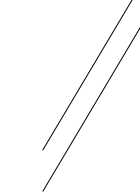


B	09/17/18	MTI	ARF								
A	12/15/17	MTI	ARF								
No	DATE	BY	CHK	APP	APP	DESCRIPTION					
						REVISIONS					
ORIGINATION		BY	DATE			 The Chemical Company FUTURE SITE PLAN PARKING LOT ADDITION BASF BRIGHTON, CO					
DRAWN		JCL	11/06/17								
DESIGN		MTI	11/06/17								
CHECKED		ARF									
APPROVAL		BY	DATE								
IVE Eng.											
Civ. Eng.											
Proj. Eng.											
Proj. Mgr.						DRAWING NUMBER				REV	
Mfg. Rep.						0005-BRI-C0- GA-02				B	
						SITE		LOCATION	TYPE		NUMBER
						CAD INFORMATION					
APPRO. No.											
PROJECT No.		D54383			THIS DRAWING AND DESIGN INCLUDING BUT NOT LIMITED TO ALL PATENTABLE FEATURES SEPARATELY OR COLLECTIVELY SHOWN ARE THE PROPERTY OF BASF CORPORATION AND ARE NOT TO BE REPRODUCED IN WHOLE OR IN PART, NOR EMPLOYED FOR ANY PURPOSE OTHER THAN SPECIFICALLY PERMITTED IN WRITING BY BASF CORPORATION THIS DRAWING IS LOANER SUBJECT TO RETURN ON DEMAND.						
SITE		BRT									
SCALE		AS NOTED									



B	09/17/18		MTI	ARF				RE-ISSUED FOR PERMITS		
A	01/10/18		MTI	ARF				ISSUED FOR REVIEW		
No	DATE	BY	CHK	APP	APP	DESCRIPTION				
						REVISIONS				
ORIGINATION		BY		DATE		 The Chemical Company				
DRAWN		JCL		11/06/17						
DESIGN		MTI		11/06/17						
CHECKED		ARF								
APPROVAL		BY		DATE						
I/E Eng.						EXISTING SITE PLAN PARKING LOT ADDITION BASF BRIGHTON, CO				
Civ. Eng.										
Prj. Eng.										
Proj. Mgr.										
Mfg. Rep.										
						DRAWING NUMBER			REV	
						0005- BRI- C0- GA-01			B	
						SITE	LOCATION	TYPE		NUMBER
						CAD INFORMATION				
APPRO. No.										
PROJECT No.		D54383								
SITE		BRT								
SCALE		AS NOTED								
						THIS DRAWING AND DESIGN INCLUDING BUT NOT LIMITED TO ALL PATENTABLE FEATURES SEPARATELY OR COLLECTIVELY SHOWN ARE THE PROPERTY OF BASF CORPORATION AND ARE NOT TO BE REPRODUCED IN WHOLE OR IN PART, NOR EMPLOYED FOR ANY PURPOSE OTHER THAN SPECIFICALLY PERMITTED IN WRITING BY BASF CORPORATION. THIS DRAWING IS LOANED SUBJECT TO RETURN ON DEMAND.				



NEW PARKING LOT ADDITION

BRIGHTON FACILITY: 10601 FULTON STREET, BRIGHTON, CO 80601

PROJECT CONTACTS

PROJECT LOCATION

DI GIORGIO INDUSTRIAL PARK, LOT 11,
PUBLIC RECORDS OF ADAMS COUNTY,
COLORADO
SECTION 10
TOWNSHIP 2S
RANGE 67W

PROPERTY OWNER:

BASF CORPORATION
10601 FULTON ST.
BRIGHTON, COLORADO 80601

ENGINEERING CONSULTANT:

MATRIX TECHNOLOGIES INC.
12041 TEJON STREET
WESTMINSTER, COLORADO 80234

COMMERCE CITY:

PUBLIC WORKS DEPARTMENT
6060 ROSEMARY STREET
COMMERCE CITY, COLORADO 80022

WATER AND SEWER:

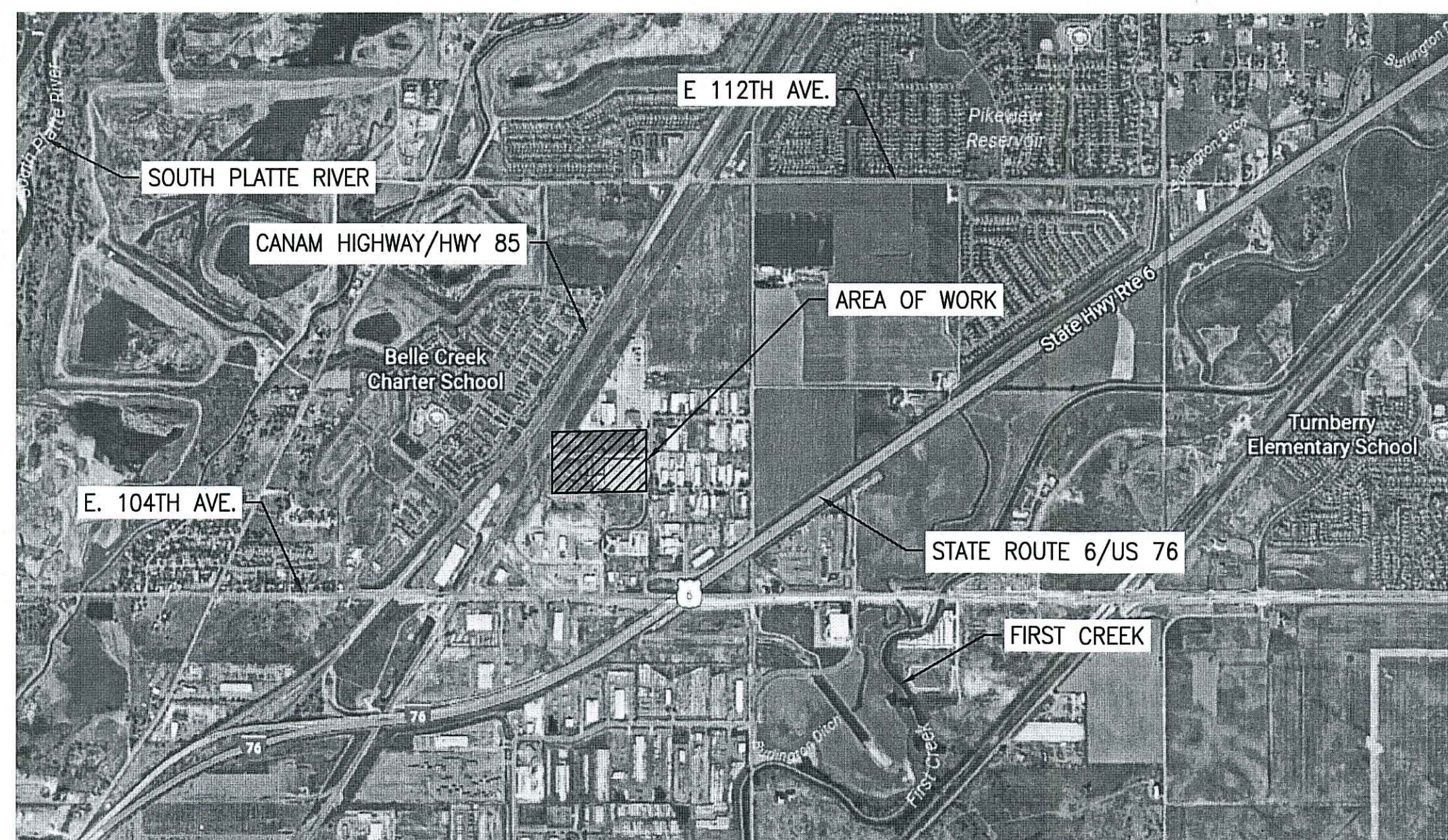
SOUTH ADAMS COUNTY WATER AND SANITATION DISTRICT
6595 EAST 70TH AVENUE
COMMERCE CITY, COLORADO 80022

ELECTRICITY:

UNITED POWER
500 COOPERATIVE WAY
BRIGHTON, COLORADO 80603

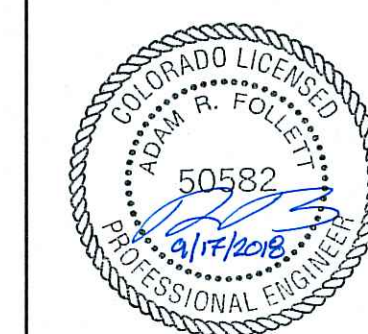
NATURAL GAS:

XCEL ENERGY
1800 LARIMER STREET, #1600
DENVER, COLORADO 80202



PROJECT LOCATION MAP

SCALE: 1" = 2,000'



THE EROSION AND SEDIMENT CONTROL PLAN INCLUDED
HEREIN HAS BEEN PREPARED UNDER MY DIRECT SUPERVISION
IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 8 OF
THE CITY OF COMMERCE CITY ENGINEERING CONSTRUCTION
STANDARDS AND SPECIFICATIONS MANUAL.



CIVIL DRAWING INDEX

DRAWING NO.	REV.	REV. DATE	DRAWING TITLE
001	C	09/17/2018	TITLE SHEET
002	C	09/17/2018	GENERAL NOTES & LEGEND
003	C	09/17/2018	DEMOLITION PLAN
004	C	09/17/2018	SITE PLAN
005	C	09/17/2018	UTILITY PLAN
006	C	09/17/2018	GRADING PLAN
007	C	09/17/2018	ENLARGED GRADING PLAN
008	C	09/17/2018	RETENTION POND & GRADING DETAILS
009	C	09/17/2018	INSTALLATION DETAILS
010	C	09/17/2018	INSTALLATION DETAILS
011	C	09/17/2018	LANDSCAPE PLAN
012	-		SPARE (OMITTED)
013	-		SPARE (OMITTED)
014	-		SPARE (OMITTED)
015	C	09/17/2018	EXISTING DRAINAGE AREAS
016	C	09/17/2018	POST DRAINAGE AREAS
017	-		SPARE (OMITTED)
018	-		SPARE (OMITTED)
019	-		SPARE (OMITTED)
020	C	09/17/2018	EROSION & SEDIMENT CONTROL NOTES & LEGEND
021	C	09/17/2018	INITIAL EROSION & SEDIMENT CONTROL PLAN
022	C	09/17/2018	INTERIM EROSION & SEDIMENT CONTROL PLAN
023	C	09/17/2018	FINAL EROSION & SEDIMENT CONTROL PLAN
-	-	-	COMMERCE CITY - STANDARD DETAILS

(OMITTED AS PER
C3 PLANNING
COMMENT)

ELECTRICAL DRAWING INDEX

DRAWING NO.	REV.	REV. DATE	DRAWING TITLE
001	C	09/17/2018	LIGHTING PLAN
002	C	09/17/2018	FOOTCANDLE PLAN

RE-ISSUED FOR
PERMITS
09/17/2018
MATRIX TECHNOLOGIES
D54383

C	09/17/18	MTI	MTI			RE-ISSUED FOR PERMITS
B	01/26/18	MTI	MTI			ISSUED FOR PERMITS
A	12/15/17	MTI	MTI			ISSUED FOR REVIEW
No.	DATE	BY	CHK	APP	APP	DESCRIPTION
ORIGINATION	BY	DATE				
DRAWN	JCL	11/06/17				
DESIGN	MTI	11/06/17				
CHECKED	ARF	01/24/18				
APPROVAL	BY	DATE				
I/E Eng.						
Civ. Eng.						
Ppl. Eng.						
Pjt. Mgr.						
Mng. Rep.						
						REVISIONS
						BASF The Chemical Company
						TITLE SHEET
						PARKING LOT ADDITION BASF BRIGHTON, CO
						DRAWING NUMBER
						0005- BRI- C0- 001
						REV
						C
						CAD INFORMATION
APPRO. No.						
PROJECT No.		D54383				
SITE		BRT				
SCALE		AS NOTED				
						THIS DRAWING AND DESIGN, INCLUDING, BUT NOT LIMITED TO ALL PATENTABLE FEATURES SEPARATELY OR COLLECTIVELY SHOWN ARE THE PROPERTY OF BASF CORPORATION AND ARE NOT TO BE REPRODUCED IN WHOLE OR IN PART, NOR EMPLOYED FOR ANY PURPOSE OTHER THAN SPECIFICALLY PERMITTED IN WRITING BY BASF CORPORATION. THIS DRAWING IS LOANED SUBJECT TO RETURN ON DEMAND.

BASF BRIGHTON – PARKING LOT – GENERAL NOTES AND SPECIFICATIONS

GENERAL NOTES:

- ALL WORK SHALL BE IN COMPLIANCE WITH ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, STANDARDS AND REGULATIONS. WHERE CALLED FOR, COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARDS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR CONSTRUCTION 2017 EDITION.
- THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED BY FIELD CHECKS AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, HOWEVER, MTI ENGINEERING CORP., DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS. THE EXACT LOCATION OF EXISTING UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATIONS TO EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THEIR VERTICAL AND HORIZONTAL LOCATION AND THEIR EFFECT ON THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL EXCAVATE TEST PITS AS NECESSARY TO VERIFY THE LOCATION AND DEPTH OF UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR SHALL FIELD VERIFY EXISTING SITE CONDITIONS (ABOVE AND UNDERGROUND) AS WELL AS ALL DIMENSIONS AND ELEVATIONS ASSOCIATED WITH THIS PACKAGE PRIOR TO CONSTRUCTION. ANY FOUND DISCREPANCIES OF THE EXISTING UTILITIES AND TOPOGRAPHY SHALL BE BROUGHT TO BASF'S ATTENTION FOR RESOLUTION BEFORE PROCEEDING WITH ANY WORK.
- THE CONTRACTOR AT ALL TIMES SHALL FOLLOW ALL STATE AND LOCAL SAFETY REQUIREMENTS DURING CONSTRUCTION OF THIS PROJECT. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM BASF EVERY MORNING PRIOR TO STARTING WORK. ALL PERSONNEL ACCESSING THE FACILITY SHALL COMPLY WITH BASF'S SAFETY REQUIREMENTS, INCLUDING SAFETY TRAINING. SPECIAL CARE SHALL BE TAKEN DURING ALL TRENCHING OPERATIONS. SHEETING AND BRACING, CRIBBING, ETC., MUST BE INSTALLED AS REQUIRED TO PROVIDE MAXIMUM SAFETY TO THE CONTRACTOR'S WORKERS IN FULL COMPLIANCE WITH CURRENT OSHA REGULATIONS AND BASF'S EXCAVATIONS PROCEDURES. REFER TO BASF TECHNICAL STANDARDS FOR ADDITIONAL DETAILS AND REQUIREMENTS.
- BASF'S PLANT/BUILDING OPERATIONS SHALL BE MAINTAINED AT ALL TIMES – CONTRACTOR SHALL KEEP EXISTING STREETS, ROADS AND DRIVES CLEAR OF CONSTRUCTION RELATED DIRT, DEBRIS AND EQUIPMENT.
- CONSTRUCTION SCHEDULE AND TRAFFIC MAINTENANCE SHALL BE APPROVED BY BASF. ALL TIE IN WORK SHALL BE COORDINATED AND APPROVED BY BASF.
- THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ANY TEMPORARY FACILITIES AND LAYDOWN AREAS WITH BASF.
- STORE ANY FUEL, OIL, OR CHEMICALS WITHIN SECONDARY CONTAINMENT STRUCTURES AND HAVE READILY AVAILABLE ADEQUATE QUANTITIES OF ABSORBENT MATERIALS ON SITE. IN THE EVENT OF A SPILL, IMMEDIATELY INITIATE CONTAINMENT AND CLEANUP IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REQUIREMENTS. ALL CONSTRUCTION EQUIPMENT SHALL BE MAINTAINED IN GOOD REPAIR TO AVOID LEAKAGE IN THE WORK SITES.
- THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING CONSTRUCTION INSPECTION, IF REQUIRED, FOR ALL WORK PERFORMED ON THIS PROJECT WITH THE APPROPRIATE STATE AND/OR LOCAL GOVERNING AGENCY.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND/OR LICENSES REQUIRED FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- AT EXISTING SIDEWALKS/PAVEMENT, CONTRACTOR SHALL SAW CUT IN A NEAT, STRAIGHT LINE TO PROVIDE A SMOOTH VERTICAL SURFACE. ASPHALT/CONCRETE REMOVED SHALL BE REPLACED WITH MATERIAL AND THICKNESS TO MATCH EXISTING.
- ALL MISCELLANEOUS INTERFERENCES (LIGHTS, SIGNS, GUARD POSTS, ETC.) REQUIRED TO BE REMOVED FOR CONSTRUCTION SHALL BE REINSTALLED TO MATCH EXISTING CONDITIONS.
- AFTER COMPLETION OF EXCAVATION WORK, CONTRACTOR SHALL RE-GRADE SITE TO MATCH EXISTING CONDITIONS. GROUND COVER (STONE, SOD/GRASS, ETC.) REMOVED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED TO MATCH EXISTING.
- THE CONTRACTOR SHALL MAINTAIN A SET OF "RED-LINE" MARK UPS DOCUMENTING ANY CHANGES TO THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE TO SUBMIT A SET OF "RED-LINE" MARK UPS TO BASF UPON COMPLETION OF CONSTRUCTION.
- THE SPECIFICATIONS OF THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), AMERICAN WATER WORKS ASSOCIATION (AWWA), AND THE AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) HEREIN REFERRED TO, UNLESS OTHERWISE NOTED, SHALL BE THE LATEST SPECIFICATIONS OF THE RESPECTIVE ORGANIZATIONS.

UNDERGROUND PIPING:

- SEWER PIPE AND FITTINGS SHALL BE CLASS 350 MECHANICAL JOINT DUCTILE IRON. PIPING AND FITTINGS SHALL BE IN ACCORDANCE WITH ASTM A746 AND ANSI/AWWA C151/A21.51. DUCTILE IRON SEWER PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/AWWA C600.
- ALL DUCTILE IRON PIPE AND FITTINGS SHALL HAVE MECHANICAL JOINTS MEETING THE REQUIREMENTS OF ANSI/AWWA C110/A21.10 FOR FULL BODIED FITTINGS AND ANSI/AWWA C153/A21.53 FOR COMPACT FITTINGS. ALL NUTS AND BOLTS FOR MECHANICAL JOINT CONNECTIONS SHALL BE 316 STAINLESS STEEL.
- MECHANICAL JOINTS SHALL HAVE VITON RUBBER GASKETS MEETING THE REQUIREMENTS OF ANSI/AWWA C1111/A21.11.
- ALL DUCTILE IRON PIPE AND FITTINGS SHALL HAVE POLYETHYLENE ENCASEMENT CONFORMING TO ANSI/AWWA C105/A21.5.
- DUCTILE IRON PIPE AND FITTINGS SHALL HAVE AN INTERIOR CEMENT MORTAR LINING CONFORMING TO ANSI/AWWA C104/A21.4. PIPE AND FITTINGS SHALL ALSO HAVE AN EXTERNAL COAL TAR ENAMEL COATING PER AWWA C203.

BASF TECHNICAL STANDARDS:

ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH APPLICABLE BASF TECHNICAL STANDARDS, AS LISTED BELOW. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH REQUIREMENTS OF THE LATEST AVAILABLE EDITION.

