

# 2422.0 SOUTH CAMPUS PARKING LOT EXPANSION UNIVERSITY OF KENTUCKY

LEXINGTON, KENTUCKY  
MAY, 2015



CAPITAL PROJECT MANAGEMENT DIVISION  
UNIVERSITY OF KENTUCKY



STAGGS & FISHER CONSULTING ENGINEERS, INC.  
3264 LOCHNESS DRIVE  
LEXINGTON, KY 40517

(859) 271-3246  
stengineering.com

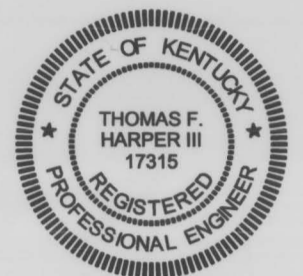


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### VICINITY MAP NOT TO SCALE

CONTRACT NO.  
600-048  
2015



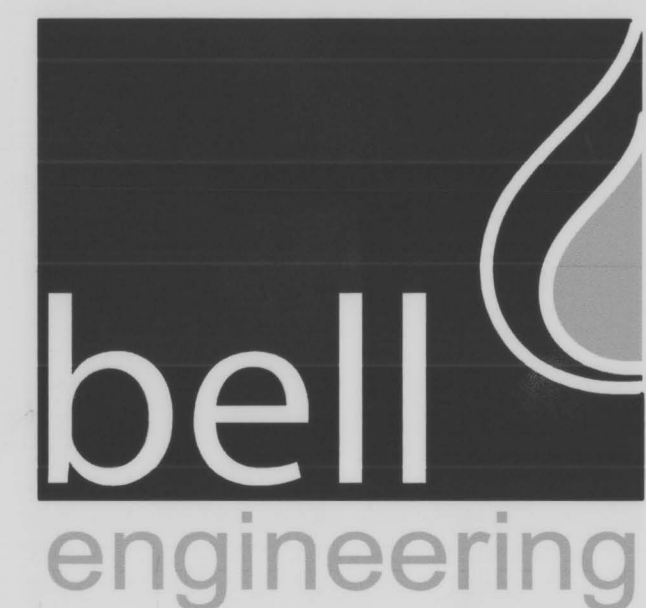
2422.0 SOUTH CAMPUS PARKING LOT EXPANSION  
UNIVERSITY OF KENTUCKY  
LEXINGTON, KENTUCKY

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#### BID NOTE:

KENTUCKY STATUTES (KRS 367.4901 THROUGH 367.4917) REQUIRE THAT ALL EXCAVATORS PLANNING EXCAVATION OR DEMOLITION WORK SHALL NOTIFY ALL UTILITY COMPANIES IN THE AREA AND/OR AN UNDERGROUND PROTECTION SERVICE SUCH AS BUD (1-800-752-6007 OR 811) AT LEAST TWO (2) WORKING DAYS BEFORE COMMENCING WORK TO ALERT UTILITY COMPANIES IN THE AREA WITH UNDERGROUND FACILITIES OF THE PLANNED EXCAVATION OR DEMOLITION ACTIVITIES.

- SCHEMATIC DESIGN
- DESIGN DEVELOPMENT
- UK REVIEW 95%
- BELL REVIEW
- BID DOCUMENTS
- RECORD DRAWINGS



2480 fortune drive, suite 350  
lexington, kentucky 40509  
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www.hkbell.com

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15-A-3

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- C41 STORM PIPE PROFILES
- C42 DRAINAGE STRUCTURE DETAILS
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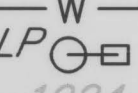



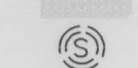


## UTILITIES

- U10 SITE UTILITIES PLAN

## LANDSCAPING

- L10 LANDSCAPING PLAN
- L11 LANDSCAPING DETAILS

## LEGEND

EXISTING OVERHEAD ELECTRIC	—E—
EXISTING STORM SEWER	—STORM—
EXISTING GAS LINE	—G—
CABLE TELEVISION	—CTV—
EXISTING UNDERGROUND ELECTRIC	—UE—
EXISTING WATER LINE	—W—
EXISTING LIGHT POLE	LP 
EXISTING CONTOURS	—1024—
PROPOSED CONTOURS	—1024—
PROPOSED STORM SEWER DRAINAGE (direction of flow)	—SS—
EXISTING TREES	
EXISTING TREE OR BUSH TO BE REMOVED	
DRAIN INLET	DI
CURB INLET	CI
HEADWALL	HW
TOP OF STEP	TS
DO NOT DISTURB	DND
TREE PROTECTION FENCING	—TP—
SILT FENCE	—SF—
TEMPORARY DIVERSION DITCH	—TD—
LIMITS OF DISTURBANCE	— — — —
EXISTING BOLLARDS	o
EXISTING RIPRAP	
PROPOSED RIPRAP	
EXISTING MANHOLE	
PROPOSED MANHOLE	

### CONTROL POINTS

SEE SHEET C30 FOR CONTROL POINTS.

### BEFORE YOU DIG - CALL 811

\*KENTUCKY STATUTES (KRS 367.4903 THROUGH 367.4917) REQUIRE THAT ALL EXCAVATORS PLANNING EXCAVATION OR DEMOLITION WORK SHALL CALL ALL UTILITY COMPANIES IN THE AREA AND/OR AN UNDERGROUND PROTECTIONS SERVICE SUCH AS "BUD" (1-800-752-6007) NOT LESS THAN TWO (2) BUSINESS DAYS NOR MORE THAN TEN (10) BUSINESS DAYS PRIOR TO COMMENCING WORK TO NOTIFY UTILITY COMPANIES IN THE AREA WITH UNDERGROUND FACILITIES OF THE PLANNED EXCAVATION OR DEMOLITION ACTIVITIES.

### UTILITY OWNERS

KENTUCKY AMERICAN WATER COMPANY  
2300 RICHMOND ROAD  
LEXINGTON, KENTUCKY 40502  
PHONE: 859-268-6357

COLUMBIA GAS OF KENTUCKY  
P.O. BOX 241  
LEXINGTON, KENTUCKY  
PHONE: 859-288-0243

KENTUCKY UTILITIES  
500 STONE ROAD  
LEXINGTON, KENTUCKY 40503  
PHONE: 859-278-9355


LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT  
DIVISION OF WATER QUALITY  
125 LISLE INDUSTRIAL AVENUE, SUITE 180  
LEXINGTON, KENTUCKY 40511  
PHONE: 859-425-2255  
859-425-2400

UNIVERSITY OF KENTUCKY PHYSICAL PLANT DIVISION  
225 PETERSON SERVICE BUILDING  
LEXINGTON, KENTUCKY 40506  
PHONE: 859-257-5929  
• WATER  
• SEWER  
• STORM  
• POWER  
• COMMUNICATION

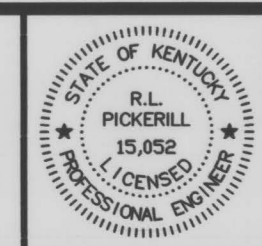
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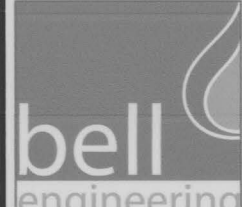
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DRAWN	DJS			
CHECKED	?			
APPROVED	RLP			

 GRAPHIC SCALE SCALE: AS SHOWN
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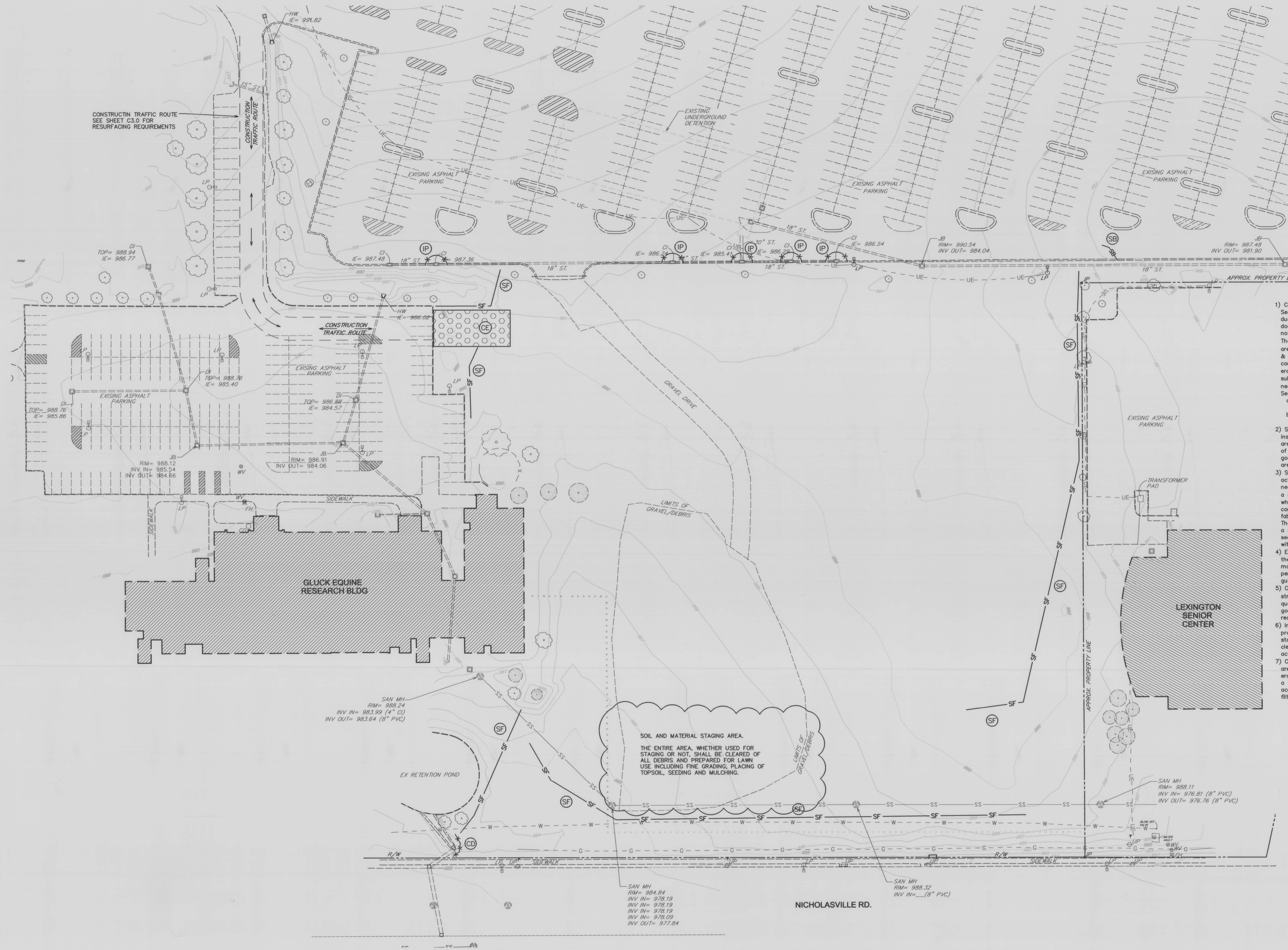
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 CAPITAL PROJECT MANAGEMENT DIVISION  
 UNIVERSITY OF KENTUCKY  
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INDEX OF DRAWINGS,  
 LEGEND & GENERAL NOTES

DIVISION	GENERAL
CONTRACT NO.	600-048
DATE	MAY, 2015
SHEET NO.	G0.2

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**SOUTH CAMPUS PARKING LOT EXPANSION PROJECT  
EROSION & SEDIMENT CONTROL NOTES**

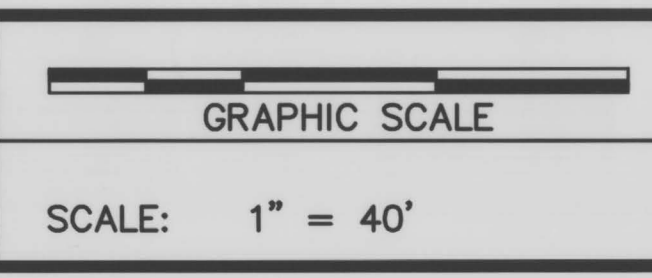
- May, 2015
- Contractor shall prepare as a part of his construction scheduling plan an Erosion & Sediment Control plan. This plan shall indicate means of controlling erosion and sediment due to construction activities throughout the entire project. Guidance for preparing this document may be found in LFUCG Stormwater Manual, Chapter 11, and herein. Directives noted in these Plans and Specifications are not intended to dictate construction schedule. They are provided for Contractor's information and to illustrate how the project components are interrelated. Note that many erosion / sediment control BMPs require periodic inspection & maintenance. The Contractor is responsible for maintaining these BMPs throughout the course of the project. Because of the relationship between construction scheduling and erosion / sediment control, this Plan must be developed by the Contractor. This Plan will be submitted for review and approval by the Engineer, who will review for conformance with necessary erosion / sediment control performance. General requirements of the Erosion & Sediment Control Plan include the following:
    - Control runoff around the construction sites, such that the effects of disturbing the ground surface are minimized on site and downstream.
    - Construction is to be sequenced such that erosion and sediment transport is controlled. Some measures of accomplishing this are outlined herein.
  - Silt Fencing is to be installed to protect areas downstream from construction and must be installed prior to disturbance in an area. They may be removed once all of the disturbed areas lying upstream have been stabilized. Details are included herein for the construction of silt fences. Contractor is responsible for periodic inspection and ensuring that they are in good working order throughout the project. Where silt control is required along pavement areas, use sand bag Silt Barriers when Silt Fencing cannot be used.
  - Stabilized construction entrances are required at all points of access for construction activity. They are to be placed in order to minimize disturbance for drivers and residents near the construction site. Construction entrances are required wherever vehicles are leaving a construction site and enter onto a public road and at any unopened entrance/exit location where there is risk of transporting mud or sediment onto paved roads. They are to be constructed of a minimum of 6" thickness of #2 crushed stone laid over KYTC Type III filter fabric. They are to be at least 20 feet long and as wide as the entire width of the access. The entrance shall be inspected weekly and after there has been a high volume of traffic or a storm event greater than 0.2 inches. The entrance shall be maintained to prevent sediments being deposited onto public rights-of-way, which may require periodic top dressing with additional stone, or other measures, as-needed.
  - Erosion control blankets shall be used on recently planted slopes to protect seedlings until they become established. Acceptable products include mulch netting and erosion control matting. In all cases, the Contractor shall perform periodic inspection to ensure proper performance & shall complete any necessary repairs. LFUCG Figures 11-1, 5, 6 & 7 provide guidance for using erosion control matting on slopes.
  - Concrete washout pits shall be constructed to minimize the discharge of pollutants into streams. They shall be sized approximately 20' x 20' x 5' and provided in sufficient quantities according to concrete placement within an area. They are to be maintained in good working order by the Contractor throughout the project and be cleaned when they reach approximately 75% of their volume.
  - Inlet protection shall be provided at all storm drain inlets. The purpose of the inlet protection is to prevent sediment from entering storm drainage systems prior to permanent stabilization of the disturbed area. They shall be constructed in a manner that will facilitate cleanup and disposal of trapped sediment and minimize interference with construction activities. LFUCG Figures 11-23 and 24 provide guidance for constructing inlet filters.
  - Check dams are small temporary dams constructed across a swale or drainage ditch. They are used to reduce the velocity of concentrated stormwater flows in order to reduce its erosion. The check dam will also trap small amounts of sediment, but is not considered as a sediment-trapping practice. Their use is limited to small, open channels that drain 5 acres or less. Check dams may be constructed of stones with filter fabric or sand bag filters and are limited in height to two feet.

EROSION CONTROL LEGEND		
SYMBOLS	DESCRIPTION	DETAIL NO. AND SHEET
(CE)	CONSTRUCTION EXIT	SEE SHEET C1.1
(SF)	SILT FENCE	SEE SHEET C1.1
(CD)	CHECK DAM	SEE SHEET C1.1
(SB)	SILT BARRIER	SEE SHEET C1.1
(IP)	INLET PROTECTION	SEE SHEET C1.1

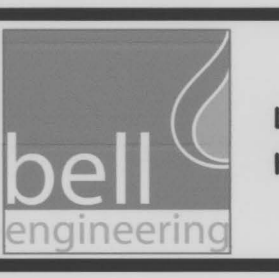
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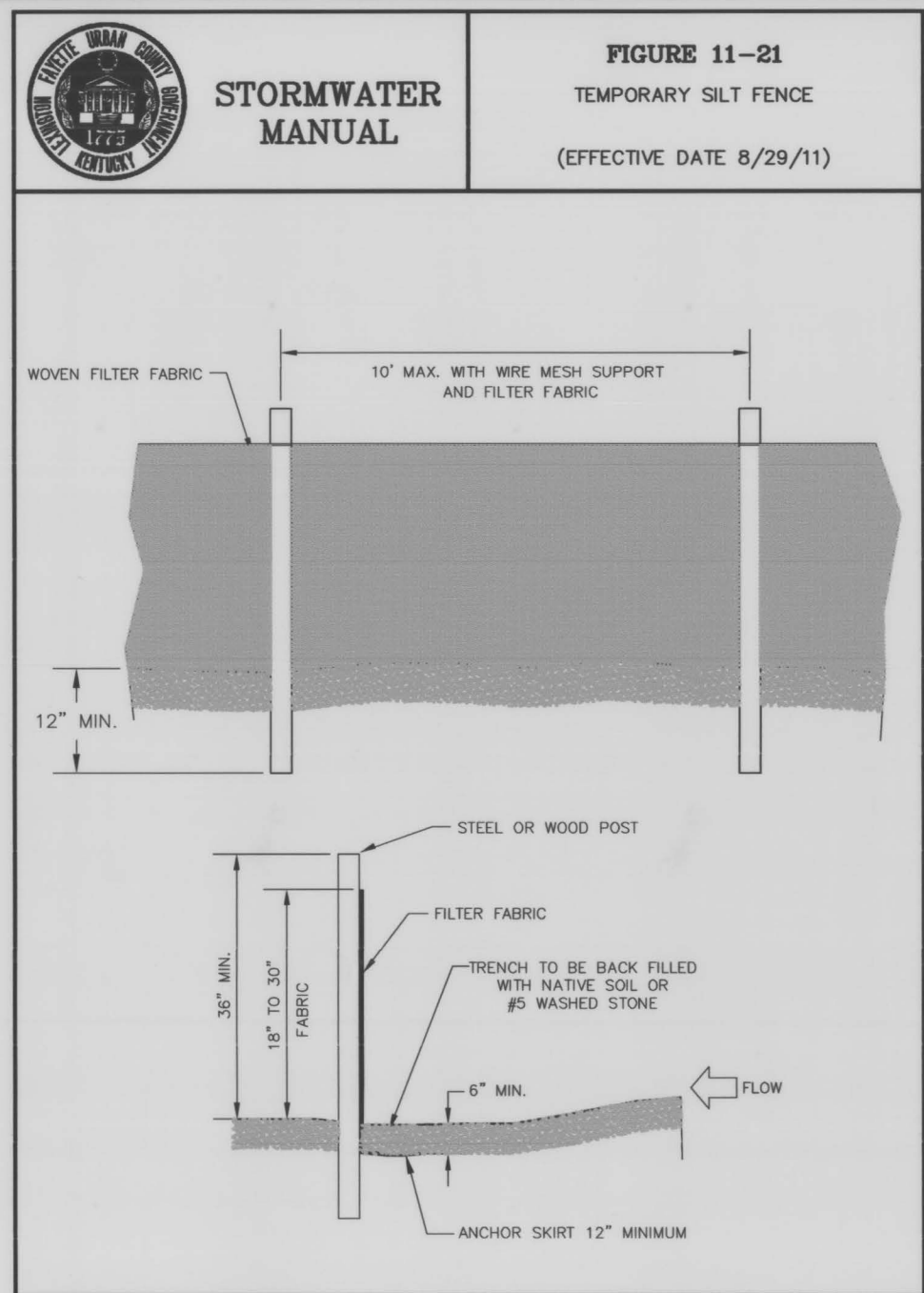
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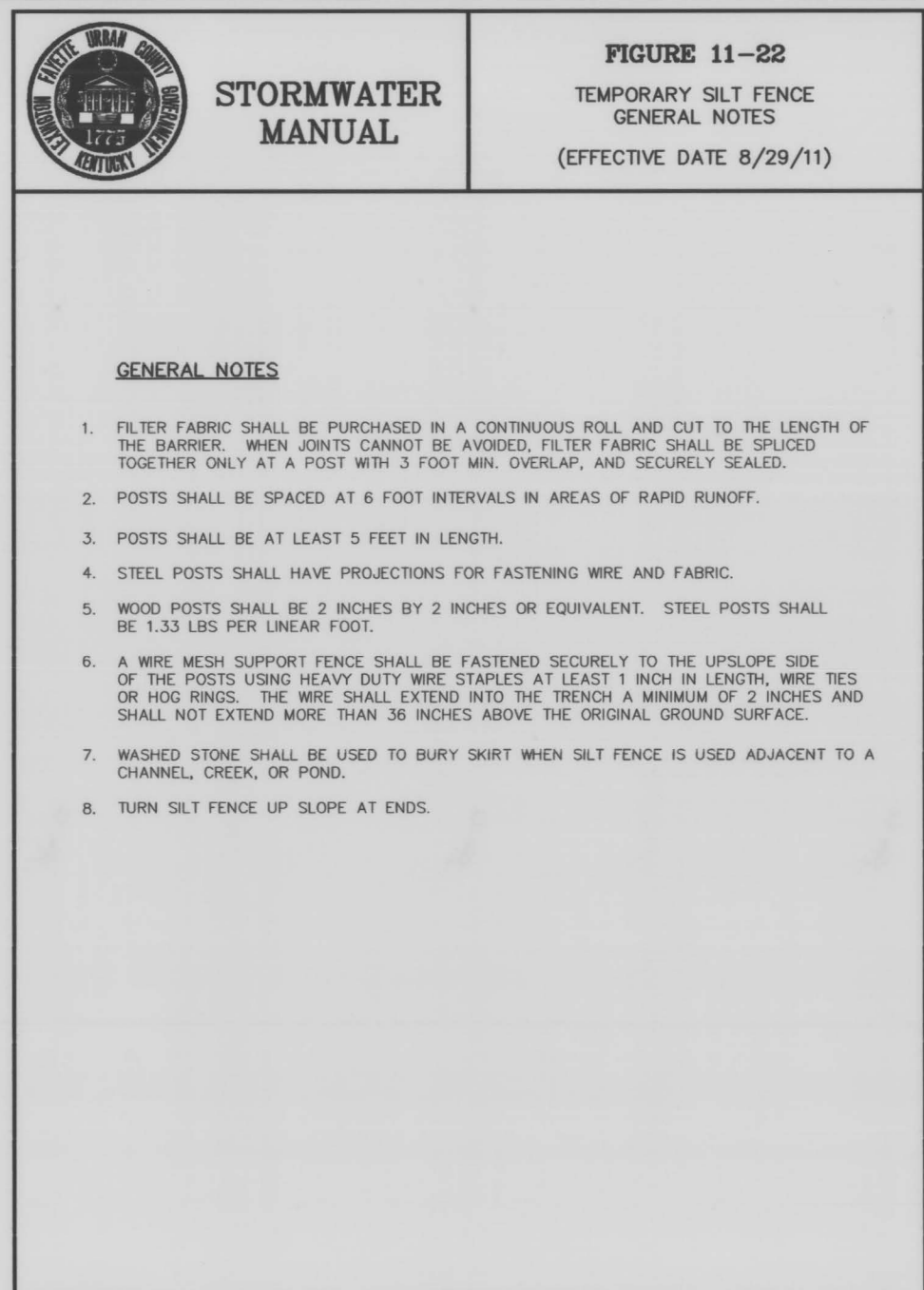
**EROSION PREVENTION AND  
SEDIMENT CONTROL PLAN**

DIVISION	CIVIL
CONTRACT NO.	600-048
DATE	MAY, 2015
SHEET NO.	C1.0

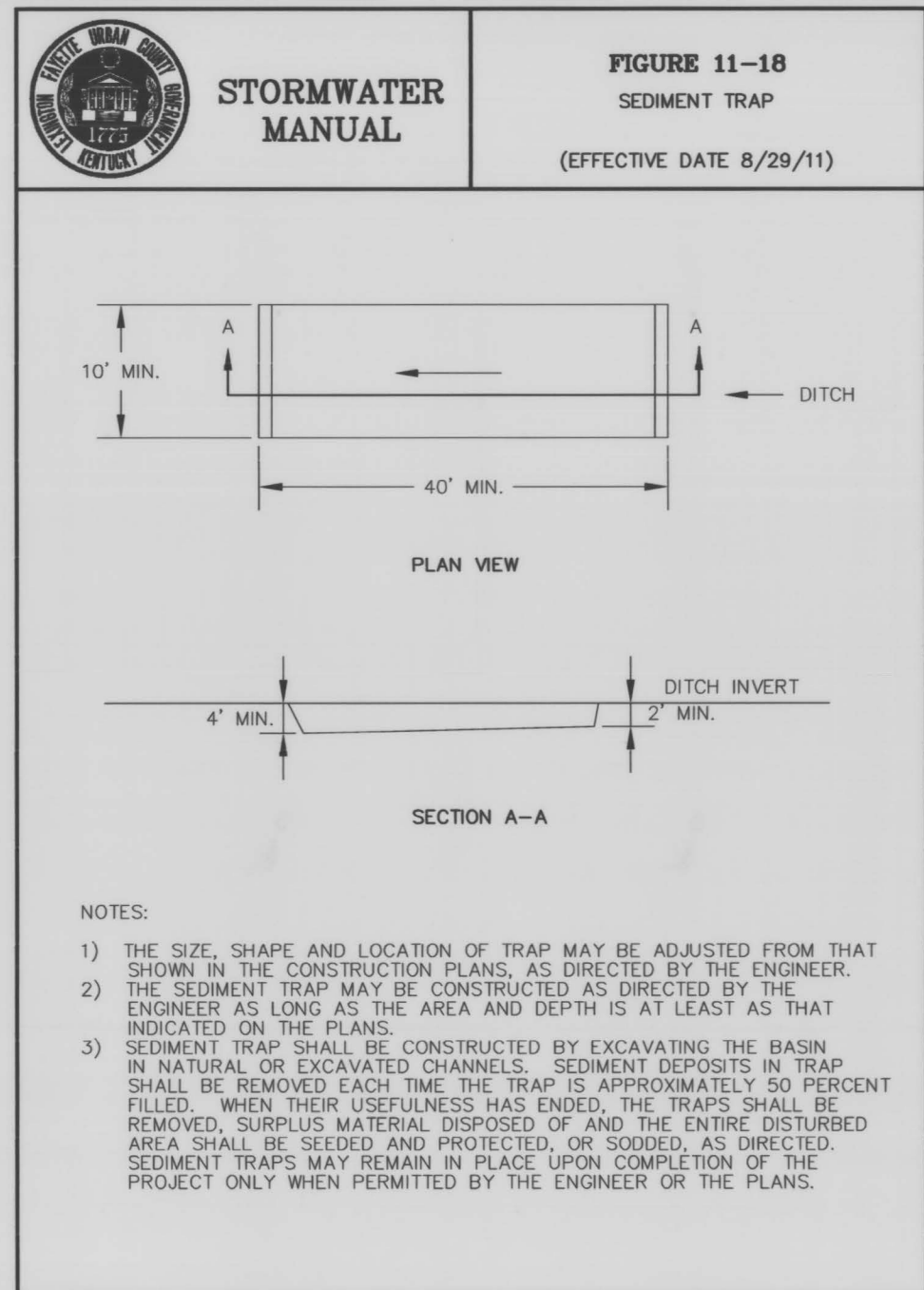
N:\UK\600-048 South Campus Lot Expansion\Record Drawings\South Campus Expansion\C1.0 Erosion&Sediment.dwg, 1/28/2015, 10:20:19 AM, Doug



