

**GENERAL NOTES** 

UTILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION.

BASE FOR WORKING AND FOR PLACING STRUCTURES.

BACK FILL WITH SELECT EXCAVATED MATERIAL.

CONTRACTOR EXPENSE.

PERMIT FEES ARE RECEIVED AND APPROVED BY THE OWNER/INSTALLER.

THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO ALL APPLICABLE STANDARDS AND SPECIFICATIONS OF THE LOCAL, STATE AND FEDERAL REQUIREMENTS.

CONDITIONS OF THE CONTRACT DOCUMENTS, PRIOR TO BEGINNING CONSTRUCTION ON THIS PROJECT.

5. CONSTRUCTION OF THE IMPROVEMENTS SHOWN OR IMPLIED BY THIS SET OF DRAWINGS SHALL NOT BE

6. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE PLANS AND ONE (1) COPY OF THE

4. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL NOTIFY ALL THOSE COMPANIES WHICH HAVE

INITIATED OR ANY PART THEREOF UNDERTAKEN UNTIL ALL REQUIRED AND PROPERLY EXECUTED BONDS AND

APPROPRIATE CONSTRUCTION SPECIFICATIONS AND PROJECT MANUAL AT THE JOB SITE AT ALL TIMES. 7. LINEAL FOOT MEASUREMENTS SHOWN ON THE PLANS ARE HORIZONTAL MEASUREMENTS, NOT SLOPE

9. SILTATION AND EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE DISTURBANCE OF THE

CLEARING AND GRUBBING OPERATIONS AND DISPOSAL OF ALL DEBRIS SHALL BE PERFORMED IN ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES.

15. SEED AND MULCH ALL AREAS DISTURBED BY CONSTRUCTION. ALL EXISTING GRAVEL AREAS DISTURBED BY CONSTRUCTION SHALL BE RESURFACED WITH 4 INCHES MINIMUM ROAD AGGREGATE MATERIAL WHEN CONSTRUCTION IS COMPLETE.

16. PRIOR TO ORDERING PRECAST STRUCTURES, SHOP DRAWINGS SHALL BE SUBMITTED TO THE DESIGN ENGINEER

17. ALL EXCAVATION SHALL BE UNCLASSIFIED. NO SEPARATE PAYMENT WILL BE MADE FOR ROCK EXCAVATION.

18. SUBGRADE SOIL FOR ALL CONCRETE STRUCTURES, REGARDLESS OF THE TYPE OR LOCATION, SHALL BE FIRM, DENSE AND THOROUGHLY COMPACTED AND CONSOLIDATED, SHALL BE FREE FROM MUCK AND MUD; AND SHALL BE SUFFICIENTLY STABLE TO REMAIN FIRM AND INTACT UNDER THE FEET OF THE WORKMEN OR

19. PROPERTY PINS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED BY A LICENSED SURVEYOR AT

20. AT PLACES WHERE THE EXCAVATION INTERSECTS WITH EXISTING GAS LINES, THE CONTRACTOR SHALL NOTIFY THE OWNER SO THE GAS LINE CAN BE INSPECTED BEFORE BACK FILLING. THE TRENCH BACKFILL SHALL BE HAND COMPACTED FOR THREE FEET IN EITHER DIRECTION TO AN ELEVATION OF 1 FOOT ABOVE THE GAS LINE.

21. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SAFETY OF THE CONSTRUCTION WORKERS AND THE PUBLIC. THE GENERAL CONTRACTOR(S) AND SUBCONTRACTOR(S) ARE REQUIRED TO COMPLY WITH OSHA SAFETY RULES AS APPLICABLE TO THE SAFETY OF PERSONNEL, PROTECTION OF PROPERTY, AND WEARING OF PROTECTIVE EQUIPMENT. ALL WORKERS SHALL HAVE COMPLETED THE 10 HOUR OSHA SAFETY COURSE.

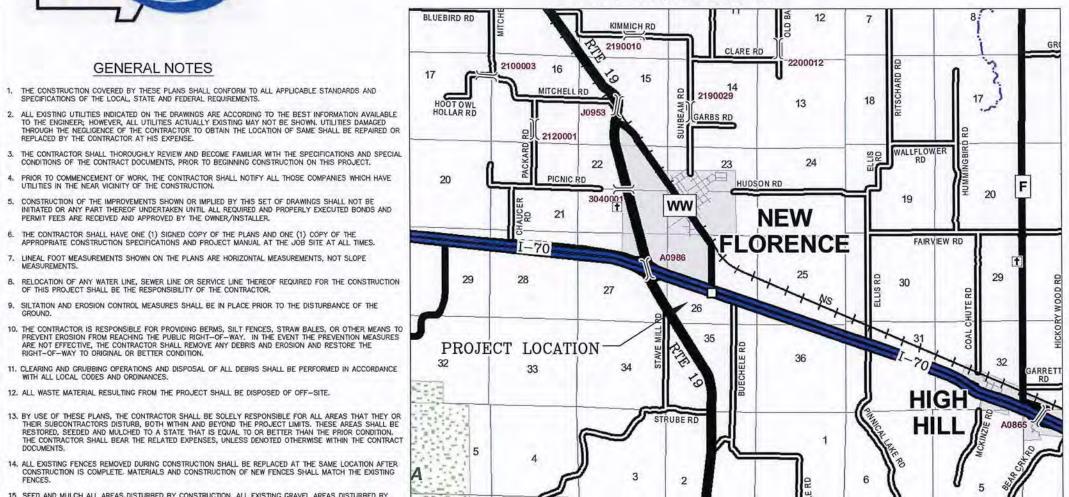
22. DIMENSIONS SHOWN FOR EQUIPMENT ARE APPROXIMATE AND MAY VARY DEPENDING ON MANUFACTURER SELECTED. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH EQUIPMENT MANUFACTURER PRIOR TO CONSTRUCTION OF THE RELATED STRUCTURE. 23. NOTE THAT NO REPORTS OF EXPLORATIONS OR TESTS OF SUBSURFACE CONDITIONS AT THE SITE (E.G. GEOTECHNICAL REPORTS), OR DRAWINGS OF PHYSICAL CONDITIONS RELATING TO EXISTING SURFACE OR SUBSURFACE STRUCTURES AT THE SITE, ARE KNOWN TO OWNER.

