

Development Services

From Concept to Construction

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APPEAL SUMMARY

Status: Decision Rendered - Reconsideration of ID 26490

Appeal ID: 27522	Project Address: 12005 N Burgard Rd
Hearing Date: 2/16/22	Appellant Name: Kenny Dupuis
Case No.: B-011	Appellant Phone: 5036438595
Appeal Type: Building	Plans Examiner/Inspector: Geoff Harker
Project Type: commercial	Stories: 1 Occupancy: F-2 Construction Type: II-B
Building/Business Name: Schnitzer L3DS Building	Fire Sprinklers: No
Appeal Involves: Erection of a new structure, Reconsideration of appeal	LUR or Permit Application No.: 21-081428-CO
Plan Submitted Option: pdf [File 1]	Proposed use: Equipment enclosure

APPEAL INFORMATION SHEET

Appeal item 1

Code Section	OSSC 2902.3.3
Requires	<p>Ref 41 to 42</p> <p>OSSC 2902.3.3 Exception 2 - Location of Toilet Facilities</p> <p>In factory and industrial occupancies, location of toilet facilities are permitted to exceed that required by this section, provided that the location and maximum distance of travel are approved.</p> <p>RECONSIDERATION TEXT:</p> <p>2902.3.3 states "In occupancies other than covered and open mall buildings, the required public and employee toilet facilities shall be... and the path of travel to such facilities shall not exceed a distance of 500 feet.</p> <p>Exception 1 states the facilities can be in an adjacent building on the same property with travel distance not exceeding 300 feet.</p>
Code Modification or Alternate Requested	<p>OSSC 2902.3.3 Exception 2 - Location of Toilet Facilities</p> <p>We propose that the toilet facilities included in the adjacent heavy media building are designated as facilities to be used for the new 3DS building. The accessible route is approximately 300 feet as shown in drawing 106 rev1.</p> <p>RECONSIDERATION TEXT:</p> <p>We propose using the 500 feet allowable travel distance to toilet facilities per 2902.3.3, combined with exceptions 1 and 2. 500 travel distance to an adjacent building fits the use of this site.</p>
Proposed Design	N/A

Reason for alternative OSSC 2902.3.3 Exception 2 - Location of Toilet Facilities

The 3DS building will only be accessed for maintenance of the enclosed equipment, therefore we think the accessible toilet facilities provided in the heavy media building are close enough for employees.

RECONSIDERATION TEXT:

The 3DS building is primarily an enclosure for mixed metal sorting equipment, see drawing 20-333B-110. The equipment is comprised of conveyor belts, shakers, screens and water sorting pieces that do not require personnel to operate or function. In fact, the only reason for employees to be in the building is to perform maintenance and clean up functions. The building will be unconditioned (appeal #2 approved) and is currently proposed with no sanitary sewer connections because sewer is needed for the sorting process.

Per Ch. 10 Table 1004.5, the occupant load for industrial areas is 1 per 100 gross sq ft of area, or 190 for the 19,000 sq ft 3DS building. In my opinion, this building is really more like a warehouse which would require 1 per 500 sq ft for an occupant load of 38. In fact, the owner forecasts needing only 7 employees per shift, to perform housekeeping and maintenance activities in the building. The difference between 7 and 190 employees is significant. We think that for the 7 employees working in the building, traveling about 270 feet exposed to the elements from 3DS door to Heavy Media door is adequate and matches up with the rest of the site layout, heavy industrial metal recycling. This facility is not an occupancy where workers are actively fabricating, assembling or processing materials, equipment performs this function.

APPEAL DECISION

Location of required toilet facilities to serve new 3DS building in separate heavy media building: Denied. Proposal does not provide equivalent sanitary protection. Appellant may contact John Butler (503 865-6427) or e-mail at John.Butler@portlandoregon.gov with questions.

Pursuant to City Code Chapter 24.10, you may appeal this decision to the Building Code Board of Appeal within 90 calendar days of the date this decision is published. For information on the appeals process, go to www.portlandoregon.gov/bds/appealsinfo, call (503) 823-7300 or come in to the Development Services Center.

GENERAL NOTES AND SPECIFICATIONS

STRUCTURAL DRAWINGS ARE A PORTION OF THE CONTRACT DOCUMENTS AND ARE INTENDED TO BE USED WITH GRADING, MECHANICAL, AND ELECTRICAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE REQUIREMENTS FROM THESE DRAWINGS INTO THE SHOP DRAWINGS AND WORK.

THESE GENERAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THE GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.

GENERAL SPECIFICATIONS

- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE IBC (2018 EDITION), OREGON STRUCTURAL SPECIALTY CODE (2019 EDITION) AND THESE CONTRACT DRAWINGS AND SPECIFICATIONS. IN THE EVENT OF CONFLICT, THE ENGINEER SHALL BE NOTIFIED. THE MORE STRINGENT WILL GENERALLY APPLY.
- DIMENSIONS AND ELEVATIONS OF EXISTING STRUCTURES ARE GIVEN FOR REFERENCE ONLY AND THE CONTRACTOR SHALL FIELD VERIFY AS REQUIRED.
- THE CONTRACTOR SHALL FOLLOW MANUFACTURER'S INSTRUCTIONS FOR THE INSTALLATION OF PURCHASED MATERIALS AND EQUIPMENT.
- SEE CONTRACT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR SHALL COORDINATE SEISMIC RESTRAINTS OF MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT, MACHINERY, AND ASSOCIATED PIPING WITH THE STRUCTURE.
- FIELD ENGINEERED DETAILS DEVELOPED BY THE CONTRACTOR THAT DIFFER FROM OR ADD TO THE STRUCTURAL DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN OREGON AND SHALL BE SUBMITTED TO THE EOR PRIOR TO CONSTRUCTION.
- FOR ELECTRICAL INFORMATION, SEE ELECTRICAL DRAWINGS.
- THE GENERAL INSTALLATION CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE SITE. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER AND BE RESOLVED PRIOR TO PROCEEDING WITH THE WORK.

