T-Mobile

ZONING JURISDICTION:

CITY OF MUKILTEO

SITE ID:

SE01458B

SITE NAME:

WEST BAKERVIEW - SCHLOSSER - SNOPUD

PROJECT TYPE:
REPLACEMENT

SITE LOCATION:
4822 103RD PL SW
MUKILTEO, WA 98275

FSA:
TAEC

LEGAL DESCRIPTION:

KAMIAK NO. 1 BLK 000 D-00 LOT 55 SUBJ TO ESE PUD 1 & GEN TEL

UTILITY COMPANIES:

POWER:
COMPANY: SNOPUD
CONTACT:
PHONE:
EMAIL:

BACKHAUL/AAV:
COMPANY:
CONTACT:
PHONE:
EMAIL:

PROJECT CONTACT LIST:

APPLICANT:
T-MOBILE USA, INC.
19807 NORTH CREEK PKWY N
BOTHELL, WA 98011
PHONE: 425-641-1140

PROPERTY OWNER:
JILL SCHLOSSER
4822 103RD PL
MUKILTEO, WA 98275

PROJECT A&E:
COMPANY: TAEC
CONTACT: PETER LUNDQUIST, PE
PHONE: (206) 713-9915
EMAIL: peter.lundquist@taec.net

SITE ACQUISITION:
COMPANY: TAEC
CONTACT: STEVEN KOPELMAN
PHONE: (770) 463-0463
EMAIL: steven.kopelman@taec.net

PROJECT MANAGER:
COMPANY: TAEC
CONTACT: ANDREA EYZAGUIRRE
PHONE: (425) 577-4720
EMAIL: andrea.eyzaguirre@taec.net

CONSTRUCTION MANAGER:
COMPANY: TAEC
CONTACT: JORDAN ABAD
PHONE: (206) 351-4009
EMAIL: jordan.abad@taec.net

RF ENGINEER:
T-MOBILE USA, INC.
CONTACT: FRANCISCO MONROY
EMAIL: Francisco.Monroy9@T-Mobile.com

PERMITTING:
COMPANY: TAEC
CONTACT: CHRIS DEVOIST
PHONE: (206) 949-3321
EMAIL: christopher.devoist@taec.net

SURVEYOR:
DUNCANSON COMPANY, INC.
CONTACT: KEVIN J. WALKER, PLS
PHONE: (206) 244-4141

TOWER OWNER:
SNOPUD
CONTACT: MOE MATTHEWS
PHONE: (425) 783-5681

DRAWING INDEX:

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SV1	EXISTING SITE SURVEY
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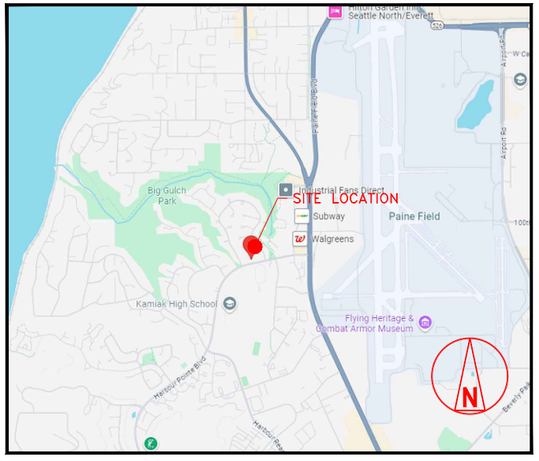
VICINITY MAP



LOCATION MAP

DRIVING DIRECTIONS:

FROM LOCAL T-MOBILE OFFICE (19807 NORTH CREEK PKWY N, BOTHELL, WA 98011)

1. HEAD SOUTHEAST TOWARD N CREEK PKWY
2. TURN LEFT TOWARD N CREEK PKWY
3. TURN LEFT TOWARD N CREEK PKWY
4. TURN RIGHT ONTO N CREEK PKWY
5. USE THE RIGHT LANE TO TURN RIGHT ONTO NE 195TH ST
6. TURN RIGHT TO MERGE ONTO I-405 N TOWARD EVERETT
7. CONTINUE ONTO WA-525 N
8. TURN LEFT ONTO HARBOUR POINTE BLVD
9. TURN RIGHT ONTO 48TH AVE W
10. TURN LEFT ONTO 103RD PL SW
11. KEEP LEFT TO STAY ON 103RD PL SW
12. DESTINATION WILL BE ON THE LEFT

REVIEWERS SHALL CLEARLY PLACE INITIALS ADJACENT TO EACH REDLINE NOTE AS DRAWINGS ARE BEING REVIEWED

APPROVED BY:	DATE:	SIGNATURE:	APPROVED BY:	DATE:	SIGNATURE:
PROJECT MANAGER:			RF ENGINEER:		
SITE ACQUISITION:			OPERATIONS MANAGER:		
ZONING:			DEVELOPMENT MANAGER:		
CONSTRUCTION MANAGER:			REGULATORY:		
CONSTRUCTION MANAGER:					

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PROJECT INFORMATION:

CODE INFORMATION:

ZONING CLASSIFICATION:	RD 7.2 SINGLE-FAMILY RESIDENTIAL
BUILDING CODE:	IBC 2021
CONSTRUCTION TYPE:	IIB
OCCUPANCY:	U,S-2
JURISDICTION:	CITY OF MUKILTEO
PROPOSED BUILDING USE:	UNMANNED TELECOM:

SITE LOCATION (NAD83):

LATITUDE:	47° 54' 16.21"N (47.704502°N)
LONGITUDE:	122° 17' 58.70"W (-122.299639°W)
TOP OF STRUCTURE:	569.5' AMSL 86.1' AGL
BASE OF STRUCTURE:	483.4' AMSL 0.0' AGL

PROJECT LEASE AREA:
120 SF

PARCEL NUMBER:
00650500005500

NEW IMPERVIOUS AREA:
EXISTING: ± 3374 SF
NEW: ±136 SF

AREA OF PARCEL:
0.26 ACRES

GENERAL INFORMATION:

PARKING REQUIREMENTS ARE UNCHANGED TRAFFIC IS UNAFFECTED
SIGNAGE IS PROPOSED

PROJECT DESCRIPTION:

T-MOBILE PROPOSES (PER RFDS V1, 03/06/2025) TO MODIFY AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY WITH:

THE REMOVAL OF:
- PORTION OF EXISTING WOOD FENCE

THE ADDITION OF:
- (1) 10'x12' EQUIPMENT SHELTER
- (2) INDOOR RACKS (1-23", 1-19")
- (2) ASIM IN 19" RACK
- (3) ABIP IN 19" RACK
- (1) AMID IN 19" RACK
- (1) ROUTER IN 19" RACK
- (1) VOLTAGE BOOSTER W/ 2 MODULES AND EXTRA AMPLIFIER
- (16) BATTERIES IN 23" RACK
- (2) HYBRID 6X24 AT 50m
- (1) AIR HANDLER
- (1) OUTDOOR CONDENSER
- (1) WOOD ACCESS GATE

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

RECEIVED 10/16/2025

PLANS PREPARED

T-Mobile
19807 NORTH CREEK PKWY N
BOTHELL, WA 98011

PLANS PREPARED BY:

Technology Associates
SEATTLE MARKET OFFICE
1455 NW LEARY WAY, STE. 400
SEATTLE, WA 98107

JURISDICTION APPROVAL SEAL:

ENGINEERING SEAL:

PETER C. LUNDQUIST — STATE OF WASHINGTON — 41393 — CIVIL — PROFESSIONAL ENGINEER
08.13.2025

DRAWING NOTICE:

REVISIONS:

DESCRIPTION	DATE	BY	REV
ISSUED FOR 90% CD	07/30/2025	MGM	A
ISSUED FOR 100%CD	08/13/2025	MGM	0

SITE NAME:
WEST BAKERVIEW - SCHLOSSER - SNOPUD

SITE NUMBER:
SE01458B

SITE ADDRESS:
4822 103RD PL SW
MUKILTEO, WA 98275

SHEET DESCRIPTION:
TITLE SHEET

SHEET NUMBER:
T-1

GENERAL NOTES

1. THIS FACILITY IS EXEMPT FROM HANDICAP REQUIREMENTS PER 2021 INTERNATIONAL BUILDING CODE SECTION 1103.2.9. THIS FACILITY IS NON-OCCUPIABLE SPACE AND ENTERED ONLY BY SERVICE PERSONNEL. THIS SPACE IS NOT FOR HUMAN OCCUPANCY.
2. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING HIS BID. ANY DISCREPANCIES, CONFLICTS OR OMISSIONS SHALL BE REPORTED TO THE ENGINEER PRIOR TO SUBMITTING BIDS, AND PROCEEDING WITH ANY WORK.
3. THE CONTRACTOR SHALL NOTIFY ENGINEER OF ANY ERRORS, OMISSIONS, OR DISCREPANCIES AS THEY MAY BE DISCOVERED IN THE PLANS, SPECIFICATIONS, & NOTES PRIOR TO STARTING CONSTRUCTION. INCLUDING BUT NOT LIMITED BY DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERRORS, OMISSION, OR INCONSISTENCY AFTER THE START OF CONSTRUCTION WHICH HAS NOT BEEN BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER AND SHALL INCUR ANY EXPENSES TO RECTIFY THE SITUATION. THE METHOD OF CORRECTION SHALL BE APPROVED BY THE ARCHITECT OR THE ENGINEER RESPONSIBLE OF THE PROJECT.
4. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR HAS THE RESPONSIBILITY TO LOCATE ALL EXISTING UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR OR SUBCONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGE TO THE UTILITIES CAUSED DURING THE EXECUTION OF THE WORK. CONTACT USA DIG ALERT @ 800-227-2600
5. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO PROPOSED OR EXISTING SURFACES, STRUCTURES OR EQUIPMENT SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE PROPERTY OWNER. THE CONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGED AREAS.
6. A COPY OF THE APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE GOVERNING AGENCY, AND BY LAW SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL CONSTRUCTION SETS REFLECT THE SAME INFORMATION AS THE APPROVED PLANS. THE CONTRACTOR SHALL ALSO MAINTAIN ONE SET OF PLANS AT THE SITE FOR THE PURPOSE OF DOCUMENTING ALL AS-BUILT CHANGES, REVISIONS, ADDENDA, OR CHANGE ORDERS. THE CONTRACTOR SHALL FORWARD THE AS-BUILT/HIRED DRAWINGS TO THE ARCHITECT OR THE ENGINEER RESPONSIBLE OF THE PROJECT AT THE CONCLUSION OF THE PROJECT.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE THE WORK IS IN PROGRESS UNTIL THE JOB IS COMPLETE.
8. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER, AND TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER OR GOVERNING AGENCY.
9. ALL CONSTRUCTION THROUGH THE PROJECT SHALL CONFORM TO THE LATEST I.B.C. AND ALL OTHER GOVERNING CODES, INCLUDING THE THE MOST RESTRICTIVE CODE SHALL GOVERN.
10. THE CONTRACTOR AND SUBCONTRACTOR SHALL COMPLY WITH ALL LOCAL AND STATE REGULATIONS INCLUDING ALL OSHA REQUIREMENTS.
11. WHEN REQUIRED STORAGE OF MATERIALS OCCURS, THEY SHALL BE EVENLY DISTRIBUTED OVER THE FLOOR OR ROOF SO AS NOT TO EXCEED THE DESIGNED LIVE LOADS FOR THE STRUCTURE. TEMPORARY SHORING OR BRACING SHALL BE PROVIDED WHERE THE STRUCTURE OR SOIL HAS NOT ATTAINED THE DESIGN STRENGTH FOR THE CONDITIONS PRESENT.
12. THE CONTRACTOR SHALL SUPERVISE AND COORDINATE ALL WORK, USING HIS PROFESSIONAL KNOWLEDGE AND SKILLS. HE IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCING AND COORDINATING ALL PORTIONS OF THE WORK UNDER THE PROJECT.
13. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTIONS WITH RESPECT TO THE WORK TO COMPLETE THE PROJECT. BUILDING PERMIT APPLICATIONS SHALL BE FILED BY THE OWNER OR AUTHORIZED AGENT. CONTRACTOR SHALL OBTAIN THE PERMIT AND MAKE FINAL PAYMENT OF SAID DOCUMENT.
14. ALL DIMENSIONS TAKE PRECEDENCE OVER SCALE. DRAWINGS ARE NOT TO BE SCALED UNDER ANY CIRCUMSTANCES.
15. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS OR SUPPORTS FOR INSTALLATION OF ITEMS INDICATED ON THE DRAWINGS.
16. THE CONTRACTOR SHALL PROVIDE THE FIRE MARSHALL OR U.L APPROVED MATERIALS TO FILL/SEAL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES.
17. PROPOSED CONSTRUCTION ADDED TO EXISTING CONSTRUCTION SHALL BE MATCHED IN FORM, TEXTURE, MATERIAL AND PAINT COLOR EXCEPT AS NOTED IN THE PLANS.
18. THE CONTRACTOR IS TO PROVIDE PORTABLE FIRE EXTINGUISHERS HAVING A MINIMUM 2A:10-B:C RATING WITHIN 75FT. OF TRAVEL TO ALL PORTIONS OF THE CONSTRUCTION AREA. (2021 INTERNATIONAL BUILDING CODE 906.1.1 AND SECTION 906.3.1)
19. MATERIALS TESTING SHALL BE TO THE LATEST STANDARDS AVAILABLE AS REQUIRED BY THE LOCAL GOVERNING AGENCY RESPONSIBLE FOR APPROVING THE RESULTS.
20. ALL GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO BE USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OTHERWISE.
21. ALL DEBRIS AND REFUSE IS TO BE REMOVED FROM THE PROJECT. PREMISES SHALL BE LEFT IN A CLEAN BROOM FINISHED CONDITION AT ALL TIMES.
22. BUILDING INSPECTORS AND/OR OTHER BUILDING OFFICIALS ARE TO BE NOTIFIED PRIOR TO ANY GRADING AND CONSTRUCTION EFFORT AS MANDATED BY THE GOVERNING AGENCY.
23. ALL SYMBOLS AND ABBREVIATIONS ARE CONSIDERED CONSTRUCTION INDUSTRY STANDARDS. IF A CONTRACTOR HAS A QUESTION REGARDING THEIR EXACT MEANING THE ARCHITECT OR THE ENGINEER RESPONSIBLE OF THE PROJECT SHALL BE NOTIFIED FOR CLARIFICATIONS.
24. SITE CONTRACTOR TO CALL DIG ALERT (1-800-227-2600) TO LOCATE ANY AND ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION.
25. ALL FACILITIES TO BE INSTALLED ARE UNMANNED. NO (E) PARKING SPACES WILL BE USED OR REMOVED BY THIS PROJECT.
26. PRIOR TO THE ISSUANCE OF ANY CONSTRUCTION PERMITS, THE APPLICANT SHALL INCORPORATE ANY CONSTRUCTION BEST MANAGEMENT PRACTICES NECESSARY TO COMPLY WITH THE CITY'S MUNICIPAL CODES INTO THE CONSTRUCTION PLANS OR SPECIFICATIONS.
27. PRIOR TO THE ISSUANCE OF ANY CONSTRUCTION PERMITS, THE APPLICANT SHALL SUBMIT A WATER POLLUTION CONTROL PLAN WPCP). THE WPCP SHALL BE PREPARED IN ACCORDANCE WITH THE GUIDELINES IN APPENDIX E OF THE CITY'S STORM WATER STANDARDS.
28. THIS PROJECT PROPOSES NO DEVELOPMENT IMPROVEMENTS OUTSIDE THE EXISTING BUILDING FOOTPRINT FOR THIS DISCRETIONARY REVIEW AND THEREFORE DOES NOT REQUIRE ANY PERMANENT STORM WATER BEST MANAGEMENT PRACTICES.
29. THIS IS ROOFTOP INSTALLATION ON AN EXISTING FACILITY AND NO GROUND DISTURBANCE OR TRENCHING IS PROPOSED BY THIS PROJECT.
30. THIS PROJECT PROPOSES NO WORK WITHIN THE PUBLIC RIGHT-OF-WAY.

STORM WATER QUALITY NOTES CONSTRUCTION BMPS:

THIS PROJECT SHALL COMPLY WITH ALL REQUIREMENTS OF THE STATE PERMIT.

NOTES 1-6 BELOW REPRESENT KEY MINIMUM REQUIREMENTS FOR CONSTRUCTION BMP'S.

1. SUFFICIENT BMPS MUST BE INSTALLED TO PREVENT SILT, MUD OR OTHER CONSTRUCTION DEBRIS FROM BEING TRACKED INTO THE ADJACENT STREET(S) OR STORM WATER CONVEYANCE SYSTEMS DUE TO CONSTRUCTION VEHICLES OR ANY OTHER CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY SUCH DEBRIS THAT MAY BE IN THE STREET AT THE END OF EACH WORK DAY OR AFTER A STORM EVENT THAT CAUSES A BREECH IN THE INSTALLED CONSTRUCTION BMPS.
2. ALL STOCK PILES OF UN-COMPACTED SOIL AND/OR BUILDING MATERIALS THAT ARE INTENDED TO BE LEFT UNPROTECTED FOR A PERIOD GREATER THAN SEVEN CALENDAR DAYS ARE TO BE PROVIDED WITH EROSION AND SEDIMENT CONTROLS, SUCH SOIL MUST BE PROTECTED EACH DAY WHEN THE PROBABILITY OF RAIN IS 40% OR GREATER.
3. A CONCRETE WASHOUT SHALL BE PROVIDED ON ALL PROJECTS WHICH PROPOSE THE CONSTRUCTION OF ANY CONCRETE IMPROVEMENTS THAT ARE TO BE POURED IN PLACE ON THE SITE.
4. ALL EROSION/SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED IN WORKING ORDER AT ALL TIMES.
5. ALL SLOPES THAT ARE CREATED OR DISTURBED BY CONSTRUCTION ACTIVITY MUST BE PROTECTED AGAINST EROSION AND SEDIMENT TRANSPORT AT ALL TIMES.
6. THE STORAGE OF ALL CONSTRUCTION MATERIALS AND EQUIPMENT MUST BE PROTECTED AGAINST ANY POTENTIAL RELEASE OF POLLUTANTS INTO THE ENVIRONMENT.

GENERAL FIRE NOTES:

1. BUILDINGS UNDERGOING CONSTRUCTION, ALTERATION, OR DEMOLITION SHALL BE IN ACCORDANCE WITH 2021 INTERNATIONAL BUILDING CODE AND ALL GOVERNING CODES.
2. ADDRESS SHALL BE PROVIDED FOR ALL PROPOSED AND EXISTING BUILDINGS IN A POSITION AS TO BE PLAINLY VISIBLE AND LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY.(2021 INTERNATIONAL BUILDING CODE 501.2)
3. DECORATIVE MATERIALS SHALL BE MAINTAINED IN A FLAME-RETARDANT CONDITION.(2021 INTERNATIONAL BUILDING CODE 806.1)
4. PORTABLE FIRE EXTINGUISHERS: AT LEAST ONE FIRE EXTINGUISHER WITH A MINIMUM RATING OF 2-A-10B:C SHALL BE PROVIDED WITHIN 75 FEET MAXIMUM TRAVEL DISTANCE FOR EACH 6,000 SQUARE FEET OR PORTION THEREOF ON EACH FLOOR.(2021 INTERNATIONAL BUILDING CODE 906.1.1 AND SECTION 906.3.1)

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36" SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

GENERAL NOTES 4

LANDLORD SIGNATURE

ABBREVIATION	DEFINITION
AB	ANCHOR BOLT
ABV	ABOVE
ACCA	ANTENNA CABLE COVER ASSEMBLY
ADD'L	ADDITIONAL
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ALUM	ALUMINUM
ALT	ALTERNATE
ANT	ANTENNA
APPRX	APPROXIMATE(LY)
ARCH	ARCHITECT(URAL)
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BN	BOUNDARY NAILING
BTCW	BARE TINNED COPPER WIRE
BOF	BOTTOM OF FOOTING
B/U	BACK-UP CABINET
CAB	CABINET
CANT	CANTILEVER(ED)
CIP	CAST IN PLACE
CLG	CEILING
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION(OR)
CONST	CONSTRUCTION
CONT	CONTINUOUS
d	PENNY (NAILS)
DBL	DOUBLE
DEPT	DEPARTMENT
DF	DOUGLAS FIR
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DWG	DRAWING(S)
DWL	DOWEL(S)
EA	EACH
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMT	ELECTRICAL METALLIC TUBING
EN	EDGE NAIL
ENG	ENGINEER
EQ	EQUAL
EXP	EXPANSION
EXST (E)	EXISTING
EXT	EXTERIOR
FAB	FABRICATION(OR)
FF	FINISH FLOOR
FG	FINISH GRADE
FIN	FINISH(ED)
FLR	FLOOR
FDN	FOUNDATION
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FOW	FACE OF WALL
FS	FINISH SURFACE
FT (')	FOOT (FEET)
FTG	FOOTING
G	GROWTH (CABINET)
GA	GAUGE
GI	GALVANIZE(D)
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GLB (GLU-LAM)	GLUE LAMINATED BEAM
GPS	GLOBAL POSITIONING SYSTEM
GRND	GROUND
HDR	HEADER
HGR	HANGER
HT	HEIGHT
ICGB	ISOLATED COPPER GROUND BUS
IN (")	INCH(ES)
INT	INTERIOR
LB (#)	POUND(S)
LB	LAG BOLTS
LF	LINEAR FEET (FOOT)
L	LONGI(TUDINAL)
MAS	MASONRY
MAX	MAXIMUM
MB	MACHINE BOLT
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
(N)	NEW
NO (#)	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OPNG	OPENING
P/C	PRECAST CONCRETE
PCS	PERSONAL COMMUNICATION SERVICES
PLY	PLYWOOD
PPC	POWER PROTECTION CABINET
PRC	PRIMARY RADIO CABINET
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PWR	POWER (CABINET)
QTY	QUANTITY
RAD (R)	RADIUS
REF	REFERENCE
REINF	REINFORCEMENT(ING)
REQ'D	REQUIRED
RGS	RIGID GALVANIZED STEEL
RRU	RADIO REMOTE UNIT
SCH	SCHEDULE
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION(S)
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STRUC	STRUCTURAL
TEMP	TEMPORARY
THK	THICK(NESS)
TMA	TOWER MOUNTED AMPLIFIER
TN	TOE NAIL
TOA	TOP OF ANTENNA
TOC	TOP OF CURB
TOF	TOP OF FOUNDATION
TOP	TOP OF PLATE (PARAPET)
TOS	TOP OF STEEL
TOW	TOP OF WALL
TYP	TYPICAL
UG	UNDER GROUND
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
VIF	VERIFY IN FIELD
W	WIDE (WIDTH)
W/	WITH
WD	WOOD
WP	WEATHERPROOF
WT	WEIGHT
℄	CENTERLINE
ℙ	PLATE

ABBREVIATIONS 1

NEW ANTENNA
EXISTING ANTENNA
GROUND ROD
GROUND BUS BAR
MECHANICAL GRND. CONN.
CADWELD
GROUND ACCESS WELL
ELECTRIC BOX
TELEPHONE BOX
LIGHT POLE
FND. MONUMENT
SPOT ELEVATION
SET POINT
REVISION

CENTERLINE
PROPERTY/LEASE LINE
MATCH LINE
WORK POINT
G — GROUND CONDUCTOR
T — TELEPHONE CONDUIT
E — ELECTRICAL CONDUIT (POWER)

GRID REFERENCE
DETAIL REFERENCE
ELEVATION REFERENCE
SECTION REFERENCE
GROUT OR PLASTER
(E) BRICK
(E) MASONRY
CONCRETE
EARTH
GRAVEL
PLYWOOD
SAND
WOOD CONT.
WOOD BLOCKING
STEEL
T/E — OVERHEAD SERVICE CONDUCTORS
A — COAXIAL CABLE
F — FIBER
P/F — POWER AND FIBER
X — CHAIN LINK FENCING
WOOD FENCE
OHP — OHP — OVERHEAD POWER LINE
UGP — BURIED POWER LINE
OHT — OVERHEAD TELEPHONE LINE
UG/T — BURIED TELEPHONE LINE
W — W — BURIED WATER LINE
SS — BURIED SANITARY SEWER
SD — BURIED STORM DRAIN

LEGEND 3

NOT USED 2

PLANS PREPARED FOR:

T-Mobile

19807 NORTH CREEK PKWY N
BOTHELL, WA 98011

PLANS PREPARED BY:

Technology Associates

SEATTLE MARKET OFFICE
1455 NW LEARY WAY, STE. 400
SEATTLE, WA 98107

JURISDICTION APPROVAL SEAL:

ENGINEERING SEAL:

PETER C. LUNDQUIST — STATE OF WASHINGTON — 41393 — CIVIL — PROFESSIONAL ENGINEER
08.13.2025

DRAWING NOTICE:

REVISIONS:

DESCRIPTION	DATE	BY	REV
ISSUED FOR 90% CD	07/30/2025	MGM	A
ISSUED FOR 100%CD	08/13/2025	MGM	0

SITE NAME:
WEST BAKERVIEW - SCHLOSSER - SNOPUD

SITE NUMBER:
SE01458B

SITE ADDRESS:
4822 103RD PL SW
MUKILTEO, WA 98275

SHEET DESCRIPTION:
NOTES & LEGEND

SHEET NUMBER:
T-2

LEGAL DESCRIPTION

NO TITLE RESEARCH PROVIDED AT THIS TIME

EASEMENTS

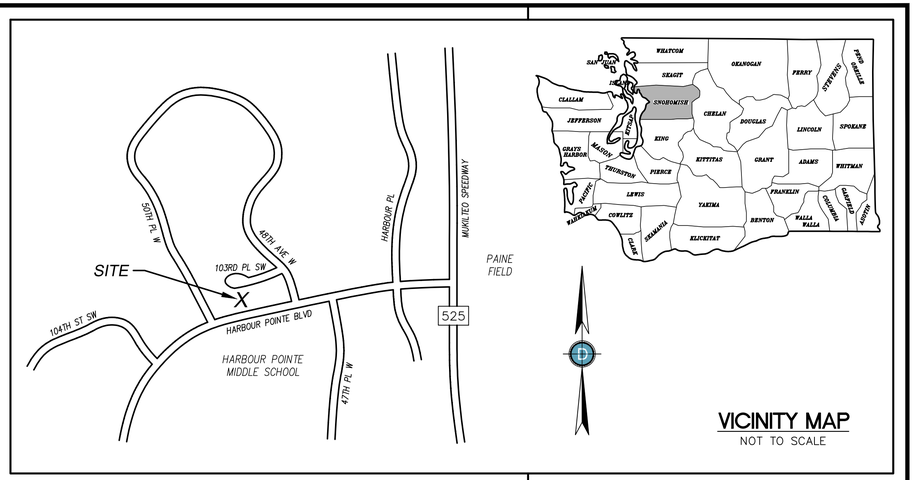
△# CORRESPONDS WITH ITEM NUMBER IN TITLE REPORT

THE FOLLOWING EASEMENTS FROM THE REFERENCED TITLE REPORT MAY CONTAIN SUFFICIENT INFORMATION TO BE DEPICTED ON THE PLAN. OTHER EASEMENTS OR ENCUMBRANCES, IF ANY, MAY AFFECT THE PROPERTY, BUT LACK SUFFICIENT INFORMATION TO BE SHOWN.

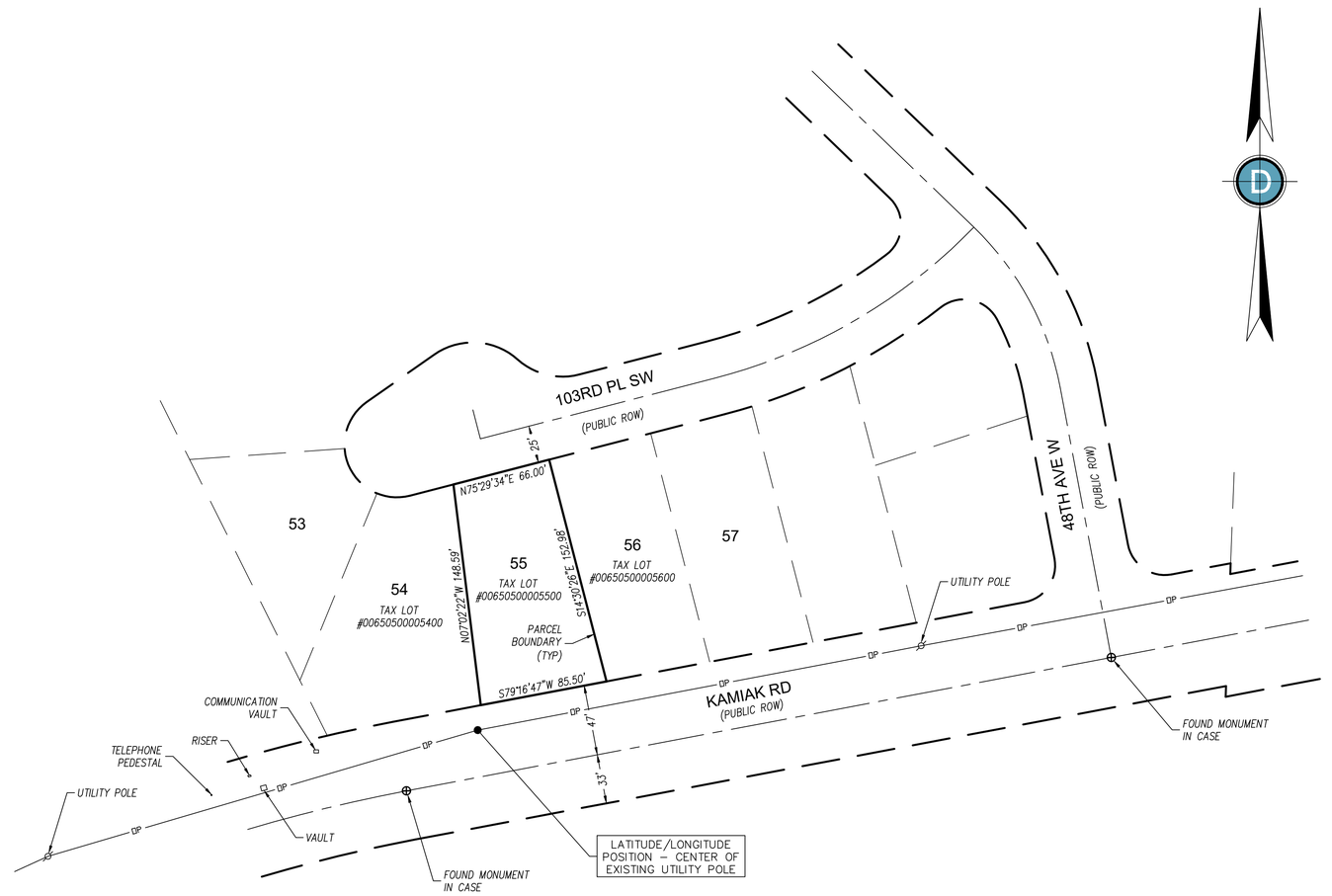
△# NO TITLE RESEARCH PROVIDED AT THIS TIME

NOTES

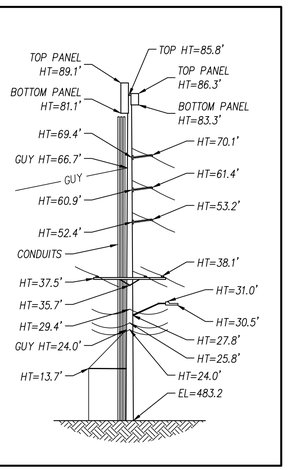
1. NO TITLE RESEARCH PROVIDED AT THIS TIME. CALCULATED BOUNDARY MAY CHANGE UPON RECEIPT OF TITLE.
2. FIELD WORK CONDUCTED IN OCTOBER 2024.
3. BASIS OF BEARING: WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE (NAD83/91).
4. UNDERGROUND UTILITIES SHOWN HEREON, IF ANY, WERE DELINEATED FROM SURFACE EVIDENCE AND/OR UTILITY COMPANY RECORDS. CRITICAL LOCATIONS SHOULD BE VERIFIED PRIOR TO DESIGN AND CONSTRUCTION.
5. FEMA DESIGNATION: ZONE X (AREA OF MINIMAL FLOOD HAZARD), FIRM MAP NO. 53061C1020F, EFFECTIVE DATE JUNE 19, 2020.



VICINITY MAP
NOT TO SCALE



SITE LOCATION
SCALE 1"=50'



UTILITY POLE DETAIL
NOT TO SCALE

LEGEND

———	SUBJECT BOUNDARY LINE
—— – —— – ——	RIGHT-OF-WAY CENTERLINE
— — — — —	RIGHT-OF-WAY LINE
—— ——— ——— ——	ADJACENT BOUNDARY LINE
—— · —— · ——	SECTIONAL BREAKDOWN LINE
——— – – ———	EASEMENT LINE
(M)	MEASURED
(R)	REFERENCE

SITE INFORMATION

TAX LOT NUMBER	00650500005500
SITE ADDRESS	4822 103RD PL SW MUKILTEO, WA 98275
SITE CONTACT	JILL SCHLOSSER
PHONE NUMBER	425-232-7310
ZONING	RD 7.2 (SINGLE FAMILY RESIDENTIAL) (CITY OF MUKILTEO)
TOTAL LOT AREA	11,387± SF (0.26± AC)

LATITUDE/LONGITUDE POSITION

COORDINATE DATA AT CENTER OF EXISTING UTILITY POLE:
NAD 83/91

LAT - 47°54'16.20" N
LONG - 122°17'58.69" W

NAVD 88
ELEV= 483.2 FEET

LAT - 47.904500° N
LONG - 122.299636° W

NAVD 88

BENCHMARK IS BASED ON WSRN PUGET SOUND REFERENCE NETWORK

ELEVATION DERIVED USING GPS. ACCURACY MEETS OR EXCEEDS 1A STANDARDS AS DEFINED ON THE FAA ASAC INFORMATION SHEET 91-003

SURVEY REFERENCE

PLAT OF KAMIAK NO. 1, RECORDED SEPTEMBER 9, 1976, VOLUME 36 OF PLATS, PAGES 37 & 38, FILE NO. 7609090097, RECORDS OF SNOHOMISH COUNTY, WASHINGTON.

BOUNDARY DISCLAIMER

THIS PLAN DOES NOT REPRESENT A BOUNDARY SURVEY. SUBJECT AND ADJACENT PROPERTY LINES ARE DEPICTED USING FIELD-FOUND EVIDENCE AND RECORD INFORMATION.

CAUTION!

UNDERGROUND UTILITIES EXIST IN THE AREA AND UTILITY INFORMATION SHOWN MAY BE INCOMPLETE. STATE LAW REQUIRES THAT CONTRACTOR CONTACT THE ONE-CALL UTILITY LOCATE SERVICE AT LEAST 48 HOURS BEFORE STARTING ANY CONSTRUCTION.

811 Know what's below. Call before you dig.

T-Mobile

Technology Associates

DUNCANSON
Company, Inc.
145 SW 155th Street, Suite 102
Seattle, Washington 98166
Phone 206.244.4141
Fax 206.244.4455

SITE
SE01458B
WEST BAKERVIEW SNOPUD
4822 103RD PL SW
MUKILTEO, WA 98275
SNOHOMISH COUNTY

FIELD CREW:	CR
FIELD BOOK:	642/26
DRAWN BY:	DAS
JOB #:	01808.1940
DATE:	10/16/2024

REVISIONS

DATE	DESCRIPTION	BY
-	-	-

KEVIN J WAKAKI
STATE OF WASHINGTON
41038
REGISTERED
PROFESSIONAL LAND SURVEYOR
10/17/24

SHEET TITLE
EXISTING SITE SURVEY
SEC 21, TWP 28 N, RNG 4 E, WM

SHEET NUMBER
SV1

LEGEND

- SUBJECT BOUNDARY LINE
- RIGHT–OF–WAY CENTERLINE
- RIGHT–OF–WAY LINE
- ADJACENT BOUNDARY LINE
- SECTIONAL BREAKDOWN LINE
- EASEMENT LINE
- DP — OVERHEAD POWER LINE
- UP — BURIED POWER LINE
- UT — BURIED TELEPHONE LINE
- DITCH LINE/FLOW LINE
- ROCK RETAINING WALL
- VEGETATION LINE
- WOOD FENCE

- UTILITY POLE
- GUY ANCHOR
- COMM. VAULT
- TEL. PEDESTAL
- GATE VALVE
- BOLLARD
- 234.21 SPOT ELEVATION

NOTE:
1. ALL ELEVATIONS SHOWN ARE ABOVE MEAN SEA LEVEL (AMSL) AND ARE REFERENCED TO THE NAVD88 DATUM.
2. ALL TOWER, TREE AND APPURTENANCE HEIGHTS ARE ABOVE GROUND LEVEL (AGL) AND ARE ACCURATE TO ± 0.5 FEET OR ± 1% OF TOTAL HEIGHT, WHICHEVER IS GREATER.

TREE LEGEND

DECIDUOUS TREE — JMP=JAPANESE MAPLE, DS=DECIDUOUS

AL12 ← TRUNK DIAMETER (IN)
TYPE

EVERGREEN TREE — CE=CEDAR, DF=DOUGLAS FIR

DF18
195.2 ← HEIGHT AGL IF MEASURED

ST=STUMP

NOTE:
TREE DRIP LINES ARE NOT TO SCALE. TREE SYMBOLS REFERENCE TRUNK LOCATION ONLY. TRUNK DIAMETERS WERE APPROXIMATED AT 3.5' TO 4' ABOVE GROUND LEVEL. TREES SHOWN ARE FOR REFERENCE ONLY AND OTHER TREES AND VEGETATION MAY EXIST.

LATITUDE/LONGITUDE POSITION

COORDINATE DATA AT CENTER OF EXISTING UTILITY POLE:
NAD 83/91

LAT – 47°54'16.20" N
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NAVD 88
ELEV= 483.2 FEET

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811 Know what's below. Call before you dig.

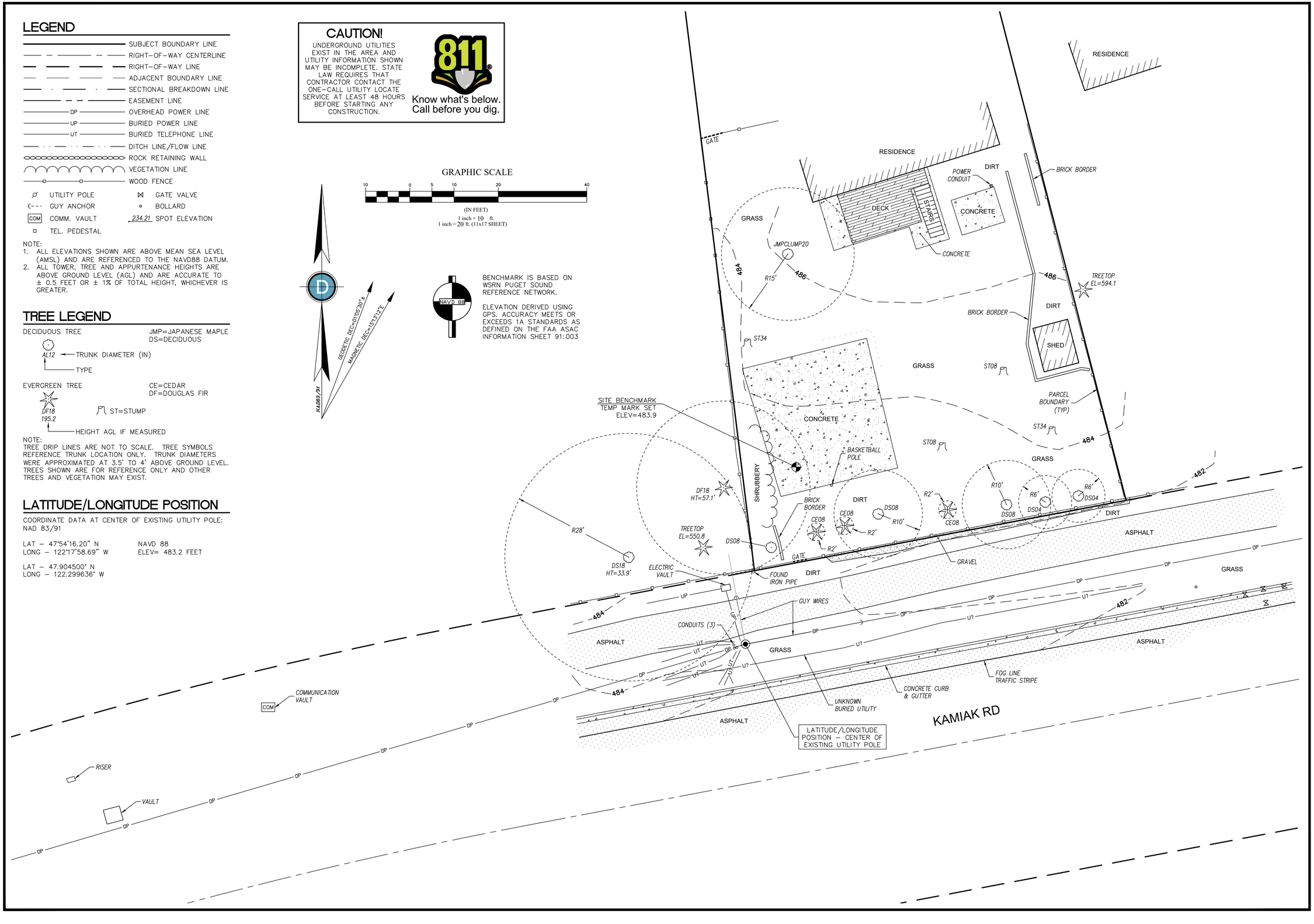
GRAPHIC SCALE
10 0 5 10 20 40
(IN FEET)
1 inch = 10 ft.
1 inch = 20 ft. (11x17 SHEET)

GEODETIC DEC=01°05'35"E
MAGNETIC DEC=15°11'12"E
NAD83/91

NAVD 88

BENCHMARK IS BASED ON WSRN PUGET SOUND REFERENCE NETWORK.

