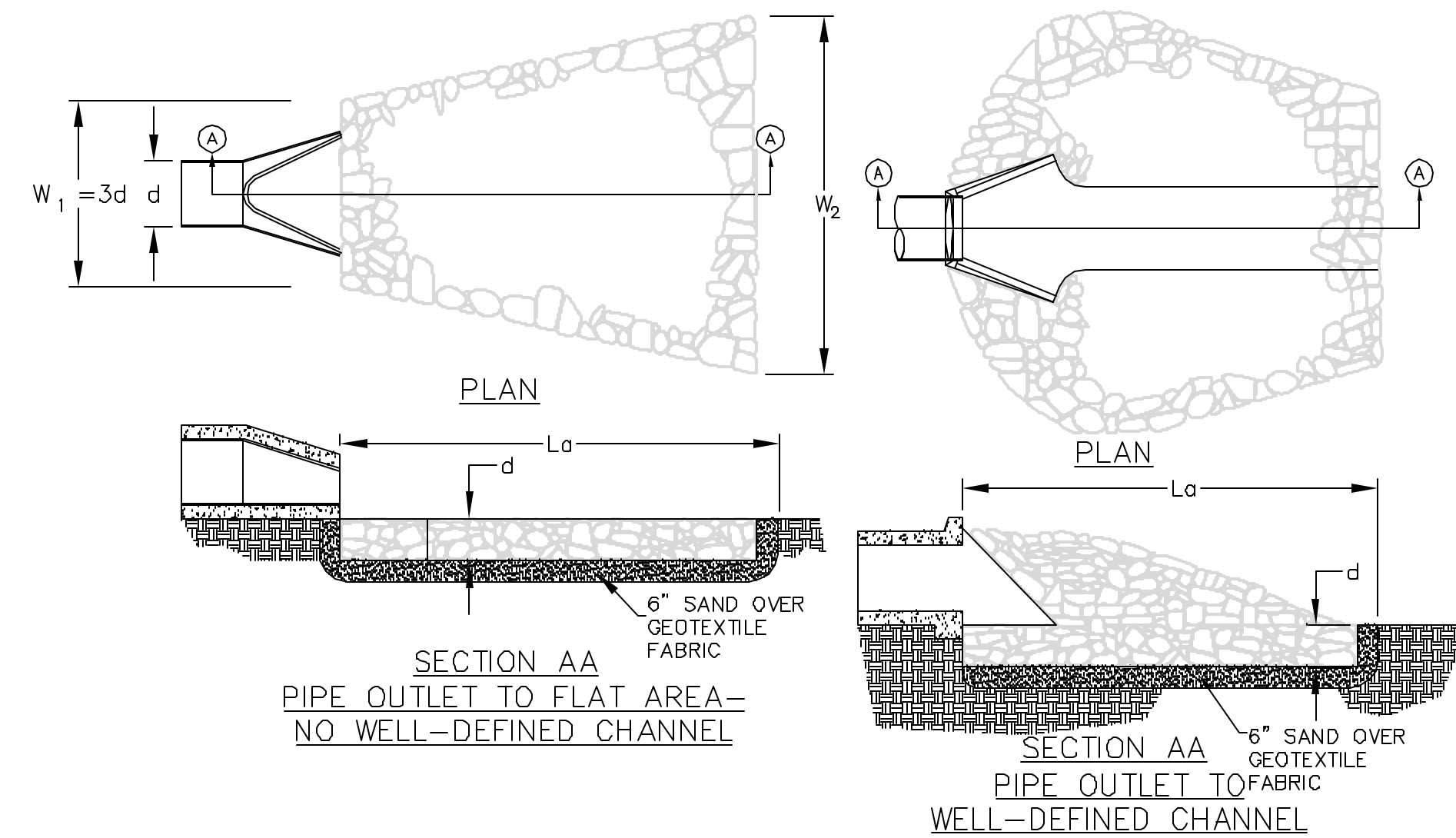


MAINTENANCE:
 ALL EROSION CONTROL BLANKETS AND MATTING SHOULD BE INSPECTED PERIODICALLY FOLLOWING INSTALLATION, PARTICULARLY AFTER RAINSTORMS TO CHECK FOR EROSION AND UNDERMINING. ANY DISLOCATION OR FAILURE SHOULD BE REPAIRED IMMEDIATELY. IF WASHOUTS OR BREAKAGE OCCURS, REINSTALL THE MATERIAL AFTER REPAIRING DAMAGE TO THE SLOPE OR DITCH. CONTINUE TO MONITOR THESE AREAS UNTIL THEY BECOME PERMANENTLY STABILIZED.

NOTES:
 START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.
 FIRST ROLL IS CENTERED LONGITUDINALLY IN MIDCHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.
 SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND FIRST ROLL FOR ALIGNMENT TO CHANNEL CENTER.
 WORK OUTWARDS FROM CHANNEL CENTER TO EDGE.
 USE 3" (THREE INCH) OVERLAP AND STAKE AT 5' (FIVE FOOT) INTERVALS ALONG SEAMS.
 USE 3' (THREE FOOT) OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT LINING AT ROLL ENDS.

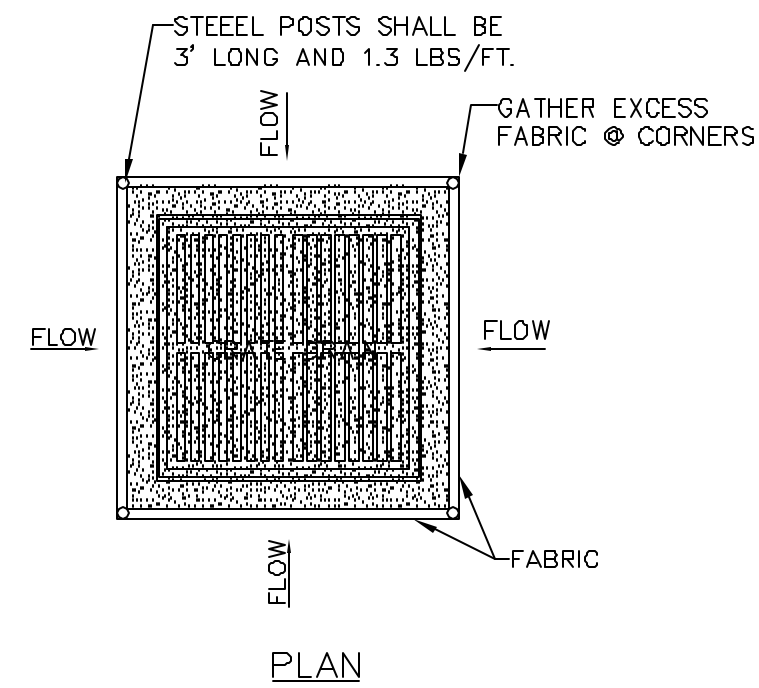
Mb EROSION CONTROL MATTING
 SCALE: NTS



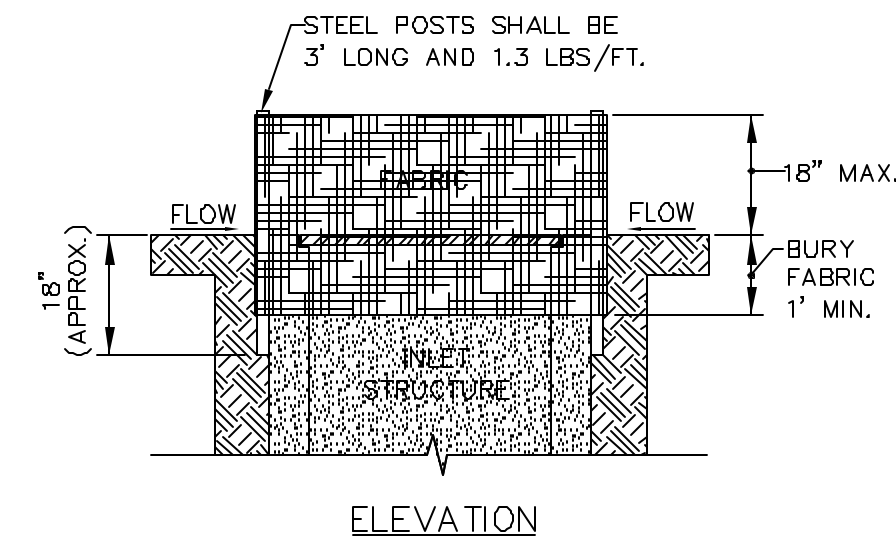
STRUCTURE	DIA. (FT)	Q ₂₅ (CFS)	V ₂₅ (FPS)	TW (FT)	L _o	W ₁	W ₂	d50 (FT)	D (FT)
A0	2.5	13.3	2.7	4.5	12	7.5	7.5	0.5	1.2
B0	2	5.0	4.0	0.0	13	6	15	0.2	0.5

MAINTENANCE
 INSPECT RIPRAP OUTLET STRUCTURES AFTER HEAVY RAINS TO SEE IF ANY EROSION AROUND OR BELOW THE RIPRAP HAS TAKEN PLACE OR IF STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

St STORM DRAIN OUTLET PROTECTION
 SCALE: NTS

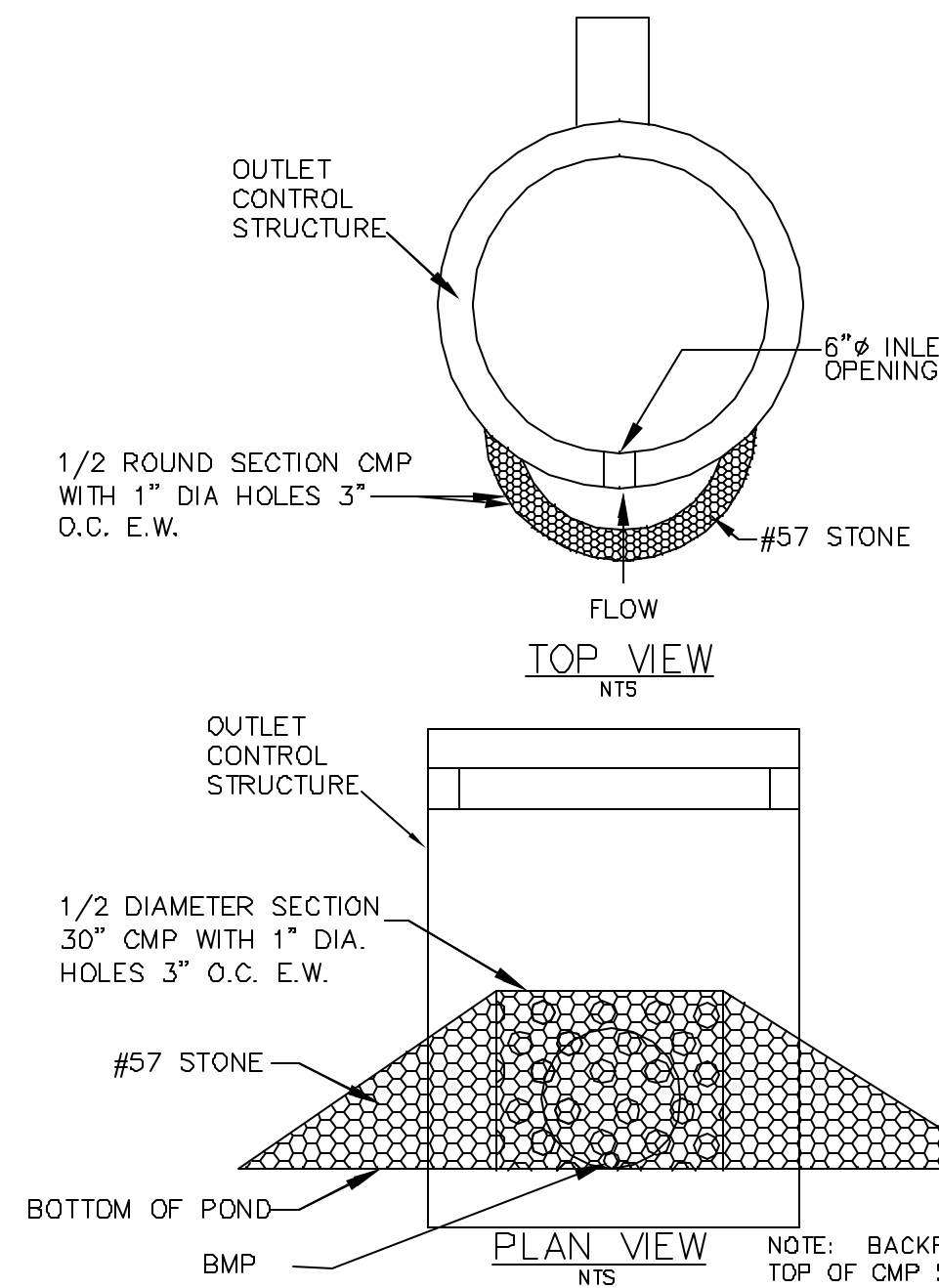


INSTALLATION NOTES:
 1. STAKES SHALL BE STEEL POSTS @ 3' MIN. & 1.3 LBS/FT.
 2. SPACE STAKES EVENLY AROUND THE PERIMETER OF THE INLET A MAX. OF 3 FT. APART, & SECURELY DRIVE THEM INTO THE GROUND, APPROXIMATELY 18 IN. DEEP.
 3. TO PROVIDE NEEDED STABILITY TO THE INSTALLATION, FRAME WITH 2x4 IN. WOOD STRIPS AROUND THE CREST OF THE OVERFLOW AREA @ A MAX. OF 1.5 FT. ABOVE THE DROP INLET CREST.
 4. PLACE THE BOTTOM 12 IN. OF THE FABRIC IN A TRENCH & BACKFILL THE TRENCH W/AT LEAST 4 IN. OF CRUSHED STONE OR 12 IN. OF COMPACTED SOIL.
 5. FASTEN FABRIC SECURELY TO THE POSTS & FRAME. JOINTS MUST BE OVERLAPPED TO THE NEXT STAKE.
 6. THE TOP OF THE FRAME AND FABRIC MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE FROM THE DROP INLET TO KEEP RUNOFF FROM BYPASSING THE INLET. IT MAY BE NECESSARY TO BUILD A TEMPORARY DIKE ON THE DOWN SLOPE SIDE OF THE STRUCTURE TO PREVENT BYPASS FLOW.



MAINTENANCE
 THE TRAP SHALL BE INSPECTED DAILY AND AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE TRAP. IT SHALL BE REMOVED FROM THE SEDIMENT TRAP AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLET, AGAIN.
 WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, ALL MATERIALS AND ANY SEDIMENT SHALL BE REMOVED, AND EITHER SALVAGED OR DISPOSED OF PROPERLY. THE DISTURBED AREA SHALL BE BROUGHT TO PROPER GRADE, THEN SMOOTHED AND COMPACTED. APPROPRIATELY STABILIZE ALL DISTURBED AREAS AROUND THE INLET.

Sd2-F INLET SEDIMENT TRAP - FABRIC & SUPPORTING FRAME
 SCALE: NTS



POND #
 Storage Calculations
 1. Required stormwater storage = 3040 cy (as determined by local ordinance)
 2. Required sediment storage = 411 cy (67 cy/ac * 6.12ac disturbed area)
 3. Total required storage = 3040 + 411 = 3451 cy
 4. Available storage = 3630 cy
 5. Is the available storage (4) greater than the total required storage (3)?
 - yes
 - no
 6. If "no", the sediment storage capacity of the pond must be increased. Choose the method to be used:
 - Raise the invert of the outlet structure _____ feet
 - Undercut the pond _____ feet
 - Other _____
 7. Clean-out elevation = 9.0 ft (Elevation corresponding to 22 cy/ac * 6.12ac disturbed area)
 8. Is the length-width ratio 2:1 or greater?
 - yes
 - no
 9. If "no", the length of flow must be increased. Choose the method to be used:
 - Baffles (Type of baffles: _____)
 - Other _____
 Note the CMP diameter and height if a half-round CMP retrofit is to be used.
 Diameter = 30 inches Height = 4 feet

MAINTENANCE:
 RETROFIT STRUCTURES SHALL BE KEPT CLEAR OF TRASH AND DEBRIS. THIS WILL REQUIRE CONTINUOUS MONITORING AND MAINTENANCE, WHICH INCLUDES SEDIMENT REMOVAL WHEN ONE-THIRD OF THE SEDIMENT STORAGE CAPACITY HAS BEEN LOST. STRUCTURES ARE TEMPORARY AND SHALL BE REMOVED WHEN DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.

Rt-P PERFORATED HALF-ROUND PIPE WITH STONE FILTER
 SCALE: NTS

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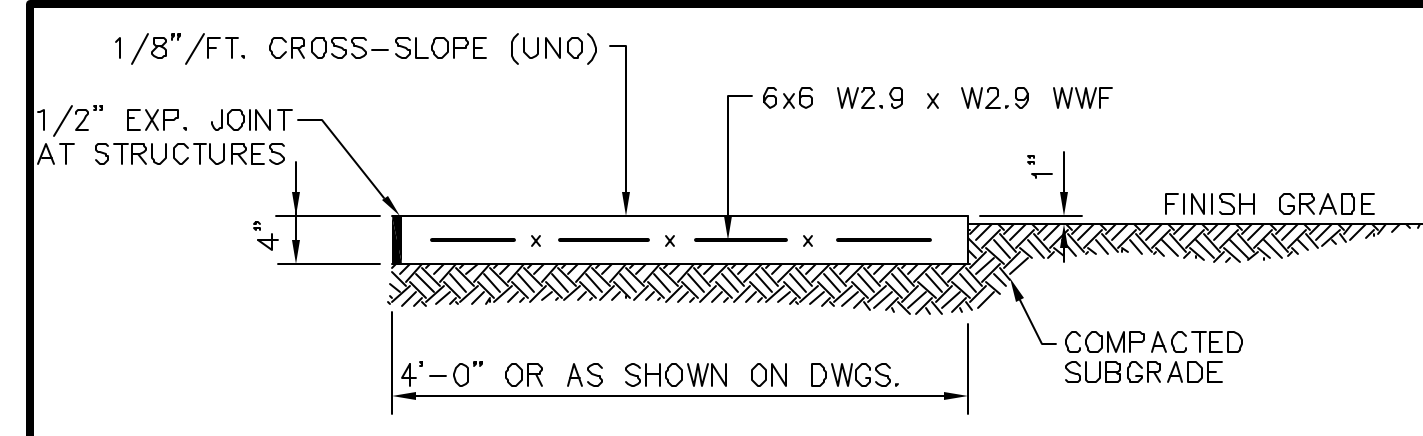
EXIT 29 WPCP EXPANSION
 PHASE 3

EROSION CONTROL DETAILS

DESIGNED: KAK	CHECKED:	DATE: MAY 2008	C80.3	R
DRAWN: DLB	JOB NO. 02018040	SCALE: NTS	SHEET	REV

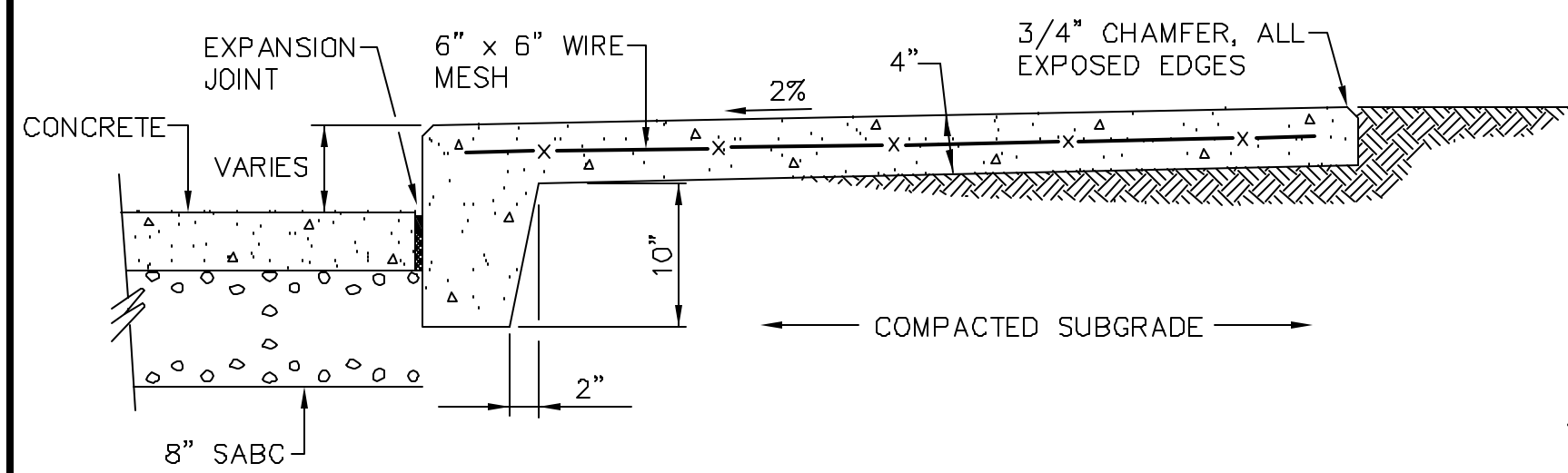
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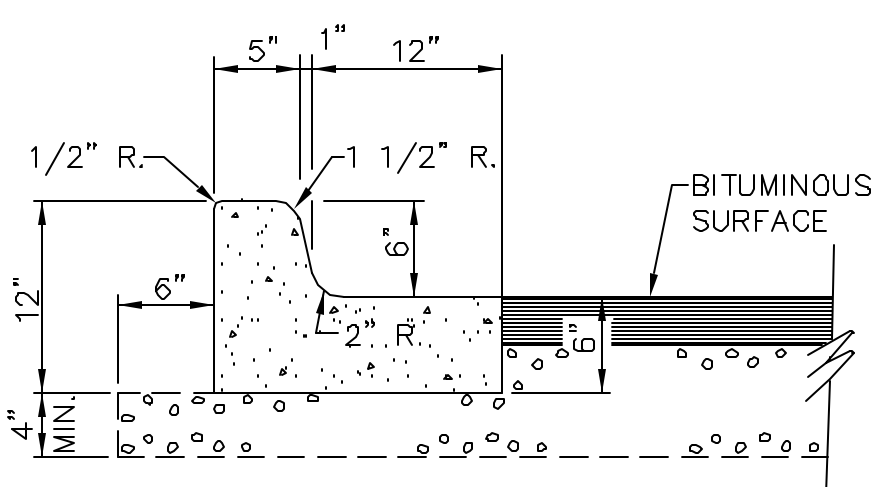


NOTE:
EXPANSION JOINTS IN CONCRETE SIDEWALKS SHALL BE SPACED AT THIRTY (30) FEET ON CENTER (MAXIMUM) AND AT ALL WALKWAY INTERSECTIONS. DUMMY GROOVE JOINTS SHALL BE PLACED AT SIX (6) FEET ON CENTER OR AS OTHERWISE SHOWN ON THE DRAWINGS.

CONCRETE SIDEWALK (1) NTS

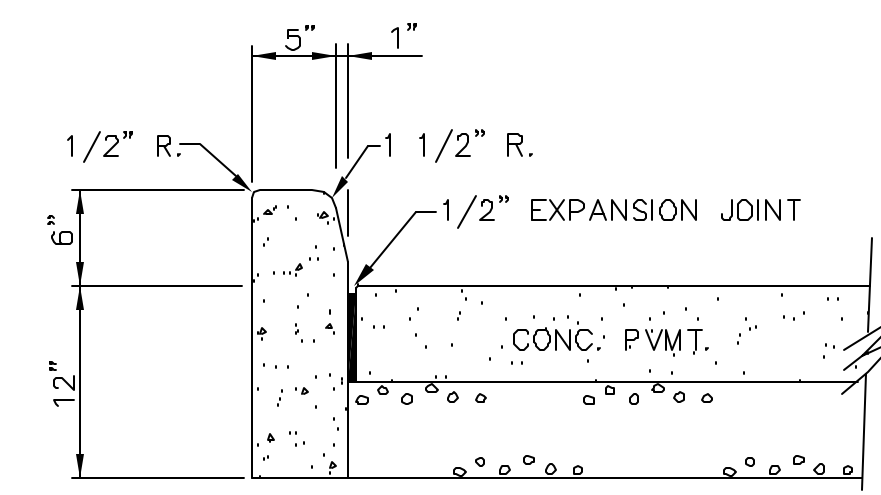


INTEGRAL CURB AND WALK (2) NTS



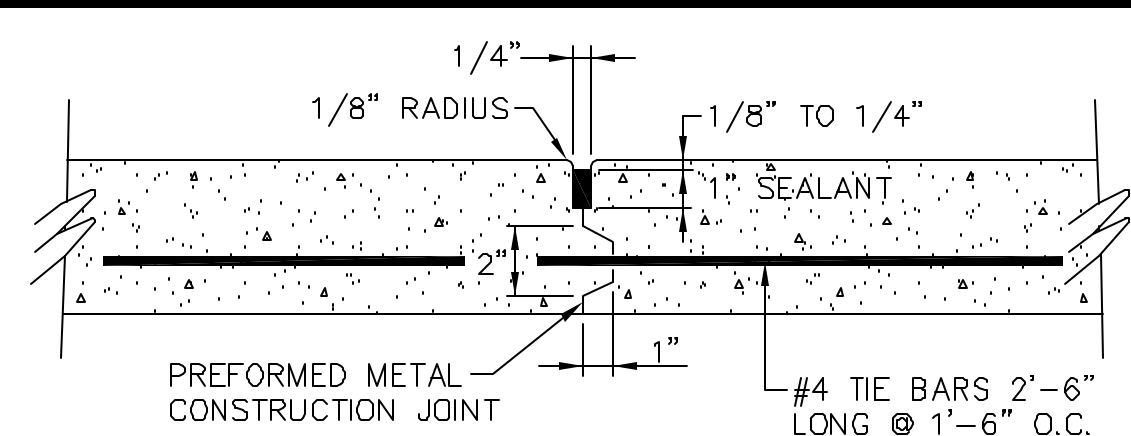
NOTE:
CROSS SLOPE OF GUTTER SAME AS PVMT.

