

010da0041+ile, dan

PWD:CS\$
011da0141indx.dgn

INDEX OF SHEETS

REV	DATE	SHEET	DESCRIPTION
2	11/26/2013	DA0041	TITLE SHEET DRAINAGE AREA 1 & AREA 2
35	10/23/2015	* DA0141	INDEX OF SHEETS DRAINAGE AREA 1 & AREA 2
34	10/23/2015	* DA0142	INDEX OF SHEETS DRAINAGE AREA 1 & AREA 2
27	06/03/2015	DA0143	INDEX OF SHEETS DRAINAGE AREA 1 & AREA 2
DRAINAGE AREA (SYLVAN TO BECKLEY)			
2	2/24/2014	DA1101	DRAINAGE AREA MAP 30MLCL
4	10/23/2015	* DA1102	DRAINAGE AREA MAP 30MLCL
3	7/31/2015	DA1103	DRAINAGE AREA MAP 30MLCL
1	10/11/2013	DA1104	DRAINAGE AREA MAP 30MLCL
2	6/27/2014	DA1105	DRAINAGE AREA MAP 30MLCL
0	10/11/2013	DA1106	DRAINAGE AREA MAP 30MLCL
1	10/11/2013	DA1301	DRAINAGE HYDRAULIC DATA AREA REPORT
1	10/11/2013	DA1302	DRAINAGE HYDRAULIC DATA AREA REPORT
2	6/27/2014	DA1303	DRAINAGE HYDRAULIC DATA AREA REPORT
2	6/27/2014	DA1304	DRAINAGE HYDRAULIC DATA AREA REPORT
2	7/31/2015	DA1305	DRAINAGE HYDRAULIC DATA AREA REPORT
0	10/11/2013	DA1306	DRAINAGE HYDRAULIC DATA AREA REPORT
2	5/16/2014	DA1307	DRAINAGE HYDRAULIC DATA AREA REPORT
3	10/23/2015	* DA1308	DRAINAGE HYDRAULIC DATA AREA REPORT
	VOID	DA1309	DRAINAGE HYDRAULIC DATA AREA REPORT
0	10/11/2013	DA1310	DRAINAGE HYDRAULIC DATA AREA REPORT
0	10/11/2013	DA1311	DRAINAGE HYDRAULIC DATA AREA REPORT
0	10/11/2013	DA1312	DRAINAGE HYDRAULIC DATA AREA REPORT
0	10/11/2013	DA1313	DRAINAGE HYDRAULIC DATA AREA REPORT
2	5/16/2014	DA1401	DRAINAGE HYDRAULIC DATA INLET CONFIGURATION
3	2/24/2014	DA1402	DRAINAGE HYDRAULIC DATA INLET CONFIGURATION
4	6/27/2014	DA1403	DRAINAGE HYDRAULIC DATA INLET CONFIGURATION
3	7/31/2015	DA1404	DRAINAGE HYDRAULIC DATA INLET CONFIGURATION
2	5/16/2014	DA1405	DRAINAGE HYDRAULIC DATA INLET CONFIGURATION
3	10/23/2015	* DA1406	DRAINAGE HYDRAULIC DATA INLET CONFIGURATION
0	10/11/2013	DA1407	DRAINAGE HYDRAULIC DATA INLET CONFIGURATION
0	10/11/2013	DA1408	DRAINAGE HYDRAULIC DATA INLET CONFIGURATION
0	10/11/2013	DA1409	DRAINAGE HYDRAULIC DATA INLET CONFIGURATION
0	10/11/2013	DA1410	DRAINAGE HYDRAULIC DATA INLET CONFIGURATION
1	10/11/2013	DA1501	DRAINAGE HYDRAULIC DATA INLET HYDRAULICS
3	2/24/2014	DA1502	DRAINAGE HYDRAULIC DATA INLET HYDRAULICS
3	6/27/2014	DA1503	DRAINAGE HYDRAULIC DATA INLET HYDRAULICS
2	7/31/2015	DA1504	DRAINAGE HYDRAULIC DATA INLET HYDRAULICS
2	5/16/2014	DA1505	DRAINAGE HYDRAULIC DATA INLET HYDRAULICS
3	10/23/2015	* DA1506	DRAINAGE HYDRAULIC DATA INLET HYDRAULICS
0	10/11/2013	DA1507	DRAINAGE HYDRAULIC DATA INLET HYDRAULICS
0	10/11/2013	DA1508	DRAINAGE HYDRAULIC DATA INLET HYDRAULICS
0	10/11/2013	DA1509	DRAINAGE HYDRAULIC DATA INLET HYDRAULICS
0	10/11/2013	DA1510	DRAINAGE HYDRAULIC DATA INLET HYDRAULICS
2	2/24/2014	DA1601	DRAINAGE HYDRAULIC DATA LINK CONFIGURATION
3	2/24/2014	DA1602	DRAINAGE HYDRAULIC DATA LINK CONFIGURATION
3	6/27/2014	DA1603	DRAINAGE HYDRAULIC DATA LINK CONFIGURATION
2	7/31/2015	DA1604	DRAINAGE HYDRAULIC DATA LINK CONFIGURATION
1	2/24/2014	DA1605	DRAINAGE HYDRAULIC DATA LINK CONFIGURATION
3	10/23/2015	* DA1606	DRAINAGE HYDRAULIC DATA LINK CONFIGURATION
0	10/11/2013	DA1607	DRAINAGE HYDRAULIC DATA LINK CONFIGURATION
0	10/11/2013	DA1608	DRAINAGE HYDRAULIC DATA LINK CONFIGURATION
0	10/11/2013	DA1609	DRAINAGE HYDRAULIC DATA LINK CONFIGURATION
0	10/11/2013	DA1610	DRAINAGE HYDRAULIC DATA LINK CONFIGURATION
2	2/24/2014	DA1701	DRAINAGE HYDRAULIC DATA LINK HYDRAULICS
3	2/24/2014	DA1702	DRAINAGE HYDRAULIC DATA LINK HYDRAULICS
3	6/27/2014	DA1703	DRAINAGE HYDRAULIC DATA LINK HYDRAULICS
2	7/31/2015	DA1704	DRAINAGE HYDRAULIC DATA LINK HYDRAULICS
1	2/24/2014	DA1705	DRAINAGE HYDRAULIC DATA LINK HYDRAULICS
3	10/23/2015	* DA1706	DRAINAGE HYDRAULIC DATA LINK HYDRAULICS
0	10/11/2013	DA1707	DRAINAGE HYDRAULIC DATA LINK HYDRAULICS
0	10/11/2013	DA1708	DRAINAGE HYDRAULIC DATA LINK HYDRAULICS
0	10/11/2013	DA1709	DRAINAGE HYDRAULIC DATA LINK HYDRAULICS
0	10/11/2013	DA1710	DRAINAGE HYDRAULIC DATA LINK HYDRAULICS
0	6/27/2014	DA1801	DRAINAGE HYDRAULIC DATA CULVERT BR44 - CROSS SECTIONS
0	6/27/2014	DA1802	DRAINAGE HYDRAULIC DATA CULVERT BR44
0	6/27/2014	DA1803	DRAINAGE HYDRAULIC DATA BC5
DRAINAGE AREA (WEST OF MIXMASTER)			
2	5/16/2014	DA2101	DRAINAGE AREA MAP 30EBML
2	6/27/2014	DA2102	DRAINAGE AREA MAP 30EBML
1	07/15/2014	DA2103	DRAINAGE AREA MAP 30EBML

INDEX OF SHEETS

REV	DATE	SHEET	DESCRIPTION
DRAINAGE AREA (WEST OF MIXMASTER)			
1	5/16/2014	DA2104	DRAINAGE AREA MAP 35NBML
1	5/16/2014	DA2301	DRAINAGE HYDRAULIC DATA AREA REPORT
1	5/16/2014	DA2302	DRAINAGE HYDRAULIC DATA AREA REPORT
2	5/16/2014	DA2303	DRAINAGE HYDRAULIC DATA AREA REPORT
0	10/11/2013	DA2304	DRAINAGE HYDRAULIC DATA AREA REPORT
1	1/3/2014	DA2305	DRAINAGE HYDRAULIC DATA AREA REPORT
4	2/13/2015	DA2401	DRAINAGE HYDRAULIC DATA INLET CONFIGURATION
2	5/16/2014	DA2402	DRAINAGE HYDRAULIC DATA INLET CONFIGURATION
0	10/11/2013	DA2403	DRAINAGE HYDRAULIC DATA INLET CONFIGURATION
1	1/3/2014	DA2404	DRAINAGE HYDRAULIC DATA INLET HYDRAULICS
3	2/13/2015	DA2501	DRAINAGE HYDRAULIC DATA INLET HYDRAULICS
3	2/13/2015	DA2502	DRAINAGE HYDRAULIC DATA INLET HYDRAULICS
2	5/16/2014	DA2503	DRAINAGE HYDRAULIC DATA INLET HYDRAULICS
0	10/11/2013	DA2504	DRAINAGE HYDRAULIC DATA INLET HYDRAULICS
1	1/3/2014	DA2505	DRAINAGE HYDRAULIC DATA LINK CONFIGURATION
4	2/13/2015	DA2601	DRAINAGE HYDRAULIC DATA LINK CONFIGURATION
3	8/20/2014	DA2602	DRAINAGE HYDRAULIC DATA LINK CONFIGURATION
2	5/16/2014	DA2603	DRAINAGE HYDRAULIC DATA LINK CONFIGURATION
0	10/11/2013	DA2604	DRAINAGE HYDRAULIC DATA LINK CONFIGURATION
1	1/3/2014	DA2605	DRAINAGE HYDRAULIC DATA LINK CONFIGURATION
4	2/13/2015	DA2701	DRAINAGE HYDRAULIC DATA LINK HYDRAULICS
3	8/20/2014	DA2702	DRAINAGE HYDRAULIC DATA LINK HYDRAULICS
4	2/13/2015	DA2703	DRAINAGE HYDRAULIC DATA LINK HYDRAULICS
3	8/20/2014	DA2704	DRAINAGE HYDRAULIC DATA LINK HYDRAULICS
2	5/16/2014	DA2705	DRAINAGE HYDRAULIC DATA LINK HYDRAULICS
0	10/11/2013	DA2706	DRAINAGE HYDRAULIC DATA LINK HYDRAULICS
1	1/3/2014	DA2707	DRAINAGE HYDRAULIC DATA LINK HYDRAULICS
DRAINAGE AREA (IH35E NORTH)			
4	6/3/2015	DA3101	DRAINAGE AREA MAP 35NBML
4	7/31/2015	DA3102	DRAINAGE AREA MAP 35NBML
0	6/3/2015	DA3102A	DRAINAGE AREA MAP 35NBML
0	11/8/2013	DA3301	DRAINAGE HYDRAULIC DATA AREA REPORT
1	2/13/2015	DA3302	DRAINAGE HYDRAULIC DATA AREA REPORT
	VOID	DA3303	DRAINAGE HYDRAULIC DATA AREA REPORT
3	7/31/2015	DA3304	DRAINAGE HYDRAULIC DATA AREA REPORT
0	11/8/2013	DA3401	DRAINAGE HYDRAULIC DATA INLET CONFIGURATION
2	2/13/2015	DA3402	DRAINAGE HYDRAULIC DATA INLET CONFIGURATION
	VOID	DA3403	DRAINAGE HYDRAULIC DATA INLET CONFIGURATION
1	5/16/2014	DA3404	DRAINAGE HYDRAULIC DATA INLET CONFIGURATION
3	7/31/2015	DA3405	DRAINAGE HYDRAULIC DATA INLET CONFIGURATION
0	11/8/2013	DA3501	DRAINAGE HYDRAULIC DATA INLET HYDRAULICS
1	2/13/2015	DA3502	DRAINAGE HYDRAULIC DATA INLET HYDRAULICS
	VOID	DA3503	DRAINAGE HYDRAULIC DATA INLET HYDRAULICS
1	5/16/2014	DA3504	DRAINAGE HYDRAULIC DATA INLET HYDRAULICS
3	7/31/2015	DA3505	DRAINAGE HYDRAULIC DATA INLET HYDRAULICS
1	1/3/2014	DA3601	DRAINAGE HYDRAULIC DATA LINK CONFIGURATION
2	2/13/2015	DA3602	DRAINAGE HYDRAULIC DATA LINK CONFIGURATION
	VOID	DA3603	DRAINAGE HYDRAULIC DATA LINK CONFIGURATION
2	3/20/2015	DA3604	DRAINAGE HYDRAULIC DATA LINK CONFIGURATION
2	3/20/2015	DA3605	DRAINAGE HYDRAULIC DATA LINK CONFIGURATION
0	6/3/2015	DA3606	DRAINAGE HYDRAULIC DATA LINK CONFIGURATION
1	1/3/2014	DA3701	DRAINAGE HYDRAULIC DATA LINK HYDRAULICS
1	2/13/2015	DA3702	DRAINAGE HYDRAULIC DATA LINK HYDRAULICS
	VOID	DA3703	DRAINAGE HYDRAULIC DATA LINK HYDRAULICS
2	3/20/2015	DA3704	DRAINAGE HYDRAULIC DATA LINK HYDRAULICS
2	3/20/2015	DA3705	DRAINAGE HYDRAULIC DATA LINK HYDRAULICS
0	6/3/2015	DA3706	DRAINAGE HYDRAULIC DATA LINK HYDRAULICS
DRAINAGE AREA (COLORADO TO LOUISIANA)			
0	10/10/2013	DA4101	DRAINAGE AREA MAP (35NBML) BEGIN TO STA 4998+00
2	3/4/2014	DA4102	DRAINAGE AREA MAP (35NBML) STA 4998+00 TO STA 5009+00
4	4/23/2014	DA4103	DRAINAGE AREA MAP (35NBML) STA 5009+00 TO STA 5021+00
2	12/20/2013	DA4104	DRAINAGE AREA MAP (35NBML) STA 5021+00 TO STA 5031+00
0	10/10/2013	DA4105	DRAINAGE AREA MAP (35NBML) STA 5031+00 TO STA 5042+00
5	4/23/2014	DA4301	DRAINAGE HYDRAULIC DATA AREA REPORT
4	3/4/2014	DA4401	DRAINAGE HYDRAULIC DATA INLET CONFIGURATION
6	7/24/2014	DA4402	DRAINAGE HYDRAULIC DATA INLET CONFIGURATION
1	8/25/2014	DA4403	DRAINAGE HYDRAULIC DATA INLET CONFIGURATION
4	3/4/2014	DA4501	DRAINAGE HYDRAULIC DATA INLET HYDRAULICS
4	7/24/2014	DA4502	DRAINAGE HYDRAULIC DATA INLET HYDRAULICS
1	8/25/2014	DA4503	DRAINAGE HYDRAULIC DATA INLET HYDRAULICS
5	5/7/2014	DA4601	DRAINAGE HYDRAULIC DATA LINK CONFIGURATION
6	4/8/2015	DA4602	DRAINAGE HYDRAULIC DATA LINK CONFIGURATION
1	8/25/2014	DA4603	DRAINAGE HYDRAULIC DATA LINK CONFIGURATION

* INDICATES REVISED SHEET

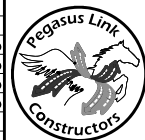
RELEASED FOR CONSTRUCTION

By Alyssa Moss at 4:21 pm, Nov 04, 2015

Pegasus Link Constructors



ISSUE RECORD		
NO.	DESCRIPTION	DATE
32	NDC 00172	04/08/2015
33	NDC 00175	06/03/2015
34	NDC 00178	07/31/2015
35	NDC 00185	10/23/2015



Pegasus Link Constructors,LLC

PARSONS
BRINCKERHOFF
Parsons Brinckerhoff, Inc.
2777 N. Stemmons Freeway, Ste. 1600
Dallas, Texas 75207
TBPE F-2263

HORSESHOE PROJECT
INDEX OF SHEETS
DRAINAGE AREA 1 & AREA 2

FILE NAME: 011DA0141INDX
CONTROL: ECP0DR6998
DESIGN PACKAGE: RFC
SHEET: 1 OF 03

DESIGNED SV	FED. RD. DIST. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
DRAWN BZ	6	(SEE TITLE SHEET)	IH 30
CHECKED SP	STATE	DISTRICT	COUNTY
APPROVED SV	TEXAS	DAL	DALLAS
	CONTROL	SECTION	JOB
	1068	04	116

DA0141

11/4/2015 8:13:28 PM
\\p\dwcs\p\dwcs\w\K\60852\60978_2\011da0141indx.dgn

PWD:CS\$
011da0142indx.dgn

INDEX OF SHEETS

REV	DATE	SHEET	DESCRIPTION
4	4/3/2014	DA4701	DRAINAGE AREA (COLORADO TO LOUISIANA)
5	4/08/2015	DA4702	DRAINAGE HYDRAULIC DATA LINK HYDRAULICS
3	4/08/2015	DA4703	DRAINAGE HYDRAULIC DATA LINK HYDRAULICS
0	10/10/2013	DA5101	DRAINAGE AREA (MIXMASTER)
0	10/10/2013	DA5102	DRAINAGE AREA MAP (35SBML) STA 5041+00 TO STA 5051+00
0	10/10/2013	DA5103	DRAINAGE AREA MAP (35SBML) STA 5051+00 TO STA 5064+00
0	10/10/2013	DA5103	DRAINAGE AREA MAP (35NBML) STA 5042+00 TO STA 5053+00
0	10/10/2013	DA5104	DRAINAGE AREA MAP (35NBML) STA 5053+00 TO STA 5064+00
1	12/20/2013	DA5105	DRAINAGE AREA MAP (30EBML) STA 1108+00 TO STA 1119+00
1	12/20/2013	DA5301	DRAINAGE HYDRAULIC DATA AREA REPORT
2	07/15/2014	DA5302	DRAINAGE HYDRAULIC DATA AREA REPORT
3	6/20/2014	DA5401	DRAINAGE HYDRAULIC DATA INLET CONFIGURATION
1	12/20/2013	DA5402	DRAINAGE HYDRAULIC DATA INLET CONFIGURATION
1	07/15/2014	DA5403	DRAINAGE HYDRAULIC DATA INLET CONFIGURATION
3	6/20/2014	DA5501	DRAINAGE HYDRAULIC DATA INLET HYDRAULICS
1	12/20/2013	DA5502	DRAINAGE HYDRAULIC DATA INLET HYDRAULICS
1	07/15/2014	DA5503	DRAINAGE HYDRAULIC DATA INLET HYDRAULICS
2	3/06/2015	DA5601	DRAINAGE AREA (MIXMASTER)
4	04/08/2015	DA5602	DRAINAGE HYDRAULIC DATA LINK CONFIGURATION
0	10/10/2013	DA5603	DRAINAGE HYDRAULIC DATA LINK CONFIGURATION
1	07/15/2014	DA5604	DRAINAGE HYDRAULIC DATA LINK CONFIGURATION
2	3/06/2015	DA5701	DRAINAGE HYDRAULIC DATA LINK HYDRAULICS
2	07/15/2014	DA5702	DRAINAGE HYDRAULIC DATA LINK HYDRAULICS
2	04/08/2015	DA5703	DRAINAGE HYDRAULIC DATA LINK HYDRAULICS
0	10/10/2013	DA5704	DRAINAGE HYDRAULIC DATA LINK HYDRAULICS
0	10/10/2013	DA5705	DRAINAGE HYDRAULIC DATA LINK HYDRAULICS
1	07/15/2014	DA5706	DRAINAGE HYDRAULIC DATA LINK HYDRAULICS
0	10/10/2013	DA5707	DRAINAGE HYDRAULIC DATA CULVERT F1 - CROSS SECTIONS
0	10/10/2013	DA5708	DRAINAGE HYDRAULIC DATA CULVERT F1 AND F2
0	10/10/2013	DA5709	DRAINAGE HYDRAULIC DATA CULVERT F1
0	10/10/2013	DA5710	DRAINAGE HYDRAULIC DATA BCS
0	10/10/2013	DA5801	DRAINAGE HYDRAULIC DATA CULVERT F1 AND F2
5	06/12/2014	DA6101	DRAINAGE AREA (CANYON)
1	10/10/2013	DA6102	DRAINAGE AREA MAP (30EBML) STA 1119+00 TO STA 1128+00
0	8/12/2013	DA6103	DRAINAGE AREA MAP (30EBML) STA 1128+00 TO STA 1138+00
1	8/28/2014	DA6104	DRAINAGE AREA MAP (30EBML) STA 1138+00 TO STA 1148+00
0	8/12/2013	DA6105	DRAINAGE AREA MAP (30EBML) STA 1148+00 TO STA 1158+00
0	8/12/2013	DA6106	DRAINAGE AREA MAP (30EBML) STA 1158+00 TO STA 1169+00
6	8/28/2014	DA6301	DRAINAGE AREA MAP (30EBML) STA 1169+00 TO END
7	8/28/2014	DA6401	DRAINAGE HYDRAULIC DATA AREA REPORT
7	8/28/2014	DA6501	DRAINAGE HYDRAULIC DATA INLET CONFIGURATION
9	8/28/2014	DA6601	DRAINAGE HYDRAULIC DATA INLET HYDRAULICS
6	7/02/2014	DA6701	DRAINAGE HYDRAULIC DATA LINK CONFIGURATION
3	8/28/2014	DA6702	DRAINAGE HYDRAULIC DATA LINK HYDRAULICS
2	4/21/2014	DA6710	DRAINAGE HYDRAULIC DATA DITCH TABLE
1	4/21/2014	DA6711	DRAINAGE HYDRAULIC DATA DITCH TABLE
0	10/10/2013	DA6712	DRAINAGE HYDRAULIC DATA DITCH TABLE
3	7/18/2014	DA6713	DRAINAGE HYDRAULIC DATA DITCH TABLE
3	4/21/2014	DA6714	DRAINAGE HYDRAULIC DATA DITCH TABLE
0	10/10/2013	DA6715	DRAINAGE HYDRAULIC DATA DITCH TABLE
3	5/2/2014	DA6716	DRAINAGE HYDRAULIC DATA DITCH TABLE
			DRAINAGE SYSTEM (SYLVAN TO BECKLEY)
		VOID	TITLE SHEET AREA 1
		VOID	TITLE SHEET AREA 2
		VOID	INDEX OF SHEETS AREA 1
		VOID	INDEX OF SHEETS AREA 2
		VOID	INDEX OF SHEETS AREA 2
1	5/16/2014	DR1001	INDEX OF STANDARDS AREA 1
1	VOID	DR1002	INDEX OF STANDARDS AREA 1
2	2/24/2014	DR1051	DRAINAGE SYSTEM AREA 1
2	2/24/2014	DR1052	DRAINAGE SYSTEM AREA 1
1	10/11/2013	DR1053	DRAINAGE SYSTEM AREA 1
0	10/11/2013	DR1100	DRAINAGE PLAN 30MLCL
2	2/24/2014	DR1101	DRAINAGE PLAN 30MLCL
5	10/23/2015	* DR1102	DRAINAGE PLAN 30MLCL
3	7/31/2015	DR1103	DRAINAGE PLAN 30MLCL
5	6/27/2014	DR1104	DRAINAGE PLAN 30MLCL
4	6/27/2014	DR1105	DRAINAGE PLAN 30MLCL
0	10/11/2013	DR1106	DRAINAGE PLAN 30MLCL

INDEX OF SHEETS

REV	DATE	SHEET	DESCRIPTION
2	6/27/2014	DR1107	DRAINAGE SYSTEM (SYLVAN TO BECKLEY)
2	2/24/2014	DR1401	DRAINAGE PLAN 30MLCL
2	2/24/2014	DR1402	DRAINAGE PROFILE STORM SEWER PROFILES
3	5/16/2014	DR1403	DRAINAGE PROFILE STORM SEWER PROFILES
2	1/3/2014	DR1404	DRAINAGE PROFILE STORM SEWER PROFILES
2	5/16/2014	DR1405	DRAINAGE PROFILE STORM SEWER PROFILES
2	5/16/2014	DR1406	DRAINAGE PROFILE STORM SEWER PROFILES
2	5/16/2014	DR1407	DRAINAGE PROFILE STORM SEWER PROFILES
2	5/16/2014	DR1408	DRAINAGE PROFILE STORM SEWER PROFILES
0	10/11/2013	DR1409	DRAINAGE PROFILE STORM SEWER PROFILES
	VOID	DR1410	DRAINAGE PROFILE STORM SEWER PROFILES
1	2/24/2014	DR1411	DRAINAGE PROFILE STORM SEWER PROFILES
2	5/16/2014	DR1412	DRAINAGE PROFILE STORM SEWER PROFILES
	VOID	DR1413	DRAINAGE PROFILE STORM SEWER PROFILES
3	7/31/2015	DR1414	DRAINAGE PROFILE STORM SEWER PROFILES
2	5/16/2014	DR1415	DRAINAGE PROFILE STORM SEWER PROFILES
1	2/24/2014	DR1416	DRAINAGE PROFILE STORM SEWER PROFILES
1	5/16/2014	DR1417	DRAINAGE PROFILE STORM SEWER PROFILES
1	5/16/2014	DR1418	DRAINAGE PROFILE STORM SEWER PROFILES
1	5/16/2014	DR1419	DRAINAGE PROFILE STORM SEWER PROFILES
1	10/11/2013	DR1501	DRAINAGE PROFILE STORM SEWER PROFILES
3	6/27/2014	DR1502	DRAINAGE PROFILE STORM SEWER PROFILES
3	5/16/2014	DR1503	DRAINAGE PROFILE STORM SEWER PROFILES
2	5/16/2014	DR1504	DRAINAGE PROFILE STORM SEWER PROFILES
0	10/11/2013	DR1505	DRAINAGE PROFILE STORM SEWER PROFILES
2	5/16/2014	DR1506	DRAINAGE PROFILE STORM SEWER PROFILES
2	5/16/2014	DR1507	DRAINAGE PROFILE STORM SEWER PROFILES
1	2/24/2014	DR1508	DRAINAGE PROFILE STORM SEWER PROFILES
2	5/16/2014	DR1509	DRAINAGE PROFILE STORM SEWER PROFILES
3	10/23/2015	* DR1510	DRAINAGE PROFILE STORM SEWER PROFILES
3	10/23/2015	* DR1511	DRAINAGE PROFILE STORM SEWER PROFILES
	VOID	DR1512	DRAINAGE PROFILE STORM SEWER PROFILES
2	7/31/2015	DR1513	DRAINAGE PROFILE STORM SEWER LATERALS
0	6/27/2014	DR1601	CULVERT PLAN & PROFILE SUMP CULVERT BECKTRAIL STA 13+89.93
0	10/11/2013	DR2001	DRAINAGE SYSTEM (WEST OF MIXMASTER)
0	10/11/2013	DR2051	INDEX OF STANDARDS AREA 1
4	8/20/2014	DR2101	DRAINAGE SYSTEM AREA 1
4	2/13/2015	DR2102	DRAINAGE PLAN 30EBML
5	3/06/2015	DR2103	DRAINAGE PLAN 30EBML
1	5/16/2014	DR2104	DRAINAGE PLAN 30EBML
3	8/20/2014	DR2105	DRAINAGE PLAN 30EBML
1	2/13/2015	DR2106	DRAINAGE PLAN 30EBML
0	3/19/2014	DR2301	DRAINAGE DETAIL TRINITY RIVER
2	8/20/2014	DR2401	DRAINAGE PROFILE STORM SEWER PROFILES
3	8/20/2014	DR2501	DRAINAGE PROFILE STORM SEWER PROFILES
2	8/20/2014	DR2502	DRAINAGE PROFILE STORM SEWER PROFILES
1	5/16/2014	DR2503	DRAINAGE PROFILE STORM SEWER PROFILES
2	8/20/2014	DR2504	DRAINAGE PROFILE STORM SEWER PROFILES
1	5/16/2014	DR2505	DRAINAGE PROFILE STORM SEWER PROFILES
4	2/13/2015	DR2506	DRAINAGE PROFILE STORM SEWER PROFILES
1	3/19/2014	DR3001	DRAINAGE SYSTEM (IH35E NORTH)
2	2/13/2015	DR3051	INDEX OF STANDARDS AREA 1
6	6/3/2015	DR3101	DRAINAGE SYSTEM AREA 1
6	7/31/2015	DR3102	DRAINAGE PLAN 35NBML
0	6/3/2015	DR3102A	DRAINAGE PLAN 35NBML
0	11/8/2013	DR3103	DRAINAGE PLAN 35NBML
3	6/3/2015	DR3104	DRAINAGE PLAN 35NBML
1	5/16/2014	DR3105	DRAINAGE PLAN 35NBML
1	1/3/2014	DR3401	DRAINAGE PROFILE STORM SEWER PROFILES
2	2/13/2015	DR3402	DRAINAGE PROFILE STORM SEWER PROFILES
1	2/13/2015	DR3403	DRAINAGE PROFILE STORM SEWER PROFILES
3	6/3/2015	DR3404	DRAINAGE PROFILE STORM SEWER PROFILES
1	5/16/2014	DR3405	DRAINAGE PROFILE STORM SEWER PROFILES
1	1/3/2014	DR3501	DRAINAGE PROFILE STORM SEWER LATERALS
0	11/8/2013	DR3502	DRAINAGE PROFILE STORM SEWER LATERALS
1	8/20/2014	DR3503	DRAINAGE PROFILE STORM SEWER LATERALS
1	2/13/2015	DR3504	DRAINAGE PROFILE STORM SEWER LATERALS
	VOID	DR3505	DRAINAGE PROFILE STORM SEWER LATERALS
2	6/3/2015	DR3506	DRAINAGE PROFILE STORM SEWER LATERALS
0	6/3/2015	DR3507	DRAINAGE PROFILE STORM SEWER LATERALS

ISSUE RECORD		
NO.	DESCRIPTION	DATE
29	NDC 00170	03/06/2015
30	NDC 00171	03/20/2015
31	NDC 00172	04/08/2015
32	NDC 00175	06/03/2015
33	NDC 00178	07/31/2015
34	NDC 00185	10/23/2015



Pegasus Link Constructors,LLC

PARSONS BRINCKERHOFF
Parsons Brinckerhoff, Inc.
2777 N. Stemmons Freeway, Ste. 1600
Dallas, Texas 75207
TBPE F-2263

HORSESHOE PROJECT
INDEX OF SHEETS
DRAINAGE AREA 1 & AREA 2

FILE NAME:
011DA0142INDX
CONTROL:
ECP0DR6998
DESIGN PACKAGE:
RFC
SHEET:
2 OF 03

* INDICATES REVISED SHEET

RELEASED FOR CONSTRUCTION

By Alyssa Moss at 4:21 pm, Nov 04, 2015

Pegasus Link Constructors

Texas Department of Transportation
© 2015

DESIGNED SV	FED. RD. DIV. NO. 6	FEDERAL AID PROJECT NO. (SEE TITLE SHEET)		HIGHWAY NO. IH 30
DRAWN BZ	STATE	DISTRICT	COUNTY	SHEET NO.
CHECKED SP	TEXAS	DAL	DALLAS	
APPROVED SV	CONTROL	SECTION	JOB	DA0142
	1068	04	116	

PWD:CS\$
011da0142indx.dgn
10/23/2015
7:47:47 PM
ip10t-dr-vn.plt
\\pwcscs\pwcscs\work\60990\60978_3\011da0142indx.dgn

PWD:CS\$
011da0143indx.dgn

INDEX OF SHEETS

REV	DATE	SHEET	DESCRIPTION
0	3/19/2014	DR3901	DRAINAGE DETAILS
0	3/19/2014	DR3902	DRAINAGE DETAIL COLLAR CONNECTION
	VOID	DR3903	DRAINAGE DETAIL COLLAR CONNECTION
	VOID	DR3904	DRAINAGE DETAIL MANHOLE MODIFICATION
		DR3904	DRAINAGE DETAIL MANHOLE MODIFICATION
			DRAINAGE SYSTEM (COLORADO TO LOUISIANA)
2	4/21/2014	DR4000	INDEX OF STANDARDS DRAINAGE AREA 2
1	10/10/2013	DR4001	DRAINAGE SYSTEM COLORADO TO LOUISIANA STORM SEWER SYSTEM
0	10/10/2013	DR4101	DRAINAGE PLAN (35NBML) BEGIN TO STA 4998+00
3	3/4/2014	DR4102	DRAINAGE PLAN (35NBML) STA 4998+00 TO STA 5009+00
8	6/23/2014	DR4103	DRAINAGE PLAN (35NBML) STA 5009+00 TO STA 5021+00
8	4/08/2015	DR4104	DRAINAGE PLAN (35NBML) STA 5021+00 TO STA 5031+00
1	8/25/2014	DR4105	DRAINAGE PLAN (35NBML) STA 5031+00 TO STA 5042+00
4	3/4/2014	DR4401	DRAINAGE PROFILE SYSTEM D-A
2	11/6/2013	DR4402	DRAINAGE PROFILE SYSTEM D-A
2	11/6/2013	DR4403	DRAINAGE PROFILE SYSTEM D-A
4	6/23/2014	DR4404	DRAINAGE PROFILE SYSTEM D-B
4	8/25/2014	DR4405	DRAINAGE PROFILE SYSTEM D-B
2	8/25/2014	DR4406	DRAINAGE PROFILE SYSTEM D-C
4	4/21/2014	DR4501	DRAINAGE PROFILE SYSTEM D-A LATERALS
6	4/21/2014	DR4502	DRAINAGE PROFILE SYSTEM D-A LATERALS
4	5/7/2014	DR4503	DRAINAGE PROFILE SYSTEM D-A LATERALS
6	4/08/2015	DR4504	DRAINAGE PROFILE SYSTEM D-B LATERALS
5	4/08/2015	DR4505	DRAINAGE PROFILE SYSTEM D-B LATERALS
5	7/24/2014	DR4506	DRAINAGE PROFILE SYSTEM D-B LATERALS
4	6/23/2014	DR4507	DRAINAGE PROFILE SYSTEM D-B LATERALS
4	6/23/2014	DR4508	DRAINAGE PROFILE SYSTEM D-B LATERALS
			DRAINAGE SYSTEM (COLORADO TO LOUISIANA)
3	5/23/2014	DR4509	DRAINAGE PROFILE SYSTEM D-B LATERALS
1	8/25/2014	DR4510	DRAINAGE PROFILE SYSTEM D-C LATERALS
0	10/10/2013	DR4701	DRAINAGE DETAIL PROTECTION SLAB
1	8/25/2014	DR4702	DRAINAGE DETAIL JUNCTION BOX @ D-B-01
0	03/04/2014	DR4703	DRAINAGE DETAIL TEMP INLET COVER
			DRAINAGE SYSTEM (MIXMASTER)
0	10/10/2013	DR5001	DRAINAGE SYSTEM MIX MASTER STORM SEWER SYSTEM LAYOUT
0	10/10/2013	DR5101	DRAINAGE PLAN (35SBML) STA 5041+00 TO STA 5051+00
0	10/10/2013	DR5102	DRAINAGE PLAN (35SBML) STA 5051+00 TO STA 5064+00
0	10/10/2013	DR5103	DRAINAGE PLAN (35NBML) STA 5042+00 TO STA 5053+00
6	4/08/2015	DR5104	DRAINAGE PLAN (35NBML) STA 5053+00 TO STA 5064+00
5	03/06/2015	DR5105	DRAINAGE PLAN (30EBML) STA 1108+00 TO STA 1119+00
0	10/10/2013	DR5201	CULVERT PLAN & PROFILE CULVERT F1 CD9 STA 1027+57.49
0	10/10/2013	DR5202	CULVERT PLAN & PROFILE CULVERT F2 30MLCL STA 1112+11.72
2	03/06/2015	DR5203	CULVERT PLAN & PROFILE CULVERT F2 30MLCL STA 1112+11.72
0	10/10/2013	DR5204	CULVERT PLAN & PROFILE SUMP CULVERT RMP5 STA 13+96.09
0	10/10/2013	DR5301	DRAINAGE PLAN SUMP POND 2
3	07/02/2014	DR5302	DRAINAGE PLAN SUMP POND 3
0	10/10/2013	DR5401	DRAINAGE PROFILE STORM SEWER PROFILES
3	4/21/2014	DR5402	DRAINAGE PROFILE SYSTEM F-B
2	4/21/2014	DR5403	DRAINAGE PROFILE SYSTEM F-C
3	03/06/2015	DR5404	DRAINAGE PROFILE SYSTEM F-D AND F-E
3	4/21/2014	DR5405	DRAINAGE PROFILE SYSTEM F-G
3	4/21/2014	DR5406	DRAINAGE PROFILE SYSTEM F-I
3	07/15/2014	DR5407	DRAINAGE PROFILE SYSTEM F-J
0	10/10/2013	DR5408	DRAINAGE PROFILE SYSTEM F-L
5	4/08/2015	DR5409	DRAINAGE PROFILE SYSTEM F-M
2	4/08/2015	DR5410	DRAINAGE PROFILE SYSTEM F-N
0	10/10/2013	DR5411	DRAINAGE PROFILE SYSTEM F-P
0	10/10/2013	DR5501	DRAINAGE PROFILE SYSTEM F-A LATERALS
2	4/21/2014	DR5502	DRAINAGE PROFILE SYSTEM F-C LATERALS
2	03/06/2015	DR5503	DRAINAGE PROFILE SYSTEM F-D LATERALS
2	4/21/2014	DR5504	DRAINAGE PROFILE SYSTEM F-G LATERALS
3	4/21/2014	DR5505	DRAINAGE PROFILE SYSTEM F-I LATERALS
3	4/21/2014	DR5506	DRAINAGE PROFILE SYSTEM F-I LATERALS
3	4/21/2014	DR5507	DRAINAGE PROFILE SYSTEM F-J LATERALS
2	07/15/2014	DR5508	DRAINAGE PROFILE SYSTEM F-J LATERALS
0	10/10/2013	DR5701	DRAINAGE DETAIL JUNCTION BOX F2
			DRAINAGE SYSTEM (CANYON)
1	10/10/2013	DR6001	DRAINAGE SYSTEM CANYON STORM SEWER SYSTEM LAYOUT
8	07/02/2014	DR6101	DRAINAGE PLAN (30EBML) STA 1119+00 TO STA 1128+00
2	7/18/2014	DR6102	DRAINAGE PLAN (30EBML) STA 1128+00 TO STA 1138+00
2	08/28/2014	DR6103	DRAINAGE PLAN (30EBML) STA 1138+00 TO STA 1148+00
2	08/28/2014	DR6104	DRAINAGE PLAN (30EBML) STA 1148+00 TO STA 1158+00

INDEX OF SHEETS

REV	DATE	SHEET	DESCRIPTION
2	12/20/2013	DR6105	DRAINAGE PLAN (30EBML) STA 1158+00 TO STA 1169+00
0	8/12/2013	DR6106	DRAINAGE PLAN (30EBML) STA 1169+00 TO END
4	6/12/2014	DR6401	DRAINAGE PROFILE SYSTEM E-A
1	6/3/2014	DR6402	DRAINAGE PROFILE SYSTEM E-A
5	07/02/2014	DR6403	DRAINAGE PROFILE SYSTEM E-B
1	10/10/2013	DR6404	DRAINAGE PROFILE SYSTEM E-C
			DRAINAGE SYSTEM (CANYON)
0	8/12/2013	DR6405	DRAINAGE PROFILE SYSTEM E-D
2	7/18/2014	DR6406	DRAINAGE PROFILE SYSTEM E-E
1	10/10/2013	DR6407	DRAINAGE PROFILE SYSTEM E-F
0	8/12/2013	DR6408	DRAINAGE PROFILE SYSTEM E-G
0	8/12/2013	DR6409	DRAINAGE PROFILE SYSTEM E-H
1	10/10/2013	DR6410	DRAINAGE PROFILE SYSTEM E-I
1	10/10/2013	DR6411	DRAINAGE PROFILE SYSTEM E-J
0	8/12/2013	DR6412	DRAINAGE PROFILE SYSTEM E-K
0	8/12/2013	DR6413	DRAINAGE PROFILE SYSTEM E-L
0	8/12/2013	DR6414	DRAINAGE PROFILE SYSTEM E-M
1	8/28/2014	DR6415	DRAINAGE PROFILE SYSTEM E-N
1	8/28/2014	DR6416	DRAINAGE PROFILE SYSTEM E-O
1	8/28/2014	DR6417	DRAINAGE PROFILE SYSTEM E-P
1	8/28/2014	DR6418	DRAINAGE PROFILE SYSTEM E-Q
0	8/12/2013	DR6419	DRAINAGE PROFILE SYSTEM E-R
0	8/12/2013	DR6420	DRAINAGE PROFILE SYSTEM E-S
0	8/12/2013	DR6421	DRAINAGE PROFILE SYSTEM E-T
0	8/12/2013	DR6422	DRAINAGE PROFILE SYSTEM E-U
0	8/12/2013	DR6423	DRAINAGE PROFILE SYSTEM E-V
0	8/12/2013	DR6424	DRAINAGE PROFILE SYSTEM E-W
5	6/12/2014	DR6501	DRAINAGE PLAN SYSTEM E-A LATERALS
5	07/02/2014	DR6502	DRAINAGE PLAN SYSTEM E-B LATERALS
0	08/28/2014	DR6503	TRENCH DRAIN DETAILS
0	08/28/2014	DR6504	TRENCH DRAIN DETAILS
0	08/28/2014	DR6505	TRENCH DRAIN DETAILS

* INDICATES REVISED SHEET

RELEASED FOR CONSTRUCTION

By Alyssa Moss at 9:18 am, Jul 01, 2015

Pegasus Link Constructors



ISSUE RECORD		
NO.	DESCRIPTION	DATE
22	NDC 00142	08/25/2014
23	NDC 00140	08/28/2014
24	NDC 00170	03/06/2015
25	NDC 00171	03/20/2015
26	NDC 00172	04/08/2015
27	NDC 00175	06/03/2015



Pegasus Link Constructors,LLC

PARSONS
BRINCKERHOFF

Parsons Brinckerhoff, Inc.
2777 N. Stemmons Freeway, Ste. 1600
Dallas, Texas 75207
TBPE F-2263

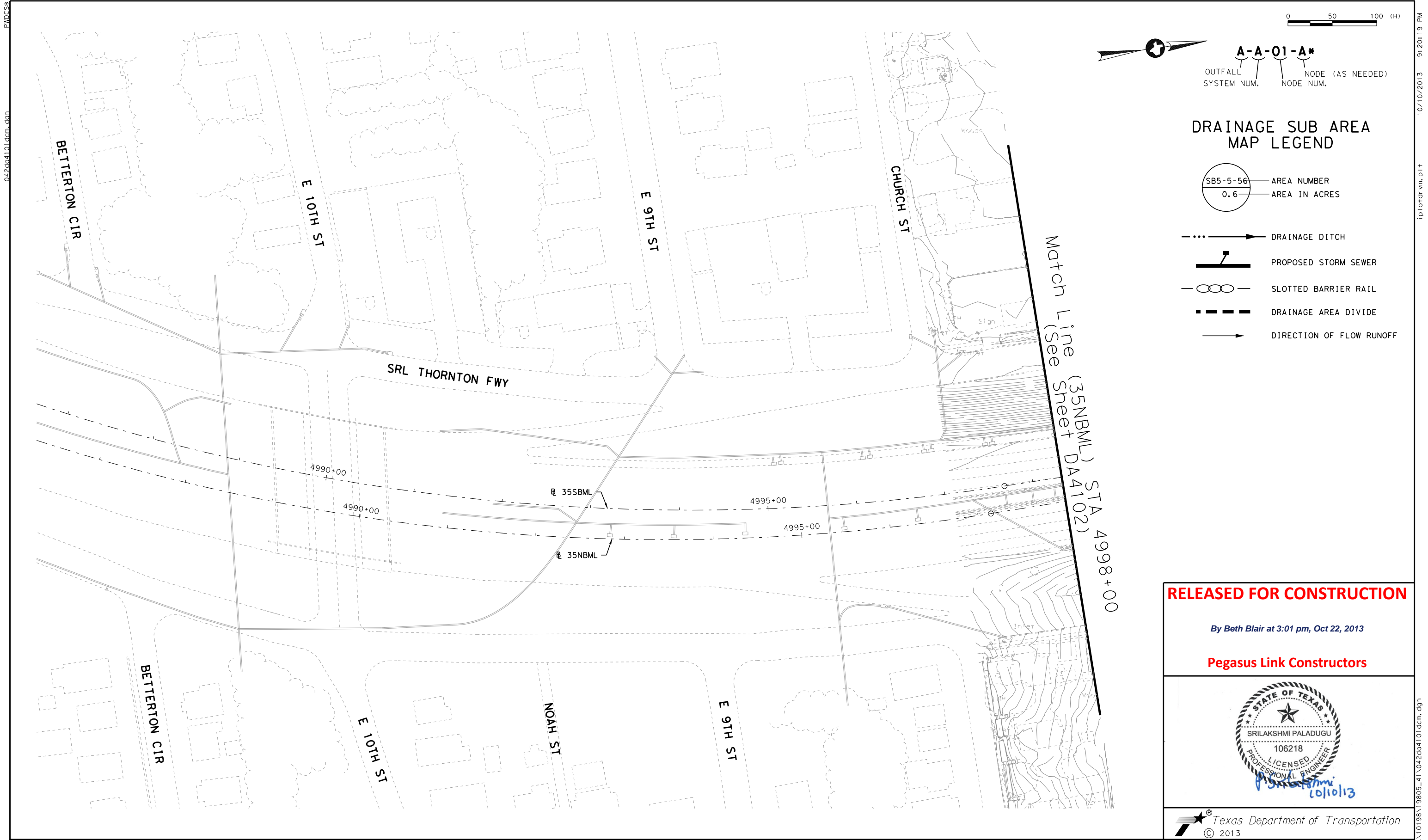
HORSESHOE PROJECT
INDEX OF SHEETS
DRAINAGE AREA 1 & AREA 2

FILE NAME: 011DA0143INDX
CONTROL: ECP0DR6998
DESIGN PACKAGE: RFC
SHEET: 3 OF 03

DESIGNED SV	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.			HIGHWAY NO.
	6	(SEE TITLE SHEET)			IH 30
DRAWN BZ	STATE	DISTRICT	COUNTY	SHEET NO.	
CHECKED SP	TEXAS	DAL	DALLAS	DA0143	
APPROVED SV	CONTROL	SECTION	JOB		
	1068	04	116		

PWD:CS\$ 011da0143indx.dgn 6/4/2015 9:52:43 PM \\pwc\cs\pwc\swrk\45929\60978_4\011da0143indx.dgn

PWDGSS
042da4101dam.dgn



RELEASED FOR CONSTRUCTION

By Beth Blair at 3:01 pm, Oct 22, 2013

Pegasus Link Constructors



Texas Department of Transportation
© 2013

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
O	RFC	10/10/2013



Pegasus Link Constructors,LLC

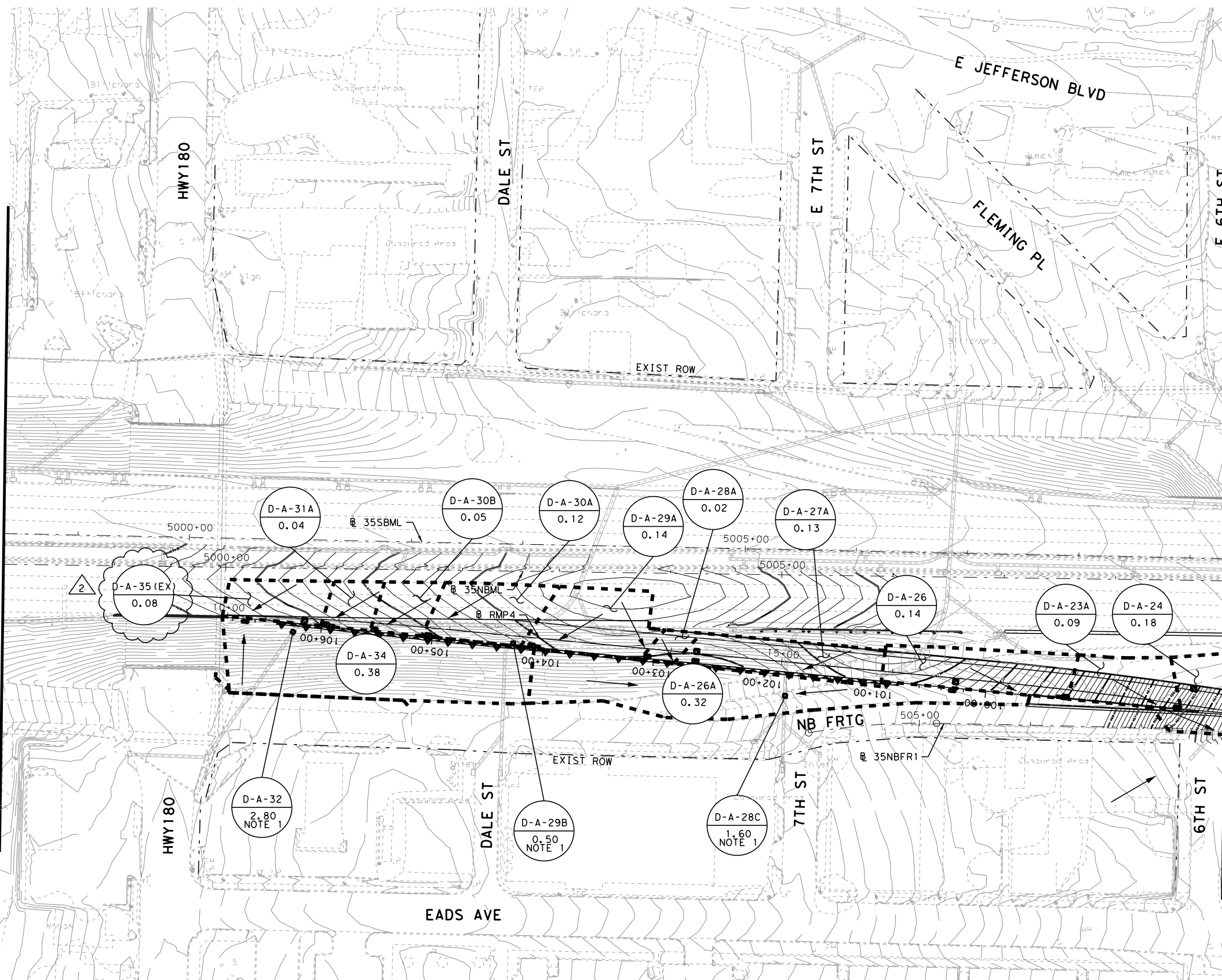
AECOM Technical Services, Inc.- F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
DRAINAGE AREA MAP
(35NBML) BEGIN TO STA 4998+00

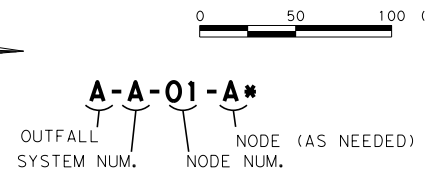
FILE NAME:
042DA4101DAM
CONTROL:
ECP0DR6717
DESIGN PACKAGE:
RFC
SHEET:
01 OF 05

DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.			HIGHWAY NO.
	6	(SEE TITLE SHEET)			IH 30
DRAWN	STATE	DISTRICT	COUNTY		SHEET NO.
BZ	TEXAS	DAL	DALLAS		
CHECKED FG	CONTROL	SECTION	JOB		
	1068	04	116		DA4101
APPROVED SP					

Match Line (35NBML) STA 4998+00
(See Sheet DA4101)



Match Line (35NBML) STA 5009+00
(See Sheet DA4103)



DRAINAGE SUB AREA MAP LEGEND

- AREA NUMBER
AREA IN ACRES
- DRAINAGE DITCH
- PROPOSED STORM SEWER
- SLOTTED BARRIER RAIL
- DRAINAGE AREA DIVIDE
- DIRECTION OF FLOW RUNOFF

- NOTES:
- EXISTING OFF-SITE DRAINAGE AREAS WERE PROVIDED FROM TXDOT AS-BUILT PLANS CSJ 442-2-20
 - EXISTING DRAINAGE AREAS ARE BEING DETERMINED BY AN EXISTING OFF-SITE STORMSEWER SYSTEM WHICH WILL BE CONNECTED TO THE PROPOSED SYSTEM.

RELEASED FOR CONSTRUCTION

By Beth Blair at 11:01 am, Mar 26, 2014

Pegasus Link Constructors



P. Paladugu 3/15/14

Texas Department of Transportation
© 2014

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
O	RFC EARLY START	08/12/2013
OC	FINAL	09/09/2013
1	RFC	10/10/2013
1	NDC 00009	10/10/2013
2	NDC 00064	03/04/2014

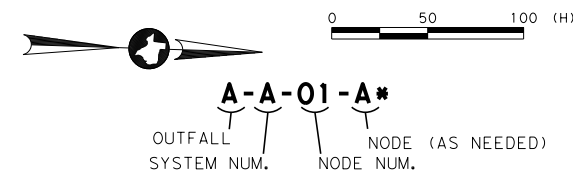
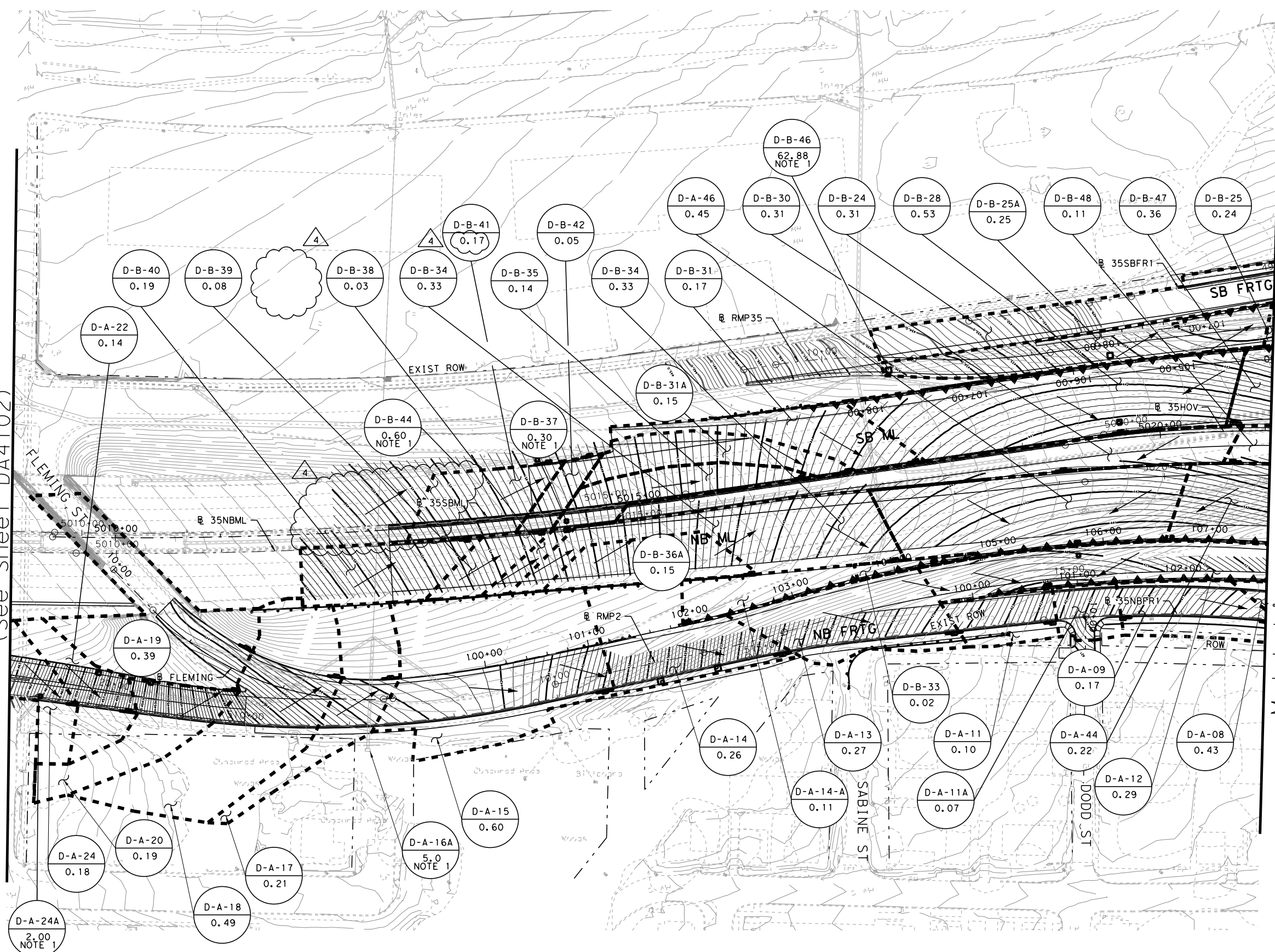


Pegasus Link Constructors, LLC

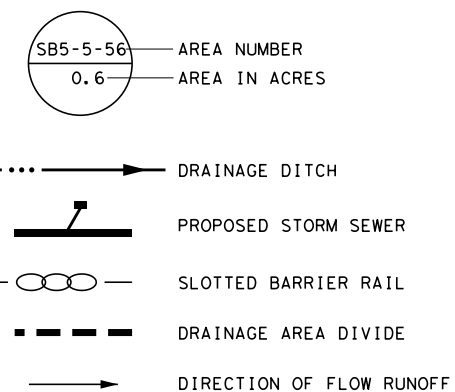
AECOM AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT DRAINAGE AREA MAP (35NBML) STA 4998+00 TO STA 5009+00

FILE NAME: 042DA4102DAM	DESIGNED SP	FED. RD. DIST. NO. 6	FEDERAL AID PROJECT NO. (SEE TITLE SHEET)	HIGHWAY NO. IH 30
CONTROL: ECP0DR6717	DRAWN BZ	STATE	DISTRICT	COUNTY
DESIGN PACKAGE: RFC	CHECKED FG	TEXAS	DAL	DALLAS
SHEET: 02 OF 05	APPROVED SP	SECTION 1068	JOB 04	116
				DA4102



DRAINAGE SUB AREA MAP LEGEND



NOTES:

- NOTES:
1. EXISTING OFF-SITE DRAINAGE AREAS WERE PROVIDED FROM TXDOT AS-BUILT PLANS CSJ 442-2-20
 2. EXISTING DRAINAGE AREAS ARE BEING DETERMINED BY AN EXISTING OFF-SITE STORMSEWER SYSTEM WHICH WILL BE CONNECTED TO THE PROPOSED SYSTEM.

Match Line (35NBML) STA 5021+00
(See Sheet DA4104)

RELEASED FOR CONSTRUCTION

By Beth Blair at 5:21 pm, May 13, 2014

Pegasus Link Constructors

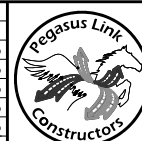


P. Srisabhini 4/23/2014



★[®] *Texas Department of Transportation*
(C) 2014

ISSUE RECORD		
NO.	DESCRIPTION	DATE
OC	FINAL	09/09/2013
1	RFC	10/10/2013
1	NDC 00009	10/10/2013
2	NDC 00023	11/06/2013
3	NDC 00049	12/20/2013
4	NDC 00088	04/23/2014



Pegasus Link Constructors,LLC



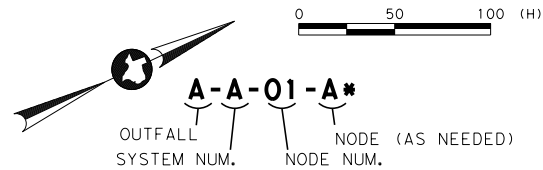
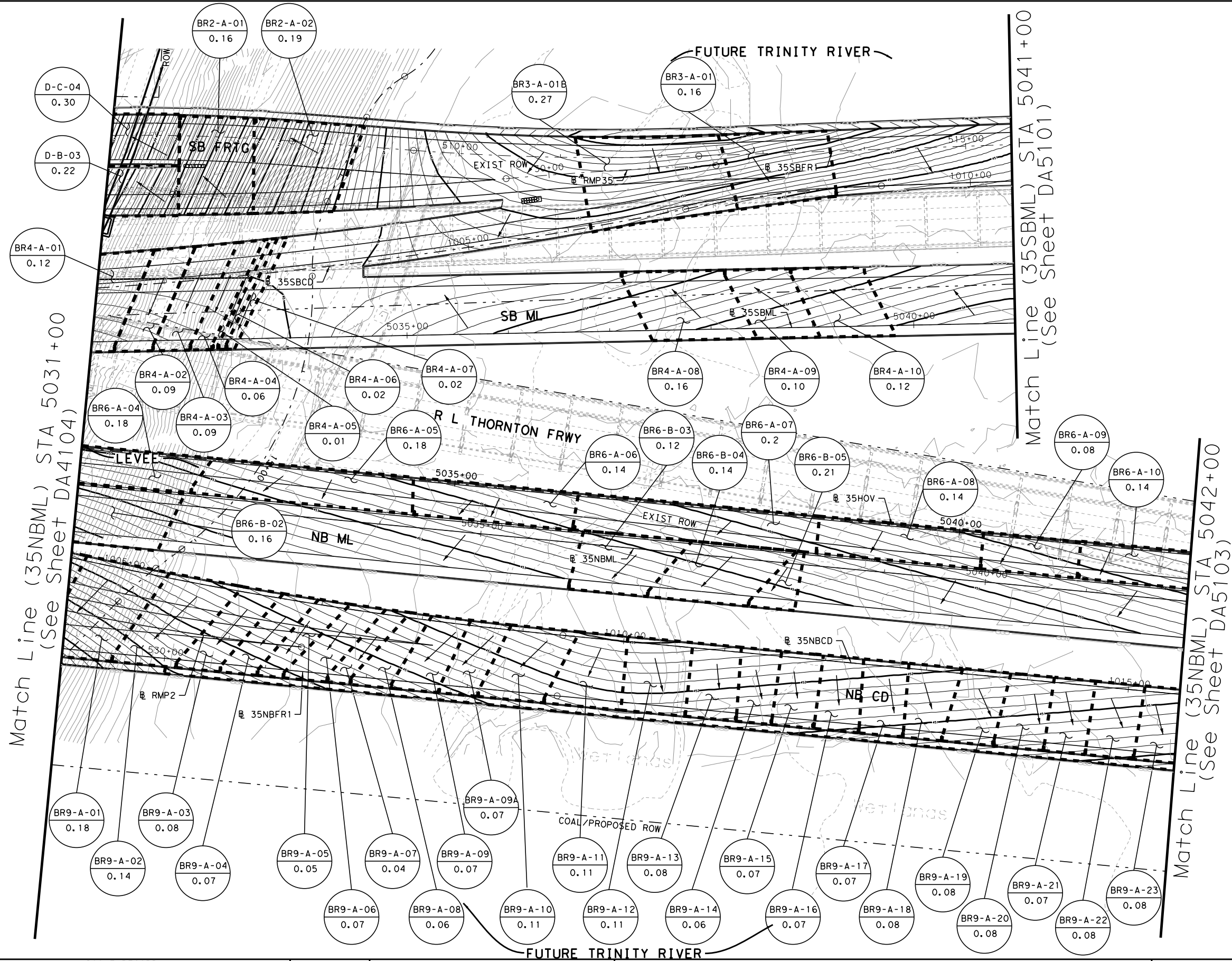
AECOM Technical Services, Inc.- F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
DRAINAGE AREA MAP
(35NBML) STA 5009+00 TO STA 5021+00

FILE NAME:	042DA4103DAM
CONTROL:	ECP0DR6717
DESIGN PACKAGE:	RFC
SHEET:	03 OF 05

DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
DRAWN BZ	6	(SEE TITLE SHEET)		IH 30
CHECKED FG	TEXAS	DAL	DALLAS	SHEET NO.
APPROVED SP	CONTROL	SECTION	JOB	DA4103
	1068	04	116	





DRAINAGE SUB AREA MAP LEGEND

- AREA NUMBER
AREA IN ACRES
- DRAINAGE DITCH
- PROPOSED STORM SEWER
- SLOTTED BARRIER RAIL
- DRAINAGE AREA DIVIDE
- DIRECTION OF FLOW RUNOFF

NOTE: AREAS NOT SHOWING ACREAGE AND RUNOFF ARE PASSING THROUGH SLOTTED RAIL.

RELEASED FOR CONSTRUCTION

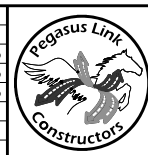
By Beth Blair at 3:01 pm, Oct 22, 2013

Pegasus Link Constructors



Texas Department of Transportation
© 2013

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
O	RFC	10/10/2013



Pegasus Link Constructors, LLC

AECOM AECOM Technical Services, Inc. F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

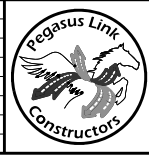
HORSESHOE PROJECT DRAINAGE AREA MAP (35NBML) STA 5031+00 TO STA 5042+00

FILE NAME:
042DA4105DAM
CONTROL:
ECP0DR6717
DESIGN PACKAGE:
RFC
SHEET:
05 OF 05

DESIGNED SP	FED. RD. DIV. NO.		FEDERAL AID PROJECT NO.		HIGHWAY NO.
DRAWN BZ	6		(SEE TITLE SHEET)		IH 30
CHECKED FG	STATE	DISTRICT	COUNTY		SHEET NO.
APPROVED SP	TEXAS	DAL	DALLAS		DA4105
	CONTROL	SECTION	JOB		
	1068	04	116		

Area ID	Area Composite C Value	Drainage Area (AC)	Time of Concentration (Minutes)	Time Used (Minutes)	Intensity (In/Hr)	Discharge (CFS)
DRAINAGE AREA SYSTEM D-A FREQUENCY -10YEAR						
D-A-03	0.9	0.3	1.5	10	8.01	2.19
D-A-36	0.9	0.34	1.5	10	8.01	2.48
D-A-06	0.9	0.15	1.5	10	8.01	1.07
D-A-08	0.82	0.43	1.5	10	8.01	2.83
D-A-38	0.9	0.17	1.5	10	8.01	1.22
D-A-09	0.9	0.17	1.5	10	8.01	1.23
D-A-40	0.9	0.53	1.5	10	8.01	3.79
D-A-11A	0.9	0.07	2	10	8.01	0.5
D-A-10	0.9	0.15	1.5	10	8.01	1.06
D-A-42	0.9	0.27	1.5	10	8.01	1.96
D-A-11	0.9	0.1	2	10	8.01	0.75
D-A-44	0.9	0.22	1.5	10	8.01	1.58
D-A-13	0.9	0.27	1.5	10	8.01	1.96
D-A-12	0.9	0.29	1.5	10	8.01	2.07
D-A-46	0.9	0.45	1.5	10	8.01	3.28
D-A-14	0.75	0.26	1.5	10	8.01	1.54
D-A-14-A	0.7	0.11	1.5	10	8.01	0.61
D-A-15	0.79	0.6	12.01	12.01	7.4	3.35
D-A-17	0.76	0.21	1.5	10	8.01	1.29
D-A-18	0.75	0.49	1.5	10	8.01	2.94
D-A-19	0.9	0.39	1.5	10	8.01	2.81
D-A-20	0.77	0.19	1.5	10	8.01	1.16
D-A-22	0.7	0.14	1.5	10	8.01	0.78
D-A-24	0.85	0.18	1.5	10	8.01	1.25
D-A-23A	0.9	0.09	1.5	10	8.01	0.65
D-A-26	0.9	0.14	1.5	10	8.01	1.04
D-A-26A	0.9	0.32	1.5	10	8.01	2.33
D-A-27A	0.9	0.13	1.5	10	8.01	0.92
D-A-28A	0.9	0.02	1.5	10	8.01	0.16
D-A-29A	0.9	0.14	1.5	10	8.01	0.99
D-A-30A	0.9	0.12	1.5	10	8.01	0.85
D-A-30B	0.9	0.05	0.88	10	8.01	0.39
D-A-31A	0.9	0.04	1.5	10	8.01	0.32
D-A-35(EX)	0.9	0.08	1.5	10	8.01	0.55
D-A-34	0.9	0.38	1.5	10	8.01	2.75
Area ID	Area Composite C Value	Drainage Area (AC)	Time of Concentration (Minutes)	Time Used (Minutes)	Intensity (In/Hr)	Discharge (CFS)
DRAINAGE AREA SYSTEM D-B FREQUENCY -10YEAR						
D-B-03	0.9	0.22	1.5	10	8.01	1.6
D-B-05	0.9	0.14	1.5	10	8.01	1.04
D-B-07	0.9	0.63	1.5	10	8.01	4.56
D-B-08	0.9	0.07	1.5	10	8.01	0.53
D-B-07A	0.7	2.01	20.24	20.24	5.71	8.04
D-B-09	0.9	0.02	1.5	10	8.01	0.16
D-B-11	0.9	0.27	1.5	10	8.01	1.97
D-B-10	0.9	0.01	1.5	10	8.01	0.06
D-B-12	0.9	0.3	1.5	10	8.01	2.2
D-B-62	0.9	0.35	1.5	10	8.01	2.49
D-B-57	0.8	0.76	18.3	18.3	6.02	3.66
D-B-58	0.8	0.51	16.58	16.58	6.34	2.61
D-B-63	0.9	0.24	1.5	10	8.01	1.71
D-B-57B	0.8	1.61	19.86	19.86	5.77	7.45
D-B-59	0.8	0.62	13.47	13.47	7.02	3.5
D-B-17A	0.8	0.17	17.05	17.05	6.25	0.83
D-B-64	0.9	0.27	1.5	10	8.01	1.96
D-B-60A	0.8	0.3	13.47	13.47	7.02	1.71
D-B-22A	0.8	0.17	17.05	17.05	6.25	0.85
D-B-60	0.9	0.21	10.21	10.21	7.95	1.52
D-B-18A	0.9	0.13	12.01	12.01	7.4	0.89
D-B-60B	0.8	0.24	12.1	12.1	7.38	1.45
D-B-61A	0.8	0.23	12.1	12.1	7.38	1.33
D-B-25	0.78	0.24	1.45	10	8.01	1.51
D-B-24	0.87	0.31	22	22	5.45	1.47
D-B-25A	0.87	0.25	22	22	5.45	1.19
D-B-28	0.9	0.54	1.5	10	8.01	3.86
D-B-47	0.9	0.4	1.5	10	8.01	2.91
D-B-31	0.9	0.17	1.5	10	8.01	1.23
D-B-30	0.9	0.31	1.5	10	8.01	2.24
D-B-48	0.9	0.11	1.5	10	8.01	0.77
D-B-33	0.9	0.02	1.5	10	8.01	0.18
D-B-50	0.9	0.13	1.5	10	8.01	0.94
D-B-51	0.9	0.43	1.5	10	8.01	3.1
D-B-31A	0.9	0.15	1.5	10	8.01	1.1
D-B-34	0.9	0.33	1.5	10	8.01	2.39
D-B-35	0.9	0.14	1.5	10	8.01	1.04
D-B-53	0.9	0.24	1.5	10	8.01	1.7
D-B-54	0.9	0.33	1.5	10	8.01	2.35
D-B-36A	0.85	0.15	22	22	5.45	0.72
D-B-38	0.9	0.03	1.5	10	8.01	0.22
D-B-41	0.9	0.17	1.5	10	8.01	1.22
D-B-39	0.9	0.08	1.5	10	8.01	0.56
D-B-42	0.9	0.05	1.5	10	8.01	0.37
D-B-40	0.9	0.19	1.5	10	8.01	1.35

NO.	ISSUE RECORD DESCRIPTION	DATE
1	RFC	10/10/2013
1	NDC 00009	10/10/2013
2	NDC 00023	11/06/2013
3	NDC 00049	12/20/2013
4	NDC 00064	03/04/2014
5	NDC 00088	04/23/2014



Pegasus Link Constructors,LLC

AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

Area ID	Area Composite C Value	Drainage Area (AC)	Time of Concentration (Minutes)	Time Used (Minutes)	Intensity (In/Hr)	Discharge (CFS)
DRAINAGE AREA SYSTEM D-C FREQUENCY -10YEAR						
D-C-02	0.75	1.13	22	22	5.45	4.6
D-C-05	0.73	1.52	22	22	5.45	6.11
D-C-04	0.9	0.3	1.5	10	8.01	2.13
D-C-06	0.74	1.33	22	22	5.45	5.37
D-C-08	0.9	0.51	1.5	10	8.01	3.66
D-C-10	0.7	1.18	22	22	5.45	4.5

Area ID	Area Composite C Value	Drainage Area (AC)	Time of Concentration (Minutes)	Time Used (Minutes)	Intensity (In/Hr)	Discharge (CFS)	REMARKS
D-A-03	0.9	0.3	1.5	10	6.89	1.88	Frontage Rd
D-A-36	0.9	0.34	1.5	10	6.89	2.13	
D-A-06	0.9	0.15	1.5	10	6.89	0.92	
D-A-08	0.82	0.43	1.5	10	6.89	2.43	Frontage Rd
D-A-38	0.9	0.17	1.5	10	6.89	1.05	
D-A-09	0.9	0.17	1.5	10	6.89	1.05	Frontage Rd
D-A-40	0.9	0.53	1.5	10	6.89	3.26	
D-A-11A	0.9	0.07	2	10	6.89	0.43	
D-A-10	0.9	0.15	1.5	10	6.89	0.91	
D-A-42	0.9	0.27	1.5	10	6.89	1.68	Frontage Rd
D-A-11	0.9	0.1	2	10	6.89	0.64	
D-A-44	0.9	0.22	1.5	10	6.89	1.35	
D-A-13	0.9	0.27	1.5	10	6.89	1.69	Frontage Rd
D-A-12	0.9	0.29	1.5	10	6.89	1.78	
D-A-46	0.9	0.45	1.5	10	6.89	2.82	
D-A-14	0.75	0.26	1.5	10	6.89	1.33	Frontage Rd
D-A-14-A	0.7	0.11	1.5	10	6.89	0.53	Frontage Rd
D-A-15	0.79	0.6	12.01	12.01	6.36	2.81	Frontage Rd
D-A-17	0.76	0.21	1.5	10	6.89	1.11	Frontage Rd
D-A-18	0.75	0.49	1.5	10	6.89	2.53	Frontage Rd
D-A-19	0.9	0.39	1.5	10	6.89	2.41	Frontage Rd
D-A-20	0.77	0.19	1.5	10	6.89	1	Frontage Rd
D-A-22	0.7	0.14	1.5	10	6.89	0.67	
D-A-24	0.85	0.18	1.5	10	6.89	1.08	
D-A-23A	0.9	0.09	1.5	10	6.89	0.56	
D-A-26	0.9	0.14	1.5	10	6.89	0.89	
D-A-26A	0.9	0.32	1.5	10	6.89	2	
D-A-27A	0.9	0.13	1.5	10	6.89	0.79	
D-A-28A	0.9	0.02	1.5	10	6.89	0.13	
D-A-29A	0.9	0.14	1.5	10	6.89	0.85	
D-A-30A	0.9	0.12	1.5	10	6.89	0.73	
D-A-30B	0.9	0.05	0.88	10	6.89	0.34	
D-A-31A	0.9	0.04	1.5	10	6.89	0.27	
D-A-35(EX)	0.9	0.08	1.5	10	6.89	0.48	
D-A-34	0.9	0.38	1.5	10	6.89	2.36	

Area ID	Area Composite C Value	Drainage Area (AC)	Time of Concentration (Minutes)	Time Used (Minutes)	Intensity (In/Hr)	Discharge (CFS)
DRAINAGE AREA SYSTEM D-C FREQUENCY -5YEAR						
D-C-02	0.75	1.13	22	22	4.67	3.94
D-C-05	0.73	1.52	22	22	4.67	5.23
D-C-04	0.9	0.3	1.5	10	6.89	1.83
D-C-06	0.74	1.33	22	22	4.67	4.6
D-C-08	0.9	0.51	1.5	10	6.89	3.15
D-C-10	0.7	1.18	22	22	4.67	3.86

Area ID	STREET NAME	Area Composite C	Drainage Area(AC)	Time of Concentration	Intensity (in/Hr)	Dicharge (CFS)
D-B-46	SABINE	0.79	6.6	10	6.9	36.0
	5TH STREET	0.79	10.7	15	5.7	48.2
	6TH STREET	0.79	35	15	5.7	157.6
D-A-24A	6TH STREET	0.8	2	10	6.9	11.0
D-A-29B	DALE	0.9	0.5	10	6.9	3.1
D-A-28C	SEVENTH	0.9	1.6	10	6.9	9.9
D-A-32	8TH STREET	0.9	2.8	10	6.9	17.4
D-B-23	COMAL ST	0.79	15.8	15	5.7	71.1
D-B-61	N COLORADO	0.79	3.6	10	6.9	19.6
D-A-16A	5TH ST	0.8	5.0	10	6.9	27.60

Area ID	STREET NAME	Area Composite C	Drainage Area(AC)	Time of Concentration	Intensity (in/Hr)	Dicharge (CFS)
D-B-46	FREEWAY	0.85	10.58	15	6.7	60.1
D-B-37		0.9	0.3	10	8	2.2
D-B-44		0.9	0.6	10	8	4.3

HORSESHOE PROJECT
DRAINAGE HYDRAULIC DATA
AREA REPORT

FILE NAME: 042DA4301RPT
CONTROL: ECP0DR6717
DESIGN PACKAGE: RFC
SHEET: 01 OF 01

RELEASED FOR CONSTRUCTION

By Beth Blair at 5:21 pm, May 13, 2014

Pegasus Link Constructors



P.Srilakshmi 4/23/2014

DESIGNED SP	FED. RD. DIST. NO. 6		FEDERAL AID PROJECT NO. (SEE TITLE SHEET)		HIGHWAY NO. IH 30
	DRAWN BZ	STATE	DISTRICT	COUNTY	SHEET NO.
CHECKED FG	TEXAS	DAL	DALLAS	DA4301	
APPROVED SP	CONTROL	SECTION	JOB		
	1068	04	116		

DRAINAGE INLET CONFIGURATION SYSTEM D-A
FREQUENCY - 10 YEAR

Inlet ID	Node Library Item Name	Node Station	Node Reference Chain	Node Offset (ft)	Node Elevation (ft)	Inlet Type	Inlet Profile Type	Inlet Composite Spread Slope (%)	Inlet Grate Type	Inlet Grate Length (ft)	Inlet Grate Width (ft)	Inlet Grate Area (ft^2)	Inlet Grate Perimeter (ft)	Inlet Grate Clog Area Reduction	Inlet Grate Clog Perim. Reduction
D-A-03	CI (TY 1) -08 (15-FT)	524+41.67	35NBFR1	8.00	424.79	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-A-36	CI (TY 1) -08 (15-FT)	21+89.00	COLORADO	39.56	417.09	Curb	On Grade	0.04	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-A-06	RW (RI) (1 GR)	18+88.00	RMP2	5.67	436.65	Grate	On Grade	0.04	Parallel 1 1/8	2.5	2.5	3.75	8	0.5	0.5
D-A-08	CI (TY 1) -08 (10-FT)	520+96.43	35NBFR1	2.00	414.68	Curb	Sag	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-A-38	CI (TY 1) -08 (15-FT)	22+71.00	COLORADO	20.33	413.18	Curb	On Grade	0.01	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-A-09	CI (TY 1) -08 (15-FT)	519+83.00	35NBFR1	2.00	415.38	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-A-40	RW (RI) (2 GR)	5022+82.32	35NBML	69.00	441.54	Grate	On Grade	0.06	Parallel 1 1/8	4.79	2.5	7.19	12.58	0.5	0.5
D-A-11A	CI (TY 1) -08 (10-FT)	518+44.22	35NBFR1	2.01	418.97	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-A-10	RW (RI) (1 GR)	16+91.73	RMP2	5.67	427.26	Grate	On Grade	0.04	Parallel 1 1/8	2.5	2.5	3.75	8	0.5	0.5
D-A-42	RW (RI) (1 GR)	5021+27.00	35NBML	63.20	440.87	Grate	On Grade	0.05	Parallel 1 1/8	2.5	2.5	3.75	8	0.5	0.5
D-A-11	CI (TY 1) -08 (10-FT)	517+77.08	35NBFR1	2.01	421.75	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-A-44	RW (RI) (1 GR)	5020+05.00	35NBML	58.45	440.44	Grate	On Grade	0.04	Parallel 1 1/8	2.5	2.5	3.75	8	0.5	0.5
D-A-13	CI (TY 1) -08 (15-FT)	516+82.73	35NBFR1	2.00	424.72	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-A-12	RW (RI) (2 GR)	14+79.74	RMP2	5.66	423.79	Grate	Sag	0.03	Parallel 1 1/8	4.79	2.5	7.19	12.58	0.5	0.5
D-A-46	RW (RI) (2 GR)	5019+11.67	35NBML	56.83	440.59	Grate	Sag	0.03	Parallel 1 1/8	4.79	2.5	7.19	12.58	0.5	0.5
D-A-14	CI (TY 1) -08 (15-FT)	515+18.00	35NBFR1	2.00	430.29	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-A-14-A	RW (RI) (2 GR)	11+34.51	RMP2	-31.75	437.93	Grate	Sag	0.25	Parallel 1 1/8	4.79	2.5	7.19	12.58	0.5	0.5
D-A-15	CI (TY 1) -08 (15-FT)	513+45.17	35NBFR1	2.00	439.39	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-A-17	CI (TY 1) -08 (15-FT)	511+42.08	35NBFR1	-41.00	443.16	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-A-18	CI (TY 1) -08 (15-FT)	510+88.00	35NBFR1	-44.80	443.78	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-A-19	CI (TY 1) -08 (15-FT)	11+52.00	FLEMING	-21.70	444.95	Curb	On Grade	0.05	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-A-20	CI (TY 1) -08 (10-FT)	509+88.00	35NBFR1	-28.83	447.43	Curb	On Grade	0.05	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-A-22	CGI (TY I) -08 (15-FT)	508+89.00	35NBFR1	2.00	455.46	Curb	On Grade	0.01	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-A-24	CGI (TY I) -08 (10-FT)	508+37.73	35NBFR1	2.00	459.38	Curb	On Grade	0.01	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-A-23A	CGI (TY I) -08 (5-FT)	18+57.77	RMP4	4.44	465.88	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-A-26	RGI (TY II) - 08 (10-FT)	17+56.78	RMP4	7.57	470.20	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-A-26A	DI - (TY C-2 GR) (DAL)	16+54.99	RMP4	11.39	474.30	Grate	Sag	0.08	Parallel 1 7/8	4.73	2	8.97	13.25	0.5	0.5
D-A-27A	RGI (TY II) - 08 (5-FT)	14+22.64	RMP4	8.00	471.85	Curb	Sag	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-A-28A	RGI (TY II) - 08 (5-FT)	13+79.22	RMP4	8.01	471.98	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-A-29A	RGI (TY II) - 08 (10-FT)	12+74.55	RMP4	8.00	471.79	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-A-30A	RGI (TY II) - 08 (10-FT)	11+81.34	RMP4	7.89	470.99	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-A-30B	RGI (TY II) - 08 (5-FT)	11+32.51	RMP4	6.86	470.50	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-A-31A	RGI (TY II) - 08 (10-FT)	10+88.34	RMP4	5.21	470.19	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-A-35(EX)	RGI (TY II) - 08 (5-FT)	5000+04.00	35NBML	44.18	469.45	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-A-34	DI - (TY C-2 GR) (DAL)	10+15.75	RMP4	4.88	470.00	Grate	Sag	0.1	Parallel 1 7/8	4.73	2	8.97	13.25	0.5	0.5

RELEASED FOR CONSTRUCTION

By Beth Blair at 11:01 am, Mar 26, 2014

Pegasus Link Constructors



P. Srilakshmi 3/5/14



ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
0	RFC EARLY START	08/12/2013
1	NDC 0002	08/30/2013
2	NDC 00009	10/10/2013
3	NDC 00023	11/06/2013
4	NDC 00064	03/04/2014



Pegasus Link Constructors,LLC



AECOM Technical Services, Inc.- F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
DRAINAGE HYDRAULIC DATA
INLET CONFIGURATION

FILE NAME: 042DA4401RPT
CONTROL: ECP0DR6717
DESIGN PACKAGE: RFC
SHEET: 01 OF 01

DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.			HIGHWAY NO.
DRAWN BZ	6	(SEE TITLE SHEET)			1H 30
CHECKED FG	STATE	DISTRICT	COUNTY	SHEET NO.	
APPROVED SP	TEXAS	DAL	DALLAS	DA4401	
	CONTROL	SECTION	JOB		
	1068	04	116		

