

# JEFFERSON COUNTY DEPARTMENT OF PUBLIC WORKS COUNTY COURTHOUSE PARKING LOT IMPROVEMENTS - PHASE I

## 300 FIRST STREET

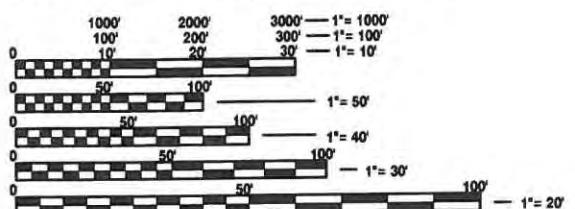
# **HILLSBORO, JEFFERSON COUNTY, MISSOURI**

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## **SCALES USED FOR VARIOUS PLAN SHEETS**



**FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD  
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT  
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS  
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.**

**MISSOURI ONE CALL  
MISSOURI ONE CALL SYSTEM, INC.  
1-800-344-7483**

## LOCATION MAP

**NORTH 1/2 OF SECTION 3  
TOWNSHIP 40 NORTH  
RANGE 4 EAST  
OF THE 3RD P.M.  
CENTRAL TOWNSHIP**



**LOCATION OF SECTION INDICATED THUS: -**

PARKING LOT IMPROVEMENTS - PHASE I  
JEFFERSON COUNTY DEPARTMENT OF PUBLIC WORKS  
COUNTY COURTHOUSE  
725 MAPLE STREET, P.O. BOX 100  
HILLSBORO, MO 63050

| MARK | DATE | DESCRIPTION |
|------|------|-------------|
|      |      |             |
|      |      |             |
|      |      |             |

DATE: 5/28/15

PROJECT NO: 845-1175

|         |        |        |
|---------|--------|--------|
| DESIGN: | DRAWN: | CHECK: |
| KJW     | JMA    | MEB    |

**COVER SHEET**

G-001

## GENERAL NOTES:

- EXISTING SITE IMPROVEMENTS DISTURBED OUTSIDE THE DESIGNATED CONSTRUCTION AREAS ARE TO BE REPLACED WITH EQUAL OR BETTER CONSTRUCTION AT THE EXPENSE OF THE CONTRACTOR. EVERY EFFORT SHALL BE MADE TO MINIMIZE SUCH DISTURBANCES. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGE TO EXISTING CONSTRUCTION AND UTILITIES TO REMAIN AND SHALL REPAIR DAMAGE CAUSED BY THE WORK AT NO ADDITIONAL COST TO THE OWNER.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN DRAINAGE FLOWS AT ALL TIMES DURING THE PERFORMANCE OF THE WORK. DAMAGE RESULTING FROM IMPROPER MAINTENANCE OF DRAINAGE SHALL BE IMMEDIATELY REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. COST OF MAINTAINING FLOWS IS INCIDENTAL TO THE CONTRACT.
- THE CONTRACTOR SHALL TAKE NOTE OF ALL EXISTING CONDITIONS AND BE PREPARED TO MOVE OR DISPOSE OF OBJECTS OR MATERIALS WITHIN THE LIMITS OF THE PROJECT. SUCH WORK SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE.
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING AND NEW DIMENSIONS WITH FIELD CONDITIONS PRIOR TO BIDDING, FABRICATION AND CONSTRUCTION AND MAKE MINOR ADJUSTMENTS AS NECESSARY AND NOTIFY THE ENGINEER OF ANY CONDITIONS THAT MAY AFFECT THE OUTCOME OF THE WORK.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER, ENGINEER, AND OTHER TRADES THROUGHOUT THE PROJECT.
- CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AND SIGNAGE IN ACCORDANCE WITH CONSTRUCTION STANDARDS AND SPECIFICATIONS OF ALL LOCAL GOVERNING AGENCIES, THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND MODOT AS DETERMINED BY THE ENGINEER. ACCESS TO PROPERTIES AND ENTRANCES SHALL BE PROVIDED BY THE CONTRACTOR AT ALL TIMES AND COORDINATED WITH THE OWNER, INCLUDING ANY INTERRUPTION OF ACCESS TO THE SITE.
- COHESIVE FILL UNDER BUILDINGS, STEPS, PAVED AREAS, UTILITY LINES AND TRENCH BACKFILLS SHALL BE COMPAKTED TO A MINIMUM 95% OF MAXIMUM DRY DENSITY. WELL GRADED AGGREGATE FILL UNDER SLABS ON GRADE, PAVED AREAS, UTILITY LINES AND TRENCH BACKFILLS SHALL BE COMPAKTED TO A MINIMUM 95% OF MAXIMUM DRY DENSITY. WELL GRADED AGGREGATE FILL UNDER FOOTINGS SHALL BE COMPAKTED TO A MINIMUM 100% OF MAXIMUM DRY DENSITY. UNDER LAWN OR UNPAVED AREAS, COMPACT SOIL TO A MINIMUM 85% MAXIMUM DRY DENSITY. COMPAKTION SHALL BE IN ACCORDANCE WITH ASTM D-698 WITH 6" MAXIMUM COMPAKTED LIFTS, UNLESS OTHERWISE SPECIFIED. CONTRACTOR SHALL ADJUST AFOREMENTIONED COMPAKTION INFORMATION BASED ON GEOTECHNICAL REPORT AND PROJECT SPECIFICATIONS IF SAID GEOTECHNICAL REPORT AND PROJECT SPECIFICATIONS DIFFERS FROM AFOREMENTIONED COMPAKTION INFORMATION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION PRIOR TO ANY WORK AND MAINTENANCE THROUGHOUT THE PROJECT OF ALL NECESSARY SEDIMENT AND EROSION CONTROL MEASURES AND MODEL BEST MANAGEMENT PRACTICES (BMP) FOR LAND DISTURBANCE. THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING EROSION OF THE SOIL EXPOSED BY DISTURBANCE DUE TO HIS/HER OPERATIONS. THE CONTRACTOR SHALL CONSTRUCT SAID EROSION CONTROL MEASURES IN ACCORDANCE WITH THE CONSTRUCTION STANDARDS AND SPECIFICATIONS OF MODNR AND MODOT, PROJECT SPECIFICATIONS AND AS DIRECTED ON THE PLANS. ADDITIONAL MEASURES MAY BE REQUIRED AS DIRECTED BY ALL LOCAL GOVERNING AGENCIES, MODNR, MODOT AND/OR ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL EROSION CONTROL MEASURES AND REPAIR OF ANY ERODED AREAS AFTER PROJECT ACCEPTANCE AND VEGETATION IN ALL LAWN DISTURBED AREAS HAS BEEN ESTABLISHED. NO ADDITIONAL COMPENSATION IS ALLOWED FOR TEMPORARY EROSION CONTROL.
- ALL CONSTRUCTION AND MATERIALS USED SHALL CONFORM TO THE CONSTRUCTION STANDARDS AND SPECIFICATIONS OF ALL LOCAL GOVERNING AGENCIES, JEFFERSON COUNTY, MODNR, AWWA, ASTM, MODOT, THE NATIONAL MUTCD, AND THE CURRENT APPROVED "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES" (ADAAG).
- NO WORK SHALL OCCUR ON THE SITE UNTIL ALL NECESSARY PERMITS ARE SECURED WITH ALL LOCAL GOVERNING AGENCIES. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED AND FUNCTIONING BEFORE ANY PERMIT WILL BE ISSUED. PERMITS AND LICENSES NECESSARY FOR THE PROCESSION OF WORK SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR.
- ALL DISTURBED AREAS AND LAWN AREA, EXCLUDING PAVED AND BUILDING AREAS, SHALL BE GRADED, SEEDED, FERTILIZED, MULCHED AND STRAWED WITHIN 14 DAYS FROM THE COMPLETION OF GRADE OPERATIONS OR SUSPENSION OF WORK AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
- MANHOLES AND STORM STRUCTURES SHALL BE CONSTRUCTED OF CAST-IN-PLACE OR PRE-CAST CONCRETE. SHOP DRAWING SHALL BE REQUIRED FOR ALL NONSTANDARD CONCRETE STRUCTURES.
- ALL ELEVATIONS SHOWN ARE REFERENCED TO THE CONTROL POINTS SHOWN HEREIN, EXCEPT AS NOTED ON THE PLANS. PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
- HOT MIX BITUMINOUS MATERIALS SHALL NOT BE PLACED ON EXISTING BITUMINOUS/CONCRETE SURFACES OR ON AGGREGATE BASES WITHOUT THE APPLICATION OF BITUMINOUS MATERIALS PRIME COAT.
- ALL TEMPORARY AGGREGATE PLACED BY THE CONTRACTOR SHALL BE REMOVED, GRADED, SEEDED, FERTILIZED, MULCHED AND STRAWED AT THE COMPLETION OF THE CONTRACT AS DIRECTED BY THE ENGINEER.
- STORE TOPSOIL ON SITE AT AN APPROVED LOCATION AS DIRECTED BY THE ENGINEER AND OWNER. EXCESS TOPSOIL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AS NECESSARY AT NO ADDITIONAL COST TO THE OWNER.
- ANY PROPERTY CORNERS OR OTHER PERMANENT SURVEY CONTROL MONUMENTS DISTURBED BY CONSTRUCTION SHALL BE VERIFIED AND/OR RESET AT THE CONCLUSION OF THE PROJECT CONSTRUCTION BY A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF MISSOURI AND EMPLOYED BY THE CONTRACTOR. WRITTEN VERIFICATION SHALL BE PROVIDED TO THE OWNER, THROUGH THE ENGINEER, THAT ALL SAID EXISTING PROPERTY CORNERS AND/OR PERMANENT SURVEY CONTROL MONUMENTS SHOWN IN THE CONSTRUCTION PLANS HAVE BEEN PROTECTED AND/OR RESET.
- RIGHT-OF-WAYS, PROPERTY LINES AND TOPOGRAPHY SHOWN HEREON HAVE BEEN TAKEN FORM THE BEST AVAILABLE RECORDS AND MUST BE VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION.
- PROPERTY LINES ARE BASED ON RECORD INFORMATION, AS SHOWN, (I.E. SUBDIVISION PLATS, DEEDS, ETC.) OBTAINED FROM THE RECORDER'S OF DEEDS OFFICE, JEFFERSON COUNTY, MISSOURI.
- THE CONTRACTOR WILL COORDINATE ANY INTERRUPTION OF PARCEL OWNERS ACCESS WITH THEIR PARCEL (I.E. INSTALLATION OF WATERMAIN ACROSS DRIVEWAYS, ETC.) WITH THAT RESPECTIVE PARCEL OWNER PRIOR TO CONSTRUCTION AND INSTALLATION OF THE WATERMAIN.
- PRESERVE EXISTING TREES, WOODLANDS AND UNDERSTORY OUTSIDE THE LIMITS OF CONSTRUCTION. CONTRACTOR SHALL BE VERY CONSCIENCE ABOUT ADJACENT TREE REMOVAL TO CONSTRUCTION AREAS. CONTRACTOR SHALL ONLY REMOVE THE MINIMUM AMOUNT OF NECESSARY TREES TO COMPLETE THIS PROJECT. CONTRACTOR SHALL COORDINATE TREE REMOVAL WITH THE OWNER TO DETERMINE THE TREES THE OWNER WOULD LIKE REMOVED AND THE TREES THE OWNER WOULD LIKE TO PRESERVE.
- EXISTING FENCING THAT IS NECESSARY TO BE REMOVED AND REPLACED TO INSTALL PROPOSED IMPROVEMENTS SHALL BE REMOVED AND REPLACED TO THE SAME LOCATION PRIOR TO REMOVAL. ONCE THE EXISTING FENCING IS REMOVED DURING CONSTRUCTION THE CONTRACTOR SHALL INSTALL TEMPORARY INTERIM FENCING AND SAID TEMPORARY FENCING SHALL BE MAINTAINED AND REMAIN IN PLACE UNTIL THE EXISTING FENCING IS TO BE REPLACED AS CLOSE TO ITS ORIGINAL CONDITION AS POSSIBLE. TEMPORARY FENCING TO BE STRUCTURALLY SOUND AND CAPABLE OF CONFINING CHILDREN AND FAMILY PETS TO THE FENCED YARD AREA, CONTRACTOR MAY REUSE EXISTING FENCING MATERIALS SO LONG AS THE MATERIALS ARE IN GOOD, STABLE, AESTHETICALLY PLEASING CONDITION, IF NOT, THE EXISTING FENCING MATERIALS SHALL BE REPLACED WITH NEW MATERIALS OF SAME TYPE OF CONSTRUCTION, SIZE AND DIMENSIONS, EXISTING FENCING MATERIALS TO BE COORDINATED WITH AND AGREED UPON BY THE DISTRICT FOR REUSE ON THE PROJECT.

