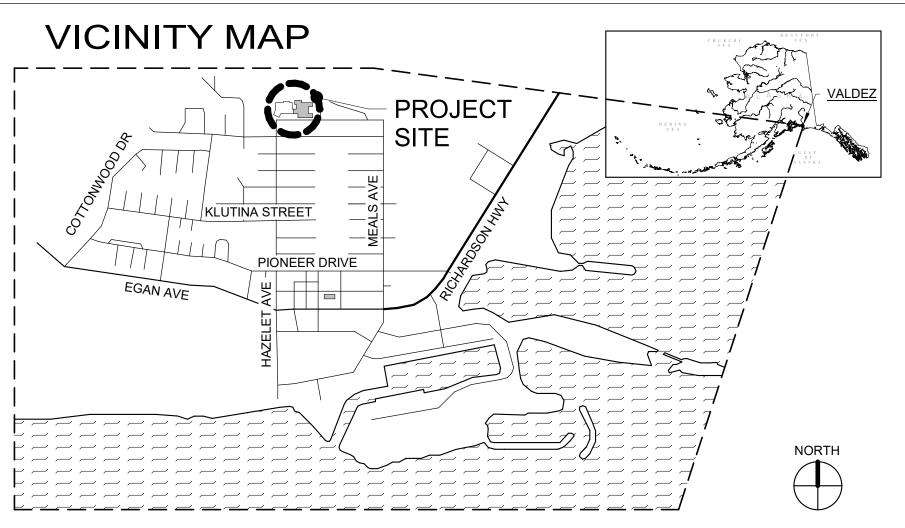


VALDEZ HIGH SCHOOL POOL COLUMN REPAIR

Valdez, Alaska

REVISIONS No Description Date

BID DOCUMENTS SEPTEMBER 12, 2022



OWNER

CITY OF VALDEZ 212 Chenega Avenue P.O. Box 307 Valdez, Alaska 99686 (907) 907-835-5478 CONTACT: Scott Benda, Project Manager SBenda@ValdezAK.Gov

ARCHITECT

BDS Architects 3330 C Street Suite 200 Anchorage, Alaska 99503 (907) 562-6076 CONTACT: Bryce Hamels, Project Architect

PROJECT DESCRIPTION

REPAIR OF CORRODED STRUCTURAL COLUMN AT POOL AREA AND REPLACEMENT OF EXISTING DECK DRAIN SYSTEM TO MITIGATE FUTURE COLUMN CORROSION

GENERAL NOTES

- 1. THESE DRAWINGS WERE PREPARED FROM AS-BUILT DOCUMENTS PROVIDED BY THE CITY OF VALDEZ. ACTUAL FIELD CONDITIONS MAY DEVIATE FROM THESE DRAWINGS. CONTRACTOR TO NOTIFY THE ARCHITECT IN WRITING SHOULD EXISTING CONDITIONS DIFFER FROM THE
- 2. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS OF EXISTING CONSTRUCTION IMPACTED BY THE WORK.
- 3. CONTRACTOR TO PROTECT ALL EXISTING EQUIPMENT, FINISHES, AND OWNER PROPERTY AFFECTED BY THE WORK OR WORKER TRAFFIC.
- 4. CONTRACTOR TO PROVIDE EXTERIOR TOILET FACILITIES FOR WORKERS.
- 5. SEE BID PACKAGE FOR REQUIRED UNIT PRICING.

CODE INFORMATION

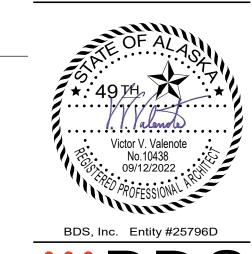
GOVERNING CODES ARE THE 2012 INTERNATIONAL BUILDING CODE (IBC), INTERNATIONAL MECHANICAL CODE (IMC), INTERNATIONAL FIRE CODE (IFC), UPC 2018, AND NEC 2017, & NFPA 13 AS ADOPTED BY THE STATE OF ALASKA.

OCCUPANCY: E, NO CHANGE IN OCCUPANCY. TYPE OF CONSTRUCTION: IIA EGRESS COMPONENTS: NO CHANGE IN EGRESS COMPONENTS SPRINKLERED: YES

DRAWING INDEX

G0.01 **COVER SHEET** STRUCTURAL PLANS AND GENERAL S1.01 S1.02 STRUCTURAL DETAILS S1.03 STRUCTURAL DETAILS M0.01 MECHANICAL LEGEND, SCHEDULES, AND ABBREVIATIONS

MECHANICAL PLANS AND DETAILS





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COV VHS POOL **COLUMN REPAIR** 319 ROBE RIVER DR. BDS Project No.:

Client Project No.: BID DOCUMENTS

09/12/2022

COVER SHEET

GENERAL NOTES:

THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS AMONG THE DRAWINGS BEFORE STARTING ANY WORK OR FABRICATION. IN CASE OF DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS, REFERENCE STANDARDS, SITE CONDITIONS OR GOVERNING CODE, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN. CONTRACTOR SHALL NOTIFY THE ENGINEER OF DISCREPANCIES AND OBTAIN DIRECTION PRIOR TO PROCEEDING. NOTES ON INDIVIDUAL STRUCTURAL DRAWINGS SHALL TAKE PRIORITY OVER GENERAL STRUCTURAL NOTES. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE DRAWINGS. TYPICAL DETAILS MAY NOT NECESSARILY BE INDICATED AS TYP ON THE PLANS BUT SHALL APPLY AS SHOWN OR DESCRIBED IN THE DETAILS.

ALL CONSTRUCTION SHALL COMPLY WITH THE 2012 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED AND ADOPTED BY STATE OF ALASKA.

SAFETY - THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL FEDERAL, STATE AND LOCAL SAFETY STANDARDS. THE CONTRACTOR IS IN CHARGE OF ALL SAFETY MATTERS ON AND AROUND THE JOB SITE.

EXISTING CONDITIONS

CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND CONDITIONS PRIOR TO COMMENCING WORK. DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS ARE INTENDED AS GUIDELINES ONLY AND MUST BE VERIFIED. EXISTING CONDITIONS SHOWN ON DRAWINGS ARE BASED ON EITHER SITE OBSERVATIONS, ORIGINAL DRAWINGS, OR WERE ASSUMED BASED ON EXPECTED CONDITIONS. IF EXISTING CONDITIONS DO NOT CLOSELY MATCH CONDITIONS SHOWN ON DRAWINGS, OR IF EXISTING MATERIALS ARE OF QUESTIONABLE OR SUBSTANDARD QUALITY, NOTIFY ENGINEER PRIOR TO COMMENCING WORK.

STRUCTURAL STEEL

MATERIALS:

STRUCTURAL STEEL TUBES (HSS): ASTM A500, GRADE C ALL OTHER SHAPES & PLATE: ASTM A36

ALL DETAILING, FABRICATION AND ERECTIONS SHALL CONFORM TO AISC SPECIFICATIONS AND CODES, LATEST EDITION. FABRICATOR MUST PARTICIPATE IN THE AISC QUALITY CERTIFICATION PROGRAM, BE CERTIFIED BY THE MUNICIPALITY OF ANCHORAGE, OR SPECIAL INSPECTIONS AT THE CONTRACTOR'S EXPENSE, MUST BE PROVIDED IN THE FABRICATION SHOP.

ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS AND SHALL CONFORM TO THE AWS D1.1 AND D1.8, LATEST EDITIONS. ALL WELDING ELECTRODES SHALL BE PROPERLY CONDITIONED 70 KSI MINIMUM TENSILE STRENGTH, WITH DIFFUSED HYDROGEN LEVELS OF 16ml/g (H16) OR LESS IN ACCORDANCE WITH AWS A4.3.

WELDS NOT SPECIFIED SHALL BE SHOP-PERFORMED CONTINUOUS OR ALL-AROUND 3/16" FILLET WELDS.

