Know what's below before you dig. Call 555 S. Saginaw Street, Suite 201 Flint, MI  48502.

THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE DOWNTOWN DEVELOPMENT AUTHORITY, OR DDA, ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

ISSUED FOR BIDS FEBRUARY 18, 2022
The Contractor shall be responsible for the complete maintenance of the temporary roadway surface and soil erosion control measures within the construction area and shall complete the work in the approved sequence. This work is included in the item of work "General Conditions."  

10. Postal delivery and refuse pickup service shall be maintained at all times by the Contractor. 

11. All light poles, luminaires, signs, fillings, hydrants, valves and castings removed during construction are the property of the City of Ann Arbor. The Contractor within 48 hours shall deliver to City of Ann Arbor Field Operations and Maintenance Facility at 700 Whittier Service Center located at 4201 North School Road. 

12. Where street utilities are undamaged due to construction activities, they shall be removed and replaced as directed by the Engineer. 

13. The Contractor shall be responsible for the complete maintenance of the temporary roadway surface and soil erosion control measures within the construction area and shall complete the work in the approved sequence. This work is included in the item of work "General Conditions." 

14. New and existing lines which are to be left in place shall receive steel fiber protection for the duration construction. 

15. Sewer pipe connections shall be coupled with a fascia flange and a stainless steel weld ring. 

16. The location of earth cover plates and the paving area shall be approved by the Engineer before the work is to be done. 

17. Sewer pipe connections which are to be left in place shall be protected with fascia flange and welded stainless steel weld ring. 

18. For payment for the damage to the pavement the damage in dollars shall be calculated using the following: 

19. The contract work shall be paid for as prescribed in the specifications and included in the bid price. Prior to payment for this item, the Contractor shall submit a final statement to the Engineer for approval. All costs associated with the installation of these devices shall be included in the payment for the sewer. 

20. Prices and rates shall be in2 reference to the material listed, as stated in the specification. It is understood that the Contractor shall be reimbursed for the material at the costs shown with the 100% mark-up. 

21. The contractor shall make all necessary provisions to protect the existing public utilities. Damage to the public road during the course of construction may necessitate milling and regrading of the damaged areas prior to acceptance.
TYPICAL EXISTING CROSS SECTION A - STATION 4+25 TO 7+00

- Existing Subgrade
- Road Concrete Pavement
- Existing Concrete Sidewalk
- Existing Curb and Gutter

TYPICAL PROPOSED CROSS SECTION A - STATION 4+25 TO 7+00

- Clean Washed MDOT 6A Sand Subbase Course, Class II
- Aggregate Base Course, Class II
- Highway Concrete Pavement
- Concrete Pavement
- Existing Storm Sewer
- Existing Sanitary Sewer
TYPICAL EXISTING CROSS SECTION C - STATION 10+65 TO 12+35

NOTES:
1. PAVEMENT SECTION AND ASSUMED WIDTH BASED ON BORING B-5 IN GEOTECHNICAL REPORT.

TYPICAL PROPOSED CROSS SECTION C - STATION 10+65 TO 12+35

NOTES:
1. PAVEMENT SECTION AND ASSUMED WIDTH BASED ON BORING B-5A IN GEOTECHNICAL REPORT.
PEDESTRIAN TEMPORARY TRAFFIC CONTROL NOTES

1. PROVIDE A SMOOTH, CONTINUOUS, HARD SURFACE THROUGH THE LENGTH OF THE APR.
2. PROVIDE AN ALTERNATE PEDESTRIAN ROUTE (APR) AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.
3. PROVIDE THE APR ON THE SAME SIDE OF THE STREET AS THE DISRUPTED ROUTE.
4. WHERE IT IS NOT FEASIBLE TO PROVIDE A SAME SIDE APR, PROVIDE A DETOUR ON THE OTHER SIDE OF THE STREET.
5. PEDESTRIAN ACCESS SHALL BE PROVIDED TO ALL ADJACENT PROPERTIES, BUILDINGS, RESIDENCES AND COMMERCIAL PROPERTIES AT ALL TIMES. THE TEMPORARY PEDESTRIAN FACILITIES SHALL BE MAINTAINED IN THE SAME LEVELE OF ACCESSIBILITY AND DETECTABILITY AS THE FACILITY THAT IS BEING CLOSED. THE TPAR SHALL BE MAINTAINED IN A SERVICEABLE CONDITION AVAILABLE FOR PEDESTRIAN USE.

