

GENERAL NOTES

- ALL UTILITIES SHOWN HAVE BEEN LOCATED BY THE ENGINEER FROM AVAILABLE RECORDS. THEIR LOCATION SHOULD BE CONSIDERED APPROXIMATE. THE CONTRACTOR HAS THE RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES, PRIOR TO CONSTRUCTION, TO HAVE EXISTING UTILITIES FIELD LOCATED.
- BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY STOCK & ASSOCIATES CONSULTING ENGINEERS.
- ALL MATERIALS AND METHODS OF CONSTRUCTION TO MEET THE CURRENT STANDARDS AND SPECIFICATIONS OF THE DIRECTOR OF PUBLIC WORKS FOR THE CITY OF O'FALLON.
- ALL GRADED AREAS SHALL BE PROTECTED FROM EROSION BY EROSION CONTROL DEVICES AND/OR SEEDING AND MULCHING AS REQUIRED. EROSION CONTROL SHALL NOT BE LIMITED TO WHAT IS SHOWN ON THE PLAN. WHATEVER MEANS NECESSARY SHALL BE TAKEN TO PREVENT SILTATION AND EROSION FROM ENTERING NATURAL STREAMS AND ADJACENT ROADWAYS, PROPERTIES, AND DITCHES.
- PRIOR TO BEGINNING ANY WORK ON THE SITE, THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE FOR SPECIFIC INSTRUCTIONS RELEVANT TO THE SEQUENCING OF WORK.
- ALL FILLS AND BACKFILLS SHALL BE MADE OF SELECTED EARTH MATERIALS, FREE FROM BROKEN MASONRY, ROCK, FROZEN EARTH, RUBBISH, ORGANIC MATERIAL AND DEBRIS.
- GRADING CONTRACTOR SHALL KEEP EXISTING ROADWAYS CLEAN OF MUD AND DEBRIS AT ALL TIMES.
- PROPOSED CONTOURS SHOWN ARE FINISHED ELEVATIONS ON PAVED AREAS.
- NO GRADE SHALL EXCEED 3:1 SLOPE.
- GRADING AND STORM WATER PER THE CITY OF O'FALLON AND ST. CHARLES COUNTY STANDARDS.
- SITE ACREAGE = 213,153 S.F. ± OR 4.89 ACRES
- SITE ZONING = "C-2" GENERAL BUSINESS DISTRICT
- BUILDING SETBACKS: FRONT YARD = 25 FT.
SIDE YARD = 0 FT. EXCEPT RESIDENTIAL ZONING OR STREET, THEN 15 FT. TRANSITION STRIP W/ 10 FT. SETBACK (25 FT.)
- PARKING CALCULATIONS:
EXISTING PARKING: 83 SPACES
PARKING REQUIREMENT:
1 SPACE FOR EVERY THREE SEATS OR SIX FEET OF BENCH LENGTH IN THE MAIN AUDITORIUM.
REQUIRED: 243 SEATS PER 3 = 81 SPACES
PROVIDED = 89 SPACES (4 HANDICAP)
PARKING EXCEPTION FOR CHURCHES:
OFF-STREET PARKING FACILITIES REQUIRED FOR CHURCHES MAY BE REDUCED BY 50% WHERE CHURCHES ARE LOCATED IN NON-RESIDENTIAL DISTRICTS AND WITHIN 300 FEET OF USABLE PUBLIC OR PRIVATE OFF-STREET PARKING AREAS.
- LANDSCAPING CALCULATIONS:
ONE TREE FOR EVERY (40) FORTY FEET OF STREET FRONTAGE AND ONE TREE FOR EVERY 4,000 S.F. OF LANDSCAPED OPEN SPACE. (ART. 23.04.B.3)
STREET FRONTAGE (McCLUER ROAD) = 381' = 10 TREES REQUIRED
LANDSCAPED OPEN SPACE (PHASE II) = 25,962 S.F. ± = 7 TREES REQUIRED
TOTAL TREES REQUIRED = 17 TREES
TOTAL TREES PROVIDED = 29 TREES
- COVERAGE CALCULATIONS:
SITE ACREAGE = 213,153 sf. (4.89 ac.)
BUILDING = 14,950 sf. (7.0%)
WALKS = 6200 sf. (2.90%)
PAVEMENT = 80,536 sf. (37.7%)
TOTAL = 101,886 sf. (47.7%)
- FEMA MAP INFORMATION:
MAP NO. - 29183C0239 E
DATE - AUGUST 02, 1996
ZONE - "X" - OTHER AREAS
AREAS DETERMINED TO BE OUTSIDE THE 500 YEAR FLOOD PLAIN
- SITE LIGHTING SYSTEM TO PROVIDE A MINIMUM LIGHTING LEVEL OF 0.4 FOOT CANDLE FOR THE PARKING AREA. THE LIGHTING LEVEL SHALL NOT EXCEED 0.5 FOOT CANDLE AT THE PROPERTY LINE.
- PROPERTY OWNER: N/Y ST. LOUIS MISSION AND EXTENSION SOCIETY OF THE UNITED METHODIST CHURCH
DB. 1528 PGS. 1826-1830