CURB AND GUTTER (3) NTS

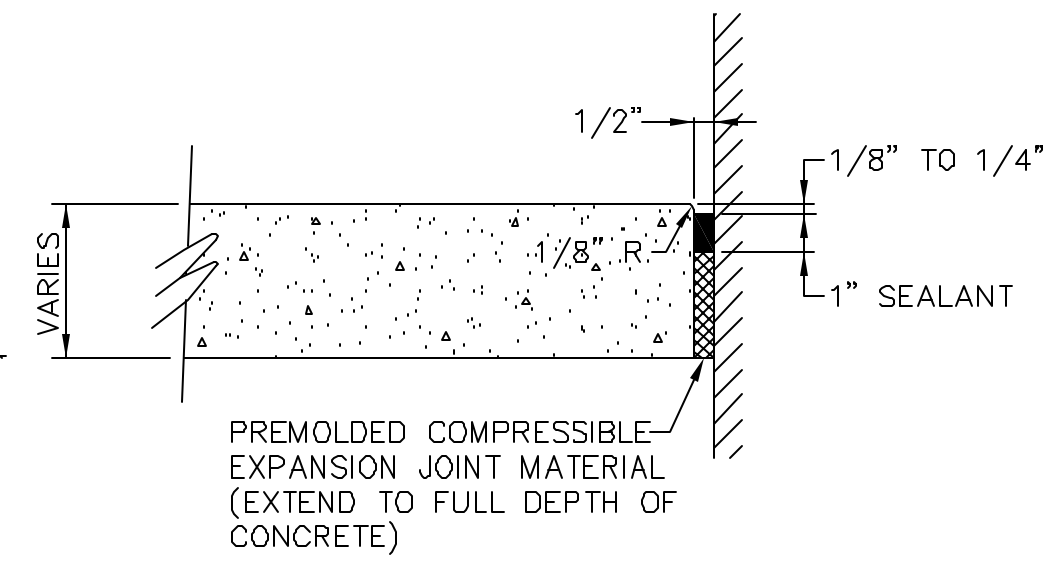


NOTE:
CROSS SLOPE OF GUTTER SAME AS PVMT.