WELD FILLER METAL FOR COMPLETE-JOINT-PENETRATION GROOVE
WELDS AND WELDS PART OF THE LATERAL FORCE RESISTING SYSTEM
SHALL MEET THE FOLLOWING ADDITIONAL REQUIREMENTS:
MINIMUM YIELD STRENGTH: 58 KSI

MINIMUM YIELD STRENGTH: 58 KSI CVN TOUGHNESS: 20 FT LBS AT 0°F ELONGATION: 22% MINIMUM

WELD FILLER METAL FOR DEMAND CRITIAL WELDS SHALL MEET THE ADDITIONAL REQUIREMENT:

CVN TOUGHNESS: 40 FT LBS AT 70°F

POST-INSTALLED ANCHORS

INSTALLATION SHALL CONFORM TO MANUFACTURER'S INSTRUCTIONS AND REQUIREMENTS OF ICC-ES REPORT. ALL POST-INSTALLED ANCHORS SHALL HAVE A CURRENT ICC-ES REPORT AND BE AUTHORIZED FOR USE IN SEISMIC DESIGN CATEGORY D. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR ALL POST-INSTALLED ANCHORS, UON. INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED SHALL BE PERFORMED BY ACI/CRSI CERTIFIED PERSONNEL ONLY AND REQUIRES CONTINUOUS SPECIAL INSPECTION.

EXISTING BASE SHALL BE SCANNED PRIOR TO DRILLING HOLES. EXISTING REBAR LOCATIONS SHALL BE MARKED, AND NEW ANCHOR LOCATIONS REVISED TO AVOID EXISTING REINFORCING. NO REINFORCING BARS SHALL BE CUT TO INSTALL ANCHORS. ALL DEFECTIVE ANCHOR HOLES SHALL BE GROUTED AND A NEW HOLE DRILLED A MINIMUM OF 3 BOLT DIAMETERS AWAY.

ADHESIVE ANCHORS FOR THREADED ROD AND REBAR SHALL BE ONE OF THE FOLLOWING (OR AN APPROVED EQUIVALENT):

CONCRETE:

-DEWALT "PURE110+" (ESR-3298) -HILTI "HIT-HY 200 SAFE SET" (ESR-3187)

-EPCON "A7+" (ESR-3903) -SIMPSON "SET-XP" (ESR-2508)

STRUCTURAL CONCRETE

ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 301, STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE, AS MODIFIED BY IBC SECTION 1905 AND LOCAL ADOPTED AMENDMENTS.

ALL CAST-IN-PLACE CONCRETE:

- 1. EXPOSURE F0, S3, W1, C2 (ACI 318-14, 19.3.1.1)
- 2. MINIMUM 28-DAY COMPRESSIVE STRENGTH = 5,000 PSI
- 3. MAXIMUM AGGREGATE SIZE = 3/4"4. MAXIMUM WATER-CEMENT RATIO = 0.40
- 5. MAXIMUM CHLORIDE ION CONTENT = .15%
- 6. TARGET AIR CONTENT = 3% (+/-1%)

CONCRETE SHALL BE PROPORTIONED TO ACHIEVE A WORKABLE MIX THAT CAN BE PLACED WITHOUT SEGREGATION OR EXCESS FREE SURFACE WATER.

APPLICABLE ASTM STANDARDS:
PORTLAND CEMENT = ASTM C150
AGGREGATE = ASTM C33, NORMAL WEIGHT
WATER = ASTM C94, SECTION 5.4 OR ASTM C1602
WATER REDUCING ADMIXTURE = ASTM C494, TYPE A

THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT FOR CAST-IN-PLACE CONCRETE:

- A. CONCRETE CAST AGAINST EARTH 3-INCHES
 B. CONCRETE EXPOSED TO EARTH OR WEATHER
- -#6 AND LARGER 2-INCHES

Existing

-#5 AND SMALLER 1½-INCHES
C. CONCRETE NOT EXPOSED TO EARTH OR WEATHER 3/4-INCH

ALL CONCRETE REINFORCING SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED AND SPACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE LATEST EDITIONS OF ACI 315, ACI 318, CRSI MSP-1 AND ACI SP-66. DOWELS SHALL MATCH SIZE AND NUMBER OF MAIN REINFORCING.

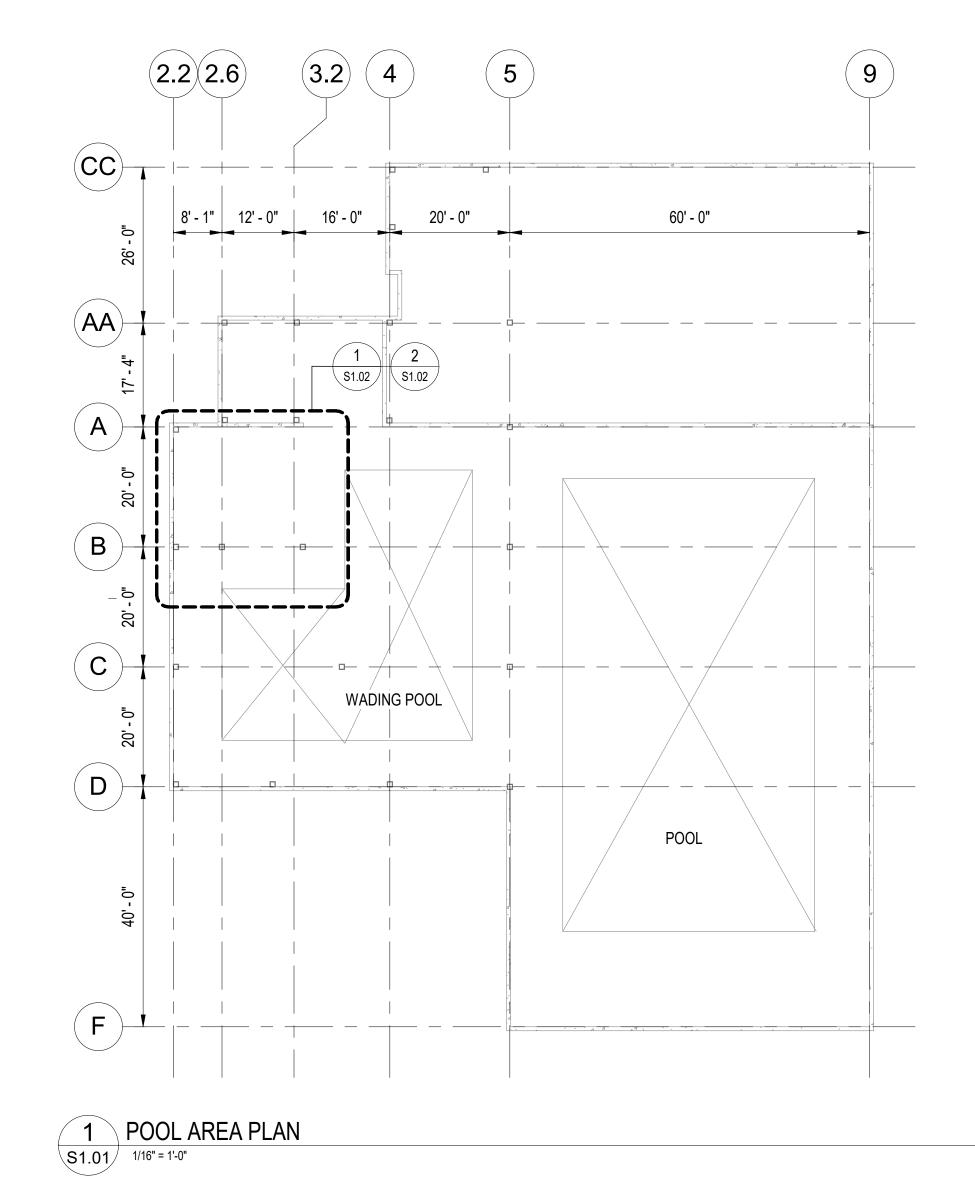
TYPICAL REINFORCING BARS SHALL BE ASTM A615, GRADE 60. LAP SPLICES SHALL BE CLASS B LAPS PER ACI (63 X BAR DIAMETER). LAP SPLICES MAY ALSO ACCOMPLISHED USING MECHANICAL DEVICES THAT DEVELOP 125% OF THE STRENGTH OF THE REBAR.

