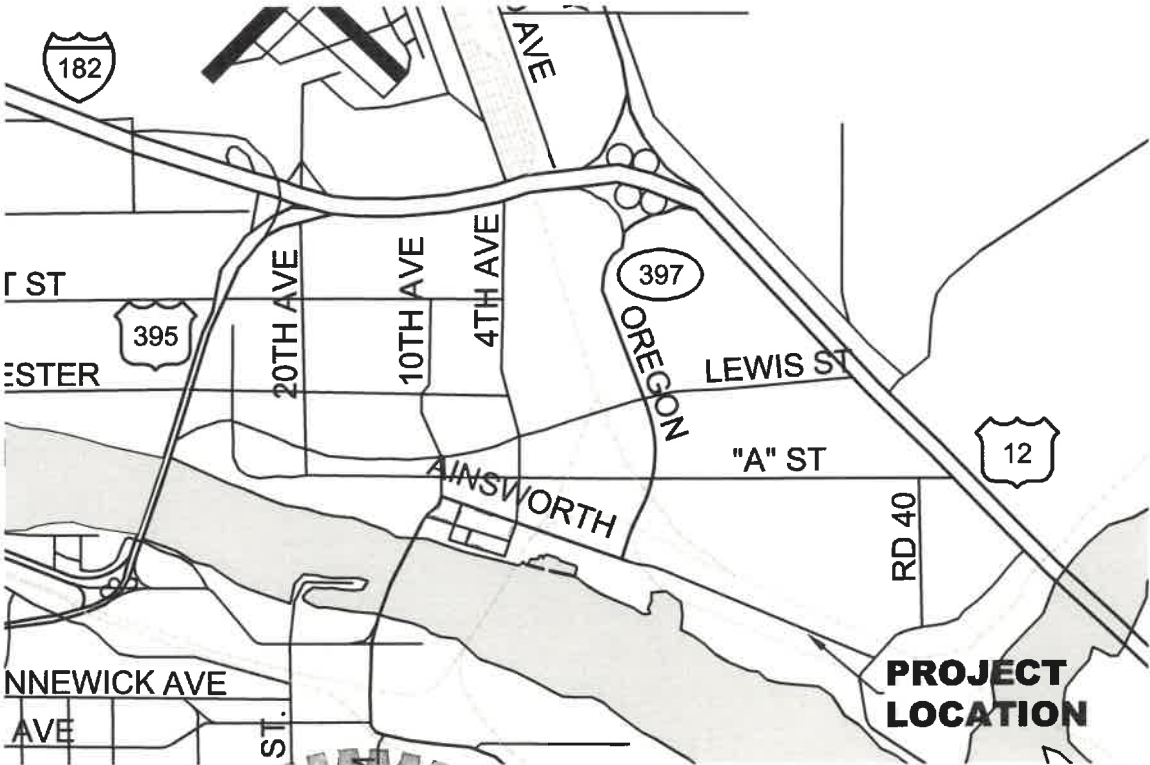
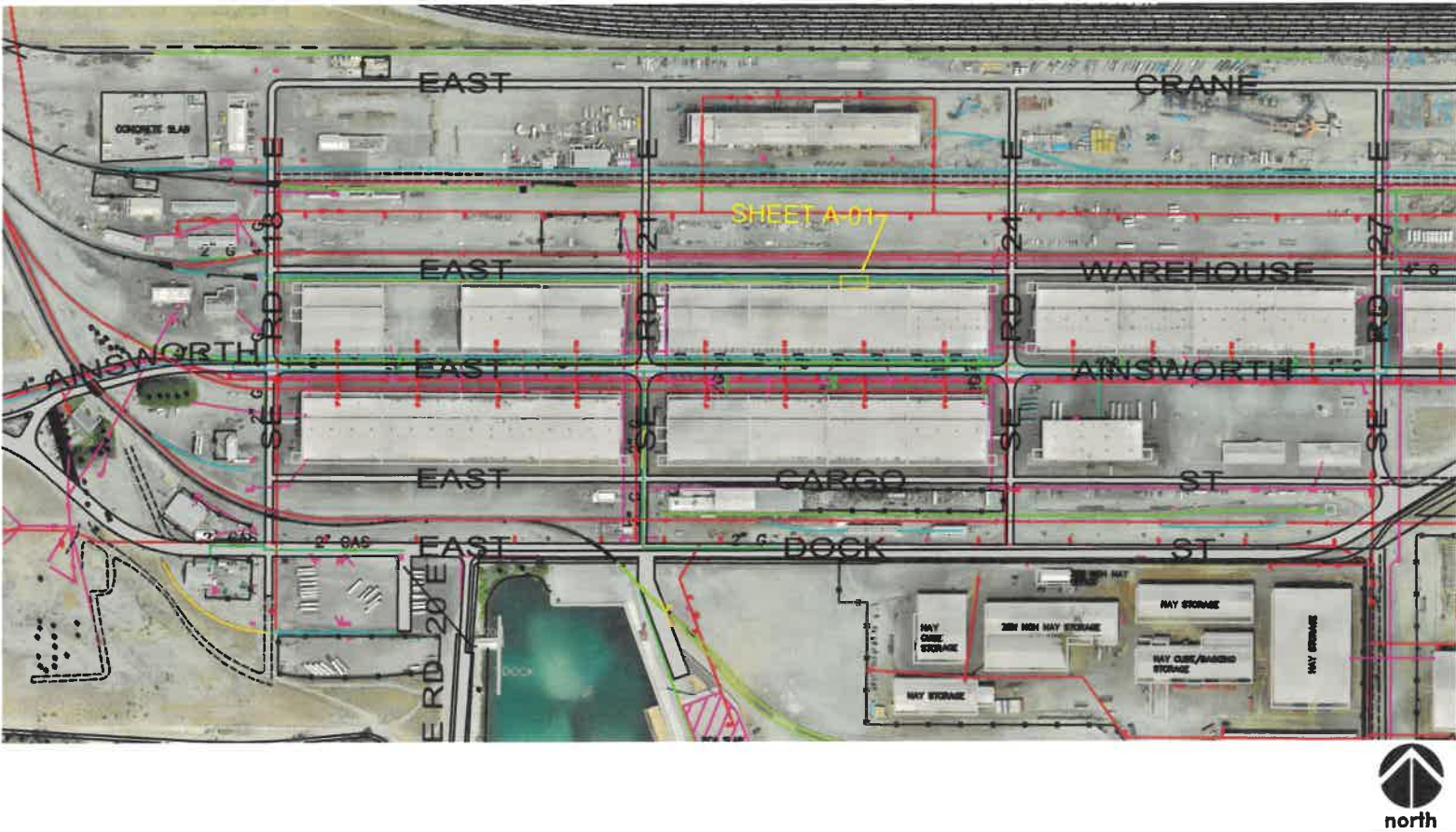


