

C:\Users\steven.garrett\KIRKLAND\OneDrive - Casne Engineering\Port of Tacoma\241038-005 POT EBC Substation\Drawings\G01 - Steven.garrett - LAST SAVE: 6/24/25 23:36:59 - PLOTTED: 6/24/25 23:44:10 BINDING EDGE

PORT OF TACOMA

EBC MOTIVE TEMPORARY POWER PROJECT ID # 101686.01 PURCHASE AGREEMENT # POT-PA-000000068

PORT COMMISSIONERS:

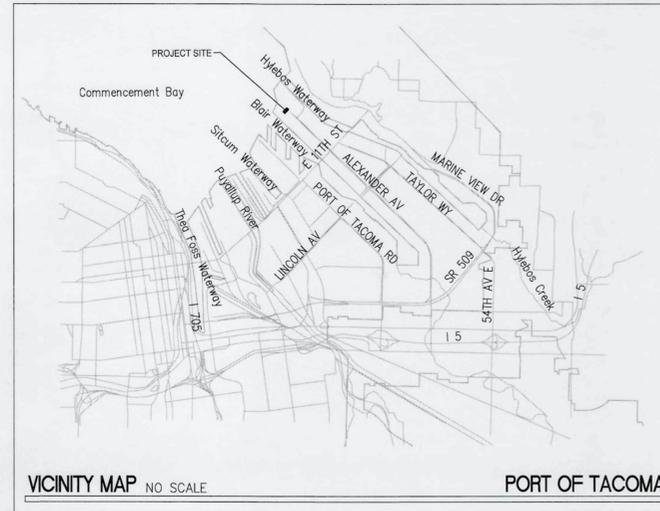
RICHARD P. MARZANO
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PORT STAFF:

ERIC JOHNSON
Port of Tacoma Executive Director

THAIS HOWARD, P.E.
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Project Manager II



CONSULTANT: CURTIS CLUTE, P.E.
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CASNE Engineering
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CIVIL CONSULTANT: DON DAVIS, P.E.
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CIVIL | STRUCTURAL | ARCHITECTURAL | SURVEY
4815 CENTER STREET | TACOMA, WA 98409
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| DRAWING LIST | | | | |
|-------------------|-----------------|---------|---|----------|
| SHEET DESIGNATION | INCLUDED IN SET | SHEET # | SHEET TITLE | REVISION |
| 1 | ● | G01 | COVER SHEET | 1 |
| 2 | | G02 | SITE PLAN | |
| 3 | | C0.1 | GENERAL NOTES | |
| 4 | | C1.0 | DEMOLITION AND TESC PLAN | |
| 5 | ● | C2.0 | SURFACING PLAN | 1 |
| 6 | | C3.0 | CIVIL DETAILS | |
| 7 | | C4.0 | CIVIL DETAILS | |
| 8 | | E0.0 | ELECTRICAL LEGENDS & SYMBOLS | |
| 9 | | E1.0TR | TEMPORARY POWER SITE PLAN - REMOVAL | |
| 10 | ● | E1.0T | TEMPORARY POWER SITE PLAN | 1 |
| 11 | | E4.0T | MOTIVE MARINE SERVICE BLDG. ENLARGED PLAN | |
| 12 | | E10.0T | TEMPORARY ELECTRICAL ONE-LINE DIAGRAM | |
| 13 | | E10.2 | MM-DP-1 PANEL SCHEDULE | |
| 14 | | E10.4T | TEMPORARY EQUIPMENT RACK ELEVATION | |
| 15 | ● | E10.5T | ENLARGED TEMPORARY POWER SITE PLAN | 1 |
| 16 | ● | E11.1T | DUCT BANK DETAILS | 1 |
| 17 | ● | E11.2T | VAULT DETAILS | 1 |
| 18 | ● | E11.3T | DETAILS | 1 |
| 19 | | E11.4T | TPU TRANSFORMER VAULT STANDARDS | |

PROJECT INFORMATION:

SITE ADDRESS: 401 TAYLOR WAY, TACOMA, WA 98421
 SITE PARCEL: PORT PARCEL 1B (2,073,538.15 SF; 47.60 ACRES)
 PROPERTY OWNER: PORT OF TACOMA
 902 PORT OF TACOMA ROAD
 TACOMA, WA
 ZONING: PMI; PORT MARITIME & INDUSTRIAL DISTRICT
 SCOPE OF WORK: CONSTRUCT NEW POWER FOR TEMPORARY USE BY MOTIVE MARINE.
 NEW IMPERVIOUS SURFACE: 0 S.F.
 REPLACED IMPERVIOUS SURFACE: 3,230 S.F.
 ESTIMATED EARTHWORK: 480± CY CUT/FILL (0± NET)

REVISION #1
JUNE 20, 2025



CASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASNE.COM JOB NO. 241038-005

MARK: REVISION: REVISION #1 - COMM VALSHTG
 BY: APPR: CEC
 DATE: 06/20/25



CEC 04/8/25
 CHECKED BY: AA 04/8/25
 DATE: 04/8/25
 PROJECT: PORT CENTER ROAD
 TACOMA, WA 98421

EBC MOTIVE TEMPORARY POWER

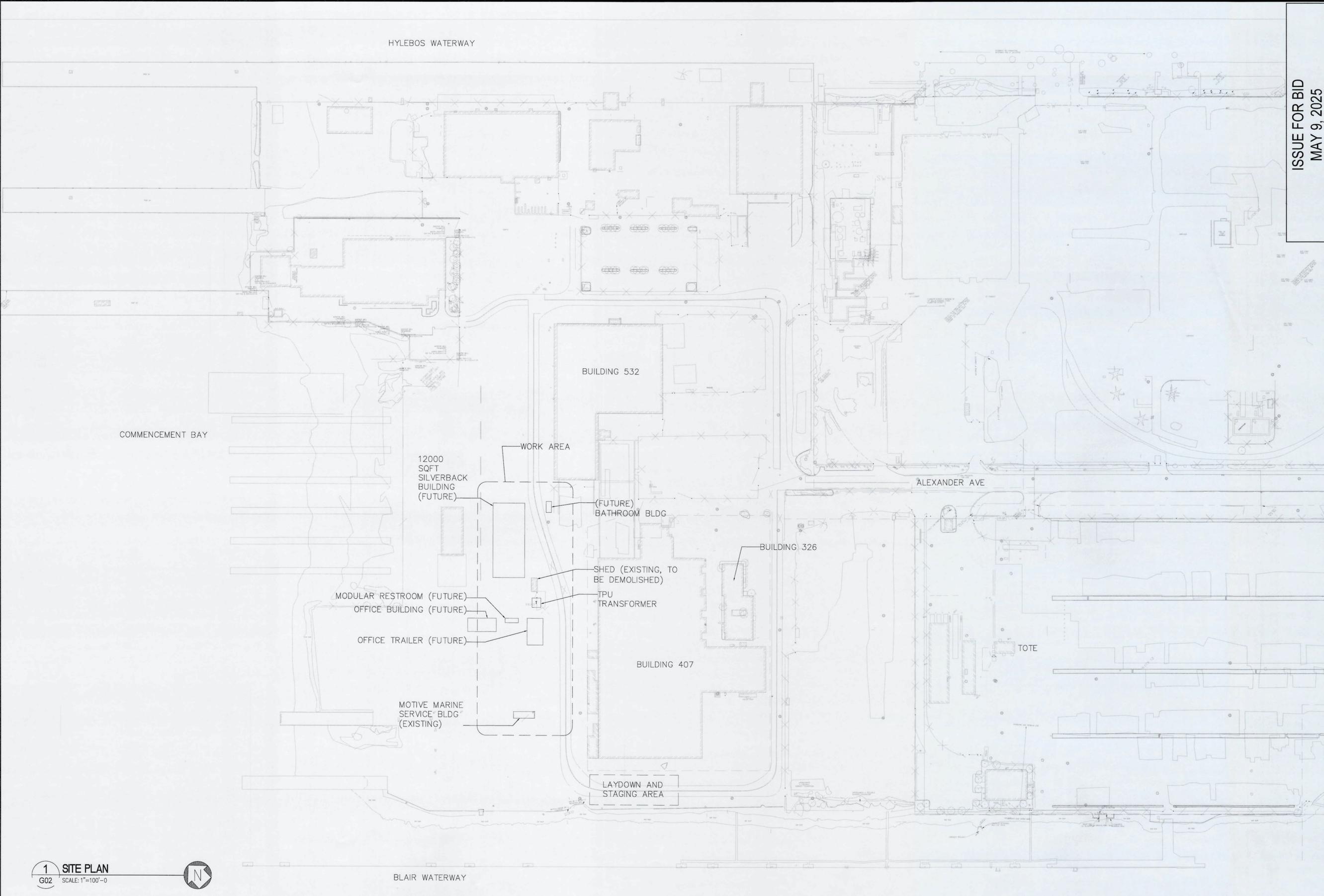
6709
G01
SH # 1 OF 19

COVER SHEET
 RANGE: 03 SECTION: 27
 TOWNSHIP: 21 RANGE: 03 SECTION: 27
 DAT-HRZ: - NAD83 VERT: MLW, 1983-2001 EPOCH
 PARCEL: PORT PARCEL 1B DRAWING SCALE: AS NOTED



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BINDING EDGE



1 SITE PLAN
G02 SCALE: 1"=100'-0"



ISSUE FOR BID
MAY 9, 2025

CASNE Engineering
3545 FACTORY BLVD. SUITE 200
TACOMA, WA 98421
(253) 522-1000 WWW.CASNE.COM

MARK: _____ REVISION: _____ BY: _____ DATE: _____

APPR: _____ DATE: _____



| | | |
|--------------------------------------|--------------|---------|
| CEC 04/8/25 | CHECKED BY | DATE |
| AA 04/8/25 | AA | 04/8/25 |
| PROJECTED BY: steven.garrett | PROJ. ENGR | DATE |
| PORT ADDRESS: 401 East Alexander Ave | PROJECTED BY | DATE |
| TACOMA, WA 98421 | PROJECTED BY | DATE |

EBC MOTIVE TEMPORARY POWER

APPROVED: *Steven Garrett*
DIRECTOR

PRINTED BY: steven.garrett
PORT ADDRESS: 401 East Alexander Ave
TACOMA, WA 98421

6709
G02
SH# 2 OF 19

PA: POT-PA-000000068
PROJ. ID: 101686.01
PHASE: ISSUE FOR BID

TOWNSHIP: 21
RANGE: 03
SECTION: 27

DAT-HRZ: NAD83
VERT: M.W. 1983-2001 EPOCH

PARCEL: -----
DRAWING SCALE: AS NOTED

PROJECT NOTES

- 1. BACKGROUND INFORMATION PROVIDED BY PORT OF TACOMA...
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS...
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL ON-SITE AND SHALL COORDINATE HIS ACTIVITIES WITH THE OWNER AND ENGINEER...
4. THE BURIED UTILITIES ON THIS PROJECT ARE SHOWN IN THEIR APPROXIMATE LOCATION WHERE KNOWN...
5. CALL THE UNDERGROUND LOCATE LINE 1-800-424-5555, AND A PRIVATE UTILITY LOCATE, A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATIONS...
6. WHERE CONFLICTS OCCUR BETWEEN EXISTING FEATURES AND THE PLACEMENT OF NEW FACILITIES, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER...
7. THE CONTRACTOR FOR THIS PROJECT SHALL MAINTAIN A CLEAN, LEGIBLE SET OF THESE PLANS AND NOTE ALL DEVIATIONS THEREON...
8. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT TO PREVENT UTILITY INTERRUPTION INCLUDING, BUT NOT LIMITED TO, PORTABLE GENERATORS, DOMESTIC WATER PIPING, AND SEWAGE CONVEYANCE...
9. PRIOR TO BIDDING, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAKE ALL NECESSARY SITE INSPECTIONS AND DETERMINATIONS OF ITEMS AND QUANTITIES OF WORK TO ENSURE THAT ALL ITEMS OF WORK NECESSARY TO PERFORM A COMPLETE AND ACCEPTABLE JOB HAVE BEEN TAKEN INTO CONSIDERATION.

PLASTIC COVERING NOTES

- 1. PLASTIC SHEETING SHALL HAVE A MINIMUM THICKNESS OF 6 MILS AND SHALL MEET THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS.
2. COVERING SHALL BE INSTALLED AND MAINTAINED TIGHTLY IN PLACE BY USING SANDBAGS OR TIRES ON ROPES WITH A MAXIMUM 10-FOOT GRID SPACING IN ALL DIRECTIONS...
3. CLEAR PLASTIC COVERING SHALL BE INSTALLED IMMEDIATELY ON AREAS SEEDDED BETWEEN NOVEMBER 1 AND MARCH 31 AND REMAIN UNTIL VEGETATION IS FIRMLY ESTABLISHED.
4. WHEN THE COVERING IS USED ON UN-SEEDED SLOPES, IT SHALL BE KEPT IN PLACE UNTIL THE NEXT SEEDING PERIOD.
5. PLASTIC COVERING SHEETS SHALL BE BURIED TWO FEET AT THE TOP OF SLOPES IN ORDER TO PREVENT SURFACE WATER FLOW BENEATH SHEETS.
6. PROPER MAINTENANCE INCLUDES REGULAR CHECKS FOR RIPS AND DISLODGED ENDS.

STOCKPILE NOTES

- 1. PLACE STOCKPILES ON LAYERED PLASTIC SHEETS WITH A COMBINED THICKNESS OF NO LESS THAN 10 MILS.
2. STOCKPILES SHALL BE STABILIZED (WITH PLASTIC COVERING OR OTHER APPROVED DEVICE) DAILY.
3. IN ANY SEASON, SEDIMENT LEACHING FROM STOCK PILES MUST BE PREVENTED.
4. TOPSOIL SHALL NOT BE PLACED WHILE IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBGRADE IS EXCESSIVELY WET OR WHEN CONDITIONS EXIST THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING OR PROPOSED SODDING OR SEEDING.
5. PREVIOUSLY ESTABLISHED GRADES ON THE AREAS TO BE TOPSOILED SHALL BE MAINTAINED ACCORDING TO THE APPROVED PLAN.

SEASONAL LIMITATIONS ON CONSTRUCTION ACTIVITIES

THE FOLLOWING SHALL BE ADHERED TO ON ALL CONSTRUCTION SITES WITH EROSION SOILS AND/OR A GRADIENT OF GREATER THAN TWO PERCENT FOR LIMITING EXPOSED SOILS TO EROSION PROCESSES.

MAY 1ST TO SEPTEMBER 30TH (DRY SEASON)

THE CLEARING OF LAND, INCLUDING THE REMOVAL OF EXISTING VEGETATION OR OTHER GROUND COVER, MUST BE LIMITED TO ONLY AS MUCH LAND AREA AS CAN RECEIVE APPROPRIATE PROTECTIVE COVER OR BE OTHERWISE STABILIZED AFTER HAVING BEEN CLEARED OR OTHERWISE DISTURBED BY NO LATER THAN SEPTEMBER 30TH OF A GIVEN YEAR.

IN THE EVENT THAT CONSTRUCTION ACTIVITIES OR OTHER SITE DEVELOPMENT ACTIVITIES ARE DISCONTINUED FOR FOUR CONSECUTIVE DAYS OR MORE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSPECTION OF ALL EROSION AND SEDIMENTATION CONTROL FACILITIES IMMEDIATELY AFTER STORM EVENTS AND AT LEAST ONCE EVERY WEEK.

THE CONTRACTOR SHALL PROVIDE MATERIALS ONSITE READILY AVAILABLE TO IMMEDIATELY STABILIZE DENUDED AREAS DURING PERIODS OF INCLEMENT WEATHER WHICH RESULT IN EROSION AND SEDIMENT TRANSPORT OFFSITE.

THE CONTRACTOR SHALL ENSURE THE PROPER CONTINUED FUNCTIONING OF THE ESC FACILITIES BY PROMPT CLEANING AND MAINTENANCE AFTER EACH EROSION AND SEDIMENT PRODUCING RAINFALL EVENT.

OCTOBER 1ST TO APRIL 30TH (WET SEASON)

ON SITES WHERE UNINTERRUPTED CONSTRUCTION ACTIVITY IS IN PROGRESS, THE CLEARING OF LAND, INCLUDING THE REMOVAL OF EXISTING VEGETATION OR OTHER GROUND COVER, SHALL BE LIMITED TO ONLY AS MUCH LAND AREA AS CAN BE COVERED OR STABILIZED WITHIN 24 HOURS IN THE EVENT A MAJOR STORM IS PREDICTED AND/OR EROSION/SEDIMENT TRANSPORT OFFSITE IS OBSERVED.

ADDITIONALLY, ALL CLEARED OR DISTURBED AREAS WILL RECEIVE APPROPRIATE PROTECTIVE COVER OR BE OTHERWISE STABILIZED (SUCH AS MULCHING, NETTING, PLASTIC SHEETING, EROSION BLANKETS, TREE DRAINING MATERIAL, ETC.) WITHIN FIVE DAYS AFTER HAVING BEEN CLEARED OR OTHERWISE DISTURBED IF NOT BEING ACTIVELY WORKED.

THE CONTRACTOR SHALL AT ALL TIMES HAVE AVAILABLE FOR THE PROJECT SUFFICIENT QUANTITIES OF PROTECTIVE COVERING MATERIALS TO IMMEDIATELY STABILIZE ALL DISTURBED AREAS IN CASE THE PROJECT ENGINEER OR CITY DIRECTS THEM TO COVER DUE TO OBSERVED MIGRATION OF SOILS OR INCLEMENT WEATHER.

POLLUTION PREVENTION NOTES

- 1. EQUIPMENT LUBRICATION AND FUELING OPERATIONS SHALL OCCUR AT THE DESIGNATED FUELING AREA OR AN APPROVED OFF-SITE LOCATION.
2. PREVENT OILS AND FUELS FROM ENTERING THE STORM DRAINAGE SYSTEM AND WATERWAYS WITH PROPER CONTAINMENT DEVICES.
3. ACCESS TO CONSTRUCTION IS VIA ADJACENT EXISTING PAVED STREETS OR THE PROPOSED CONSTRUCTION ENTRANCE. SWEEP DIRT FROM PAVING DAILY OR AS NEEDED...
4. SPILL CLEANUP PROCEDURES SHALL BE POSTED ON-SITE. IN CASE OF A SPILL THAT MAY ENTER GROUNDWATER, SURFACE WATER, OR STORM DRAIN SYSTEM, CONTACT THE DIVISION OF EMERGENCY MANAGEMENT AT (800) 258-5990.
5. THE CONTRACTOR SHALL PREVENT ALL MATERIAL USED OR GENERATED ON-SITE FROM ENTERING THE STORM DRAINAGE SYSTEM...
6. THE CONTRACTOR SHALL SUBMIT DOCUMENTATION SUPPORTING THE CURRENT CERTIFICATION OF THE CONTRACTOR'S DESIGNATED CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL)...
7. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL A SAMPLE OF THE SITE LOG BOOK TO BE USED ON THE PROJECT FOR MAINTAINING EROSION CONTROL INSPECTION, OBSERVATION, CHECKLIST, AND CORRECTION REPORTS...
8. THE CONTRACTOR SHALL COMPLETE AN EROSION CONTROL CHECKLIST, CAREFULLY REVIEW, AND MAINTAIN ALL STORMWATER POLLUTION PREVENTION MEASURES DAILY BETWEEN NOVEMBER 1 AND MARCH 31...
9. CHECKLISTS AND MAINTENANCE INFORMATION SHALL BE KEPT IN THE SITE LOG BOOK...
10. MONTHLY DURING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT A COPY OF ALL RECENT INSPECTION, OBSERVATION, CHECKLIST, AND CORRECTION REPORTS TO THE OWNER AND ENGINEER.

DEMOLITION NOTES

- 1. REMOVE ALL DELETERIOUS MATERIAL FOUND ON-SITE INCLUDING VEGETATION, SCRAP WOOD, TRASH, ETC. AND DISPOSE OF AT AN APPROVED OFF-SITE LOCATION.
2. AT ALL TIMES THE CONTRACTOR SHALL MAINTAIN SIGNS, BARRICADES, FENCING, OR OTHER MEASURES TO ENSURE CONTINUOUS PROTECTION OF THE PUBLIC AND TO PREVENT UNAUTHORIZED ENTRY TO THE CONSTRUCTION AREA...
3. DAMAGE TO ANY PROPERTY, INCLUDING BUT NOT LIMITED TO, BUILDINGS, UTILITIES, VEHICLES, FENCING, OR LANDSCAPING AS A RESULT OF CONTRACTORS ACTIVITIES WILL BE REPAIRED OR REPLACED AT THE CONTRACTORS EXPENSE.
4. THE CONTRACTOR IS FINANCIALLY RESPONSIBLE FOR THE MAINTENANCE AND/OR REPAIR OF OFF-SITE AND ON-SITE PAVED SURFACES WHERE DAMAGE HAS BEEN SUSTAINED DUE TO THE DEVELOPMENT'S CONSTRUCTION TRAFFIC.