## SITE GRADING NOTES:

- CONTRACTOR SHALL NOTIFY THE OWNER AND ALL LOCAL GOVERNING AGENCIES 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY WORK.
- CONTRACTOR TO PROVIDE ADEQUATE OFF-STREET PARKING FOR CONSTRUCTION EMPLOYEES. PARKING ON NON-SURFACED AREAS IS PROHIBITED IN ORDER TO ELIMINATE THE CONDITION WHEREBY MUD FROM CONSTRUCTION AND EMPLOYEE VEHICLES IS TRACKED ONTO THE PAVEMENT CAUSING HAZARDOUS ROADWAY AND DRIVING CONDITIONS.
- CONTRACTOR SHALL KEEP ALL PAVEMENT SURFACES CLEAR OF MUD AND DEBRIS. ALL PAVEMENT SURFACES USED FOR CONSTRUCTION ACCESS THERETO SHALL BE CLEANED THROUGHOUT THE DAY.
- EROSION AND SILTATION CONTROL SHALL BE INSTALLED PRIOR TO ANY WORK AND BE MAINTAINED THROUGHOUT THE PROJECT TO PREVENT DAMAGE OF OFFSITE PROPERTIES UNTIL ACCEPTANCE OF THE WORK BY THE OWNER AND/OR CONTROLLING REGULATORY AGENCY. PAVEMENT SURFACE HAS BEEN INSTALLED AND ADEQUATE VEGETATIVE GROWTH IN ALL DISTURBED AREAS HAS BEEN ESTABLISHED AND INSURES NO FURTHER EROSION OF THE SOIL. ADDITIONAL SILTATION CONTROL MAY BE REQUIRED AS DEEMED NECESSARY BY ALL LOCAL GOVERNING AGENCIES, MODNR, MODOT, ENGINEER AND/OR OWNER.
- WHERE NATURAL VEGETATION IS REMOVED DURING GRADING, VEGETATION SHALL BE REESTABLISHED IN SUCH A DENSITY AS TO PREVENT EROSION.
- WHEN WORK OPERATIONS ARE COMPLETED OR SUSPENDED FOR MORE THAN 14 DAYS, ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO RETAIN SOIL MATERIALS ON SITE. PROTECTIVE MEASURES MAY BE REQUIRED BY ALL LOCAL GOVERNING AGENCIES, MODNR AND/OR MODOT SUCH AS PERMANENT SEEDING, PERIODIC WETTING, MULCHING, OR OTHER SUITABLE MEANS.
- IF CUT AND FILL OPERATIONS OCCUR DURING A SEASON NOT FAVORABLE FOR IMMEDIATE ESTABLISHMENT OF PERMANENT GROUND COVER, A FAST GERMINATING ANNUAL SUCH AS RYE GRASSES OR SUDAN GRASSES SHALL BE UTILIZED TO RETARD EROSION, IF ADEQUATE STORMWATER DETENTION AND EROSION CONTROL DEVICES HAVE NOT BEEN ESTABLISHED.
- ALL FINISHED GRADES (AREAS NOT TO BE DISTURBED BY FUTURE IMPROVEMENT) IN EXCESS OF 3:1 (H:V) SLOPES SHALL BE MULCHED BY CONSTRUCTING EROSION CONTROL BLANKET PER PROJECT SPECIFICATIONS AND MODNR STANDARDS AND SPECIFICATIONS. THE EROSION CONTROL BLANKET SHALL BE EXCLOSURE BLANKET.
- NO EXCAVATION SHALL BE MADE SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY ADJOINING PROPERTY OR ANY PUBLIC OR PRIVATE STREET WITHOUT SUPPORTING AND PROTECTING SUCH PROPERTY OR PUBLIC OR PRIVATE STREET FROM SETTLING, CRACKING OR OTHER DAMAGE.
- STORM WATER STRUCTURES, PIPES, OUTLETS AND CHANNELS SHALL BE PROTECTED BY SILT BARRIERS AND KEPT FREE OF WASTE AND SILT AT ALL TIMES PRIOR TO FINAL SURFACE STABILIZATION AND/OR PAVING. INTERIM STORM WATER DRAINAGE CONTROL IN THE FORM OF SILTATION CONTROL MEASURES IS REQUIRED.
- SILTATION FENCES SHALL BE INSPECTED PERIODICALLY AND AFTER EVERY STORM EVENT FOR DAMAGE AND THE AMOUNT OF SEDIMENT THAT HAS ACCUMULATED. REMOVAL OF SEDIMENT WILL BE REQUIRED WHEN IT REACHES 1/2 THE HEIGHT OF THE SILTATION FENCE OR 12", WHICHEVER IS LESS.
- ALL TRASH AND DEBRIS ON SITE, EITHER EXISTING OR FROM CONSTRUCTION, MUST BE REMOVED AND PROPERLY DISPOSED OF OFFSITE. DEBRIS AND FOUNDATION MATERIAL FROM ANY EXISTING ON SITE BUILDING OR STRUCTURE THAT IS SCHEDULED TO BE REMOVED FOR THIS PROJECT MUST BE PROPERLY DISPOSED OF OFFSITE. EXCESS, SURPLUS, UNUSABLE, UNSTABLE AND/OR UNSUITABLE MATERIALS RESULTING FROM CONSTRUCTION OF THIS PROJECT, INCLUDING THOSE RESULTING FROM REMOVAL OF EXISTING SIDEWALKS, PAVEMENTS, BUILDINGS AND/OR STRUCTURES, SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR AT HIS/HER OWN EXPENSE IN A LEGAL MANNER, OUTSIDE THE SUBJECT PROPERTY IN SUCH A MANNER THAT PUBLIC OR PRIVATE PROPERTY WILL NOT BE DAMAGED OR ENDANGERED. COORDINATE WITH THE OWNER.
- ALL EXCAVATIONS, GRADING OR FILLING SHALL HAVE A FINISHED GRADE NOT TO EXCEED A 3:1 SLOPE (33%), UNLESS SPECIFICALLY APPROVED OTHERWISE.
- CONTRACTOR TO INSTALL ALL PROPOSED IMPROVEMENTS TO MATCH ALL EXISTING GRADES, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL GRADE AND PREPARE ALL SUBGRADES TO WITHIN 0.1 FEET, MORE OR LESS, OF PLAN GRADE.
- CONTRACTOR TO PROVIDE POSITIVE DRAINAGE AWAY FROM ALL EXISTING AND PROPOSED BUILDINGS AT A MINIMUM SLOPE OF 2%, UNLESS OTHERWISE NOTED. ALL ON SITE STORMWATER FLOWS SHALL BE DIRECTED AND POSITIVELY DRAINED TO PROPOSED AND/OR EXISTING STORM FACILITIES, STRUCTURES, SWALES OR OFFSITE. STORMWATER SHALL BE DISCHARGED AT AN ADEQUATE NATURAL DISCHARGE POINT. SINKHOLES ARE NOT ADEQUATE NATURAL DISCHARGE POINTS. PONDING OF STORMWATER WILL NOT BE PERMITTED DURING OR AFTER CONSTRUCTION.
- ALL PAVEMENT (CONCRETE AND ASPHALT), SIDEWALK, HANDICAP RAMP, AND ALL APPURTENANCES CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE CONSTRUCTION STANDARDS AND SPECIFICATIONS OF ALL LOCAL GOVERNING AGENCIES, MODOT, MODNR, AND THE CURRENT APPROVED "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES" (ADAAG).
- CONTRACTOR TO HAVE A SOILS ENGINEER VERIFY THAT ALL COMPRESSIBLE MATERIAL HAS BEEN REMOVED PRIOR TO PLACEMENT OF FILL, AND THAT ALL FILL UNDER SANITARY AND STORM SEWER AND OTHER UTILITY LINES CONSTRUCTED ABOVE GRADE HAS BEEN COMPAKTED TO A MINIMUM 95% OF MAXIMUM DRY DENSITY DETERMINED BY ASTM D-698. FILL IS TO BE PLACED IN MAXIMUM 6" LIFTS. TESTS SHALL BE TAKEN AT A MAXIMUM OF 50' INTERVALS ALONG THE ROUTE OF THE PIPE IN FILL AREAS. TEST SHALL BE TAKEN AT 2' INTERVALS VERTICALLY STARTING AT THE BOTTOM OF THE FILL AND CONTINUING THROUGH THE FILL TO THE TOP OF THE PIPE. TESTS SHALL BE TAKEN AT 6" INTERVALS HORIZONTALLY ON BOTH SIDES OF THE PIPE FOR A DISTANCE EQUAL TO THE DEPTH OF THE FILL FROM THE TOP OF PIPE TO VIRGIN SOIL.
- CONTRACTOR TO REMOVE AND DISPOSE OF ALL VEGETATION AFFECTING CONSTRUCTION WITHIN THE CONSTRUCTION LIMITS SHOWN ON THE PLANS IN ACCORDANCE WITH MODOT AND MODNR STANDARDS AND SPECIFICATIONS, UNLESS OTHERWISE NOTED. ALL REMOVED VEGETATION SHALL BE DISPOSED OF WITHIN 7 DAYS OF REMOVAL.
- PROPOSED CONTOURS AND SPOT ELEVATIONS GENERALLY REFLECT ULTIMATE FINISH GRADE. FOR EARTH GRADES, THE FULL DEPTH OF PAVEMENT MUST BE SUBTRACTED FROM THE ELEVATIONS SHOWN. SEE PAVEMENT SECTION DETAILS AS APPLICABLE FOR SIDEWALKS AND PAVEMENT AREAS.
- THE REMOVAL OF ALL UNUSABLE, UNSTABLE AND/OR UNSUITABLE MATERIALS IN ALL CUT AND FILL AREAS AND THEIR REPLACEMENT WITH SATISFACTORY MATERIAL, WHERE REQUIRED, SHALL BE INCIDENTAL TO THE CONTRACT.
- ALL TOPSOIL, VEGETATION, ROOTS, AND ANY SOFT SOILS SHALL BE STRIPPED FROM SIDEWALK, PAVEMENT AND BUILDING AREAS. SITE SHALL THEN BE PROOF-ROLLED, SCARIFIED AND PROCESSED TO AN OPTIMUM MOISTURE CONTENT TO ATTAIN REQUIRED COMPAKTION DENSITY OF SUBGRADE SOILS. ALL SUBGRADE SOILS SHALL BE COMPAKTED TO A MINIMUM 95% OF MAXIMUM DRY DENSITY DETERMINED BY ASTM D-698, FOR A DEPTH OF AT LEAST 12 INCHES BELOW THE SURFACE FOR PREPARED SUBGRADE.
- CONTRACTOR IS TO ARRANGE FOR DENSITY TESTING PRIOR TO CONSTRUCTION AND DURING CONSTRUCTION TO VERIFY THAT THE COMPAKTION MEETS THE SPECIFICATIONS AND THAT THE SUBGRADE IS WITHOUT SOFT SPOTS. COPIES OF THE TESTING SHALL BE SUPPLIED TO THE OWNER AND ENGINEER/ARCHITECT.
- CONTRACTOR SHALL COORDINATE WITH AN ENGINEERING OR MATERIALS TESTING FIRM FOR TESTING FILL MATERIALS, PAVEMENT COMPONENTS, AND OTHER CONSTRUCTION MATERIALS. CONTRACTOR SHALL PROVIDE AT LEAST 24 HOURS ADVANCED NOTICE FOR TESTING PERSONNEL. ALL REQUIRED TESTING SERVICES SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR.

**HR**  
HURST-ROSCH  
ENGINEERS INC.

PROFESSIONAL ENGINEERS INSTRUMENTED  
3675 W. OUTER ROAD  
SUITE 101  
ARNOLD, MO 63010  
PH: 636.333.3351

HILLSBORO, IL  
EAST ST. LOUIS, IL  
MARION, IL  
SPRINGFIELD, IL  
NEOSHO, MO

STATE OF MISSOURI  
MAP CO. 2011  
NUMBER 2011025295  
SPECIAL DUAL ENGINEER  
W.M. Bloom  
SIGNATURE 1/22/16  
DATE 1/23/17  
LICENSE EXPIRES

PARKING LOT IMPROVEMENTS - PHASE I  
JEFFERSON COUNTY DEPARTMENT OF PUBLIC WORKS  
725 MAPLE STREET, P.O. BOX 100  
HILLSBORO, MO 63050



MARK DATE DESCRIPTION  
DATE: 5/28/15  
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GENERAL NOTES

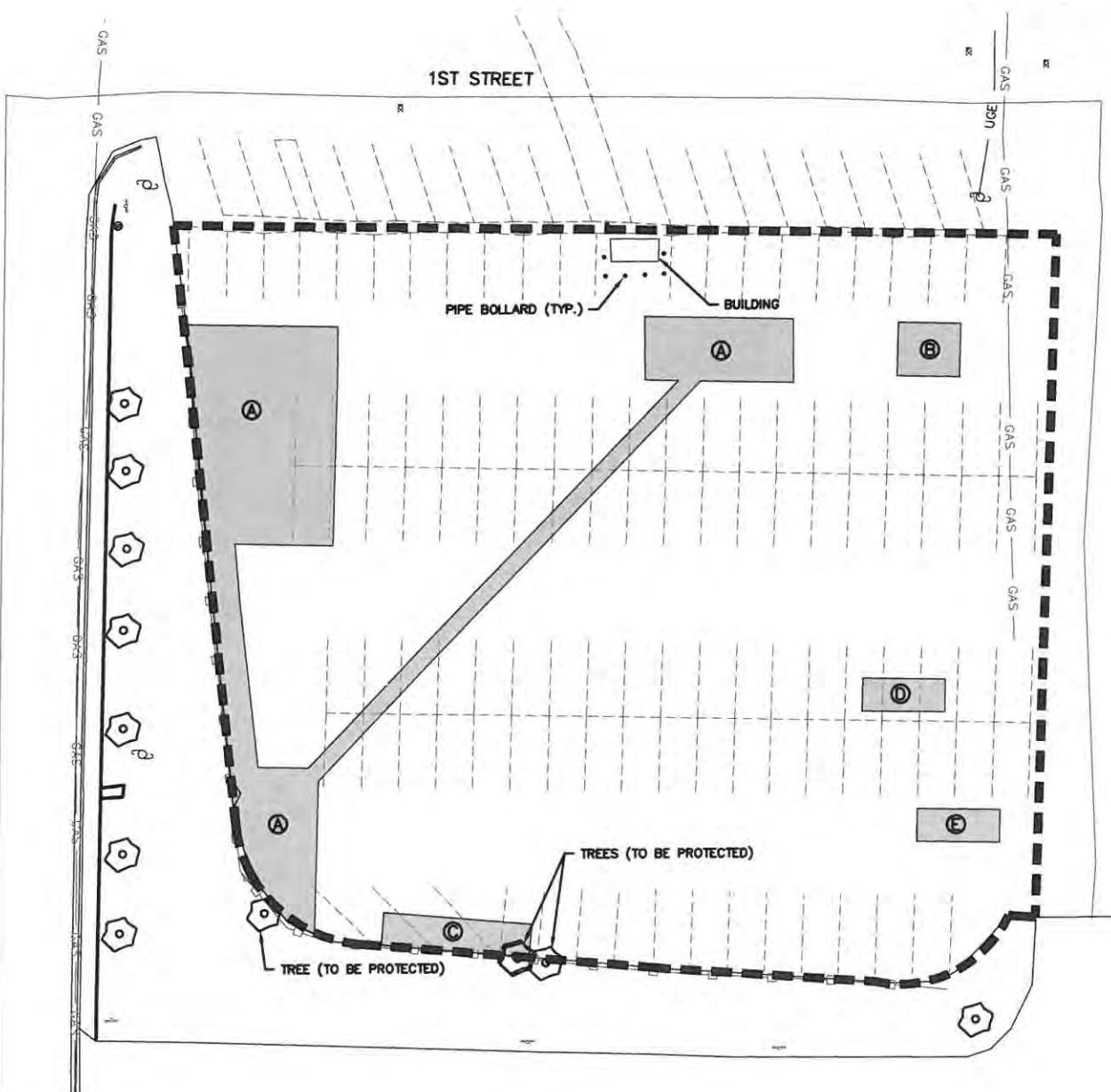
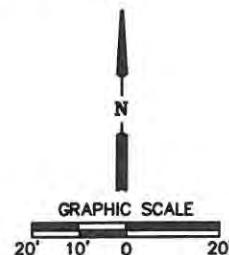
### UNDERGROUND UTILITY NOTE

