

PROJECT INFORMATION

SCOPE OF WORK (PROJECT SUMMARY):	THE PRINCIPAL SERVICES AND EQUIPMENT TO BE PROVIDED UNDER THIS PROJECT ARE THE INSTALLATION OF ANTENNAS ON AN EXISTING 150.8' TALL MONOPOLE TOWER AND STATE APPROVED INDUSTRIALIZED SHELTER INSIDE A PROPOSED FENCED COMPOUND
SITE ADDRESS:	4000 HARD ROAD DUBLIN, OH 43017
GPS COORDINATES:	LATITUDE: 40° 07' 25.58" LONGITUDE: 83° 05' 48.12"
PROPERTY OWNER:	THE BOARD OF EDUCATION OF THE DUBLIN CITY SCHOOL DISTRICT
TAX PARCEL:	273-009140
ENGINEER:	BURGESS AND NIPLE 5085 REED ROAD COLUMBUS, OH 43220 PHONE: (614) 459-2050 FAX: (614) 451-1385
APPLICANT:	CROWN CASTLE 2 EASTON OVAL SUITE 425 COLUMBUS, OHIO 43219 PHONE: (614) 269-5772
USE GROUP:	THE EQUIPMENT BUILDING IS AN ENGINEERED INDUSTRIALIZED UNIT BUILDING PRE-APPROVED BY THE STATE OF OHIO DIVISION OF INDUSTRIAL COMPLIANCE PER THE ATTACHED DRAWINGS. USE GROUP = U TYPE OF CONSTRUCTION = VB THE TOWER AND TOWER FOUNDATION SHALL BE INSTALLED IN ACCORDANCE WITH THE ATTACHED DESIGN AND MANUFACTURER'S DRAWINGS AND CALCULATIONS. USE GROUP = U TYPE OF CONSTRUCTION = IIB

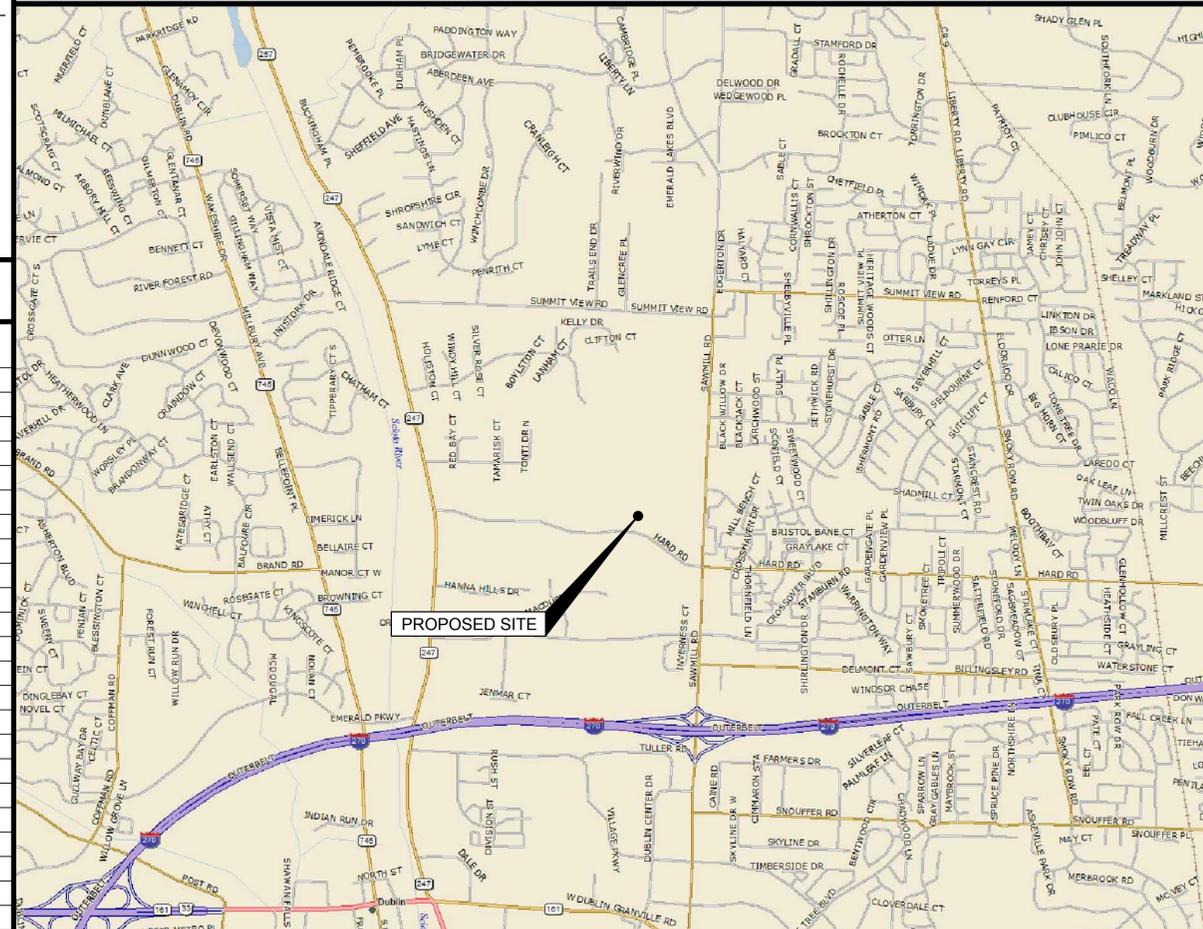
- ENVIRONMENTAL REQUIREMENTS NOTICE TO CONTRACTOR ATTACHED
- NO ENVIRONMENTAL RESTRICTIONS



VERIZON SITE NUMBER: CLMB-337
 VERIZON SITE NAME: DUBLIN SCIOTO
 CROWN SITE ID: 826150
 CROWN SITE NAME: N. RIVERSIDE/DUBLIN HS



LOCATION MAP



DRIVING DIRECTIONS:

FROM LEWIS CENTER OFFICE:
 HEAD SOUTH ON US-23. IN 4.6 MILES MERGE ONTO I-270W VIA THE RAMP TO INDIANAPOLIS. IN 3.8 MILES TAKE EXIT 20 FOR SAWMILL ROAD. KEEP RIGHT AT THE FORK AND FOLLOW SIGNS FOR SAWMILL ROAD N. IN 0.5 MILES TURN RIGHT ONTO SAWMILL ROAD. IN 0.4 MILES TURN LEFT ON HARD ROAD. IN 0.1 MILES TURN RIGHT AT CLADDAUGH LANE. FOLLOW ACCESS ROAD NORTH PAST BASEBALL DIAMONDS TO THE EAST AND TENNIS COURTS TO THE WEST. CONTINUE NORTH PAST TRACK AND BLEACHERS TO THE WEST AND EXISTING COMPOUND TO THE EAST. CONTINUE NORTH TO SITE.

CODE INFORMATION

CONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE GOVERNING AGENCY FOR THE LOCATION. THE EDITION OF THE GOVERNING AGENCY CODES AND STANDARDS IN EFFECT ON THE CONTRACT AWARD DATE SHALL GOVERN THE DESIGN.

- BUILDING CODES:**
- OHIO BUILDING CODE (2011 OBC), LATEST ADDITION AS ADOPTED BY THE GOVERNING AGENCY AND BY THE STATE OF OHIO
 - NATIONAL ELECTRICAL CODE (NEC 2014), LATEST ADDITION AS ADOPTED BY THE GOVERNING AGENCY AND BY THE STATE OF OHIO
 - NFPA 70 - NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) - (2014 EDITION)
 - NFPA 780 - LIGHTNING PROTECTION CODE - (2014 EDITION)
 - OHIO FIRE CODE 2011 (2009 IFC)
 - AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, EDITION 11
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, FOURTEENTH EDITION
 - TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G-09, STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES:
 - INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUNDING IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE 1100 (LATEST EDITION) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT
 - IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")
 - TELCORDIA GR-1275, GENERAL INSTALLATION REQUIREMENTS
 - TELCORDIA GR-1503, COAXIAL CABLE CONNECTIONS
 - ANSI T1.311, FOR TELECOM - DC POWER SYSTEMS - TELECOM, ENVIRONMENTAL PROTECTION
- FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.
- ADA COMPLIANCE: THE PROPOSED FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION AND WILL NOT GENERATE TRAFFIC OR PARKING.

DRAWING INDEX

DRAWING NO.	DRAWING TITLE	REV. NO.
N-1	COVER SHEET	0
N-2	CONSTRUCTION NOTES	0
N-3	CONSTRUCTION NOTES	0
N-4	EROSION AND SEDIMENT CONTROL NOTES	0
N-5	EROSION AND SEDIMENT CONTROL PLAN	0
N-6	EROSION AND SEDIMENT CONTROL DETAILS	0
N-7	EROSION AND SEDIMENT CONTROL DETAILS	0
1-3	SURVEY	0
2-3	SURVEY	0
3-3	SURVEY	0
A-1	TOWER ELEVATION AND DETAILS	0
C-1	OVERALL SITE PLAN	0
C-2	COMPOUND PLAN	0
C-3	FENCE AND SIGNAGE DETAILS	0
C-4	EQUIPMENT BUILDING PLAN	0
C-5	EQUIPMENT BUILDING NOTES AND DETAILS	0
C-6	CIVIL ENGINEERING PLAN	0
C-7	CIVIL ENGINEERING DETAILS	0
E-1	ELECTRICAL NOTES	0
E-2	PERMANENT UTILITY DETAILS AND ONE-LINE DIAGRAM	0
E-3	UTILITY & GROUNDING PLAN AND ELECTRICAL NOTES	0
E-4	ELECTRICAL AND GROUNDING DETAILS	0
E-5	GROUNDING DETAILS	0
E-6	FENCE GROUNDING DETAILS	0
E-7	TOWER FOUNDATION GROUNDING DETAILS	0

APPROVED BY DATE

PROPERTY OWNER:	
REAL ESTATE:	
INTEGRATION:	
CONSTRUCTION:	
RF ENGINEERING:	

BURGESS & NIPLE
 Engineers ■ Architects ■ Planners

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DESIGNED BY:	DRAWN BY:	DATE:	SCALE:
GSH	JBH	08/31/2015	AS SHOWN



SHEET TITLE

COVER SHEET

SHEET NUMBER
 N-1

PROJECT SPECIFICATIONS

DIVISION 1 - GENERAL REQUIREMENTS

- THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION AND CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITION, INCLUDING ALL SUPPLEMENTS THERETO SHALL GOVERN ALL CONSTRUCTION ITEMS THAT ARE PART OF THIS PLAN, UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION SITE SAFETY ISSUES IN ACCORDANCE WITH OSHA (OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION) AND ALL OTHER APPLICABLE LOCAL REGULATIONS. THE CONTRACTOR SHALL DIRECT AND COORDINATE ALL TRADES WITH REGARD TO SAFETY CONFORMANCE AND REPORT ALL VIOLATIONS OR SAFETY RELATED INCIDENTS TO VERIZON WIRELESS FIELD REPRESENTATIVES AND/OR OWNER.
- THE CONTRACTOR SHALL EXECUTE ALL WORK IN ACCORDANCE WITH ALL FEDERAL, STATE, LOCAL CODES, AND ORDINANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, INSPECTIONS, AND INSPECTION FEES AS REQUIRED BY THE GOVERNING AGENCIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND SCHEDULING OF ALL GOVERNING AGENCIES THAT REQUIRE SITE INSPECTIONS OF THE WORK RELATED TO ALL SITE CONSTRUCTION.
- THE CONTRACTOR SHALL CONTACT OUPS (OHIO UTILITIES PROTECTION SERVICE) AT 1-800-362-2764 AND EACH UTILITY COMPANY AT LEAST TWO (2) WORKING DAYS PRIOR TO ANY CONSTRUCTION OPERATIONS ON THE PROJECT SITE WHICH MAY INVOLVE A UTILITY COMPANY'S FACILITY.
- ALL WORK SHALL BE CONFINED TO THE LEASE AREA AND/OR ACCESS & UTILITY EASEMENTS, UNLESS AGREEMENT AND CONSENT OF THE PROPERTY OWNER IS OBTAINED BY THE CONTRACTOR IN WRITING. ANY CONSTRUCTION EQUIPMENT PARKED OUTSIDE OF THIS AREA OR OFF SITE SHALL BE APPROVED IN WRITING BY THE PROPERTY OWNER AND/OR ADJACENT PROPERTY OWNER. ANY DAMAGE CAUSED BY THE EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- SURVEYS, GEOTECHNICAL REPORTS, TOWER AND BUILDING DESIGNS ARE PREPARED BY OTHERS AND ARE NOT PART OF THE CONTRACT DOCUMENTS BY BURGESS NIPLE. THEY ARE PACKAGED HEREIN FOR REFERENCE PURPOSES. ANY DISCREPANCIES BETWEEN THE ABOVE DOCUMENTS AND THOSE PREPARED BY BURGESS & NIPLE SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE VERIZON WIRELESS FIELD REPRESENTATIVES AND/OR OWNER.
- EXISTING UTILITIES ARE SHOWN FROM THE SURVEY AND ARE NOT NECESSARILY COMPLETE OR ACCURATE. THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE, EXPOSE, AND DETERMINE IF CONFLICTS EXIST WITH THE PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER (BURGESS & NIPLE) IN ORDER TO RESOLVE ANY CONFLICTS. EXISTING DRAIN OR FIELD TILE DAMAGED SHALL BE REPAIRED OR REPLACED, AS NEEDED, IN LIKE KIND AND CHARACTER, AND AT THE EXISTING GRADE PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS HEREBY MADE AWARE THAT A GEOTECHNICAL REPORT HAS BEEN PERFORMED AND IS AVAILABLE FOR REVIEW. THE REPORT IS NOT TO BE CONSIDERED AS A COMPLETE RECORD OF THE EXISTING CONDITIONS AT THE SITE. THE CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS, INCLUDING SUBSURFACE CONDITIONS. THE CONTRACTOR SHALL OBTAIN PERMISSION FROM THE VERIZON WIRELESS FIELD REPRESENTATIVES AND/OR OWNER PRIOR TO SITE ENTRY FOR THE PURPOSE OF VERIFICATION OF EXISTING SITE CONDITIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND PROVIDING ALL NECESSARY CONSTRUCTION STAKING, INCLUDING BUT NOT LIMITED TO, THE TOWER CENTER, TOWER FOUNDATIONS, FENCE CORNERS, GATES, BUILDING FOUNDATION, ACCESS EASEMENT, UTILITY EASEMENT, ETC... THE ONLY ITEM THAT VERIZON WIRELESS WILL BE PROVIDING IN REGARDS TO THE SURVEYING IS TO HAVE THE LEASE CORNERS PINNED. ALL WORK RELATED TO THE CONSTRUCTION STAKING SHALL BE PERFORMED BY A SURVEYOR LICENSED IN THE STATE OF OHIO. THE CONTRACTOR SHALL INCLUDE ALL COST ASSOCIATED WITH THIS ITEM IN THEIR BID PRICE. IN THE EVENT OF A CONFLICT, THE CONTRACTOR SHALL NOTIFY THE VERIZON WIRELESS FIELD REPRESENTATIVES AND/OR OWNER IMMEDIATELY AND WAIT FOR FURTHER INSTRUCTIONS.
- ANY MODIFICATION TO THE SPECIFICATIONS OR CHANGES TO THE WORK AS SHOWN ON THE DRAWINGS SHALL HAVE PRIOR WRITTEN APPROVAL BY THE VERIZON WIRELESS FIELD REPRESENTATIVES AND/OR OWNER.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING PROPERTY RESULTING FROM THE CONSTRUCTION ACTIVITIES, INCLUDING BUT NOT LIMITED TO PAVEMENT, FINISHED GRADES, LANDSCAPING, BUILDINGS, SURVEY MARKERS, ETC... THE CONTRACTOR SHALL REPLACE IN LIKE KIND ALL EXISTING PAVEMENTS, INCLUDING SIDEWALKS AND CURBS, DAMAGED DURING CONSTRUCTION. ALL PAVEMENT EDGES SHALL BE SAW CUT FULL DEPTH IN AREAS OF DAMAGE AND ALONG ALL AREAS TO BE REMOVED SO THAT A STRAIGHT NEAT AND CLEAN EDGE IS AVAILABLE TO PAVE AGAINST. THE COST OF ALL PAVEMENT REPLACEMENT, SAW CUTTING, REMOVAL OF DAMAGED PAVEMENT, DRIVEWAY CULVERT AND HEADWALLS SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
- THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN ALL REQUIRED TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, OR GOVERNING LOCAL AGENCY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING EQUIPMENT ON-SITE TO HELP WITH THE PLACEMENT OF THE EQUIPMENT SHELTER (I.E. DOZER ETC... AVAILABLE TO PULL THE CRANE OR TRACTOR TRAILER OVER ROUGH OR WET SITE CONDITIONS). THE CONTRACTOR SHALL ANCHOR SHELTER AND INSTALL ALL FIXTURES ASSOCIATED WITH THE SHELTER ANCHORS/FIXTURES PROVIDED BY SHELTER MANUFACTURER.
- THE CONTRACTOR SHALL FOLLOW THE MANUFACTURER'S SPECIFICATIONS IF NO INFORMATION IS CONTAINED IN THESE PLANS OR IF THE MANUFACTURER'S SPECIFICATIONS ARE MORE STRINGENT.
- ALL MATERIALS AND WORKMANSHIP SHALL BE WARRANTED FOR ONE (1) YEAR FROM DATE OF ACCEPTANCE.
- IT IS IMPERATIVE THAT THE CONTRACTOR TAKE PRECAUTIONS IN SECURING THE SITE ON A DAILY BASIS. THE CONTRACTOR SHALL KEEP THE SITE CLEAN AND MAINTAIN A SECURE CONSTRUCTION AREA THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD.
- IF ANY HUMAN REMAINS OR ARTIFACTS OF HISTORICAL OR CULTURAL SIGNIFICANCE ARE DISCOVERED DURING PROJECT CONSTRUCTION, ALL WORK MUST CEASE IMMEDIATELY. THE CONTRACTOR SHALL ADVISE THE VERIZON WIRELESS FIELD REPRESENTATIVES AND/OR OWNER IMMEDIATELY AND WAIT FOR FURTHER INSTRUCTIONS.

DIVISION 3 - CONCRETE

- THE CONTRACTOR IS HEREBY NOTIFIED THAT ATC ASSOCIATES OR ANOTHER APPROVED 3RD PARTY INSPECTING AGENCY SHALL BE RETAINED FOR ALL CONCRETE TESTING, BEARING CAPACITY, RECOMMENDED DRILLED SHAFT INSTALLATION PROCEDURES, AND INSPECTION OF EACH DRILLED SHAFT INCLUDING THE REINFORCING STEEL PRIOR TO THE CONCRETE INSTALLATION. THE CONTRACTOR SHALL ARRANGE FOR THE INSPECTION AGENCY TO TAKE CONCRETE TEST CYLINDERS (3 PER CAISSON AND 1 PER BUILDING FOUNDATION). THE CYLINDERS SHALL BE MOLDED IN ACCORDANCE WITH ASTM-172, LABORATORY CURED IN ACCORDANCE WITH ASTM C-31, AND STRENGTH TESTED IN ACCORDANCE WITH ASTM C-39. THE INSPECTION AGENCY SHALL REMAIN ON-SITE DURING THE ENTIRE PERIOD THAT THE TOWER FOUNDATION(S) ARE BEING INSTALLED. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE SCHEDULING OF THE TESTING AND SHALL PAY ALL ASSOCIATED FEES. THE CONTRACTOR SHALL INCLUDE THIS COST IN THE BID PRICE ON THE APPROPRIATE LINE, IF APPLICABLE. THE CONTRACTOR SHALL INCLUDE COPIES OF ALL OF THE CERTIFIED LABORATORY TESTS IN THE CLOSE OUT DOCUMENTS.
- ALL CONCRETE SHALL BE IN ACCORDANCE WITH ODOT 499 CLASS C AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI @ 28 DAYS; VIBRATED; EXECUTED IN ACCORDANCE WITH ACI-318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, CURRENT EDITION; TESTED; AND CONSTRUCTED WITHIN 1/8" OF THE ELEVATIONS SPECIFIED HEREIN. THE MINIMUM CONCRETE COVER SHALL BE 3 INCHES, UNLESS NOTED OTHERWISE. PRIOR TO PLACING ANY CONCRETE, THE CONTRACTOR SHALL SUBMIT A CONCRETE DESIGN MIX TO THE ENGINEER FOR APPROVAL.
- PROVIDE LEAN CONCRETE (1500 PSI @ 28 DAYS) UNDER FOUNDATIONS FOR ACCIDENTAL OVER-EXCAVATION, SOFT SPOTS, AND TRENCHES.
- CONCRETE SHALL BE PROTECTED FROM FREEZING AND RAPID DRYING. AUXILIARY HEAT SHALL BE PROVIDED IN FREEZING WEATHER. CONCRETE SHALL BE COVERED AND KEPT WET FOR 3 DAYS AFTER POURING IN HOT, DRY WEATHER.

- ALL REINFORCING STEEL SHALL BE TIED, CONFORM TO ASTM-A615-82 GRADE 60, AND BE DETAILED IN ACCORDANCE WITH ACI-318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, CURRENT EDITION.
- ALL CONCRETE REINFORCING BARS MUST BE WIRE-TIED.
- ALL WELDED WIRE FABRIC REINFORCING SHALL CONFORM TO ASTM A185.
- ALL BUILDING FOUNDATIONS ARE DESIGNED FOR A 2500 PSF BEARING ON SUITABLE STRATUM. THE BOTTOM OF THE BUILDING FOUNDATION SHALL EXTEND TO THE LOCAL FROST DEPTH OR 3'-6", WHICHEVER IS GREATER.
- BUILDING SLAB AND FOOTERS SHALL BE PLACED AS A MONOLITHIC POUR.
- FINAL ORIENTATION OF TOWER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ORIENTATION SHALL BE PER ANCHOR BOLT DETAIL (PROVIDED BY TOWER MANUFACTURER) ±1 DEGREE AZIMUTH. CONTROL POINTS FOR AZIMUTH DETERMINATION ARE INDICATED ON SURVEY. VERIFY SIZE OF ANCHOR BOLTS WITH TOWER DRAWINGS UPON ARRIVAL OF PARTS TO SITE. CONTRACTOR SHALL REPORT ANY DISCREPANCY IMMEDIATELY TO THE ATTENTION OF THE VERIZON WIRELESS FIELD REPRESENTATIVES AND/OR OWNER.

DIVISION 5 - METALS

- ALL STRUCTURAL STEEL AND ERECTION PROCEDURES SHALL CONFORM TO THE AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, CURRENT EDITION.

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

- ALL ATTACHMENTS TO EXTERIOR OF SHELTER SHALL BE CAULKED WITH SILICONE AT TOP AND SIDE SEAMS. COLOR SHALL MATCH SHELTER.

DIVISION 13 - SPECIAL CONSTRUCTION

- FOR THE BUILDING DESIGN LOADS, SEE THE EQUIPMENT SHELTER DRAWINGS.

DIVISION 31 - EARTHWORK

- ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE RETURNED TO ORIGINAL CONDITION. FINISH GRADES SHALL BE ADJUSTED AS REQUIRED TO ELIMINATE ANY PONDING OF WATER. THE CONTRACTOR SHALL AT THE COMPLETION OF WORK REMOVE ALL DEBRIS FROM THE SITE AND AREAS DISTURBED, PERFORM FINAL GRADING, AND SEEDING AND MULCHING OF ALL AREAS DISTURBED IN ACCORDANCE WITH ODOT ITEM 659.
- THE CONTRACTOR SHALL DISPOSE OF ALL EXCESS EXCAVATION, FROM ALL SOURCES, OFFSITE AT THE CONTRACTOR'S EXPENSE, EXCEPT WITH THE EXPRESSED WRITTEN PERMISSION OF THE PROPERTY OWNER.
- ALL UTILITY TRENCHES WITHIN THE FENCED COMPOUND OR UNDER ANY PORTION OF A GRAVEL DRIVE AND/OR ROADWAY SHALL BE BACKFILLED WITH ODOT #57 COMPACTED AGGREGATE.
- IF A TRENCHER IS USED FOR EXCAVATION OF THE GROUND RING, THE CONTRACTOR SHALL PROVIDE ACCESS CLEARANCE AT ALL POINTS WHERE CADWELDS ARE TO OCCUR (I.E. WIDEN TRENCH BY HAND DIGGING). GROUND RING SHALL BE BURIED A MINIMUM OF 30" BELOW FINISHED GRADE.