STORM SEWER NOTES

- ALL CONCRETE SHALL BE REINFORCED, AND CONFORM TO A.S.T.M. DESIGNATION C76-80 CLASS III UNLESS NOTED.
- ALL STORM SEWER STRUCTURES WITHIN PROJECT SITE TO BE CONSTRUCTED IN ACCORDANCE WITH CITY OF O'FALLON SPECIFICATIONS.
- TYPE "C" BEDDING IS REQUIRED FOR PIPES IN ROCK.
- ALL TRENCH BACKFILLS UNDER PAVEMENT WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE GRANULAR BACKFILL. TRENCH BACKFILLS UNDER PAVED AREAS OUTSIDE OF PUBLIC RIGHT-OF-WAY SHALL BE GRANULAR BACKFILL IN LIEU OF THE EARTH BACKFILL COMPACTED TO 90 PERCENT OF THE MODIFIED AASHTO T-100 COMPACTION TEST A.S.T.M. D-1557.

PROPERTY DESCRIPTION

A tract of land being part of fractional Section 8, Township 46 North, Range 3 East of the 5th Principal Meridian, St. Charles County, Missouri and being more particularly described as follows:

Commencing at an old stone at the Northwest corner of U.S. Survey 3225, said stone being at an angle point on the Easterly line of McCluer Road, 30 feet wide; thence North 86°49'19" West along the Westerly prolongations of the Northerly line of said U.S. Survey 3225 a distance of 30.00 feet to a point on the Westerly line of said McCluer Road; thence South 02°57'42" West along the Westerly line of said McCluer Road 0.21 feet to its intersection with a line being distance 380.00 feet Southwesterly of and parallel with the centerline of Missouri State Highway "N", said point also being the point of beginning of the herein described tract; thence South 02°57'42" West along the Westerly line of above said McCluer Road 344.98 feet to the Northeastly corner of a 15.00 foot road widening for McCluer Road as dedicated on "Twin Chimneys" Coach Line Village "A" a subdivision recorded in Plat Book 30, Pages 355 and 356 of the St. Charles County Records; thence North 88°30'31" West along the Northerly line of said 15.00 foot wide road widening 15.01 feet to the Westerly line of said widening; thence South 02°57'42" West along said Westerly line 35.88 feet to the Northeastly corner of a tract of land now or formerly conveyed to Contel of Missouri, Inc. by deed recorded in Book 1253 on Page 1744 of the St. Charles County Records; thence South 55°22'05" West along the Northerly line of said Contel of Missouri, Inc. tract 135.84 feet to a point on a curve to the left; the radius point of said curve which bears South 55°22'05" West 54.00 feet; thence in a Westerly direction along said curve an arc distance of 94.83 feet to a point of reverse curvature to the right; said curve having a radius of 30.00 feet; thence in a Westerly direction along said curve to an arc distance of 52.43 feet to a point of tangency; thence North 88°30'31" West 69.90 feet to a point of curvature to the right and having a radius of 116.20 feet; thence in a Northwesterly direction along said curve an arc distance of 101.62 feet to a point of tangency; thence North 38°24'01" West 164.20 feet to a point of curvature to the left and having a radius of 20.00 feet; thence in a Northerly direction along said curve an arc distance of 26.71 feet to a point of reverse curvature to the left and having a radius of 640.00 feet; said point also being on the Southwesterly line of Twin Chimneys Boulevard, 80 feet wide; thence in a Northwesterly direction along the Southeastly line of said Twin Chimneys Boulevard and along said curve an arc distance of 220.13 feet to a point of tangency; thence North 24°09'01" East along the Southeastly line of said Twin Chimneys Boulevard 41.87 feet; thence departing the Southeastly line of said Twin Chimneys Boulevard South 65°50'59" East 208.00 feet; thence North 24°09'01" East 208.00 feet to its intersection with above said line, which is distance 380.00 feet Southwest of and parallel with the centerline of Missouri State Highway "N"; thence South 65°50'59" East along said line Southwest of and parallel with the centerline of said Missouri State Highway "N" 193.01 feet to the point of beginning.