PEDESTRIAN ACCESS ROUTE (TPAR) REQUIREMENTS

- A minimum unobstructed width of 4 FEET. IF THE TPAR IS LESS THAN 5 FEET IN WIDTH, A 5 FOOT BY 5 FOOT PASSING SPACE SHALL BE PROVIDED AT LEAST EVERY 200 FEET.
- THE SURFACE OF THE TPAR SHALL BE SMOOTH AND CONTINUOUS FOR THE LENGTH OF THE TPAR.
- THE TPAR SHALL BE LOCATED SOMEPLACE OTHER THAN ACROSS THE STREET FROM THE SIDEWALK CLOSURE.
- PEDESTRIAN DETOUR TRAILBLAZING SIGNS SHOULD BE USED IF THE PEDESTRIAN DETOUR IS LOCATED SOMEPLACE OTHER THAN ACROSS THE STREET FROM THE SIDEWALK CLOSURE.
- PEDESTRIAN TRAFFIC SIGNALS CONTROLLING CLOSED CROSSWALKS SHALL BE COVERED OR DEACTIVATED.
PEDESTRIAN CHANNELIZERS

4' MINIMUM
5' DESIRABLE

PROVIDE TEMPORARY WALKWAY SURFACE

BYPASS ON ADJACENT AVAILABLE RIGHT OF WAY

BYPASS TYPE A

SIDEWALK BYPASS USING PARKING OR SHOULDER ON LOW SPEED ROADWAY

BYPASS TYPE B

NOTE: MAY ONLY BE USED ON ROADWAY WITH POSTED SPEED OF 45 MPH OR LESS.

TEMPORARY TRUNCATED DOMES, REQUIRED IF CROSSING A MINOR ROAD OR COMMERCIAL DRIVEWAY.

NOTE: MAY ONLY BE USED ON ROADWAY WITH POSTED SPEED OF 45 MPH OR LESS.

4' MINIMUM
5' DESIRABLE

BARRIER WITH TAPER AND ATTENUATION

PEDESTRIAN CHANNELIZERS

BYPASS TYPE C

TYPICAL SIGN MESSAGE FOR A TEMPORARY PEDESTRIAN DETOUR SHOULD INCLUDE INFORMATION SUCH AS THE DURATION OF THE WALKWAY RESTRICTIONS (BEGINNING AND/OR END DATES) AND A PROJECT CONTACT NUMBER FOR 24 / 7 QUESTIONS OR REPORTING HAZARDS.

SEE MMUTCD FOR GUIDANCE ON PLACEMENT AND USAGE OF BARRIER.

SPECIFIC NOTES
1. TEMPORARY CURB RAMPS WITH DETECTABLE WARNINGS.
2. TEMPORARY CURB RAMPS AND DETECTABLE WARNINGS SHOULD BE USED AT EACH CURVE WIDENER SITE. TEMPORARY CURB RAMPS SHOULD BE USED AT MINOR ROAD OR COMMERCIAL DRIVEWAY CROSSINGS.
3. TEMPORARY CURB RAMPS SHOULD BE USED AT CURB WIDENERS FOR PEDESTRIAN CHANNELIZERS USE.
4. PEDIMENTAL CURB RAMPS SHOWN ON PLANS ARE A MINIMUM 25 FEET LONG AND 1 FEET MAINTENANCE OF TRAFFIC}

LEGEND

EXISTING PEDESTRIAN SURFACE
WORK AREA
PEDESTRIAN CHANNELIZATION DEVICE
BARRIER
SIDEWALK BARRICADE
DIRECTION OF TRAFFIC
TRAFFIC CONTROL DEVICE