G-S-CL 100 M MINIMUM SAFETY AND HEALTH REQUIREMENTS – CIVIL AND STRUCTURE WORK

G-S-CN 100 M MINIMUM SAFETY AND HEALTH REQUIREMENTS – CONSTRUCTION

G-S-PI 100 M MINIMUM SAFETY AND HEALTH REQUIREMENTS – PIPING

N-S-CL 400 SITE CLEARING AND GENERAL AREA EARTHWORK

N-S-CL 402 EXCAVATION AND BACKFILL FOR CONCRETE WORK AND ELECTRIC CABLE AND PIPE TRENCHES

N-S-CL 425 ROADWAY AND AREA PAVING

N-S-CN 001 GENERAL CONDITIONS FOR CONSTRUCTION SERVICES

N-S-CN 002 STORAGE AND PROTECTION OF CONSTRUCTION MATERIALS

N-S-PI 200 PIPING SPECIFICATIONS AND GENERAL NOTES

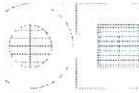
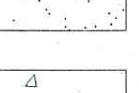
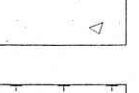
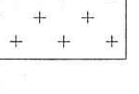
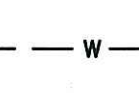
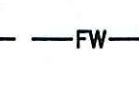
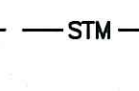
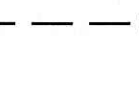
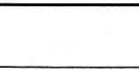
12-130-UT50 STORMWATER – UNDERGROUND

N-S-PI 211 PIPING INSTALLATION

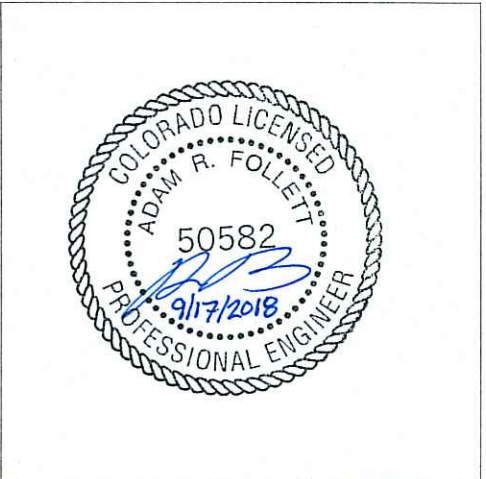
N-S-SF 307 PIPE COATINGS – UNDERGROUND

N-S-SF 453 PIPING SYSTEM ACCEPTANCE – F 4963, F 4964

LEGEND AND ABBREV.

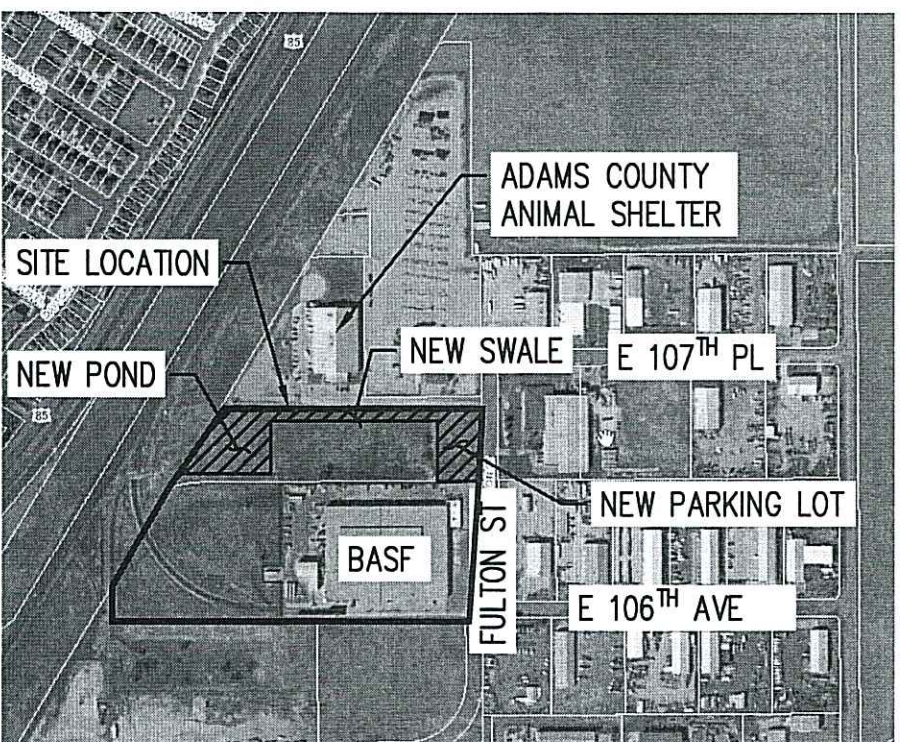
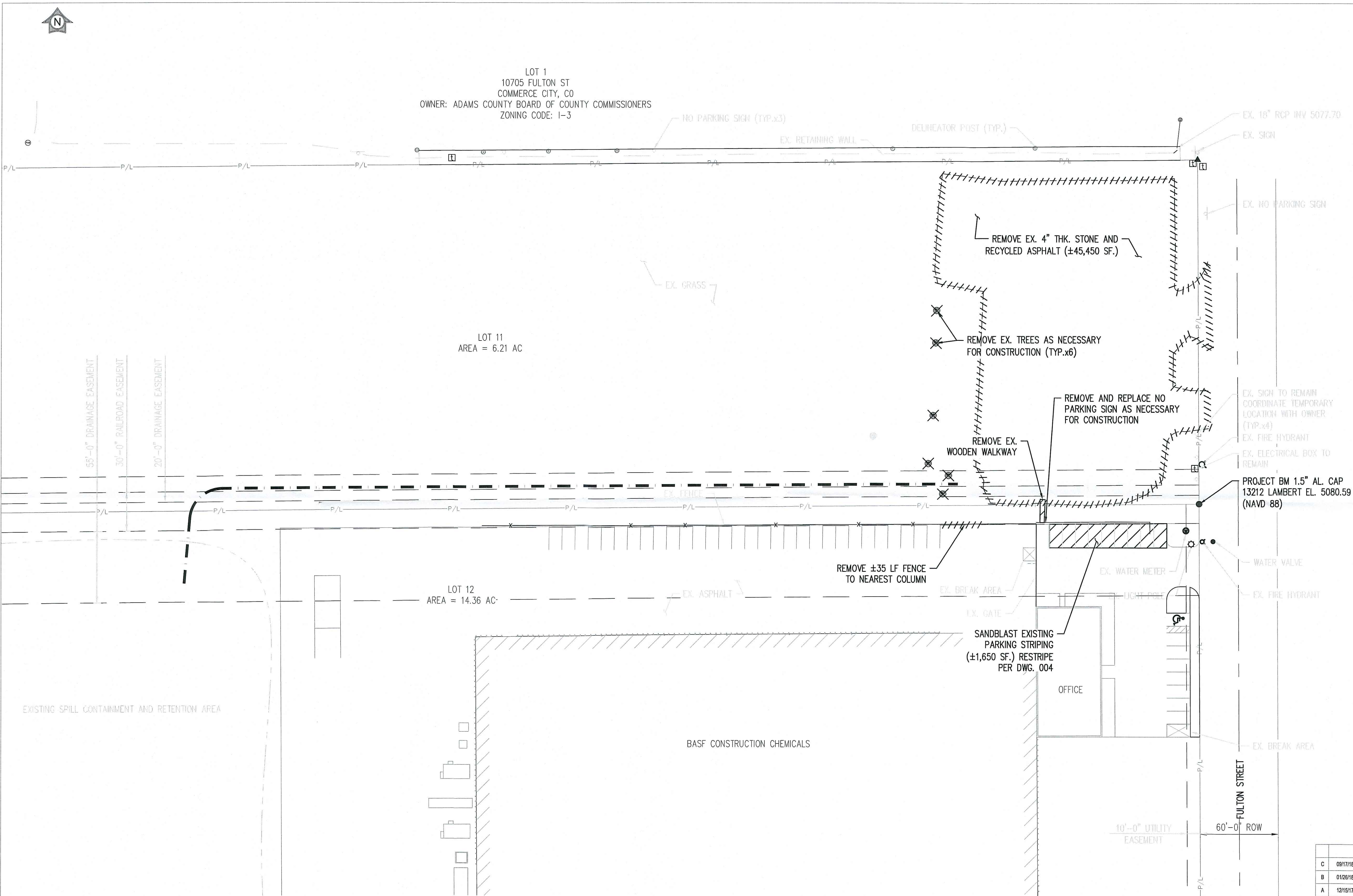
	BOLLARD	ABAND.	ABANDONED
	CATCH BASIN (CB)	DWG.	DRAWING
	VALVE/ POST INDICATOR (PIV)	EL.	ELEVATION
	MANHOLE (MH)	EX.	EXISTING
	POWER POLE	FL	FLOW LINE
	SURFACE DRAINAGE FLOW DIRECTION	HP	HIGH POINT
	ASPHALT PAVEMENT	INV.	INVERT ELEVATION
	CONCRETE PAVEMENT	LP	LOW POINT
	LANDSCAPE AREA	TYP.	TYPICAL
	LIMITS OF DEMOLITION	T/	TOP OF
	LIMITS OF GRADING	B/	BOTTOM OF
	CITY WATER (CW)	TD	TRENCH DRAIN
	FIRE WATER (FW)	X 000.00	PROPOSED ELEVATION
	STORM SEWER (STM)	X 000.00	EXISTING ELEVATION
	ELECTRIC (E)		
	DRAINAGE SWALE		
	PROPERTY LINE		

RE-ISSUED FOR PERMITS
09/17/2018
MATRIX TECHNOLOGIES
D54383



Matrix Technologies
INCORPORATED
CORPORATE OFFICE: 1760 INDIAN WOOD CIRCLE - MAUMEE, OHIO 43537
(419) 897-7200 FAX: (419) 897-7214 E-MAIL: matrix@matrixtl.com
BOULDER, COLORADO - INDIANAPOLIS, INDIANA - CLEVELAND, OHIO

C	09/17/18	MTI	MTI			RE-ISSUED FOR PERMITS			
B	01/28/18	MTI	MTI			ISSUED FOR PERMITS			
A	12/15/17	MTI	MTI			ISSUED FOR REVIEW			
No	DATE	BY	CHK	APP	APP				
						DESCRIPTION			
						REVISIONS			
ORIGINATION		BY	DATE		 The Chemical Company				
DRAWN		JCL	11/06/17						
DESIGN		MTI	11/06/17						
CHECKED		ABF	01/24/18						
APPROVAL		BY	DATE						
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I/E Eng.									
Civ. Eng.									
Pjt. Eng.									
Pjt. Mgr.									
Mfg. Rep.						DRAWING NUMBER			
						0005- BRI- C0- 002			
						C			
						SITE	LOCATION	TYPE	NUMBER
						CAD INFORMATION			
APPRO. No.									
PROJECT No.						D54383			
SITE						BRT			
SCALE						AS NOTED			
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LOCATION MAP

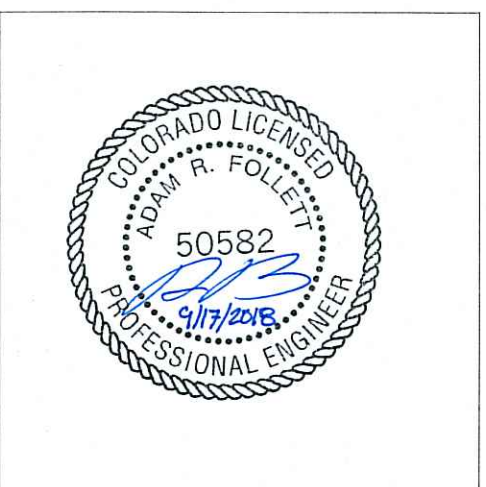
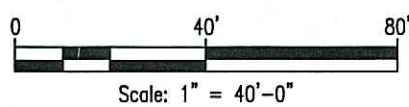
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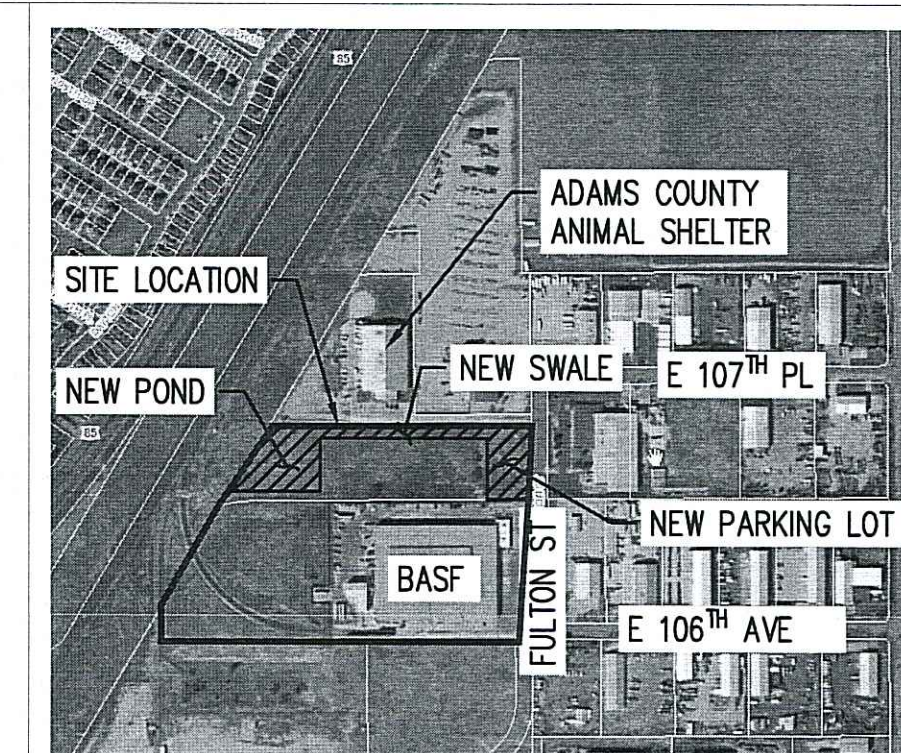
TITLE SHEET & DRAWING LIST	001
GENERAL NOTES & LEGEND	002
INSTALLATION DETAILS	009

RE-ISSUED FOR PERMITS
09/17/2018
MATRIX TECHNOLOGIES
D54383

DEMOLITION PLAN



C	09/17/18	MTI	MTI			RE-ISSUED FOR PERMITS
B	01/28/18	MTI	MTI			ISSUED FOR PERMITS
A	12/15/17	MTI	MTI			ISSUED FOR REVIEW
No	DATE	BY	CHK	APP	APP	DESCRIPTION
ORIGINATION						REVISIONS </



SCALE: NONE

TITLE SHEET & DRAWING LIST
GENERAL NOTES & LEGEND
INSTALLATION DETAILS
LANDSCAPING PLAN

001
002
009
011

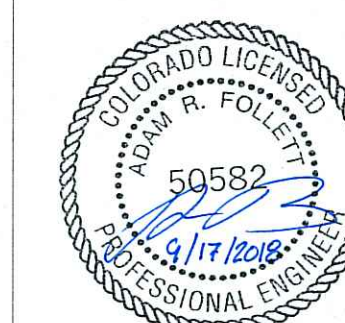
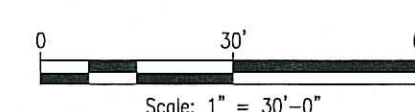
LARGEST NUMBER OF EMPLOYEES PER SHIFT 70

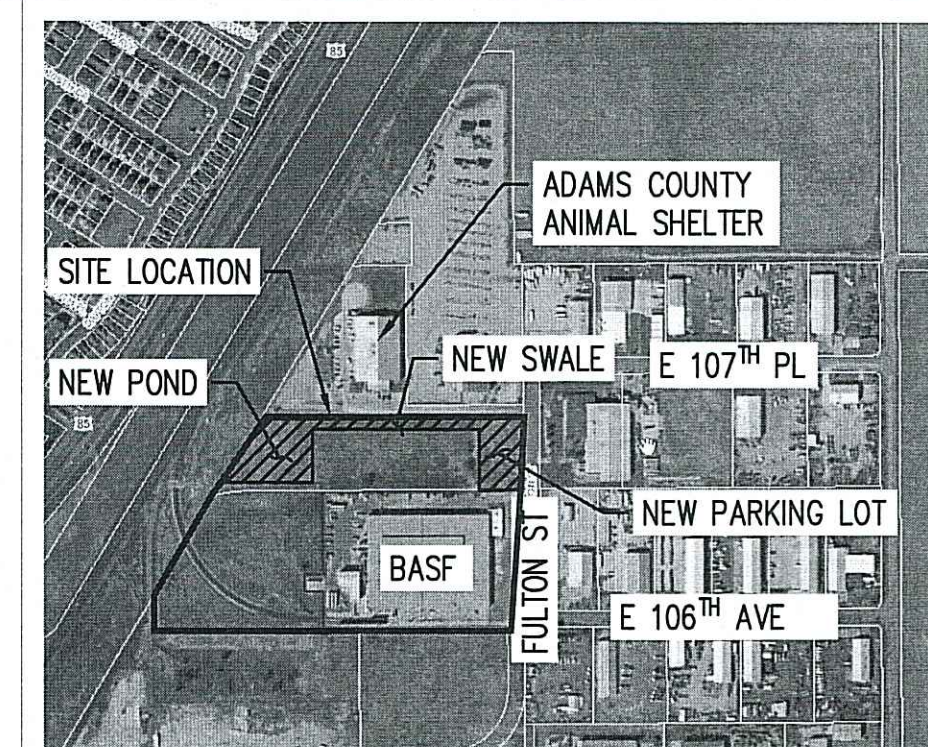
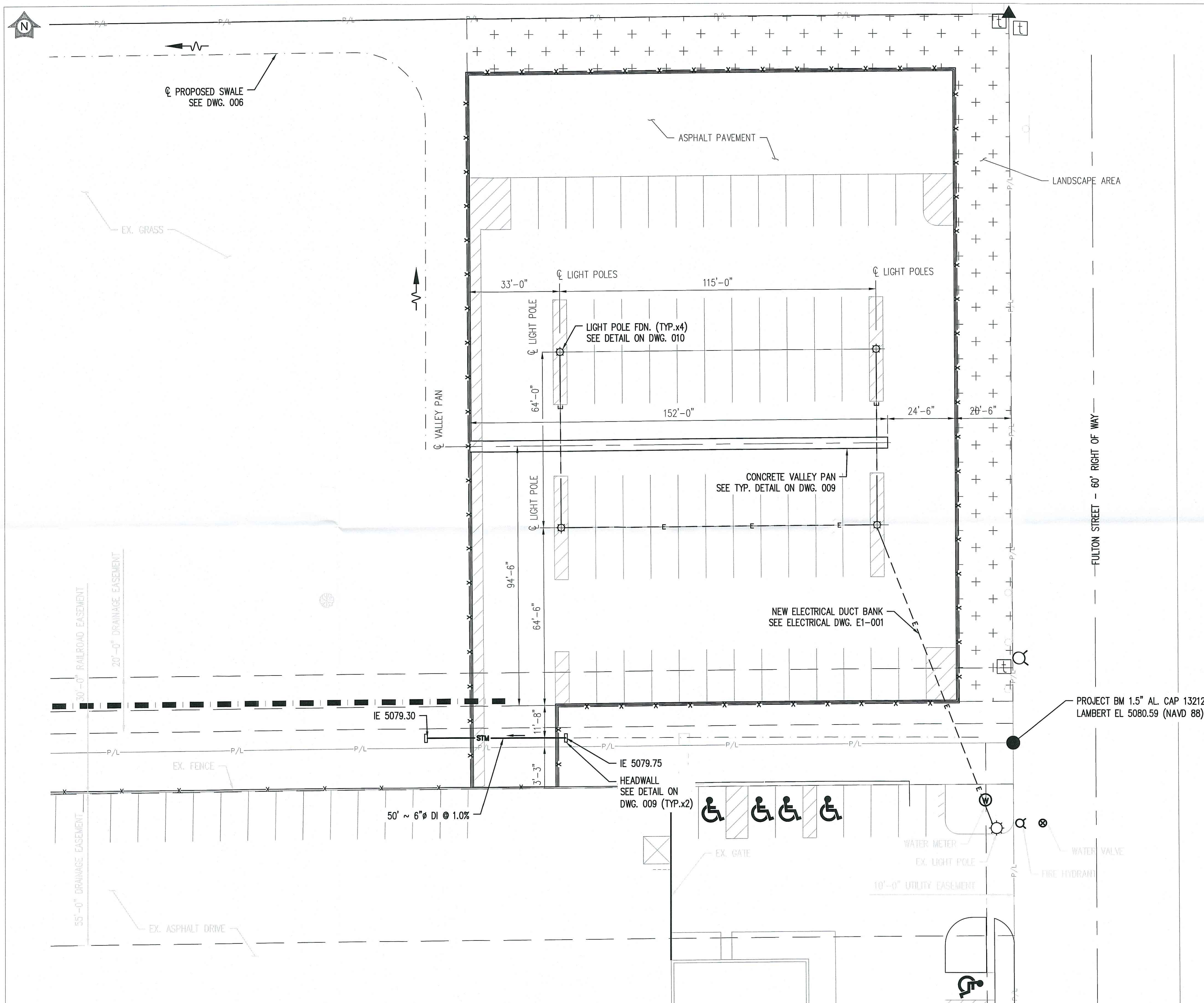
NEW ADA SPACES PROVIDED	4
NEW SPACES PROVIDED	72
EXISTING ADA SPACES	1
EXISTING SPACES	40
TOTAL SPACES	117