GENERAL NOTES-CIVIL

- CONTRACTOR SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE STATE, CITY AND OSHA CONSTRUCTION SAFETY ORDERS.
- THE CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING ROADWAYS WITH A SMOOTH TRANSITION IN PAVING, GRADING, ETC. AND TO AVOID ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS SLOPES, LOW SPOTS, OR HAZARDOUS CONDITIONS OR AS MAY BE DIRECTED BY THE CITY ENGINEER.
- ALL GENERAL CONTRACTORS AND SUBCONTRACTORS SHALL HAVE A CITY OF PORTLAND, OR BUSINESS LICENSE.
- APPROVAL OF THESE PLANS BY THE CITY ENGINEER SHALL NOT RELIEVE THE DEVELOPER OR HIS ENGINEER FROM THE RESPONSIBILITY FOR THE DESIGN OF THE IMPROVEMENTS AND FOR ANY DEFICIENCIES RESULTING FROM THE DESIGN THEREOF.
- REVISIONS TO THESE PLANS SHALL BE SUBMITTED ON THE ORIGINALS TO THE CITY ENGINEER FOR APPROVAL AND SIGNATURE. THEN THREE COPIES OF APPROVED REVISED PLAN SHALL BE SUBMITTED TO THE CITY ENGINEER PRIOR TO CONSTRUCTION IN THE FIELD. A COPY OF APPROVED AS-BUILT PLANS SHALL BE SUBMITTED TO THE CITY AND THE OWNER UPON FINAL CITY APPROVAL OF THE COMPLETED PROJECT.
- THE CONTRACTOR IS REQUIRED TO NOTIFY ALL UTILITIES 48 HOURS PRIOR TO COMMENCEMENT OF WORK.

BUILDING CODE SUMMARY

CODES:	
OSSC 2019	OREGON STRUCTURAL SPECIALTY CODE
ASCE 7-16	MINIMUM DESIGN LOADS & ASSOCIATED CRITERIA FOR BUILDINGS & OTHER STRUCTURES
ACI 318-14	BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
AISC 341-16	SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS
AISC 360-16	SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
OESC 2021	OREGON ENERGY EFFICIENCY SPECIALTY CODE

L3DS BUILDING:	
AREA	= 19,000 SQ. FT.
OCCUPANCY CATEGORY	= F-2
OCCUPANT LOAD	= 190 OCCUPANTS (IBC 2018 TABLE 1004.5)
(NS) BUILDING NOT EQUIPPED THROUGHOUT WITH AN AUTOMATIC FIRE SPRINKLER SYSTEM	
CONSTRUCTION TYPE	= TYPE II-B
FIRE RESISTANCE RATING FOR BUILDING ELEMENTS:	
PRIMARY STRUCTURAL FRAME	= 0 HOURS
ROOF CONSTRUCTION	= 0 HOURS
ALLOWABLE BUILDING AREA (Aa)	= UNLIMITED (IBC SECTION 507.3, ONE STORY, YARD > 60 FT.)
ALLOWABLE HEIGHT	= 55 FT. (IBC TABLE 504.3)

BUILDING IS NOT CONDITIONED, SEE BUILDING CODE APPEAL ID 26490, APPEAL ITEM 2.

PLUMBING FACILITIES ARE PROVIDED IN BUILDING THE HEAVY MEDIA BUILDING A, REFERENCE PERMIT 20-218897-CO. SEE SMG DRAWING 106 AND BUILDING CODE APPEAL ID 26490, APPEAL ITEM 1.

MEANS OF EGRESS:

EXIT ACCESS TRAVEL DISTANCE = 300 FT. MAXIMUM (IBC TABLE 1017.2)

EQUIPMENT PLATFORM BUILDING SQ. FT. = 19,000 SQ. FT. - PLATFORM SQ. FT. = 8,000 SQ. FT. PLATFORM IS 42% OF BUILDING SQ. FT.

NONCONFORMING UPGRADES

REFERENCE PERMIT 20-170733-CO FOR BUILDING A THAT ADDRESSES THE REQUIRED UPGRADES TO EXISTING NONCONFORMING DEVELOPMENT ON SITE

DEFERRED SUBMITTALS

CUSTOM TANKS
EQUIPMENT ANCHORAGE
PLUMBING/FIXTURES

GEOTECHNICAL FOUNDATIONS AND GENERAL SITE WORK

- REFER TO GEOTECHNICAL REPORT DATED 03/15/2021 BY GEODESIGN INC. PROJECT "SCHNITZER-3-01."
- LOCATION OF PROPERTY/LEASE LINES, EXISTING STRUCTURES, SITE FEATURES AND UNDERGROUND UTILITIES ARE DRAWN FROM THE BEST AVAILABLE DATA. THIS DOES NOT GUARANTEE LOCATIONS OR ELEVATIONS ARE ACCURATE OR COMPLETE.
- CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND FEATURES PRIOR TO COMMENCING WITH CONSTRUCTION. NOTIFY THE ENGINEER IF LOCATIONS ARE OTHER THAN INDICATED ON THE DRAWINGS.
- CONTRACTOR TO PROVIDE FOR DEWATERING DURING CONSTRUCTION, AS REQUIRED.
- CLEAN FREE DRAINING GRAVEL AS NOTED ON DRAWINGS SHALL BE 3/4" COMPACTED NON-FROST SUSCEPTIBLE FREE DRAINING CLEANED GRAVEL FILL.
- COMPACTED GRAVEL NOTED ON DRAWINGS SHALL BE 3/4" MINUS COMPACTED CRUSHED ROCK.
- HOT MIX ASPHALT CONCRETE SHALL MEET AASHTO M-320 CLASS A SPECIFICATIONS.
- ALL EXCAVATION SHALL BE DONE IN SUCH A MANNER AS TO PRESERVE THE UNDISTURBED SOIL CONDITIONS AT THE UNDERSIDE OF THE FOUNDATIONS.
- ALL STRUCTURES ARE DESIGNED TO BE FOUNDED AT THE ELEVATIONS AND LOCATIONS SHOWN ON THE DRAWINGS AND MUST BE SUPPORTED ON SOLID UNDISTURBED NATIVE GROUND, COMPACTED STRUCTURAL FILL, OR LEAN CONCRETE HAVING AN ALLOWABLE BEARING CAPACITY AS NOTED ON THE PROJECT GEOTECHNICAL REPORT.
- WITH REFERENCE TO ORIGINAL DESIGN DRAWINGS AND SOILS REPORTS FOR OTHER AREAS ON THIS SITE. THE DESIGN SAFE BEARING CAPACITY IS ASSUMED TO BE 1650 PSF WITH SITE CLASS E.
- PROTECT FOUNDATION SOIL FROM DETERIORATION DUE TO WATER.
- ANY OVER-EXCAVATION OF FOUNDATION GRADES MUST BE MADE GOOD WITH LEAN MIX CONCRETE OR WITH COMPACTED STRUCTURAL FILL TO ACHIEVE THE DESIGN BEARING PRESSURES.
- WHERE REQUIRED, PLACE BACKFILL SIMULTANEOUSLY ON BOTH SIDES OF WALLS, GRADE BEAMS AND BURIED STRUCTURES TO AVOID UNBALANCED LOADING.
- BASE PREPARATION:
 - THE BASE OF EXCAVATIONS SHALL BE RE-COMPACTED AND CLEARED OF LOOSE MATERIAL BEFORE PLACING CONCRETE. A MAT OF MINIMUM 4 INCH THICK LEAN CONCRETE SHOULD BE USED IF THE EXCAVATIONS ARE LEFT OPEN FOR MORE THAN 24 HOURS.
 - COMPACT THE BASE OF THE EXCAVATION TO 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT OR AS PER GEOTECHNICAL ENGINEER'S RECOMMENDATION.
 - SOFTENED OR DETERIORATED SUBSOIL SHALL BE REMOVED AND REPLACED BY LEAN CONCRETE MIX OR COMPACTED STRUCTURAL FILL, AS DIRECTED BY THE GEOTECHNICAL CONSULTANT.