ANY UNDERGROUND FACILITIES, STRUCTURES, OR UTILITIES THAT HAVE BEEN PLOTTED AND SHOWN FROM AVAILABLE INFORMATION AND RECORDS. THEREFORE, THEIR LOCATION AND RELATIONSHIP TO NEW PROPOSED WORK MUST BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE LOCATION OF UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE LOCATED PRIOR TO ANY WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL THE LOCAL GOVERNING AGENCIES AND UTILITY COMPANIES PRIOR TO CONSTRUCTION TO DETERMINE THEIR UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES EXACT LOCATION AND THE EXISTENCE OF ANY NOT SHOWN. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES AND THE OWNER AS TO THE RELOCATION OR REMOVAL OF ANY UTILITIES SHOWN OR NOT SHOWN. THE ENGINEER/ARCHITECT AND THE OWNER DO NOT WARRANT OR GUARANTEE THE COMPLETENESS OR THE CORRECTNESS OF THE INFORMATION GIVEN.

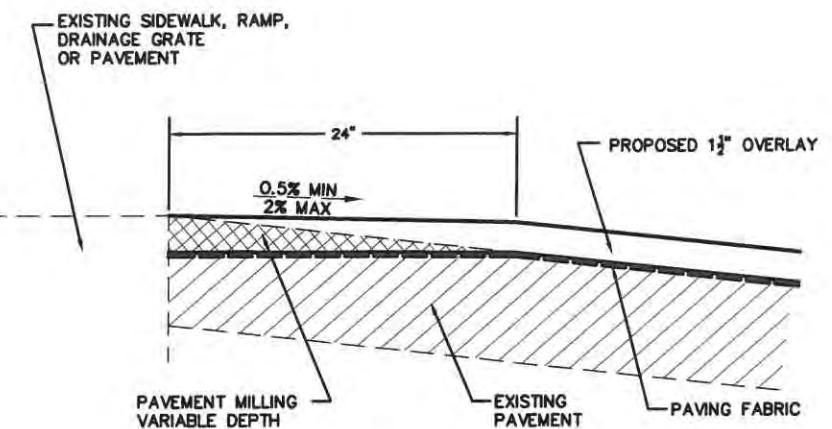
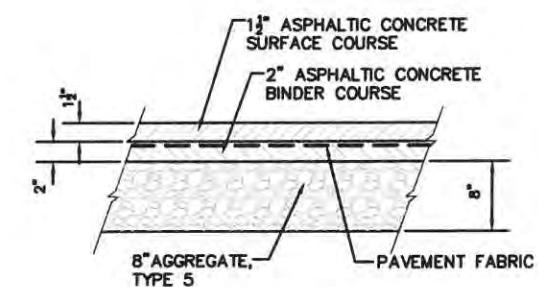
C-001

## NOTES:

- ESTIMATED PATCH AREA IS 522 SY. QUANTITIES SHOWN ARE FOR CONTRACTOR'S INFORMATION ONLY. PATCH AREAS MAY BE ADJUSTED IN THE FIELD AS DIRECTED BY THE ENGINEER. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ADJUSTMENTS THAT DO NOT EXCEED TOTAL ESTIMATED PLAN QUANTITY AS SHOWN.
- MOVING OF EXISTING PARKING BUMPERS (WHEEL STOPS) FOR 1 $\frac{1}{2}$ " ASPHALT OVERLAY SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- OVERLAY WILL BE REQUIRED TO BE COMPLETED DURING OFF HOURS, ON WEEKENDS OR COUNTY OBSERVED HOLIDAYS. OFF HOURS SHALL BE CONSIDERED BETWEEN 7:00 PM AND 7:00 AM ON DAYS APPROVED BY THE COUNTY. CONTRACTOR SHALL PROVIDE 72 HOURS NOTICE FOR REQUESTS FOR FULL LOT CLOSURES FOR COUNTY APPROVAL. TYPE III BARRICADES WILL BE REQUIRED FOR THE LOT CLOSURES AND WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT.



PLAN

MILLING DETAIL  
NOT TO SCALEPAVEMENT PATCH DETAIL  
NOT TO SCALE

## APPROXIMATE PATCH AREAS

| LOCATION | AREA(SF) |
|----------|----------|
| A        | 3899     |
| B        | 195      |
| C        | 288      |
| D        | 160      |
| E        | 160      |

TOTAL 4702 SF  
522 SY

## LEGEND

- - - - LIMITS OF 1 1/2" OVERLAY

PAVEMENT PATCHING (SEE DETAIL THIS SHEET)

PARKING LOT IMPROVEMENTS - PHASE I  
JEFFERSON COUNTY DEPARTMENT OF PUBLIC WORKS  
COUNTY COURTHOUSE  
725 MAPLE STREET, P.O. BOX 100  
HILLSBORO, MO 63050

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PAVEMENT PATCH PLAN

C-101

**HR**  
HURST-ROSCHE  
ENGINEERS INC.  
PROFESSIONAL ENGINEERING SERVICES  
3675 W. OUTER ROAD  
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*John E. Bloom*  
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*M.E. Bloom*  
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STRIPING PLAN

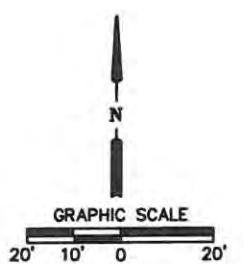
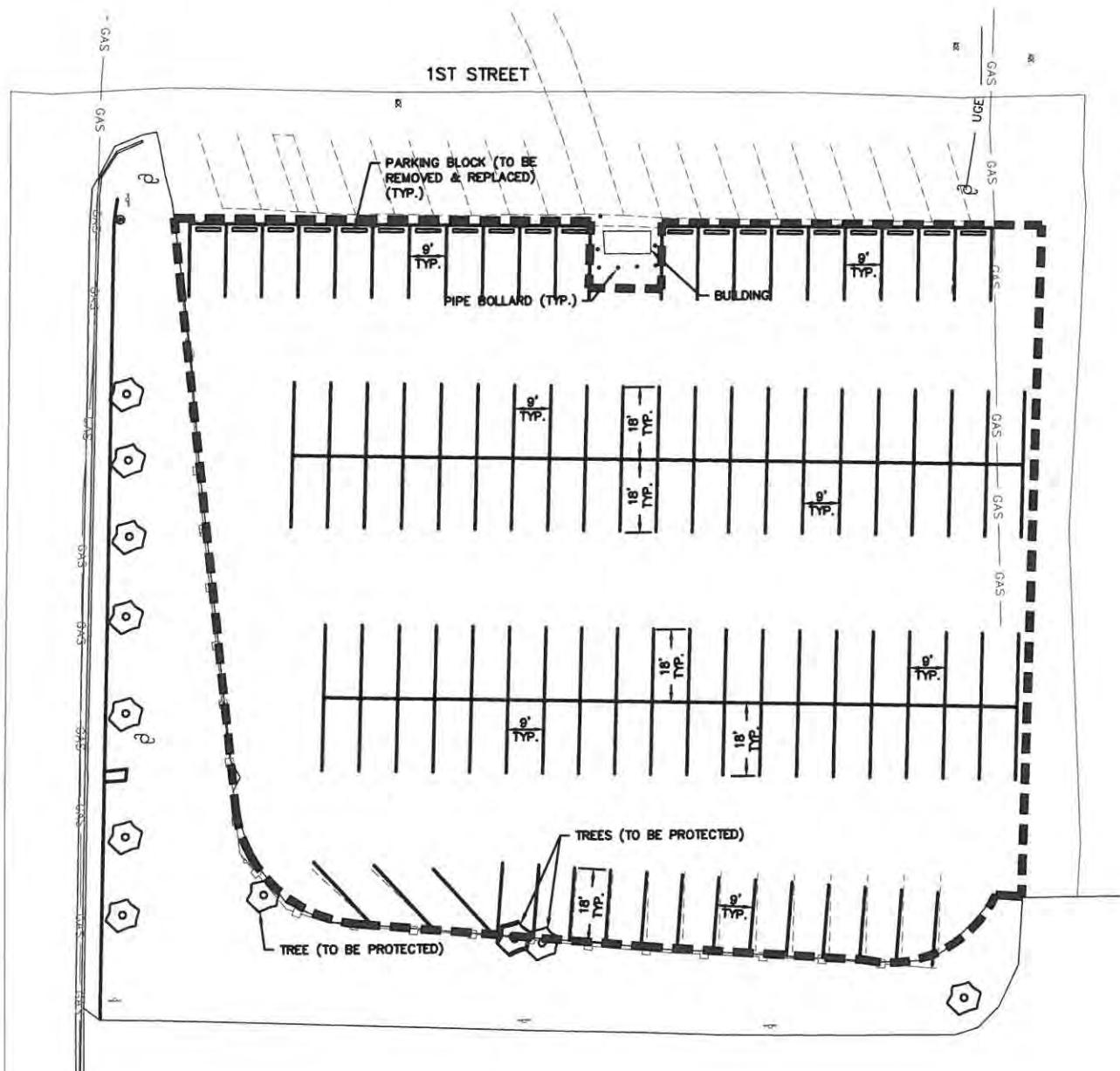
C-102

NOTES:

- APPROXIMATE 12" ASPHALT OVERLAY AREA IS 3960 SY AND IS NOTED FOR CONTRACTOR'S USE ONLY.  
OVERLAY AREA SHALL CONFORM TO THE OUTLINE AS SHOWN ON THE PLAN.
- APPROXIMATE STRIPING QUANTITY IS SHOWN FOR CONTRACTOR'S USE ONLY.  
4" WHITE PAINT MARKINGS = 2343 FT

LEGEND

- — — — LIMITS OF SURFACE TREATMENT
- — — — 4" WHITE PAVEMENT MARKING LINE





# HR

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DATE 12/31/17  
LICENSE EXPIRES