BURGESS & NIPLE
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JBH		



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CONSTRUCTION NOTES

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N-2

DIVISION 32 - EXTERIOR IMPROVEMENTS

1. THE CONTRACTOR SHALL GRAVEL PROJECT SITE TO 1' BEYOND THE FENCED AREA WITH 4" OF ODOT ITEM 304 OVER 4" OF AASHTO #2 COMPACTED AGGREGATE. A FINAL 2" LAYER OF ODOT #57 COMPACTED AGGREGATE SHALL BE PLACED AFTER CONSTRUCTION IS COMPLETE. MIRAFI 600X PREFABRICATED DRAINAGE FABRIC SHALL BE PLACED UNDER AGGREGATE BASE, INCLUDING THE GRAVEL ACCESS DRIVE. CONSULT THE GEOTECHNICAL REPORT FOR UNSUITABLE SOIL TYPES AND RECOMMENDATIONS FOR NON-STANDARD EXCAVATION DEPTHS. THE CONTRACTOR'S BID SHALL REFLECT THESE RECOMMENDATIONS.
2. THE CONTRACTOR SHALL PERFORM GRADING IN ACCORDANCE WITH ODOT ITEM 203 AND FINISH GRADE THE SITE IN SMOOTH AND CONTINUOUS SLOPES, REMOVE EXCESS EXCAVATION FROM THE SITE, AND PROVIDE EMBANKMENT WHERE NEEDED FROM OFFSITE.
3. IMPORTED FILL MATERIAL SHALL BE OF THE TYPE REQUIRED AND COMPACTED AS OUTLINED IN THE GEOTECHNICAL REPORT, UNLESS NOTED OTHERWISE.
4. ANY PORTION OF AN EXISTING GRAVEL ACCESS DRIVE DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE DRESSED WITH A 2" LAYER OF ODOT #57 COMPACTED AGGREGATE AFTER PROJECT CONSTRUCTION IS COMPLETE.
5. THE FENCE ERECTED UNDER THIS CONTRACT SHALL BE TYPE C, 8'-0" TALL (AGL) AND CONFORM TO ODOT ITEM 607. POSTS, RAILS, AND FITTINGS SHALL BE GALVANIZED STEEL TYPE. THE FENCE FABRIC SHALL BE GALVANIZED STEEL TYPE, NO. 9 WIRE GAUGE, WITH A 2" WEAVE.
6. THE SWINGING ACCESS GATES SHALL BE BY THE SAME MANUFACTURER AS THE FENCE AND HAVE A TOTAL OPENING WIDTH OF 16'-0" (2 - 8" SECTIONS).
7. THE DOUBLE SWING GATE SHALL BE PROVIDED WITH (1) 1-3/8" TUBULAR PLUNGER BAR/DROP ROD, (1) 1-3/8" CAP, (1) CATCH/CENTERSTOP FOR THE PLUNGER BAR/DROP ROD, ONE (1) 1-5/8" FORK/LATCH WELDED TO THE PLUNGER BAR/DROP ROD, (2) 1-5/8" FORK CATCH/GUIDE, AND (2) GATE STOPS/ HOLDBACKS.

NOTICE TO BIDDERS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK INDICATED IN THE OUTLINE SPECIFICATIONS NOTES, EXCEPT AS SPECIFICALLY MODIFIED IN WRITING IN THE OWNER'S INVITATION TO BIDDERS.
2. THE CONTRACTOR SHALL REVIEW THE DRAWINGS AND VISIT THE SITE TO VERIFY ALL EXISTING CONDITIONS AND REPORT ANY AND ALL DISCREPANCIES TO THE VERIZON WIRELESS FIELD REPRESENTATIVES AND/OR OWNER PRIOR TO SUBMISSION OF BID. IF PARTS OF DRAWINGS AND/OR SPECIFICATIONS DISAGREE, THE CONTRACTOR SHALL BASE HIS BID ON AND BE RESPONSIBLE FOR THE GREATER QUANTITY OR QUALITY.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL TRASH CREATED BY HIMSELF OR HIS SUBCONTRACTORS, INCLUDING ANYONE DIRECTLY OR INDIRECTLY CONTRACTED THROUGH THE LESSEE. THIS WILL INCLUDE ANY TOWER WORK OR INTERIOR RF EQUIPMENT INSTALLATION HIRED OUT DIRECTLY BY LESSEE. ALL TRASH SHALL BE REMOVED FROM SITE IN A TIMELY FASHION TO A LEGAL DISPOSAL FACILITY.

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SHEET NUMBER
N-3

PLOTTED: 8/31/2015 10:30:05 AM

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EROSION AND SEDIMENT CONTROL

1. THE DESIGN OF EROSION CONTROL SYSTEMS SHALL FOLLOW THE REQUIREMENTS OF THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT) ITEM 207, TEMPORARY SEDIMENT AND EROSION CONTROLS AND AS SHOWN IN THESE DRAWINGS. THE CONTRACTOR SHALL BE CONSIDERED THE DEVELOPER OF THE STORMWATER DISCHARGE.
2. THE CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL AT ALL POINTS WHERE WATER LEAVES THE PROJECT, INCLUDING WATERWAYS, OVERLAND SHEET FLOW, AND STORM SEWERS, WHETHER SPECIFICALLY SHOWN ON THE PLANS OR NOT.
3. ACCEPTED METHODS OF PROVIDING EROSION/SEDIMENT CONTROL INCLUDE BUT ARE NOT LIMITED TO: SEDIMENT FILTERS, SILT FILTER FENCE, ROCK CHECK DAMS, AND TEMPORARY GROUND COVER.
4. THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE OF THE WORK AREA AT ALL TIMES CONSISTENT WITH EROSION CONTROL PRACTICES.
5. DISTURBED AREAS THAT WILL REMAIN UN-WORKED FOR 45 DAYS OR MORE SHALL BE SEEDED WITHIN 7 CALENDAR DAYS OF THE DISTURBANCE. OTHER SEDIMENT CONTROLS THAT ARE INSTALLED SHALL BE MAINTAINED UNTIL VEGETATIVE GROWTH HAS BEEN ESTABLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY SEDIMENT DEVICES AT THE CONCLUSION OF CONSTRUCTION BUT NOT BEFORE GROWTH OF PERMANENT GROUND COVER.
6. ALL DENUDED AREAS, INCLUDING STOCKPILED TOPSOIL AND EXCAVATED MATERIAL, ARE TO BE PROTECTED THROUGH THE USE OF TEMPORARY SEEDING, OR COVERED WITH ANCHORED STRAW MULCH.
7. FINAL GRADING WILL BE CONSISTENT WITH PRECONSTRUCTION TOPOGRAPHY TO MAINTAIN DRAINAGE AND AESTHETICS.
8. REMOVE ONLY THE TREES, SHRUBS, AND GRASSES THAT MUST BE REMOVED TO PERMIT ACTUAL CONSTRUCTION. PROTECT THE REMAINING TO PRESERVE THEIR AESTHETIC AND EROSION CONTROL VALUE.
9. BACKFILL TRENCHES IMMEDIATELY AFTER USE. SEED AND MULCH THE TRENCH AREA WITHIN 1 WEEK AFTER AREA OR SECTION HAS BEEN OPENED.
10. SETTLING FACILITIES, SEDIMENT FILTERS, PERIMETER CONTROLS, AND OTHER PRACTICES INTENDED TO TRAP SEDIMENT SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING OR CONSTRUCTION AND WITHIN 7 DAYS FROM THE START OF GRUBBING. THEY SHALL CONTINUE TO FUNCTION UNTIL THE UPSLOPE DEVELOPMENT AREA IS RE-STABILIZED.
11. WORKING IN OR CROSSING STREAMS - STREAMS INCLUDING BED AND BANKS SHALL BE RE-STABILIZED IMMEDIATELY AFTER IN-CHANNEL WORK IS COMPLETED, INTERRUPTED, OR STOPPED. TO THE EXTENT PRACTICABLE, CONSTRUCTION VEHICLES SHALL BE KEPT OUT OF STREAMS. WHERE IN-CHANNEL WORK IS NECESSARY, PRECAUTIONS SHALL BE TAKEN TO STABILIZE THE WORK AREA DURING CONSTRUCTION TO MINIMIZE EROSION. WHERE A STREAM MUST BE CROSSED BY CONSTRUCTION VEHICLES REGULARLY DURING CONSTRUCTION, A TEMPORARY CULVERT SHALL BE PROVIDED.
12. CONSTRUCTION ACCESS ROUTES - MEASURES SHALL BE TAKEN TO PREVENT SOIL TRANSPORT ONTO SURFACES WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, OR ONTO PUBLIC ROADS. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT OFF-SITE TRACKING OF SEDIMENTS BY VEHICLES AND EQUIPMENT IS ELIMINATED.
13. SLOUGHING AND DUMPING - NO SOIL, ROCK, DEBRIS, OR ANY OTHER MATERIAL SHALL BE DUMPED OR PLACED INTO A WATER RESOURCE OR INTO SUCH PROXIMITY THAT IT MAY READILY SLOUGH, SLIP, OR ERODE INTO A WATER RESOURCE UNLESS SUCH DUMPING OR PLACING IS AUTHORIZED BY THE GOVERNING JURISDICTION. UNSTABLE SOILS PRONE TO SLIPPING OR LAND SLIDING SHALL NOT BE GRADED, EXCAVATED, FILLED, OR HAVE LOADS IMPOSED UPON THEM UNLESS THE WORK IS DONE IN ACCORDANCE WITH A QUALIFIED PROFESSIONAL ENGINEER'S RECOMMENDATIONS TO CORRECT, ELIMINATE, OR ADEQUATELY ADDRESS THE PROBLEMS.

14. MAINTENANCE AND INSPECTION - ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE DESIGNED AND CONSTRUCTED TO MINIMIZE MAINTENANCE REQUIREMENTS. THEY SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ENSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. MAINTENANCE AND INSPECTION OF ALL EROSION AND SEDIMENT CONTROL DEVICES REQUIRED BY THE GOVERNING JURISDICTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. INSPECTIONS SHALL BE PERFORMED BY THE CONTRACTOR IN THE PRESENCE OF THE INSPECTOR, ONCE EVERY 7 CALENDAR DAYS AND/OR WITHIN 24 HOURS AFTER A RAIN EVENT OF GREATER THAN 0.5 INCHES IN A 24-HOUR PERIOD. THESE INSPECTIONS SHALL IDENTIFY AREAS CONTRIBUTING TO STORMWATER DISCHARGES ASSOCIATED WITH THE PROJECT; EVALUATE THE ADEQUACY, IMPLEMENTATION, AND MAINTENANCE OF EXISTING AND EXISTING EROSION AND SEDIMENTATION MEASURES; AND DETERMINE WHETHER ADDITIONAL MEASURES ARE REQUIRED. ACCEPTABLE INSPECTION REPORTS SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE GOVERNING JURISDICTION WITHIN 48 HOURS OF INSPECTION COMPLETION. THE REPORT SHALL CONTAIN THE RESULTS OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE TEMPORARY EROSION AND SEDIMENT CONTROL PLAN, A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE PLAN, AND IDENTIFYING ANY INCIDENTS OF NONCOMPLIANCE.
15. OUTFLOWS FROM DEWATERING OPERATIONS - ALL WATER PRODUCED FROM CLEANING AND DEWATERING OPERATIONS, WHETHER SPECIFICALLY FROM TRENCH DEWATERING OPERATIONS OR FROM MORE EXTENSIVE DEWATERING OPERATIONS, SHALL BE DISCHARGED IN SUCH A MANNER AS TO ELIMINATE EROSION FROM SUCH DISCHARGE.
16. ADDITIONAL CONTROLS - THE CONTRACTOR SHALL ENSURE THAT NO SEDIMENTS ARE TRACKED OFF-SITE BY CONSTRUCTION EQUIPMENT, VEHICLES, AND WORKERS. THE CONTRACTOR SHALL ALSO ENSURE THAT NO SOLID OR LIQUID WASTE IS DISCHARGED INTO ANY STORMWATER FLOW.
17. TEMPORARY EROSION AND SEDIMENT CONTROL PLAN AVAILABILITY AND UPDATES - THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO ENSURE THE IMMEDIATE AVAILABILITY OF THE TEMPORARY EROSION AND SEDIMENT CONTROL PLAN ON-SITE. THE CONTRACTOR SHALL ALSO BE SOLELY RESPONSIBLE TO PERFORM ALL UPDATES AND ADJUSTMENTS TO THE TEMPORARY EROSION AND SEDIMENT CONTROL PLAN.

FILTER FABRIC/SILT FENCE

THIS SEDIMENT BARRIER UTILIZES STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRICS. IT IS DESIGNED FOR SITUATIONS IN WHICH ONLY SHEET OR OVERLAND FLOWS ARE EXPECTED.

1. THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES (HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE).
2. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6 INCH OVERLAP, AND SECURELY SEALED.
3. POSTS SHALL BE SPACED A MAXIMUM OF 6 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET.
4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 6 INCHES WIDE AND 4 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
5. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.

6. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE AND 8 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
7. WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ITEM NO. 6 APPLYING.
8. THE TRENCH SHALL BE BACKFILLED AND SOIL COMPACTED OVER THE FILTER FABRIC.
9. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

MAINTENANCE (FILTER FABRIC/SILT FENCE)

1. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
2. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
4. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED, AND SEEDED.
5. THIS WORK SHALL BE PAID AT THE UNIT PRICE BID PER LINEAL FOOT FOR "FILTER FABRIC FENCE" PER ODOT ITEM 207.

TEMPORARY ROCK CHECK DAM

1. TEMPORARY ROCK CHECK DAMS SHALL CONSIST OF STONE WITHOUT FILTER, PER ODOT ITEM 207, AND PLACED TO THE DIMENSIONS SHOWN ON THE DETAIL.

MAINTENANCE (TEMPORARY ROCK CHECK DAM)

1. THE DAM SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. SEDIMENT SHALL BE REMOVED AND THE DAM RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DAM DESIGN HEIGHT. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA NOT SUBJECT TO EROSION.
2. DAMS SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
3. PAYMENT WILL BE MADE AT THE UNIT PRICE BID FOR ITEM SPECIAL-TEMPORARY ROCK CHECK DAM; INCLUDING MATERIAL, PLACEMENT, MAINTENANCE, AND REMOVAL PER ODOT ITEM 207.

BURGESS & NIPLE
Engineers ■ Architects ■ Planners

5085 REED ROAD
COLUMBUS, OH 43220
614-459-2050
FAX 614-451-1385

**CROWN SITE NAME:
N. RIVERSIDE/DUBLIN HS
CROWN SITE NUMBER: 826150
4000 HARD ROAD
DUBLIN, OH 43017**

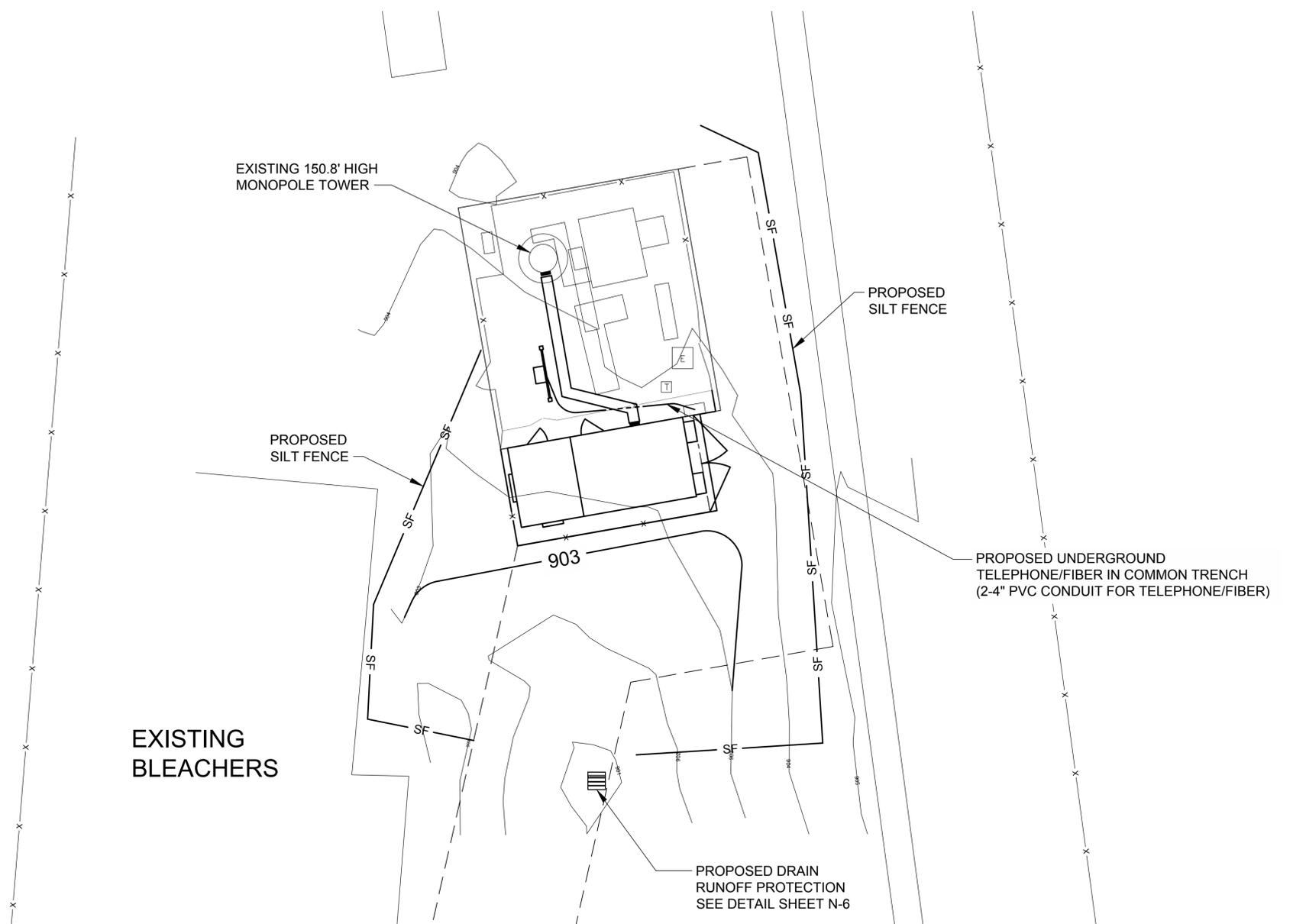


REV	DATE	DESCRIPTION
DESIGNED BY:	DRAWN BY:	DATE:
GSH	JBH	08/31/2015
		SCALE:
		AS SHOWN



SHEET TITLE
**EROSION AND
SEDIMENT
CONTROL NOTES**

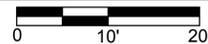
SHEET NUMBER
N-4



NOTES:

- 1. CONTRACTOR SHALL REPAIR ALL CONSTRUCTION RELATED DISTURBED AREAS OUTSIDE OF THE COMPOUND.

EROSION AND SEDIMENT CONTROL PLAN



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 COLUMBUS, OH 43220
 614-459-2050
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 4000 HARD ROAD
 DUBLIN, OH 43017



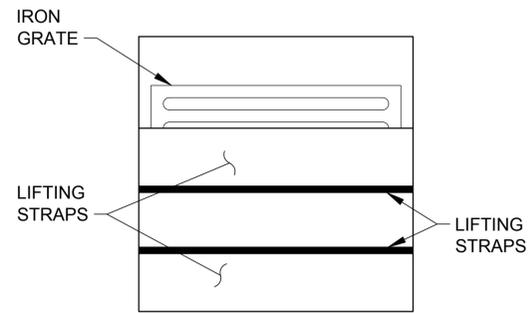
REV	DATE	DESCRIPTION	SCALE:
DESIGNED BY:	DRAWN BY:	DATE:	AS SHOWN
GSH	JBH	08/31/2015	



SHEET TITLE
EROSION AND SEDIMENT CONTROL PLAN

SHEET NUMBER

N-5



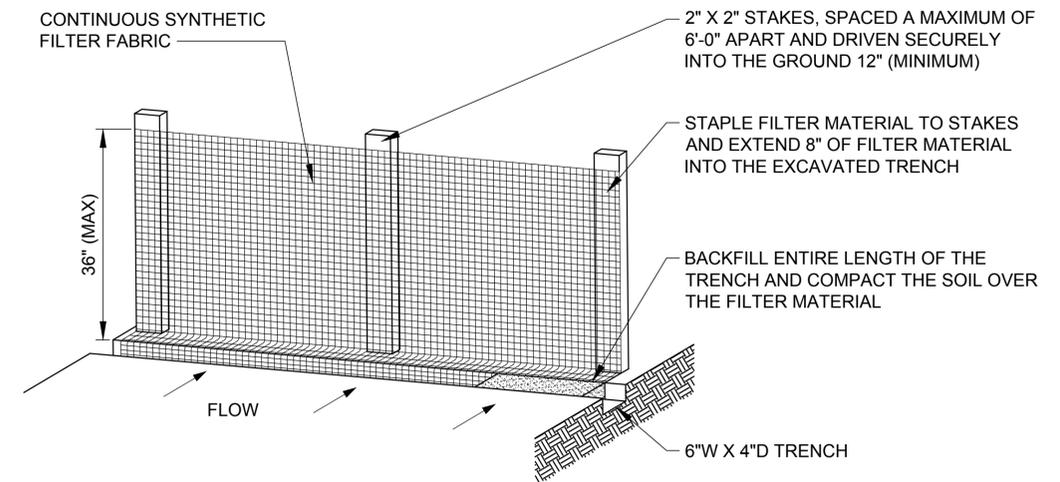
INLET SEDIMENT FILTER

NOT TO SCALE

MAINTENANCE: REMOVE DRIED SEDIMENT FROM SURFACE OF UNIT WITH A STIFF BRISTLE BROOM OR SQUARE POINT SHOVEL. REMOVE FINE MATERIAL FROM INSIDE ENVELOPE AS NEEDED.

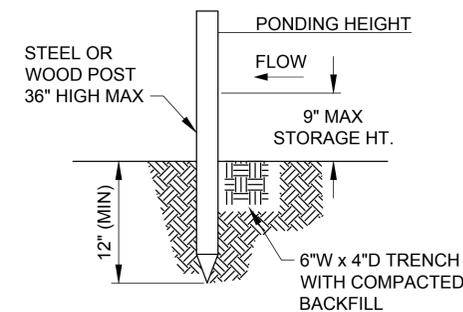
TO INSPECT CATCH BASIN: REMOVE UNIT WITH GRATE INSIDE, INSPECT CATCH BASIN AND REPLACE UNIT.

