ALL WORK SHALL BE DONE UNDER THE SUPERVISION OF THE BUTLER COUNTY ENGINEER AND THE AUTHORITY HAVING RESPONSIBILITY FOR UTILITIES IN THE AREA AND IN ACCORDANCE WITH THE RULES AND REGULATIONS FOR SUBDIVISION.

STORM SEWERS SHALL BE A MATERIAL WITH A MANUFACTURER'S MANNINGS "N" OF 0.011 OR LOWER AND A MATERIAL AS NOTED IN APPENDIX D, TABLE D-6 IN THE BUTLER COUNTY SUBDIVISION REGULATIONS ADOPTED NOVEMBER 24, 1997. (NOTE - CORRUGATED METAL PIPE NOT INCLUDED)

STEPS SHALL BE INSTALLED IN CATCH BASINS AND MANHOLES IN EXCESS OF FOUR FEET.

CONSTRUCTION WORK SHALL BE IN ACCORDANCE WITH THE OHIO DEPARTMENT OF TRANSPORTATION "CONSTRUCTION AND MATERIAL SPECIFICATIONS" ODOT 2017 STANDARDS OR BUTLER COUNTY REQUIREMENTS AND STANDARDS FOR SUBDIVISIONS. WHEN IN CONFLICT, THE COUNTY REQUIREMENTS SHALL PREVAIL. SUMP COLLECTOR LINES SHALL BE CONSTRUCTED SDR 35 PVC.

A PRE-CONSTRUCTION MEETING IS REQUIRED WITH THE BUTLER COUNTY ENGINEER'S OFFICE PRIOR TO THE START OF CONSTRUCTION.

SANITARY SEWER MATERIALS AND INSTALLATION AS PER BUTLER COUNTY WATER & SEWER SPECIFICATIONS USING SECTION 3110 FOR PVC, SDR-35 & 26 PIPE; SECTION 3140 FOR ABS PVC COMPOSITE PIPE. SECTION 3410 FOR MANHOLES.

SANITARY LATERALS SHALL BE EXTENDED TO AT LEAST TEN (10) FEET BEYOND THE PROPERTY/ RIGHT–OF–WAY LINE OR TO THE EDGE OF THE EASEMENT, WHICHEVER IS GREATER. THE UPSTREAM TERMINUS OF THE SANITARY SEWER LATERALS SHOWN HERE ON ARE TO BE 12 FEET BELOW OF THE ELEVATION OF THE BACK OF CURB.

WATER MAIN SHALL HAVE 4' MINIMUM DEPTH TO TOP OF PIPE. ALL WATER MAINS TO BE DUCTILE IRON PIPE, CL. 53 AWWA C-151. WATER MAIN MATERIALS, VALVES, FIRE HYDRANTS, FITTINGS, APPURTENANCES, AND INSTALLATION TO BE AS BUTLER COUNTY SPECIFICATIONS, AND SHALL HAVE RESTRAINED JOINTS. ALL WATER MAIN VALVES TO HAVE A MINIMUM DEPTH OF 2.5 AND A MAXIMUM OF 4.0' FROM PROPOSED GRADE TO THE TOP OF THE VALVE OPERATING NUT.

| ALL | DOWNSPOUT | LINES | SHALL | ΒE | ON | SPLASHB | LOCKS | AND | MAY | NOT | ΒE | CONNEC | CTED | ТОТ | ΓHE | CURB. | | |
|-------|-----------|-------|---------|----|----|---------|-------|-----|-----|-----|----|--------|------|------|------|-------|------|---|
| A I I | | | דעה סומ | тц | | | | | | | | | | OTER | - AN | | NI 7 | • |

| COUNTY SPECIFICATIONS, AND SHALL HAVE RESTRAINED JOINTS. ALL WATER MAIN VALVES TO HAVE A MINIMUM DEPTH OF 2.5 AND A MAXIMUM OF 4.0' FROM PROPOSED GRADE TO THE TOP OF THE VALVE OPERATING NUT. | | |
|--|---|---------------------|
| WATER MAIN SHALL HAVE 10' HORIZONTAL, & 18" VERTICAL SEPARATION (OUTSIDE EDGE TO EDGE) WITH ALL OTHER PIPE. | | |
| ALL DOWNSPOUT LINES SHALL BE ON SPLASHBLOCKS AND MAY NOT BE CONNECTED TO THE CURB. ALL TRENCHES WITHIN THE RIGHT-OF-WAY AND UTILITY EASEMENTS SHALL BE COMPACTED AND BACKFILLED IN ACCORDANCE WITH | | |
| ITEM 203 AND 603 IN THE CURRENT OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS MANUAL. | M562006000045 MICHAEL, ANN DEVICE | |
| THE DEVELOPER SHALL BE RESPONSIBLE FOR THE INSTALLATION OF CONDUITS OF THE FULL WIDTH OF THE PUBLIC RIGHT-OF-WAY AS CALLED FOR ON THE TYPICAL SECTION FOR USE BY THE ELECTRIC, TELEPHONE, AND CABLE TELEVISION SERVICES. THE DEVELOPER SHALL COORDINATE THE LOCATION OF THE LINES WITH EACH UTILITY COMPANY. | MICHAEL, ANN DENISE | |
| ALL ELECTRICAL TRANSFORMERS SHALL BE LOCATED SO THAT THEY DO NOT INTERFERE WITH EXISTING MANHOLES OR WATER MAIN APPURTENANCES. | | |
| STORM SEWER PIPE SHALL BE TYPE "B" & "C" CONDUIT, 707.42 PVC, ALL DIA. (CONTECH A200 OR EQUAL), 707.33 PVC, UP TO & INCLUDING 24" DIA (HANCOR, ADS, OR EQUAL), 707.01 CMP, ALL DIA., 706.02, REINFORCED CONCRETE PIPE, ALL DIA. | M5620060000046 LAYER, DAVID & MELISSA N | |
| BUTLER COUNTY WATER & SEWER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE RELOCATION, REPAIR OR REPLACEMENT OF ANY OTHER UTILITY INSTALLED WITHIN FIVE (5) FEET OF THE CENTERLINE OF ANY SANITARY MAIN SEWER OR WATER MAIN. | RIDGEMONT ACRES SUB. | M5 SHE |
| PRIVATE DRIVEWAYS, PARKING LOTS AND OTHER PAVED AREAS, EARTHEN BERMS OR STRUCTURES SHOULD NOT BE CONSTRUCTED OVER PRIVATE WATER OR SEWER SERVICE LINES WITHIN THE PUBLIC ROAD RIGHT OF WAY OR WITHIN EASEMENT AREAS FOR THE PUBLIC UTILITIES. SHOULD THIS OCCUR, THE PROPERTY OWNER WILL BE HELD RESPONSIBLE FOR THE PROTECTION AND REPAIR OF AND FOR PROVIDING ACCESS TO ANY CURB STOPS, METER PITS, MANHOLES, CLEANOUTS, ETC. INSTALLED IN CONJUNCTION WITH THESE PRIVATE SERVICE LINES AND FOR ANY DAMAGE OR RESTORATION OF THE PAVED SURFACES OR STRUCTURES THAT MAY RESULT FROM THE FUTURE OPERATION, MAINTENANCE, REPAIR OR REPLACEMENT OF SAID SERVICE LINES AND APPURTENANCES. | McCAULY RD | |
| LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY GROUND CONDITIONS AND EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. | | |
| THE EXISTING UTILITIES SHOWN ARE FOR CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE OWNER ASSUMES NO RESPONSIBILITY FOR THE LOCATION OF ALL UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. | M5610012000004 MARY L. KING | |
| BUTLER COUNTY ASSUMES NO MAINTENANCE RESPONSIBILITY FOR PRIVATE DRIVES. | | |
| BUTLER COUNTY WILL NOT BE RESPONSIBLE FOR ANY PAVEMENT OR STORM SEWER REPAIRS RESULTING FROM WATER MAIN REPAIRS. BUTLER COUNTY ALSO WILL NOT BE RESPONSIBLE FOR ADJUSTING VALVES, FIRE HYDRANTS, METER PITS, ETC. AS A RESULT OF GRADE CHANGES. THE GRANTOR SHALL BE RESPONSIBLE FOR THE PROPER ADJUSTMENT OF VALVES, FIRE HYDRANTS, METER PITS, ETC., TO THE SATISFACTION OF BUTLER COUNTY, DUE TO GRADE CHANGES, PAVING, REPAVING, ETC., INITIATED BY THE GRANTOR. | | |
| ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED. | | |
| ALL BUILDINGS TO BE SERVED BY THE PUBLIC SEWER SYSTEM SHALL BE CONSTRUCTED SO AS TO PROVIDE A MINIMUM OF FOUR FEET (4') OF VERTICAL SEPARATION BETWEEN THE PUBLIC SANITARY SEWER, AT THE POINT OF CONNECTION, AND THE LOWEST BUILDING LEVEL SERVED BY A GRAVITY SEWER CONNECTION. IN ADDITION, SAID BUILDING LEVEL SHALL BE AT LEAST ONE FOOT (1') ABOVE THE LOWEST POINT OF FREE-OVERFLOW (NON-SEALED MANHOLE COVER) UPSTREAM OF ANY TREATMENT FACILITY OR WASTEWATER PUMPING FACILITY THAT RECEIVES THE DISCHARGE FROM SAID BUILDING. SAID MINIMUM SERVICE LEVELS SHALL BE | M5610012000003 NANCY K. DURIG AND | |
| RECORDED ON THE "AS BUILT" PLANS FOR THE DEVELOPMENT WHICH WILL BE KEPT ON FILE IN THE OFFICE OF THE BUTLER COUNTY SANITARY ENGINEER. | RICHARD S. THOMPSON | |
| SANITARY SEWER LATERALS, WHICH SHALL INCLUDE ALL PIPE AND APPURTENANCES FROM THE BUILDING TO THE PUBLIC SEWER MAIN, AND CONNECTION TO THE PUBLIC SEWER MAIN SHALL BE CONSIDERED PRIVATE AND THE RESPONSIBILITY OF THE PROPERTY OWNER TO MAINTAIN. THE CONNECTION TO THE SEWER WOULD BE ANY PIPING THAT EXTENDS OUT FROM THE MAIN BARREL OF THE SEWER MAIN. | 55 OPEN SPACE | |
| ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO FINAL GRADE AND ARE TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH STATE OF OHIO SPECIFICATIONS, ITEM 659. | | |
| THE CONTRACTOR SHALL SEED AND MULCH DISTURBED GRASS AREAS WITH: 3 LBS. WHEAT OR RYE PER 1000 SQ. FT. 10 LBS. 12–12–12 FERTILIZER PER 1000 SQ. FT. 2 OR 3 BALES OF STRAW PER 1000 SQ. FT. | | |
| THE CONTRACTOR SHALL ALSO PROVIDE OTHER EROSION CONTROL MEASURES AS MAY BE REQUIRED BY BUTLER COUNTY ENGINEER DURING THE CONSTRUCTION PHASE. | 27 OPEN | |
| SEEDING - SPECIFICATIONS AT DETENTION BASIN: | SPACE | |
| RED FESCUE 1 LB. PER 1000 SQ. FT KENTUCKY BLUEGRASS 1/2 LB. PER 1000 SQ. FT. | R RD | |
| PERENNIAL RYEGRASS 1/2 LB. PER 1000 SQ. FT. FERTILIZER: 12 - 12 - 12 | HESTER | |
| MULCH – 3 BALES OF STRAW PER 1000 SQ. FT. MULCH TIE DOWN: LIQUID ASPHALT (R.C. 70, 25 OR 800) 40 GALS. PER 1000 SQ. YDS. OR PLASTIC MULCH NETTING, STAPLED | 0 | |
| IN PLACE. SOD: TO BE STAKED IN PLACE. | WEST | |
| ON STREET PARKING SHALL BE LIMITED AND SHALL BE PROHIBITED DURING SNOW EVENTS. LANGUAGE SHALL BE PLACED IN THE SUBDIVISION PROTECTIVE COVENANTS, GIVING THE HOA THE ABILITY TO ENFORCE AND ELIMINATING THE NEED FOR PARKING SIGNAGE. | | |
| IF MORE THAN FIVE (5) FOOT OF FILL IS PLACED ON A BUILDING LOT, A COMPACTION TEST MUST BE APPROVED BY THE BUTLER COUNTY SWCD OFFICE AND BUTLER COUNTY ENGINEER'S OFFICE PRIOR TO FINAL PLAT APPROVAL. | | |
| A CONTRACT A CONTRACTACTACTI A CONTRACTACTA CONTRACTACTACTI A CONTRACTACTIA CONTRACTACTA | | |
| $\begin{vmatrix} -6'-0'' & -16'-0'' & -28' & -9'-0'' \\ -13'-6'' & -11'-6'' & -16'' & -6'' \\ -11'-6'' & -16'' & -6'' & -6'' \\ -11'-6'' & -16'' & -16'' & -16'' \\ -10'' & -16'' & -16'' & -16''' \\ -10'' & -16''' & -16''' & -16''' \\ -10'' & -16''' & -16''' & -16''' \\ -10'' & -16''' & -16''' & -16'''' \\ -10'' & -16''' & -16'''' & -16'''' \\ -10'' & -16''' & -16''''' & -16''''''''''''''''''''''''''''''''''''$ | M5610012000107 JOSEPH S. HONERLAW, TR. | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | OPEN |
| | ES | SPACE |
| CARTAIL 6 / 12-1 AGGREGATE FULL DEPTH GAS MAIN/// D | DEPTH DP OF PIPE 18" | |
| STOP AS NEEDED A | 24" – 30" 24" – 30" | |
| LOCAL STREET Water Electric | 48" - 54" 36" - 40" 36" - 40" | |
| 1 1'SURFACE COURSE OF ITEM 448 ASPHALTIC CONCRETE, SEE NOTE #4 TYPICAL STREET SECTION NOTES | 36" - 40" 36" - 40" | M5610 MONICA LYN |
| 2 1/2" LEVELING COURSE OF ITEM 448 ASPHALTIC CONCRETE 3 6" BASE COURSE OF ITEM 301 BITUMINOUS AGGREGATE BASE 1. ITEM NUMBERS REFER TO THE OHIO DEPARTMENT OF HIGHWAYS CONSTRUCTION AND MATERIAL SPECIFICATIONS, AND ALL CONSTRUCTION AND MATERIAL SPECIFICATIONS, AND ALL CONSTRUCTION AND MATERIAL SPECIFICATIONS AND SPECIFICATIONS OF COUNTY FEOLULIES AND STANDARDS FOR SUBDIVISIONS OF | | |
| (a) COMPACTED SUBGRADE, ITEM 203.13 (b) ROLL TYPE CURB & GUTTER, ITEM 609 (BUTLER CO. STANDARD C-1) (c) COMPACTED SUBGRADE, ITEM 609 (BUTLER CO. STANDARD C-1) (c) COMPACTED SUBGRADE, ITEM 609 (BUTLER CO. STANDARD C-1) (c) COMPACTED SUBGRADE, ITEM 609 (BUTLER CO. STANDARD C-1) | | |
| THE MALE FOR A VOLTER THE OUT TO THE CONTRACT OF THE STATE OF THE STAT | | |

