

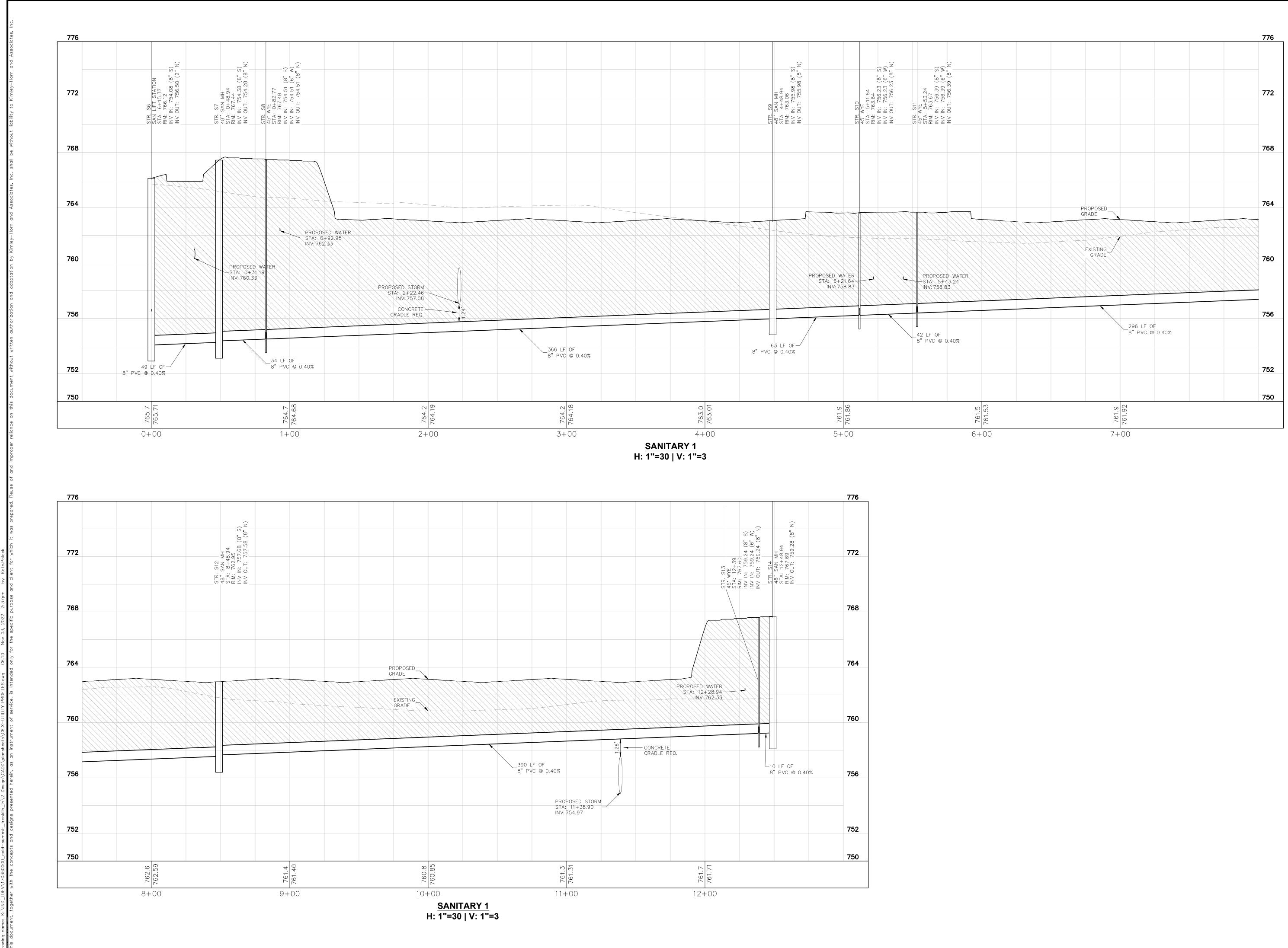
# PROFILE LEGEND

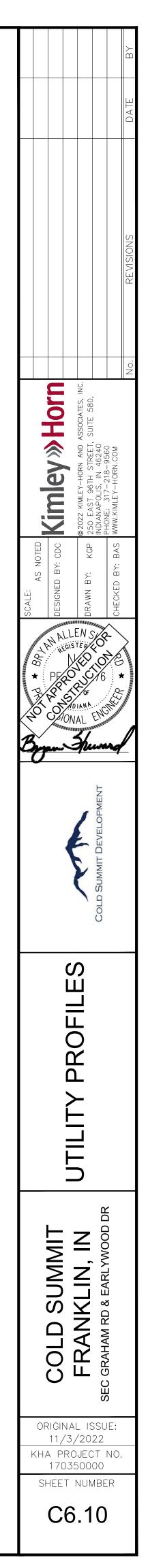


FULL DEPTH GRANULAR BACKFILL REQUIRED (PROFILE VIEW)

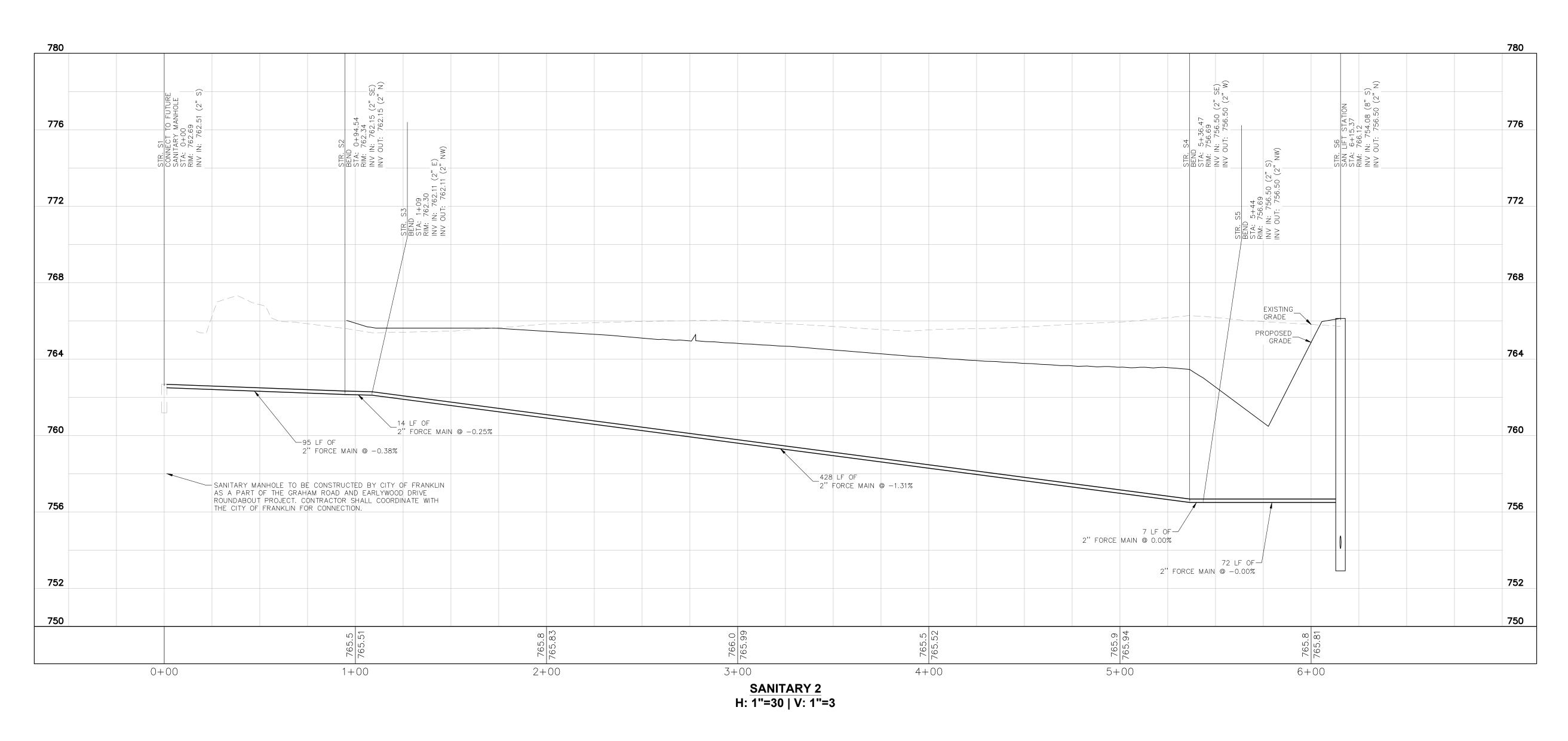
EXISTING PROFILE GRADE PROPOSED PROFILE GRADE

DATE BY
REVISIONS
OTED Kimley » Horn CDC Kimley » Horn ©2022 kimley - Horn and associates, INC. KGP 250 EAST 96TH STREET, SUITE 580, INDIANAPOLIS, IN 46240 PHONE: 317–218–9560 BAS WWW.KIMLEY-HORN.COM No.
CHECKED BY: CDC CHECKED BY: CDC BRAWN BY: KGP CHECKED BY: CDC CHECKED BY: CDC CHECKED BY: BAS
COLD SUMMIT DEVELOPMENT
UTILITY PROFILES
COLD SUMMIT FRANKLIN, IN SEC GRAHAM RD & EARLYWOOD DR

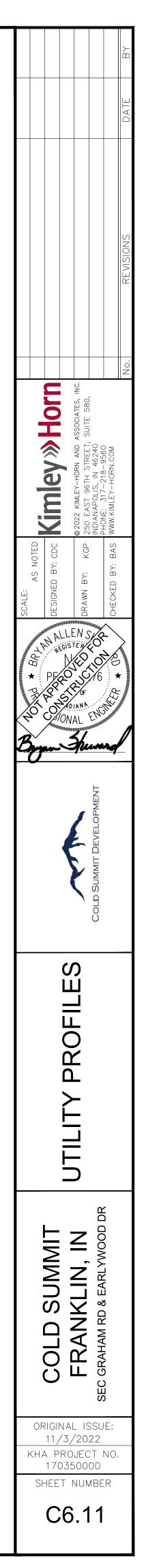




			NOT	STORM SEWER STRU E: DEBRIS GUARD REQU							
			ALL CASTINGS	SHALL BE LABELED "DU	MP NO W	ASTE-DRA	AINS TO W.	ATERWAY"			
STR. NO:	STRUCTURE/CASTING TYPE NOTE: NEENAH CASTINGS	T.O.R.	INCOMING PIPE DATA (DIRECTION) [FROM STR]	OUTGOING PIPE DATA (DIRECTION) [TO STR]		OUTGOING PIPE SIZE	OUTGOING GRADE (%)	CONNECT TO STRUCTURE	REMARKS	NORTHING	EASTING
S1	CONNECT TO FUTURE SANITARY MANHOLE	762.69	2" FORCE MAIN 762.51 (S) [S2]							198571.23	813298.26
S2	BEND	???	2" FORCE MAIN 762.15 (SE) [S3]	2" FORCE MAIN 762.15 (N) [S1]	95'	2"	-0.38%	S1		198476.71	813300.46
S3	BEND	???	2" FORCE MAIN 762.11 (E) [S4]	2" FORCE MAIN 762.11 (NW) [S2]	14'	2"	-0.25%	S2		198466.94	813310.69
S4	BEND	???	2" FORCE MAIN 756.50 (SE) [S5]	2" FORCE MAIN 756.50 (W) [S3]	428'	2"	-1.31%	S3		198476.89	813738.36
S5	BEND	???	2" FORCE MAIN 756.50 (S) [S6]	2" FORCE MAIN 756.50 (NW) [S4]	7'	2"	0.00%	S4		198472.01	813743.47
S6	SAN LIFT STATION	766.12	8" PVC 754.08 (S) [S7]	2" FORCE MAIN 756.50 (N) [S5]	72'	2"	-0.00%	S5		198400.18	813743.45
S7	48" SAN MH	767.44	8" PVC 754.38 (S) [S8]	8" PVC 754.28 (N) [S6]	49'	8"	0.40%	S6		198353.62	813728.39
S8	45° WYE	767.48	8" PVC 754.51 (S) [S9] 6" PVC 754.51 (W) [S8A]	8" PVC 754.51 (N) [S7]	34'	8"	0.40%	S7		198319.79	813728.34
S8A	6" SAN CO	768.27		6"PVC 760.00 (E) [S8]	20'	6"	27.44%	S8		198319.81	813708.34
S9	48" SAN MH	763.06	8" PVC 755.98 (S) [S10]	8" PVC 755.98 (N) [S8]	366'	8"	0.40%	S8		197953.62	813727.85
S10	45° WYE	763.64	8" PVC 756.23 (S) [S11] 6" PVC 756.23 (W) [S10A]	8" PVC 756.23 (N) [S9]	63'	8"	0.40%	S9		197890.92	813727.77
S10A	6" SAN CO	763.92		6" PVC 760.00 (E) [S10]	20'	6"	18.85%	S10		197890.95	813707.75
S11	45° WYE	763.67	8" PVC 756.39 (S) [S12] 6" PVC 756.39 (W) [S11A]	8" PVC 756.39 (N) [S10]	42'	8"	0.40%	S10		197849.32	813727.71
S11A	6" SAN CO	764.20		6" PVC 760.00 (E) [S11]	19'	6"	18.97%	S11		197849.34	813708.70
S12	48" SAN MH	762.95	8" PVC 757.68 (S) [S13]	8" PVC 757.58 (N) [S11]	296'	8"	0.40%	S11		197553.62	813727.31
S13	45° WYE	767.60	8" PVC 759.24 (S) [S14] 6" PVC 759.24 (W) [S13A]	8" PVC 759.24 (N) [S12]	390'	8"	0.40%	S12		197163.62	813726.79
S13A	6" SAN CO	768.25		6" PVC 760.00 (E) [S13]	19'	6"	4.02%	S13		197163.65	813707.79
S14	48" SAN MH	767.69		8" PVC 759.28 (N) [S13]	10'	8"	0.40%	S13		197153.62	813726.78



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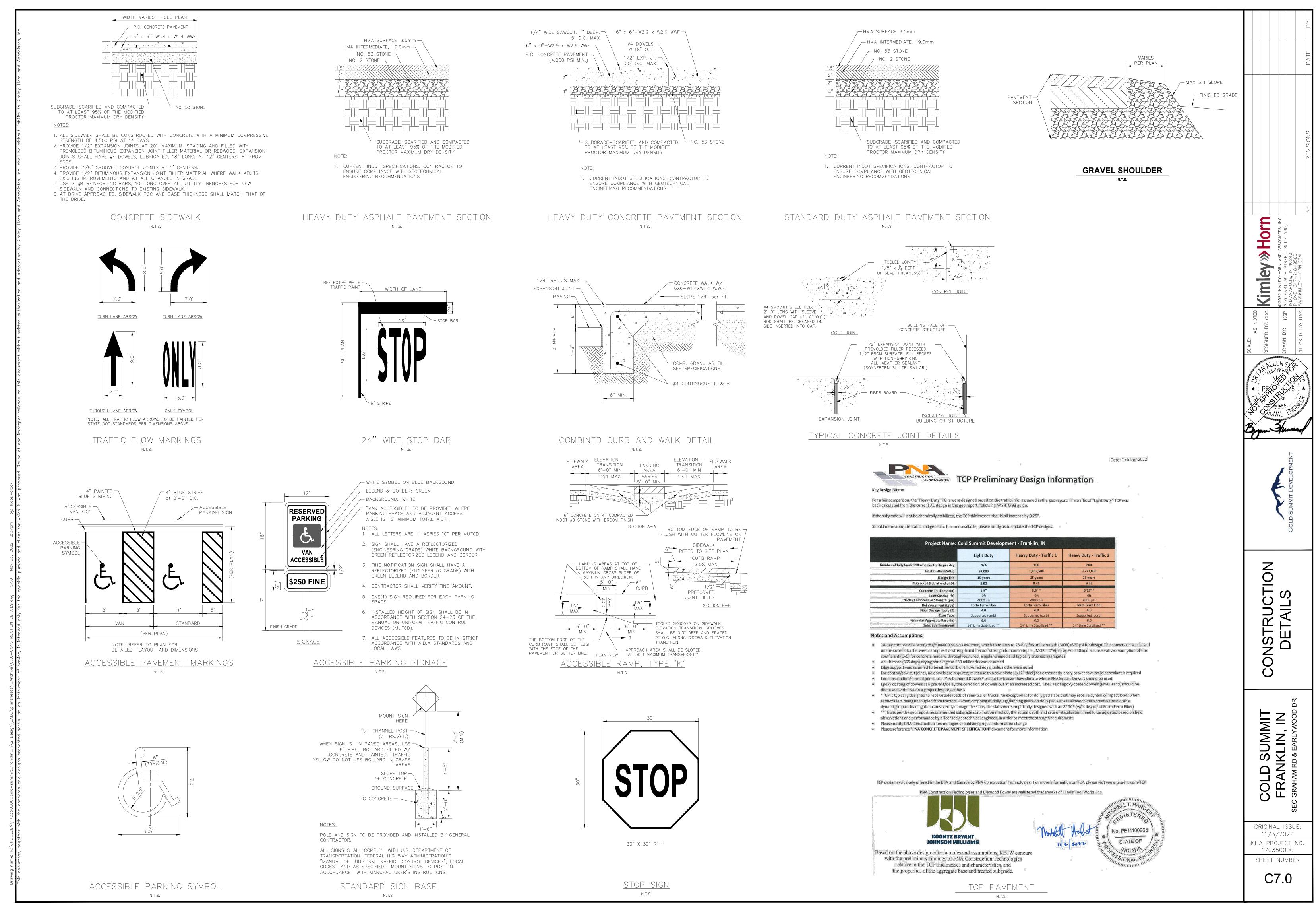