DRAINAGE INLET CONFIGURATION SYSTEM D-B
FREQUENCY - 10 YEAR

Inlet ID	Node Library Item Name	Node Station	Node Reference Chain	Node Offset (ft)	Node Elevation (ft)	Inlet Type	Inlet Profile Type	Inlet Composite Spread Slope (%)	Inlet Grate Type	Inlet Grate Length (ft)	Inlet Grate Width (ft)	Inlet Grate Area (ft^2)	Inlet Grate Perimeter (ft)	Inlet Grate Clog Area Reduction	Inlet Grate Clog Perim. Reduction
		6		6											
D-B-03	RW (RI) (2 GR)	24+20.58	RMP35	-23.67	436.98	Grate	On Grade	0.02	Parallel 1 1/8	4.79	2.5	7.19	12.58	0.5	0.5
D-B-05	RW (RI) (2 GR)	23+65.00	RMP35	-23.65	436.63	Grate	Sag	0.02	Parallel 1 1/8	4.79	2.5	7.19	12.58	0.5	0.5
D-B-07	RGI (TY II) - 08 (10-FT)	5028+83.71	35SBML	10.00	448.12	Curb	On Grade	0.04	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-08	RGI (TY II) - 08 (5-FT)	22+78.52	RMP35	20.00	437.13	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-07A	DI - (TY C-2 GR) (DAL)	5027+29.81	35SBML	-69.53	409.00	Grate	Sag	0.07	Parallel 1 7/8	4.73	2	8.97	13.25	0.5	0.5
D-B-09	RGI (TY II) - 08 (5-FT)	22+99.50	RMP35	20.00	437.10	Curb	On Grade	0.01	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-11	RGI (TY II) - 08 (10-FT)	22+11.73	RMP35	20.00	437.31	Curb	On Grade	0.04	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-10	RGI (TY II) - 08 (5-FT)	23+10.00	RMP35	20.00	437.11	Curb	On Grade	0.01	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-12	DI - (TY C-2 GR) (DAL)	21+87.79	RMP35	24.75	436.74	Grate	Sag	0.09	Parallel 1 7/8	4.73	2	8.97	13.25	0.5	0.5
D-B-62	CI (TY 1) -08 (15-FT)	17+75.00	COLORADO	40.00	415.75	Curb	Sag	0.01	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-57	CGI (TY I) -08 (15-FT)	499+00.00	35SBFR1	-2.00	415.96	Curb	Sag	0.03	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-58	CI (TY 1) -08 (15-FT)	16+00.03	COLORADO	40.00	416.09	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-63	CI (TY 1) -08 (10-FT)	18+20.00	COLORADO	40.00	416.15	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-57B	CGI (TY I) -08 (15-FT)	498+67.06	35SBFR1	-1.97	416.17	Curb	On Grade	0.03	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-59	CI (TY 1) -08 (15-FT)	15+50.48	COLORADO	40.08	416.57	Curb	On Grade	0.01	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-17A	RGI (TY II) - 08 (5-FT)	18+11.46	RMP35	20.10	437.28	Curb	On Grade	0.04	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-64	CI (TY 1) -08 (10-FT)	19+23.00	COLORADO	40.00	417.91	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-60A	CI (TY 1) -08 (15-FT)	14+46.63	COLORADO	-33.61	419.67	Curb	On Grade	0.01	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-22A	RGI (TY II) - 08 (5-FT)	16+11.22	RMP35	20.01	431.11	Curb	On Grade	0.04	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-60	CI (TY 1) -08 (10-FT)	13+70.91	COLORADO	-32.92	423.89	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-18A	DI - (TY C-1 GR) (DAL)	15+95.74	RMP35	23.52	432.94	Grate	Sag	0.08	Parallel 1 7/8	2.38	2	4.5	8.54	0.5	0.5
D-B-60B	CI (TY 1) -08 (15-FT)	12+91.31	COLORADO	83.88	432.69	Curb	On Grade	0.04	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-61A	CI (TY 1) -08 (10-FT)	12+78.61	COLORADO	-32.96	429.86	Curb	On Grade	0.03	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-25	RW (RI) (2 GR)	14+55.35	RMP35	-19.53	428.05	Grate	On Grade	0.25	Parallel 1 1/8	4.79	2.5	7.19	12.58	0.5	0.5
D-B-24	CGI (TY I) -08 (10-FT)	495+09.87	35SBFR1	-2.00	423.19	Curb	On Grade	0.04	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-25A	RW (RI) (2 GR)	13+61.36	RMP35	-13.28	427.00	Grate	Sag	0.25	Parallel 1 1/8	4.79	2.5	7.19	12.58	0.5	0.5
D-B-28	RGI (TY II) - 08 (15-FT)	5019+94.20	35SBML	1.00	440.50	Curb	Sag	0.03	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-47	RGI (TY II) - 08 (10-FT)	5021+01.66	35SBML	2.80	440.83	Curb	On Grade	0.04	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-31	RGI (TY II) - 08 (10-FT)	5017+97.25	35SBML	0.99	441.95	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-30	RGI (TY II) - 08 (15-FT)	5019+05.00	35NBML	-12.02	442.70	Curb	Sag	0.03	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-48	RGI (TY II) - 08 (10-FT)	5020+65.14	35NBML	-11.83	443.70	Curb	On Grade	0.04	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-33	DI - (TY C-2 GR) (DAL)	5017+74.18	35NBML	61.71	441.29	Grate	Sag	0.03	Parallel 1 7/8	4.73	2	8.97	13.25	0.5	0.5
D-B-50	RGI (TY II) - 08 (10-FT)	5021+89.47	35NBML	-12.00	445.16	Curb	On Grade	0.05	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-51	RGI (TY II) - 08 (10-FT)	5023+03.77	35SBML	7.68	442.64	Curb	On Grade	0.06	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-31A	RGI (TY II) - 08 (10-FT)	5017+32.31	35SBML	1.00	443.02	Curb	On Grade	0.01	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-34	RGI (TY II) - 08 (10-FT)	5017+37.73	35NBML	58.00	442.38	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-35	RGI (TY II) - 08 (10-FT)	5016+88.00	35SBML	1.00	443.94	Curb	On Grade	0.01	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-53	RGI (TY II) - 08 (10-FT)	5023+28.91	35NBML	-12.00	446.77	Curb	On Grade	0.06	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-54	RGI (TY II) - 08 (10-FT)	5024+66.00	35SBML	10.00	444.24	Curb	On Grade	0.06	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-36A	RGI (TY II) - 08 (10-FT)	5016+00.41	35NBML	58.01	445.44	Curb	On Grade	0.01	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-38	RGI (TY II) - 08 (5-FT)	5014+29.47	35NBML	-1.76	450.55	Curb	On Grade	0.01	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-41	CI (TY 1) -08 (10-FT)	5014+50.00	35SBML	-44.65	450.27	Curb	On Grade	0.01	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-39	RGI (TY II) - 08 (10-FT)	5014+05.00	35NBML	-1.52	451.26	Curb	On Grade	0.01	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-42	CI (TY 1) -08 (10-FT)	5014+90.00	35SBML	-46.45	449.27	Curb	On Grade	0.01	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-B-40	RGI (TY II) - 08 (10-FT)	5013+34.00	35NBML	-1.09	453.31	Curb	On Grade	0.01	n/a	n/a	n/a	n/a	n/a	n/a	n/a

RELEASED FOR CONSTRUCTION

By Beth Blair at 3:22 pm, Aug 27, 2014

Pegasus Link Constructors



P. Srilakshmi 7/24/2014



ISSUE RECORD		
NO.	DESCRIPTION	DATE
1	NDC 00023	11/06/2013
2	NDC 00082	04/21/2014
3	NDC 00088	04/23/2014
4	NDC 00101	05/23/2014
5	NDC 00115	06/23/2014
6	NDC 00130	07/24/2014



Pegasus Link Constructors, LLC



AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
DRAINAGE HYDRAULIC DATA
INLET CONFIGURATION

FILE NAME:
042DA4402RPT
CONTROL:
ECP0DR6717
DESIGN PACKAGE:
RFC
SHEET:
01 OF 01

DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.			HIGHWAY NO.
6	(SEE TITLE SHEET)	1H 30			
DRAWN BZ	STATE	DISTRICT	COUNTY	SHEET NO.	
SV	TEXAS	DAL	DALLAS	DA4402	
CHECKED SV	CONTROL	SECTION	JOB		
SV	1068	04	116		

DRAINAGE INLET CONFIGURATION SYSTEM D-C
FREQUENCY -5YEAR

Inlet ID	Node Library Item Name	Node Station	Node Reference Chain	Node Offset (ft)	Node Elevation (ft)	Inlet Type	Inlet Profile Type	Inlet Composite Spread Slope (%)	Inlet Grate Type	Inlet Grate Length (ft)	Inlet Grate Width (ft)	Inlet Grate Area (ft^2)	Inlet Grate Perimeter (ft)	Inlet Grate Clog Area Reduction	Inlet Grate Clog Perim. Reduction
D-C-02	DI- (TY C-2 GR) (DAL)	505+47.71	35SBFR1	-36.04	406.31	Grate	Sag	0.08	Parallel 1 7/8	4.73	2	8.97	13.25	0.5	0.5
D-C-05	DI- (TY C-2 GR) (DAL)	503+38.65	35SBFR1	-39.64	409.34	Grate	Sag	0.08	Parallel 1 7/8	4.73	2	8.97	13.25	0.5	0.5
D-C-04	RW (RI) (2 GR)	504+79.41	35SBFR1	-18.23	429.72	Grate	On Grade	0.02	Parallel 1 1/8	4.79	2.5	7.19	12.58	0.5	0.5
D-C-06	DI- (TY C-2 GR) (DAL)	501+23.67	35SBFR1	-34.03	411.56	Grate	Sag	0.08	Parallel 1 7/8	4.73	2	8.97	13.25	0.5	0.5
D-C-08	CGI (TY I) -08 (15-FT)	500+98.08	35SBFR1	-32.26	416.10	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
D-C-10	DI- (TY C-2 GR) (DAL)	15+00.00	COLORADO	-68.18	414.99	Grate	Sag	0.12	Parallel 1 7/8	4.73	2	8.97	13.25	0.5	0.5

RELEASED FOR CONSTRUCTION

By Alyssa Moss at 12:23 pm, Sep 09, 2014

Pegasus Link Constructors



Texas Department of Transportation
© 2014

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
O	RFC	10/10/2013
1	NDC 00142	08/25/2014



Pegasus Link Constructors,LLC



AECOM Technical Services, Inc.- F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
DRAINAGE HYDRAULIC DATA
INLET CONFIGURATION

FILE NAME: 042DA4403RPT	DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.			HIGHWAY NO.
	DRAWN BZ	6	(SEE TITLE SHEET)			IH 30
CONTROL: ECP0DR6717	CHECKED SV	STATE	DISTRICT	COUNTY	SHEET NO.	
DESIGN PACKAGE: RFC	APPROVED SP	TEXAS	DAL	DALLAS	DA4403	
SHEET: 01 OF 01		CONTROL	SECTION	JOB		
		1068	04	116		

PWD CSS
042da4501c1c.dgn

DRAINAGE INLET HYDRAULICS SYSTEM D-A FREQUENCY -10YEAR																
Inlet ID	Inlet Type	Inlet Profile Type	Node Station	Inlet Discharge (CFS)	Inlet Capacity (CFS)	Inlet By Pass Flow Into (CFS)	Inlet By Pass Flow (CFS)	Inlet By Pass Node ID	Inlet Computed Pondered Width (ft)	Inlet Max Pondered Width (ft)	Inlet Computed Pondered Depth (ft)	Inlet Max Pondered Depth (ft)	Longitudinal Slope (%)	Node Junction Loss (ft)	Inlet Spread Manning's N Value	
D-A-03	Curb	On Grade	524+41.67	2.19	2.05	0	0.14	D-A-36	6.83	20	0.14	0.40	5.65	0.01	0.015	
D-A-36	Curb	On Grade	21+89.00	2.61	2.59	0.14	0.03	D-A-38	5.46	13	0.19	0.46	4.15	0.01	0.015	
D-A-06	Grate	On Grade	18+88.00	1.07	1.05	0	0.02	D-A-10	3.30	8	0.14	0.33	5.99	0	0.015	
D-A-08	Curb	Sag	520+96.43	2.83	4.70	0	0		9.26	13	0.19	0.26	n/a	0.12	0.015	
D-A-38	Curb	On Grade	22+71.00	1.25	1.07	0.03	0.18		12.67	13	0.06	0.07	7.02	0	0.015	
D-A-09	Curb	On Grade	519+83.00	1.23	1.23	0	0	D-A-08	7.05	13	0.14	0.32	1.5	0.82	0.015	
D-A-40	Grate	On Grade	5022+82.32	3.79	3.42	0	0.38	D-A-42	5.88	10	0.34	0.70	1.08	0.02	0.015	
D-A-11A	Curb	On Grade	518+44.22	0.50	0.50	0	0		4.27	16	0.09	0.32	3.67	0.08	0.015	
D-A-10	Grate	On Grade	16+91.73	1.08	1.03	0.02	0.05	D-A-12	3.71	8	0.15	0.33	3.26	0	0.015	
D-A-42	Grate	On Grade	5021+27.00	2.33	1.97	0.38	0.36	D-A-44	5.56	10	0.26	0.57	1.08	0.01	0.015	
D-A-11	Curb	On Grade	517+77.08	0.75	0.74	0	0	D-A-11A	4.83	13	0.1	0.32	4.21	0.12	0.015	
D-A-44	Grate	On Grade	5020+05.00	1.93	1.56	0.36	0.37	D-A-46	6.52	10	0.25	0.45	0.68	0	0.015	
D-A-13	Curb	On Grade	516+82.73	2.18	2.18	0.22	0	D-A-11	8.19	13	0.16	0.26	2.14	0.02	0.015	
D-A-12	Grate	Sag	14+79.74	2.12	2.78	0.05	0		6.65	8	0.23	0.27	n/a	0.01	0.015	
D-A-46	Grate	Sag	5019+11.67	3.65	4.35	0.37	0		7.56	10	0.33	0.37	n/a	0.02	0.015	
D-A-14	Curb	On Grade	515+18.00	2.61	2.40	0.45	0.05	D-A-13	7.57	13	0.15	0.26	4.66	0.08	0.015	
D-A-14-A	Grate	Sag	11+34.51	0.61	6.87	0	0		1.20	4.08	0.1	0.50	n/a	0	0.015	
D-A-15	Curb	On Grade	513+45.17	3.35	2.90	0	0.45	D-A-14	8.47	13	0.12	0.26	4.23	0.02	0.015	
D-A-17	Curb	On Grade	511+42.08	1.40	1.40	0.11	0	D-A-15	7.21	16	0.14	0.32	1.75	0.61	0.015	
D-A-18	Curb	On Grade	510+88.00	2.98	2.87	0.03	0.11	D-A-17	8.32	16	0.18	0.38	2.59	0.6	0.015	
D-A-19	Curb	On Grade	11+52.00	2.81	2.81	0	0	D-A-18	6.57	16	0.31	0.75	0.67	0.55	0.015	
D-A-20	Curb	On Grade	509+88.00	1.21	1.17	0.05	0.03	D-A-18	3.23	16	0.15	0.74	5.64	0.49	0.015	
D-A-22	Curb	On Grade	508+89.00	1.13	1.08	0.35	0.05	D-A-20	8.01	13	0.08	0.12	7.82	0	0.015	
D-A-24	Curb	On Grade	508+37.73	1.47	1.13	0.22	0.35	D-A-22	7.11	13	0.1	0.14	6.87	0.18	0.015	
D-A-23A	Curb	On Grade	18+57.77	0.70	0.48	0.05	0.22	D-A-24	4.56	4.7	0.09	0.09	5.05	0	0.015	
D-A-26	Curb	On Grade	17+56.78	1.04	0.99	0	0.05	D-A-23A	5.61	7.5	0.11	0.16	3.65	0	0.015	
D-A-26A	Grate	Sag	16+54.99	2.33	7.23	0	0		2.94	4.08	0.23	0.50	n/a	0.01	0.015	
D-A-27A	Curb	Sag	14+22.64	0.92	1.66	0	0		6.94	8	0.11	0.16	n/a	0	0.015	
D-A-28A	Curb	On Grade	13+79.22	0.16	0.16	0	0	D-A-29A	4.60	8	0.08	0.04	0.35	0	0.015	
D-A-29A	Curb	On Grade	12+74.55	0.99	0.99	0	0	D-A-30A	7.74	8	0.14	0.14	0.94	0.12	0.015	
D-A-30A	Curb	On Grade	11+81.34	0.85	0.85	0	0	D-A-30B	7.24	8	0.12	0.14	1.05	0	0.015	
D-A-30B	Curb	On Grade	11+32.51	0.39	0.39	0	0	D-A-31A	5.76	7	0.1	0.13	0.67	0	0.015	
D-A-31A	Curb	On Grade	10+88.34	0.32	0.32	0	0	D-A-35	5.18	5.22	0.08	0.08	1.09	0	0.015	
D-A-35	Curb	On Grade	5000+04.00	0.55	0.52	0	0.03		6.01	8	0.11	0.15	0.92	0	0.015	
D-A-34	Grate	Sag	10+15.75	2.75	7.23	0	0		2.55	4.08	0.26	0.50	n/a	0.01	0.015	
DRAINAGE INLET HYDRAULICS SYSTEM D-A FREQUENCY -5YEAR																
Inlet ID	Inlet Type	Inlet Profile Type	Node Station	Inlet Discharge (CFS)	Inlet Capacity (CFS)	Inlet By Pass Flow Into (CFS)	Inlet By Pass Flow (CFS)	Inlet By Pass Node ID	Inlet Computed Pondered Width (ft)	Inlet Max Pondered Width (ft)	Inlet Computed Pondered Depth (ft)	Inlet Max Pondered Depth (ft)	Longitudinal Slope (%)	Node Junction Loss (ft)	Inlet Spread Manning's N Value	Remarks
D-A-03	Curb	On Grade	524+41.67	1.88	1.81	0	0.06	D-A-36	6.46	20	0.13	0.40	5.65	0.01	0.015	Frontage Rd
D-A-36	Curb	On Grade	21+89.00	2.19	2.19	0.06	0	D-A-38	5.11	13	0.18	0.46	4.15	0.01	0.015	
D-A-06	Grate	On Grade	18+88.00	0.92	0.91	0	0.01	D-A-10	3.12	8	0.13	0.33	5.99	0	0.015	
D-A-08	Curb	Sag	520+96.43	2.43	4.70	0	0		8.37	13	0.17	0.26	n/a	0.11	0.015	Frontage Rd
D-A-38	Curb	On Grade	22+71.00	1.05	0.95	0	0.1		11.87	13	0.06	0.07	7.02	0	0.015	
D-A-09	Curb	On Grade	519+83.00	1.05	1.05	0	0	D-A-08	6.66	13	0.13	0.32	1.5	0.73	0.015	Frontage Rd
D-A-40	Grate	On Grade	5022+82.32	3.26	2.98	0	0.28	D-A-42	5.55	10	0.32	0.70	1.08	0.01	0.015	
D-A-11A	Curb	On Grade	518+44.22	0.43	0.43	0	0		4.03	16	0.08	0.32	3.67	0.07	0.015	
D-A-10	Grate	On Grade	16+91.73	0.92	0.89	0.01	0.03	D-A-12	3.49	8	0.14	0.33	3.26	0	0.015	
D-A-42	Grate	On Grade	5021+27.00	1.96	1.70	0.28	0.25	D-A-44	5.21	10	0.25	0.57	1.08	0	0.015	Frontage Rd
D-A-11	Curb	On Grade	517+77.08	0.64	0.64	0	0	D-A-11A	4.56	13	0.09	0.32	4.21	0.1	0.015	
D-A-44	Grate	On Grade	5020+05.00	1.61	1.34	0.25	0.27	D-A-46	6.08	10	0.23	0.45	0.68	0	0.015	
D-A-13	Curb	On Grade	516+82.73	1.76	1.76	0.07	0	D-A-11	7.56	13	0.15	0.26	2.14	0.02	0.015	Frontage Rd
D-A-12	Grate	Sag	14+79.74	1.81	2.78	0.03	0		5.98	8	0.21	0.27	n/a	0.01	0.015	
D-A-46	Grate	Sag	5019+11.67	3.08	4.35	0.27	0		7.10	10	0.29	0.37	n/a	0.01	0.015	
D-A-14	Curb	On Grade	515+18.00	2.07	2.00	0.32	0	D-A-13	6.94	13	0.14	0.26	4.66	0.07	0.015	Frontage Rd
D-A-14-A	Grate	Sag	11+34.51	0.53	6.87	0	0		1.14	4.08	0.09	0.50	n/a	0	0.015	Frontage Rd
D-A-15	Curb	On Grade	513+45.17	3.03	2.70	0	0.32	D-A-14	8.15	13	0.16	0.26	4.23	0.02	0.015	Frontage Rd
D-A-17	Curb	On Grade	511+42.08	1.14	1.14	0.03	0	D-A-15	6.67	16	0.13	0.32	1.75	0.56	0.015	Frontage Rd
D-A-18	Curb	On Grade	510+88.00	2.54	2.5											

DRAINAGE INLET HYDRAULICS SYSTEM D-B
FREQUENCY - 10 YEAR

Inlet ID	Inlet Type	Inlet Profile Type	Node Station	Inlet Discharge (CFS)	Inlet Capacity (CFS)	Inlet By Pass Flow Into (CFS)	Inlet By Pass Flow (CFS)	Inlet By Pass Node ID	Inlet Computed Pondered Width (ft)	Inlet Max Pondered Width (ft)	Inlet Computed Pondered Depth (ft)	Inlet Max Pondered Depth (ft)	Inlet Longitudinal Slope (%)	Node Junction Loss (ft)	Inlet Spread Manning's N Value
D-B-03	Grate	On Grade	24+20.58	1.60	1.30	0	0.3	D-B-05	8.03	26	0.16	0.52	1.28	0	0.015
D-B-05	Grate	Sag	23+65.00	1.34	7.28	0.3	0		8.41	26	0.17	0.52	n/a	0	0.015
D-B-07	Curb	On Grade	5028+83.71	4.56	4.32	0	0.24	D-B-07A	9.61	10	0.36	0.44	0.5	0.03	0.015
D-B-08	Curb	On Grade	22+78.52	0.53	0.50	0	0.04	D-B-09	5.83	6	0.11	0.11	1.06	0.03	0.015
D-B-07A	Grate	Sag	5027+29.81	8.28	20.45	0.24	0		8.37	12	0.55	1.00	n/a	0.11	0.015
D-B-09	Curb	On Grade	22+99.50	0.20	0.20	0.04	0	D-B-10	6.30	8	0.06	0.06	0.8	0	0.015
D-B-11	Curb	On Grade	22+11.73	1.97	1.97	0	0	D-B-05	5.45	6	0.24	0.27	1.06	0.01	0.015
D-B-10	Curb	On Grade	23+10.00	0.06	0.06	0	0	D-B-05	5.97	8	0.03	0.03	0.64	0	0.015
D-B-12	Grate	Sag	21+87.79	2.20	7.23	0	0		2.47	4.08	0.23	0.50	n/a	0.01	0.015
D-B-62	Curb	Sag	17+75.00	2.78	16.59	0.29	0		11.90	14	0.15	0.50	n/a	0.01	0.015
D-B-57	Curb	Sag	499+00.00	0.32	9.72	0.31	0		4.12	13	0.04	0.35	n/a	0.02	0.015
D-B-58	Curb	On Grade	16+00.03	3.03	3.03	0.42	0	D-B-62	11.95	14	0.24	0.28	0.55	0.18	0.015
D-B-63	Curb	On Grade	18+20.00	1.89	1.74	0.17	0.15	D-B-62	8.04	16	0.16	0.32	1.76	0.01	0.015
D-B-57B	Curb	On Grade	498+67.06	7.45	7.14	0	0.31	D-B-57	12.95	13	0.38	0.38	0.59	0.08	0.015
D-B-59	Curb	On Grade	15+50.48	3.74	3.32	0.24	0.42	D-B-58	13.21	14	0.18	0.20	1.61	0.33	0.015
D-B-17A	Curb	On Grade	18+11.46	0.83	0.64	0	0.19	D-B-22A	3.20	6	0.14	0.31	3.17	0	0.015
D-B-64	Curb	On Grade	19+23.00	1.96	1.78	0	0.17	D-B-63	8.15	16	0.16	0.32	1.76	0.01	0.015
D-B-60A	Curb	On Grade	14+46.63	2.02	1.79	0.32	0.24	D-B-59	10.74	14	0.11	0.28	4.4	0.48	0.015
D-B-22A	Curb	On Grade	16+11.22	1.03	0.75	0.19	0.28	D-B-25	3.50	6	0.16	0.27	3.08	0	0.015
D-B-60	Curb	On Grade	13+70.91	1.63	1.31	0.11	0.32	D-B-60A	5.80	12	0.12	0.24	6.43	0.06	0.015
D-B-18A	Grate	Sag	16+06.91	0.89	12.10	0	0		2.08	12	0.17	1.00	n/a	0	0.015
D-B-60B	Curb	On Grade	12+91.31	1.45	1.45	0	0		4.12	12	0.16	0.48	3.65	0	0.015
D-B-61A	Curb	On Grade	12+78.61	1.33	1.22	0	0.11	D-B-60	4.92	12	0.13	0.31	5.01	0	0.015
D-B-25	Grate	On Grade	14+55.35	1.79	1.79	0.28	0		1.84	10	0.46	0.50	0.9	0	0.015
D-B-24	Curb	On Grade	495+09.87	1.85	1.77	0	0.08	D-B-57	8.50	13	0.17	0.55	1.27	0	0.015
D-B-25A	Grate	Sag	13+61.36	0.91	6.87	0	0		1.46	12	0.13	0.50	n/a	0	0.015
D-B-28	Curb	Sag	5019+94.20	3.92	9.03	0.06	0		7.53	10	0.19	0.32	n/a	0.67	0.015
D-B-47	Curb	On Grade	5021+01.66	2.94	2.91	0.04	0.03	D-B-28	7.14	10	0.29	0.41	0.77	0.15	0.015
D-B-31	Curb	On Grade	5017+97.25	1.37	1.34	0.14	0.03	D-B-28	8.01	10	0.14	0.17	1.44	0.12	0.015
D-B-30	Curb	Sag	5019+05.00	2.24	8.21	0	0		6.36	10	0.13	0.30	n/a	0.01	0.015
D-B-48	Curb	On Grade	5020+65.14	0.77	0.77	0	0	D-B-30	3.94	10	0.17	0.42	1.08	0	0.015
D-B-33	Grate	Sag	5017+74.18	0.18	7.23	0	0		1.70	4.08	0.04	0.50	n/a	0	0.015
D-B-50	Curb	On Grade	5021+89.47	0.94	0.94	0	0	D-B-48	3.75	10	0.19	0.52	1.08	0	0.015
D-B-51	Curb	On Grade	5023+03.77	3.10	3.07	0	0.04	D-B-47	5.59	10	0.31	0.56	1.09	0.02	0.015
D-B-31A	Curb	On Grade	5017+32.31	1.10	1.06	0	0.04	D-B-31	8.57	10	0.11	0.13	1.91	0.02	0.015
D-B-34	Curb	On Grade	5017+37.73	2.42	2.11	0.03	0.31	D-A-49	9.92	10	0.18	0.18	1.27	0.01	0.015
D-B-35	Curb	On Grade	5016+88.00	1.08	0.99	0.04	0.1	D-B-31	9.96	10	0.09	0.10	2.23	0.14	0.015
D-B-53	Curb	On Grade	5023+28.91	1.70	1.70	0	0	D-B-50	4.27	10	0.26	0.59	1.08	0	0.015
D-B-54	Curb	On Grade	5024+66.00	2.35	2.35	0	0	D-B-51	4.86	10	0.29	0.59	1.09	0.01	0.015
D-B-36A	Curb	On Grade	5016+00.41	0.72	0.68	0	0.03	D-B-34	9.65	10	0.07	0.07	2.67	0	0.015
D-B-38	Curb	On Grade	5014+29.47	0.24	0.21	0.01	0.02	D-B-35	6.40	10	0.05	0.05	2.9	0.01	0.015
D-B-41	Curb	On Grade	5014+50.00	1.19	1.14	0.05	0.05	D-B-42	6.30	10	0.12	0.09	2.97	0.06	0.015
D-B-39	Curb	On Grade	5014+05.00	0.69	0.68	0.13	0.01	D-B-38	7.96	10	0.08	0.07	2.9	0	0.015
D-B-42	Curb	On Grade	5014+90.00	0.42	0.42	0.05	0	D-B-35	5.10	10	0.07	0.14	2.97	0	0.015
D-B-40	Curb	On Grade	5013+34.00	1.35	1.22	0	0.13	D-B-39	7.21	10	0.12	0.13	2.9	0	0.015

RELEASED FOR CONSTRUCTION

By Beth Blair at 3:22 pm, Aug 27, 2014

Pegasus Link Constructors



P. Srilakshmi 7/29/2014

Texas Department of Transportation
© 2014

ISSUE RECORD		
NO.	DESCRIPTION	DATE
C	FINAL	09/09/2013
0	RFC	10/10/2013
1	NDC 00088	04/23/2014
2	NDC 00101	05/23/2014
3	NDC 00115	06/23/2014
4	NDC 00130	07/24/2014



Pegasus Link Constructors, LLC



AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
DRAINAGE HYDRAULIC DATA
INLET HYDRAULICS

FILE NAME:
042DA4502CLC
CONTROL:
ECP0DR6717
DESIGN PACKAGE:
RFC
SHEET:
01 OF 01

DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.			HIGHWAY NO.
		6	(SEE TITLE SHEET)		IH 30
DRAWN BZ	STATE	DISTRICT	COUNTY		SHEET NO.
		TEXAS	DAL	DALLAS	
CHECKED SV	CONTROL	SECTION		JOB	DA4502
		1068	04	116	
APPROVED SV					

042da4503c1c.dgn
P:\DWGCS\

DRAINAGE INLET HYDRAULICS SYSTEM D-C
FREQUENCY -10YEAR

Inlet ID	Inlet Type	Inlet Profile Type	Node Station	Inlet Discharge (CFS)	Inlet Capacity (CFS)	Inlet By Pass Flow Into (CFS)	Inlet By Pass Flow (CFS)	Inlet By Pass Node ID	Inlet Computed Poned Width (ft)	Inlet Max Poned Width (ft)	Inlet Computed Poned Depth (ft)	Inlet Max Poned Depth (ft)	Inlet Longitudinal Slope (%)	Node Junction Loss (ft)	Inlet Spread Manning's N Value
D-C-02	Grate	Sag	505+47.71	4.60	7.23	0	0		5.69	7	0.37	0.50	n/a	0.1	0.015
D-C-05	Grate	Sag	503+38.65	6.11	20.45	0	0		7.74	12	0.45	1.00	n/a	0.14	0.015
D-C-04	Grate	On Grade	504+79.41	2.13	1.65	0	0.48	D-C-08	6.95	16	0.14	0.32	4.92	0	0.015
D-C-06	Grate	Sag	501+23.67	5.37	7.23	0	0		5.02	6	0.41	0.50	n/a	0.13	0.015
D-C-08	Curb	On Grade	500+98.08	4.15	4.01	0.48	0.14	D-B-62	12.00	16	0.24	0.32	1.01	0.03	0.015
D-C-10	Grate	Sag	15+00.00	4.50	20.45	0	0		3.92	12	0.36	1.00	n/a	0.03	0.015

DRAINAGE INLET HYDRAULICS SYSTEM D-C FREQUENCY -5YEAR

Inlet ID	Inlet Type	Inlet Profile Type	Node Station	Inlet Discharge (CFS)	Inlet Capacity (CFS)	Inlet By Pass Flow Into (CFS)	Inlet By Pass Flow (CFS)	Inlet By Pass Node ID	Inlet Computed Poned Width (ft)	Inlet Max Poned Width (ft)	Inlet Computed Poned Depth (ft)	Inlet Max Poned Depth (ft)	Inlet Longitudinal Slope (%)	Node Junction Loss (ft)	Inlet Spread Manning's N Value
D-C-02	Grate	Sag	505+47.71	3.94	7.23	0	0		5.37	7	0.33	0.50	n/a	0.07	0.015
D-C-05	Grate	Sag	503+38.65	5.23	20.45	0	0		7.31	12	0.4	1.00	n/a	0.1	0.015
D-C-04	Grate	On Grade	504+79.41	1.83	1.46	0	0.37	D-C-08	6.57	16	0.13	0.32	4.92	0	0.015
D-C-06	Grate	Sag	501+23.67	4.60	7.23	0	0		6.12	6	0.37	0.50	n/a	0.1	0.015
D-C-08	Curb	On Grade	500+98.08	3.52	3.49	0.37	0.03	D-B-62	11.29	16	0.23	0.32	1.01	0.02	0.015
D-C-10	Grate	Sag	15+00.00	3.86	20.45	0	0		3.70	12	0.33	1.00	n/a	0.02	0.015

RELEASED FOR CONSTRUCTION

By Alyssa Moss at 12:23 pm, Sep 09, 2014

Pegasus Link Constructors



Texas Department of Transportation
© 2014

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
O	RFC	10/10/2013
1	NDC 00142	08/25/2014



Pegasus Link Constructors,LLC

AECOM

AECOM Technical Services, Inc.- F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
DRAINAGE HYDRAULIC DATA
INLET HYDRAULICS

FILE NAME: 042DA4503CLC	DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.			HIGHWAY NO.
	DRAWN BZ	6	(SEE TITLE SHEET)			IH 30
CONTROL: ECP0DR6717	CHECKED SV	STATE	DISTRICT	COUNTY	SHEET NO.	
DESIGN PACKAGE: RFC	APPROVED SP	TEXAS	DAL	DALLAS	DA4503	
SHEET: 01 OF 01		CONTROL	SECTION	JOB		
		1068	04	116		

8/18/2014 8:46:54 PM
p1et-drvm.plt
\\p\dwgcs\p\dwgcs\w\K\29636\19805_181\042da4503c1c.dgn

Link ID	Link Type	Link Upstream Node	Link Downstream Node	Link Shape	Link Material	Link Number of Barrels	Link Actual Length (ft)	Link Hydraulic Length (ft)	Link Manning's N Value	Link Slope (%)	Link Rise (ft)	Link Span (ft)	Link Soffit Upstream (ft)	Link Soffit Downstream (ft)	Link Invert Upstream (ft)	Link Invert Downstream (ft)
DRAINAGE LINK CONFIGURATION SYSTEM D-A FREQUENCY - 10 YEAR																
D-A-02A	Pipe	D-A-02A	D-A-01	Circular	Concrete	1	28.45	30.95	0.012	0.9	4	n/a	391.20	390.92	387.20	386.92
D-A-02	Pipe	D-A-02	D-A-02A	Circular	Concrete	1	227.87	232.87	0.012	0.7	4	n/a	408.63	407.00	404.63	403.00
D-A-04	Pipe	D-A-04	D-A-02	Circular	Concrete	1	141.08	145.75	0.012	0.7	4	n/a	409.65	408.63	405.65	404.63
LAT D-A-03	Pipe	D-A-03	D-A-02	Circular	Concrete	1	25.53	29.28	0.012	9.11	2	n/a	417.00	414.33	415.00	412.33
D-A-05	Pipe	D-A-05	D-A-04	Circular	Concrete	1	128.71	130.88	0.012	0.75	4	n/a	410.63	409.65	406.63	405.65
LAT D-A-36	Pipe	D-A-36	D-A-04	Circular	Concrete	1	22.09	25.51	0.012	2.33	2	n/a	409.35	408.75	407.35	406.75
D-A-07	Pipe	D-A-07	D-A-05	Circular	Concrete	1	28.79	31.29	0.012	0.75	4	n/a	410.86	410.63	406.86	406.63
LAT D-A-06	Pipe	D-A-06	D-A-05	Circular	Concrete	1	59.00	60.75	0.012	9	2	n/a	414.47	409.00	412.47	407.00
LAT D-A-37	Pipe	D-A-37	D-A-36	Circular	Concrete	1	5.10	6.35	0.012	0.4	2	n/a	409.37	409.34	407.37	407.34
D-A-08	Pipe	D-A-08	D-A-07	Circular	Concrete	1	40.71	45.71	0.012	0.75	4	n/a	411.21	410.86	407.21	406.86
LAT D-A-39	Pipe	D-A-39	D-A-07	Circular	Concrete	1	76.03	80.03	0.012	2.5	2.5	n/a	412.50	410.50	410.00	408.00
LAT D-A-38	Pipe	D-A-38	D-A-37	Circular	Concrete	1	83.42	85.92	0.012	0.42	2	n/a	409.73	409.37	407.73	407.37
D-A-09	Pipe	D-A-09	D-A-08	Circular	Concrete	1	107.95	112.95	0.012	0.75	4	n/a	412.06	411.21	408.06	407.21
LAT D-A-40	Pipe	D-A-40	D-A-39	Circular	Concrete	1	3.12	6.37	0.012	4.51	2	n/a	426.90	426.62	424.90	424.62
LAT D-A-41	Pipe	D-A-41	D-A-39	Circular	Concrete	1	144.77	147.77	0.012	0.3	2.5	n/a	418.82	418.38	416.32	415.88
D-A-11A	Pipe	D-A-11A	D-A-09	Circular	Concrete	1	133.17	138.17	0.012	0.75	4	n/a	413.09	412.06	409.09	408.06
LAT D-A-10	Pipe	D-A-10	D-A-09	Circular	Concrete	1	39.25	42.25	0.012	9	2	n/a	414.05	410.25	412.05	408.25
LAT D-A-42	Pipe	D-A-42	D-A-41	Circular	Concrete	1	11.32	14.57	0.012	9	2	n/a	419.64	418.33	417.64	416.33
LAT D-A-43	Pipe	D-A-43	D-A-41	Circular	Concrete	1	113.41	114.91	0.012	0.3	2.5	n/a	419.17	418.82	416.67	416.32
D-A-11	Pipe	D-A-11	D-A-11A	Circular	Concrete	1	61.88	66.88	0.012	0.95	4	n/a	414.45	413.81	410.45	409.81
LAT D-A-44	Pipe	D-A-44	D-A-43	Circular	Concrete	1	16.29	18.04	0.012	9	2	n/a	420.29	418.67	418.29	416.67
LAT D-A-45	Pipe	D-A-45	D-A-43	Circular	Concrete	1	88.18	89.68	0.012	0.3	2.5	n/a	419.44	419.17	416.94	416.67
D-A-13	Pipe	D-A-13	D-A-11	Circular	Concrete	1	89.32	94.32	0.012	0.9	4	n/a	419.00	418.15	415.00	414.15
LAT D-A-12	Pipe	D-A-12	D-A-11	Circular	Concrete	1	33.17	36.17	0.012	0.42	2	n/a	413.85	413.70	411.85	411.70
LAT D-A-46	Pipe	D-A-46	D-A-45	Circular	Concrete	1	9.04	12.29	0.012	9	2	n/a	420.04	418.94	418.04	416.94
D-A-14	Pipe	D-A-14	D-A-13	Circular	Concrete	1	159.41	164.41	0.012	0.87	3.5	n/a	423.32	421.89	419.82	418.39
D-A-15-A	Pipe	D-A-15-A	D-A-14	Circular	Concrete	1	57.95	62.95	0.012	0.87	3.5	n/a	427.86	427.31	424.36	423.81
D-A-15B	Pipe	D-A-15B	D-A-15-A	Circular	Concrete	1	50.68	55.68	0.012	0.9	3.5	n/a	430.00	429.50	426.50	426.00
D-A-14-A	Pipe	D-A-14-A	D-A-15-A	Circular	Concrete	1	48.98	53.23	0.012	0.89	2	n/a	430.00	429.53	428.00	427.53
D-A-15	Pipe	D-A-15	D-A-15B	Circular	Concrete	1	49.09	54.09	0.012	0.9	3.5	n/a	433.00	432.51	429.50	429.01
D-A-16	Pipe	D-A-16	D-A-15	Circular	Concrete	1	140.82	143.32	0.012	0.85	3.5	n/a	435.61	434.39	432.11	430.89
D-A-17	Pipe	D-A-17	D-A-16	Circular	Concrete	1	75.31	76.56	0.012	1.15	3.5	n/a	436.48	435.60	432.98	432.10
D-A-18	Pipe	D-A-18	D-A-17	Circular	Concrete	1	46.53	51.53	0.012	1.15	3.5	n/a	437.07	436.48	433.57	432.98
D-A-16A	Pipe	D-A-16A	D-A-17	Circular	Concrete	1	21.62	23.53	0.012	3.4	2	n/a	441.15	440.35	439.15	438.35
D-A-19	Pipe	D-A-19	D-A-18	Circular	Concrete	1	84.04	89.04	0.012	1	3.5	n/a	441.26	440.37	437.76	436.87
D-A-20	Pipe	D-A-20	D-A-19	Circular	Concrete	1	39.04	41.54	0.012	1	3.5	n/a	441.68	441.26	438.18	437.76
D-A-21	Pipe	D-A-21	D-A-20	Circular	Concrete	1	75.33	79.83	0.012	1	3.5	n/a	442.43	441.63	438.93	438.13
D-A-23	Pipe	D-A-23	D-A-21	Circular	Concrete	1	46.61	50.61	0.012	1	3	n/a	451.39	450.88	448.39	447.88
LAT D-A-22	Pipe	D-A-22	D-A-21	Circular	Concrete	1	31.55	35.05	0.012	2	2	n/a	450.70	450.00	448.70	448.00
D-A-25A	Pipe	D-A-25A	D-A-23	Circular	Concrete	1	110.12	114.12	0.012	1.31	3	n/a	456.50	455.00	453.50	452.00
LAT D-A-24	Pipe	D-A-24	D-A-23	Circular	Concrete	1	34.15	37.65	0.012	0.67	2	n/a	454.75	454.50	452.75	452.50
D-A-25	Pipe	D-A-25	D-A-25A	Circular	Concrete	1	103.71	105.71	0.012	0.5	3	n/a	460.53	460.00	457.53	457.00
D-A-23A	Pipe	D-A-23A	D-A-25A	Circular	Concrete	1	20.04	23.54	0.012	0.5	2	n/a	457.12	457.00	455.12	455.00
D-A-24A	Pipe	D-A-24A	D-A-24	Circular	Concrete	1	29.85	33.85	0.012	2	2	n/a	457.43	456.75	455.43	454.75
D-A-26	Pipe	D-A-26	D-A-25	Circular	Concrete	1	11.53	13.03	0.012	9.8	2	n/a	461.81	460.53	459.81	458.53
D-A-27B	Pipe	D-A-27B	D-A-25	Circular	Concrete	1	106.48	108.48	0.012	0.5	3	n/a	461.07	460.53	458.07	457.53
D-A-26A	Pipe	D-A-26A	D-A-27B	Circular	Concrete	1	5.72	8.72	0.012	9	2	n/a	470.80	470.01	468.80	468.01
D-A-28B	Pipe	D-A-28B	D-A-27B	Circular	Concrete	1	132.78	134.78	0.012	0.5	3	n/a	461.74	461.07	458.74	458.07
D-A-27	Pipe	D-A-27	D-A-28B	Circular	Concrete	1	97.60	99.60	0.012	0.5	3	n/a	462.23	461.73	459.23	458.73
D-A-28C	Pipe	D-A-28C	D-A-28B	Circular	Concrete	1	33.39	34.89	0.012	6	2	n/a	463.34	461.25	461.34	459.25
D-A-28	Pipe	D-A-28	D-A-27	Circular	Concrete	1	38.55	40.55	0.012	0.4	3	n/a	464.78	464.62	461.78	461.62
D-A-27A	Pipe	D-A-27A	D-A-27	Circular	Concrete	1	5.21	8.71	0.012	1	2	n/a	465.72	465.63	463.72	463.63
D-A-29	Pipe	D-A-29	D-A-28	Circular	Concrete	1	104.59	104.59	0.012	0.4	3	n/a	465.20	464.78	462.20	461.78
D-A-28A	Pipe	D-A-28A	D-A-28	Circular	Concrete	1	6.35	7.85	0.012	1	2	n/a	464.58	464.50	462.58	462.50
D-A-30	Pipe	D-A-30	D-A-29	Circular	Concrete	1	93.26	93.26	0.012	0.4	3	n/a	465.57	465.20	462.57	462.20
D-A-29A	Pipe	D-A-29A	D-A-29	Circular	Concrete	1	6.39	7.89	0.012	1	2	n/a	465.08	465.00	463.08	463.00
D-A-30A	Pipe	D-A-30A	D-A-30	Circular	Concrete	1	4.15	5.65	0.012	1.42	2	n/a	465.08	465.00	463.08	463.00
D-A-30C	Pipe	D-A-30C	D-A-30	Circular	Concrete	1	49.20	49.20	0.012	0.4	3	n/a	465.77	465.57	462.77	462.57
D-A-29B	Pipe	D-A-29B	D-A-29A	Circular	Concrete	1	12.64	16.64	0.012	1.62	2	n/a	466.50	466.23	464.50	464.23
D-A-31B	Pipe	D-A-31B	D-A-30C	Circular	Concrete	1	44.51	44.51	0.012	0.4	3	n/a	465.95	465.77	462.95	462.77
LAT D-A-30B	Pipe	D-A-30B	D-A-30C	Circular	Concrete	1	4.17	5.67	0.012	2.47	2	n/a	465.14	465.00	463.14	463.00
D-A-31	Pipe	D-A-31	D-A-31B	Circular	Concrete	1	19.83	21.83	0.012	0.4	3	n/a	466.04	465.95	463.04	462.95
D-A-31A	Pipe	D-A-31A	D-A-31B	Circular	Concrete	1	4.08	5.58	0.012	0.5	2	n/a	465.28	465.25	463.28	463.25
D-A-33	Pipe	D-A-33	D-A-31	Circular	Concrete	1	49.39	51.39	0.012	0.4	2	n/a	466.29	466.08	464.29	464.08
LAT D-A-32	Pipe	D-A-32	D-A-31	Circular	Concrete	1	12.08	15.58	0.012	0.9	2	n/a	467.93	467.79	465.93	465.79
D-A-35	Pipe	D-A-35	D-A-33-A	Circular	Concrete	1	6.01	8.51	0.012	1.41	1.25	n/a	467.09	466.97	465.84	465.72
LAT D-A-34	Pipe	D-A-34	D-A-33	Circular	Concrete	1	3.68	4.68	0.012	0.3	2	n/a	466.62	466.61	464.62	464.61
LAT D-A-33-A	Pipe	D-A-33-A	D-A-33	Circular	Concrete	1	7.64	7.64	0.012	4.71	2	n/a	466.97	466.97	464.97	464.61

RELEASED FOR CONSTRUCTION

By Beth Blair at 2:28 pm, May 21, 2014

Pegasus Link Constructors

RELEASED FOR CONSTRUCTION

By Beth Blair at 2:28 pm, May 21, 2014

Pegasus Link Constructors



 *Texas Department of Transportation*
© 2014

ISSUE RECORD			
NO.	DESCRIPTION		DATE
0	RFC	EARLY START	08/12/2013
1	NDC	0002	08/30/2013
2	NDC	00009	10/10/2013
3	NDC	00023	11/06/2013
4	NDC	00064	03/04/2013
5	NDC	00096	05/07/2014



Pegasus Link Constructors, LLC



AECOM Technical Services, Inc.- F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT DRAINAGE HYDRAULIC DATA LINK CONFIGURATION

FILE NAME: 042DA4601RPT	DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
CONTROL: ECP0DR6717	DRAWN BZ	6 (SEE TITLE SHEET)		IH 30
DESIGN PACKAGE: RFC	CHECKED FG	STATE TEXAS	DISTRICT DAL	COUNTY DALLAS
SHEET: 01 OF 03	APPROVED SP	CONTROL 1068	SECTION 04	JOB 116
DA4601				

Link ID	Link Type	Link Upstream Node	Link Downstream Node	Link Shape	Link Material	Link Number of Barrels	Link Actual Length (ft)	Link Hydraulic Length (ft)	Link Manning's N Value	Link Slope (%)	Link Rise (ft)	Link Span (ft)	Link Soffit Upstream (ft)	Link Soffit Downstream (ft)	Link Invert Upstream (ft)	Link Invert Downstream (ft)
DRAINAGE LINK CONFIGURATION SYSTEM D-B																
D-B-02	Pipe	D-B-02	D-B-01	Box	Concrete	1	54.83	54.83	0.012	0.3	6	9	396.98	396.81	390.98	390.81
D-B-02-B	Pipe	D-B-02-B	D-B-02	Box	Concrete	1	35.50	35.50	0.012	0.3	6	9	397.08	396.98	391.08	390.98
D-B-03-B	Pipe	D-B-03-B	D-C-02	Box	Concrete	1	38.07	39.07	0.012	0.3	6	9	397.36	397.24	391.36	391.24
D-B-03-A	Pipe	D-B-03-A	D-B-03-B	Box	Concrete	1	29.19	29.19	0.012	0.3	6	9	397.45	397.36	391.45	391.36
LAT D-B-03-C	Pipe	D-B-03-C	D-B-03-B	Circular	Concrete	1	12.15	13.65	0.012	0.3	2	n/a	395.13	395.09	393.13	393.09
D-B-04	Pipe	D-B-04	D-B-03-A	Box	Concrete	1	26.25	26.25	0.012	0.3	6	9	397.53	397.45	391.53	391.45
D-B-03	Pipe	D-B-03	D-B-03-C	Circular	Concrete	1	53.36	56.61	0.012	0.3	2	n/a	402.17	402.00	400.17	400.00
LAT D-B-05-A	Pipe	D-B-05-A	D-B-04	Circular	Concrete	1	20.20	21.70	0.012	3	2	n/a	395.90	395.25	393.90	393.25
D-B-14	Pipe	D-B-14	D-C-05	Box	Concrete	1	6.23	9.40	0.012	0.3	6	9	397.91	397.88	391.91	391.88
LAT D-B-05	Pipe	D-B-05	D-B-05-A	Circular	Concrete	1	45.76	49.01	0.012	3	2	n/a	403.97	402.50	401.97	400.50
D-B-56-B	Pipe	D-B-56-B	D-B-14	Box	Concrete	1	205.01	209.34	0.012	0.34	6	9	398.62	397.91	392.62	391.91
LAT D-B-10-A	Pipe	D-B-10-A	D-B-10-B	Circular	Concrete	1	31.71	34.71	0.012	3	2	n/a	418.00	416.96	416.00	414.96
D-B-07A	Pipe	D-B-07A	D-B-56-B	Circular	Concrete	1	138.05	141.22	0.012	0.31	2	n/a	405.93	405.50	403.93	403.50
D-B-56-A	Pipe	D-B-56-A	D-B-56-B	Box	Concrete	1	66.29	70.62	0.012	0.34	5	9	404.31	404.07	399.31	399.07
LAT D-B-10	Pipe	D-B-10	D-B-10-A	Circular	Concrete	1	51.05	55.05	0.012	2	2	n/a	431.07	429.97	429.07	427.97
D-B-56	Pipe	D-B-56	D-B-56-A	Box	Concrete	1	62.36	66.69	0.012	0.34	5	9	411.41	411.18	406.41	406.18
LAT D-B-09	Pipe	D-B-09	D-B-10	Circular	Concrete	1	5.50	10.50	0.012	2	2	n/a	431.28	431.07	429.28	429.07
D-B-18B	Pipe	D-B-16	D-B-56	Box	Concrete	1	72.84	75.00	0.012	0.35	5	9	411.66	411.40	406.66	406.40
LAT D-B-58	Pipe	D-B-58	D-B-56	Circular	Concrete	1	110.09	114.76	0.012	0.83	3	n/a	412.99	412.04	409.99	409.04
LAT D-B-62	Pipe	D-B-62	D-B-56	Circular	Concrete	1	69.03	72.45	0.012	1	2	n/a	411.73	411.00	409.73	409.00
LAT D-B-08	Pipe	D-B-08	D-B-09	Circular	Concrete	1	15.97	20.97	0.012	2	2	n/a	431.70	431.28	429.70	429.28
D-B-17	Pipe	D-B-17	D-B-16	Box	Concrete	1	35.49	35.49	0.012	0.35	5	9	411.78	411.66	406.78	406.66
LAT D-B-57	Pipe	D-B-57	D-B-16	Circular	Concrete	1	21.69	23.19	0.012	0.5	2	n/a	410.72	410.61	408.72	408.61
LAT D-B-59	Pipe	D-B-59	D-B-58	Circular	Concrete	1	42.81	47.81	0.012	1.06	3	n/a	413.51	413.00	410.51	410.00
LAT D-B-63	Pipe	D-B-63	D-B-62	Circular	Concrete	1	40.00	45.00	0.012	1.48	2	n/a	412.39	411.72	410.39	409.72
LAT D-B-07	Pipe	D-B-07	D-B-08	Circular	Concrete	1	143.51	146.51	0.012	6	2	n/a	440.42	431.65	438.42	429.65
LAT D-B-11	Pipe	D-B-11	D-B-08	Circular	Concrete	1	60.77	65.77	0.012	2	2	n/a	433.02	431.70	431.02	429.70
D-B-16-B	Pipe	D-B-16-B	D-B-17	Box	Concrete	1	18.66	18.66	0.012	0.35	5	9	411.85	411.78	406.85	406.78
LAT D-B-22B	Pipe	D-B-22B	D-B-17	Circular	Concrete	1	45.88	47.38	0.012	0.78	2	n/a	411.10	410.73	409.10	408.73
D-B-57B	Pipe	D-B-57B	D-B-57	Circular	Concrete	1	27.97	32.97	0.012	0.5	2	n/a	410.89	410.72	408.89	408.72
LAT D-B-59-A	Pipe	D-B-59-A	D-B-59	Circular	Concrete	1	107.06	110.81	0.012	0.31	3	n/a	413.90	413.56	410.90	410.56
LAT D-B-64	Pipe	D-B-64	D-B-63	Circular	Concrete	1	98.00	103.00	0.012	2	2	n/a	414.50	412.44	412.50	410.44
LAT D-B-12	Pipe	D-B-12	D-B-11	Circular	Concrete	1	20.83	24.33	0.012	2	2	n/a	433.50	433.02	431.50	431.02
D-B-16-A	Pipe	D-B-16-A	D-B-16-B	Box	Concrete	1	141.92	141.92	0.012	0.35	5	9	412.34	411.85	407.34	406.85
D-B-17A	Pipe	D-B-17A	D-B-22B	Circular	Concrete	1	8.60	11.60	0.012	9.8	2	n/a	429.28	428.15	427.28	426.15
D-B-60A	Pipe	D-B-60A	D-B-59-A	Circular	Concrete	1	17.90	21.65	0.012	1.22	2	n/a	414.16	413.90	412.16	411.90
LAT D-B-61	Pipe	D-B-61	D-B-59-A	Circular	Concrete	1	148.44	152.94	0.012	0.3	3	n/a	414.38	413.92	411.38	410.92
D-B-18	Pipe	D-B-18	D-B-16-A	Box	Concrete	1	47.03	47.03	0.012	0.35	5	9	412.51	412.34	407.51	407.34
LAT D-B-60	Pipe	D-B-60	D-B-60A	Circular	Concrete	1	72.93	77.93	0.012	0.85	2	n/a	414.86	414.19	412.86	412.19
D-B-60B	Pipe	D-B-60B	D-B-61	Circular	Concrete	1	85.97	90.47	0.012	4.97	2	n/a	424.50	420.00	422.50	418.00
D-B-61A	Pipe	D-B-61A	D-B-61	Circular	Concrete	1	38.06	41.31	0.012	9.76	2	n/a	426.03	422.00	424.03	420.00
D-B-22	Pipe	D-B-22	D-B-18	Circular	Concrete	1	45.48	46.98	0.012	7	2	n/a	414.54	411.25	412.54	409.25
D-B-23-A	Pipe	D-B-23-A	D-B-18	Box	Concrete	1	56.91	56.91	0.012	0.35	5	9	412.72	412.52	407.72	407.52
D-B-22A	Pipe	D-B-22A	D-B-22	Circular	Concrete	1	8.59	11.59	0.012	2	2	n/a	423.23	423.00	421.23	421.00
LAT D-B-23	Pipe	D-B-23	D-B-23-A	Box	Concrete	1	62.10	64.27	0.012	0.35	5	9	412.95	412.72	407.95	407.72
LAT D-B-18A	Pipe	D-B-18A	D-B-22A	Circular	Concrete	1	5.06	7.56	0.012	2	2	n/a	429.08	428.93	427.08	426.93
D-B-26	Pipe	D-B-26	D-B-23	Box	Concrete	1	34.35	36.52	0.012	0.35	5	9	413.10	412.97	408.10	407.97
D-B-27B	Pipe	D-B-27B	D-B-26	Box	Concrete	1	94.58</									

DRAINAGE LINK CONFIGURATION SYSTEM D-C
FREQUENCY -5YEAR

Link ID	Link Type	Link Upstream Node	Link Downstream Node	Link Shape	Link Material	Link Number of Barrels	Link Actual Length (ft)	Link Hydraulic Length (ft)	Link Manning's N Value	Link Slope (%)	Link Rise (ft)	Link Span (ft)	Link Soffit Upstream (ft)	Link Soffit Downstream (ft)	Link Invert Upstream (ft)	Link Invert Downstream (ft)
D-C-02	Pipe	D-C-02	D-B-02-B	Box	Concrete	1	47.84	48.84	0.012	0.3	6	9	397.23	397.08	391.23	391.08
D-C-05	Pipe	D-C-05	D-B-04	Box	Concrete	1	114.06	115.06	0.012	0.3	6	9	397.87	397.53	391.87	391.53
LAT D-C-04	Pipe	D-C-04	D-B-03-A	Circular	Concrete	1	17.15	18.90	0.012	9	2	n/a	396.87	395.17	394.87	393.17
D-C-06A	Pipe	D-C-06A	D-B-14	Circular	Concrete	1	200.38	202.55	0.012	0.93	2	n/a	407.97	406.09	405.97	404.09
D-C-06	Pipe	D-C-06	D-C-06A	Circular	Concrete	1	8.46	9.46	0.012	0.93	2	n/a	408.06	407.97	406.06	405.97
D-C-07	Pipe	D-C-07	D-C-06	Circular	Concrete	1	11.80	12.80	0.012	1.89	2	n/a	408.30	408.06	406.30	406.06
D-C-08	Pipe	D-C-08	D-C-07	Circular	Concrete	1	19.75	21.25	0.012	1.33	2	n/a	408.58	408.30	406.58	406.30
D-C-09	Pipe	D-C-09	D-C-07	Circular	Concrete	1	29.25	29.25	0.012	1.89	2	n/a	408.85	408.30	406.85	406.30
D-C-10	Pipe	D-C-10	D-C-09	Circular	Concrete	1	129.37	130.37	0.012	1.89	2	n/a	411.32	408.86	409.32	406.86

1

RELEASED FOR CONSTRUCTION

By Alyssa Moss at 12:23 pm, Sep 09, 2014

Pegasus Link Constructors



Texas Department of Transportation
© 2014

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
O	RFC	10/10/2013
1	NDC 00142	08/25/2014



Pegasus Link Constructors, LLC



AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
DRAINAGE HYDRAULIC DATA
LINK CONFIGURATION

FILE NAME: 042DA4603RPT	DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
CONTROL: ECP0DR6717	DRAWN BZ	6	(SEE TITLE SHEET)		IH 30
DESIGN PACKAGE: RFC	CHECKED SV	STATE	DISTRICT	COUNTY	SHEET NO.
SHEET: 03 OF 03	APPROVED SV	TEXAS	DAL	DALLAS	DA4603
		CONTROL	SECTION	JOB	
		1068	04	116	

PWD CSS
042da4701c.g. dgn

Link ID	Link Discharge (CFS)	Link Capacity (CFS)	Link Uniform Depth (ft)	Link Uniform Velocity (ft/s)	Link Critical Depth (ft)	Link Critical Velocity (ft/s)	Link Critical Slope (ft/ft)	Link Friction Slope (ft/ft)	Link Actual Velocity Downstream (ft/s)	Link Actual Velocity Upstream (ft/s)	Link Actual Depth Downstream (ft)	Link Actual Depth Upstream (ft)	Link HGL Downstream (ft)	Link HGL Upstream (ft)	Link EGL Downstream (ft)	Link EGL Upstream (ft)	Link Upstream Junction Loss (ft)	FN Node Cumulative Tc (min)	FN Node Tc Used (min)
D-A-02A	123.94	147.63	2.82	13.11	3.34	11.04	0.01	0.01	9.86	9.86	4.00	4.00	401.50	401.74	403.01	403.25	0.05	13.86	13.53
D-A-02	123.94	130.20	3.11	11.82	3.34	11.04	0.01	0.01	11.78	10.83	3.12	3.42	406.12	408.05	408.27	409.94	0.08	13.53	13.53
D-A-04	121.92	130.20	3.08	11.74	3.32	10.93	0.01	0.01	11.71	10.61	3.09	3.44	407.71	409.08	409.85	410.94	0.12	13.32	13.32
LAT D-A-03	2.54	73.99	0.25	10.97	0.56	3.57	0	0.09	10.37	2.50	0.26	0.72	412.59	415.72	414.28	415.76	0.01	1.50	10
D-A-05	118.91	134.77	2.93	12.04	3.29	10.77	0.01	0.01	11.92	10.64	2.96	3.33	408.61	409.96	410.82	411.76	0.04	13.14	13.14
LAT D-A-36	3.89	37.43	0.44	7.71	0.69	4.04	0	0.02	1.24	1.33	2.00	1.75	409.08	409.10	410.94	409.12	0.01	2.03	10
D-A-07	118.09	134.77	2.90	12.08	3.28	10.72	0.01	0.01	11.46	9.80	3.06	3.66	409.69	410.52	411.73	412.31	0.38	13.10	13.1
LAT D-A-06	1.05	73.52	0.17	8.36	0.35	2.79	0	0.09	8.36	2.18	0.17	0.42	407.17	412.89	408.26	412.94	0.00	1.50	10
LAT D-A-37	1.09	15.50	0.36	2.83	0.36	2.85	0	0	0.37	0.38	1.75	1.73	409.10	409.10	409.12	409.10	0.00	1.99	10
D-A-08	108.81	134.77	2.73	11.92	3.15	10.23	0.01	0.01	9.03	9.68	3.66	3.35	410.52	410.56	412.31	412.10	0.11	13.04	13.04
LAT D-A-39	10.6	70.25	0.66	10.31	1.09	5.16	0	0.02	9.87	4.81	0.68	1.15	408.68	411.15	410.20	411.56	0.06	3.00	10
LAT D-A-38	1.09	15.94	0.35	2.92	0.36	2.85	0	0	0.38	0.47	1.73	1.37	409.10	409.10	409.10	409.10	0.00	1.50	10
D-A-09	106.62	134.77	2.68	11.89	3.12	10.12	0.01	0.01	11.56	8.52	2.75	3.92	409.96	411.98	412.04	413.57	0.80	12.88	12.88
LAT D-A-40	3.42	52.02	0.35	9.36	0.65	3.89	0	0.05	6.45	2.60	0.45	0.87	425.07	425.77	425.77	425.80	0.02	1.50	10
LAT D-A-41	7.19	24.34	0.94	4.29	0.89	4.59	0	0	4.59	4.12	0.89	0.96	416.77	417.29	411.56	417.57	0.03	2.43	10
D-A-11A	104.99	134.77	2.65	11.86	3.1	10.04	0.01	0.01	11.59	9.80	2.71	3.18	410.77	412.27	412.85	413.84	0.08	12.68	12.68
LAT D-A-10	1.03	73.52	0.17	8.33	0.35	2.80	0	0.09	8.25	2.18	0.17	0.42	408.42	412.47	409.49	412.53	0.00	1.50	10
LAT D-A-42	1.97	73.52	0.23	10.12	0.49	3.33	0	0.09	8.72	2.42	0.25	0.61	416.58	418.25	417.77	418.31	0.01	1.50	10
LAT D-A-43	5.21	24.34	0.79	3.93	0.75	4.18	0	0	2.99	3.85	0.96	0.80	417.29	417.47	417.57	417.71	0.01	1.94	10
D-A-11	104.71	151.67	2.45	12.98	3.1	10.03	0.01	0.01	11.91	9.72	2.64	3.20	412.45	413.65	414.66	415.21	0.10	12.60	12.6
LAT D-A-44	1.56	73.52	0.20	9.44	0.43	3.13	0	0.09	8.68	2.35	0.21	0.53	416.88	418.82	418.07	418.88	0.00	1.50	10
LAT D-A-45	3.65	24.34	0.66	3.52	0.63	3.79	0	0	2.69	3.47	0.80	0.67	417.47	417.60	417.71	417.80	0.01	1.52	10
D-A-13	102.36	147.63	2.45	12.69	3.06	9.91	0	0.01	11.92	9.66	2.58	3.14	416.73	418.14	418.95	419.67	0.08	12.47	12.47
LAT D-A-12	2.12	15.83	0.49	3.53	0.51	3.40	0	0	0.68	0.71	1.95	1.81	413.65	413.66	415.21	413.66	0.01	1.50	10
LAT D-A-46	3.65	73.52	0.30	12.17	0.67	3.96	0	0.09	9.29	2.63	0.37	0.91	417.30	418.95	418.65	418.98	0.02	1.50	10
D-A-14	100.79	101.66	2.85	12.02	3.08	11.25	0.01	0.01	11.99	10.91	2.86	3.21	421.25	423.03	423.48	424.99	0.13	12.24	12.24
D-A-15-A	98.68	101.51	2.77	12.07	3.05	11.08	0.01	0.01	11.77	11.08	2.85	3.05	426.66	427.41	428.82	429.32	0.00	12.16	12.16
D-A-15B	102.5	103.40	2.85	12.22	3.1	11.38	0.01	0.01	11.99	11.22	2.91	3.16	428.91	429.66	431.14	431.67	0.06	12.08	10
D-A-14-A	0.61	23.08	0.22	3.18	0.26	2.49	0	0.01	3.18	1.87	0.22	0.32	427.75	428.32	427.91	428.36	0.00	1.50	10
D-A-15	101.44	103.40	2.82	12.20	3.08	11.30	0.01	0.01	11.95	11.18	2.89	3.13	431.90	432.63	434.12	434.61	0.04	12.01	10
D-A-16	98.47	100.49	2.82	11.84	3.05	11.06	0.01	0.01	11.83	10.23	2.83	3.50	433.72	436.30	435.89	438.20	1.14	4.31	10
D-A-17	98.47	116.88	2.46	13.60	3.05	11.06	0.01	0.01	10.23	10.23	3.50	3.50	436.30	438.28	438.20	439.91	1.36	4.22	10
D-A-18	69.5	116.88	1.94	12.71	2.61	9.02	0	0.01	7.22	7.22	3.50	3.50	438.28	439.08	439.91	439.89	0.59	4.15	10
D-A-16A	27.57	45.19	1.13	15.11	1.82	9.19	0.01	0.03	11.85	8.78	1.39	2.00	439.74	442.17	441.92	443.48	1.20	2.90	10
D-A-19	66.63	108.99	1.98	11.90	2.56	8.84	0	0.01	11.13	7.39	2.09	3.10	438.96	440.86	440.88	442.07	0.54	4.03	10
D-A-20	63.82	108.99	1.93	11.77	2.5	8.66	0	0.01	10.44	7.29	2.13	2.99	439.89	441.17	441.58	442.33	0.49	3.97	10
D-A-21	62.65	108.99	1.90	11.75	2.48	8.59	0	0.01	10.88	8.59	2.02	2.48	440.15	441.41	441.99	442.56	0.00	3.85	10
D-A-23	61.56	72.26	2.13	11.45	2.53	9.68	0.01	0.01	10.86	8.71	2.24	3.00	450.12	451.48	451.96	452.94	0.57	3.78	10
LAT D-A-22	1.08	34.66	0.24	5.00	0.36	2.84	0	0.02	4.92	2.20	0.24	0.43	448.24	449.13	448.62	449.19	0.00	1.50	10
D-A-25A	49.44	82.84	1.67	12.21	2.29	8.54	0.01	0.01	11.59	7.16	1.75	2.83	453.75	456.33	455.83	457.46	0.54	3.62	10
LAT D-A-24	12.13	20.09	1.12	6.68	1.25	5.86	0	0.01	6.59	5.06	1.13	1.43	453.63	454.18	454.31	454.71	0.17	1.50	10
D-A-25	48.96	51.09	2.38	8.15	2.28	8.50	0.01	0	8.50	7.01	2.28	2.89	459.28	460.42	457.46	461.47	0.54	3.41	10
D-A-23A	0.48	17.33	0.23	2.41	0.23	2.35	0	0.01	0.22	0.24	1.33	1.21	456.33	456.33	457.46	456.33	0.00	1.50	10
D-A-24A	11	11.88	1.52	4.30	1.19	5.65	0.04	0.02	5.65	3.89	1.19	1.69	455.94	457.12	454.71	457.41	0.19	1.50	10
D-A-26	0.99	76.72	0.16	8.47	0.34	2.77	0	0.1	0.32	1.28	1.89	0.59	460.42	460.40	461.47	460.42	0.00	1.50	10
D-A-27B	47.97	51.09	2.31	8.21	2.26	8.41	0.01	0	6.87	6.95	2.89	2.83	460.42	460.90	461.47	461.69	0.13	3.19	10
D-A-26A	2.33	73.52	0.24	10.64	0.53	3.49	0	0.09	7.98	2.47	0.30	0.68	468.31	469.48	469.31	469.53	0.01	1.50	10
D-A-28B	45.64	51.09	2.20	8.21	2.2	8.21	0.01	0.01	6.61	6.61	2.83	2.82	460.90	461.57	461.69	462.39	0.33	2.91	10
D-A-27	35.74	51.09	1.85	7.82	1.94	7.38	0	0.01	5.17	5.67	2.84	2.50	461.57	461.73	462.39	462.25	0.05	2.70	10
D-A-28C	9.9	60.03	0.55	14.11	1.13	5.44	0	0.06	11.94	4.66	0.62	1.28	459.87	462.62	462.10	463.08	0.15	1.50	10
D-A-28	34.82	45.70	1.96	7.12	1.92	7.30	0	0	7.30	7.05	1.92	1.98	463.54	463.76	462.25	464.55	0.02	2.61	10
D-A-27A	0.92	24.51	0.26	3.73	0.33	2.71	0	0.01	3.53	2.12	0.28	0.39	463.91	464.11	464.10	464.16	0.00	1.50	10
D-A-29	34.66	45.70	1.96	7.09	1.91	7.29	0	0	7.02	6.34	1.98	2.17	463.76	464.37	464.55	465.15	0.21	2.36	10
D-A-28A	0.16	24.51	0.11	2.19	0.12	1.91	0.01	0.01	0.07	0.08	1.26	1.18	463.76	463.76	464.55	463.76	0.00	1.50	10
D-A-30	25.8	45.70	1.61	6.70	1.64	6.53	0	0	4.72	5.64	2.17	1.85	464.37	464.42	465.15	464.93	0.02	2.13	10
D-A-29A	8.86	24.51	0.83	7.17	1.06	5.23	0	0.01	3.87	3.84	1.37	1.38	464.37	464.46	465.15	464.74	0.12	1.50	10
D-A-30A	0.85	29.16	0.23	4.12	0.32	2.62	0	0.01	0.35	0.37	1.43	1.35	464.43	464.43	465.15	464.43	0.00	1.50	10
D-A-30C	24.95	45.70	1.58	6.59	1.61	6.45	0	0	5.45	6.30	1.85	1.64	464.42	464.41	464.93	465.04	0.01	2.01	10
D-A-29B	3.1	31.21	0.43	6.35	0.62	3.78	0	0.02	5.64	3.65	0.46	0.63	464.69	465.13	465.19	465.35	0.02	1.50	10
D-A-31B	24.56	45.70	1.56	6.60	1.6	6.41	0	0	6.58	5.81	1.57	1.73	464.34	464.68	465.01	465.32	0.13	1.89	10
LAT D-A-30B	0.39	48.53	0.14	3.96	0.22	2.11	0	0.02	0.16	0.18	1.43	1.29	464.43	464.43	465.04	464.43	0.00	0.88	10
D-A-31	24.25	45.70	1.56	6.52	1.59	6.39	0	0	5.74	6.19	1.73	1.63	464.68	464.66	465.32	465.26	0.00	1.72	10
D-A-31A	0.32	17.33	0.19	2.13	0.19	2.14	0.01	0.01	0.13	0.13	1.43	1.40	464.68	464.68	465.32	464.68			

DRAINAGE LYNK HYDRAULICS SYSTEM D-B FREQUENCY -10YEAR																				
Link ID	Link Discharge (CFS)	Link Capacity (CFS)	Link Uniform Depth (ft)	Link Uniform Velocity (ft/s)	Link Critical Depth (ft)	Link Critical Velocity (ft/s)	Link Critical Slope (ft/ft)	Link Friction Slope (ft/ft)	Link Actual Velocity Downstream (ft/s)	Link Actual Velocity Upstream (ft/s)	Link Actual Depth Downstream (ft)	Link Actual Depth Upstream (ft)	Link HGL Downstream (ft)	Link HGL Upstream (ft)	Link EGL Downstream (ft)	Link EGL Upstream (ft)	Link Upstream Junction Loss (ft)	FN Node Cumulative Tc (min)	FN Node Tc Used (min)	
D-B-02	479.98	539.49	4.55	11.73	4.45	11.97	0	0	8.89	8.89	6.00	6.00	401.50	401.88	402.73	403.10	0.25	22.42	22.3	
D-B-02-B	479.98	541.97	4.55	11.73	4.45	11.97	0	0	8.89	8.89	6.00	6.00	401.88	402.17	403.10	403.40	0.21	22.37	22.3	
D-B-03-B	475.51	541.97	4.55	11.62	4.43	11.93	0	0	8.81	8.81	6.00	6.00	402.30	402.40	403.53	403.61	0.01	22.24	22.24	
D-B-03-A	474.79	541.97	4.55	11.60	4.42	11.93	0	0	8.79	8.79	6.00	6.00	402.40	402.48	403.61	403.68	0.01	22.20	22.2	
LAT D-B-03-C	1.3	13.42	0.42	2.73	0.39	2.99	0	0	0.41	0.41	2.00	2.00	402.40	402.40	403.61	402.41	0.00	1.85	10	
D-B-04	473.89	541.97	4.55	11.58	4.42	11.92	0	0	8.78	8.78	6.00	6.00	402.48	402.59	403.68	403.79	0.06	22.17	22.17	
D-B-03	1.3	13.42	0.42	2.73	0.39	2.99	0	0	0.41	0.41	2.00	2.00	402.40	402.41	402.41	402.41	0.00	1.50	10	
LAT D-B-05-A	20.06	42.45	0.97	13.31	1.61	7.41	0.01	0.03	6.39	6.39	2.00	2.00	402.59	402.74	403.79	403.38	0.00	2.00	10	
D-B-14	458.44	541.97	4.46	11.43	4.32	11.79	0	0	8.49	8.49	6.00	6.00	402.89	403.18	404.04	404.30	0.27	17.27	17.27	
LAT D-B-05	20.06	42.45	0.97	13.31	1.61	7.41	0.01	0.03	11.59	6.85	1.08	1.76	401.58	403.73	403.67	404.58	0.15	1.94	10	
D-B-56-B	447.86	576.97	4.18	11.91	4.25	11.70	0	0	8.29	8.29	6.00	6.00	403.18	404.24	404.30	405.30	0.63	16.98	16.98	
LAT D-B-10-A	9.24	42.45	0.63	10.79	1.09	5.30	0	0.03	9.36	4.79	0.70	1.18	415.66	417.18	417.03	417.62	0.09	1.88	10	
D-B-07A	8.27	13.54	1.13	4.52	1.02	5.11	0	0	5.11	3.23	1.02	1.52	404.52	405.45	405.30	405.49	0.11	20.24	20.24	
D-B-56-A	440.65	445.82	4.10	11.94	4.21	11.64	0	0	9.79	9.79	5.00	5.00	404.24	405.51	405.30	407.00	1.04	16.88	16.79	
LAT D-B-10	9.24	34.66	0.71	9.32	1.09	5.30	0	0.02	8.73	5.30	0.74	1.09	428.71	430.16	429.90	430.60	0.00	1.78	10	
D-B-56	440.65	447.04	4.10	11.94	4.21	11.64	0	0	11.94	10.72	4.10	4.57	410.28	410.98	412.50	413.08	0.36	16.79	16.79	
LAT D-B-09	9.18	34.66	0.70	9.33	1.08	5.29	0	0.02	7.12	5.28	0.86	1.08	429.93	430.37	430.72	430.80	0.00	1.76	10	
D-B-18B	412.11	452.33	3.87	11.84	4.02	11.38	0	0	10.00	10.74	4.58	4.27	410.98	410.92	413.08	412.74	0.03	3.94	10	
LAT D-B-58	30.5	65.83	1.43	9.18	1.79	6.93	0	0.01	8.93	6.66	1.46	1.85	410.50	411.84	411.74	412.59	0.06	16.58	16.58	
LAT D-B-62	6.3	24.52	0.69	6.51	0.89	4.67	0	0.01	2.01	3.05	1.98	1.25	410.98	410.97	413.08	411.13	0.03	1.91	10	
LAT D-B-08	8.98	34.66	0.69	9.26	1.07	5.25	0	0.02	7.72	4.66	0.79	1.18	430.08	430.88	431.01	431.31	0.11	1.72	10	
D-B-17	409.04	452.33	3.79	11.99	4	11.35	0	0	11.74	11.34	3.87	4.01	410.53	410.79	412.67	412.79	0.01	3.89	10	
LAT D-B-57	11	17.33	1.16	5.83	1.19	5.65	0	0	3.50	3.50	2.00	2.00	410.92	411.10	412.74	411.29	0.13	19.97	19.97	
LAT D-B-59	28.25	74.42	1.28	9.80	1.72	6.74	0	0.01	8.89	6.29	1.38	1.82	411.38	412.33	412.61	413.04	0.10	13.84	13.84	
LAT D-B-63	3.52	29.79	0.46	6.37	0.66	3.92	0	0.01	6.18	3.88	0.47	0.66	410.19	411.05	410.79	411.29	0.00	1.80	10	
LAT D-B-07	4.32	60.03	0.36	11.09	0.73	4.16	0	0.06	11.06	2.70	0.36	1.01	429.99	439.43	431.91	439.45	0.03	1.50	10	
LAT D-B-11	4.17	34.66	0.47	7.45	0.72	4.12	0	0.02	7.30	4.03	0.48	0.73	430.18	431.75	431.01	432.01	0.01	1.57	10	
D-B-16-B	408.98	452.33	3.79	11.99	4	11.35	0	0	11.66	9.27	3.90	4.90	410.68	411.75	412.79	413.75	0.90	3.87	10	
LAT D-B-22B	0.64	21.66	0.24	3.06	0.27	2.49	0	0.01	0.20	0.23	2.00	1.69	410.79	410.79	412.79	410.79	0.00	17.08	17.05	
D-B-57B	7.14	17.19	0.89	5.25	0.95	4.86	0	0.01	2.27	2.27	2.00	2.00	411.10	411.21	411.29	411.28	0.08	19.86	19.86	
LAT-D-B-59-A	25.04	39.91	1.72	5.99	1.61	6.46	0	0	5.77	5.48	1.77	1.85	412.33	412.74	413.04	413.29	0.12	13.53	13.53	
LAT D-B-64	1.78	34.66	0.31	5.81	0.46	3.24	0	0.02	5.79	2.39	0.31	0.57	410.75	413.08	411.28	413.13	0.01	1.50	10	
LAT D-B-12	2.2	34.66	0.34	6.18	0.51	3.43	0	0.02	5.78	2.46	0.36	0.66	431.37	432.16	431.90	432.21	0.01	1.50	10	
D-B-16-A	408.98	452.33	3.79	11.99	4	11.35	0	0	9.27	10.22	4.90	4.45	411.75	411.79	413.75	413.51	0.12	3.67	10	
D-B-17A	0.64	76.72	0.13	7.42	0.27	2.49	0	0.1	6.90	1.90	0.14	0.33	426.28	427.61	427.04	427.65	0.00	17.05	17.05	
D-B-60A	2.92	27.07	0.44	5.64	0.6	3.72	0	0.01	5.28	3.63	0.46	0.61	412.36	412.77	412.80	412.98	0.01	13.47	13.47	
LAT D-B-61	22.24	39.58	1.61	5.77	1.52	6.20	0	0	4.95	5.09	1.82	1.78	412.74	413.16	413.29	413.66	0.15	12.30	12.3	
D-B-18	408.98	452.33	3.79	11.99	4	11.35	0	0	10.22	10.76	4.45	4.22	411.79	411.73	413.51	413.53	0.00	3.60	10	
LAT D-B-60	1.31	22.58	0.33	3.93	0.4	2.97	0	0.01	3.91	2.28	0.33	0.48	412.52	413.33	412.76	413.39	0.00	10.21	10.21	
D-B-60B	1.45	54.66	0.22	7.49	0.42	3.06	0	0.05	7.49	2.32	0.22	0.51	418.22	423.01	419.10	423.06	0.00	12.10		

P:\MDCSS_042da4703c\lg.dgn

DRAINAGE LINK HYDRAULICS SYSTEM D-B
FREQUENCY -10YEAR

Link ID	Link Discharge (CFS)	Link Capacity (CFS)	Link Uniform Depth (ft)	Link Uniform Velocity (ft/s)	Link Critical Depth (ft)	Link Critical Velocity (ft/s)	Link Critical Slope (ft/ft)	Link Friction Slope (ft/ft)	Link Actual Velocity Downstream (ft/s)	Link Actual Velocity Upstream (ft/s)	Link Actual Depth Downstream (ft)	Link Actual Depth Upstream (ft)	Link HGL Downstream (ft)	Link HGL Upstream (ft)	Link EGL Downstream (ft)	Link EGL Upstream (ft)	Link Upstream Junction Loss (ft)	FN Node Cumulative Tc (min)	FN Node Tc Used (min)
D-B-28A	34.9	54.42	1.46	11.75	2.01	8.26	0.01	0.01	10.80	8.25	1.56	2.01	421.59	422.99	423.40	424.05	0.00	2.97	10
LAT D-B-46	301.6	452.33	3.09	10.83	3.27	10.25	0	0	10.83	8.45	3.09	3.97	412.00	413.44	413.82	415.07	0.70	1.50	10
D-B-28	34.9	62.84	1.33	13.16	2.01	8.26	0.01	0.02	9.70	7.11	1.72	2.50	432.03	433.17	433.49	434.23	0.67	2.96	10
D-B-29	19.23	30.02	1.17	10.12	1.58	7.24	0.01	0.01	6.12	6.12	2.00	2.00	433.17	433.62	434.23	434.20	0.18	2.79	10
LAT D-B-47	11.74	19.98	1.10	6.63	1.23	5.79	0	0.01	6.61	5.07	1.10	1.38	433.12	434.11	433.80	434.63	0.15	2.69	10
D-B-31	16.99	28.54	1.11	9.48	1.49	6.79	0.01	0.01	9.40	6.28	1.12	1.61	432.27	434.84	433.64	435.56	0.12	2.52	10
LAT D-B-30	2.24	49.02	0.29	7.92	0.52	3.45	0	0.04	0.71	1.17	2.00	1.17	433.62	433.62	434.20	433.64	0.01	1.50	10
LAT D-B-48	0.77	34.66	0.21	4.51	0.3	2.58	0	0.02	0.33	0.90	1.38	0.64	434.11	434.10	434.63	434.11	0.00	1.50	10
LAT D-B-49	8.05	15.50	1.03	4.96	1.01	5.06	0	0	3.47	0.90	1.38	1.08	434.11	434.22	434.63	434.59	0.03	2.34	10
D-B-32	15.47	28.55	1.05	9.28	1.42	6.50	0.01	0.01	8.27	5.87	1.15	1.56	434.38	435.18	435.45	435.84	0.15	2.47	10
LAT D-B-33	0.18	24.51	0.12	2.28	0.12	2.19	0.01	0.01	2.28	0.95	0.12	0.22	435.91	436.98	435.99	436.98	0.00	1.50	10
LAT D-B-50	0.94	54.80	0.18	6.60	0.33	2.73	0	0.05	6.55	2.13	0.18	0.40	433.33	435.80	434.00	435.86	0.00	1.50	10
LAT D-B-51	7.11	15.50	0.95	4.81	0.95	4.86	0	0	4.12	4.67	1.08	0.98	434.22	434.51	434.59	434.87	0.02	2.00	10
D-B-31A	13.37	37.97	0.82	11.03	1.32	6.10	0.01	0.02	9.54	6.00	0.92	1.33	434.53	435.83	435.95	436.41	0.02	2.42	10
LAT D-B-34	2.11	14.91	0.51	3.37	0.5	3.40	0	0	0.80	1.03	1.56	1.24	435.18	435.19	435.84	435.21	0.01	1.50	10
LAT D-B-52	4.04	15.50	0.70	4.15	0.71	4.08	0	0	2.73	3.44	0.95	0.80	434.51	434.53	434.87	434.72	0.02	1.83	10
D-B-35	12.31	38.75	0.78	10.94	1.26	5.90	0	0.02	9.72	5.22	0.85	1.41	435.35	437.01	436.82	437.55	0.14	2.35	10
LAT D-B-53	1.7	73.69	0.21	9.69	0.45	3.20	0	0.09	9.61	2.38	0.21	0.56	433.93	439.26	435.39	439.31	0.00	1.50	10
LAT D-B-54	2.35	32.54	0.36	6.03	0.53	3.50	0	0.02	6.02	2.48	0.36	0.68	434.09	436.50	434.66	436.54	0.01	1.50	10
D-B-36	11.34	40.64	0.72	11.08	1.21	5.71	0	0.03	8.18	5.15	0.91	1.32	436.51	437.28	437.56	437.79	0.11	2.33	10
D-B-37A	11.34	40.64	0.72	11.08	1.21	5.71	0	0.03	7.78	5.69	0.94	1.21	436.90	437.41	437.84	437.92	0.00	2.32	10
D-B-37	11.26	40.64	0.72	11.07	1.2	5.70	0	0.03	11.04	4.83	0.72	1.39	436.92	443.45	438.82	443.96	0.19	2.00	10
D-B-36A	0.68	34.66	0.19	4.35	0.28	2.56	0	0.02	4.35	1.94	0.19	0.34	436.39	438.26	436.69	438.30	0.00	22.00	22
D-B-38	2.11	40.64	0.31	6.81	0.5	3.39	0	0.03	0.91	1.13	1.39	1.15	443.45	443.45	443.96	443.47	0.01	1.77	10
LAT D-B-41	6.95	17.33	0.88	5.22	0.94	4.82	0	0.01	2.98	3.75	1.39	1.14	443.45	443.50	443.96	443.75	0.06	1.81	10
D-B-39	1.9	40.64	0.29	6.60	0.48	3.29	0	0.03	6.21	3.28	0.31	0.48	442.61	443.45	443.21	443.62	0.00	1.70	10
LAT D-B-42	0.42	15.50	0.23	2.13	0.22	2.27	0	0	0.23	0.27	1.14	0.99	443.50	443.50	443.75	443.50	0.00	1.50	10
LAT D-B-44	5.39	34.66	0.53	8.01	0.82	4.45	0	0.02	6.38	4.14	0.63	0.86	443.72	444.18	444.35	444.49	0.05	1.50	10
LAT D-B-10-B	9.24	42.45	0.63	10.79	1.09	5.30	0	0.03	3.16	3.74	1.76	1.47	403.73	403.68	404.58	403.90	0.00	1.93	10
D-B-40	1.22	40.64	0.24	5.79	0.38	2.93	0	0.03	5.79	2.25	0.24	0.46	443.21	445.38	443.74	445.44	0.00	1.50	10

DRAINAGE LINK HYDRAULICS SYSTEM D-B-FREQUENCY -10YEAR

Link ID	Link Discharge (CFS)	Link Capacity (CFS)	Link Uniform Depth (ft)	Link Uniform Velocity (ft/s)	Link Critical Depth (ft)	Link Critical Velocity (ft/s)	Link Critical Slope (ft/ft)	Link Friction Slope (ft/ft)	Link Actual Velocity Downstream (ft/s)	Link Actual Velocity Upstream (ft/s)	Link Actual Depth Downstream (ft)	Link Actual Depth Upstream (ft)	Link HGL Downstream (ft)	Link HGL Upstream (ft)	Link EGL Downstream (ft)	Link EGL Upstream (ft)	Link Upstream Junction Loss (ft)	FN Node Cumulative Tc (min)	FN Node Tc Used (min)
D-C-02	479.98	541.97	4.55	11.73	4.45	11.97	0	0	8.89	8.89	6.00	6.00	402.17	402.30	403.40	403.53	0.02	22.30	22.3
D-C-03	19.21	23.25	1.39	8.27	1.58	7.23	0.01	0.01	8.18	6.95	1.40	1.64	403.81	404.66	404.85	405.48	0.07	23.19	23.19
D-C-05	465.39	541.97	4.46	11.61	4.36	11.85	0	0	8.62	8.62	6.00	6.00	402.59	402.89	403.79	404.04	0.04	22.00	17.27
LAT D-C-04	1.65	73.52	0.21	9.59	0.44	3.18	0	0.09	0.52	0.52	2.00	2.00	402.48	402.48	403.68	402.49	0.00	1.50	10
D-C-06A	12.6	23.63	1.04	7.62	1.28	5.95	0	0.01	7.62	5.70	1.04	1.33	405.13	407.30	406.03	407.85	0.05	22.40	22.38
D-C-06	12.6	23.63	1.04	7.62	1.28	5.95	0	0.01	6.76	5.32	1.15	1.41	407.12	407.47	407.83	408.02	0.13	22.38	22.38
D-C-07	7.28	33.69	0.63	8.57	0.96	4.89	0	0.02	3.08	4.18	1.41	1.09	407.47	407.39	408.02	407.70	0.06	22.36	22.36
D-C-08	4.01	28.23	0.51	6.36	0.7	4.07	0	0.01	5.81	2.67	0.54	0.97	406.84	407.55	407.37	407.57	0.03	1.50	10
D-C-09	4.5	33.69	0.49	7.46	0.75	4.21	0	0.02	6.82	4.10	0.53	0.76	406.83	407.62	407.55	407.89	0.01	22.29	22
D-C-10	4.5	33.69	0.49	7.46	0.75	4.21	0	0.02	7.43	2.72	0.50	1.04	407.35	410.36	408.21	410.37	0.03	22.00	22

RELEASED FOR CONSTRUCTION

By Amanda Lee at 10:21 am, Apr 17, 2015

Pegasus Link Constructors



Texas Department of Transportation
© 2015

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
O	RFC	10/10/2013
1	NDC 00088	04/23/2014
2	NDC 00142	08/25/2014
3	NDC 00172	04/08/2015



Pegasus Link Constructors,LLC

AECOM AECOM Technical Services, Inc.- F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
DRAINAGE HYDRAULIC DATA
LINK HYDRAULICS

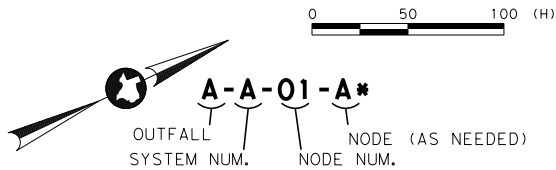
FILE NAME: 042DA4703CLC
CONTROL: ECP0DR6717
DESIGN PACKAGE: RFC
SHEET: 03 OF 03

DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
DRAWN BZ	6	(SEE TITLE SHEET)		1H 30
CHECKED SV	STATE	DISTRICT	COUNTY	SHEET NO. DA4703
APPROVED SV	TEXAS	DAL	DALLAS	
	CONTROL	SECTION	JOB	
	1068	04	116	

Match Line (35SBML) STA 5041+00
(See Sheet DA4105)



Match Line (35SBML) STA 5051+00
(See Sheet DA5102)



DRAINAGE SUB AREA
MAP LEGEND

- AREA NUMBER
AREA IN ACRES
- DRAINAGE DITCH
- PROPOSED STORM SEWER
- SLOTTED BARRIER RAIL
- DRAINAGE AREA DIVIDE
- DIRECTION OF FLOW RUNOFF

NOTE: AREAS NOT SHOWING ACREAGE AND RUNOFF
ARE PASSING THROUGH SLOTTED RAIL.

