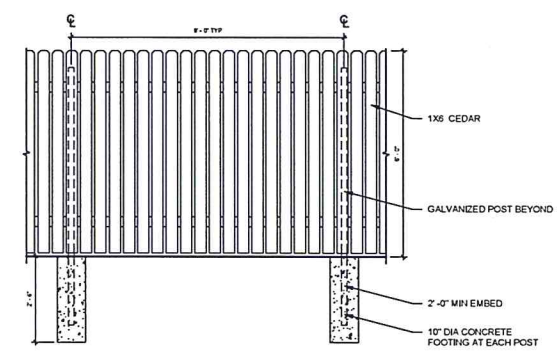
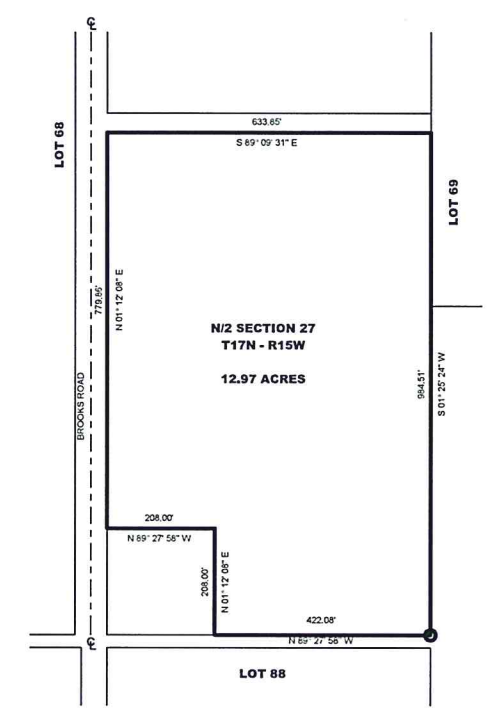


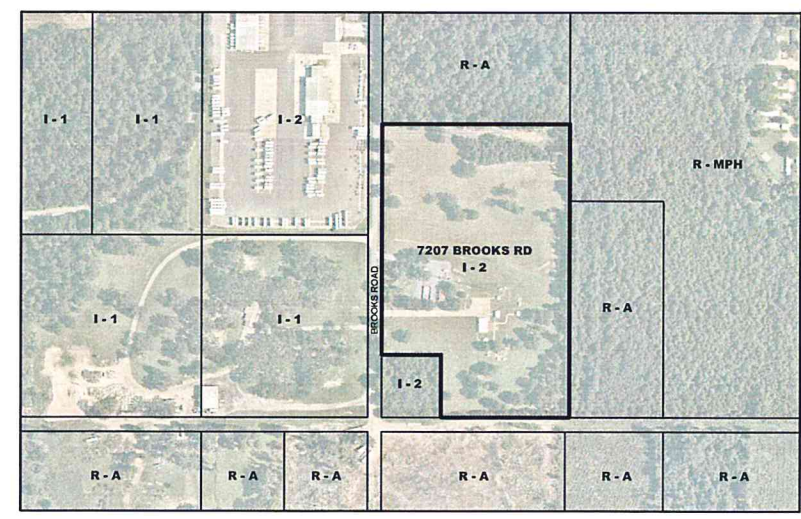
**BROOKS ROAD EXPANSION**  
 ENABLE MIDSTREAM PARTNERS  
 7207 BROOKS RD  
 CITY OF SHREVEPORT, CADDO PARISH, LA 71129



**4 SITE FENCE TYP.**  
 1/2" = 1'-0"

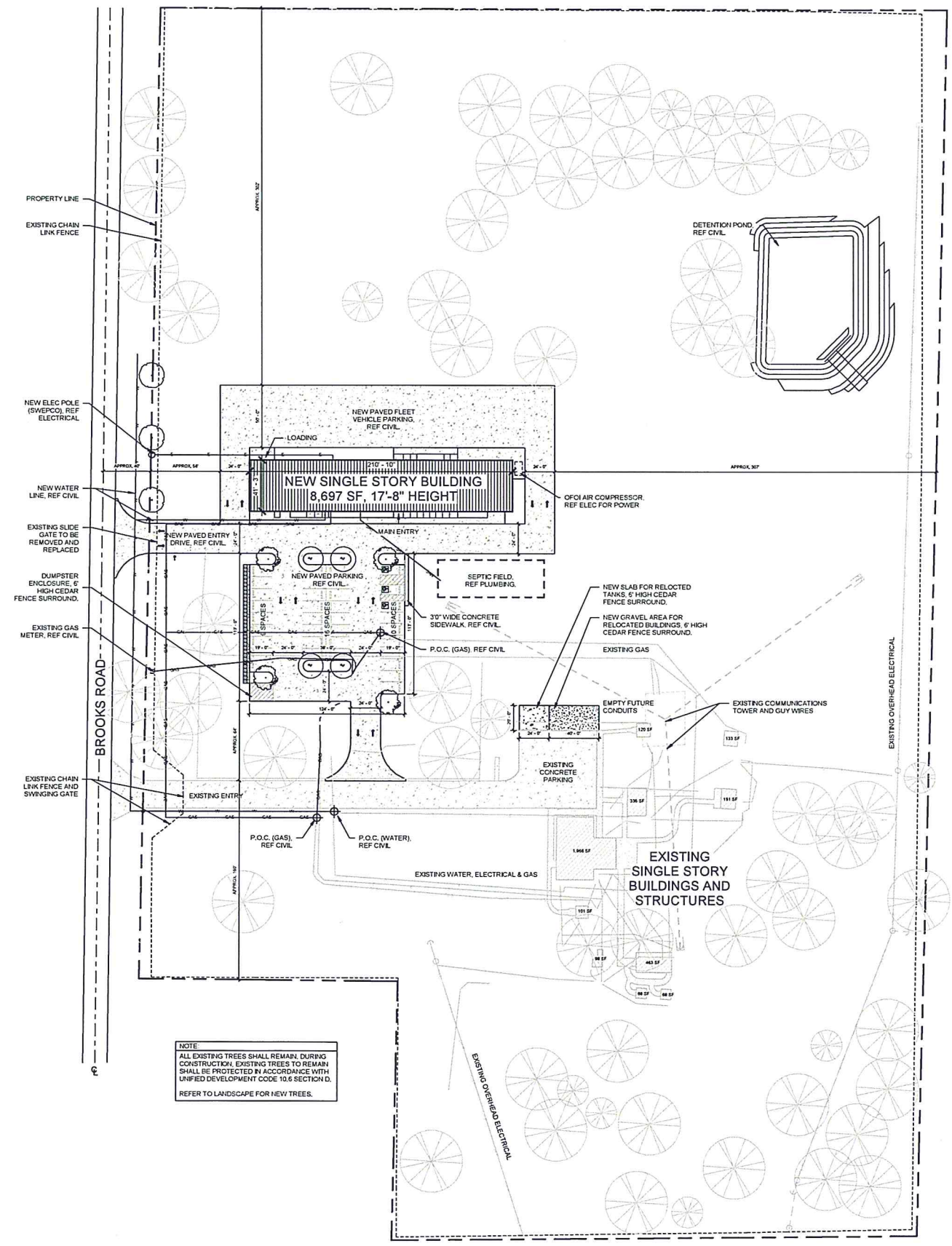


**3 PROPERTY BOUNDARIES**  
 NTS



**2 VICINITY MAP**  
 NTS

**EXECUTIVE DIRECTOR APPROVAL**  
 8-22-18  
 Date By



**NOTE:**  
 ALL EXISTING TREES SHALL REMAIN DURING CONSTRUCTION. EXISTING TREES TO REMAIN SHALL BE PROTECTED IN ACCORDANCE WITH UNITED DEVELOPMENT CODE 10.6 SECTION D. REFER TO LANDSCAPE FOR NEW TREES.

**1 ARCHITECTURAL SITE PLAN**  
 1" = 40'-0"  
 0 20 40 60

SEAL  
 PROJECT ENGINEER  
 JOHN MILLER  
 05/01/2018

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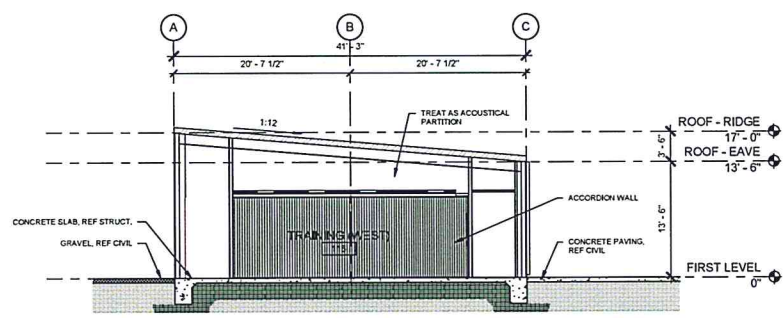
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1	APPROVAL	08/22/2018
2	REVISION	08/22/2018

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 SIGNATURE, DATE

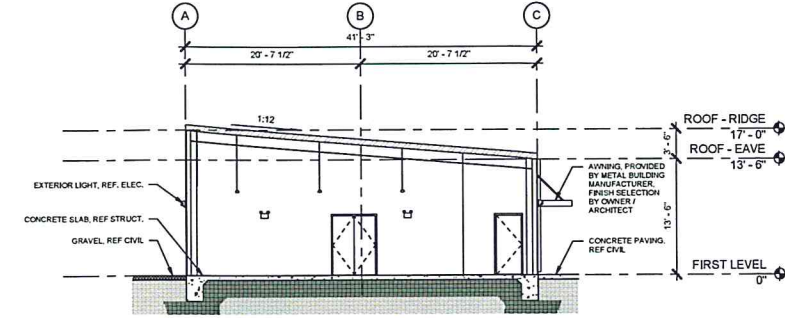
ISSUE DATE: 05/01/2018  
 PROJECT NUMBER: 201723  
 ARCHITECTURAL SITE PLAN

SHEET NUMBER  
**AS-101**

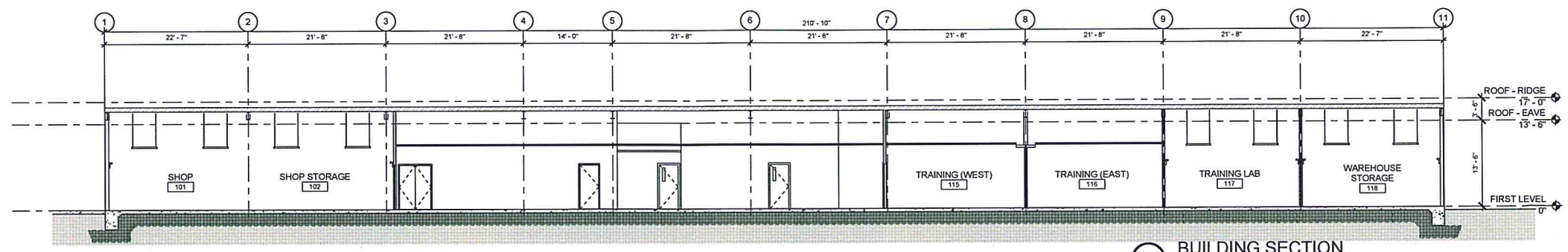




**6 BUILDING SECTION - SOUTH/NORTH**  
 1/8" = 1'-0"



**5 BUILDING SECTION - NORTH/SOUTH**  
 1/8" = 1'-0"

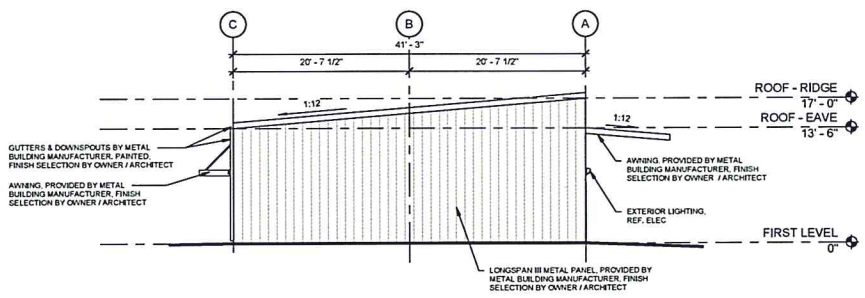


**7 BUILDING SECTION**  
 1/8" = 1'-0"

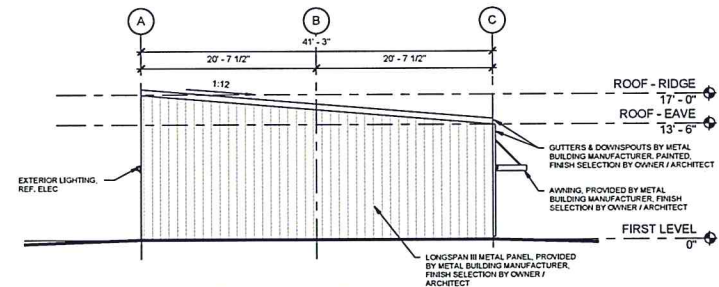
**EXECUTIVE  
 DIRECTOR  
 APPROVAL**

8-22-18  
 Date

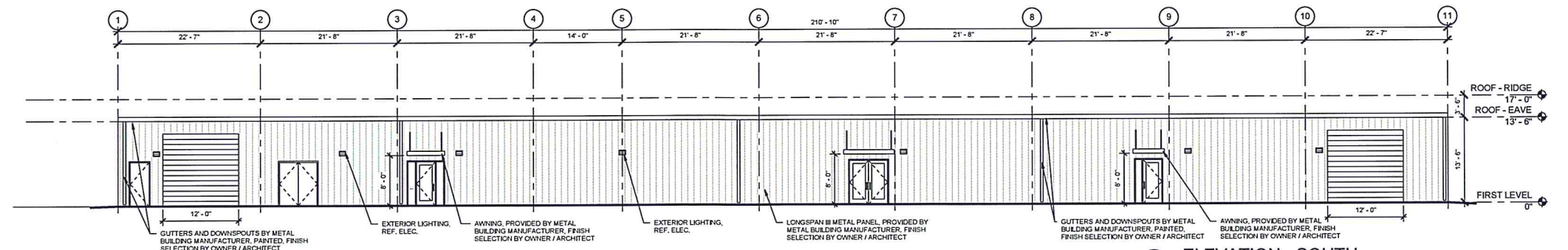
By *[Signature]*



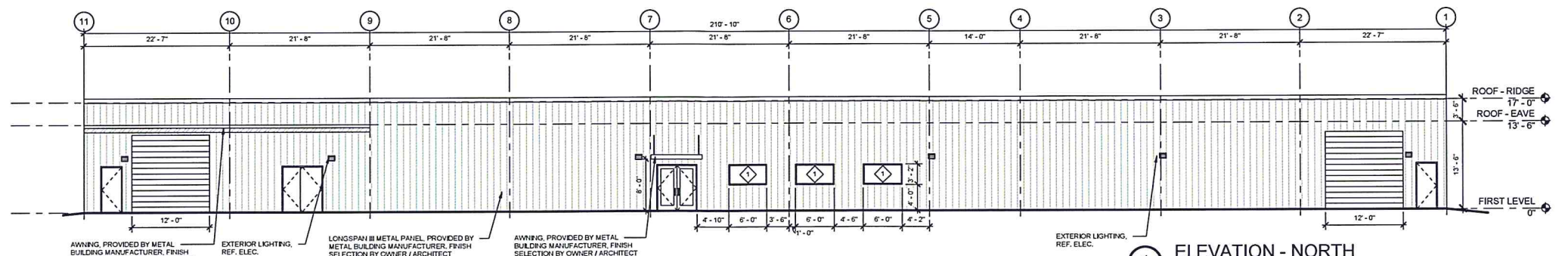
**3 ELEVATION - EAST**  
 1/8" = 1'-0"



**4 ELEVATION - WEST**  
 1/8" = 1'-0"

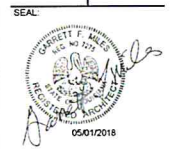


**2 ELEVATION - SOUTH**  
 1/8" = 1'-0"



**1 ELEVATION - NORTH**  
 1/8" = 1'-0"

**BROOKS ROAD EXPANSION**  
 ENABLE MIDSTREAM PARTNERS  
 7207 BROOKS RD  
 CADDOPARISH, LA 71129



REVISIONS

NO.	DESCRIPTION	DATE

ISSUE DATE: 05/01/2018  
 PROJECT NUMBER: 201723  
 EXTERIOR ELEVATIONS AND BUILDING SECTIONS



Tag Number	Species	DBH	Status
1	Unknown		Protect
2	Water Oak	16	Protect
3	Water Oak	14	Protect
4	Water Oak	20	Protect
5	Unknown		Protect
6	Unknown		Protect
7	Unknown		Protect
8	Unknown		Protect
9	Unknown		Protect
10	Unknown		Protect
11	Unknown		Protect
12	Unknown		Protect
13	Unknown		Protect
14	Unknown		Protect
15	Unknown		Protect
16	Unknown		Protect
17	Unknown		Protect
18	Unknown		Protect
19	Unknown		Protect
20	Unknown		Protect
21	Water Oak	23	Protect
22	Water Oak	18	Protect
23	Water Oak	22	Protect
24	Unknown		Protect
25	Unknown		Protect
26	Unknown		Protect
27	Water Oak	14	Protect
28	Water Oak	18	Protect
29	Water Oak	16	Protect
30	Water Oak	12	Protect
31	Water Oak	20	Protect
32	Loblolly Pine	26	Protect
33	Water Oak	26	Protect
34	Water Oak	16	Protect
35	Water Oak	12	Protect