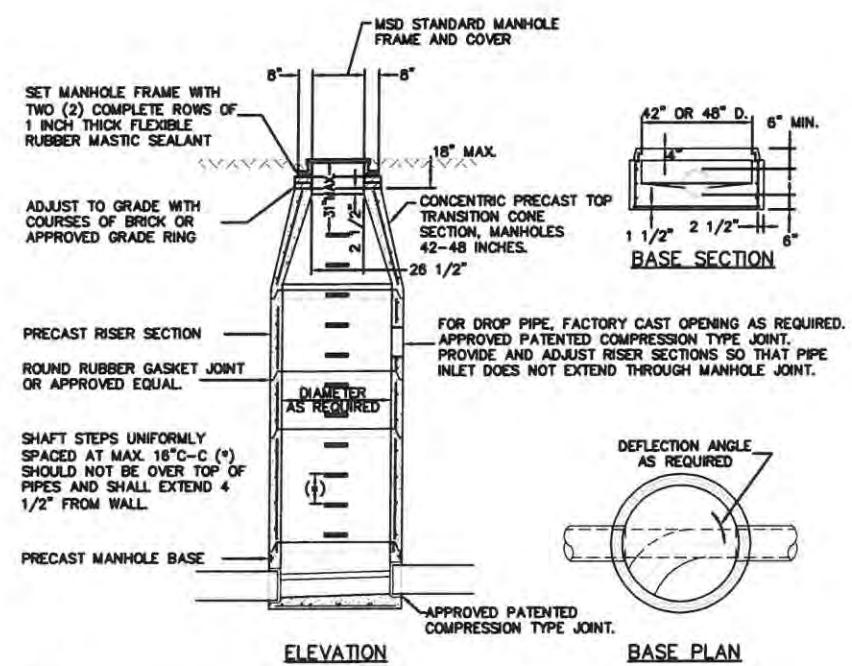
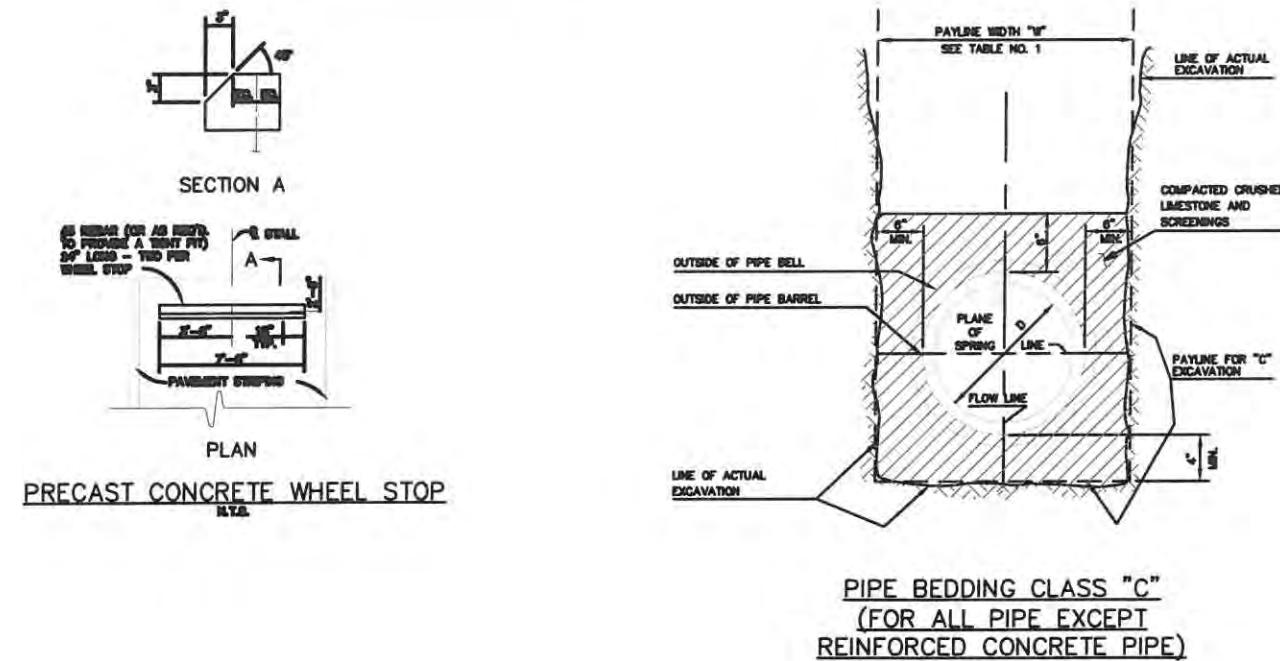
PARKING LOT IMPROVEMENTS - PHASE I  
JEFFERSON COUNTY DEPARTMENT OF PUBLIC WORKS  
COUNTY COURTHOUSE  
725 MAPLE STREET, P.O. BOX 100  
HILLSBORO, MO 63050

| MARK | DATE | DESCRIPTION |
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DATE: 5/28/15  
PROJECT NO: 845-1175  
DESIGN: DRAWN: CHECK:  
KJW JMA MEB

MISCELLANEOUS  
DETAILS

C-501



NOTES:

- 1) THE MINIMUM INSIDE DIAMETER FOR THE BASE AND RISER SECTIONS SHALL BE 42 INCHES FOR 8 INCH DIAMETER SANITARY SEWERS AND ALL STORM SEWERS. THE MINIMUM INSIDE DIAMETER FOR SANITARY SEWERS LARGER THAN 8 INCH DIAMETER IS 48 INCHES. MANHOLE SHALL MEET ASTM C-478 REQUIREMENTS.
- 2) FLOWLINE ELEVATION OF INCOMING PIPES SHALL BE 1 INCH HIGHER THAN THAT OF OUTGOING PIPE.
- 3) PIPE SIZES LARGER THAN 24 INCH DIAMETER MAY REQUIRE MANHOLE DIAMETERS OF 60 INCH, 72 INCH OR 96 INCH AS DETERMINED BY OUTSIDE DIAMETERS AND ORIENTATIONS OF CONNECTING PIPES.
- 4) ECCENTRIC CONES SHALL BE USED ON DIAMETERS 60 INCH AND LARGER. STEPS SHALL EXTEND DOWN VERTICAL WALL OF CONE.
- 5) PRIOR TO FABRICATION, SHOP DRAWINGS SHALL BE SUBMITTED TO THE DISTRICT FOR APPROVAL OF MANHOLES ON PIPE DIAMETERS LARGER THAN 24 INCH AND ALSO FOR THOSE STRUCTURES WITH A DROP PIPE CONNECTION.

# HR

HURST-ROSCHÉ  
ENGINEERS INC.

PROFESSIONAL ENGINEERS NUMBER 2007

3675 W. OUTER ROAD  
SUITE 101  
ARNOLD, MO 63010  
PH: 636.333.3351

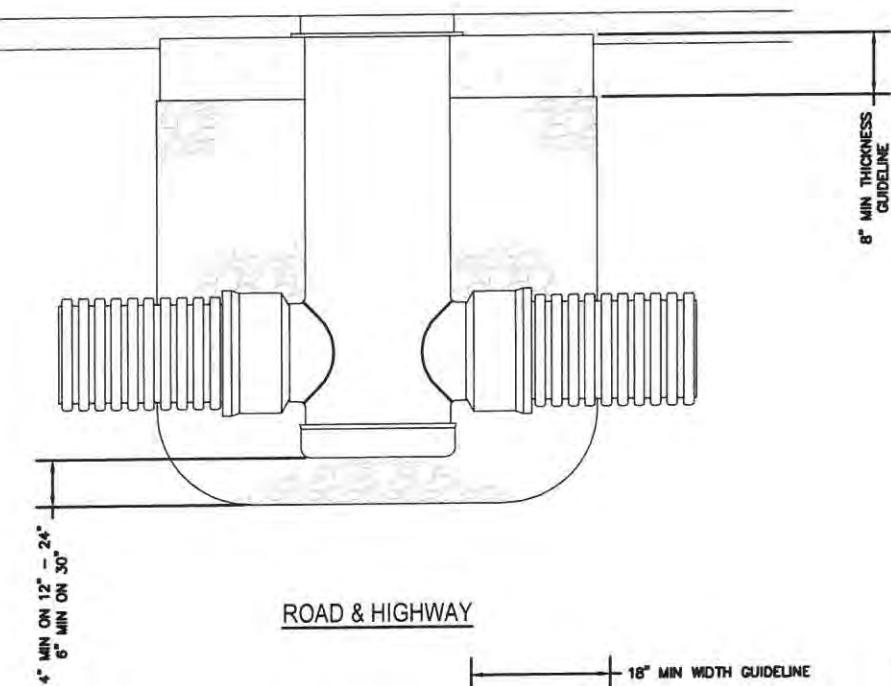
HILLSBORO, IL  
EAST ST. LOUIS, IL  
MARION, IL  
SPRINGFIELD, IL  
NEOSHO, MO



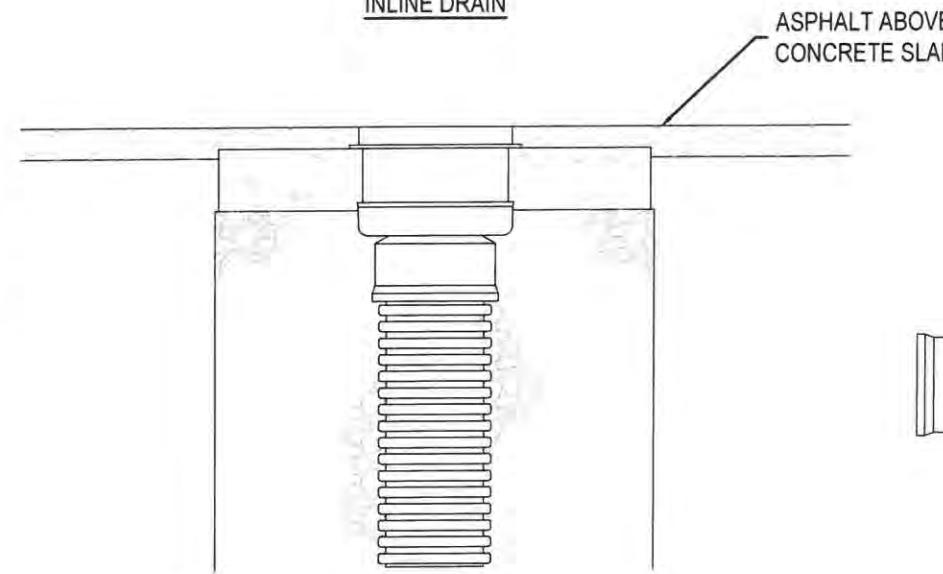
*M.E. Bloom*  
SIGNATURE 1/22/16  
DATE 12/31/17  
LICENSE EXPIRES

**PARKING LOT IMPROVEMENTS - PHASE I**  
**JEFFERSON COUNTY DEPARTMENT OF PUBLIC WORKS**  
**COUNTY COURTHOUSE**  
**725 MAPLE STREET, P.O. BOX 100**  
**HILLSBORO, MO 63050**

DRAIN BASIN

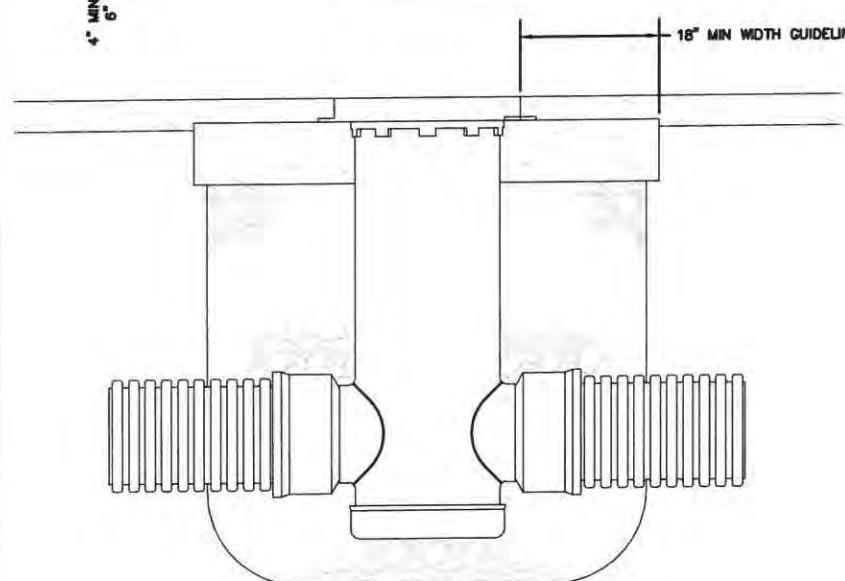


INLINE DRAIN



ASPHALT ABOVE  
CONCRETE SLAB

ROAD & HIGHWAY



| STRUCTURE SIZE | H-20 GRATE OPTIONS |          |       |         |         |
|----------------|--------------------|----------|-------|---------|---------|
| 12"            | N/A                | STANDARD | SOLID | 2X2 R&H | N/A     |
| 15"            | N/A                | STANDARD | SOLID | 2X2 R&H | N/A     |
| 18"            | N/A                | STANDARD | SOLID | 2X2 R&H | 2X3 R&H |
| 24"            | N/A                | STANDARD | SOLID | 2X2 R&H | 2X3 R&H |
| 30"            | PEDESTRIAN         | STANDARD | SOLID | 2X2 R&H | 2X3 R&H |

1 - THE BACKFILL MATERIAL SHALL BE 1" CLEAN STONE MEETING ASTM REQUIREMENTS.  
2 - TRAFFIC LOADS: CONCRETE SLAB DIMENSIONS ARE FOR GUIDELINE PURPOSES ONLY. ACTUAL CONCRETE SLAB MUST BE DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS, TRAFFIC LOADING, & OTHER APPLICABLE DESIGN FACTORS.

## ASPHALT INSTALLATION

1 - PERFORATIONS SHOULD NOT BE ON OR WITHIN 1" OF ADAPTERS.  
2 - HOLES SHOULD BE STAGGERED EVERY OTHER ROW, AS SHOWN.  
3 - TO PREVENT BLOCKAGE OF PERFORATIONS, BASIN SHOULD BE WRAPPED IN AN ENGINEER APPROVED GEO-TEXTILE FABRIC.

| STRUCTURE SIZE | A° ANGLE BETWEEN HOLES | B NUMBER OF HOLES |
|----------------|------------------------|-------------------|
| 8"             | 90°                    | 4                 |
| 10"            | 90°                    | 4                 |
| 12"            | 60°                    | 6                 |
| 15"            | 60°                    | 6                 |
| 18"            | 45°                    | 8                 |
| 24"            | 45°                    | 8                 |
| 30"            | 36°                    | 10                |

## PERFORATION SCHEDULE

PERFORATED  
MANHOLE  
DETAIL

C-502

# JEFFERSON COUNTY DEPARTMENT OF PUBLIC WORKS

## COUNTY COURTHOUSE

### PARKING LOT IMPROVEMENTS - PHASE II

300 FIRST STREET

HILLSBORO, JEFFERSON COUNTY, MISSOURI

#### INDEX OF SHEETS

- G-001 COVER SHEET
- C-001 GENERAL NOTES
- C-101 PAVEMENT PATCHING PLAN
- C-102 STRIPING PLAN
- C-103 STORM SEWER PLAN & PROFILE
- C-501 MISCELLANEOUS DETAILS

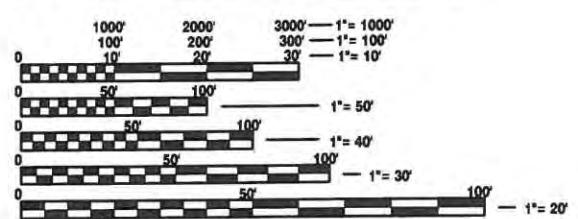


**LOCATION OF  
IMPROVEMENTS**



0' 250' 500'  
APPROXIMATE SCALE

#### SCALES USED FOR VARIOUS PLAN SHEETS



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD  
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT  
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS  
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