RELEASED FOR CONSTRUCTION

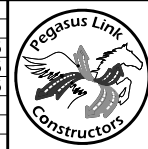
By Beth Blair at 3:02 pm, Oct 22, 2013

Pegasus Link Constructors



Texas Department of Transportation
© 2013

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
O	RFC	10/10/2013



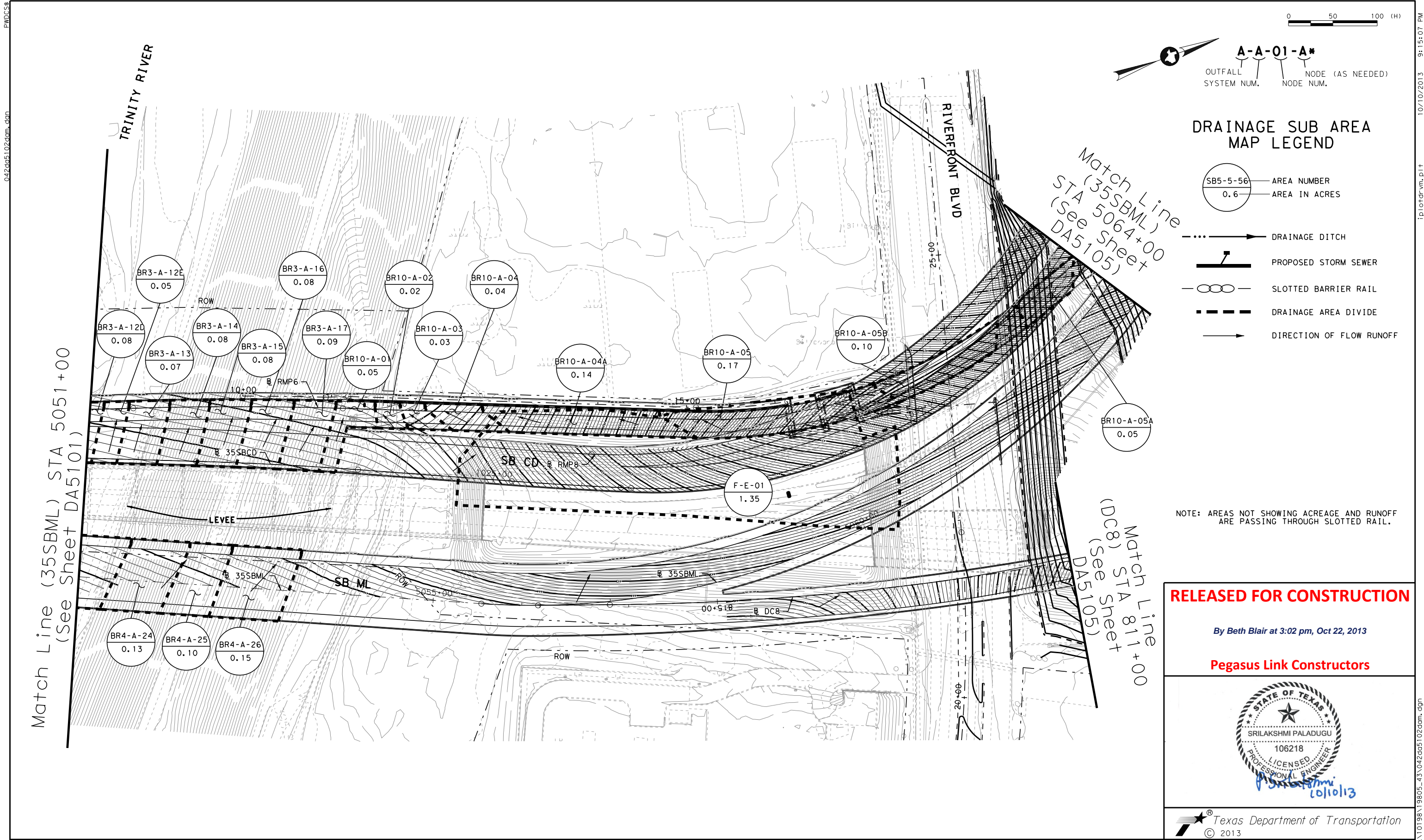
Pegasus Link Constructors, LLC

AECOM AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

**HORSESHOE PROJECT
DRAINAGE AREA MAP
(35SBML) STA 5041+00 TO STA 5051+00**

FILE NAME: 042DA5101DAM
CONTROL: ECP0DR6897
DESIGN PACKAGE: RFC
SHEET: 01 OF 05

DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
DRAWN BZ	6	(SEE TITLE SHEET)		1H 30
CHECKED FG	STATE	DISTRICT	COUNTY	SHEET NO.
APPROVED SP	TEXAS	DAL	DALLAS	DA5101
	CONTROL	SECTION	JOB	
	1068	04	116	



RELEASED FOR CONSTRUCTION

By Beth Blair at 3:02 pm, Oct 22, 2013

Pegasus Link Constructors



Texas Department of Transportation
© 2013

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
O	RFC	10/10/2013

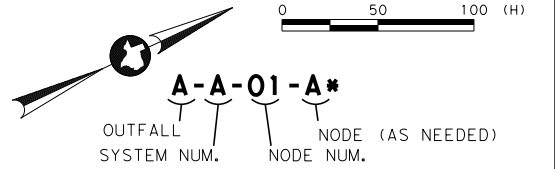
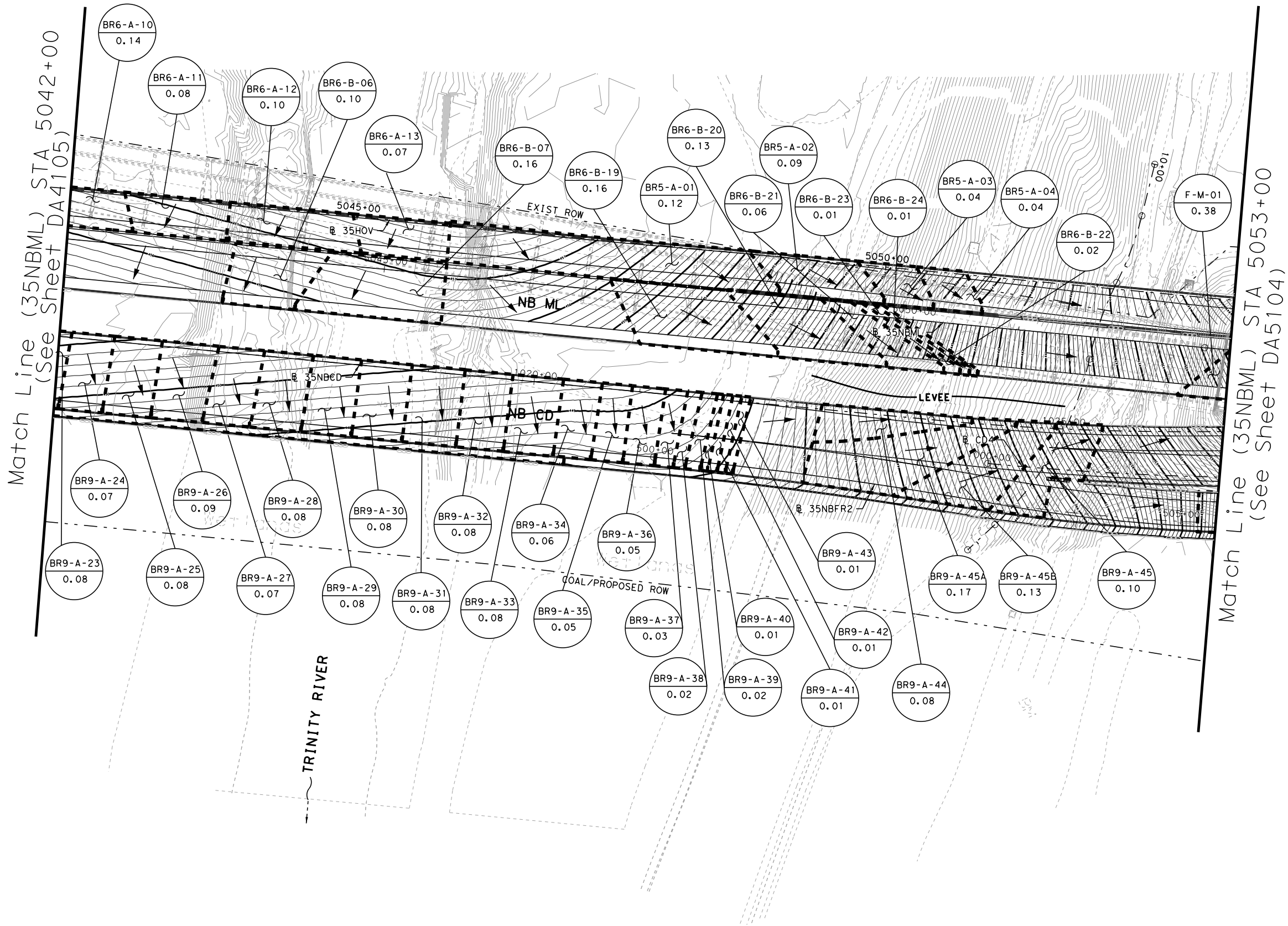


Pegasus Link Constructors, LLC
AECOM AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

**HORSESHOE PROJECT
DRAINAGE AREA MAP
(35SBML) STA 5051+00 TO STA 5064+00**

FILE NAME:
042DA5102DAM
CONTROL:
ECP0DR6897
DESIGN PACKAGE:
RFC
SHEET:
02 OF 05

DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
DRAWN BZ	6	(SEE TITLE SHEET)		IH 30
CHECKED FG	STATE	DISTRICT	COUNTY	SHEET NO.
APPROVED SP	TEXAS	DAL	DALLAS	DA5102
	CONTROL	SECTION	JOB	
	1068	04	116	



DRAINAGE SUB AREA MAP LEGEND

- SB5-5-56 0.6 AREA NUMBER AREA IN ACRES
- DRAINAGE DITCH
- PROPOSED STORM SEWER
- SLOTTED BARRIER RAIL
- DRAINAGE AREA DIVIDE
- DIRECTION OF FLOW RUNOFF

NOTE: AREAS NOT SHOWING ACREAGE AND RUNOFF ARE PASSING THROUGH SLOTTED RAIL.

RELEASED FOR CONSTRUCTION

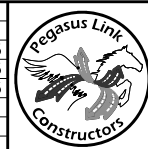
By Beth Blair at 3:02 pm, Oct 22, 2013

Pegasus Link Constructors



Texas Department of Transportation
© 2013

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
O	RFC	10/10/2013



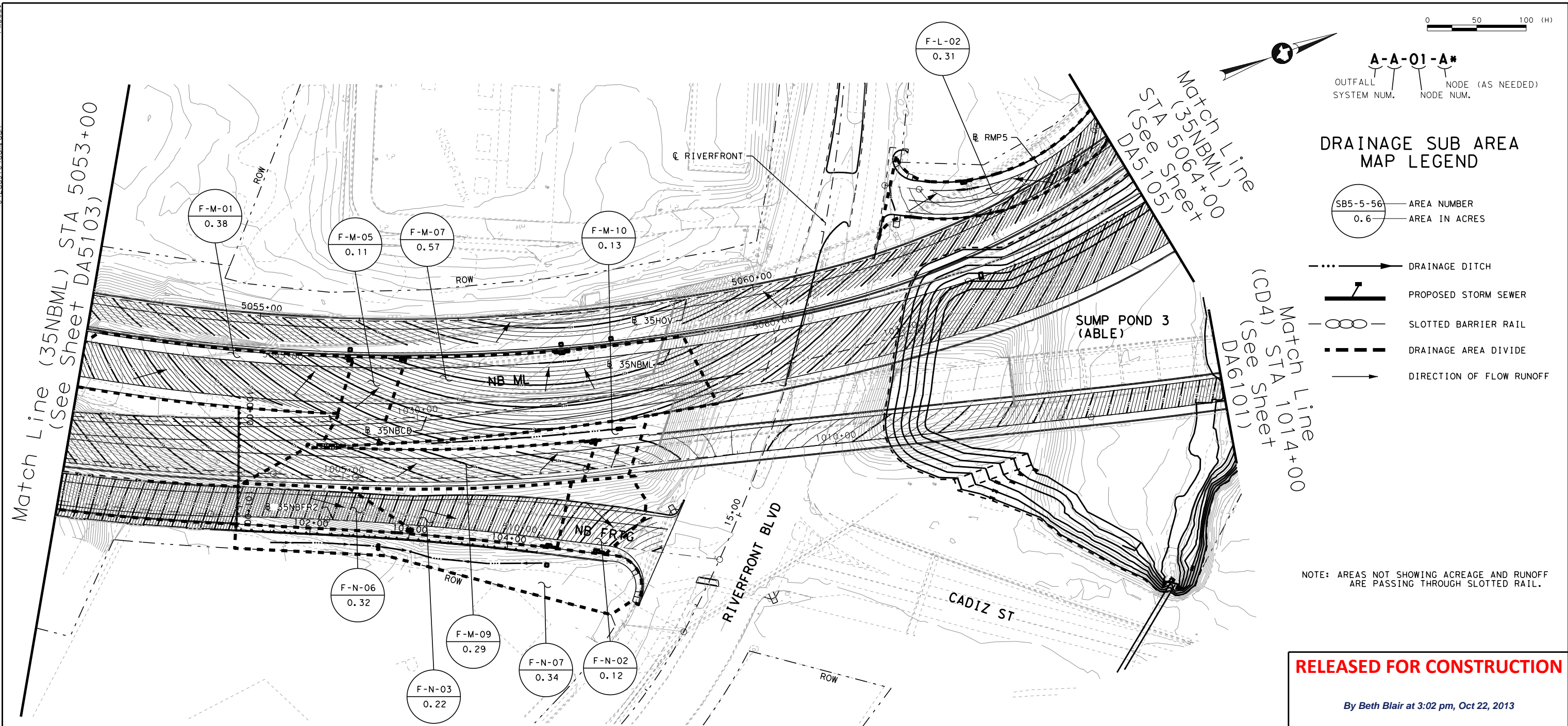
Pegasus Link Constructors, LLC

AECOM AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT DRAINAGE AREA MAP (35NBML) STA 5042+00 TO STA 5053+00

FILE NAME:
042DA5103DAM
CONTROL:
ECP0DR6897
DESIGN PACKAGE:
RFC
SHEET:
03 OF 05

DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
6	(SEE TITLE SHEET)		1H 30
DRAWN	STATE	DISTRICT	COUNTY
BZ	TEXAS	DAL	DALLAS
CHECKED	SECTION	JOB	
FG			
APPROVED SP	1068	04	116
DA5103			



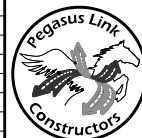
RELEASED FOR CONSTRUCTION

By Beth Blair at 3:02 pm, Oct 22, 2013

Pegasus Link Constructors



 *Texas Department of Transportation*
© 2013

[illegible]

Pegasus Link Constructors,LLC



AECOM Technical Services, Inc.- F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
DRAINAGE AREA MAP
(35NBML) STA 5053+00 TO STA 5064+00

FILE NAME:	042DA5104DAM	DESIGNED	FED. RD.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
CONTROL:	ECP0DR6897	SP	DIV. NO.	(SEE TITLE SHEET)	IH 30
DESIGN PACKAGE:	RFC	DRAWN	STATE	DISTRICT	SHEET NO.
SHEET:	04_OF 05	BZ	TEXAS	DAL	DALLAS
		CHECKED	CONTROL	SECTION	JOB
		FG	1068	04	116
		APPROVED	SP		

DA5104

PWD055 042da5301rpt.dgn

DRAINAGE AREA SYSTEM F-A FREQUENCY -10YEAR

Area ID	Area Composite C Value	Drainage Area (AC)	Time of Concentration (Minutes)	Time Used (Minutes)	Intensity (In/Hr)	Discharge (CFS)
F-A-02	0.9	0.09	3.02	10	8.01	0.67
F-A-02B	0.9	0.17	5.57	10	8.01	1.25
F-A-03	0.9	0.18	4.66	10	8.01	1.29
F-A-02C	0.9	0.29	5.11	10	8.01	2.09
F-A-04	0.9	0.11	3.65	10	8.01	0.81

DRAINAGE AREA SYSTEM F-B FREQUENCY -10YEAR

F-B-02A	0.9	0.1	1.91	10	8.01	0.71
---------	-----	-----	------	----	------	------

DRAINAGE AREA SYSTEM F-C FREQUENCY -10YEAR

F-C-02	0.9	0.35	3.25	10	8.01	2.54
F-C-05	0.9	0.35	2.56	10	8.01	2.51
F-C-06	0.9	0.87	3.73	10	8.01	6.29
F-C-08	0.9	0.19	2.25	10	8.01	1.37
F-C-10	0.9	0.17	2.51	10	8.01	1.24
F-C-16	0.9	0.94	5.13	10	8.01	6.81
F-C-14	0.9	0.24	3.18	10	8.01	1.74
F-C-14B	0.9	0.17	2.58	10	8.01	1.22

DRAINAGE AREA SYSTEM F-D FREQUENCY -10YEAR

F-D-09	0.9	1.62	2.58	10	8.01	11.69
F-D-10	0.9	1.18	2.57	10	8.01	8.51
F-D-12	0.9	0.4	2.69	10	8.01	2.88
F-D-13	0.9	0.24	6.1	10	8.01	1.76
F-D-12A	0.9	0.8	5.6	10	8.01	5.8
F-D-15	0.9	0.29	2.88	10	8.01	2.07

DRAINAGE AREA SYSTEM F-E FREQUENCY -5YEAR

F-E-01	0.9	1.35	2.56	10	6.89	8.34
--------	-----	------	------	----	------	------

DRAINAGE AREA SYSTEM F-G FREQUENCY -10YEAR

F-G-02B	0.9	1.32	3.24	10	8.01	9.53
F-G-04	0.9	0.37	2.58	10	8.01	2.64
F-G-08	0.9	0.05	4.62	10	8.01	0.37
F-G-11	0.9	1.60	8.03	10	8.01	11.5
F-G-08A	0.9	0.18	3.02	10	8.01	1.22
F-G-10	0.9	0.44	5.78	10	8.01	3.17
F-G-10A	0.9	0.07	2.54	10	8.01	0.51

DRAINAGE AREA SYSTEM F-I FREQUENCY -10YEAR

Area ID	Area Composite C Value	Drainage Area (AC)	Time of Concentration (Minutes)	Time Used (Minutes)	Intensity (In/Hr)	Discharge (CFS)
F-I-11	0.9	0.07	1.14	10	8.01	0.49
F-I-12	0.9	0.09	1.78	10	8.01	0.67
F-I-13	0.9	0.16	2.23	10	8.01	1.17
F-I-14	0.9	0.34	2.23	10	8.01	2.43
F-I-15	0.9	0.19	1.45	10	8.01	1.4
F-I-16	0.9	0.07	1.45	10	8.01	0.48
F-I-09	0.9	0.39	3.27	10	8.01	2.79
F-I-17	0.9	0.75	11.59	11.59	7.52	5.1
F-I-18	0.9	0.96	16.61	16.61	6.34	5.48
F-I-10	0.9	0.2	2.15	10	8.01	1.47

DRAINAGE AREA SYSTEM F-J FREQUENCY -10YEAR

F-J-24	0.9	0.21	2.23	10	8.01	1.49
F-J-04	0.9	0.22	10	10	8.01	1.29
F-J-22	0.9	0.1	2	10	8.01	0.74
F-J-18	0.9	0.25	3.32	10	8.01	1.79
F-J-04A	0.9	0.18	10	10	8.01	1.29
F-J-23	0.9	0.19	2.98	10	8.01	1.37
F-J-19	0.9	0.33	1.99	10	8.01	2.35
F-J-20	0.9	0.28	4.2	10	8.01	2.04
F-J-05A	0.9	0.18	10	10	8.01	1.29
F-J-21	0.9	0.19	2.9	10	8.01	1.37
F-J-16	0.9	0.15	2.15	10	8.01	1.11
F-J-17	0.9	0.18	2.61	10	8.01	1.32
F-J-07	0.9	0.17	1.67	10	8.01	1.2
F-J-15	0.9	0.28	2.71	10	8.01	2.05
F-J-09	0.9	0.23	2.72	10	8.01	1.63
F-J-14	0.9	0.3	4.36	10	8.01	2.14
F-J-10	0.9	0.13	2.19	10	8.01	0.95

DRAINAGE AREA SYSTEM F-L FREQUENCY -10YEAR

Area ID	Area Composite C Value	Drainage Area (AC)	Time of Concentration (Minutes)	Time Used (Minutes)	Intensity (In/Hr)	Discharge (CFS)
F-L-02	0.9	0.31	3.28	10	8.01	2.2

DRAINAGE AREA SYSTEM F-M FREQUENCY -10YEAR

F-M-10	0.9	0.13	4.05	10	8.01	0.9
F-M-07	0.9	0.57	3.89	10	8.01	4.1
F-M-09	0.9	0.29	4.05	10	8.01	2.1
F-M-05	0.9	0.11	1.95	10	8.01	0.77
F-M-01	0.9	0.38	3.36	10	8.01	2.74

DRAINAGE AREA SYSTEM F-N FREQUENCY -10YEAR

F-N-02	0.9	0.12	3.24	10	6.89	0.75
F-N-03	0.9	0.22	3.74	10	6.89	1.38
F-N-07	0.9	0.34	3.08	10	6.89	2.11
F-N-06	0.9	0.32	3.74	10	6.89	1.96

DRAINAGE AREA SYSTEM F-P FREQUENCY -10YEAR

F-P-01	0.9	2.33	3.72	10	8.01	16.8
F-P-02	0.9	1.12	3.27	10	8.01	8.11

RELEASED FOR CONSTRUCTION

By Beth Blair at 2:22 pm, Jan 30, 2014

Pegasus Link Constructors



Texas Department of Transportation
© 2013

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
0	RFC	10/10/2013
1	NDC 00049	12/20/2013



Pegasus Link Constructors, LLC

AECOM

AECOM Technical Services, Inc.- F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
DRAINAGE HYDRAULIC DATA
AREA REPORT

FILE NAME:
042DA5301RPT
CONTROL:
ECP0DR6897
DESIGN PACKAGE:
RFC
SHEET:
01 OF 02

DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.			HIGHWAY NO.
	6	(SEE TITLE SHEET)			IH 30
DRAWN BZ	STATE	DISTRICT	COUNTY	SHEET NO.	
CHECKED FG	TEXAS	DAL	DALLAS	DA5301	
APPROVED SP	CONTROL	SECTION	JOB		
	1068	04	116		

12/19/2013 11:04:06 PM
p:\ot-dr\m.p1.t

\\p\dc\p\pdc\m\14561\19805_166\042da5301rpt.dgn

DRAINAGE AREA BRIDGES FREQUENCY -10YEAR						
Area ID	Area Composite C Value	Drainage Area (AC)	Time of Concentration (Minutes)	Time Used (Minutes)	Intensity (In/Hr)	Discharge (CFS)
BR4-A-01	0.9	0.12	2.76	10	8.01	0.83
BR4-A-02	0.9	0.09	2.64	10	8.01	0.64
BR4-A-03	0.9	0.09	2.66	10	8.01	0.66
BR4-A-04	0.9	0.06	2.58	10	8.01	0.41
BR4-A-05	0.9	0.01	1.50	10	8.01	0.11
BR4-A-06	0.9	0.02	2.42	10	8.01	0.13
BR4-A-07	0.9	0.02	2.48	10	8.01	0.18
BR4-A-08	0.9	0.16	2.95	10	8.01	1.16
BR4-A-09	0.9	0.1	2.53	10	8.01	0.72
BR4-A-10	0.9	0.12	2.65	10	8.01	0.83
BR6-A-02	0.9	0.18	2.41	10	8.01	1.31
BR6-A-03	0.9	0.19	3.23	10	8.01	1.40
BR6-A-04	0.9	0.18	1.17	10	8.01	1.33
BR6-A-05	0.9	0.18	1.16	10	8.01	1.27
BR6-A-06	0.9	0.14	1.16	10	8.01	1.01
BR6-A-07	0.9	0.2	1.16	10	8.01	1.45
BR6-A-08	0.9	0.14	3.61	10	8.01	1.02
BR6-A-09	0.9	0.08	2.81	10	8.01	0.58
BR6-A-10	0.9	0.14	3.71	10	8.01	1.01
BR6-A-11	0.9	0.08	2.71	10	8.01	0.57
BR6-A-12	0.9	0.1	3.06	10	8.01	0.75
BR6-A-13	0.9	0.07	2.61	10	8.01	0.53
BR6-B-01	0.9	0.24	2.75	10	8.01	1.76
BR6-B-02	0.9	0.16	2.31	10	8.01	1.15
BR6-B-03	0.9	0.12	2.88	10	8.01	0.89
BR6-B-04	0.9	0.14	3.16	10	8.01	0.99
BR6-B-05	0.9	0.21	2.39	10	8.01	1.49
BR6-B-06	0.9	0.1	2.39	10	8.01	0.75
BR6-B-07	0.9	0.16	3.51	10	8.01	1.19
BR8-A-01	0.9	0.12	1.64	10	8.01	0.88
BR9-A-01	0.9	0.18	2.09	10	8.01	1.29
BR9-A-02	0.9	0.14	2.83	10	8.01	1.04
BR9-A-03	0.9	0.08	2.51	10	8.01	0.60
BR9-A-04	0.9	0.07	2.42	10	8.01	0.50
BR9-A-05	0.9	0.05	2.47	10	8.01	0.38
BR9-A-06	0.9	0.07	2.24	10	8.01	0.51
BR9-A-07	0.9	0.04	2.31	10	8.01	0.30
BR9-A-08	0.9	0.06	2.69	10	8.01	0.40
BR9-A-09	0.9	0.07	2.54	10	8.01	1.02
BR9-A-10	0.9	0.11	2.60	10	8.01	0.81
BR9-A-11	0.9	0.11	1.50	10	8.01	0.76
BR9-A-12	0.9	0.11	2.78	10	8.01	0.77
BR9-A-13	0.9	0.08	2.62	10	8.01	0.60
BR9-A-14	0.9	0.06	2.46	10	8.01	0.45
BR9-A-15	0.9	0.07	2.46	10	8.01	0.51
BR9-A-16	0.9	0.07	2.61	10	8.01	0.51
BR9-A-17	0.9	0.07	2.61	10	8.01	0.53
BR9-A-18	0.9	0.08	2.47	10	8.01	0.55
BR9-A-19	0.9	0.08	2.81	10	8.01	0.75
BR9-A-20	0.9	0.08	2.44	10	8.01	0.41
BR9-A-21	0.9	0.07	2.52	10	8.01	0.50
BR9-A-22	0.9	0.08	2.59	10	8.01	0.59
BR9-A-23	0.9	0.08	2.56	10	8.01	0.55
BR9-A-24	0.9	0.07	2.48	10	8.01	0.50
BR9-A-25	0.9	0.08	2.59	10	8.01	0.55
BR9-A-26	0.9	0.09	2.62	10	8.01	0.62
BR9-A-27	0.9	0.07	2.59	10	8.01	0.54
BR9-A-28	0.9	0.08	2.54	10	8.01	0.57
BR9-A-29	0.9	0.08	2.57	10	8.01	0.56
BR9-A-30	0.9	0.08	2.57	10	8.01	0.58
BR9-A-31	0.9	0.08	2.55	10	8.01	0.61
BR9-A-32	0.9	0.08	2.55	10	8.01	0.54
BR9-A-33	0.9	0.08	2.55	10	8.01	0.57
BR9-A-34	0.9	0.06	2.36	10	8.01	0.44
BR9-A-35	0.9	0.05	2.13	10	8.01	0.36
BR9-A-36	0.9	0.05	1.83	10	8.01	0.37
BR9-A-37	0.9	0.03	2.18	10	8.01	0.23
BR9-A-38	0.9	0.02	2.08	10	8.01	0.15
BR9-A-39	0.9	0.02	2.16	10	8.01	0.18
BR9-A-40	0.9	0.01	2.05	10	8.01	0.08
BR9-A-41	0.9	0.01	2.05	10	8.01	0.11
BR9-A-42	0.9	0.01	1.73	10	8.01	0.10
BR9-A-43	0.9	0.01	1.50	10	8.01	0.09

Area ID	Area Composite C Value	Drainage Area (AC)	Time of Concentration (Minutes)	Time Used (Minutes)	Intensity (In/Hr)	Discharge (CFS)
BR9-A-44	0.9	0.08	6.85	10	8.01	0.54
BR9-A-45	0.9	0.1	9.86	10	8.01	0.70
BR9-A-09A	0.9	0.07	2.54	10	0	0.00
BR9-A-45A	0.9	0.17	1.03	10	8.01	1.26

DRAINAGE AREA BRIDGES FREQUENCY -10YEAR						
Area ID	Area Composite C Value	Drainage Area (AC)	Time of Concentration (Minutes)	Time Used (Minutes)	Intensity (In/Hr)	Discharge (CFS)
BR3-A-01	0.9	0.16	3.08	10	8.01	1.19
BR3-A-02	0.9	0.04	2.80	10	8.01	0.26
BR3-A-03	0.9	0.05	2.24	10	8.01	0.39
BR3-A-04	0.9	0.1	3.18	10	8.01	0.71
BR3-A-05	0.9	0.08	3.00	10	8.01	0.57
BR3-A-06	0.9	0.08	2.99	10	8.01	0.57
BR3-A-07	0.9	0.08	2.98	10	8.01	0.57
BR3-A-08	0.9	0.08	2.99	10	8.01	0.57
BR3-A-10	0.9	0.11	3.28	10	8.01	0.77
BR3-A-11	0.9	0.08	3.06	10	8.01	0.59
BR3-A-12	0.9	0.08	3.02	10	8.01	0.59
BR3-A-13	0.9	0.07	3.02	10	8.01	0.54
BR3-A-14	0.9	0.08	3.02	10	8.01	0.55
BR3-A-15	0.9	0.08	3.07	10	8.01	0.57
BR3-A-16	0.9	0.08	3.12	10	8.01	0.61
BR3-A-17	0.9	0.09	3.16	10	8.01	0.62
BR4-A-16	0.9	0.14	2.56	10	8.01	1.03
BR4-A-17	0.9	0.14	3.89	10	8.01	0.99
BR4-A-19	0.9	0.16	3.15	10	8.01	1.13
BR4-A-21	0.9	0.18	3.76	10	8.01	1.29
BR4-A-22	0.9	0.17	3.76	10	8.01	1.25
BR4-A-23	0.9	0.15	3.76	10	8.01	1.06
BR4-A-24	0.9	0.13	3.76	10	8.01	0.91
BR4-A-25	0.9	0.1	3.76	10	8.01	0.70
BR4-A-26	0.9	0.15	3.08	10	8.01	1.06
BR5-A-01	0.9	0.12	2.99	10	8.01	0.87
BR5-A-02	0.9	0.09	2.55	10	8.01	0.63
BR5-A-03	0.9	0.04	1.37	10	8.01	0.32
BR5-A-04	0.9	0.04	1.31	10	8.01	0.29
BR6-B-19	0.9	0.16	1.93	10	8.01	1.18
BR6-B-20	0.9	0.13	1.93	10	8.01	0.93
BR6-B-21	0.9	0.06	1.93	10	8.01	0.41
BR9-A-09	0.9	0.14	2.54	10	8.01	1.02
BR10-A-01	0.9	0.05	2.16	10	8.01	0.39
BR10-A-02	0.9	0.02	2.16	10	8.01	0.15
BR10-A-03	0.9	0.03	1.72	10	8.01	0.18
BR10-A-04	0.9	0.04	1.90	10	8.01	0.32
BR10-A-05	0.9	0.17	2.75	10	8.01	1.20
BR10-A-06	0.9	0.11	3.98	10	8.01	0.82
BR10-A-07	0.9	0.22	2.34	10	8.01	1.58
BR10-A-08	0.9	0.02	1.30	10	8.01	0.17
BR10-A-09	0.9	0.16	4.54	10	8.01	1.15
BR3-A-01B	0.9	0.27	3.08	10	8.01	1.98
BR3-A-12A	0.9	0.08	3.08	10	8.01	0.60
BR3-A-12B	0.9	0.08	3.05	10	8.01	0.56
BR3-A-12C	0.9	0.09	3.11	10	8.01	0.62
BR3-A-12D	0.9	0.08	3.06	10	8.01	0.60
BR3-A-12E	0.9	0.05	2.70	10	8.01	0.33
BR5-A-01A	0.9	0.14	3.76	10	8.01	1.03
BR5-SLOT5	0.9	0.07	3.08	10	8.01	0.47
BR5-SLOT6	0.9	0.16	3.08	10	8.01	1.17
BR5-SLOT7	0.9	0.1	3.08	10	8.01	0.75
BR5-SLOT8	0.9	0.07	3.08	10	8.01	0.52
BR5-SLOT9	0.9	0.16	3.08	10	8.01	1.18
BR6-B--22	0.9	0.02	1.93	10	8.01	0.13
BR6-B--23	0.9	0.01	1.43	10	8.01	0.09
BR6-B--24	0.9	0.01	1.41	10	8.01	0.08
BR6-SLOT2	0.9	0.22	3.08	10	8.01	1.58
BR10-A-04A	0.9	0.14	2.63	10	8.01	1.01
BR10-A-05A	0.9	0.05	2.59	10	8.01	0.38
BR10-A-05B	0.9	0.1	2.59	10	8.01	0.71
BR10-SLOT1	0.9	0.18	4.54	10	8.01	1.27
BR11-SLOT1	0.9	0.15	3.08	10	8.01	1.11

DRAINAGE AREA BRIDGE 2 FREQUENCY -5YEAR						
Area ID	Area Composite C Value	Drainage Area (AC)	Time of Concentration (Minutes)	Time Used (Minutes)	Intensity (In/Hr)	Discharge (CFS)
BR2-A-01	0.9	0.16	1.03	10	6.89	1.00
BR2-A-02	0.9	0.19	1.77	10	6.89	1.20

DRAINAGE AREA BRIDGE 35 FREQUENCY -10YEAR						
Area ID	Area Composite C Value	Drainage Area (AC)	Time of Concentration (Minutes)	Time Used (Minutes)	Intensity (In/Hr)	Discharge (CFS)
BR35-A-01	0.9	0.18	2.61	10	8.01	1.32
BR35-A-02	0.9	0.12	2.61	10	8.01	0.87

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
0	RFC	10/10/2013
1	NDC 00050	12/20/2013
2	NDC 00126	07/15/2014



Pegasus Link Constructors,LLC



AECOM Technical Services, Inc.- F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
DRAINAGE HYDRAULIC DATA
AREA REPORT

FILE NAME: 042DA5302RPT
CONTROL: ECP0DR6897
DESIGN PACKAGE: RFC
SHEET: 02 OF 02

DESIGNED SP	FED. RD. DIV. NO.		FEDERAL AID PROJECT NO.		HIGHWAY NO.
	6	(SEE TITLE SHEET)	IH 30		
DRAWN BZ	STATE		DISTRICT	COUNTY	SHEET NO.
	TEXAS	DAL	DALLAS		
CHECKED SV	CONTROL		SECTION	JOB	DA5302
APPROVED SV	1068	04	116		

RELEASED FOR CONSTRUCTION

By Beth Blair at 9:09 am, Jul 31, 2014

Pegasus Link Constructors



P.srilakshmi 7/15/2014

Texas Department of Transportation
© 2014

042da5401rpt.dgn
P:\pdc\ss\042da5401rpt.dgn

Inlet ID	Node Library Item Name	Node Station	Node Reference Chain	Node Offset (ft)	Node Elevation (ft)	Inlet Type	Inlet Profile Type	Inlet Composite Spread Slope (%)	Inlet Grate Type	Inlet Grate Length (ft)	Inlet Grate Width (ft)	Inlet Grate Area (ft^2)	Inlet Grate Perimeter (ft)	Inlet Grate Clog Area Reduction	Inlet Grate Clog Perim. Reduction
DRAINAGE INLET CONFIGURATION SYSTEM F-A FREQUENCY -10YEAR															
F-A-02	CGI (TY I) -08 (10-FT)	220+74.42	DC5	8.00	396.09	Curb	On Grade	0.06	n/a	n/a	n/a	n/a	n/a	n/a	n/a
F-A-02B	DI - (TY C-2 GR) (DAL)	220+42.14	DC5	28.83	392.93	Grate	Sag	0.17	Parallel 1 7/8	4.73	2	8.97	13.25	0.5	0.5
F-A-03	RGI (TY II) -08 (10-FT)	219+22.40	DC5	8.00	398.57	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
F-A-02C	DI - (TY C-2 GR) (DAL)	219+77.66	DC5	-30.50	395.68	Grate	Sag	0.25	Parallel 1 7/8	4.73	2	8.97	13.25	0.5	0.5
F-A-04	RGI (TY II) -08 (15-FT)	216+28.00	DC5	8.00	400.25	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
DRAINAGE INLET CONFIGURATION SYSTEM F-B FREQUENCY -10YEAR															
F-B-02A	RGI (TY II) -08 (10-FT)	1034+69.66	35SBCD	-31.99	399.71	Curb	On Grade	0.01	n/a	n/a	n/a	n/a	n/a	n/a	n/a
DRAINAGE INLET CONFIGURATION SYSTEM F-C FREQUENCY -10YEAR															
F-C-02	RGI (TY II) -08 (10-FT)	1023+45.87	CD9	-7.59	396.14	Curb	On Grade	0.03	n/a	n/a	n/a	n/a	n/a	n/a	n/a
F-C-05	RW (RI) (1 GR)	5068+35.69	35SBML	-43.67	413.13	Grate	On Grade	0.04	Parallel 1 1/8	2.5	2.5	3.75	8	0.5	0.5
F-C-06	DI - (TY C-2 GR) (DAL)	1021+68.56	CD9	-12.38	393.53	Grate	Sag	0.17	Parallel 1 7/8	4.73	2	8.97	13.25	0.5	0.5
F-C-08	RW (RI) (1 GR)	5070+07.42	35SBML	-43.67	404.96	Grate	On Grade	0.02	Parallel 1 1/8	2.5	2.5	3.75	8	0.5	0.5
F-C-10	RW (RI) (1 GR)	5071+31.17	35SBML	-43.67	400.15	Grate	On Grade	0.02	Parallel 1 1/8	2.5	2.5	3.75	8	0.5	0.5
F-C-16	DI - (TY C-2 GR) (DAL)	1019+13.33	CD9	-12.92	395.89	Grate	Sag	0.17	Parallel 1 7/8	4.73	2	8.97	13.25	0.5	0.5
F-C-14	RGI (TY II) -08 (10-FT)	5072+92.01	35SBML	-46.00	396.14	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
F-C-14B	RW (RI) (2 GR)	1103+90.51	30EBML	31.53	398.43	Grate	On Grade	0.02	Parallel 1 1/8	4.79	2.5	7.19	12.58	0.5	0.5
DRAINAGE INLET CONFIGURATION SYSTEM F-E FREQUENCY -5YEAR															
F-E-01	DI - (TY C-2 GR) (DAL)	1028+28.40	35SBCD	25.96	394.00	Grate	Sag	0.17	Parallel 1 7/8	4.73	2	8.97	13.25	0.5	0.5
DRAINAGE INLET CONFIGURATION SYSTEM F-D FREQUENCY -10YEAR															
F-D-09	DI - (TY C-2 GR) (DAL)	5073+66.07	35HOV	-28.36	391.00	Grate	Sag	0.17	Parallel 1 7/8	4.73	2	8.97	13.25	0.5	0.5
F-D-10	DI - (TY C-2 GR) (DAL)	5078+15.41	35HOV	-23.31	396.79	Grate	Sag	0.17	Parallel 1 7/8	4.73	2	8.97	13.25	0.5	0.5
F-D-12	RGI (TY II) -08 (15-FT)	5079+77.36	35HOV	34.00	398.99	Curb	Sag	0.03	n/a	n/a	n/a	n/a	n/a	n/a	n/a
F-D-13	RGI (TY II) -08 (10-FT)	5077+60.05	35HOV	34.00	401.43	Curb	On Grade	0.03	n/a	n/a	n/a	n/a	n/a	n/a	n/a
F-D-12A	DI - (TY C-2 GR) (DAL)	5079+77.37	35HOV	41.39	398.00	Grate	Sag	0.17	Parallel 1 7/8	4.73	2	8.97	13.25	0.5	0.5
F-D-15	RGI (TY II) -08 (10-FT)	5075+02.56	35HOV	34.00	410.52	Curb	On Grade	0.03	n/a	n/a	n/a	n/a	n/a	n/a	n/a
DRAINAGE INLET CONFIGURATION SYSTEM F-G FREQUENCY -10YEAR															
F-G-02B	DI - (TY C-2 GR) (DAL)	19+88.81	RMP30	21.39	391.80	Grate	Sag	0.16	Parallel 1 7/8	4.73	2	8.97	13.25	0.5	0.5
F-G-04	DI - (TY C-2 GR) (DAL)	17+95.53	RMP30	17.57	390.61	Grate	Sag	0.25	Parallel 1 7/8	4.73	2	8.97	13.25	0.5	0.5
F-G-08	RGI (TY II) -08 (15-FT)	17+10.14	RMP30	10.89	393.14	Curb	Sag	0.06	n/a	n/a	n/a	n/a	n/a	n/a	n/a
F-G-11	DI - (TY C-2 GR) (DAL)	17+80.00	RMP30	-421.08	390.60	Grate	Sag	0.17	Parallel 1 7/8	4.73	2	8.97	13.25	0.5	0.5
F-G-08A	DI - (TY C-2 GR) (DAL)	16+54.58	RMP30	27.74	390.40	Grate	Sag	0.25	Parallel 1 7/8	4.73	2	8.97	13.25	0.5	0.5
F-G-10	DI - (TY C-2 GR) (DAL)	15+37.72	RMP30	-29.53	390.90	Grate	Sag	0.17	Parallel 1 7/8	4.73	2	8.97	13.25	0.5	0.5
F-G-10A	RGI (TY II) -08 (10-FT)	16+29.86	RMP30	-15.52	392.90	Curb	Sag	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
DRAINAGE INLET CONFIGURATION SYSTEM F-I FREQUENCY -10YEAR															
Inlet ID	Node Library Item Name	Node Station	Node Reference Chain	Node Offset (ft)	Node Elevation (ft)	Inlet Type	Inlet Profile Type	Inlet Composite Spread Slope (%)	Inlet Grate Type	Inlet Grate Length (ft)	Inlet Grate Width (ft)	Inlet Grate Area (ft^2)	Inlet Grate Perimeter (ft)	Inlet Grate Clog Area Reduction	Inlet Grate Clog Perim. Reduction
F-I-11	RW (RI) (1 GR)	505+09.16	35NBFR3	-1.32	404.11	Grate	On Grade	0.04	Parallel 1 1/8	2.5	2.5	3.75	8	0.5	0.5
F-I-12	RW (RI) (2 GR)	504+66.62	35NBFR3	-1.30	405.95	Grate	On Grade	0.04	Parallel 1 1/8	4.79	2.5	7.19	12.58	0.5	0.5
F-I-13	RGI (TY II) -08 (10-FT)	708+23.24	CD7	7.51	410.47	Curb	On Grade	0.05	n/a	n/a	n/a	n/a	n/a	n/a	n/a
F-I-14	RW (RI) (2 GR)	14+65.20	RMP31	5.59	408.53	Grate	On Grade	0.04	Parallel 1 1/8	4.79	2.5	7.19	12.58	0.5	0.5
F-I-15	RW (RI) (2 GR)	13+68.63	RMP31	20.62	411.20	Grate	On Grade	0.17	Parallel 1 1/8	4.79	2.5	7.19	12.58	0.5	0.5
F-I-16	RW (RI) (2 GR)	501+67.77	35NBFR3	-1.64	408.54	Grate	On Grade	0.04	Parallel 1 1/8	4.79	2.5	7.19	12.58	0.5	0.5
F-I-09	RW (RI) (2 GR)	500+02.67	35NBFR3	0.00	407.03	Grate	Sag	0.04	Parallel 1 1/8	4.79	2.5	7.19	12.58	0.5	0.5
F-I-17	DI - (TY C-1 GR) (DAL)	499+58.39	35NBFR3	19.19	405.28	Grate	Sag	0.1	Parallel 1 7/8	2.38	2	4.5	8.54	0.5	0.5
F-I-18	DI - (TY C-1 GR) (DAL)	499+19.97	35NBFR3	18.55	406.10	Grate	Sag	0.1	Parallel 1 7/8	2.38	2	4.5	8.54	0.5	0.5
F-I-10	CGI (TY I) -08 (10-FT)	497+68.88	35NBFR3	2.00	410.56	Curb	On Grade	0.03	n/a	n/a	n/a	n/a	n/a	n/a	n/a
DRAINAGE INLET CONFIGURATION SYSTEM F-J FREQUENCY -10YEAR															
F-J-24	RGI (TY II) -08 (15-FT)	710+67.01	CD7	7.98	399.14	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
F-J-04	DI - (TY C-1 GR) (DAL)	712+41.21	CD7	-36.02	396.45	Grate	Sag	0.17	Parallel 1 7/8	2.38	2	4.5	8.54	0.5	0.5
F-J-22	RGI (TY II) -08 (5-FT)	711+61.16	CD7	7.50	397.19	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
F-J-18	RGI (TY II) -08 (15-FT)	712+50.36	CD7	8.00	396.56	Curb	Sag	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
F-J-23	CGI (TY I) -08 (10-FT)	507+70.00	35NBFR3	2.00	395.80	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
F-J-19	CGI (TY I) -08 (10-FT)	508+41.65	35NBFR3	2.79	394.63	Curb	Sag	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
F-J-20	CGI (TY I) -08 (10-FT)	510+02.51	35NBFR3	-0.01	395.63	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
F-J-21	CGI (TY I) -08 (10-FT)	512+57.12	35NBFR3	0.00	395.78	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
F-J-16	RW (RI) (2 GR)	5077+91.36	35NBML	71.35	404.35	Grate	On Grade	0.02	Parallel 1 1/8	4.79	2.5	7.19	12.58	0.5	0.5
F-J-17	RW (RI) (2 GR)	714+43.82	CD7	5.67	398.94	Grate	On Grade	0.02	Parallel 1 1/8	4.79	2.5	7.19	12.58	0.5	0.5
F-J-07	RGI (TY II) -08 (10-FT)	107+70.19	DC1	8.01	400.86	Curb	Sag	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
F-J-15	RW (RI) (2 GR)	5078+71.31	35NBML	75.68	402.10	Grate	On Grade	0.02	Parallel 1 1/8	4.79	2.5	7.19	12.58	0.5	0.5
F-J-09	RW (RI) (2 GR)	716+65.73	CD7	5.67	402.70	Grate	On Grade	0.02	Parallel 1 1/8	4.79	2.5	7.19	12.58	0.5	0.5
F-J-14	RGI (TY II) -08 (10-FT)	5080+54.01	35NBML	46.00	400.40	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
F-J-10	RGI (TY II) -08 (10-FT)	108+59.28	DC1	8.00	401.50	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
DRAINAGE INLET CONFIGURATION SYSTEM F-L FREQUENCY -10YEAR															
Inlet ID	Node Library Item Name	Node Station	Node Reference Chain	Node Offset (ft)	Node Elevation (ft)	Inlet Type	Inlet Profile Type	Inlet Composite Spread Slope (%)	Inlet Grate Type	Inlet Grate Length (ft)	Inlet Grate Width (ft)	Inlet Grate Area (ft^2)	Inlet Grate Perimeter (ft)	Inlet Grate Clog Area Reduction	Inlet Grate Clog Perim. Reduction
F-L-02	CGI (TY I) -08 (10-FT)	16+55.67	RMP5	8.00	394.25	Curb	Sag	0.03	n/a	n/a	n/a	n/a	n/a	n/a	n/a
DRAINAGE INLET CONFIGURATION SYSTEM F-M FREQUENCY -10YEAR															
F-M-10	DI - (TY C-2 GR) (DAL)	1007+83.65	CD4	-37.52	422.20	Grate	Sag	0.17	Parallel 1 7/8	4.73	2	8.97	13.25	0.5	0.5
F-M-07	RW (RI) (2 GR)	5057+84.18	35NBML	-7.31	420.65	Grate	Sag	0.04	Parallel 1 1/8	4.79	2.5	7.19	12.58	0.5	0.5
F-M-09	CGI (TY I) -08 (15-FT)	1007+55.53	CD4	-27.98	424.21	Curb	On Grade	0.03	n/a	n/a	n/a	n/a	n/a	n/a	n/a
F-M-05	RW (RI) (2 GR)	5056+22.17	35NBML	-7.58	421.95	Grate	On Grade	0.04	Parallel 1 1/8	4.79	2.5	7.19	12.58	0.5	0.5
F-M-01	RW (RI) (2 GR)	5055+68.66	35NBML	-7.49	422.96	Grate	On Grade	0.04	Parallel 1 1/8	4.79	2.5	7.19	12.58	0.5	0.5
DRAINAGE INLET CONFIGURATION SYSTEM F-N FREQUENCY -10YEAR															
F-N-02	RGI (TY II) -08 (10-FT)	510+80.41	35NBFR2	7.49	398.19	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
F-N-03	RGI (TY II) -08 (10-FT)	510+31.79	35NBFR2	7.92	400.19	Curb	On Grade	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a
F-N-07	DI - (TY C-2 GR) (DAL)	508+59.41	35NBFR2	24.83	396.20	Grate	Sag	0.17	Parallel 1 7/8	4.73	2	8.97	13.25	0.5	0.5
F-N-06	RW (RI) (2 GR)	508+89.64	35NBFR2	5.66	409.86	Grate	On Grade	0.02	Parallel 1 1/8	4.79	2.5	7.19	12.58	0.5	0.5
DRAINAGE INLET CONFIGURATION SYSTEM F-P FREQUENCY -10YEAR															
F-P-01	CGI (TY I) -08 (15-FT)	504+26.36	35NBFR3	9.02	397.50	Curb	Sag	0.05	n/a	n/a	n/a	n/a	n/a	n/a	n/a
F-P-02	CGI (TY I) -08 (15-FT)	508+39.87	35NBFR3	14.68	395.00	Curb	Sag	0.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
0	RFC	10/10/2013
1	NDC 00049	12/20/2013
2	NDC 00082	04/21/2014
3	NDC 00114	06/20/2014

DRAINAGE INLET CONFIGURATION BRIDGES
FREQUENCY - 10 YEAR

Inlet ID	Node Library Item Name	Node Station	Node Reference Chain	Node Offset (ft)	Node Elevation (ft)	Inlet Type	Inlet Profile Type	Inlet Composite Spread Slope (%)	Inlet Grate Type	Inlet Grate Length (ft)	Inlet Grate Width (ft)	Inlet Grate Area (ft^2)	Inlet Grate Perimeter (ft)	Inlet Grate Clog Area Reduction	Inlet Grate Clog Perim. Reduction
BR4-A-01	BD-2	5031+62.08	35SBML	5.79	449.79	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR4-A-02	BD-2	5032+11.60	35SBML	5.79	450.05	Grate	On Grade	0.01	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR4-A-03	BD-2	5032+49.59	35SBML	5.79	450.25	Grate	On Grade	0.01	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR4-A-04	BD-2	5032+86.58	35SBML	5.80	450.46	Grate	On Grade	0.01	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR4-A-05	BD-2	5033+08.72	35SBML	5.82	450.57	Grate	On Grade	0.01	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR4-A-06	BD-2	5033+14.21	35SBML	5.80	450.62	Grate	On Grade	0.01	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR4-A-07	BD-2	5033+22.08	35SBML	5.79	450.66	Grate	On Grade	0.01	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR4-A-08	BD-2	5037+13.46	35SBML	-53.79	451.57	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR4-A-09	BD-2	5038+14.97	35SBML	-53.56	452.08	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR4-A-10	BD-2	5038+80.00	35SBML	-53.79	452.40	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR6-A-02	BD-2	5025+71.53	35NBML	-16.07	449.61	Grate	On Grade	0.06	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR6-A-03	BD-2	5027+80.46	35NBML	-16.04	451.11	Grate	On Grade	0.06	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR6-A-04	BD-2	5029+98.50	35NBML	-16.48	451.87	Grate	On Grade	0.04	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR6-A-05	BD-2	5032+11.85	35NBML	-16.73	452.69	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR6-A-06	BD-2	5034+32.94	35NBML	-15.71	453.50	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR6-A-07	BD-2	5035+91.81	35NBML	-13.60	454.06	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR6-A-08	BD-2	5038+31.81	35NBML	-13.22	454.89	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR6-A-09	BD-2	5039+94.35	35NBML	-14.22	455.48	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR6-A-10	BD-2	5040+91.81	35NBML	-13.67	455.80	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR6-A-11	BD-2	5042+60.65	35NBML	-13.68	456.40	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR6-A-12	BD-2	5043+51.81	35NBML	-13.22	456.71	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR6-A-13	BD-2	5044+76.64	35NBML	-13.22	457.15	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR6-B-01	BD-2	1003+17.79	35NBCD	58.51	446.96	Grate	On Grade	0.04	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR6-B-02	BD-2	5030+58.03	35NBML	41.67	450.34	Grate	On Grade	0.03	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR6-B-03	BD-2	5035+91.81	35NBML	41.79	452.90	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR6-B-04	BD-2	5036+70.00	35NBML	41.79	453.18	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR6-B-05	BD-2	5037+70.00	35NBML	41.79	453.53	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR6-B-06	BD-2	5043+51.81	35NBML	41.58	455.56	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR6-B-07	BD-2	5044+20.00	35NBML	41.59	455.80	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR8-A-01	BD-2	527+04.34	35NBFR1	6.25	441.41	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-01	BD-2	528+80.52	35NBFR1	2.94	447.49	Grate	On Grade	0.03	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-02	BD-2	1005+08.14	35NBCD	86.72	448.30	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-03	BD-2	1005+70.06	35NBCD	81.17	449.14	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-04	BD-2	1006+12.96	35NBCD	79.88	449.45	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-05	BD-2	1006+49.02	35NBCD	77.06	449.71	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-06	BD-2	1006+74.19	35NBCD	75.27	449.88	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-07	BD-2	1007+17.18	35NBCD	72.60	450.17	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-08	BD-2	1007+39.56	35NBCD	71.47	450.32	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-09	BD-2	1007+78.84	35NBCD	69.86	450.57	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-10	BD-2	1008+63.58	35NBCD	67.35	451.09	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-11	BD-2	1009+28.02	35NBCD	66.64	451.46	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-12	BD-2	1010+66.71	35NBCD	66.29	451.59	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-13	BD-2	1011+16.81	35NBCD	66.28	451.37	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-14	BD-2	1011+52.00	35NBCD	66.27	451.24	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-15	BD-2	1011+93.34	35NBCD	66.30	451.10	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-16	BD-2	1012+38.56	35NBCD	66.30	450.94	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-17	BD-2	1012+82.46	35NBCD	66.32	450.79	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-18	BD-2	1013+21.07	35NBCD	66.31	450.65	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-19	BD-2	1013+71.70	35NBCD	66.41	450.47	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-20	BD-2	1014+21.91	35NBCD	66.28	450.30	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-21	BD-2	1014+63.21	35NBCD	66.27	450.16	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-22	BD-2	1015+11.02	35NBCD	66.24	449.99	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-23	BD-2	1015+55.82	35NBCD	66.28	449.83	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-24	BD-2	1015+97.27	35NBCD	66.27	449.69	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-25	BD-2	1016+43.48	35NBCD	66.32	449.52	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-26	BD-2	1016+92.21	35NBCD	66.28	449.35	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-27	BD-2	1017+36.92	35NBCD	66.33	449.20	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-28	BD-2	1017+85.30	35NBCD	66.28	449.03	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-29	BD-2	1018+32.69	35NBCD	66.30	448.86	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-30	BD-2	1018+80.73	35NBCD	66.33	448.69	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-31	BD-2	1019+31.95	35NBCD	66.28	448.51	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-32	BD-2	1019+76.75	35NBCD	67.03	448.34	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-33	BD-2	1020+23.98	35NBCD	67.04	448.17	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-34	BD-2	1020+59.47	35NBCD	67.03	448.21	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-35	BD-2	1020+89.88	35NBCD	66.28	448.29	Grate	On Grade	0.01	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-36	BD-2	1021+19.89	35NBCD	66.28	448.26	Grate	On Grade	0.01	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-37	BD-2	1021+37.75	35NBCD	66.34	448.24	Grate	On Grade	0.01	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-38	BD-2	1021+48.84	35NBCD	66.38	448.19	Grate	On Grade	0.01	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-39	BD-2	1021+63.10	35NBCD	66.53	448.10	Grate	On Grade	0.01	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-40	BD-2	1021+70.37	35NBCD	66.62	448.06	Grate	On Grade	0.01	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-41	BD-2	1021+79.36	35NBCD	66.73	447.99	Grate	On Grade	0.01	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-42	BD-2	1021+87.09	35NBCD	66.89	447.91	Grate	On Grade	0.01	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-43	BD-2	1021+94.00	35NBCD	66.98	447.86	Grate	On Grade	0.01	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-44	BD-2	1024+13.84	35NBCD	0.21	442.30	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-45	BD-2	1025+36.72	35NBCD	0.22	437.29	Grate	On Grade	0.03	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-09A	BD-2	1008+25.60	35NBCD	68.49	450.86	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-45A	BD-2	1024+54.78	35NBCD	0.2	440.67	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-45B	BD-2	1024+92.19	35NBCD	-0.13	439.13	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
O	RFC	10/10/2013
1	NDC 00050	12/20/2013

P:\D\CS\$ 042da5403rpt.dgn

DRAINAGE INLET CONFIGURATION BRIDGES
FREQUENCY - 10YEAR

Inlet ID	Node Library Item Name	Node Station	Node Reference Chain	Node Offset (ft)	Node Elevation (ft)	Inlet Type	Inlet Profile Type	Inlet Composite Spread Slope (%)	Inlet Grate Type	Inlet Grate Length (ft)	Inlet Grate Width (ft)	Inlet Grate Area (ft^2)	Inlet Grate Perimeter (ft)	Inlet Grate Clog Area Reduction	Inlet Grate Clog Perim. Reduction
BR3-A-01	BD-2	1008+66.74	35SBCD	3.34	450.83	Grate	On Grade	0.04	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR3-A-02	BD-2	1013+17.81	35SBCD	-50.75	448.87	Grate	On Grade	0.01	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR3-A-03	BD-2	1013+51.94	35SBCD	-50.75	448.54	Grate	On Grade	0.01	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR3-A-04	BD-2	1014+14.21	35SBCD	-50.75	448.02	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR3-A-05	BD-2	1014+70.42	35SBCD	-50.75	447.82	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR3-A-06	BD-2	1015+26.63	35SBCD	-50.75	447.62	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR3-A-07	BD-2	1015+82.84	35SBCD	-50.75	447.42	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR3-A-08	BD-2	1016+39.05	35SBCD	-50.75	447.22	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR3-A-10	BD-2	1017+13.46	35SBCD	-52.85	446.92	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR3-A-11	BD-2	1017+72.33	35SBCD	-52.88	446.71	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR3-A-12	BD-2	1018+31.32	35SBCD	-53.13	446.49	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR3-A-13	BD-2	1021+32.86	35SBCD	-61.59	445.26	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR3-A-14	BD-2	1021+77.54	35SBCD	-62.87	445.07	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR3-A-15	BD-2	1022+23.59	35SBCD	-64.51	444.87	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR3-A-16	BD-2	1022+70.95	35SBCD	-69.41	444.61	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR3-A-17	BD-2	1023+17.37	35SBCD	-71.68	444.40	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR4-A-16	BD-2	5045+02.09	35SBML	-60.39	451.21	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR4-A-17	BD-2	5045+77.97	35SBML	-61.74	450.70	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR4-A-19	BD-2	5046+65.02	35SBML	-63.19	450.12	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR4-A-21	BD-2	5049+90.36	35SBML	-65.77	448.01	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR4-A-22	BD-2	5050+79.87	35SBML	-65.77	447.45	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR4-A-23	BD-2	5051+55.93	35SBML	-41.75	446.96	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR4-A-24	BD-2	5052+22.08	35SBML	-41.79	446.54	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR4-A-25	BD-2	5052+70.00	35SBML	-41.79	446.24	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR4-A-26	BD-2	5053+48.00	35SBML	-41.79	445.75	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR5-A-01	BD-2	5049+02.07	35HOV	29.82	452.39	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR5-A-02	BD-2	5050+01.08	35HOV	29.82	449.52	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR5-A-03	BD-2	5050+47.69	35HOV	29.82	448.17	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR5-A-04	BD-2	5050+93.74	35HOV	29.82	446.83	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR6-B-19	BD-2	5048+76.34	35NBML	41.79	451.02	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR6-B-20	BD-2	5049+78.76	35NBML	41.79	447.26	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR6-B-21	BD-2	5050+33.30	35NBML	41.79	445.07	Grate	On Grade	0.01	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR9-A-08	BD-2	1007+39.56	35NBCD	71.47	450.32	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR10-A-01	BD-2	14+67.24	RMP6	-3.25	444.33	Grate	Sag	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR10-A-02	BD-2	14+79.65	RMP6	-3.25	444.35	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR10-A-03	BD-2	15+08.13	RMP6	-3.25	444.50	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR10-A-04	BD-2	15+36.10	RMP6	-3.25	444.81	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR10-A-05	BD-2	18+00.08	RMP6	-3.25	455.29	Grate	On Grade	0.03	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR10-A-06	BD-2	23+70.00	RMP6	15.25	467.34	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR10-A-07	BD-2	32+66.73	RMP6	17.90	448.56	Grate	On Grade	0.03	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR10-A-08	BD-2	33+20.00	RMP6	16.75	445.27	Grate	On Grade	0.01	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR10-A-09	BD-2	26+61.66	RMP6	18.54	467.57	Grate	On Grade	0.06	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR3-A-01B	BD-2	1007+67.91	35SBCD	4.51	451.13	Grate	On Grade	0.04	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR3-A-12A	BD-2	1018+90.62	35SBCD	-52.77	446.29	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR3-A-12B	BD-2	1019+48.78	35SBCD	-54.48	446.05	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR3-A-12C	BD-2	1020+06.78	35SBCD	-56.85	445.80	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR3-A-12D	BD-2	1020+58.91	35SBCD	-59.42	445.56	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR3-A-12E	BD-2	1020+87.10	35SBCD	-60.57	445.44	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR5-A-01A	BD-2	5047+30.58	35NBML	-15.05	455.83	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR6-B-22	BD-2	5050+48.34	35NBML	41.79	444.43	Grate	On Grade	0.01	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR6-B-23	BD-2	5050+57.21	35NBML	41.79	444.06	Grate	On Grade	0.01	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR6-B-24	BD-2	5050+65.07	35NBML	41.79	443.73	Grate	On Grade	0.01	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR10-A-04A	BD-2	16+00.80	RMP6	-3.25	446.14	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR10-A-05A	BD-2	22+34.08	RMP6	-3.35	467.06	Grate	On Grade	0.03	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR10-A-05B	BD-2	20+48.62	RMP6	-3.53	466.19	Grate	On Grade	0.06	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5

DRAINAGE INLET CONFIGURATION BRIDGE 2 FREQUENCY -5YEAR

Inlet ID	Node Library Item Name	Node Station	Node Reference Chain	Node Offset (ft)	Node Elevation (ft)	Inlet Type	Inlet Profile Type	Inlet Composite Spread Slope (%)	Inlet Grate Type	Inlet Grate Length (ft)	Inlet Grate Width (ft)	Inlet Grate Area (ft^2)	Inlet Grate Perimeter (ft)	Inlet Grate Clog Area Reduction	Inlet Grate Clog Perim. Reduction
BR2-A-01	BD-2	507+24.20	35SBFR1	-16.26	441.79	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR2-A-02	BD-2	507+98.26	35SBFR1	-16.26	445.45	Grate	On Grade	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5

DRAINAGE INLET CONFIGURATION BRIDGE 35 FREQUENCY -10YEAR

Inlet ID	Node Library Item Name	Node Station	Node Reference Chain	Node Offset (ft)	Node Elevation (ft)	Inlet Type	Inlet Profile Type	Inlet Composite Spread Slope (%)	Inlet Grate Type	Inlet Grate Length (ft)	Inlet Grate Width (ft)	Inlet Grate Area (ft^2)	Inlet Grate Perimeter (ft)	Inlet Grate Clog Area Reduction	Inlet Grate Clog Perim. Reduction
BR35-A-1	BD-2	11+43.12	BRIDGE35	0.35	438.71	Grate	Sag	0.02	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5
BR35-A-2	BD-2	13+16.91	BRIDGE35	10.64	432.75	Grate	On Grade	0.03	Parallel 1 1/8	3.44	1.18	2.43	8.1	0.5	0.5

1

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
O	RFC	10/10/2013
1	NDC 00126	07/15/2014



Pegasus Link Constructors,LLC

AECOM

AECOM Technical Services, Inc.- F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
DRAINAGE HYDRAULIC DATA
INLET CONFIGURATION

FILE NAME:
042DA5403RPT
CONTROL:
ECP0DR6897
DESIGN PACKAGE:
RFC
SHEET:
03 OF 03

RELEASED FOR CONSTRUCTION

By Beth Blair at 9:09 am, Jul 31, 2014

Pegasus Link Constructors



P.srilakshmi 7/15/2014

Texas Department of Transportation
© 2014

DESIGNED	SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
DRAWN	BZ	6	(SEE TITLE SHEET)	1H 30
CHECKED	SV	STATE	DISTRICT	COUNTY
APPROVED	SV	TEXAS	DAL	DALLAS
		CONTROL	SECTION	JOB
		1068	04	116

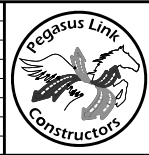
DA5403

P:\D\CS\$ 042da5403rpt.dgn

7/15/2014 7:23:24 PM

DRAINAGE INLET HYDRAULICS SYSTEM F-A FREQUENCY -10YEAR															
Inlet ID	Inlet Type	Inlet Profile Type	Node Station	Inlet Discharge (CFS)	Inlet Capacity (CFS)	Inlet By Pass Flow Into (CFS)	Inlet By Pass Flow (CFS)	Inlet By Pass Node ID	Inlet Computed Poned Width (ft)	Inlet Max Poned Width (ft)	Inlet Computed Poned Depth (ft)	Inlet Max Poned Depth (ft)	Inlet Longitudinal Slope (%)	Node Junction Loss (ft)	Inlet Spread Manning's N Value
F-A-02	Curb	On Grade	220+74.42	0.68	0.68	0.01	0		3.18	8	0.19	0.47	0.87	0.04	0.015
F-A-02B	Grate	Sag	220+42.14	1.25	20.45	0	0		2.26	12	0.15	1.00	n/a	0	0.015
F-A-03	Curb	On Grade	219+22.40	1.29	1.28	0	0.01	F-A-02	7.29	8	0.15	0.16	1.39	0	0.015
F-A-02C	Grate	Sag	219+77.66	2.09	20.45	0	0		2.42	8	0.22	1.00	n/a	0.01	0.015
F-A-04	Curb	On Grade	216+28.00	0.81	1.00	0.18	0	F-A-03	7.99	8	0.16	0.16	0.51	0	0.015
DRAINAGE INLET HYDRAULICS SYSTEM F-B FREQUENCY -10YEAR															
F-B-02A	Curb	On Grade	1034+69.66	0.71	0.69	0	0.02	F-C-02	7.68	8	0.08	0.08	3.2	0	0.015
DRAINAGE INLET HYDRAULICS SYSTEM F-C FREQUENCY -10YEAR															
F-C-02	Curb	On Grade	1023+45.87	2.56	2.28	0.02	0.27	F-C-06	7.56	7.7	0.21	0.20	1.61	0.01	0.015
F-C-05	Grate	On Grade	5068+35.69	2.74	2.30	0	0.44	F-C-08	5.23	10	0.19	0.36	5.36	0.01	0.015
F-C-06	Grate	Sag	1021+68.56	6.57	20.45	0.27	0		4.18	12	0.47	1.00	n/a	0.01	0.015
F-C-08	Grate	On Grade	5070+07.42	1.81	1.34	0.44	0.47	F-C-10	6.64	10	0.13	0.20	4.52	0	0.015
F-C-10	Grate	On Grade	5071+31.17	1.71	1.25	0.47	0.46	F-C-14	6.91	10	0.14	0.20	3.27	0	0.015
F-C-16	Grate	Sag	1019+13.33	7.10	20.45	0.29	0		5.78	12	0.49	1.00	n/a	0.04	0.015
F-C-14	Curb	On Grade	5072+92.01	2.20	1.91	0.46	0.29	F-C-16	8.48	10	0.17	0.20	1.81	0.01	0.015
F-C-14B	Grate	On Grade	1103+90.51	1.22	0.99	0	0.23		7.55	10	0.13	0.83	1.71	0	0.015
DRAINAGE INLET HYDRAULICS SYSTEM F-D FREQUENCY -10YEAR															
F-D-09	Grate	Sag	5073+66.07	11.69	3.05	0	0		5.67	12	0.69	1.00	n/a	0.37	0.015
F-D-10	Grate	Sag	5078+15.41	8.51	3.05	0	0		5.03	12	0.56	1.00	n/a	0.17	0.015
F-D-12	Curb	Sag	5079+77.36	3.10	7.30	0.23	0		5.65	10	0.16	0.28	n/a	0.22	0.015
F-D-13	Curb	On Grade	5077+60.05	2.17	1.94	0.41	0.23	F-D-12	6.55	10	0.18	0.28	2.24	0.01	0.015
F-D-12A	Grate	Sag	5079+77.37	5.80	20.45	0	0		5.43	12	0.43	1.00	n/a	0.05	0.015
F-D-15	Curb	On Grade	5075+02.56	2.07	1.66	0	0.41	F-D-13	5.56	10	0.16	0.20	4.9	0	0.015
DRAINAGE INLET HYDRAULICS SYSTEM F-E FREQUENCY -5YEAR															
F-E-01	Grate	Sag	1028+28.40	8.34	20.45	0	0		5.23	8	0.55	1.00	n/a	0.11	0.015
DRAINAGE INLET HYDRAULICS SYSTEM F-G FREQUENCY -10YEAR															
F-G-02B	Grate	Sag	19+88.81	9.53	20.45	0	0		6.96	10	0.6	1.00	n/a	0.14	0.015
F-G-04	Grate	Sag	17+95.53	2.64	20.45	0	0		2.50	8	0.26	1.00	n/a	0.01	0.015
F-G-08	Curb	Sag	17+10.14	0.37	22.71	0	0		5.71	10	0.04	0.60	n/a	0.01	0.015
F-G-11	Grate	Sag	17+72.53	11.55	29.51	0	0		5.45	12	0.68	1.50	n/a	0.21	0.015
F-G-08A	Grate	Sag	16+54.58	1.27	20.45	0	0		2.39	8	0.16	1.00	n/a	0	0.015
F-G-10	Grate	Sag	15+37.72	3.17	7.23	0	0		3.59	12	0.29	0.50	n/a	0.02	0.015
F-G-10A	Curb	Sag	16+29.86	0.51	13.25	0	0		4.46	4.6	0.06	0.50	n/a	0	0.015
DRAINAGE INLET HYDRAULICS SYSTEM F-I FREQUENCY -10YEAR															
Inlet ID	Inlet Type	Inlet Profile Type	Node Station	Inlet Discharge (CFS)	Inlet Capacity (CFS)	Inlet By Pass Flow Into (CFS)	Inlet By Pass Flow (CFS)	Inlet By Pass Node ID	Inlet Computed Poned Width (ft)	Inlet Max Poned Width (ft)	Inlet Computed Poned Depth (ft)	Inlet Max Poned Depth (ft)	Inlet Longitudinal Slope (%)	Node Junction Loss (ft)	Inlet Spread Manning's N Value
F-I-11	Grate	On Grade	505+09.16	0.49	0.49	0	0	F-J-23	2.58	12	0.11	0.48	4.33	0	0.015
F-I-12	Grate	On Grade	504+66.62	0.67	0.67	0	0		2.93	12	0.12	0.48	4.15	0	0.015
F-I-13	Curb	On Grade	708+23.24	1.17	1.11	0	0.06	F-J-24	3.01	8	0.15	0.16	6.34	0	0.015
F-I-14	Grate	On Grade	14+65.20	2.43	2.18	0	0.25	F-J-23	4.81	6	0.17	0.21	6.54	0.01	0.015
F-I-15	Grate	On Grade	13+68.63	1.40	1.40	0	0		2.06	8	0.34	0.26	6.42	0	0.015
F-I-16	Grate	On Grade	501+67.77	0.48	0.48	0	0	F-I-09	3.01	12	0.12	0.48	2.17	0	0.015
F-I-09	Grate	Sag	500+02.67	2.85	6.46	0.06	0		6.95	12	0.28	0.48	n/a	1.3	0.015
F-I-17	Grate	Sag	499+58.39	5.10	12.10	0	0		5.31	12	0.53	1.00	n/a	0.94	0.015
F-I-18	Grate	Sag	499+19.97	5.48	12.10	0	0		6.70	12	0.56	1.00	n/a	0.13	0.015
F-I-10	Curb	On Grade	497+68.88	1.47	1.41	0	0.06	F-I-09	4.82	12	0.15	0.38	3.43	0	0.015
DRAINAGE INLET HYDRAULICS SYSTEM F-J FREQUENCY -10YEAR															
F-J-24	Curb	On Grade	710+67.01	1.55	1.55	0.06	0	F-J-22	6.84	8	0.14	0.16	2.84	0	0.015
F-J-04	Grate	Sag	712+41.21	1.55	12.10	0	0		1.94	12	0.24	1.00	n/a	0.16	0.015
F-J-22	Curb	On Grade	711+61.16	0.74	0.61	0	0.13	F-J-18	5.92	8	0.12	0.16	1.38	0	0.015
F-J-18	Curb	Sag	712+50.36	2.25	12.39	0.46	0		6.74	8	0.13	0.40	n/a	0.07	0.015
F-J-23	Curb	On Grade	507+70.00	1.62	1.57	0.25	0.05	F-J-19	7.84	12	0.16	0.03	1.49	0	0.015
F-J-19	Curb	Sag	508+41.65	2.41	12.52	0.05	0		8.36	12	0.17	0.50	n/a	0.05	0.015
F-J-20	Curb	On Grade	510+02.51	2.04	2.04	0	0	F-J-19	10.82	12	0.22	0.50	0.43	0.01	0.015
F-J-21	Curb	On Grade	512+57.12	1.37	1.63	0.26	0	F-J-20	9.03	12	0.18	0.50	0.71	0	0.015
F-J-16	Grate	On Grade	5077+91.36	1.11	0.94	0	0.17	F-J-15	6.10	8	0.12	0.15	3.1	0	0.015
F-J-17	Grate	On Grade	714+43.82	1.68	1.34	0.35	0.33	F-J-18	7.77	8	0.16	0.16	1.67	0	0.015
F-J-07	Curb	Sag	107+70.19	1.63	2.40	0.44	0		6.40	8	0.12	0.16	n/a	0.05	0.015
F-J-15	Grate	On Grade	5078+71.31	2.22	1.78	0.17	0.44	F-J-07	7.18	8	0.18	0.15	2.27	0.01	0.015
F-J-09	Grate	On Grade	716+65.73	1.72	1.37	0	0.35	F-J-17	7.55	8	0.15	0.16	2.07	0	0.015
F-J-14	Curb	On Grade	5080+54.01	2.14	2.14	0	0		9.81	10	0.24	0.25	0.4	0.01	0.015
F-J-10	Curb	On Grade	108+59.28	0.82	0.82	0	0	F-J-15	6.20	8	0.12	0.16	1.34	0	0.015
DRAINAGE INLET HYDRAULICS SYSTEM F-L FREQUENCY -10YEAR															
Inlet ID	Inlet Type	Inlet Profile Type	Node Station	Inlet Discharge (CFS)	Inlet Capacity (CFS)	Inlet By Pass Flow Into (CFS)	Inlet By Pass Flow (CFS)	Inlet By Pass Node ID	Inlet Computed Poned Width (ft)	Inlet Max Poned Width (ft)	Inlet Computed Poned Depth (ft)	Inlet Max Poned Depth (ft)	Inlet Longitudinal Slope (%)	Node Junction Loss (ft)	Inlet Spread Manning's N Value
F-L-02	Curb	Sag	16+55.67	2.20	3.48	0	0		5.90	8	0.16	0.21	n/a	0.01	0.015
DRAINAGE INLET HYDRAULICS SYSTEM F-M FREQUENCY -10YEAR															
F-M-10	Grate	Sag	1007+83.65	0.90	6.12	0	0		1.91	7.8	0.12	0.45	n/a	0.01	0.015
F-M-07	Grate	Sag	5057+84.18	4.13	5.86	0.03	0		7.91	10	0.36	0.45	n/a	0.03	0.015
F-M-09	Curb	On Grade	1007+55.53	2.10	2.10	0	0		7.31	7.8	0.21	0.45	1.15	0.01	0.015
F-M-05	Grate	On Grade	5056+22.17	1.05	1.02	0.28	0.03	F-M-07	3.96	10	0.18	0.45	1.62	0	0.015
F-M-01	Grate	On Grade	5055+68.66	2.74	2.46	0	0.28	F-M-05	5.36	10	0.24	0.45	2.15	0.01	0.015
DRAINAGE INLET HYDRAULICS SYSTEM F-N FREQUENCY -10YEAR															
F-N-02	Curb	On Grade	510+80.41	1.19	1.14	0.45	0.06		5.42	10	0.13	0.26	3.32	0.05	0.015
F-N-03	Curb	On Grade	510+31.79	1.78	1.34	0.4	0.45	F-N-02	6.02	10	0.12	0.20	6.84	0.03	0.015
F-N-07	Grate	Sag	508+59.41	2.11	20.45	0	0		2.13	12	0.22	1.00	n/a	0.01	0.015
F-N-06	Grate	On Grade	508+89.64	1.96	1.56	0	0.4	F-N-03	6.32	10	0.13	0.20	6.84	0	0.015
DRAINAGE INLET HYDRAULICS SYSTEM F-P FREQUENCY -10YEAR															
F-P-01	Curb	Sag	504+26.36	16.80	12.97	0	0		7.84	8	0.39	0.40	n/a	0.44	0.015
F-P-02	Curb	Sag	508+39.87	8.11	46.92	0	0		14.10	35	0.31	1.00	n/a	0.1	0.015

NO.	DESCRIPTION	DATE
OC	REVISED	07/05/2013
C	FINAL	09/09/2013
0	RFC	10/10/2013
1	NDC 00049	12/20/2013
2	NDC 00064	03/04/2014
3	NDC 00114	06/20/2014



Pegasus Link Constructors,LLC

AECOM

AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
DRAINAGE HYDRAULIC DATA
INLET HYDRAULICS

FILE NAME:
042DA5501CLC
CONTROL:
ECP0DR6897
DESIGN PACKAGE:
RFC
SHEET:
01 OF 03

DESIGNED	SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
DRAWN	BZ	6	(SEE TITLE SHEET)	1H 30
CHECKED	FG	STATE	DISTRICT	COUNTY
APPROVED	SP	TEXAS	DAL	DALLAS
		CONTROL	SECTION	JOB
		1068	04	116