DANDY PRODUCTS INC.
2011 R HARRISBURG PIKE, GROVE CITY, OH 43123
(800) 591-2284 (614) 875-2284 FAX (614) 875-6305



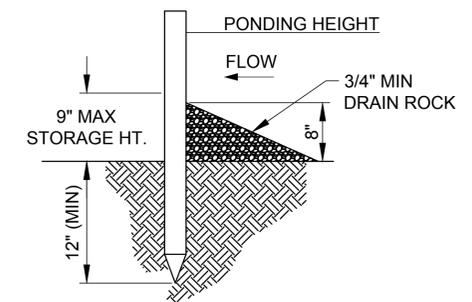
FILTER FABRIC/SILT FENCE

NOT TO SCALE



TRENCH DETAIL

NOT TO SCALE



INSTALLATION WITHOUT TRENCHING

NOT TO SCALE

NOTES:

1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. (9" MAX. RECOMMENDED STORAGE HEIGHT).
3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

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4000 HARD ROAD
DUBLIN, OH 43017



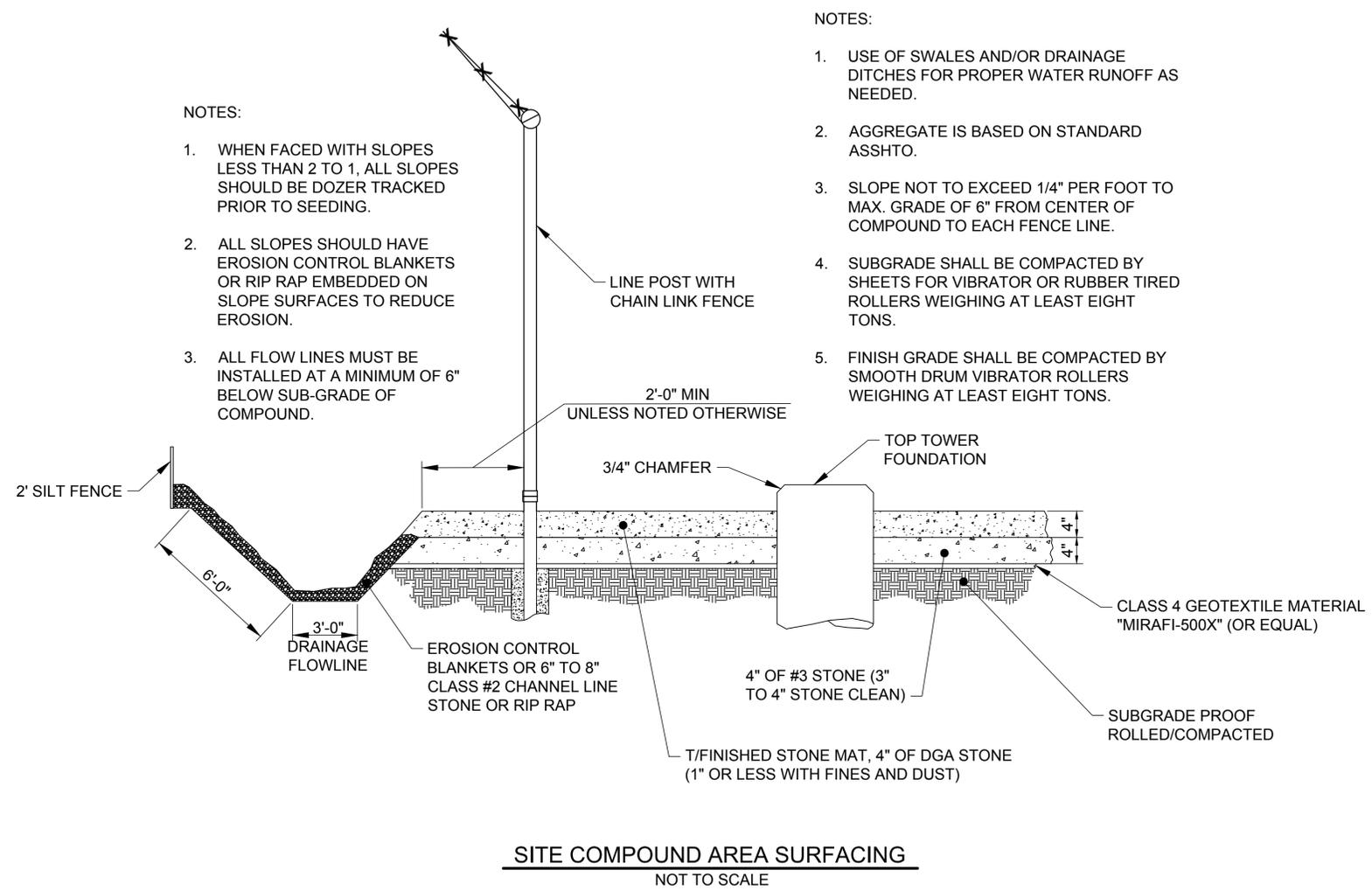
REV	DATE	DESCRIPTION	SCALE
DESIGNED BY:	DRAWN BY:	DATE:	SCALE:
GSH	JBH	08/31/2015	AS SHOWN



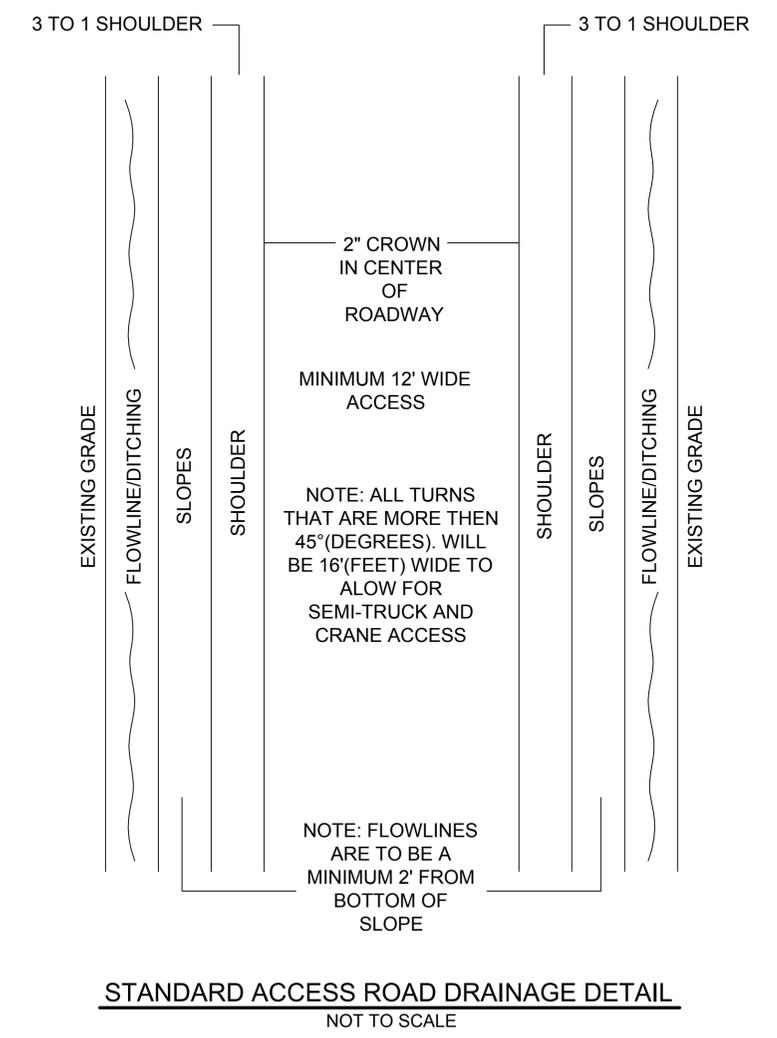
SHEET TITLE
**EROSION AND
SEDIMENT
CONTROL
DETAILS**

SHEET NUMBER

N-6



SITE COMPOUND AREA SURFACING
NOT TO SCALE



STANDARD ACCESS ROAD DRAINAGE DETAIL
NOT TO SCALE

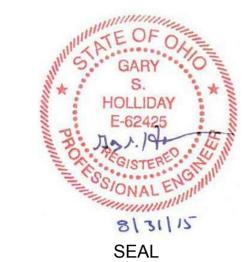
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COLUMBUS, OH 43220
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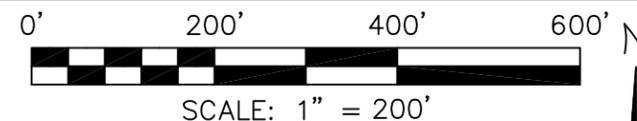
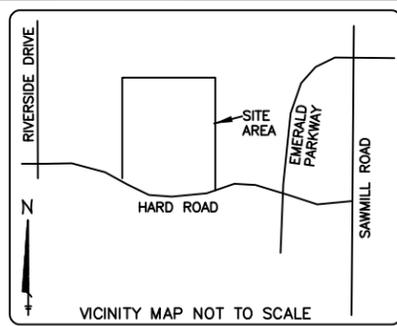
CROWN SITE NAME:
N. RIVERSIDE/DUBLIN HS
CROWN SITE NUMBER: 826150
4000 HARD ROAD
DUBLIN, OH 43017



REV	DATE	DESCRIPTION	SCALE
DESIGNED BY:	DRAWN BY:	DATE:	SCALE:
GSH	JBH	08/31/2015	AS SHOWN



SHEET TITLE
EROSION AND SEDIMENT CONTROL DETAILS
SHEET NUMBER
N-7



AS-BUILT SURVEY

PART OF LOTS 6 & 9, SECTION 2, TOWNSHIP 2,
RANGE 19, UNITED STATES MILITARY LANDS
CITY OF DUBLIN, FRANKLIN COUNTY

FOR: CROWN CASTLE

SITE: N. RIVERSIDE/DUBLIN HS
BUN: 826150
ADDRESS: 4000 HARD ROAD
DUBLIN, OHIO 43016
FRANKLIN COUNTY



3530 TORINGDON WAY, SUITE 300, CHARLOTTE, NC 28277
NATIONAL SURVEY SERVICES COORDINATION BY:

GEOLINE SURVEYING, INC.

13430 NW 104th Terrace, Suite A, Alachua, FL 32615
 Office: (386) 418-0500 Fax: (386) 462-9986
 WWW.GEOLINEINC.COM

SURVEY WORK PERFORMED BY:

SEILER AND CRAIG SURVEYING, INC.
 270 Park Avenue West
 Mansfield, OH 44902
 Office: (419) 525-3644 Fax: (419) 525-3696
 WWW.SEILERANDCRAIG.COM

DRAWN BY: NEK CHECKED BY: CFC JOB #: 826150_2015

SURVEYOR'S NOTES

- BEARINGS ARE BASED ON AN ASSUMED MERIDIAN, AND ARE INTENDED TO BE USED FOR ANGULAR DETERMINATION ONLY.
- NO SUBSURFACE INVESTIGATION WAS PERFORMED TO LOCATE UNDERGROUND UTILITIES. UTILITIES SHOWN HEREON ARE LIMITED TO AND ARE PER OBSERVED EVIDENCE ONLY.
- THIS SURVEY DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARENT PARCEL.
- ALL VISIBLE TOWER EQUIPMENT AND IMPROVEMENTS ARE CONTAINED WITHIN THE DESCRIBED AREA, UNLESS OTHERWISE NOTED ON THIS PLAT.
- PROPERTY LINES AND RIGHT OF WAYS ARE CALCULATED BY USING MONUMENTATION FOUND IN THE FIELD. (SHOWN ON PLAT)

SURVEYOR'S CERTIFICATION
 I HEREBY CERTIFY TO CROWN CASTLE.

SEILER AND CRAIG SURVEYING, INC.

Chad F. Craig
 CHAD F. CRAIG
 LAND SURVEYOR - OHIO # 8195

Date: 03/26/2015
 Revision: # 0/0/2015



EXPANSION AREA

LINE	BEARING	DISTANCE
L1	S 80°00'00" W	10.00'
L2	S 10°00'00" E	35.03'
L6	S 80°00'00" W	4.00'
L7	S 10°00'00" E	14.00'
L8	S 80°00'00" W	28.00'
L9	N 10°00'00" W	14.00'
L10	N 80°00'00" E	28.00'

EXISTING TOWER AREA

LINE	BEARING	DISTANCE
L1	S 80°00'00" W	10.00'
L2	S 10°00'00" E	35.03'
L3	S 80°00'00" W	32.00'
L4	N 10°00'00" W	35.03'
L5	N 80°00'00" E	32.00'

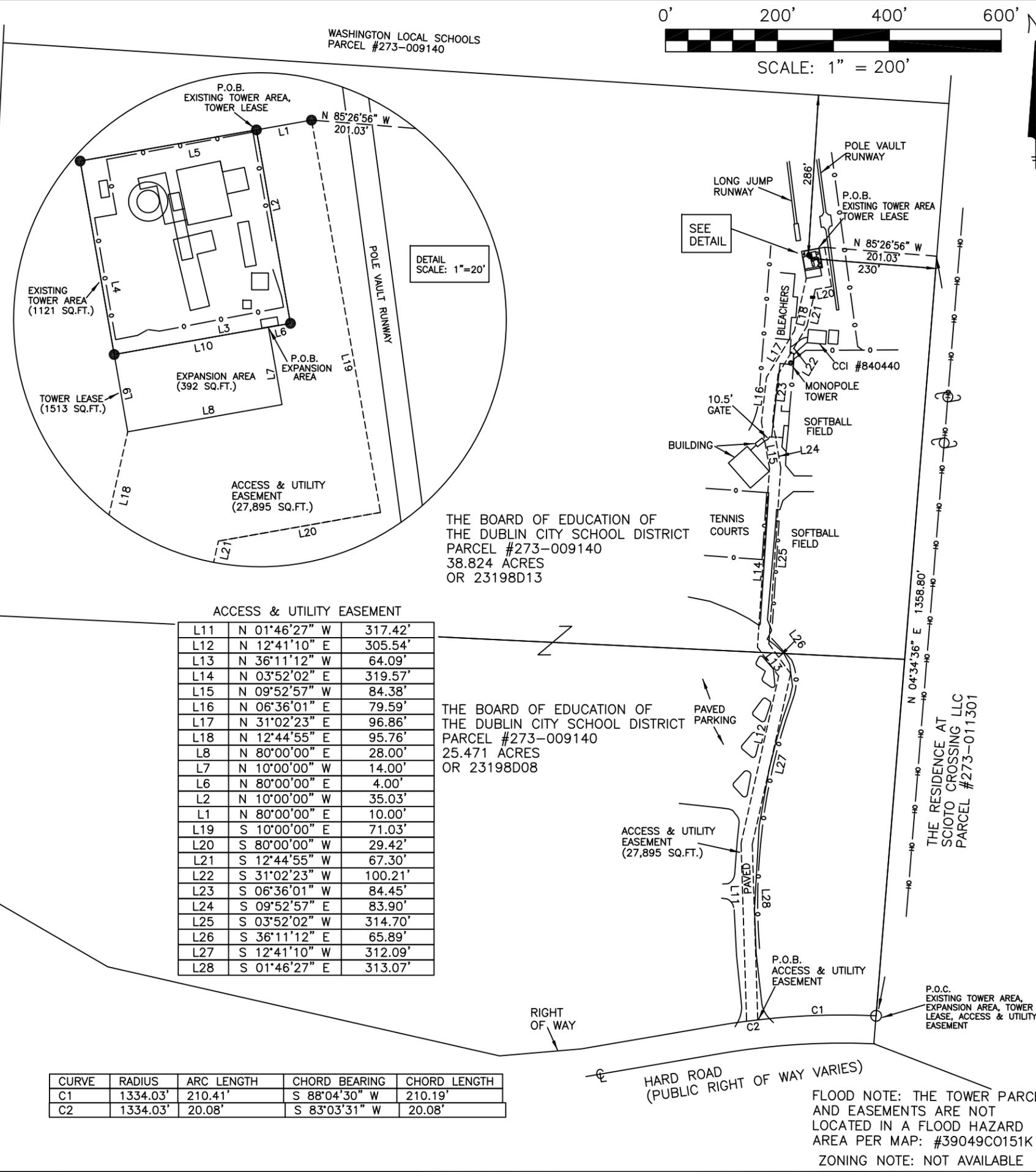
TOWER LEASE

L1	S 80°00'00" W	10.00'
L2	S 10°00'00" E	35.03'
L6	S 80°00'00" W	4.00'
L7	S 10°00'00" E	14.00'
L8	S 80°00'00" W	28.00'
L9	N 10°00'00" W	14.00'
L4	N 10°00'00" W	35.03'
L5	N 80°00'00" E	32.00'

- LEGEND**
- : SET 5/8" REBAR WITH "8195" CAP.
 - : FOUND 5/8" REBAR.
 - ⊗ : SURVEY SPIKE SET
 - ◆ : FENCE CORNER FOUND
 - ℙ : PROPERTY LINE
 - ℄ : CENTERLINE
 - P.O.B. : POINT OF BEGINNING.
 - P.O.C. : POINT OF COMMENCEMENT.
 - : FENCE AS NOTED.
 - : OVER HEAD UTILITY LINES.
 - ⊕ : WOOD UTILITY POLE.
 - ⊞ : ELECTRIC TRANSFORMER.
 - ⊟ : TELCO PEDESTAL.

AREA TABLE	SQUARE FEET	ACRE
(A) PARENT PARCEL	1691173+/-	38.824
(B) TOWER COMPOUND	932	0.021
(C) EXISTING TOWER AREA	1121	0.025
(D) EXPANSION AREA	392	0.009
(E) TOWER LEASE	1513	0.034
(F) ACCESS & UTILITY EASEMENT	27,895	0.640

CURVE	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
C1	1334.03'	210.41'	S 88°04'30" W	210.19'
C2	1334.03'	20.08'	S 83°03'31" W	20.08'



THE WOODLANDS SUBDIVISION SEC. 2

CITY OF DUBLIN PARCEL #273-008593

CITY OF DUBLIN PARCEL #273-008403

CITY OF DUBLIN PARCEL #273-008594

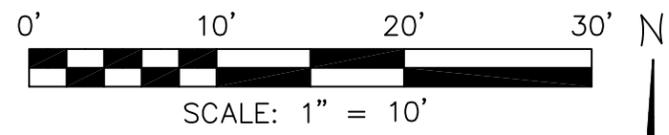
THE BOARD OF EDUCATION OF THE DUBLIN CITY SCHOOL DISTRICT
 PARCEL #273-009140
 38.824 ACRES
 OR 23198D13

THE BOARD OF EDUCATION OF THE DUBLIN CITY SCHOOL DISTRICT
 PARCEL #273-009140
 25.471 ACRES
 OR 23198D08

ACCESS & UTILITY EASEMENT

L11	N 01°46'27" W	317.42'
L12	N 12°41'10" E	305.54'
L13	N 36°11'12" W	64.09'
L14	N 03°52'02" E	319.57'
L15	N 09°52'57" W	84.38'
L16	N 06°36'01" E	79.59'
L17	N 31°02'23" E	96.86'
L18	N 12°44'55" E	95.76'
L8	N 80°00'00" E	28.00'
L7	N 10°00'00" W	14.00'
L6	N 80°00'00" E	4.00'
L2	N 10°00'00" W	35.03'
L1	N 80°00'00" E	10.00'
L19	S 10°00'00" E	71.03'
L20	S 80°00'00" W	29.42'
L21	S 12°44'55" W	67.30'
L22	S 31°02'23" W	100.21'
L23	S 06°36'01" W	84.45'
L24	S 09°52'57" E	83.90'
L25	S 03°52'02" W	314.70'
L26	S 36°11'12" E	65.89'
L27	S 12°41'10" W	312.09'
L28	S 01°46'27" E	313.07'

FLOOD NOTE: THE TOWER PARCEL AND EASEMENTS ARE NOT LOCATED IN A FLOOD HAZARD AREA PER MAP: #39049C0151K
 ZONING NOTE: NOT AVAILABLE



AS-BUILT SURVEY

PART OF LOTS 6 & 9, SECTION 2, TOWNSHIP 2,
RANGE 19, UNITED STATES MILITARY LANDS
CITY OF DUBLIN, FRANKLIN COUNTY
FOR: CROWN CASTLE

SITE: N. RIVERSIDE/DUBLIN HS
BUN: 826150
ADDRESS: 4000 HARD ROAD
DUBLIN, OHIO 43016
FRANKLIN COUNTY



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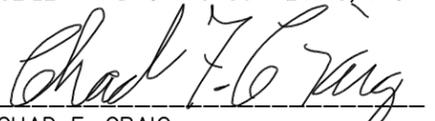
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DRAWN BY: NEK CHECKED BY: CFC JOB #: 826150_2015

SURVEYOR'S NOTES
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SURVEYOR'S CERTIFICATION
 I HEREBY CERTIFY TO CROWN CASTLE.

SEILER AND CRAIG SURVEYING, INC.

 CHAD F. CRAIG
 LAND SURVEYOR - OHIO # 8195

Date: 03/26/2015
 Revision: # 0/0/2015



EXPANSION AREA

LINE	BEARING	DISTANCE
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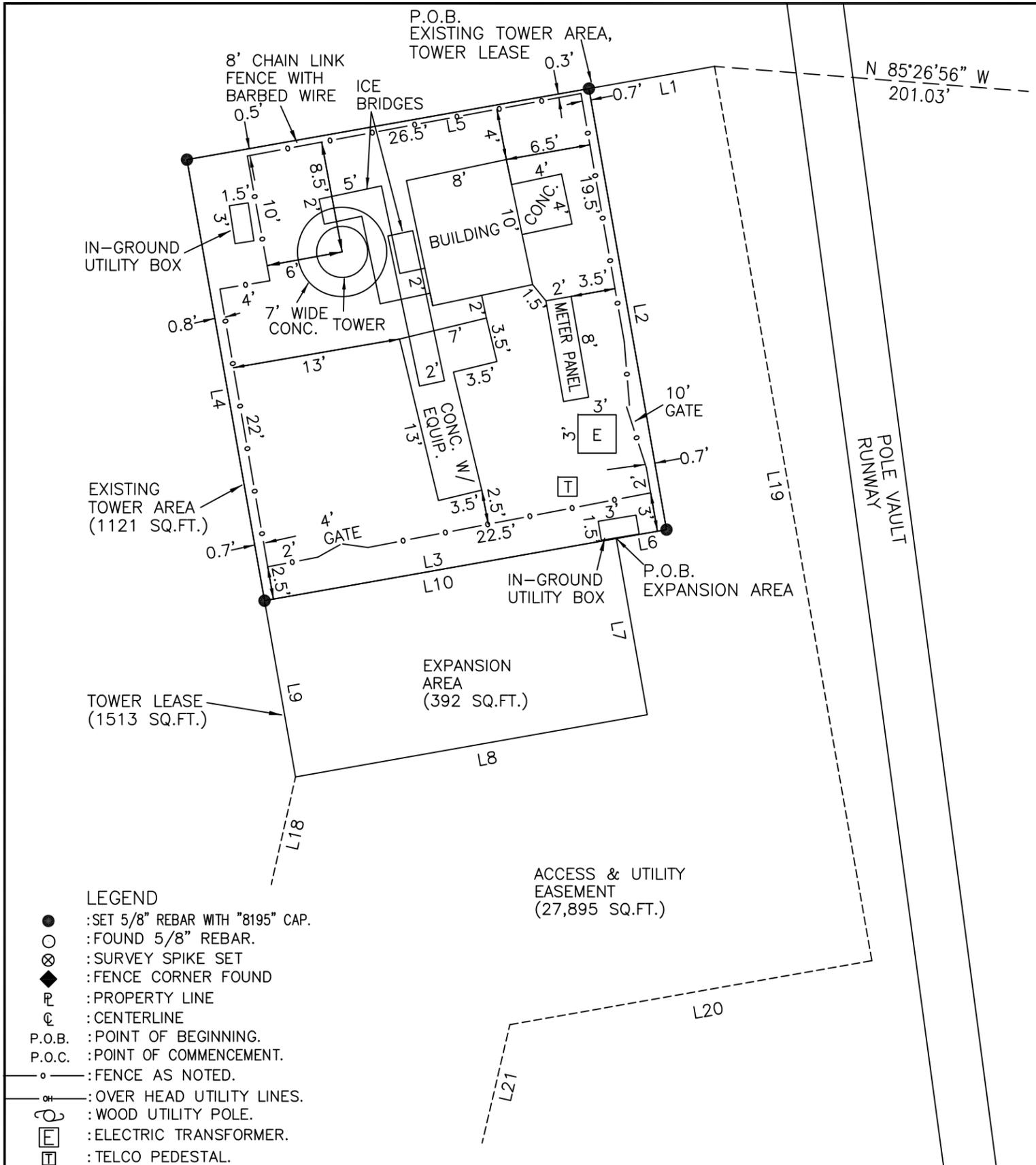
TOWER LEASE

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ACCESS & UTILITY EASEMENT

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L8	N 80°00'00" E	28.00'
L7	N 10°00'00" W	14.00'
L6	N 80°00'00" E	4.00'
L2	N 10°00'00" W	35.03'
L1	N 80°00'00" E	10.00'
L19	S 10°00'00" E	71.03'
L20	S 80°00'00" W	29.42'
L21	S 12°44'55" W	67.30'
L22	S 31°02'23" W	100.21'
L23	S 06°36'01" W	84.45'
L24	S 09°52'57" E	83.90'
L25	S 03°52'02" W	314.70'
L26	S 36°11'12" E	65.89'
L27	S 12°41'10" W	312.09'
L28	S 01°46'27" E	313.07'

CURVE	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
C1	1334.03'	210.41'	S 88°04'30" W	210.19'
C2	1334.03'	20.08'	S 83°03'31" W	20.08'



- LEGEND**
- : SET 5/8" REBAR WITH "8195" CAP.
 - : FOUND 5/8" REBAR.
 - ⊗ : SURVEY SPIKE SET
 - ◆ : FENCE CORNER FOUND
 - : PROPERTY LINE
 - ⊕ : CENTERLINE
 - P.O.B. : POINT OF BEGINNING.
 - P.O.C. : POINT OF COMMENCEMENT.
 - : FENCE AS NOTED.
 - : OVER HEAD UTILITY LINES.
 - ⊕ : WOOD UTILITY POLE.
 - ⊞ : ELECTRIC TRANSFORMER.
 - ⊞ : TELCO PEDESTAL.

