

From: [Lisa Weygandt](#)
To: [Kim Scheafer](#)
Subject: Letter to Canby City Council
Date: Tuesday, January 17, 2017 1:47:07 PM

January 16th, 2017

To the members of the Canby City Council,

My name is Lisa Weygandt. I reside at 24401 S Mulino Rd, Canby, Or. This correspondence is regarding my inclusion as a benefitted property owner of record in the SE 13th Avenue Advance Finance District.

Unfortunately, I'm unable to attend the scheduled public hearing for January 18th, 2017. However, I would like to submit this letter into record in my absence.

I don't have an objection to the formation of the AFD, however, in that this improvement is being initiated by the City of Canby, what you assess as the interest rate on the cost allocations need to be equitable and closely match the established US government inflation rate. As of Nov. 2016 that rate was 1.69%.

I would ask that, in your deliberations, you consider the broader benefit this sewer line extension/pump station will have to the City, and not exclusively the properties included in this AFD.

With that in mind, and your ability to determine the interest rate on a case to case basis, I would ask that you keep such rate close to that of current US inflation rates.

Thank you,
Lisa Weygandt

January 18, 2017

Kathleen Myron
PO Box 675
Canby, OR 97013

City Council
City of Canby, Oregon

Re: SE 13th Avenue Advance Financing District
S. Mulino Rd. (Buzz Weygandt property) Pumping Station Wet Well facility

Dear Council Members,

Thank you for this opportunity to express my concerns regarding the siting of this facility which I hope will be acted upon.

Site a Seasonal Wetland

I believe the site north of the Oregon Pacific Railroad (OPR) embankment and tracks near the stop sign on S. Mulino Rd. on the Weygandt property (as identified to me by Curt McLeod in a phone conversation last year) to be a seasonal wetland. I shared my concerns with Mr. McLeod at that time, but was not reassured that this facility would pose no threat of pollution (nutrient-loading to the associated small stream, a tributary of the Molalla River which is the habitat to anadromous salmonids, some under protection of the Endangered Species Act, I believe) should a sewage leak or overflow, or accident of any kind occur.

While I do not know that the site has been formally classified as a wetland, I am aware from my familiarity with the site over the course of many decades (since the late 1940s when my grandparents purchased a farm approximately 1.5 miles east on S. Mulino Rd.) that the site meets a number of the identifying characteristics listed by the Department of State Lands on the "Wetlands in Oregon" site section "How to identify wetlands." Among these identifiers are the following:

1. Depressions where water pools for a week or more in the spring.
2. Soggy ground in the spring inferred from the presence of standing water in the spring.

3. Many clumps of plants that grow in wetlands. The site is a camas meadow (*Camassia quamash*, *C. leichtlinii* identified in Hitchcock, C. Leo and Arthur Cronquist's **Flora of the Pacific Northwest**, UW Press, Seattle, 1981). These lilies are found in "...moist areas, often where dry by late spring..." (*C. quamash*) or in "...meadows, prairies, and hillsides where moist, at least early in spring;..." (*C. leichtlinii*). The beautiful blue flowers provide a lovely contrast to the greens of the associated wetland plants. These distinctive plants which have been an important food among the Native Americans of the West are also found along banks of the associated stream under the native Oregon white oaks (*Quercus garryana*) south of SE 13th Avenue on the former Elwood Faist property.

4. The area is avoided in the spring by heavy equipment to avoid becoming bogged down. Observations over the years appear to support this identifier.

As I recall, the site also includes native Oregon white oak and Oregon ash (*Fraxinus latifolia*) trees. Franklin and Dyrness describe the Oregon ash as "...a very characteristic species on seasonally flooded and swampy habitats in the interior valleys [of Oregon]" and also note that "several other tree species are characteristic of the floodplain, riparian, or gallery forests." Among them are the Oregon white oak, bigleaf maple (*Acer macrophyllum*) and red alder (*Alnus rubra*); camas is also noted as associated with these communities occupying "small poorly drained basins." The authors further note that these communities "often have a rich diversity of species." (Franklin, Jerry F. and C.T. Dyrness. Natural Vegetation of Oregon and Washington. USDA Forest Service General Technical Report PNW-8. Portland, OR 1973.

I have cited this reference to support my assessment of this site as one of the small remaining, functioning wetland sites in Oregon which contributes to the health of the Molalla River from which Canby draws its drinking water.

Wetlands function to filter surface waters, moderate their overland flow velocity during seasonal heavy rainstorms, and provide for that water to infiltrate the surface soils, recharging ground water resources which are known to contribute late season flows to associated downslope streams and rivers such as the Molalla River tributary, the stream which flows through the culverts under the OPR embankment and SE 13th Avenue just west of the intersection with S. Mulino Rd.

Such small wetlands with their associated riparian zones and streams have been and are being lost to agricultural practices and developments which fail to recognize the inherent values of the streams, riparian zones, and wetlands. One of the values, noted in a DSL section *"Just the Facts...About Wetland Functions and Assessment"* is "the ecological processes in wetlands, such as nitrogen cycling." Another value is "the societal importance attached to those functions, such as water quality improvement." "In Oregon, about 38% of our wetlands have been converted to other uses." Is it any surprise that over the past 3 years, Canby's drinking water quality has been experienced and described as putrid, foul-smelling, and unpotable? The cumulative effects of the loss of natural filtration processes combined with high nutrient loading from agricultural lands where riparian zones and wetlands have been converted to farmed lands, where streams have been ditched, and the allowed dumping of Molalla sewage water (treated, but still rich in algae-growing nutrients) seem apparent to this longtime Canby resident. Every small natural water-filtering and water-storing site is invaluable as a component to maintain quality potable water. The value of these areas for migratory birds and pollinating insects cannot be underestimated.

A most recent drive past the site clearly showed that water has pooled to some depth at the site, and that the site does not appear to be cleared of vegetation.

The fact that the authorizing process is continuing with apparent disregard for the inherent values of this seasonal wetland is what concerns me. I do understand that someone unfamiliar with the location, perhaps unfamiliar with identifying native plants, and uninformed as to the values of such areas. So, I have to ask, was a wetland scientist familiar with native plants and seasonal weather conditions consulted? If yes, when were the surveys conducted? Were the soils on-site identified? Wetland soils are distinctive. As per the DLS wetland questionnaire, was "an 18-inch deep hole [dug] and ...a clump of soil [removed]? Was "there rusty red "veins" on a gray-background" present?

DSL states that "A "yes" answer to any of the questions ... may indicate that the area is a wetland." I can document several "yes" answers simply by driving by. With 38% of Oregon's wetlands documented as converted prior to the DLS 2004 publication coupled with the values inherent, I believe this sewage pumping station wet well is planned for the wrong location. I am not reassured that the facility would be incapable of an unplanned polluting discharge such has occurred

with sewage facility overflows at other locations. Our streams and rivers are not sewer pipes. I understand no treatment is planned prior to discharging sewage from all the properties east of the current termination point at Sequoia Parkway. The plans for this area include industrial and residential development, I understand. What volume of sewage discharge is contemplated? What level of earthquake are the pipes and facility specifically designed to withstand without failure?

I am aware it is difficult to divert a speeding train onto an unplanned track, but I had hoped that diversion would have happened following my discussion last year with Mr. McLeod. Canby is not giving due consideration to the environment in planning to site this project in an active, functioning native wetland.

While I am not a licensed or degreed wetland scientist, I am a dedicated student of the natural world's features, inhabitants, movements, and weather. As such, I have the above-noted serious concerns about destroying yet another functioning wetland and its associated plant species.

It is my hope that you take my concerns and the identified values and functions of this wetland to heart and reconsider this siting. Perhaps move it from the SE corner of the Weygandt property towards the NE corner nearer the intersection of S. Township and S. Mulino roads, away from its direct association with the adjacent Molalla River tributary, sparing this camas wetland from destruction.

Thank you for your consideration.