RELEASED FOR CONSTRUCTION

By Beth Blair at 10:46 am, Jul 03, 2014

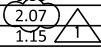
Pegasus Link Constructors

STATE OF TEXAS

SRI LAKSH

DRAINAGE INLET HYDRAULICS BRIDGES
FREQUENCY - 10YEAR

Inlet ID	Inlet Type	Inlet Profile Type	Node Station	Inlet Discharge (CFS)	Inlet Capacity (CFS)	Inlet By Pass Flow Into (CFS)	Inlet By Pass Flow (CFS)	Inlet By Pass Node ID	Inlet Computed Ponder Width (ft)	Inlet Max Ponder Width (ft)	Inlet Computed Ponder Depth (ft)	Inlet Max Ponder Depth (ft)	Inlet Longitudinal Slope (%)	Node Junction Loss (ft)	Inlet Spread Manning's N Value
BR4-A-01	Grate	On Grade	5031+62.08	1.20	0.74	0.36	0.45	SLOT	9.57	10	0.16	0.20	0.5	0.05	0.015
BR4-A-02	Grate	On Grade	5032+11.60	0.95	0.59	0.31	0.36	BR4-A-01	9.93	10	0.14	0.20	0.5	0	0.015
BR4-A-03	Grate	On Grade	5032+49.59	0.83	0.52	0.16	0.31	BR4-A-02	9.65	10	0.13	0.20	0.5	0.04	0.015
BR4-A-04	Grate	On Grade	5032+86.58	0.45	0.29	0.05	0.16	BR4-A-03	9.82	10	0.09	0.20	0.5	0	0.015
BR4-A-05	Grate	On Grade	5033+08.72	0.17	0.13	0.06	0.05	BR4-A-04	7.54	10	0.06	0.20	0.5	0.01	0.015
BR4-A-06	Grate	On Grade	5033+14.21	0.19	0.12	0.06	0.06	BR4-A-05	9.75	10	0.05	0.20	0.5	0.01	0.015
BR4-A-07	Grate	On Grade	5033+22.08	0.18	0.12	0.00	0.06	BR4-A-06	9.56	10	0.05	0.20	0.5	0.01	0.015
BR4-A-08	Grate	On Grade	5037+13.46	1.46	0.92	0.31	0.54	SLOT	9.25	10	0.19	0.20	0.5	0.01	0.015
BR4-A-09	Grate	On Grade	5038+14.97	0.96	0.66	0.25	0.31	BR4-A-08	7.92	10	0.16	0.20	0.5	0.05	0.015
BR4-A-10	Grate	On Grade	5038+80.00	0.83	0.58	0.00	0.25	BR4-A-09	7.49	10	0.15	0.20	0.5	0.04	0.015
BR6-A-02	Grate	On Grade	5025+71.53	1.74	1.34	0.42	0.39	D-C-04	4.31	21	0.26	0.20	1.08	0.23	0.015
BR6-A-03	Grate	On Grade	5027+80.46	2.04	1.62	0.64	0.42	BR6-A-02	5.91	16	0.33	0.20	0.35	0.26	0.015
BR6-A-04	Grate	On Grade	5029+98.50	2.07	1.43	0.74	0.64	BR6-A-03	7.34	16	0.26	0.20	0.5	0.85	0.015
BR6-A-05	Grate	On Grade	5032+11.85	1.87	1.14	0.61	0.74	BR6-A-04	10.38	16	0.21	0.20	0.45	0.24	0.015
BR6-A-06	Grate	On Grade	5034+32.94	1.70	1.09	0.69	0.61	BR6-A-05	10.47	16	0.21	0.20	0.35	0.4	0.015
BR6-A-07	Grate	On Grade	5035+91.81	1.87	1.18	0.42	0.69	BR6-A-06	10.85	16	0.22	0.20	0.35	0.19	0.015
BR6-A-08	Grate	On Grade	5038+31.81	1.30	0.88	0.28	0.42	BR6-A-07	9.46	10.5	0.19	0.20	0.35	0.06	0.015
BR6-A-09	Grate	On Grade	5039+94.35	0.97	0.69	0.39	0.28	BR6-A-08	8.50	10	0.17	0.20	0.35	0.16	0.015
BR6-A-10	Grate	On Grade	5040+91.81	1.23	0.84	0.22	0.39	BR6-A-09	9.28	10	0.19	0.20	0.35	0.06	0.015
BR6-A-11	Grate	On Grade	5042+60.65	0.81	0.59	0.24	0.22	BR6-A-10	7.93	10	0.16	0.20	0.35	0.15	0.015
BR6-A-12	Grate	On Grade	5043+51.81	0.86	0.63	0.12	0.24	BR6-A-11	8.12	10	0.16	0.20	0.35	0.02	0.015
BR6-A-13	Grate	On Grade	5044+76.64	0.53	0.41	0.00	0.12	BR6-A-12	6.76	10	0.14	0.20	0.35	0.07	0.015
BR6-B-01	Grate	On Grade	1003+05.97	2.07	1.36	0.30	0.72	SLOT	6.50	8	0.24	0.26	0.9	0.18	0.015
BR6-B-02	Grate	On Grade	5030+58.03	1.15	0.85	0.00	0.30	BR6-B-01	6.42	10	0.2	0.31	0.5	0.29	0.015
BR6-B-03	Grate	On Grade	5035+91.81	1.40	0.93	0.51	0.47	SLOT	9.74	10	0.19	0.20	0.35	0.07	0.015
BR6-B-04	Grate	On Grade	5036+70.00	1.49	0.99	0.51	0.51	BR6-B-03	9.98	10	0.2	0.20	0.35	0.02	0.015
BR6-B-05	Grate	On Grade	5037+70.00	1.49	0.98	0.00	0.51	BR6-B-04	9.97	10	0.2	0.20	0.35	0.12	0.015
BR6-B-06	Grate	On Grade	5043+51.81	1.12	0.78	0.37	0.34	SLOT	8.96	10	0.18	0.20	0.35	0.07	0.015
BR6-B-07	Grate	On Grade	5044+20.00	1.19	0.82	0.00	0.37	BR6-B-06	9.16	10	0.18	0.20	0.35	0.09	0.015
BR8-A-01	Grate	On Grade	527+04.34	1.57	0.81	0.69	0.75	D-A-03	6.11	8	0.12	0.16	5.31	0.03	0.015
BR9-A-01	Grate	On Grade	528+80.52	1.71	1.02	0.41	0.69	BR8-A-01	6.52	8	0.18	0.16	1.53	0.13	0.015
BR9-A-02	Grate	On Grade	1005+08.14	1.27	0.85	0.23	0.41	BR9-A-01	7.68	8	0.18	0.19	0.55	0.1	0.015
BR9-A-03	Grate	On Grade	1005+70.06	0.78	0.54	0.18	0.23	BR9-A-02	7.16	8	0.14	0.16	0.55	0.04	0.015
BR9-A-04	Grate	On Grade	1006+12.96	0.65	0.47	0.15	0.18	BR9-A-03	6.69	8	0.13	0.16	0.55	0.05	0.015
BR9-A-05	Grate	On Grade	1006+49.02	0.57	0.42	0.19	0.15	BR9-A-04	6.39	8	0.13	0.16	0.55	0.06	0.015
BR9-A-06	Grate	On Grade	1006+74.19	0.67	0.48	0.16	0.19	BR9-A-05	6.78	8	0.14	0.20	0.55	0.05	0.015
BR9-A-07	Grate	On Grade	1007+17.18	0.59	0.44	0.29	0.16	BR9-A-06	6.47	8	0.13	0.16	0.55	0.06	0.015
BR9-A-08	Grate	On Grade	1007+39.56	0.91	0.62	0.51	0.29	BR9-A-07	7.59	8	0.15	0.16	0.55	0.02	0.015
BR9-A-09	Grate	On Grade	1007+78.84	0.79	0.55	0.25	0.24	BR9-A-08	7.20	8	0.14	0.16	0.55	0	0.015
BR9-A-10	Grate	On Grade	1008+63.58	1.03	0.69	0.22	0.34	BR9-A-09A	7.97	8	0.16	0.16	0.55	0.02	0.015
BR9-A-11	Grate	On Grade	1009+28.02	0.76	0.54	0.00	0.22	BR9-A-10	7.11	8	0.14	0.16	0.55	0.12	0.015
BR9-A-12	Grate	On Grade	1010+66.71	0.77	0.57	0.00	0.20	BR9-A-13	7.80	8	0.16	0.16	0.35	0.04	0.015
BR9-A-13	Grate	On Grade	1011+16.81	0.80	0.59	0.20	0.21	BR9-A-14	7.89	8	0.16	0.16	0.35	0.04	0.015
BR9-A-14	Grate	On Grade	1011+52.00	0.66	0.50	0.21	0.16	BR9-A-15	7.36	8	0.15	0.16	0.35	0.05	0.015
BR9-A-15	Grate	On Grade	1011+93.34	0.67	0.50	0.16	0.16	BR9-A-16	7.38	8	0.15	0.16	0.35	0.09	0.015
BR9-A-16	Grate	On Grade	1012+38.56	0.67	0.51	0.16	0.17	BR9-A-17	7.41	8	0.15	0.16	0.35	0.03	0.015
BR9-A-17	Grate	On Grade	1012+82.46	0.70	0.53	0.17	0.17	BR9-A-18	7.51	8	0.15	0.16	0.35	0.05	0.015
BR9-A-18	Grate	On Grade	1013+21.07	0.72	0.54	0.17	0.18	BR9-A-19	7.61	8	0.15	0.16	0.35	0.01	0.015
BR9-A-19	Grate	On Grade	1013+71.70	0.78	0.58	0.18	0.20	BR9-A-20	7.82	8	0.16	0.16	0.35	0.06	0.015
BR9-A-20	Grate	On Grade	1014+21.91	0.77	0.57	0.20	0.20	BR9-A-21	7.78	8	0.16	0.16	0.35	0.04	0.015
BR9-A-21	Grate	On Grade	1014+63.21	0.66	0.50	0.17	0.16	BR9-A-22	7.36	8	0.15	0.16	0.35	0.03	0.015
BR9-A-22	Grate	On Grade	1015+11.02	0.75	0.56	0.16	0.19	BR9-A-23	7.70	8	0.15	0.16	0.35	0.04	0.015
BR9-A-23	Grate	On Grade	1015+55.82	0.74	0.55	0.19	0.19	BR9-A-24	7.68	8	0.15	0.16	0.35	0.06	0.015
BR9-A-24	Grate	On Grade	1015+97.27	0.69	0.52	0.19	0.17	BR9-A-25	7.45	8	0.15	0.16	0.35	0.01	0.015
BR9-A-25	Grate	On Grade	1016+43.48	0.72	0.54	0.17	0.18	BR9-A-26	7.59	8	0.15	0.16	0.35	0.04	0.015
BR9-A-26	Grate	On Grade	1016+92.21	0.80	0.59	0.18	0.21	BR9-A-27	7.90	8	0.16	0.16	0.35	0.04	0.015
BR9-A-27	Grate	On Grade	1017+36.92	0.75	0.56	0.21	0.19	BR9-A-28	7.70	8	0.15	0.16	0.35	0.04	0.015
BR9-A-28	Grate	On Grade	1017+85.30	0.76	0.56	0.19	0.20	BR9-A-29	7.74	8	0.15	0.16	0.35	0.04	0.015
BR9-A-29	Grate	On Grade	1018+32.69	0.76	0.56	0.20	0.20	BR9-A-30	7.74	8	0.15	0.16	0.35	0	0.015
BR9-A-30	Grate	On Grade	1018+80.73	0.78	0.57	0.20	0.20	BR9-A-31	7.81	8	0.16	0.16	0.35	0.04	0.015
BR9-A-31	Grate	On Grade	1019+31.95	0.82	0.60	0.20	0.22	BR9-A-32	7.95	8	0.16	0.16	0.35	0.05	0.015
BR9-A-32	Grate	On Grade	1019+76.75	0.76	0.56	0.22	0.20	BR9-A-33	7.75	8	0.16	0.16	0.35	0.07	0.015
BR9-A-33	Grate	On Grade	1020+23.98	0.77	0.57	0.20	0.20	BR9-A-34	7.79	8	0.16	0.16	0.35	0.01	0.015
BR9-A-34	Grate	On Grade	1020+59.47	0.64	0.47	0.20	0.16	BR9-A-35	7.83	8	0.14	0.14	0.35	0.04	0.015
BR9-A-35	Grate	On Grade	1020+89.88	0.52	0.37	0.16	0.15	BR9-A-36	7.55	8	0.11	0.12	0.5	0.03	0.015
BR9-A-36	Grate	On Grade	1021+19.89	0.52	0.33	0.15	0.19	BR9-A-37	7.79	8	0.1	0.10	0.81	0.02	0.015
BR9-A-37	Grate	On Grade	1021+37.75	0.42	0.26	0.19	0.16	BR9-A-38	7.75	8	0.08	0.08	0.99	0.01	0.015
BR9-A-38	Grate	On Grade	1021+48.84	0.31	0.20	0.16	0.12	BR9-A-39	7.22	8	0.07	0.07	1.1	0	0.015
BR9-A-39	Grate	On Grade	1021+63.10	0.29	0.17	0.12	0.12	BR9-A-40	7.56	8	0.06	0.06	1.25	0.02	0.015
BR9-A-40	Grate	On Grade	1021+70.37	0.20	0.12	0.12	0.07	BR9-A-41	6.84	8	0.05	0.06	1.32	0	0.015
BR9-A-41	Grate	On Grade	1021+79.36	0.18	0.11	0.07	0.07	BR9-A-42	7.00	8	0.05	0.05	1.41	0	0.015
BR9-A-42	Grate	On Grade	1021+87.09	0.17	0.10	0.07	0.07	BR9-A-43	7.20	8	0.04	0.05	1.49	0	0.015
BR9-A-43	Grate	On Grade	1021+94.00	0.16	0.09	0.07	0.07		7.68	8	0.04	0.04	1.56	0	0.015
BR9-A-44	Grate	On Grade	1024+13.84	0.54	0.34	0.00	0.21	BR9-A-45A	5.11	8	0.08	0.12	3.8	0.01	0.015
BR9-A-45	Grate	On Grade	1025+36.72	1.44	0.87	0.73	0.57		5.11	8	0.14	0.22	4.12	0.18	0.015
BR9-A-09A	Grate	On Grade	1008+25.60	0.83	0.58	0.34	0.25	BR9-A-09	7.34	8	0.15	0.16	0.55	0	0.015
BR9-A-45A	Grate	On Grade	1024+54.78	1.47	0.76	0.21	0.70	BR9-A-45B	6.34	8	0.12	0.16	4.12	0.04	0.015



ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
O	RFC	10/10/2013
1	NDC 00050	12/20/2013



Pegasus Link Constructors, LLC

AECOM
AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 35

DRAINAGE INLET HYDRAULICS BRIDGES
FREQUENCY -10YEAR

Inlet ID	Inlet Type	Inlet Profile Type	Node Station	Inlet Discharge (CFS)	Inlet Capacity (CFS)	Inlet By Pass Flow Into (CFS)	Inlet By Pass Flow (CFS)	Inlet By Pass Node ID	Inlet Computed Pondered Width (ft)	Inlet Max Pondered Width (ft)	Inlet Computed Pondered Depth (ft)	Inlet Max Pondered Depth (ft)	Inlet Longitudinal Slope (%)	Node Junction Loss (ft)	Inlet Spread Manning's N Value
BR3-A-01	Grate	On Grade	1008+66.74	1.66	1.29	0.48	0.37		6.31	8	0.28	0.35	0.35	0.1	0.015
BR3-A-02	Grate	On Grade	1013+17.81	0.26	0.20	0.00	0.06	BR3-A-03	7.96	8	0.08	0.08	0.35	0	0.015
BR3-A-03	Grate	On Grade	1013+51.94	0.45	0.34	0.06	0.11	BR3-A-04	7.88	8	0.11	0.11	0.35	0.01	0.015
BR3-A-04	Grate	On Grade	1014+14.21	0.83	0.61	0.11	0.22	BR3-A-05	7.98	8	0.16	0.16	0.35	0.02	0.015
BR3-A-05	Grate	On Grade	1014+70.42	0.79	0.58	0.22	0.21	BR3-A-06	7.84	8	0.16	0.16	0.35	0.02	0.015
BR3-A-06	Grate	On Grade	1015+26.63	0.78	0.57	0.21	0.20	BR3-A-07	7.79	8	0.16	0.16	0.35	0.03	0.015
BR3-A-07	Grate	On Grade	1015+82.84	0.77	0.57	0.20	0.20	BR3-A-08	7.79	8	0.16	0.16	0.35	0.04	0.015
BR3-A-08	Grate	On Grade	1016+39.05	0.77	0.57	0.20	0.20	BR3-A-09	7.76	8	0.16	0.16	0.35	0.05	0.015
BR3-A-10	Grate	On Grade	1017+13.46	0.77	0.57	0.00	0.20	BR3-A-11	7.76	8	0.16	0.16	0.35	0.04	0.015
BR3-A-11	Grate	On Grade	1017+72.33	0.80	0.58	0.20	0.21	BR3-A-12	7.86	8	0.16	0.16	0.35	0.04	0.015
BR3-A-12	Grate	On Grade	1018+31.32	0.80	0.59	0.21	0.21	BR3-A-12A	7.88	8	0.16	0.16	0.35	0.01	0.015
BR3-A-13	Grate	On Grade	1021+32.86	0.66	0.50	0.12	0.16	BR3-A-14	7.34	8	0.15	0.16	0.35	0.01	0.015
BR3-A-14	Grate	On Grade	1021+77.54	0.71	0.53	0.16	0.18	BR3-A-15	7.52	8	0.15	0.16	0.35	0.01	0.015
BR3-A-15	Grate	On Grade	1022+23.59	0.75	0.56	0.18	0.19	BR3-A-16	7.69	8	0.15	0.16	0.35	0.03	0.015
BR3-A-16	Grate	On Grade	1022+70.95	0.80	0.59	0.19	0.21	BR3-A-17	7.88	8	0.16	0.16	0.35	0.05	0.015
BR3-A-17	Grate	On Grade	1023+17.37	0.83	0.61	0.21	0.22	BR10-A-01	7.98	8	0.16	0.16	0.35	0.01	0.015
BR4-A-16	Grate	On Grade	5045+02.09	1.03	0.67	0.00	0.35	BR4-A-17	7.76	10	0.16	0.20	0.63	0.06	0.015
BR4-A-17	Grate	On Grade	5045+77.97	1.34	0.83	0.35	0.51	BR4-A-19	8.58	10	0.17	0.20	0.63	0.02	0.015
BR4-A-19	Grate	On Grade	5046+65.02	1.64	0.97	0.51	0.67	SLOT	9.26	10	0.19	0.20	0.63	0.06	0.015
BR4-A-21	Grate	On Grade	5049+90.36	1.29	0.81	0.00	0.48	BR4-A-22	8.45	10	0.17	0.20	0.63	0.21	0.015
BR4-A-22	Grate	On Grade	5050+79.87	1.74	1.02	0.48	0.72	BR4-A-23	9.45	10	0.19	0.20	0.63	0.15	0.015
BR4-A-23	Grate	On Grade	5051+55.93	1.78	1.03	0.72	0.74	BR4-A-24	9.53	10	0.19	0.20	0.63	0.2	0.015
BR4-A-24	Grate	On Grade	5052+22.08	1.65	0.98	0.74	0.67	BR4-A-25	9.27	10	0.19	0.20	0.63	0.05	0.015
BR4-A-25	Grate	On Grade	5052+70.00	1.38	0.85	0.67	0.53	BR4-A-26	8.66	10	0.17	0.20	0.63	0.04	0.015
BR4-A-26	Grate	On Grade	5053+48.00	1.59	0.95	0.53	0.64	SLOT	9.14	10	0.18	0.20	0.63	0.07	0.015
BR5-A-01	Grate	On Grade	5049+02.07	0.87	0.53	0.00	0.34	BR5-A-02	5.47	9.9	0.11	0.20	2.9	0.01	0.015
BR5-A-02	Grate	On Grade	5050+01.08	1.39	0.75	0.76	0.64	BR5-A-03	6.54	7.9	0.13	0.16	2.9	0.02	0.015
BR5-A-03	Grate	On Grade	5050+47.69	0.96	0.57	0.64	0.39	BR5-A-04	5.70	6.9	0.11	0.16	2.9	0.03	0.015
BR5-A-04	Grate	On Grade	5050+93.74	0.69	0.44	0.39	0.24	SLOT	5.02	5.9	0.1	0.14	2.9	0.03	0.015
BR6-B-19	Grate	On Grade	5048+76.34	1.18	0.66	0.00	0.52	BR6-B-20	6.01	10	0.12	0.20	3.27	0.06	0.015
BR6-B-20	Grate	On Grade	5049+78.76	1.45	0.71	0.52	0.74	BR6-B-21	6.87	10	0.12	0.20	4.32	0.06	0.015
BR6-B-21	Grate	On Grade	5050+33.30	1.15	0.46	0.74	0.69	BR6-B--22	8.89	10	0.08	0.20	4.79	0.06	0.015
BR9-A-08	Grate	On Grade	1007+39.56	0.91	0.62	0.00	0.00	BR9-A-07	7.59	8	0.15	0.16	0.55	0.02	0.015
BR10-A-01	Grate	Sag	14+67.24	0.66	0.82	0.27	0.00		7.05	8	0.14	0.16	n/a	0.04	0.015
BR10-A-02	Grate	On Grade	14+79.65	0.32	0.27	0.17	0.05	BR10-A-01	5.94	8	0.12	0.16	0.25	0.02	0.015
BR10-A-03	Grate	On Grade	15+08.13	0.58	0.41	0.40	0.17	BR10-A-02	5.95	8	0.12	0.16	0.83	0	0.015
BR10-A-04	Grate	On Grade	15+36.10	1.01	0.61	0.69	0.40	BR10-A-03	6.65	8	0.13	0.16	1.4	0.01	0.015
BR10-A-05	Grate	On Grade	18+00.08	1.30	0.84	0.09	0.46	BR10-A-04A	4.33	8	0.13	0.17	5.74	0.19	0.015
BR10-A-06	Grate	On Grade	23+70.00	0.82	0.60	0.00	0.22		7.96	8	0.16	0.16	0.36	0.27	0.015
BR10-A-07	Grate	On Grade	32+66.73	1.58	0.94	0.00	0.64	BR10-A-08	4.84	13	0.13	0.35	6.84	0.32	0.015
BR10-A-08	Grate	On Grade	33+20.00	0.81	0.33	0.64	0.48	SLOT	8.19	8.5	0.06	0.07	6.84	0.01	0.015
BR10-A-09	Grate	On Grade	26+61.66	1.15	0.99	0.00	0.16	SLOT	4.54	14	0.27	0.84	0.36	0.17	0.015
BR3-A-01B	Grate	On Grade	1007+67.91	1.98	1.51	0.00	0.48	BR3-A-01	6.69	8	0.3	0.35	0.35	0.12	0.015
BR3-A-12A	Grate	On Grade	1018+90.62	0.82	0.60	0.21	0.22	BR3-A-12B	7.94	8	0.16	0.16	0.35	0.04	0.015
BR3-A-12B	Grate	On Grade	1019+48.78	0.78	0.58	0.22	0.20	BR3-A-12C	7.80	8	0.16	0.16	0.35	0.04	0.015
BR3-A-12C	Grate	On Grade	1020+06.78	0.83	0.60	0.20	0.22	BR3-A-12D	7.98	8	0.16	0.16	0.35	0.15	0.015
BR3-A-12D	Grate	On Grade	1020+58.91	0.82	0.60	0.22	0.22	BR3-A-12E	7.95	8	0.16	0.16	0.35	0.01	0.015
BR3-A-12E	Grate	On Grade	1020+87.10	0.55	0.43	0.22	0.12	BR3-A-13	6.83	8	0.14	0.16	0.35	0.05	0.015
BR5-A-01A	Grate	On Grade	5047+30.58	1.03	0.61	0.00	0.42	BR5-A-02	6.42	10	0.13	0.20	1.77	0.05	0.015
BR6-B--22	Grate	On Grade	5050+48.34	0.82	0.32	0.69	0.49	BR6-B--23	9.08	10	0.07	0.20	4.79	0.05	0.015
BR6-B--23	Grate	On Grade	5050+57.21	0.59	0.24	0.49	0.35	BR6-B--24	8.96	10	0.06	0.20	4.79	0.04	0.015
BR6-B--24	Grate	On Grade	5050+65.07	0.43	0.17	0.35	0.26		9.02	10	0.05	0.20	4.79	0.03	0.015
BR10-A-04A	Grate	On Grade	16+00.80	1.47	0.78	0.46	0.69	BR10-A-04	6.76	8	0.14	0.16	2.71	0.13	0.015
BR10-A-05A	Grate	On Grade	22+34.08	0.38	0.33	0.00	0.05		4.54	8	0.14	0.25	0.36	0.06	0.015
BR10-A-05B	Grate	On Grade	20+48.62	0.71	0.61	0.00	0.09	BR10-A-05	3.17	8	0.18	0.44	1.19	0.05	0.015

DRAINAGE INLET HYDRAULICS BRIDGE 2 FREQUENCY -5YEAR

Inlet ID	Inlet Type	Inlet Profile Type	Node Station	Inlet Discharge (CFS)	Inlet Capacity (CFS)	Inlet By Pass Flow Into (CFS)	Inlet By Pass Flow (CFS)	Inlet By Pass Node ID	Inlet Computed Pondered Width (ft)	Inlet Max Pondered Width (ft)	Inlet Computed Pondered Depth (ft)	Inlet Max Pondered Depth (ft)	Inlet Longitudinal Slope (%)	Node Junction Loss (ft)	Inlet Spread Manning's N Value
BR2-A-01	Grate	On Grade	507+24.20	1.53	0.80	0.53	0.73	D-C-04	6.14	8	0.12	0.16	4.92	0.07	0.015
BR2-A-02	Grate	On Grade	507+98.26	1.20	0.67	0.00	0.53	BR2-A-01	5.60	8	0.11	0.20	4.92	0.06	0.015

DRAINAGE INLET HYDRAULICS BRIDGE 35 FREQUENCY -10YEAR

Inlet ID	Inlet Type	Inlet Profile Type	Node Station	Inlet Discharge (CFS)	Inlet Capacity (CFS)	Inlet By Pass Flow Into (CFS)	Inlet By Pass Flow (CFS)	Inlet By Pass Node ID	Inlet Computed Pondered Width (ft)	Inlet Max Pondered Width (ft)	Inlet Computed Pondered Depth (ft)	Inlet Max Pondered Depth (ft)	Inlet Longitudinal Slope (%)	Node Junction Loss (ft)	Inlet Spread Manning's N Value
BR35-A-1	Grate	Sag	11+43.12	1.32	4.42	0.00	0.00		8.49	10	0.22	0.50	n/a	0.22	0.015
BR35-A-2	Grate	On Grade	13+16.91	0.87	0.57	0.00	0.29		4.51	5	0.11	0.10	3.77	0.04	0.015



ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
0	RFC	10/10/2013
1	NDC 00126	07/15/2014



Pegasus Link Constructors,LLC



AECOM Technical Services, Inc.- F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
DRAINAGE HYDRAULIC DATA
INLET HYDRAULICS

FILE NAME:
042DA5503CLC
CONTROL:
ECP0DR6897
DESIGN PACKAGE:
RFC
SHEET:
03 OF 03

DESIGNED	SP	FED. RD. DIST. NO.	FEDERAL AID PROJECT NO.			HIGHWAY NO.
DRAWN	BZ	6	(SEE TITLE SHEET)			IH 30
CHECKED	SV	STATE	DISTRICT	COUNTY		SHEET NO.
APPROVED	SV	TEXAS	DAL	DALLAS		DA5503
		CONTROL	SECTION	JOB		
		1068	04	116		

RELEASED FOR CONSTRUCTION

By Beth Blair at 9:09 am, Jul 31, 2014

Pegasus Link Constructors



P.srilakshmi 7/15/2014

Texas Department of Transportation
© 2014

PWD055
042da5601rpt.dgn

DRAINAGE LINK CONFIGURATION SYSTEM F-A
FREQUENCY - 10YEAR

Link ID	Link Type	Link Upstream Node	Link Downstream Node	Link Shape	Link Material	Link Number of Barrels	Link Actual Length (ft)	Link Hydraulic Length (ft)	Link Manning's N Value	Link Slope (%)	Link Rise (ft)	Link Span (ft)	Link Soffit Upstream (ft)	Link Soffit Downstream (ft)	Link Invert Upstream (ft)	Link Invert Downstream (ft)
F-A-02	Pipe	F-A-02	F-A-01	Circular	Concrete	1	61.20	62.70	0.012	0.80	2	n/a	388.50	388.00	386.50	386.00
F-A-02A	Pipe	F-A-02A	F-A-02	Circular	Concrete	1	15.45	17.95	0.012	2.79	2	n/a	389.00	388.50	387.00	386.50
F-A-02B	Pipe	F-A-02B	F-A-02A	Circular	Concrete	1	25.15	26.15	0.012	1.53	2	n/a	389.40	389.00	387.40	387.00
F-A-02D	Pipe	F-A-02D	F-A-02A	Circular	Concrete	1	57.64	57.64	0.012	4.34	2	n/a	391.50	389.00	389.50	387.00
F-A-03	Pipe	F-A-03	F-A-02D	Circular	Concrete	1	73.93	76.43	0.012	1.96	2	n/a	393.00	391.50	391.00	389.50
F-A-02C	Pipe	F-A-02C	F-A-02D	Circular	Concrete	1	42.34	43.34	0.012	1.15	2	n/a	392.00	391.50	390.00	389.50
F-A-04	Pipe	F-A-04	F-A-03	Circular	Concrete	1	291.90	295.23	0.012	0.85	2	n/a	395.50	393.00	393.50	391.00

DRAINAGE LINK CONFIGURATION SYSTEM F-B FREQUENCY - 10YEAR

F-B-01	Pipe	F-B-01	F-B-01A	Circular	Concrete	1	65.96	67.46	0.012	2.00	2	n/a	387.35	386.00	385.35	384.00
F-B-02A	Pipe	F-B-02A	F-B-01	Circular	Concrete	1	5.49	8.49	0.012	2.00	2	n/a	392.00	391.83	390.00	389.83

DRAINAGE LINK CONFIGURATION SYSTEM F-C FREQUENCY - 10YEAR

F-C-02A	Pipe	F-C-02A	F-C-01	Circular	Concrete	1	89.58	91.08	0.012	0.55	2.5	n/a	388.00	387.50	385.50	385.00
F-C-03	Pipe	F-C-03	F-C-02A	Circular	Concrete	1	82.64	85.64	0.012	0.58	2.5	n/a	388.50	388.00	386.00	385.50
F-C-02	Pipe	F-C-02	F-C-03	Circular	Concrete	1	3.80	6.80	0.012	7.36	2	n/a	389.00	388.50	387.00	386.50
F-C-04	Pipe	F-C-04	F-C-03	Circular	Concrete	1	56.89	58.39	0.012	0.81	2.5	n/a	388.97	388.50	386.47	386.00
F-C-05	Pipe	F-C-05	F-C-04	Circular	Concrete	1	8.01	9.76	0.012	8.49	2	n/a	389.80	388.97	387.80	386.97
F-C-06	Pipe	F-C-06	F-C-04	Circular	Concrete	1	119.54	120.54	0.012	0.31	2.5	n/a	389.34	388.97	386.84	386.47
F-C-07	Pipe	F-C-07	F-C-06	Circular	Concrete	1	53.59	54.59	0.012	0.48	2	n/a	389.60	389.34	387.60	387.34
F-C-08	Pipe	F-C-08	F-C-07	Circular	Concrete	1	10.89	12.64	0.012	7.12	2	n/a	390.50	389.60	388.50	387.60
F-C-13D	Pipe	F-C-13D	F-C-07	Circular	Concrete	1	87.60	87.60	0.012	0.57	2	n/a	390.10	389.60	388.10	387.60
F-C-13C	Pipe	F-C-13C	F-C-13D	Circular	Concrete	1	5.53	5.53	0.012	1.81	2	n/a	390.20	390.10	388.20	388.10
F-C-09	Pipe	F-C-09	F-C-13C	Circular	Concrete	1	32.24	32.24	0.012	2.48	2	n/a	391.00	390.20	389.00	388.20
F-C-10	Pipe	F-C-10	F-C-09	Circular	Concrete	1	6.48	8.23	0.012	8.51	2	n/a	391.70	391.00	389.70	389.00
F-C-13B	Pipe	F-C-13B	F-C-09	Circular	Concrete	1	22.44	22.44	0.012	2.23	2	n/a	391.50	391.00	389.50	389.00
F-C-13A	Pipe	F-C-13A	F-C-13B	Circular	Concrete	1	6.09	6.09	0.012	1.64	2	n/a	391.60	391.50	389.60	389.50
F-C-16	Pipe	F-C-16	F-C-13A	Circular	Concrete	1	51.16	52.16	0.012	1.73	2	n/a	392.50	391.60	390.50	389.60
F-C-13	Pipe	F-C-13	F-C-16	Circular	Concrete	1	79.44	81.94	0.012	0.73	2	n/a	393.10	392.50	391.10	390.50
F-C-14	Pipe	F-C-14	F-C-13	Circular	Concrete	1	8.09	11.09	0.012	0.40	2	n/a	393.14	393.10	391.14	391.10
F-C-14A	Pipe	F-C-14A	F-C-13	Circular	Concrete	1	68.38	71.38	0.012	0.56	2	n/a	393.40	393.00	391.40	391.00
F-C-14B	Pipe	F-C-14B	F-C-14A	Circular	Concrete	1	82.43	85.68	0.012	0.70	2	n/a	394.00	393.40	392.00	391.40

DRAINAGE LINK CONFIGURATION SYSTEM F-D FREQUENCY - 10YEAR

F-D-09	Pipe	F-D-09	F-D-08	Circular	Concrete	1	124.37	125.37	0.012	1.95	2	n/a	387.30	384.85	385.30	382.85
F-D-10A	Pipe	F-D-10A	F-D-09	Circular	Concrete	1	166.38	167.38	0.012	1.55	2	n/a	390.00	387.40	388.00	385.40
F-D-10	Pipe	F-D-10	F-D-10A	Circular	Concrete	1	284.75	285.75	0.012	1.75	2	n/a	395.00	390.00	393.00	388.00
F-D-11	Pipe	F-D-11	F-D-OUT	Circular	Concrete	1	241.46	242.96	0.012	0.80	2	n/a	388.2	386.25	386.2	384.25
F-D-12	Pipe	F-D-12	F-D-13	Circular	Concrete	1	210.41	215.41	0.012	0.50	2	n/a	395.82	394.77	393.82	392.77
F-D-13	Pipe	F-D-13	F-D-11	Circular	Concrete	1	233.62	237.62	0.012	0.50	2	n/a	394.77	393.58	392.77	391.58
F-D-12A	Pipe	F-D-12A	F-D-12	Circular	Concrete	1	5.84	8.34	0.012	1.41	2	n/a	395.94	395.82	393.94	393.82
F-D-15	Pipe	F-D-15	F-D-11	Circular	Concrete	1	13.77	17.77	0.012	2.81	2	n/a	407.00	406.5	405.00	404.50

DRAINAGE LINK CONFIGURATION SYSTEM F-E FREQUENCY - 5YEAR

F-E-01	Pipe	F-E-01	F-E-02	Circular	Concrete	1	140.37	141.37	0.012	1.31	2	n/a	390.50	388.65	388.50	386.65
--------	------	--------	--------	----------	----------	---	--------	--------	-------	------	---	-----	--------	--------	--------	--------

DRAINAGE LINK CONFIGURATION SYSTEM F-G FREQUENCY - 10YEAR

F-G-01A	Pipe	F-G-01A	F-G-01	Circular	Concrete	1	98.79	100.29	0.012	0.50	2.5	n/a	383.15	382.65	380.85	380.15
F-G-02	Pipe	F-G-02	F-G-01A	Circular	Concrete	1	130.00	133.00	0.012	0.50	2.5	n/a	383.82	383.15	381.32	380.65
F-G-02B	Pipe	F-G-02B	F-G-02	Circular	Concrete	1	5.56	8.06	0.012	5.00	2	n/a	388.30	387.90	386.30	385.90
F-G-03A	Pipe	F-G-03A	F-G-02	Circular	Concrete	1	185.41	186.91	0.012	0.35	2.5	n/a	384.47	383.82	381.97	381.32
F-G-03	Pipe	F-G-03	F-G-03A	Circular	Concrete	1	16.58	18.08	0.012	0.35	2.5	n/a	384.53	384.47	382.03	381.97
F-G-04	Pipe	F-G-04	F-G-03A	Circular	Concrete	1	5.01	6.01	0.012	9.50	2	n/a	384.54	383.97	382.54	381.97
F-G-08	Pipe	F-G-08	F-G-03	Circular	Concrete	1	65.51	69.51	0.012	0.35	2	n/a	384.78	384.53	382.78	382.53
F-G-11	Pipe	F-G-11	F-G-03	Circular	Concrete	1	52.62	55.12	0.012	1.00	2	n/a	387.10	386.55	385.10	384.55
F-G-08B	Pipe	F-G-08B	F-G-08	Circular	Concrete	1	18.49	20.99	0.012	0.35	2	n/a	384.85	384.78	382.85	382.78
F-G-08A	Pipe	F-G-08A	F-G-08B	Circular	Concrete	1	41.08	42.08	0.012	5.00	2	n/a	386.95	384.85	384.95	382.85
F-G-10B	Pipe	F-G-10B	F-G-08B	Circular	Concrete	1	58.52	58.52	0.012	0.35	2	n/a	385.05	384.85	383.05	382.85
F-G-10	Pipe	F-G-10	F-G-10B	Circular	Concrete	1	96.44	97.44	0.012	0.35	2	n/a	385.40	385.06	383.40	383.06
LAT F-G-10A	Pipe	F-G-10A	F-G-10B	Circular	Concrete	1	5.81	7.31	0.012	2.00	2	n/a	385.20	385.05	383.20	383.05

RELEASED FOR CONSTRUCTION

By Alyssa Moss at 12:27 pm, Mar 27, 2015

Pegasus Link Constructors



P. Srilakshmi 3/6/2015

Texas Department of Transportation
© 2015

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
0	RFC	10/10/2013
1	NDC 00049	12/20/2013
2	NDC 00170	03/06/2015



Pegasus Link Constructors, LLC

AECOM

AECOM Technical Services, Inc.- F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
DRAINAGE HYDRAULIC DATA
LINK CONFIGURATION

FILE NAME:
042DA5601RPT
CONTROL:
ECP0DR6897
DESIGN PACKAGE:
RFC
SHEET:
01 OF 04

DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
DRAWN BZ	6	(SEE TITLE SHEET)		1H 30
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECKED FG	TEXAS	DAL	DALLAS	DA5601
APPROVED SP	CONTROL	SECTION	JOB	
	1068	04	116	

\\pdc\ss\pdcswrk\39294\19805_143\042da5601rpt.dgn

3/6/2015 5:00:56 PM

DRAINAGE LINK CONFIGURATION SYSTEM F-1 FREQUENCY -10YEAR																
Link ID	Link Type	Link Upstream Node	Link Downstream Node	Link Shape	Link Material	Link Number of Barrels	Link Actual Length (ft)	Link Hydraulic Length (ft)	Link Manning's N Value	Link Slope (%)	Link Rise (ft)	Link Span (ft)	Link Soffit Upstream (ft)	Link Soffit Downstream (ft)	Link Invert Upstream (ft)	Link Invert Downstream (ft)
F-I-02	Pipe	F-I-02	F-I-01	Circular	Concrete	1	103.32	105.82	0.012	1.00	3.5	n/a	387.13	386.07	383.63	382.57
F-I-03	Pipe	F-I-03	F-I-02	Circular	Concrete	1	42.40	47.07	0.012	1.00	3	n/a	387.60	387.13	384.60	384.13
F-I-11	Pipe	F-I-11	F-I-02	Circular	Concrete	1	35.92	40.17	0.012	2.00	2	n/a	387.93	387.13	385.93	385.13
F-I-12	Pipe	F-I-12	F-I-03	Circular	Concrete	1	49.80	53.71	0.012	2.00	2	n/a	388.67	387.60	386.67	385.60
F-I-04A	Pipe	F-I-04A	F-I-03	Circular	Concrete	1	10.57	14.74	0.012	1.00	3	n/a	387.74	387.60	384.74	384.60
F-I-13	Pipe	F-I-13	F-I-04A	Circular	Concrete	1	4.25	8.75	0.012	9.80	2	n/a	402.86	402.00	400.86	400.00
F-I-04B	Pipe	F-I-04B	F-I-04A	Circular	Concrete	1	3.38	5.38	0.012	1.00	3	n/a	387.80	387.74	384.80	384.74
F-I-04	Pipe	F-I-04	F-I-04B	Circular	Concrete	1	8.14	8.14	0.012	1.00	3	n/a	387.88	387.80	384.88	384.80
F-I-05	Pipe	F-I-05	F-I-04	Circular	Concrete	1	100.59	102.59	0.012	1.00	3	n/a	388.91	387.88	385.91	384.88
F-I-14	Pipe	F-I-14	F-I-04	Circular	Concrete	1	23.97	25.72	0.012	2.00	2	n/a	388.39	387.88	386.39	385.88
F-I-06	Pipe	F-I-06	F-I-05	Circular	Concrete	1	17.45	21.62	0.012	1.00	3	n/a	389.12	388.91	386.12	385.91
F-I-07	Pipe	F-I-07	F-I-06	Circular	Concrete	1	183.95	188.12	0.012	1.00	3	n/a	391.00	389.12	388.00	386.12
F-I-15	Pipe	F-I-15	F-I-06	Circular	Concrete	1	14.69	18.60	0.012	2.00	2	n/a	389.49	389.12	387.49	387.12
F-I-16	Pipe	F-I-16	F-I-07	Circular	Concrete	1	38.74	42.49	0.012	2.00	2	n/a	391.85	391.00	389.85	389.00
F-I-8A	Pipe	F-I-08A	F-I-07	Circular	Concrete	1	59.43	63.43	0.012	1.00	3	n/a	391.64	391.00	388.64	388.00
F-I-08	Pipe	F-I-08	F-I-08A	Circular	Concrete	1	106.14	110.14	0.012	1.00	3	n/a	392.74	391.64	389.74	388.64
F-I-09	Pipe	F-I-09	F-I-08	Circular	Concrete	1	21.21	24.96	0.012	2.00	2	n/a	393.00	392.50	391.00	390.50
F-I-10A	Pipe	F-I-10A	F-I-09	Circular	Concrete	1	31.39	34.64	0.012	2.00	2	n/a	399.74	399.05	397.74	397.05
F-I-17	Pipe	F-I-17	F-I-10A	Circular	Concrete	1	17.97	20.47	0.012	1.59	2	n/a	402.95	402.62	400.95	400.62
F-I-10B	Pipe	F-I-10B	F-I-10A	Circular	Concrete	1	40.19	41.69	0.012	2.00	2	n/a	400.58	399.74	398.58	397.74
F-I-18	Pipe	F-I-18	F-I-17	Circular	Concrete	1	35.59	37.59	0.012	1.59	2	n/a	403.54	402.95	401.54	400.95
F-I-10	Pipe	F-I-10	F-I-10B	Circular	Concrete	1	154.66	157.17	0.012	2.00	2	n/a	403.87	400.72	401.87	398.72
F-I-18A	Pipe	F-I-18A	F-I-18	Circular	Concrete	1	37.00	38.00	0.012	1.58	2	n/a	404.15	403.55	402.15	401.55

DRAINAGE LINK CONFIGURATION SYSTEM F-J FREQUENCY -10YEAR				
--	--	--	--	--

F-J-02	Pipe	F-J-02	F-J-01	Circular	Concrete	1	44.73	46.23	0.012	0.80	2.5	n/a	385.85	385.48	383.35	382.98
F-J-03	Pipe	F-J-03	F-J-02	Circular	Concrete	1	86.58	88.08	0.012	0.73	2.5	n/a	388.49	387.85	385.99	385.35
F-J-24	Pipe	F-J-24	F-J-02	Circular	Concrete	1	10.39	13.39	0.012	1.64	2	n/a	391.51	391.29	389.51	389.29
F-J-04	Pipe	F-J-04	F-J-04D	Circular	Concrete	1	27.90	30.40	0.012	1.05	2	n/a	394.00	393.68	392.00	391.68
F-J-22	Pipe	F-J-22	F-J-03	Circular	Concrete	1	13.16	14.66	0.012	7.55	2	n/a	389.25	388.14	387.25	386.14
F-J-18	Pipe	F-J-18	F-J-04D	Circular	Concrete	1	10.72	13.72	0.012	0.30	2	n/a	389.03	388.98	387.03	386.98
F-J-04A	Pipe	F-J-04A	F-J-04D	Circular	Concrete	1	94.67	96.17	0.012	0.82	2	n/a	389.96	389.17	387.96	387.17
F-J-23	Pipe	F-J-23	F-J-22	Circular	Concrete	1	29.66	32.66	0.012	2.00	2	n/a	389.90	389.25	387.90	387.25
F-J-19	Pipe	F-J-19	F-J-18	Circular	Concrete	1	34.74	37.74	0.012	0.30	2	n/a	389.14	389.03	387.14	387.03
F-J-5B	Pipe	F-J-5B	F-J-04A	Circular	Concrete	1	53.36	53.36	0.012	0.86	2	n/a	390.42	389.96	388.42	387.96
F-J-20	Pipe	F-J-20	F-J-19	Circular	Concrete	1	155.89	160.89	0.012	0.30	2	n/a	390.00	389.52	388.00	387.52
F-J-05A	Pipe	F-J-05A	F-J-5B	Circular	Concrete	1	55.08	55.08	0.012	0.86	2	n/a	390.89	390.42	388.89	388.42
F-J-21	Pipe	F-J-21	F-J-20-A	Circular	Concrete	1	78.83	82.83	0.012	0.30	2	n/a	390.76	390.52	388.76	388.52
F-J-05	Pipe	F-J-05	F-J-05A	Circular	Concrete	1	7.85	9.35	0.012	0.86	2	n/a	390.97	390.89	388.97	388.89
F-J-06	Pipe	F-J-06	F-J-05	Circular	Concrete	1	75.52	78.52	0.012	0.86	2	n/a	391.65	390.97	389.65	388.97
F-J-16	Pipe	F-J-16	F-J-05	Circular	Concrete	1	8.90	12.15	0.012	2.00	2	n/a	391.21	390.97	389.21	388.97
F-J-17	Pipe	F-J-17	F-J-05	Circular	Concrete	1	35.42	38.67	0.012	2.00	2	n/a	391.74	390.97	389.74	388.97
F-J-07	Pipe	F-J-07	F-J-06	Circular	Concrete	1	119.31	123.31	0.012	0.86	2	n/a	392.71	391.65	390.71	389.65
F-J-15	Pipe	F-J-15	F-J-06	Circular	Concrete	1	7.59	10.84	0.012	2.00	2	n/a	391.86	391.65	389.86	389.65
F-J-08	Pipe	F-J-08	F-J-07	Circular	Concrete	1	18.49	22.49	0.012	0.86	2	n/a	392.91	392.72	390.91	390.72
F-J-13	Pipe	F-J-13	F-J-07	Circular	Concrete	1	26.05	29.05	0.012	2.00	2	n/a	393.29	392.71	391.29	390.71
F-J-09	Pipe	F-J-09	F-J-08	Circular	Concrete	1	33.85	37.10	0.012	2.00	2	n/a	393.65	392.91	391.65	390.91
F-J-12	Pipe	F-J-12	F-J-13	Circular	Concrete	1	49.72	51.22	0.012	2.00	2	n/a	394.31	393.29	392.31	391.29
F-J-11	Pipe	F-J-11	F-J-12	Circular	Concrete	1	38.55	40.05	0.012	2.00	2	n/a	395.11	394.31	393.11	392.31
F-J-14	Pipe	F-J-14	F-J-12	Circular	Concrete	1	13.74	15.24	0.012	9.00	2	n/a	395.68	394.31	393.68	392.31
F-J-10	Pipe	F-J-10	F-J-11	Circular	Concrete	1	25.38	28.38	0.012	2.00	2	n/a	395.68	395.11	393.68	393.11
F-J-20-A	Pipe	F-J-20-A	F-J-20	Circular	Concrete	1	173.48	177.48	0.012	0.29	2	n/a	390.52	390.00	388.52	388.00
F-J-04D	Pipe	F-J-04D	F-J-03	Circular	Concrete	1	91.66	93.16	0.01	0.73	2.5	n/a	389.17	388.49	386.67	385.99

DRAINAGE LINK CONFIGURATION SYSTEM F-L FREQUENCY -10YEAR

Link ID	Link Type	Link Upstream Node	Link Downstream Node	Link Shape	Link Material	Link Number of Barrels	Link Actual Length (ft)	Link Hydraulic Length (ft)	Link Manning's N Value	Link Slope (%)	Link Rise (ft)	Link Span (ft)	Link Soffit Upstream (ft)	Link Soffit Downstream (ft)	Link Invert Upstream (ft)	Link Invert Downstream (ft)
---------	-----------	--------------------	----------------------	------------	---------------	------------------------	-------------------------	----------------------------	------------------------	----------------	----------------	----------------	---------------------------	-----------------------------	---------------------------	-----------------------------

DRAINAGE LINK CONFIGURATION SYSTEM F-M FREQUENCY 10 YEAR

F-M-11	Pipe	F-M-11	F-M-08	Circular	Concrete	1	122.27	123.77	0.012	2.92	2	n/a	397.00	393.39	395.00	391.39
F-M-04	Pipe	F-M-04	F-M-11	Circular	Concrete	1	47.66	50.66	0.012	2.59	2	n/a	408.31	407.00	406.31	405.00
F-M-10	Pipe	F-M-10	F-M-09	Circular	Concrete	1	27.28	30.78	0.012	0.44	2	n/a	416.41	416.27	414.41	414.27
F-M-03	Pipe	F-M-03	F-M-04	Circular	Concrete	1	158.86	160.36	0.012	0.58	2	n/a	409.24	408.31	407.24	406.31
F-M-07	Pipe	F-M-07	F-M-04	Circular	Concrete	1	7.62	10.87	0.012	2.00	2	n/a	408.53	408.31	406.53	406.31
F-M-09	Pipe	F-M-09	F-M-09-A	Circular	Concrete	1	3.55	6.55	0.012	4.20	2	n/a	416.27	416.00	414.27	414.00
F-M-02	Pipe	F-M-02	F-M-03	Circular	Concrete	1	51.40	52.90	0.012	0.49	2	n/a	409.50	409.24	407.50	407.24
F-M-05	Pipe	F-M-05	F-M-03	Circular	Concrete	1	8.71	10.46	0.012	3.00	2	n/a	409.55	409.24	407.55	407.24
F-M-08	Pipe	F-M-08	F-N-01	Circular	Concrete	1	58.35	58.35	0.012	0.74	2	n/a	393.39	392.96	391.39	390.96
F-M-01	Pipe	F-M-01	F-M-02	Circular	Concrete	1	7.01	10.26	0.012	0.50	2	n/a	409.55	409.56	407.55	407.50
F-M-09-A	Pipe	F-M-09-A	F-M-09-B	Circular	Concrete	1	31.45	32.95	0.012	8.19	2	n/a	401.5	398.8	399.5	396.8
F-M-09-B	Pipe	F-M-09-B	F-N-01A	Circular	Concrete	1	84.98	84.98	0.012	4.9	2	n/a	398.8	394.64	396.8	392.64
F-N-01A	Pipe	F-N-01A	F-M-08	Circular	Concrete	1	168.97	168.97	0.012	0.74	2	n/a	394.64	393.39	392.64	391.39

DRAINAGE LINK CONFIGURATION SYSTEM F-N FREQUENCY -5YEAR

F-N-07	Pipe	F-N-07	F-N-OUT2	Circular	Concrete	1	289.26	290.26	0.012	0.4	2	n/a	393.32	392.16	391.32	390.16
F-N-02	Pipe	F-N-02	F-N-02A	Circular	Concrete	1	57.25	58.75	0.012	0.39	2	n/a	394.30	394.07	392.30	392.07
F-N-03	Pipe	F-N-03	F-N-02	Circular	Concrete	1	43.62	48.62	0.012	0.62	2	n/a	394.60	394.30	392.60	392.30
F-N-04	Pipe	F-N-04	F-N-03	Circular	Concrete	1	16.74	19.74	0.012	0.30	2	n/a	394.66	394.60	392.66	392.60
F-N-05	Pipe	F-N-05	F-N-04	Circular	Concrete	1	139.70	141.20	0.012	0.35	2	n/a	394.70	393.19	393.70	392.70
F-N-06	Pipe	F-N-06	F-N-05	Circular	Concrete	1	18.41	20.16	0.012	6.48	2	n/a	396.50	395.19	394.50	393.19
F-N-02A	Pipe	F-N-02A	F-N-07	Circular	Concrete	1	186.26	187.26	0.012	0.40	2	n/a	394.07	393.32	392.07	391.32

DRAINAGE LINK CONFIGURATION SYSTEM F-P FREQUENCY -10YEAR

F-P-01	Pipe	F-P-01	F-P-01A	Circular	Concrete	1	11.42	13.92	0.012	1.44	2	n/a	391.00	390.80	389.00	388.80
F-P-02	Pipe	F-P-02	F-P-02A	Circular	Concrete	1	2.50	5.00	0.012	4.00	2	n/a	387.60	387.40	385.60	385.40

ISSUE RECORD		
NO.	DESCRIPTION	DATE
C	FINAL	09/09/2013
0	RFC	10/10/2013
1	NDC 00064	03/04/2014
2	NDC 00114	06/20/2014
3	NDC 00126	07/15/2014
4	NDC 00172	04/08/2015



Pegasus Link Constructors, LLC



AECOM Technical Services, Inc.- F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT DRAINAGE HYDRAULIC DATA LINK CONFIGURATION

FILE NAME:	042DA5602RPT
CONTROL:	ECP0DR6897
DESIGN PACKAGE:	RFC
SHEET:	02 OF 04

DESIGNED	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
SP	6	(SEE TITLE SHEET)		IH 30
DRAWN	STATE	DISTRICT	COUNTY	SHEET NO.
BZ	TEXAS	DAL	DALLAS	DA5602
CHECKED	CONTROL	SECTION	JOB	
SV	1068	04	116	
APPROVED	SV			

RELEASED FOR CONSTRUCTION

By Amanda Lee at 10:21 am, Apr 17, 2015

Pegasus Link Constructors



 [®] Texas Department of Transportation
© 2015

PWD05603.rpt.dgn
042da5603rpt.dgn

DRAINAGE LINK CONFIGURATION BRIDGES FREQUENCY - 10 YEAR																
Link ID	Link Type	Link Upstream Node	Link Downstream Node	Link Shape	Link Material	Link Number of Barrels	Link Actual Length (ft)	Link Hydraulic Length (ft)	Link Manning's N Value	Link Slope (%)	Link Rise (ft)	Link Span (ft)	Link Soffit Upstream (ft)	Link Soffit Downstream (ft)	Link Invert Upstream (ft)	Link Invert Downstream (ft)
BR4-A-02	Pipe	BR4-A-02	BR4-A-01	Circular	Plastic	1	49.52	49.52	0.010	1.25	0.83	n/a	448.29	447.67	447.45	446.83
BR4-A-03	Pipe	BR4-A-03	BR4-A-02	Circular	Plastic	1	37.99	37.99	0.010	1.25	0.67	n/a	448.76	448.28	448.09	447.61
BR4-A-04	Pipe	BR4-A-04	BR4-A-03	Circular	Plastic	1	36.99	36.99	0.010	1.25	0.67	n/a	449.21	448.75	448.55	448.09
BR4-A-05	Pipe	BR4-A-05	BR4-A-04	Circular	Plastic	1	22.14	22.14	0.010	1.25	0.50	n/a	449.49	449.21	448.99	448.71
BR4-A-06	Pipe	BR4-A-06	BR4-A-05	Circular	Plastic	1	5.49	5.49	0.010	1.25	0.50	n/a	449.56	449.49	449.06	448.99
BR4-A-07	Pipe	BR4-A-07	BR4-A-06	Circular	Plastic	1	7.86	7.86	0.010	1.25	0.50	n/a	449.66	449.56	449.16	449.06
BR4-A-09	Pipe	BR4-A-09	BR4-A-08	Circular	Plastic	1	101.52	101.52	0.010	0.98	0.67	n/a	450.76	449.77	450.10	449.10
BR4-A-10	Pipe	BR4-A-10	BR4-A-09	Circular	Plastic	1	65.03	65.03	0.010	0.98	0.67	n/a	451.40	450.76	450.73	450.09
BR6-A-13	Pipe	BR6-A-13	BR6-A-12	Circular	Plastic	1	124.83	124.83	0.010	0.75	0.50	n/a	455.50	454.56	455.00	454.06
BR6-B-04	Pipe	BR6-B-04	BR6-B-03	Circular	Plastic	1	78.19	78.19	0.010	0.75	0.83	n/a	451.45	450.86	450.62	450.03
BR6-B-05	Pipe	BR6-B-05	BR6-B-04	Circular	Plastic	1	100.00	100.00	0.010	0.75	0.67	n/a	452.20	451.45	451.53	450.78
BR6-B-06	Pipe	BR6-B-07	BR6-B-06	Circular	Plastic	1	68.19	68.19	0.010	1.48	0.67	n/a	454.80	453.79	454.13	453.12
BR8-A-01	Pipe	BR8-A-01	BR8-A-OUT	Circular	Plastic	1	19.61	19.61	0.010	2.74	0.83	n/a	439.35	438.81	438.52	437.98
BR9-A-01	Pipe	BR9-A-01	BR9-A-02	Circular	Plastic	1	68.59	68.59	0.010	0.6	0.67	n/a	446.06	445.65	445.40	444.99
BR9-A-02	Pipe	BR9-A-02	BR9-A-OUT1	Circular	Plastic	1	43.54	43.54	0.010	1.5	0.67	n/a	445.65	445.00	444.99	444.33
BR9-A-12	Pipe	BR9-A-12	BR9-A-13	Circular	Plastic	1	50.10	50.10	0.010	0.75	0.67	n/a	450.67	450.29	450.00	449.62
BR9-A-13	Pipe	BR9-A-13	BR9-A-14	Circular	Plastic	1	35.19	35.19	0.010	1.72	0.67	n/a	450.29	449.69	449.63	449.02
BR9-A-14	Pipe	BR9-A-14	BR9-A-15	Circular	Plastic	1	41.34	41.34	0.010	1.72	0.67	n/a	449.69	448.98	449.02	448.31
BR9-A-15	Pipe	BR9-A-15	BR9-A-OUT7	Circular	Plastic	1	3.48	3.48	0.010	4.56	0.67	n/a	448.98	448.82	448.31	448.15
BR9-A-25	Pipe	BR9-A-25	BR9-A-OUT3	Circular	Plastic	1	2.83	2.83	0.010	2	0.67	n/a	447.37	447.32	446.71	446.65
BR9-A-26	Pipe	BR9-A-26	BR9-A-25	Circular	Plastic	1	48.73	48.73	0.010	2	0.67	n/a	448.35	447.37	447.68	446.71
BR9-A-27	Pipe	BR9-A-27	BR9-A-28	Circular	Plastic	1	48.38	48.38	0.010	0.75	0.67	n/a	448.20	447.83	447.53	447.16
BR9-A-28	Pipe	BR9-A-28	BR9-A-29	Circular	Plastic	1	47.39	47.39	0.010	0.75	0.67	n/a	447.83	447.47	447.17	446.81
BR9-A-29	Pipe	BR9-A-29	BR9-A-30	Circular	Plastic	1	48.05	48.05	0.010	0.76	0.83	n/a	447.47	447.11	446.64	446.28
BR9-A-30	Pipe	BR9-A-30	BR9-A-31	Circular	Plastic	1	51.22	51.22	0.010	0.75	0.83	n/a	447.11	446.72	446.27	445.89
BR9-A-31	Pipe	BR9-A-31	BR9-A-32	Circular	Plastic	1	44.81	44.81	0.010	1.05	0.83	n/a	446.72	446.25	445.89	445.42
BR9-A-32	Pipe	BR9-A-32	BR9-A-OUT8	Circular	Plastic	1	15.75	15.75	0.010	1.5	0.83	n/a	446.25	446.01	445.42	445.18
BR9-A-35	Pipe	BR9-A-35	BR9-A-OUT10	Circular	Plastic	1	17.91	17.91	0.010	1	0.67	n/a	446.58	446.40	445.91	445.73
BR9-A-36	Pipe	BR9-A-36	BR9-A-35	Circular	Plastic	1	30.01	30.01	0.010	1	0.67	n/a	446.88	446.58	446.21	445.91
BR9-A-37	Pipe	BR9-A-37	BR9-A-36	Circular	Plastic	1	17.86	17.86	0.010	1	0.67	n/a	447.05	446.88	446.39	446.21
BR9-A-38	Pipe	BR9-A-38	BR9-A-37	Circular	Plastic	1	11.10	11.10	0.010	1	0.67	n/a	447.17	447.06	446.50	446.39
BR9-A-39	Pipe	BR9-A-40	BR9-A-39	Circular	Plastic	1	7.27	7.27	0.010	1.28	0.67	n/a	446.36	446.27	445.70	445.60
BR9-A-40	Pipe	BR9-A-41	BR9-A-40	Circular	Plastic	1	8.99	8.99	0.010	1.28	0.67	n/a	446.48	446.36	445.81	445.70
BR9-A-41	Pipe	BR9-A-42	BR9-A-41	Circular	Plastic	1	7.73	7.73	0.010	1.28	0.67	n/a	446.58	446.48	445.91	445.81
BR9-A-42	Pipe	BR9-A-43	BR9-A-42	Circular	Plastic	1	6.92	6.92	0.010	1.28	0.67	n/a	446.67	446.58	446.00	445.91
BR9-A-43	Pipe	BR9-A-39	DR9-A-OUT11	Circular	Plastic	1	7.98	7.98	0.010	1.28	0.67	n/a	446.27	446.17	445.60	445.50
BR9-A-44	Pipe	BR9-A-44	BR9-A-45A	Circular	Plastic	1	40.94	40.94	0.010	4.69	0.67	n/a	440.87	438.94	440.20	438.28
BR9-A-45	Pipe	BR9-A-45	BR9-A-OUT13	Circular	Plastic	1	15.03	15.03	0.010	4	0.67	n/a	435.67	435.07	435.00	434.40
BR35-A-01	Pipe	BR35-A-01	BR35-A-OUT	Circular	Plastic	1	4.41	4.41	0.010	0	0.50	n/a	0.00	0.00	-0.50	-0.50
BR9-A-45A	Pipe	BR9-A-45A	BR9-A-45B	Circular	Plastic	1	37.41	37.41	0.010	4	0.67	n/a	438.94	437.45	438.28	436.78
BR9-A-45B	Pipe	BR9-A-45B	BR9-A-45	Circular	Plastic	1	44.53	44.53	0.010	4	0.67	n/a	437.45	435.67	436.78	435.00
BR4-A-OUTX	Pipe	BR4-A-08	BR4-A-OUTX	Circular	Plastic	1	23.76	23.76	0.010	0.98	0.83	n/a	449.77	449.54	448.94	448.70
BR4-A-OUTY	Pipe	BR4-A-01	BR4-A-OUTY	Circular	Plastic	1	7.64	7.64	0.010	1.24	0.83	n/a	447.67	447.57	446.83	446.74
BR6-A-OUT6	Pipe	BR6-A-07	BR6-A-OUT6	Circular	Plastic	1	16.67	16.67	0.010	1	0.67	n/a	452.17	452.00	451.50	451.33
BR6-A-OUT9	Pipe	BR6-A-12	BR6-A-OUT9	Circular	Plastic	1	49.34	49.34	0.010	0.75	0.67	n/a	454.56	454.19	453.90	453.53
BR6-B-OUTB	Pipe	BR6-B-02	BR6-B-OUTB	Circular	Plastic	1	29.66	29.66	0.010	1.69	0.50	n/a	448.50	448.00	448.00	447.50
BR6-B-OUTC	Pipe	BR6-B-03	BR6-B-OUTC	Circular	Plastic	1	15.76	15.76	0.010	1.15	0.83	n/a	450.86	450.68	450.03	449.85
BR6-B-OUTD	Pipe	BR6-B-06	BR6-B-OUTD	Circular	Plastic	1	49.22	49.22	0.010	1.48	0.67	n/a	453.79	453.06	453.12	452.39
BR9-A-OUT4	Pipe	BR9-A-11	BR9-A-OUTLET4	Circular	Plastic	1	20.72	20.72	0.010	2	0.50	n/a	450.00	449.59	449.50	449.09

NO.


B

C


O

ISSUE RECORD
DESCRIPTION

DATE
07/05/2013
09/09/2013
10/10/2013



Pegasus Link Constructors,LLC



AECOM Technical Services, Inc.- F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
DRAINAGE HYDRAULIC DATA
LINK CONFIGURATION

FILE NAME:
042DA5603RPT

CONTROL:
ECP0DR6897

DESIGN PACKAGE:
RFC

SHEET:
03 OF 04

DESIGNED
SP

DRAWN
BZ

CHECKED
FG

APPROVED
SP

FED. RD.
DIST. NO.

6

STATE

1068

FEDERAL AID PROJECT NO.

(SEE TITLE SHEET)

DISTRICT

DAL

SECTION

04

HIGHWAY NO.

IH 30

COUNTY

DALLAS

JOB

116

DA5603

RELEASED FOR CONSTRUCTION

By Beth Blair at 3:02 pm, Oct 22, 2013

Pegasus Link Constructors



Texas Department of Transportation
© 2013

10/10/2013 9:21:48 PM
p10t-dr-vn.d1t
\\pwc05603rpt.dgn

PWD055
042da5604rpt.dgn

DRAINAGE LINK CONFIGURATION BRIDGES FREQUENCY -10YEAR																
Link ID	Link Type	Link Upstream Node	Link Downstream Node	Link Shape	Link Material	Link Number of Barrels	Link Actual Length (ft)	Link Hydraulic Length (ft)	Link Manning's N Value	Link Slope (%)	Link Rise (ft)	Link Span (ft)	Link Soffit Upstream (ft)	Link Soffit Downstream (ft)	Link Invert Upstream (ft)	Link Invert Downstream (ft)
BR3-A-01	Pipe	BR3-A-01	BR3-A-OUTLET4	Circular	Plastic	1	60.25	60.25	0.010	0.98	0.83	n/a	449.11	448.52	448.28	447.69
BR3-A-02	Pipe	BR3-A-02	BR3-A-OUT5	Circular	Plastic	1	21.45	21.45	0.010	1	0.83	n/a	447.11	446.90	446.28	446.07
BR3-A-03	Pipe	BR3-A-03	BR3-A-02	Circular	Plastic	1	34.14	34.14	0.010	1	0.67	n/a	447.29	446.95	446.63	446.29
BR3-A-04	Pipe	BR3-A-04	BR3-A-05	Circular	Plastic	1	56.21	56.21	0.010	0.75	0.83	n/a	447.26	446.83	446.42	446.00
BR3-A-05	Pipe	BR3-A-05	BR3-A-06	Circular	Plastic	1	56.21	56.21	0.010	0.75	0.83	n/a	446.82	446.40	445.99	445.57
BR3-A-06	Pipe	BR3-A-06	BR3-A-07	Circular	Plastic	1	56.21	56.21	0.010	0.75	0.83	n/a	446.40	445.98	445.57	445.15
BR3-A-07	Pipe	BR3-A-07	BR3-A-08	Circular	Plastic	1	56.21	56.21	0.010	1.09	0.83	n/a	445.98	445.36	445.14	444.53
BR3-A-08	Pipe	BR3-A-08	BR3-A-09	Circular	Plastic	1	42.35	42.35	0.010	1.09	0.83	n/a	445.36	444.90	444.53	444.07
BR3-A-10	Pipe	BR3-A-10	BR3-A-11	Circular	Plastic	1	58.87	58.87	0.010	1.27	0.67	n/a	445.17	444.42	444.50	443.75
BR3-A-11	Pipe	BR3-A-11	BR3-A-OUTLET4	Circular	Plastic	1	4.22	4.22	0.010	1.27	0.67	n/a	444.47	444.42	443.80	443.75
BR3-A-13	Pipe	BR3-A-13	BR3-A-14	Circular	Plastic	1	44.90	44.90	0.010	0.4	0.83	n/a	443.62	443.44	442.78	442.60
BR3-A-14	Pipe	BR3-A-14	BR3-A-15	Circular	Plastic	1	46.80	46.80	0.010	0.52	0.83	n/a	443.58	443.34	442.75	442.51
BR3-A-15	Pipe	BR3-A-15	BR3-A-16	Circular	Plastic	1	48.40	48.40	0.010	0.64	0.83	n/a	443.34	443.03	442.51	442.19
BR3-A-16	Pipe	BR3-A-16	BR3-A-17	Circular	Plastic	1	47.29	47.29	0.010	0.71	0.83	n/a	443.03	442.69	442.19	441.86
BR3-A-17	Pipe	BR3-A-17	BR10-A-01	Circular	Plastic	1	32.51	32.51	0.010	0.4	1.00	n/a	442.69	442.56	441.69	441.56
BR4-A-16	Pipe	BR4-A-16	BR4-A-17	Circular	Plastic	1	75.89	75.89	0.010	0.9	0.67	n/a	449.86	449.18	449.20	448.51
BR4-A-17	Pipe	BR4-A-17	BR4-A-19	Circular	Plastic	1	87.06	87.06	0.010	0.9	0.83	n/a	449.18	448.40	448.35	447.57
BR4-A-19	Pipe	BR4-A-19	BR4-A-OUTLET2	Circular	Plastic	1	118.38	118.38	0.010	0.9	0.83	n/a	448.40	447.33	447.57	446.50
BR4-A-21	Pipe	BR4-A-21	BR4-A-OUTLET1A	Circular	Plastic	1	10.78	10.78	0.010	1	0.67	n/a	446.67	446.56	446.00	445.89
BR4-A-22	Pipe	BR4-A-22	BR4-A-OUTLET1B	Circular	Plastic	1	32.58	32.58	0.010	1	0.67	n/a	446.17	445.84	445.50	445.17
BR4-A-23	Pipe	BR4-A-23	BR4-A-OUTLET1B	Circular	Plastic	1	43.51	43.51	0.010	1	0.67	n/a	445.67	445.23	445.00	444.56
BR4-A-24	Pipe	BR4-A-24	BR4-A-25	Circular	Plastic	1	47.92	47.92	0.010	1.16	0.83	n/a	445.33	444.78	444.50	443.94
BR4-A-25	Pipe	BR4-A-25	BR4-A-26	Circular	Plastic	1	78.00	78.00	0.010	1.16	0.83	n/a	444.78	443.87	443.94	443.04
BR4-A-26	Pipe	BR4-A-26	BR4-A-OUTLET1	Circular	Plastic	1	89.10	89.10	0.010	1.16	0.83	n/a	443.87	442.83	443.03	442.00
BR5-A-01	Pipe	BR5-A-01	BR5-A-02	Circular	Plastic	1	99.01	99.01	0.010	3	0.83	n/a	450.82	447.85	449.99	447.02
BR5-A-02	Pipe	BR5-A-02	BR5-A-03	Circular	Plastic	1	46.61	46.61	0.010	3	0.83	n/a	447.85	446.45	447.02	445.62
BR5-A-03	Pipe	BR5-A-03	BR5-A-04	Circular	Plastic	1	46.05	46.05	0.010	3	0.83	n/a	446.45	445.07	445.62	444.24
BR5-A-04	Pipe	BR5-A-04	BR5-A-01-OUTLET	Circular	Plastic	1	140.24	140.24	0.010	2.31	0.83	n/a	445.07	441.83	444.24	441.00
BR6-B-19	Pipe	BR6-B-19	BR6-B-20	Circular	Plastic	1	102.43	102.43	0.010	3.8	0.67	n/a	449.17	445.27	448.50	444.61
BR6-B-20	Pipe	BR6-B-20	BR6-B-21	Circular	Plastic	1	54.53	54.53	0.010	3.8	0.67	n/a	445.27	443.20	444.60	442.53
BR6-B-21	Pipe	BR6-B-21	BR6-B--22	Circular	Plastic	1	15.05	15.05	0.010	3.8	0.67	n/a	443.20	442.63	442.53	441.96
BR10-A-01	Pipe	BR10-A-01	BR10-A-02	Circular	Plastic	1	12.41	12.41	0.010	0.75	1.00	n/a	442.56	442.47	441.56	441.47
BR10-A-02	Pipe	BR10-A-02	BR3-A-18	Circular	Plastic	1	3.30	3.30	0.010	0.75	1.00	n/a	442.32	442.30	441.32	441.30
BR10-A-06	Pipe	BR10-A-06	BR10-A-06-OUTLET	Circular	Plastic	1	27.80	27.80	0.010	1	0.50	n/a	466.00	465.72	465.50	465.22
BR10-A-07	Pipe	BR10-A-07	RB10-A-07-OUTLET	Circular	Plastic	1	10.26	10.26	0.010	7	0.67	n/a	447.17	446.45	446.50	445.78
BR10-A-08	Pipe	BR10-A-08	RB10-A-07-OUTLET	Circular	Plastic	1	43.02	43.02	0.010	1	0.50	n/a	441.61	441.18	441.11	440.68
BR10-A-09	Pipe	BR10-A-09	BR10-A-9-OUTLET	Circular	Plastic	1	7.31	7.31	0.010	1	0.67	n/a	466.17	466.09	465.50	465.43
BR3-A-01B	Pipe	BR3-A-01B	BR3-A-01	Circular	Plastic	1	98.49	98.49	0.010	0.98	0.83	n/a	450.08	449.12	449.25	448.28
BR3-A-12A	Pipe	BR3-A-12A	BR3-A-OUTLET2	Circular	Plastic	1	24.77	24.77	0.010	0.75	0.67	n/a	444.35	444.17	443.69	443.50
BR3-A-12B	Pipe	BR3-A-12B	BR3-A-12A	Circular	Plastic	1	57.77	57.77	0.010	0.75	0.67	n/a	445.04	444.60	444.37	443.94
BR3-A-12C	Pipe	BR3-A-12C	BR3-A-12D	Circular	Plastic	1	52.19	52.19	0.010	1.5	0.50	n/a	444.55	443.77	444.05	443.27
BR3-A-12D	Pipe	BR3-A-12D	BR3-A-12E	Circular	Plastic	1	28.21	28.21	0.010	1.5	0.67	n/a	443.97	443.55	443.31	442.88
BR3-A-12E	Pipe	BR3-A-12E	BR3-A-OUTLET1	Circular	Plastic	1	6.60	6.60	0.010	2	0.67	n/a	443.55	443.42	442.88	442.75
BR6-B--22	Pipe	BR6-B--22	BR6-B--23	Circular	Plastic	1	8.86	8.86	0.010	3.8	0.67	n/a	442.63	442.29	441.96	441.62
BR6-B--23	Pipe	BR6-B--23	BR6-B--24	Circular	Plastic	1	7.86	7.86	0.010	3.8	0.67	n/a	442.29	441.99	441.62	441.32
BR6-B--24	Pipe	BR6-B--24	BR6-B--OUTLET1	Circular	Plastic	1	143.17	143.17	0.010	3.8	0.67	n/a	441.99	436.55	441.32	435.88
BR10-A-05A	Pipe	BR10-A-05A	BR10-A-05A-OUTLET	Circular	Plastic	1	20.36	20.36	0.010	1	0.50	n/a	466.20	466.00	465.70	465.50
BR10-A-05B	Pipe	BR10-A-05B	BR10-A-5B-OUTLET	Circular	Plastic	1	13.82	13.82	0.010	6	0.67	n/a	464.67	463.84	464.00	463.17

DRAINAGE LINK CONFIGURATION BRIDGE 2 FREQUENCY -5YEAR																
Link ID	Link Type	Link Upstream Node	Link Downstream Node	Link Shape	Link Material	Link Number of Barrels	Link Actual Length (ft)	Link Hydraulic Length (ft)	Link Manning's N Value	Link Slope (%)	Link Rise (ft)	Link Span (ft)	Link Soffit Upstream (ft)	Link Soffit Downstream (ft)	Link Invert Upstream (ft)	Link Invert Downstream (ft)
BR2-A-OUT1	Pipe	BR2-A-01	BR2-A-OUT1	Circular	Plastic	1	85.54	85.54	0.010	4.7	0.67	n/a	439.69	435.67	439.02	435.00
BR2-A-2	Pipe	BR2-A-02	BR2-A-01	Circular	Plastic	1	74.65	74.65	0.010	6	0.67	n/a	444.17	439.69	443.50	439.02

DRAINAGE LINK CONFIGURATION BRIDGE 35 FREQUENCY -10YEAR																
Link ID	Link Type	Link Upstream Node	Link Downstream Node	Link Shape	Link Material	Link Number of Barrels	Link Actual Length (ft)	Link Hydraulic Length (ft)	Link Manning's N Value	Link Slope (%)	Link Rise (ft)	Link Span (ft)	Link Soffit Upstream (ft)	Link Soffit Downstream (ft)	Link Invert Upstream (ft)	Link Invert Downstream (ft)
BR35-A-1	Pipe	BR35-A-1	BR35-OUT-1	Circular	Plastic	1	63.28	78.85	0.010	1	0.67	n/a	436.92	436.13	436.25	435.46
BR35-A-2	Pipe	BR35-A-2	BR35-OUT-2	Circular	Plastic	1	29.76	29.85	0.010	1	0.67	n/a	430.67	430.37	430.00	429.70

1

RELEASED FOR CONSTRUCTION

By Beth Blair at 9:09 am, Jul 31, 2014

Pegasus Link Constructors



P.srilakshmi 7/15/2014



ISSUE RECORD				Pegasus Link Constructors,LLC		AECOM Technical Services, Inc.- F-3580 16000 Dallas Parkway, Suite 350 Dallas, Texas 75248	HORSESHOE PROJECT DRAINAGE HYDRAULIC DATA LINK CONFIGURATION	FILE NAME: 042DA5604RPT CONTROL: ECP0DR6897 DESIGN PACKAGE: RFC SHEET: 04 OF 04	DESIGNED SP DRAWN BZ CHECKED SV APPROVED SV	FED. RD. DIST. NO. 6 STATE TEXAS 1068	FEDERAL AID PROJECT NO. (SEE TITLE SHEET) DISTRICT DAL 04	HIGHWAY NO. IH 30 COUNTY DALLAS SECTION 116	SHEET NO. DA5604
NO.	DESCRIPTION	DATE											
B	REVISED	07/05/2013											
C	FINAL	09/09/2013											
O	RFC	10/10/2013											
1	NDC 00126	07/15/2014											

\\pwc\cs_pwc\dwg\K\27719\19805_146_042da5604rpt.dgn 7/15/2014 7:23:58 PM

PWD055
042da5701c1c.dgn

DRAINAGE LINK HYDRAULICS SYSTEM F-A
FREQUENCY -10YEAR

Link ID	Link Discharge (CFS)	Link Capacity (CFS)	Link Uniform Depth (ft)	Link Uniform Velocity (ft/s)	Link Critical Depth (ft)	Link Critical Velocity (ft/s)	Link Critical Slope (ft/ft)	Link Friction Slope (ft/ft)	Link Actual Velocity Downstream (ft/s)	Link Actual Velocity Upstream (ft/s)	Link Actual Depth Downstream (ft)	Link Actual Depth Upstream (ft)	HGL Link Downstream (ft)	HGL Link Upstream (ft)	Link EGL Downstream (ft)	Link EGL Upstream (ft)	Link Upstream Junction Loss (ft)	FN Node Cumulative Tc (min)	FN Node Tc Used (min)
F-A-02	6.29	21.89	0.73	6.03	0.89	4.67	0	0.01	5.95	4.40	0.74	0.93	386.74	387.43	387.29	387.77	0.04	5.70	10
F-A-02A	5.61	40.90	0.50	9.13	0.84	4.51	0	0.03	7.49	4.33	0.58	0.86	387.08	387.86	387.95	388.18	0.03	5.67	10
F-A-02B	1.25	30.31	0.28	4.74	0.38	2.94	0	0.02	4.62	2.26	0.28	0.46	387.28	387.86	387.62	387.92	0.00	5.57	10
F-A-02D	4.37	51.04	0.40	9.92	0.73	4.18	0	0.04	9.61	4.00	0.40	0.76	387.40	390.26	388.85	390.53	0.02	5.26	10
F-A-03	2.28	34.33	0.35	6.20	0.52	3.47	0	0.02	6.17	3.46	0.35	0.53	389.85	391.53	390.45	391.71	0.00	4.66	10
F-A-02C	2.09	26.32	0.38	4.99	0.50	3.38	0	0.01	4.94	2.44	0.38	0.63	389.88	390.63	390.26	390.69	0.01	5.11	10
F-A-04	1.00	22.37	0.29	3.58	0.34	2.79	0	0.01	3.58	2.16	0.29	0.41	391.29	393.91	391.49	393.96	0.00	1.50	10

DRAINAGE LINK HYDRAULICS SYSTEM F-B FREQUENCY -10YEAR

F-B-01	1.69	34.66	0.30	5.70	0.45	3.18	0	0.02	0.54	2.14	2.00	0.60	386.00	385.95	386.00	386.02	0.00	1.95	10
F-B-02A	0.69	34.66	0.20	4.35	0.28	2.57	0	0.02	3.97	1.95	0.21	0.34	390.04	390.34	390.29	390.38	0.00	1.91	10

DRAINAGE LINK HYDRAULICS SYSTEM F-C FREQUENCY -10YEAR

F-C-02A	23.73	32.92	1.58	7.28	1.66	6.86	0	0.01	4.83	4.93	2.50	2.37	387.50	387.87	387.86	388.30	0.21	6.40	10
F-C-03	23.73	33.95	1.54	7.48	1.66	6.86	0	0.01	4.93	5.47	2.37	2.06	387.87	388.06	388.30	388.57	0.10	6.21	10
F-C-02	2.28	66.47	0.25	9.86	0.52	3.47	0	0.07	0.87	1.35	1.56	1.06	388.06	388.06	388.57	388.09	0.01	3.25	10
F-C-04	21.45	39.95	1.30	8.30	1.57	6.59	0	0.01	8.00	6.16	1.34	1.67	387.34	388.14	388.34	388.81	0.09	6.09	10
F-C-05	2.30	71.39	0.25	10.38	0.53	3.48	0	0.08	8.02	2.47	0.29	0.67	387.27	388.47	388.27	388.52	0.01	1.50	10
F-C-06	19.15	24.55	1.65	5.57	1.48	6.31	0	0	5.50	5.50	1.67	1.67	388.14	388.51	388.81	388.98	0.01	5.73	10
F-C-07	12.59	16.91	1.29	5.87	1.28	5.95	0	0	5.95	5.55	1.28	1.36	388.62	388.96	388.98	389.50	0.07	5.58	10
F-C-08	1.34	65.39	0.20	8.30	0.40	2.99	0	0.07	7.29	2.29	0.22	0.48	387.82	388.98	388.65	389.04	0.00	2.25	10
F-C-13D	11.25	18.52	1.13	6.15	1.20	5.70	0	0.01	6.15	5.21	1.13	1.30	388.73	389.40	389.32	389.90	0.09	5.34	10
F-C-13C	11.25	32.94	0.81	9.48	1.20	5.70	0	0.02	6.91	5.22	1.03	1.30	389.13	389.50	389.87	390.00	0.09	5.33	10
F-C-09	11.25	38.61	0.74	10.67	1.20	5.70	0	0.02	9.12	5.38	0.83	1.26	389.03	390.26	390.33	390.77	0.06	5.28	10
F-C-10	1.25	71.48	0.18	8.65	0.38	2.95	0	0.09	0.60	1.95	1.26	0.51	390.26	390.21	390.77	390.27	0.00	2.51	10
F-C-13B	10.00	36.59	0.72	9.92	1.13	5.45	0	0.02	8.20	5.05	0.82	1.21	389.82	390.71	390.87	391.17	0.07	5.24	10
F-C-13A	10.00	31.40	0.78	8.88	1.13	5.45	0	0.02	6.66	5.05	0.97	1.21	390.47	390.81	391.16	391.27	0.07	5.23	10
F-C-16	10.00	32.19	0.77	9.03	1.13	5.45	0	0.02	8.44	5.21	0.81	1.18	390.41	391.68	391.52	392.14	0.04	5.13	10
F-C-13	2.90	20.97	0.50	4.69	0.59	3.71	0	0.01	4.68	3.61	0.50	0.61	391.00	391.71	391.34	391.92	0.01	3.38	10
F-C-14	1.91	15.43	0.48	3.32	0.48	3.31	0	0	2.38	2.41	0.61	0.60	391.71	391.74	391.92	391.82	0.01	3.18	10
F-C-14A	0.99	18.35	0.32	3.12	0.34	2.77	0	0.01	3.11	2.76	0.32	0.34	391.32	391.74	391.47	391.86	0.00	3.00	10
F-C-14B	0.99	20.51	0.30	3.37	0.34	2.77	0	0.01	3.37	2.16	0.30	0.41	391.70	392.41	391.88	392.46	0.00	2.58	10

DRAINAGE LINK HYDRAULICS SYSTEM F-D FREQUENCY -10YEAR

F-D-09	20.2	34.26	1.10	11.36	1.61	7.44	0.01	0.02	6.43	6.43	2.00	2.00	387.19	388.23	387.83	388.87	0.19	3.45	10
F-D-10A	8.51	30.54	0.72	8.32	1.04	5.16	0	0.02	8.30	5.08	0.72	1.05	386.12	389.05	387.20	389.46	0.01	3.12	10
F-D-10	8.51	32.42	0.70	8.68	1.04	5.16	0	0.02	8.68	3.27	0.70	1.54	388.7	394.54	389.87	394.57	0.11	2.57	10
F-D-11	12.50	21.96	1.08	7.24	1.27	5.93	0	0.01	3.98	4.75	2.00	1.56	387.19	387.76	387.44	388.16	0.10	6.95	10
F-D-12	8.90	17.18	1.03	5.48	1.06	5.24	0	0.00	5.48	4.65	1.03	1.17	393.79	395.00	394.26	395.42	0.11	5.62	10
F-D-13	10.84	17.34	1.14	5.84	1.18	5.62	0	0.01	5.82	5.48	1.15	1.21	392.73	393.97	393.25	394.47	0.03	6.27	10
F-D-12A	5.80	29.06	0.61	7.23	0.85	4.55	0	0.01	3.02	2.89	1.18	1.22	395.00	395.16	395.42	395.21	0.05	5.60	10
F-D-15	1.66	41.11	0.27	6.39	0.45	3.16	0	0.03	5.86	2.37	0.29	0.55	404.79	405.55	405.33	405.61	0.00	2.88	10

DRAINAGE LINK HYDRAULICS SYSTEM F-E FREQUENCY -5YEAR

F-E-01	8.34	28.04	0.75	7.78	1.03	5.12	0	0.01	7.75	3.24	0.75	1.53	387.40	390.03	388.34	390.05	0.11	2.56	10
--------	------	-------	------	------	------	------	---	------	------	------	------	------	--------	--------	--------	--------	------	------	----

DRAINAGE LINK HYDRAULICS SYSTEM F-G FREQUENCY -10YEAR

F-G-01A	29.05	31.42	1.91	7.23	1.84	7.51	0.01	0	5.92	5.92	2.50	2.50	387.19	387.70	387.73	388.25	0.08	9.97	10
F-G-02	29.05	31.42	1.91	7.23	1.84	7.51	0.01	0	5.92	5.92	2.50	2.50	387.70	388.66	388.25	389.21	0.39	9.66	10
F-G-02B	9.53	54.80	0.56	13.08	1.10	5.36	0	0.05	3.03	3.03	2.00	2.00	388.66	388.82	389.21	388.96	0.14	3.24	10
F-G-03A	19.52	26.29	1.61	5.83	1.50	6.35	0	0	3.98	3.98	2.50	2.50	388.66	389.11	389.21	389.36	0.09	9.13	10
F-G-03	16.88	26.29	1.47	5.64	1.39	6.02	0	0	3.44	3.44	2.50	2.50	389.11	389.26	389.36	389.44	0.12	9.08	10
F-G-04	2.64	75.54	0.26	11.26	0.57	3.62	0	0.1	0.84	0.84	2.00	2.00	389.11	389.12	389.36	389.13	0.01	2.58	10
F-G-08	5.33	14.50	0.84	4.28	0.81	4.44	0	0	1.70	1.70	2.00	2.00	389.26	389.30	389.44	389.34	0.01	8.81	10
F-G-11	11.55	24.51	0.97	7.66	1.22	5.75	0	0.01	3.68	3.68	2.00	2.00	389.26	389.59	389.44	389.80	0.21	8.03	10
F-G-08B	4.95	14.50	0.81	4.17	0.78	4.34	0	0	1.58	1.58	2.00	2.00	389.30	389.33	389.34	389.37	0.02	8.72	10
F-G-08A	1.27	54.80	0.21	7.22	0.39	2.97	0	0.05	0.41	0.41	2.00	2.00	389.33	389.34	389.37	389.34	0.00	8.03	10
F-G-10B	3.68	14.50	0.69	3.83	0.67	3.97	0	0	1.17	1.17	2.00	2.00	389.33	389.35	389.37	389.37	0.01	8.47	10
F-G-10	3.17	14.50	0.63	3.73	0.62	3.80	0	0	1.01	1.01	2.00	2.00	389.35	389.39	389.37	389.40	0.02	8.03	10

RELEASED FOR CONSTRUCTION

By Alyssa Moss at 12:27 pm, Mar 27, 2015

Pegasus Link Constructors



P. Srilakshmi 3/6/2015

Texas Department of Transportation
© 2015

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
0	RFC	10/10/2013
1	NDC 00049	12/20/2013
2	NDC 00170	03/06/2015



Pegasus Link Constructors,LLC



AECOM Technical Services, Inc.- F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
DRAINAGE HYDRAULIC DATA
LINK HYDRAULICS

FILE NAME:	042DA5701CLC
CONTROL:	ECP0DR6897
DESIGN PACKAGE:	RFC
SHEET:	01 OF 05

DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
DRAWN BZ	6	(SEE TITLE SHEET)		IH 30
CHECKED SV	STATE	DISTRICT	COUNTY	SHEET NO.
APPROVED SP	TEXAS	DAL	DALLAS	DA5701
	CONTROL	SECTION	JOB	
	1068	04	116	