TWO STEEL DOWELS AT EXPANSION

| 2. | PIPE, SANITARY SEWER PIPE, WATER VALVES AND MANHOLE FRAMES AND COVERS, ETC, WILL REMAIN UNDER SPECIFICATIONS OF THE UTILITY SERVING THE AREA. STORM SEWERS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUTLER COUNTY ENGINEER. |
|----|--|
| 3. | ALL TRENCHES WITHIN THE RIGHT OF WAY AND 10'UTILITY EASEMENTS SHALL BE COMPACTED AND BACKFILLED IN ACCORDANCE WITH ITEMS 203 |

| AND 603 IN THE STATE SPECIFICATIONS. |
|---|
| SURFACE COURSE (ITEM 448) AND TACK COAT (ITEM 407 ARE TO BE APPLIED NO SOONER THAN NINE (12) MONTHS AFTER THE LEVELING |
| COURSE (ITEM 448), AND FIFTY (50)PERCENT OF THE HOMES ARE |
| COMPLETÈD. IF AFTER TWO (2) YEÁRS, FIFTY (50) PERCENT OF THE HOMES HAVE NOT BEEN COMPLETED, THEN THE TOP COURSE MAY BE |
| HOMES HAVE NOT BEEN COMPLETED, THEN THE TOP COURSE MAT BE |

| A MINIMUM 10'UTILITY EASEMENT SHALL BE SHOWN ON THE RECORD PLAT |
|---|
| PARALLEL AND IMMEDIATELY ADJACENT TO THE RIGHT OF WAY LINE |
| ALLOWING FOR INSTALLATION, OPERATION AND MAINTENANCE OF SEWERS, |
| WATER, ELECTRIC AND TELEPHONE CONDUIT AND ANY OTHER PUBLIC OR |
| |

- DEVELOPER SHALL BE RESPONSIBLE FOR THE INSTALLATION OF CONDUITS FOR THE FULL WIDTH OF THE PUBLIC RIGHT OF WAY AT A DEPTH OF 38"FOR USE BY THE ELECTRIC, TELEPHONE AND CABLE TV SERVICES. THE LOCATION OF THESE LINES SHALL BE COORDINATED WITH UTILITY COMPANIES BY THE DEVELOPER.
- 7. SANITARY LATERALS SHALL BE EXTENDED BEYOND THE LIMITS OF THE UTILITY EASEMENTS, BUT NOT TO EXCEED 12' FROM THE RIGHT OF WAY
- 8. ALL ELECTRICAL TRANSFORMERS SHALL BE LOCATED SO THAT THEY DO NOT INTERFERE WITH THE EXISTING MANHOLES.
- 9. SUMP LINE CONDUITS ARE TO BE SDR 35.
- 10. THE SANITARY SEWER SHALL BE PLACED IN SUCH A MANNER THAT THE SANITARY MANHOLE COVER DOES NOT CONFLICT WITH THE SIDEWALK.

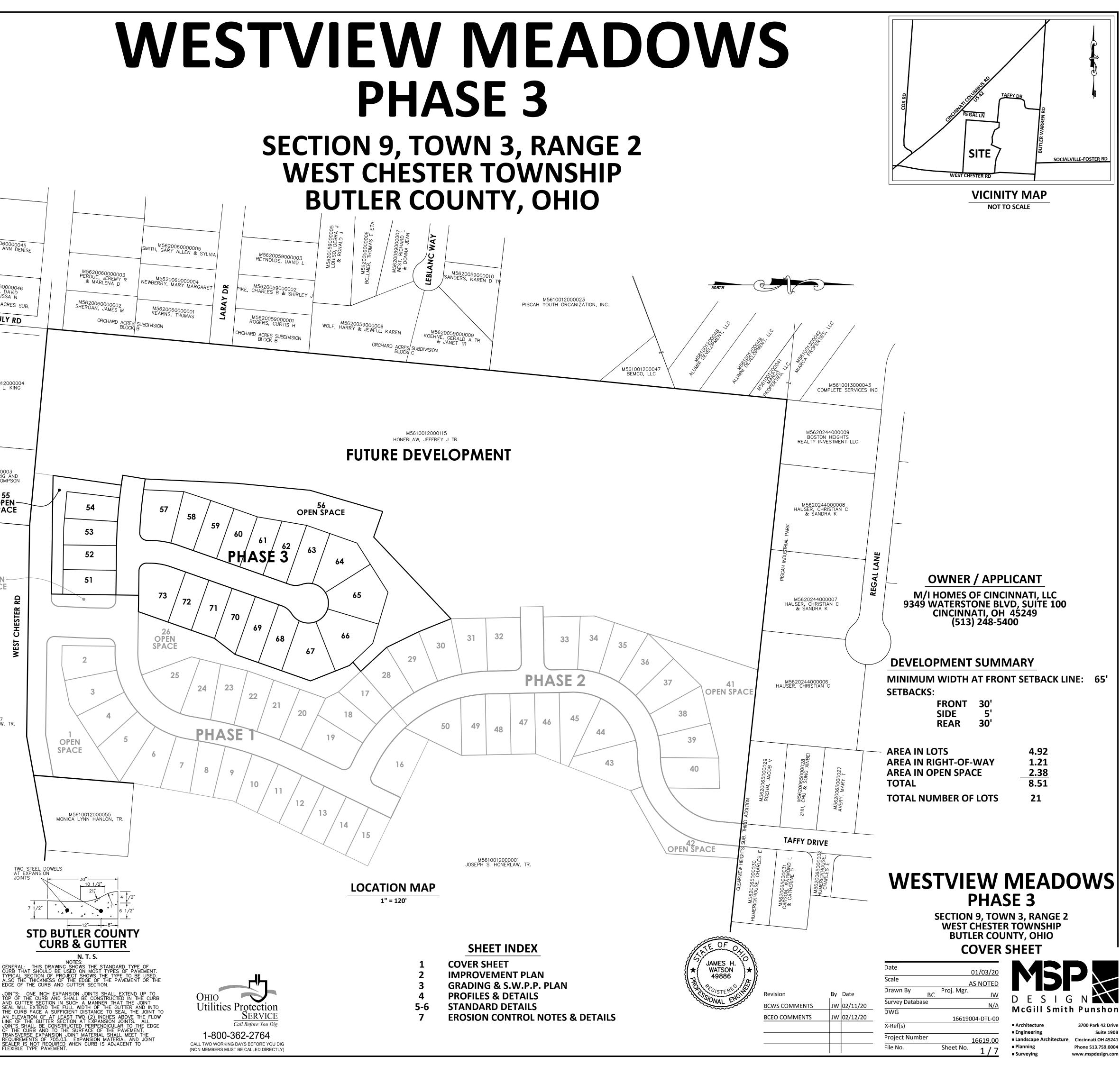
11. SOCK REQUIRED FOR UNDERDRAIN IF SANDY SOILS ARE ENCOUNTERED, OR AT THE DIRECTION OF THE COUNTY INSPECTOR.