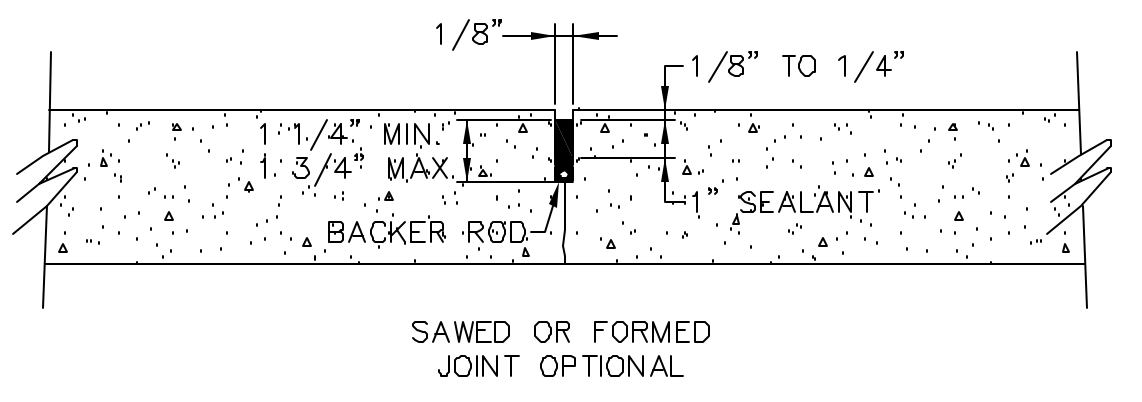
STAND UP CURB (4) NTS



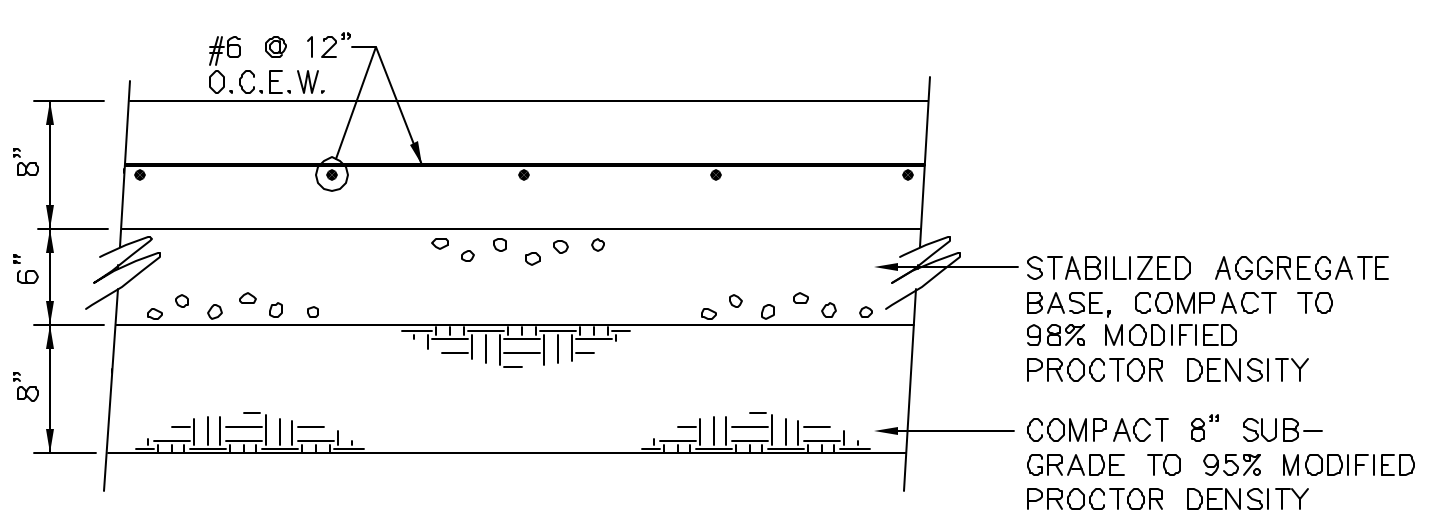
CONSTRUCTION JOINT (5) NTS



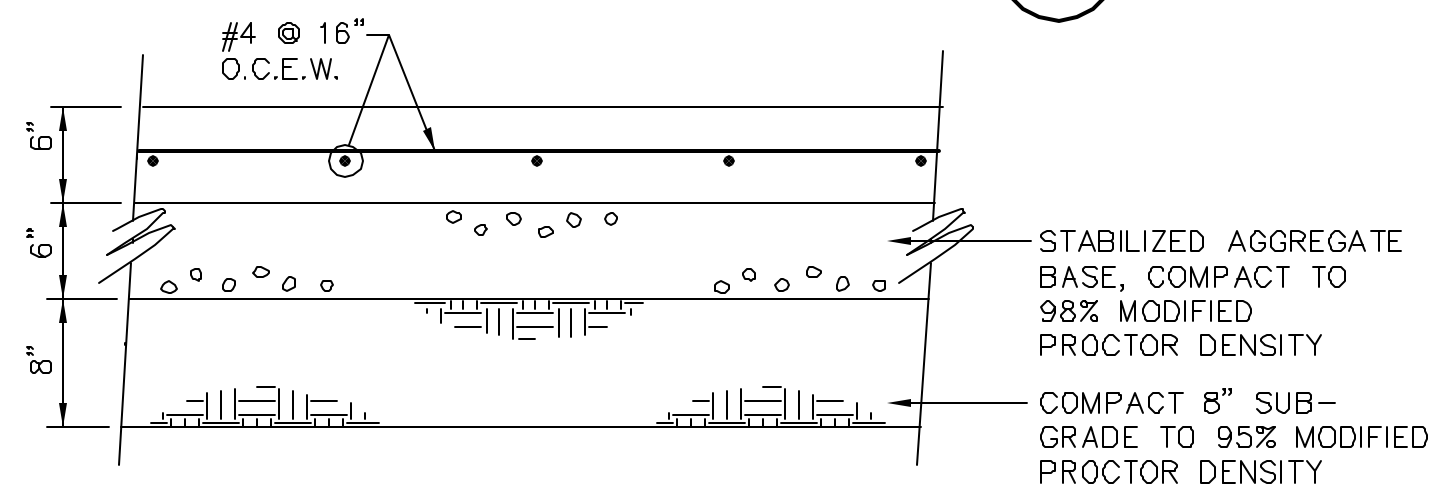
EXPANSION JOINT (6) NTS



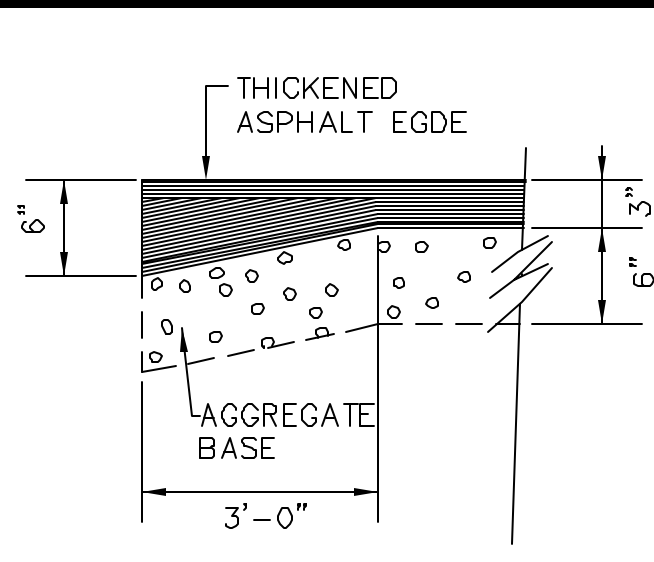
CONTRACTION JOINT (7) NTS



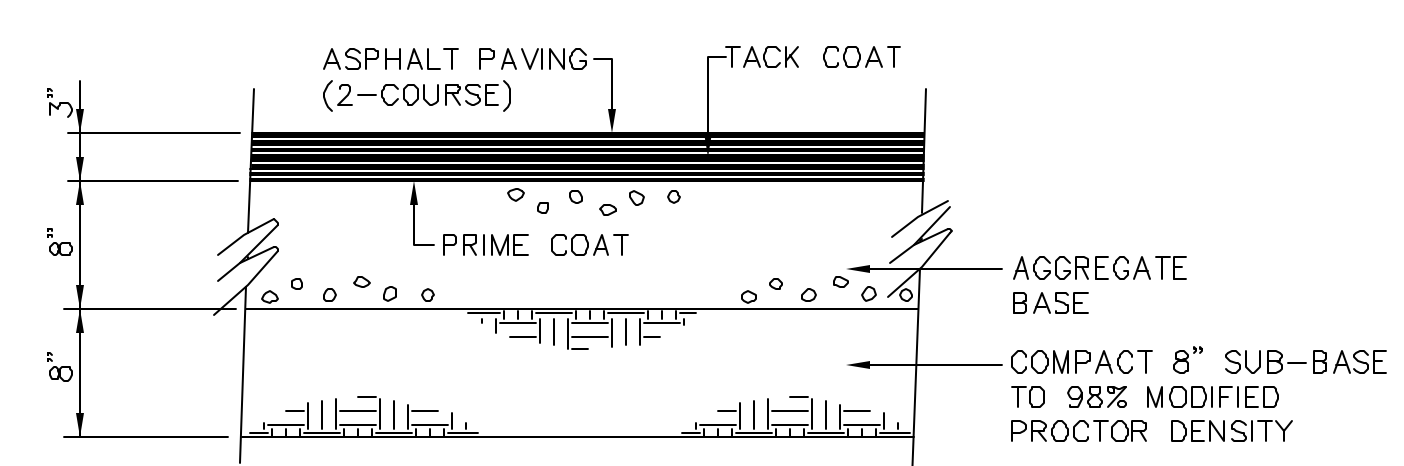
HEAVY CONCRETE PAVING SECTION (8) NTS



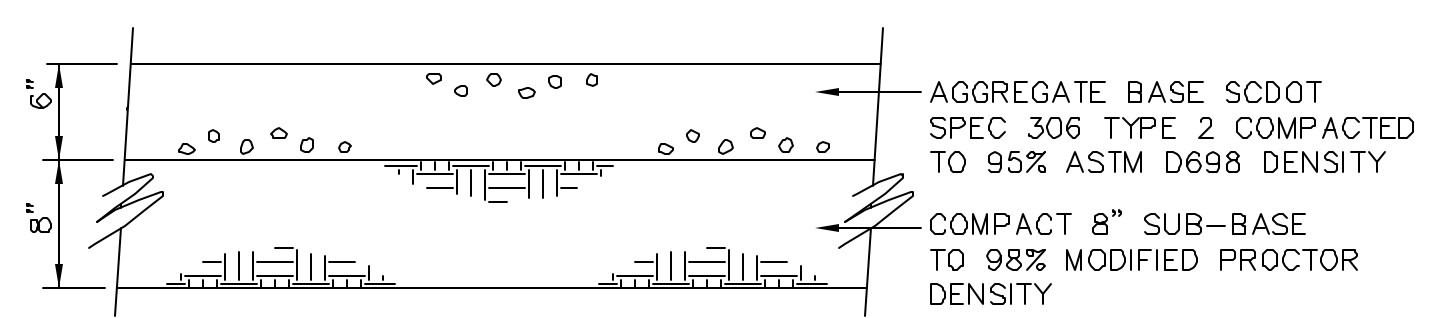
REGULAR CONCRETE PAVING SECTION (9) NTS



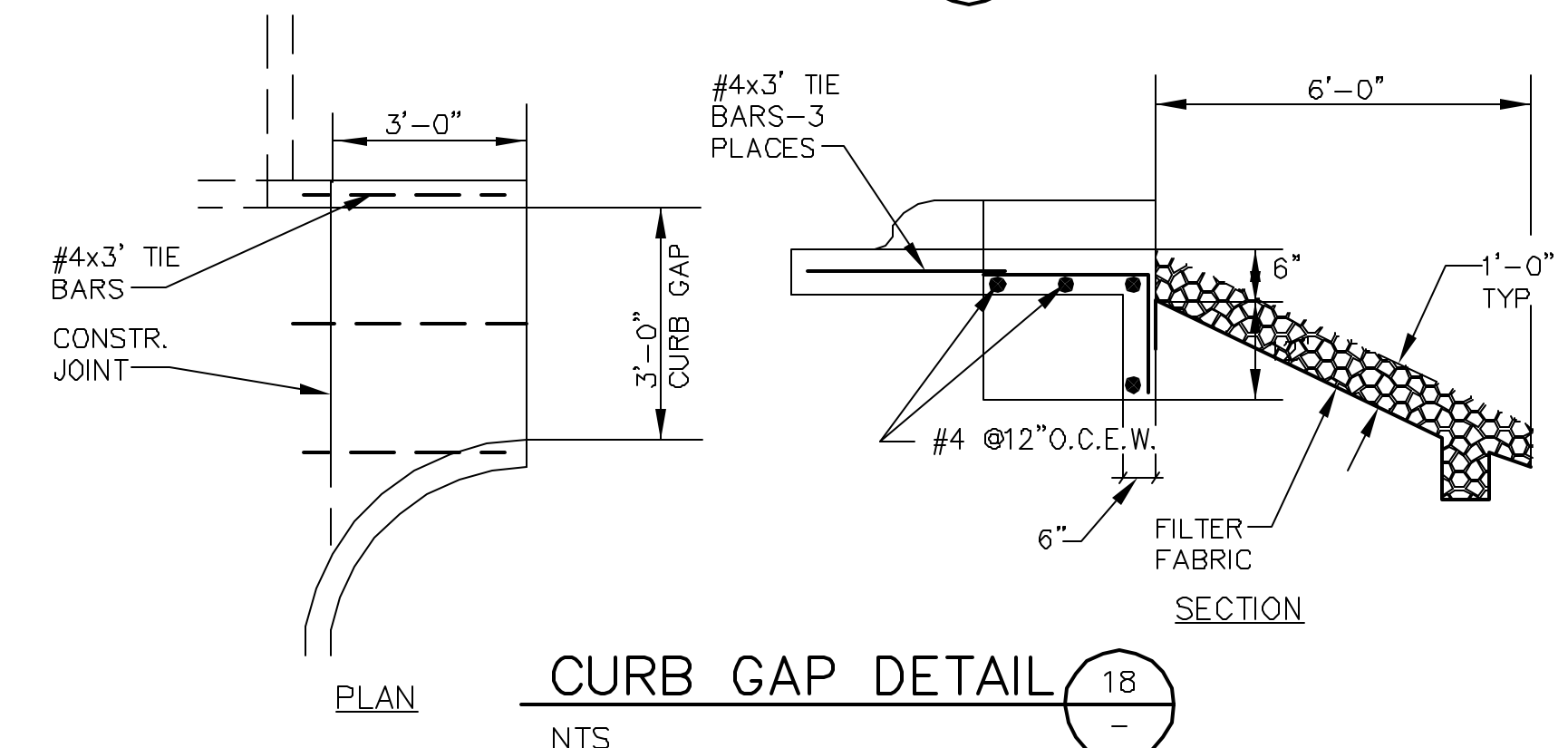
THICKENED ASPHALT EDGE (10) NTS



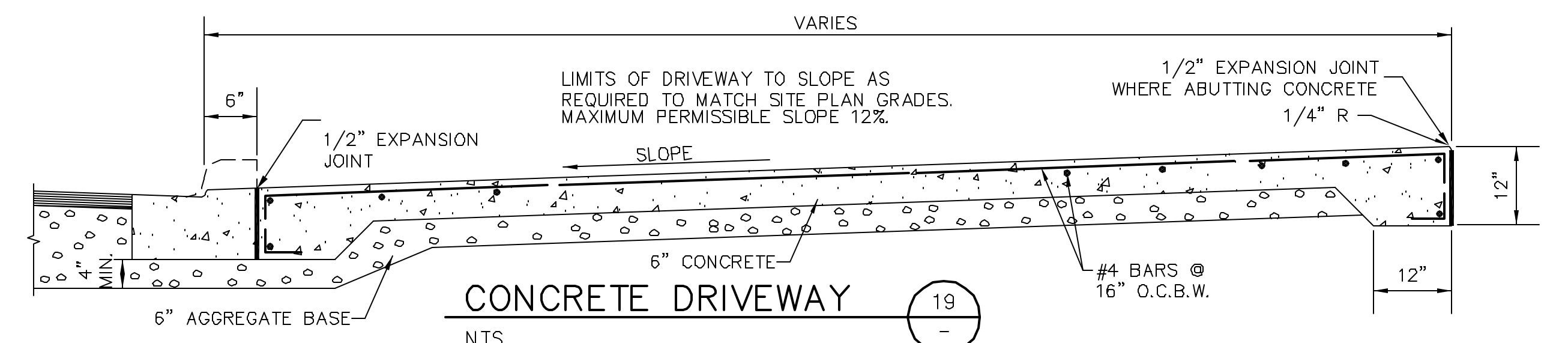
HEAVY ASPHALT PAVING SECTION (11) NTS



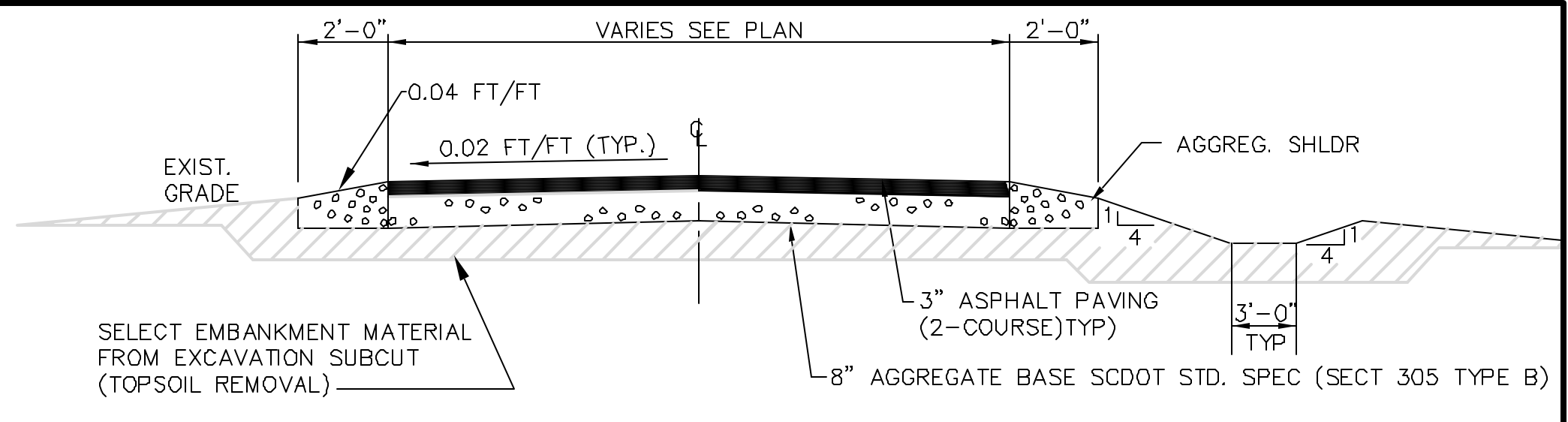
GRAVEL ROAD SECTION (12) NTS



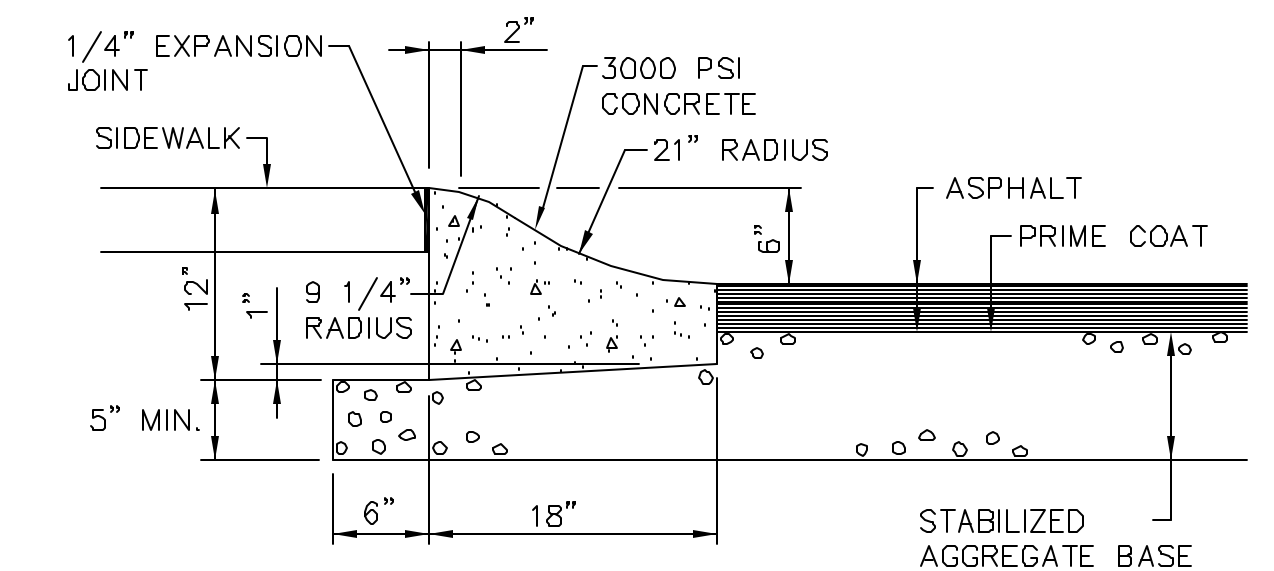
CURB GAP DETAIL (13) NTS



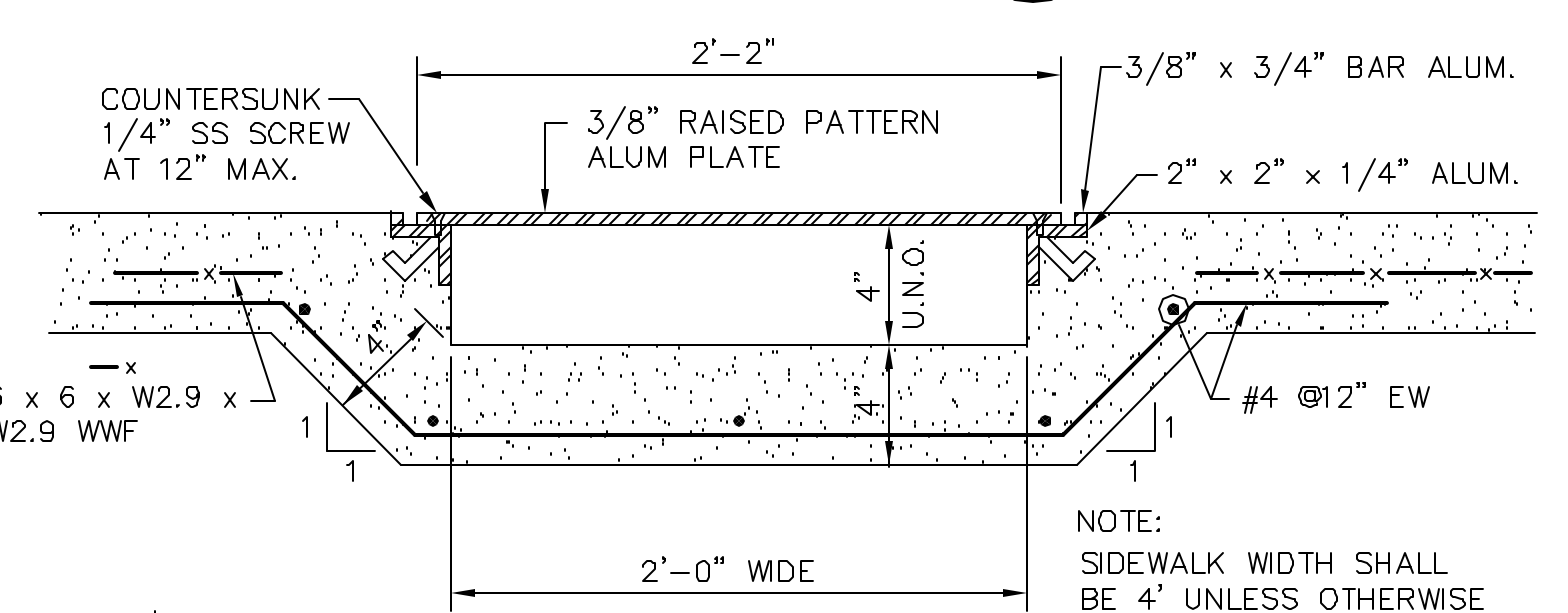
CONCRETE DRIVEWAY (14) NTS



TYPICAL ASPHALT ROAD SECTION (15) NTS



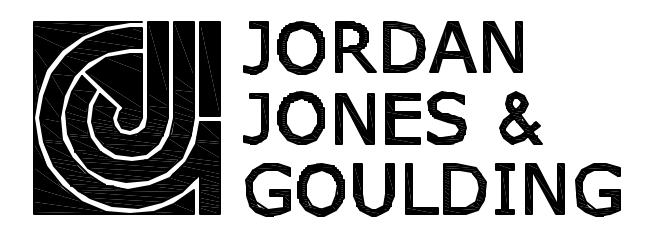
ROLL CURB & GUTTER (16) NTS



SIDEWALK DRAIN (17) NTS

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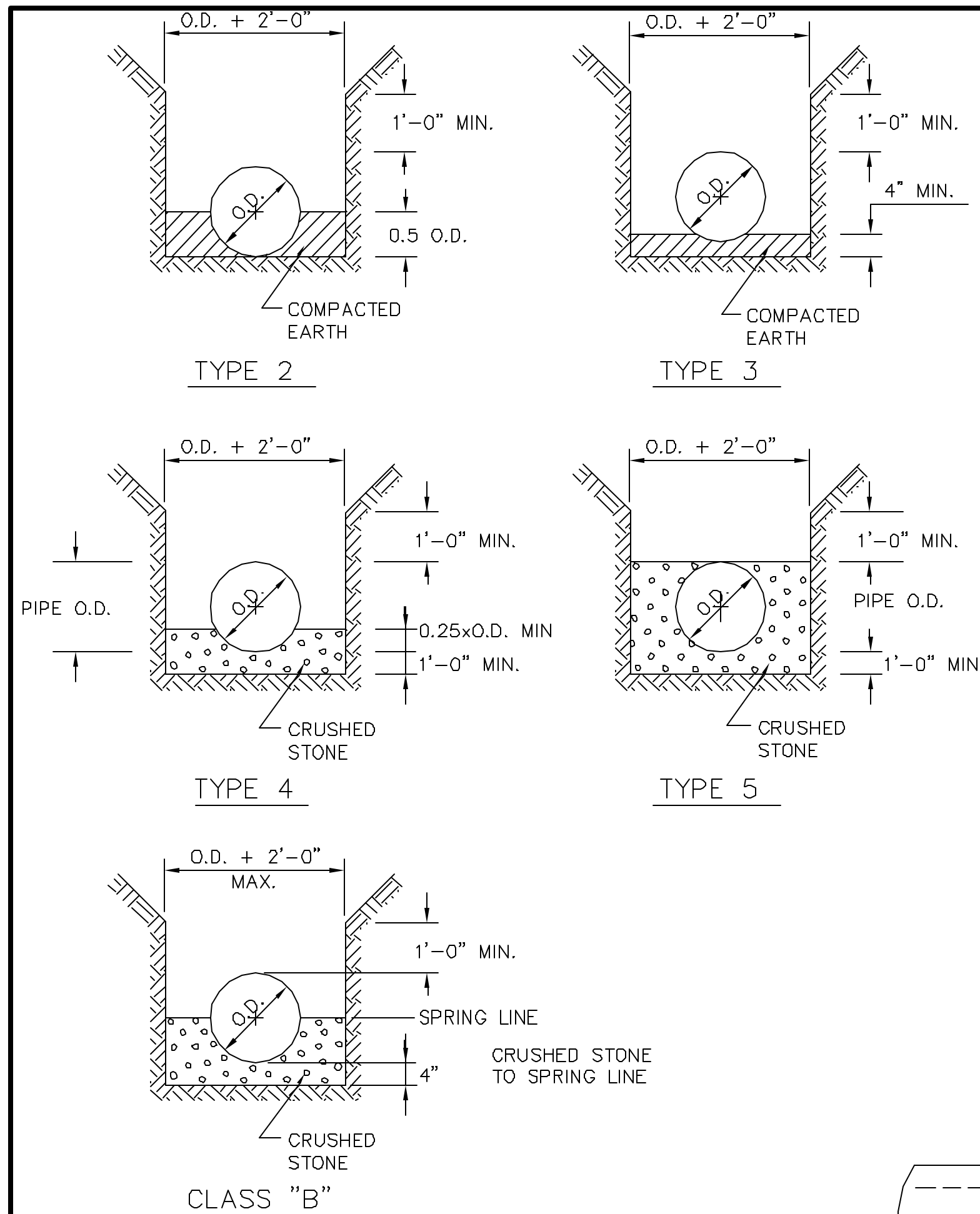
EXIT 29 WPCP EXPANSION PHASE 3

PAVING DETAILS

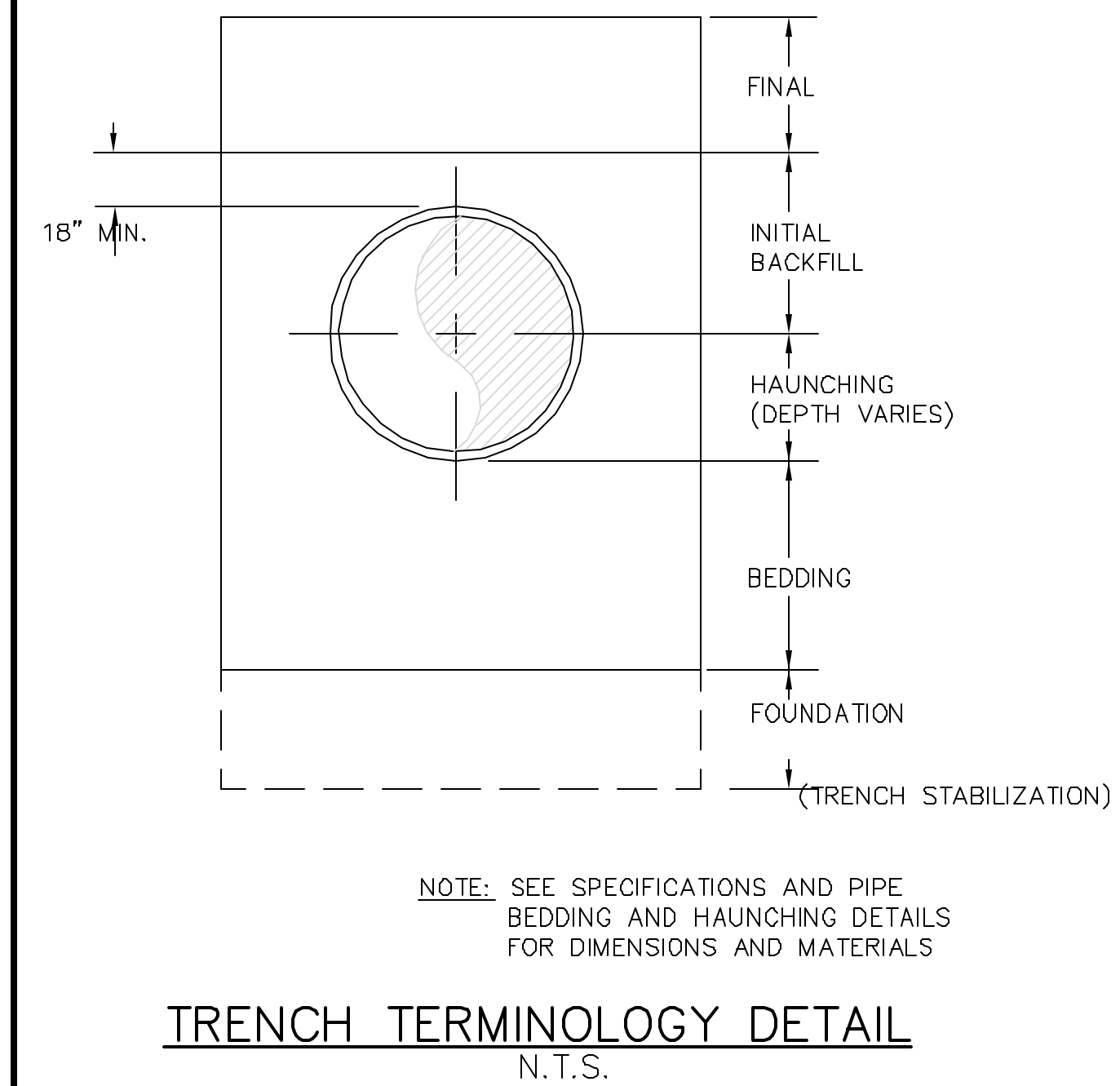
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DRAWN: KTH	JOB NO. 02018040	SCALE: AS SHOWN		

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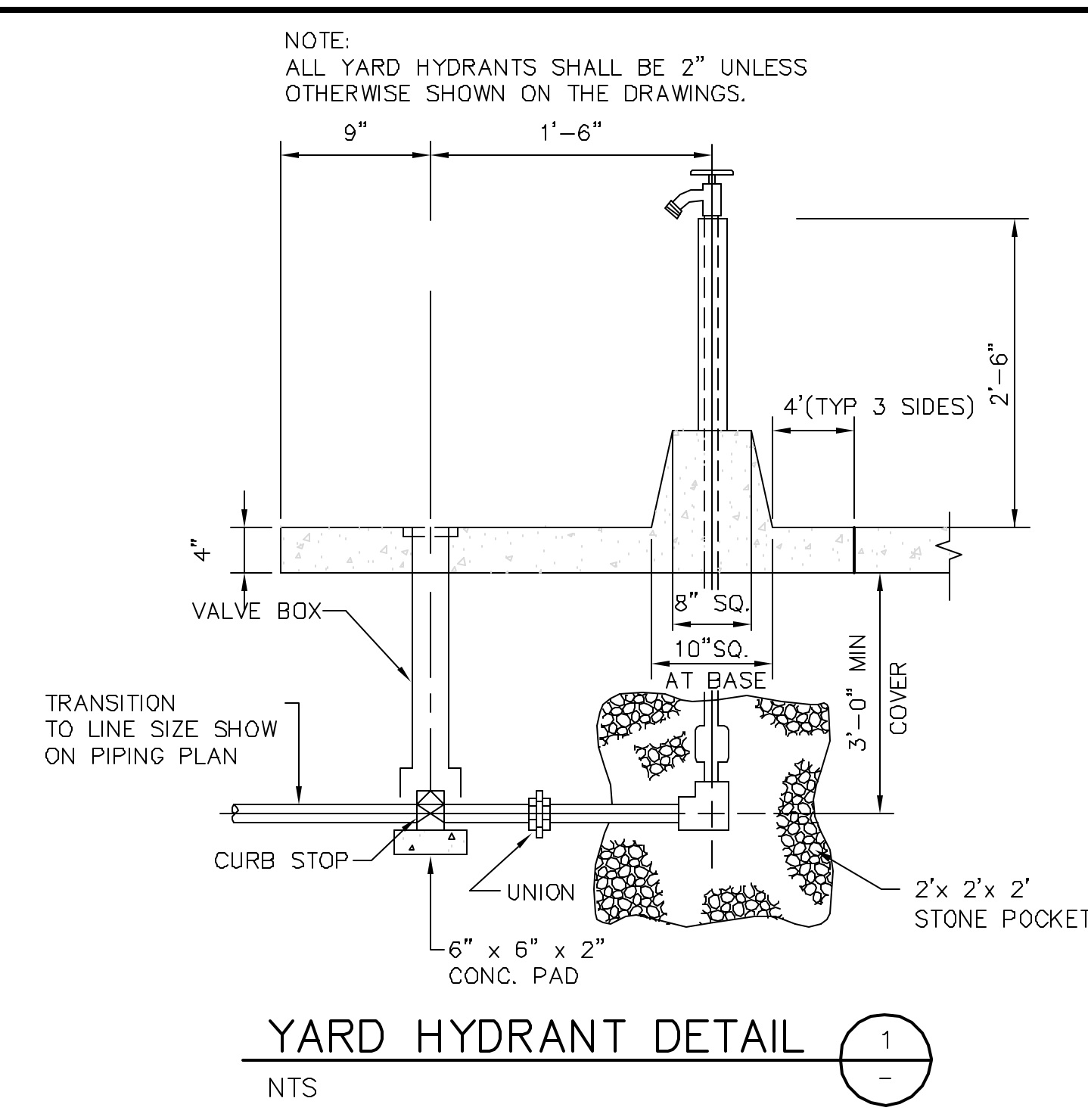


PIPE BEDDING AND HAUNCHING DETAILS
N.T.S.

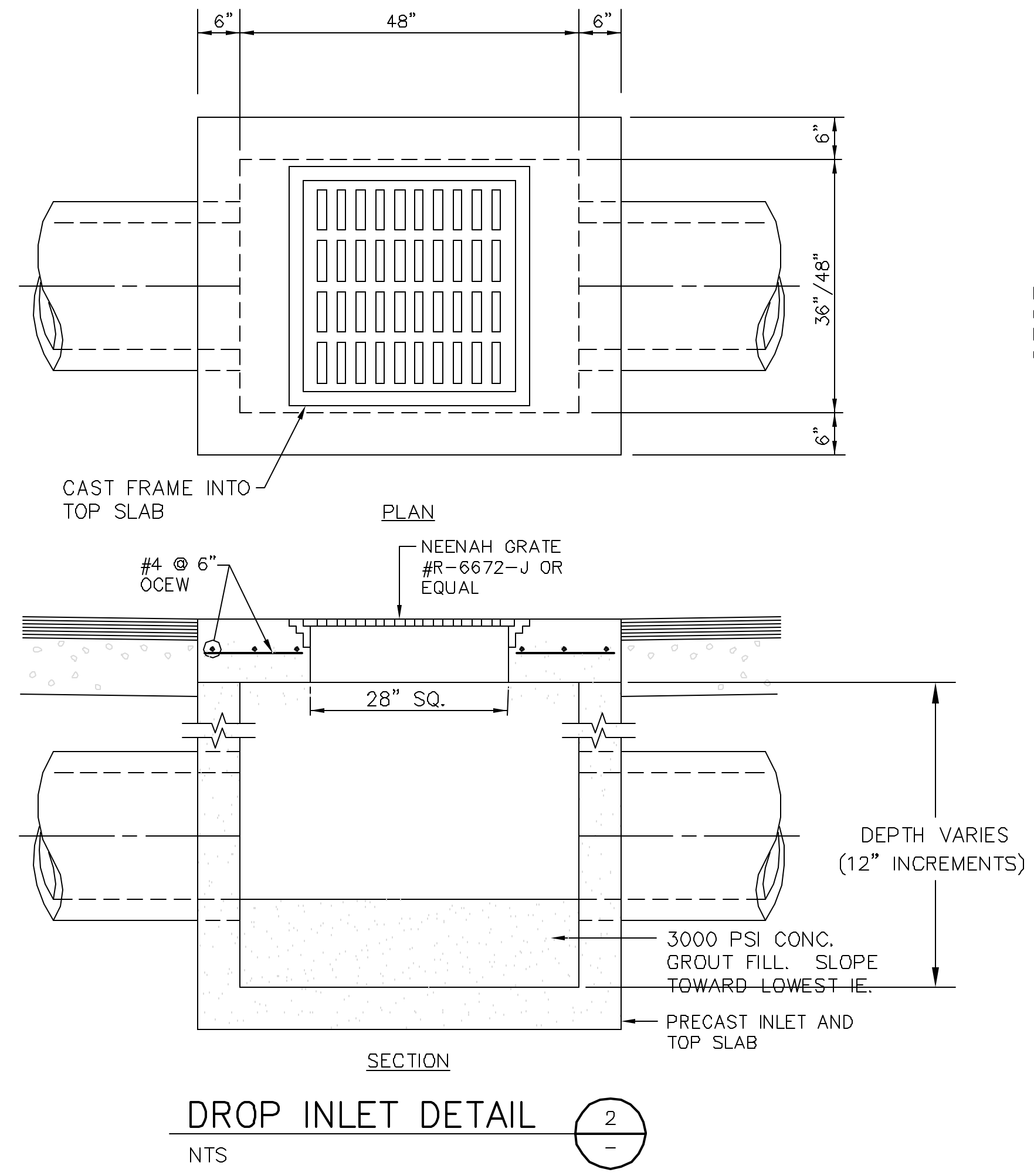


TRENCH TERMINOLOGY DETAIL
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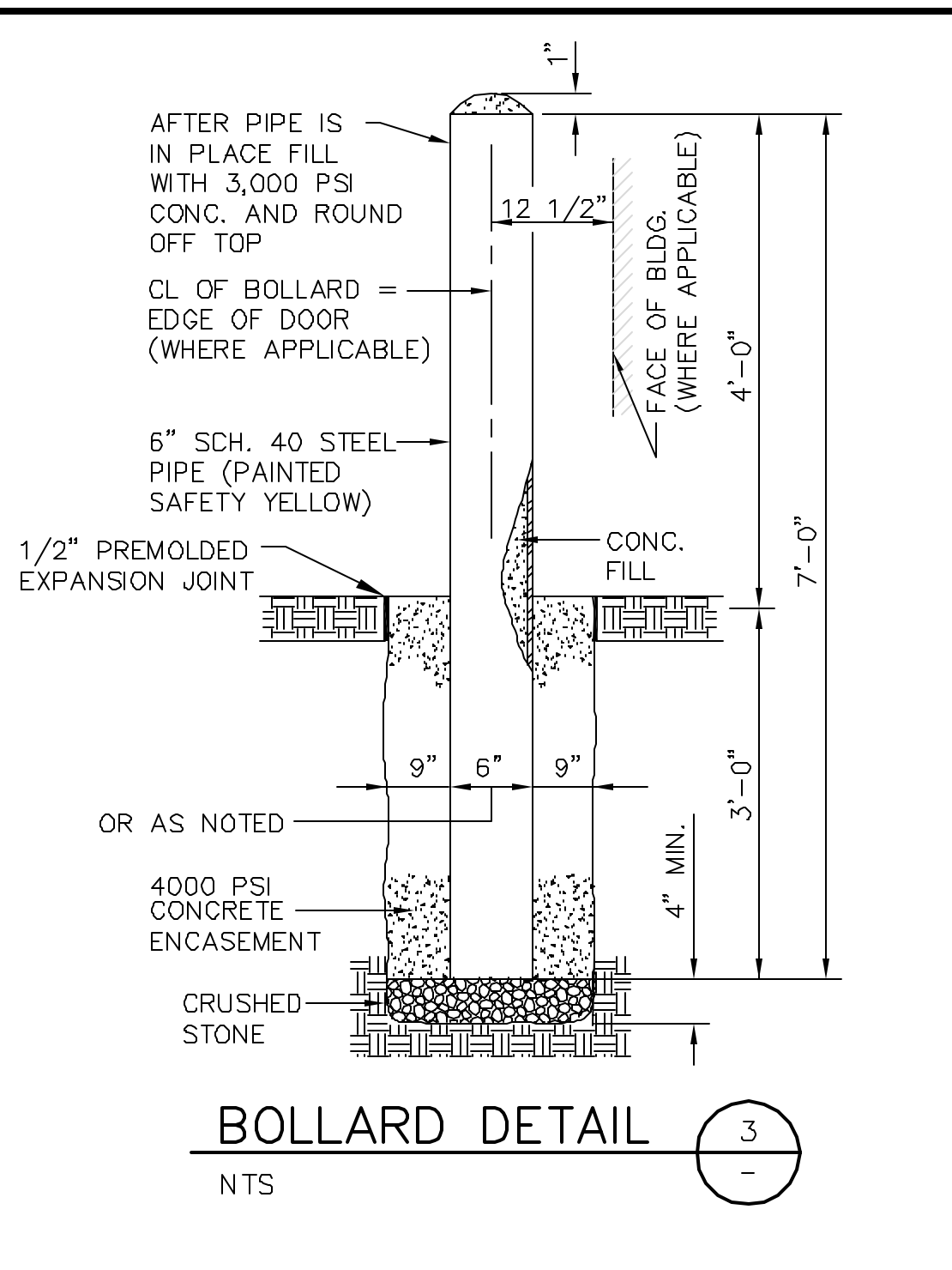
NOTE: SEE SPECIFICATIONS AND PIPE BEDDING AND HAUNCHING DETAILS FOR DIMENSIONS AND MATERIALS