EXCAVATION NOTES

- 1. EXCAVATE TO ELEVATIONS, LINES AND GRADES INDICATED TO NOT MORE THAN 1/2-INCH ABOVE OR BELOW THAT REQUIRED.
2. SLOPE SIDES OF EXCAVATION AS INDICATED OR COMPLY WITH LOCAL CODES AND ORDINANCES HAVING JURISDICTION, WHICHEVER IS MORE STRINGENT. SHORE AND BRACE WHERE SLOPING IS NOT POSSIBLE BECAUSE OF SPACE RESTRICTIONS OR STABILITY OF MATERIAL EXCAVATED.
3. STOCKPILE SATISFACTORY EXCAVATED MATERIALS UNTIL REQUIRED FOR BACKFILL OR FILL. PLACE, GRADE AND SHAPE STOCKPILES FOR PROPER DRAINAGE...
4. DISPOSE OF EXCESS SOIL AND UNSUITABLE SOIL MATERIAL OFF-SITE AS DIRECTED.
5. DEWATERING WILL LIKELY BE REQUIRED DURING EXCAVATION AND CONSTRUCTION. SEE CO.1 FOR DEWATERING NOTES.

DEWATERING NOTES

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING ALL EXCAVATIONS. ALL WATER GENERATED FROM DEWATERING OPERATIONS SHALL BE DISPOSED OF IN A MANNER AND LOCATION APPROVED BY THE TESC PLAN, CITY OF TACOMA, AND PORT OF TACOMA...
2. CONTRACTOR TO ANTICIPATE GROUNDWATER AND PROVIDE ALL EQUIPMENT NECESSARY TO DEWATER EXCAVATIONS...
3. ALL GROUNDWATER OR INCIDENTAL SURFACE RUNOFF COLLECTED SHALL BE DISCHARGED TO THE ON-SITE STORMWATER SYSTEM FOLLOWING APPROPRIATE TREATMENT UNTIL CONSTRUCTION IS COMPLETE.
4. NO SEDIMENT, TURBID WATER, OR OTHER POLLUTANTS (HEAVY METALS, OIL SHEEN, ETC.) SHALL BE DISCHARGED TO THE ON-SITE STORMWATER SYSTEM...
5. A LOG OF ALL DISCHARGED STORMWATER SHALL BE KEPT ON-SITE AT ALL TIMES DURING CONSTRUCTION...
6. ANY STORMWATER COLLECTED INTO A TRUCK SHALL NOT BE DISCHARGED TO THE STORMWATER SYSTEM.
7. THE CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FROM PORT OF TACOMA AND THEIR ENGINEERING CONSULTANT REPRESENTATIVES FOR ANY OFF-SITE DISPOSAL OF WATER, SEDIMENT, OR DEBRIS.

UTILITY NOTES

- 1. DETECTABLE MARKING TAPE SHALL BE INSTALLED ALONG THE FULL LENGTH OF EACH PROPOSED UTILITY...
2. ADJUST RIM OF ALL EXISTING UTILITIES WITHIN DISTURBED AREAS TO MATCH FINISH GRADE.
3. DISCOVERED ABANDONED UTILITIES SHALL BE REMOVED WHERE IN CONFLICT WITH NEW CONSTRUCTION...
3.1. UTILITY IS DEEPER THAN 3.5' FROM TOP TO FINISH GRADE AND,
3.2. PIPE >6" DIAMETER IS FILLED WITH LOW STRENGTH LEAN CONCRETE (CDF) AND CAPPED AT EXPOSED END...
3.3. AS-BUILT MEASUREMENTS ARE TAKEN TO DENOTE THE KNOWN TYPE, SIZE, AND EXTENT OF THE ABANDONED UTILITY AND REDLINED ON THE RECORD DRAWINGS.

SDEV25-0024



Table with columns: DCD, 11/22/24, CHECKED BY, DATE, DKM, 11/22/24, PROJ. ENGR, DATE, DonDavis, May 16, 2025, PORT ADDRESS: 802 PORT CENTER ROAD, TACOMA, WA 98421

APPROVED:

EBC MOTIVE TEMPORARY POWER

C0.1 SH # 3 OF 19

GENERAL NOTES

TOWNSHIP: 21 RANGE: 04 SECTION: 31 DATE: MLLW, 1983-2001 EPOCH DAT-HRZ: NAD83 VERT: MLLW, 1983-2001 EPOCH PORT: PARCEL 1B DRAWING SCALE: AS NOTED PHASE: ISSUED FOR CONST. PARCEL: AS NOTED



ISSUED FOR BID MAY 9, 2025



CIVIL | STRUCTURAL | ARCHITECTURAL | SURVEY 4815 CENTER STREET | TACOMA, WA 98409 PHONE: (253) 474-8449 | www.sittshill.com

Table with columns: Project No., Project Mgr., Proj. Engineer, Proj. Drafter

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PORT OF TACOMA FILE: C:\207000\20757\Drawings\20757 - C1.0



LEGEND

- PROPOSED FEATURES-**
- PROJECT LIMITS
 - ⊗ CATCH BASIN PROTECTION
 - - - SAWCUT
 - ////// FEATURE DEMOLITION, AS NOTED PER PLAN
 - ▨ FEATURE DEMOLITION, AS NOTED PER PLAN
 - ▩ SURFACE DEMOLITION

GENERAL NOTES

1. SEE SHEET C0.1 FOR GENERAL CIVIL NOTES.
2. BACKGROUND INFORMATION PROVIDED BY PORT OF TACOMA.
3. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES AFFECTING WORK.
4. CONTRACTOR SHALL PROTECT UTILITIES AND FEATURES ON-SITE NOT MARKED FOR REMOVAL AND REPAIR ANY DAMAGE AT NO COST. UTILITIES AND FEATURES INCLUDE, BUT ARE NOT LIMITED TO, THOSE RECORDED, LOCATED BEFORE CONSTRUCTION, OR DISCOVERED DURING CONSTRUCTION.
5. DEMOLISHED FEATURES SHALL BECOME THE PROPERTY OF THE CONTRACTOR, AND SHALL BE DISPOSED OF PER THE PROJECT PLANS AND SPECIFICATIONS.
6. ALL CLEAN EXCAVATED MATERIAL SHALL BE REUSED TO THE MAXIMUM EXTENT POSSIBLE IN TRENCH AND VAULT BACKFILL. EXCESS EXCAVATION SPOILS SHALL BE STORED IN A DESIGNATED SOIL STORAGE AREA AND COVERED WITH PLASTIC SHEETING PER DETAIL 2/C3.0. CONTRACTOR SHALL COORDINATE WITH ENGINEER WHERE TEMPORARY SOIL STORAGE AREA SHALL BE LOCATED ON-SITE. ANY EXCESS SPOILS NOT USED SHALL EVENTUALLY BE DISPOSED OF OFFSITE.
7. PROTECT VEGETATION NOT MARKED FOR REMOVAL IF VEGETATION REMOVAL IS REQUIRED FOR CONSTRUCTION, COORDINATE VEGETATION REMOVAL WITH ENGINEER.
8. CONTRACTOR RESPONSIBLE FOR MAINTAINING WORK AREA.
9. CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT TO PREVENT UTILITY INTERRUPTION.

KEY NOTES

1. SAWCUT TO FULL DEPTH.
2. REMOVE ASPHALT.
3. PROTECT UTILITY AS NOTED.
4. NOT USED.
5. INSTALL CATCH BASIN PROTECTION PER DETAIL 1/C3.0.
6. PROTECT FEATURE AS NOTED.
7. PREPARE NEW SUBSTATION YARD. REMOVE EXISTING CHAINLINK FENCING, GATES, ECOLOGY BLOCKS, AND OTHER MISCELLANEOUS SURFACE FEATURES. REMOVE EXISTING SURFACING, ASPHALT PAVEMENT, GRAVEL, LANDSCAPING, ETC. WALK SITE WITH PORT PRIOR TO CONSTRUCTION.
8. REMOVE EXISTING UTILITY VAULT COVER AND CONDUITS/CONDUCTORS. SEE PHOTOS 09-12 ON SHEET C4.0.
9. REMOVE APPROXIMATELY 5' OF EXISTING WATER SERVICE PIPE TO ACCOMMODATE INSTALLATION OF NEW SANITARY SEWER.
10. REMOVE EXISTING METAL SHED (30'Lx12'Wx10'H), REDUCED PRESSURE BACKFLOW PREVENTION VALVE, AND ASSOCIATED SURFACE FEATURES. SEE PHOTOS 01-04 AND 08 ON SHEET C4.0.
11. REMOVE LIDS OF TWO EXISTING VAULTS INSIDE THE SHED (4'Lx4'Wx4'H AND 9'Lx5'Wx6'H). SAWCUT THROUGH VAULTS AS NECESSARY TO ACCOMMODATE NEW SANITARY SEWER LINE. BACKFILL VAULTS WITH CLEAN EXCAVATION SPOILS PER GENERAL NOTE 6. SEE PHOTOS 05-07 ON SHEET C4.0.
12. REMOVE EXISTING DUCT BANK AND CONDUITS WHERE IN CONFLICT WITH PROPOSED DUCT BANK.
13. EXISTING VAULTS OUT OF SERVICE SHALL BE ABANDONED IN PLACE. REMOVE LIDS AND DISPOSE, BACKFILL WITH CLEAN EXCAVATED SPOILS. IF ROUTING PROPOSED CONDUITS AROUND VAULT(S) IS NOT FEASIBLE, VAULTS MAY BE SAWCUT AND DEMOLISHED TO ACCOMMODATE CONDUIT ROUTING THROUGH VAULT(S). SEE PHOTOS 09-12 ON SHEET C4.0.

SDEV25-0024



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|--------------------------------------|----------|----------------|--------------|
| DCD | 11/22/24 | CHECKED BY | DATE |
| DKM | 11/22/24 | PROJ. ENGR | DATE |
| APPROVED: <i>Shane Howard-Slipes</i> | | DIRECTOR ENGR. | DATE |
| PRINTED BY: DonDavis | | DATE | May 16, 2025 |
| PORT ADDRESS: 802 PORT CENTER ROAD | | TACOMA, WA | 98421 |

| | |
|-----------------------------------|----------------------------|
| EBC MOTIVE TEMPORARY POWER | |
| DEMOLITION AND TESC PLAN | |
| TOWNSHIP: 21 | RANGE: 03 |
| SECTION: 27 | DATE: MLW, 1983-2001 EPOCH |
| DAT-HRZ: NAD83 | VERT: MLW, 1983-2001 EPOCH |
| PROJECT: 20757 | PARCEL: PORT PACEL 1B |
| PHASE: ISSUED FOR CONST. | DRAWING SCALE: AS NOTED |

| | |
|--------------------------|----------------------------|
| C1.0 | SH # 4 OF 19 |
| PA: POT-PA-000000068 | TOWNSHIP: 21 |
| PROJ ID: 101686.01 | RANGE: 03 |
| PHASE: ISSUED FOR CONST. | SECTION: 27 |
| | DATE: MLW, 1983-2001 EPOCH |
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| | DAT-HRZ: NAD83 |
| | PARCEL: PORT PACEL 1B |
| | DRAWING SCALE: AS NOTED |

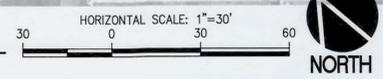


ISSUED FOR BID
MAY 9, 2025



| | | | |
|-----------------|-------|----------------|-----|
| Project No.: | 20757 | Project Mgr.: | DCD |
| Proj. Engineer: | DKM | Proj. Drafter: | DKM |

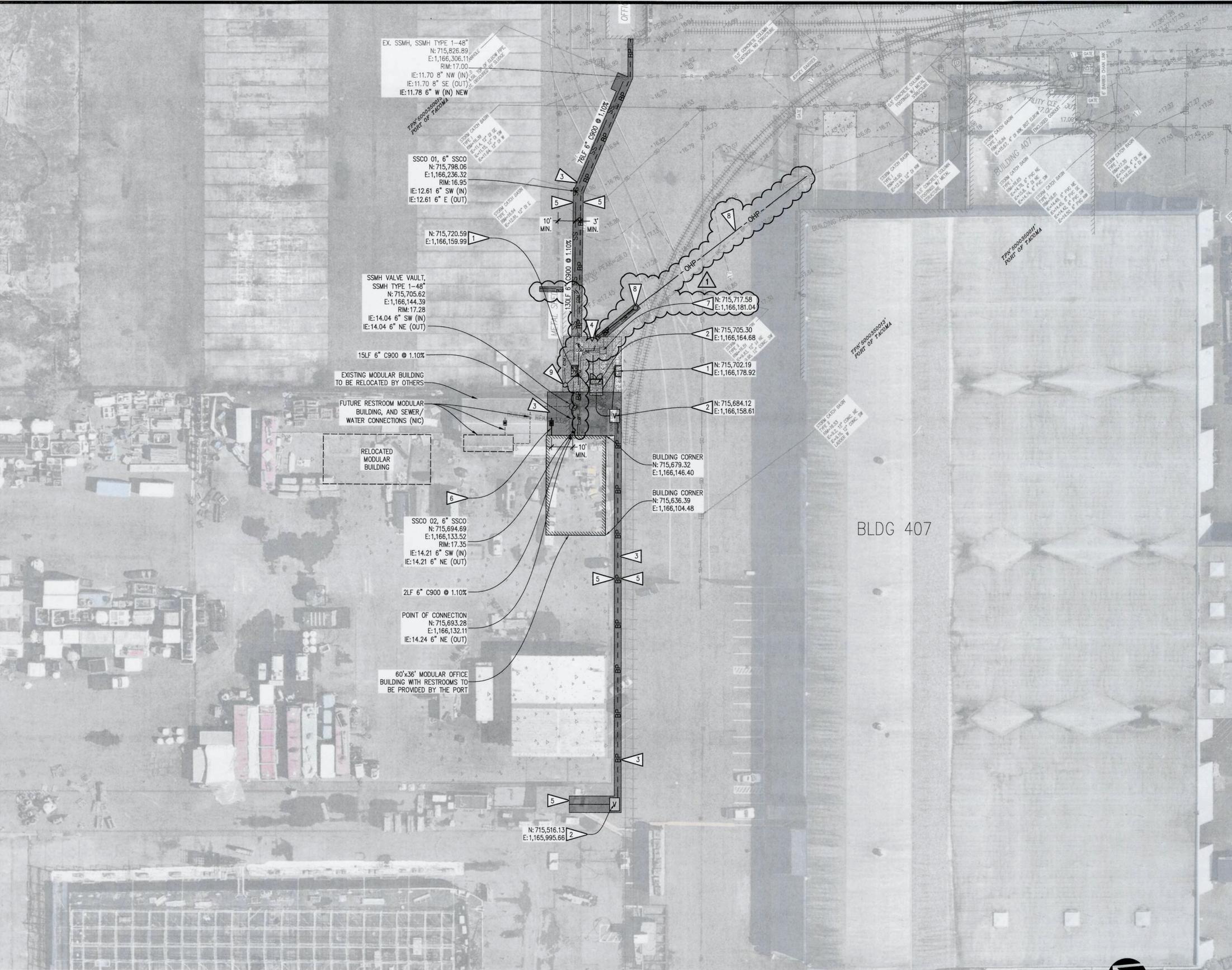
DEMOLITION AND TESC PLAN
SCALE: 1"=30'



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BINDING EDGE

PORT OF TACOMA FILE: O:\207000\20757\Drawings\20757 - C2.0



- LEGEND**
- PROPOSED FEATURES-**
- OHP --- OVERHEAD POWER, INSTALLED BY TPU
 - o POWER POLE, INSTALLED BY TPU
 - BP --- BURIED POWER, SEE SECTION 3/C3.0. ALSO SEE ELECTRICAL DRAWINGS
 - UTILITY POWER VAULT, PER ELECTRICAL DRAWINGS
 - UTILITY POWER RACK, PER ELECTRICAL DRAWINGS
 - COMMUNICATIONS VAULT, PER ELECTRICAL DRAWINGS
 - COM --- COMMUNICATIONS CONDUIT, PER ELECTRICAL DRAWINGS
 - SS --- SANITARY SEWER PIPE, SEE SECTION 7/C3.0
 - o SANITARY SEWER MANHOLE
 - o SANITARY SEWER CLEANOUT
 - W --- DOMESTIC WATER SERVICE, SEE SECTION 7/C3.0
 - ASPHALT PAVEMENT
 - CONCRETE SURFACING
 - CRUSHED ROCK SURFACING

- GENERAL NOTES**
- SEE SHEET C0.1 FOR GENERAL CIVIL NOTES.
 - BACKGROUND INFORMATION PROVIDED BY PORT OF TACOMA.
 - ALL DIMENSIONS AND RADII ARE TO THE FACE OF THE NOTED FEATURE, UNLESS OTHERWISE STATED. ALL LOCATIONS PROVIDED FOR STRUCTURES ARE TO THE CENTER OF THE STRUCTURE.
 - WHERE CONFLICTS OCCUR BETWEEN PLACEMENT OF NEW FEATURES AND EXISTING FEATURES, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE CONTRACTOR, AND WILL BE RESOLVED BY THE ENGINEER.
 - DUCT BANKS INSTALLED PER SECTION 3/C3.0
 - UTILITY STRUCTURES SHALL BE INSTALLED PER SECTION 8/C3.0.
 - PROPOSED WATER/SEWER PIPES TO BE INSTALLED PER SECTION 7/C3.0.

- KEY NOTES**
- CONCRETE FOUNDATION FOR POWER UTILITY RACK PER DETAIL 9/C3.0. ALSO COORDINATE WITH ELECTRICAL DRAWINGS.
 - POWER UTILITY VAULT PER ELECTRICAL DRAWINGS
 - ASPHALT PAVEMENT PER DETAIL 4/C3.0.
 - CRUSHED ROCK SURFACING PER DETAIL 6/C3.0. MATCH ELEVATIONS AND GRADES OF ADJACENT EXISTING PAVED SURFACES.
 - MATCH EXISTING ELEVATION, PAVEMENT JOINT PER 5/C3.0.
 - PROPOSED 3/4" DOMESTIC WATER CONNECTION TO NEW MOTIVE MARINE MODULAR OFFICE BUILDING. HOT TAP EXISTING DOMESTIC WATER LINE AND PROVIDE CORP STOP IN TRAFFIC RATED METER BOX OR ACCEPTED ALTERNATE. PREPARE WORK PLAN AND SUBMITTAL PACKAGE FOR ENGINEER REVIEW PRIOR TO PROCUREMENT AND INSTALLATION.
 - COMMUNICATIONS VAULT PER ELECTRICAL DRAWINGS.
 - OVERHEAD POWER/POLE INSTALLED BY TPU
 - POLE INSTALLED BY CONTRACTOR

SDEV25-0024

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)353-5841

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CIVIL | STRUCTURAL | ARCHITECTURAL | SURVEY
4815 CENTER STREET | TACOMA, WA 98409
PHONE: (253) 474-9449 | www.sitts-hill.com

MARK: REVISION: BY: DATE: 06/20/25



| | | | |
|----------------------------|----------|------------------------------------|------|
| DCD | 11/22/24 | CHECKED BY | DATE |
| DKM | 11/22/24 | PROJ. ENGR | DATE |
| DKM | 11/22/24 | DIRECTOR | DATE |
| APPROVED: <i>Don Davis</i> | | DIRECTOR | |
| PROJECT ENGR. DATE | | PORT ADDRESS: 802 PORT CENTER ROAD | |
| TACOMA, WA 98421 | | | |

EBC MOTIVE TEMPORARY POWER

| | |
|-------------------------|----------------------------|
| SURFACING PLAN | |
| TOWNSHIP: 21 | SECTION: 27 |
| RANGE: 03 | VERT: MLW, 1983-2001 EPOCH |
| PA: POT-PA-00000068 | DATE: 11/22/24 |
| PROJ ID: 101686.01 | PARCEL: PORT PACEL 1B |
| DRAWING SCALE: AS NOTED | |

C2.0
SH # 5 OF 19

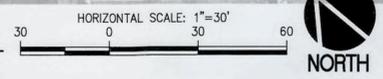
| | |
|---------------------|--------------------|
| Project No.: 20757 | Project Mgr.: DCD |
| Proj. Engineer: DKM | Proj. Drafter: DKM |

811 Call 811
two business days before you dig

REVISION #1
JUNE 20, 2025

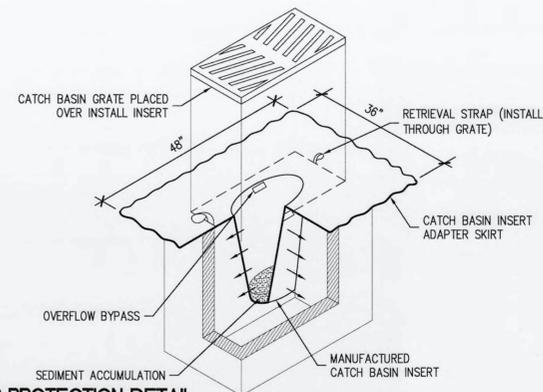
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PHONE: (253) 474-9449 | www.sitts-hill.com

