at&t
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RTC BUILDING 3, 16221 NE 72ND WAY
REDMOND, WA 98052

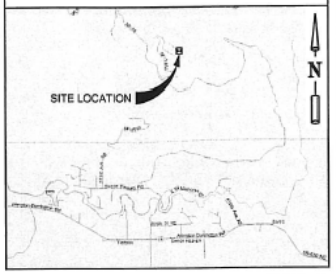
CAPSTONE
WIRELESS SOLUTIONS

DARRINGTON

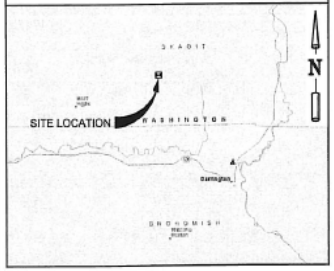
NF - 1855 ROAD
DARRINGTON, WA 98241
SNOHOMISH COUNTY

RN05

VICINITY MAP



GENERAL LOCATION MAP



DRIVING DIRECTIONS

FROM REDMOND OFFICE:
TRAVEL NORTH ON I-5 TO ARLINGTON AND TAKE EXIT #206. TURN RIGHT AND FOLLOW HWY 503 EAST (TOWARD DARRINGTON) FOR 26.5 MI. TAKE A LEFT ONTO SWEDE HEAVEN RD AND FOLLOW THIS FOR ABOUT 1.6 MI. TAKE A RIGHT ONTO FR 18 AND FOLLOW FOR ABOUT 10.6 MI. TAKE A RIGHT ONTO FR 1855 (UNMARKED) AND FOLLOW FOR 1.9 MI. TAKE A RIGHT ONTO ANOTHER UNMARKED ROAD WITH A GATE ACROSS IT AND GO THROUGH THIS GATE. GO 0.8 MI AND THE LATTICE TOWER ON THE RIGHT IS THE SITE.

APPROVAL/SIGN OFF OF CONSTRUCTION DRAWINGS

CONSULTANT GROUP SIGN OFF	DATE	SIGNATURE	AT&T SIGN OFF	DATE	SIGNATURE
CONSTRUCTION COORDINATOR			RF ENGINEER		
LANDLORD'S REPRESENTATIVE			INTERCONNECT		
PROJECT MANAGER			OPERATIONS		
SITE ACQUISITION			COMPLIANCE		
ZONING			CONSTRUCTION MANAGER		
			PROJECT MANAGER		
REVIEWERS SHALL CLEARLY PLACE INITIALS ADJACENT TO EACH REDLINE NOTE AS DRAWINGS ARE BEING REVIEWED					

PROJECT INFORMATION

APPLICANT:
AT&T MOBILITY CORPORATION
16221 NE 72nd WAY, RTC 3
REDMOND, WA 98052

PROPERTY OWNER:
U.S. FOREST SERVICE

PROJECT ENGINEER:
CORNERSTONE ENGINEERING, INC.
16926 WOODINVILLE-REDMOND RD N.E. SUITE 210
WOODINVILLE, WA 98072
MARK W OLSON, P.E.
PH: (425) 487-1732
FAX: (425) 487-1734

PROJECT CONSULTANTS:
CAPSTONE WIRELESS
909 291ST AVENUE NORTHEAST
CARNATION, WA 98014
CONTACT: JASON MCEVERS
PH: (425) 560-8791

CODE INFORMATION:
ZONING CLASSIFICATION: FOREST LAND
BUILDING CODE: IBC 2006
CONSTRUCTION TYPE: TELECOMMUNICATIONS
OCCUPANCY: UNOCCUPIED
JURISDICTION: SKAGIT COUNTY
PROPOSED BUILDING USE: TELECOMM

SITE LOCATION: (BASED ON NAD 83)
LATITUDE: 48° 19' 27.0" N
LONGITUDE: 121° 41' 31.5" W
TOP OF STRUCTURE: ±100'-0" AGL
BASE OF STRUCTURE: 0'-0" AMSL (ASSUMED)

PARCEL NUMBER:
TBD

AREA OF PARCEL:
TBD

PROJECT AREA:
±537 SQ. FT. EQUIPMENT AREA
±2,100 SQ. FT. ENTIRE COMPOUND

NEW IMPERVIOUS AREA:
0 SQ. FT.

GENERAL INFORMATION:
1. PARKING REQUIREMENTS ARE UNCHANGED. (NON ASSIGNED TECH PARKING)
2. TRAFFIC IS UNAFFECTED.
3. NO SIGNAGE IS PROPOSED.

PROJECT DESCRIPTION:
THIS PROPOSAL IS FOR THE MODIFICATION OF AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY, CONSISTING OF THE ADDITION (4) PROPANE TANKS WITHIN A CMU ENCLOSURE WITH ICE CANOPY AND (2) GENERATORS WITHIN A CMU ENCLOSURE WITH GABLE ROOF AND ICE CANOPY.

PROPRIETARY INFORMATION

THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AT&T WIRELESS, LLC. SERVICES IS STRICTLY PROHIBITED.

DRAWING INDEX

DWG. NO.	DESCRIPTION
T-1	TITLE SHEET
G-1	GENERAL NOTES
A-1	SITE PLAN
A-2	NORTH ELEVATION
A-2.1	WEST ELEVATION
A-3	CONSTRUCTION DETAILS
A-3.1	CONSTRUCTION DETAILS
S-1	STRUCTURAL NOTES & DETAILS
S-2	STRUCTURAL DETAILS
S-3	STRUCTURAL DETAILS

LEGAL DESCRIPTION

TBD

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PROJECT CONSULTANTS:
CAPSTONE WIRELESS SOLUTIONS

PLANS PREPARED BY:
CORNERSTONE ENGINEERING, INC.
16926 WOODINVILLE-REDMOND RD N.E. SUITE 210
WOODINVILLE, WA 98072
PHONE: 425.487.1732 FAX: 425.487.1734
EMAIL: cei@cornerstone-eng.com
WWW.CORNERSTONE-ENGR.COM

PROJECT INFO:
RN05
DARRINGTON
NF-1855 ROAD
DARRINGTON, WA 98241
SKAGIT COUNTY

ISSUED FOR:
CONSTRUCTION

REV:	DATE:	DESCRIPTION:	BY:	CK:
3	02-27-09	GENERATOR RELOCATION	JRF	MWO
2	02-16-09	ADDITION OF STRUCT DWG'S	JRF	MWO
1	01-26-09	RE-ISSUE FOR CONSTRUCTION	JRF	MWO
0	10-08-08	ISSUE FOR CONSTRUCTION	JRF	MWO
A	08-04-08	ISSUE FOR CLIENT REVIEW	JRF	MWO

DRAWN BY:	CHK.:	APV.:
JRF	MWO	MWO

CURRENT ISSUE DATE:
02-27-09

LICENSURE:
STATE OF WASHINGTON
MARK W. OLSON
EXPIRES 10/16/10

DRAWING INFORMATION:
DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS AND OMISSIONS. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN WHICH IS RELATED TO NAMED CLIENT IS STRICTLY PROHIBITED.

DRAWING TITLE:
TITLE SHEET

DRAWING NUMBER:
T-1 | 3

CEI JOB NUMBER: 08-66061

GENERAL NOTES:

1. DRAWINGS ARE NOT TO BE SCALED. WRITTEN DIMENSIONS TAKE PRECEDENCE. THIS SET OF DOCUMENTS IS INTENDED TO BE USED FOR DIAGRAMMATIC PURPOSES ONLY, UNLESS NOTED OTHERWISE. THE GENERAL CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR, AND ANY REQUIREMENTS DEEMED NECESSARY TO COMPLETE PROJECT AS DESCRIBED IN THE DRAWINGS AND OWNER'S PROJECT MANUAL.
2. PRIOR TO THE SUBMISSION OF BIDS, CONTRACTORS INVOLVED SHALL VISIT THE JOB SITE TO FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED PROJECT. CONTRACTORS SHALL VISIT THE CONSTRUCTION SITE WITH THE CONSTRUCTION/CONTRACT DOCUMENTS TO VERIFY FIELD CONDITIONS AND CONFIRM THAT THE PROJECT WILL BE ACCOMPLISHED AS SHOWN. PRIOR TO PROCEEDING WITH CONSTRUCTION, ANY ERRORS, OMISSIONS, OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER VERBALLY AND IN WRITING.
3. THE ARCHITECTS/ENGINEERS HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. CONTRACTORS BIDDING THE JOB ARE NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT ENTITLE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS. THE BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE ARCHITECT/ENGINEER OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO SUBMISSION OF CONTRACTOR'S PROPOSAL. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED OTHERWISE.
4. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
5. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
6. ALL WORK PERFORMED ON THE PROJECT AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK.
7. GENERAL CONTRACTOR SHALL PROVIDE, AT THE PROJECT SITE, A FULL SET OF CONSTRUCTION DOCUMENTS UPDATED WITH THE LATEST REVISIONS AND ADDENDA OR CLARIFICATIONS FOR USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT. THIS SET IS A VALID CONTRACT DOCUMENT ONLY IF THE TITLE SHEET IS STAMPED "FOR CONSTRUCTION" AND EACH SUCCESSIVE SHEET BEARS THE ARCHITECT'S SIGNED WET STAMP.
8. THE STRUCTURAL COMPONENTS OF ADJACENT CONSTRUCTION OR FACILITIES ARE NOT TO BE ALTERED BY THIS CONSTRUCTION PROJECT UNLESS NOTED OTHERWISE.
9. SEAL ALL PENETRATIONS THROUGH FIRE RATED AREAS WITH U.L. LISTED OR FIRE MARSHALL APPROVED MATERIALS IF APPLICABLE TO THIS FACILITY AND OR PROJECT SITE.
10. CONTRACTOR TO PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2A OR 2A:10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF PROJECT AREA DURING CONSTRUCTION.
11. CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
12. CONTRACTOR SHALL KEEP GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, AND RUBBISH. CONTRACTOR SHALL REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OR PREMISES. SITE SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
13. THE GENERAL CONTRACTOR SHALL RECEIVE WRITTEN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.
14. THE CONTRACTOR SHALL PERFORM WORK DURING OWNER'S PREFERRED HOURS TO AVOID DISTURBING NORMAL BUSINESS.
15. THE CONTRACTOR SHALL PROVIDE AT&T WIRELESS, LLC. PROPER INSURANCE CERTIFICATES NAMING AT&T WIRELESS, LLC. AS ADDITIONAL INSURED, AND AT&T WIRELESS, LLC. PROOF OF LICENSES AND P& P ID INSURANCE.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATING ALL INSPECTIONS.
17. CAUTION: CALL BEFORE YOU DIG! BURIED UTILITIES EXIST IN THE AREA AND UTILITY INFORMATION SHOWN MAY NOT BE COMPLETE. CONTACT THE ONE-CALL UTILITY LOCATE SERVICE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. DIAL 811
18. CONTRACTOR TO DOCUMENT ALL WORK PERFORMED WITH PHOTOGRAPHS AND SUBMIT TO AT&T WIRELESS, LLC. ALONG WITH RED LINED CONSTRUCTION SET.
19. CONTRACTOR TO DOCUMENT ALL CHANGES MADE IN THE FIELD BY MARKING UP (RED LINING) THE APPROVED CONSTRUCTION SET AND SUBMITTING THE REDLINED SET TO AT&T WIRELESS, LLC. UPON COMPLETION.
20. FOR COLLOCATION SITES: CONTACT TOWER OWNER REPRESENTATIVE FOR PARTICIPATION IN BID WALK.
21. GENERAL CONTRACTOR IS TO COORDINATE ALL POWER INSTALLATION WITH POWER COMPANY AS REQUIRED. CONTRACTOR TO REPORT POWER INSTALLATION COORDINATION SOLUTIONS TO NETWORK CARRIER REPRESENTATIVE, PROJECT CONSTRUCTION MANAGER AND ARCHITECT.
22. ANY SUBSTITUTIONS OF MATERIALS AND/OR EQUIPMENT, MUST BE APPROVED BY AT&T CONSTRUCTION MANAGER.
23. IN THE CASE OF ROOFTOP SOLUTIONS FOR EQUIPMENT AND/OR ANTENNA FRAMES WHERE PENETRATION OF EXISTING ROOFING MATERIALS OCCUR, THE GENERAL CONTRACTOR SHALL COORDINATE WITH BUILDING OWNER AND BUILDING ROOFING CONTRACTOR OF RECORD FOR INSTALLATION, PATCH, REPAIR OR ANY AUGMENTATION TO THE ROOF, AND HAVE THE WORK GUARANTEED UNDER THE ROOFING CONTRACTOR'S WARRANTY FOR MOISTURE PENETRATION OR AND OTHER FUTURE BREACH OF ROOFING INTEGRITY.
24. IN THE CASE OF ROOFTOP SOLUTIONS WITH THE INSTALLATION OF ANTENNAS WITHIN CONCEALED (SHROUDED) SUPPORT FRAMES OR TRIPODS, THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE FRP DESIGN/FABRICATOR TO ENSURE THAT THE FINAL FRP SHROUDS SIMULATING AN APPEARANCE DESIGNATED EXISTING EXTERIOR BUILDING FACADE MATERIALS, TEXTURES, AND COLORS. THE CONTRACTOR SHALL FURTHERMORE ENSURE THE USE OF COUNTERSUNK FASTENERS IN ALL FRP CONSTRUCTION. WHEN PHOTO SIMULATIONS ARE PROVIDED, THE CONTRACTOR SHALL ENSURE THAT FINAL CONSTRUCTION REPRESENTS WHAT IS INDICATED IN PHOTO SIMULATIONS. SHOP DRAWINGS SHALL BE PROVIDED TO THE GENERAL CONTRACTOR, CONSTRUCTION COORDINATOR, AND ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION.