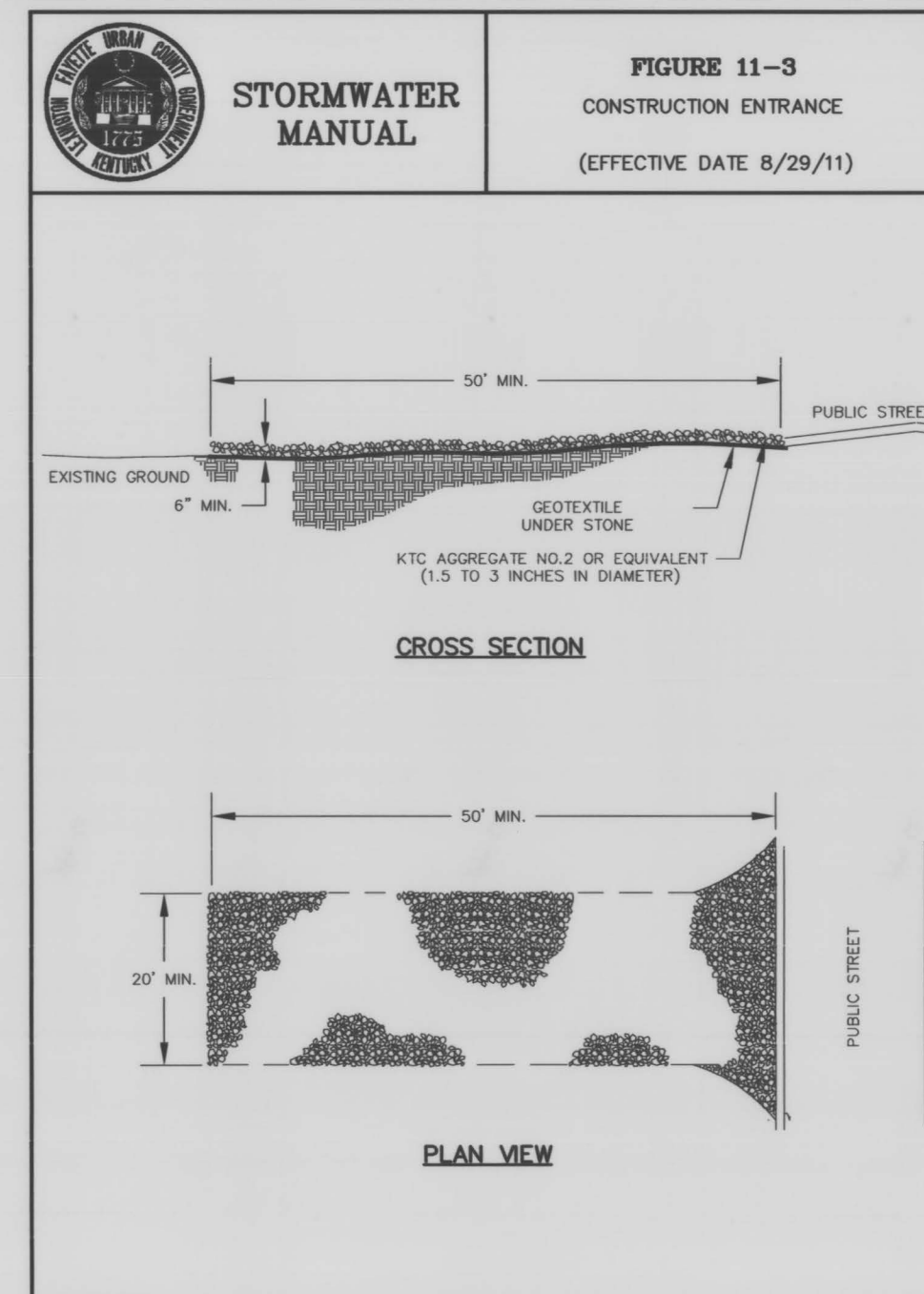
**FIGURE 11-21**  
STORMWATER MANUAL  
TEMPORARY SILT FENCE  
(EFFECTIVE DATE 8/29/11)



**FIGURE 11-22**  
STORMWATER MANUAL  
TEMPORARY SILT FENCE  
GENERAL NOTES  
(EFFECTIVE DATE 8/29/11)



**FIGURE 11-18**  
STORMWATER MANUAL  
SEDIMENT TRAP  
(EFFECTIVE DATE 8/29/11)



**FIGURE 11-3**  
STORMWATER MANUAL  
CONSTRUCTION ENTRANCE  
(EFFECTIVE DATE 8/29/11)

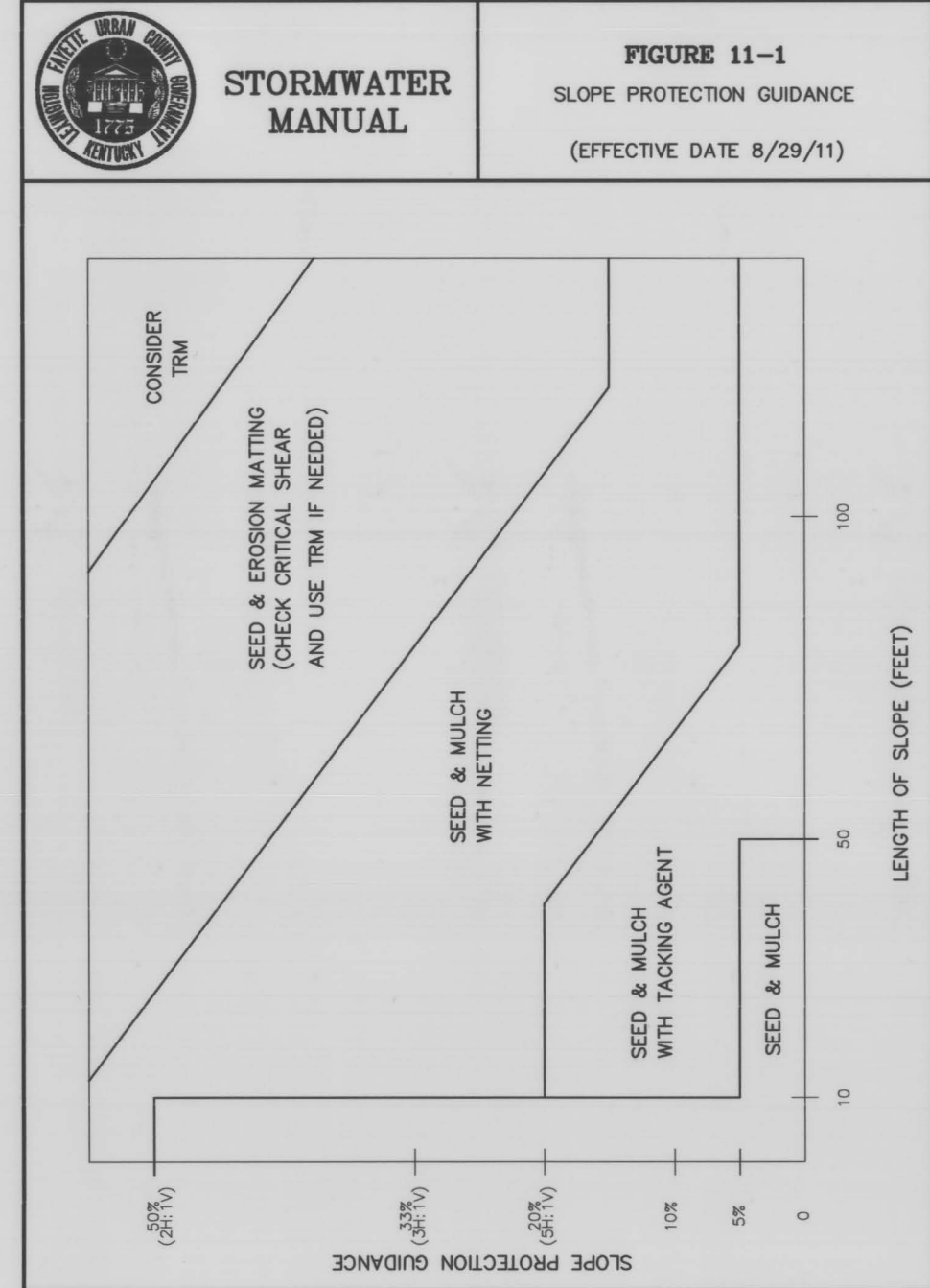
**FIGURE 11-4**  
STORMWATER MANUAL  
CONSTRUCTION ENTRANCE  
NOTES AND SPECIFICATIONS  
(EFFECTIVE DATE 8/29/11)

**SPECIFICATIONS FOR GEOTEXTILE FABRIC**

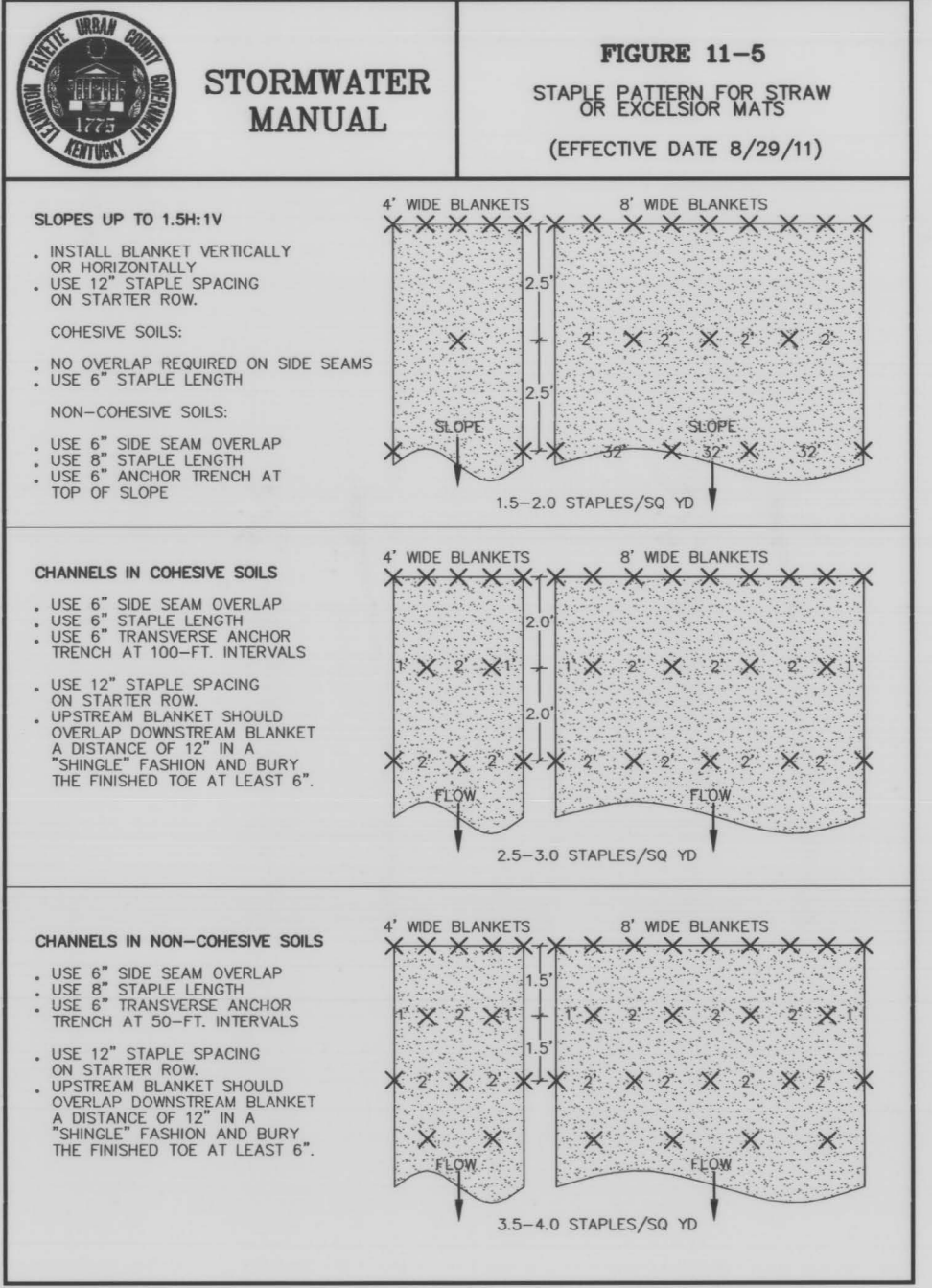
GRAB TENSILE STRENGTH	220 LBS. (MIN.) (ASTM D1682)
ELONGATION FAILURE	60% (MIN.) (ASTM D1682)
MULLEN BURST STRENGTH	430 LBS. (MIN.) (ASTM D3768)
PUNCTURE STRENGTH	125 LBS. (MIN.) (ASTM D751)
EQUIVALENT OPENING	SIZE 40-80 (US STD. SIEVE) (CW-02215)

**NOTES**

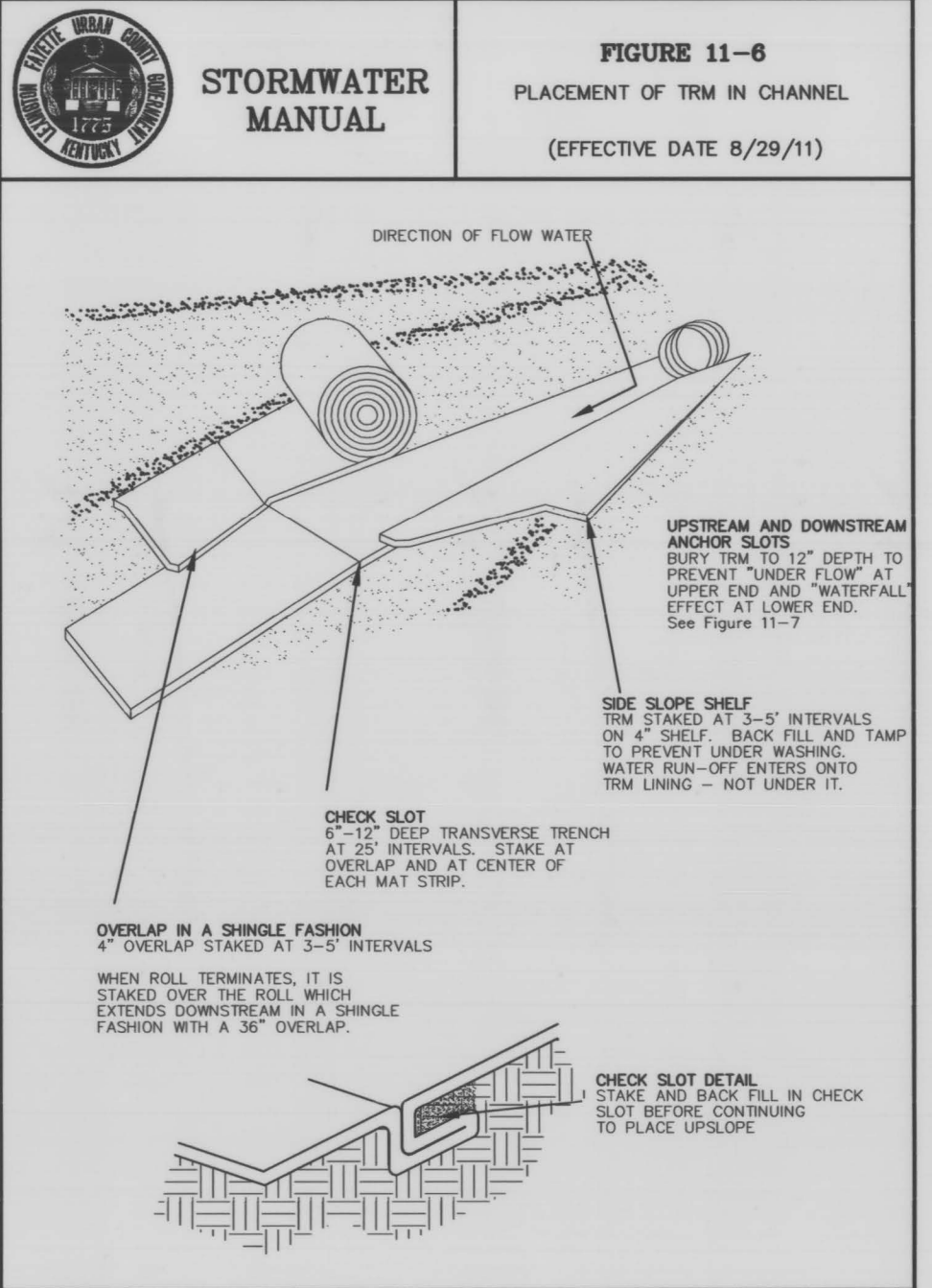
- A STABILIZED ENTRANCE PAD OF CRUSHED STONE SHALL BE LOCATED WHERE TRAFFIC WILL ENTER OR LEAVE THE CONSTRUCTION SITE ONTO A PUBLIC STREET.
- SOIL STABILIZATION FABRIC SHALL BE USED AS A BASE FOR THE CONSTRUCTION ENTRANCE.
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC STREETS OR EXISTING PAVEMENT. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS WARRANT AND REPAIR OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
- ANY SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC STREETS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- WHEN APPROPRIATE, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING A PUBLIC STREET. WHEN WASHING IS REQUIRED, IT SHALL BE DONE IN AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN.



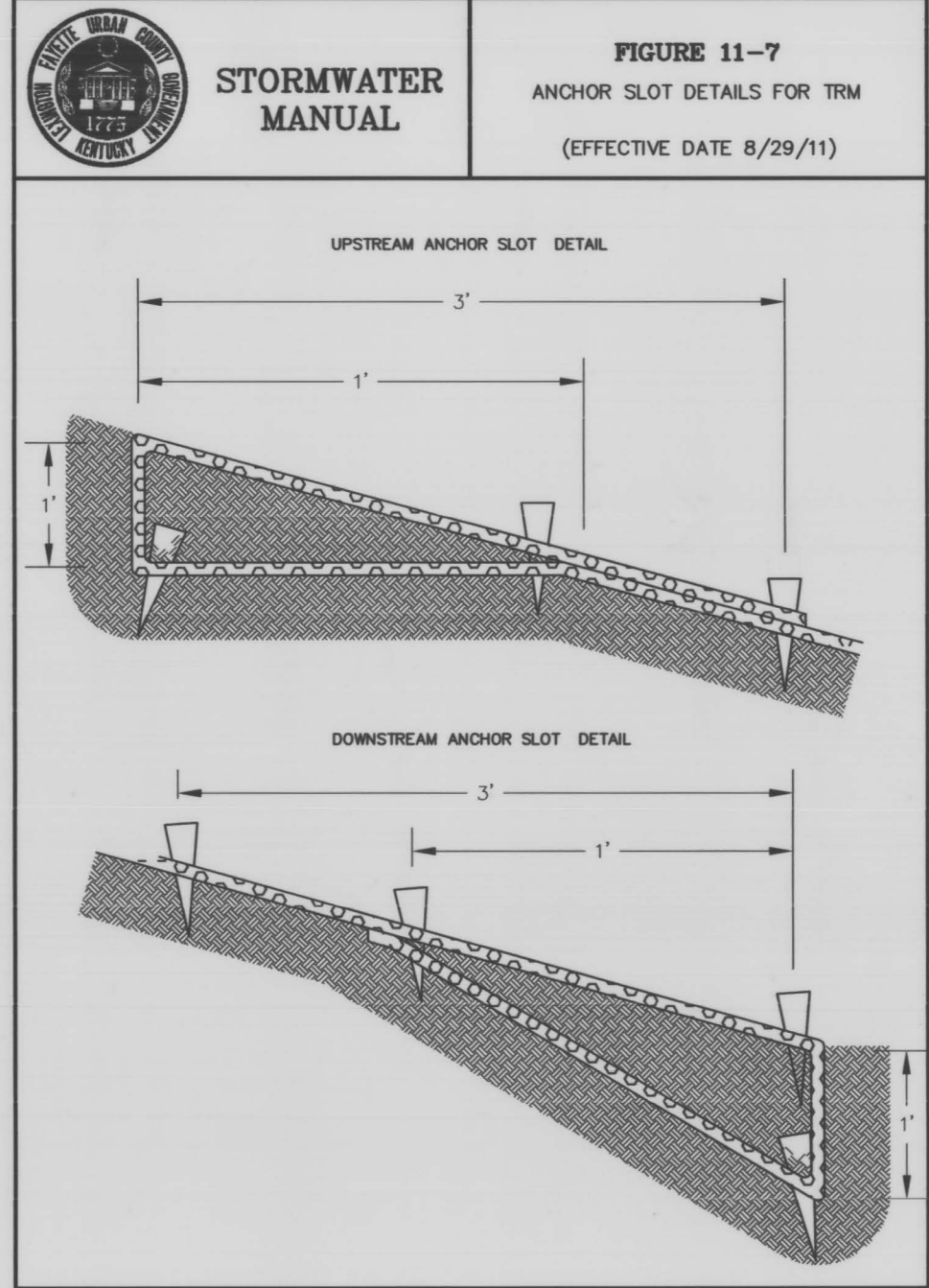
**FIGURE 11-1**  
STORMWATER MANUAL  
SLOPE PROTECTION GUIDANCE  
(EFFECTIVE DATE 8/29/11)



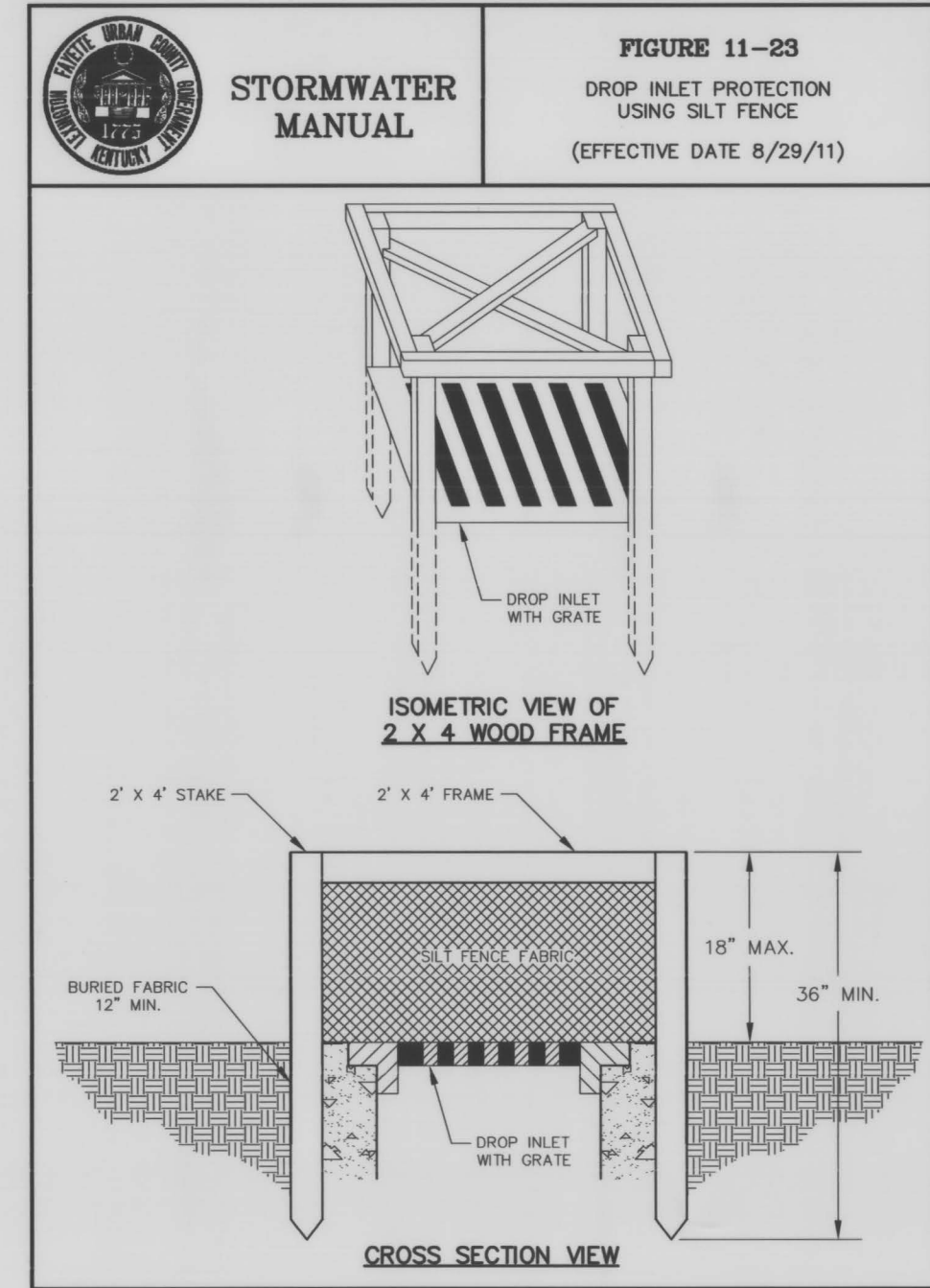
**FIGURE 11-5**  
STORMWATER MANUAL  
STAPLE PATTERN FOR STRAW OR EXCELSIOR MATS  
(EFFECTIVE DATE 8/29/11)



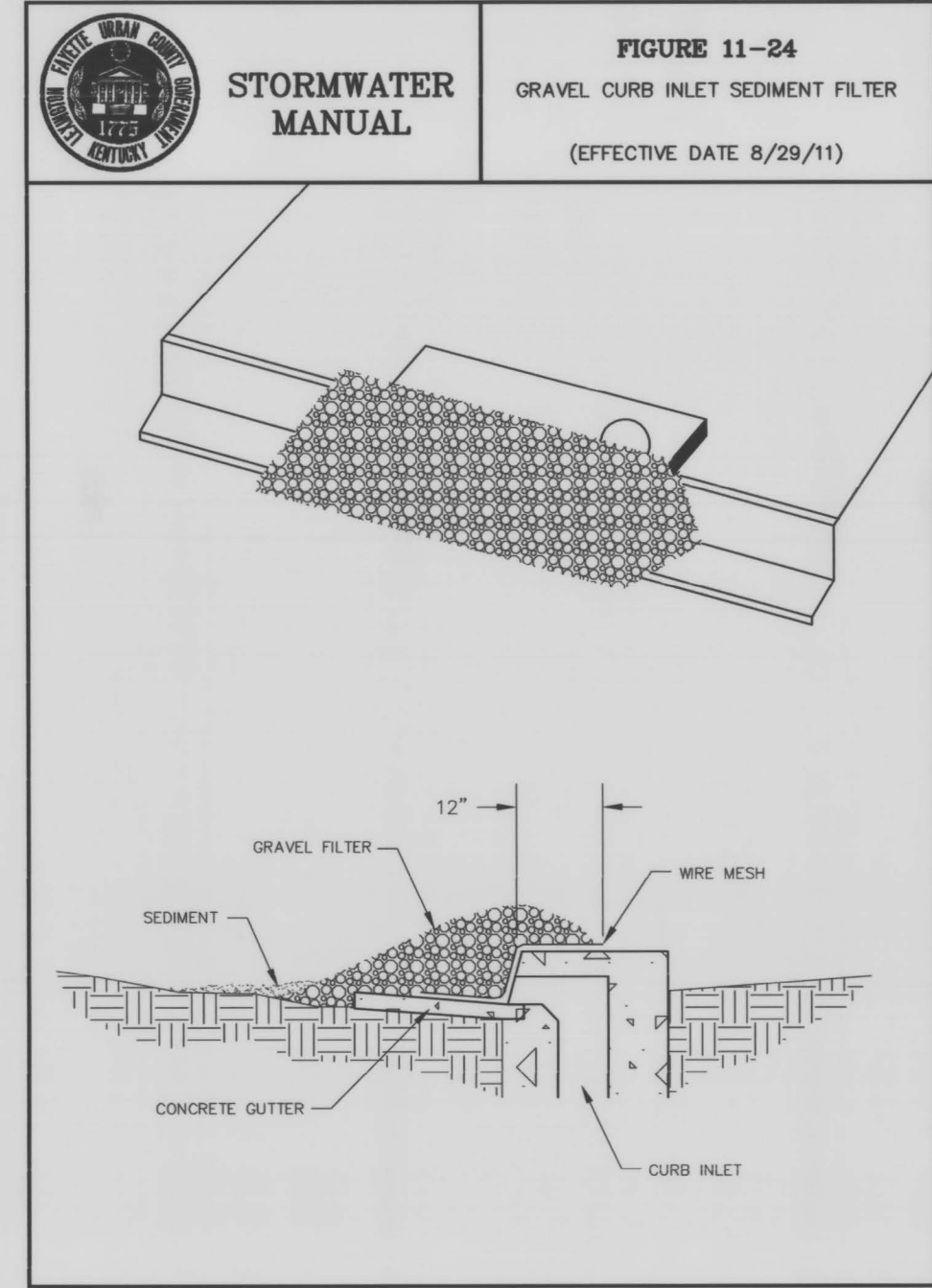
**FIGURE 11-6**  
STORMWATER MANUAL  
PLACEMENT OF TRM IN CHANNEL  
(EFFECTIVE DATE 8/29/11)