SURFACING PLAN
SCALE: 1"=30'

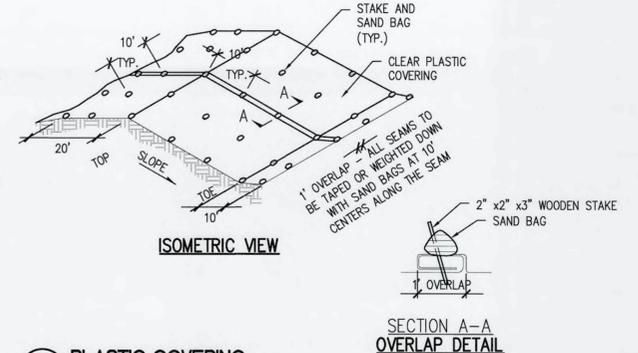


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BINDING EDGE

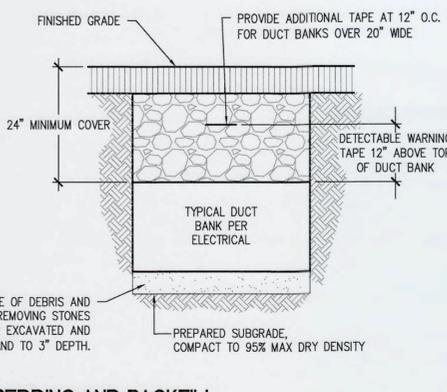


01 CB PROTECTION DETAIL
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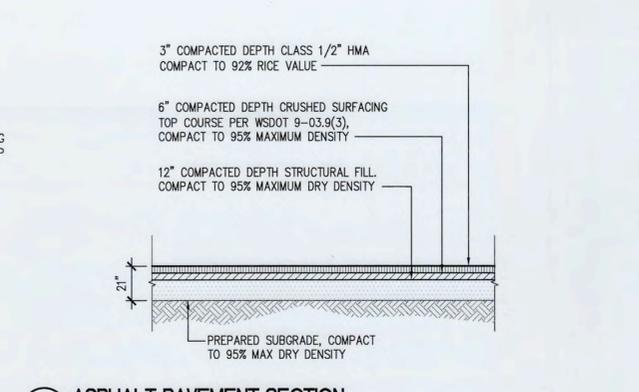


02 PLASTIC COVERING
SCALE: N.T.S.

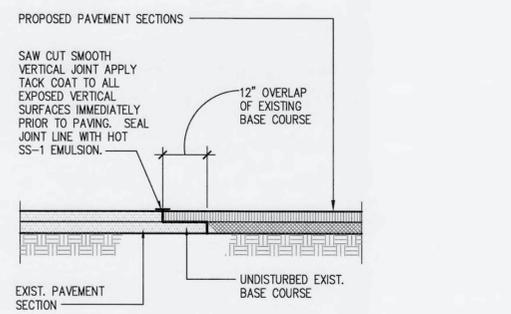
NOTES:
1) GRAVEL BACKFILL FOR PIPE ZONE BEDDING SHALL BE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS SECTION 9-03.12 (3).
2) PIPE ZONE BACKFILL IN STRUCTURAL AREAS SHALL BE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS SECTION 9-03.14(1).



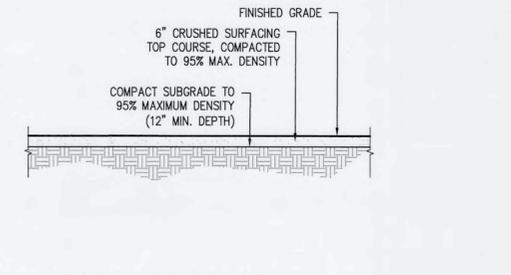
03 DUCT BANK BEDDING AND BACKFILL
SCALE: N.T.S.



04 ASPHALT PAVEMENT SECTION
SCALE: N.T.S.

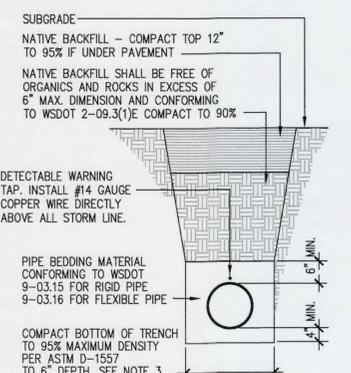


05 ASPHALT PAVEMENT JOINT SECTION
SCALE: N.T.S.

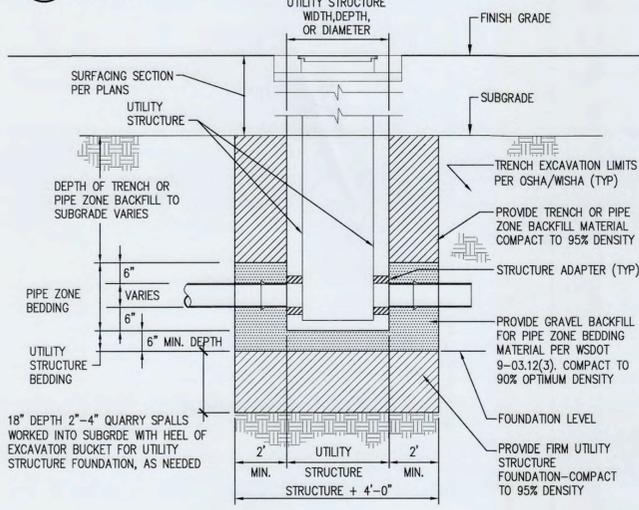


06 CRUSHED SURFACING TOP COURSE
SCALE: N.T.S.

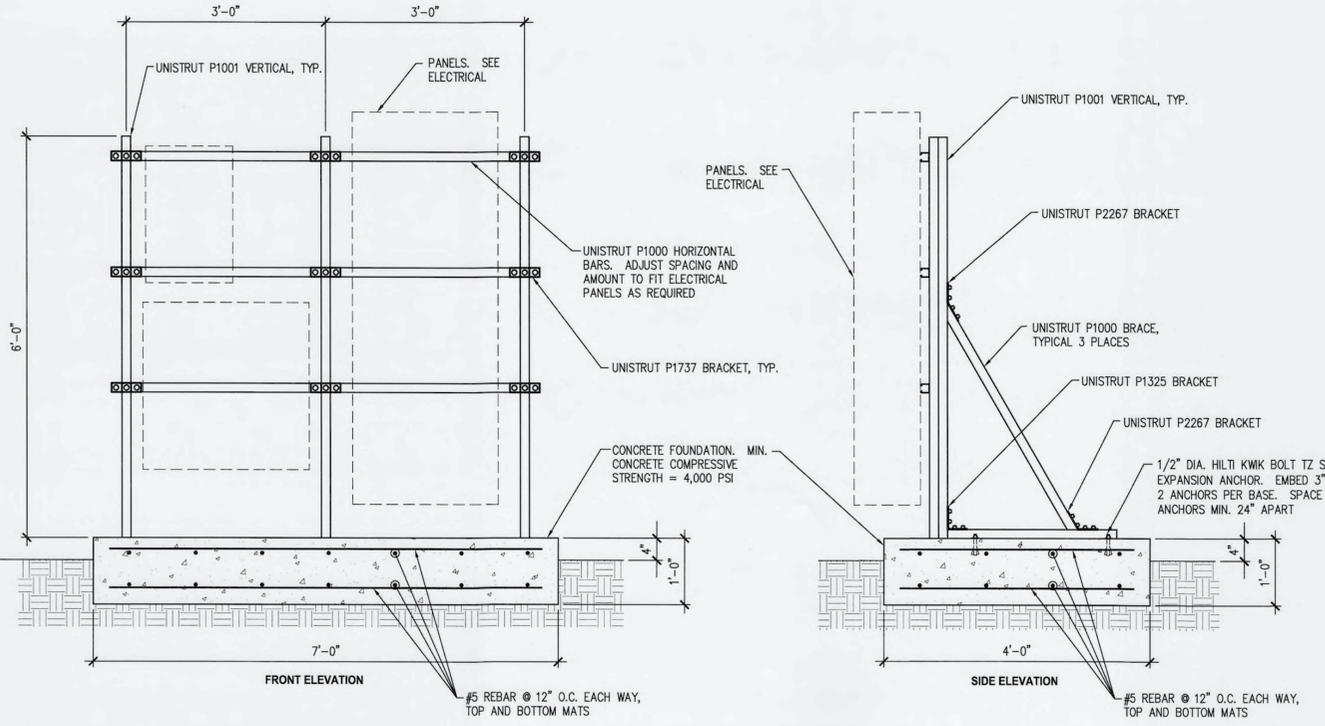
NOTES:
1. THE CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO COMMENCING WORK. ANY UTILITIES DAMAGED BY THE CONTRACTOR'S ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
CALL "ONE CALL" BURIED CABLE LOCATION SERVICE 1-800-424-5555 AT LEAST 2 DAYS BEFORE DIGGING.
2. SANITARY SEWER & WATER UTILITY WORK SHALL CONFORM TO CITY OF TACOMA STANDARDS.
3. SHOULD THE BOTTOM OF TRENCH NOT COMPACT TO 95% MAX. DENSITY, OVER-EXCAVATE PER ENGINEER'S FIELD RECOMMENDATIONS. INSTALL STRUCTURAL FILL & COMPACT IN 6\"/>



07 TYPICAL PIPE BEDDING
SCALE: N.T.S.



08 TYPICAL UTILITY STRUCTURE EXCAVATION, FOUNDATION, BEDDING AND BACKFILL DETAIL
SCALE: N.T.S.



09 TEMPORARY SERVICE MOUNT FOUNDATION
SCALE: N.T.S.

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ISSUED FOR BID
MAY 9, 2025



Project No.: 20,757 Project Mgr.: DCD
Proj. Engineer: DKM Proj. Drafter: DKM

C3.0
SH # 6 OF 19

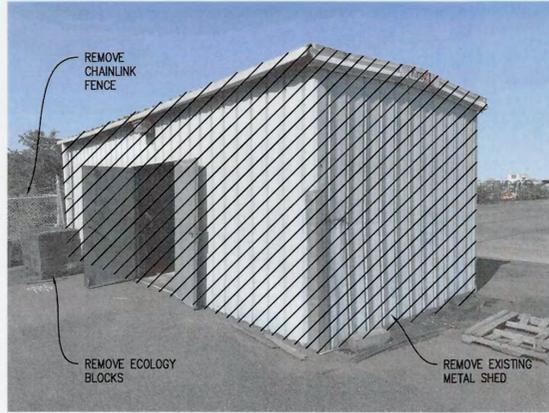
| | | | |
|------------------------------------|----------|----------------------------|------|
| DCD | 11/22/24 | CHECKED BY | DATE |
| DKM | 11/22/24 | PROJ. ENGR | DATE |
| APPROVED: | | DIRECTOR | |
| PRINTED BY: DonDavis | | MAY 16, 2025 | |
| PORT ADDRESS: 802 PORT CENTER ROAD | | TACOMA, WA 98421 | |
| CIVIL DETAILS | | RANGE: 03 SECTION: 27 | |
| TOWNSHIP: 21 | | VERT: MLW, 1983-2001 EPOCH | |
| DATE-HRZ: NAD83 | | PORT PAGES: 18 | |
| PARCEL: AS NOTED | | DRAWING SCALE: AS NOTED | |

SDEV25-0024

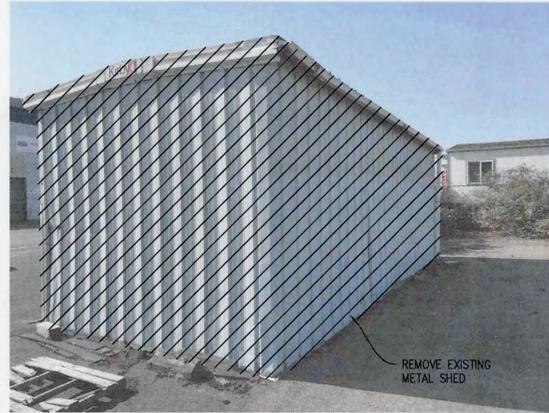


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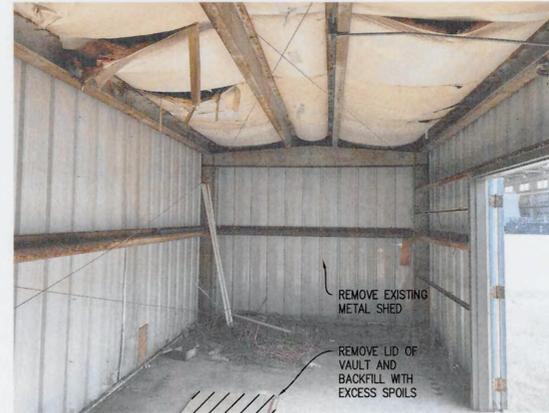
PORT OF TACOMA FILE: 0120700020757Drawings20757 - C3.0



01 METAL SHED (VIEW LOOKING NORTH)
SCALE: N.T.S.



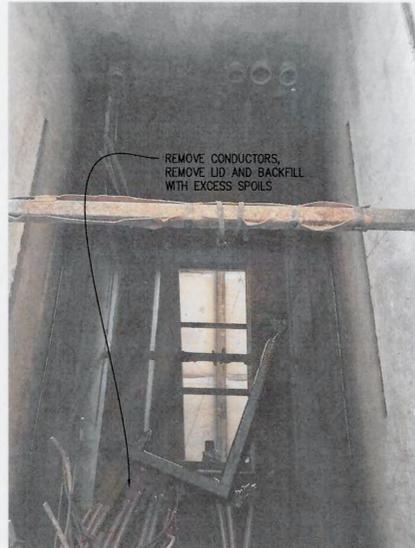
02 METAL SHED EXTERIOR (VIEW LOOKING SOUTH)
SCALE: N.T.S.



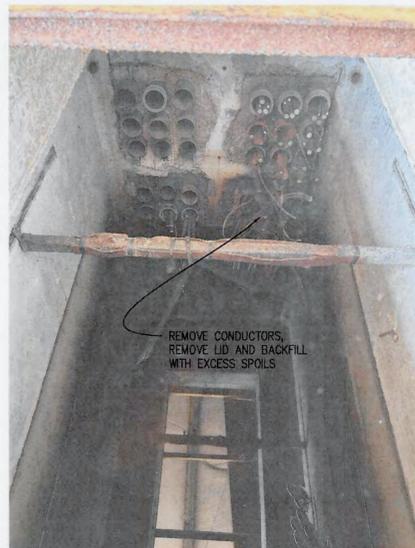
03 METAL SHED INTERIOR (VIEW LOOKING NORTHEAST)
SCALE: N.T.S.



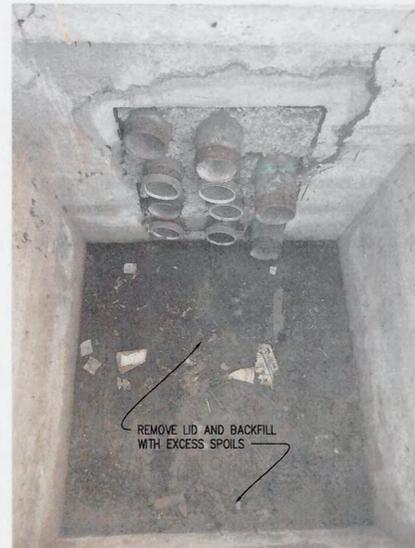
04 METAL SHED INTERIOR (VIEW LOOKING SOUTHWEST)
SCALE: N.T.S.



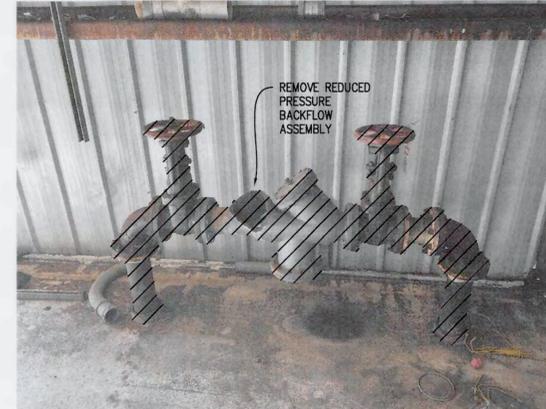
05 9'x5'x6' VAULT INSIDE METAL SHED
SCALE: N.T.S.



06 9'x5'x6' VAULT INSIDE METAL SHED
SCALE: N.T.S.



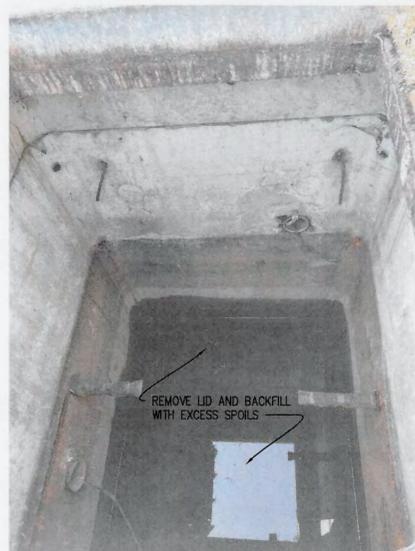
07 4'x4'x4' VAULT INSIDE METAL SHED
SCALE: N.T.S.



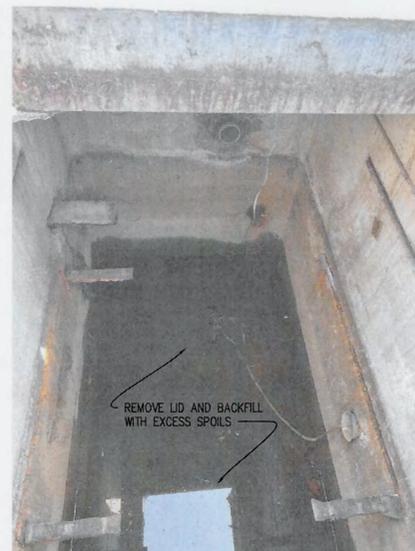
08 REDUCED PRESSURE BACKFLOW ASSEMBLY (INSIDE SHED)
SCALE: N.T.S.



09 SUBSTATION YARD EXISTING VAULTS (LOOKING N.E.)
SCALE: N.T.S.



10 9'x5'x6' EXISTING SUBSTATION VAULT
SCALE: N.T.S.



11 9'x5'x6' EXISTING SUBSTATION VAULT
SCALE: N.T.S.



