CITY OF LYNCHBURG

DEPARTMENT OF WATER RESOURCES

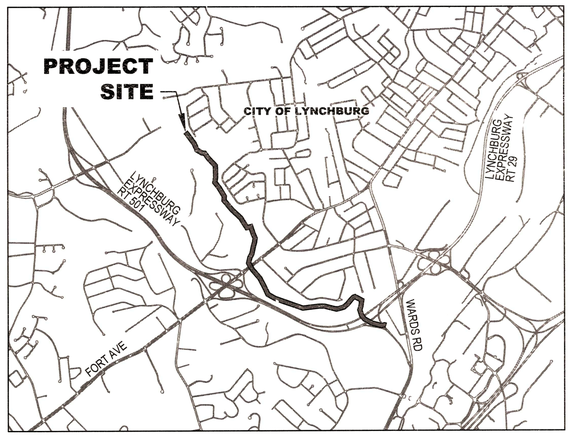
BURTON CREEK INTERCEPTOR 15030-S

LYNCHBURG, VIRGINIA

APRIL 13, 2016

CITY OF LYNCHBURG PROJECT #RWS1509-0002

USACE PROJECT #_____



VICINITY MAP

NOT TO SCALE

OWNER INFORMATION:

OWNER: CITY OF LYNCHBURG

CONTACT: ERIC SCHRADER
UTILITY ENGINEER
525 TAYLOR STREET
LYNCHBURG, VA 24501

PHONE: (434) 455-3953
EMAIL: eric.schrader@lynchburgva.gov

ENGINEER INFORMATION:

ENGINEER: WILEY|WILSON
127 NATIONWIDE DRIVE
LYNCHBURG, VA 24502

CONTACT: G. KEITH THOMPSON, PE
PHONE: (434) 455-3219
EMAIL: kthompson@wileywilson.com

PROJECT NAME & LOCATION:

BURTON CREEK INTERCEPTOR
LYNCHBURG, VIRGINIA

RECEIVED
APR 29 2016
COMMUNITY DEVELOPMENT

VIRGINIA STORMWATER MANAGEMENT NOTES:

1. WATER QUALITY IMPACTS - WORK INCLUDED IN THIS PROJECT DOES NOT INCREASE AMOUNTS OF IMPERVIOUS SURFACES. THE WORK WILL HAVE NO IMPACT ON WATER QUALITY.
2. STREAM CHANNEL PROTECTION - ALL GRADES AND SURFACES WILL BE RETURNED TO PRE-WORK CONDITIONS. THEREFORE, THERE WILL BE NO CHANGE TO RUNOFF QUANTITIES, RATE OF FLOW OR OTHER HYDRAULIC CONDITION.
3. FLOODING IMPACTS - THE WORK WILL HAVE NO IMPACT ON THE 10-YEAR PEAK RUNOFF RATE.
4. CONSTRUCTION SHALL BE SEQUENCED TO LIMIT THE DISTURBED AREA TO LESS THAN (1) ACRE. DISTURBED AREAS MUST BE STABILIZED IMMEDIATELY FOLLOWING THE COMPLETION OF WORK IN THAT AREA.

LEGEND & ABBREVIATIONS:

EXISTING

- CONTROL POINT - NAIL SET
- STORM MANHOLE
- SANITARY MANHOLE
- POWER POLE
- LIGHT POLE
- FIRE HYDRANT
- TELEPHONE POLE
- TREE
- RAILROAD TRACKS
- EDGE OF PAVEMENT
- FENCELINE
- TREELINE
- OHT — OVERHEAD TELEPHONE
- UGT — UNDERGROUND NATURAL GAS
- OHE — OVERHEAD ELECTRIC
- UGE — UNDERGROUND ELECTRIC
- SS — SANITARY LINE
- SD — STORM LINE
- W — WATER LINE
- PROPERTY LINE
- EDGE OF WATER
- SOIL DELINEATION

CoL	CITY OF LYNCHBURG
DI	DUCTILE IRON PIPE
E	EASTING
EL	ELEVATION
EX	EXISTING
INV	INVERT
LF	LINEAR FOOT
MH	MANHOLE
N	NORTHING
OHE	OVERHEAD ELECTRIC
PVC	POLYVINYL CHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
SD	STORM SEWER
SS	SANITARY SEWER
STA	STATION
STD	STANDARD
TC	TERRA COTTA
UGE	UNDERGROUND ELECTRIC
VDOT	VIRGINIA DEPARTMENT OF TRANSPORTATION

IMPERVIOUS AREA STATISTICS

THE PLANNED IMPROVEMENTS WILL NOT CHANGE THE IMPERVIOUS COVER WITHIN THE PROJECT CORRIDOR.

LIST OF DRAWINGS

DWG NO.	TITLE
G-001	COVER SHEET
C-001	OVERALL PLAN
C-101	PLAN & PROFILE STA 29+02 TO 42+00
C-102	PLAN & PROFILE STA 42+00 TO 56+00
C-103	PLAN & PROFILE STA 56+00 TO 70+00
C-104	PLAN & PROFILE STA 70+00 TO 84+00
C-105	PLAN & PROFILE STA 84+00 TO 98+00
C-106	PLAN & PROFILE STA 98+00 TO 112+00
C-107	PLAN & PROFILE STA 112+00 TO 126+00
C-108	PLAN & PROFILE STA 126+00 TO 140+00
C-109	PLAN & PROFILE STA 140+00 TO 150+65
C-110	SITE ACCESS
C-111	SITE ACCESS
C-301	DETAILS
C-302	DETAILS
C-303	DETAILS
C-401	EROSION & SEDIMENT CONTROL NARRATIVE

GENERAL NOTES:

1. CONTACT THE CITY CONSTRUCTION COORDINATOR (GREG BLAIR 434-455-4141) AND MISS UTILITY 48 HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY.
2. ALL WORK ON THIS PROJECT SHALL CONFORM TO THE LATEST EDITIONS OF THE CITY OF LYNCHBURG MANUAL OF SPECIFICATIONS AND STANDARD DETAILS, THE VIRGINIA EROSION AND SEDIMENT CONTROL REGULATIONS, AND ANY OTHER STATE, FEDERAL, OR LOCAL REGULATIONS APPLICABLE. IN THE EVENT OF CONFLICT BETWEEN ANY OF THESE STANDARDS, SPECIFICATIONS OR PLANS, THE MOST STRINGENT SHALL GOVERN.

CITY OF LYNCHBURG PROJECT #RWS1509-0002

"I HEREBY CERTIFY THAT, TO THE BEST OF MY ABILITY, THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE LATEST CITY OF LYNCHBURG MANUAL OF SPECIFICATIONS AND STANDARD DETAILS AND CITY CODE."

SIGNATURE: _____ REGISTRATION NUMBER: _____

PRINTED NAME AND TITLE: _____ DATE: _____

"I/WE HEREBY CERTIFY THAT ALL SITE CONSTRUCTION, DRAINAGE AND GRADING WILL BE DONE PURSUANT TO THIS PLAN AND THAT THE APPLICABLE STORMWATER MANAGEMENT CONDITIONS AND REQUIREMENTS OF THE CITY OF LYNCHBURG, THE COMMONWEALTH OF VIRGINIA AND THE FEDERAL GOVERNMENT AND ITS AGENCIES ARE HEREBY MADE PART OF THIS PLAN."

SIGNATURE: _____ TITLE: _____

PRINTED NAME: _____ DATE: _____

CITY ENGINEER: [signature] DATE: 5/20/16

UTILITIES ENGINEER: [signature] DATE: UTILITIES DEPT MAY 03 2016

ESC PLAN APPROVAL: [signature] DATE: 23 May 2016

Wiley|Wilson
Constant Progress
127 Nationwide Drive, Lynchburg, Virginia 24502-4272
phone 434-947-1901 | fax 434-947-1601 | web wileywilson.com