ELEVATION DERIVED USING GPS. ACCURACY MEETS OR EXCEEDS 1A STANDARDS AS DEFINED ON THE FAA ASAC INFORMATION SHEET 91-003



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FIELD CREW:	CR
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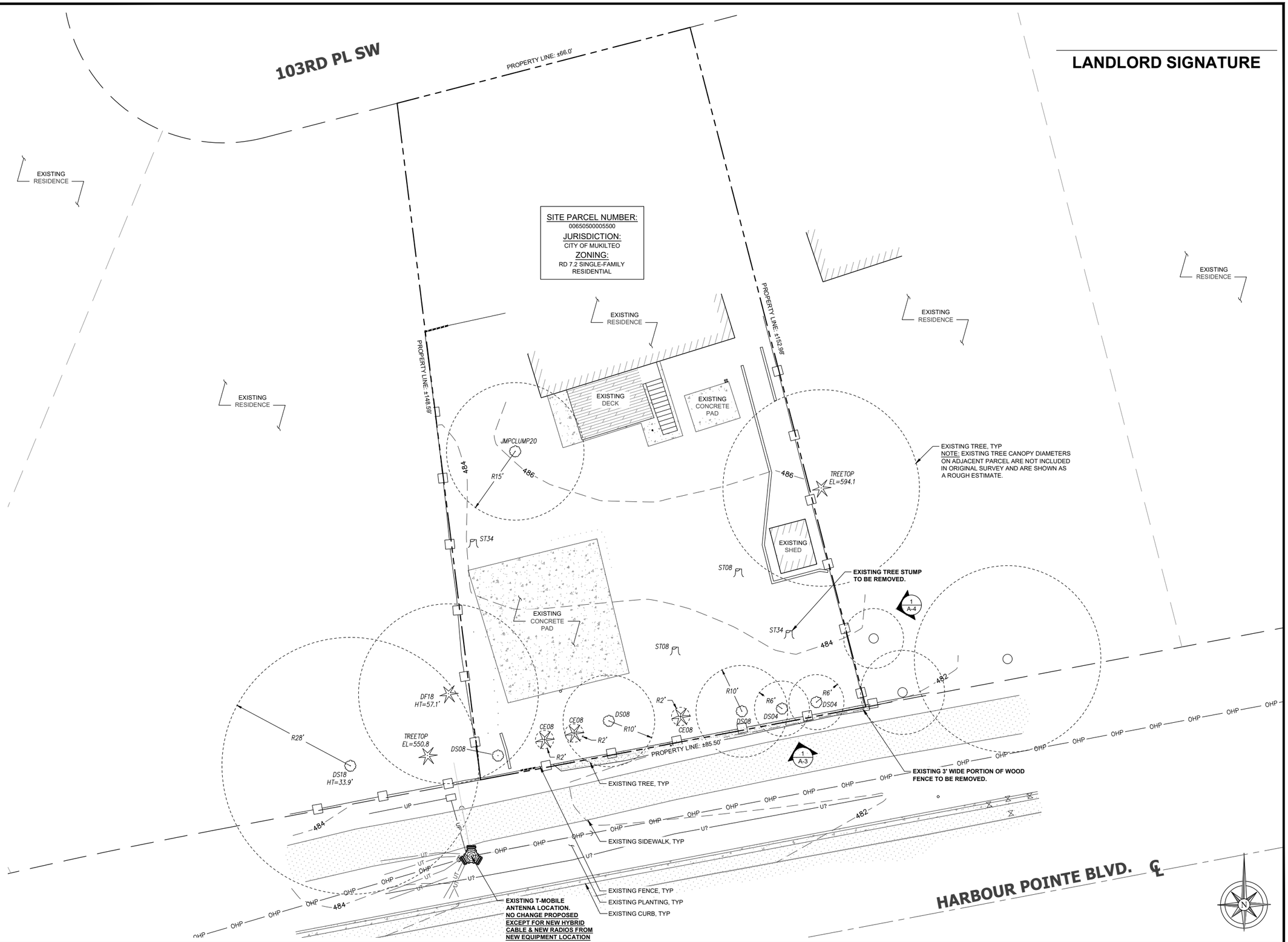
REVISIONS

DATE	DESCRIPTION	BY
–	–	–

KEVIN J WAKKILA
STATE OF WASHINGTON
41038
REGISTERED PROFESSIONAL LAND SURVEYOR
10/17/24

SHEET TITLE
EXISTING SITE SURVEY
SEC 21, TWP 28 N, RNG 4 E, WM

SHEET NUMBER
SV2



LANDLORD SIGNATURE

EXISTING SITE PLAN

10' 0' 5' 10'

SCALE: 1" = 10'-0" (24x36)
(OR) 1/2" = 10'-0" (11x17)

1

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

PLANS PREPARED FOR:

T-Mobile

19807 NORTH CREEK PKWY N
BOTHELL, WA 98011

PLANS PREPARED BY:

Technology Associates

SEATTLE MARKET OFFICE
1455 NW LEARY WAY, STE. 400
SEATTLE, WA 98107

JURISDICTION APPROVAL SEAL:

ENGINEERING SEAL:

PETER C. LUNDQUIST
STATE OF WASHINGTON
41393
CIVIL
PROFESSIONAL ENGINEER
08.13.2025

DRAWING NOTICE:

REVISIONS:

DESCRIPTION	DATE	BY	REV
ISSUED FOR 90% CD	07/30/2025	MGM	A
ISSUED FOR 100%CD	08/13/2025	MGM	0

SITE NAME:

WEST BAKERVIEW - SCHLOSSER - SNOPUD

SITE NUMBER:

SE01458B

SITE ADDRESS:

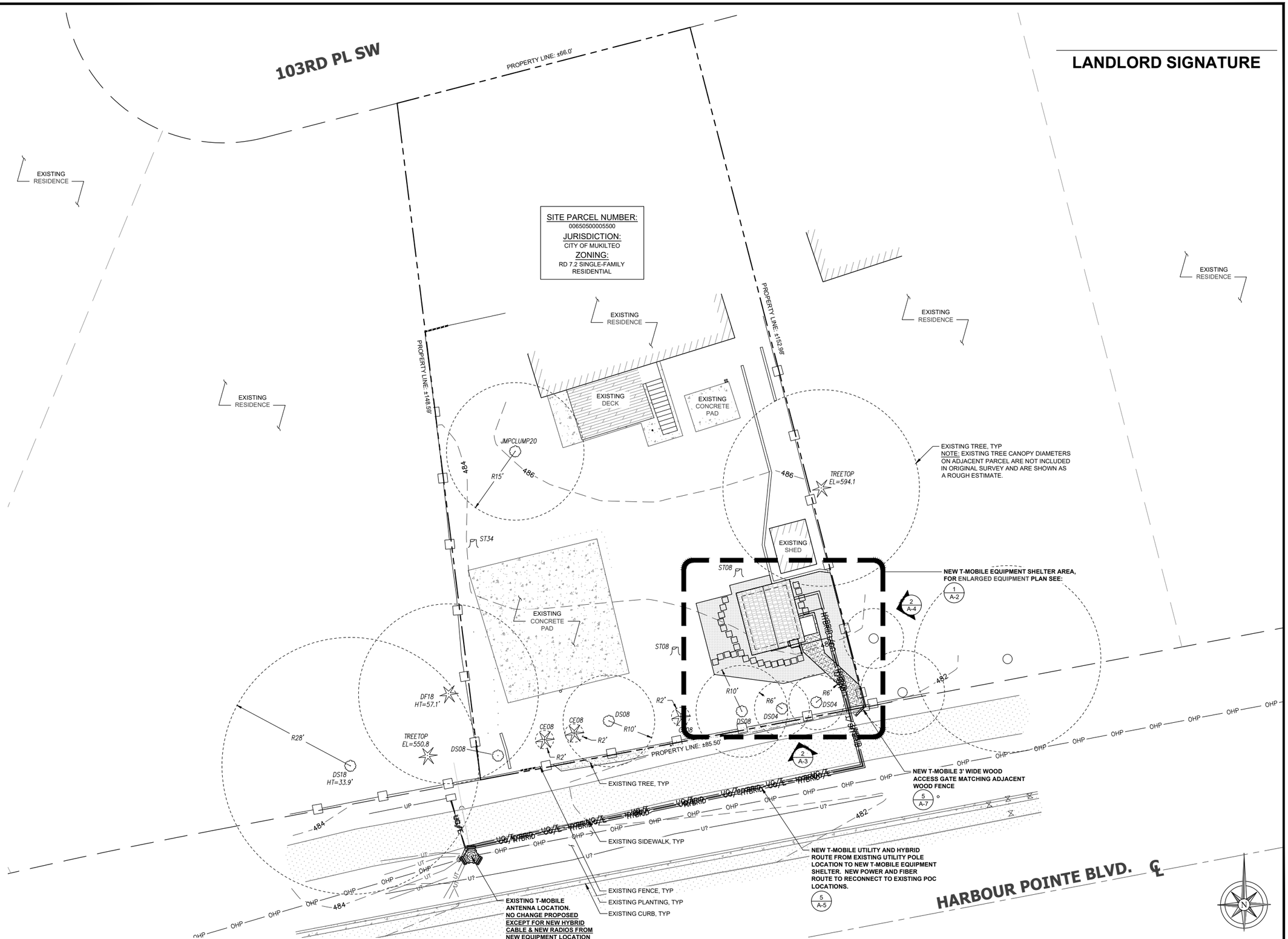
4822 103RD PL SW
MUKILTEO, WA 98275

SHEET DESCRIPTION:

EXISTING SITE PLAN

SHEET NUMBER:

A-1



LANDLORD SIGNATURE

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

FINAL SITE PLAN

10' 0' 5' 10'

SCALE: 1" = 10'-0" (24x36)
(OR) 1/2" = 10'-0" (11x17)

1

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T-Mobile

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BOTHELL, WA 98011

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SITE ADDRESS:

4822 103RD PL SW
MUKILTEO, WA 98275

SHEET DESCRIPTION:

FINAL SITE PLAN

SHEET NUMBER:

A-1.1

LANDLORD SIGNATURE

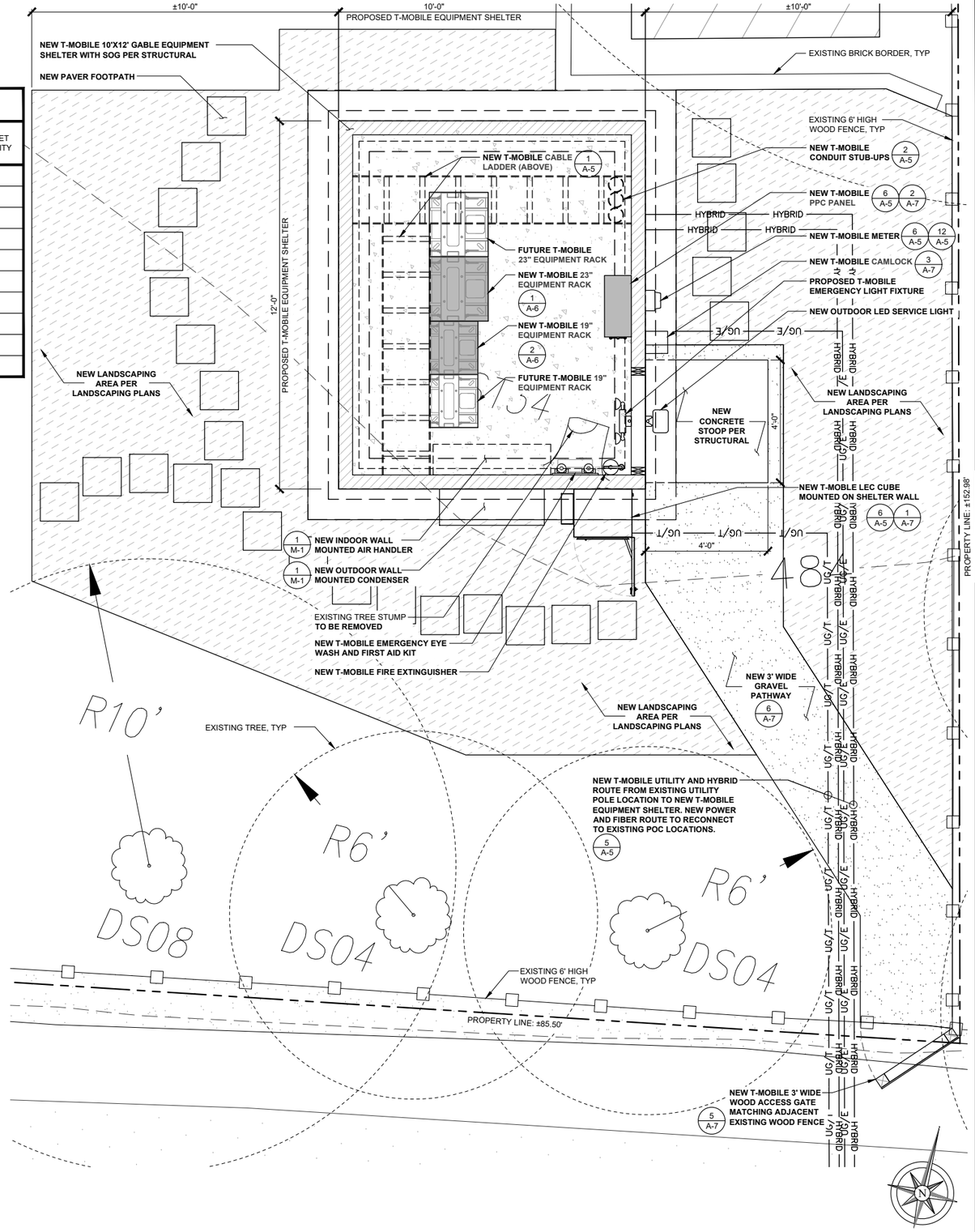
GROUND: FINAL EQUIPMENT INVENTORY

SCOPE OF WORK	QUANTITY	TECHNOLOGY	MANUFACTURER	EQUIPMENT MODEL	DIMENSIONS (LxWxD)	WEIGHT (LBS)	CABINET TYPE (LOCATION OF EQUIPMENT)	CABINET QUANTITY
ADD NEW	(1)	CAMLOCK	PANTROL	PANLOC LITE	10.5" x 9.0" x 9.25"	-	ON WALL	-
ADD NEW	(1)	PPC/DISCONNECT	RAYCAP	RTMAC-2465-P-240-MTS	39"X22.855"X12.593"	80	ON WALL	-
ADD NEW	(1)	ROUTER	NOKIA	CSR IXR-e V2	1.75" x 17.25" x 10.0"	8.5	19" RACK	1
ADD NEW	(1)	RACK	DELTA	TITAN RACK 19"	21.88"x84"x23"	147	ON SLAB	-
ADD NEW	(1)	RACK	DELTA	ESAA600AHCU03	24.7"x84"x22.6"	250	ON SLAB	-
ADD NEW	(16)	BATTERIES	POWERSAFE	SBS 190F	22.1" x 4.9" x 12.4"	132.3	23" RACK	1
ADD NEW	(2)	BASEBAND	NOKIA	ASIM	1.89" x 8.62" x 14.84"	6.39	19" RACK	1
ADD NEW	(3)	BASEBAND	NOKIA	ABIP	0.98" x 8.62" x 14.33"	4.41	19" RACK	1
ADD NEW	(1)	BASEBAND	NOKIA	AMID	5.08" x 17.60" x 15.75"	11.68	19" RACK	1
ADD NEW	(1)	VOLTAGE BOOSTER	RAYCAP	POWERPLUS 103-1-1U	17.6" x 13.5" x 1.7"	2.1	19" RACK	1

BATTERY NOTES:

MAXIMUM OF (4) STRINGS OF (4) (16 BATTERIES TOTAL) OF VALVE REGULATED LEAD ACID BATTERIES (VRLA) MODEL POWERSAFE SBS 190F WITH IMMOBILIZED ELECTROLYTE TECHNOLOGY. TOTAL CAPACITY 36.48 KWH. COMPLIANCE WITH 2021 INTERNATIONAL FIRE CODE SECTION 1207.1.1 ENERGY STORAGE THRESHOLD QUANTITIES IS NOT REQUIRED.

NOTE:
1. NEW GABLE ROOF T-MOBILE EQUIPMENT SHELTER TO MATCH BUILDING IN FRONT AND SIMILAR ROOFING. SEE EQUIPMENT SHELTER ELEVATIONS FOR MORE INFORMATION.



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EQUIPMENT PLAN (FINAL)

0 6" 1' 2' | SCALE: 1/2" = 1'-0" (24x36) (OR) 1/4" = 1'-0" (11x17) | 1

PLANS PREPARED FOR:

T-Mobile

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BOTHELL, WA 98011

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JURISDICTION APPROVAL SEAL:

ENGINEERING SEAL:

PETER C. LUNDQUIST — STATE OF WASHINGTON — 41393 — CIVIL — PROFESSIONAL ENGINEER

08.13.2025

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ISSUED FOR 90% CD	07/30/2025	MGM	A
ISSUED FOR 100%CD	08/13/2025	MGM	0

SITE NAME:

WEST BAKERVIEW - SCHLOSSER - SNOPUD

SITE NUMBER:

SE01458B

SITE ADDRESS:

4822 103RD PL SW
MUKILTEO, WA 98275

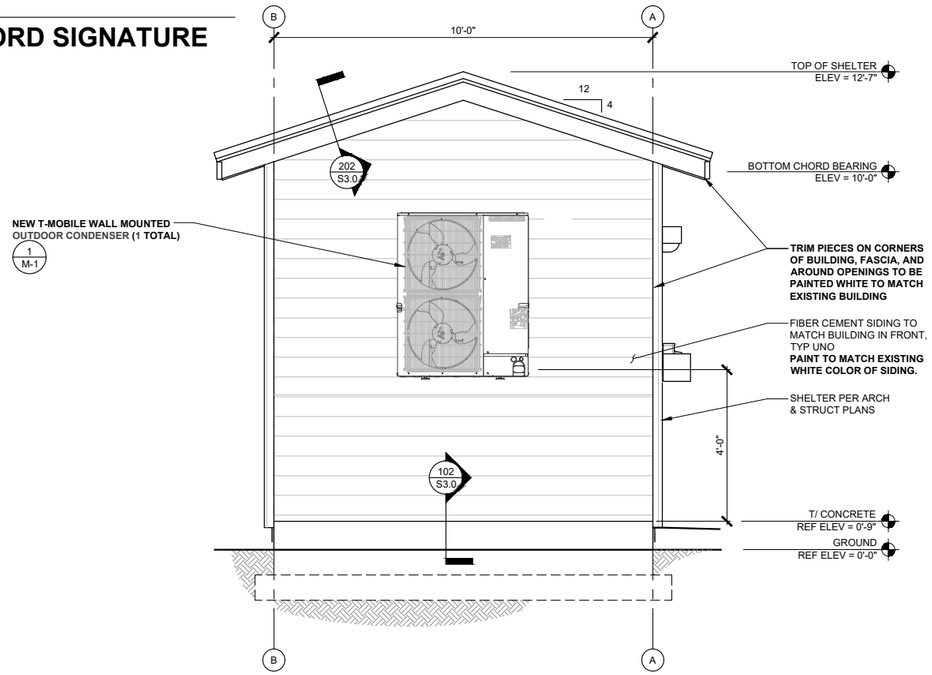
SHEET DESCRIPTION:

EQUIPMENT PLAN

SHEET NUMBER:

A-2

LANDLORD SIGNATURE



NOTE:
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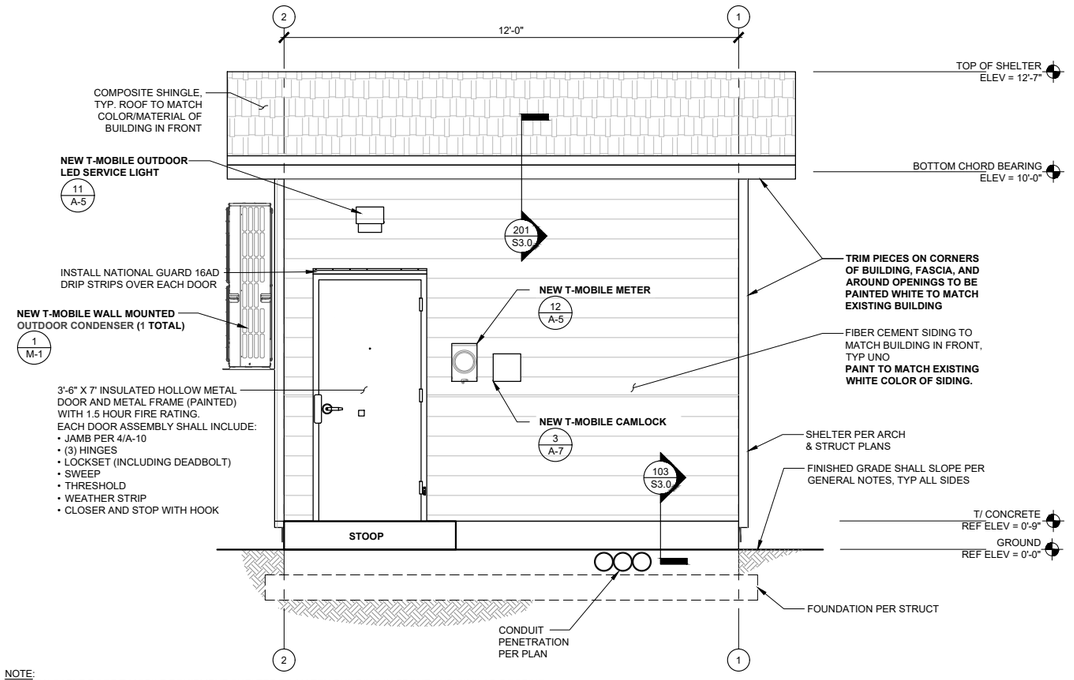
SHELTER SOUTH ELEVATION

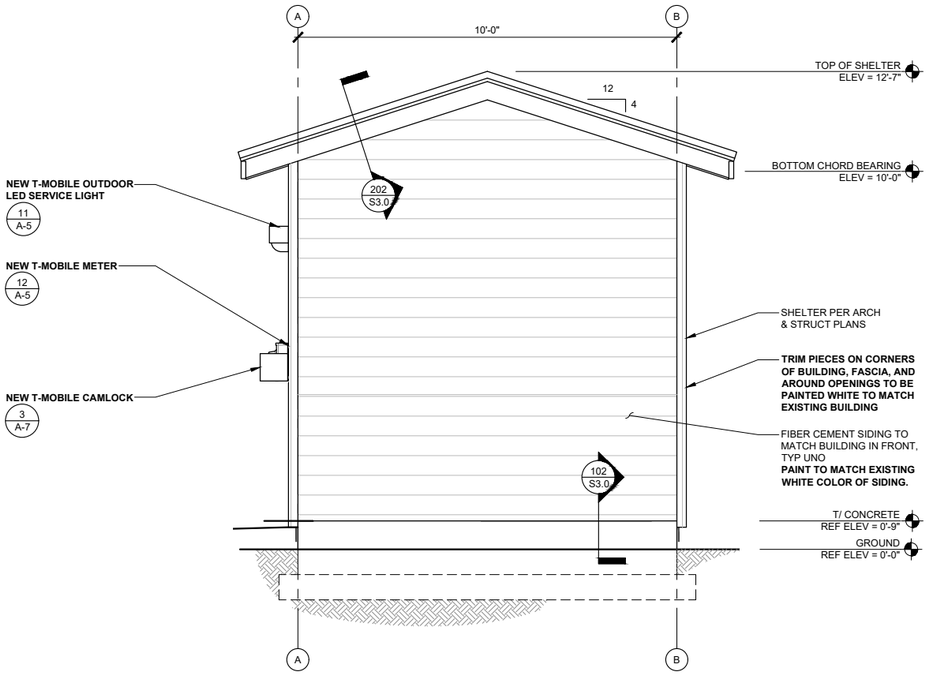
SCALE N.T.S. 3



NOTE:
1. NEW GABLE ROOF T-MOBILE EQUIPMENT SHELTER TO MATCH BUILDING IN FRONT AND SIMILAR ROOFING.

SHELTER EAST ELEVATION

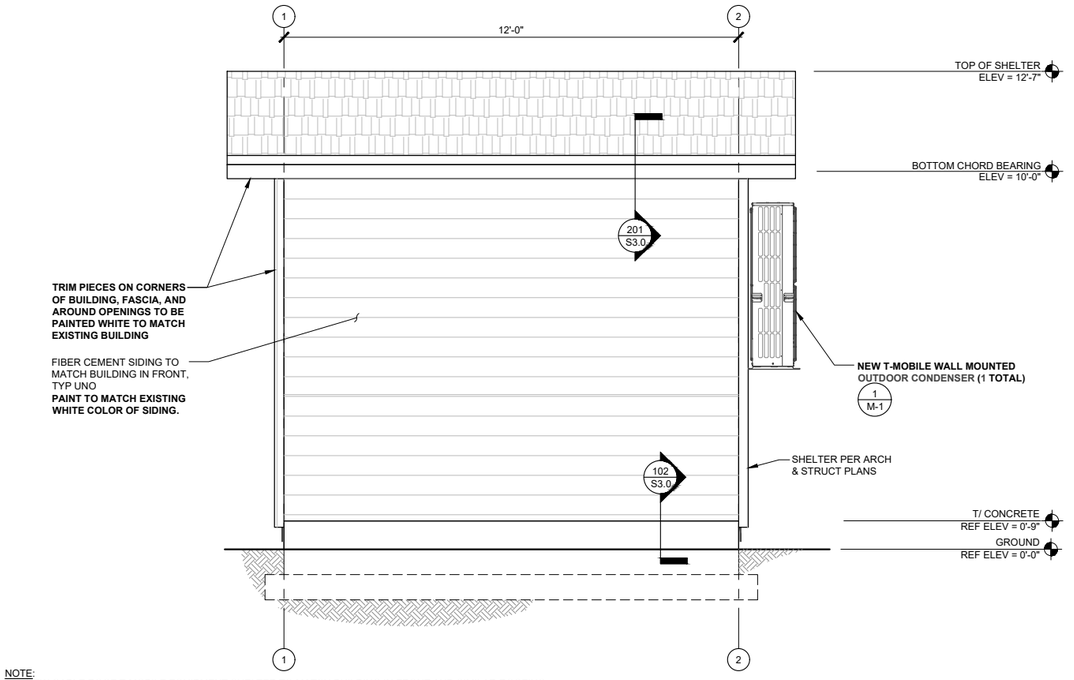
0 6" 1' 2' SCALE: 1/2" = 1'-0" (24x36) (OR) 1/4" = 1'-0" (11x17) 1



NOTE:
1. NEW GABLE ROOF T-MOBILE EQUIPMENT SHELTER TO MATCH BUILDING IN FRONT AND SIMILAR ROOFING.

SHELTER NORTH ELEVATION

SCALE N.T.S. 4



NOTE:
1. NEW GABLE ROOF T-MOBILE EQUIPMENT SHELTER TO MATCH BUILDING IN FRONT AND SIMILAR ROOFING.

SHELTER WEST ELEVATION

0 6" 1' 2' SCALE: 1/2" = 1'-0" (24x36) (OR) 1/4" = 1'-0" (11x17) 2

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PLANS PREPARED FOR:

T-Mobile

19807 NORTH CREEK PKWY N
BOTHELL, WA 98011

PLANS PREPARED BY:

Technology Associates

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SEATTLE, WA 98107

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PETER C. LUNDQUIST
STATE OF WASHINGTON
41393
CIVIL
PROFESSIONAL ENGINEER
08.13.2025

DRAWING NOTICE:

REVISIONS:

DESCRIPTION	DATE	BY	REV
ISSUED FOR 90% CD	07/30/2025	MGM	A
ISSUED FOR 100%CD	08/13/2025	MGM	0

SITE NAME:

WEST BAKERVIEW - SCHLOSSER - SNOPUD

SITE NUMBER:

SE01458B

SITE ADDRESS:

4822 103RD PL SW
MUKILTEO, WA 98275

SHEET DESCRIPTION:

EQUIPMENT SHELTER ELEVATIONS

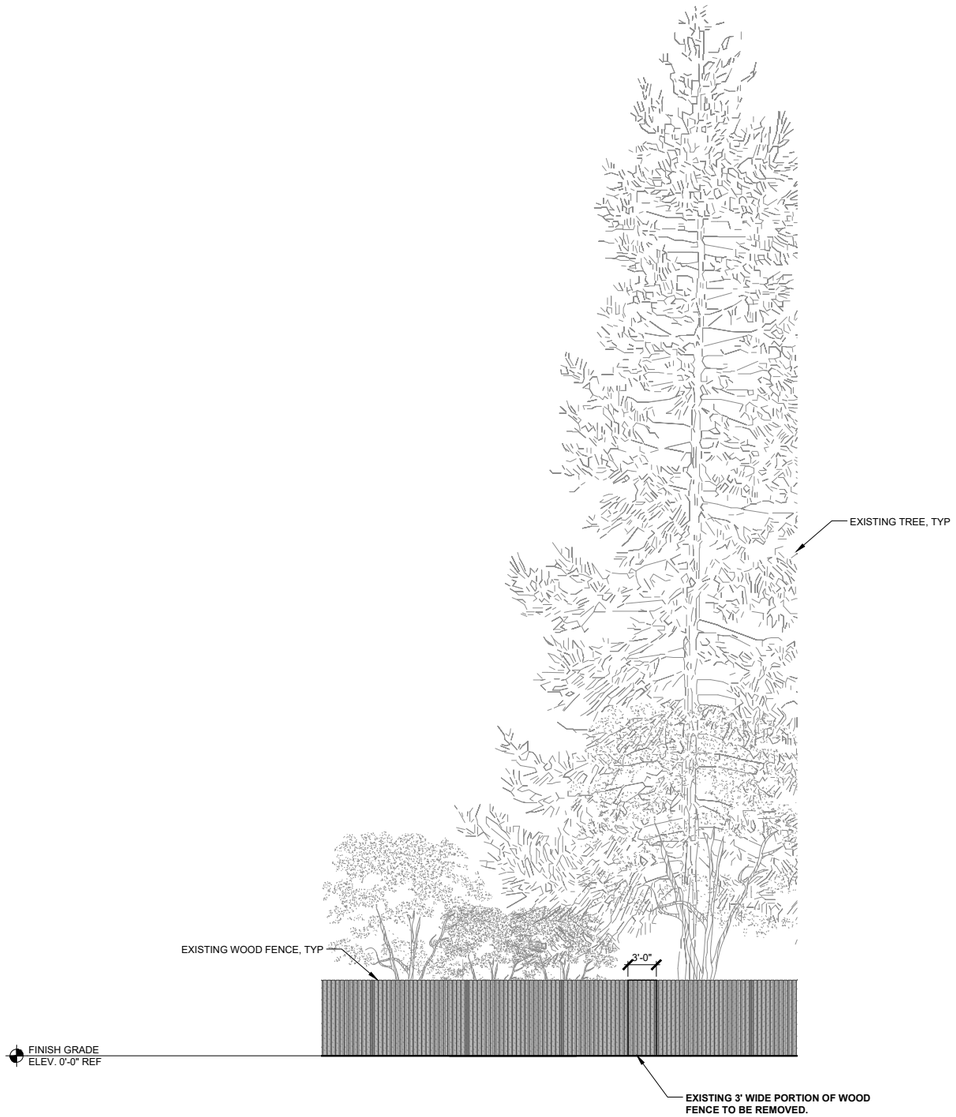
SHEET NUMBER:

A-2.1

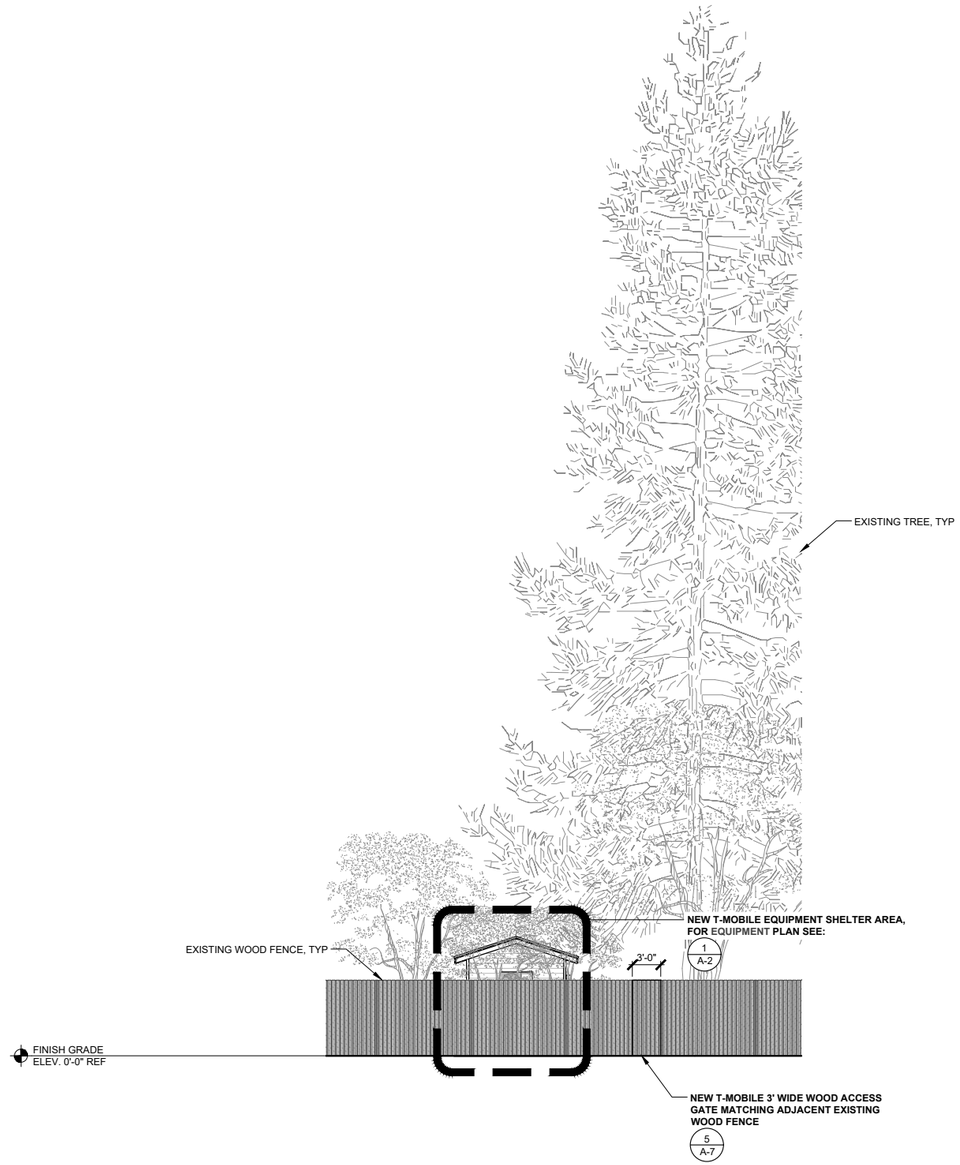
LANDLORD SIGNATURE

DISCLAIMER:

1. NO CHANGES PROPOSED AT EXISTING POLE OTHER THAN CONNECTING NEW CABLING FROM POLE TO NEW GROUND EQUIPMENT LOCATION. ANTENNAS, RADIOS, AND ANCILLARY EQUIPMENT TO REMAIN UNCHANGED.



SOUTH ELEVATION (EXISTING) | 0 2' 4' 8' | SCALE: 1/8" = 1'-0" (24x36) (OR) 1/16" = 1'-0" (11x17) | **1**



SOUTH ELEVATION (FINAL) | 0 2' 4' 8' | SCALE: 1/8" = 1'-0" (24x36) (OR) 1/16" = 1'-0" (11x17) | **2**

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

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SITE NAME:

WEST BAKERVIEW - SCHLOSSER - SNOPUD

SITE NUMBER:

SE01458B

SITE ADDRESS:

4822 103RD PL SW
MUKILTEO, WA 98275

SHEET DESCRIPTION:

ELEVATIONS

SHEET NUMBER:

A-3

LANDLORD SIGNATURE

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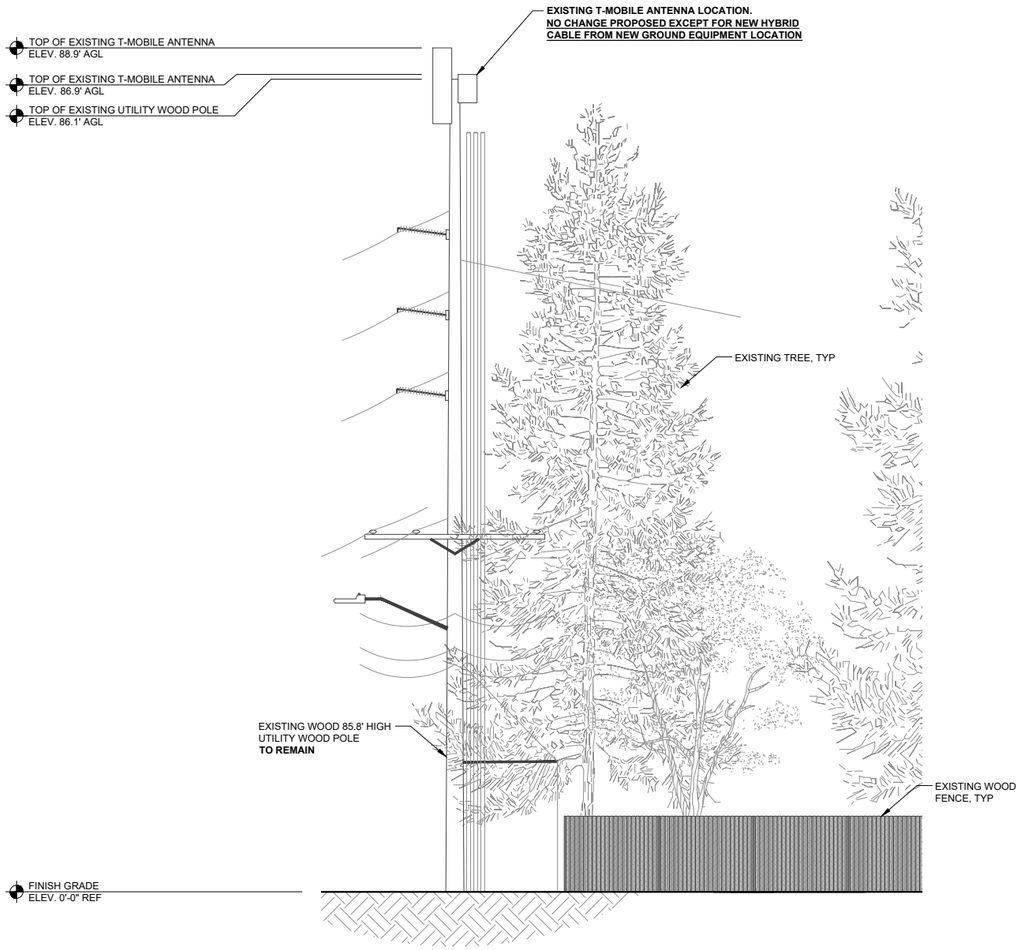
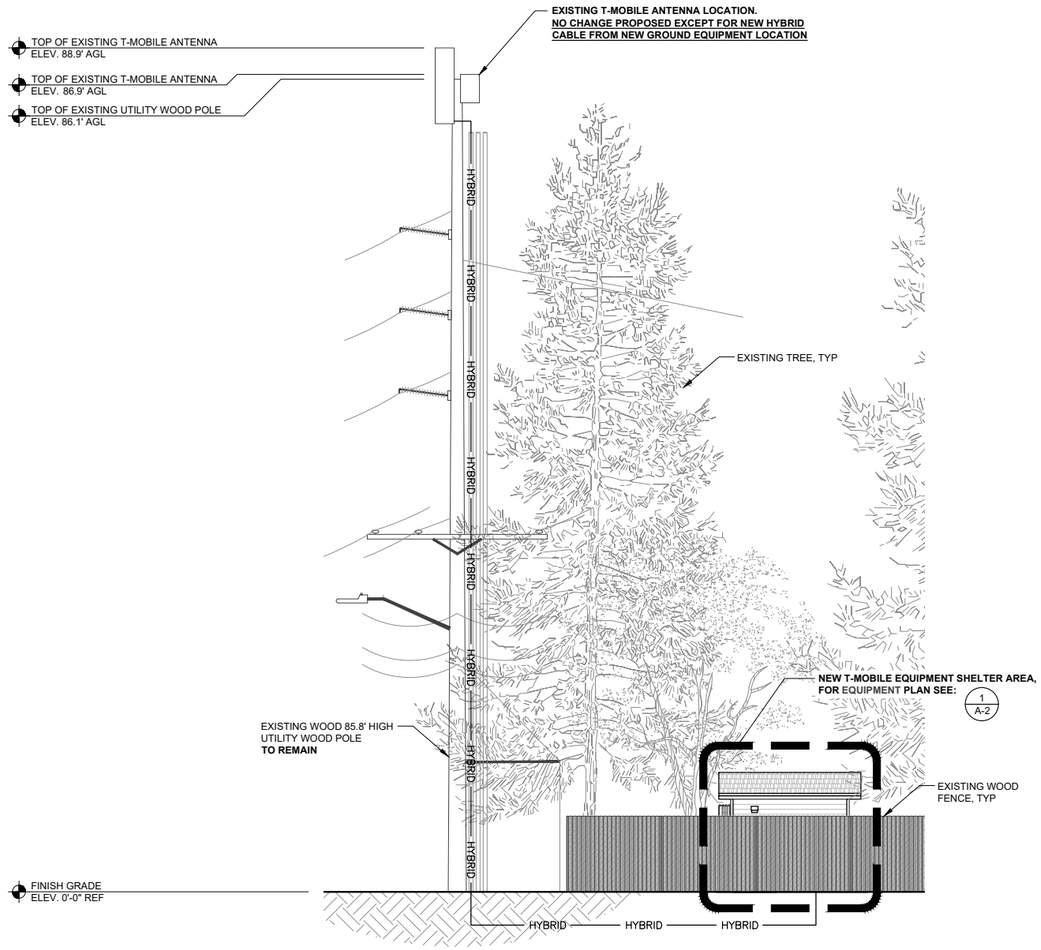


EAST ELEVATION (EXISTING)

0 2' 4' 8'

SCALE: 1/8" = 1'-0" (24x36)
(OR) 1/16" = 1'-0" (11x17)

1



EAST ELEVATION (FINAL)

0 2' 4' 8'

SCALE: 1/8" = 1'-0" (24x36)
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2

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BOTHELL, WA 98011

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WEST BAKERVIEW - SCHLOSSER - SNOPUD

SITE NUMBER:

SE01458B

SITE ADDRESS:

4822 103RD PL SW
MUKILTEO, WA 98275

SHEET DESCRIPTION:

ELEVATIONS

SHEET NUMBER:

A-4

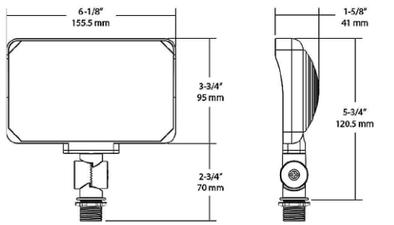
LANDLORD SIGNATURE

NOT USED

SCALE N.T.S. 10

RAB | OUTDOOR SERVICE LIGHT: X34-35L/120

DIMENSIONS:	6-1/8" x 5-3/4" x 1-5/8" (FLOODLIGHT)
DRIVER INFO:	
TYPE:	CONSTANT CURRENT
120V:	0.3A
INPUT WATTS:	34.10W
LED INFO:	
WATTS:	35.00W
COLOR TEMP:	5000K (COOL)
COLOR ACCURACY:	85 CRI
L70 LIFESPAN:	50,000
LUMENS:	3,501
EFFICACY:	102.7 LPW



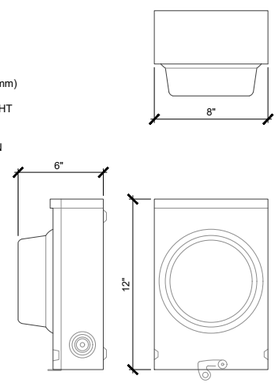
ELEVATIONS

SERVICE LIGHT

SCALE N.T.S. 11

MSFDS - MSF-LLCM-E16S

MANUFACTURE:	MSFDS
MODLE:	MSF-LLCM-E16S
MATERIAL:	ALUMINUM
ENCLOSURE DIMENSIONS, HxWxD:	12" x 8" x 6" (304.8 x 203.2 x 152.4 mm)
METER DIMENSIONS:	6 15/16" DIA. - 5" HEIGHT
GENERATOR INTERFACE:	CAM LOCK/APPLETON
MOUNTING OPTIONS:	WALL, POLE, OR CABINET MOUNT

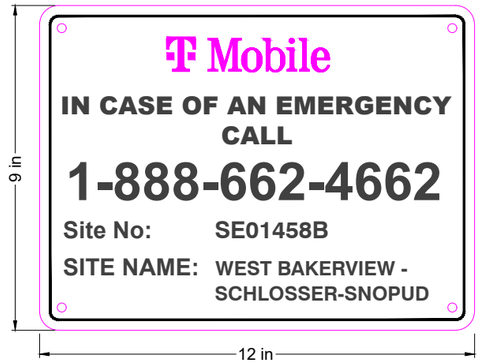


METER SPECIFICATIONS

SCALE N.T.S. 12

SIGNAGE

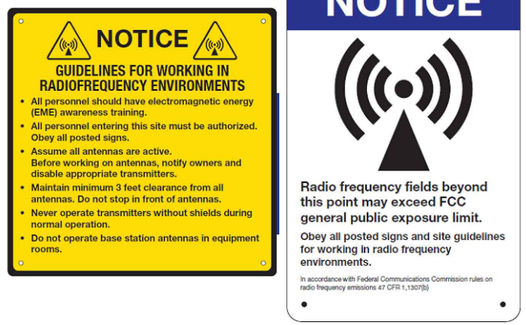
SCALE N.T.S. 7



NOTES:
1. PLACE SIGN ON LOCATION BY COMPLIANCE SPECIFICATIONS (PROVIDED BY T-MOBILE).
2. CONTRACTOR TO PROCURE FCC NO. FROM COMPLIANCE COORDINATOR.
3. TEXT FOR SIGNAGE SHALL INDICATE CORRECT SITE NAME AND NUMBER.
4. SIGNS DISPLAYED ON SHEET SHALL BE PLACED ON T-MOBILE COMPOUND ONLY.
5. FOR ADDITIONAL INFORMATION AND PLACEMENT, SEE NOTES UNDER SIGN.