12 SUBSTATION YARD EXISTING VAULTS (LOOKING WEST)
SCALE: N.T.S.

SDEV25-0024



| | | |
|----------------------|--|--------------|
| APPROVED: | DCD | 11/22/24 |
| CHECKED BY: | DKM | 11/22/24 |
| DIRECTOR ENGR. DATE: | DonDavis | May 16, 2025 |
| PRINTED BY: | 802 PORT CENTER ROAD, TACOMA, WA 98421 | |

| | | | |
|----------------------------|----------------------------|-------------------------|--|
| EBC MOTIVE TEMPORARY POWER | | | |
| CIVIL DETAILS | RANGE: 03 | SECTION: 27 | |
| TOWNSHIP: 21 | VERT: MLW, 1983-2001 EPOCH | DAT-HRZ: NAD83 | |
| PROJ ID: 101686.01 | PARCEL: PORT PACEL 1B | DRAWING SCALE: AS NOTED | |

C4.0 SH #7 OF 19

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Project No.: 20,757 Project Mgr.: DCD
Project Engineer: DKM Proj. Drafter: DKM

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| PLAN SYMBOLS | |
|---------------------------|--|
| | GROUND CABLE CONNECTION |
| | GROUND ROD CONNECTION |
| | GROUND CABLE PIGTAIL |
| | GROUND CABLE (UNDERGROUND) |
| | EQUIPMENT/STRUCTURAL GROUND CONNECTION |
| POWER | |
| | PANELBOARD, 208Y/120V, 3 PHASE |
| | PANELBOARD, 480V OR 480Y/277V, 3 PHASE |
| | EQUIPMENT IDENTIFICATION "X" DENOTES EQUIPMENT NUMBER "Y" DENOTES HP OR AMPS |
| | SPECIAL PANELBOARD/ENCLOSURE (TYPE AS NOTED) |
| | ENCLOSED CIRCUIT BREAKER DISCONNECT (SIZE AS NOTED) |
| | VARIABLE SPEED MOTOR STARTER |
| | SOLID STATE MOTOR STARTER |
| | DISCONNECT SWITCH (FUUSED OR UNFUUSED) SWITCH RATING/FUSE RATING |
| | MAGNETIC MOTOR STARTER (COMBINATION) |
| | TRANSFORMER (SIZE AS SHOWN, IN KVA) |
| | JUNCTION BOX |
| | ESTOP SWITCH - MAINTAINED |
| | VAULT |
| | PULL BOX |
| | HAND HOLE |
| | MAN HOLE |
| | OFF/ON SELECTOR SWITCH CONTROL STATION |
| | STOP-START PUSHBUTTON CONTROL STATION |
| | 460 VOLT MOTOR (SIZE AS NOTED) |
| | 208 VOLT OR 240 V MOTOR (SIZE AS NOTED) |
| | 115 VOLT MOTOR (SIZE AS NOTED) |
| CONDUIT & WIRE | |
| | CONDUIT SURFACE MOUNTED OR CONCEALED. |
| | CONDUIT SURFACE MOUNTED OR CONCEALED. "E" INDICATES EMERGENCY CIRCUIT. |
| | CONDUIT UNDERGROUND, UNDER FLOOR SLAB, OR IN CEILING SPACE OF FLOOR BELOW WITH CONDUCTORS AS ABOVE. |
| | CONDUIT ONLY. |
| | FLEXIBLE METAL CONDUIT. PROVIDE CIRCUIT CONDUCTORS REQUIRED BASED ON 60 DEGREE CELCIUS CONDUCTOR RATING. |
| | INDICATES PHASE CONDUCTOR (#12 OR SIZE AS NOTED) |
| | INDICATES NEUTRAL CONDUCTOR (#12 OR SIZE AS NOTED) |
| | INDICATES GROUND CONDUCTOR (#12 OR SIZE AS NOTED) |
| | INDICATES ISOLATED GREEN GROUND CONDUCTOR (#12 OR SIZE AS NOTED) |
| | #10 HOMERUN W/7#10 SHOWING CIRCUIT SOURCE (PANEL/PANEL POSITION) |
| | HOMERUN W/CIRCUIT SOURCE & CONDUIT & WIRE SIZE NOTED 1B2-8/1,3,5 1-1/2"C.3#2+#2/ON+2#8G |

| WIRING DIAGRAM SYMBOLS | |
|----------------------------|---|
| | SINGLE LINE TRANSFORMER (DASHED LINE INDICATES ELECTROSTATIC SHIELD) |
| | SURGE ARRESTER |
| | CIRCUIT BREAKER (DRAW-OUT TYPE) |
| | POTENTIAL TRANSFORMER QUANTITY & RATIO AS SHOWN 2 480:120 |
| | CURRENT TRANSFORMER QUANTITY & RATIO AS SHOWN 3 800:5 |
| | AMMETER w/SWITCH |
| | VOLTMETER w/SWITCH |
| | WATT HOUR METER |
| | 480V OR 480Y/277V PANELBOARD (RATINGS AS NOTED) E19-1 400 A M. BKR. 3 PH, 4 W |
| | 208V OR 208Y/120V PANELBOARD (RATINGS AS NOTED) E19-3 225 A M. BKR. 3 PH, 4 W |
| COMBINATION STARTER | |
| | CONTROLLER OR MCC CUBICLE NUMBER |
| | STARTER SIZE |
| | POWER FACTOR CORRECTION CAPACITOR (IF REQUIRED) |
| | MOTOR HORSEPOWER |
| | THERMO MAGNETIC CIRCUIT BREAKER |
| | MAGNETIC ONLY CIRCUIT BREAKER |
| VFD | |
| | VFD |
| | HP |

| WIRING DIAGRAM SYMBOLS | |
|------------------------|--|
| | DISCONNECT SWITCH |
| | FUSE |
| | CIRCUIT BREAKER |
| | TRANSFORMER |
| | GROUND CONNECTION |
| | PILOT LIGHT * INDICATES COLOR |
| | FUSED SWITCH |
| | M.V. DISCONNECT SWITCH |
| | (NF OPTION) L.V. DISCONNECT SWITCH NF (NON FUSED) SWITCH RATING |
| | INTERLOCK K=KEY M=MECHANICAL E=ELECTRICAL |
| | FEEDER TYPE DESIGNATION |
| | AVAILABLE FAULT CURRENT (CLOSED TRANSITION/NORMAL) |
| | EQUIPMENT AIC RATING |
| | APPROXIMATE FEEDER LENGTH IN FEET TO BE CONFIRMED LATER. |

| ABBREVIATIONS | |
|---------------|---|
| AF | FRAME RATING IN AMPS |
| AFF | ABOVE FINISHED FLOOR |
| AHU | AIR HANDLING UNIT |
| AL | ALUMINUM |
| AT | TRIP RATING IN AMPS |
| AWG | AMERICAN WIRE GAUGE |
| BKR | CIRCUIT BREAKER |
| C | CONDUIT |
| CMCS | CENTRAL MANAGEMENT CONTROL SYSTEM |
| CO | CONDUIT ONLY |
| CT | CURRENT TRANSFORMER |
| CU | COPPER |
| DED | DEDICATED |
| DWG | DRAWING |
| EF | EXHAUST FAN |
| EMT | ELECTRICAL METALLIC TUBING |
| EUSERC | ELECTRIC UTILITY SERVICE EQUIPMENT REQUIREMENTS COMMITTEE |
| FVNR | FULL VOLTAGE, NON-REVERSING |
| GFCI | GROUND FAULT INTERRUPTER |
| GND | GROUND |
| GRC | GALVANIZED RIGID (CONDUIT) |
| HP | HORSEPOWER |
| IMC | INTERMEDIATE METAL CONDUIT |
| kcMIL | THOUSAND CIRCULAR MILS |
| LV | LOW VOLTAGE |
| M.BKR. | MAIN BREAKER |
| MCC | MOTOR CONTROL CENTER |
| MLO | MAIN LUGS ONLY |
| NEC | NATIONAL ELECTRICAL CODE |
| N/A | NOT APPLICABLE |
| NC | NORMALLY CLOSED |
| NO | NORMALLY OPEN |
| PH | PHASE |
| PNL | PANEL |
| PT | POTENTIAL (VOLTAGE) TRANSFORMER |
| PVC | POLY-VINYL CHLORIDE (CONDUIT) |
| SWBD | SWITCHBOARD |
| SWGR | SWITCHGEAR |
| ST | SHUNT TRIP |
| TBD | TO BE DETERMINED |
| THHN | WIRE INSULATION TYPE REFER TO N.E.C. |
| THWN | WIRE INSULATION TYPE REFER TO N.E.C. |
| TP | TACOMA POWER |
| TPU | TACOMA PUBLIC UTILITIES |
| T/S | TWISTED & SHIELDED |
| UC | UNDERGROUND |
| VFD | VARIABLE FREQUENCY DRIVE |
| WP | WEATHER PROTECTED |
| XFMR | TRANSFORMER |
| XHHW | WIRE INSULATION TYPE REFER TO N.E.C. |
| XP | EXPLOSION-PROOF |

ISSUE FOR BID
MAY 9, 2025

CASNE Engineering
3545 FACTORIA BOULEVARD SE., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 www.casne.com

Port of Tacoma
P.O. BOX 1887 TACOMA, WA 98401 (253)384-5841

CEC 04/8/25
CHECKED BY: [Signature]
DATE: AA 04/8/25

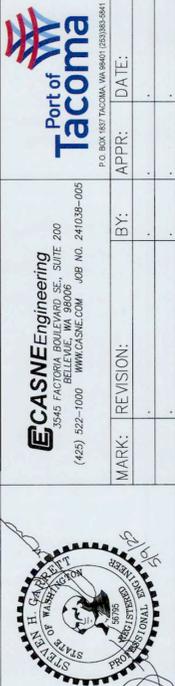
PROJ. ENGR: [Signature]
DATE: May 09, 2025
PRINTED BY: steven.garrett
PORT ADDRESS: 401 East Alexander Ave
TACOMA, WA 98421

6709 E0.0
SH# 8 OF 19

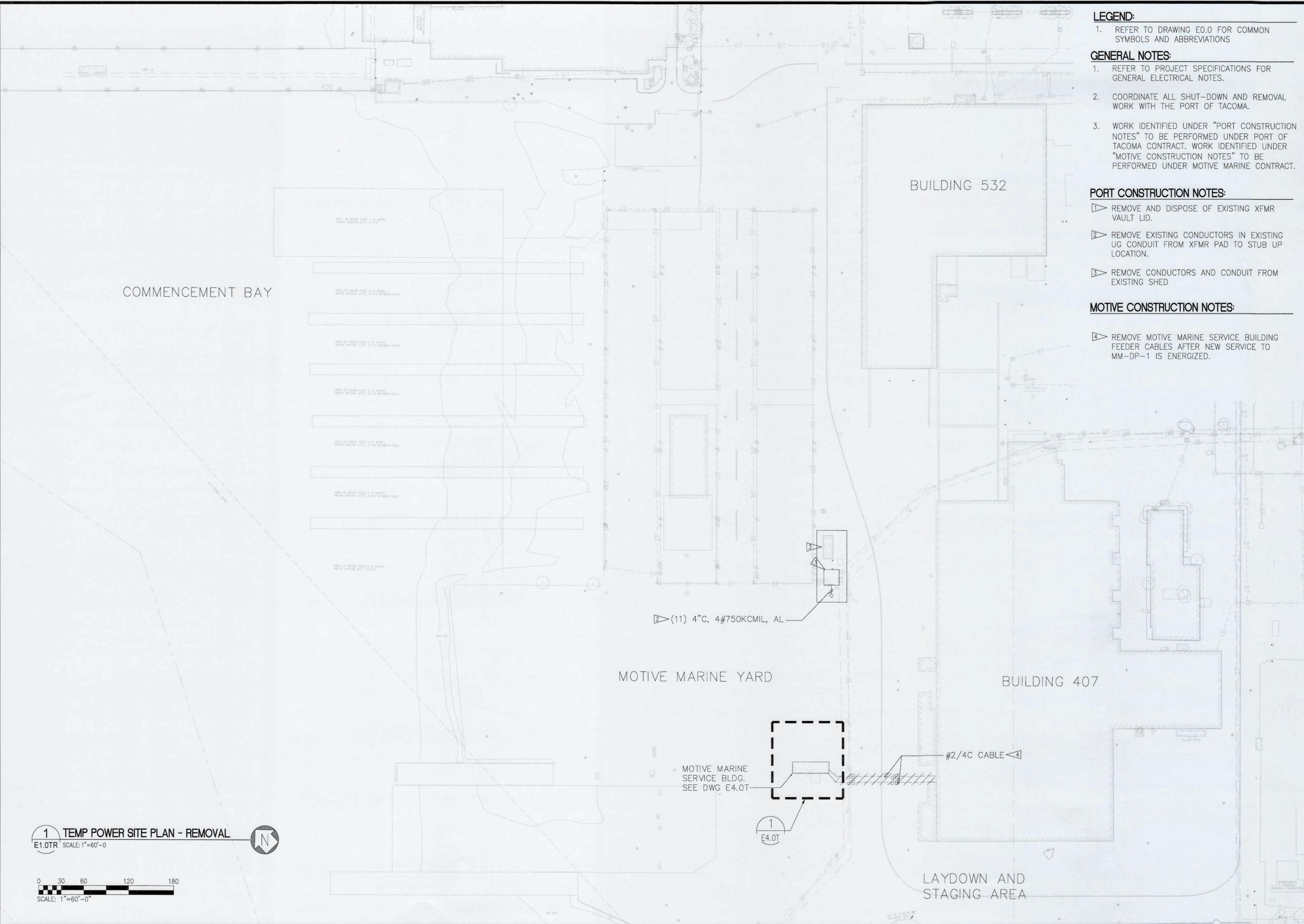
EBC MOTIVE TEMPORARY POWER
ELECTRICAL LEGENDS & SYMBOLS

PA: POT-PA-000000068
PROJ. ID: 101686.01
PHASE: ISSUE FOR BID

TOWNSHIP: 21
RANGE: 03
SECTION: 27
DATE-HRZ: . NAD83
VERT: MLW, 1983-2001 EPOCH
PARCEL: PORT PARCEL 1B
DRAWING SCALE: AS NOTED



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- LEGEND:**
- REFER TO DRAWING E0.0 FOR COMMON SYMBOLS AND ABBREVIATIONS
- GENERAL NOTES:**
- REFER TO PROJECT SPECIFICATIONS FOR GENERAL ELECTRICAL NOTES.
 - COORDINATE ALL SHUT-DOWN AND REMOVAL WORK WITH THE PORT OF TACOMA.
 - WORK IDENTIFIED UNDER "PORT CONSTRUCTION NOTES" TO BE PERFORMED UNDER PORT OF TACOMA CONTRACT. WORK IDENTIFIED UNDER "MOTIVE CONSTRUCTION NOTES" TO BE PERFORMED UNDER MOTIVE MARINE CONTRACT.

- PORT CONSTRUCTION NOTES:**
- REMOVE AND DISPOSE OF EXISTING XFMR VAULT LID.
 - REMOVE EXISTING CONDUCTORS IN EXISTING UG CONDUIT FROM XFMR PAD TO STUB UP LOCATION.
 - REMOVE CONDUCTORS AND CONDUIT FROM EXISTING SHED
- MOTIVE CONSTRUCTION NOTES:**
- REMOVE MOTIVE MARINE SERVICE BUILDING FEEDER CABLES AFTER NEW SERVICE TO MM-DP-1 IS ENERGIZED.

ISSUE FOR BID
MAY 9, 2025

CASME Engineering
506 PACIFIC BLVD., SUITE 200
BELLEVUE, WA 98006
(425) 522-1000 WWW.CASME.COM JOB NO. 241038-005

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401

MARK: REVISION: BY: APPR: DATE:



APPROVED: *Steven H. Garrett*
DIRECTOR ENGR. DATE: 02/18/25

CHECKED BY: AA DATE: 02/18/25
DATE: 02/18/25

PRINTED BY: steven.garrett May 09, 2025
PORT ADDRESS: 401 EAST ALEXANDER AVE
TACOMA, WA 98421

EBC MOTIVE TEMPORARY POWER

TEMPORARY POWER SITE PLAN - REMOVAL

RANGE: 03 SECTION: 27
TOWNSHIP: 21 VERT: MLW, 1983-2001 EPOCH
DATE-HRZ: NAD83
PARCEL: PORT PARCEL 1B DRAWING SCALE: AS NOTED

6709
E1.0TR
SH# 9 OF 19

PA: POT-PA-00000068
PROJ. ID: 101686.01
PHASE: ISSUE FOR BID

1 TEMP POWER SITE PLAN - REMOVAL
E1.0TR SCALE: 1"=60'-0"

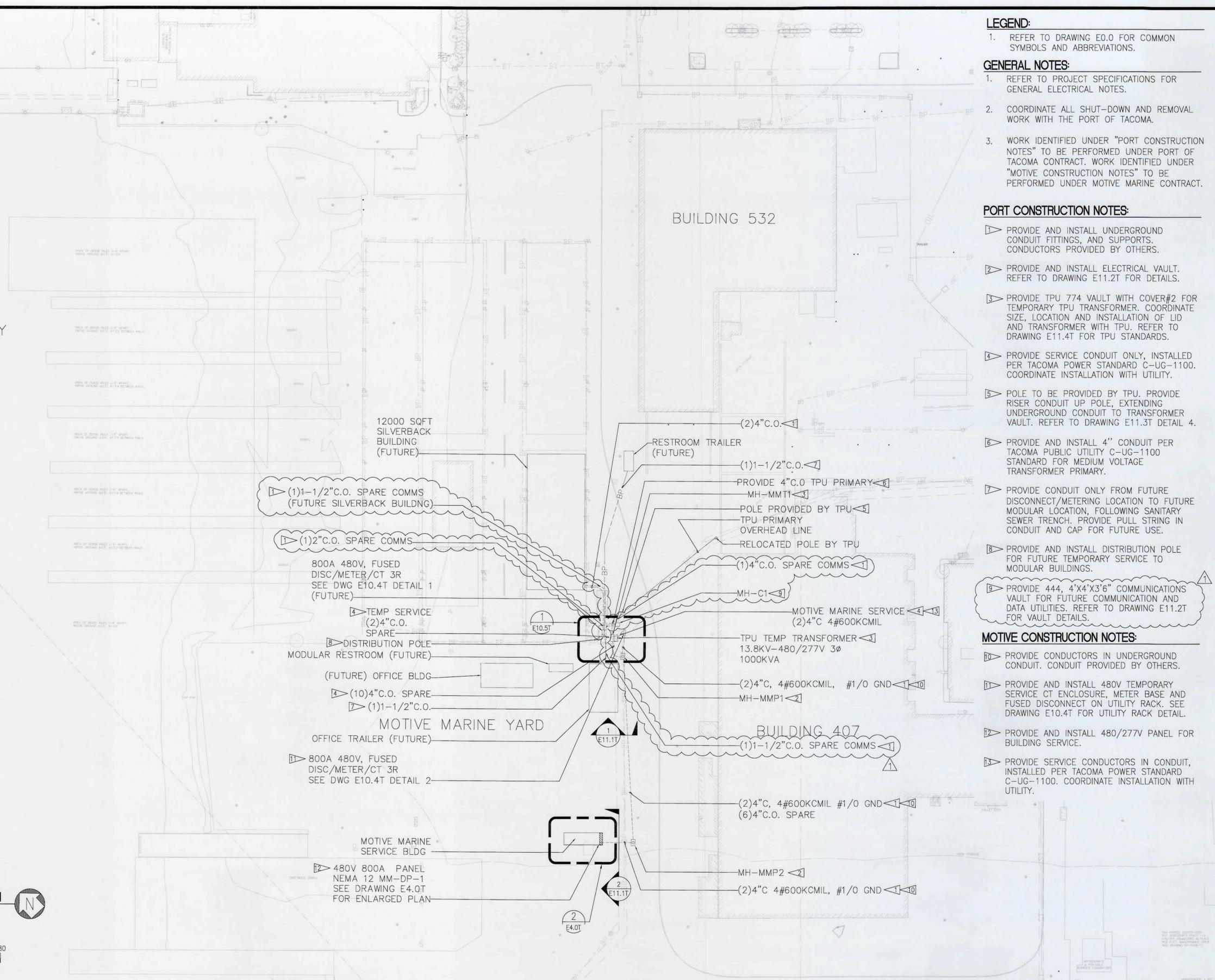


1 TEMP POWER SITE PLAN

E1.0T SCALE: 1"=60'-0"



COMMENCEMENT BAY



LEGEND:

1. REFER TO DRAWING E0.0 FOR COMMON SYMBOLS AND ABBREVIATIONS.

GENERAL NOTES:

1. REFER TO PROJECT SPECIFICATIONS FOR GENERAL ELECTRICAL NOTES.
2. COORDINATE ALL SHUT-DOWN AND REMOVAL WORK WITH THE PORT OF TACOMA.
3. WORK IDENTIFIED UNDER "PORT CONSTRUCTION NOTES" TO BE PERFORMED UNDER PORT OF TACOMA CONTRACT. WORK IDENTIFIED UNDER "MOTIVE CONSTRUCTION NOTES" TO BE PERFORMED UNDER MOTIVE MARINE CONTRACT.

PORT CONSTRUCTION NOTES:

- 1. PROVIDE AND INSTALL UNDERGROUND CONDUIT FITTINGS, AND SUPPORTS. CONDUCTORS PROVIDED BY OTHERS.
- 2. PROVIDE AND INSTALL ELECTRICAL VAULT. REFER TO DRAWING E11.2T FOR DETAILS.
- 3. PROVIDE TPU 774 VAULT WITH COVER#2 FOR TEMPORARY TPU TRANSFORMER. COORDINATE SIZE, LOCATION AND INSTALLATION OF LID AND TRANSFORMER WITH TPU. REFER TO DRAWING E11.4T FOR TPU STANDARDS.
- 4. PROVIDE SERVICE CONDUIT ONLY, INSTALLED PER TACOMA POWER STANDARD C-UG-1100. COORDINATE INSTALLATION WITH UTILITY.
- 5. POLE TO BE PROVIDED BY TPU. PROVIDE RISER CONDUIT UP POLE, EXTENDING UNDERGROUND CONDUIT TO TRANSFORMER VAULT. REFER TO DRAWING E11.3T DETAIL 4.
- 6. PROVIDE AND INSTALL 4" CONDUIT PER TACOMA PUBLIC UTILITY C-UG-1100 STANDARD FOR MEDIUM VOLTAGE TRANSFORMER PRIMARY.
- 7. PROVIDE CONDUIT ONLY FROM FUTURE DISCONNECT/METERING LOCATION TO FUTURE MODULAR LOCATION, FOLLOWING SANITARY SEWER TRENCH. PROVIDE PULL STRING IN CONDUIT AND CAP FOR FUTURE USE.
- 8. PROVIDE AND INSTALL DISTRIBUTION POLE FOR FUTURE TEMPORARY SERVICE TO MODULAR BUILDINGS.
- 9. PROVIDE 444, 4"x4"x3'6" COMMUNICATIONS VAULT FOR FUTURE COMMUNICATION AND DATA UTILITIES. REFER TO DRAWING E11.2T FOR VAULT DETAILS.