MACHINERY ENGAGED IN SUBGRADE SURFACING, LAYING REINFORCING STEEL, AND DEPOSITING CONCRETE
THEREON. IN ALL CASES WHERE SUBSOIL IS MUCKY OR WORKS INTO MUD OR MUCK DURING SUCH OPERATION,
A SEAL COURSE OF EITHER CONCRETE OR ROCK SHALL BE PLACED BELOW SUBGRADE TO PROVIDE A FIRM

12. ALL WASTE MATERIAL RESULTING FROM THE PROJECT SHALL BE DISPOSED OF OFF-SITE.

# MISSOURI DEPARTMENT OF TRANSPORTATION MAINTENANCE FACILITY NEW FLORENCE, MISSOURI

T48N, R5W, SECTION 26



# BENCHMARK

STEPPED NAILS IN POWER POLE ON SOUTH SIDE OF SOUTH OUTER ROAD, APPROX. STATION 10+00. ELEVATION = 852.87

CHISELED SQUARE ON CURB ON SOUTH SIDE OF SOUTH OUTER ROAD, APPROX. STATION 16+00. ELEVATION = 866.00

TELEPHONE /TV

AT&T

NEW FLORENCE TELEPHONE

CHARTER COMMUNICATIONS

CITY OF NEW FLORENCE 1-573-835-2106

ELECTRIC

AMEREN MISSOURI ELECTRIC

CITY OF NEW FLORENCE 1-573-835-2106

# PROJECT VICINITY MAP

## **LEGEND**

● IB_E ● IBPC_E	= EXIST IRON BAR = EXIST. IRON BAR W/ PLASTI	EXIST SEWER LINE EXIST MAJOR CONTOUR	SAN
• FPST ► FO O FH	= FENCE POST = FIBER OPTIC MARKER = FIRE HYDRANT	EXIST MINOR CONTOUR EXIST FLOW LINE TREE LINE	~~~~
►G •GTPST	= GAS MARKER = GATE POST	EXIST BUILDING EXIST EASMENT EXIST EDGE OF ASPHALT	
€GA ⊕ H&V	= GUY ANCHOR = CONTROL POINT	EXIST EDGE OF GRAVEL EXIST GRAVEL SHOULDER	
+ LP ▼MS	= LIGHT POLE = METAL SIGN	EXIST CHAINLINK FENCE EXIST OVERHEAD POWER	
ф <i>PP</i>	= POWER POLE	EXIST STORM PIPE EXIST PROPERTY LINE EXIST SEWER PIPE	
⊠RW ⊜ SSMH	= R/W MARKER = SANITARY SEWER MANHOLE	EXIST GAS LINE EXIST POWER	G
© STMH	= STORM MANHOLE	EXIST TELEPHONE LINE EXIST WATER LINE	
D TEP	= STUMP = TELEPHONE PEDESTAL	PROPOSED SEWER LINE PERMANENT EASEMENT	
<b>◆</b> TBM	= TEMP BENCHMARK	TEMPORARY EASEMENT	