GENERAL NOTES (CONT'D):

25. IN THE CASE OF ROOFTOP SOLUTIONS FOR EQUIPMENT AND/OR ANTENNA FRAMES WHERE ANCHORING TO A CONCRETE ROOF SLAB IS REQUIRED, CONTRACTORS SHALL CONFIRM PRIOR TO SUBMITTING BID WITH CONSULTING CONSTRUCTION COORDINATOR AND ARCHITECT THE PRESENCE OF POST TENSION TENDONS WITHIN THE ROOF SLAB - RESULTING FROM AN UNDOCUMENTED DESIGN CHANGE IN THE EXISTING BUILDING "AS BUILT DRAWING SET" - HAVING INDICATED AN ORIGINAL DESIGN SOLUTION OF REINFORCED CONCRETE IN EMBEDDED STEEL REBAR. IN THE EVENT POST TENSION SLAB SOLUTION IS PRESENT, CONTRACTOR SHALL INCLUDE PROVISIONS FOR 3-WAY PINDESOURCES (INCLUDED IN BID) FOR ALL PENETRATION AREAS WHERE ANCHORING OCCURS.
26. GENERAL & SUB CONTRACTORS SHALL USE STAINLESS STEEL METAL LOCKING TIES FOR ALL CABLE TRAY TIE DOWNS AND ALL OTHER GENERAL TIE DOWNS (WHERE APPLICABLE). PLASTIC ZIP TIES SHALL NOT BE PERMITTED FOR USE ON AT&T PROJECTS. RECOMMENDED MANUFACTURE SHALL BE PANDUIT CORP. METAL LOCKING TIES MODEL NO. ULTA-CP UNDER SERIES-304 (OR EQUAL). PANDUIT PRODUCT DISTRIBUTED BY TRIANG OF TACOMA, WA.

DESIGN CRITERIA:

1. THE STRUCTURAL DESIGN OF THIS PROJECT IS IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE 2006 WITH WASHINGTON STATE BUILDING CODE AMENDMENTS (2006 IBC).
2. DESIGN LOADS:

DESIGN DATA FOR SKAGIT COUNTY, WA:

-ROOF SNOW LOAD	_____	350 psf
-BASIC WIND SPEED	_____	85 MPH (3 SEC GUST)
-WIND EXPOSURE	_____	B

CONCRETE NOTES:

1. ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI-318.
2. CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH CHAPTER 19 OF THE 2006 IBC. STRENGTHS AT 28 DAYS AND MIX CRITERIA SHALL BE AS FOLLOWS:

TYPE OF CONSTRUCTION	28 DAY STRENGTHS (f'c)	W/C RATIO	MINIMUM CEMENT CONTENT PER CUBIC YARD
A. SLABS ON GRADE TOPPING SLABS CONCRETE PIERS	2,500 PSI	≤ .45	6 1/2 SACKS
B. ALL STRUCTURAL CONCRETE EXCEPT WALLS	4,000 PSI	≤ .45	6 1/2 SACKS
C. CONCRETE WALLS	4,000 PSI	≤ .45	6 1/2 SACKS

CEMENT SHALL BE ASTM C150, PORTLAND CEMENT TYPE II UNLO.

3. THE GENERAL CONTRACTOR SHALL SUPERVISE AND BE RESPONSIBLE FOR THE METHODS AND PROCEDURES OF CONCRETE PLACEMENT.
4. ALL CONCRETE WITH SURFACES EXPOSED TO STANDING WATER SHALL BE AIR-ENTRAINED WITH AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260, C494, CRD, C588 AND C1017. TOTAL AIR CONTENT SHALL BE IN ACCORDANCE WITH TABLE 1904.2.1 OF THE 2006 IBC.
5. REINFORCING STEEL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENT S1), GRADE 60, fy=60,000 PSI. EXCEPTIONS: ANY BARS SPECIFICALLY NOTED ON THE DRAWINGS SHALL BE GRADE 40, fy=40,000 PSI. GRADE 60 REINFORCING BARS INDICATED ON DRAWINGS TO BE WELDED SHALL CONFORM TO ASTM A706. REINFORCING COMPLYING WITH ASTM A615 MAY BE WELDED ONLY IF MATERIAL PROPERTY REPORTS INDICATING CONFORMANCE WITH WELDING PROCEDURES SPECIFIED IN A.W.S. D1.4 ARE SUBMITTED.
6. REINFORCING STEEL SHALL BE DETAILED (INCLUDING HOOKS AND BENDS) IN ACCORDANCE WITH ACI 315 AND 318. LAP ALL CONTINUOUS REINFORCEMENT AT LEAST 30 BAR DIAMETERS OR A MINIMUM OF 2'-0". PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP CORNER BARS AT LEAST 30 BAR DIAMETERS OR A MINIMUM OF 2'-0". LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8" AT SIDES AND ENDS.
7. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185
8. SPIRAL REINFORCEMENT SHALL BE PLAIN WIRE CONFORMING TO ASTM A615, GRADE 60, fy=60,000 PSI.
9. NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE CONSULTANT.
10. CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

- FOOTINGS AND OTHER UNFORMED SURFACES, EARTH FACE		3"
- FORMED SURFACES EXPOSED TO EARTH OR WEATHER	(#6 BARS OR LARGER)	2"
	(#5 BARS OR SMALLER)	1 1/2"
- SLABS AND WALLS (INTERIOR FACE)		3/4"

11. BARS SHALL BE SUPPORTED ON CHAIRS OR DOBIE BRICKS.
12. ANCHOR BOLTS TO CONFORM TO ASTM A307.
13. NON-SHRINK GROUT SHALL BE FURNISHED BY AN APPROVED MANUFACTURER AND SHALL BE MIXED AND PLACED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS. GROUT STRENGTH SHALL BE AT LEAST EQUAL TO THE MATERIAL ON WHICH IT IS PLACED (3,000 PSI MINIMUM).
14. ALL EXPANSION ANCHORS TO BE HILTI BRAND. ADHESIVE ANCHORS REQUIRE TESTING TO CONFIRM CAPACITY UNLESS WAIVED BY ENGINEER.

STRUCTURAL STEEL NOTES:

1. SHOP DRAWINGS FOR STRUCTURAL STEEL SHALL BE SUBMITTED TO THE CONSULTANT FOR REVIEW PRIOR TO FABRICATION.
2. STRUCTURAL STEEL DESIGN, FABRICATION AND ERECTION (INCLUDING FIELD WELDING, HIGH STRENGTH FIELD BOLTING, EXPANSION BOLTS, AND THREADED EXPANSION ANCHORS) SHALL BE BASED ON THE A.I.S.I. "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" LATEST EDITION. SUPERVISION SHALL BE IN ACCORDANCE WITH 2006 IBC CHAPTER 22. BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE CONSULTANT. THE CONSULTANT SHALL BE FURNISHED WITH A COPY OF ALL INSPECTION REPORTS AND TEST RESULTS.
3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

TYPE OF MEMBER

A. WIDE FLANGE SHAPE	ASTM-992, Fy-50 KSI
B. OTHER SHAPE, PLATES AND ROD	ASTM C36, Fy-36 KSI
C. PIPE COLUMNS	ASTM A53, Fy-35 KSI
D. STRUCTURAL TUBING	ASTM A500, Fy-46 KSI
E. ANCHOR BOLTS	ASTM A307
F. CONNECTION BOLTS	ASTM A325

4. ALL MATERIAL TO BE HOT DIPPED GALVANIZED AFTER FABRICATION PER A123/A123M-90.
5. ALL WELDING SHALL BE IN CONFORMANCE WITH A.I.S.I. AND AWS STANDARDS AND SHALL BE PERFORMED BY W.A.B.O. CERTIFIED WELDERS USING E70 XX ELECTRODES. ONLY PREQUALIFIED WELDS (AS DEFINED BY AWS) SHALL BE USED. WELDING OF GRADE 60 REINFORCING BARS (IF REQUIRED) SHALL BE PERFORMED USING LOW HYDROGEN ELECTRODES. WELDING OF GRADE 40 REINFORCING BARS (IF REQUIRED) SHALL BE PERFORMED USING E70 XX ELECTRODES. WELDING WITHIN 4" OF COLD BENDS IN REINFORCING STEEL IS NOT PERMITTED. SEE REINFORCING NOTE FOR MATERIAL REQUIREMENTS OF WELDED BARS.
6. COLD-FORMED STEEL FRAMING MEMBERS SHALL BE OF THE SHAPE, SIZE, AND GAGE SHOWN ON THE PLANS. PROVIDE MINIMUM SECTION PROPERTIES INDICATED. ALL COLD-FORMED STEEL FRAMING SHALL CONFORM TO THE A.I.S.I. "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."
7. BOLTED CONNECTIONS SHALL USE BEARING TYPE ASTM A325 BOLTS (3/4" DIA.) AND SHALL HAVE A MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
8. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. ASTM A307 BOLTS UNLESS NOTED OTHERWISE.
9. ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE DESIGN & CONSTRUCTION SPECIFICATION AND IN ACCORDANCE WITH ASTM A36 UNLESS NOTED OTHERWISE.
10. ALL WELDS TO BE 1/4" FILLET UNLESS NOTED OTHERWISE.
11. TOUCH UP ALL FIELD DRILLING AND WELDING WITH 2 COATS OF GALVACON (ZINC RICH PAINT) OR APPROVED EQUAL.

