

PROJECT NO. 770-2003-074

ODOT I-70 / LICKING COUNTY REST AREA

EASTBOUND AND WESTBOUND LANES OF INTERSTATE 70
JUST EAST OF HEBRON, OHIO

PREPARED FOR
OHIO DEPARTMENT OF TRANSPORTATION

ODOT PROJECT NO. Lic-70-17.13 - PID #24413

GORDON PROCTOR, DIRECTOR

PREPARED BY

DEPARTMENT OF ADMINISTRATIVE SERVICES
C. SCOTT JOHNSON, DIRECTOR

GENERAL SERVICES ADMINISTRATION
RICHARD M. HICKMAN, DEPUTY DIRECTOR

OFFICE OF THE STATE ARCHITECT
ROGER B. BOOKER, A.I.A., STATE ARCHITECT

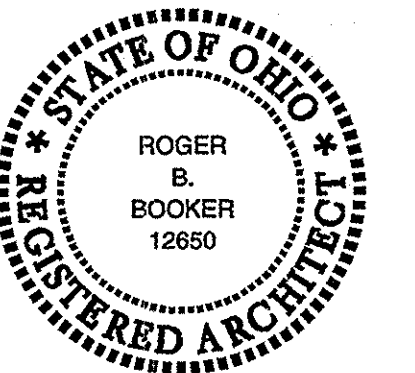
IN ASSOCIATION WITH
SRA, INC., KZF DESIGN, KINZELMAN KLINE, AND LANTZ JONES NEBRASKA

BID/CONSTRUCTION SET
AUGUST, 2004

OHIO DEPARTMENT OF TRANSPORTATION



OFFICE OF THE STATE ARCHITECT
Ohio **DAS**



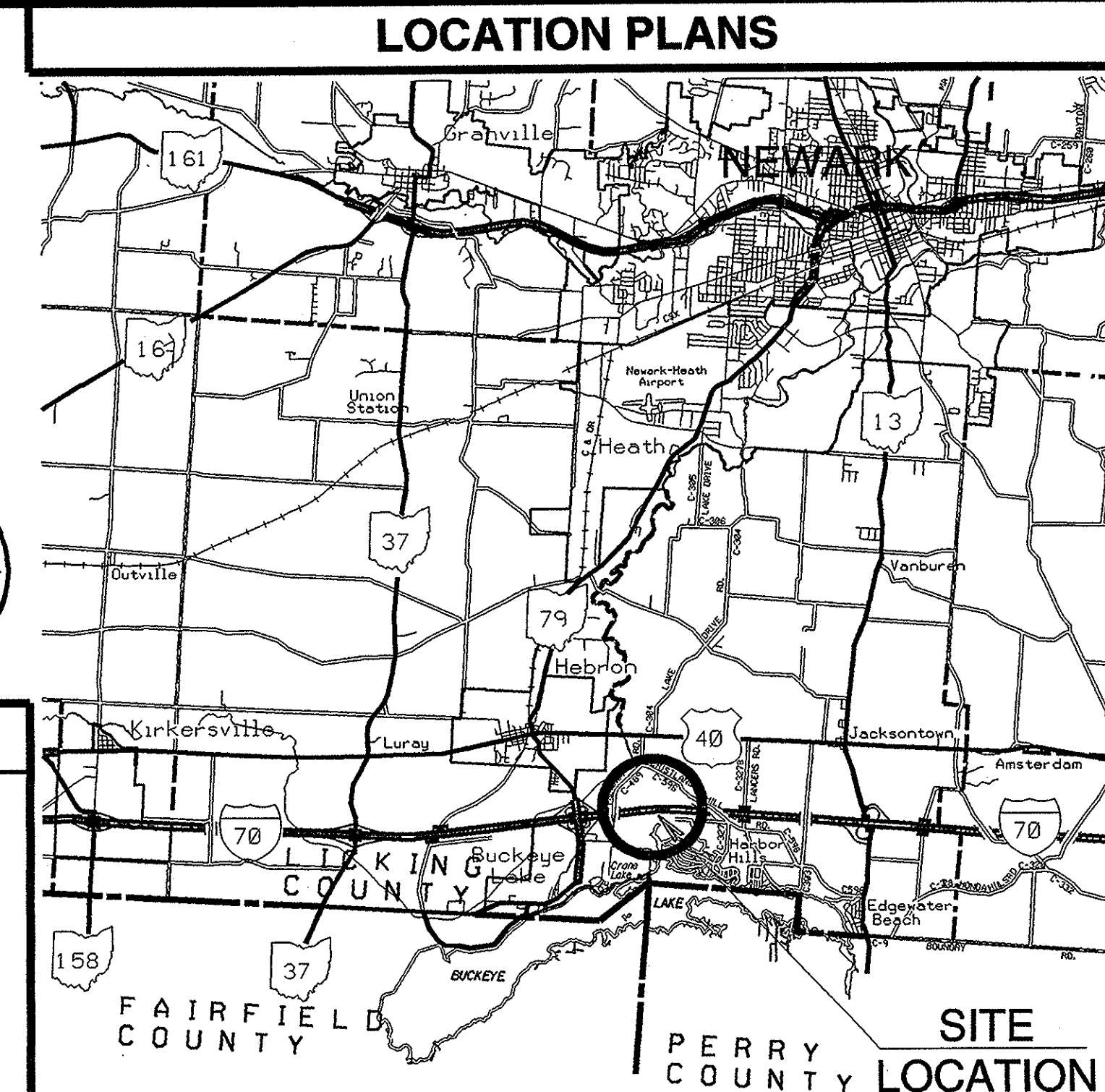
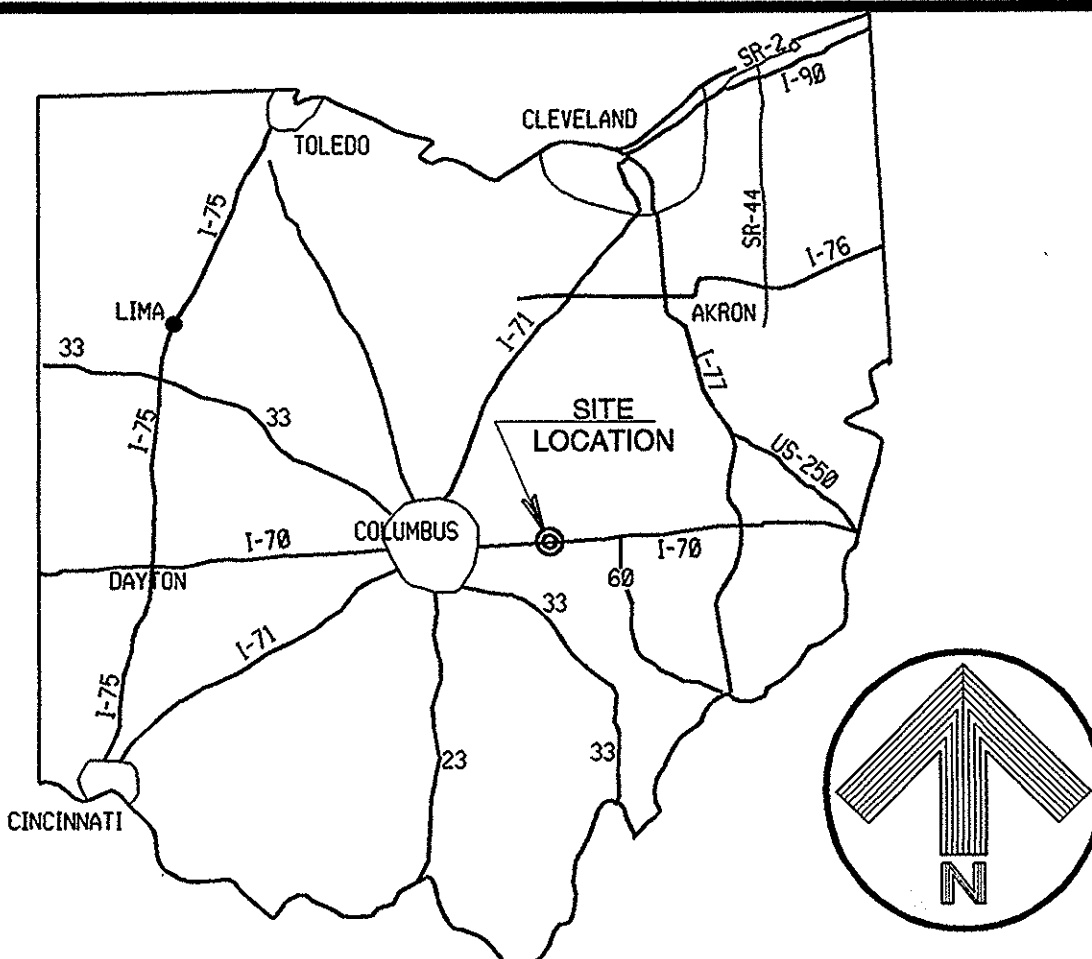
Set 4