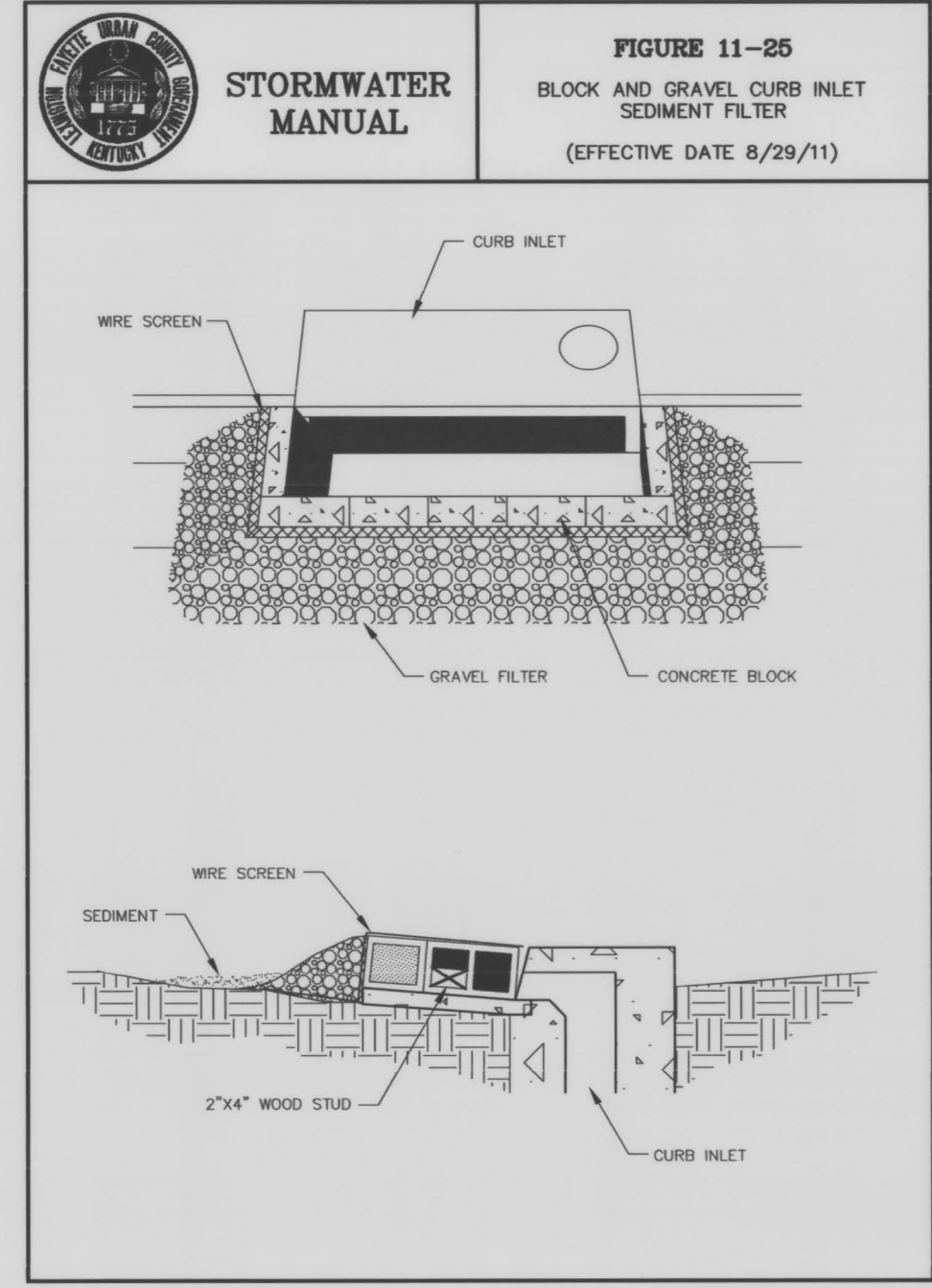
**FIGURE 11-7**  
STORMWATER MANUAL  
ANCHOR SLOT DETAILS FOR TRM  
(EFFECTIVE DATE 8/29/11)



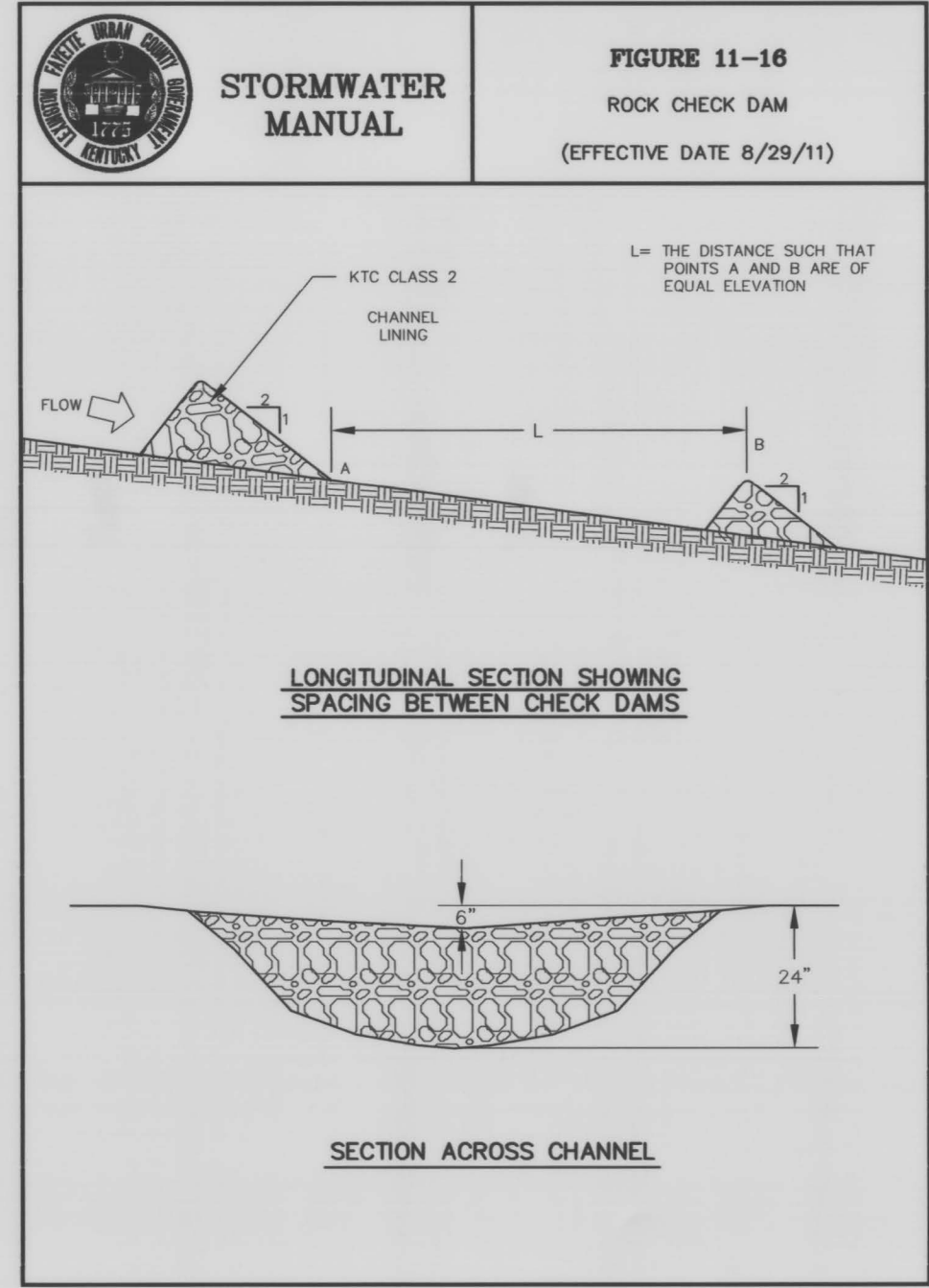
**FIGURE 11-23**  
STORMWATER MANUAL  
DROP INLET PROTECTION USING SILT FENCE  
(EFFECTIVE DATE 8/29/11)



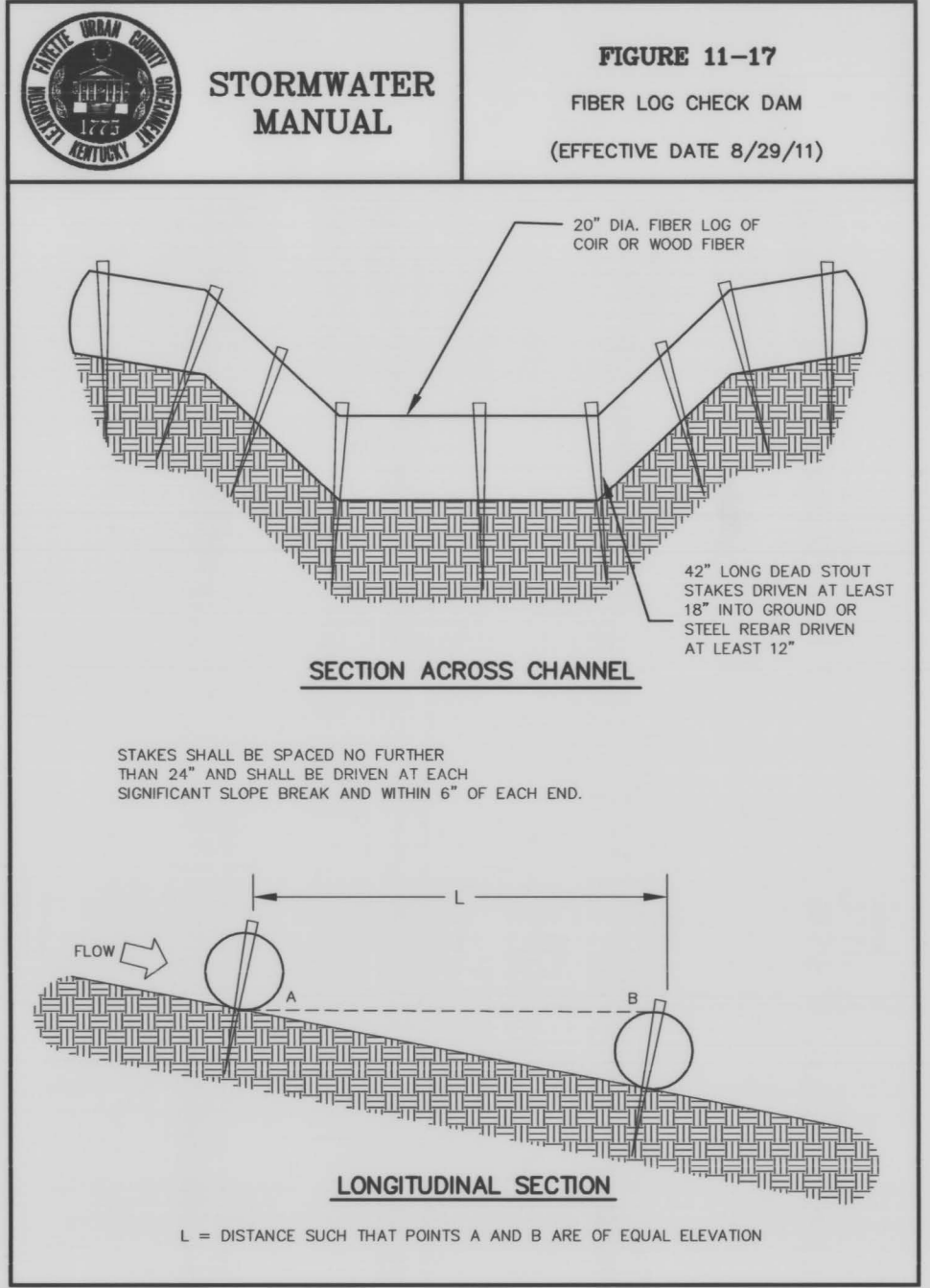
**FIGURE 11-24**  
STORMWATER MANUAL  
GRAVEL CURB INLET SEDIMENT FILTER  
(EFFECTIVE DATE 8/29/11)



**FIGURE 11-25**  
STORMWATER MANUAL  
BLOCK AND GRAVEL CURB INLET SEDIMENT FILTER  
(EFFECTIVE DATE 8/29/11)

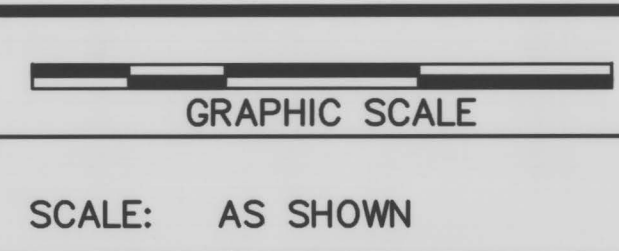


**FIGURE 11-16**  
STORMWATER MANUAL  
ROCK CHECK DAM  
(EFFECTIVE DATE 8/29/11)

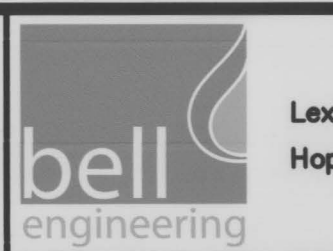
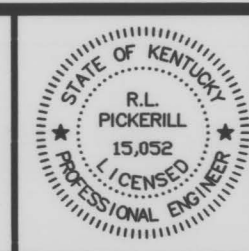


**FIGURE 11-17**  
STORMWATER MANUAL  
FIBER LOG CHECK DAM  
(EFFECTIVE DATE 8/29/11)

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EROSION & SEDIMENT CONTROL  
STANDARD DETAILS

DIVISION	CIVIL
CONTRACT NO.	600-048
DATE	MAY, 2015
SHEET NO.	C1.1

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**SITE DEMOLITION NOTES**

1. CONTRACTOR SHALL USE ALL MEANS NECESSARY TO PROTECT SURROUNDING FEATURES INCLUDING EXISTING BUILDINGS, PAVEMENT, VEGETATION, UTILITIES AND OTHER CONDITIONS THAT APPLY.
2. CONTRACTOR SHALL INSTALL BARRICADES, SIGNAGE AND OTHER MEASURES TO PROTECT THE PUBLIC, PEDESTRIANS AND VEHICLES DURING THE COURSE OF THE CONSTRUCTION PROJECT.
3. SEE LANDSCAPE PLANS IN REFERENCE TO EXISTING TREES TO BE RELOCATED.
4. SEE SITE UTILITY PLANS IN REFERENCE TO RELOCATING EXISTING LIGHT POLES AND OTHER ELECTRICAL FEATURES.

**LEGEND**

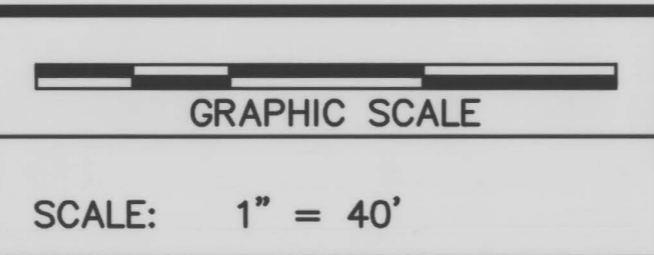
- /////// - DEMOLITION
- ⊙ B-1 - BORING LOCATION AND IDENTIFICATION

NOTE:  
SEE SHEETS L10 AND U10 FOR DEMOLITION BY OTHERS INCLUDED IN THE SOUTH CAMPUS PARKING LOT EXPANSION PROJECT.

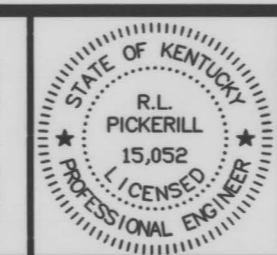
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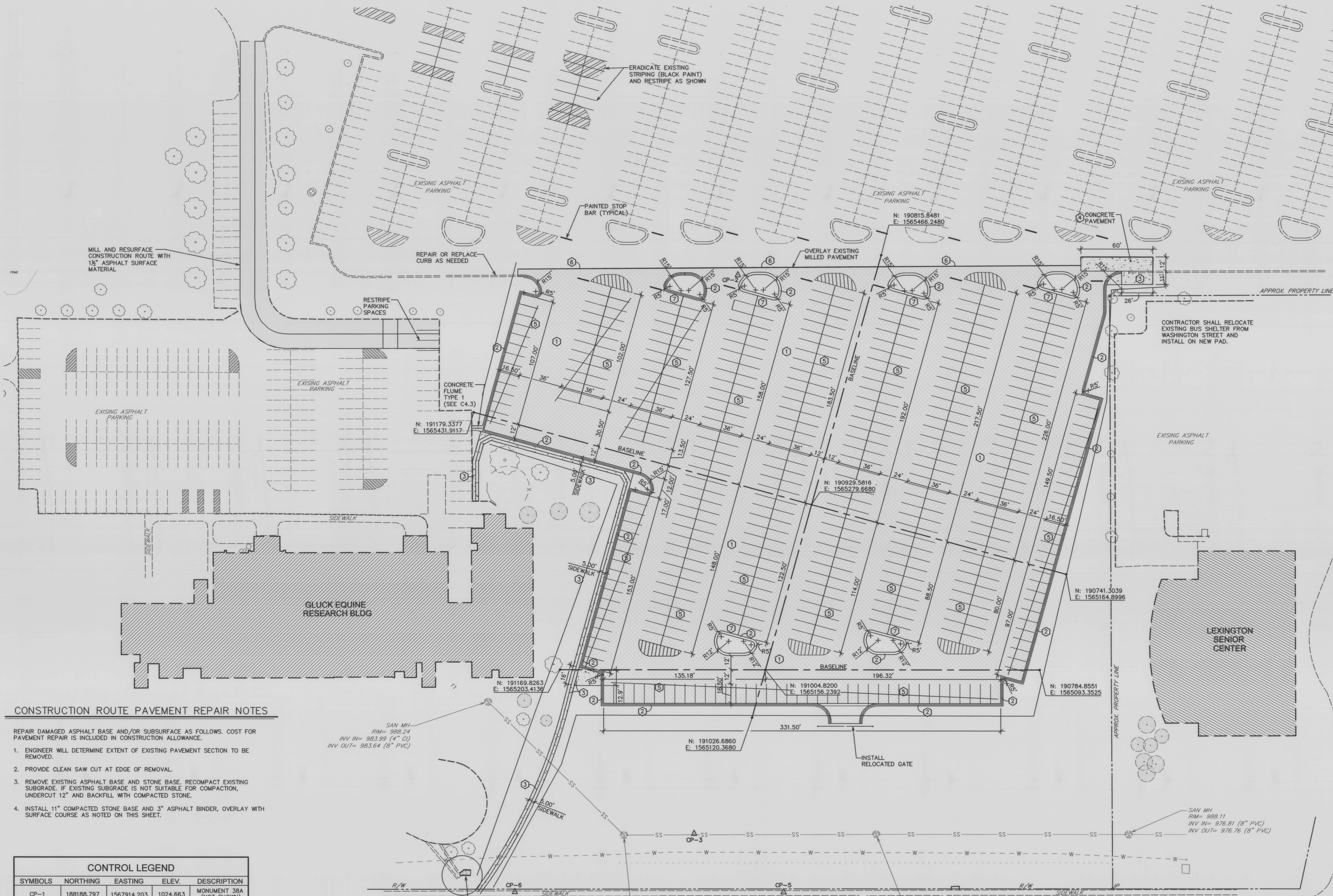
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**2422.0 SOUTH CAMPUS PARKING LOT EXPANSION**  
CAPITAL PROJECT MANAGEMENT DIVISION  
UNIVERSITY OF KENTUCKY  
LEXINGTON, KENTUCKY

<b>SITE DEMOLITION PLAN</b>	
DIVISION	CIVIL
CONTRACT NO.	600-048
DATE	MAY, 2015
SHEET NO.	C2.0



**CONSTRUCTION ROUTE PAVEMENT REPAIR NOTES**

- REPAIR DAMAGED ASPHALT BASE AND/OR SUBSURFACE AS FOLLOWS. COST FOR PAVEMENT REPAIR IS INCLUDED IN CONSTRUCTION ALLOWANCE.
- ENGINEER WILL DETERMINE EXTENT OF EXISTING PAVEMENT SECTION TO BE REMOVED.
  - PROVIDE CLEAN SAW CUT AT EDGE OF REMOVAL.
  - REMOVE EXISTING ASPHALT BASE AND STONE BASE. RECOMPACT EXISTING SUBGRADE. IF EXISTING SUBGRADE IS NOT SUITABLE FOR COMPACTION, UNDERCUT 12" AND BACKFILL WITH COMPACTED STONE.
  - INSTALL 11" COMPACTED STONE BASE AND 3" ASPHALT BINDER, OVERLAY WITH SURFACE COURSE AS NOTED ON THIS SHEET.

CONTROL LEGEND				
SYMBOLS	NORTHING	EASTING	ELEV.	DESCRIPTION
CP-1	188188.797	1567914.203	1024.663	MONUMENT 38A (NOT SHOWN)
CP-2	190935.595	1565482.956	990.905	PK NAIL
CP-3	191100.375	1565039.600	986.103	REBAR
CP-4	192844.013	1563741.137	978.349	MONUMENT 14B (NOT SHOWN)
CP-6	191042.140	1564971.491	983.847	PK NAIL
CP-7	191257.968	1565033.422	984.961	PK NAIL

**PARKING INFORMATION**  
514 (8.5' X 18') TOTAL SPACES

DETAIL LEGEND		
TAG	NAME	REFERENCE
①	ASPHALT PAVEMENT	SEE SHEET C3.1
②	CURB AND GUTTER	SEE SHEET C3.1
③	CONCRETE SIDEWALK	SEE SHEET C3.1
④	CONCRETE PAVEMENT	SEE SHEET C3.1
⑤	STRIPING DETAIL	SEE SHEET C3.1
⑥	PAVEMENT TRANSITION	SEE SHEET C3.1
⑦	CURB/ STRIPING DETAIL	SEE SHEET C3.1

**RECORD DRAWINGS**  
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DESIGNER	TFH	DATE	BY	REVISION
DRAWN	DJS			
CHECKED	?			
APPROVED	RLP			

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GRAPHIC SCALE  
SCALE: 1" = 40'

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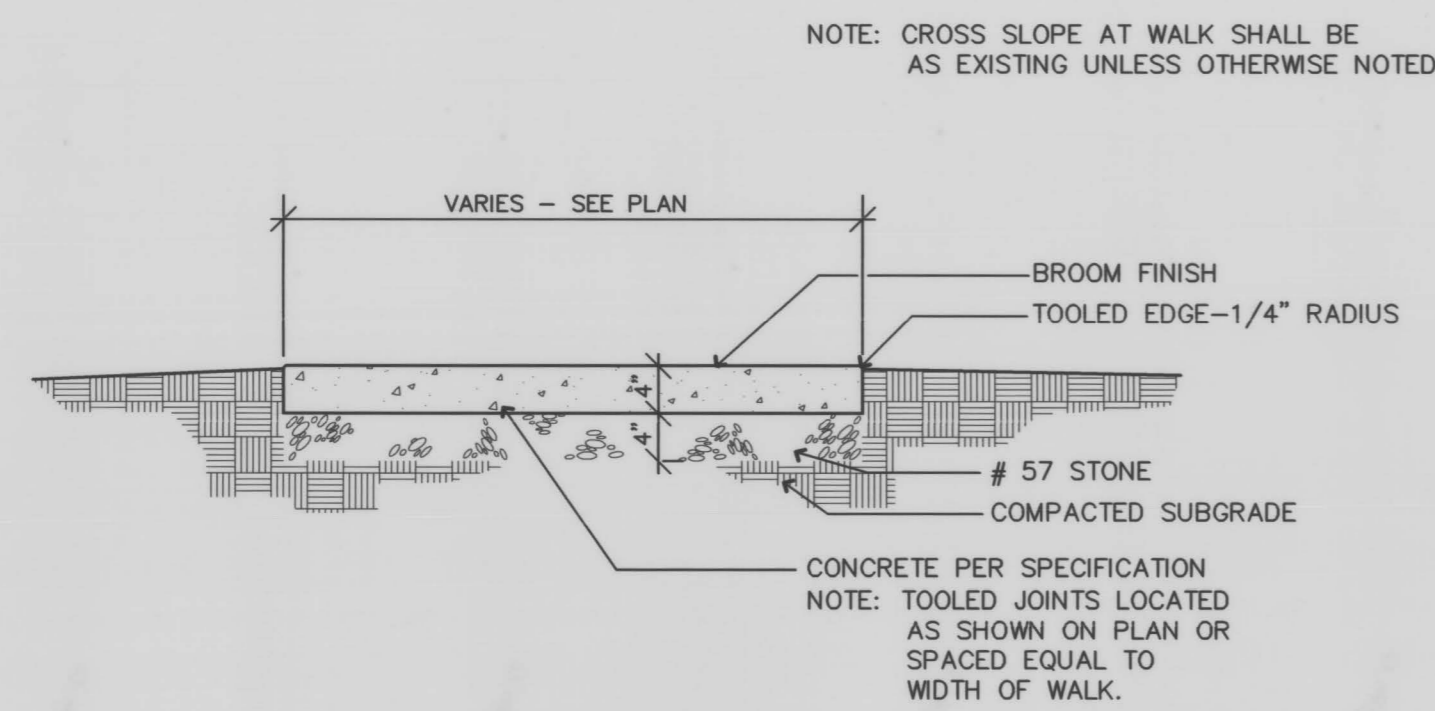
bell engineering

2422.0 SOUTH CAMPUS PARKING LOT EXPANSION  
CAPITAL PROJECT MANAGEMENT DIVISION  
UNIVERSITY OF KENTUCKY  
LEXINGTON, KENTUCKY