= TREE

## INDEX

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WARREN

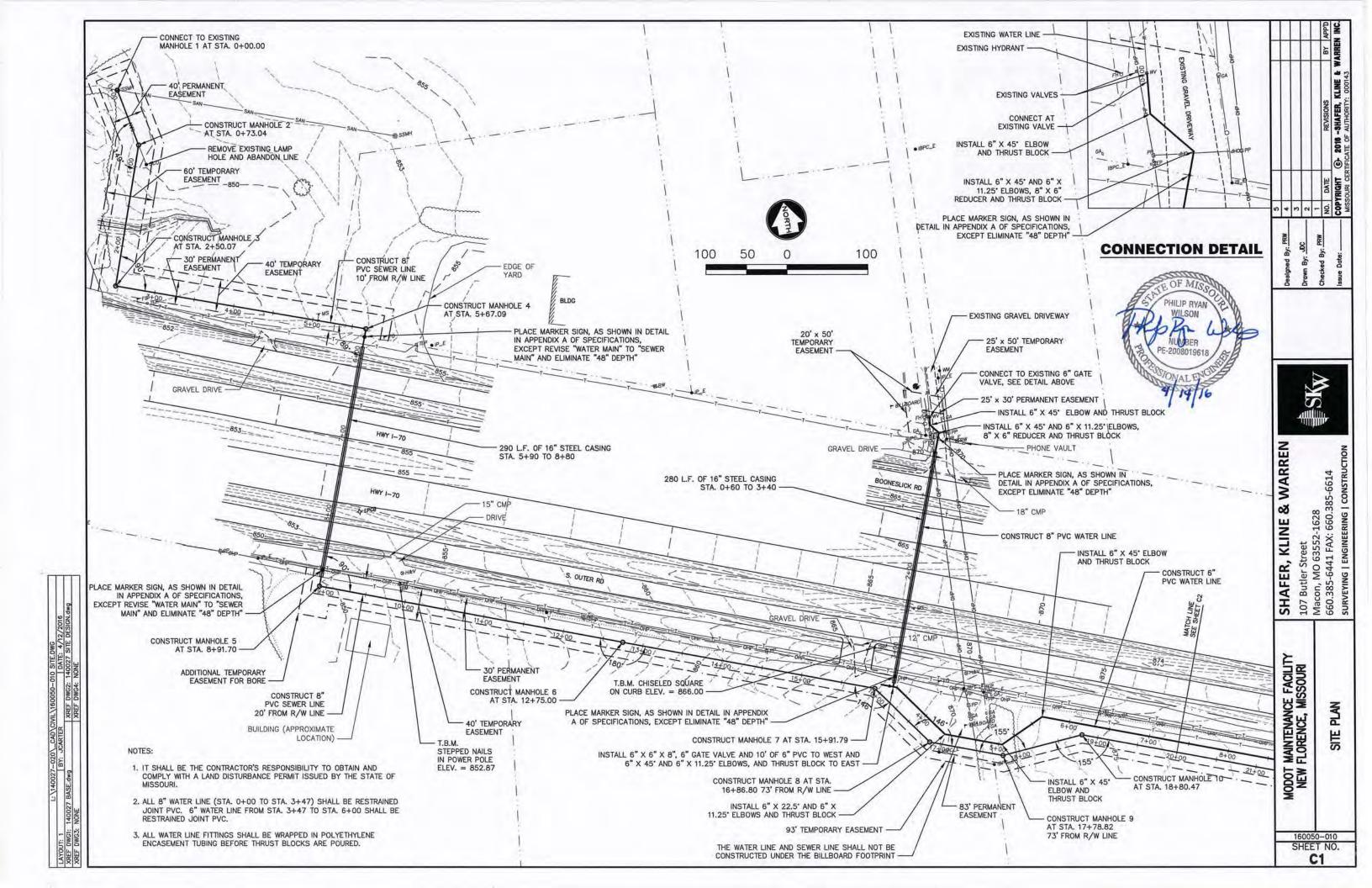
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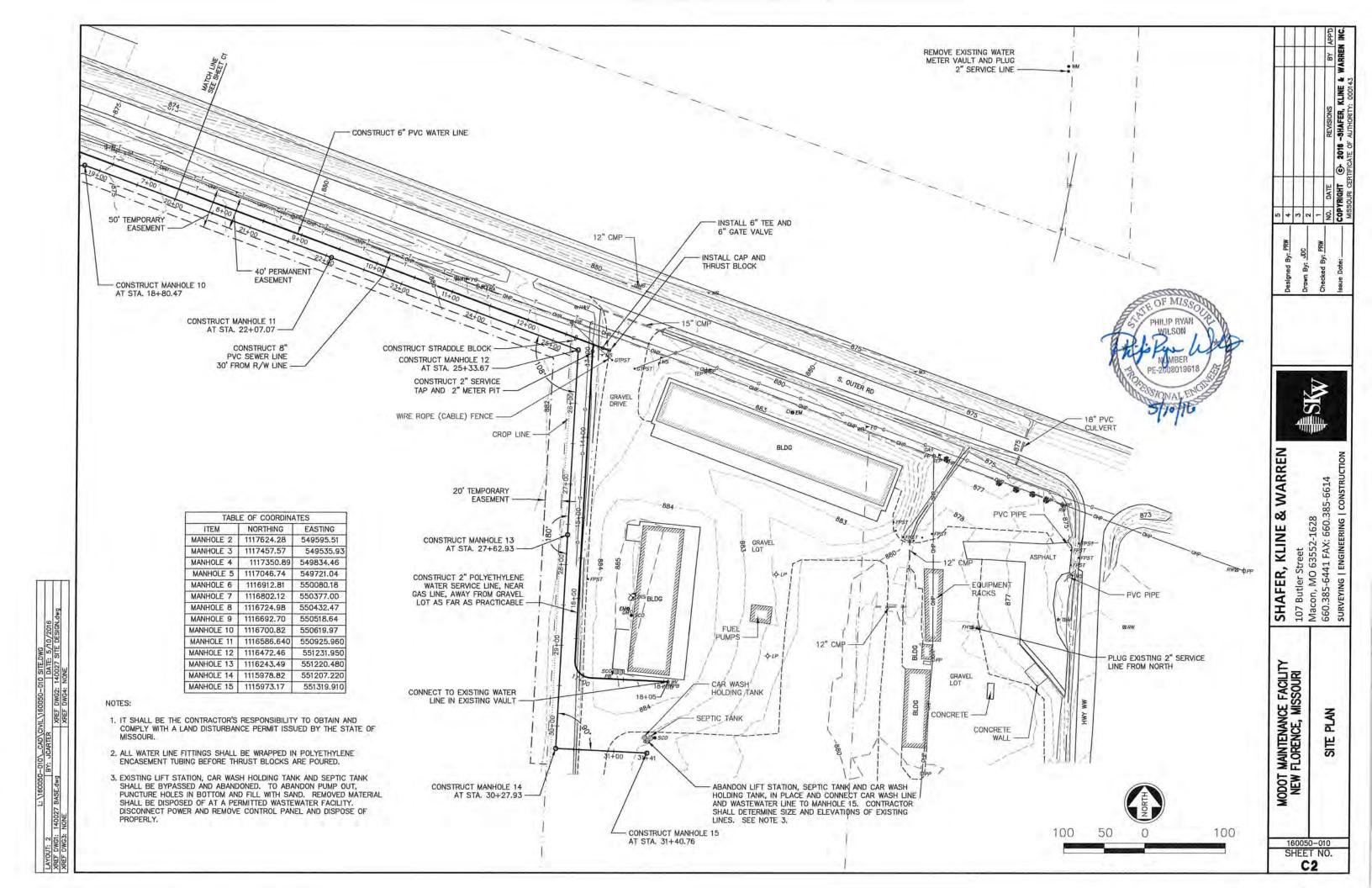
107 Butler Street Macon, MO 63552-1628 660.385-6441 FAX: 660.38 SURVEYING | ENGINEERING | C KLINE SHAFER,