(3) 1 1/2"LEVELING COURSE OF ITEM 448 ASPHALTIC CONCRETE

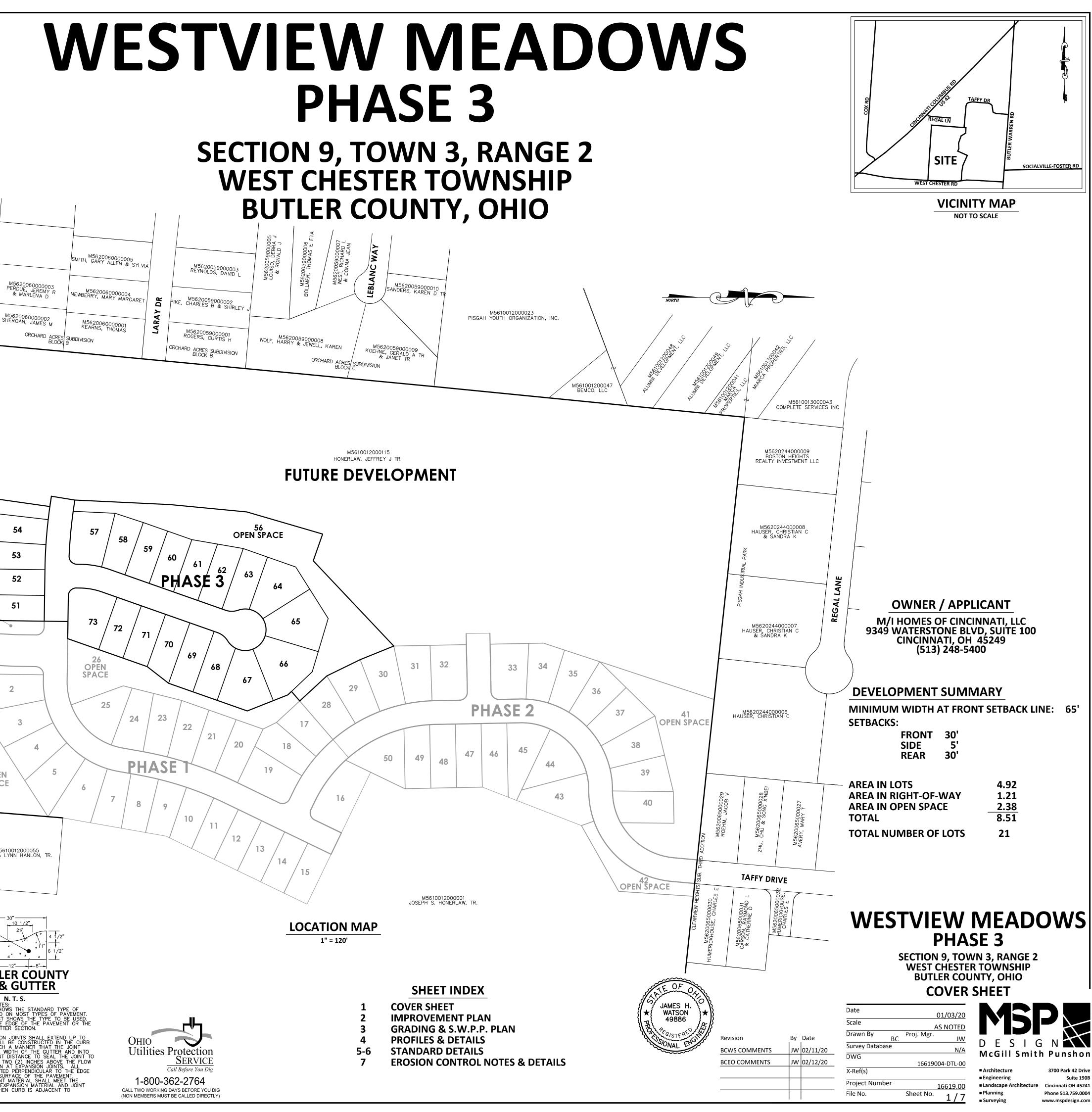
| SANITARY SEWER LATERALS, WHICH SHALL INCLUDE ALL PIPE AND APPURTENANCES FROM THE BUILDING TO THE PUBLIC MAIN, AND CONNECTION TO THE PUBLIC SEWER MAIN SHALL BE CONSIDERED PRIVATE AND THE RESPONSIBILITY OF THE FOWNER TO MAINTAIN. THE CONNECTION TO THE SEWER WOULD BE ANY PIPING THAT EXTENDS OUT FROM THE MAIN BAR THE SEWER MAIN. |
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| ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO I GRADE AND ARE TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH STATE SPECIFICATIONS, ITEM 659. |
| THE CONTRACTOR SHALL SEED AND MULCH DISTURBED GRASS AREAS WITH: 3 LBS. WHEAT OR RYE PER 1000 SQ. FT. 10 LBS. 12–12–12 FERTILIZER PER 1000 SQ. FT. 2 OR 3 BALES OF STRAW PER 1000 SQ. FT. |
| THE CONTRACTOR SHALL ALSO PROVIDE OTHER EROSION CONTROL MEASURES AS MAY BE REQUIRED BY BUTLER COUNTY DURING THE CONSTRUCTION PHASE. |
| SEEDING - SPECIFICATIONS AT DETENTION BASIN: RED FESCUE 1 LB. PER 1000 SQ. FT KENTUCKY BLUEGRASS 1/2 LB. PER 1000 SQ. FT. PERENNIAL RYEGRASS 1/2 LB. PER 1000 SQ. FT. FERTILIZER: 12 - 12 - 12 MULCH - 3 BALES OF STRAW PER 1000 SQ. FT. MULCH TIE DOWN: LIQUID ASPHALT (R.C. 70, 25 OR 800) 40 GALS. PER 1000 SQ. YDS. OR PLASTIC MULCH NETTING, STAPLED IN PLACE. SOD: TO BE STAKED IN PLACE. |
| ON STREET PARKING SHALL BE LIMITED AND SHALL BE PROHIBITED DURING SNOW EVENTS. LANGUAGE SHALL BE PLACE SUBDIVISION PROTECTIVE COVENANTS, GIVING THE HOA THE ABILITY TO ENFORCE AND ELIMINATING THE NEED FOR PARKING |
| IF MORE THAN FIVE (5) FOOT OF FILL IS PLACED ON A BUILDING LOT, A COMPACTION TEST MUST BE APPROVED BY THE COUNTY SWCD OFFICE AND BUTLER COUNTY ENGINEER'S OFFICE PRIOR TO FINAL PLAT APPROVAL. |
| 10'UTILITY R/W 10'UTILITY EASEMENT 60'-0" R/W 10'UTILITY 10'-0" 28' 10'UTILITY 10'-0" 11'-6" 10'UTILITY 10'-0" 11'-6" 10'UTILITY 10'-0" 11'-6" 10'UTILITY 11'-6" 11'-6" 10'UTILITY 10'UTILITY 11'-0" 10'UTILITY 10'UTILITY 11'-6" 10'UTILITY 10'UTILITY 11'-6" 10'UTILITY 10'UTILITY 10'UTILITY 10'UTILITY 10'UTILITY |
| NOT TO SCALE |
| (1) 1"SURFACE COURSE OF ITEM 448 ASPHALTIC CONCRETE, SEE NOTE #4 (2) 2 1/2" LEVELING COURSE OF ITEM 448 ASPHALTIC CONCRETE (3) 6" BASE COURSE OF ITEM 301 BITUMINOUS AGGREGATE BASE (4) COMPACTED SUBGRADE, ITEM 203.13 |
| (5) ROLL TYPE CURB & GUTTER, ITEM 609 (BUTLER CO. STANDARD C-1) (6) 4" THICK CLASS "C" CONCRETE WALK, 5' WIDE, ITEM 608 WALK TO BE 1/2"HIGHER THAN SOD. BIKE PATH SHALL BE 8'WIDE. 2. ITEMS THAT PERTAIN TO UNDERGROUND UTILITIES PIPE, SANITARY SEWER PIPE, WATER VALVES AND COVERS, ETC, WILL REMAIN UNDER SPECIFICATION THE AREA. STORM SEWERS SHALL BE DESIGNED ACCORDANCE WITH THE REQUIREMENTS OF THE E |
| (7) SEEDING & MULCHING, ITEM 659 (8) TACK COAT, ITEM 407 - TO BE APPLIED AT A RATE OF 0.05 GAL. PER SQ. YARD, SEE NOTE #4 (7) SEEDING & MULCHING, ITEM 659 (8) TACK COAT, ITEM 407 - TO BE APPLIED AT A RATE OF 0.05 GAL. PER SQ. YARD, SEE NOTE #4 (7) SEEDING & MULCHING, ITEM 659 (8) TACK COAT, ITEM 407 - TO BE APPLIED AT A RATE OF 0.05 GAL. PER SQ. YARD, SEE NOTE #4 (7) SEEDING & MULCHING, ITEM 659 (7) SEEDING & MULCHING, ITEM 659 (8) TACK COAT, ITEM 407 - TO BE APPLIED AT A RATE OF 0.05 GAL. PER SQ. YARD, SEE NOTE #4 |
| TACK COAT SHALL BE APPLIED TO FRONT FACE OF CURB PRIOR TO THE INSTALLATION OF THE 301 BITUMINOUS AGGREGATE BASE. ALSO TO BE APPLIED TO THE CURB JOINT AFTER THE INSTALLATION OF 448 LEVELING COURSE SURFACE COURSE (ITEM 448) AND TACK COAT (APPLIED NO SOONER THAN NINE (12) MONTHS A COURSE (ITEM 448), AND FIFTY (50)PERCENT OF COMPLETED. IF AFTER TWO (2) YEARS, FIFTY (51) HOMES HAVE NOT BEEN COMPLETED, THEN THE APPLIED. |
| ① 5" BASE COURSE OF ITEM 301 BITUMINOUS AGGREGATE BASE 5. A MINIMUM 10'UTILITY EASEMENT SHALL BE SHOW PARALLEL AND IMMEDIATELY ADJACENT TO THE F ① ITEM 605, 4" UNDERDRAIN CONNECT UNDERDRAIN TO FRONT FACE OF NEAREST CATCH BASIN 5. A MINIMUM 10'UTILITY EASEMENT SHALL BE SHOW PARALLEL AND IMMEDIATELY ADJACENT TO THE F A MINIMUM 10'UTILITY EASEMENT SHALL BE SHOW PARALLEL AND IMMEDIATELY ADJACENT TO THE F ALLOWING FOR INSTALLATION, OPERATION AND M. WATER, ELECTRIC AND TELEPHONE CONDUIT AND QUASI PUBLIC UTILITY. |