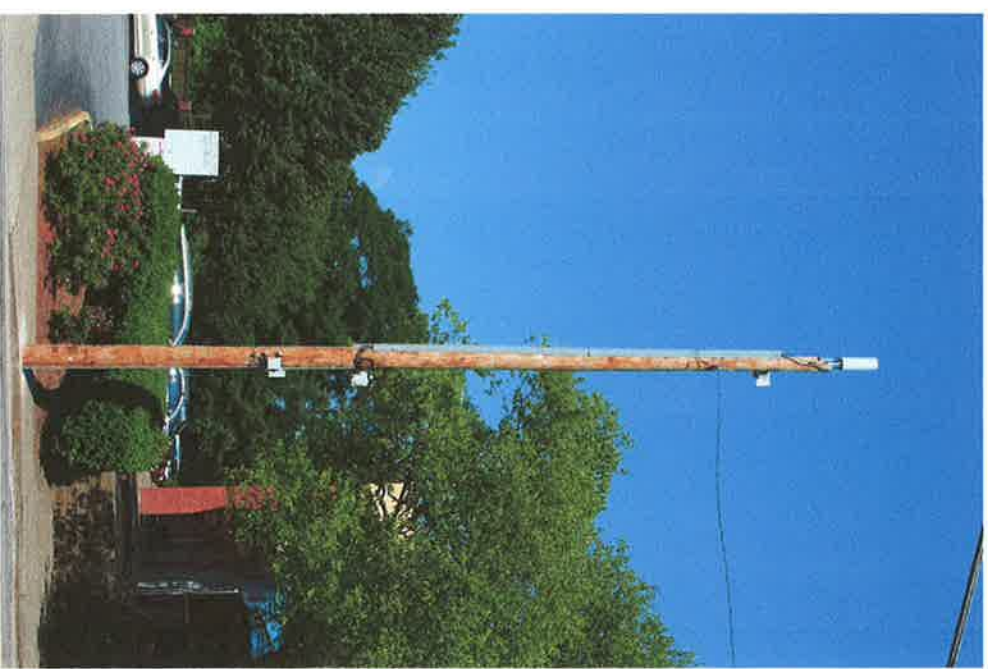
Sincerely,

Kathleen Myron
503.266.1263

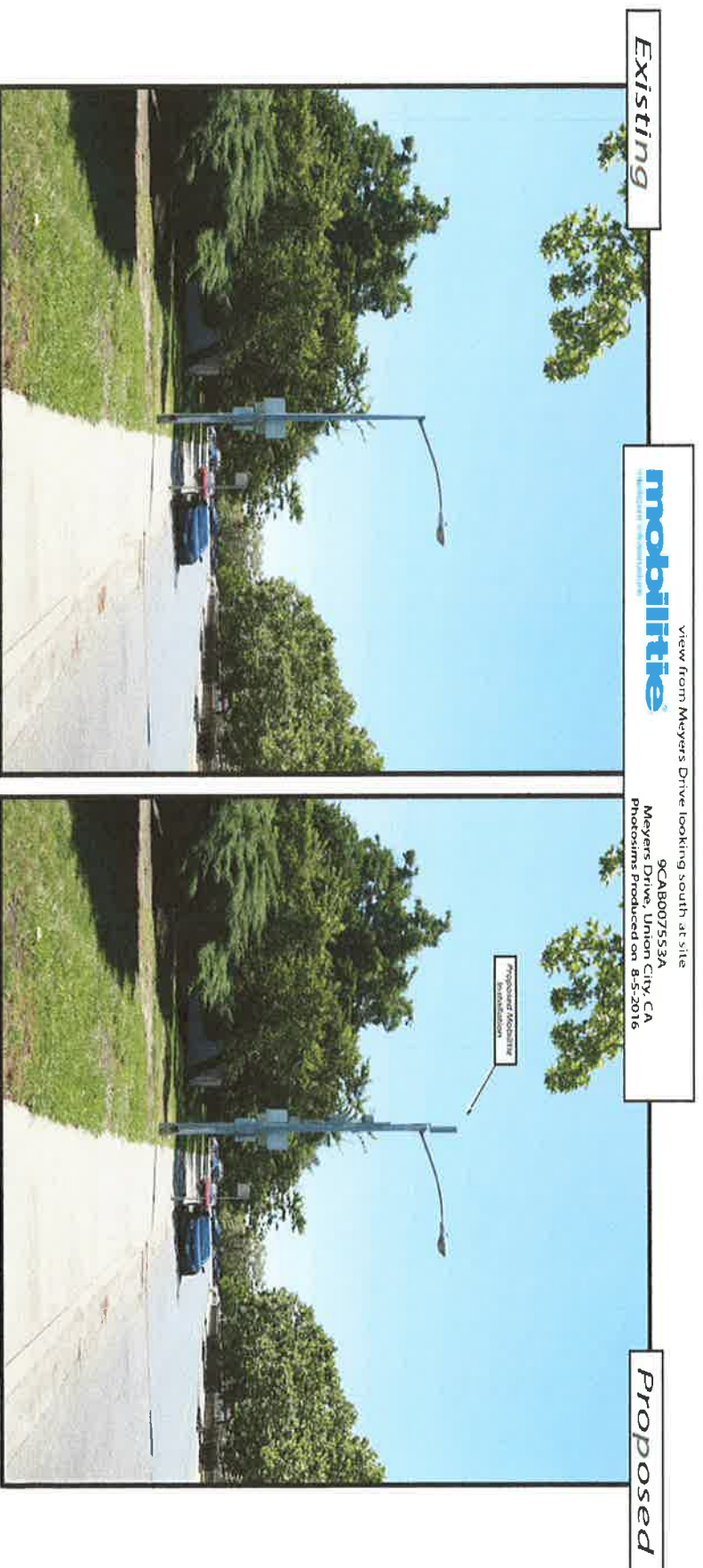
Example:



Our Solution - Small cell installations

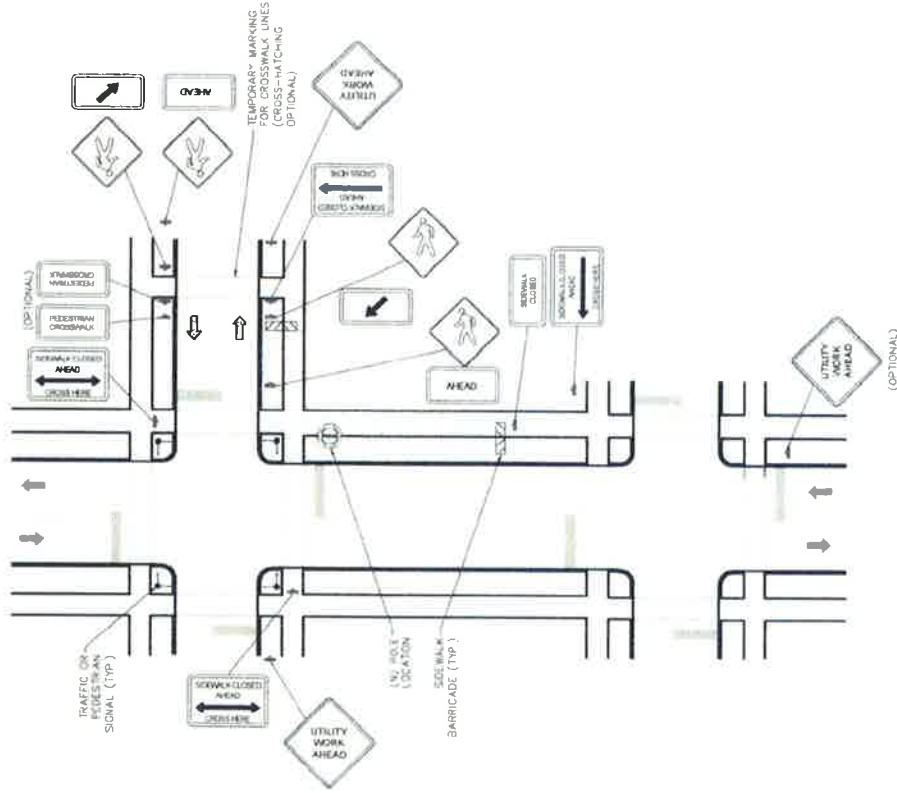


Example:



TRAFFIC CONTROL GENERAL NOTES

1. ALL TEMPORARY TRAFFIC CONTROL, SIGNAGE, LAYOUTS AND PROCEDURES SHALL COMPLY WITH LOCAL JURISDICTIONAL REQUIREMENTS AND MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION, WHICHEVER IS MORE STRINGENT.
2. PRIOR TO ANY ROAD CONSTRUCTION TRAFFIC CONTROL SIGNS AND DEVICES SHALL BE IN PLACE.
3. TRAFFIC CONTROL DEVICES FOR LANE CLOSURES INCLUDING SIGNS, CONES, BARRICADES, ETC. SHALL BE PLACED AS SHOWN ON PLANS. SIGNS SHALL NOT BE PLACED WITHOUT ACTUAL LANE CLOSURES AND SHALL BE IMMEDIATELY REMOVED UPON REMOVAL OF THE CLOSURES.
4. SELECTION, PLACEMENT, MAINTENANCE, AND PROTECTION OF TRAFFIC, PEDESTRIANS, AND WORKERS SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), PART 4, "TEMPORARY TRAFFIC CONTROL DEVICES." ALL TRAFFIC CONTROL DEVICES SHALL BE OTHERWISE NOTED IN THE PLANS AND SPECIFICATION, AND SHALL BE APPROVED BY THE APPROPRIATE HIGHWAY AUTHORITY HAVING JURISDICTION.
5. ADVANCE WARNING SIGNS, DISTANCES, AND TAPE LENGTHS MAY BE EXTENDED TO ADJUST FOR REDUCED VISIBILITY DUE TO HORIZONTAL AND VERTICAL CURVATURE OF THE ROADWAY AND FOR ACTUAL TRAFFIC SPEEDS.
6. IF IN EXCESS OF POSTED SPEED LIMITS.
7. TAPE LENGTHS SHALL BE LOCATED TO MAXIMIZE THE USABILITY OF THEIR TOTAL LENGTH.
8. CONFLICTING OR NON-OPERATING SIGNAL INDICATIONS ON THE (E) TRAFFIC SIGNAL SYSTEMS SHALL BE ENDED OR COVERED.
9. ALL (E) ROAD SIGNS, PAVEMENT MARKINGS AND/OR PLACABLE PAVEMENT REFLECTORS WHICH CONFLICT WITH THE (N) TRAFFIC CONTROL PLAN SHALL BE REMOVED OR COVERED. ALL TRAFFIC CONTROL DEVICES SHALL BE RESTORED TO MATCH PRE CONSTRUCTION CONDITION AFTER COMPLETION OF WORK.
10. CONTRACTOR SHALL CONTACT LOCAL AUTHORITY HAVING HIGHWAY JURISDICTION AND PROVIDE ADDITIONAL PLACEMENT OR MAINTENANCE, AS REQUIRED.
11. ALL EXCAVATED AREAS WITHIN OR ADJACENT TO THE ROADWAY SHALL BE BACKFILLED AND REPAVED TO A MINIMUM OF 1/2" SLIP, PRIOR TO END OF WORK. ALL EXCAVATED AREAS SHALL BE PROTECTED BY BARRICADES AND CONSTRUCTION BARRIERS SET TEMPORARILY IN PLACE TO SHIELD VEHICLES AND PEDESTRIAN TRAFFIC.
12. WHERE DICTATED BY LOCAL CONDITIONS, THE CONTRACTOR SHALL MAKE PROVISIONS FOR MAINTAINING PLUS-MAN AND WORKER CROSSING REQUIREMENTS IN ACCORDANCE WITH ALL APPLICABLE TOOLS AND OSHA REQUIREMENTS.
13. CONSTRUCTION ZONE SPEED LIMIT SHALL BE DETERMINED FROM POSTED LIMITS SHALL BE IN ACCORDANCE WITH MUTCD AND SHALL BE DETERMINED BY THE AUTHORITY HAVING JURISDICTION.
14. THERE SHALL BE NO WORKERS, EQUIPMENT, OR OTHER VEHICLES IN THE BUFFER SPACE OF THE ROAD AHEAD SPACE.
15. DRIVEWAYS AND/OR SIDE SHELTERS ENLIVENING THE ROADWAY AFTER THE FIRST ADVANCE WARNING SIGN SHALL BE PROVIDED WITH AT LEAST ONE "AHEAD" SIGN (ROAD WORK AHEAD) AS A MINIMUM.
16. SIGNS MAY BE SUBSTITUTED FOR DRUMS AND INSALLED UPON THE APPROVAL OF THE AUTHORITY HAVING JURISDICTION PROVIDED THEY COMPLY WITH MUTCD.
17. THE SPACING BETWEEN CONES, TRIANGLE MARKERS, VERICAL PANELS, DRUMS AND BARRICADES SHOULD NOT EXCEED A DISTANCE IN FEET EQUAL TO 1.0 TIMES THE SPEED LIMIT IN MPH WHEN USED FOR TAPER, CANCELLATION AND A DISTANCE IN FEET EQUAL TO 2.0 TIMES THE SPEED LIMIT IN MPH WHEN USED FOR WARNING CANCELLATION.
18. WHEN CANCELLATION DEVICES HAVE THE POTENTIAL OF LEADING VEHICLES INTO THE CANCELLATION DISTANCE, THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 2.0 TIMES THE SPEED LIMIT IN MPH BEYOND THE DOWNSTREAM END OF THE TRANSITION AREA.
19. TAPE LENGTHS ARE CALCULATED AS FOLLOWS:
 $L = WS/60$ (40 MPH AND HIGHER) OR $L = WS/40$ (35 MPH AND LOWER)
 WHERE: L = TAPE LENGTH (FEET) W = TRAFFIC SPEED (MPH)



TYPICAL PEDESTRIAN / WORKER SAFETY PLAN

SCALE: NOT TO SCALE

1

mobile
SOLUTIONS

PROJECT NO: **SC08009468**
 DRAWN BY: **AL**
 CHECKED BY: **JF**

DATE: **11/11/14**
 DATE: **11/11/14**
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DATE: **11/11/14**