PORT OF PASCO
WH2B3 CONCRETE DOCK
PROJECT
2241 E. AINSWORTH AVE
PASCO, WA

SHEET NO.	TITLE
G-01	PROJECT LOCATION & INDEX
G-02	GENERAL NOTES
G-03	LEGEND, ABBREVIATIONS, & GENERAL SYMBOLOGY
PH-01	PHOTOGRAPHS
DRAWINGS	
A-01	PLAN VIEW, ELEVATION & SECTION CONCRETE DOCK WH2B3
S001	STRUCTURAL GENERAL NOTES & ABBREVIATIONS
S-01	STRUCTURAL SECTION & DETAILS AT WH2B3 CONCRETE DOCK

SHEET INDEX



SITE PLAN

NTS

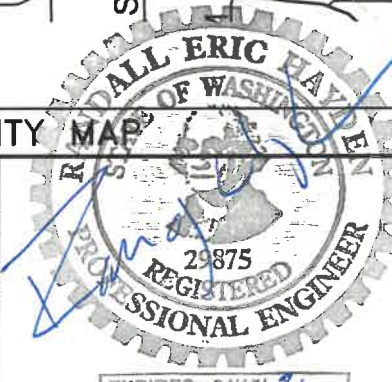
PROJECT VICINITY

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PORT OF PASCO
WAREHOUSE 2 BAY 3 CONCRETE DOCK
PASCO, WA

PROJECT LOCATION AND INDEX

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No.	REVISIONS	DATE	DRWN	CHKD	DESIGN	APPD	DWG. No.
							G-01
							SCALE: AS NOTED
							CADFILE: G-01
							JOB No.
							REV.



NOTES:

GENERAL

1. CONTRACTORS SHALL VISIT AND FAMILIARIZE THEMSELVES WITH THE SITE AND SHALL BRING ANY DISCREPANCIES IN THE DRAWINGS OR SPECIFICATIONS TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO BIDDING OR UNDERTAKING THE AFFECTED WORK.
2. ANY DISCREPANCIES IN THESE DRAWINGS, SPECIFICATIONS, THESE NOTES AND SITE CONDITIONS SHALL BE REPORTED TO THE ENGINEER WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING AFTER REVIEWING ANY CHANGES PRIOR TO BIDDING THE WORK. ANY WORK PERFORMED BY THE CONTRACTOR AFTER THE DISCOVERY OF SUCH DISCREPANCY SHALL VERIFY AND COORDINATE THE DIMENSIONS AMONG ALL DRAWINGS PRIOR TO PROCEEDING WITH ANY WORK.
3. APPROVALS BY BUILDING OFFICIAL SHALL NOT CONSTITUTE AUTHORITY TO DEVIATE FROM PLANS AND SPECIFICATIONS (CONSTRUCTION DOCUMENTS).
4. OMISSIONS IN THE EVENT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE DRAWINGS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SIMILAR CONDITIONS THAT ARE SHOWN. IF FEATURES ARE STILL UNCLEAR, CONTACT ARCHITECT/ENGINEER FOR CLARIFICATION.
5. THE CONTRACTOR SHALL PROVIDE QUALIFIED PERSONNEL THROUGHOUT THE WORK. THE CONTRACTOR IS RESPONSIBLE TO SEE THAT WORK IN THE FIELD IS DONE IN ACCORDANCE WITH ALL CURRENT APPLICABLE NATIONAL, STATE AND LOCAL CODES, ORDINANCES, REQUIREMENTS, ETC. ARE SPECIFICALLY SHOWN ON DRAWINGS AND/OR CALLED FOR IN THE SPECIFICATIONS.
6. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING CONSTRUCTION OF THE PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY CONTINUOUSLY DURING, BUT NOT LIMITED TO, NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND THE ARCHITECT/ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ARCHITECT/ENGINEER. THE OWNER AND ARCHITECT/ENGINEER SHALL BE NAMED AS ADDITIONAL INSURED ON THE CONTRACTORS LIABILITY INSURANCE COVERAGE PER CONTRACT DOCUMENTS.
7. ALL MANUFACTURED MATERIALS, COMPONENTS, FASTENERS, ASSEMBLIES, ETC. SHALL BE HANDLED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND PROVISIONS OF APPLICABLE ICBO RESEARCH RECOMMENDATIONS. WHERE SPECIFIC MANUFACTURED PRODUCTS ARE CALLED FOR, PRODUCTS OF EQUAL QUALITY WHICH MEET APPLICABLE STANDARDS AND SPECIFICATIONS MAY BE USED, BUT ONLY IF APPROVED BY ARCHITECT/ENGINEER UNLESS SPECIFICALLY NOTE IN THE CONTRACT.
8. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR FINAL DIMENSIONS, QUANTITIES, COORDINATION OF THE WORK OF ALL TRADES, QUALITY CONTROL, AND CONSTRUCTION STANDARDS FOR THIS PROJECT.
9. ARCHITECT OR ENGINEERED STAMPED DRAWINGS CANNOT BE MODIFIED ANY WAY EXCEPT BY THE ARCHITECT OR ENGINEER. PLANS MODIFIED BY OTHERS WILL NOT BE ACCEPTED.
10. DIMENSIONS: WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS UNLESS NOTED OTHERWISE. ALL DIMENSIONS ARE SHOWN AS NOTED ON DRAWINGS FROM FACE OR CENTERLINE.
11. DRAWINGS SHALL NOT BE SCALED TO DETERMINE ANY DIMENSIONS. REFER ONLY TO WRITTEN INFORMATION AND DETAIL DRAWINGS, OR USE FIGURED DIMENSIONS. DIMENSIONAL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO CONSTRUCTION.
12. STRUCTURAL MEMBERS SHALL NOT BE CUT FOR PIPES, DUCTS, SLEEVES, ETC. UNLESS SPECIFICALLY NOTED OR DETAILED.
13. NO FIELD CHANGES WILL BE PERMITTED WITHOUT DIRECT WRITTEN AUTHORIZATION.
14. ALL ROADWAY MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE CURRENT EDITION AND ALL AMENDMENTS OF THE STATE OF WASHINGTON STANDARD SPECIFICATION FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, WSDOT STANDARD PLANS AND DETAILS, CITY OF PASCO STANDARD DETAILS AND THE PORT OF PASCO SPECIFICATIONS AND DETAILS. IN THE EVENT OF A CONFLICT, THE MOST RESTRICTIVE OF THESE PROVISIONS SHALL APPLY. SEE THE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION AND PROJECT SPECIFIC STANDARD DRAWINGS/DETAILS.
15. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL BE LICENSED AND BONDED TO DO WORK IN THE PUBLIC RIGHT-OF-WAY AND HAVE A CURRENT CITY OF PASCO BUSINESS LICENSE.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL CONSTRUCTION DEFICIENCIES FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE PORT OF PASCO OR AS SPECIFIED IN THE BID DOCUMENTS..