CHECKED SHOP DRAWINGS SHOWING REINFORCING DETAILS, INCLUDING STEEL SIZES, SPACING AND PLACEMENT SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION. SUBMIT MIX DESIGNS FOR REVIEW PRIOR TO LISE

EMBEDDED ITEMS (CONDUIT AND SLEEVES) SHALL NOT BE EMBEDDED IN OR PASS THROUGH CONCRETE WITHOUT APPROVAL. **ALUMINUM ITEMS SHALL NOT BE EMBEDDED IN CONCRETE.** SUBMIT CONDUIT LAYOUT AND EMBEDDED ITEM PLANS FOR REVIEW PRIOR TO PLACING CONCRETE.

International Building Code

NON-SHRINK GROUT SHALL BE NON-METALLIC, CONFORMING TO ASTM C1107.



SIM TYP EΑ Each INT OH Typical BLKG Blocking Interior Overhead Similar EQ OPNG SQ UON Unless Otherwise Noted **Anchor Bolts** Beam Equal. Earthquake Lag Screw Square Opening BOT BLDG Building **Bottom** ΕW Each Way LOC Location PL Plate STL Steel **VERT** Vertical T&B **ARCH** EXP Between LONG PLS W/ With Architect Longitudinal Places Top and Bottom Expansion FDN MAX PSF T&G W/O Without Anchor Rod CL Center-Line Foundation Maximum Pounds-per-square-foot Tongue and Groove CLR MEZZ PSI T.O. Clear W Wide-Flange, Wide Alternate Finished Floor Mezzanine Pounds-per-square-inch Top of **GALV** REQ'D T.O.B. AHJ COL Column MIN W/C Galvanized Minimum Required Top of Beam Water / Cement Ratio Authority Having Jurisdiction MFR GLB T.O.S. W.P. Above Finish Floor CONC Concrete Glue-Laminated Beam Manufacturer RO Rough Opening Top of Steel Work Point CONT Continuous, Continue **HORZ** T.O.W. Adhesive Shearwall Boundary Nailing Top of Wall Welded Wire Reinforcement Horizontal New ADD'L Additional HSS OC SCH **TRANS** Diaphragm Boundary Nailing Hollow Structural Steel On-Center Schedule Transverse

REVISIONS

No Description Date



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PLAN

NORTH

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COV VHS POOL COLUMN REPAIR

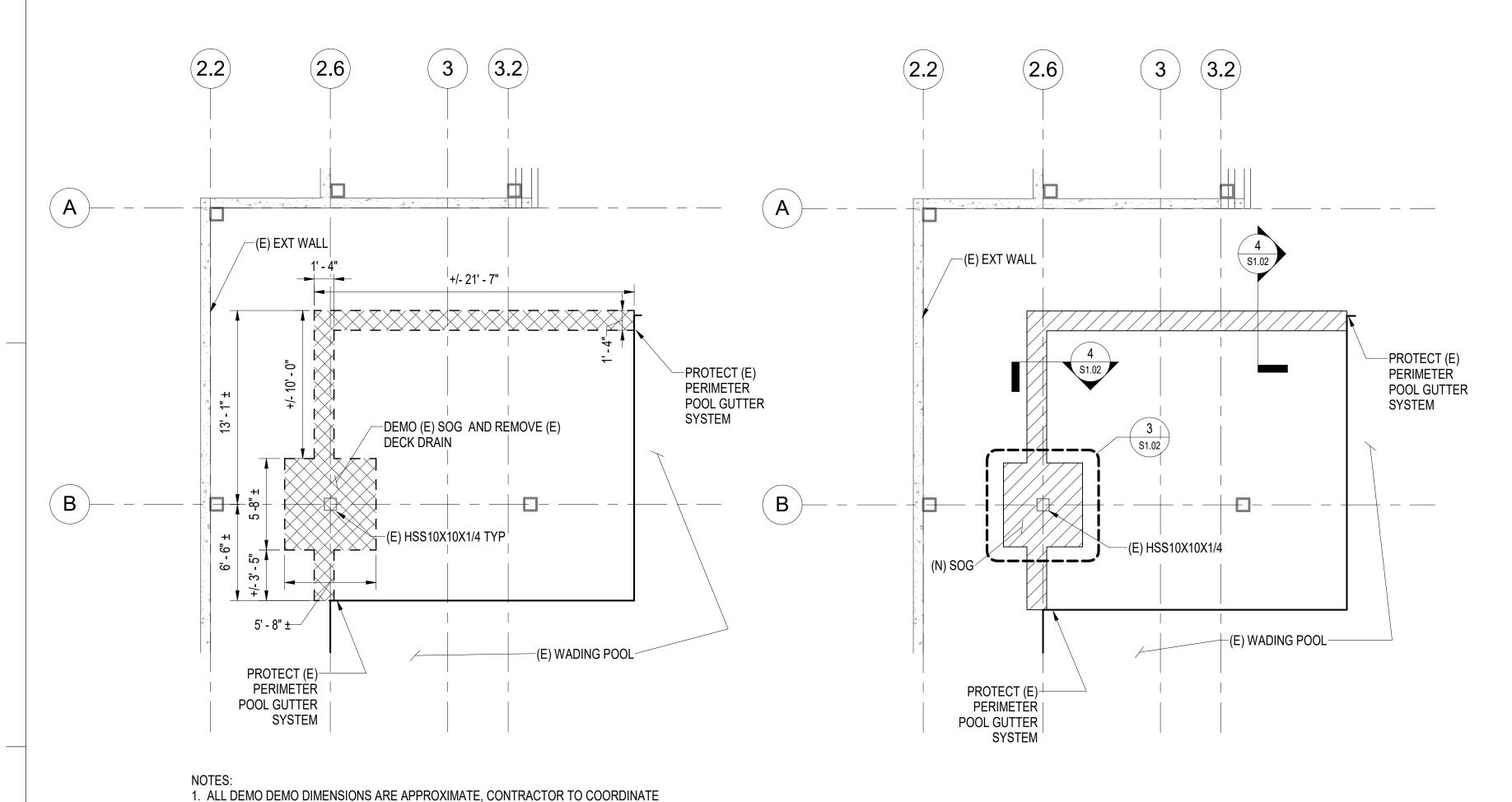
319 ROBE RIVER DR.

BDS Project No.: 402022.046
Client Project No.:

STRUCTRAL PLANS AND GEN

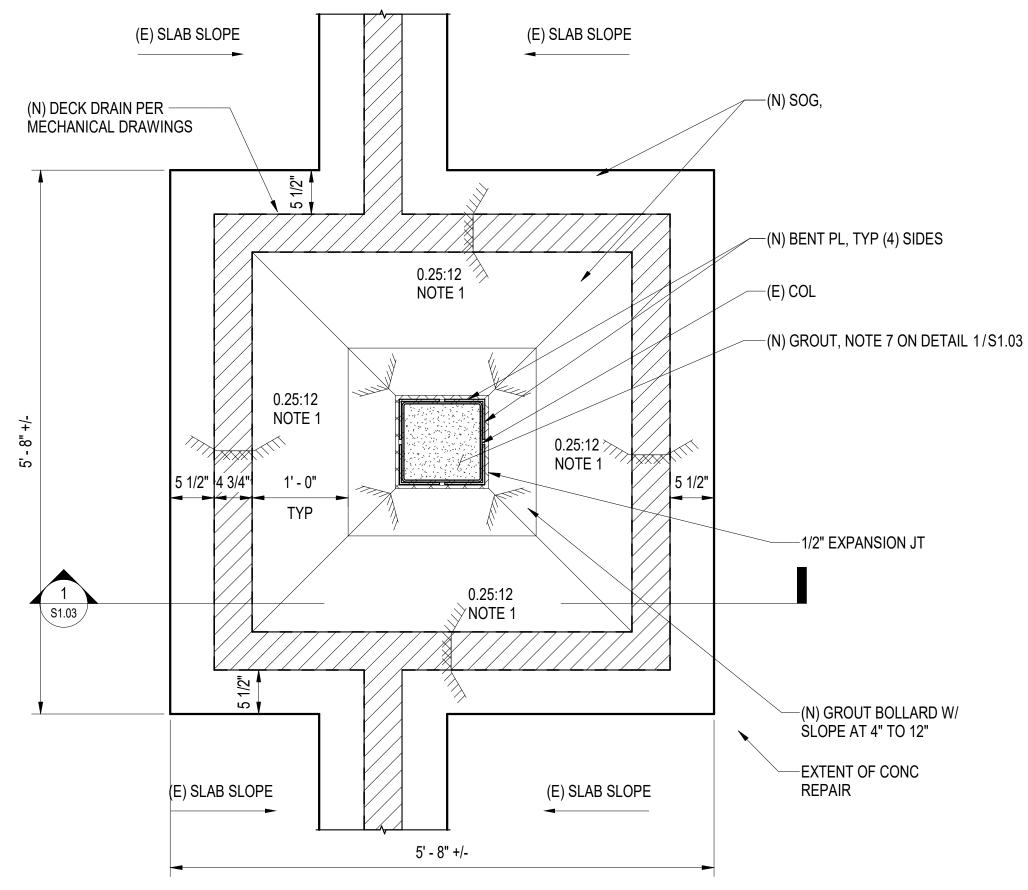
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NOTES
S1.01



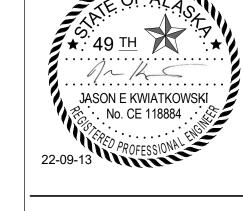
2 POOL AREA ENLARGED REPAIR PLAN





NOTES: 1. SLOPE TO DRAIN AT 1/4" TO 12" MIN

3 B/2.6 COLUMN REPAIR S1.02 1" = 1'-0"



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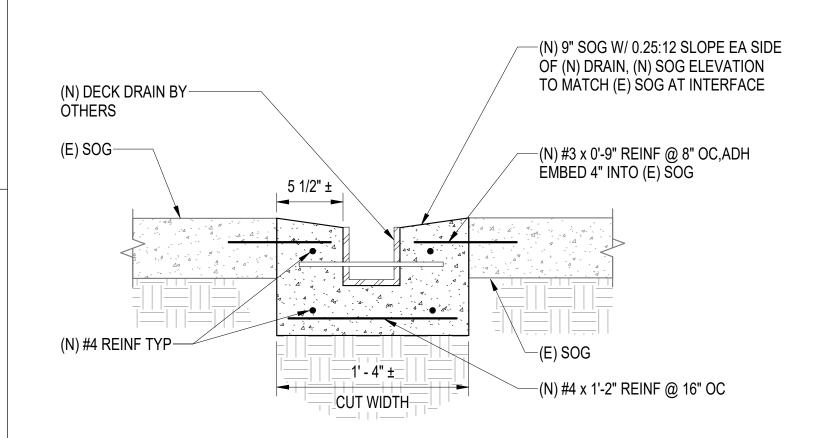
COV VHS POOL COLUMN REPAIR

319 ROBE RIVER DR.

BDS Project No.: Client Project No.:

BID DOCUMENTS 22-09-13

STRUCTURAL DETAILS S1.02

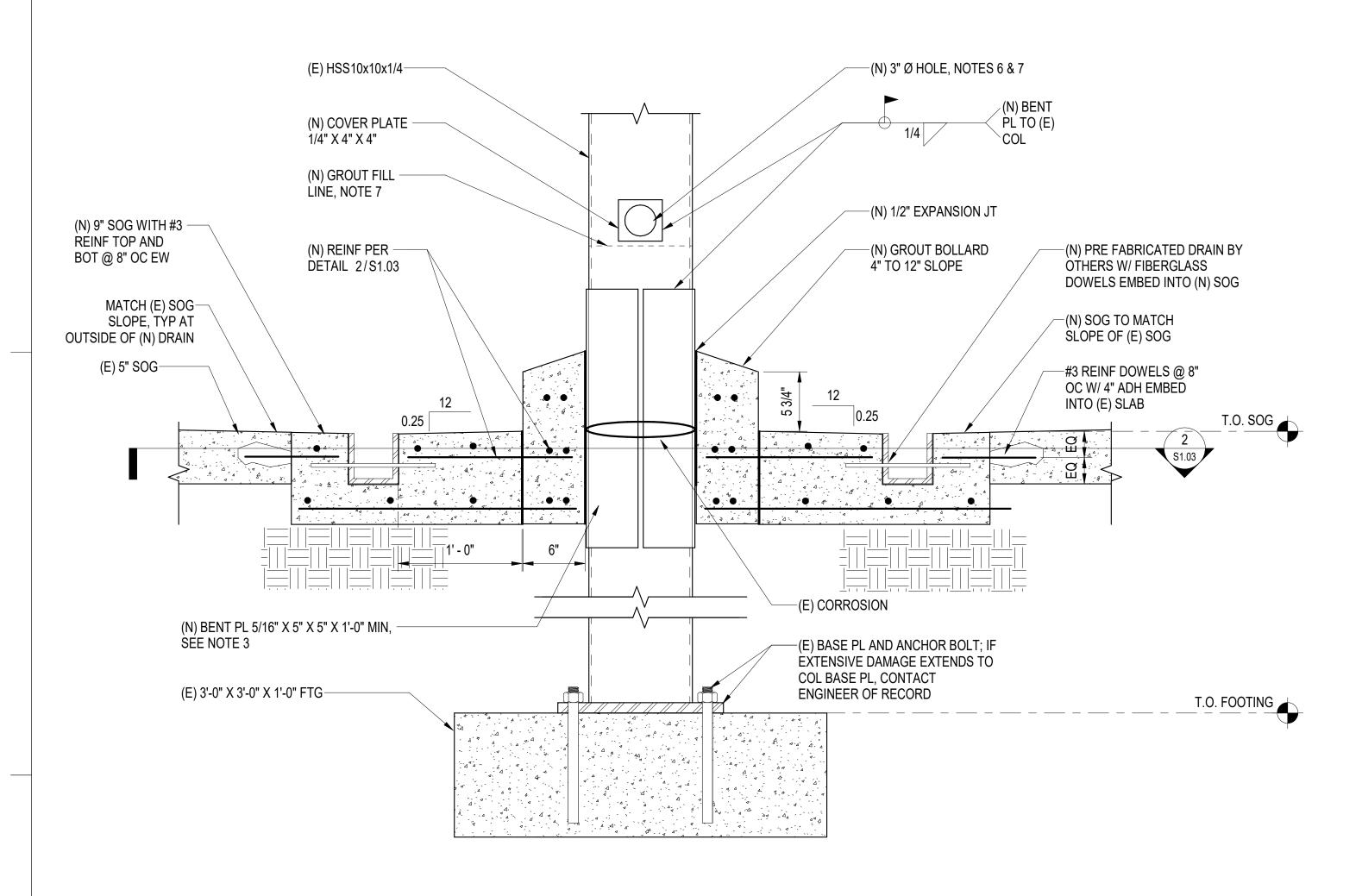


1. PROVISE 10 MIL VAPOR BARRIER OVER FULL CUT AREA

4 TYP SOG TRENCH REPAIR S1.02 11/2" = 1'-0"

1 POOL AREA ENLARGED DEMO PLAN

\$1.02 3/16" = 1'-0"