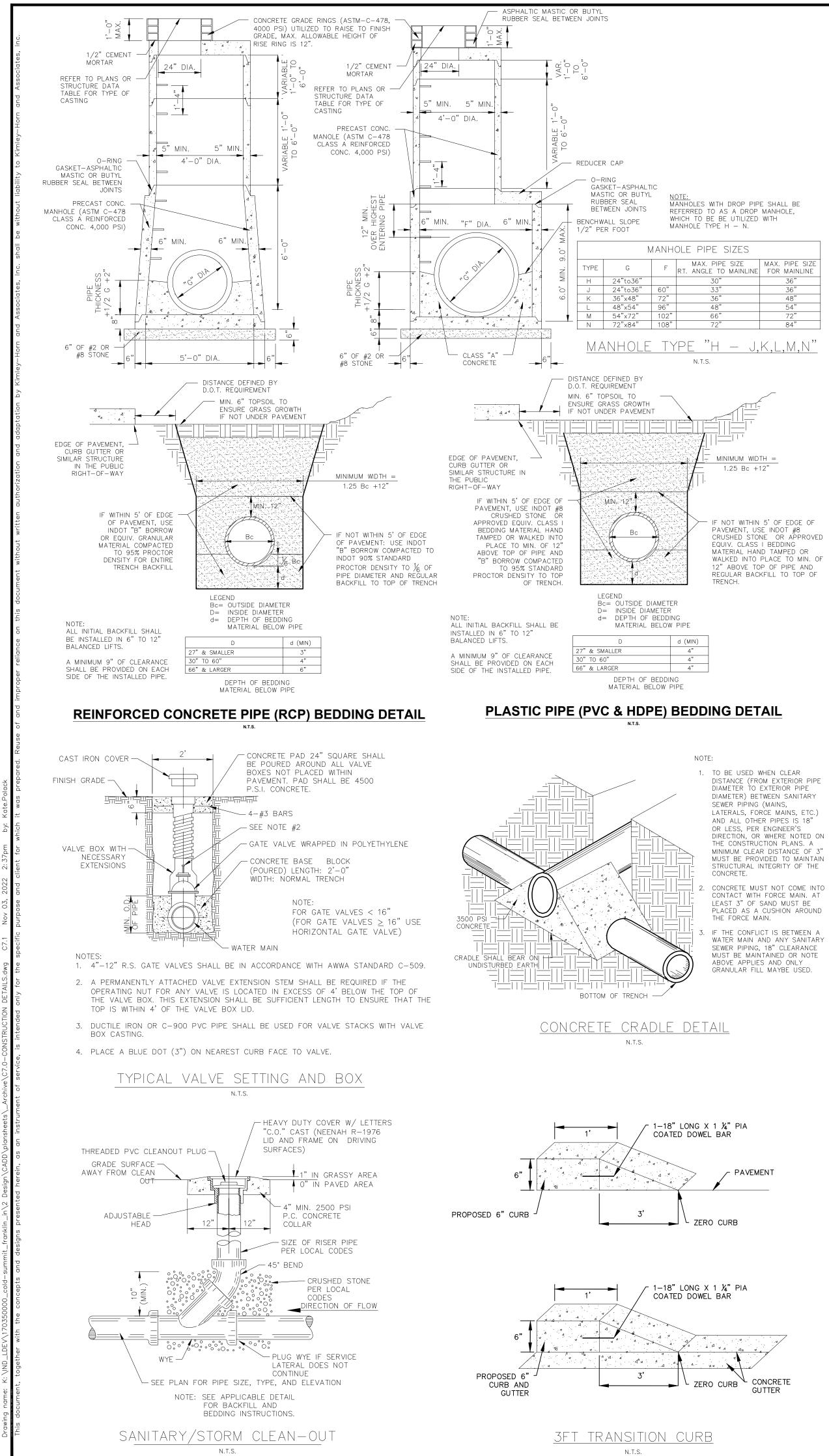
				STORM SEWER STRUC E: DEBRIS GUARD REQUIF SHALL BE LABELED "DUM	red on a	LL END S	ECTIONS	ATERWAY"			
STR. NO:	STRUCTURE/CASTING TYPE NOTE: NEENAH CASTINGS	T.O.R.	INCOMING PIPE DATA (DIRECTION) [FROM STR]	OUTGOING PIPE DATA (DIRECTION) [TO STR]			OUTGOING GRADE (%)	CONNECT TO STRUCTURE	REMARKS NORTHI	NG EAST	TING
C01	STORM CLEANOUT	756.00	8" PERF HDPE 754.33 (N) [CO2]	8" PERF HDPE 754.33 (S) [D29]	110'	8"	0.00%	D29	197359.	82 81393	39.18
C02	STORM CLEANOUT	756.00	8" PERF HDPE 754.33 (N) [CO3]	8" PERF HDPE 754.33 (S) [CO1]	100'	8"	0.00%	CO1	197459.1	82 81393	39.31
CO3	STORM CLEANOUT	756.00	8" PERF HDPE 754.33 (N) [CO4]	8" PERF HDPE 754.33 (S) [CO2]	100'	8"	0.00%	CO2	197559.1	82 81393	39.44
CO4	STORM CLEANOUT	756.00	8" PERF HDPE 754.33 (N) [CO5]	8" PERF HDPE 754.33 (S) [CO3]	100'	8"	0.00%	CO3	197659.1	82 81393	39.58
C05	STORM CLEANOUT	756.00	8" PERF HDPE 754.33 (N) [CO6]	8" PERF HDPE 754.33 (S) [CO4]	100'	8"	0.00%	CO4	197759.1	82 81393	39.71
C06	STORM CLEANOUT	756.00	8" HDPE 754.33 (N) [CO8]	8" PERF HDPE 754.33 (S) [CO5]	100'	8"	0.00%	C05	197859.	82 81393	39.85
C08	STORM CLEANOUT	756.00	8" PERF HDPE 754.33 (N) [CO9]	8" HDPE 754.33 (S) [CO6]	107'	8"	0.00%	CO6	197966.	82 81393	39.99
CO9	STORM CLEANOUT	756.00	8" PERF HDPE 754.33 (N) [CO10]	8" PERF HDPE 754.33 (S) [CO8]	61'	8"	0.00%	C08	198028.	20 81394	40.07
C010	STORM CLEANOUT	756.00	8" PERF HDPE 754.33 (N) [CO11]	8" PERF HDPE 754.33 (S) [CO9]	100'	8"	0.00%	CO9	198128.2	20 81394	40.21
C011	STORM CLEANOUT	756.00	8" PERF HDPE 754.33 (N) [CO12]	8" PERF HDPE 754.33 (S) [C010]	85'	8"	0.00%	C010	198213.	17 81394	40.32
C012	STORM CLEANOUT	756.00	8" PERF HDPE 754.33 (NW) [CO13]	8" PERF HDPE 754.33 (S) [CO11]	107'	8"	0.00%	CO11	198312.5	93 81390.	02.67
C013	STORM CLEANOUT	756.00	8" PERF HDPE 754.33 (NW) [CO14]	8" PERF HDPE 754.33 (SE) [C012]	72'	8"	0.00%	C012	198362.	19 81385	50.07
C014	STORM CLEANOUT	756.00		8" PERF HDPE 754.33 (SE) [C013]	72'	8"	0.00%	C013	198411.4	45 81379	97.47
C015	STORM CLEANOUT	761.17	8" PERF HDPE 759.45 (N) [CO16]	8" PERF HDPE 759.45 (S) [D27]	82'	8"	0.29%	D27	197055.:		
C016	STORM CLEANOUT	761.40	8" PERF HDPE 759.68 (N) [C017]	8" PERF HDPE 759.68 (S) [C015]	100'	8"	0.23%	C015	197155.5		
C017	STORM CLEANOUT	761.64	8" PERF HDPE 759.92 (N) [C018]	8" PERF HDPE 759.92 (S) [C016]	100'	8"	0.23%	CO16	197255.	54 81329	93.91
C018	STORM CLEANOUT	761.87		8" PERF HDPE 760.15 (S) [C017]	100'	8"	0.23%	C017	197355		
CO19	STORM CLEANOUT	762.11	8" PERF HDPE 760.39 (N) [CO20]	8" PERF HDPE 760.39 (S) [C018]	100'	8"	0.23%	C018	197455.		
CO20	STORM CLEANOUT	762.34	8" PERF HDPE 760.62 (N) [CO21]	8" PERF HDPE 760.62 (S) [C019]	100'	8"	0.23%	CO19	197555.		
CO21	STORM CLEANOUT	762.58	8" PERF HDPE 760.86 (N) [CO22]	8" PERF HDPE 760.86 (S) [CO20]	100'	8"	0.23%	C020	197655.		
C022	STORM CLEANOUT	762.81	8" PERF HDPE 761.09 (N) [CO23]	8" PERF HDPE 761.09 (S) [CO21]	100'	8"	0.23%	CO21	197755.		
CO23	STORM CLEANOUT	763.05	8" PERF HDPE 761.33 (N) [CO24]	8" PERF HDPE 761.33 (S) [CO22]	100'	8"	0.23%	C022	197855.		
C024	STORM CLEANOUT	763.28	8" PERF HDPE 761.56 (N) [C025]	8" PERF HDPE 761.56 (S) [CO23]	100'	8"	0.23%	C023	197955.		
CO25	STORM CLEANOUT	763.52	8" PERF HDPE 761.80 (N) [CO26]	8" PERF HDPE 761.80 (S) [C024]	100'	8"	0.23%	C024	198055.		
C026	STORM CLEANOUT	763.75	8" PERF HDPE 762.03 (N) [C027]	8" PERF HDPE 762.03 (S) [C025]	100'	8"	0.23%	C025	198155.		
C027	STORM CLEANOUT	763.99	8" PERF HDPE 762.27 (N) [CO28]	8" PERF HDPE 762.27 (S) [CO26]	100'	8"	0.23%	C026	198255.		
C028	STORM CLEANOUT	764.22	36" HDPE 754.00 (NW) [D2]	8" PERF HDPE 762.50 (S) [CO27]	100'	8"	0.23%	C027	198355 197088.		
D1			24" HDPE 755.40 (N) [D3]								
D2	TYPE "C" MH - R-3455-C	762.58	30" HDPE 754.90 (W) [D9]	36" HDPE 754.90 (SE) [D1]	200'	36"	0.45%	D1	197263.	64 81373	39.92
D3	TYPE "C" MH - R-3455-C	762.58	24" HDPE 755.90 (N) [D4]	24" HDPE 755.90 (S) [D2]	100'	24"	0.50%	D2	197363.	64 81374	40.06
D4	TYPE "C" MH - R-3455-C	762.58	24" HDPE 756.40 (N) [D5]	24" HDPE 756.40 (S) [D3]	100'	24"	0.50%	D3	197463.	64 81374	40.19
D5	TYPE "C" MH - R-3455-C	762.58	18" HDPE 756.90 (N) [D6]	24" HDPE 756.90 (S) [D4]	100'	24"	0.50%	D4	197563.	64 81374	40.33
D6	TYPE "C" MH - R-3455-C	762.58	15" HDPE 757.40 (N) [D7]	18" HDPE 757.40 (S) [D5]	100'	18"	0.50%	D5	197663.	64 81374	40.46
D7	TYPE "C" MH - R-3455-C	762.58	12" HDPE 757.90 (N) [D8]	15" HDPE 757.90 (S) [D6]	100'	15"	0.50%	D6	197763.	64 81374	40.60
D8	TYPE "C" INLET - R-3287-15	762.82		12" HDPE 758.28 (S) [D7]	76'	12"	0.50%	D7	197840.	08 81374	40.70
D9	TYPE "C" MH - R-1772	763.93	30" HDPE 755.33 (N) [D10]	30" HDPE 755.33 (E) [D2]	85'	30"	0.50%	D2	197263.	75 81365	54.92
D10	TYPE "C" MH - R-1772	763.93	24" HDPE 756.20 (N) [D11]	30" HDPE 756.20 (S) [D9]	175'	30"	0.50%	D9	197438.	75 81365	55.16
D11	TYPE "C" MH - R-1772	763.93	24" HDPE 757.08 (N) [D12]	24" HDPE 757.08 (S) [D10]	175'	24"	0.50%	D10	197613.		
D12	TYPE "C" MH - R-1772	763.93		24" HDPE 757.96 (S) [D11]	176'	24"	0.50%	D11	197790		
D13	FLARED END SECTION		36" HDPE 756.00 (W) [D14]						198179.8	85 81391	13.16
D14	TYPE "C" MH - R-3455-C	762.58	24" HDPE 757.52 (S) [D15] 30" HDPE 757.02 (W) [D18]	36" HDPE 756.52 (E) [D13]	172'	36"	0.30%	D13	198180.0	08 81374	41.16
D15	TYPE "C" MH - R-3455-C	762.58	15" HDPE 757.82 (S) [D16]	24" HDPE 757.82 (N) [D14]	100'	24"	0.30%	D14	198080.	08 81374	41.02
D16	TYPE "C" MH - R-3455-C	762.58	12" HDPE 758.12 (S) [D17]	15" HDPE 758.12 (N) [D15]	100'	15"	0.30%	D15	197980.	08 81374	40.89
D17	TYPE "C" INLET - R-3287-15	762.82		12" HDPE 758.36 (N) [D16]	80'	12"	0.30%	D16	197900.	08 81374	40.78
D18	TYPE "C" MH - R-1772	763.93	24" HDPE 757.44 (S) [D19] 18" HDPE 758.44 (N) [D20]	30" HDPE 757.44 (E) [D14]	85'	30"	0.50%	D14	198180.2	20 81365	56.16
D19	TYPE "C" MH - R-1772	763.93		24" HDPE 758.57 (N) [D18]	225'	24"	0.50%	D18	197954.	88 81365	55.85
D20	TYPE "C" MH - R-1772	763.93		18" HDPE 759.15 (S) [D18]	71'	18"	1.00%	D18	198251.2	22 81365	56.25
D21	FLARED END SECTION		36" HDPE 756.00 (N) [D22]						197869.	.81 81394	44.61
D22	FLARED END SECTION			36" HDPE 756.00 (S) [D21]	92'	36"	-0.00%	D21	197961.	81 81394	44.73
D23	FLARED END SECTION		36" HDPE 756.00 (N) [D24]						197869.1	82 81393	35.11
D24	FLARED END SECTION			36" HDPE 756.00 (S) [D23]	92'	36"	0.00%	D23	197961.8	82 81393	35.23
D25	TYPE "C" MH - R-3455-C	759.00		36" HDPE 754.00 (S) [D26]	53'	36"	0.17%	D26	196867.	87 81388	84.19
D26	FLARED END SECTION		36"HDPE 753.91 (N) [D25]						196814.	73 81388	85.02
D27	MITERED END SECTION		8" PERF HDPE 759.21 (N) [CO15]						196973	24 81329	93.57
D28	FLARED END SECTION		36" HDPE 754.00 (N) [D29]						197092.	23 81389	94.10
D29	TYPE "C" MH - R-3455-C	759.00	8" PERF HDPE 754.33 (N) [CO1]	36" HDPE 754.20 (S) [D28]	164'	36"	0.12%	D28	197249.	92 81393	39.03