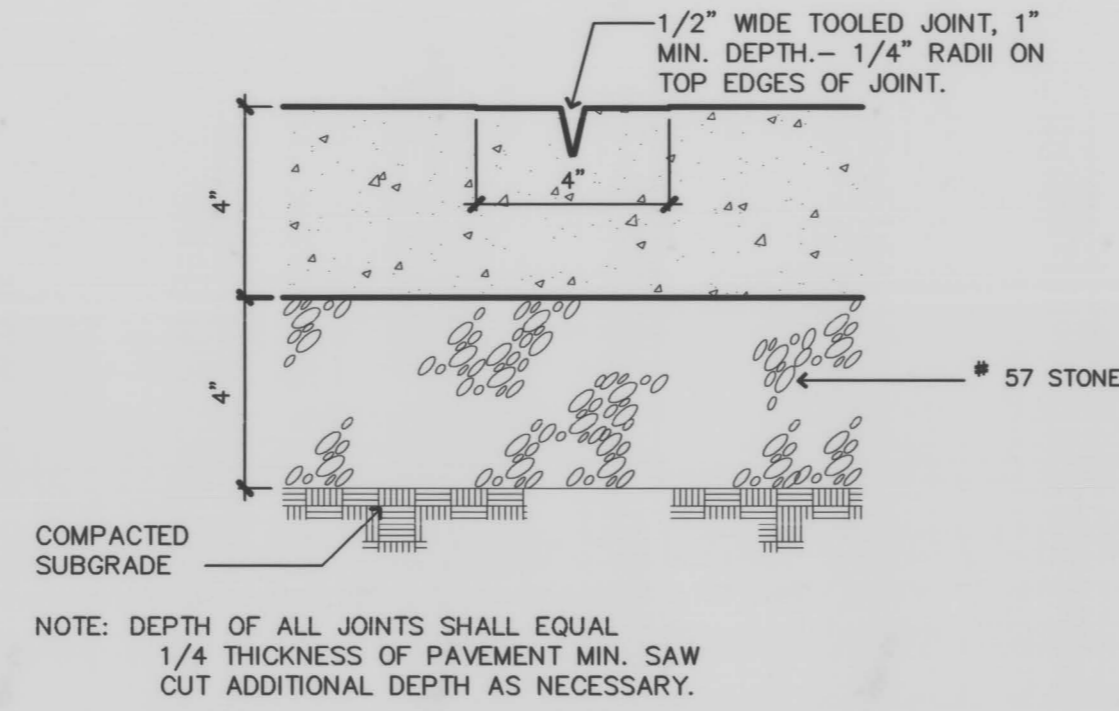
SITE LAYOUT PLAN

DIVISION	CIVIL
CONTRACT NO.	600-048
DATE	MAY, 2015
SHEET NO.	C3.0

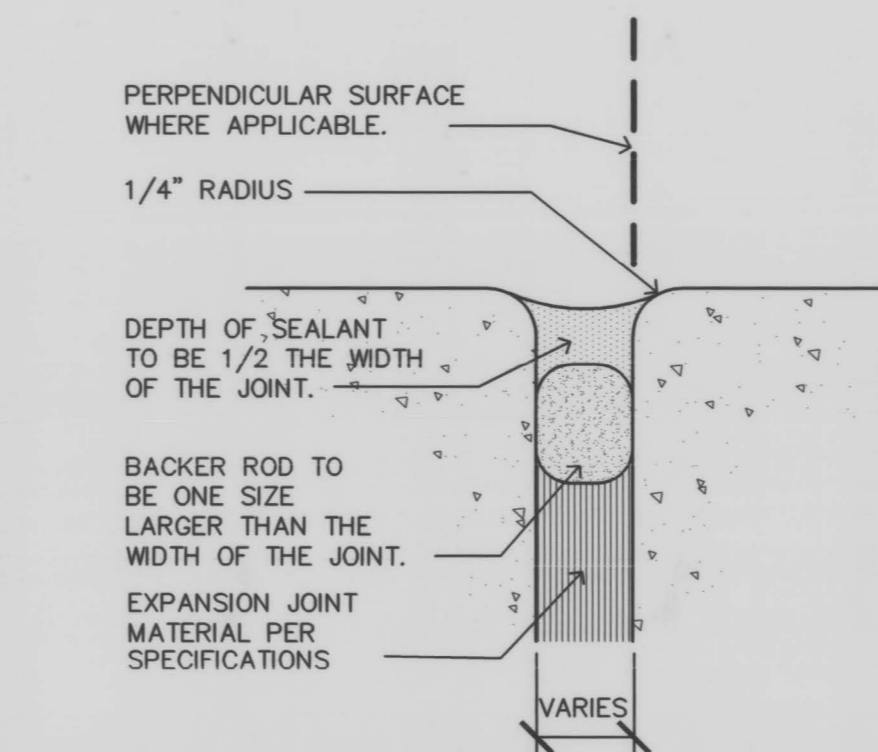
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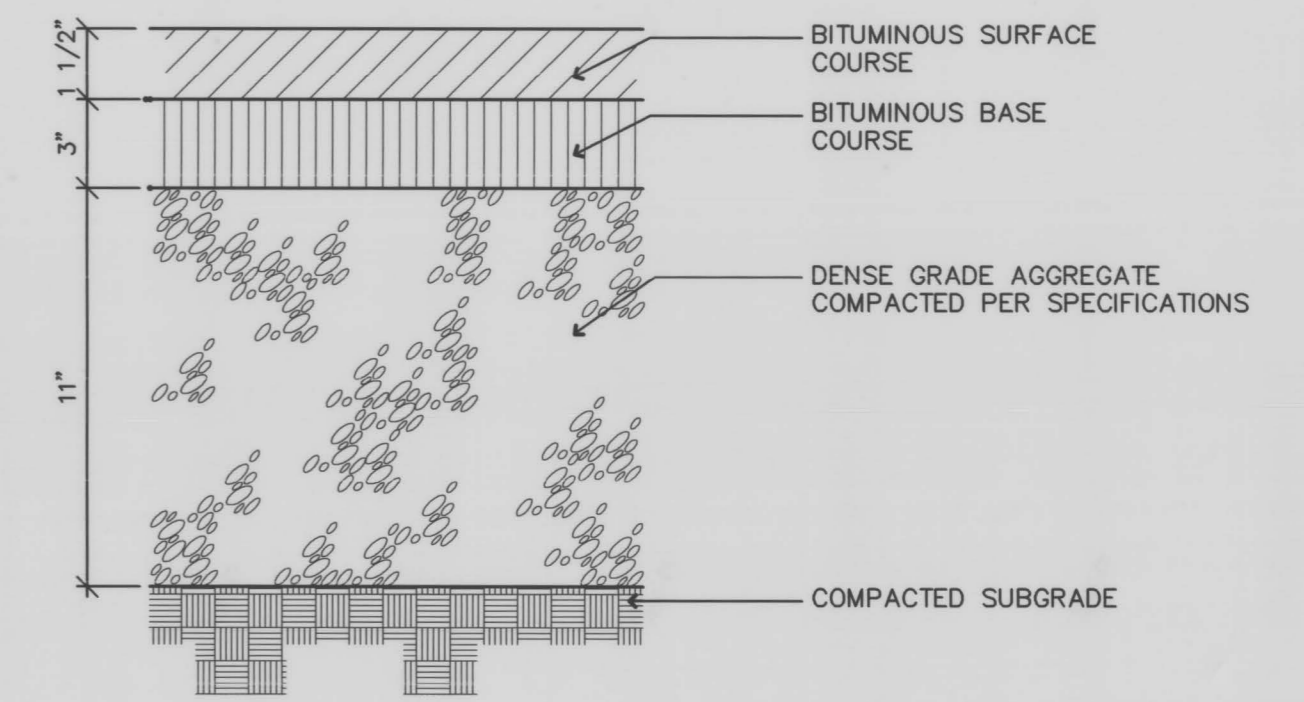
**CONCRETE WALK**  
N.T.S.



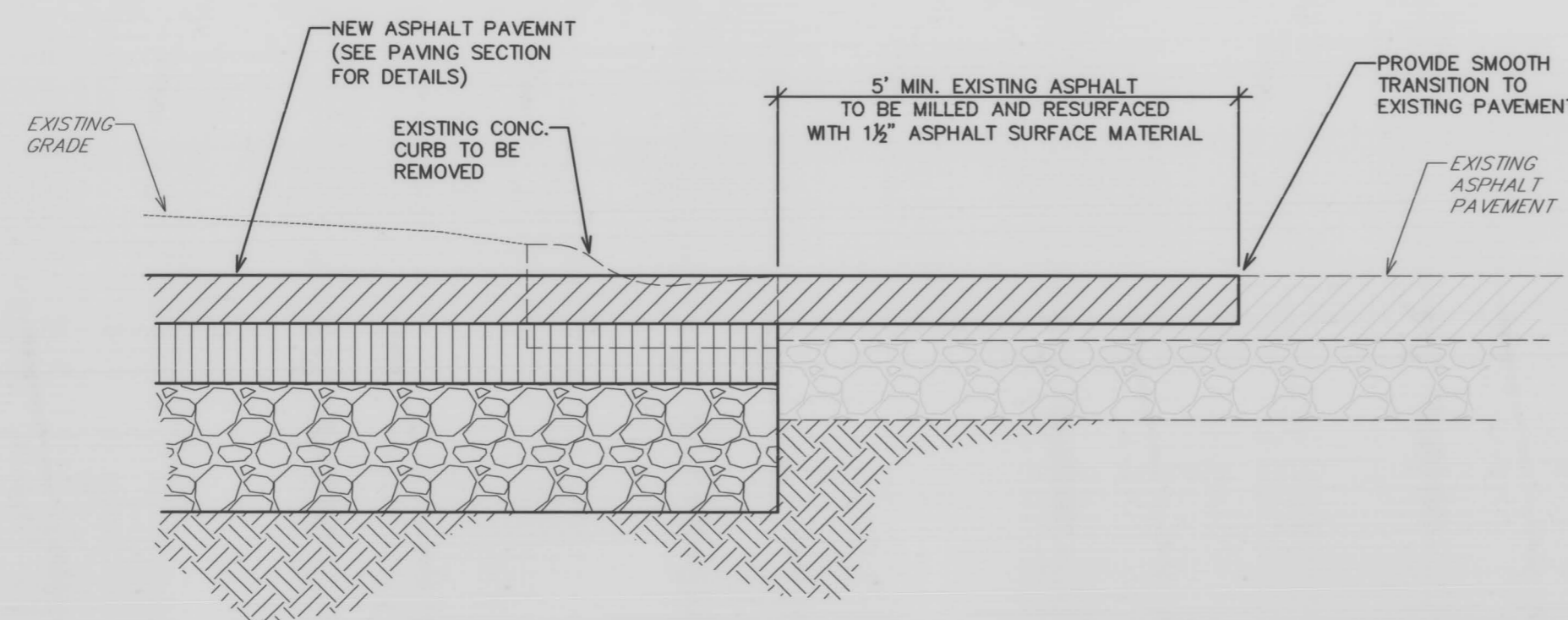
**TOOLED CONTROL JOINT**  
N.T.S.



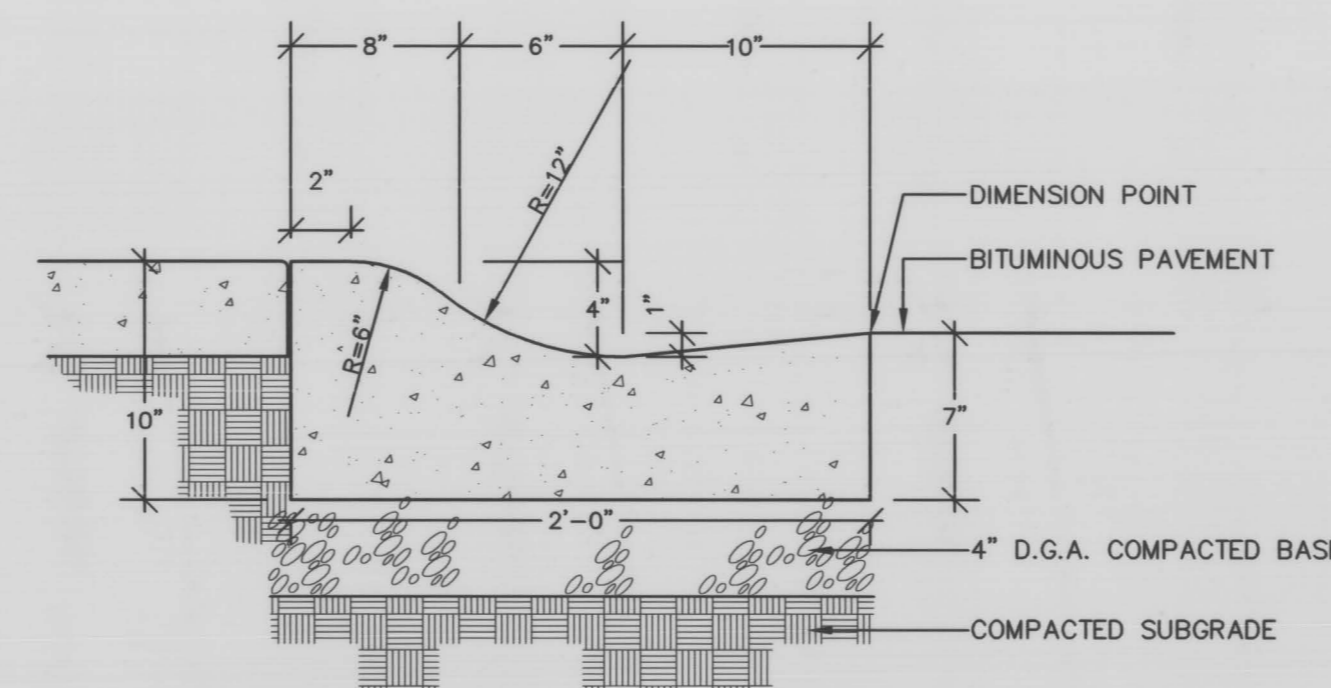
**EXPANSION JOINT**  
N.T.S.



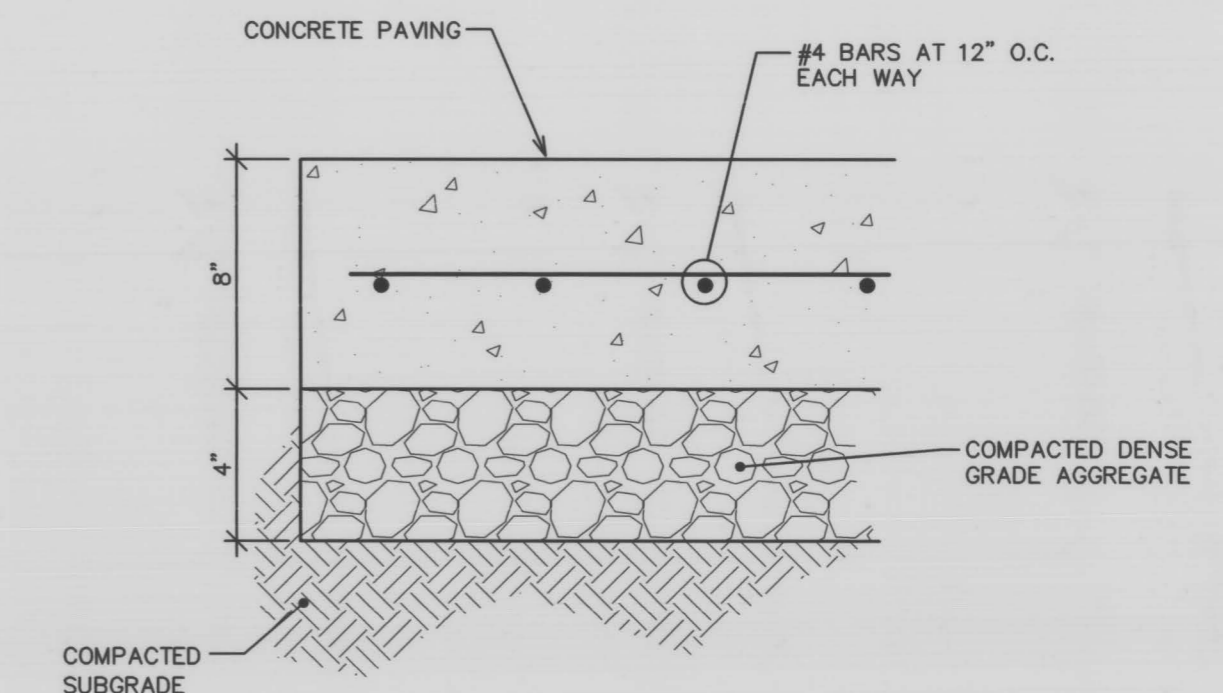
**BITUMINOUS PAVING**  
N.T.S.



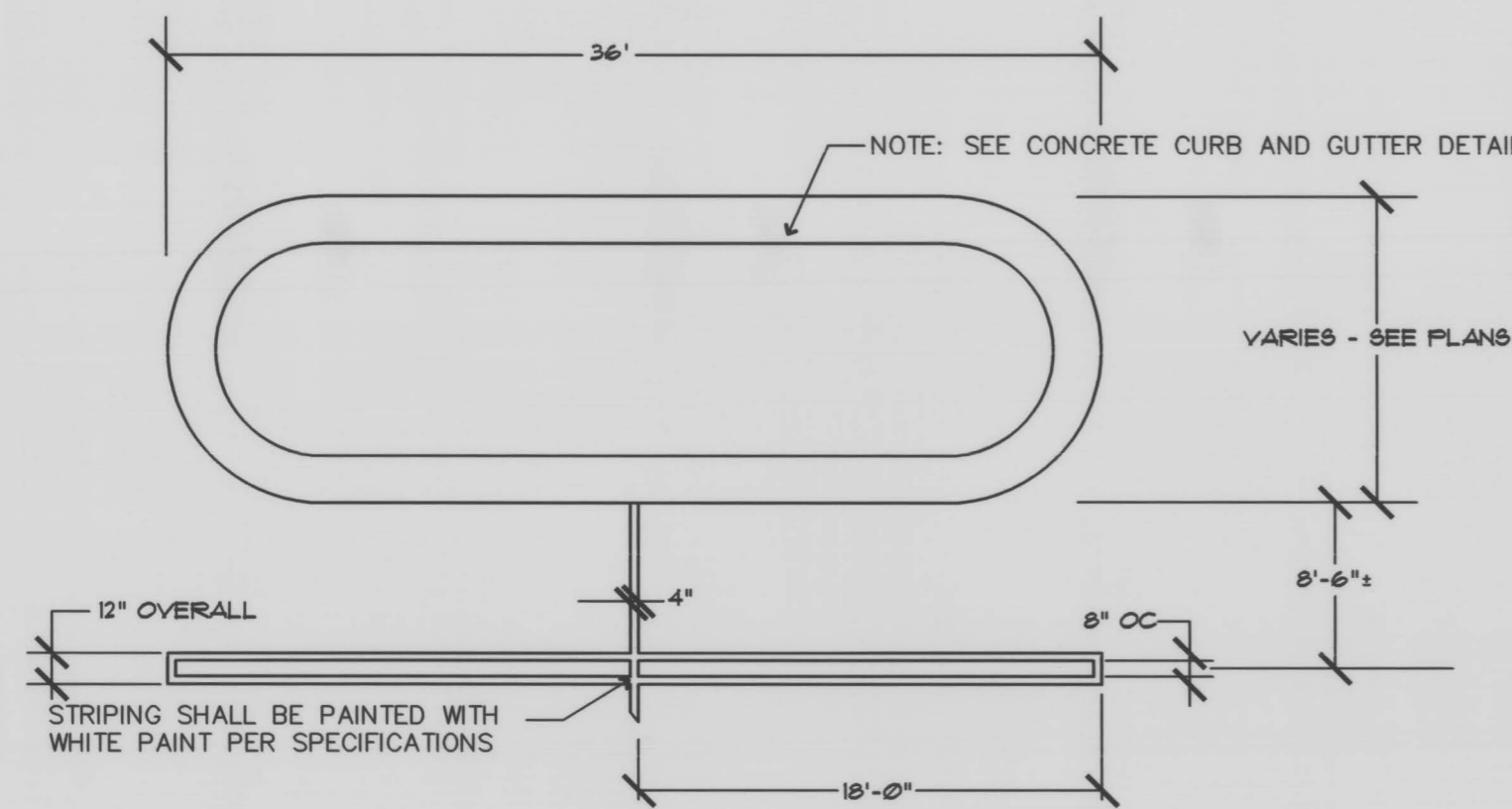
**PAVEMENT TRANSITION**  
N.T.S.



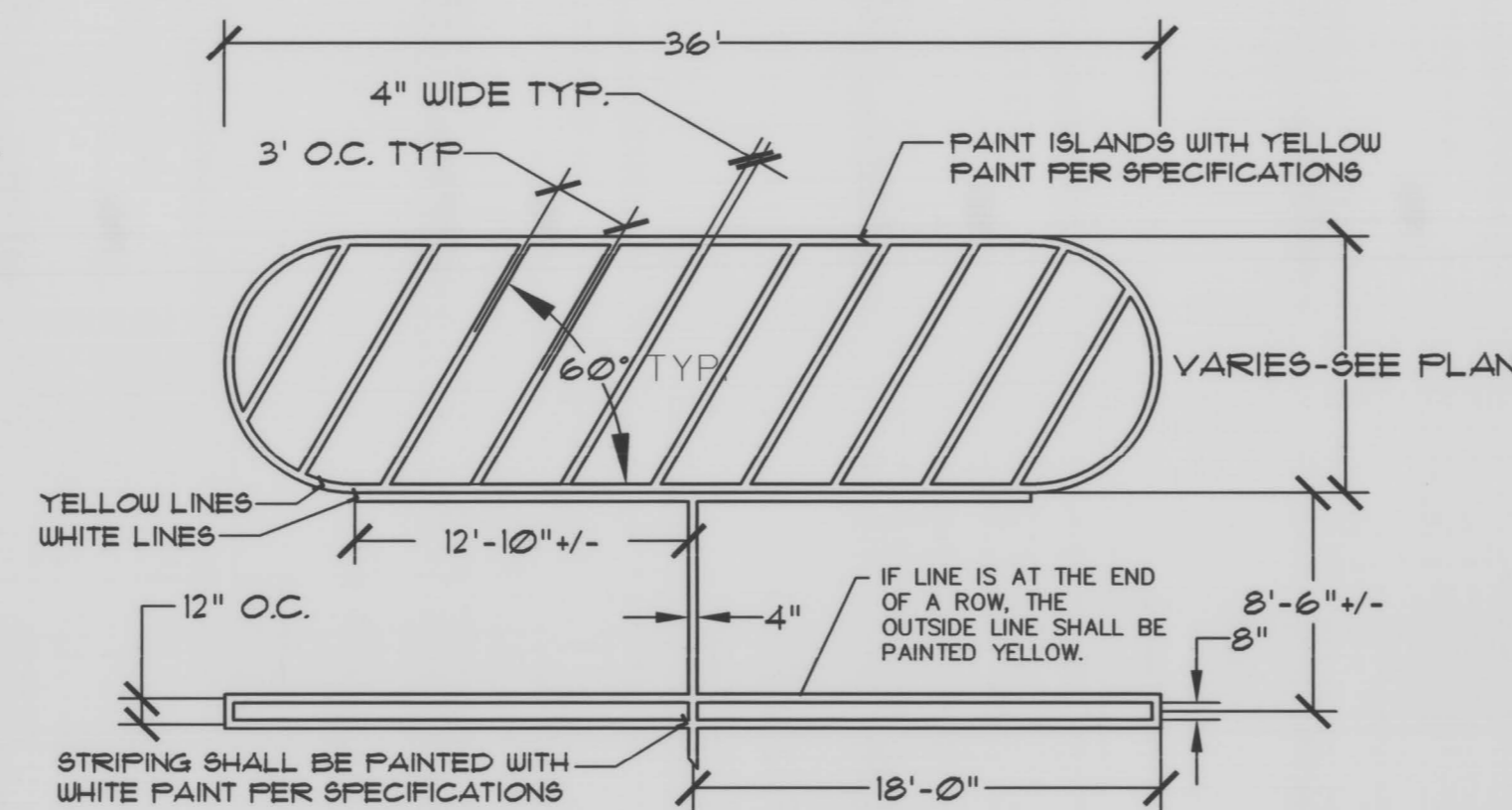
**RADIUS CONCRETE CURB & GUTTER**  
N.T.S.



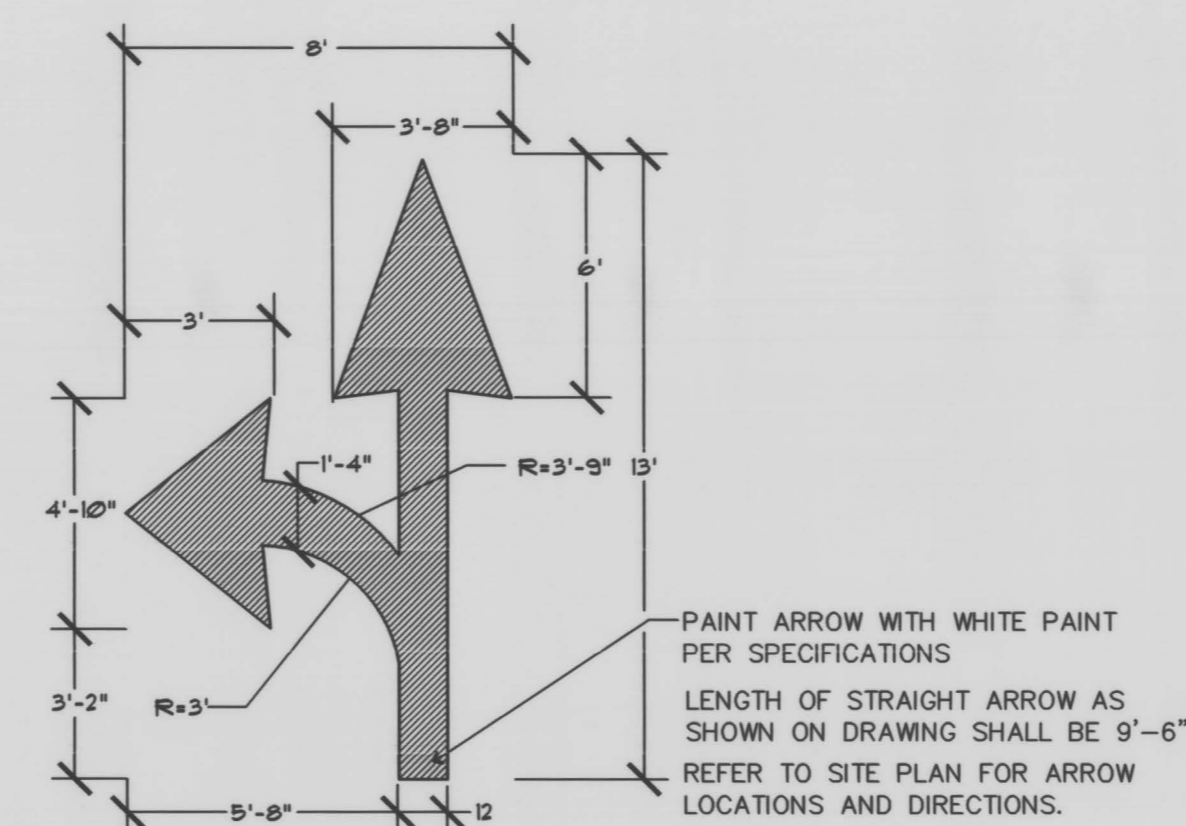
**CONCRETE PAVEMENT**  
N.T.S.



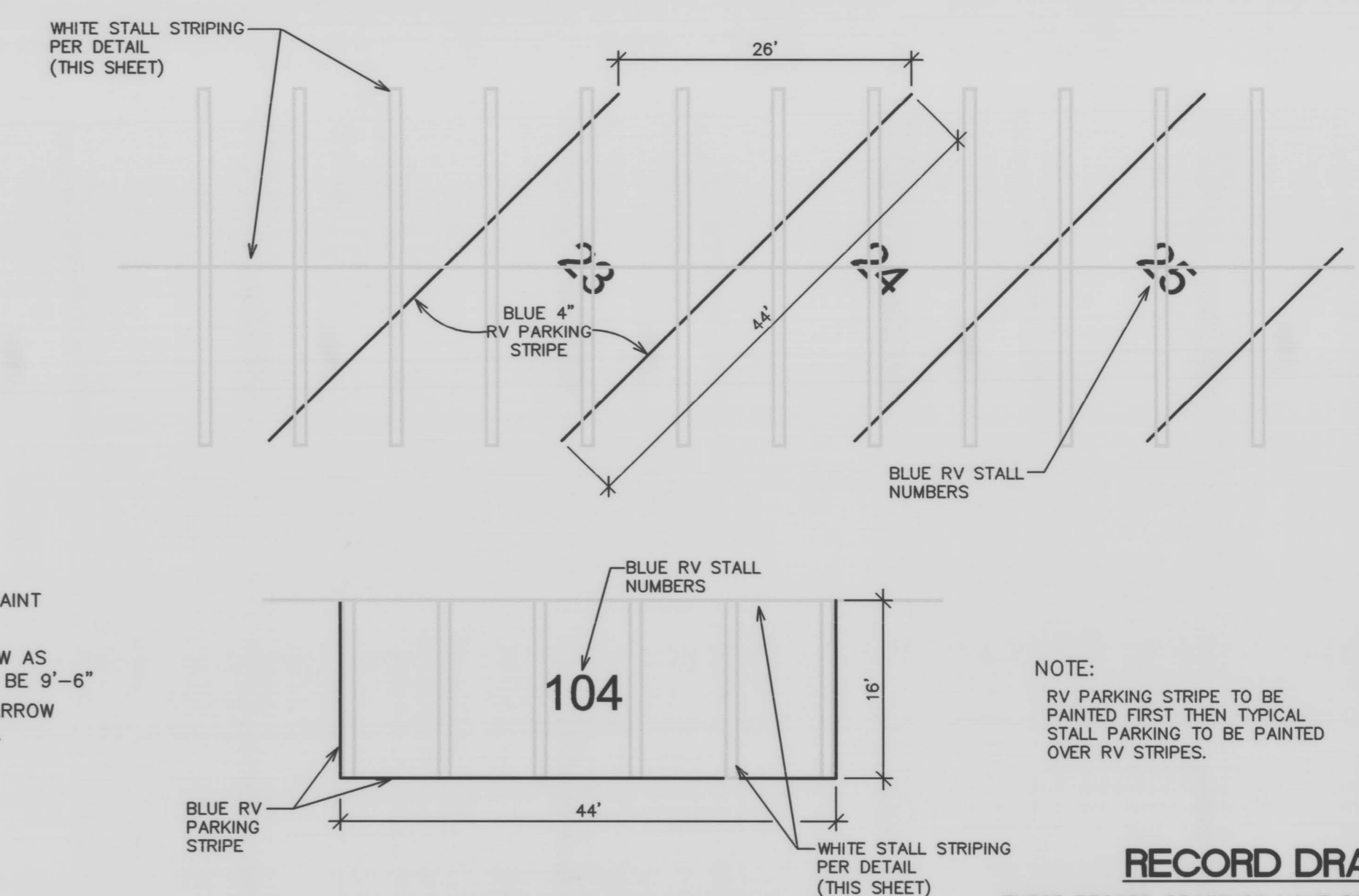
**CURB ISLAND & STALL STRIPING DETAIL**  
N.T.S.