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PRELIMINARY

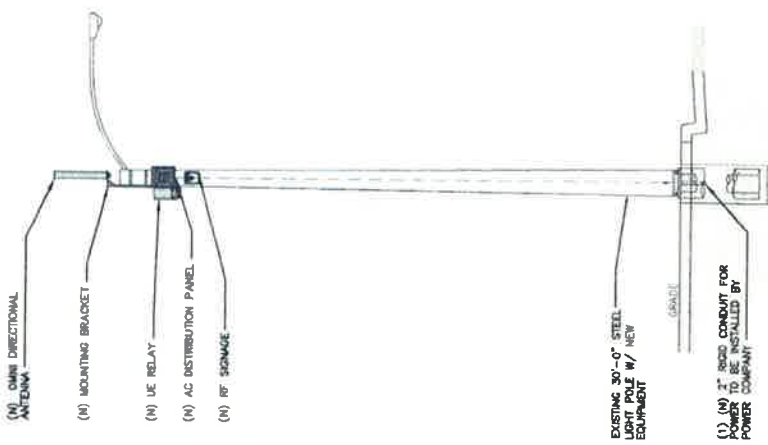
SC08009468
 GRANTS PASS OR 1726
 EXISTING STEEL LIGHT POLE

PEDESTRIAN TRAFFIC
 CONTROL PLAN

PROJECT NUMBER
TC-2

NOTE: CABLEING DIAGRAM IS FOR CLARITY OF CABLE ROUTE AND TERMINATION ONLY. CONTRACTOR SHALL INSTALL CABLES WITH MINIMAL VERTICAL BENDING. MINIMUM BENDING RADIUS SHALL BE 18" FOR ALL CABLES. ALL CABLES SHALL BE ELEVATION DRAWING FOR CLARITY AND ANTENNA LOCATIONS.

2. PROJECT SCOPE OF WORK DOES NOT INCLUDE A STRUCTURAL ENGINEER'S REVIEW OF THIS POLE OR STRUCTURE. (N) EQUIPMENT SHALL BE INSTALLED ON STRUCTURE HAS THE CAPACITY TO ADEQUATELY SUPPORT THE EQUIPMENT. WHEN TO ANY OF THE INSTALLATION, THE STRUCTURE SHOULD BE REINFORCED. POLE OR STRUCTURE SHOULD BE REINFORCED.



- CABLEING NOTES:**
- A) WOOD, CONCRETE AND EXISTING METALLIC POLES SHALL BE PROTECTED FROM CABLES/CONDUCTORS EXCEPT GROUNDING CONDUCTOR MUST RUN IN RIGID GALVANIZED STEEL CONDUIT (RGS).
 - B) GROUNDING CONDUCTORS IN EXPOSED LOCATIONS MUST BE INSTALLED IN PVC CONDUIT FOR BACKHAUL AND MUST BE INSTALLED IN PVC CONDUIT FOR BACKHAUL AND ELECTRICAL SERVICE.
 - C) ABOVE 11'-0" ALL CABLES (POWER, ETHERNET, COAXIAL) MUST RUN IN PVC UTILITY POLE RISER.
 - D) ALL CABLES/CONDUCTORS MUST BE INSTALLED IMMEDIATELY ADJACENT TO THE EQUIPMENT. INSTALL CABLES IN THE UTILITY POLE RISER CREATING CABLE BENDS THAT DO NOT EXCEED 90° BENDING.
 - E) INSIDE THE UTILITY POLE RISER, UTILIZE 1" COAX BLOCKS WITH LAC SCREWS TO SUPPORT COAX, RADIO AND MW POWER, RF COAX AND ETHERNET CABLES TO PREVENT CABLES FROM BEING SERVED AND ON WHEN 12" OF THE EQUIPMENT IS BEING SERVED.
 - F) FOR UNDERGROUND RFP/PHIBIC BACKHAUL ROUTE ETHERNET CABLE IN CONDUIT UP THE POLE AND ENTER THE UTILITY POLE RISER. EXPOSED END OF ETHERNET CABLE SHALL BE TERMINATED ON THE UTILITY POLE RISER.
 - G) BY APPROVAL, SELECT CABLES FOR CONDUIT LENGTHS NOT TO EXCEED 16' TO EXTEND THE ELECTRICAL SERVICE CONDUIT TO THE AC DISTRIBUTION PANEL. UNDERGROUND RFP/PHIBIC DISCONNECT ON POLE.
 - H) (N) METALLIC POLES WITH SUITABLE HAND HOLES SUCH THAT HAND HOLES EXIST AT ALL EQUIPMENT LOCATIONS.
 - I) (N) WITH CLIENT APPROVAL, IN SELECT CASES TO FACILITATE IMPROVED APPEARANCE, 1" COAXIAL CABLES MAY BE "SUPERFLEX" IN LIEU OF LDF-4.
 - J) WHERE POSSIBLE, INSTALL POLE BASE SUCH THAT THE ELECTRICAL FEED AND BACKHAUL (IF UNDERGROUND) DISCONNECTING MEANS SEPARATE FROM THE AC DISTRIBUTION BOX. IF REQUIRED BY JURISDICTION, OR UTILITY WITH APPROVAL IN SELECT CASES, DISCONNECT MEANS SHALL BE CONDUIT. DISCONNECT MEANS SHALL BE CONDUIT. DISCONNECT MEANS SHALL BE CONDUIT. DISCONNECT MEANS SHALL BE CONDUIT.

PLUMBING DIAGRAM
SCALE: 3/16" = 1'-0" (30" = 1'-0" ON 22'-34" SHEET)



PROJECT NO: 1008000468
DRAWN BY: AL
CHECKED BY: JF

1. 10/17/20
2. 10/17/20
3. 10/17/20

IT IS A POLICY OF THE CITY OF LOS ANGELES THAT ALL PROJECTS BEING CONSIDERED FOR AWARD BE OPEN TO ALL QUALIFIED BIDDERS. IT IS THE POLICY OF THE CITY OF LOS ANGELES THAT ALL PROJECTS BEING CONSIDERED FOR AWARD BE OPEN TO ALL QUALIFIED BIDDERS.

PRELIMINARY

1008000468
GRANTS/ASLS OR 97228
EXISTING STEEL LIGHT POLE

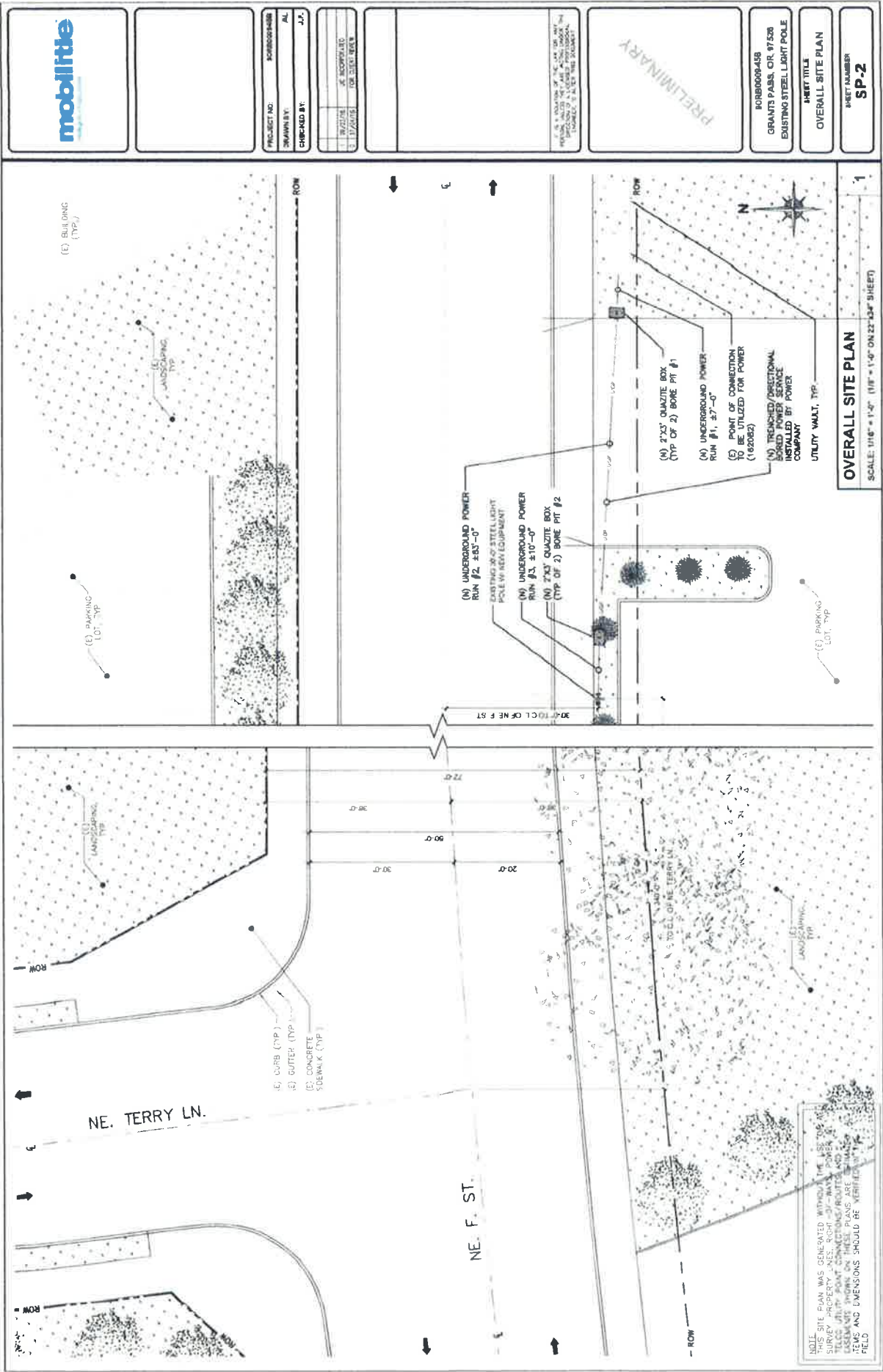
SHEET TITLE
PLUMBING & RISER DIAGRAM

SHEET NUMBER
PL-1

EQUIPMENT CHART
SCALE: NOT TO SCALE

QUANTITY	DESCRIPTION	CABLE LENGTH	DIMENSIONS (HxWxD)	WEIGHT
1	ALPHA WIRELESS 4W34772-S OMNI-DIRECTIONAL ANTENNA	180	29.5" X 4.5" X 7.9" X 1.3"	8.8 LBS
1	ARSPAN 18450-UE RELAY ANTENNA	180	29.5" X 4.5" X 7.9" X 1.3"	8.8 LBS
1	TALLYSHAM 18450-UE RELAY ANTENNA	180	29.5" X 4.5" X 7.9" X 1.3"	8.8 LBS
1	ARSPAN 41-1000 RELAY RADIO HEAD	180	18.9" X 9.6" X 7.48"	13.14 LBS
1	RAYCAP RSING-3111-P120 AC DISTRIBUTION PANEL	180	13" X 11.4" X 4.4"	4.5 LBS

NOT USED
SCALE: NOT TO SCALE



PROJECT NO.	2020000000
DRAWN BY:	AL
CHECKED BY:	J.J.