COMMONWEALTH OF VIRGINIA
G. KEITH THOMPSON, JR.
Lic. No. 41623
4/13/16
PROFESSIONAL ENGINEER

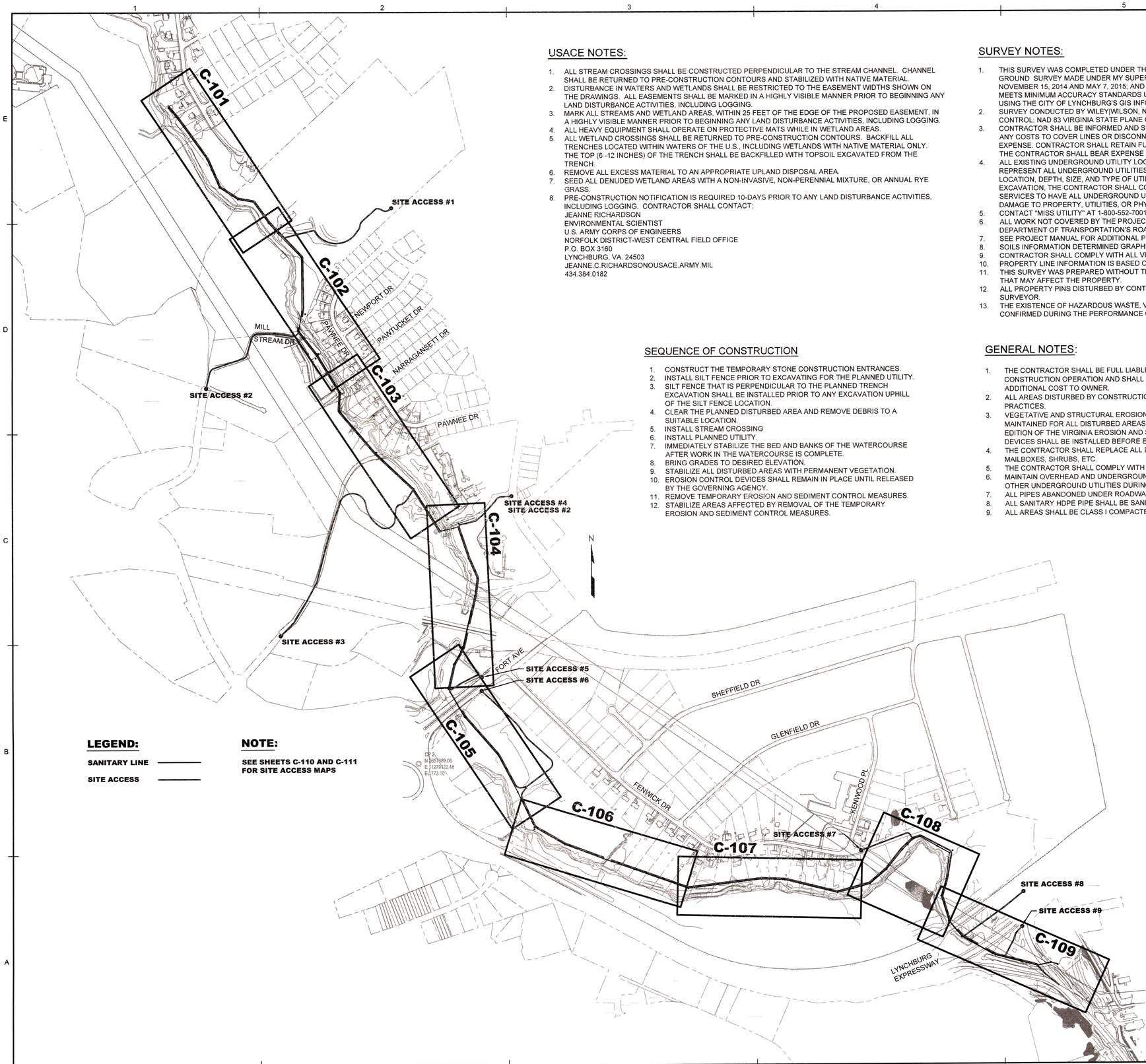
CITY OF LYNCHBURG
DEPARTMENT OF WATER RESOURCES
BURTON CREEK INTERCEPTOR
LYNCHBURG, VIRGINIA

MRK	DATE	REVISION DESCRIPTION

COMM NO: 214042.01
DATE: APRIL 13, 2016
DRAWN: LDB DESIGN: LDB
CHECK: GKT
SHEET TITLE
COVER SHEET

SHT. NO. G-001 REV. NO. 0

X:\2014\214042 LYBG BURTON CREEK AERIAL SURVEY\CAD\SHEETS\214042G-001.DWG 4/13/2016 8:37 AM



USACE NOTES:

1. ALL STREAM CROSSINGS SHALL BE CONSTRUCTED PERPENDICULAR TO THE STREAM CHANNEL. CHANNEL SHALL BE RETURNED TO PRE-CONSTRUCTION CONTOURS AND STABILIZED WITH NATIVE MATERIAL.
2. DISTURBANCE IN WATERS AND WETLANDS SHALL BE RESTRICTED TO THE EASEMENT WIDTHS SHOWN ON THE DRAWINGS. ALL EASEMENTS SHALL BE MARKED IN A HIGHLY VISIBLE MANNER PRIOR TO BEGINNING ANY LAND DISTURBANCE ACTIVITIES, INCLUDING LOGGING.
3. MARK ALL STREAMS AND WETLAND AREAS, WITHIN 25 FEET OF THE EDGE OF THE PROPOSED EASEMENT, IN A HIGHLY VISIBLE MANNER PRIOR TO BEGINNING ANY LAND DISTURBANCE ACTIVITIES, INCLUDING LOGGING.
4. ALL HEAVY EQUIPMENT SHALL OPERATE ON PROTECTIVE MATS WHILE IN WETLAND AREAS.
5. ALL WETLAND CROSSINGS SHALL BE RETURNED TO PRE-CONSTRUCTION CONTOURS. BACKFILL ALL TRENCHES LOCATED WITHIN WATERS OF THE U.S., INCLUDING WETLANDS WITH NATIVE MATERIAL ONLY. THE TOP (6 -12 INCHES) OF THE TRENCH SHALL BE BACKFILLED WITH TOPSOIL EXCAVATED FROM THE TRENCH.
6. REMOVE ALL EXCESS MATERIAL TO AN APPROPRIATE UPLAND DISPOSAL AREA.
7. SEED ALL DENUDED WETLAND AREAS WITH A NON-INVASIVE, NON-PERENNIAL MIXTURE, OR ANNUAL RYE GRASS.
8. PRE-CONSTRUCTION NOTIFICATION IS REQUIRED 10-DAYS PRIOR TO ANY LAND DISTURBANCE ACTIVITIES, INCLUDING LOGGING. CONTRACTOR SHALL CONTACT:
   JEANNE RICHARDSON
   ENVIRONMENTAL SCIENTIST
   U.S. ARMY CORPS OF ENGINEERS
   NORFOLK DISTRICT-WEST CENTRAL FIELD OFFICE
   P.O. BOX 3160
   LYNCHBURG, VA. 24503
   JEANNE.C.RICHARDSONOUSACE.ARMY.MIL
   434.384.0182

SEQUENCE OF CONSTRUCTION

1. CONSTRUCT THE TEMPORARY STONE CONSTRUCTION ENTRANCES.
2. INSTALL SILT FENCE PRIOR TO EXCAVATING FOR THE PLANNED UTILITY.
3. SILT FENCE THAT IS PERPENDICULAR TO THE PLANNED TRENCH EXCAVATION SHALL BE INSTALLED PRIOR TO ANY EXCAVATION UPHILL OF THE SILT FENCE LOCATION.
4. CLEAR THE PLANNED DISTURBED AREA AND REMOVE DEBRIS TO A SUITABLE LOCATION.
5. INSTALL STREAM CROSSING
6. INSTALL PLANNED UTILITY.
7. IMMEDIATELY STABILIZE THE BED AND BANKS OF THE WATERCOURSE AFTER WORK IN THE WATERCOURSE IS COMPLETE.
8. BRING GRADES TO DESIRED ELEVATION.
9. STABILIZE ALL DISTURBED AREAS WITH PERMANENT VEGETATION.
10. EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL RELEASED BY THE GOVERNING AGENCY.
11. REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.
12. STABILIZE AREAS AFFECTED BY REMOVAL OF THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.

SURVEY NOTES:

1. THIS SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF JAMES J. LEWIS III, LS FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION; THAT THE IMAGERY AND/OR ORIGINAL DATA WAS OBTAINED ON NOVEMBER 15, 2014 AND MAY 7, 2015; AND THAT THIS PLAT, MAP, OR DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED. ADDITIONAL SURVEY INFORMATION WAS OBTAINED USING THE CITY OF LYNCHBURG'S GIS INFORMATION.
2. SURVEY CONDUCTED BY WILEY|WILSON, NOVEMBER 15, 2014 AND MAY 7, 2015. VERTICAL CONTROL: NAVD 88; HORIZONTAL CONTROL: NAD 83 VIRGINIA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, U.S. SURVEY FOOT.
3. CONTRACTOR SHALL BE INFORMED AND SHALL COMPLY WITH THE VIRGINIA OVERHEAD HIGH VOLTAGE LINE SAFETY ACT. ANY COSTS TO COVER LINES OR DISCONNECT SERVICE TO NEARBY POWER LINES SHALL BE AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL RETAIN FULL LIABILITY FOR COMPLIANCE WITH OSHA REGULATIONS AND THE SAFETY ACT. THE CONTRACTOR SHALL BEAR EXPENSE FOR POLE SUPPORT WHERE REQUIRED.
4. ALL EXISTING UNDERGROUND UTILITY LOCATIONS AS SHOWN ON THESE PLANS ARE APPROXIMATE AND MAY NOT REPRESENT ALL UNDERGROUND UTILITIES OR SERVICE LINES. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT LOCATION, DEPTH, SIZE, AND TYPE OF UTILITIES SHOWN AND NOTIFYING ENGINEER OF DISCREPANCIES. PRIOR TO EXCAVATION, THE CONTRACTOR SHALL CONTACT THE PERTINENT UTILITY COMPANIES AND/OR UTILITY LOCATING SERVICES TO HAVE ALL UNDERGROUND UTILITIES LOCATED AND MARKED. CONTRACTOR IS SOLELY RESPONSIBLE FOR DAMAGE TO PROPERTY, UTILITIES, OR PHYSICAL IMPROVEMENTS.
5. CONTACT "MISS UTILITY" AT 1-800-552-7001 TO DETERMINE THE LOCATIONS OF UNDERGROUND UTILITIES.
6. ALL WORK NOT COVERED BY THE PROJECT DOCUMENTS SHALL CONFORM TO THE LATEST EDITION OF THE VIRGINIA DEPARTMENT OF TRANSPORTATION'S ROAD & BRIDGE STANDARDS.
7. SEE PROJECT MANUAL FOR ADDITIONAL PROJECT REQUIREMENTS.
8. SOILS INFORMATION DETERMINED GRAPHICALLY FROM SOIL SURVEY FOR THE CITY OF LYNCHBURG, VIRGINIA.
9. CONTRACTOR SHALL COMPLY WITH ALL VIRGINIA EROSION & SEDIMENT CONTROL REGULATIONS.
10. PROPERTY LINE INFORMATION IS BASED ON VARIOUS PLATS AND DEEDS OF RECORD AND ACTUAL FIELD MEASUREMENTS.
11. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS NOT INTENDED TO SHOW ALL EASEMENTS THAT MAY AFFECT THE PROPERTY.
12. ALL PROPERTY PINS DISTURBED BY CONTRACTOR ACTIVITIES SHALL BE REPLACED BY A VIRGINIA LICENSED LAND SURVEYOR.
13. THE EXISTENCE OF HAZARDOUS WASTE, VEGETATED WETLANDS, OR TIDAL WETLANDS WAS NEITHER INVESTIGATED NOR CONFIRMED DURING THE PERFORMANCE OF THIS SURVEY.