**PAINTED ISLAND & STALL STRIPING DETAIL**  
N.T.S.



**TYP. DIRECTIONAL ARROW DETAIL**  
N.T.S.



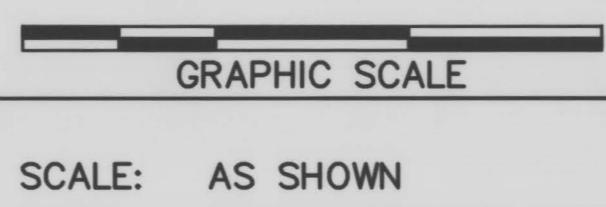
**RV PARKING**  
N.T.S.

NOTE:  
RV PARKING STRIPE TO BE PAINTED FIRST THEN TYPICAL STALL PARKING TO BE PAINTED OVER RV STRIPES.

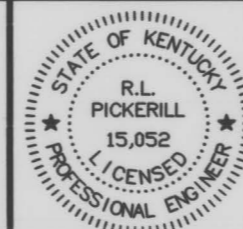
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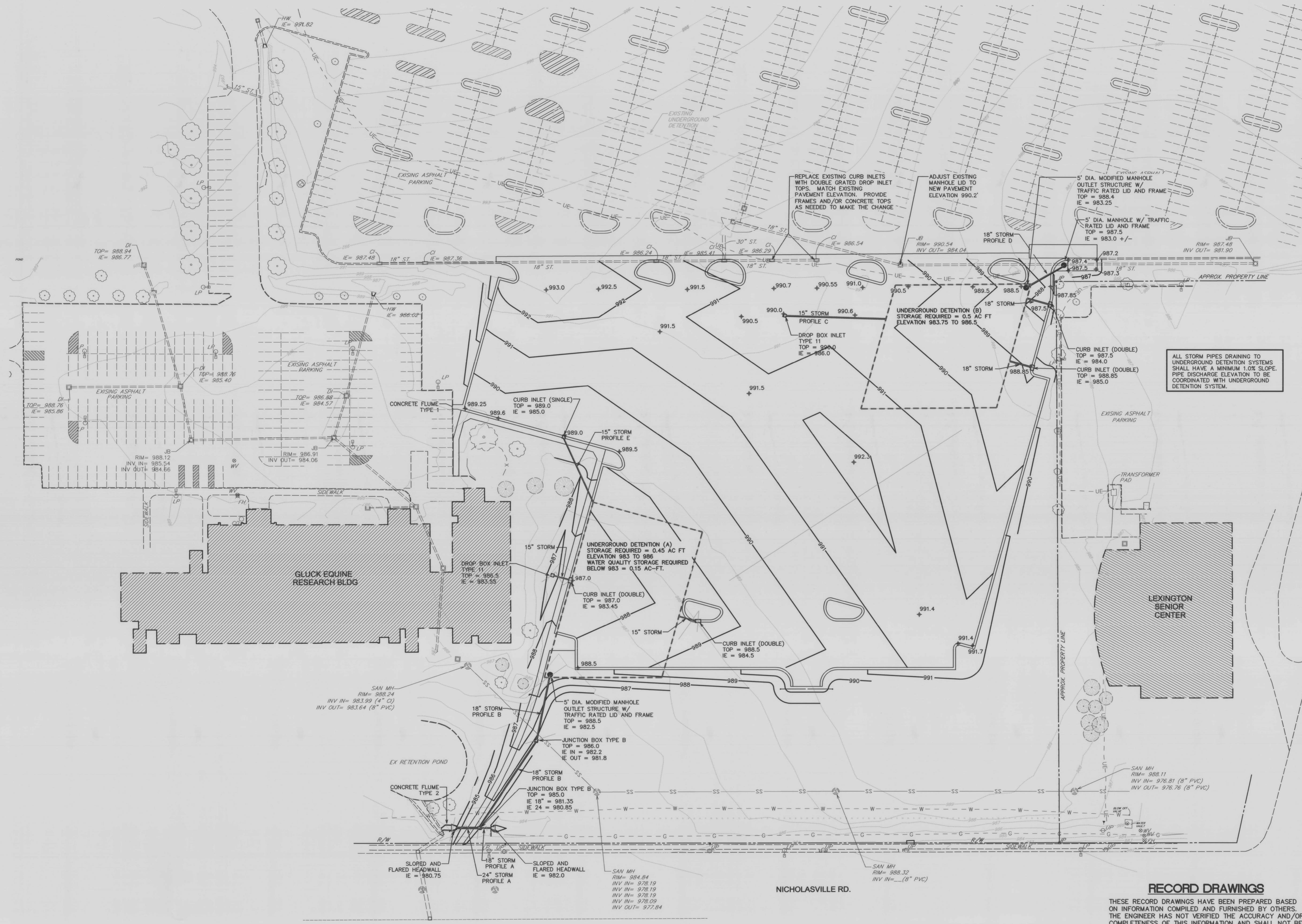


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CAPITAL PROJECT MANAGEMENT DIVISION  
UNIVERSITY OF KENTUCKY  
LEXINGTON, KENTUCKY

SITE LAYOUT  
DETAILS AND NOTES

DIVISION	CIVIL
CONTRACT NO.	600-048
DATE	MAY, 2015
SHEET NO.	C3.1

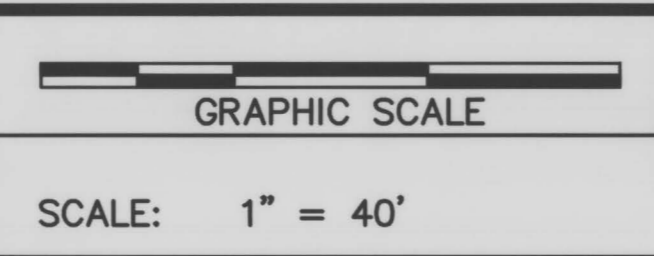


ALL STORM PIPES DRAINING TO UNDERGROUND DETENTION SYSTEMS SHALL HAVE A MINIMUM 1.0% SLOPE. PIPE DISCHARGE ELEVATION TO BE COORDINATED WITH UNDERGROUND DETENTION SYSTEM.

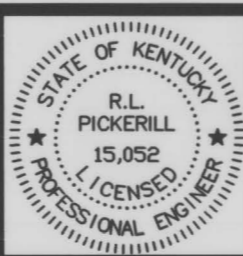
DETAIL LEGEND	
NAME	REFERENCE
CURB INLET (SINGLE)	SEE SHEET C4.3
CURB INLET (DOUBLE)	SEE SHEET C4.3
MANHOLE TYPE A	SEE SHEET C4.2
JUNCTION BOX TYPE B	SEE SHEET C4.2
DROP BOX INLET TYPE 11	SEE SHEET C4.2
CONCRETE HEADWALL	SEE SHEET C4.2
MODIFIED MANHOLE OUTLET STRUCTURE A	SEE SHEET C4.3
MODIFIED MANHOLE OUTLET STRUCTURE B	SEE SHEET C4.3
CONCRETE FLUME TYPE 1	SEE SHEET C4.3
CONCRETE FLUME TYPE 2	SEE SHEET C4.3

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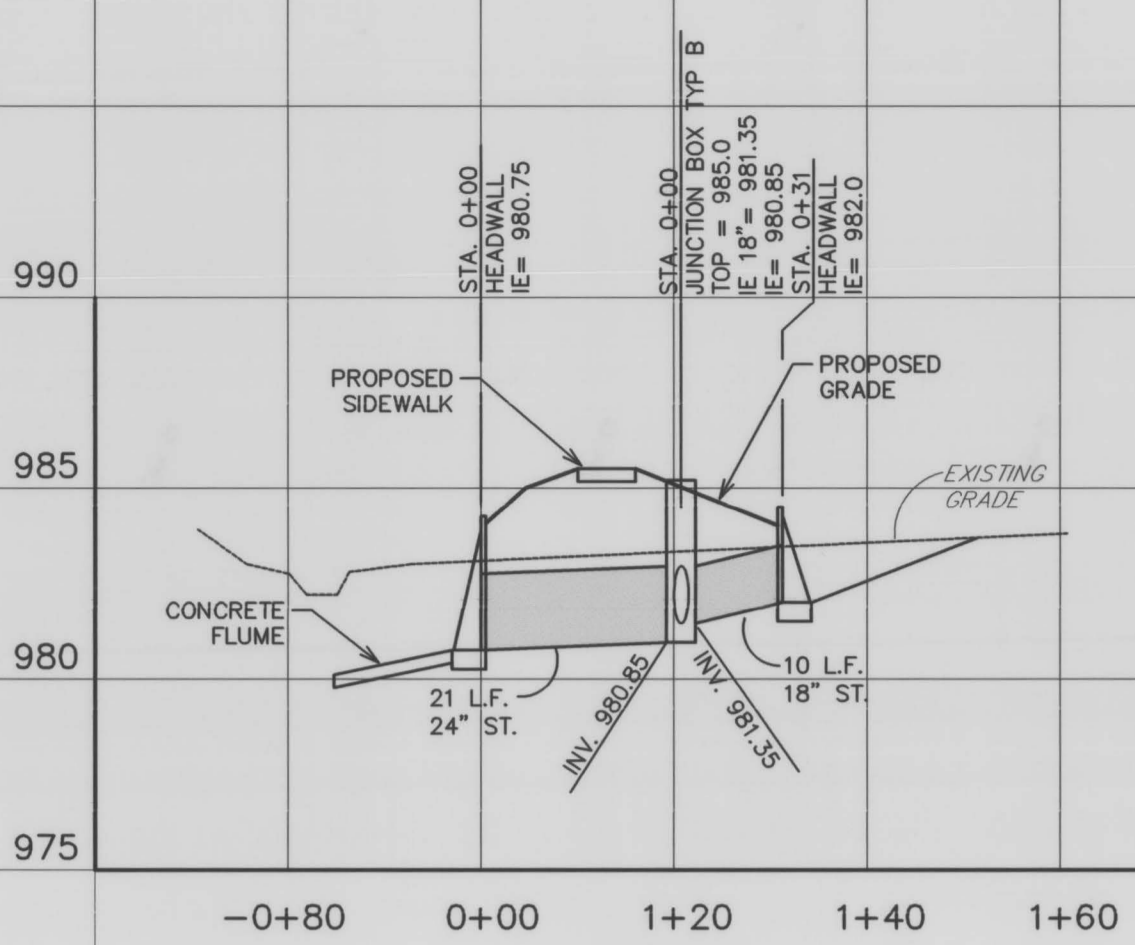
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 CAPITAL PROJECT MANAGEMENT DIVISION  
 UNIVERSITY OF KENTUCKY  
 LEXINGTON, KENTUCKY

SITE GRADING PLAN

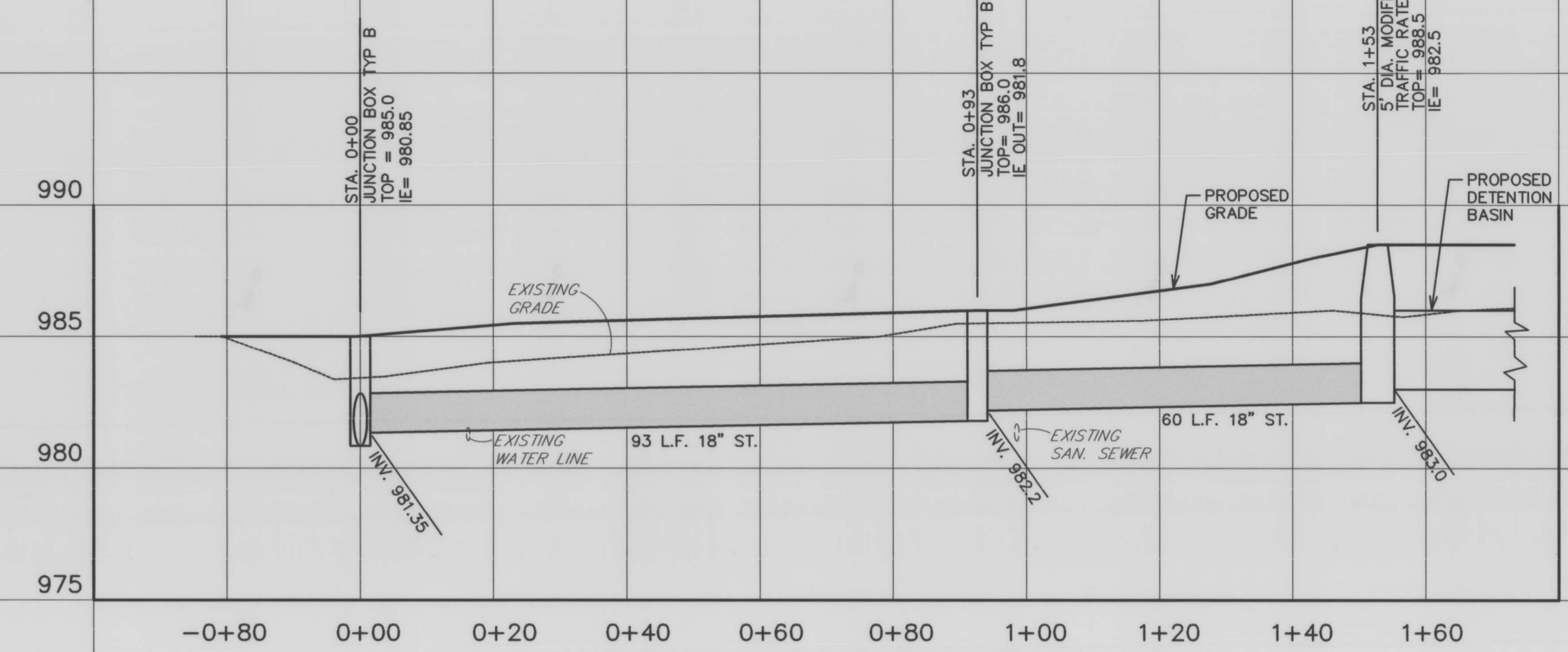
DIVISION	CIVIL
CONTRACT NO.	600-048
DATE	MAY, 2015
SHEET NO.	C4.0

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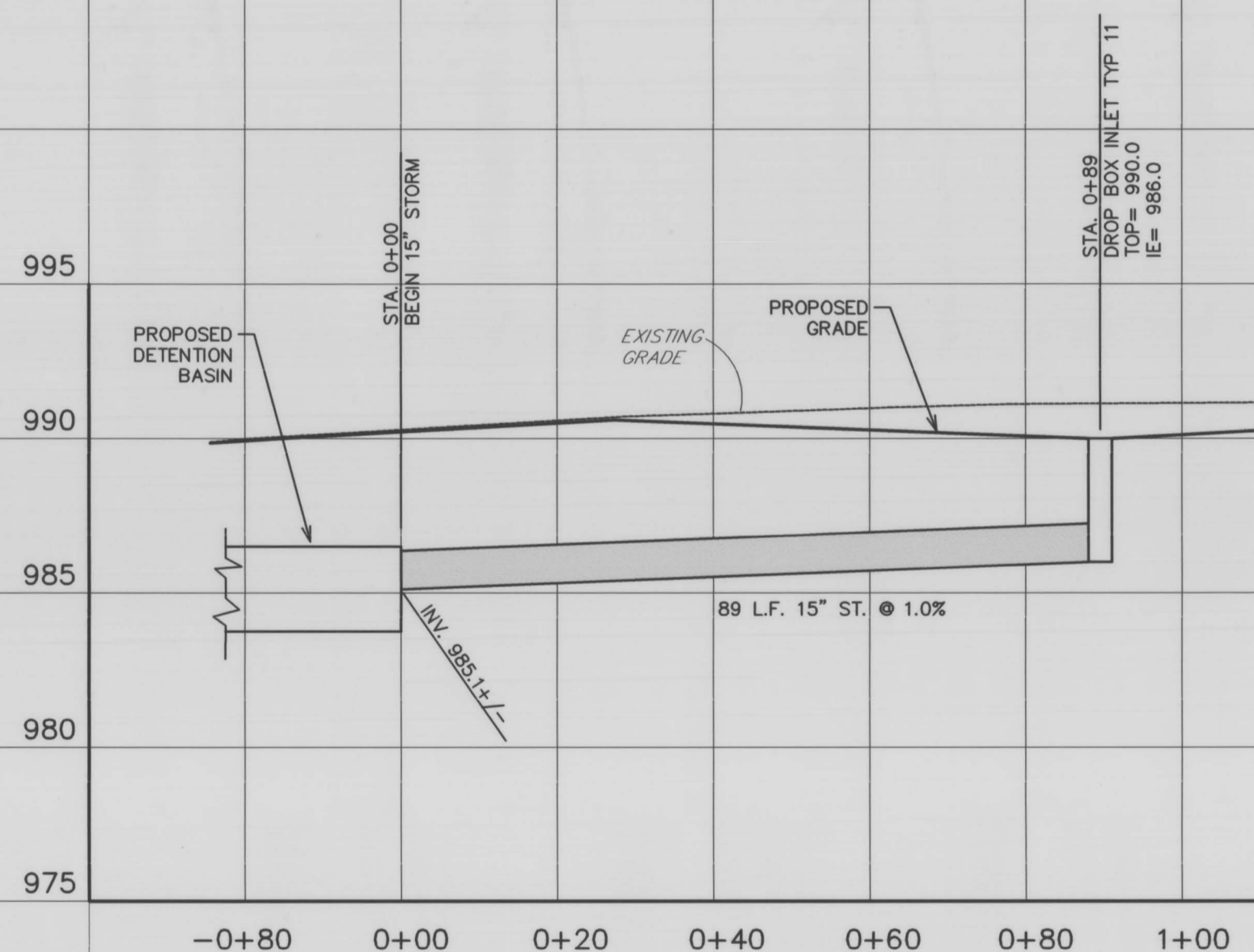




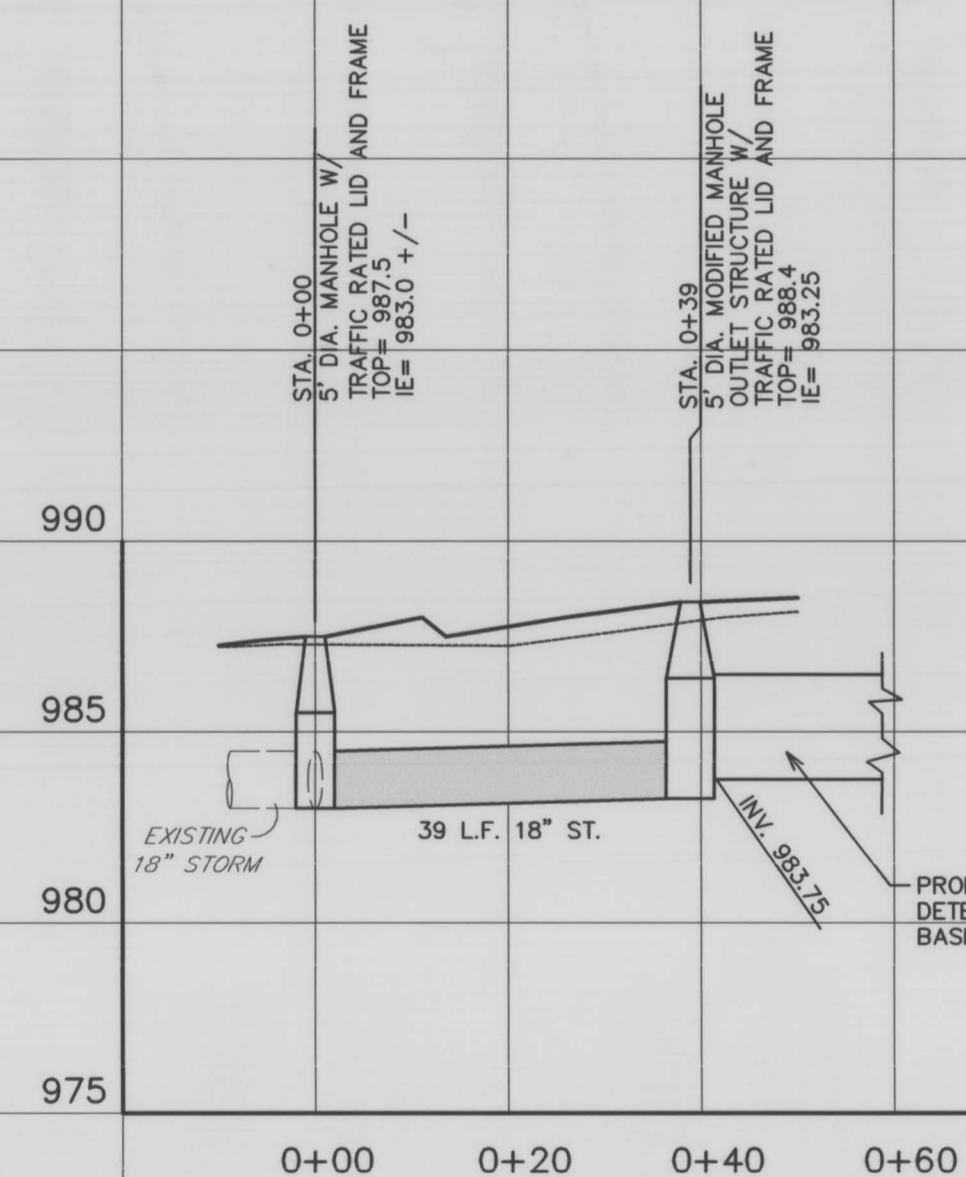
PROFILE A



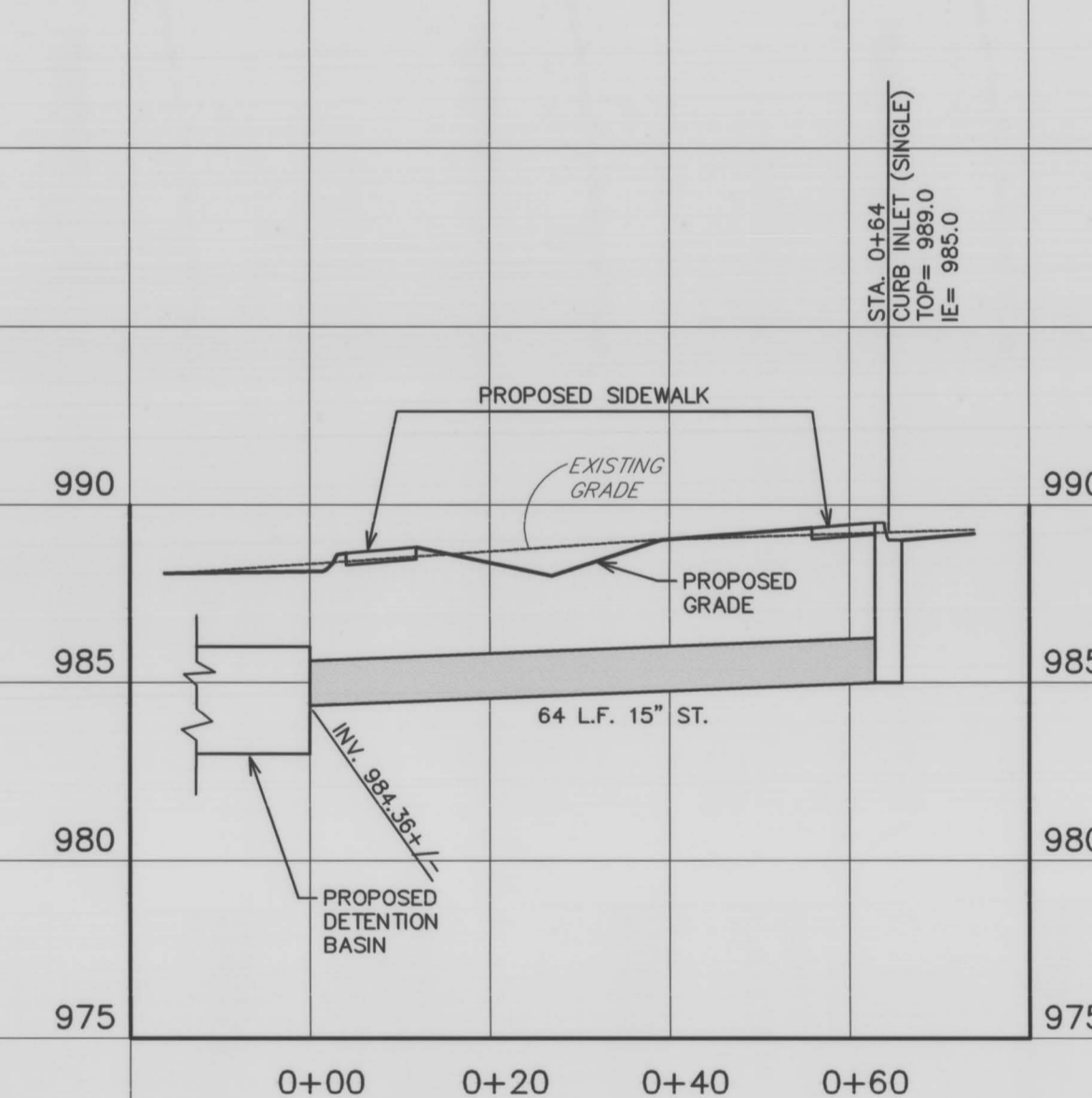
PROFILE B



PROFILE C



PROFILE D

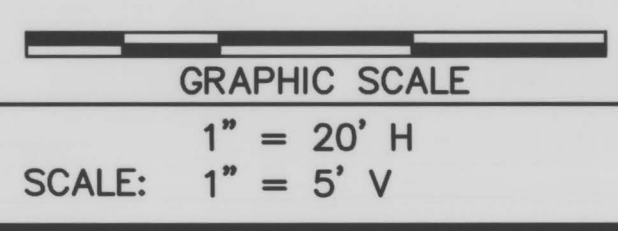


PROFILE E

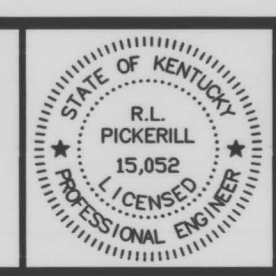
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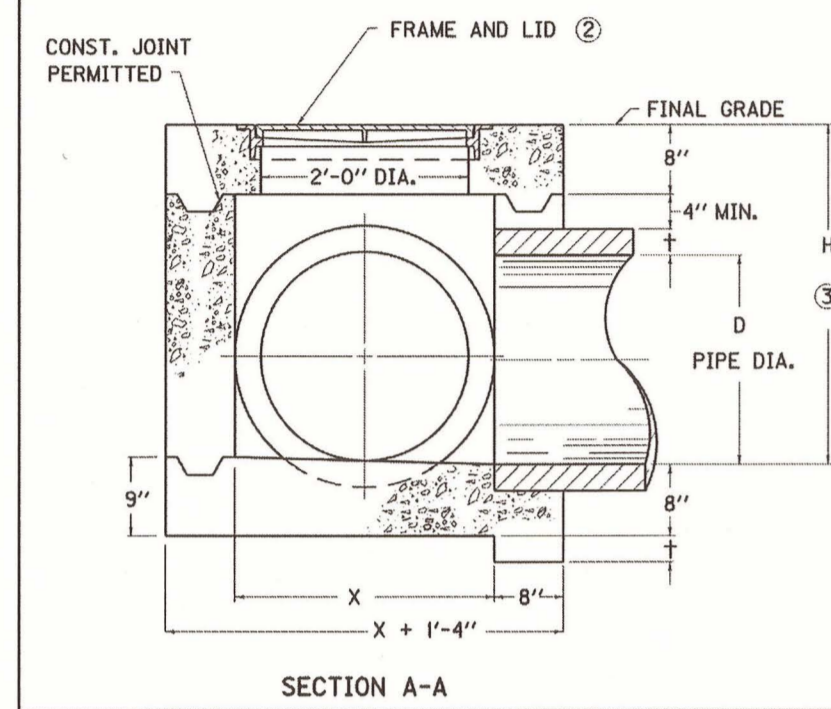
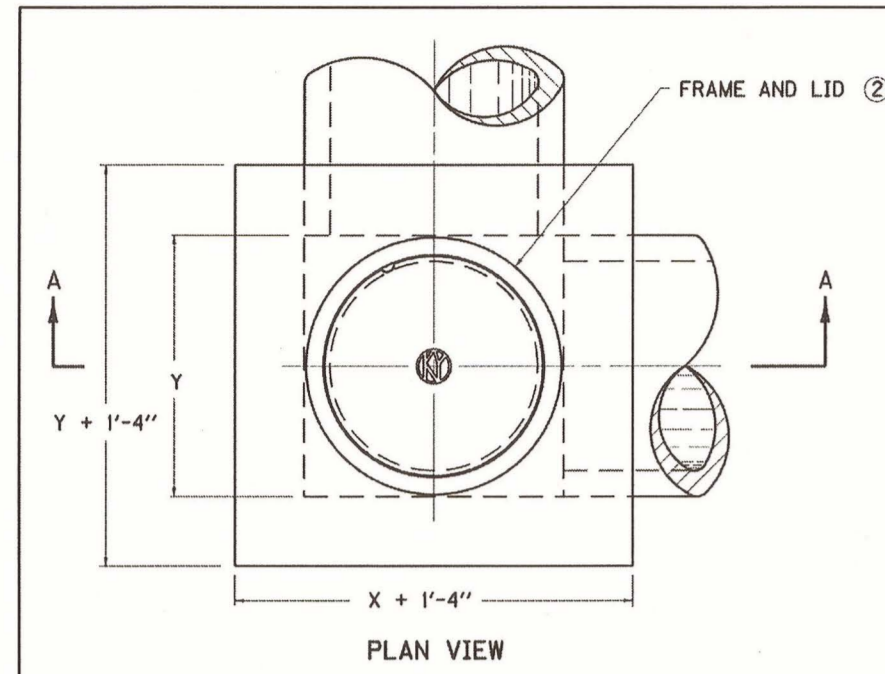
2422.0 SOUTH CAMPUS PARKING LOT EXPANSION  
CAPITAL PROJECT MANAGEMENT DIVISION  
UNIVERSITY OF KENTUCKY  
LEXINGTON, KENTUCKY

**DRAINAGE PROFILES**

DIVISION	CIVIL
CONTRACT NO.	600-048
DATE	MAY, 2015
SHEET NO.	C4.1

T:\UK\600-048 South Campus Lot Expansion\Record Drawings\South Campus Expansion\C4.1 profiles.dwg, 1/28/2016 10:35:52 AM, Doug

15-A-3



- NOTES
- THE CONTRACT UNIT PRICE EACH SHALL INCLUDE PAYMENT IN FULL FOR EXCAVATION, LABOR, FRAME AND LID, CONCRETE, AND ALL OTHER INCIDENTALS NECESSARY TO COMPLETE THE WORK.
  - ITEM: JUNCTION BOX TYPE B (★)  
(★) = 1" FRAME AND LID TYPE 1  
(★) = 2" FRAME AND LID TYPE 2
  - WHEN THIS BOX IS TO BE USED IN NON-VEHICULAR TRAFFIC AREAS SEE CURRENT STD. DWG. RDM-100 "FRAME AND LID TYPE 1".  
WHEN THIS BOX IS TO BE USED IN VEHICULAR TRAFFIC AREAS SEE CURRENT STD. DWG. RDM-105 "FRAME AND LID TYPE 2".
  - THE MAXIMUM DEPTH OF BOX FROM FINAL GRADE TO FLOW LINE OF PIPE SHALL BE 8'-0". ANY BOXES DEEPER THAN 8'-0" SHALL BE SPECIFICALLY DESIGNED.
  - BASED ON H AS EQUAL TO D + 1'-0".
  - Q = CUBIC YARDS OF CONCRETE PER FOOT INCREASE OR DECREASE WHEN H VARIES FROM D + 1'-0".
  - NO DEDUCTIONS HAVE BEEN MADE FOR PIPE, SEE REFERENCE CHART FOR QUANTITIES TO DEDUCT.
  - THE DIMENSIONS AND QUANTITIES HAVE BEEN CALCULATED FOR ROUND CONCRETE PIPE. WHEN NON-CIRCULAR PIPE IS USED THE BOX SIZE SHALL BE DETERMINED BY CONTROLLING DIMENSIONS OF THE PIPE.
  - FOR THIS APPLICATION THE "X" DIMENSION IS ASSUMED TO BE EQUAL TO OR GREATER THAN THE "Y" DIMENSION.
  - THE BOX SIZE NUMBER TO BE SHOWN ON THE PLANS SHALL BE DETERMINED BY THE LARGEST PIPE IN THE "X" AND "Y" DIMENSION.