DATE	11/22/20
BY	J.J.
FOR	2020000000

DATE	11/22/20
BY	J.J.
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Do Shilow



intelligent infrastructure

SITE ID-CANDIDATE LETTER/CASCADE ID-CANDIDATE LETTER:

9ORB000945B/PO90XSA64B

LATITUDE/LONGITUDE:

42.433742/-123.303235

CROSS STREET:

NE. F. ST. & NE. TERRY LN.

CITY, STATE, ZIP:

GRANTS PASS, OR, 97526

11"X17" PLOT WILL BE HALF SCALE UNLESS OTHERWISE NOTED



IF YOU DIG IN ANY STATE
DIAL 811 FOR THE LOCAL
"ONE CALL CENTER" -
IT'S THE LAW

THE USER KNOWS BEST AND FOR THE CONTRACTOR
CONVEYANCE ONLY. THESE ARE NOT TO BE USED FOR
CONVEYANCE OF ANY OTHER PROPERTY OR RIGHTS.
THE USER KNOWS BEST AND FOR THE CONTRACTOR
CONVEYANCE ONLY. THESE ARE NOT TO BE USED FOR
CONVEYANCE OF ANY OTHER PROPERTY OR RIGHTS.
THE USER KNOWS BEST AND FOR THE CONTRACTOR
CONVEYANCE ONLY. THESE ARE NOT TO BE USED FOR
CONVEYANCE OF ANY OTHER PROPERTY OR RIGHTS.

GENERAL NOTES

"THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A
"TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE
MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT
ENVIRONMENTAL IMPACTS. NO SANITARY SEWER
SEWERAGE SYSTEM OR TRASH DISPOSAL IS REQUIRED AND
NO COMMERCIAL SIGNAGE IS IN

SITE INFORMATION

SITE ID	9ORB000945B
CASCADE ID	PO90XSA64B
LATITUDE	42.433742
LONGITUDE	-123.303235
CROSS STREET	NE. F. ST. & NE. TERRY LN.
CITY, STATE, ZIP	GRANTS PASS, OR, 97526
COUNTY	JOSEPHINE COUNTY
JURISDICTION	GRANTS PASS
PROPERTY OWNER	PUBLIC RIGHT-OF-WAY
APPLICANT	MOBILITE LLC 1572 N. BATAVIA ST., SUITE 100 GRANTS PASS, OR 97526 APPLICANT: COLLEEN DEHAZAR PHONE: 503-388-2851 EMAIL: COLLEEN@MOBILITE.COM

ENGINEER

JOSE FRAS
1572 N. BATAVIA ST., SUITE 100
GRANTS PASS, OR 97526
PROJECT NUMBER: 9ORB000945B

DO NOT SCALE DRAWINGS

CONTRACTORS SHALL VERIFY ALL PLANS, (E) DIMENSIONS & FIELD
CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE
ENGINEER OF ANY DISCREPANCIES. CONTRACTORS SHALL BE RESPONSIBLE FOR
PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME

LOCATION MAPS

VICINITY MAP



REGIONAL MAP



PROJECT DESCRIPTION

END USER PROPOSES TO INSTALL EQUIPMENT ON AN EXISTING
STEEL POLE WITHIN AN EXISTING RIGHT-OF-WAY
THE SCOPE WILL CONSIST OF THE FOLLOWING
- INSTALL PROPOSED BROWHAUL TRANSPORT EQUIPMENT ON AN
EXISTING STEEL LIGHT POLE

CODES

2012 INTERNATIONAL BUILDING CODE
2014 NATIONAL ELECTRICAL CODE
TA/EA-222-G-2 OR LATEST EDITION
LOCAL BUILDING/PLANNING CODE

DRAWING INDEX

SHEET NO.	TITLE SHEET
TA-1	GENERAL NOTES
TA-2	GENERAL NOTES
TA-3	GENERAL NOTES
SP-1	EXHIBIT PHOTO & SITE PLAN
SP-2	EXHIBIT SITE PLAN
EV-1	ELEVATIONS
EV-2	ELEVATIONS
PL-1	PLUMBING & REEP DIAGRAM
EQ-1	EQUIPMENT DETAILS
EQ-2	EQUIPMENT DETAILS
EX-1	EXCAVATION DETAILS
E-1	ELECTRICAL
G-1	GROUNDING
TC-1	VEHICULAR TRAFFIC CONTROL PLAN
TC-2	PEDESTRIAN TRAFFIC CONTROL PLAN



PROJECT NO: 9ORB000945B
DRAWN BY: AL
CHECKED BY: JF

DATE: 10/27/24
DATE: 10/27/24
DATE: 10/27/24

THIS IS A PRELIMINARY DRAWING. IT IS NOT TO BE USED FOR CONSTRUCTION. IT IS SUBJECT TO CHANGE WITHOUT NOTICE. IT IS THE USER'S RESPONSIBILITY TO VERIFY THE ACCURACY OF THE INFORMATION PROVIDED IN THIS DOCUMENT.

PRELIMINARY

9ORB000945B
GRANTS PASS, OR, 97526
EXISTING STEEL LIGHT POLE

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1



PROJECT NO: 808000948
DRAWN BY: AL
CHECKED BY: JS

DATE: 08/27/11
DATE: 07/26/11
DATE: 07/26/11

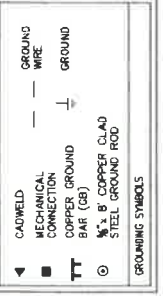
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PRELIMINARY

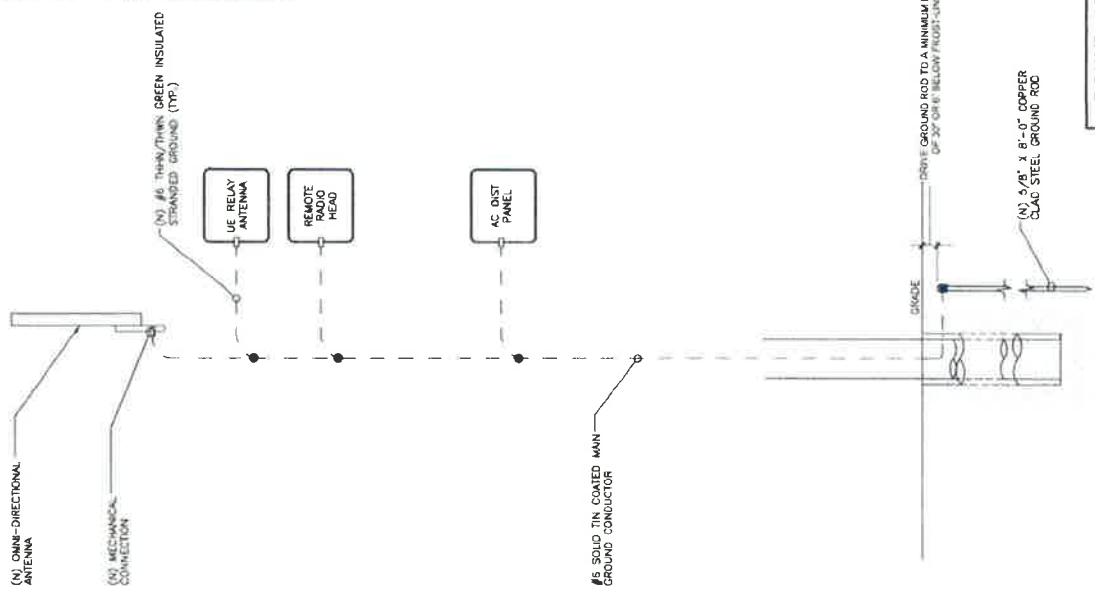
808000948
GRANT'S PASS, OR 97504
EXISTING STEEL LIGHT POLE

SHEET TITLE
GROUNDING DETAILS

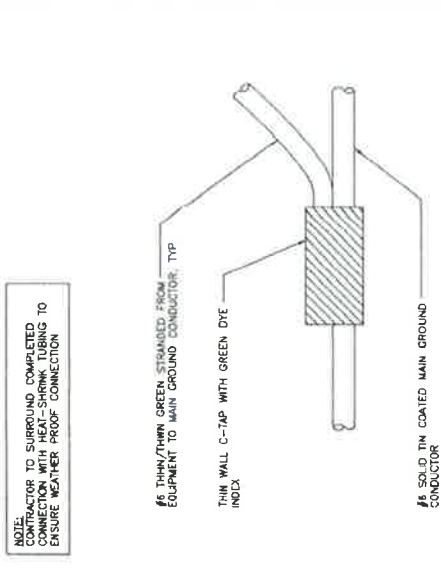
SHEET NUMBER
G-1



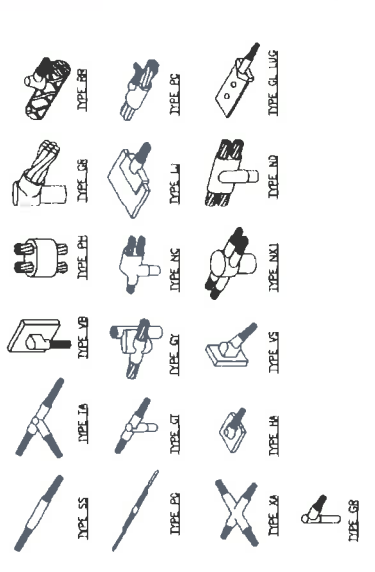
- NOTES
1. GROUNDING RISER FOR DIAGRAMMATIC PURPOSES ONLY. SEE DETAIL FOR EQUIPMENT AND ANTENNA LOCATIONS.
 2. ALL RGS TO BE GROUNDED AT BOTH ENDS USING GROUNDING BUSHINGS.
 3. GROUND WIRE BELOW 11' AGL TO BE RUN IN 1/2" SCHEDULE 40 PVC.



GROUNDING RISER DIAGRAM
SCALE: NOT TO SCALE



C-TAP DETAIL
SCALE: NOT TO SCALE



1. GROUNDING BONDS: ALL BONDS ARE TO BE MADE WITH #2 AWG STRANDED COPPER IN GREEN INSULATION (ATT-TP-76416 7, 6.7).
2. EXTERIOR UNIT BONDS: ALL METALLIC OBJECTS SHALL BE BONDED TO THE GROUND ROD. (ATT-TP-76416 7, 12.5)
3. GROUND ROD: UL LISTED COPPER CLAD STEEL GROUND ROD WITH MINIMUM DIAMETER OF 5/8" (ATT-TP-76416 7, 12.5). GROUND ROD SHALL BE DRIVEN TO A MINIMUM DEPTH OF 30" BELOW GRADE OR 6 INCHES BELOW FLOOD-ONE (ATT-TP-76416 1.4 / 2.2, 3, 10).