INSTRUCTIONAL & NOTICE SIGN

SCALE N.T.S. 8



NOTES:
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4. SIGNS DISPLAYED ON SHEET SHALL BE PLACED ON T-MOBILE COMPOUND ONLY.
5. FOR ADDITIONAL INFORMATION AND PLACEMENT, SEE NOTES UNDER SIGN.

CAUTION SIGN

SCALE N.T.S. 9

NOTES:
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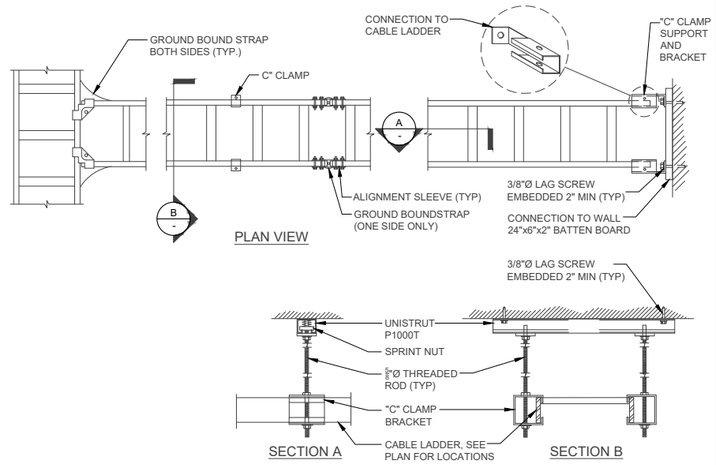
2. CONTRACTOR TO PROCURE FCC NO. FROM COMPLIANCE COORDINATOR.
3. TEXT FOR SIGNAGE SHALL INDICATE CORRECT SITE NAME AND NUMBER.
4. SIGNS DISPLAYED ON SHEET SHALL BE PLACED ON T-MOBILE COMPOUND ONLY.
5. FOR ADDITIONAL INFORMATION AND PLACEMENT, SEE NOTES UNDER SIGN.

CABLE LADDER

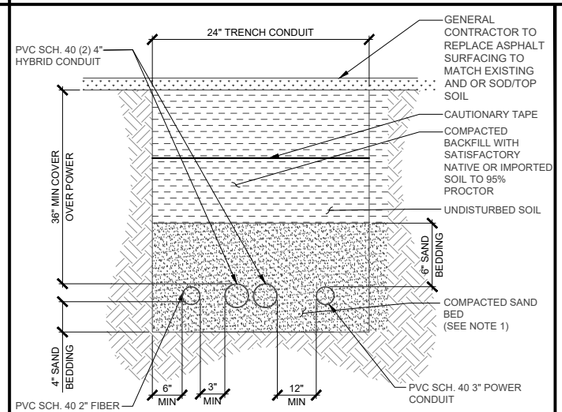
SCALE N.T.S. 1

NOTES:
1. CONTRACTOR SHALL FIELD VERIFY ALL CABLE LADDER LENGTHS, PRIOR TO INSTALLATION.
2. ALL CUT ENDS OF CABLE LADDER TO BE FILED SMOOTH AND PAINTED WITH MATCHING COLOR.
3. BOTTOM OF CABLE LADDER TO BE 7'-6" ABOVE FINISH FLOOR. UNLESS NOTED OTHERWISE.
4. CORNER BRACKETS TO BE ON THE INSIDE, UNLESS LADDER RUNGS INTERFERE, THEN CORNER BRACKETS MAY BE ON THE OUTSIDE.
5. CABLE LADDER RUNGS TO BE ON TOP OF HORIZONTAL LADDER AND AWAY FROM WALL ON VERTICAL LADDERS.
6. NUTS TO BE ON BOTTOM OF ASSEMBLY, OR TOWARDS WALL.
7. 5/8" THREADED RODS, SUPPORTING CABLE LADDER, SPACED 6'-0" APART.
8. AFTER FINAL LEVELING OF CABLE LADDER CUT ROD SO THAT 1/2" OF THE THREADS ARE EXPOSED BELOW THE NUT. CAP EACH OCCURRENCE WITH PROPERLY SIZED VINYL VOLT CAPS.
9. ANCHOR ALL ENDS OF CABLE LADDER TO WALL.
10. INSTALL UNISTRUT AS REQUIRED, OTHERWISE ATTACHED DIRECTLY TO CEILING.
11. ENSURE NEW BLOCKING IS INSTALLED IN WALL AND CEILING TO ACCEPT LAG SCREWS AND OTHER EMBEDMENT REQUIREMENTS.



CONDUIT TRENCH

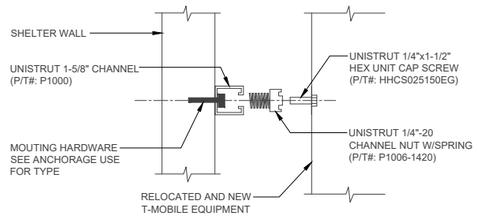
SCALE N.T.S. 5



NOTES:
1. LEAN CONCRETE RED-COLORED TOP, MAY BE USED IN PLACE OF COMPACTED SAND.
2. BURY CONDUITS 36" MINIMUM BELOW FINISHED GRADE.
3. ALL PVC SWEEPS TO BE A MINIMUM 36" SWEEPS.

UNISTRUT MOUNTING

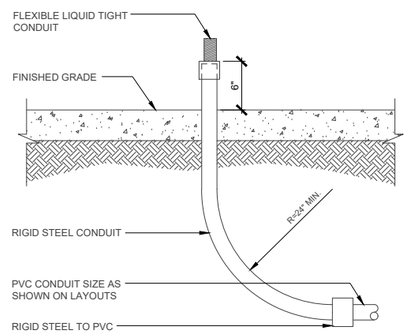
SCALE N.T.S. 6



ANCHORAGE USE:
@ WOOD: 1/2"Ø LAG SCREWS WITH 2" MIN. EMBED.
@ CONCRETE: 1/2"Ø HILTI KB-TZ WITH 2" EMBED. (ICC-ESR#1917)
@ CMU: 1/2"Ø HILTI KB3 WITH 2-1/4" MIN. EMBED. (ICC-ESR#1385)
@ METAL: #10 SIMPSON SELF-DRILLING TAPPING SCREW (ICC-ESR#3006)
IF THRU-BOLTED: 1/2"Ø A307 THRU-BOLTS AND NUTS.

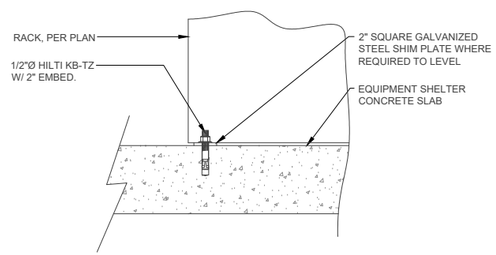
CONDUIT STUB-UP

SCALE N.T.S. 2



RACK ANCHOR DETAIL

SCALE N.T.S. 3



NOTE: ANCHORAGE OCCURS AT EACH CORNER OF THE RACK

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

PLANS PREPARED FOR:

T-Mobile

19807 NORTH CREEK PKWY N
BOTHELL, WA 98011

PLANS PREPARED BY:

Technology Associates

SEATTLE MARKET OFFICE
1455 NW LEARY WAY, STE. 400
SEATTLE, WA 98107

JURISDICTION APPROVAL SEAL:

ENGINEERING SEAL:

PETER C. LUNDQUIST — STATE OF WASHINGTON — 41393 — CIVIL — PROFESSIONAL ENGINEER
08.13.2025

DRAWING NOTICE:

REVISIONS:

DESCRIPTION	DATE	BY	REV
ISSUED FOR 90% CD	07/30/2025	MGM	A
ISSUED FOR 100%CD	08/13/2025	MGM	0

SITE NAME:
WEST BAKERVIEW - SCHLOSSER - SNOPUD

SITE NUMBER:
SE01458B

SITE ADDRESS:
4822 103RD PL SW
MUKILTEO, WA 98275

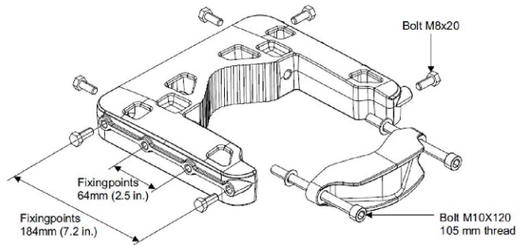
SHEET DESCRIPTION:
DETAILS

SHEET NUMBER:
A-5

LANDLORD SIGNATURE

NOT USED — SCALE N.T.S. — 10

FPKA

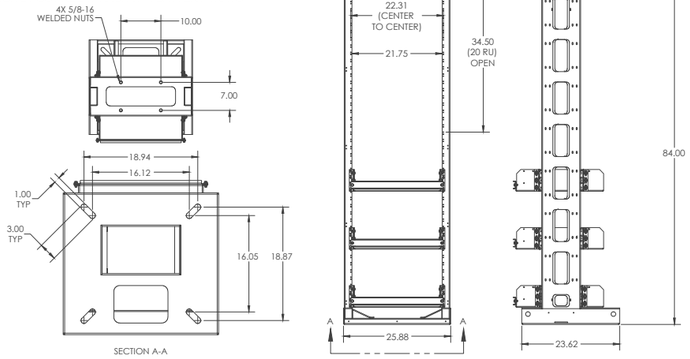


PERSPECTIVE VIEW:

FPKA BRACKET DETAIL — SCALE N.T.S. — 7

DELTA: ELITE POWER -48V 700A

INDOOR RACK MOUNTED POWER SYSTEM
48V/600A RACK (23") MOUNTED POWER SYSTEM
SLIMLINE HIGH POWER / EFFICIENCY DPR2900 RECTIFIERS
7' HIGH 2 POST RELAY RACK W/ 4 BATTERY TRAYS



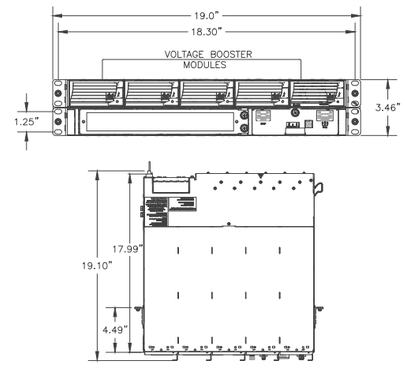
Model	Elite Power Rack -48V 700A	
1. Input		
AC Voltage	Single phase; 2W+PE (L1, L2/N, FG) 110 - 240VAC	
AC Current	Single phase, 32A each (6x) / 190A total (max)	
AC frequency	50 - 60HZ	
2. Output		
Output Voltage	42 – 58VDC; 54VDC (default)	
Output Current	600A @ -54V	
Power Limitation	32.4kW @ -54V	
Voltage Regulation	±1% over line, load, and temperature	
Current Sharing	±5% of the full capacity of the rectifier	
3. General		
Rectifier	DPR 2900C-48, up to 96.3% efficiency, 12x	
Controller	Orion Touch	
Battery	4 Trays, 190AHr	
Dimensions (W x H x D)	24.7" x 84" x 22.6"	
Weight	250 Lbs	
4. Standards		
Safety	IEC / EN 60950, UL1801, UL1950	
EMC	NEBS (GR-1089)	
Operating Temperature	-40°C to +75 °C (-40°F to +167 °F)	
Humidity (relative)	95%, non-condensing (Max.)	
Environment	NEBS Level 3 (earthquake zone 4)	
5. Equipment		
Load Cable Entry	Front access	
Circuit Breakers and Landings	26x -48V, 100A max. per position, ¼"-20, ⅝" center to center	
Fuse Module (optional)	10 position GMT 15A max/position 110A max. total	
Battery landings	(6) ½" holes - ⅝" center to center, (4) ¾ " holes - 1" center to center	
Low Voltage Disconnect	Battery LVD included	
6. Ordering information		
System	ESAA600AHCU03	Elite Power Rack, 7', -48V 600A, (4) Battery Trays including (10) Rectifiers
Rectifier	ESR-48/56C F-A	48V / 56A 2900W, 96.4%, CAN communication
GMT Module (optional)	379926D000-S	10 pos. plug-in module (takes 2 positions)
Load Breaker	083Dxxxxxx	Breaker, Bullet, Mid-Trip, 5A - 250A
Load Breaker Adapter	379923570O-S	2 Pole Lug Adapter Kit (125A -200A)
	379923640O-S	3 Pole Lug Adapter Kit (250A)

DELTA 23" 700A POWER RACK — SCALE N.T.S. — 1

NOT USED — SCALE N.T.S. — 11

PURCELL: VOLTAGE BOOSTER SF-09RJP A-S

DIMENSIONS: 3.46 "x 19.0" x 19.10"
WEIGHT: 48.50 lbs (EMPTY ENCLOSURE)
MODULE WEIGHT: 2.6 lbs (PER)



VOLTAGE BOOSTER — SCALE N.T.S. — 8

NOKIA: AIRSCALE SUBRACK (AMID)

DIMENSIONS: 5.08"x17.60"x15.75"
WEIGHT: 11.68 lbs.
OPERATION VOLTAGE: -48VDC NOMINAL, EXTENDED RANGE -36VDC TO -60VDC
OPERATIONAL TEMP RANGE: -5°C UP TO +60°C CONFIGURATION DEPENDENCY
ENVIR. PROTECTION: IP 20, ETSI EN 300 019-1-3, CLASS 3.1E

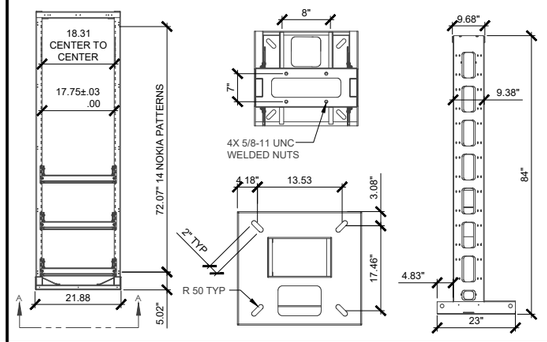
PERSPECTIVE VIEW

AMID — SCALE N.T.S. — 5

DELTA GREEN TECH: TITAN RACK 19"

TITAN RACK,19", 600 MM DEEP BASE,
7FT, 14 NOKIA FLEXI PATTERNS IN
FRONT + 2 EIA RU TELCO GRAY.

NOTES:
1. MATERIAL: HEAVY GAUGE WELDED STEEL FRAME
2. STANDARD FINISH: TELCO GRAY POWDER COAT
3. TELCORDIA GR-63-CORE TESTED FOR SEISMIC ZONE 4 QUALIFICATION.
4. TAPPED MOUNTING HOLES PROVIDED IN FRONT AND REAR FLANGES.
5. LOAD RATING: 925 LBS IN ZONE 4 SISMIC AREAS (INCLUDES 50 LBS OF OVERHEAD CABLE).
6. EMPTY RACK WEIGHT: 147 LBS



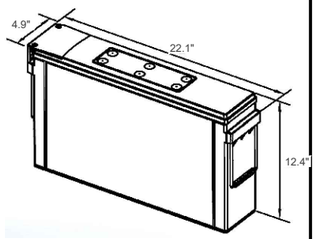
DELTA 19" RACK — SCALE N.T.S. — 2

NOT USED — SCALE N.T.S. — 12

POWERSAFE: SBS 190F

NOMINAL DIMENSIONS
LENGTH: 22.1"
WIDTH: 4.9"
HEIGHT: 12.4"
WEIGHT: 132lbs

# OF CELLS	NOMINAL VOLTAGE (V)	8HR. RATE 1.75Vpc @ 77°F	10HR. RATE 1.80Vpc @ 20°F	SHORT CIRCUIT CURRENT (AMPS)	INTERNAL RESISTANCE MILLI-Ohms	TERMINALS	ELECTROLYTE (1.300 S.G.) VOLUME (per block) gal	L	WEIGHT (per block) lbs	kg	PURE ACID (H SO) ACID VOLUME (per block) gal	L	WEIGHT (per block) lbs	kg	LEAD WEIGHT (per block) lbs	kg
6	12	190	190	3800	3.30	M6 M	2.34	8.86	25.3	11.5	0.66	2.49	10.1	4.56	95.8	43.4

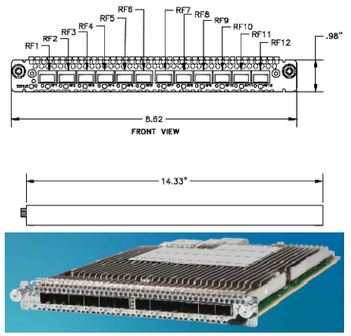


PERSPECTIVE VIEWS

BATTERY SPECIFICATIONS — SCALE N.T.S. — 9

NOKIA: AIRSCALE CAPACITY UNIT (ABIP)

DIMENSIONS: 0.98"x8.62"x14.33"
WEIGHT: 4.41 lbs.
TYP. POWER CONSUMPTION: 70 W (25°C), 77 W (55°C)
OPERATIONAL TEMP RANGE: -5°C TO +55°C FRONT-TO-BACK AIRFLOW
ENVIR. PROTECTION: IP 20, ETSI EN 300 019-1-3, CLASS 3.1E

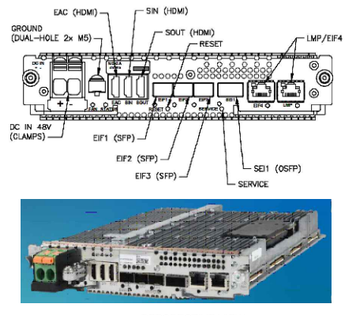


PERSPECTIVE VIEW

ABIP — SCALE N.T.S. — 6

NOKIA: AIRSCALE CONTROL UNIT (ASIM)

DIMENSIONS: 1.89"x8.62"x14.84"
WEIGHT: 6.39 lbs.
TYP. POWER CONSUMPTION: 52 W
OPERATIONAL TEMP RANGE: -5°C TO +55°C FRONT-TO-BACK AIRFLOW
ENVIR. PROTECTION: IP 20, ETSI EN 300 019-1-3, CLASS 3.1E



PERSPECTIVE VIEW

ASIM — SCALE N.T.S. — 3

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T-Mobile

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BOTHELL, WA 98011

PLANS PREPARED BY:

Technology Associates

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1455 NW LEARY WAY, STE. 400
SEATTLE, WA 98107

JURISDICTION APPROVAL SEAL:

ENGINEERING SEAL:

DRAWING NOTICE:

REVISIONS:

DESCRIPTION	DATE	BY	REV
ISSUED FOR 90% CD	07/30/2025	MGM	A
ISSUED FOR 100%CD	08/13/2025	MGM	0

SITE NAME:
WEST BAKERVIEW - SCHLOSSER - SNOPUD

SITE NUMBER:
SE01458B

SITE ADDRESS:
4822 103RD PL SW
MUKILTEO, WA 98275

SHEET DESCRIPTION:
DETAILS

SHEET NUMBER:
A-6

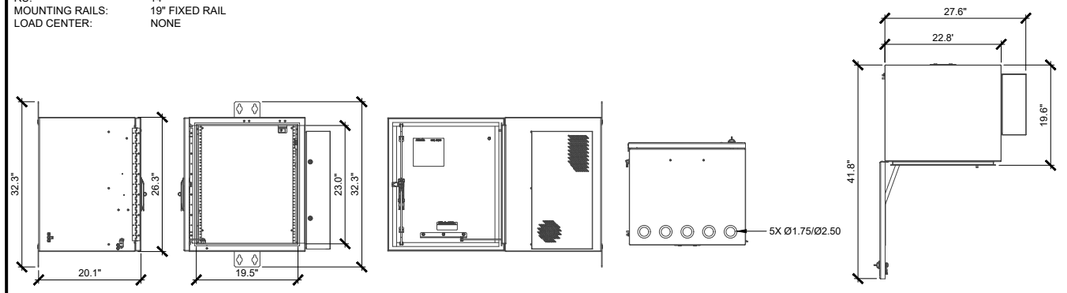
LANDLORD SIGNATURE

NOT USED — SCALE N.T.S. — 10

NOT USED — SCALE N.T.S. — 7

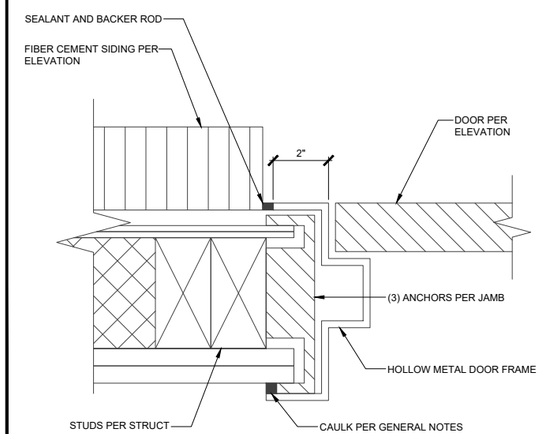
CHARLES UNIVERSAL BROADBAND ENCLOSURES (CUBE) RL1000 SERIES BACKHAUL CABINETS

MANUFACTURER:	CHARLES
MODEL:	CUBE RL1003
DIMENSIONS:	22"H x 22"W x 20"D
WEIGHT:	90 LBS (EMPTY)
RU:	14
MOUNTING RAILS:	19" FIXED RAIL
LOAD CENTER:	NONE

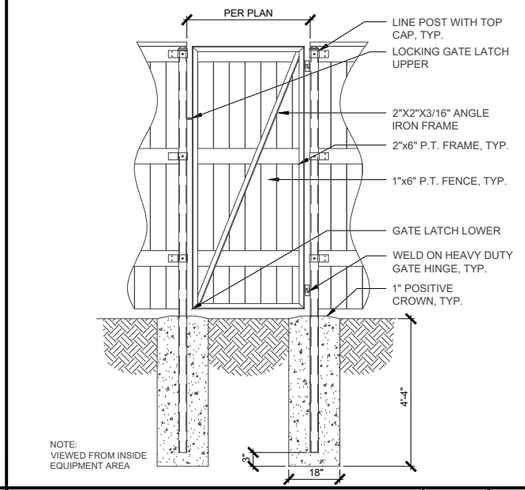


LEFT ELEVATION — FRONT ELEVATION — RIGHT ELEVATION WITH DOOR OPEN — BOTTOM VIEW — PLAN VIEW WITH DOOR OPEN

BACKHAUL CABINET — SCALE N.T.S. — 1



DOOR JAMB — SCALE N.T.S. — 8

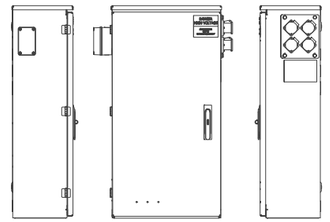


WOODEN GATE — SCALE N.T.S. — 5

RAYCAP: RTMAC-2465-P-240-MTS

MANUFACTURER:	RAYCAP
PART NUMBER:	RTMAC-2465-P-240
UTILITY BREAKER:	200A, 65kAIC
GENERATOR BREAKER:	200A, 10kAIC
GENERATOR INTERFACE:	CAMLOCK
OPERATING AC VOLTAGE:	240/120, 1 PHASE 3W+G
TRANSFER SWITCH:	MANUAL
GFIC:	INCLUDED
LOAD CENTER:	24 POSITION

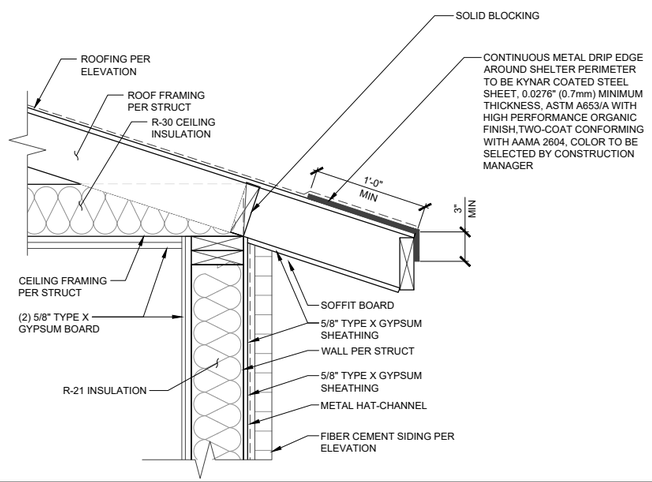
PLAN VIEW



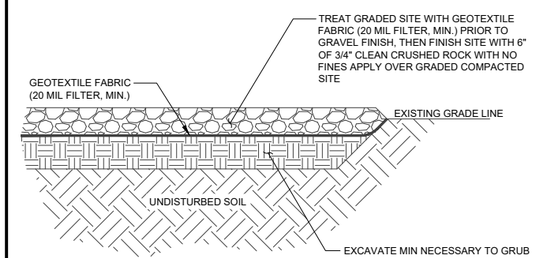
SIDE ELEVATION — FRONT ELEVATION — SIDE ELEVATION

ELECTRICAL PANEL — SCALE N.T.S. — 2

NOT USED — SCALE N.T.S. — 11



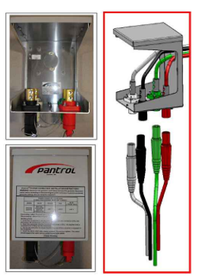
ONE HOUR EXTERIOR WALL PROTECTION AND EAVE PROTECTION — SCALE N.T.S. — 9



COMPOUND: SITE FINISHING — SCALE N.T.S. — 6

PANTROL: PANLOC LITE

DIMENSIONS:	10.5"H X 9"W X 9.25"D
FEATURES:	ELIMINATES MULTIPLE GENERATOR PLUGS AND ADAPTERS INDUSTRY STANDARD, COLOR CODED SINGLE POLE CONNECTORS TOUCH SAFE DESIGN INDUSTRY STANDARD MOUNTING DECREASED DOWN TIME 200A, 3-PHASE CAPABILITIES KAIC RATING: UP TO 10 ,000 AMPS ALUMINUM CONSTRUCTION REMOVABLE ACCESS COVER EASE OF USE UL LISTED



ELEVATIONS

CAM LOCK — SCALE N.T.S. — 3

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SE01458B

SITE ADDRESS:

4822 103RD PL SW
MUKILTEO, WA 98275

SHEET DESCRIPTION:

DETAILS

SHEET NUMBER:

A-7

LANDLORD SIGNATURE

PRODUCT DATASHEET
HB158-21U6S24-XXM SERIES

RFS RADIO FREQUENCY SYSTEMS

HYBRIFLEX® Hybrid Feeder Cabling Solution 6x24, 4AWG, 1-5/8", Single-Mode Fiber, DLC to ODC, with 6AWG DC breakout top

RFS' HYBRIFLEX Remote Radio Head (RRH) hybrid feeder cabling solution combines optical fiber and DC power for RRHs in a single lightweight aluminum corrugated cable, making it the world's most innovative solution for RRH deployments.It was developed to reduce installation complexity and costs at Cellular sites.
HYBRIFLEX allows mobile operators deploying an RRH architecture to standardize the RRH installation process. HYBRIFLEX combines optical fiber (multi-mode or single-mode) and power in a single corrugated cable. It eliminates the need for junction boxes and can connect multiple RRHs with a single feeder. Standard RFS CELLPLEX® accessories can be used with HYBRIFLEX cable. Both pre-connectorized and on-site options are available.

FEATURES / BENEFITS

- Aluminum corrugated armor with outstanding bending characteristics – Minimizes installation time and enables mechanical protection and shielding
- Armored fiber optic breakout – Preserves the integrity of the fiber and provides mechanical/environmental protection
- Same accessories as 1-5/8" coaxial cable
- Outer conductor grounding – Utilizes same grounding methods as coaxial cable
- Lightweight solution and compact design → Decreases tower loading
- Robust cabling – Eliminates need for expensive cable trays and ducts
- Installation of tight bundled fiber optic cable pairs directly to the RRH – Reduces CAPEX and wind load by eliminating need for interconnection
- Optical fiber and power cables housed in single corrugated cable – Saves CAPEX by standardizing RRH cable installation and reducing installation requirements
- Outdoor, black PE jacket – Ensures long-lasting cable protection
- Shielded DC wire – Jacketed and braided cable on top breakout provides grounding and EMI protection
- Maximum robustness – Fully armored cable includes riser trunk and top outdoor breakout

Technical Features

STRUCTURE		
Cable Type		HYBRIFLEX®
Size		1-5/8"
MECHANICAL SPECIFICATIONS		
Outer Diameter Nominal	mm (in)	50.7 (1.996)
Cable Weight	kg/m (lb/ft)	3.65 (2.5)
Minimum Bending Radius, Single Bend	mm (in)	254 (10)
Minimum Bending Radius, Multi Bends	mm (in)	508 (20)
Recommended / Maximum Clamp Spacing	m (ft)	1 / 1.2 (3.25 / 4)
DC POWER CABLE SPECIFICATIONS		
Number of DC Pairs		6
Maximum DC-Resistance Power Cable	Ω/km (Ω/kft)	0.83 (0.25)
Cross Section of Power Cable	mm² (AWG)	21.1 (4)
DC Wire Jacket Material		PVC/Nylon
DC Cable Diameter	mm (in)	7.8 (0.308)
DC Standards (Meets or Exceeds)		For use in UL 1569 , PVC Nylon, RoHS/REACH Compliant
Break-out length (Top)	mm(in)	5000 (197)
Break-out length (Bottom)	mm(in)	1000
DC Cable sealing method		Semi-rigid flame-retarded polyolefin, with hot melt adhesive
CABLE JACKET		
UV-Protection Individual and External Jacket		Yes
ARMOR SPECIFICATIONS		
Armor Type		Corrugated Aluminum
Maximum DC-Resistance of Armor	Ω/km (Ω/kft)	0.58 (0.178)
Diameter Corrugated Armor	mm (in)	48.4 (1.83)
F/O CABLE SPECIFICATIONS		
F/O Cable Type		G657-A1 Single Mode, Bend Tolerant
Number of F/O Pairs		24
Core/Clad	µm	9 /125
Secondary Protection Nominal	µm (in)	900 (0.035)
Single Bending Radius	mm (in)	157 (6.2)
F/O Standards (Meets or Exceeds)		UL Listed Type OFNR (UL1666), RoHS Compliant
Optical Loss	dB/Km	0.5 @ 1310 nm 0.5 @ 1550 nm
Fiber Termination End 1		ODC plug
Fiber Termination End 2		DLC Connector
F/O Break-out length (Top)	mm(in)	700 (27.5)
F/O Break-out length (Bottom)	mm(in)	1610 (63.4)
Cable sealing method		Semi-rigid flame-retarded polyolefin, with hot melt adhesive
TESTING AND ENVIRONMENTAL		
Storage Temperature	°C (°F)	-40 to 79 (-40 to 158)
Operation Temperature	°C (°F)	-40 to 65 (-40 to 149)
Installation Temperature	°C (°F)	-20 to 65 (-4 to 149)
ASSEMBLY LOSS		
Optical Insertion Loss, Assembly or Jumper	Assembly or Jumper	0.4 dB (typ)/0.95dB (max) @1310/1550
SYSTEM LOSS		
Optical Insertion Loss	Total Path	0.8dB (typ)/1.9dB (max) @1310/1550

PRODUCT DATASHEET
HB158-21U6S24-XXM SERIES

RFS RADIO FREQUENCY SYSTEMS

HYBRIFLEX® Hybrid Feeder Cabling Solution 6x24, 4AWG, 1-5/8", Single-Mode Fiber, DLC to ODC, with 6AWG DC breakout top

External Document Links

Installation Guidelines

Notes

Nominal length equals length of trunk not including top and bottom breakouts; breakout lengths add additionally to the total assembly length tip to tip
Top Breakout - DC Power Cable Specifications:
No of DC pairs:6; Specifications per 1 pair: Maximum DC-Resistance Power Cable Ω/km (Ω/kft) 1.4 (0.42), Cross Section of Power Cable mm2 (AWG) 13.3 (6), Overall Cable Diameter mm (in) 17.8 (0.70), DC Cable Jacket Material PVC, EMI Shield Tinned Copper Braid

External Link Reference

View Factory Test Results Online: http://myrfs.rfsworld.com/hybriflex/Default.aspx

6x24		
Second Color	First Color	Fiber Pair
No Second Band	Red	1
	Green	2
	Blue	3
	Yellow	4
	White	5
	Black	6
White	Red	7
	Green	8
	Blue	9
	Yellow	10
	White	11
	Black	12
Green	Red	13
	Green	14
	Blue	15
	Yellow	16
	White	17
	Black	18
Blue	Red	19
	Green	20
	Blue	21
	Yellow	22
	White	23
	Black	24

PRODUCT DATASHEET
HB158-21U6S24-XXM SERIES

RFS RADIO FREQUENCY SYSTEMS

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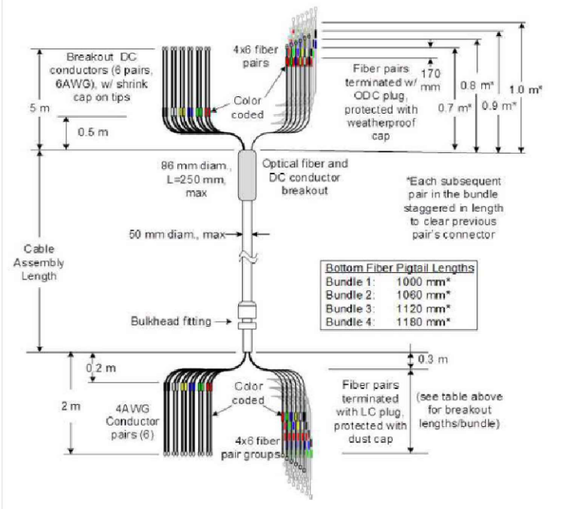

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PLANS PREPARED FOR:

T-Mobile

19807 NORTH CREEK PKWY N
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PLANS PREPARED BY:

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PETER C. LUNDQUIST
STATE OF WASHINGTON
41393
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PROFESSIONAL ENGINEER
08.13.2025

DRAWING NOTICE:

REVISIONS:

DESCRIPTION	DATE	BY	REV
ISSUED FOR 90% CD	07/30/2025	MGM	A
ISSUED FOR 100%CD	08/13/2025	MGM	0

SITE NAME:

WEST BAKERVIEW - SCHLOSSER - SNOPUD

SITE NUMBER:

SE01458B

SITE ADDRESS:

4822 103RD PL SW
MUKILTEO, WA 98275

SHEET DESCRIPTION:

HYBRID TRUNK SPECIFICATIONS

SHEET NUMBER:

A-8

HYBRID TRUNK SPECIFICATIONS

SCALE N.T.S.

1

LANDLORD SIGNATURE

KEYED NOTES:

1. NOT USED
2. INSTALL AIR HANDLING UNITS ON WALL PER MANUFACTURER'S INSTRUCTIONS AND PER DETAILS INDICATED ON DRAWINGS
3. INSTALL OUTDOOR CONDENSING UNIT PER MANUFACTURER'S INSTRUCTIONS AND PER DETAILS INDICATED ON DRAWINGS
4. NOT USED
5. NOT USED
6. NOT USED
7. DIRECTION OF AIR FLOW
8. NOT USED
9. NOT USED
10. NOT USED

HVAC EQUIPMENT SCHEDULE:

CU 1 — INDOOR AIR HANDLER
MITSUBISHI PKA-A36KA7 — EER = 10.8
36,000 BTU/HR TOTAL COOLING CAPACITY — SEER = 18.8
WEIGHT: 46 LBS
UNIT DIMENSION: 14 3/8" H x 46 1/16" W x 11 5/8" D

CU 2 — OUTDOOR CONDENSING UNIT
MITSUBISHI PUY-A36NKA7
36,000 BTU/HR TOTAL COOLING CAPACITY
WEIGHT: 211.0 LBS
UNIT DIMENSION: 52 11/16" H x 41 5/16" W x 13 + 1 3/16" D

ENERGY CONSERVATION NOTE:

1. INSULATION MATERIALS SHALL MEET THE 2021 WASHINGTON STATE ENERGY CODES QUALITY STANDARDS PER SECTION C402 BUILDING ENVELOPE REQUIREMENTS (C402.2).
2. DOORS AND WINDOWS SHALL MEET THE MINIMUM INFILTRATION REQUIREMENTS PER SECTION (C403.4, C402.4.4, C402.1.4).
3. ALL PIPING AND DUCTWORK SHALL BE INSULATED CONSISTENT WITH REQUIREMENTS OF SECTION (C403.2, C403.2.9).

ENVIRONMENTAL CONTROL GENERAL NOTES:

SPACE-ENVIROMENTAL CONTROL SEQUENCE

SITE TEMPERATURE CONTROL IS TO BE PROVIDED BY AIR CONDITIONING UNIT(S) EQUIPPED WITH 1 OR 2-STAGE. COOL/WARM WALL THERMOSTAT PROVIDED BY CONTRACTOR. SYSTEM IS TO OPERATE 24 HOURS A DAY, 7 DAYS A WEEK, 365 DAYS A YEAR AND SHALL MAINTAIN SPACE @ 78°F(±2°).

HVAC GENERAL NOTES:

DESIGN CRITERIA:

SUMMER AUG 3 PM: OUTSIDE TEMPERATURE: 91 FDB 50 % RH
INSIDE TEMPERATURE: 78 FDB 65 % RH

WINTER JAN 12 AM: OUTSIDE TEMPERATURE: 34 FDB
INSIDE TEMPERATURE: 78 FDB

THE SUBCONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH THE BEST ASHRAE AND INDUSTRIAL STANDARDS.

ALL HVAC WORK SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL BUILDING CODES AND FEDERAL HAVING JURISDICTION OVER THE CONSTRUCTION.

SUBCONTRACTOR SHALL EXAMINE THE PROJECT SITE AND DISCUSS GENERAL REQUIREMENTS OF THE BUILDING AND WORK PERFORMANCE WITH THE PROJECT MANAGER. SUBCONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF OTHERS ON THE PROJECT. SUBCONTRACTOR SHALL CONFIRM EXISTING CONDITIONS AND PROVIDE ALL LABOR AND MATERIALS TO MAKE A WORKABLE AND USABLE SYSTEM.

SUBCONTRACTOR IS TO REPORT TO CONSTRUCTION ENGINEER ANY OBSERVATIONS OR CONDITIONS WHICH ARE DISCOVERED IN THE BUILDING WHICH WOULD PREVENT THE FULLEST USE OF THE HVAC SYSTEM.

SUBCONTRACTOR SHALL ARRANGE AND PAY FOR ALL FEES, PERMITS, AND INSPECTIONS CONCERNING THE WORK.

A MAINTENANCE LABEL MUST BE AFFIXED TO MECHANICAL EQUIPMENT. TWO COPIES OF A MAINTENANCE MANUAL FOR THE EQUIPMENT ITEMS SHALL BE PROVIDED TO THE OWNER BY THE SUBCONTRACTOR.