1. SAW CUT WORK AREA 32" +/- EA SIDE OF (E) COL. SEE MECHANICAL FOR ADDITIONAL CONCRETE SLAB DEMOLITION

2. REMOVE CONC; REMOVE ALL RUST FROM COL, POWER TOOL CLEAN, PAINT WITH (2) COATS RUST INHIBITING PRIMER/PAINT

3. DETERMINE (N) 5 1/4" X 5 1/4" X 5/16" BENT PLATE LENGTH. BENT PLATE SHOULD EXTEND MIN 6" ABV + BELOW FLOOR LEVEL AND EXTENT OF CORROSION

4. REINF COLUMN CORNERS w/ 1/4" BENT PLATE

5. ADD STRUCTURAL FILL AND COMPACT TO 95% DRY DENSITY 6. DRILL 3" DIA HOLE IN ONE SIDE OF (E) COL FACE 4" ABV EXTENT OF BENT PL

7. FILL (E) COL w/ NON SHRINK FLOWABLE GROUT UP TO BOT OF HOLE

8. PATCH OVER HOLE WITH STEEL PLATE

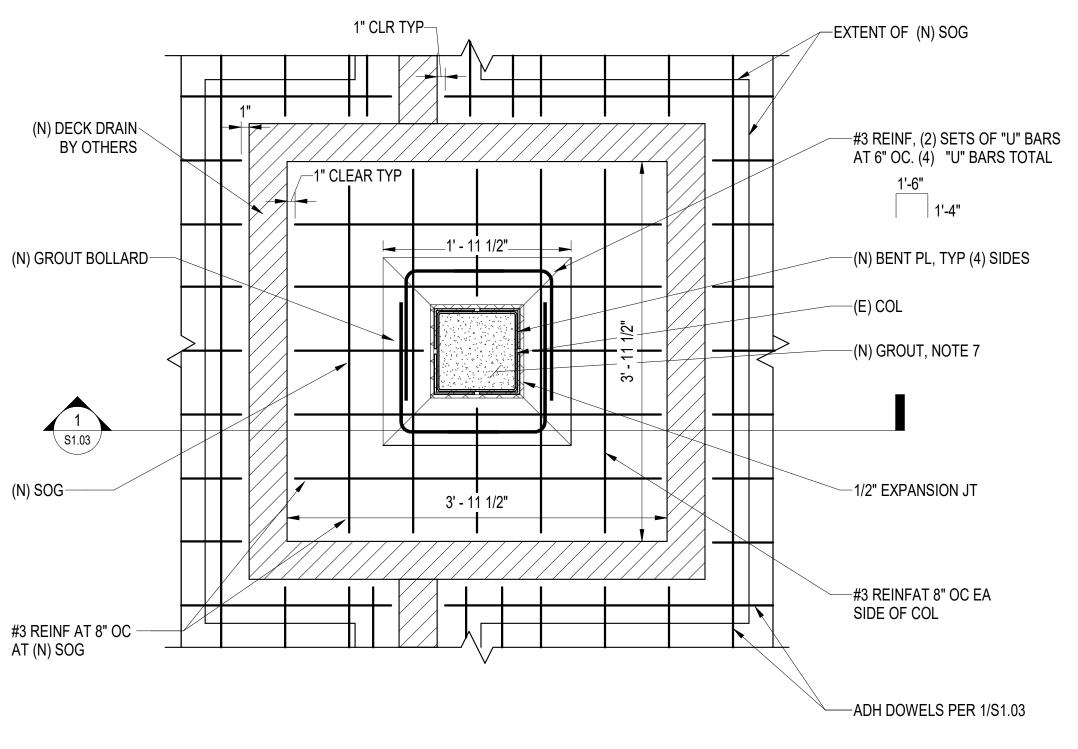
9. PAINT COLUMN w/ RUST INHIBITING PRIMER AND EPOXY PAINT TO MATCH

10. ADD COLUMN BLOCK OUT TO 6" ABV GROUND LEVEL

11. INSTALL (N) SOG

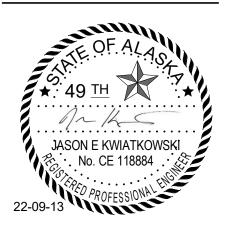
12. SEE MECHANICAL DRAWINGS FOR BELOW GRADE MECHANICAL WORK





2 B/2.6 COLUMN REPAIR HORIZONTAL SECTION S1.03 1" = 1'-0"

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COV VHS POOL COLUMN REPAIR

319 ROBE RIVER DR.

BDS Project No.: Client Project No.:

BID DOCUMENTS

402022.046

22-09-13

STRUCTURAL **DETAILS** S1.03

SPECIAL INSPECTION & TESTING SCHEDULE							
ITEM	C.I.	P.I.	REFERENCE STANDARD	REMARKS			
CONCRETE:			ACI 318-14, 301-16, 302.1R-15, ACI 311.1R-07; ACI 311.4R-05; IBC 1705.3, TABLE 1705.3				
REINFORCING MATERIALS AND PLACEMENT		X	ACI 318: Ch.20, 25.2, 25.3, 26.6.1-26.6.3				
		Χ	ACI 318 26.11.2(b)				
USE OF REQUIRED MIX DESIGN		Χ	ACI 318: Ch.19, 26.4.3, 26.4.4; ACI 304R-00; IBC 1904.1, 1904.2	2			
CONCRETE PLACEMENT	X		ACI 318 26.5; ACI 304.2R-17				
CONCRETE CURING		Х	ACI 318 26.5; ACI 308R-16	MAINTAIN PROPER TEMPERATURE AND CURING TECHNIQUE			
POST-INSTALLED ANCHORS; VERIFY CERTIFICATION PRIOR TO INSTALLING HORIZONTAL OR INCLINED ADHESIVE ANCHORS	(SEE NOTE)	Х	ACI 318 17.8, 26.7.1(i); ICC-ES REPORT	PER MANUFACTURER REQUIREMENTS, INCLUDES THE DRILLING & CLEANING OUT OF THE HOLES & THE INSTALLATION OF THE ANCHORS. INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY SHALL BE PERFORMED BY ACI/CRSI CERTIFIED PERSONNEL ONLY AND REQUIRE CONTINUOUS INSPECTION.			

	Q (NOT	C E 12)		(A E 13)	STEEL SPECIAL II	NSPECTION & TESTING SCHEDULE
ITEM	ì	,	TASK	,	REFERENCE STANDARD	REMARKS
STEEL:					AISC: 360-16, 341-16, 348-14, 303-16, 358-16; 2018 IBC: 1705.2	
VISUAL INSPECTION PRIOR TO WELDING:					AISC: 341-16 TABLE J6.1; 360-16 TABLE N5.4-1; AWS D1.1	
CONFIGURATION AND FINISH OF ACCESS HOLES	0	-	0	-		
FIT-UP OF FILLET WELDS	P/O	-	0	- - -		DIMENSIONS (ALIGNMENT, GAPS AT ROOT), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION) - NOTE 15
CHECK WELDING EQUIPMENT	0	-	-	-		
VISUAL INSPECTION DURING WELDING:					AISC: 341-16 TABLE J6.2, 360-16 TABLE N5.4-2; AWS D1.1	
USE OF QUALIFIED WELDERS	0	-	0	-		
CONTROL AND HANDLING OF WELDING CONSUMABLES	0	-	0	-		PACKAGING, EXPOSURE CONTROL
ENVIRONMENTAL CONDITIONS	0	-	0	-		WIND SPEED WITHIN LIMITS, PRECIPITATION AND TEMPERATURE
WELDING TECHNIQUES	0	-	0	-		INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETS QUALITY REQUIREMENTS
VISUAL INSPECTION AFTER WELDING:					AISC: 341-16 TABLE J6.3, 360-16 TABLE N5.4-3	
WELDS CLEANED	0	-	0	-		
SIZE, LENGTH AND LOCATION OF WELDS	Р	-	Р	-		
WELDS MEET VISUAL ACCEPTANCE CRITERIA	Р	D	Р	D		CRACK PROHIBITION, WELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES AND SIZE, UNDERCUT, POROSITY
ARC STRIKES	Р	-	Р	-		
REPAIR ACTIVITIES	Р	-	Р	D		
ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	Р	D	Р	D		

SPECIAL INSPECTIONS AND TESTING

THE OWNER SHALL ENGAGE A SPECIAL INSPECTOR PER CHAPTER 17 OF THE IBC. SPECIAL INSPECTION AND TESTING OF THE DESIGNATED SEISMIC SYSTEMS AND OTHER BUILDING STRUCTURE COMPONENTS SHALL BE AS OUTLINED IN THE SPECIAL INSPECTIONS AND TESTING SCHEDULE. WHERE REQUIREMENTS OVERLAP, THE MORE STRINGENT IS TO BE USED.