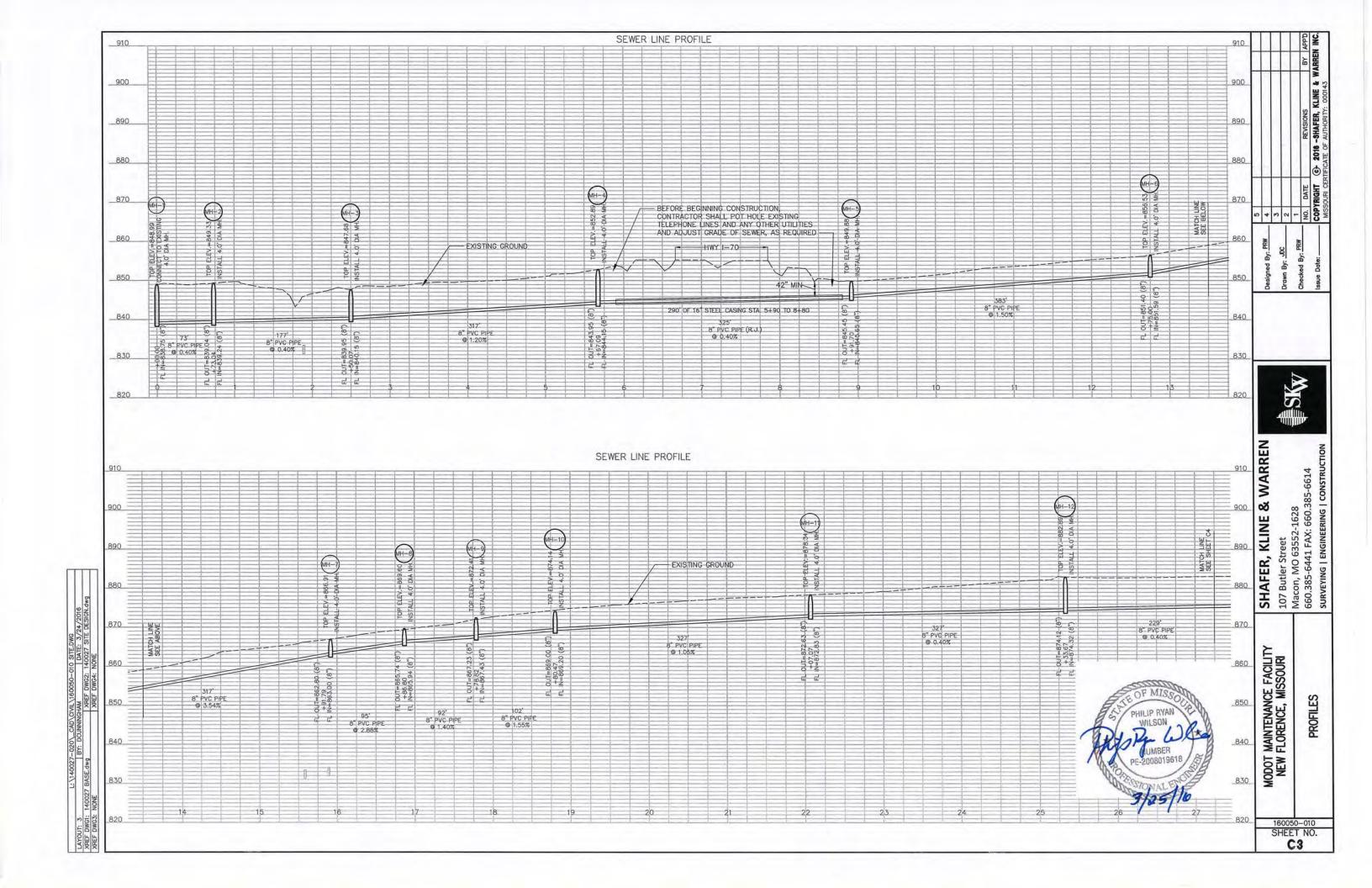
MAINTENANCE FACILITY FLORENCE, MISSOURI SEET