Tag Number	Species	DBH	Status
36	Unknown		Protect
37	Unknown		Protect
38	Unknown		Protect
39	Unknown		Protect
40	Unknown		Protect
41	Unknown		Protect
42	Unknown		Protect
43	Unknown		Protect
44	Unknown		Protect
45	Unknown		Protect
46	Unknown		Protect
47	Unknown		Protect
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49	Unknown		Protect
50	Unknown		Protect
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53	Unknown		Protect
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55	Unknown		Protect
56	Unknown		Protect
57	Unknown		Protect
58	Unknown		Protect
59	Unknown		Protect
60	Unknown		Protect
61	Unknown		Protect
62	Unknown		Protect
63	Unknown		Protect

Total Trees	63
Total Inches	273
Trees To Be Removed	0
Inches To Be Removed	0
Trees To Be Protected	63
Trees to Remain	63
Inches to Remain	273

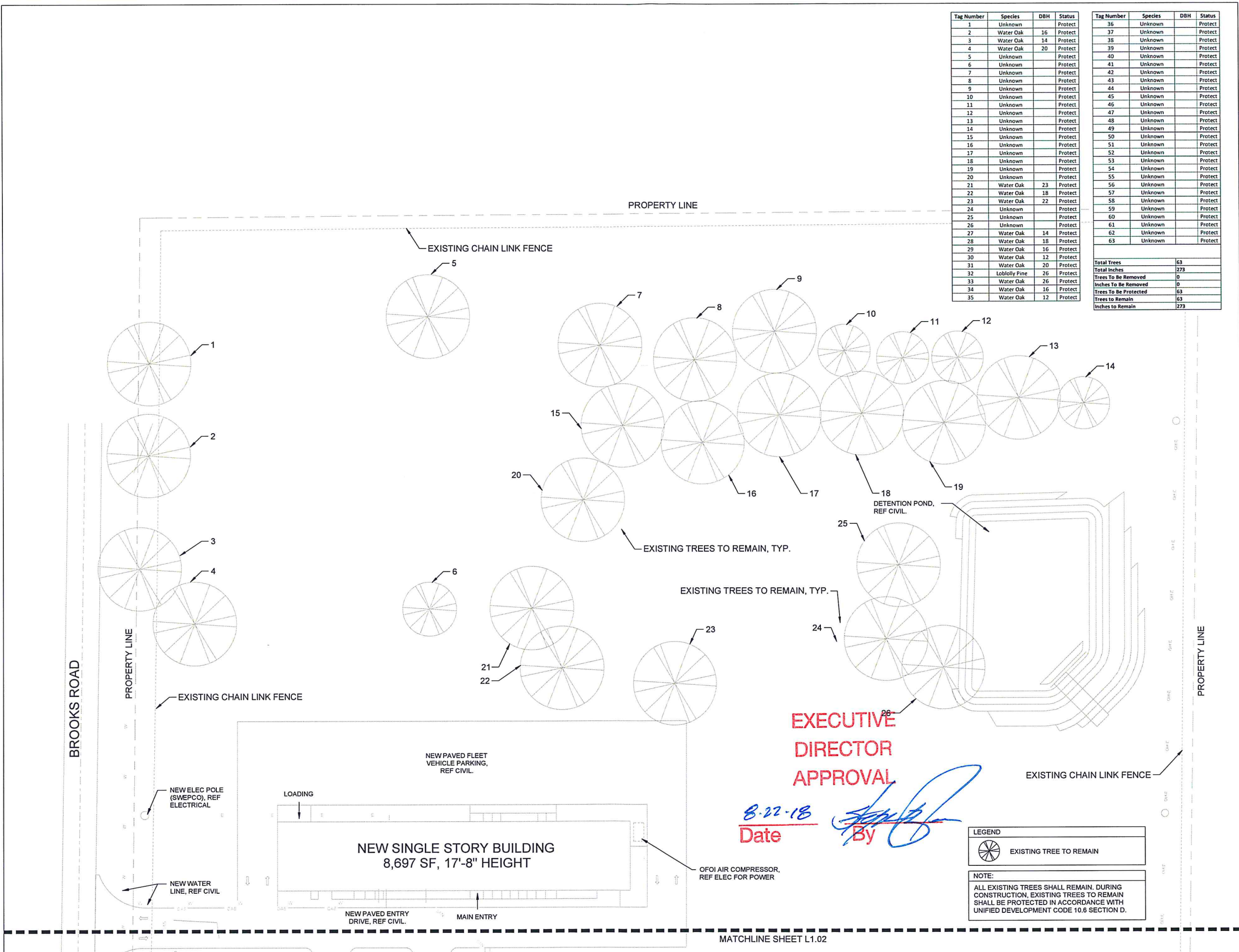
**MILES ASSOCIATES**  
 665 RESEARCH PARKWAY, SUITE 100  
 OKLAHOMA CITY, OK 73104  
 P 405.235.3915  
 F 405.235.7579

**MEP**  
 1000 E ST. SUITE 100  
 NORMAN, OK 73061  
 866-848-2288  
 405-833-7200  
 WWW.MILES.COM  
 MILES@MILES.COM

**STRUCTURAL/CIVIL**  
 808 NORTH 15TH ST. SUITE 200  
 NORMAN, OK 73061  
 318-345-3020  
 318-345-4520  
 WWW.EDJ.COM  
 JAMES@EDJ.COM

**LANDSCAPE**  
 HUNTY ASSOCIATES  
 10200 NORTH BENDER ROAD  
 OKLAHOMA CITY, OK 73121  
 774-544-5228  
 774-544-5556  
 WWW.HUNTY.COM  
 HUNTY@HUNTY.COM

**BROOKS ROAD EXPANSION**  
 ENABLE MIDSTREAM PARTNERS  
 7207 BROOKS RD  
 SHREVEPORT, LA 71129



**EXECUTIVE DIRECTOR APPROVAL**

8-22-18  
 Date

By *[Signature]*

**LEGEND**  
 EXISTING TREE TO REMAIN

**NOTE:**  
 ALL EXISTING TREES SHALL REMAIN. DURING CONSTRUCTION, EXISTING TREES TO REMAIN SHALL BE PROTECTED IN ACCORDANCE WITH UNIFIED DEVELOPMENT CODE 10.6 SECTION D.



100% R/C

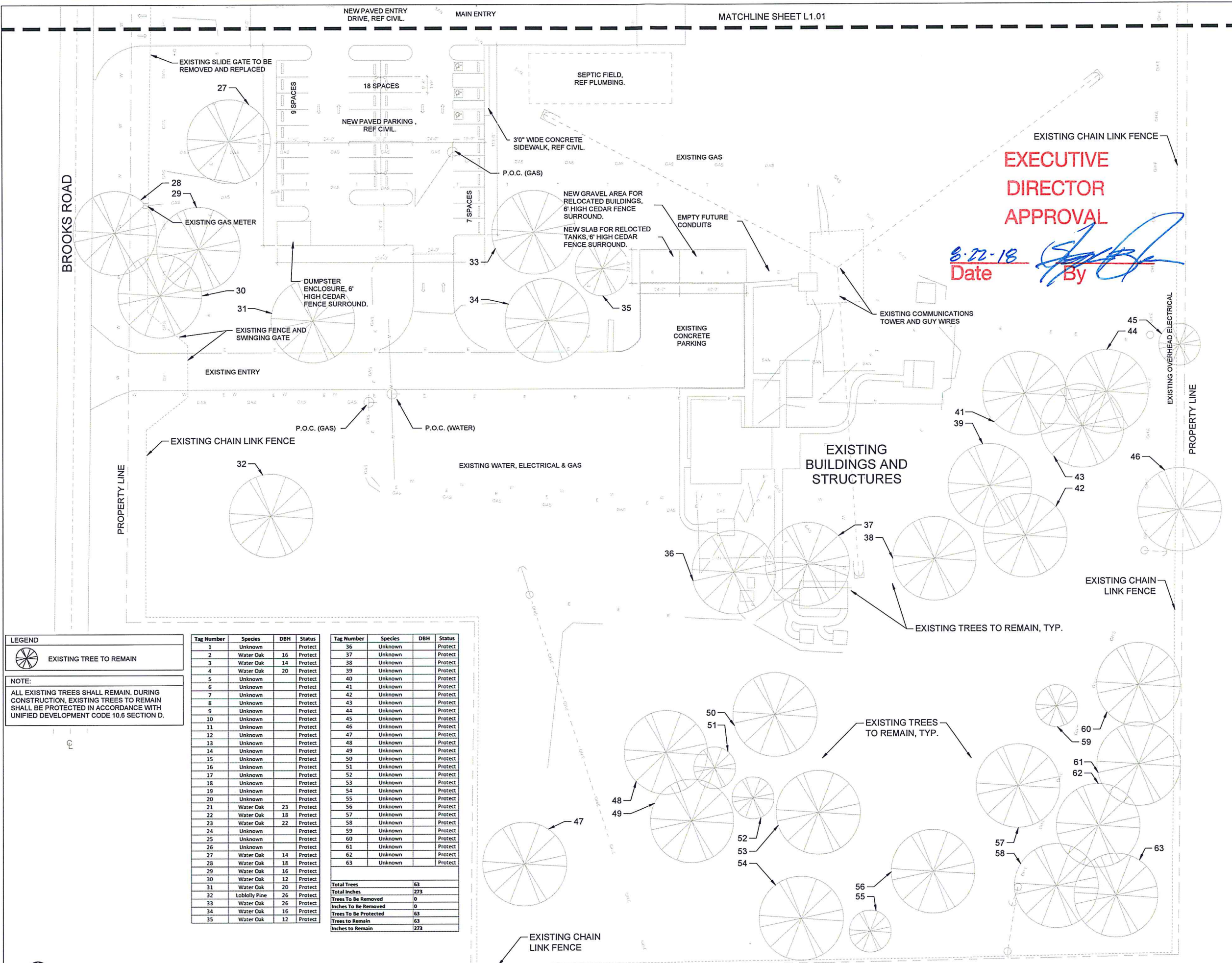
NO.	REVISION	DATE

X  
 MPC EXECUTIVE DIRECTOR  
 SIGNATURE DATE

ISSUE DATE 08/01/2018  
 PROJECT NUMBER 201723  
**TREE PRESERVATION PLAN**



**BROOKS ROAD EXPANSION**  
**ENABLE MIDSTREAM PARTNERS**  
 7207 BROOKS RD  
 SHREVEPORT, LA 71129



**EXECUTIVE DIRECTOR APPROVAL**  
 Date: 8-22-18  
 By: [Signature]

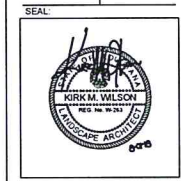
**LEGEND**  
 EXISTING TREE TO REMAIN

**NOTE:**  
 ALL EXISTING TREES SHALL REMAIN. DURING CONSTRUCTION, EXISTING TREES TO REMAIN SHALL BE PROTECTED IN ACCORDANCE WITH UNIFIED DEVELOPMENT CODE 10.6 SECTION D.

Tag Number	Species	DBH	Status
1	Unknown		Protect
2	Water Oak	16	Protect
3	Water Oak	14	Protect
4	Water Oak	20	Protect
5	Unknown		Protect
6	Unknown		Protect
7	Unknown		Protect
8	Unknown		Protect
9	Unknown		Protect
10	Unknown		Protect
11	Unknown		Protect
12	Unknown		Protect
13	Unknown		Protect
14	Unknown		Protect
15	Unknown		Protect
16	Unknown		Protect
17	Unknown		Protect
18	Unknown		Protect
19	Unknown		Protect
20	Unknown		Protect
21	Water Oak	23	Protect
22	Water Oak	18	Protect
23	Water Oak	22	Protect
24	Unknown		Protect
25	Unknown		Protect
26	Unknown		Protect
27	Water Oak	14	Protect
28	Water Oak	18	Protect
29	Water Oak	16	Protect
30	Water Oak	12	Protect
31	Water Oak	20	Protect
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33	Water Oak	26	Protect
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Tag Number	Species	DBH	Status
36	Unknown		Protect
37	Unknown		Protect
38	Unknown		Protect
39	Unknown		Protect
40	Unknown		Protect
41	Unknown		Protect
42	Unknown		Protect
43	Unknown		Protect
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57	Unknown		Protect
58	Unknown		Protect
59	Unknown		Protect
60	Unknown		Protect
61	Unknown		Protect
62	Unknown		Protect
63	Unknown		Protect

Total Trees	63
Total Inches	273
Trees To Be Removed	0
Inches To Be Removed	0
Trees To Be Protected	63
Trees To Remain	63
Inches to Remain	273



100% IFC

NO.	DESCRIPTION	DATE



PLANT LIST AND LEGEND							
SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	CONT	SPACING	CAL	QTY
<b>SHADE TREES</b>							
	MV	MAGNOLIA VIRGINIANA	SWEET BAY	30 GAL.	REFER TO PLAN	3" CAL.	4
	QM	QUERCUS MUEHLENBERGII	CHINKAPIN OAK	45 GAL.	REFER TO PLAN	3" CAL.	4
	QS	QUERCUS SHUMARDII	SHUMARD RED OAK	45 GAL.	REFER TO PLAN	3" CAL.	3

PLANT LIST AND LEGEND							
SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	CONT	SPACING	CAL	QTY
<b>EVERGREEN SHRUBS</b>							
	BT	BERBERIS THUNBERGII	JAPANESE BARBERRY	5 GAL.	REFER TO PLAN	-	6
	BS	BUXUS SEMPERVIRENS	COMMON BOXWOOD	5 GAL.	REFER TO PLAN	-	6
	GJ	GARDENIA JASMINOIDES	GARDENIA	5 GAL.	REFER TO PLAN	-	6
	RI	RHAPHIOLEPIS INDICA	INDIAN HAWTHORN	5 GAL.	REFER TO PLAN	-	9
	RS	RHODODENDRON SPP.	AZALEA	5 GAL.	REFER TO PLAN	-	5

Landscaping Requirements	Required	Existing	Provided
<b>Required Shade Tree Planting</b>	-	-	-
On Site Trees	0	-	0
Parkway Trees (1 per 25 l.f.)	0	-	0
North Interior Buffer Yard	-	-	-
30' Wide Yard	Yes	Yes	*
Shade Trees (1 per 30 l.f. of buffer yard length)	22	-	*
Solid Fence or Masonry Wall	Yes	-	*
Shrubs (1 per 3 l.f. of buffer length)	212	-	*
Rear Landscape Buffer	-	-	-
30' Wide Yard	Yes	Yes	*
Shade Trees (1 per 30 l.f. of buffer yard length)	33	-	*
Solid Fence or Masonry Wall	Yes	-	*
Shrubs (1 per 3 l.f. of buffer length)	329	-	*
South Interior Buffer	-	-	-
30' Wide Yard	Yes	Yes	*
Shade Trees (1 per 30 l.f. of buffer yard length)	15	-	*
Solid Fence or Masonry Wall	Yes	-	*
Shrubs (1 per 3 l.f. of buffer length)	141	-	*
Brooks Road Landscape Buffer	-	-	-
15' min. Planting Area Width	Yes	Yes	Yes
Trees (1 shade or 3 ornamental per 500 sq. ft. of planting area)	6	7	3
<b>Parking Lot Plantings</b>	-	-	-
Parking Lot Islands (1 per 10 spaces + termination of row)	5	-	5
Trees within parking islands	8	-	8