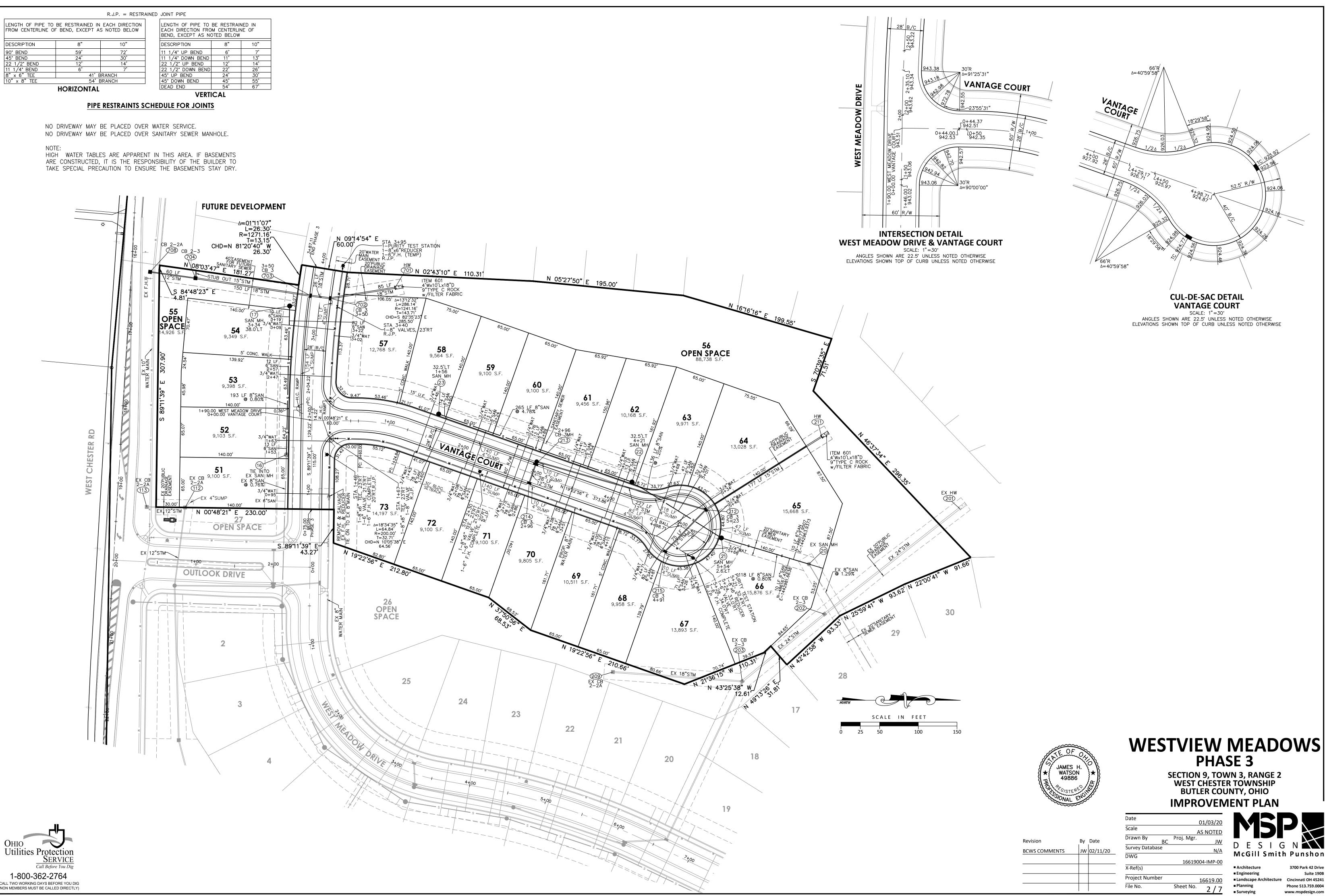
PHASE 3

WEST CHESTER TOWNSHIP BUTLER COUNTY, OHIO









| Revision | Ву | Date |
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| BCWS COMMENTS | JW | 02/11/20 |
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- 7. SITE CONSTRUCTION. * DUE TO THE DYNAMICS AND STAGING OF EARTH MOVEMENT. CONTRACTOR MAY NEED TO ALTER THE EROSION CONTROL MEASURES AS SHOWN HEREON. CONTRACTOR TO APPLY (B.M.P.) BEST MANAGEMENT PRACTICES IN ORDER TO CONTROL THE RUNOFF OF SILT AND SEDIMENT. * ADDITIONAL SILT FENCE MAY BE REQUIRED AS SITE CONDITIONS DETERMINE.

ADDITIONAL NOTES

1. A DETAILED MAINTENANCE PLAN THAT DESCRIBES PROCEDURES (E. INSPECTION OF STORM WATER CONTROLS/INTERNAL INSPECTIONS) I PERFORMANCE OF CONTROL PRACTICES SHALL BE LOCATED AT THE

- 9. REMOVAL OF EROSION AND SEDIMENT CONTROLS MEASURES.

- 8. FINAL GRADING, STABILIZATION, AND LANDSCAPING.

- 6. INSTALLATION OF ALL UTILITIES.
- GRADING OF SUBDIVISION STREET.
- TEMPORARY VEGETATIVE STABILIZATION OF EROSION AND SEDIMENT CONTROL MEASURES.
- GRADING AND STRIPPING OF THE REMAINING AREAS OF THE DEVELOPMENT SITE OR PROJECT AREA. INSTALL STORMWATER MANAGEMENT SYSTEM.
- CONSTRUCTION SEQUENC INSTALL EROSION AND SEDIMENT CONTROL MEASURES BEFORE UPSLOPE CLEARING AND GRADING.

* IF A TEMPORARY STOCKPILE IS CREATED, SILT FENCE SHALL BE PLACED AT THE TOE OF SLOPE

PERFORMANCE OF CONTROL PRACTICES SHALL BE LOCATED AT THE ENTRANCE OF THE DEVELO AREA OR AT THE JOB TRAILER IN A WELL-MARKED CONTAINER ACCESSIBLE AT ALL TIMES. SU PLANS MUST ENSURE THAT POLLUTANTS COLLECTED WITHIN STRUCTURAL POST-CONSTRUCTION PRACTICES, BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS

4. HIGH WATER TABLES ARE APPARENT IN THIS AREA. IF BASEMENTS ARE CONSTRUCTED, IT IS THE RESPONSIBILITY OF THE BUILDER TO TAKE SPECIAL PRECAUTION TO ENSURE THE BASEMENTS STAY

5. THE TOP FOOT OF LOT FILLS NECESSARY TO ACHIEVE PLAN GRADE MAY CONSIST OF REDISTRIBUTED TOP SOIL.

2. ESTABLISH VEGETATION ON ALL BARE AREAS AS PER O.E.P.A. N.P.D.E.S. REGULATIONS. 3. CONTRACTOR IS RESPONSIBLE FOR N.P.D.E.S. INSPECTIONS DURING CONSTRUCTION PERIOD.

- 5. SEDIMENT SHALL BE REMOVED FROM POND AT SUCH TIME WHEN SEDIMENT OCCUPIES 50% OF BASIN DEPTH.
- 4. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE AND PREPARED FOR SEEDING.
- 3. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
- 2. SHOULD THE FABRIC ON A FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
- MAINTENANCE OF CONTROLS . SILT FENCE AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND DAILY DURING A PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF DEMOLITION AND ARE TO FINAL GRADE AND TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH STATE OF OHIO SPECIFICATION ITEM 659, AND IN ACCORDANCE WITH THE CONDITIONS OF THE NPDES STORM WATER GENERAL PERMIT.
- 16. SEDIMENT CONTROL STRUCTURES SHALL BE FUNCTIONAL THROUGHOUT THE COURSE OF EARTH DISTURBING ACTIVITY. AND SHALL CONTINUE TO FUNCTION UNTIL THE UP SLOPE DEVELOPMENT AREA IS RESTABLISHED. AS CONSTRUCTION PROGRESSES AND THE TOPOGRAPHY IS ALTERED, APPROPRIATE CONTROLS MUST BE CONSTRUCTED OR EXISTING CONTROLS ALTERED TO ADDRESS THE CHANGING DRAINAGE PATTERNS.
- 13. PRIOR TO COMMENCEMENT OF CONSTRUCTION OPERATIONS, ALL SEDIMENTATION AND EROSION CONTROL FEATURES SHALL BE IN PLACE.
- 12. THE SWP3 PLAN, NOI APPLICATION, AND LETTER GRANTING PERMIT COVERAGE SHALL BE RETAINED ON SITE AT ALL TIMES IN THE PROJECT TRAILER AND SHALL BE MADE AVAILABLE IMMEDIATELY UPON REQUEST OF THE OHIO EPA DIRECTOR OR HIS AUTHORIZED REPRESENTATIVE DURING WORKING HOURS.
- 11. THE DEVELOPER AND CONTRACTOR SHALL ABIDE BY THE RULES AND REGULATIONS SET FORTH IN THE OHIO EPA PERMIT NO. OHCOOO005- "AUTHORIZATION FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY" UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES).
- 10. UNLESS OTHERWISE NOTED, STANDARDS AND SPECIFICATIONS ESTABLISHED IN THE LATEST EDITION OF THE OHIO DEPARTMENT OF NATURAL RESOURCES "RAINWATER AND LAND DEVELOPMENT" MANUAL, CURRENT EDITION, SHALL GOVERN THE EROSION AND SEDIMENT CONTROL INSTALLATIONS SPECIFIED ON THIS PLAN.
- (513) 248–5400 CONTACT: MIKE ATHAN
- 9. SWPPP CONTACT: M/I HOMES OF CINCINNATI, LLC 9349 WATERSTONE BLVD, SUITE 100 ÇINCINNATI, OH 45249
- M/I HOMES OF CINCINNATI, LLC 9349 WATERSTONE BLVD, SUITE 100 CINCINNATI, OH 45249 (513) 248–5400
- 8. SITE OPERATOR:
- 7. PROJECT DURATION: THRU 2021
- 6. NPDES STORM WATER GENERAL PERMIT NUMBER: 1GC06880*AG
- 4. PREDOMINATE SOIL TYPES ARE FINCASTLE SILT LOAM & XENIA SILT LOAM. 5. THE EAST FORK OF MILL CREEK IS THE FIRST NAMED STREAM RECEIVING RUNOFF FROM THIS SITE.
- 3. PRE-CONSTRUCTION RUNOFF COEFFICIENT IS 0.32. POST-CONSTRUCTION RUNOFF COEFFICIENT IS 0.50.
- 2. AREA TO BE DISTURBED IS APPROXIMATELY 6 ACRES.
- 1. PROJECT INVOLVES THE CONSTRUCTION OF ROADS, HOUSES AND UTILITIES FOR A SINGLE FAMILY SUBDIVISION.
- GENERAL NPDES NOTES