C	09/17/18	MTI	MTI		RE-ISSUED FOR PERMITS
B	01/26/18	MTI	MTI		ISSUED FOR PERMITS
A	12/15/17	MTI	MTI		ISSUED FOR REVIEW
No.	DATE	BY	CHK/APP	APP	DESCRIPTION
REVISIONS					
APPROVAL		BY	DATE		
DRAWN		JCL	11/06/17		
DESIGN		MTI	11/06/17		
CHECKED		ARF	01/24/18		
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Civ. Eng.					
Prj. Eng.					
Prj. Mgr.					
Mfg. Rep.					
APPRO. No.					
PROJECT No.		D54383			
SITE		BRT			
SCALE		AS NOTED			
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SITE PLAN





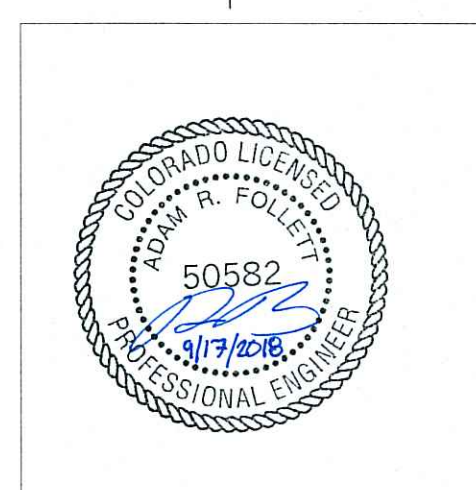
LOCATION MAP
SCALE: NONE

GENERAL REFERENCES:

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GENERAL NOTES & LEGEND	002
INSTALLATION DETAILS	009
INSTALLATION DETAILS	010

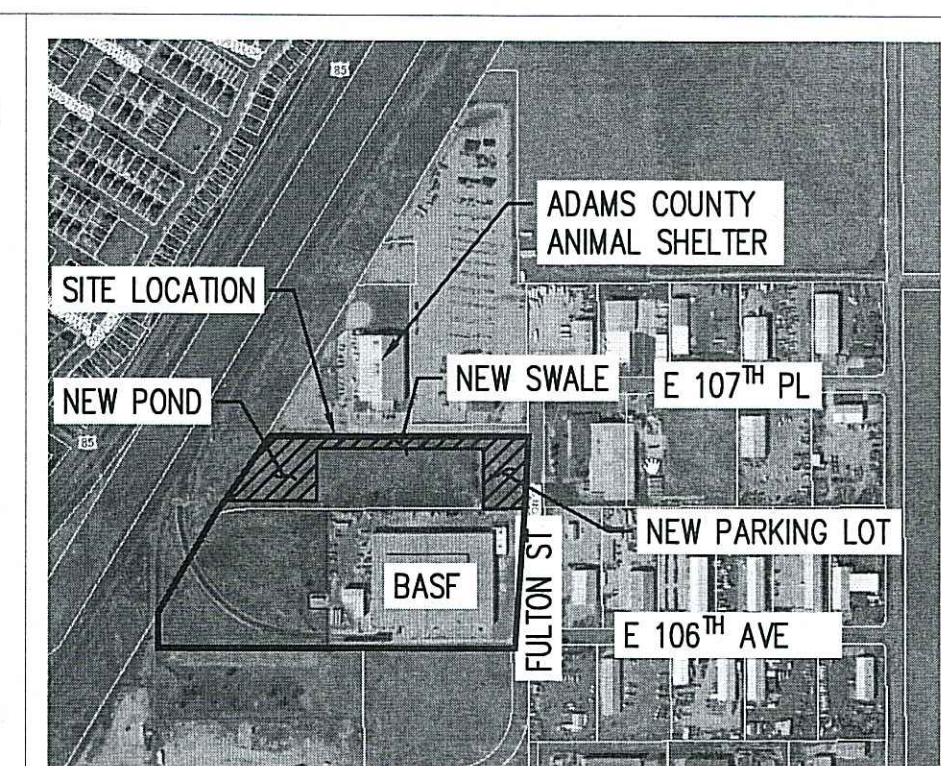
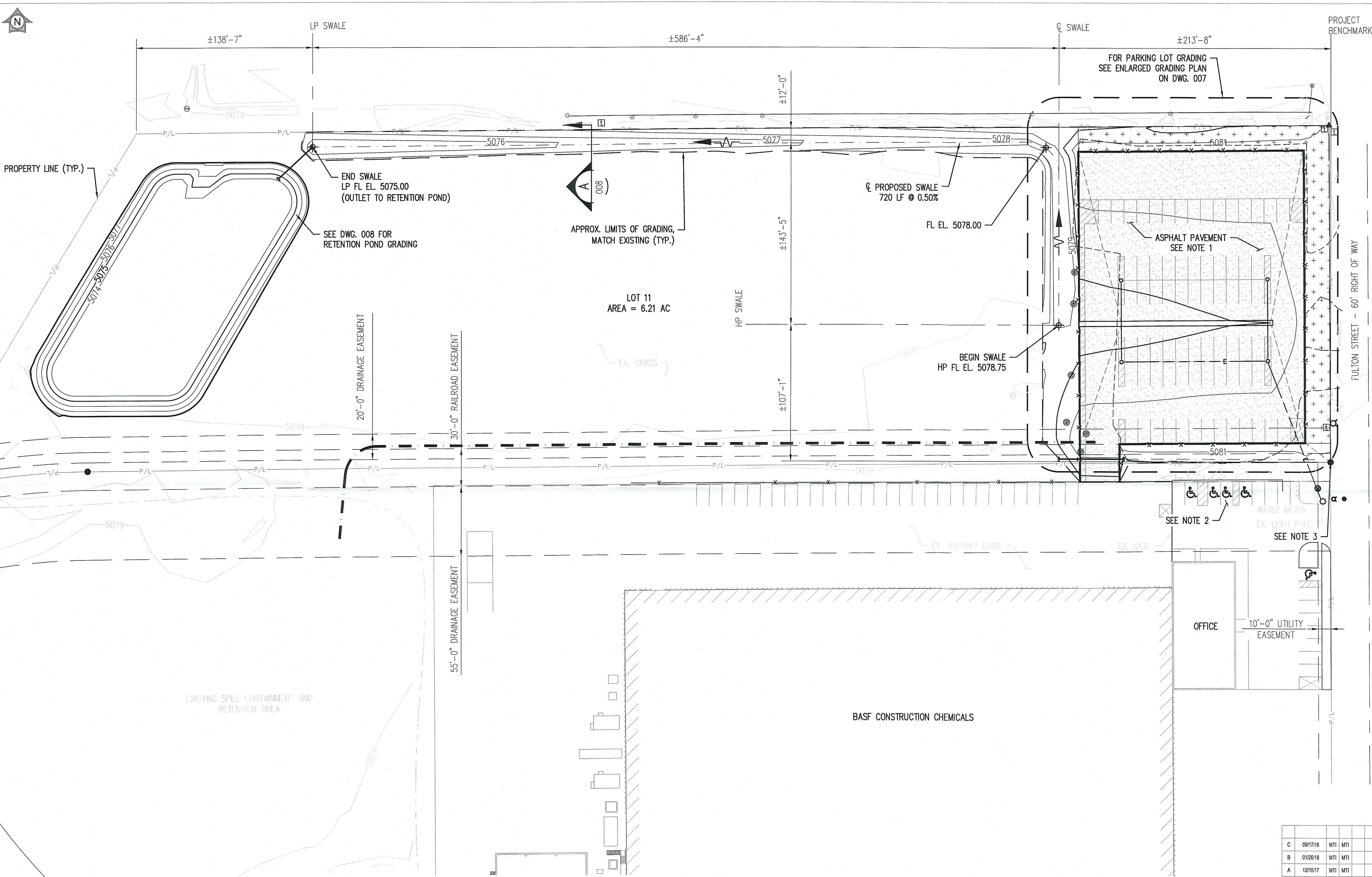
RE-ISSUED FOR PERMITS
09/17/2018
MATRIX TECHNOLOGIES
D54383

UTILITY PLAN
Scale: 1" = 20'-0"



Matrix Technologies
INCORPORATED
CORPORATE OFFICE: 1760 INDIAN WOOD CIRCLE - MAUMEE, OHIO 43537
(419) 897-7200 FAX: (419) 897-7214 E-MAIL: matrix@matrixtech.com
BOULDER, COLORADO - INDIANAPOLIS, INDIANA - CLEVELAND, OHIO

C	09/17/18	MTI	MTI	RE-ISSUED FOR PERMITS
B	01/08/18	MTI	MTI	ISSUED FOR PERMITS
A	12/15/17	MTI	MTI	ISSUED FOR REVIEW
No	DATE	BY	CHK/APP/APP	DESCRIPTION
REVISIONS				
ORIGINATOR	BY	DATE	BASF The Chemical Company UTILITY PLAN PARKING LOT ADDITION BASF BRIGHTON, CO	
DRAWN	JCL	11/08/17		
DESIGN	MTI	11/08/17		
CHECKED	ARF	01/24/18		
APPROVAL	BY	DATE		
I/E Eng.			DRAWING NUMBER 0005- BRI- C1- 005 REV C	
Civ. Eng.				
Prj. Eng.				
Prj. Mgr.				
Mfg. Rep.				
				CAD INFORMATION
APPRO. No.				
PROJECT No.	D54383			
SITE	BRT			
SCALE	AS NOTED			THIS DRAWING AND DESIGN INCLUDING, BUT NOT LIMITED TO ALL PATENTABLE FEATURES SEPARATELY OR COLLECTIVELY SHOWN ARE THE PROPERTY OF BASF CORPORATION AND ARE NOT TO BE REPRODUCED IN WHOLE OR IN PART, NOR EMPLOYED FOR ANY PURPOSE OTHER THAN SPECIFICALLY PERMITTED IN WRITING BY BASF CORPORATION. THIS DRAWING IS LOANED SUBJECT TO RETURN ON DEMAND.



LOCATION MAP
SCALE: NONE

GENERAL REFERENCES:

TITLE SHEET & DRAWING LIST	001
GENERAL NOTES & LEGEND	002
ENLARGED GRADING PLAN	007
RETENTION POND & GRADING DETAILS	008
INSTALLATION DETAILS	009

- NOTES:
- ASPHALT PAVEMENT SHALL HAVE A 1.0% MIN. SLOPE TOWARDS DRAINAGE STRUCTURES TO FACILITATE DRAINAGE.
 - CONFIRM 2.0% MAX SLOPE IN ADA ACCESSIBLE SPACES & AISLES.
 - PROJECT BENCHMARK IS 1.5" AL. CAP 13212 LAMBERT EL 5080.59 (NAVD 88)

CUT AND FILL:

REQUIRED CUT:	3,937 CYD
REQUIRED FILL	1,902 CYD
NET:	2,035 CYD CUT

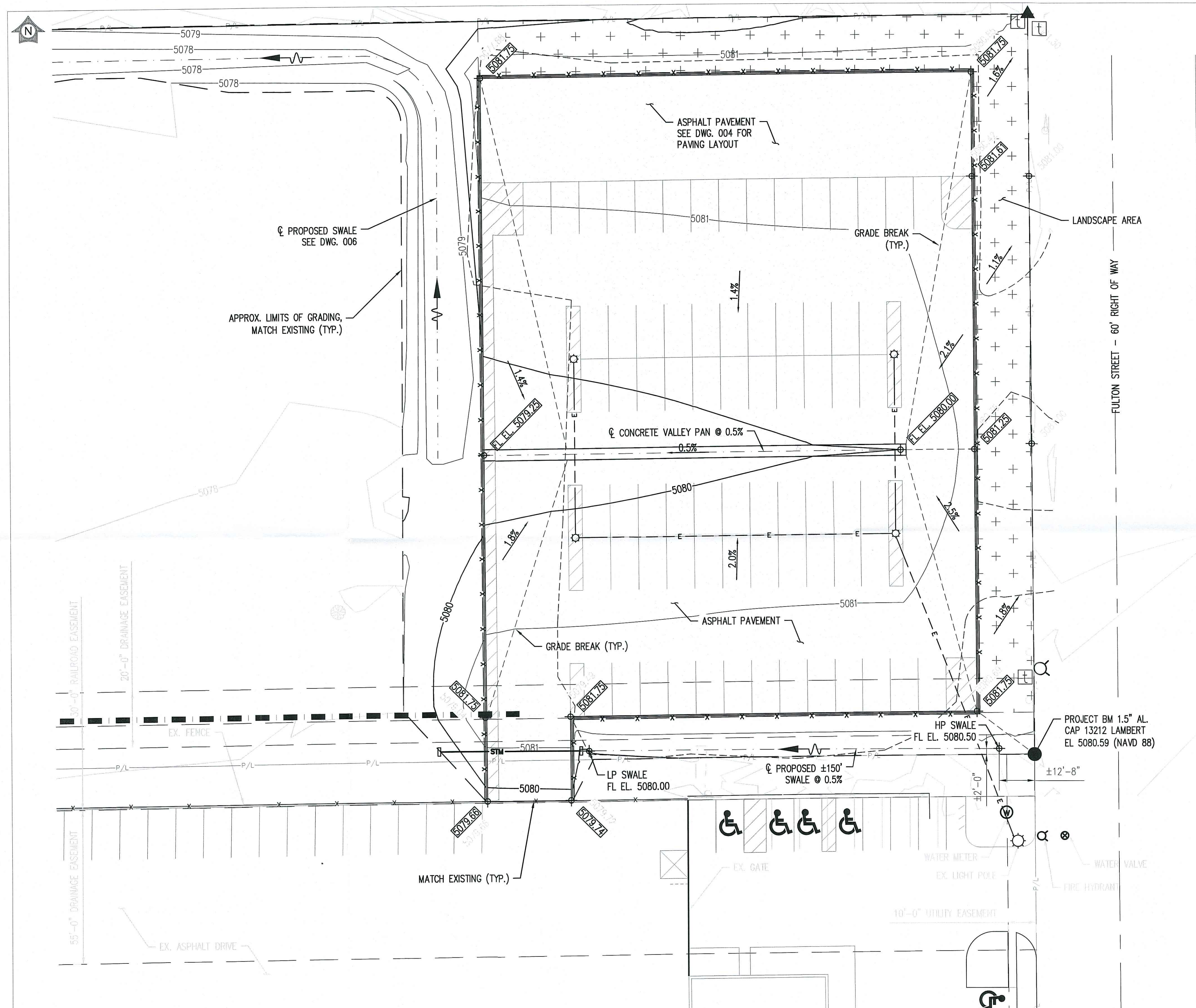
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MATRIX TECHNOLOGIES
D54383

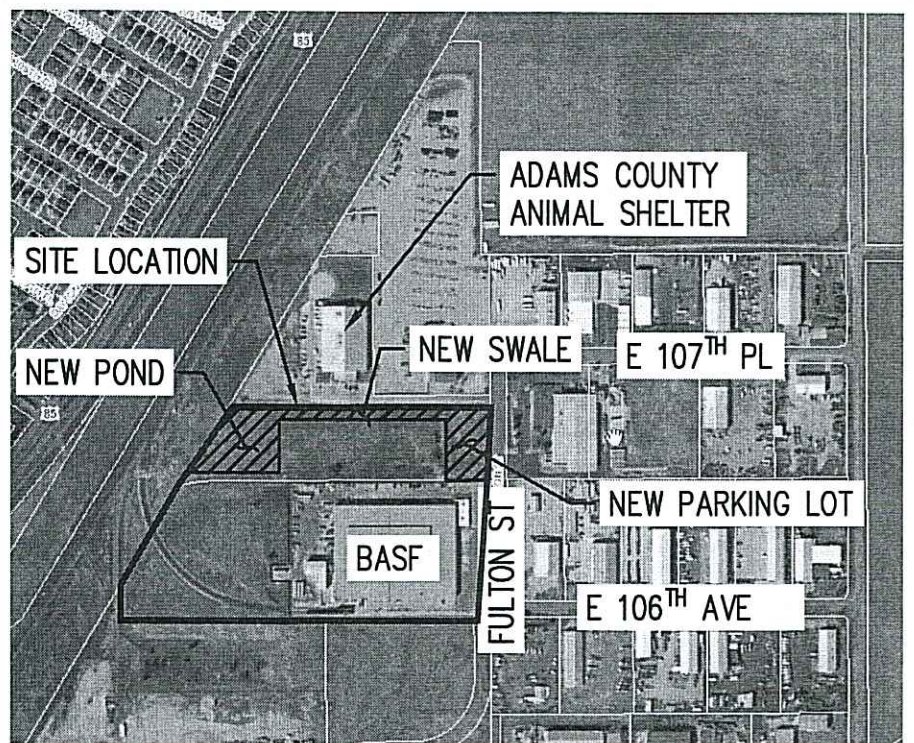
GRADING PLAN
Scale: 1" = 40'-0"