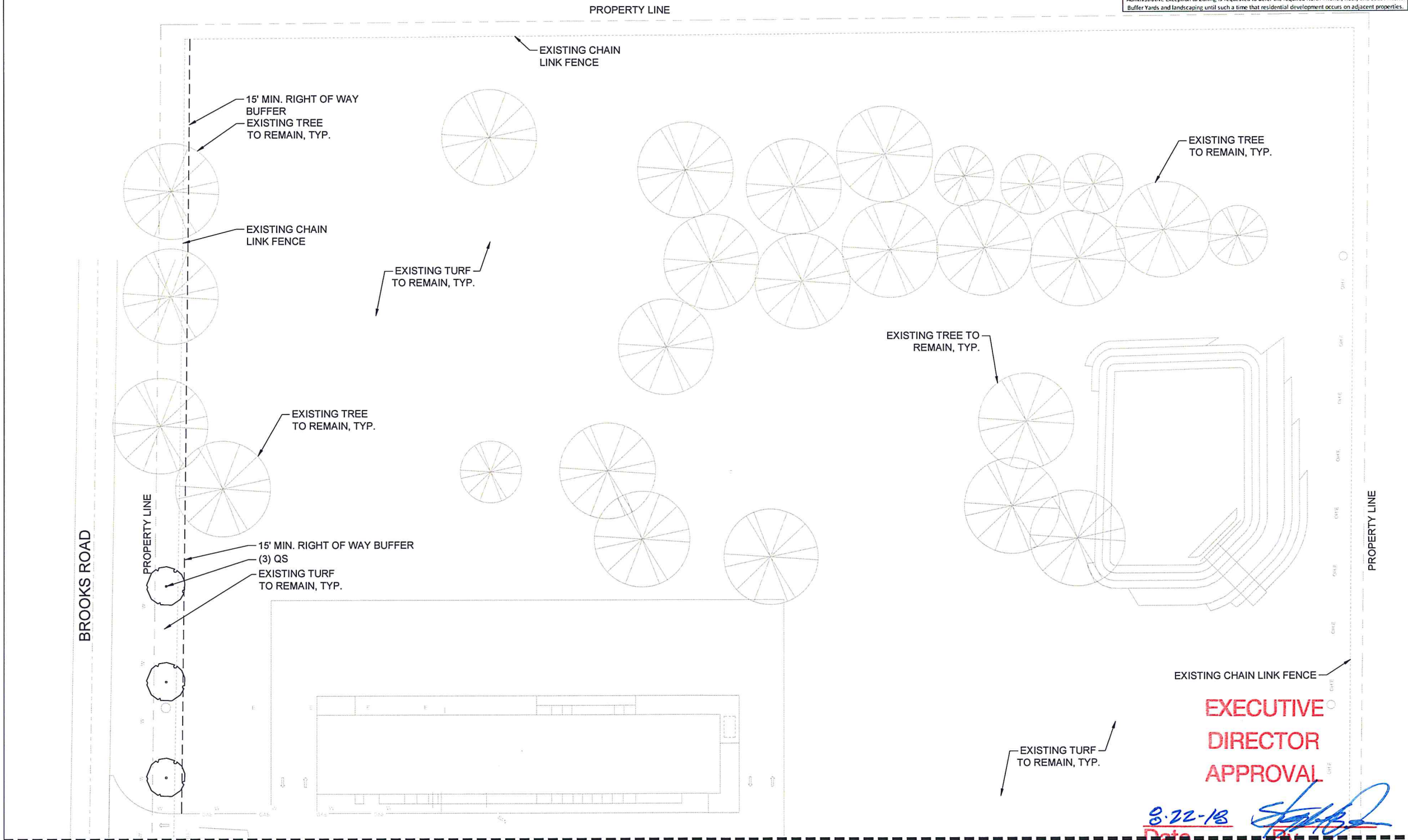
**MILES ASSOCIATES**  
 865 RESEARCH PARKWAY, SUITE 100  
 OKLAHOMA CITY, OK 73104  
 P. 405.255.3815  
 F. 405.255.7575

**MEP**  
 5005 WEST MILITARY, SUITE 100  
 OKLAHOMA CITY, OK 73106  
 P. 405.255.3815  
 F. 405.255.7575

**STRUCTURAL/GENERAL**  
 800 NORTH 10TH ST. SUITE 200  
 OKLAHOMA CITY, OK 73101  
 P. 405.255.3815  
 F. 405.255.7575

**LANDSCAPE**  
 MILES ASSOCIATES  
 100 SOUTH BENDER ROAD  
 OKLAHOMA CITY, OK 73101  
 P. 405.255.3815  
 F. 405.255.7575

**BROOKS ROAD EXPANSION**  
 ENABLE MIDSTREAM PARTNERS  
 7207 BROOKS RD  
 SHREVEPORT, LA 71129



**EXECUTIVE DIRECTOR APPROVAL**

8-22-18  
 Date By



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NO.	DESCRIPTION	DATE
1	REVISION 1	08-20-18

X  
 MPC EXECUTIVE DIRECTOR  
 SIGNATURE DATE

ISSUE DATE: 08/01/2018  
 PROJECT NUMBER: 201723

LANDSCAPE PLAN

SHEET NUMBER  
**L2.01**



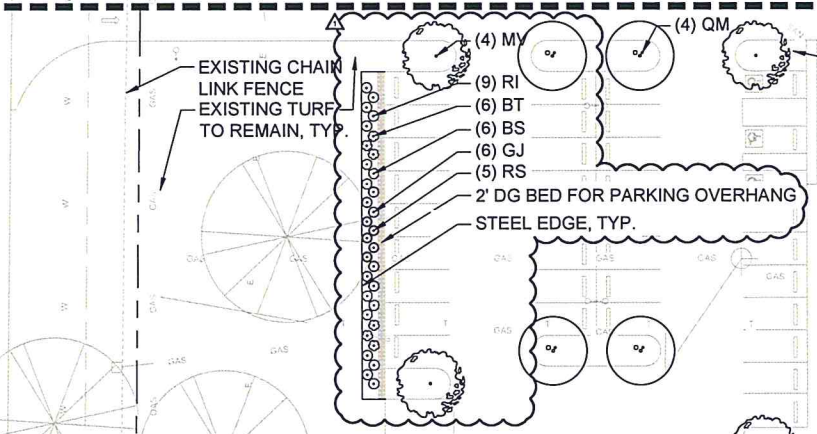
Landscape Requirements	Required	Existing	Provided
<b>Required Shade Tree Planting</b>			
On Site Trees	0	-	0
Parkway Trees (1 per 251 f)	0	-	0
North Interior Buffer Yard	-	-	-
30' Wide Yard	Yes	Yes	*
Shade Trees (1 per 30 l.f. of buffer yard length)	22	-	*
Solid Fence or Masonry Wall	Yes	-	*
Shrubs (1 per 3 l.f. of buffer length)	212	-	*
Rear Landscape Buffer	-	-	-
30' Wide Yard	Yes	Yes	*
Shade Trees (1 per 30 l.f. of buffer yard length)	33	-	*
Solid Fence or Masonry Wall	Yes	-	*
Shrubs (1 per 3 l.f. of buffer length)	329	-	*
South Interior Buffer	-	-	-
30' Wide Yard	Yes	Yes	*
Shade Trees (1 per 30 l.f. of buffer yard length)	15	-	*
Solid Fence or Masonry Wall	Yes	-	*
Shrubs (1 per 3 l.f. of buffer length)	141	-	*
Brooks Road Landscape Buffer	-	-	-
15' min. Planting Area Width	Yes	Yes	Yes
Trees (1 shade or 3 ornamental per 500 sq. ft. of planting area)	6	7	3
Parking Lot Plantings	-	-	-
Parking Lot Islands (1/per 10 spaces + termination of row)	5	-	5
Trees within parking islands	8	-	8

\*Administrative Exception to Zoning is requested to defer the required North Interior, Rear, and South Interior Buffer Yards and landscaping until such a time that residential development occurs on adjacent properties.

BROOKS ROAD

PROPERTY LINE

PROPERTY LINE



PARKING ISLANDS TO RECEIVE TURF, TYP.

EXISTING TURF TO REMAIN, TYP.

EXISTING TREE TO REMAIN, TYP.

EXISTING CHAIN LINK FENCE  
 EXISTING TREE TO REMAIN, TYP.

15' MIN. RIGHT OF WAY BUFFER  
 EXISTING TURF TO REMAIN, TYP.  
 EXISTING TREE TO REMAIN, TYP.

EXISTING TURF TO REMAIN, TYP.

EXISTING TREE TO REMAIN, TYP.

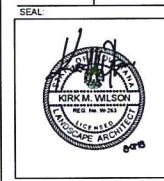
EXISTING TREE TO REMAIN, TYP.  
 EXISTING CHAIN LINK FENCE

PLANT LIST AND LEGEND							
SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	CONT	SPACING	CAL	QTY
<b>SHADE TREES</b>							
	MV	MAGNOLIA VIRGINIANA	SWEET BAY	30 GAL	REFER TO PLAN	3" CAL	4
	QM	QUERCUS MUEHLENBERGII	CHINKAPIN OAK	45 GAL	REFER TO PLAN	3" CAL	4
	QS	QUERCUS SHUMARDII	SHUMARD RED OAK	45 GAL	REFER TO PLAN	3" CAL	3
<b>EVERGREEN SHRUBS</b>							
	BT	BERBERIS THUNBERGII	JAPANESE BARBERRY	5 GAL	REFER TO PLAN	-	6
	BS	BUXUS SEMPERVIRENS	COMMON BOXWOOD	5 GAL	REFER TO PLAN	-	6
	GJ	GARDENIA JASMINOIDES	GARDENIA	5 GAL	REFER TO PLAN	-	6
	RI	RHAPHIOLEPIS INDICA	INDIAN HAWTHORN	5 GAL	REFER TO PLAN	-	9
	RS	RHODODENDRON SPP.	AZALEA	5 GAL	REFER TO PLAN	-	5

**EXECUTIVE DIRECTOR APPROVAL**

8-22-18  
 Date

By



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NO.	DESCRIPTION	DATE
1	REVISION 1	08-21-18

X  
 MPC EXECUTIVE DIRECTOR  
 SIGNATURE DATE

ISSUE DATE: 08/01/2018

PROJECT NUMBER: 201723

LANDSCAPE PLAN

SHEET NUMBER



**BROOKS ROAD EXPANSION**  
 ENABLE MIDSTREAM PARTNERS  
 7207 BROOKS RD  
 SHREVEPORT, LA 71129

**PLANTING SPECIFICATIONS**

NOTE: All tree plantings to receive a Pro-active Micorrhizal treatment at time of planting and during "establishment" as specified by (Plant Health Care, Inc.) www.planthealthcare.com 1.800.421.9051

**PREPARATION**  
 LANDSCAPE CONTRACTOR AND REPRESENTATIVE OF OWNER SHALL BE RESPONSIBLE FOR VERIFYING THE CORRECT LOCATION OF ALL UNDERGROUND UTILITIES, PIPES, STRUCTURES, AND LINE RUNS IN THE FIELD PRIOR TO THE INSTALLATION OF ANY PLANT MATERIALS.

**PLANT LOCATIONS**  
 REFER TO PLANTING PLAN FOR PLANTING LOCATION AND PLANT MATERIAL LEGEND FOR SPECIFICATIONS. MATERIAL LOCATION TO BE STAKED IN THE FIELD AND APPROVED BY LANDSCAPE ARCHITECT PRIOR TO PLANTING.

**GRADING AND DRAINAGE**  
 Half Associates, Inc. ASSUMES NO RESPONSIBILITY FOR FAILURE OF ANY HARDSCAPE AMENITY SUCH AS WALKS, ENTRANCES TO STRUCTURES, AND PLANTER BEDS FORMED OR ENCLOSED BY EDGING AND FLAT WORK WHICH DO NOT DRAIN DUE TO IMPROPER SET UP OF ELEVATIONS DURING CONSTRUCTION. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR FINE GRADING, AND VERIFYING THAT WATER DRAINS AWAY FROM BUILDING.

**COORDINATION**  
 LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH OTHER CONTRACTORS ON SITE AS REQUIRED TO ACCOMPLISH ALL PLANTING OPERATIONS.

**MAINTENANCE**  
 LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL PLANTING BEDS IN A WEED AND DEBRIS FREE CONDITION AND SHALL ACCOMPLISH WATERING BY HAND AS DEEMED NECESSARY UNTIL SUBSTANTIAL COMPLETION AND ACCEPTANCE BY THE OWNER. THE CONTRACTOR SHALL MAINTAIN ALL WORK FOR A PERIOD OF 365 DAYS AFTER SUBSTANTIAL COMPLETION AND ACCEPTANCE.

**VERIFICATION**  
 LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL QUANTITIES PER DRAWINGS AND SPECIFICATION BY LANDSCAPE ARCHITECT. PLANT QUANTITIES HAVE BEEN PROVIDED AS A CONVENIENCE ONLY AND SHALL NOT BE CONSIDERED ABSOLUTE. LANDSCAPE ARCHITECT TO BE NOTIFIED IF DISCREPANCIES OCCUR. OTHERWISE, THE CONTRACTOR IS TO BID THEIR OWN VERIFIED QUANTITIES PER LANDSCAPE PLAN.

**PLANTING BEDS**  
 ALL BED AREAS ARE TO BE LEFT AT MIN. 1 1/2" ABOVE FINISHED GRADE OF ADJACENT PAVEMENT TO INCLUDE 3" OF MULCH AFTER COMPACTION AND SETTLEMENT. ALL BED AREAS SHALL BE ROTOTILLED TO A DEPTH SPECIFIED, ADDING PREPARED SOIL MIXTURE AS REQUIRED.

**MULCH**  
 AFTER SETTLEMENT AND COMPACTION, ALL PLANTING BEDS SHALL RECEIVE A MINIMUM 3" LAYER OF MULCH. ALL AREAS DISTURBED BY PLANTING OPERATIONS SHALL BE FINE GRADED AND RE SEED.

**PLANT MATERIAL STANDARDS**  
 ALL PLANT MATERIAL SHALL CONFORM TO THE SIZES GIVEN IN THE PLANT LIST AND SHALL BE NURSERY GROWN IN ACCORDANCE WITH THE "AMERICAN STANDARD FOR NURSERY STOCK", LATEST EDITION. ALL PLANTING SHALL BE IN ACCORDANCE WITH STANDARD AMERICAN ASSOCIATION OF NURSERYMEN PROCEDURES AND SPECIFICATIONS. LANDSCAPE ARCHITECT SHALL APPROVE ANY PLANT SUBSTITUTION.

**PRUNING**  
 ALL TREES ARE TO BE PRUNED AT TIME OF INSTALLATION TO REMOVE DEAD AND UNSIGHTLY LIMBS. ALL TREES ARE TO MATCH IN HEIGHT, SPREAD, AND CLEAR TRUNK, AND SHALL HAVE STRAIGHT TRUNKS.

**PLANTING SOIL MIXTURE**  
 ALL SOIL SHALL BE TESTED PER THE OWNER'S STANDARDS AND PROVIDE AMENDMENTS AS NEEDED. ALL PLANTING BEDS SHALL INCLUDE HIGH QUALITY TOPSOIL AT 6" DEPTH.

**SOIL TESTING**  
 CONTRACTOR TO PROVIDE SAMPLES OF SOIL TESTING TO THE OWNER FOR APPROVAL PRIOR TO INSTALLATION OF PLANT MATERIAL.

**TOPSOIL**  
 HIGH QUALITY TOPSOIL SHALL BE PROVIDED AT 4" DEPTH FOR ALL AREAS EXCLUDING PLANTING BEDS PER THE OWNER'S STANDARDS.

**TREE SUPPORT**  
 TREES SHALL BE SUPPORTED WITH THE APPROVED METHOD FOR A PERIOD OF ONE YEAR AT WHICH TIME THE OWNER SHALL DETERMINE IF REMOVAL IS NECESSARY.

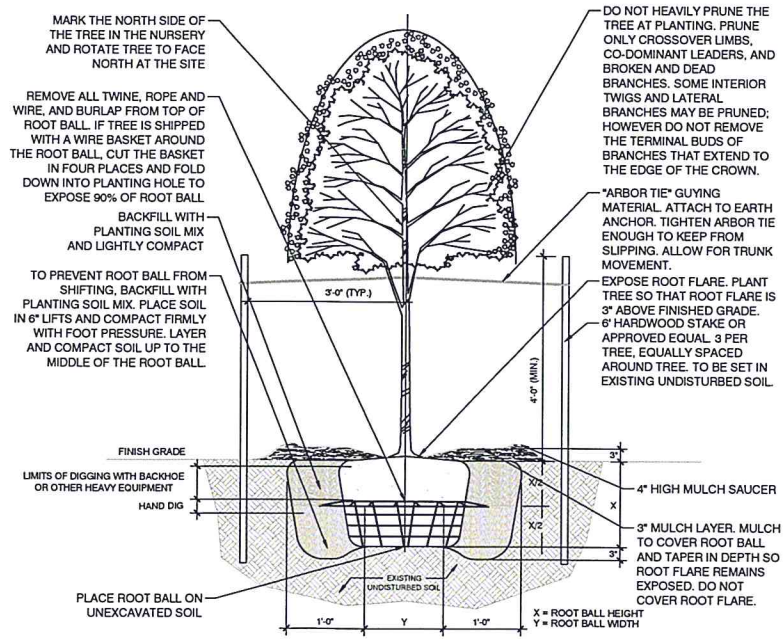
**WARRANTY**  
 ALL PLANT MATERIAL TO BE GUARANTEED FOR A PERIOD OF ONE-YEAR FROM SUBSTANTIAL COMPLETION AND ACCEPTANCE BY THE OWNER.

**IRRIGATION SYSTEM**  
 IRRIGATION CONTRACTOR TO INSTALL NEW IRRIGATION SYSTEM DESIGNED BY A TEXAS LICENSED IRRIGATOR TO PROVIDE 100% COVERAGE FOR AFFECTED TURF AND BED AREAS. DESIGN SHALL BE PROVIDED BY Half Associates, Inc. TO THE OWNER FOR REVIEW PRIOR TO INSTALLATION.