WELD CONNECTION DETAILS
SCALE: NOT TO SCALE

1 OMNI-DIRECTIONAL ANTENNA		2 POLE-TOP MOUNT		3 AC DISTRIBUTION PANEL		4 REMOTE RADIO HEAD		5 GPS ANTENNA		6 AIRSPAN POLE MOUNTING		7 STAINLESS STEEL BANDS		8 IN-LINE FUSE W/ FUSE HOLDER		9 NOT USED		10 NOT USED		11 NOT USED									
SCALE	N.T.S.	SCALE	N.T.S.	SCALE	N.T.S.	SCALE	N.T.S.	SCALE	N.T.S.	SCALE	N.T.S.	SCALE	N.T.S.	SCALE	N.T.S.	SCALE	N.T.S.	SCALE	N.T.S.	SCALE	N.T.S.								
<p>MANUFACTURER: ALPHA WIRELESS MODEL: AW0477-2 HEIGHT: 28.5 IN DIAMETER: 4.5 IN DEPTH: 7.16 IN WEIGHT: 11 LB</p>		<p>MANUFACTURER: ALPHA WIRELESS MODEL: AW0477-2 HEIGHT: 21.5 IN WIDTH: 7.16 IN DEPTH: 7.16 IN WEIGHT: 11 LB</p>		<p>MANUFACTURER: AIRSPAN MODEL: AH 13000 HEIGHT: 12 IN WIDTH: 12 IN DEPTH: 7.48 IN WEIGHT: 8.8 LB</p>		<p>MANUFACTURER: TALLYMANT MODEL: TMO100V00013 HEIGHT: 12 IN WIDTH: 12 IN DEPTH: 7.48 IN WEIGHT: 8.8 LB</p>		<p>MANUFACTURER: AIRSPAN MODEL: AH 13000 HEIGHT: 12 IN WIDTH: 12 IN DEPTH: 7.48 IN WEIGHT: 8.8 LB</p>		<p>MANUFACTURER: AIRSPAN MODEL: AH 13000 HEIGHT: 12 IN WIDTH: 12 IN DEPTH: 7.48 IN WEIGHT: 8.8 LB</p>		<p>MANUFACTURER: AIRSPAN MODEL: AH 13000 HEIGHT: 12 IN WIDTH: 12 IN DEPTH: 7.48 IN WEIGHT: 8.8 LB</p>		<p>MANUFACTURER: AIRSPAN MODEL: AH 13000 HEIGHT: 12 IN WIDTH: 12 IN DEPTH: 7.48 IN WEIGHT: 8.8 LB</p>		<p>MANUFACTURER: AIRSPAN MODEL: AH 13000 HEIGHT: 12 IN WIDTH: 12 IN DEPTH: 7.48 IN WEIGHT: 8.8 LB</p>		<p>MANUFACTURER: AIRSPAN MODEL: AH 13000 HEIGHT: 12 IN WIDTH: 12 IN DEPTH: 7.48 IN WEIGHT: 8.8 LB</p>		<p>MANUFACTURER: AIRSPAN MODEL: AH 13000 HEIGHT: 12 IN WIDTH: 12 IN DEPTH: 7.48 IN WEIGHT: 8.8 LB</p>		<p>MANUFACTURER: AIRSPAN MODEL: AH 13000 HEIGHT: 12 IN WIDTH: 12 IN DEPTH: 7.48 IN WEIGHT: 8.8 LB</p>		<p>MANUFACTURER: AIRSPAN MODEL: AH 13000 HEIGHT: 12 IN WIDTH: 12 IN DEPTH: 7.48 IN WEIGHT: 8.8 LB</p>		<p>MANUFACTURER: AIRSPAN MODEL: AH 13000 HEIGHT: 12 IN WIDTH: 12 IN DEPTH: 7.48 IN WEIGHT: 8.8 LB</p>		<p>MANUFACTURER: AIRSPAN MODEL: AH 13000 HEIGHT: 12 IN WIDTH: 12 IN DEPTH: 7.48 IN WEIGHT: 8.8 LB</p>	

TO 85% OF
VOTED

9. NEW GRADES NOT IN BUILDING AND DRIVEWAY IMPROVEMENT AREA TO BE ACHIEVED BY FILLING WITH APPROVED CLEAN FILL AND COMPACTED TO 95% OF STANDARD PROCTOR DENSITY.

- ALL FILL SHALL BE PLACED IN UNIFORM LIFTS. THE LIFT'S THICKNESS SHOULD NOT EXCEED THAT WHICH CAN BE PROPERLY COMPACTED THROUGHOUT ITS ENTIRE DEPTH WITH THE EQUIPMENT AVAILABLE.

- ANY FILLS PLACED ON (E) SLOPES THAT ARE STEEPER THAN 10 HORIZONTAL TO 1 VERTICAL SHALL BE PROPERLY BENCHED INTO THE (E) SLOPE AS DIRECTED BY A GEOTECHNICAL ENGINEER

12. CONTRACTOR SHALL CLEAN ENTIRE SITE AFTER CONSTRUCTION SUCH THAT NO DEBRIS, PAPER, TRASH, WEEDS, BRUSH, EXCESS FILL, OR ANY OTHER DEPOSITS WILL REMAIN. ALL MATERIALS COLLECTED DURING CLEANING OPERATIONS SHALL BE DISPOSED OF OFF-SITE BY THE GENERAL CONTRACTOR.

13. ALL TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH THE IMPROVEMENTS SHALL BE PROTECTED BY THE GENERAL CONTRACTOR

- 14 ALL SITE WORK SHALL BE CAREFULLY COORDINATED BY GENERAL CONTRACTOR WITH LOCAL UTILITY COMPANY, TELEPHONE COMPANY, AND ANY OTHER UTILITY COMPANIES HAVING JURISDICTION OVER THIS LOCATION.

1. ALL WORK PERFORMED SHALL BE DONE IN ACCORDANCE WITH ISSUED PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF FINES AND PROPER CLEAN UP FOR AREAS IN VIOLATION.

- CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION FOR PROTECTION OF ADJACENT PROPERTIES, ROADWAYS AND WATERWAYS. ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE MAINTAINED IN PLACE THROUGH FINAL JURISDICTIONAL INSPECTION & RELEASE OF SITE

- CONTRACTOR SHALL INSTALL/CONSTRUCT ALL NECESSARY SEDIMENT/SILT CONTROL, FENCING AND PROTECTIVE MEASURES AS REQUIRED BY THE LOCAL JURISDICTION WITHIN THE LIMITS OF SITE DISTURBANCE PRIOR TO CONSTRUCTION

- NO SEDIMENT SHALL BE ALLOWED TO EXIT THE PROPERTY. THE CONTRACTOR IS RESPONSIBLE FOR TAKING ADEQUATE MEASURES FOR CONTROLLING EROSION. ADDITIONAL SEDIMENT CONTROL. FENCING MAY BE REQUIRED IN ANY AREAS SUBJECT TO EROSION.

- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE ON THE SITE AT ALL TIMES WITH SILT AND EROSION CONTROL MEASURES MAINTAINED ON THE DOWNSTREAM SIDE OF SITE DRAINAGE. ANY DAMAGE TO ADJACENT PROPERTY AS A RESULT OF EROSION WILL BE CORRECTED AT THE CONTRACTORS' EXPENSE.

- 6 CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTIONS AND ANY
REPAIRS OF ALL SEDIMENT CONTROL MEASURES INCLUDING SEDIMENT REMOVAL
AS NECESSARY

- 7 CLEARING OF VEGETATION AND TREE REMOVAL SHALL BE ONLY AS PERMITTED AND BE HELD TO A MINIMUM ONLY TREES NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED.

- SEEDING AND MULCHING AND/OR SOODING OF THE SITE WILL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE PROJECT FACILITIES AFFECTING LAND DISTURBANCE

- CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY LOCAL, COUNTY AND STATE CODES AND ORDINANCES TO PROTECT EMBANKMENTS FROM SOIL LOSS AND TO PREVENT ACCUMULATION OF SOIL AND SILT IN STREAMS AND DRAINAGE PATHS LEAVING THE CONSTRUCTION AREA. THIS MAY INCLUDE, BUT IS NOT LIMITED TO SUCH MEASURES AS SILT FENCES, STRAW BALE SEDIMENT BARRIERS, AND CHECK DAMS

0. RIP RAP OF SIZES INDICATED SHALL CONSIST OF CLEAN, HARD, SOUND, DURABLE, UNIFORM IN QUALITY STONE FREE OF ANY DETRIMENTAL QUANTITY OF SOFT, FRIABLE, THIN, ELONGATED OR LAMINATED PIECES, DISINTEGRATED MATERIAL, ORGANIC MATTER, OIL, ALKALI, OR OTHER DELETERIOUS SUBSTANCES.

- 11 GC TO PLACE FILTER MATERIAL AT ALL CATCH BASINS ADJACENT TO
CONSTRUCTION SITE TO PREVENT SOLID WASTE CONTAMINATION FROM ENTERING
SEWER SYSTEM

ALL FINAL GRADED SLOPES SHALL BE A MAXIMUM OF 3 HORIZONTAL TO 1 VERTICAL UNLESS OTHERWISE NOTED

2. BACKFILL OF POLE SHALL BE PERFORMED IN ONE OF THREE OPTIONS:

- B SECONDARY CONCRETE (REQUIRES MOBILITY CM WRITTEN APPROVAL)
ALLOWABLE SOIL PRESSURE = 2,000 PSF (ASSUMED)

- BE REUSED FOR BACKFILL

- ALL EXCAVATIONS PREPARED FOR PLACEMENT OF CONCRETE SHALL BE OF UNDISTURBED SOILS, SUBSTANTIALLY HORIZONTAL AND FREE FROM ANY LOOSE, UNSUITABLE MATERIAL OR FROZEN SOILS, AND WITHOUT THE PRESENCE OF POUNDING WATER. DEWATERING FOR EXCESS GROUND WATER SHALL BE PROVIDED WHEN REQUIRED. COMPACTION OF SOILS UNDER CONCRETE PAD FOUNDATIONS SHALL NOT BE LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR THE SOIL IN ACCORDANCE WITH ASTM D1557.

- CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC OR UNSUITABLE MATERIAL. IF ADEQUATE BEARING CAPACITY IS NOT ACHIEVED AT THE DESIGNED EXCAVATION DEPTH, THE REPLACEMENT SOIL SHALL BE EXCAVATED TO ITS FULL DEPTH AND EITHER BE REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION SHALL BE FILLED WITH CONCRETE TO THE DESIGNED DEPTH. THE BOTTOM OF THE EXCAVATION AND SUB BASE USED TO STABILIZE THE BOTTOM OF THE EXCAVATION AND STONE SUB BASE MATERIAL, IF USED, SHALL NOT SUBSTITUTE FOR REQUIRED THICKNESS OF CONCRETE.

- ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL SUCH AS VEGETATION, TRASH, DEBRIS, AND SO FORTH PRIOR TO BACK FILLING. BACK FILL SHALL CONSIST OF APPROVED MATERIALS SUCH AS EARTH, LOAM, SANDY CLAY, SAND AND GRAVEL, OR SOFT SHALE, FREE FROM CLODS OR LARGE STONES OVER 2 1/2" MAX DIMENSIONS. ALL BACK FILL SHALL BE PLACED IN COMPACTED LAYERS.