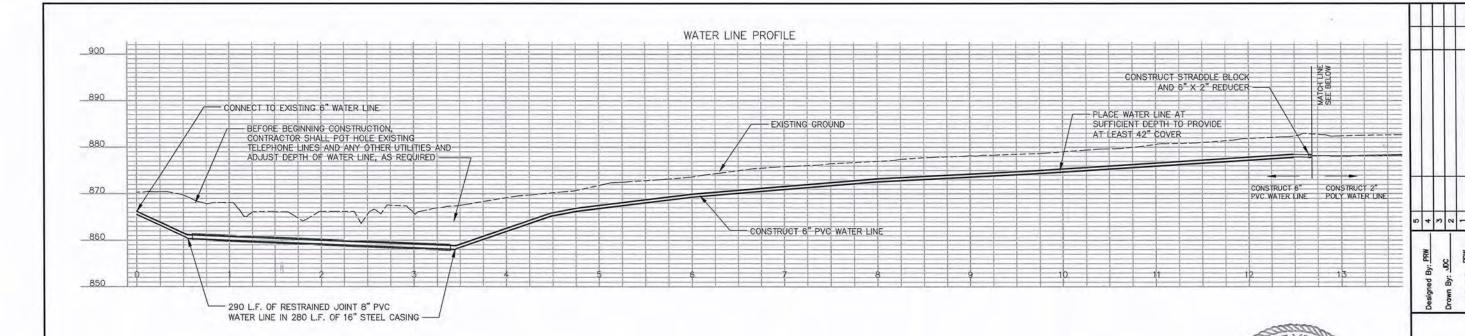
160050-010 SHEET NO. G1

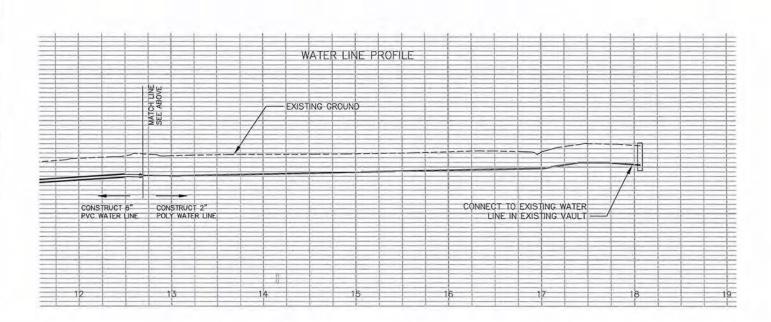
XREF DWG2: XREF DWG4:











INSTALL TRACER WIRE WITH WATER LINE AND SERVICE LINE AS SHOWN IN STANDARD DETAILS.
 COIL TRACER WIRE IN VALVE BOX OF EXISTING VALVE AT STA. 0+00.
 COIL TRACER WIRE IN METER PIT FOR WATER LINE AND SERVICE LINE.

INIL\\160050-010 SITE.DWG

SHAM | DATE: 3/24/2016

| XREF DWG2: 140027 SITE DESIGN.dwg
| XREF DWG4: NONE

L:\\140027-020\, CAD\\CIVII XREF DWGI: 140027 BASE.dwg | XREF DWGS: NONE

						910
	03 DIA MH-12		EXISTING GROUND	883.222 DIA MH-14	=882.74 F	900
AV TOTAN	MAICH LINE SEE SHEET C3 TOP ELEV.=883.05 INSTALL 4.0" DIA MH.		EXISTING GROUND	TOP ELEV	TOP ELEV	890
						880
	00T=875.24 (8°) +62.93 IN=875.44 (8°)		265' 8" PVC PIPE © 0.40%	OUT=876.49 (B7) +27.93 N=876.69 (87)	8" PVC PIPE 7	870
	FL 00T=			3 4	3+	860
	le le					850
						840
						830
7		28	29	30	31	32 820



PHILIP RYAN

SHAFER, KLINE & WARREN

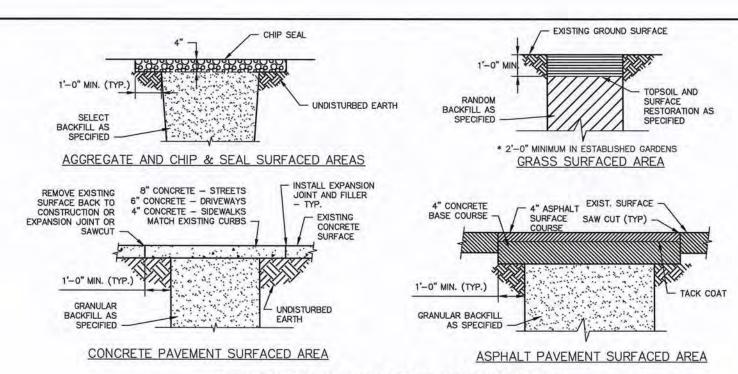
107 Butler Street

Macon, MO 63552-1628
660.385-6441 FAX: 660.385-6614
surveying | engineering | construction

MODOT MAINTENANCE FACILITY NEW FLORENCE, MISSOURI

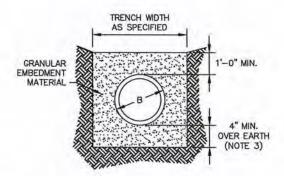
160050-010 SHEET NO.

C4



## **SEWER TRENCH RESTORATION DETAILS**

NOT TO SCALE



### NOTES:

- 1. REFER TO THE PROJECT MANUAL FOR TRENCH WIDTH, COMPACTION REQUIREMENTS, AND EMBEDMENT CLASS SCHEDULE.
- GRANULAR BACKFILL MATERIAL SHALL BE USED IN PLACE OF SELECT BACKFILL MATERIAL BENEATH STRUCTURES AND PAVED AREAS.
- 3. DIMENSION OVER ROCK SHALL BE B/4, 6" MIN.

# **SEWER PIPE EMBEDMENT DETAILS**

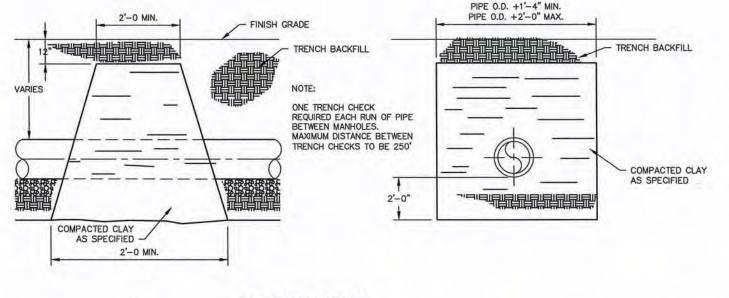
NOT TO SCALE

B. SHAFER, KLINE & WARREN 107 Butler Street Macon, MO 63552-1628 660.385-6441 FAX: 660.385-6614 MAINTENANCE FACILITY FLORENCE, MISSOURI SEWER DETAILS MODOT N 160050-010 SHEET NO. C5

| 174 | 160050-010 DETAILS.DWG | DATE: 3/24/2016 | XREF DWG2: NONE | XREF DWG4: NONE

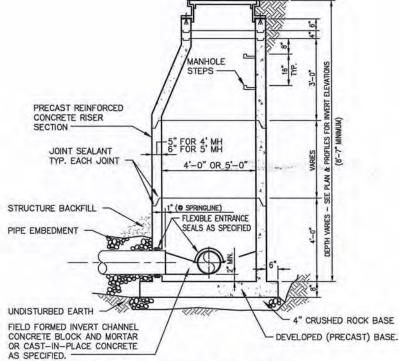
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## 4'-0" DIAMETER SHALLOW MANHOLE NOT TO SCALE