AREA TABLE

	SQUARE FEET	ACRE
(A) PARENT PARCEL	1691173+/-	38.824
(B) TOWER COMPOUND	932	0.021
(C) EXISTING TOWER AREA	1121	0.025
(D) EXPANSION AREA	392	0.009
(E) TOWER LEASE	1513	0.034
(F) ACCESS & UTILITY EASEMENT	27,895	0.640

**DESCRIPTION FOR AN EXISTING TOWER AREA
N. RIVERSIDE/DUBLIN HS
SITE: B.U. #826150**

Situated in the City of Dublin, County of Franklin, State of Ohio and being known as part of Lots 6 & 9, Section 2, Township 2, Range 19, United States Military Lands, and being more particularly described as follows:

Commencing at an iron pin found and accepted as marking the southeast corner of a parcel currently owned by The Board of Education of the Dublin City School District (Parcel #273-009140) Thence, North 04 degrees 34 minutes 36 seconds East with the east line of said parcel a distance of 1358.80 feet to a point, Thence, North 85 degrees 26 minutes 56 seconds West a distance of 201.03 feet to a point, Thence, South 80 degrees 00 minutes 00 seconds East a distance of 10.00 feet to an iron pin set (L1), the place of beginning of the herein described area;

Thence, the following four (4) courses and distances:

1. South 10 degrees 00 minutes 00 seconds East a distance of 35.03 feet to an iron pin set (L2);
2. South 80 degrees 00 minutes 00 seconds West a distance of 32.00 feet to an iron pin set (L3);
3. North 10 degrees 00 minutes 00 seconds West a distance of 35.03 feet to an iron pin set (L4);
4. North 80 degrees 00 minutes 00 seconds East a distance of 32.00 feet (L5) to the place of beginning containing 1121 square feet (0.025 acre) according to survey by Chad F. Craig P.S. #8195 for Seiler and Craig Surveying, Inc. on March 26, 2015, but subject to all right of ways and easements of record.

Bearings are based on an assumed meridian and are intended to be used for angular determination only.

Created by this office.
Owner: The Board of Education of The Dublin City School District
Parcel I.D. #273-009140
OR 23198D13

**DESCRIPTION FOR AN EXPANSION AREA
N. RIVERSIDE/DUBLIN HS
SITE: B.U. #826150**

Situated in the City of Dublin, County of Franklin, State of Ohio and being known as part of Lots 6 & 9, Section 2, Township 2, Range 19, United States Military Lands, and being more particularly described as follows:

Commencing at an iron pin found and accepted as marking the southeast corner of a parcel currently owned by The Board of Education of the Dublin City School District (Parcel #273-009140) Thence, North 04 degrees 34 minutes 36 seconds East with the east line of said parcel a distance of 1358.80 feet to a point, Thence, North 85 degrees 26 minutes 56 seconds West a distance of 201.03 feet to a point, Thence, South 80 degrees 00 minutes 00 seconds East a distance of 10.00 feet to an iron pin set (L1), Thence, South 10 degrees 00 minutes 00 seconds East a distance of 35.03 feet to an iron pin set (L2), Thence, South 80 degrees 00 minutes 00 seconds West a distance of 4.00 feet to a point (L6), the place of beginning of the herein described area;

Thence, the following four (4) courses and distances:

1. South 10 degrees 00 minutes 00 seconds East a distance of 14.00 feet to a point (L7);
2. South 80 degrees 00 minutes 00 seconds West a distance of 28.00 feet to a point (L8);
3. North 10 degrees 00 minutes 00 seconds West a distance of 14.00 feet to a point (L9);
4. North 80 degrees 00 minutes 00 seconds East a distance of 28.00 feet (L10) to the place of beginning containing 392 square feet (0.009 acre) according to survey by Chad F. Craig P.S. #8195 for Seiler and Craig Surveying, Inc. on March 26, 2015, but subject to all right of ways and easements of record.

Bearings are based on an assumed meridian and are intended to be used for angular determination only.

Created by this office.
Owner: The Board of Education of The Dublin City School District
Parcel I.D. #273-009140
OR 23198D13

**DESCRIPTION FOR A TOWER LEASE
N. RIVERSIDE/DUBLIN HS
SITE: B.U. #826150**

Situated in the City of Dublin, County of Franklin, State of Ohio and being known as part of Lots 6 & 9, Section 2, Township 2, Range 19, United States Military Lands, and being more particularly described as follows:

Commencing at an iron pin found and accepted as marking the southeast corner of a parcel currently owned by The Board of Education of the Dublin City School District (Parcel #273-009140) Thence, North 04 degrees 34 minutes 36 seconds East with the east line of said parcel a distance of 1358.80 feet to a point, Thence, North 85 degrees 26 minutes 56 seconds West a distance of 201.03 feet to a point, Thence, South 80 degrees 00 minutes 00 seconds East a distance of 10.00 feet to an iron pin set (L1), the place of beginning of the herein described area;

Thence, the following six (6) courses and distances:

1. South 10 degrees 00 minutes 00 seconds East a distance of 35.03 feet to a point (L2);
2. South 80 degrees 00 minutes 00 seconds West a distance of 4.00 feet to a point (L6);
3. South 10 degrees 00 minutes 00 seconds East a distance of 14.00 feet to a point (L7);
4. South 80 degrees 00 minutes 00 seconds West a distance of 28.00 feet to a point (L8);
5. North 10 degrees 00 minutes 00 seconds West a distance of 49.03 feet to a point (L9+L4);
6. North 80 degrees 00 minutes 00 seconds East a distance of 32.00 feet (L5) to the place of beginning containing 1513 square feet (0.034 acre) according to survey by Chad F. Craig P.S. #8195 for Seiler and Craig Surveying, Inc. on March 26, 2015, but subject to all right of ways and easements of record.

Bearings are based on an assumed meridian and are intended to be used for angular determination only.

Created by this office.
Owner: The Board of Education of The Dublin City School District
Parcel I.D. #273-009140
OR 23198D13

**DESCRIPTION FOR AN ACCESS & UTILITY EASEMENT
N. RIVERSIDE/DUBLIN HS
SITE: B.U. #826150**

Situated in the City of Dublin, County of Franklin, State of Ohio and being known as part of Lots 6 & 9, Section 2, Township 2, Range 19, United States Military Lands, and being more particularly described as follows:

Commencing at an iron pin found and accepted as marking the southeast corner of a parcel currently owned by The Board of Education of the Dublin City School District (Parcel #273-009140) Thence, with the northerly right of way of Hard Road (public right of way varies) and with a curve to the left having a radius of 1334.03 feet, an arc length of 210.41 feet, a chord bearing of South 88 degrees 04 minutes 30 seconds West and a chord distance of 210.19 feet (C1) to a point, the place of beginning of the herein described easement;

Thence, the following twenty four (24) courses and distances:

1. with said right of way and with a curve to the left having a radius of 1334.03 feet, an arc length of 20.08 feet, a chord bearing of South 83 degrees 03 minutes 31 seconds West and a chord distance of 20.08 feet to a point (C1);
2. North 01 degree 46 minutes 27 seconds West a distance of 317.42 feet to a point (L11);
3. North 12 degrees 41 minutes 10 seconds East a distance of 305.54 feet to a point (L12);
4. North 36 degrees 11 minutes 12 seconds West a distance of 64.09 feet to a point (L13);
5. North 03 degrees 52 minutes 02 seconds East a distance of 319.57 feet to a point (L14);
6. North 09 degrees 52 minutes 57 seconds West a distance of 84.38 feet to a point (L15);
7. North 06 degrees 36 minutes 01 second East a distance of 79.59 feet to a point (L16);
8. North 31 degrees 02 minutes 23 seconds East a distance of 96.86 feet to a point (L17);
9. North 12 degrees 44 minutes 55 seconds East a distance of 95.76 feet to a point (L18);
10. North 80 degrees 00 minutes 00 seconds East a distance of 28.00 feet to a point (L8);
11. North 10 degrees 00 minutes 00 seconds West a distance of 14.00 feet to a point (L7);
12. North 80 degrees 00 minutes 00 seconds East a distance of 4.00 feet to an iron pin set (L6);
13. North 10 degrees 00 minutes 00 seconds West a distance of 35.03 feet to an iron pin set (L2);
14. North 80 degrees 00 minutes 00 seconds East a distance of 10.00 feet to a point (L1);
15. South 10 degrees 00 minutes 00 seconds East a distance of 71.03 feet to a point (L19);
16. South 80 degrees 00 minutes 00 seconds West a distance of 29.42 feet to a point (L20);
17. South 12 degrees 44 minutes 55 seconds West a distance of 67.30 feet to a point (L21);
18. South 31 degrees 02 minutes 23 seconds West a distance of 100.21 feet to a point (L22);
19. South 06 degrees 36 minutes 01 second West a distance of 84.45 feet to a point (L23);
20. South 09 degrees 52 minutes 57 seconds East a distance of 83.90 feet to a point (L24);
21. South 03 degrees 52 minutes 02 seconds West a distance of 314.70 feet to a point (L25);
22. South 36 degrees 11 minutes 12 seconds East a distance of 65.89 feet to a point (L26);
23. South 12 degrees 41 minutes 10 seconds West a distance of 312.09 feet to a point (L27);
24. South 01 degree 46 minutes 27 seconds East a distance of 313.07 feet (L28) to the place of beginning containing 27,895 square feet (0.640 acre) according to survey by Chad F. Craig P.S. #8195 for Seiler and Craig Surveying, Inc. on March 26, 2015, but subject to all right of ways and easements of record.

Bearings are based on an assumed meridian and are intended to be used for angular determination only.

Created by this office.
Owner: The Board of Education of The Dublin City School District
Parcel I.D. #273-009140
OR 23198D13

AS-BUILT SURVEY

PART OF LOTS 6 & 9, SECTION 2, TOWNSHIP 2, RANGE 19, UNITED STATES MILITARY LANDS CITY OF DUBLIN, FRANKLIN COUNTY

FOR: CROWN CASTLE

**SITE: N. RIVERSIDE/DUBLIN HS
BUN: 826150
ADDRESS: 4000 HARD ROAD
DUBLIN, OHIO 43016
FRANKLIN COUNTY**



3530 TORINGDON WAY, SUITE 300, CHARLOTTE, NC 28277

NATIONAL SURVEY SERVICES COORDINATION BY:

**G E O L I N E
SURVEYING, INC.**

13430 NW 104th Terrace, Suite A, Alachua, FL 32615
Office:(386) 418-0500 Fax:(386) 462-9986
WWW.GEOLINEINC.COM

SURVEY WORK PERFORMED BY:

SEILER AND CRAIG SURVEYING, INC.
270 Park Avenue West
Mansfield, OH 44902
Office:(419) 525-3644 Fax:(419) 525-3696
WWW.SEILERANDCRAIG.COM

DRAWN BY: NEK CHECKED BY: CFC JOB # 826150_2015

SURVEYOR'S NOTES

1. BEARINGS ARE BASED ON AN ASSUMED MERIDIAN, AND ARE INTENDED TO BE USED FOR ANGULAR DETERMINATION ONLY.
2. NO SUBSURFACE INVESTIGATION WAS PERFORMED TO LOCATE UNDERGROUND UTILITIES. UTILITIES SHOWN HEREON ARE LIMITED TO AND ARE PER OBSERVED EVIDENCE ONLY.
3. THIS SURVEY DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARENT PARCEL.
4. ALL VISIBLE TOWER EQUIPMENT AND IMPROVEMENTS ARE CONTAINED WITHIN THE DESCRIBED AREA, UNLESS OTHERWISE NOTED ON THIS PLAT.
5. PROPERTY LINES AND RIGHT OF WAYS ARE CALCULATED BY USING MONUMENTATION FOUND IN THE FIELD. (SHOWN ON PLAT)

SURVEYOR'S CERTIFICATION
I HEREBY CERTIFY TO CROWN CASTLE.

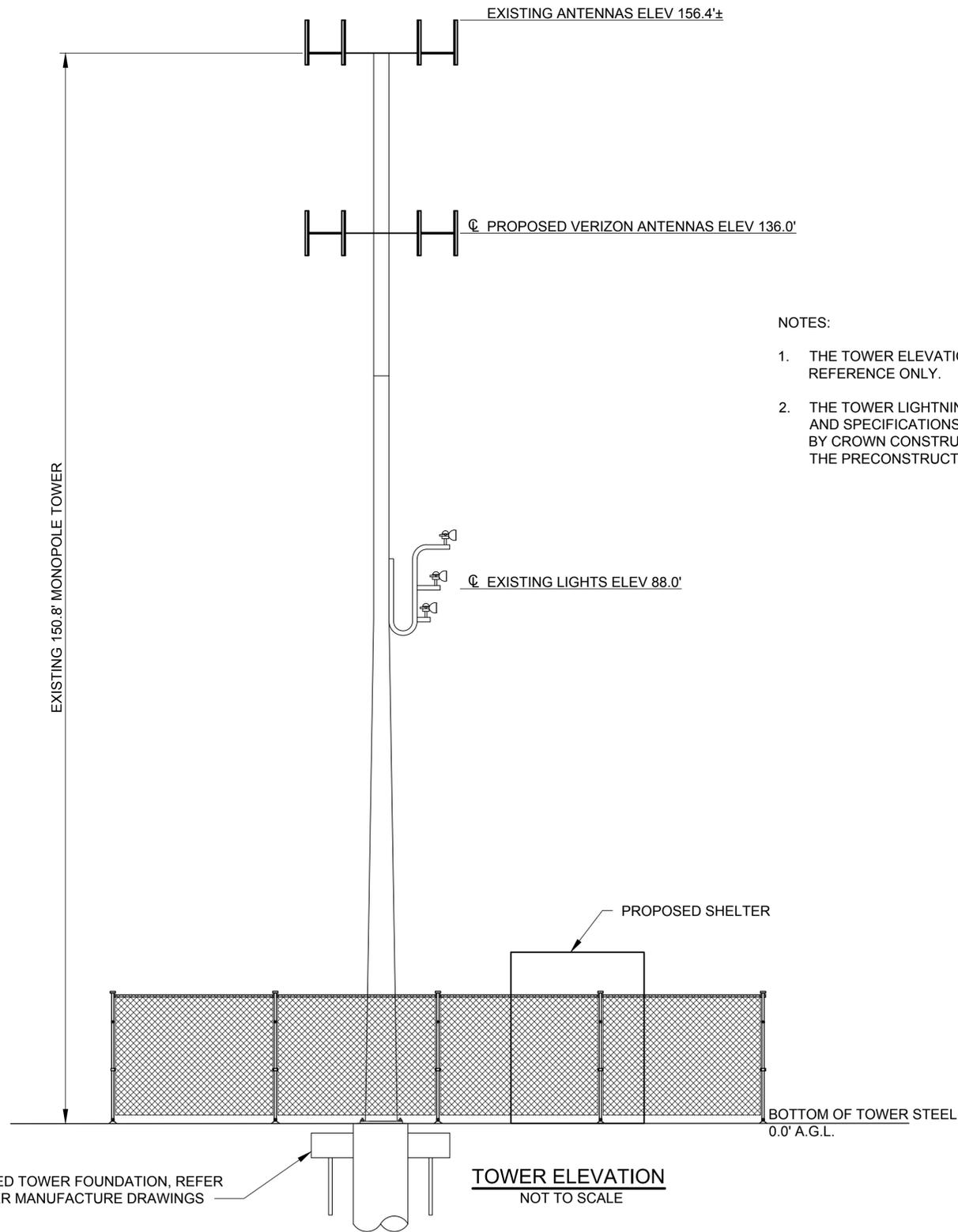
SEILER AND CRAIG SURVEYING, INC.

CHAD F. CRAIG
LAND SURVEYOR - OHIO # 8195

Date: 03/26/2015

Revision: # 0/0/2015





NOTES:

1. THE TOWER ELEVATION SHOWN IS FOR REFERENCE ONLY.
2. THE TOWER LIGHTNING DETAILS, HEIGHT, AND SPECIFICATIONS TO BE CONFIRMED BY CROWN CONSTRUCTION MANAGER AT THE PRECONSTRUCTION MEETING.

NOT USED

BOTTOM OF BASE PLATE IS EQUAL TO FAA DETERMINATION FILING ELEVATION BASED ON SURVEY

TOP OF PIER
FINISHED GRADE +12"
FINISHED GRADE

BOTTOM OF TOWER STEEL
0.0' A.G.L.

PROPOSED TOWER FOUNDATION, REFER TO TOWER MANUFACTURE DRAWINGS

TOWER BASE ELEVATION
NOT TO SCALE

BURGESS & NIPLE
Engineers ■ Architects ■ Planners

5085 REED ROAD
COLUMBUS, OH 43220
614-459-2050
FAX 614-451-1385

CROWN SITE NAME:
N. RIVERSIDE/DUBLIN HS
CROWN SITE NUMBER: 826150
4000 HARD ROAD
DUBLIN, OH 43017



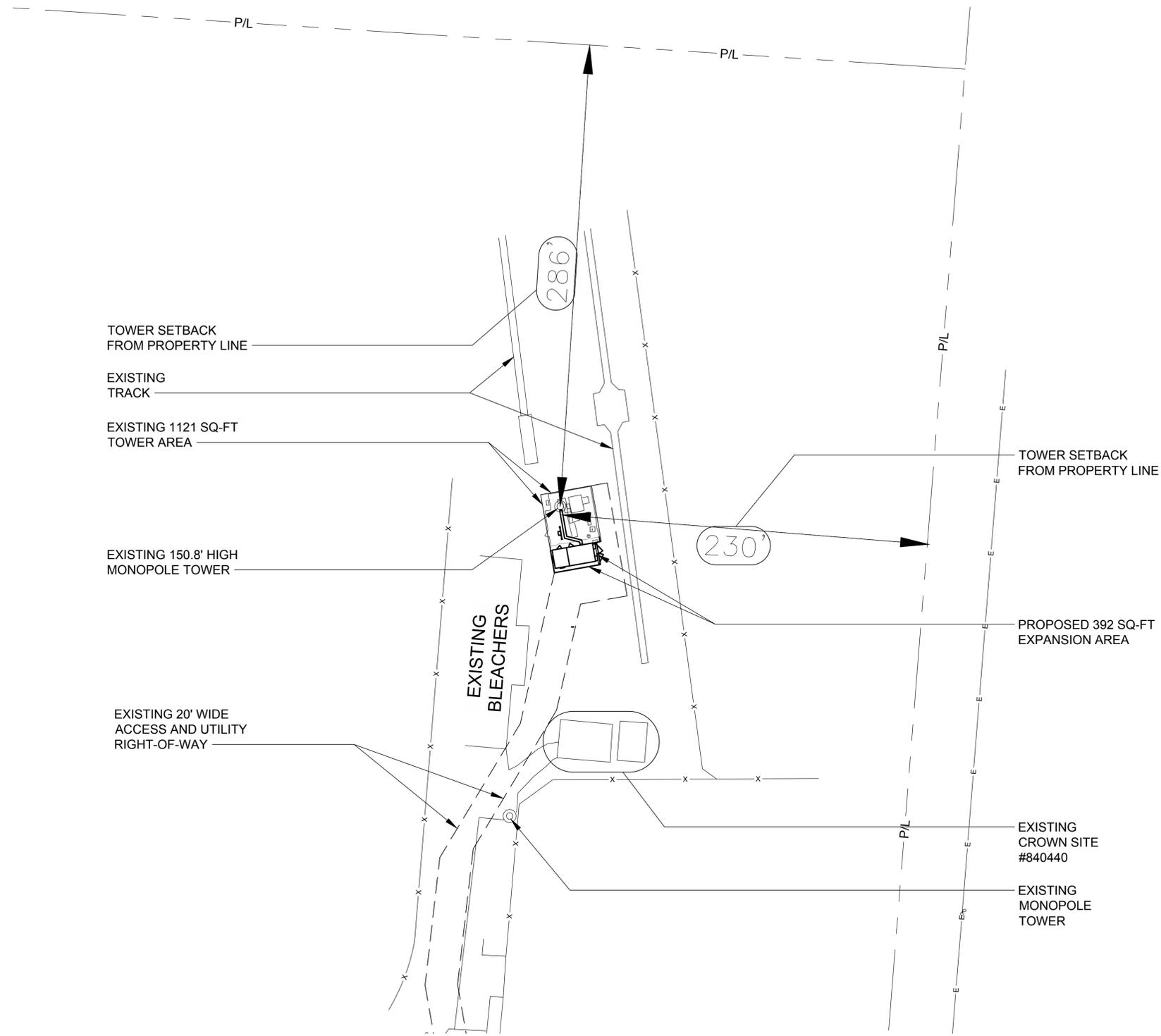
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DESIGNED BY:	DRAWN BY:	DATE:	SCALE:
GSH	JBH	08/31/2015	AS SHOWN



SHEET TITLE
TOWER
ELEVATION AND
DETAILS

SHEET NUMBER

A-1



NOTES:

- 1. CONTRACTOR SHALL REPAIR ALL CONSTRUCTION RELATED DISTURBED AREAS OUTSIDE OF THE COMPOUND.

OVERALL SITE PLAN



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 COLUMBUS, OH 43220
 614-459-2050
 FAX 614-451-1385

CROWN SITE NAME:
 N. RIVERSIDE/DUBLIN HS
CROWN SITE NUMBER: 826150
 4000 HARD ROAD
 DUBLIN, OH 43017



REV	DATE	DESCRIPTION
DESIGNED BY:	DRAWN BY:	DATE:
GSH	JBH	08/31/2015
SCALE:		AS SHOWN



SHEET TITLE

OVERALL SITE PLAN

SHEET NUMBER

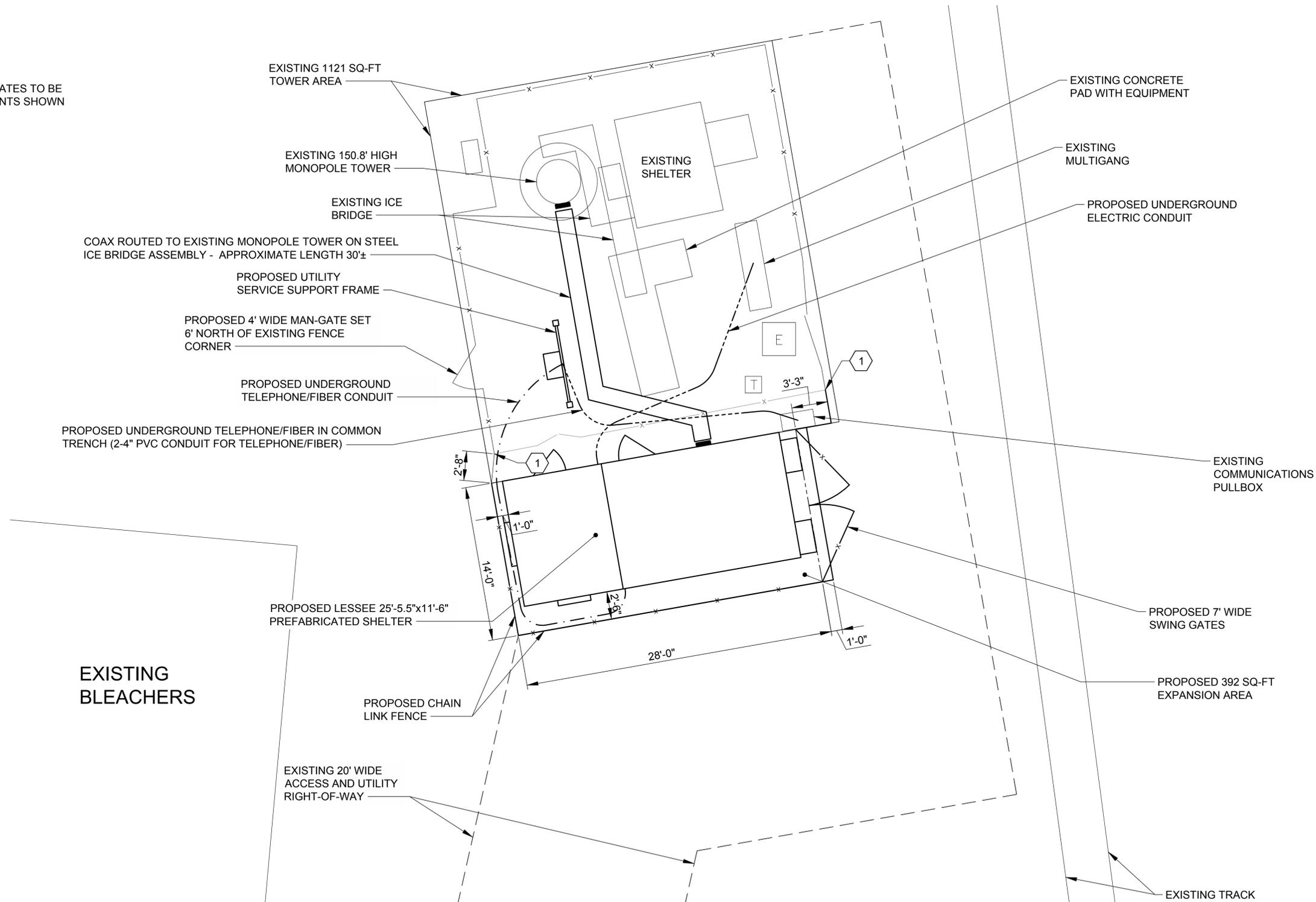
C-1

PLOTTED: 8/31/2015 10:30:43 AM

\\COL1\PROJECTS\PR5989\dublin_scoio_hsid\WC2_COMPOUND-PLAN.dwg 8/31/2015 10:11:26 AM Holliday, Scott

CODED NOTES:

- 1 EXISTING FENCE AND GATES TO BE REMOVED WITHIN EXTENTS SHOWN



NOTES:

- 1. THE PROPOSED EQUIPMENT SHELTER FOR THIS PROJECT IS 25'-5.5"x11'-6" STATE APPROVED SHELTER WITH AN INTERIOR DIESEL GENERATOR. FOR ADDITIONAL INFORMATION, SEE SHEET C-4 AND THE APPROVED EQUIPMENT SHELTER PLANS.