CONDENSATE DRAINS TO BE COPPER TUBING. DRAINS SHALL BE INDIRECT. DRAINS SHALL BE SUPPLIED AND INSTALLED BY THE SUBCONTRACTOR. DRAINS SHALL NOT BE RUN ABOVE ELECTRICAL OR ELECTRONIC EQUIPMENT.

THE SUCTION LINES, AND LIQUID LINES SHALL BE TYPE L HARD DRAWN COPPER TUBING. INSULATED WITH MINIMUM OF 1/2" ARMFLEX OR EQUAL. SOFT COPPER TUBING MAY BE USED IF NECESSARY TO INSTALL LINES AROUND OBSTRUCTIONS. AVOID SHARP BENDS AS TUBING MAY PINCH CAUSING A RESTRICTION. USE LONG RADIUS ELBOWS WHENEVER POSSIBLE SHORT RADIUS ELLS FOR THE TRAPS AT THE BOTTOM OF ALL SECTION RISERS. BRAZE ALL CU TO CU JOINTS WITH SILFOS-5 OR EQUIVALENT BRAZING MATERIAL. DO NOT USE SOFT SOLDER. SUCTION LINES TO BE SUPPORTED A MINIMUM OF EVERY 8'-0" LIQUID LINES TO BE SUPPORTED A MINIMUM OF EVERY 6'-0"

RIGID SPIRAL LOCK-SEAM DUCTS AND FITTINGS MAY BE INTERCHANGED WITH SQUARE OR RECTANGULAR SHEET METAL DUCTWORK AT SUBCONTRACTOR'S OPTION.

ALL LOW VOLTAGE (24V) ALARM WIRING BY SUBCONTRACTOR. ALL CONDUIT BY SUBCONTRACTOR. #22 STRANDED COPPER.

THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE ACQUISITION AND PAYMENT OF ALL PERMITS AND INSPECTORS REQUIRED AND RELATED FEES FOR THIS INSTALLATION. ALL WORK SHALL COMPLY WITH APPLICABLE STATE AND LOCAL CODES.

ALL CONNECTIONS BETWEEN A C UNITS/FANS AND DUCTWORK SHALL HAVE FIREPROOF, HEAVY DUTY FLEX-CONNECTIONS (LOCAL JURISDICTION APPROVED) WITH 3" MIN CLEARANCE. ISOLATE ALL HVAC UNITS/FANS AND EQUIPMENT FROM STRUCTURE WITH APPROVED ISOLATION MOUNTS.

ALL WEATHER EXPOSED EQUIPMENT, DUCTS, ETC., SHALL BE COMPLETELY WEATHERPROOFED.

ALL SUPPLY AND RETURN DUCTS WHERE EXPOSED TO WEATHER AND ELSEWHERE AS INDICATED ON DRAWINGS, SHALL BE LINED WITH 1-1/2", 1-1/2# DENSITY FIBERGLASS INSULATION AND SECURED WITH GALVANIZED WIRES. PROVIDE VAPOR BARRIER ON SUPPLY DUCTS. USE 1-1/2" THICK INSULATION ON SUPPLY, 1-1/2" THICK ON RETURN. LINED DUCTS AND PLENUMS IN CEILING SPACES MAY BE LINED WITH 1" THICK INSULATION.

EER RATING AND HEATING COMBUSTION EFFICIENCY RATING OF EACH HVAC UNIT SHALL COMPLY WITH STATE REQUIREMENTS.

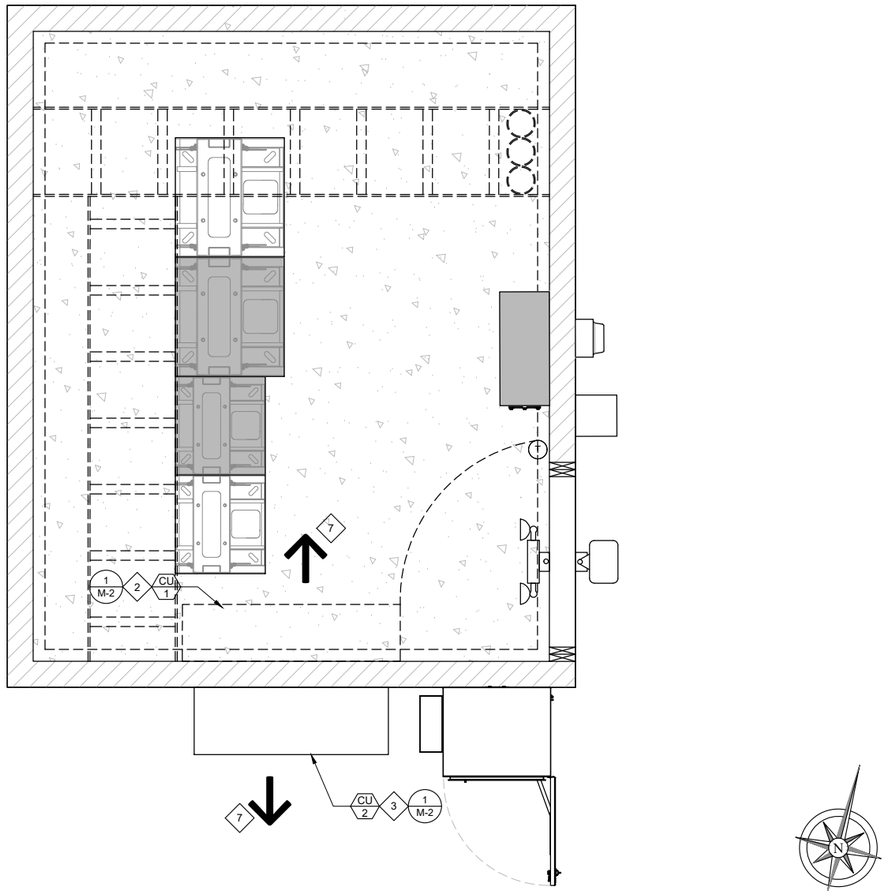
INSULATION SUCTION LINES W/ 1-1/2" THICK MANVILLE "MICROLOK" FIBERGLASS INSULATION W/ VAPOR BARRIER JACKET (ARMAFLEX TYPE EXPANDED URETHANE NOT ACCEPTABLE).

INSTALL CONDENSATE DRAIN LINES AWAY FROM ALL ELECTRICAL, RADIO, AND TELEPHONE EQUIPMENT.

ALL HVAC EQUIPMENT SHALL BE SEISMICALLY BRACED PER LOCAL REQUIREMENTS.

SUBCONTRACTOR MUST PROVIDE TRANSITION FITTINGS FOR ROOF PENETRATIONS FROM ROUND TO SQUARE OR WHATEVER NECESSARY FOR EXHAUST, SUPPLY AND RETURN DUCT APPLICATIONS.

THE SUPPLY AND RETURN DUCTS ARE SHOWN INSIDE LINED OR WHERE LINING IS NOT INDICATED, INSULATE ALL DUCTS PER GENERAL NOTES AND MANUFACTURER'S PRINTED INSTRUCTIONS, INCLUDING ALL DUCT DROPS TO CEILING OUTLETS.



T-MOBILE EQUIPMENT SHELTER MECHANICAL PLAN

SCALE N.T.S. 2

THE SUBCONTRACTOR TO FURNISH AND INSTALL LINE VOLTAGE CONDUIT AND WIRING AND LOW VOLTAGE CONDUIT.

THERMOSTAT SHALL BE LOCATED FIVE FEET (5'-0") ABOVE THE FINISH FLOOR OR AT THE SAME HEIGHT OF ANY ADJACENT ELECTRICAL SWITCHES.

REFER TO MANUFACTURER'S MANUAL FOR RECOMMENDED FUSE AND WIRE SIZES.

ALL SWITCHES, MAGNETIC STARTERS AND CONTACTORS, NOT AN INTEGRAL PART OF THE AIR CONDITIONING EQUIPMENT ARE TO BE FURNISHED AND INSTALLED BY THE SUBCONTRACTOR.

THE SUBCONTRACTOR IS TO MAKE CORRECTIONS TO DEVICES FOR THE AUTOMATIC CONTROL OF THE HVAC INCLUDING AUTOMATIC VALVES AND COMPONENTS WHICH ARE A PART OF THE A/C PIPING SYSTEMS.

ALL FINAL CONNECTIONS TO THE EQUIPMENT ARE TO BE OF FLEXIBLE WEATHERPROOF CONDUIT TO MEET INTERNATIONAL BUILDING CODES. SUBCONTRACTOR TO FURNISH AND INSTALL ALL NECESSARY LOW VOLTAGE WIRING.

GENERAL NOTE (TYPICAL FOR ALL SYSTEMS)

CONTROL DIAGRAMS ARE SCHEMATIC AND ACTUAL WIRING OF ALL EQUIPMENT SHALL BE PERFORMED BASED ON EITHER MANUFACTURER'S RECOMMENDED CONTROL DIAGRAMS OR SUBCONTRACTOR'S APPROVED SHOP DRAWINGS. WRITTEN APPROVALS ON ALL EQUIPMENT AND CONTROL WIRING DIAGRAMS ARE REQUIRED.

HVAC MECH NOTES

SCALE N.T.S. 1

GENERAL MECH NOTES

SCALE N.T.S. 6

NOT USED

SCALE N.T.S. 3

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BOTHELL, WA 98011

PLANS PREPARED BY:

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JURISDICTION APPROVAL SEAL:

ENGINEERING SEAL:

PETER C. LUNDQUIST
STATE OF WASHINGTON
41393
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PROFESSIONAL ENGINEER
08.13.2025

DRAWING NOTICE:

REVISIONS:

DESCRIPTION	DATE	BY	REV
ISSUED FOR 90% CD	07/30/2025	MGM	A
ISSUED FOR 100%CD	08/13/2025	MGM	0

SITE NAME:

WEST BAKERVIEW - SCHLOSSER - SNOPUD

SITE NUMBER:

SE01458B

SITE ADDRESS:

4822 103RD PL SW
MUKILTEO, WA 98275

SHEET DESCRIPTION:

MECHANICAL PLANS & NOTES

SHEET NUMBER:

M-1

MITSUBISHI ELECTRIC
Changes for the Better

P-SERIES

SUBMITTAL DATA: PKA-A36KA7 & PUY-A36NKA7

36,000 BTU/H WALL-MOUNTED AIR-CONDITIONING SYSTEM

Job Name:	Engineer:
Purchaser:	Application: ☐ Std. Cooling ☐ Ultra Low Ambient Cooling
Submitted To:	For: ☐ Reference ☐ Approval ☐ Construction
Submitted By:	Location:
System Designation:	Schedule No.:

Indoor Unit: PKA-A36KA7

Outdoor Unit: PUY-A36NKA7 (-BS)

UNIT OPTION:

☐ Standard Model.....PUY-A36NKA7
☐ Seacoast (BS) Model.....PUY-A36NKA7-BS

ACCESSORIES:

Controls

- ☐ Wireless Controller (MHK1)
- ☐ Advanced Wired Controller (PAR-32MAA / PAR-33MAA)
- ☐ Simple Wired Controller (PAC-YT53CRAU)
- ☐ Wireless Remote Controller (PAR-FL32MA)
- ☐ Thermostat Interface (PAC-US444CN)
- ☐ M-NET Adapter (PAC-SF83MA-E)

Outdoor Unit

- ☐ Rear Snow Guard (SG-1-RE)
- ☐ Side Snow Guard (SG-1-SD)
- ☐ Front Wind Deflector (x2 required) (CM-S-FR-NKMU)
- ☐ Front Wind Blocker (x2 per box) (CM-S-BLK-NKMU)

Note: Mitsubishi Electric (MESCA) supports the use of only MESCA supplied and approved Snow Guard / Wind Deflectors / Windscreens and accessories for proper functioning of the unit/s. Use of non-MESCA supported Snow Guard / Wind Deflectors / Windscreens and accessories will affect warranty coverage.

SPECIFICATIONS:

Rated Conditions (Capacity / Input)*		
Cooling	Btuh / W	36,000 / 3,330

* Rating Conditions per AHRI Standard:
Cooling | Indoor: 80°F (27°C) DB / 67°F (19°C) WB
Cooling | Outdoor: 95°F (35°C) DB / 75°F (24°C) WB

Capacity Range		
Cooling	Btuh	16,000 - 36,000

Operating Range	
Cooling	-40F** (-40.0°C) to 115°F (46°C) DB

** Windscreens required for cooling operation below 23°F (-5°C)

AHRI Efficiency Rating	
EER	10.8
SEER	18.8

Electrical Power Requirements	208 / 230V, 1-Phase, 60 Hz		
Minimum Circuit Ampacity (MCA) *		Breaker Size	MOCP (Outdoor)
Indoor 1 AMP	Outdoor 25 AMP	30 AMP	31 AMP

All electrical work shall comply with National (CEC) and local codes and regulations.

Indoor Unit		
Fan Motor (ECM)	F.L.A.	0.57
Fan Motor Output	W	56
SHF / Moisture Removal		0.70 / 9.7 pt./h
Field Drainpipe Size O.D.	in.(mm)	5/8 (16)

Outdoor Unit		
Compressor		DC INVERTER-driven Twin Rotary
Fan Motor (ECM)	F.L.A.	0.5 + 0.5
Fan Motor Power	W	74

Airflow Rate (Low-Mid-Hi)			
Indoor (Cooling)	DRY	CFM	705-810-920
	WET		635-730-830
Outdoor	DRY		3,880

Sound Pressure Level			
Indoor (Low-Mid-Hi)		dB(A)	43-46-49
Outdoor	Cooling		52

External Dimensions		
Indoor (H x W x D)	in.(mm)	14 3/8 x 46 1/16 x 11 5/8 (365 x 1170 x 295)
Outdoor (H x W x D)		52-11/16 x 41-5/16 x 13 + 1-3/16 (1,338 x 1050 x 330 + 30)

Net Weight		
Indoor	Lbs.(kg)	46 (21)
Outdoor		211 (96)

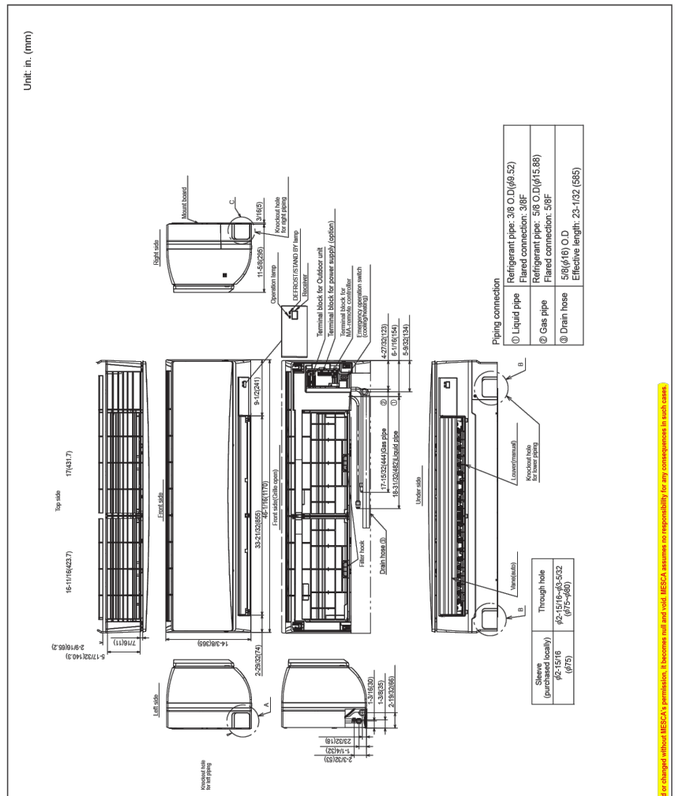
External Finish	
Indoor	White Munsel No. 1.0Y 9.2/0.2
Outdoor	Ivory Munsell No. 3Y 7.8 / 1.1

Refrigerant	R410A ; 10lbs., 6oz. (4.7kg)

Refrigerant Piping (Flared)		
Liquid (High Pressure)	in.(mm)	3/8 (9.52)
Gas (Low Pressure)		5/8 (15.88)
Maximum Total Refrigerant Pipe Length	Ft. (m)	225 (69)
Maximum Vertical Separation	Ft. (m)	100 (30)

Specifications are subject to change without notice.

DIMENSIONS: PKA-A36KA7



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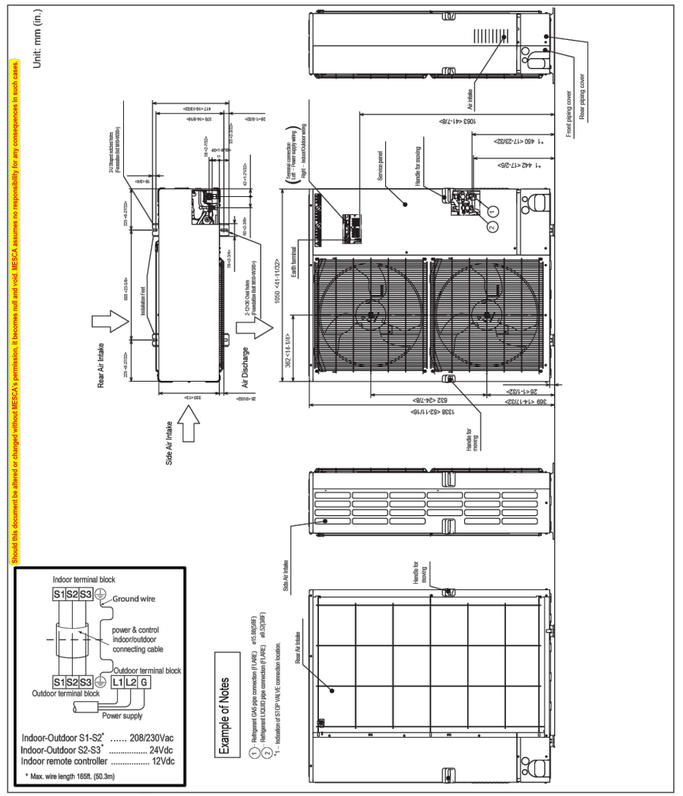
DIMENSIONS: PUY-A36NKA7



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www.MitsubishiElectric.ca

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AIR HANDLER & CONDENSING UNIT SPECIFICATIONS

SCALE N.T.S. | 1

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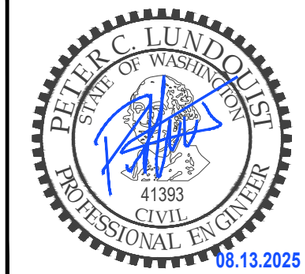

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4822 103RD PL SW
MUKILTEO, WA 98275

SHEET DESCRIPTION:

MECHANICAL SPECIFICATIONS

SHEET NUMBER:

M-2

LANDLORD SIGNATURE

1. GENERAL REQUIREMENTS

A. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE NATIONAL ELECTRIC CODE AND ALL STATE AND LOCAL CODES. NOTHING IN THESE PLANS OR SPECIFICATIONS SHALL BE CONSTRUED AS TO PERMIT WORK NOT CONFORMING TO THE MOST STRINGENT OF THESE CODES. SHOULD CHANGES BE NECESSARY IN THE DRAWINGS OR SPECIFICATIONS TO MAKE THE WORK COMPLY WITH THESE REQUIREMENTS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING AND CEASE WORK ON PARTS OF THE CONTRACT WHICH ARE AFFECTED.

B. THE CONTRACTOR SHALL MAKE A SITE VISIT PRIOR TO BIDDING AND CONSTRUCTION TO VERIFY ALL EXISTING CONDITIONS AND SHALL NOTIFY THE ARCHITECT IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES THE CONTRACTOR ASSUMES ALL LIABILITY FOR FAILURE TO COMPLY WITH THIS PROVISION.

C. THE EXTENT OF THE WORK IS INDICATED BY THE DRAWINGS, SCHEDULES, AND SPECIFICATIONS AND IS SUBJECT TO THE TERMS AND CONDITIONS OF THE CONTRACT. THE WORK SHALL CONSIST OF FURNISHING ALL LABOR, EQUIPMENT, MATERIALS AND SUPPLIES NECESSARY FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM. THE WORK SHALL ALSO INCLUDE THE COMPLETION OF ALL ELECTRICAL WORK NOT MENTIONED OR SHOWN WHICH ARE NECESSARY FOR SUCCESSFUL OPERATION OF ALL SYSTEMS.

D. THE CONTRACTOR SHALL PREPARE A BID FOR A COMPLETE AND OPERATIONAL SYSTEM, WHICH INCLUDES THE COST FOR MATERIAL AND LABOR.

E. WORKMANSHIP AND NEAT APPEARANCE SHALL BE AS IMPORTANT AS THE OPERATION. DEFECTIVE OR DAMAGED MATERIALS SHALL BE REPLACED OR REPAIRED PRIOR TO FINAL ACCEPTANCE IN A MANNER ACCEPTABLE TO OWNER AND ARCHITECT/ENGINEER.

F. COMPLETE THE ENTIRE INSTALLATION AS SOON AS THE PROGRESS OF THE WORK WILL PERMIT. ARRANGE ANY OUTAGE OF SERVICE WITH THE OWNER AND BUILDING MANAGER IN ADVANCE. MINIMIZE DOWNTIME ON THE BUILDING ELECTRICAL SYSTEM.

G. THE ENTIRE ELECTRICAL SYSTEM INSTALLED UNDER THIS CONTRACT SHALL BE DELIVERED IN PROPER WORKING ORDER. REPLACE, WITHOUT ADDITIONAL COST TO THE OWNER, ANY DEFECTIVE MATERIAL AND EQUIPMENT WITHIN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE.

H. ANY ERROR, OMISSION OR DESIGN DISCREPANCY ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR CLARIFICATION OR CORRECTION BEFORE CONSTRUCTION.

I. "PROVIDE": INDICATES THAT ALL ITEMS ARE TO BE FURNISHED, INSTALLED AND CONNECTED IN PLACE.

J. CONTRACTOR SHALL SECURE ALL NECESSARY BUILDING PERMITS AND PAY ALL REQUIRED FEES.

2. EQUIPMENT LOCATION

A. THE DRAWINGS INDICATE DIAGRAMMATICALLY THE DESIRED LOCATIONS OR ARRANGEMENTS OF CONDUIT RUNS, OUTLETS, EQUIPMENT, ETC., AND ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE. PROPER JUDGMENT MUST BE EXERCISED IN EXECUTING THE WORK SO AS TO SECURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE AND TO OVERCOME LOCAL DIFFICULTIES DUE TO SPACE LIMITATIONS OR INTERFERENCE OF STRUCTURE CONDITIONS ENCOUNTERED.

B. IN THE EVENT CHANGES IN THE INDICATED LOCATIONS OR ARRANGEMENTS ARE NECESSARY, DUE TO FIELD CONDITIONS IN THE BUILDING CONSTRUCTION OR REARRANGEMENT OF FURNISHINGS OR EQUIPMENT, SUCH CHANGES SHALL BE MADE WITHOUT COST, PROVIDING THE CHANGE IS ORDERED BEFORE THE CONDUIT RUNS, ETC., AND WORK DIRECTLY CONNECTED TO THE SAME IS INSTALLED AND NO EXTRA MATERIALS ARE REQUIRED.

C. LIGHTING FIXTURES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ONLY. COORDINATE THE FIXTURE LOCATION WITH MECHANICAL EQUIPMENT TO AVOID INTERFERENCE. COORDINATE THE WORK OF THIS SECTION WITH THAT OF ALL OTHER TRADES. WHERE CONFLICTS OCCUR, CONSULT WITH THE RESPECTIVE CONTRACTOR AND COME TO AGREEMENT AS TO CHANGES NECESSARY. OBTAIN WRITTEN ACCEPTANCE FROM ARCHITECT/ENGINEER FOR THE NEW CHANGES BEFORE PROCEEDING.

3. SHOP DRAWINGS

A. N/A UNLESS NOTED OTHERWISE.

4. SUBSTITUTIONS

A. NO SUBSTITUTIONS ARE ALLOWED.

5. TESTS

A. BEFORE FINAL ACCEPTANCE OF WORK, THE CONTRACTOR SHALL INSURE THAT ALL EQUIPMENT, SYSTEMS, FIXTURES, ETC., ARE WORKING SATISFACTORILY AND TO THE INTENT OF THE DRAWINGS.

6. PERMITS

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING OUT AND PAYING FOR ALL THE REQUIRED PERMITS, INSPECTION AND EXAMINATION WITHOUT ADDITIONAL EXPENSE TO THE OWNER.

7. GROUNDING

A. THE CONTRACTOR SHALL PROVIDE A COMPLETE, AND APPROVED GROUNDING SYSTEM INCLUDING ELECTRODES ELECTRODE CONDUCTOR, BONDING CONDUCTORS, AND EQUIPMENT CONDUCTORS AS REQUIRED BY ARTICLE 250 OF NATIONAL ELECTRICAL CODE.

B. CONDUITS CONNECTED TO EQUIPMENT AND DEVICES SHALL BE METALLICALLY JOINED TOGETHER TO PROVIDE AN EFFECTIVE ELECTRICAL CONTINUITY.

C. FEEDERS AND BRANCH CIRCUIT WIRING INSTALLED IN A NONMETALLIC CONDUIT SHALL INCLUDE A CODE SIZED GROUNDING CONDUCTOR HAVING GREEN INSULATION. THE GROUND CONDUCTOR SHALL BE PROPERLY CONNECTED AT BOTH ENDS TO MAINTAIN ELECTRICAL CONTINUITY.

D. REFER TO GROUND BUS DETAILS. PROVIDE NEW SYSTEM, COMPLETE WITH CONDUCTORS, GROUND ROD(S) AND DESCRIBED TERMINATIONS.

E. ALL GROUNDING CONDUCTORS SHALL BE SOLID LINED COPPER AND ANNEALED #2 UNLESS NOTED OTHERWISE.

F. ALL NON-DIRECT BURIED TELEPHONE EQUIPMENT CONDUCTORS SHALL BE #2 STRANDED, GROUND THHN (GREEN) INSULATION.

G. ALL GROUND CONNECTIONS SHALL BE MADE WITH "HYGROUND" COMPRESSION SYSTEM BURNDY CONNECTORS EXCEPT WHERE NOTED OTHERWISE.

H. PAINT AT ALL GROUND CONNECTIONS SHALL BE REMOVED.

I. GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE OWNER FOR FUTURE INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE. SUBMIT TEST REPORTS AND FURNISH TO SMART SMR ONE COMPLETE SET OF PRINTS SHOWING "INSTALLED WORK".

8. UTILITY SERVICE

A. TELEPHONE AND ELECTRICAL METERING FACILITIES SHALL CONFORM TO THE REQUIREMENTS OF THE SERVING UTILITY COMPANIES. CONTRACTOR SHALL VERIFY SERVICE LOCATIONS AND REQUIREMENTS. SERVICE INFORMATION WILL BE FURNISHED BY THE SERVING UTILITIES.

B. CONFORM TO ALL REQUIREMENTS OF THE SERVING UTILITY COMPANIES.

9. PRODUCTS

A. ALL MATERIALS SHALL BE NEW, CONFORMING WITH THE NEC, ANSI, NEMA, AND THEY SHALL BE U.L. LISTED AND LABELED.

B. CONDUIT:

1. RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR, RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP ROCESS NO. 3.
2. ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL, FITTINGS SHALL BE COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.
3. FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE. SEAL TIGHT FLEXIBLE CONDUIT. ALL CONDUIT IN EXCESS OF SIX FEET IN LENGTH SHALL HAVE FULL SIZE GROUND WIRE.
4. CONDUIT RUNS MAY BE SURFACE MOUNTED IN CEILING OR WALLS UNLESS INDICATED OTHERWISE. CONDUIT INDICATED SHALL RUN PARALLEL OR AT RIGHT ANGLES TO CEILING, FLOOR OR BEAMS. VERIFY EXACT ROUTING OF ALL EXPOSED CONDUIT WITH ARCHITECT PRIOR TO INSTALLING.
5. ALL UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE 40 (UNLESS NOTED OTHERWISE) AT A MINIMUM DEPTH OF 24" BELOW GRADE.
6. ALL CONDUIT ONLY (C.O.) SHALL HAVE PULL ROPE.
7. CONDUITS RUN ON ROOFS SHALL BE INSTALLED ON 4 X 4 SLEEPERS, 6'-0" ON CENTER, SET IN NON-HARDENING MASTIC.

C. ALL WIRE AND CABLE SHALL BE COPPER, 600 VOLT, #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED. TYPE THHN INSULATION USED UNLESS CONDUCTORS INSTALLED IN CONDUIT EXPOSED TO WEATHER, IN WHICH CASE TYPE THWN INSULATION SHALL BE USED.

D. PROVIDE GALVANIZED COATED STEEL BOXES AND ACCESSORIES SIZED PER CODE TO ACCOMMODATE ALL DEVICES AND WIRING.

E. DUPLEX RECEPTACLES SHALL BE SPECIFICATION GRADE WITH WHITE FINISH (UNLESS NOTED BY ARCHITECT/ENGINEER), 20 AMP, 125 VOLT, THREE WIRE GROUNDING TYPE, NEMA 5-20R. MOUNT RECEPTACLE AT +12" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED ON DRAWINGS OR IN DETAILS. WEATHERPROOF RECEPTACLES SHALL BE GROUND FAULT INTERRUPTER TYPE WITH SIERRA #WPD-8 LIFT COVERPLATES.

F. TOGGLE SWITCHES SHALL BE 20 AMP, 120 VOLT AC, SPECIFICATION GRADE WHITE (UNLESS NOTED OTHERWISE) FINISH. MOUNT SWITCHES AT +48" ABOVE FINISHED FLOOR.

G. PANELBOARDS SHALL BE DEAD FRONT SAFETY TYPE WITH ANTI-BURN SOLDERLESS COMPRESSION APPROVED FOR COPPER CONDUCTORS, COPPER BUS BARS, FULL SIZED NEUTRAL BUS, GROUND BUS AND EQUIPPED WITH QUICK-MAKE QUICK-BREAK BOLT-IN TYPE THERMAL MAGNETIC CIRCUIT BREAKERS. MOUNT TOP OF THE PANELBOARDS AT 6'-3" ABOVE FINISHED FLOOR. PROVIDE TYPEWRITTEN CIRCUIT DIRECTORY.

H. ALL CIRCUIT BREAKERS, MAGNETIC STARTERS AND OTHER ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED.

I. GROUND RODS SHALL BE COPPER CLAD STEEL, 5/8" ROUND AND 10' LONG. COPPERWELD OR APPROVED EQUAL.

10. INSTALLATION

A. PROVIDE SUPPORTING DEVICES FOR ALL ELECTRICAL EQUIPMENT, FIXTURES, BOXES, PANEL, ETC., SUPPORT LUMINARIES FROM UNDERSIDE OF STRUCTURAL CEILING, EQUIPMENT SHALL BE BRACED TO WITHSTAND HORIZONTAL FORCES IN ACCORDANCE WITH STATE AND LOCAL CODE REQUIREMENTS. PROVIDE PRIOR ALIGNMENT AND LEVELING OF ALL DEVICES AND FIXTURES.

B. CUTTING, PATCHING, CHASES, OPENINGS: PROVIDE LAYOUT IN ADVANCE TO ELIMINATE UNNECESSARY CUTTING OR DRILLING OF WALLS, FLOORS CEILINGS, AND ROOFS. ANY DAMAGE TO BUILDING STRUCTURE OR EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR. OBTAIN PERMISSION FROM THE ARCHITECT/ENGINEER BEFORE CORING.

C. IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, PIPE RUNS, ETC., IT MUST BE CLEARLY UNDERSTOOD THAT TENDONS AND/OR REINFORCING STEEL WILL NOT BE DRILLED INTO, CUT OR DAMAGED UNDER ANY CIRCUMSTANCES.

D. LOCATION OF TENDONS AND/OR REINFORCING STEEL ARE NOT DEFINITELY KNOWN AND THEREFORE, MUST BE SEARCHED FOR BY APPROPRIATE METHODS AND EQUIPMENT VIA X-RAY OR OTHER DEVICES THAT CAN ACCURATELY LOCATE THE REINFORCING AND/OR STEEL TENDONS.

E. PENETRATIONS IN FIRE RATED WALLS SHALL BE FIRE STOPPED IN ACCORDANCE WITH THE REQUIREMENTS OF THE U.B.C.

11. PROJECT CLOSEOUT

A. UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.

B. PROVIDE PROJECT MANAGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS AND CIRCUITS.

C. ALL BROCHURES, OPERATING MANUALS, CATALOG, SHOP DRAWINGS, ETC., SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

ELECTRICAL GENERAL NOTES

1

1. EQUIPMENT POWER SHALL BE 200A, 1Ø, 3W, 120/208V OR 120/240V.
2. UTILITY RECEPTACLE IS A GFCI DUPLEX OUTLET INSTALLED IN THE DEADFRONT OF PPC.
3. PROVIDED A MIN. 36" WORK CLEARANCE IN FRONT OF PANELS / SERVICE EQUIPMENT.
4. ALL BREAKERS IN THE ELEC. PANEL ARE RATED 10,000 RMS SYMMETRICAL AMPS, 240V MAX. 75°C.
5. ALL WIRING SHALL BE COPPER 75°C U.N.O.
6. CONDUIT REQUIREMENTS (TYP., U.N.O.)
   UNDERGROUND: PVC (SCHED 40 OR 80)
   INDOOR: EMT (RGS IN TRAFFIC AREAS)
   OUTDOOR: RGS (ABOVE GRADE)
7. APPLETON EMERGENCY GENERATOR PLUG AT 36" A.F.F. CONTRACTOR TO VERIFY EXACT LOCATION WITH LANDLORD AND UTILITY COORDINATOR.
8. PLACE "TRUE TAPE" AND PULL ROPE IN THE CONDUITS AS REQUIRED.

ELECTRICAL NOTES

SCALE N.T.S. — 2

A	AMPERE	ELEC	ELECTRICAL	MFR	MANUFACTURER	SAF	SAFETY
ACCA	ANTENNA CABLE COVER ASSEMBLY	EMT	ELECTRICAL METALLIC TUBING	MIN	MINIMUM	SDBC	SOFT DRAWN BARE COPPER
		ENCL	ENCLOSURE	MLO	MAIN LUGS ONLY	SEC	SECONDARY
AIC	AMPERE INTERRUPTING CAPACITY	EXIST	EXISTING	MTD	MOUNTED	S.N.	SOLID NEUTRAL
		FAC	FACTOR	MTG	MOUNTING	SURF	SURFACE
APPROX	APPROXIMATELY	F/A	FIRE ALARM	MTS	MANUAL TRANSFER SWITCH	SW	SWITCH
AT	AMPERE TRIP	FLUOR	FLUORESCENT	N	NEUTRAL	TEL	TELEPHONE
AWG	AMERICAN WIRE GAGE	FT	FOOT/FEET	(N)	NEW	TYP	TYPICAL
BATT	BATTERY	FU	FUSE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.	U/G	UNDERGROUND
BD	BOARD	G	GROUND			U.L.	UNDERWRITER'S LABORATORY INC.
BR	BRANCH	GEN	GENERATOR	OH	OVERHEAD		
BRKR	BREAKER	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	P	POLE	U.N.O.	UNLESS NOTED OTHERWISE
BTCW	BARE TINNED COPPER WIRE			PCS	PERSONAL COMMUNICATION SYSTEM	V	VOLT
BTS	BASE TRANSMISSION SYSTEM	GND	GROUNDING			VAC	VOLT ALTERNATING CURRENT
C	CONDUIT	GPS	GLOBAL POSITIONING SYSTEM	PH	PHASE	W	WATT OR WIRE
CAB	CABINET	GR	GROWTH	PNLBD	PANELBOARD	W/	WITH
CB	CIRCUIT BREAKER	HDBC	HARD DRAWN COPPER WIRE	PPC	POWER PROTECTION CABINET	W/O	WITHOUT
CKT	CIRCUIT	HPS	HIGH PRESSURE SODIUM	PRC	PRIMARY RADIO CABINET	XFER	TRANSFER
CONT	CONTINUOUS	LG	LENGTH	PRI	PRIMARY	XFMR	TRANSFORMER
DEM	DEMAND	LPS	LOW PRESSURE SODIUM	PWR	POWER	XLPE	CROSS-LINK POLYETHYLENE
(E)	EXISTING	MAX	MAXIMUM	RCPT	RECEPTACLE		
EGR	EMERGENCY GEN. RECEPTACLE	MECH	MECHANICAL	RGS	RIGID GALVANIZED STEEL		

GENERAL ABBREVIATIONS

SCALE N.T.S. — 3

OHT/OHP — OVERHEAD TELEPHONE/OVERHEAD POWER
OHT — OVERHEAD TELEPHONE LINE
OHP — OVERHEAD POWER LINE
E — POWER RUN
TELCO RUN
T/E — POWER/TELCO RUN
G — GROUNDING CONDUCTOR
GROUNDING CONDUCTOR
CONDUIT UNDERGROUND

LIGHTING FIXTURE, 1/175W. METAL HALIDE, HUBBELL CAT #MIC-0175H-336
5/8" X 10'-0" ,CU. GND ROD 30" MIN. BELOW GRADE.
5/8" X 10'-0" ,CU. GND ROD IN TEST WELL 30" MIN. BELOW GRADE.
CHEMICAL GROUND ROD (XIT GROUND ROD)
CADWELD CONNECTION
MECHANICAL CONNECTION
HALO GROUND CONNECTION
CIRCUIT BREAKER
UTILITY METER BASE
TRANSFORMER

FUSE, SIZE AND TYPE AS INDICATED.
SAFETY SWITCH, 2P-240V-60A W/60A FUSES, NEMA 3R ENCLOSURE, SQ D CATALOG NO. H222NRB
MANUAL TRANSFER SWITCH, 2P-240V-200A, NO FUSE, NEMA 3R ENCLOSURE
LIGHTING FIXTURE, FLUORESCENT, 10.94" x 4'-0", 2/40W, SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG #WSW232T
LIGHTING FIXTURE, FLUORESCENT, 10.94" x 8'-0", 2/95W, SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG #TWSM232T
LIGHTING FIXTURE, HIGH PRESSURE SODIUM, 1/70W, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG #NRG-307 OR 1/50W, HUBBELL LIGHTING CATALOG #NRG-121
EXIT SIGN, THERMOPLASTIC LED, SINGLE FACE, UNIVERSAL MOUNTING, W/BATTERY PACK, HUBBELL LIGHTING CATALOG #PRB
EXIT — COMBINATION, EXIT SIGN & EMERGENCY LIGHTING, HUBBELL LIGHTING CATALOG #PRC
EMERGENCY LIGHTING, 2/50W, HUBBELL LIGHTING CATALOG #HE6-50-2-R91
LIGHTING FIXTURE, INCANDESCENT, 1/100W, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG #BRH-100-06-1
LIGHTING FIXTURE, HALOGEN, QUARTZ, 1/300W, HUBBELL LIGHTING CATALOG #QL-505

RECEPTACLE, 2P-3W-125V-15A, DUPLEX, GROUND TYPE, HUBBEL CATALOG #5362
S — TOGGLE SWITCH, 1P-125V-15A, HUBBELL CATALOG #HBL 1201CN
S_{WP} — TOGGLE SWITCH, 1P-120V-15A, "WP"
S — IONIZATION SMOKE DETECTOR W/ALARM HORN & AUXILIARY CONTACT, 120 VAC, GENTEX PART NO. 7100F
POLE
(N) POLE MOUNTED XFMER
(E) POLE MOUNTED XFMR
(N) PAD MOUNTED XFMER
(E) PAD MOUNTED XFMER

GENERAL LEGEND

SCALE N.T.S. — 4

PLANS PREPARED FOR:

T-Mobile

19807 NORTH CREEK PKWY N
BOTHELL, WA 98011

PLANS PREPARED BY:

Technology Associates

SEATTLE MARKET OFFICE
1455 NW LEARY WAY, STE. 400
SEATTLE, WA 98107

JURISDICTION APPROVAL SEAL:

ENGINEERING SEAL:

PETER C. LUNDQUIST — STATE OF WASHINGTON — 41393 — CIVIL — PROFESSIONAL ENGINEER
08.13.2025

DRAWING NOTICE:

REVISIONS:

DESCRIPTION	DATE	BY	REV
ISSUED FOR 90% CD	07/30/2025	MGM	A
ISSUED FOR 100%CD	08/13/2025	MGM	0

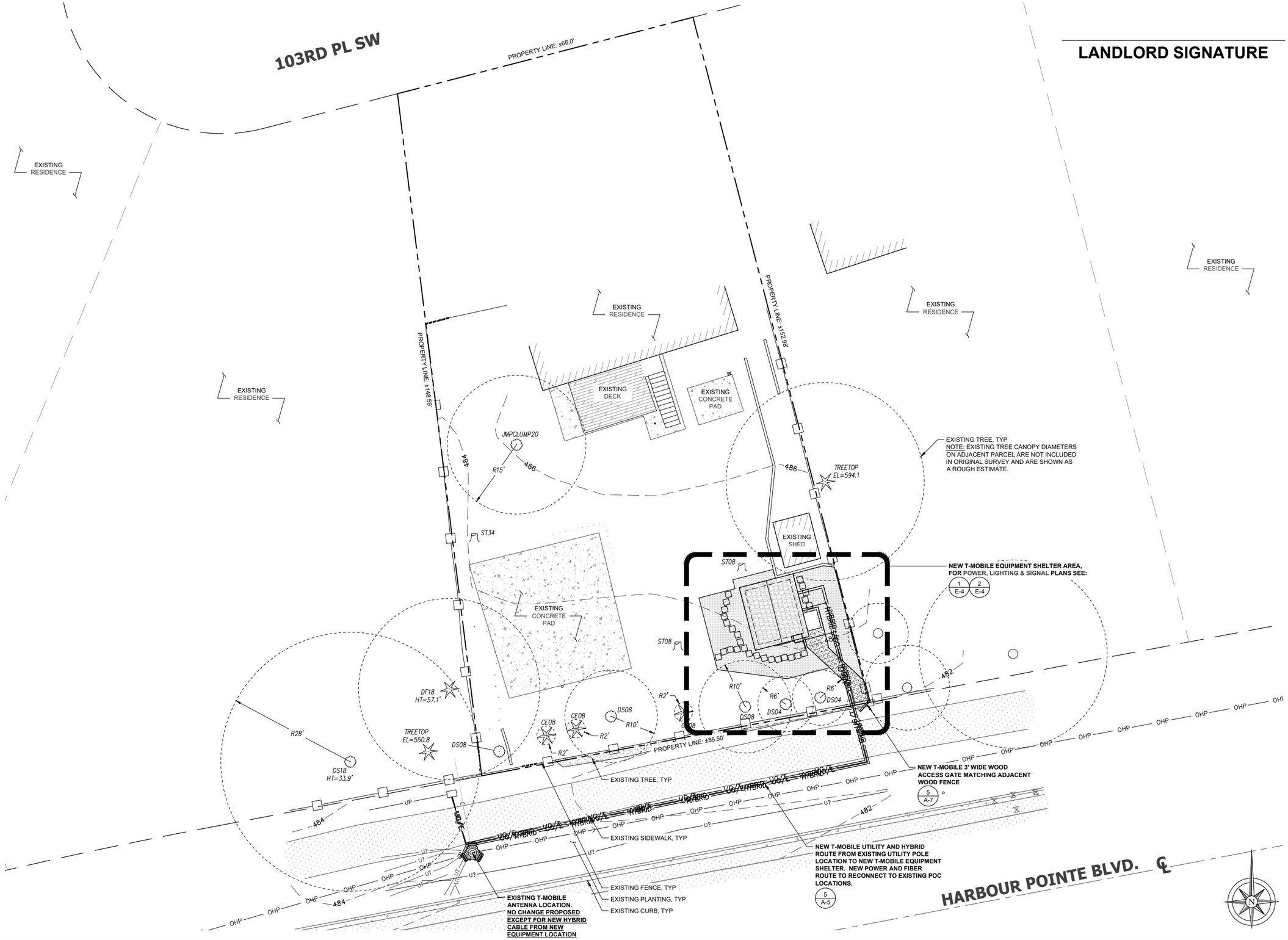
SITE NAME:
WEST BAKERVIEW - SCHLOSSER - SNOPUD

SITE NUMBER:
SE01458B

SITE ADDRESS:
4822 103RD PL SW
MUKILTEO, WA 98275

SHEET DESCRIPTION:
ELECTRICAL NOTES

SHEET NUMBER:
E-1



LANDLORD SIGNATURE

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

ELECTRICAL SITE **PLAN**

10' 0' 5' 10'

SCALE: 1" = 10'-0" (24x36)
(OR) 1/2" = 10'-0" (11x17)

1

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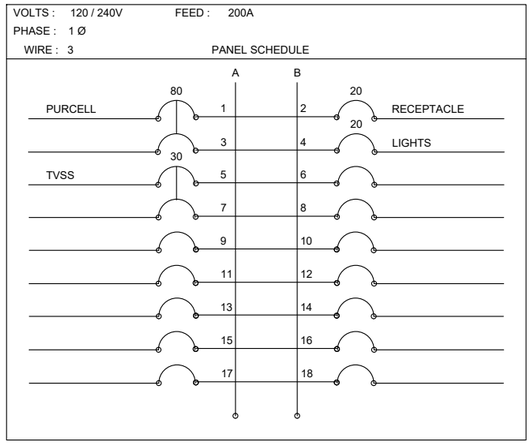
4822 103RD PL SW
MUKILTEO, WA 98275

SHEET DESCRIPTION:

ELECTRICAL SITE PLAN

SHEET NUMBER:

E-2



NOTES :
1. ALL EQUIPMENT (FUSES, CIRCUIT BREAKERS, BUSSING, ETC.) SHALL HAVE A SHORT CIRCUIT RATING EQUAL TO, OR GREATER THAN, THE AVAILABLE SHORT CIRCUIT CURRENT AT THE LOCATION.
2. ALL ELECTRICAL EQUIPMENT SHALL BE U.L. LISTED.
3. ALL ELECTRICAL EQUIPMENT EXPOSED TO THE WEATHER SHALL BE LISTED FOR EXTERIOR USE.
4. SQUARE "0" NOOD PANELBOARD
5. CU-2 SHALL OPERATE ONLY IF CU-1 IS DISCONNECTED FROM POWER BY AUTOMATIC CONTROLS.
6. MULTIPLE CIRCUITS NEED COMMON "OFF" HANDLE CUPS.

