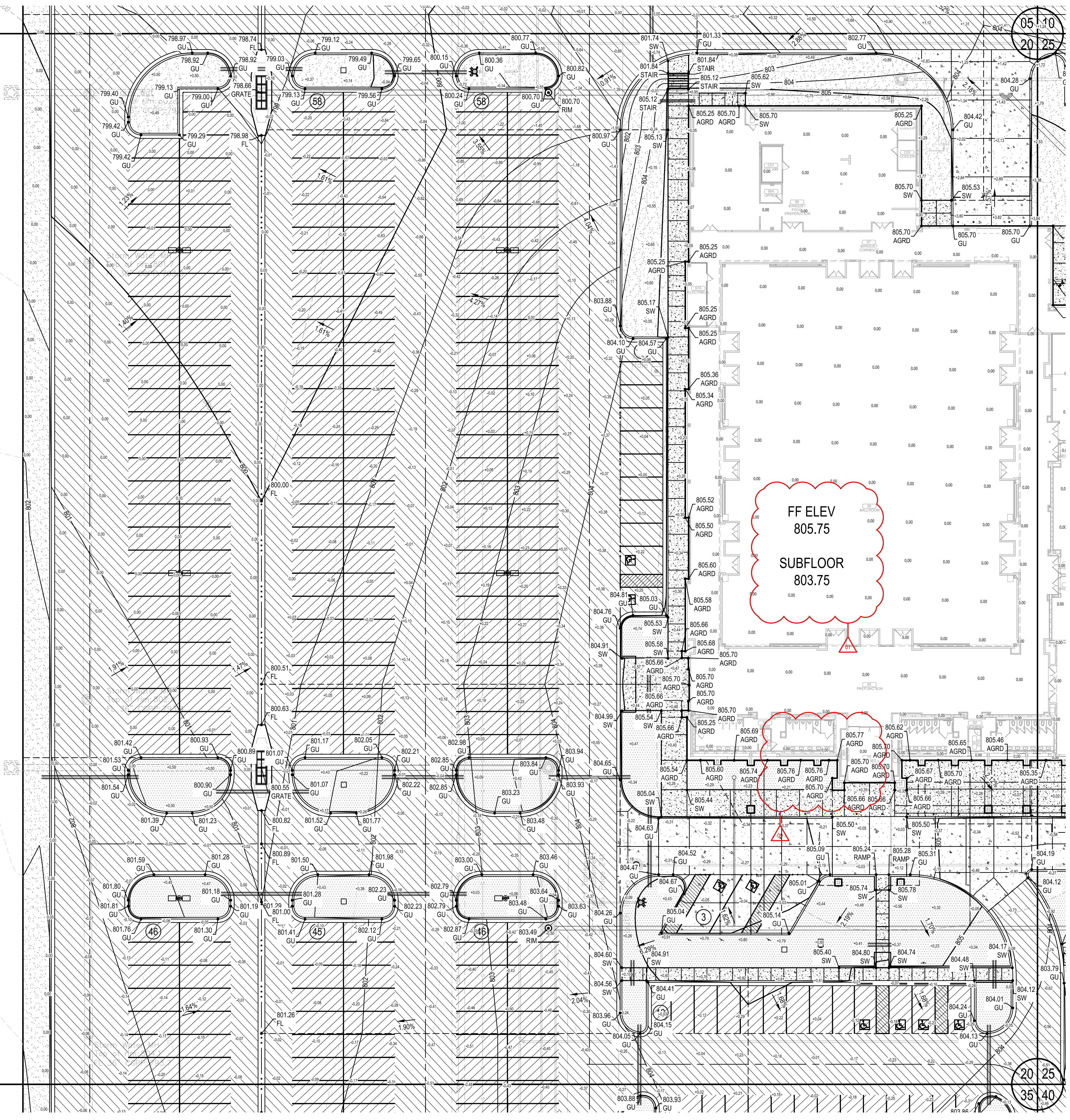


05
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05
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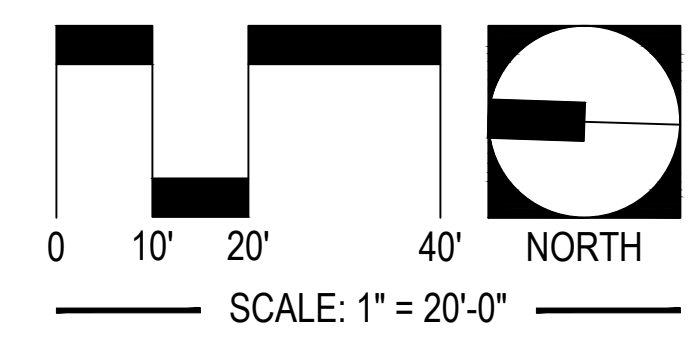
20
35

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35



LEGEND

- PROPOSED PC CONCRETE SIDEWALK / PATIO PER 03/C9.05c. WORK TO BE PERFORMED PER SECTION 32 1313 OF THE PROJECT SPECIFICATIONS. SIDEWALK IMPROVEMENTS IN PUBLIC RW SHALL BE PER CITY OF CITY OF TAHLEQUAH STANDARDS AND SPECIFICATIONS.
- HEAVY-DUTY PAVING SECTION PER 01/C9.05c AND SECTION 32 1216 / 32 1313 OF THE PROJECT SPECIFICATIONS. IN THE EVENT THAT A RIGID PAVING SECTION IS SELECTED BY THE OWNER, CONTRACTOR TO PROVIDE FINAL JOINT LAYOUT TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. EXPANSION AND CONTRACTION JOINTS TO BE CONSTRUCTED PER 04/C9.05c AND 05/C9.05c, RESPECTIVELY.
- LIGHT-DUTY PAVING SECTION PER 01/C9.05c AND SECTION 32 1216 / 32 1313 OF THE PROJECT SPECIFICATIONS. IN THE EVENT THAT A RIGID PAVING SECTION IS SELECTED BY THE OWNER, CONTRACTOR TO PROVIDE FINAL JOINT LAYOUT TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. EXPANSION AND CONTRACTION JOINTS TO BE CONSTRUCTED PER 04/C9.05c AND 05/C9.05c, RESPECTIVELY.
- REINFORCED CONCRETE PAVING SECTION PER 02/C9.05c AND SECTION 32 1313 OF THE PROJECT SPECIFICATIONS. PROVIDED JOINT LAYOUT IS APPROXIMATE. CONTRACTOR TO PROVIDE FINAL JOINT LAYOUT TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. EXPANSION AND CONTRACTION JOINTS TO BE CONSTRUCTED PER 04/C9.05c AND 05/C9.05c, RESPECTIVELY.
- PROPOSED TURF AREA. CONTRACTOR TO INSTALL SOLID SLAB SODDING PER SECTION 32 9223 OF THE PROJECT SPECIFICATIONS. CONTRACTOR RESPONSIBLE FOR IRRIGATION AND MAINTENANCE OF TURF AREA UNTIL SUCH TIME THAT A VIGOROUS VEGETATIVE COVER HAS BEEN ESTABLISHED. SEE SWPPP FOR ADDITIONAL REQUIREMENTS RELATED TO STABILIZATION OF DISTURBED AREAS.
- PROPOSED LANDSCAPE BED. SEE LANDSCAPE DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DETAIL AND INFORMATION.



UTILITY WARNING:
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM RECORD DOCUMENTS OR FIELD LOCATIONS BY THE OPERATOR. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

UTILITY ELEVATIONS AND SIZES MAY HAVE BEEN MEASURED UNDER ADVERSE FIELD CONDITIONS. UPON EXPOSING THE UTILITY, ELEVATIONS AND LINE SIZES SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHOULD VERIFY CRITICAL ELEVATIONS USING THE BENCHMARK PROVIDED BY THE SURVEYOR OR ENGINEER. ANY DISCREPANCIES SHOULD BE IMMEDIATELY BROUGHT TO THE ENGINEER'S AND SURVEYOR'S ATTENTION.