COMPOUND PLAN



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5085 REED ROAD
COLUMBUS, OH 43220
614-459-2050
FAX 614-451-1385

CROWN SITE NAME:
N. RIVERSIDE/DUBLIN HS
CROWN SITE NUMBER: 826150
4000 HARD ROAD
DUBLIN, OH 43017



REV	DATE	DESCRIPTION	SCALE
DESIGNED BY:	DRAWN BY:	DATE:	SCALE:
GSH	JBH	08/31/2015	AS SHOWN



SHEET TITLE

COMPOUND PLAN

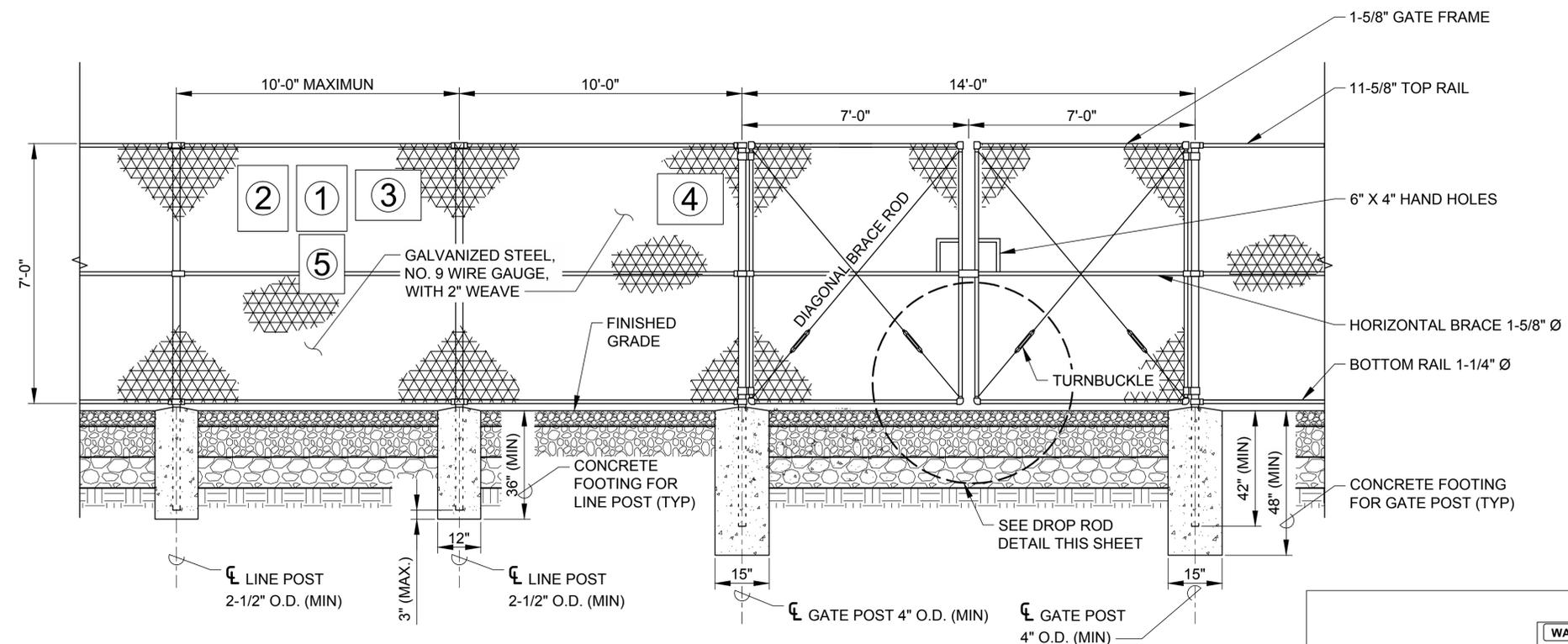
SHEET NUMBER

C-2

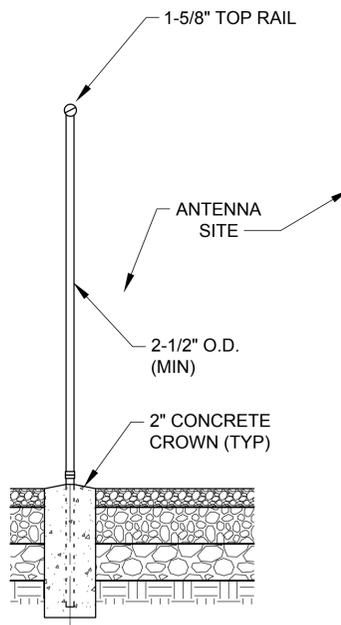
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FENCE NOTES:

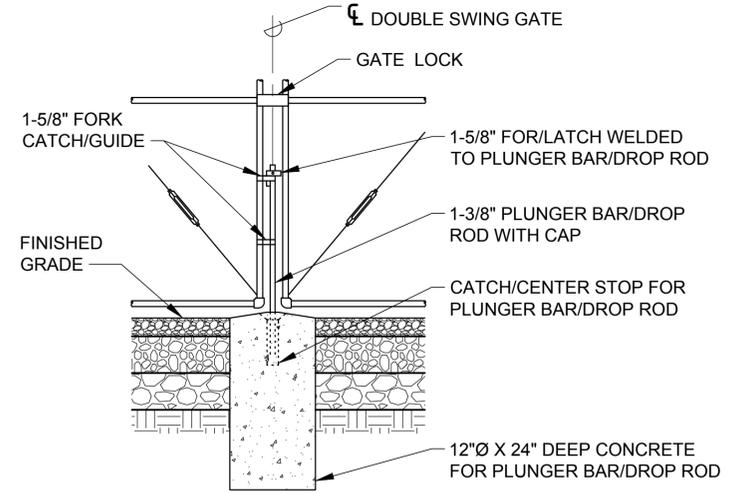
1. FENCING MATERIALS SHALL BE OF GALVANIZED STEEL.
2. POST, BRACES AND GATE FRAMES SHALL BE SCHEDULE 40 (STANDARD WEIGHT) PIPE. SIZES SPECIFIED ARE NOMINAL DIAMETER.
3. POSTS, CAPS AND OTHER NECESSARY FENCE FITTINGS SHALL BE AS MANUFACTURED BY THE FENCE MANUFACTURER OR APPROVED EQUAL.
4. POSTS SHALL BE SPACED EQUIDISTANT BUT NOT MORE THAN 10' O.C.
5. BOTTOM OF FENCE SHALL BE NO MORE THAN 2" ABOVE GRADE ANY SECTION.
6. THE CONTRACTOR SHALL PROVIDE AND INSTALL A CHAIN, 15" IN LENGTH. THE LOCK WILL BE PROVIDED BY SKYWAY TOWERS.



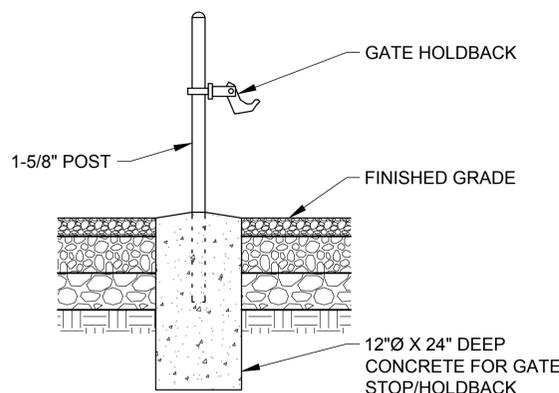
DOUBLE SWING GATE DETAIL AND TYPICAL FENCE ELEVATION
NOT TO SCALE



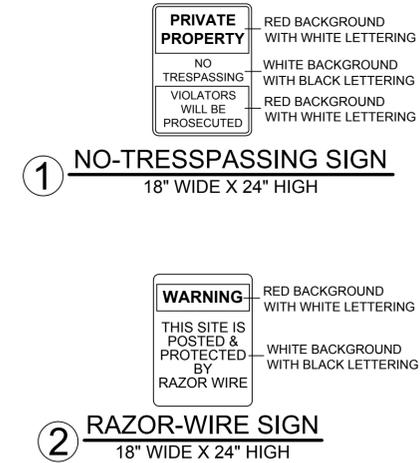
TYPICAL BARB WIRE DETAIL
NOT TO SCALE



DROP ROD DETAIL
NOT TO SCALE



GATE STOP/HOLDBACK DETAIL
NOT TO SCALE



TYPICAL SIGNS AND SPECIFICATIONS
NOT TO SCALE

WARNING RED BACKGROUND WITH WHITE LETTERING
WHITE BACKGROUND WITH BLACK LETTERING

4 CAUTION-HARD HAT CONSTRUCTION AREA AND TRIPPING HAZARDS
24" WIDE X 18" HIGH

3 MARKETING/ID SIGN WITH FCC# IN 2" LETTERING
24" WIDE X 18" HIGH

1 NO-TRESSPASSING SIGN
18" WIDE X 24" HIGH

2 RAZOR-WIRE SIGN
18" WIDE X 24" HIGH

5 NOTICE-RFE SIGN
12" WIDE X 18" HIGH

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CROWN SITE NAME:
N. RIVERSIDE/DUBLIN HS
CROWN SITE NUMBER: 826150
4000 HARD ROAD
DUBLIN, OH 43017



REV	DATE	DESCRIPTION	SCALE
DESIGNED BY:	DRAWN BY:	DATE:	SCALE:
GSH	JBH	08/31/2015	AS SHOWN



SHEET TITLE
FENCE AND SIGNAGE DETAILS

SHEET NUMBER
C-3

\\COL1\PROJECTS\PR53980\dublin_schoo_hsid\WC-3_FENCE-DETAIL.dwg 8/31/2015 10:15:51 AM Holliday, Scott

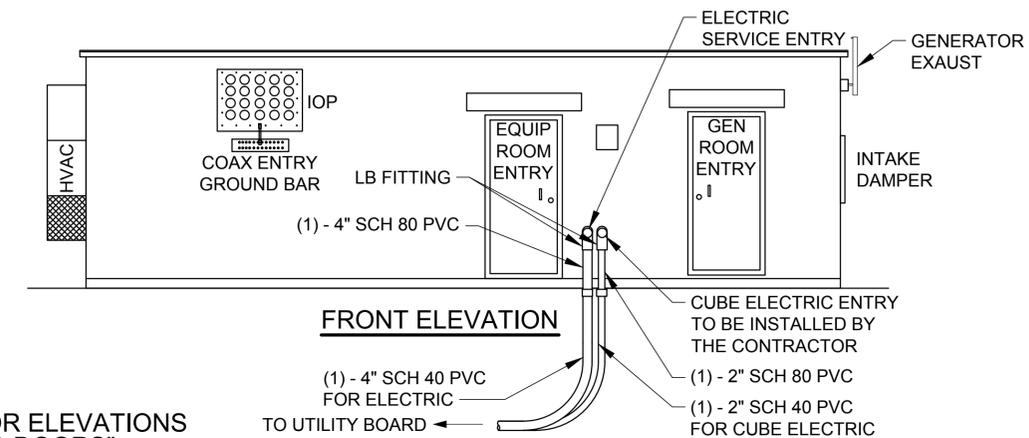
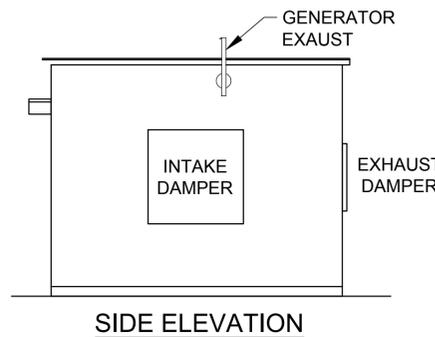
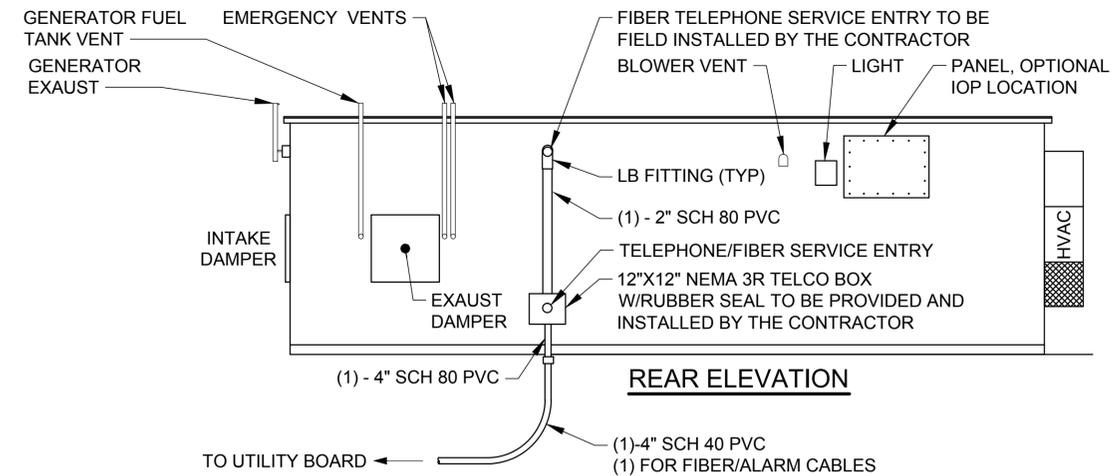
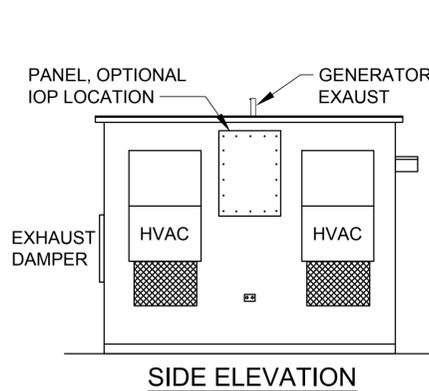
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DESIGN LOADS FROM THE APPROVED EQUIPMENT SHELTER PLANS:

ROOF LIVE LOAD (RL):	105 PSF
FLOOR LIVE LOAD (FLL):	150 PSF
CONCENTRATED DEAD LOAD AT BATTERY:	8,300 LBS (SEE SHEET 1-5 OF FIBREBOND DRAWINGS)
CONCENTRATED DEAD LOAD AT GENERATOR:	5,500 LBS (SEE SHEET 1-5 OF FIBREBOND DRAWINGS)
BASIC WIND SPEED (3 SECOND GUST) (V):	150 MPH
WIND EXPOSURE:	C
WIND IMPORTANCE FACTOR (I _w):	1.15
BUILDING CATEGORY:	II
SEISMIC SITE CLASS:	D
SEISMIC IMPORTANCE FACTOR (I _e):	1.25
SPECTRAL RESPONSE COEFFICIENTS (S _s)(S ₁):	1.00/0.60
SEISMIC DESIGN CATEGORY:	D

BASIC SEISMIC-FORCE-RESISTING SYSTEM = INTERMEDIATE PRECAST SHEAR WALLS

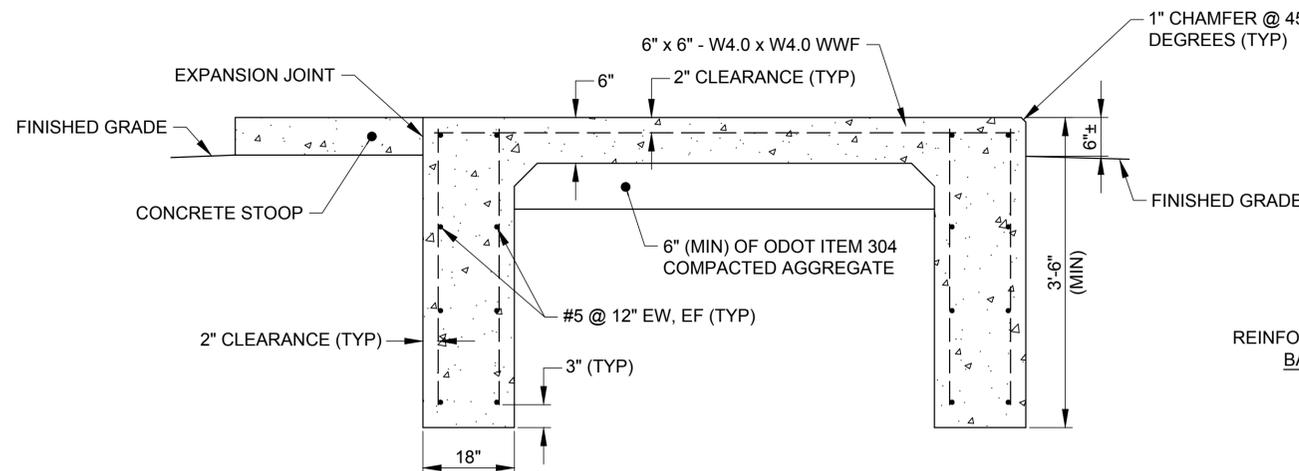
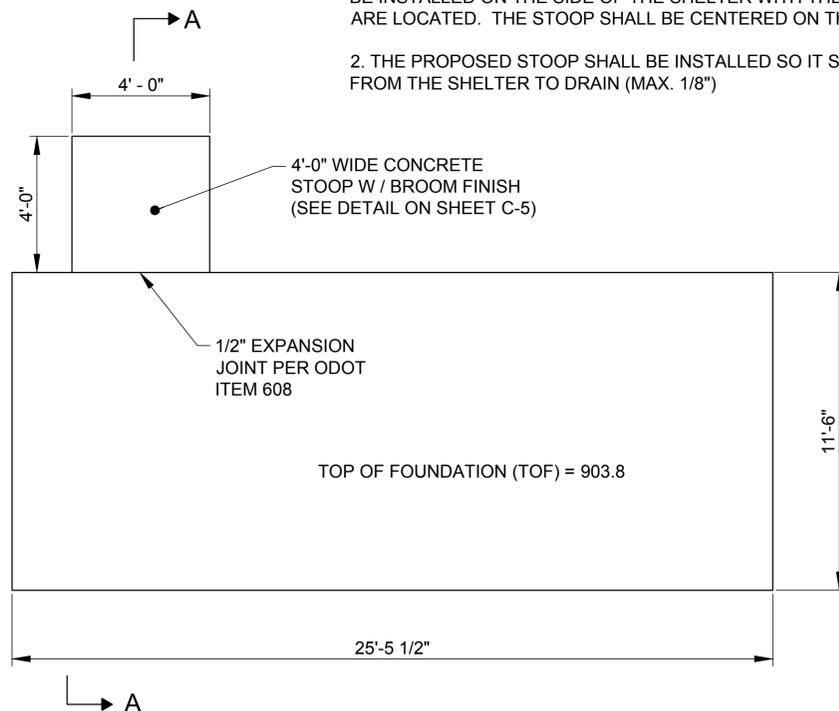
GROUND SNOW LOAD (P _G):	80 PSF
SNOW IMPORTANCE FACTOR (I _S):	1.1
SNOW EXPOSURE FACTOR (C _E):	1.1
THERMAL FACTOR (C _T):	1.2
FLAT ROOF SNOW LOAD (P _F):	81 PSF



**SHELTER EXTERIOR ELEVATIONS
"RIGHT HAND DOORS"**
NOT TO SCALE

NOTES:

1. THE LOCATION OF THE STOOP SHOWN BELOW IS GENERIC AN SHALL BE INSTALLED ON THE SIDE OF THE SHELTER WITH THE ENTRY DOORS ARE LOCATED. THE STOOP SHALL BE CENTERED ON THE DOOR.
2. THE PROPOSED STOOP SHALL BE INSTALLED SO IT SLOPES AWAY FROM THE SHELTER TO DRAIN (MAX. 1/8")



BAR SIZE	L _d	SPLICE
#4	14	20
#5	18	26
#6	23	31
#7	32	42

CHAMFER TOP CORNERS OF ALL FOUNDATIONS (1")

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CROWN SITE NAME:
N. RIVERSIDE/DUBLIN HS
CROWN SITE NUMBER: 826150
4000 HARD ROAD
DUBLIN, OH 43017



REV	DATE	DESCRIPTION
DESIGNED BY:	DRAWN BY:	DATE:
GSH	JBH	08/31/2015
SCALE:		AS SHOWN



SHEET TITLE
EQUIPMENT BUILDING PLAN

SHEET NUMBER

C-4

\\COL1\PROJECTS\PR53980\dublin_schoo_hsidw\c-4_EQUIP-BLDG-DETAIL.dwg 8/27/2015 1:50:31 PM Holliday, Scott

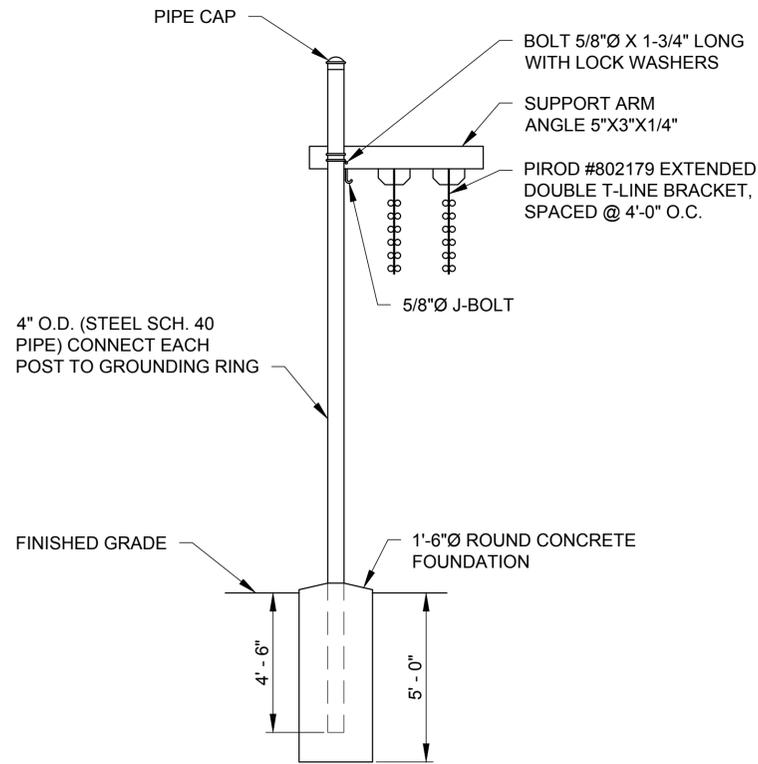
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BUILDING SET-UP SPECIFICATIONS

INSTALL THE FOLLOWING OWNER-FURNISHED ITEMS AS PART OF THE "EQUIPMENT SHELTER SET-UP":

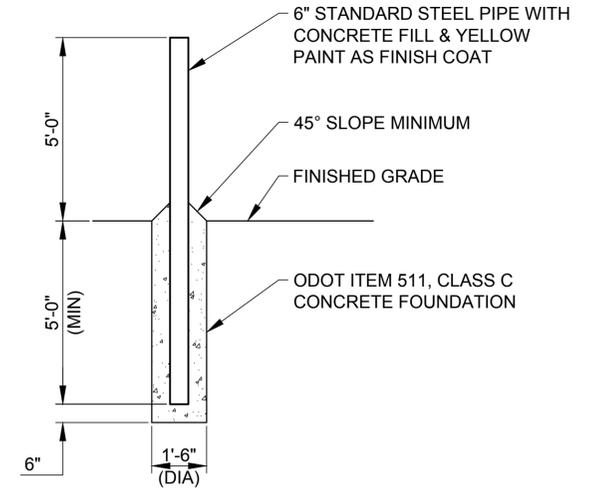
1. ANCHOR SHELTER TO CONCRETE PAD PER MANUFACTURER'S SPECIFICATIONS
2. INSTALL LIGHT FIXTURES
3. FRICTION PADS BETWEEN BOTTOM OF SHELTER AND CONCRETE PAD
4. BATTERIES FOR INTERIOR EMERGENCY LIGHTS
5. ANY ASSOCIATED CONDUITS
6. DOOR AWNINGS
7. GENERATOR MUFFLER AND HOODS

SHELTER SHALL RECEIVE A FINAL CLEANING AT A POINT IN CONSTRUCTION DESIGNATED BY OWNER/LESSEE. BOTH SHELTER AND RF EQUIPMENT SHALL BE CLEANED OF ANY DUST AND FLOORS SHALL BE THOROUGHLY CLEANED, THEN RECEIVE FOUR (4) COATS OF WAX.