OFM
~~JIM'S~~ SET
COPY
FINAL
BID SET

DRAWING INDEX

- APPLICABLE CODE: O.B.C., 2002
- USE GROUP:
 REST STOP: B (BUSINESS)
 MAINTENANCE SHED: S-2 (STORAGE)
- CONSTRUCTION TYPE:
 REST STOP: 2B
 MAINTENANCE SHED: 2B
 SEE SECTION 603 (FIRE RETARDANT WOOD REQ.)
- ALLOWABLE AREA (TABLE 503):
 REST STOP: 23,000 S.F.
 MAINTENANCE SHED: 26,000 S.F.
- ACTUAL BUILDING AREA:
 REST STOP: (BLDG AREA) 8472 + (OVERHANG) 2234 = 10,706 S.F.
 MAINTENANCE SHED: 841 S.F.
- ALLOWABLE HEIGHT (TABLE 503):
 REST STOP: 4 STORIES / 55 FEET
 MAINTENANCE SHED: 4 STORIES / 55 FEET
- ACTUAL HEIGHT:
 REST STOP: 28'-4" (ONE STORY)
 MAINTENANCE SHED: 19'-8" (ONE STORY)
- OCCUPANCY LOAD (TABLE 1003.2.2.2):
 REST STOP: 8472/100 = 85 PEOPLE
 MAINTENANCE SHED: 841 S.F. EACH STRUCTURE/300 S.F. = 3 PEOPLE
- EXITS REQUIRED:
 REST STOP: 2 REQD.
 MAINTENANCE SHED: 1 EACH STRUCTURE
- EXITS PROVIDED:
 REST STOP: 8
 MAINTENANCE SHED: 1 EACH
- DESIGN LOADS: SEE STRUCTURAL SHEETS

- ## LOCATION PLANS



	GYPSUM BOARD		METAL		SECTION IDENTIFICATION 1 A-4 SHEET NUMBER		3 WALL TYPE INDICATOR
	BATT INSULATION		PLYWOOD		DETAIL IDENTIFICATION 8 A-8 SHEET NUMBER		— C — CENTER LINE
	RIGID INSULATION		ROUGH WOOD		ELEVATION IDENTIFICATION 8 A-8 SHEET NUMBER		02 DOOR IDENTIFICATION
	FACE BRICK		FINISH WOOD				1 WORK POINT / ELEVATION REVISION INDICATOR
	CONCRETE BLOCK		ACOUSTIC TILE		ROOM 100 ROOM NAME / NUMBER		3 ACCESSORY INDICATOR

PLOT DATE 13-JUL-2004	DATE AUGUST, 2004	T-1.2
--------------------------	----------------------	-------

Professional Seal of Roger B. Booker, Registered Architect, State of Ohio, No. 12650.

T-1.2

CERTIFICATION

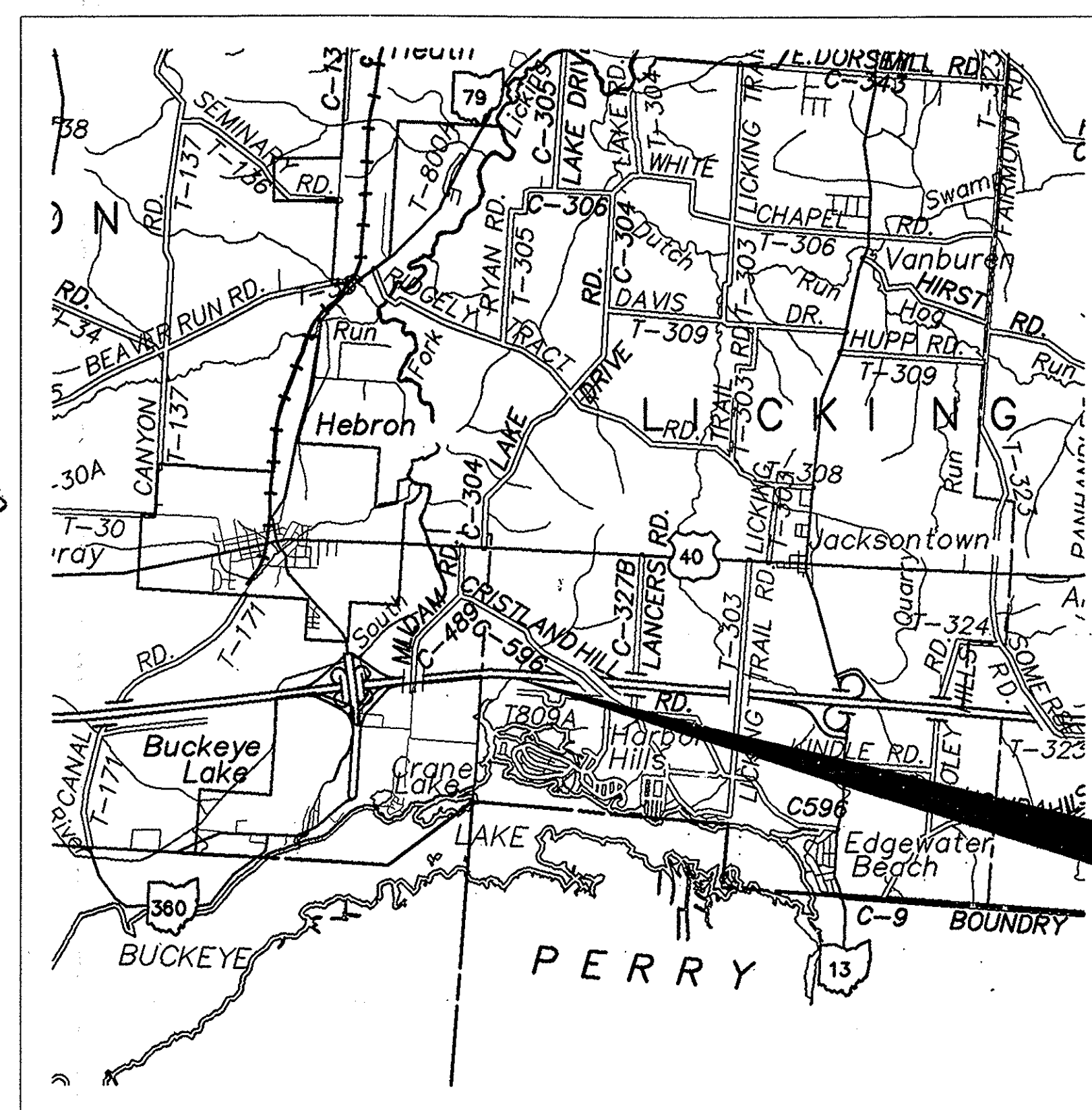
I hereby certify to the State Architects Office, its agents and employees that (a) this survey was prepared by me or under my supervision, (b) the legal description of the property as set forth herein, and the location of all improvements, encroachments, fences, easements, roadways, and rights of way which are either visible or of record in Licking County, Ohio, are accurately reflected hereon, (c) this survey accurately depicts the state of facts as they appear on the ground, (d) except as shown hereon, there are no improvements, encroachments, fences or roadways on any portion of the property reflected hereon, (e) the property is not in a flood hazard zone and is not in a wetlands, flood plains, coastal zone designation or otherwise environmentally sensitive area, (f) the property surveyed contains 69.682 acres, more or less. Any discharge into streams, rivers, or other conveyance systems is shown on the survey.