17. GRADING, ANY SAWCUTTING, INSTALLATION OF DRAINAGE STRUCTURES, PLACEMENT OF BASE COURSE, FRAMING, ETC. ARE INCLUDED IN THIS CONTRACT.
18. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, COUNTY, STATE AND FEDERAL JURISDICTION REQUIREMENTS. CONSTRUCTION SHALL CONFORM TO CURRENT EDITION OF THE INTERNATIONAL BUILDING CODE (IBC) AND ALL OTHER CODES AS LOCALLY ADOPTED AND AMENDED.
19. IN THE EVENT OF CONFLICT BETWEEN PERTINENT CODES AND REGULATIONS AND REFERENCED STANDARDS OF THESE DRAWINGS, THE MORE STRINGENT PROVISIONS SHALL GOVERN.
20. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DEVELOPING A SAFETY PLAN TO PROTECT WORKERS AND THE PUBLIC FROM INJURY OR HARM CONFORMING TO ALL LOCAL, STATE AND FEDERAL REQUIREMENTS AND FOR ENFORCING IT ON THE PROJECT SITE.
21. IF THERE IS ANY DISCREPANCY BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE MORE STRINGENT OR HIGHER VALUE ALTERNATIVE WILL TAKE PRECEDENT.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING AND MAINTAINING A DUST CONTROL PLAN. DUST CONTROL SHALL BE IN ACCORDANCE WITH ALL LOCAL ORDINANCES AND/OR WITH SECTION 2-07 OF THE STANDARD SPECIFICATIONS. WHEN UTILIZING A DIRECT CONNECTION TO A PUBLIC WATER SOURCE (I.E. FIRE HYDRANT METER, ETC.) NO IRRIGATION LINES OR OTHER IRRIGATION/SPRINKLING TYPE WATERING DEVICES ARE ALLOWED. DUST CONTROL TO BE DONE WITH A PERSON OPERATED WATERING DEVICE (I.E. WATER TRUCK, WATER WAGON, ETC.); AND NOT UNATTENDED WATER ALLOWED. THE CONTRACTOR CAN MAKE ARRANGEMENTS WITH CITY OF PASCO FOR APPLICABLE METERING DEVICES FOR WATER USAGE IF NOT ON PORT PROPERTY.
23. TEMPORARY EROSION CONTROL MEASURES SHALL BE PROVIDED AS NEEDED TO PREVENT RELEASE OF SEDIMENT INTO THE STORM SEWER OR ONTO ADJACENT SURFACES. DEBRIS AND SOIL SHALL BE SWEEPED FROM SURFACES WITHIN THE LIMITS OF CONSTRUCTION AT THE END OF EACH WORKING DAY. THESE MEASURES SHALL BE IN PLACE PRIOR TO CONSTRUCTION.
24. BEFORE BACKFILLING ANY SUBGRADE UTILITIES, THE CONTRACTOR SHALL RECORD THE LOCATION AND DEPTH OF SAID UTILITIES. THESE RECORDS SHALL BE MAINTAINED IN AN "AS BUILT" SET OF PLANS KEPT IN THE CONTRACTORS JOB SHACK.
25. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROCURE ALL APPLICABLE PERMITS, LICENSES AND CERTIFICATES RELATIVE TO THE TRADES TO COMPLETE THE PROJECT AND FOR THE USE OF SUCH WORK WHEN COMPLETED. COMPLIANCE SHALL BE AT ALL LEVELS, FEDERAL, STATE AND CITY, RELATING TO THE PERFORMANCE OF THIS WORK.
26. NOTIFY PORT OF PASCO MAINTENANCE DEPARTMENT PRIOR TO INTERRUPTION OF ANY BASE UTILITIES.

PROJECT BARRICADES

1. CONTRACTOR SHALL CONSTRUCT NECESSARY BARRICADES FOR PROTECTION OF PEDESTRIANS AND THE PUBLIC FROM CONSTRUCTION ACTIVITY.
2. CONTRACTOR SHALL MAKE DAILY INSPECTIONS OF BARRICADES TO ENSURE PROPER FUNCTIONING OF WARNING DEVICES.

MISCELLANEOUS

1. THE CONTRACTOR SHALL ONLY USE THOSE HYDRANTS BY THE AGENCY IN CHARGE OF THE WATER DISTRIBUTION AND IN STRICT ACCORDANCE WITH ITS REQUIREMENTS FOR HYDRANT USE. WATER APPLIED BY THE CONTRACTOR SHALL NOT BE FROM RESIDENTIAL SOURCES.