PHASE 3

BUTLER COUNTY, OHIO GRADING & S.W.P.P. PLAN

| | | Scale |
|---------------|-------------|-----------------|
| Revision | By Date | Drawn By |
| BCWS COMMENTS | JW 02/11/20 | Survey Database |
| BCEO COMMENTS | JW 02/12/20 | DWG |
| | | X-Ref(s) |
| | | Project Number |
| | | File No. |

WATSON 49886



Landscape A Planning

700 Park 42 Drive Suite 190E Cincinnati OH 45241 Phone 513.759.000

WESTVIEW MEADOWS

SECTION 9, TOWN 3, RANGE 2 WEST CHESTER TOWNSHIP

01/03/20

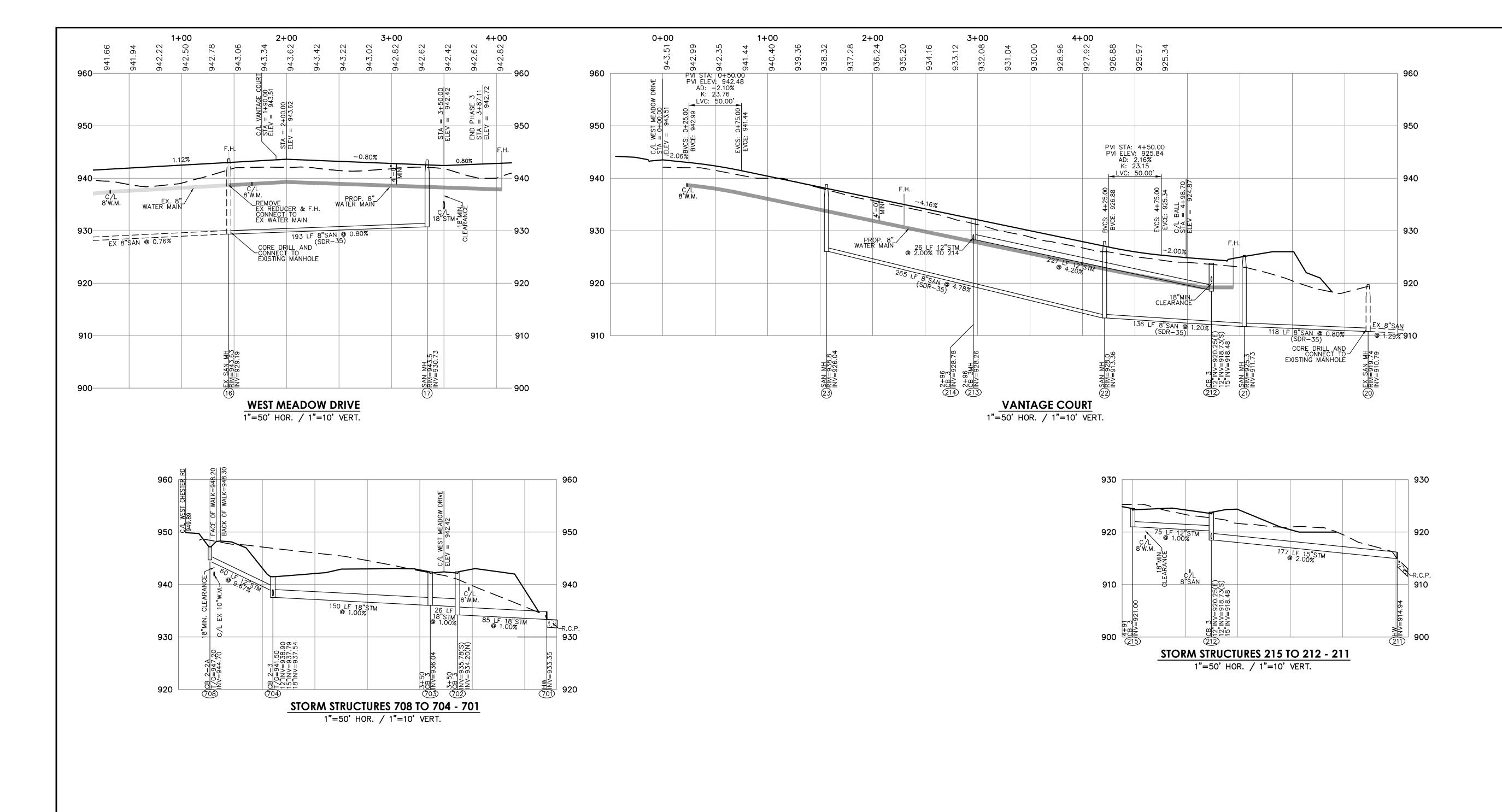
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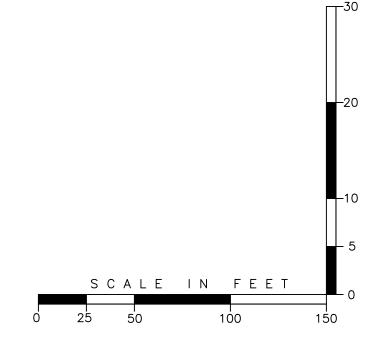
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Proj. Mgr.

Sheet No.









| Revision | Ву | Date |
|---------------|----|----------|
| BCWS COMMENTS | WL | 02/11/20 |
| BCEO COMMENTS | JW | 02/12/20 |
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| Date | 01/03/20 |
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| Scale | AS NOTED |
| Drawn By BC | Proj. Mgr. JW |
| Survey Database | N/A |
| DWG | 16619004-IMP-00 |
| X-Ref(s) | |
| Project Number | 16619.00 |
| File No. | Sheet No. 4 / 7 |