Date: 02/26/04

Kevin P. Carpenter P.S. 8124
WD Partners
1201 Dublin Road
Columbus, OH 43215
T (614) 324-5539
F (614) 221-2484

LICKING COUNTY REST AREA PROTOTYPICAL REST STOP DESIGN

OHIO DEPARTMENT OF TRANSPORTATION LICKING COUNTY, OHIO



LOCATION MAP

Scale: 1" = 5280'

UTILITY CONTACTS

Ohio Department of Transportation, District 5
9600 Jacksonstown Road
Jacksonstown, OH 43030
(740) 323-4400

ALLTEL Ohio, Inc.
66 North Fourth Street
Newark, OH 43055
740-349-8551

Village of Buckeye Lake
5192 Walnut Road
Buckeye Lake, OH 43008
(740) 928-7100

Dominion Transmission Engineering Department
7015 Freedom Ave., NW
North Canton, OH
(330) 497-2147

Licking County Water & Sewer
65 East Main Street
Newark, OH 43055
(740) 349-6540

Licking Rural Electric, Inc.
11339 Mount Vernon Road, NE
Utica, OH 43080-0455
(740) 892-2791

Nation Gas & Oil
1500 Granville Road
Newark, OH 43055
(740) 344-2101

SBC
150 East Gay Street
6th Floor
Columbus, OH 43215
(614) 223-8535

Sprint Local
P.O. Box 1031
Pataskala, OH 43062
(740) 927-8301

Time Warner Cable
1266 Dublin Road
Columbus, OH 43215
(614) 481-5263

Ohio Power Company
777 Hopewell Drive
Heath, OH 43056
(800) 672-2231

DESCRIPTION

See sheet CS1.7 for complete legal description.

BASIS OF BEARING

The bearings contained herein are based on Ohio State Plane NAD83 (95) - Grid and are shown to indicate angles only.

ENCROACHMENTS

There are no known or evident encroachments on the subject property.

AREA

69.682 Acres

FLOOD PLAIN

Property lies within Zone C (area of minimal flooding). The area lies within Community Panel Number 390328 0200 B, effective date December 1, 1983.

BENCHMARK

Basis of elevation - J 190 (PID JY0002); Benchmark Disk found in small concrete drain wall south side of Moon River Lane, 2 miles south of Jacksonstown, east of Buckeye Lake
Elevation902.29 (USGS NAVD88)

Project Site

#1 Iron Pin Found, Sta. 939+25.20, 184.43' Lt.
Elevation 900.20

#2 Iron Pin Found, Sta. 940+00.52, 330.17' Rt.
Elevation 906.42

#3 Concrete Monument, Sta. 952+19.93, 495.15' Lt.
Elevation 911.17

#4 Iron Pin Found, Sta. 958+90.61, 809.94' Rt.
Elevation 909.63

#5 Iron Pin Found, Sta. 969+01.05, Sta. 119.72' Rt.
Elevation 919.93

INDEX OF SHEETS

CS1.1		Title Sheet
CS1.2		Index of Survey Sheets
CS1.3		Detail Survey
CS1.4		Detail Survey
CS1.5		Detail Survey
CS1.6		Detail Survey
CS1.7		Detail Survey
CS1.8		Detail Survey & Property Description

NOTES

- The location of the underground utilities shown on this plat are as obtained from field observation, Owner marking, and Owner provided plans.
- Directions and distances shown on this survey based on an adjusted traverse.
- Subsurface and environmental conditions were not examined or considered a part of this survey.
- Source Data (from Ohio Department of Transportation):
LIC-70-17.13
LIC-70-15.96/LIC-13-1.38
LIC-40-14.81

UTILITY STATEMENT

The Surveyor makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The Surveyor further does not warrant that the underground utilities shown are in the exact location indicated although he does certify that they are located as accurately as possible from the information available. The Surveyor has not physically located the underground utilities.

LEGEND

OMBS	Magnetic Nail Set	⊠	Electric Meter
● I.R.S.	Iron Pin Set	⊠	Electric Box
○ I.R.F.	Iron Pin Found	⊠	Traffic Box
⊠	Sanitary Manhole	⊠	Fire Hydrant
⊠	Catch Basin	⊠	Water Valve
⊠	Catch Basin	⊠	Water Meter
⊠	Curb Inlet	⊠	Sign
⊠	Telephone Manhole	⊠	Two Post Sign
⊠	Telephone Pedestal Box	⊠	Post
+ TEL	Telephone Line Marker	⊠	Unknown Utility Valve
⊠	Telephone Pole	⊠	Grill
⊠	Telephone Power Pole	⊠	Shrub/Bush
⊠	Power Pole	⊠	Evergreen Tree
⊠	Light Pole	⊠	Tree Stump
<	Guy Wire Anchor	⊠	Deciduous Tree
⊠	Wetland Area		



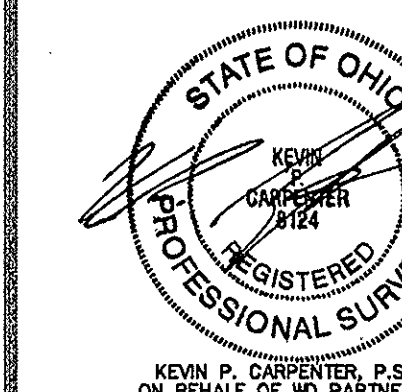
1201 Dublin Road
Columbus, Ohio 43215-1028
T 614.221.0840
F 614.221.2484
Inbox@wdpartners.com
wdpartners.com

Columbus
Dallas
Los Angeles
Chicago
Miami

expesite.com

INTERSTATE 70
LICKING COUNTY, OH

PREPARED UNDER THE DIRECT
SUPERVISION OF:



SCALE: N/A
DATE: 10/15/03
DRAWN: BJW
CHECKED: KPC
VERSION: 1

REVISIONS

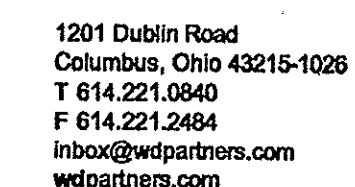
1 02/26/04

1 02/26/04

WD PROJECT NUMBER
0057.046-00

CS1.1

TITLE SHEET

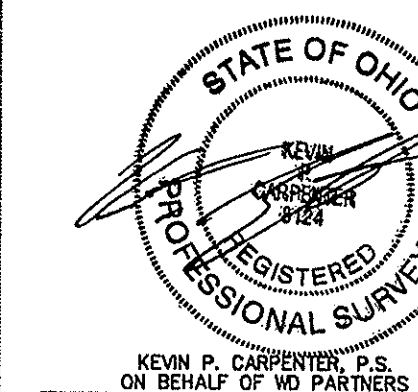


Columbus
Dallas
Los Angeles
Chicago
Miami

expesite.com

INTERSTATE 70
LICKING COUNTY, OH

PREPARED UNDER THE DIRECT
SUPERVISION OF:



SCALE:	N/A
DATE:	10/15/03
DRAWN:	BJW
CHECKED:	KPO
VERSION:	

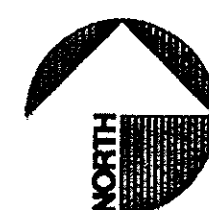
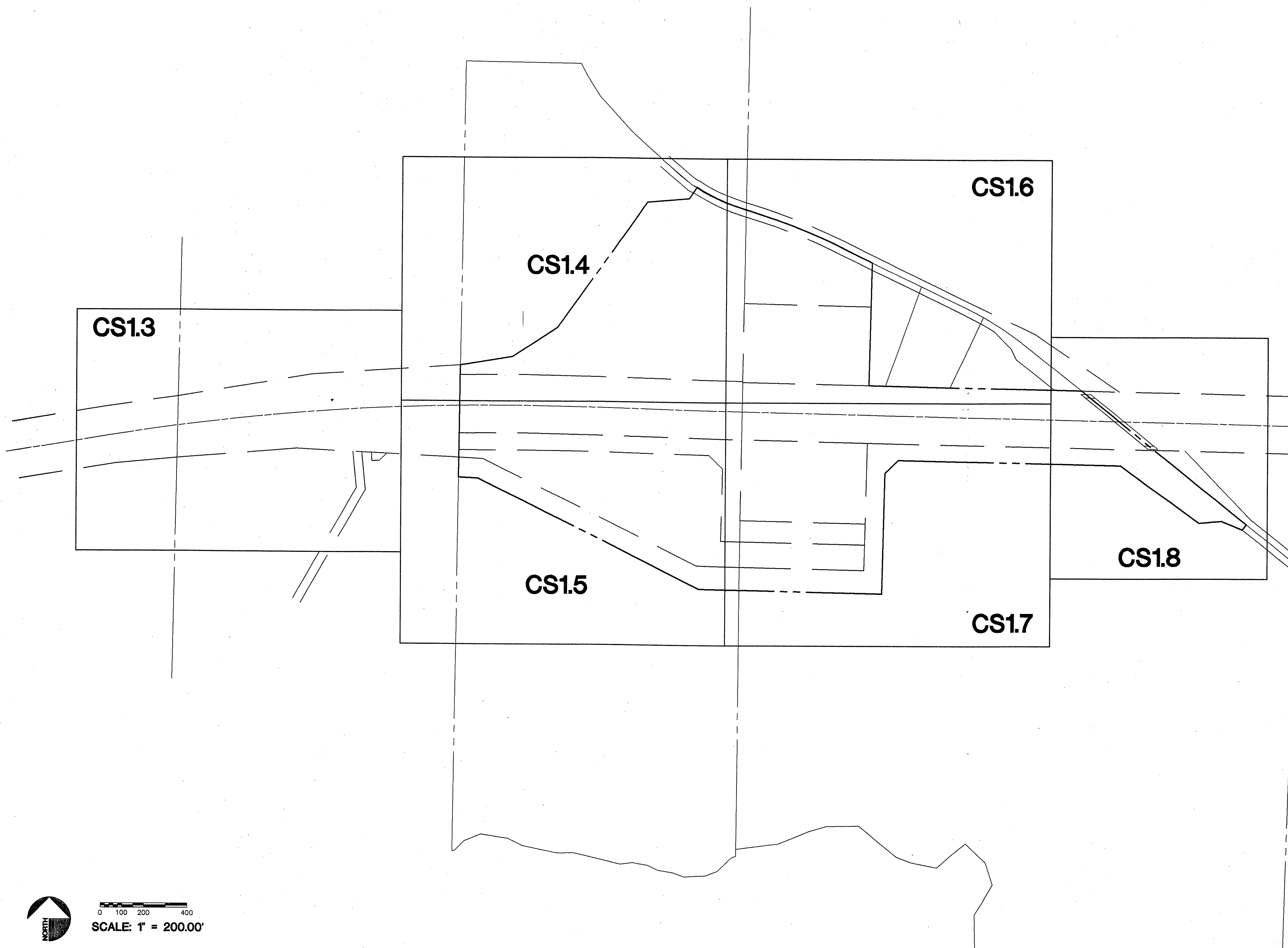
REVISIONS

1 02/26/0

INDEX OF SHEETS

WD PROJECT NUMBER
0057.046-00

CS1.2



0 100 200 400
SCALE: 1" = 200.00

UNION TOWNSHIP
LICKING TOWNSHIP

ENGLEMAN FAMILY LIMITED
PARTNERSHIP
O.R. 906, PG. 93

STORM SEWERS

- ③ TC 900.78
INV. 18" N 896.80
INV. 15" S 896.96
INV. 15" E 897.05

- ④ TC 903.87
INV. 15" N 898.54
INV. 15" S 898.76

SANITARY SEWERS

- ① TC 903.76
INV. 12" 890.78

- ② TC 903.28
INV. 12" SW 890.32
INV. 12" N 890.49
INV. 6" NE 890.71

STA: 932+50
OFFSET: 170.00' L

STA: 926+29.94
OFFSET: 130.00' L

STA: 925+88.50
OFFSET: 146.10' R

STA: 931+50
OFFSET: 160.00' R

ENGLEMAN FAMILY LIMITED
PARTNERSHIP
O.R. 906, PG. 93

SANITARY SEWERS

- ⑧ TC 897.60
INV. 15" SE 889.32
INV. 12" NW 889.42
INV. 6" NE 889.45

- ⑨ TC 895.86
INV. 15" SW 885.85
INV. 15" NW 888.90

- ⑩ TC 894.78
INV. 15" SW 886.78
INV. 15" NE 887.97

STORM SEWERS

- ③ TC 900.90
INV. 15" N 897.17

- ③ TC 900.78
INV. 18" N 896.80
INV. 15" S 896.96
INV. 15" E 897.05

- ④ TC 904.38
INV. 15" N 899.05

- ④ TC 903.87
INV. 15" N 898.54
INV. 15" S 898.76

40.00' SANITARY EASEMENT

CHANNEL EASEMENT

SCALE: 1" = 50.00'

MATCH LINE SEE SHEET CS1.4

MATCH LINE SEE SHEET CS1.5



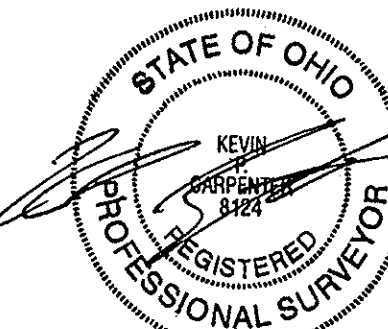
1201 Dublin Road
Columbus, Ohio 43215-1026
T 614.221.0840
F 614.221.2484
info@wdpartners.com
wdpartners.com