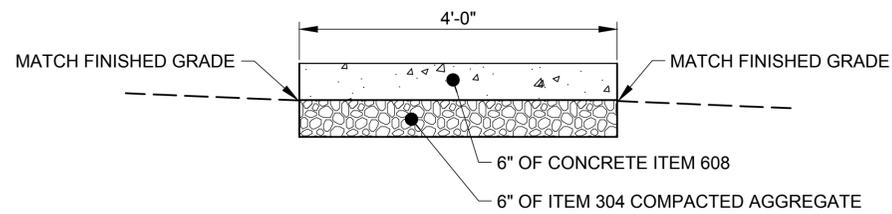
WAVEGUIDE/ICE BRIDGE DETAIL

NOT TO SCALE



BOLLARD DETAIL

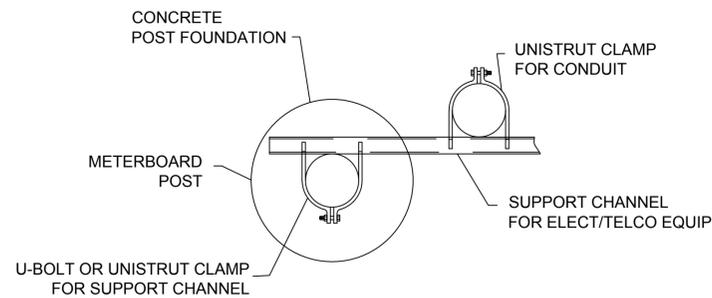
NOT TO SCALE



NOTE: ALL AGGREGATE SHALL BE COMPACTED PER ODOT ITEM 304.

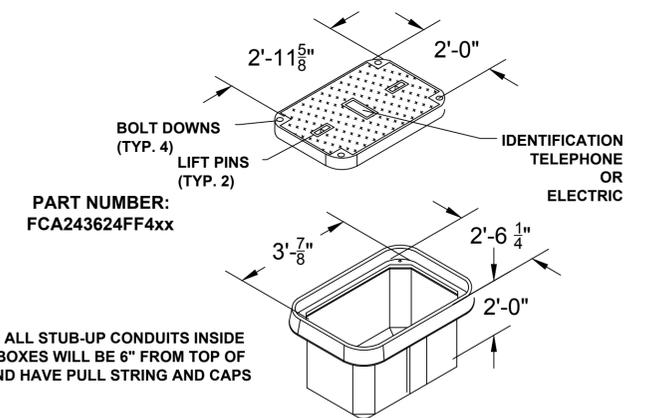
TYPICAL CONCRETE STOOP

NOT TO SCALE



UNISTRUT CLAMP DETAIL

NOT TO SCALE



PART NUMBER: FCA243624FF4xx

NOTE: ALL STUB-UP CONDUITS INSIDE PULL BOXES WILL BE 6" FROM TOP OF BOX AND HAVE PULL STRING AND CAPS

PULLBOX DETAIL

NOT TO SCALE

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CROWN SITE NUMBER: 826150
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DUBLIN, OH 43017



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SHEET TITLE
EQUIPMENT BUILDING NOTES AND DETAILS

SHEET NUMBER

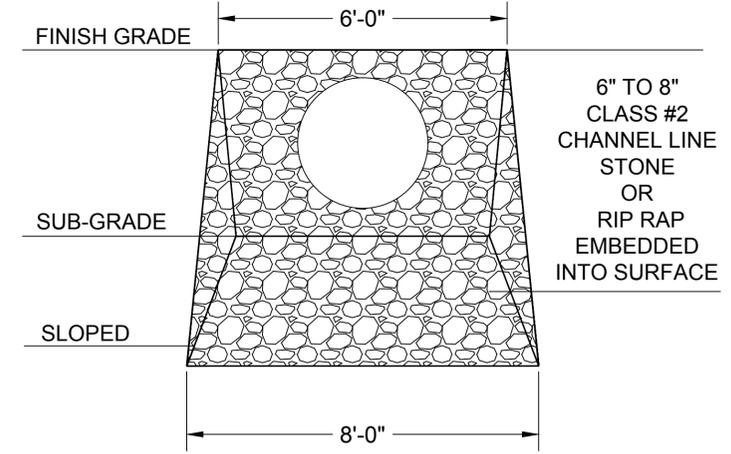
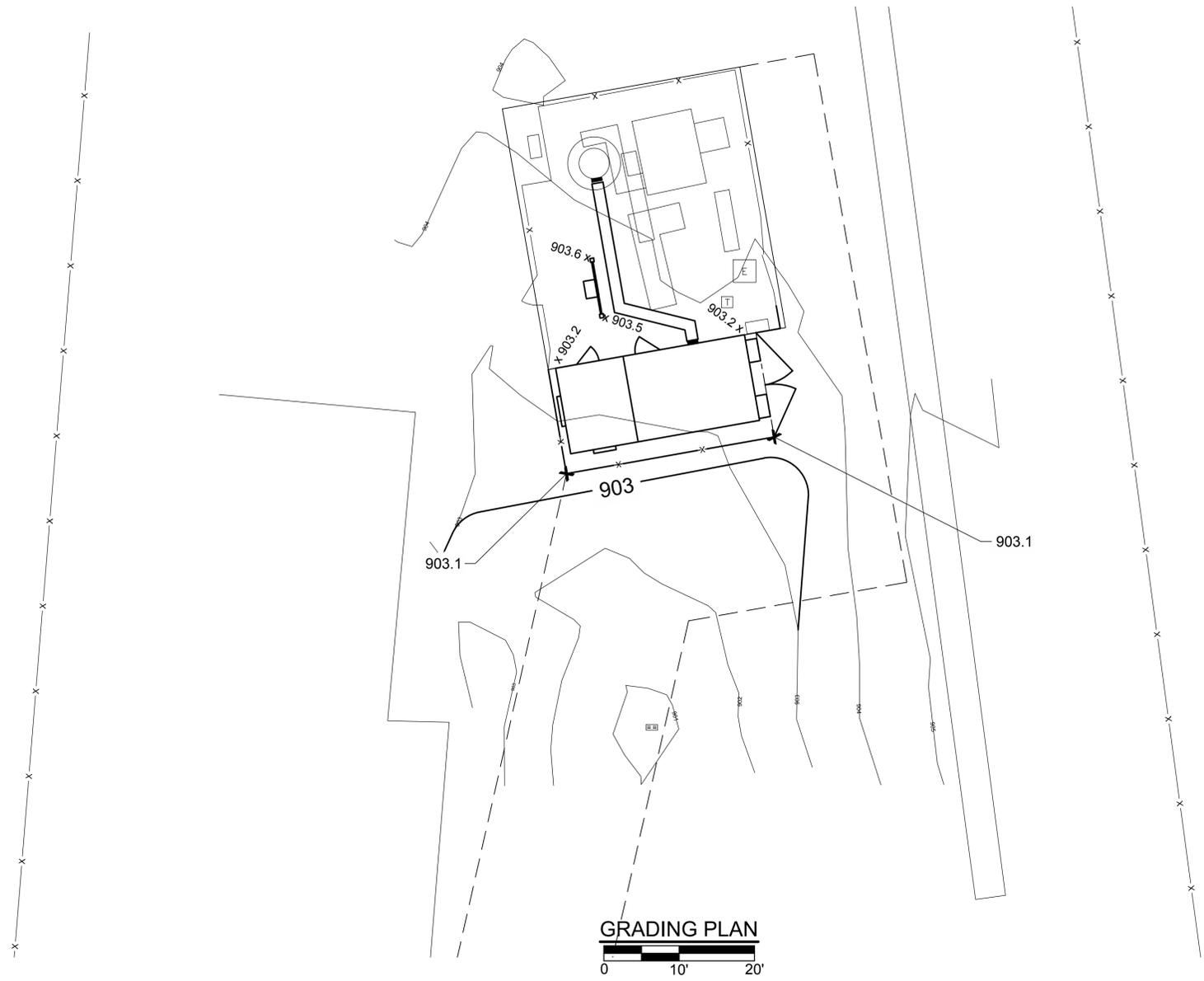
C-5

\\COL1\PROJECTS\PR3590\dublin_sctio_18\DWG\C-5_EQUIP-NOTES-STOOP-DETAIL.dwg 4/16/2015 2:03:55 PM Holliday, Scott

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LEGEND

- x 903.5 - DENOTES THE PROPOSED ELEVATIONS
- x EX. - DENOTES THE EXISTING ELEVATIONS
- 3:1 SLOPE MINIMUM



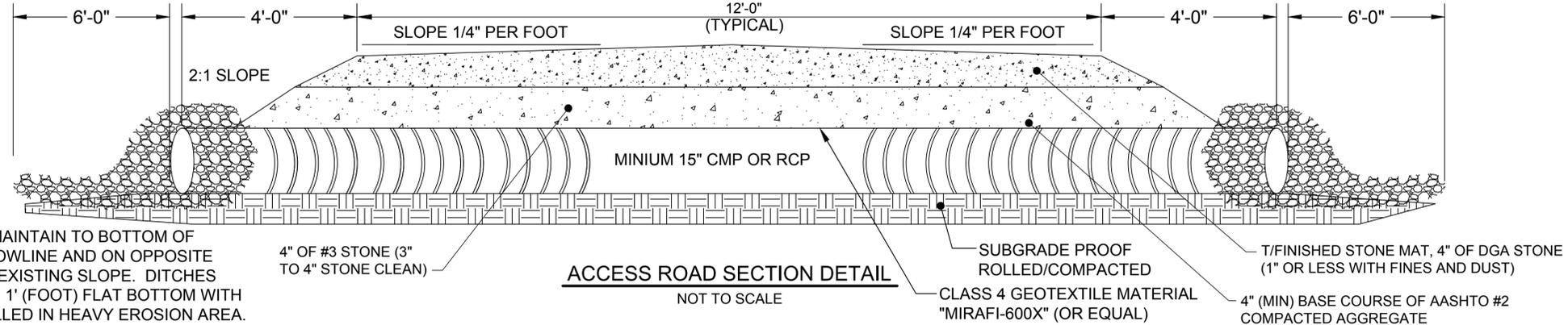
NOTE:
 -ALL ENTRANCE CULVERTS WILL MEET LOCAL DOT SPECIFICATION (WHERE APPLICABLE)
 -ALL CROSSDRAINS SHALL BE INSTALLED ON A 45° ANGLE WITH THE FALL OF THE GRADE.

CULVERT SECTION
NOT TO SCALE

NOTES:
 -USE OF SWALES AND/OR DRAINAGE DITCHES FOR PROPER WATER RUNOFF AS NEEDED.
 -AGGREGATE IS BASED ON STANDARD AASHTO UNLESS NOTED OTHERWISE.
 -2" CROWN IN CENTER OF ACCESS, UNLESS IN CURVES, THEN ACCESS SHOULD BE SLOPED TO INSIDE OF TURN / CURVE
 -PIPE SHALL BE AT A MINIMUM OF 4' LONGER THAN ACCESS ROAD WIDTH ON EACH SIDE FOR PROPER SHOULDERING.
 -ALL CROSSDRAINS SHALL BE INSTALLED ON A 45° ANGLE WITH THE FALL OF THE GRADE.
 -SUB-GRADE SHALL BE COMPACTED BY SHEEPS FOOT VIBRATOR OR RUBBER TIERED ROLLERS WEIGHING AT LEAST EIGHT TONS.
 -FINISH GRADE SHALL BE COMPACTED BY SMOOTH DRUM VIBRATOR ROLLERS WEIGHING AT LEAST EIGHT TONS.

NOTE: FILL MATERIAL
 ACCEPTABLE SELECT FILL SHALL BE IN ACCORDANCE WITH (THE STATE DEPARTMENT OF HIGHWAY AND PUBLIC TRANSPORTATION DEPARTMENT STANDARD SPECIFICATION) FOR THE STATE IN WHICH THE TOWER IS TO BE CONSTRUCTED.

GRADING PLAN
0 10' 20'



3 TO 1 SLOPE MAINTAIN TO BOTTOM OF DITCHLINE / FLOWLINE AND ON OPPOSITE SLOPE MATCH EXISTING SLOPE. DITCHES SHALL HAVE A 1' (FOOT) FLAT BOTTOM WITH RIP RAP INSTALLED IN HEAVY EROSION AREA.

ACCESS ROAD SECTION DETAIL
NOT TO SCALE

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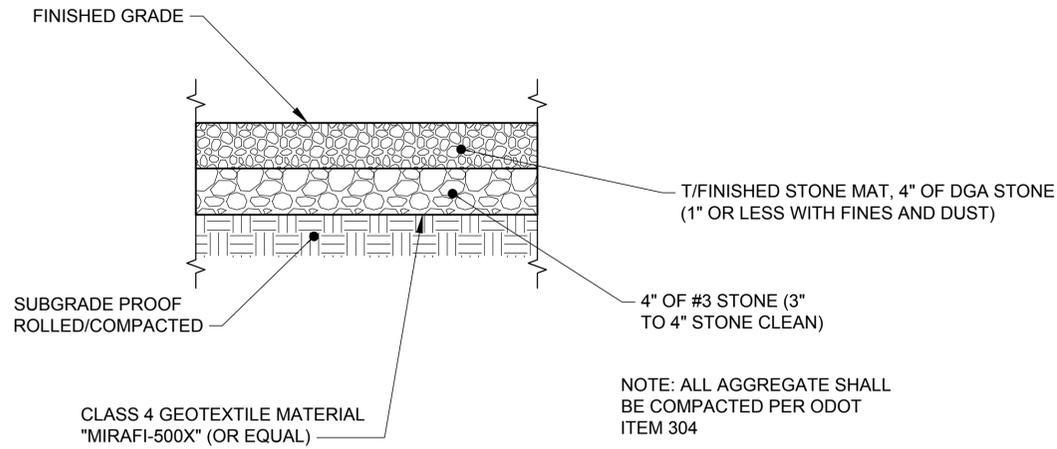


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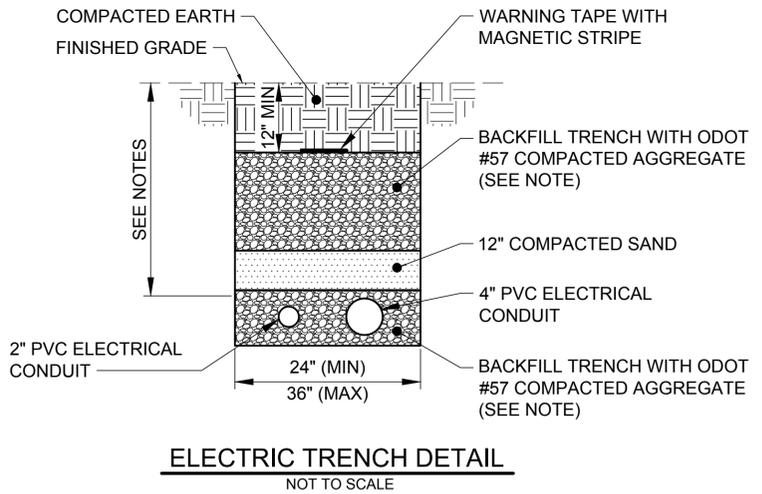
SHEET TITLE
CIVIL ENGINEERING PLAN
 SHEET NUMBER
C-6

I:\c01\projects\FR3390\dublin_scdto_hs\DWG\C-6_GRADING-PLAN.dwg 8/27/2015 2:30:50 PM Holliday, Scott

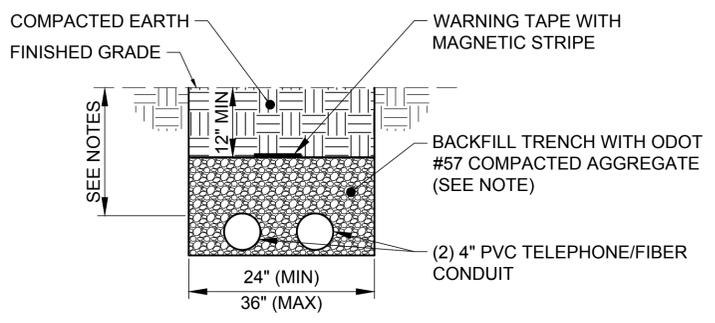


GRAVEL COMPOUND DETAIL
NOT TO SCALE

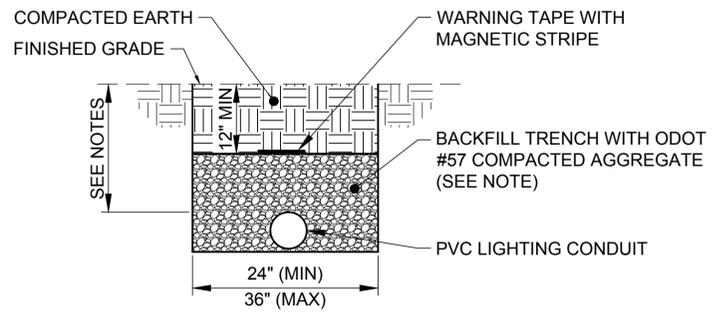
- NOTES:
1. MINIMUM COVER OF ELECTRICAL CONDUIT(S) SHALL BE 36".
 2. MINIMUM COVER OF LIGHTING CONDUIT(S) SHALL BE 30".
 3. MINIMUM COVER OF TELEPHONE/FIBER CONDUIT(S) SHALL BE 24".
 4. ALL CONDUITS ARE 4" SCH 40 PVC UNLESS OTHERWISE NOTED ON PLANS.
 5. ALL UTILITY TRENCHES WITHIN THE FENCED COMPOUND OR UNDER ANY PORTION OF A GRAVEL DRIVE AND/OR ROADWAY SHALL BE BACKFILLED WITH ODOT #57 COMPACTED AGGREGATE.
 6. ALL CONDUITS SHALL BE INSTALLED WITH A PULL STRING.
 7. ONE OF THE TELEPHONE/FIBER CONDUITS SHALL BE INSTALLED WITH (2) 1 1/4" PLASTIC INNER DUCTS WITH PULL STRINGS.
 8. ALL CONDUITS SHALL BE CLEAN INSIDE WITH NO DIRT OF ANY OTHER OBSTRUCTIONS.
 9. ALL BENDS MUST SWEEP 36" RADIUS AND MAXIMUM OF 3 SWEEPS. ANY ADDITIONAL SWEEPS MUST BE APPROVED BY THE POWER COMPANY.
 10. THE CONTRACTOR SHALL VERIFY AND FOLLOW THE POWER COMPANY SPECIFICATIONS FOR INSTALLATIONS INVOLVING PAD MOUNTED TRANSFORMERS, UTILITY POLE, ETC...



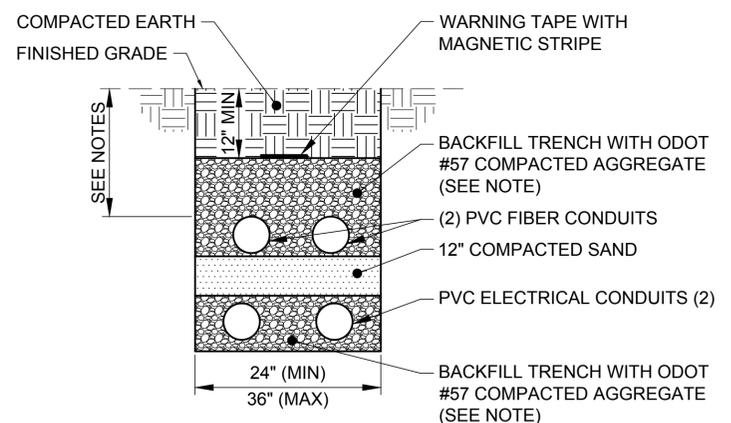
ELECTRIC TRENCH DETAIL
NOT TO SCALE



TELEPHONE TRENCH DETAIL
NOT TO SCALE



LIGHTING TRENCH DETAIL
NOT TO SCALE



COMBINED TRENCH DETAIL
NOT TO SCALE

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SHEET TITLE

CIVIL ENGINEERING DETAILS

SHEET NUMBER

C-7

GENERAL NOTES

- ALL MATERIALS AND EQUIPMENT FOR WHICH UNDERWRITERS LABORATORIES EXAMINATION SERVICE IS AVAILABLE SHALL BE INSPECTED, TESTED, AND BEAR THE UL LABEL.
- EQUIPMENT ENCLOSURES SHALL BE OUTDOOR RATED AND UL LISTED.
- THE ELECTRICAL PLANS ARE DIAGRAMMATIC AND ARE ONLY TO INDICATE THE APPROXIMATE LOCATIONS OF SERVICE ENTRANCES, THE GROUNDING SYSTEM, AND CONNECTIONS TO THE TOWER. THE EXACT LOCATIONS AND ROUGH-IN DIMENSIONS FOR ALL WORK AND EQUIPMENT SHALL BE OBTAINED FROM THE VERIZON WIRELESS FIELD REPRESENTATIVES AND/OR OWNER AS REQUIRED. SHOULD THE CONTRACTOR FAIL TO PROPERLY ASCERTAIN SUCH FIELD LOCATIONS OR DIMENSIONS, THEY SHALL CHANGE SUCH WORK AT THEIR OWN EXPENSE WHEN SO DIRECTED BY THE VERIZON WIRELESS FIELD REPRESENTATIVES AND/OR OWNER. THE FIELD REPRESENTATIVE RESERVES THE RIGHT TO MAKE MINOR CHANGES IN THE LOCATION OF ANY ELECTRICAL WORK OR EQUIPMENT PRIOR TO ROUGH-IN WITH NO ADDITIONAL COST.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL POWER WIRING, CONTROL WIRING, OUTLETS, CONNECTIONS, ETC... AS REQUIRED FOR ALL MECHANICAL EQUIPMENT.
- THE CONTRACTOR SHALL RECORD ALL FIELD CHANGES IN HIS WORK AS THE PROJECT PROGRESSES. AT THE COMPLETION OF CONSTRUCTION, THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE OWNER WITH A "RECORD" SET OF DRAWINGS INDICATING ALL CHANGES.
- THE CONTRACTOR SHALL COORDINATE THE ELECTRICAL SERVICE WITH THE VERIZON WIRELESS FIELD REPRESENTATIVES AND/OR OWNER AND THE ELECTRIC COMPANY AND PROVIDE ALL WORK (MATERIAL AND LABOR) NECESSARY TO COMPLETE THE SERVICE, INCLUDING THE FINAL CONNECTIONS TO THE LINE SIDE OF THE MAIN SWITCH.
- THE CONTRACTOR SHALL COORDINATE TELEPHONE SERVICE WITH THE VERIZON WIRELESS FIELD REPRESENTATIVES AND/OR OWNER AND THE TELEPHONE COMPANY AND PROVIDE ALL WORK (MATERIALS AND LABOR) NECESSARY FOR A COMPLETE AND OPERATING TELEPHONE SERVICE.
- ALL MATERIALS AND WORKMANSHIP SHALL BE WARRANTED FOR ONE (1) YEAR FROM DATE OF ACCEPTANCE.
- THE CONTRACTOR SHALL MAINTAIN A CLEAN SITE AT ALL TIMES. UPON COMPLETION OF THE PROJECT, SHALL REMOVE ALL OF TOOLS, EQUIPMENT AND DEBRIS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING THE HOOK-UP OF THE OWNER PROVIDED RECTIFIER BAYS.
- PROVIDE A MINIMUM 36" WORK CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS/SERVICE EQUIPMENT.
- THE SAFETY AND DISCONNECT SWITCHES ARE PROVIDED AS PART OF THE PRE-MANUFACTURED SHELTER BUILDING PACKAGE. THE CONTRACTOR SHALL INSTALL SERVICE THRU METER AND DISCONNECT AS REQUIRED TO ENERGIZE THE BUILDING.
- THE CONTRACTOR SHALL VERIFY POWER AND VOLTAGE AVAILABLE ON SITE PRIOR TO ORDERING EQUIPMENT.