UTILITIES

1. ALL UTILITIES MUST BE VERIFIED PRIOR TO CONSTRUCTION. PRIOR TO ANY EXCAVATION, THE CONTRACTOR IS REQUIRED TO CALL THE UNDERGROUND ALERT CENTER AT 811 AT LEAST 2 BUSINESS DAYS PRIOR TO STARTING SUCH EXCAVATION.
2. IT SHALL BE THE CONTRACTOR'S OWN RESPONSIBILITY TO PROTECT, IN PLACE, ALL UTILITIES AND/OR THEIR STRUCTURES WHETHER OR NOT THEY ARE SHOWN ON THE PLANS. DAMAGE DUE TO THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO CURRENT AGENCY STANDARDS.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR WHEN IN THE VICINITY OF ANY UTILITY LINES TO NOTIFY ALL UTILITIES/AGENCIES WHEN CONSTRUCTION WORK BEGINS AND TO ARRANGE FOR A REPRESENTATIVE OF THE UTILITY/AGENCY TO BE PRESENT. THE CONTRACTOR SHALL COORDINATE ITS ACTIVITIES WITH ALL UTILITIES/AGENCIES.



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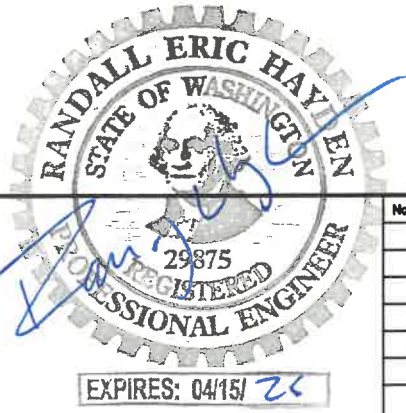
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PORT OF PASCO
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GENERAL NOTES


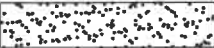
















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LEGEND

	EXISTING TRACK
	NEW GRAVEL APPROACH
	NEW CONCRETE DOCK
	GAS (SIZE WILL BE INDICATED ON DRAWINGS)
	TELEPHONE
	SANITARY SEWER
	STORM DRAIN
	OVERHEAD POWER
	UNDERGROUND POWER
	WATER LINE
	FIRE WATER LINE
	EXIST. POWER POLE W/ GUY WIRE
	EXISTING TELEPHONE RISER
	EXISTING UTILITY POLE
	LIGHT POLE
TR409	INDUSTRY TRACK NUMBERS
	WATER VALVE
	KEYNOTES
	EXISTING SANITARY SEWER MANHOLE

@	AT
APPROX.	APPROXIMATELY OR APPROXIMATE
ASPH.	ASPHALT
AVE	AVENUE
BNSF	BNSF RAILWAY
BVC	BEGINNING OF VERTICAL CURVE
CSG.	CASING
CL	CENTER LINE
C-	CURVE
CO	CLEAN OUT
CP	CLEAR POINT
CONC.	CONCRETE
CONST.	CONSTRUCTION
CSBC	CRUSHED SURFACING BASE COURSE
CSTC	CRUSHED SURFACING TOP COURSE
DIA.	DIAMETER
DGFITP	DESIGN GUIDELINES FOR INDUSTRIAL TRACK PROJECTS
DWG	DRAWING
EL.	ELEVATION
EVC	END OF VERTICAL CURVE
ELEV.	ELEVATION
(E)	EXISTING
EXIST.	EXISTING
FH	FIRE HYDRANT
GND	GROUND
HP	HIGH POINT
HT	HAND THROW
IE	INVERT ELEVATION
L	LENGTH
L.A.	LINEAR FEET
LH	LEFT HAND
LP	LOW POINT
LT.	LEFT
MH	MANHOLE
MIN.	MINIMUM
N.T.S.	NOT TO SCALE
NO.	NUMBER
O.C.	ON CENTER
OHP	OVERHEAD POWER
O/S	OFFSET FROM CENTERLINE
P.I.	POINT OF HORIZONTAL INTERSECTION
P.S.W.	POINT OF SWITCH
PP	POWER POLE (UTILITY POLE)
PVI	POINT OF VERTICAL INTERSECTION
R	RADIUS
RD	ROAD
REQ'D	REQUIRED
RH	RIGHT HAND
ROW	RIGHT OF WAY
RT	RIGHT
SSMH	SANITARY MANHOLE
STA.	STATION
T	TANGENT
T.F.	TRACK FEET
T.O.	TURNOUT
T.O.A.	TOP OF ASPHALT
T/R	TOP OF RAIL
TRK.	TRACK
TYP.	TYPICAL
VC	VERTICAL CURVE
W/	WITH
WV	WATER VALVE
XING	GRADE CROSSING

LEGEND



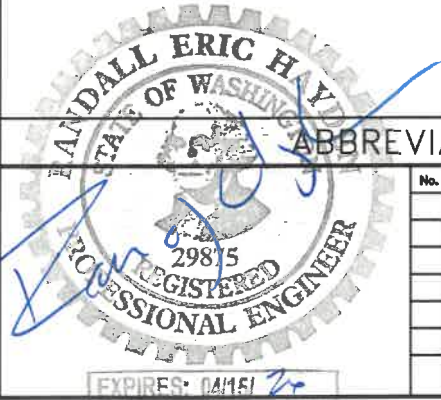
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LEGEND, ABBREVIATIONS, AND GENERAL SYMBOLOGY

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ABBREVIATIONS

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							G-03
							SCALE: AS NOTED
							CADFILE: G-03
							JOB No.
							REV. 