EARTHWORK NOTES

BULK CUT.....#### + CUBIC YARD
BULK FILL.....#### + CUBIC YARD (INCLUDES 15% FOR COMPACTION)

THE ENGINEER HAS CALCULATED THE ABOVE QUANTITIES OF EARTHWORK TO BE REGARDED AS AN ESTIMATE OF THE BULK MOVEMENT OR REDISTRIBUTION OF SOILS ON THIS PROJECT. AS AN ESTIMATE, THESE QUANTITIES ARE INTENDED FOR GENERAL USE, AND THE ENGINEER ASSUMES NO LIABILITY FOR COST OVERRUNS DUE TO EXCESS EXCAVATED MATERIALS OR SHORTAGES OF FILL.

THE QUANTITIES ESTIMATED FOR EACH OF THE IMPROVEMENT ITEMS LISTED ABOVE ARE BASED UPON THE HORIZONTAL AND VERTICAL LOCATION OF THE IMPROVEMENTS AS PROPOSED ON THE SITE ENGINEERING PLANS PREPARED BY STOCK AND ASSOCIATES CONSULTING ENGINEERS.

THE ENGINEER'S EARTHWORK ESTIMATE DOES NOT INCLUDE ANY OF THE FOLLOWING ITEMS REQUIRING EARTHWORK THAT MAY BE NECESSARY FOR COMPLETION OF THE PROJECT: MISCELLANEOUS UNDERGROUND CONDUITS, INCLUDING SEWER LINES AND WATER MAINS LESS THAN TWENTY-FOUR INCHES IN DIAMETER, STANDARD MANHOLES, PROCESS OR TRANSFER PIPING; ELECTRICAL OR TELEPHONE CONDUITS; BASES FOR LIGHT STANDARDS; BUILDING FOOTINGS AND FOUNDATIONS, ETC.

THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACTUAL SIZE OF THE FIELD EXCAVATIONS MADE FOR THE INSTALLATION OF UNDERGROUND STRUCTURES, AND AS SUCH, THE ACTUAL QUANTITIES OF EARTHWORK FROM SUCH ITEMS MAY VARY FROM THE ESTIMATE SHOWN ABOVE.

THE ENGINEER ASSUMES NO RESPONSIBILITY FOR COSTS INCURRED DUE TO UNSUITABLE MATERIAL WHICH MUST BE REMOVED FROM SITE.

THE ABOVE QUANTITIES ARE AN ESTIMATE AND SHOULD BE CONSIDERED AS SUCH. IT IS THE GRADING CONTRACTOR'S RESPONSIBILITY TO PREPARE A QUANTITY TAKEOFF AND NOTE ANY DISCREPANCIES TO THE ENGINEER.

SILTATION NOTES

Straw Bale Siltation Control Specifications

Sheet Flow Applications

- Bales shall be placed in a single row, lengthwise on the contour, with both ends of adjacent bales tightly abutting one another.
- All bales shall be either wire-bound or string-tied. Straw bales shall be installed so that bindings are oriented around the sides rather than along the tops and bottoms of the bales (in order to prevent deterioration of the bindings). See Detail-this sheet.
- The barrier shall be entrenched and backfilled. A trench shall be excavated the width of a bale and the length of the proposed barrier to a minimum depth of 4 inches. After the bales are staked and chinked, the excavated soil shall be backfilled against the barrier. Backfill soil shall conform to the ground level on the downhill and shall be built up to 4 inches against the uphill side of the barrier (See detail this sheet).
- Each bale shall be securely anchored by at least two stakes or rebars driven through the bale. The first stake in each bale shall be driven toward the previously laid bale to force the bales together. Stakes or rebars shall be driven deep enough into the ground to securely anchor the bales.
- The gaps between bales shall be chinked (filled by wedging) with straw to prevent water from escaping between the bales. (Loose straw scattered over the area immediately uphill from a straw bale barrier tends to increase barrier efficiency).
- Inspection shall be frequent and repair or replacement shall be made promptly as needed.
- Straw bale barriers shall be removed when they have served their usefulness, but not before the upslope areas have been permanently stabilized.