DESIGN CRITERIA

STRUCTURAL DESIGN WAS BASED ON THE STRENGTH AND DEFLECTION CRITERIA OF THE 2018 IBC AND 2019 OSSC MODIFICATIONS. IN ADDITION TO THE SELF-WEIGHT OF THE STRUCTURAL ELEMENTS, THE FOLLOWING LOADS AND CRITERIA WERE USED:

DESIGN LOADS:

RISK CATEGORY II

DEAD LOAD

ACTUAL WEIGHT OF MATERIALS OF CONSTRUCTION AND PERMANENT EQUIPMENT

LIVE LOAD

ACCESS PLATFORMS 100 PSF UNIFORM
2,000 LB CONCENTRATED

SNOW LOAD

GROUND SNOW LOAD 10 PSF
ROOF SNOW LOAD 25 PSF (INCLUDED 5 PSF RAIN SURCHARGE)

WIND LOAD

BASE WIND SPEED 98 MPH
WIND EXPOSURE C

SEISMIC LOAD

MAPPED SPECTRAL RESPONSE ACCELERATION
SHORT PERIOD, Ss 0.891g
1 SECOND PERIOD, S1 0.410g
SITE CLASS E
SPECTRAL RESPONSE COEFFICIENTS
SHORT PERIOD, Sds 0.772
1 SECOND PERIOD, Sd1 0.651
SEISMIC DESIGN CATEGORY D

SOIL LOAD BEARING

ALLOWABLE BEARING PRESSURE 2,000 PSF LONG TERM LOADS
3,000 PSF SHORT TERM LOADS

SUBGRADE REACTION MODULUS PER GEOTECH REPORT

FLOOD LOAD (FOR EQUIPMENT AND STRUCTURES BELOW EL. 34.5 FT. NAVD88)

NAV88
BASE 100 YEAR FLOOD ELEVATION 31.0 FT
1996 FLOOD INUNDATION ELEVATION 32.5 FT
FLOOD PROTECTION ELEVATION (2 FT FREEBOARD) 34.5 FT
BUOYANCY FORCE (DISPLACED VOLUME) 62.4 PCF
HYDROSTATIC PRESSURE 62.4 PCF

LOAD COMBINATIONS:

APPLICABLE FACTORS AS LISTED IN ASCE 7-16

THIS DRAWING, INCLUDING THE PRINCIPLES OF DESIGN IS THE PROPERTY OF SMG INC. THE DESIGN SHOWN IN THIS DRAWING IS SITE SPECIFIC AND SHALL BE USED ONLY FOR THE PROJECT SHOWN ON THE TITLE BLOCK. IF THIS DRAWING IS NOT STAMPED WITH AN ENGINEER'S SEAL, THE DRAWING MAY HAVE BEEN REPRODUCED FROM AN UNAUTHORIZED COPY. AUTHORIZED CONTROL DOCUMENT IS EITHER A STAMPED HARD COPY OR DIGITALLY PROTECTED ORIGINAL. THIS DRAWING SHALL NOT BE USED IN A MANNER THAT WOULD BE A DETRIMENT TO SMG. ACCEPTANCE OF THIS DRAWING IS AN AGREEMENT TO THE ABOVE.

NO.	REVISIONS	BY	DATE	CHK'D
2	ADDED BUILDING CODE APPEAL NOTES	KD	2/22/2022	KD
1	ISSUED FOR COP PERMIT COMMENTS	AJP	12/17/2021	KD
0	ISSUED FOR PERMIT	AJP	8/13/2021	KD
SYM.				