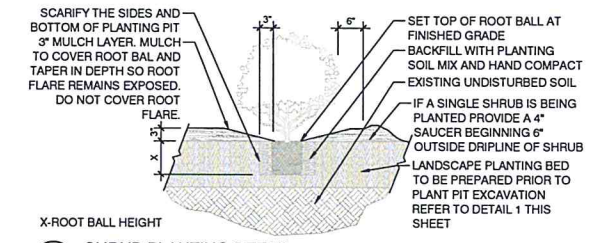
*LOUISIANA 40*

**EXECUTIVE  
 DIRECTOR  
 APPROVAL**

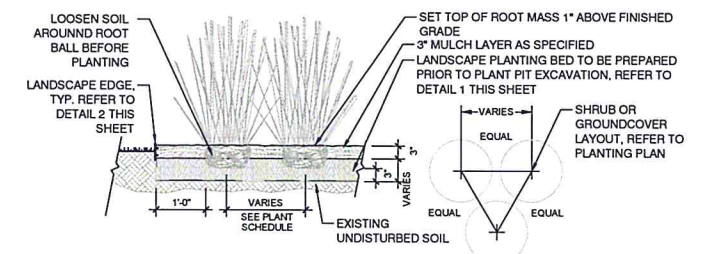
8-22-18  
 Date By *[Signature]*



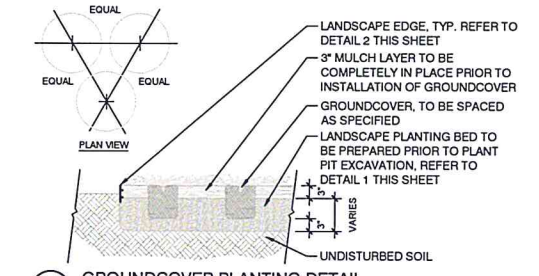
**6 SINGLE TREE TRUNK WITH STAKES**  
 3/4" = 1'-0"



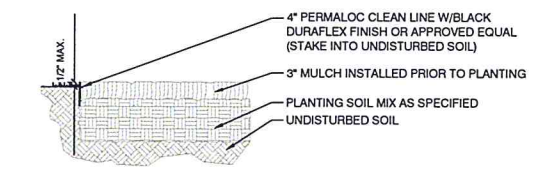
**5 SHRUB PLANTING DETAIL**  
 3/4" = 1'-0"



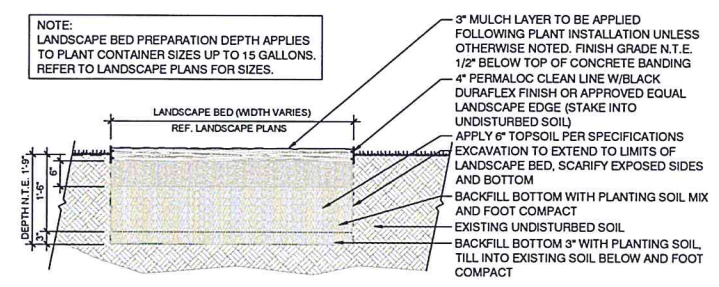
**4 ORNAMENTAL GRASS**  
 3/4" = 1'-0"



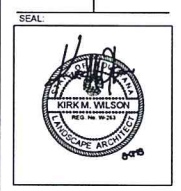
**3 GROUND COVER PLANTING DETAIL**  
 3/4" = 1'-0"



**2 STEEL EDGE (TYP.)**  
 3/4" = 1'-0"



**1 LANDSCAPE BED PREPARATION**  
 3/4" = 1'-0"



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100% IFC

REVISIONS		
NO.	DESCRIPTION	DATE

3/4" EXECUTIVE DIRECTOR SIGNATURE DATE

ISSUE DATE: 05/01/2018

PROJECT NUMBER: 201723

PLANTING DETAILS

SHEET NUMBER

**L3.01**





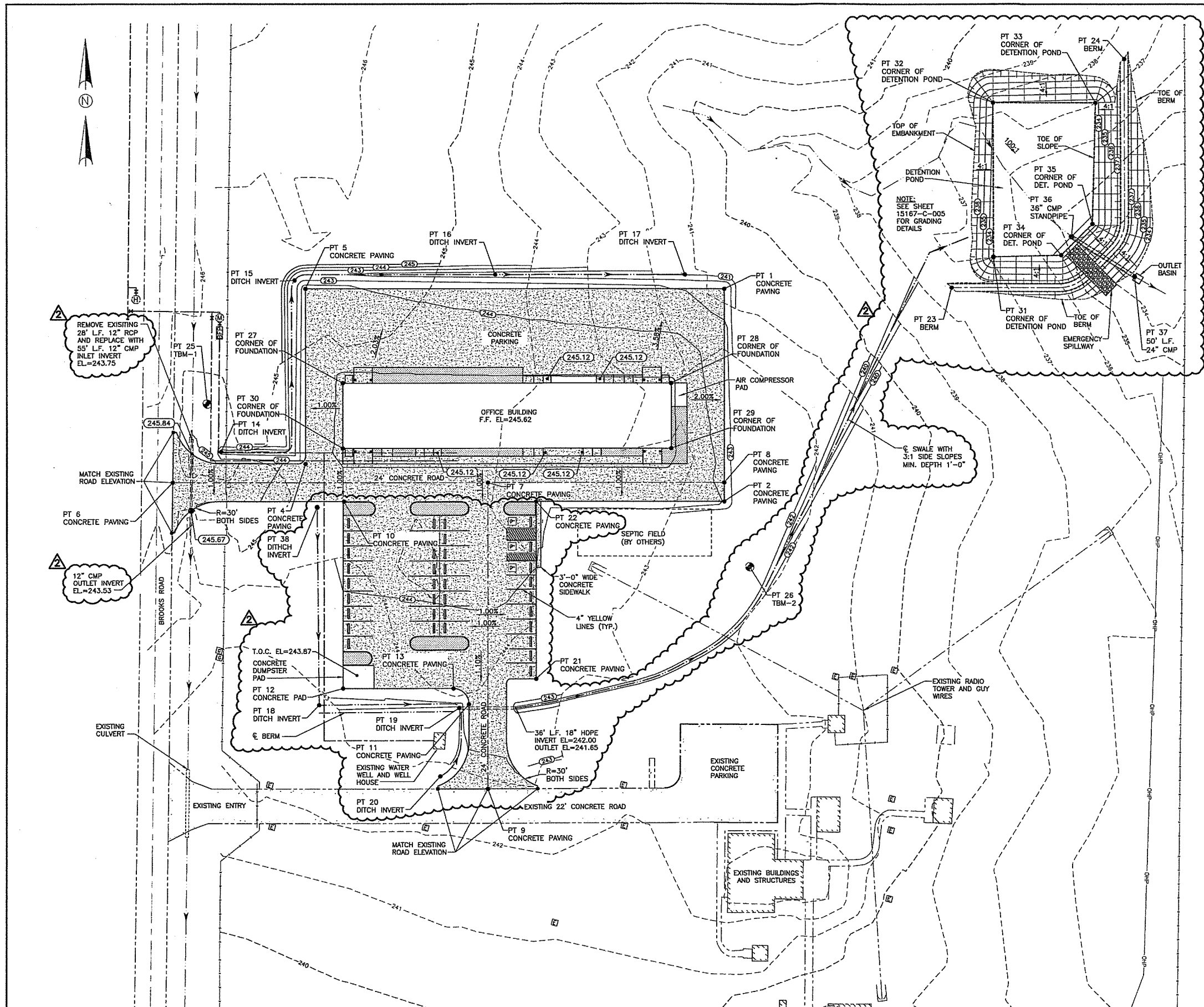
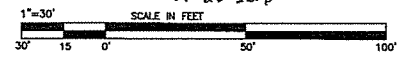


**LEGEND**

- EXISTING STRUCTURE
- EXISTING OVER HEAD POWER CABLE
- EXISTING FENCE
- EXISTING DITCH/SWALE
- PROPOSED DITCH/SWALE
- PROPOSED CONCRETE ROAD/PARKING
- EXISTING CONCRETE ROAD
- LANDSCAPING
- EXISTING TELEPHONE BOX
- EXISTING ELECTRIC BOX
- EXISTING GAS METER
- TEMPORARY BENCHMARK

LA83-NF POINT TABLE				
POINT NUMBER	ITEM DESCRIPTION	NORTHING	EASTING	ELEVATION
1	CONCRETE PAVING	707378.12	2851910.32	242.83
2	CONCRETE PAVING	707242.87	2851908.93	243.97
3	NOT USED	0.00	0.00	0.00
4	CONCRETE PAVING	707269.56	2851640.46	244.68
5	CONCRETE PAVING	707380.80	2851641.60	244.18
6	CONCRETE PAVING	707258.40	2851555.13	245.32
7	CONCRETE PAVING	707256.42	2851757.45	244.90
8	CONCRETE PAVING	707254.92	2851909.06	243.87
9	CONCRETE PAVING	707061.46	2851755.62	242.87
10	CONCRETE PAVING	707245.33	2851664.88	244.78
11	CONCRETE PAVING	707115.52	2851744.07	243.32
12	CONCRETE PAD	707126.34	2851663.18	243.15
13	CONCRETE PAVING	707125.61	2851734.17	243.40
14	DITCH INVERT	707277.76	2851586.26	242.83
15	DITCH INVERT	707386.30	2851634.59	242.14
16	DITCH INVERT	707388.58	2851763.52	241.49
17	DITCH INVERT	707387.37	2851885.27	240.85
18	DITCH INVERT	707115.91	2851647.63	242.75
19	DITCH INVERT	707113.22	2851737.83	243.05
20	DITCH INVERT	707069.72	2851725.32	242.77
21	CONCRETE PAVING	707131.09	2851787.23	243.42
22	CONCRETE PAVING	707244.08	2851788.35	244.78
23	BERM	707377.54	2852056.96	237.50
24	BERM	707521.55	2852169.11	237.75
25	TEMPORARY BENCHMARK	707308.27	2851577.66	244.93
26	TEMPORARY BENCHMARK	707200.98	2851924.84	242.33
27	CORNER OF FOUNDATION	707320.69	2851664.88	245.62
28	CORNER OF FOUNDATION	707318.58	2851875.85	245.62
29	CORNER OF FOUNDATION	707277.09	2851875.44	245.62
30	CORNER OF FOUNDATION	707279.19	2851664.37	245.12
31	CORNER OF DETENTION POND	707396.72	2852083.85	233.26
32	CORNER OF DETENTION POND	707494.79	2852084.83	233.96
33	CORNER OF DETENTION POND	707494.14	2852150.31	233.49
34	CORNER OF DETENTION POND	707397.49	2852127.26	233.05
35	CORNER OF DETENTION POND	707417.24	2852147.41	233.05
36	36" CMP STANDPIPE INV. EL.	707409.30	2852133.98	233.00
37	24" CMP INV. EL.	707383.53	2852174.10	233.16
38	24" CMP INV. EL.	707241.89	2851647.59	244.42

NOTE:  
 1. REFER TO GPRS DRAWING NO.17GP549JC4 FOR EXISTING UNDERGROUNDS.  
 2. CONTRACTOR TO VERIFY ALL UNDERGROUND PRIOR TO EXCAVATION.



REV.	DATE	BY	CHK'D	APP'D	REVISION DESCRIPTION	REV.	DATE	BY	CHK'D	APP'D	REVISION DESCRIPTION
2	7/26/18	TPH	KAS	RDH	ISSUED FOR REVISION	1	6/15/18	TPH	KAS	RDH	CHANGED GRAVEL PARKING TO CONCRETE
0	5/09/18	TPH	KAS	RDH	ISSUED FOR CONSTRUCTION						

DATE:	4/10/18
DRAWN:	TPH
CHECKED:	KAS
APPROVED:	RDH
PROJ. NO.:	15167
DWG. NUMBER:	15167-A-002

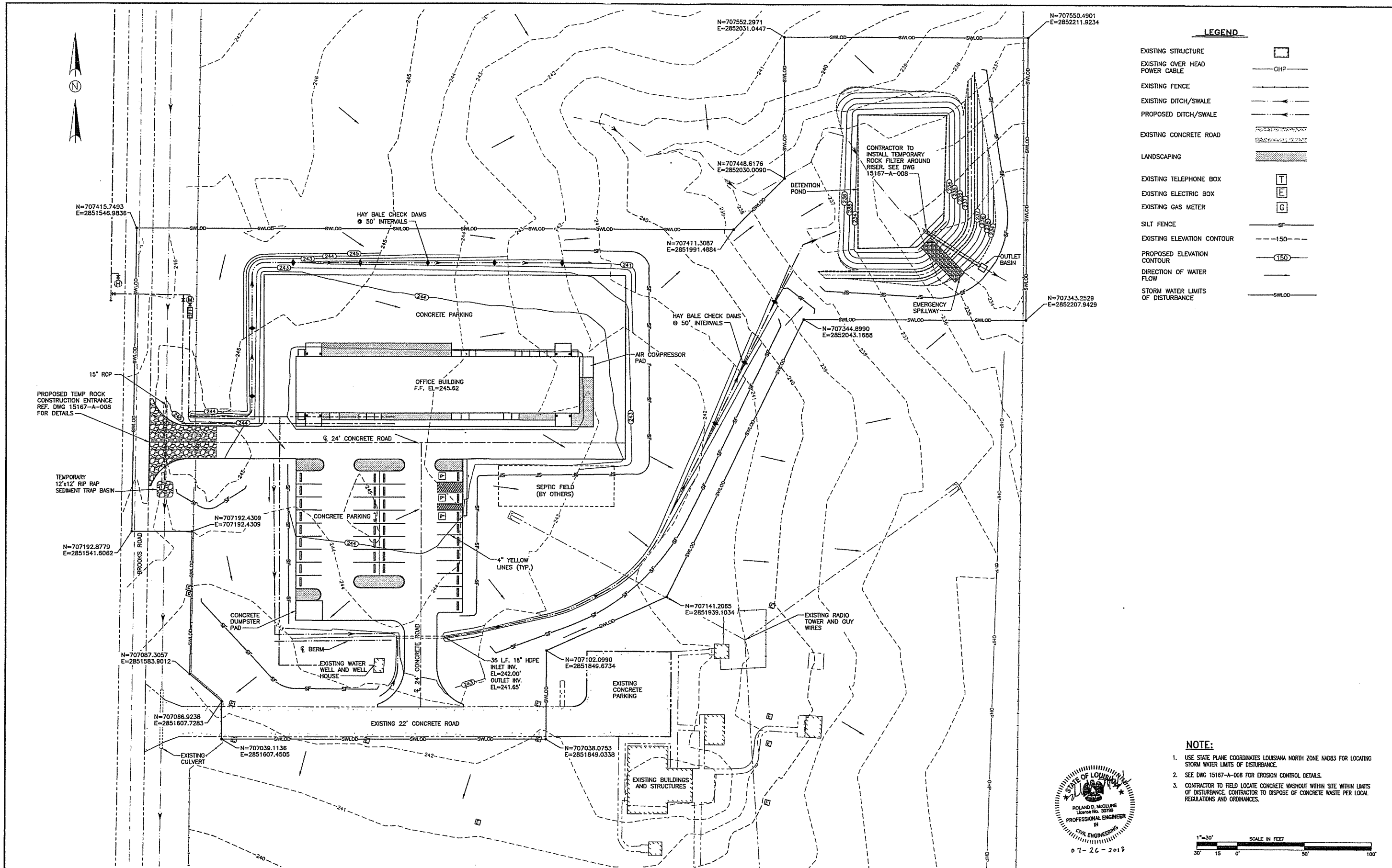
  

<b>R-S-H ENGINEERING, INC.</b>	MONROE, LA	TEL. (318)361-3000
WWW.RSH.COM	FAX (318)387-4828	
JOB NO: 15167	LIC. NO: 1795	

CLIENT:	MILES ASSOCIATES 865 RESEARCH PARKWAY, SUITE 100 OKLAHOMA CITY, OK 73104
TITLE:	ENABLE BROOKS ROAD EXPANSION GRADE PLAN
DRAWING NUMBER:	15167-A-002
SHEET:	1 OF 1
REV.:	2

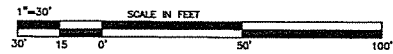
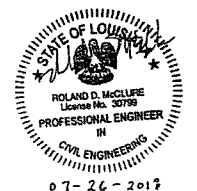




**LEGEND**

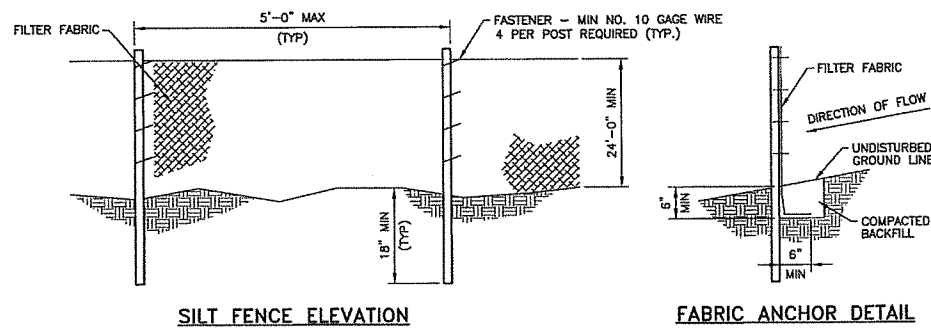
EXISTING STRUCTURE	
EXISTING OVER HEAD POWER CABLE	
EXISTING FENCE	
EXISTING DITCH/SWALE	
PROPOSED DITCH/SWALE	
EXISTING CONCRETE ROAD	
LANDSCAPING	
EXISTING TELEPHONE BOX	
EXISTING ELECTRIC BOX	
EXISTING GAS METER	
SILT FENCE	
EXISTING ELEVATION CONTOUR	
PROPOSED ELEVATION CONTOUR	
DIRECTION OF WATER FLOW	
STORM WATER LIMITS OF DISTURBANCE	

- NOTE:**
- USE STATE PLANE COORDINATES LOUISIANA NORTH ZONE NAD83 FOR LOCATING STORM WATER LIMITS OF DISTURBANCE.
  - SEE DWG 15167-A-008 FOR EROSION CONTROL DETAILS.
  - CONTRACTOR TO FIELD LOCATE CONCRETE WASHOUT WITHIN LIMITS OF DISTURBANCE. CONTRACTOR TO DISPOSE OF CONCRETE WASTE PER LOCAL REGULATIONS AND ORDINANCES.