Channel Flow Applications

- Bales shall be placed in a single row, lengthwise, oriented perpendicular to the contour, with ends of adjacent bales tightly abutting one another.
- The remaining steps for installing a straw bale barrier for sheet flow applications apply here, with the following addition.
- The barrier shall be extended to such a length that the bottoms of the end bales are higher in elevation than the top of the lowest middle bale to assure that sediment-laden runoff will flow either through or over the barrier but not around it.

Maintenance

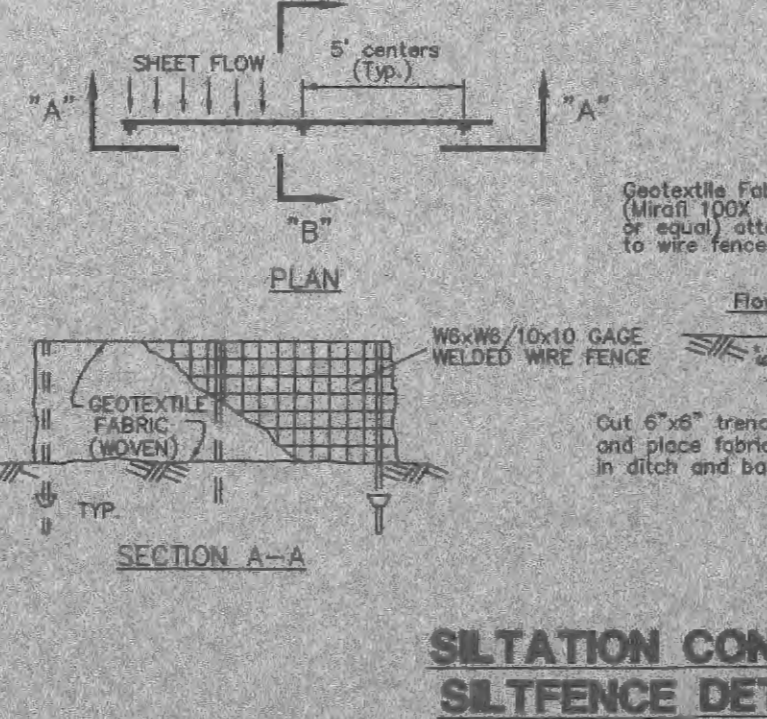
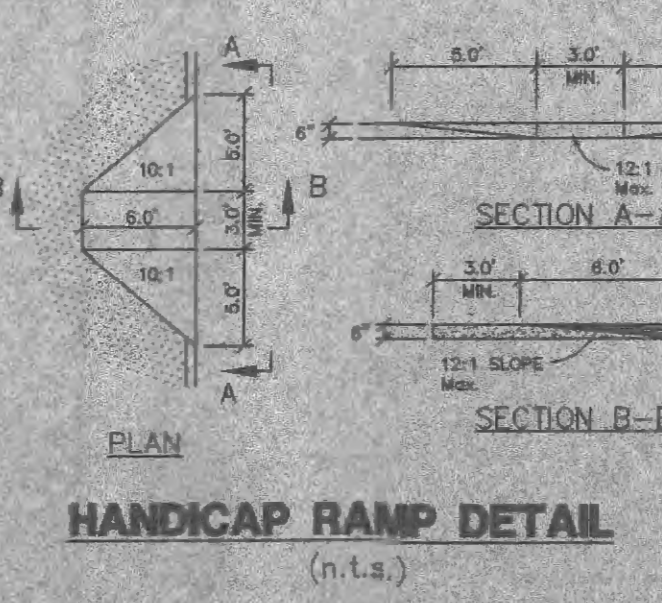
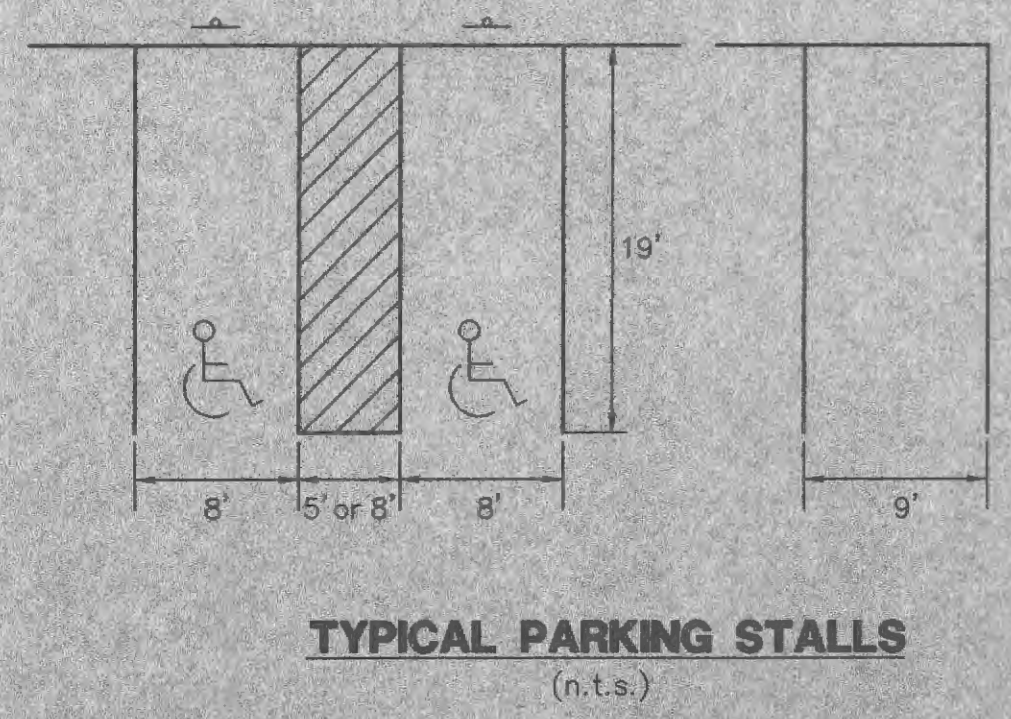
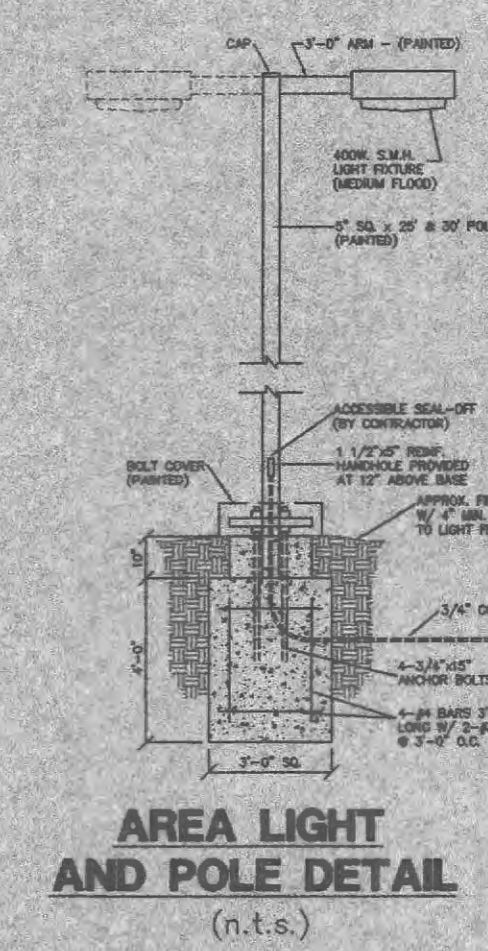