REINFORCED CONCRETE

- ALL CONCRETE AND REINFORCING STEEL SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE STANDARD ACI-318-14.
- READY-MIXED CONCRETE SHALL BE MIXED AND DELIVERED TO THE JOB SITE IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN "SPECIFICATIONS FOR READY-MIXED CONCRETE" (ASTM C94).
- ALL CONCRETE SHALL BE CONSOLIDATED BY SUITABLE MEANS DURING PLACEMENT AND SHALL BE THOROUGHLY WORKED AROUND REINFORCEMENT, EMBEDDED FIXTURES AND INTO CORNERS OF FORMS.
- CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS.
- REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 UNCOATED DEFORMED BAR, UNLESS NOTED OTHERWISE. REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706. COLUMN SPIRALS SHALL BE PLAIN OR DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60. REINFORCING STEEL SHALL BE SECURELY TIED IN PLACE WITH #16 ANNEALED IRON WIRE.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185/185M-07.
- NO CONCRETE ADMIXTURES SHALL BE USED WITHOUT PRIOR APPROVAL OF THE ENGINEER OR AS SPECIFIED IN THESE SPECIFICATIONS.
- ALL PROPOSED COLD JOINTS TO BE REVIEWED BY THE ENGINEER. ALL COLD JOINTS TO BE ROUGHENED AND CLEANED.
- BARS IN SLABS SHALL BE SUPPORTED ON WELL-CURED CONCRETE BLOCKS, METAL OR PLASTIC CHAIRS, AS SPECIFIED BY THE CRSI MANUAL OF STANDARD PRACTICE, MSP-1. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE "ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," ACI 315. LAP ALL REINFORCING BARS PER THE TYPIORL LAP SPLICE LENGTH SCHEDULE, EXCEPT AS NOTED.
- MAXIMUM SLUMP SHALL BE 4 INCHES.
- PLACEMENT OF STEEL SHALL BE AS SHOWN ON THE DETAILS AND WITHIN A TOLERANCE OF $\pm 3/8"$ FOR DEPTH OR SPACING AND $- 3/8"$ FOR COVER.
- ALL EXPOSED CONCRETE CORNERS SHALL HAVE A 3/4" CHAMFER UNLESS NOTED OTHERWISE.
- ALL FORMS SHALL BE CLEAN, WITH NO WATER OR LOOSE MATERIAL PRESENT.
- ALL CONCRETE EMBEDMENTS SHALL BE CLEAN, RUST FREE AND OIL FREE.
- CONCRETE COVER FOR REINFORCING STEEL AND OTHER EMBEDDED STEEL SHALL BE AS SHOWN ON DRAWING. IF NOT SHOWN, USE CONCRETE COVER AS SPECIFIED IN ACI 318, AS NOTED BELOW:

CONCRETE CAST AGAINST EARTH	3 INCHES
CONCRETE EXPOSED TO EARTH OR WEATHER	
#5 BAR AND SMALLER	1 1/2 INCHES
#6 BAR AND LARGER	2 INCHES
CONCRETE NOT EXPOSED TO EARTH OR WEATHER	
#14 AND #18 BARS	1 1/2 INCHES
#11 BAR AND SMALLER	3/4 INCHES
- ALL FOOTINGS SHALL BE PLACED ON 2' OF GRANULAR STRUCTURAL FILL PER GEOTECH REPORT.
- REINFORCEMENT SPLICE LENGTHS SHALL BE AS NOTED ON DRAWINGS. IF NOT SHOWN, SPLICE LENGTHS FOR UNCOATED REBAR SHALL BE AS NOTED BELOW:

BAR	CLASS A	CLASS B
#4	19"	25"
#5	24"	31"
#6	29"	37"
#7	41"	54"
#8	47"	61"
#9	53"	69"
#10	59"	77"
- CONCRETE SHALL NOT BE CAST WHEN THE AMBIENT OUTSIDE TEMPERATURE IS 40 DEGREES FAHRENHEIT OR LESS. CONCRETE SHALL BE PROTECTED FROM FREEZING FOR 24 HOURS AFTER CASTING. COLD WEATHER PLACEMENT OR CONCRETE SHALL BE PERMITTED IF A PROCEDURE, COMPLYING WITH ACI 308.1-90, IS SUBMITTED TO AND APPROVED BY THE ENGINEER.
- DURING HOT WEATHER, PROPER ATTENTION SHALL BE GIVEN TO INGREDIENTS, PRODUCTION METHODS, HANDLING, PLACING, PROTECTION, AND CURING TO PREVENT EXCESSIVE CONCRETE TEMPERATURES. OR WATER EVAPORATION THAT MAY IMPAIR REQUIRED STRENGTH OR SERVICEABILITY OF THE MEMBER OR STRUCTURE. REFER TO ACI 305.
- EXPOSED ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE PAINTED IN ACCORDANCE WITH THE LATEST VERSION OF AISC 360 FOR CORROSION PROTECTION. STEEL PREPARATION, PRIMING AND PAINTING SHALL CONFORM TO THE STEEL STRUCTURES PAINTING COUNCIL (SSPC) SPECIFICATIONS.
- ALL BLOCKOUTS, SLEEVES, OPENINGS, CONDUIT AND OTHER EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER BEFORE POURING. CONDUITS EMBEDDED IN SLABS SHALL NOT BE LARGER IN OUTSIDE DIMENSION THAN ONE THIRD OF THE THICKNESS OF THE SLAB AND SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS ON CENTER. VERIFY ALL BLOCKOUTS WITH MECHANICAL, ELECTRICAL AND PLUMBING REQUIREMENTS.
- ELECTRICAL GROUNDING ELEMENTS SHALL BE IN PLACE PRIOR TO POURING CONCRETE.

GROUTING

- ALL BASE PLATES AND GROUT-POCKETS FOR SHEAR KEYS, SHALL BE GROUTED IN ACCORDANCE WITH AISC 303-05.
- GROUTING SHALL BE DONE PROMPTLY AFTER THE STRUCTURAL STEEL FRAME ABOVE IT HAS BEEN PLUMBED. NOTE: GROUTING MUST BE COMPLETE AND CURED, PRIOR TO THE INSTALLATION OF THE CONVEYOR BELT AND/OR ANY HEAVY COMPONENTS THAT MAY REQUIRE THE USE OF "COME-ALONGS" OR SIMILAR WINCHES FOR THEIR PLACEMENT.
- GROUT SHALL BE PRE-APPROVED BY THE ENGINEER AND SHALL BE HIGH STRENGTH, NON-SHRINK, NON-METALLIC, CEMENTITIOUS OR EPOXY-TYPE - UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- GROUT SHALL BE INSTALLED - AND ALL CONTACT SURFACES SHALL BE CLEANED AND PREPARED BEFOREHAND - IN ACCORDANCE WITH THE GROUT-SUPPLIER'S SPECIFICATIONS.
- HIGH STRENGTH NON-SHRINK GROUT SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 8,000 PSI AT 28 DAYS (2,000 PSI AT 1 DAY; 6,000 PSI AT 7 DAYS) AND BE IN ACCORDANCE WITH ASTM C1107. GROUT MINIMUM COMPRESSIVE STRENGTH SHALL ATTAIN THE FOLLOWING THROUGHOUT CONSTRUCTION: 3,000 PSI AT ANCHOR BOLT TIGHTENING.