<p>REFERENCE DRAWINGS:</p> <ol style="list-style-type: none"> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> </ol>	<table border="1"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>BY</th> <th>CHK'D</th> <th>APP'D</th> <th>REVISION DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>7/26/18</td> <td>TPH</td> <td>KAS</td> <td>RDM</td> <td>ISSUED FOR CONSTRUCTION</td> </tr> </tbody> </table>	REV.	DATE	BY	CHK'D	APP'D	REVISION DESCRIPTION	0	7/26/18	TPH	KAS	RDM	ISSUED FOR CONSTRUCTION	<p>SCALE: 1"=30'</p> <p>DATE: 7/24/18</p> <p>DRAWN: TPH</p> <p>CHECKED: KAS</p> <p>APPROVED: RDM</p> <p>PRCL. NO: 15167</p> <p>CAD FILENAME: 15167-A-002</p>	<p><b>R-S-H ENGINEERING, INC.</b></p> <p>MONROE, LA. TEL. (318)361-3000 WWW.RSH.COM FAX (318)387-4828 JOB NO: 15167 LIC. NO: 1785</p>	<p>CLIENT:</p> <p>MILES ASSOCIATES 865 RESEARCH PARKWAY, SUITE 100 OKLAHOMA CITY, OK 73104</p>	<p>TITLE:</p> <p>ENABLE BROOKS ROAD EXPANSION EROSION CONTROL PLAN</p> <table border="1"> <tr> <td>DRAWING NUMBER:</td> <td>SHEET</td> <td>REV.</td> </tr> <tr> <td>15167-A-007</td> <td>1</td> <td>1</td> </tr> </table>	DRAWING NUMBER:	SHEET	REV.	15167-A-007	1	1
REV.	DATE	BY	CHK'D	APP'D	REVISION DESCRIPTION																		
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15167-A-007	1	1																					



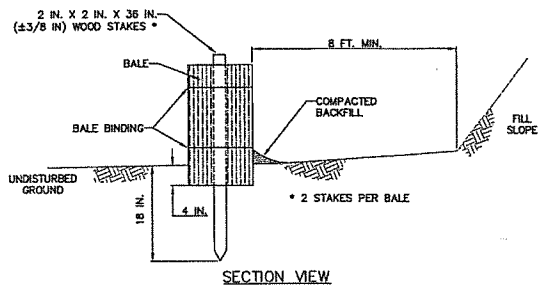


**SILT FENCE NOTES**

1. TEMPORARY SILT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. THEY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.
2. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 GEOTEXTILE TABLE 1 OR 2, CLASS 1 WITH EQUIVALENT OPENING SIZE OF AT LEAST 30 FOR NON-WOVEN AND 40 FOR WOVEN.
3. FENCE POSTS SHALL BE EITHER STANDARD STEEL POST OR WOOD POST WITH A MINIMUM CROSS-SECTIONAL AREA OF 3.0 SQ. IN.

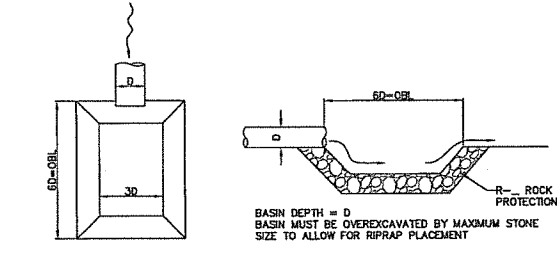
**INSTALLATION REQUIREMENTS:**

WHEN USING SILT FENCE, PLACE IT:  
 BETWEEN DISTURBED AREAS AND DOWN-SLOPE ENVIRONMENTAL RESOURCE AREAS  
 AT THE BASE OF ALL SLOPES NEXT TO WETLANDS, WATER BODIES, AND ROAD CROSSINGS  
 APPROXIMATELY 6 FEET BEYOND THE TOE OF THE SLOPE TO GIVE THE SEDIMENT ROOM TO COLLECT  
 USE BACKFILLING TO KEY IN THE BOTTOM OF THE FABRIC



**NOTES:**

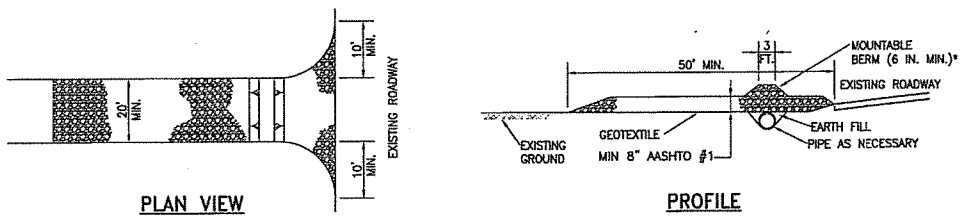
STRAW BALE BARRIERS SHALL NOT BE USED FOR PROJECTS EXTENDING MORE THAN 3 MONTHS.  
 STRAW BALE BARRIERS SHALL BE PLACED AT EXISTING LEVEL GRADE WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES. FIRST STAKE OF EACH BALE SHALL BE ANGLED TOWARD ADJACENT BALE TO DRAW BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE TOP OF THE BALE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT.  
 COMPACTED BACKFILL SHALL EXTEND APPROXIMATELY 4 IN. ABOVE GROUND LEVEL.  
 SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE ABOVE GROUND HEIGHT OF THE BARRIER. DAMAGED OR DETERIORATED BALES SHALL BE REPLACED IMMEDIATELY UPON INSPECTION.  
 BALES SHALL BE REMOVED WHEN THE TRIBUTARY AREA HAS BEEN PERMANENTLY STABILIZED.



**NOTES:**  
 ALL SEDIMENT TRAP OUTLET BASINS SHALL BE INSPECTED ON AT LEAST A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT.  
 DISPLACED RIPRAP WITHIN THE OUTLET BASIN SHALL BE REPLACED IMMEDIATELY.  
 SIDE SLOPES SHALL NOT EXCEED 1.5H:1V.

**STANDARD CONSTRUCTION DETAIL  
 SEDIMENT TRAP OUTLET BASIN DETAIL**

NOT TO SCALE



**ROCK CONSTRUCTION ENTRANCE**

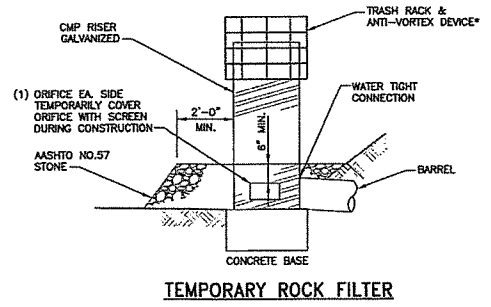
\* MOUNTABLE BERM USED TO PROVIDE PROPER COVER FOR PIPE

**NOTES:**

REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.  
 RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.  
 MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.  
 MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK, WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

**STANDARD CONSTRUCTION DETAIL  
 STRAW BALE BARRIER**

NOT TO SCALE



**EROSION CONTROL CONSTRUCTION NOTES:**

1. REFER TO FABRICATOR/CONTRACTOR SCOPE OF WORK DOCUMENT(S) FOR MILES ASSOCIATES SPECIFICATIONS & PROCEDURES INCLUDING, BUT NOT LIMITED TO, CONCRETE, GROUT, EXCAVATION, BACKFILLING, AND DE-WATERING.
2. EARTHWORK SHALL CONFORM TO MILES ASSOCIATES SPECIFICATIONS.
3. ALL SITE EXCAVATION, BACKFILL AND GRADING SHALL ADHERE TO MILES ASSOCIATES SPECIFICATION.
4. MINIMIZE DISTURBANCE AND SCARIFICATION OF SURFACE AND SUBGRADE DURING CONSTRUCTION. FILL LOW SPOTS WITH APPROVED FILL MATERIAL AND COMPACT.
5. REMOVE ORGANIC TOPSOIL MATERIAL (ESTIMATED AT 8") AND REPLACE WITH FILL MATERIAL AS NEEDED. VERIFY REMOVAL LIMITS WITH MILES ASSOCIATES OR EUBLE REPRESENTATIVE.
6. RESTORE RE-GRADED AREAS OUTSIDE OF THE PROPOSED GRAVEL PAD AND ACCESS ROAD WITH 6" OF TOPSOIL AND NATIVE MATERIAL VEGETATE WITH SEED MIX THAT MEETS LOCAL VEGETATION REQUIREMENTS. SEEDING AREA SHALL BE PROTECTED WITH A TEMPORARY EROSION CONTROL BLANKET (ECB) UNTIL GROWTH IS SUFFICIENT TO PROVIDE ADEQUATE PROTECTION.
7. THE FOLLOWING CONSTRUCTION SEQUENCE IS RECOMMENDED AS A GUIDELINE IN ORDER TO BEST MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENTATION CONTROL PROBLEMS:
  - A) CLEAR AND GRUB SUFFICIENTLY FOR INSTALLATION OF TEMPORARY EROSION AND SEDIMENT CONTROL (ESC) BEST MANAGEMENT PRACTICE MEASURES (BMPs);
  - B) INSTALL TEMPORARY ESC BMPs, CONSTRUCTING SEDIMENT TRAPPING BMPs AS ONE OF THE FIRST STEPS PRIOR TO GRADING;
  - C) CLEAR, GRUB AND ROUGH GRADE FOR ROADS, TEMPORARY ACCESS POINTS AND UTILITY LOCATIONS;
  - D) STABILIZE ROADWAY APPROACHES AND TEMPORARY ACCESS POINTS WITH THE APPROPRIATE CONSTRUCTION ENTRY BMP;
  - E) CLEAR, GRUB AND GRADE SUBJECT SITE;
  - F) TEMPORARILY STABILIZE SUBJECT SITE THROUGH RE-VEGETATION OR OTHER APPROPRIATE BMPs IN SITUATIONS WHERE SUBSTANTIAL CUT OR FILL SLOPES ARE A RESULT OF THE SITE GRADING;
  - G) CONSTRUCT ROADS, BUILDINGS, PERMANENT STORM WATER FACILITIES (i.e. INLETS, PONDS, UIC FACILITIES, ETC.);
  - H) PROTECT ALL PERMANENT STORM WATER FACILITIES UTILIZING THE APPROPRIATE BMPs;
  - I) INSTALL PERMANENT ESC CONTROLS, WHEN APPLICABLE; AND,
  - J) REMOVE TEMPORARY ESC CONTROLS WHEN:
    - I. PERMANENT ESC CONTROLS, WHEN APPLICABLE, HAVE BEEN COMPLETELY INSTALLED;
    - II. ALL LAND-DISTURBING ACTIVITIES THAT HAVE THE POTENTIAL TO CAUSE EROSION OR SEDIMENTATION PROBLEMS HAVE CEASED; AND,
    - III. VEGETATION HAS BEEN ESTABLISHED IN THE AREAS NOTED AS REQUIRING VEGETATION ON THE ACCEPTED ESC PLAN ON FILE WITH LOCAL JURISDICTION.
8. RESTORE CONSTRUCTION ACCESS ROUTE EQUAL TO OR BETTER THAN THE PRE-CONSTRUCTION CONDITION.
9. RETAIN THE DUFF LAYER, NATIVE TOPSOIL, AND NATURAL VEGETATION IN AN UNDISTURBED STATE TO THE MAXIMUM EXTENT PRACTICAL.
10. INSPECT SEDIMENT CONTROL BMPs WEEKLY AT A MINIMUM, DAILY DURING A STORM EVENT, AND AFTER ANY DISCHARGE FROM THE SITE (STORM WATER OR NON-STORMWATER). THE INSPECTION FREQUENCY MAY BE REDUCED TO ONCE A MONTH IF THE SITE IS STABILIZED AND INACTIVE.
11. CONTROL FUGITIVE DUST FROM CONSTRUCTION ACTIVITY IN ACCORDANCE WITH THE STATE AND/OR LOCAL AIR QUALITY CONTROL AUTHORITIES WITH JURISDICTION OVER THE PROJECT AREA. DO NOT USE WATER WHEN IT MAY DAMAGE ADJACENT CONSTRUCTION OR CREATE HAZARDOUS OR OBJECTIONABLE CONDITIONS, SUCH AS ICE, FLOODING, AND POLLUTION.
12. STABILIZE EXPOSED UNWORKED SOILS (INCLUDING STOCKPILES) WHETHER AT FINAL GRADE OR NOT WITHIN 10 DAYS DURING THE REGIONAL DRY SEASON AND WITHIN 5 DAYS DURING THE REGIONAL WET SEASON. SOILS MUST BE STABILIZED AT THE END OF A SHIFT BEFORE A HOLIDAY WEEKEND IF NEEDED BASED ON THE WEATHER FORECAST. THIS TIME LIMIT MAY ONLY BE ADJUSTED BY A LOCAL JURISDICTION WITH A "QUALIFIED LOCAL PROGRAM." IF IT CAN BE DEMONSTRATED THAT THE RECENT PRECIPITATION JUSTIFIES A DIFFERENT STANDARD AND MEETS THE REQUIREMENTS SET FORTH IN THE GENERAL PERMIT.
13. CONSTRUCT STORM WATER CONTROL FACILITIES (DETENTION/RETENTION STORAGE POND OR SWALES) BEFORE GRADING BEGINS. THESE FACILITIES SHALL BE OPERATIONAL BEFORE THE CONSTRUCTION OF IMPERVIOUS SITE IMPROVEMENTS.
15. REMOVE TEMPORARY ESC BMPs WITHIN 30 DAYS AFTER THE TEMPORARY BMPs ARE NO LONGER NEEDED. PERMANENTLY STABILIZE AREA THAT ARE DISTURBED DURING THE REMOVAL PROCESS.
16. PROVIDE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES TO PREVENT SOIL EROSION AND DISCHARGE OF SOIL-BEARING WATER RUNOFF OR AIRBORNE DUST TO ADJACENT PROPERTIES, ACCORDING TO REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY, INCLUDING OBTAINING THE APPROPRIATE PERMITS AND APPROVALS.
17. EROSION CONTROL MEASURES IN ADDITION TO THOSE INDICATED AS PART OF THIS PLAN MAY BE REQUIRED DUE TO UNFORESEEN CONDITIONS, IF THE MEASURES DO NOT FUNCTION AS INTENDED, OR IF THE AUTHORITIES HAVING JURISDICTION DETERMINE INDICATED MEASURES ARE INADEQUATE.
18. FILTER FENCE SHALL BE USED TO AID IN CONTAINING ANY SEDIMENT ON THE SITE DURING CONSTRUCTION. STABILIZED CONSTRUCTION ENTRANCES SHALL BE USED AT POINTS OF INGRESS AND EGRESS FOR CONSTRUCTION VEHICLES. STORM DRAIN INLET PROTECTION SHALL BE USED ON ALL STORM DRAIN STRUCTURES, INCLUDING CATCH BASINS AND DRYWELLS. THE CONTRACTOR SHALL KEEP THE AREAS ADJACENT TO THE SITE INCLUDING ROADWAYS AND PARKING LOTS FREE FROM DEBRIS. REFER TO THE EROSION AND SEDIMENT CONTROL MEASURE DETAILS FOR ADDITIONAL INFORMATION.
19. PROVIDE A DESIGNATED, POSTED CONCRETE WASHOUT AREA. THE CONCRETE WASHOUT SHALL NOT BE ALLOWED TO DRAIN OFF THE SITE OR INTO ANY EXISTING OR FUTURE STORM DRAINAGE FACILITIES. HARDENED CONCRETE WASHOUT SHALL BE BROKEN UP AND REMOVED FROM THE SITE.
20. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
21. APPLY A DRY-LAND SEED MIX TO ALL SOILS EXPOSED OR DISTURBED BY CONSTRUCTION ACTIVITIES. THE DISTURBED AREAS SHALL BE HYDROSEEDING USING A STANDARD HYDROSEED APPLICATION PER LOCAL STANDARD SPECIFICATIONS, INCLUDING WOOD FIBER MULCH, GUAR GUM TACKIFIER, AND SLOW RELEASE FERTILIZER. PRIOR TO APPLYING THE HYDROSEED, THE CONTRACTOR SHALL VERTICAL TRACK (WITH A CATERPILLAR OR SIMILAR) PERPENDICULAR TO THE CONTOURS TO SCARIFY THE SOIL ENOUGH TO PROVIDE PLACES FOR THE SEED TO STICK/ESTABLISH TO ALLOW FOR BETTER GERMINATION. APPLY SEEDING WITHIN FIVE (5) DAYS AFTER FINISHED GRADING IS COMPLETE. EROSION CONTROL BLANKETS MAY BE USED WHERE SEEDING IS NOT FEASIBLE.