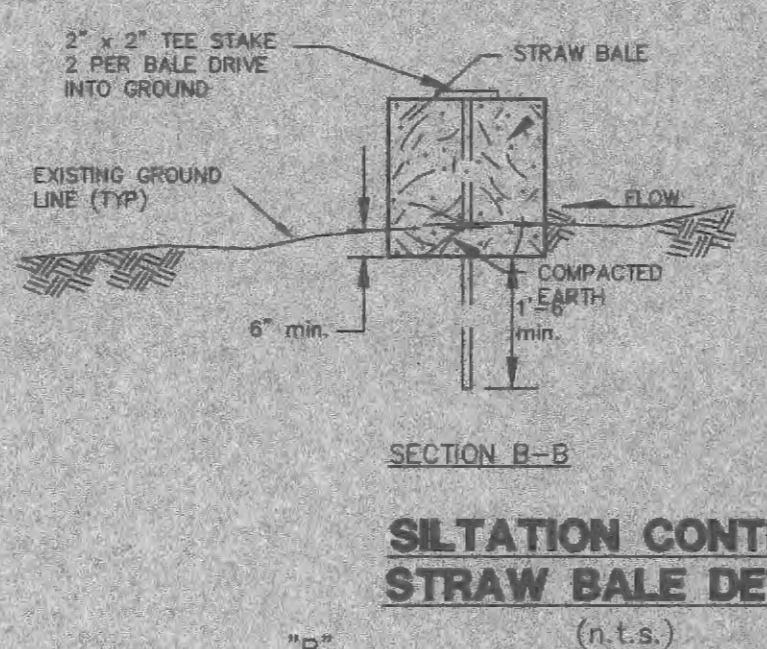
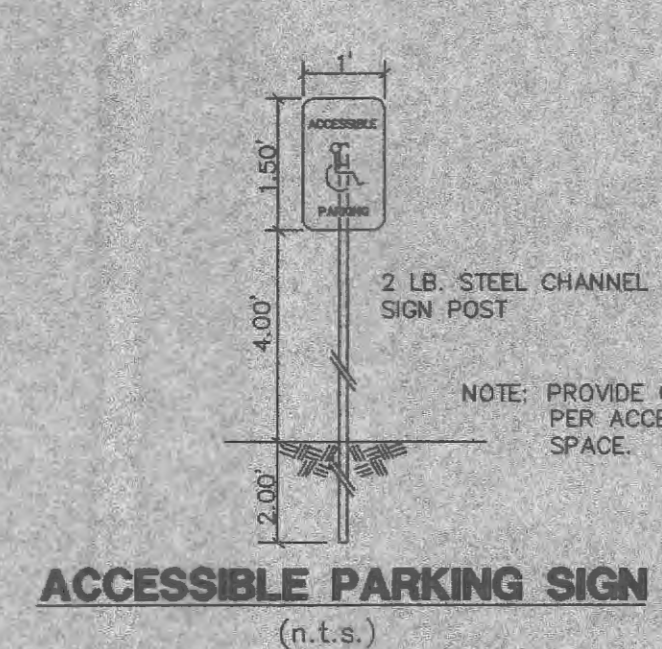
- Straw bale barriers shall be inspected immediately after each rainfall and at least daily during prolonged rainfall.
- Close attention shall be paid to the repair of damaged fence, and runs and undercutting beneath fence.
- Necessary repairs to barriers or replacement of silt fence shall be accomplished promptly.
- Sediment deposits should be removed after each rainfall. They must be removed when the level of deposition reaches approximately one-half the height of the barrier.
- Any sediment deposits remaining in place after the straw bale barrier is no longer required shall be dressed to conform to the existing grade, prepared and seeded.