DRAINAGE LINK HYDRAULICS SYSTEM F-I
FREQUENCY - 10 YEAR

Link ID	Link Discharge (CFS)	Link Capacity (CFS)	Link Uniform Depth (ft)	Link Uniform Velocity (ft/s)	Link Critical Depth (ft)	Link Critical Velocity (ft/s)	Link Critical Slope (ft/ft)	Link Friction Slope (ft/ft)	Link Actual Velocity Downstream (ft/s)	Link Actual Velocity Upstream (ft/s)	Link Actual Depth Downstream (ft)	Link Actual Depth Upstream (ft)	Link HGL Downstream (ft)	Link HGL Upstream (ft)	Link EGL Downstream (ft)	Link EGL Upstream (ft)	Link Upstream Junction Loss (ft)	FN Node Cumulative Tc (min)	FN Node Tc Used (min)
F-I-02	38.18	108.99	1.43	10.32	1.92	7.06	0	0.01	3.97	3.97	3.50	3.50	387.51	387.64	387.75	387.88	0.00	17.70	17.7
F-I-03	37.84	72.26	1.54	10.36	2.00	7.55	0	0.01	5.35	5.35	3.00	3.00	387.64	387.95	387.88	388.40	0.18	17.62	17.62
F-I-11	0.49	34.66	0.17	3.94	0.23	2.40	0	0.02	0.16	0.17	2.00	1.71	387.64	387.64	387.88	387.64	0.00	1.14	10
F-I-12	0.67	34.66	0.19	4.32	0.28	2.50	0	0.02	0.21	0.31	2.00	1.28	387.95	387.95	388.40	387.95	0.00	1.78	10
F-I-04A	37.34	72.26	1.53	10.31	1.99	7.51	0	0.01	5.28	5.28	3.00	3.00	387.95	388.19	388.40	388.62	0.20	17.60	17.6
F-I-13	1.11	76.72	0.17	8.78	0.37	2.83	0	0.1	7.37	2.21	0.19	0.43	400.19	401.29	401.05	401.35	0.00	2.23	10
F-I-04B	36.51	72.26	1.51	10.27	1.97	7.44	0	0.01	5.17	5.17	3.00	3.00	388.19	388.44	388.62	388.85	0.24	17.59	17.58
F-I-04	36.51	72.26	1.51	10.27	1.97	7.44	0	0.01	5.17	5.17	3.00	3.00	388.44	388.53	388.85	388.95	0.07	17.58	17.58
F-I-05	34.99	72.26	1.47	10.12	1.92	7.31	0	0.01	4.95	4.95	3.00	3.00	388.53	389.02	388.95	389.42	0.27	17.41	17.37
F-I-14	2.18	34.66	0.34	6.14	0.51	3.42	0	0.02	0.69	0.69	2.00	2.00	388.53	388.54	388.95	388.55	0.01	2.23	10
F-I-06	34.99	72.26	1.47	10.12	1.92	7.31	0	0.01	4.95	4.95	3.00	3.00	389.02	389.34	389.42	389.73	0.28	17.37	17.37
F-I-07	34.03	72.26	1.45	10.04	1.89	7.23	0	0.01	9.95	7.11	1.46	1.92	387.58	389.93	389.12	390.74	0.03	17.06	17.06
F-I-15	1.40	34.66	0.27	5.40	0.41	3.04	0	0.02	0.45	0.46	2.00	1.85	389.34	389.35	389.73	389.35	0.00	1.45	10
F-I-16	0.48	34.66	0.16	3.91	0.23	2.34	0	0.02	3.89	1.70	0.17	0.29	389.17	390.14	389.41	390.17	0.00	1.45	10
F-I-8A	33.78	72.26	1.44	10.06	1.89	7.21	0	0.01	9.35	6.87	1.53	1.97	389.53	390.61	390.89	391.41	0.08	16.95	16.74
F-I-08	33.78	72.26	1.44	10.06	1.89	7.21	0	0.01	9.70	5.89	1.48	2.27	390.12	392.01	391.58	392.82	0.38	16.77	16.74
F-I-09	33.78	34.66	1.60	12.55	1.91	10.93	0.02	0.02	11.63	10.75	1.74	2.00	392.24	394.20	394.35	396.06	1.30	16.74	16.74
F-I-10A	31.55	34.66	1.50	12.52	1.88	10.28	0.01	0.02	11.46	10.04	1.64	2.00	398.69	400.57	400.73	402.21	0.94	16.69	16.69
F-I-17	30.46	30.90	1.61	11.22	1.87	9.97	0.01	0.02	10.53	9.69	1.73	2.00	402.35	403.76	404.08	405.30	0.94	16.66	16.66
F-I-10B	1.41	34.66	0.28	5.41	0.41	3.04	0	0.02	0.45	0.45	2.00	2.00	400.57	400.57	402.21	400.57	0.00	2.63	10
F-I-18	26.18	30.90	1.42	11.01	1.79	8.83	0.01	0.02	8.33	8.33	2.00	2.00	403.76	404.31	405.30	405.39	0.13	16.61	16.61
F-I-10	1.41	34.66	0.28	5.41	0.41	3.04	0	0.02	5.41	2.31	0.28	0.50	399.00	402.36	399.46	402.42	0.00	2.15	10
F-I-18A	20.70	30.81	1.20	10.53	1.63	7.54	0.01	0.02	6.59	6.59	2.00	2.00	404.31	405.26	405.39	405.93	0.67	10	10

DRAINAGE LINK HYDRAULICS SYSTEM F-J FREQUENCY - 10 YEAR

F-J-02	27.74	39.75	1.54	8.74	1.80	7.35	0.01	0.01	5.65	5.65	2.50	2.50	387.51	387.83	388.01	388.33	0.14	10.82	10.82
F-J-03	26.38	37.88	1.54	8.32	1.75	7.18	0.01	0.01	5.38	6.24	2.48	2.01	387.83	388.00	388.33	388.66	0.09	10.64	10.64
F-J-24	1.55	31.41	0.30	5.19	0.43	3.12	0	0.02	4.74	2.35	0.32	0.53	389.61	390.04	389.96	390.10	0.00	2.23	10
F-J-04	1.55	25.14	0.34	4.43	0.43	3.12	0	0.01	4.38	2.35	0.34	0.53	392.02	392.53	392.32	392.59	0.00	10.00	10
F-J-22	2.18	67.35	0.25	9.81	0.51	3.43	0	0.08	0.72	2.31	1.86	0.68	388.00	387.93	388.66	388.01	0.00	3.08	10
F-J-18	8.32	13.42	1.14	4.48	1.03	5.12	0	0	3.22	3.15	1.53	1.57	388.51	388.59	389.26	388.76	0.07	5.09	10
F-J-04A	14.78	22.18	1.20	7.54	1.39	6.36	0.01	0.01	7.51	5.61	1.20	1.56	388.37	389.52	389.25	390.15	0.18	10.24	10.24
F-J-04D	24.41	37.85	1.47	8.15	1.68	6.94	0	0.01	8.11	6.27	1.47	1.85	387.46	388.51	388.49	389.26	0.17	10.45	10.45
F-J-23	1.57	34.66	0.29	5.59	0.43	3.13	0	0.02	5.46	2.35	0.29	0.53	387.54	388.43	388.01	388.49	0.00	2.98	10
F-J-19	6.08	13.42	0.94	4.20	0.87	4.62	0	0	2.30	2.37	1.57	1.52	388.59	388.66	388.76	388.75	0.05	4.94	10
F-J-5B	13.60	22.73	1.11	7.56	1.33	6.14	0.01	0.01	7.38	5.50	1.14	1.47	389.10	389.89	389.94	390.47	0.14	10.12	10
F-J-20	3.67	13.42	0.72	3.62	0.67	3.97	0	0	1.98	3.37	1.14	0.76	388.66	388.76	388.75	388.94	0.01	4.20	10
F-J-05A	13.60	22.73	1.11	7.56	1.33	6.14	0.01	0.01	7.38	5.48	1.14	1.47	389.55	390.37	390.40	390.95	0.15	10.00	10
F-J-05	12.31	22.73	1.05	7.38	1.26	5.90	0	0.01	4.96	4.81	1.47	1.52	390.37	390.49	390.95	390.97	0.18	5.09	10
F-J-21	1.63	13.33	0.47	2.90	0.44	3.15	0	0	2.83	2.36	0.48	0.54	389.00	389.31	389.12	389.37	0.00	1.50	10
F-J-06	9.13	22.73	0.88	6.86	1.08	5.28	0	0.01	6.77	4.92	0.89	1.14	389.86	390.79	390.57	391.22	0.06	4.90	10
F-J-16	0.99	34.66	0.23	4.87	0.34	2.78	0	0.02	0.39	0.47	1.52	1.28	390.49	390.49	390.97	390.49	0.00	2.15	10
F-J-17	2.19	34.66	0.34	6.17	0.51	3.43	0	0.02	0.85	2.24	1.52	0.70	390.49	390.44	390.97	390.52	0.01	2.61	10
F-J-07	7.39	22.73	0.78	6.46	0.97	4.92	0	0.01	6.45	4.44	0.79	1.05	390.43	391.75	391.08	392.13	0.08	4.58	10
F-J-15	1.75	34.66	0.31	5.77	0.46	3.22	0	0.02	0.94	1.24	1.14	0.92	390.79	390.79	391.22	390.81	0.00	2.71	10
F-J-08	2.81	22.73	0.47	4.92	0.58	3.68	0	0.01	1.71	2.28	1.04	0.83	391.75	391.74	392.13	391.82	0.01	2.81	10
F-J-13	2.96	34.66	0.40	6.75	0.60	3.74	0	0.02	6.32	3.65	0.41	0.61	391.12	391.90	391.74	392.11	0.01	4.51	10
F-J-09	2.81	34.66	0.39	6.63	0.58	3.68	0	0.02	6.37	3.57	0.40	0.60	391.31	392.25	391.94	392.46	0.01	2.72	10
F-J-12	2.96	34.66	0.40	6.75	0.60	3.74	0	0.02	6.59	3.64	0.40	0.61	391.69	392.92	392.37	393.14	0.01	4.38	10
F-J-11	0.82	34.66	0.21	4.60	0.31	2.64	0	0.02	4.58	2.63	0.21	0.31	392.53	393.42	392.85	393.53	0.00	0.10	10
F-J-14	2.14	73.52	0.23	10.38	0.51	3.40	0	0.09	8.93	2.45	0.26	0.64	392.57	394.33	393.82	394.38	0.01	4.36	10
F-J-10	0.82	34.66	0.21	4.60	0.31	2.64	0	0.02	4.55	2.05	0.21	0.37	393.33	394.05	393.65	394.10	0.00	1.5	10
F-J-20-A	1.63	13.28	0.48	2.84	0.44	3.15	0	0	1.49	2.83	0.76	0.48	388.76	389.00	388.94	389.12	0.00	0.48	10

2

RELEASED FOR CONSTRUCTION

By Beth Blair at 9:09 am, Jul 31, 2014

Pegasus Link Constructors



P.srilakshmi 7/15/2014



ISSUE RECORD		
NO.	DESCRIPTION	DATE
8	REVISED	07/05/2013
C	FINAL	09/09/2013
0	RFC	10/10/2013
1	NDC 00064	03/04/2014
2	NDC 00126	07/15/2014



Pegasus Link Constructors,LLC



AECOM Technical Services, Inc.- F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
DRAINAGE HYDRAULIC DATA
LINK HYDRAULICS

FILE NAME: 042DA5702CLC
CONTROL: ECP0DR6897
DESIGN PACKAGE: RFC
SHEET: 02 OF 05

DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
DRAWN BZ	6	(SEE TITLE SHEET)		IH 30
CHECKED SV	STATE	DISTRICT	COUNTY	SHEET NO.
APPROVED SV	TEXAS	DAL	DALLAS	DA5702
	CONTROL	SECTION	JOB	
SV	1068	04	116	

DRAINAGE LINK HYDRAULICS SYSTEM F-L
FREQUENCY -10YEAR

Link ID	Link Discharge (CFS)	Link Capacity (CFS)	Link Uniform Depth (ft)	Link Uniform Velocity (ft/s)	Link Critical Depth (ft)	Link Critical Velocity (ft/s)	Link Critical Slope (ft/ft)	Link Friction Slope (ft/ft)	Link Actual Velocity Downstream (ft/s)	Link Actual Velocity Upstream (ft/s)	Link Actual Depth Downstream (ft)	Link Actual Depth Upstream (ft)	Link HGL Downstream (ft)	Link HGL Upstream (ft)	Link EGL Downstream (ft)	Link EGL Upstream (ft)	Link Upstream Junction Loss (ft)	FN Node Cumulative Tc (min)	FN Node Tc Used (min)
F-L-02	2.20	35.83	0.34	6.31	0.51	3.44	0	0.02	6.29	2.46	0.34	0.66	386.34	388.66	386.96	388.71	0.01	3.28	10
DRAINAGE LINK HYDRAULICS SYSTEM F-M FREQUENCY -10YEAR																			
F-M-11	7.61	41.85	0.58	10.12	0.98	4.97	0	0.03	10.02	4.96	0.58	0.98	391.97	395.98	393.54	396.36	0.00	4.31	10
F-M-04	7.61	39.41	0.60	9.69	0.98	4.97	0	0.03	9.02	4.50	0.63	1.06	405.63	407.37	406.90	407.75	0.00	4.22	10
F-M-10	0.90	16.23	0.32	2.79	0.33	2.70	0	0	1.09	1.55	0.62	0.48	414.89	414.89	415.11	414.93	0.00	4.05	10
F-M-03	3.48	18.67	0.59	4.53	0.65	3.91	0	0.01	4.53	3.81	0.59	0.67	406.90	407.91	407.22	408.14	0.01	3.63	10
F-M-07	4.13	34.66	0.47	7.43	0.71	4.11	0	0.02	6.00	2.68	0.54	0.98	406.85	407.51	407.41	407.53	0.03	3.89	10
F-M-09	3.01	50.22	0.33	8.79	0.61	3.75	0	0.04	6.24	3.64	0.42	0.62	414.42	414.89	415.03	415.11	0.01	4.23	10
F-M-02	2.46	17.18	0.51	3.85	0.55	3.54	0	0	3.85	3.48	0.51	0.55	407.75	408.05	407.98	408.25	0.01	3.41	10
F-M-05	1.02	42.48	0.21	5.67	0.35	2.78	0	0.03	5.01	2.17	0.23	0.42	407.47	407.97	407.87	408.03	0.00	1.95	10
F-M-01	2.46	17.33	0.51	3.89	0.55	3.54	0	0	3.86	2.49	0.51	0.70	408.01	408.25	408.24	408.30	0.01	3.36	10
F-M-08	10.61	21.04	1.00	6.72	1.17	5.57	0	0.01	3.38	3.38	2.00	2.00	393.19	393.44	393.37	393.63	0.15	5.04	10
F-N-01A	3.01	21.08	0.51	4.76	0.61	3.75	0	0.01	0.96	2.69	2.00	0.77	393.44	393.41	393.63	393.53	0.01	4.45	10
F-M-09-B	3.01	54.22	0.32	9.28	0.61	3.75	0	0.05	9.25	3.66	0.32	0.61	392.96	397.41	394.30	397.63	0.01	4.29	10
F-M-09-A	3.01	70.15	0.28	11.11	0.61	3.75	0	0.08	10.51	3.75	0.29	0.61	397.09	400.11	398.83	400.32	0.00	4.24	10
DRAINAGE LINK HYDRAULICS SYSTEM F-N FREQUENCY -5YEAR																			
F-N-07	6.14	15.52	0.88	4.61	0.88	4.63	0	0	1.96	4.21	2.00	0.94	392.16	392.27	392.22	392.56	0.02	5.84	10
F-N-02A	4.03	15.47	0.70	4.14	0.70	4.08	0	0	4.14	3.97	0.70	0.72	392.02	392.79	392.29	393.05	0.01	5.09	10
F-N-02	4.03	15.33	0.70	4.08	0.70	4.08	0	0	4.08	3.91	0.70	0.73	392.77	393.03	393.03	393.28	0.02	4.85	10
F-N-03	2.89	19.25	0.52	4.40	0.59	3.71	0	0.01	4.40	3.61	0.52	0.60	392.82	393.20	393.13	393.42	0.01	4.67	10
F-N-04	1.56	13.42	0.46	2.83	0.43	3.12	0	0	1.94	2.18	0.60	0.56	393.20	393.22	393.42	393.29	0.00	4.55	10
F-N-05	1.56	14.51	0.44	3.04	0.43	3.12	0	0	2.18	3.01	0.56	0.44	393.22	393.60	393.29	393.74	0.00	3.77	10
F-N-06	1.56	63.33	0.22	8.49	0.43	3.12	0	0.07	7.89	2.35	0.23	0.53	393.38	395.03	394.36	395.09	0.00	3.74	10
DRAINAGE LINK HYDRAULICS SYSTEM F-P FREQUENCY -10YEAR																			
F-P-01	16.80	29.38	1.09	9.65	1.48	6.75	0.01	0.01	5.35	5.35	2.00	2.00	390.80	391.48	391.24	391.75	0.44	3.72	10
F-P-02	8.11	49.03	0.55	11.54	1.01	5.07	0	0.04	2.58	2.63	2.00	1.90	387.40	387.50	387.50	387.61	0.10	3.27	10

RELEASED FOR CONSTRUCTION

By Amanda Lee at 10:22 am, Apr 17, 2015

Pegasus Link Constructors



Texas Department of Transportation
© 2015

ISSUE RECORD				Pegasus Link Constructors, LLC		AECOM Technical Services, Inc.- F-3580 16000 Dallas Parkway, Suite 350 Dallas, Texas 75248	HORSESHOE PROJECT DRAINAGE HYDRAULIC DATA LINK HYDRAULICS	FILE NAME: 042DA5703CLC CONTROL: ECP0DR6897 DESIGN PACKAGE: RFC SHEET: 01 OF 01	DESIGNED SP DRAWN BZ CHECKED FG APPROVED SP	FED. RD. DIV. NO. 6 STATE TEXAS CONTROL 1068	FEDERAL AID PROJECT NO. (SEE TITLE SHEET) DISTRICT DAL SECTION 04	HIGHWAY NO. IH 30 COUNTY DALLAS JOB 116	SHEET NO. DA5703
NO.	DESCRIPTION	DATE											
B	REVISED	07/05/2013											
C	FINAL	09/09/2013											
O	RFC	10/10/2013											
1	NDC 00114	06/20/2014											
2	NDC 00172	04/08/2015											

DRAINAGE LINK HYDRAULICS BRIDGES FREQUENCY - 10YEAR																			
Link ID	Link Discharge (CFS)	Link Capacity (CFS)	Link Uniform Depth (ft)	Link Uniform Velocity (ft/s)	Link Critical Depth (ft)	Link Critical Velocity (ft/s)	Link Critical Slope (ft/ft)	Link Friction Slope (ft/ft)	Link Actual Velocity Downstream (ft/s)	Link Actual Velocity Upstream (ft/s)	Link Actual Depth Downstream (ft)	Link Actual Depth Upstream (ft)	Link HGL Downstream (ft)	Link HGL Upstream (ft)	Link EGL Downstream (ft)	Link EGL Upstream (ft)	Link Upstream Junction Loss (ft)	FN Node Cumulative Tc (min)	FN Node Tc Used (min)
BR4-A-02	1.76	3.18	0.44	5.98	0.59	4.23	0.01	0.01	5.87	4.22	0.45	0.60	447.28	448.05	447.82	448.33	0.00	2.89	10
BR4-A-03	1.18	1.76	0.40	5.39	0.51	4.07	0.01	0.01	5.30	3.82	0.40	0.55	448.02	448.64	448.46	448.90	0.04	2.77	10
BR4-A-04	0.66	1.76	0.28	4.66	0.38	3.19	0	0.01	4.61	3.19	0.28	0.38	448.37	448.93	448.70	449.09	0.00	2.64	10
BR4-A-05	0.37	0.82	0.24	4.05	0.31	2.92	0.01	0.01	3.97	2.82	0.24	0.32	448.95	449.31	449.20	449.44	0.01	2.55	10
BR4-A-06	0.24	0.82	0.19	3.63	0.25	2.54	0	0.01	3.29	2.47	0.20	0.25	449.19	449.31	449.36	449.41	0.01	2.52	10
BR4-A-07	0.12	0.82	0.13	2.96	0.12	3.19	0.02	0.01	1.22	1.30	0.25	0.24	449.31	449.40	449.41	449.42	0.01	2.48	10
BR4-A-09	1.24	1.41	0.48	4.57	0.53	4.18	0.01	0.01	4.57	3.87	0.48	0.58	449.59	450.67	449.91	450.94	0.05	2.92	10
BR4-A-10	0.58	1.55	0.28	4.12	0.36	3.04	0	0.01	4.12	1.98	0.28	0.53	450.38	451.26	450.64	451.28	0.04	2.65	10
BR6-A-13	0.41	0.63	0.30	3.43	0.34	2.94	0.01	0.01	3.43	2.11	0.30	0.50	454.36	455.51	454.54	455.54	0.07	2.61	10
BR6-B-04	1.97	2.46	0.56	5.03	0.63	4.45	0.01	0.01	5.02	4.29	0.56	0.65	450.59	451.27	450.99	451.58	0.02	3.16	10
BR6-B-05	0.98	1.36	0.42	4.23	0.47	3.72	0.01	0.01	4.23	2.81	0.42	0.67	451.20	452.29	451.48	452.34	0.12	2.39	10
BR6-B-06	0.82	1.91	0.30	5.26	0.43	3.42	0	0.01	5.25	2.35	0.31	0.66	453.43	454.79	453.86	454.83	0.09	3.51	10
BR8-A-01	0.81	4.28	0.25	6.05	0.40	3.15	0	0.03	5.65	2.04	0.26	0.57	438.24	439.09	438.74	439.10	0.03	1.64	10
BR9-A-01	1.01	1.22	0.46	3.90	0.48	3.79	0.01	0.01	2.90	2.90	0.67	0.67	445.70	446.18	446.17	446.23	0.13	2.09	10
BR9-A-02	1.85	1.93	0.53	6.27	0.61	5.50	0.01	0.01	6.22	5.30	0.53	0.67	444.86	445.70	445.47	446.17	0.10	2.83	10
BR9-A-12	0.57	1.36	0.30	3.74	0.35	3.09	0	0.01	3.72	1.96	0.30	0.52	449.93	450.52	450.14	450.54	0.04	2.78	10
BR9-A-13	1.16	1.88	0.38	5.66	0.51	4.02	0.01	0.02	5.56	3.75	0.38	0.55	449.40	450.18	449.89	450.43	0.04	3.01	10
BR9-A-14	1.66	2.06	0.45	6.57	0.60	5.05	0.01	0.02	6.41	4.79	0.46	0.65	448.77	449.67	449.41	450.07	0.05	3.11	10
BR9-A-15	2.17	3.36	0.39	10.22	0.64	6.30	0.02	0.05	7.24	6.20	0.53	0.67	448.68	449.03	449.50	449.65	0.09	3.21	10
BR9-A-25	1.13	2.22	0.34	6.38	0.50	3.98	0.01	0.02	3.22	3.25	0.67	0.65	447.32	447.36	447.48	447.53	0.04	2.78	10
BR9-A-26	0.59	2.02	0.25	5.02	0.36	3.07	0.01	0.02	4.99	1.98	0.25	0.53	446.95	448.21	447.34	448.23	0.04	2.62	10
BR9-A-27	0.56	1.37	0.30	3.72	0.35	3.01	0	0.01	3.70	1.94	0.30	0.51	447.46	448.04	447.68	448.06	0.04	2.59	10
BR9-A-28	1.12	1.37	0.46	4.36	0.50	3.96	0.01	0.01	4.35	3.70	0.46	0.54	447.27	447.70	447.56	447.95	0.04	2.80	10
BR9-A-29	1.68	2.47	0.50	4.88	0.58	4.14	0.01	0.01	4.86	4.13	0.51	0.58	446.78	447.22	447.15	447.49	0.00	2.99	10
BR9-A-30	2.26	2.47	0.62	5.16	0.67	4.79	0.01	0.01	4.14	4.14	0.83	0.83	446.77	447.13	447.20	447.39	0.04	3.15	10
BR9-A-31	2.85	2.92	0.67	6.11	0.74	5.58	0.01	0.01	5.24	5.24	0.83	0.83	446.27	446.77	446.92	447.20	0.05	3.32	10
BR9-A-32	3.42	3.48	0.67	7.29	0.78	6.45	0.01	0.01	6.93	6.27	0.71	0.83	445.89	446.27	446.63	446.92	0.07	3.44	10
BR9-A-35	1.16	1.57	0.43	4.91	0.51	4.04	0.01	0.01	4.77	3.83	0.44	0.54	446.17	446.45	446.52	446.70	0.03	2.36	10
BR9-A-36	0.79	1.57	0.33	4.52	0.42	3.39	0	0.01	4.43	3.24	0.34	0.44	446.25	446.65	446.55	446.82	0.02	2.25	10
BR9-A-37	0.46	1.57	0.25	3.90	0.31	2.89	0	0.01	3.79	2.81	0.25	0.31	446.46	446.70	446.68	446.83	0.01	2.18	10
BR9-A-38	0.20	1.43	0.17	2.87	0.16	2.93	0.01	0.01	1.23	1.41	0.31	0.28	446.70	446.78	446.83	446.80	0.00	2.08	10
BR9-A-39	0.43	1.62	0.23	3.90	0.31	2.72	0	0.01	1.33	1.57	0.58	0.49	446.18	446.18	446.24	446.22	0.00	2.09	10
BR9-A-40	0.30	1.78	0.19	3.81	0.25	2.59	0	0.01	1.11	1.58	0.49	0.36	446.18	446.17	446.22	446.21	0.00	2.05	10
BR9-A-41	0.19	1.78	0.15	3.34	0.16	2.90	0.01	0.01	1.01	1.72	0.36	0.24	446.17	446.15	446.21	446.20	0.00	1.73	10
BR9-A-42	0.09	1.78	0.10	2.69	0.16	1.38	0	0.01	2.55	1.07	0.11	0.20	446.02	446.20	446.12	446.20	0.00	1.50	10
BR9-A-43	0.60	1.78	0.27	4.60	0.37	3.04	0	0.01	1.73	1.86	0.67	0.58	446.17	446.18	446.21	446.24	0.02	2.16	10
BR9-A-44	0.34	3.41	0.14	6.22	0.27	2.58	0	0.05	6.20	1.65	0.14	0.38	438.42	440.58	439.03	440.58	0.01	6.85	10
BR9-A-45	2.84	3.15	0.50	10.20	0.66	8.17	0.03	0.04	9.11	8.14	0.56	0.67	434.96	435.83	436.25	436.87	0.18	9.93	10
BR9-A-45A	1.10	3.15	0.27	8.20	0.50	3.93	0.01	0.04	7.88	3.62	0.28	0.54	437.06	438.82	438.03	439.06	0.04	6.96	10
BR9-A-45B	1.98	3.15	0.38	9.52	0.62	5.82	0.01	0.04	9.10	5.66	0.40	0.67	435.40	437.51	436.69	438.04	0.10	9.86	10
BR2-A-OUT1	1.75	3.50	0.33	10.02	0.60	5.25	0.01	0.06	7.51	5.00	0.42	0.67	439.02	439.73	439.90	440.16	0.11	1.92	10
BR4-A-OUTX	2.16	2.56	0.59	5.27	0.66	4.67	0.01	0.01	5.21	4.57	0.59	0.67	449.30	449.61	449.72	449.95	0.01	3.29	10
BR4-A-OUTY	2.51	3.17	0.56	6.45	0.70	5.11	0.01	0.01	4.60	4.63	0.83	0.81	447.57	447.65	447.90	448.00	0.05	3.02	10
BR6-A-OUT6	1.24	1.57	0.45	4.99	0.52	4.20	0.01	0.01	4.83	3.53	0.46	0.67	451.79	452.44	452.15	452.49	0.19	1.16	10
BR6-A-OUT9	1.04	1.24	0.47	3.96	0.48	3.84	0.01	0.01	3.96	3.67	0.47	0.50	454.00	454.40	454.24	454.63	0.02	3.22	10
BR6-B-OUTB	0.85	0.95	0.37	5.44	0.45	4.55	0.01	0.02	5.38	4.32	0.37	0.50	447.87	449.06	448.33	449.06	0.29	2.31	10
BR6-B-OUTC	2.90	3.05	0.65	6.38	0.74	5.65	0.01	0.01	5.33	5.34	0.83	0.82	450.68	450.85	451.12	451.34	0.07	3.42	10
BR6-B-OUTD	1.60	1.74	0.50	5.64	0.59	4.92	0.01	0.01	5.62	4.58	0.51	0.66	452.90	453.78	453.39	454.15	0.07	3.73	10
BR9-A-OUT4	0.54	1.03	0.26	5.32	0.37	3.47	0.01	0.02	5.07	2.74	0.27	0.50	449.35	450.13	449.75	450.17	0.12	1.50	10

NO.

B

C

O

REVISED

FINAL

RFC

07/05/2013


09/09/2013

10/10/2013

ISSUE RECORD

DESCRIPTION

DATE



Pegasus Link Constructors,LLC

AECOM

AECOM Technical Services, Inc.- F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT

DRAINAGE HYDRAULIC DATA

LINK HYDRAULICS

FILE NAME:
042DA5704CLC

CONTROL:
ECP0DR6897

DESIGN PACKAGE:
RFC

SHEET:
03 OF 05

DESIGNED
SP

DRAWN
BZ

CHECKED
FG

APPROVED
SP

FED. RD.
DIV. NO.
6

FEDERAL AID PROJECT NO.
(SEE TITLE SHEET)

STATE
TEXAS

SECTION
1068

HIGHWAY NO.
1H 30

COUNTY
DALLAS


JOB
116


DA5704

RELEASED FOR CONSTRUCTION

By Beth Blair at 3:02 pm, Oct 22, 2013

Pegasus Link Constructors





PWDGCS\$
042da5704c_lg.dgn

10/10/2013 9:14:19 PM
\\pwcgs\pwcgs\work\10198\19805_149\042da5704c_lg.dgn

PWD055
042da5705c1c.dgn

DRAINAGE LINK HYDRAULICS BRIDGES
FREQUENCY - 10 YEAR

Link ID	Link Discharge (CFS)	Link Capacity (CFS)	Link Uniform Depth (ft)	Link Uniform Velocity (ft/s)	Link Critical Depth (ft)	Link Critical Velocity (ft/s)	Link Critical Slope (ft/ft)	Link Friction Slope (ft/ft)	Link Actual Velocity Downstream (ft/s)	Link Actual Velocity Upstream (ft/s)	Link Actual Depth Downstream (ft)	Link Actual Depth Upstream (ft)	Link HGL Downstream (ft)	Link HGL Upstream (ft)	Link EGL Downstream (ft)	Link EGL Upstream (ft)	Link Upstream Junction Loss (ft)	FN Node Cumulative Tc (min)	FN Node Tc Used (min)
BR3-A-01	2.80	2.82	0.68	5.90	0.73	5.51	0.01	0.01	5.89	5.14	0.68	0.83	448.37	449.12	448.91	449.59	0.10	3.39	10
BR3-A-02	0.53	2.59	0.26	3.75	0.32	2.75	0	0.01	0.98	1.23	0.83	0.62	446.90	446.90	446.91	446.92	0.00	2.80	10
BR3-A-03	0.34	1.57	0.21	3.59	0.27	2.58	0	0.01	3.57	1.65	0.21	0.38	446.50	447.01	446.70	447.01	0.01	2.24	10
BR3-A-04	0.61	2.46	0.28	3.74	0.33	2.96	0	0.01	3.74	1.86	0.28	0.48	446.28	446.90	446.50	446.91	0.02	3.18	10
BR3-A-05	1.19	2.46	0.41	4.50	0.49	3.57	0	0.01	4.46	3.43	0.41	0.51	445.98	446.50	446.29	446.69	0.02	3.44	10
BR3-A-06	1.76	2.46	0.52	4.93	0.59	4.23	0.01	0.01	4.90	4.04	0.52	0.62	445.67	446.19	446.05	446.47	0.03	3.64	10
BR3-A-07	2.33	2.97	0.56	6.03	0.68	4.88	0.01	0.01	5.98	4.67	0.56	0.72	445.09	445.86	445.65	446.23	0.04	3.83	10
BR3-A-08	2.90	2.97	0.67	6.21	0.74	5.65	0.01	0.01	6.17	5.43	0.67	0.79	444.74	445.32	445.33	445.82	0.05	3.99	10
BR3-A-10	0.57	1.77	0.26	4.52	0.35	3.07	0	0.01	4.50	1.96	0.26	0.52	444.01	445.02	444.33	445.04	0.04	3.28	10
BR3-A-11	1.15	1.77	0.39	5.41	0.51	4.03	0.01	0.01	4.65	3.74	0.45	0.55	444.20	444.35	444.53	444.61	0.04	3.49	10
BR3-A-13	0.50	1.80	0.30	2.84	0.31	2.73	0	0	1.18	1.69	0.61	0.44	443.21	443.23	443.39	443.27	0.01	3.02	10
BR3-A-14	1.03	1.86	0.44	3.53	0.45	3.43	0	0.01	3.53	3.31	0.44	0.46	442.95	443.21	443.14	443.39	0.01	3.28	10
BR3-A-15	1.59	2.07	0.54	4.21	0.57	4.03	0.01	0.01	4.19	3.82	0.55	0.59	442.74	443.10	443.01	443.35	0.03	3.50	10
BR3-A-16	2.18	2.18	0.68	4.54	0.66	4.69	0.01	0.01	4.69	4.30	0.66	0.73	442.52	442.92	442.77	443.25	0.05	3.70	10
BR3-A-17	2.78	2.93	0.78	4.25	0.72	4.63	0	0	3.98	4.05	0.83	0.82	442.39	442.51	442.81	442.77	0.01	3.87	10
BR4-A-16	0.67	1.36	0.33	3.87	0.39	3.17	0.01	0.01	3.87	2.10	0.33	0.58	448.85	449.77	449.08	449.80	0.06	2.56	10
BR4-A-17	1.51	2.70	0.45	5.07	0.55	3.95	0	0.01	5.07	3.80	0.45	0.57	448.01	448.92	448.41	449.16	0.02	3.89	10
BR4-A-19	2.48	2.70	0.63	5.61	0.70	5.08	0.01	0.01	5.61	4.75	0.63	0.76	447.13	448.33	447.62	448.73	0.06	4.18	10
BR4-A-21	0.81	1.57	0.34	4.53	0.42	3.47	0.01	0.01	4.24	2.32	0.36	0.65	446.25	446.65	446.53	446.69	0.08	3.76	10
BR4-A-22	1.02	1.57	0.39	4.77	0.48	3.80	0.01	0.01	4.73	2.91	0.39	0.67	445.57	446.28	445.92	446.33	0.13	3.76	10
BR4-A-23	1.03	1.57	0.39	4.82	0.48	3.82	0.01	0.01	4.78	2.96	0.40	0.67	444.96	445.79	445.32	445.85	0.14	3.76	10
BR4-A-24	0.98	3.06	0.32	4.98	0.44	3.37	0	0.01	4.93	2.17	0.33	0.64	444.27	445.14	444.65	445.16	0.05	3.76	10
BR4-A-25	1.82	3.06	0.46	5.87	0.61	4.28	0.01	0.01	5.84	4.03	0.46	0.64	443.50	444.59	444.03	444.87	0.04	3.92	10
BR4-A-26	2.77	3.06	0.62	6.37	0.73	5.47	0.01	0.01	6.35	5.16	0.62	0.80	442.62	443.83	443.25	444.30	0.07	4.14	10
BR5-A-01	0.53	4.93	0.18	5.89	0.31	2.87	0	0.03	5.89	1.78	0.18	0.44	447.20	450.43	447.75	450.44	0.01	2.99	10
BR5-A-02	1.28	4.93	0.29	7.59	0.50	3.69	0	0.03	7.36	3.52	0.30	0.53	445.92	447.55	446.76	447.76	0.02	3.27	10
BR5-A-03	1.85	4.93	0.35	8.39	0.61	4.31	0.01	0.03	8.01	4.12	0.37	0.64	444.61	446.26	445.61	446.55	0.03	3.37	10
BR5-A-04	2.29	4.32	0.43	8.05	0.68	4.83	0.01	0.02	8.03	4.65	0.43	0.70	441.43	444.94	442.44	445.31	0.03	3.46	10
BR6-B-19	0.66	3.07	0.21	7.00	0.39	3.12	0	0.04	6.97	2.08	0.21	0.57	444.82	449.07	445.58	449.10	0.06	1.93	10
BR6-B-20	1.37	3.07	0.31	8.53	0.55	4.44	0.01	0.04	8.35	4.11	0.32	0.61	442.85	445.21	443.94	445.52	0.06	2.17	10
BR6-B-21	1.83	3.07	0.37	9.16	0.61	5.44	0.01	0.04	7.72	5.24	0.43	0.67	442.39	443.20	443.32	443.66	0.06	2.28	10
BR10-A-01	3.44	4.01	0.71	5.76	0.79	5.15	0.01	0.01	5.57	4.93	0.73	0.83	442.20	442.39	442.69	442.81	0.04	4.00	10
BR10-A-02	3.71	4.01	0.76	5.78	0.82	5.38	0.01	0.01	4.73	4.73	1.00	1.00	442.30	442.34	442.65	442.68	0.02	4.03	10
BR10-A-06	0.60	0.73	0.35	4.15	0.40	3.59	0.01	0.01	4.14	3.07	0.35	0.50	465.57	466.20	465.84	466.24	0.15	3.98	10
BR10-A-07	0.94	4.16	0.22	9.61	0.46	3.63	0.01	0.07	7.55	2.68	0.26	0.67	446.04	447.23	446.93	447.28	0.11	2.34	10
BR10-A-08	0.33	0.73	0.24	3.61	0.31	2.62	0	0.01	3.61	1.82	0.24	0.43	440.91	441.54	441.12	441.56	0.04	1.30	10
BR10-A-09	0.99	1.57	0.38	4.75	0.47	3.74	0.01	0.01	2.83	2.83	0.67	0.67	466.09	466.26	466.22	466.37	0.12	4.54	10
BR3-A-01B	1.51	2.82	0.43	5.26	0.55	3.95	0	0.01	5.24	2.77	0.43	0.83	448.72	450.11	449.15	450.16	0.12	3.08	10
BR3-A-12A	1.17	1.36	0.48	4.37	0.51	4.07	0.01	0.01	4.37	3.78	0.48	0.55	443.98	444.24	444.28	444.50	0.04	3.31	10
BR3-A-12B	0.58	1.36	0.30	3.72	0.35	3.11	0	0.01	3.72	1.97	0.30	0.52	444.24	444.89	444.46	444.91	0.04	3.05	10
BR3-A-12C	0.60	0.89	0.30	4.88	0.40	3.61	0.01	0.01	4.87	3.08	0.30	0.50	443.57	444.76	443.94	444.80	0.15	3.11	10
BR3-A-12D	1.21	1.93	0.38	5.83	0.52	4.14	0.01	0.02	5.60	4.04	0.39	0.53	443.28	443.84	443.77	444.10	0.01	3.28	10
BR3-A-12E	1.63	2.22	0.42	6.95	0.59	4.98	0.01	0.02	5.86	4.72	0.50	0.64	443.25	443.52	443.78	443.91	0.05	3.36	10
BR6-B-22	2.15	3.07	0.41	9.50	0.64	6.27	0.02	0.04	7.64	6.16	0.50	0.67	442.13	442.65	443.03	443.26	0.05	2.31	10
BR6-B-23	2.39	3.07	0.44	9.71	0.65	6.91	0.02	0.04	7.93	6.84	0.54	0.67	441.86	442.31	442.84	443.05	0.04	2.32	10
BR6-B-24	2.56	3.07	0.47	9.83	0.65	7.39	0.02	0.04	9.79	7.34	0.47	0.67	436.35	442.01	437.85	442.86	0.03	2.33	10
BR10-A-05A	0.38	0.73	0.25	3.74	0.31	2.99	0.01	0.01	3.70	1.95	0.26	0.47	465.75	466.17	465.97	466.20	0.06	2.59	10
BR10-A-05B	0.61	3.85	0.18	8.07	0.37	3.09	0	0.06	7.05	2.02	0.20	0.54	463.37	464.54	464.15	464.57	0.05	2.59	10

RELEASED FOR CONSTRUCTION

By Beth Blair at 3:02 pm, Oct 22, 2013

Pegasus Link Constructors



ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
O	RFC	10/10/2013



Pegasus Link Constructors, LLC



AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
DRAINAGE HYDRAULIC DATA
LINK HYDRAULICS

FILE NAME:
042DA5705CLC
CONTROL:
ECP0DR6897
DESIGN PACKAGE:
RFC
SHEET:
04 OF 05

DESIGNED SP	FED. RD. DIST. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
DRAWN BZ	6	(SEE TITLE SHEET)		IH 30
CHECKED FG	STATE	DISTRICT	COUNTY	SHEET NO.
APPROVED SP	TEXAS	DAL	DALLAS	DA5705
	CONTROL	SECTION	JOB	
	1068	04	116	

10/10/2013 9:15:44 PM
\\pwc\cs\pwc\dwg\K\10198\19805_150_042da5705c1c.dgn

Link ID	
---------	--

Link ID	Link Discharge (CFS)	Link Capacity (CFS)	Link Uniform Depth (ft)	Link Uniform Velocity (ft/s)	Link Critical Depth (ft)	Link Critical Velocity (ft/s)	Link Slope (ft/ft)	Link Friction Slope (ft/ft)	Link Actual Velocity Downstream (ft/s)	Link Actual Velocity Upstream (ft/s)	Link Actual Depth Downstream (ft)	Link Actual Depth Upstream (ft)	HGL Link Upstream (ft)	HGL Link Downstream (ft)	EGL Link Upstream (ft)	EGL Link Downstream (ft)	Link Upstream Junction Loss (ft)	FN Node Cumulative Tc (min)	FN Node Tc Used (min)
BR2-A-OUT1	1.47	3.41	0.31	9.39	0.57	4.63	0.01	0.05	9.33	4.26	0.31	0.64	435.31	439.66	436.67	439.99	0.07	1.92	10
BR2-A-2	0.67	3.85	0.19	8.27	0.39	3.15	0	0.06	8.26	2.09	0.19	0.57	439.21	444.07	440.28	444.10	0.06	1.77	10

DRAINAGE LINK HYDRAULICS BRIDGE 35 FREQUENCY -10YEAR

Link ID	Link Discharge (CFS)	Link Capacity (CFS)	Link Uniform Depth (ft)	Link Uniform Velocity (ft/s)	Link Critical Depth (ft)	Link Critical Velocity (ft/s)	Link Critical Slope (ft/ft)	Link Friction Slope (ft/ft)	Link Actual Velocity Downstream (ft/s)	Link Actual Velocity Upstream (ft/s)	Link Actual Depth Downstream (ft)	Link Actual Depth Upstream (ft)	HGL Link Downstream (ft)	HGL Link Upstream (ft)	EGL Link Downstream (ft)	EGL Link Upstream (ft)	Link Upstream Junction Loss (ft)	FN Node Cumulative Tc (min)	FN Node Tc Used (min)
BR35-A-1	1.32	1.57	0.47	5.03	0.54	4.33	0.01	0.01	5.03	3.78	0.47	0.67	435.93	437.25	436.32	437.31	0.22	2.61	10
BR35-A-2	0.57	1.43	0.29	3.87	0.35	3.10	0.01	0.01	3.84	1.96	0.30	0.52	430.00	430.52	430.23	430.54	0.04	2.61	10

1

RELEASED FOR CONSTRUCTION

By Beth Blair at 9:09 am, Jul 31, 2014

Pegasus Link Constructors



P. Sri Lakshmi 7/15/2014



Texas Department of Transportation
© 2014

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
O	RFC	10/10/2013
1	NDC 00126	07/15/2014



Pegasus Link Constructors, LLC



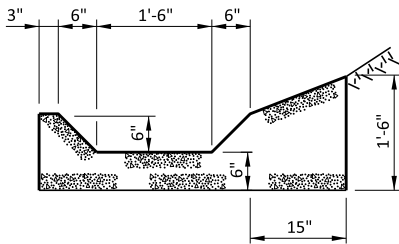
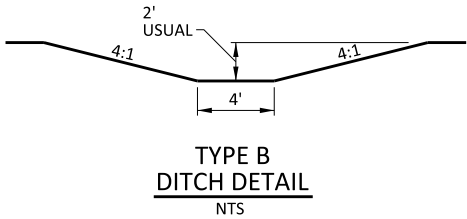
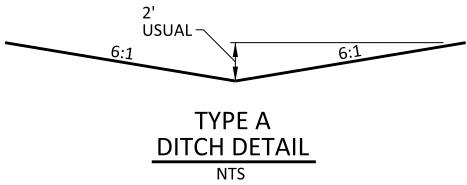
AECOM Technical Services, Inc.- F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT DRAINAGE HYDRAULIC DATA LINK HYDRAULICS

FILE NAME: 042DA5706CLC	DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
CONTROL: ECP0DR6897	DRAWN BZ	6	(SEE TITLE SHEET)	IH 30
DESIGN PACKAGE: RFC	CHECKED SV	STATE TEXAS	DISTRICT DAL	COUNTY DALLAS
SHEET: 05 OF 05	APPROVED SV	CONTROL 1068	SECTION 04	JOB 116
				DA5706

NAME	BASELINE	STA	OFFSET	LT\RT	FLOW LINE	NATURAL GROUND ELEV.	COMPUTED DEPTH	ALLOWABLE DEPTH	TYPE
D-D1	35NBML	5026+28.34	336.89	LT	411.10	-	-	-	A
D-D1	35NBML	5026+50.00	340.08	LT	411.31	411.95	0.48	0.64	A
D-D1	35NBML	5027+00.00	348.57	LT	412.18	413.19	-	1.01	A
D-D1	35NBML	5027+50.00	357.62	LT	409.86	410.94	0.38	1.08	A
D-D1	35NBML	5028+00.00	362.10	LT	409.34	410.42	0.68	1.08	A
D-D1	35NBML	5028+50.00	366.54	LT	408.57	409.65	0.47	1.08	A
D-D1	35NBML	5029+00.00	374.48	LT	407.63	408.75	0.46	1.12	A
D-D1	35NBML	5029+50.00	377.99	LT	406.89	407.97	0.64	1.08	A
D-D1	35NBML	5029+87.91	381.06	LT	406.31	407.5	0.67	1.19	A
D-D1A	COLORADO	13+50.00	48.48	LT	423.50	424.1	-	-	B
D-D1A	COLORADO	14+00.00	54.64	LT	419.71	421.49	0.25	1.78	B
D-D1A	COLORADO	14+50.00	62.55	LT	416.52	419.55	0.28	3.03	B
D-D1A	COLORADO	15+00.00	71.95	LT	414.45	418.29	0.32	3.84	B
D-D1A	COLORADO	15+50.00	83.99	LT	412.94	417.7	0.23	4.76	B
D-D1A	COLORADO	16+00.00	99.54	LT	411.60	417.8	0.27	6.20	B
D-D1A	COLORADO	16+50.00	120.91	LT	411.10	417.1	0.35	6.00	B
FLUME D-D2	35NBML	5024+69.50	199.66	LT	441.10	441.6	-	0.50	C
FLUME D-D2	35NBML	5024+50.00	196.21	LT	440.29	440.79	0.10	0.50	C
FLUME D-D2	35NBML	5024+00.00	186.11	LT	438.44	438.94	0.10	0.50	C
FLUME D-D2	35NBML	5023+50.00	175.29	LT	436.59	437.09	0.11	0.50	C
FLUME D-D2	35NBML	5023+00.00	163.78	LT	434.75	435.25	0.12	0.50	C
FLUME D-D2	35NBML	5022+59.85	152.16	LT	432.94	433.44	0.12	0.50	C
FLUME F-G2B	30MLCL	1111+91.42	115.53	LT	421.44	393.74	-	0.50	C
FLUME F-G2B	30MLCL	1112+00.00	117.01	LT	420.38	393.73	0.05	0.50	C
FLUME F-G2B	30MLCL	1112+50.00	123.68	LT	418.73	393.74	0.10	0.50	C
FLUME F-G2B	30MLCL	1113+00.00	129.10	LT	417.04	393.76	0.13	0.50	C
FLUME F-G2B	30MLCL	1113+50.00	130.54	LT	413.54	393.62	0.13	0.50	C
FLUME F-G2B	30MLCL	1114+00.00	134.84	LT	403.61	394.13	0.11	0.50	C
FLUME F-G2B	30MLCL	1114+36.90	132.52	LT	393.67	394.92	0.10	0.50	C
FLUME D-A-34	35NBML	5002+79.00	71.27	RT	483.08	483.58	-	0.50	C
FLUME D-A-34	35NBML	5002+50.00	68.89	RT	481.53	482.03	0.04	0.50	C
FLUME D-A-34	35NBML	5002+00.00	64.78	RT	478.49	478.99	0.06	0.50	C
FLUME D-A-34	35NBML	5001+50.00	60.16	RT	476.06	476.56	0.11	0.50	C
FLUME D-A-34	35NBML	5001+00.00	55.47	RT	474.60	475.10	0.16	0.50	C
FLUME D-A-34	35NBML	5000+50.00	49.00	RT	471.53	472.03	0.16	0.50	C
FLUME D-A-34	35NBML	5000+20.64	48.58	RT	470.00	470.50	0.18	0.50	C
FLUME D-A-26-A	35NBML	5002+79.00	71.27	RT	483.08	483.58	-	0.50	C
FLUME D-A-26-A	35NBML	5003+50.00	77.11	RT	481.93	482.43	0.05	0.50	C
FLUME D-A-26-A	35NBML	5004+00.00	81.22	RT	480.51	481.01	0.09	0.50	C
FLUME D-A-26-A	35NBML	5004+50.00	85.33	RT	479.06	479.56	0.12	0.50	C
FLUME D-A-26-A	35NBML	5005+00.00	88.44	RT	474.79	475.29	0.11	0.50	C
FLUME D-A-26-A	35NBML	5005+50.00	92.56	RT	474.40	474.90	0.25	0.50	C
FLUME D-A-26-A	35NBML	5006+00.00	96.67	RT	474.00	474.50	0.27	0.50	C
FLUME D-A-26-A	35NBML	5006+50.00	100.78	RT	473.50	474.00	0.27	0.50	C
FLUME D-A-14-A	35NBML	5017+50.00	64.97	RT	441.11	441.61	-	0.50	C
FLUME D-A-14-A	35NBML	5017+00.00	71.00	RT	441.65	442.15	0.05	0.50	C
FLUME D-A-14-A	35NBML	5016+50.00	78.83	RT	441.12	441.62	0.07	0.50	C
FLUME D-A-14-A	35NBML	5016+00.00	88.11	RT	439.43	439.93	0.10	0.50	C
FLUME D-A-14-A	35NBML	5015+50.00	98.50	RT	437.96	438.46	0.18	0.50	C
FLUME D-A-14-A	35NBML	5015+34.44	97.19	RT	437.93	438.43	0.19	0.50	C

TYPE
A-6:1 (V-DITCH)
B-4:1 (FLAT-BOTTOM)
C-Flume



RELEASED FOR CONSTRUCTION

By Beth Blair at 1:21 pm, May 12, 2014

Pegasus Link Constructors



P. Sri Lakshmi 4/21/2014

Texas Department of Transportation
© 2014

NO.	ISSUE RECORD DESCRIPTION	DATE
B	REVISED	07/05/2013
O	EARLY START	08/12/2013
OC	FINAL	09/09/2013
1	RFC	10/10/2013
2	NDC 00082	04/21/2014



Pegasus Link Constructors, LLC



AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
DRAINAGE HYDRAULIC DATA
DITCH TABLE

FILE NAME: 042DA6710CLC	DESIGNED SP	FED. RD. DIV. NO.	6	FEDERAL AID PROJECT NO.	1H 30
CONTROL: ECP0DR6807	DRAWN BZ	STATE	DISTRICT	COUNTY	SHEET NO.
DESIGN PACKAGE: RFC	CHECKED FG	TEXAS	DAL	DALLAS	DA6710
SHEET: 01 OF 01	APPROVED SP	CONTROL	SECTION	JOB	
		1068	04	116	

SINGLE BOX CULVERTS

<input checked="" type="checkbox"/>	SCC-MD	SINGLE BOX CULVERTS CAST-IN-PLACE MISCELLANEOUS DETAILS
	SCC-3 & 4 (2 SHEETS)	SINGLE BOX CULVERTS CAST-IN-PLACE 0' TO 30' FILL
	SCC-5 & 6 (2 SHEETS)	SINGLE BOX CULVERTS CAST-IN-PLACE 0' TO 30' FILL
	SCC-7 (2 SHEETS)	SINGLE BOX CULVERTS CAST-IN-PLACE 0' TO 30' FILL
	SCC-8 (2 SHEETS)	SINGLE BOX CULVERTS CAST-IN-PLACE 0' TO 30' FILL
<input checked="" type="checkbox"/>	SCC-9 (2 SHEETS)	SINGLE BOX CULVERTS CAST-IN-PLACE 0' TO 50' FILL
<input checked="" type="checkbox"/>	SCC-9(MOD) (2 SHEETS)	SINGLE BOX CULVERTS CAST-IN-PLACE 0' TO 30' FILL
<input checked="" type="checkbox"/>	SCC-10 (2 SHEETS)	SINGLE BOX CULVERTS CAST-IN-PLACE 0' TO 50' FILL
<input checked="" type="checkbox"/>	SCC-10(MOD) (2 SHEETS)	SINGLE BOX CULVERTS CAST-IN-PLACE 0' TO 30' FILL
<input checked="" type="checkbox"/>	SCP-MD	BOX CULVERTS PRECAST MISCELLANEOUS DETAILS
	SCP-3	SINGLE BOX CULVERTS PRECAST 3'-0" SPAN
	SCP-4	SINGLE BOX CULVERTS PRECAST 4'-0" SPAN
	SCP-5	SINGLE BOX CULVERTS PRECAST 5'-0" SPAN
	SCP-6	SINGLE BOX CULVERTS PRECAST 6'-0" SPAN
	SCP-7	SINGLE BOX CULVERTS PRECAST 7'-0" SPAN
	SCP-8	SINGLE BOX CULVERTS PRECAST 8'-0" SPAN
<input checked="" type="checkbox"/>	SCP-9	SINGLE BOX CULVERTS PRECAST 9'-0" SPAN
<input checked="" type="checkbox"/>	SCP-9 (MOD)	SINGLE BOX CULVERTS PRECAST 9'-0" SPAN
<input checked="" type="checkbox"/>	SCP-10	SINGLE BOX CULVERTS PRECAST 10'-0" SPAN
	SCP-11	SINGLE BOX CULVERTS PRECAST 11'-0" SPAN
	SCP-12	SINGLE BOX CULVERTS PRECAST 12--0" SPAN

MULTIPLE BOX CULVERTS

<input checked="" type="checkbox"/>	MC-MD	MULTIPLE BOX CULVERTS CAST-IN-PLACE MISCELLANEOUS DETAILS
<input checked="" type="checkbox"/>	MC-9-20 (2 SHEETS)	MULTIPLE BOX CULVERTS CAST-IN-PLACE 9'-0" SPAN 2' TO 20' FILL
<input checked="" type="checkbox"/>	MC-10-13 (2 SHEETS)	MULTIPLE BOX CULVERTS CAST-IN-PLACE 10'-0" SPAN 2' TO 13' FILL
<input checked="" type="checkbox"/>	MC-10-23 (2 SHEETS)	MULTIPLE BOX CULVERTS CAST-IN-PLACE 10'-0" SPAN 2' TO 23' FILL
<input checked="" type="checkbox"/>	MC-10-23(MOD) (2 SHEETS)	MULTIPLE BOX CULVERTS CAST-IN-PLACE 10'-0" SPAN 2' TO 41' FILL
<input checked="" type="checkbox"/>	ECD	EXTENDED CURB DETAIL (BOX CULVERTS W/CURBS OVER 1'-0" TO 5'-0" TALL)

CONCRETE HEADWALLS FOR PIPE CULVERTS

<input type="checkbox"/>	CH-FW-0	CONCRETE HEADWALLS WITH FLARED WINGS FOR 0° SKEW PIPE CULVERTS
<input type="checkbox"/>	CH-FW-15	CONCRETE HEADWALLS WITH FLARED WINGS FOR 15° SKEW PIPE CULVERTS
<input type="checkbox"/>	CH-FW-30	CONCRETE HEADWALLS WITH FLARED WINGS FOR 30° SKEW PIPE CULVERTS
<input type="checkbox"/>	CH-FW-45	CONCRETE HEADWALLS WITH FLARED WINGS FOR 45° SKEW PIPE CULVERTS
<input type="checkbox"/>	CH-PW-0	CONCRETE HEADWALLS WITH PARALLEL WINGS FOR NON-SKEWED PIPE CULVERTS
<input type="checkbox"/>	CH-PW-S	CONCRETE HEADWALLS WITH PARALLEL WINGS FOR SKEWED PIPE CULVERTS

WINGS FOR SINGLE & MULTI-BOX CULVERTS

<input checked="" type="checkbox"/>	SW-0	CONCRETE WINGWALLS W/STRAIGHT WINGS FOR 0° SKEW BOX CULVERTS
<input type="checkbox"/>	FW-0	CONCRETE WINGWALLS W/FLARED WINGS FOR 0° SKEW BOX CULVERTS
<input checked="" type="checkbox"/>	FW-S	CONCRETE WINGWALLS W/FLARED WINGS FOR SKEWED BOX CULVERTS
<input checked="" type="checkbox"/>	PW	CONCRETE WINGWALLS W/PARALLEL WINGS FOR SKEWED & NON-SKEWED BOX CULVERTS

DRAINAGE STANDARDS

<input type="checkbox"/>	SETB-CD (2 SHEETS)
<input type="checkbox"/>	SETB-PD (2 SHEETS)
<input type="checkbox"/>	SETB-SW-0 (3 SHEETS)
<input type="checkbox"/>	SETB-FW-0 (3 SHEETS)
<input type="checkbox"/>	SETB-FW-S (3 SHEETS)
<input type="checkbox"/>	SETBR

<input type="checkbox"/>	SETP-CD (2 SHEETS)
<input checked="" type="checkbox"/>	SETP-PD
<input type="checkbox"/>	SETP-FW-0 (3 SHEETS)
<input type="checkbox"/>	SETP-FW-15 (3 SHEETS)
<input type="checkbox"/>	SETP-FW-30 (3 SHEETS)
<input type="checkbox"/>	PSET-SC
<input type="checkbox"/>	PSET-SP
<input type="checkbox"/>	PSET-RC
<input type="checkbox"/>	PSET-RP
<input type="checkbox"/>	PSET-RR

<input type="checkbox"/>	IL-C
<input checked="" type="checkbox"/>	MH-M
<input checked="" type="checkbox"/>	BD-2 (2 SHEETS) (MOD)
<input type="checkbox"/>	BD-3 (2 SHEETS)
<input checked="" type="checkbox"/>	RW(R1) (2 SHEETS)
<input checked="" type="checkbox"/>	MH-M(MOD) (6 SHEETS)
<input checked="" type="checkbox"/>	JB-1-02 (FW)

<input checked="" type="checkbox"/>	CGI(TY 1)-08 (2 SHEETS)
<input checked="" type="checkbox"/>	CGI(TY 1)-08(MOD) (2 SHEETS)
<input type="checkbox"/>	CI(1)-02-BC(DAL)
<input type="checkbox"/>	CI(1)-02 (DAL)
<input type="checkbox"/>	CI(2)-02-BC(DAL) (2 SHEETS)
<input type="checkbox"/>	CI(2)-02 (DAL) (2 SHEETS)
<input checked="" type="checkbox"/>	CI(TY 1)-08 (2 SHEETS)
<input checked="" type="checkbox"/>	DRPINLCG
<input type="checkbox"/>	DRPINLD
<input checked="" type="checkbox"/>	RGI(TY 11)-08 (2 SHEETS)
<input checked="" type="checkbox"/>	RGI(TY 11)-08(MOD) (2 SHEETS)

<input type="checkbox"/>	RAC (2 SHEETS)
<input type="checkbox"/>	RAC-R (2 SHEETS)

<input checked="" type="checkbox"/>	CRR
-------------------------------------	-----

<input checked="" type="checkbox"/>	PS_DR01
<input checked="" type="checkbox"/>	PS_DR02
<input checked="" type="checkbox"/>	PS_DR03
<input checked="" type="checkbox"/>	PS_DR04
<input checked="" type="checkbox"/>	PS_DR05

SAFETY END TREATMENT FOR BOX CULVERTS

SAFETY END TREATMENT CROSS DRAINAGE MAX HW 7'
SAFETY END TREATMENT PARALLEL DRAINAGE MX HW 7'
SAFETY END TREATMENT STRAIGHT WINGS 0 DEG SKEW C/D
SAFETY END TREATMENT FLARED WINGS 0 DEG SKEW C/D
SAFETY END TREATMENT FLARED WINGS 15, 30 DEG SKEW C/D
RETROFIT DETAILS FOR EXISTING

SAFETY END TREATMENT FOR PIPE CULVERTS

SAFETY END TREATMENT FOR 12" DIA TO 60" DIA PIPE CULVERTS TYPE II ~ CROSS DRAINAGE
SAFETY END TREATMENT FOR 12" DIA TO 72" DIA PIPE CULVERTS TYPE II ~ PARALLEL DRAINAGE
SAFETY END TREATMENT W/FLARED WINGS FOR 0° SKEW PIPE CULVERTS TYPE I ~ CROSS DRAINAGE
SAFETY END TREATMENT W/FLARED WINGS FOR 15° SKEW PIPE CULVERTS TYPE I ~ CROSS DRAINAGE
SAFETY END TREATMENT W/FLARED WINGS FOR 30° SKEW PIPE CULVERTS TYPE I ~ CROSS DRAINAGE
PRECAST SAFETY END TREATMENT TYPE II ~ CROSS DRAINAGE
PRECAST SAFETY END TREATMENT TYPE II ~ PARALLEL DRAINAGE
PRECAST SAFETY END TREATMENT TYPE II ~ CROSS DRAINAGE
PRECAST SAFETY END TREATMENT TYPE II ~ PARALLEL DRAINAGE
PRECAST SAFETY END TREATMENT TYPE II ~ RIPRAP DETAILS

INLETS, MANHOLES, JUNCTIONS, AND SCUCCPERS

CURB INLET TYPE C & EXT TYPE E
MANHOLE TYPE M W/JUNCTION BOX
BRIDGE DRAIN DETAILS (WELDED)
BRIDGE DRAIN DETAILS (WELDED)
ROADWAY INLET FOR MSE RETAINING WALL TRAFFIC RAIL FOUNDATION
MANHOLE TYPE M W/JUNCTION BOX
JUNCTION BOX STRUCTURE TYPE 1

DALLAS DISTRICT INLETS, MANHOLES, JUNCTIONS

CURB AND GRATE INLET TYPE I
CURB AND GRATE INLET TYPE I
TYPE 1-C CURB INLET ON BOX CULVERT
TYPE 1 CURB INLET
TYPE 2-C CURB INLET ON BOX CULVERT
TYPE 2 CURB INLET
CURB INLET TYPE I
DROP INLET TYPE C & G DETAILS
DROP INLET TYPE D DETAILS
RAIL AND GRATE INLET TYPE II
RAIL AND GRATE INLET TYPE II

BRIDGE RAIL ANCHORAGE DETAILS

BOX CULVERT MOUNTING DETAILS
RETRO GUIDE FOR BC W/CURBS 2' & LESS

MISCELLANOUS DETAILS

CONCRETE RIPRAP & SHOULDER DRAIN EMBANKMENT (TYPE RR8 & RR9)

PROJECT STANDARD PLANS - DRAINAGE

DRAINAGE DETAIL - INLET CONTROL POINTS
DRAINAGE DETAIL - INLET JUNCTION BOX AT RETAINING WALL
DRAINAGE DETAIL - FLUME INLET
DRAINAGE STANDARD MISCELLANEOUS DETAILS
DRAINAGE DETAIL - CAP EXISTING INLET

NOTES:
ONLY THE STANDARD DRAWINGS CHECKED ON
THIS INDEX APPLY TO THIS SET OF DRAWINGS.
THE ENGINEER IDENTIFIED IS ONLY RESPONSIBLE
FOR NOTING WHICH STANDARDS ARE APPLICABLE
TO THE DESIGN.

* SHEETS PART OF SET. IF ONE
IS CHECKED ALL SHALL BE
CONSIDERED INCLUDED IN
THE SET FOR THAT STANDARD.

RELEASED FOR CONSTRUCTION

By Beth Blair at 1:21 pm, May 12, 2014

Pegasus Link Constructors



P. Sri Lakshmi 4/21/2014

Texas Department of Transportation
© 2014

ISSUE RECORD		
NO.	DESCRIPTION	DATE
A	INTERIM	05/01/2013
B	REVISED	07/05/2013
O	EARLY START	08/12/2013
OC	FINAL	09/09/2013
1	RFC	10/10/2013
2	NDC 00082	04/21/2014



Pegasus Link Constructors,LLC

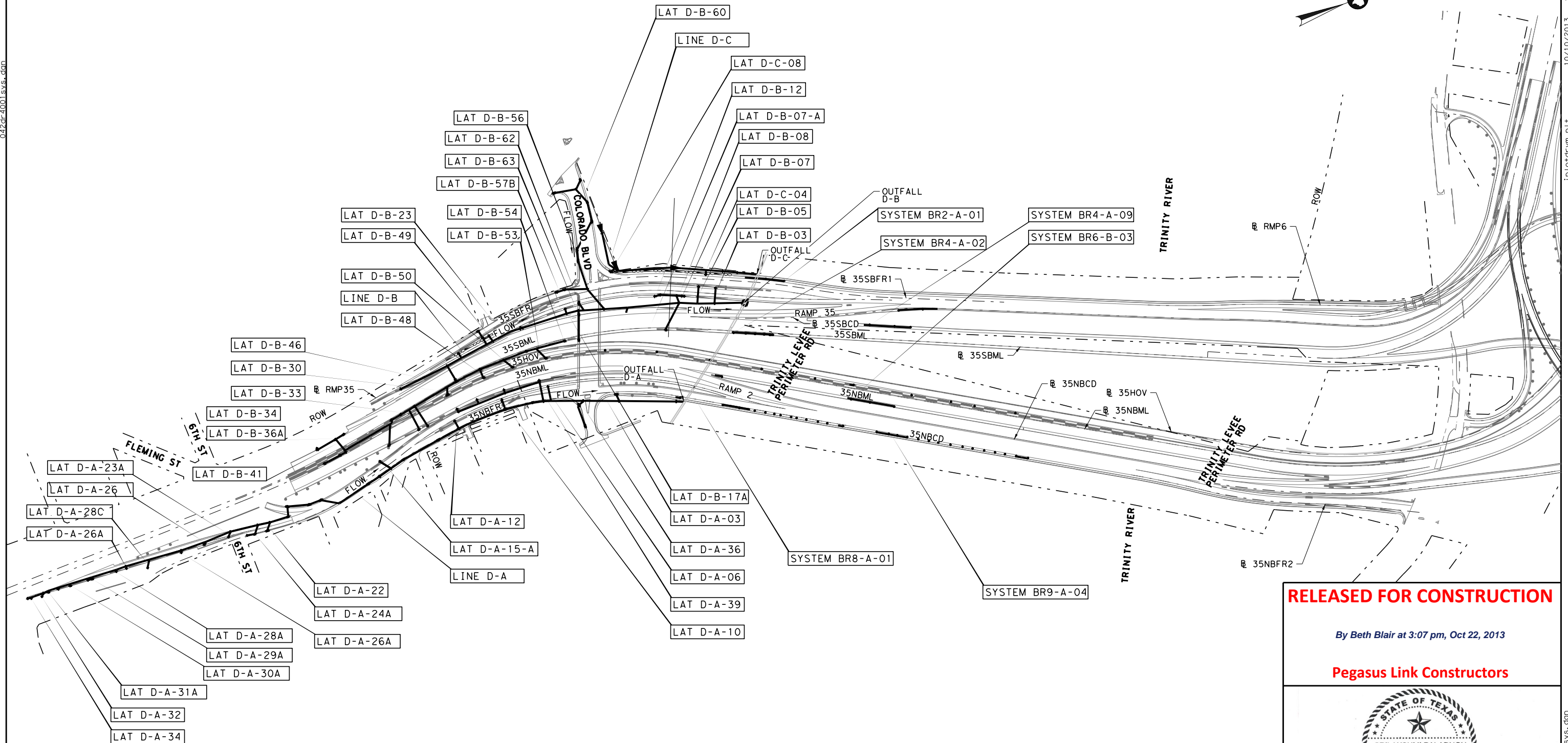


AECOM Technical Services, Inc.- F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
INDEX OF STANDARDS
DRAINAGE AREA 2

FILE NAME: 042DR4000INDX
CONTROL: ECP0DR6717
DESIGN PACKAGE: RFC
SHEET: 01 OF 01

DESIGNED SV	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.			HIGHWAY NO.
CONTROL: BZ	6	(SEE TITLE SHEET)			IH 30
DRAWN FG	STATE	DISTRICT	COUNTY	SHEET NO.	
CHECKED FG	TEXAS	DAL	DALLAS	DR4000	
APPROVED SV	CONTROL	SECTION	JOB		
	1068	04	116		



RELEASED FOR CONSTRUCTION

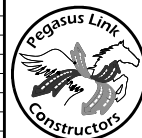
By Beth Blair at 3:07 pm, Oct 22, 2013

Pegasus Link Constructors



 *Texas Department of Transportation*
© 2013

ISSUE RECORD		
NO.	DESCRIPTION	DATE
A	INTERIM	05/01/2013
B	REVISED	07/05/2013
O	RFC EARLY START	08/12/2013
OC	FINAL	09/09/2013
1	RFC	10/10/2013



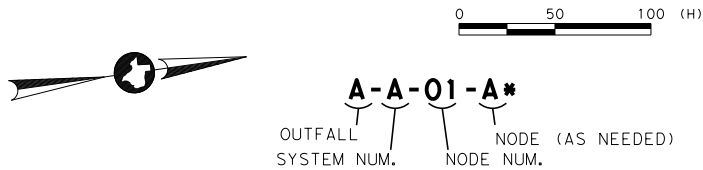
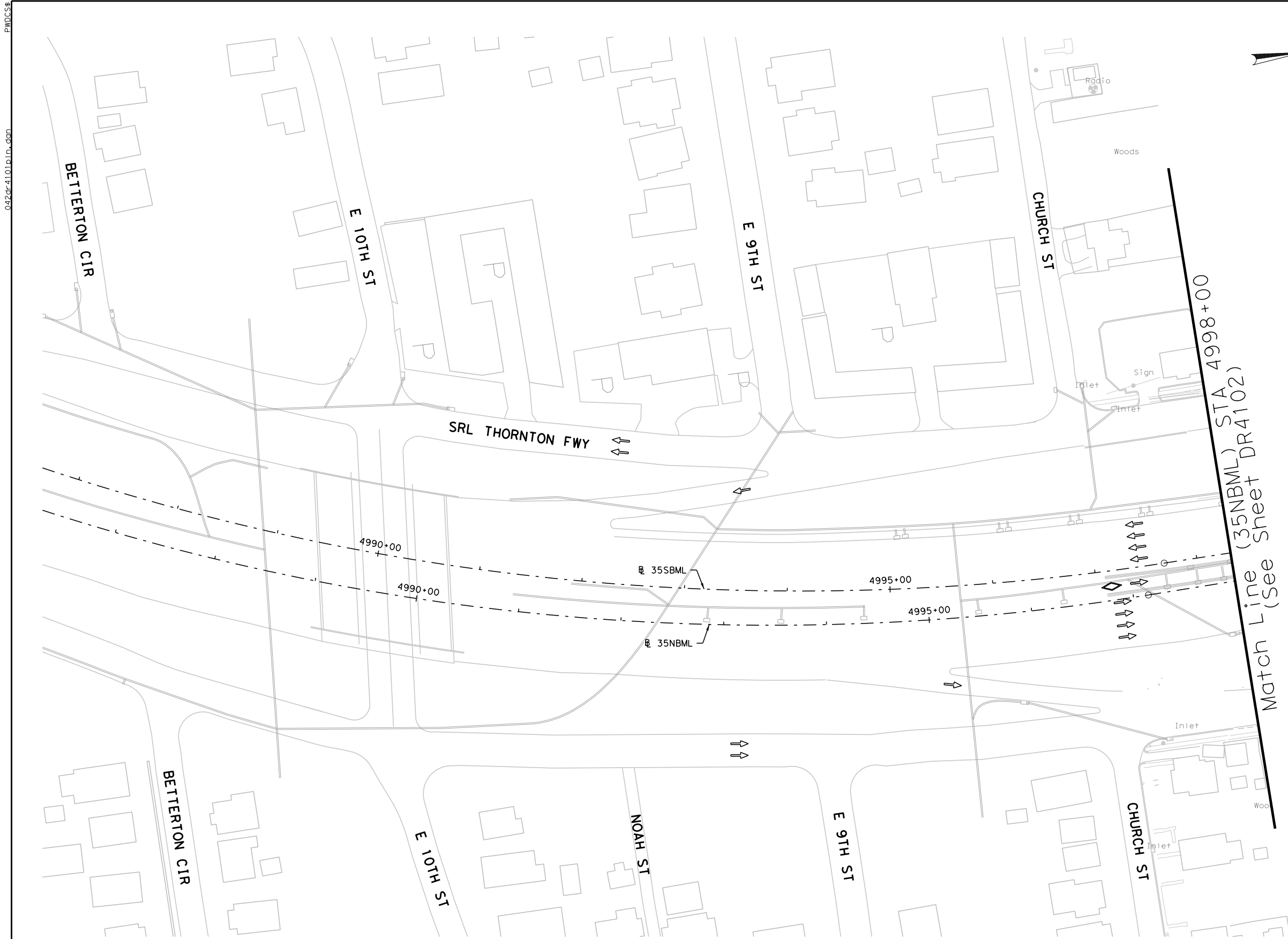
Pegasus Link Constructors, LLC



AECOM Technical Services, Inc.- F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
DRAINAGE SYSTEM
COLORADO TO LOUISIANA STORM SEWER SYSTEM
LAYOUT

FILE NAME: 042DR4001SYS	DESIGNED SP	FED. RD. DIST. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
CONTROL: ECP0DR6717	DRAWN BZ	6	(SEE TITLE SHEET)	
DESIGN PACKAGE: RFC	CHECKED FG	STATE	DISTRICT	COUNTY
SHEET: 01 OF 01	APPROVED SP	TEXAS	DAL	DALLAS
		CONTROL	SECTION	JOB
		1068	04	116
				DR4001



A-A-01-A*
OUTFALL SYSTEM NUM. NODE NUM. (AS NEEDED)

DRAINAGE PLAN LEGEND

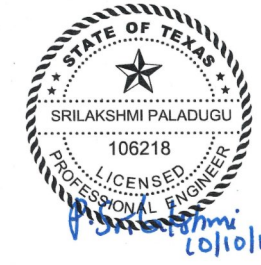
- PROPOSED STORM SEWER
- DRAINAGE DITCH
- RETAINING WALL
- TRAFFIC DIRECTION
- OVERHEAD SIGN
- I.T.S.
- DITCH BLOCK

- NOTES:**
1. DESIGN-BUILD CONTRACTOR SHALL COORDINATE WITH UTILITY AND TEMPORARY LIGHTING PLANS REGARDING REMOVAL, RELOCATION, OR ABANDONMENT OF UTILITIES, ELECTRIC LINES AND LIGHT POLES.
 2. DESIGN-BUILD CONTRACTOR SHALL PROVIDE 2' BLOCK SOD AROUND THE PERIMETER OF ALL DROP INLETS, GRATE INLETS AND MANHOLES IN NON PAVED AREAS.

RELEASED FOR CONSTRUCTION

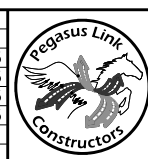
By Beth Blair at 3:07 pm, Oct 22, 2013

Pegasus Link Constructors



Texas Department of Transportation
© 2013

ISSUE RECORD		
NO.	DESCRIPTION	DATE
A	INTERIM	05/01/2013
B	REVISED	07/05/2013
C	FINAL	09/09/2013
O	RFC	10/10/2013



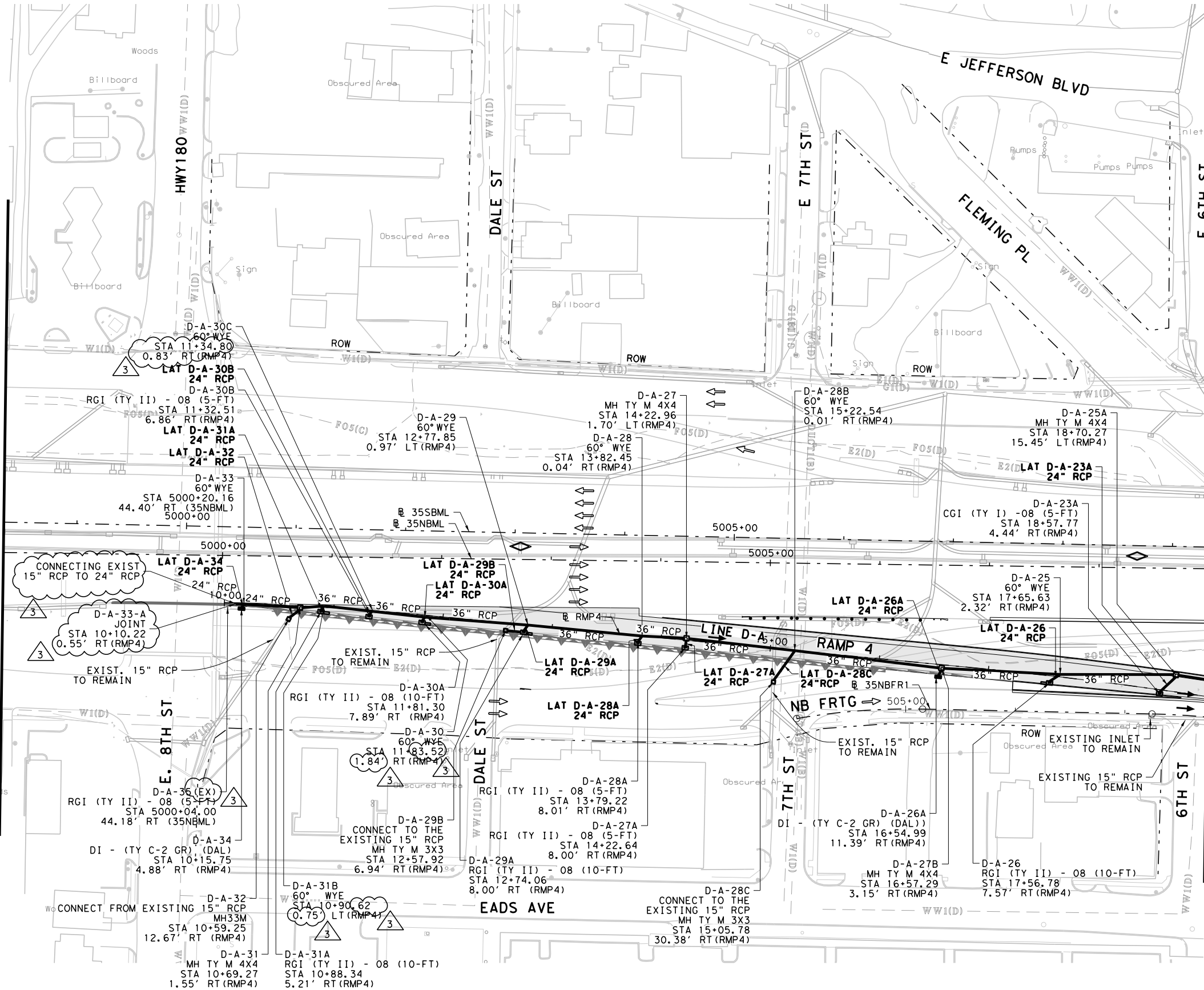
Pegasus Link Constructors, LLC

AECOM AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

**HORSESHOE PROJECT
DRAINAGE PLAN
(35NBML) BEGIN TO STA 4998+00**

FILE NAME: 042DR4101PLN	DESIGNED SP	FED. RD. DIV. NO.	6	FEDERAL AID PROJECT NO.	(SEE TITLE SHEET)	HIGHWAY NO.	1H 30
CONTROL: ECP0DR6717	DRAWN BZ	STATE	TEXAS	DISTRICT	DAL	COUNTY	DALLAS
DESIGN PACKAGE: RFC	CHECKED FG	SECTION	1068	JOB	04		
SHEET: 01 OF 05	APPROVED SP						DR4101

Match Line (35NBML) STA 4998+00
(Sheet Number DR4101)



Match Line (35NBML) STA 5009+00
(Sheet Number DR4103)

A-A-01-A*
OUTFALL SYSTEM NUM. NODE (AS NEEDED) NODE NUM.

DRAINAGE PLAN LEGEND

- PROPOSED STORM SEWER
- DRAINAGE DITCH
- RETAINING WALL
- TRAFFIC DIRECTION
- OVERHEAD SIGN
- I.T.S.
- DITCH BLOCK

- NOTES:
- DESIGN-BUILD CONTRACTOR SHALL COORDINATE WITH UTILITY AND TEMPORARY LIGHTING PLANS REGARDING REMOVAL, RELOCATION, OR ABANDONMENT OF UTILITIES, ELECTRIC LINES AND LIGHT POLES.
 - DESIGN-BUILD CONTRACTOR SHALL PROVIDE 2" BLOCK SOD AROUND THE PERIMETER OF ALL DROP INLETS, GRATE INLETS AND MANHOLES IN NON PAVED AREAS.

RELEASED FOR CONSTRUCTION

By Beth Blair at 11:02 am, Mar 26, 2014

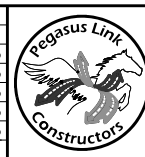
Pegasus Link Constructors



P. Sri Lakshmi 3/15/14

Texas Department of Transportation
© 2014

NO.	ISSUE RECORD DESCRIPTION	DATE
0	RFC EARLY START	08/12/2013
OC	FINAL	09/09/2013
1	RFC	10/10/2013
1	NDC 00009	10/10/2013
2	NDC 00049	12/20/2013
3	NDC 00064	03/04/2014



Pegasus Link Constructors, LLC

AECOM

AECOM Technical Services, Inc. F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

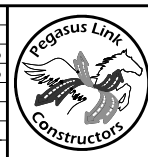
HORSESHOE PROJECT DRAINAGE PLAN (35NBML) STA 4998+00 TO STA 5009+00

FILE NAME:
042DR4102PLN
CONTROL:
ECP0DR6717
DESIGN PACKAGE:
RFC
SHEET:
02 OF 05

DESIGNED SP	FED. RD. DIST. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
6	(SEE TITLE SHEET)		IH 30
DRAWN	STATE	DISTRICT	COUNTY
BZ	TEXAS	DAL	DALLAS
CHECKED FG	SECTION	JOB	
	1068	04	116
APPROVED SP			DR4102

Match Line (35NBML) STA 5009+00
(Sheet Number DR4102)

NO.	ISSUE RECORD DESCRIPTION	DATE
3	NDC 00023	11/06/2013
4	NDC 00049	12/20/2013
5	NDC 00082	04/21/2014
6	NDC 00088	04/23/2014
7	NDC 00101	05/23/2014
8	NDC 00115	06/23/2014



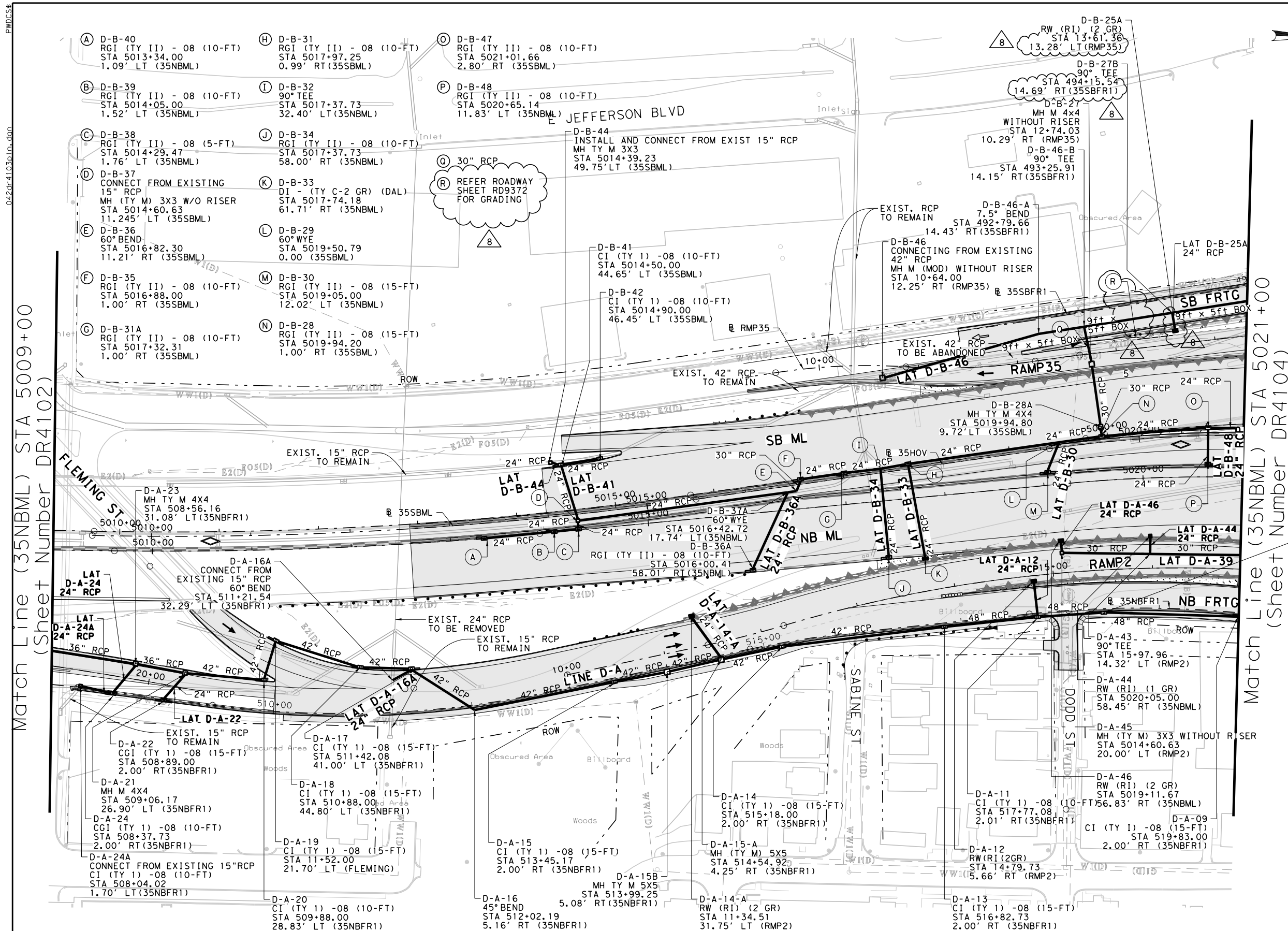
Pegasus Link Constructors, LLC

AECOM AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

**HORSESHOE PROJECT
DRAINAGE PLAN
(35NBML) STA 5009+00 TO STA 5021+00**

FILE NAME:
042DR4103PLN
CONTROL:
ECP0DR6717
DESIGN PACKAGE:
RFC
SHEET:
03 OF 05

DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
6	(SEE TITLE SHEET)		1H 30
DRAWN BZ	STATE	DISTRICT	COUNTY
FG	TEXAS	DAL	DALLAS
CHECKED FG	CONTROL	SECTION	JOB
SP	1068	04	116
			DR4103



RELEASED FOR CONSTRUCTION

By Beth Blair at 10:38 am, Jul 09, 2014

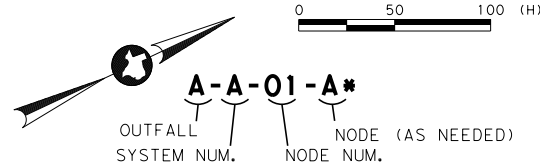
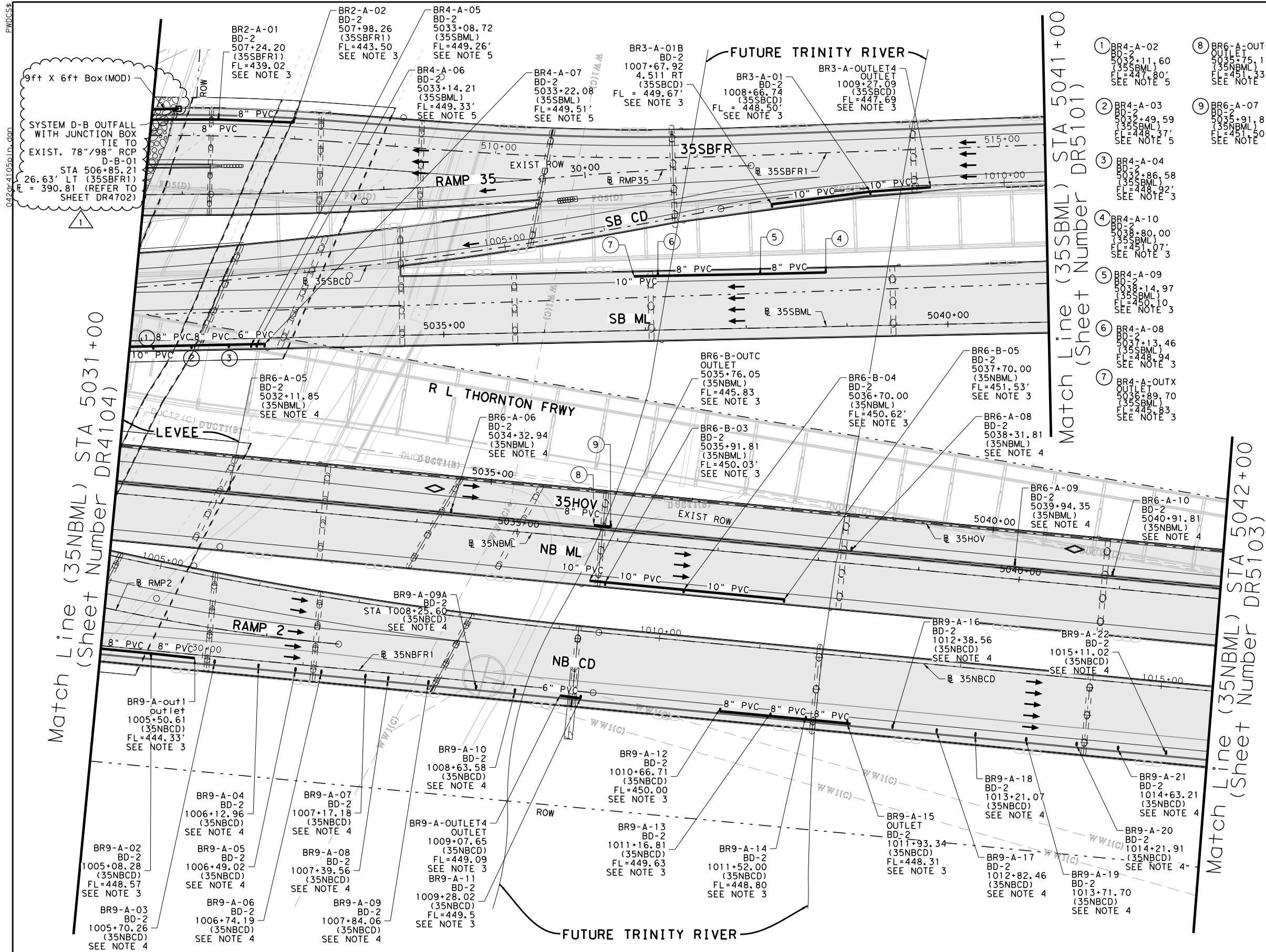
Pegasus Link Constructors



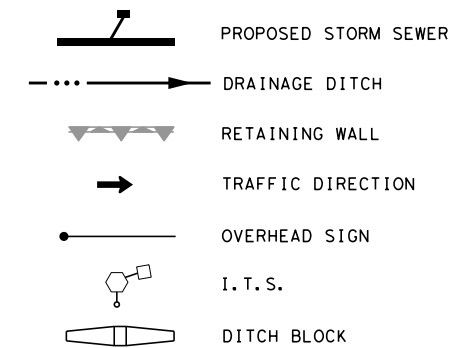
P. Srilakshmi 6/23/2014

Texas Department of Transportation
© 2014





DRAINAGE PLAN LEGEND



- NOTES:
1. DESIGN-BUILD CONTRACTOR SHALL COORDINATE WITH UTILITY AND TEMPORARY LIGHTING PLANS REGARDING REMOVAL, RELOCATION, OR ABANDONMENT OF UTILITIES, ELECTRIC LINES AND LIGHT POLES.
 2. DESIGN-BUILD CONTRACTOR SHALL PROVIDE 2" BLOCK SOD AROUND THE PERIMETER OF ALL DROP INLETS, GRATE INLETS AND MANHOLES IN NON PAVED AREAS.
 3. DECK DRAIN SYSTEM OPEN DRAINS TO GROUND.
 4. DECK DRAIN OPEN DRAINS TO GROUND.
 5. DECK DRAIN SYSTEM CONVEYS THROUGH COLUMN TO PROPOSED SYSTEM BELOW.