REV.	DATE	BY	CHK'D	APP'D	REVISION DESCRIPTION	REV.	DATE	BY	CHK'D	APP'D	REVISION DESCRIPTION
0	7/26/18	TPH	KAS	ROD	ISSUED FOR CONSTRUCTION						

REFERENCE DRAWINGS:	SCALE: NONE	<p><b>R-S-H ENGINEERING, INC.</b>          MONROE, LA TEL: (318)361-3000          WWW.RSH.COM FAX: (318)387-4828          JOB NO: 15167 LIC. NO: 1795</p>	CLIENT: MILES ASSOCIATES 865 RESEARCH PARKWAY, SUITE 100 OKLAHOMA CITY, OK 73104	TITLE: ENABLE BROOKS ROAD EXPANSION EROSION CONTROL DETAILS & GENERAL NOTES	
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2.	CHECKED:			APPROVED:	DRAWING NUMBER:
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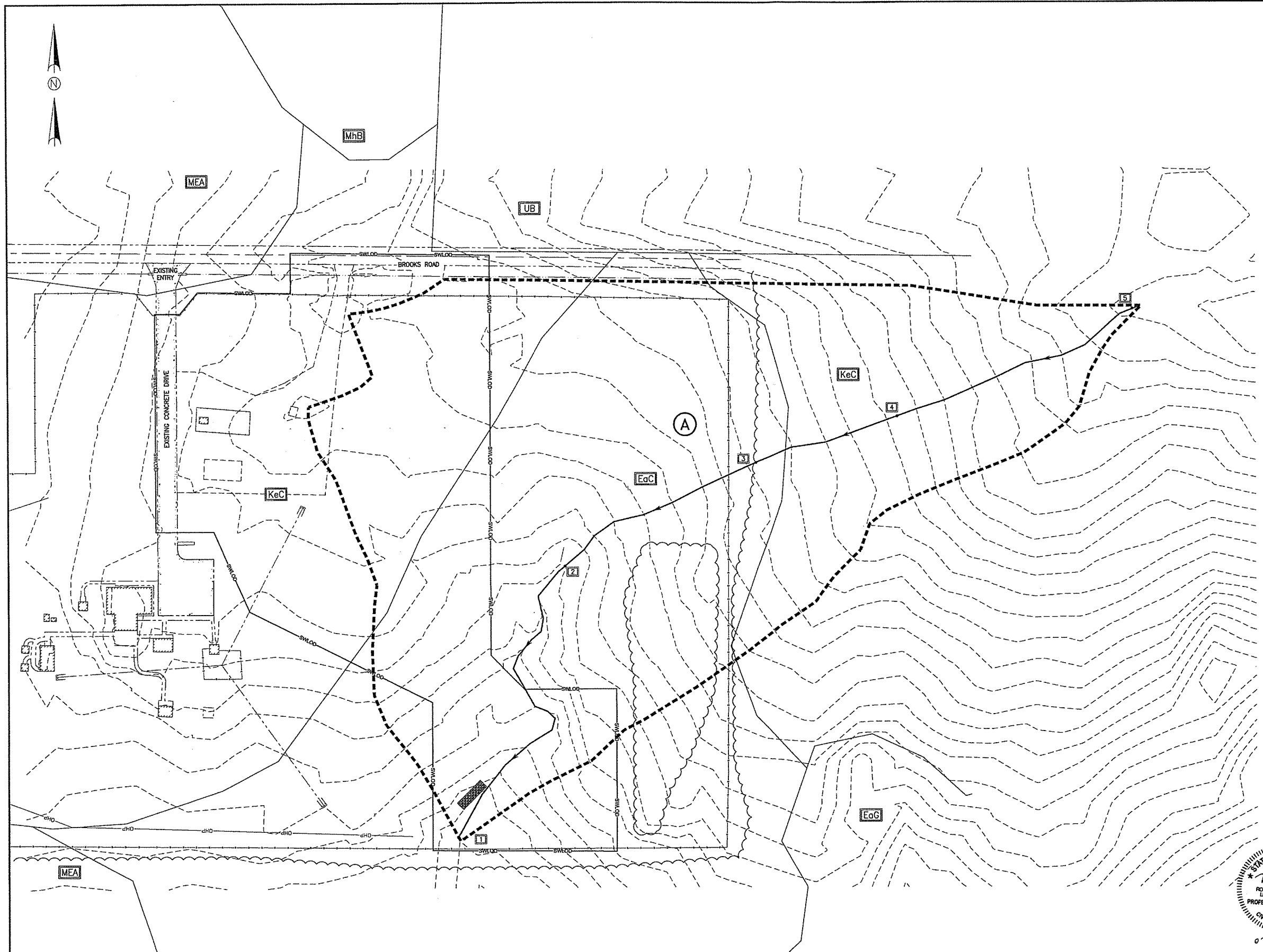
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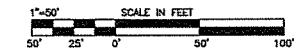
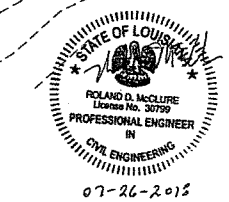
WATERSHED	A	LOD
ASPHALT	--	0.06
GRAVEL	0.03	0.56
CONCRETE	--	0.12
GRASS "C"	1.19	2.13
GRASS "D"	3.56	1.44
WOODED "C"	2.01	--
WOODED "D"	0.65	--
OVERALL	7.44	4.31
PERCENT IMPERVIOUS	0.40%	17.17%

**NOTE:**  
LETTERS "C" & "D" REPRESENT HYDROLOGIC SOIL GROUP



**LEGEND**

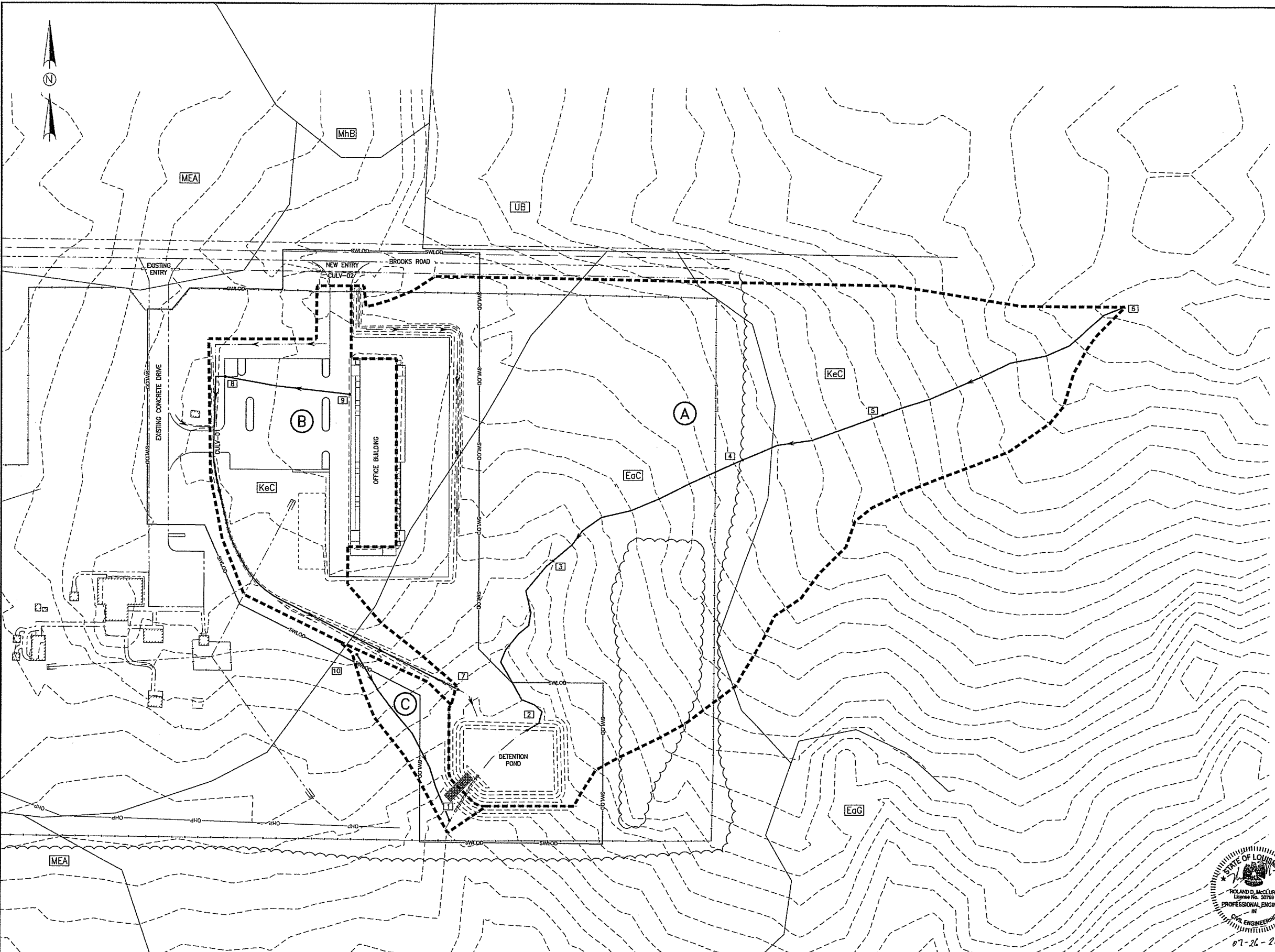
- WATERSHED (A)
- HYDRAULIC PATH (→)
- POINT OF INTEREST (3)
- STORMWATER MANAGEMENT LIMITS OF DISTURBANCE (--- SWLDO ---)
- SOIL TYPE (EaC)



REV.	DATE	BY	CHKD	APP'D	REVISION DESCRIPTION	REV.	DATE	BY	CHKD	APP'D	REVISION DESCRIPTION
0	7/26/18	TPH	KAS	RDM	ISSUED FOR CONSTRUCTION						

REFERENCE DRAWINGS: 1. 2. 3. 4. 5. 6. 7. 8.	SCALE: 1"=50' DATE: 4/13/18 DRAWN: TPH CHECKED: KAS APPROVED: RDM PROJ. NO.: 15167 CAD FILENAME: 15167-A-001	<b>R-S-H ENGINEERING, INC.</b> MONROE, LA. TEL: (318)361-3000 WWW.RSH.COM FAX: (318)387-4828 JOB NO: 15167 LIC. NO: 1795	CLIENT: <b>MILES ASSOCIATES</b> 865 RESEARCH PARKWAY, SUITE 100 OKLAHOMA CITY, OK 73104	TITLE: <b>ENABLE BROOKS ROAD EXPANSION          PRE-DEVELOPMENT          WATERSHED PLAN</b>
DRAWING NUMBER: 15167-A-009		SHEET: 1 OF 1		REV: 0



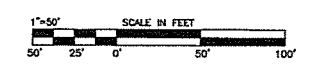


WATERSHED	A	B	C	LOD
WOODED "C"	2.05	--	--	--
WOODED "D"	0.78	--	--	--
GRASS "D"	3.28	0.09	0.26	1.34
GRASS "C"	0.52	0.66	--	1.57
ASPHALT	--	--	--	0.06
CONCRETE	0.42	0.54	--	1.14
STEEL	--	0.20	--	0.20
OVERALL	7.05	1.49	0.26	4.31
PERCENT IMPERVIOUS	5.96%	49.66%	0.00%	32.48%

**NOTE:**  
LETTERS "C" & "D" REPRESENT HYDROLOGIC SOIL GROUP

**LEGEND**

- WATERSHED (A)
- HYDRAULIC PATH (→)
- POINT OF INTEREST (3)
- STORMWATER MANAGEMENT LIMITS OF DISTURBANCE (SWLOD)
- SOIL TYPE (EaC)



REFERENCE DRAWINGS: 1. 2. 3. 4. 5. 6. 7. 8. 9.	<table border="1"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>BY</th> <th>CHK'D</th> <th>APP'D</th> <th>REVISION DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>7/26/18</td> <td>TPH</td> <td>KAS</td> <td>RDM</td> <td>ISSUED FOR CONSTRUCTION</td> </tr> </tbody> </table>	REV.	DATE	BY	CHK'D	APP'D	REVISION DESCRIPTION	0	7/26/18	TPH	KAS	RDM	ISSUED FOR CONSTRUCTION	<table border="1"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>BY</th> <th>CHK'D</th> <th>APP'D</th> <th>REVISION DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	REV.	DATE	BY	CHK'D	APP'D	REVISION DESCRIPTION							SCALE: 1"=50' DATE: 4/13/18 DRAWN: TPH CHECKED: KAS APPROVED: RDM PROJ. NO.: 15167 CAD FILENAME: 15167-A-001	<b>R-S-H ENGINEERING, INC.</b> MONROE, LA. TEL (318)361-3000 WWW.RSH.COM FAX (318)387-4828 JOB NO: 15167 LIC. NO: 1795	CLIENT: <b>MILES ASSOCIATES</b> 865 RESEARCH PARKWAY, SUITE 100 OKLAHOMA CITY, OK 73104	TITLE: <b>ENABLE BROOKS ROAD EXPANSION          POST DEVELOPMENT          WATERSHED PLAN</b>	DRAWING NUMBER: 15167-A-010	SHEET 1 of 1	REV. 0
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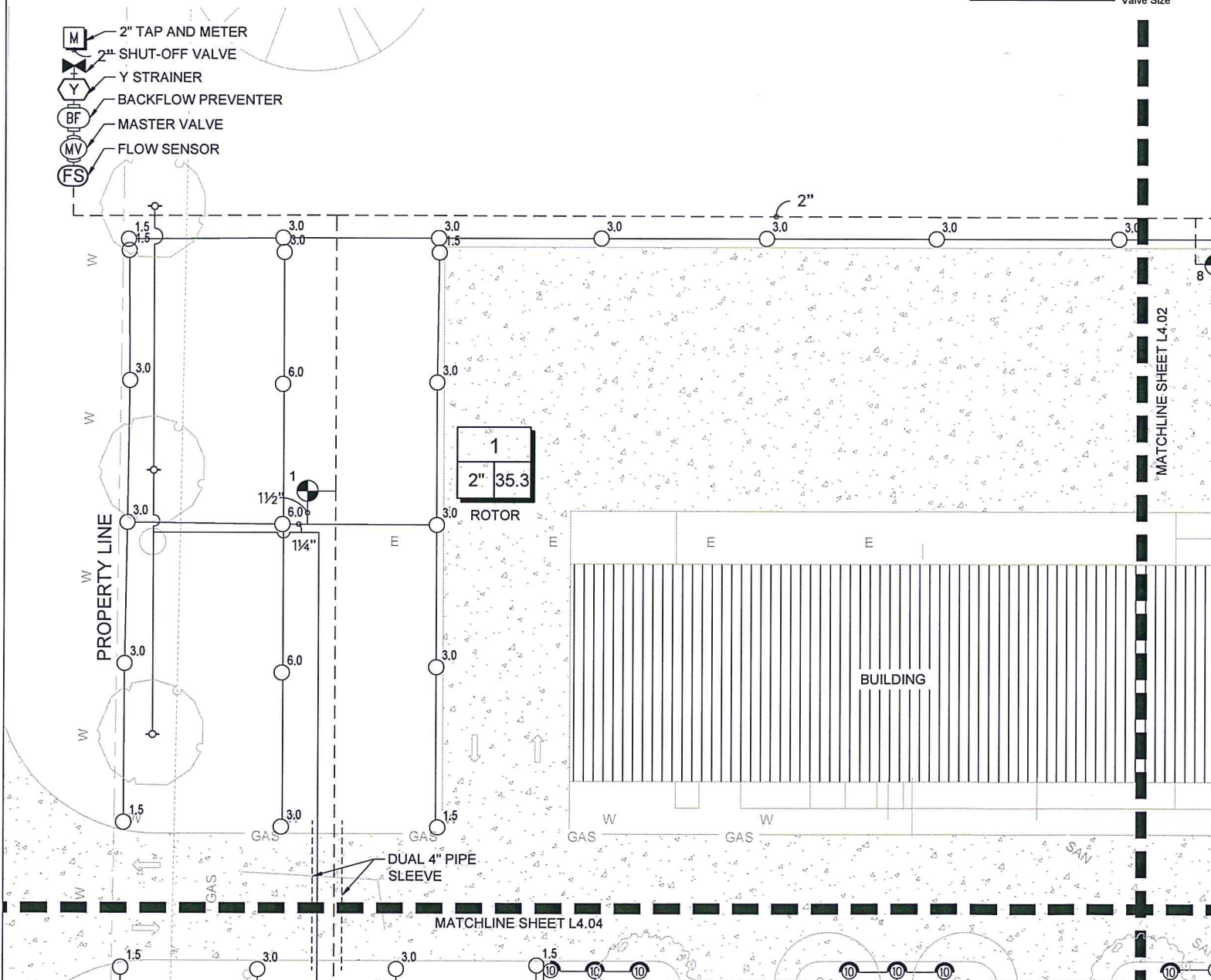
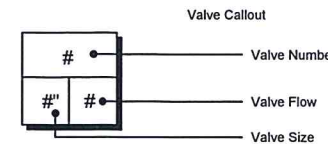