(E) DOOR OPENING, MAN DOOR & STAIRS TO BE REMOVED BY PORT



(E) DOOR OPENING, MAN DOOR & STAIRS TO BE REMOVED BY PORT



(E) ASPHALT & STORM GRATE TO BE PROTECTED BY CONTRACTOR



(E) STAIRS TO BE REMOVED BY PORT



(E) FOUNDATION WALL AT DOOR OPENING



(E) ASPHALT & STORM DRAIN



(E) DOOR OPENING, NORTH SIDE OF WAREHOUSE

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PHOTOGRAPHS-WH2B3

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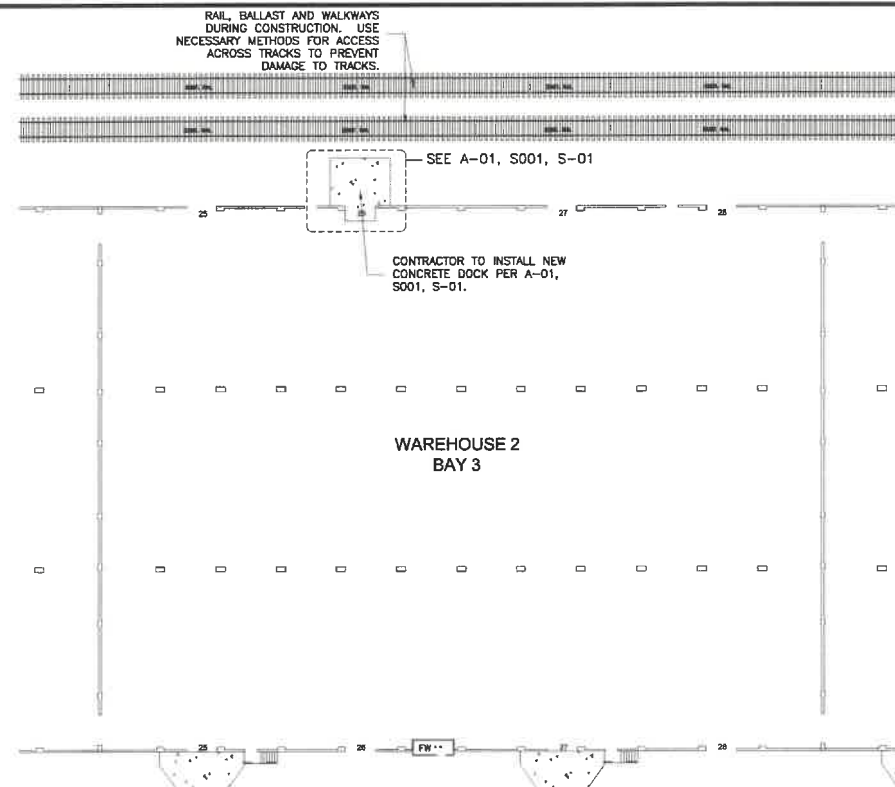
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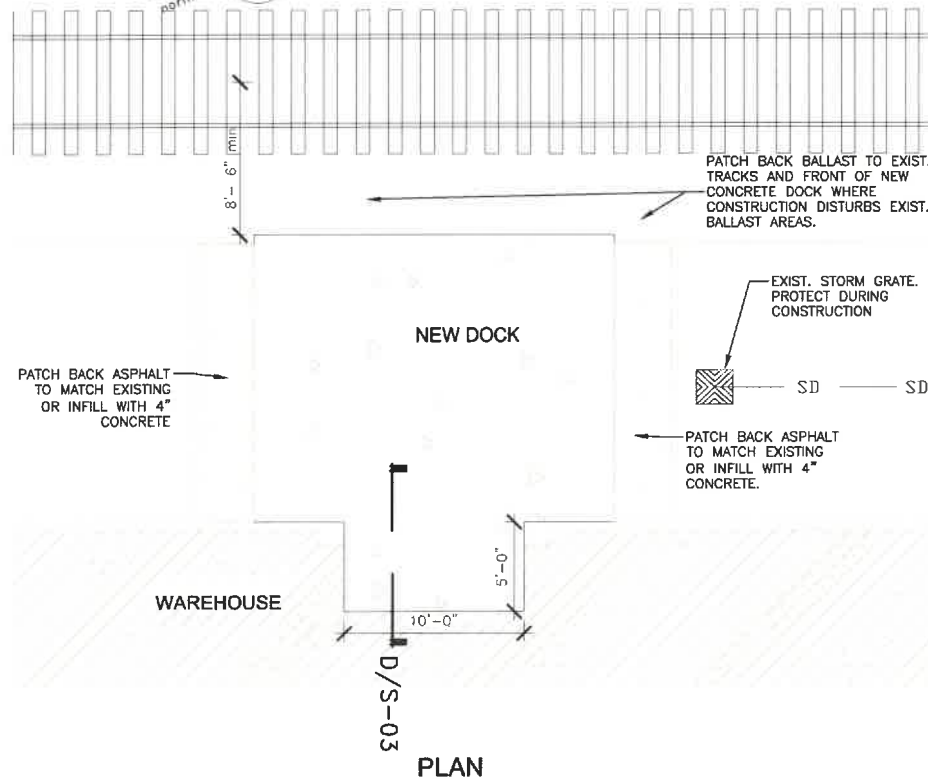
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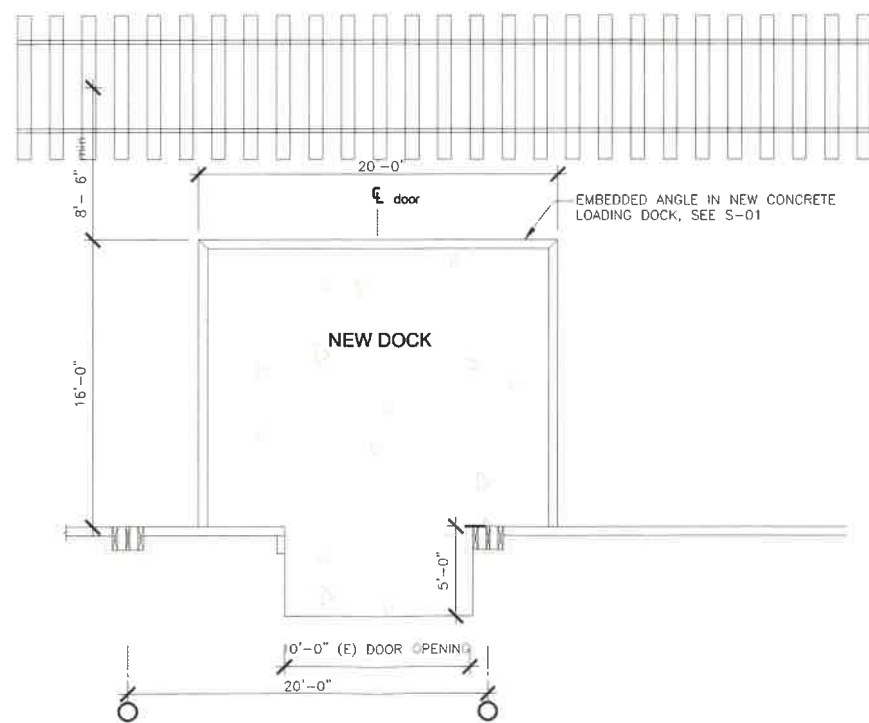
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1 PLAN VIEW WAREHOUSE 2 BAY 3 DOCK LOCATION
1/64"=1'-0"