SCOPE OF WORK

- THE ELECTRICAL SCOPE OF WORK SHALL INCLUDE ALL LABOR AND MATERIALS REQUIRED FOR FURNISHING, INSTALLING, AND TESTING, COMPLETE AND READY FOR OPERATION. ELECTRICAL WORK SHALL INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING:
 - ELECTRIC SERVICE
 - TELEPHONE SERVICE
 - CONDUCTORS
 - GROUNDING
 - CONDUITS/RACEWAYS

CODES, PERMITS, AND FEES

- ALL REQUIRED PERMITS, LICENSES, INSPECTIONS, BONDS, AND APPROVALS SHALL BE SECURED AND ALL FEES FOR THE SAME PAID BY THE CONTRACTOR. THIS INCLUDES BUT NOT LIMITED TO ANY PERMITS AND FEES ASSOCIATED WITH ALARMS, TELEPHONE, OR OTHER COMMUNICATION SYSTEMS.

- THE INSTALLATION SHALL COMPLY WITH ALL APPLICABLE CODES: NATIONAL, STATE, LOCAL, AND THE DESIGN, PERFORMANCE CHARACTERISTICS, AND METHODS OF CONSTRUCTION OF ALL ITEMS AND EQUIPMENT, SHALL BE IN ACCORDANCE WITH THE LATEST ISSUE OF THE VARIOUS APPLICABLE STANDARD SPECIFICATIONS OF THE FOLLOWING RECOGNIZED AUTHORITIES:
 - NEC - NATIONAL ELECTRICAL CODE
 - ANCI - AMERICAN NATIONAL STANDARDS INSTITUTE
 - IEEE - INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
 - ASTM - AMERICAN SOCIETY FOR TESTING MATERIALS
 - NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
 - UL - UNDERWRITERS LABORATORIES, INC.
- THE CONTRACTOR SHALL COMPLETE ALL WORK ASSOCIATED WITH THE ELECTRICAL INSTALLATION IN ACCORDANCE WITH THE RULES OF THE LOCAL ELECTRIC COMPANY.

CUTTING, PATCHING AND EXCAVATION

- THE CONTRACTOR SHALL PERFORM ALL CUTTING, CHASING, OR CHANNELING AND PATCHING REQUIRED FOR ANY WORK UNDER THIS DIVISION. CARE SHALL BE TAKEN NOT TO CUT STRUCTURAL PORTIONS OF THE BUILDING. IF IN DOUBT, THE VERIZON WIRELESS FIELD REPRESENTATIVES AND/OR OWNER SHALL BE CONSULTED PRIOR TO CUTTING.

CONDUITS/RACEWAYS

- ALL CONDUCTORS SHALL BE INSTALLED IN CONDUIT.
- ALL CONDUITS SHALL BE SCHEDULE 40 PVC, UNLESS NOTED OTHERWISE.
- ALL CONDUIT RUNS SHALL USE APPROVED COUPLINGS AND CONNECTORS. PROVIDE INSULATED BUSHING FOR ALL CONDUIT TERMINATIONS. ALL CONDUIT RUNS IN A WET LOCATION SHALL HAVE WATERPROOF FITTINGS.
- PROVIDE SUPPORTS FOR ALL CONDUITS IN ACCORDANCE WITH NEC.
- ALL CONDUITS SHALL BE SIZED AS REQUIRED BY NEC, UNLESS NOTED OTHERWISE.
- BURIAL DEPTH OF ALL CONDUITS/RACEWAYS SHALL BE IN COMPLIANCE WITH NEC, UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL FURNISH AND INSTALL A 200# TEST PULL TAPE IN ALL CONDUITS.
- ALL SPARE CONDUITS SHALL BE INSTALLED WITH A 200# TEST PULL TAPE FOR FUTURE USE. STUB BOTH ENDS OF THE SPARE CONDUIT UP AT LEAST 12" ABOVE THE FINISHED GRADE. INSTALL CAPS AT BOTH ENDS.
- ALL CONDUCTORS LOCATED ABOVE GRADE, BENEATH A SHELTER BUILDING, OR IN POURED CONCRETE, SHALL BE INSTALLED IN A COMPLETE CONDUIT SYSTEM. THE MINIMUM CONDUIT SIZE SHALL BE 1/2".

GROUNDING

SEE SHEET E-3.

CONDUCTORS

ALL CONDUCTORS SHALL BE UL LISTED AND SHALL BE PROVIDED AND INSTALLED AS FOLLOWS:

- THE CONDUCTORS SHALL BE COPPER WITH 600V INSTALLATION. CONDUCTOR SIZES #14 THROUGH #10 SHALL BE THHN/THWN. CONDUCTOR SIZES #8 AND LARGER SHALL BE THHN/THWN OR XHHW.
- ALL CONDUCTOR SIZES #8 AND LARGER SHALL BE STRANDED. CONDUCTOR SIZES #10 AND SMALLER SHALL BE SOLID OR STRANDED.
- ALUMINUM CONDUCTORS WILL NOT BE PERMITTED.
- CONNECTIONS FOR CONDUCTOR SIZES #8 OR LARGER SHALL BE BY THE USE OF A STEEL CRIMP-ON SLEEVES WITH NYLON INSULATOR.

- CONNECTIONS FOR CONDUCTOR SIZES #10 AND SMALLER SHALL BE BY TWISTING TIGHT AND INSTALLING INSULATED PRESSURE OR WIRE NUT CONNECTIONS.
- ALL CONDUCTORS SHALL BE COLOR CODED IN ACCORDANCE WITH NEC.
- THE RACEWAY SYSTEM SHALL BE COMPLETE BEFORE INSTALLING CONDUCTORS.

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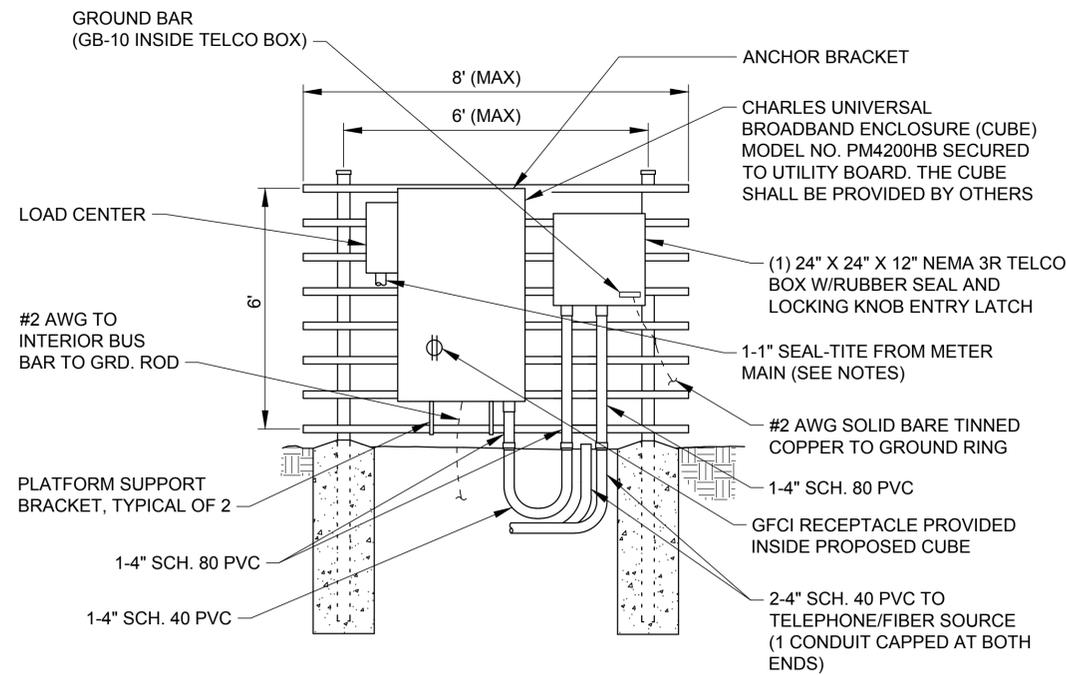


SHEET TITLE
ELECTRICAL NOTES

SHEET NUMBER

E-1

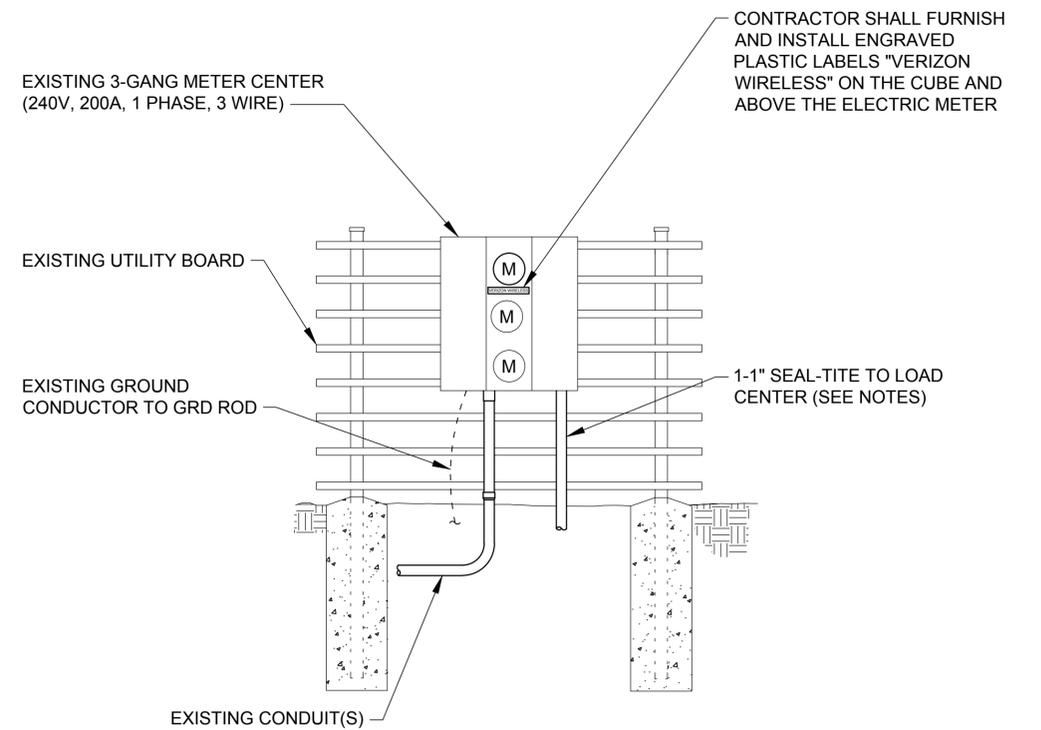
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UTILITY BOARD DETAIL, REAR VIEW
NOT TO SCALE

NOTES:

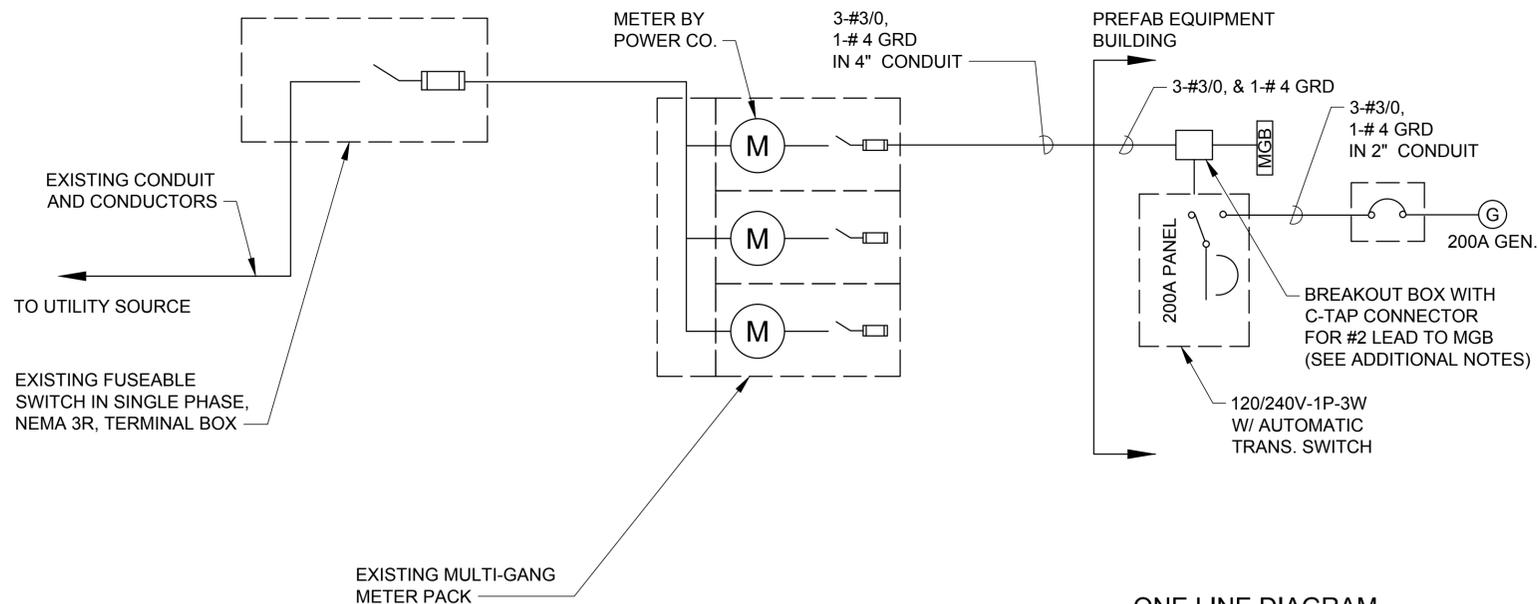
1. THE LOCATION OF THE PROPOSED UTILITY BOARD SHALL BE LOCATED PER THE SITE PLAN OR AS APPROVED BY THE VERIZON WIRELESS FIELD REPRESENTATIVES AND/OR OWNER.
2. MAXIMUM WEIGHT OF THE FIBER CUBE SHALL NOT EXCEED 500 LBS.
3. THE CUBE SHALL BE CENTERED BOTH HORIZONTALLY AND VERTICALLY ON THE BACKBOARD.
4. CONTRACTOR SHALL VERIFY THE LOCATION OF THE KNOCKOUTS PRIOR TO INSTALLING THE UNDERGROUND CONDUITS.
5. UNLESS NOTED OTHERWISE, THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL MATERIALS SHOWN ON THIS DRAWING INCLUDING BUT NOT LIMITED TO THE BACKBOARD COMPONENTS, CUBE, GROUNDING, ELECTRICAL CONDUCTORS, AND THE CONDUITS (SCH. 40 PVC, ETC.).
6. THE CONTRACTOR SHALL EXTEND A 2" CONDUIT AND CONDUCTORS FROM THE EXISTING GANG METER TO THE LOAD CENTER LOCATED ON THE CUBE. THE POWER REQUIREMENTS FOR THE CUBE IS A 60 AMP CIRCUIT. THE CONDUCTORS FOR THE 60 AMP CIRCUIT SHALL BE (3) #4 AWG, (1) #8 GRD. FOR RUNS GREATER THAN 120', THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR UPGRADED CONDUCTOR SIZE.
7. THE CUBE SHALL BE CONNECTED TO THE UNISTRUT MEMBERS PER MANUFACTURES SPECIFICATIONS.
8. ONCE THE CUBE IS INSTALLED ON THE UTILITY BOARD AND HAS PERMANENT ELECTRIC, THE CONTRACTOR SHALL INSTALL THE BATTERIES INSIDE THE CUBE.



EXISTING UTILITY BOARD DETAIL
NOT TO SCALE

NOTES:

1. FOR POWER RUNS GREATER THAN 150', THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR UPGRADED CONDUCTOR SIZE.
2. BREAKOUT BOX - CONNECT #6 BONDING STRAP FROM BOTH SIDES OF THE JUNCTION BOX TO THE CONDUIT.
3. BREAKOUT BOX - CONNECT #6 BONDING STRAP FROM 3" CONDUIT AT THE JUNCTION BOX TO THE HALO GROUND RING LOCATED WITHIN THE GENERATOR ROOM.



ONE LINE DIAGRAM
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SHEET TITLE
**PERMANENT
UTILITY DETAILS
AND ONE-LINE
DIAGRAM**

SHEET NUMBER
E-2

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GROUNDING KEY

SBTC = SOLID BARE TINNED COPPER

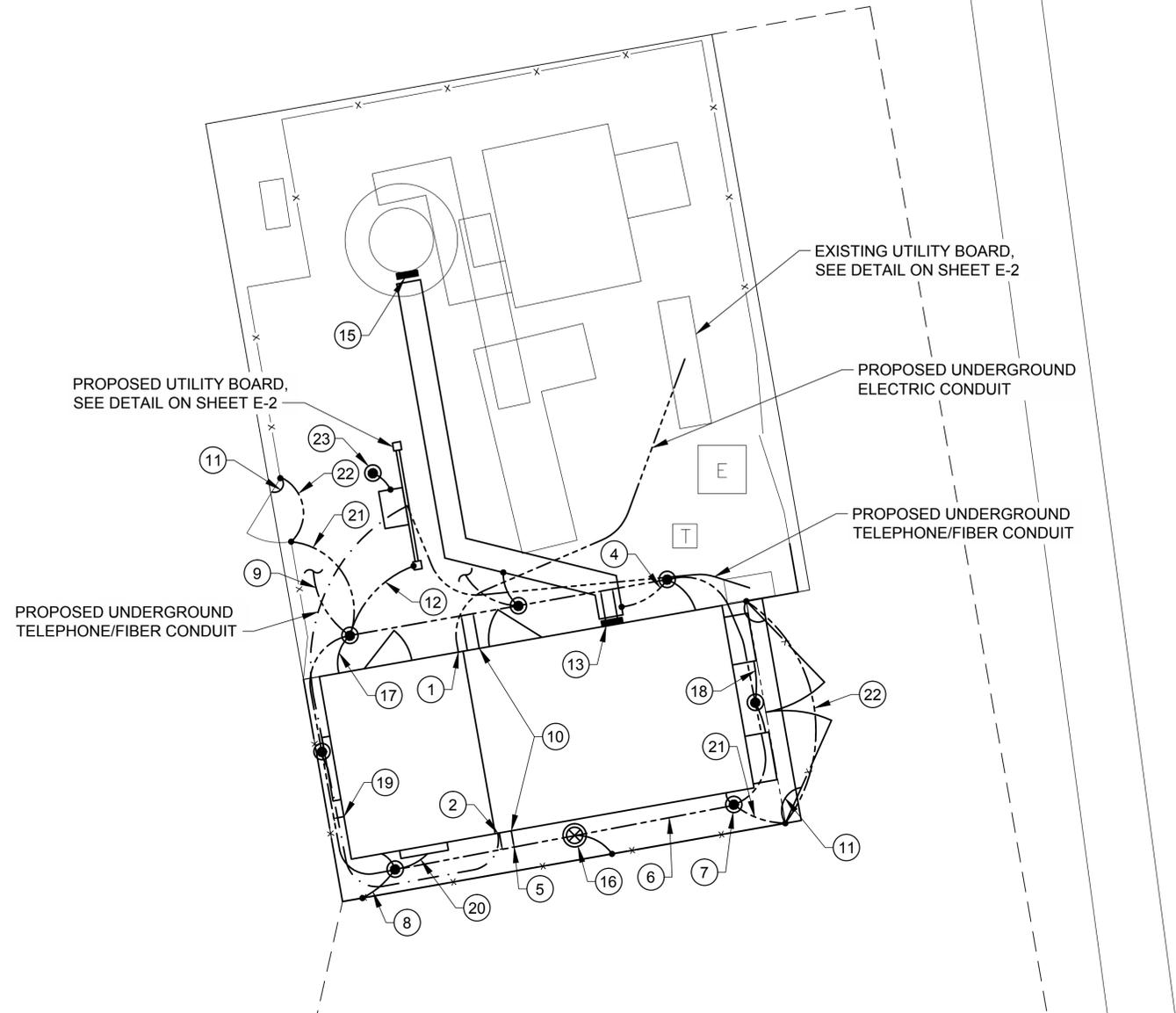
⊙ GROUND ROD (TYP - SEE 7) ⊗ TEST WELL (TYP - SEE DETAIL SHEET E-4)

- 1 ELECTRIC SERVICE ENTRANCE, 3 - #3/O AWG & #4 G. IN 4" SCH 40 PVC
- 2 TELEPHONE/FIBER SERVICE ENTRANCE, 4" SCH 40 PVC
- 3 NOT USED
- 4 GROUND EACH PROPOSED ICE BRIDGE POST TO NEAREST GROUND RING
- 5 CADWELD TEE TAP, TYP.
- 6 SHELTER GROUND RING - #2 AWG SBTC GROUND WIRE, 30" BFG & 24" FROM SHELTER FOUNDATION (TYP)
- 7 3/4" X 10' - 0" GALV. STEEL GROUND ROD, DRIVEN 2' - 6" BFG. SPACED AT 10'-0" MIN AND 15'-0" MAX
- 8 #2 AWG SBTC GROUND WIRE @ 30" BFG CADWELDED TO FENCE POST (TYP 3 LOCATIONS)
- 9 BOND PROPOSED SHELTER GROUND RING TO TOWER GROUND RING (TYP. 2 LOCATIONS)
- 10 MASTER GROUND BUS (MGB) GROUNDED TO GROUND RING WITH (2) RUNS OF #2 AWG SBTC GROUND WIRE, 1 TOP AND 1 BOTTOM
- 11 1'-0" FLEXIBLE STRAPPING BETWEEN GATE POST AND GATE. THE STRAPPING SHALL BE MECH. COMPRESSION CRIMP STYLE LUGS, THRU-BOLTED TO BOTH LOCATIONS. (TYP. BOTH GATE POSTS)
- 12 PROPOSED UTILITY BOARD GROUNDED TO SHELTER GROUND RING
- 13 GROUND EXTERIOR BUS BAR TO GROUND RING WITH (2) RUNS OF #2 AWG SBTC GROUND WIRE AT COAX I/O PORT LOCATION IN (2) 3/4" SCH 40 PVC CONDUITS ATTACHED TO THE SHELTER
- 14 NOT USED
- 15 TOWER BUS BAR GROUNDED TO TOWER GROUND RING WITH (2) - #2 AWG SBTC GROUND WIRE IN (2) 3/4" SCH 40 PVC CONDUITS ATTACHED TO THE TOWER BRACING
- 16 PROPOSED TEST WELL
- 17 SHELTER GROUNDED TO GROUND RING WITH #2 AWG SBTC (TYP OF 6 LOCATIONS) IN 3/4" SCH 40 PVC CONDUITS ATTACHED TO THE SHELTER
- 18 HVAC GROUNDED TO GROUND RING WITH #2 AWG SBTC (TYP OF 2 LOCATIONS) IN (2) 3/4" SCH 40 PVC CONDUITS ATTACHED TO THE SHELTER
- 19 GENERATOR EXHAUST STACK TO BE GROUNDED TO SHELTER GROUND RING WITH (1) RUN OF #2 AWG SBTC WIRE IN 3/4" SCH 40 PVC CONDUIT ATTACHED TO SHELTER

- 20 GENERATOR HOODS & GENERATOR RECEPTACLE, IF METAL, TO BE GROUNDED TO SHELTER GROUND RING WITH (1) RUN EA. OF #2 AWG SBTC WIRE IN 3/4" SCH 40 PVC CONDUIT ATTACHED TO THE SHELTER
- 21 PROPOSED GROUND FROM GATE POST TO SHELTER GROUND RING (TYP. 2 LOCATIONS)
- 22 #2 AWG SBTC GROUND WIRE @ 30" BFG CADWELDED TO FENCE POST (TYP 2 LOCATIONS)
- 23 ISOLATED GROUND FOR CUBE GROUNDING PER NEC.