- 2 ALL FILL MATERIALS AND FOUNDATION BACK FILL SHALL BE PLACED IN MAXIMUM 6" THICK LIFTS BEFORE COMPACTION EACH LIFT SHALL BE WETTED IF REQUIRED AND COMPACTED TO NOT LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR SOIL IN ACCORDANCE WITH ASTM D1557

- 3.3 NEWLY PLACED CONCRETE FOUNDATIONS SHALL CURE A MINIMUM OF 72 HRS PRIOR TO BACK FILLING

- 4 FINISHED GRADING SHALL BE SLOPED TO PROVIDE POSITIVE DRAINAGE AND PREVENT STANDING WATER. THE FINAL (FINISH) ELEVATION OF SLAB FOUNDATIONS SHALL SLOPE AWAY IN ALL DIRECTIONS FROM THE CENTER. FINISH GRADE OF CONCRETE PADS SHALL BE A MAXIMUM OF 4 INCHES ABOVE FINAL FINISH GRADE ELEVATIONS. PROVIDE SURFACE FILL GRAVEL TO ESTABLISH SPECIFIED ELEVATIONS WHERE REQUIRED.

- NEWLY GRADED GRAVEL SURFACE AREAS TO RECEIVE GRAVEL SHALL BE COVERED WITH PROTECTIVE FABRIC, NOT LESS THAN 1/8" THICK, MANUFACTURED BY A REPUTABLE MANUFACTURER OF APPROVED EQUIVALENT. THE PROTECTIVE GEOTEXTILE FABRIC SHALL BE BLACK IN COLOR TO CONTROL THE RECURRENT OF VEGETATIVE GROWTH AND EXTEND TO WITHIN 1' FOOT OUTSIDE THE SITE FENCING OR ELECTRICAL GROUNDING SYSTEM PERIMETER WHICH EVER IS GREATER. ALL FABRIC SHALL BE COVERED WITH A MINIMUM OF 4" DEEP COMPACTED STONE OR GRAVEL AS SPECIFIED I.E. FOOT NO. 57 FOR NO. 57 FENCED COMPOUND; FOOT TYPE NO. 67 FOR ACCESS DRIVE AREA, UNLESS OTHERWISE NOTED.

- 6 IN ALL AREAS TO RECEIVE FILL REMOVE ALL VEGETATION, TOP SOIL, DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE. FLOW STRIP OR BREAK UP SLOPED SURFACES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL SUCH THAT FILL MATERIAL WILL BIND WITH (E)/PREPARED SOIL SURFACE.

7. WHEN SUB GRADE OR PREPARED GROUND SURFACE HAS A DENSITY LESS THAN THAT REQUIRED FOR THE FILL MATERIAL, SCARIFY THE GROUND SURFACE TO DEPTH REQUIRED, PULVERIZE, MOISTURE-CONDITION AND/OR ACRATE THE SOILS AND RECOMPACT TO THE REQUIRED DENSITY PRIOR TO PLACEMENT OF FILLS.

8. IN AREAS WHICH (E) GRAVEL SURFACING IS REMOVED OR DISTURBED DURING CONSTRUCTION OPERATIONS, REPLACE GRAVEL SURFACING TO MATCH ADJACENT GRAVEL SURFACING AND RESTORED TO THE SAME THICKNESS AND COMPACTION

AS SPECIFIED ALL RESTORED GRAVEL SURFACING SHALL BE FREE FROM CORRUGATIONS AND WAVES

- 9 (E) GRAVEL SURFACING MAY NOT BE REUSED

70. GRAVEL SUB SURFACE SHALL BE PREPARED TO REQUIRED COMPACTION AND SUB GRADE ELEVATIONS BEFORE GRAVEL SURFACING IS PLACED AND/OR RESTORED ANY LOOSE OR DISTURBED MATERIALS SHALL BE THOROUGHLY COMPACTED AND ANY DEPRESSIONS IN THE SUB GRADE SHALL BE FILLED AND COMPACTED WITH APPROVED SELECTED MATERIAL GRAVEL SURFACING MATERIAL SHALL NOT BE USED FOR FILLING DEPRESSIONS IN THE SUB GRADE

21. PROTECT (E) GRAVEL SURFACING AND SUB GRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE USE PLANKING MATTS OR OTHER SUITABLE PROTECTION DESIGNED TO SPREAD EQUIPMENT LOADS AS MAY BE NECESSARY. REPAIR ANY DAMAGE TO (E) GRAVEL SURFACING OR SUB GRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRACTOR'S OPERATIONS

22. DAMAGE TO (E) STRUCTURES AND/OR UTILITIES RESULTING FROM CONTRACTORS NEGLIGENCE SHALL BE REPAIRED AND/ OR REPLACED TO THE OWNERS SATISFACTION AT NO ADDITIONAL COST TO THE CONTRACT.

- 23 ALL SUITABLE BORROW MATERIAL FOR BACK FILL OF THE SITE SHALL BE INCLUDED IN THE BID. EXCESS TOPSOIL AND UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF SITE AT LOCATIONS APPROVED BY GOVERNING AGENCIES AT NO ADDITIONAL COST TO THE CONTRACT



PROJECT NO:	108500000
DRAWN BY:	AL
CHECKED BY:	JF

1	10/11/70	VC RECORDED
2	17/04/71	FOR CLIC REVIEW

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

PRELIMINARY

90RB000449B
ITS PASS, OR 97526

SHEET TITLE
GENERAL NOTES

TEST NUMBER
GN-3

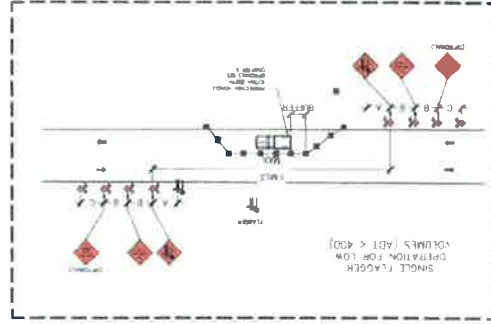
STATIONARY LANE CLOSURE WITH FLAGGING

DIAGRAM 320 COVERS TOTAL CLOSURE OF ONE LANE OF A TWO-LANE, TWO-WAY ROADWAY. SEE THE DETAIL INSET FOR THE LAYOUT IF USING A SINGLE FLAGGER TO CONTROL BOTH DIRECTIONS OF TRAFFIC ON LOW VOLUME ROADS (LESS THAN 400 A.D.T.) WITH GOOD SIGHT DISTANCE AS DISCUSSED BELOW.

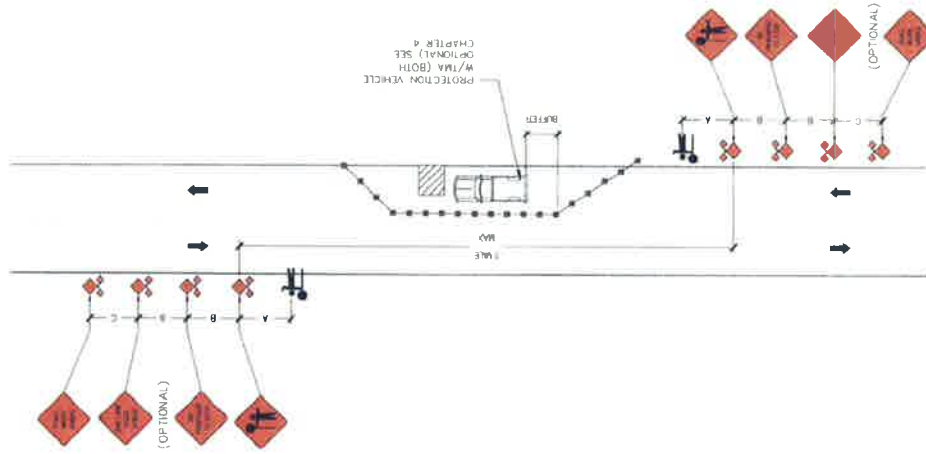
1. USE TRUCK-MOUNTED FLASHING WARNING LIGHTS ON WORK AND PROTECTION VEHICLES. SEE SECTION 4.3 - LIGHTS AND LIGHTED SIGNS FOR EXCEPTIONS.
2. FOR ADDITIONAL VISIBILITY, A TRUCK-MOUNTED ARROW BOARD OR PONE IN CAUTION MODE MAY BE USED.
3. FLAGGERS AT EACH APPROACH ARE REQUIRED IF ANY OF THE FOLLOWING CONDITIONS EXIST:
 - A. HIGH OPERATIONS
 - B. APPROACH LENGTH FOR 200 FEET IN LENGTH
 - C. SIGHT DISTANCE IS LESS THAN 700 FEET FROM EACH APPROACH THROUGH THE LANE CLOSURE
 - D. TRAFFIC VOLUMES ARE GREATER THAN 400 ADT
4. THE LENGTH BETWEEN THE FLAGGERS AHEAD SIGNS SHALL NOT EXCEED ONE MILE. USE DIAGRAM 340 - LANE CLOSURE WITH PLUET CAR IF EXCEEDING ONE MILE.
5. CONES SHOULD BE USED TO OUTLINE THE WORK SPACE WHEN CURVES OR OTHER ROADWAY ALIGNMENTS PREVENT CLEAR VISION FOR THE VOTONISTS TO PASS THE WORK SPACE SAFELY.
6. CONE ALONG THE WORK SPACE ARE RECOMMENDED WHEN POSTED SPEEDS ARE 45 MPH OR GREATER. WHEN WORKING UNDER HEAVY TRAFFIC OR WHEN TRAVEL LANES ARE NARROWER THAN 11 FEET.
7. EXTENDED QUEUE SIGNING (SEE DIAGRAM 5-4) SHOULD BE USED WHEN TRAFFIC QUEUES EXTEND BEYOND THE INITIAL ADVANCE WARNING SIGN.
8. WHEN FLAGGING NEAR AN INTERSECTION, THE "FLAGGER AHEAD" (CW323-2) SIGN SHOULD BE VISIBLE TO TRAFFIC ENTERING FROM ANY SIDE. ROAD ADDITIONAL ADVANCE WARNING AND FLAGGER AHEAD SYMBOL SIGN MAY BE PLACED ON THE SIDE ROAD(S).
9. SIGN SET-UP AND FLAGGER PLACEMENT SHOWN MAY BE USED FOR INTERMITTENT FULL ROAD CLOSURE OF 20 MINUTES OR LESS.
10. THE "ONE LANE ROAD AHEAD" (W20-4) SIGN IS OPTIONAL AND SHOULD BE CONSIDERED ON HIGH VOLUME OR HIGH SPEED ROADS, OR WHEN EXTENDED CLOSURES ARE EXPECTED.