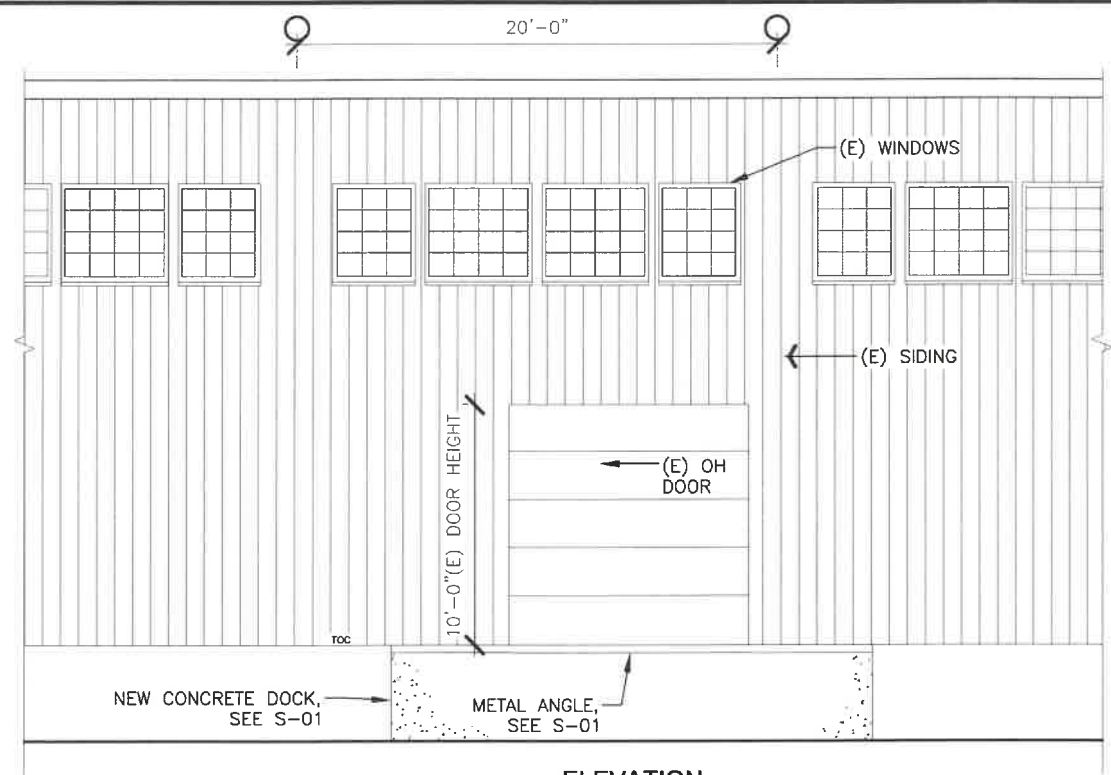


PLAN



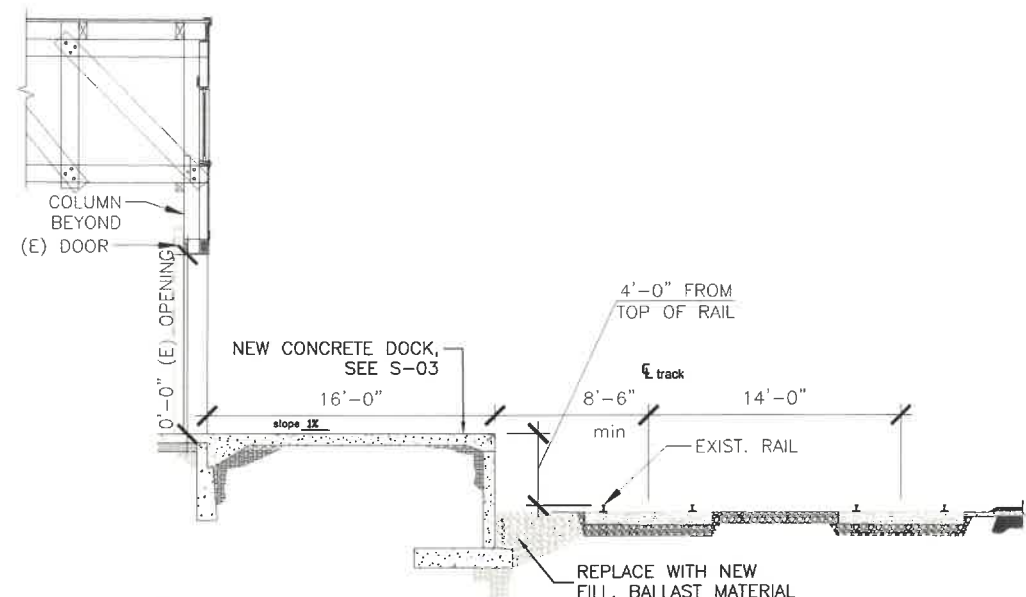
PLAN

3 PLAN & SECTION AT CONCRETE DOCK WH2B3
3/32"= 1'-0"



ELEVATION

2 ELEVATION WAREHOUSE 2 BAY 3 DOCK LOCATION
1/64"=1'-0"



SECTION

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GENERAL NOTES

1.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2021 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC) AND LOCAL RULES/STANDARDS OF GOVERNING AGENCIES HAVING JURISDICTION.
2.

THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND/OR SPECIFICATIONS.
3.

STATEMENT OF ERRORS, AMBIGUITIES AND OMISSIONS: ANY ERRORS, AMBIGUITIES, AND OMISSION IN DRAWINGS AND/OR SPECIFICATIONS SHALL BE REPORTED TO THE ENGINEER OF RECORD FOR CORRECTION BEFORE ANY PART OF THE WORK IS STARTED. SUBSTITUTION OR CHANGES WILL NOT BE ACCEPTED UNLESS APPROVED IN WRITING.
4.

CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF SITE CONDITIONS, INSTALLATION STANDARDS AND CONSTRUCTION CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO SHOP FABRICATION AND/OR FIELD ERECTION. DISCREPANCIES BETWEEN SITE CONDITIONS AND THE CONSTRUCTION DRAWINGS SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER. WORK DONE WITHOUT THE ENGINEERS APPROVAL IS THE RESPONSIBILITY OF THE CONTRACTOR.
5.

ALL SPECIAL INSPECTION AND TESTING SHALL BE PERFORMED BY AN INDEPENDENT INSPECTION AND TESTING AGENCY HIRED BY THE OWNER. CONTRACTOR TO COORDINATE WITH INSPECTION AND TESTING AGENCY FOR REQUIRED CONSTRUCTION INSPECTIONS AND MATERIAL TESTING.
6.

THE STRUCTURAL INTEGRITY OF THIS STRUCTURE IS DESIGNED TO BE ATTAINED IN IT'S COMPLETED STATE. WHILE UNDER CONSTRUCTION, ALL TEMPORARY BRACING AND/OR SHORING REQUIRED TO MAINTAIN STABILITY PRIOR TO COMPLETION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, INCLUDING DESIGN AND INSTALLATION.
7.

THE DIMENSIONS, LOCATIONS, AND ELEVATIONS OF ANY EXISTING STRUCTURES WHICH RELATE TO OR INFLUENCES NEW CONSTRUCTION SHALL BE VERIFIED BY FIELD MEASUREMENT BY THE CONTRACTOR PRIOR TO PREPARATION AND SUBMISSION OF CHECKED SHOP DRAWINGS TO THE ENGINEER OF RECORD FOR REVIEW.
8.

PROTECTION OF EXISTING STRUCTURES DURING THE COURSE OF THE CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
9.

PRIOR TO DIGGING VERIFY LOCATION AND DEPTH OF UTILITIES AND OTHER UNDERGROUND INTERFERENCES. CALL TWO BUSINESS DAYS BEFORE YOU DIG AT 811.
10.

PLAN DIMENSIONS PROVIDED ARE TO FACE OF STUD.
11.

DESIGN CRITERIA (PER 2021 IBC AND ASCE 7-10, and per Local Jurisdiction having Authority)

1. VERTICAL LOADS:

- A. DEAD LOADS:

ROOF (FLAT)

10 PSF
- B. SNOW LOADS (IBC 1608):

GROUND SNOW LOAD

Ps=20

PSF

UNIFORM ROOF SNOW LOAD

Pm=20

PSF
- SNOW EXPOSURE FACTOR:

Ce=1.0

SNOW LOAD IMPORTANCE FACTOR:

Is=1.0

THERMAL FACTOR:

Ct=1.0

2. LATERAL LOADS:

- A. WIND DESIGN LOAD DATA: (PER ASCE 7-10 AND IBC 2018)

VELOCITY (3-SEC.-GUST)

110 MPH / V (ASD) = 85 MPH

V (ULT) =

EXPOSURE

C

RISK CATEGORY

II

INTERNAL PRESSURE COEFFICIENT

±0.18

FOUNDATIONS

1.

FOUNDATION DESIGN BASED ON AN ALLOWABLE SOIL BEARING OF 2,000 PSF.

CONCRETE

1.

CONCRETE SLABS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 FSI AT 3 DAYS. ALL OTHER CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
2.

CAST IN PLACE CONCRETE SHALL MEET THE FOLLOWING REQUIREMENTS:

ACI 117 -

STANDARD SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS.

ACI 301 -

SPECIFICATIONS FOR STRUCTURAL CONCRETE.

ACI 302.1R -

GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION.

ACI 305R -

HOT WEATHER CONCRETING.

ACI 306 R-

COLD WEATHER CONCRETING.
3.

ALL CONCRETE USED IN HORIZONTAL SURFACES EXPOSED TO THE WEATHER SHALL CONTAIN AN ACCEPTABLE ADMIXTURE TO PRODUCE AIR-ENTRAINED CONCRETE WITH A TOTAL OF 4.5 PERCENT AIR CONTENT.
4.

THE USE OF SUPER PLASTICIZERS AND WATER REDUCERS IS ALLOWED, BUT NOT REQUIRED. ALL ADMIXTURES SHALL BE

CHLORIDE FREE.

5.

ALL REINFORCING STEEL SHALL BE GRADE 60 DEFORMED BARS COMPLYING WITH ASTM SECTION A615. REINFORCING STEEL WHICH IS INDICATED ON THE PLANS AS BEING WELDED SHALL COMPLY WITH ASTM A706, AND SHALL ALSO BE DEFORMED. WELDING OF REINFORCING BARS SHALL BE PER AWS D1.4.
6.

ALL DETAILING, FABRICATION AND PLACEMENT OF REINFORCING STEEL SHALL COMPLY WITH THE REQUIREMENTS OF THE ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI-SP-66).
7.

THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:

A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"

B. CONCRETE EXPOSED TO EARTH OR WEATHER: #6 THROUGH #18 BARS: 2" #5 BAR, W31 OR D31 WIRE AND SMALLER: 1 1/2"

C. REINFORCING SHALL EXTEND TO THE END OF THE CONCRETE AND MAINTAIN THE COVER LISTED ABOVE AT THE ENDS.
8.

ALL EXPOSED CORNERS OF CONCRETE SHALL BE FORMED INTO A 3/4" x 45 DEGREE CHAMFER, OR SCRIBED WITH A CONCAVE TOOLING DEVICE UNLESS NOTED OTHERWISE.
9.

THOROUGHLY CLEAN FORMS AND ADJACENT SURFACES TO RECEIVE CONCRETE. REMOVE CHIPS, WOOD, SAWDUST, DIRT, OR ANY OTHER DEBRIS PRIOR TO CONCRETE PLACEMENT.
10.

CLEAN REINFORCING OF LOOSE RUST, MILL SCALE, DIRT, OR ANY OTHER FOREIGN MATERIAL. ACCURATELY POSITION, SUPPORT AND SECURE REINFORCEMENT.
11.

PROPORTION AND DESIGN MIXES TO RESULT IN CONCRETE SLUMP AT POINT OF PLACEMENT NOT LESS THAN 3" AND NOT MORE THAN 5" PRIOR TO SUPERPLASTICIZER. ADDITION OF WATER TO READY-MIX CONCRETE IN THE FIELD SHALL BE ALLOWED IF ON TRIP TICKET BEFORE DISCHARGE AND TESTING.
12.