NOTES:

1. FOR ADDITIONAL UTILITY INFORMATION SEE SHEETS C-2, E-2
2. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF POWER/PHONE ENTRANCE LINES WITH SERVICE EQUIPMENT LOCATIONS ON SHELTER DRAWINGS
3. THE CONTRACTOR SHALL VERIFY THE QUANTITIES AND CONFIGURATION OF SHELTER GROUND RING WITH CROWN CASTLE PRIOR TO INSTALLATION
4. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES AND GROUNDING PRIOR TO CONSTRUCTION
5. ALL CONDUITS SHALL BE STUFFED WITH A MIN. OF 2" OF STEEL WOOL AND TOPPED WITH EXPANSION FOAM



UTILITY AND GROUNDING PLAN

0 5' 10'

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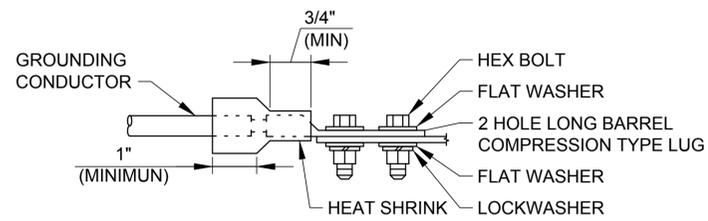


SHEET TITLE
UTILITY & GROUNDING PLAN AND ELECTRICAL NOTES

SHEET NUMBER

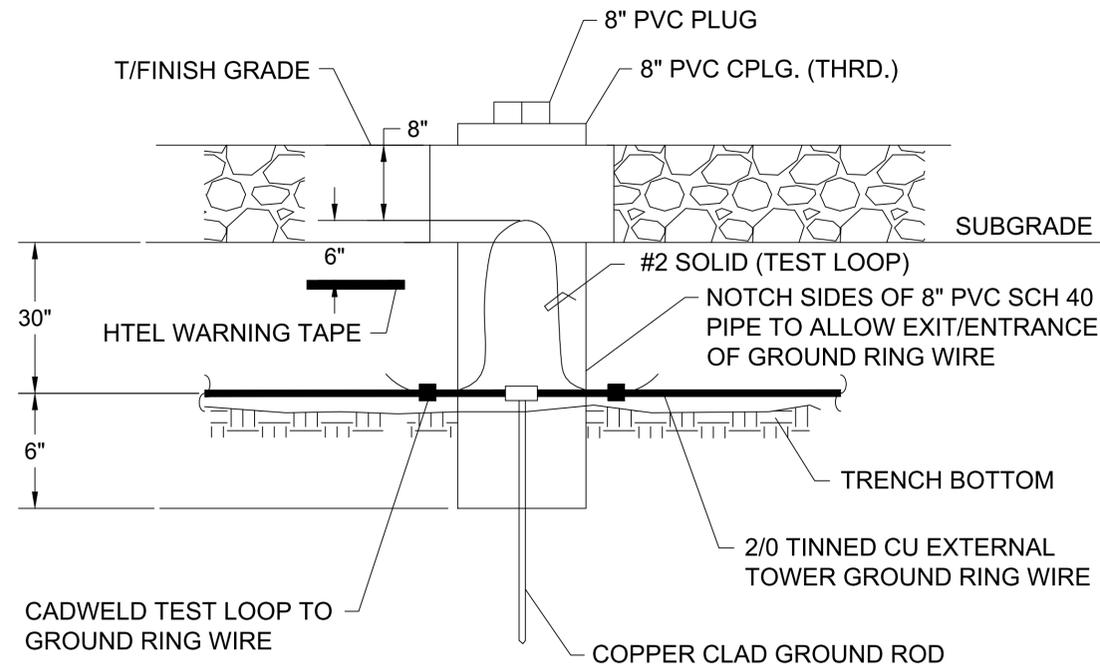
E-3

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- NOTES:
1. ALL HARDWARE SHALL BE STAINLESS STEEL INCLUDING LOCK WASHERS. PREPARE METAL SURFACE TO BARE BRIGHT FINISH AND COAT WITH ANTI-OXIDATION BEFORE JOINING.

TERMINAL LUG DETAIL
NOT TO SCALE



NOTE:
GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D)

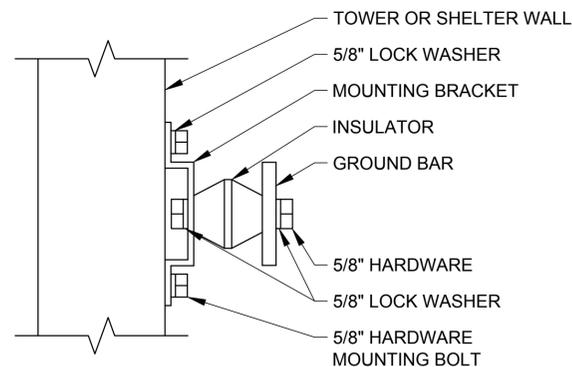
TEST WELL DETAIL
NOT TO SCALE

PP1 UTILITY 200A, 120/240 V, 1 ϕ /3W, 60Hz

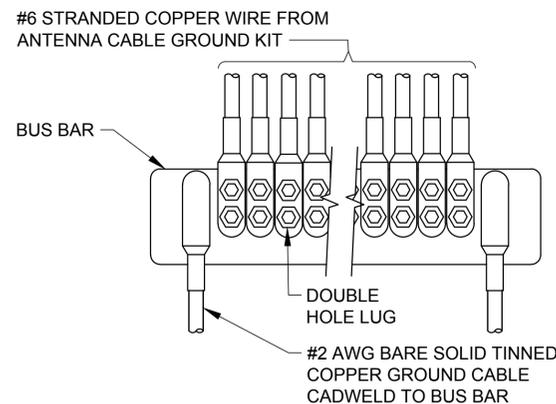
CKT#	# POLES	AMPS	AWG	LEFT SIDE DESCRIPTION	CKT#	# POLES	AMPS	AWG	
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3	1	30	10		4	1	50	10	
5	1			RECTIFIER #2	6	1			HVAC #2
7	1	30	10		8	1	50	10	
9	1			RECTIFIER #3	10	-			FUTURE
11	1	30	10		12	-			
13	1			RECTIFIER #4	14	-			FUTURE
15	1	30	10		16	-			
17	1			RECTIFIER #5	18	6/2			INTERIOR LIGHTS
19	1	30	10		20	2			
21	1			RECTIFIER #6	22	-			SPARE
23	1	30	10		24	2			
25	-			RECTIFIER #7 (OPTIONAL)	26	2			RECEPTACLES
27	-	30			28	2			
29	-			RECTIFIER #8 (OPTIONAL)	30	1			EXHAUST FAN
31	-	30			32	1			
33	-			SPARE BREAKER	34	2			GENERATOR ROOM LIGHTS
35	-	30			36	-			
37	-			SPARE BREAKER	38	1			BLOCK HEATER
39	-	60			40	1			
41	1	20	12	GENERATOR EXHAUST LOUVER	42	1			GENERATOR ROOM CORD REEL

- NOTES:
1. SEE ATTACHED INDUSTRIALIZED UNIT DRAWINGS FOR EXPANDED PANEL SCHEDULE INCLUDING LOADS.

PANEL SCHEDULE FOR SHELTER
NOT TO SCALE



GROUND BAR MOUNTING
NOT TO SCALE



GROUND WIRE TO GROUND BAR
NOT TO SCALE

PP2 UTILITY 60A, 120/240 V, 1 ϕ /3W, 60Hz

CKT#	# POLES	AMPS	AWG	LEFT SIDE DESCRIPTION
1	1			AC TO DC POWER SYSTEM
2	1	30	6	
3		15	12	GFCI
4				SPARE
5				SPARE
6				SPARE

LOAD CENTER PANEL SCHEDULE FOR CUBE
NOT TO SCALE

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5085 REED ROAD
COLUMBUS, OH 43220
614-459-2050
FAX 614-451-1385

CROWN SITE NAME:
N. RIVERSIDE/DUBLIN HS
CROWN SITE NUMBER: 826150
4000 HARD ROAD
DUBLIN, OH 43017



REV	DATE	DESCRIPTION	SCALE:
DESIGNED BY:	DRAWN BY:	DATE:	AS SHOWN
GSH	JBH	08/31/2015	



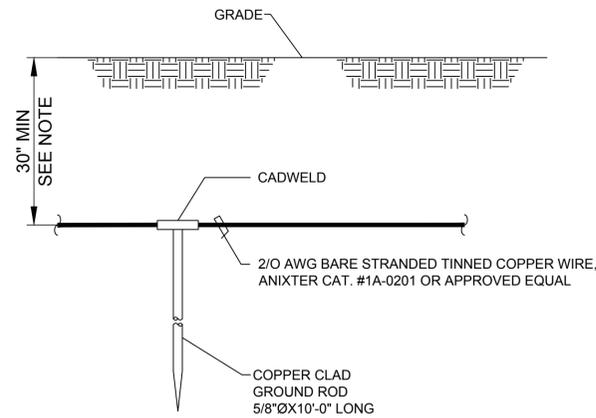
SHEET TITLE
ELECTRICAL AND GROUNDING DETAILS

SHEET NUMBER

E-4

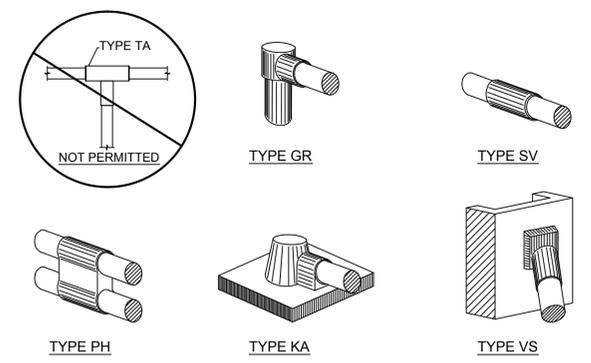
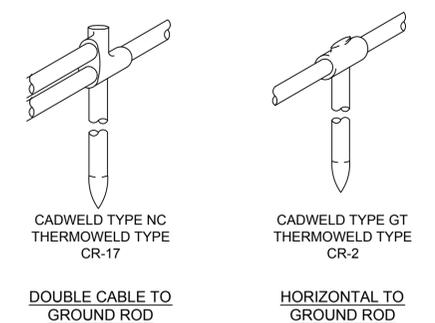
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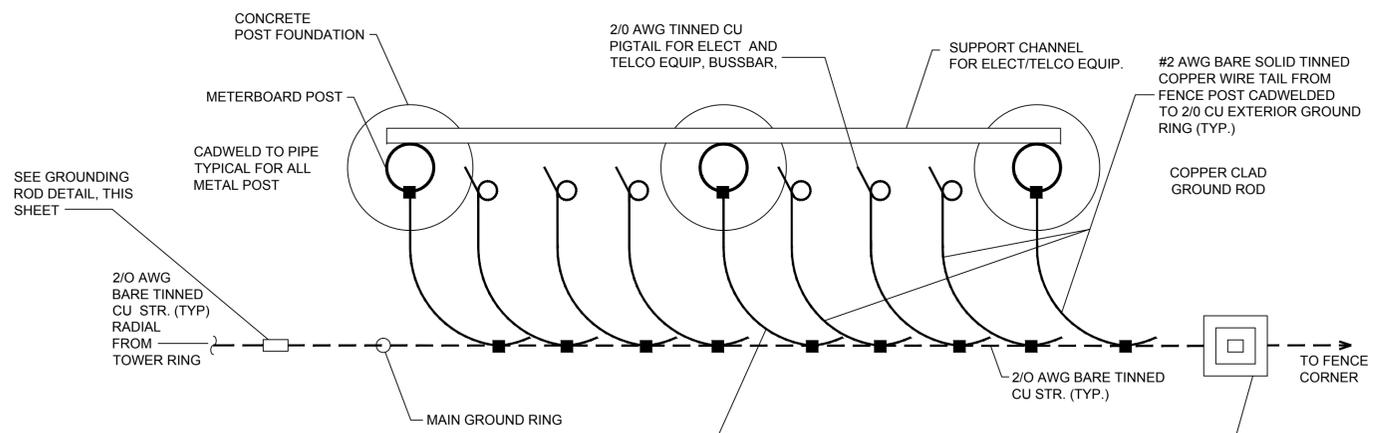


NOTE:
GROUND ROD SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE.
(WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D)

GROUNDING ROD DETAIL
NOT TO SCALE



TYPICAL CADWELDS
NOT TO SCALE



NOTE:
-NINE GROUND LEADS NEEDED FROM GROUND RING TO METER BOARD EQUIPMENT: ONE FOR EACH POST (3), ONE FOR EACH WIREWAY (3), ONE FOR TELCO BOX (1), ONE FOR ELECTRIC METER PANEL (1), ONE 2/0 FOR BUSSBAR (1)
-GROUND RODS AT METERBOARD TO BE 30" MIN. OR 6" BELOW FROST LINE (WHICH EVER IS DEEPEST).

NOTE
WHEN INSTALLING A FIVE FOOT (5') METERBOARD ONLY SIX (6) GROUND LEADS ARE REQUIRED

PLAN VIEW - METER RACK GROUNDING
NOT TO SCALE

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4000 HARD ROAD
DUBLIN, OH 43017



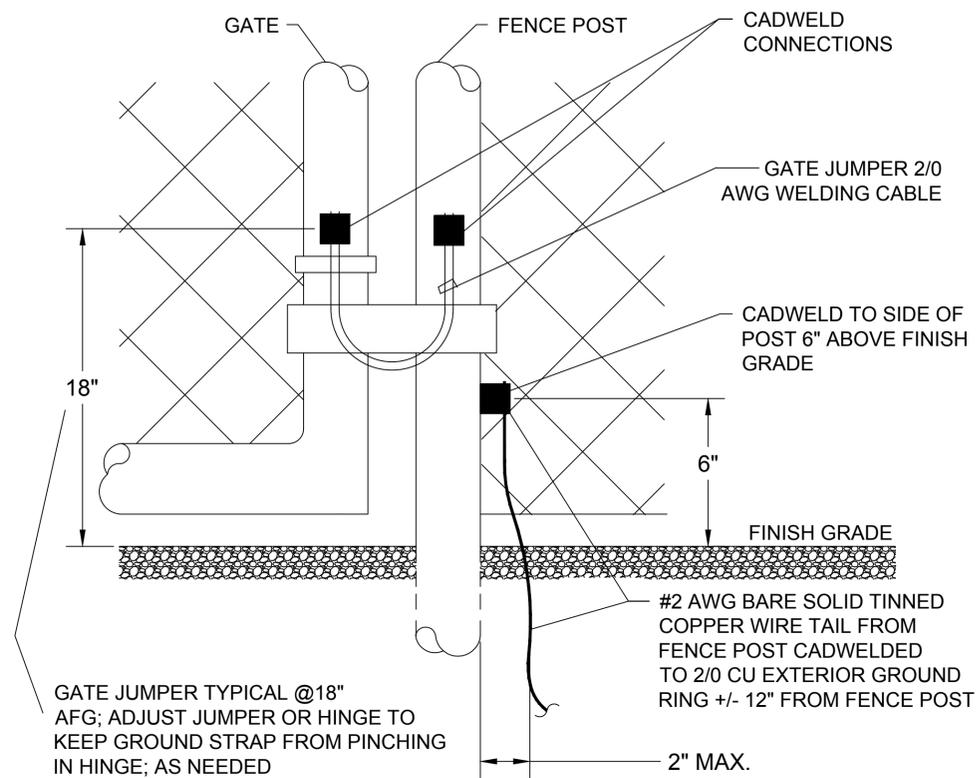
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DESIGNED BY:	DATE:		
GSH	08/31/2015		AS SHOWN
DRAWN BY:			
JBH			



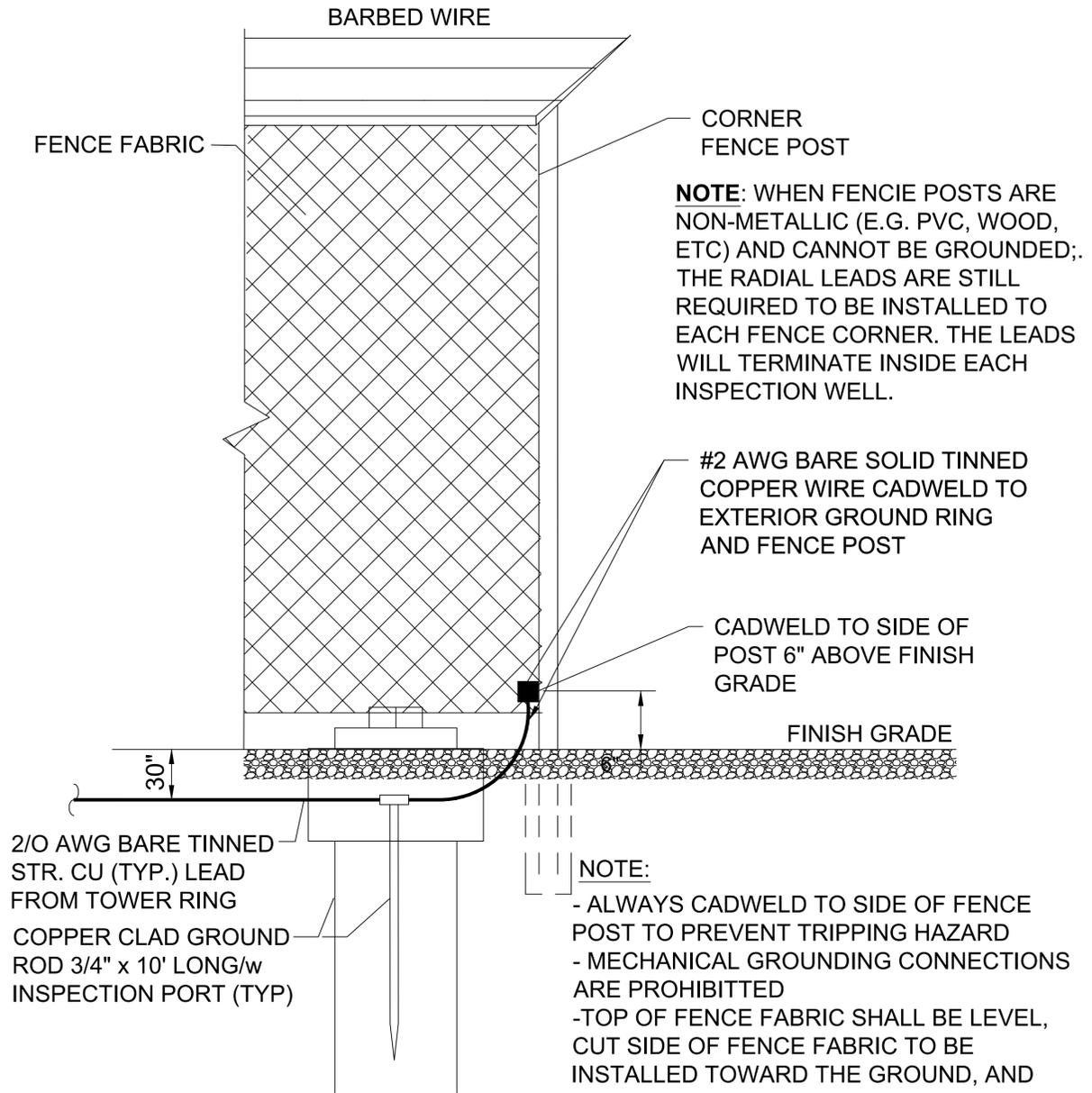
SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER
E-5

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GATE GROUNDING DETAIL
NOT TO SCALE



FENCE GROUNDING DETAIL
NOT TO SCALE

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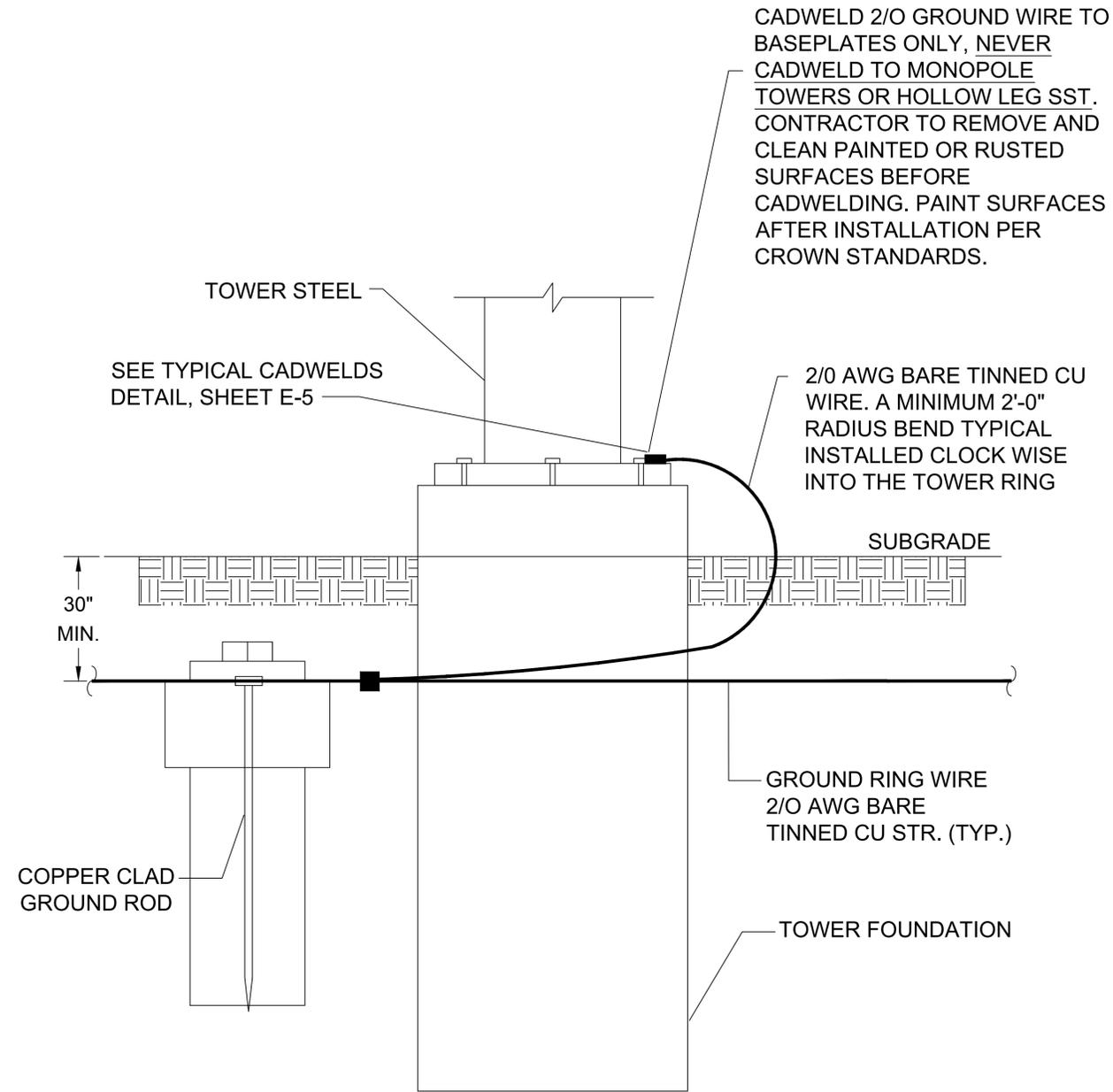
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DESIGNED BY:	DRAWN BY:	DATE:
GSH	JBH	08/31/2015
SCALE:		AS SHOWN



SHEET TITLE
FENCE GROUNDING DETAILS

SHEET NUMBER

E-6



TOWER FOUNDATION
GROUNDING DETAIL
NOT TO SCALE

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DUBLIN, OH 43017



REV	DATE	DESCRIPTION	SCALE
DESIGNED BY:	DRAWN BY:	DATE:	SCALE:
GSH	JBH	08/31/2015	AS SHOWN



SHEET TITLE
TOWER
FOUNDATION
GROUNDING
DETAILS

SHEET NUMBER

E-7