STATE ST STREETSCAPE - CITY OF ANN ARBOR

MAINTENANCE OF TRAFFIC CITY OF ANN ARBOR PEDESTRIAN CHANNELIZERS
**SPECIFIC NOTES**

1. Curb ramps shall be 48" min. width with a firm, stable and slip resistant surface.
2. Protective edging with 2" min. height shall be installed where a curb ramp or landing platform has a vertical drop of 6" or greater, protective edging shall be continuous where a side apron or landing platform has a vertical drop of 3" or more.
3. Detectable edging with 6" min. height and contrasting color shall be placed on all curb ramps landing where the walkway changes direction (turns).
4. Curb ramps and landing platforms shall have a 2% max. cross slope.
5. Clear space of 48" x 48" min. shall be provided above and below the curb ramp.
6. The curb ramp walkway edge shall be marked with a contrasting color, 2" to 4" wide marking. The marking is optional where color contrasting edge is used.
7. Water flow in the gutter system shall not be impeded.
8. Lateral joints or gaps between surfaces shall be less than 1/2" in width.
9. Changes between surface height shall not exceed 1/2".
10. Lateral edges should be vertical up to 1/4" and beveled at 1:2 between 1/4" and 1/2" height.

**Temporarily Curbed Ramps**

- Parallel to curb
- Perpendicular to curb

**Diagram Notes:**

- 3" to 4" wide edge marking
- Non-slip surface
- Curb face
- Clear space
- Edge treatment
- Drainage
- 48" x 48" min. landing area
- Detectable edging 6" min. height
- Protective edging 2" min. height above ramp surface
- Cross slope 2% max.

**Typical Details:**

- Showed with protective edge
- Showed with side apron

**State St. Streetscape - City of Ann Arbor**

- Maintenance of Traffic
- City of Ann Arbor Pedestrian

**Drawing Information:**

- Title: State St. Streetscape - City of Ann Arbor
- Sheet No: 100% Bid Set
- Date: 02-18-2022
TEMPORARY PEDESTRIAN ACCESS

RAILINGS OR OTHER OBJECTS MAY PROTRUDE A MAXIMUM OF 4 INCHES INTO THE WALKWAY CLEAR SPACE WHEN LOCATED A MINIMUM OF 27 INCHES ABOVE THE WALKWAY SURFACE.

ANY PEDESTRIAN DEVICES USED TO PROVIDE POSITIVE PROTECTION FOR PEDESTRIANS OR WORKERS SHALL MEET CRASHWORTHY REQUIREMENTS APPROPRIATE FOR THE BARRIERS APPLICATION.

BARRICADES SHALL BE PLACED ACROSS THE ENTIRE WIDTH OF THE WALKWAY SURFACE.

TEMPORARY WALKWAY SURFACE

DETECTABLE EDGE SHALL BE CONTINUOUS AND A MINIMUM OF 6 INCHES HIGH ABOVE THE WALKWAY SURFACE.

PEDESTRIAN CHANNELIZER USING A BARRIER (MINIMUM REQUIREMENTS)

DETECTABLE EDGE SHALL BE CONTINUOUS AND A MINIMUM OF 6 INCHES HIGH ABOVE THE WALKWAY SURFACE.

PEDESTRIAN CHANNELIZER (MINIMUM REQUIREMENTS)

NARROW TEMPORARY PEDESTRIAN ACCESS ROUTE PASSING DETAIL

HANDRAILING EDGE

PEDESTRIAN CHANNELIZER USING A BARRIER (MINIMUM REQUIREMENTS)

PEDESTRIAN CHANNELIZER (MINIMUM REQUIREMENTS)