CONSTRUCTION DEWATERING NOT AUTHORIZED. IF REQUIRED:

BATCH DISCHARGE AUTHORIZATION PERMIT IS REQUIRED FOR TEMPORARY DISCHARGES OF GROUNDWATER OR CONSTRUCTION RELATED STORMWATER [CHANNELIZED, COLLECTED AND/OR PUMP] TO THE CITY'S PUBLIC SANITARY OR STORM SEWER SYSTEM.
IF DEWATERING TO A CITY SANITARY OF STORM SEWER SYSTEM IS NECESSARY, PREAUTHORIZATION MUST BE OBTAINED FROM THE BES PRETREATMENT OR STORMWATER PROGRAMS. CALL 503-823-7026 OR CONTACT BATCHDISCHARGE@PORTLANDOREGON.GOV FOR BATCH DISCHARGE INFORMATION AND REQUESTS.

STRUCTURAL STEEL

- ALL STEEL DETAILING, FABRICATION, ERECTION AND IDENTIFICATION SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATIONS. ALL WELDING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY (AWS) SPECIFICATIONS D1.1.
- STRUCTURAL STEEL PLATE AND SHAPES SHALL CONFORM TO THE FOLLOWING, UNLESS NOTED OTHERWISE:

W SHAPES	ASTM A992	Fy = 50 KSI
WT SHAPES	ASTM A992	Fy = 50 KSI
CHANNELS	ASTM A36	Fy = 36 KSI
ANGLES	ASTM A36	Fy = 36 KSI
PLATES	ASTM A36	Fy = 36 KSI
HSS RECT.	ASTM A500, GR B	Fy = 46 KSI
HSS ROUND	ASTM A500, GR B	Fy = 42 KSI
PIPE	ASTM A53, GR B	Fy = 35 KSI
HP	ASTM A572, GR B	Fy = 50 KSI
- ALL WELDED CONNECTIONS, UNLESS NOTED OTHERWISE, SHALL BE FULLY WELDED CONNECTIONS. FILLET WELD SIZE TO BE 1/16" LESS THAN THE THINNESS MATERIAL WITH A MINIMUM OF 3/16".
- FABRICATION WELDING INSPECTION SHALL BE IN ACCORDANCE WITH AWS D1.1. AWS CERTIFIED WELDING INSPECTORS SHALL PERFORM ALL INSPECTIONS. ALL WELDS SHALL BE VISUALLY INSPECTED (VT). COMPLETE JOINT PENETRATION GROOVE WELDS SHALL BE 100% TESTED USING EITHER RADIOGRAPHIC (RT) OR ULTRASONIC (UT). ACCEPTANCE CRITERIA FOR ALL TESTING AND INSPECTION SHALL BE IN ACCORDANCE WITH AWS.
- WELD ELECTRODES SHALL CONFORM TO E70XX CLASSIFICATION ACCORDING TO AWS D1.1.
- STRUCTURAL BOLTED CONNECTIONS SHALL CONFORM TO AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325-N BOLTS, UNLESS OTHERWISE NOTED. BOLTS SHALL BE SNUG-TIGHT.
- BOLTS IN SNUG-TIGHTENED ASSEMBLIES, SECONDARY / MINOR STRUCTURAL CONNECTIONS [SUCH AS ACCESS COMPONENTS AND TABLES] AND BOLTS IN SLOTTED HOLES, IT IS PERMITTED TO USE STANDARD WASHERS OR WASHERS LARGE ENOUGH TO COVER THE SLOT. NOTE, IN DOUBLE SLOTTED ASSEMBLIES, IF THE BOLT-HEADS ARE LARGE ENOUGH TO COVER THE SLOT ADDITIONAL WASHERS ARE NOT REQUIRED.
- TO REPLACE BOLTED CONNECTION FOR WELDED CONNECTION CONSULT SMG FOR GUIDANCE.
- STANDARD STRUCTURAL WASHERS SHALL CONFORM TO ASTM F436.
- ANCHOR RODS SHALL CONFORM TO ASTM F1554 GR 36 UNO ON THE CONCRETE DRAWINGS.
- POST INSTALLED ANCHORS SHALL BE AS SHOWN ON THE DESIGN DRAWINGS BACKED BY REQUIRED ICC TEST REPORTS.
- FIELD CUTTING OR BURNING WILL NOT BE ALLOWED UNLESS VERIFIED BY THE ENGINEER PRIOR TO MODIFICATION.
- THE CONTRACTOR SHALL TAKE REASONABLE CARE IN THE HANDLING AND STORAGE DURING CONSTRUCTION OPERATIONS TO AVOID ACCUMULATION OF UNNECESSARY MOISTURE, DIRT, OR FOREIGN MATTER.
- TEMPORARY BRACING SHALL BE INSTALLED, AS REQUIRED, DURING STEEL ERECTION TO ENSURE THE SAFETY OF ALL WORKERS AS WELL AS TO PROVIDE PROPER ALIGNMENT AND STABILITY OF THE FINAL STRUCTURE. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.
- CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.
- STEEL PREPARATION, PRIMING AND PAINTING SHALL CONFORM TO THE STEEL STRUCTURES PAINTING COUNCIL (SSPC) SPECIFICATIONS.
- ALL NEW STRUCTURAL STEEL SHALL BE PREPARED AND COATED IN ACCORDANCE WITH THE SSPC AND OWNER'S FINAL APPROVAL OF COLORS AS SPECIFIED. THIRD PARTY PAINT THICKNESS TESTING, MAY BE REQUIRED TO BE DONE PER DISCRETION OF OWNER'S PROJECT REPRESENTATIVE.
- GENERAL: ALL NEW STRUCTURAL STEEL SHALL RECEIVE SSPC-SP6 COMMERCIAL SANDBLAST ON ALL EXPOSED SURFACES. MINIMUM ACCEPTABLE SURFACE PREPARATION TO BE: POWER TOOL CLEANING (SSPC-SP3) WHICH INCLUDES SOLVENT CLEANING (SSPC-SP1).
- ALL EXPOSED STEEL SURFACES: DO NOT PAINT AREAS TO BE FIELD WELDED.
PRIMER: APPLY (1) COAT OF "WASSER MC-ZINC 100" - 4.0MILS [MIN] DRY FILM THICKNESS.
TOP COAT: APPLY (1) COAT OF "WASSER MC-FERROX A" - 4.0MILS [MIN] DRY FILM THICKNESS
COLORS:
 - ALL STRUCTURAL AND FABRICATED PLATE COMPONENTS: COLOR TO MATCH EXISTING STEELWORK AND/OR PER OWNER'S PRE-APPROVAL
 - ALL GUARDRAILS, LADDERS, STAIR NOSING AND LIFT LUGS: COLOR TO BE OSHA SAFETY YELLOW
 - GRATING TO BE SERRATED AND HOT-DIPPED GALVANIZED. SEE FRAMING PLANS FOR GRATING SIZE
- WELD-DISTURBED AREAS: AFTER FIELD WELDING AND FOR FIELD TOUCH-UP OF PAINTED SURFACES: PREP AFFECTED AREAS WITH SSPC-SP2-3, HAND CLEAN OR POWER TOOL, AND APPLY THE APPLICABLE COATING SYSTEM AS OUTLINED ABOVE.
- CONTRACTOR TO FURNISH SHOP DETAILS OF ALL EQUIPMENT BUILT UNDER THIS CONTRACT. ONE REPRODUCIBLE DRAWING AND 2 PRINTS OF ALL SHOP DETAILS AND GENERAL ARRANGEMENT DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION.

