0.72)

### 3.10 FIELD QUALITY CONTROL

- A. Testing Agency: Owner will engage a qualified testing agency to perform tests and inspections.
- B. Replace and compact hot-mix asphalt where core tests were taken.
- Remove and replace or install additional hot-mix asphalt where test results or measurements indicate that it does not comply with specified requirements.

#### 3.11 DISPOSAL

A. Except for material indicated to be recycled, remove excavated materials from Project site and legally dispose of them in an EPA-approved landfill.

#### CLARIFICATION NOTES FOR ALL 6 BUILDINGS (ADDENDUM #4):

- 1 COMMERCIAL KITCHEN EQUIPMENT WILL BE SUPPLIED AND INSTALLED BY "STANDARD RESTAURANT SUPPLY". MR. TERRILL ROE. THEY WILL BE PROVIDING AND INSTALLING ALL OF THE EQUIPMENT, INCLUDING THE HOOD VENTILATION SYSTEMS. THEY WILL ALSO CONNECT TO THE GAS, ELECTRICAL AND PLUMBING WHERE TERMINATED AT THE WALLS, FLOOR AND CEILING, BY OTHER SUBCONTRACTOR WORK.
- 2 THE OWNER SHALL PROVIDE ALL TELEVISION SETS, LOCATED IN THE COMMON AREAS OF THE RESIDENTIAL AREAS. AND THE COMMUNITY CENTER
- THE CONTRACTOR SHALL PROVIDE AND INSTALL THE SUPPORT AND BLOCKING, AT THE WALLS WHERE THE TELEVISIONS WILL BE INSTALLED.
- 3 CONTRACTOR IS TO PROVIDE AN ALLOWANCE, IN THEIR BID, FOR PROVIDING AND INSTALLING THE RESIDENTIAL KITCHEN EQUIPMENT IN EACH OF THE RESIDENTIAL COMMON AREAS. PROVIDE AN ALLOWANCE FOR "MAYTAG" OR "GENERAL ELECTRIC" APPLIANCES, OR APPROVED EQUIVALENT.
- 4 CONTRACTOR IS TO PROVIDE AN ALLOWANCE, IN THEIR BID, INCLUDING A DESIGN FEE, FOR THE BASE AND WALL CABINETS THROUGHOUT THE ENTIRE 6 BUILDINGS. CABINETS TO BE GRADE 1, MAPLE CABINET DOORS AND DRAWERS, WITH GRADE 1 STAIN FINISH. WHITE MELAMINE FACED INTERIOR CABINET DOORS, SHELVES AND DRAWERS. CABINET HARDWARE TO BE "AMEROCK" CABINET HARDWARE OR EQUIVALENT. COUNTER TOPS TO BE GRANITE OR STONE, GRADE 1.
- THE FOLLOWING ROOMS SHALL HAVE BASE CABINETS ONLY, OR BASE AND WALL CABINETS,, WITH MIXED CABINETS AND DRAWERS:
- RESIDENT LAUNDRY A101 (BASE CABINET ONLY) B - KITCHEN A115 (BASE AND WALL CABINETS, WALL CABINETS NOT SHOWN ON ORIGINAL SUBMITTAL SETS, DELETE CROWN MOLDING AT WALL CABINETS)
- C RESIDENT LAUNDRY A127 (BASE CABINET ONLY) D - KITCHEN A132 (BASE AND WALL CABINETS, WALL CABINETS NOT SHOWN ON ORIGINAL SUBMITTAL SETS, DELETE CROWN MOLDING AT WALL CABINETS)
- E RESIDENT LAUNDRY B101 (BASE CABINET ONLY)