PANEL SCHEDULE

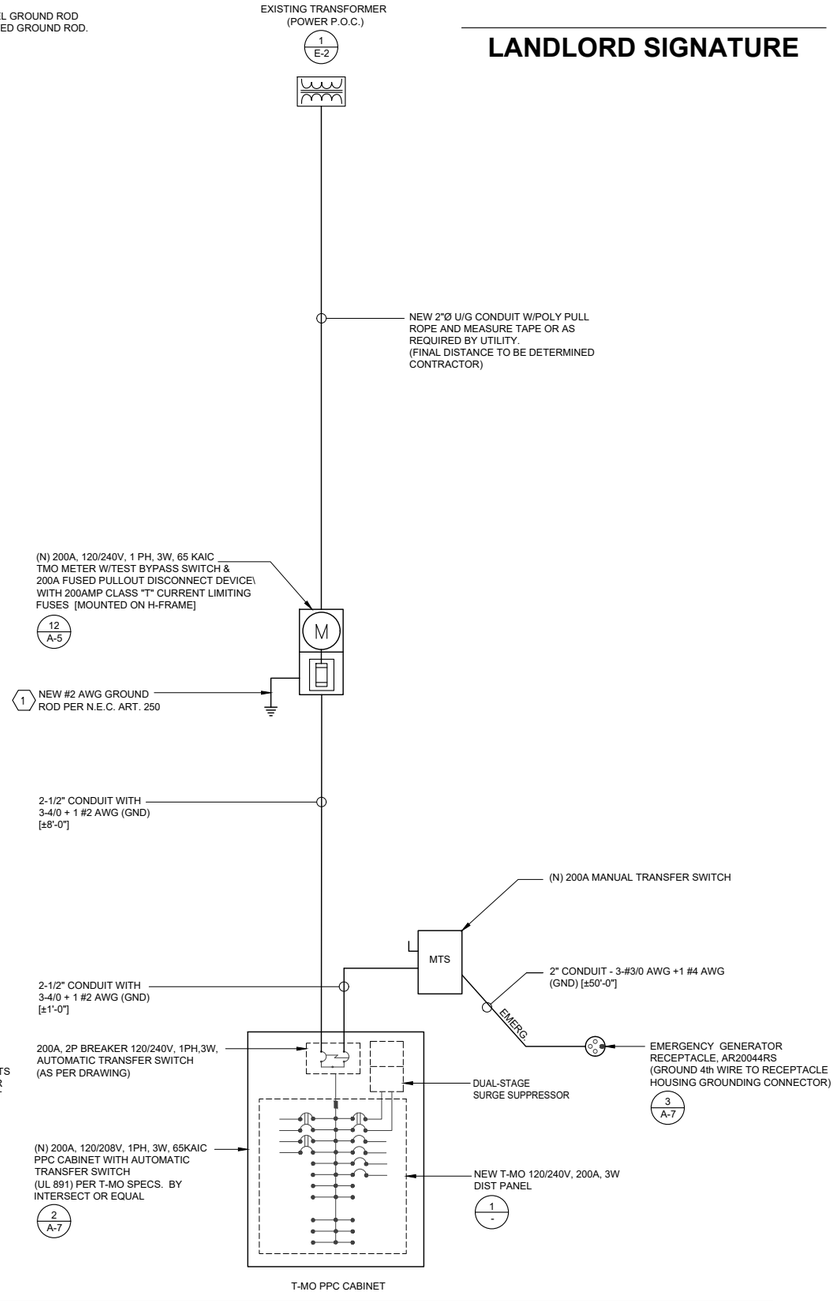
SCALE N.T.S. | 1

NOT USED

SCALE N.T.S. | 2

KEY NOTES:

(1) NEW 5/8"Ø x 10'-0" COPPER CLAD STEEL GROUND ROD AND #2 CU GROUND. BOND TO ISOLATED GROUND ROD.



NOTES:

1. UNLESS NOTED OTHERWISE, ALL CONDUITS TO BE INSTALLED TO BE EMT FOR INDOOR AND RIDGED FOR OUTDOOR, UNLESS NOT ALLOWED BY ELEC CODE.
2. ALL ELECTRICAL CONDUCTORS TO BE APPROPRIATELY SIZED AND TO BE INSTALLED AND CONNECTED BY GC, UNLESS OTHERWISE NOTED.

UTILITY POINTS OF SERVICE AND WORK / MATERIALS SHOWN ARE BASED UPON PRELIMINARY INFORMATION PROVIDED BY THE SITE WALK. PRIOR TO START OF CONSTRUCTION CONTRACTOR TO OBTAIN CURRENT UTILITY PLAN.

CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK / MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY COMPANY ENGINEERING PLANS AND SPECIFICATIONS ONLY. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, PULL ROPES, CABLES, PULL BOXES, CONCRETE ENCASEMENT OF CONDUIT (IF REQUIRED), TRANSFORMER PAD, BARRIERS, POLE RISERS, TRENCHING, BACKFILL, PAY ALL UTILITY COMPANY FEES AND INCLUDE ALL REQUIREMENTS IN SCOPE OF WORK.

ONE LINE DIAGRAM

SCALE N.T.S. | 3

LANDLORD SIGNATURE

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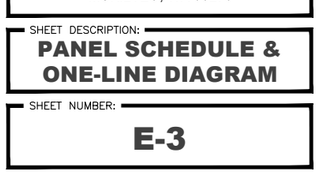

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SE01458B

SITE ADDRESS:

4822 103RD PL SW
MUKILTEO, WA 98275

SHEET DESCRIPTION:

PANEL SCHEDULE & ONE-LINE DIAGRAM

SHEET NUMBER:

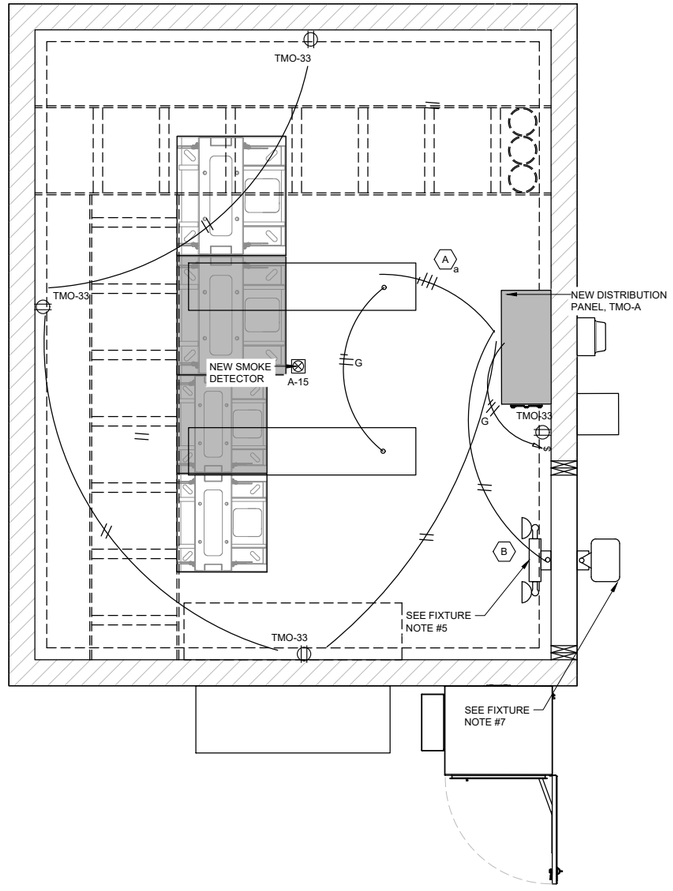
E-3

LEGEND:

- CONDUIT TURNED UP
- 3/4" CONDUIT WITH 2#12 CONDUCTORS PLUS 1#12 EQUIPMENT GROUNDING CONDUCTOR
- 3/4" CONDUIT WITH 2#8 CONDUCTORS PLUS 1#12 EQUIPMENT GROUNDING CONDUCTOR
- A-17 — HOMERUN TO INDICATED PANELBOARD "A" NUMBERS (1,3) INDICATE BRANCH CIRCUIT NUMBERS.
- J — JUNCTION BOX, SIZED PER N.E.C., U.N.O
- DUPLEX RECEPTACLE, GFI PROTECTION, MOUNTED AT +15" AFF U.N.O.
- R — RECEPTACLE, WITH GFI PROTECTION, LOCATED ON ROOF
- Sa — SINGLE POLE, SINGLE THROW TOGGLE SWITCH, MOUNTED AT +48", U.N.O. SUBSCRIPT INDICATES CONTROLLING SWITCH LEG. SPEC. GRADE WITH STAINLESS STEEL PLATE.
- F — DISCONNECT SWITCH, HEAVY DUTY TYPE
- COMBINATION SWITCH, HEAVY DUTY TYPE WITH STARTER
- Sm — HORSEPOWER RATED MANUAL SWITCH

FIXTURE NOTES:

1. FIXTURE CONNECTIONS SHALL BE AS INDICATED ON THE PLANS AND SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF 2015 IECC/WASHINGTON STATE ENERGY CODE.
2. CATALOG NUMBERS ARE BASED ON VENDOR INFORMATION, SALES LITERATURE AND PHOTOMETRIC DATA ON HAND AT THE TIME OF PROJECT DESIGN BY TURPIN & RATTAN AND ARE INTENDED TO CONVEY THE FEATURES/PERFORMANCE REQUIRED. EACH FIXTURE MUST BE PROVIDED COMPLETE WITH ALL FITTINGS AS APPROPRIATE FOR PROPER MOUNTING AT THE LOCATIONS INDICATED.
3. MOUNTING SHALL INCLUDE CONCEALED SOLID BLOCKING FOR FIXTURES MOUNTED IN/ON WALLS AND CEILINGS EXCEPT AT SUSPENDED CEILINGS WHERE SEISMIC ANCHORING AND/OR RESTRAINT SHALL BE PROVIDED.
4. WHERE RECESSED FIXTURES ARE INSTALLED IN FIRE RATED CEILINGS, THE CONTRACTOR SHALL PROVIDE A FIRE RATED ENCLOSURE AROUND EACH FIXTURE.
5. EMERGENCY LIGHT FIXTURE TO BE WIRED TO UNSWITCHED LEG OR CIRCUIT #17.
6. ALL ELECTRICAL OUTLETS NOT SHOWN SHALL BE DISCONNECTED & REMOVED FROM SOURCE.
7. (DESIGNERS EDGE L1707 SV WEATHER TIGHT INDUSTRIAL LIGHT OR EQUIVALENT) OUTDOOR LIGHT



EMERGENCY FIXTURE CONNECTIONS

ALL LIGHT FIXTURES WITH INTEGRAL BATTERY PACKS REQUIRE PERMANENT UNSWITCHED POWER TO ENSURE THE BATTERY IS NEVER ALLOWED TO DRAIN TO ZERO.

DO NOT CONNECT THESE FIXTURES TO TEMPORARY BUILDING CONSTRUCTION POWER.

CONNECT ONLY TO PERMANENT BUILDING POWER WHEN AVAILABLE, AND ACCORDING TO THE RESPECTIVE MANUFACTURERS RECOMMENDATIONS.

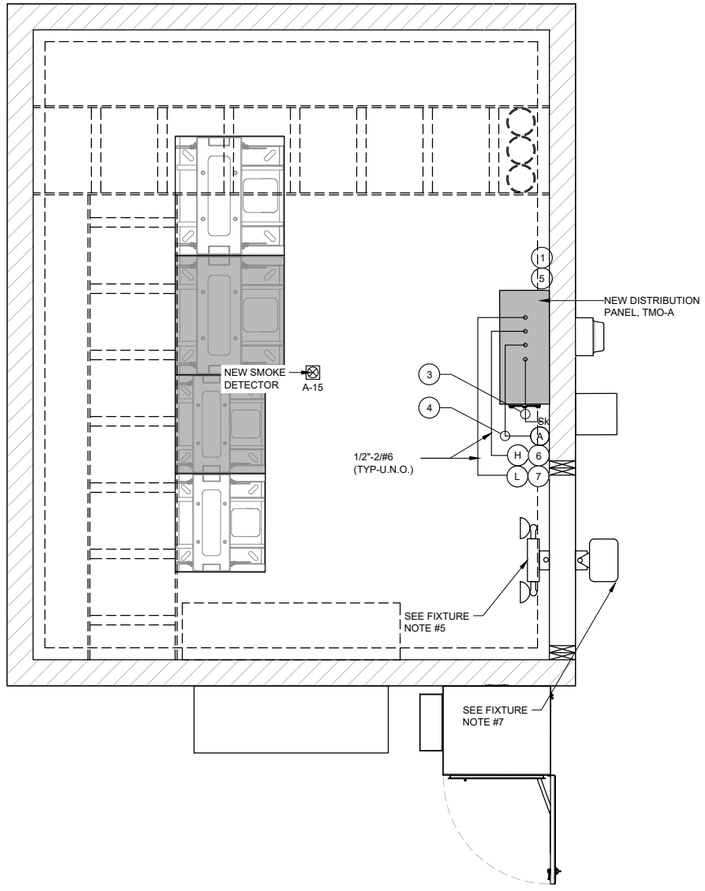
LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	MANUFACTURER AND CATALOG NUMBER	LAMPS				FIXTURE		BALLAST TYPE	BALLAST TYPE	DESCRIPTION
		QTY.	TYPE	WATTS	COLOR TEMP.	INPUT VOLTS	TOTAL INPUT WATTS			
A	LITHONIA LB-232-GEB10	2	T-8	32	3500° K	120	62	ELECTRONIC	SURFACE CEILING	10" WIDE, 4'-0" LONG FLUORESCENT WITH ACRYLIC WRAP-AROUND LENS
B	SURE LITES CC-2/6/8-120/277	1	INCAND. PAR 36	3.6	2700° K	120	<5	-	SURFACE WALL	WHITE EMERGENCY LIGHTING FIXTURE WITH INTEGRAL CHARGER, ADJUSTABLE HEADS AND EXTERNAL TEST BUTTON.

POWER AND LIGHTING PLAN

SCALE N.T.S. 1

LANDLORD SIGNATURE



NOTES:

1. CONDUIT ROUTED @ CEILING PENETRATING TO BUILDING WALL TO TELEPHONE SERVICE @ GROUND LEVEL. FOR CONTINUATION SEE SHEET E2. PROVIDE RADIUS SWEEPS DOWN THROUGH NIU CABINET
2. 120VAC IONIZATION SMOKE DETECTORS SHALL BE PYROTRONICS #449CSRT, WITH AUXILIARY CONTACT(S) CLOSED IN NORMAL MODE. CONNECT CONTACTS IN SERIES AND PROVIDE 1/2"-2#16 BACK TO TELEPHONE BACKBOARD.
3. DOOR ALARM SWITCH SHALL BE 'ADEMCO' MAGNETIC TYPE WITH NORMALLY CLOSED CONTACT. MOUNT AT TOP OF DOOR JAMB ON LATCH SIDE. INSTALL ON 3" ALUMINUM STAND-OFF BRACKET. PROVIDE 1/2"-2#16 BACK TO TELEPHONE BACKBOARD.
4. TECH ON SITE KEY SWITCH AS MANUFACTURED BY 'C & K' COMPONENTS #Y20112ZC203N-Q. PROVIDE 1/2"-2#16 BLACK.
5. COMMERCIAL POWER FAILURE ALARM FROM CUTLER-HAMMER CABINET.
6. HIGH-TEMPERATURE ALARM DEVICE, DAYTON #2E206. PROVIDE 1/2"-2/#16
7. LOW-TEMPERATURE ALARM DEVICE, DAYTON #2E206. PROVIDE 1/2"-2/#16.
8. ATTIC VENTILATION FAN

LEGEND:

- 3/4" CONDUIT WITH 2#12 CONDUCTORS PLUS 1#12 EQUIPMENT GROUNDING CONDUCTOR
- CONDUIT TURNED UP
- CONDUIT INSTALLED EXPOSED
- CONDUIT CONCEALED UNDERFLOOR SLAB OR UNDERGROUND
- SMOKE DETECTOR - IONIZATION TYPE
- H — HIGH TEMPERATURE THERMOSTAT
- L — LOW TEMPERATURE THERMOSTAT
- A — DOOR ALARM SWITCH, AS NOTED. (VERIFY EXACT LOCATION)
- A-18 — HOMERUN TO INDICATED PANELBOARD "A" NUMBERS (1,3) INDICATE BRANCH CIRCUIT NUMBERS.
- Sk — KEY SWITCH AT +48" U.N.O. (VERIFY EXACT LOCATION)

SIGNAL PLAN

SCALE N.T.S. 2

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

PLANS PREPARED FOR:

T-Mobile

19807 NORTH CREEK PKWY N
BOTHELL, WA 98011

PLANS PREPARED BY:

Technology Associates

SEATTLE MARKET OFFICE
1455 NW LEARY WAY, STE. 400
SEATTLE, WA 98107

JURISDICTION APPROVAL SEAL:

ENGINEERING SEAL:

PETER C. LUNDQUIST — STATE OF WASHINGTON — 41393 — CIVIL — PROFESSIONAL ENGINEER

08.13.2025

DRAWING NOTICE:

REVISIONS:

DESCRIPTION	DATE	BY	REV
ISSUED FOR 90% CD	07/30/2025	MGM	A
ISSUED FOR 100%CD	08/13/2025	MGM	0

SITE NAME:

WEST BAKERVIEW - SCHLOSSER - SNOPUD

SITE NUMBER:

SE01458B

SITE ADDRESS:

4822 103RD PL SW
MUKILTEO, WA 98275

SHEET DESCRIPTION:

POWER, LIGHTING & SIGNAL PLAN

SHEET NUMBER:

E-4

ELECTRICAL GROUNDING SPECIFICATIONS

1. GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE CURRENTLY IN EFFECT FOR THE AUTHORITY HAVING JURISDICTION.
2. ALL GROUNDING DEVICES SHALL BE U.L. LISTED FOR THEIR INTENDED USE.
3. GROUND WIRES SHALL BE TINNED #2 AWG BARE SOLID COPPER UNLESS OTHERWISE NOTED.
4. CONNECTIONS OF ALL GROUND WIRES TO THE GROUND RING SHALL BE EXOTHERMIC (CAD-WELDED), UNLESS OTHERWISE NOTED. AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND T-MOBILE WIRELESS BROADBAND STANDARDS.
5. GROUNDING CONDUCTORS SHALL BE ROUTED ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. WHEN REQUIRED, GROUND LEADS SHALL BE BENT TO A MINIMUM OF 8" RADIUS.
6. WHERE GROUND WIRES ARE ROUTED FROM ANY CONNECTION ABOVE GRADE TO THE GROUND RING. INSTALL WIRE IN 3/4" HEAVY WALL LIQUID TIGHT FLEXIBLE CONDUIT FROM CONNECTION POINT TO 5" BELOW GRADE AND SEAL THE TOP WITH SILICONE SEALANT.
7. ALL GROUND BARS SHALL BE TINNED, 1/4" COPPER, SECTOR BARS 2", COLLECTOR AND MGB BARS 4", OF SUFFICIENT LENGTH TO ACCOMMODATE ALL REQUIRED CONNECTIONS WITHOUT DOUBLING LUGS, AND EACH INSTALLED WITH ISOLATORS. WHEN CONNECTING GROUND BARS (WITHIN 10 FEET OF GRADE) DIRECTLY TO THE GROUND RING, 2 EA. #2 SOLID DOWNLEADS SHALL BE CAD-WELDED TO THE GROUND BAR, 1 AT EACH OPPOSITE BOTTOM CORNER, AND EACH SHALL RUN IN 3/4" HEAVY WALL LIQUID TIGHT FLEXIBLE CONDUIT FROM GROUND BAR DOWN TO THE GROUND RING. WHEN CONNECTING SECTOR GROUND BARS, DAISY-CHAIN THE GROUND BARS AND RUN 1 EA. #2 AWG STRANDED COPPER WIRE WITH THWN INSULATION FROM THE MIDDLE GROUND BAR TO THE GROUND RING AND CAD-WELD TO THE RING.
8. WHEN ATTACHING STRANDED GROUND LEADS TO THE GROUND BARS, 2 HOLE COMPRESSION LUGS SHALL BE USED, PROTECT WITH WEATHERPROOF HEAT SHRINK, AND WITH A THIN COAT OF "KOP'R SHIELD" OR EQUIVALENT PROPERLY APPLIED AND ATTACHED ONLY WITH STAINLESS STEEL HARDWARE.
9. WHEN GROUNDING EQUIPMENT ENCLOSURES, PANELS, FRAMES, AND OTHER METAL APPARATUS, A #6 AWG STRANDED COPPER WIRE WITH THWN INSULATION SHALL BE ATTACHED UTILIZING A 2 HOLE COMPRESSION TYPE LUG, PROTECTED WITH WEATHERPROOF HEAT A CLEAN AND CORROSION FREE METALLIC SURFACE UTILIZING STAINLESS STEEL SELF-TAPPING SCREWS AS NOTED IN NOTE 10 BELOW.
10. PREPARE ALL BONDING SURFACES FOR GROUND CONNECTIONS BY REMOVING ANY AND ALL PAINT AND CORROSION TO SHINY METAL. FOLLOWING CAD-WELDED CONNECTIONS TO NON-COPPER SURFACES, APPLY ONE COAT OF ANY ANTI-OXIDIZING PAINT, "COLD GALV" OR EQUIVALENT.
11. GROUND RODS SHALL BE COPPER-CLAD STEEL 5/8"x10', SPACED NO LESS THAN 10' ON CENTER.
12. ALL GROUND SYSTEM CONDUCTORS AND CONDUITS SHALL BE SECURED UTILIZING ONLY NONMETALLIC, NON-CONDUCTIVE, UV RATED CLAMPS, BRACKET, AND OR SUPPORTS.
13. WHEN REQUIRED, THE CONTRACTOR SHALL ENGAGE THE SERVICES OF AN INDEPENDENT TESTING FIRM TO VERIFY, UTILIZING A MEGGER TEST, THAT THE RESISTANCE TO EARTH OF THE NEW GROUND SYSTEM IS EQUAL TO OR LESS THAN 5 (OHMS). A COPY OF THE COMPLETE TESTING REPORT SHALL BE PROVIDED TO THE T-MOBILE REPRESENTATIVE.
14. ALL MATERIALS AND HARDWARE SHALL BR INSTALLED IN A WORKMAN-LIKE MANNER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND DEFINED IN NFPA-70 AND APPROVED BY A,H,J,

LEGEND	
■	EXOTHERMIC CONNECTION
●	MECHANICAL CONNECTION
	EQUIPMENT GROUND BAR
	ANTENNA GROUND BAR (AS REQUIRED)
	#2 AWG GROUND LEAD (AS REQUIRED)

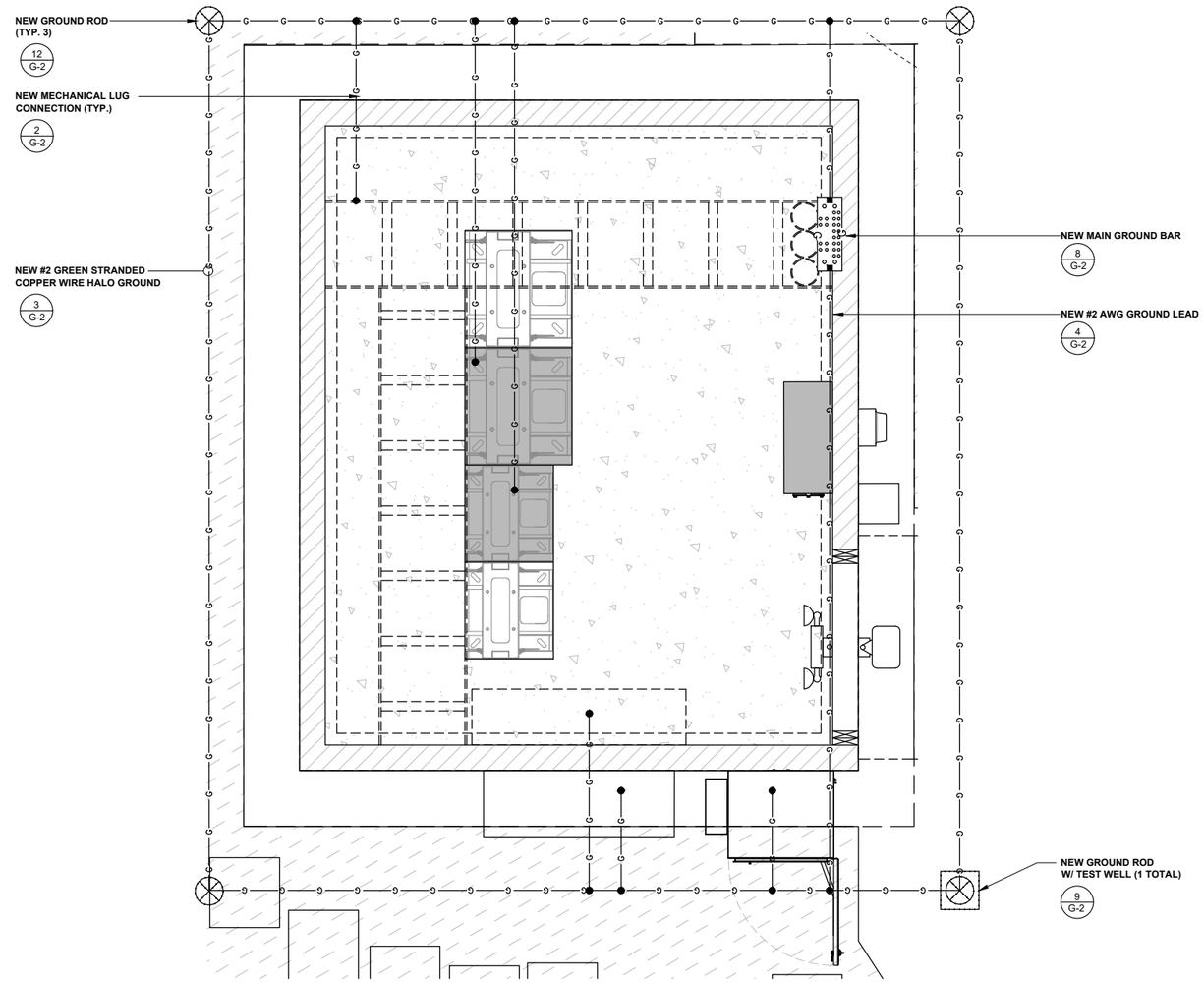
NOTE:

1. CONTRACTOR TO REPLACE ALL MISSING GROUND BARS AND GROUNDING CONNECTIONS AS REQUIRED.

NOTES & LEGEND

SCALE N.T.S. 1

LANDLORD SIGNATURE



EQUIPMENT GROUNDING

SCALE N.T.S. 2

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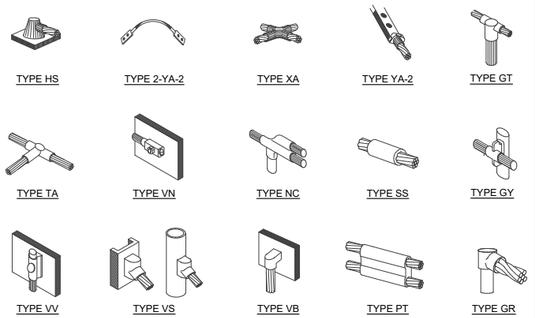
SHEET DESCRIPTION:

GROUNDING PLANS

SHEET NUMBER:

G-1

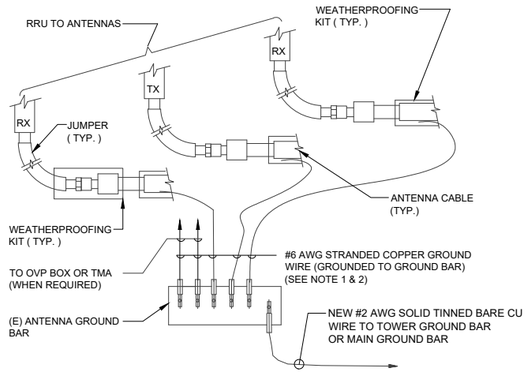


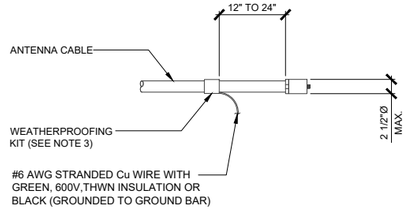
NOTE:

ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH PROJECT MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.

EXOTHERMIC WELDING

SCALE N.T.S. 10





CABLE GROUND KIT TO ANTENNA CABLE CONNECTION

NOTES:

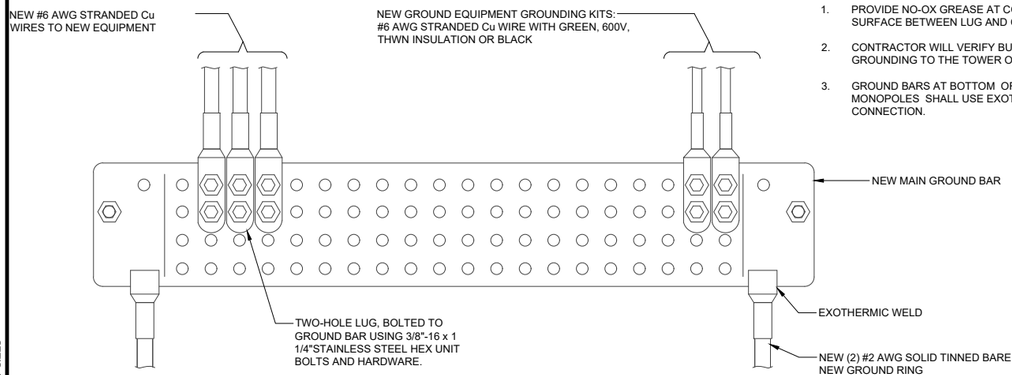
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE WITH TWO-HOLE LUG.
3. WEATHERPROOFING SHALL INCORPORATE PPC WEATHERPROOFING TAPE KIT, COLD SHRINK SHALL NOT BE USED.

CABLE GROUNDING

SCALE N.T.S. 4

NOT USED

SCALE N.T.S. 1



NOTES:

1. PROVIDE NO-OX GREASE AT CONTACT SURFACE BETWEEN LUG AND GROUND BAR
2. CONTRACTOR WILL VERIFY BUSS BAR GROUNDING TO THE TOWER OR RING.
3. GROUND BARS AT BOTTOM OF TOWERS OR MONOPOLES SHALL USE EXOTHERMIC CONNECTION.

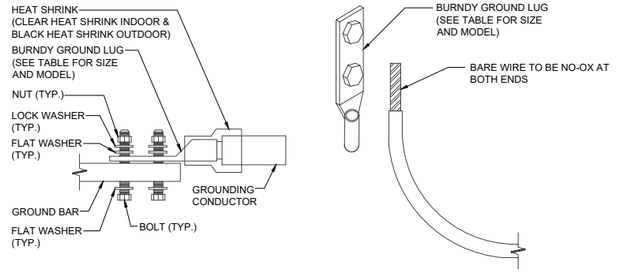
MAIN GROUND BAR

SCALE N.T.S. 8

WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT

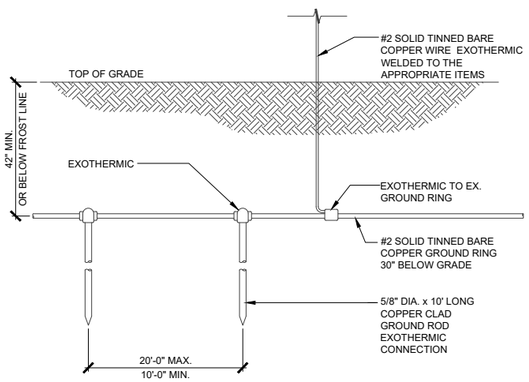
NOTES:

1. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER, LOCK WASHER AND NUT.
2. COPPER SHIELD, ANTIOX. CR NO-OX OR EQUIVALENT SHALL BE PLACE WHERE ALL DISSIMILAR METALS CONNECT.
3. ALL LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
4. ALL LUGS MUST HAVE INSPECTION WINDOWS.



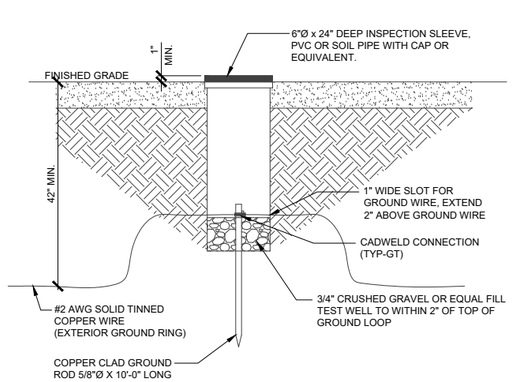
MECHANICAL LUG CONNECTION

SCALE N.T.S. 2



GROUND ROD

SCALE N.T.S. 12

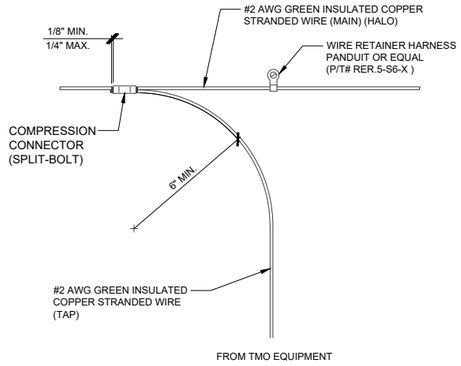


TEST WELL

SCALE N.T.S. 9

NOTES:

1. HALO GROUND SHALL BE #2 AWG STRANDED GREEN COPPER WIRE.
2. VERTICAL DROPS SHALL BE #2 AWG STRANDED GREEN COPPER WIRE.
3. ALL BENDS SHALL MAINTAIN A MINIMUM 6" BEND RADIUS.
4. APPLY ANTI-OXIDATION COMPOUND TO ALL CONNECTIONS.
5. ALL GROUNDING WIRES FOR HVAC GRILLS, BOXES, DOORS, CABLE TRAYS, ETC., SHALL BE #6 AWG GREEN STRANDED COPPER WIRE AND A 2-HOLE LUG.
6. BARE COPPER CONDUCTORS SHALL NOT BE IN CONTACT WITH ANY DISSIMILAR MATERIAL. PLACE ON STANDOFFS IF NECESSARY TO ALLOW FOR PROPER INSTALLATION.
7. ALL GROUNDING CONDUCTORS SHALL BE KEPT AS SHORT AS POSSIBLE. THE SHORTEST PRACTICAL ROUTE SHALL BE CHOSEN WITH THE LEAST AMOUNT OF BENDS AND SPLICES, USE THIS RULE AT ALL TIMES, EVEN IF ELEVATION PLAN CONFLICTS. PLANS ARE SOMETIMES UNCLEAR DUE TO SCALE.
8. ALL CONNECTIONS TO GROUND BARS SHALL BE WITH A 2-HOLE LUG, UNO.
9. ALL SOLID WIRE SHALL USE A 2-HOLE LONG-BARREL LUG.
10. WHEN GROUNDING MORE THAN ONE PIECE OF EQUIPMENT, DO NOT USE THE EQUIPMENT AS A GROUNDING CONDUCTOR. DOUBLE STACKING OF LUGS IS NOT ALLOWED TO BE USED.
11. REMOVE ALL PAINT BENEATH THE SURFACE OF GROUND LUGS. INSTALL PANDUIT CLIP AN "Y" DROP AT CABLE TRAY TO AVOID CONTACT WITH CABLE TRAY.
12. ALL GROUND WIRES CONNECTING TO THE HALO SHALL CONNECT IN THE SHORTEST DIRECTION TO THE MAIN GROUND BAR.
13. INSTALL GROUND BAR UNDER INSTALLED COAX. ALL WIRING AT GROUND BAR IS TYPICAL FOR ALL LOCATIONS.



HALO GROUNDING

SCALE N.T.S. 3

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WEST BAKERVIEW - SCHLOSSER - SNOPUD

SITE NUMBER:

SE01458B

SITE ADDRESS:

4822 103RD PL SW
MUKILTEO, WA 98275

SHEET DESCRIPTION:

GROUNDING DETAILS

SHEET NUMBER:

G-2

1. GENERAL NOTES

1.1. PROJECT SCOPE:
THESE STRUCTURAL DRAWINGS MAY ONLY BE USED TO CONSTRUCT THE PROJECT SHOWN HEREIN, LOCATED AT: 4822 103RD PL SW MUKILTEO, WA 98275

1.2. BUILDING CODE:
THIS DESIGN IS BASED ON THE INTERNATIONAL BUILDING CODE (IBC), 2021 EDITION. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THIS CODE AND CITY OF SEATTLE REQUIREMENTS.

1.3. OCCUPANCY CATEGORY
THIS STRUCTURE IS CLASSIFIED AS A CATEGORY II STRUCTURE.

1.4. DESIGN LOADS:

DEAD LOADS (BASED ON SELF WEIGHT OF CONSTRUCTION MATERIALS)			
LOAD CLASSIFICATION	AREA	CONCENTRATED	NOTES
ROOF	13 PSF	---	---

LIVE LOADS (BASED ON 2021 INTERNATIONAL BUILDING CODE)		
LOAD CLASSIFICATION	AREA	CONCENTRATED
ROOFS	20 PSF	---

SNOW LOADS (BASED ON ASCE 7-16, CHAPTER 7)		
DESIGN VARIABLE	VALUE	NOTES
GROUND SNOW LOAD	20 PSF	PER MAPS WITHIN THE 2021 IBC
DESIGN SNOW LOAD	20 PSF	PER MAPS WITHIN THE 2021 IBC
EXPOSURE FACTOR	1.00	PARTIALLY EXPOSED IN TERRAIN CATEGORY C
THERMAL FACTOR	1.00	ALL OTHER STRUCTURES
IMPORTANCE FACTOR	1.00	OCCUPANCY CATEGORY: II

WIND LOADS (BASED ON ASCE 7-16, CHAPTER 26, THROUGH 30)		
DESIGN VARIABLE	VALUE	NOTES
3-SECOND WIND SPEED	110 MPH	PER MAPS WITHIN THE 2018 IBC
EXPOSURE CLASSIFICATION	C	OPEN TERRAIN WITH SCATTERED OBSTRUCTION

SEISMIC LOADS (BASED ON ASCE 7, CHAPTERS 11 THROUGH 23)		
DESIGN VARIABLE	VALUE	NOTES
Ss	1.402	SPECTRAL RESPONSE ACCEL. PARAMETER AT SHORT PERIODS
S1	0.501	SPECTRAL RESPONSE ACCEL. PARAMETER AT 1-SECOND PERIOD
SOIL SITE CLASS	D	PER GEOTECH OR ASCE 7 SECTION COEFFICIENT
IMPORTANCE FACTOR	1	OCCUPANCY CATEGORY: II
Fa	1.2	SHORT-PERIOD SITE COEFFICIENT
Fv	-	1-SECOND PERIOD SITE COEFFICIENT
Sds	1.122	DESIGN SPECTRAL RESPONSE ACCEL. PARA AT SHORT PERIODS
Sd1	N/A	DESIGN SPECTRAL RESPONSE ACCEL PARA AT 1-SECOND PERIOD
SEISMIC DESIGN CATEGORY	D	BASED ON 1-SEC AND SHORT PERIOD ACCELERATION PARAMETER
R	6.5	RESPONSE MODIFICATION COEFFICIENT
LATERAL FORCE SYSTEM	LIGHT FRAME (WOOD) SHEATHING WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE	

1.5. GENERAL CONSTRUCTION REQUIREMENTS:

1.5.1. CONSTRUCTION METHOD
THE CONTRACT STRUCTURAL DRAWINGS & SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, PROCEDURES, SEQUENCES OF CONSTRUCTION OR JOB SITE SAFETY. THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO FOLLOW PLANS, SPECIFICATIONS, AND/OR ENGINEERING RECOMMENDATIONS, NOR IS TECHNOLOGY ASSOCIATES RESPONSIBLE FOR ECONOMIC LOSS AND/OR DELAYS OF THE CONTRACTOR OR SUBCONTRACTORS.