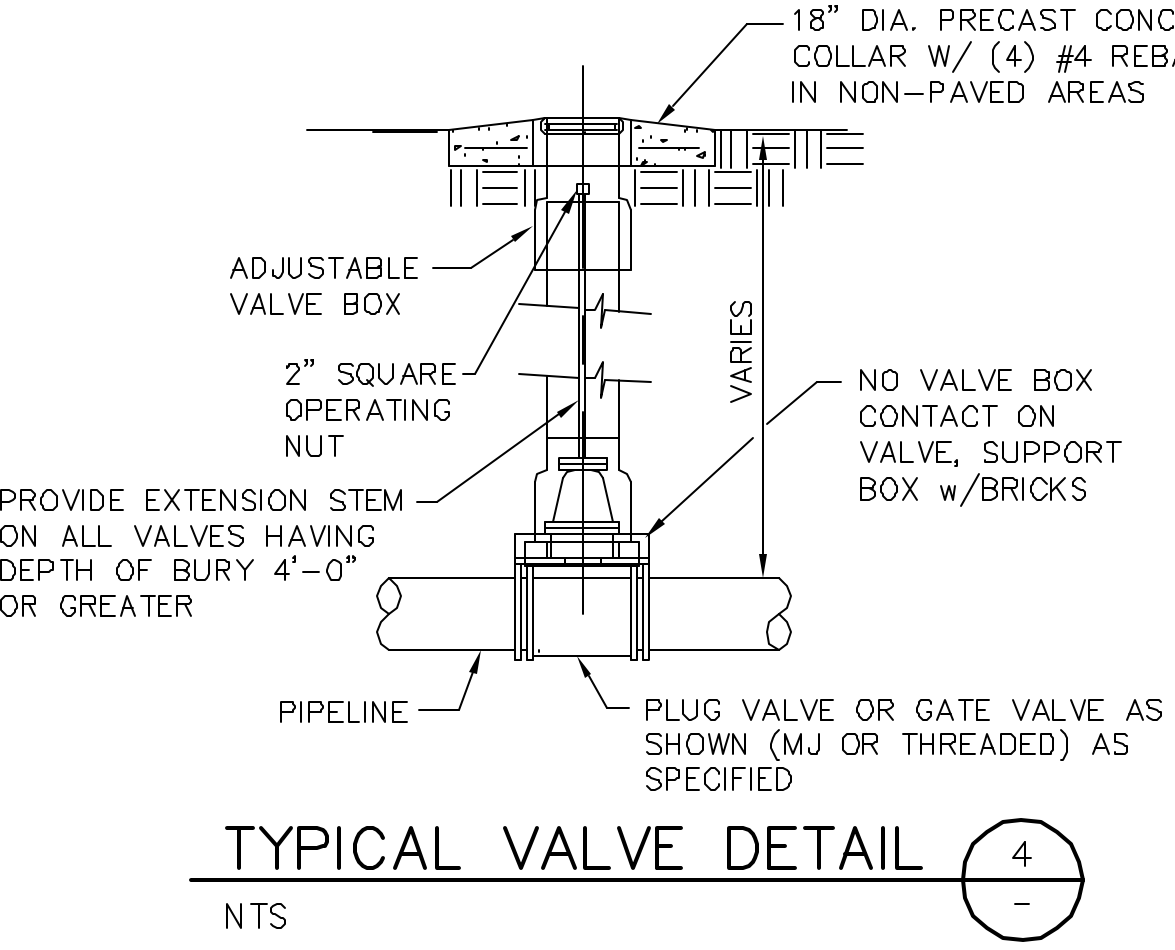
YARD HYDRANT DETAIL (1)
NTS



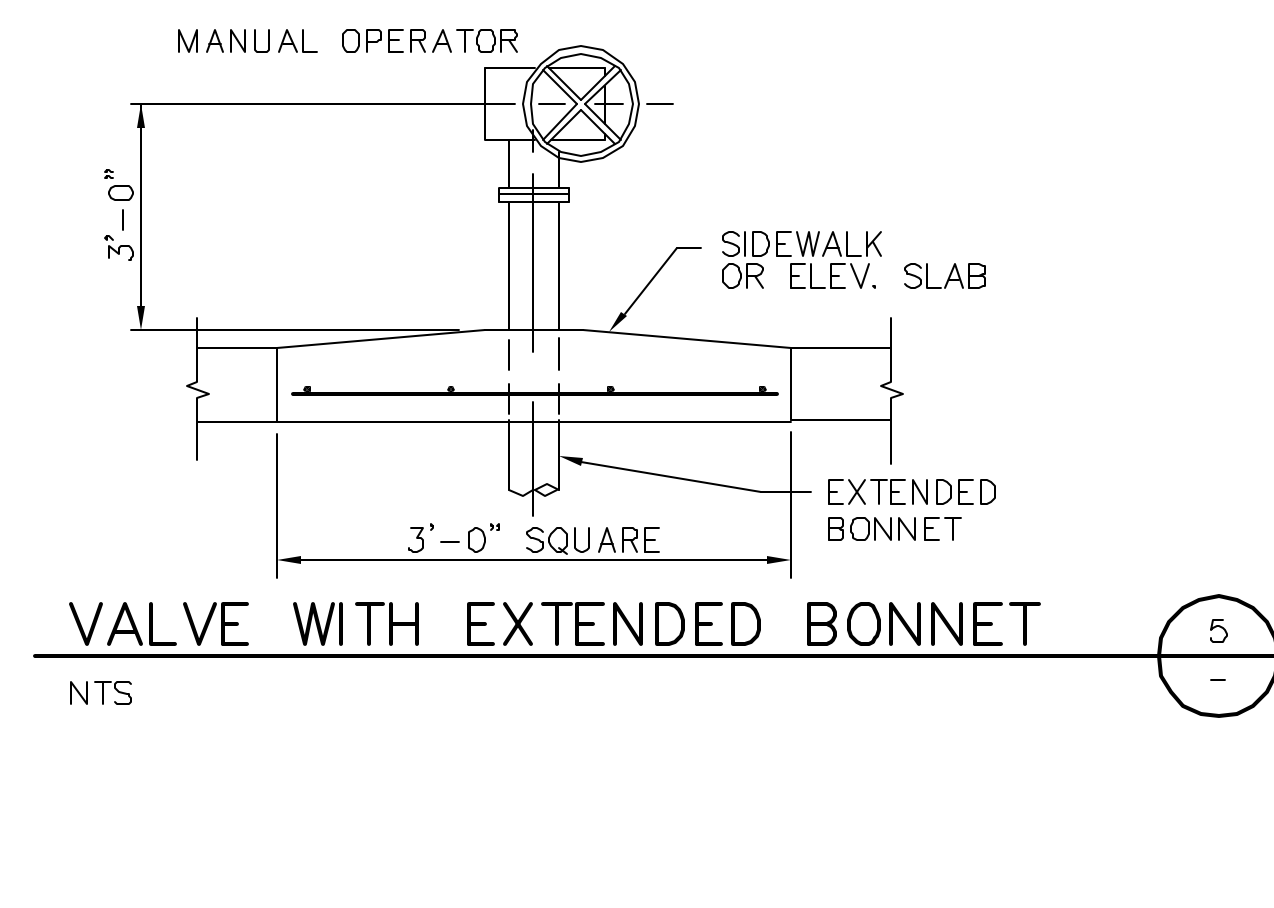
DROP INLET DETAIL (2)
NTS



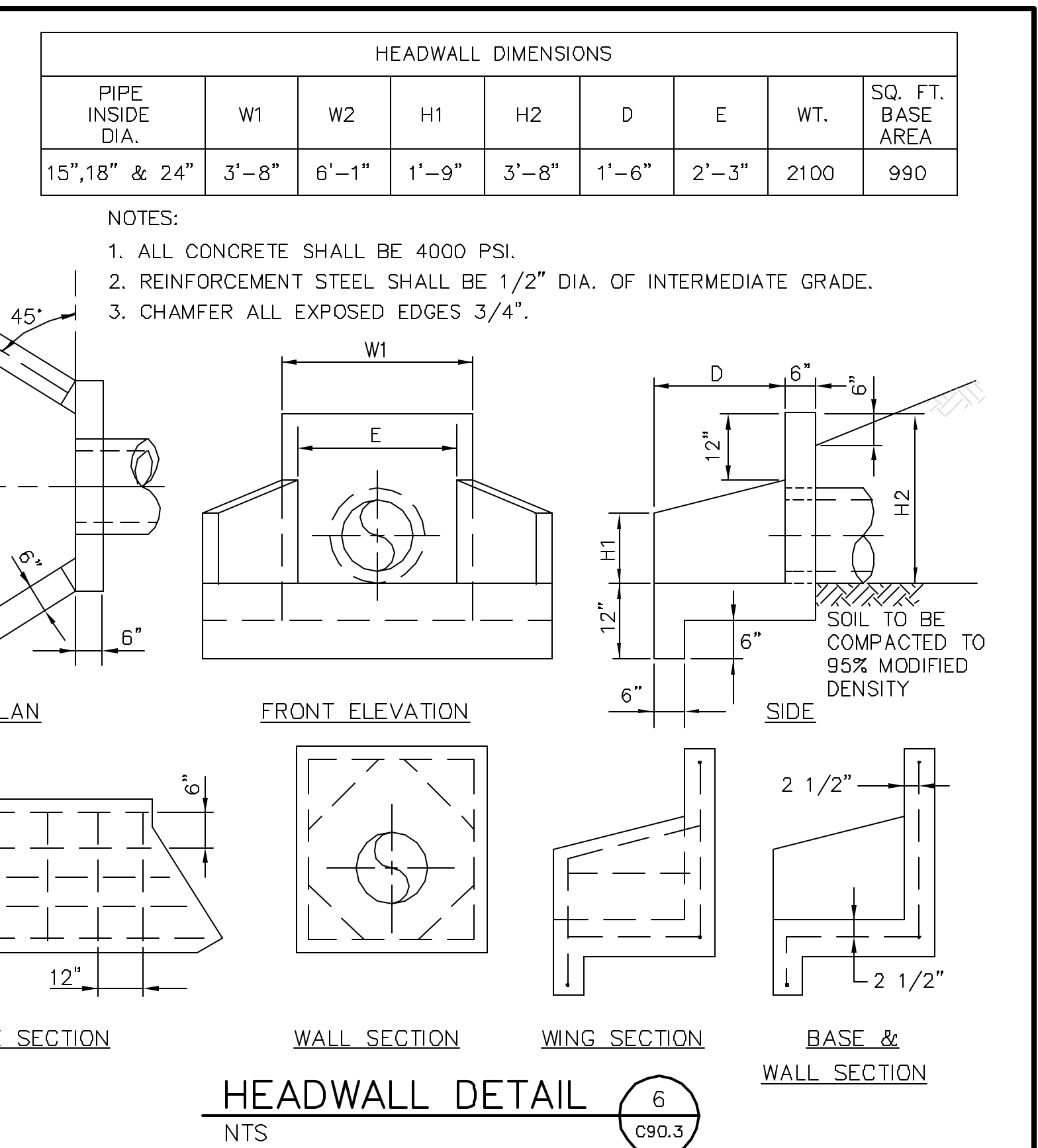
BOLLARD DETAIL (3)
NTS



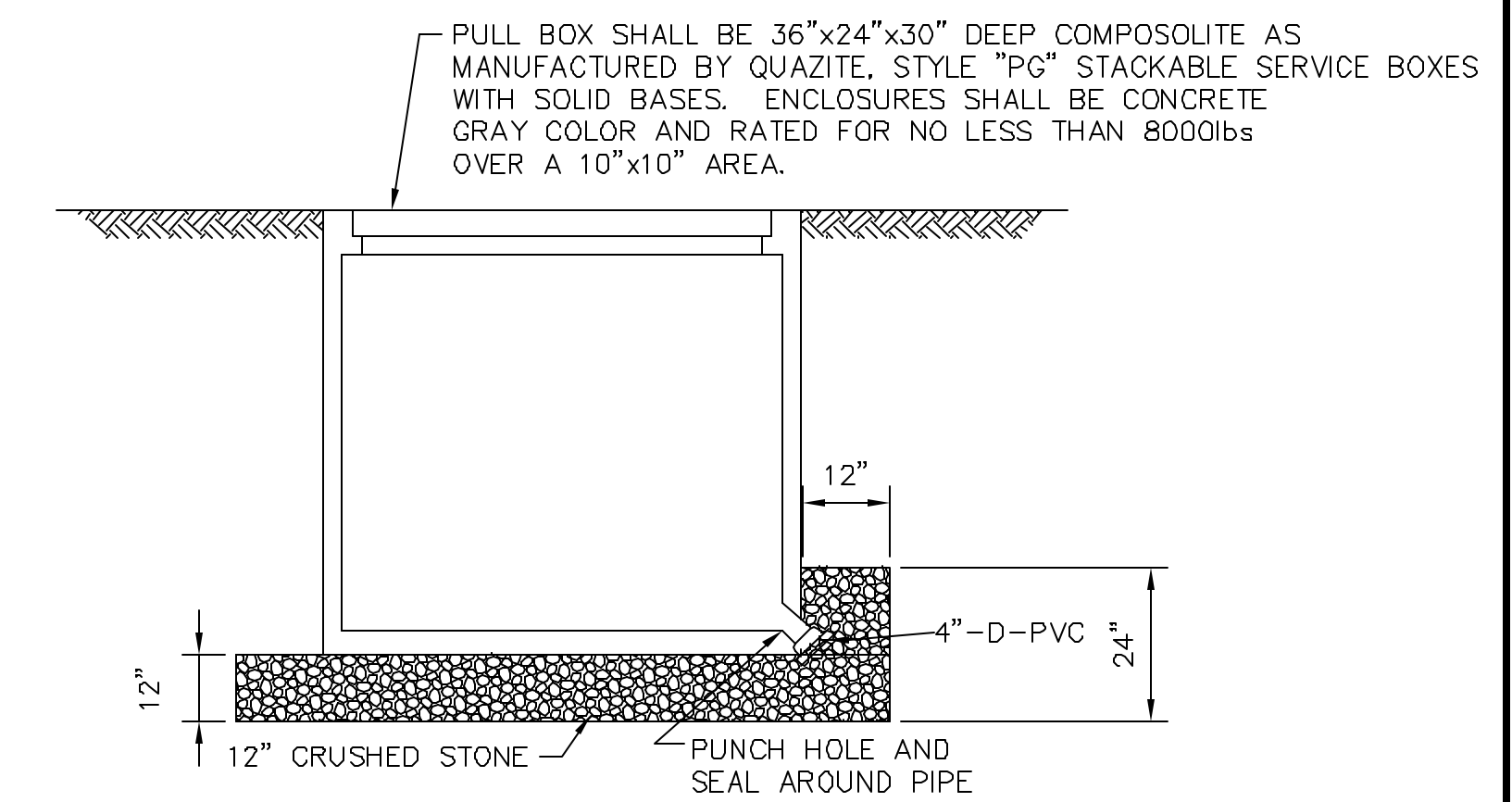
TYPICAL VALVE DETAIL (4)
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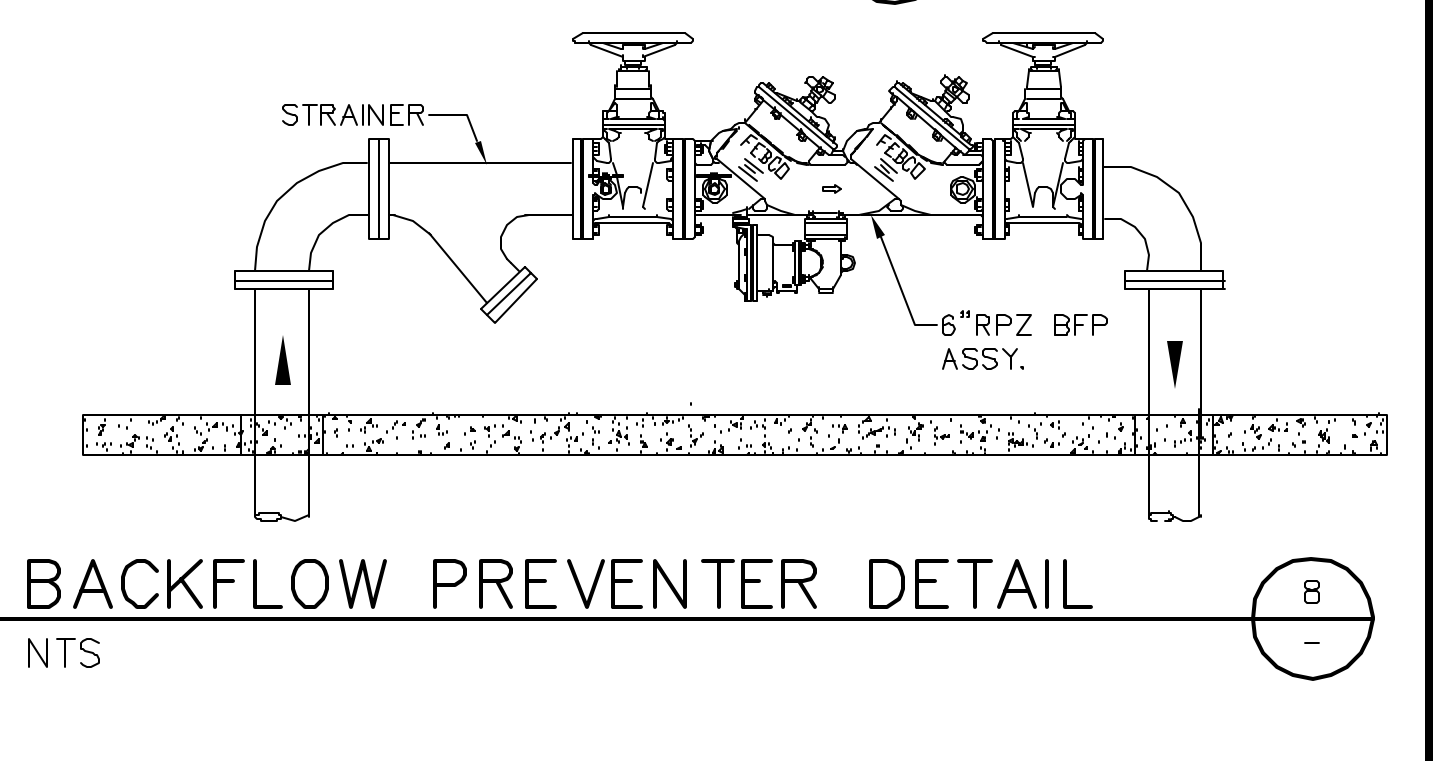
VALVE WITH EXTENDED BONNET (5)
NTS