- F KITCHEN B115 (BASE AND WALL CABINETS, WALL CABINETS NOT SHOWN ON ORIGINAL SUBMITTAL SETS, DELETE CROWN MOLDING AT WALL CABINETS) G - RESIDENT LAUNDRY B125 (BASE CABINET ONLY)
- H KITCHEN B129 (BASE AND WALL CABINETS, WALL CABINETS NOT SHOWN ON ORIGINAL SUBMITTAL SETS, DELETE CROWN MOLDING AT WALL CABINETS)
- I LAB C111 (BASE AND WALL CABINETS, WITH LOCKS ON BOTH CABINETS AND DRAWERS, WALL CABINETS NOT SHOWN ON ORIGINAL SUBMITTAL SETS, DELETE CROWN MOLDING AT WALL CABINETS).
- J- MEDS C112 (BASE AND WALL CABINETS, WITH LOCKS ON BOTH CABINETS AND DRAWERS, DELETE CROWN MOLDING AT WALL CABINETS). K - STAFF BREAK ROOM C113 (BASE AND WALL CABINETS, DELETE CROWN MOLDING AT
- WALL CABINETS) L - RECEPTION C122 (BASE CABINET WITH RETURN: RECEPTION COUNTER W/ LOWER A.D.A. COUNTER)
- M BREAK AREA C129 (BASE AND WALL CABINETS, DELETE CROWN MOLDING AT WALL
- N REAR WALL OF RECEPTION/OFFICE D109 (BACK WALL TO HAVE BASE CABINET ONLY;/ FRONT OF RECEPTION AREA TO HAVE BASE CABINET WITH RECEPTION COUNTER AND LOWER A.D.A. COUNTER.
- 0 WARMING KITCHEN D101 (COUNTERTOP ONLY)
- P SERWING D104 (BASE CABINET)
- Q WORKOUT ROOM D113 (WALNUT CUBICLES W/ MELAMINE INTERIOR FINISH) R - YOGA STUDIO D114 (WALNUT CUBICLES W/ MELAMINE INTERIOR FINISH)
- S MALE EMPLOYEE LOCKER ROOM D115 (WALNUT FACED LOCKER DOORS WITH PADLOCK HARDWARE, SHELF AND DOUBLE HOOK; MELAMINE INTERIOR FINISH) T - FEMALE EMPLOYEE LOCKER ROOM D115A (WALNUT FACED LOCKER DOORS WITH
- PADLOCK HARDWARE, 1 SHELK AND DOUBLE HOOK; MELAMINE INTERIOR FINISH) U - DINING D103 (CURVED EATING BENCH AND HALF WALL-BENCH TO MATCH DINING
- FURNITURE SUPPLIED BY OTHERS)
- V RESIDENT LAUNDRY E101 (BASE CARINET ONLY)
- W KITCHEN E115 (BASE AND WALL CABINETS, WALL CABINETS NOT SHOWN ON ORIGINAL SUBMITTAL SETS; DELETE CROWN MOLDING AT WALL CABINETS) X - RESIDENT LAUNDRY E127 (BASE CABINET ONLY)
- Y KITCHEN E132 (BASE AND WALL CABINETS, WALL CABINETS NOT SHOWN ON ORIGINAL SUBMITTAL SETS, DELETE CROWN MOLDING AT WALL CABINETS) Z - SERVING CENTER E140 BASE CABINET ONLY)
- AA RESIDENT LAUNDRY F101 (BASE CABINET ONLY) BB - KITCHEN F115 BASE AND WALL CABINETS, WALL CABINETS NOT SHOWN ON ORIGINAL SUBMITTAL SETS DELETE CROWN MOLDING AT WALL CABINTES)
- CC RESIDENT LAUNDRY F127 (BASE CABINET ONLY) DD - KITCHEN F132 (BASE AND WALL CABINETS, WALL CABINETS NOT SHOWN ON ORIGINAL SUBMITTAL SETS, DELETE CROWN MOLDING AT WALL CABINETS)
- 5 ALL RESIDENTIAL BATHROOM COUNTERTOPS TO BE GRANITE OR STONE; PROVIDE ANGLED METAL BRACING WHERE GREATER THAN 3' WIDE, WITH A.D.A. PROTECTION ON