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3/8" = 1'-0"
1/2" = 1'-0"
3/4" = 1'-0"
1" = 1'-0"
1 1/2" = 1'-0"
2" = 1'-0"
3" = 1'-0"
4" = 1'-0"
6" = 1'-0"
8" = 1'-0"
12" = 1'-0"

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PROFESSIONAL SEAL

4/27/2018
DATE

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CA 6447, exp. 06.30.2018

CLIENT:

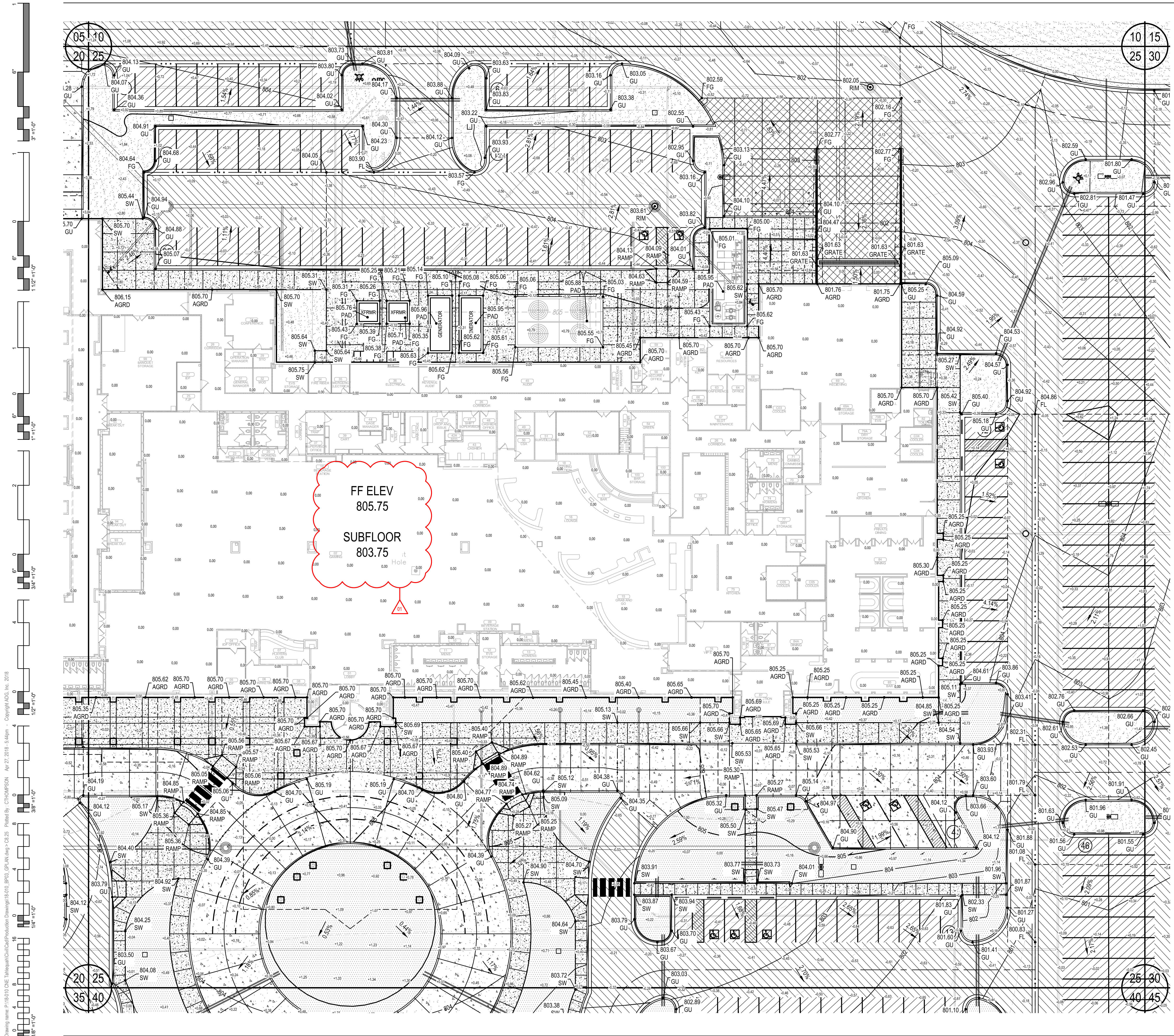
**CHEROKEE NATION
Entertainment**
**Cherokee
CASINO**

**CHEROKEE NATION ENTERTAINMENT
TAHLEQUAH CASINO**
TAHLEQUAH, OKLAHOMA

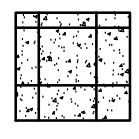
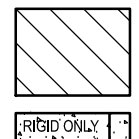
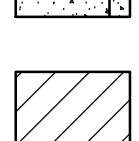
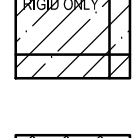
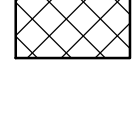
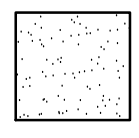
PROJECT PHASE:
BID PACKAGE 04

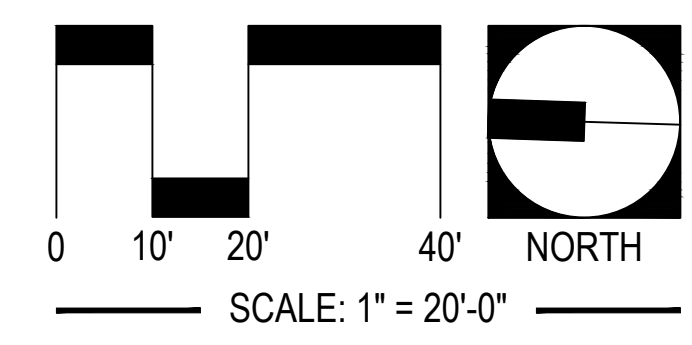
#	DATE	REVISIONS DESCRIPTION
01	8/27/18	ADD DUBS

DATE: 04.20.2018 JOB NUMBER: 17-06
SHEET NUMBER: **C8.20c**
FINISHED GRADING PLAN - AREA 20



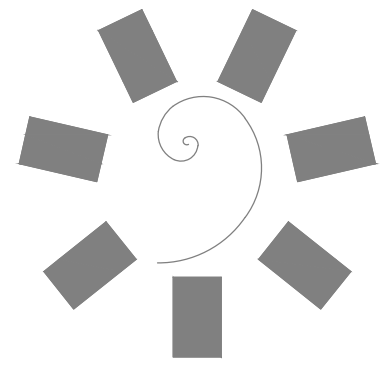
LEGEND

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CA 6447, exp. 06.30.2018



CLIENT:
CHEROKEE NATION ENTERTAINMENT
TAHLEQUAH CASINO
TAHLEQUAH, OKLAHOMA

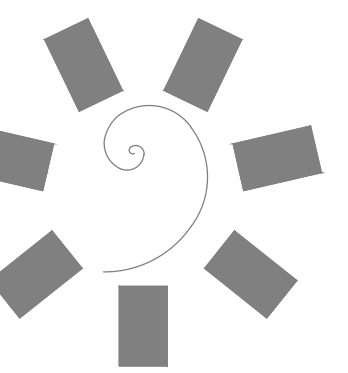
PROJECT PHASE:
BID PACKAGE 04

#	DATE	REVISIONS	DESCRIPTION
01	8/27/2018	ADD/REV	

DATE: 04.20.2018
JOB NUMBER: 17-06

SHEET NUMBER:
C8.25c
FINISHED GRADING
PLAN - AREA 25

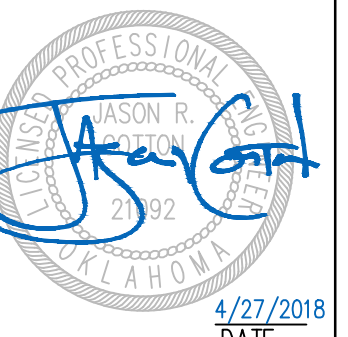
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CLIENT:



CHEROKEE NATION ENTERTAINMENT TAHLEQUAH CASINO TAHLEQUAH, OKLAHOMA

PROJECT PHASE:

BID PACKAGE 01

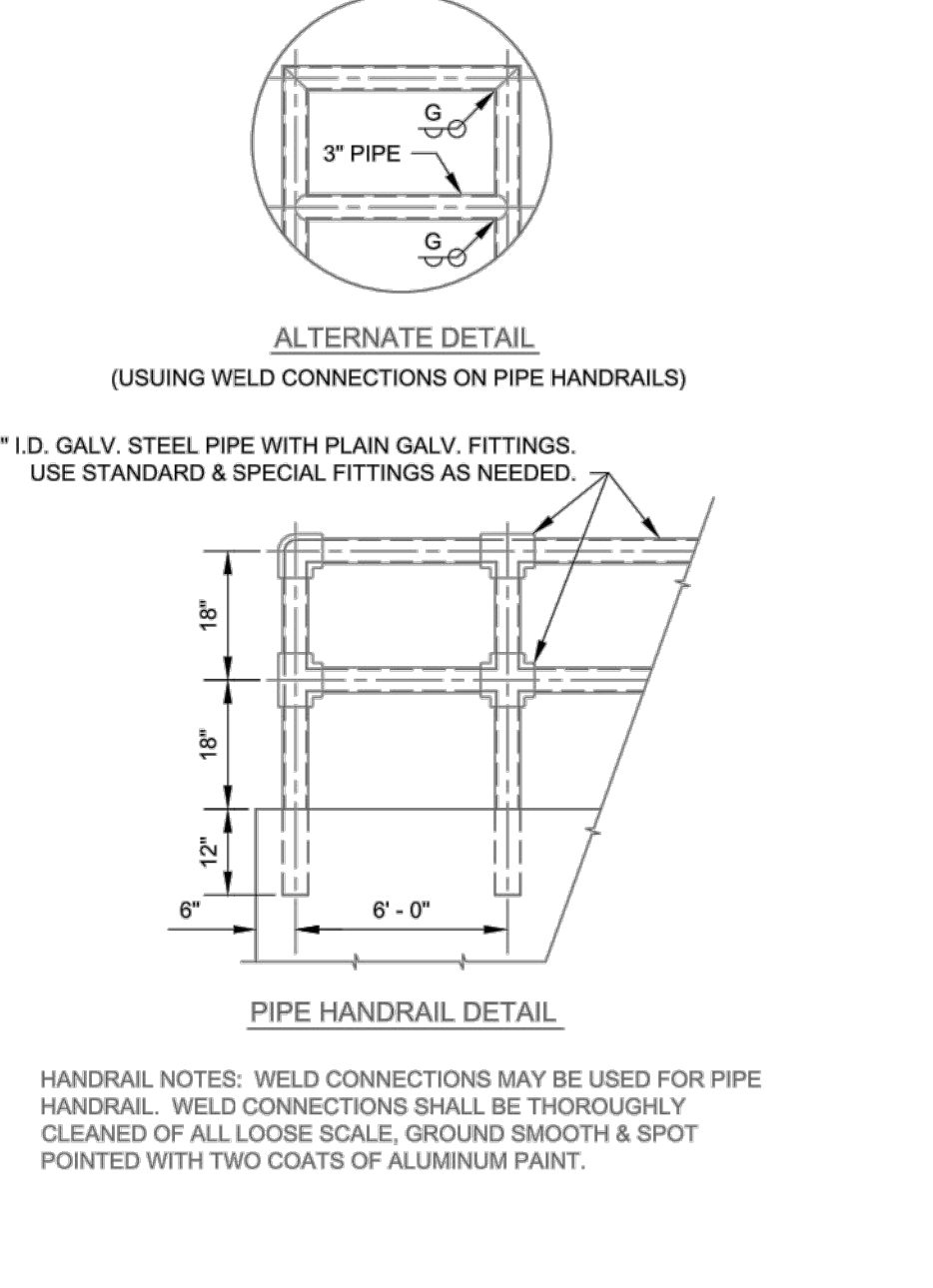
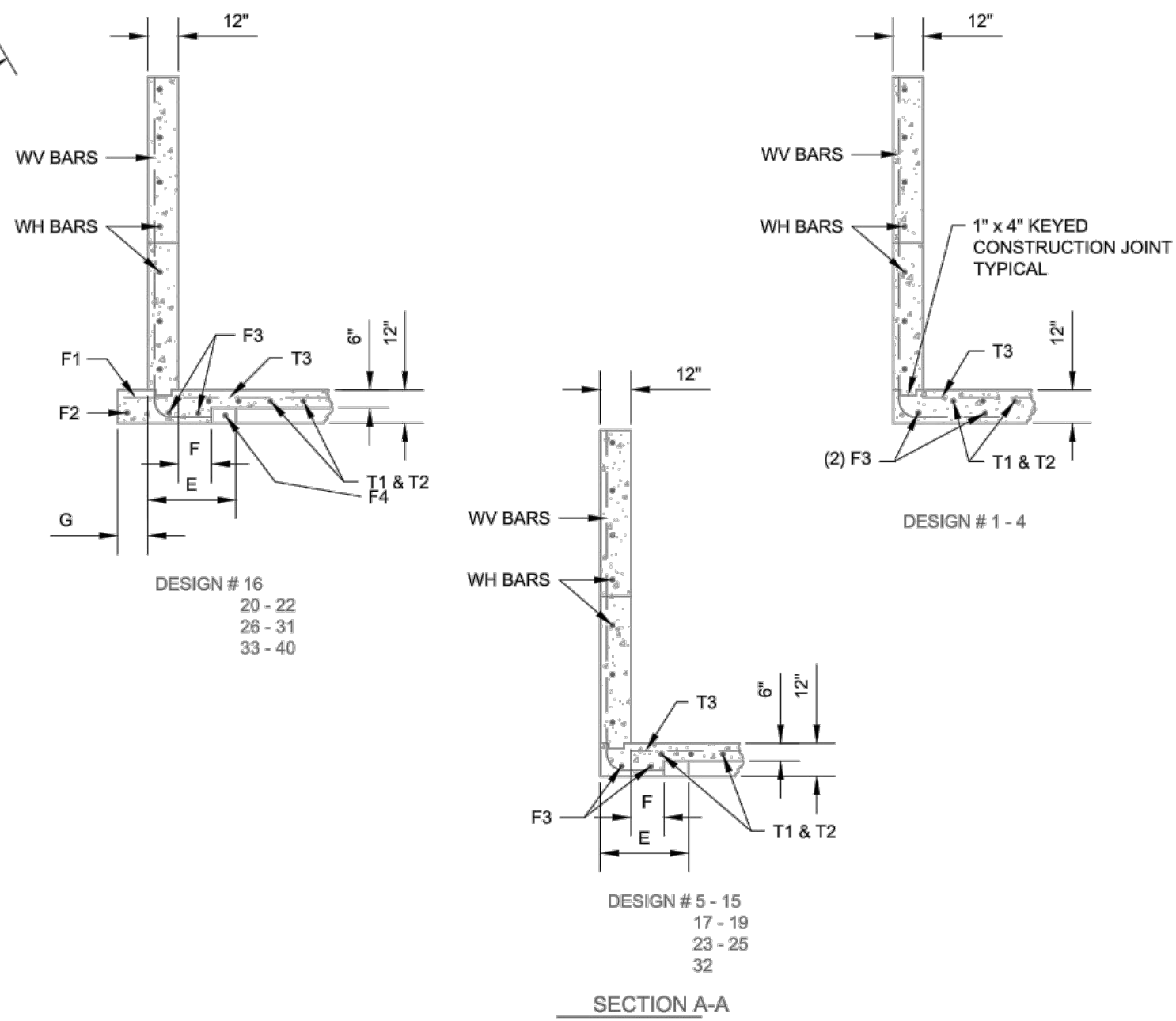
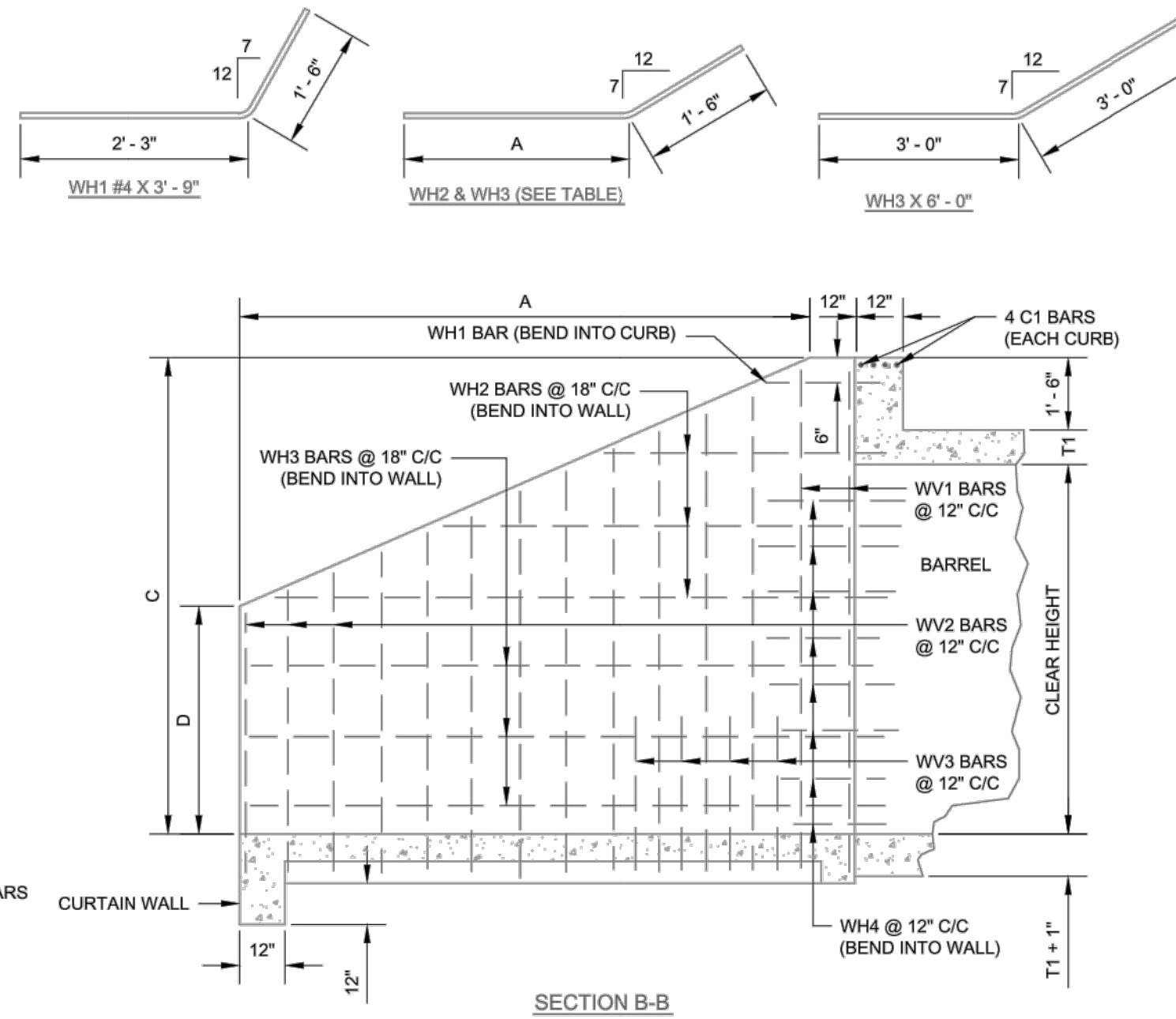
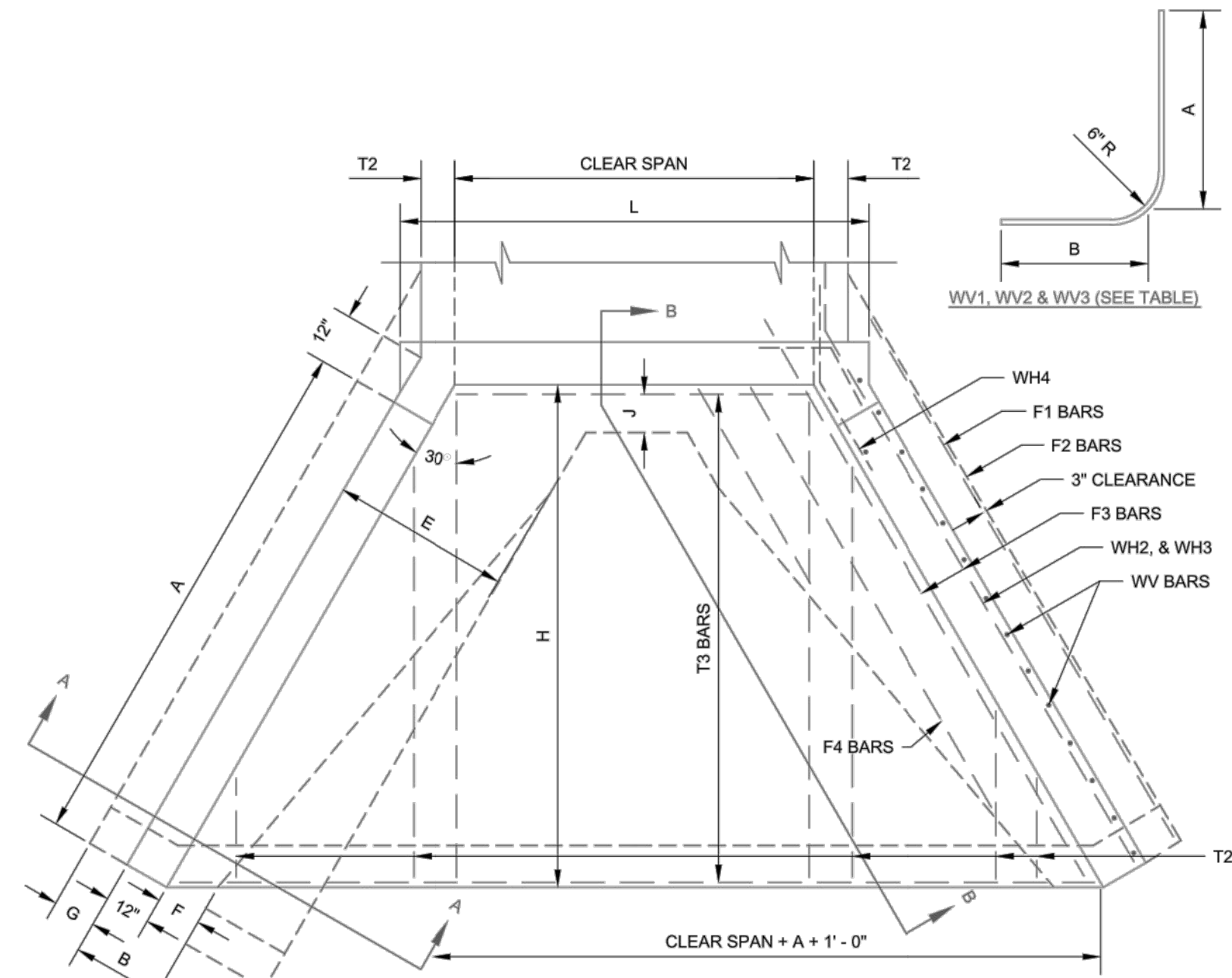
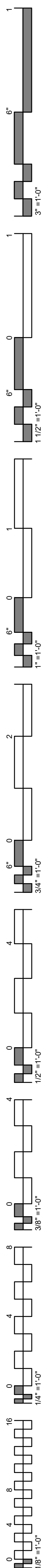
REVISIONS