HEADWALL DETAIL (6)
NTS



PULL BOX DETAIL (7)
NTS

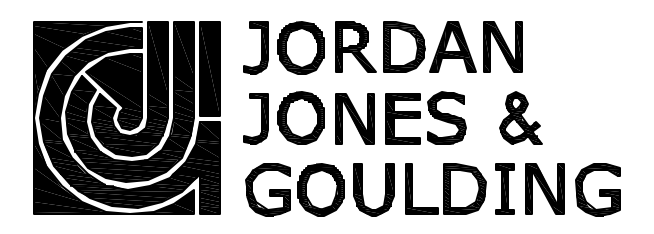


BACKFLOW PREVENTER DETAIL (8)
NTS

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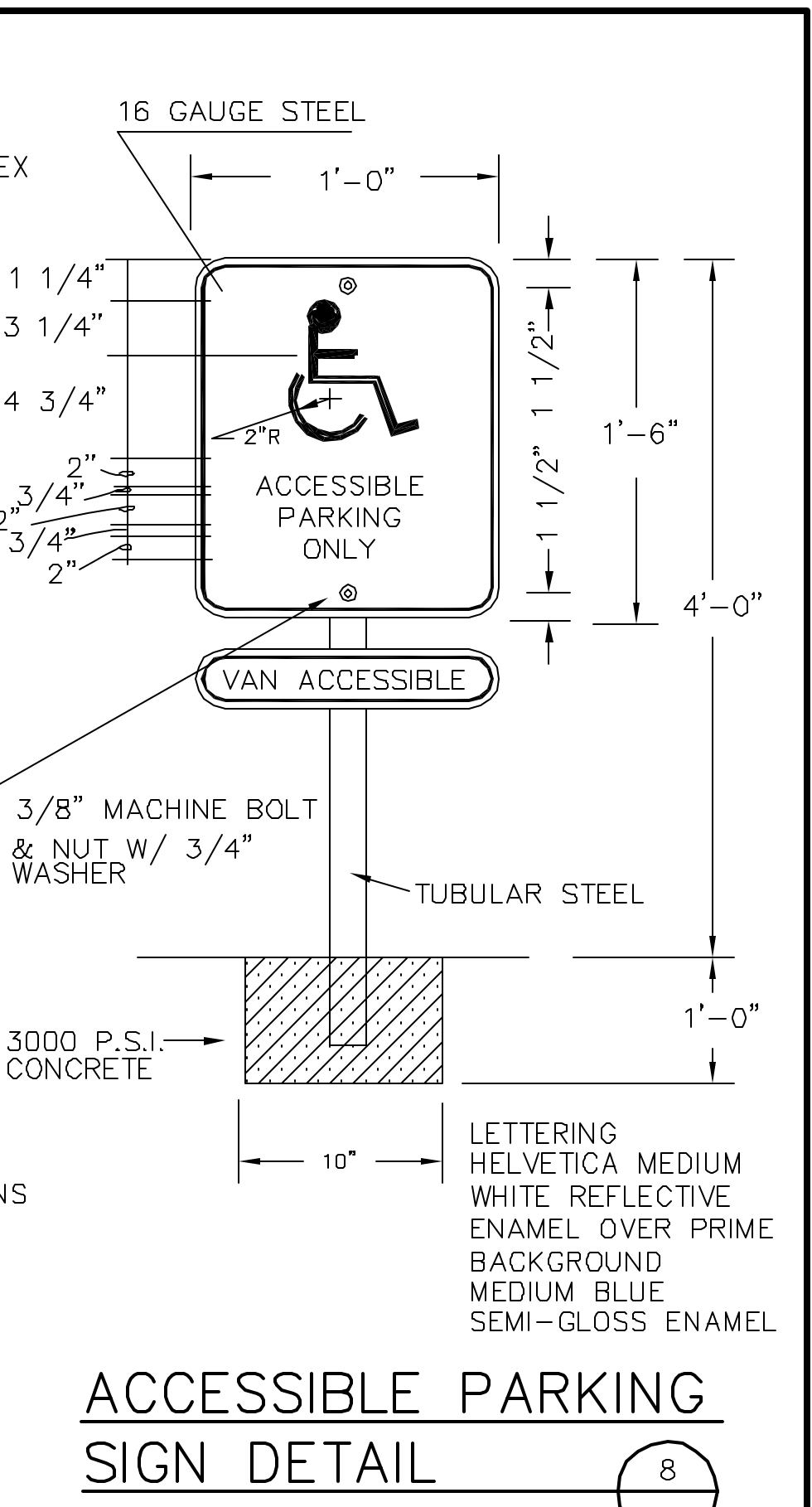
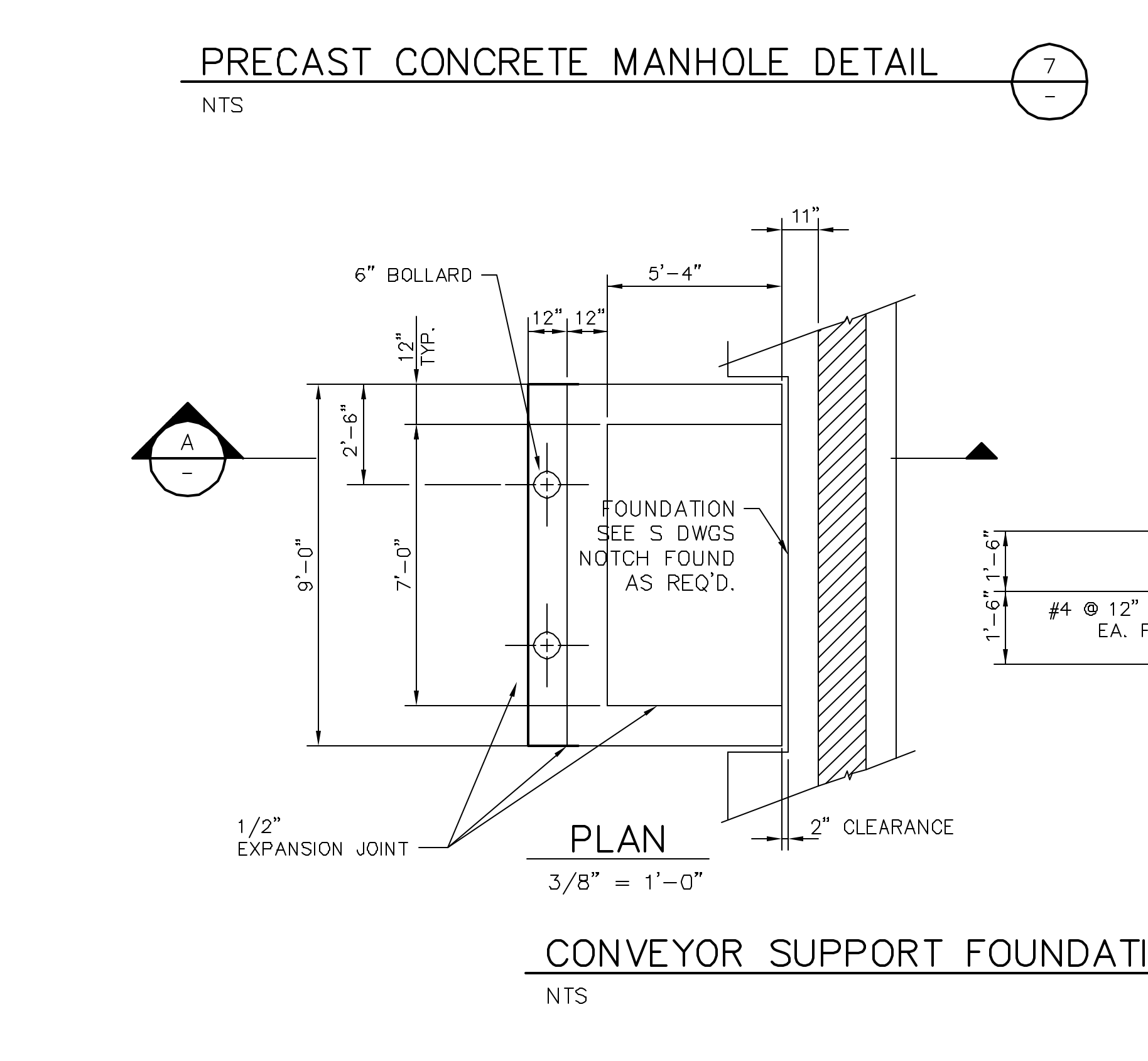
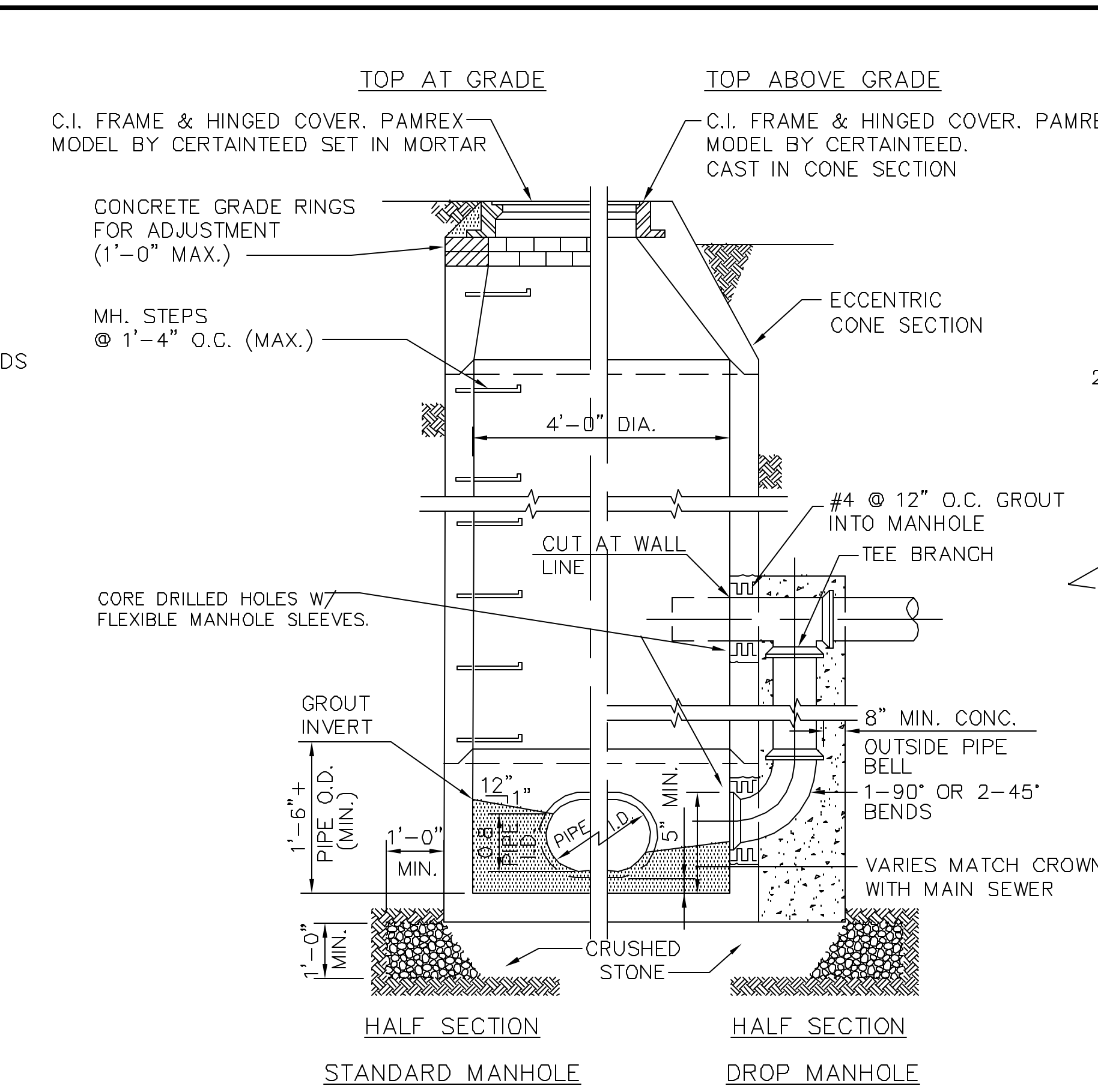
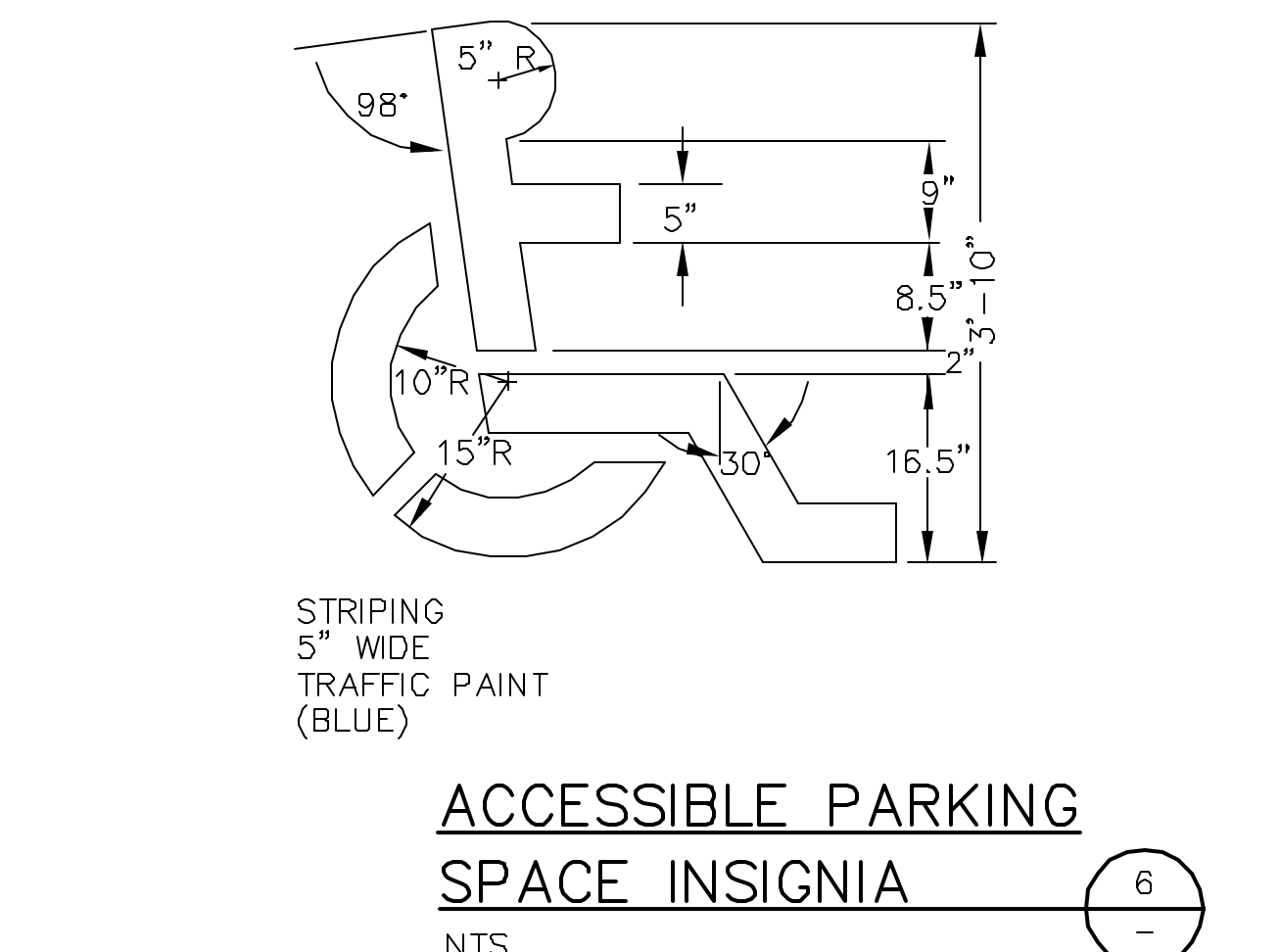
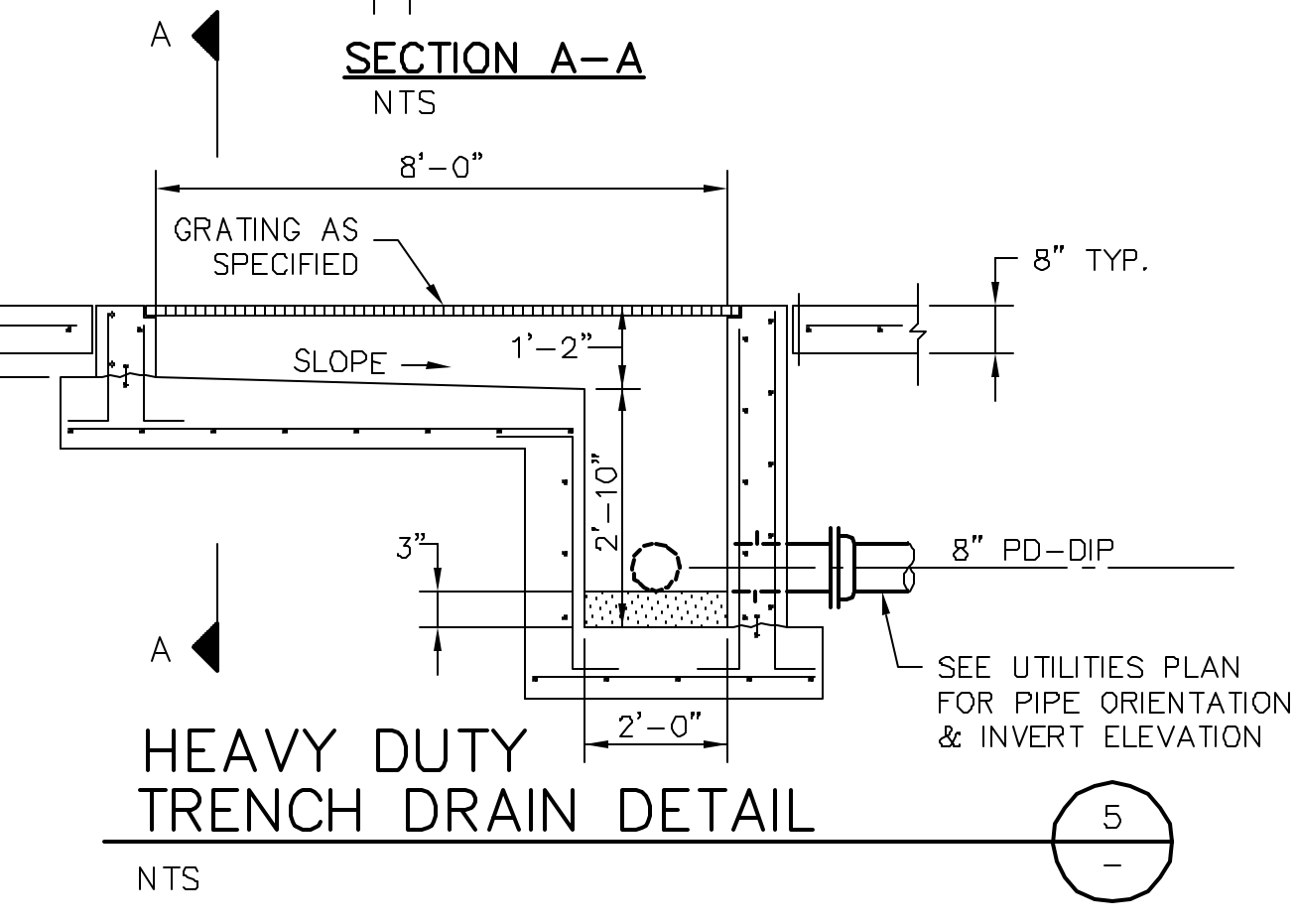
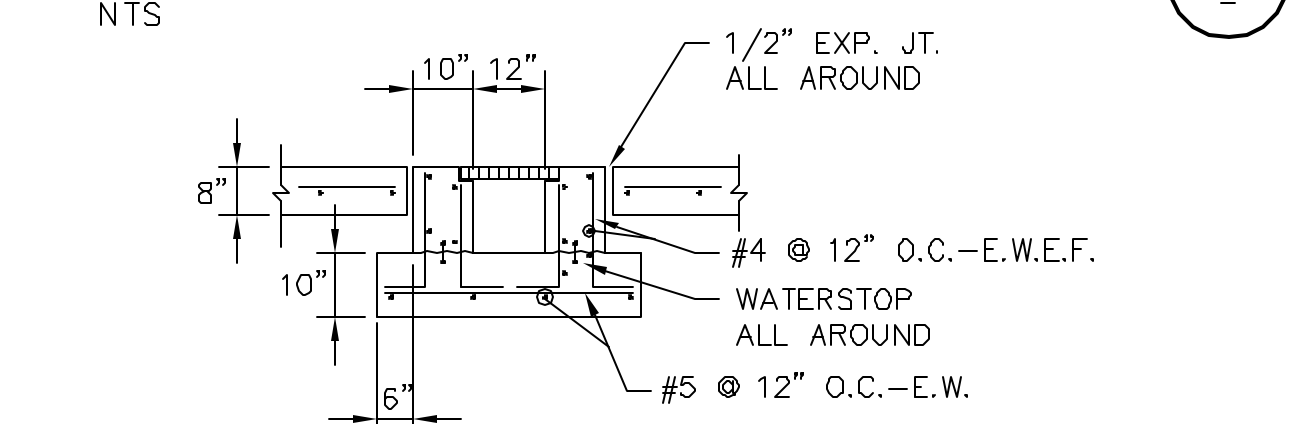
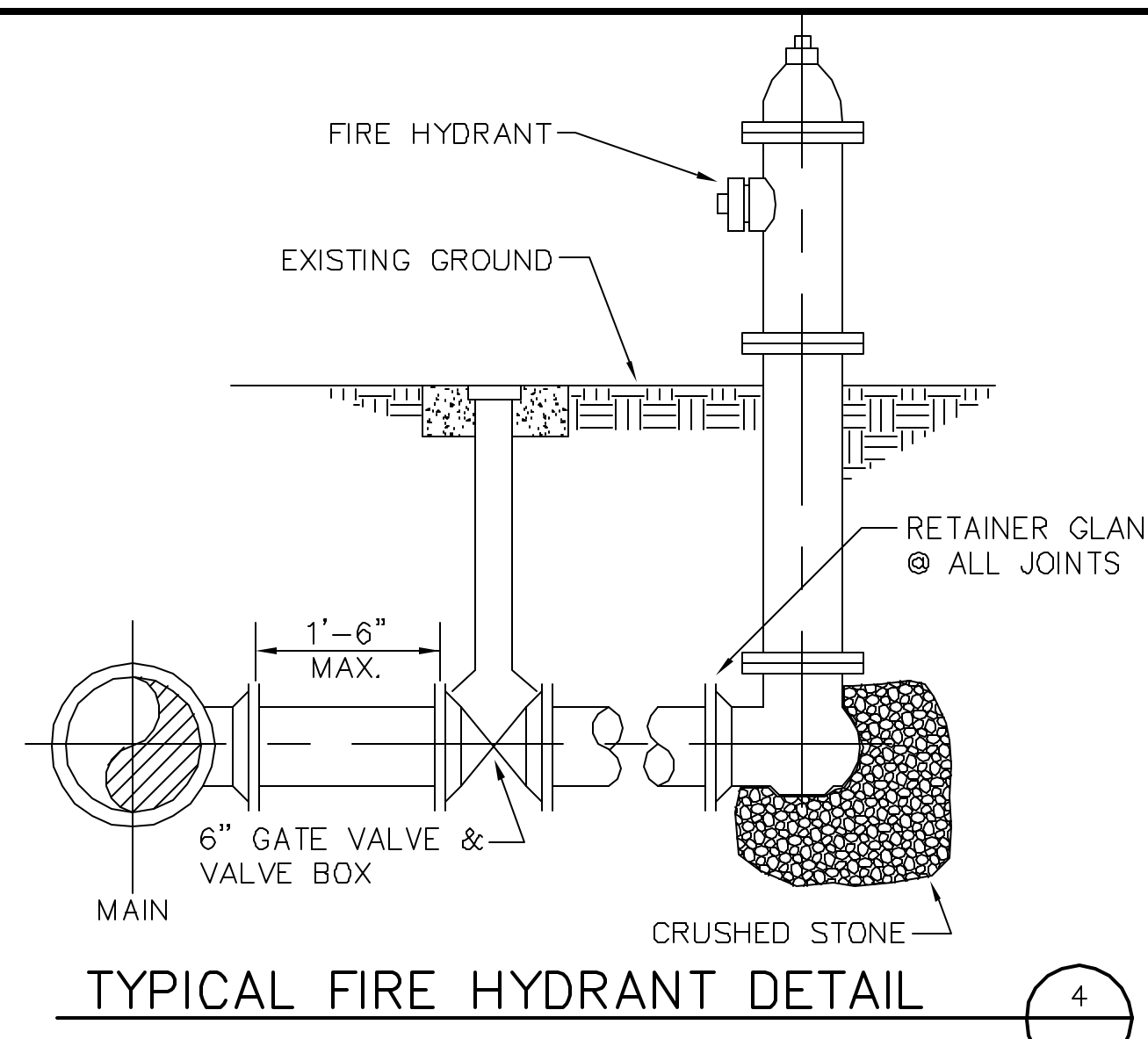
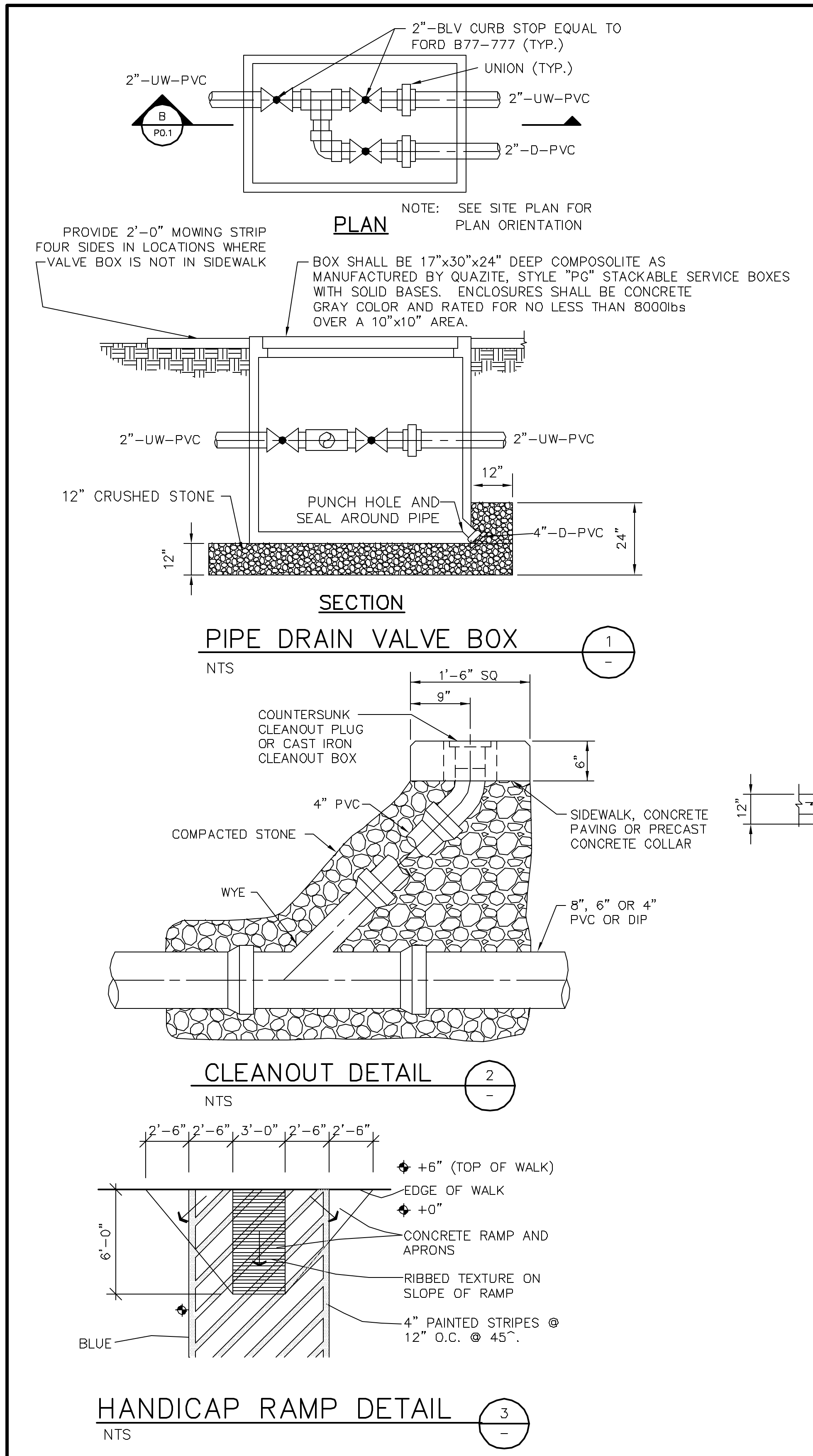


EXIT 29 WPCP EXPANSION PHASE 3

UTILITY DETAILS

DESIGNED: WWK	CHECKED:	DATE: MAY 2008	C90.2	R
DRAWN: KTH	JOB NO. 02018040	SCALE: AS SHOWN	SHEET	REV

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GLYNN COUNTY GEORGIA

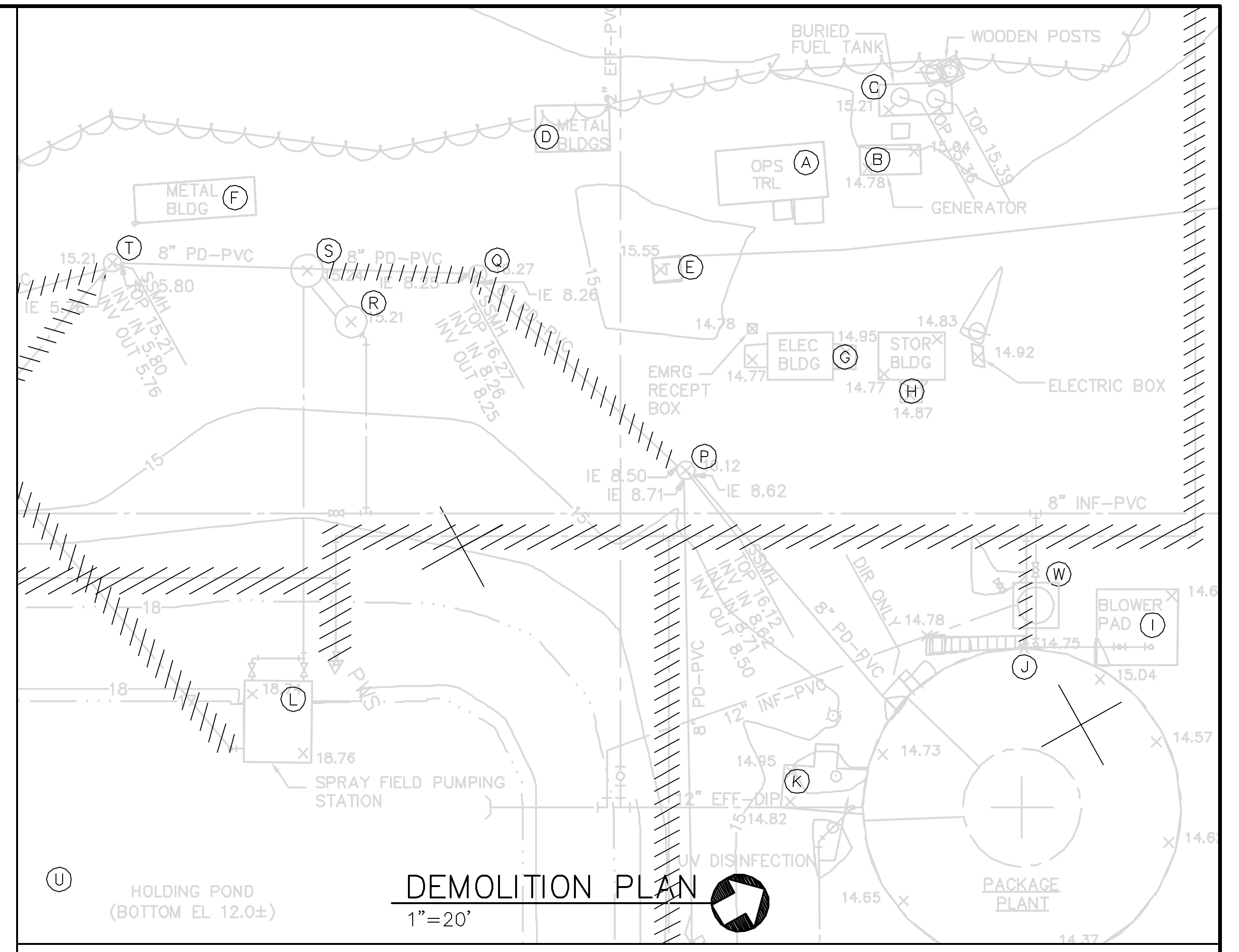
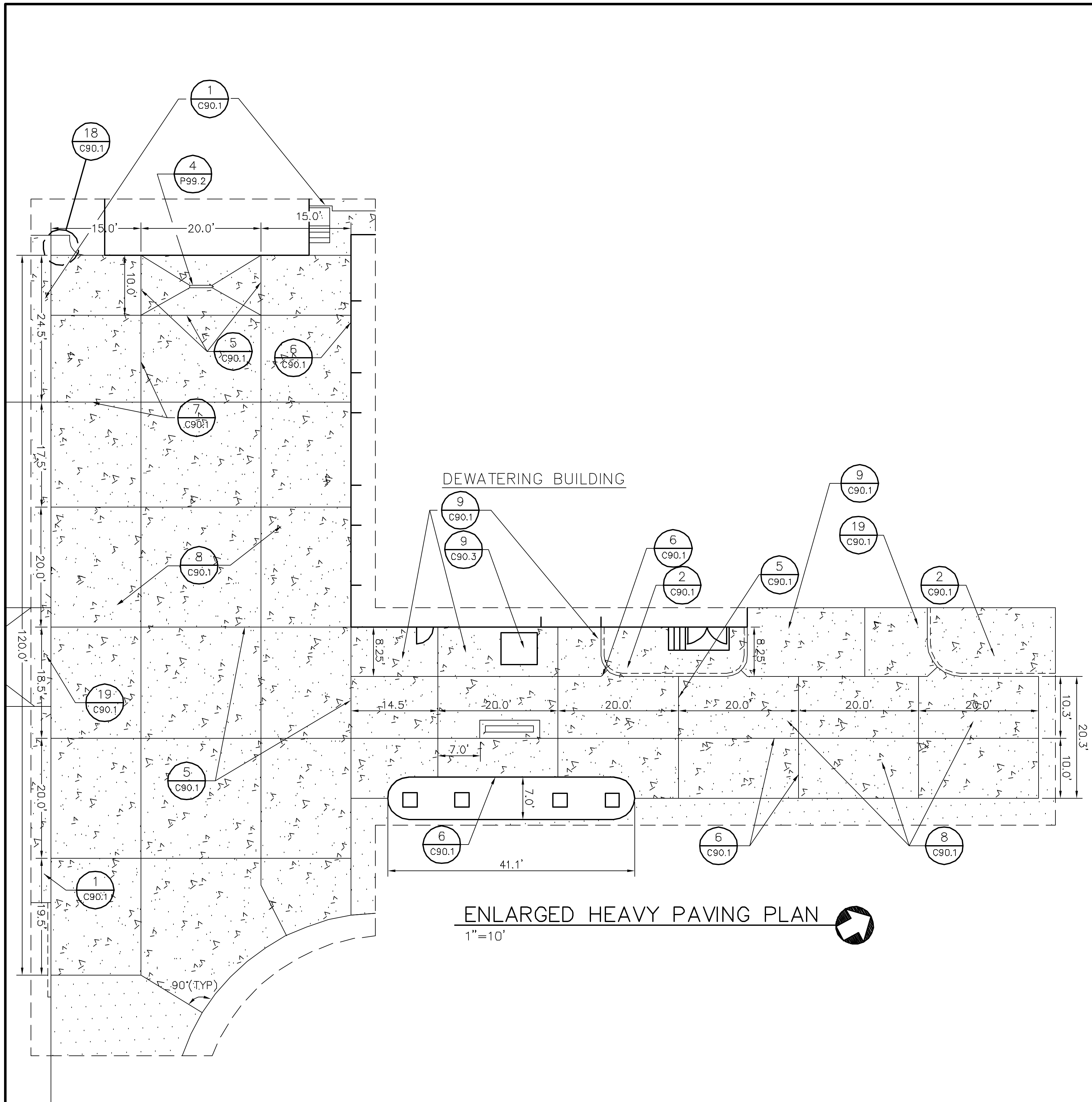
EXIT 29 WPCP EXPANSION PHASE 3

UTILITY DETAILS

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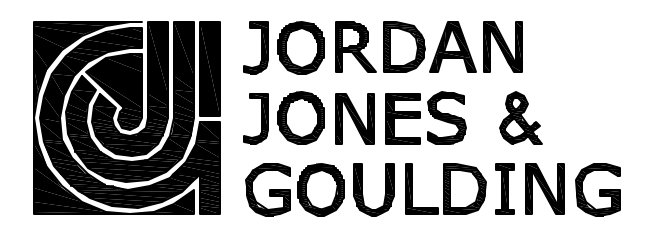
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- DEMOLITION NOTES:**
1. REFER TO SPECIFICATION SECTION D1011 FOR SPECIFIC DEMOLITION DETAILS AND REQUIREMENTS.
 2. ALL HATCHED PIPE SHOWN TO BE ABANDONED OR REMOVED AS NECESSARY.
 3. REMOVE LINER FROM AROUND PERIMETER TO BOTTOM OF HOLDING POND (U) AND FILL IN PER CG1.1 UPON COMPLETION OF PHASE 3 CONSTRUCTION.
 4. DEMO EXISTING STRUCTURES (L), (K) AND (I) IN THEIR ENTIRETY UPON COMPLETION OF PHASE 3 CONSTRUCTION. REFER TO SUPPLEMENTAL REFERENCE RECORD DRAWINGS.
 5. DEMO STRUCTURE (W) IN ENTIRETY UPON COMPLETION OF PHASE 3 CONSTRUCTION.
 6. REFER TO CONTRACT ELECTRICAL DRAWINGS AND SPECIFICATION SECTIONS 16040, 01011 FOR DEMOLITION AND SEQUENCING OF STRUCTURE (G) AND ELECTRICAL EQUIPMENT ITEMS (B), (C) AND (E).
 7. ITEM (C) REMOVED IN ACCORDANCE WITH ALL STATE AND FEDERAL REGULATIONS.
 7. COORDINATE REMOVAL OF STRUCTURES (A), (D), (F) AND (H) FROM SITE WITH OWNER/OPERATOR.
 8. SAND DRYING BEDS NOT SHOWN ON THIS PLAN. DRYING BEDS AND ASSOCIATED DRAINAGE PIPING TO REMAIN IN SERVICE FOR OWNER/OPERATOR USE.
 9. WETWELL (S), VALVE VAULT (R) AND MANHOLE (T) TO REMAIN IN SERVICE AFTER COMPLETION OF PHASE 3 CONSTRUCTION. ABANDONED EXISTING LINES ENTERING WETWELL AND MANHOLE TO BE REMOVED AND PENETRATIONS PLUGGED WITH NON-SHRINK GROUT.
 10. DEMO MAHOLE (Q) AND ASSOCIATED PIPING AFTER MANHOLE 1-C (REF DWG CU1.1) AND NEW DRAINS TO DRAINAGE PUMPING STATION COMPLETE.