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UTILITY PROFILES	

	SANITARY SEWER STRUCTURE DATA TABLE								
STR. NO:	STRUCTURE/CASTING TYPE NOTE: NEENAH CASTINGS	T.O.R.	INCOMING PIPE DATA (DIRECTION) [FROM STR]	OUTGOING PIPE DATA (DIRECTION) [TO STR]		OUTGOING PIPE SIZE	OUTGOING GRADE (%)	CONNECT TO STRUCTURE	REMARKS
S1	CONNECT TO FUTURE SANITARY MANHOLE	762.69	2" FORCE MAIN 762.51 (S) [S2]						
S2	BEND	762.34	2" FORCE MAIN 762.15 (SE) [S3]	2" FORCE MAIN 762.15 (N) [S1]	95'	2"	-0.38%	S1	
S3	BEND	762.30	2" FORCE MAIN 762.11 (E) [S4]	2" FORCE MAIN 762.11 (NW) [S2]	14'	2"	-0.25%	S2	
S4	BEND	756.69	2" FORCE MAIN 756.50 (SE) [S5]	2" FORCE MAIN 756.50 (W) [S3]	428'	2"	-1.31%	S3	
S5	BEND	756.69	2" FORCE MAIN 756.50 (S) [S6]	2" FORCE MAIN 756.50 (NW) [S4]	7'	2"	0.00%	S4	
S6	SAN LIFT STATION	766.12	8" PVC 754.08 (S) [S7]	2" FORCE MAIN 756.50 (N) [S5]	72'	2"	-0.00%	S5	
S7	48" SAN MH	767.44	8" PVC 754.38 (S) [S8]	8"PVC 754.28 (N) [S6]	49'	8"	0.40%	S6	
S8	45° WYE	767.48	8" PVC 754.51 (S) [S9] 6" PVC 754.51 (W) [S8A]	8" PVC 754.51 (N) [S7]	34'	8"	0.40%	S7	
S8A	6" SAN CO	768.27		6" PVC 760.00 (E) [S8]	20'	6"	27.44%	S8	
S9	48" SAN MH	763.06	8" PVC 755.98 (S) [S10]	8" PVC 755.98 (N) [S8]	366'	8"	0.40%	S8	
S10	45° WYE	763.64	8" PVC 756.23 (S) [S11] 6" PVC 756.23 (W) [S10A]	8" PVC 756.23 (N) [S9]	63'	8"	0.40%	S9	
S10A	6" SAN CO	763.92		6" PVC 760.00 (E) [S10]	20'	6"	18.85%	S10	
S11	45° WYE	763.67	8" PVC 756.39 (S) [S12] 6" PVC 756.39 (W) [S11A]	8" PVC 756.39 (N) [S10]	42'	8"	0.40%	S10	
S11A	6" SAN CO	764.20		6" PVC 760.00 (E) [S11]	19'	6"	18.97%	S11	
S12	48" SAN MH	762.95	8" PVC 757.68 (S) [S13]	8" PVC 757.58 (N) [S11]	296'	8"	0.40%	S11	
S13	45° WYE	767.60	8" PVC 759.24 (S) [S14] 6" PVC 759.24 (W) [S13A]	8" PVC 759.24 (N) [S12]	390'	8"	0.40%	S12	
S13A	6" SAN CO	768.25		6" PVC 760.00 (E) [S13]	19'	6"	4.02%	S13	
S14	48" SAN MH	767.69		8" PVC 759.28 (N) [S13]	10'	8"	0.40%	S13	

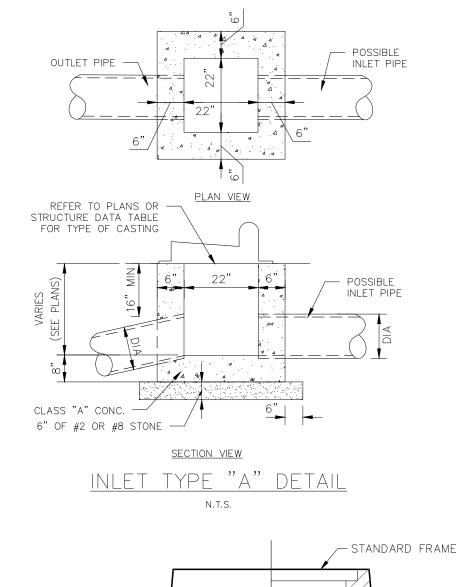
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	REVISIONS
	No.
SCALE: AS NOTED DESIGNED BY: CDC DESIGNED BY: CDC DRAWN BY: KGP DRAWN BY: KGP 250 EAST 96TH STREET, SUITE 580, INDIANAPOLIS, IN 46240 PHONE: 317–218–9560 CHECKED BY: BAS	
* PFOO C/6 * PFOO C/6	
COLD SUMMIT DEVELOPMENT	
COLD	
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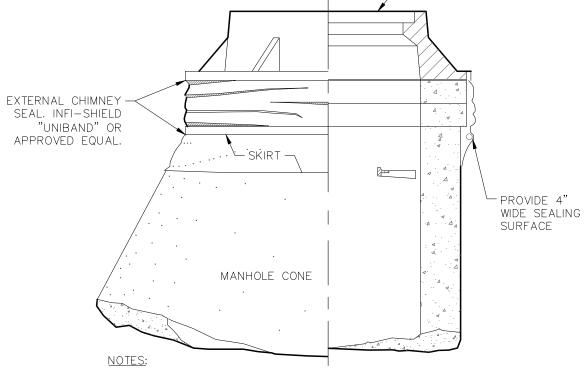


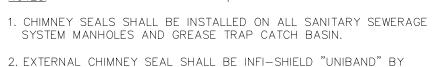


IF NOT WITHIN 5' OF EDGE OF PAVEMENT, USE INDOT #8 CRUSHED STONE OR APPROVED EQUIV. CLASS | BEDDING WALKED INTO PLACE TO MIN. OF 12" ABOVE TOP OF PIPE AND REGULAR BACKFILL TO TOP OF

- THE CONSTRUCTION PLANS. A MINIMUM CLEAR DISTANCE OF 3 MUST BE PROVIDED TO MAINTAIN STRUCTURAL INTEGRITY OF THE
- CONTACT WITH FORCE MAIN. AT PLACED AS A CUSHION AROUND
- WATER MAIN AND ANY SANITARY SEWER PIPING. 18" CLEARANCE MUST BE MAINTAINED OR NOTE

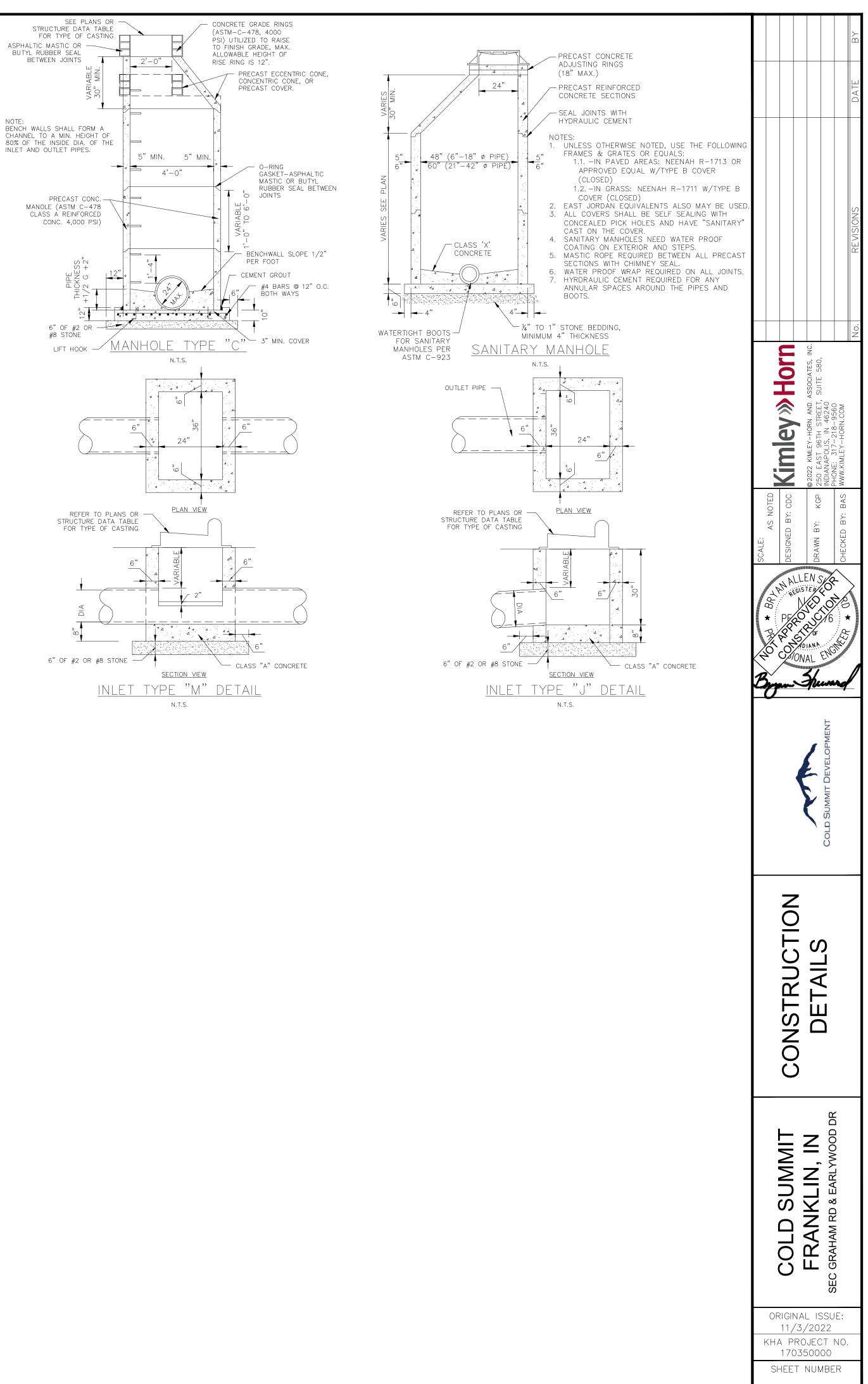


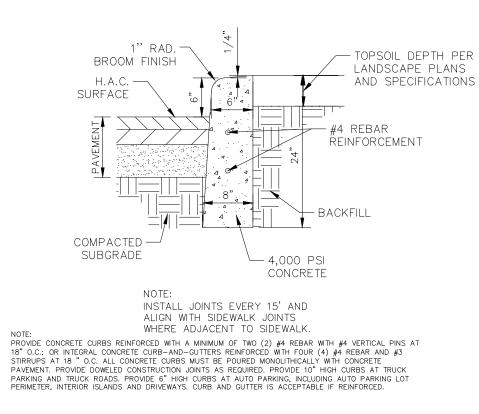




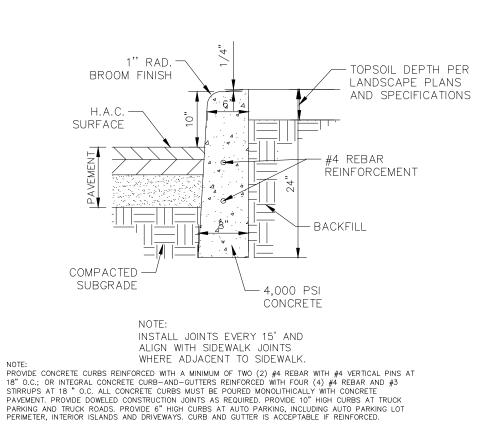
SIMA ENVIRONMENTAL OR APPROVED EQUAL. 3. CHIMNEY SEALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. EXTERNAL CHIMNEY SEAL

N.T.S.