Columbus
Dallas
Los Angeles
Chicago
Miami

expesite.com

INTERSTATE 70
LICKING COUNTY, OH

PREPARED UNDER THE DIRECT
SUPERVISION OF:



KEVIN P. CARPENTER, P.S.
ON BEHALF OF WD PARTNERS

SCALE: N/A
DATE: 10/15/03
DRAWN: BJW
CHECKED: KPC
VERSION: 1

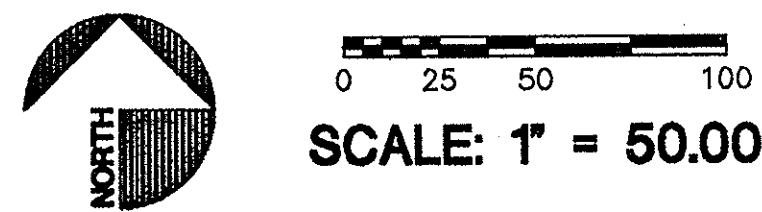
REVISIONS

1 2/26/04

DETAIL SURVEY

WD PROJECT NUMBER
0057.046-00

CS1.3



ENGLEMAN FAMILY LIMITED
PARTNERSHIP
O.R. 906, PG. 93

SANITARY SEWERS

- ③ TC 901.78
Inv. 6" W 891.60
Inv. 6" E 891.61
- ④ TC 902.10
Inv. 6" W 893.76
Inv. 6" E 893.88
- ⑤ TC 907.54
Inv. 6" W 899.15
Inv. 6" E 899.24
- ⑥ TC 910.75
Inv. 6" W 904.29
Inv. 6" NE 904.43

ROBERT D. & KATHRYN J.
GROSSE
O.R. 367, PG. 712

ROBERT D. & KATHRYN J.
GROSSE
O.R. 367, PG. 712

R = 818.51'
L = 227.75'
 $\Delta = 15^\circ 56' 33''$
CH. BRG. = S $65^\circ 28' 16''$ E
CH. DIST. = 227.02'
STA: 949+85.49
OFFSET: 1009.48' L

STA: 947+59.90
OFFSET: 933.85' L

STA: 949+52.40
OFFSET: 954.99' L

STA: 943+58.84
OFFSET: 359.64' L

STA: 941+60
OFFSET: 225.00' L

STA: 939+22.31
OFFSET: 139.3530 L

INTERSTATE 70 (WESTBOUND)

INV. 15" S 900.16

ASPHALT

INV. 15" S 900.97

MATCH LINE SEE SHEET CS. 1.6

MATCH LINE SEE SHEET CS1.5



1201 Dublin Road
Columbus, Ohio 43215-1026
T 614.221.0840
F 614.221.2484
info@wdpartners.com
wdpartners.com

Columbus
Dallas
Los Angeles
Chicago
Miami

expesite.com

INTERSTATE 70
LICKING COUNTY, OH

PREPARED UNDER THE DIRECT
SUPERVISION OF



KEVIN P. CARPENTER, P.E.
ON BEHALF OF WD PARTNERS

SCALE: N/A
DATE: 10/15/03
DRAWN: BJW
CHECKED: KPC
VERSION: 1

REVISIONS

NO.	DATE	DESCRIPTION
1	02/26/04	

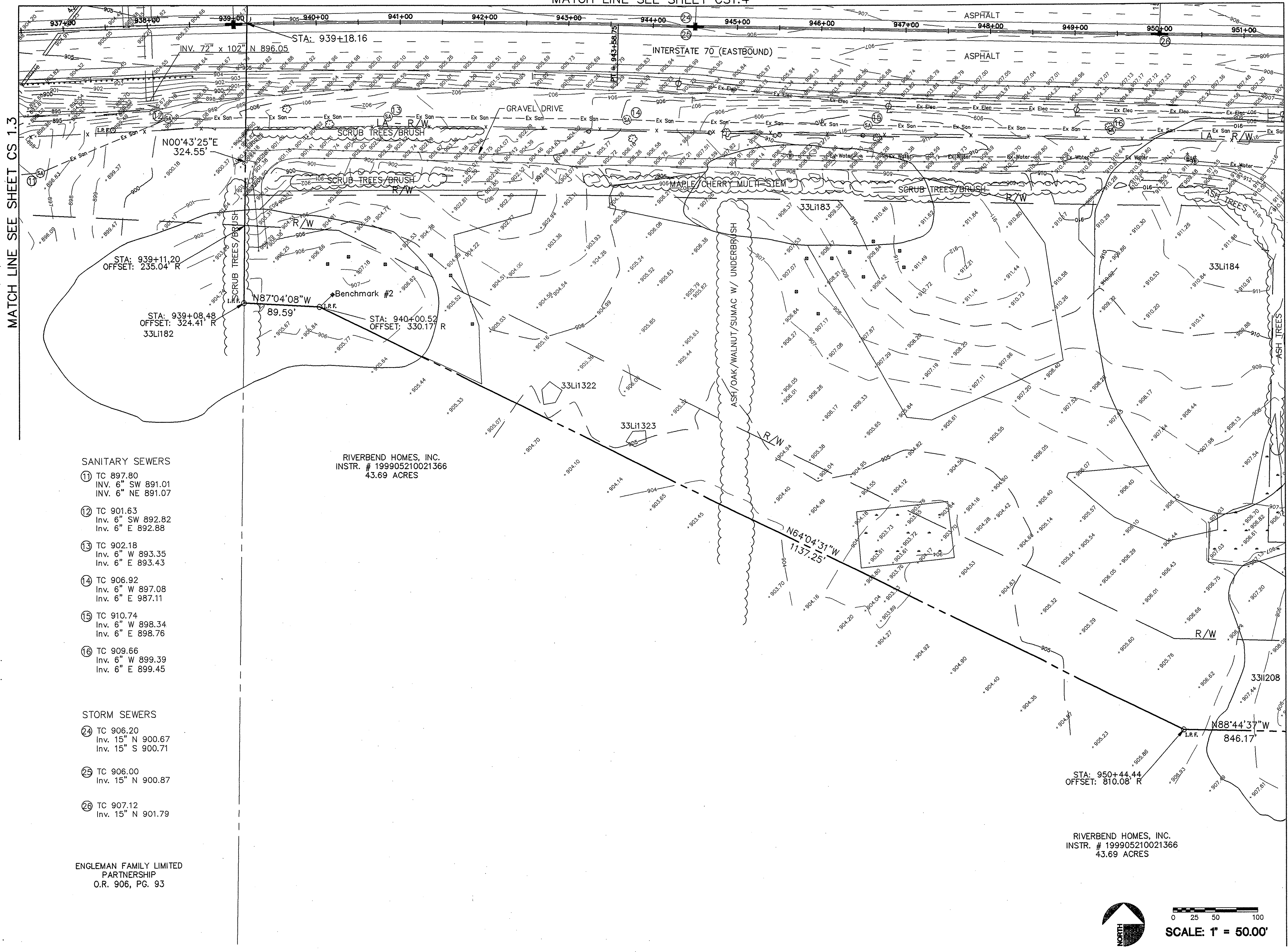
WD PROJECT NUMBER
0057.046-00

CS1.4

DETAIL SURVEY

MATCH LINE SEE SHEET CS1.4

MATCH LINE SEE SHEET CS 1.3



SANITARY SEWERS

- 11 TC 897.80
Inv. 6" SW 891.01
Inv. 6" NE 891.07
- 12 TC 901.63
Inv. 6" SW 892.82
Inv. 6" E 892.88
- 13 TC 902.18
Inv. 6" W 893.35
Inv. 6" E 893.43
- 14 TC 906.92
Inv. 6" W 897.08
Inv. 6" E 987.11
- 15 TC 910.74
Inv. 6" W 898.34
Inv. 6" E 898.76
- 16 TC 909.66
Inv. 6" W 899.39
Inv. 6" E 899.45