GENERAL NOTES

WATER SPEED	OPENING BETWEEN DICES			RANGE OF SPACINGS
	A	B	C	
20			50	50
25	100	100	100	75
30				100
35				100
40	250	350	450	275
45				150
50	350	500	600	180
55				210
60				240



TWO FLAGGERS OPERATION



INFORMATION ON THE LAB FOR ANY
FURTHER INFORMATION, PLEASE CONTACT
THE LAB DIRECTOR AT 1-800-451-1234

PRELIMINARY

80RB000945B
GRANTS PASS OR. 97526
EXISTING STEEL LIGHT POLE

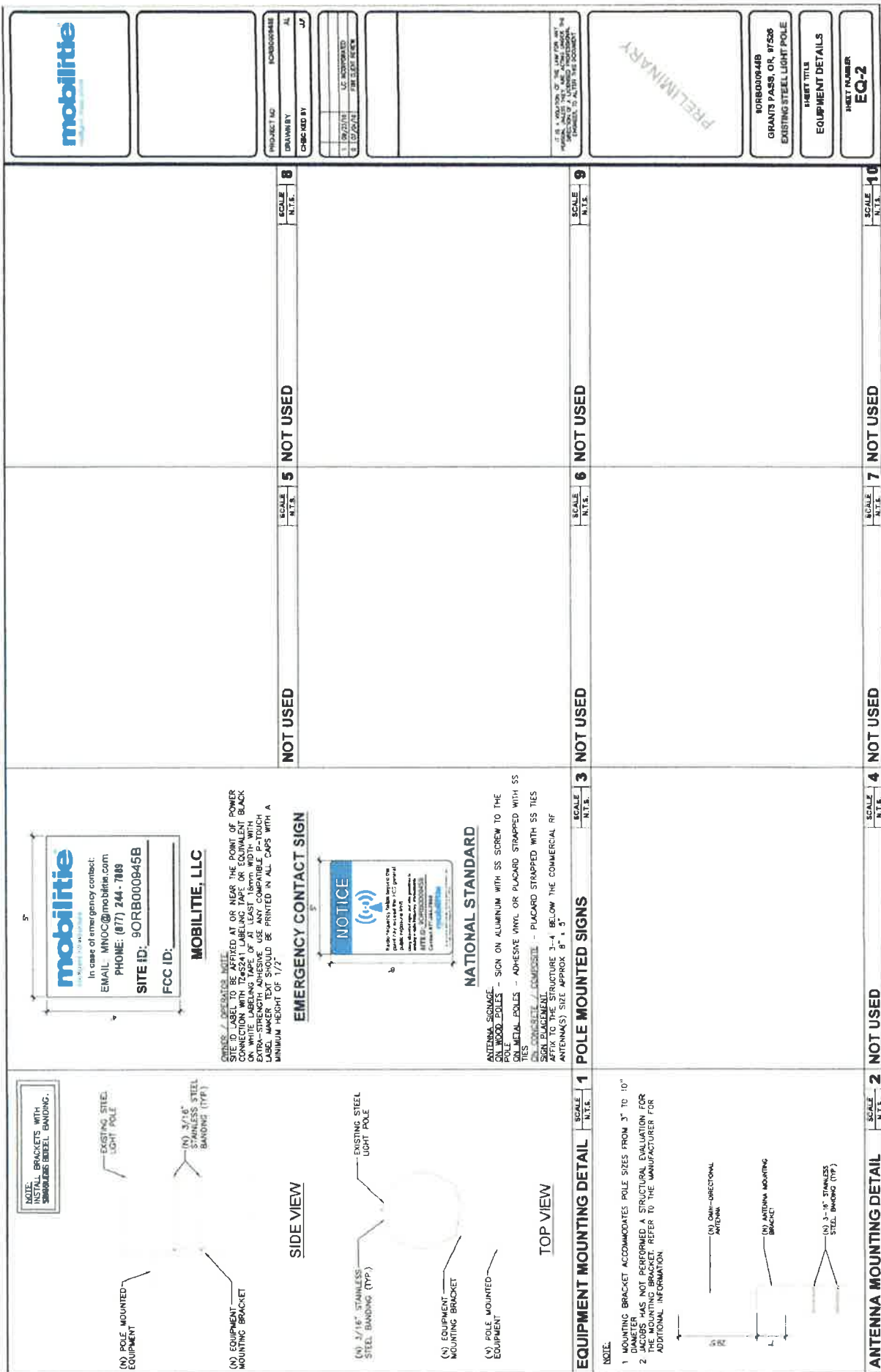
PROJECT TITLE
VEHICULAR TRAFFIC
CONTROL PLAN

TC-1

TRAFFIC CONTROL PLAN

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

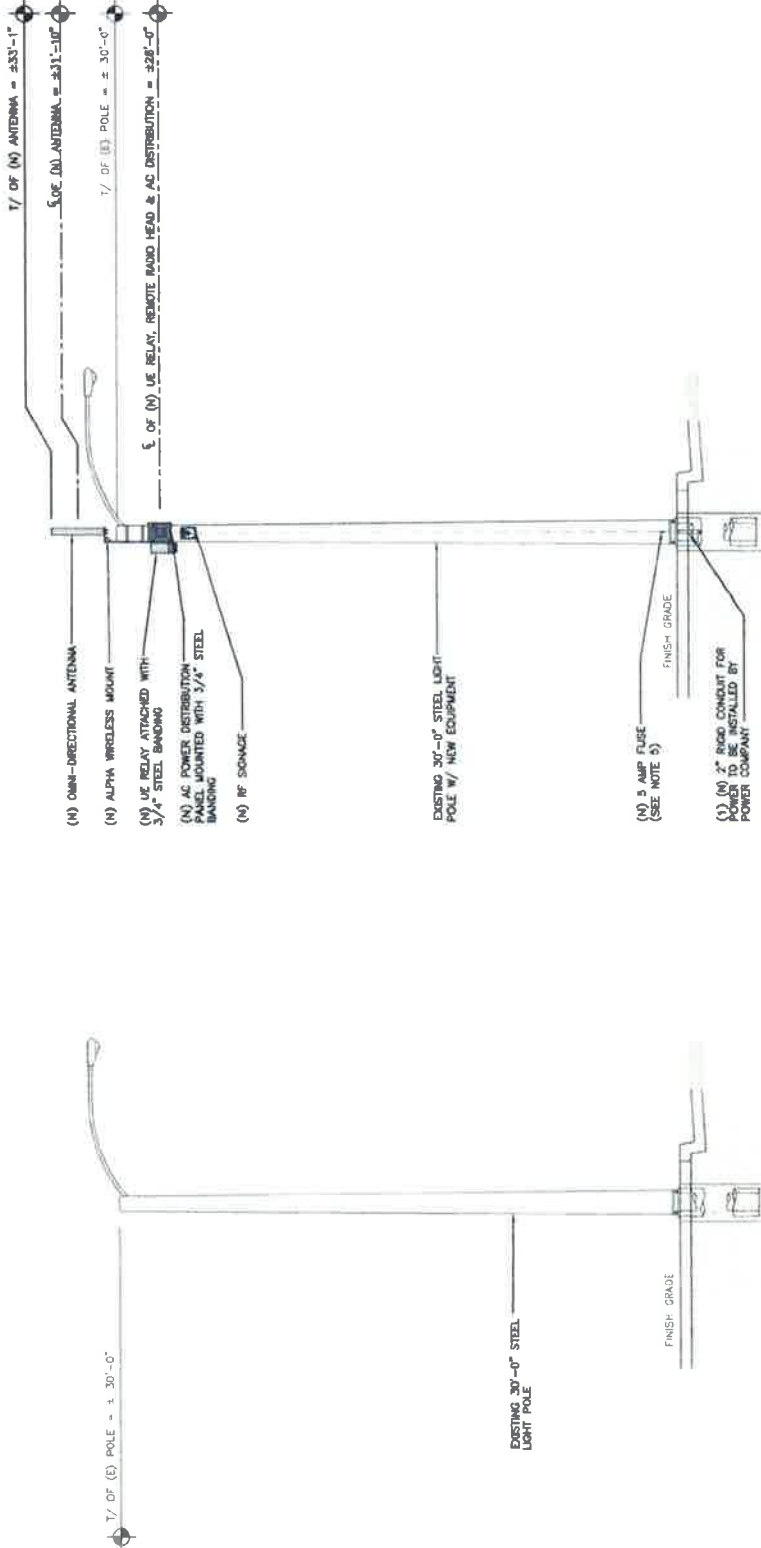






NOTES:

1. ALL HARDWARE SHALL BE STAINLESS STEEL.
2. ALL CABLES SHALL BE SECURED TO POLE EVERY 36" OR LESS.
3. LIGHTNING RODS SHALL BE INCLUDED AS REQUIRED.
4. STRUCTURAL BACKFILL TO BE COMPACTED IN 6" MAXIMUM LAYERS TO 95% OF CONTENT IN ACCORDANCE WITH ASTM D688. ADDITIONALLY, STRUCTURAL BACKFILL MUST HAVE A MINIMUM COMPACTED UNIT WEIGHT OF 100 POUNDS PER CUBIC FOOT (156N/MS).
5. NEW WIRE MUST BE CONNECTED TO THE PRIMARY WIRE AND MUST NOT BE CONNECTED IN-LINE WITH BSL'S FUSE. THE EXISTING BSL WIRE IS FUSED IN THE PULL-BOX AND ENERGIZES THE LUMINAIRE.



EXISTING SIDE VIEW

NEW SIDE VIEW

(E) POLE ELEVATIONS
SCALE 3/16" = 1'-0" (3/8" = 1'-0" ON 22"x34" SHEET)

1

mobile

PROJECT NO: 90RB0006488
DRAWN BY: AL
CHECKED BY: JP

1. 3/23/21 (AC WIRELESS MOUNT)
2. 1/27/21 (RF SIGNAGE)

1. 6" SOLUTION OF THE USE FOR ANY
PROPOSED OR EXISTING EQUIPMENT
DIRECTION OF LUMINAIRE OR SIGNAL
EQUIPMENT, 1/2" FROM THE EQUIPMENT

PRELIMINARY

90RB0006488
GRANTS PASS, OR, 97038
EXISTING STEEL LIGHT POLE

SHEET TITLE
POLE ELEVATIONS

SHEET NUMBER
EV-1



	07/09/08	16/02/09	17/02/09
CLINICAL STUDY	17/02/09	17/02/09	17/02/09
CLINICAL STUDY	17/02/09	17/02/09	17/02/09

PRELIMINARY

GN-1

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC, ALL CODES AND ORDINANCES OF THE LOCAL JURISDICTION, AND POWER & TELEPHONE COMPANIES HAVING JURISDICTION AND SHALL INCLUDE BUT ARE NOT BE LIMITED TO

13. THE CORRECTION OF ANY DEFECTS SHALL BE COMPLETED BY THE CONTRACTOR WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE THE REPLACEMENT OR THE REPAIR OF ANY OTHER PHASE OF THE INSTALLATION, WHICH MAY HAVE BEEN DAMAGED THEREIN.