GENERAL NOTES:

1. THE CONTRACTOR SHALL BE FULL LIABLE FOR ANY DAMAGES TO PUBLIC OR PRIVATE PROPERTY CAUSED BY CONSTRUCTION OPERATION AND SHALL RESTORE DAMAGED PROPERTY TO EXISTING OR BETTER CONDITION AT NO ADDITIONAL COST TO OWNER.
2. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE SEEDED AND PROTECTED WITH EROSION CONTROL PRACTICES.
3. VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE CONSTRUCTED AND MAINTAINED FOR ALL DISTURBED AREAS IN ACCORDANCE WITH ALL LOCAL REQUIREMENTS AND THE LATEST EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED BEFORE EXCAVATION BEGINS.
4. THE CONTRACTOR SHALL REPLACE ALL DISTURBED SURFACES IN KIND, INCLUDING PAVEMENT, STONE, DITCHES, MAILBOXES, SHRUBS, ETC.
5. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL CONFINED SPACE ENTRY REGULATIONS.
6. MAINTAIN OVERHEAD AND UNDERGROUND ELECTRICAL, TELEPHONE, SANITARY, AND GAS SERVICES AND ALL OTHER UNDERGROUND UTILITIES DURING ENTIRE CONSTRUCTION PERIOD. OUTAGES WILL NOT BE ALLOWED.
7. ALL PIPES ABANDONED UNDER ROADWAYS AND/OR RAILROADS SHALL BE PLUGGED AND FILLED W/FLOWABLE FILL.
8. ALL SANITARY HDPE PIPE SHALL BE SANITITE HP OR APPROVED EQUAL.
9. ALL AREAS SHALL BE CLASS I COMPACTED BACKFILL FOR THE ENTIRE PROJECT.

EROSION AND SEDIMENT CONTROL LEGEND

3.05	SILT FENCE	SF	X—X—X
3.31	TEMPORARY SEEDING	TS	—TS—
3.32	PERMANENT SEEDING	PS	—PS—
3.35	MULCHING	MU	—MU—
3.39	DUST CONTROL	DC	—DC—

LEGEND:

SANITARY LINE ———

SITE ACCESS ———

NOTE:

SEE SHEETS C-110 AND C-111 FOR SITE ACCESS MAPS

IF THIS DRAWING IS REDUCED, GRAPHIC SCALE MUST BE USED.

0 400' 800'

SCALE: 1" = 400'

CITY OF LYNCHBURG PROJECT #RWS1509-0002

MAY 20 2016

APPROVED: CITY ENGINEER DATE

UTILITIES DEPT MAY 03 2016

APPROVED: WATER RESOURCES (UTILITY) ENGINEER DATE

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COMMONWEALTH OF VIRGINIA
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CITY OF LYNCHBURG
DEPARTMENT OF WATER RESOURCES
BURTON CREEK INTERCEPTOR

LYNCHBURG, VIRGINIA

MRK	DATE	REVISION DESCRIPTION

COMM NO:	214042.01
DATE:	APRIL 13, 2016
DRAWN:	LDB DESIGN: LDB
CHECK:	ETH
SHEET TITLE	
OVERALL PLAN	
SHT. NO.	C-001
REV. NO.	0

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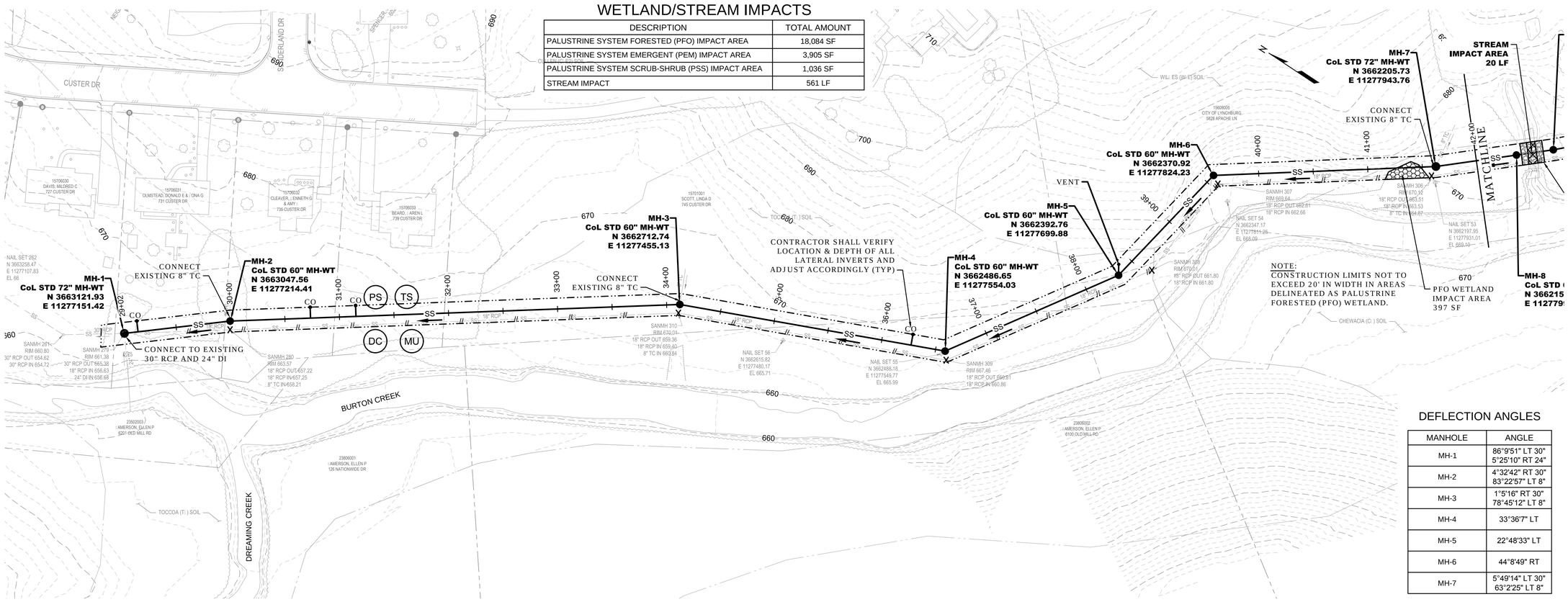
WETLAND/STREAM IMPACTS

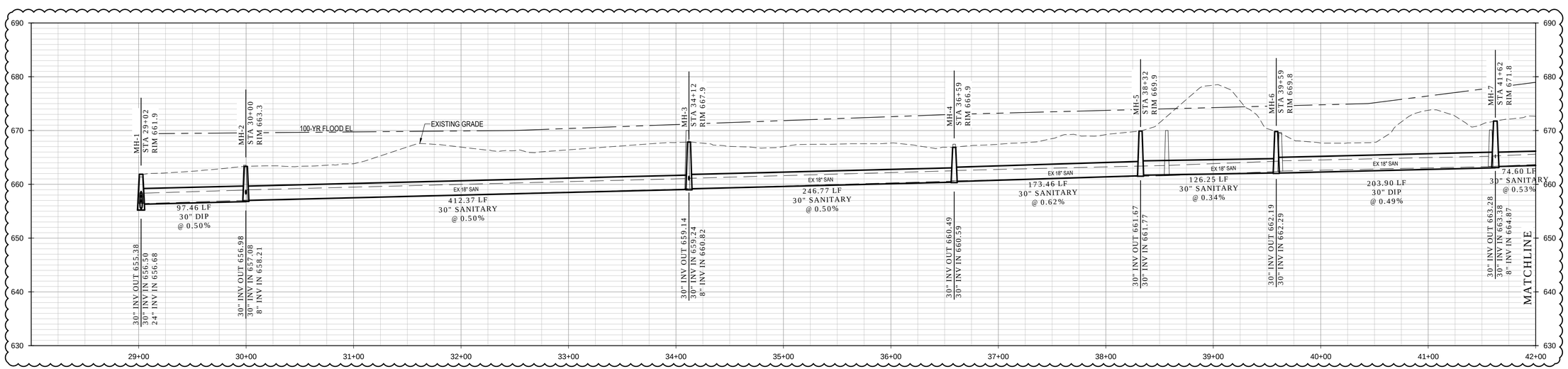
DESCRIPTION	TOTAL AMOUNT
PALUSTRINE SYSTEM FORESTED (PFO) IMPACT AREA	18,084 SF
PALUSTRINE SYSTEM EMERGENT (PEM) IMPACT AREA	3,905 SF
PALUSTRINE SYSTEM SCRUB-SHRUB (PSS) IMPACT AREA	1,036 SF
STREAM IMPACT	561 LF



NOTE:
CONSTRUCTION LIMITS NOT TO EXCEED 20' IN WIDTH IN AREAS DELINEATED AS PALUSTRINE FORESTED (PFO) WETLAND.

DEFLECTION ANGLES

MANHOLE	ANGLE
MH-1	86°9'51" LT 30" 5°25'10" RT 24"
MH-2	4°32'42" RT 30" 83°22'57" LT 8"
MH-3	1°5'16" RT 30" 78°45'12" LT 8"
MH-4	33°36'7" LT
MH-5	22°48'33" LT
MH-6	44°8'49" RT
MH-7	5°49'14" LT 30" 63°2'25" LT 8"



IF THIS DRAWING IS REDUCED, GRAPHIC SCALE MUST BE USED.

