2016 AASHTO R/W, Utilities, & Outdoor Advertising

WYDOT Utility Accommodation

Keri Bohlmann, P.E.
Utilities & DSS Supervisor

2016 AASHTO ROWUOAC & NAHBA Conference
WYDOT Permitting

Past Practices

• Little to no review done of the permit
• Companies placed facilities wherever they wanted them (no oversight)
• DOT attitude was “They can always move it later” or “just get out of our R/W”
• Numerous conflicts and relocations that were unnecessary
WYDOT Permitting

Present Practices

- Multiple Reviews
  - License Tech
  - Construction Engineer
  - Maintenance Foreman
  - District Maintenance Engineer
  - Headquarters

- Permit Requirements
  - Facility located at DOT request (design or exc)
  - Plan/Staking Sheet
  - Traffic Control
TRANSPORTATION COMMISSION OF WYOMING and
WYOMING DEPARTMENT OF TRANSPORTATION

LICENSE

1. Parties: The parties to this License are... [Redacted]

2. Purpose of License: The Licensee is planning the construction of...

   Section(s) Township Range County(s)...
   Milepost (Mile) Company Tracking Number:

   GPS Coordinates:
   [Redacted]

   For encroachments, attach Form M-54G – Additional GPS Coordinates...

3. Terms of License and Required Approvals:

   This License is effective when all parties have executed it and...

4. Responsibilities of Licensee:

   a. Condition of Approval: As a condition for approval for this License, the Licensee agrees to locate the Facility identified by this license at the Licensee’s expense, in accordance with Wyoming Statute § 37-12-301 et seq. Wyoming Underground Facilities Notification Act to include the nature, location and depth of the Facility. The location and depth will be described on an engineering drawing, using three dimensional planes and a datum reference determined by the Agency. The location shall be accompanied during Facility construction which force a deviation in excess of two feet from the approved horizontal alignment, the respective district maintenance engineer will be contacted prior to making the deviation, for approval of the deviation and an amended exhibit will be filed by the Licensee. See Plan/Plot Sheet.

   b. Plan/Plotting Sheet: The Licensee shall submit to the Agency an “As-Designed” plan showing the actual location of the facilities within the Agency’s right-of-way. Exhibit “A” and the “As-Constructed” plan shall comply with the Wyoming Department of Transportation Utility Accommodation Regulation and the following requirements:

Page 1 of 5
Utility Requirements

• Company responsible for all local/state/federal laws, rules, and regulations
• Company responsible for determining R/W locations
• Company responsible for determining how DOT holds the R/W
• No above ground appurtenances
• Facility cannot require frequent maintenance
• No facilities located in the clear zone
• Multiple service lines must be combined into 1 crossing
• All companies involved in the project must be licensed
• Company must join One Call of Wyoming
Plan/Staking Sheet Requirements

- Right of Way
- Features
- Other Company’s Utilities
- Measurements
- Companies Existing Facilities
- Above ground features
- Size and capacity
- Exhibit highlights
- Legal description
- Directional reference
Typical Plan/Staking Sheet
GPS Form

TRANSPORTATION COMMISSION OF WYOMING and its WANTOMING DEPARTMENT OF TRANSPORTATION

Additional GPS Coordinates

GPS Datum NAD83 accuracy to ±30’ in decimal/degree format (e.g. Latitude 44.12345, Longitude -105.56789). Supply GPS coordinates for each encroachment into/out of WYDOT’s right-of-way or for each change in direction within the right-of-way. You may disregard this form if your license exhibit contains this information.

Use the diagram below to label your GPS locations per the above example.

<table>
<thead>
<tr>
<th>Location</th>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Location 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Location 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Location 4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Utilities Database