**IRRIGATION SCHEDULE**

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	SPR - Hunter PROS-04-PRS30-CV 10' radius Turf Spray, 30 psi regulated 4.0" Pop-Up. With factory installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material.	33
	BLR - Hunter PROS-06-CV-PCN Flood Bubbler, on fixed riser, 6.0" pop-up, Drain Check Valve	11
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	RTR - Hunter PGP-04-CV (ULTRA) Turf Rotor, 4.0" Pop-Up. Adjustable to Full Circle. With Drain Check Valve.	10
	RTR - Hunter PGP-04-CV (ULTRA) Turf Rotor, 4.0" Pop-Up. Adjustable to Full Circle. With Drain Check Valve.	40
	RTR - Hunter PGP-04-CV (ULTRA) Turf Rotor, 4.0" Pop-Up. Adjustable to Full Circle. With Drain Check Valve.	17

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Netafim LVCZS8010075-HF 1" Pre-Assembled Control Zone Kit, with 1" Series 80 Control Valve, 3/4" Disc Filter, and High Flow Pressure Regulator 4.5GPM to 17.6GPM.	1
	Pipe Transition Point in Drip Box Pipe transition point from PVC lateral to drip tubing with riser in 6" (150mm) drip box.	1
	Area to Receive Dripline Netafim TLDL-9-18 (18) (2) Techline Pressure Compensating Landscape Dripline. 0.9GPH emitters at 18.0" O.C. Dripline laterals spaced at 18.0" apart, with emitters offset for triangular pattern. Surface and Sub Surface Installations. UV Resistant.	286.5 s.f.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter ICV-G-DC 1-1/2" 1", 1-1/2", 2", and 3" Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use. With DC Latching Solenoid Factory Installed Option.	2
	Hunter ICV-G-DC 2" 1", 1-1/2", 2", and 3" Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use. With DC Latching Solenoid Factory Installed Option.	5
	Nibco T-113-K Class 125 bronze gate shut off valve with cross handle, same size as mainline pipe diameter at valve location. Size Range - 1/4" - 3"	1
	Hunter ICV-G 2" 1", 1-1/2", 2", and 3" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	1
	Febco 850 2" Double Check Backflow prevention, 1/2" to 2"	1
	Hunter IC-1200-PED Modular Controller, 12 stations, Outdoor Model, Metal Pedestal. Commercial Use. With one ICM-600 module included.	1
	Hunter Solar-Sync Solar, rain freeze sensor with outdoor interface, connects to Hunter PCC, Pro-C, and I-Core Controllers, install as noted. Includes 10 year lithium battery and rubber module cover, and gutter mount bracket. Wired.	1
	Hunter HFS-200 Flow Sensor for use with ACC controller, 2" Schedule 40 Sensor Body, 24 VAC, 2 amp.	1
	Y-STRAINER MANUFACTURER: ZURN MODEL: SXL SIZE: 2"	1
	Water Meter 2"	1



	Irrigation Lateral Line: PVC Class 200 SDR 21 1"	3,122 l.f.
	Irrigation Lateral Line: PVC Class 200 SDR 21 1 1/4"	143.5 l.f.
	Irrigation Lateral Line: PVC Class 200 SDR 21 1 1/2"	19.7 l.f.
	Irrigation Lateral Line: PVC Class 200 SDR 21 2"	24.0 l.f.
	Irrigation Mainline: PVC Class 200 SDR 21 2"	1, 257 l.f.
	Pipe Sleeve: Dual 4" PVC Schedule 40	129.1 l.f.

**EXECUTIVE DIRECTOR APPROVAL**

8-22-18  
Date By

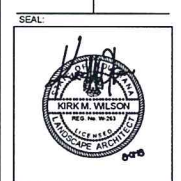
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**BROOKS ROAD EXPANSION**  
ENABLE MIDSTREAM PARTNERS  
7207 BROOKS RD  
SHREVEPORT, LA 71129



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NO.	DESCRIPTION	DATE



3  
MPC EXECUTIVE DIRECTOR  
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


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IRRIGATION PLAN

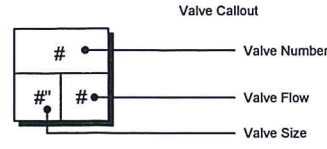
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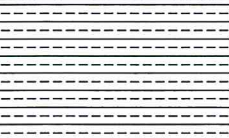












**IRRIGATION SCHEDULE**

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	SPR - Hunter PROS-04-PRS30-CV 10' radius Turf Spray, 30 psi regulated 4.0" Pop-Up. With factory installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material.	33
	BLR - Hunter PROS-06-CV-PCN Flood Bubbler, on fixed riser, 6.0" pop-up, Drain Check Valve	11

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	RTR - Hunter PGP-04-CV (ULTRA) Turf Rotor, 4.0" Pop-Up. Adjustable to Full Circle. With Drain Check Valve.	10
	RTR - Hunter PGP-04-CV (ULTRA) Turf Rotor, 4.0" Pop-Up. Adjustable to Full Circle. With Drain Check Valve.	40
	RTR - Hunter PGP-04-CV (ULTRA) Turf Rotor, 4.0" Pop-Up. Adjustable to Full Circle. With Drain Check Valve.	17



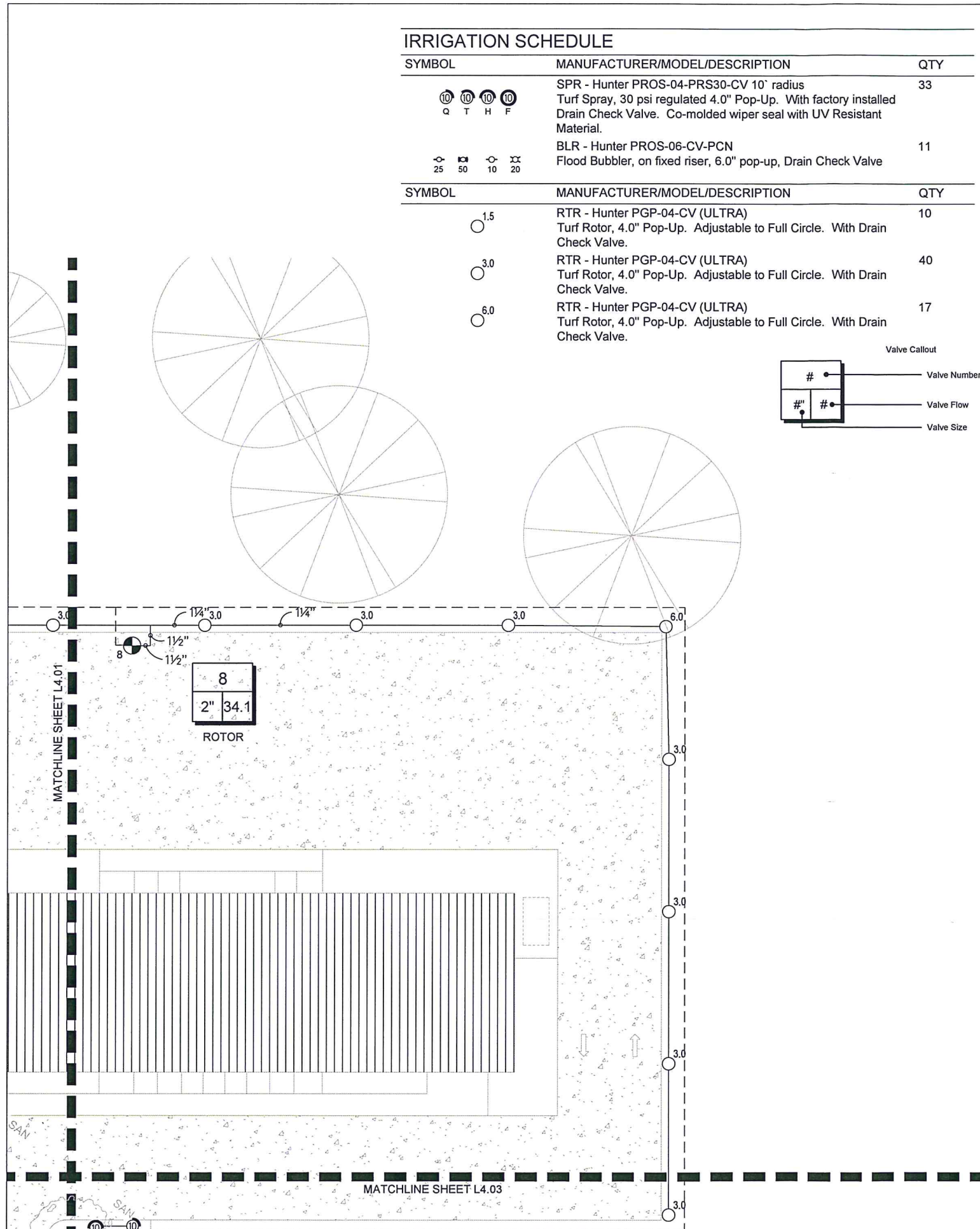
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Netafim LVCZS8010075-HF 1" Pre-Assembled Control Zone Kit, with 1" Series 80 Control Valve, 3/4" Disc Filter, and High Flow Pressure Regulator 4.5GPM to 17.6GPM.	1
	Pipe Transition Point in Drip Box Pipe transition point from PVC lateral to drip tubing with riser in 6" (150mm) drip box.	1
	Area to Receive Dripline Netafim TLDL-9-18 (18) (2) Techline Pressure Compensating Landscape Dripline. 0.9GPH emitters at 18.0" O.C. Dripline laterals spaced at 18.0" apart, with emitters offset for triangular pattern. Surface and Sub Surface Installations. UV Resistant.	286.5 s.f.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter ICV-G-DC 1-1/2" 1", 1-1/2", 2", and 3" Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use. With DC Latching Solenoid Factory Installed Option.	2
	Hunter ICV-G-DC 2" 1", 1-1/2", 2", and 3" Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use. With DC Latching Solenoid Factory Installed Option.	5
	Nibco T-113-K Class 125 bronze gate shut off valve with cross handle, same size as mainline pipe diameter at valve location. Size Range - 1/4" - 3"	1
	Hunter ICV-G 2" 1", 1-1/2", 2", and 3" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	1
	Febco 850 2" Double Check Backflow prevention, 1/2" to 2"	1
	Hunter IC-1200-PED Modular Controller, 12 stations, Outdoor Model, Metal Pedestal. Commercial Use. With one ICM-600 module included.	1
	Hunter Solar-Sync Solar, rain freeze sensor with outdoor interface, connects to Hunter PCC, Pro-C, and I-Core Controllers, install as noted. Includes 10 year lithium battery and rubber module cover, and gutter mount bracket. Wired.	1
	Hunter HFS-200 Flow Sensor for use with ACC controller, 2" Schedule 40 Sensor Body, 24 VAC, 2 amp.	1
	Y-STRAINER MANUFACTURER: ZURN MODEL: SXL SIZE: 2"	1
	Water Meter 2"	1

	Irrigation Lateral Line: PVC Class 200 SDR 21 1"	3,122 l.f.
	Irrigation Lateral Line: PVC Class 200 SDR 21 1 1/4"	143.5 l.f.
	Irrigation Lateral Line: PVC Class 200 SDR 21 1 1/2"	19.7 l.f.
	Irrigation Lateral Line: PVC Class 200 SDR 21 2"	24.0 l.f.
	Irrigation Mainline: PVC Class 200 SDR 21 2"	1,257 l.f.
	Pipe Sleeve: Dual 4" PVC Schedule 40	129.1 l.f.

**EXECUTIVE  
DIRECTOR  
APPROVAL**

8-22-18  
Date By



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**BROOKS ROAD EXPANSION**  
ENABLE MIDSTREAM PARTNERS  
7207 BROOKS RD  
SHREVEPORT, LA 71129



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NO.	DESCRIPTION	DATE

X  
MPC EXECUTIVE DIRECTOR  
SIGNATURE DATE

ISSUE DATE: 08/01/2018  
PROJECT NUMBER: 201723  
IRRIGATION PLAN

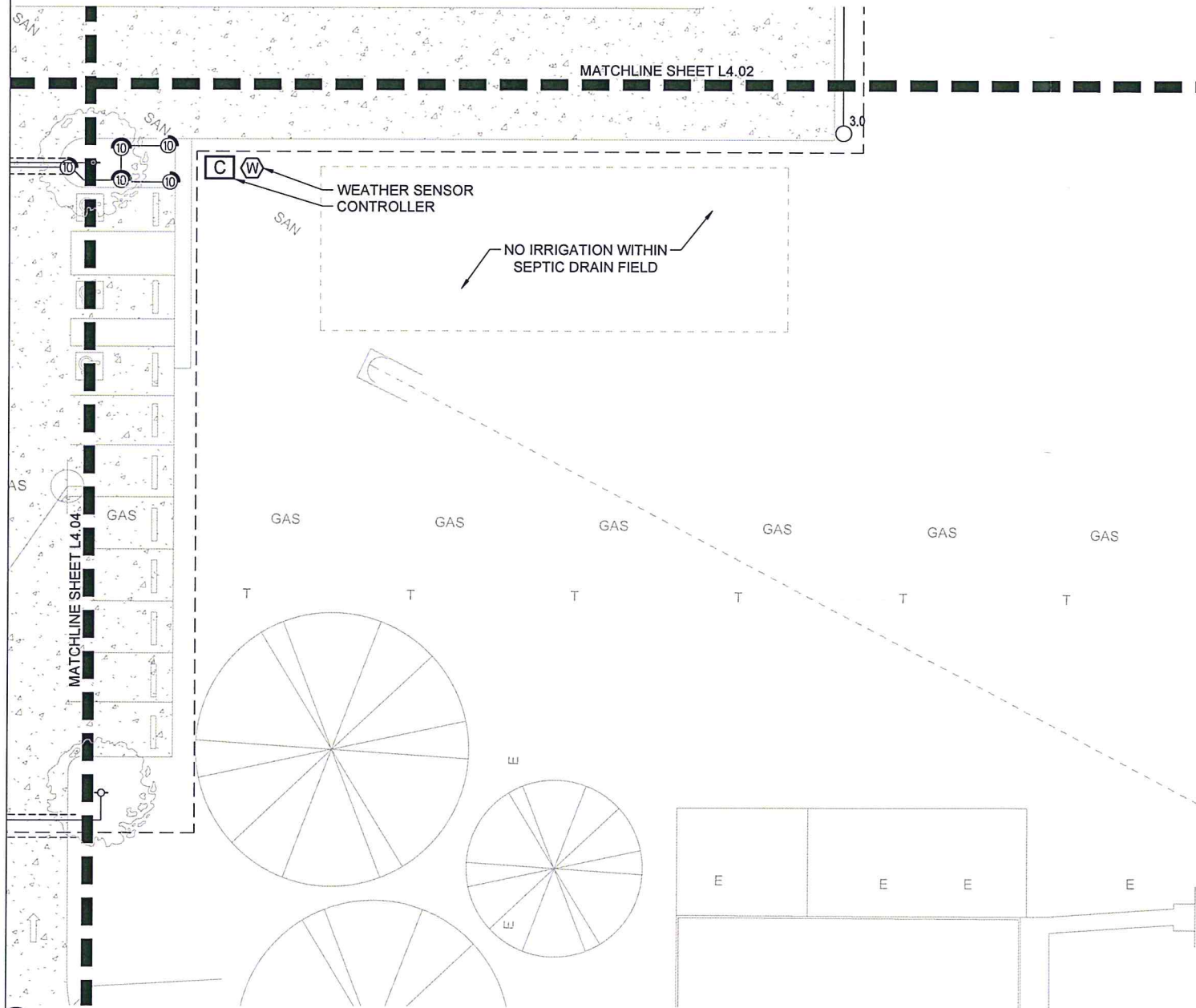
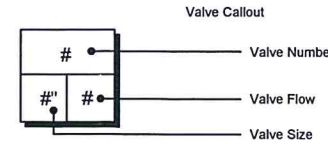
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**L4.02**



**IRRIGATION SCHEDULE**

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	SPR - Hunter PROS-04-PRS30-CV 10' radius Turf Spray, 30 psi regulated 4.0" Pop-Up. With factory installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material.	33
	BLR - Hunter PROS-06-CV-PCN Flood Bubbler, on fixed riser, 6.0" pop-up, Drain Check Valve	11

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	RTR - Hunter PGP-04-CV (ULTRA) Turf Rotor, 4.0" Pop-Up. Adjustable to Full Circle. With Drain Check Valve.	10
	RTR - Hunter PGP-04-CV (ULTRA) Turf Rotor, 4.0" Pop-Up. Adjustable to Full Circle. With Drain Check Valve.	40
	RTR - Hunter PGP-04-CV (ULTRA) Turf Rotor, 4.0" Pop-Up. Adjustable to Full Circle. With Drain Check Valve.	17



SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Netafim LVCZS8010075-HF 1" Pre-Assembled Control Zone Kit, with 1" Series 80 Control Valve, 3/4" Disc Filter, and High Flow Pressure Regulator 4.5GPM to 17.6GPM.	1
	Pipe Transition Point in Drip Box Pipe transition point from PVC lateral to drip tubing with riser in 6" (150mm) drip box.	1
	Area to Receive Dripline Netafim TLDL-9-18 (18) (2) Techline Pressure Compensating Landscape Dripline. 0.9GPH emitters at 18.0" O.C. Dripline laterals spaced at 18.0" apart, with emitters offset for triangular pattern. Surface and Sub Surface Installations. UV Resistant.	286.5 s.f.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter ICV-G-DC 1-1/2" 1", 1-1/2", 2", and 3" Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use. With DC Latching Solenoid Factory Installed Option.	2
	Hunter ICV-G-DC 2" 1", 1-1/2", 2", and 3" Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use. With DC Latching Solenoid Factory Installed Option.	5
	Nibco T-113-K Class 125 bronze gate shut off valve with cross handle, same size as mainline pipe diameter at valve location. Size Range - 1/4" - 3"	1
	Hunter ICV-G 2" 1", 1-1/2", 2", and 3" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	1
	Febco 850 2" Double Check Backflow prevention, 1/2" to 2"	1
	Hunter IC-1200-PED Modular Controller, 12 stations, Outdoor Model, Metal Pedestal. Commercial Use. With one ICM-600 module included.	1
	Hunter Solar-Sync Solar, rain freeze sensor with outdoor interface, connects to Hunter PCC, Pro-C, and I-Core Controllers, install as noted. Includes 10 year lithium battery and rubber module cover, and gutter mount bracket. Wired.	1
	Hunter HFS-200 Flow Sensor for use with ACC controller, 2" Schedule 40 Sensor Body, 24 VAC, 2 amp.	1
	Y-STRAINER MANUFACTURER: ZURN MODEL: SXL SIZE: 2"	1
	Water Meter 2"	1

	Irrigation Lateral Line: PVC Class 200 SDR 21 1"	3,122 l.f.
	Irrigation Lateral Line: PVC Class 200 SDR 21 1 1/4"	143.5 l.f.
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	Irrigation Lateral Line: PVC Class 200 SDR 21 2"	24.0 l.f.
	Irrigation Mainline: PVC Class 200 SDR 21 2"	1, 257 l.f.
	Pipe Sleeve: Dual 4" PVC Schedule 40	129.1 l.f.