VERT: 1" = 10'
0 10' 20'
0 50' 100'
HORIZ: 1" = 50'

CITY OF LYNCHBURG PROJECT #RWS1509-0002

APPROVED: CITY ENGINEER DATE

APPROVED: WATER RESOURCES (UTILITY) ENGINEER DATE

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COMMONWEALTH OF VIRGINIA
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4/15/16
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LYNCHBURG, VIRGINIA

MRK	DATE	REVISION DESCRIPTION
1	7/29/2016	PROFILE SCALE UPDATES

COMM NO: 214042.01
DATE: APRIL 13, 2016
DRAWN: LDB DESIGN: LDB
CHECK: GKT
SHEET TITLE

PLAN & PROFILE
STA 29+02 TO 42+00

SHT. NO. C-101
REV. NO. 1

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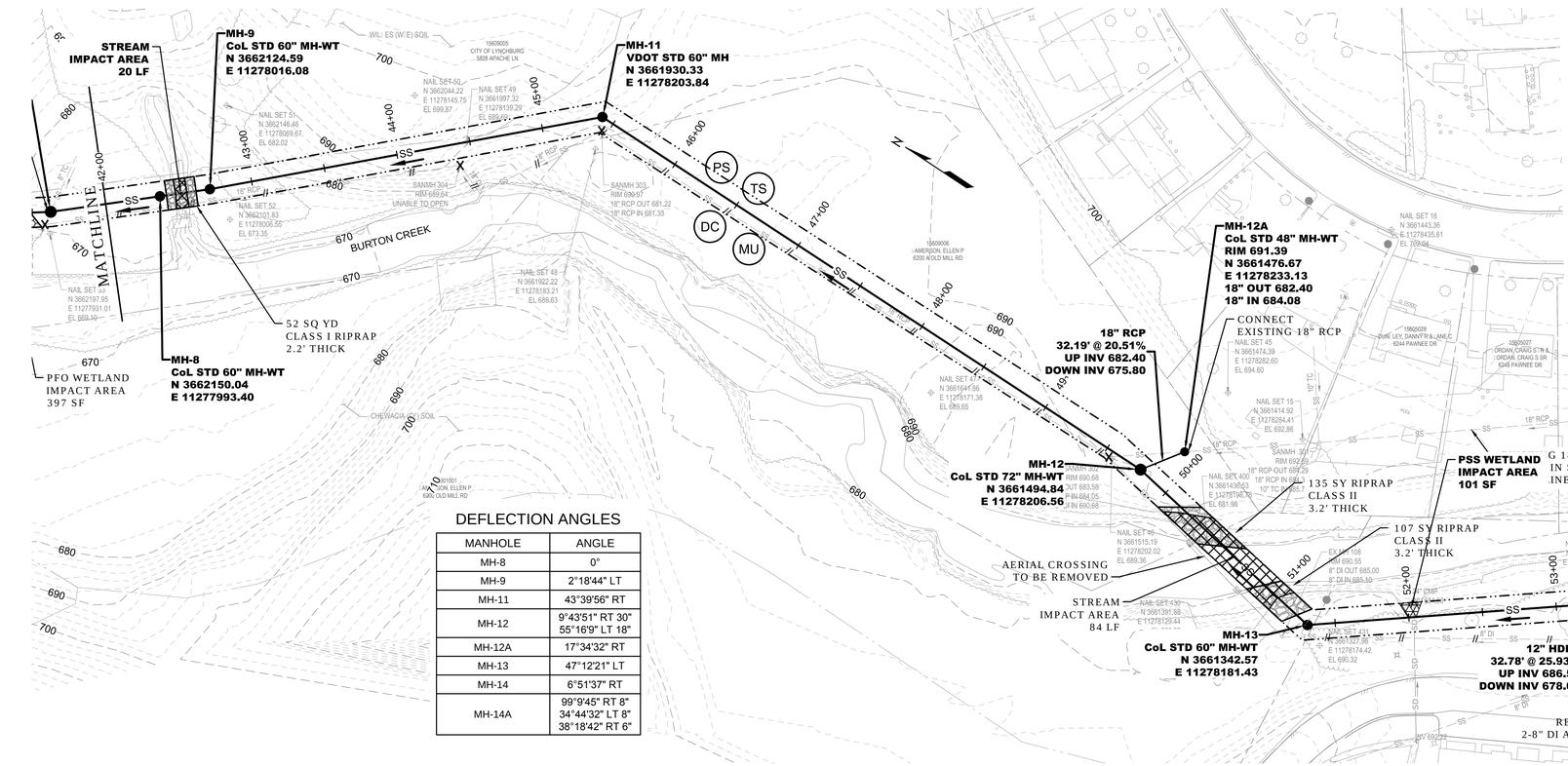
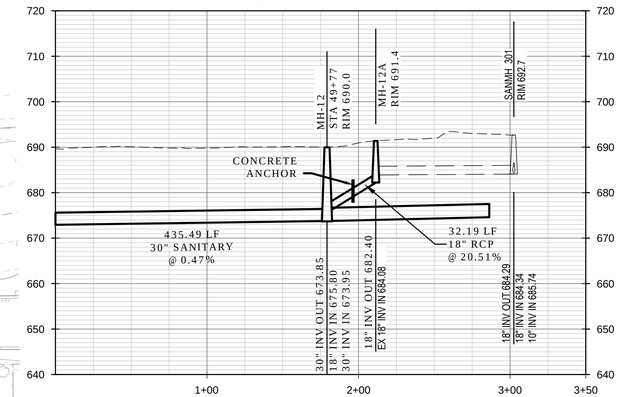
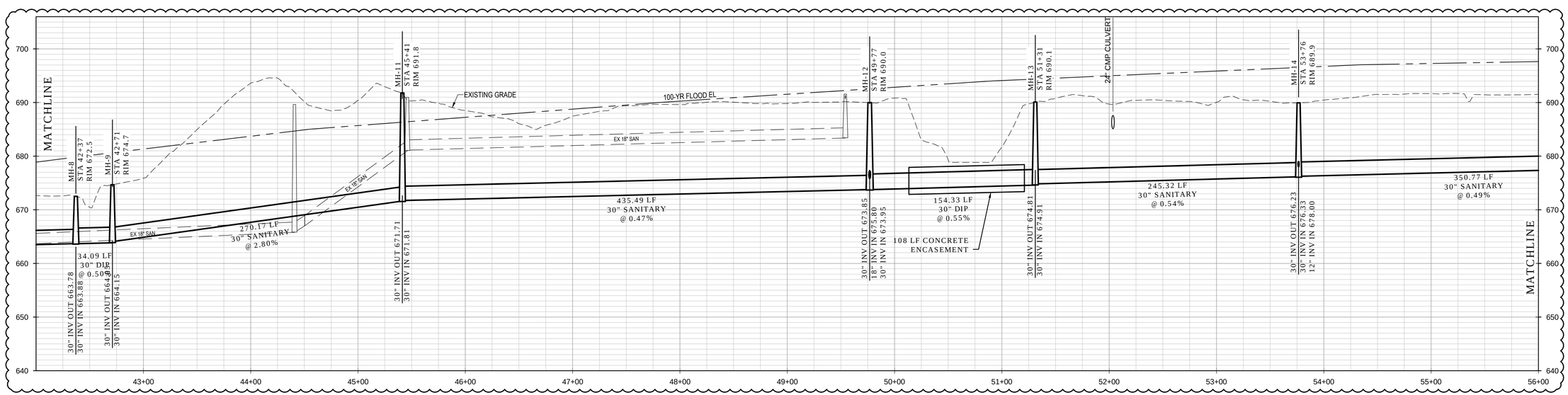




DEFLECTION ANGLES

MANHOLE	ANGLE
MH-8	0°
MH-9	2°18'44" LT
MH-11	43°39'56" RT
MH-12	9°43'51" RT 30" 55°16'9" LT 18"
MH-12A	17°34'32" RT
MH-13	47°12'21" LT
MH-14	6°51'37" RT
MH-14A	99°9'45" RT 8" 34°44'32" LT 8" 38°18'42" RT 6"