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No	DATE	BY	CHK	APP	APP
REVISIONS DESCRIPTION					
ORIGINATOR	BY	DATE			
DRAWN	JCL	11/06/17			
DESIGN	MTI	11/06/17			
CHECKED	ARF	01/24/18			
APPROVAL	BY	DATE			
IVE Eng.					
Civ. Eng.					
Prl. Eng.					
Prl. Mgr.					
Mfg. Rep.					
APPRO. No.					
PROJECT No.					
SITE					
SCALE					
D54383					
BRT					
AS NOTED					
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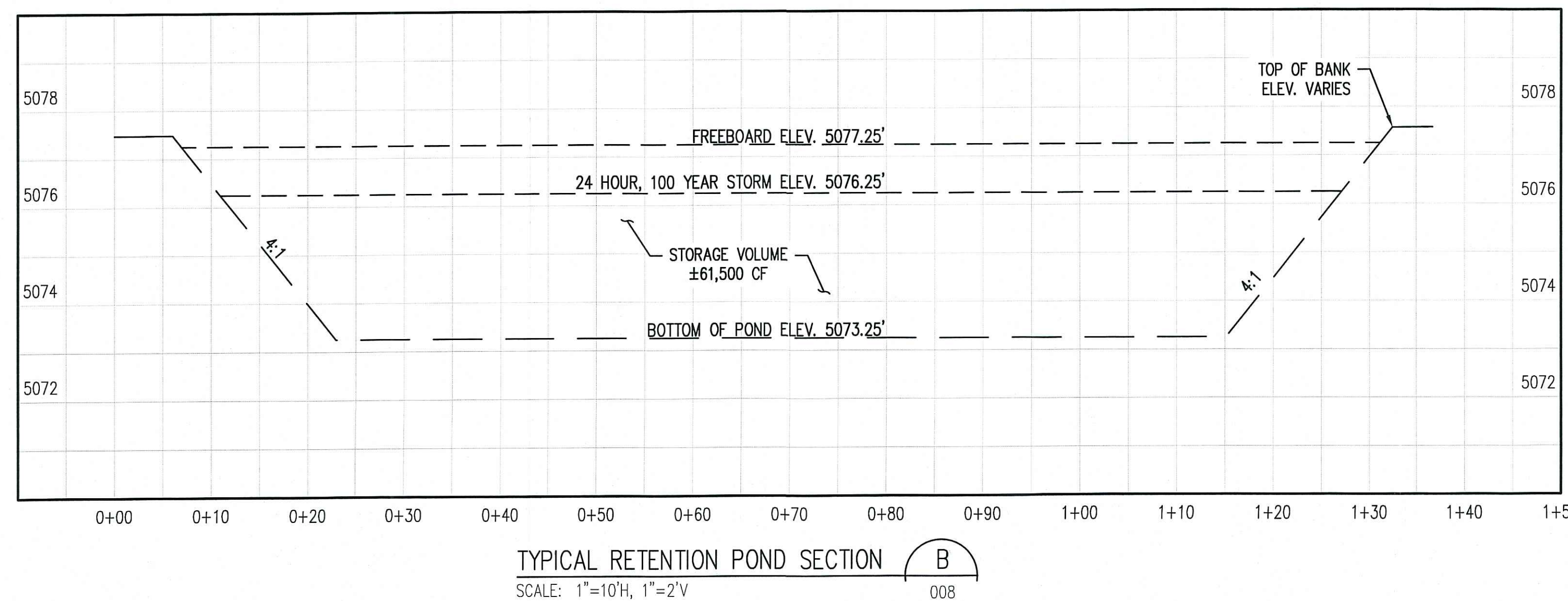
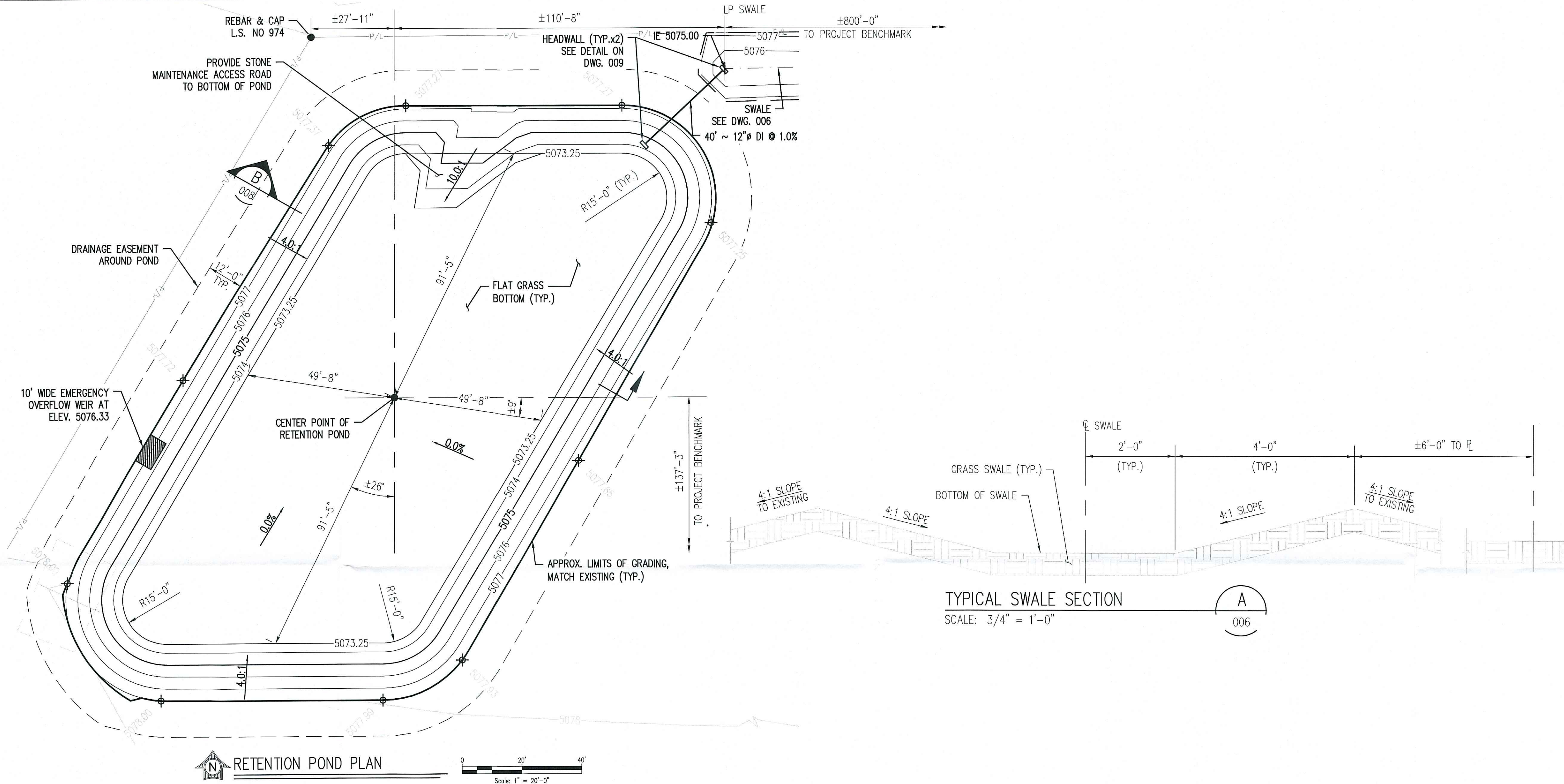


LOCATION MAP

SCALE: NONE

GENERAL REFERENCES:

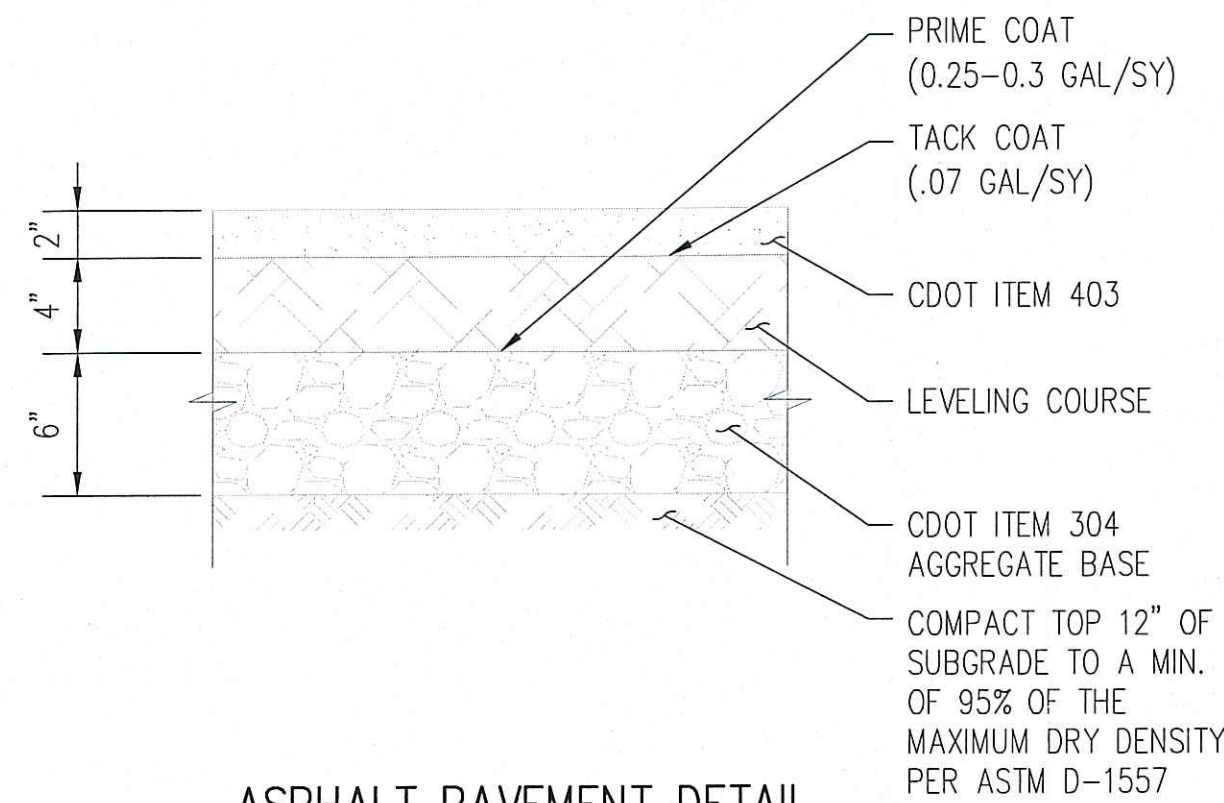
TITLE SHEET & DRAWING LIST	001
GENERAL NOTES & LEGEND	002
GRADING PLAN	006
ENLARGED GRADING PLAN	007
INSTALLATION DETAILS	009



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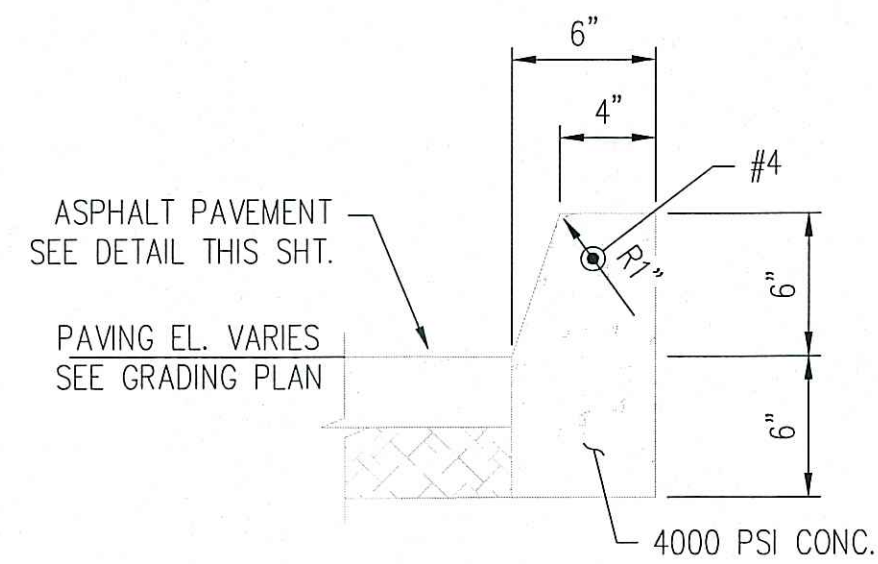
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D84383

C	09/17/18	MTI	MTI			RE-ISSUED FOR PERMITS
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No	DATE	BY	CHK	APP	APP	DESCRIPTION
REVISIONS						
ORIGINATOR		BY	DATE	 The Chemical Company RETENTION POND & GRADING DETAILS PARKING LOT ADDITION BASF BRIGHTON, CO		
DRAWN		JCL	11/06/17			
DESIGN		MTI	11/06/17			
CHECKED		ARF	01/24/18			
APPROVAL		BY	DATE			
I/E Eng.				DRAWING NUMBER 0005- BRI- C1- 008 C		
Civ. Eng.						
Prj. Eng.						
Prj. Mgr.						
Mfg. Rep.						
APPRO. No.				SITE LOCATION TYPE NUMBER CAD INFORMATION		
PROJECT No.		D54383				
SITE		BRT				
SCALE		AS NOTED				
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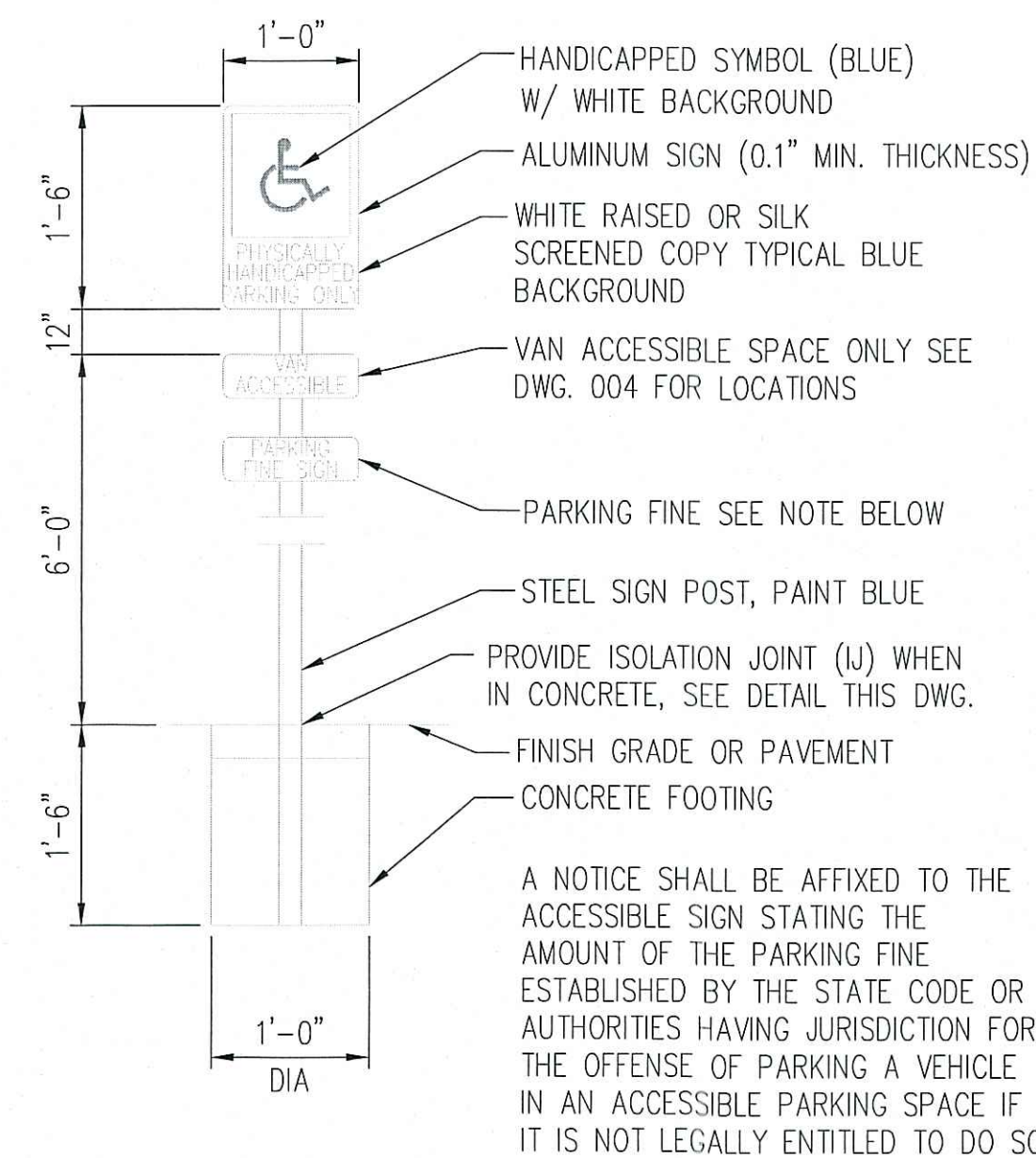
ASPHALT PAVEMENT DETAIL

SCALE: 1 1/2"=1'-0"



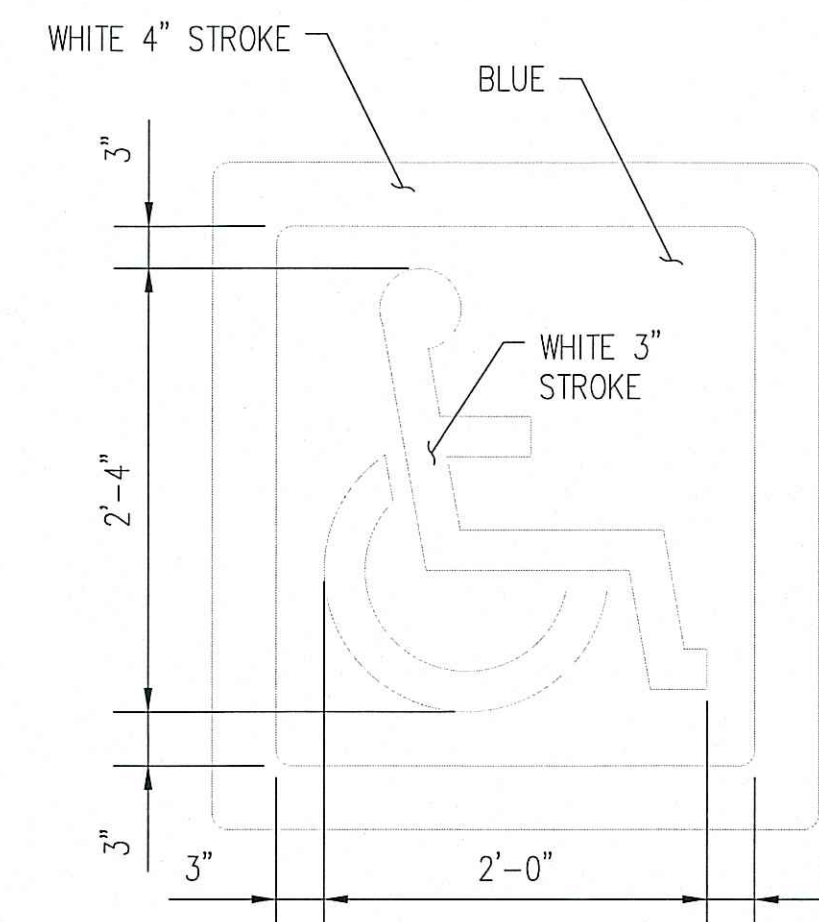
CONCRETE CURB DETAIL

SCALE: 1 1/2"=1'-0"
PROVIDE 1/2" EXPANSION JOINT MATERIAL EVERY 10'-0" (FULL DEPTH)



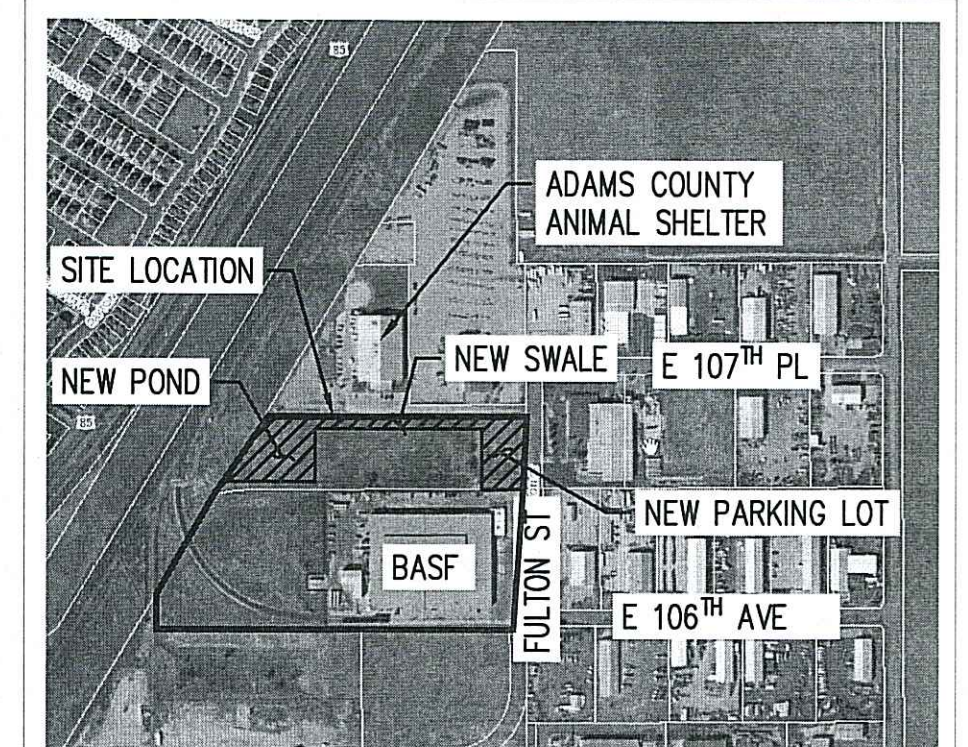
HANDICAP SIGN DETAIL

SCALE: 1"=20"