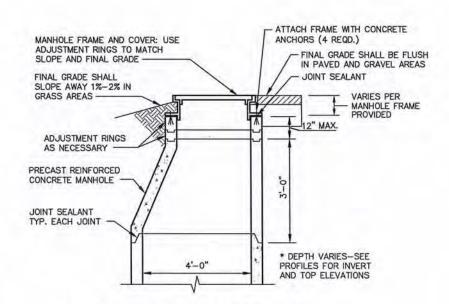


TRENCH CHECK NOT TO SCALE

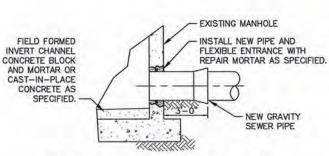




STANDARD MANHOLE NOT TO SCALE



STANDARD MANHOLE TOP



CONNECTION AT EXISTING MANHOLE DETAIL NOT TO SCALE

MAINTENANCE FACILITY FLORENCE, MISSOURI SEWER DETAILS MODOT I

SKW

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160050-010 SHEET NO.

C6

## **BORE AND CASING**

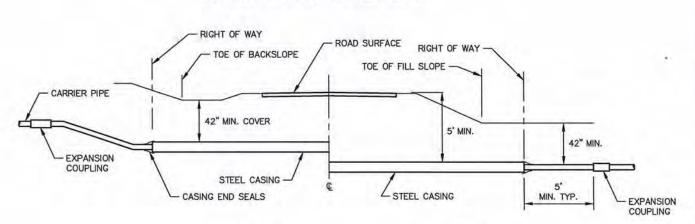
NOT TO SCALE

#### CASING DETAIL NOTES

- 1. STEEL CASINGS FOR BORED OR JACKED CONSTRUCTION SHALL BE STEEL PIPE CONFORMING TO ASTM A-139 WITH A MINIMUM DIAMETER AS INDICATED ON THE SITE PLAN. MINIMUM YIELD STRENGTH SHALL BE 35,000 P.S.I.
- 2. MINIMUM WALL THICKNESS FOR STEEL CASING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
- 3. STEEL SHALL BE GRADE B UNDER RAILROADS AND GRADE A UNDER ALL OTHER SURFACES. INSTALLATION UNDER RAILROADS SHALL BE BY DRY BORE AND JACK. WET BORE IS NOT PERMITTED.
- 4. CASING SPACERS SHALL BE USED WITH ALL CASING. CASING SPACERS SHALL HAVE A MINIMUM OF 3 RUNNERS AND SHALL HOLD THE CARRIER PIPE IN THE CENTER OF THE CASING.
- 5. CASING ENDS SHALL BE SEALED WITH SYNTHETIC RUBBER, WRAP-AROUND END SEALS WITH STAINLESS STEEL

#### NOTES:

- 1. CASING SHALL EXTEND 5'-0" BEYOND RIGHT-OF-WAY UNLESS OTHERWISE SHOWN ON PLAN SHEETS.
- 2. CASING MATERIAL SHALL BE AS SHOWN ON PLAN AND PROFILE SHEETS. SEE CASING SPACER DETAIL FOR WALL THICKNESS
- 3. INSTALL CASING SPACERS AND END SEALS BASED ON CARRIER AND CASING SIZES. SEE BORE AND CASING DETAIL.
- 4. CARRIER PIPE SHALL HAVE RESTRAINED JOINTS. CARRIER PIPE SHALL EXTEND A MINIMUM OF 5'-0" BEYOND EACH END OF
- 5. THE MODOT UTILITY ACCOMMODATION POLICY AND THE HIGHWAY PERMIT AGREEMENT SHALL BE FOLLOWED AND WILL SUPERSEDE CONTRACT PLANS AND SPECIFICATIONS.
- 6. ALL MODOT ROAD CROSSINGS SHALL BE BORED.



CUT SECTION

FILL SECTION

# **MODOT ROAD CROSSING**

NOT TO SCALE

WARREN SHAFER, KLINE & WARR 107 Butler Street Macon, MO 63552-1628 660.385-6441 FAX: 660.385-6614