WHERE CONSTRUCTION MATERIALS ARE PLACED ON FRAMED FLOORS AND/OR ROOFS, THEY SHALL BE SPREAD OUT AND NOT CONCENTRATED IN ANY GIVEN AREA. THE LIVE LOADS SHOWN IN THE TABLE ABOVE SHALL NOT BE EXCEEDED UNDER ANY CIRCUMSTANCES. ALL CONSTRUCTION SHALL BE ADEQUATELY BRACED TO PREVENT DISTORTION AND DAMAGE DUE TO CONSTRUCTION LOADS AND NATURAL FORCES.

THE CONTRACTOR IS RESPONSIBLE FOR SAFETY PRECAUTIONS, PROCEDURES AND PROGRAMS FOR THIS PROJECT THAT SHALL COMPLY WITH THE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

1.5.2. TRADE COORDINATION
THE STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, ELECTRICAL, MECHANICAL, PLUMBING AND SITE DRAWINGS. CONFLICTS IN DIMENSION AND INTERFERENCE SHALL BE DIRECTED TO THE ARCHITECT PRIOR TO CONSTRUCTION.

1.5.3. DISCREPANCIES
IF CONFLICT ARISES FROM THE RECOMMENDATIONS OF THESE DRAWINGS AND THOSE CONTAINED IN THE SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.

1.5.4. OPENINGS
LOCATE AND VERIFY ALL OPENINGS, SLEEVES, POCKETS, CONDUITS, AND INSERTS FOR ARCHITECTURAL, MECHANICAL, PLUMBING, WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION. THESE OPENINGS, SLEEVES, POCKETS, CONDUITS, AND INSERTS SHALL NOT BE PLACED IN BEAMS, JOISTS, COLUMNS, ETC. UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS. TECHNOLOGY ASSOCIATES IS TO BE NOTIFIED WHEN OPENINGS, SLEEVES, POCKETS, ETC. ARE TO BE LOCATED IN STRUCTURAL MEMBERS AND ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS.

1.5.5. TYPICAL DETAILS
TYPICAL DETAILS ARE NOT NECESSARILY CUT ON THE DRAWINGS, BUT SHALL APPLY UNLESS NOTED OTHERWISE.

1.5.6. ENGINEERED DESIGNS BY OTHERS
ANY ENGINEERED DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SIGNATURE AND SEAL OF THE ENGINEER PERFORMING THE WORK. THE ENGINEER IS TO BE REGISTERED IN THE STATE OF WASINGTON.

1.5.7. REFERENCED MATERIAL STANDARDS
WHERE REFERENCE IS MADE TO VARIOUS MATERIAL TEST STANDARDS, THE MOST CURRENT STANDARD AND ADDENDUM ARE TO BE INCORPORATED INTO THIS CONSTRUCTION, UNLESS NOTED OTHERWISE.

1.5.8. DRAWING DIMENSIONS
NO DIMENSION IS TO BE DETERMINED BY SCALING THE DRAWINGS OR DETAILS. IF A DIMENSION IS NOT INDICATED ON THE DRAWINGS AND IS NEEDED, CONTACT THE STRUCTURAL ENGINEER FOR CLARIFICATION. IF DISCREPANCIES ARE FOUND BETWEEN THE STRUCTURAL DRAWINGS AND THE ARCHITECTURAL DRAWINGS, CONTACT THE STRUCTURAL ENGINEER OR THE ARCHITECT FOR CLARIFICATION.

1.5.9. PROPRIETARY PRODUCTS
WHERE PROPRIETARY PRODUCTS FROM SPECIFIC MANUFACTURERS ARE LISTED IN THE STRUCTURAL DRAWINGS, THE CONTRACTOR MAY SUBSTITUTE OTHER PRODUCTS FROM OTHER MANUFACTURERS ONLY AFTER THE APPROVAL FROM TECHNOLOGY ASSOCIATES. THE CONTRACTOR IS TO PREPARE A SUBMITTAL THAT SPECIFICALLY STATES THE ORIGINALLY SPECIFIED PRODUCT, AND ITS ASSOCIATED PROPERTIES SHOWN IN THESE DRAWINGS, ALONG WITH THE REQUESTED REPLACEMENT PRODUCT, AND ITS ASSOCIATED PROPERTIES. THE PROPERTIES OF THE REPLACEMENT PRODUCT ARE TO MEET OR EXCEED THOSE LISTED FOR THE ORIGINAL PRODUCT. THE REPLACEMENT REQUEST IS TO BE SUBMITTED TO TECHNOLOGY ASSOCIATES A MINIMUM OF 2 WEEKS PRIOR TO THE START OF FABRICATION OR CONSTRUCTION. REPLACEMENT PRODUCT REQUESTS SUBMITTED AFTER THIS TIME WILL NOT BE CONSIDERED.

1.5.10. OPTIONS & SUBSTITUTIONS
WHERE OPTIONS ARE SHOWN ON THE DRAWINGS, OR WHERE THE CONTRACTOR SUBSTITUTES ONE PRODUCT FOR AN APPROVED ALTERNATE PRODUCT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RESULTING CHANGES NECESSARY AND SHALL COORDINATE ALL DETAILS FOR THE OPTION OR SUBSTITUTION WITH OTHER TRADES.

2. FOUNDATIONS & SLABS ON GRADE

2.1. GEOTECHNICAL INVESTIGATION:
TECHNOLOGY ASSOCIATES RECOMMENDS THAT THE PROJECT OWNER RETAIN THE DESIGN SERVICES OF A GEOTECHNICAL ENGINEER IN AN EFFORT TO BETTER UNDERSTAND THE SOIL PROPERTIES PRESENT AT THIS SITE. TECHNOLOGY ASSOCIATES WILL NOT BE RESPONSIBLE FOR ADVERSE EFFECTS THAT ARISE IN THE STRUCTURE THAT RESULT FROM UNKNOWN SOIL CONDITIONS.

IN THE ABSENCE OF A GEOTECHNICAL REPORT, MINIMUM DESIGN VALUES AS SPECIFIED IN THE IBC HAVE BEEN USED IN THE DESIGN OF THE FOUNDATIONS.

FOUNDATION DESIGN VALUES AND NOTES PER GEOTECHNICAL REPORT		
PARAMETER	VALUE	VALUE
ALLOWABLE BEARING PRESSURE	1500 PSF	BEARING DEPTH OF 18"

2.2. SPREAD FOOTINGS:
CONVENTIONAL SPREAD-TYPE FOOTINGS HAVE BEEN DESIGNED FOR THE VALUES SHOW IN THE CHART ABOVE AND SHALL BEAR ON COMPACTED NATIVE SITE SOILS. BOTTOM OF FOOTINGS SHALL BE 18" BELOW ADJACENT GRADE. ADJACENT GRADE IS DEFINED AS LOWEST ADJACENT GRADE WITHIN 5'-0" OF THE FOUNDATION FOR EXTERIOR FOOTINGS AND FINISHED FLOOR LEVEL FOR INTERIOR FOOTINGS.

THE SUB GRADE BELOW THE FOOTINGS IS TO BE INSPECTED AND SIGNED OFF BY THE GEOTECHNICAL ENGINEER OF RECORD TO VERIFY THE REQUIREMENTS NOTED IN THE GEOTECHNICAL REPORT HAVE BEEN SATISFIED.

2.3. SLABS ON GRADE:
SLAB ON GRADE SHALL GENERALLY BE ISOLATED FROM ALL WALLS, COLUMNS, AND SERVICE PENETRATIONS USING A 1/2" JOINT PER THE ARCHITECTURAL DRAWINGS.

ALL SLABS SHALL BE FINISHED IN ACCORDANCE WITH ACI STANDARD 302 "GUIDE OF CONCRETE FLOOR AND SLAB CONSTRUCTION" AND ACI STANDARD 360R "GUIDE TO DESIGN OF SLABS-ON-GROUND".

SAW CUT CONCRETE (WITHIN 18 HOURS OF PLACING CONCRETE) SUCH THAT NO MORE THAN 150 SQUARE FEET OF SLAB ARE WITHIN A GRID. SAW CUT JOINTS SHOULD BE SPACED AT NO MORE THAN 15 FEET ON CENTER OR AS INDICATED ON THE DRAWINGS.

A MINIMUM OF 4-INCH LAYER OF CLEAN, GRADED GRAVEL OR CRUSHED ROCK DEVOID OF FINES SHOULD BE PLACED BENEATH THE SLAB, U.N.O.

IN MOISTURE SENSITIVE AREAS, OR AREAS REQUIRED BY THE ARCHITECT, A MINIMUM 10 MIL VAPOR BARRIER, LAPPED 6 INCHES AND TAPED PER MANUFACTURER RECOMMENDATIONS SHALL BE PROVIDED, U.N.O. ANY DAMAGE TO THE VAPOR BARRIER SHALL BE REPAIRED PRIOR TO POURING SLAB IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.

SLABS WITH VAPOR SENSITIVE COVERINGS SHALL BE PLACED DIRECTLY OVER VAPOR BARRIER, WHICH IS PLACED OVER A DRY AGGREGATE BASE COURSE. TO MINIMIZE SLAB CURL, CONTRACTOR SHALL PROVIDE A LOW SHRINKAGE CONCRETE MIX DESIGN.

CONCRETE CLOSURE POURS AROUND COLUMNS SHALL NOT BE PLACED BEFORE THE FULL COLUMN DEAD LOAD IS IN PLACE.

SLAB DOWELS SHALL BE PER PNA CONSTRUCTION TECHNOLOGIES, OR APPROVED EQUIVALENT. SLAB DOWELS, WHERE INDICATED ON THE PLANS SHALL BE PER PNA CONSTRUCTION TECHNOLOGIES (OR APPROVED EQUIVALENT). AT SAW CUT JOINTS, 2"x3/8" TAPERED PLATE DOWELS ARE TO BE USED. AT FORMED CONSTRUCTION JOINTS, 1/4" THICK DIAMOND DOWELS ARE TO BE USED.

3. CONCRETE

3.1. GENERAL REQUIREMENTS
ALL CONCRETE SHALL BE MIXED, TRANSPORTED AND PLACED IN ACCORDANCE WITH ACI STANDARD 301 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE" AND ACI STANDARD 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE". ALL CONCRETE SHALL BE CONSTRUCTED WITHIN THE TOLERANCES SPECIFIED IN ACI STANDARD 117 "SPECIFICATION FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS".

3.2. MIXING REQUIREMENTS

CONCRETE MIX REQUIREMENTS					
INTENDED USE	f'c	SLUMP AT PLACEMENT	MAX w/c RATIO	MAX AGGREGATE	AIR ENTRAINMENT
SPREAD FOOTING & WALL FOOTINGS	3000 PSI	3" TO 5"	---	3/4"	6 ± 1.5
SLABS ON GRADE (INTERIOR)	3000 PSI	5" TO 7"	---	3/4"	6 ± 1.5
SLABS ON GRADE (EXTERIOR)	3000 PSI	5" TO 7"	---	3/4"	6 ± 1.5

EVEN THOUGH A HIGHER CONCRETE COMPRESSIVE STRENGTH IS SHOWN FOR FOUNDATIONS, THEIR DESIGN HAS BEEN BASED ON A COMPRESSIVE STRENGTH OF 2500 PSI.

NO WATER SHALL BE ADDED TO THE MIX ON SITE OR DURING TRANSPORT, UNLESS IT HAS SPECIFICALLY BEEN WITHHELD FROM THE MIX AT THE BATCH PLANT. IF WATER WAS WITHHELD, THE BATCH TICKET SHALL SPECIFICALLY INDICATE THE AMOUNT OF WATER THAT WAS WITHHELD AND THE AMOUNT OF WATER THAT IS ALLOWED TO BE ADDED BEFORE PLACEMENT. AFTER THE ADDITION OF ALL WATER, THE MAXIMUM WATER TO CEMENTITIOUS MATERIAL RATIO NOTED ABOVE IS NOT TO BE EXCEEDED.

IF CONCRETE IS TO RECEIVE A SUPERPLASTICIZING ADMIXTURE, THE SLUMP OF THE CONCRETE SHALL NOT EXCEED 4" ± 1" BEFORE ADDITION OF THE ADMIXTURE. THE SLUMP OF THE CONCRETE AFTER THE ADDITION OF THE ADMIXTURE SHALL NOT EXCEED 8" ± 1" AFTER THE ADDITION OF THE ADMIXTURE.

VARIOUS CEMENTITIOUS MATERIAL MAY BE USED IN THE CONCRETE MIXES NOTED ABOVE, BUT ARE LIMITED TO THE MAXIMUM PERCENTAGES OF TOTAL CEMENTITIOUS MATERIAL SHOWN IN THE TABLE BELOW. USE OF ALL CEMENTITIOUS MATERIALS NOTED BELOW SHALL BE VERIFIED BY THE CONTRACTOR WITH THE ARCHITECTURAL REQUIREMENTS FOR THE PROJECT.

CEMENTITIOUS MATERIAL REQUIREMENTS		
CEMENTITIOUS MATERIAL	REFERENCED STANDARD	MAXIMUM AMOUNT
FLY ASH OR OTHER POZZOLANS	ASTM C618	25%
SLAG	ASTM C989	50%
SILICA FUME	ASTM C1240	10%
TOTAL OF FLY ASH, OTHER POZZOLANS, SLAG AND SILICA FUME	---	50%
TOTAL OF FLY ASH, OTHER POZZOLANS AND SILICA FUME	---	35%

WHERE ANY OF THE ABOVE MATERIALS ARE USED IN COMBINATION, THE INDIVIDUAL LIMITS ARE STILL APPLICABLE, IN ADDITION TO THE TOTAL LIMITS.

STRENGTH TEST RECORDS FOR EACH CONCRETE MIX USED ON THE PROJECT SHALL BE SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318, CHAPTER 5.

3.3. PLACEMENT REQUIREMENTS
ALL CONCRETE IS TO BE MECHANICALLY VIBRATED UPON PLACEMENT. SLABS ON GRADE NEED ONLY BE VIBRATED AT REINFORCING LOCATIONS, ANCHOR LOCATIONS, SLAB EDGES, AND KEYS.REINFORCING LOCATIONS, ANCHOR LOCATIONS, SLAB EDGES, AND KEYS. FOR CONCRETE DRILLED PIER FOUNDATIONS, ONLY THE TOP 5 FEET OF THE PIER REQUIRES MECHANICAL VIBRATION AND IT IS TO BE RE VIBRATED 15 MINUTES AFTER CONCRETE PLACEMENT.

AMBIENT AIR WASINGTONRATURE, CONCRETE WASINGTONRATURE, RELATIVE HUMIDITY, WIND SPEED AND SOLAR RADIATION ALL INFLUENCE CONCRETE'S PROPERTIES. FOR THIS REASON, THE REQUIREMENTS OF ACI 305 "HOT WEATHER CONCRETING" AND ACI 306 "COLD WEATHER CONCRETING" ARE TO BE TO FOLLOWED.

3.4. REINFORCING REQUIREMENTS

3.4.1. REINFORCING MATERIAL REQUIREMENTS
REFER TO THE MAIN REINFORCING SECTION OF THIS G.S.N. FOR ADDITIONAL REINFORCING MATERIAL REQUIREMENTS NOT SHOWN IN THIS SECTION.

3.4.2. LAP SPLICES
LAP SPLICES ARE TO BE PER THE LAP SPLICE SCHEDULE IN THE TYPICAL DETAILS. ALL SPLICE LOCATIONS ARE SUBJECT TO APPROVAL. BENT BARS ARE TO BE PROVIDED AT ALL CORNERS AND INTERSECTIONS AND ARE TO MATCH AND LAP HORIZONTAL REINFORCING BARS IN WALLS AND FOOTINGS.

4. REINFORCING (CONCRETE)

4.1 STEEL REINFORCING

4.1.1 REINFORCING BARS - REFERENCED STANDARDS
ALL STEEL REINFORCING BARS SHALL BE MANUFACTURED AND PLACED IN ACCORDANCE WITH ACI STANDARD 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE BUILDINGS", ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", ACI SP-66, "ACI DETAILING MANUAL", AWS D1.4, "STRUCTURAL WELDING CODE - REINFORCING STEEL", CRSI DA4, "MANUAL OF STANDARD PRACTICE", AND CRSI P1, "PLACING REINFORCING BARS".DA4, "MANUAL OF STANDARD PRACTICE", CRSI P1, "PLACING REINFORCING BARS", ACI 530, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES", AND ACI 530.1, "SPECIFICATION FOR MASONRY STRUCTURES"

REINFORCING BARS - MATERIAL REQUIREMENTS			
BAR TYPES	DESIGNATION	YIELD STRENGTH	NOTES
#5 BARS AND SMALLER (NON-WELDABLE)	ASTM A615	60 KSI	---

4.1.2 REINFORCING BARS - INSTALLATION REQUIREMENTS
ALL REINFORCING IS TO BE SECURELY SET INTO PLACE BEFORE CONCRETE PLACEMENT. PLACEMENT OF CONCRETE AND OTHER CONSTRUCTION RELATED PROCESSES SHALL NOT DISPLACE THE REINFORCING MORE THAN THE SPECIFIED TOLERANCES FOR REINFORCEMENT PLACEMENT. REINFORCING BAR SPACING SHOWN IN THE PLANS AND DETAILS ARE MAXIMUM ON CENTER SPACING..

4.1.3 REINFORCING BARS - BENDS
REINFORCING BARS ARE TO BE BENT PER THE TYPICAL DETAIL. THESE BENDS SHALL BE COMPLETED IN THE SHOP UNDER CONTROLLED CONDITIONS.FIELD BENDING OF REINFORCING BARS IS ONLY PERMITTED UNDER CERTAIN CIRCUMSTANCES, WHICH ARE OUTLINED IN THE TABLE BELOW. FIELD BENDING OF REINFORCING BARS SHALL NOT BE COMPLETED ON BARS LARGER THAN #11. HEAT IS TO BE APPLIED TO ALL #6 BARS AND LARGER AND ALSO TO #5 BARS THAT HAVE BEEN PREVIOUSLY BENT. ONLY #4 BARS AND SMALLER, AND #5 BARS WHICH HAVE NOT BEEN PREVIOUSLY BENT MAY BE BENT WITHOUT APPLYING HEAT. IN APPLYING HEAT, THE ENTIRE BEND LENGTH, PLUS 2" ON EACH END IS TO BE HEATED TO A UNIFORM WASINGTONRATURE THROUGHOUT THE THICKNESS OF THE BAR.

REQUIREMENTS FOR FIELD BENDING OF REINFORCING BARS				
BAR	INSIDE BEND	REQUIRED WASHINGTON TEMPERATURE RANGE		NOTES
SIZE	DIAMETER	MINIMUM	MAXIMUM	
#5	8 BAR DIAMETERS	1300°F	1400°F	---

4.1.4 REINFORCING BARS - CLEAR DISTANCES IN CONCRETE CONSTRUCTION CONCRETE REINFORCING BARS ARE TO BE PLACED IN ORDER TO MAINTAIN THE FOLLOWING CLEAR DISTANCES

CLEAR DISTANCES FOR CONCRETE REINFORCING BARS			
CONDITION	BAR SIZE	CLEAR DISTANCE	NOTES
CAST AGAINST & PERMANENTLY EXPOSED TO EARTH	ALL	3"	---
FORMED CONCRETE EXPOSED TO EARTH AND WEATHER	#5 & SMALLER	2"	---
	#6 & LARGER	1 1/2"	---

4.2. CAST IN PLACE ANCHORS & EMBEDMENT

4.2.1. CAST IN PLACE ANCHORS - MATERIAL REQUIREMENTS
CAST IN PLACE ANCHORS INCLUDE HEADED, HOOKED, AND THREADED ANCHOR ROD. ANCHOR MATERIAL SHALL BE PER THE TABLE BELOW AND ARE TO BE MANUFACTURED AND SUPPLIED IN ACCORDANCE WITH THE REFERENCED SPECIFICATION.

CAST IN PLACE ANCHORS - MATERIAL REQUIREMENTS			
TYPE	SPECIFICATION	GRADE	REQUIREMENTS WHEN WELDED TO PLATE OR MEMBER
ANCHOR RODS	ASTM F1554	36	---
HOOKED ANCHORS	ASTM F1554	36	---

WHEN ASTM F1554, GRADE 55 ANCHORS ARE SPECIFIED, THE MATERIAL SHALL BE ORDERED WITH SUPPLEMENT S1, TO ENSURE WELDABILITY BUT ARE ONLY TO BE WELDED WHERE SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS. ASTM F1554, GRADE 36 ANCHORS MAY BE WELDED, BUT ONLY WHERE SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS. ASTM F1554, GRADE 105 ANCHORS ARE NEVER TO BE WELDED. WHERE ASTM F1554, GRADE 36 ANCHORS ARE SPECIFIED, ANCHORS PER ASTM A36 MAY BE USED FOR ANCHOR ROD APPLICATIONS.

UNLESS NOTED OTHERWISE, ALL NUTS USED ON ANCHORS SHALL BE PER ASTM A194 AND SHALL BE A COMPATIBLE GRADE, SURFACE FINISH, AND STYLE FOR EACH GRADE, AND SIZE OF ANCHOR BOLT USED.

4.2.2. CAST IN PLACE ANCHORS - CONSTRUCTION REQUIREMENTS
WHERE THREADED, HEADED, DEFORMED, OR HOOKED ANCHORS ARE TO BE WELDED TO A PLATE OR OTHER MEMBER THEY SHALL BE AUTOMATICALLY WELDED TO THE CONNECTING PLATE OR MEMBER.

ANCHOR RODS ALONE ARE NOT TO BE USED TO TRANSFER ANY LOADS. THE ANCHORING MECHANISM SHALL CONSIST OF TWO NUTS ON THE EMBEDDED END OF THE ROD WITH A PLATE WASHER BETWEEN THE NUTS. THE NUTS ARE TO BE TIGHTENED AGAINST EACH OTHER AND THE PLATE WASHER TO SECURE THEM IN PLACE. THE END OF THE ROD IS TO PROTRUDE 1/2" MINIMUM BEYOND THE LAST NUT AND THE ROD THREADS ARE TO BE DINGED ABOVE AND BELOW THE NUTS, AFTER THE NUTS ARE TIGHTENED TO PREVENT THEM FROM SPINNING OFF DURING CONSTRUCTION.

5. WOOD

5.1. GENERAL REQUIREMENTS

5.1.1. REFERENCED STANDARDS
ALL WOOD CONSTRUCTION TO BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH THE NDS, "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION".

5.1.2. NOTCHING OR DRILLING OF MEMBERS
NO WOOD FRAMING MEMBER SHALL BE DRILLED OR NOTCHED UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS OR WITHOUT PRIOR APPROVAL FROM TECHNOLOGY ASSOCIATES.

5.1.3. INTERIOR DEMISING WALLS
ALL NON-LOAD BEARING INTERIOR DEMISING WALLS SHALL HAVE A 1/2" GAP BETWEEN THE TOP OF THE WALL AND THE UNDERSIDE OF THE FRAMING ABOVE. TO LATERALLY BRACE THE WALL, INSTALL SIMPSON DTC CLIPS AT 24" O.C., OR AT EACH FRAMING MEMBER, WHICHEVER IS SMALLER.

5.1.4. PRESSURE TREATED LUMBER
ALL WOOD MEMBERS BEARING ON CONCRETE OR MASONRY ARE TO BE TREATED IN ACCORDANCE WITH THE AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) STANDARD U1 TO THE REQUIREMENTS OF USE CATEGORY 2 (UC2) FOR ALL INTERIOR APPLICATIONS AND USE CATEGORY 3B (UC3B) FOR ALL EXTERIOR APPLICATIONS. REFER TO THE ARCHITECTURAL DRAWINGS OR SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. THE PRESERVATIVE COMBINATION USED SHALL, IN NO WAY, ADVERSELY EFFECT THE PERFORMANCE OF STEEL FASTENERS, HANGERS, STRAPS, OR HOLDOWNS.

AT A MINIMUM, THE FOLLOWING REQUIRES PRESSURE TREATED WOOD:
(A) WOOD FRAMING MEMBERS, INCLUDING WOOD SHEATHING, THAT ARE IN CONTACT WITH EXTERIOR FOUNDATION WALLS AND ARE LESS THAT 8 INCHES FROM EXPOSED EARTH.
(B) WOOD FRAMING MEMBERS IN DIRECT CONTACT WITH THE INTERIOR OF EXTERIOR MASONRY OR CONCRETE WALLS BELOW GRADE.
(C) SILLS ON A CONCRETE SLAB THAT IS IN DIRECT CONTACT WITH EARTH.
(D) WHERE CLEARANCE BETWEEN WOOD SIDING AND EARTH ON EXTERIOR OF A BUILDING IS LESS THAN 6" OR LESS THAN 2" VERTICAL FROM CONCRETE STEPS, PORCH SLABS, PATIO SLAB, ETC.

5.1.5. WOOD PLATES
ALL WOOD PLATES ON STEEL BEAMS, STEEL JOISTS, STEEL JOIST GIRDERS, OR STEEL COLUMNS ARE TO BE CONNECTED TO THE STEEL MEMBERS WITH HILTI X-U POWDER ACTUATED FASTENERS AT 12" O.C., (2 ROWS STAGGERED), UNLESS NOTED OTHERWISE. INSTALL FASTENERS IN ACCORDANCE WITH ICC ES ESR-2269.

5.1.6. MOISTURE CONTENT
IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE MOISTURE CONTENT IN WOOD MEMBERS IS NOT MORE THAN 19% AT TIME OF INSTALLATION AND IS NOT MORE THAN 16% AT TIME OF LOADING (10% MAX FOR WALL FRAMING SUPPORTING ONE OR MORE FLOORS).

5.1.7. MEMBER IDENTIFICATION
UNLESS NOTED OTHERWISE, ALL STRUCTURAL WOOD MEMBERS ARE TO BEAR THE STAMP OF THE GRADING AGENCY. FOR SAWN LUMBER, THE STAMP SHALL INCLUDE THE NAME OF THE GRADING AGENCY ALONG WITH THE GRADE, SPECIES, AND MOISTURE CONTENT. FOR WOOD STRUCTURAL PANELS, THE STAMP SHALL INCLUDE THE CODE RECOGNITION OF APA AS THE QUALITY ASSURANCE AGENCY, PANEL GRADE, SPAN RATING, EXPOSURE DURABILITY CLASSIFICATION, THICKNESS, MILL NUMBER AND APA PERFORMANCE RATED PANEL STANDARD. ALL ENGINEERED LUMBER IS TO BEAR THE STAMP OF THE MANUFACTURER CONTAINING THE PRODUCT DESIGNATION OR TYPE, THE PRODUCTION DATE, THE GRADE, AND THE NAME OF THE INSPECTION AGENCY.

5.2. SAWN LUMBER

5.2.1. MATERIAL REQUIREMENTS
ALL SAWN LUMBER SHALL COMPLY WITH THE GRADING REQUIREMENTS OF THE WWPS, WCLIB, SPIB, OR PRE APPROVED EQUIVALENT, AND SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS NOTED IN THE TABLE BELOW.

MATERIAL REQUIREMENTS - SAWN LUMBER				
APPLICATION	SUBCATEGORY	WOOD SPECIES	WOOD GRADE	NOTES
WALL PLATES	TOP PLATES	DOUGLAS FIR-LARCH	#2	---
WALL PLATES	BOTTOM PLATES	DOUGLAS FIR-LARCH	#2	---
STUDS	2x6 OR LARGER	DOUGLAS FIR-LARCH	#2	---

5.2.2. CONSTRUCTION REQUIREMENTS
IN WALL FRAMING, UNLESS NOTED OTHERWISE, PROVIDE DOUBLE STUDS AT ALL JAMBS, CORNERS, INTERSECTIONS AND AT LOCATIONS OF ISOLATED BEARING APPLICATIONS. UNLESS NOTED OTHERWISE, PROVIDE SIMPSON H3 ANCHORS AT EACH WALL STUD TO PLATE CONNECTION (BOTH AT THE TOP AND BOTTOM).

PROVIDE 2" BLOCKING BETWEEN JOISTS AND RAFTERS AT ALL BEARING POINT

5.3. WOOD STRUCTURAL PANELS

5.3.1. REFERENCED STANDARDS
ALL WOOD STRUCTURAL PANELS SHALL MEET THE REQUIREMENTS OF DOC PS 1 "STRUCTURAL PLYWOOD" AND DOC PS 2"PERFORMANCE STANDARD FOR WOOD-BASED STRUCTURAL-USE PANELS."

5.3.2. MATERIAL REQUIREMENTS
ALL PANELS WHICH HAVE ANY EDGE OR SURFACE EXPOSED LONG TERM TO THE WEATHER SHALL BE CLASSED EXTERIOR.ALL WOOD STRUCTURAL PANELS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS NOTED IN THE TABLE BELOW. EACH PANEL SHALL BE MARKED WITH THE APA APPROVED STAMP, INDICATING THE PANEL GRADE, SPAN RATING, BOND CLASSIFICATION, DECIMAL THICKNESS, PRODUCT STANDARD, AND PERFORMANCE CATEGORY.

ALL PANELS THAT HAVE AN EDGE, END, OR SURFACE THAT WILL HAVE LONG TERM EXPOSURE TO WEATHER SHALL BE SUPPLIED WITH THE EXTERIOR BOND CLASSIFICATION. ALL OTHER PANELS ARE TO BE SUPPLIED WITH THE EXPOSURE 1 BOND CLASSIFICATION.

MATERIAL REQUIREMENTS - WOOD STRUCTURAL PANELS				
APPLICATION	PANEL GRADE	MINIMUM NOMINAL PANEL THICKNESS	SPAN RATING	NOTES
ROOF	SHEATHING	15/32"	32/16	---
WALL	SHEATHING	3/8"	24/0	---

5.3.3. CONSTRUCTION REQUIREMENTS
ALL PANELS SHALL BE INSTALLED WITH A SPACING (OR GAP) OF 1/8" AT ALL PANEL ENDS AND EDGES. ALL PANELS ARE TO BE INSTALLED WITH THEIR LONG DIMENSION OR STRENGTH AXIS ACROSS (PERPENDICULAR) TO THE SUPPORTS, WITH THE EXCEPTION OF PANELIZED WOOD ROOFS, WHERE THE PANELS ARE TO BE INSTALLED WITH THEIR LONG DIMENSION OR STRENGTH AXIS ALONG (PARALLEL) TO THE SUPPORTS. ALL PANELS ARE TO BE INSTALLED OVER A MINIMUM OF THREE FRAMING MEMBERS (TWO SPANS MINIMUM). UNLESS NOTED OTHERWISE, ALL PANEL END JOISTS ARE TO BE STAGGERED.

EDGE SUPPORT SHALL BE PROVIDED AT ALL SIDES OF EACH PANEL. THIS IS TO BE ACHIEVED WITH PANEL CLIPS, TONGUE-AND-GROOVE EDGES, OR LUMBER BLOCKING BETWEEN FRAMING MEMBERS. PANEL END JOINTS MUST OCCUR OVER FRAMING MEMBERS.

CONSTRUCTION REQUIREMENTS - WOOD STRUCTURAL PANELS				
APPLICATION	MINIMUM NOMINAL PANEL THICKNESS	NAIL SPACING		MINIMUM NAIL PENETRATION INTO FRAMING
		DIAPHRAGM BOUNDARY AND PANEL EDGES	INTERMEDIATE OR FIELD	
ROOF	15/32"	8d COMMONS AT 6" O.C.	8d COMMONS AT 12" O.C.	1 1/2"
WALL	3/8"	8d COMMONS AT 6" O.C.	8d COMMONS AT 12" O.C.	1 3/8"

5.4.. PREFABRICATED WOOD TRUSSES

5.4.1. REFERENCED STANDARDS - WOOD TRUSSES
ALL WOOD TRUSSES ARE TO BE DESIGNED, MANUFACTURED, AND REVIEWED FOR QUALITY ASSURANCE IN ACCORDANCE WITH THE REQUIREMENTS OF TPI 1, "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION". ALL METAL PLATES USED IN THE INTERCONNECTION OF WOOD TRUSSES SHALL HAVE A VALID AND CURRENT ICC REPORT. ALL WOOD TRUSSES ARE TO BE DELIVERED AND INSTALLED IN ACCORDANCE WITH BCSI 2013 "BUILDING COMPONENT SAFETY INFORMATION - GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING AND BRACING OF METAL PLATE CONNECTED WOOD TRUSSES."

ISSUE RECORD / REVISION:
PURPOSE: DATE:

SEAL:
PETER C. LUNDQUIST
STATE OF WASHINGTON
41393
CIVIL
PROFESSIONAL ENGINEER
08.13.2025

PLANS PREPARED BY:
Technology Associates
SEATTLE MARKET OFFICE
9725 3RD AVENUE NE, STE. 410
SEATTLE, WA 98115

WEST BAKERVIEW - SCHLOSSER - SNOPUD
4822 103RD PL SW MUKILTEO, WA 98275

SHEET NAME:
GENERAL STRUCTURAL NOTES

DATE: 03.07.2025
DRAWN BY: TV
CHECKED BY: MKS
PROJECT NUMBER: SE01458B
SHEET NUMBER: S0.0

5.4.2. WOOD TRUSS ENGINEERING REQUIREMENTS
THE TRUSS MANUFACTURER SHALL PROVIDE ENGINEERED DRAWINGS AND CALCULATIONS FOR EACH TRUSS. THE DRAWINGS AND CALCULATIONS ARE TO BE SIGNED AND SEALED BY A REGISTERED STRUCTURAL ENGINEER IN THE STATE OF WASHINGTON.

5.4.3. GENERAL LOADING CRITERIA
THE WOOD TRUSS ENGINEER MAY USE EITHER THE ASD OR LRFD DESIGN PROCEDURE TO DESIGN THE TRUSSES. THE WOOD TRUSS ENGINEER IS TO DESIGN THE TRUSSES FOR THE DEAD LOADS SHOW IN THE GENERAL STRUCTURAL NOTES, THE LOADS SHOWN IN THE DETAILS, THE LOADS SHOWN ON THE STRUCTURAL PLANS, AND THE LOADS IN DRAWINGS FROM OTHER TRADES (MECHANICAL, PLUMBING, ELECTRICAL & ARCHITECTURAL). ALL OTHER LOADS ARE TO BE DERIVED IN ACCORDANCE WITH THE 2021 IBC.

ALL LOADS SHOWN IN THE STRUCTURAL DRAWINGS ARE SERVICE LEVEL LOADS, WITH THE EXCEPTION OF THE SEISMIC AND WIND LOADS, WHICH ARE AT A STRENGTH LEVEL. THIS IS DONE SO THAT NO MODIFICATIONS NEED TO BE MADE TO THE LOADS BEFORE THEY ARE USED IN EITHER THE ASD OR LRFD LOAD COMBINATIONS OF THE 2021 IBC.

IN ADDITION TO THE LOADS MENTIONED ABOVE, THE WOOD TRUSS ENGINEER IS TO DESIGN THE TRUSSES FOR THE ADD LOADS SHOWN IN THE TABLE BELOW.

TRUSS LOCATION	LOAD TYPE			NOTES
	VERTICAL DEAD LOAD		HORIZONTAL WIND OR SEISMIC TOP CHORD AXIAL LOAD (3)	
	AREA (1)	CONCENTRATED (2)		
ROOFS	5 PSF	---	300 LBS	---

TABLE NOTES:
(1) THE AREA LOADS IN THE CHART ABOVE ARE TO BE APPLIED TO THE FULL TRIBUTARY AREA OF EACH TRUSS.
(2) THE CONCENTRATED LOAD NEED ONLY BE APPLIED AT A SINGLE PANEL POINT (TOP CHORD AND BOTTOM CHORD)AT ANY GIVEN TIME. THE TRUSS IS TO BE DESIGNED TO SUPPORT THIS LOAD IF IT IS APPLIED TO ANY TOP OR BOTTOM CHORD PANEL POINT.
(3) THE HORIZONTAL AXIAL LOAD IS TO BE APPLIED TO PRODUCE BOTH TENSION OR COMPRESSION IN THE TRUSS. THE LOAD IS TO BE APPLIED AT EACH TRUSS BEARING POINT (NOT SIMULTANEOUSLY). ONLY HALF OF THIS LOAD MAY BE USED FOR FUTURE LOADING.

5.4.4. DEFLECTION LIMITATIONS
WOOD TRUSSES ARE TO BE DESIGNED FOR THE FOLLOWING DEFLECTION LIMITATIONS.

DEFLECTION LIMITATIONS - PREFABRICATED WOOD TRUSSES				
TRUSS LOCATION	TRUSS SUPPORT ELEMENTS	DEFLECTION LIMIT		NOTES
		TOTAL LOAD	LIVE LOAD	
ROOF	SUPPORTING PLASTER CEILING	L/240	L/360	---
	SUPPORTING DRYWALL CEILING	L/180	L/240	---
	NO CEILING	L/120	L/180	---

REFER TO THE ARCHITECTURAL DRAWINGS TO DETERMINE FLOOR COVERING TYPE. DEFLECTION CRITICAL FLOOR COVERINGS INCLUDE, BUT ARE NOT LIMITED TO, CERAMIC TILE, MARBLE, AND STONE.

5.4.5. WOOD TRUSSES - MINIMUM MEMBER REQUIREMENTS
AS A MINIMUM, WOOD TRUSS MEMBERS ARE TO BE 1 1/2" WIDE. THE SPECIFIC GRAVITY OF THE TOP CHORD MEMBERS MUST BE EQUAL TO OR GREATER THAN 0.42.

5.5. WOOD CONNECTIONS - NAILS

5.5.1. REFERENCED STANDARDS - NAILS
ALL NAILS MUST BE MANUFACTURED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF ASTM F1667, "STANDARD SPECIFICATION FOR DRIVEN FASTENERS: NAILS, SPIKES, AND STAPLES".

5.5.2. WOOD NAILING SCHEDULE
A WOOD NAILING SCHEDULE IS SHOWN IN THE TYPICAL DETAILS FOR THIS PROJECT. REFER TO THIS SCHEDULE FOR REQUIREMENTS FOR TYPICAL NAILED CONNECTIONS, REQUIRED NAIL DIAMETERS AND LENGTHS, AND NAIL TYPES.

5.5.3. NAIL TYPES
WITHIN THESE DRAWINGS, COMMON, BOX, AND SINKER NAILS MAY ALL BE SPECIFIED. UNLESS NOTED OTHERWISE, ALL NAILS SHALL BE COMMON NAILS. IN NO CASE SHALL THE TYPE OF NAIL BE CHANGED FROM WHAT IS SPECIFIED WITHOUT THE PRIOR APPROVAL OF TECHNOLOGY ASSOCIATES.

5.5.4. INSTALLATION REQUIREMENTS
A NAIL THAT SPLITS THE WOOD WILL NOT TAKE THE DESIGN LOAD. IF SPLITTING OCCURS, THE CONTRACTOR IS TO REPLACE THE MEMBER THAT SPLIT AND PRE-DRILL THE HOLES TO PREVENT THE SPLITTING. DRY WOOD MAY SPLIT EASILY EASILY AND SHOULD BE EVALUATED AS REQUIRED.

TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF APPROXIMATELY 30 DEGREES WITH THE MEMBER AND STARTED APPROXIMATELY 1/3 THE LENGTH OF THE NAIL FROM THE MEMBER END. REQUIRED MINIMUM EDGE DISTANCE, END DISTANCE, AND NAIL SPACING ARE SHOWN IN NDS TABLES 11.5.1A THROUGH 11.5.1D.

6. SHOP DRAWINGS

6.1. GENERAL REQUIREMENTS
TECHNOLOGY ASSOCIATES WILL ONLY REVIEW SHOP DRAWING FOR GENERAL CONFORMANCE WITH THE STRUCTURAL DRAWINGS. THE CONTRACTOR MAY SUBMIT SHOP DRAWINGS FOR REVIEW AT THEIR DISCRETION, UNLESS REQUIRED BY THE AH OR THE PROJECT SPECIFICATIONS. REVIEW OF SHOP DRAWINGS BY TECHNOLOGY ASSOCIATES IS INTENDED AS AN AID ONLY. THE SHOP DRAWINGS DO NOT TAKE THE PLACE OF THE STRUCTURAL DRAWINGS. THE SHOP DRAWINGS SHOULD NOT BE THE SOLE DOCUMENTATION USED BY FIELD PERSONNEL TO CONSTRUCT THE STRUCTURE. TECHNOLOGY ASSOCIATES IS NOT RESPONSIBLE FOR THE OVER ALL ACCURACY OF THE SHOP DRAWINGS.

ALL SHOP DRAWINGS ARE TO BE SUBMITTED ELECTRONICALLY IN PDF FORMAT. NO HARD COPIES WILL BE REVIEWED.

THE CONSTRUCTION DOCUMENTS MAY NOT BE REPRODUCED AS SHOP DRAWINGS AND TECHNOLOGY ASSOCIATES WILL NOT SUPPLY ELECTRONIC BASE FILES TO BE USED AS A STARTING POINT FOR ANY SHOP DRAWINGS.