ACCESSIBLE PARKING SYMBOL DETAIL

SCALE: 1"=1'-0"

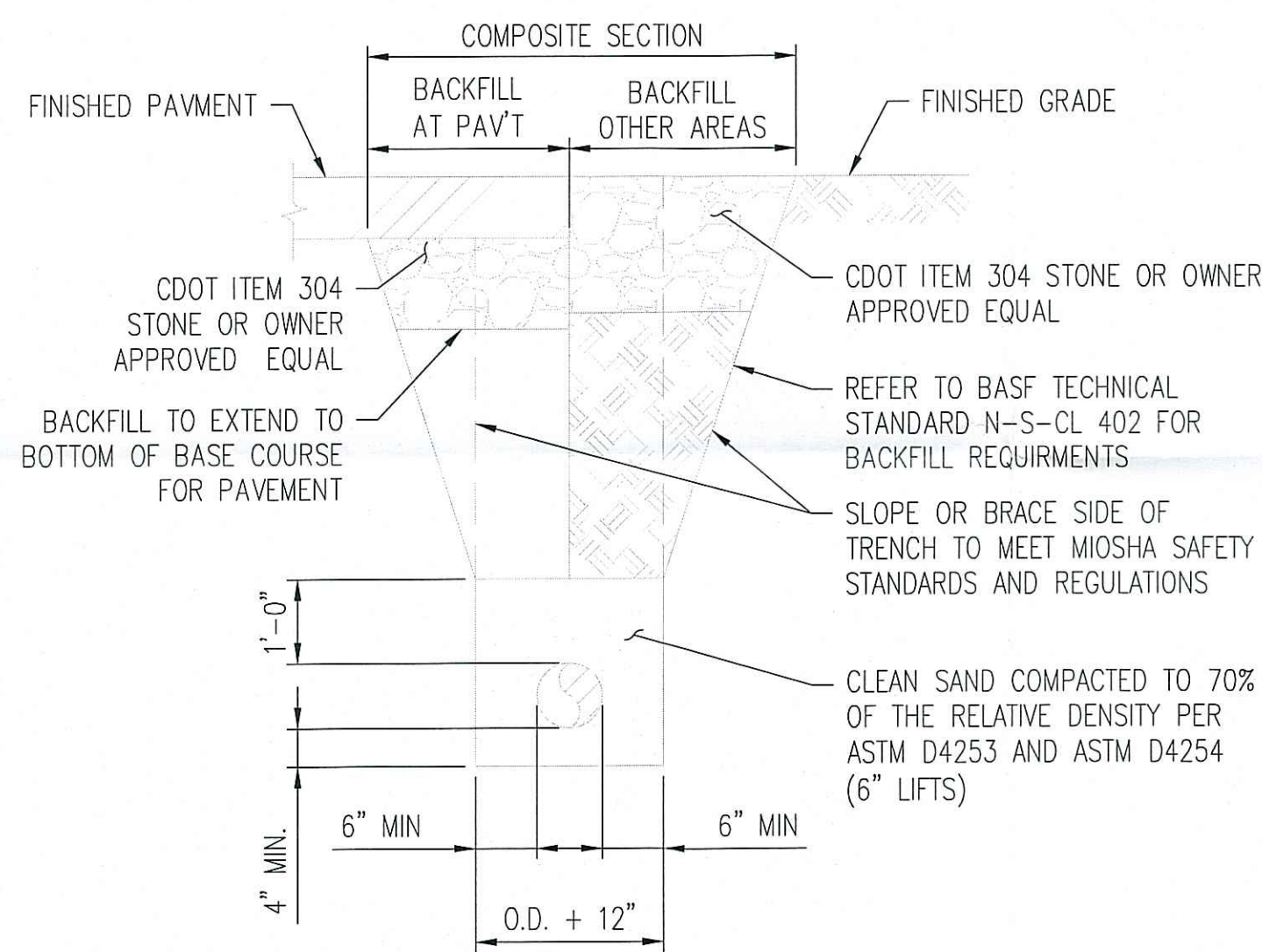


LOCATION MAP

SCALE: NONE

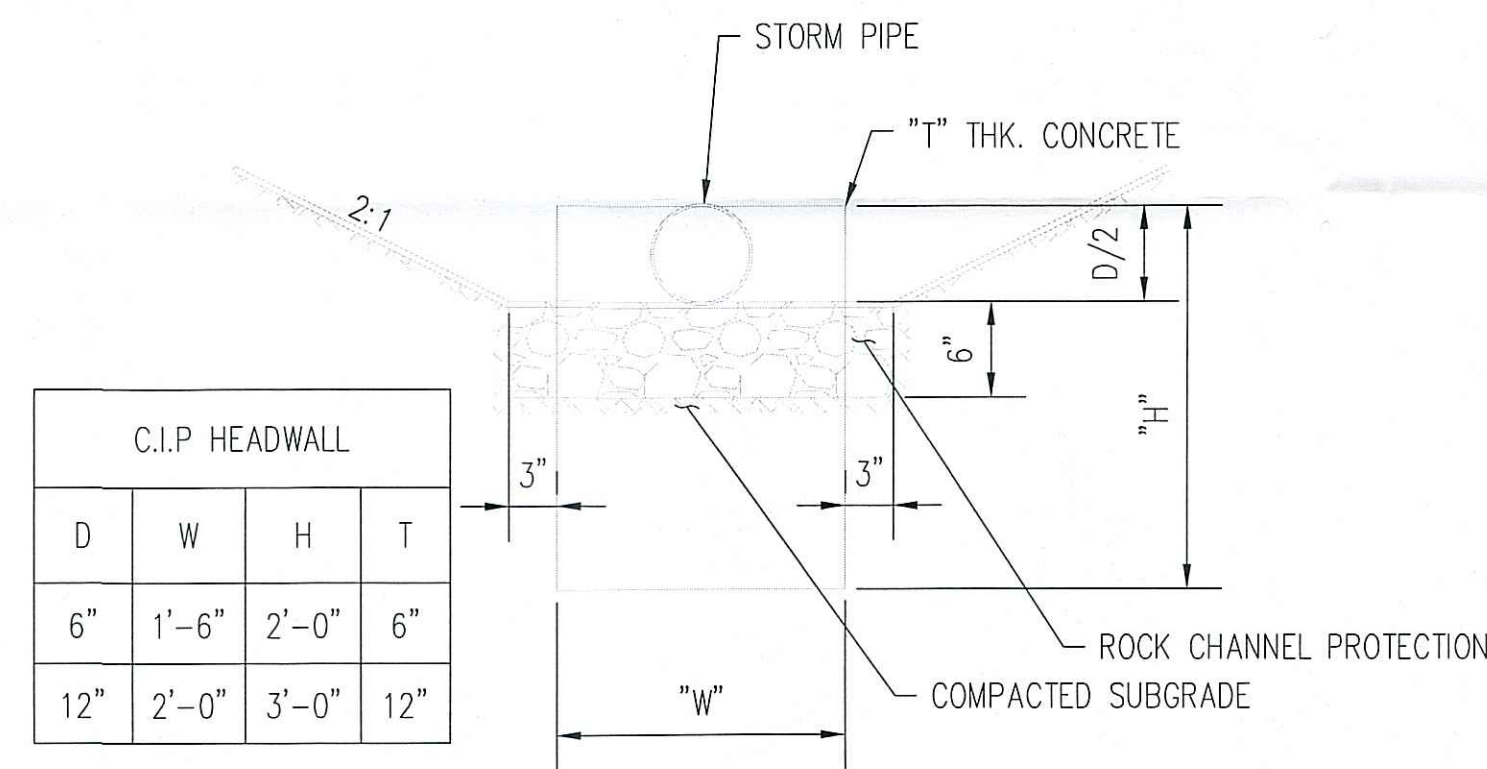
GENERAL REFERENCES:

TITLE SHEET & DRAWING LIST	001
SITE PLAN	004
UTILITY PLAN	005
GRADING PLAN	006



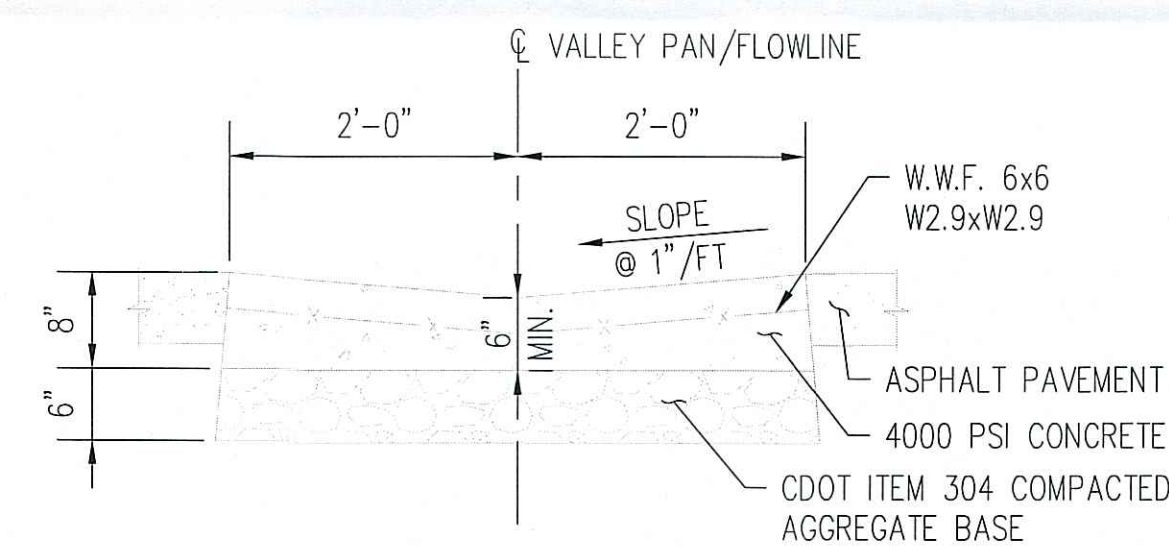
PIPE BEDDING & BACKFILL DETAIL

SCALE: 1/2"=1'-0"



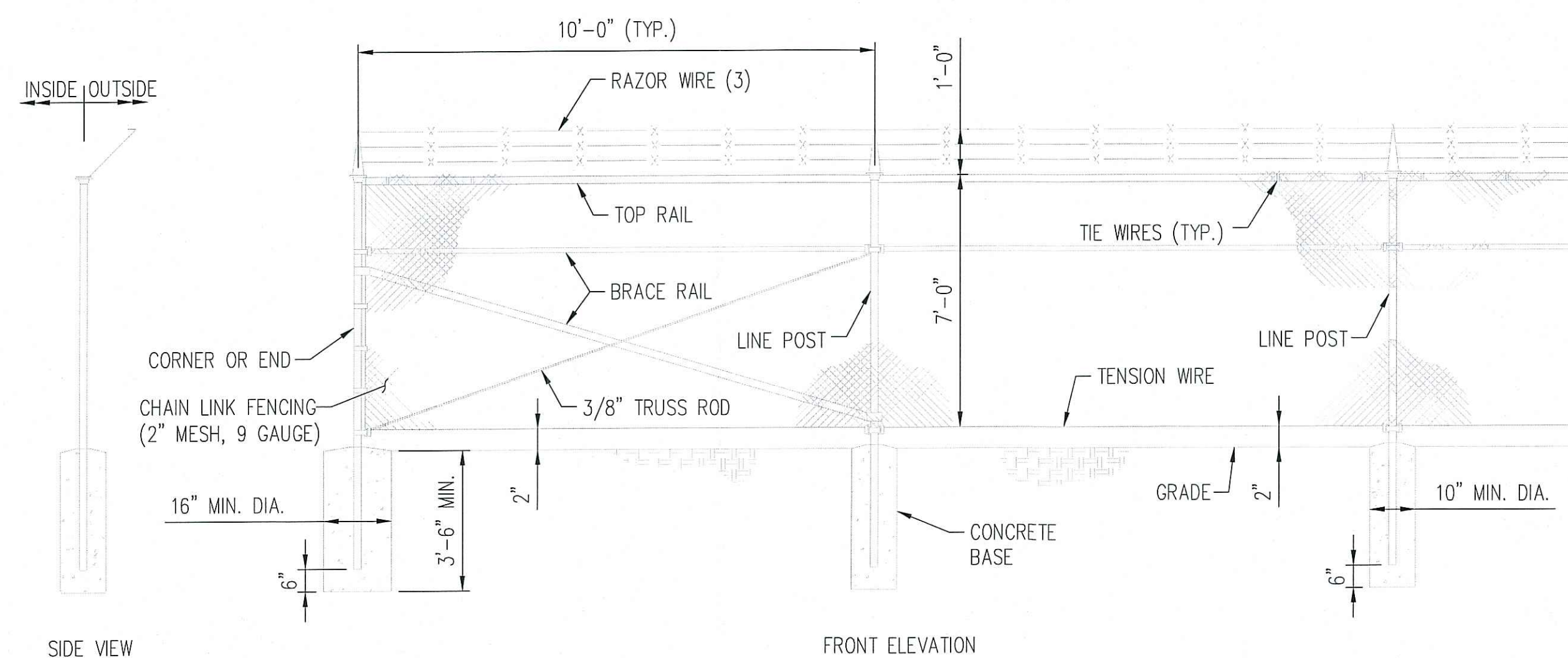
HALF HEIGHT HEAD WALL DETAIL

SCALE: 1"=1'-0"