MOTIVE CONSTRUCTION NOTES:

- 1. PROVIDE CONDUCTORS IN UNDERGROUND CONDUIT. CONDUIT PROVIDED BY OTHERS.
- 2. PROVIDE AND INSTALL 480V TEMPORARY SERVICE CT ENCLOSURE, METER BASE AND FUSED DISCONNECT ON UTILITY RACK. SEE DRAWING E10.4T FOR UTILITY RACK DETAIL.
- 3. PROVIDE AND INSTALL 480/277V PANEL FOR BUILDING SERVICE.
- 4. PROVIDE SERVICE CONDUCTORS IN CONDUIT, INSTALLED PER TACOMA POWER STANDARD C-UG-1100. COORDINATE INSTALLATION WITH UTILITY.

REVISION #1
JUNE 20, 2025



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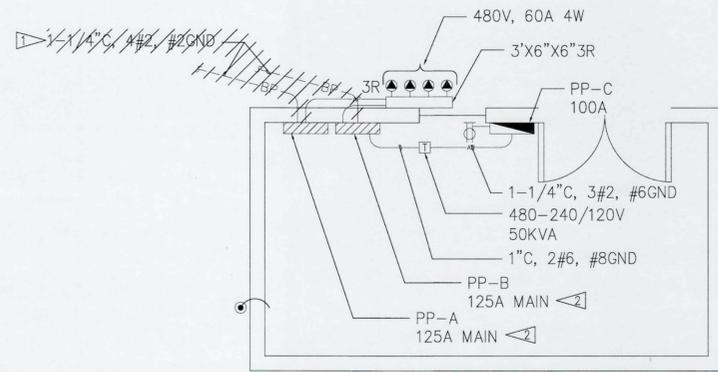


CEC 04/8/25
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DATE: 04/8/25
DIRECTOR ENG. DATE: IPRJ.
PRINTED BY: steven.garrett
PORT ADDRESS: 401 East Alexander Ave
TACOMA, WA 98421

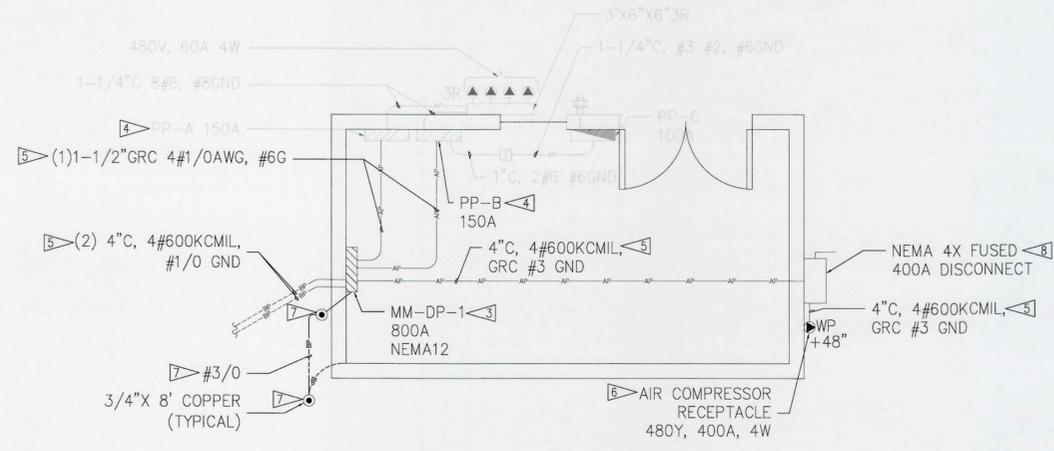
EBC MOTIVE TEMPORARY POWER
TEMPORARY POWER SITE PLAN
RANGE: 03 SECTION: 27
TOWNSHIP: 21
DATE-HRZ: . NAD83
VERT: MLW, 1983-2001 EPOCH
DRAWING SCALE: AS NOTED

6709 E1.0T
SH# 10 OF 19
PA: POT-PA-000000068
PROJ. ID: 101686.01
PHASE: ISSUE FOR BID

DATE: 06/20/25
APPR: SHG
BY: SHG
REVISION #1 - COMM VAULT



1 SERVICE BUILDING 480V PLAN-REMOVAL
E4.0T SCALE: 1/4" = 1'-0"



2 SERVICE BUILDING 480V PLAN
E4.0T SCALE: 1/4" = 1'-0"

LEGEND:

- 1. REFER TO DRAWING E0.0 FOR COMMON SYMBOLS AND ABBREVIATIONS
- 480V 3Ø PANELBOARD
- 240/120V 1Ø PANEL
- TRANSFORMER
- 480V SPECIALTY RECEPTACLE
- 120V DUPLEX RECEPTACLE
- 120V QUADPLEX RECEPTACLE
- GROUNDING ROD

GENERAL NOTES:

1. REFER TO PROJECT SPECIFICATIONS FOR GENERAL ELECTRICAL NOTES.
2. REFER TO DRAWINGS E1.0TR FOR SITE PLAN REMOVAL AND E1.0T FOR SITE PLAN.
3. "PORT CONSTRUCTION NOTES" APPLY TO WORK TO BE PERFORMED UNDER THE PORT OF TACOMA CONTRACT.
4. "MOTIVE CONSTRUCTION NOTES" APPLY TO WORK TO BE PERFORMED UNDER THE MOTIVE MARINE CONTRACT.

PORT CONSTRUCTION NOTES:

1. NO WORK SHOWN.

MOTIVE CONSTRUCTION NOTES:

- 1. REMOVE ELECTRICAL FEEDERS TO BUILDING ONCE NEW 800A SERVICE MM-DP-1 IS ENERGIZED.
- 2. REMOVE 125A MAIN BREAKER TO MAKE SPACE FOR 150A MAIN BREAKER.
- 3. PROVIDE AND INSTALL PANEL MM-DP-1.
- 4. PROVIDE AND INSTALL NEW 150A MAIN BREAKERS AT PP-A AND PP-B.
- 5. PROVIDE AND INSTALL CONDUIT, BOXES, FITTINGS, SUPPORTS AND CONDUCTORS.
- 6. PROVIDE 400A 480V 4W RECEPTACLE FOR AIR COMPRESSOR.
- 7. PROVIDE SUPPLEMENTAL GROUND ROD AND #3/0 GROUND ELECTRODE AT BUILDING SERVICE.
- 8. PROVIDE NEMA 4X FUSED DISCONNECT SIZED AS SHOWN.

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MAY 9, 2025



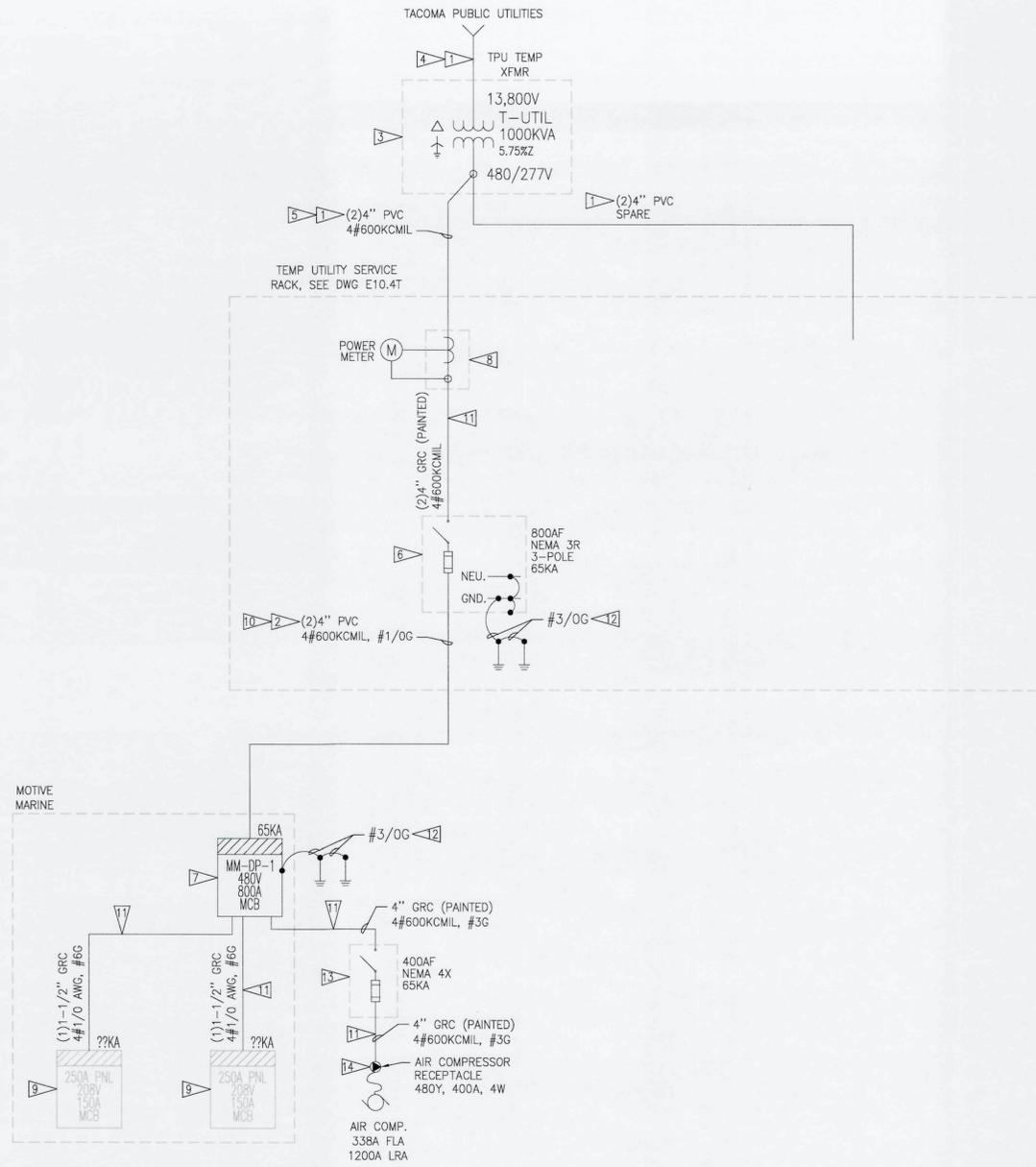
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| PROJECT ENGR | DATE |
| PROJECT ENGR | DATE |
| PRINTED BY: steven.garrett | May 09, 2025 |
| PORT ADDRESS: 401 East Alexander Ave | |
| TACOMA, WA 98421 | |

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| APPROVED: | |
| <i>Steven Garrett</i> | |
| DIRECTOR ENGR. DATE | |
| PROJECT ENGR. DATE | |
| PRINTED BY: steven.garrett | |
| PORT ADDRESS: 401 East Alexander Ave | |
| TACOMA, WA 98421 | |

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|----------------------|---|
| 6709 | EBC MOTIVE TEMPORARY POWER |
| SH# 11 OF 19 | MOTIVE MARINE SERVICE BLDG. ENLARGED PLAN |
| PA: POT-PA-000000068 | TOWNSHIP: 21 |
| PROJ. ID: 101686.01 | RANGE: 03 |
| PHASE: ISSUE FOR BID | DATE-HRZ: . NAD83 |
| | VERT: MLW, 1983-2001 EPOCH |
| | PARCEL: [DRAWING SCALE: AS NOTED] |



1 TEMPORARY ONE-LINE DIAGRAM
E10.0T SCALE: NONE

LEGEND:

- REFER TO DRAWING E0.0 FOR COMMON SYMBOLS AND ABBREVIATIONS.

GENERAL NOTES:

- REFER TO PROJECT SPECIFICATIONS FOR GENERAL ELECTRICAL NOTES.
- "PORT CONSTRUCTION NOTES" APPLY TO WORK TO BE PERFORMED UNDER THE PORT OF TACOMA CONTRACT.
- "MOTIVE CONSTRUCTION NOTES" APPLY TO WORK TO BE PERFORMED UNDER THE MOTIVE MARINE CONTRACT.

PORT CONSTRUCTION NOTES:

- PROVIDE SERVICE CONDUIT PER TACOMA PUBLIC UTILITY STANDARDS. COORDINATE INSTALLATION WITH TACOMA PUBLIC UTILITIES.
- PROVIDE CONDUIT ONLY. CONDUCTORS PROVIDED BY OTHERS.
- COORDINATE INSTALLATION OF TRANSFORMER WITH TACOMA POWER.
- CONDUCTORS PROVIDED BY TACOMA POWER.

MOTIVE CONSTRUCTION NOTES:

- PROVIDE CONDUCTORS IN CONDUIT PER TACOMA PUBLIC UTILITY STANDARDS. COORDINATE INSTALLATION WITH TACOMA PUBLIC UTILITIES.
- PROVIDE NEMA 3R SERVICE ENTRANCE RATED FUSED DISCONNECT WITH CLASS L 800A FUSES.
- PROVIDE PANELBOARD WITH RATINGS AS SHOWN, PER SPECIFICATION 26-24-16. SEE PANEL SCHEDULE ON E10.2 FOR DETAILS.
- PROVIDE UTILITY INSTRUMENT METERING SOCKET AND 800A CT ENCLOSURE PER TACOMA PUBLIC UTILITIES STANDARD.
- EXISTING PANEL TO BE RE-FED FROM NEW SOURCE. PROVIDE 150A MAIN BREAKER IN PLACE OF EXISTING 125A.
- PROVIDE CONDUCTORS AS SHOWN. CONDUIT PROVIDED BY OTHERS.
- PROVIDE CONDUCTORS, CONDUITS, FITTINGS, SUPPORTS AND ANCILLARY HARDWARE.
- PROVIDE SERVICE GROUND RODS, GROUNDING ELECTRODE CONDUCTOR, AND BONDING HARDWARE.
- PROVIDE NEMA 4X FUSED DISCONNECT WITH RATINGS AS SHOWN.
- PROVIDE 400A RECEPTACLE. COORDINATE RECEPTACLE TYPE WITH MOTIVE POWER MARINE.

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MAY 9, 2025



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BELLEVUE, WA 98005
(425) 522-1000 WWW.CASNE.COM JOB NO. 24103E-005

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| CHECKED BY: | DATE: |
| AA | 04/8/25 |
| PROJ. ENGR: | DATE: |
| steven.garrett | May 09, 2025 |

APPROVED: *Steven Garrett*
DIRECTOR
PRINTED BY: steven.garrett
PORT ADDRESS: 401 East Alexander Ave
TACOMA, WA 98421

| | | |
|--|---------------------------------------|----------------------------|
| 6709 E10.0T SH# 12 OF 19 | EBC MOTIVE TEMPORARY POWER | |
| | TEMPORARY ELECTRICAL ONE-LINE DIAGRAM | |
| P.A: | TOWNSHIP: 21 | SECTION: 27 |
| PROJ. ID: 101686.01 | RANGE: 03 | DATE: M.W. 1983-2001 EPOCH |
| PHASE: ISSUE FOR BID | DATE: M.W. 1983-2001 EPOCH | PARCEL: PORT PARCEL 1B |
| | | DRAWING SCALE: AS NOTED |

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| MM-DP-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------|------------|-----------|---|-----------|---|-------|---------------|---|---|--------|--|-------|-----------|---------------------|-----------|------------|-------------------------------------|--------|--|--|--|--|---|--|--|--|--|--|
| VOLTS: 480/277V PH & WIRE: 3Ø, 4W BUS RATING: 800 Amp | | | | | | MAIN BREAKER: 800A 100% Rtd PANEL AIC RATING: 65 kA FED FROM: MDS-1 | | | | | | FEEDER CONDUCTORS: (2) sets 4 #600, 1/0 G MOUNTING: SURFACE ENCLOSURE: NEMA 12 | | | | | | SURGE PROTECTOR: NO ACCESSORIES: | | | | | | INSTALL DATE: TBD REV. VERSION: ORIGINAL REV. DATE: 10/8/2024 | | | | | |
| CKT. # | BKR. AMPS | BKR. POLES | WIRE SIZE | CIRCUIT DESCRIPTION | LOAD TYPE | LOAD (KVA) | NOTES | CIRCUIT PHASE | | | CKT. # | BKR. AMPS | POLES | WIRE SIZE | CIRCUIT DESCRIPTION | LOAD TYPE | LOAD (KVA) | NOTES | CKT. # | | | | | | | | | | |
| | | | | | | | | A | B | C | | | | | | | | | | | | | | | | | | | |
| 1 | 150 | 3 | | Power Skid - (2) 45KVA 3ph & (1) 5KVA 1ph | 1 | 26.5 | | 1 | | | | 2 | 100 | 2 | SPARE | G | | | 2 | | | | | | | | | | |
| 3 | / | / | | | 1 | 26.5 | | 3 | | | | 4 | / | / | - | G | | | 4 | | | | | | | | | | |
| 5 | / | / | | | 1 | 24 | | 5 | | | | 6 | - | - | SPACE | G | | | 6 | | | | | | | | | | |
| 7 | 150 | 3 | | Power Skid - (3) 45KVA XFMRS | 1 | 36 | | 7 | | | | 8 | 125 | 3 | SPARE | G | | | 8 | | | | | | | | | | |
| 9 | / | / | | | 1 | 36 | | 9 | | | | 10 | / | / | - | G | | | 10 | | | | | | | | | | |
| 11 | / | / | | | 1 | 36 | | 11 | | | | 12 | / | / | - | G | | | 12 | | | | | | | | | | |
| 13 | 400 | 3 | | COMPRESSOR - 270HP | 1 | 99 | 1 | 13 | | | | 14 | 150 | 3 | SPARE | G | | | 14 | | | | | | | | | | |
| 15 | / | / | | - | 1 | 99 | 1 | 15 | | | | 16 | / | / | - | G | | | 16 | | | | | | | | | | |
| 17 | / | / | | - | 1 | 99 | 1 | 17 | | | | 18 | / | / | - | G | | | 18 | | | | | | | | | | |
| 19 | 200 | 3 | | SPARE | G | | | 19 | | | | 20 | 100 | 3 | SPARE | G | | | 20 | | | | | | | | | | |
| 21 | / | / | | - | G | | | 21 | | | | 22 | / | / | - | G | | | 22 | | | | | | | | | | |
| 23 | / | / | | - | G | | | 23 | | | | 24 | / | / | - | G | | | 24 | | | | | | | | | | |

| | | | | | |
|--|-------------------------------------|----------------------|------------|-----------------|-----------------|
| NOTES: 1) SOLID STATE TRIP UNIT WITH ADJUSTABLE LT,ST,AND INST PROTECTION. | CONNECTED LOAD SUBTOTAL (PER PHASE) | 161 583 | 161 583 | 159 574 | (KVA) (AMPS) |
| | TOTAL CONNECTED LOAD | 481.80 3Ø LOAD (KVA) | | | |
| | | 580 3Ø LOAD (AMPS) | | | |
| | TOTAL DEMAND LOAD | 481.80 3Ø LOAD (KVA) | | | |
| | | 580 3Ø LOAD (AMPS) | | | |
| METERED LOAD (PER PHASE) | 0 | 0 | 0 | (KVA) (AMPS) | |
| Available Fault Current: | 0.00 3Ø LOAD (KVA) | | | | |
| Date of Calculation: | 0 3Ø LOAD (AMPS) | | | | |

| | | |
|--------------------------------|------|--------|
| NEW LOAD WORKSHEET | | |
| METERED DATA COLLECTION NOTES: | | |
| SUBTRACTED LOAD: | 0.00 | (KVA) |
| ADDED LOAD: | 0.00 | (KVA) |
| 125% METERED LOAD: | 0.00 | (KVA) |
| TOTAL EXPECTED LOAD: | 0.00 | (KVA) |
| TOTAL EXPECTED LOAD: | 0 | (AMPS) |

LEGEND:
 1. REFER TO DRAWING E0.0 FOR COMMON SYMBOLS AND ABBREVIATIONS

GENERAL NOTES:
 1. REFER TO PROJECT SPECIFICATIONS FOR GENERAL ELECTRICAL NOTES.