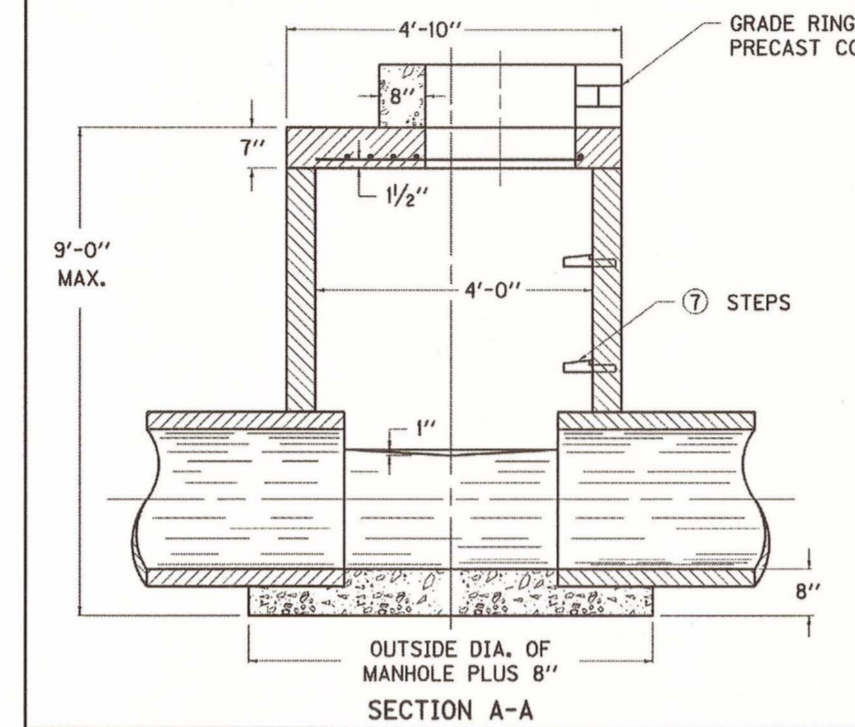
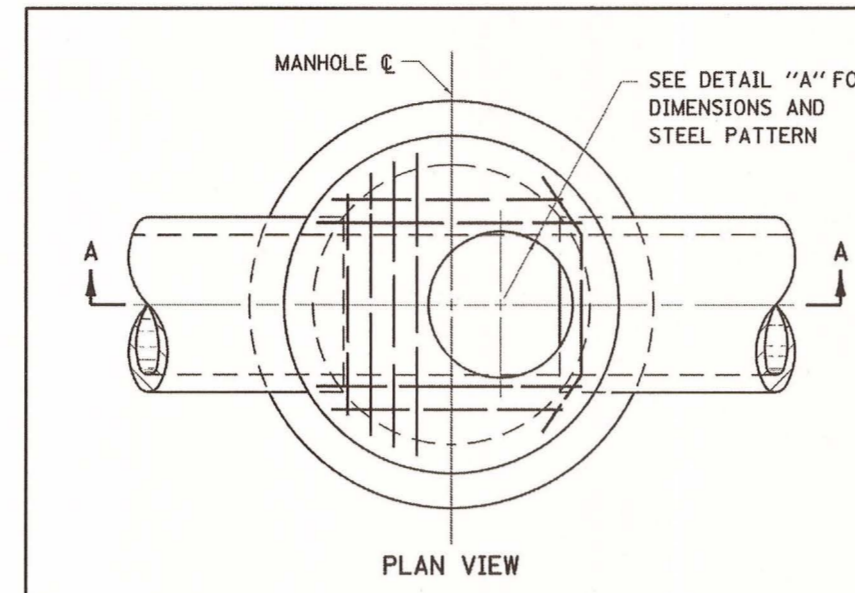
DIMENSIONS & ESTIMATE OF QUANTITIES

INLET SIZE NO.	X	Y	PIPE MAX. DIA.	CONCRETE CUBIC YARDS	REFIN. STEEL LBS.
1	2'-0"	2'-0"	12"	0.99	0.91
2	2'-0"	2'-0"	15"	1.06	0.98
3	2'-0"	2'-0"	18"	1.13	1.05
4	2'-6"	2'-6"	21"	1.44	1.27
5	2'-6"	2'-6"	24"	1.60	1.43
6	2'-6"	2'-6"	27"	1.88	1.36
7	2'-6"	2'-6"	30"	2.04	1.52

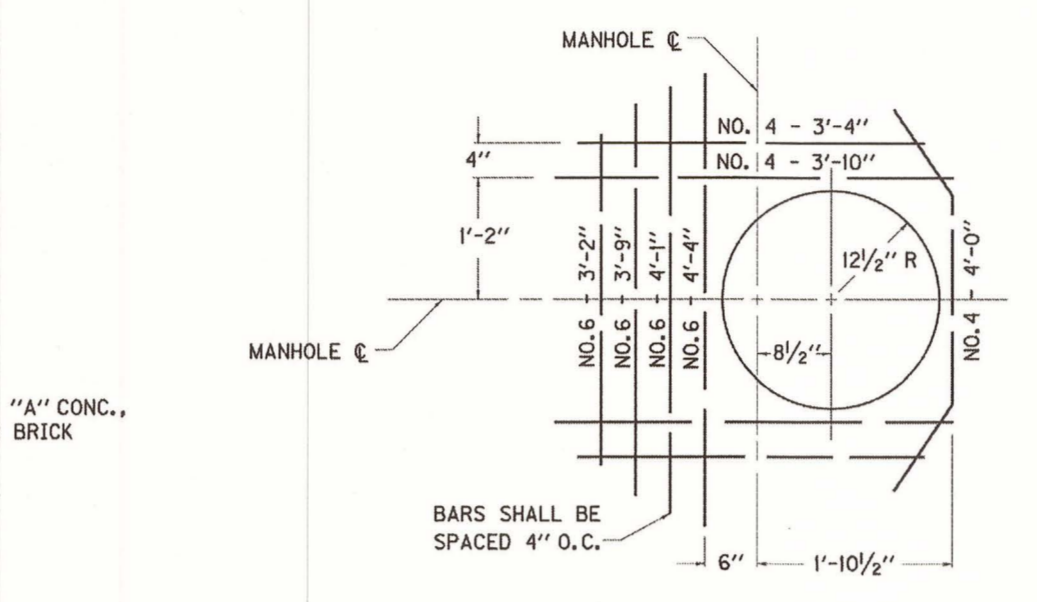
REFERENCE CHART

DIA. OF PIPE	JUNCTION BOX "X" SIDE OF BOX	CONCRETE TO DEDUCT FOR EACH PIPE CUBIC YARDS	
0	2'-0"	2'-0"	---
12"	2'-0"	2'-0"	0.1
15"-18"	2'-6"	2'-6"	---
21"-24"	2'-6"	2'-6"	---

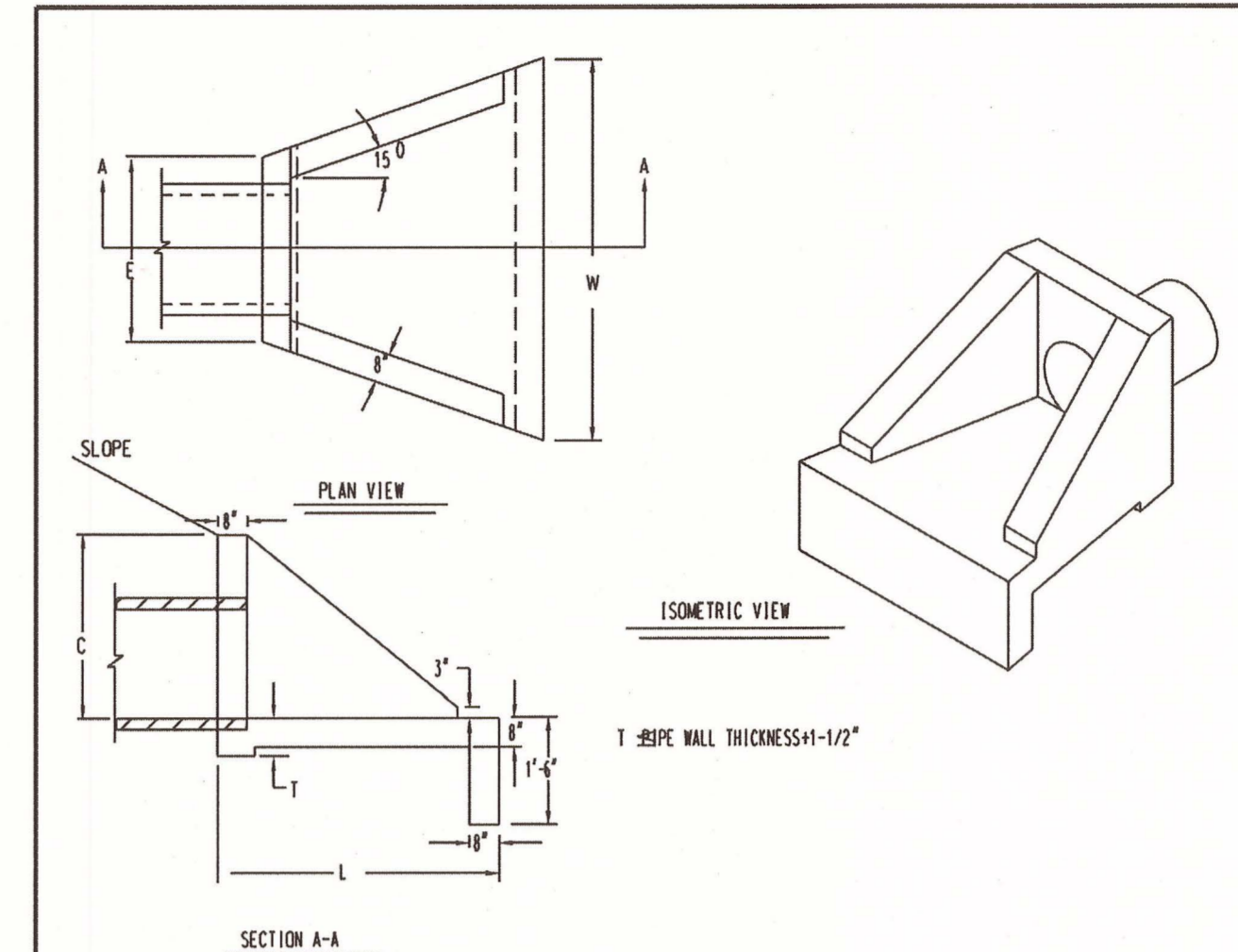
KENTUCKY DEPARTMENT OF HIGHWAYS  
JUNCTION BOX TYPE B ★  
STANDARD DRAWING NO. RDX-005-02  
DATE: 12-1-99  
APPROVED: [Signature]



- NOTES
- SEE CURRENT STD. DWG. RDM-105 FOR CASTINGS TO BE USED IN TRAFFIC AREAS AND CURRENT STD. DWG. RDM-100 FOR CASTINGS TO BE USED IN NON-TRAFFIC AREAS.
  - THE RISER SECTION MAY BE PRECAST CONCRETE PIPE OR CAST-IN-PLACE CONCRETE. A CONCENTRIC CAST-IN-PLACE CONE OR PRECAST CONCRETE CONE MAY BE PERMITTED, PROVIDED HEIGHT LIMITATIONS WOULD PERMIT.
  - THE MAXIMUM SIZE OF INTERCEPTED PIPE SHALL BE 27".
  - COVER OVER HIGHEST PIPE, EXCLUSIVE OF PAVEMENT, SHALL BE 2'-0".
  - CAST-IN-PLACE CONCRETE MANHOLES SHALL HAVE 8" THICK WALLS.
  - SEE PROPOSAL NOTES OR STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
  - SEE CURRENT STD. DWG. RDB-130 FOR STEP TYPE, SPACING AND DETAIL.



KENTUCKY DEPARTMENT OF HIGHWAYS  
MANHOLE TYPE A  
STANDARD DRAWING NO. RDM-001-06  
DATE: 12-1-99  
APPROVED: [Signature]



DIMENSIONS

PIPE DIA.	C	L	W	E	WEIGHT
12" x 15"	2'-4"	4'-4"	4'-4"	2'-4"	3,000lbs.
18"	2'-3"	4'-4"	5'-3"	3'-4"	3,760lbs.
24"	2'-9"	5'-4"	6'-4"	3'-4"	5,400lbs.

GENERAL NOTES:  
1. # 4 REBAR 12" C.C. E.L. W/ GRADE 60  
2. 3/4" CHAMFER ON ALL EXPOSED EDGES  
3. CONCRETE 4500PSI @ 28 DAYS  
4. 2" CONCRETE COVER  
5. CONFORM TO KDDH STD. DRAWING NO. RDB-020-03

AVAILABLE MARKETS: KY  
SHERMANDIXIE  
PH: 1-800-737-0707 DWG: ET-236  
DATE: 10/21/06 SHEET: 1 OF 1

DIMENSIONS AND ESTIMATE OF QUANTITIES

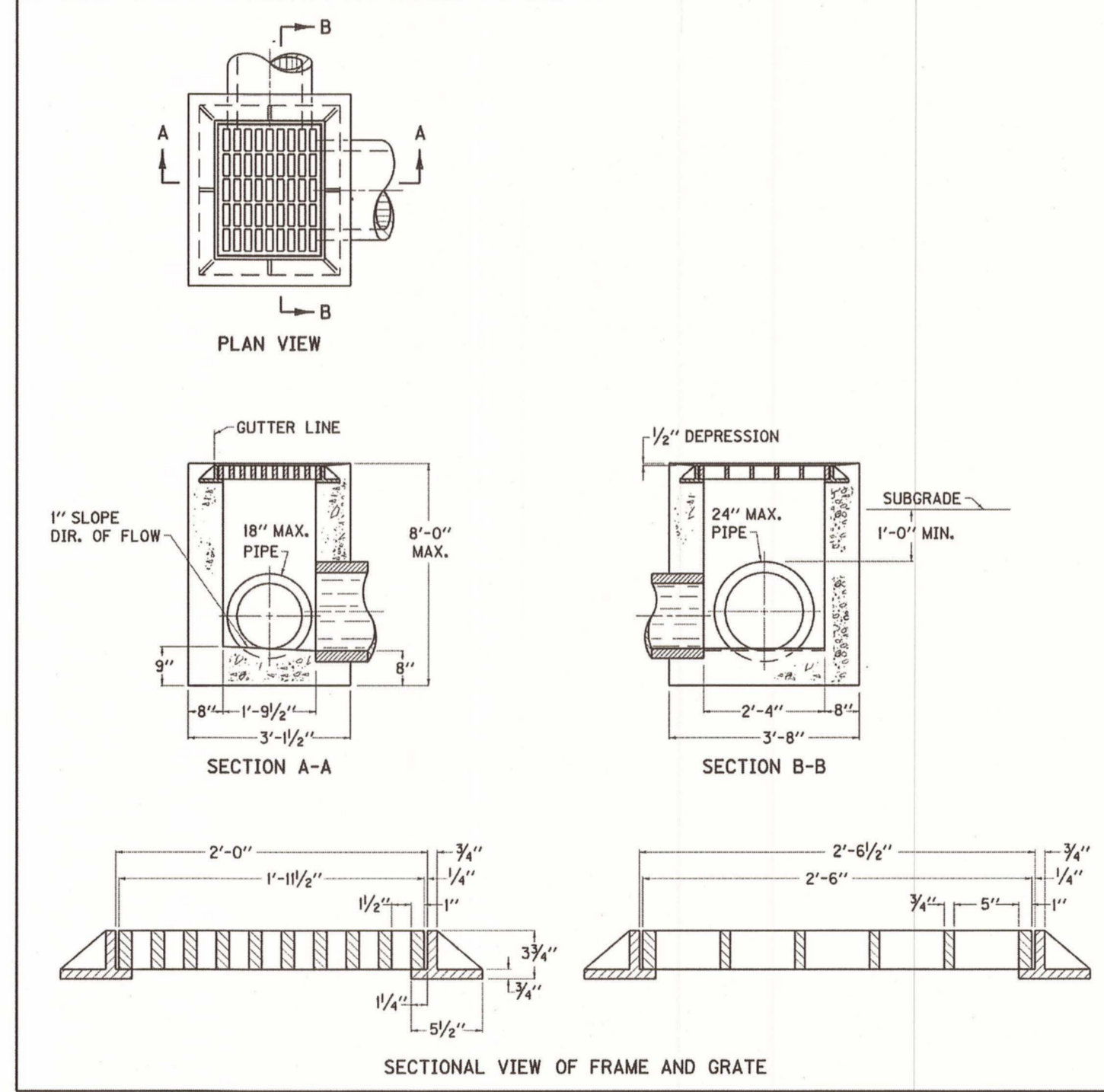
INLET SIZE NO.	X	Y	PIPE MAX. DIA.	H	CONCRETE CUBIC YARDS	REFIN. STEEL LBS.
1	2'-0"	2'-0"	12"	0.99	0.91	28
2	2'-0"	2'-0"	15"	1.06	0.98	32
3	2'-0"	2'-0"	18"	1.13	1.05	37
4	2'-6"	2'-6"	21"	1.44	1.27	42
5	2'-6"	2'-6"	24"	1.60	1.43	48
6	2'-6"	2'-6"	27"	1.88	1.36	45
7	2'-6"	2'-6"	30"	2.04	1.52	54
8	3'-0"	3'-0"	33"	2.24	1.76	60
9	3'-0"	3'-0"	36"	2.45	1.99	67
10	3'-6"	3'-6"	39"	2.66	2.22	74
11	3'-6"	3'-6"	42"	2.90	2.46	81
12	3'-6"	3'-6"	45"	3.14	2.70	88
13	3'-6"	3'-6"	48"	3.38	2.94	95
14	3'-6"	3'-6"	51"	3.62	3.18	102
15	3'-6"	3'-6"	54"	3.86	3.42	109
16	3'-6"	3'-6"	57"	4.10	3.66	116
17	3'-6"	3'-6"	60"	4.34	3.90	123
18	3'-6"	3'-6"	63"	4.58	4.14	130
19	3'-6"	3'-6"	66"	4.82	4.38	137
20	3'-6"	3'-6"	69"	5.06	4.62	144
21	3'-6"	3'-6"	72"	5.30	4.86	151
22	3'-6"	3'-6"	75"	5.54	5.10	158
23	3'-6"	3'-6"	78"	5.78	5.34	165
24	3'-6"	3'-6"	81"	6.02	5.58	172
25	3'-6"	3'-6"	84"	6.26	5.82	179
26	3'-6"	3'-6"	87"	6.50	6.06	186
27	3'-6"	3'-6"	90"	6.74	6.30	193
28	3'-6"	3'-6"	93"	6.98	6.54	200
29	3'-6"	3'-6"	96"	7.22	6.78	207
30	3'-6"	3'-6"	99"	7.46	7.02	214
31	3'-6"	3'-6"	102"	7.70	7.26	221
32	3'-6"	3'-6"	105"	7.94	7.50	228
33	3'-6"	3'-6"	108"	8.18	7.74	235
34	3'-6"	3'-6"	111"	8.42	7.98	242
35	3'-6"	3'-6"	114"	8.66	8.22	249
36	3'-6"	3'-6"	117"	8.90	8.46	256
37	3'-6"	3'-6"	120"	9.14	8.70	263
38	3'-6"	3'-6"	123"	9.38	8.94	270
39	3'-6"	3'-6"	126"	9.62	9.18	277
40	3'-6"	3'-6"	129"	9.86	9.42	284
41	3'-6"	3'-6"	132"	10.10	9.66	291
42	3'-6"	3'-6"	135"	10.34	9.90	298
43	3'-6"	3'-6"	138"	10.58	10.14	305
44	3'-6"	3'-6"	141"	10.82	10.38	312
45	3'-6"	3'-6"	144"	11.06	10.62	319
46	3'-6"	3'-6"	147"	11.30	10.86	326
47	3'-6"	3'-6"	150"	11.54	11.10	333
48	3'-6"	3'-6"	153"	11.78	11.34	340

- NOTES
- BASED ON H AS EQUAL TO D + 1'-0".
  - Q = CUBIC YARDS OF CONCRETE PER FOOT INCREASE OR DECREASE WHEN H VARIES FROM D + 1'-0".
  - NO DEDUCTIONS HAVE BEEN MADE FOR PIPE, SEE REFERENCE CHART FOR QUANTITIES TO DEDUCT.
  - THE DIMENSIONS AND QUANTITIES HAVE BEEN CALCULATED FOR ROUND CONCRETE PIPE. WHEN NON-CIRCULAR PIPE IS USED THE BOX SIZE SHALL BE DETERMINED BY CONTROLLING DIMENSIONS OF THE PIPE.

REFERENCE CHART

DIA. OF PIPE	JUNCTION BOX "X" SIDE OF BOX	CONCRETE TO DEDUCT FOR EACH PIPE CUBIC YARDS	
0	2'-0"	2'-0"	---
12"	2'-0"	2'-0"	0.1
15"-18"	2'-6"	2'-6"	---
21"	2'-6"	2'-6"	0.2
27"	3'-0"	3'-0"	0.3
30"-33"	3'-0"	3'-0"	0.4
36"	3'-6"	3'-6"	0.5
42"	4'-0"	4'-0"	0.6
48"	4'-6"	4'-6"	0.7
54"	5'-0"	5'-0"	0.8
60"	5'-6"	5'-6"	0.9
66"	6'-0"	6'-0"	1.0
72"	6'-6"	6'-6"	---

KENTUCKY DEPARTMENT OF HIGHWAYS  
JUNCTION BOX (DIMENSIONS & QUANTITIES)  
STANDARD DRAWING NO. RDX-002-03  
DATE: 12-1-99  
APPROVED: [Signature]



APPROX. CONCRETE QUANTITIES

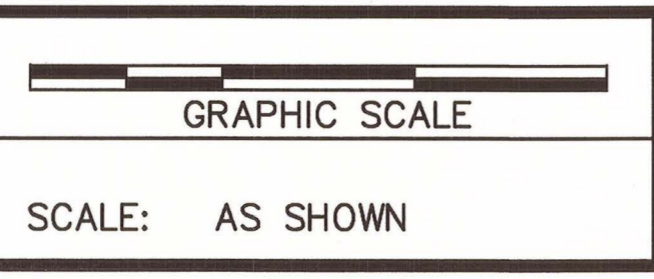
PIPE SIZE	MIN. HEIGHT	CU. YDS. CONC.
15"	2'-11"	0.89
18"	3'-3"	0.97
24"	4'-9"	1.38

APPROXIMATE WEIGHTS  
FRAME 195 LBS.  
GRATE 265 LBS.

NO DEDUCTIONS HAVE BEEN MADE FOR PIPE.

