CONCRETE REINFORCEMENT

CN5.1 CONCRETE PLACING, FABRICATION, AND PLACEMENT OR REINFORCEMENT SHALL CONFORM TO ACI 318.
CN5.2 ALL WELDED CONNECTIONS TO FABRICATE REBAR IS TO BE AS SHOWN WITH A COMMERCIAL QUALITY WELDING PROCESS.

SPECIAL INSPECTION

SP2 THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR TO PERFORM THE REQUIRED TESTS AND SPECIAL INSPECTIONS WITH QUALITATIVE TESTING PERFORMED AS PER BC CHAPTER 17 AND THE PROJECT SPECIFICATIONS.
SP3 SPECIAL INSPECTION REPORTS SHALL BE FURNISHED TO BUILDING OFFICIAL, CONTRACTOR, ARCHITECT, STRUCTURAL ENGINEER & CONTRACTOR.
SP4 SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT STATING THAT THE STRUCTURAL WORK WAS TO THE BEST OF THE SPECIAL INSPECTOR'S KNOWLEDGE AND ABILITY IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.

SPECIAL INSPECTION PROGRAM:

SP5 SPECIAL INSPECTION PROGRAM.

CONCRETE

1. INSPECT REINFORCEMENT, INCLUDING PRESTressing TENSIONS, AND VERIFY PLACEMENT.
2. INSPECT ANCHORS CAST IN CONCRETE.
3. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.
   A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ARTICLES TO RESIST SUSTAINED TENSION LOAD.
   B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A.
4. VERIFY USE OF REQUIRED DESIGN MIX.
5. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH, COMPACTION, SLUMP & AIR CONTENT TESTS AND DETERMINE CONCRETE TEMPERATURE.
6. INSPECT CONCRETE PLACEMENT FOR PROPER PLACEMENT TECHNIQUES.
7. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE & TECHNIQUES.
8. INSPECT PRECAST CONCRETE FOR:
   A. APPICATION OF PRECAST FORCES.
   B. GRUETING OF BONDED PRESTRESSING TENDONS.
9. INSPECT MASONRY FOR SHAPE, LOCATION & DIMENSIONS OF THE CONCRETE MEMBERS.
10. INSPECT FORMWORK FOR SHAPE, LOCATION & DIMENSIONS OF THE CONCRETE MEMBERS.

SOILS

1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH & HAVE REACHED PROPER MATERIAL.
3. PERFORM CLASSIFICATION & TESTING OF COMPACTED FILL MATERIALS.
   A. PERFORM CLASSIFICATION OF DRY FILL MATERIALS
   B. PERFORM CLASSIFICATION OF LIQUID FILL MATERIALS
   C. PERFORM CLASSIFICATION OF LFH THRESHOLDS DURING PLACEMENT & COMPACTATION OF COMPACTED FIL.
4. PRIOR TO PLACEMENT OF COMPACTED FIL, OBSERVE SUBGRADE & VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.

PROGRAM NOTES:

1. THE ITEMS INDICATED ABOVE SHALL BE INSPECTED IN ACCORDANCE WITH CHAPTER 17 OF THE BC CODE. SPECIAL INSPECTOR SHALL BE EMPLOYED FROM AN INDEPENDENT TESTING AGENCY.
2. MATERIALS AND TESTING REQUIREMENTS REFER TO THE PROJECT SPECIFICATIONS & THE SPECIFIC STRUCTURAL NOTES SECTIONS.
3. ALL STRUCTURAL TESTING & INSPECTION REPORTS DIRECTLY TO THE ARCHITECT, STRUCTURAL ENGINEER, CONTRACTOR & BUILDING OFFICIAL. ANY MATERIALS WHICH FAIL TO MEET THE PROJECT SPECIFICATIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY TO ALL BUILDING COMPONENTS.
4. SPECIAL INSPECTOR SHALL OBSERVE THESE ITEMS ON A RANDOM BASIS.
5. PERFORM -- SPECIAL INSPECTOR SHALL PERFORM THESE TASKS FOR EACH INTERFACE, CONNECTION, ELEMENT OR MEMBER (ASCI 300 SECTION N5).

Verification and Inspection

Frequency / Task

1. CONCRETE
   - Inspect reinforcement, including prestressing tensions, and verify placement.
   - Inspect anchors cast in concrete.
   - Inspect anchors post-installed in hardened concrete members.
   a. Adhesive anchors installed in horizontally or upwardly inclined articles to resist sustained tension load.
   b. Mechanical anchors and adhesive anchors not defined in 4.A.
   - Verify use of required design mix.
   - Prior to concrete placement, fabricate specimens for strength, compaction, slump & air content tests and determine concrete temperature.
   - Inspect concrete placement for proper placement techniques.
   - Verify maintenance of specified curing temperature & techniques.
   - Inspect precast concrete for:
     a. Appication of precasting forces.
     b. Grouting of bonded prestressing tendons.
   - Inspect masonry for shape, location & dimensions of the concrete members.
   - Inspect formwork for shape, location & dimensions of the concrete members.

2. Soils
   - Verify materials below shallow foundations are adequate to achieve the design bearing capacity.
   - Verify excavations are extended to proper depth & have reached proper material.
   - Perform classification & testing of compacted fill materials.
   - Perform classification of dry fill materials.
   - Perform classification of liquid fill materials.
   - Perform classification of LFH thresholds during placement & compactation of compacted fill.
   - Prior to placement of compacted fill, observe subgrade & verify that site has been prepared properly.