ISSUE FOR BID
MAY 9, 2025

ECASNE Engineering
 506 PACIFIC BLVD., SUITE 200
 BELLEVUE, WA 98008
 (425) 522-1000 WWW.ECASNE.COM JOB NO. 241038-005

Port of Tacoma
 P.O. BOX 1837 TACOMA, WA 98401

MARK: REVISION: BY: APPR: DATE:



APPROVED: *Steven H. Garrett*
 DIRECTOR, ENG. DATE: 5/9/25

CEC 04/8/25
 CHECKED BY: AA 04/8/25
 PROJ. ENGR: DATE: May 09, 2025
 PRINTED BY: steven.garrett
 PORT ADDRESS: 401 East Alexander Ave
 TACOMA, WA 98421

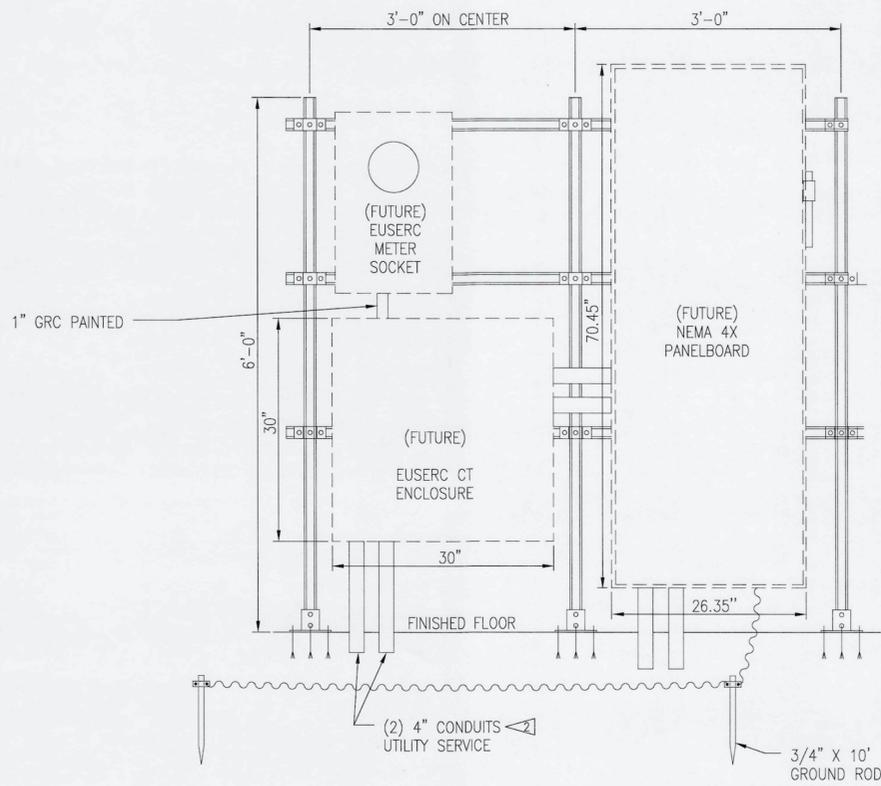
EBC MOTIVE TEMPORARY POWER

MM-DP-1 PANEL SCHEDULE

TOWNSHIP: 21 RANGE: 03 SECTION: 27
 DAT-HRZ: NAD83 VERT: MLW, 1983-2001 EPOCH
 PARCEL: PORT PARCEL 1B DRAWING SCALE: AS NOTED

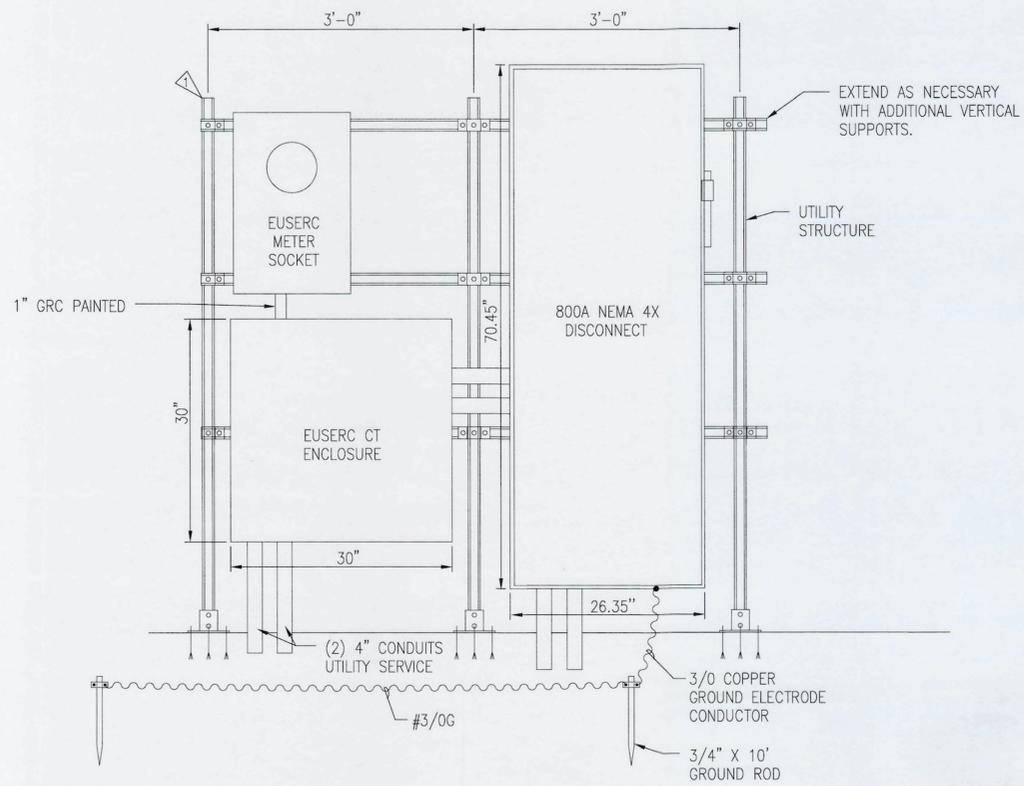
6709
E10.2
 SH# 13 OF 19

PA: POT-PA-000000068
 PROJ. ID: 101686.01
 PHASE: ISSUE FOR BID



FUTURE TEMPORARY SERVICE MOUNTING DETAIL
SCALE: 1"=1'-0"

1
E10.4T



MOTIVE TEMPORARY SERVICE MOUNTING DETAIL
SCALE: 1"=1'-0"

2
E10.4T

LEGEND:

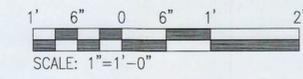
- REFER TO DRAWING E0.0 FOR COMMON SYMBOLS AND ABBREVIATIONS

GENERAL NOTES:

- REFER TO PROJECT SPECIFICATIONS FOR GENERAL ELECTRICAL NOTES.
- "PORT CONSTRUCTION NOTES" APPLY TO WORK TO BE PERFORMED UNDER THE PORT OF TACOMA CONTRACT.
- "MOTIVE CONSTRUCTION NOTES" APPLY TO WORK TO BE PERFORMED UNDER THE MOTIVE MARINE CONTRACT.

MOTIVE CONSTRUCTION NOTES:

- PROVIDE GREEN PAINTED C-CHANNEL STRUT RACK WITH EQUIPMENT AS SHOWN. REFER TO ONE-LINE DIAGRAM E10.0T FOR EQUIPMENT DETAILS. REFER TO CIVIL DRAWINGS FOR RACK DETAILS.
- PROVIDE CONDUIT ONLY FOR FUTURE SERVICE.



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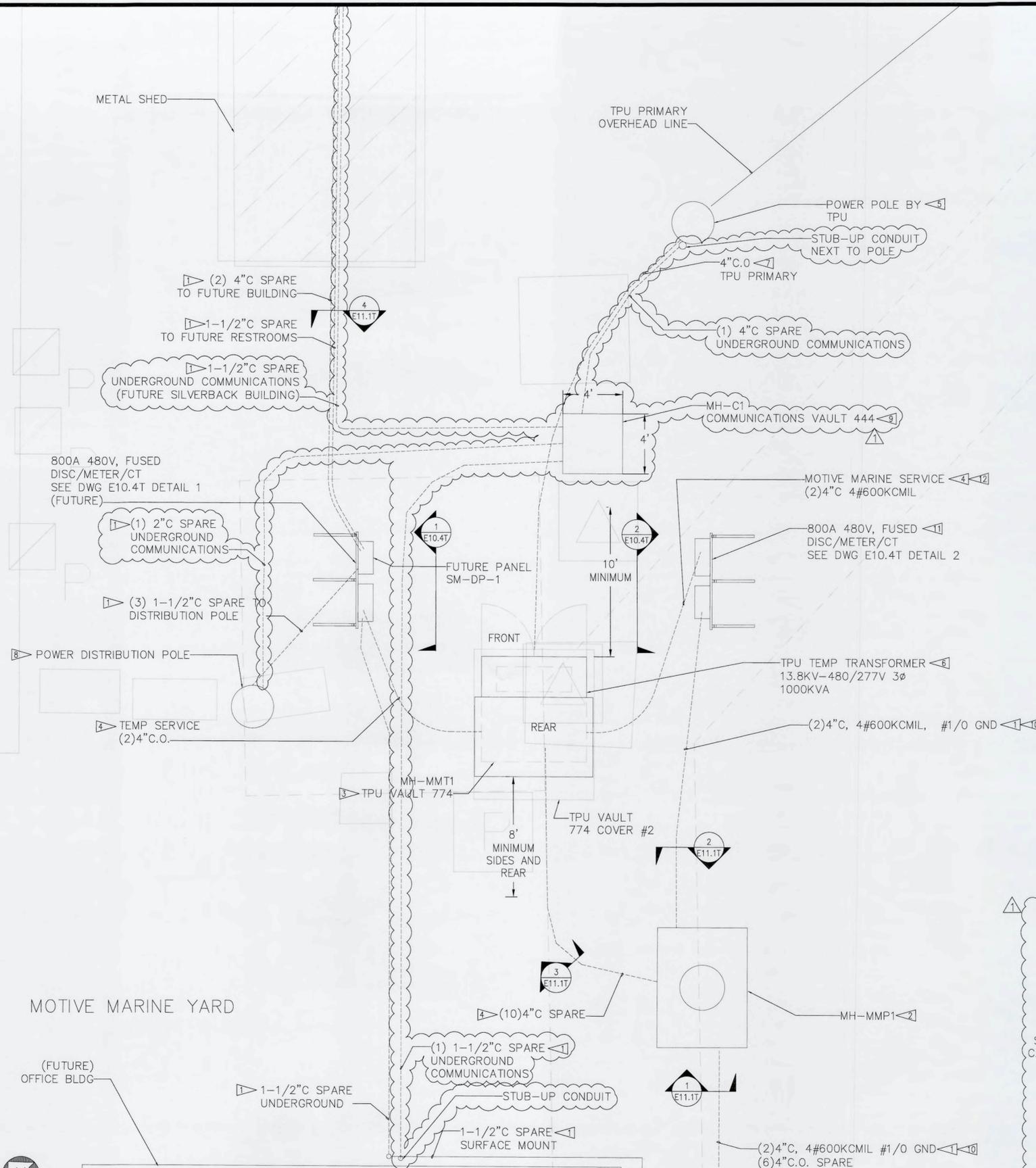
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PRINTED BY: steven.garrett
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TACOMA, WA 98421

EBC MOTIVE TEMPORARY POWER
TEMPORARY EQUIPMENT RACK ELEVATION
RANGE: 03 SECTION: 27
TOWNSHIP: 21
DATE-HRZ: . NAD83
PARCEL: PORT PARCEL 1B DRAWING SCALE: AS NOTED

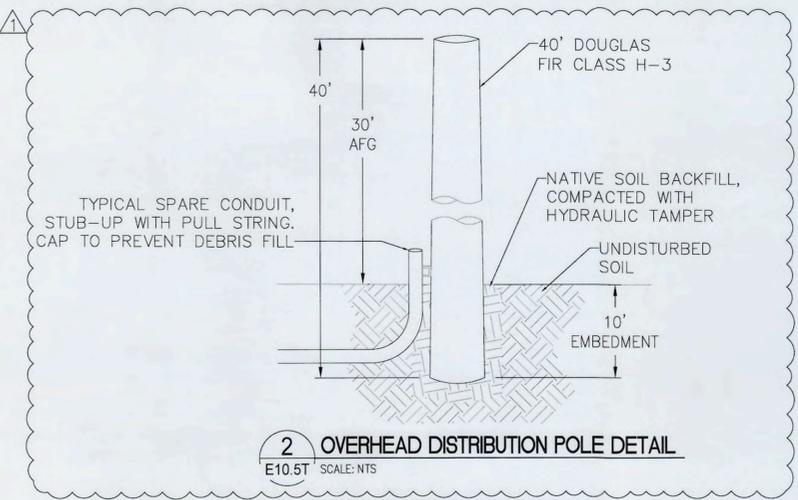
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SH# 14 OF 19
E10.4T
PA: POT-PA-00000068
PROJ. ID: 101686.01
PHASE: ISSUE FOR BID

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1 TEMP POWER SITE PLAN
E10.5T SCALE: 1/4"=1'-0"



2 OVERHEAD DISTRIBUTION POLE DETAIL
E10.5T SCALE: NTS

LEGEND:

- REFER TO DRAWING E0.0 FOR COMMON SYMBOLS AND ABBREVIATIONS.
- GENERAL NOTES:**
- REFER TO PROJECT SPECIFICATIONS FOR GENERAL ELECTRICAL NOTES.
 - COORDINATE ALL SHUT-DOWN AND REMOVAL WORK WITH THE PORT OF TACOMA.
 - WORK IDENTIFIED UNDER "PORT CONSTRUCTION NOTES" TO BE PERFORMED UNDER PORT OF TACOMA CONTRACT. WORK IDENTIFIED UNDER "MOTIVE CONSTRUCTION NOTES" TO BE PERFORMED UNDER MOTIVE MARINE CONTRACT.

PORT CONSTRUCTION NOTES:

- PROVIDE AND INSTALL UNDERGROUND CONDUIT FITTINGS, AND SUPPORTS. CONDUCTORS PROVIDED BY OTHERS.
- PROVIDE AND INSTALL UTILITY VAULT. REFER TO DRAWING E11.2T FOR DETAILS.
- PROVIDE TPU 774 VAULT WITH COVER#2 FOR TEMPORARY TPU TRANSFORMER. COORDINATE SIZE, LOCATION AND INSTALLATION OF LID AND TRANSFORMER WITH TPU. REFER TO DRAWING E11.4T FOR TPU STANDARDS.
- PROVIDE SERVICE CONDUIT ONLY, INSTALLED PER TACOMA POWER STANDARD C-UG-1100. COORDINATE INSTALLATION WITH UTILITY.
- POLE TO BE PROVIDED BY TPU. PROVIDE RISER CONDUIT UP POLE, EXTENDING UNDERGROUND CONDUIT TO TRANSFORMER VAULT. REFER TO DRAWING E11.3T DETAIL 4.
- TRANSFORMER PROVIDED AND INSTALLED BY TACOMA PUBLIC UTILITIES.
- PROVIDE AND INSTALL 4" CONDUIT PER TACOMA PUBLIC UTILITY STANDARD FOR MEDIUM VOLTAGE TRANSFORMER PRIMARY
- PROVIDE AND INSTALL 40' CLASS H-3 DOUGLAS FIR DISTRIBUTION POLE. EMBED 10' IN NATIVE SOIL. REFER TO E10.5T DETAIL 2.
- PROVIDE 444 VAULT FOR COMMUNICATIONS. REFER TO E11.2T FOR VAULT DETAIL.

MOTIVE CONSTRUCTION NOTES:

- PROVIDE CONDUCTORS IN UNDERGROUND CONDUIT. CONDUIT PROVIDED BY OTHERS.
- PROVIDE AND INSTALL 480V TEMPORARY SERVICE CT ENCLOSURE, METER BASE AND FUSED DISCONNECT ON UTILITY RACK. SEE DRAWING E10.4T FOR UTILITY RACK DETAIL.
- PROVIDE SERVICE CONDUCTORS IN CONDUIT, INSTALLED PER TACOMA POWER STANDARD. COORDINATE INSTALLATION WITH UTILITY.

REVISION #1
JUNE 20, 2025

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BELLEVUE, WA 98005
(425) 822-1000 WWW.CASNE.COM

Port of Tacoma
P.O. BOX 1887 TACOMA, WA 98401-1887

| | | | |
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| MARK: | REVISION: | BY: | DATE: |
| | REVISION #1 - COMM VAULT | SHG | 06/20/2025 |



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| CEC 04/8/25 | CHECKED BY | DATE |
| AA 04/8/25 | PROJECT ENGR | DATE |
| APPROVED: | DIRECTOR ENGR | DATE |
| PRINTED BY: steven.garrett | PROJECT: Jun 24, 2025 | |
| PORT ADDRESS: 401 East Alexander Ave | TACOMA, WA 98421 | |

6709

E10.5T
SH# 15 OF 19

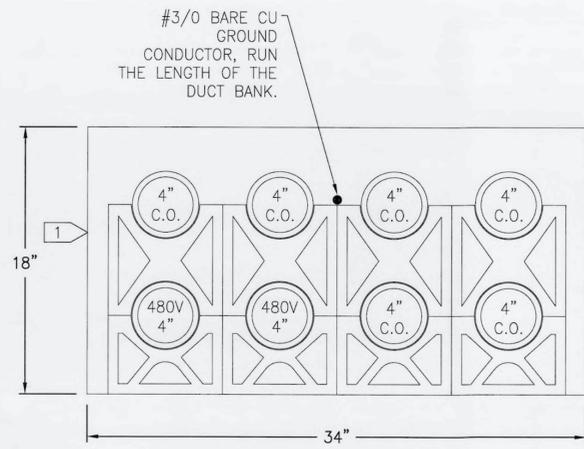
EBC MOTIVE TEMPORARY POWER

ENLARGED TEMPORARY POWER SITE PLAN

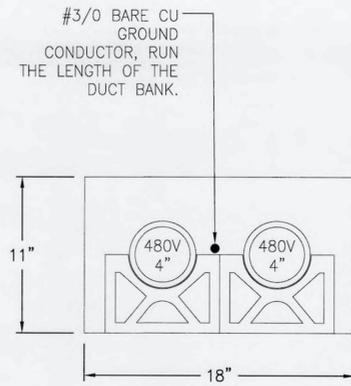
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| TOWNSHIP: 21 | RANGE: 03 | SECTION: 27 |
| DATE-HRZ: NAD83 | VERT: MLW, 1983-2001 | EPOCH |
| PARCEL: ----- | DRAWING SCALE: AS NOTED | |

PA: POT-PA-000000068
PROJ. ID: 101686.01
PHASE: ISSUE FOR BID

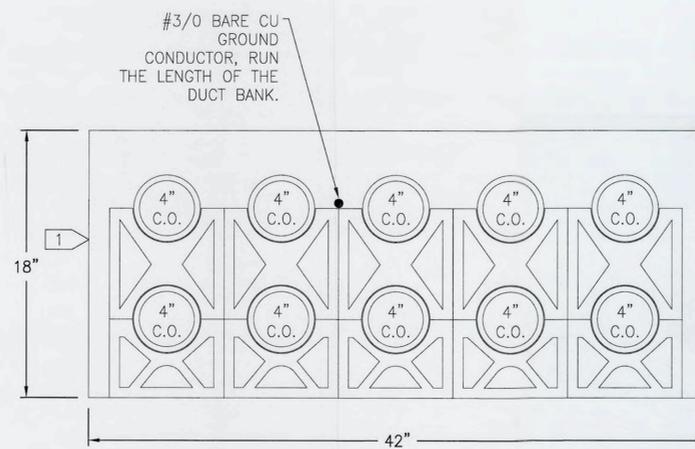
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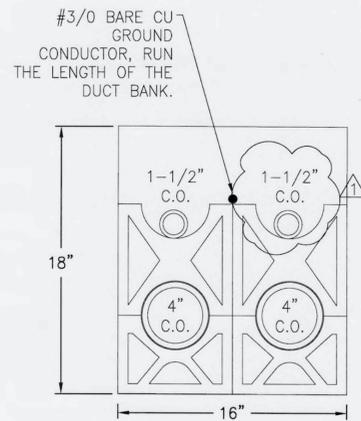
1 480V DUCT BANK SECTION
E11.1T SCALE: 2" = 1'-0"



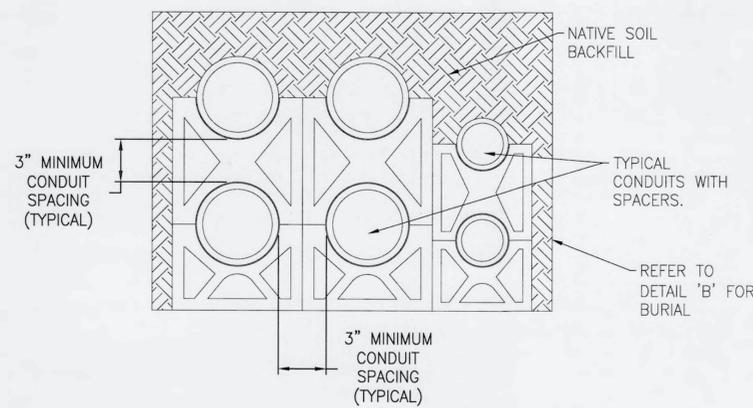
2 480V DUCT BANK SECTION
E11.1T SCALE: 2" = 1'-0"