PRIOR TO SUBMITTING SHOP DRAWINGS TO TECHNOLOGY ASSOCIATES, THE CONTRACTOR IS TO REVIEW, STAMP, INITIAL AND DATE THEM. ANY ITEMS IN CONFLICT SHALL BE FLAGGED BY THE CONTRACTOR FOR REVIEW. ITEMS THAT HAVE CHANGED AND WERE NOT FLAGGED BY THE CONTRACTOR ARE NOT TO BE CONSIDERED OFFICIAL CHANGES TO THE CONTRACT DOCUMENTS. SHOP DRAWINGS NOT REVIEWED PRIOR TO SUBMITTAL WILL BE RETURNED, WITHOUT REVIEW.

ALL ENGINEERING DESIGNS AND CALCULATIONS PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF THE PROFESSIONAL ENGINEER WHO WAS IN RESPONSIBLE CHARGE OF THEIR CREATION. THE PROFESSIONAL ENGINEER SHALL BE REGISTERED WITHIN THE STATE OF TECHNOLOGY ASSOCIATES WITHIN THE AREAS OF CIVIL OR STRUCTURAL ENGINEERING, OR AS REQUIRED BY THE STATE.

6.2. DEFERRED SUBMITTALS
PLANS AND SPECIFICATIONS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE DEVELOPMENT SERVICES DEPARTMENT OF THE AH AFTER BEING REVIEWED FOR CONFORMANCE WITH THE STRUCTURAL DRAWINGS DESIGN BY TECHNOLOGY ASSOCIATES AND THE CONTRACTOR AND PRIOR TO ERECTION, CONSTRUCTION OR INSTALLATION IN THE FIELD. TECHNOLOGY ASSOCIATES WILL PROVIDE A NOTATION ON ALL DEFERRED DOCUMENTS THAT ACKNOWLEDGES REVIEW OF SUCH DOCUMENTS. A SEPARATE PERMIT FOR THE INSTALLATION OF A DEFERRED ITEM SHALL NOT BE REQUIRED UNLESS SPECIFIED

ALLOWABLE STRUCTURAL ELEMENTS SUBMITTED AS DEFERRED SUBMITTALS		
	ITEM	NOTES
1	PREFABRICATED WOOD TRUSSES	---

7. SPECIAL STRUCTURAL INSPECTION (SSI)

7.1. GENERAL REQUIREMENTS
THE CONTRACTOR IS ENCOURAGED TO SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH ALL SUBCONTRACTORS, AND TECHNOLOGY ASSOCIATES TO REVIEW THE SSI REQUIREMENTS AND PROCEDURES FOR THIS PROJECT.

SPECIAL STRUCTURAL INSPECTIONS ARE TO BE SCHEDULED A MINIMUM OF 24 HOURS IN ADVANCE. TO SCHEDULE AN SSI, CONTACT THIRD PARTY .

ALL SPECIAL INSPECTIONS ARE TO BE COMPLETED UNDER THE SUPERVISION OF A REGISTERED CIVIL OR STRUCTURAL ENGINEER WITHIN THE STATE OF WASHINGTON. AS A MINIMUM, ALL SPECIAL STRUCTURAL INSPECTORS SHALL BE EITHER ICC CERTIFIED IN THE AREA OF THE INSPECTION, OR SHALL HAVE AN EIT CERTIFICATION WITHIN THE STATE OF TECHNOLOGY ASSOCIATES. THE QUALIFICATIONS FOR THE SPECIAL INSPECTORS SHALL BE REVIEWED AND APPROVED BY TECHNOLOGY ASSOCIATES PRIOR TO CONSTRUCTION.

SPECIAL STRUCTURAL INSPECTIONS DO NOT TAKE THE PLACE OF ANY OTHER INSPECTIONS REQUIRED BY THE AHJ, AND/OR BY CHAPTER 1 OF THE 2021 IBC.

7.2. REQUIREMENTS OF THE SPECIAL STRUCTURAL INSPECTOR
THE SPECIAL STRUCTURAL INSPECTOR SHALL OBSERVE ALL WORK REQUIRING SSI FOR COMPLIANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. THE INSPECTOR SHALL FURNISH REPORTS FOR EACH INSPECTION TO THE CONTRACTOR, ARCHITECT, OWNER, AND AHJ. ALL REPORTS SHALL BE SUBMITTED NO MORE THAN 24 HOURS AFTER THE INSPECTION.

TECHNOLOGY ASSOCIATES SHALL BE IMMEDIATELY NOTIFIED OF ALL DISCREPANCIES AND DEVIATIONS FOUND DURING THE INSPECTION.

7.3. ITEMS AND MATERIALS REQUIRING SPECIAL STRUCTURAL INSPECTION
ALL SPECIAL STRUCTURAL INSPECTION IS TO BE PREFORMED IN ACCORDANCE WITH THE PROVISIONS OF IBC, CHAPTER 17, AND THE REQUIREMENTS OF THE AHJ. THE FOLLOWING ITEMS AND MATERIALS REQUIRE SPECIAL STRUCTURAL INSPECTION.

THE FREQUENCY OF THE SPECIAL STRUCTURAL INSPECTIONS ARE CLASSIFIED AS EITHER CONTINUOUS OR PERIODIC. CONTINUOUS INSPECTIONS REQUIRE THE FULL-TIME OBSERVATION OF WORK, WHILE PERIODIC INSPECTIONS REQUIRE PART-TIME, OR INTERMITTENT OBSERVATION OF WORK. TO FURTHER CLARIFY PERIODIC, A PERCENTAGE IS SHOWN NEXT TO EACH INSPECTION ITEM. THIS PERCENTAGE REPRESENTS THE REQUIRED PERCENTAGE OF THE WORK THAT NEEDS TO BE OBSERVED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THIS MINIMUM PERCENTAGE IS MET OR EXCEEDED.

ONLY ITEMS REQUIRING SPECIAL STRUCTURAL INSPECTION HAVE BEEN LISTED HEREIN. OTHER INSPECTIONS, INCLUDING, BUT NOT LIMITED TO, GEOTECHNICAL INSPECTIONS, FIRE RELATED INSPECTIONS, MECHANICAL, PLUMBING, AND ELECTRICAL INSPECTIONS ARE TO BE PREFORMED BY OTHERS.

CONCRETE CONSTRUCTION (2021 IBC TABLE 1705.3 & 1705.12.1)			
FIRM	VERIFICATION AND INSPECTIONS	FREQUENCY	NOTES
THIRD PARTY	REINFORCING STEEL AND TENDONS	50%	VERIFY PRIOR TO PLACING CONCRETE THAT REINFORCING IS OF SPECIFIED TYPE, GRADE AND SIZE; THAT IT OS FREE OF OIL, DIRT AND RUST; THAT IT IS LOCATED AND SPACED PROPERLY; THAT HOOKS, BENDS, TIES, STIRRUPS AND SUPPLEMENTAL REINFORCEMENT ARE PLACED CORRECTLY; THAT LAP LENGTHS, STAGGERS AND OFFSETS ARE PROVIDED; AND THAT ALL MECHANICAL CONNECTIONS ARE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS AND/OR EVALUATION REPORTS.
THIRD PARTY	CAST-IN-PLACE BOLTS, RODS AND EMBEDMENT	50%	INSPECTION OF ANCHORS OR EMBEDMENT CAST IN CONCRETE
THIRD PARTY	PLACEMENT OF CONCRETE	100%	INSPECT PLACEMENT PROCEDURES INCLUDING CONSOLIDATION, MAINTENANCE OF REINFORCING LOCATION, AND MAINTENANCE OF ALL CLEAR DISTANCES

SPECIAL CASES			
FIRM	VERIFICATION AND INSPECTIONS	FREQUENCY	NOTES
THIRD PARTY	POST INSTALLED ANCHORS	100%	CONTINUOUS INSPECTION OF HOLE DIAMETER, SIZE, SPACING, AND CLEANLINESS PER MANUFACTURER. CONTINUOUS INSPECTION OF SIZE, LENGTH, AND SPACING OF ANCHORS. CONTINUOUS INSPECTION OF INSTALLATION OF EPOXY ADHESIVE ANCHORS, EXPANSION ANCHORS, AND SCREW ANCHORS.

TAG LEGEND	
WF1	WALL FOOTING - SEE SCHEDULE THIS SHEET.
H1	WOOD HEADER - SEE SCHEDULE THIS SHEET.
1A / 10'-0"	SHEAR WALL - SEE SCHEDULE THIS SHEET.
△	SHEAR WALL HOLDOWN - SEE SCHEDULE THIS SHEET.

ISSUE RECORD / REVISION:

PURPOSE:	DATE:

SEAL:

PETER C. LUNDQUIST — STATE OF WASHINGTON — 41393 — CIVIL — PROFESSIONAL ENGINEER

08.13.2025

PLANS PREPARED BY:

Technology Associates

SEATTLE MARKET OFFICE
9725 3RD AVENUE NE, STE. 410
SEATTLE, WA 98115

WEST BAKERVIEW - SCHLOSSER - SNOPUD

4822 103RD PL SW MUKILTEO, WA 98275

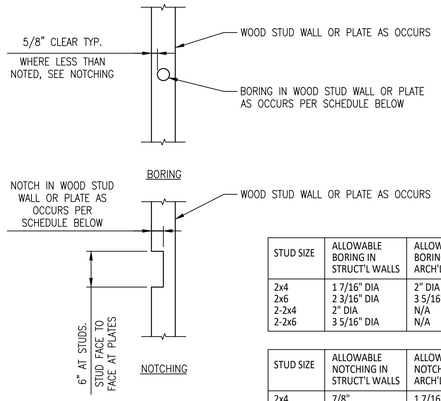
SHEET NAME:

GENERAL STRUCTURAL NOTES

DATE: 03.07.2025
DRAWN BY: TV
CHECKED BY: MKS

PROJECT NUMBER: SE01458B

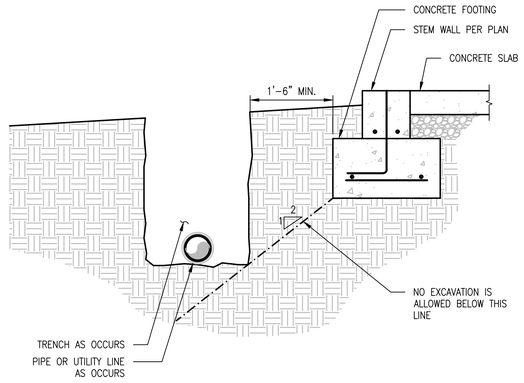
SHEET NUMBER: S0.1



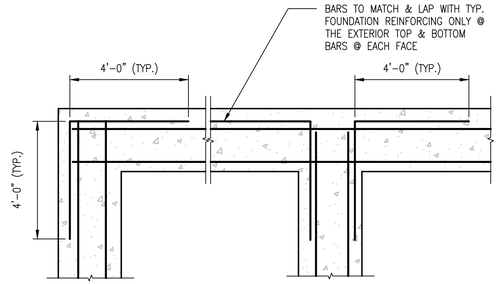
STUD SIZE	ALLOWABLE BORING IN STRUCT'L WALLS	ALLOWABLE BORING IN ARCH'L WALLS
2x4	1 7/16" DIA	2" DIA
2x6	2 3/16" DIA	3 5/16" DIA
2-2x4	2" DIA	N/A
2-2x6	3 5/16" DIA	N/A

STUD SIZE	ALLOWABLE NOTCHING IN STRUCT'L WALLS	ALLOWABLE NOTCHING IN ARCH'L WALLS
2x4	7/8"	1 7/16"
2x6	1 3/8"	2 3/16"

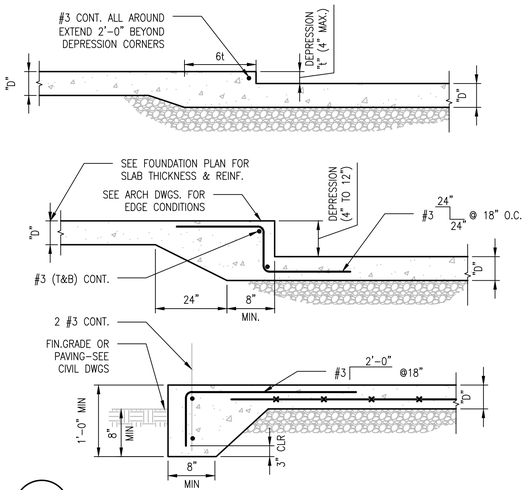
08 / S1.0 BORING AND NOTCHING OF WOOD STUD WALL OR PLATE
NOT TO SCALE



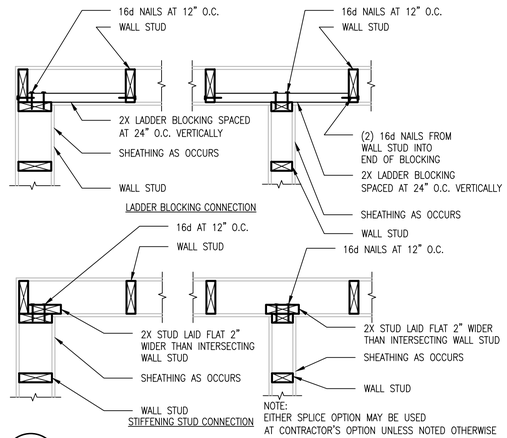
05 / S1.0 TRENCH ADJACENT TO FOOTING
NOT TO SCALE



04 / S1.0 EDGE CONTINUOUS FOOTING REINF. AT CORNERS AND INTERSECTIONS
NOT TO SCALE



01 / S1.0 MISC. SLAB ON GRADE DETAILS
NOT TO SCALE



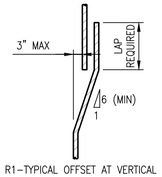
09 / S1.0 PLAN - TYPICAL INTERSECTING WOOD WALL FRAMING
NOT TO SCALE

BAR SIZE	TENSION SPLICE LENGTHS f'c=2500psi		f'c=3000psi		f'c=3500psi		f'c=4000psi	
	Std	Top	Std	Top	Std	Top	Std	Top
#3	16"*	21"*	14"	19"	13"	17"	12"	16"
#4	21" *	27"*	19"	25"	18"	23"	16"	21"
#5	39"	51"	36"	46"	33"	43"	31"	40"
#6	47"	61"	43"	56"	40"	51"	37"	48"
#7	69"	89"	62"	81"	58"	75"	54"	70"
#8	79"	102"	71"	93"	66"	86"	62"	80"
#9	89"	115"	80"	104"	74"	97"	70"	90"
#10	99"	129"	90"	118"	84"	109"	78"	102"
#11	110"	143"	100"	131"	93"	121"	87"	113"

BAR SIZE	COMPRESSION SPLICE LENGTHS f'c<3000psi		f's>3000psi	
	Std	Top	Std	Top
#3	12"	12"	12"	12"
#4	13"	12"	12"	12"
#5	25"	19"	19"	14"
#6	30"	23"	23"	17"
#7	35"	26"	99"	20"
#8	40"	30"	30"	23"
#9	45"	34"	34"	25"
#10	51"	38"	38"	29"
#11	56"	42"	42"	32"

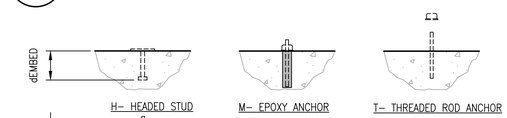
NOTES:
1. ALL BARS #5 AND LARGER SHALL HAVE FY=60KSI AND ALL BARS SMALLER THAN #5 SHALL HAVE FY=40KSI
2. THESE TABLES ARE BASED ON NORMAL WEIGHT CONCRETE.
3. THE STRUCTURAL ENGINEER IS TO BE NOTIFIED IF THE CLEAR SPACING OF THE REINFORCEMENT IS LESS THAN OR EQUAL TO 2 BAR DIAMETERS OR IF THE CLEAR COVER IS LESS THAN ONE BAR DIAMETER.
4. TENSION SPLICES SHALL BE CLASS B PER THE LATEST EDITION OF ACI 318(UNO).
5. TOP BARS ARE ANY HORIZONTAL BARS PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE DEVELOPMENT LENGTH OF THE SPLICE.
6. ENCLOSED BARS ARE ANY VERTICAL BARS ENCLOSED WITHIN SPIRAL REINFORCEMENT NOT LESS THAN #2 AND LESS THAN 4" PITCH OR WITHIN #4 TIES SPACED LESS THAN 4" ON CENTER.

"*" – #3 AND #4 REBAR STRENGTH SHALL BE 40KSI



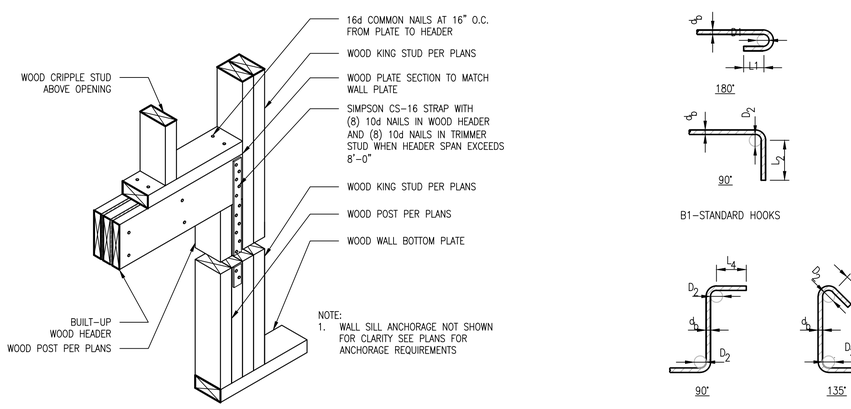
R1–TYPICAL OFFSET AT VERTICAL COLUMN REINFORCEMENT (DIFFERENT COLUMN SIZES)

06 / S1.0 CONCRETE LAP SPLICE SCHEDULE - NORMAL WEIGHT CONCRETE
NOT TO SCALE

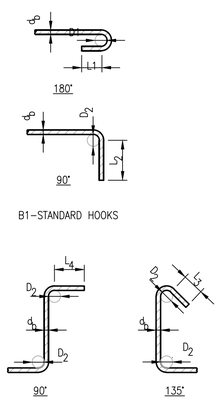


NOTES:
C.J. DENOTES CONSTRUCTION JOINTS (TYPE I). CONTRACTOR SHALL SEPARATE EACH DAY POURS JOINT (TYPE I)
C.T.J. DENOTES SAW-CUT JOINTS (TYPE II) WHICH SHALL BE AT BALANCE OF LOCATIONS MAXIMUM C.J. CONSTRUCTION JOINT OR C.T.J. SAW-CUT JOINT SHALL BE SPACED 15' EA. WAY

02 / S1.0 CONTROL JOINT
NOT TO SCALE



10 / S1.0 BUILT-UP WOOD HEADER AT WALL OPENING (WITHOUT SILL)
NOT TO SCALE



B1- STANDARD HOOK REINFORCING BAR BEND DIMENSIONS				
BAR SIZE	BAR DIAMETER (d_b)	D_1	L_1 ($4d_b$, 2 1/2" MIN)	L_2 ($12d_b$)
#3	0.375"	0'-2 1/4"	0'-2 1/2"	0'-4 1/2"
#4	0.500"	0'-3"	0'-2 1/2"	0'-6"
#5	0.625"	0'-3 3/4"	0'-2 1/2"	0'-7 1/4"
#6	0.750"	0'-4 1/2"	0'-3"	0'-9"
#7	0.875"	0'-5 1/4"	0'-3 1/2"	0'-10 1/2"
#8	1.000"	0'-6"	0'-4"	1'-0"
#9	1.128"	0'-9 1/2"	0'-4 1/2"	1'-11/2"
#10	1.270"	0'-10 3/4"	0'-5"	1'-3 1/4"
#11	1.410"	1'-0"	0'-5 3/4"	1'-5"
#14	1.693"	1'-6 1/4"	0'-6 3/4"	1'-8 1/4"
#18	2.257"	2'-0"	0'-9"	2'-3"

B2- STIRRUP & TIE HOOK REINFORCING BAR BEND DIMENSIONS			
BAR SIZE	D_2	L_3 ($6d_b$, 3"MIN)	L_4 ($6d_b$<=#5) ($12d_b$>#6)
#3	0'-1 1/2"	0'-3"	0'-2 1/4"
#4	0'-2"	0'-3"	0'-3"
#5	0'-2 1/2"	0'-3 3/4"	0'-3 3/4"
#6	0'-4 1/2"	0'-4 1/2"	0'-9"
#7	0'-5 1/4"	0'-5 1/4"	0'-10 1/2"
#8	0'-6"	0'-6"	1'-0"

07 / S1.0 TYPICAL BENDS AT REINFORCING BAR
NOT TO SCALE

TYPICAL ANCHOR EMBEDMENT SCHEDULE		
BOLT DIAMETER	EMBEDMENT LENGTH (dEMBED)	
	HORIZONTAL APPLICATIONS	VERTICAL APPLICATIONS
1/2"	4"	6"
5/8"	4 1/2"	6 1/2"
3/4"	5"	7"
7/8"	6"	8"
1"	7"	9"
1 1/8"	9"	11"

NOTE:
1. HEADED ANCHOR STUDS (NELSON STUDS) OR APPROVED EQUIVALENT ARE TO BE USED IN THE FABRICATION OF EMBEDMENT (EMBED) PLATES.
2. HEADED ANCHOR STUDS ARE TO BE AUTOMATICALLY WELDED TO EMBED PLATE PER AWS REQUIREMENTS.
3. ALL EXPANSION BOLTS AND EPOXY BOLTS ARE TO BE ICC APPROVED IN ACCORDANCE WITH THE GSN FOR MASONRY OR CONCRETE, DEPENDING ON THE MATERIAL TYPE.
4. WHERE A COLD JOINT IN THE CONCRETE EXISTS WITHIN THE LENGTH OF THE ANCHOR, THE EMBEDMENT DEPTH IS TO BE MEASURED IN THE PORTION OF THE ANCHOR BEYOND THE COLD JOINT.
5. THE EXPOSED END OF THE ANCHOR SHALL, AT A MINIMUM, BE FLUSH WITH THE TIGHTENED NUT.

03 / S1.0 TYPICAL ANCHOR EMBEDMENT SCHEDULE
NOT TO SCALE

ISSUE RECORD / REVISION:

PURPOSE:	DATE:

SEAL:

PLANS PREPARED BY:

Technology Associates

SEATTLE MARKET OFFICE
9725 3RD AVENUE NE, STE. 410
SEATTLE, WA 98115

WEST BAKERVIEW - SCHLOSSER - SNOPUD

4822 103RD PL SW MUKILTEO, WA 98275

SHEET NAME:

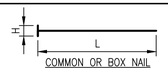
TYPICAL DETAILS

DATE: 03.07.2025
DRAWN BY: TV
CHECKED BY: MKS

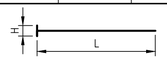
PROJECT NUMBER: SE01458B

SHEET NUMBER: S1.0

WOOD NAILING SCHEDULE			
DESCRIPTION OF BUILDING ELEMENT	NUMBER, TYPE, & SPACING OF NAILS		LOCATION
	COMMON NAILS	BOX NAILS	
ROOF			
BLOCKING BETWEEN CEILING RAFTERS OR RAFTERS TO TOP PLATE	(3) 16d	(3) 16d	AT EACH END, TOENAIL
CEILING RAFTER TO TOP PLATE	(3) 16d	(3) 16d	PER RAFTER, TOENAIL
CEILING RAFTER NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS (NO THRUST)	(3) 16d	(4) 10d	FACE NAIL
COLLAR TIE TO RAFTER	(3) 10d	(4) 10d	FACE NAIL
RAFTER OR ROOF TRUSS TO TOP PLATE	(3) 16d	(3) 16d	TOENAIL
ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS OR ROOF RAFTERS TO 2 INCH RIDGE BEAM	(2) 16d	(3) 10d	END NAIL
	(3) 16d	(3) 16d	TOENAIL
WALLS			
STUD TO STUD (NOT AT SHEAR WALLS)	16d@24"O.C.	16d@24"O.C.	FACE NAIL
STUD TO STUD AND ABUTTING STUD AT INTERSECTING WALLS (AT SHEAR WALLS)	16d@16"O.C.	16d@12"O.C.	FACE NAIL
BUILT-UP HEADER (2-INCH TO 2 INCH HEADER)	16d@16"O.C.	16d@12"O.C.	EACH EDGE, FACE NAIL
CONTINUOUS HEADER TO STUD	(4) 16d	(4) 16d	TOENAIL
TOP PLATE TO TOP PLATE	16d@16"O.C.	10d@12"O.C.	FACE NAIL
TOP PLATE TO TOP PLATE AT END JOINTS	(8) 16d	(12) 10d	FACE NAIL ON EACH SIDE OF END JOINTS (MINIMUM 24" LAP SPLICES LENGTH EACH SIDE OF END RAFTER)
BOTTOM PLATE TO RAFTER, RIM RAFTER BAND RAFTER OR BLOCKING (NOT AT SHEAR WALLS)	16d@16"O.C.	16d@12"O.C.	FACE NAIL
BOTTOM PLATE TO RAFTER, RIM RAFTER BAND RAFTER OR BLOCKING AT SHEAR WALLS	(2)16d@16"O.C.	(3) 16d@16"O.C.	FACE NAIL
STUD TO BOTTOM PLATE (USE EITHER OPTION)	(4) 16d	(4) 16d	TOENAIL
	OR: (2) 16d	OR: (3) 10d	END NAIL
TOP OR BOTTOM PLATE TO STUD	(2) 16d	(3) 10d	END NAIL
TOP PLATES. LAP AT CORNERS AND INTERSECTIONS	(2) 16d	(3) 10d	FACE NAIL



COMMON OR BOX NAIL

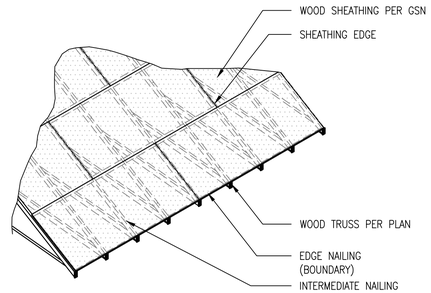


STANDARD COMMON BOX SINKER STEEL WIRES NAILS							
TYPE		PENNYWEIGHT					
		6d	8d	10d	12d	16d	20d
COMMON	L	2"	2" 1/2"	3"	3 1/4"	3 1/2"	4"
	D	0.113"	0.131"	0.148"	0.148"	0.162"	0.192"
	H	0.266"	0.281"	0.312"	0.312"	0.344"	0.406"
BOX	L	2"	2" 1/2"	3"	3 1/4"	3 1/2"	4"
	D	0.099"	0.113"	0.128"	0.128"	0.135"	0.148"
	H	0.266"	0.297"	0.312"	0.312"	0.344"	0.375"
SINKER	L	1 7/8"	2" 3/8"	3"	3 1/4"	3 1/2"	4"
	D	0.092"	0.113"	0.12"	0.135"	0.148"	0.177"
	H	0.234"	0.266"	0.281"	0.312"	0.344"	0.375"

NOTES:
1. THIS IS AN ABRIDGED VERSION OF THE NAILING SCHEDULE PRESENTED IN IBC TABLE 2304.10.1. REFER TO THE IBC TABLE FOR ADDITIONAL REQUIREMENTS NOT SHOWN HERE
2. REFER TO ASTM F1667 FOR NAIL DIMENSIONAL TOLERANCES.
3. POWER-DRIVEN NAILS MAY BE USED AT CONTRACTOR'S OPTION AND SHALL BE PER ICC ESR-1539 THE MINIMUM DIMENSIONS SHOWN HERE MUST BE MAINTAINED

17 / S1.1 WOOD NAILING SCHEDULE

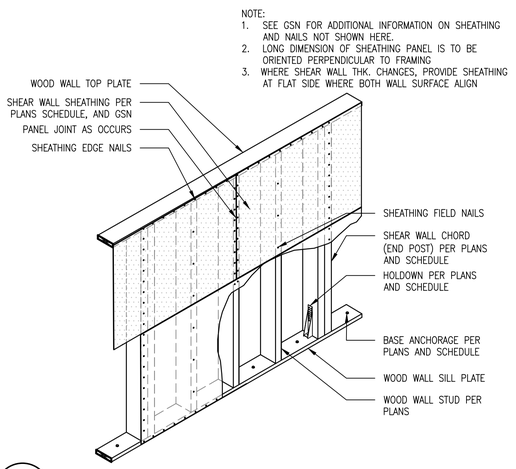
NOT TO SCALE



NOTE:
1. SEE GSN FOR ADDITIONAL INFORMATION ON SHEATHING NAILING NOT SHOWN HERE.
2. SHEATHING IS TO BE STAGGERED AS SHOWN
3. LONG DIMENSION OF SHEATHING PANEL IS TO BE ORIENTED PERPENDICULAR TO FRAMING

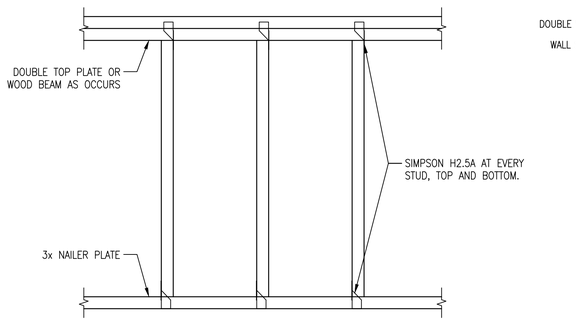
14 / S1.1 WOOD SHEATHING AT PRE-ENGINEERED WOOD TRUSSES (UNBLOCKED)

NOT TO SCALE



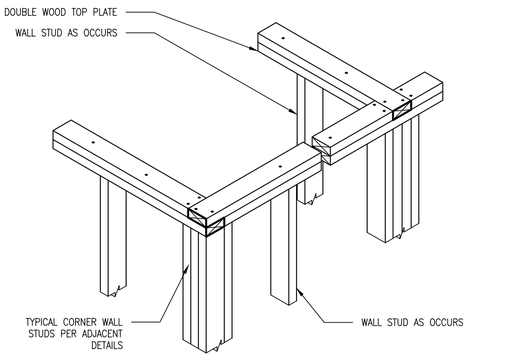
11 / S1.1 WOOD SHEAR WALL CONSTRUCTION

NOT TO SCALE



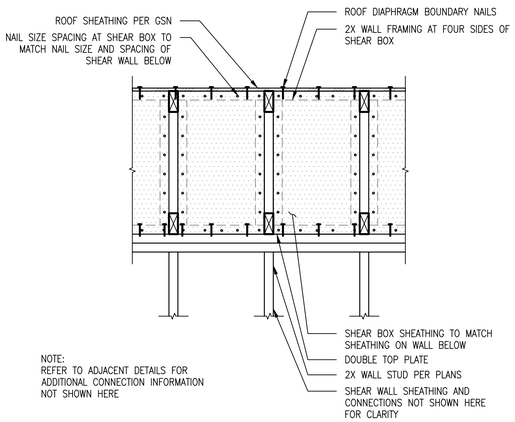
15 / S1.1 TYPICAL WOOD STUD WALL

NOT TO SCALE



12 / S1.1 TYPICAL DOUBLE TOP PLATE AT INTERSECTING WOOD WALLS

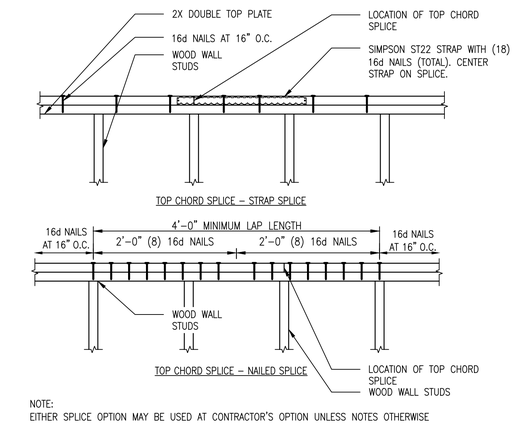
SCALE: 1" = 1'-0"



NOTE:
REFER TO ADJACENT DETAILS FOR ADDITIONAL CONNECTION INFORMATION NOT SHOWN HERE

16 / S1.1 PLYWOOD SHEAR PANEL

NOT TO SCALE



NOTE:
EITHER SPLICE OPTION MAY BE USED AT CONTRACTOR'S OPTION UNLESS NOTES OTHERWISE

13 / S1.1 TYPICAL WOOD TOP CHORD SPLICE

NOT TO SCALE

ISSUE RECORD / REVISION:

PURPOSE:	DATE:

SEAL:

PLANS PREPARED BY:

Technology Associates

SEATTLE MARKET OFFICE
9725 3RD AVENUE NE, STE. 410
SEATTLE, WA 98115

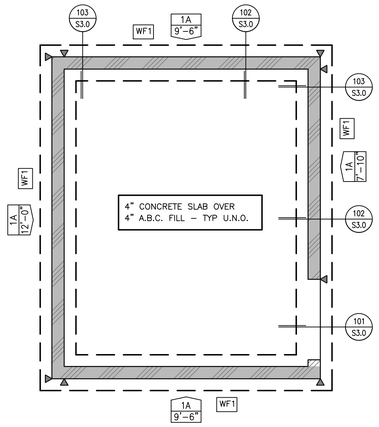
WEST BAKERVIEW - SCHLOSSER - SNOPUD

4822 103RD PL SW MUKILTEO, WA 98275

SHEET NAME:

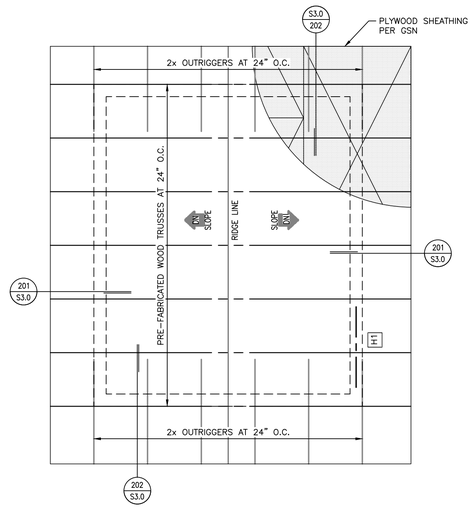
TYPICAL DETAILS

DATE:	03.07.2025
DRAWN BY:	TV
CHECKED BY:	MKS
PROJECT NUMBER:	SE01458B
SHEET NUMBER:	S1.1



FOUNDATION PLAN

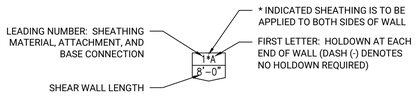
SCALE: 3/8" = 1'-0"



ROOF FRAMING PLAN

SCALE: 3/8" = 1'-0"

WOOD STUD SHEAR WALL ( ) SCHEDULE



SHEAR WALL TAG KEY

NOTES:
1. FOR ADDITIONAL INFORMATION, SEE DETAILS 103/S3.0,
2. ▲- WHERE SHOWN ON PLANS INDICATED HOLDOWN PER SCHEDULE BELOW.

SHEATHING AND BASE CONNECTION REQUIREMENTS

TAG	SHEATHING MATERIAL	SHEATHING ATTACH.		SILL PLATE ATTACHMENT AT	
		EDGE	FIELD	FOUNDATIONS (4)(5)	UPPER FLOORS
1	3/8" UNBLOCKED	8d AT 6" O.C.	8d AT 12" O.C.	1/2" ANCHOR BOLT AT 32" O.C.	---

HOLDOWN REQUIREMENTS

TAG	MODEL	FASTENERS	ANCHOR BOLTS	MINIMUM POST REQUIREMENTS	REFERENCED DETAIL
A	LSTHD8	(20) 0.148x3 1/4	8" EMBED (CAST-IN PLACE)	(2) 2xWIDTH OF WALL	SEE DETAIL 103/S3.0

NOTES:
(1) VALUES ARE FOR SHEATHING ON ONE SIDE DOUG FIR FRAMED WALLS. DOUBLE VALUE IF SHEATHING ON BOTH SIDES.
FOR SHEAR WALLS WITH SHEATHING APPLIED TO BOTH SIDES, SILL PLATE ATTACHMENT SPACING SHALL BE HALF THE SPACING SHOWN.
(2) FRAMING AT ADJOINING PANEL EDGES SHALL BE 3" NOMINAL OR WIDER AND NAILS SHALL BE STAGGERED.
(3) WHERE PLYWOOD IS APPLIED ON BOTH FACES OF WALL AND NAIL SPACING IS LESS THAN 6" O.C., PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS, OR FRAMING SHALL BE 3 INCH NOMINAL OR THICKER AND NAILS ON EACH SIDE SHALL BE STAGGERED.
(4) SHOT PIN OPTION NOT ALLOWABLE AT EXTERIOR WALLS. SHOT PINS SHALL BE HILTI X-U INSTALLED WITH WASHERS AND 1" EMBEDMENT PER ESR- 2269.
(5) CAST-IN-PLACE ANCHOR BOLTS MAY BE REPLACED WITH 1/2" DIA EXPANSION BOLTS AT SAME SPACING AT INTERIOR WALLS ONLY. EXPANSION BOLTS SHALL BE HILTI KWIK BOLT 3 WITH 4" EMBED - ESR #2302
(6) STAGGER NAILS IN SILL PLATE.

SHEAR WALL NOTES:
1. STUD SPACING IN ALL SHEAR WALLS SHALL NOT EXCEED 16" O.C.
2. ALL PANEL EDGES SHALL BE BACKED WITH MINIMUM 2 INCH NOMINAL FRAMING.
3. BLOCKING SHALL BE PROVIDED NEAR MID-HEIGHT OF WALL AT SHEATHING JOINT.
4. SPACING APPLIES TO NAILING AT ALL STUDS, TOP AND BOTTOM PLATES AND BLOCKING.
5. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL (FINISHED SURFACE) WALL COVERINGS NOT NOTED.
6. TYPE X DRYWALL SHALL BE PROVIDED WHERE INDICATED ON ARCHITECTURAL DWGS.
7. FOR EXTERIOR SHEAR WALLS USING DRYWALL, USE EXTERIOR TYPE DRYWALL PER PER ARCHITECTURAL DRAWINGS.
8. "ANCHOR BOLT SHALL HAVE A STEEL PLATE WASHER UNDER EACH NUT NOT LESS THAN 0.229"X3"X3" IN SIZE. THE PLATE WASHER SHALL EXTEND WITHIN 1/2" OF EDGE OF BOTTOM PLATE ON THE SIDE(S) WITH SHEATHING OR OTHER MATERIAL PER 2015 SDPWS 4.3.6.4.3".
9. GYPSUM SHEATHING SHALL CONFORM TO ASTM C 1396 AND SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C 840.
10. GYPSUM WALLBOARD TO BE APPLIED HORIZONTALLY OR VERTICALLY. END JOINTS OF ADJACENT COURSES OF GYPSUM WALLBOARD INSTALLED WITH THE LONG DIMENSION PERPENDICULAR TO FRAMING, SHALL BE STAGGERED. GYPSUM SHEATHING TO GO OVER SILL PLATES AND DOUBLE TOP PLATES COMPLETELY

FOUNDATION NOTES - TYP U.N.O.

1. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS. BUILDING DIMENSIONS AND ELEVATIONS, WHERE SHOWN, WERE PROVIDED BY THE ARCHITECT AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND COORDINATE ALL DIMENSIONS PRIOR TO PROCEEDING WITH THE WORK. ANY DISCREPANCIES SHALL BE RESOLVED THROUGH THE ARCHITECT.
2. SCHEDULED TAG DESIGNATIONS ARE TYPICAL TO THE PROJECT AND MAY NOT NECESSARILY BE FOUND ON THIS PLAN.
3. UNLESS NOTED OTHERWISE ON PLANS AND/OR DETAILS, DEPTH OF FOOTING DIMENSIONS INDICATED IN THE G.S.N. ARE MINIMUMS. FOUNDATION CONTRACTOR SHALL COORDINATE WITH SOIL REPORT AND ALL TRADES TO INSURE THAT THESE MINIMUMS ARE SUFFICIENT FOR THE WORK. SEE TYPICAL DETAILS FOR ADDITIONAL REQUIREMENTS.
4. BUILDING CONCRETE SLAB ON GRADE SHALL BE AS NOTED ON PLAN. VERIFY EXACT SIZE AND LOCATION OF DEPRESSED AND/OR RAISED SLABS WITH ARCHITECTURAL DRAWINGS. FOR SIDEWALK LOCATION, SEE ARCHITECTURAL DRAWINGS. FOR ADDITIONAL INFORMATION, SEE G.S.N. AND TYPICAL DETAILS.

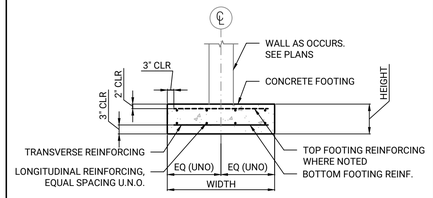
ROOF FRAMING NOTES - TYP U.N.O.

1. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS. BUILDING DIMENSIONS AND ELEVATIONS, WHERE SHOWN, WERE PROVIDED BY THE ARCHITECT AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND COORDINATE ALL DIMENSIONS PRIOR TO PROCEEDING WITH THE WORK. ANY DISCREPANCIES SHALL BE RESOLVED THROUGH THE ARCHITECT.
2. SCHEDULED TAG DESIGNATIONS ARE TYPICAL TO THE PROJECT AND MAY NOT NECESSARILY BE FOUND ON THIS PLAN.
3. FOR CLARITY, DETAILS MAY SHOW ONLY ONE SIDE OF FRAMING CONDITIONS. ALL OPENINGS MAY NOT BE SHOWN ON THIS PLAN. FOR EXACT SIZE, NUMBER AND LOCATION OF OPENINGS, SEE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, SPRINKLER AND THEIR RELATED DRAWINGS. FOR FRAMING AT OPENINGS, SEE TYPICAL DETAILS.