TOWER/POLE NOTES:

1. VERIFICATION THAT THE PROPOSED TOWER/POLE CAN SUPPORT THE PROPOSED ANTENNA LOADING IS TO BE DONE BY OTHERS.
2. PROVIDE SUPPORTS FOR THE ANTENNA COAX CABLES TO THE ELEVATION OF ALL INITIAL AND FUTURE ANTENNAS. ANTENNA COAX CABLES ARE TO BE SUPPORTED AND RESTRAINED AT THE CENTERS SUITABLE TO THE MANUFACTURER'S REQUIREMENTS.

ABBREVIATED ROOF TOP SAFETY PROCEDURES (WHEN APPLICABLE):

(AS PER "ACCIDENT PREVENTION PROGRAM" - BY PERMISSION OF WREN CONSTRUCTION, INC. - 6/30/1998)

FALL PROTECTION METHODS AND EQUIPMENT
ROOF TOP INSTALLATION

1. FOR WORK IS BEING PERFORMED WITHIN 25' OF AN UNPROTECTED ROOF EDGE, THE CONSTRUCTION SUPERVISOR SHALL DESIGNATE A TRAINED SAFETY MONITOR TO OBSERVE THE MOVEMENTS AND ACTIVITIES OF THE CONSTRUCTION WORKERS.
2. SAFETY MONITOR SHALL WARN CONSTRUCTION WORKERS OF HAZARDS (I.E., BACKING UP TOWARD A ROOF EDGE, ETC.) OR UNSAFE ACTIVITIES. THE SAFETY MONITOR MUST BE ON THE SAME ROOF AND WITHIN VISUAL AND VERBAL DISTANCE OF THE CONSTRUCTION WORKERS.
3. CONSTRUCTION INVOLVING WORKERS TO APPROACH WITHIN 6" OR LESS OF AN UNPROTECTED ROOF EDGE, REQUIRES WORKERS TO USE SAFETY LINE.
4. SAFETY LINE SHALL BE MINIMUM 1/2" DIAMETER NYLON, WITH A NOMINAL TENSILE STRENGTH OF 5400 LBS.
5. SAFETY LINE SHALL BE ATTACHED TO A SUBSTANTIAL MEMBER OF THE STRUCTURE.
6. SAFETY LINE LENGTH SHALL BE SET ALLOWING CONSTRUCTION WORKER TO REACH EDGE OF ROOF, BUT NOT BEYOND.
7. SAFETY BELTS SHALL BE WORN BY ALL CONSTRUCTION WORKERS.
8. MONTHLY SAFETY INSPECTION AND MAINTENANCE OF THE FALL PROTECTION EQUIPMENT SHALL OCCUR BY THE SAFETY COMMITTEE REPRESENTATIVES, INCLUDING:

INSPECTION OF CONSTRUCTION AREA FOR HAZARDS
USE OF AN INSPECTION CHECKLIST
INTERVIEWING CONSCRIBERS REGARDING SAFETY CONCERNS
REPORTING AND DOCUMENTING ANY HAZARDS
REPORTING HAZARDS TO THE SAFETY COMMITTEE FOR CONSIDERATION
POSTING RESULTS OF INSPECTION AND ANY ACTION TAKEN
RECEIVING AN UNBIASED REVIEW OF ONE'S OWN WORK AREA BY AND THE CONSORTER SAFETY REPRESENTATIVE

REFER TO ROOFTOP WORK AREA SAFETY PROTOCOL.
NATIONAL ASSOCIATION OF TOWER ERECTORS 2008 PUBLICATION

REFERENCED OSHA REGULATION STANDARDS SHALL BE REVIEWED BY TOWER ERECTORS, EQUIPMENT INSTALLERS, AND TOWER/ROOF TOP CONTRACTORS/SUBCONTRACTORS
29 CFR 1926.500 - SCOPE, APPLICATION, AND DEFINITIONS
29 CFR 1926.501 - DUTY TO HAVE FALL PROTECTION
29 CFR 1926.502 - FALL PROTECTION SYSTEMS CRITERIA AND PRACTICES

SYMBOLS AND ABBREVIATIONS

A/C	AIR CONDITIONING	LBS	POUNDS
ADJ.	ABOVE FINISH GRADE	MAX	MAXIMUM
APPROX	APPROXIMATELY	MECH	MECHANICAL
		MTL	METAL
BLDG	BUILDING	MFR	MANUFACTURE
BLK	BLOCKING	MGR	MANAGER
		MIN	MINIMUM
CLG	CEILING	MISC	MISCELLANEOUS
CLR	CLEAR		
CONC	CONCRETE	NA	NOT APPLICABLE
CONST	CONSTRUCTION	NIC	NOT IN CONTRACT
CONT	CONTINUOUS	NTS	NOT TO SCALE
DBL	DOUBLE	OC	ON CENTER
DIA	DIAMETER	OD	OUTSIDE DIAMETER
DIAG	DIAGONAL		
DN	DOWN	PLYWD	PLYWOOD
DET	DETAIL	PROJ	PROJECT
DWG	DRAWING	PROP	PROPERTY
		PT	PRESSURE TREATED
EA	EACH	REQ	REQUIRED
ELEV	ELEVATION	RM	ROOM
ELEC	ELECTRICAL	RO	ROUGH OPENING
EQ	EQUAL		
EQUIP	EQUIPMENT	SHT	SHEET
EXT	EXTERIOR	SIM	SIMILAR
		SPEC	SPECIFICATION
FIN	FINISH	SF	SQUARE FOOT
FLUOR	FLUORESCENT	SS	STAINLESS STEEL
FLR	FLOOR	STL	STEEL
FT	FOOT	STRUCT	STRUCTURAL
		STD	STUD
GA	GAUGE	SUSP	SUSPENDED
GALV	GALVANIZED		
GC	GENERAL CONTRACTOR	THRU	THROUGH
GRND	GROUND	TRNS	TRINED
GYP BD	GYPSUM WALL BOARD	TYP	TYPICAL
HORIZ	HORIZONTAL	UNO	UNLESS NOTED OTHERWISE
HR	HOUR		
HT	HEIGHT		
HVAC	HEATING VENTILATION AIR CONDITIONING	VERT	VERTICAL
		VIF	VERIFY IN FIELD
		W/	WITH
ID	INSIDE DIAMETER	W/O	WITHOUT
IN	INCH	WP	WATER PROOF
INFO	INFORMATION		
INSUL	INSULATION		
INT	INTERIOR		
IBC	INTERNATIONAL BUILDING CODE		

—T—T—	TELEPHONE
—P—P—	POWER
—G—	GROUND WIRE
—COAX—COAX—	COAXIAL CABLE
	ANTENNA
℄	CENTERLINE
(E)	EXISTING
	DETAIL NUMBER / SHEET NUMBER

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PROJECT CONSULTANTS:

CAPSTONE WIRELESS SOLUTIONS

PLANS PREPARED BY:

CORNERSTONE ENGINEERING, INC.
18021 WOODINVILLE-REDMOND RD NE, SUITE 210
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PHONE: 425 487 1732 FAX: 425 487.1734
EMAIL: info@cornerstone-eng.com
WWW.CORNERSTONE-ENGR.COM

PROJECT INFO:

RN05
DARRINGTON

NF-1865 ROAD
DARRINGTON, WA 98241
SKAGIT COUNTY

ISSUED FOR:

CONSTRUCTION

REV.	DATE:	DESCRIPTION:	BY:	CK:
3	02-27-09	GENERATOR RELOCATION	JRF	MWO
2	02-16-09	ADDITION OF STRUCT DWGS	JRF	MWO
1	01-26-09	RE-ISSUE FOR CONSTRUCTION	JRF	MWO
0	10-08-08	ISSUE FOR CONSTRUCTION	JRF	MWO
A	08-04-08	ISSUE FOR CLIENT REVIEW	JRF	MWO

DRAWN BY:	CHK:	APV:
JRF	MWO	MWO

CURRENT ISSUE DATE:

02-27-09

LICENSURE:

STATE OF WASHINGTON
ROOF TO WALL
MARK W. OLSEN
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 02/15/10

DRAWING INFORMATION:

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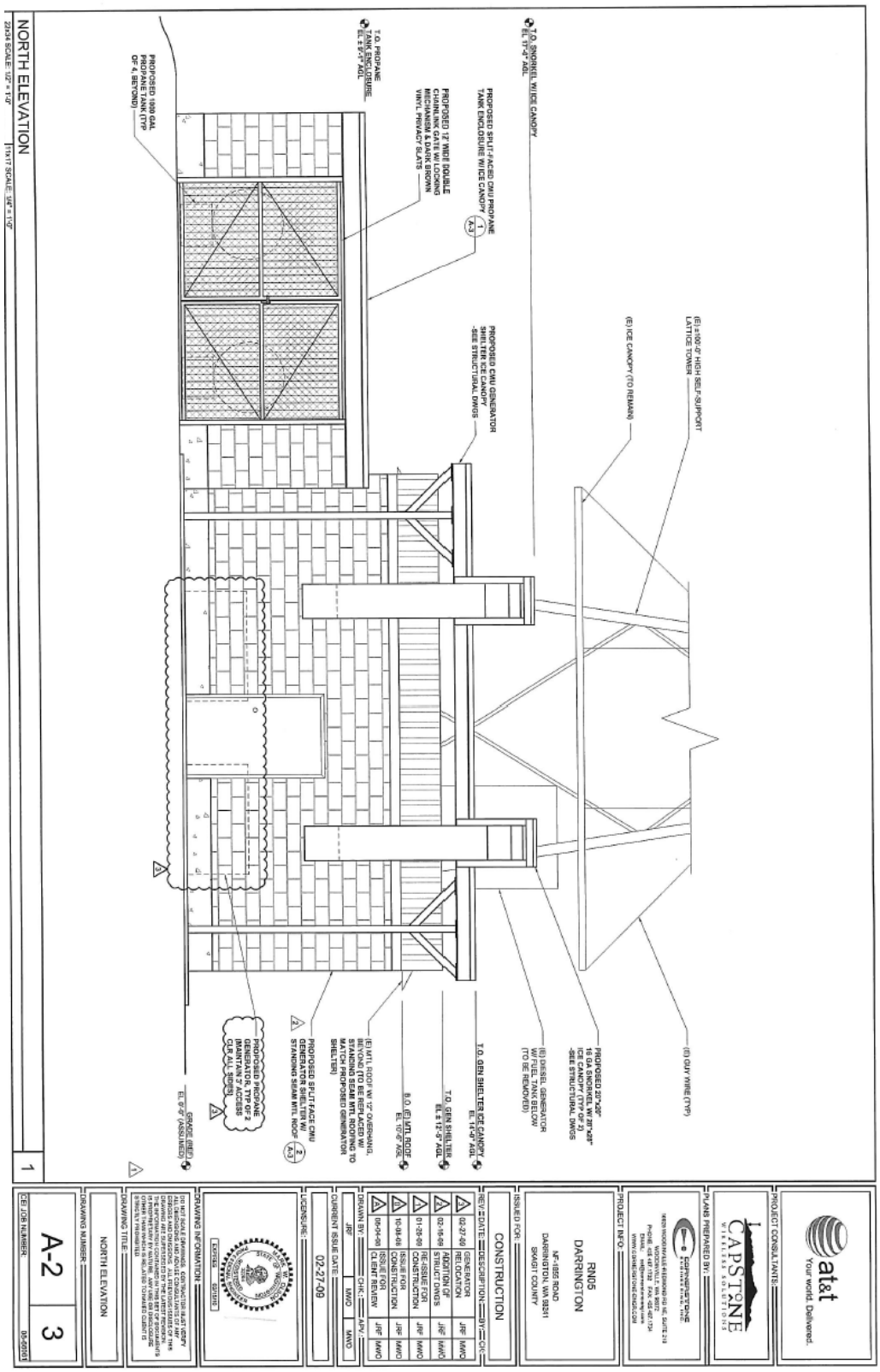
DRAWING TITLE:

GENERAL NOTES

DRAWING NUMBER:

G-1 | 3

CEI JOB NUMBER: 08-06061



PROJECT CONSULTANTS:

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CAPSTONE WIRELESS SOLUTIONS

PLANS PREPARED BY:

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ARCHITECTURE & PLANNING
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PROJECT INFO:

RN05
DARRINGTON

VF 4555 ROAD
DARRINGTON, WA 98241
SKAGIT COUNTY

ISSUED FOR:

CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CK
1	02-27-09	GENERATOR RELOCATION	JRF	MWO
2	02-16-09	ADDITION OF STRUCT DWGS	JRF	MWO
3	01-30-09	ISSUE FOR CONSTRUCTION	JRF	MWO
4	10-04-08	ISSUE FOR CONSTRUCTION	JRF	MWO
5	09-24-08	ISSUE FOR CLIENT REVIEW	JRF	MWO

DRAWN BY: JRF CHK: MWO APV: MWO

CURRENT ISSUE DATE: 02-27-09

LICENSURE:

DRAWING INFORMATION:

STATE OF WASHINGTON
MICHAEL W. OLSEN
EXPIRES 6 / 6 / 2010

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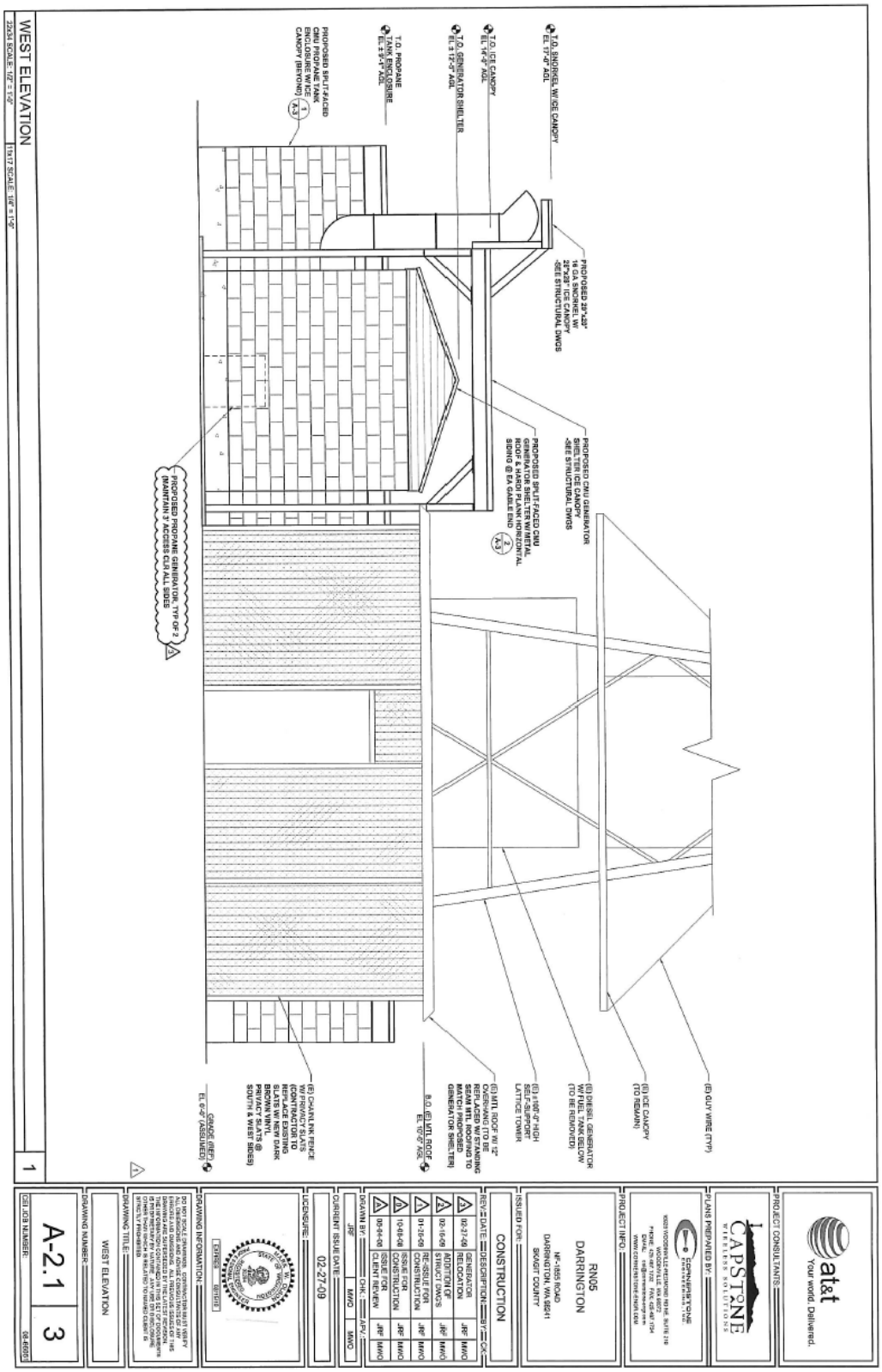
DRAWING TITLE: NORTH ELEVATION

DRAWING NUMBER: A-2 3

CE JOB NUMBER: 05-00051


T.O. SNORKEL W/ICE CANOPY
EL 17'-0" AGL
T.O. ICE CANOPY
EL 14'-9" AGL
T.O. GENERATOR SHELTER
EL 13'-2" AGL
T.O. PROPANE TANK ENCLOSURE
EL 9'-1" AGL
PROPOSED SPLIT-FACED CMU PROPANE TANK ENCLOSURE WITH ICE CANOPY (BEYOND)
PROPOSED 20'-0"x8'-0" 16 GA. SNORKEL W/ 20'x28' ICE CANOPY -SEE STRUCTURAL DWGS
PROPOSED CMU GENERATOR SHELTER ICE CANOPY -SEE STRUCTURAL DWGS
PROPOSED SPLIT-FACED CMU GENERATOR SHELTER W/ METAL ROOF & HARDI PLANK HORIZONTAL SIDING @ EA GABLE END
PROPOSED PROPANE GENERATOR, TYP OF 2 MAINTAIN 3' ACCESS CLR ALL SIDES
(E) GUY WIRE (TYP)
(E) ICE CANOPY (TO REMAIN)
(E) DIESEL GENERATOR W/ FUEL TANK BELOW (TO BE REMOVED)
(E) 140'-0" HIGH SELF-SUPPORT LATTICE TOWER
(E) MTL ROOF W/ 12" OVERHANG TO BE REPLACED W/ STANDING SEAM MTL ROOFING TO MATCH PROPOSED GENERATOR SHELTER
B.O. (E) MTL ROOF EL 10'-0" AGL
(E) CHAINLINK FENCE W/ PRIVACY SLATS TO BE REMOVED & REPLACE EXISTING SLATS W/ NEW DARK BROWN VINYL PRIVACY SLATS @ SOUTH & WEST SIDES)
GRADE (REF) EL 0'-0" (ASSUMED)
WEST ELEVATION
32x54 SCALE: 1/2" = 1'-0"
11x17 SCALE: 1/4" = 1'-0"
1
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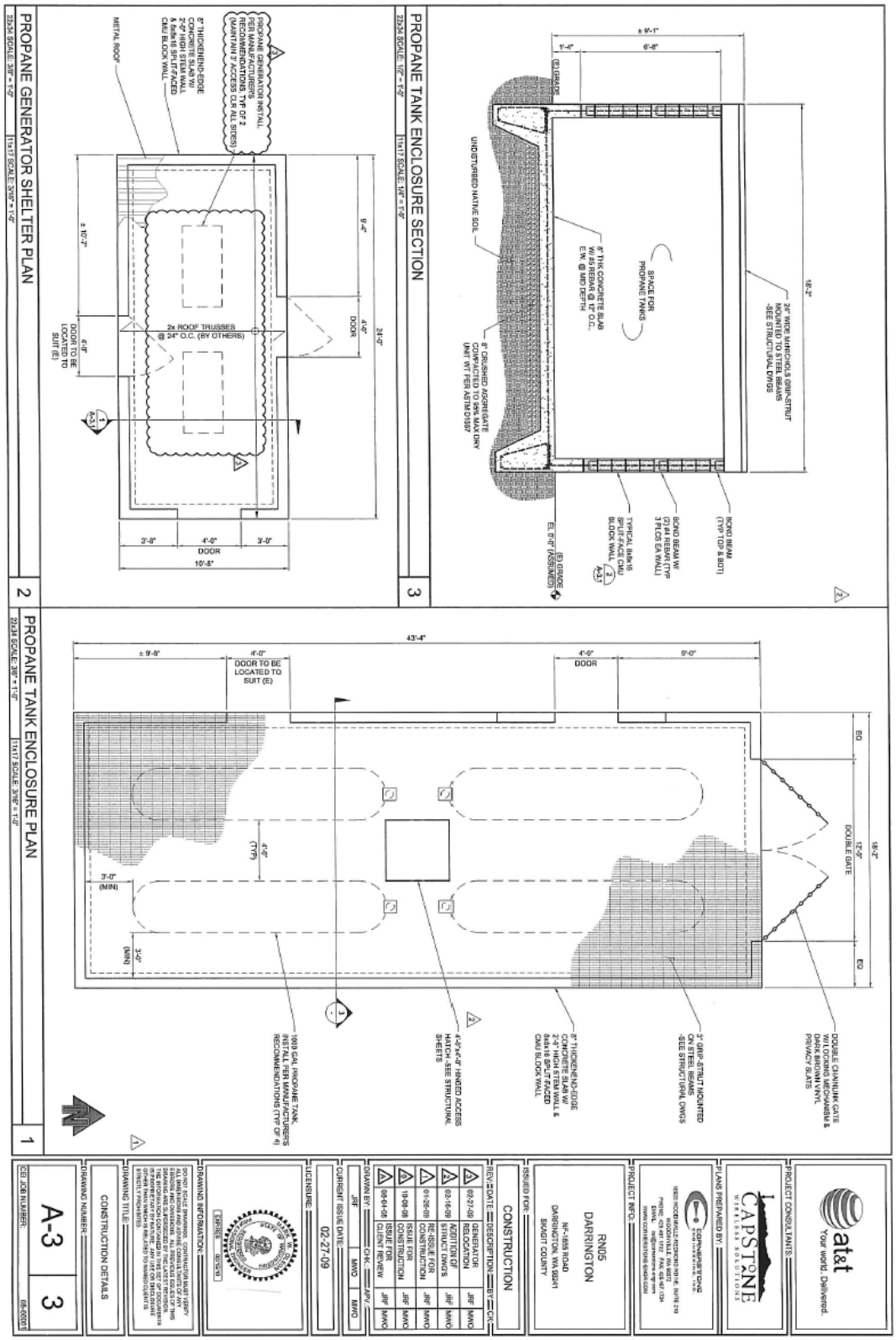
PROJECT CONSULTANTS
CAPSTONE
WIRELESS SOLUTIONS
PLANS PREPARED BY:
CONSULTANT NAME
PROJECT INFO
RN05
DARRINGTON
NF-1855 ROAD
DARRINGTON, WA 98241
SNOHOMISH COUNTY
ISSUED FOR:
CONSTRUCTION
REV DATE DESCRIPTION BY CK
00-27-09 GENERATOR RELOCATION JRF MWO
00-15-09 ADDITION OF STRUCT DWGS JRF MWO
01-20-09 ISSUE FOR CONSTRUCTION JRF MWO
10-01-09 ISSUE FOR CONSTRUCTION JRF MWO
00-04-09 ISSUE FOR CLIENT REVIEW JRF MWO
DRAWN BY: JRF
CHK: MWO
APV: MWO
CURRENT ISSUE DATE: 02-27-09
LICENSURE
DRAWING INFORMATION
EXPIRES 01/31/10
DRAWING TITLE
WEST ELEVATION
DRAWING NUMBER
A-2.1
3
GSI JOB NUMBER: 08-46000