> DETAILS CROSSING

MAINTENANCE FACILITY FLORENCE, MISSOURI MODOT I

> SHEET NO. **C7**

| 140027-020\\_CAD\CMI\\160050-010 DETAILS.DWG | BY: DCJINNINGHAM | DATE: 3/24/2016 | XREF DWG: NONE | XREF D

#### GENERAL EROSION CONTROL NOTES:

- 1. THE CONTRACTOR SHALL OBTAIN AN APPROPRIATE LAND DISTURBANCE PERMIT FROM MDNR.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING A STORM WATER POLLUTION PREVENTION PLAN (PPP) AT THE TIME THE PROJECT BREAKS GROUND. A COPY OF THE PPP SHALL BE AVAILABLE ON SITE AT ALL TIMES. THE PLAN SHOULD FOLLOW CLOSELY TO THE E.P.A. GUIDANCE DOCUMENT, STORM WATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES — DEVELOPING POLLUTION PREVENTION PLANS AND BEST MANAGEMENT PRACTICES, U.S. E.P.A., OFFICE OF WATER, EPA 832-R-92-005 (SEPTEMBER 1992).
- 3. THE EROSION CONTROL FEATURES, NOTES AND SPECIFICATIONS IN THE PPP SHALL REPRESENT THE MINIMUM REQUIREMENTS ACCEPTABLE. LOCATIONS SHALL BE CONSIDERED TYPICAL AND MAY VARY ACCORDING TO CONTRACTORS STAGING AND LIMITS OF CONSTRUCTION. THE CONTRACTOR SHALL ADJUST, MODIFY AND ADD TO THE PLAN AS NECESSARY TO CONTROL EROSION, SILTATION AND
- 4. IT SHALL BE EACH CONTRACTOR'S RESPONSIBILITY TO CONTROL EROSION AND PREVENT POLLUTION FOR ALL WORK WHICH THEY ARE DIRECTLY INVOLVED.
- 5. EROSION CONTROL DEVICES ALONG THE DOWN SLOPE SIDE OF THE PROJECT SHALL BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY GRADING WORK.
- 6. WHEN POSSIBLE, WITHOUT ADVERSELY AFFECTING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL: MINIMIZE THE AMOUNT OF SURFACE AREA WHICH IS EXPOSED AT ONE TIME, LEAVE GRADED AREAS WITH A ROUGH TEXTURE, CONSTRUCT TEMPORARY TERRACES DURING GRADING OPERATIONS, AND LIMIT UNNECESSARY VEHICLE TRAFFIC IN GRADED AREAS.
- THE SPILLAGE OF DEBRIS, INCLUDING THE TRACKING OF SOIL, OUTSIDE OF THE CONSTRUCTION LIMITS SHALL BE AVOIDED. THEREFORE THE CONTRACTOR SHALL PROVIDE STABILIZED DRIVES AT ALL ACCESS LOCATIONS AS NECESSARY AND SHALL REMOVE PROMPTLY ANY MATERIAL WHICH FINDS ITS WAY INTO THE PUBLIC RIGHT-OF WAY.
- STRAW BALE DIKES OR SILT FENCES SHALL BE PLACED ON A CONTOUR ELEVATION ALONG THE DOWNHILL SIDE AND FOR THE FULL EXTENT OF THE DISTURBED AREAS WITHIN THE CONSTRUCTION LIMITS. THE LAST FIVE FEET ON EACH END OF RUN OF SILT FENCE/STRAW BALE DIKE SHALL BE PLACED FACING UPHILL AT 90 DEGREES TO THE CONTOUR LINE.
- 9. THE CONTRACTOR SHALL PREVENT SILT FROM ENTERING DRAINAGE CULVERTS, STRAW BALE DIKES/SILT FENCE PLACED AROUND ALL STORM SEWER INLETS EXCEPT DURING CONSTRUCTION OPERATIONS WHICH REQUIRE THEIR REMOVAL IS ONE METHOD OF MEETING THE ABOVE REQUIREMENT.
- 10. EACH CONTRACTOR SHALL INSPECT THEIR EROSION CONTROL DEVICES EVERY 7 DAYS OR WITHIN 24 HOURS OF A STORM OF 0.5 INCHES OR MORE IN DEPTH. THE CONTRACTOR SHALL REPAIR DAMAGE, CLEAN OUT SILT AND ADD ADDITIONAL CONTROL DEVICES AS NEEDED AS SOON AS PRACTICABLE AFTER INSPECTION. DEFICIENCIES MUST BE CORRECTED WITHIN 7 DAYS OF INSPECTION.
- 11. ALL AREAS UPON REACHING FINAL GRADE SHALL BE BROUGHT TO FINAL PLAN CONDITION (PAVED, MULCHED AND SEEDED, SODDED, OR OTHER) AS SOON AS POSSIBLE. EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL ALL SOIL DISTURBING ACTIVITIES ARE COMPLETE AND A UNIFORM PERENNIAL COVER WITH A DENSITY OF 70 % (MINIMUM) FOR UNPAVED AREAS IS ESTABLISHED.
- 12. WHERE GRADED AREAS DRAIN ONTO PAVED AREAS, SILT FENCE/STRAW BALE DIKE SHALL BE PLACED AT THE BACK OF CURB TO PREVENT SILT FROM ENTERING THE PAVED AREAS. WHEN THESE EROSION CONTROL DEVICES ARE NOT PLACED ON THE CONTOUR, THEN THEY SHALL HAVE INSTALLED AT 50' INTERVALS A 5' LENGTH PLACED AT 90 DEGREES TO THE MAIN LENGTH.

# **EROSION CONTROL NOTES**

## COMPOST BERM MULCH NOTES: GENERAL NOTE:

- 1. THE SILT CONTROL BERM SHALL BE PLACED UNCOMPACTED IN A WINDROW AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- PARALLEL TO THE BASE OF THE SLOPE, OR AROUND THE PERIMETER OF OTHER AFFECTED AREAS, CONSTRUCT A 1 TO 1.5 FOOT HIGH BY 2.5 TO 3 FOOT HIGH TRAPEZOIDAL BERM THAT IS APPROXIMATELY 2 TO 3 FOOT WIDE AT THE TOP AND A MINIMUM OF 4 FEET WIDE AT THE BASE, IN EXTREME CONDITIONS, OR WHERE SPECIFIED BY THE ENGINEER, A SECOND BERM SHALL BE CONSTRUCTED AT THE TOP OF THE SLOPE. ENGINEER SHALL SPECIFY BERM REQUIREMENTS.
- 3. IF BERM IS TO BE LEFT AS A PERMANENT OR PART OF THE NATURAL LANDSCAPE, THE COMPOST BERM MAY BE SEEDED DURING APPLICATION FOR PERMANENT VEGETATION. THE ENGINEER/LANDSCAPE ARCHITECT SHALL SPECIFY SEED REQUIREMENTS.
- 4. DO NOT USE COMPOST BERMS IN ANY RUNOFF CHANNELS.