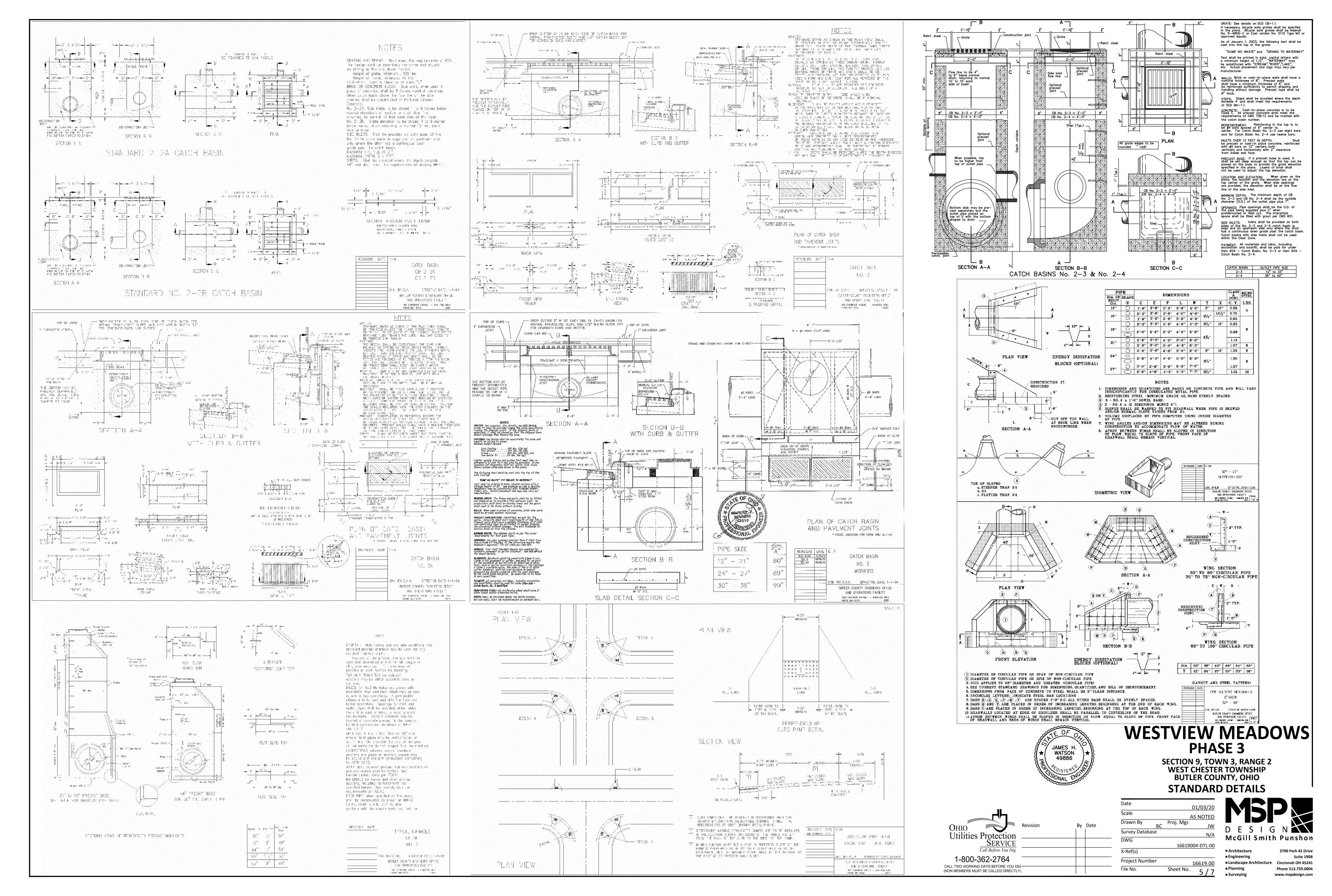


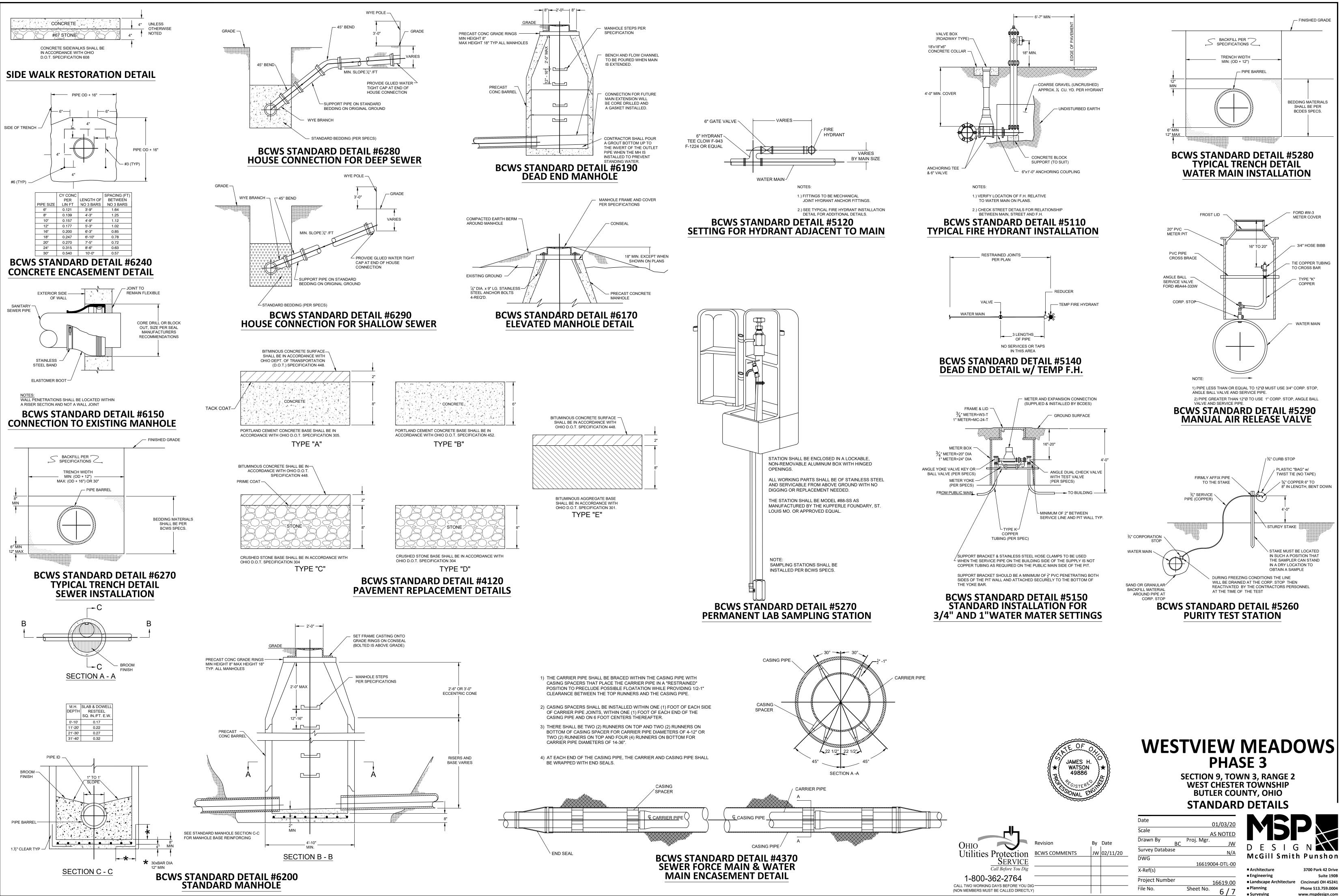
Architecture 3700 Park 42 Drive Engineering Landscape Architecture Planning Surveying www.mspdesign.com

Suite 190B Cincinnati OH 45241 Phone 513.759.0004

WESTVIEW MEADOWS PHASE 3

SECTION 9, TOWN 3, RANGE 2 WEST CHESTER TOWNSHIP BUTLER COUNTY, OHIO **PROFILES & DETAILS**





SITE PREPARATION

1. A subsoiler, plow or other implement shall be used to reduce soil compaction and allow maximum infiltration. (Maximizina infiltration will help control both runoff rate and water quality.) Subsoiling should be done when the soil moisture is low enough to allow the soil to crack or fracture. Subsoiling shall not be done on slip-prone areas where soil preparation should be limited to what is necessary for establishing vegetation.

2. The site shall be graded as needed to permit the use of conventional equipment for seedbed preparation and seeding.

3. Resoil shall be applied where needed to establish vegetation. SEEDBED PREPARATION

1. Lime-Agricultural ground limestone shall be applied to acid soil as recommended by a soil test. In lieu of a soil test, lime shall be applied at the rate of 100 lbs./1,000 sq. ft.

or 2 tons/ac.

2. Fertilizer-Fertilizer shall be applied as recommended by a soil test. In lieu of a soil test, fertilizer shall be applied at a rate of 12 lb./1,000 sq. ft. or 500 lb./ac/ of 10-10-10 or 12-12-12 analysis.

3. The lime and fertilizer shall be worked into the soil with a disk harrow, spring-tooth harrow, or other suitable field implement to a depth of 3 in. On sloping land the soil shall be worked on the contour.

SEEDING DATES AND SOIL CONDITIONS

Seeding should be done March 1 to May 31 or Aug. 1 to September 30 These seeding dates are ideal but, with the use of additional mulch and irrigation, seedings may be made any time throughout the growing season. Tillage/ seedbed preparation should be done when the soil is dry enough to crumble and not form ribbons when compressed by hand. For winter seeding, see the following section on dormant seeding.

DORMANT SEEDINGS

I. Seedings shall not be planted from October 1 through November 20. During this period the seeds are likely to germinate, but probably will not be able to survive the winter.

2. The following methods may be used for "Dormant Seeding":

* From October 1 through November 20, prepare the seedbed, and the required amounts of lime and fertilizer, then mulch and anchor After November 20, and before March 15, broadcast the selected seed mixture, mulch and anchor. Increase the seeding rates by 50% for this type of seeding.

* From November 20 through March 15, when soil conditions permit, prepare the seedbed, lime and fertilize, apply the selected seed mixture, mulch and anchor. Increase the seeding rates by 50% for this type of seeding.

* Apply seed uniformly with a cyclone seeder, drill, cultipacker seeder, or hydro-seeder (slurry may include seed and fertilizer) on a firm, moist seedbed.

* Where feasible, except when a cultipacker type seeder is used, the seedbed should be firmed following seeding operations with a cultipacke roller or light drag. On sloping land, seeding operations should be on the contour where feasible.

MULCHING

1. Mulch material shall be applied immediately after seeding. Seedings made during optimum seeding dates and with favorable soil conditions and on very flat areas may not need mulch to achieve adequate stabilization. Dormant seeding shall be mulched.

| | Pern | nanent Seeding | 1 | |
|--|-------------------------|-----------------------------|-------------------------------|--|
| | Seeding Rate | | | |
| Seed Mix | lb./ac. | lb./1.000 ft. ² | Notes: | |
| | (| General Use | | |
| Creeping Red Fescue Domestic Ryegrass Kentucky Bluegrass | 20-40 10-20 10-20 | 1/2-1 1/4-1/2 1/4-1/2 | | |
| Tall Fescue | 40 | 1 | | |
| Dwarf Fescue | 40 | 1 | | |
| | Steep Bo | anks or Cut SI | opes | |
| Tall Fescue | 40 | 1 | | |
| Crown Vetch Tall Fescue | 10 20 | 1/4 1/2 | Do not seed later than August | |
| Flat Pea Tall Fescue | 20 20 | 1/2 1/2 | Do not seed later than August | |
| | Road D | itches and Swo | ales | |
| Tall Fescue | 40 | 1 | | |
| Dwarf Fescue Kentucky Bluegrass | 90 5 | 2 1/4 | | |
| | | Lawns | | |
| Kentucky Bluegrass Perennial Ryegrass | 60 60 | 1 1/2 1 1/2 | | |
| Kentucky Bluegrass Creeping Red Fescue | 60 60 | 1 1/2 1 1/2 | For shaded areas | |
| Note: Other approved seed speci | es may be substi | tuted. | | |

2. Materials

* Straw-If straw is used it shall be unrotted small-grain straw applied at the rate of 2 tons/ac. or 90 lb./1.000 sa. ft. (two to three bales) The mulch shall be spread uniformly by hand or mechanically so the soi surface is covered. For uniform distribution of hand-spread mulch. divide area into approximately 1.000-sa.-ft. sections and spread two 45-lb. bales of straw in each section.

* Hydroseeders-If wood cellulose fiber is used, it shall be used at 2,000 lb./ac/ or 46 lb./1,000 sq. ft.

* Other-Other acceptable mulches include mulch mattings applied according to manufacturer's recommendations or wood chips applied at 6 tons/ac.

3. Straw Mulch Anchoring Methods Straw mulch shall be anchored

immediately to minimize loss by wind or water.

* Mechanical—A disk, crimper, or similar type tool shall be set straight to punch or anchor the mulch material into the soil. Straw mechanically anchored shall not be finely chopped but, generally, be left

longer than 6 in.

critical slopes.

* Mulch Nettings-Netting shall be used according to the manufacturer's recommendations. Netting may be necessary to hold mulch in place in areas of concentrated runoff and on

* Asphalt Emulsion-Asphalt shall be applied as recommended by the manufacturer or at the rate of 160 gal. /ac.

* Synthetic Binders-Synthetic binders such as Acrylic DLR (Agri-Tac). DCA-70, Petroset, Terra Tack or equivalent may be used at rates recommended by manufacturer.