PROPANE TANK ENCLOSURE PLAN
PROPANE TANK ENCLOSURE SECTION
PROPANE GENERATOR SHELTER PLAN
2x ROOF TRUSSES @ 24" O.C. (BY OTHERS)
DOOR TO BE LOCATED TO SUIT (E)
DOUBLE CHAINLINK GATE W/ LOCKING MECHANISM & DARK BROWN VINYL PRIVACY SLATS
3" GRIP-STRUT MOUNTED ON STEEL BEAMS -SEE STRUCTURAL DWGS
8" THICKENED-EDGE CONCRETE SLAB W/ 2'-0" HIGH STEM WALL & 8x8x16 SPLIT-FACED CMU BLOCK WALL
4'-0"x4'-0" HINGED ACCESS HATCH -SEE STRUCTURAL SHEETS
1000 GAL PROPANE TANK INSTALL PER MANUFACTURER'S RECOMMENDATIONS (TYP OF 4)
PROJECT CONSULTANTS
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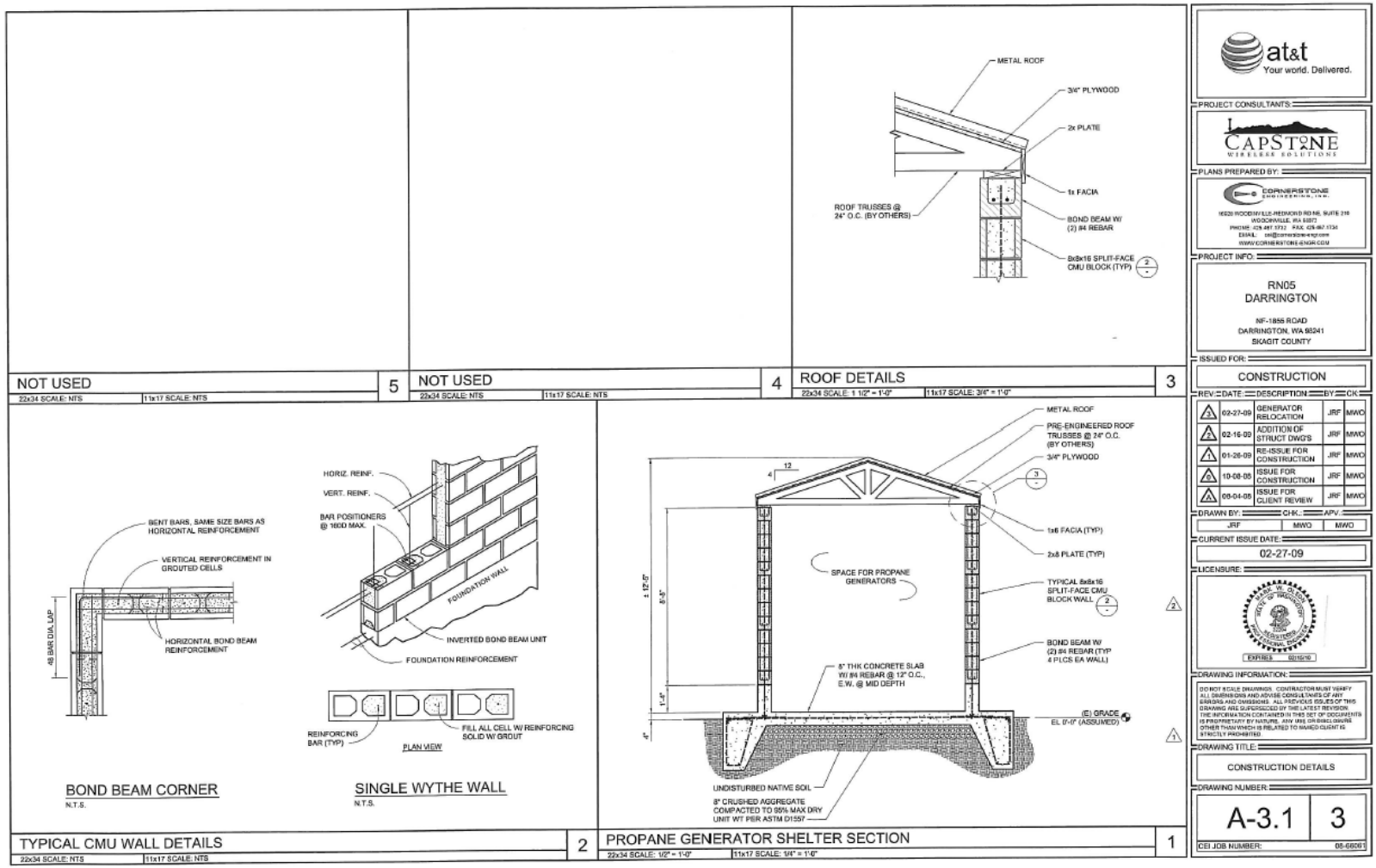
CAPSTONE
PLANS PREPARED BY:
PROJECT INFO:
RN05
DARRINGTON
NF-1858 ROAD
DARRINGTON, WA 98241
SNOHOMISH COUNTY
ISSUED FOR:
CONSTRUCTION
REV DATE DESCRIPTION BY CK
03-27-09 GENERATOR RELOCATION JRF MWO
02-16-09 ADDITION OF STRUCT DWGS JRF MWO
01-26-09 RE-ISSUE FOR CONSTRUCTION JRF MWO
10-08-08 COLLECTED FOR CONSTRUCTION JRF MWO
08-04-08 ISSUE FOR CLIENT REVIEW JRF MWO
DRAWN BY: JRF
CHK: APV
CURRENT ISSUE DATE: 02-27-09
LICENSURE:
DRAWING INFORMATION:
DRAWING TITLE:
CONSTRUCTION DETAILS
DRAWING NUMBER:
A-3
3
CSI JOB NUMBER:
08-0005


METAL ROOF
3/4" PLYWOOD
2x PLATE
1x FACIA
BOND BEAM W/ (2) #4 REBAR
8x8x16 SPLIT-FACE CMU BLOCK (TYP)
ROOF TRUSSES @ 24" O.C. (BY OTHERS)
NOT USED
22x34 SCALE: NTS
11x17 SCALE: NTS
5
NOT USED
22x34 SCALE: NTS
11x17 SCALE: NTS
4
ROOF DETAILS
22x34 SCALE: 1 1/2" = 1'-0"
11x17 SCALE: 3/4" = 1'-0"
3
BENT BARS, SAME SIZE BARS AS HORIZONTAL REINFORCEMENT
VERTICAL REINFORCEMENT IN GROUTED CELLS
HORIZONTAL BOND BEAM REINFORCEMENT
48 BAR DIA. LAP
BOND BEAM CORNER
N.T.S.
HORIZ. REINF.
VERT. REINF.
BAR POSITIONERS @ 16OD MAX.
FOUNDATION WALL
INVERTED BOND BEAM UNIT
FOUNDATION REINFORCEMENT
REINFORCING BAR (TYP)
FILL ALL CELL W/ REINFORCING SOLID W/ GROUT
PLAN VIEW
SINGLE WYTHE WALL
N.T.S.
TYPICAL CMU WALL DETAILS
22x34 SCALE: NTS
11x17 SCALE: NTS
2
METAL ROOF
PRE-ENGINEERED ROOF TRUSSES @ 24" O.C. (BY OTHERS)
3/4" PLYWOOD
1x6 FACIA (TYP)
2x8 PLATE (TYP)
SPACE FOR PROPANE GENERATORS
TYPICAL 8x8x16 SPLIT-FACE CMU BLOCK WALL
BOND BEAM W/ (2) #4 REBAR (TYP 4 PLCS EA WALL)
8" THK CONCRETE SLAB W/ #4 REBAR @ 12" O.C., E.W. @ MID DEPTH
(E) GRADE EL 0'-0" (ASSUMED)
UNDISTURBED NATIVE SOIL
8" CRUSHED AGGREGATE COMPACTED TO 95% MAX DRY UNIT WT PER ASTM D1557
± 12'-0"
8'-8"
1'-4"
4"
12
4
PROPANE GENERATOR SHELTER SECTION
22x34 SCALE: 1/2" = 1'-0"
11x17 SCALE: 1/4" = 1'-0"
1
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PROJECT CONSULTANTS:
CAPSTONE
WIRELESS SOLUTIONS
PLANS PREPARED BY:
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16520 WOODINVILLE-REDMOND ROAD, SUITE 210
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PHONE: 425-487-5732 FAX: 425-487-1734
EMAIL: info@cornerstone-engr.com
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PROJECT INFO:
RN05
DARRINGTON
NF-1855 ROAD
DARRINGTON, WA 98241
SKAGIT COUNTY
ISSUED FOR:
CONSTRUCTION
REV. DATE DESCRIPTION BY CK
3 02-27-09 GENERATOR RELOCATION JRF MWO
2 02-16-09 ADDITION OF STRUCT DWG'S JRF MWO
1 01-26-09 RE-ISSUE FOR CONSTRUCTION JRF MWO
0 10-08-08 ISSUE FOR CONSTRUCTION JRF MWO
A 08-04-08 ISSUE FOR CLIENT REVIEW JRF MWO
DRAWN BY: JRF
CHK.: MWO
APV: MWO
CURRENT ISSUE DATE:
02-27-09
LICENSURE:
STATE OF OREGON
MARK W. OLSEN
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 12/31/10
DRAWING INFORMATION:
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DRAWING TITLE:
CONSTRUCTION DETAILS
DRAWING NUMBER:
A-3.1
3
CEI JOB NUMBER: 08-66061

GENERAL
CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTION STABILITY AND TEMPORARY BRACING AS NECESSARY UNTIL PERMANENT SUPPORT AND STIFFENERS ARE SAFELY INSTALLED.

DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED, BUT ARE OF A SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ENGINEER.

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR BIDDING AND CONSTRUCTION.

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS AND DETAILS PRIOR TO FABRICATION OR CONSTRUCTION.

CODE
ALL MATERIALS, WORKMANSHIP, DESIGN AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS AND THE INTERNATIONAL BUILDING CODE (IBC), 2006 EDITION. STANDARDS WHERE REFERENCED ON THE DRAWINGS SHALL BE THE LATEST EDITION.

DESIGN LOADS
SNOW LOAD = 350 psf
WIND LOAD: (OTHER STRUCTURE)
BASIC WIND SPEED = 85 MPH
EXPOSURE "B" (3-SECOND GUST)
IMPORTANCE FACTOR = 1.0 (STANDARD OCCUPANCY)
SEISMIC LOAD: (COMPONENTS)
S_s = 0.941g, S_1 = 0.307g, S_{DS} = 0.705g
SEISMIC DESIGN CATEGORY "D"
IMPORTANCE FACTOR = 1.00

STRUCTURAL STEEL
ALL STRUCTURAL STEEL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 22 OF THE INTERNATIONAL BUILDING CODE 2006 UNLESS NOTED OTHERWISE.

STRUCTURAL MATERIAL: (UNLESS NOTED OTHERWISE)

WIDE FLANGE & CHANNELS	-ASTM A-992
CONNECTION MATERIAL, EMBEDED ITEMS, ANGLES, BASE PLATE, & MISC. STEEL	-ASTM A-36
STRUCTURAL TUBE	-ASTM A-500, Grade B
STRUCTURAL PIPE	-ASTM A-53, Grade B

ALL WELDING SHALL BE DONE USING 70ksi LOW HYDROGEN ELECTRODES AND WELDING SHALL CONFORM TO AWS D1.1-96. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE 5.8 IN AWS D1.1-96.

BOLTED CONNECTIONS SHALL USE BEARING TYPE GALVANIZED ASTM A325 BOLTS AND SHALL HAVE A MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.

ALL STEEL SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A123.

LUMBER

2x STUDS	DOUGLAS FIR NO. 2 OR BETTER (Fb=900 psi)
POST & TIMBER	DOUGLAS FIR NO. 1 OR BETTER (Fb=1,200 psi)
PLATE / BLOCK	DOUGLAS FIR NO. 2 OR BETTER (Fb=900 psi)
SHEATHING	7/16" PLYWOOD/CDX EXP 1 GRADE

ALL GRADES SHALL BE CONFORM TO CURRENT "WWPA GRADING RULES FOR WESTERN LUMBER". ALL LUMBER SHALL BE PRESSURE- TREATED WITH AN APPROVED PRESERVATIVE.

MASONRY REINFORCING STEEL
REINFORCING SHALL CONFORM TO IBC SECTION 2103.11. DEFORMED BARS SHALL BE GRADE 60 AND SHALL BE SECURELY PLACED IN ACCORDANCE WITH IBC SECTION 2104.

MASONRY NOTES
ALL MASONRY CONSTRUCTION SHALL BE IN ACCORDANCE WITH CHAPTER 21 OF THE IBC 2006.

ALL MASONRY SHALL BE LAID RUNNING AT BOND AND FULLY GROUTED, UNO.

CMU: GRADE "N", PER ASTM 000-71, LAID IN A RUNNING BOND. DESIGN f'm = 1500 psi
MORTAR: TYPE "S", f'c = 2000 psi @ 28 DAYS 1 PART PORTLAND CEMENT, 1/2 PART HYDRATED LIME, 4 1/2 PARTS AGGREGATE.
GROUT: f'c = 2000 PSI @ 28 DAYS. SOLID GROUT ALL CELLS CONTAINING REINFORCEMENT OR INSERTS.

PROVIDE 1#5 VERTICAL FULL HEIGHT IN FOUR CORES AT ALL JUNCTIONS, THREE CORES AT ALL CORNERS, AND ONE CORE AT ALL JAMBS. ALL 8" MASONRY BLOCK WALLS SHALL HAVE A MINIMUM OF 1#5 VERTICAL BAR EVERY 4'-0" O.C. FOR FULL HEIGHT OF WALL UNLESS NOTED OTHERWISE. PROVIDE MATCHING DOWELS IN FOUNDATIONS.

BOND BEAMS REINFORCED WITH 2-#5 CONTINUOUS ARE TO BE PROVIDED ABOVE AND BELOW EACH OPENING AND AT THE TOP OF ALL WALLS. BOND BEAMS SHALL EXTEND NOT LESS THAN 2'-8" PAST THE OPENING. PROVIDE CORNER BARS AT ALL INTERSECTIONS. LAP CORNER BARS AT LEAST 2'-8'.

PROVIDE #9 A.S.W.D. GALVANIZED K-WEB REINFORCING EVERY SECOND COURSE. ONLY TYPE "S" MORTAR WITH MINIMUM COMPRESSIVE CUBE STRENGTH OF 2,000 PSI SHALL BE USED.

FILL CELLS WITH 2,000 PSI GROUT (3/8" AGGREGATE, 9" SLUMP). VIBRATE TO COMPLETELY FILL CELLS.

CLEAN-OUT OPENINGS SHALL BE PROVIDED AT THE BOTTOM OF CELLS TO BE FILLED WITH GROUT ABOVE EACH BOND LEVEL AND/OR FLOOR LEVEL.

LAP SPLICE BARS 48 BAR DIAMETERS AT SPLICE JOINTS, TYPICAL.

CONCRETE
WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES, SAFETY REGULATIONS AND UNLESS OTHERWISE NOTED, THE LATEST REVISION OF ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". PROCEDURES FOR THE PROTECTION OF EXCAVATIONS AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION.

CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE STATE REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE.

PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUITABLE FOR THE INSTALLATION METHOD UTILIZED AND SHALL RESULT IN DURABLE CONCRETE FOR RESISTANCE TO LOCAL ANTICIPATED AGGRESSIVE ACTIONS. THE DURABILITY REQUIREMENTS OF ACI 318 CHAPTER 4 SHALL BE SATISFIED BASED ON THE CONDITIONS EXPECTED AT THE SITE. AS A MINIMUM, ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF f'c = 2,500 psi AT 28 DAYS TESTING UNLESS NOTED OTHERWISE ON DRAWINGS.

ALL REINFORCING STEEL SHALL BE DEFORMED AND CONFORM TO THE REQUIREMENTS OF ASTM-A-615 GRADE 60, AND BE DETAILED IN ACCORDANCE WITH ACI-318 UNLESS OTHERWISE NOTED.

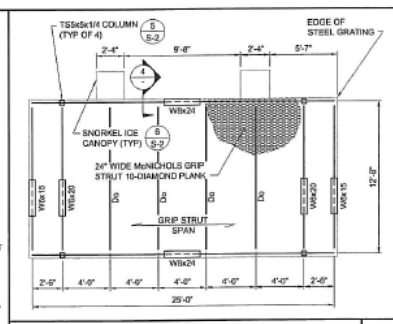
WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.

MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE 3 INCHES UNLESS OTHERWISE NOTED.

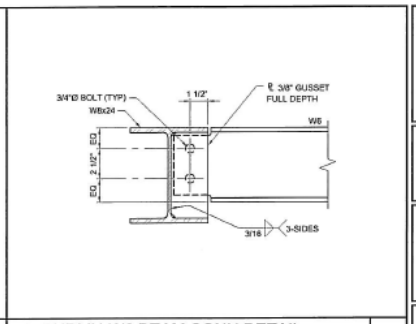
APPROVED SPACERS SHALL BE ATTACHED INTERMITTENTLY TO REINFORCEMENT TO INSURE 3" MINIMUM COVER FOR ALL REINFORCEMENT, UNLESS NOTED OTHERWISE.

READY MIX CONCRETE SHALL BE IN ACCORDANCE WITH ASTM-C-94.

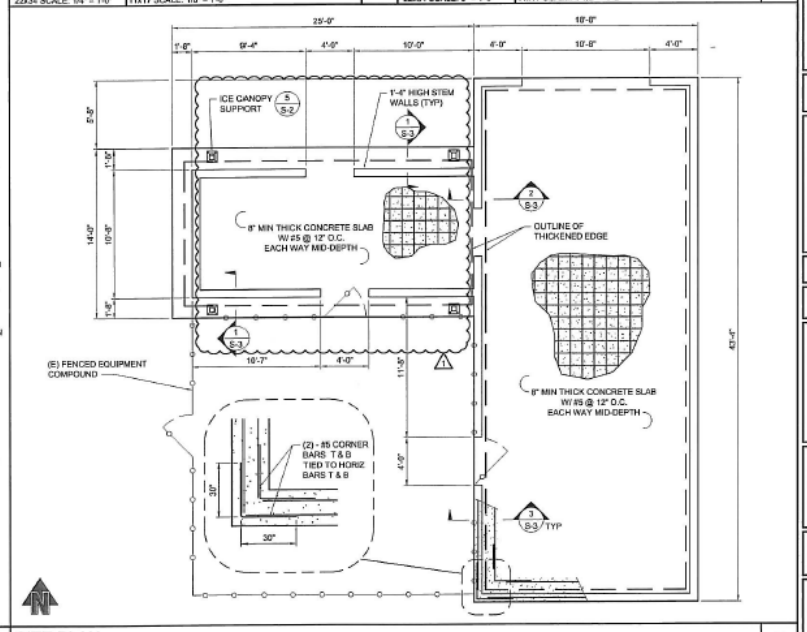
STRUCTURAL NOTES 1
22x34 SCALE: NOT USED | 11x17 SCALE: NOT USED



ICE CANOPY PLAN 3
22x34 SCALE: 1/4" = 1'-0" | 11x17 SCALE: 1/8" = 1'-0"



W8 PURLIN-W6 BEAM CONN DETAIL 4
22x34 SCALE: 3" = 1'-0" | 11x17 SCALE: 1 1/2" = 1'-0"



SITE PLAN 2
22x34 SCALE: 1/4" = 1'-0" | 11x17 SCALE: 1/8" = 1'-0"

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PROJECT CONSULTANTS:
CAPSTONE WIRELESS SOLUTIONS

PLANS PREPARED BY:
CORNERSTONE ENGINEERING, INC.
16625 WOODINVILLE-REDMOND RD NE, SUITE 210
WOODINVILLE, WA 98072
PHONE: 425.487.1732 FAX: 425.487.9734
EMAIL: cei@cornerstoneengr.com
WWW.CORNERSTONEENGR.COM

PROJECT INFO:
RN05
DARRINGTON
NF-1055 ROAD
DARRINGTON, WA 98241
SKAGIT COUNTY

ISSUED FOR:
CONSTRUCTION

REV.	DATE:	DESCRIPTION	BY	CK
1	02-17-09	RE-ISSUE FOR CONSTRUCTION	JRF	JDG
0	02-10-09	ISSUE FOR CONSTRUCTION	LJS	JDG

DRAWN BY:	CHK:	APV:
LJS	JDG	MWO

CURRENT ISSUE DATE:
02-17-09

LICENSURE:
STATE OF WASHINGTON
JOHN D. GOLDSMITH
STRUCTURAL
EXPIRES 02/15/10

DRAWING INFORMATION:
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DRAWING TITLE:
STRUCTURAL NOTES & DETAILS

DRAWING NUMBER:
S-1 | 1

CEI JOB NUMBER: 08-86361

GENERAL
CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTION STABILITY AND TEMPORARY BRACING AS NECESSARY UNTIL PERMANENT SUPPORT AND STIFFENERS ARE SAFELY INSTALLED.

DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED, BUT ARE OF A SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ENGINEER.

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR BIDDING AND CONSTRUCTION.

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS AND DETAILS PRIOR TO FABRICATION OR CONSTRUCTION.

CODE
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DESIGN LOADS
SNOW LOAD = 350 psf
WIND LOAD: (OTHER STRUCTURE)
BASIC WIND SPEED = 85 MPH
EXPOSURE "B" (3-SECOND GUST)
IMPORTANCE FACTOR = 1.0 (STANDARD OCCUPANCY)
SEISMIC LOAD: (COMPONENTS)
S_s = 0.941g, S_1 = 0.307g, S_{DS} = 0.705g
SEISMIC DESIGN CATEGORY "D"
IMPORTANCE FACTOR = 1.00

STRUCTURAL STEEL
ALL STRUCTURAL STEEL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 22 OF THE INTERNATIONAL BUILDING CODE 2006 UNLESS NOTED OTHERWISE.

STRUCTURAL MATERIAL: (UNLESS NOTED OTHERWISE)

WIDE FLANGE & CHANNELS	-ASTM A-992
CONNECTION MATERIAL, EMBEDDED ITEMS, ANGLES, BASE PLATE, & MISC. STEEL	-ASTM A-36
STRUCTURAL TUBE	-ASTM A-500, Grade B
STRUCTURAL PIPE	-ASTM A-53, Grade B

ALL WELDING SHALL BE DONE USING 70ksi LOW HYDROGEN ELECTRODES AND WELDING SHALL CONFORM TO AWS D1.1-96. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE 5.8 IN AWS D1.1-96.

BOLTED CONNECTIONS SHALL USE BEARING TYPE GALVANIZED ASTM A325 BOLTS AND SHALL HAVE A MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.

ALL STEEL SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A123.

LUMBER

2x STUDS	DOUGLAS FIR NO. 2 OR BETTER (Fb=900 psi)
POST & TIMBER	DOUGLAS FIR NO. 1 OR BETTER (Fb=1,200 psi)
PLATE / BLOCK	DOUGLAS FIR NO. 2 OR BETTER (Fb=900 psi)
SHEATHING	7/16" PLYWOOD/CDX EXP 1 GRADE

ALL GRADES SHALL BE CONFORM TO CURRENT "WWPA GRADING RULES FOR WESTERN LUMBER". ALL LUMBER SHALL BE PRESSURE- TREATED WITH AN APPROVED PRESERVATIVE.

MASONRY REINFORCING STEEL
REINFORCING SHALL CONFORM TO IBC SECTION 2103.11. DEFORMED BARS SHALL BE GRADE 60 AND SHALL BE SECURELY PLACED IN ACCORDANCE WITH IBC SECTION 2104.

MASONRY NOTES
ALL MASONRY CONSTRUCTION SHALL BE IN ACCORDANCE WITH CHAPTER 21 OF THE IBC 2006.

ALL MASONRY SHALL BE LAID RUNNING AT BOND AND FULLY GROUTED, UNO.

CMU: GRADE "N", PER ASTM C90-71, LAID IN A RUNNING BOND. DESIGN f'm = 1500 psi
MORTAR: TYPE "S", f'c = 2000 psi @ 28 DAYS 1 PART PORTLAND CEMENT, 1/2 PART HYDRATED LIME, 4 1/2 PARTS AGGREGATE.
GROUT: f'c = 2000 PSI @ 28 DAYS. SOLID GROUT ALL CELLS CONTAINING REINFORCEMENT OR INSERTS.

PROVIDE #5 VERTICAL FULL HEIGHT IN FOUR CORES AT ALL JUNCTIONS, THREE CORES AT ALL CORNERS, AND ONE CORE AT ALL JAMBS. ALL 8" MASONRY BLOCK WALLS SHALL HAVE A MINIMUM OF #5 VERTICAL BAR EVERY 4'-0" O.C. FOR FULL HEIGHT OF WALL UNLESS NOTED OTHERWISE. PROVIDE MATCHING DOWELS IN FOUNDATIONS.

BOND BEAMS REINFORCED WITH 2-#5 CONTINUOUS ARE TO BE PROVIDED ABOVE AND BELOW EACH OPENING AND AT THE TOP OF ALL WALLS. BOND BEAMS SHALL EXTEND NOT LESS THAN 2'-0" PAST THE OPENING. PROVIDE CORNER BARS AT ALL INTERSECTIONS. LAP CORNER BARS AT LEAST 2'-6".

PROVIDE #9 A.S.W.D. GALVANIZED K-WEB REINFORCING EVERY SECOND COURSE. ONLY TYPE "S" MORTAR WITH MINIMUM COMPRESSIVE CUBE STRENGTH OF 2,000 PSI SHALL BE USED.

FILL CELLS WITH 2,000 PSI GROUT (3/8" AGGREGATE, 9" SLUMP). VIBRATE TO COMPLETELY FILL CELLS.

CLEAN-OUT OPENINGS SHALL BE PROVIDED AT THE BOTTOM OF CELLS TO BE FILLED WITH GROUT ABOVE EACH BOND LEVEL AND/OR FLOOR LEVEL.

LAP SPLICE BARS 48 BAR DIAMETERS AT SPLICE JOINTS, TYPICAL.

CONCRETE
WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES, SAFETY REGULATIONS AND UNLESS OTHERWISE NOTED, THE LATEST REVISION OF ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". PROCEDURES FOR THE PROTECTION OF EXCAVATIONS AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION.

CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE STATE REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE.

PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUITABLE FOR THE INSTALLATION METHOD UTILIZED AND SHALL RESULT IN DURABLE CONCRETE FOR RESISTANCE TO LOCAL ANTICIPATED AGGRESSIVE ACTIONS. THE DURABILITY REQUIREMENTS OF ACI 318 CHAPTER 4 SHALL BE SATISFIED BASED ON THE CONDITIONS EXPECTED AT THE SITE. AS A MINIMUM, ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF F'c = 2,500 psi AT 28 DAYS TESTING UNLESS NOTED OTHERWISE ON DRAWINGS.

ALL REINFORCING STEEL SHALL BE DEFORMED AND CONFORM TO THE REQUIREMENTS OF ASTM-A-615 GRADE 60, AND BE DETAILED IN ACCORDANCE WITH ACI-318 UNLESS OTHERWISE NOTED.

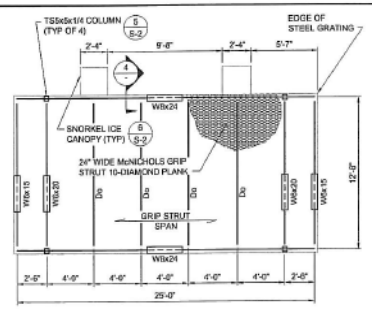
WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.

MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE 3 INCHES UNLESS OTHERWISE NOTED.

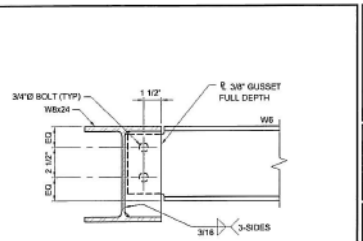
APPROVED SPACERS SHALL BE ATTACHED INTERMITTENTLY TO REINFORCEMENT TO INSURE 3" MINIMUM COVER FOR ALL REINFORCEMENT, UNLESS NOTED OTHERWISE.

READY MIX CONCRETE SHALL BE IN ACCORDANCE WITH ASTM-C-94.

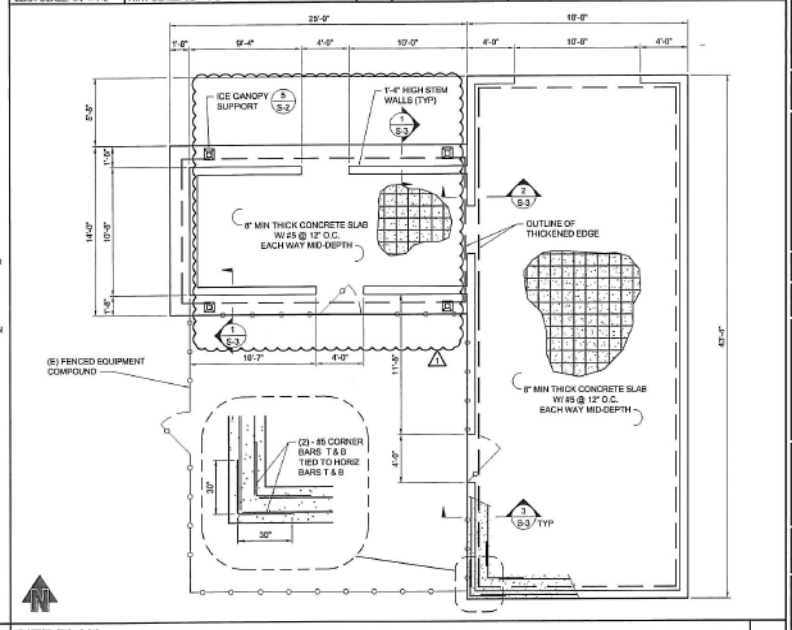
STRUCTURAL NOTES | 1
22x34 SCALE: NOT USED | 11x17 SCALE: NOT USED



ICE CANOPY PLAN | 3
22x34 SCALE: 1/4" = 1'-0" | 11x17 SCALE: 1/8" = 1'-0"



W8 PURLIN-W6 BEAM CONN DETAIL | 4
22x34 SCALE: 3" = 1'-0" | 11x17 SCALE: 1 1/2" = 1'-0"



SITE PLAN | 2
22x34 SCALE: 1/4" = 1'-0" | 11x17 SCALE: 1/8" = 1'-0"

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PROJECT CONSULTANTS:
CAPSTONE WIRELESS SOLUTIONS

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NF-1955 ROAD
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SKAGIT COUNTY