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SHEET TITLE

PLAN & PROFILE
STA 42+00 TO 56+00

SHT. NO. C-102
REV. NO. 0

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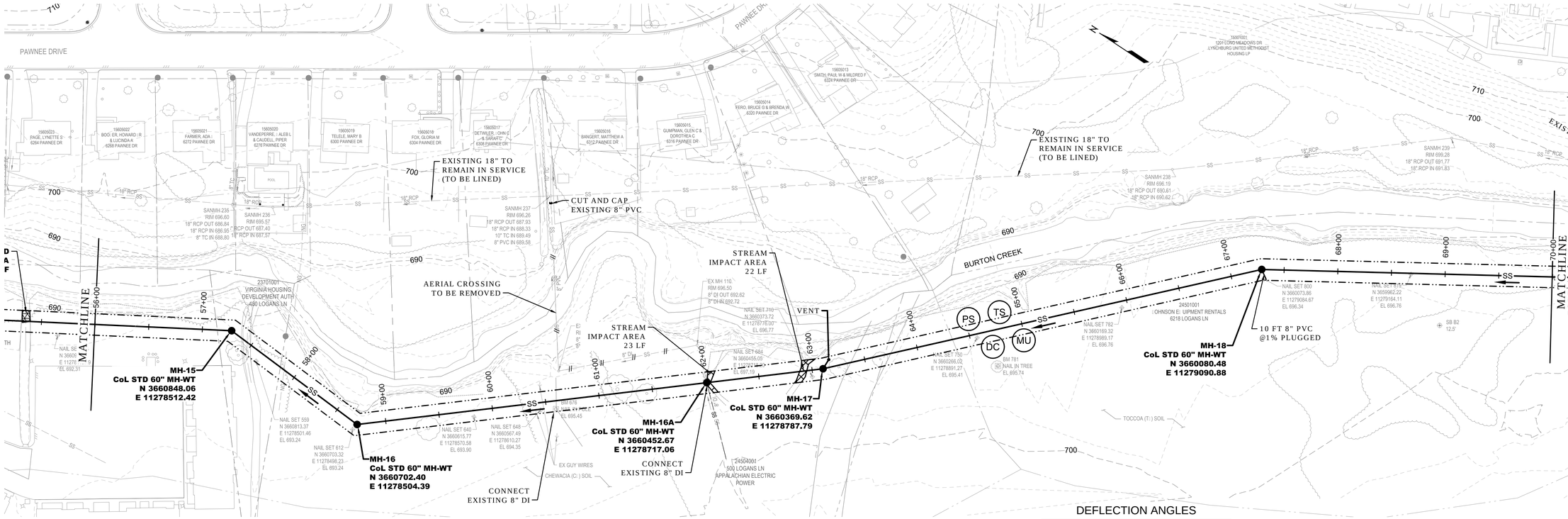
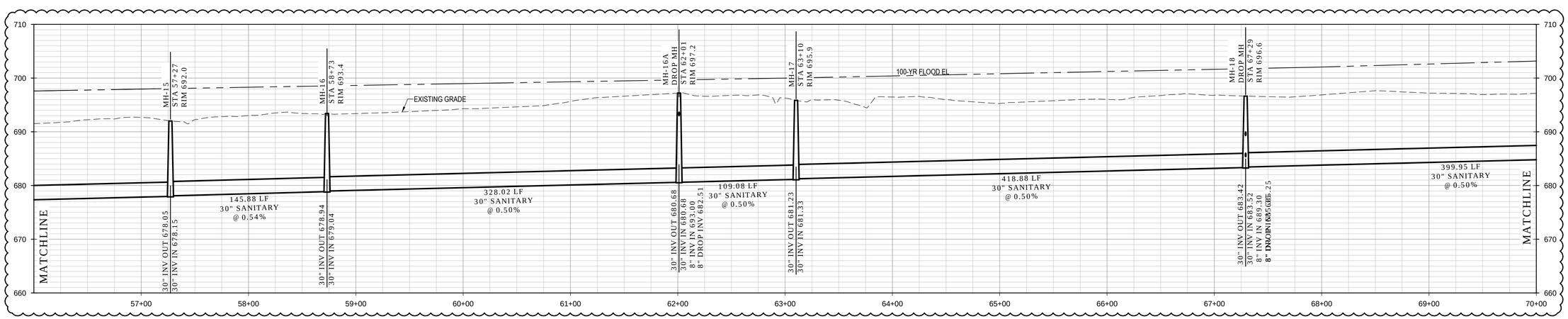


DEFLECTION ANGLES

MANHOLE	ANGLES
MH-15	34°7'39" RT
MH-16	43°34'21" LT
MH-16A	0° 30" 82°32'49" RT 8"
MH-17	5°55'55" LT
MH-18	14°13'13" RT 30" 78°21'39" RT 8"



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SHEET TITLE

PLAN & PROFILE
STA 56+00 TO 70+00

SHT. NO. C-103
REV. NO. 1

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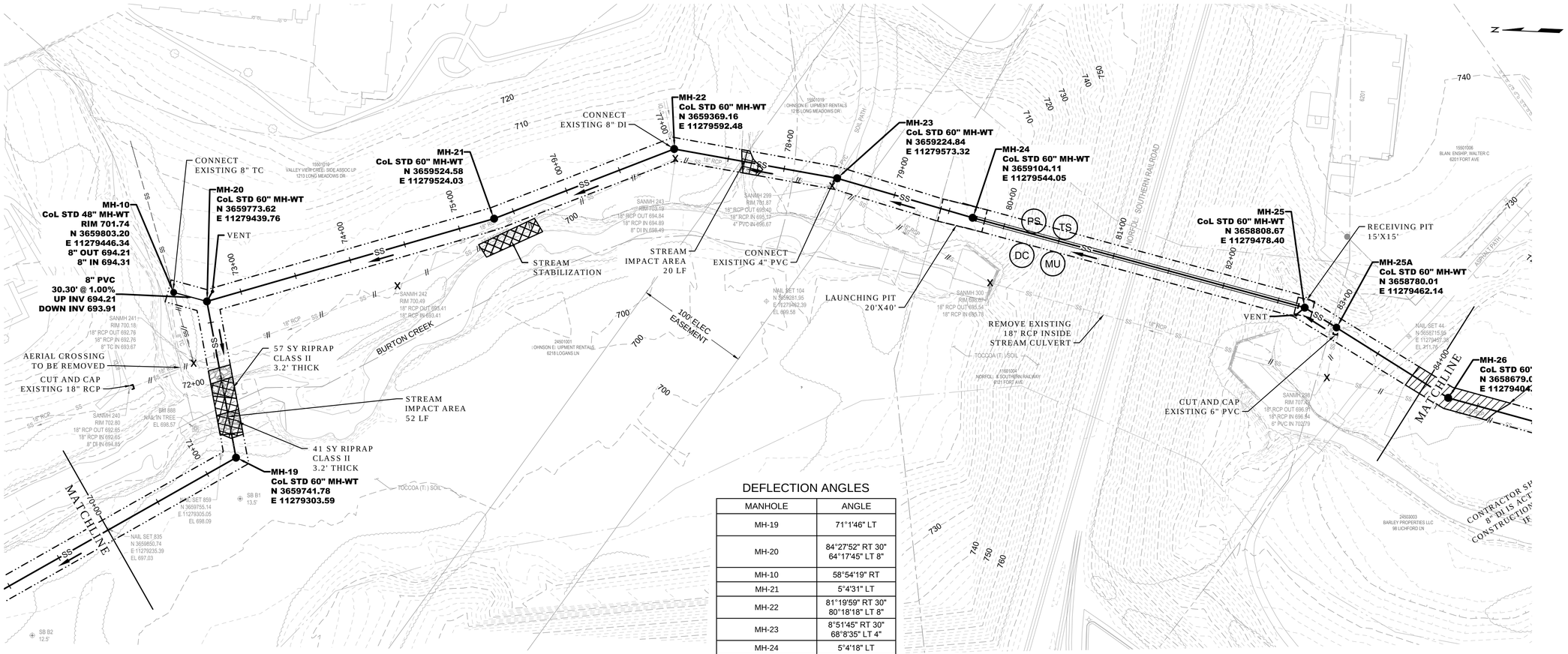
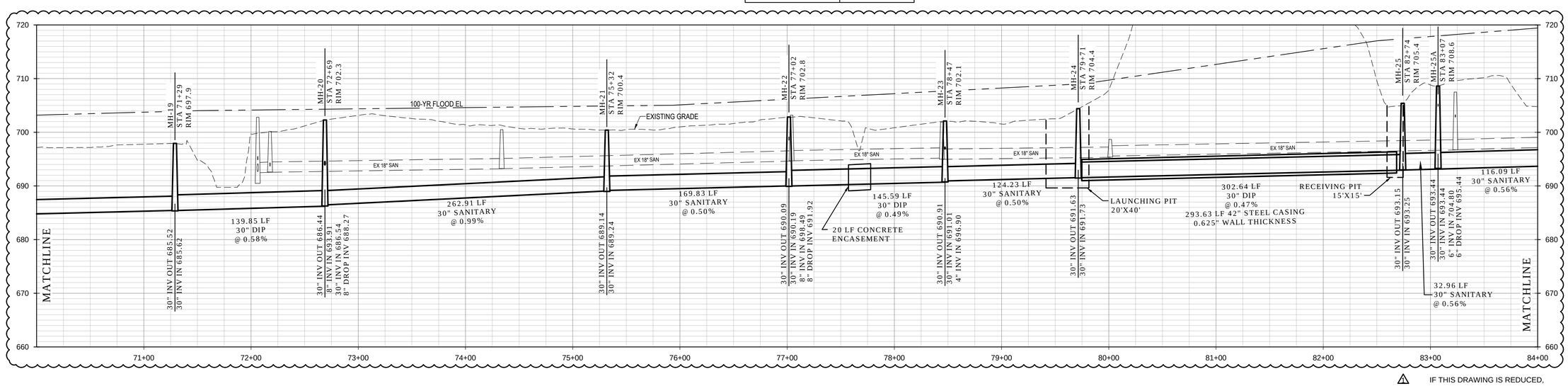


DEFLECTION ANGLES

MANHOLE	ANGLE
MH-19	71°1'46" LT
MH-20	84°27'52" RT 30" 64°17'45" LT 8"
MH-10	58°54'19" RT
MH-21	5°4'31" LT
MH-22	81°19'59" RT 30" 80°18'18" LT 8"
MH-23	8°51'45" RT 30" 68°8'35" LT 4"
MH-24	5°4'18" LT
MH-25	17°32'47" RT
MH-25A	0°



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4/15/16
PROFESSIONAL ENGINEER