WALL TYPE LEGEND

	WOOD STUD WALL - 2 x WIDTH OF WOOD STUD WALL WITH STUDS SPACED AT 16" O.C. FOR HEADERS IN WOOD STUD WALLS, SEE SCHEDULE - TYPICAL U.N.O. SEE G.S.N., PLANS, AND DETAILS FOR ADDITIONAL INFORMATION. WALLS ONLY SHOW HATCHING WHEN CONTINUOUS TO LEVEL ABOVE.
	WOOD STUD SHEAR WALL - SEE WOOD STUD SHEAR WALL SCHEDULE THIS SHEET. WALLS ONLY SHOW HATCHING WHEN CONTINUOUS TO LEVEL ABOVE.
	STRUCTURAL BEARING AND / OR SHEAR WALL BELOW

WALL FOOTING (WF) SCHEDULE



TAG	DIMENSIONS		FOOTING REINFORCING		REMARKS
	HEIGHT	WIDTH	LONGITUDINAL	TRANSVERSE	
WFI	1'-0"	1'-4"	2 #5 AT BOTTOM	---	---

NOTES:
1. FOOTING REINFORCING SHALL BE PLACED AT THE BOTTOM (3" CLR) OF THE FOOTING U.N.O.
2. FOOTING SHALL BE EXTENDED 12" MINIMUM BEYOND WALL ENDS, U.N.O.
3. REFER TO GSN FOR FOUNDATION DEPTH REQUIREMENTS. DEPTH SHOWN IS A MINIMUM. CONTRACTOR SHALL COORDINATE FOOTING DEPTH WITH REQUIREMENTS FROM OTHER TRADES.
4. COLUMN IS TO BE CENTERED ON FOOTING, U.N.O.

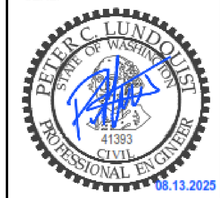
HEADER (H) SCHEDULE

TAG	SIZE	JAMB STUDS	KING STUDS	REMARKS
H1	(2)2x6	2x6	2x6	·

ISSUE RECORD / REVISION:

PURPOSE:	DATE:

SEAL:



PLANS PREPARED BY:

Technology Associates

SEATTLE MARKET OFFICE
9725 3RD AVENUE NE, STE. 410
SEATTLE, WA 98115

WEST BAKERVIEW - SCHLOSSER - SNOPUD

4822 103RD PL SW MUKILTEO, WA 98275

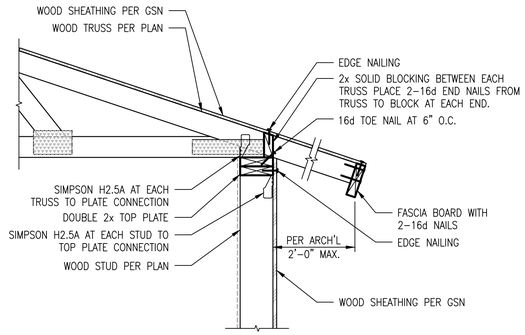
SHEET NAME:

FOUNDATION AND ROOF FRAMING PLAN

DATE: 03.07.2025
DRAWN BY: TV
CHECKED BY: MKS

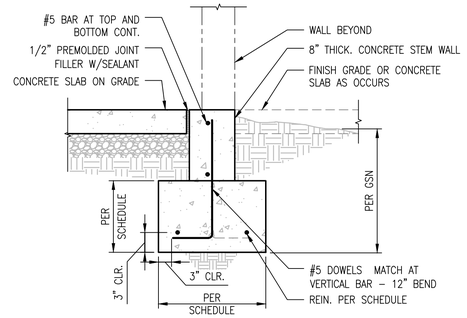
PROJECT NUMBER: SE01458B

SHEET NUMBER: S2.0



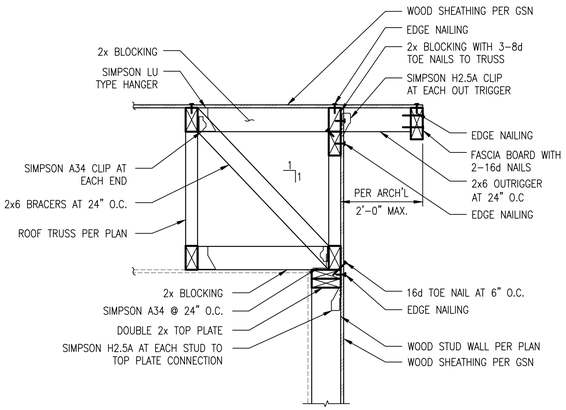
201 S3.0 WOOD TRUSS AT WOOD STUD WALL (PERPENDICULAR)

NOT TO SCALE



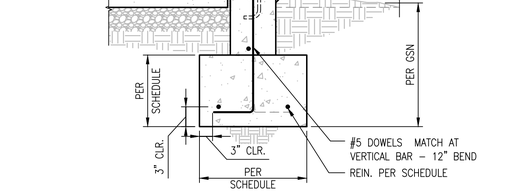
101 S3.0 EXTERIOR WALL FOOTING AT OPENING

NOT TO SCALE



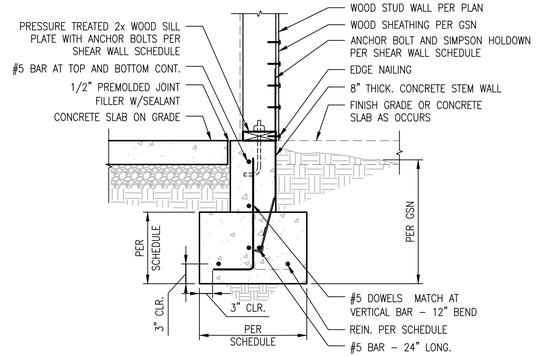
202 S3.0 WOOD TRUSS AT WOOD STUD WALL (PARALLEL)

NOT TO SCALE



102 S3.0 WOOD STUD WALL AT CONCRETE FOOTING

NOT TO SCALE



NOTE:
A. HOLDOWN ANCHOR IS TO BE FULLY INSTALLED IN THE CONCRETE STEM WALL AS SHOWN. CONCRETE FOOTING MAY NEED TO BE LOCALLY SET LOWER THAT ADJACENT FOOTING TO ALLOW FOR FULL ANCHOR LENGTH TO BE INSTALLED IN THE STEM WITH THE CLEARANCES SHOWN

103 S3.0 SHEARWALL HOLDOWN AT CONCRETE FOOTING

NOT TO SCALE

ISSUE RECORD / REVISION:

PURPOSE:	DATE:

SEAL:

PETER C. LUNDQUIST — STATE OF WASHINGTON — 41393 — PROFESSIONAL ENGINEER

08.13.2025

PLANS PREPARED BY:

Technology Associates

SEATTLE MARKET OFFICE
9725 3RD AVENUE NE, STE. 410
SEATTLE, WA 98115

WEST BAKERVIEW - SCHLOSSER - SNOPUD

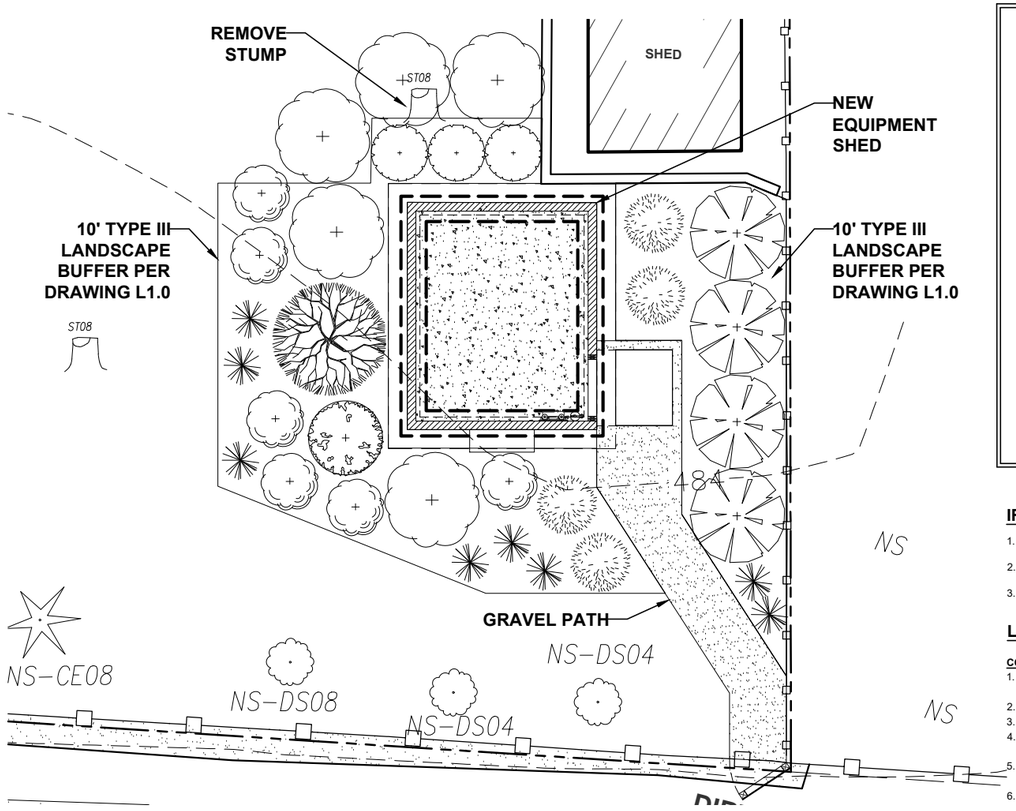
4822 103RD PL SW MUKILTEO, WA 98275

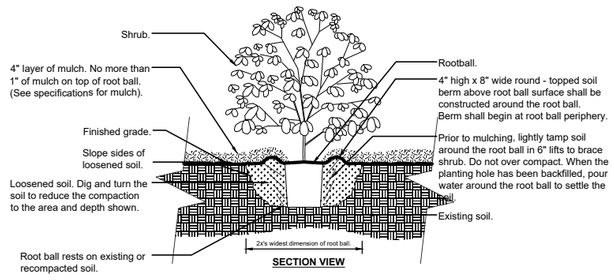
SHEET NAME:

FOUNDATION AND ROOF FRAMING DETAILS

DATE:	03.07.2025
DRAWN BY:	TV
CHECKED BY:	MKS
PROJECT NUMBER:	SE01458B
SHEET NUMBER:	S3.0

LANDLORD SIGNATURE





SECTION VIEW

Notes:
1- Shrubs shall be of quality prescribed in the root observations detail and specifications.

2- See specifications for further requirements related to this detail.

SHRUB PLANTING DETAIL

NO SCALE

PLANT SCHEDULE

SYMBOL	QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE / COMMENTS
SHRUBS				
	1	ACER P. VAR. DISSECTUM 'RED DRAGON'	RED DRAGON LACELEAF JAPANESE MAPLE	5 GAL., AS NOTED
	4	CORNUS STOLONIFERA 'ARCTIC FIRE'	ARCTIC FIRE REDTWIG DOGWOOD	5 GAL., 5' O.C.
	4	HOSTA SIEBOLDIANA 'HALCYON'	HALCYON BLUE HOSTA	1 GAL., 36" O.C.
	5	HYDRANGEA M. 'ANNABELLE'	WHITE ANNABELLE HYDRANGEA	5 GAL., 4' O.C.
	8	HAKONECHLOA MACRA 'AUREOLA'	GOLDEN JAPANESE FOREST GRASS	1 GAL., 30" O.C.
	6	RHODY SP. ' DORA AMATEIS'	DORA AMATEIS RHODY	5 GAL., 4' O.C.
	1	SPIREA JAPONICA 'GOLDMOUND'	GOLDMOUND SPIREA	2 GAL., 4' O.C.
	3	THUJA O. 'EMERALD GREEN'	EMERALD GREEN ARBORVITAE	6' HT. BB, 3' O.C.

IRRIGATION NOTE:

1. ALL NEW PLANTINGS WILL BE WATERED BY HAND OR WITH SOAKER HOSES BY THE HOMEOWNER.
2. APPLICANT WILL CONTRACT WITH A LANDSCAPE MAINTENANCE COMPANY TO WATER THE NEW PLANTINGS UNTIL THEY ARE FULLY ESTABLISHED.
3. LANDSCAPE CONTRACTOR WILL MONITOR WATER NEEDS AND MAINTAIN REQUIRED PLANTINGS.

LANDSCAPE NOTES:

CONTRACTORS NOTES:

1. THIS IS NOT A FORMAL SURVEY. PROPERTY INFORMATION CONTAINED HEREIN, CALCULATED FROM OWNERS DOCUMENTS, CITY RECORDS, & ON SITE OBSERVATIONS.
2. ALL CONSTRUCTION CONTRACTS SHALL BE BETWEEN HOMEOWNER AND CONTRACTOR EXCLUSIVELY.
3. PROJECT MANAGER, ACTS AS AGENT FOR OWNER AND IS NOT RESPONSIBLE FOR PAYMENT TO CONTRACTORS.
4. CONTRACTOR OR OWNER MUST VERIFY ON SITE DIMENSIONS PRIOR TO PURCHASE OF MATERIALS OR CONSTRUCTION, AND INFORM OWNER OR LANDSCAPE ARCHITECT OF DISCREPANCIES.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION AND PROTECTION OF ALL UNDERGROUND UTILITIES AND SHALL ACCEPT FULL RESPONSIBILITY DUE TO NEGLIGENCE.
6. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR STRUCTURAL INTEGRITY AND DURABILITY OF ALL ARCHITECTURAL AND LANDSCAPE CONSTRUCTION.
7. ALL CONSTRUCTION SHALL MEET BUILDING CODES AS THEY APPLY.
8. OWNER SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND PAYING ALL PERMIT FEES. LANDSCAPE ARCHITECT WILL ASSUME OWNER HAS OBTAINED ALL PERMITS UNLESS SPECIFICALLY INSTRUCTED BY OWNERS TO OBTAIN PERMITS ON THEIR BEHALF.
9. CONTRACTOR SHALL ENSURE PROPER DRAINAGE FOR ALL LANDSCAPE AREAS. FINISH GRADES SHALL MEET EXISTING GRADES AND PROMOTE POSITIVE DRAINAGE.
10. ALL SALVAGEABLE MATERIALS AND ITEMS SHALL REMAIN PROPERTY OF OWNER.
11. ALL CONCRETE FORM WORK SHALL BE INSPECTED BY OWNER OR LANDSCAPE ARCHITECT PRIOR TO POUR.

PLANTING NOTES

12. PLANT ALL SHRUBS AND TREES WITH A MINIMUM 6" TOPSOIL MIX AROUND ROOT BALL. MIX TOPSOIL 50% WITH EXISTING SOIL.
13. USE THREE WAY OR BETTER FOR ALL IMPORTED TOPSOIL.
14. COVER ALL PLANT BEDS WITH 3" BLACK FINE BARK MULCH.
15. SPREAD PREEN OR MIRACLE GROW WEED AND FEED HERBICIDE WITH TRIFLURALINE PER MANUFACTURES SPECS, ONLY IN PLANT BEDS. APPLY PREEN AFTER PLANTING AND PRIOR TO APPLICATION OF MULCH, AND AGAIN TO TOP SURFACE AFTER APPLYING MULCH.
16. ALL PLANT MATERIAL SHALL BE AVAILABLE ON SITE FOR INSPECTION BY OWNER OR PROJECT MANAGER PRIOR TO PLANTING.
17. EXISTING PLANTS SHALL BE SAVED WHENEVER PRACTICAL, AND REINCORPORATED INTO THE LANDSCAPE.
18. NO SUBSTITUTION FOR PLANT MATERIAL SHALL BE ALLOWED WITHOUT WRITTEN PERMISSION FROM LANDSCAPE ARCHITECT.
19. ALL PLANT MATERIAL SHALL BE FREE OF PEST AND DISEASES AND WITHOUT DAMAGE TO ROOT OR FOLIAGE.
20. ALL PLANT PLACEMENT SHALL BE INSPECTED BY LANDSCAPE ARCHITECT PRIOR TO PLANTING.
21. PROVIDE 48 HOUR NOTICE FOR INSPECTIONS.

SOD LAWN NOTES

22. SET ROUGH GRADES WITHIN 2-4" OF FINISH GRADE.
23. SPREAD 4" THREE WAY MIX TOPSOIL OR BETTER, OVER LAWN BED AREA.
24. APPLY DOLOMITE LIME AT RATE OF 50 LBS. PER 1000 S.F.
25. TILL TO A DEPTH OF 6-8". FLOAT AND RAKE FREE OF DEBRIS LARGER THAN 1" IN DIA.
26. ROLL WITH 200 LB. ROLLER TWO DIRECTIONS. LIGHTLY RAKE SURFACE.
27. LAY SOD CROSS SLOPE, WITH STAGGERED JOINTS. ROLL SET SOD WITH 200 LB. ROLLER TWO DIRECTIONS.
28. USE COUNTRY GREEN, PREMIUM SOD OR EQ. WITH MINIMUM 60% PERENNIAL RYE GRASS AND 20% CREEPING FESCUE MIX.
29. SOD SHALL BE LAID WITHIN 48 HOURS OF DELIVERY AND BE HEALTHY AND MOIST AT TIME OF DELIVERY.

LAWN SEED MIX NOTES

30. SET ROUGH GRADE WITHIN 2" OF FINISH GRADE.
31. SPREAD 4" THREE WAY MIX TOPSOIL OR BETTER, OVER LAWN BED AREA.
32. APPLY DOLOMITE LIME AT RATE OF 50 LBS. PER 1000 S.F. AND TILL TO A DEPTH OF 6-8" OVER ALL DISTURBED AREAS.
33. FLOAT AND RAKE FREE OF DEBRIS LARGER THAN 1".
34. ROLL WITH 200 LB. ROLLER, TWO DIRECTIONS. LIGHTLY RAKE SURFACE.
35. HYDROSEED WITH FESCUE, BENTGRASS, BLUEGRASS ESTATE SHADE MIX, OR EQ.
36. APPLY AT RATE OF 12 LBS. SEED PER 1000 S.F. APPLY WITH GROUND TEMP. ABOVE 55 DEGREES F., AND NO LATER THAN OCTOBER 15TH.

PLANS PREPARED BY:

SUMMIT LANDSCAPE ARCHITECTURE
LEE OHLDE, PLA
WA STATE LANDSCAPE ARCHITECT #20115231

CALL DIAL-A-DIG AT 1-800-424-5555

A MINIMUM OF 48 HOURS BEFORE CONSTRUCTION BEGINS

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

LANDSCAPE PLAN | 0 6" 1' 2' | SCALE: 1/2" = 1'-0" (24x36) (OR) 1/4" = 1'-0" (11x17) | A

PLANS PREPARED FOR:

T-Mobile

19807 NORTH CREEK PKWY N
BOTHELL, WA 98011

PLANS PREPARED BY:

Technology Associates

SEATTLE MARKET OFFICE
1455 NW LEARY WAY, STE. 400
SEATTLE, WA 98107

JURISDICTION APPROVAL SEAL:

ENGINEERING SEAL:

STATE OF WASHINGTON
LEE E. OHLDE
NO. 20115231 EXP. 4/5/26
LICENSED LANDSCAPE ARCHITECT

DRAWING NOTICE:

REVISIONS:

DESCRIPTION	DATE	BY	REV
ISSUED FOR 90% CD	07/30/2025	MGM	A

SITE NAME:

WEST BAKERVIEW - SCHLOSSER - SNOPUD

SITE NUMBER:

SE01458B

SITE ADDRESS:

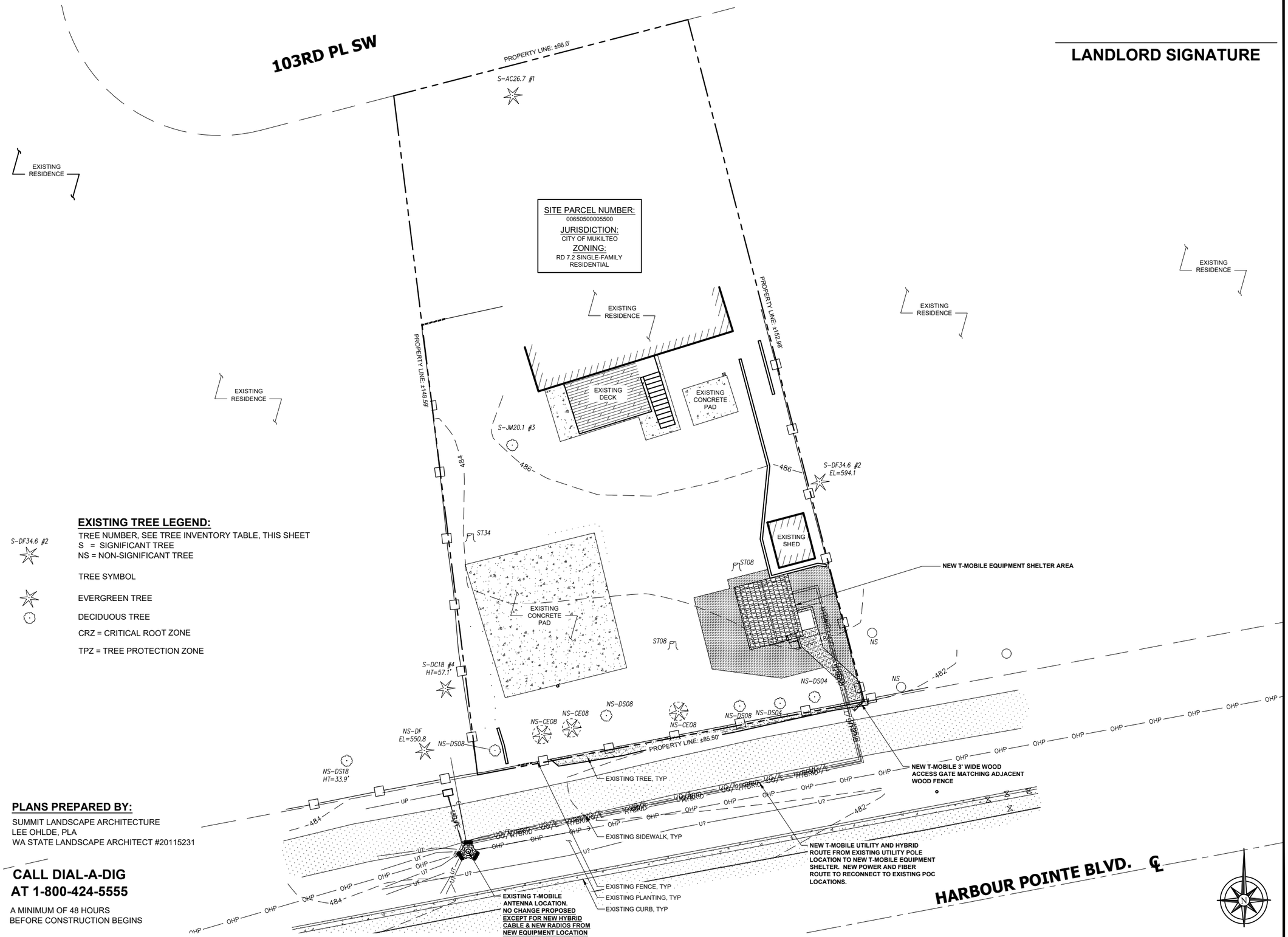
4822 103RD PL SW
MUKILTEO, WA 98275

SHEET DESCRIPTION:

LANDSCAPE PLAN

SHEET NUMBER:

L1.0



EXISTING TREE LEGEND:

TREE NUMBER, SEE TREE INVENTORY TABLE, THIS SHEET
S = SIGNIFICANT TREE
NS = NON-SIGNIFICANT TREE

S-DF34.6 #2 — TREE SYMBOL

EVERGREEN TREE

DECIDUOUS TREE

CRZ = CRITICAL ROOT ZONE

TPZ = TREE PROTECTION ZONE

PLANS PREPARED BY:

SUMMIT LANDSCAPE ARCHITECTURE
LEE OHLDE, PLA
WA STATE LANDSCAPE ARCHITECT #20115231

CALL DIAL-A-DIG AT 1-800-424-5555

A MINIMUM OF 48 HOURS BEFORE CONSTRUCTION BEGINS

LANDLORD SIGNATURE

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

TREE RETENTION SITE PLAN

10' 0' 5' 10'

SCALE: 1" = 10'-0" (24x36)
(OR) 1/2" = 10'-0" (11x17)

PLANS PREPARED FOR:

T-Mobile

19807 NORTH CREEK PKWY N
BOTHELL, WA 98011

PLANS PREPARED BY:

Technology Associates

SEATTLE MARKET OFFICE
1455 NW LEARY WAY, STE. 400
SEATTLE, WA 98107

JURISDICTION APPROVAL SEAL:

ENGINEERING SEAL:

STATE OF WASHINGTON
LEE E. OHLDE
NO. 20115231 EXP. 4/5/10
LICENSED LANDSCAPE ARCHITECT

DRAWING NOTICE:

REVISIONS:

DESCRIPTION	DATE	BY	REV
ISSUED FOR 90% CD	07/30/2025	MGM	A

SITE NAME:

WEST BAKERVIEW - SCHLOSSER - SNOPUD

SITE NUMBER:

SE01458B

SITE ADDRESS:

4822 103RD PL SW
MUKILTEO, WA 98275

SHEET DESCRIPTION:

TREE RETENTION SITE PLAN

SHEET NUMBER:

L2.0

TREE RETENTION NOTES:

1. TREE PROTECTION FENCES ARE TO BE ERECTED PRIORTO BEGINNING OF WORK TO PROTECT TREES THAT ARE TO BE PRESERVED. FENCES DEFINE SPECIFIC PROTECTION ZONE FOR GROUPS OF TREES. FENCES ARE TO REMAIN UNTIL ALL SITE WORK HAS BEEN COMPLETED. FENCES MAY NOT BE RELOCATED OR REMOVED WITHOUT THE WRITTEN PERMISSION OF THE CONSULTING ARBORIST.
2. THE CONSULTING ARBORIST WILL INSPECT PLACEMENT OF TREE PROTECTING FENCING PRIOR TO BEGINNING OF CONSTRUCTION.
3. CONSTRUCTION TRAILERS, TRAFFIC AND STORAGE AREAS MUST REMAIN WITHIN WORK AREA AND OUTSIDE OF TREE PROTECTION FENCING AT ALL TIMES.
4. ALL UNDERGROUND UTILITIES, DRAINLINES, OR IRRIGATION LINES SHALL BE ROUTED OUTSIDE OF THE TREE PROTECTION ZONE WITH THE EXCEPTION OF UTILITY BORING.
5. NO MATERIALS, EQUIPMENT, SPOILS, WASTE OR WASHOUT WATER MAY BE DEPOSITED, STORED OR PARKED WITHIN THE TREE PROTECTION ZONE FENCING.
6. ADDITIONAL TREE PRUNING MAY BE REQUIRED FOR CLEARANCE DURING CONSTRUCTION. ALL TREE PRUNING MUST CONFORM TO ANSI A300 STANDARDS AND PERFORMED BY AN ISA CERTIFIED ARBORIST. ALL PRUNING CUTS SHALL BE SQUARE AND PERFORMED WITH A SHARP PRUNING TOOL.
7. NO HERBICIDES OR PESTICIDES SHALL BE USED IN THIS CONSTRUCTION PROJECT EXCEPT IF APPROVED IN WRITING BY THE CONSULTING ARBORIST.
8. IF INJURY SHOULD OCCUR TO ANY TREE DURING CONSTRUCTION, IT SHALL BE EVALUATED AS SOON AS POSSIBLE BY THE CONSULTING ARBORIST TO DETERMINE APPROPRIATE ACTION, IF ANY.
9. ANY GRADING, TRENCHING, CONSTRUCTION, DEMOLITION, OR OTHER WORK THAT IS EXPECTED TO ENCOUNTER TREE ROOTS MUST BE MONITORED. WHEN ROOTS ARE ENCOUNTERED 1" IN DIAMETER OR GREATER, THEY SHALL BE CLEANLY CUT WITH A SHARP PRUNING SAW OR PRUNERS. IF ROOTS GREATER THAN 2" DIAMETER ARE DISCOVERED, THE CONSULTING ARBORIST SHALL BE NOTIFIED AND SHALL OVERSEE ANY NECESSARY PRUNING.
10. ANY ROOTS DAMAGED DURING EXCAVATION, GRADING, OR CONSTRUCTION SHALL BE EXPOSED BACK TO SOUND TISSUE BY HAND DIGGING, AND CUT CLEANLY WITH A SHARP PRUNING SAW OR WITH PRUNERS IN ACCORDANCE WITH NOTE 9 ABOVE.
11. MAINTAIN FIRE-SAFE AREAS AROUND TREE PROTECTION ZONES. NO HEAT SOURCES, FLAMES, IGNITION SOURCES OR HEATED LIQUIDS SHALL BE ALLOWED IN TREE PROTECTION ZONES.
12. CONSTRUCTION ACCESS ROUTE SHALL BE COVERED WITH 12" MIN. DEPTH OF WOOD FIBER MULCH, HOG FUEL OR CONSTRUCTION MATTING. MATERIAL SHALL BE APPROVED BY THE CONSULTING ARBORIST.
13. CONSTRUCTION ACCESS ROUTE SHALL BE RESTORED TO PRE-CONSTRUCTION OR BETTER CONDITION AT THE COMPLETION OF WORK, AT MINIMUM ALL DISTURBED SURFACES SHALL BE SEEDED WITH AN EROSION CONTROL SEED MIX.

EXISTING TREE LEGEND:

TREE NUMBER, SEE TREE INVENTORY TABLE, THIS SHEET
S = SIGNIFICANT TREE
NS = NON-SIGNIFICANT TREE

S–DF34.6 #2 — TREE SYMBOL

EVERGREEN TREE

DECIDUOUS TREE

CRZ = CRITICAL ROOT ZONE

TPZ = TREE PROTECTION ZONE

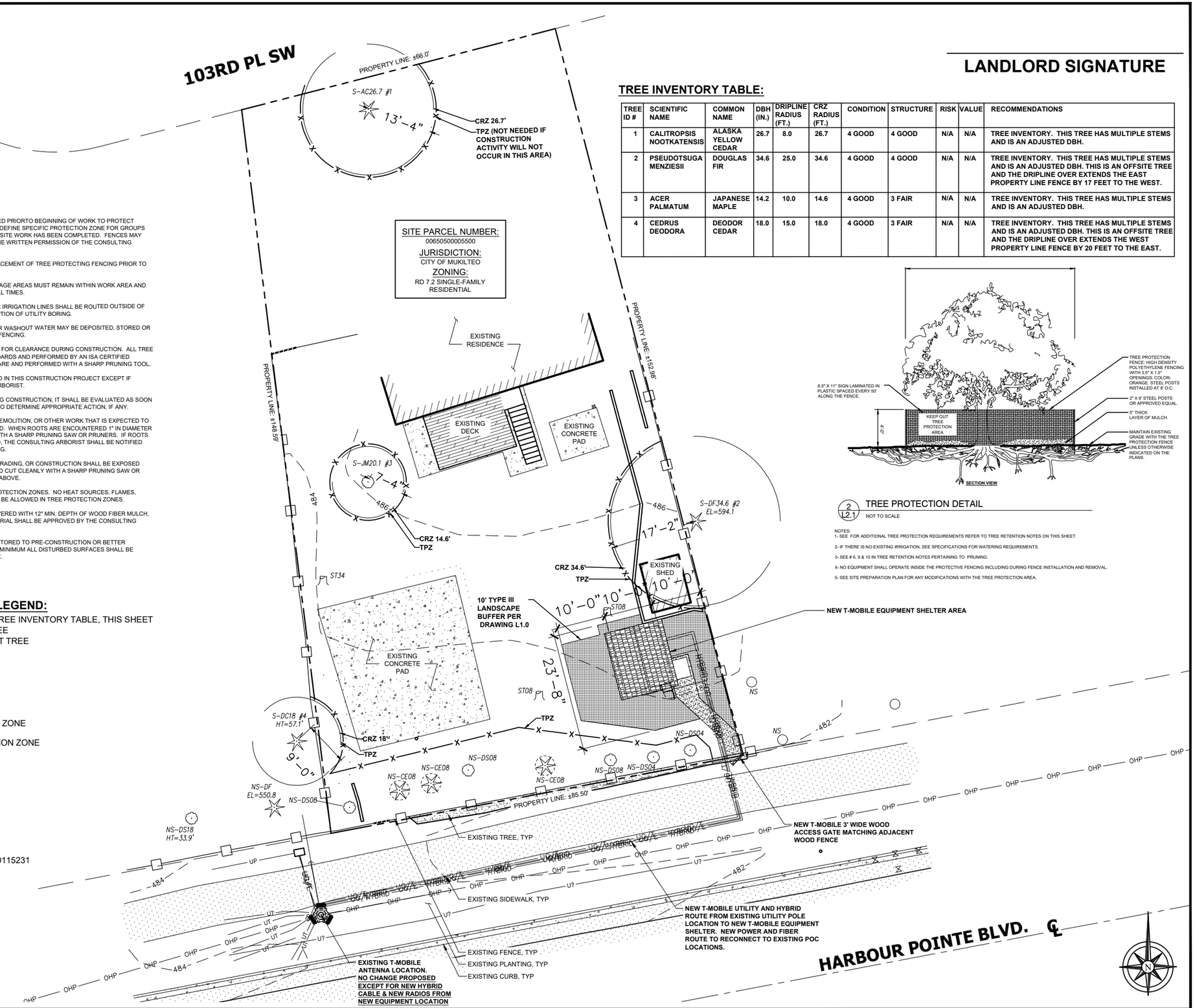
PLANS PREPARED BY:

SUMMIT LANDSCAPE ARCHITECTURE
LEE OHLDE, PLA
WA STATE LANDSCAPE ARCHITECT #20115231

P.O. BOX 1603
MONROE, WA 98272
425.760.4359

CALL DIAL-A-DIG AT 1-800-424-5555

A MINIMUM OF 48 HOURS BEFORE CONSTRUCTION BEGINS



LANDLORD SIGNATURE

TREE INVENTORY TABLE:

TREE ID #	SCIENTIFIC NAME	COMMON NAME	DBH (IN.)	DRIPLINE RADIUS (FT.)	CRZ RADIUS (FT.)	CONDITION	STRUCTURE	RISK	VALUE	RECOMMENDATIONS
1	CALITROPSIS NOOTKATENSIS	ALASKA YELLOW CEDAR	26.7	8.0	26.7	4 GOOD	4 GOOD	N/A	N/A	TREE INVENTORY. THIS TREE HAS MULTIPLE STEMS AND IS AN ADJUSTED DBH.
2	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	34.6	25.0	34.6	4 GOOD	4 GOOD	N/A	N/A	TREE INVENTORY. THIS TREE HAS MULTIPLE STEMS AND IS AN ADJUSTED DBH. THIS IS AN OFFSITE TREE AND THE DRIPLINE OVER EXTENDS THE EAST PROPERTY LINE FENCE BY 17 FEET TO THE WEST.
3	ACER PALMATUM	JAPANESE MAPLE	14.2	10.0	14.6	4 GOOD	3 FAIR	N/A	N/A	TREE INVENTORY. THIS TREE HAS MULTIPLE STEMS AND IS AN ADJUSTED DBH.
4	CEDRUS DEODORA	DEODOR CEDAR	18.0	15.0	18.0	4 GOOD	3 FAIR	N/A	N/A	TREE INVENTORY. THIS TREE HAS MULTIPLE STEMS AND IS AN ADJUSTED DBH. THIS IS AN OFFSITE TREE AND THE DRIPLINE OVER EXTENDS THE WEST PROPERTY LINE FENCE BY 20 FEET TO THE EAST.

2 / L2.1 TREE PROTECTION DETAIL
NOT TO SCALE

NOTES:
1- SEE FOR ADDITIONAL TREE PROTECTION REQUIREMENTS REFER TO TREE RETENTION NOTES ON THIS SHEET.
2- IF THERE IS NO EXISTING IRRIGATION, SEE SPECIFICATIONS FOR WATERING REQUIREMENTS.
3- SEE # 6, 9 & 10 IN TREE RETENTION NOTES PERTAINING TO PRUNING.
4- NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.
5- SEE SITE PREPARATION PLAN FOR ANY MODIFICATIONS WITH THE TREE PROTECTION AREA.

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

TREE RETENTION PLAN

10' 0' 5' 10'

SCALE: 1" = 10'-0" (24x36)
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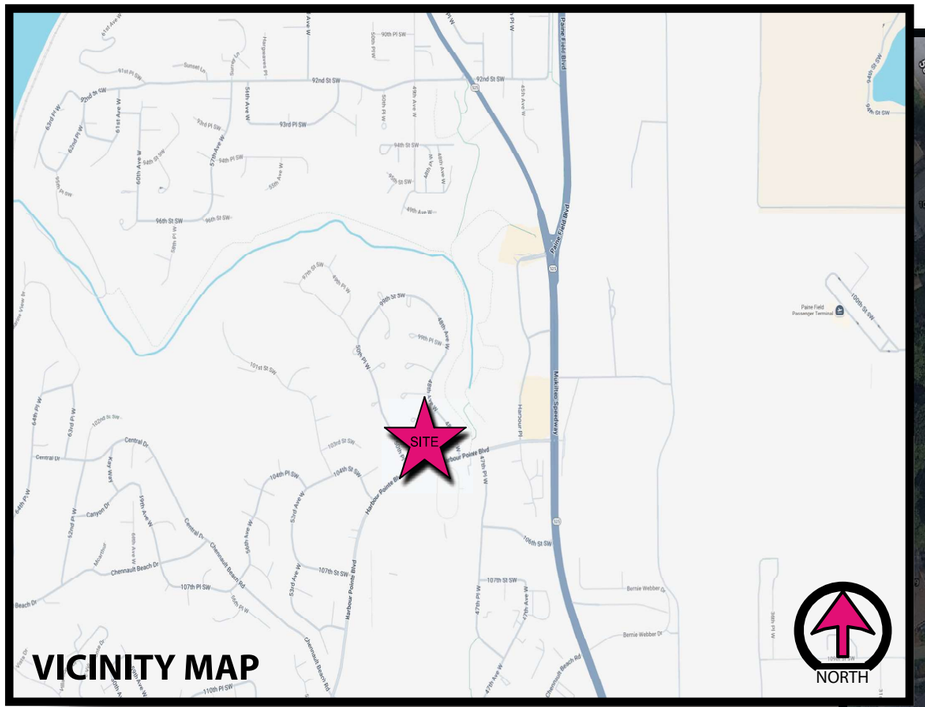


AERIAL MAP

T-Mobile

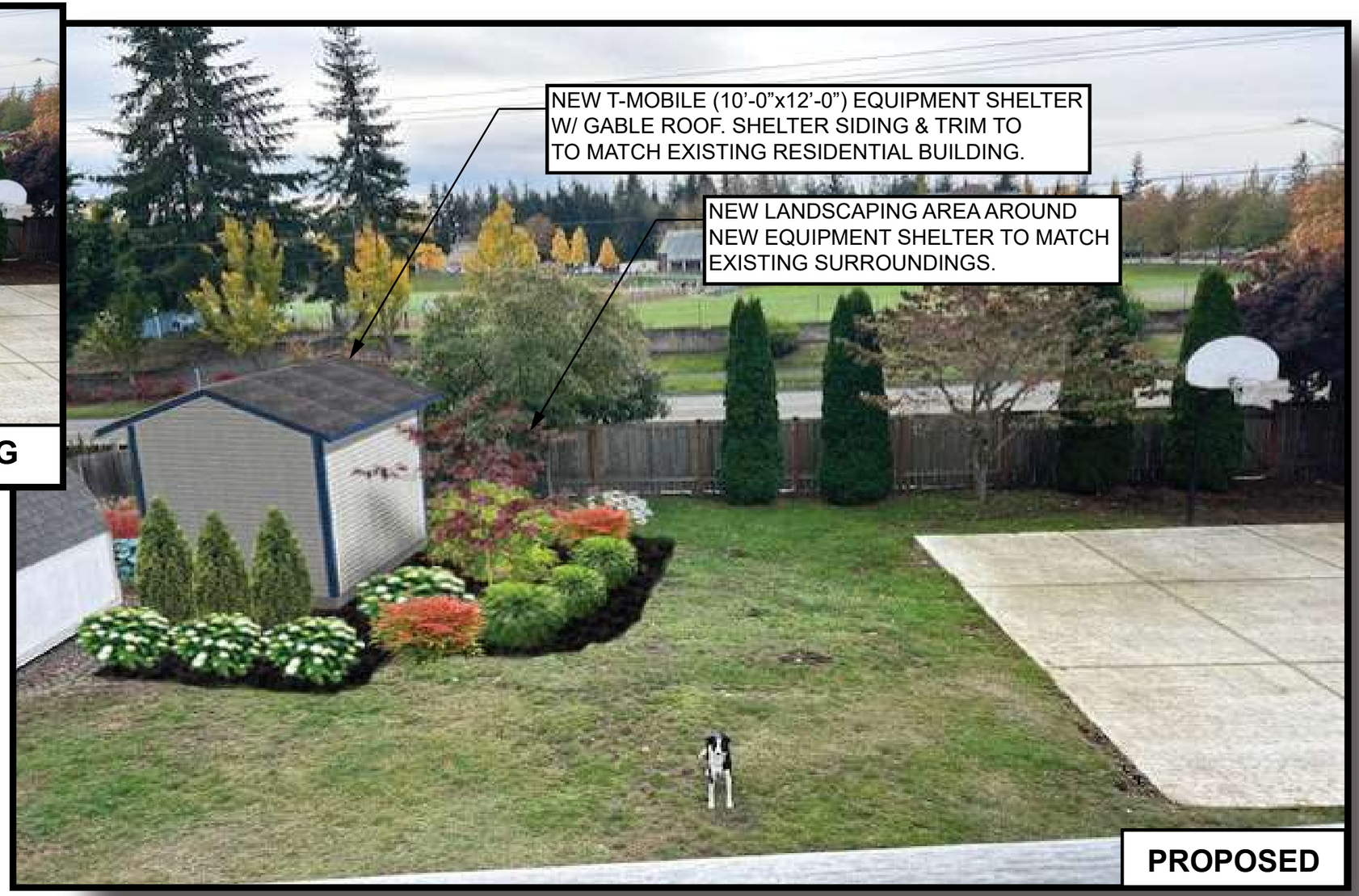
SE01458B

WEST BAKERVIEW - SCHLOSSER - SNOPUD

4822 103RD PL SW
MUKILTEO, WA 98275

Technology Associates

EXISTING



PROPOSED

VIEWPOINT 1

T-Mobile

SE01458B

WEST BAKERVIEW - SCHLOSSER - SNOPUD

4822 103RD PL SW

MUKILTEO, WA 98275

Technology Associates

EXISTING

PROPOSED

VIEWPOINT 2

T-Mobile

SE01458B

WEST BAKERVIEW - SCHLOSSER - SNOPUD

4822 103RD PL SW
MUKILTEO, WA 98275

Technology Associates

EXISTING

PROPOSED

VIEWPOINT 3