14. CONTRACTORS SHALL PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES,
BONES, COVER PLATES AND DEVICES FOR ALL OUTLETS AS INDICATED.
15. OTICING AND BACK FILL. CONTRACTOR SHALL PROVIDE FOR ALL UNDERGROUND
INSTALLED CONDUIT AND/OR CABLES INCLUDING EXCAVATION AND BACKFILLING
CONDUIT. REFER TO NOTES AND REQUIREMENTS EXCAVATION, AND
BACKFILLING.
16. MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF,
SHALL BE OF THE BEST QUALITY AND SHALL MEET THE LIST OF U.S. APPROVED ITEMS AND
SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NEC, NECA AND IEC.
17. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR MANUFACTURER'S CATALOG
INFORMATION OF ANY/ALL EQUIPMENT AND ALL OTHER ELECTRICAL ITEMS FOR
APPROVAL BY THE AGENT NO PRIOR TO INSTALLATION.
18. ANY CUTTING OR PATCHING DEEMED NECESSARY FOR THE MOBILE WORK IS THE
ELECTRICAL CONTRACTOR'S RESPONSIBILITY AND SHALL BE INCLUDED IN THE COST.
ELECTRICAL CONTRACTORS RESPONSIBILITY TO THE SATISFACTION OF THE AGENT UPON
FINAL ACCEPTANCE.
19. THE ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN
INFORMATION. ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE
ELECTRICAL CONTRACTOR.
20. DISCONNECT SWITCHES SHALL BE UL-RATED, N.P. RATED HEAVY-DUTY,
QUICK-BREAK AND QUICK-BREAK ENCLOSURES, AS REQUIRED BY EXPOSURE TYPE.
21. ALL CONNECTIONS SHALL BE MADE WITH A PROTECTIVE COATING OF AN
ANTI-OXIDE COMPOUND KNOWN AS "NO-ONDE A," BY DEARBORN CHEMICAL CO.
OR EQUIVALENT. ALL ELECTRICAL CONNECTIONS, EXPOSURE TO COPPER SURFACES,
INCLUDING GROUND BARS, SHALL BE TREATED - NO SUBSTITUTIONS.
22. RACEWAYS: CONDUIT SHALL BE SCHEDULE 40 PVC MEETING OR EXCEEDING NEMA
SPECIFICATIONS. ALL RACEWAYS SHALL BE LACKEDED, AND SHALL BE 3/4" OR MORE
ELECTRIC CONDUITS AND PROVIDE TWO SEPARATE PULLS FOR 30 AMP TEST
POLYETHYLENE CORD. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 2 FT.
RADIUS RIGID CONDUITS WHEN SPECIFIED. SHALL MEET UL-6 FOR GALVANIZED
STEEL. CONDUIT SHALL BE USED WITH RIGID OR THREADED RIGID
CONDUIT COAT ALL THREADS WITH BRITNOL. ALL RACEWAYS SHALL BE
SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY NEC.
23. CONDUCTORS: CONTRACTORS SHALL USE 80% CONDUCTIVITY COPPER WITH TYPE
THIN INSULATION UNLESS OTHERWISE SPECIFIED. CONTRACTORS SHALL USE
SOLID CONDUCTORS FOR WIRE ABOVE 10 AWG AND INCLUDING NO 8 AWG USE STRANDED
CONDUCTORS FOR WIRE ABOVE NO 8 AWG.
24. CONNECTORS FOR POWER CONDUCTORS: CONTRACTOR SHALL USE PRESSURE
TYPE INSULATED TWIST-ON CONNECTORS FOR NO 10 AWG AND SMALLER USE
SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO 8 AWG AND LARGER.
25. SERVICE, AS SPECIFIED ON THE DRAWINGS, OWNER OR OWNER'S AGENT WILL
APPLY FOR POWER. ALL PROVISIONS FOR TEMPORARY POWER WILL BE OBTAINED
BY THE CONTRACTOR.
26. TELEPHONE OR FIBER SERVICE: CONTRACTOR SHALL PROVIDE EMPTY CONDUITS
WITH PULL STRINGS AS INDICATED ON DRAWINGS.
27. ELECTRICAL AND TELCO/FIBER RACEWAYS TO BE BURIED A MINIMUM DEPTH OF
30", UNLESS OTHERWISE NOTED.
28. CONTRACTOR SHALL PLACE 6" WIDE DETECTABLE WARNING TAPE AT A DEPTH OF
6" BELOW GROUND AND DIRECTLY ABOVE ELECTRICAL AND TELCO SERVICE
CONDUITS. CAUTIONS TAPE TO READ "CAUTION BURIED ELECTRICAL" OR "BURIED
TELECOM".
29. ALL BOLTS SHALL BE 3-16 STAINLESS STEEL.

1) ALL HARDWARE SHALL BE 3-16 STAINLESS STEEL, INCLUDING LOCK WASHERS COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND AS SPECIFIED. BEFORE NAILING: ALL HARDWARE SHALL BE STAINLESS STEEL 3/8 INCH DIAMETER OR LARGER

2. FOR GROUND BOND TO STEEL ONLY INSERT A CADMIUM FLAT WASHER BETWEEN THE CONDUIT AND THE STEEL SURFACE. THE CONDUIT SHALL BE BONDING COMPOUND BEFORE MATING.
3. ALL STEEL CONDUIT SHALL BE BONDED AT BOTH ENDS WITH GROUNDING BUSHING.
4. ALL ELECTRICAL AND GROUNDING AT THE POLE SITE SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 780 (LATEST EDITION), AND MANUFACTURER.

6. GROUND ALL ANTENNA BASES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING #6 GROUND WIRES. FOLLOW ANTENNA AND BITS MANUFACTURER'S AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS

7. ALL GROUND CONNECTIONS SHALL BE ~~AS~~ **AND**, UNLESS OTHERWISE NOTED, ALL WIRE SHALL BE COPPER WITH GROUND, UNLESS OTHERWISE NOTED. ALL GROUND WIRE SHALL BE SOLID THIN COATED OR STRANDED GREEN INSULATED WIRE.
8. CONTRACTOR TO VERIFY AND TEST GROUND TO SOURCE, TO OBTAIN MAXIMUM PROVIDE SUPPLEMENT GROUNDING RODS AS REQUIRED TO MEET ALL REQUIREMENTS READING, GROUNDING AND OTHER OPTIONAL TESTING WILL BE WITNESSED BY THE MODULITE ON.
9. NOTIFY ARCHITECT/ENGINEER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.
10. ALL HORIZONTALLY RUN GROUNDING CONDUCTORS SHALL BE INSTALLED A MINIMUM OF 30" BELOW GRADE/ 6' BELOW FROST-LINE IN TRENCH, UNLESS OTHERWISE NOTED. BACK FILL SHALL BE COMPACTED AS REQUIRED BY ARCHITECT/ENGINEER.
11. ALL GROUNDING CONDUCTORS SHALL BE RUN AS STRAIGHT AND SHORT AS POSSIBLE, WITH A MINIMUM 12" BENDING RADIUS NOT LESS THAN 90 DEGREES.

12. ALL RACE TABLE CONNECTIONS FOR GROUNDING SYSTEM SHALL BE 12 AWG, RNDY, HY-GRADE U.L. LISTED CONNECTORS FOR OUTDOOR USE OR AS APPROVED BY APPLICANT PROJECT MANAGER. CADWELD, EXOTHERMIC WELDS WELDED CONNECTIONS)

- 12.B ONE (1) HOLE TINNED COPPER COMPRESSION (LONG BARREL) FITTINGS
13. ALL CROWNED CONNECTIONS SHALL HAVE EXPOSED MANUFACTURER'S MARK VISIBLE AT THE CRIMP (RESULTING FROM USE OF PROPER CRIMPING DEVICES) AND BE WEATHER-PROOFED WITH HEAT SHANKING.
14. ALL CONNECTION HARDWARE SHALL BE TYPE 3-16 STAINLESS STEEL, NOT ATTRACTED TO MAGNETS). ELECTRICAL SERVICE ELECTRICAL GROUNDING SHALL COMPLY WITH NEC ARTICLE 250-42 AND SHALL BOND ALL (E) AND NEW GROUNDING ELECTRODES. NEW GROUNDING ELECTRODE SHALL INCLUDE BUT NOT LIMITED TO GROUNDING

1. RF CABLE, DATA CABLE, RADIO EQUIPMENT AND BACK HAUL EQUIPMENT TESTING WILL COMPLY WITH CURRENT INDUSTRY STANDARDS AND OR THOSE STANDARDS OF THE EQUIPMENT MANUFACTURER OR PROVIDED TO THE CONTRACTOR PRIOR TO TESTING.

3. CONTRACTOR TO VERIFY AND RECORD ALL TEST RESULTS AND PROVIDE THESE RESULTS WITHIN THE FINAL CLOSE OUT PACKAGE.
4. ALL PERSONNEL INVOLVED IN THE TESTING OF RF CABLE, DATA CABLE, RADIO CABLE, AND/OR CABLES SHALL BE TRAINED AND CERTIFIED IN THE PROPER TESTING OF RF CABLE, DATA CABLE, RADIO CABLE, AND/OR CABLES.
5. ALL TEST RESULTS SHALL BE INK STAMPED, RECORDED AND PRESENTED PRIOR TO ENERGIZING AND TURN UP OF ANY EQUIPMENT.
6. GPS EQUIPMENT IS NOT TO BE TESTED OR ATTACHED TO ANY CABLING DURING TESTING, DURING SO WILL DAMAGE THE GPS UNIT.
7. PRIOR TO TESTING IF THE CONTRACTOR HAS ANY QUESTIONS ABOUT THE TESTING PROCEDURE, THE CONTRACTOR SHALL CONTACT AND OBTAIN ASSISTANCE FROM A QUALIFIED DESIGNATED TESTING REPRESENTATIVE.
8. EQUIPMENT IS NOT TO BE ENERGIZED UNTIL ALL TESTING HAS BEEN COMPLETED AND APPROVED. THE CONTRACTOR SHALL BE NOTIFIED AND GIVEN APPROVAL TO ENERGIZE THE EQUIPMENT.

1. DO NOT EXCAVATE OR DISTURB THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED

2. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS

- ALL (E) UTILITIES SHALL BE LOCATED FROM CONDUITS AND THEIR DIMENSIONS SHOWN ON PLANS HAVE BEEN PLOTTED FROM CONDUIT RECORDS. CONTRACTOR SHALL BE RESPONSIBLE FOR OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR ACCURACY OF ANY RECORDS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY RECORDS FOR THEIR REMOVAL OR ADJUSTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL (E) UTILITIES AND FACILITIES PRIOR TO ANY REMOVAL OR ADJUSTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND UTILITY METHODS OF REMOVING OR ADJUSTING (E) UTILITIES.

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FT	CHECKED BY
TV	PROGRAM BY
STORY SOURCES	PROJECT NO.

1	08/22/93	UC INCORPORATED
2	07/24/93	FOR CREDIT
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PRELIMINARY

90RB000945B
GRANTS PASS, OR, 97628
EXISTING STEEL LIGHT POLE

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-2

Our Solution - Small cell installations