DISTRIBUTION OF REPORTS

COPIES OF THE SPECIAL INSPECTION AND TEST REPORTS SHALL BE DISTRIBUTED TO THE CITY OF VALDEZ CAPITAL PROJECTS OFFICE, THE GENERAL CONTRACTOR, THE ENGINEER OF RECORD, AND THE ARCHITECT OF RECORD. REPORTS SHALL BE COMPLETED DAILY AND DISTRIBUTED ON A WEEKLY BASIS AND SHALL BE DISTRIBUTED BY THE MONDAY FOLLOWING THE WEEK IN WHICH THE INSPECTION OR TEST WAS COMPLETED. A COPY OF ALL SPECIAL INSPECTION REPORTS, DEFICIENCIES, AND CORRECTIVE ACTIONS SHALL BE MAINTAINED AT THE JOB SITE.

CONTRACTOR STATEMENT OF RESPONSIBILITY

CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE OWNER AND THE MOA, IN ACCORDANCE WITH IBC 1704.4. THE STATEMENT SHALL ACKNOWLEDGE AWARENESS OF THE SPECIAL REQUIREMENTS OF THE QUALITY ASSURANCE PLAN; ACKNOWLEDGE THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS; IDENTIFY PROCEDURES FOR EXERCISING CONTROL; THE METHOD AND FREQUENCY OF REPORTING, AND THE DISTRIBUTION OF REPORTS; AND IDENTIFY PERSONS THAT WILL EXERCISE CONTROL AND THEIR QUALIFICATIONS.

SCHEDULE NOTES:

- 1. ITEMS MARKED WITH AN "X" REQUIRE INSPECTION BY A SPECIAL INSPECTOR, ITEMS INDICATED WITH A "T"
- REQUIRE THE SPECIAL INSPECTOR TO OBSERVE QUALITY CONTROL TESTING BY THE CONTRACTOR.
- C.I. = CONTINUOUS SPECIAL INSPECTION DURING PROGRESS OF WORK.
 P.I. = PERIODIC SPECIAL INSPECTION DURING PROGRESS OF WORK.
- 4. WHEN TOTAL QUANTITY OF A GIVEN CLASS OF CONCRETE IS LESS THAN 5 CY, STRENGTH TESTS ARE NOT
- REQUIRED.
- 5. SPECIAL INSPECTION NOT REQUIRED FOR SHEAR WALLS OR DIAPHRAGMS, INCLUDING BOLTING, HOLDOWNS AND OTHER FASTENINGS. WHEN SHEATHING IS ON ONE SIDE ONLY AND SPACING OF NAILS IS MORE THAN 4-
- 11. ITEMS INDICATED WITH A "T" REQUIRE TESTING, WITH A "D" REQUIRE SPECIFIC DOCUMENTATION, WITH AN "O" SHALL BE OBSERVED ON A RANDOM BASIS, AND WITH A "P" SHALL BE PERFORMED ON EACH CONNECTION AS DESCRIBED IN AISC 360 N.5.4.
- 12. QUALITY CONTROL (QC) IS PERFORMED BY THE CONTRACTOR PER AISC 360 N.5.1.
- 13. QUALITY ASSURANCE (QA) IS PERFORMED BY THE SPECIAL INSPECTOR PER AISC 360 N.5.2.
- 14. THE "PERFORM" REQUIREMENT MAY BE REDUCED TO "OBSERVE" IF AFTER 10 WELDS, A GIVEN WELDER HAS DEMONSTRATED UNDERSTANDING OF THESE REQUIREMENTS. IF THE WELDER'S PERFORMANCE IS DISCONTINUED, IT SHALL BE RETURNED TO A "PERFORM" QUALITY CONTROL INSPECTION.

REVISIONS

No Description Date

JASON E KWIATKOWSKI
No. CE 118884

22-09-13

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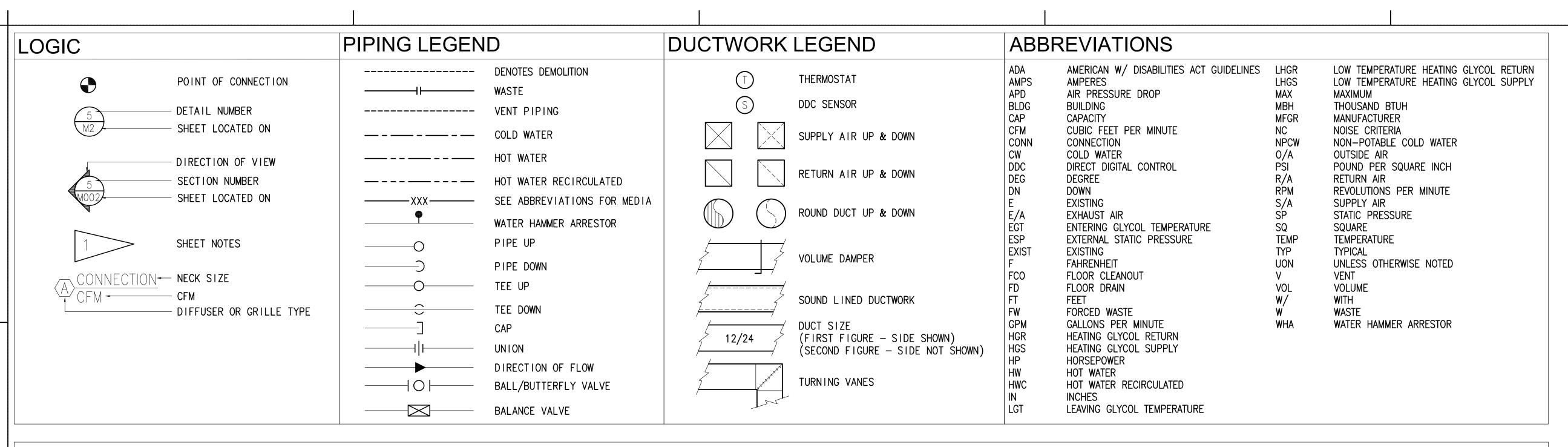
BDS Project No.: Client Project No.:

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22-09-13

SPECIAL INSPECTION

S1.04



PLUMBING FIXTURE SCHEDULE

The Lewis Hart of the Contract								
SYMBOL	FIXTURE	MOUNTING CW	HW/TW WASTE	VENT	TRAP BASIS OF DESIGN	BASIC MODEL	COLOR/FINISH	TRIM/REMARKS
DD-1	POOL DECK DRAIN	FLOOR	1-1/2	'	1-1/2 STEGMEIER	TREADMASTER	WHITE	DOUBLE WALL BASE, SNAP IN ALUMINUM TOP. FITTINGS AND CONNECTORS AS REQUIRED FOR LAYOUT.

SECTION 22 05 00: 23 05 00 - COMMON WORK RESULTS FOR MECHANICAL

THE INFORMATION SHOWN ON THESE PLANS FOR EXISTING CONDITIONS IS TAKEN FROM AS-BUILT DRAWINGS AND A NON-DESTRUCTIVE INVESTIGATION OF THE FACILITY. THE INFORMATION SHOWN FOR EXISTING CONDITIONS MAY OR MAY NOT BE ACCURATE OR COMPLETE. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.