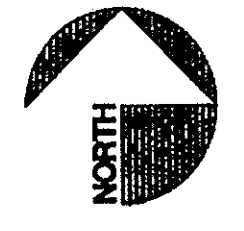
STORM SEWERS

- 24 TC 906.20
Inv. 15" N 900.67
Inv. 15" S 900.71
- 25 TC 906.00
Inv. 15" N 900.87
- 26 TC 907.12
Inv. 15" N 901.79

ENGLEMAN FAMILY LIMITED
PARTNERSHIP
O.R. 906, PG. 93

RIVERBEND HOMES, INC.
INSTR. # 199905210021366
43.69 ACRES

RIVERBEND HOMES, INC.
INSTR. # 199905210021366
43.69 ACRES



0 25 50 100
SCALE: 1" = 50.00'

MATCH LINE SEE SHEET 1.7



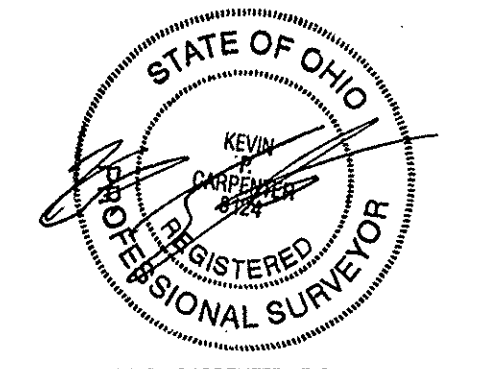
1201 Dublin Road
Columbus, Ohio 43215-1028
T 614.221.2840
F 614.221.2844
info@wdpartners.com
wdpartners.com

Columbus
Dallas
Los Angeles
Chicago
Miami

expesite.com

INTERSTATE 70
LICKING COUNTY, OH

PREPARED UNDER THE DIRECT
SUPERVISION OF:



KEVIN P. CARPENTER, P.S.
ON BEHALF OF WD PARTNERS

SCALE:	N/A
DATE:	10/15/03
DRAWN:	BJW
CHECKED:	KPC
VERSION:	1

REVISIONS

1	02/26/04
---	----------

WD PROJECT NUMBER
0057.046-00

CS1.5

DETAIL SURVEY



0 25 50 100
SCALE: 1" = 50.00'



1201 Dublin Road
Columbus, Ohio 43215-1026
T 614.221.0840
F 614.221.2484
inbox@wdpartners.com
wdpartners.com

Columbus
Dallas
Los Angeles
Chicago
Miami

expesite.com

TREE SPECIES INDEX

AP - AUSTRIAN PINE
ARB - ARBORVITAE
AS - ALBERTA SPRUCE
B - BEECH
BC - BALD CYPRESS
BU - BUCKEYE
C - CHERRY
CA - CRAB APPLE
CC - CERCIS CANADENSIS
CH - CELTIS HACKBERRY
De - * INDICATES DEAD TREE
EA - EUONYMUS ALATA
GA - GREEN ASH
H - HEMLOCK
HA - HAWTHORNE
HL - HONEY LOCUST
M - MAPLE
NS - NORWAY SPRUCE
PO - PIN OAK
RM - RED MAPLE
S - SPRUCE
SIM - SILVER MAPLE
SM - SUGAR MAPLE
SO - SHUMARD OAK
T - TILIA
UP - ULMUS PARVIFLORA
W - WALNUT
WA - WHITE ASH

STORM SEWERS

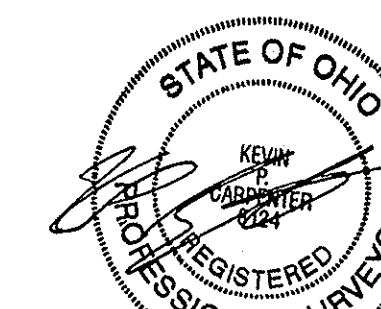
- ② TC 910.16
Inv. 15" S 906.05
Inv. 8" NW 907.05
Inv. 8" NE 907.09
- ② TC 909.48
Inv. 15" S 905.78
Inv. 15" N 905.92
- ② TC 908.71
Inv. 15" S 903.48
Inv. 15" N 903.62
- ③ TC 905.70
Inv. 24" W 902.17
Inv. 15" N 902.31
Inv. 24" S 902.33

SANITARY SEWERS

- ⑦ TC 916.70
Inv. 6" SW 907.30
Inv. 6" NE 907.36

INTERSTATE 70
LICKING COUNTY, OH

PREPARED UNDER THE DIRECT
SUPERVISION OF:



KEVIN P. CARPENTER, P.S.
ON BEHALF OF WD PARTNERS

SCALE: N/A
DATE: 10/15/03
DRAWN: BJW
CHECKED: KPC
VERSION: 1

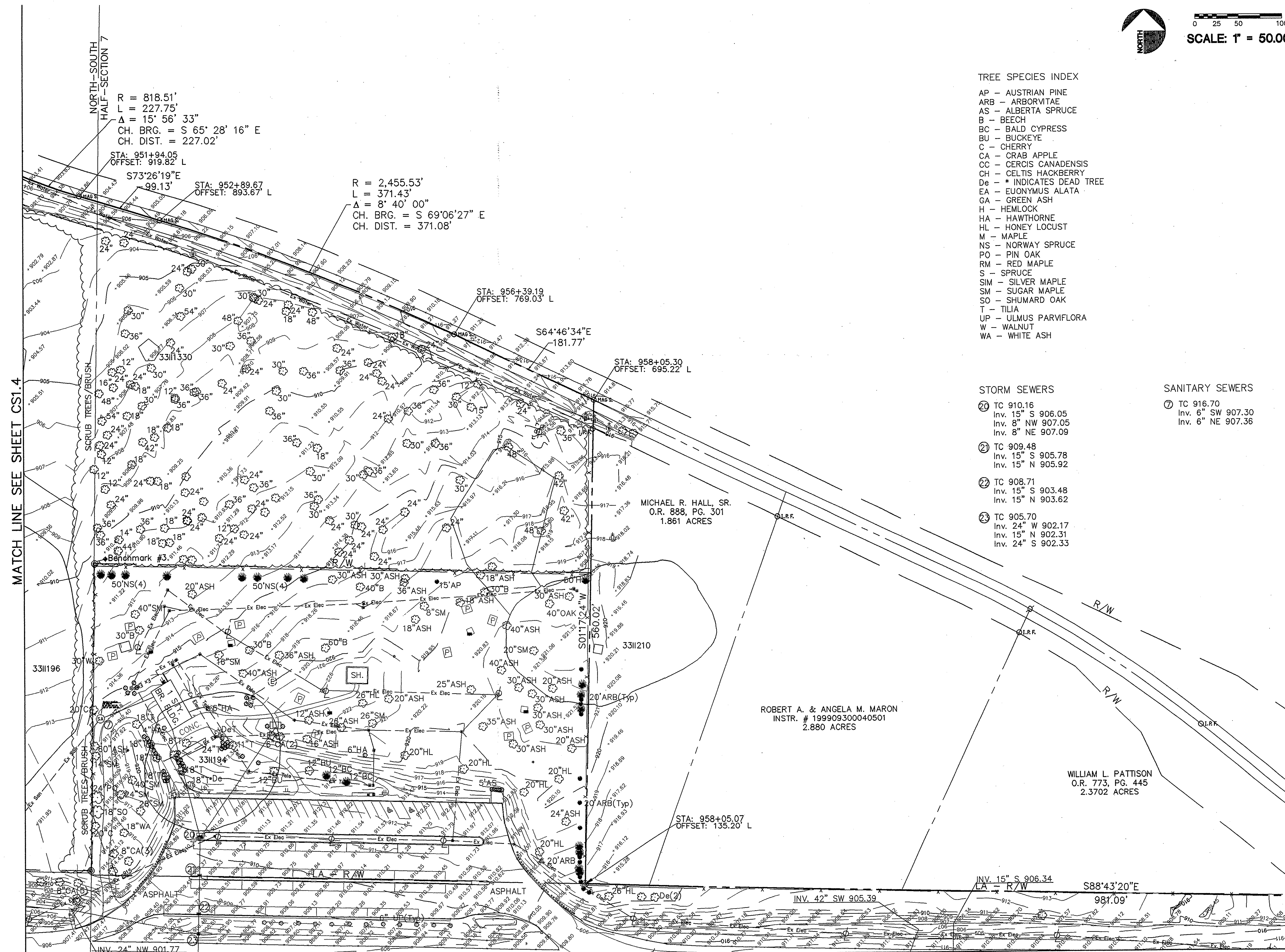
REVISIONS

NO.	DATE	DESCRIPTION
1	02/26/04	

WD PROJECT NUMBER
0057.046-00

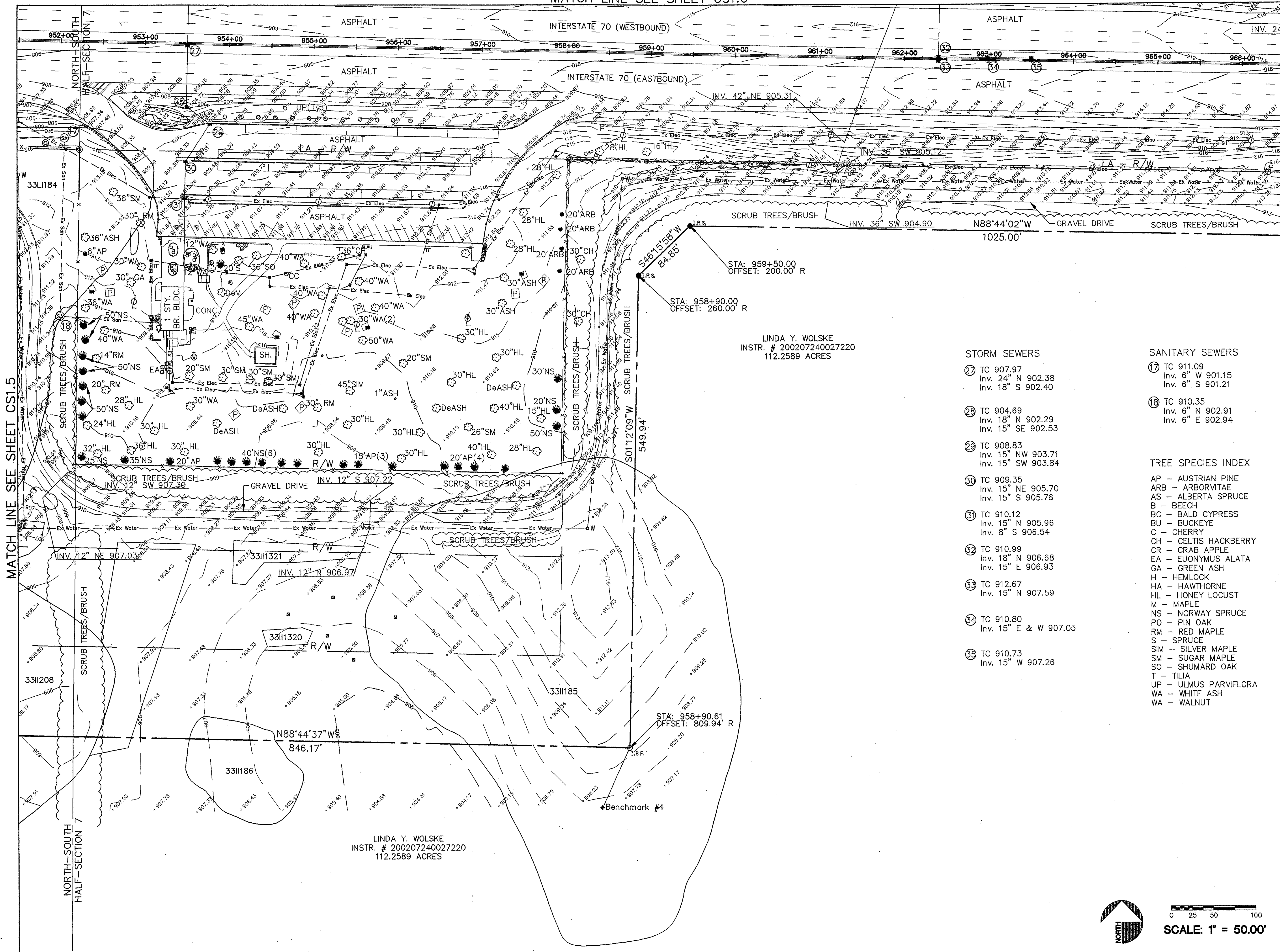
CS1.6

DETAIL SURVEY



MATCH LINE SEE SHEET CS1.7

MATCH LINE SEE SHEET CS1.6



LINDA Y. WOLSKE
INSTR. # 200207240027220
112.2589 ACRES

STORM SEWERS

- 27 TC 907.97
Inv. 24" N 902.38
Inv. 18" S 902.40
- 28 TC 904.69
Inv. 18" N 902.29
Inv. 15" SE 902.53
- 29 TC 908.83
Inv. 15" NW 903.71
Inv. 15" SW 903.84
- 30 TC 909.35
Inv. 15" NE 905.70
Inv. 15" S 905.76
- 31 TC 910.12
Inv. 15" N 905.96
Inv. 8" S 906.54
- 32 TC 910.99
Inv. 18" N 906.68
Inv. 15" E 906.93
- 33 TC 912.67
Inv. 15" N 907.59
- 34 TC 910.80
Inv. 15" E & W 907.05
- 35 TC 910.73
Inv. 15" W 907.26

SANITARY SEWERS

- 17 TC 911.09
Inv. 6" W 901.15
Inv. 6" S 901.21
- 18 TC 910.35
Inv. 6" N 902.91
Inv. 6" E 902.94

TREE SPECIES INDEX

- AP - AUSTRIAN PINE
- ARB - ARBORVITAE
- AS - ALBERTA SPRUCE
- B - BEECH
- BC - BALD CYPRESS
- BU - BUCKEYE
- C - CHERRY
- CH - CELTIS HACKBERRY
- CR - CRAB APPLE
- EA - EUONYMUS ALATA
- GA - GREEN ASH
- H - HEMLOCK
- HA - HAWTHORNE
- HL - HONEY LOCUST
- M - MAPLE
- NS - NORWAY SPRUCE
- PO - PIN OAK
- RM - RED MAPLE
- S - SPRUCE
- SIM - SILVER MAPLE
- SM - SUGAR MAPLE
- SO - SHUMARD OAK
- T - TILIA
- UP - ULMUS PARVIFLORA
- WA - WHITE ASH
- W - WALNUT