MISSOURI ONE CALL  
MISSOURI ONE CALL SYSTEM, INC.  
1-800-344-7483

#### LOCATION MAP

NORTH 1/2 OF SECTION 3  
TOWNSHIP 40 NORTH  
RANGE 4 EAST  
OF THE 3RD P.M.  
CENTRAL TOWNSHIP



LOCATION OF SECTION INDICATED THUS: -

PARKING LOT IMPROVEMENTS - PHASE II  
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COUNTY COURTHOUSE  
725 MAPLE STREET, P.O. BOX 100  
HILLSBORO, MO 63010

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DESIGN: KJW DRAWN: JMA CHECK: MEB

COVER SHEET

G-001

**HR**  
HURST-ROSCHE  
ENGINEERS INC.  
PROFESSIONAL ENGINEERS  
3675 W. OUTER ROAD  
SUITE 101  
ARNOLD, MO 63010  
PH: 636.333.3351

HILLSBORO, IL  
EAST ST. LOUIS, IL  
MARION, IL  
SPRINGFIELD, IL  
NEOSHO, MO



## GENERAL NOTES:

- EXISTING SITE IMPROVEMENTS DISTURBED OUTSIDE THE DESIGNATED CONSTRUCTION AREAS ARE TO BE REPLACED WITH EQUAL OR BETTER CONSTRUCTION AT THE EXPENSE OF THE CONTRACTOR. EVERY EFFORT SHALL BE MADE TO MINIMIZE SUCH DISTURBANCES. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGE TO EXISTING CONSTRUCTION AND UTILITIES TO REMAIN AND SHALL REPAIR DAMAGE CAUSED BY THE WORK AT NO ADDITIONAL COST TO THE OWNER.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN DRAINAGE FLOWS AT ALL TIMES DURING THE PERFORMANCE OF THE WORK. DAMAGE RESULTING FROM IMPROPER MAINTENANCE OF DRAINAGE SHALL BE IMMEDIATELY REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. COST OF MAINTAINING FLOWS IS INCIDENTAL TO THE CONTRACT.
- THE CONTRACTOR SHALL TAKE NOTE OF ALL EXISTING CONDITIONS AND BE PREPARED TO MOVE OR DISPOSE OF OBJECTS OR MATERIALS WITHIN THE LIMITS OF THE PROJECT. SUCH WORK SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE.
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING AND NEW DIMENSIONS WITH FIELD CONDITIONS PRIOR TO BIDDING, FABRICATION AND CONSTRUCTION AND MAKE MINOR ADJUSTMENTS AS NECESSARY AND NOTIFY THE ENGINEER OF ANY CONDITIONS THAT MAY AFFECT THE OUTCOME OF THE WORK.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER, ENGINEER, AND OTHER TRADES THROUGHOUT THE PROJECT.
- CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AND SIGNAGE IN ACCORDANCE WITH CONSTRUCTION STANDARDS AND SPECIFICATIONS OF ALL LOCAL GOVERNING AGENCIES. THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND MODOT AS DETERMINED BY THE ENGINEER. ACCESS TO PROPERTIES AND ENTRANCES SHALL BE PROVIDED BY THE CONTRACTOR AT ALL TIMES AND COORDINATED WITH THE OWNER INCLUDING ANY INTERRUPTION OF ACCESS TO THE SITE.
- COHESIVE FILL UNDER BUILDINGS, STEPS, PAVED AREAS, UTILITY LINES AND TRENCH BACKFILLS SHALL BE COMPACTION TO A MINIMUM 95% OF MAXIMUM DRY DENSITY. WELL GRADED AGGREGATE FILL UNDER SLABS ON GRADE, PAVED AREAS, UTILITY LINES AND TRENCH BACKFILLS SHALL BE COMPACTION TO A MINIMUM 95% OF MAXIMUM DRY DENSITY. WELL GRADED AGGREGATE FILL UNDER FOOTINGS SHALL BE COMPACTION TO A MINIMUM 100% OF MAXIMUM DRY DENSITY. UNDER LAWN OR UNPAVED AREAS, COMPACT SOIL TO A MINIMUM 85% MAXIMUM DRY DENSITY. COMPACTION SHALL BE IN ACCORDANCE WITH ASTM D-698 WITH 6" MAXIMUM COMPACTED LIFTS, UNLESS OTHERWISE SPECIFIED. CONTRACTOR SHALL ADJUST AFOREMENTIONED COMPACTION INFORMATION BASED ON GEOTECHNICAL REPORT AND PROJECT SPECIFICATIONS IF SAID GEOTECHNICAL REPORT AND PROJECT SPECIFICATIONS DIFFERS FROM AFOREMENTIONED COMPACTION INFORMATION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION PRIOR TO ANY WORK AND MAINTENANCE THROUGHOUT THE PROJECT OF ALL NECESSARY SEDIMENT AND EROSION CONTROL MEASURES AND MODEL BEST MANAGEMENT PRACTICES (BMP) FOR LAND DISTURBANCE. THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING EROSION OF THE SOIL EXPOSED BY DISTURBANCE DUE TO HIS/HER OPERATIONS. THE CONTRACTOR SHALL CONSTRUCT SAID EROSION CONTROL MEASURES IN ACCORDANCE WITH THE CONSTRUCTION STANDARDS AND SPECIFICATIONS OF MODNR AND MODOT, PROJECT SPECIFICATIONS AND AS DIRECTED ON THE PLANS. ADDITIONAL MEASURES MAY BE REQUIRED AS DIRECTED BY ALL LOCAL GOVERNING AGENCIES, MODNR, MODOT AND/OR ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL EROSION CONTROL MEASURES AND REPAIR OF ANY ERODED AREAS AFTER PROJECT ACCEPTANCE AND VEGETATION IN ALL LAWN DISTURBED AREAS HAS BEEN ESTABLISHED. NO ADDITIONAL COMPENSATION IS ALLOWED FOR TEMPORARY EROSION CONTROL.
- ALL CONSTRUCTION AND MATERIALS USED SHALL CONFORM TO THE CONSTRUCTION STANDARDS AND SPECIFICATIONS OF ALL LOCAL GOVERNING AGENCIES, JEFFERSON COUNTY, MODNR, AWWA, ASTM, MODOT, THE NATIONAL MUTCD, AND THE CURRENT APPROVED "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES" (ADAAG).
- NO WORK SHALL OCCUR ON THE SITE UNTIL ALL NECESSARY PERMITS ARE SECURED WITH ALL LOCAL GOVERNING AGENCIES. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED AND FUNCTIONING BEFORE ANY PERMIT WILL BE ISSUED. PERMITS AND LICENSES NECESSARY FOR THE PROCESSION OF WORK SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR.
- ALL DISTURBED AREAS AND LAWN AREA, EXCLUDING PAVED AND BUILDING AREAS, SHALL BE GRADED, SEEDED, FERTILIZED, MULCHED AND STRAWED WITHIN 14 DAYS FROM THE COMPLETION OF GRAVING OPERATIONS OR SUSPENSION OF WORK AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
- MANHOLES AND STORM STRUCTURES SHALL BE CONSTRUCTED OF CAST-IN-PLACE OR PRE-CAST CONCRETE. SHOP DRAWING SHALL BE REQUIRED FOR ALL NONSTANDARD CONCRETE STRUCTURES.
- ALL ELEVATIONS SHOWN ARE REFERENCED TO THE CONTROL POINTS SHOWN HEREIN, EXCEPT AS NOTED ON THE PLANS. PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
- HOT MIX BITUMINOUS MATERIALS SHALL NOT BE PLACED ON EXISTING BITUMINOUS/CONCRETE SURFACES OR ON AGGREGATE BASES WITHOUT THE APPLICATION OF BITUMINOUS MATERIALS PRIME COAT.
- ALL TEMPORARY AGGREGATE PLACED BY THE CONTRACTOR SHALL BE REMOVED, GRADED, SEEDED, FERTILIZED, MULCHED AND STRAWED AT THE COMPLETION OF THE CONTRACT AS DIRECTED BY THE ENGINEER.
- STORE TOPSOIL ONSITE AT AN APPROVED LOCATION AS DIRECTED BY THE ENGINEER AND OWNER. EXCESS TOPSOIL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AS NECESSARY AT NO ADDITIONAL COST TO THE OWNER.
- ANY PROPERTY CORNERS OR OTHER PERMANENT SURVEY CONTROL MONUMENTS DISTURBED BY CONSTRUCTION SHALL BE VERIFIED AND/OR RESET AT THE CONCLUSION OF THE PROJECT CONSTRUCTION BY A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF MISSOURI AND EMPLOYED BY THE CONTRACTOR. WRITTEN VERIFICATION SHALL BE PROVIDED TO THE OWNER, THROUGH THE ENGINEER, THAT ALL SAID EXISTING PROPERTY CORNERS AND/OR PERMANENT SURVEY CONTROL MONUMENTS SHOWN IN THE CONSTRUCTION PLANS HAVE BEEN PROTECTED AND/OR RESET.
- RIGHT-OF-WAYS, PROPERTY LINES AND TOPOGRAPHY SHOWN HEREON HAVE BEEN TAKEN FORM THE BEST AVAILABLE RECORDS AND MUST BE VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION.
- PROPERTY LINES ARE BASED ON RECORD INFORMATION, AS SHOWN, (I.E., SUBDIVISION PLATS, DEEDS, ETC.) OBTAINED FROM THE RECORDER'S OFFICE, JEFFERSON COUNTY, MISSOURI.
- THE CONTRACTOR WILL COORDINATE ANY INTERRUPTION OF PARCEL OWNERS ACCESS WITH THEIR PARCEL (I.E. INSTALLATION OF WATERMAIN ACROSS DRIVEWAYS, ETC.) WITH THAT RESPECTIVE PARCEL OWNER PRIOR TO CONSTRUCTION AND INSTALLATION OF THE WATERMAIN.
- PRESERVE EXISTING TREES, WOODLANDS AND UNDERSTORY OUTSIDE THE LIMITS OF CONSTRUCTION. CONTRACTOR SHALL BE VERY CONSCIENCE ABOUT ADJACENT TREE REMOVAL TO CONSTRUCTION AREAS. CONTRACTOR SHALL ONLY REMOVE THE MINIMUM AMOUNT OF NECESSARY TREES TO COMPLETE THIS PROJECT. CONTRACTOR SHALL COORDINATE TREE REMOVAL WITH THE OWNER TO DETERMINE THE TREES THE OWNER WOULD LIKE REMOVED AND THE TREES THE OWNER WOULD LIKE TO PRESERVE.
- EXISTING FENCING THAT IS NECESSARY TO BE REMOVED AND REPLACED TO INSTALL PROPOSED IMPROVEMENTS SHALL BE REMOVED AND REPLACED TO THE SAME LOCATION PRIOR TO REMOVAL. ONCE THE EXISTING FENCING IS REMOVED DURING CONSTRUCTION THE CONTRACTOR SHALL INSTALL TEMPORARY INTERIM FENCING AND SAID TEMPORARY FENCING SHALL BE MAINTAINED AND REMAIN IN PLACE UNTIL THE EXISTING FENCING IS TO BE REPLACED AS CLOSE TO ITS ORIGINAL CONDITION AS POSSIBLE. TEMPORARY FENCING TO BE STRUCTURALLY SOUND AND CAPABLE OF CONFINING CHILDREN AND FAMILY PETS TO THE FENCED YARD AREA, CONTRACTOR MAY REUSE EXISTING FENCING MATERIALS SO LONG AS THE MATERIALS ARE IN GOOD, STABLE, AESTHETICALLY PLEASING CONDITION, IF NOT, THE EXISTING FENCING MATERIALS SHALL BE REPLACED WITH NEW MATERIALS OF SAME TYPE OF CONSTRUCTION, SIZE AND DIMENSIONS, EXISTING FENCING MATERIALS TO BE COORDINATED WITH AND AGREED UPON BY THE DISTRICT FOR REUSE ON THE PROJECT.

## SITE GRADING NOTES:

- CONTRACTOR SHALL NOTIFY THE OWNER AND ALL LOCAL GOVERNING AGENCIES 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY WORK.
- CONTRACTOR TO PROVIDE ADEQUATE OFF-STREET PARKING FOR CONSTRUCTION EMPLOYEES. PARKING ON NON-SURFACED AREAS IS PROHIBITED IN ORDER TO ELIMINATE THE CONDITION WHEREBY MUD FROM CONSTRUCTION AND EMPLOYEE VEHICLES IS TRACKED ONTO THE PAVEMENT CAUSING HAZARDOUS ROADWAY AND DRIVING CONDITIONS.
- CONTRACTOR SHALL KEEP ALL PAVEMENT SURFACES CLEAR OF MUD AND DEBRIS. ALL PAVEMENT SURFACES USED FOR CONSTRUCTION ACCESS THERETO SHALL BE CLEANED THROUGHOUT THE DAY.
- EROSION AND SILTATION CONTROL SHALL BE INSTALLED PRIOR TO ANY WORK AND BE MAINTAINED THROUGHOUT THE PROJECT TO PREVENT DAMAGE OF OFFSITE PROPERTIES UNTIL ACCEPTANCE OF THE WORK BY THE OWNER AND/OR CONTROLLING REGULATORY AGENCY. PAVEMENT SURFACE HAS BEEN INSTALLED AND ADEQUATE VEGETATIVE GROWTH IN ALL DISTURBED AREAS HAS BEEN ESTABLISHED AND INSURES NO FURTHER EROSION OF THE SOIL. ADDITIONAL SILTATION CONTROL MAY BE REQUIRED AS DEEMED NECESSARY BY ALL LOCAL GOVERNING AGENCIES, MODNR, MODOT, ENGINEER AND/OR OWNER.
- WHERE NATURAL VEGETATION IS REMOVED DURING GRADING, VEGETATION SHALL BE REESTABLISHED IN SUCH A DENSITY AS TO PREVENT EROSION.
- WHEN WORK OPERATIONS ARE COMPLETED OR SUSPENDED FOR MORE THAN 14 DAYS, ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO RETAIN SOIL MATERIALS ONSITE. PROTECTIVE MEASURES MAY BE REQUIRED BY ALL LOCAL GOVERNING AGENCIES, MODNR AND/OR MODOT SUCH AS PERMANENT SEEDING, PERIODIC WETTING, MULCHING, OR OTHER SUITABLE MEANS.