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EXIT 29 WPCP EXPANSION PHASE 3			
ENLARGED HEAVY PAVING PLAN AND SITE DEMOLITION PLAN			
DESIGNED: RFH/SB	CHECKED:	DATE: MAY 2008	C90.4
DRAWN: SBF	JOB NO. 02018040	SCALE: AS SHOWN	R
			REV

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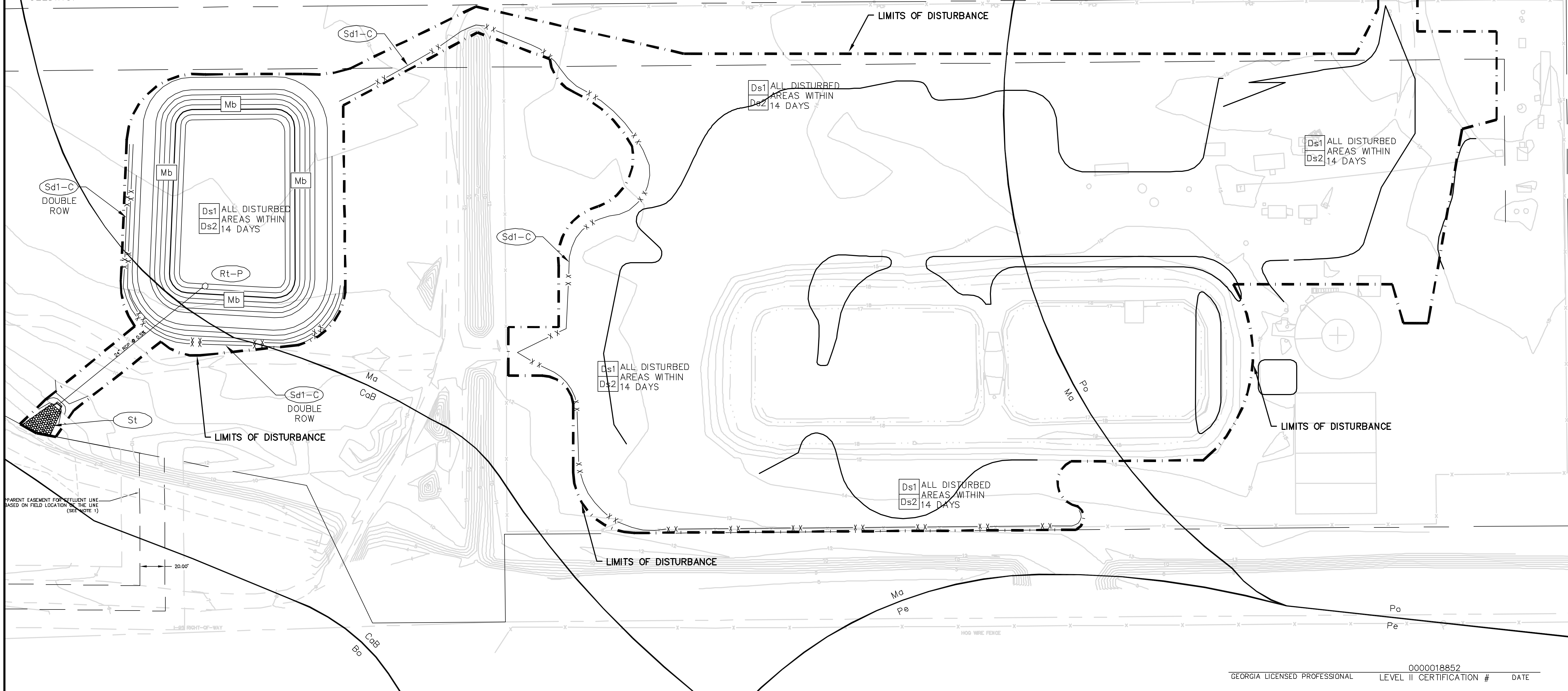
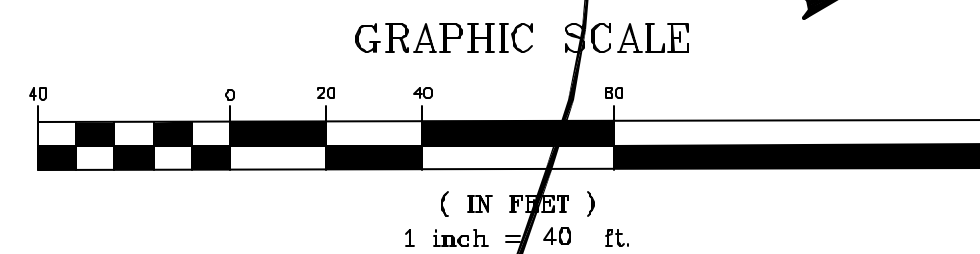
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EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL TREAT THE SEDIMENT SOURCE.

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.



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DESIGNED: KAK
 DRAWN: DLB

CHECKED:
 JOB NO. 02018040

DATE: MAY 2008
 SCALE: 1"=40'
 CE1.1 SHEET
 R REV

0000018852
 GEORGIA LICENSED PROFESSIONAL LEVEL II CERTIFICATION # DATE

WILLIAM WHEELER

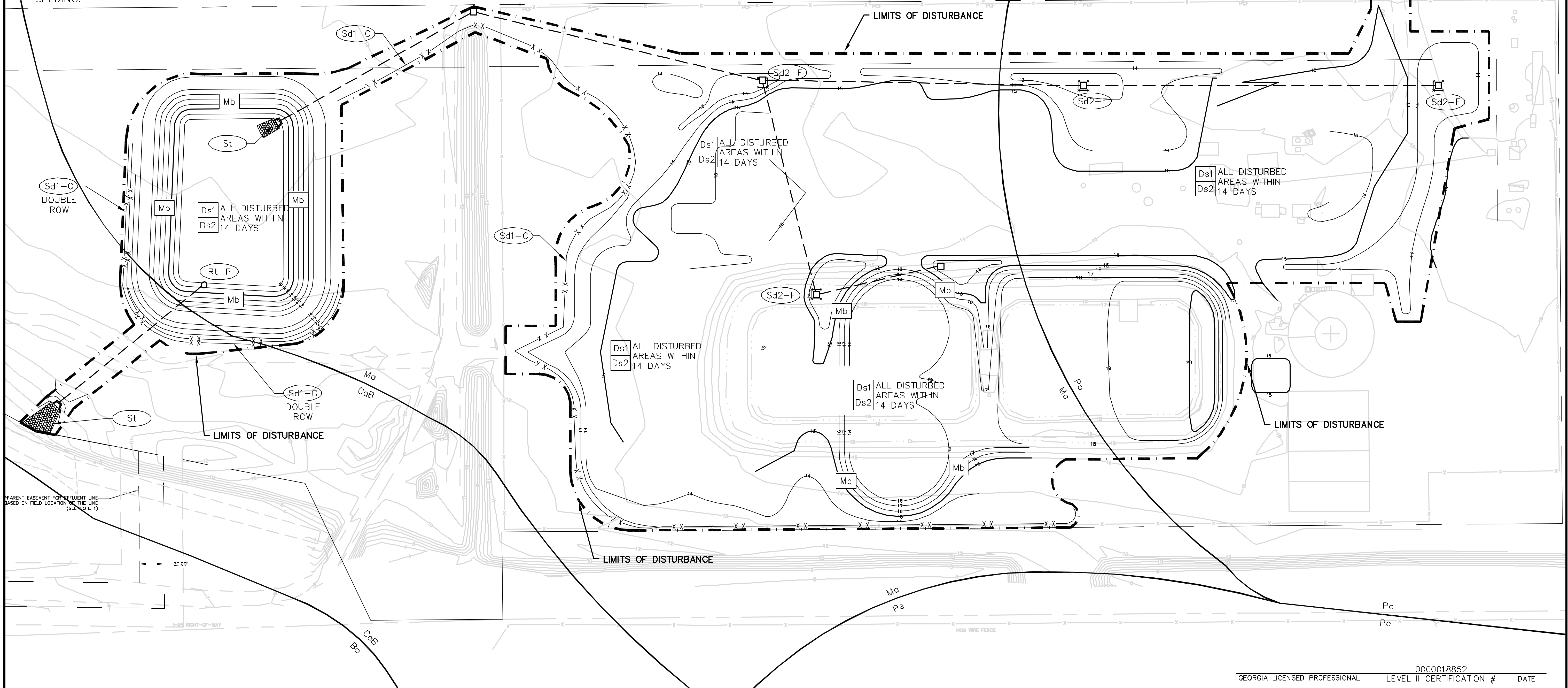
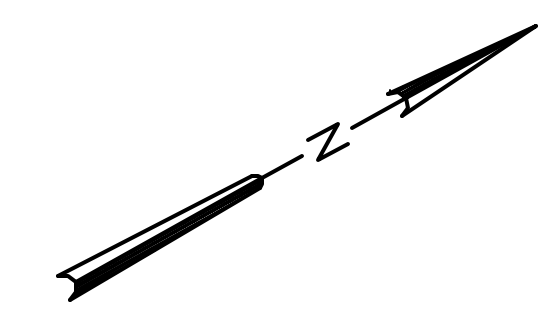
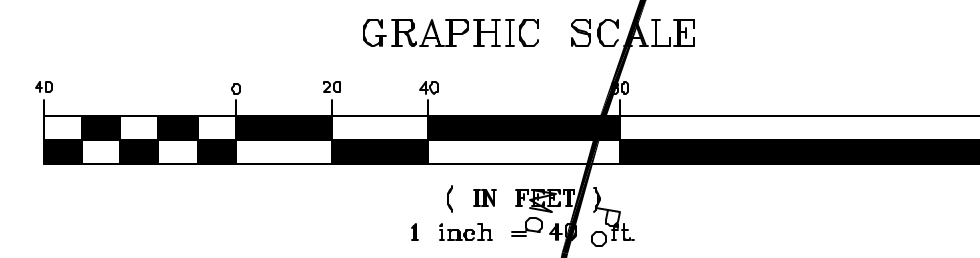
THIS LINE IS ONE INCH LONG WHEN PLOTTED FULL SCALE

EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL TREAT THE SEDIMENT SOURCE.

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

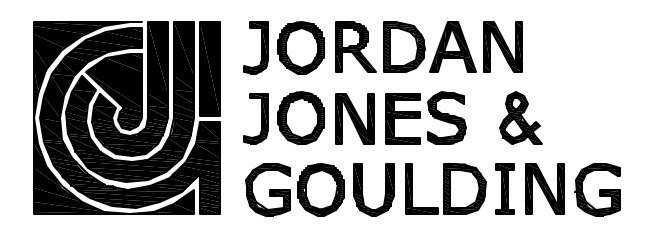


PARENT EASEMENT FOR EFFLUENT LINE BASED ON FIELD LOCATION OF THE LINE (SEE NOTE 1)

WILLIAM WHEELER

NOTES:
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NO.	DATE	DESCRIPTION OF REVISION
R	10-26-10	RECORD DRAWINGS
O	05-09-08	INITIAL ISSUE



0000018852
 GEORGIA LICENSED PROFESSIONAL LEVEL II CERTIFICATION # DATE

EXIT 29 WPCP EXPANSION PHASE 3			
IIINTERMEDIATE EROSION CONTROL PLAN			
DESIGNED: KAK	CHECKED:	DATE: MAY 2008	CE1.2
DRAWN: DLB	JOB NO. 02018040	SCALE: 1"=40'	R
			REV

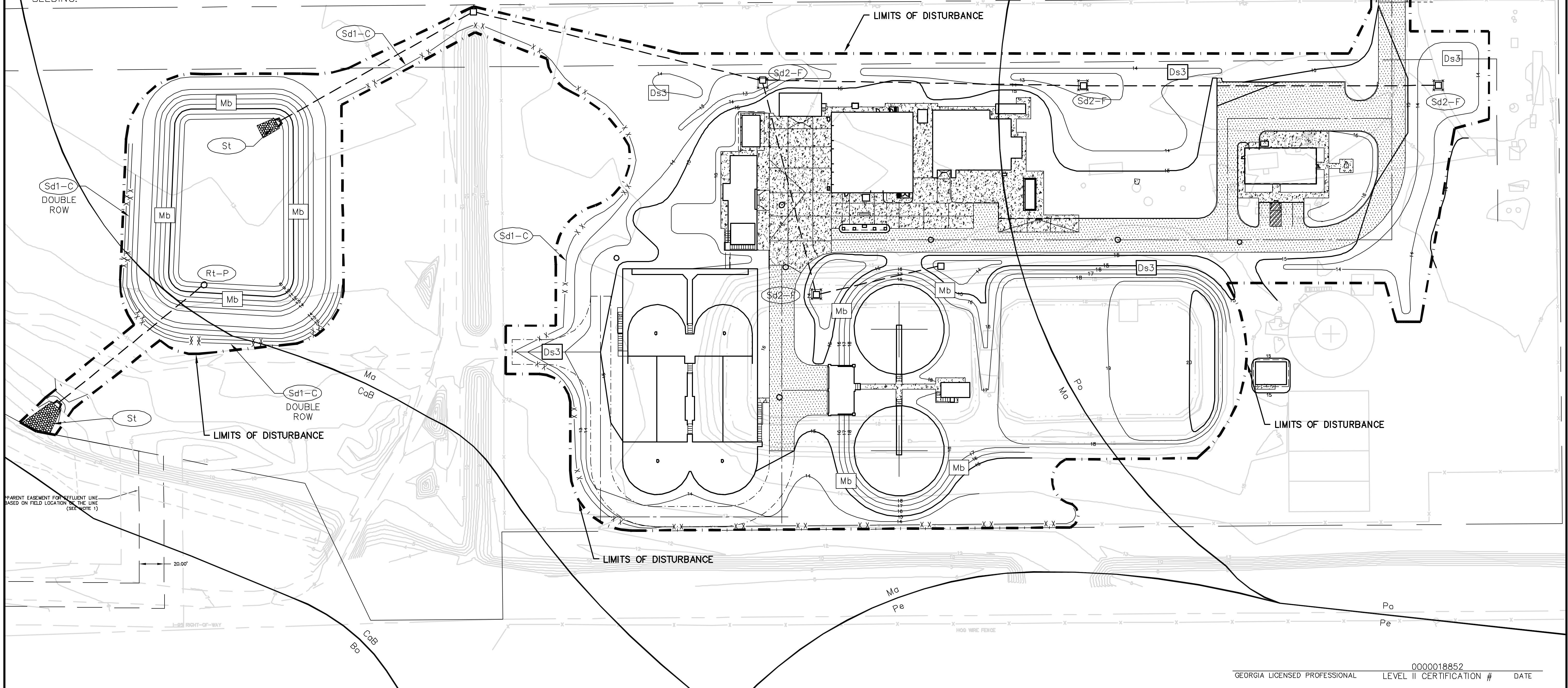
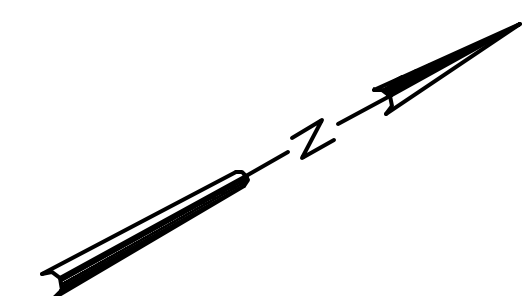
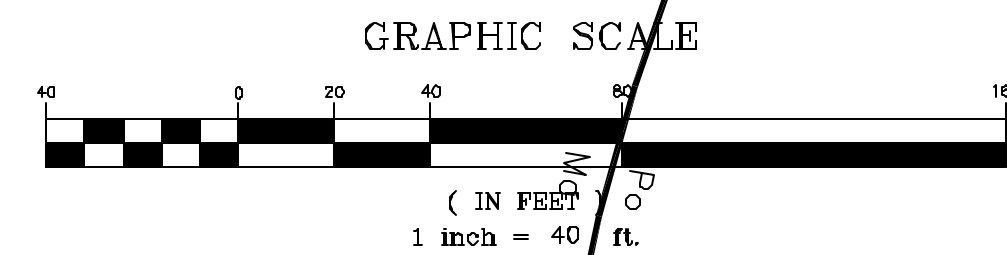
THIS LINE IS ONE INCH LONG WHEN PLOTTED FULL SCALE

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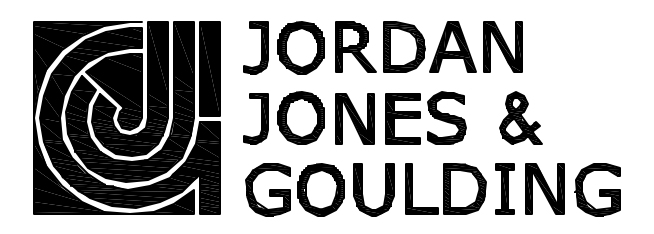


PARENT EASEMENT FOR EFFLUENT LINE BASED ON FIELD LOCATION OF THE LINE (SEE NOTE 1)

0000018852
 GEORGIA LICENSED PROFESSIONAL LEVEL II CERTIFICATION # DATE

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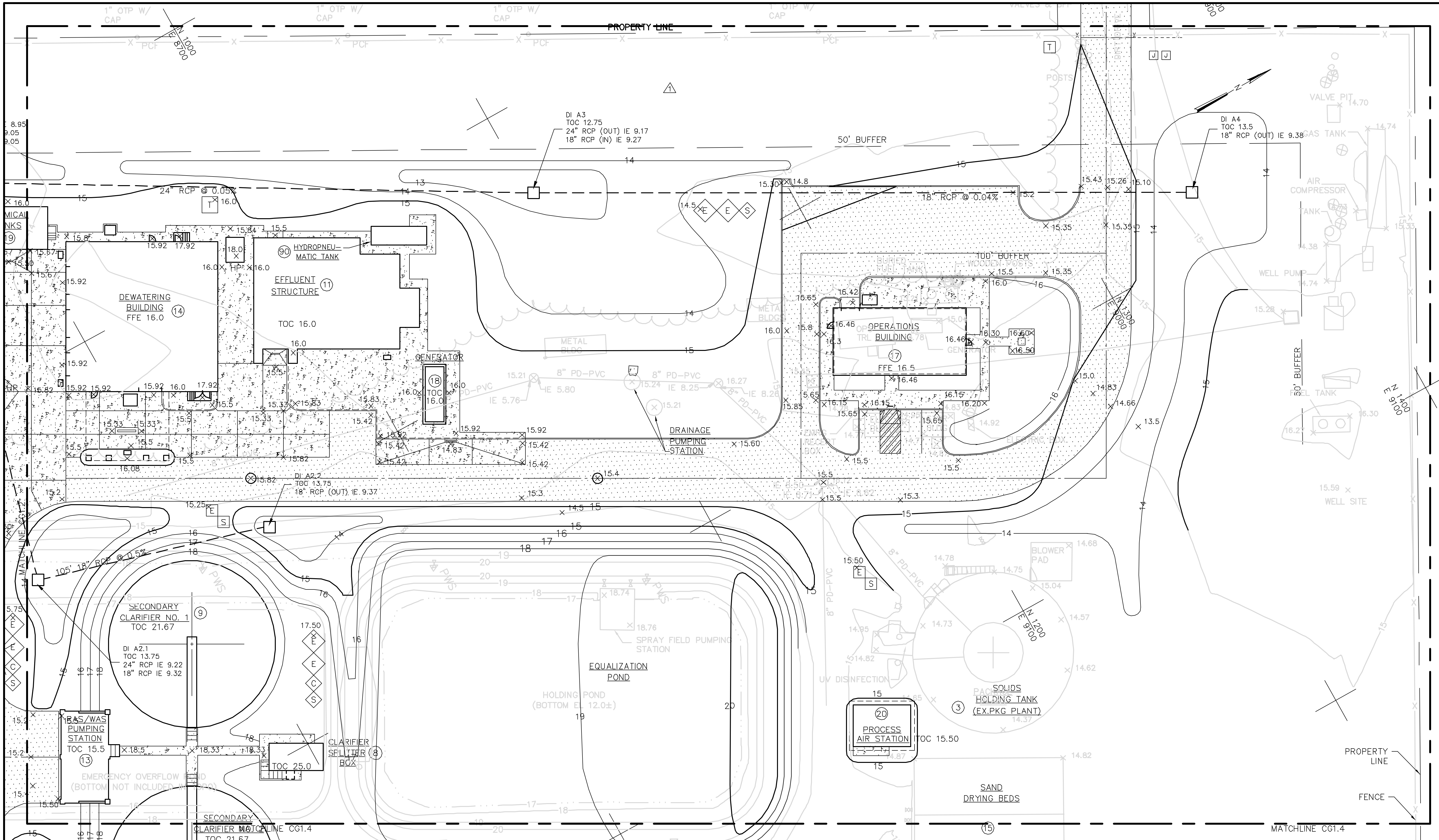
NO.	DATE	DESCRIPTION OF REVISION
R	10-26-10	RECORD DRAWINGS
O	05-09-08	INITIAL ISSUE



EXIT 29 WPCP EXPANSION PHASE 3			
FINAL EROSION CONTROL PANEL			
DESIGNED: KAK	CHECKED:	DATE: MAY 2008	CE1.3
DRAWN: DLB	JOB NO. 02018040	SCALE: 1"=40'	R
			REV

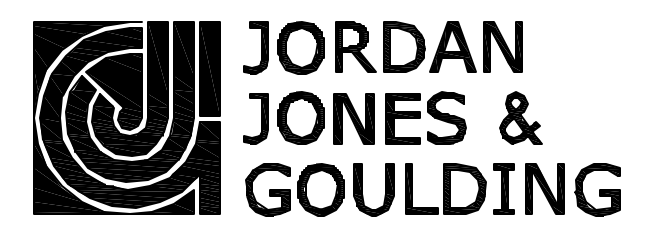
WILLIAM WHEELER

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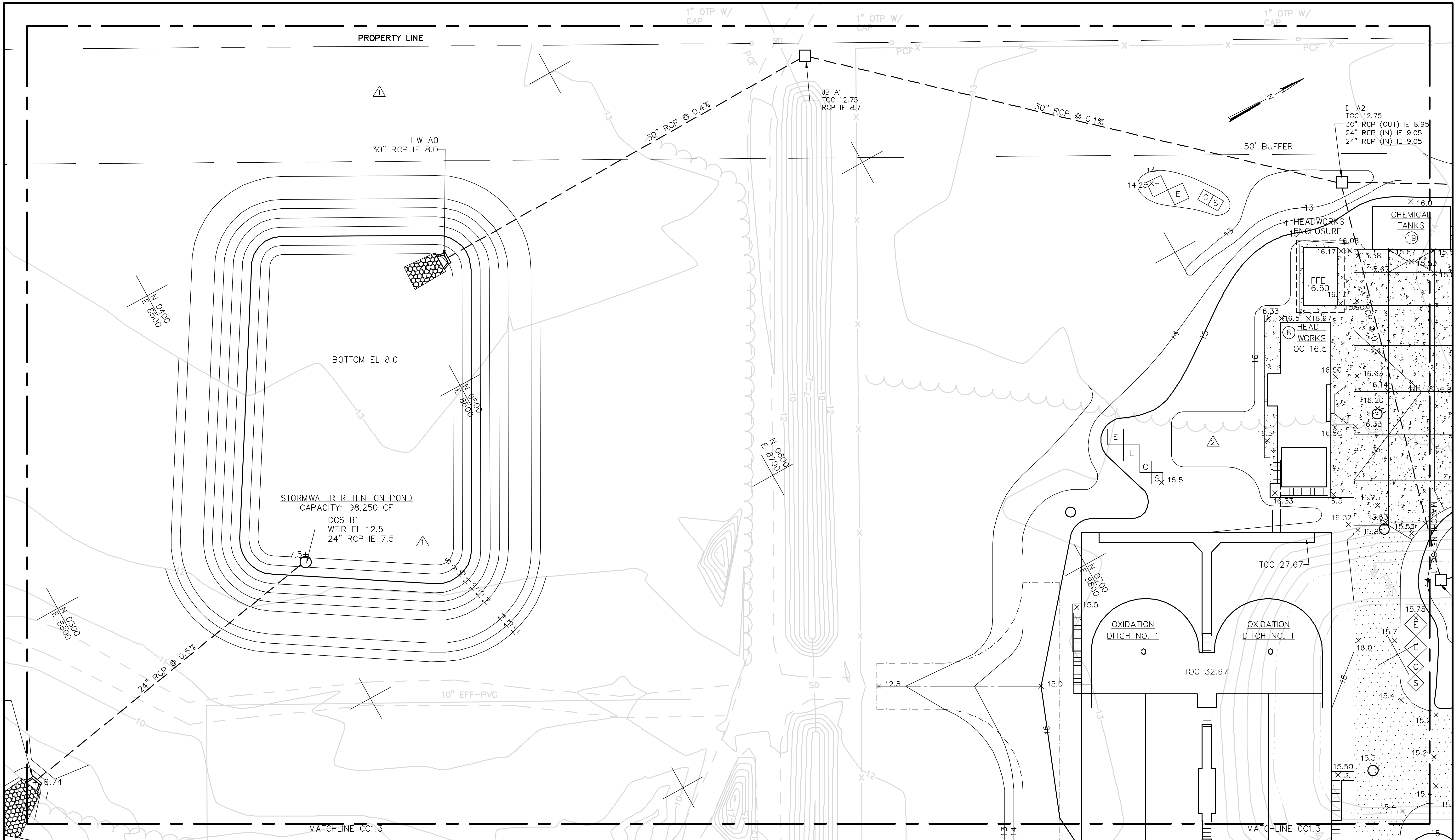
NO.	DATE	DESCRIPTION OF REVISION
R	10-22-10	RECORD DRAWINGS
1	05-07-09	STORM WATER DRAINAGE SYSTEM CHANGES
0	05-09-08	INITIAL ISSUE