RELEASED FOR CONSTRUCTION

By Alyssa Moss at 12:24 pm, Sep 09, 2014

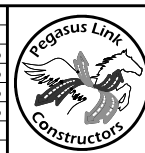
Pegasus Link Constructors



Vinnakota Suresh V 8/25/2014

Texas Department of Transportation
© 2014

NO.	DESCRIPTION	DATE
A	INTERIM	05/01/2013
B	REVISED	07/05/2013
C	REVISED	09/09/2013
D	RFC	10/10/2013
1	NDC 00142	08/25/2014



Pegasus Link Constructors, LLC



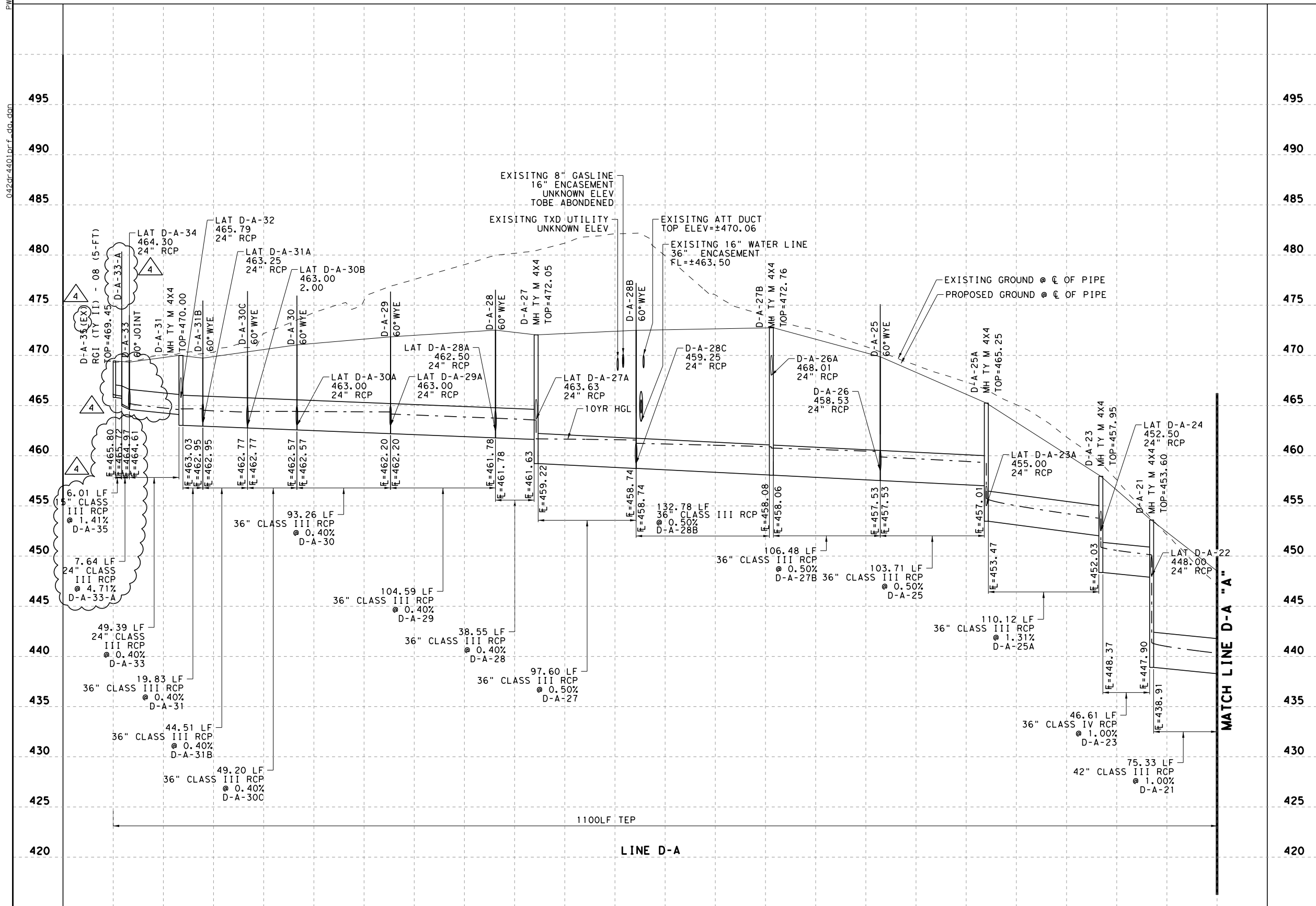
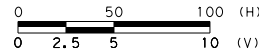
AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT DRAINAGE PLAN (35NBML) STA 5031+00 TO STA 5042+00

FILE NAME:
042DR4105PLN
CONTROL:
ECP0DR6717
DESIGN PACKAGE:
RFC
SHEET:
05 OF 05

DESIGNED	SP	FED. RD. DIST. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
6	(SEE TITLE SHEET)			1H 30
DRAWN	CONTROL	STATE	DISTRICT	COUNTY
BZ	TEXAS	DAL	DALLAS	
CHECKED	SV	SECTION	JOB	
1068	04	116		
APPROVED	SV			DR4105

PWD055
042dr-4401prf_da.dgn



RELEASED FOR CONSTRUCTION

By Beth Blair at 11:02 am, Mar 26, 2014

Pegasus Link Constructors



Srilakshmi 3/5/14

Texas Department of Transportation
© 2014

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
0	RFC EARLY START	08/12/2013
1	NDC 00009	10/10/2013
2	NDC 00023	11/06/2013
3	NDC 00049	12/20/2013
4	NDC 00064	03/04/2014



Pegasus Link Constructors, LLC



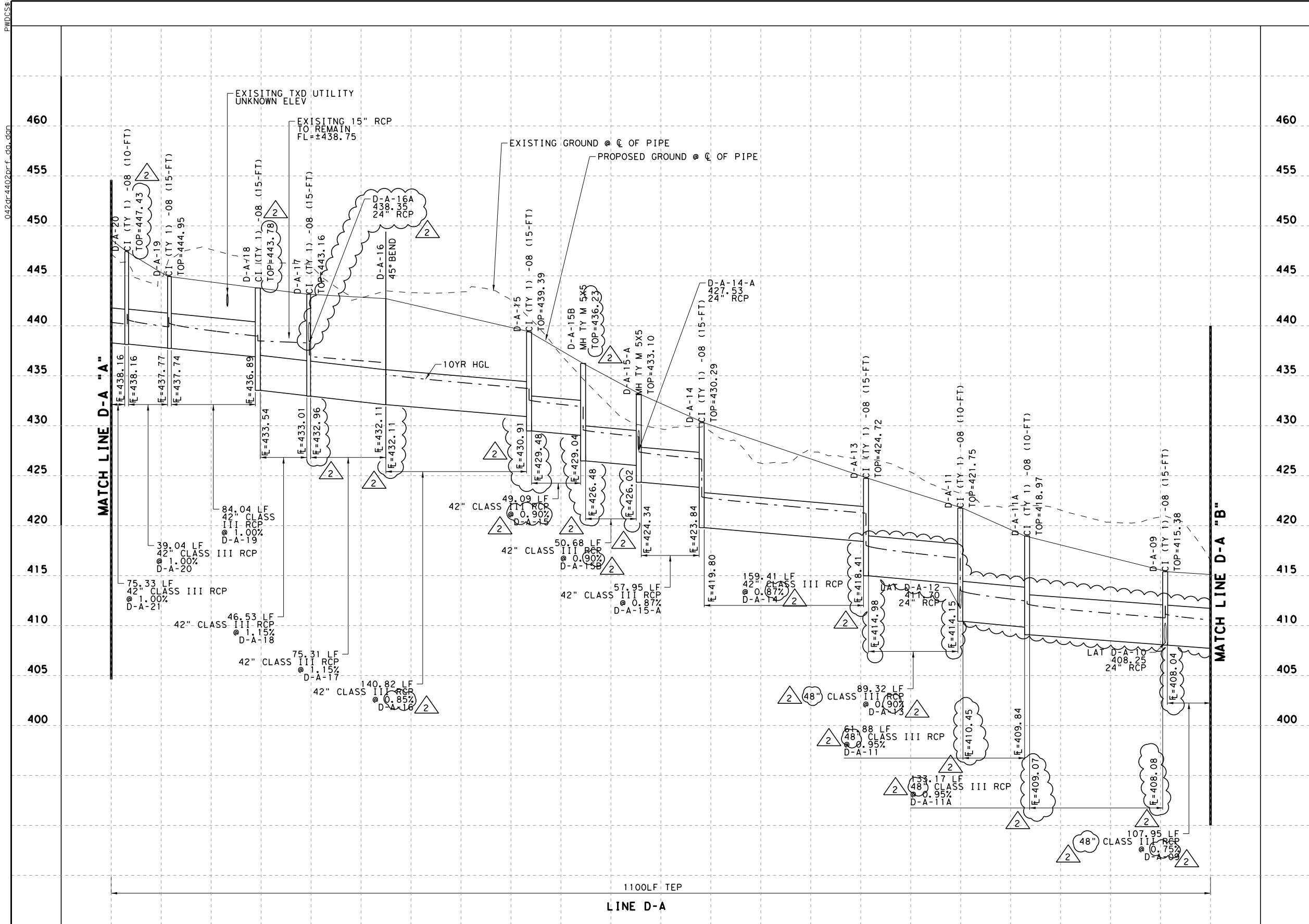
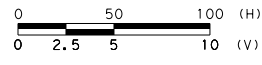
AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT DRAINAGE PROFILE SYSTEM D-A

FILE NAME:
042DR4401PRF_DA
CONTROL:
ECP0DR6717
DESIGN PACKAGE:
RFC
SHEET:
01 OF 03

DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.			HIGHWAY NO.
6	6	(SEE TITLE SHEET)			IH 30
DRAWN	STATE	DISTRICT	COUNTY	SHEET NO.	
BZ	TEXAS	DAL	DALLAS	DR4401	
CHECKED	SECTION	JOB			
FG	CONTROL				
APPROVED SP	1068	04	116		

PWDGSS
042dr-4402prf_da.dgn



RELEASED FOR CONSTRUCTION

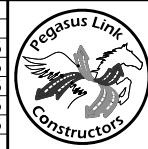
By Beth Blair at 11:35 am, Nov 26, 2013

Pegasus Link Constructors



Texas Department of Transportation
© 2013

ISSUE RECORD		
NO.	DESCRIPTION	DATE
A	INTERIM	05/01/2013
B	REVISED	07/05/2013
0	RFC EARLY START	08/12/2013
1	NDC 00009	10/10/2013
2	NDC 00023	11/06/2013



Pegasus Link Constructors, LLC
AECOM
AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

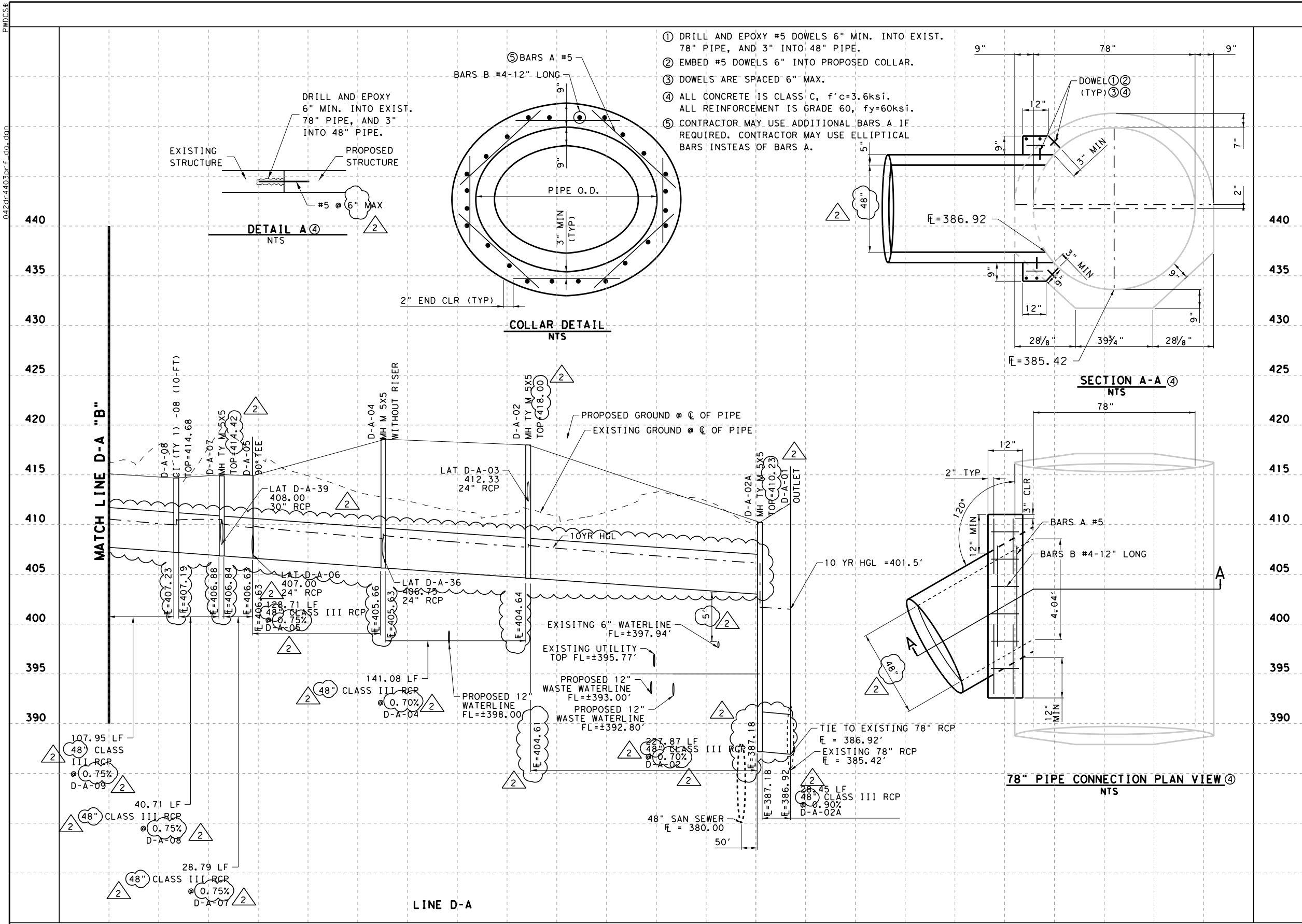
HORSESHOE PROJECT DRAINAGE PROFILE SYSTEM D-A

FILE NAME:
042DR4402PRF_DA
CONTROL:
ECP0DR6717
DESIGN PACKAGE:
RFC
SHEET:
02 OF 03

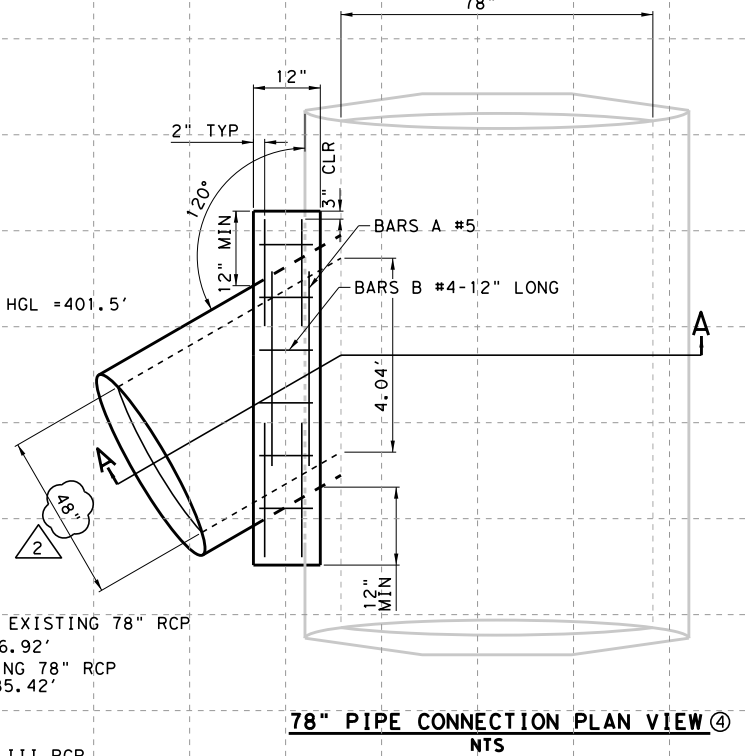
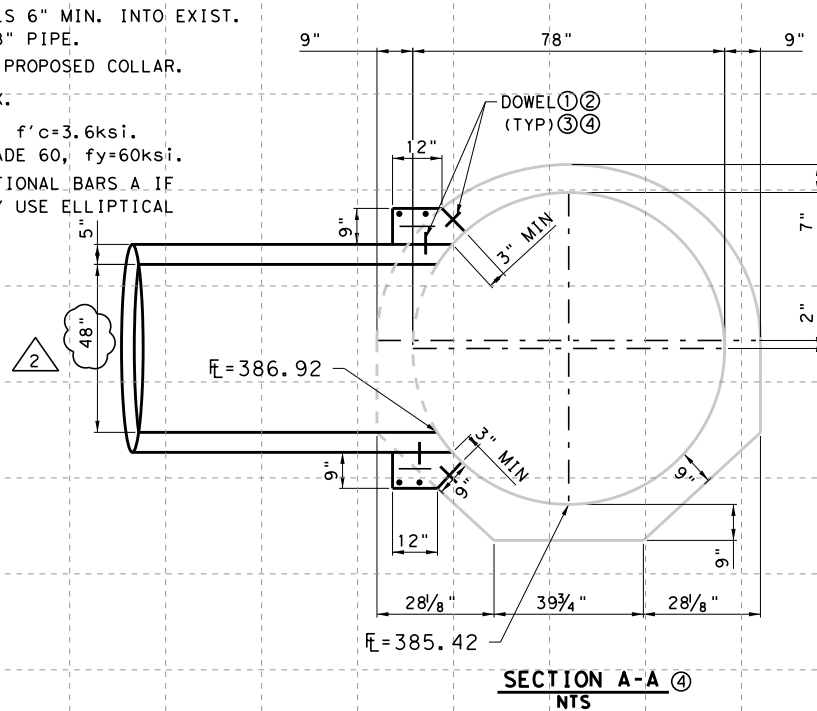
DESIGNED	SP	FED. RD. DIV. NO.	6	FEDERAL AID PROJECT NO.	(SEE TITLE SHEET)	HIGHWAY NO.	1H 30
DRAWN	BZ	STATE	DISTRICT	COUNTY		SHEET NO.	
CHECKED	FG	TEXAS	DAL	DALLAS			
APPROVED	SP	CONTROL	SECTION	JOB			
		1068	04	116			

DR4402

11/21/2013 10:12:07 PM
ip10t-dr-vn.plt



- ① DRILL AND EPOXY #5 DOWELS 6" MIN. INTO EXIST. 78" PIPE, AND 3" INTO 48" PIPE.
- ② EMBED #5 DOWELS 6" INTO PROPOSED COLLAR.
- ③ DOWELS ARE SPACED 6" MAX.
- ④ ALL CONCRETE IS CLASS C, $f'c=3.6ksi$. ALL REINFORCEMENT IS GRADE 60, $f_y=60ksi$.
- ⑤ CONTRACTOR MAY USE ADDITIONAL BARS A IF REQUIRED. CONTRACTOR MAY USE ELLIPTICAL BARS INSTEAD OF BARS A.



RELEASED FOR CONSTRUCTION

By Beth Blair at 11:35 am, Nov 26, 2013

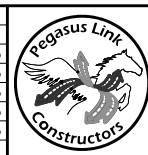
Pegasus Link Constructors

RESPONSIBLE FOR STRUCTURAL



Texas Department of Transportation
© 2013

NO.	ISSUE RECORD DESCRIPTION	DATE
A	INTERIM	05/01/2013
B	REVISED	07/05/2013
0	RFC EARLY START	08/12/2013
1	NDC 00009	10/10/2013
2	NDC 00023	11/06/2013



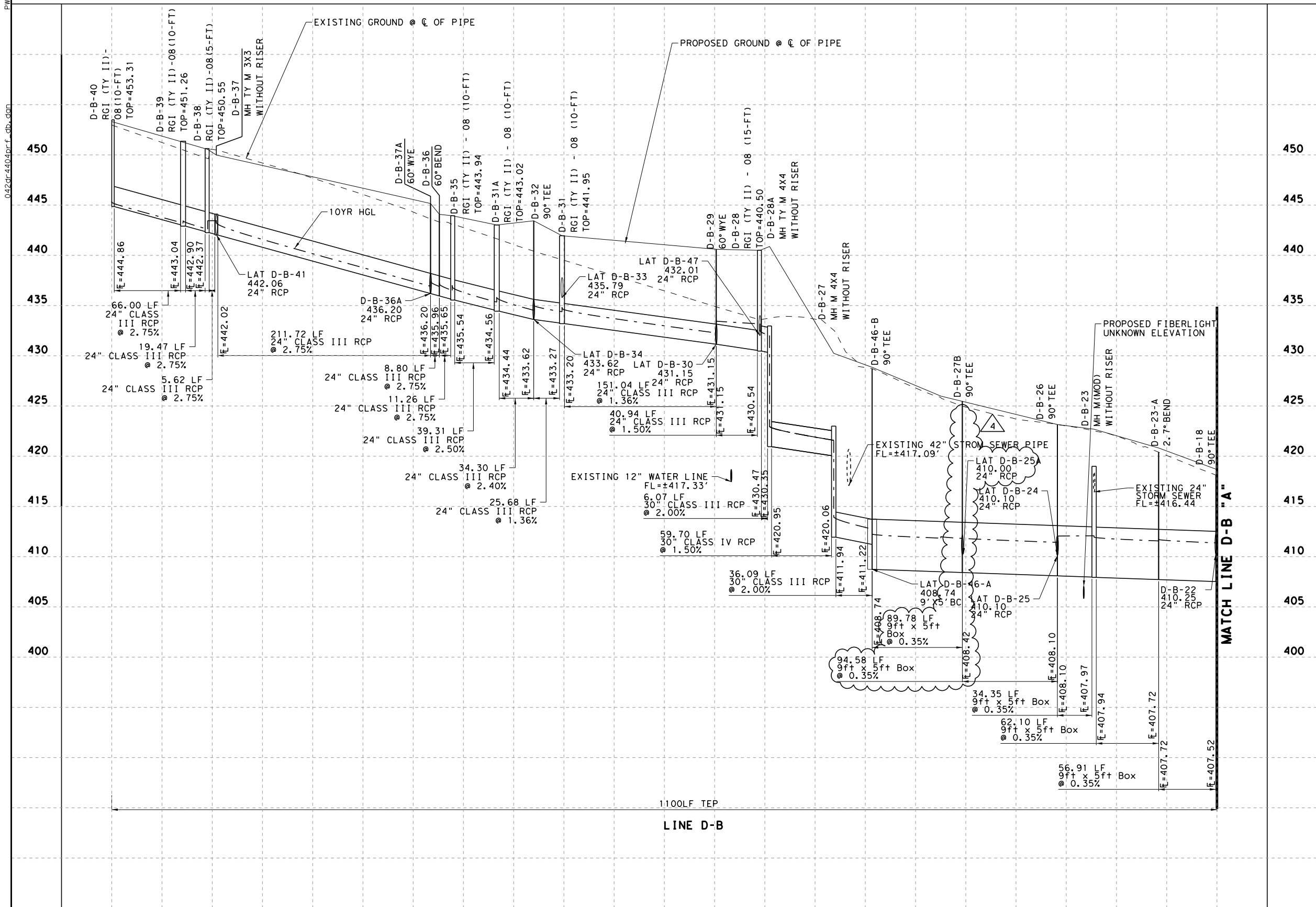
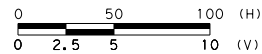
Pegasus Link Constructors, LLC
AECOM
AECOM Technical Services, Inc. F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT DRAINAGE PROFILE SYSTEM D-A

FILE NAME:
042DR4403PRF_DA
CONTROL:
ECP0DR6717
DESIGN PACKAGE:
RFC
SHEET:
03 OF 03

DESIGNED SP	FED. RD. DIST. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
BZ	6	(SEE TITLE SHEET)	IH 30
CHECKED FG	STATE	DISTRICT	COUNTY
CONTROL	TEXAS	DAL	DALLAS
APPROVED SP	SECTION	JOB	SHEET NO.
1068	04	116	DR4403

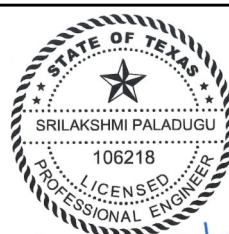
042dr-4404prf_db.dgn
PMDCS\$



RELEASED FOR CONSTRUCTION

By Beth Blair at 10:38 am, Jul 09, 2014

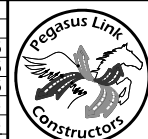
Pegasus Link Constructors



P. Srilakshmi 6/23/2014

Texas Department of Transportation
© 2014

ISSUE RECORD		
NO.	DESCRIPTION	DATE
C	FINAL	09/09/2013
0	RFC	10/10/2013
1	NDC 00023	11/06/2013
2	NDC 00082	04/21/2014
3	NDC 00101	05/23/2014
4	NDC 00115	06/23/2014



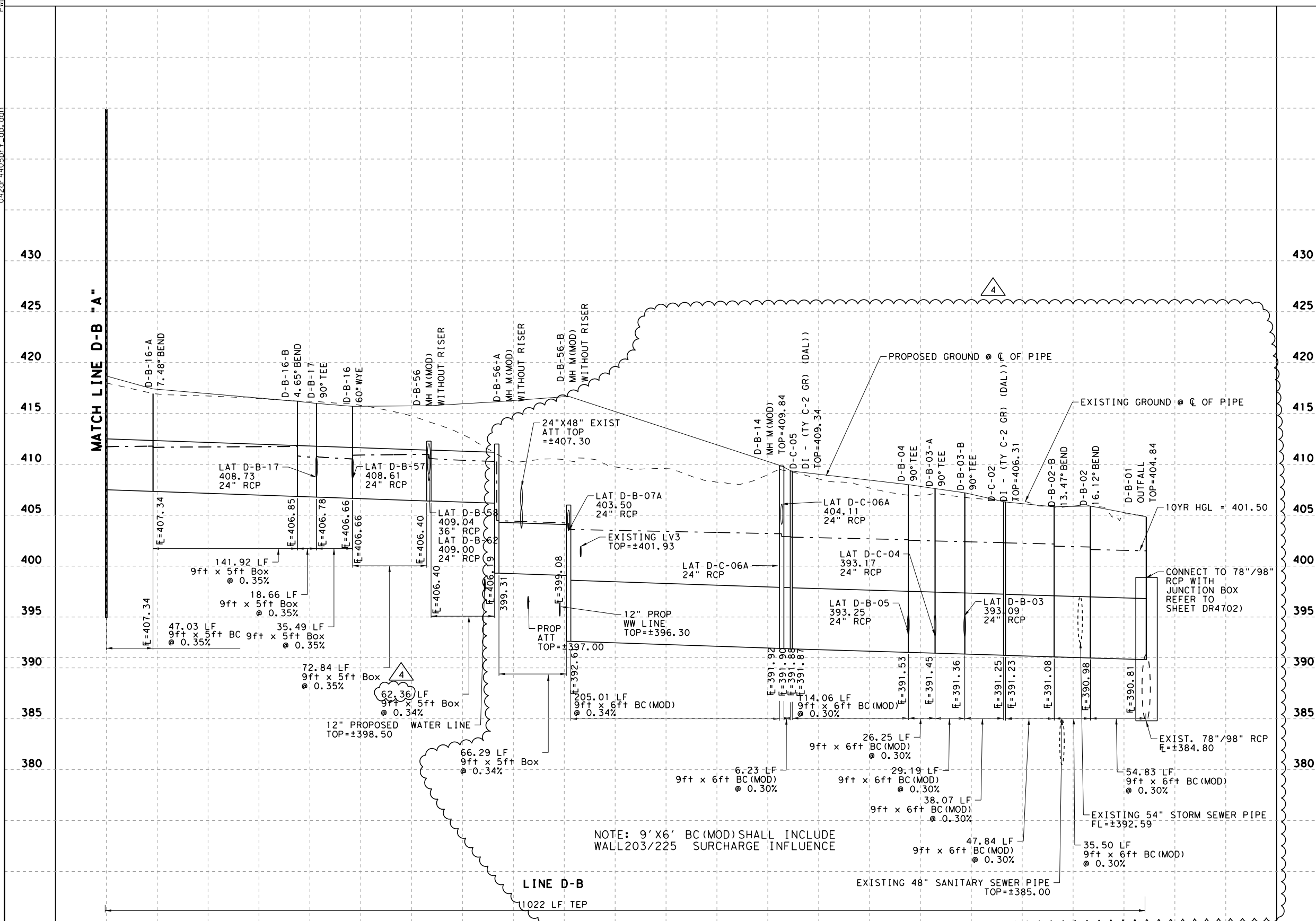
Pegasus Link Constructors, LLC
AECOM
AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT DRAINAGE PROFILE SYSTEM D-B

FILE NAME:
042DR4404PRF_DB
CONTROL:
ECP0DR6717
DESIGN PACKAGE:
RFC
SHEET:
01 OF 02

DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.			HIGHWAY NO.
CONTROL:	6	(SEE TITLE SHEET)			IH 30
DRAWN BZ	STATE	DISTRICT	COUNTY	SHEET NO.	
CHECKED FG	TEXAS	DAL	DALLAS	DR4404	
APPROVED SP	CONTROL	SECTION	JOB		
	1068	04	116		

6/19/2014 10:47:17 PM
ip1ot-dr-vn.plt
\\pmdcs\pmdcs\work\26231\19805_80\042dr-4404prf_db.dgn



RELEASED FOR CONSTRUCTION

By Alyssa Moss at 12:24 pm, Sep 09, 2014

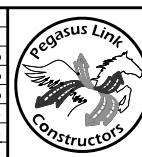
Pegasus Link Constructors



P. Srilakshmi 8/25/2014

 *Texas Department of Transportation*
© 2014

ISSUE RECORD		
NO.	DESCRIPTION	DATE
0	FINAL	09/09/2013
0	RFC	10/10/2013
1	NDC 00023	11/06/2013
2	NDC 00082	04/21/2014
3	NDC 00101	05/23/2014
4	NDC 00142	08/25/2014



Pegasus Link Constructors,LLC



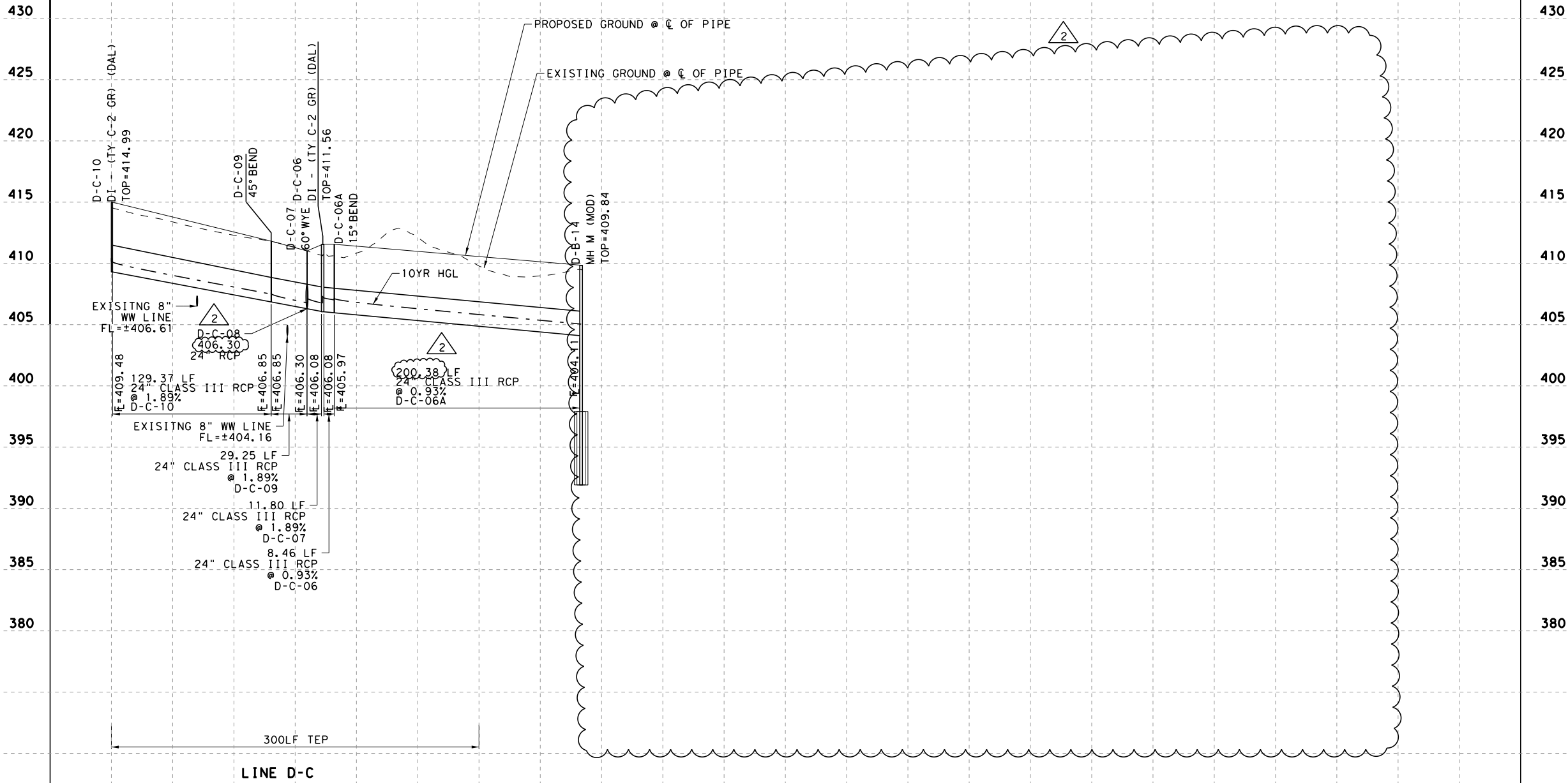
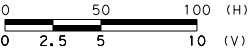
AECOM Technical Services, Inc.- F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT DRAINAGE PROFILE SYSTEM D-B

FILE NAME:	042DR4405PRF_DE
CONTROL:	ECP0DR6717
DESIGN PACKAGE:	RFC
SHEET:	02 OF 02

DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
DRAWN BZ	6	(SEE TITLE SHEET)		IH 30
CHECKED SV	STATE	DISTRICT	COUNTY	SHEET NO.
APPROVED SV	TEXAS	DAL	DALLAS	DR4405
	CONTROL	SECTION	JOB	
	1068	04	116	

042dr-4406prf_dc.dgn
P:\DWGCS\



RELEASED FOR CONSTRUCTION

By Alyssa Moss at 12:24 pm, Sep 09, 2014

Pegasus Link Constructors



P. Srilakshmi 8/25/2014

Texas Department of Transportation
© 2014

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
O	RFC	10/10/2013
1	NDC 00101	05/23/2014
2	NDC 00142	08/25/2014



Pegasus Link Constructors, LLC

AECOM

AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

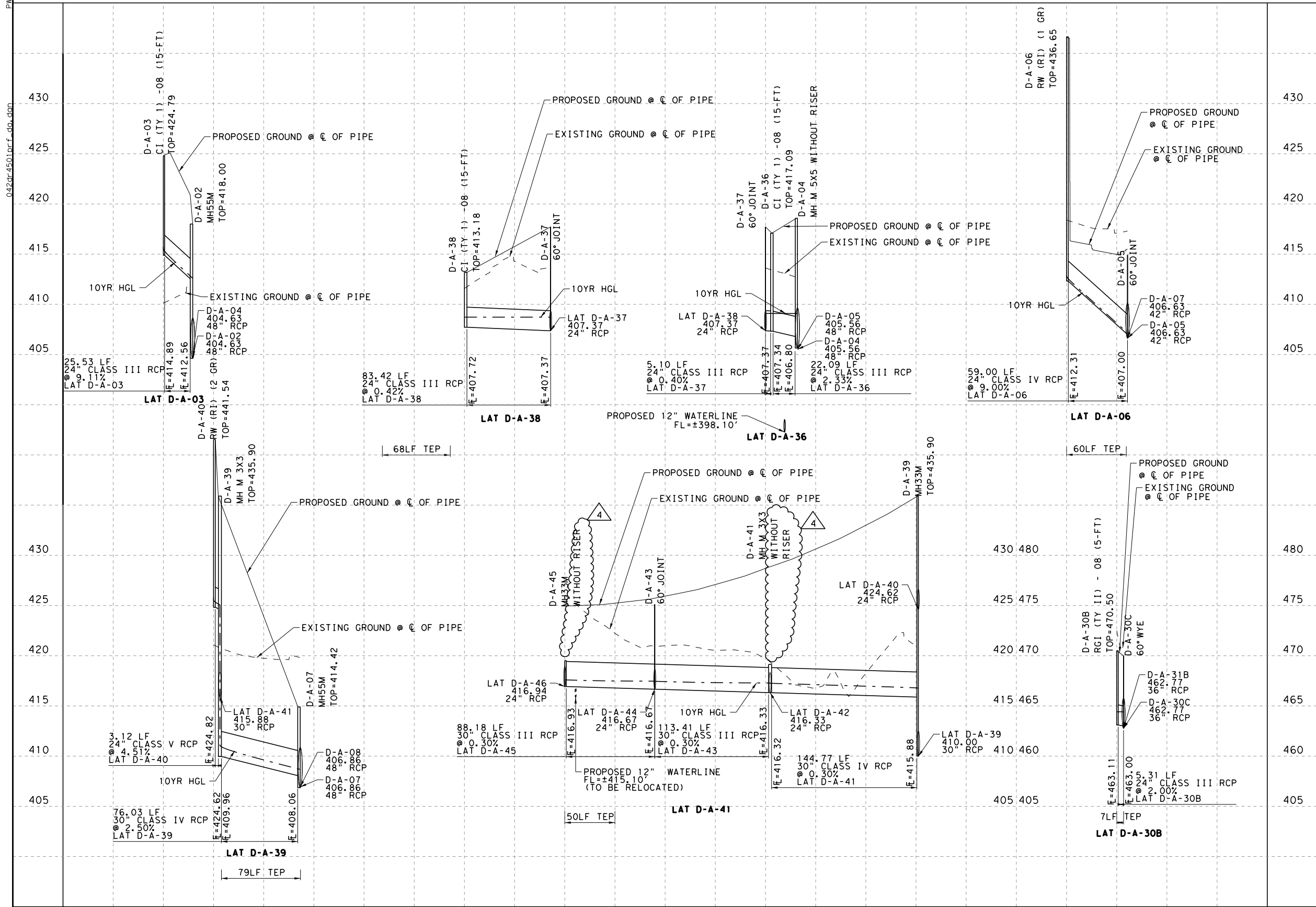
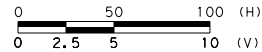
**HORSESHOE PROJECT
DRAINAGE PROFILE
SYSTEM D-C**

FILE NAME:
042DR4406PRF_DC
CONTROL:
ECP0DR6717
DESIGN PACKAGE:
RFC
SHEET:
01 OF 01

DESIGNED	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
SP	6	(SEE TITLE SHEET)		IH 30
DRAWN	STATE	DISTRICT	COUNTY	SHEET NO.
BZ	TEXAS	DAL	DALLAS	DR4406
CHECKED	CONTROL	SECTION	JOB	
SV	1068	04	116	

8/18/2014 8:47:32 PM
ip1otdr-vn.plt
\\p\dwgcs\p\dwgcs\w\K\29636\19805_113\042dr-4406prf_dc.dgn

PWDGSS
042dr4501prf_da.dgn



RELEASED FOR CONSTRUCTION

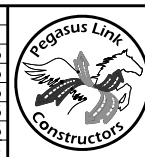
By Beth Blair at 1:21 pm, May 12, 2014

Pegasus Link Constructors



Texas Department of Transportation
© 2014

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
0	RFC EARLY START	08/12/2013
1	NDC 00009	10/10/2013
2	NDC 00023	11/06/2013
3	NDC 00049	12/20/2013
4	NDC 00082	04/21/2014



Pegasus Link Constructors, LLC

AECOM

AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

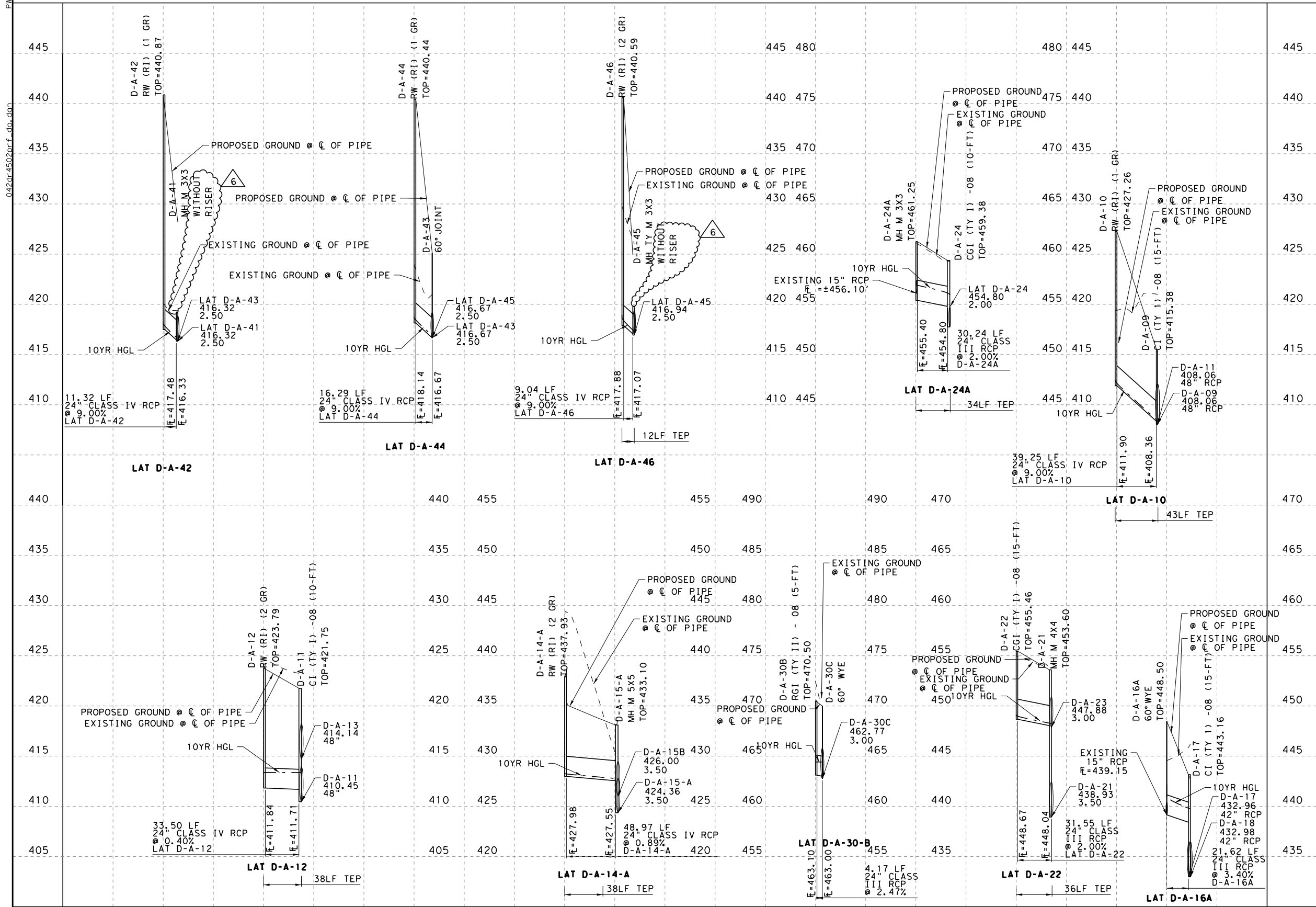
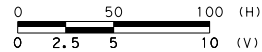
HORSESHOE PROJECT DRAINAGE PROFILE SYSTEM D-A LATERALS

FILE NAME:
042DR4501PRF_DA
CONTROL:
ECP0DR6717
DESIGN PACKAGE:
RFC
SHEET:
01 OF 03

DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.			HIGHWAY NO.
6	6	(SEE TITLE SHEET)			IH 30
DRAWN	STATE	DISTRICT	COUNTY	SHEET NO.	
BZ	TEXAS	DAL	DALLAS	DR4501	
CHECKED	SECTION	JOB			
FG	CONTROL				
APPROVED SP	1068	04	116		

4/17/2014 12:08:40 AM
ip1otdrvm.plt
\\pwc\ss\pwc\swrk\21302\19805_82\042dr4501prf_da.dgn

PWDGSS
042dr-4502prf-da.dgn



RELEASED FOR CONSTRUCTION

By Beth Blair at 1:21 pm, May 12, 2014

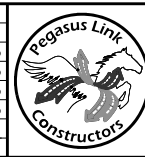
Pegasus Link Constructors



P. Srilakshmi 4/21/2014

Texas Department of Transportation
© 2014

ISSUE RECORD		
NO.	DESCRIPTION	DATE
1	NDC 0002	08/30/2013
2	NDC 00009	10/10/2013
3	NDC 00023	11/06/2013
4	NDC 00049	12/20/2013
5	NDC 00064	03/04/2014
6	NDC 00082	04/21/2014



Pegasus Link Constructors, LLC

AECOM

AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT DRAINAGE PROFILE SYSTEM D-A LATERALS

FILE NAME:
042DR4502PRF_DA
CONTROL:
ECP0DR6717
DESIGN PACKAGE:
RFC
SHEET:
02 OF 03

DESIGNED	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
DRAWN	6	(SEE TITLE SHEET)		IH 30
BZ	STATE	DISTRICT	COUNTY	SHEET NO.
CHECKED	TEXAS	DAL	DALLAS	DR4502
FG	CONTROL	SECTION	JOB	
APPROVED	SP	1068	04 116	

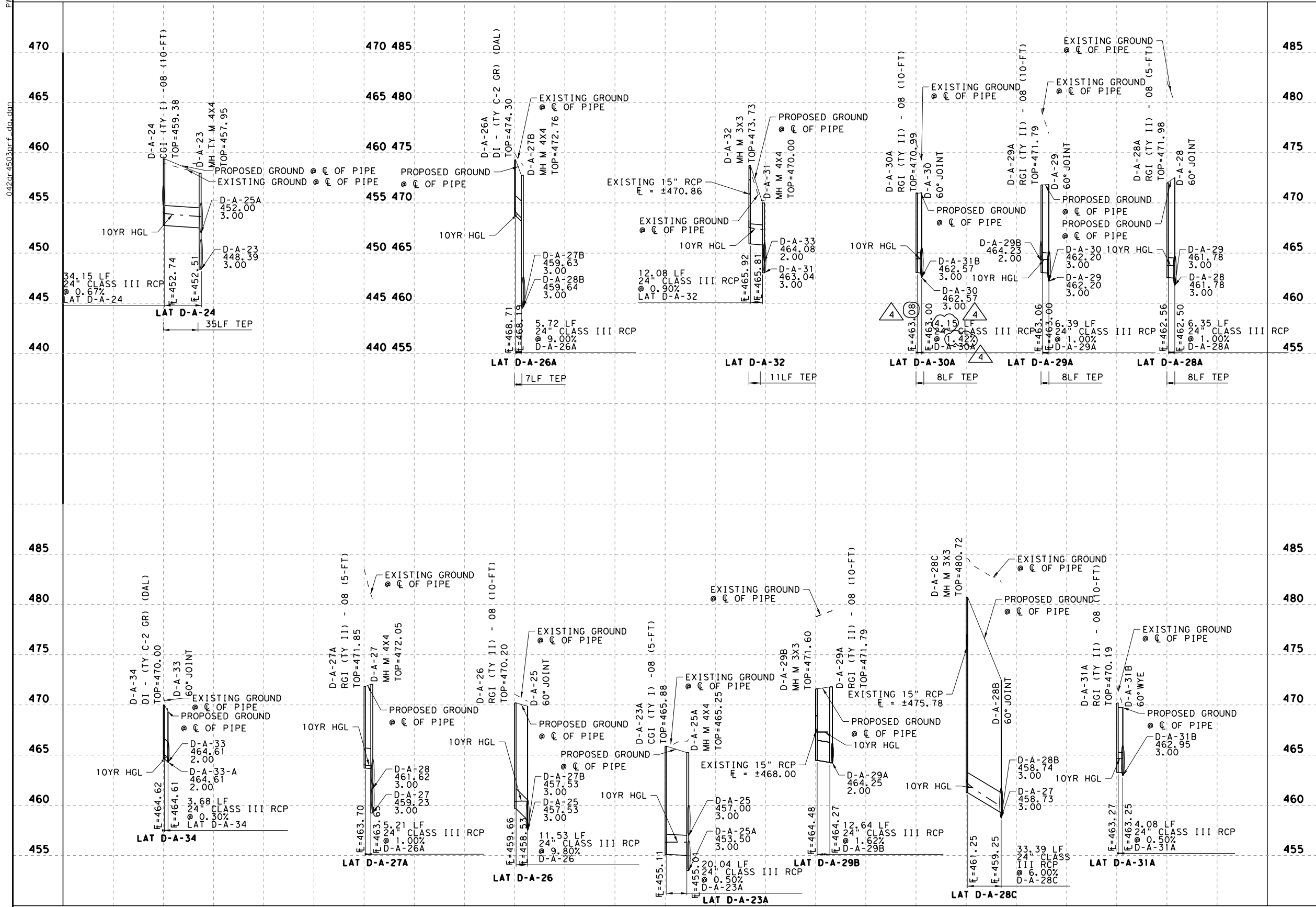
4/17/2014 12:08:24 AM

ip lot-dr-vn.plt

\\pwcgs\pwcgsr\k\21302\19805_102\042dr-4502prf-da.dgn

042dr-4503prf-da.dgn

PWDGSS



RELEASED FOR CONSTRUCTION

By Beth Blair at 2:28 pm, May 21, 2014

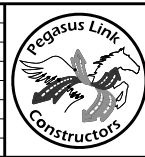
Pegasus Link Constructors



P. Sri Lakshmi 5/7/2014

Texas Department of Transportation
© 2014

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
0	RFC EARLY START	08/12/2013
1	NDC 00009	10/10/2013
2	NDC 00023	11/06/2013
3	NDC 00064	03/04/2014
4	NDC 00096	05/07/2014



Pegasus Link Constructors, LLC

AECOM AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT DRAINAGE PROFILE SYSTEM D-A LATERALS

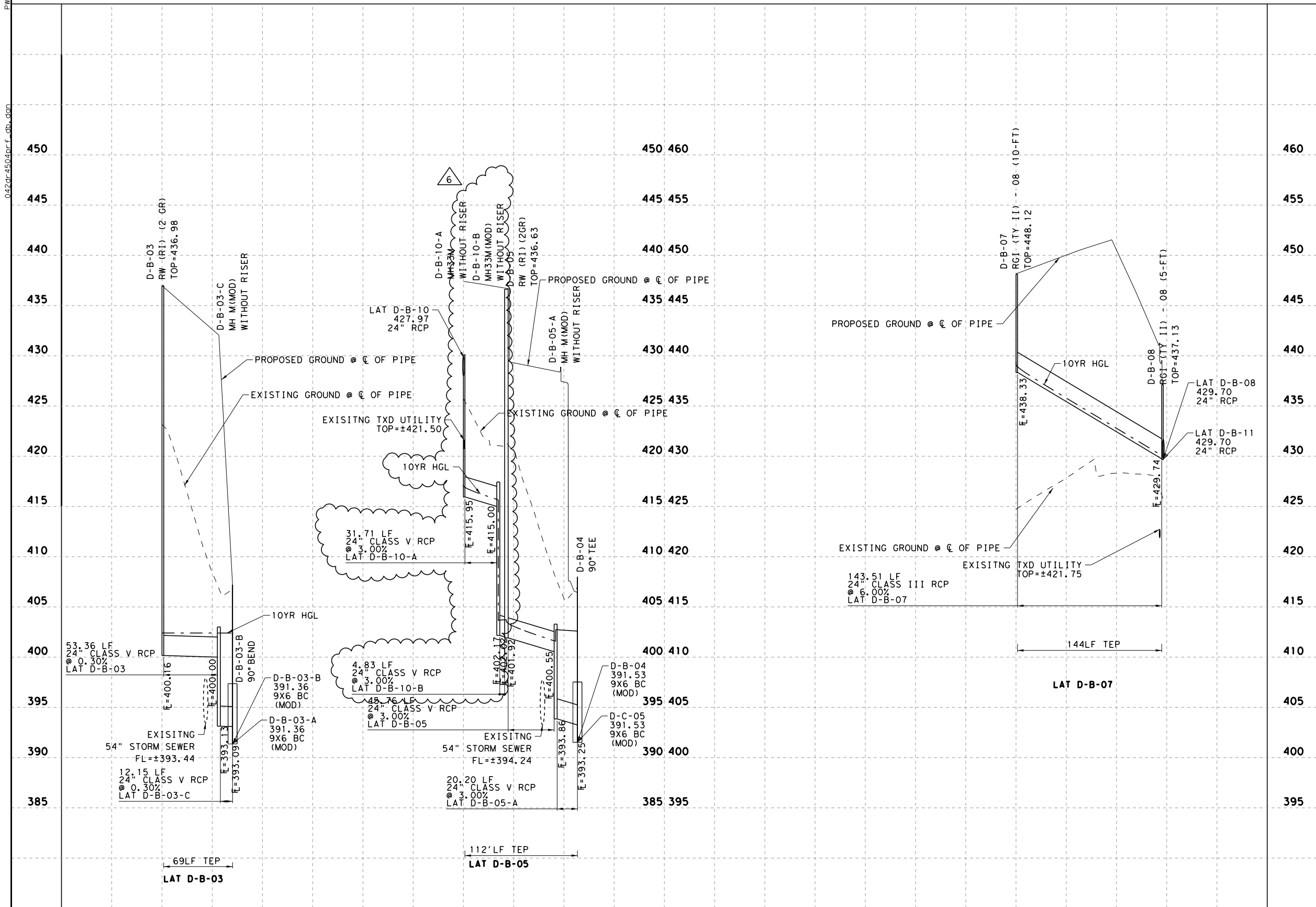
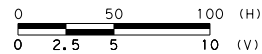
FILE NAME:
042DR4503PRF_DA
CONTROL:
ECP0DR6717
DESIGN PACKAGE:
RFC
SHEET:
03 OF 03

DESIGNED	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
SP	6	(SEE TITLE SHEET)		IH 30
DRAWN	STATE	DISTRICT	COUNTY	SHEET NO.
BZ	TEXAS	DAL	DALLAS	DR4503
CHECKED	CONTROL	SECTION	JOB	
FG	1068	04	116	
APPROVED	SP			

5/6/2014 10:42:24 PM

\\pdcsw\pdcswrk\23168\19805_103\042dr-4503prf-da.dgn

PWD055
042dr4504prf_db.dgn



RELEASED FOR CONSTRUCTION

By Amanda Lee at 10:22 am, Apr 17, 2015

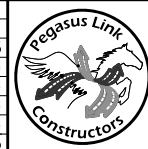
Pegasus Link Constructors



P. Sri Lakshmi 4/8/2015

Texas Department of Transportation
© 2015

ISSUE RECORD		
NO.	DESCRIPTION	DATE
1	NDC 00023	11/06/2013
2	NDC 00082	04/21/2014
3	NDC 00101	05/23/2014
4	NDC 00130	07/24/2014
5	NDC 00142	08/25/2014
6	NDC 00172	04/08/2015



Pegasus Link Constructors, LLC

AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
DRAINAGE PROFILE
SYSTEM D-B LATERALS

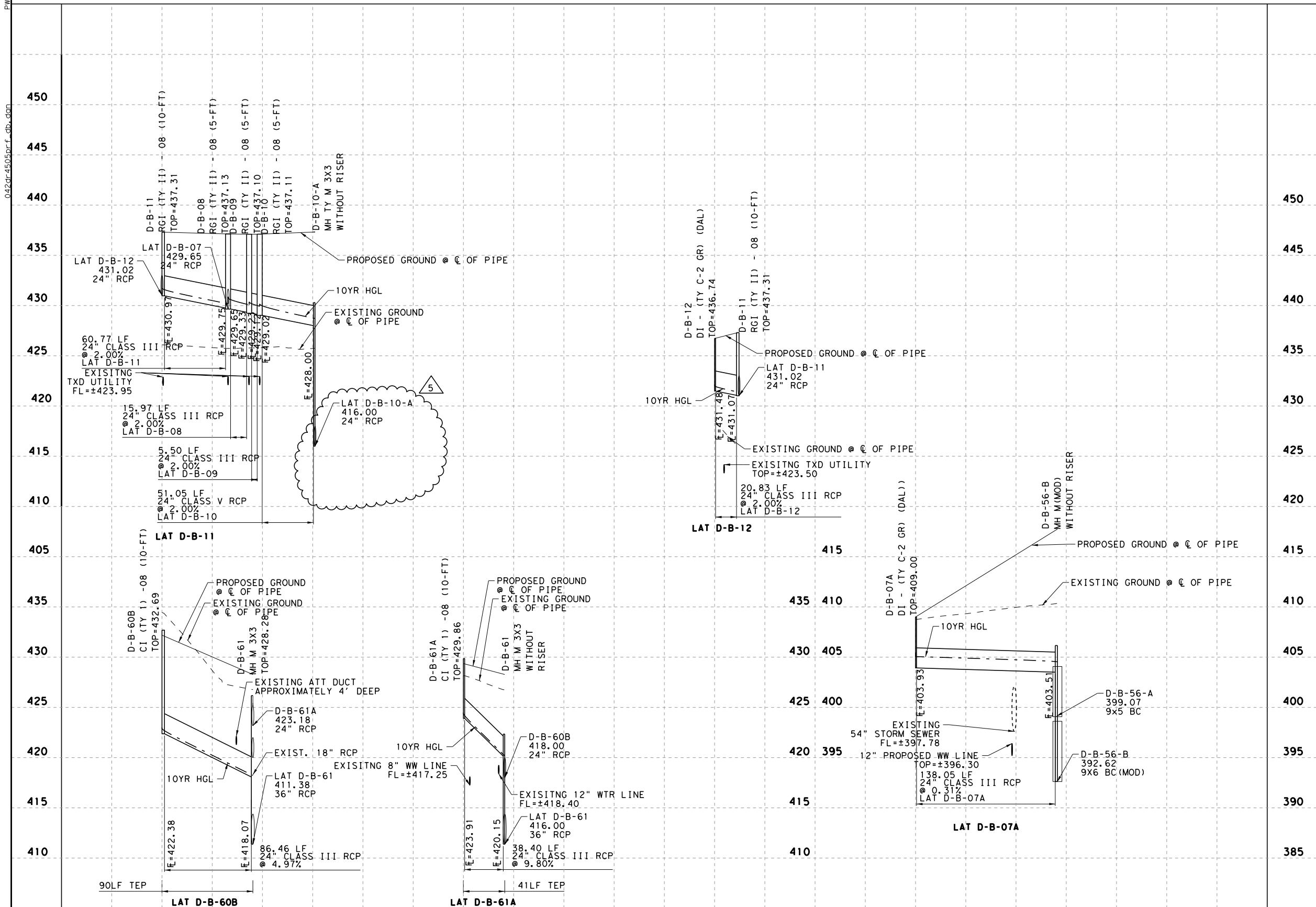
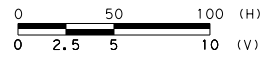
FILE NAME: 042DR4504PRF_DB
CONTROL: ECP0DR6717
DESIGN PACKAGE: RFC
SHEET: 01 OF 04

DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.			HIGHWAY NO.
6	(SEE TITLE SHEET)	IH 30			
DRAWN	STATE	DISTRICT	COUNTY	SHEET NO.	
BZ	TEXAS	DAL	DALLAS	DR4504	
CHECKED	SECTION	JOB			
SV	CONTROL	116			
APPROVED	SP	1068	04	116	

4/7/2015 8:18:23 PM
ip1otdrvm.plt

042dr4505prf_db.dgn

PWDGSS



RELEASED FOR CONSTRUCTION

By Amanda Lee at 10:22 am, Apr 17, 2015

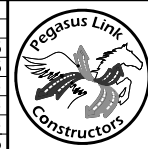
Pegasus Link Constructors



P. Srilakshmi 4/8/2015

Texas Department of Transportation
© 2015

ISSUE RECORD		
NO.	DESCRIPTION	DATE
0	RFC	10/10/2013
1	NDC 00023	11/06/2013
2	NDC 00082	04/21/2014
3	NDC 00101	05/23/2014
4	NDC 00142	08/25/2014
5	NDC 00172	04/08/2015



Pegasus Link Constructors, LLC

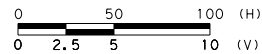
AECOM AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT DRAINAGE PROFILE SYSTEM D-B LATERALS

FILE NAME:
042DR4505PRF_DB
CONTROL:
ECP0DR6717
DESIGN PACKAGE:
RFC
SHEET:
02 OF 04

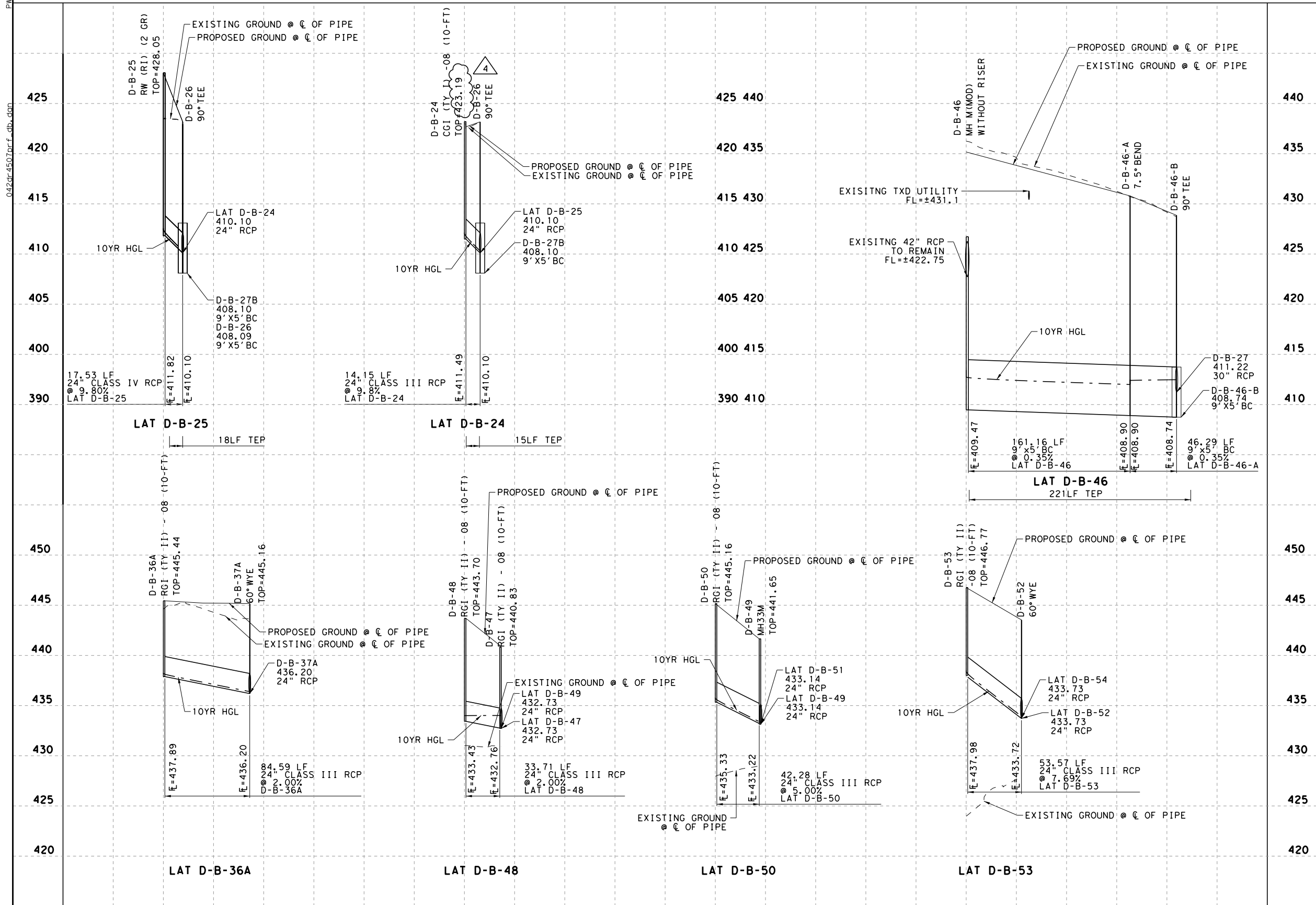
DESIGNED	SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
DRAWN	BZ	6	(SEE TITLE SHEET)	IH 30
CHECKED	SV	STATE	DISTRICT	COUNTY
APPROVED	SV	TEXAS	DAL	DALLAS
		CONTROL	SECTION	JOB
		1068	04	116
				DR4505

4/7/2015 8:18:55 PM
ip1otdrvm.plt
\\pwc\ss\pwc\swrk\41712\19805_84\042dr4505prf_db.dgn



 *Texas Department of Transportation*
(C) 2014

DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
DRAWN BZ	6	(SEE TITLE SHEET)		IH 30
CHECKED SV	STATE	DISTRICT	COUNTY	SHEET NO.
APPROVED SV	TEXAS	DAL	DALLAS	DR4506
	CONTROL	SECTION	JOB	
	1068	04	116	



RELEASED FOR CONSTRUCTION

By Beth Blair at 10:38 am, Jul 09, 2014

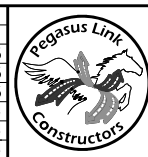
Pegasus Link Constructors



P. Srilakshmi 6/23/2014

Texas Department of Transportation
© 2014

NO.	ISSUE RECORD DESCRIPTION	DATE
C	FINAL	09/09/2013
0	RFC	10/10/2013
1	NDC 00023	11/06/2013
2	NDC 00082	04/21/2014
3	NDC 00101	05/23/2014
4	NDC 00115	06/23/2014



Pegasus Link Constructors, LLC

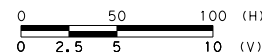
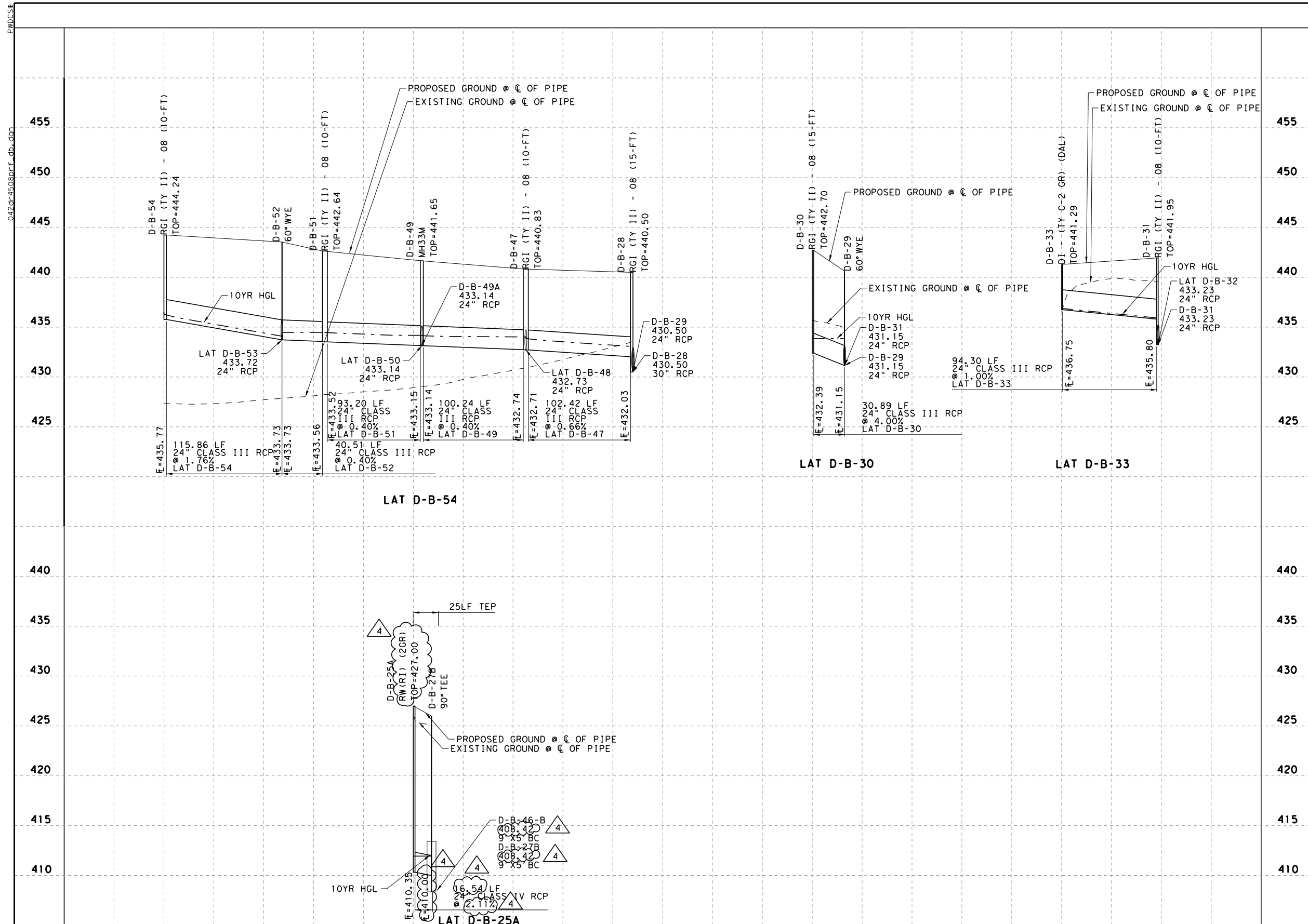
AECOM AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT DRAINAGE PROFILE SYSTEM D-B LATERALS

FILE NAME:
042DR4507PRF_DB
CONTROL:
ECP0DR6717
DESIGN PACKAGE:
RFC
SHEET:
04 OF 04

DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
BZ	6	(SEE TITLE SHEET)	IH 30
CHECKED FG	STATE	DISTRICT	COUNTY
FG	TEXAS	DAL	DALLAS
APPROVED SP	SECTION	JOB	SHEET NO.
SP	1068	04	116

DR4507



RELEASED FOR CONSTRUCTION

By Beth Blair at 10:38 am, Jul 09, 2014

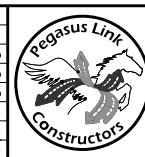
Pegasus Link Constructors



P. Srilakshmi 6/23/2014



ISSUE RECORD		
NO.	DESCRIPTION	DATE
C	FINAL	09/09/2013
0	RFC	10/10/2013
1	NDC 00023	11/06/2013
2	NDC 00082	04/21/2014
3	NDC 00101	05/23/2014
4	NDC 00115	06/23/2014



Pegasus Link Constructors, LLC

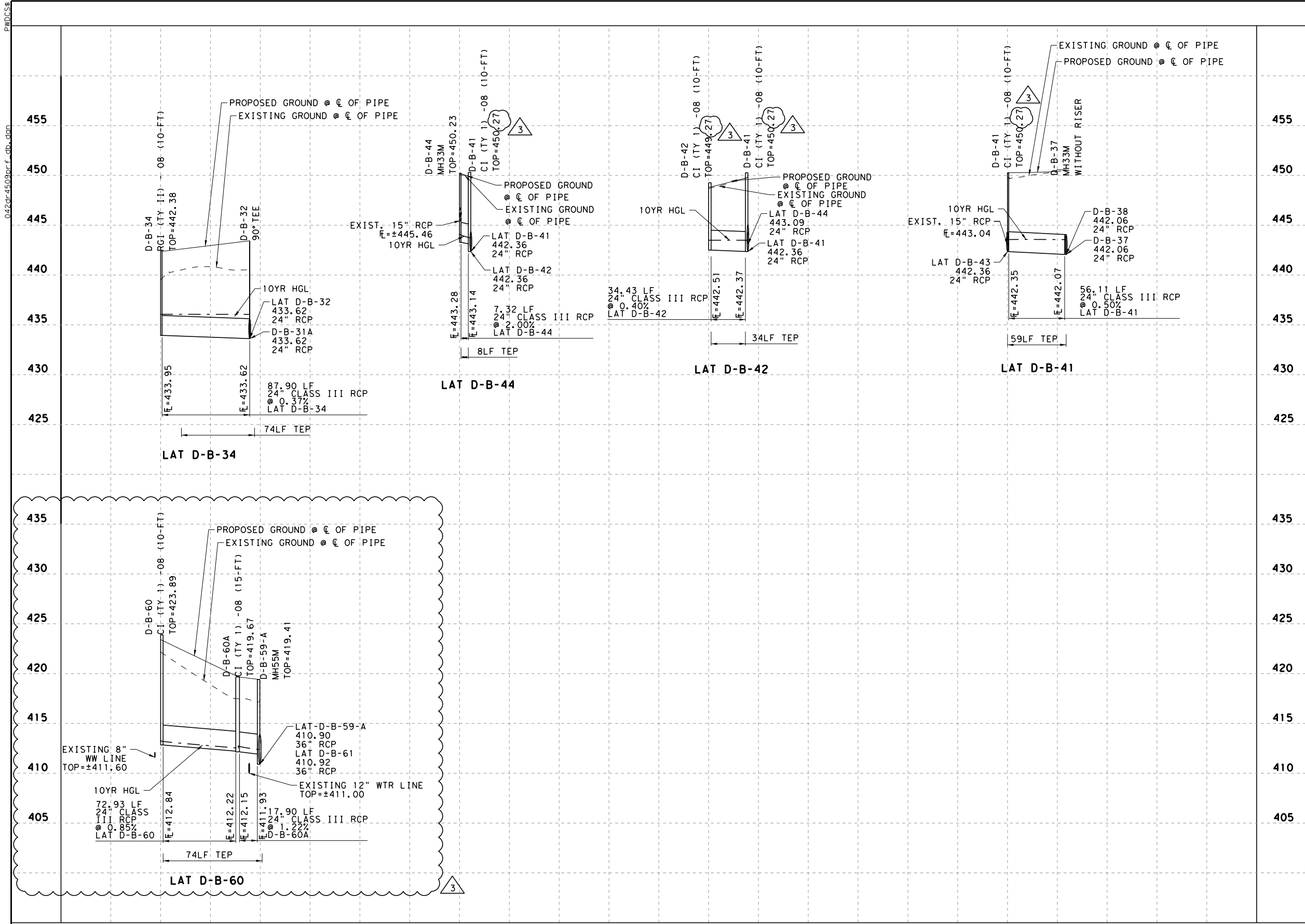
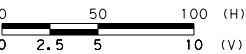


AECOM Technical Services, Inc.- F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT DRAINAGE PROFILE SYSTEM D-B LATERALS

FILE NAME: 042DR4508PRF_DB	DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
CONTROL: ECPDR6717	DRAWN BZ	6	(SEE TITLE SHEET)	
DESIGN PACKAGE: RFC	CHECKED FG	STATE	DISTRICT	COUNTY
SHEET: 01 OF 02	APPROVED SP	TEXAS	DAL	DALLAS
		CONTROL	SECTION	JOB
		1068	04	116
				DR4508

042dr4509prf_db.dgn
P:\pdc\ss\pdc\ss\042dr4509prf_db.dgn



RELEASED FOR CONSTRUCTION

By Beth Blair at 3:21 pm, Jun 09, 2014

Pegasus Link Constructors



p.srilakshmi 5/23/14

Texas Department of Transportation
© 2014

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
0	RFC	10/10/2013
1	NDC 00023	11/06/2013
2	NDC 00088	04/23/2014
3	NDC 00101	05/23/2014



Pegasus Link Constructors, LLC

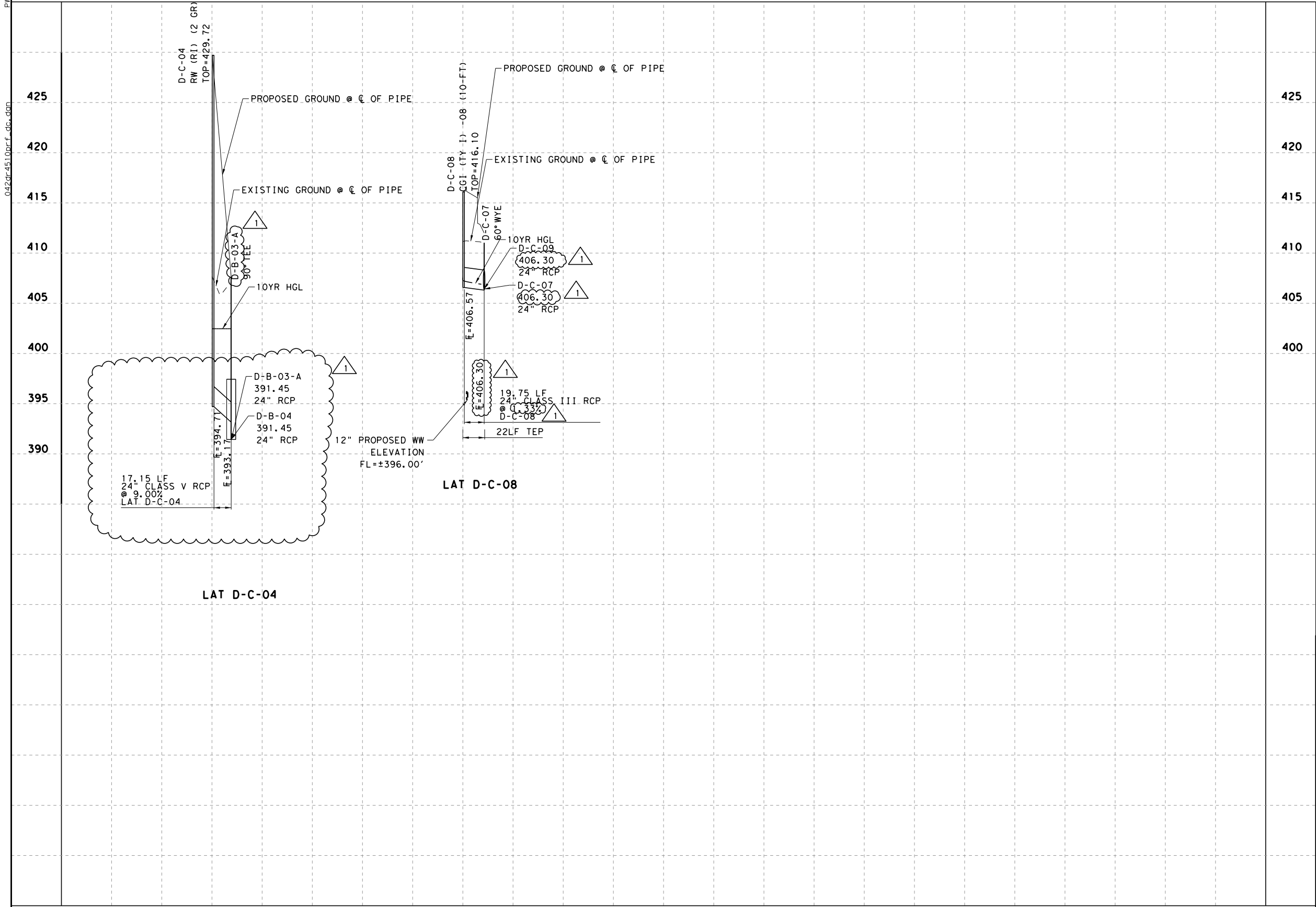
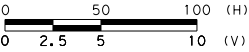
AECOM
AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

**HORSESHOE PROJECT
DRAINAGE PROFILE
SYSTEM D-B LATERALS**

FILE NAME: 042DR4509PRF_DB	DESIGNED SP	FED. RD. DIV. NO.	6	FEDERAL AID PROJECT NO.	(SEE TITLE SHEET)	HIGHWAY NO.	1H 30
CONTROL: ECP0DR6717	DRAWN BZ	STATE	TEXAS	DISTRICT	DAL	COUNTY	DALLAS
DESIGN PACKAGE: RFC	CHECKED FG	SECTION	1068	JOB	04		
SHEET: 06 OF 06	APPROVED SP						DR4509

5/23/2014 1:15:55 AM
p:\pdc\ss\pdc\ss\042dr4509prf_db.dgn

042dr-4510prf_dc.dgn
P:\pdc\ss



RELEASED FOR CONSTRUCTION

By Alyssa Moss at 12:24 pm, Sep 09, 2014

Pegasus Link Constructors



P. Srilakshmi 8/25/2014

Texas Department of Transportation
© 2014

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
O	RFC	10/10/2013
1	NDC 00142	08/25/2014



Pegasus Link Constructors, LLC



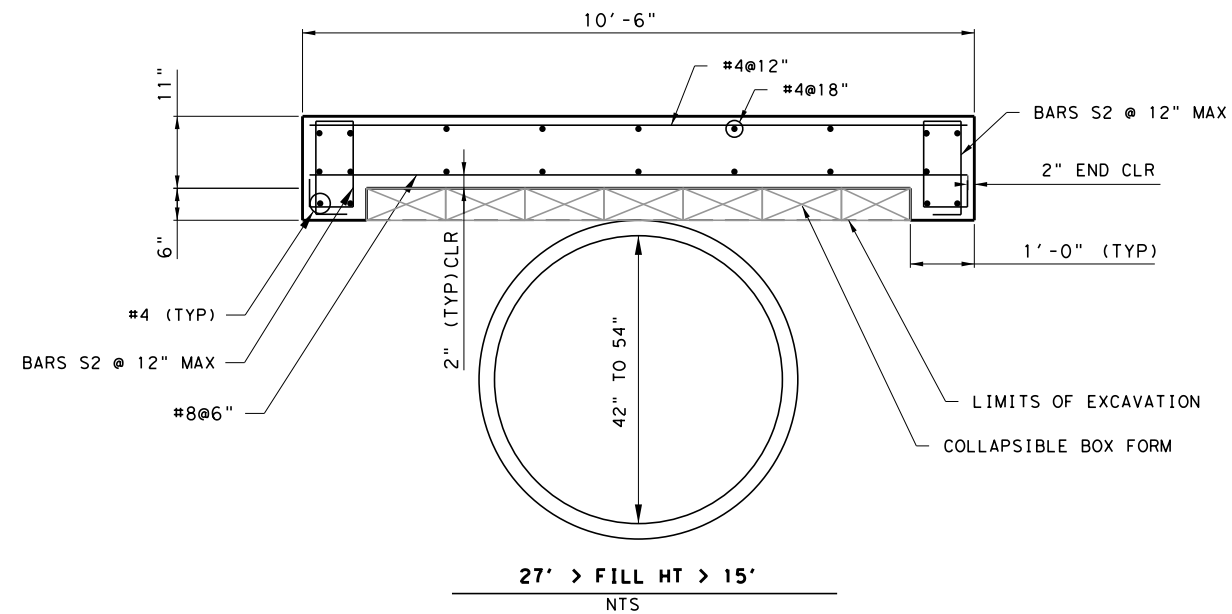
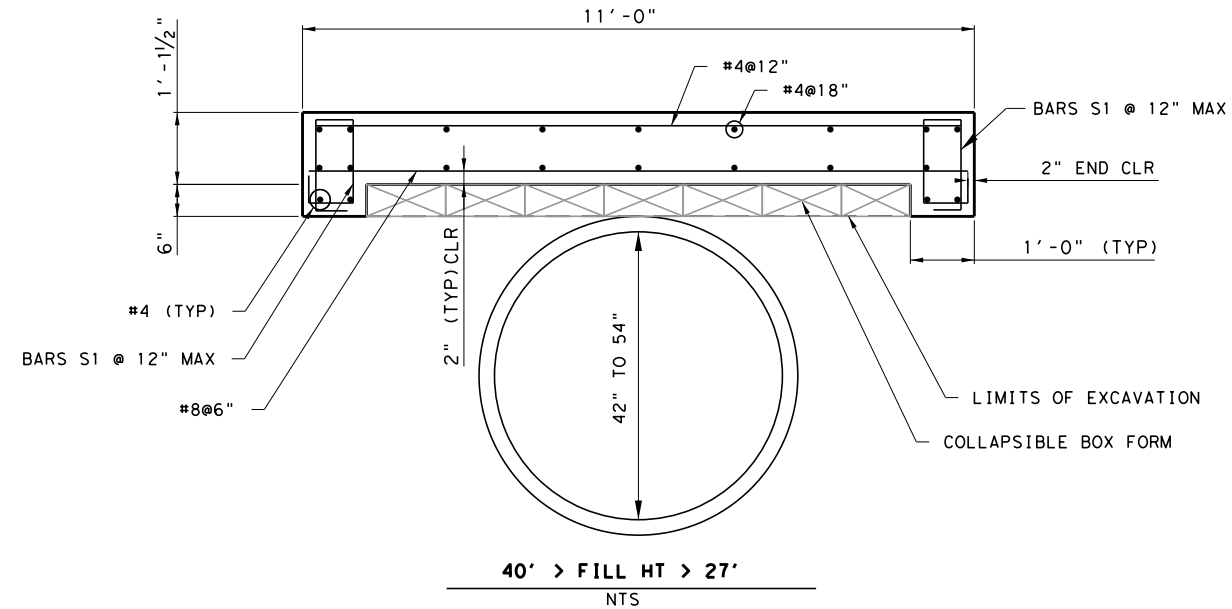
AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

**HORSESHOE PROJECT
DRAINAGE PROFILE
SYSTEM D-C LATERALS**

FILE NAME:
042DR4510PRF_DC
CONTROL:
ECP0DR6717
DESIGN PACKAGE:
RFC
SHEET:
01 OF 01

DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.			HIGHWAY NO.
BZ	6	(SEE TITLE SHEET)			IH 30
CHECKED SV	STATE	DISTRICT	COUNTY	SHEET NO.	
SV	TEXAS	DAL	DALLAS	DR4510	
APPROVED SV	CONTROL	SECTION	JOB		
SV	1068	04	116		

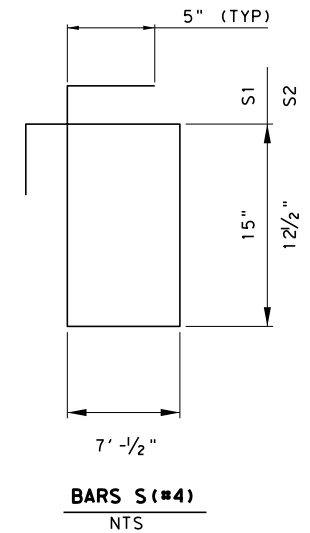
8/18/2014 8:55:30 PM
ip10t-dr-vn.plt
\\pdc\ss\pdc\ss\work\29638\19805_116\042dr-4510prf_dc.dgn



NOTE: REFERENCE SHEET DR4104

GENERAL NOTES:

ALL CONCRETE IS CLASS C $f_c=3,600$ ksi.
ALL REINFORCING STEEL IS GRADE 60,
 $f_y=60$ ksi.