* Wood Cellulose Fiber-Wood cellulose fiber binder shall be applied at a net dry weight of 750 lb./ac. The wood cellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 lbs./100 gal. IRRIGATION

1. Permanent seeding shall include irrigation to establish vegetation during dry or hot weather or on adverse site conditions as needed fo adequate moisture for seed germination and plant growth.

2. Excessive irrigation rates shall be avoided and irrigation monitored to prevent erosion and damage from

Specifications for Permanent Seeding

be established by soil test

recommendations or by using the

rates shown in the following table.

1. Permanent seeding shall not be considered established for at least 1 full year from the time of planting. Seeded areas shall be inspected for failure and reestablished as needed. Depending on site conditions, it may be necessary to irrigate, fertilize, overseed, or reestablish plantings in order to provide permanent vegetation for adequate erosion control.

Maintenance for Permanent Seedings Fertilization and Mowing

| Mixture | Formula | lb./ac. | lb./1.000 ft. ² | Time | Mowing |
|---|----------|---------|----------------------------|--|--------------------------|
| Creeping Red Fescue Ryegrass Kentucky Bluegrass | 10-10-10 | 500 | 12 | | Not closer than 3" |
| Tall Fescue | 10-10-10 | 500 | 12 | Fall, yearly or as needed. | Not closer than 4" |
| Dwarf Fescue | 10-10-10 | 500 | 12 | | Not closer than 2" |
| Crown Verch Fescue | 0-20-20 | 400 | 10 | Spring, yearly following establish— | Do not mow |
| Flat Pea Fescue | 0-20-20 | 400 | 10 | ment and every 4–7 yr. thereafter. | Do not mow |

Note: Following soil test recommendations is preferred to fertilizer rates shown above.

Specifications for

Temporary Seeding

| Temporary Seeding Species Sele | ction | | |
|--------------------------------|---------------------|----------------------------|---------|
| Seeding Dates | Species | lb./1.000 ft. ² | Per |
| March 1 to August 15 | Oats | 3 | 4 bu |
| | Tall Fescus | 1 | 40 II |
| | Annual Ryegrass | 1 | 40 II |
| | Perennial Ryegrass | 1 | 40 |
| | Tall Fescus | 1 | 40 |
| | Annual Ryegrass | 1 | 40 |
| August 16 to November 1 | Rye | 3 | 2 bu |
| | Tall Fescus | 1 | 40 ll |
| | Annual Ryegrass | 1 | 40 ll |
| | Wheat | 3 | 2 bu |
| | Tall Fescus | 1 | 40 II |
| | Annual Ryegrass | 1 | 40 II |
| | Perennial Ryegrass | 1 | 40 |
| | Tall Fescus | 1 | 40 |
| | Annual Ryegrass | 1 | 40 |
| November 1 to Spring Seeding | Use mulch only, sod | ding practices or don | nant se |

Note: Other approved seed species may be substituted

1. Structural erosion and sediment control practices such as diversions and sediment traps shall be installed and stabilized with temporary seeding prior to grading the rest of the construction site. 2. Temporary seed shall be applied between construction operations on soil that will not be graded or reworked for 45 days or more. These idle areas should be seeded as soon as possible after grading or shall be seeded within 7 days. Several applications of temporary

seeding are necessary on typical construction projects. 3. The seedbed should be pulverized and loose to ensure the success of establishina veaetation. However temporary seeding shall not be postponed if ideal seedbed preparation is not possible.

4. Soil Amendments-Applications of temporary vegetation shall establish adequate stands of vegetation that may require the use of soil amendments. Soil tests should be taken on the site to predict the need for lime and fertilizer. 5. Seeding Method-Seed shall be applied uniformly with a cyclone seeder, drill, cultipacker seeder, or

hydroseeder. When feasible, seed that has been broadcast shall be covered by raking and dragging and then lightly tamped into place using a roller or cultipacker. If hydroseeding is used, the seed and fertilizer will be mixed on site and

the seeding shall be done immediately and without interruption. MULCHING TEMPORARY SEEDING 1. Applications of temporary seeding shall include mulch that shall be applied during or immediately after seeding. Seedings made during

optimum seeding dates and with favorable soil conditions and on very flat areas may not need mulch to achieve adequate stabilization. 2. Materials: * Straw-If straw is used, it shall be unrotted small-grain straw applied at

the rate of 2 tons/ac. or 90 lbs./1,000 sq. ft. (two to three bales). The mulch shall be spread uniformly by hand or mechanically so the soil surface is covered. For uniform distribution of hand-spread mulch, divide area into approximately 1,000 sq. ft. sections and spread two 45 lb. bales of straw in each section.

* Hydroseeders-If wood cellulose fiber is used, it shall be used at 2,000 lb./ac. or 46 lb./1,000 sq. ft. * Other-Other acceptable mulches include mulch matting applied

according to manufacturer's recommendations or wood chips

applied at 6 tons/ac. 3 Straw mulch shall be anchored immediately to minimize loss by wind or water.

4. Anchorina Methods:

* Mechanical-A disk, crimper, o similar type tool shall be set straight to punch or anchor the mulch material into the soil. Straw mechanically anchored shall not be finely chopped but generally, be left longer than 6 in.

* Mulch Nettings-Netting shall be used according to the manufacturer's recommendations. Netting may be necessary to hold mulch in place in areas of concentrated runoff and on critical slopes.

* Asphalt Emulsion-Asphalt shall be applied as recommended by the manufacturer or at the rate of 160 gal. /ac.

* Synthetic Binders-Synthetic binders such as Acrylic DLR (Agri-Tac), DCA-70, Petroset, Terra Tack or equivalent may be used at rates recommended by manufacturer.

* Wood Cellulose Fiber-Wood cellulose fiber binder shall be applied at a net dry weight of 750 lb./ac. The wood cellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 lbs./100 gal.

| Check | Dam |
|--|--------------|
| Low Center Section Must Cause Flow Over, Not Around, Check Dam 6" Minimum 6" Minimum 3" Maximum | 4" - 8" Rock |
| CROSS SECTION | PROFILE |

Specifications

for

1. The check dam shall be constructed of 4-8 in. diameter stone, placed so that it completely covers the width of the channel. 2. The top of the check dam shall be constructed so that the center is approximately 6 in. lower than the outer edges, so water will flow

across the center and not around

3

200 ft.

ROFILE 3. The maximum height of the check dam at the center of the weir shall not exceed 3 ft. 4. Spacing between dams shall be as shown in the plans or by the

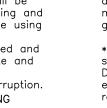
65 ft.

50 ft.

the ends. Check Dam Spacing Channel Slope Dam Height (ft.) < 5% 5 - 10% 10 - 15 % | 15 - 20% 30 ft. 20 ft. 15 ft. 1 65 ft 130 ft 65 ft. 40 ft. 30 ft. 2

100 ft.

following table:



lowing Not closer han 3" Not closer han 4" Not closer han 2"

)o not mow

PROFILE 1. Stone Size-Two-inch stone shall be used, or recycled concrete

> eauivalent. 2. Length-The construction entrance shall be as lona as required to stabilize high traffic areas but not less than 50 ft. (except on single residence lot where a 30-ft. minimum length apples).

> 3. Thickness-The stone layer shall be at least 6 in. thick.

4. Width-The entrance shall be at least 10 ft. wide, but not less than the full width at points where ingress or egress occurs.

5. Bedding-A geotextile shall be placed over the entire area prior to placing stone It shall have a Grab Tensile Strenath of at least 200 lb. and a Mullen Burst Strength of at least 190 lbs.

6. Culvert-A pipe or culvert shall be constructed under the entrance if needed to prevent surface water flowing across the entrance from being directed out onto paved surfaces.

* Mechanical-Use a disk. crimper or similar type tool set straight to punch or anchor the mulch material into the soil. Straw mechanically anchored shall not be finely chopped but generally be left longer than 6 in.

Specifications for

Mulching

1. Mulch and/or other appropriate

vegetative practices shall be applied

to disturbed areas within 7 days of

grading if the area is to remain

dormant (undisturbed) for more

* Straw-Straw shall be unrotted

small-grain straw applied at the

sa. ft. (two to three bales). The

hand or mechanically so the soil

surface is covered. For uniform

distribution of hand-spread mulch.

divide area into approximately 1,000

sa. ft. sections and spread two 45

lb. bales of straw in each section.

* Hydroseeders-Wood cellulose fiber

should be used at 2,000 lb./ac. or

* Other-Other acceptable mulches

3. Mulch Anchoring-Mulch shall be

following are accepted methods for

anchored immediately to minimize

loss by wind or runoff. The

anchoring mulch:

include mulch matting applied

recommendations or wood chips

according to manufacturer's

applied at 10-20 tons/ac.

46 lbs./1,000 sq. ft.

mulch shall be spread uniformly by

rate of 2 tons/ac. or 90 lbs./1,000

portions of the site which can be

2. Mulch shall consist of one of the

than 45 days or on areas and

brought to final grade.

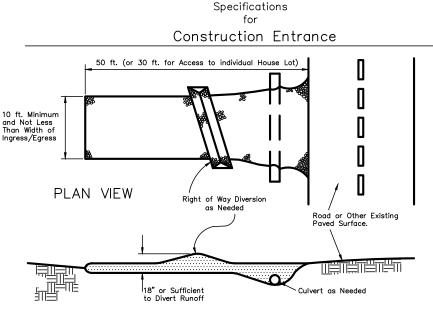
following:

* Mulch Nettings-Use according to the manufacturer's recommendations, following all placement and anchoring suggestions. Use in areas of water concentration and steep slopes to hold mulch in place.

* Asphalt Emulsion—For straw mulch, apply at the rate of 160 gal. /ac. (0.1 gal. /sy) into the mulch as it is being applied or as recommended by the manufacturer.

* Synthetic Binders-For straw mulch, synthetic binders such as Acrylic DLR (Agri-Tac), DCA-70, Petroset. Terra Tack or equivalent may be used at rates recommended by manufacturer.

* Wood Cellulose Fiber-Wood cellulose fiber may be used for anchoring straw. The fiber binder shall be applied at a net dry weight of 750 lb./acre. The wood cellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 lbs./100 gal.

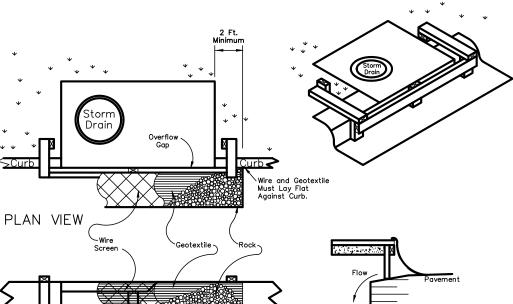


7. Water Bar-A water bar shall be constructed as part of the construction entrance if needed to prevent surface runoff from flowing the length of the construction entrance and out onto paved surfaces.