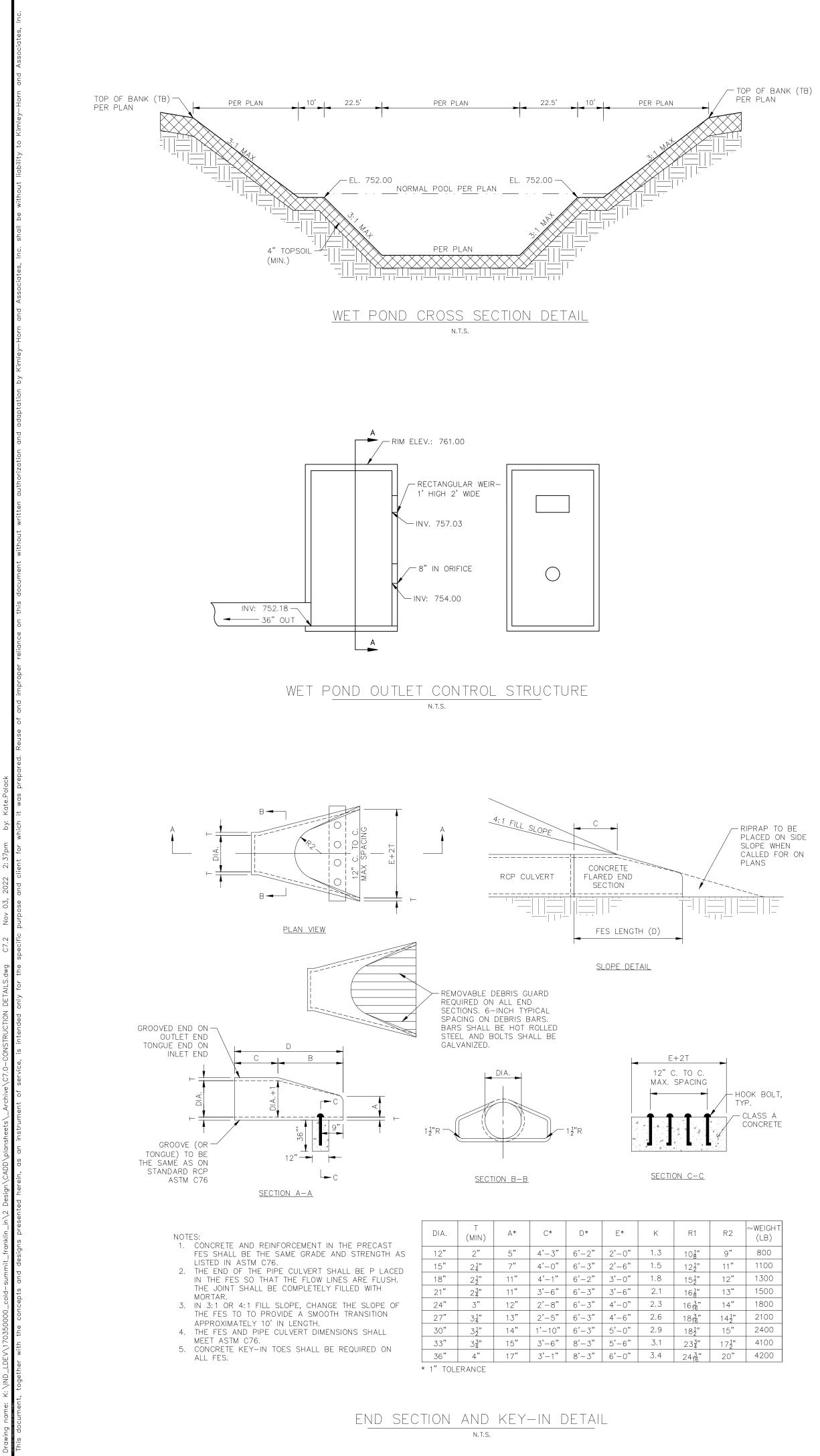


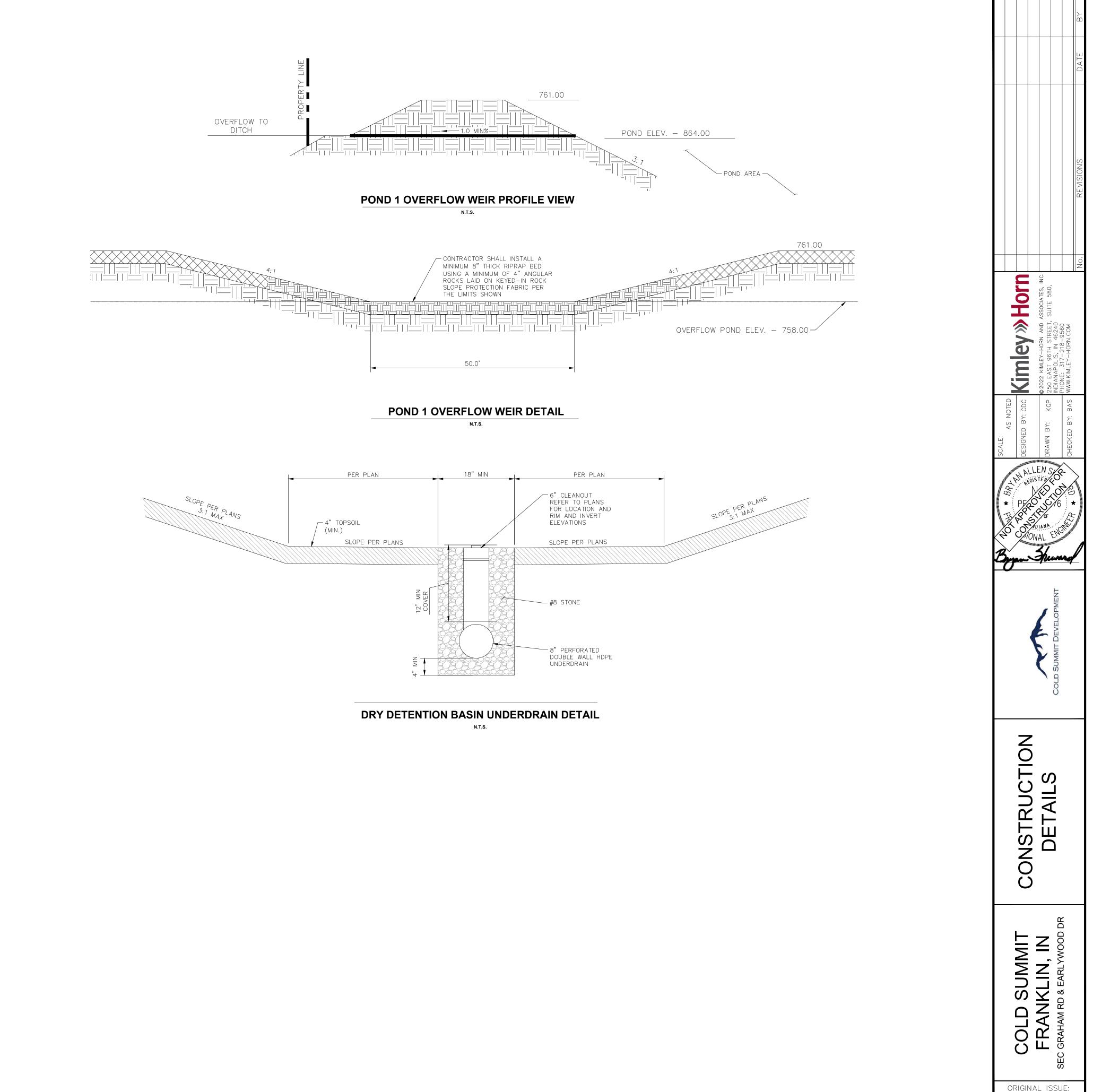


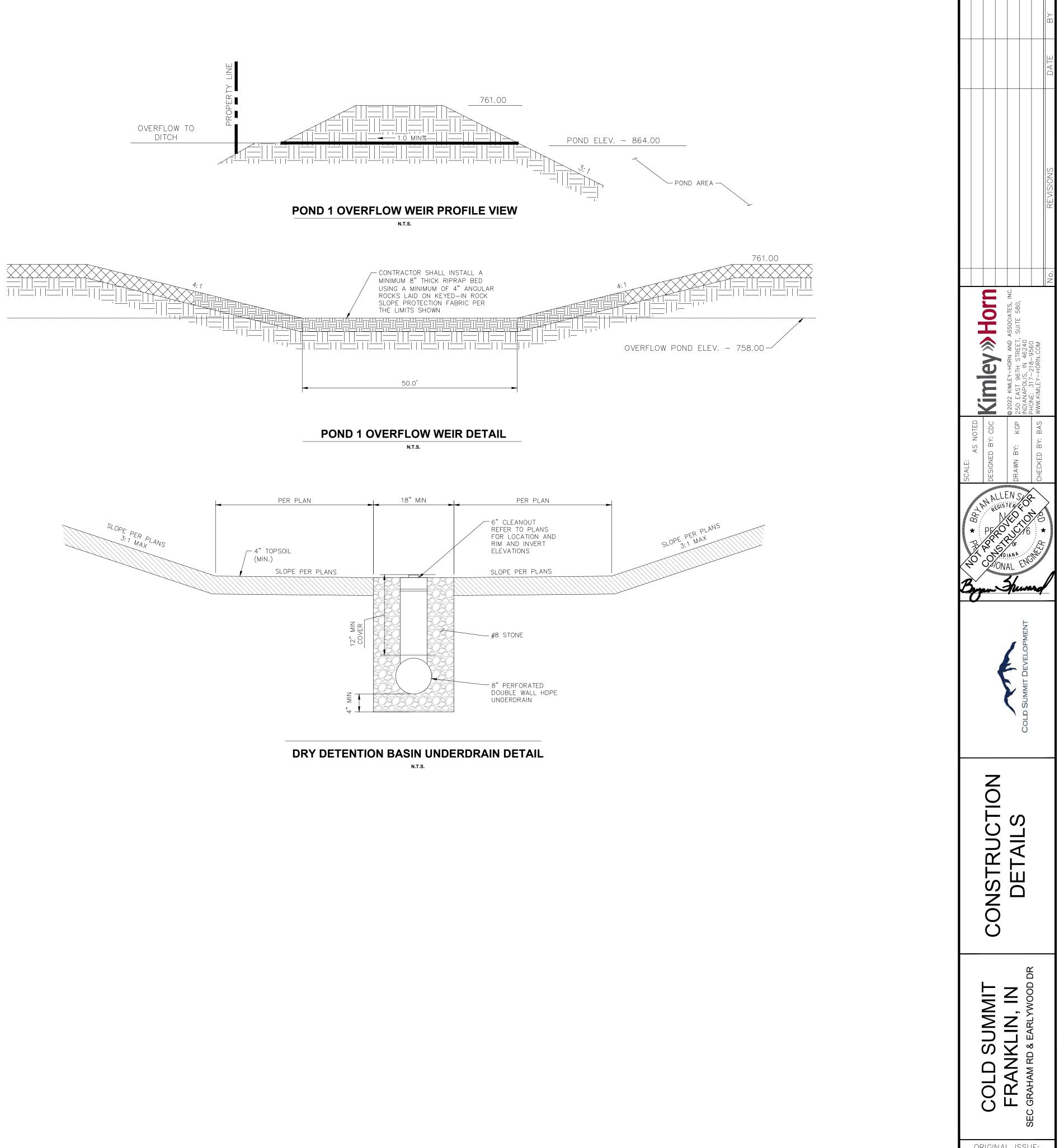


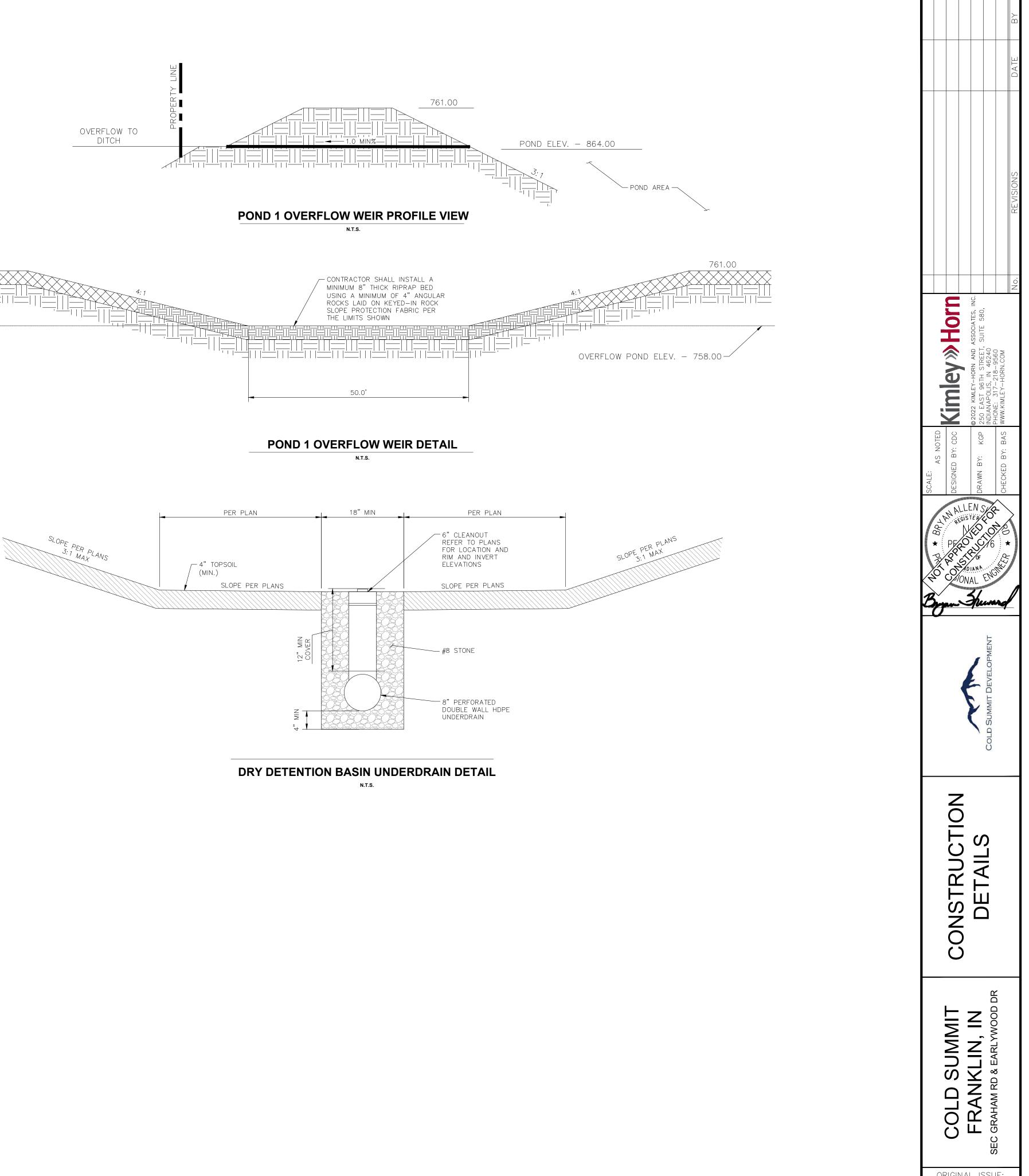


10" CONCRETE CURB N.T.S.





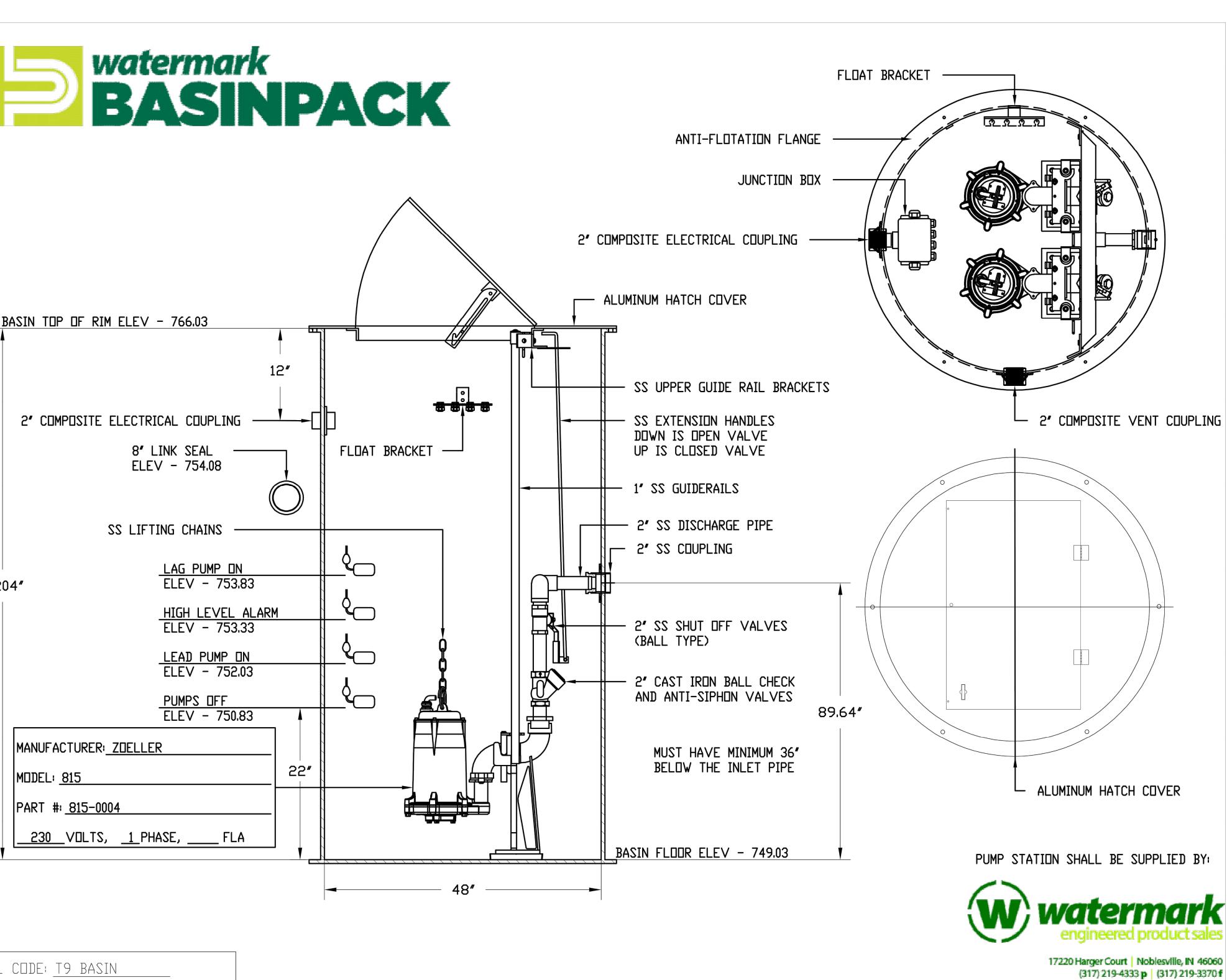




R2	~WEIGHT (LB)
9"	800
11"	1100
12"	1300
13"	1500
14"	1800
14 <u>1</u> "	2100
15"	2400
17 <u>1</u> "	4100
20"	4200