Table with 3 columns: #, DATE, DESCRIPTION

DATE: 04.27.2018 JOB NUMBER: 17-06

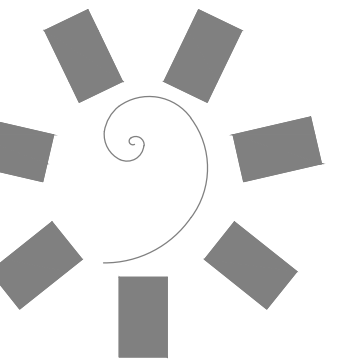
C9.15a

CIVIL CONSTRUCTION DETAILS

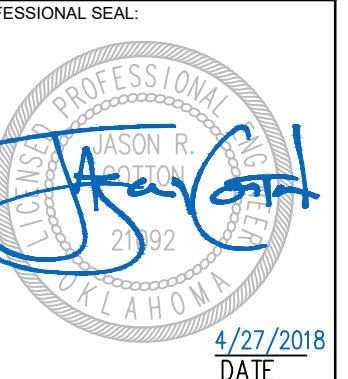


Main reinforcement schedule table with columns for DESIGN #, CLEAR SPAN, CLEAR HEIGHT, A, B, C, D, E, F, G, H, J, L, T1, T2, T3, T4, T5, T6, T7, T8, T9, T10, T11, T12, T13, T14, T15, T16, T17, T18, T19, T20, T21, T22, T23, T24, T25, T26, T27, T28, T29, T30, T31, T32, T33, T34, T35, T36, T37, T38, T39, T40, T41, T42, T43, T44, T45, T46, T47, T48, T49, T50, T51, T52, T53, T54, T55, T56, T57, T58, T59, T60, T61, T62, T63, T64, T65, T66, T67, T68, T69, T70, T71, T72, T73, T74, T75, T76, T77, T78, T79, T80, T81, T82, T83, T84, T85, T86, T87, T88, T89, T90, T91, T92, T93, T94, T95, T96, T97, T98, T99, T100, and TOTAL QUANTITIES.