CITY OF LYNCHBURG
DEPARTMENT OF WATER RESOURCES
BURTON CREEK INTERCEPTOR

LYNCHBURG, VIRGINIA

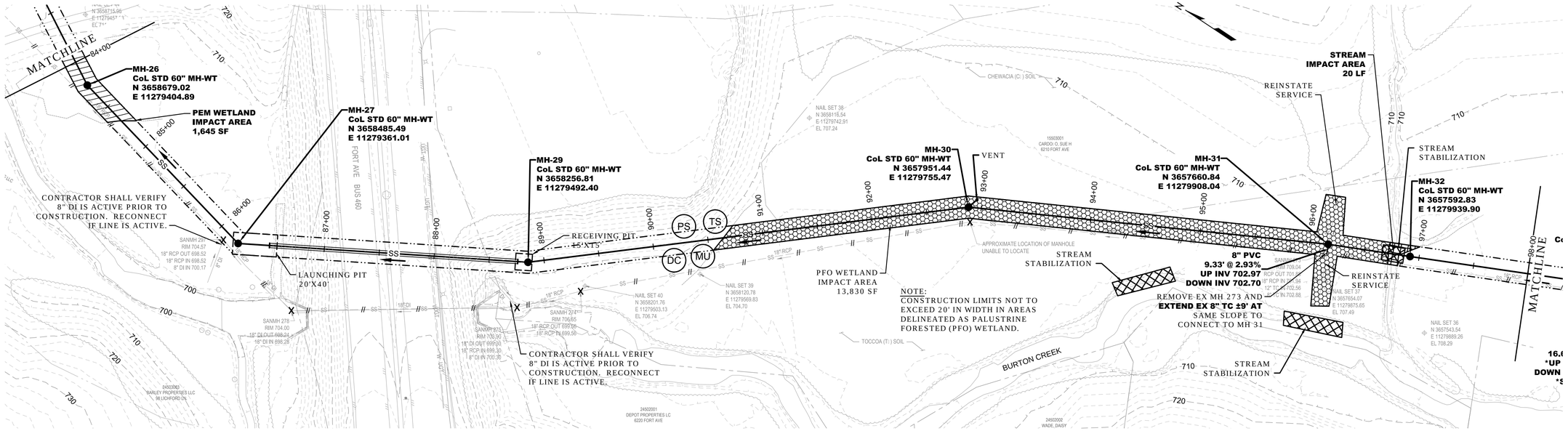
MRK	DATE	REVISION DESCRIPTION
1	7/29/2016	PROFILE SCALE UPDATES

COMM NO: 214042.01
DATE: APRIL 13, 2016
DRAWN: LDB DESIGN: LDB
CHECK: GKT
SHEET TITLE

PLAN & PROFILE
STA 70+00 TO 84+00

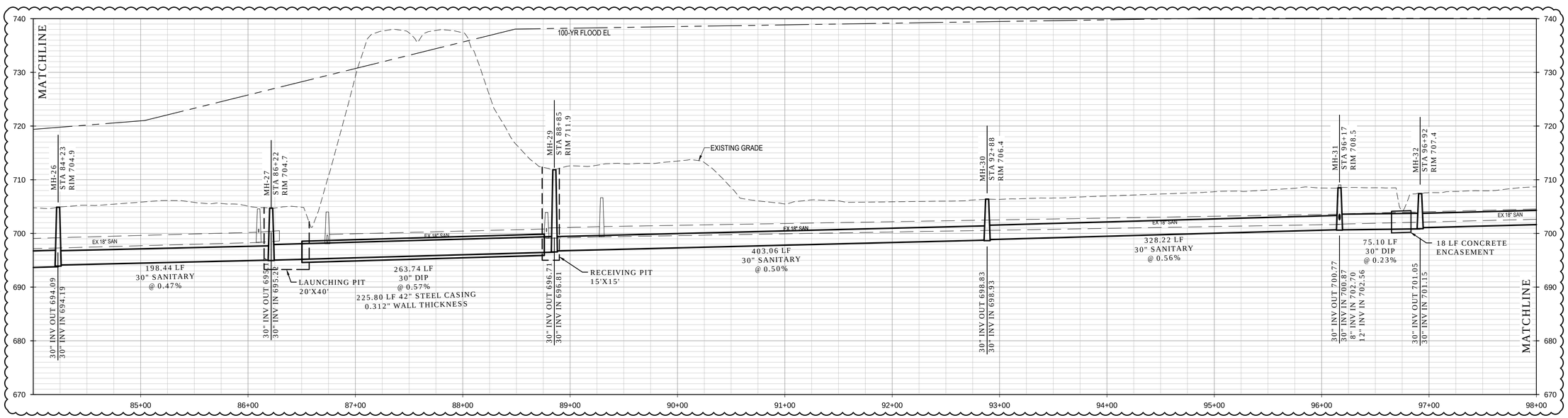
SHT. NO. C-104
REV. NO. 1

X:\2014\214042 LYBG BURTON CREEK AERIAL SURVEY\CAD\SHEETS\214042C-100.DWG 7/29/2016 11:51 AM



DEFLECTION ANGLES

MANHOLE	ANGLE
MH-26	16°7'29" LT
MH-27	42°39'23" LT
MH-29	10°51'48" LT
MH-30	13°2'38" RT
MH-31	2°36'14" RT 30" 87°48'50" LT 12" 93°47'3" RT 8"
MH-32	0°



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VERT: 1" = 10'
0 10' 20'
0 50' 100'
HORIZ: 1" = 50'

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COMMONWEALTH OF VIRGINIA
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LYNCHBURG, VIRGINIA

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PLAN & PROFILE
STA 84+00 TO 98+00

SHT. NO. C-105
REV. NO. 1

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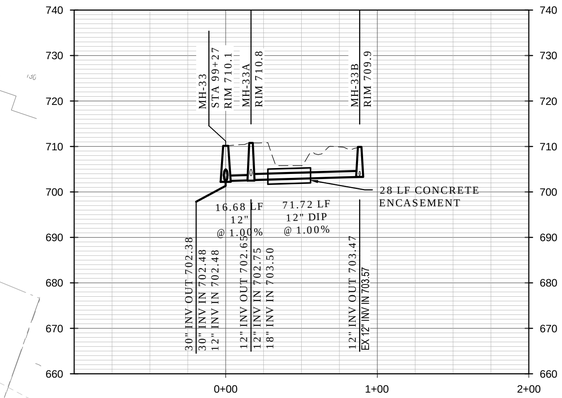
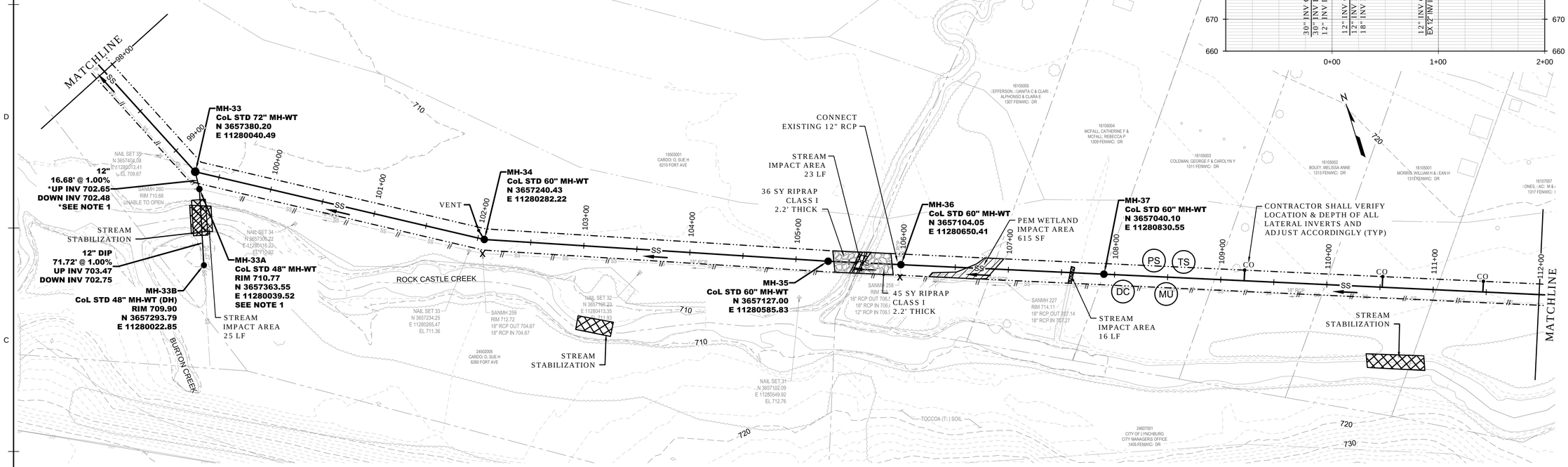
NOTES:

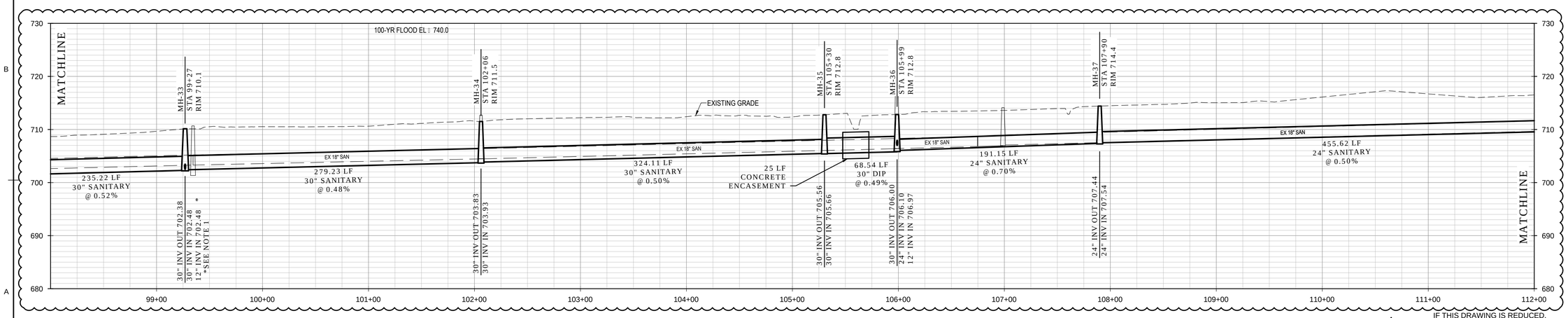
1. CONTRACTOR SHALL VERIFY LOCATION OF EX 12" TC INTO MH-33A SO MH-33B (DOGHOUSE) CAN BE SET ON EXISTING LINE.
2. CONTRACTOR SHALL VERIFY INVERTS OF EX MH 260 PRIOR TO CONSTRUCTION SO THAT THE EX 12" TC SHALL BE CONNECTED TO MH-33A. A 12" PIPE SHALL BE INSTALLED FROM MH-33 TO MH-33A. INVERT OF 12" INTO MH-33 SHALL BE NO HIGHER THAN EL 704.30.
3. CONTRACTOR SHALL VERIFY EX 12" TC INVERTS TO CONNECT TO MH-33B. INVERT ELEVATIONS MAY NEED TO BE ADJUSTED TO CONNECT TO MH-33A AND MH-33B TO MAINTAIN MIN 18" COVER WHERE PIPE CROSSES THE CREEK.