11/3/2022 KHA PROJECT NO. 170350000 SHEET NUMBER



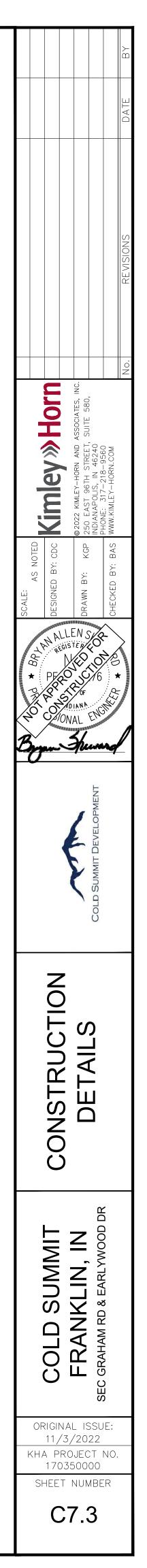


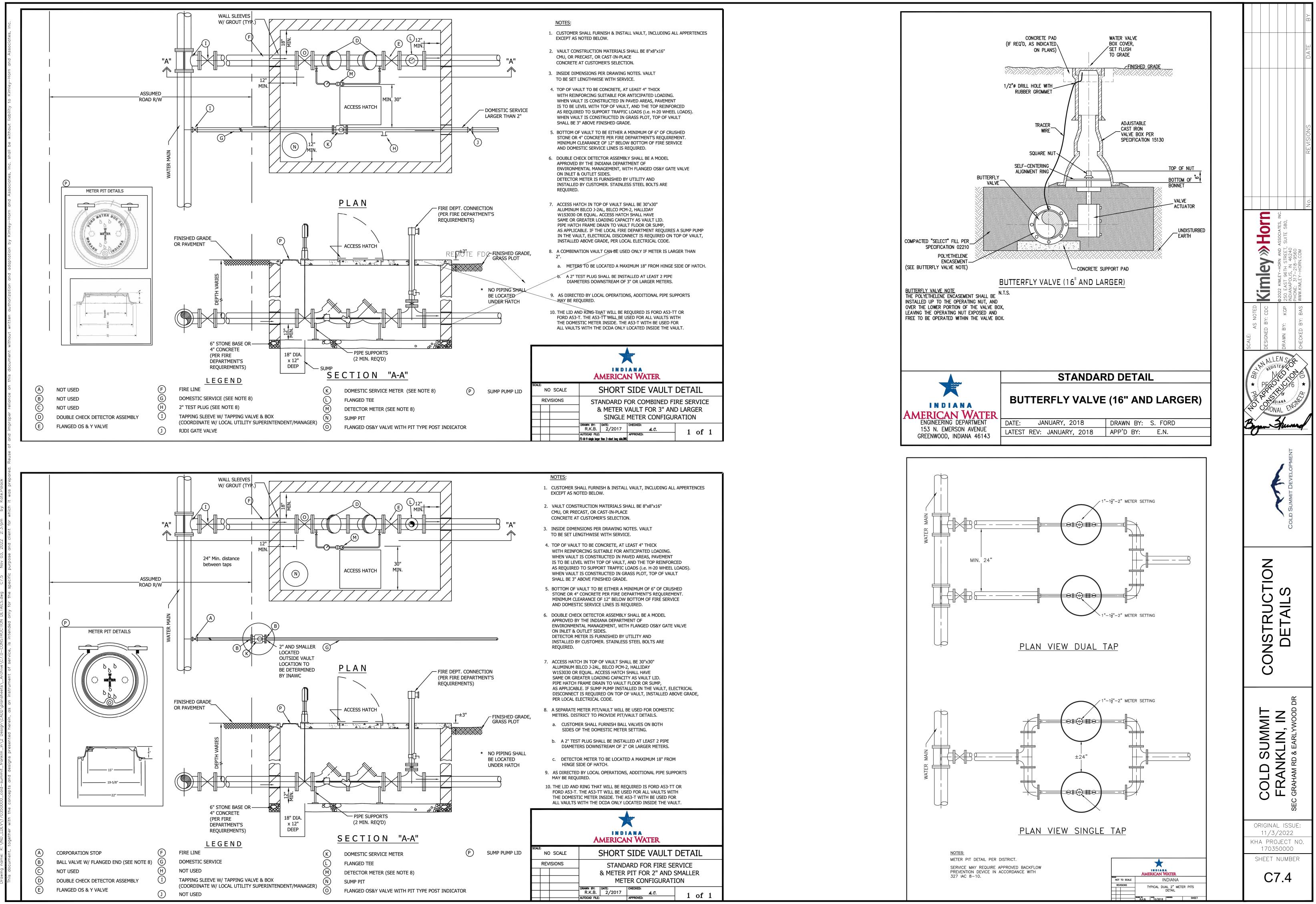
BASIN TOP OF RIM	ELEV - 766.03
	1
2" COMPOSITE E	ELECTRICAL COUPLING
	8″ LINK SEAL ELEV - 754.08
S	SS LIFTING CHAINS
	LAG PUMP ON
204″	ELEV - 753.83
	<u>HIGH LEVEL ALARN</u> ELEV - 753.33
	<u>LEAD PUMP ON</u> ELEV - 752.03
	PUMPS OFF
	ELEV - 750.83
MANUFACTURER:_	ZOELLER
MDDEL: <u>815</u>	
PART #: 815-000	)4
<u>230</u> VOLTS,	<u>    1   </u> PHASE,

MODEL CODE: <u>T9 BASIN</u>

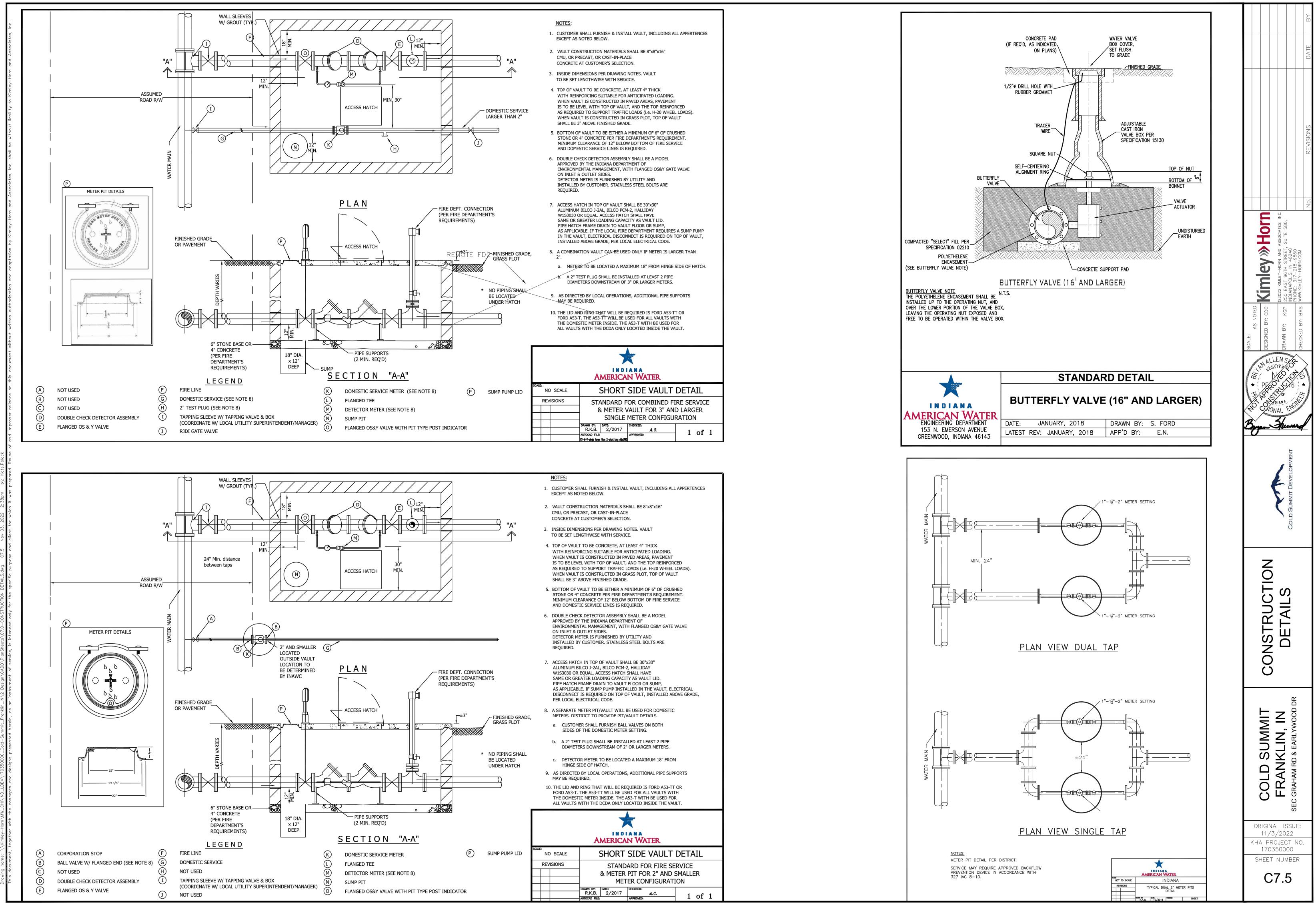
LIFT STATION n.t.s.

17220 Harger Court | Noblesville, IN 46060 (317) 219-4333 p | (317) 219-3370 f www.WatermarkEPS.com

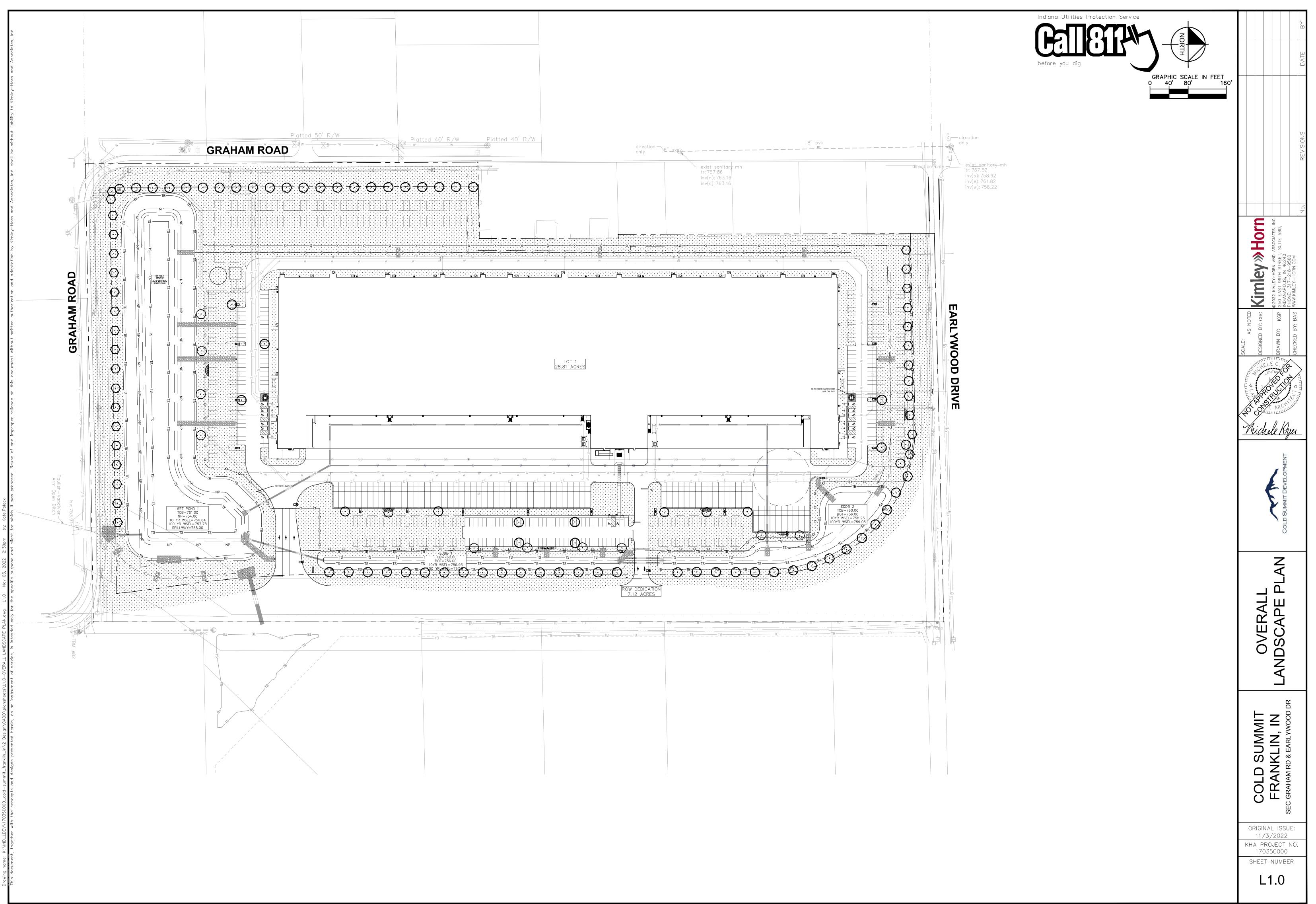




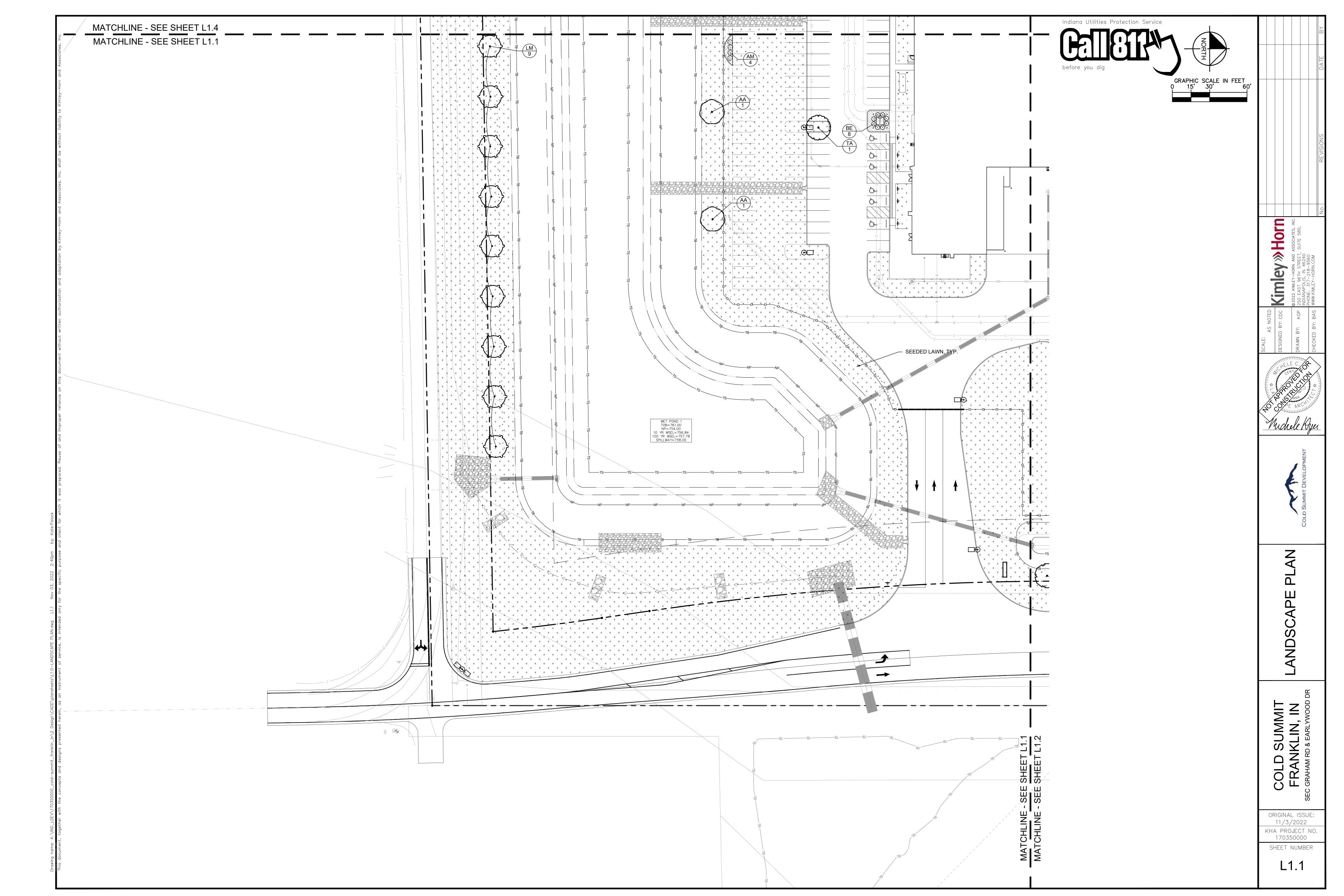
	NOTES:
	1. CUSTOMER SHALL FURNISH & INSTALL VAULT, INCLUDING ALL APPERTENCES EXCEPT AS NOTED BELOW.
	2. VAULT CONSTRUCTION MATERIALS SHALL BE 8"x8"x16" CMU, OR PRECAST, OR CAST-IN-PLACE CONCRETE AT CUSTOMER'S SELECTION.
"A" ↑	3. INSIDE DIMENSIONS PER DRAWING NOTES. VAULT TO BE SET LENGTHWISE WITH SERVICE.
	4. TOP OF VAULT TO BE CONCRETE, AT LEAST 4" THICK WITH REINFORCING SUITABLE FOR ANTICIPATED LOADING. WHEN VAULT IS CONSTRUCTED IN PAVED AREAS, PAVEMENT IS TO BE LEVEL WITH TOP OF VAULT, AND THE TOP REINFORCED AS REQUIRED TO SUPPORT TRAFFIC LOADS (i.e. H-20 WHEEL LOADS). WHEN VAULT IS CONSTRUCTED IN GRASS PLOT, TOP OF VAULT SHALL BE 3" ABOVE FINISHED GRADE.
	<ol> <li>BOTTOM OF VAULT TO BE EITHER A MINIMUM OF 6" OF CRUSHED STONE OR 4" CONCRETE PER FIRE DEPARTMENT'S REQUIREMENT. MINIMUM CLEARANCE OF 12" BELOW BOTTOM OF FIRE SERVICE AND DOMESTIC SERVICE LINES IS REQUIRED.</li> </ol>
	<ol> <li>DOUBLE CHECK DETECTOR ASSEMBLY SHALL BE A MODEL APPROVED BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, WITH FLANGED OS&amp;Y GATE VALVE ON INLET &amp; OUTLET SIDES. DETECTOR METER IS FURNISHED BY UTILITY AND INSTALLED BY CUSTOMER. STAINLESS STEEL BOLTS ARE REQUIRED.</li> </ol>
FIRE DEPT. CONNECTION (PER FIRE DEPARTMENT'S REQUIREMENTS)	7. ACCESS HATCH IN TOP OF VAULT SHALL BE 30"x30" ALUMINUM BILCO J-2AL, BILCO PCM-2, HALLIDAY W1S3030 OR EQUAL. ACCESS HATCH SHALL HAVE SAME OR GREATER LOADING CAPACITY AS VAULT LID. PIPE HATCH FRAME DRAIN TO VAULT FLOOR OR SUMP, AS APPLICABLE. IF SUMP PUMP INSTALLED IN THE VAULT, ELECTRICAL DISCONNECT IS REQUIRED ON TOP OF VAULT, INSTALLED ABOVE GRADE, PER LOCAL ELECTRICAL CODE.
	8. A SEPARATE METER PIT/VAULT WILL BE USED FOR DOMESTIC METERS. DISTRICT TO PROVIDE PIT/VAULT DETAILS.
GRASS PLOT	a. CUSTOMER SHALL FURNISH BALL VALVES ON BOTH SIDES OF THE DOMESTIC METER SETTING.
* NO PIPING SHALL	b. A 2" TEST PLUG SHALL BE INSTALLED AT LEAST 2 PIPE DIAMETERS DOWNSTREAM OF 2" OR LARGER METERS.
BE LOCATED UNDER HATCH	c. DETECTOR METER TO BE LOCATED A MAXIMUM 18" FROM HINGE SIDE OF HATCH.
	<ol> <li>AS DIRECTED BY LOCAL OPERATIONS, ADDITIONAL PIPE SUPPORTS MAY BE REQUIRED.</li> </ol>
	10. THE LID AND RING THAT WILL BE REQUIRED IS FORD A53-TT OR FORD A53-T. THE A53-TT WILL BE USED FOR ALL VAULTS WITH THE DOMESTIC METER INSIDE. THE A53-T WITH BE USED FOR ALL VAULTS WITH THE DCDA ONLY LOCATED INSIDE THE VAULT.
<u> අමාර්ෂිර් කිරි</u>	INDIANA AMERICAN WATER
P SUMP PUMP LID	SCALE NO SCALE SHORT SIDE VAULT DETAIL
-	REVISIONS STANDARD FOR FIRE SERVICE
	& METER PIT FOR 2" AND SMALLER           METER CONFIGURATION
PE POST INDICATOR	DRAWN BY:     DATE:     CHECKED:       R.K.B.     2/2017     sd. C.       AUTOCAD FILE:     APPROVED:     1 of 1