KENTUCKY DEPARTMENT OF HIGHWAYS  
DROP BOX INLET TYPE II  
STANDARD DRAWING NO. RDB-011-07  
DATE: 12-1-99  
APPROVED: [Signature]

DESIGNER	TFH	DATE	BY	REVISION
DRAWN	DJS			
CHECKED	?			
APPROVED	RLP			

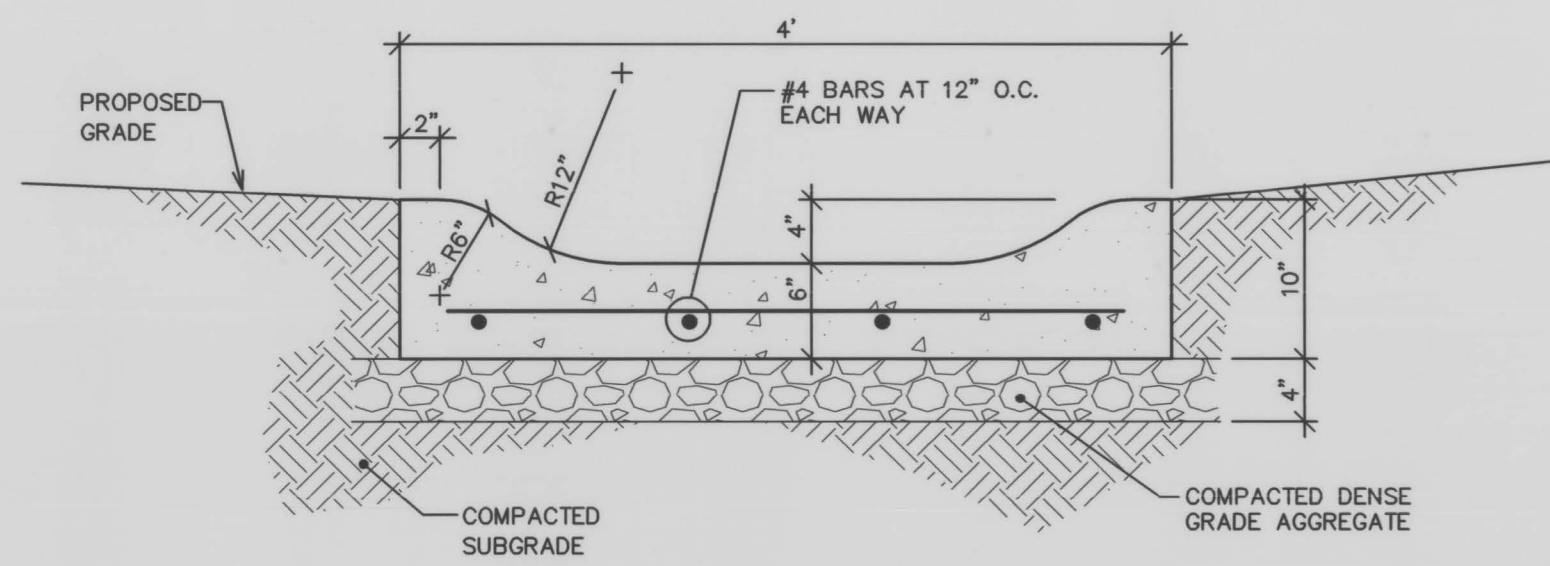


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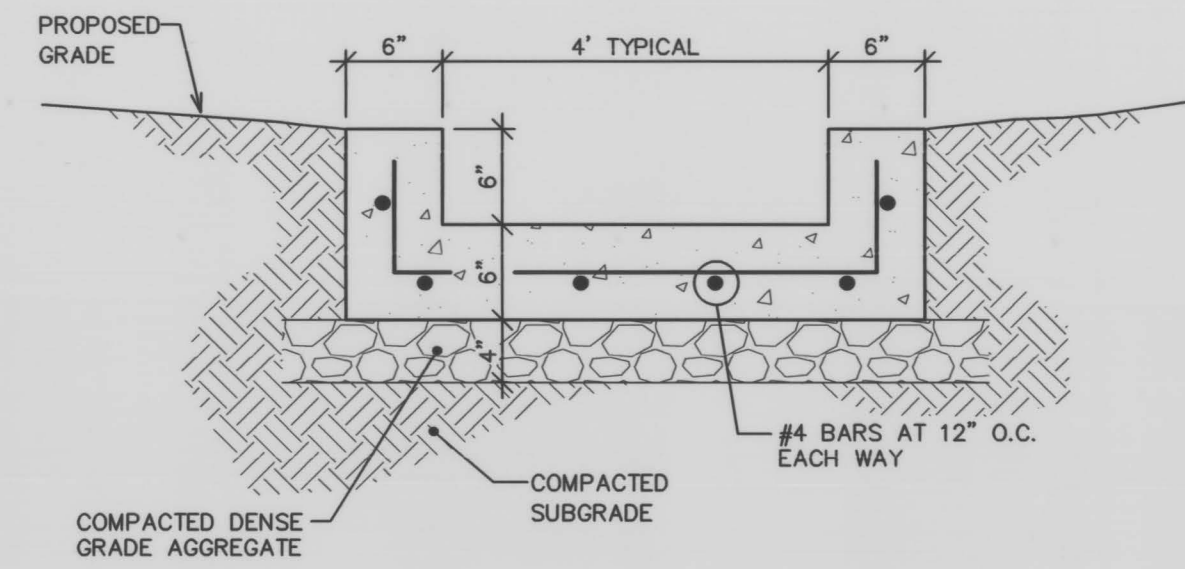
2422.0 SOUTH CAMPUS PARKING LOT EXPANSION  
CAPITAL PROJECT MANAGEMENT DIVISION  
UNIVERSITY OF KENTUCKY  
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DIVISION	CIVIL
CONTRACT NO.	600-048
DATE	MAY, 2015
SHEET NO.	C4.2



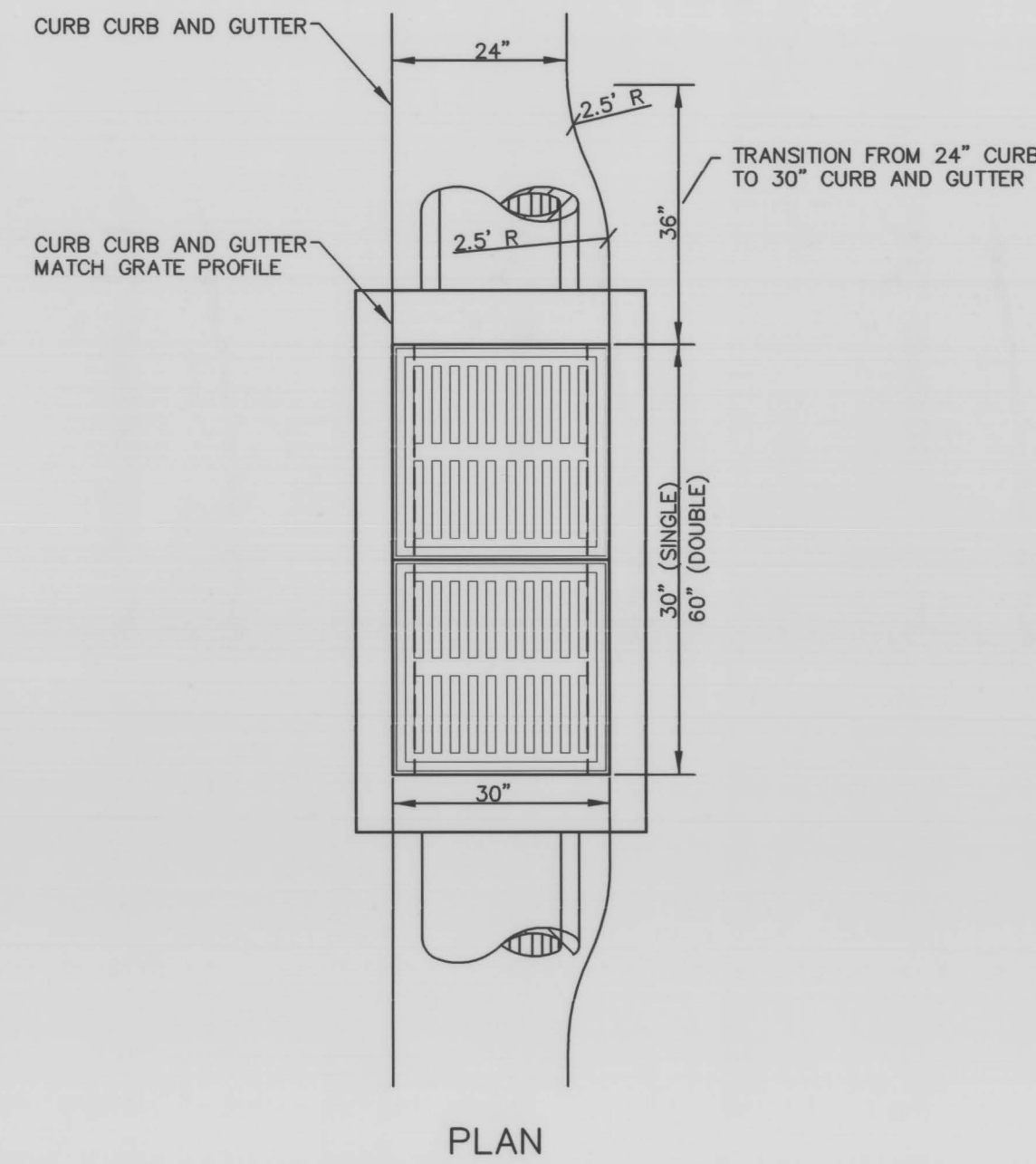
CONCRETE FLUME  
TYPE 1

SCALE: 1" = 1'-0"

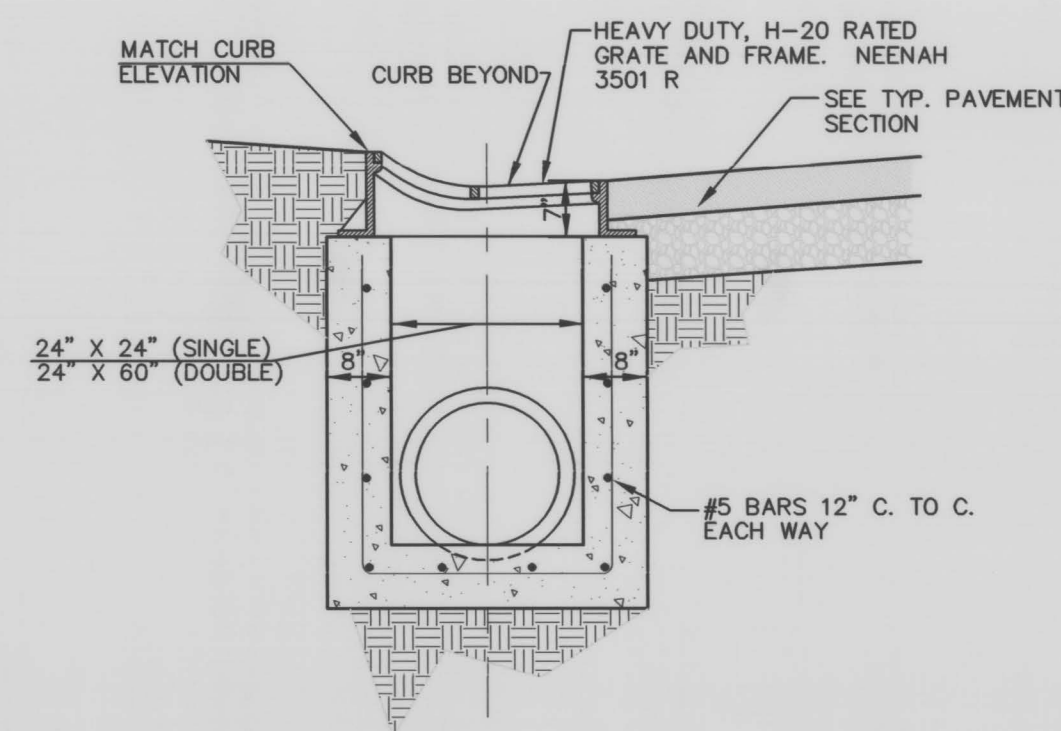


CONCRETE FLUME  
TYPE 2

SCALE: 1" = 1'-0"



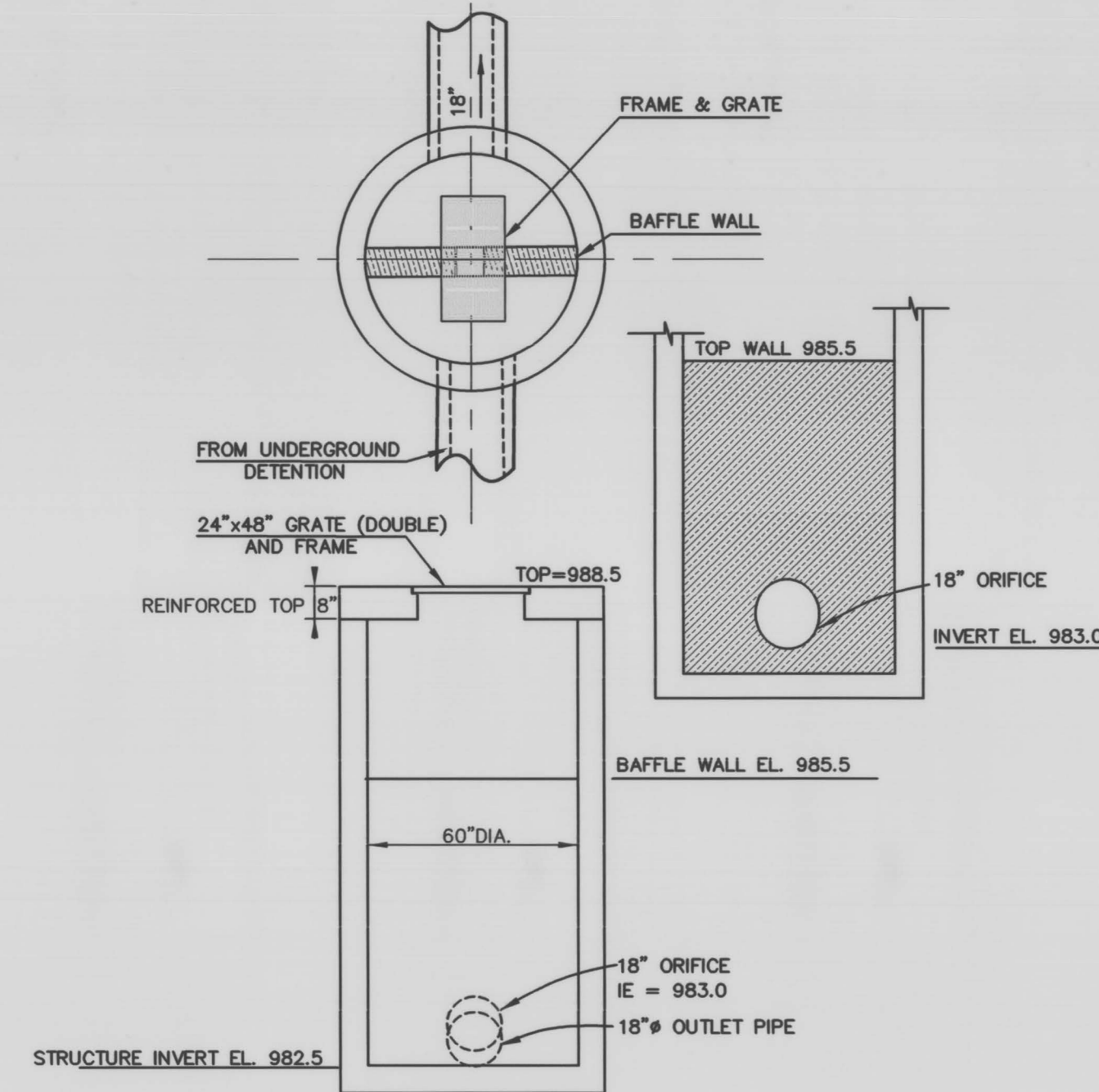
PLAN



SECTION

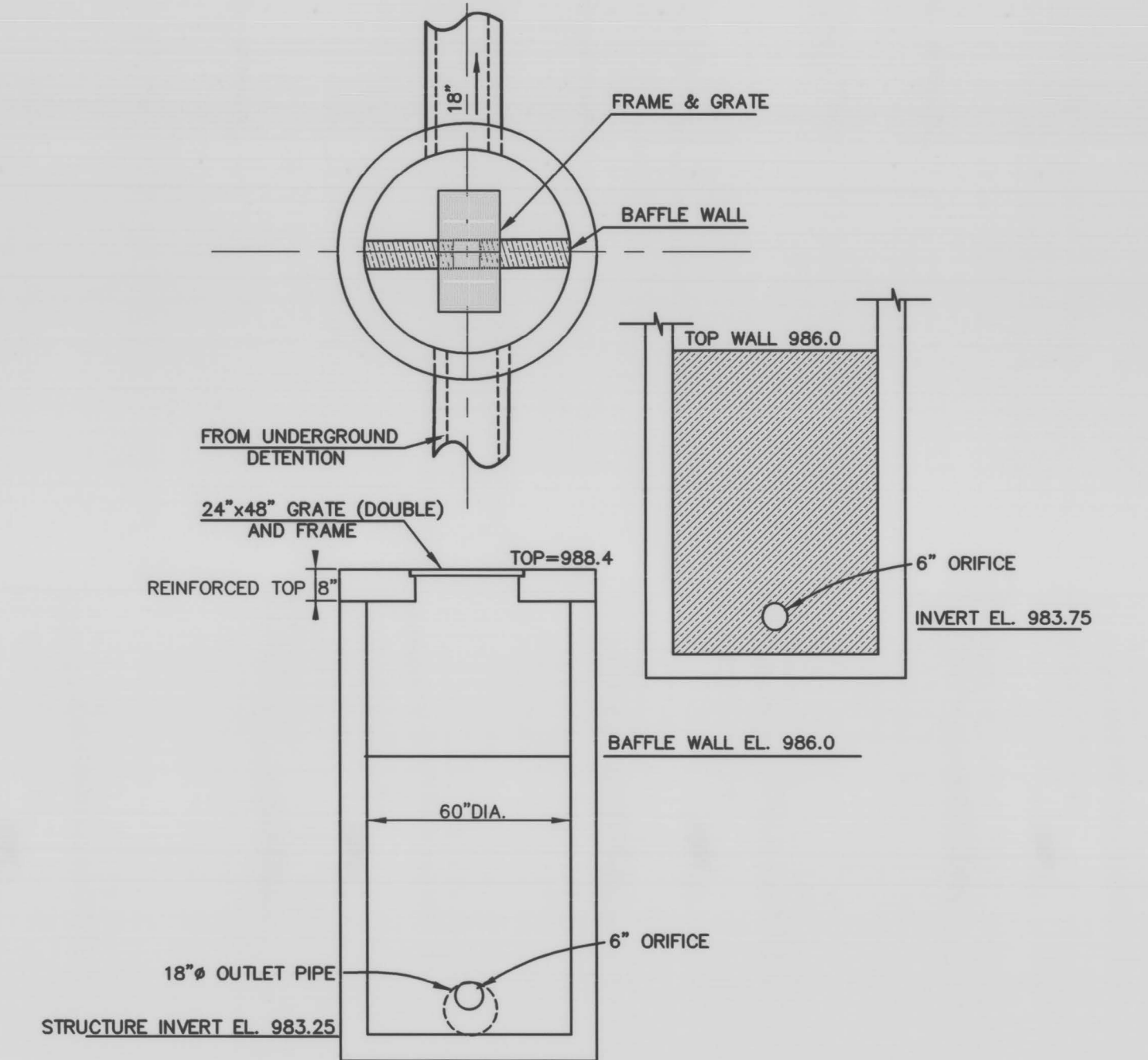
CURB INLET, SINGLE AND DOUBLE GRATE

N.T.S.



MODIFIED MANHOLE  
OUTLET STRUCTURE (A)

N.T.S.



MODIFIED MANHOLE  
OUTLET STRUCTURE (B)

N.T.S.

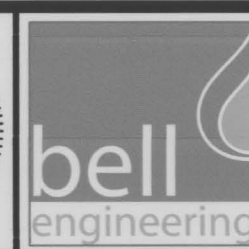
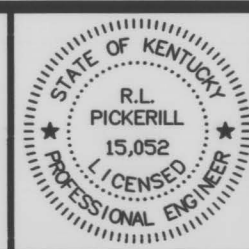
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GRAPHIC SCALE	
SCALE:	AS SHOWN

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CAPITAL PROJECT MANAGEMENT DIVISION  
UNIVERSITY OF KENTUCKY  
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DRAINAGE STRUCTURE DETAILS

DIVISION	CIVIL
CONTRACT NO.	600-048
DATE	MAY, 2015
SHEET NO.	C4.3

**LIGHT FIXTURE SCHEDULE:**

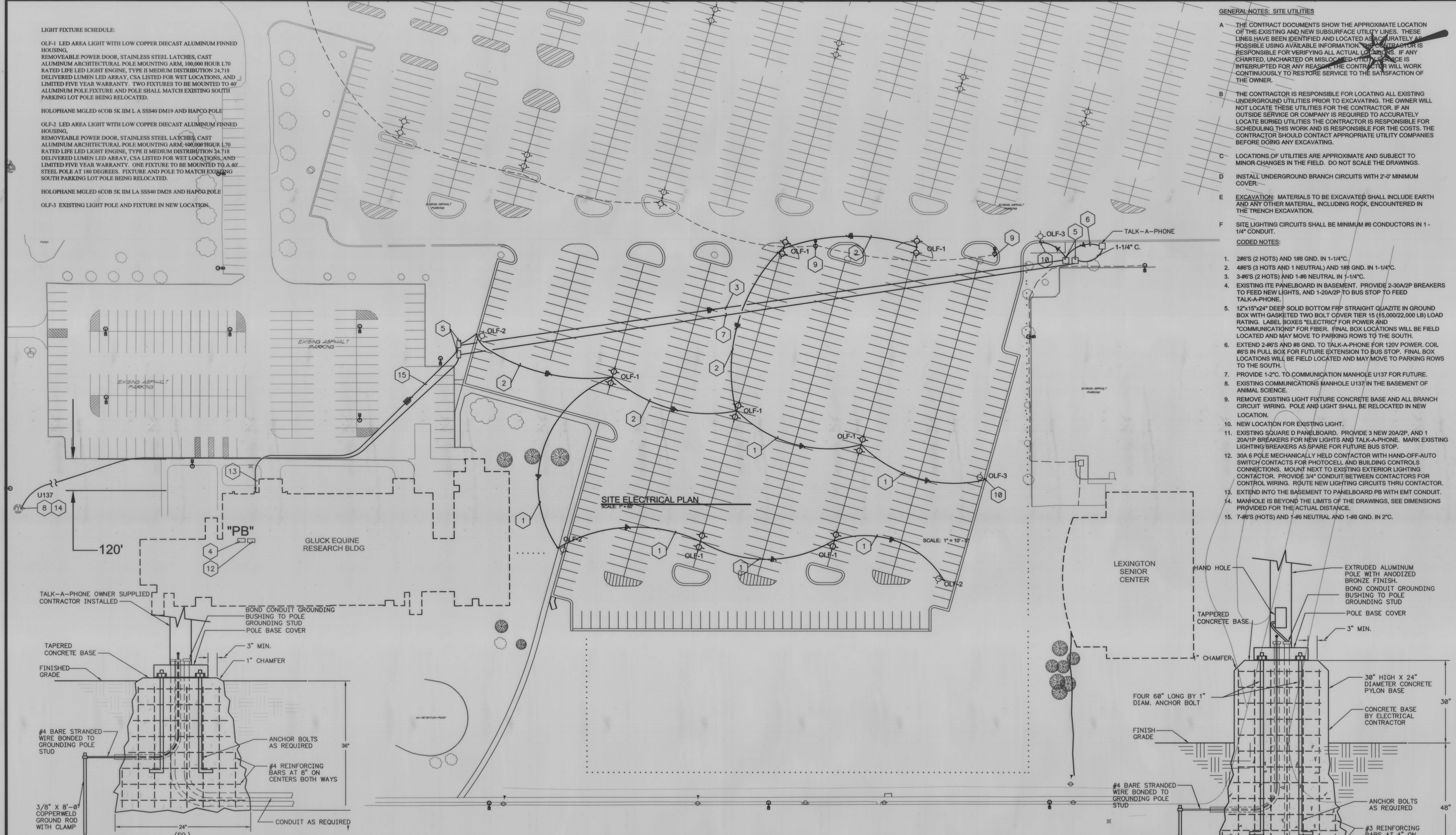
OLF-1 LED AREA LIGHT WITH LOW COPPER DIECAST ALUMINUM FINNED HOUSING, REMOVEABLE POWER DOOR, STAINLESS STEEL LATCHES, CAST ALUMINUM ARCHITECTURAL POLE MOUNTING ARM, 100,000 HOUR L70 RATED LIFE LED LIGHT ENGINE, TYPE II MEDIUM DISTRIBUTION 24,718 DELIVERED LUMEN LED ARRAY, CSA LISTED FOR WET LOCATIONS, AND LIMITED FIVE YEAR WARRANTY. TWO FIXTURES TO BE MOUNTED TO 40' ALUMINUM POLE. FIXTURE AND POLE SHALL MATCH EXISTING SOUTH PARKING LOT POLE BEING RELOCATED.

HOLOPHANE MGLED 6COB 5K IIM LA SSS40 DM19 AND HAPCO POLE  
OLF-2 LED AREA LIGHT WITH LOW COPPER DIECAST ALUMINUM FINNED HOUSING, REMOVEABLE POWER DOOR, STAINLESS STEEL LATCHES, CAST ALUMINUM ARCHITECTURAL POLE MOUNTING ARM, 100,000 HOUR L70 RATED LIFE LED LIGHT ENGINE, TYPE II MEDIUM DISTRIBUTION 24,718 DELIVERED LUMEN LED ARRAY, CSA LISTED FOR WET LOCATIONS, AND LIMITED FIVE YEAR WARRANTY. ONE FIXTURE TO BE MOUNTED TO A 40' STEEL POLE AT 180 DEGREES. FIXTURE AND POLE TO MATCH EXISTING SOUTH PARKING LOT POLE BEING RELOCATED.

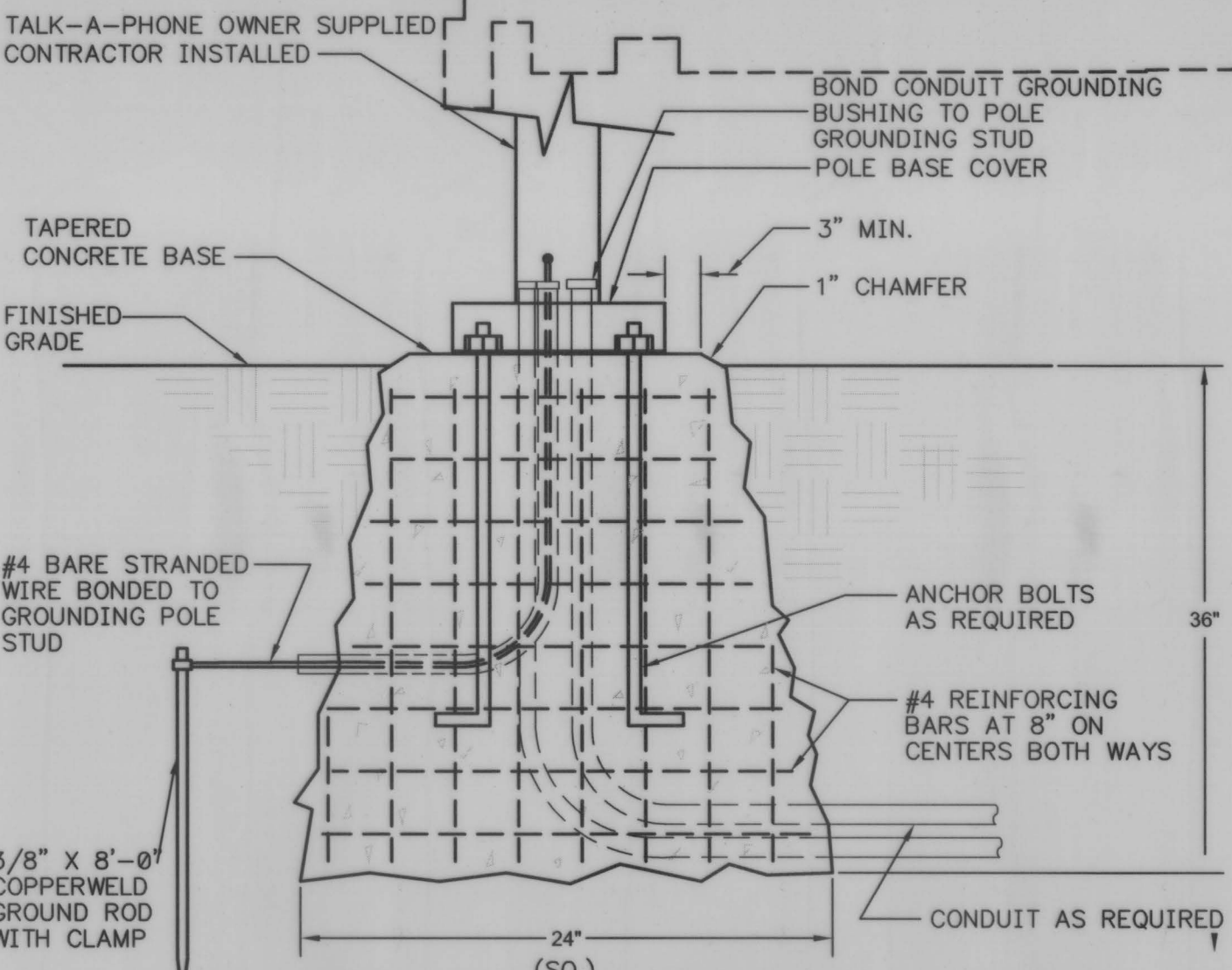
HOLOPHANE MGLED 6COB 5K IIM LA SSS40 DM28 AND HAPCO POLE  
OLF-3 EXISTING LIGHT POLE AND FIXTURE IN NEW LOCATION.