DEFLECTION ANGLES

MANHOLE	ANGLE
MH-33	34°38'37" LT 30" 28°39'10" RT 12"
MH-33A	10°6'18" RT
MH-33B	0°
MH-34	9°33'6" LT
MH-35	0°52'21" LT
MH-36	88°55'35" LT
MH-37	0°







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SHEET TITLE

PLAN & PROFILE
STA 98+00 TO
112+00

SHT. NO. C-106
REV. NO. 1

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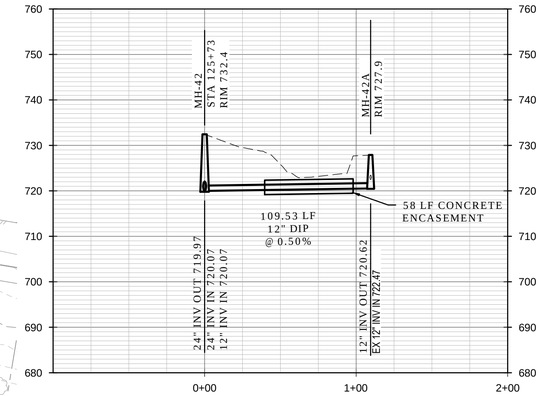
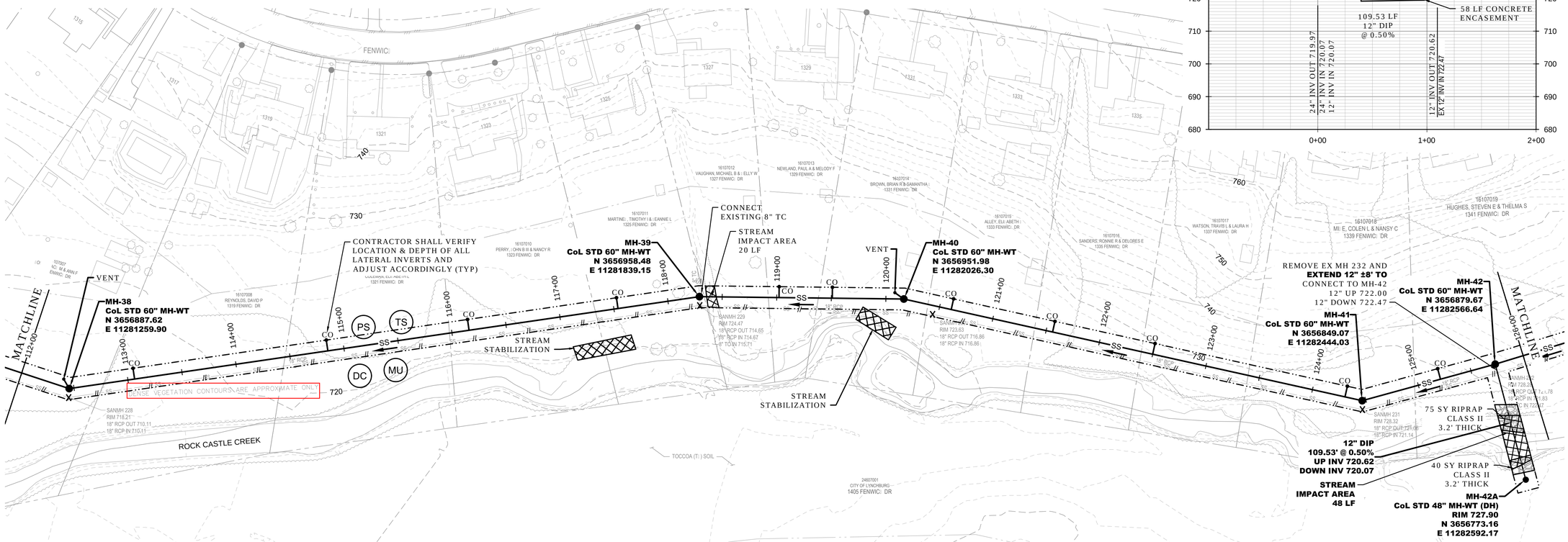
DEFLECTION ANGLES

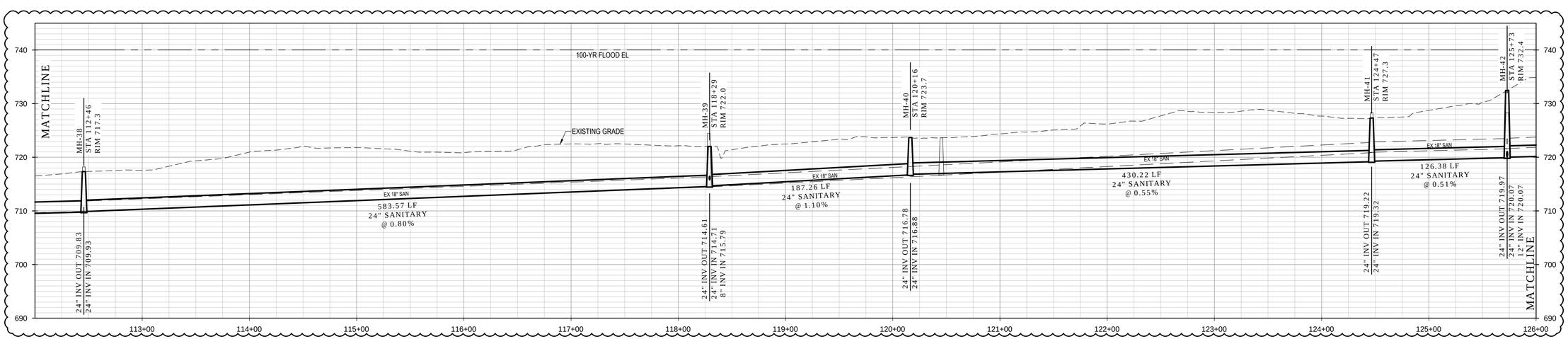
MANHOLE	ANGLE
MH-38	36°31'33" LT
MH-39	8°5'42" RT 24" 85°12'10" LT 8"
MH-40	11°51'10" RT
MH-41	27°51'16" LT
MH-42	1°37'28" LT 24" 90°32'18" RT 12"
MH-42A	0°

NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION OF EX 18" TC INTO MH-42 SO MH-42A (DOGHOUSE) CAN BE SET ON EXISTING LINE.
2. CONTRACTOR SHALL VERIFY INVERTS OF EX 18" TC INTO MH-42A. INVERT ELEVATIONS MAY NEED TO BE ADJUSTED TO CONNECT TO MH-42A AND MAINTAIN MIN 18" COVER WHERE PIPE CROSSES THE CREEK.