**EXECUTIVE DIRECTOR APPROVAL**

8-22-18  
Date By

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**BROOKS ROAD EXPANSION**  
ENABLE MIDSTREAM PARTNERS  
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SHREVEPORT, LA 71129



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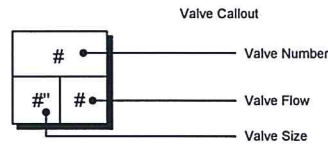
NO.	REVISIONS	DATE

J. MPC EXECUTIVE DIRECTOR  
SIGNATURE DATE

ISSUE DATE: 08/01/2018  
PROJECT NUMBER: 201723  
IRRIGATION PLAN

SHEET NUMBER  
**L4.03**





### IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	SPR - Hunter PROS-04-PRS30-CV 10' radius Turf Spray, 30 psi regulated 4.0" Pop-Up. With factory installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material.	33
	BLR - Hunter PROS-06-CV-PCN Flood Bubbler, on fixed riser, 6.0" pop-up, Drain Check Valve	11
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	RTR - Hunter PGP-04-CV (ULTRA) Turf Rotor, 4.0" Pop-Up. Adjustable to Full Circle. With Drain Check Valve.	10
	RTR - Hunter PGP-04-CV (ULTRA) Turf Rotor, 4.0" Pop-Up. Adjustable to Full Circle. With Drain Check Valve.	40
	RTR - Hunter PGP-04-CV (ULTRA) Turf Rotor, 4.0" Pop-Up. Adjustable to Full Circle. With Drain Check Valve.	17

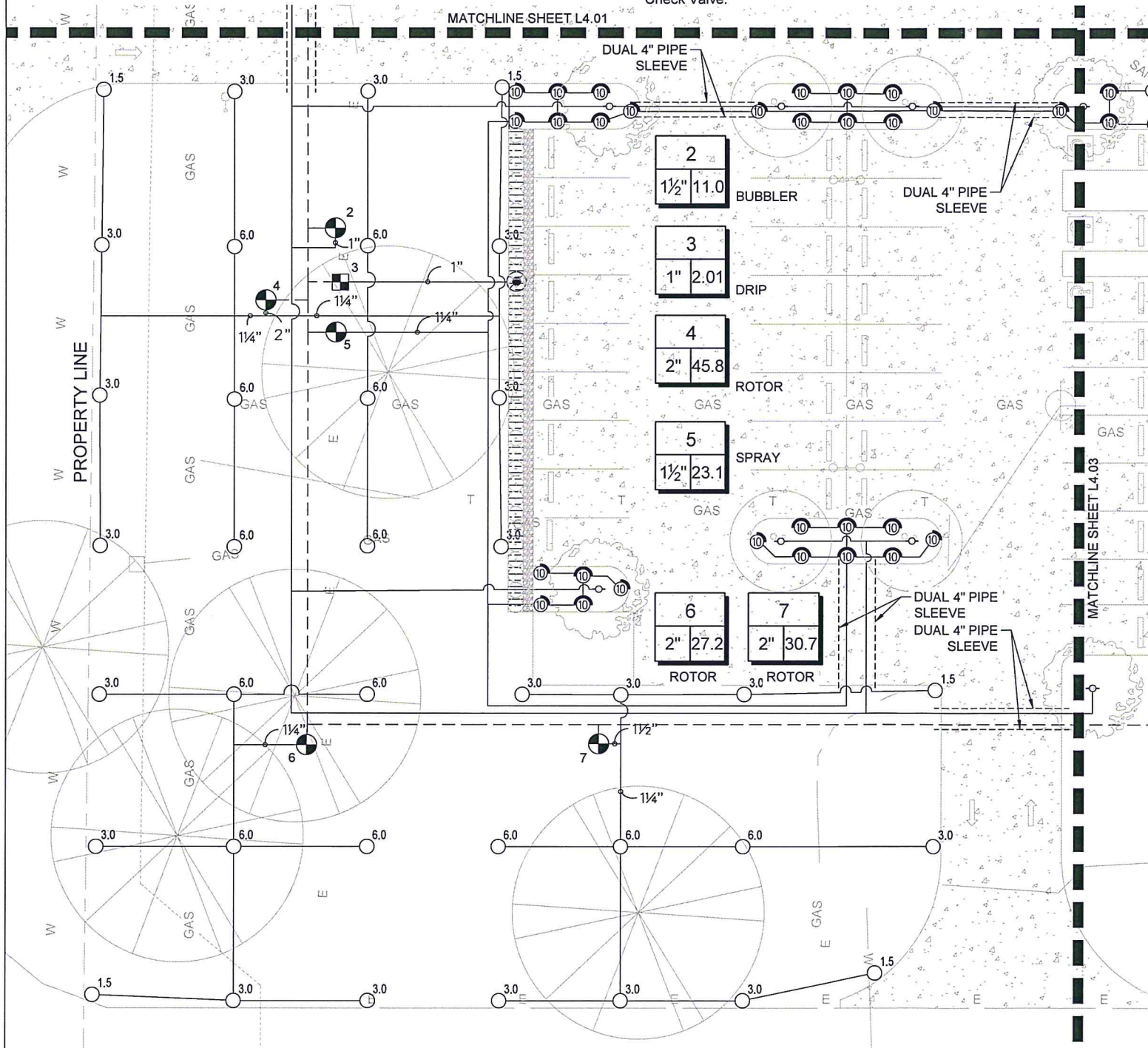
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Netafim LVCZS8010075-HF 1" Pre-Assembled Control Zone Kit, with 1" Series 80 Control Valve, 3/4" Disc Filter, and High Flow Pressure Regulator 4.5GPM to 17.6GPM.	1
	Pipe Transition Point in Drip Box Pipe transition point from PVC lateral to drip tubing with riser in 6" (150mm) drip box.	1
	Area to Receive Dripline Netafim TLDL-9-18 (18) (2) Techline Pressure Compensating Landscape Dripline. 0.9GPH emitters at 18.0" O.C. Dripline laterals spaced at 18.0" apart, with emitters offset for triangular pattern. Surface and Sub Surface Installations. UV Resistant.	286.5 s.f.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter ICV-G-DC 1-1/2" 1", 1-1/2", 2", and 3" Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use. With DC Latching Solenoid Factory Installed Option.	2
	Hunter ICV-G-DC 2" 1", 1-1/2", 2", and 3" Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use. With DC Latching Solenoid Factory Installed Option.	5
	Nibco T-113-K Class 125 bronze gate shut off valve with cross handle, same size as mainline pipe diameter at valve location. Size Range - 1/4" - 3"	1
	Hunter ICV-G 2" 1", 1-1/2", 2", and 3" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	1
	Febco 850 2" Double Check Backflow prevention, 1/2" to 2"	1
	Hunter IC-1200-PED Modular Controller, 12 stations, Outdoor Model, Metal Pedestal. Commercial Use. With one ICM-600 module included.	1
	Hunter Solar-Sync Solar, rain freeze sensor with outdoor interface, connects to Hunter PCC, Pro-C, and I-Core Controllers, install as noted. Includes 10 year lithium battery and rubber module cover, and gutter mount bracket. Wired.	1
	Hunter HFS-200 Flow Sensor for use with ACC controller, 2" Schedule 40 Sensor Body, 24 VAC, 2 amp.	1
	Y-STRAINER MANUFACTURER: ZURN MODEL: SXL SIZE: 2"	1
	Water Meter 2"	1

	Irrigation Lateral Line: PVC Class 200 SDR 21 1"	3,122 l.f.
	Irrigation Lateral Line: PVC Class 200 SDR 21 1 1/4"	143.5 l.f.
	Irrigation Lateral Line: PVC Class 200 SDR 21 1 1/2"	19.7 l.f.
	Irrigation Lateral Line: PVC Class 200 SDR 21 2"	24.0 l.f.
	Irrigation Mainline: PVC Class 200 SDR 21 2"	1,257 l.f.
	Pipe Sleeve: Dual 4" PVC Schedule 40	129.1 l.f.

**EXECUTIVE  
DIRECTOR  
APPROVAL**

8.22.18  
Date By



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**BROOKS ROAD EXPANSION**  
ENABLE MIDSTREAM PARTNERS  
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SHREVEPORT, LA 71129



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NO.	DESCRIPTION	DATE

X  
MPC EXECUTIVE DIRECTOR  
SIGNATURE: DATE

ISSUE DATE: 06/01/2018  
PROJECT NUMBER: 201723

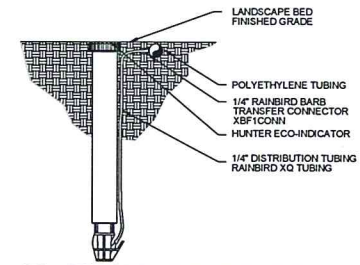
IRRIGATION PLAN

SHEET NUMBER

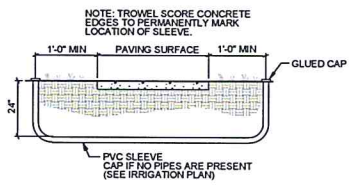
**L4.04**



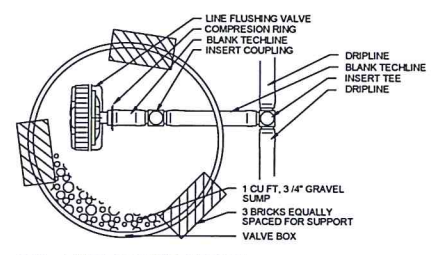
**BROOKS ROAD EXPANSION**  
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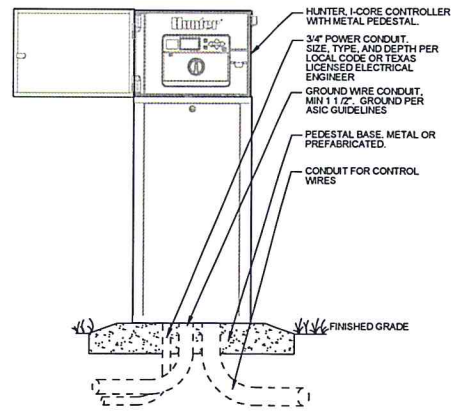
11 DRIP OPERATION INDICATOR  
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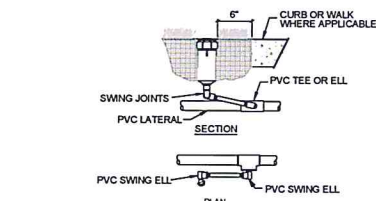
10 IRRIGATION SLEEVE DETAIL  
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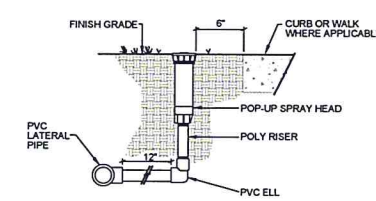
9 LINE FLUSHING VALVE  
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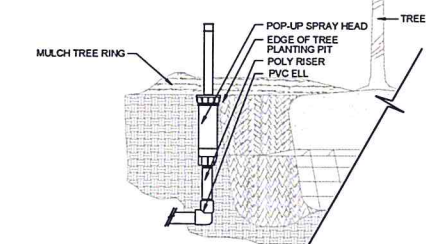
13 HUNTER I-CORE IRRIGATION CONTROLLER  
 NTS



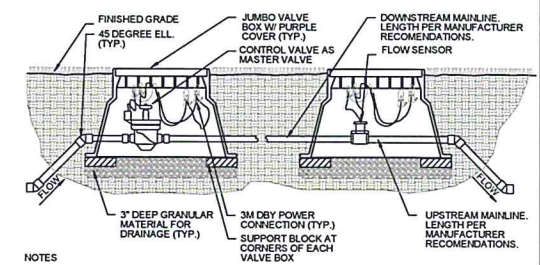
8 IRRIGATION FIXTURE- ROTOR HEAD  
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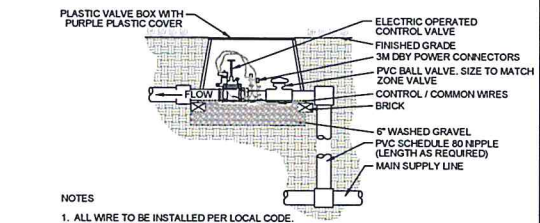
7 IRRIGATION FIXTURE- POP UP  
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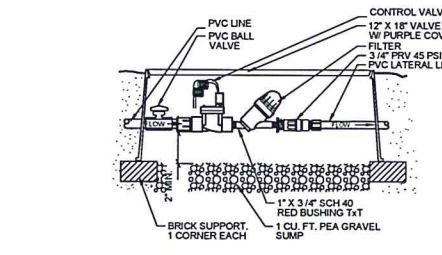
6 IRRIGATION FIXTURE- TREE BUBBLER  
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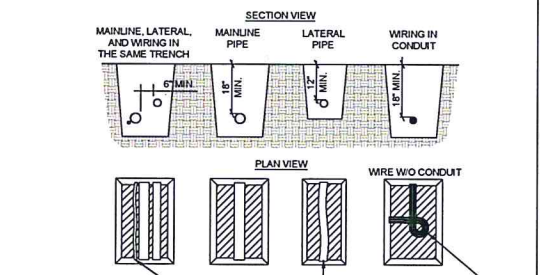
5 MASTER VALVE AND FLOW METER DETAIL  
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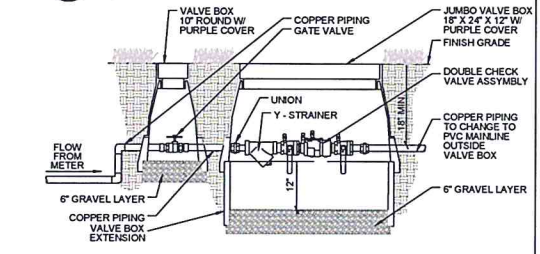
4 CONTROL VALVE DETAIL  
 1" = 1'-0"



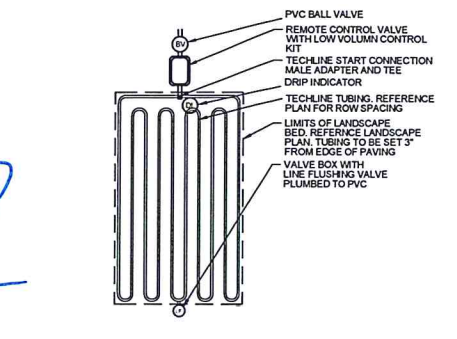
3 VOLUME CONTROL VALVE  
 1" = 1'-0"



2 TRENCHING DETAIL  
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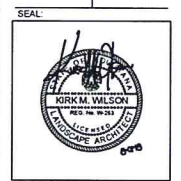


1 DOUBLE CHECK VALVE  
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12 DRIP IRRIGATION- LANDSCAPE BED  
 NTS

**EXECUTIVE DIRECTOR APPROVAL**  
 Date: 8.22-18  
 By: [Signature]



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NO	DESCRIPTION	DATE

100% P.C.  
 M.P.C. EXECUTIVE DIRECTOR SIGNATURE DATE

ISSUE DATE: 05/01/2018  
 PROJECT NUMBER: 201723

IRRIGATION DETAILS  
 SHEET NUMBER