01 REINFORCED CONCRETE BOX HEADWALL SCALE AS SHOWN



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CHEROKEE NATION ENTERTAINMENT
TAHLEQUAH CASINO
TAHLEQUAH, OKLAHOMA

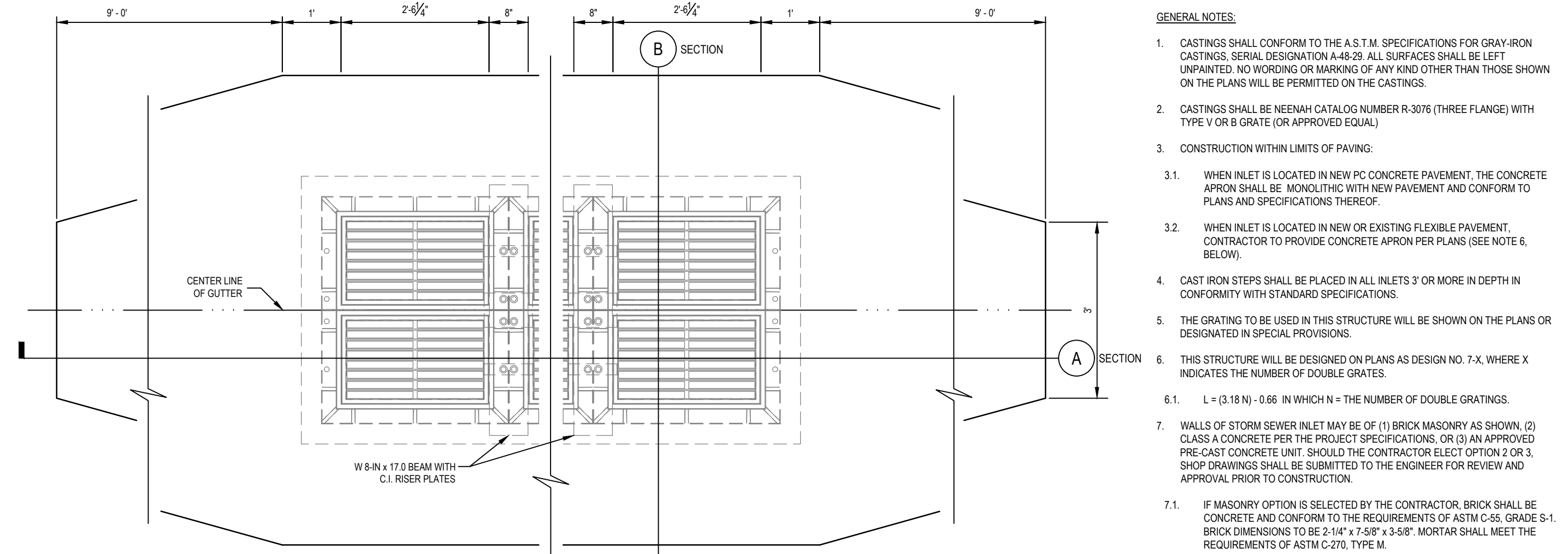
PROJECT PHASE:
**BID PACKAGE 02
(100% SET)**