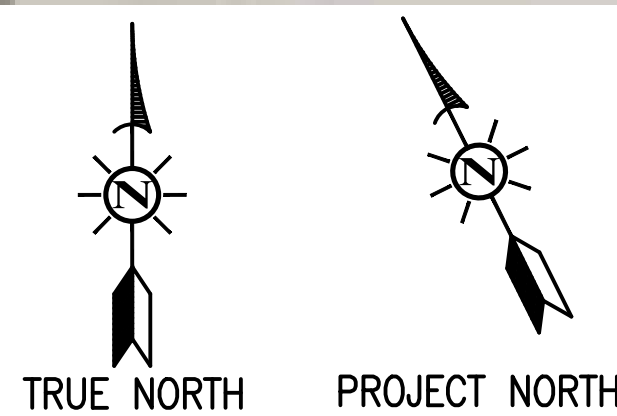
STANDARD ABBREVIATIONS:

@	AT	MISC	MISCELLANEOUS
A.B.	ANCHOR BOLT	MRF	MANUFACTURER
APPROX	APPROXIMATE	OC	ON CENTER
BLDG	BUILDING	OPP	OPPOSITE
CC	CENTER TO CENTER	R or RAD	RADIUS
CL	CENTER LINE	REF	REFERENCE
CLR	CLEAR	SIM	SIMILAR
CONC	CONCRETE	SP	SPACING
DIA	DIAMETER	SPEC	SPECIFICATIONS
DWG	DRAWING	SS	STAINLESS STEEL
EL. xxx	ELEVATION	SYM	SYMMETRICAL
EW	EACH WAY	T&B	TOP & BOTTOM
FT	FEET	T.O. xxx	TOP OF
GALV	GALVANIZED	TYP	TYPICAL
IE	INVERT ELEVATION	UNO	UNLESS NOTED OTHERWISE
IN	INCHES	W/	WITH
MAX	MAXIMUM	WP	WORK POINT
MIN	MINIMUM		

1" = 16' 0"



- PROPERTY ADDRESS:
12005 N. BURGARD RD.
PORTLAND, OR. 97203
- TAX ACCOUNT NO: R325522
- ZONED HEAVY INDUSTRIAL
- STREET TREE ACTIVITY NOT
APPROVED UNDER THIS PERMIT



1 OVERALL SITE PLAN
105 1" = 125'-0"

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0	ISSUED FOR PERMIT	TR	8/13/21	KD
SYM.	REVISIONS	BY	DATE	CHK'D



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Smith Monroe Gray
ENGINEERS, INC.