<table>
<thead>
<tr>
<th>Route (ML)</th>
<th>Milepost</th>
<th>Folder No</th>
<th>Dist. Ref. No.</th>
<th>Utility ID</th>
<th>Company</th>
<th>Company Ref. No.</th>
<th>Facilities Type</th>
<th>Encroachment Type</th>
<th>Sec</th>
<th>Twn</th>
<th>Rng</th>
<th>GPS Longitude</th>
<th>GPS Latitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>ML 1904</td>
<td>0</td>
<td>53092</td>
<td></td>
<td>BYWC</td>
<td>BROADWNG</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ML 1904</td>
<td>0</td>
<td>52658</td>
<td></td>
<td>BYDZ</td>
<td>ENRON-CO</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ML 1904</td>
<td>0.35</td>
<td>35868</td>
<td></td>
<td>BFJO</td>
<td>QWEST</td>
<td>R.W.26810</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ML 1904</td>
<td>0.4</td>
<td>42508</td>
<td></td>
<td>BLJI</td>
<td>AT&amp;T</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ML 1904</td>
<td>0.561</td>
<td>44742</td>
<td></td>
<td>BNJO</td>
<td>QWEST</td>
<td>R.W.31669</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ML 1904</td>
<td>0.6</td>
<td>52143</td>
<td></td>
<td>BXII</td>
<td>LEVEL 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ML 1904</td>
<td>0.66</td>
<td>27855</td>
<td></td>
<td>AWRQ</td>
<td>UP-RR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ML 1904</td>
<td>1</td>
<td>52658</td>
<td></td>
<td>BYEA</td>
<td>ENRON-CO</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ML 1904</td>
<td>1</td>
<td>53092</td>
<td></td>
<td>BYWD</td>
<td>BROADWNG</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ML 1904</td>
<td>1.08</td>
<td>53092</td>
<td></td>
<td>BYWE</td>
<td>BROADWNG</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ML 1904</td>
<td>1.08</td>
<td>52658</td>
<td></td>
<td>BYEB</td>
<td>ENRON-CO</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ML 1904</td>
<td>1.16</td>
<td>45504</td>
<td></td>
<td>BOCT</td>
<td>MNT-FUEL</td>
<td>GAST</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ML 1904</td>
<td>1.51</td>
<td>24444</td>
<td></td>
<td>ARHN</td>
<td>RH0-POUL</td>
<td>WATT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ML 1904</td>
<td>2</td>
<td>44742</td>
<td></td>
<td>BNJP</td>
<td>QWEST</td>
<td>R.W.31669</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ML 1904</td>
<td>2</td>
<td>45504</td>
<td></td>
<td>BOCU</td>
<td>MNT-FUEL</td>
<td>GAST</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ML 1904</td>
<td>3</td>
<td>45504</td>
<td></td>
<td>BOCV</td>
<td>MNT-FUEL</td>
<td>GAST</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ML 1904</td>
<td>3.1</td>
<td>51441</td>
<td></td>
<td>BWY</td>
<td>PRVT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ML 1904</td>
<td>3.606</td>
<td>44742</td>
<td></td>
<td>BNJQ</td>
<td>QWEST</td>
<td>R.W.31669</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ML 1904</td>
<td>3.9</td>
<td>50355</td>
<td></td>
<td>BUZC</td>
<td>WYDOT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ML 1904</td>
<td>4</td>
<td>6315</td>
<td></td>
<td>BAKZ</td>
<td>QWEST</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ML 1904</td>
<td>4.41</td>
<td>46361</td>
<td></td>
<td>BPEP</td>
<td>MNT-FUEL</td>
<td>GAST</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ML 1904</td>
<td>4.46</td>
<td>25806</td>
<td></td>
<td>ARAD</td>
<td>QWEST</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ML 1904</td>
<td>4.525</td>
<td>61910</td>
<td></td>
<td>CMOE</td>
<td>PRVT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ML 1904</td>
<td>4.662</td>
<td>26712</td>
<td></td>
<td>AQWJ</td>
<td>QWEST</td>
<td>R.W.14058</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2016 AASHTO ROWUOC & NAHBA Conference
Additional Stipulations

The following stipulations which have been checked are applicable to the attached license:

1. The main forces at ________________ shall be notified before any work is begun and after work is completed.
2. All personnel working within state highway right-of-ways shall wear high-visibility safety apparel meeting Performance Class 3 specifications of the current ANSI/ISEA 107 standard.
3. All damage areas are to be returned to their original condition. All surface debris, boulders, etc., as a result of construction activity are to be removed from the right-of-way.
4. The licensee shall be responsible for any damage to the highway and its appurtenances as a result of this installation at any time such damage occurs.
5. The minimum clearance for any conductor or cable below state and federal highway right-of-way shall be 25 feet or an approved design.
6. The minimum depth of placement is to be ____ inches below the bottom of ditches.
7. All pedestrian, walks, etc., are to be installed at the right-of-way line, or as agreed to or approved.
8. Subsequent leakage of any damage breached by this installation which results in damage to the roadway and/or appurtenances or results in damage problems on the roadway, are the responsibility of the licensee, and will be promptly repaired or corrected as approved by WYDOT.
9. Crossing of the roadway is to be made by jacking, dry boring, or similar from the roadway edge.
10. All gas pipeline facilities within the highway right-of-way shall be designed for Class 3 locations per 49 CFR: TRANSPORTATION, Section 192 (Delegations to the Federal Highway Administrator). Part 192, HAZARDOUS MATERIAL REGULATION BOARD, Transmitter of Natural and Other Gas by Pipeline: Minimum Safety Standards.
11. Casing type and method of installation shall be reviewed by the D.M.E. prior to installation and shall be capable of withstanding the traffic and roadbed loads. The casing or conduit shall be installed in a manner to prevent the formation of a waterway under the highway, and, if used, shall run right-of-way to right-of-way, or as determined to be necessary by the WYDOT office on the condition.
12. Where crossing ends are being installed they should be suitably installed to protect the integrity of the carrier.
13. An open trench method of installation is approved.
14. The trench shall be backfilled and compacted daily, no open trenching is to be left overnight.
15. The fill is to be compacted to 95 percent density as shown on the approved diagram and surveyed as indicated. Temporary surfacing may be installed as needed but must be brought up to standard upon completion of the work.
16. Paved surfaces in paved travel lanes must be surfaced within three days.
17. All anchors and pole locations must be installed outside the highway right-of-way.
18. A letter specifies the name and location of an individual who will be representing the licensee on the job and is capable of assisting in making immediate changes in traffic control or work operations to bring them into compliance with the terms of the license.
19. No materials or equipment will be stockpiled or parked (within 10 ft. of the traveled way).
20. No work will be conducted from the roadway surface.
WYDOT Permitting

License Tech

• Reviews the permit
  • Complies with State Law/UAR
  • On-site review with utility company (if needed)
  • Plan/Staking Sheet contains all requirements
  • Lat/long coordinates supplied correctly
  • Provides Utility Database Report (if requested)
  • Adds additional stipulations
• Obtains approval from other parties
• Recommends to approve or deny the permit
WYDOT Permitting

Construction Engineer

- Reviews the permit
  - Determines if any future construction projects will be affected by this project.
  - Determines any problems with construction of the facility as proposed
- Recommends to approve or deny the permit
WYDOT Permitting

Maintenance Foreman

• Reviews the permit
  • Conducts site visit
  • Determines impacts to DOT’s use of the R/W
• Recommends to approve or deny the permit
• Meets with construction personnel prior to the facility being placed in the R/W
• Oversees the construction project
  • Company pays for full-time inspector if needed
• Final review of site area
  • Marker poles placed every 1000 ft or line of site
WYDOT Permitting

District Maintenance Engineer

- Signs the permit
- Holds any progress meetings needed
WYDOT Permitting

Headquarters – Utility Section

• Reviews the signed permit
  • Asks for clarification on any missing or wrong information
• Assigns a number to the agreement
• Scans the agreement and saves it in the directory
• Sends the agreement to the Records Department
• Adds the permit data into the database
• Monitors As-Built submittals
  • Ensures all submittals are added to both the electronic and hard copy files.
Future Practices

• Future permits will utilize an online permitting software
  • Study of utility processes has been completed
  • Upper level management is on board
  • Sent out RFP once – cost range was too large
    • RFP needs to be modified
• GIS map will show location of new facility as well as existing facilities
  • Eventually, upcoming projects will also be shown on the GIS map
In other words ...
Non-licensed and inaccurately depicted facilities cost everyone money!
THANK YOU!

Keri Bohlmann, P.E.
Utilities & Design Software Support Supervisor
Wyoming Department of Transportation
Highway Development -- Utilities Section
5300 Bishop Blvd
Cheyenne WY 82009-3340
(307) 777-4133
keri.bohlmann@wyo.gov