SIDEWALK BARRICADE

STATE ST STREETSCAPE - CITY OF ANN ARBOR

MAINTENANCE OF TRAFFIC CITY OF ANN ARBOR PEDESTRIAN TYPICAL DETAILS
NOTE:
1. CONTRACTOR SHALL ADJUST (RAISE OR LOWER) ALL EXISTING VALVES, MANHOLE RIMS, HATCHES, AND HANDHOLES INDICATED TO REMAIN TO MATCH PROPOSED GRADE ELEVATIONS AS DESIGNATED ON THE GRADING PLANS.
2. DTE WILL BE INSTALLING A NEW GAS MAIN THROUGH PARTS OF THE PROJECT AREA DURING THE STREET RECONSTRUCTION. THE CONTRACTOR IS TO COORDINATE WORK WITH DTE AS NECESSARY.
4. ALL BRICK REMOVAL NEEDS TO BE SALVAGED TO UNIVERSITY OF MICHIGAN.
5. CONTRACTOR INSTALLS TREE PROTECTION FENCE AT LIMIT DETERMINED BY ENGINEER.
NOTE:
5. CONTRACTOR INSTALLS TREE PROTECTION FENCE AT LIMIT DETERMINED BY ENGINEER.

4. ALL BRICK REMOVAL NEEDS TO BE SALVAGED TO UNIVERSITY OF MICHIGAN
NOTE:
1. CONTRACTOR SHALL ADJUST (RAISE OR LOWER) ALL EXISTING VALVES, MANHOLE RIMS, HATCHES, AND HANDHOLES INDICATED TO REMAIN TO MATCH PROPOSED GRADE ELEVATIONS AS DESIGNATED ON THE GRADING PLANS.
2. DTE WILL BE INSTALLING A NEW GAS MAIN THROUGH PARTS OF THE PROJECT AREA DURING THE STREET RECONSTRUCTION. THE CONTRACTOR IS TO COORDINATE WORK WITH DTE AS NECESSARY.
3. THE PROJECT AREA IS KNOWN TO HAVE INCLUDED A TROLLEY TRACK. IN SOME PARTS OF DOWNTOWN, THE SUBSURFACE AREA INCLUDES... THE TRACKS. IF THE STREET RECONSTRUCTION PROJECT UNCOVERS CONCRETE FOUNDATIONS FROM THE TRACKS IN THE PROJECT AREA, THE CONTRACTOR IS TO REMOVE THE FOUNDATIONS ACCORDING TO THE ENGINEER. THE DEMOLITION AND REMOVAL THE TRACKS IS TO BE PAID FOR AS "TROLLEY TRACK REMOVAL".
4. ALL BRICK REMOVAL NEEDS TO BE SALVAGED TO UNIVERSITY OF MICHIGAN.
5. CONTRACTOR INSTALLS TREE PROTECTION FENCE AT LIMIT DETERMINED BY ENGINEER.
TRAFFIC SIGNAL REMOVAL SHEET
STATE ST @ LIBERTY ST

STATE ST
66° R.O.W.
25 MPH

STAGE 2

LEFT

STATE ST
S. State
E. Liberty
NOTE:
1. PLANTING SOIL TO EXTEND TO THE LIMITS OF THE TREE GRATE, FULL DEPTH 4'-0".

CONCRETE SIDEWALK
DEEPROOT UB12-2 ROOT BARRIER, TYP.; INSTALL FOUR PER TREE, EQUALLY SPACE AT CONCRETE EDGE RESTRAINT.

MDOT CLASS II GRANULAR MATERIAL
PLANTING SOIL, TYP.; COMPACT TO 70-80% PROCTOR.

SUBGRADE
ROOT BALL STABILIZER (BEYOND). 3" CLEAR 6". GEOTEXTILE FABRIC 8".