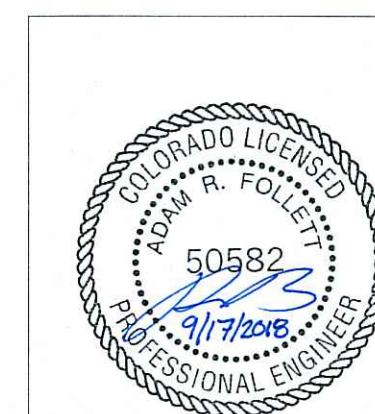
CONCRETE VALLEY PAN DETAIL

SCALE: NTS



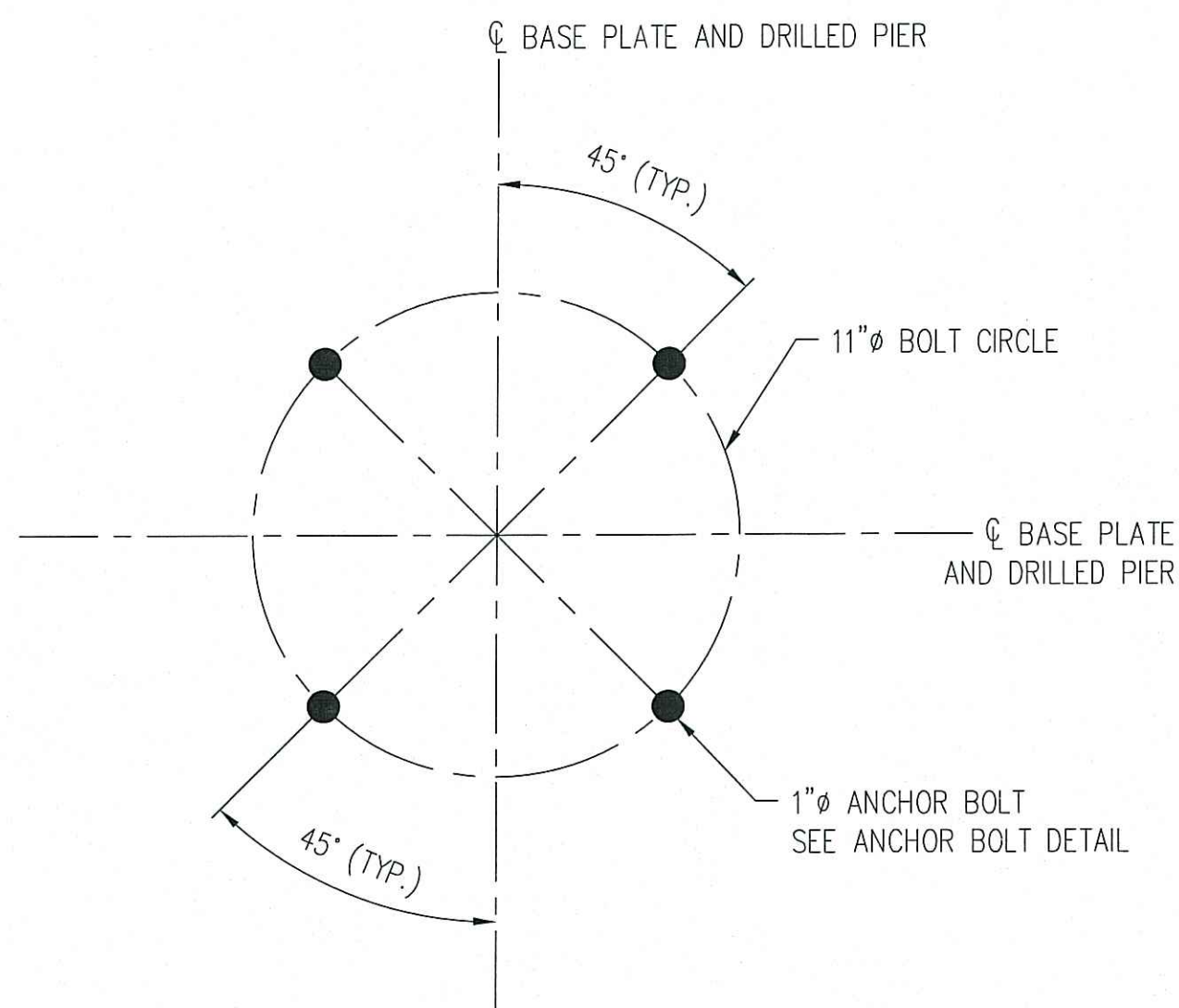
SECURITY FENCE DETAIL

SCALE: NTS

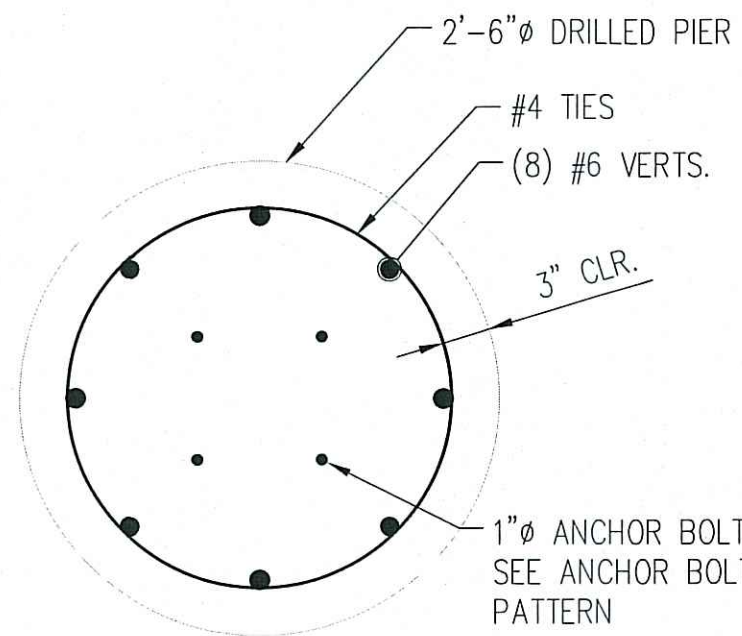


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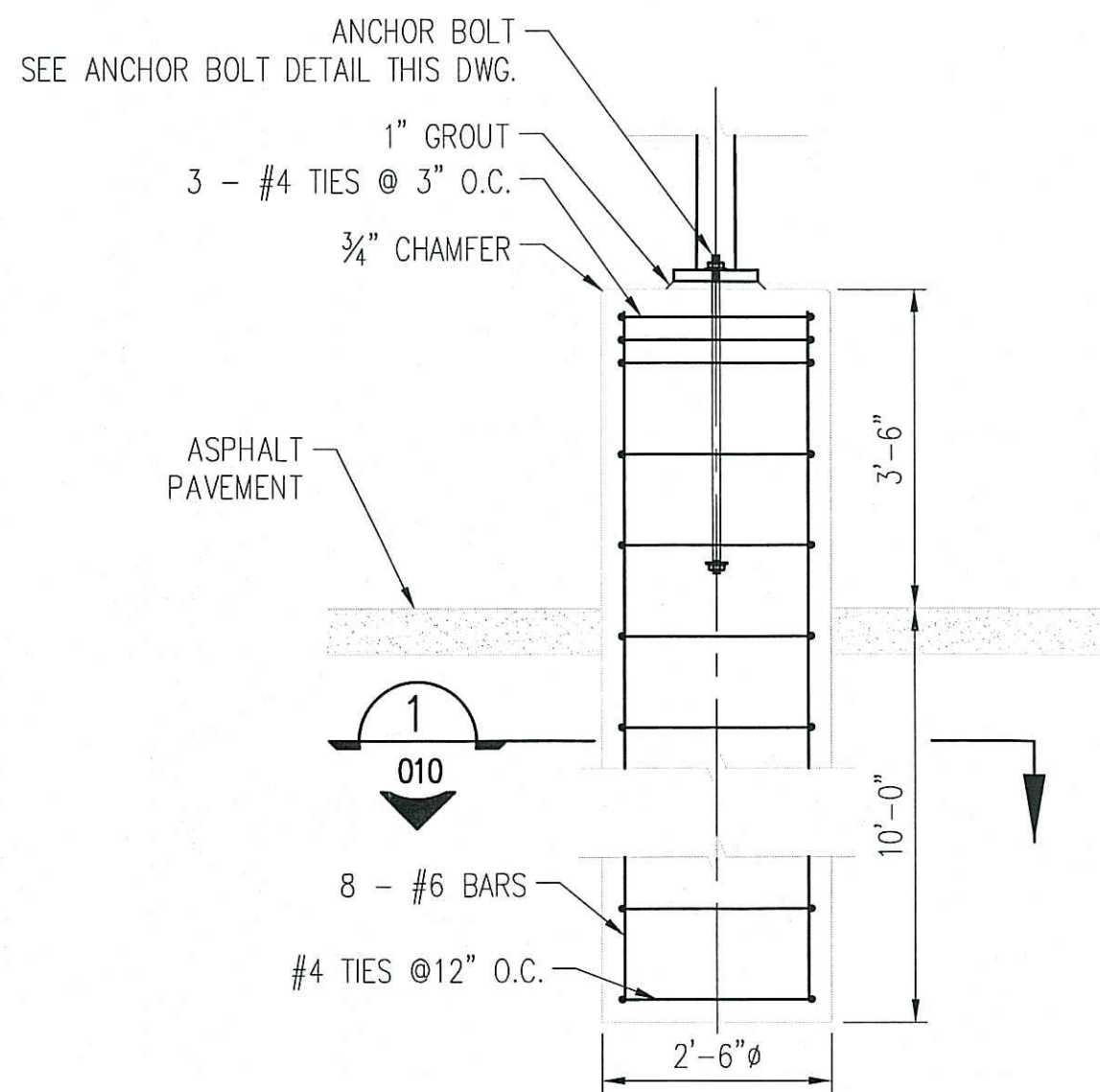
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No	DATE	BY	CHK	APP	APP	DESCRIPTION
						REVISIONS
ORIGINATION		BY	DATE		</	



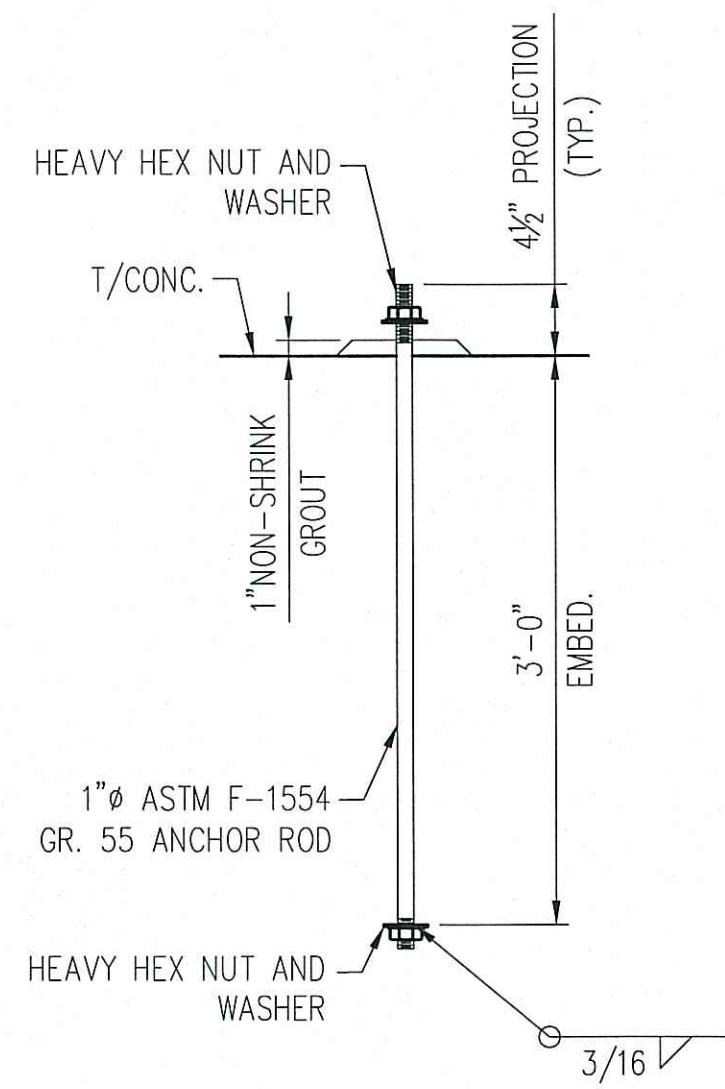
LIGHT POLE ANCHOR BOLT PATTEN
SCALE: 3"=1'-0"
VERIFY SPACING AND SIZE WITH LIGHT POLE MANUFACTURER



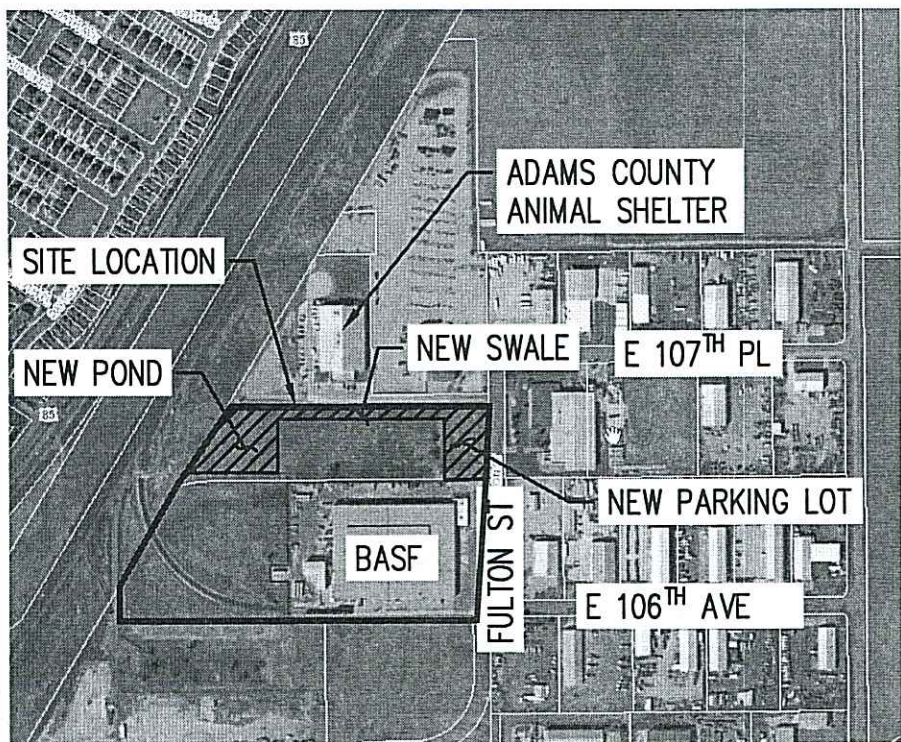
SECTION
SCALE: 1"=1'-0"



LIGHT POLE FOUNDATION DETAIL
SCALE: 1/2"=1'-0"



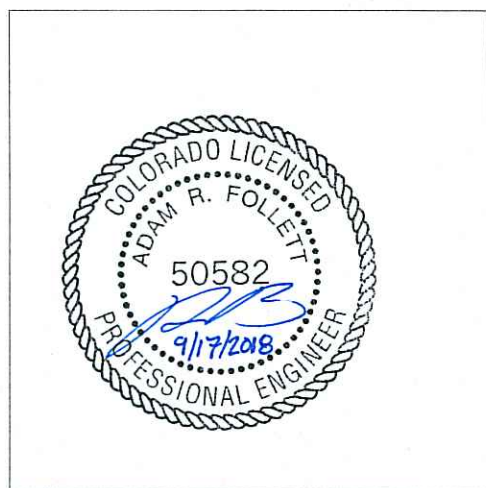
LIGHT POLE ANCHOR BOLT DETAIL
SCALE: 1"=1'-0"



LOCATION MAP
SCALE: NONE

GENERAL REFERENCES:
TITLE SHEET & DRAWING LIST 001
SITE PLAN 004
UTILITY PLAN 005

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09/17/2018
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D54383

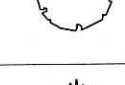
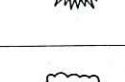


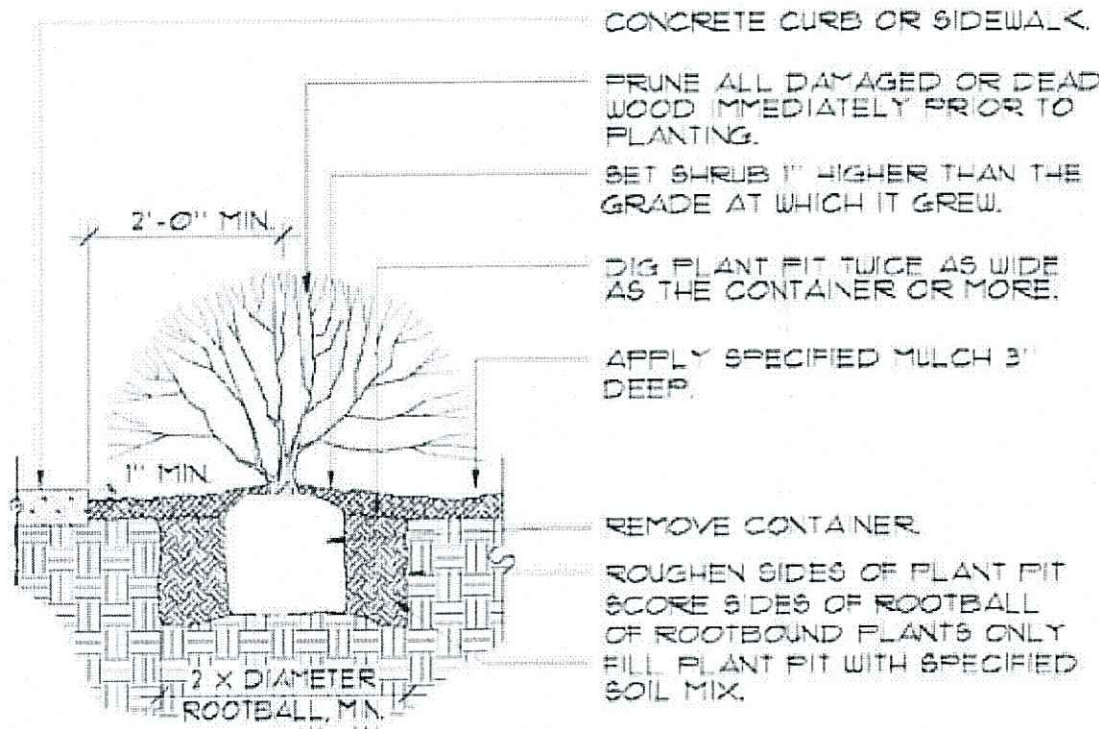
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No	DATE	BY	CHK	APP	APP	DESCRIPTION
ORIGINATION		BY		DATE		REVISIONS  The Chemical Company INSTALLATION DETAILS PARKING LOT ADDITION BASF BRIGHTON, CO
DRAWN		JCL		11/06/17		
DESIGN		MTI		11/06/17		
CHECKED		ARF		01/24/18		
APPROVAL		BY		DATE		
I/E Eng.						
Civ. Eng.						DRAWING NUMBER 0005- BRI- C1- 010 REV C
Prj. Eng.						
Prj. Mgr.						
Mfg. Rep.						
						SITE LOCATION TYPE NUMBER CAD INFORMATION
APPRO. No.						THIS DRAWING AND DESIGN, INCLUDING, BUT NOT LIMITED TO, ALL PATENTABLE FEATURES SEPARATELY OR COLLECTIVELY SHOWN ARE THE PROPERTY OF BASF CORPORATION AND ARE NOT TO BE REPRODUCED IN WHOLE OR IN PART, NOR EMPLOYED FOR ANY PURPOSE OTHER THAN SPECIFICALLY PERMITTED IN WRITING BY BASF CORPORATION. THIS DRAWING IS LOANED SUBJECT TO RETURN ON DEMAND.
PROJECT No. D54383						
SITE BRT						
SCALE AS NOTED						

LANDSCAPE:

1. TO THE MAXIMUM EXTENT FEASIBLE, TOPSOIL THAT IS REMOVED DURING CONSTRUCTION ACTIVITY SHALL BE CONSERVED FOR LATER USE ON AREAS REQUIRING RE-VEGETATION AND LANDSCAPING.
2. THE SOIL IN AREAS THAT HAVE BEEN COMPACTED OR DISTURBED DURING CONSTRUCTION OR OTHER ACTIVITIES SHALL BE THOROUGHLY LOOSENEED. ORGANIC SOIL AMENDMENTS SHALL ALSO BE THOROUGHLY INCORPORATED INTO THE SOIL AT A RATE OF A MINIMUM OF FIVE CUBIC YARDS PER ONE THOUSAND SQUARE FEET OF LANDSCAPE AREA AND BE TILLED TO A DEPTH OF AT LEAST SIX INCHES.
3. PLANT MATERIALS HAVE BEEN SELECTED FROM THE CITY'S APPROVED PLANT LIST AND LANDSCAPING SPECIFICATIONS.
4. ALL PLANTS SHALL BE A-GRADE OR NO. 1 GRADE, FREE OF ANY DEFECTS, AND SHALL BE OF NORMAL HEALTH, HEIGHT, LEAF DENSITY, AND SPREAD APPROPRIATE TO THE SPECIES AS DEFINED BY AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS.
5. PRIOR TO THE INSTALLATION OF THE REQUIRED LANDSCAPING, ALL PROPOSED LANDSCAPE AREAS SHALL BE GRADED TO ALLOW FOR PROPER SITE DRAINAGE.
6. INSTALLATION - ALL LANDSCAPING SHALL BE INSTALLED ACCORDING TO SOUND HORTICULTURAL PRACTICES IN A MANNER DESIGNED TO ENCOURAGE QUICK ESTABLISHMENT AND HEALTHY GROWTH. ALL LANDSCAPING IN EACH PHASE SHALL EITHER BE INSTALLED OR THE INSTALLATION SHALL BE SECURED WITH A LETTER OF CREDIT, ESCROW OR PERFORMANCE BOND FOR 125 PERCENT OF THE VALUE OF THE LANDSCAPING.
7. ANY LANDSCAPE ELEMENT THAT DIES OR IS OTHERWISE REMOVED SHALL BE PROMPTLY REPLACED BASED ON THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE.
8. THE PLANTS SELECTED FOR THIS LANDSCAPING ARE PART OF THE XERIC LANDSCAPING INITIATIVE, WHERE AS THEY DO NOT REQUIRE PERMANENT IRRIGATION FOR SURVIVAL ONCE ESTABLISHED. TEMPORARY IRRIGATION SHALL BE INSTALLED TO ENSURE THE PROPER ESTABLISHMENT OF XERIC ELEMENTS.
9. TWO TYPES OF MULCH MUST BE USED: HARDWOOD AND PINE

PLANT LIST				
	TYPE	HEIGHT	SIZE/CALIPER	QUANTITY
	ONESEED JUNIPER	15'-0" MIN	1½" MIN.	7
	NEW MEXICAN LOCUST	10'-0" MIN	1½" MIN.	8
	BLADDER-SENNA	4'-0" MIN	5 GALLON	14
	CINQUEFOIL (POTENTILLA)	1'-0" MIN	5 GALLON	15
	RABBITBUSH	2'-0" MIN	5 GALLON	14
	SAGE	VARIABLE	5 GALLON	15
	SALTBUSH	4'-0" MIN	5 GALLON	15

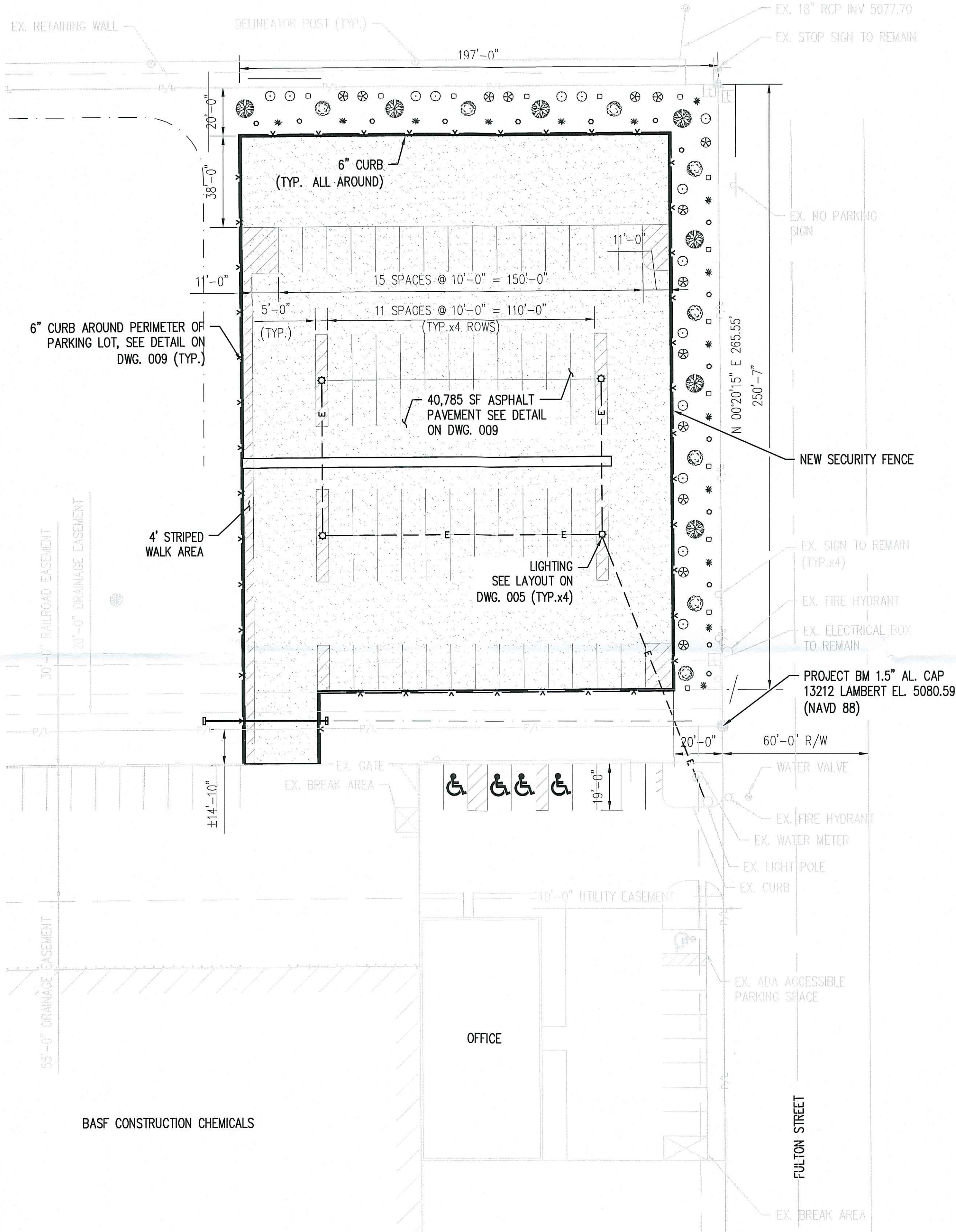


NOTE: ANY BROKEN OR CRUMBLING ROOTBALL WILL BE REJECTED. REMOVING THE CONTAINERS WILL NOT BE AN EXCUSE FOR DAMAGED ROOTBALLS.