PLANS — THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM. THE DRAWINGS ARE PARTLY DIAGRAMMATIC, NOT NECESSARILY SHOWING ALL OFFSETS OR EXACT LOCATIONS OF PIPING AND DUCTS UNLESS SPECIFICALLY DIMENSIONED. CONTRACTOR IS TO COORDINATE PIPING LOCATIONS WITH ARCHITECTURAL AND STRUCTURAL PLANS TO AVOID CONFLICTS. BRING QUESTIONABLE OR OBSCURE ITEMS, APPARENT CONFLICTS BETWEEN PLANS AND SPECIFICATIONS, GOVERNING CODES OR UTILITY REGULATIONS TO THE ATTENTION OF THE OWNER. CODES, ORDINANCES, REGULATIONS, STANDARDS, OR MANUFACTURER'S INSTRUCTIONS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT OR CONFLICT WITH THE DRAWINGS AND SPECIFICATIONS. MAINTAIN CODE MINIMUM MECHANICAL SERVICE TO ALL AREAS IMPACTED BY WORK WHERE STILL OCCUPIED BY THE OWNER.

STANDARDS, CODES, AND REGULATIONS — ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE INTERNATIONAL BUILDING CODE (IBC), INTERNATIONAL MECHANICAL CODE (IMC), UNIFORM PLUMBING CODE (UPC), AND INTERNATIONAL ENERGY CONSERVATION CODE (IECC) AS AMENDED BY THE STATE OF ALASKA.

PERMITS — THE CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY PERMITS AND FEES.

SUBMITTALS — SUBMITTALS SHALL BE IN ELECTRONIC FORM. THE DATA SHALL BE ARRANGED AND BOOKMARKED BY SPECIFICATION SECTION. SUBMIT ON ALL SCHEDULED EQUIPMENT AND ALL MATERIALS AND EQUIPMENT AS NOTED IN THE SPECIFICATIONS.

MATERIALS — ALL MATERIALS OTHER THAN OWNER SUPPLIED SHALL BE NEW AND UNUSED, INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS AND IN THE BEST PRACTICE OF THE CRAFT. OBTAIN OWNER APPROVAL OF ALL PRODUCTS PRIOR TO ORDERING OR INSTALLING ANY PART OF ANY SYSTEM.

EQUIPMENT SUBSTITUTIONS — ALL EQUIPMENT LISTED AND SCHEDULED ARE REPRESENTATIVE OF THE STANDARD OF QUALITY AND PERFORMANCE REQUIRED. "OR EQUAL" SUBSTITUTIONS WILL BE CONSIDERED IF SUBSTITUTE DATA SHEETS ARE SUBMITTED AND ARE SHOWN TO BE OF EQUAL OR BETTER QUALITY, INCLUDING EFFICIENCY OF PERFORMANCE, AND SIZE AND WEIGHT. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR ALL SUBSTITUTIONS.

WORKMANSHIP — INSTALLATION OF ALL WORK SHALL BE MADE SO THAT ITS SEVERAL COMPONENT PARTS SHALL FUNCTION AS A WORKABLE SYSTEM COMPLETE WITH ALL ACCESSORIES NECESSARY FOR ITS OPERATION. ALL MATERIAL AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, INSTRUCTIONS AND/OR INSTALLATION DRAWINGS. MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL CONFORM WITH APPLICABLE INDUSTRY STANDARDS, AND THIRD PARTY LISTINGS WHERE APPLICABLE.

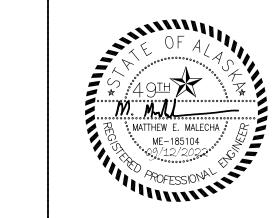
WARRANTY — ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM PROJECT COMPLETION AND OWNER ACCEPTANCE. ANY FAULTY MATERIALS OR WORKMANSHIP SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER DURING THE WARRANTY PERIOD.

OPERATION AND MAINTENANCE MANUAL — PROVIDE THE OWNER WITH AN OPERATING AND MAINTENANCE MANUAL. TO INCLUDE DATA CUTSHEETS MARKED WITH THE SPECIFIC ITEM USED, MANUFACTURER'S SPECIFICATIONS, OPERATING AND MAINTENANCE INSTRUCTIONS, WARRANTY INFORMATION ON EACH PIECE OF EQUIPMENT, RECORD DRAWINGS WITH INSTALLED LOCATIONS NOTED, SOURCE OF SUPPLY FOR SPARE PARTS AND SERVICE. OPERATION AND MAINTENANCE MANUAL SHALL BE IN ELECTRONIC FORM AND SHALL BE SUBMITTED FOR REVIEW. THE DATA SHALL BE ARRANGED AND BOOKMARKED BY SPECIFICATION SECTION.

RECORD DRAWINGS — PROVIDE ACCURATE PROJECT RECORD DRAWINGS, SHOWN IN RED INK ON A CLEAN SET OF PRINTS. SHOWING ALL CHANGES FROM THE ORIGINAL PLANS MADE DURING INSTALLATION OF THE WORK. SHOW THE DIMENSIONED LOCATION AND ROUTING OF ALL MECHANICAL WORK THAT IS PERMANENTLY CONCEALED. SHOW ROUTING OF WORK IN PERMANENTLY CONCEALED BLIND SPACES WITHIN THE BUILDING. SHOW COMPLETE ROUTING AND SIZING OF ANY SIGNIFICANT REVISIONS TO THE SYSTEMS SHOWN. SUBMIT ORIGINAL COPY TO OWNER AT THE COMPLETION OF WORK AND PRIOR TO SUBSTANTIAL COMPLETION INSPECTION. PROVIDE ELECTRONIC COPY OF UPDATED CONTROLS SHOP DRAWINGS INCLUDING PLANS, PANEL WIRING DIAGRAMS, AND SEQUENCES OF OPERATIONS TO ACCURATELY REFLECT INSTALLED CONDITIONS.

SECTION 22 10 00 - PLUMBING PIPING

- A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL, PIPING SYSTEM PRESSURE TEST RESULTS.
- B. MATERIALS:
 - 1. WASTE PIPING, BELOW GRADE CAST IRON PIPE: CISPI 301, HUBLESS, SERVICE WEIGHT. FITTINGS: CAST IRON. JOINTS: NEOPRENE GASKETS AND STAINLESS STEEL CLAMP—AND—SHIELD ASSEMBLIES.



REVISIONS

Description Date







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COV VHS POOL
COLUMN REPAIR
319 ROBE RIVER DR.

319 ROBE RIVER DR.

RSA Project No.: M2127.00
Client Project No.:

BID DOCUMENTS
09/12/2022

MECHANICAL
LEGEND, SCHEDULES
AND ABBREVIATIONS
MO.01

REVISIONS

Description Date

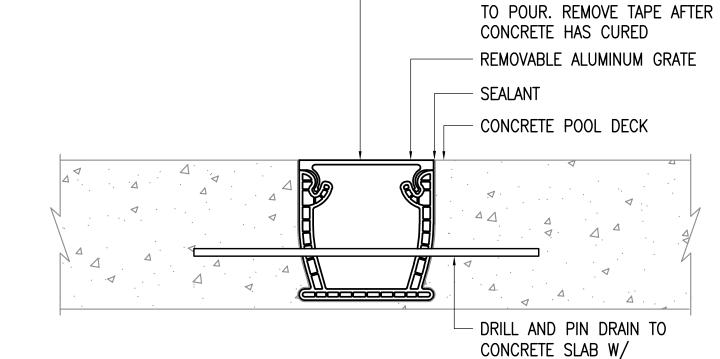
GENERAL NOTES:

THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM AS BUILT DRAWINGS AND/OR A NON- DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.