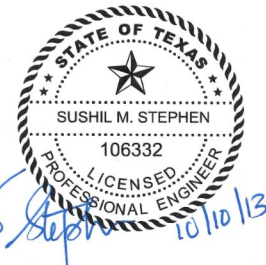



HL93 LOADING

RELEASED FOR CONSTRUCTION

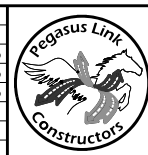
By Beth Blair at 3:08 pm, Oct 22, 2013

Pegasus Link Constructors



 **Texas Department of Transportation**
© 2013

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
O	RFC	10/10/2013

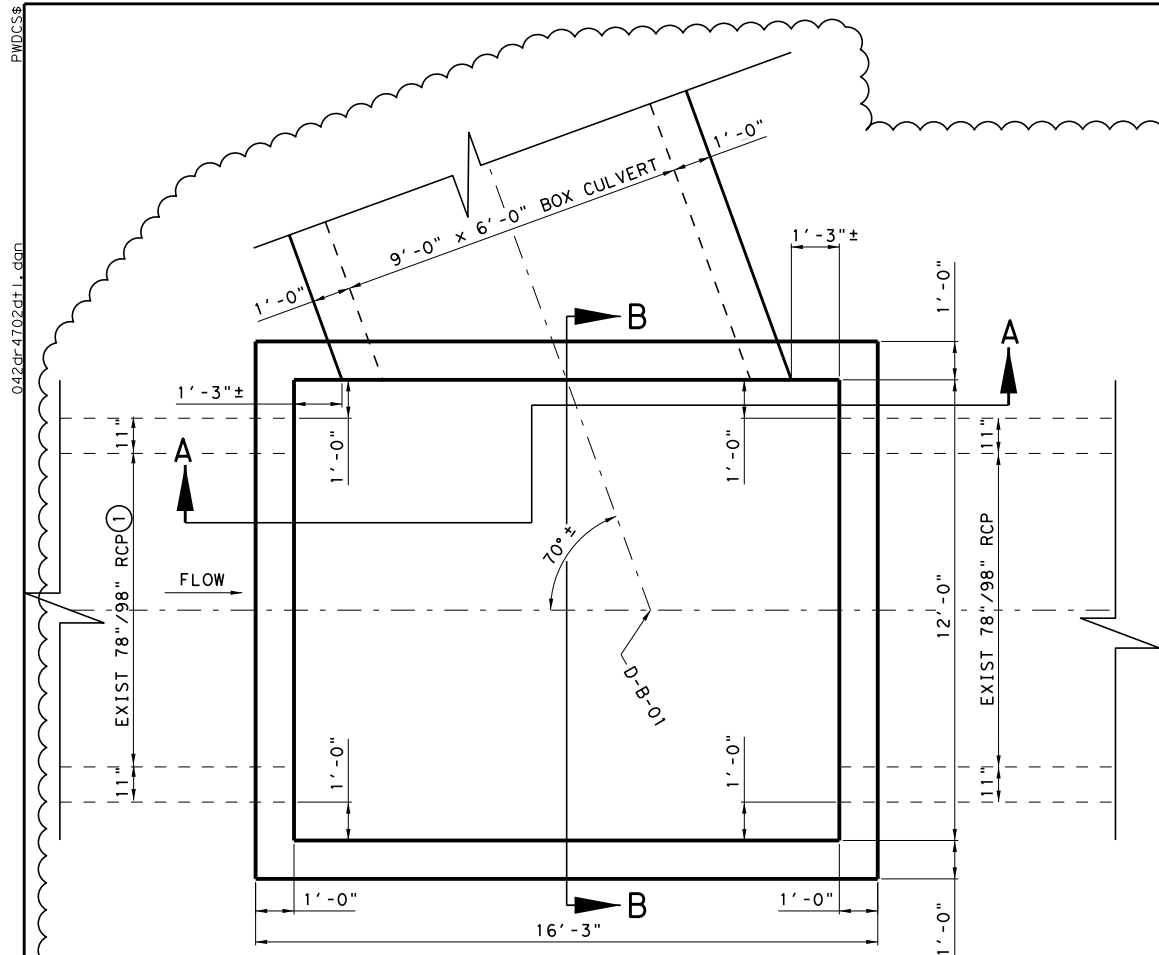


Pegasus Link Constructors, LLC

AECOM AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

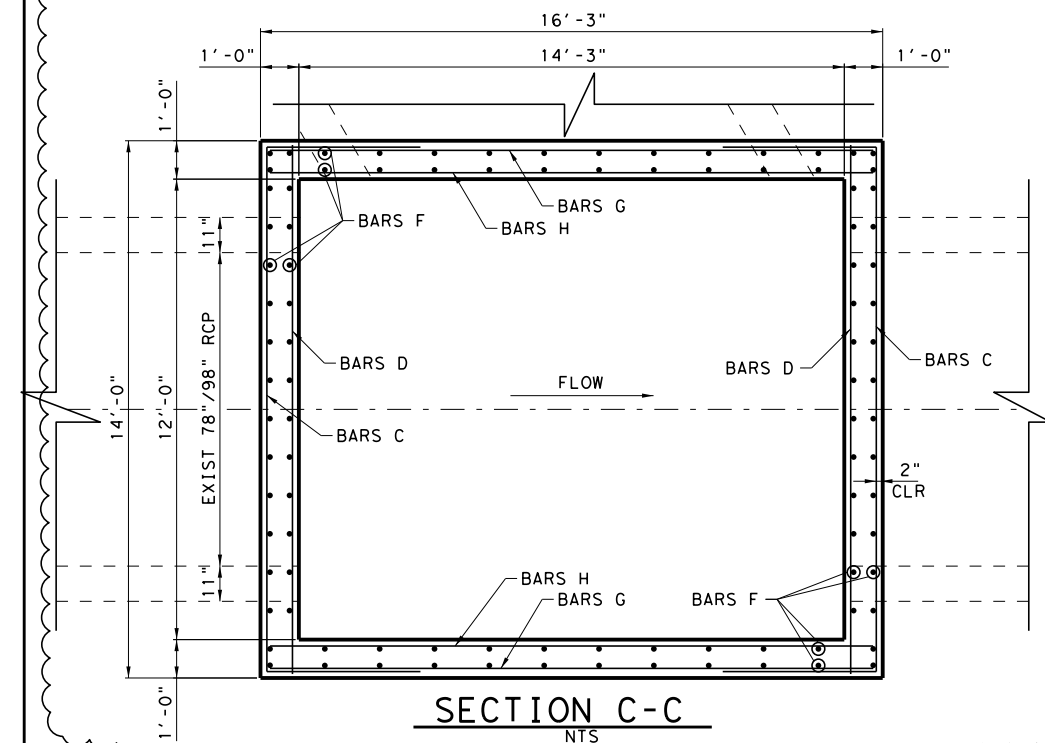
**HORSESHOE PROJECT
DRAINAGE DETAIL
PROTECTION SLAB DETAIL**

FILE NAME: 042DR4701DTL	DESIGNED SMS	FED. RD. DIV. NO. 6	FEDERAL AID PROJECT NO. (SEE TITLE SHEET)	HIGHWAY NO. IH 30
CONTROL: ECP0DR6717	DRAWN BZ	STATE TEXAS	DISTRICT DAL	COUNTY DALLAS
DESIGN PACKAGE: RFC	CHECKED FG	SECTION 1068	JOB 04	SHEET NO. 116
SHEET: 01 OF 01	APPROVED SMS	DR4701		



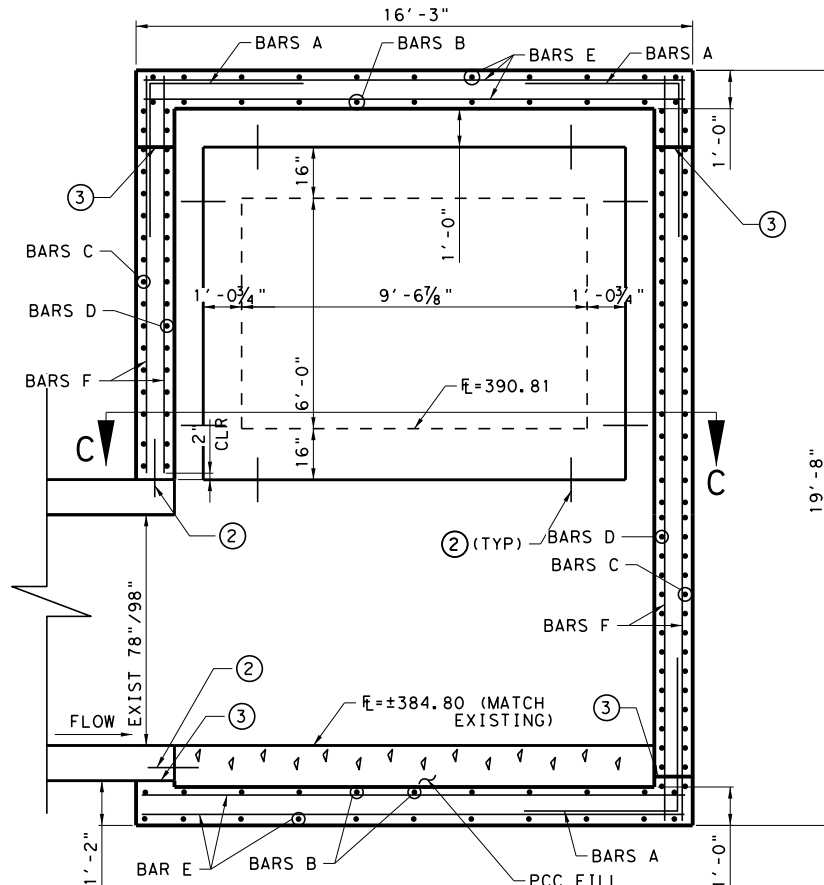
PLAN VIEW

NTS
NOTE: REFERENCE SHEETS DR4104 AND DR4405



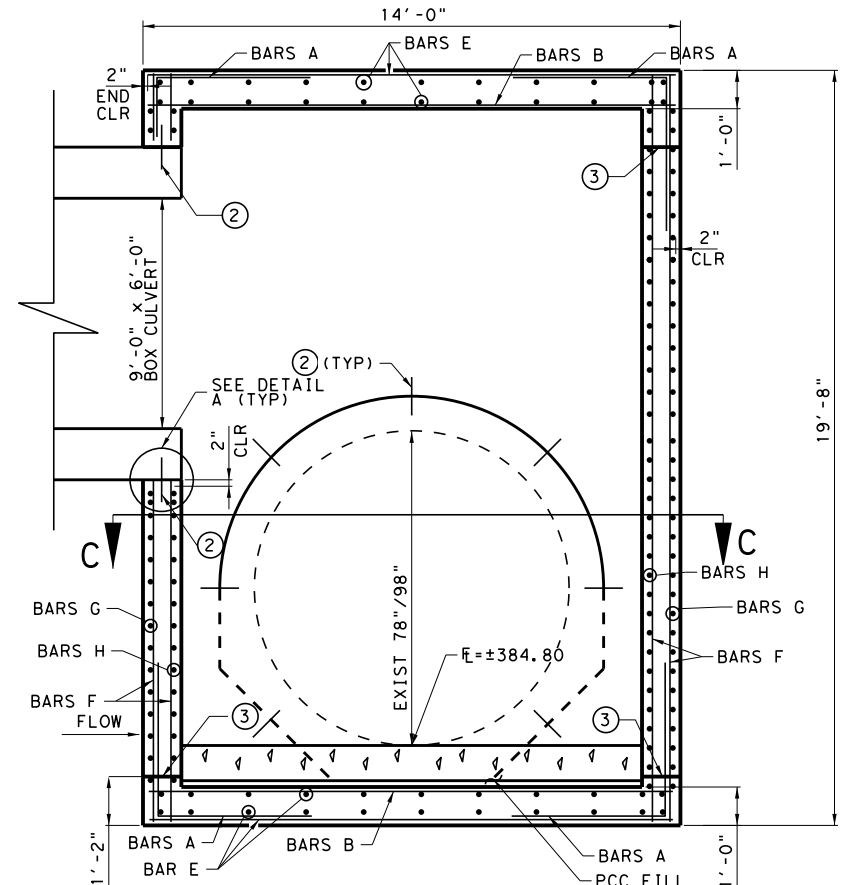
SECTION C-C

NTS



SECTION A-A

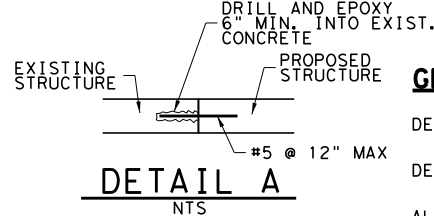
NTS



SECTION B-B

NTS

BAR	SIZE	SPA
A	#6	6"
B	#6	6"
C	#6	6"
D	#6	6"
E	#5	12"
F	#5	12"
G	#5	12"
H	#6	6"



DETAIL A

NTS

GENERAL NOTES:

DESIGNED ACCORDING TO AASHTO LRFD SPECIFICATIONS.

DESIGNED TO A MAXIMUM FILL HEIGHT OF 7'.

ALL REINFORCING STEEL SHALL BE GRADE 60, $f_y=60\text{ksi}$.

ALL CONCRETE SHALL BE CLASS "C" WITH A MINIMUM COMPRESSIVE STRENGTH OF 3,600 PSI.

THE USE OF PERMANENT FORMS IS NOT ALLOWED.

THE BOTTOM EDGE OF THE TOP SLAB SHALL BE CHAMFERED 3" AT THE ENTRANCE.

REINFORCING BARS SHALL BE ADJUSTED TO PROVIDE A MINIMUM OF 2" CLEAR COVER.

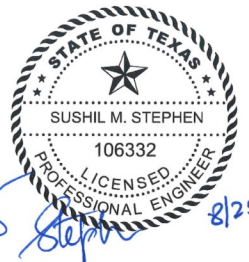
LAP LENGTH #5 - 3'-0", #6 - 3'-7"

- FROM AS-BUILTS
- #5 DOWELS @ 6" C/C WITH 6" MIN EMBEDMENT. EPOXY GROUT DOWELS INTO EXISTING STRUCTURE BEFORE CASTING PROPOSED STRUCTURE. SEE DETAIL A.
- OPTIONAL CONSTRUCTION JOINT.

RELEASED FOR CONSTRUCTION

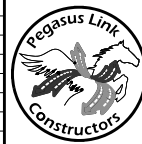
By Alyssa Moss at 12:24 pm, Sep 09, 2014

Pegasus Link Constructors



Texas Department of Transportation
© 2014

NO.	DESCRIPTION	DATE
A	FINAL	09/09/2013
O	RFC	10/10/2013
1	NDC 00142	08/25/2014



Pegasus Link Constructors, LLC

AECOM

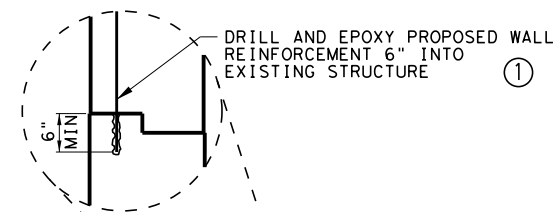
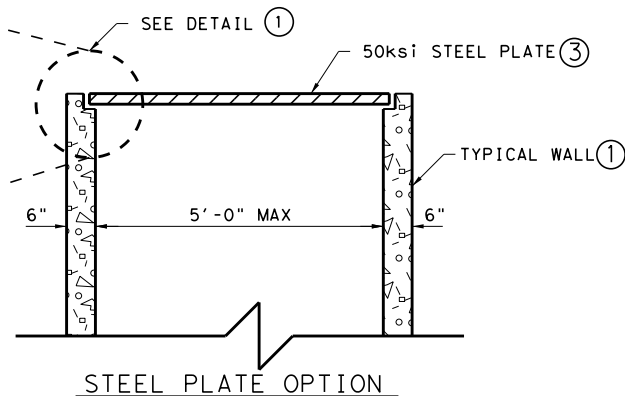
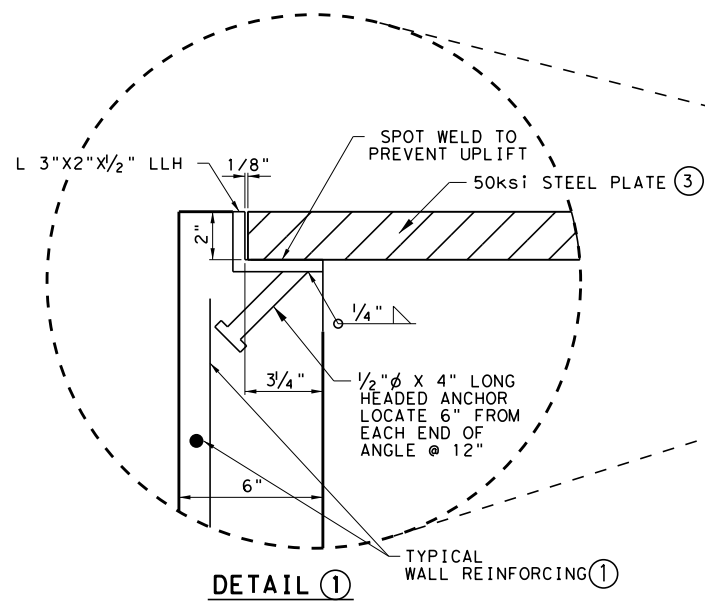
AECOM Technical Services, Inc. F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
DRAINAGE DETAIL
JUNCTION BOX @ D-B-01

FILE NAME:
042DR4702DTL
CONTROL:
ECP0DR6717
DESIGN PACKAGE:
RFC
SHEET:
01 OF 01

DESIGNED	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
SMS	6	(SEE TITLE SHEET)	IH 30
DRAWN	STATE	DISTRICT	COUNTY
BZ	TEXAS	DAL	DALLAS
CHECKED	SECTION	JOB	
GF	1068	04	116
APPROVED			
SMS			

DR4702



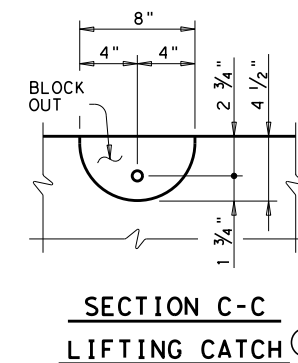
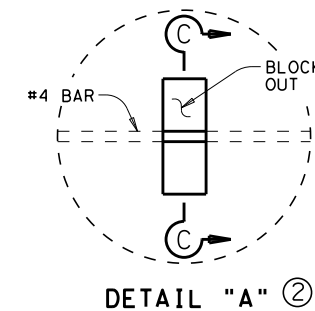
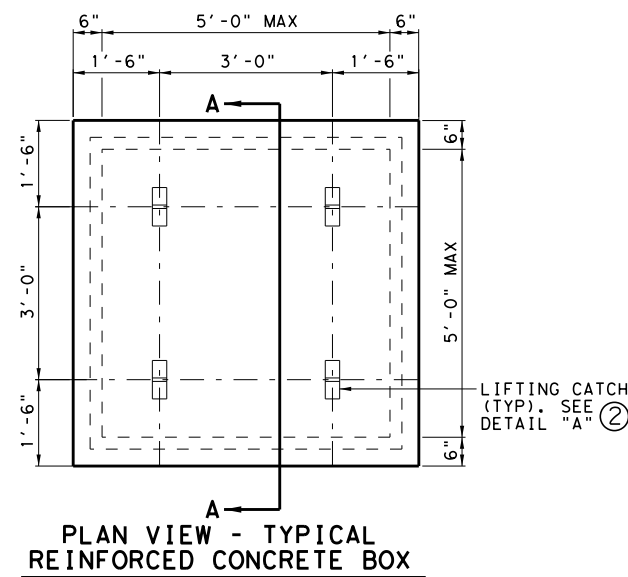
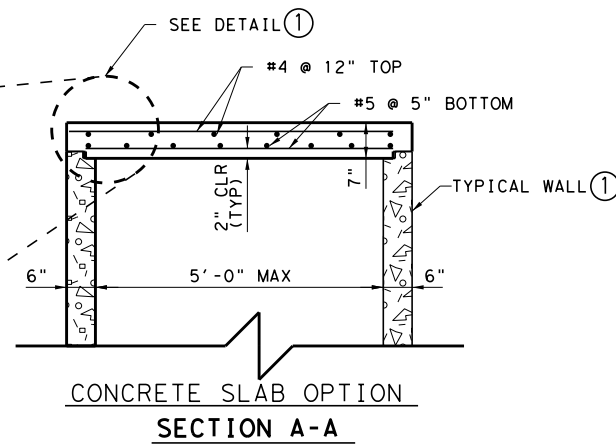
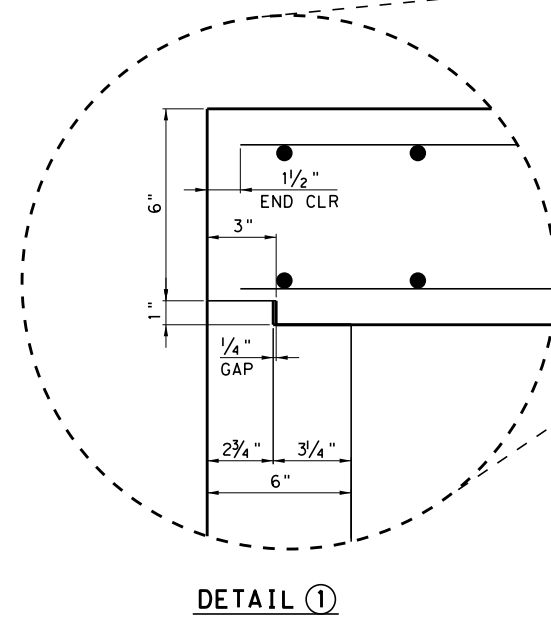
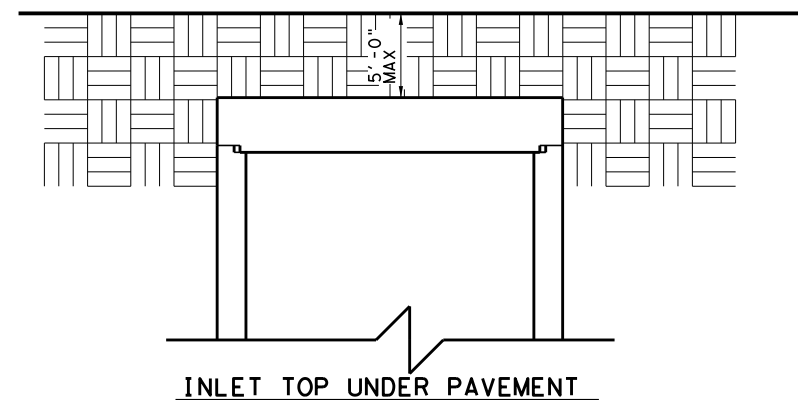
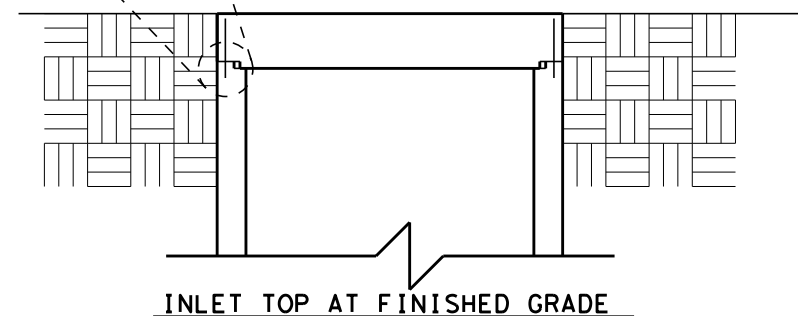
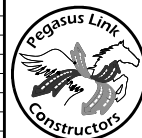
- ① SEE ELSEWHERE IN PLANS FOR PROPOSED REINFORCEMENT IN WALLS.
- ② DISTRIBUTE LOADS EQUALLY BETWEEN LIFTING CATCHES.
- ③ A572 GRADE 50 (ASTM).

GENERAL NOTES:

ALL CONCRETE SHALL BE
CLASS "C" $f'_c=3600$ PSI.

ALL REINFORCING STEEL
SHALL BE $f_y=60$ KSI.

ALL MATERIALS TO CONFORM
TO TXDOT STANDARDS
SPECIFICATIONS 2004.

[illegible]

Pegasus Link Constructors,LLC



AECOM Technical Services, Inc.- F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
DRAINAGE DETAIL
TEMPORARY INLET COVER

FILE NAME:	042DR4703DT
CONTROL:	ECP0DR6717
DESIGN PACKAGE:	RFC
SHEET:	01 OF 01

DESIGNED	SMS
DRAWN	BZ
CHECKED	SV
APPROVED	SMS

FED. RD. DIV. NO.
6
STATE
TEXAS
CONTROL
1068

FEDERAL AID PROJECT NO.	
(SEE TITLE SHEET)	
DISTRICT	COUNTY
DAL	DALLAS
SECTION	JOB
04	116

	HIGHWAY NO.
0	IH 30
	SHEET NO.
	DR4703

 [®] *Texas Department of Transportation*
(C) 2014

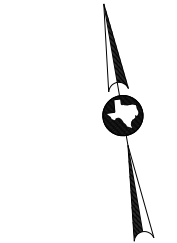


SUSHIL M. STEPHENSON

.....
106332

A circular professional engineer seal for the State of Florida. The outer ring contains the text "FLORIDA" at the top and "PROFESSIONAL ENGINEER" at the bottom. The center of the seal features a large, stylized blue letter "E". The seal is partially obscured by a blue ink signature.

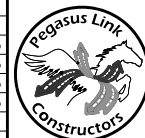
3/2/14



STATE OF TEXAS
SRI LAKSHMI PALADUGU
106218
LICENSED
PROFESSIONAL ENGINEER
10/10/13

DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
DRAWN	6	(SEE TITLE SHEET)		IH 30
BZ	STATE	DISTRICT	COUNTY	SHEET NO.
CHECKED FG	TEXAS	DAL	DALLAS	DR5001
APPROVED SP	CONTROL	SECTION	JOB	
	1068	04	116	

ISSUE RECORD		
NO.	DESCRIPTION	DATE
A	INTERIM	05/01/2013
B	REVISED	07/05/2013
C	FINAL	09/09/2013
O	RFC	10/10/2013

**AECOM**

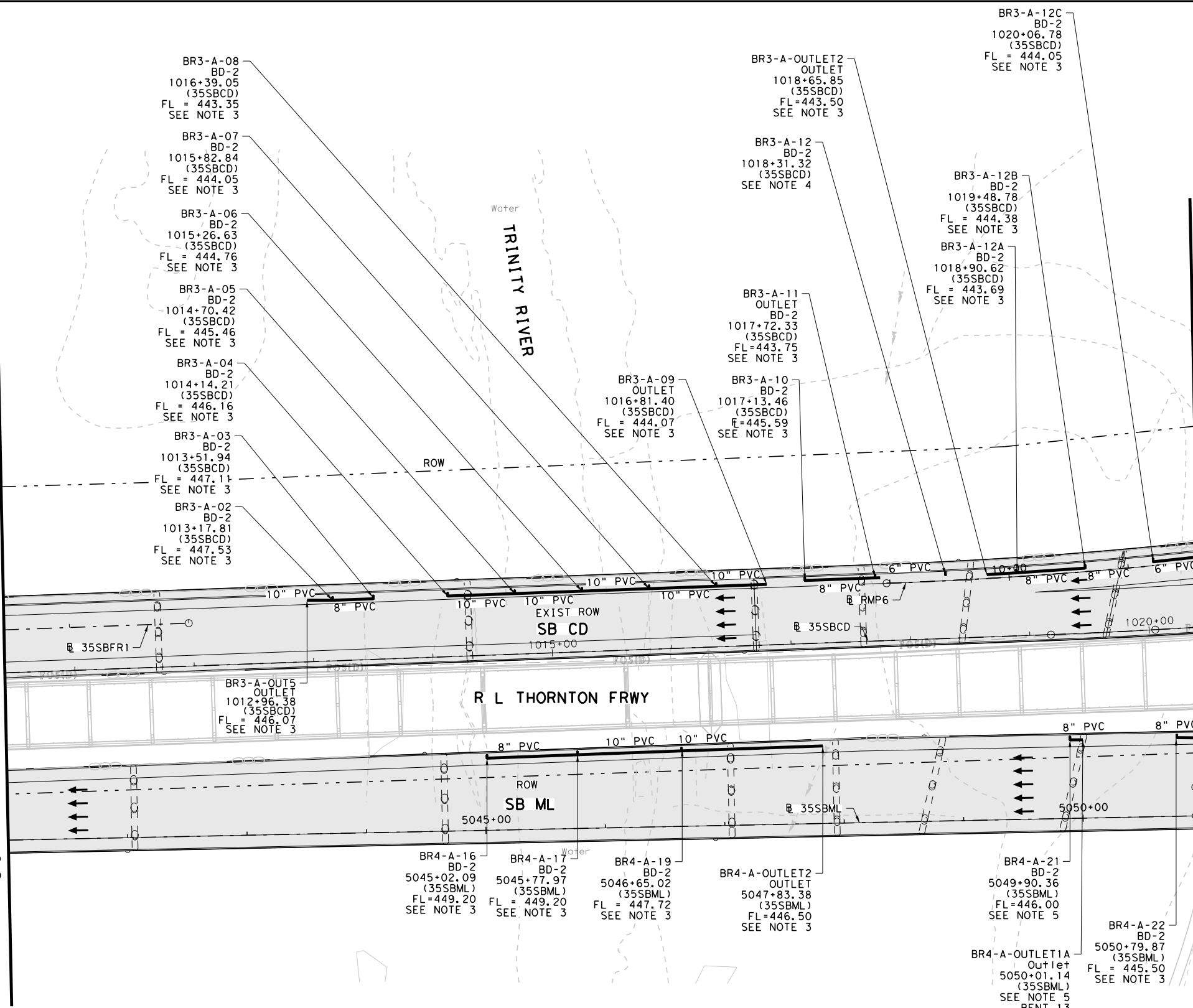
AECOM Technical Services, Inc.- F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
DRAINAGE SYSTEM
MIX MASTER STORM SEWER SYSTEM LAYOUT

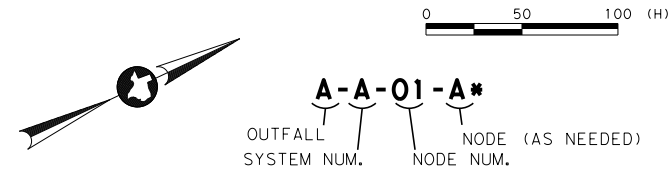
FILE NAME:	042DR5001SYS
CONTROL:	ECP0DR6897
DESIGN PACKAGE:	RFC
SHEET:	01 OF 01

DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
DRAWN BZ	6	(SEE TITLE SHEET)		IH 30
CHECKED FG	STATE	DISTRICT	COUNTY	SHEET NO.
APPROVED SP	TEXAS	DAL	DALLAS	DR5001
	CONTROL	SECTION	JOB	
	1068	04	116	

Match Line (35SBML) STA 5041+00
(Sheet Number DR4105)



Match Line (35SBML) STA 5051+00
(Sheet Number DR5102)



A-A-01-A*
OUTFALL SYSTEM NUM. NODE (AS NEEDED) NODE NUM.

DRAINAGE PLAN LEGEND

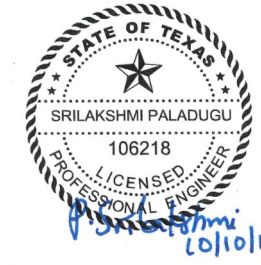
- PROPOSED STORM SEWER
- DRAINAGE DITCH
- RETAINING WALL
- TRAFFIC DIRECTION
- OVERHEAD SIGN
- I.T.S.
- DITCH BLOCK

- NOTES:**
- DESIGN-BUILD CONTRACTOR SHALL COORDINATE WITH UTILITY AND TEMPORARY LIGHTING PLANS REGARDING REMOVAL, RELOCATION, OR ABANDONMENT OF UTILITIES, ELECTRIC LINES AND LIGHT POLES.
 - DESIGN-BUILD CONTRACTOR SHALL PROVIDE 2" BLOCK SOD AROUND THE PERIMETER OF ALL DROP INLETS, GRATE INLETS AND MANHOLES IN NON PAVED AREAS.
 - DECK DRAIN SYSTEM OPEN DRAINS TO GROUND.
 - DECK DRAIN OPEN DRAINS TO GROUND.
 - DECK DRAIN SYSTEM CONVEYS THROUGH COLUMN TO PROPOSED SYSTEM BELOW.

RELEASED FOR CONSTRUCTION

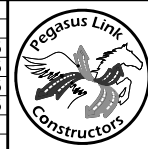
By Beth Blair at 3:08 pm, Oct 22, 2013

Pegasus Link Constructors



Texas Department of Transportation
© 2013

ISSUE RECORD		
NO.	DESCRIPTION	DATE
A	INTERIM	05/01/2013
B	REVISED	07/05/2013
C	FINAL	09/09/2013
O	RFC	10/10/2013

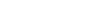


Pegasus Link Constructors, LLC
AECOM
AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT DRAINAGE PLAN (35SBML) STA 5041+00 TO STA 5051+00

FILE NAME:
042DR5101PLN
CONTROL:
ECP0DR6897
DESIGN PACKAGE:
RFC
SHEET:
01 OF 05

DESIGNED	SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
DRAWN	BZ	6	(SEE TITLE SHEET)		1H 30
CHECKED	FG	STATE	DISTRICT	COUNTY	SHEET NO.
APPROVED	SP	TEXAS	DAL	DALLAS	DR5101
		CONTROL	SECTION	JOB	
		1068	04	116	

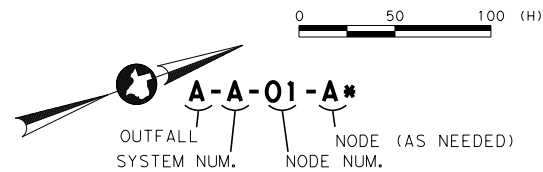
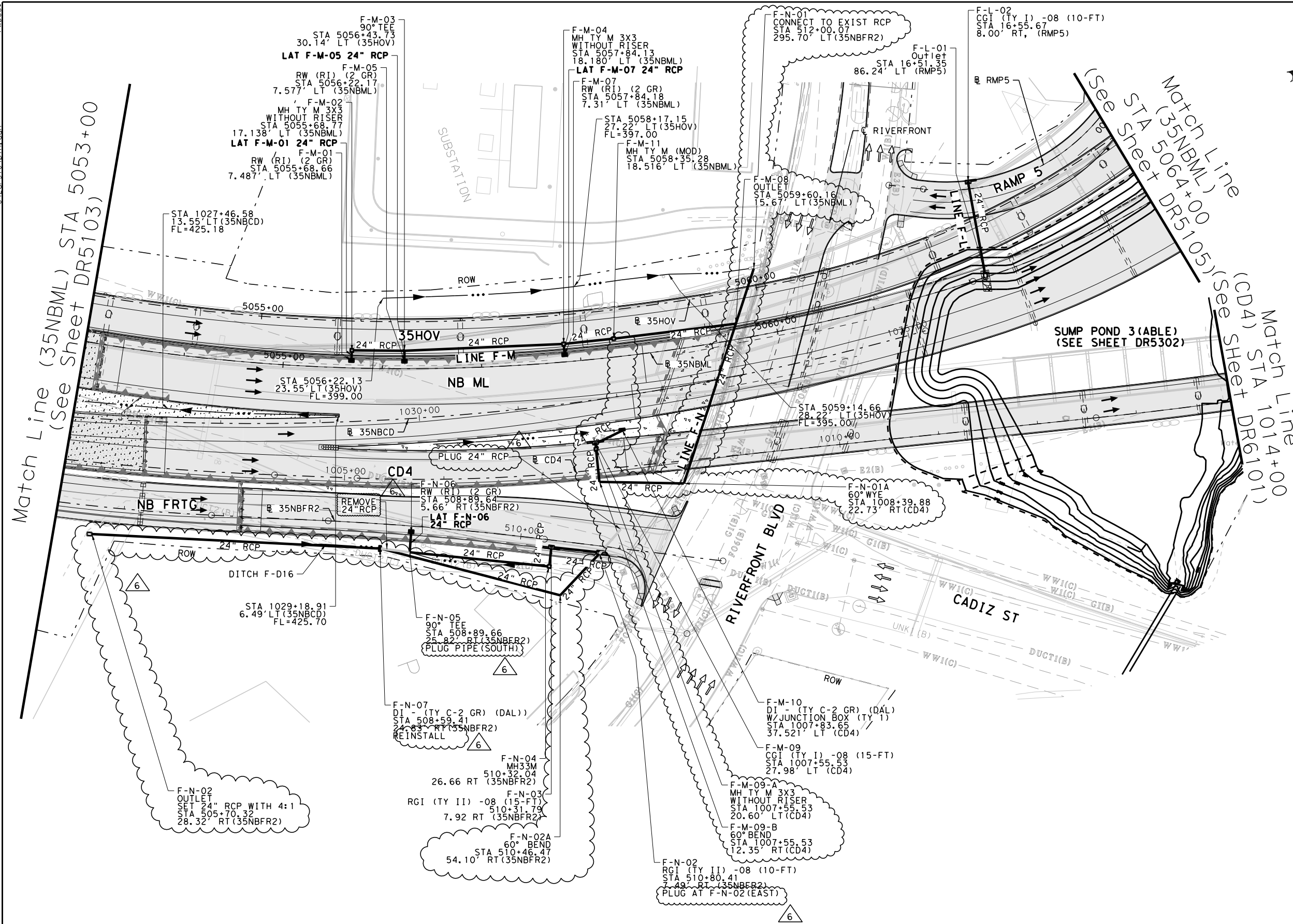
	PROPOSED STORM SEWER
	DRAINAGE DITCH
	RETAINING WALL
	TRAFFIC DIRECTION
	OVERHEAD SIGN
	I. T. S.
	DITCH BLOCK

- NOTES:
1. DESIGN-BUILD CONTRACTOR SHALL COORDINATE WITH UTILITY AND TEMPORARY LIGHTING PLANS REGARDING REMOVAL, RELOCATION, OR ABANDONMENT OF UTILITIES, ELECTRIC LINES AND LIGHT POLES.
 2. DESIGN-BUILD CONTRACTOR SHALL PROVIDE 2' BLOCK SOD AROUND THE PERIMETER OF ALL DROP INLETS, GRATE INLETS AND MANHOLES IN NON PAVED AREAS.
 3. DECK DRAIN SYSTEM OPEN DRAINS TO GROUND.
 4. DECK DRAIN OPEN DRAINS TO GROUND.
 5. DECK DRAIN SYSTEM CONVEYS THROUGH COLUMN TO PROPOSED SYSTEM BELOW.

Pegasus Link Constructors



FILE NAME:	042DR5103PLN	DESIGNED	SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
CONTROL:	ECP0DR6897	DRAWN	BZ	6	(SEE TITLE SHEET)		IH 30
DESIGN PACKAGE:	RFC	CHECKED	FG	STATE	DISTRICT	COUNTY	SHEET NO.
SHEET:	03_OF 05	APPROVED	SP	TEXAS	DAL	DALLAS	DR5103
				CONTROL	SECTION	JOB	
				1068	04	116	



DRAINAGE PLAN LEGEND

- PROPOSED STORM SEWER
- DRAINAGE DITCH
- RETAINING WALL
- TRAFFIC DIRECTION
- OVERHEAD SIGN
- I.T.S.
- DITCH BLOCK

- NOTES:
- DESIGN-BUILD CONTRACTOR SHALL COORDINATE WITH UTILITY AND TEMPORARY LIGHTING PLANS REGARDING REMOVAL, RELOCATION, OR ABANDONMENT OF UTILITIES, ELECTRIC LINES AND LIGHT POLES.
 - DESIGN-BUILD CONTRACTOR SHALL PROVIDE 2" BLOCK SOD AROUND THE PERIMETER OF ALL DROP INLETS, GRATE INLETS AND MANHOLES IN NON PAVED AREAS.

RELEASED FOR CONSTRUCTION

By Amanda Lee at 10:22 am, Apr 17, 2015

Pegasus Link Constructors



Texas Department of Transportation
© 2015

ISSUE RECORD		
NO.	DESCRIPTION	DATE
1	NDC 00049	12/20/2013
2	NDC 00064	03/04/2014
3	NDC 00082	04/21/2014
4	NDC 00096	05/07/2014
5	NDC 00114	06/20/2014
6	NDC 00172	04/08/2015

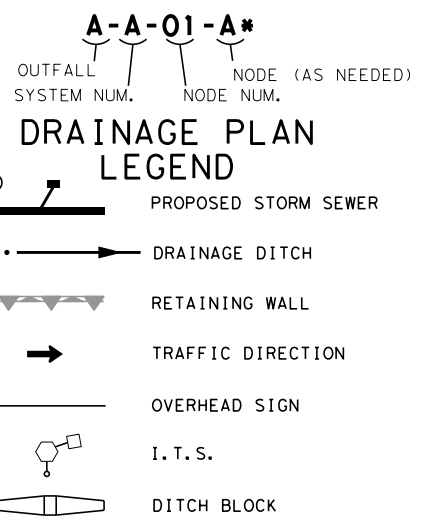
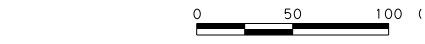
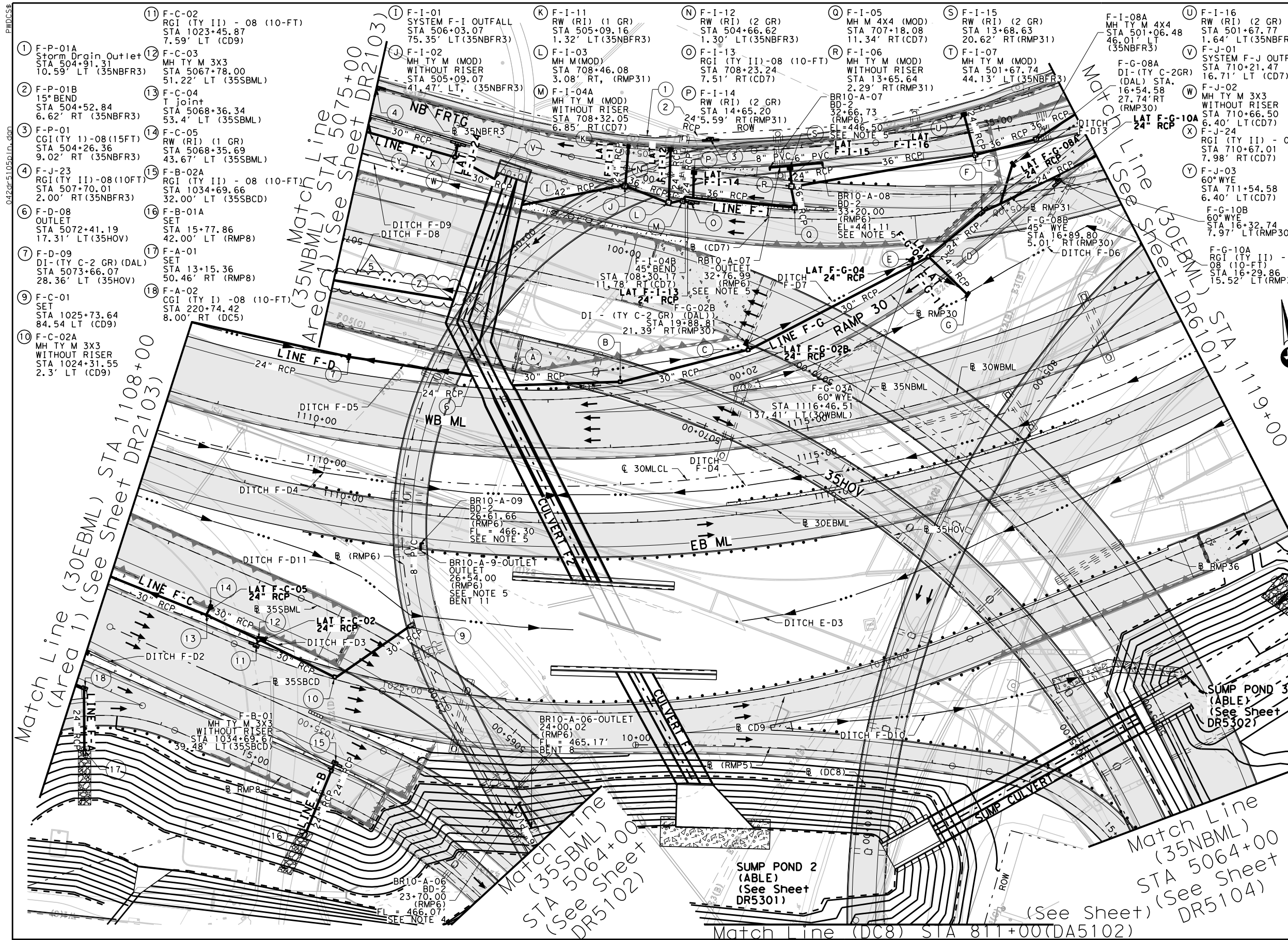


Pegasus Link Constructors, LLC

AECOM AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT DRAINAGE PLAN (35NBML) STA 5053+00 TO STA 5064+00

FILE NAME: 042DR5104PLN	DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
CONTROL: ECP0DR6897	DRAWN BZ	6	(SEE TITLE SHEET)	1H 30
DESIGN PACKAGE: RFC	CHECKED FG	STATE	DISTRICT	COUNTY
SHEET: 04 OF 05	APPROVED SP	TEXAS	DAL	DALLAS
		CONTROL	SECTION	JOB
		1068	04	116
				DR5104



- NOTES:
- DESIGN-BUILD CONTRACTOR SHALL COORDINATE WITH UTILITY AND TEMPORARY LIGHTING PLANS REGARDING REMOVAL, RELOCATION, OR ABANDONMENT OF UTILITIES, ELECTRIC LINES AND LIGHT POLES.
 - DESIGN-BUILD CONTRACTOR SHALL PROVIDE 2' BLOCK SOD AROUND THE PERIMETER OF ALL DROP INLETS, GRATE INLETS AND MANHOLES IN NON PAVED AREAS.
 - DECK DRAIN SYSTEM OPEN DRAINS TO GROUND.
 - DECK DRAIN OPEN DRAINS TO GROUND.
 - DECK DRAIN SYSTEM CONVEYS THROUGH COLUMN TO PROPOSED SYSTEM BELOW.

- (A) F-G-01
Outlet
STA 1112+05.81
62.71' LT (30WBML)
- (B) F-G-01A
MH TY M 3X3
STA 1113+12.30
66.04' LT (30WBML)
- (C) F-G-02
MH TY M 3X3
STA 1114+51.07
87.04' LT (30WBML)
- (D) F-G-03
MH TY M 3X3
STA 17+79.96
9.69' RT (RMP30)
- (E) F-G-04
DI - (TY C-2 GR) (DAL)
STA 17+95.54
17.57' RT (RMP30)
- (F) F-G-08
RGI (TY II)-08(15-FT)
STA 17+10.14
10.89LT (RMP30)
- (G) F-G-11
DI - (TY C-2 GR) (DAL)
STA 17+80.00
34.50' LT (RMP30)
- (Z) F-D-OUT
SYSTEM F-D OUTFALL
STA 5072+77.00
52.63' RT (35HOV)

RELEASED FOR CONSTRUCTION

By Alyssa Moss at 12:27 pm, Mar 27, 2015

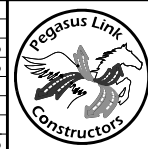
Pegasus Link Constructors



P. Sri Lakshmi 3/6/2015

Texas Department of Transportation
© 2015

NO.	ISSUE RECORD DESCRIPTION	DATE
0	RFC	10/10/2013
1	NDC 00049	12/20/2013
2	NDC 00064	03/04/2014
3	NDC 00082	04/21/2014
4	NDC 00126	07/15/2014
5	NDC 00170	03/06/2015



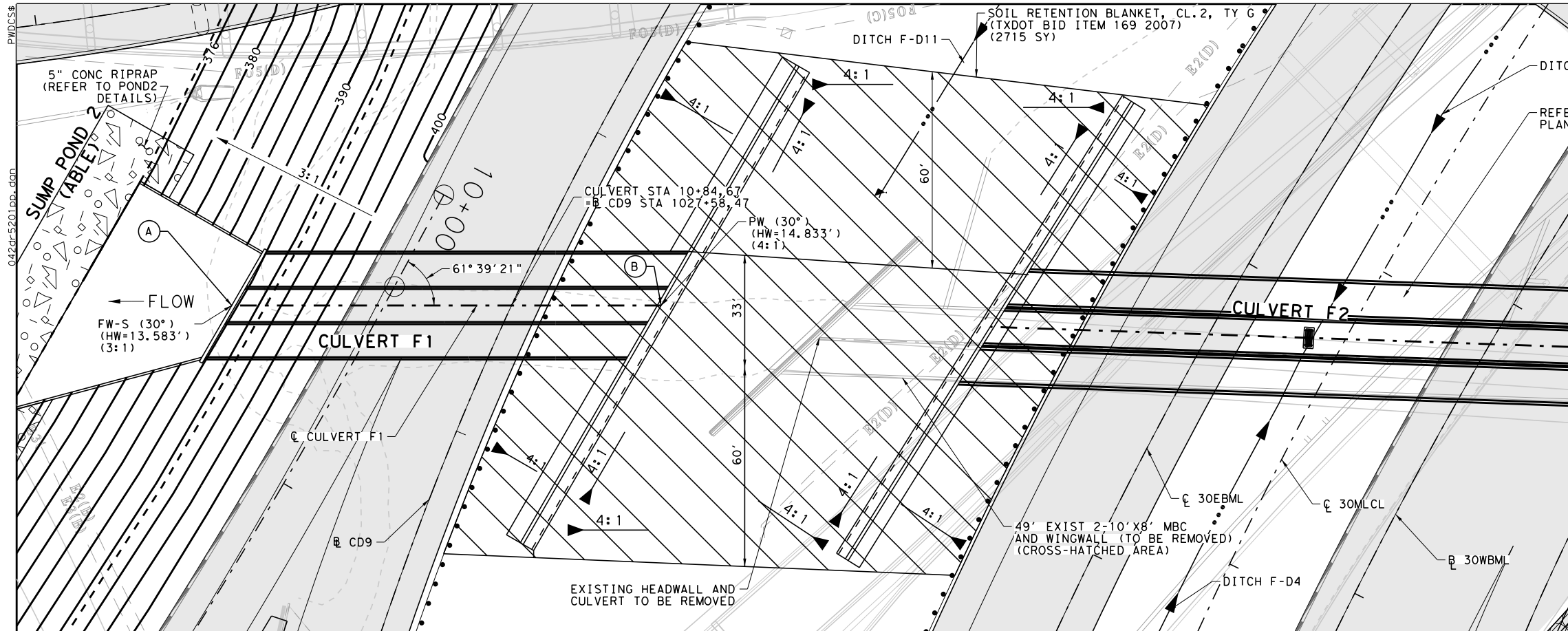
Pegasus Link Constructors, LLC

AECOM AECOM Technical Services, Inc. F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

**HORSESHOE PROJECT
DRAINAGE PLAN
(30EBML) STA 1108+00 TO STA 1119+00**

FILE NAME:
042DR5105PLN
CONTROL:
ECP0DR6897
DESIGN PACKAGE:
RFC
SHEET:
05 OF 05

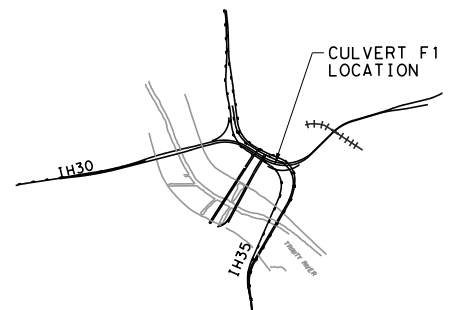
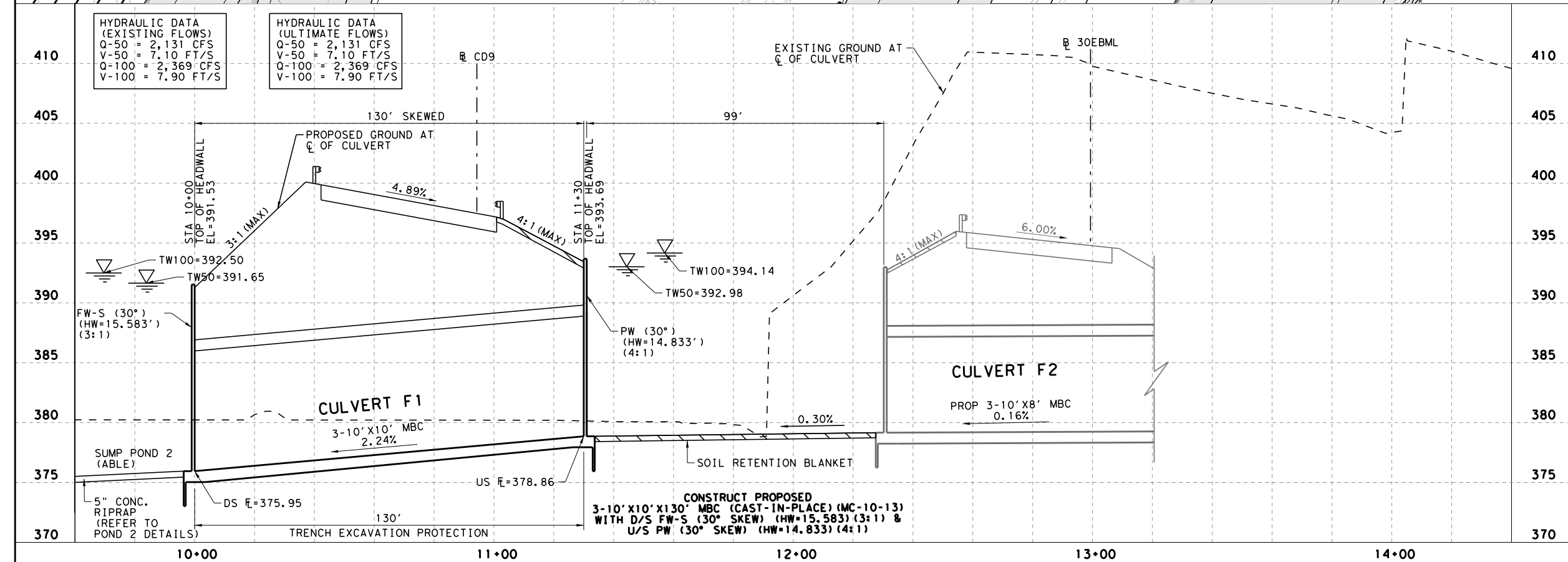
DESIGNED SP	FED. RD. DIST. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
6	(SEE TITLE SHEET)		IH 30
DRAWN BZ	STATE	DISTRICT	COUNTY
SV	TEXAS	DAL	DALLAS
CHECKED SV	SECTION	JOB	
SV	1068	04	116
			DR5105



- (A) CULVERT F1 STA 10+00.00 =
CD9 STA 1027+91.49, 77.50' RT
- (B) CULVERT F1 STA 11+30.00 =
CD9 STA 1027+38.65, 40.95' LT

NOTES:

- ALL EXISTING STRUCTURE ELEVATIONS ARE TO BE FIELD VERIFIED.
- THE CONTRACTOR SHALL POT-HOLE EXISTING UTILITIES PRIOR TO CONSTRUCTION TO VERIFY DEPTHS AND LOCATIONS OF UTILITIES.
- CONTRACTOR MAY DOWEL INTO THE PROPOSED CULVERT TO ALLOW FOR PHASED CONSTRUCTION. DOWEL SIZE AND SPACING SHALL BE IN ACCORDANCE WITH THE RE-BAR SIZES SHOWN IN MC-MD. DOWEL DEPTHS SHALL BE EQUAL TO OR GREATER THAN THE RE-BAR LAP LENGTHS AS DESCRIBED IN MC-MD.
- DRAINAGE AREA TO CULVERT IS FULLY DEVELOPED. EXISTING DISCHARGES EQUAL ULTIMATE DISCHARGES.



RELEASED FOR CONSTRUCTION

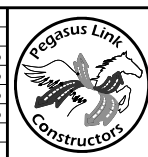
By Beth Blair at 3:08 pm, Oct 22, 2013

Pegasus Link Constructors



Texas Department of Transportation
© 2013

NO.	ISSUE RECORD DESCRIPTION	DATE
A	INTERIM	05/01/2013
B	REVISED	07/05/2013
C	FINAL	09/09/2013
D	RFC	10/10/2013



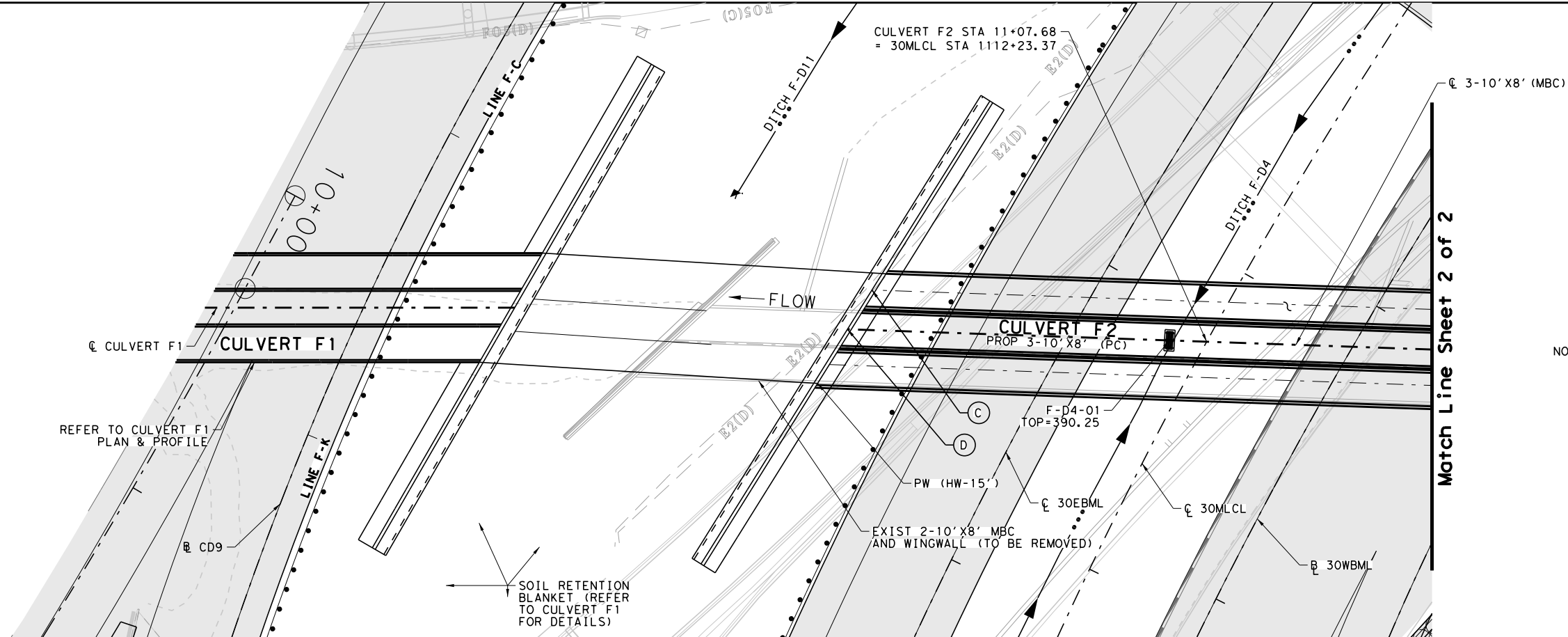
Pegasus Link Constructors, LLC

AECOM AECOM Technical Services, Inc. F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

**HORSESHOE PROJECT
CULVERT PLAN & PROFILE
CULVERT F1 CD9 STA 1027+57.49**

FILE NAME:
042DR5201PP
CONTROL:
ECP0DR6897
DESIGN PACKAGE:
RFC
SHEET:
01 OF 01

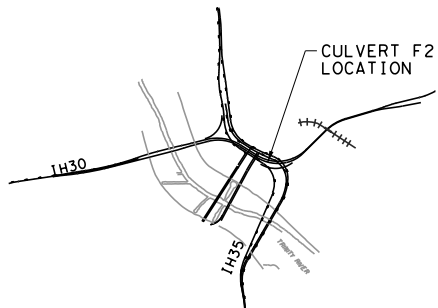
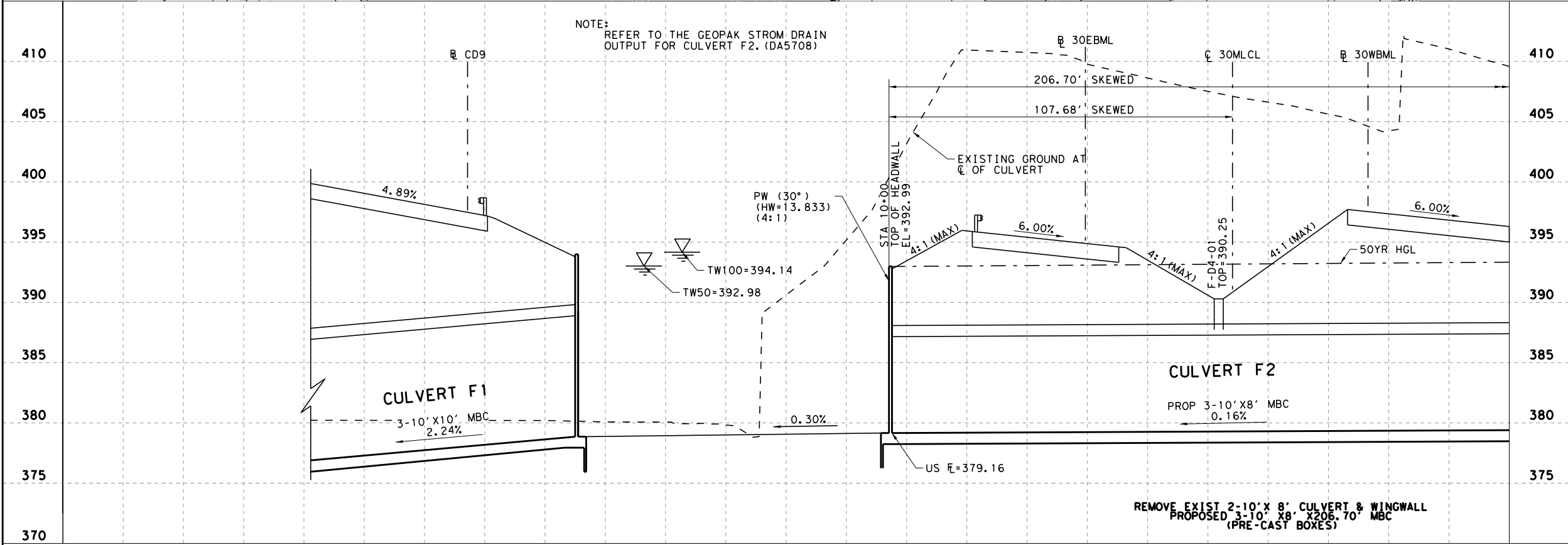
DESIGNED MB	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
6	(SEE TITLE SHEET)		1H 30
DRAWN BZ	STATE	DISTRICT	COUNTY
TEXAS	DAL	DALLAS	
CHECKED FG	SECTION	JOB	
1068	04	116	
APPROVED MB			
			DR5201



Match Line Sheet 2 of 2

- (C) 30MLCL STA 1112+55.94, 95.73' RT
(D) CULVERT F2 STA 10+00.00 = 30MLCL STA 1112+68.88, 96.87' RT

- NOTES:
- ALL EXISTING STRUCTURE ELEVATIONS ARE TO BE FIELD VERIFIED.
 - THE CONTRACTOR SHALL POT-HOLE EXISTING UTILITIES PRIOR TO CONSTRUCTION TO VERIFY DEPTHS AND LOCATIONS OF UTILITIES.
 - CONTRACTOR MAY DOWEL INTO THE PROPOSED CULVERT TO ALLOW FOR PHASED CONSTRUCTION. DOWEL SIZE AND SPACING SHALL BE IN ACCORDANCE WITH THE RE-BAR SIZES SHOWN IN MC-MD. DOWEL DEPTHS SHALL BE EQUAL TO OR GREATER THAN THE RE-BAR LAP LENGTHS AS DESCRIBED IN MC-MD.
 - DRAINAGE AREA TO CULVERT IS FULLY DEVELOPED. EXISTING DISCHARGES EQUAL ULTIMATE DISCHARGES.



RELEASED FOR CONSTRUCTION

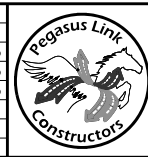
By Beth Blair at 3:08 pm, Oct 22, 2013

Pegasus Link Constructors



Texas Department of Transportation
© 2013

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
O	RFC	10/10/2013



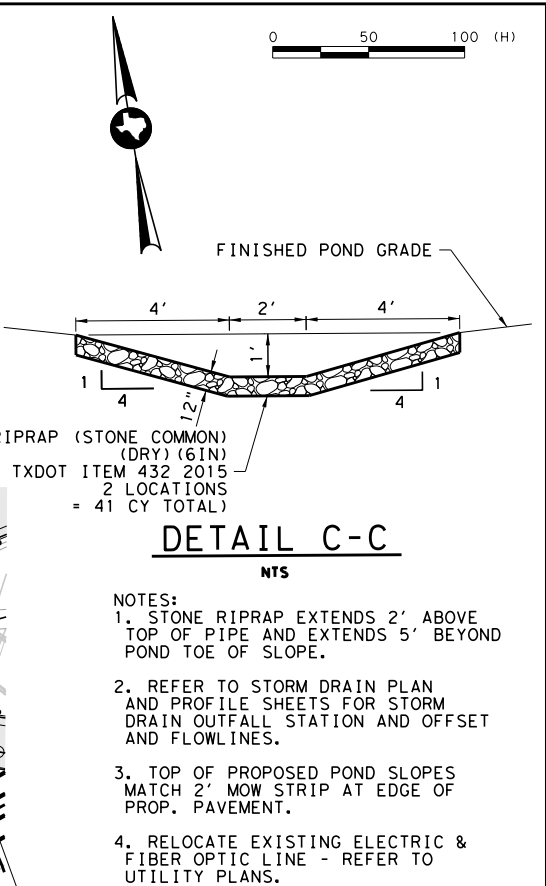
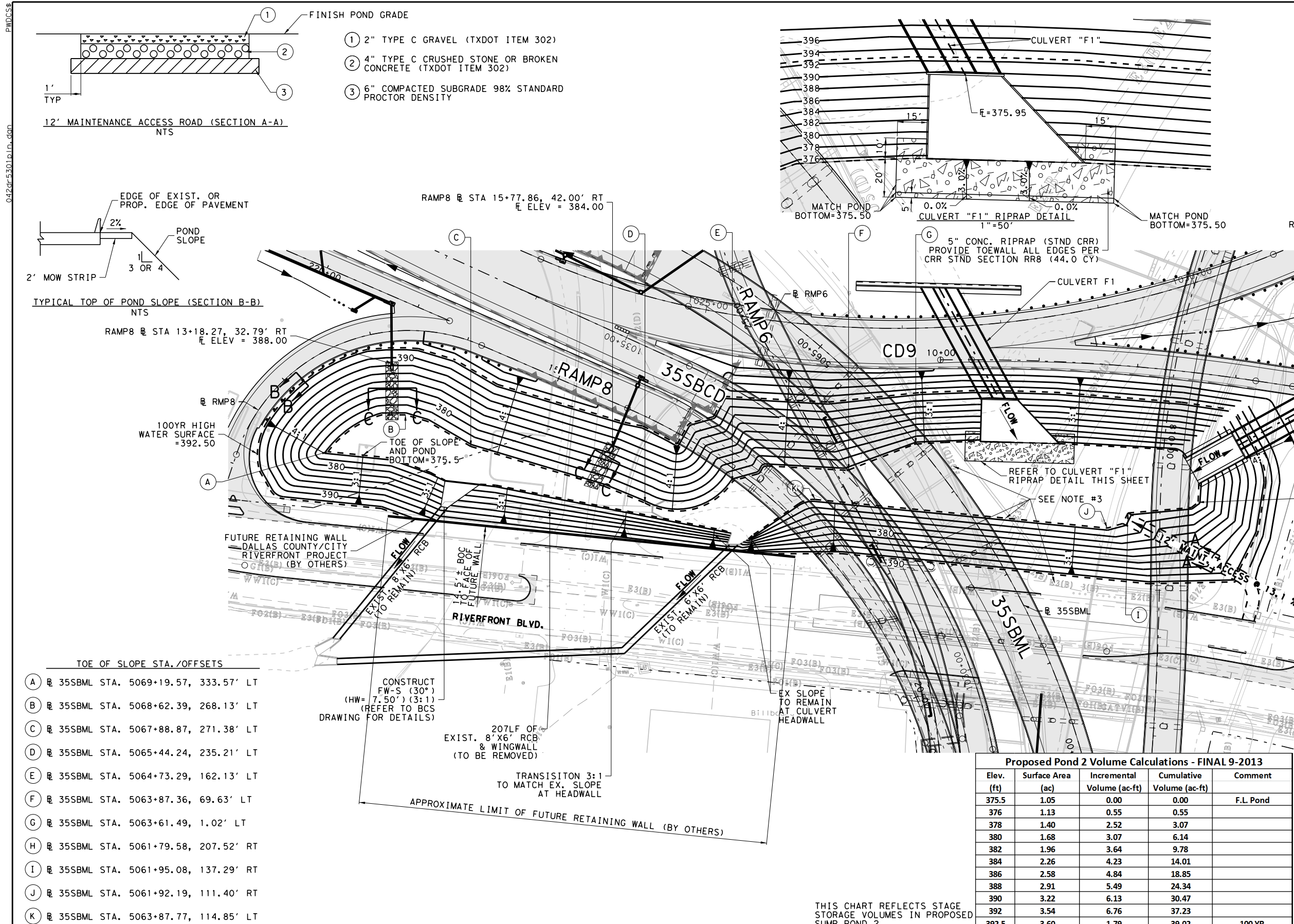
Pegasus Link Constructors, LLC

AECOM AECOM Technical Services, Inc. F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
CULVERT PLAN & PROFILE
CULVERT F2 30MLCL STA 1112+11.72
(1 OF 2)

FILE NAME:
042DR5202PP
CONTROL:
ECP0DR6897
DESIGN PACKAGE:
RFC
SHEET:
01 OF 02

DESIGNED MB	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
6	(SEE TITLE SHEET)	1H 30	
DRAWN CM	STATE	DISTRICT	COUNTY
TEXAS	DAL	DALLAS	
CHECKED FG	CONTROL	SECTION	JOB
1068	04	116	
APPROVED MB			DR5202



RELEASED FOR CONSTRUCTION

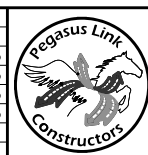
By Beth Blair at 3:09 pm, Oct 22, 2013

Pegasus Link Constructors



Texas Department of Transportation
© 2013

ISSUE RECORD		
NO.	DESCRIPTION	DATE
A	INTERIM	05/01/2013
B	REVISED	07/05/2013
C	FINAL	09/09/2013
O	RFC	10/10/2013



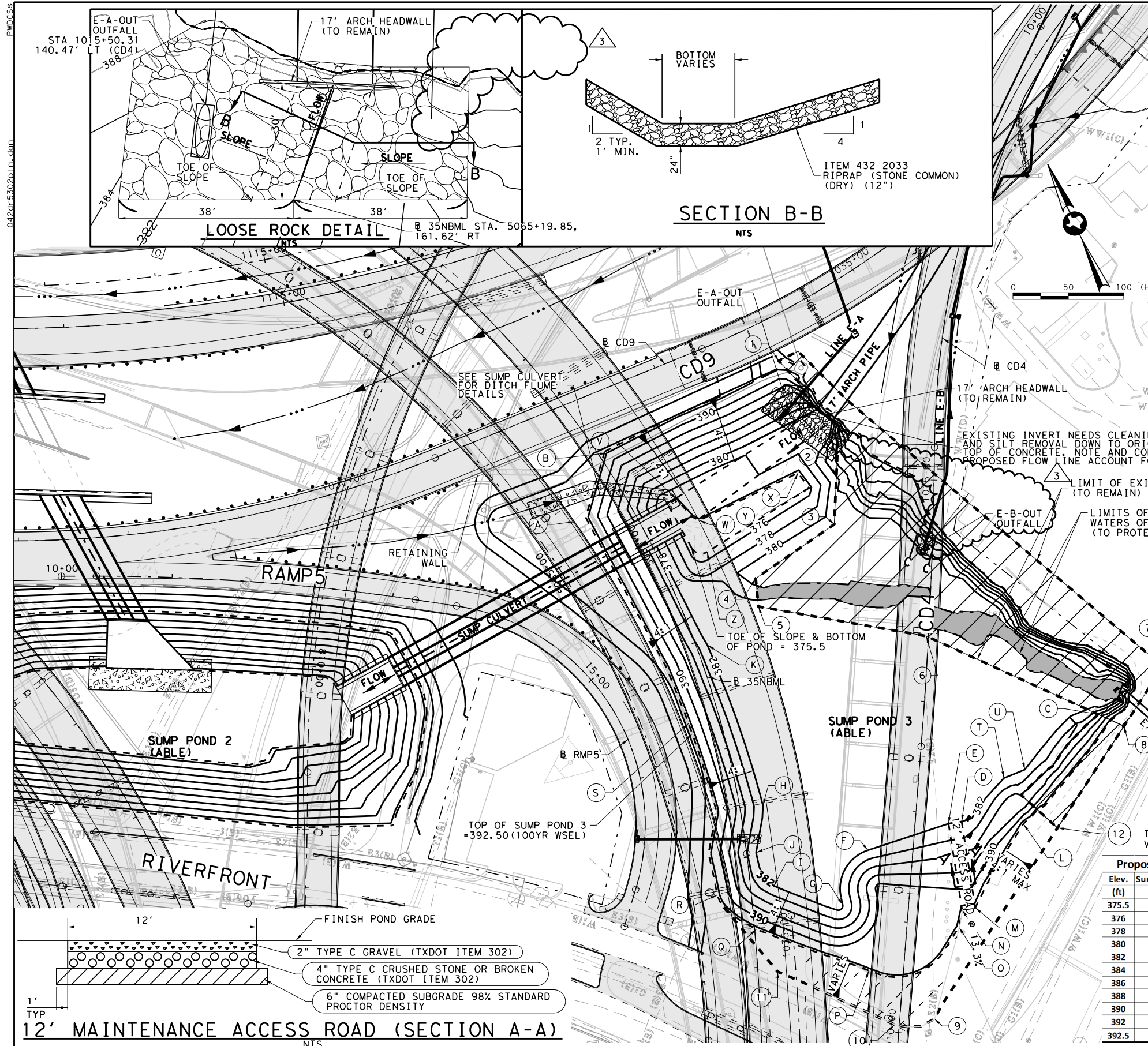
Pegasus Link Constructors, LLC

AECOM AECOM Technical Services, Inc. F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT DRAINAGE PLAN SUMP POND 2

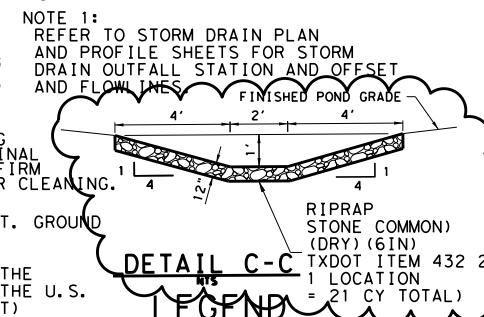
FILE NAME:
042DR5301PLN
CONTROL:
ECP0DR6897
DESIGN PACKAGE:
RFC
SHEET:
01 OF 01

DESIGNED MB	FED. RD. DIST. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
6	(SEE TITLE SHEET)		IH 30
DRAWN BZ	STATE	DISTRICT	COUNTY
TEXAS	DAL	DALLAS	
CHECKED FG	SECTION	JOB	
1068	04	116	
APPROVED MB			DR5301



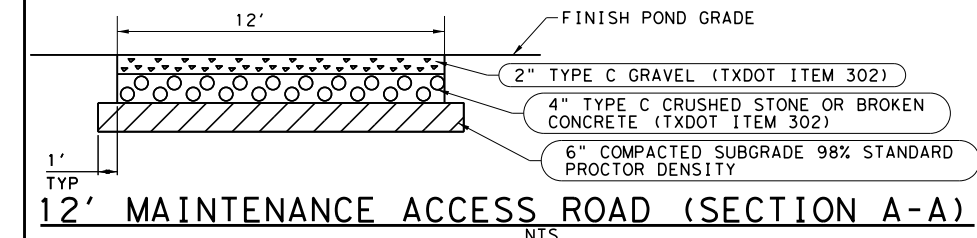
LIMIT OF CONSTRUCTION STA./OFFSETS	
1	35NBML STA. 5065+74.96, 182.39' RT
2	35NBML STA. 5064+80.11, 177.51' RT
3	35NBML STA. 5064+46.98, 156.82' RT
4	35NBML STA. 5064+32.20, 72.47' RT
5	35NBML STA. 5064+09.58, 65.22' RT
6	35NBML STA. 5063+45.19, 199.96' RT
7	35NBML STA. 5062+85.65, 399.66' RT
8	35NBML STA. 5062+54.19, 354.36' RT
9	35NBML STA. 5060+47.16, 156.78' RT
10	35NBML STA. 5060+43.50, 120.75' RT
11	35NBML STA. 5060+95.00, 17.78' RT
12	35NBML STA. 5061+93.25, 280.81' RT

TOE OR TOP OF SLOPE STA./OFFSETS	
A	35NBML STA. 5065+50.16, 50.38' LT
B	35NBML STA. 5065+88.27, 6.68' LT
C	35NBML STA. 5062+64.84, 333.20' RT
D	35NBML STA. 5062+07.25, 196.12' RT
E	35NBML STA. 5062+06.97, 184.12' RT
F	35NBML STA. 5061+93.44, 108.86' RT
G	35NBML STA. 5061+49.08, 81.07' RT
H	35NBML STA. 5062+43.56, 20.86' RT
I	35NBML STA. 5061+72.72, 21.09' RT
J	35NBML STA. 5062+03.13, 8.45' RT
K	35NBML STA. 5063+94.01, 9.78' LT
L	35NBML STA. 5061+99.75, 251.16' RT
M	35NBML STA. 5061+36.49, 200.04' RT
N	35NBML STA. 5061+35.75, 188.07' RT
O	35NBML STA. 5061+21.77, 183.84' RT
P	35NBML STA. 5060+90.85, 99.99' RT
Q	35NBML STA. 5061+34.49, 1.46' RT
R	35NBML STA. 5061+68.86, 30.66' LT
S	35NBML STA. 5063+31.16, 28.24' LT
T	35NBML STA. 5062+33.76, 239.50' RT
U	35NBML STA. 5062+37.21, 259.33' RT
V	35NBML STA. 5065+21.67, 39.26' RT
W	35NBML STA. 5064+95.57, 48.00' RT
X	35NBML STA. 5064+94.36, 147.26' RT
Y	35NBML STA. 5064+80.26, 150.19' RT
Z	35NBML STA. 5064+69.31, 42.21' RT



- LEGEND**
- REMOVE EXISTING BRIDGE ABUTMENT FILL (APPROX. LIMITS)
 - EXISTING GROUND (TO REMAIN)
 - LIMIT OF WATERS OF THE US (W.O.U.S.)
 - TO PROTECT W.O.U.S., CONTRACTOR TO LIMIT GRADING AND EQUIPMENT OPERATION TO MINIMUM FROM W.O.U.S.
 - NOTE: EXIST 9'x8' BC IS TO BE UPGRADED BY CITY OF DALLAS TO BRIDGE (BY OTHERS).