ISSUED FOR:
CONSTRUCTION

REV.	DATE	DESCRIPTION	BY	CK
1	02-17-09	RE-ISSUE FOR CONSTRUCTION	JRF	JDG
0	02-10-09	ISSUE FOR CONSTRUCTION	LJS	JDG

DRAWN BY: LJS | CHK: JDG | APV: MWO

CURRENT ISSUE DATE:
02-17-09

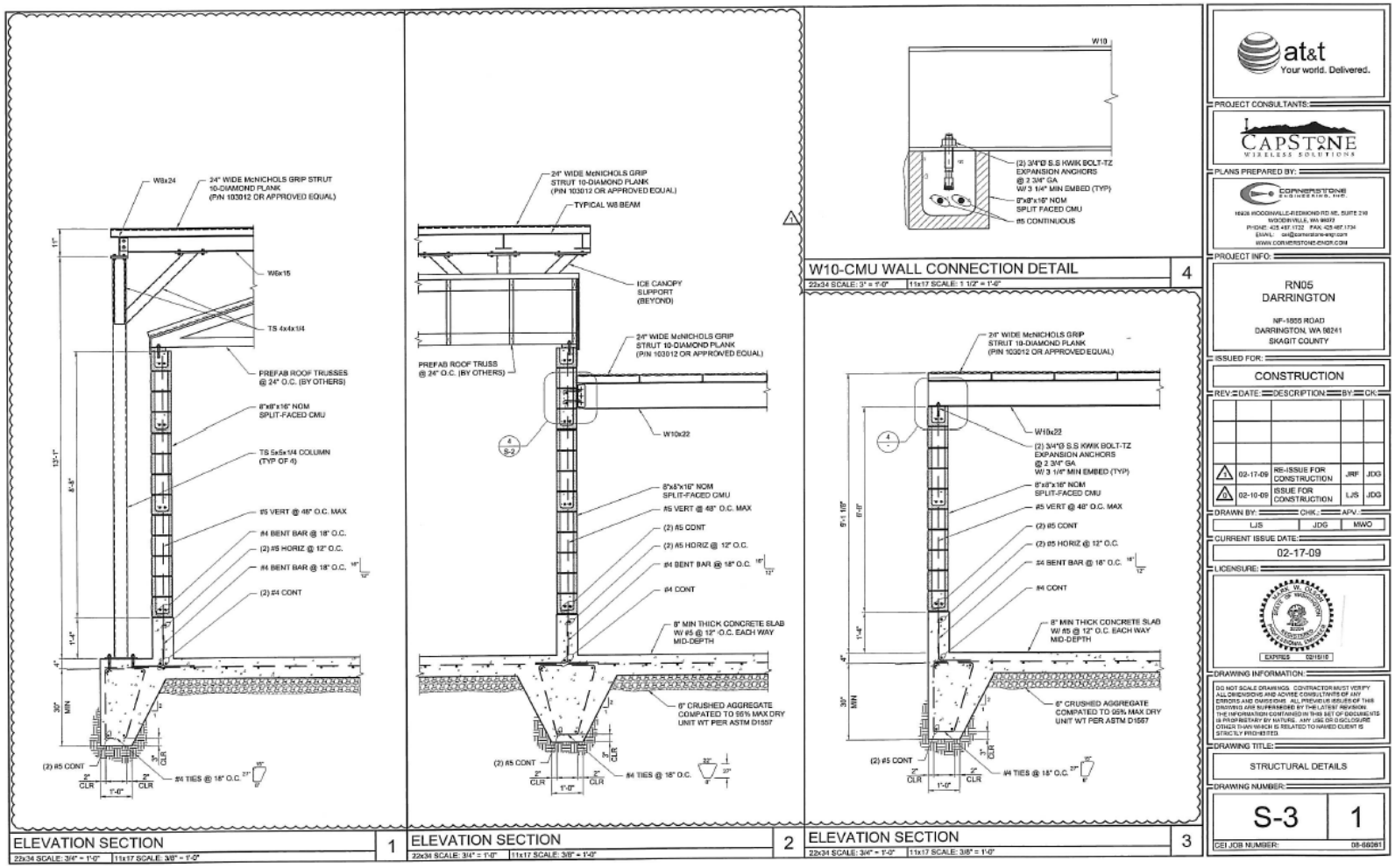
LICENSURE:
STATE OF WASHINGTON
JOHN D. GOODRICH
STRUCTURAL ENGINEER
EXPIRES 02/19/10

DRAWING INFORMATION:
DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS IF ANY ERRORS AND OMISSIONS. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN WHICH IS RELATED TO NAMED CLIENT IS STRICTLY PROHIBITED.

DRAWING TITLE:
STRUCTURAL NOTES & DETAILS

DRAWING NUMBER:
S-1 | 1

CEI JOB NUMBER: 08-66261


W8x24
2/4" WIDE McNICHOLS GRIP STRUT 10-DIAMOND PLANK (P/N 103012 OR APPROVED EQUAL)
W6x15
TS 4x4x1/4
PREFAB ROOF TRUSSES @ 24" O.C. (BY OTHERS)
8"x8"x16" NOM SPLIT-FACED CMU
TS 5x5x1/4 COLUMN (TYP OF 4)
#5 VERT @ 48" O.C. MAX
#4 BENT BAR @ 18" O.C.
(2) #5 HORIZ @ 12" O.C.
#4 BENT BAR @ 18" O.C.
(2) #4 CONT
(2) #5 CONT
#4 TIES @ 18" O.C.
ELEVATION SECTION
22x34 SCALE: 3/4" = 1'-0" 11x17 SCALE: 3/8" = 1'-0"
1
2/4" WIDE McNICHOLS GRIP STRUT 10-DIAMOND PLANK (P/N 103012 OR APPROVED EQUAL)
TYPICAL W8 BEAM
ICE CANOPY SUPPORT (BEYOND)
PREFAB ROOF TRUSS @ 24" O.C. (BY OTHERS)
W10x22
8"x8"x16" NOM SPLIT-FACED CMU
#5 VERT @ 48" O.C. MAX
(2) #5 CONT
(2) #5 HORIZ @ 12" O.C.
#4 BENT BAR @ 18" O.C.
#4 CONT
8" MIN THICK CONCRETE SLAB W/ #5 @ 12" O.C. EACH WAY MID-DEPTH
6" CRUSHED AGGREGATE COMPATED TO 95% MAX DRY UNIT WT PER ASTM D1557
(2) #5 CONT
#4 TIES @ 18" O.C.
ELEVATION SECTION
22x34 SCALE: 3/4" = 1'-0" 11x17 SCALE: 3/8" = 1'-0"
2
W10
(2) 3/4"Ø S.S KWIK BOLT-TZ EXPANSION ANCHORS @ 2 3/4" GA W/ 3 1/4" MIN EMBED (TYP)
8"x8"x16" NOM SPLIT FACED CMU
#5 CONTINUOUS
W10-CMU WALL CONNECTION DETAIL
22x34 SCALE: 3" = 1'-0" 11x17 SCALE: 1 1/2" = 1'-0"
4
2/4" WIDE McNICHOLS GRIP STRUT 10-DIAMOND PLANK (P/N 103012 OR APPROVED EQUAL)
W10x22
(2) 3/4"Ø S.S KWIK BOLT-TZ EXPANSION ANCHORS @ 2 3/4" GA W/ 3 1/4" MIN EMBED (TYP)
8"x8"x16" NOM SPLIT-FACED CMU
#5 VERT @ 48" O.C. MAX
(2) #5 CONT
(2) #5 HORIZ @ 12" O.C.
#4 BENT BAR @ 18" O.C.
#4 CONT
8" MIN THICK CONCRETE SLAB W/ #5 @ 12" O.C. EACH WAY MID-DEPTH
6" CRUSHED AGGREGATE COMPATED TO 95% MAX DRY UNIT WT PER ASTM D1557
(2) #5 CONT
#4 TIES @ 18" O.C.
ELEVATION SECTION
22x34 SCALE: 3/4" = 1'-0" 11x17 SCALE: 3/8" = 1'-0"
3
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PROJECT CONSULTANTS:
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ISSUED FOR:
CONSTRUCTION
REV: DATE: DESCRIPTION: BY: CK:
1 02-17-09 RE-ISSUE FOR CONSTRUCTION JRF JDG
0 02-10-09 ISSUE FOR CONSTRUCTION LJS JDG
DRAWN BY: LJS CHK.: JDG APV.: MWO
CURRENT ISSUE DATE:
02-17-09
LICENSURE:
STATE OF WASHINGTON
EXPIRES 02/15/10
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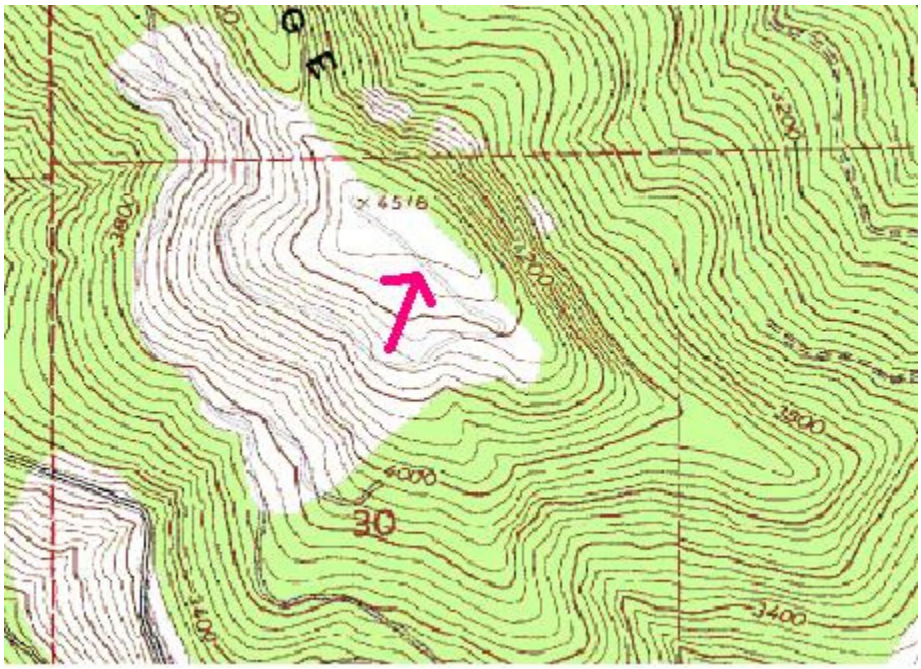
DRAWING TITLE:
STRUCTURAL DETAILS
DRAWING NUMBER:
S-3 1
CEI JOB NUMBER: 08-66061

APPENDIX B

Segelesen Ridge
Communications Facility for Seattle City Light
Mt. Baker – Snoqualmie National Forest



APPENDIX C

ROAD MAINTENANCE

Road 1855013 Maintenance Requirements

Maintenance of Road 1855013 for 1.25 miles and the existing locked gate will be performed by Seattle City Light and Verizon Wireless in proportion to the number of tenants each has at its site according to Forest Service standards as follows. Maintenance will be performed as often as needed to accommodate operations and safe access to the site, and prevent resource damage.

Road Maintenance Specifications:

T-811 Blading.

T-831 Ditch Maintenance.

T-834 Drainage Structure Maintenance.

T-842 Cutting Roadway Brushing.

T-851 Logging Out.

T-813 Spot Surfacing,

Maintenance Specifications

T-811 BLADING (2/02)

811.01 Description -

This work consists of surface blading the traveled way to a condition to facilitate traffic and provide proper drainage. Blading includes shaping the crown or slope of traveled way, berms and drainage dips in accordance with this specification. Compaction is required when shown on the road listing.

811.02 Maintenance Requirements

A. Timing - Perform surface blading during the contract period as often as needed to provide conditions stated for the maintenance level of the road.

B. General -

1. Blade and shape the existing traveled way and shoulders, including turnouts, to produce a surface which is uniform, consistent to grade and crowned or cross-