

$$\text{Linking } z_i^{k,l}: z_i^{k,l} \leq w_i^{g,l} \quad \forall i \in N, k \in K, l \in L \quad (10)$$

$$z_i^{k,l} \leq w_i^{a,k} \quad \forall i \in N, k \in K, l \in L \quad (11)$$

$$z_i^{k,l} \leq \text{use}_k^a \quad \forall i \in N, k \in K, l \in L \quad (12)$$

$$z_i^{k,l} \leq \text{use}_l^g \quad \forall i \in N, k \in K, l \in L \quad (13)$$

$$z_i^{k,l} \geq w_i^{g,l} + w_i^{a,k} + \text{use}_k^a + \text{use}_l^g - 3 \quad \forall i \in N, k \in K, l \in L \quad (14)$$

$$\text{Time: } a_i^k \geq t_A^{\text{insp}} \cdot w_i^{a,k} \quad \forall i \in N, k \in K \quad (15)$$

$$g_i^l \geq t_G^{\text{insp}} \cdot w_i^{g,l} \quad \forall i \in N, l \in L \quad (16)$$

$$a_i^k + t_{i,d_A}^A \cdot w_i^{a,k} \leq T_A^{\max} + M_A \cdot (1 - w_i^{a,k}) \quad \forall i \in N, k \in K \quad (17)$$

$$g_i^l + t_{i,d_G}^G \cdot w_i^{g,l} \leq T_G^{\max} + M_G \cdot (1 - w_i^{g,l}) \quad \forall i \in N, l \in L \quad (18)$$

$$\text{Route Length: } \sum_{i \in N} w_i^{a,k} \cdot (2 \cdot t_{d_A,i}^A) + \sum_{i \in N} w_i^{a,k} \cdot t_A^{\text{insp}} \leq T_A^{\max} + M_A \cdot (1 - \text{use}_k^a) \quad \forall k \in K \quad (19)$$

$$\sum_{i \in N} w_i^{g,l} \cdot (2 \cdot t_{d_G,i}^G) + \sum_{i \in N} w_i^{g,l} \cdot t_G^{\text{insp}} \leq T_G^{\max} + M_G \cdot (1 - \text{use}_l^g) \quad \forall l \in L \quad (20)$$

$$\text{Domain: } w_i^{a,k}, w_i^{g,l}, \text{use}_k^a, \text{use}_l^g, z_i^{k,l} \in \{0, 1\} \quad \forall i \in N, k \in K, l \in L \quad (21)$$

$$a_i^k, g_i^l \geq 0 \quad \forall i \in N, k \in K, l \in L \quad (22)$$