- IF CUT AND FILL OPERATIONS OCCUR DURING A SEASON NOT FAVORABLE FOR IMMEDIATE ESTABLISHMENT OF PERMANENT GROUND COVER, A FAST GERMINATING ANNUAL SUCH AS RYE GRASSES OR SUDAN GRASSES SHALL BE UTILIZED TO RETARD EROSION, IF ADEQUATE STORMWATER DETENTION AND EROSION CONTROL DEVICES HAVE NOT BEEN ESTABLISHED.

- ALL FINISHED GRADES (AREAS NOT TO BE DISTURBED BY FUTURE IMPROVEMENT) IN EXCESS OF 3:1 (H:V) SLOPES SHALL BE MULCHED BY CONSTRUCTING EROSION CONTROL BLANKET PER PROJECT SPECIFICATIONS AND MODNR STANDARDS AND SPECIFICATIONS. THE EROSION CONTROL BLANKET SHALL BE EXCELSIOR BLANKET.

- NO EXCAVATION SHALL BE MADE SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY ADJOINING PROPERTY OR ANY PUBLIC OR PRIVATE STREET WITHOUT SUPPORTING AND PROTECTING SUCH PROPERTY OR PUBLIC OR PRIVATE STREET FROM SETTLING, CRACKING OR OTHER DAMAGE.

- STORM WATER STRUCTURES, PIPES, OUTLETS AND CHANNELS SHALL BE PROTECTED BY SILT BARRIERS AND KEPT FREE OF WASTE AND SILT AT ALL TIMES PRIOR TO FINAL SURFACE STABILIZATION AND/OR PAVING. INTERIM STORM WATER DRAINAGE CONTROL IN THE FORM OF SILTATION CONTROL MEASURES IS REQUIRED.

- SILTATION FENCES SHALL BE INSPECTED PERIODICALLY AND AFTER EVERY STORM EVENT FOR DAMAGE AND THE AMOUNT OF SEDIMENT THAT HAS ACCUMULATED. REMOVAL OF SEDIMENT WILL BE REQUIRED WHEN IT REACHES 1/2 THE HEIGHT OF THE SILTATION FENCE OR 12", WHICHEVER IS LESS.

- ALL TRASH AND DEBRIS ONSITE, EITHER EXISTING OR FROM CONSTRUCTION, MUST BE REMOVED AND PROPERLY DISPOSED OF OFFSITE. DEBRIS AND FOUNDATION MATERIAL FROM ANY EXISTING ONSITE BUILDING OR STRUCTURE THAT IS SCHEDULED TO BE REMOVED FOR THIS PROJECT MUST BE PROPERLY DISPOSED OF OFFSITE. EXCESS, SURPLUS, UNUSABLE, UNSTABLE AND/OR UNSUITABLE MATERIALS RESULTING FROM CONSTRUCTION OF THIS PROJECT, INCLUDING THOSE RESULTING FROM REMOVAL OF EXISTING SIDEWALKS, PAVEMENTS, BUILDINGS AND/OR STRUCTURES, SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR AT HIS/HER OWN EXPENSE IN A LEGAL MANNER, OUTSIDE THE SUBJECT PROPERTY IN SUCH A MANNER THAT PUBLIC OR PRIVATE PROPERTY WILL NOT BE DAMAGED OR ENDANGERED. COORDINATE WITH THE OWNER.

- ALL EXCAVATIONS, GRAVING OR FILLING SHALL HAVE A FINISHED GRADE NOT TO EXCEED A 3:1 SLOPE (33%), UNLESS SPECIFICALLY APPROVED OTHERWISE.

- CONTRACTOR TO INSTALL ALL PROPOSED IMPROVEMENTS TO MATCH ALL EXISTING GRADES, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL GRADE AND PREPARE ALL SUBGRADES TO WITHIN 0.1 FEET, MORE OR LESS, OF PLAN GRADE.

- CONTRACTOR TO PROVIDE POSITIVE DRAINAGE AWAY FROM ALL EXISTING AND PROPOSED BUILDINGS AT A MINIMUM SLOPE OF 2% UNLESS OTHERWISE NOTED. ALL ONSITE STORMWATER FLOWS SHALL BE DIRECTED AND POSITIVELY DRAINED TO PROPOSED AND/OR EXISTING STORM FACILITIES, STRUCTURES, SWALES OR OFFSITE. STORMWATER SHALL BE DISCHARGED AT AN ADEQUATE NATURAL DISCHARGE POINT. SINKHOLES ARE NOT ADEQUATE NATURAL DISCHARGE POINTS. PONDING OF STORMWATER WILL NOT BE PERMITTED DURING OR AFTER CONSTRUCTION.

- ALL PAVEMENT (CONCRETE AND ASPHALT), SIDEWALK, HANDICAP RAMP, AND ALL APPURTENANCES CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE CONSTRUCTION STANDARDS AND SPECIFICATIONS OF ALL LOCAL GOVERNING AGENCIES, MODOT, MODNR, AND THE CURRENT APPROVED "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES" (ADAAG).

- CONTRACTOR TO HAVE A SOILS ENGINEER VERIFY THAT ALL COMPRESSIBLE MATERIAL HAS BEEN REMOVED PRIOR TO PLACEMENT OF FILL, AND THAT ALL FILL UNDER SANITARY AND STORM SEWER AND OTHER UTILITY LINES CONSTRUCTED ABOVE GRADE HAS BEEN COMPACTION TO A MINIMUM 95% OF MAXIMUM DRY DENSITY DETERMINED BY ASTM D-698. FILL IS TO BE PLACED IN MAXIMUM 6" LIFTS. TESTS SHALL BE TAKEN AT A MAXIMUM OF 50' INTERVALS ALONG THE ROUTE OF THE PIPE IN FILL AREAS. TEST SHALL BE TAKEN AT 2' INTERVALS VERTICALLY STARTING AT THE BOTTOM OF THE FILL AND CONTINUING THROUGH THE FILL TO THE TOP OF THE PIPE. TESTS SHALL BE TAKEN AT 6' INTERVALS HORIZONTALLY ON BOTH SIDES OF THE PIPE FOR A DISTANCE EQUAL TO THE DEPTH OF THE FILL FROM THE TOP OF PIPE TO VIRGIN SOIL.

- CONTRACTOR TO REMOVE AND DISPOSE OF ALL VEGETATION AFFECTING CONSTRUCTION WITHIN THE CONSTRUCTION LIMITS SHOWN ON THE PLANS IN ACCORDANCE WITH MODOT AND MODNR STANDARDS AND SPECIFICATIONS, UNLESS OTHERWISE NOTED. ALL REMOVED VEGETATION SHALL BE DISPOSED OF WITHIN 7 DAYS OF REMOVAL.

- PROPOSED CONTOURS AND SPOT ELEVATIONS GENERALLY REFLECT ULTIMATE FINISH GRADE. FOR EARTH GRADES, THE FULL DEPTH OF PAVEMENT MUST BE SUBTRACTED FROM THE ELEVATIONS SHOWN. SEE PAVEMENT SECTION DETAILS AS APPLICABLE FOR SIDEWALKS AND PAVEMENT AREAS.

- THE REMOVAL OF ALL UNUSABLE, UNSTABLE AND/OR UNSUITABLE MATERIALS IN ALL CUT AND FILL AREAS AND THEIR REPLACEMENT WITH SATISFACTORY MATERIAL, WHERE REQUIRED, SHALL BE INCIDENTAL TO THE CONTRACT.

- ALL TOPSOIL, VEGETATION, ROOTS, AND ANY SOFT SOILS SHALL BE STRIPPED FROM SIDEWALK, PAVEMENT AND BUILDING AREAS. SITE SHALL THEN BE PROOF-ROLLED, SCARIFIED AND PROCESSED TO AN OPTIMUM MOISTURE CONTENT TO ATTAIN REQUIRED COMPACTION DENSITY OF SUBGRADE SOILS. ALL SUBGRADE SOILS SHALL BE COMPACTION TO A MINIMUM 95% OF MAXIMUM DRY DENSITY DETERMINED BY ASTM D-698, FOR A DEPTH OF AT LEAST 12 INCHES BELOW THE SURFACE FOR PREPARED SUBGRADE.

- CONTRACTOR IS TO ARRANGE FOR DENSITY TESTING PRIOR TO CONSTRUCTION AND DURING CONSTRUCTION TO VERIFY THAT THE COMPACTION MEETS THE SPECIFICATIONS AND THAT THE SUBGRADE IS WITHOUT SOFT SPOTS. COPIES OF THE TESTING SHALL BE SUPPLIED TO THE OWNER AND ENGINEER/ARCHITECT.

- CONTRACTOR SHALL COORDINATE WITH AN ENGINEERING OR MATERIALS TESTING FIRM FOR TESTING FILL MATERIALS, PAVEMENT COMPONENTS, AND OTHER CONSTRUCTION MATERIALS. CONTRACTOR SHALL PROVIDE AT LEAST 24 HOURS ADVANCED NOTICE FOR TESTING PERSONNEL. ALL REQUIRED TESTING SERVICES SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS. THE MISSOURI ONE CALL SYSTEM NUMBER IS 800-344-7483. A MINIMUM OF THREE WORKING DAYS ADVANCE NOTICE IS REQUIRED.
- STONE FOR HEAVY STONE REVETMENT BLANKET SHALL BE SOUND, DURABLE AND FREE FROM CRACKS AND OTHER STRUCTURAL DEFECTS THAT WOULD CAUSE THE REVETMENT TO DETERIORATE. THE STONE BLANKET SHALL BE AT LEAST 24 INCHES IN THICKNESS PERPENDICULAR TO THE BOTTOM OF THE DRAINAGE DITCH/SWALE. STONE SHOULD BE BLOCKY IN SHAPE RATHER THAN ELONGATED, MORE NEARLY CUBICAL IN SHAPE, "NESTED" TOGETHER TO PROVIDE MORE RESISTANT TO MOVEMENT. THE STONE SHALL BE PREDOMINANTLY ANGULAR IN SHAPE. APRON LINING MUST EXTEND INTO A STABLE CHANNEL. HEAVY STONE REVETMENT SHALL BE UNDERLAIN WITH A MIRAF 140N FILTER FABRIC AND PLACED ON A PREPARED SUBGRADE. ALL ENDS OF FILTER FABRIC TO BE ANCHORED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

## UTILITY NOTES:

- UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED AND SHOWN FROM AVAILABLE INFORMATION AND RECORDS. THEREFORE, THEIR LOCATION AND RELATIONSHIP TO NEW PROPOSED WORK MUST BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE LOCATION OF UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PROVIDED PRIOR TO ANY WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL LOCAL GOVERNING AGENCIES AND UTILITY COMPANIES PRIOR TO ANY CONSTRUCTION TO DETERMINE THEIR UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES EXACT LOCATION AND THE EXISTENCE OF ANY NOT SHOWN. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES AND THE OWNER AS TO THE RELOCATION OR REMOVAL OF ANY UTILITIES SHOWN OR NOT SHOWN. THE ENGINEER AND THE OWNER DO NOT WARRANT OR GUARANTEE THE COMPLETENESS OR THE CORRECTNESS OF THE INFORMATION GIVEN.
- UTILITY LOCATIONS AND ELEVATIONS ARE APPROXIMATE. IT IS THE CONTRACTOR RESPONSIBILITY TO FIELD VERIFY ALL UTILITIES.
- ALL TRENCHES UNDER AREAS TO BE PAVED AND UNDER EXISTING PAVING SHALL BE FULL HEIGHT GRANULARLY FILLED WITH COMPACTED SELECT GRANULAR BACKFILL. BACKFILL SHALL BE PLACED IN ACCORDANCE WITH THE CONSTRUCTION STANDARDS AND SPECIFICATIONS OF MODNR AND MODOT, PROJECT SPECIFICATIONS AND AS DIRECTED ON THE PLANS.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL OSHA SAFETY COMPLIANCES WHEN TRENCHING AND LAYING UTILITIES.
- EXISTING ABOVE AND BELOW GROUND UTILITIES TO BE PROTECTED AND USED IN PLACE, UNLESS OTHERWISE SPECIFIED. EXISTING UTILITIES AND/OR STRUCTURES AFFECTED BY CONSTRUCTION, EITHER SHOWN OR NOT SHOWN ON THE PLANS, SHALL BE ADJUSTED TO GRADE.
- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF CONSTRUCTION AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- CONTRACTOR WILL COORDINATE ANY INTERRUPTION OF ANY SERVICE LINE WITH THE LOCAL GOVERNING UTILITY AGENCIES AND THE OWNER TO LIMIT UTILITY OUTAGE TO EXISTING CUSTOMERS. THE ACTUAL LOCATION OF THE POINT OF CONNECTION IS APPROXIMATE AND SHALL BE FIELD LOCATED BY THE CONTRACTOR.
- CONTRACTOR TO INSTALL ALL UTILITIES AND APPURTENANCES AS REQUIRED AND IN ACCORDANCE WITH ALL LOCAL GOVERNING UTILITY AGENCIES, MUNICIPALITIES AND STATE AND FEDERAL REQUIREMENTS, INCLUDING, BUT NOT LIMITED TO, VALVES, METERS, FIRE HYDRANTS, FLUSH HYDRANTS, FITTINGS, THRUST BLOCKS, BLOWOFFS, VALVE BOXES, VALVE BOX LIDS, METER PIT LIDS, METER PITS, PIPE BEDDING, ETC.
- CONTRACTOR TO LOCATE EXISTING EASEMENT AND/OR RIGHT-OF-WAY LINES AND INSTALL PROPOSED UTILITY IMPROVEMENTS, WITHIN THE EXISTING EASEMENT AND/OR RIGHT-OF-WAY LIMITS AND/OR ON DISTRICT PROPERTY AS SHOWN ON PLANS.
- THE CONTRACTOR SHALL LIMIT THE AMOUNT OF TRENCH TO BE OPEN AT ANY GIVEN TIME TO A MAXIMUM OF FORTY (40) LINEAR FEET AS MEASURED ALONG THE CENTERLINE OF THE PROPOSED PIPE. ALL OPEN TRENCHES SHALL BE BACKFILLED AT THE END OF EACH DAY'S WORK AND IMMEDIATE MEASURES TAKEN TO STABILIZE THE DISTURBED AREA.