Proposed Pond 3 Volume Calculations				
Elev. (ft)	Surface Area (ac)	Incremental Volume (ac-ft)	Cumulative Volume (ac-ft)	Comment
375.5	0.08	0.00	0.00	F.L. Pond
376	0.14	0.06	0.06	
378	0.26	0.40	0.46	
380	0.53	0.79	1.25	
382	2.15	2.68	3.93	
384	2.38	4.53	8.46	
386	2.61	4.99	13.45	
388	2.85	5.46	18.91	
390	3.08	5.93	24.84	
392	3.47	6.55	31.39	
392.5	3.56	1.76	33.14	100 YR



ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
O	RFC	10/10/2013
1	NDC 00082	04/21/2014
2	NDC 00101	05/23/2014
3	NDC 00125	07/02/2014

Pegasus Link Constructors, LLC

AECOM AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
DRAINAGE PLAN
SUMP POND 3

FILE NAME:	042DR5302PLN
CONTROL:	ECP0DR6897
DESIGN PACKAGE:	RFC
SHEET:	01 OF 01

DESIGNED	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
MB	6	(SEE TITLE SHEET)	1H 30
DRAWN	STATE	DISTRICT	COUNTY
BZ	TEXAS	DAL	DALLAS
CHECKED	SECTION	JOB	
SP	1068	04	116
APPROVED			
SV			

RELEASED FOR CONSTRUCTION

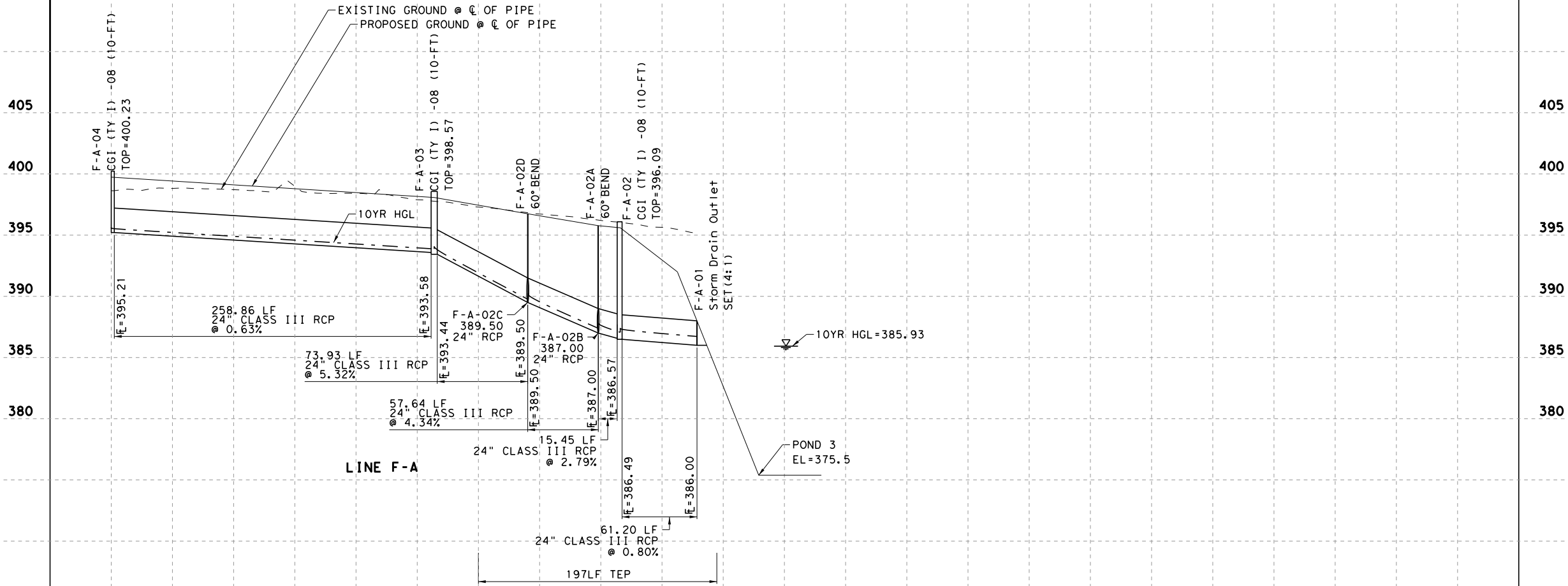
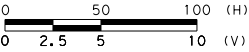
By Beth Blair at 10:06 am, Jul 23, 2014

Pegasus Link Constructors



Texas Department of Transportation
© 2014

042dr5401prf_fa.dgn
P:\pdc\ss



RELEASED FOR CONSTRUCTION

By Beth Blair at 3:09 pm, Oct 22, 2013

Pegasus Link Constructors



Texas Department of Transportation
© 2013

ISSUE RECORD		
NO.	DESCRIPTION	DATE
A	INTERIM	05/01/2013
B	REVISED	07/05/2013
C	FINAL	09/09/2013
O	RFC	10/10/2013



Pegasus Link Constructors, LLC



AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

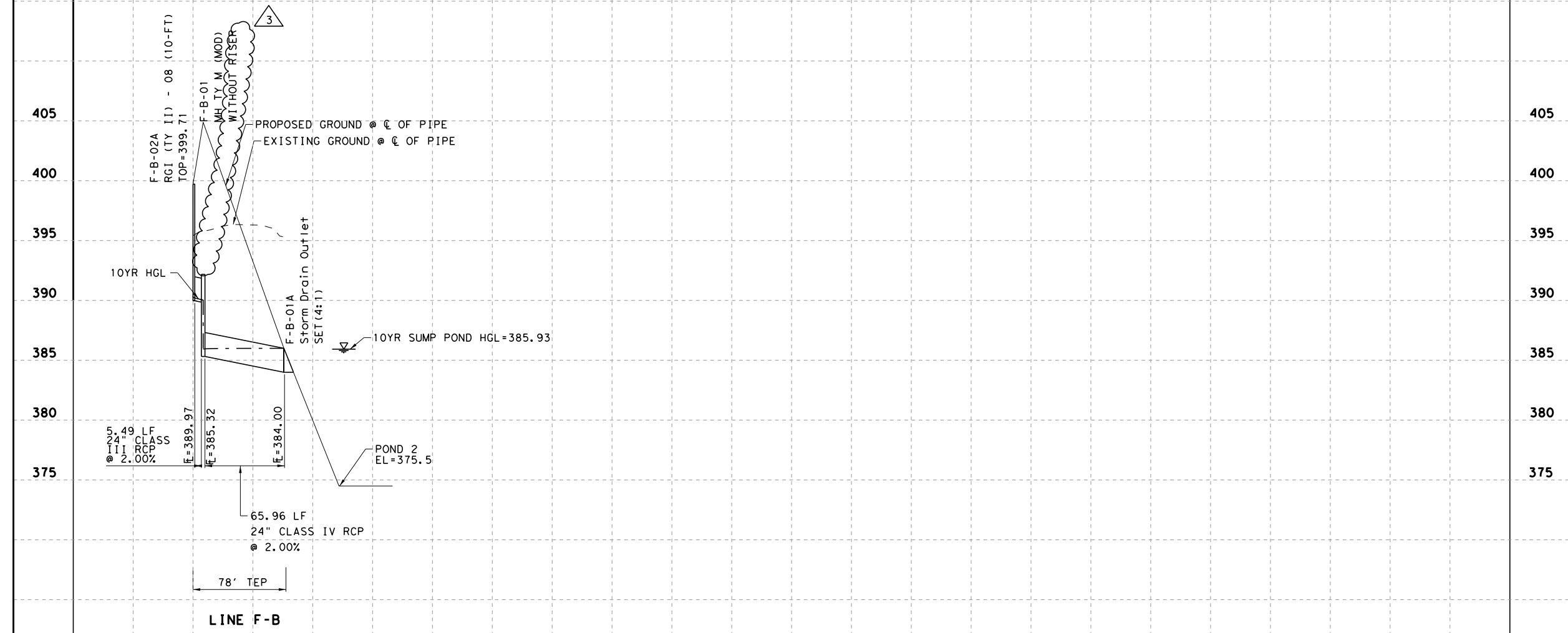
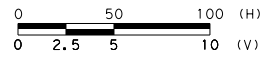
**HORSESHOE PROJECT
DRAINAGE PROFILE
STORM SEWER PROFILES
SYSTEM F-A**

FILE NAME:
042DR5401PRF_FA
CONTROL:
ECP0DR6897
DESIGN PACKAGE:
RFC
SHEET:
01 OF 01

DESIGNED	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
SP	6	(SEE TITLE SHEET)		IH 30
DRAWN	STATE	DISTRICT	COUNTY	SHEET NO.
BZ	TEXAS	DAL	DALLAS	DR5401
CHECKED	CONTROL	SECTION	JOB	
FG				
APPROVED	SP	1068	04 116	

042dr5402prf_fb.dgn

PWDcss



RELEASED FOR CONSTRUCTION

By Beth Blair at 1:22 pm, May 12, 2014

Pegasus Link Constructors



Texas Department of Transportation
© 2014

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
O	RFC	10/10/2013
1	NDC 00049	12/20/2013
2	NDC 00064	03/04/2014
3	NDC 00082	04/21/2014



Pegasus Link Constructors, LLC

AECOM
AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

**HORSESHOE PROJECT
DRAINAGE PROFILE
SYSTEM F-B**

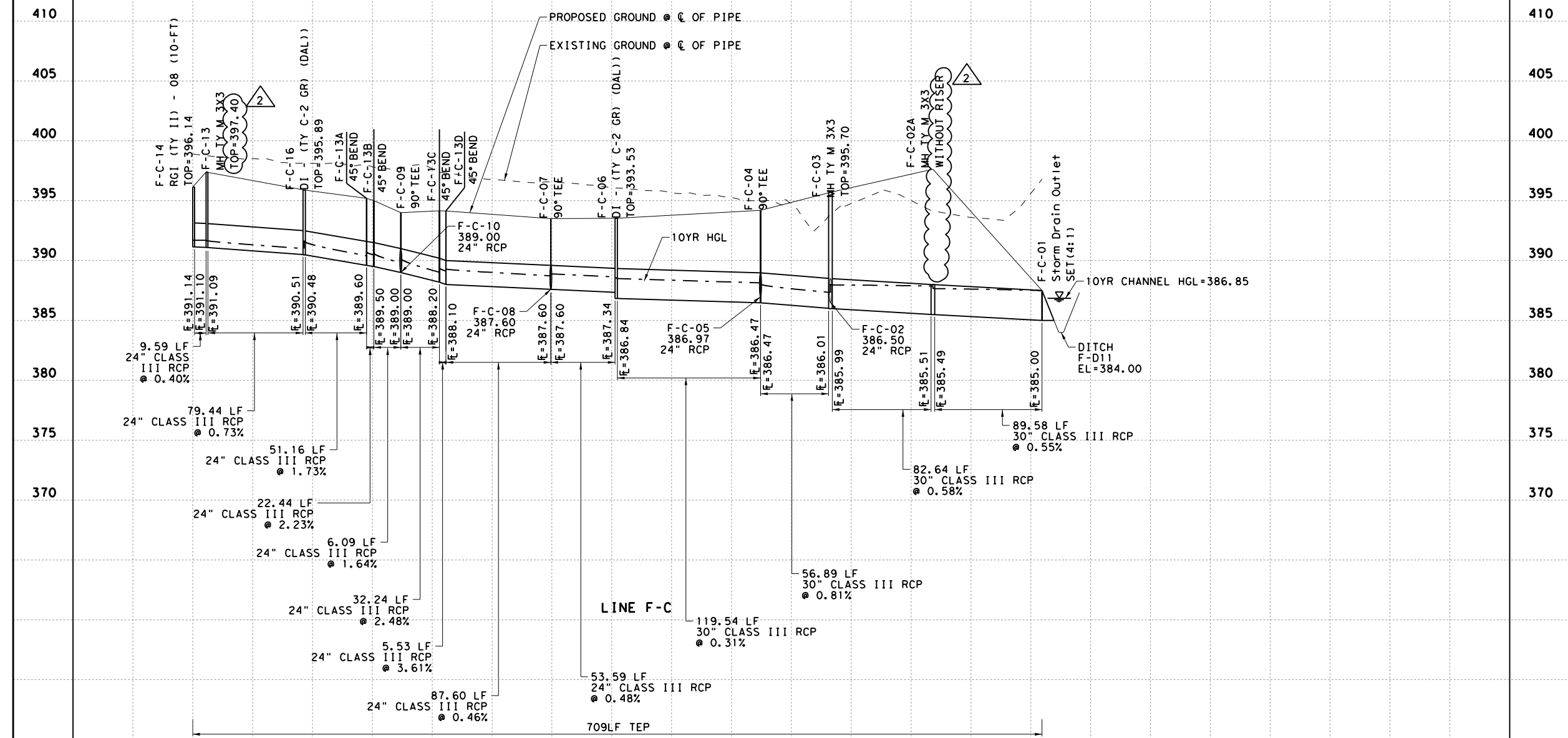
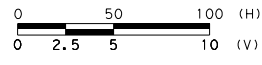
FILE NAME:
042DR5402PRF_FB
CONTROL:
ECP0DR6897
DESIGN PACKAGE:
RFC
SHEET:
01 OF 01

DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.			HIGHWAY NO.
DRAWN BZ	6	(SEE TITLE SHEET)			IH 30
CHECKED FG	STATE	DISTRICT	COUNTY	SHEET NO.	
APPROVED SP	TEXAS	DAL	DALLAS	DR5402	
	CONTROL	SECTION	JOB		
	1068	04	116		

4/17/2014 12:08:31 AM

\\pwc\css\pwc\swrk\21302\19805_63\042dr5402prf_fb.dgn

042dr5403prf_fc.dgn
zarbockb



RELEASED FOR CONSTRUCTION

By Beth Blair at 1:22 pm, May 12, 2014

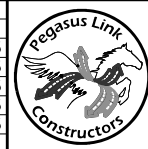
Pegasus Link Constructors



P. Sri Lakshmi 4/21/2014



ISSUE RECORD		
NO.	DESCRIPTION	DATE
A	INTERIM	05/01/2013
B	REVISED	07/05/2013
C	FINAL	09/09/2013
0	RFC	10/10/2013
1	NDC 00049	12/20/2013
2	NDC 00082	04/21/2014



Pegasus Link Constructors, LLC

AECOM AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

**HORSESHOE PROJECT
DRAINAGE PROFILE
SYSTEM F-C**

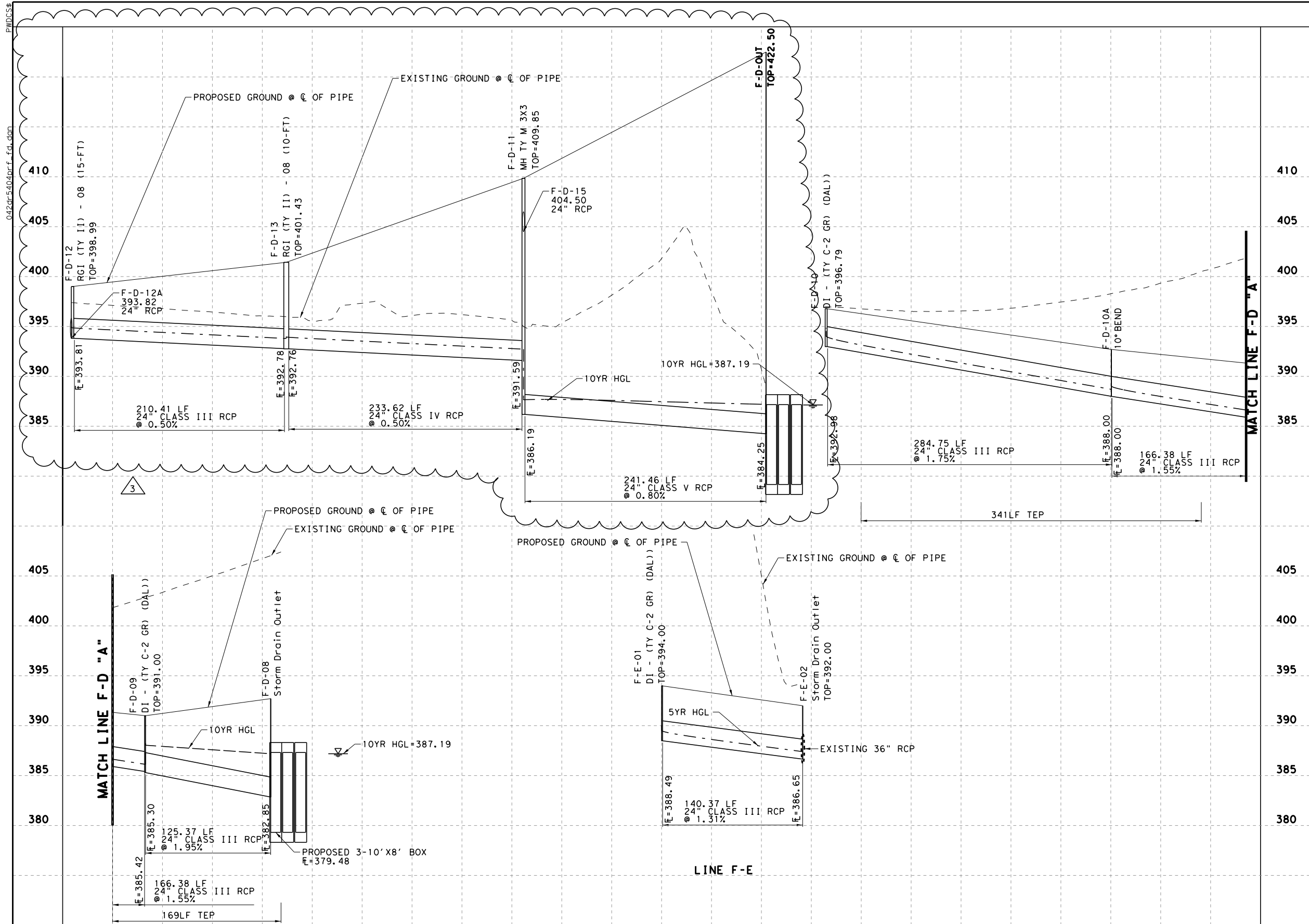
FILE NAME:
042DR5403PRF_FC
CONTROL:
ECP0DR6897
DESIGN PACKAGE:
RFC
SHEET:
01 OF 01

DESIGNED	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.			HIGHWAY NO.
SP	6	(SEE TITLE SHEET)			IH 30
DRAWN	STATE	DISTRICT	COUNTY	SHEET NO.	
BZ	TEXAS	DAL	DALLAS	DR5403	
CHECKED	CONTROL	SECTION	JOB		
FG	SP	1068	04	116	
APPROVED					
SP					

042dr5404prf_fd.dgn

PWDGSS

0 50 100 (H)
0 2.5 5 10 (V)



RELEASED FOR CONSTRUCTION

By Alyssa Moss at 12:27 pm, Mar 27, 2015

Pegasus Link Constructors



P. Srilakshmi 3/6/2015

Texas Department of Transportation
© 2015

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
0	RFC	10/10/2013
1	NDC 00049	12/20/2013
2	NDC 00082	04/21/2014
3	NDC 00170	03/06/2015



Pegasus Link Constructors, LLC
AECOM
AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT DRAINAGE PROFILE SYSTEM F-D AND F-E

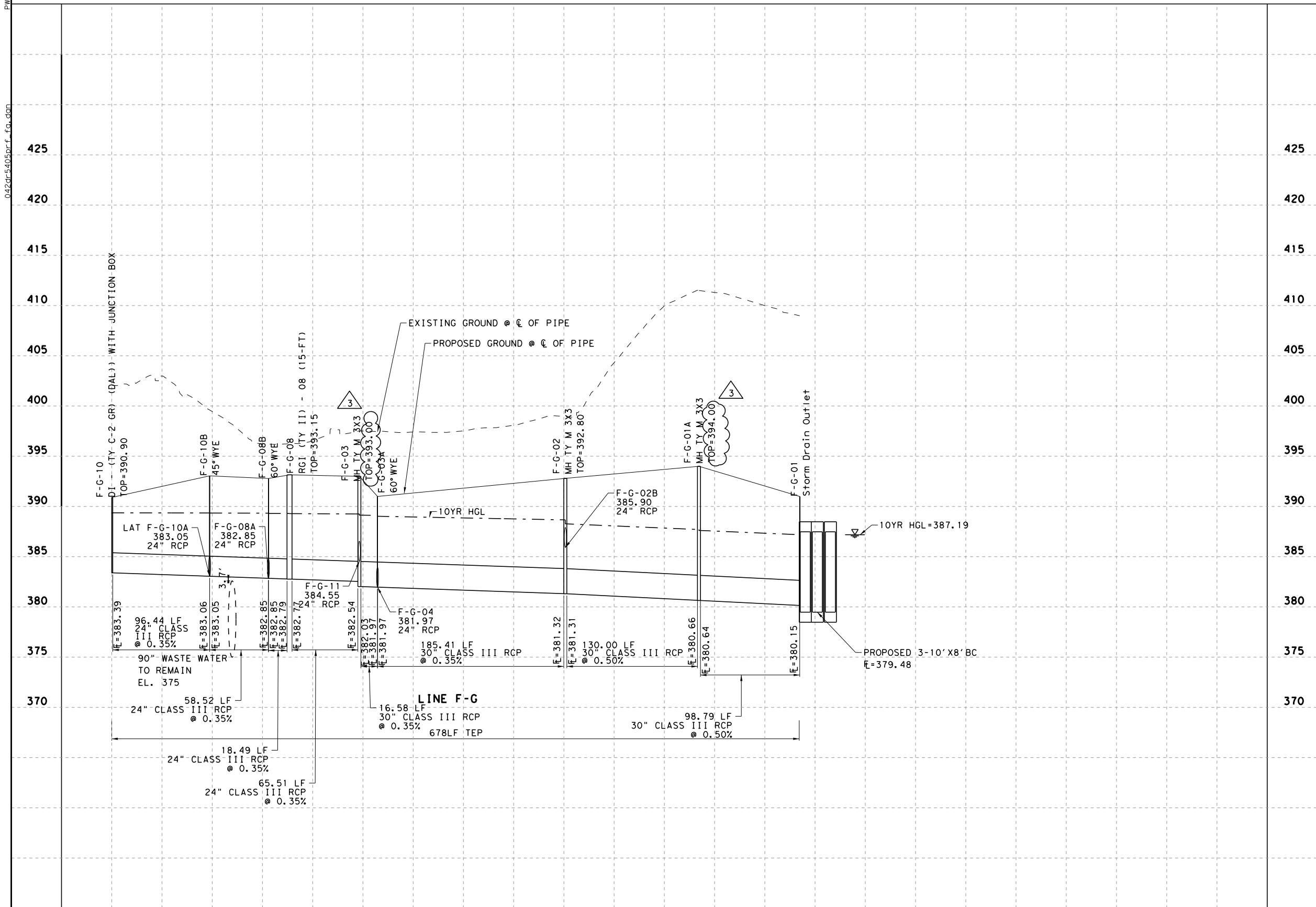
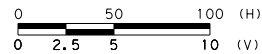
FILE NAME:
042DR5404PRF_FD
CONTROL:
ECP0DR6897
DESIGN PACKAGE:
RFC
SHEET:
01 OF 01

DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.			HIGHWAY NO.
6	6	(SEE TITLE SHEET)			IH 30
DRAWN	STATE	DISTRICT	COUNTY		SHEET NO.
BZ	TEXAS	DAL	DALLAS		DR5404
CHECKED	CONTROL	SECTION	JOB		
FG	1068	04	116		
APPROVED SP					

3/6/2015 7:27:29 PM
ip1ot-drvm.plt
\\pwcgs\pwcgsr\K39312\19805_67\042dr5404prf_fd.dgn

042dr5405prf_fg.dgn

PWDGSS



RELEASED FOR CONSTRUCTION

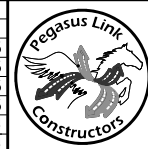
By Beth Blair at 1:22 pm, May 12, 2014

Pegasus Link Constructors



Texas Department of Transportation
© 2014

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
O	RFC	10/10/2013
1	NDC 00049	12/20/2013
2	NDC 00064	03/04/2014
3	NDC 00082	04/21/2014



Pegasus Link Constructors, LLC

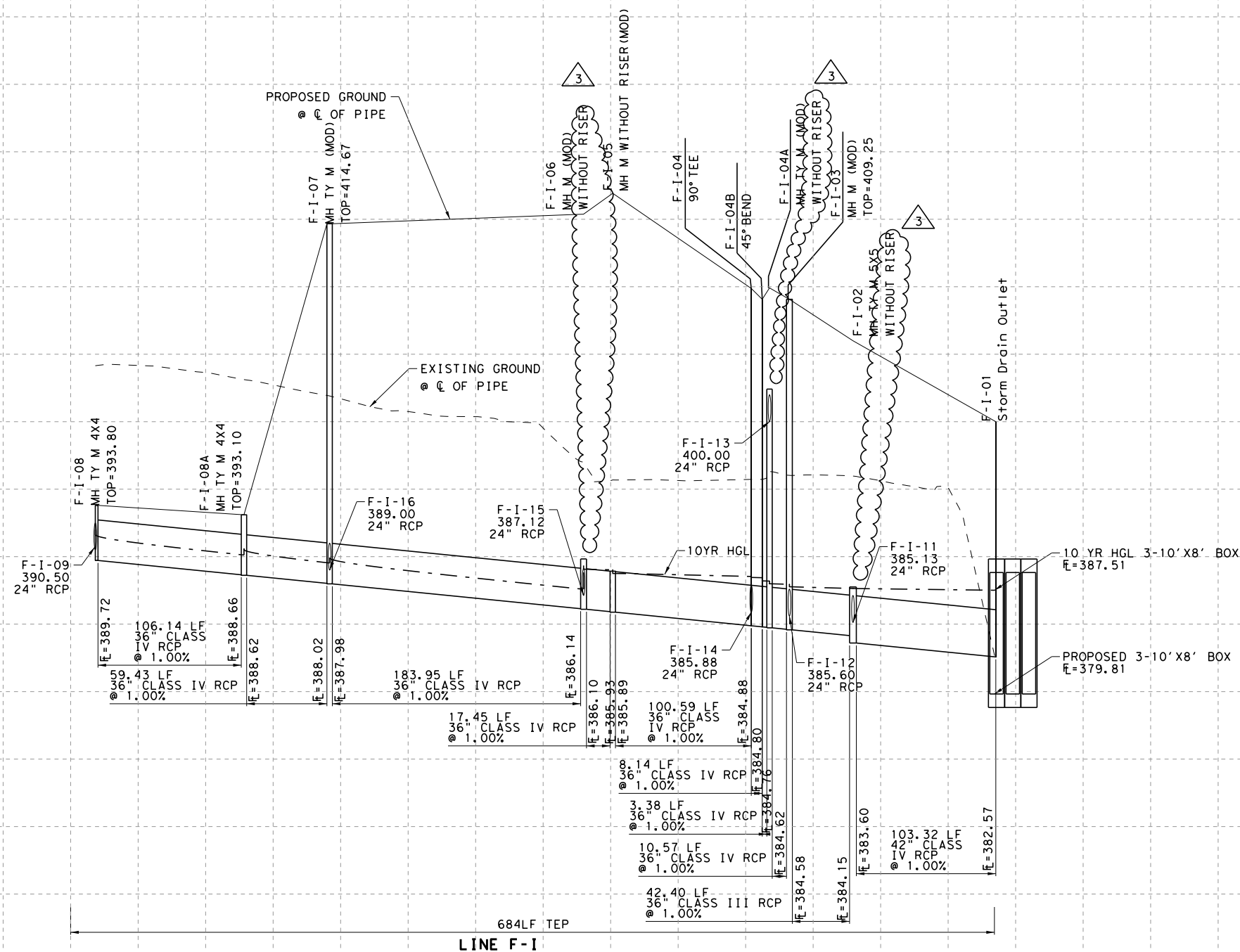
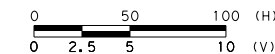
AECOM AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

**HORSESHOE PROJECT
DRAINAGE PROFILE
SYSTEM F-G**

FILE NAME:
042DR5405PRF_FG
CONTROL:
ECP0DR6897
DESIGN PACKAGE:
RFC
SHEET:
01 OF 01

DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.			HIGHWAY NO.
BZ	6	(SEE TITLE SHEET)			IH 30
CHECKED FG	STATE	DISTRICT	COUNTY	SHEET NO.	
FG	TEXAS	DAL	DALLAS	DR5405	
APPROVED SP	CONTROL	SECTION	JOB		
	1068	04	116		

4/17/2014 12:05:59 AM
ip1otdrvm.plt
\\pwc\pwc\dwg\21302\19805_70\042dr5405prf_fg.dgn



RELEASED FOR CONSTRUCTION

By Beth Blair at 1:22 pm, May 12, 2014

Pegasus Link Constructors

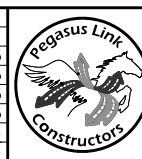


P. Sri Lathshmi 4/21/2014



★[®] *Texas Department of Transportation*
(C) 2014

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/03/2013
O	RFC	10/10/2013
1	NDC 00049	12/20/2013
2	NDC 00064	03/04/2014
3	NDC 00082	04/21/2014



Pegasus Link Constructors,LLC



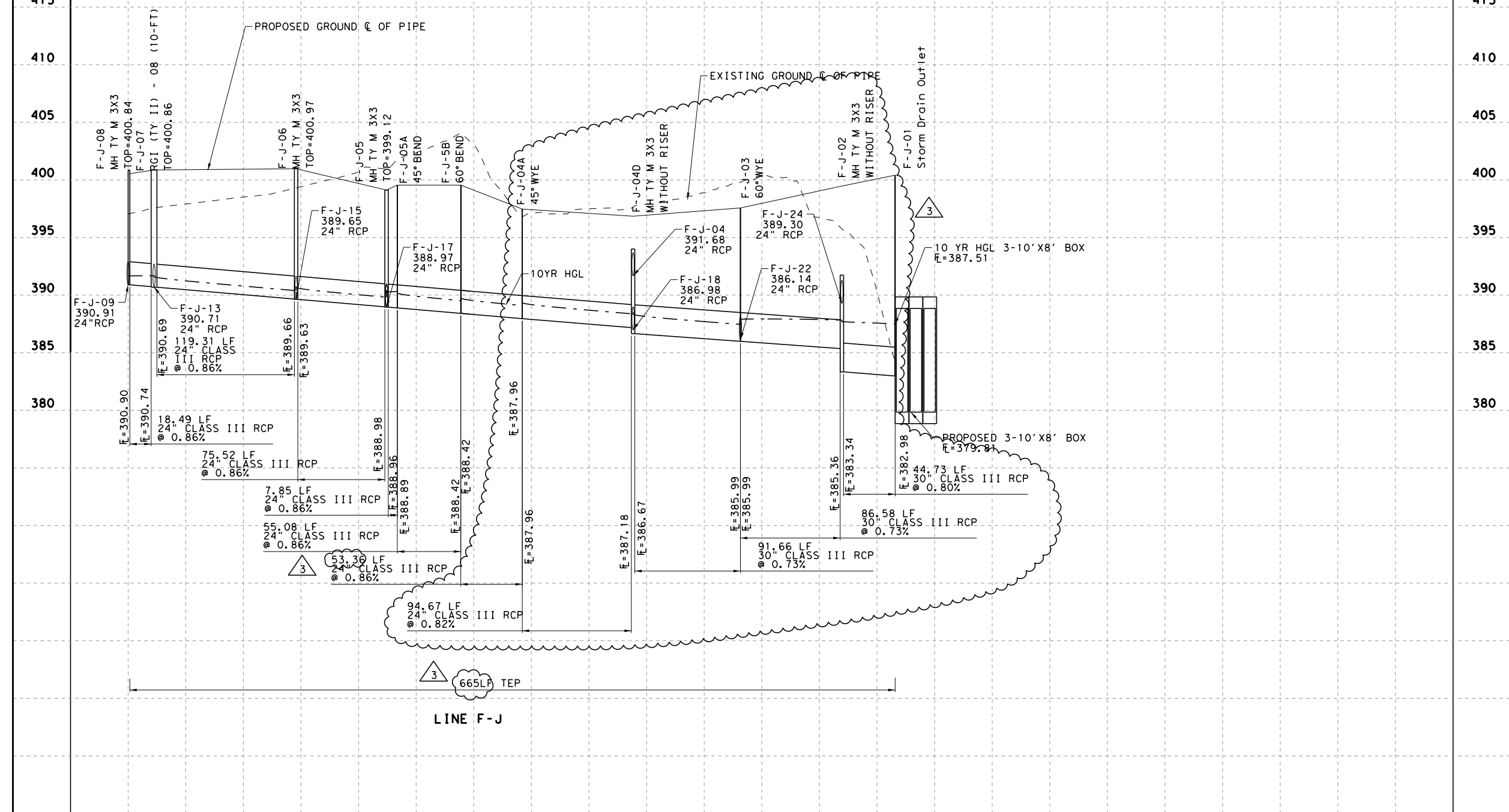
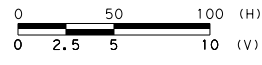
AECOM Technical Services, Inc.- F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
DRAINAGE PROFILE
SYSYTEM F-I

FILE NAME:	042DR5406PRF_FI
CONTROL:	ECP0DR6897
DESIGN PACKAGE:	RFC
SHEET:	01 OF 01

DESIGNED	FED. RD. DIST. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
SP	6	(SEE TITLE SHEET)	1H 30
DRAWN	STATE	DISTRICT	COUNTY
BZ	TEXAS	DAL	DALLAS
CHECKED	CONTROL	SECTION	JOB
FG	1068	04	116
APPROVED	DR5406		
SP			

PWD055
042dr-5407prf-fj.dgn



RELEASED FOR CONSTRUCTION

By Beth Blair at 9:09 am, Jul 31, 2014

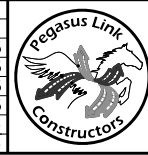
Pegasus Link Constructors



Vinnakota 7/15/2014

Texas Department of Transportation
© 2014

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
0	RFC	10/10/2013
1	NDC 00049	12/20/2013
2	NDC 00082	04/21/2014
3	NDC 00126	07/15/2014



Pegasus Link Constructors, LLC

AECOM AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

**HORSESHOE PROJECT
DRAINAGE PROFILE
SYSTEM F-J**

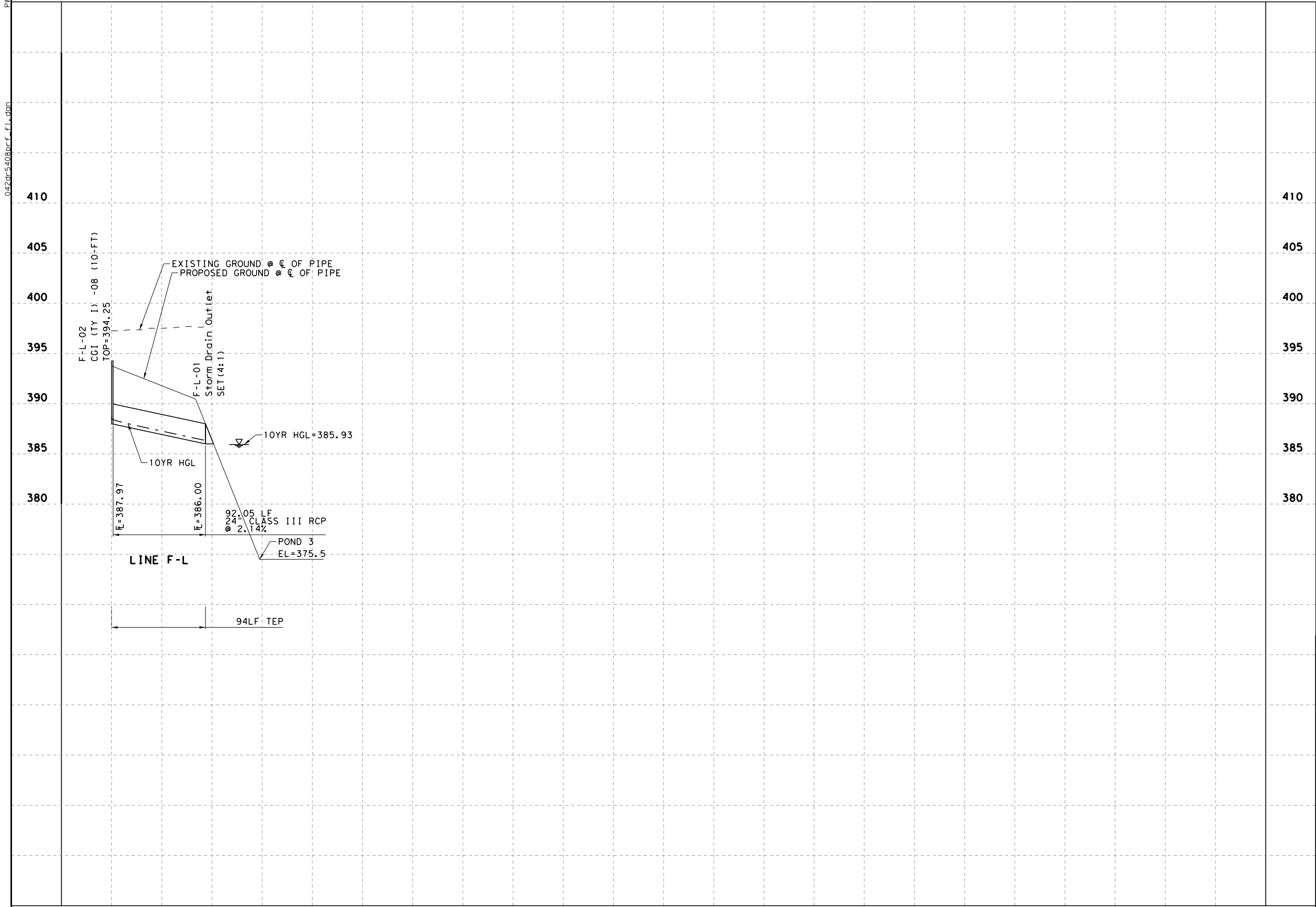
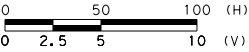
FILE NAME:
042DR5407PRF_FJ
CONTROL:
ECP0DR6897
DESIGN PACKAGE:
RFC
SHEET:
01 OF 01

DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.			HIGHWAY NO.
6	6	(SEE TITLE SHEET)			1H 30
DRAWN	STATE	DISTRICT	COUNTY	SHEET NO.	
BZ	TEXAS	DAL	DALLAS	DR5407	
CHECKED SP	CONTROL	SECTION	JOB		
SV	1068	04	116		

7/15/2014 7:22:56 PM
ip1ot-dr-vn.plt
\\pwc055\pwc055\K27719\19805_75\042dr-5407prf-fj.dgn

042dr5408prf_fl.dgn

PWDGSS



RELEASED FOR CONSTRUCTION

By Beth Blair at 3:09 pm, Oct 22, 2013

Pegasus Link Constructors



ISSUE RECORD		
NO.	DESCRIPTION	DATE
A	INTERIM	05/01/2013
B	REVISED	07/05/2013
C	FINAL	09/09/2013
D	RFC	10/10/2013



Pegasus Link Constructors, LLC

AECOM

AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
DRAINAGE PROFILE
SYSTEM F-L

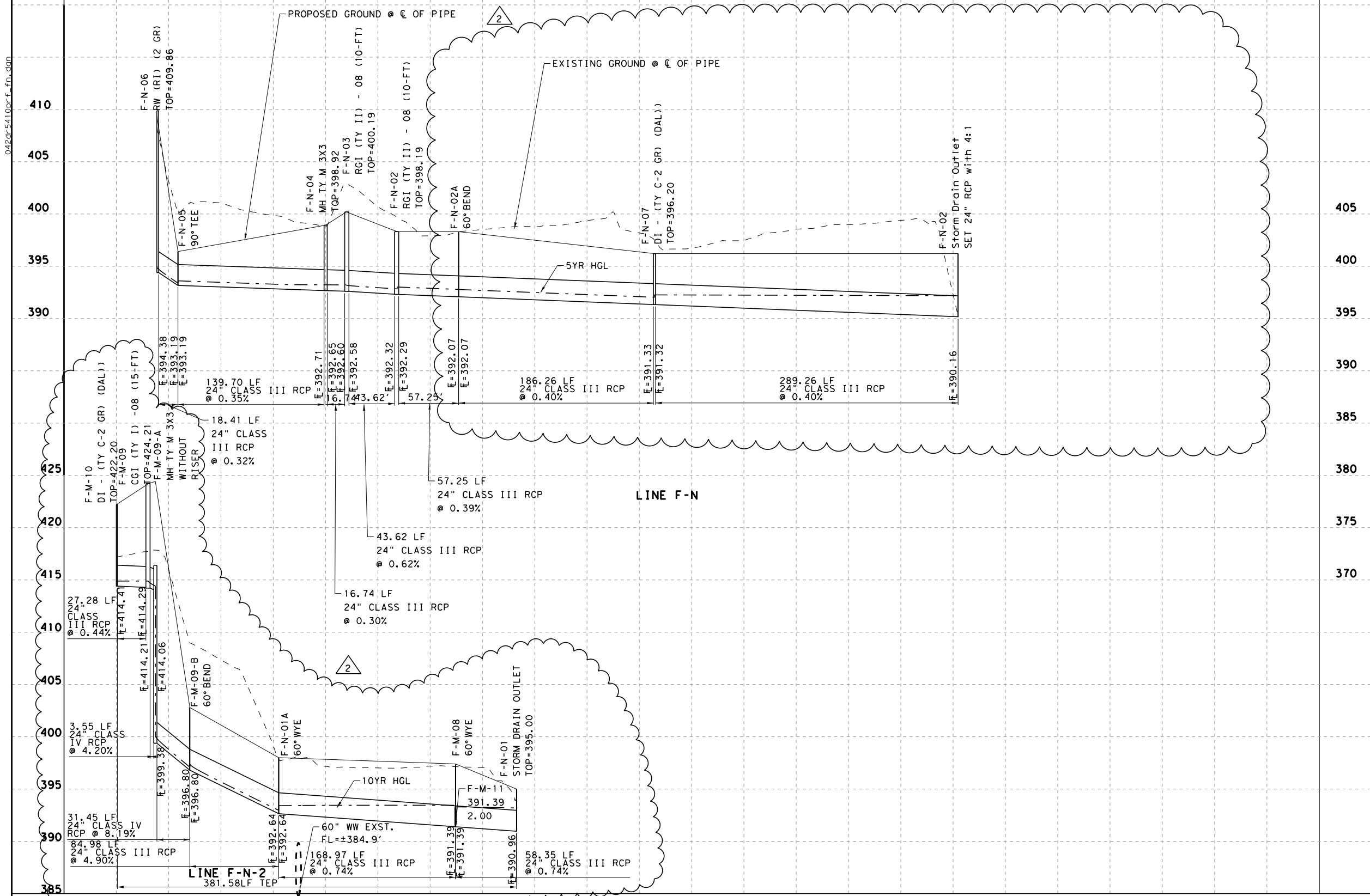
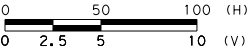
FILE NAME: 042DR5408PRF_FL
CONTROL: ECP0DR6897
DESIGN PACKAGE: RFC
SHEET: 01 OF 01

DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.			HIGHWAY NO.
6	(SEE TITLE SHEET)				IH 30
DRAWN	STATE	DISTRICT	COUNTY	SHEET NO.	
BZ	TEXAS	DAL	DALLAS	DR5408	
CHECKED FG	CONTROL	SECTION	JOB		
APPROVED SP	1068	04	116		

10/10/2013 9:24:58 PM

\\pwc\ss\pwc\dwg\10198\19805_99\042dr5408prf_fl.dgn

PWD055
042dr5410prf_fn.dgn



RELEASED FOR CONSTRUCTION

By Amanda Lee at 10:22 am, Apr 17, 2015

Pegasus Link Constructors



Texas Department of Transportation
© 2015

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
0	RFC	10/10/2013
1	NDC 00082	04/21/2014
2	NDC 00172	04/08/2015



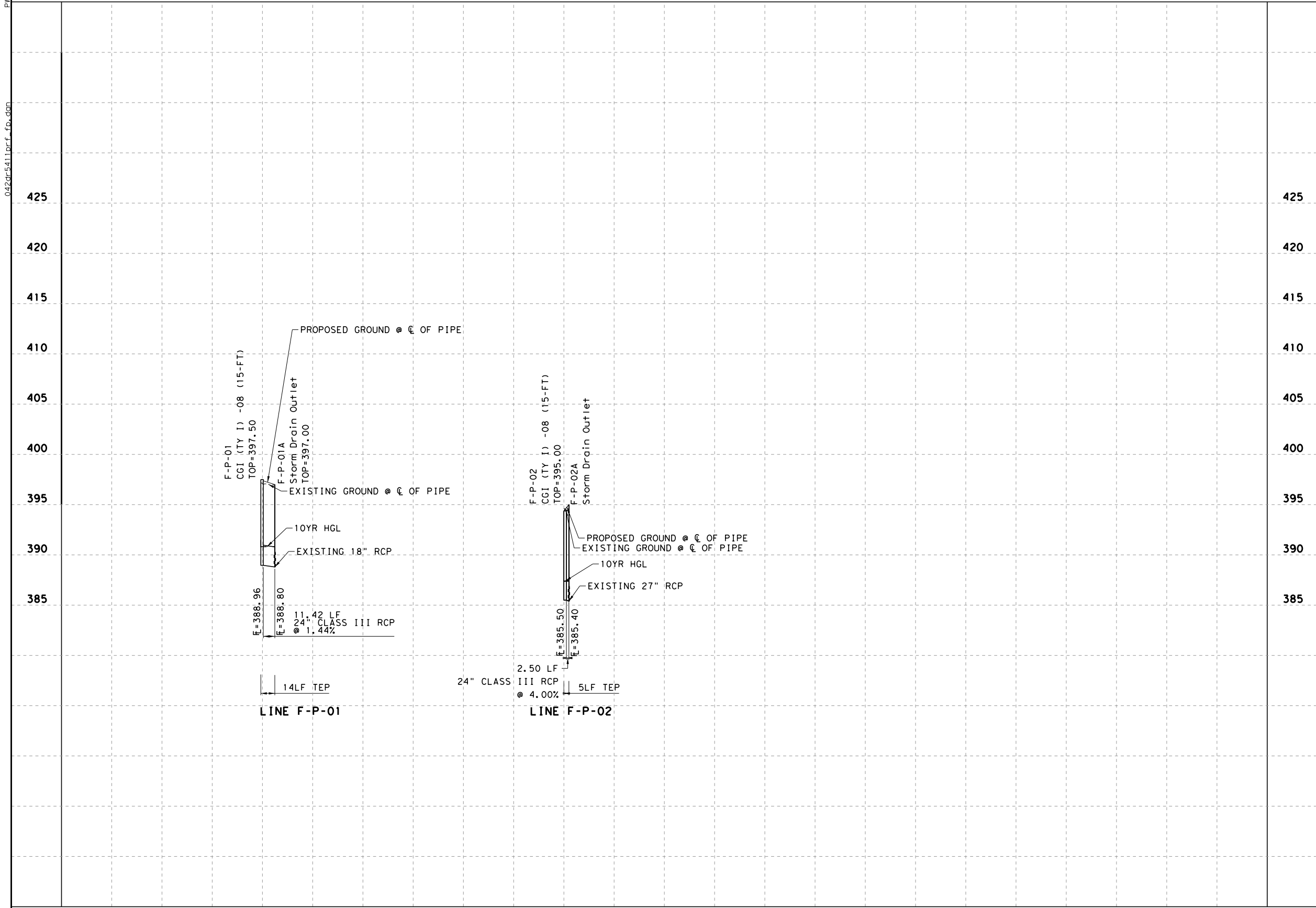
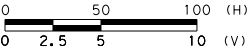
Pegasus Link Constructors, LLC
AECOM
AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT DRAINAGE PROFILE SYSTEM F-N

FILE NAME: 042DR5410PRF_FN	DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
CONTROL: ECP0DR6897	DRAWN BZ	6	(SEE TITLE SHEET)	1H 30
DESIGN PACKAGE: RFC	CHECKED FG	STATE	DISTRICT	COUNTY
SHEET: 01 OF 01	APPROVED SP	TEXAS	DAL	DALLAS
		CONTROL	SECTION	JOB
		1068	04	116
				DR5410

4/7/2015 8:47:13 PM
\\pwc055\pwc055\work\41717\19805_117\042dr5410prf_fn.dgn

042dr5411prf_fp.dgn
P:\p\cdcs\



RELEASED FOR CONSTRUCTION

By Beth Blair at 3:09 pm, Oct 22, 2013

Pegasus Link Constructors



ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
O	RFC	10/10/2013



Pegasus Link Constructors, LLC



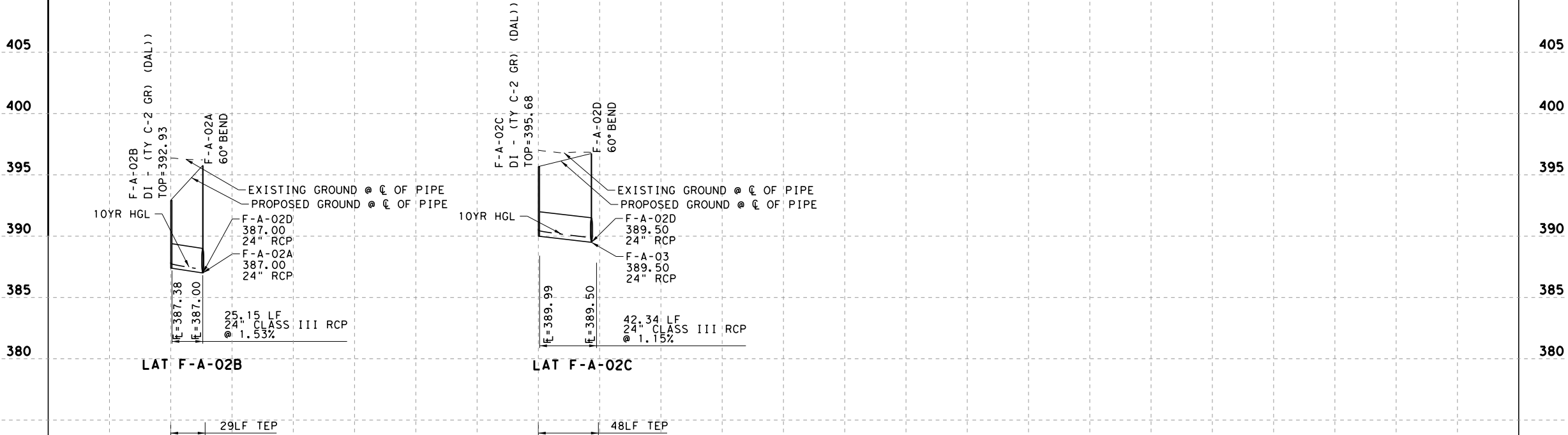
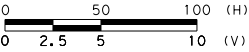
AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
DRAINAGE PROFILE
SYSTEM F-P

FILE NAME:
042DR5411PRF_FP
CONTROL:
ECP0DR6897
DESIGN PACKAGE:
RFC
SHEET:
01 OF 01

DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.			HIGHWAY NO.
DRAWN BZ	6	(SEE TITLE SHEET)			IH 30
CHECKED FG	STATE	DISTRICT	COUNTY		SHEET NO.
APPROVED SP	TEXAS	DAL	DALLAS		DR5411
	CONTROL	SECTION	JOB		
	1068	04	116		

PWD055
042dr5501prf_fa.dgn



RELEASED FOR CONSTRUCTION

By Beth Blair at 3:09 pm, Oct 22, 2013

Pegasus Link Constructors



ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
O	RFC	10/10/2013



Pegasus Link Constructors, LLC



AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
DRAINAGE PROFILE
SYSTEM F-A LATERALS

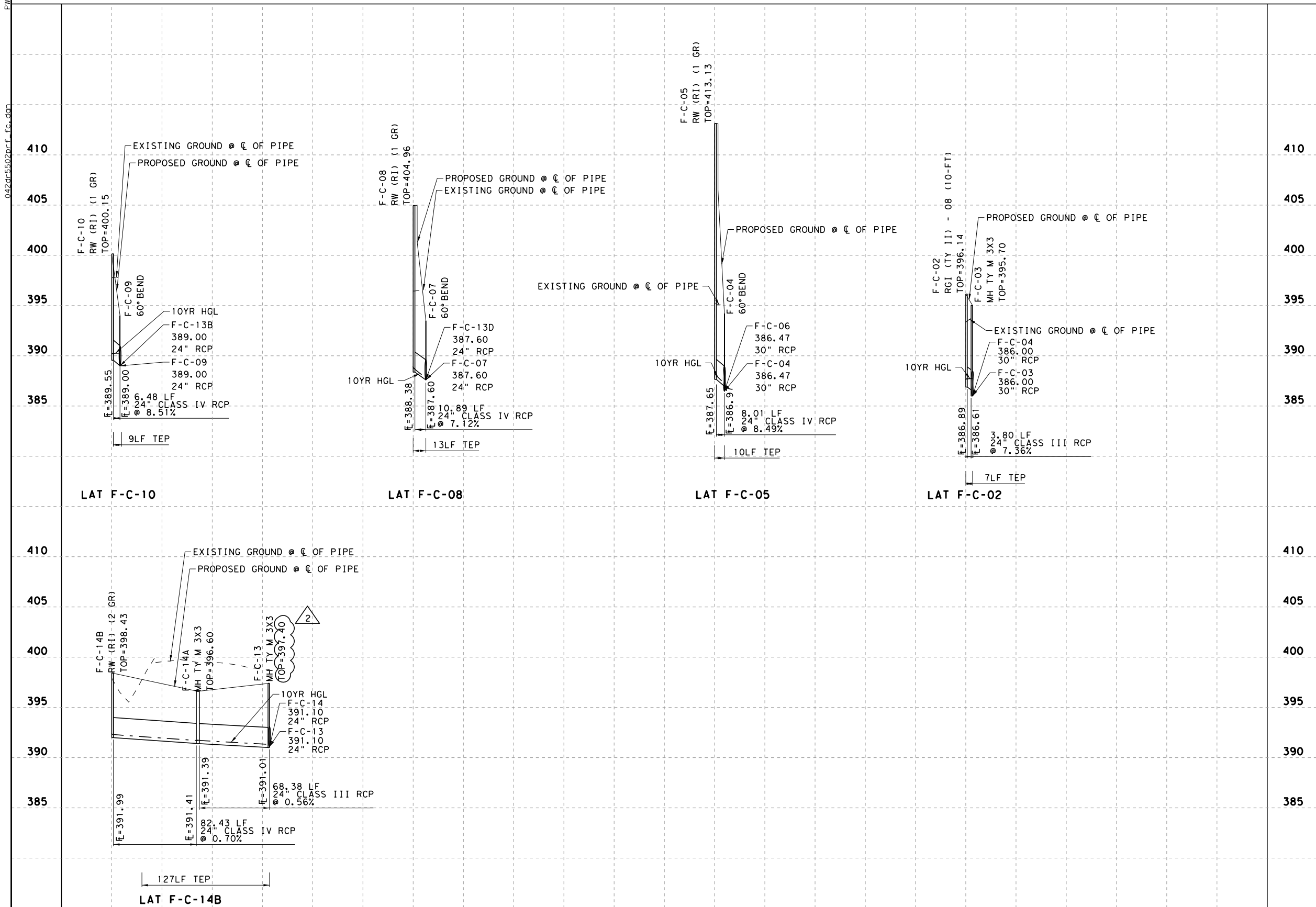
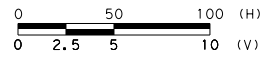
FILE NAME:
042DR5501PRF_FA
CONTROL:
ECP0DR6897
DESIGN PACKAGE:
RFC
SHEET:
01 OF 01

DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.			HIGHWAY NO.
	6	(SEE TITLE SHEET)			IH 30
DRAWN	STATE	DISTRICT	COUNTY	SHEET NO.	
BZ	TEXAS	DAL	DALLAS	DR5501	
CHECKED FG	CONTROL	SECTION	JOB		
	1068	04	116		

10/10/2013 9:24:55 PM
ip101dr5501prf_fa.dgn

042dr5502prf_fc.dgn

PWDGSS



RELEASED FOR CONSTRUCTION

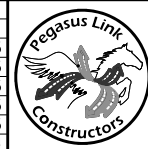
By Beth Blair at 1:22 pm, May 12, 2014

Pegasus Link Constructors



Texas Department of Transportation
© 2014

ISSUE RECORD		
NO.	DESCRIPTION	DATE
A	INTERIM	05/01/2013
B	REVISED	07/05/2013
C	FINAL	09/09/2013
0	RFC	10/10/2013
1	NDC 00049	12/20/2013
2	NDC 00082	04/21/2014



Pegasus Link Constructors, LLC

AECOM AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

**HORSESHOE PROJECT
DRAINAGE PROFILE
SYSTEM F-C LATERALS**

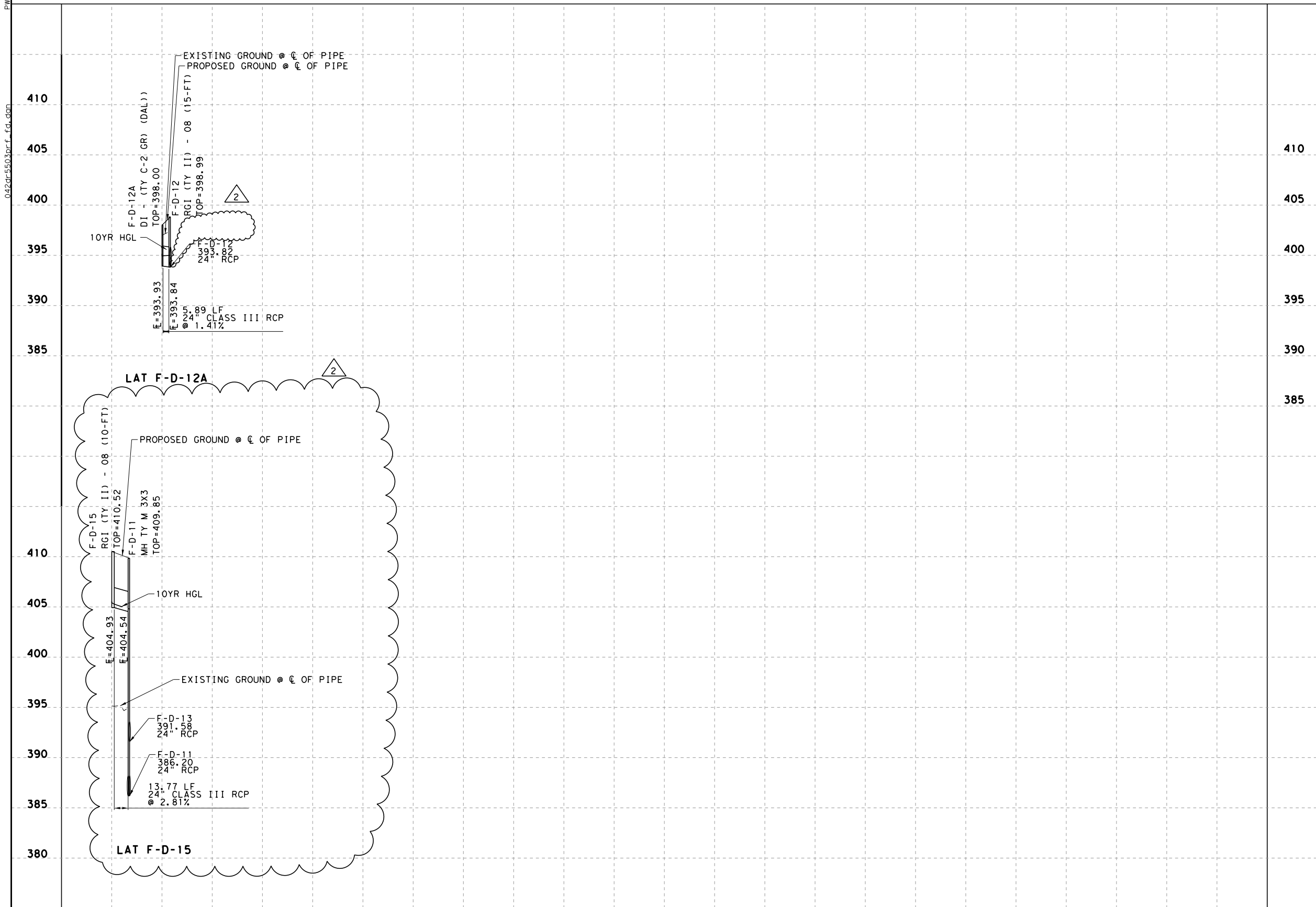
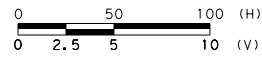
FILE NAME:
042DR5502PRF_FC
CONTROL:
ECP0DR6897
DESIGN PACKAGE:
RFC
SHEET:
01 OF 01

DESIGNED	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
SP	6	(SEE TITLE SHEET)		IH 30
DRAWN	STATE	DISTRICT	COUNTY	SHEET NO.
BZ	TEXAS	DAL	DALLAS	DR5502
CHECKED	CONTROL	SECTION	JOB	
FG	1068	04	116	
APPROVED	SP			

4/17/2014 12:06:03 AM
ip10t-drvm.plt
\\pwc\ss\pwc\swrk\21302\19805_66\042dr5502prf_fc.dgn

042dr5503prf_fd.dgn

PWDGSS



RELEASED FOR CONSTRUCTION

By Alyssa Moss at 12:27 pm, Mar 27, 2015

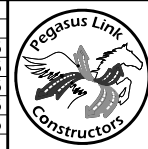
Pegasus Link Constructors



P. Srilakshmi 3/6/2015

Texas Department of Transportation
© 2015

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
0	RFC	10/10/2013
1	NDC 00049	12/20/2013
2	NDC 00170	03/06/2015



Pegasus Link Constructors, LLC

AECOM
AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

**HORSESHOE PROJECT
DRAINAGE PROFILE
SYSTEM F-D LATERALS**

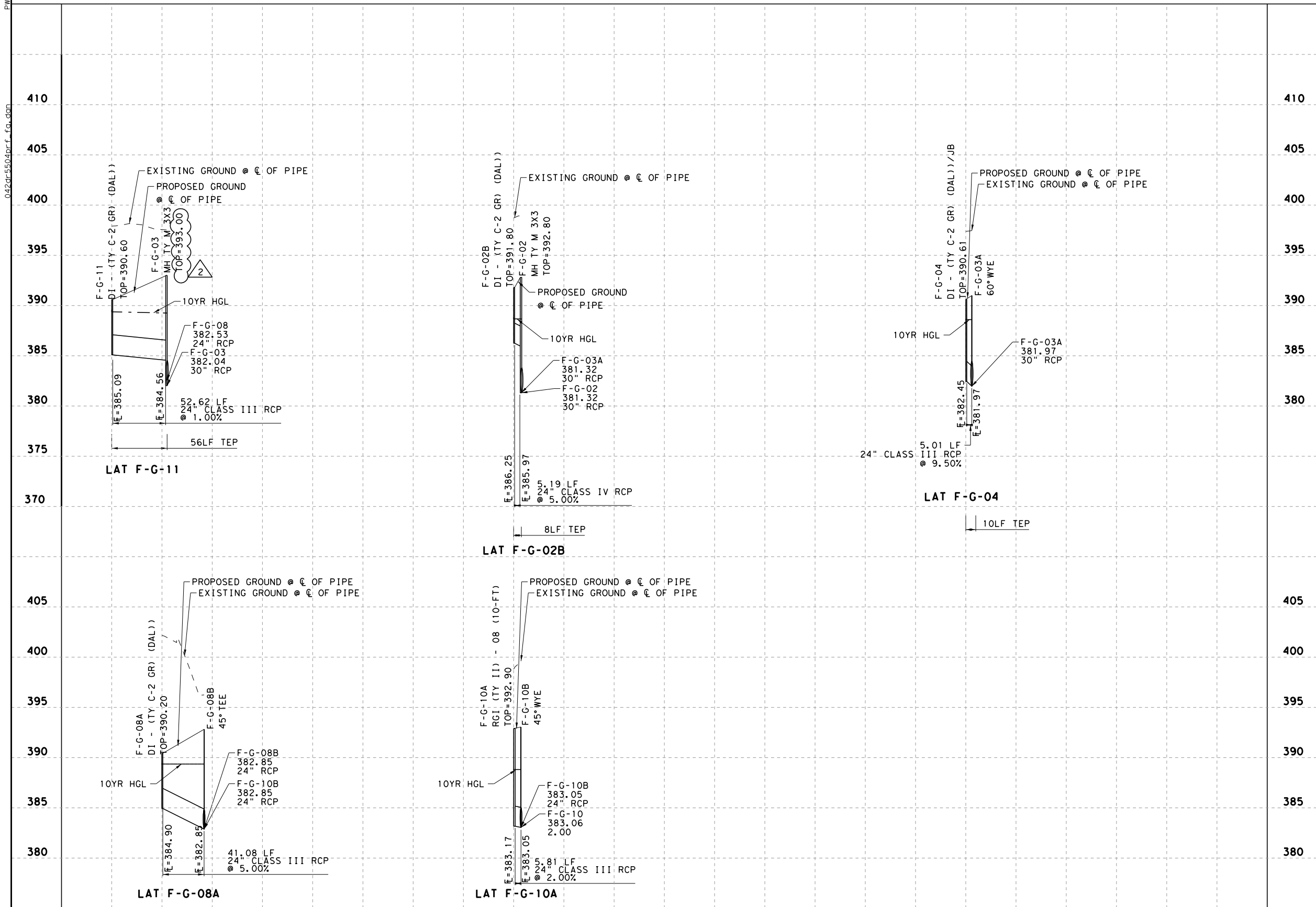
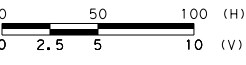
FILE NAME:
042DR5503PRF_FD
CONTROL:
ECP0DR6897
DESIGN PACKAGE:
RFC
SHEET:
01 OF 01

DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.			HIGHWAY NO.
		6	(SEE TITLE SHEET)		IH 30
DRAWN BZ	STATE	DISTRICT	COUNTY		SHEET NO.
			TEXAS	DAL DALLAS	
CHECKED FG	CONTROL	SECTION	JOB		DR5503
			1068	04 116	
APPROVED SP					

3/6/2015 5:00:51 PM
ip1otdrvm.plt
\\pwc\ss\pwc\swrk\39294\19805_119\042dr5503prf_fd.dgn

042dr5504prf_fg.dgn

PWDcss



RELEASED FOR CONSTRUCTION

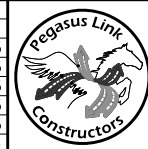
By Beth Blair at 1:22 pm, May 12, 2014

Pegasus Link Constructors



Texas Department of Transportation
© 2014

ISSUE RECORD		
NO.	DESCRIPTION	DATE
A	INTERIM	05/01/2013
B	REVISED	07/05/2013
C	FINAL	09/09/2013
O	RFC	10/10/2013
1	NDC 00049	12/20/2013
2	NDC 00082	04/21/2014



Pegasus Link Constructors, LLC

AECOM
AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

**HORSESHOE PROJECT
DRAINAGE PROFILE
SYSTEM F-G LATERALS**

FILE NAME: 042DR5504PRF_FG
CONTROL: ECP0DR6897
DESIGN PACKAGE: RFC
SHEET: 01 OF 01

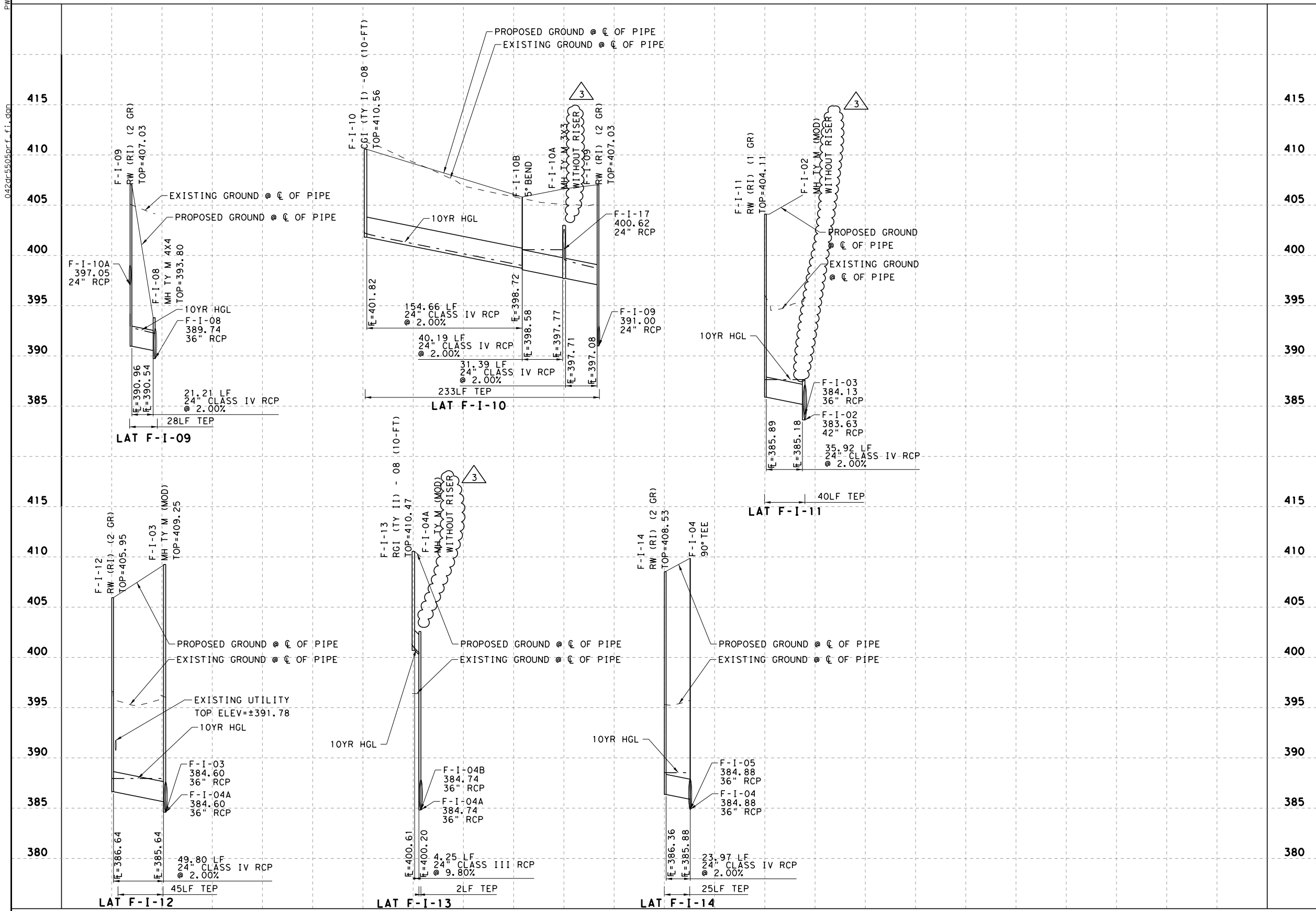
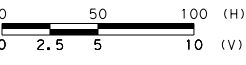
DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.			HIGHWAY NO.
6	6	(SEE TITLE SHEET)			IH 30
DRAWN	STATE	DISTRICT	COUNTY	SHEET NO.	
BZ	TEXAS	DAL	DALLAS	DR5504	
CHECKED FG	CONTROL	SECTION	JOB		
SP	1068	04	116		

\\pwc\css\pwc\swr\K21302\19805_71\042dr5504prf_fg.dgn

4/17/2014 12:06:30 AM
ip1otdrvm.plt

042dr5505prf_fi.dgn

PWDGSS



RELEASED FOR CONSTRUCTION

By Beth Blair at 1:22 pm, May 12, 2014

Pegasus Link Constructors



P. Sri Lakshmi 4/21/2014

Texas Department of Transportation
© 2014

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
0	RFC	10/10/2013
1	NDC 00049	12/20/2013
2	NDC 00064	03/04/2014
3	NDC 00082	04/21/2014



Pegasus Link Constructors, LLC

AECOM

AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

**HORSESHOE PROJECT
DRAINAGE PROFILE
SYSTEM F-I LATERALS**

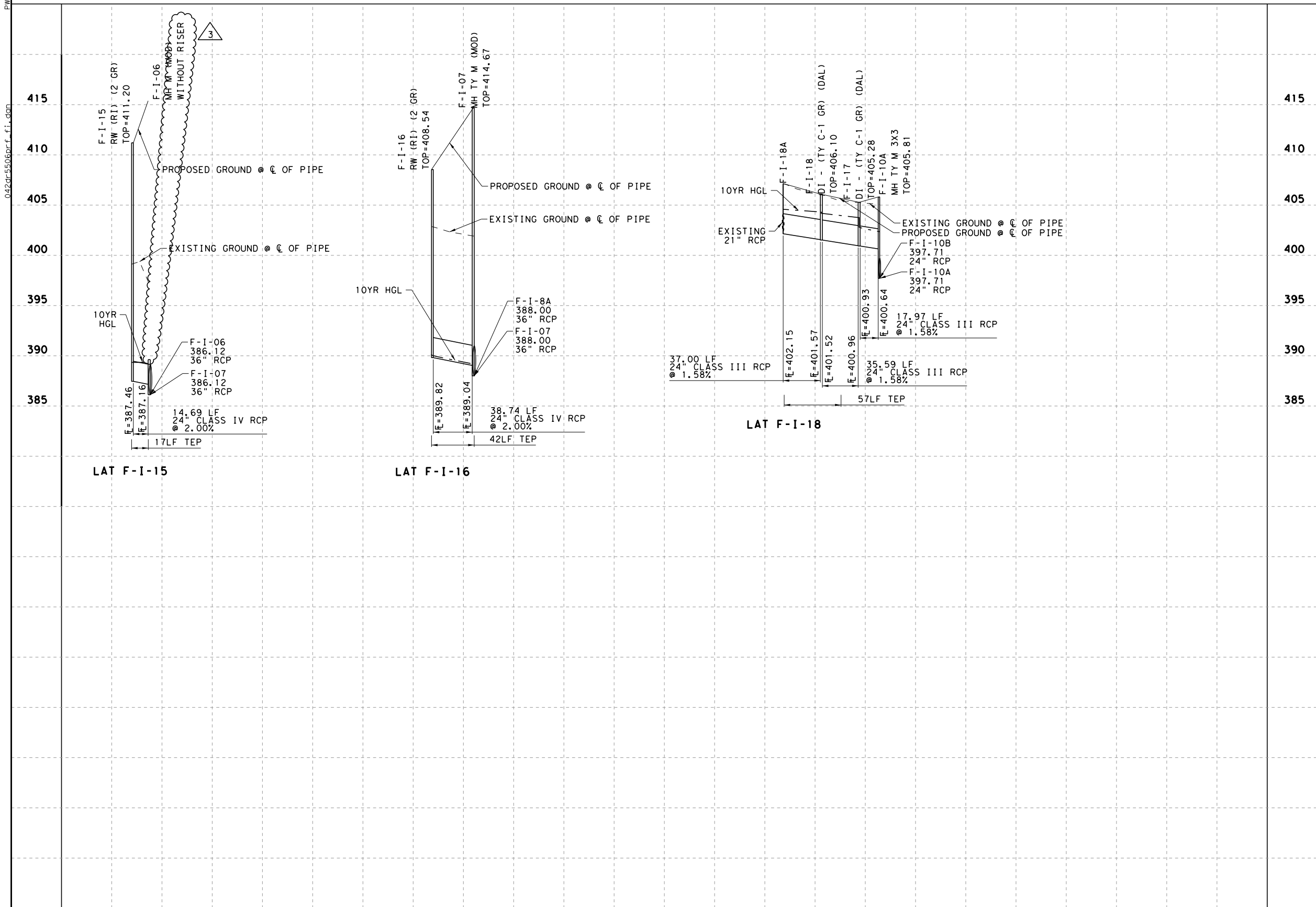
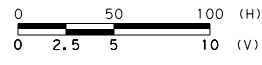
FILE NAME: 042DR5505PRF_FI
CONTROL: ECP0DR6897
DESIGN PACKAGE: RFC
SHEET: 01 OF 02

DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.			HIGHWAY NO.
BZ	6	(SEE TITLE SHEET)			IH 30
CHECKED FG	STATE	DISTRICT	COUNTY	SHEET NO.	
CONTROL	TEXAS	DAL	DALLAS	DR5505	
APPROVED SP	1068	04	116		

4/17/2014 12:06:04 AM
ip1ot-drvm.plt
\\pwc\pwc\dwg\21302\19805_74\042dr5505prf_fi.dgn

042dr5506prf_fi.dgn

PWDGSS



RELEASED FOR CONSTRUCTION

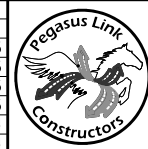
By Beth Blair at 1:22 pm, May 12, 2014

Pegasus Link Constructors



Texas Department of Transportation
© 2014

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
0	RFC	10/10/2013
1	NDC 00049	12/20/2013
2	NDC 00064	03/04/2014
3	NDC 00082	04/21/2014



Pegasus Link Constructors, LLC

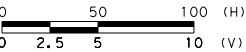
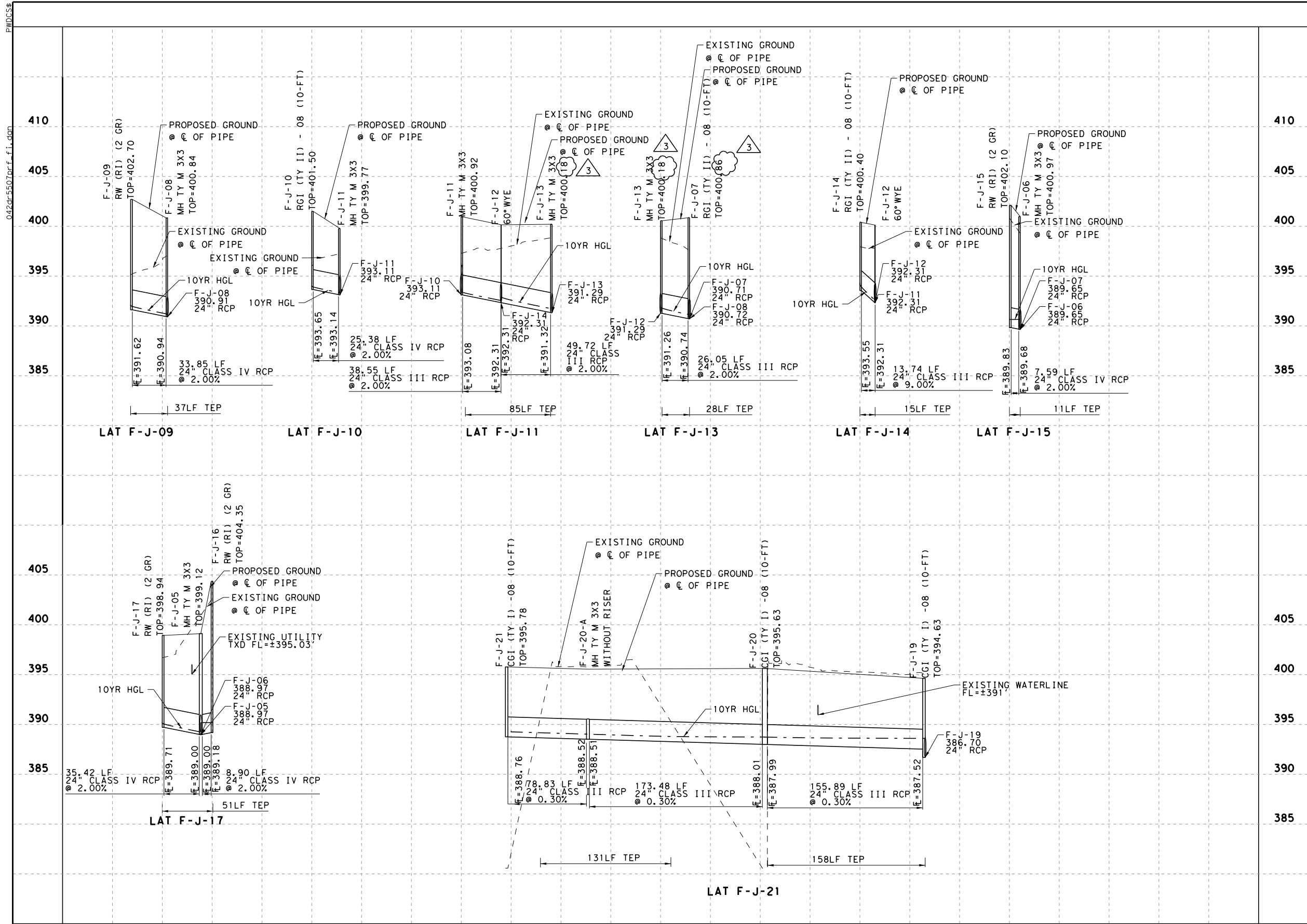
AECOM
AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
DRAINAGE PROFILE
SYSTEM F-I LATERALS

FILE NAME: 042DR5506PRF_FI
CONTROL: ECP0DR6897
DESIGN PACKAGE: RFC
SHEET: 02 OF 02

DESIGNED SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.			HIGHWAY NO.
BZ	6	(SEE TITLE SHEET)			IH 30
CHECKED FG	STATE	DISTRICT	COUNTY	SHEET NO.	
CONTROL	TEXAS	DAL	DALLAS	DR5506	
APPROVED SP	1068	04	116		

4/17/2014 12:06:32 AM
ip lot dr v m, pl t
\\p\pdc\pdc\w\K\21302\19805_120_042dr5506prf_fi.dgn



RELEASED FOR CONSTRUCTION

By Beth Blair at 1:22 pm, May 12, 2014

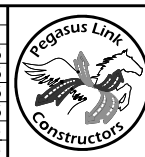
Pegasus Link Constructors



P. Sri Lakshmi 4/21/2014

Texas Department of Transportation
© 2014

ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
0	RFC	10/10/2013
1	NDC 00049	12/20/2013
2	NDC 00064	03/04/2014
3	NDC 00082	04/21/2014



Pegasus Link Constructors, LLC

AECOM

AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

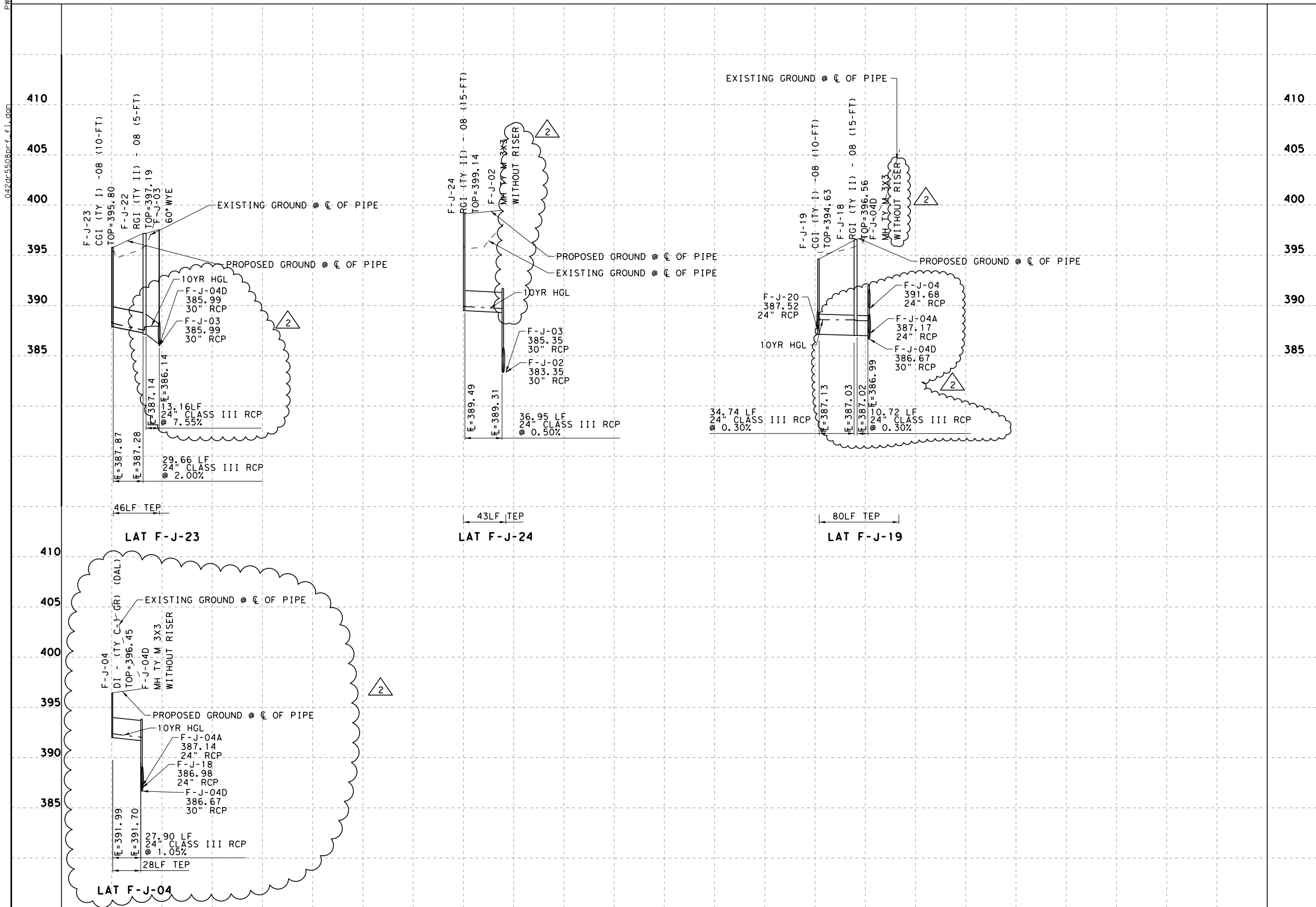
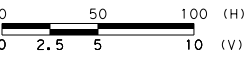
HORSESHOE PROJECT DRAINAGE PROFILE SYSTEM F-J LATERALS

FILE NAME:
042DR5507PRF_FJ
CONTROL:
ECP0DR6897
DESIGN PACKAGE:
RFC
SHEET:
01 OF 02

DESIGNED	SP	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
DRAWN	BZ	6	(SEE TITLE SHEET)		IH 30
CHECKED	FG	STATE	DISTRICT	COUNTY	SHEET NO.
APPROVED	SP	TEXAS	DAL	DALLAS	DR5507
		CONTROL	SECTION	JOB	
		1068	04	116	

042dr5508prf_fj.dgn

PWDGSS



ISSUE RECORD		
NO.	DESCRIPTION	DATE
B	REVISED	07/05/2013
C	FINAL	09/09/2013
O	RFC	10/10/2013
1	NDC 00082	04/21/2014
2	NDC 00126	07/15/2014



Pegasus Link Constructors, LLC

AECOM
AECOM Technical Services, Inc. - F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
DRAINAGE PROFILE
SYSTEM F-J LATERALS

FILE NAME:
042DR5508PRF_FJ
CONTROL:
ECP0DR6897
DESIGN PACKAGE:
RFC
SHEET:
02 OF 02

DESIGNED	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.			HIGHWAY NO.
SP	6	(SEE TITLE SHEET)			IH 30
DRAWN	STATE	DISTRICT	COUNTY	SHEET NO.	
BZ	TEXAS	DAL	DALLAS	DR5508	
CHECKED	CONTROL	SECTION	JOB		
SV	SV	1068	04 116		

RELEASED FOR CONSTRUCTION

By Beth Blair at 9:09 am, Jul 31, 2014

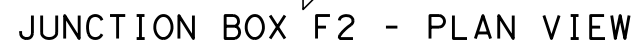
Pegasus Link Constructors



Vinnakota 7/15/2014

Texas Department of Transportation
© 2014

7/15/2014 8:18:14 PM \\p\dwgcs\p\dwgcs\w\K27728\19805_121\042dr5508prf_fj.dgn



BARS L

BARS C ③

BARS S

* IN PAIRS

- ① FROM AS-BUILTS * IN PAIRS
- ② #6 DOWELS @ 6" C/C
WITH 6" EMBEDMENT.
EPOXY GROUT DOWELS
INTO EXISTING STRUCTURE
BEFORE CASTING PROPOSED
STRUCTURE. SEE DETAIL A.
- ③ CUT BARS C AS REQUIRED
TO INSTALL CULVERTS
- ④ OPTIONAL
CONSTRUCTION JOINT.



GENERAL NOTES:

DESIGNED ACCORDING TO AASHTO LRFD SPECIFICATIONS.
DESIGNED TO A MAXIMUM FILL HEIGHT OF 13'.
ALL REINFORCING STEEL SHALL BE GRADE 60, $f_y=60\text{ksi}$.
ALL CONCRETE SHALL BE CLASS "C" WITH A MINIMUM
COMPRESSIVE STRENGTH OF 3,600 PSI.
THE USE OF PERMANENT FORMS IS NOT ALLOWED.
THE BOTTOM EDGE OF THE TOP SLAB SHALL BE
CHAMFERED 3" AT THE ENTRANCE.
REINFORCING BARS SHALL BE ADJUSTED TO PROVIDE
A MINIMUM OF $1\frac{1}{4}$ " CLEAR COVER.
USE LAP LENGTH #5 - 3'-0", #6 - 3'-7".

HL93 LOADING


RELEASED FOR CONSTRUCTION

By Beth Blair at 3:09 pm, Oct 22, 2013

Pegasus Link Constructors



 *Texas Department of Transportation*
© 2013



Pegasus Link Constructors, LLC

AECOM

AECOM Technical Services, Inc.- F-3580
16000 Dallas Parkway, Suite 350
Dallas, Texas 75248

HORSESHOE PROJECT
DRAINAGE DETAIL
JUNCTION BOX F2

FILE NAME:	042DR5701DTL
CONTROL:	ECP0DR6897
DESIGN PACKAGE:	RFC
SHEET:	01 OF 01

DESIGNED SMS	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
DRAWN BZ	6	(SEE TITLE SHEET)		IH 30
CHECKED FG	STATE	DISTRICT	COUNTY	SHEET NO.
APPROVED SMS	TEXAS	DAL	DALLAS	DR5701
	CONTROL	SECTION	JOB	
	1068	04	116	