EXIT 29 WPCP EXPANSION PHASE 3			
GRADING PLAN			
DESIGNED: KTH	CHECKED:	DATE: MAY 2008	CG1.1
DRAWN: KTH	JOB NO. 02018040	SCALE: 1"=20'	R
			REV

WILLIAM WHEELER

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NO.	DATE	DESCRIPTION OF REVISION
R	10-22-10	RECORD DRAWINGS
2	12-03-09	REMOVED ODOR CONTROL SYSTEM
1	05-07-09	STORM WATER DRAINAGE SYSTEM CHANGES
0	05-09-08	INITIAL ISSUE

JORDAN JONES & GOULDING



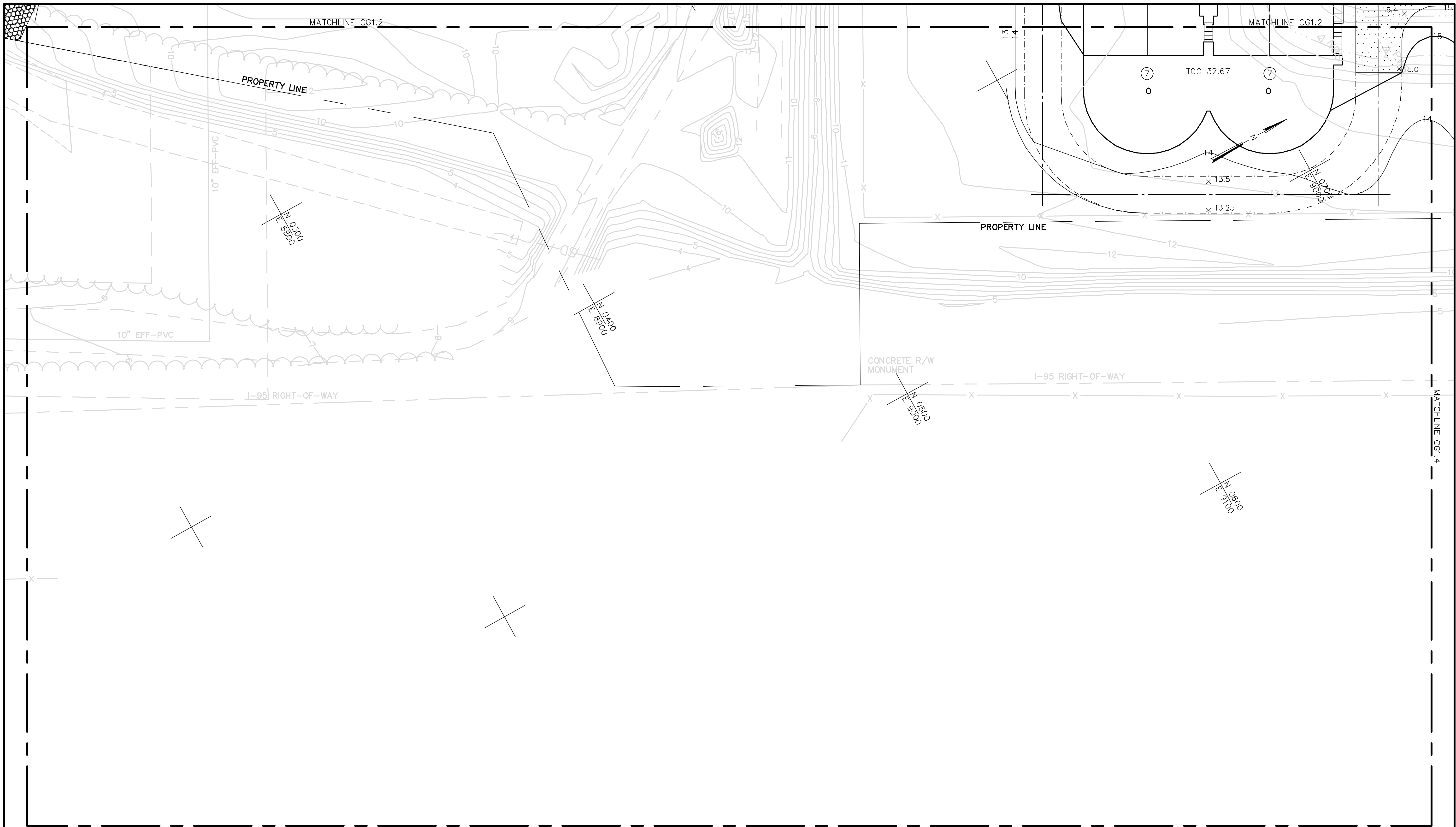
EXIT 29 WPCP EXPANSION PHASE 3

GRADING PLAN

DESIGNED: KTH	CHECKED:	DATE: MAY 2008	CG1.2	R
DRAWN: KTH	JOB NO. 02018040	SCALE: 1"=20'	SHEET	REV

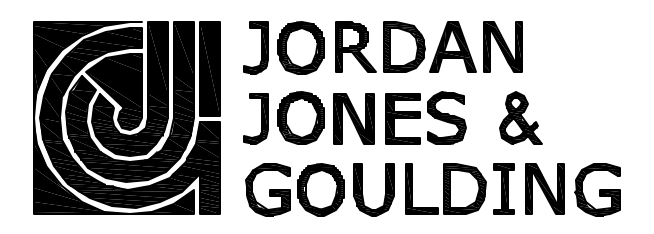
WILLIAM WHEELER

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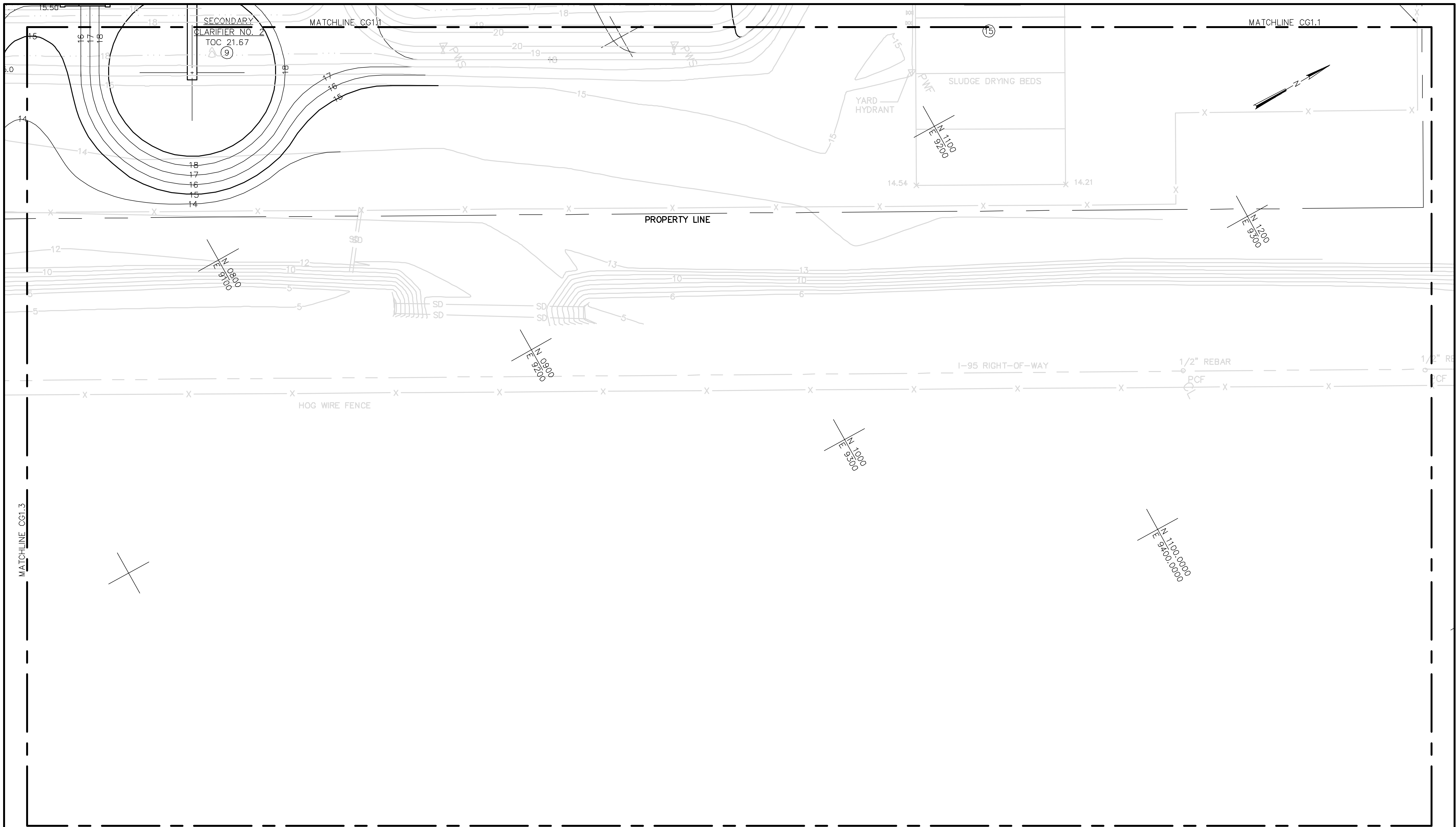
EXIT 29 WPCP EXPANSION
 PHASE 3

GRADING PLAN

DESIGNED: KTH	CHECKED:	DATE: MAY 2008	CG1.3	R
DRAWN: KTH	JOB NO. 02018040	SCALE: 1"=20'	SHEET	REV

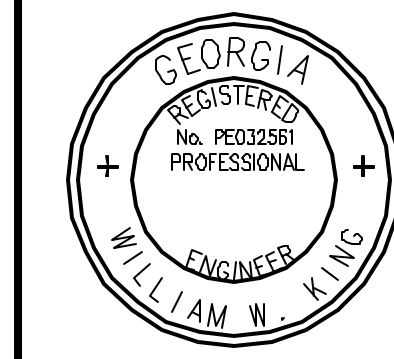
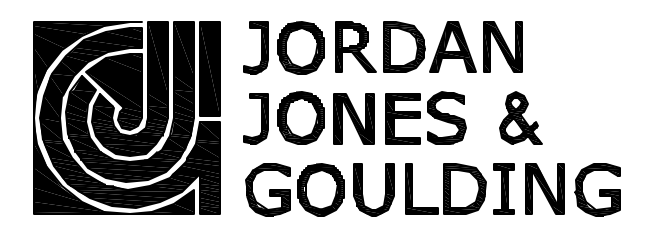
WILLIAM WHEELER

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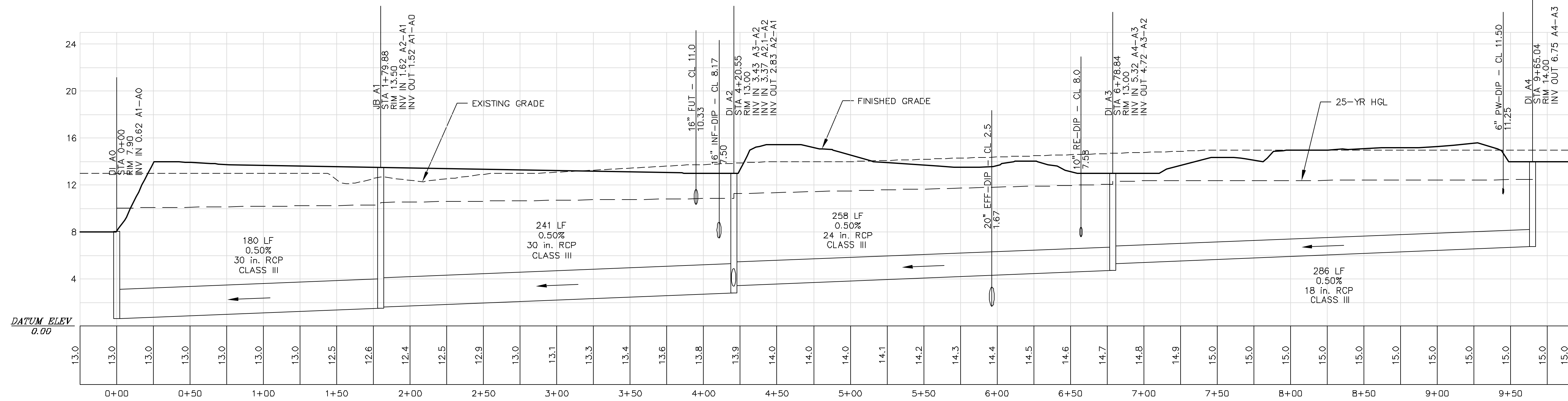
EXIT 29 WPCP EXPANSION
 PHASE 3

GRADING PLAN

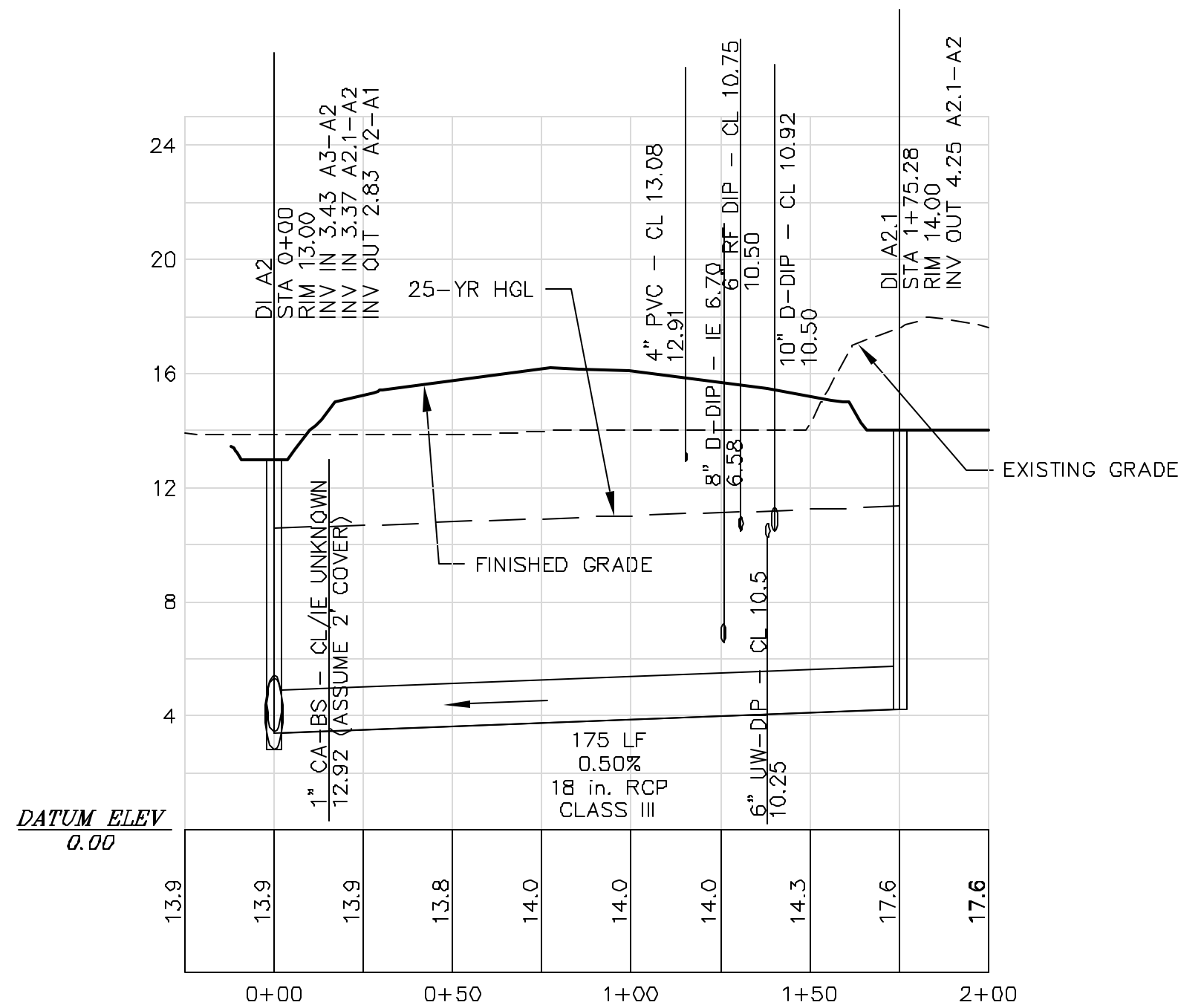
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DRAWN: KTH	JOB NO. 02018040	SCALE: 1"=20'	SHEET	REV

WILLIAM WHEELER

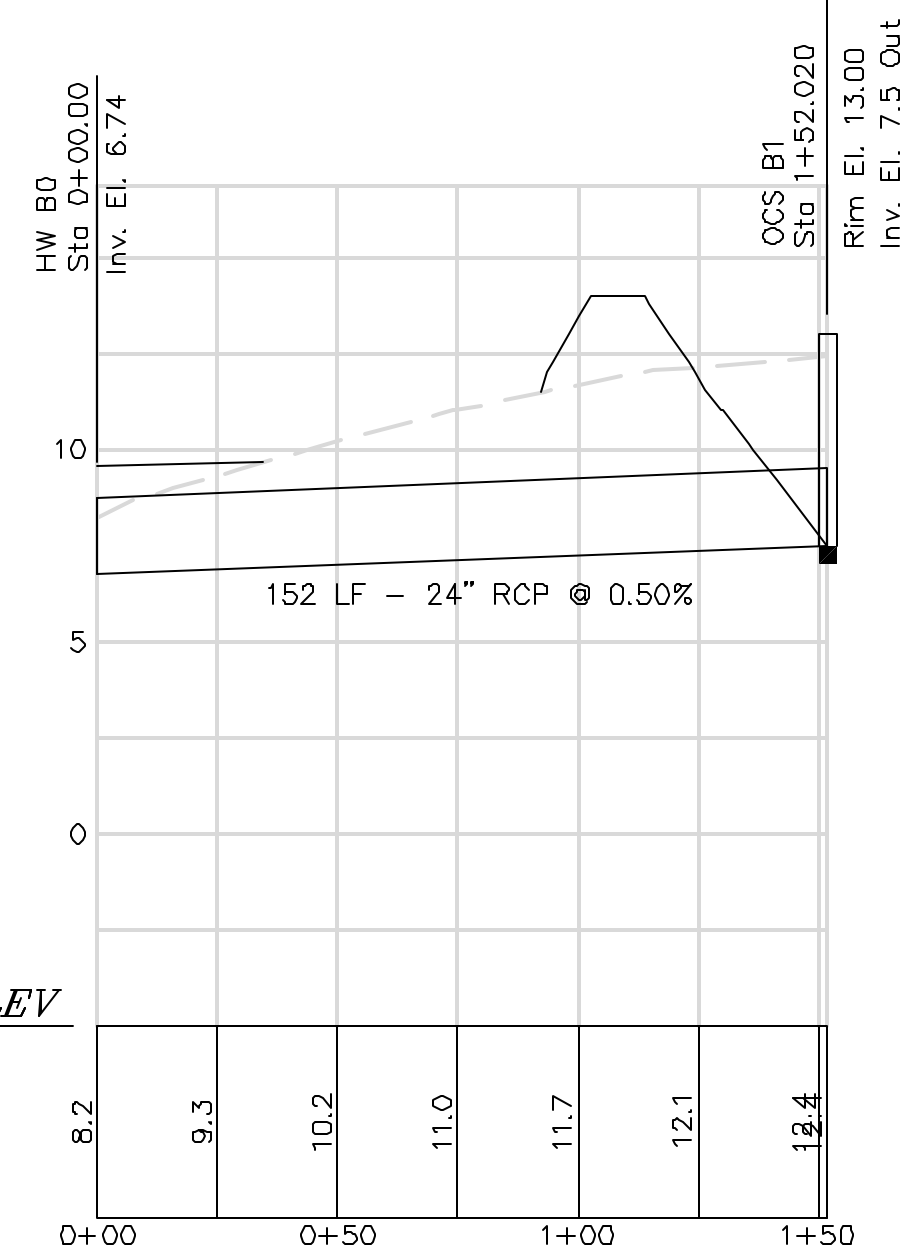
THIS LINE IS ONE INCH LONG WHEN PLOTTED FULL SCALE



STORM PROFILE DI A0 TO DI A4
 HORIZONTAL SCALE: 1"=40'
 VERTICAL SCALE: 1"=5'



STORM PROFILE DI A2 TO DI A2.1
 HORIZONTAL SCALE: 1"=40'
 VERTICAL SCALE: 1"=5'



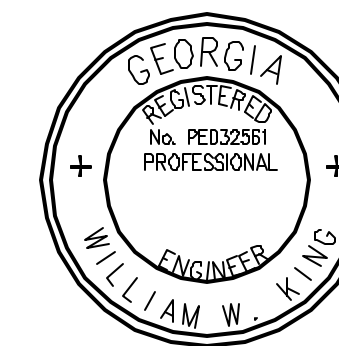
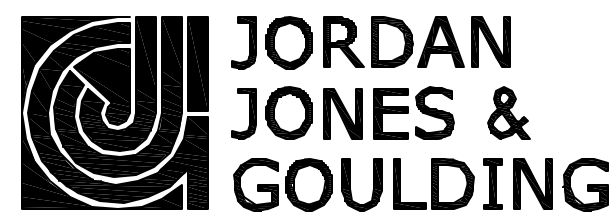
STORM LINE B
 H: 1"=40'
 V: 1"=5'

STORM PIPE CHART

Line ID	Drainage Area (ac)	Runoff Coeff (C)	Total CxA	Tc (min)	I25 (in/hr)	Q25 (cfs)	Capacity Full (cfs)	DIA (in)	Length (ft)	Slope (%)	MATERIAL	CLASS	n	HGL Up (ft)	HGL Dn (ft)	V25 (ft/s)
JB A1 - DI A0	0	0	2.08	17.7	6.36	13.29	29.00	30	175.25	0.5	RCP	III	0.013	10.23	10.04	2.71
DI A2 - JB A1	1.06	0.4	2.08	16.4	6.54	13.66	28.94	30	253.24	0.5	RCP	III	0.013	10.58	10.31	2.78
DI A3 - DI A2	0.83	0.55	0.74	13.9	6.90	5.13	15.99	24	243.86	0.5	RCP	III	0.013	10.90	10.77	1.63
DI A4 - DI A3	0.96	0.3	0.29	10.0	7.54	2.17	7.43	18	286	0.5	RCP	III	0.013	11.05	10.92	1.23
DI A2.1 - DI A2	2.97	0.31	0.92	10.0	7.54	6.94	16.04	24	170.27	0.5	RCP	III	0.013	10.90	10.73	2.21
Line ID	Drainage Area (ac)	Runoff Coeff (C)	Total CxA	Tc (min)	I50 (in/hr)	Q50 (cfs)	Capacity Full (cfs)	DIA (in)	Length (ft)	Slope (%)	MATERIAL	CLASS	n	HGL Up (ft)	HGL Dn (ft)	V50 (ft/s)
OCS B1-HW B0	ROUTED	ROUTED	ROUTED	ROUTED	ROUTED	23.28	50.58	24	152	0.5	RCP	III	0.013	9.00	8.25	8.10

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NO.	DATE	DESCRIPTION OF REVISION
0	05-09-08	INITIAL ISSUE



EXIT 29 WPCP EXPANSION
 PHASE 3

STORMWATER PIPE PROFILES
 AND PIPE CHART

DESIGNED: KAB	CHECKED:	DATE: MAY 2008	CP1.1	0
DRAWN:	JOB NO. 02018040	SCALE: AS SHOWN	SHEET	REV

THIS LINE IS ONE INCH LONG WHEN PLOTTED FULL SCALE

STRUCTURE LOCATION DATA			
STRUCTURE (CODE)	POINT	COORDINATES NORTH	COORDINATES EAST
HEADWORKS (6)	*6A	0825.48	8748.91
	*6B	0807.61	8826.19
HEADWORKS ENCLOSURE	6C	0837.56	8747.41
	6D	0862.67	8732.36
OXIDATION DITCHES NO. 1 & 2 (7)	7A	0705.40	8786.96
	7B	0673.83	8956.14
CLARIFIER SPLITTER BOX (8)	8A	0885.41	8991.43
	8B	0900.15	9013.32
SECONDARY CLARIFIERS NO. 1 & 2 (9)	9A	0894.60	8905.82
	9B	0876.99	8937.59
	9C	0847.09	8991.53
	9D	0829.47	9023.31
FILTERS (FUTURE)	10A	1128.77	8926.21
	10B	1139.15	8971.41