6 - ALL PUBLIC RESTROOM COUNTERTOPS TO BE GRANITE OR STOONE; PROVIDE ANGLED METAL BRACING WHERE GREATER THAN 3'-O" WIDE. WITH A.D.A. PROTECTION ON BRACING.

- 7 ALL INTERIOR DOOR FRAME CASEWORK TO BE STANDARD PAINT-GRADE,  $^3\!\!\!/$ " X 3" TRIM SURROUND, EACH SIDE (UNLESS OTHERWISE DIRECTED BY OWNER).
- 8 ALL ROOMS, i.e.: LINEN CLOSETS, STORAGE ROOMS, PANTRY, ETC., THROUGHOUT ALL 6 BUILDINGS TO HAVE 3/4" PLYWOOD OR PARTICLE BOARD SHELVING WITH MELAMINE FINISH TOP AND BOTTOM, AND EDGE. PROVIDE MINIMUM 6 SHELVES IN EACH ROOM. BRACE SHELVES AS REQUIRED FOR STURDY SUPPORT.
- 9 PROVIDE SOUND ATTENUATION INSULATION AT ALL RESIDENTIAL PARTY WALLS. AT MUSIC ROOM D117 (AS NOTED), AT PARTY WALL AT GATHERING/LEARNING AREA E136 (AS NOTED), AND AT PARTY WALLS SEPARATING RESIDENTIAL AREAS, BETWEEN KITCHENS AND COMMON AREAS.
- 10 ALL INTERIOR DOORS TO BE SOLID CORE WALNUT DOORS WITH STAINED FINISH. DOORS WITH MACHINED, AND KNOCK DOWN FRAMES ARE ACCEPTIBLE.
- 11 ALL WOOD BASE TO BE 1X4 MAPLE W/ RADIUSED TOP EDGE, OR APPROVED EQUIVALENT.
- 12 CARPET TO BE AS MANUFACTURED BY "TUFTEX CARPET" OR EQUIVALENT, R2X STAIN AND SOIL RESISTANCE, ANSO NYLON. PROVIDE SAMPLES FOR APPROVAL BY OWNER.
- 13 PROVIDE FRP (FIBERGLASS REINFORCED PLASTIC) PANEL SURROUND IN JANITOR'S CLOSETS, IN LIEU OF CERAMIC TILE NOTED.
- 14 DELETE "MARBLE" TILE FROM SPECIFICATION. TILE WILL BE EITHER CERAMIC OR QUARRY TILE AS NOTED. DALTILE OR EQUIVALENT. PLEASE SUBMIT SAMPLES FOR OWNER APPROVAL
- 15 TILE BACKSPLASH TO OCCUR WHEREVER A SINK OCCURS AT COUNTERTOPS. PROVIDE 4" HIGH CERAMIC TILE BACKSPLASH, DALTILE OR EQUIVALENT. PROVIDE SAMPLES FOR OWNER'S APPROVAL.
- 16 INTERIOR AND EXTERIOR SIGNAGE TO BE A SEPERATE BID PACKAGE PER OWNER. CONTRACTOR MAY PROVIDE AN ALLOWANCE FOR INTERIOR AND EXTERIOR SIGNAGE.
- 17 FIRE EXTINGUISHERS AND CABINETS TO BE PROVIDED AND INSTALLED BY CONTRACTOR.
- 18 ALL FURNISHINGS, i.e.: DINING AREA TABLES AND CHAIRS, POOL TABLES, WORK OUT EQUIPMENT, ETC., TO BE PROVIDED BY EITHER OWNER, OR BY KITCHEN EQUIPMENT
- 19 PLEASE NOTE THAT ALL BIDS TO BE SUBMITTED TO OWNER BY END OF WORK DAY, ON MONDAY, JANUARY 23, 2017. PLEASE SUBMIT TO OWNER'S OFFICE, LOCATED AT 5200 SOUTH HIGHLAND DRIVE, SUITE 210.

## MECHANICAL DUCT CLARIFICATION:

- INSTALL RIGID DUCTWORK THROUGHOUT THE PLENUM SPACE WITH MINIMAL DUCTWORK TRANSITIONS/FITTINGS, TO ALLOW FOR MAXIMUM AIRFLOW.
- INSULATE ALL SUPPLY AND RETURN DUCTWORK WITH R-VALUE (R-12 MIN.), AS INDICATED IN MECHANICAL PLAN VIEW GENERAL NOTES.
- A FLEXIBLE CONNECTION IS TO BE PROVIDED ON ALL MAIN SUPPLY AND RETURN AIR RUNS TO MINIMIZE VIBRATION FROM ASSOCIATED RTU.

### PLUMBING CLARIFICATION:

SHOWER VALVES TO BE "KOHLER", SINGLE HANDLE, OR EQUIVALENT AS APPROVED BY



Welch ect Donald

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consultant: #2

12-28-2016 project: Tenant Finish

Brighton Recovery a

4905, 4911, 4915, 4925, 4931, 4953 South 900 East Salt Lake County, Utah

revisions

SECON
EACH SEPERATE

2 ADDENDUM JANUARY 3, 2017 SECOND SUBMITTAL FOR EACH SEPERATE BUILDING PARCEL **JANUARY 6, 2017** 2 ADDENDUM #2-BUILDING 'C' JANUARY 17, 2017 ADDENDUM #4-BUILDING 'B' FEBRUARY 24, 2017 ADDENDUM #7-BUILDING 'A'

DECEMBER 28, 2016

BUILDING 'F', 'B', 'C', 'D', 'E'

MARCH 20, 2017

8 ADDENDUM #8-BUILDING 'A' data project no: drawn by:

date

checked by: title PARKING LOT RE-PAVING **SPECIFICATIONS** AND GENERAL

CLARIFICATION NOTES

sheet Z

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