8625 SW Cascade Ave.
Suite 600
Beaverton, Oregon 97008

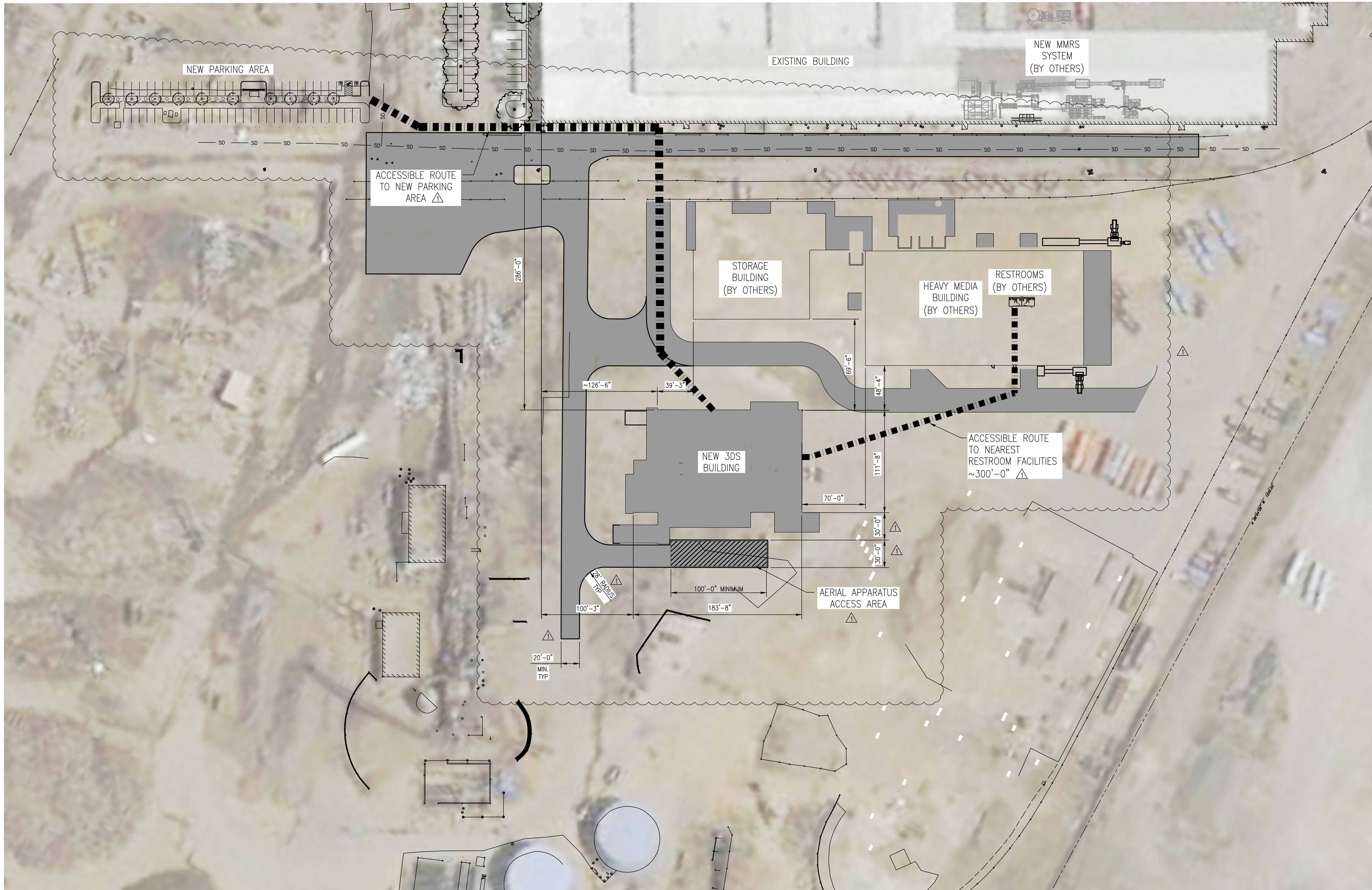
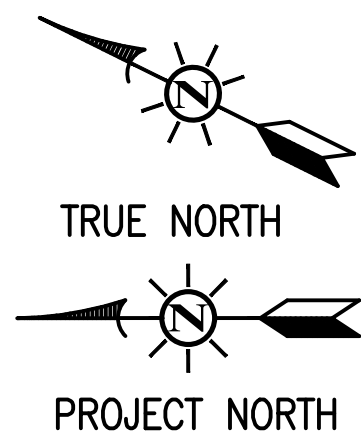
Phone: 503.643.8595
Fax: 503.643.8610

www.smgengr.com

SCHNITZER STEEL INDUSTRIES
PORTLAND FACILITY
METAL RECOVERY SYSTEM UPGRADE (3DS)

OVERALL SITE PLAN

SORLE AS NOTED	DWG. NO. 20-333B-105	REV. 1
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NOTES:

1. HEAVY MEDIA BUILDING LOCATION AND CONFIGURATION BASED ON MACKENZIE DRAWING 573-PSITE, DATED JANUARY 29, 2021
2. TOPOGRAPHY INFORMATION BASED ON MACKENZIE DRAWING 573-XTOPO DATED JANUARY 29, 2021
3. FLOODPLAIN INFORMATION BASED ON MACKENZIE DRAWING 573-C123, DATED JANUARY 29, 2021
4. L3DS PROJECT WILL REQUIRE REMOVAL OF MATERIAL FROM PROJECT. SEE DRAWING 20-333B-109.

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SYM.	REVISIONS	BY	DATE	CHK'D
1	ISSUED PER COP PERMIT COMMENTS	A.P.	12/17/2021	KD
0	ISSUED FOR PERMIT	A.P.	8/13/21	KD

1 SITE PLAN
1" = 50'-0"



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DRAWN BY: A.J. PLUMB
DATE: 2/5/2021
CHK'D BY:

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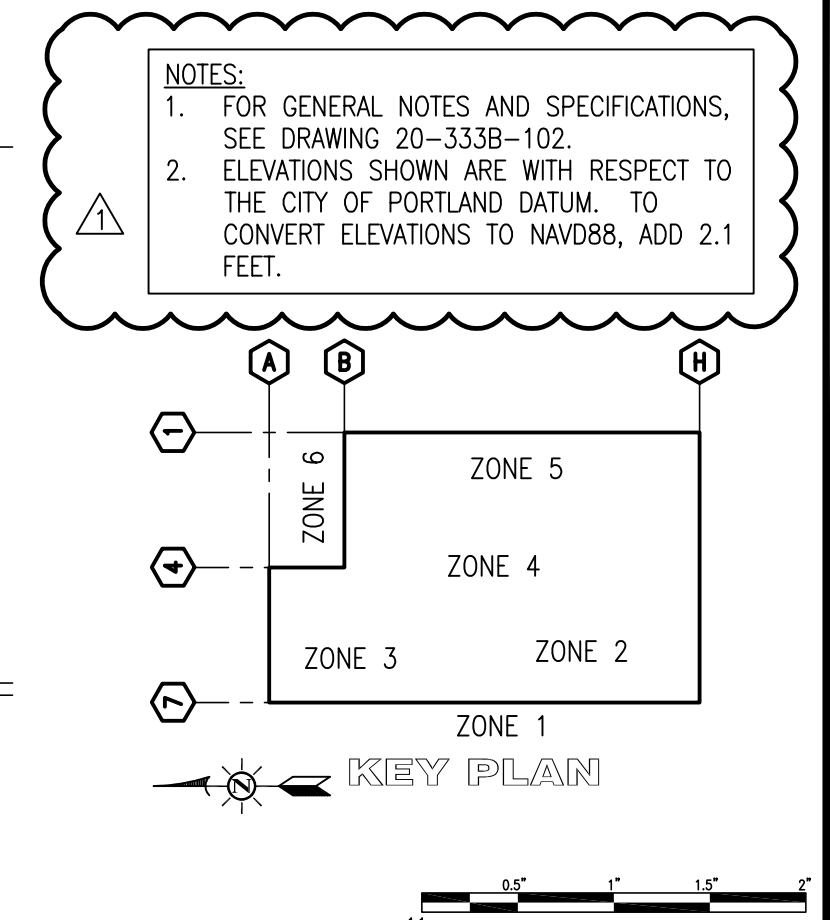
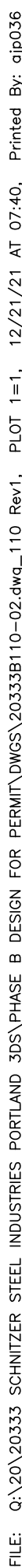
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SITE PLAN