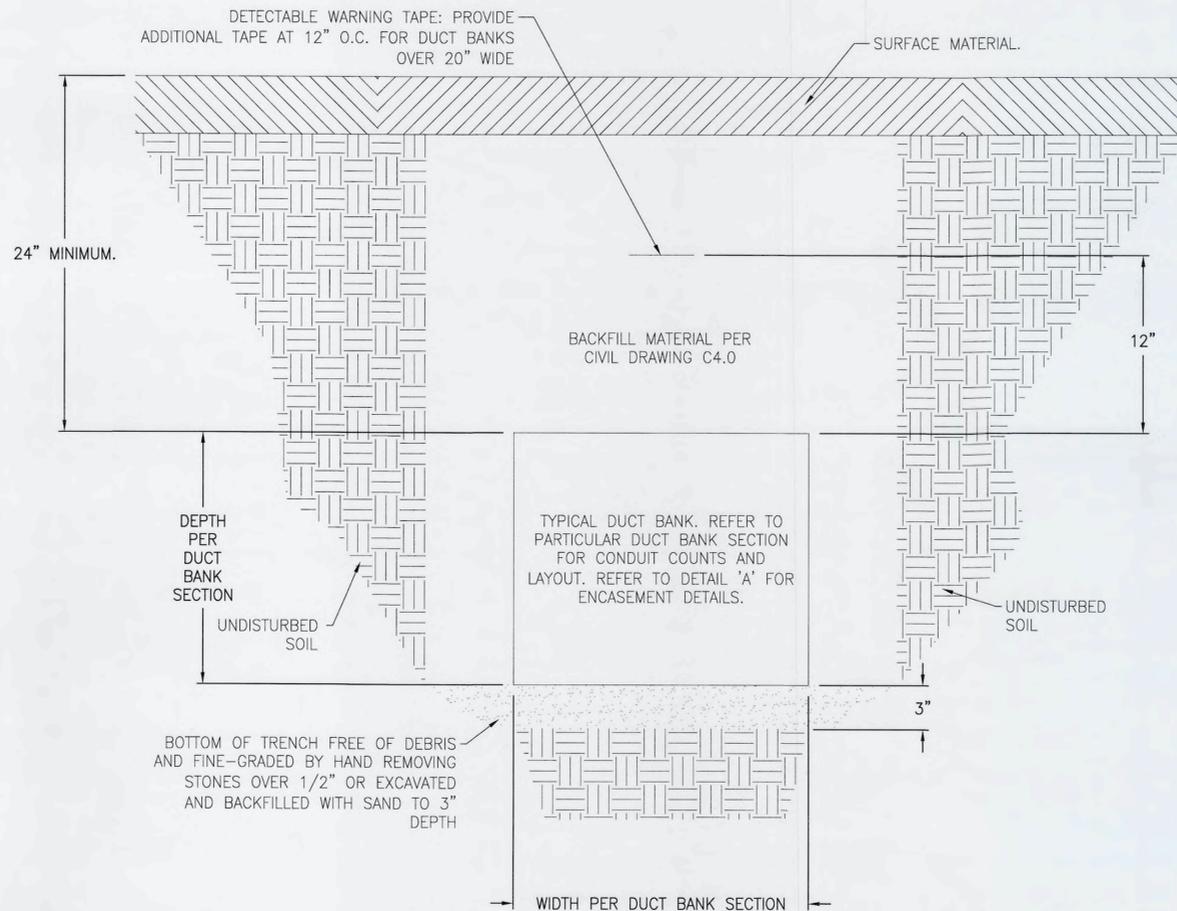
3 SPARE DUCT BANK SECTION
E11.1T SCALE: 2" = 1'-0"



4 SPARE DUCT BANK SECTION
E11.1T SCALE: 2" = 1'-0"



A TYPICAL DUCT BANK CONCRETE ENCASEMENT DETAIL
E11.1T SCALE: 2" = 1'-0"



B SERVICE BUILDING 480V PLAN-REMOVAL
E11.1T SCALE: 2" = 1'-0"

LEGEND:

- REFER TO DRAWING E0.0 FOR COMMON SYMBOLS AND ABBREVIATIONS

GENERAL NOTES:

- DUCT BANK SECTION SHOWN SHALL INSTALLED PER DETAILS A AND B (THIS DRAWING).
- CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING ALL EXISTING UNDERGROUND INTERFERENCES INCLUDING MECHANICAL, ELECTRICAL AND CIVIL INSTALLATIONS WHICH MAY NOT BE SHOWN BUT MAY OVERLAP WITH FINAL ROUTING OF DUCT BANKS AND/OR LOCATION OF MANHOLES. ANY DAMAGE TO SUCH EXISTING INSTALLATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTORS EXPENSE.
- BASE AND INTERMEDIATE DUCT SPACERS SHALL BE PLACED 12" FROM EACH JOINT AND ON 5'-0" CENTERS THROUGHOUT THE DUCT RUN.
- ANCHOR CONDUIT SPACERS TO PAVERS OR BRICKS AS REQUIRED TO PREVENT FLOTATION DUE TO HIGH WATER TABLE DURING CONSTRUCTION OR CONCRETE POURING. ALLOW HORIZONTAL MOVEMENT DUE TO TEMPERATURE FLUCTUATIONS.
- MAINTAIN 12" MINIMUM EDGE-TO-EDGE SEPARATION BETWEEN POWER CONDUIT AND COMMUNICATION CONDUIT IN CONCRETE OR IN EARTH.
- MAINTAIN MINIMUM 12" SEPARATION BETWEEN DUCT BANK AND UTILIDOR OR EXPOSED MECHANICAL PIPING UNLESS OTHERWISE NOTED.
- ALL PROJECT RELATED CONDUITS, EXISTING OR NEW SHALL BE PROVEN SUITABLE FOR CABLE PLACEMENT BY PULLING THROUGH THE FOLLOWING MANDRELS IN THE ORDER DEFINED:
 - A WOODEN OR ALUMINUM TEST MANDREL TO VERIFY CONDUITS ARE NOT CRUSHED.
 - A POLYURETHANE, NEOPRENE OR LEATHER MANDREL FOR CLEANING DEBRIS.
 - A LUBRICATION SPREADING MANDREL TO PREPARE FOR CABLE PULLING (WHERE APPLICABLE).
- ALL SPARE OR EMPTY CONDUITS SHALL BE EQUIPPED WITH 1/2" MULETAPE OR EQUIVALENT, RATED AT MINIMUM 1,500 POUNDS PULLING STRENGTH.
- USE MINIMUM 25' BENDING RADIUS FOR ALL HORIZONTAL BENDS EXCEPT WHERE PLANS INDICATE OTHERWISE.
- USE MINIMUM 3' BENDING RADIUS FOR ALL CONDUIT STUB-UPS.
- SEE SPECIFICATION 26 05 43 FOR ADDITIONAL REQUIREMENTS.
- REFER TO DRAWING E1.0T FOR SECTION CUT LOCATIONS.

REVISION #1
JUNE 20, 2025

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CASNEE Engineering
3545 FACTORIA BOULEVARD, SUITE 200
TACOMA, WA 98406
(425) 822-1000 WWW.CASNEE.COM JOB NO. 241038-005

DATE: 06/20/25
APPR: [Signature]
BY: SHC
REVISION #1 - COMM. VAULT
MARK: [Signature]

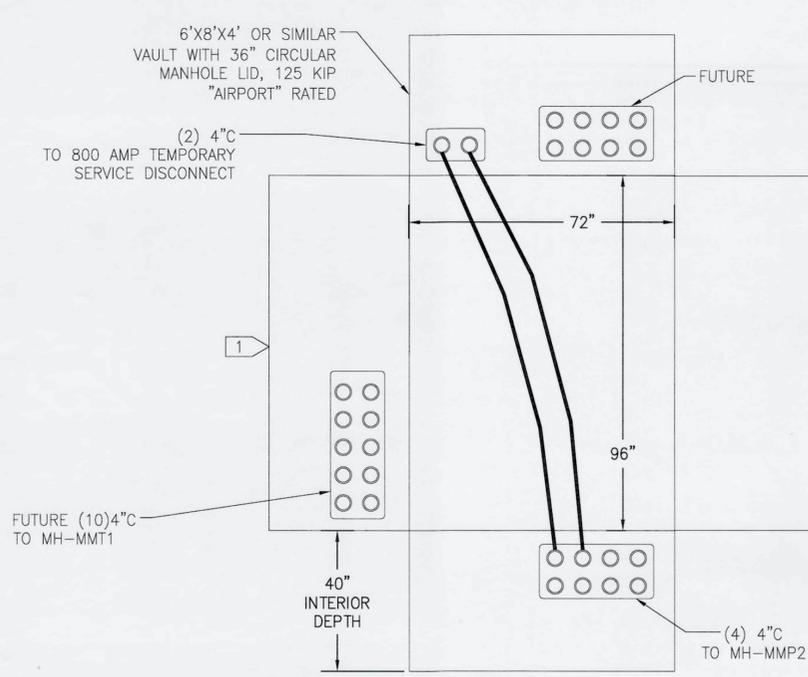


| | | |
|--------------------------------------|--------------------------------------|------|
| CEC 04/8/25 | CHECKED BY | DATE |
| AA 04/8/25 | AA 04/8/25 | DATE |
| APPROVED: [Signature] | DIRECTOR | DATE |
| PRINTED BY: steven.garrett | PROJ. ENGR | DATE |
| PORT ADDRESS: 401 EAST ALEXANDER AVE | PORT ADDRESS: 401 EAST ALEXANDER AVE | DATE |
| TACOMA, WA 98421 | TACOMA, WA 98421 | DATE |

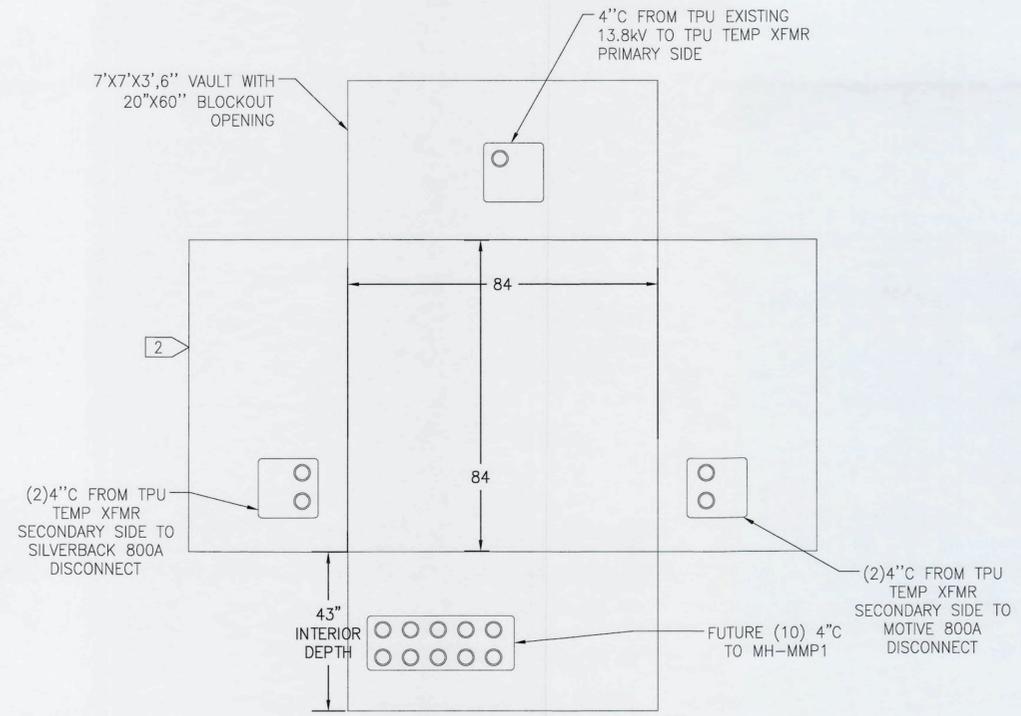
EBC MOTIVE TEMPORARY POWER

DUCT BANK DETAILS
TOWNSHIP: 21 NORTH
RANGE: 3 EAST
SECTION: 27
DATE-HRZ: NAD83
VERT: MLLW 1983-2001 EPOCH
PARCEL: PORT PARCEL TB
DRAWING SCALE: AS NOTED

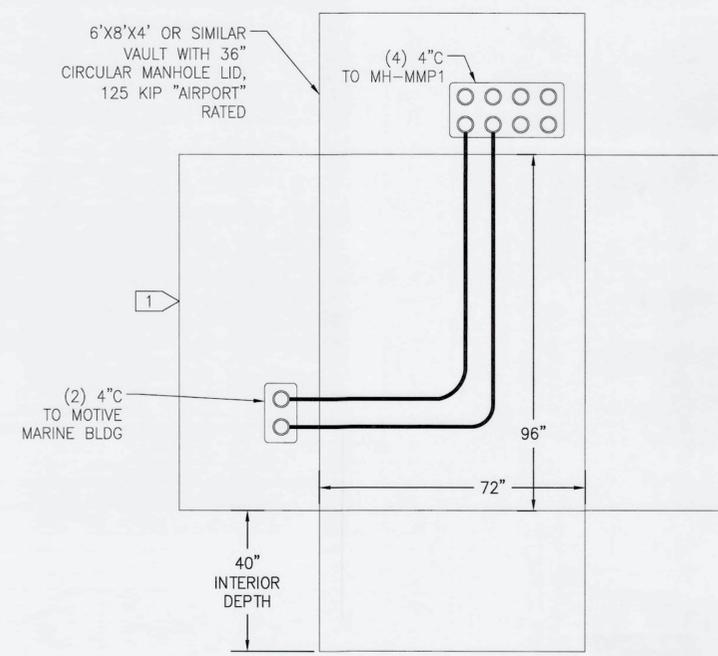
6709
E11.1T
S# 16 OF 19
IPA: POT-PA-000000068
PROJ. ID: 101686.01
PHASE: ISSUE FOR BID



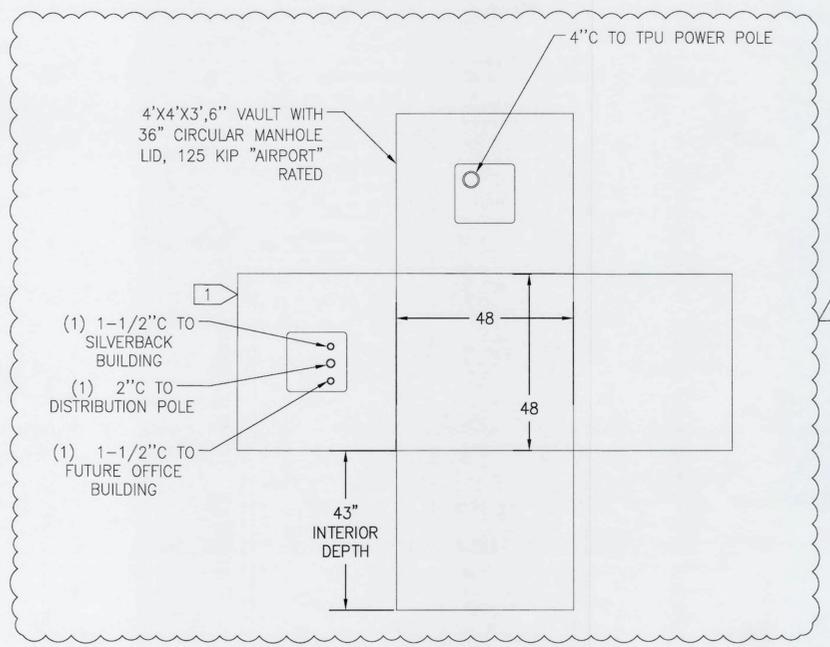
1 MH-MMP1 480V VAULT BUTTERFLY
E11.2T SCALE: 1/2" = 1'-0"



3 MH-MMT1 TRANSFORMER VAULT BUTTERFLY
E11.2T SCALE: 1/2" = 1'-0"



2 MH-MMP2 480V VAULT BUTTERFLY
E11.2T SCALE: 1/2" = 1'-0"



4 MH-C1 COMMUNICATIONS VAULT BUTTERFLY
E11.2T SCALE: 1/2" = 1'-0"

LEGEND:

- REFER TO DRAWING E0.0 FOR COMMON SYMBOLS AND ABBREVIATIONS

GENERAL NOTES:

- REFER TO DRAWING E11.3T DETAILS 1 AND 2 FOR MANHOLE GROUNDING AND CABLE RACKING DETAILS.
- REFER TO DRAWING E11.4T DETAILS 1 THROUGH 5 FOR 1500KVA TRANSFORMER 774 VAULT WITH COVER #2 CONSTRUCTION.
- REFER TO DRAWING E11.5T DETAILS 1 THROUGH 3 FOR COMMUNICATIONS 444 VAULT WITH COVER #2 CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING ALL EXISTING UNDERGROUND INTERFERENCES INCLUDING MECHANICAL, ELECTRICAL AND CIVIL INSTALLATIONS WHICH MAY NOT BE SHOWN BUT MAY OVERLAP WITH FINAL ROUTING OF DUCT BANKS AND/OR LOCATION OF MANHOLES. ANY DAMAGE TO SUCH EXISTING INSTALLATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTORS EXPENSE
- VERIFY MANHOLE ELEVATIONS AND DUCT ARRANGEMENT PRIOR TO PLACEMENT TO ENSURE PROPER COORDINATION WITH DUCT BANK ELEVATION, CROSS-SECTIONS AND THE PREMANUFACTURED CONDUIT KNOCKOUTS. THE CONTRACTOR MAY USE MANUFACTURER'S STANDARD DESIGN KNOCKOUTS OR CUSTOM DESIGNED KNOCKOUTS AS REQUIRED TO ACCOMMODATE THE DUCT BANK PROFILES AND CROSS SECTIONS INDICATED.
- ADD RISERS AS NECESSARY TO BRING MANHOLE OPENING TO GRADE. MANHOLE COVER SHALL BE 1" ABOVE FINISH GRADE AND SLOPED TO PREVENT WATER ENTRY.
- ALL SEAMS IN RISER AND MANHOLES SHALL BE GROUTED WITH QUICK PLUG OR EQUIVALENT PER UTILITY VAULT SPECIFICATIONS.
- CONDUIT TERMINATIONS AT MANHOLES SHALL ENTER THROUGH PRE-SET KNOCKOUTS ONLY AND NOT EXTEND MORE THAN 3/4" BEYOND INSIDE WALL EXCEPT WHERE CONDUIT IS REQUIRED TO PASS THROUGH.
- ALL MANHOLES SHALL BE EQUIPPED WITH STAINLESS STEEL PULLING IRONS AND STAINLESS HARDWARE.
- STAINLESS STEEL OR NON-METALLIC CABLE RACKING SHALL BE PROVIDED IN ALL POWER MANHOLES AS REQUIRED FOR THE SPECIFIC QUANTITY OF CABLE AND/OR TYPE OF TERMINATION/SPLICE.
- SEE CIVIL AND STRUCTURAL PLANS FOR TRENCH AND BACKFILL REQUIREMENTS.
- REFER TO DRAWINGS E1.0T FOR VAULT LOCATIONS.