1'-0" 4'-0"
C9.1 C9.4

1" 3"
STATE STREET

STATE ST STREETSCAPE - CITY OF ANN ARBOR

BENCH MARK
SURVEY
REV. NO.
DESCRIPTION
DR.BY
DATE
CH.BY

100% BID SET 02-18-2022

SITE DETAILS 4

SCALE: NTS

TREE GRATE

TREE GUARD

SILT FENCE

BOLLARD
NOTES:
1. ALL MATERIALS, EQUIPMENT AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT CITY OF ANN ARBOR STANDARD SPECIFICATIONS AND DETAILS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT.
GENERAL NOTES:
1. ALL SIGNAGE TO REMAIN EXCEPT WHERE REM IS NOTED IN C5 AND C7 SERIES
   · ADJ: ADJUSTED SIGNAGE (MOVED TO NEW LOCATION)
   · NEW: NEW SIGNAGE
   · ADD: SIGNAGE ADDED TO AN EXISTING POLE/POST
2. SEE SHEET C9.2 FOR BIKEWAY PAVEMENT MARKING DETAILS.
3. ALL LONGITUDINAL, CROSS WALK, STOP BAR, AND ROADWAY PAVING SYMBOLS AND MARKINGS TO BE RECESSED. COORDINATE WITH ENGINEER.
3. ALL LONGITUDINAL, CROSS WALK, STOP BAR, AND ROADWAY PAVING SYMBOLS AND MARKINGS TO BE RECESSED. COORDINATE WITH ENGINEER.

2. SEE SHEET PADDLE

ADD: SIGNAGE ADDED TO AN EXISTING POLE/POST

ROAD CONCRETE PAVEMENT, COLORED,
ROAD CONCRETE PAVEMENT, 8 INCH,
SIDEWALK RAMP, 8 INCH
PAVT MRKG, POLYUREA, 4 INCH, WHITE
PAVT MRKG, POLYUREA, 4 INCH, YELLOW
CONCRETE SIDEWALK, 8 INCH
CONCRETE SIDEWALK, 6 INCH
PAVT MRKG, OVLY COLD PLASTIC, SPEED HUMP SYM.
PAVT MRKG, OVLY COLD PLASTIC, BIKE SYM.

C9.2 FOR BIKEWAY PAVEMENT MARKING DETAILS.

NEW: "SPEED HUMP" (W17-1)

MATCH LINE SHEET

NEW: "BIKE WARNING SIGN"

C9.3

PAVT MRKG, ENDURABLEND, BIKE LANE GREEN
PAVT MRKG, POLYUREA, 12 INCH, STOP BAR OR CROSSWALK
PAVT MRKG, SHARED PATH SPECIAL SYM.

ADD TO LIGHT POLE:

NEW: BIKE WARNING SIGN (ARROW POINTING WEST) AND 3AM - 6AM NO PARKING (ARROW POINTING EAST), FACING SOUTH

ADD TO LIGHT POLE:

NEW: 15 MIN LIMIT PARKING SIGN (ARROW POINTING EAST) AND 3AM - 6AM NO PARKING METER BRACKET

ADD ON MAST ARM: "NO TURN ON RED" SIGN

NEW: COMMERCIAL LOADING ZONE (R7-6, ARROW POINTING WEST), FACING SOUTH

NEW: 3AM-6AM NO PARKING (ARROW POINTING NORTH) , FACING EAST

NEW: "NO TURN ON RED" SIGN

ADD ON MAST ARM: "NO TURN ON RED" SIGN

NEW: "SPEED HUMP"

ADD TO LIGHT POLE: 3AM - 6AM NO PARKING (ARROW POINTING WEST), FACING SOUTH

ADD TO LIGHT POLE: "NO TURN ON RED" SIGN

ADD TO LIGHT POLE: 3AM-6AM NO PARKING (ARROW POINTING NORTH) , FACING EAST

NEW: "NO TURN ON RED" SIGN

ADD TO LIGHT POLE: "NO TURN ON RED" SIGN

NEW: COMMERCIAL LOADING ZONE (R7-6, ARROW POINTING WEST), FACING SOUTH

NEW: "BIKES USE PED SIGNAL" SIGN (R9-5) AND "NO TURN ON RED" SIGN
MATCH LINE SHEET
C10.3
MATCH LINE SHEET
C10.4

REM: "WALK YOUR BIKE" AND "SHARE LANE" SIGN
ADD TO LIGHT POLE: "NO PARKING" (R7-9a) AND "BIKE LANE" (W11-1) SIGN, FACING EAST