## UNDERGROUND UTILITY NOTE

ANY UNDERGROUND FACILITIES, STRUCTURES, OR UTILITIES THAT HAVE BEEN PLOTTED AND SHOWN FROM AVAILABLE INFORMATION AND RECORDS. THEREFORE, THEIR LOCATION AND RELATIONSHIP TO NEW PROPOSED WORK MUST BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE LOCATION OF UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE LOCATED PRIOR TO ANY WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL THE LOCAL GOVERNING AGENCIES AND UTILITY COMPANIES PRIOR TO CONSTRUCTION TO DETERMINE THEIR UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES EXACT LOCATION AND THE EXISTENCE OF ANY NOT SHOWN. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES AND THE OWNER AS TO THE RELOCATION OR REMOVAL OF ANY UTILITIES SHOWN OR NOT SHOWN. THE ENGINEER/ARCHITECT AND THE OWNER DO NOT WARRANT OR GUARANTEE THE COMPLETENESS OR THE CORRECTNESS OF THE INFORMATION GIVEN.

PARKING LOT IMPROVEMENTS - PHASE II  
JEFFERSON COUNTY DEPARTMENT OF PUBLIC WORKS  
COUNTY COURTHOUSE  
725 MAPLE STREET, P.O. BOX 100  
HILLSBORO, MO 63005

| MARK | DATE | DESCRIPTION |
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GENERAL NOTES

C-001

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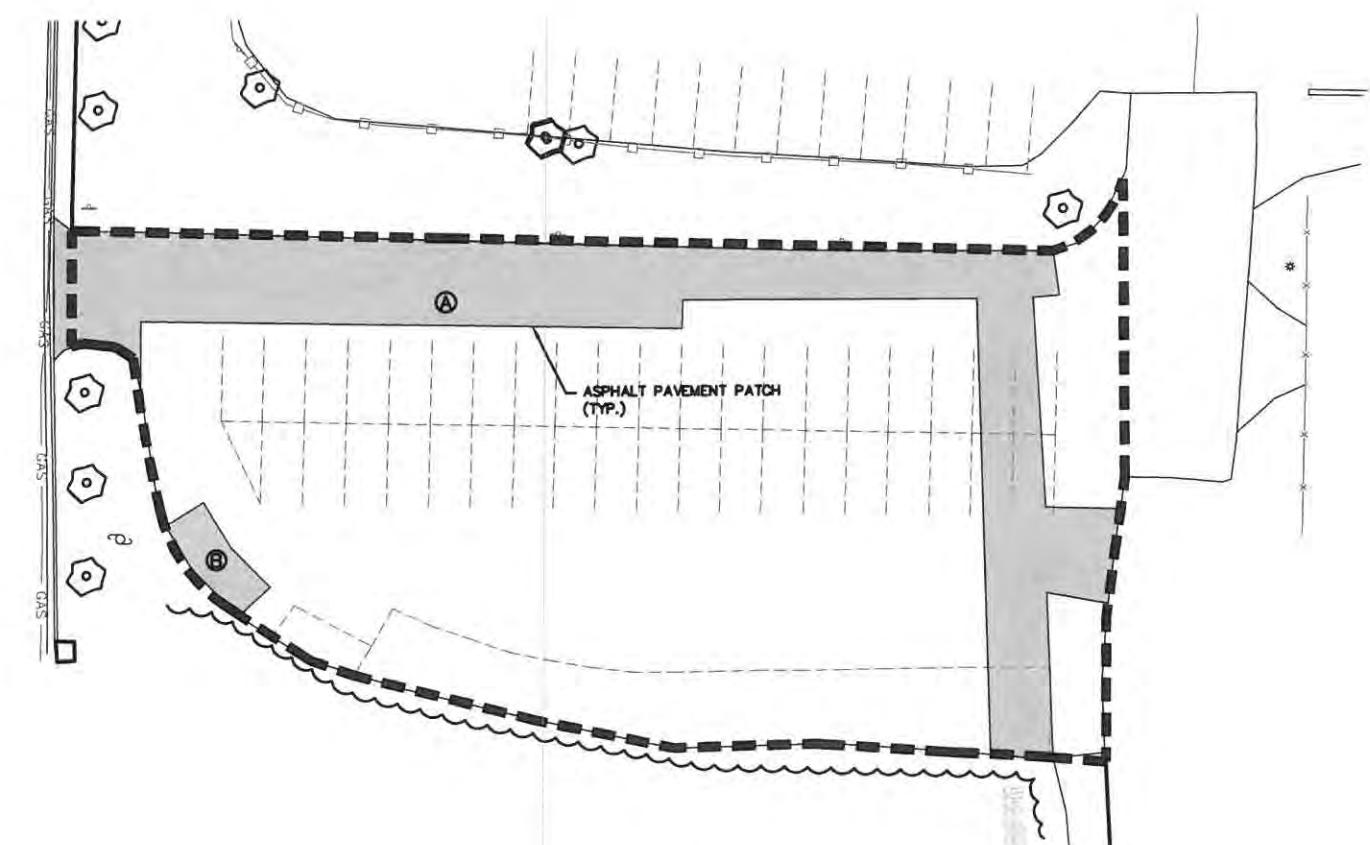
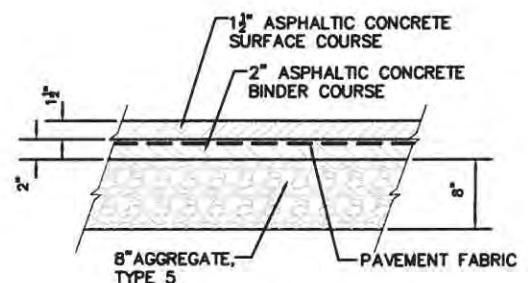
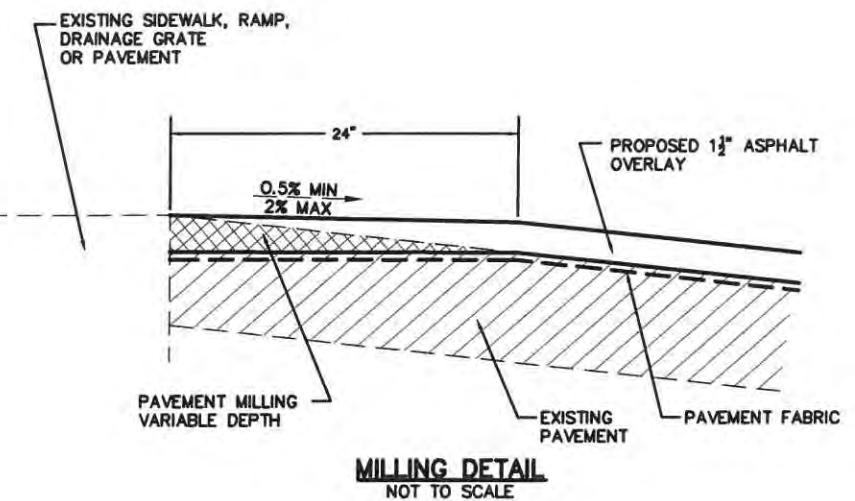
HR  
HURST-ROSCHKE  
ENGINEERS INC.  
3675 W. OUTER ROAD  
SUITE 101  
ARNOLD, MO 63010  
PHONE: 363-333-3351  
HILLSBORO, IL  
EAST ST. LOUIS, IL  
MARION, IL  
SPRINGFIELD, IL  
NEOSHO, MO

STATE OF MISSOURI  
MARK E. WILSON  
NUMBER  
2016025294  
SIGNATURE  
1/22/10  
DATE  
12/3/117  
LICENSE EXPIRES

**NOTES:**

1. ESTIMATED PATCH AREA IS 600 SY. QUANTITIES SHOWN ARE FOR CONTRACTOR'S INFORMATION ONLY. PATCH AREAS AND CRACK FILLING LOCATIONS MAY BE ADJUSTED IN THE FIELD AS DIRECTED BY THE ENGINEER. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ADJUSTMENTS THAT DO NOT EXCEED TOTAL ESTIMATED PLAN QUANTITY AS SHOWN.

2. 2" ASPHALT OVERLAY WILL BE REQUIRED TO BE COMPLETED DURING OFF HOURS, ON WEEKENDS OR COUNTY OBSERVED HOLIDAYS. OFF HOURS SHALL BE CONSIDERED BETWEEN 7:00 PM AND 7:00 AM ON DAYS APPROVED BY THE COUNTY. CONTRACTOR SHALL PROVIDE 72 HOURS NOTICE FOR REQUESTS FOR FULL LOT CLOSURES FOR COUNTY APPROVAL. TYPE III BARRICADES WILL BE REQUIRED FOR THE LOT CLOSURES AND WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT.

**PLAN**

| APPROXIMATE PATCH AREAS |          |
|-------------------------|----------|
| LOCATION                | AREA(SF) |
| Ⓐ                       | 5087     |
| Ⓑ                       | 234      |
| TOTAL                   | 5321 SF  |
|                         | 600 SY   |

**LEGEND**

— — — LIMITS OF 1 1/2" OVERLAY

PAVEMENT PATCHING (SEE DETAIL THIS SHEET)

# HR

**HURST-ROSCHÉ**
**ENGINEERS INC.**

 PROFESSIONAL ENGINEERS AND PLANNERS  
 3675 W. OUTER ROAD  
 SUITE 101  
 ARNOLD, MO 63010  
 PH: 636.333.3351

 HILLSBORO, IL  
 EAST ST. LOUIS, IL  
 MARION, IL  
 SPRINGFIELD, IL  
 NEOSHO, MO

 MARK EDWIN HURST  
 NUMBER 20102529  
 PROFESSIONAL ENGINEER  
 1/22/16  
 12/31/17  
 LICENSE EXPIRES

**PARKING LOT IMPROVEMENTS - PHASE II**

 JEFFERSON COUNTY DEPARTMENT OF PUBLIC WORKS  
 COUNTY COURTHOUSE  
 725 MAPLE STREET, P.O. BOX 100  
 HILLSBORO, MO 63050

| MARK | DATE | DESCRIPTION |
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DATE: 5/28/15  
 PROJECT NO: 845-1175  
 DESIGN: KJW DRAWN: JMA CHECK: MEB

PAVEMENT PATCHING PLAN

**C-101**

# HR

HURST-ROSCHÉ  
ENGINEERS INC.

3675 W. OUTER ROAD  
SUITE 101  
ARNOLD, MO 63010  
PH: 636.333.3351

HILLSBORO, IL  
EAST ST. LOUIS, IL  
MARION, IL  
SPRINGFIELD, IL  
NEOSHO, MO



*Mark E. Bloom*  
SIGNATURE 1/22/16  
DATE 12/31/17  
LICENSE EXPIRES

PARKING LOT IMPROVEMENTS - PHASE II  
JEFFERSON COUNTY DEPARTMENT OF PUBLIC WORKS  
COUNTY COURTHOUSE  
725 MAPLE STREET, P.O. BOX 100  
HILLSBORO, MO 63050

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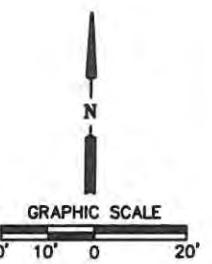
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KJW JMA MEB