DEPOSIT CONCRETE IN A CONTINUOUS OPERATION UNTIL THE PLACING OF CONCRETE IS COMPLETE. IF THE POUR IS: TO BE DISCONTINUOUS, CONTRACTOR SHALL USE CONSTRUCTION JOINTS, AS DETAILED ON THE DRAWINGS OR APPROVED BY THE ENGINEER.
13.

REPAIR ALL SURFACE DEFECTS INCLUDING TIE HOLES, MINOR HONEYCOMBING AND OTHER VISUAL IRREGULARITIES WITH CEMENT MORTAR. MORTAR FOR PATCHING SHALL BE THE SAME COMPOSITION AS THAT USED IN THE CONCRETE. PATCHING SHALL BE DONE AS SOON AS THE FORMS ARE REMOVED.

STEEL

1.

STRUCTURAL STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:

A. ALL W & WT SHAPES SHALL CONFORM TO A992 (50 KSI)

B. ALL PLATES, CHANNELS, ANGLES, BARS AND FLATS

- SHALL CONFORM TO A36 (36 KSI)

C. ALL HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO A500, GRADE B (46 KSI) (46 KSI FOR SHAPED & 42 KSI FOR ROUND)

D. ALL STEEL PIPE SHALL CONFORM TO A53, GRADE B (35 KSI)

2.

ALL DETAILING, FABRICATION, AND ERECTION OF STRUCTURAL STEEL SHALL COMPLY WITH THE REQUIREMENTS OF THE AISC LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.
3.

ALL FIELD CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER HIGH STRENGTH BOLTS (A325) UNLESS OTHERWISE NOTED ON THE DRAWING. THE MINIMUM NUMBER OF BOLTS PER CONNECTION SHALL BE TWO (2). BOLTED CONNECTIONS SHALL BE "SNUG TIGHT".
4.

ERECTION AND FABRICATION SHOP DRAWINGS FOR STRUCTURAL STEEL, JOISTS, AND JOIST GIRDERS WILL BE REVIEWED BY THE ENGINEER OF RECORD PRIOR TO COMMENCING FABRICATION. ALL DRAWINGS ARE TO BE CHECKED BY THE CONTRACTOR PRIOR TO BEING SUBMITTED FOR THE ENGINEER OF RECORD'S REVIEW.
5.

BOLT HOLES SHALL BE BOLT DIAMETER + 1/16". BOLT END AND EDGE DISTANCES AND BOLT LENGTHS SHALL BE PER AISC, UNLESS NOTED OTHERWISE. BASE PLATE BOLT HOLES MAY BE OVERSIZED BY 1/8".
6.

ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS AND PROCEDURES OF THE AMERICAN WELDING SOCIETY BY AWS CERTIFIED WELDERS AND SHALL CONFORM TO AWS D1.1:2010. WELDERS PERFORMING THE WORK SHALL HAVE BEEN RE-TESTED WITHIN 6 MONTHS PRIOR TO THE START OF STEEL FABRICATION. WELDING FOR STRUCTURAL STEEL SHALL BE MADE WITH E70XX LOW HYDROGEN ELECTRODES. WELDING FOR ATTACHING STEEL DECKING MAY BE MADE WITH E60 ELECTRODES.
7.

FIELD WELDING SYMBOLS HAVE NOT NECESSARILY BEEN INDICATED ON THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE USE OF SHOP AND FIELD WELDING.
8.

HOLES SHALL NOT BE CUT THROUGH BEAMS UNLESS INDICATED OR PRE-APPROVED BY THE ENGINEER OF RECORD IN WRITING.
9.

ALL STRUCTURAL AND MISCELLANEOUS STEEL EXPOSED TO WEATHER SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
10.

PAINT ALL FERROUS METALS FOR EXTERIOR EXPOSURE.
- TIMBER

1.

SEE IBC FASTENING SCHEDULE (TABLE 2304.10.1) FOR GENERAL FRAMING NAILING REQUIREMENTS AND REFER TO FRAMING NAIL SCHEDULE PROVIDED FOR NAIL REQUIREMENTS.

2.

TIMBER MATERIALS SHALL CONFORM TO THE FOLLOWING GRADES UNLESS NOTED OTHERWISE:

A. WALL STUDS, TOP PLATES, BOTTOM PLATES, BEAMS,
- COLUMNS, AND MISCELLANEOUS LIGHT FRAMING SHALL BE DOUGLAS FIR-LARCH #2 OR BETTER.

B. GLULAM BEAMS (GLB) SHALL BE 24F-V4 DF/DF.

C. LAMINATED VENEER LUMBER (LVL) SHALL BE WESTERN SPECIES, 1.8E,F_b=2,600 PSI.
3.

ALL NAILING REQUIREMENTS LISTED ARE BASED UPON THE USE OF COMMON WIRE NAILS (NOT SINKERS, BOX, ETC.) UNLESS NOTED OTHERWISE. ALTERNATIVE NAIL TYPES OF EQUIVALENT DIAMETERS MAY BE SUBSTITUTED, WITH PRIOR APPROVAL OF THE ENGINEER OF RECORD.

4.

TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE BY SIMPSON STRONG-TIE COMPANY, AS SPECIFIED IN THE LATEST EDITION OF THEIR CATALOG. PROVIDE NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY THE MANUFACTURER. SUBSTITUTION OF MANUFACTURED PRODUCT IS PERMITTED WITH WRITTEN APPROVAL OF THE ENGINEER OF RECORD.

5.

ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A307. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD.
- GENERAL NOTES
- C/C

CENTER TO CENTER

DIA

DIAMETER

(E)

EXISTING

HSS

HOLLOW STRUCTURAL SECTION

TYP

TYPICAL
- ABBREVIATIONS
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PASCO, WA

STRUCTURAL GENERAL NOTES AND ABBREVIATIONS

APPROVAL		
DRAWN	TF	11/4/24
DESIGN		
CHECKED		
APPROVED		

No.	REVISIONS	DATE	DRWN	CHKD	DESIGN	APPD	DWG. No.
							S001
							SCALE: AS NOTED
							CAD FILE: S001
							JOB No.
							REV. 0