8. Maintenance—Top dressing of additional stone shall be applied as conditions demand. Mud spilled. dropped, washed or tracked onto public roads, or any surface where runoff is not checked by sediment controls, shall be removed immediately. Removal shall be accomplished by scraping or sweeping

9. Construction entrances shall not be relied upon to remove mud from vehicles and prevent off-site tracking Vehicles that enter and leave the construction site shall be restricted from muddy areas.





ELEVATION

1. Inlet protection shall be constructed either before upslope land disturbance begins or before the storm drain becomes operational.

2. The wooden frame is to be constructed of 2-by-4 in. construction grade lumber. The end spacers shall be a minimum of 1 ft. beyond both ends of the throat opening. The anchors shall be nailed to 2-by-4 in. stakes driven on the opposite side of the curb.

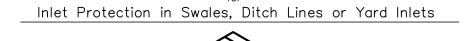
3. The wire mesh shall be of sufficient strength to support fabric and stone. It shall be a continuous piece with a minimum width of 30 in. and 4 ft. longer than the throat length of the inlet, 2 ft. on each

SECTION

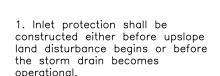
4. Geotextile cloth shall have an equivalent opening size (EOS) of 20-40 sieve and be resistant to sunlight. It shall be at least the same size as the wire mesh.

5. The wire mesh and geotextile cloth shall be formed to the concrete autter and against the face of the curb on both sides of the inlet and securely fastened to the 2-by-4 in. frame

6. Two-inch stone shall be placed over the wire mesh and geotextile in such a manner as to prevent water from entering the inlet under or around the geotextile cloth.



Specifications



`<u>⊿</u> ⊿

2. The earth around the inlet shall be excavated completely to a depth of at least 18 in.

3. The wooden frame shall be constructed of 2-by-4 in. construction grade lumber. The 2-by-4 in. posts shall be driven t. into the ground at four corners of the inlet and the top portion of 2-by-4 in. frame assembled using the overlap joint shown. The top of the frame shall be at least 6 in. below adjacent roads if ponded water would pose a safety hazard to traffic.

4. Wire mesh shall be of sufficient strength to support fabric with water fully impounded against it. It shall be stretched tightly around the frame and fastened securely to the frame

5. Geotextile shall have an equivalent opening size of 20-40 sieve and be resistant to sunlight. It shall be stretched tightly around the frame and fastened securely. shall extend from the top of the frame to 18 in. below the inlet notch elevation. The geotextile shall overlap across one side of the inlet so the ends of the cloth are not fastened to the same post.

4

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4. 4. 4.

2" x 4" Frame

Geotextile Over

Wire Mesh Backina

出売り

Compac

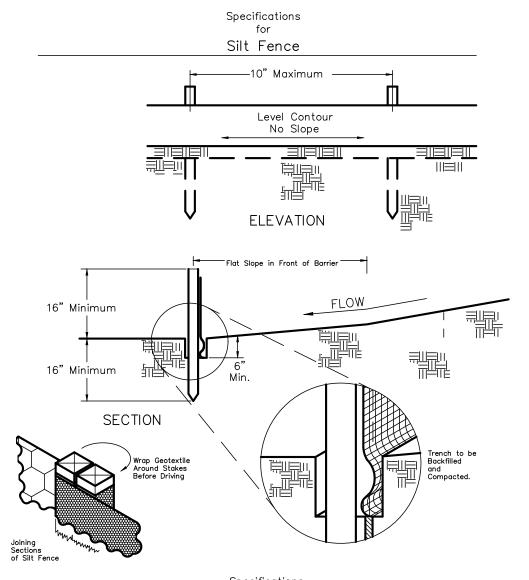
Around

Inlet

而出而 Backfill

6. Backfill shall be placed around the inlet in compacted 6-in. layers until the earth is even with notch elevation on ends and top elevation on sides.

7. A compacted earth dike or a check dam shall be constructed ir the ditch line below the inlet if the inlet is not in a depression and if runoff bypassing the inlet will not flow to a settling pond. The top of the earth dikes shall be at least 6 in. higher than the top of the frame.



Specifications for Silt Fence

1. Silt fence shall be constructed before upslope land disturbance begins.

2. All silt fences shall be placed as close to the contour as possible so that water will not concentrate at low points in the fence and so that small swales or depressions, which may carry small concentrated flows to the silt fence, are dissipated along its length.

3. To prevent water ponded by the silt fence from flowing around the ends, each end shall be constructed upslope so that the ends are at a higher elevation.

4. Where possible, silt fence shall be placed on the flattest area available.

5. Where possible, vegetation shall be preserved for 5 ft. (or as much as possible) upslope from the silt fence. f vegetation is removed, it shall be reestablished within 7 days from the installation of the silt fence.

6. The height of the silt fence shall be a minimum of 16 in. above the original ground surface.

7. The silt fence shall be placed in a trench cut a minimum of 6 in. deep. The trench shall be cut with a trencher, cable laying machine, or other suitable device that will ensure an adequately uniform trench depth.

8. The silt fence shall be placed with the stakes on the downslope side of the geotextile and so that 8-in. of cloth are below the ground surface. Excess material shall lie on the bottom of the 6-in. deep trench. The trench shall be backfilled and compacted.

9. Seams between section of silt fence shall be overlapped with the end stakes of each section wrapped together before driving into the around.

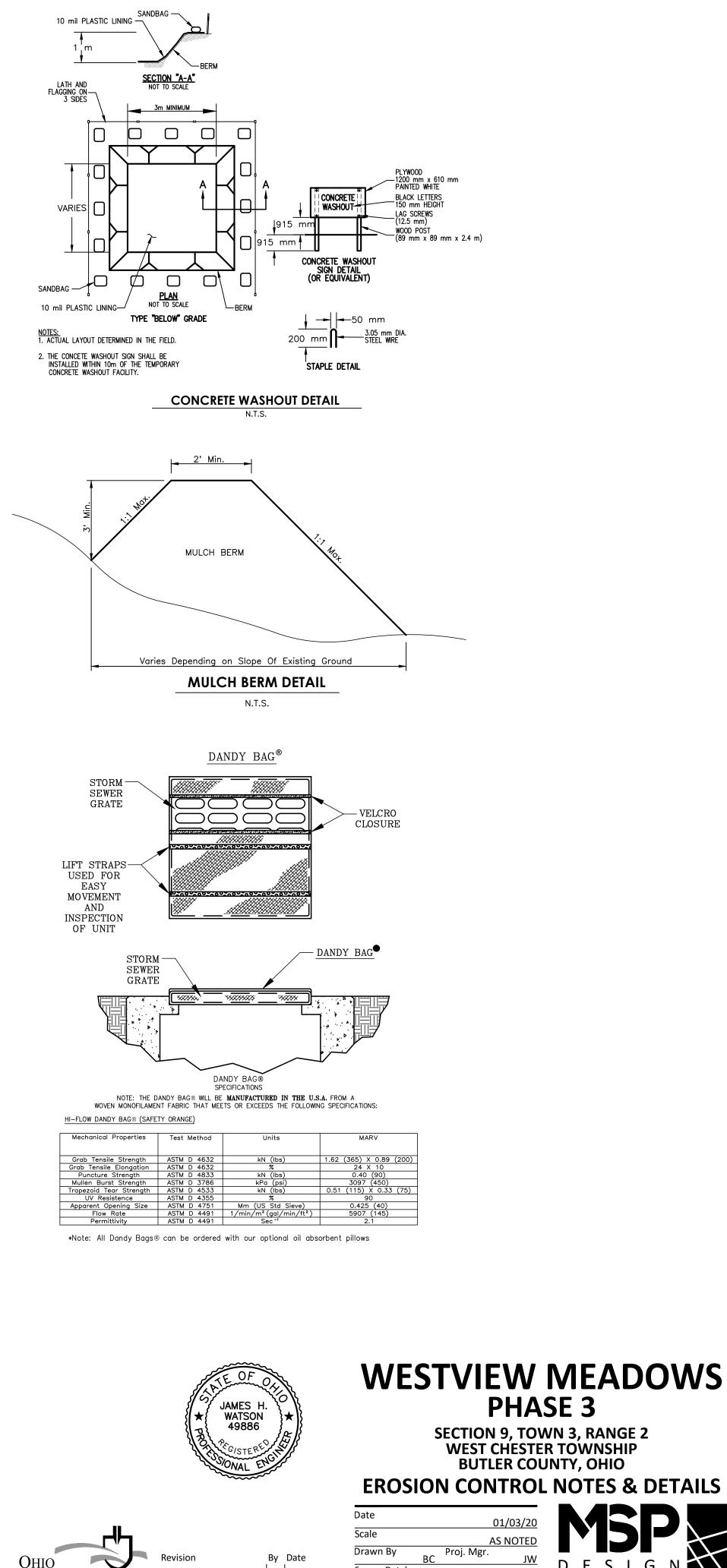
10. Maintenance-Silt fence shall allow runoff to pass only as diffuse flow through the geotextile. If runoff overtops the silt fence, flows under or around ends, or in any other way becomes a concentrated flow, on of the following shall be performed, as appropriate: 1) The layout of the silt fence shall be changed, 2) Accumulated sediment shall be removed, or 3) Other practices shall be installed.

Criteria for Silt Fence Materials

1. Fence Posts-The length shall be a minimum of 32 in. long. Wood posts will be 2-by-2 in. of hardwood of sound quality. The maximum spacing between posts shall be 10 ft. 2. Silt Fence Fabric shall be ODOT

Type C Geotextile Fabric or as described by the chart below:

| Mimimum Tensile Maximum Elongati Minimum Puncture Mimimum Tear S Mimimum Burst S Apparent Opening Mimimum Permitti |
|--|



SERVICE Call Before You Dig 1-800-362-2764 CALL TWO WORKING DAYS BEFORE YOU DIG-(NON MEMBERS MUST BE CALLED DIRECTLY)

Utilities Protection

JW Survey Database N/A DWG 16619004-DTL-00 X-Ref(s) Project Number 16619.00 File No Sheet No.

DESI G McGill Smith Punshon Architecture 3700 Park 42 Drive Engineering Suite 190B

Cincinnati OH 45241

Phone 513.759.0004

www.mspdesign.com

Landscape Architecture

Planning

Survevin