STRUCTURE LOCATION DATA			
STRUCTURE (CODE)	POINT	COORDINATES NORTH	COORDINATES EAST
EFFLUENT STRUCTURE (11)	11A	0986.03	8796.12
	11B	1018.29	8869.26
RAS/WAS PUMPING STA.	*13A	0832.02	8945.25
	*13B	0793.19	8970.61
DEWATERING BUILDING (14)	14A	0914.03	8757.92
	14B	0940.07	8847.06
OPERATIONS BUILDING (17)	*17A	1191.77	8945.41
	*17B	1227.89	8997.82
GENERATOR (18)	18A	1023.81	8879.91
	18B	1019.96	8907.50
CHEMICAL TANKS	19A	0884.64	8724.29
	19B	0905.41	8756.96
PROCESS AIR STATION(20)	*20A	1115.55	9100.03
	*20B	1128.69	9127.89

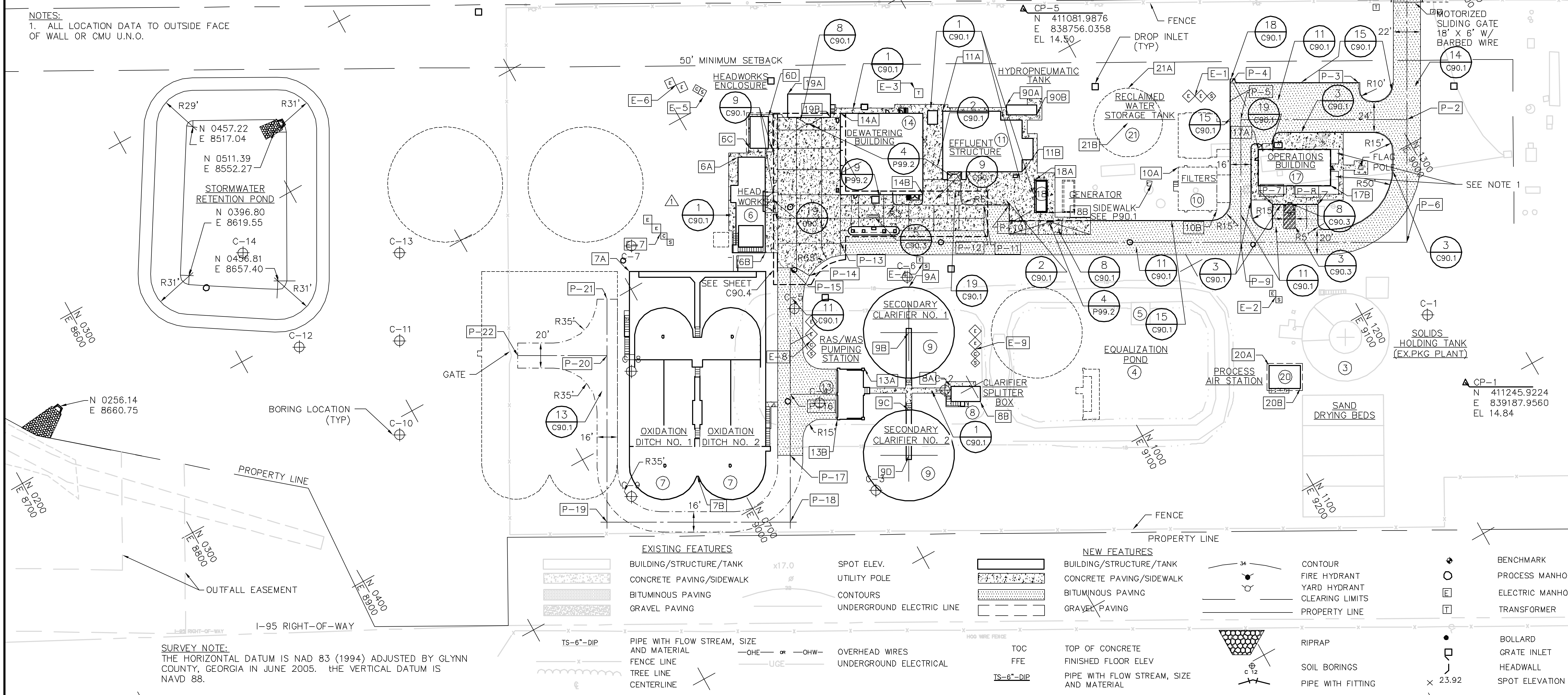
STRUCTURE LOCATION DATA			
STRUCTURE (CODE)	POINT	COORDINATES NORTH	COORDINATES EAST
RECLAIMED WATER STORAGE TANK (FUTURE)	21A	1124.53	8851.71
	21B	1111.20	8875.76
HYDROPNEUMATIC TANK	*90A	1033.21	8816.55
	*90B	1050.32	8835.18

POINT OF INTERSECTION LOCATION DATA		
POINT	COORDINATES NORTH	COORDINATES EAST
P-1	1372.22	8863.62
P-2	1306.85	8981.56
P-3	1287.52	8937.69
P-4	1197.87	8888.00
P-5	1190.81	8917.24
P-6	1259.41	9067.14
P-7	1180.14	8989.09
P-8	1211.62	9006.54
P-9	1143.37	9002.81
P-10	0996.13	8887.57
P-11	0978.49	8877.79
P-12	0968.67	8895.52
P-13	0864.09	8848.00

POINT OF INTERSECTION LOCATION DATA		
POINT	COORDINATES NORTH	COORDINATES EAST
P-14	0829.53	8859.32
P-15	0819.24	8846.42
P-16	0770.40	8934.54
P-17	0746.63	8977.42
P-18	0720.94	9023.77
P-19	0593.26	8953.00
P-20	0657.60	8836.93
P-21	0679.41	8797.58
P-22	0595.08	8802.28

ELECTRICAL MANHOLE LOCATION DATA		
POINT	COORDINATES NORTH	COORDINATES EAST
E-1	1167.81	8883.22
E-2	1146.94	9054.30
E-3	0975.07	8769.49
E-4	0913.79	8894.45
E-5	0824.97	8693.31
E-6	0810.28	8674.89
E-7	0742.56	8772.04
E-8	0805.91	8905.35
E-9	0916.72	8975.06

NOTES:
1. ALL LOCATION DATA TO OUTSIDE FACE OF WALL OR CMU U.N.O.

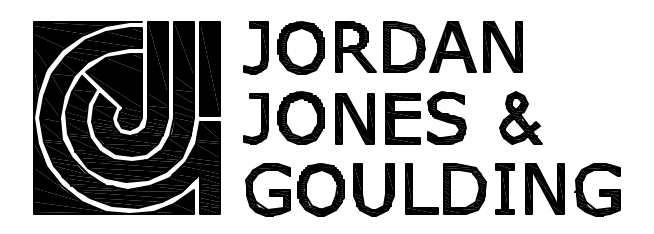


<p>EXISTING FEATURES</p> <ul style="list-style-type: none"> BUILDING/STRUCTURE/TANK CONCRETE PAVING/SIDEWALK BITUMINOUS PAVING GRAVEL PAVING 	<p>NEW FEATURES</p> <ul style="list-style-type: none"> BUILDING/STRUCTURE/TANK CONCRETE PAVING/SIDEWALK BITUMINOUS PAVING GRAVEL PAVING 	<p>CONTOUR</p> <ul style="list-style-type: none"> FIRE HYDRANT YARD HYDRANT CLEARING LIMITS PROPERTY LINE 	<p>BENCHMARK</p> <ul style="list-style-type: none"> PROCESS MANHOLE ELECTRIC MANHOLE TRANSFORMER BOLLARD GRATE INLET HEADWALL SPOT ELEVATION
<p>TS-6"-DIP</p> <p>PIPE WITH FLOW STREAM, SIZE AND MATERIAL</p> <p>FENCE LINE</p> <p>TREE LINE</p> <p>CENTERLINE</p>	<p>SPOT ELEV.</p> <p>UTILITY POLE</p> <p>CONTOURS</p> <p>UNDERGROUND ELECTRIC LINE</p> <p>OVERHEAD WIRES</p> <p>UNDERGROUND ELECTRICAL</p>	<p>TOC</p> <p>FFE</p> <p>TS-6"-DIP</p> <p>TOP OF CONCRETE</p> <p>FINISHED FLOOR ELEV</p> <p>PIPE WITH FLOW STREAM, SIZE AND MATERIAL</p>	<p>RIPRAP</p> <p>SOIL BORINGS</p> <p>PIPE WITH FITTING</p>

SURVEY NOTE:
THE HORIZONTAL DATUM IS NAD 83 (1994) ADJUSTED BY GLYNN COUNTY, GEORGIA IN JUNE 2005. THE VERTICAL DATUM IS NAVD 88.

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NO.	DATE	DESCRIPTION OF REVISION
R	10-22-10	RECORD DRAWINGS
1	12-03-09	REMOVED ODDR CONTROL SYSTEM
0	05-09-08	INITIAL ISSUE



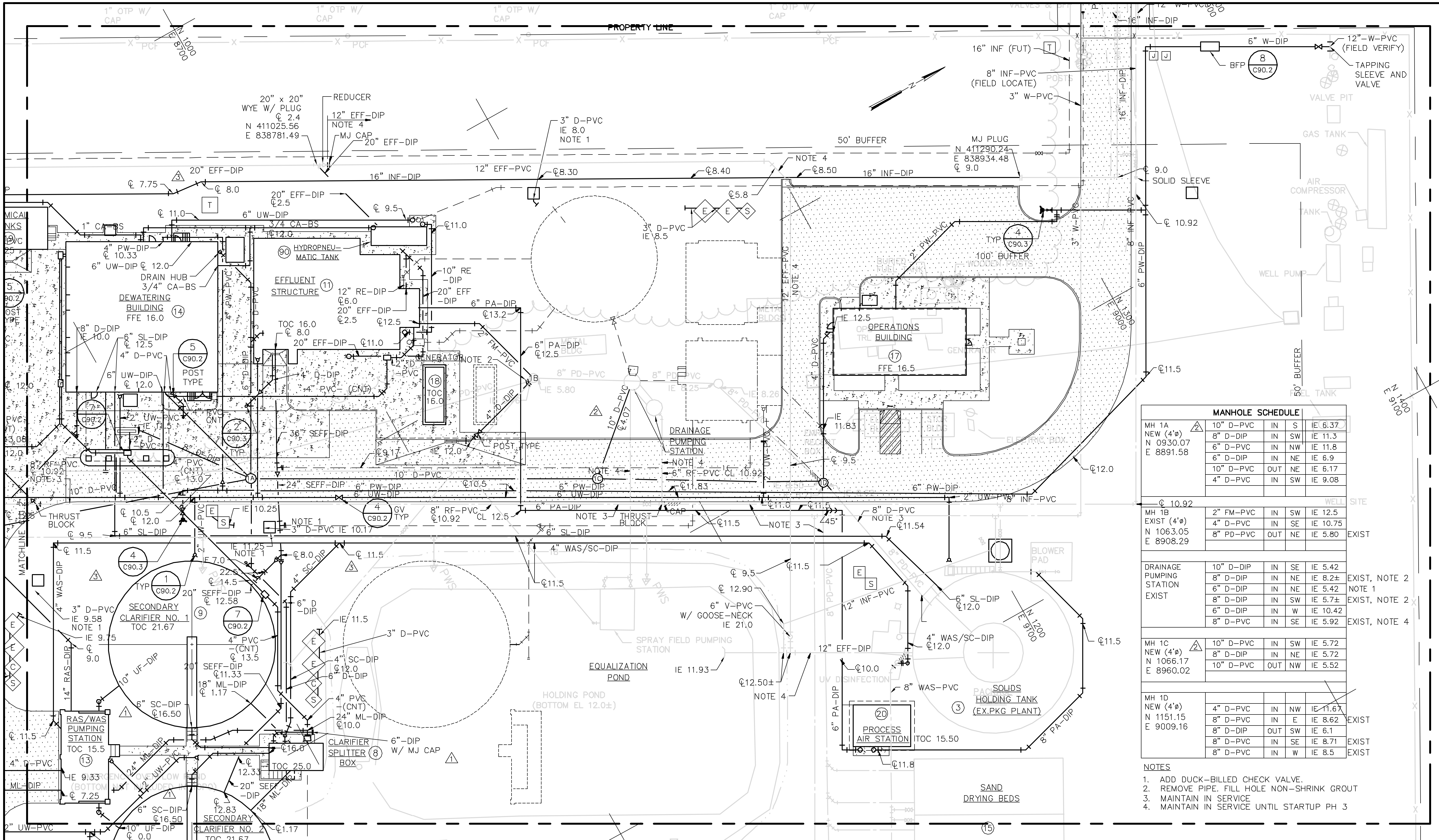
EXIT 29 WPCP EXPANSION PHASE 3

SITE AND STAKING PLAN

DESIGNED: WWK	CHECKED:	DATE: MAY 2008	CS1.1	R
DRAWN: KTH	JOB NO. 02018040	SCALE: 1"=40'	SHEET	REV

WILLIAM WHEELER

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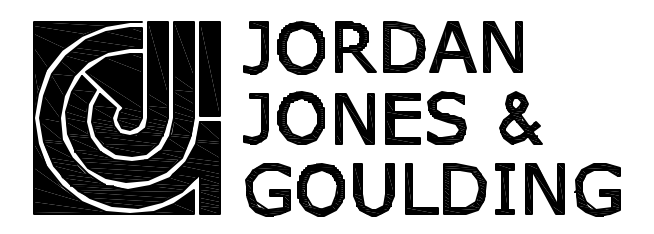


MANHOLE SCHEDULE						
MH 1A NEW (4'Ø) N 0930.07 E 8891.58	10" D-PVC	IN	S	IE 6.37		
	8" D-DIP	IN	SW	IE 11.3		
	6" D-PVC	IN	NW	IE 11.8		
	6" D-DIP	IN	NE	IE 6.9		
	10" D-PVC	OUT	NE	IE 6.17		
	4" D-PVC	IN	SW	IE 9.08		
WELL SITE						
MH 1B EXIST (4'Ø) N 1063.05 E 8908.29	2" FM-PVC	IN	SW	IE 12.5		
	4" D-PVC	IN	SE	IE 10.75		
	8" PD-PVC	OUT	NE	IE 5.80		EXIST
DRAINAGE PUMPING STATION						
	10" D-DIP	IN	SE	IE 5.42		EXIST, NOTE 2
	8" D-DIP	IN	NE	IE 8.2±		NOTE 1
	6" D-DIP	IN	NE	IE 5.42		EXIST, NOTE 2
	8" D-DIP	IN	SW	IE 5.7±		EXIST, NOTE 2
	6" D-DIP	IN	W	IE 10.42		
	8" D-PVC	IN	SE	IE 5.92		EXIST, NOTE 4
MH 1C NEW (4'Ø) N 1066.17 E 8960.02	10" D-PVC	IN	SW	IE 5.72		
	8" D-DIP	IN	NE	IE 5.72		
	10" D-PVC	OUT	NW	IE 5.52		
MH 1D NEW (4'Ø) N 1151.15 E 9009.16	4" D-PVC	IN	NW	IE 11.67		EXIST
	8" D-PVC	IN	E	IE 8.62		EXIST
	8" D-DIP	OUT	SW	IE 6.1		EXIST
	8" D-PVC	IN	SE	IE 8.71		EXIST
	8" D-PVC	IN	W	IE 8.5		EXIST

- NOTES
1. ADD DUCK-BILLED CHECK VALVE.
 2. REMOVE PIPE. FILL HOLE NON-SHRINK GROUT
 3. MAINTAIN IN SERVICE
 4. MAINTAIN IN SERVICE UNTIL STARTUP PH 3

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NO.	DATE	DESCRIPTION OF REVISION
R	10-26-10	RECORD DRAWINGS
3	05-07-09	CONFLICTS FROM DRAINAGE SYSTEM CHANGES, RELOCATE FH
2	04-07-09	CHANGED 10" D-DIP TO PVC
1	06-12-08	RAISE 6" SC-DIP, EXTND 6" DIP NW OF SPLITTER BOX
0	05-09-08	INITIAL ISSUE



EXIT 29 WPCP EXPANSION
PHASE 3

UTILITIES PLAN

DESIGNED: WWK	CHECKED:	DATE: MAY 2008	CU1.1	R
DRAWN: KTH	JOB NO. 02018040	SCALE: 1"=20'	SHEET	REV

WILLIAM WHEELER

THIS LINE IS ONE INCH LONG WHEN PLOTTED FULL SCALE

PROPERTY LINE

MANHOLE SCHEDULE

MH 2A NEW (4'Ø) N 410707.12 E 838774.58 N 410424.56 E 838447.74	8" D-DIP 2" D-PVC	OUT IN	NE SE	IE 7.5 IE 12.25
MH 2C NEW (4'Ø) N 410823.33 E 838839.09	8" D-PVC 8" D-DIP 8" D-DIP 10" D-PVC 8" D-DIP	IN IN IN OUT IN	NW SW SE NE N	IE 11.45 IE 7.25 IE 7.25 IE 6.7 IE 8.0
MH 2B NEW (4'Ø) N 410843.79 E 838802.17	SEE SHEET P6.1			
MH 2D NEW (4'Ø) N 410768.18 E 838938.58	2" D-PVC 4" D-PVC 8" D-DIP	IN IN OUT	S NE NW	IE 13.0 IE 9.0 IE 7.8

YARD PIPING RESTRAINT SCHEDULE

PIPE IDENTIFICATION	FITTING	LENGTH RESTR. FT.
36" SEFF, 24" SEFF, 36" FE, 24" ML	22 1/2'	20
20" EFF, 6" UW, 6" PW, 8" W, 3" UW, 2" UW, 2" PW	45'	20
	90'	40
	TEE	60
20" SEFF, 18" ML, 16" INF, 12" EFF, 10" RE, 10" UF, 8" SL,	22 1/2'	20
	45'	20
	90'	40
	TEE	40
	22 1/2'	20
8" BW, 8" PA, 6" PA, 4" RAS, 4" WAS, 4" SC	45'	20
	90'	20
	TEE	20
4" PW	22 1/2'	20
	45'	20
	90'	40
	TEE	40

YARD PIPING RESTRAINT NOTES

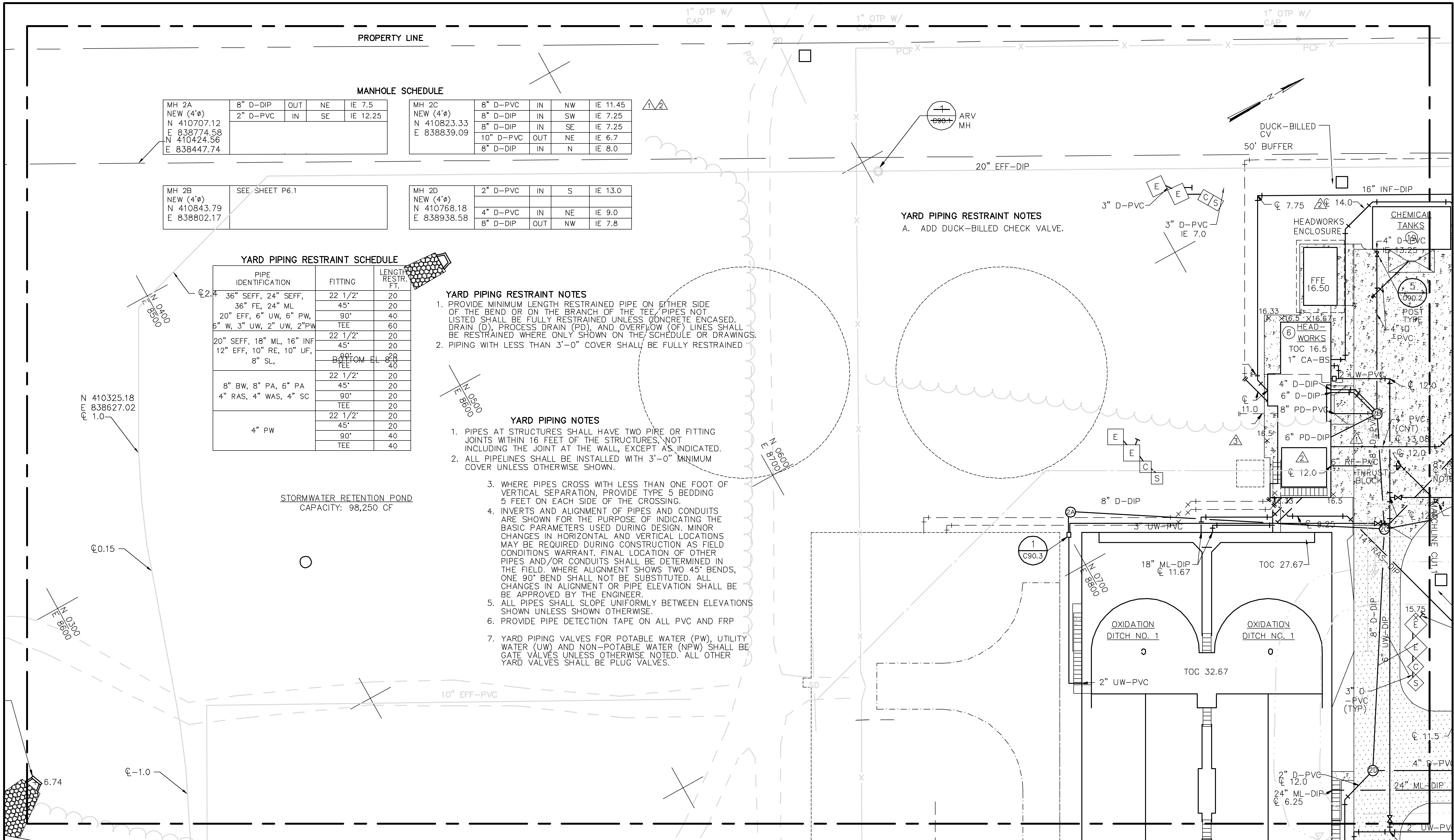
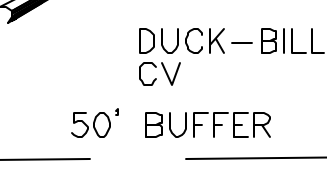
1. PROVIDE MINIMUM LENGTH RESTRAINED PIPE ON EITHER SIDE OF THE BEND OR ON THE BRANCH OF THE TEE. PIPES NOT LISTED SHALL BE FULLY RESTRAINED UNLESS CONCRETE ENCASED. DRAIN (D), PROCESS DRAIN (PD), AND OVERFLOW (OF) LINES SHALL BE RESTRAINED WHERE ONLY SHOWN ON THE SCHEDULE OR DRAWINGS.
2. PIPING WITH LESS THAN 3'-0" COVER SHALL BE FULLY RESTRAINED

YARD PIPING NOTES

1. PIPES AT STRUCTURES SHALL HAVE TWO PIPE OR FITTING JOINTS WITHIN 16 FEET OF THE STRUCTURES, NOT INCLUDING THE JOINT AT THE WALL, EXCEPT AS INDICATED.
2. ALL PIPELINES SHALL BE INSTALLED WITH 3'-0" MINIMUM COVER UNLESS OTHERWISE SHOWN.
3. WHERE PIPES CROSS WITH LESS THAN ONE FOOT OF VERTICAL SEPARATION, PROVIDE TYPE 5 BEDDING 5 FEET ON EACH SIDE OF THE CROSSING.
4. INVERTS AND ALIGNMENT OF PIPES AND CONDUITS ARE SHOWN FOR THE PURPOSE OF INDICATING THE BASIC PARAMETERS USED DURING DESIGN. MINOR CHANGES IN HORIZONTAL AND VERTICAL LOCATIONS MAY BE REQUIRED DURING CONSTRUCTION AS FIELD CONDITIONS WARRANT. FINAL LOCATION OF OTHER PIPES AND/OR CONDUITS SHALL BE DETERMINED IN THE FIELD. WHERE ALIGNMENT SHOWS TWO 45' BENDS, ONE 90° BEND SHALL NOT BE SUBSTITUTED. ALL CHANGES IN ALIGNMENT OR PIPE ELEVATION SHALL BE APPROVED BY THE ENGINEER.
5. ALL PIPES SHALL SLOPE UNIFORMLY BETWEEN ELEVATIONS SHOWN UNLESS SHOWN OTHERWISE.
6. PROVIDE PIPE DETECTION TAPE ON ALL PVC AND FRP
7. YARD PIPING VALVES FOR POTABLE WATER (PW), UTILITY WATER (UW) AND NON-POTABLE WATER (NPW) SHALL BE GATE VALVES UNLESS OTHERWISE NOTED. ALL OTHER YARD VALVES SHALL BE PLUG VALVES.

STORMWATER RETENTION POND
CAPACITY: 98,250 CF

YARD PIPING RESTRAINT NOTES
A. ADD DUCK-BILLED CHECK VALVE.



NOTES:
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. AS A RESULT, THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT.

NO.	DATE	DESCRIPTION OF REVISION
R	10-26-10	RECORD DRAWINGS
3	12-03-09	REMOVED ODOR CONTROL SYSTEM
2	05-07-09	CONFLICTS FROM STORM WATER DRAINAGE SYSTEM CHANGES
1	04-07-09	CHANGED 8" D-DIP TO PVC, 6" RF-DIP TO PVC
0	05-09-08	INITIAL ISSUE



EXIT 29 WPCP EXPANSION
PHASE 3

UTILITIES PLAN

DESIGNED: WWK	CHECKED:	DATE: MAY 2008	CU1.2	R
DRAWN: KTH	JOB NO. 02018040	SCALE: 1"=20'	SHEET	REV

WILLIAM WHEELER

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