REVISION #1
JUNE 20, 2025



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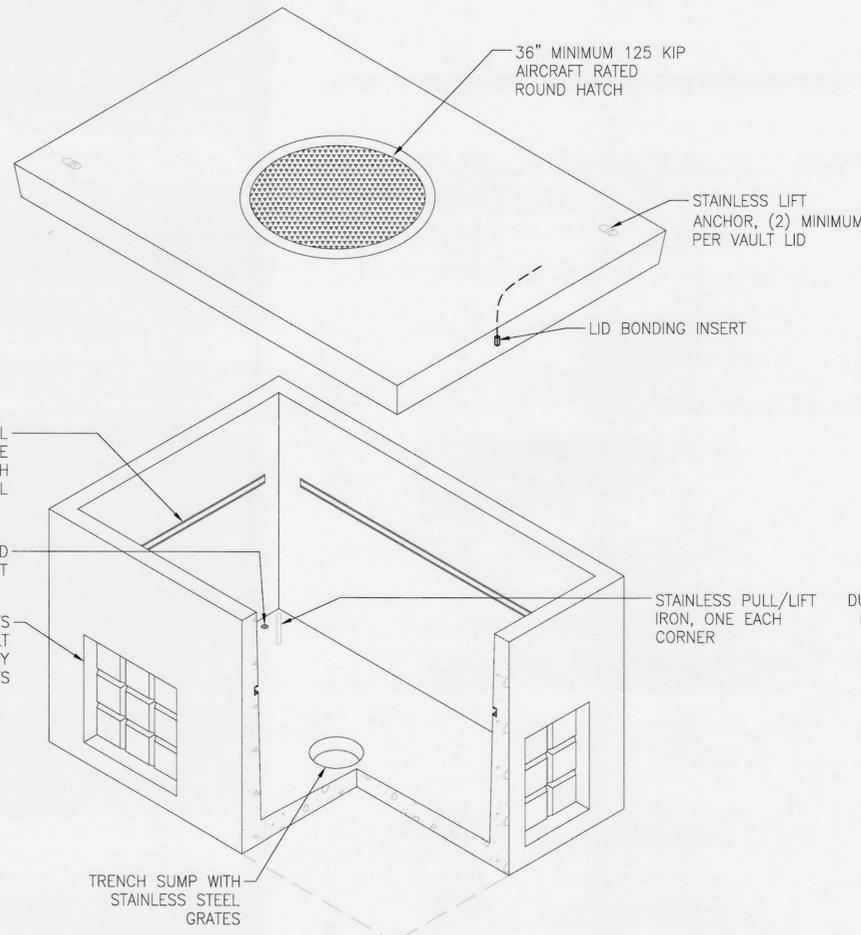
| | | |
|---|------------------|----------------|
| CEC 04/8/25 | CHECKED BY | DATE |
| AA 04/8/25 | PROJECT ENGR | DATE |
| PROJECTED BY: steven.garrett | PROJECTED DATE | PROJECTED DATE |
| PROJECT ADDRESS: 401 EAST ALEXANDER AVE | TACOMA, WA 98421 | |

APPROVED: *Steven Garrett*
DIRECTOR ENGR. DATE: Jun 24, 2025
PORT ADDRESS: 401 EAST ALEXANDER AVE
TACOMA, WA 98421

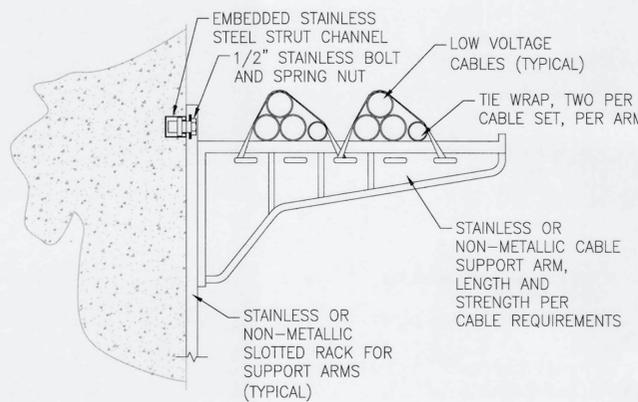
| | | | |
|-----------------------------------|-------------------------|-------------|--|
| EBC MOTIVE TEMPORARY POWER | | | |
| VAULT DETAILS | | | |
| TOWNSHIP: 21 | RANGE: 3 | SECTION: 27 | |
| DATE-HRZ: . | VERT: MLW, 1983-2001 | EPOCH | |
| PARCEL: PORT PARCEL 1B | DRAWING SCALE: AS NOTED | | |

| | |
|----------------------|---------------|
| 6709 | E11.2T |
| SH# 17 OF 19 | |
| PA: POT-PA-000000068 | |
| PROJ. ID: 101686.01 | |
| PHASE: ISSUE FOR BID | |

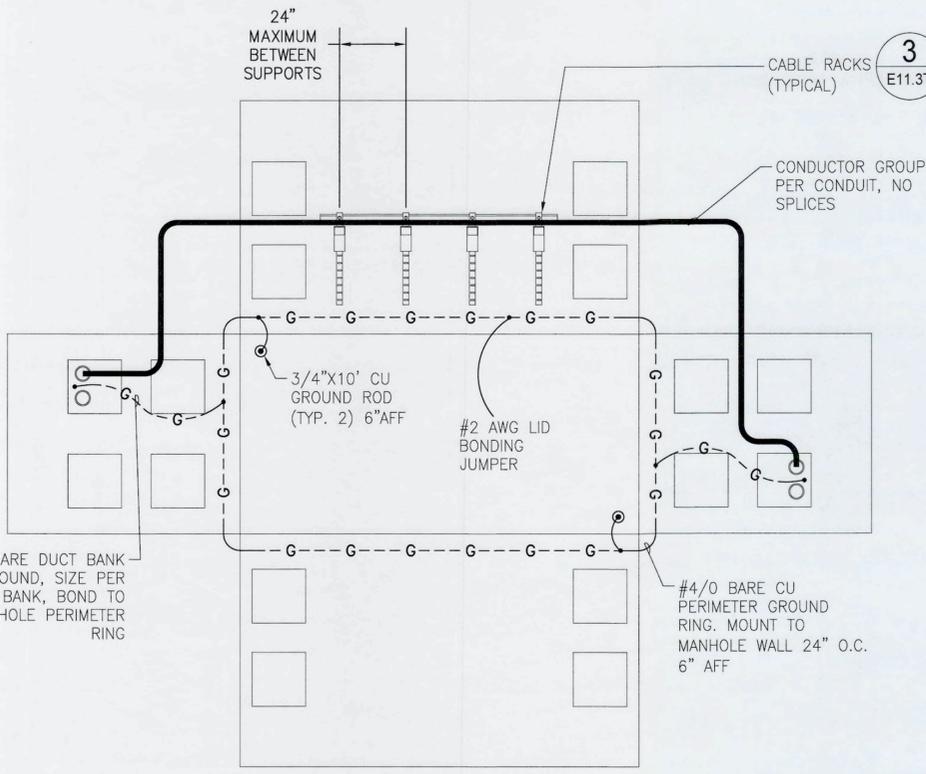
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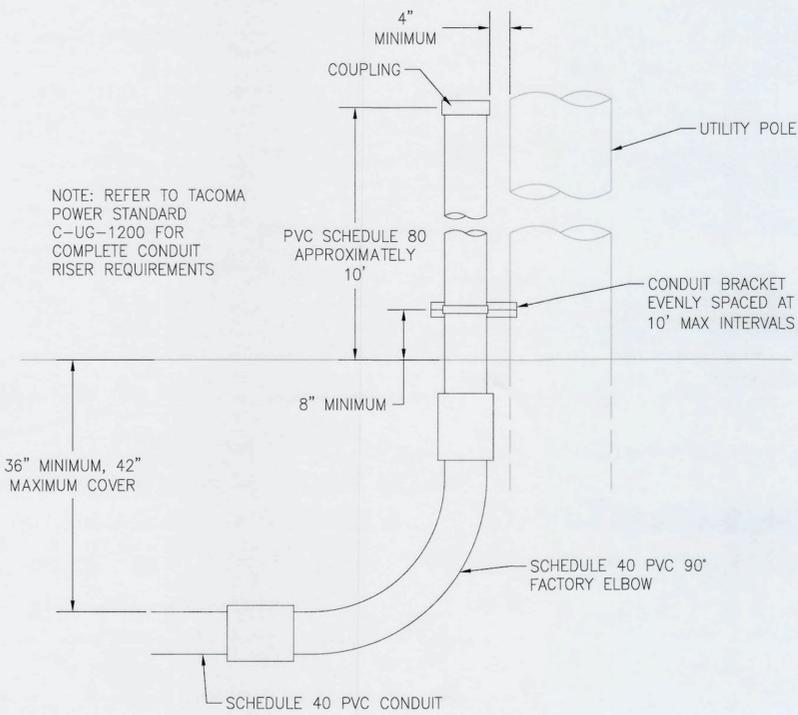
1
E11.3T SCALE: NONE
TYPICAL ELECTRICAL OR COMMUNICATION VAULT DETAIL



3
E11.3T SCALE: NONE
CABLE SUPPORT DETAIL



2
E11.3T SCALE: NONE
TYPICAL ELECTRICAL VAULT SUPPORT AND GROUNDING DETAIL



4
E11.3T SCALE: NONE
CONDUIT RISER DETAIL

LEGEND:
1. REFER TO DRAWING E0.0 FOR COMMON SYMBOLS AND ABBREVIATIONS

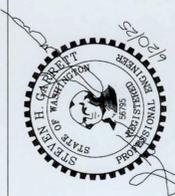
GENERAL NOTES:
1. REFER TO PROJECT SPECIFICATIONS FOR GENERAL ELECTRICAL NOTES.

REVISION #1
JUNE 20, 2025

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Port of Tacoma
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MARK: REVISION: BY: DATE: APPR: 06/20/25
REVISION #1 - COMM VAULT SHG



CEC 04/8/25
CHECKED BY: AA 04/8/25
DATE: AA 04/8/25
PROJ. ENGR: steven.garrett Jun 24, 2025
DATE: steven.garrett Jun 24, 2025
DIRECTOR ENGR: steven.garrett Jun 24, 2025
DATE: steven.garrett Jun 24, 2025
TACOMA, WA 98421

6709 E11.3T SH# 18 OF 19

EBC MOTIVE TEMPORARY POWER

DETAILS: TOWNSHIP: 21 RANGE: 3 SECTION: 27
RANGE: 3 SECTION: 27
VERT: MLW, 1983-2001 EPOCH
DATE-HRZ: . . .
PARCEL: PORT PARCEL 1B DRAWING SCALE: AS NOTED

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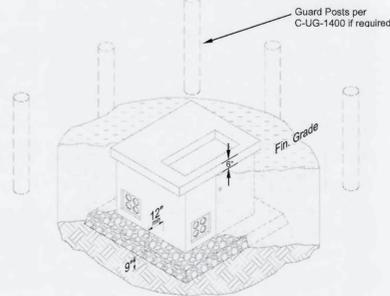
Customer Requirements Transformer Vault Installation

May 18, 2023

C-UG-1700

Installation of Vault and Cover

Figure 1 Vault Foundation and Backfill



The foundation shall be prepared as follows as directed by the Construction Inspector. See Figure 1.

| Issue | Action |
|------------------------|--|
| Excavation for Vault | The Construction Inspector will direct the excavation requirements. |
| Vault Foundation | Vault foundation shall be minimum of 9 inches of 5/8" minus crushed rock, well compacted, extending a minimum of 12 inches beyond the edge of the vault in all directions. |
| Backfill Material | Clean fill or better as directed by the Construction Inspector. |
| Compaction at Subgrade | Compaction requirements will be determined by the Construction Inspector. |
| Final Grade | The elevation difference between the top of the vault cover and final grade shall be 6 inches. |

TPU XFMR VAULT INSTALLATION STANDARD

1
E11.4T SCALE: NONE



Customer Requirements Transformer Vault Installation

May 18, 2023

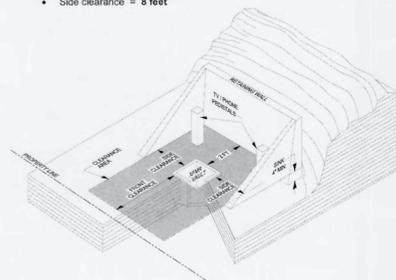
C-UG-1700

Installation of Vault and Cover (continued)

Guard Posts Guard posts may be required by the New Services Engineer to protect vaults against damage due to vehicular traffic. See C-UG-1400 "Customer Requirements, Padmount Equipment Guard Posts Installation" for guard post construction and placement.

Figure 2 Sloping Installations
For transformer vaults installed on a slope, the **minimum** dimensions for clearances are:

- Front clearance = 8 feet
- Side clearance = 8 feet



- Construction Notes**
- The transformer vault must be kept clear of any **obstructions**, such as:
 - o fences, mail boxes, rockeries, berms, and vegetation.
 - o bark, sod, ground cover mulch, and rocks, etc., on any part of the structure.
 - o trees and bushes extending into the clearance area.
 - Phone and TV pedestals must be installed behind the vault on back corners as shown above.
 - The clearance area grade shall be level and a retaining wall shall be provided when required by the New Services Engineer.
 - o A wooden, concrete or rocky wall shall have 1 to 4 maximum allowable slope to the property line.

TPU XFMR VAULT CLEARANCE REQUIREMENTS

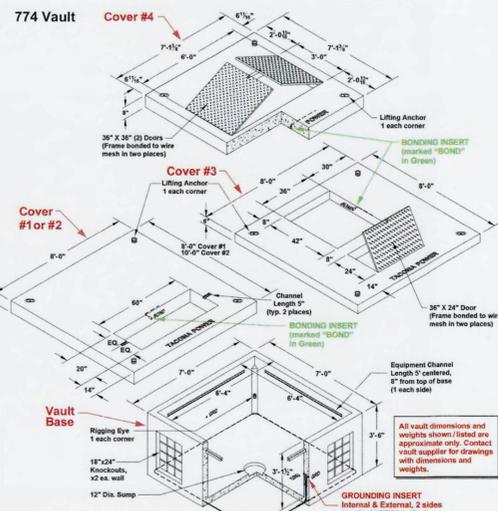
2
E11.4T SCALE: NONE



Precast Concrete Vaults

August 8, 2024

A-UG-1150



DESCRIPTION: Vault, concrete, type 774, 7ft x 7ft x 3ft-6in base, 3Ø transformer/primary metering cabinet cover #1 is 8ft x 8ft x 8in with 20in x 60in blockout opening, 3Ø transformer cover #2 is 8ft x 10ft x 8in with 20in x 60in blockout opening, secondary service cabinet cover #3 is 8ft x 8ft x 6in with 3ft x 2ft hinged diamond plate aluminum door and 38in x 42in blockout opening, secondary service box cover #4 is 7ft-1in x 7ft-1in x 8in with two 3ft x 3ft hinged diamond plate aluminum doors

TPU XFMR VAULT 774 STANDARD COVER #2 (1500KVA)

3
E11.4T SCALE: NONE



Precast Concrete Vaults

August 8, 2024

A-UG-1150

774 Vault (continued)

| Material | MID# |
|--|-------|
| 774 Vault Base (7,500 lbs) | 21167 |
| 774 Transformer (500 kVA to 1500 kVA) or Primary Meter Cabinet Cover #1, 8ft x 8ft (5,600 lbs) | 19461 |
| 774 Transformer (2000 kVA to 2500 kVA) Cover #2, 8ft x 10ft (7,200 lbs) | 19463 |
| 774 Secondary Service Cabinet Cover #3 (5,000 lbs) | 50893 |
| 774 Secondary Service Box Cover #4 Standard (4,000 lbs) | 67541 |
| 774 Secondary Service Box Cover #4 Non-skid (4,000 lbs) | 67540 |
| 774 Riser, 6in (1,200 lbs) | 39974 |
| 774 Riser, 12in (2,000 lbs) | 43256 |

APPLICATION: Large 3Ø Transformers (500 kVA to 2500 kVA), 3Ø Primary Metering Cabinet, Secondary Service Cabinet, Commercial Secondary Service Box

TPU XFMR VAULT 774 STANDARD (1500KVA) BOM

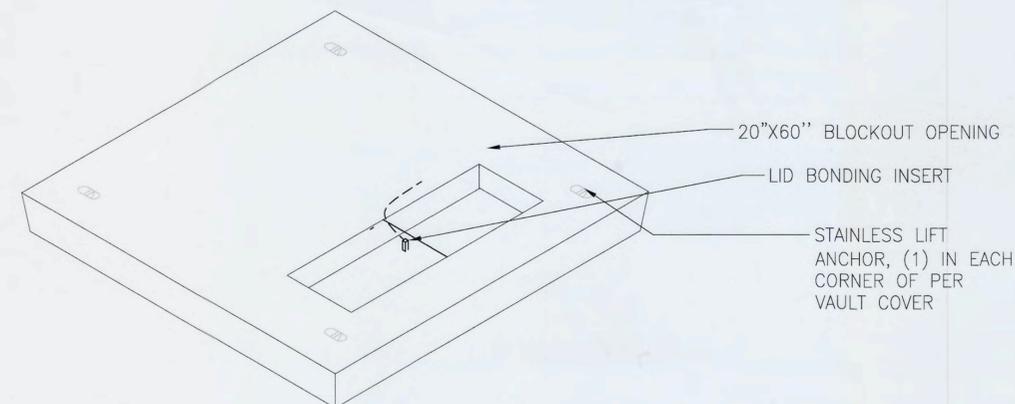
4
E11.4T SCALE: NONE

LEGEND:

1. REFER TO DRAWING E0.0 FOR COMMON SYMBOLS AND ABBREVIATIONS

GENERAL NOTES:

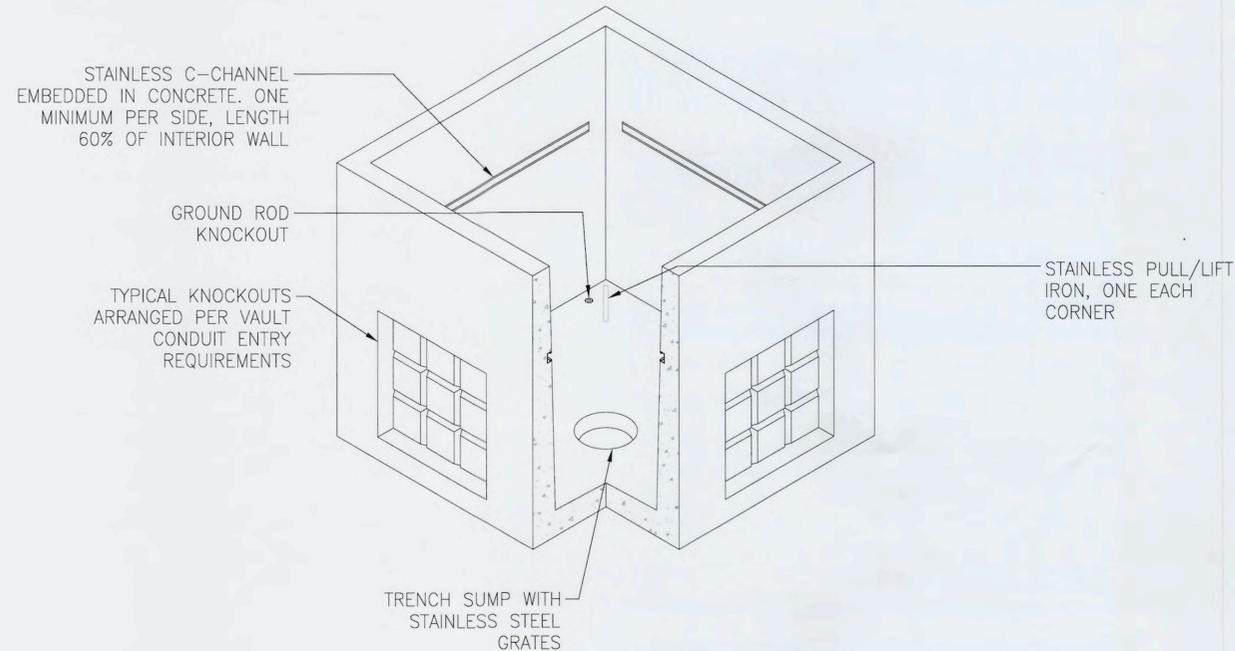
1. REFER TO PROJECT SPECIFICATIONS FOR GENERAL ELECTRICAL NOTES.
2. THE TACOMA PUBLIC UTILITIES STANDARDS PROVIDED ON THIS DRAWING ARE INCLUDED FOR REFERENCE ONLY. COORDINATE ALL TACOMA PUBLIC UTILITIES INFRASTRUCTURE INSTALLATION WITH TACOMA PUBLIC UTILITIES.



20"X60" BLOCKOUT OPENING

LID BONDING INSERT

STAINLESS LIFT ANCHOR, (1) IN EACH CORNER OF PER VAULT COVER



STAINLESS C-CHANNEL EMBEDDED IN CONCRETE. ONE MINIMUM PER SIDE, LENGTH 60% OF INTERIOR WALL

GROUND ROD KNOCKOUT

TYPICAL KNOCKOUTS ARRANGED PER VAULT CONDUIT ENTRY REQUIREMENTS

STAINLESS PULL/LIFT IRON, ONE EACH CORNER

TRENCH SUMP WITH STAINLESS STEEL GRATES

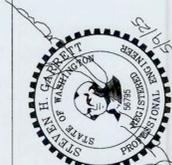
TPU XFMR VAULT 774 STANDARD COVER #2 (1500KVA) DETAIL

4
E11.4T SCALE: NONE

ISSUE FOR BID
MAY 9, 2025



CASNE Engineering
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CHECKED BY: CEC 04/8/25
DATE: 04/08/25

PROJECT ENGR: AA 04/08/25
DATE: 04/08/25

PRINTED BY: steven.garrett
PORT ADDRESS: 401 EAST ALEXANDER AVE
TACOMA, WA 98421

APPROVED: Steven Garrett

EBC MOTIVE TEMPORARY POWER

TPU TRANSFORMER VAULT STANDARDS

TOWNSHIP: 21
RANGE: 3
SECTION: 27

DAT-HRZ: M.W. 1983-2001 EPOCH

PARCEL: PORT PARCEL 1B
DRAWING SCALE: AS NOTED

6709
E11.4T
S# 19 OF 19

PA: POT-PA-00000068
PROJ. ID: 101686.01
PHASE: ISSUE FOR BID