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SHEET TITLE

PLAN & PROFILE
STA 112+00 TO
126+00

SHT. NO. C-107
REV. NO. 1

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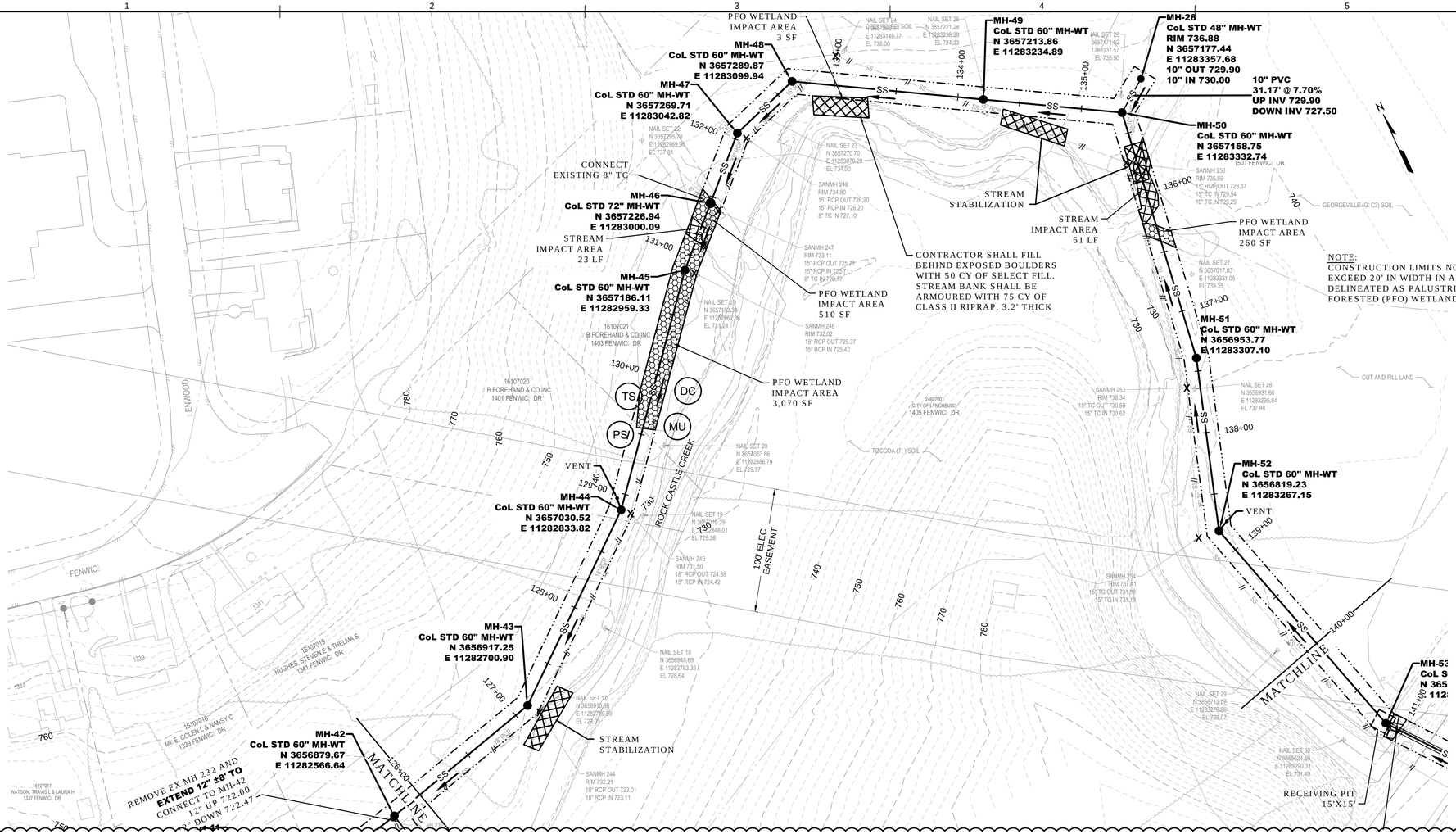
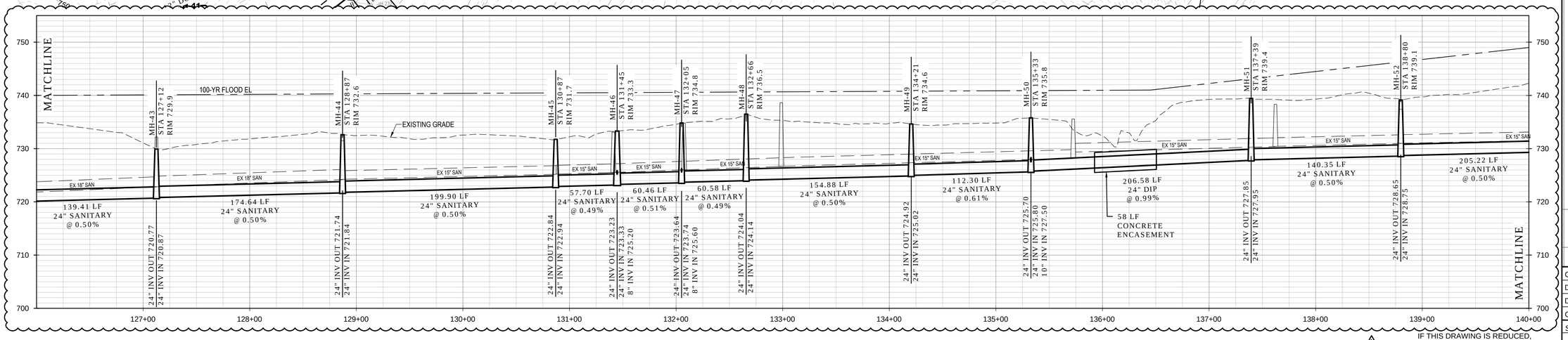


DEFLECTION ANGLES

MANHOLE	ANGLE
MH-43	24°47'48" LT
MH-44	10°40'18" LT
MH-45	6°3'24" RT
MH-46	0° 24" 64°49'23" LT 8"
MH-47	25°35'8" RT 24" 80°34'34" LT 8"
MH-48	48°49'55" RT
MH-49	0°
MH-50	67°44'22" RT 24" 66°13'41" LT 10"
MH-28	18°48'37" LT
MH-51	9°24'24" RT
MH-52	33°27'54" LT



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SHEET TITLE

PLAN & PROFILE
STA 126+00 TO
140+00

SHT. NO. C-108
REV. NO. 0

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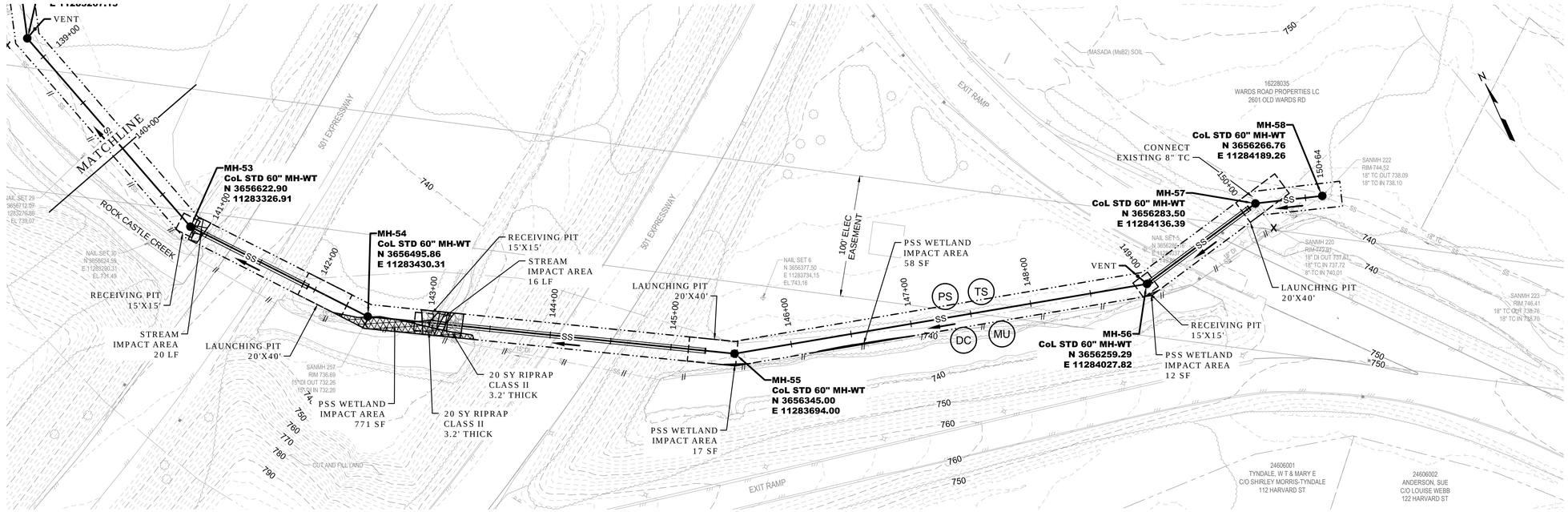
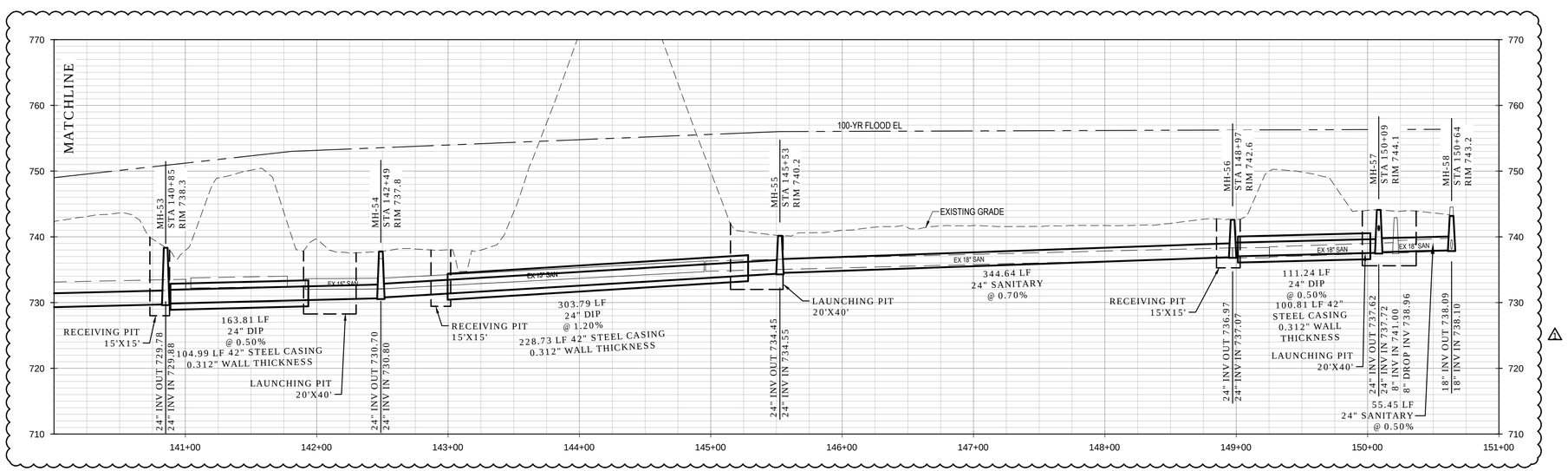
DEFLECTION ANGLES

MANHOLE	ANGLE
MH-53	22°12'56" LT
MH-54	21°4'54" LT
MH-55	15°22'28" LT
MH-56	26°58'16" LT
MH-57	30°8'18" RT 24" 90°31'37" LT 8"
MH-58	29°12'30" RT





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PLAN & PROFILE
STA 140+00 TO
150+65

SHT. NO. C-109
REV. NO. 1

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