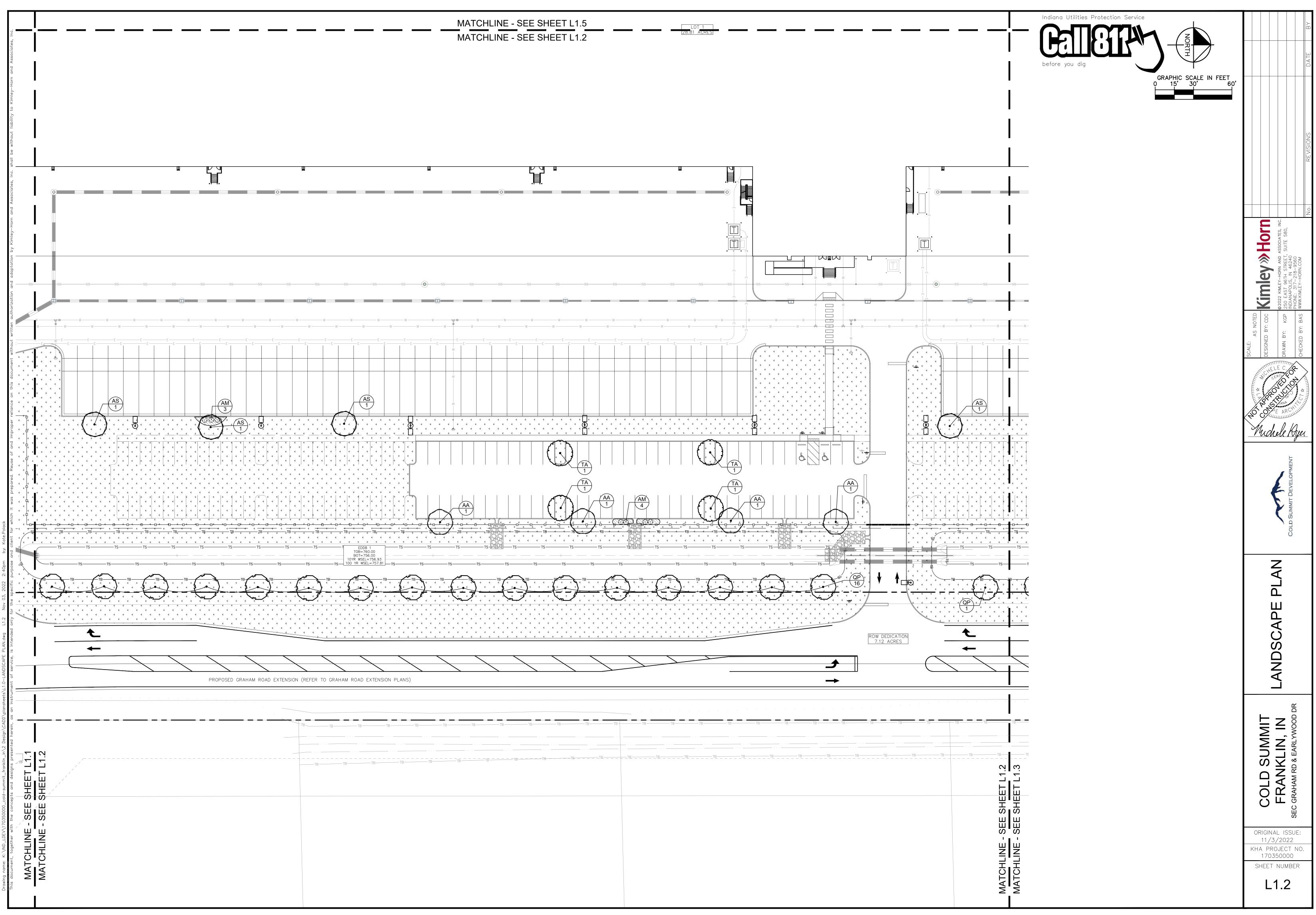


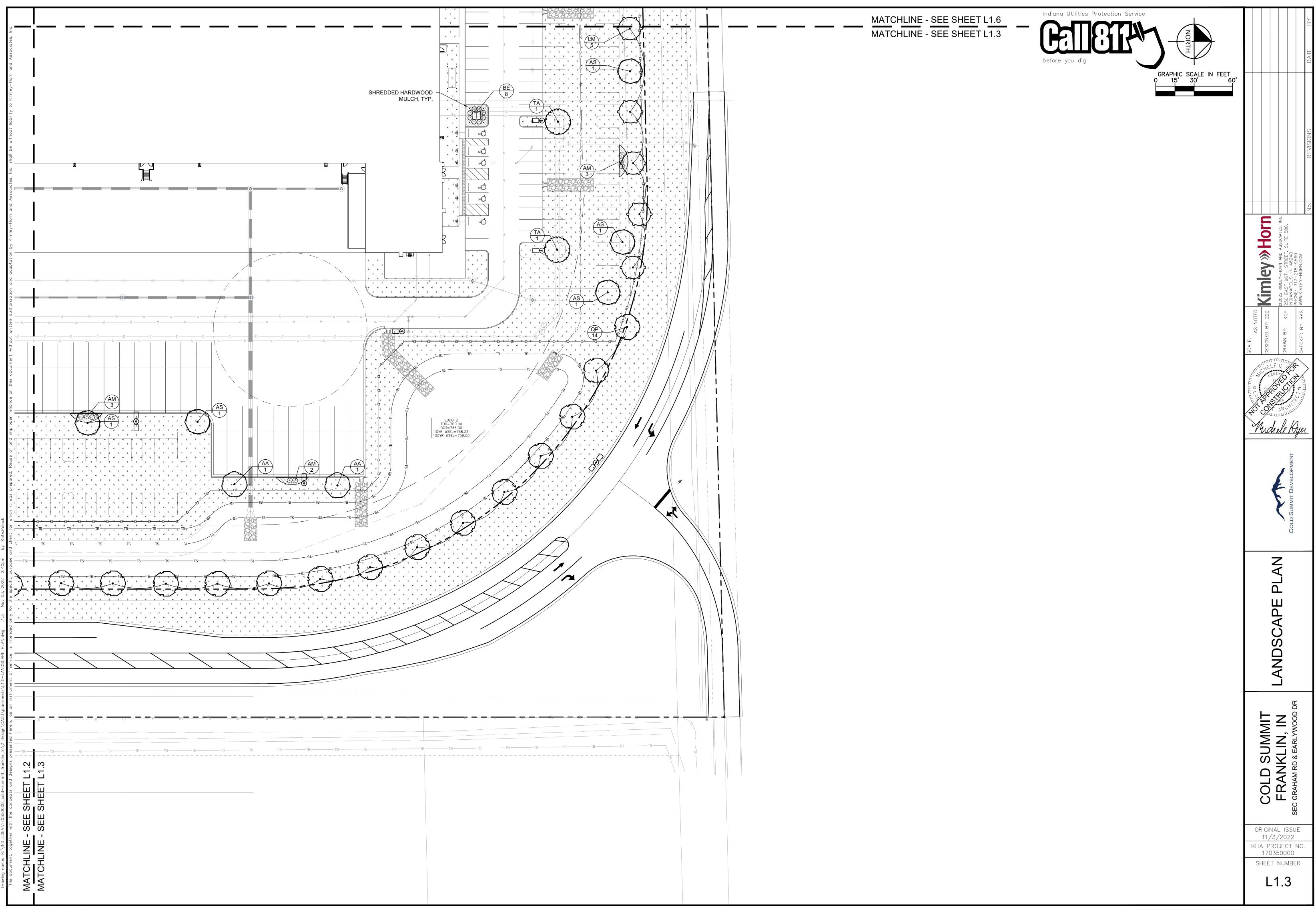
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PE POST INDICATOR	DRAWN BY:     DATE:     CHECKED:       R.K.B.     2/2017     sd. C.       AUTOCAD FILE:     APPROVED:

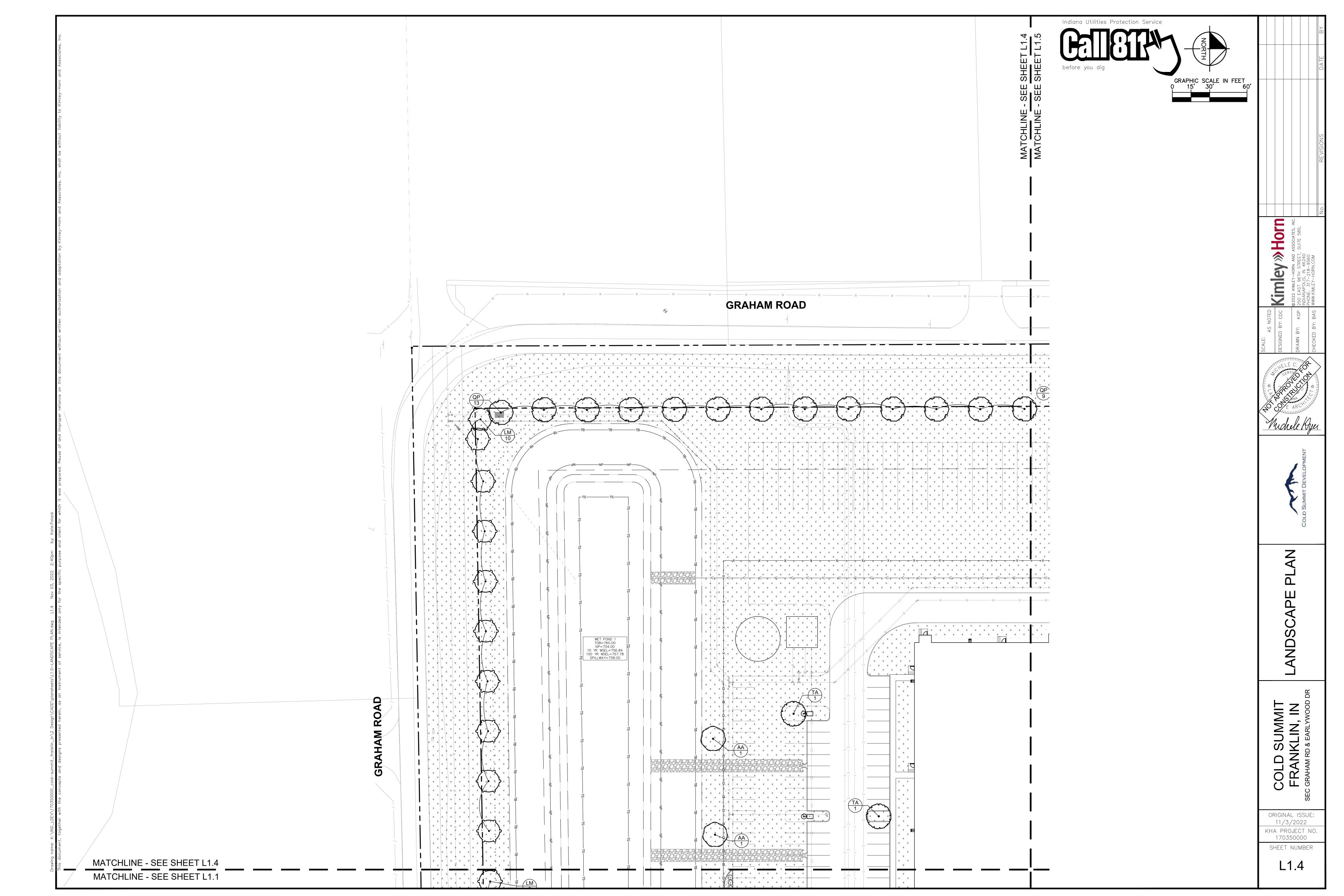


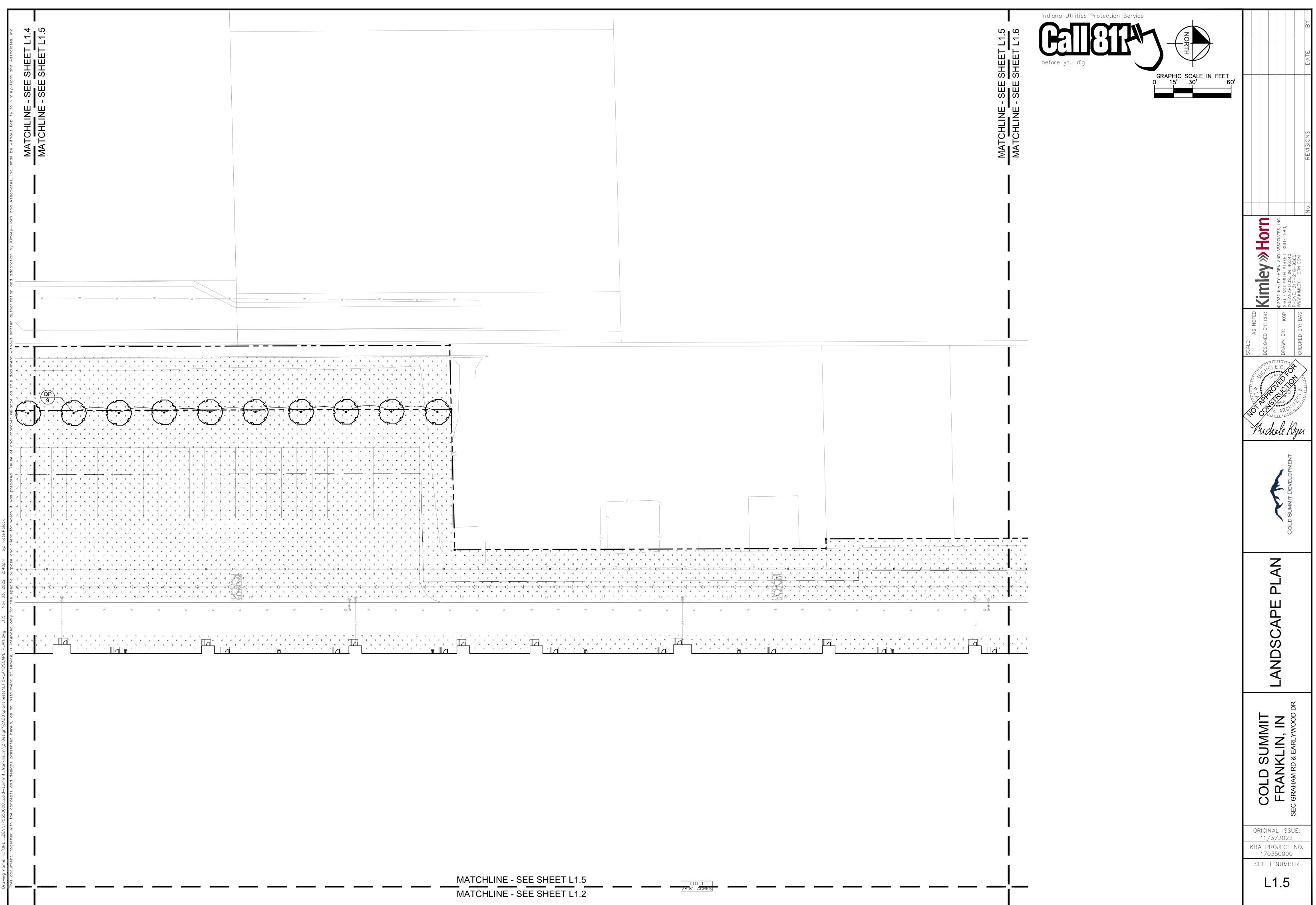
TB TB TB TB TB TB	TBTBTBTBTB	<u>TBTBTB</u> TBTB	











MATCHLINE - SEE SHEET L1.5	MATCHLINE - SEE SHEET L1.6	
		+ + + + + + + + + + + + + + + + + + +

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GRAPHIC SCALE IN FEET	DATE BY
	REVISIONS
	Minimum       Scale:       Scale:         Scale:       Scale:       Scale:       Scale:         Annum       Minimum       Minimum       Minimum         End       Minimum       Minimum       Minimum       Minimum
	COLD SUMMIT DEVELOPMENT
	LANDSCAPE PLAN
	COLD SUMMIT FRANKLIN, IN SEC GRAHAM RD & EARLYWOOD DR
	ORIGINAL ISSUE: 11/3/2022 KHA PROJECT NO. 170350000 SHEET NUMBER L1.6

Indiana Utilities Protection Service

before you dig

MATCHLINE - SEE SHEET L1.6 MATCHLINE - SEE SHEET L1.3

## PLANT SCHEDULE

<u>DECIDUOUS TREES</u> AA	<u>QTY</u> 10	<u>BOTANICAL NAME</u> ACER RUBRUM 'AUTUMN FLAME'	<u>COMMON NAME</u> AUTUMN FLAME RED MAPLE	CONT B & B	<u>CAL</u> 2.5" CAL MIN
AS	9	ACER SACCHARUM	SUGAR MAPLE	B & B	2.5" CAL MIN
LM	30	LIQUIDAMBAR STYRACIFLUA 'MORAINE'	MORAINE SWEET GUM	B & B	2.5" CAL MIN
QP	53	QUERCUS PALUSTRIS	PIN OAK	B & B	2.5" CAL MIN
ТА	9	TILIA AMERICANA	AMERICAN LINDEN	B & B	2.5" CAL MIN
SHRUBS AM	<u>QTY</u> 19	BOTANICAL NAME ARONIA MELANOCARPA	<u>COMMON NAME</u> BLACK CHOKEBERRY	<u>CONT</u> 	<u>SPACING</u> SEE PLAN
BE	16	BUXUS MICROPHYLLA 'GREEN VELVET'	GREEN VELVET BOXWOOD		SEE PLAN

	ORDINANCE CHART	
ZONING: IBD		
REQUIREMENT	REQUIRED	PROV
STREET TREES		1
• 1 DECIDUOUS TREE PER 40 LF	<ul> <li>GRAHAM RD = 1,621 LF / 40 = 41 TREES</li> <li>GRAHAM RD EXTENSION = 1,693 LF / 40 = 42 TREES</li> <li>EARLYWOOD DR = 400 LF / 40 = 10 TREES</li> </ul>	GRAHAM RD: 41 TREES     GRAHAM RD EXTENSION     TREES TO AVOID EASEME     EARLYWOOD DR: 10 TR
SITE INTERIOR LANDSCAPING		1
• 1 DECIDUOUS TREE PER 5000SF OF YARD AREA (682,668SF)	• 682,668SF / 5,000 SF = 136.53 -> 137 Trees	• 137 TREES MINIMUM
PARKING LOT PERIMETER LANDSCAPING		1
<ul> <li>1 DECIDUOUS TREE AND SHRUB PER 80LF</li> <li>3FT TALL BERM PROVIDED ALONG LENGTH OF LANDSCAPED AREA WITH 1 SHRUB PER 10LF OF BERM PROVIDED</li> </ul>	<ul> <li>NORTH: 208 LF / 80 = 3 TREES AND 3 SHRUBS</li> <li>EAST: 927 LF / 80 = 12 TREES AND 12 SHRUBS</li> <li>SOUTH: 289 LF / 80 = 4 TREES AND 4 SHRUBS</li> </ul>	<ul> <li>NORTH: 3 TREES AND 3</li> <li>EAST: 12 TREES AND 12</li> <li>SOUTH: 4 TREES AND 4</li> </ul>
PARKING LOT INTERIOR LANDSCAPING		1
<ul> <li>5% OF PAVED SURFACE TO BE LANDSCAPED AREA</li> <li>1 DECIDUOUS TREE PER 300SF OF INTERNAL LANDSCAPED AREA</li> </ul>	<ul> <li>52,216 SF X .05 = 2,611 SF LANDSCAPE AREA REQUIRED</li> <li>2,712 SF PROVIDED</li> <li>2,712 SF &gt; 2,611 SF</li> <li>2,712 / 300 = 9 TREES</li> </ul>	• 9 TREES • 2,712 SF > 5.2%
MECHANICAL SCREENING		
<ul> <li>ALL UTILITY AREAS, MAINTENANCE FACILITIES, MANUFACTURED ELEMENTS, AND INDUSTRIAL WASATE CENTER MUST BE SCREENED</li> <li>EVERGREEN SHRUBS 5' O.C. OR EVERGREEN TREES 20' O.C.</li> </ul>	• 2 TRANSFORMERS = 16 EVERGREEN SHRUBS	• 16 EVERGREEN SHRUBS

### LANDSCAPE NOTES

- 1. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING MATERIALS AND PLANTS SHOWN ON THE LANDSCAPE PLAN. THE CONTRACTOR IS RESPONSIBLE FOR THE COST TO REPAIR UTILITIES, ADJACENT LANDSCAPE, PUBLIC AND PRIVATE PROPERTY THAT IS DAMAGED BY THE CONTRACTOR OR THEIR SUBCONTRACTOR'S OPERATIONS DURING INSTALLATION OR DURING THE SPECIFIED MAINTENANCE PERIOD. CALL FOR UTILITY LOCATIONS PRIOR TO ANY EXCAVATION AND PLANTING. 2. THE CONTRACTOR SHALL REPORT ANY DISCREPANCY IN PLAN VS. FIELD CONDITIONS IMMEDIATELY TO THE LANDSCAPE ARCHITECT, PRIOR TO CONTINUING WITH THAT PORTION OF WORK.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY OF THEIR TRENCHES OR EXCAVATIONS THAT SETTLE.
- 4. ALL NURSERY STOCK SHALL BE WELL BRANCHED, HEALTHY, FULL, PRE-INOCULATED AND FERTILIZED. DECIDUOUS TREES SHALL BE FREE OF FRESH SCARS. TRUNKS WILL BE WRAPPED IF NECESSARY TO PREVENT SUN SCALD AND INSECT DAMAGE. THE LANDSCAPE CONTRACTOR SHALL REMOVE THE WRAP AT THE PROPER TIME AS A PART OF THIS CONTRACT.
- 5. ALL NURSERY STOCK SHALL BE GUARANTEED, BY THE CONTRACTOR, FOR ONE YEAR FROM DATE OF FINAL INSPECTION.
- 6. PLANTING AREA SOIL SHALL BE TOPSOIL FOR ALL TREE, SHRUB, ORNAMENTAL GRASS, PERENNIAL, AND ANNUAL BEDS. AMENDED SOIL SHALL BE PROVIDED AND GRADED BY THE GENERAL CONTRACTOR UP TO A 6" DEPTH BELOW FINISHED GRADE IN TURF AREAS AND A 12" DEPTH IN PLANTING AREAS.
- 7. PLANTING AREA TOPSOIL SHALL BE AMENDED WITH 25% SPHAGNUM PEATMOSS, 5% HUMUS AND 65% PULVERIZED SOIL. AMENDED TURF AREA SOIL SHALL BE STANDARD TOPSOIL. TOPSOIL SHALL CONFORM TO TECHNICAL SPECIFICATIONS FREE OF HEAVY CLAY, ROCKS, AND DIRT CLODS OVER 1 INCH IN DIAMETER, AS WELL AS CONTAIN 3%-5% OF ORGANIC MATTER.
- 8. SEED/SOD LIMIT LINES ARE APPROXIMATE. CONTRACTOR SHALL SEED/SOD ALL AREAS WHICH ARE DISTURBED BY GRADING WITH THE SPECIFIED SEED/SOD MIXES.

<u>HT</u>

<u>SIZE</u> 18" HT MIN 18" HT MIN

OVIDED ON: 32 TREES (LESS 10 /ENT) REES

3 SHRUBS 2 SHRUBS 4 SHRUBS

9. CONTRACTOR SHALL STAKE INDIVIDUAL TREE AND SHRUB LOCATIONS AND OUTLINE HERBACEOUS PLANTING AREAS, SHALL ADJUST LOCATIONS WHEN REQUESTED, AND SHALL OBTAIN PROJECT LANDSCAPE ARCHITECT'S ACCEPTANCE PRIOR TO PLANTING.

10. ALL PLANT ID TAGS SHALL BE REMOVED AFTER INSTALLATION.

11. CONTRACTOR SHALL INSTALL SHREDDED HARDWOOD MULCH AT A 3" DEPTH TO ALL TREES, SHRUB, PERENNIAL, AND GROUNDCOVER AREAS. TREES PLACED IN AREA COVERED BY TURF SHALL RECEIVE A 4 FT WIDE MAXIMUM TREE RING WITH 3" DEPTH SHREDDED HARDWOOD MULCH. A SPADED BED EDGE SHALL SEPARATE MULCH BEDS FROM TURF OR SEEDED AREAS. A SPADED EDGE IS NOT REQUIRED ALONG CURBED EDGES.

12. WEED FABRIC SHALL BE REQUIRED UNDER MULCH.

13. MULCH SHALL NOT BE HELD IN PLACE BY PLASTIC NET, OR SPRAYING OF ANY BINDER MATERIAL OR ASPHALT EMULSION.

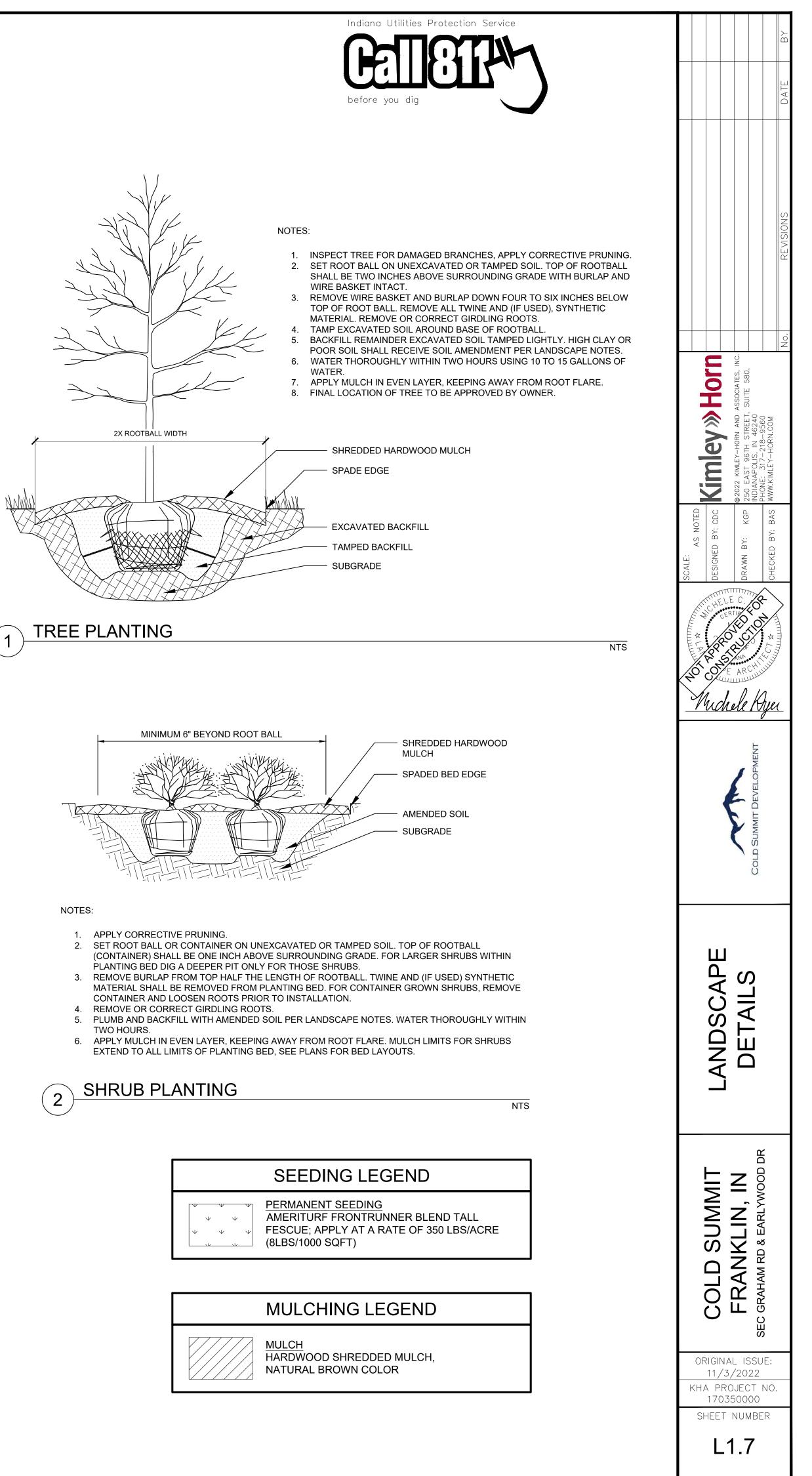
14. DO NOT DISTURB THE EXISTING PAVING, LIGHTING, OR LANDSCAPING THAT EXISTS ADJACENT TO THE SITE UNLESS OTHERWISE NOTED ON PLAN.