SHEET NOTES:

- DEMOLISH EXISTING POOL DECK DRAIN AS INDICATED. DEMOLISH POOL DECK SLAB AS REQUIRED FOR DRAIN DEMOLITION. APPROXIMATE EXTENTS OF SLAB DEMOLTION SHOWN, COORDINATE W/ STRUCTURAL PLANS.
- APPROXIMATE LOCATION OF UNDERSLAB DECK DRAIN PIPING CONNECTION. VERIFY SIZE AND LOCATION OF PIPING CONNECTION FOR NEW DECK DRAIN.
- 3. INSTALL POOL DECK DRAIN <u>DD-1</u> AROUND REPAIRED STRUCTURAL COLUMN AS INDICATED. COORDINATE LOCATION OF DRAIN WITH STRUCTURAL SLAB REINFORCEMENT, SEE STRUCTURAL PLANS. CONNECT DECK DRAIN OUTLET TO EXISTING DRAIN PIPING BELOW POOL DECK. FOR DECK DRAIN DETAIL SEE - 3

M1.01

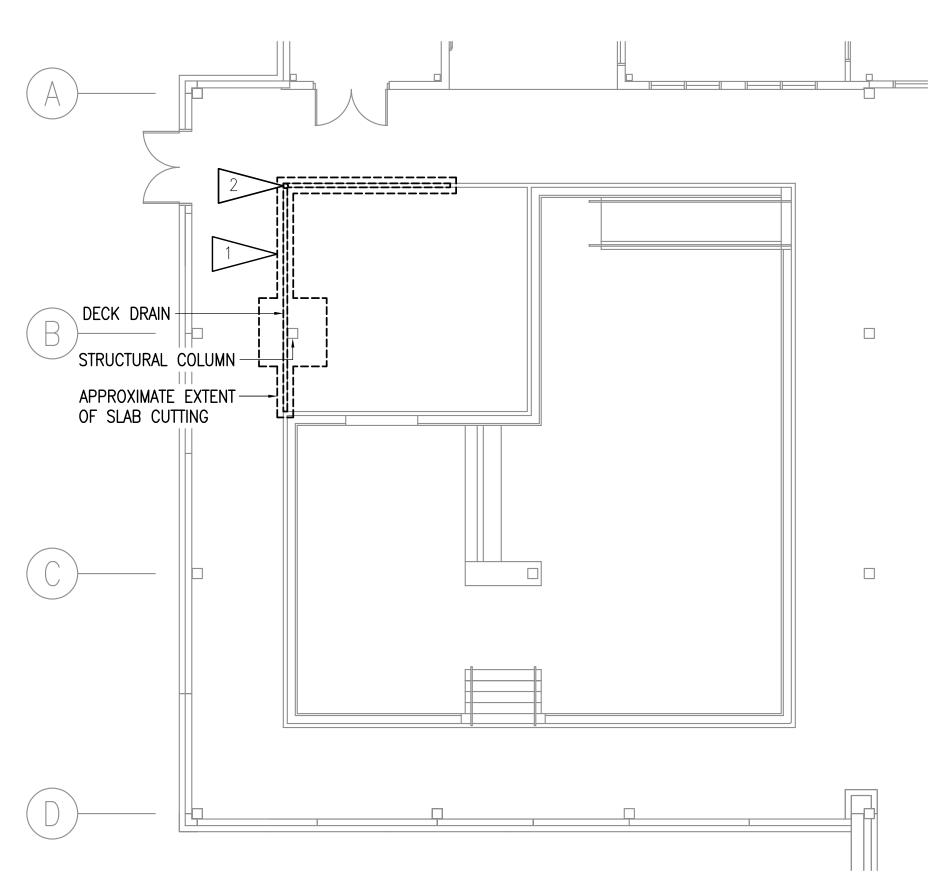


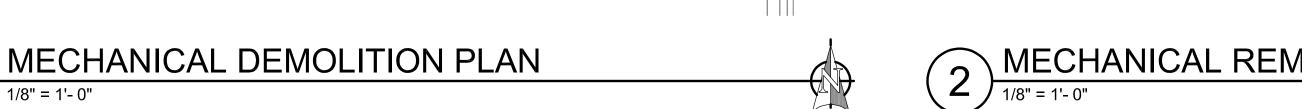
PROVIDE BOND BREAKER TAPE AT ALL ALUMINUM IN CONTACT WITH FRESH CONCRETE PRIOR

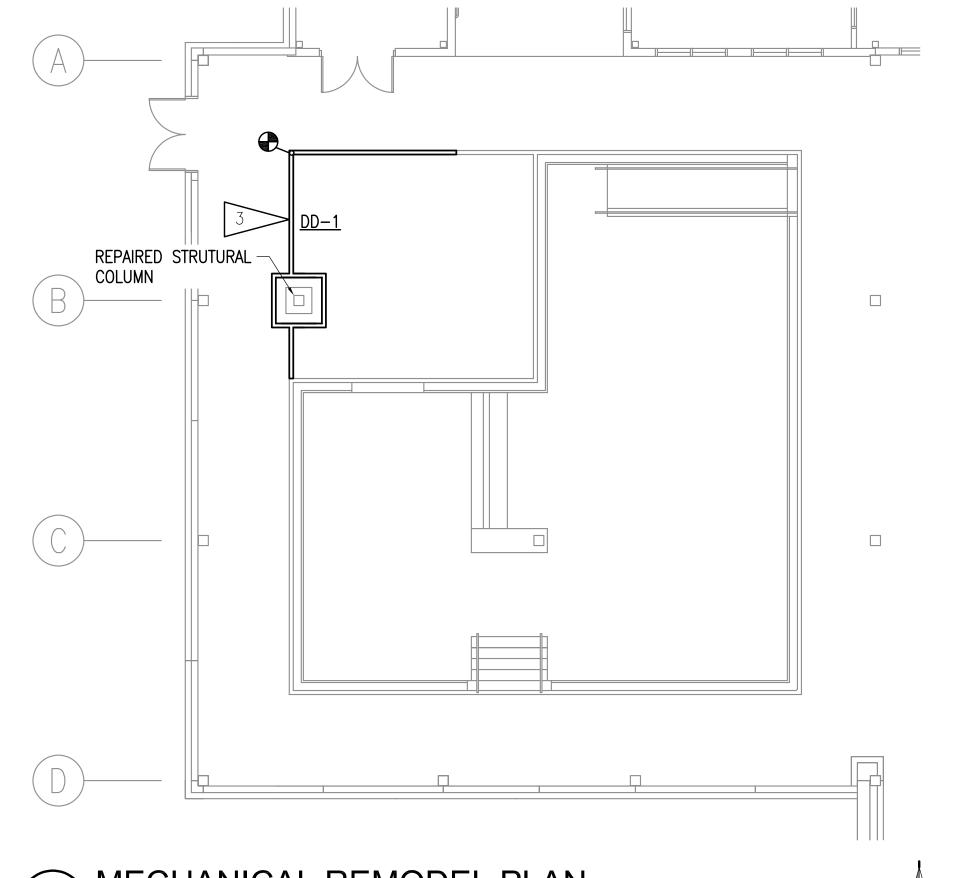
12"L x 3/8"ø FIBERGLASS

DOWELS AT 3' INTERVALS

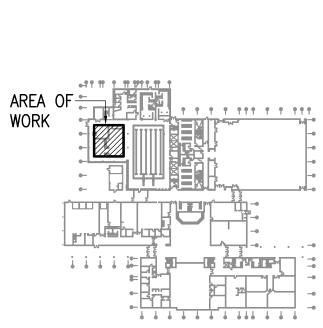
POOL DECK DRAIN DETAIL







MECHANICAL REMODEL PLAN



KEY PLAN NO SCALE

Mechanical and Electrical Consulting Engineers 670 West Fireweed Lane, Suite 200 Anchorage, AK 99503 (907) 276-0521 Corporate No.: AECC542

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COV VHS POOL COLUMN REPAIR

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MECHANICAL PLANS AND DETAILS

09/12/2022

M1.01