FREQUENCY / TASK

1. CONCRETE
   1. IN-CORE EXCAVATIONS MUST BE REVIEWED AND APPROVED BY THE SOILS ENGINEER PRIOR TO PLACEMENT OF CONCRETE.
   2. ACCURATELY SET AND SECURELY SUPPORT REINFORCING, DOWELS, AND ANCHOR RODS IS NOT ALLOWED.
   3. PROVIDE CONSTRUCTION JOINTS, INSERTS, SLEEVES, OPENINGS, CONDUIT, AND OTHER EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
   4. ALL FOUNDATION COLD JOINTS SHALL BE KEYED. CONTINUOUS CONCRETE MEMBER BEING FORMED.
   5. REINFORCING SHOWING ON DETAILS IS THE REQUIRED MINIMUM AT CONTRACTOR'S OPTION AND EXPENSE. ADDITIONAL REINFORCING MAY BE REQUIRED TO ASSIST IN EASE OF CONSTRUCTABILITY.
   6. ADDITIONAL REINFORCING MUST BE SUBMITTED FOR REVIEW ON SHOP DRAWINGS.
   7. PROVIDE VERTICAL WALL JOINTS AS FOLLOWS, U.N.O.: W18 THRU W16 BARS
   8. WALLS SHORTER THAN 16".
   9. WALLS TALLER THAN 16".

2. SOILS
   1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.
   2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH & HAVE REACHED PROPER MATERIAL.
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   4. PERFORM CLASSIFICATION OF DRY FILL MATERIALS
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   6. PERFORM CLASSIFICATION OF LFH THRESHOLDS DURING PLACEMENT & COMPACTATION OF COMPACTED FIL.
   7. PRIOR TO PLACEMENT OF COMPACTED FIL, OBSERVE SUBGRADE & VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.

3. SPECIAL INSPECTION PROGRAM:
   1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENSIONS, AND VERIFY PLACEMENT.
   2. INSPECT ANCHORS CAST IN CONCRETE.
   3. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.
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4. PROGRAM NOTES:
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   4. SPECIAL INSPECTOR SHALL OBSERVE THESE ITEMS ON A RANDOM BASIS.
   5. PERFORM -- SPECIAL INSPECTOR SHALL PERFORM THESE TASKS FOR EACH INTERFACE, CONNECTION, ELEMENT OR MEMBER (ASCI 300 SECTION N5).
NEW RETAINING WALL  
SEE SHEET S3

EXISTING STONE WALL

EXISTING CONC. RETAINING WALL

APPROXIMATE. FIELD VERIFY

280'-0"

RETURN WALL TO CLOSE OFF EXISTING WALL

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THIS NOTICE COVERS DWGS: ALL S-SERIES SHEETS

SIGNATURE:  
NAME:  
DATE:  
MY REGISTRATION EXPIRES IN IOWA: 12/31/19
EXISTING RETAINING WALL TO REMAIN
EXISTING FENCE TO REMAIN
EXISTING STONE WALL TO REMAIN,
DO NOT UNDERMINE B/ WALL

FIELD VERIFY 3' - 6" MIN.
FIELD VERIFY 6' - 6"
FIELD VERIFY
T/FOOTING

SEE PLAN T/FOOTING

FIELD VERIFY T/GRADE

SEE PLAN T/ WALL

FIELD VERIFY T/GRADE

FIELD VERIFY T/FOOTING

BID SET 03/20/18

#5's @ 14" O.C., EA. WAY, EA. FACE

#5's @ 14" O.C., EA. WAY, EA. FACE

#5's @ 14" O.C., EA. WAY, EA. FACE

#5 DOWELS w/ STD. HOOKS & 30" PROJECTION, EA. FACE, MATCH VERT. SPACING

EXISTING ELEV. 128.94 (FIELD VERIFY)

EXISTING STONE WALL TO REMAIN, DO NOT UNDERMINE B/ WALL

DRAIN TILE BY CONTRACTOR
DRAIN TO INTAKE, FLOW ELEV. = 122.74, REFER TO EXISTING CIVIL DRAWINGS

#5 DOWELS w/ STD. HOOKS & 30" PROJECTION, EA. FACE, MATCH VERT. SPACING

EXISTING PAVEMENT

EXISTING RETAINING WALL TO REMAIN

FENCE/RAILING BY CONTRACTOR, EMBED POSTS 6" INTO T/ WALL, SPACE @ 48" O.C., MAX.
CAP w/ TOP SOIL
BACKFILL w/ FREE- DRAINING GRANULAR FILL
3/4" CHAMFER @ EXPOSED CORNERS

SEE CN/S1 FOR VERT. CONTROL JOINT REQUIREMENTS

EXISTING ELEV. 128.94

FIELD VERIFY +/ 6' - 0"
FIELD VERIFY +/ 7' - 0"
FIELD VERIFY +/ 1' - 0"
FIELD VERIFY +/ 10"
FIELD VERIFY +/ 1' - 4"
FIELD VERIFY 2' - 10"
FIELD VERIFY 1' - 0"
FIELD VERIFY 10"
FIELD VERIFY 5' - 0"
FIELD VERIFY 1' - 4"
FIELD VERIFY 4' - 8"
FIELD VERIFY 1' - 0"
1. COLD JOINT GRADE BEAM/FROST BEAM
   \( \frac{1}{2}" = 1' - 0" \)

2. TYP. REINFORCING @ CORNERS
   \( \frac{1}{2}" = 1' - 0" \)