#	DATE	REVISIONS DESCRIPTION
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2	04.27.2018	ADDENDUM #1

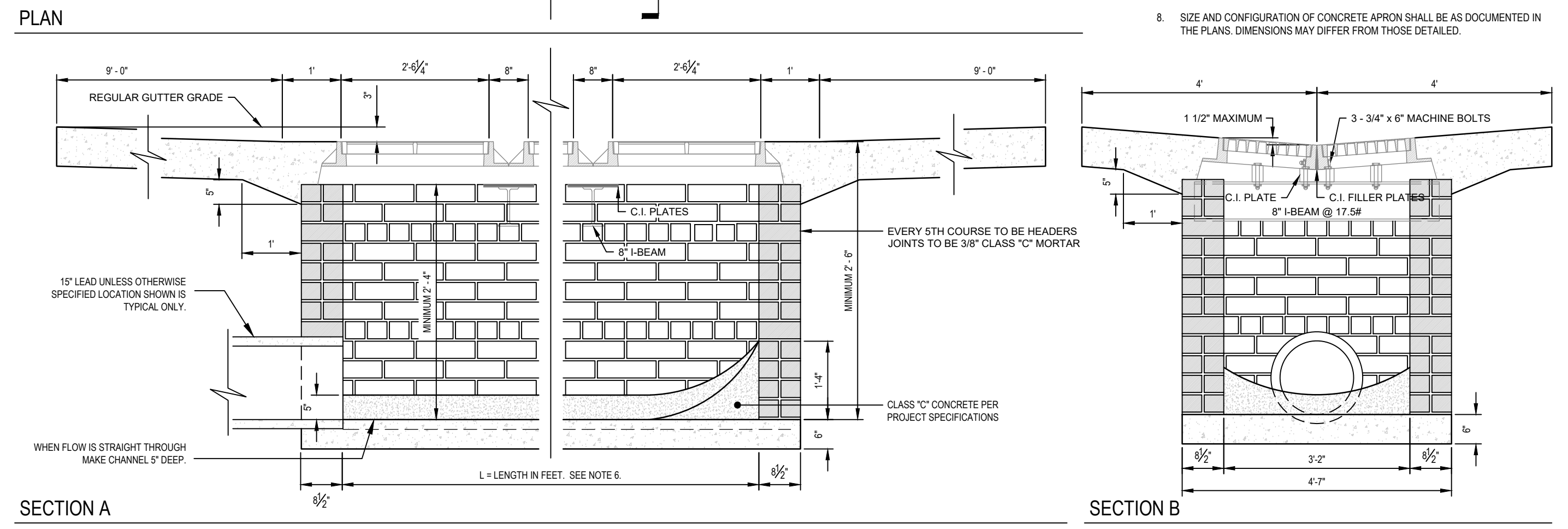
DATE: 04.16.2018 JOB NUMBER: 17-06

SHEET NUMBER: **C9.30b**

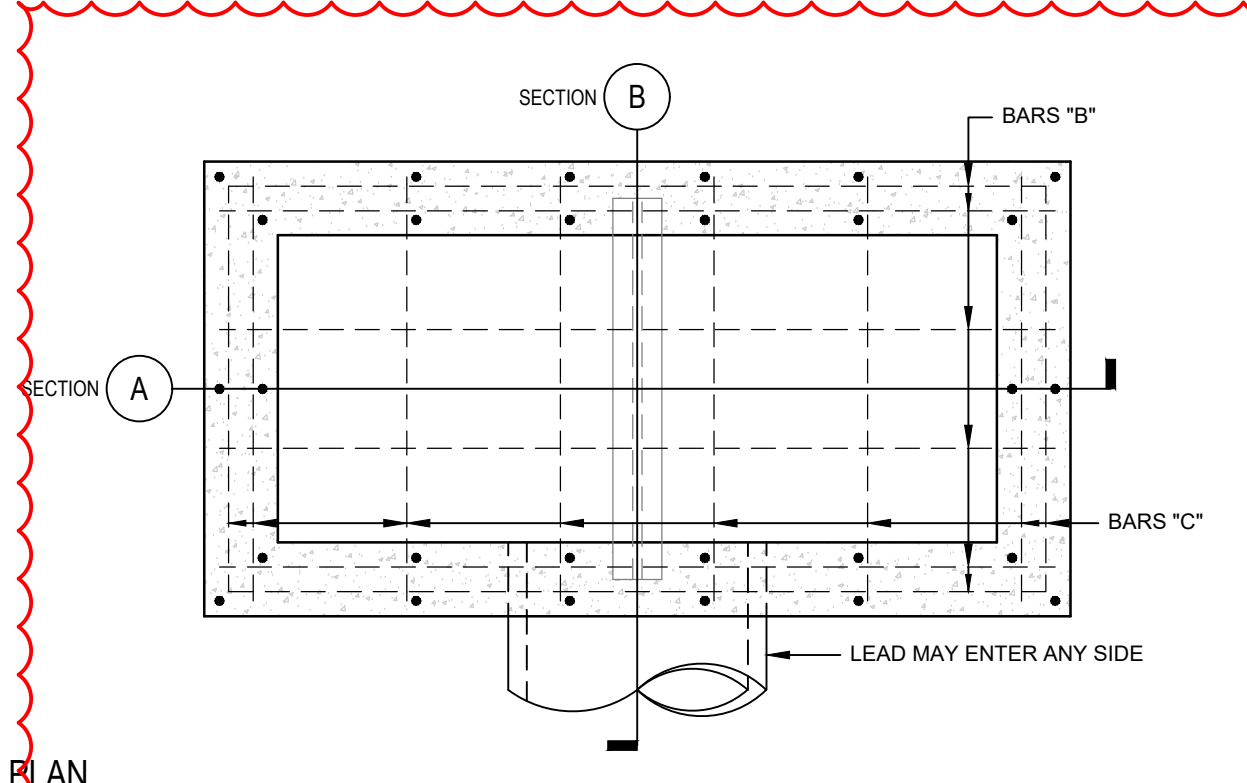
CIVIL CONSTRUCTION DETAILS



- GENERAL NOTES:**
- CASTINGS SHALL CONFORM TO THE A.S.T.M. SPECIFICATIONS FOR GRAY-IRON CASTINGS, SERIAL DESIGNATION A-48-29. ALL SURFACES SHALL BE LEFT UNPAINTED, NO WORDING OR MARKING OF ANY KIND OTHER THAN THOSE SHOWN ON THE PLANS WILL BE PERMITTED ON THE CASTINGS.
 - CASTINGS SHALL BE NENAH CATALOG NUMBER R-3076 (THREE FLANGE) WITH TYPE V OR B GRATE (OR APPROVED EQUAL).
 - CONSTRUCTION WITHIN LIMITS OF PAVING.
 - WHEN INLET IS LOCATED IN NEW PC CONCRETE PAVEMENT, THE CONCRETE APRON SHALL BE MONOLITHIC WITH NEW PAVEMENT AND CONFORM TO PLANS AND SPECIFICATIONS THEREOF.
 - WHEN INLET IS LOCATED IN NEW OR EXISTING FLEXIBLE PAVEMENT, CONTRACTOR TO PROVIDE CONCRETE APRON PER PLANS (SEE NOTE 6, BELOW).
 - CAST IRON STEPS SHALL BE PLACED IN ALL INLETS 2' OR MORE IN DEPTH IN CONFORMITY WITH STANDARD SPECIFICATIONS.
 - THE GRATING TO BE USED IN THIS STRUCTURE WILL BE SHOWN ON THE PLANS OR DESIGNATED IN SPECIAL PROVISIONS.
 - THIS STRUCTURE WILL BE DESIGNED ON PLANS AS DESIGN NO. 7-X, WHERE X INDICATES THE NUMBER OF DOUBLE GRATES.
 - L = (3.18 N) - 0.66 IN WHICH N = THE NUMBER OF DOUBLE GRATINGS.
 - WALLS OF STORM SEWER INLET MAY BE OF (1) BRICK MASONRY AS SHOWN, (2) CLASS 'C' CONCRETE PER THE PROJECT SPECIFICATIONS, OR (3) AN APPROVED PRE-CAST CONCRETE UNIT. SHOULD THE CONTRACTOR ELECT OPTION 2 OR 3, SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
 - IF MASONRY OPTION IS SELECTED BY THE CONTRACTOR, BRICK SHALL BE CONCRETE AND CONFORM TO THE REQUIREMENTS OF ASTM C-55, GRADE S-1, BRICK DIMENSIONS TO BE 2-1/4" x 7-5/8" x 3-5/8". MORTAR SHALL MEET THE REQUIREMENTS OF ASTM C-270, TYPE M.
 - SIZE AND CONFIGURATION OF CONCRETE APRON SHALL BE AS DOCUMENTED IN THE PLANS. DIMENSIONS MAY DIFFER FROM THOSE DETAILED.



03 DESIGN NO. 7 GRATED AREA INLET
SCALE: AS SHOWN



CICI INLET DESIGN NUMBER

DESIGN No.	GRATES	HOODS
2-0	2	2
2-1	2	4
2-2	2	6
2-3	2	8
2-4	2	10
3-0	4	4
3-1	4	6
3-2	4	8
3-3	4	10
3-4	4	12

QUANTITIES FOR DESIGN 2-0 CICI

SIZE OF LEAD	H (MINIMUM)	F (MINIMUM)	CLASS A CONCRETE (C.Y.)	REINFORCING STEEL (LBS)
18"	2'-8 1/2"	2.57-FT	1.02	137
24"	3'-3"	3.11-FT	1.18	147
30"	3'-9 1/2"	3.66-FT	1.34	180

DESIGN 2-0 CICI: PER ADDITIONAL FOOT OF DEPTH

SIZE OF LEAD	CLASS A CONCRETE (C.Y.)	VERTICAL REBAR (LBS)	BAR A (MIN / LBS)	BAR B (MIN / LBS)	BAR C (MIN / LBS)	BAR A (MIN / LBS)
18"	0.295	19	H + 0'-0" / 14	5'-0" / 14	2'-0" / 16	H + 0'-0" / 14
24"			5'-0" / 16	2'-0" / 20		
30"						

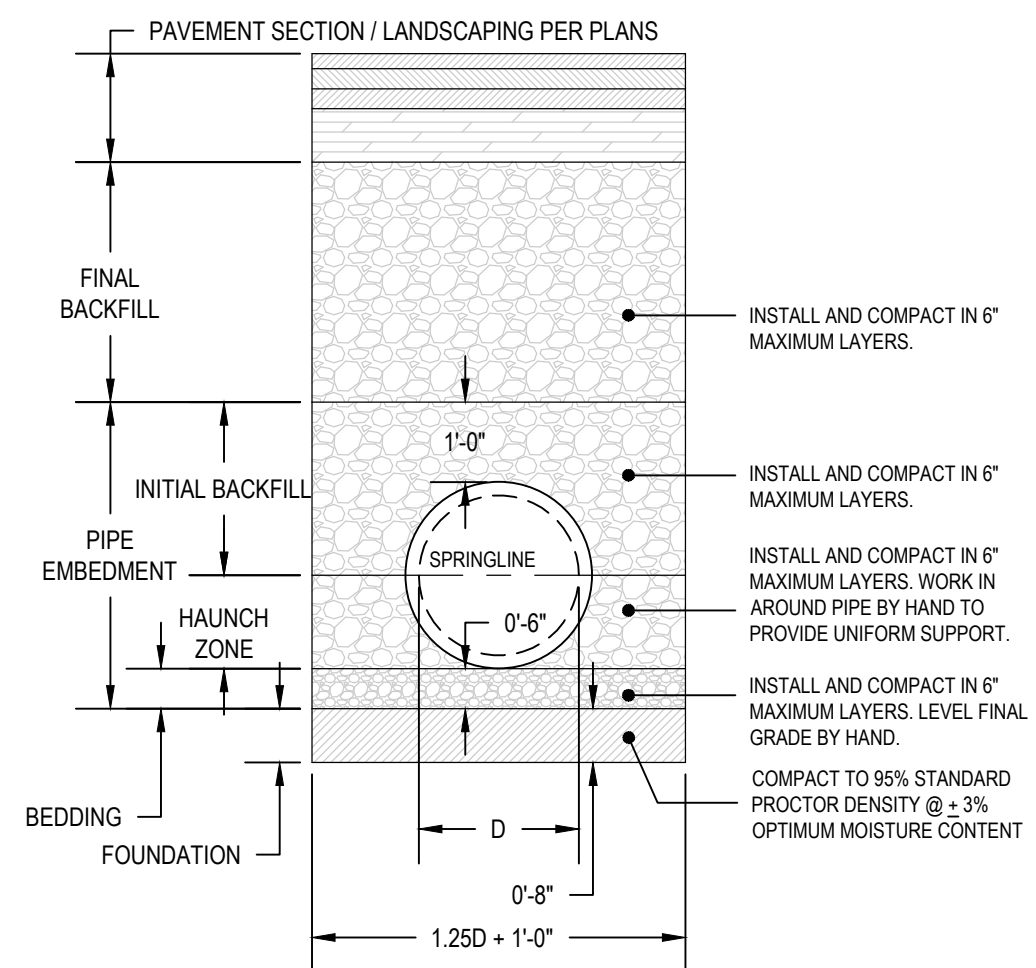
ALL BARS SHALL BE NO. 4 UNLESS OTHERWISE NOTED