**GENERAL NOTES: SITE UTILITIES**

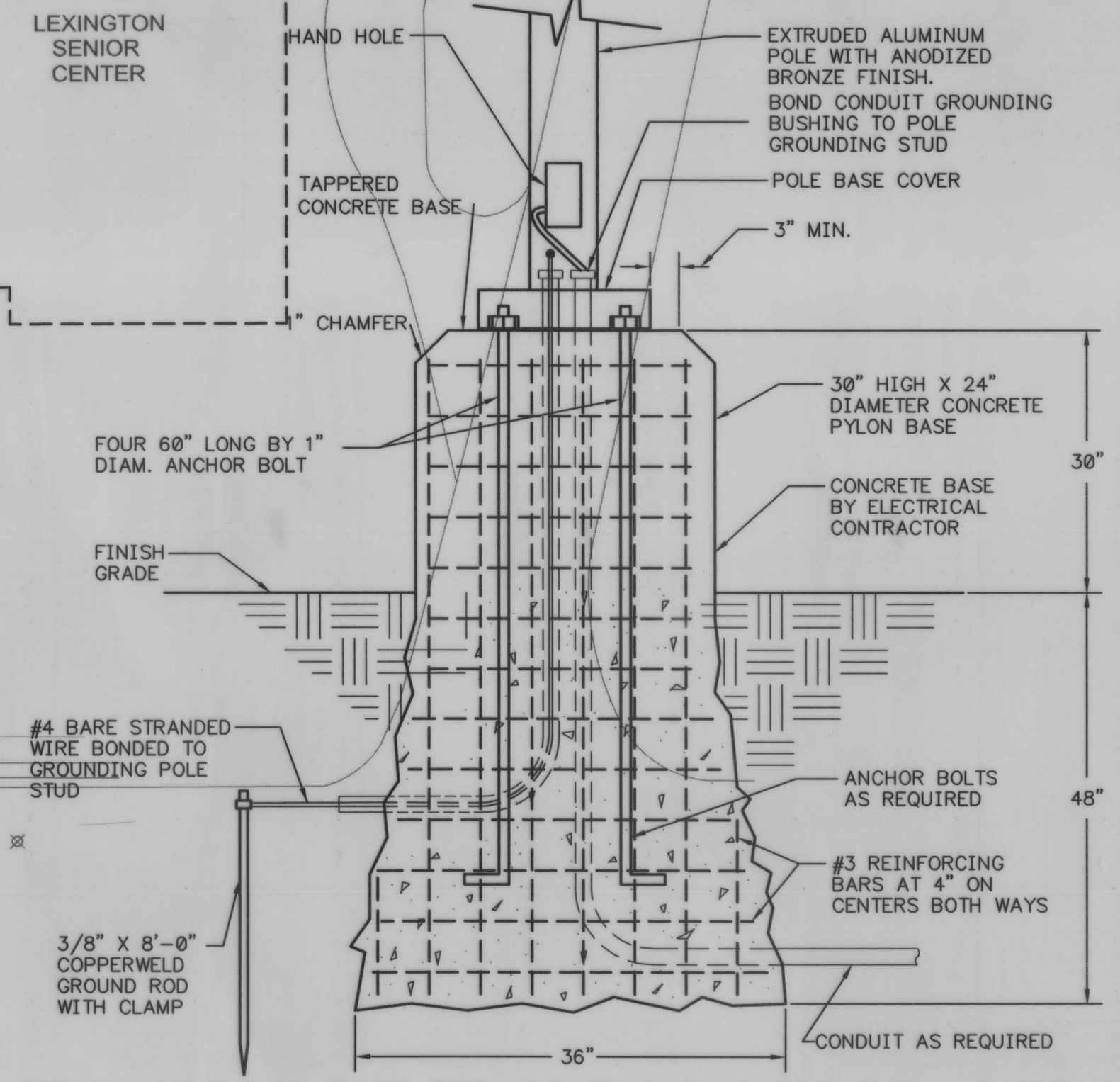
- A THE CONTRACT DOCUMENTS SHOW THE APPROXIMATE LOCATION OF THE EXISTING AND NEW SUBSURFACE UTILITY LINES. THESE LINES HAVE BEEN IDENTIFIED AND LOCATED AS ACCURATELY AS POSSIBLE USING AVAILABLE INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ACTUAL LOCATIONS. IF ANY CHARTED, UNCHARTED OR MISLOCATED UTILITY SERVICE IS INTERRUPTED FOR ANY REASON, THE CONTRACTOR WILL WORK CONTINUOUSLY TO RESTORE SERVICE TO THE SATISFACTION OF THE OWNER.
  - B THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATING. THE OWNER WILL NOT LOCATE THESE UTILITIES FOR THE CONTRACTOR. IF AN OUTSIDE SERVICE OR COMPANY IS REQUIRED TO ACCURATELY LOCATE BURIED UTILITIES THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THIS WORK AND IS RESPONSIBLE FOR THE COSTS. THE CONTRACTOR SHOULD CONTACT APPROPRIATE UTILITY COMPANIES BEFORE DOING ANY EXCAVATING.
  - C LOCATIONS OF UTILITIES ARE APPROXIMATE AND SUBJECT TO MINOR CHANGES IN THE FIELD. DO NOT SCALE THE DRAWINGS.
  - D INSTALL UNDERGROUND BRANCH CIRCUITS WITH 2'-0" MINIMUM COVER.
  - E EXCAVATION: MATERIALS TO BE EXCAVATED SHALL INCLUDE EARTH AND ANY OTHER MATERIAL, INCLUDING ROCK, ENCOUNTERED IN THE TRENCH EXCAVATION.
  - F SITE LIGHTING CIRCUITS SHALL BE MINIMUM #6 CONDUCTORS IN 1-1/4" CONDUIT.
- CODED NOTES:**
1. 2#6'S (2 HOTS) AND 1#8 GND. IN 1-1/4"C.
  2. 4#6'S (3 HOTS AND 1 NEUTRAL) AND 1#8 GND. IN 1-1/4"C.
  3. 3#6'S (2 HOTS) AND 1#6 NEUTRAL IN 1-1/4"C.
  4. EXISTING ITE PANELBOARD IN BASEMENT. PROVIDE 2-30A/2P BREAKERS TO FEED NEW LIGHTS, AND 1-20A/2P TO BUS STOP TO FEED TALK-A-PHONE.
  5. 12"x15"x24" DEEP SOLID BOTTOM FRP STRAIGHT QUARTZITE IN GROUND BOX WITH GASKETED TWO BOLT COVER TIER 15 (15,000/22,000 LB) LOAD RATING. LABEL BOXES "ELECTRIC" FOR POWER AND "COMMUNICATIONS" FOR FIBER. FINAL BOX LOCATIONS WILL BE FIELD LOCATED AND MAY MOVE TO PARKING ROWS TO THE SOUTH.
  6. EXTEND 2 #6'S AND #8 GND. TO TALK-A-PHONE FOR 120V POWER. COIL #6'S IN PULL BOX FOR FUTURE EXTENSION TO BUS STOP. FINAL BOX LOCATIONS WILL BE FIELD LOCATED AND MAY MOVE TO PARKING ROWS TO THE SOUTH.
  7. PROVIDE 1-2"C. TO COMMUNICATION MANHOLE U137 FOR FUTURE.
  8. EXISTING COMMUNICATIONS MANHOLE U137 IN THE BASEMENT OF ANIMAL SCIENCE.
  9. REMOVE EXISTING LIGHT FIXTURE CONCRETE BASE AND ALL BRANCH CIRCUIT WIRING. POLE AND LIGHT SHALL BE RELOCATED IN NEW LOCATION.
  10. NEW LOCATION FOR EXISTING LIGHT.
  11. EXISTING SQUARE D PANELBOARD. PROVIDE 3 NEW 20A/2P, AND 1 20A/1P BREAKERS FOR NEW LIGHTS AND TALK-A-PHONE. MARK EXISTING LIGHTING BREAKERS AS SPARE FOR FUTURE BUS STOP.
  12. 30A 6 POLE MECHANICALLY HELD CONTACTOR WITH HAND-OFF-AUTO SWITCH CONTACTS FOR PHOTOCELL AND BUILDING CONTROLS CONNECTIONS. MOUNT NEXT TO EXISTING EXTERIOR LIGHTING CONTACTOR. PROVIDE 3/4" CONDUIT BETWEEN CONTACTORS FOR CONTROL WIRING. ROUTE NEW LIGHTING CIRCUITS THRU CONTACTOR.
  13. EXTEND INTO THE BASEMENT TO PANELBOARD PB WITH EMT CONDUIT.
  14. MANHOLE IS BEYOND THE LIMITS OF THE DRAWINGS, SEE DIMENSIONS PROVIDED FOR THE ACTUAL DISTANCE.
  15. 7-#6'S (HOTS) AND 1-#8 NEUTRAL AND 1-#8 GND. IN 2"C.



**SITE ELECTRICAL PLAN**  
SCALE: 1" = 10'-0"



**TALK-A-PHONE BASE DETAIL STANDARD**  
NO SCALE



**DETAIL OF PYLON BASE FOR LIGHTING FIXTURES OLF-1 & OLF-2**  
NO SCALE

**NOTE:**  
IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTING CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCE AND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

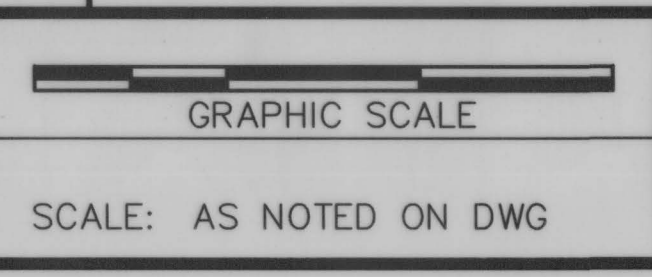


RECORD DRAWINGS DATE 1/25/2016

These record drawings have been prepared, in part, on the basis of information compiled and furnished by others. The Engineer has not verified the accuracy and/or completeness of this information and shall not be responsible for any errors or omissions that may be incorporated as a result of erroneous information provided by others.

STAGGS & FISHER CONSULTING ENGINEERS, INC.

DESIGNER	DESIGNER	DATE	BY	REVISION
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CHECKED	CHECKED?			
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**SITE UTILITIES PLAN**

DIVISION	GENERAL
CONTRACT NO.	600-048
DATE	MAY 2015
SHEET NO.	U10



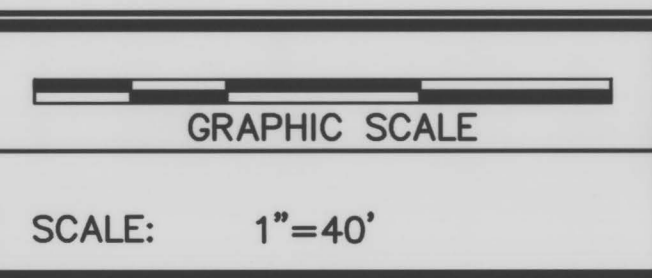
NOTE:  
SEE LANDSCAPE LEGEND ~ SHEET L11

-  QURU - PERIMETER
-  GLET - ISLANDS

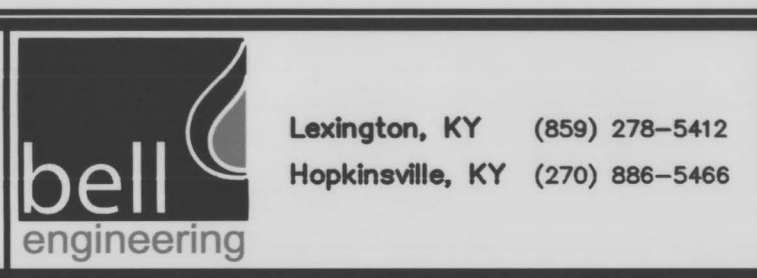
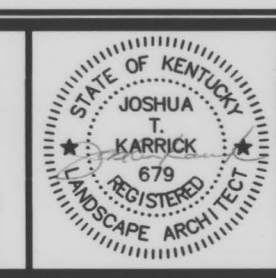
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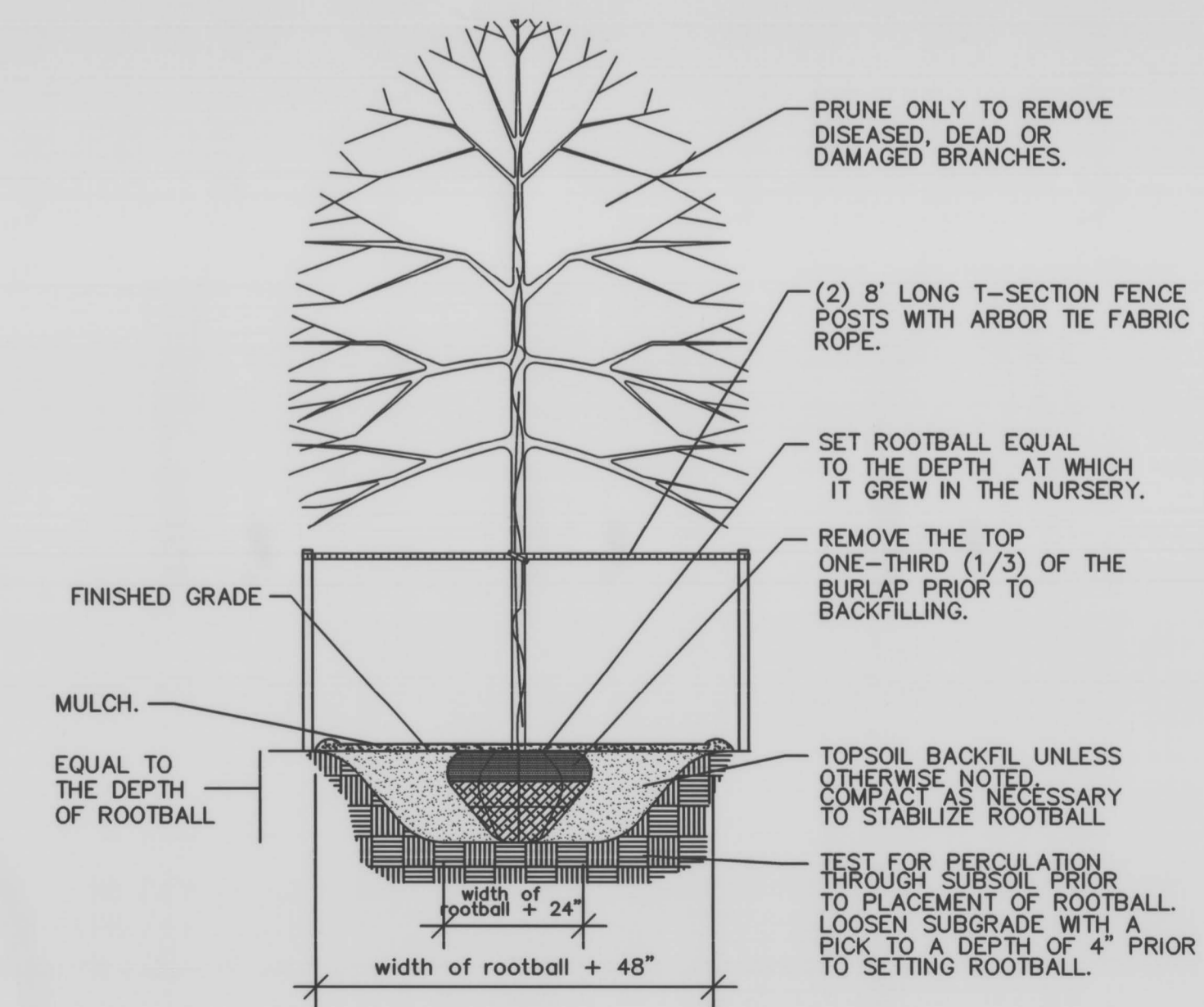
DIVISION LANDSCAPING	
CONTRACT NO.	600-048
DATE	MAY 2015
SHEET NO.	L10

**PLANTING NOTES**

- REQUIREMENTS FOR THE MEASUREMENT, BRANCHING, GRADING, BALLING AND BURLAPPING OF PLANTS IN THE PLANT LIST GENERALLY FOLLOWS OR EXCEEDS A CODE OF STANDARDS CURRENTLY RECOMMENDED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN THE AMERICAN STANDARD FOR NURSERY STOCK. SEE THE PLANT LIST FOR OTHER REQUIREMENTS.
- ALL PLANTS SHALL HAVE A WELL FORMED HEAD WITH MINIMUM CALIPER, HEIGHT AND SPREAD OF THE SIDE BRANCHES AS SHOWN ON THE PLANT LIST. TRUNKS SHALL BE UNDAUNAGED AND SHAPE SHALL BE TYPICAL OF THE SPECIES.
- CONTAINERIZED TAXUS OR TAXUS WITH SAND BALLS ARE NOT PERMITTED ON THIS PROJECT. TAXUS MUST BE SUPPLIED BALLED AND BURLAPPED WITH A CLAY LOAM SOIL SIMILAR TO THAT FOUND ON THE SITE.
- PLANTS SHALL BE SOUND, HEALTHY, VIGOROUS AND FREE FROM INSECTS, PESTS, PLANT DISEASES AND INJURIES. ALL PLANTS SHALL EQUAL OR EXCEED THE MEASUREMENTS SPECIFIED IN THE PLANT LIST WHICH ARE MINIMUM ACCEPTABLE SIZES. THEY SHALL BE MEASURED BEFORE PRUNING.
- SYNTHETIC BURLAP SHALL NOT BE USED IN BALLING AND BURLAPPING ANY PLANTS ON THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT THIS REQUIREMENT IS MET.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING AND LAYOUT OF PLANTINGS IN THIS PROJECT. THE LANDSCAPE ARCHITECT OR OWNER SHALL BE ADVISED WHEN STAKES ARE READY FOR INSPECTION OF VARIOUS PLANTING AREAS. ALL LAYOUT WORK SHALL BE INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT OR OWNER PRIOR TO OPENING ANY PLANTING PITS.
- SHOULD THE LANDSCAPE CONTRACTOR ENCOUNTER UNSATISFACTORY SURFACE OR SUBSURFACE DRAINAGE CONDITIONS, SOIL DEPTH, LATENT SOILS, HARD PAN, UTILITY LINES OR OTHER CONDITIONS THAT WILL JEOPARDIZE THE HEALTH AND VIGOR OF THE PLANTS, HE MUST ADVISE THE LANDSCAPE ARCHITECT IN WRITING OF THE CONDITIONS PRIOR TO INSTALLING THE PLANTS. OTHERWISE THE LANDSCAPE CONTRACTOR WARRANTS THAT THE PLANTING AREAS ARE SUITABLE FOR PROPER GROWTH AND DEVELOPMENT OF THE PLANTS TO BE INSTALLED.
- IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO VERIFY THAT EACH EXCAVATED TREE OR SHRUB PIT WILL PERCOLATE (DRAIN) PRIOR TO ADDING TOPSOIL AND INSTALLING TREES OR SHRUBS. THE CONTRACTOR SHALL FILL THE BOTTOM OF SELECTED HOLES WITH SIX (6) INCHES OF WATER. THIS WATER SHOULD PERCOLATE OUT WITHIN A TWENTY-FOUR (24) HOUR PERIOD. THE LANDSCAPE ARCHITECT SHALL VERIFY ACCURACY AND EFFECT OF PERCOLATION TESTING. IF THE SOIL AT A GIVEN AREA DOES NOT DRAIN PROPERLY, A PVC DRAIN OR GRAVEL SUMP SHALL BE INSTALLED OR THE PLANTING RELOCATED.
- TOPSOIL SHALL BE ORIGINAL SURFACE LOAM OBTAINED FROM WELL-DRAINED AREAS FROM WHICH TOPSOIL HAS NOT BEEN REMOVED PREVIOUSLY, EITHER BY EROSION, CLEARING AND REMOVAL OF TREES OR MECHANICAL MEANS. IT SHALL NOT CONTAIN SUBSOIL MATERIAL AND SHALL BE CLEAN AND FREE OF CLAY LUMPS, ROOTS, STONES OR SIMILAR SUBSTANCES MORE THAN 1" IN DIAMETER, DEBRIS, DISCARDED FRAGMENTS OF BUILDING MATERIALS OR WEEDS AND WEED SEEDS. TOPSOIL SHALL BE CLASSIFIED AS A LOAM, SILT LOAM, CLAY LOAM OR A COMBINATION THEREOF, AS DETERMINED FROM THE BUREAU OF PLANT INDUSTRY SOILS AND AGRICULTURAL ENGINEERING, U.S.D.A. TRIANGULAR SOIL TEXTURE CHART. IT SHALL BE RICH, FRABLE LOAM CONTAINING NOT LESS THAN THREE (3) PERCENT NOR MORE THAN TEN (10) PERCENT, BY WEIGHT, OF ORGANIC MATTER.
- PLANTING PITS FOR TREES AND SHRUBS SHALL BE DUG A FULL TWELVE (12) INCHES WIDER THAN THE BALL AROUND THE ENTIRE PLANT AND SIX (6) INCHES DEEPER THAN THE BALL. NEW TOPSOIL AS SHALL BE FURNISHED BY THE CONTRACTOR. ANY HEAVY CLAY OR OTHER SOIL UNSUITABLE FOR PLANTING ENCOUNTERED IN THE BOTTOM OF THE HOLES SHALL BE REMOVED FROM THE SITE. IF THE LANDSCAPE CONTRACTOR ENCOUNTERS SOILS THAT ARE SUITABLE FOR BACKFILL, HE SHALL ADVISE THE LANDSCAPE ARCHITECT PRIOR TO BACKFILLING. A WRITTEN CHANGE ORDER WITH A CREDIT TO THE OWNER MAY BE PREPARED TO ALLOW THE CONTRACTOR TO USE EXISTING SOILS AS BACKFILL.
- ALL EXCAVATIONS MADE WITH AN AUGER SHALL HAVE THE ENTIRE SIDE OF THE PLANTING PIT SCARIFIED TO A MINIMUM DEPTH OF ONE (1) INCH.
- NO EXCAVATION OR PLANTING PIT SHALL BE LEFT UNATTENDED OR OPEN OVERNIGHT.
- SHREDDED HARDWOOD BARK MULCH SHALL BE APPLIED TO ALL SHRUB BEDS BY THE LANDSCAPE CONTRACTOR. BEDS SHALL BE TREATED WITH PRE-EMERGENT HERBICIDE BY THE LANDSCAPE CONTRACTOR BEFORE MULCH IS APPLIED. MULCH SHALL BE AN APPROVED, CLEAN, SHREDDED HARDWOOD BARK OF UNIFORM SIZE NOT TO EXCEED A LENGTH OF THREE (3) INCHES OR A THICKNESS OF ONE-HALF (1/2) INCH. IT SHALL BE DE-CAY AND FIRE RESISTANT, NON-TOXIC TO PLANT MATERIAL AND BE SCREENED TO REMOVE SAWDUST AND FINE SHAWINGS AND AGED TO OBTAIN A DARK BROWN COLOR. A SAMPLE OF MULCH SHALL BE PRESENTED TO THE OWNER FOR APPROVAL.
- ALL TREES ARE TO BE STAKED IMMEDIATELY AFTER PLANTING. WRAPPING SHALL NOT BE REQUIRED ON THIS PROJECT.
- ALL CORDS AND BINDINGS SHALL BE CUT FROM PLANTS PRIOR TO PLANTING.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED MAINTENANCE UNTIL ALL PLANTINGS ARE FORMALLY ACCEPTED. ALL PLANTS SHALL BE WATERED AT TIME OF INSTALLATION AND AS OFTEN THEREAFTER AS NECESSARY TO MAINTAIN THEM IN A HEALTHY, VIGOROUS CONDITION UNTIL COMPLETION OF WORK AND ACCEPTANCE BY OWNER.
- THE OWNER SHALL BE RESPONSIBLE FOR LANDSCAPE MAINTENANCE AFTER THE PLANTINGS ARE FORMALLY ACCEPTED DURING THE ONE (1) YEAR GUARANTEE PERIOD. THE LANDSCAPE CONTRACTOR SHALL PROVIDE THEM WITH WRITTEN INSTRUCTIONS FOR THE CARE OF THE PLANTINGS DURING THE WARRANTY PERIOD.
- THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE SITE IN A REASONABLY NEAT AND CLEAN STATE THROUGHOUT THE INSTALLATION PROCESS. STREETS AND PAVED AREAS SHALL BE CLEANED REGULARLY TO REMOVE DEBRIS RESULTING FROM WORK ON THIS PROJECT.
- PLANTS SHALL BE GUARANTEED FOR THE DURATION OF ONE (1) FULL YEAR AFTER THE FORMAL ACCEPTANCE OF THE PLANTING BY THE OWNER AND SHALL BE ALIVE AND IN SATISFACTORY CONDITION AT THE END OF THE GUARANTEE PERIOD. ANY PLANT NOT IN A HEALTHY AND VIGOROUS STATE AT THE END OF THE GUARANTEE PERIOD SHALL BE REPLACED AT NO COST TO THE OWNER. PLANTS SEVERELY DAMAGED THROUGH VANDALISM ARE NOT SUBJECT TO REPLACEMENT BY THIS CONTRACTOR.
- ALL PLANTS ARE TO BE ALIVE, HEALTHY AND VIGOROUS AT THE TIME OF THE FINAL INSPECTION. ANY PLANT THAT DOES NOT MEET THIS CONDITION SHALL BE REINSTALLED IMMEDIATELY OR AS SOON AS WEATHER CONDITIONS PERMIT AT NO EXPENSE TO THE OWNER.
- REPLACEMENT OF DEAD OR UNSATISFACTORY MATERIAL SHALL BE MADE AS SPECIFIED IN THE PLANT LIST. THE OWNER OR LANDSCAPE ARCHITECT SHALL INSPECT REPLACED PLANTS WHEN ALL REPLACEMENTS HAVE BEEN MADE. REPLACEMENTS ARE TO BE ALIVE AND IN A HEALTHY CONDITION WHEN THE REPLACEMENT IS COMPLETE, BUT THEY SHALL NOT BE SUBJECT TO A ONE (1) YEAR GUARANTEE. THE LANDSCAPE CONTRACTOR SHALL REMOVE THE STAKING AT THE TIME THE REPLACEMENTS ARE MADE.
- SHOULD THE LANDSCAPE CONTRACTOR NOT MAKE REPLACEMENTS IN A SATISFACTORY AND TIMELY FASHION IN ACCORD WITH THE PLANTING NOTES, THE OWNER AFTER PROPER NOTIFICATION TO THE LANDSCAPE CONTRACTOR, MAY UTILIZE THE FUNDS OF RETAINAGE TO HAVE REPLACEMENTS MADE IN ACCORD WITH THE PLANTING NOTES, BY THE LANDSCAPE CONTRACTOR.
- ALL STRAW BLANKETS SHALL HAVE BIODEGRADABLE NETTING AND BIODEGRADABLE ANCHORS.
- RELOCATE 5 RED OAK TREES AS SHOWN ON DEMO PLAN TO LOCATIONS AS SHOWN ON LANDSCAPING PLAN.

**PLANT LIST**

ABBREV.	BOTANICAL NAME	COMMON NAME	MINIMUM CALIPER	MINIMUM SPREAD	MINIMUM HEIGHT	MINIMUM BALL DIA.	NO. CANE
GLTY	<i>Gleditsia triacanthos inermis</i> 'Skyline'	Skyline Honeylocust	4"	16'	20'	42"	1
QRU	<i>Quercus rubra</i>	Red Oak	4"	16'	20'	42"	1



**TREE PLANTING DETAIL RECORD DRAWINGS**

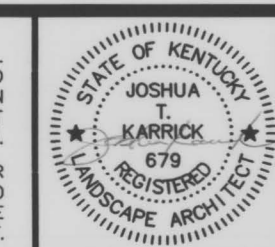
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DESIGNER	JTK	DATE	BY	REVISION
DRAWN	JTK			
CHECKED	JTK			
APPROVED	JTK			

GRAPHIC SCALE

SCALE: AS NOTED

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2422.0 SOUTH CAMPUS PARKING LOT EXPANSION  
CAPITAL PROJECT MANAGEMENT DIVISION  
UNIVERSITY OF KENTUCKY  
LEXINGTON, KENTUCKY

LANDSCAPING DETAILS

DIVISION	LANDSCAPING
CONTRACT NO.	600-048
DATE	MAY 2015
SHEET NO.	L11

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