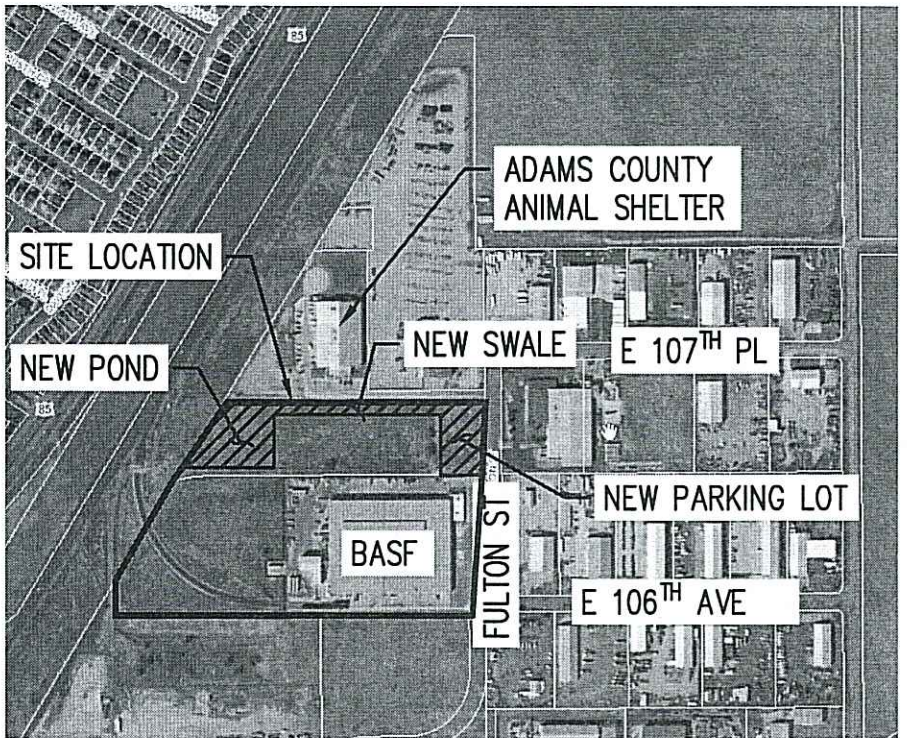
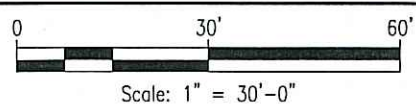
NOTE: HOLD GRADE 1" BELOW EDGE OF WALK OR CURB

SHRUB INTALLATION DETAIL

REFERENCE CITY OF COMMERCE CITY APPROVED PLANT LIST FOR MORE DETAILS ON INSTALLATION



SITE LANDSCAPING PLAN



LOCATION MAP

SCALE: NONE

GENERAL REFERENCES:

TITLE SHEET & DRAWING LIST	001
GENERAL NOTES & LEGEND	002
INSTALLATION DETAILS	009

NOTES:

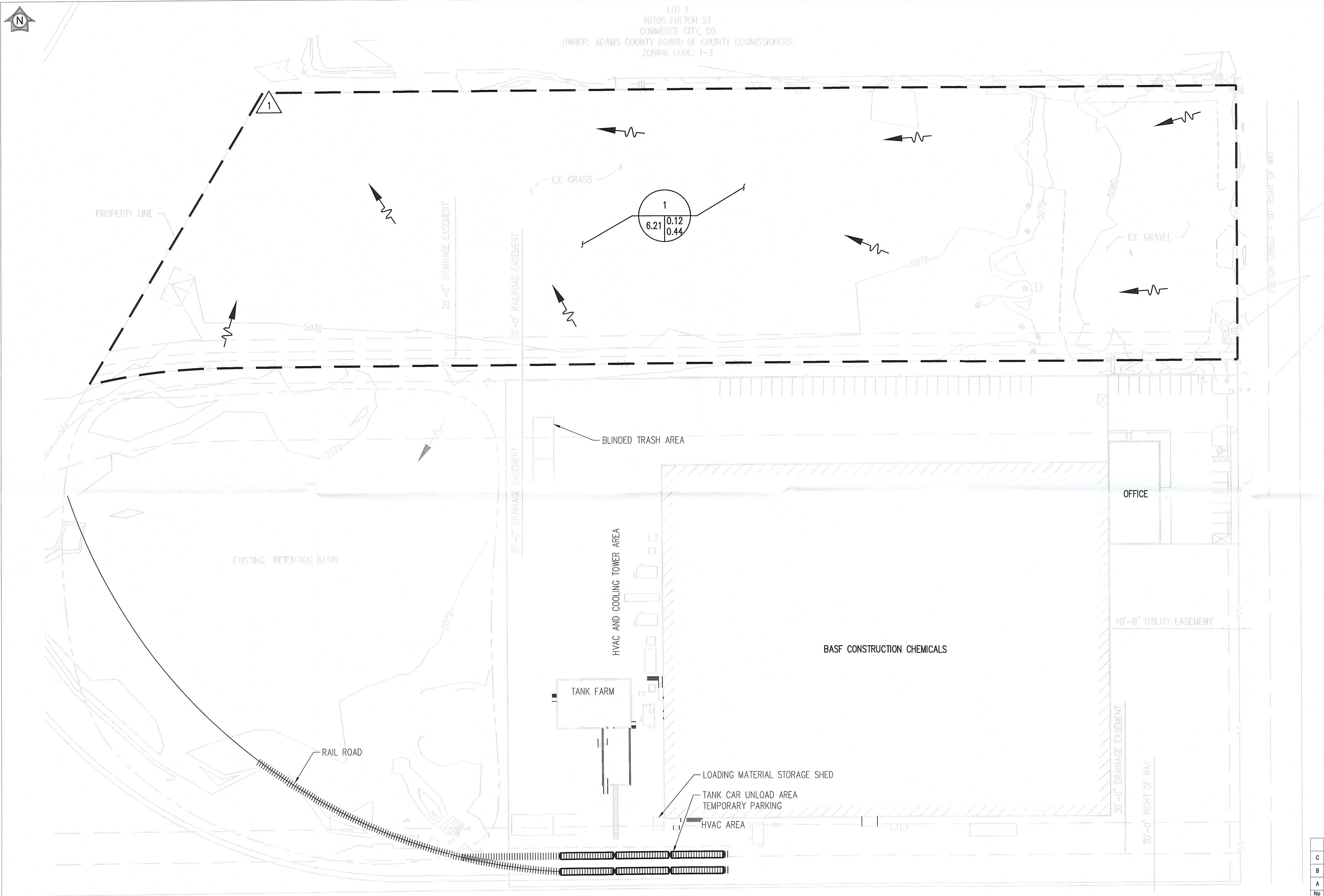
NEW PARKING LOT AREA = 40,785 SF

LANDSCAPING AREA = 0.20 AC (8,560 SF)

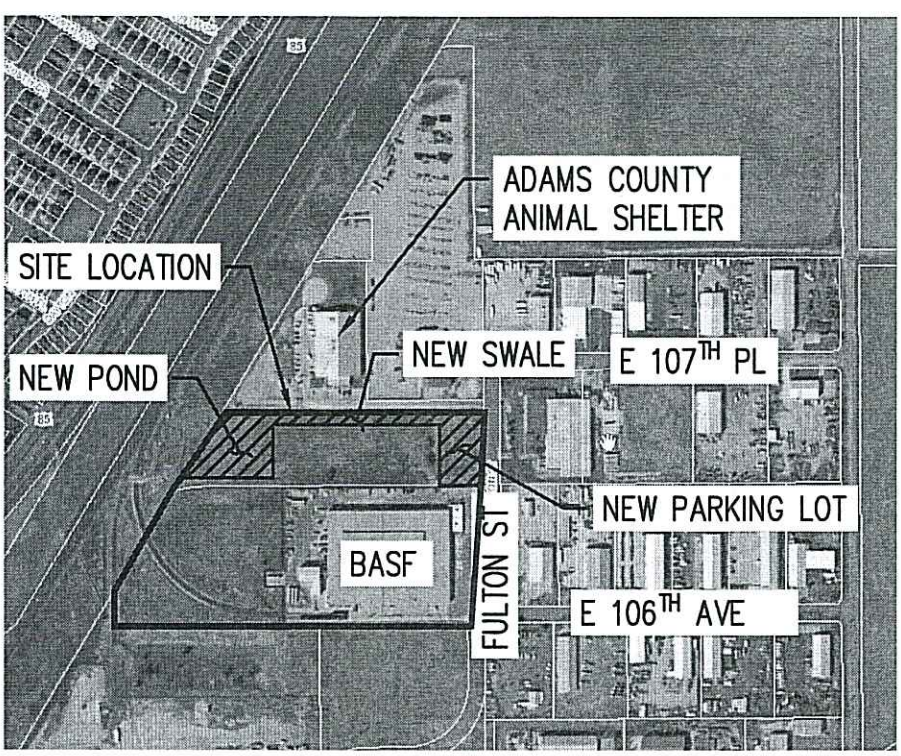
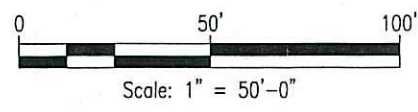
1 TREE & 5 SHRUBS REQUIRED PER 30 FT MEASURED ALONG PROP. LINE. TREES AND SHRUBS SHALL FOLLOW THE PLANTS LISTED IN THE TABLE ON THIS SHEET.



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No	DATE	BY	CHK/APP/APP	DESCRIPTION
REVISIONS				
ORIGINATOR	BY	DATE	 The Chemical Company LANDSCAPING PLAN PARKING LOT ADDITION BASF BRIGHTON, CO	
DRAWN	JCL	11/06/17		
DESIGN	MTI	11/06/17		
CHECKED	ARF	01/24/18		
APPROVAL	BY	DATE		
I/E Eng.			DRAWING NUMBER 0005- BRI- C1- 011	
Civ. Eng.				
Pjt. Eng.				
Pjt. Mgr.				
Mfg. Rep.				
APPRO. No.			SITE LOCATION TYPE NUMBER CAD INFORMATION	
PROJECT No.	D54383			
SITE	BRT			
SCALE	AS NOTED			
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EXISTING DRAINAGE PLAN



LOCATION MAP

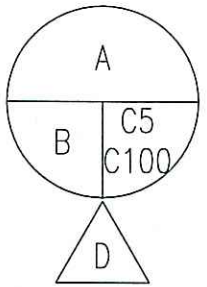
SCALE: NONE

GENERAL REFERENCES:

TITLE SHEET & DRAWING LIST	001
GENERAL NOTES & LEGEND	002
POST DRAINAGE PLAN	016

EXISTING RUNOFF TABLE				
DESIGN POINT	BASIN	AREA (AC)	RUNOFF 5 YR (CFS)	RUNOFF 100 YR (CFS)
1	1	6.21	2.29	15.77

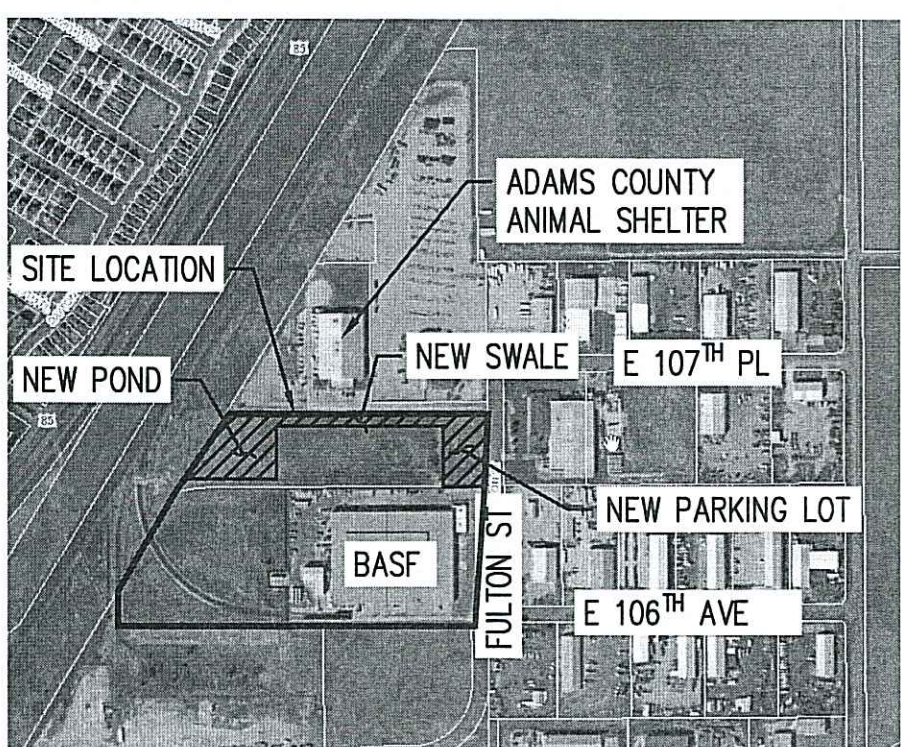
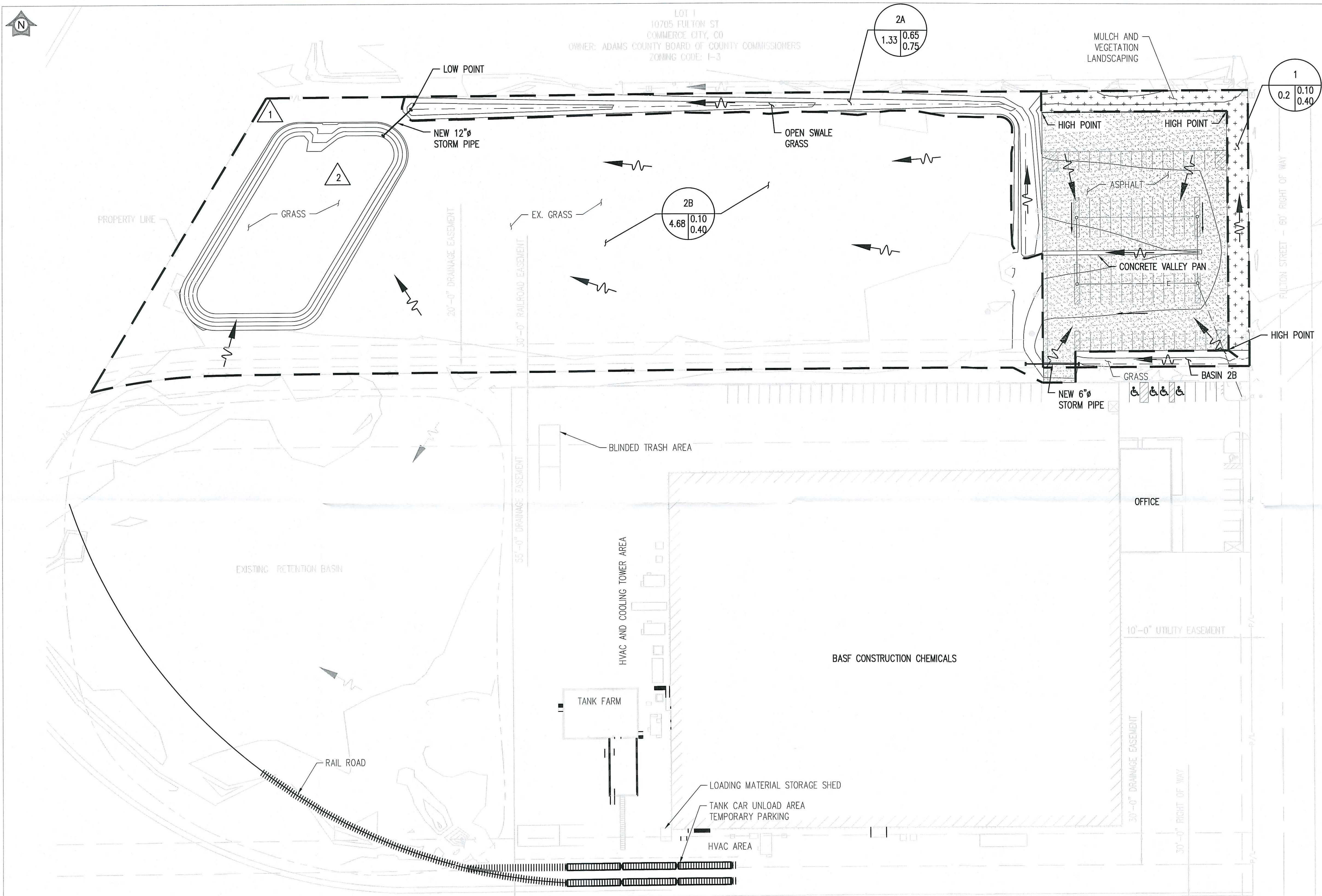
SYMBOL LEGEND



- A = BASIN DESIGNATION
- B = AREA IN ACRES
- C5 = RUNOFF COEFFICIENT 5 YR STORM
- C100 = RUNOFF COEFFICIENT 100 YR STORM
- D = DESIGN POINT DESIGNATION

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D54383

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No	DATE	BY	CHK	APP	APP	DESCRIPTION
ORIGINATION						REVISIONS  The Chemical Company EXISTING DRAINAGE PLAN PARKING LOT ADDITION BASF BRIGHTON, CO
DRAWN		JCL		11/06/17		
DESIGN		MTI		11/06/17		
CHECKED		ARF		01/24/18		
APPROVAL		BY		DATE		
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Civ. Eng.						
Pj. Eng.						
Pj. Mgr.						
Mfg. Rep.						
APPRO. No.						SITE LOCATION TYPE NUMBER
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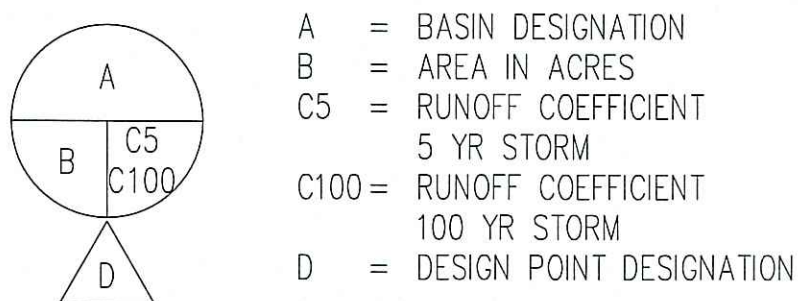