BRICK OPTION (6-IN PC CONCRETE FLOOR, 8-IN BRICK WALLS)

DESIGN NO.	2-0	2-1	2-2	2-3	2-4
BRICK (1/2" JOINTS)	445	725	995	1250	1495
1:2 MORTAR (C.Y.)	0.32	0.53	0.72	0.95	1.09
CLASS A CONCRETE	0.40	0.60	0.80	1.00	1.20

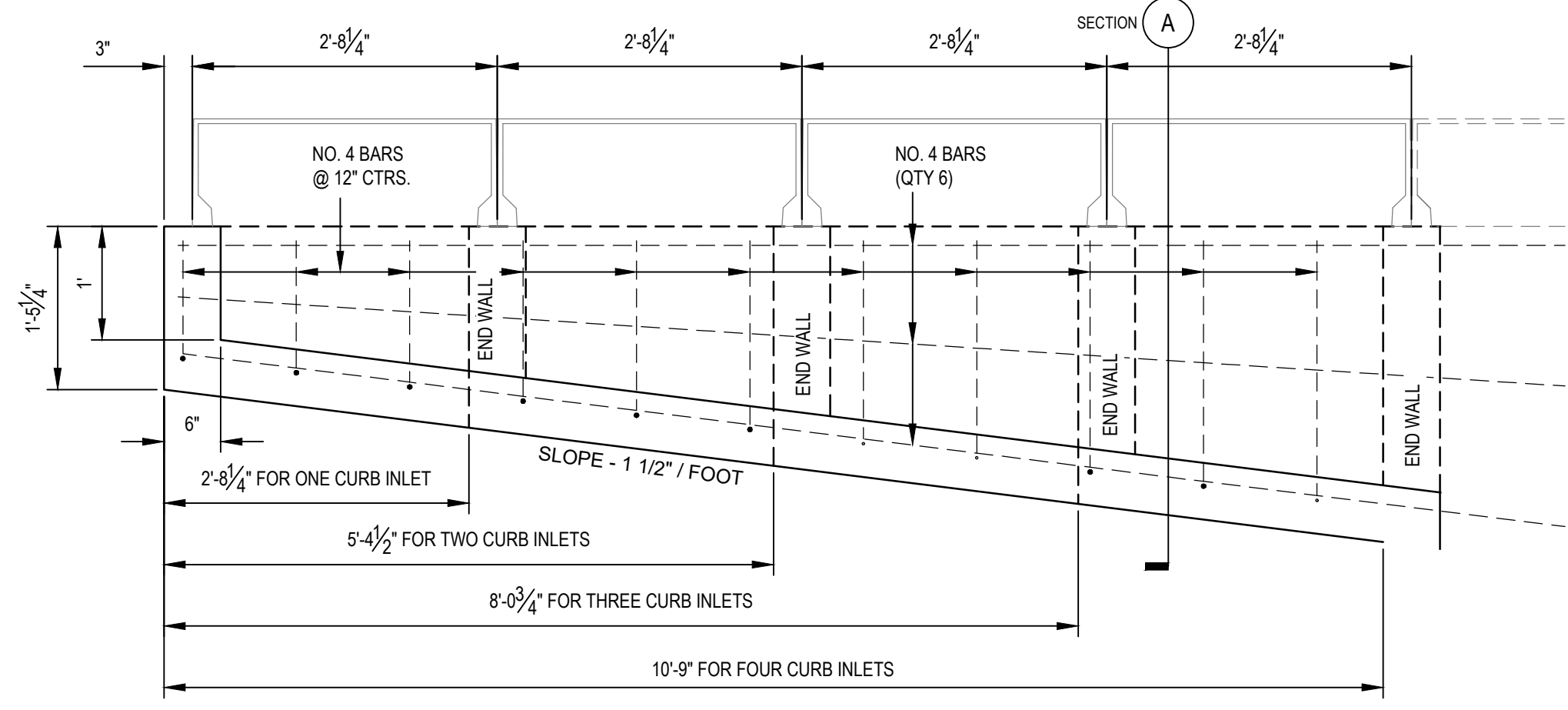
- GENERAL NOTES:**
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 - ALL BOLTS USED TO SECURE CASTINGS SHALL BE MACHINED.
 - CURB INLETS SHALL BE PLACED ON UPSTREAM SIDE OF GRATE INLETS UNLESS OTHERWISE SPECIFIED. CONCRETE TROUGH FOR CURB INLETS AND CONCRETE STORM SEWER INLETS SHALL BE CONSTRUCTED AS ONE UNIT.
 - CASTINGS SHALL BE AS FOLLOWS UNLESS OTHERWISE INDICATED ON THE PLANS:
 - FRAME AND GRATE:
 - DESIGN No. 1 (3-FLANGE): NENAH CATALOG NUMBER R-3076 WITH TYPE V GRATE (OR APPROVED EQUAL).
 - DESIGN No. 2: NENAH CATALOG NUMBER R-3077 WITH TYPE V GRATE (OR APPROVED EQUAL).
 - ADDITIONAL GRATES: NENAH CATALOG NUMBER R-3078 WITH TYPE V GRATE (OR APPROVED EQUAL).
 - CURB HOODS
 - 6-IN BARRIER CURB: NENAH CATALOG NUMBER R-3076-6B (OR APPROVED EQUAL).
 - 8-IN BARRIER CURB: NENAH CATALOG NUMBER R-3078-6B (OR APPROVED EQUAL).
 - HORIZONTAL BARS ARE APPROXIMATELY 12-IN CENTERS. WHEN ADDITIONAL BARS ARE REQUIRED DUE TO ADDITIONAL DEPTH, APPROXIMATELY 22.5 LBS OF REINFORCING STEEL IS TO BE ADDED FOR EACH ADDITIONAL SET OF BARS.
 - COST OF 4 X 4 M 13.8# BM SUPPORTS FOR GRATE FRAME SHALL BE CONSIDERED INCIDENTAL AND INCLUDED IN THE BID PRICE FOR THE STRUCTURE(S).