#### SILT FENCE NOTES: A) INSTALLATION

- THE HEIGHT OF SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE AND SHALL NOT EXCEED 34 INCHES ABOVE THE GROUND SURFACE.
- THE FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE UNAVOIDABLE, FILTER CLOTH SHALL BE SECURELY SPLICED TOGETHER ONLY AT SUPPORT POSTS, WITH A MAX 6 INCH OVERLAP
- DIG A TRENCH AT LEAST 6 INCHES DEEP AND 4 INCHES WIDE ALONG THE TRENCH ALIGNMENT.
- DRIVE POSTS AT LEAST 24 INCHES INTO THE GROUND ON THE DOWNSLOPE SIDE OF THE TRENCH. SPACE POSTS A MAXIMUM OF 6 FEET APART.
- EXTRA-STRENGTH SEDIMENT FENCE FABRIC SHALL BE USED. POST FOR THIS TYPE OF FABRIC SHALL BE PLACED A MAXIMUM OF 6 FEET APART. THE SEDIMENT FABRIC SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING A MINIMUM OF ONE INCH LONG, HEAVY-DUTY WIRE STAPLES OR TIE-WIRES, AND EIGHT INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
- PLACE THE BOTTOM 1 FOOT OF FABRIC IN THE MINIMUM-OF-6-INCH DEEP TRENCH, LAPPING TOWARD THE UPSLOPE SIDE. BACKFILL WITH COMPACTED EARTH OR GRAVEL.
- IF A SILT FENCE IS TO BE CONSTRUCTED ACROSS A DITCH LINE OR SWALE, IT MUST BE OF SUFFICIENT LENGTH TO ELIMINATE ENDFLOW, AND THE PLAN CONFIGURATION SHALL RESEMBLE AN ARC OR HORSESHOE, PLACED ON A CONTOUR, WITH THE ENDS ORIENTED UPSLOPE. EXTRA-STRENGTH SILT FABRIC SHALL BE USED WITH A MAXIMUM 3-FOOT SPACING OF POSTS.
- TO REDUCE MAINTENANCE, EXCAVATE A SHALLOW SILT STORAGE AREA IN THE UPSLOPE SIDE OF THE FENCE. PROVIDE GOOD ACCESS IN AREA OF HEAVY SILTATION FOR CLEAN OUT AND MAINTENANCE.
- SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

#### B) TROUBLESHOOTING:

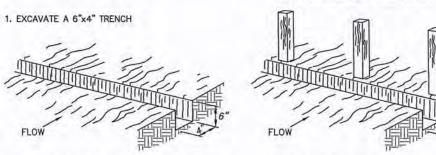
BOTTOM OF THE TRENCH.

- DETERMINE THE EXACT LOCATION OF UNDERGROUND UTILITIES, BEFORE FENCE INSTALLATION SO UTILITIES ARE NOT DISTURBED.
- GRADE ALIGNMENT OF FENCE NEEDED TO PROVIDE A BROAD, NEARLY LEVEL AREA UPSTREAM OF FENCE TO ALLOW SILT COLLECTION AREA.

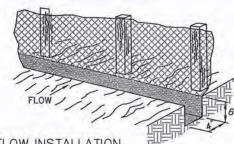
#### C) INSPECTION MAINTENANCE:

- INSPECT SILT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED
- SHOULD THE FABRIC OF A SILT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE,
- REMOVE SILT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE, AVOID DAMAGING OR UNDERMINING THE FENCE DURING CLEANOUT. SILT ACCUMULATION SHOULD NOT EXCEED 1/2 THE HEIGHT OF THE FENCE.
- REMOVE ALL FENCING MATERIALS AND UNSTABLE SILT DEPOSITS, AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY AND COMPLETELY STABILIZED.

2. SET THE POSTS ALONG THE DOWN SLOPE SIDE OF THE TRENCH.

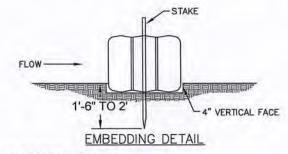


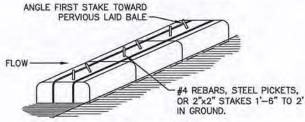
3. STAPLE SILT FENCE MATERIAL TO POSTS AND EXTEND IT INTO AND AROUND THE 4. BACKFILL AND COMPACT THE EXCAVATED SOIL OVER THE SILT



SHEET FLOW INSTALLATION (PERSPECTIVE VIEW







### ANCHORING DETAIL

- 1. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE
- 2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4".
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR REBAR DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
- INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY
- 5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE BY THE OWNER.

# STRAW BALE DIKE

NOT TO SCALE



WARRI 7 Butler Street acon, MO 63552-1628 a 385-6441 FAX: 660.385-6 Š KLINE SHAFER, 107 Butle Macon, N 660.385-

MAINTENANCE FACILITY FLORENCE, MISSOURI DETAILS CONTOL **EROSION** MODOT

> 160050-010 SHEET NO. C8

COMPOST

COMPOST

BERM

CROSS SECTION

DETAIL

4'-0"

2'-0" TO 3'-0"

**COMPOST BERM** 

SILT FENCE DETAIL NOT TO SCALE