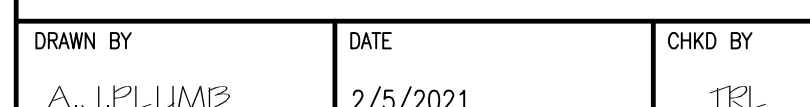
SORLE
AS NOTED

DWG. NO.
20-333B-106

REV.
1

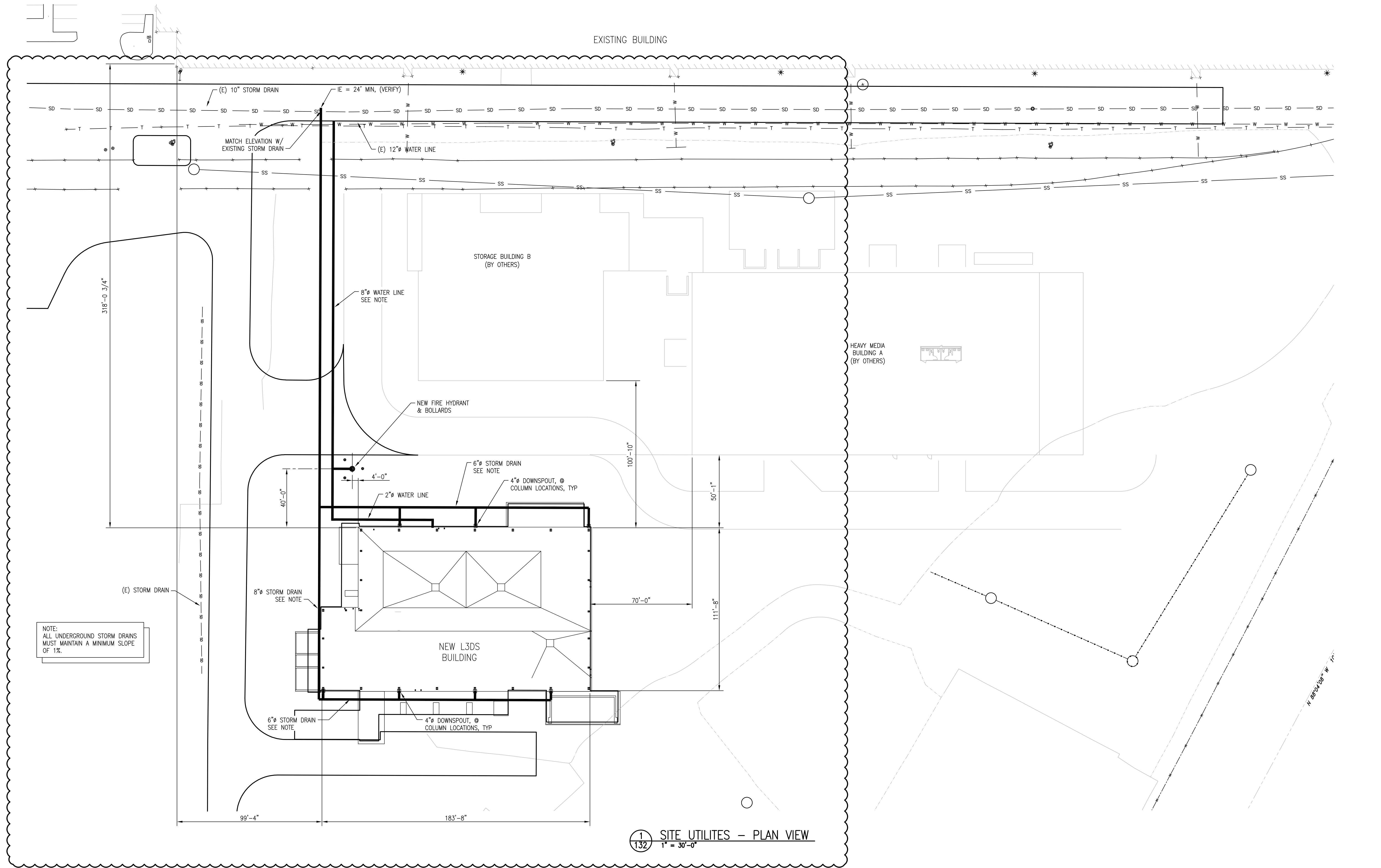
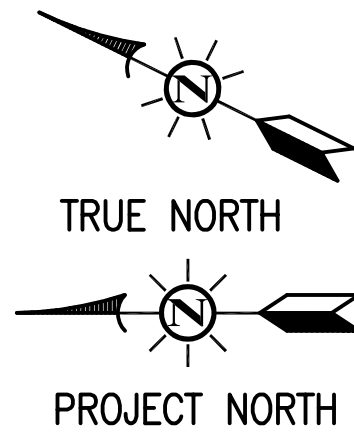


1	ISSUED PER COP PERMIT COMMENTS	AJP	12/17/2021	KD
0	ISSUED FOR PERMIT	AJP	08/13/21	KD
SYM.	REVISIONS	BY	DATE	CHK'D



SCALE	DWG. NO.	RI
AS NOTED	20-333B-110	

R



NOTE:
ALL UNDERGROUND STORM DRAINS
MUST MAINTAIN A MINIMUM SLOPE
OF 1%.

1 SITE UTILITIES - PLAN VIEW
1\"/>

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SYN.	REVISIONS	BY	DATE	CHK'D
1	ISSUED PER COP PERMIT COMMENTS	AJP	12/17/2021	KD
0	ISSUED FOR PERMIT	CAP	8/13/2021	KD



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Fax: 503.643.8610
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DRAWN BY CAP	DATE 6/28/21	CHKD BY	DATE
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SITE UTILITIES - PLAN VIEW

SORLE AS NOTED	DWG. NO. 20-333B-132	REV. 1
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