01 DESIGN NO. 2 CAST-IRON CURB INLET (CIC)
SCALE: AS SHOWN



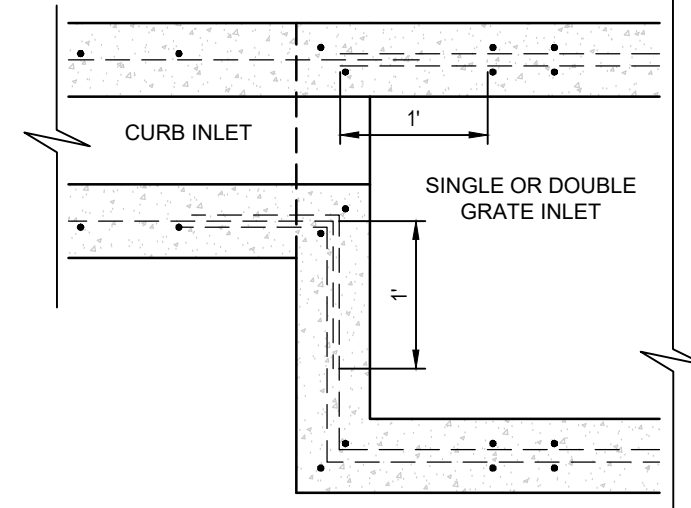
- GENERAL NOTES:**
- TRENCH WIDTH FOR RCP INSTALLATIONS TO BE PER TABLE.
 - RCP UTILIZED IN PROJECT SHALL MEET THE REQUIREMENTS OF ASTM C-76 CLASS III WALL B OR WALL C. WALL B PIPE SHALL BE USED FOR ALL PIPE SIZES LESS THAN 24-IN WHERE DEPTH IS LESS THAN 16-FT. WALL C SHALL BE USED FOR PIPE SIZES 24-IN AND LARGER AT ANY DEPTH AND FOR ALL PIPE SIZES WHERE DEPTH IS GREATER THAN 16-FT.
 - RCP INSTALLATIONS IN PAVED AREAS
 - FOUNDATION: COMPACT TRENCH BOTTOM TO 95% DENSITY (STANDARD PROCTOR ASTM-698), AT +/- 3% OPTIMUM MOISTURE CONTENT.
 - BEDDING: ASTM C-33 NO. 67 CRUSHED ROCK, COMPACT TO 95% DENSITY (STANDARD PROCTOR ASTM-698), AT +/- 3% OPTIMUM MOISTURE CONTENT.
 - HAUNCH ZONE: ASTM C-33 NO. 67 CRUSHED ROCK, ASTM C-33 NO. 67 CRUSHED ROCK, COMPACT TO 95% DENSITY (STANDARD PROCTOR ASTM-698), AT +/- 3% OPTIMUM MOISTURE CONTENT.
 - INITIAL BACKFILL: ASTM C-33 NO. 67 CRUSHED ROCK, COMPACT TO 95% DENSITY (STANDARD PROCTOR ASTM-698), AT +/- 3% OPTIMUM MOISTURE CONTENT.
 - FINAL BACKFILL: ASTM C-33 NO. 67 CRUSHED ROCK, COMPACT TO 95% DENSITY (STANDARD PROCTOR ASTM-698), AT +/- 3% OPTIMUM MOISTURE CONTENT.
 - TRENCHES IN NON-PAVED AREAS
 - BEDDING: ASTM C-33 NO. 67 CRUSHED ROCK, COMPACT TO 95% DENSITY (STANDARD PROCTOR ASTM-698), AT +/- 3% OPTIMUM MOISTURE CONTENT.
 - HAUNCH ZONE: ASTM C-33 NO. 67 CRUSHED ROCK, COMPACT TO 95% DENSITY (STANDARD PROCTOR ASTM-698), AT +/- 3% OPTIMUM MOISTURE CONTENT.
 - INITIAL AND FINAL BACKFILL: BACKFILL SHALL BE LOOSE EARTH, FREE OF CLOS, STONES, ORGANIC MATTER, DEBRIS OR OTHER OBJECTIONABLE MATERIALS. PLACE BACKFILL IN 6 INCH LIFTS AND COMPACT TO A 95% DENSITY (STANDARD PROCTOR ASTM-698), AT +/- 3% OPTIMUM MOISTURE CONTENT. COMPLETE BACKFILL TO FINISHED GRADE. THE TOP 12 INCHES OF MATERIAL SHALL BE OF AS GOOD QUALITY AS THE ORIGINAL TOPSOIL THAT WAS REMOVED.

04 RCP AND RCAP INSTALLATION
SCALE: AS SHOWN

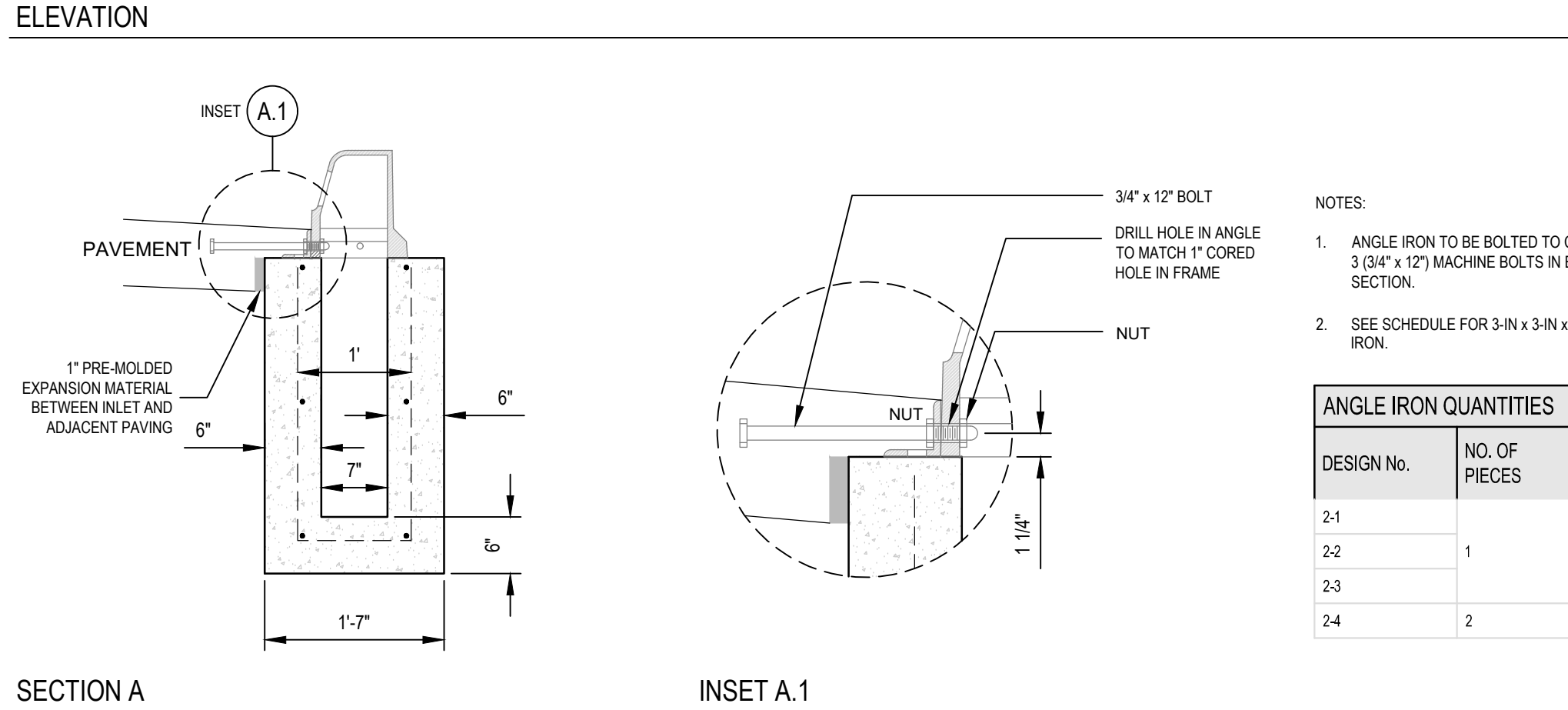


QUANTITIES FOR ADDITIONAL HOODS

NO. OF ADDITIONAL HOODS	CLASS A CONCRETE (C.Y.)	STEEL (LBS)
1	0.20	26
2	0.43	44
3	0.69	62
4	0.95	80



REINFORCING @ ADDITIONAL HOODS



ANGLE IRON QUANTITIES

DESIGN No.	NO. OF PIECES	LENGTH OF 3-IN x 3-IN x 3/4" ANGLE IRON
2-1		5'-1 1/2"
2-2	1	10'-6 1/2"
2-3		15'-10 1/2"
2-4	2	10'-4 1/2"

02 DESIGN NO. 2 COMBINATION INLET - ADDITIONAL HOODS
SCALE: AS SHOWN

01 DESIGN NO. 2 CAST-IRON CURB INLET (CIC)
SCALE: AS SHOWN