BIKE LANE
NEW: COMMERCIAL LOADING ZONE SIGN (ARROW POINTING SOUTH) , FACING EAST
NO PARKING
15 MINUTE LIMIT
LOADING AND UNLOADING ZONE
TOW AWAY ZONE

NEW: 3AM-6AM NO PARKING (ARROW POINTING SOUTH) AND COMMERCIAL LOADING ZONE SIGN (ARROW POINTING NORTH) , FACING EAST
NO PARKING
15 MINUTE LIMIT
LOADING AND UNLOADING ZONE
TOW AWAY ZONE

CONCRETE SIDEWALK, 6 INCH, TYP.
CONCRETE SIDEWALK, 8 INCH, TYP.
ROAD CONCRETE PAVEMENT, 8 INCH, TYPE 1, TYP.
ROAD CONCRETE PAVEMENT, 8 INCH, TYPE 2, TYP.
ROAD CONCRETE PAVEMENT, COLORED, 8 INCH, TYP.
SIDEWALK RAMP, 8 INCH, TYP.

SIGNAGE AND PAVEMENT MARKING PLAN 4

GENERAL NOTES:
1. ALL SIGNAGE TO REMAIN EXCEPT WHERE REM IS NOTED IN C5 AND C7 SERIES
· ADJ: ADJUSTED SIGNAGE (MOVED TO NEW LOCATION)
· NEW: NEW SIGNAGE
· ADD: SIGNAGE ADDED TO AN EXISTING POLE/POST
2. SEE SHEET C9.2 FOR BIKEWAY PAVEMENT MARKING DETAILS.
3. ALL LONGITUDINAL, CROSS WALK, STOP BAR, AND ROADWAY PAVING SYMBOLS AND MARKINGS TO BE RECESSED. COORDINATE WITH ENGINEER.
**LIGHTING SCHEDULE**

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Manufacturer</th>
<th>Model</th>
<th>Part</th>
<th>Voltage</th>
<th>Lamp</th>
<th>Mounting</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>LIGHTING FIXTURE SCHEDULE</td>
<td>LUMECON</td>
<td>LBOF-2</td>
<td>84W</td>
<td>120-277V</td>
<td>UNV</td>
<td>LED; 6000LM; 3000K CCT; 80 CRI</td>
<td>LIGHT POLE AND FIXTURE TO BE PURCHASED BY ANN ARBOR DDA.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MARKETLITE</td>
<td>CALI LIGHTING</td>
<td>1W</td>
<td>100LM</td>
<td>120V</td>
<td>LED; 1W; 100LM</td>
<td>18&quot; MAXIMUM SAG AT MID POINT OF FESTOON LIGHT RUN.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HAPCO</td>
<td>N/A</td>
<td>RSA</td>
<td>POLE</td>
<td>N/A</td>
<td>M</td>
<td>LED; 1W; 100LM</td>
</tr>
</tbody>
</table>

**LIGHTING CONTROL RISER DIAGRAM**

- 1. UTILIZE VERTICAL ENCLOSURE WITH CONDENSER FOR CONTROL KNOBS AND INDICATORS. INSTALL AUTO TRANSFORMER IN ENCLOSURE.
- 2. PROVIDE 120V TURNLOCK TYPE PHOTOCELL TO BE MOUNTED TO THE TOP OF ELECTRICAL ENCLOSURE. INSTALL PER MANUFACTURER RECOMMENDATIONS. MANUFACTURER: TORK OR APPROVED EQUIVALENT.
- 3. NOTE: POLE LIGHTING FIXTURES AND FESTOON LIGHTS - ON AT DUSK, OFF AT DAWN VIA PHOTOCELL. POLE HIGH RECEPTACLES (e.g. HOLIDAY LTG) - ON AT DUSK, OFF AT DAWN VIA PHOTOCELL.
NOTE:
1. PROVIDE TEMPORARY POWER AS NEEDED TO NEW LIGHTS IN STAGE 1 AND EXISTING LIGHTS IN STAGE 2 PRIOR TO THE CONCLUSION OF STAGE 1 WORK. WORK TO PROVIDE TEMPORARY POWER WILL NOT BE PAID FOR SEPARATELY.
LIGHT POLE FOUNDATION