Silt Fence Specifications

- Silt Fence to be woven geotextile fabric Mirafi 100X or equal.
- Fabric to be supported by metal tee post with spade base spaced on 5' centers with W6 x W6/10 x 10 gage welded wire fence. See detail this sheet.
- Fabric shall be entrenched and backfilled. A trench shall be excavated a minimum of 6 inches deep for the length of the fence. The excavated soil shall be backfilled against the fence. See detail this sheet.
- Fence height shall be a minimum of 4 feet in height, with the fabric installed on the fence on the upstream side.
- Silt fences shall be used only on sheet flow conditions.
- Silt fences shall be installed around all storm sewer structures.

Maintenance

- Silt fence barriers shall be inspected immediately after each rainfall and at least daily during prolonged rainfall.
- Close attention shall be paid to the repair of damaged bales, end runs and undercutting beneath bales.
- Necessary repairs to barriers or replacement of bales shall be accomplished promptly.
- Sediment deposits should be removed after each rainfall. They must be removed when the level of deposition reaches approximately one-half the height of the barrier.
- Any sediment deposits remaining in place after the silt fence barrier is no longer required shall be dressed to conform to the existing grade, prepared and seeded.



- GENERAL NOTES:**
- Do not scale drawing. Follow Dimensions
 - Additional straw bales may be required as directed by the engineer or construction manager.
 - Siltation Control Devices to remain in place until adequate vegetative growth insures no further erosion of the soil.
 - Siltation Fences shall be inspected periodically for damage and for the amount of sedimentation which has accumulated. Removal of sediment will be required when it reaches 1/2 of th height of the siltation fence.
 - Straw Bales shall be inspected periodically for deterioration. Bales which have rolled or failed shall be replaced.
 - Attachment of Welded Wire Fence and Geotextile Fabric to be in accordance with the manufacturer's recommendation.

SUNRISE UNITED METHODIST CHURCH
SPECIFICATION SHEET

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DRAWN BY GEORGE M. STOCK	DATE 09/01/98	CHECKED BY G.M.S.	DATE JOB NUMBER 09-1633
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