STRIPPING PLAN

C-102

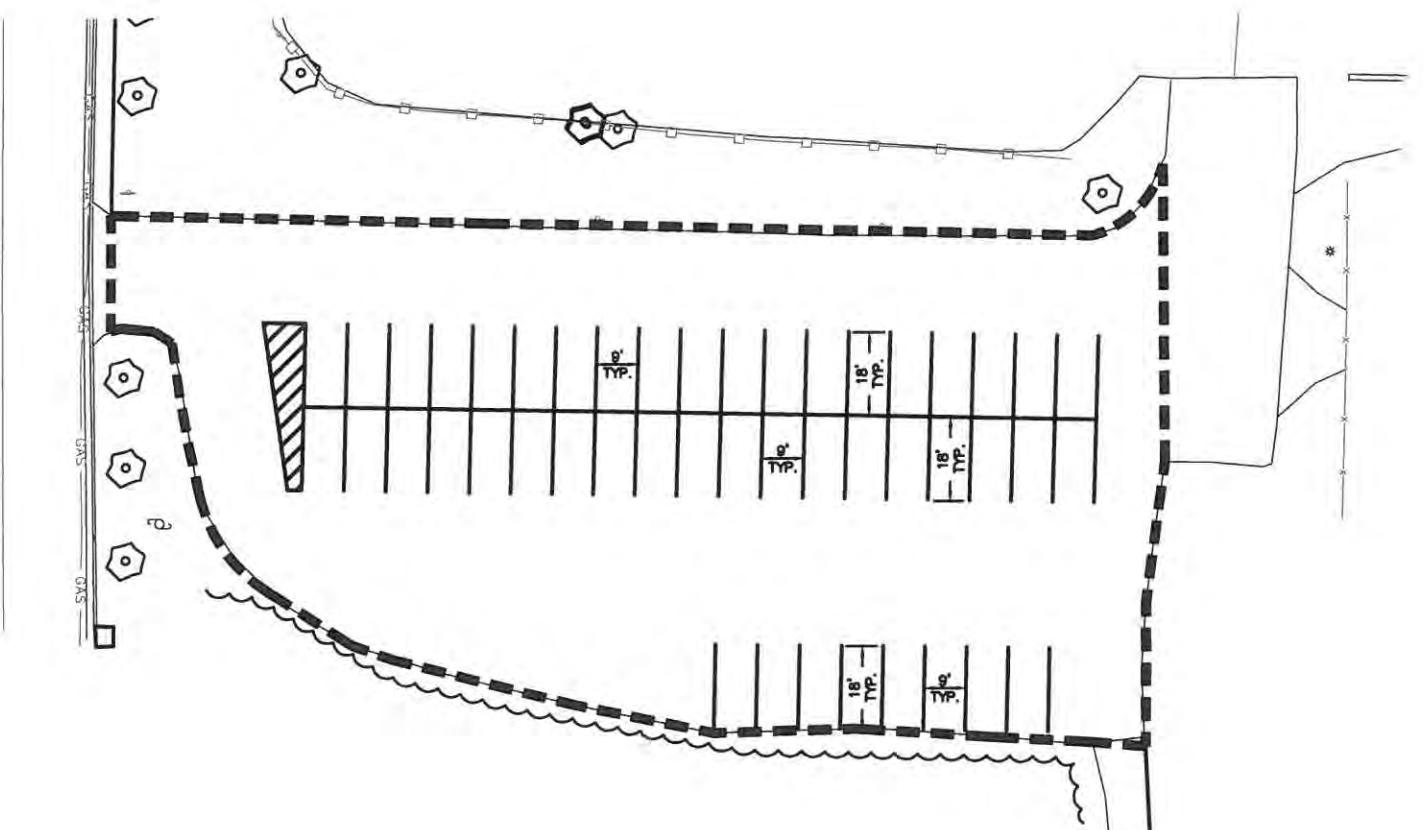
NOTES:

1. APPROXIMATE 1 $\frac{1}{2}$ " OVERLAY AREA IS 2396 SY AND IS NOTED FOR CONTRACTOR'S USE ONLY.  
1 $\frac{1}{2}$ " OVERLAY AREA SHALL CONFORM TO THE OUTLINE AS SHOWN ON THE PLAN.
2. APPROXIMATE STRIPING QUANTITY IS SHOWN FOR CONTRACTOR'S USE ONLY.  
4" WHITE PAINT MARKINGS = 1250 FT



### LEGEND

- — — — LIMITS OF SURFACE TREATMENT
- 4" WHITE PAVEMENT MARKING LINE



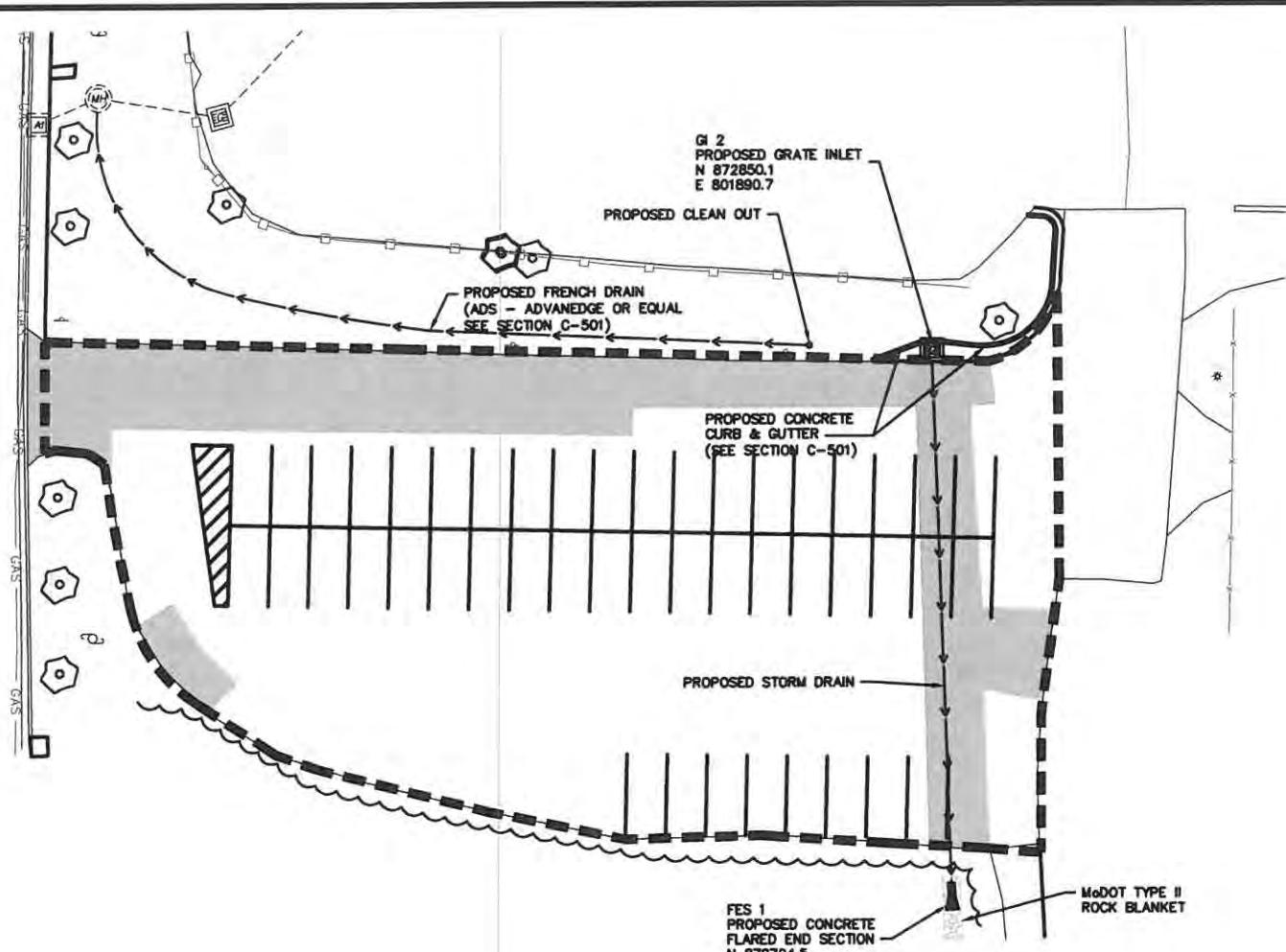
PLAN



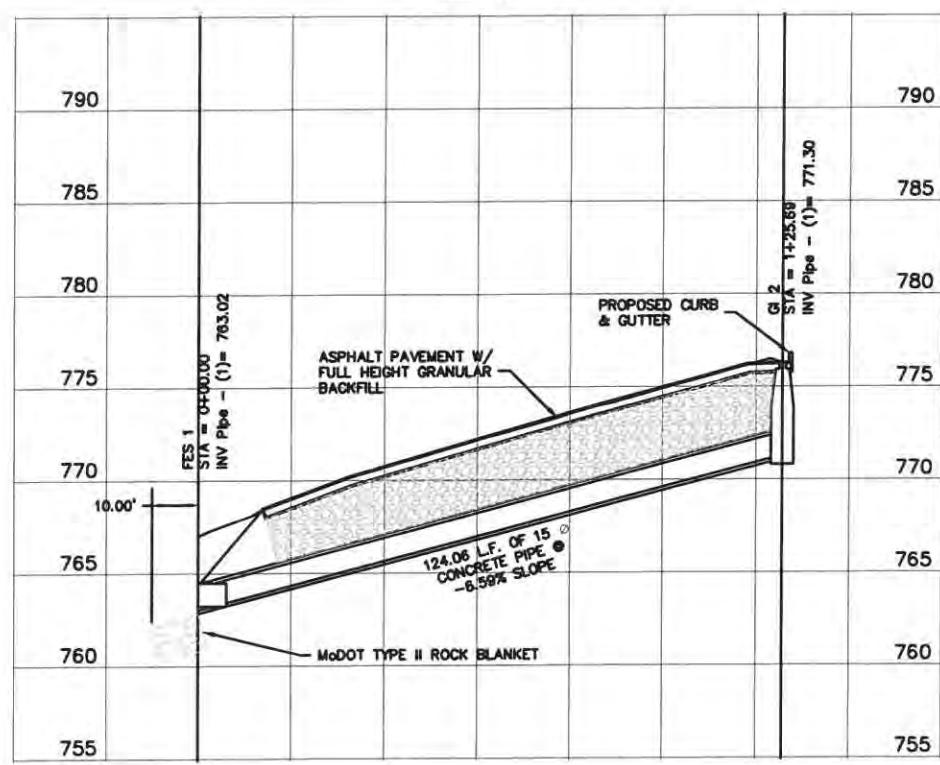
H. E. Bloom  
SIGNATURE 1/22/16  
DATE 12/3/17  
LICENSE EXPIRES

## PARKING LOT IMPROVEMENTS - PHASE II

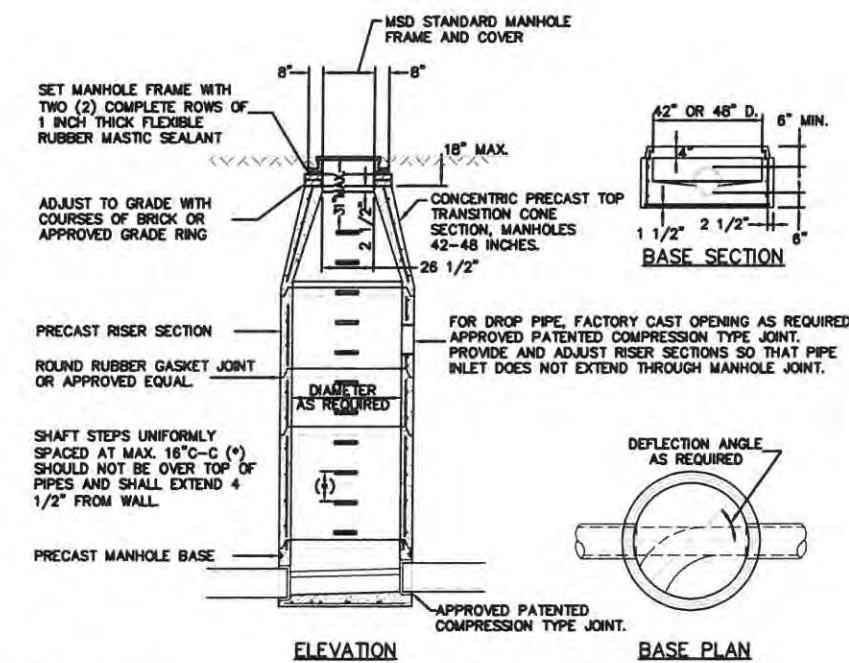
JEFFERSON COUNTY DEPARTMENT OF PUBLIC WORKS  
COUNTY COURTHOUSE  
725 MAPLE STREET, P.O. BOX 100  
HILLSBORO, MO 63050



PLAN



PROFILE



ELEVATION

BASE PLAN

NOTES:

- 1) THE MINIMUM INSIDE DIAMETER FOR THE BASE AND RISER SECTIONS SHALL BE 42 INCHES FOR 8 INCH DIAMETER SANITARY SEWERS AND ALL STORM SEWERS. THE MINIMUM INSIDE DIAMETER FOR SANITARY SEWERS LARGER THAN 8 INCH DIAMETER IS 48 INCHES. MANHOLE SHALL MEET ASTM C-478 REQUIREMENTS.
- 2) FLOWLINE ELEVATION OF INCOMING PIPES SHALL BE 1 INCH HIGHER THAN THAT OF OUTGOING PIPE.
- 3) PIPE SIZES LARGER THAN 24 INCH DIAMETER MAY REQUIRE MANHOLE DIAMETERS OF 60 INCH, 72 INCH OR 96 INCH AS DETERMINED BY OUTSIDE DIAMETERS AND ORIENTATIONS OF CONNECTING PIPES.
- 4) ECCENTRIC CONES SHALL BE USED ON DIAMETERS 60 INCH AND LARGER. STEPS SHALL EXTEND DOWN VERTICAL WALL OF CONE.
- 5) PRIOR TO FABRICATION, SHOP DRAWINGS SHALL BE SUBMITTED TO THE DISTRICT FOR APPROVAL OF MANHOLES ON PIPE DIAMETERS LARGER THAN 24 INCH AND ALSO FOR THOSE STRUCTURES WITH A DROP PIPE CONNECTION.

PRE-CAST CONCRETE MANHOLE

| MARK                 | DATE       | DESCRIPTION |
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| DATE: 5/28/15        |            |             |
| PROJECT NO: 845-1175 |            |             |
| DESIGN: KJW          | DRAWN: JMA | CHECK: MEB  |

STORM SEWER  
PLAN & PROFILES

C-103

# HR

HURST-ROSCHÉ  
ENGINEERS INC.

PROFESSIONAL ENGINEERS NUMBER 60079  
3675 W. OUTER ROAD  
SUITE 101  
ARNOLD, MO 63010  
PH: 636.333.3351

HILLSBORO, IL  
EAST ST. LOUIS, IL  
MARION, IL  
SPRINGFIELD, IL  
NEOSHO, MO



Signature: H. G. Bloome  
Date: 12/13/17  
License Expires: 12/13/17

PARKING LOT IMPROVEMENTS - PHASE II  
JEFFERSON COUNTY DEPARTMENT OF PUBLIC WORKS  
COUNTY COURTHOUSE  
725 MAPLE STREET, P.O. BOX 100  
HILLSBORO, MO 63050

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DATE: 5/28/15  
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MISCELLANEOUS DETAILS

C-501