1. CONTRACTOR TO PROVIDE PREFABRICATED ANCHOR BOLT BUILD-UP
2. THE CITY WILL INSPECT THE EXCAVATED HOLE AND THE ANCHOR BOLT BUILD-UP AND PROVIDE WRITTEN APPROVAL PRIOR TO THE PLACEMENT OF CONCRETE
3. NO WATER IS TO BE IN HOLE AT TIME OF CONCRETE PLACEMENT
4. CONCRETE SHALL BE VIBRATED DURING PLACEMENT
5. CONTRACTOR WILL PROVIDE NECESSARY CONDUIT FOR ENTRY. PAID FOR AT THE CONTRACT UNIT PRICE FOR 2" CONDUIT
6. COPPER CLAD GROUND ROD (1 REQUIRED) TO BE 5/8" DIA. x 8'-0"
7. CONDUIT TO EXTEND 1-2" ABOVE BASE. CABLES TO EXTEND 6" OUTSIDE OF HANDHOLE
8. GROUND CABLE SHALL BE #6 SOFT BARE COPPER WIRE WELDED TO GROUND ROD WITH 24" SLACK ABOVE FOUNDATION TOP; THE NEUTRAL AT THE POLE IS TO BE CONNECTED TO THIS GROUND CABLE.
LEGEND

1. Concrete Trench for Conduit and Support

TYPICAL UNDERGROUND CONDUIT DETAIL

STACKED HANDELLE ASSEMBLY

OUTDOOR ENCLOSURE DETAIL

ELECTRICAL DETAILS 2
NOTES:

NEWER CUT CENTRAL LEADERS PRUNE ONLY TO REMOVE DEAD OR DAMAGED BRANCHES.

12" MIN. FOR UP TO 3" CAL.

18" MIN. FOR 3" CAL. & LARGER

30° - 45°

MULCH SAUCER DIMENSION - SEE SCHEDULE

· 2" CAL. & SMALLER
· BETWEEN 2.5" & 3.5" CAL.
· 4" CAL. - 6" CAL.

SCHEDULES

SIZE

· DOUBLE STAKE
· TRIPLE STAKE
· TRIPLE GUY

STAKING / GUYING

· 4' DIA.
· 5' DIA.
· 6' DIA.

MIN. 8' DIA.- EXTEND OUTSIDE DIAMETER TO INCLUDE GUYING STAKES

MULCH SAUCER DIMENSION (NON-BED AREAS)

1 2 3 4 5 6 7 8 9 10 11 12

TOP OF STAKES AND GUYS TO BE SET ABOVE FIRST BRANCHES. SET STAKES VERTICAL AND AT SAME HEIGHT

REMOVE BURLAP FROM TOP 1/3 OF ROOT BALL

2" DEEP MULCH. DO NOT COVER ROOT FLARE

MOUND PLANTING BACKFILL TO FORM SAUCER AROUND PLANT PIT. SET SAUCER OUTSIDE OF GUY STAKES

STAKES TO EXTEND 12" BEHIND TREE PIT IN CASSETTE MULCH

COMPACTED PLANTING BACKFILL

NOTE:

CONTAINER PLANTS: REMOVE POTS AND SEPARATE POT BOUND ROOTS AS SPECIFIED.

SPACING AS SHOWN ON PLANS AND ON PLANT LIST

SET ROOT FLARE (COLLAR) AT FINISHED GRADE

1" DEEP MULCH. DO NOT COVER ROOT FLARE

PLANT BED MIX

NOTES:

ALL PLANTING MULCH TO BE SHREDDED NATURAL HARDWOOD BARK, WITH NO ADDED COLORANTS