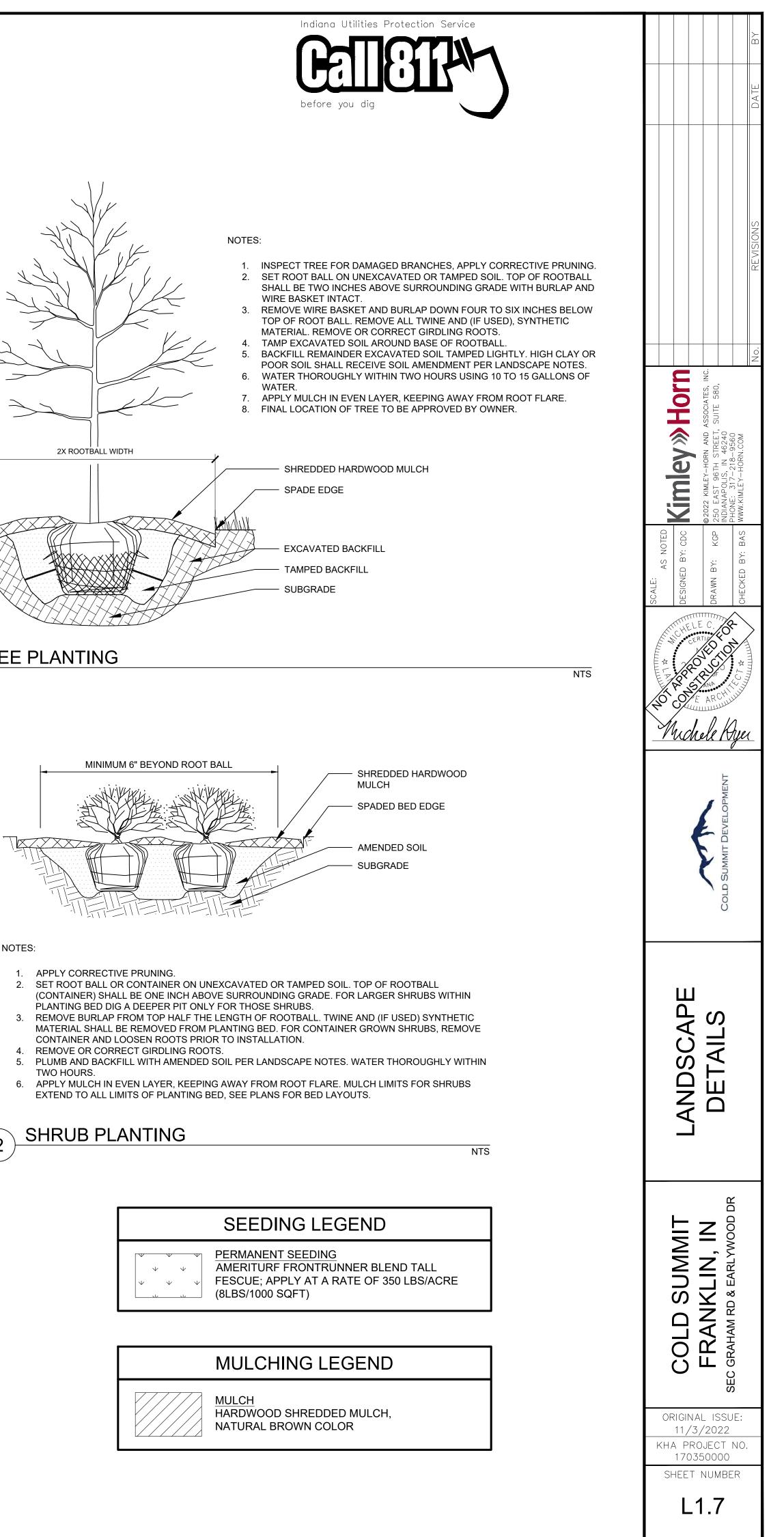
15. PLANT QUANTITIES SHOWN ARE FOR THE CONVENIENCE OF THE OWNER AND JURISDICTIONAL REVIEW AGENCIES. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES AS DRAWN.

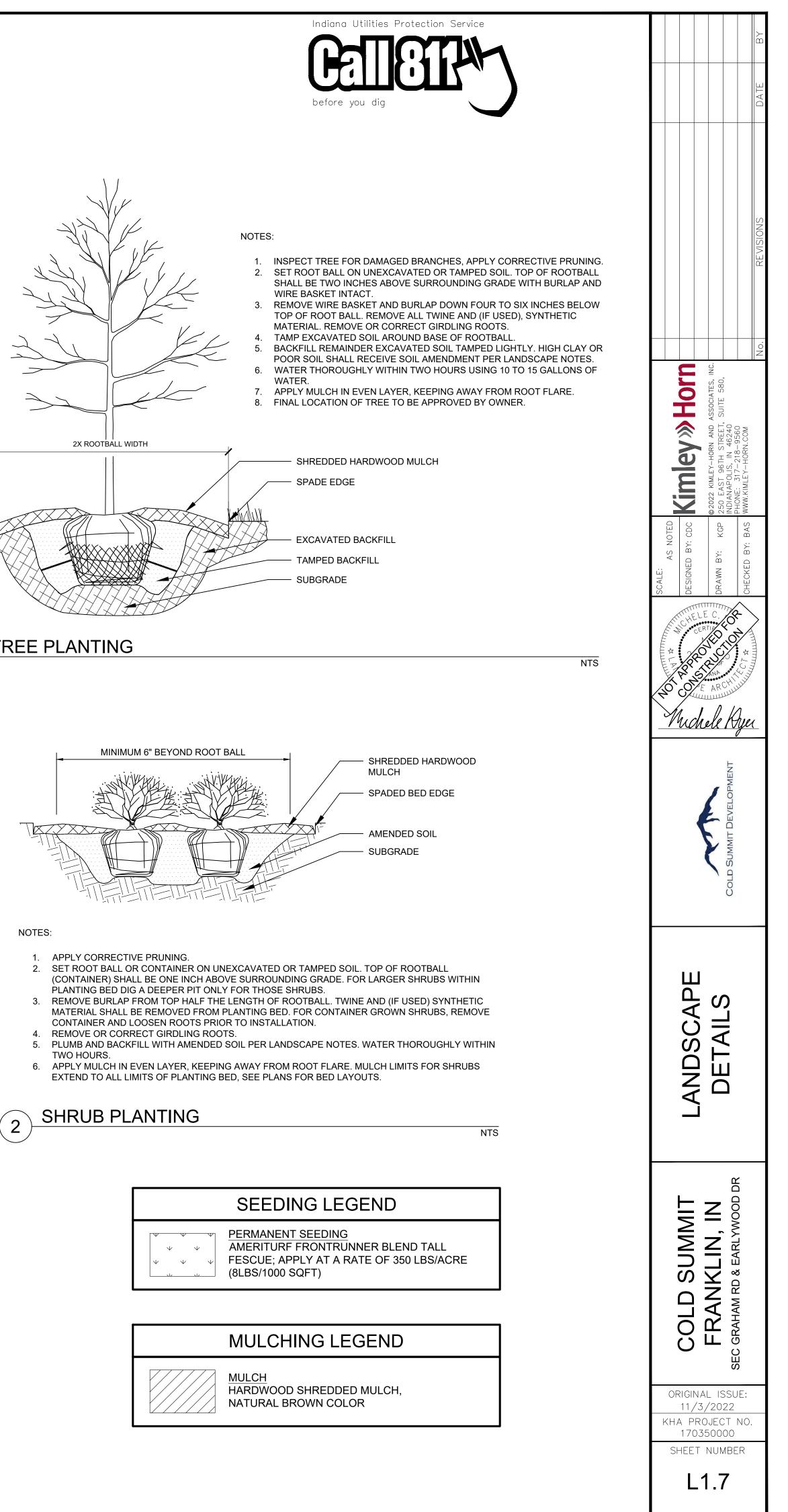
16. THE OWNER'S REPRESENTATIVE MAY REJECT ANY PLANT MATERIALS THAT ARE DISEASED, DEFORMED, OR OTHERWISE NOT EXHIBITING SUPERIOR QUALITY.

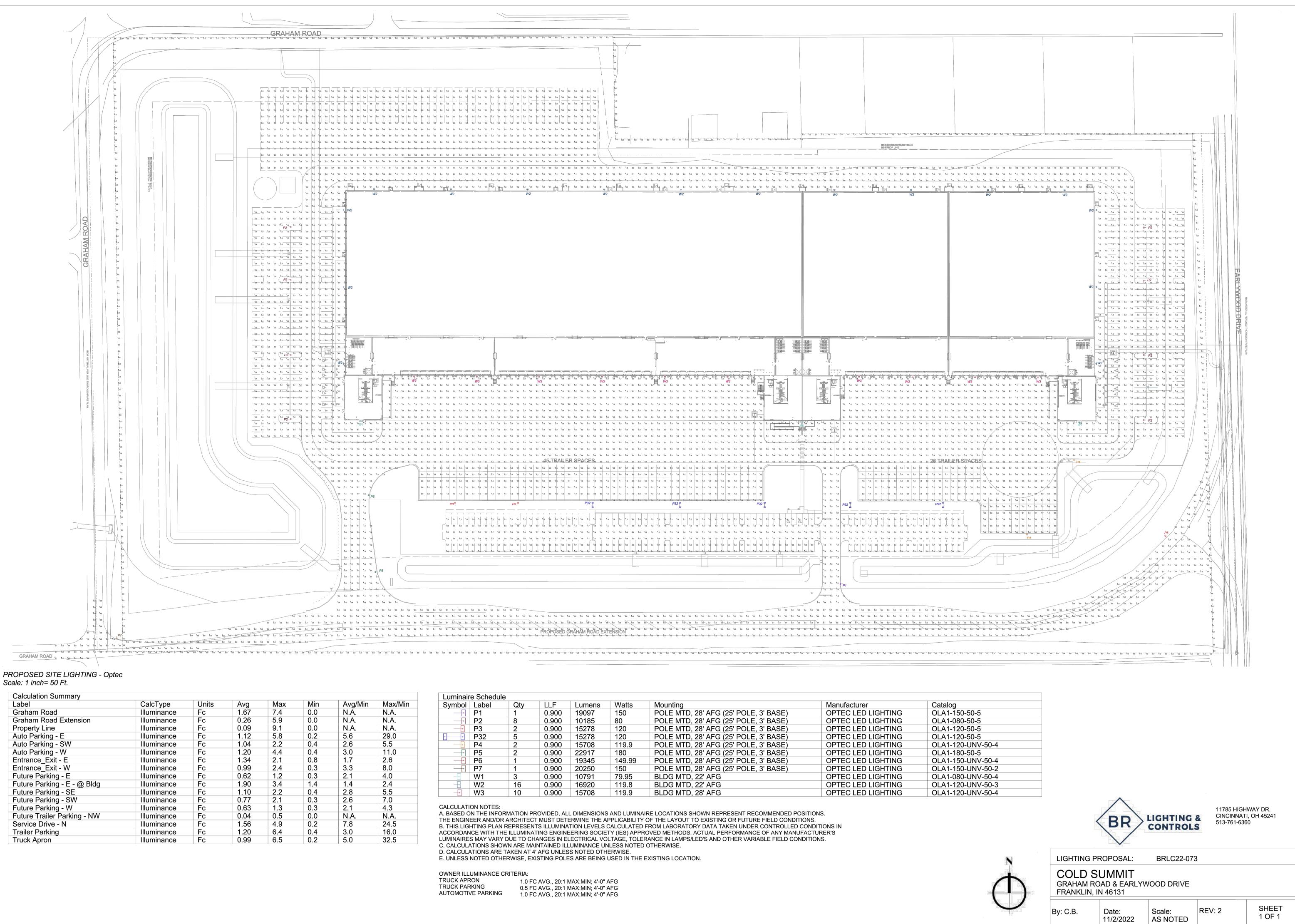
17. WEEDING, LANDSCAPE MAINTENANCE, AND WATERING TO BE THE CONTRACTOR'S RESPONSIBILITY DURING CONSTRUCTION. ALL PLANT MATERIALS REQUIRED BY THIS SECTION SHALL BE MAINTAINED AS LIVING VEGETATION AND SHALL BE PROMPTLY REPLACED BY LANDSCAPE CONTRACTOR DURING WARRANTY PERIOD IF THE PLANT MATERIAL HAS DIED PRIOR TO FINAL ACCEPTANCE. PLANTING AREAS SHALL BE KEPT FREE OF TRASH, LITTER, AND WEEDS AT ALL TIMES.

18. THE CONTINUED MAINTENANCE OF ALL REQUIRED LANDSCAPING AFTER WARRANTY PERIOD EXPIRES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY ON WHICH SAID MATERIALS ARE REQUIRED.









Calculation Summary						
Label	Units	Avg	Max	Min	Avg/Min	
Graham Road	Illuminance	Fc	1.67	7.4	0.0	N.Ă.
Graham Road Extension	Illuminance	Fc	0.26	5.9	0.0	N.A.
Property Line	Illuminance	Fc	0.09	9.1	0.0	N.A.
Auto Parking - E	Illuminance	Fc	1.12	5.8	0.2	5.6
Auto Parking - SW	Illuminance	Fc	1.04	2.2	0.4	2.6
Auto Parking - W	Illuminance	Fc	1.20	4.4	0.4	3.0
Entrance_Exit - E	Illuminance	Fc	1.34	2.1	0.8	1.7
Entrance_Exit - W	Illuminance	Fc	0.99	2.4	0.3	3.3
Future Parking - E	Illuminance	Fc	0.62	1.2	0.3	2.1
Future Parking - E - @ Bldg	Illuminance	Fc	1.90	3.4	1.4	1.4
Future Parking - SE	Illuminance	Fc	1.10	2.2	0.4	2.8
Future Parking - SW	Illuminance	Fc	0.77	2.1	0.3	2.6
Future Parking - W	Illuminance	Fc	0.63	1.3	0.3	2.1
Future Trailer Parking - NW	Illuminance	Fc	0.04	0.5	0.0	N.A.
Service Drive - N	Illuminance	Fc	1.56	4.9	0.2	7.8
Trailer Parking	Illuminance	Fc	1.20	6.4	0.4	3.0
Truck Apron	Illuminance	Fc	0.99	6.5	0.2	5.0

Max/Min
N.A.
N.A.
N.A.
29.0
5.5
11.0
2.6
8.0
4.0
2.4
5.5
7.0
4.3
N.A.
24.5
16.0
20 E

iminaire Schedule	

Symbol	Label	Qty	LLF	Lumens	Watts	Mounting	Manufacturer
	P1	1	0.900	19097	150	POLE MTD, 28' AFG (25' POLE, 3' BASE)	OPTEC LED LIGH
	P2	8	0.900	10185	80	POLE MTD, 28' AFG (25' POLE, 3' BASE)	OPTEC LED LIGH
	P3	2	0.900	15278	120	POLE MTD, 28' AFG (25' POLE, 3' BASE)	OPTEC LED LIGH
++	P32	5	0.900	15278	120	POLE MTD, 28' AFG (25' POLE, 3' BASE)	OPTEC LED LIGH
	P4	2	0.900	15708	119.9	POLE MTD, 28' AFG (25' POLE, 3' BASE)	OPTEC LED LIGH
	P5	2	0.900	22917	180	POLE MTD, 28' AFG (25' POLE, 3' BASE)	OPTEC LED LIGH
	P6	1	0.900	19345	149.99	POLE MTD, 28' AFG (25' POLE, 3' BASE)	OPTEC LED LIGH
	P7	1	0.900	20250	150	POLE MTD, 28' AFG (25' POLE, 3' BASE)	OPTEC LED LIGH
	W1	3	0.900	10791	79.95	BLDG MTD, 22' AFG	OPTEC LED LIGH
	W2	16	0.900	16920	119.8	BLDG MTD, 22' AFG	OPTEC LED LIGH
	W3	10	0.900	15708	119.9	BLDG MTD, 28' AFG	OPTEC LED LIGH

1.0 FC AVG., 20:1 MAX:MIN; 4'-0" AFG
0.5 FC AVG., 20:1 MAX:MIN; 4'-0" AFG
1.0 FC AVG., 20:1 MAX:MIN; 4'-0" AFG