LOCATION MAP
SCALE: NONE

GENERAL REFERENCES:
TITLE SHEET & DRAWING LIST 001
GENERAL NOTES & LEGEND 002
EXISTING DRAINAGE PLAN 015

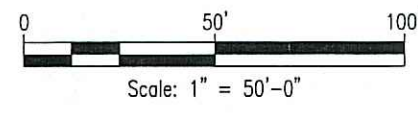
POST RUNOFF TABLE				
DESIGN POINT	BASIN	AREA (AC)	RUNOFF 5 YR (CFS)	RUNOFF 100 YR (CFS)
1	1	0.20	0.06	0.47
2	2A	1.33	2.71	6.01
	2B	4.68	1.54	11.61

SYMBOL LEGEND

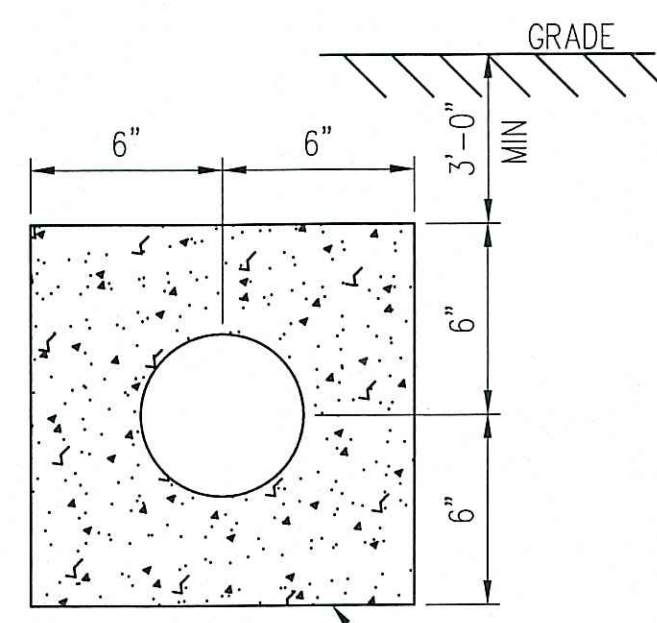


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09/17/2018
MATRIX TECHNOLOGIES
D54383

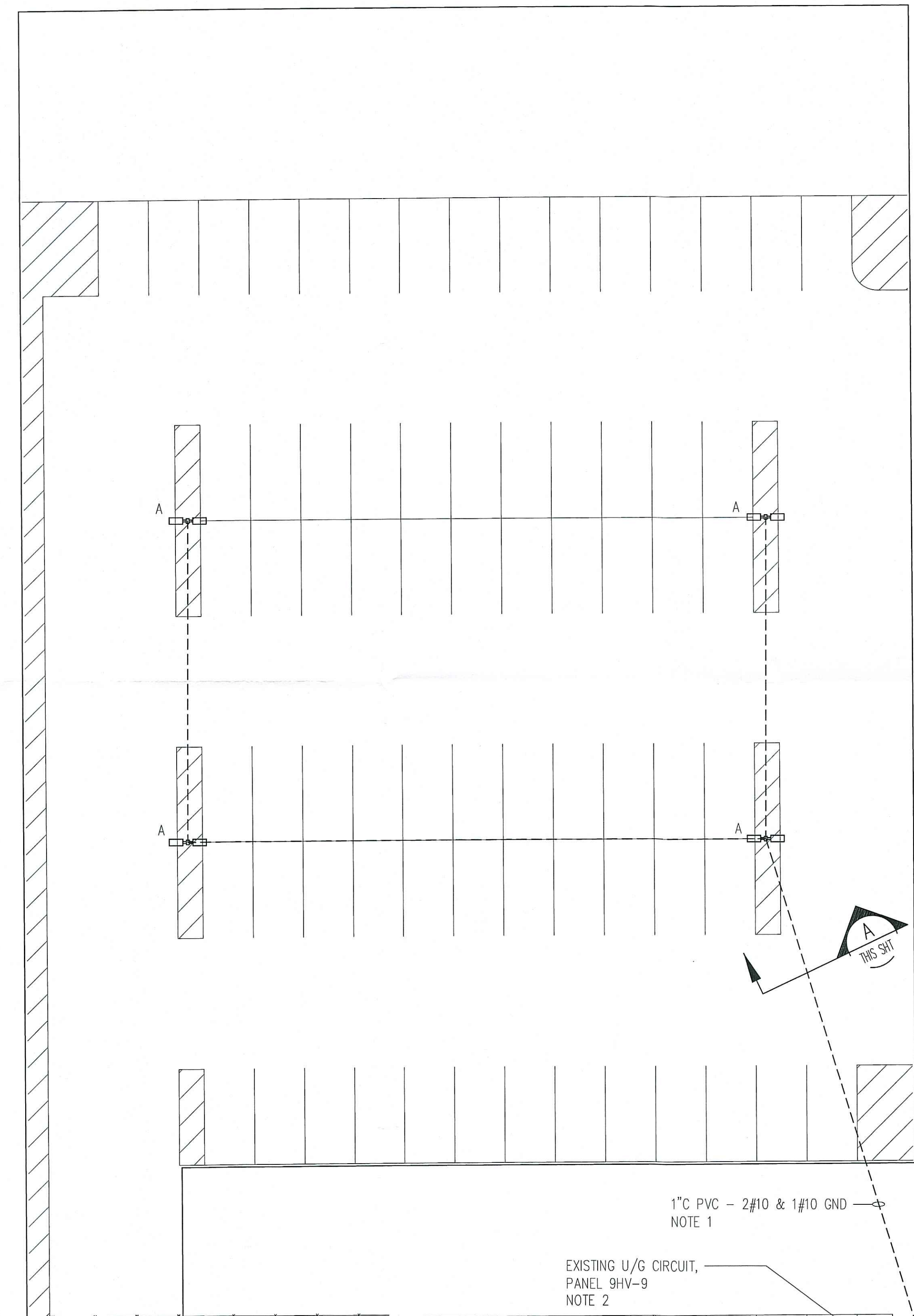
POST DRAINAGE PLAN



C	09/17/18	MTI	MTI		RE-ISSUED FOR PERMITS
B	01/28/18	MTI	MTI		ISSUED FOR PERMITS
A	12/19/17	MTI	MTI		ISSUED FOR REVIEW
No	DATE	BY	CHK	APP	APP
REVISIONS					
ORIGINATION		BY	DATE	 The Chemical Company POST DRAINAGE PLAN PARKING LOT ADDITION BASF BRIGHTON, CO	
DRAWN		JCL	11/06/17		
DESIGN		MTI	11/06/17		
CHECKED		ARF	01/24/18		
APPROVAL		BY	DATE		
I/E Eng.				DRAWING NUMBER 0005- BRI-C1- 016	
Civ. Eng.					
Prj. Eng.					
Prj. Mgr.					
Mfg. Rep.					
APPRO. No.				CAD INFORMATION	
PROJECT No.		D54383			
SITE		BRT			
SCALE		AS NOTED		THIS DRAWING AND DESIGN, INCLUDING BUT NOT LIMITED TO ALL PATENTABLE FEATURES SEPARATELY OR COLLECTIVELY SHOWN ARE THE PROPERTY OF BASF CORPORATION AND ARE NOT TO BE REPRODUCED IN WHOLE OR IN PART, NOR EMPLOYED FOR ANY PURPOSE OTHER THAN SPECIFICALLY PERMITTED IN WRITING BY BASF CORPORATION. THIS DRAWING IS LOANED SUBJECT TO RETURN ON DEMAND.	



SECTION A
THIS SHT



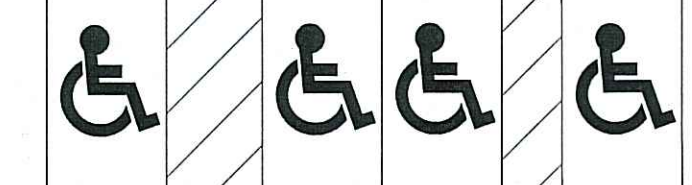
1" C PVC - 2#10 & 1#10 GND
NOTE 1

EXISTING U/G CIRCUIT,
PANEL 9HV-9
NOTE 2

EXISTING MANHOLE

EXISTING LIGHT POLE
NOTE 1

EXISTING FIRE
HYDRANT



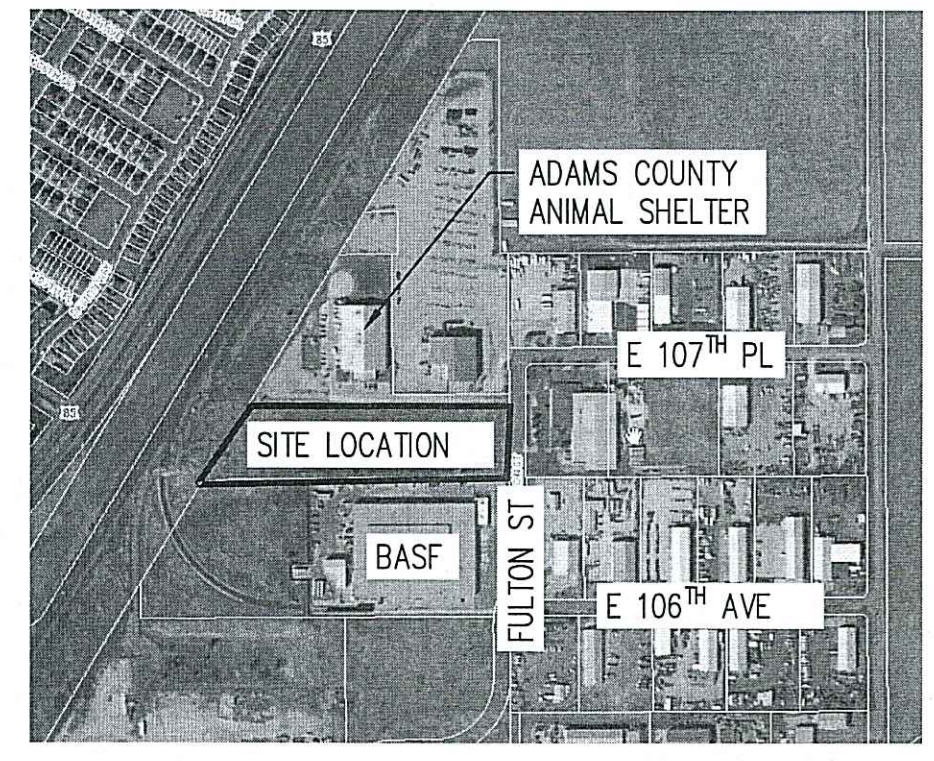
LIGHTING PLAN

SCALE: 1/16" = 1'-0"

SCALE 1/16" = 1'-0"
20 10 0 5 10



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CINCINNATI - DENVER - INDIANAPOLIS - KANSAS CITY - MINNEAPOLIS



LOCATION MAP
N.T.S.

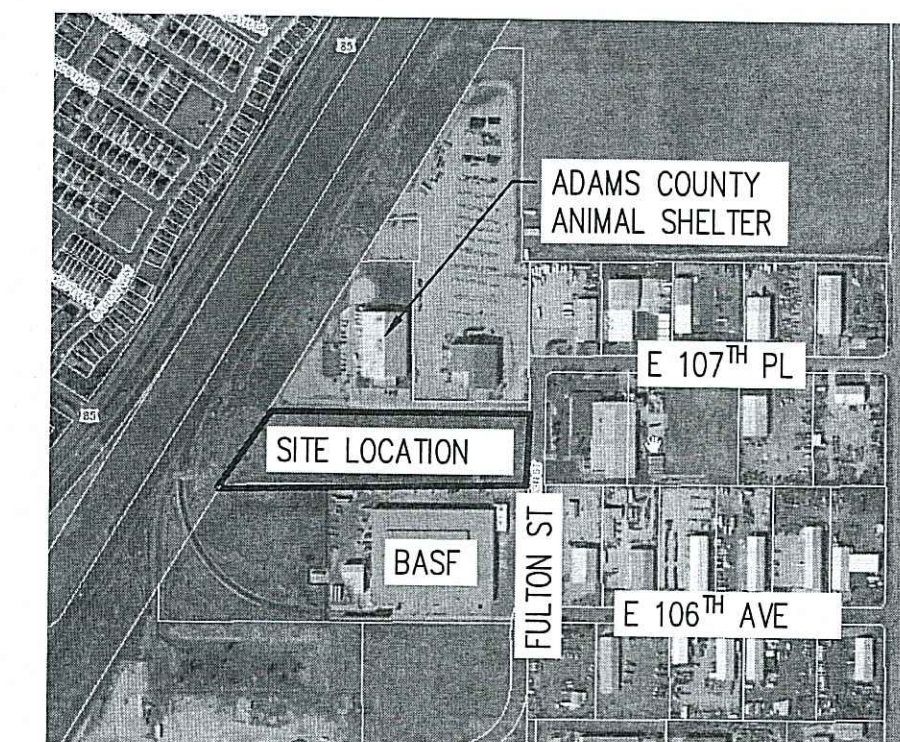
NOTES:

1. EXTEND CIRCUIT U/G FROM EXISTING LIGHT POLE TO NEW LIGHT POLES. EXCAVATE NEAR EXISTING LIGHT POLE WITH CAUTION - FIRE HYDRANT, MANHOLE, AND UNDERGROUND WATER PIPES IN THE VICINITY.
2. REPLACE EXISTING 2#12 AND 1#12 GND FROM PANEL 9HV TO THE EXISTING LIGHT FIXTURES WITH 2#10 AND 1#10 GND.

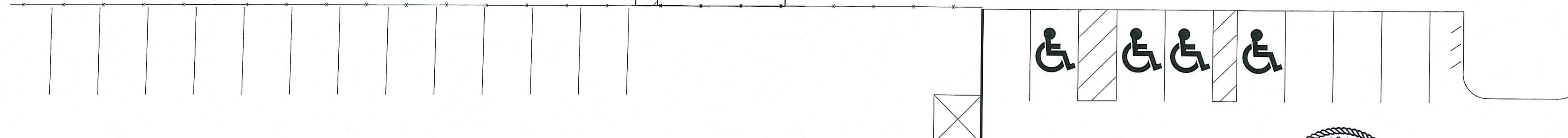
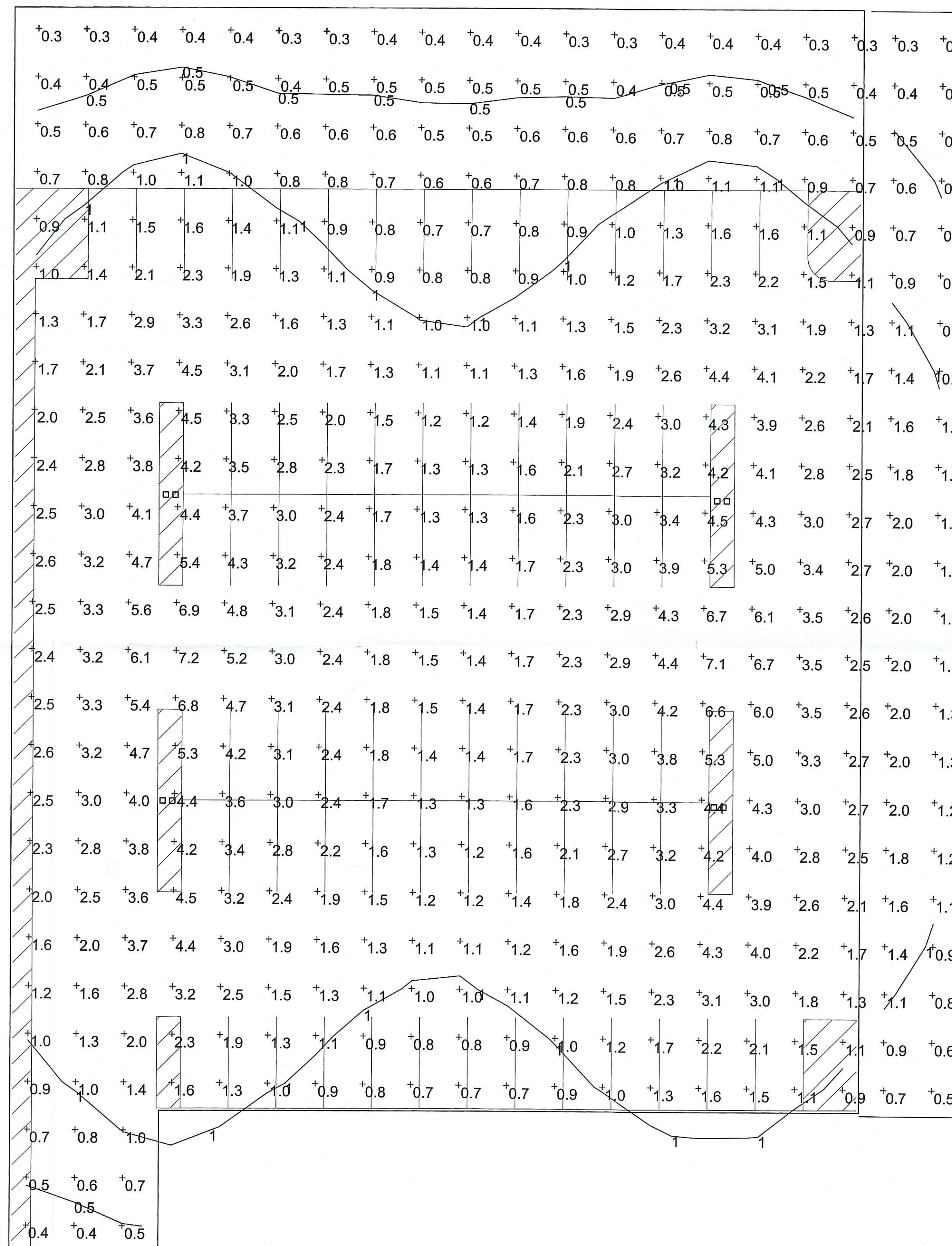
LIGHTING FIXTURE SCHEDULE			
TYPE	DESCRIPTION	FIXTURE W	MOUNTING
A	LED AREA FIXTURE, 2 FIXTURES PER POLE, APPROX. 15,100 LUMENS, TYPE IV DISTRIBUTION, PHOTOCONTROL RECEPTACLE AND PHOTOCELL. POLE SHALL BE 30', WIND RATING OF 120MPH. CUT POLE TO FIT SO THAT MOUNTING HEIGHT OF FIXTURE IS 30'-0 FROM GRADE TO BOTTOM OF FIXTURE.	143	POLE

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No	DATE	BY	CHK	APP	APP	DESCRIPTION
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DRAWN						JWV 11/06/17
DESIGN						MTI 11/06/17
CHECKED						BJC 12/06/17
APPROVAL						BY DATE
I/E Eng.						
Civ. Eng.						
Pjt. Eng.						
Pjt. Mgr.						
Mtg. Rep.						
REVISIONS						
 The Chemical Company LIGHTING PLAN PARKING LOT ADDITION BASF BRIGHTON, CO						
DRAWING NUMBER						REV
0005- BRI- E1- 001						C
SITE LOCATION TYPE NUMBER						
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SCALE						AS NOTED
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LOCATION MAP
N.T.S.



FOOTCANDLE PLAN
SCALE: 1/16" = 1'-0"



SCALE 1/16" = 1'-0"
20 10 0 5 10



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