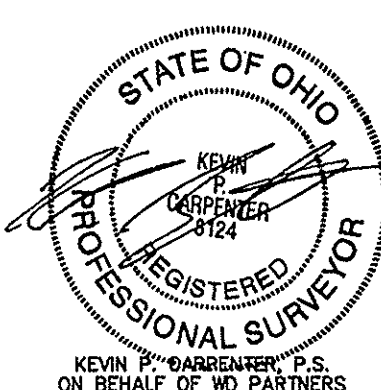
1201 Dublin Road
Columbus, Ohio 43215-1026
T 614.221.0840
F 614.221.2484
inbex@wdpartners.com
wdpartners.com

Columbus
Dallas
Los Angeles
Chicago
Miami

expesite.com

INTERSTATE 70
LICKING COUNTY, OH

PREPARED UNDER THE DIRECT
SUPERVISION OF:

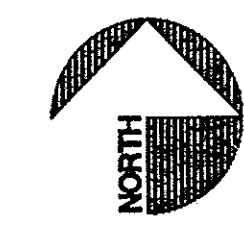


SCALE: N/A
DATE: 10/15/03
DRAWN: BJW
CHECKED: KPC
VERSION: 1

REVISIONS
1 02/26/04

WD PROJECT NUMBER
0057.046-00

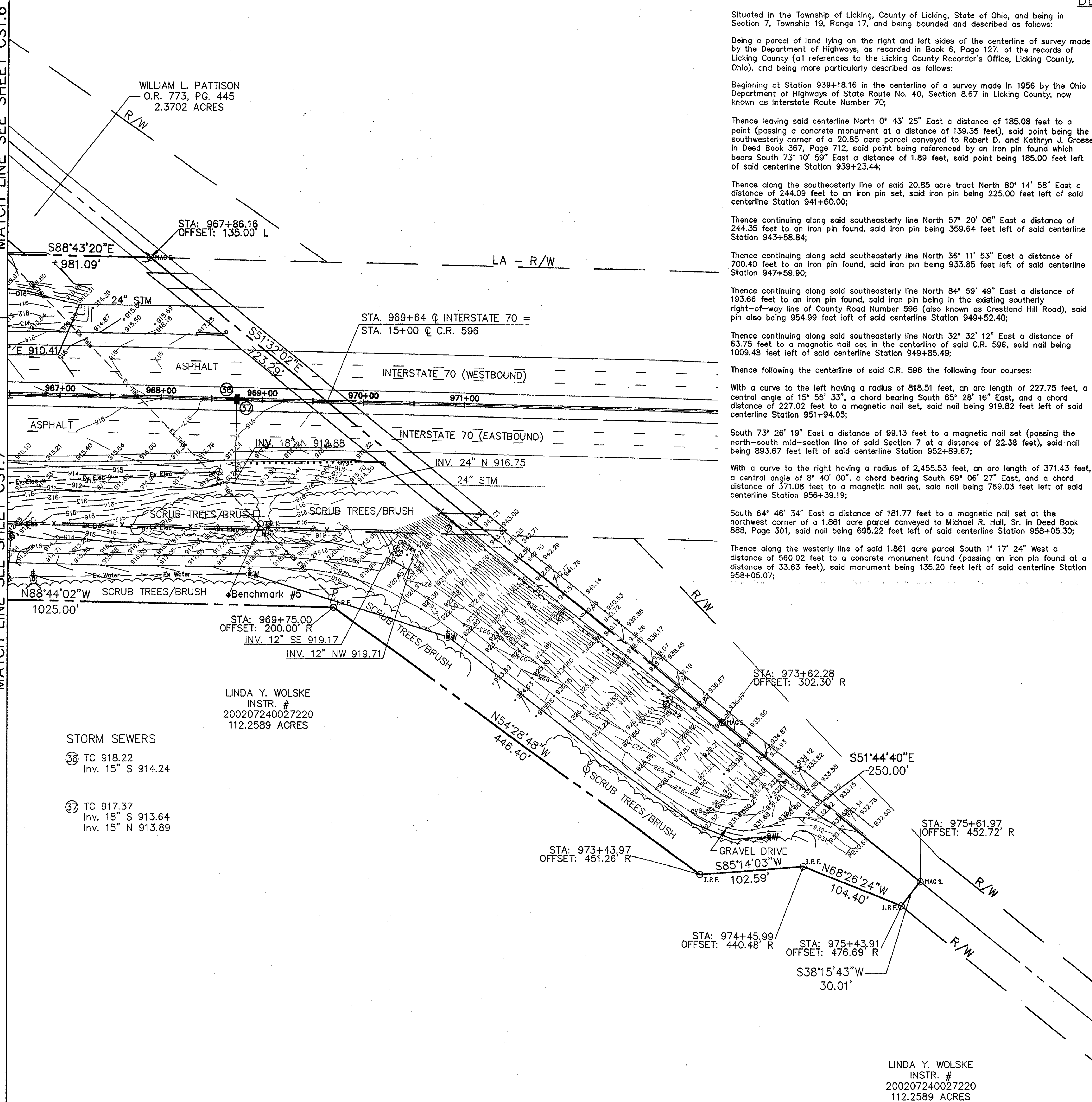
CS1.7



SCALE: 1" = 50.00'

DETAIL SURVEY

MATCH LINE SEE SHEET CS1.6
MATCH LINE SEE SHEET CS1.7



DESCRIPTION

Situated in the Township of Licking, County of Licking, State of Ohio, and being in Section 7, Township 19, Range 17, and being bounded and described as follows:

Being a parcel of land lying on the right and left sides of the centerline of survey made by the Department of Highways, as recorded in Book 6, Page 127, of the records of Licking County (all references to the Licking County Recorder's Office, Licking County, Ohio), and being more particularly described as follows:

Beginning at Station 939+18.16 in the centerline of a survey made in 1956 by the Ohio Department of Highways of State Route No. 40, Section 8.67 in Licking County, now known as Interstate Route Number 70;

Thence leaving said centerline North 0° 43' 25" East a distance of 185.08 feet to a point (passing a concrete monument at a distance of 139.35 feet), said point being the southwesterly corner of a 20.85 acre parcel conveyed to Robert D. and Kathryn J. Grosse in Deed Book 367, Page 712, said point being referenced by an iron pin found which bears South 73° 10' 59" East a distance of 1.89 feet, said point being 185.00 feet left of said centerline Station 939+23.44;

Thence along the southeasterly line of said 20.85 acre tract North 80° 14' 58" East a distance of 244.09 feet to an iron pin set, said iron pin being 225.00 feet left of said centerline Station 941+60.00;

Thence continuing along said southeasterly line North 57° 20' 06" East a distance of 244.35 feet to an iron pin found, said iron pin being 359.64 feet left of said centerline Station 943+58.84;

Thence continuing along said southeasterly line North 36° 11' 53" East a distance of 700.40 feet to an iron pin found, said iron pin being 933.85 feet left of said centerline Station 947+59.90;

Thence continuing along said southeasterly line North 84° 59' 49" East a distance of 193.66 feet to an iron pin found, said iron pin being in the existing southerly right-of-way line of County Road Number 596 (also known as Crestland Hill Road), said pin also being 954.99 feet left of said centerline Station 949+52.40;

Thence continuing along said southeasterly line North 32° 32' 12" East a distance of 63.75 feet to a magnetic nail set in the centerline of said C.R. 596, said nail being 1009.48 feet left of said centerline Station 949+85.49;

Thence following the centerline of said C.R. 596 the following four courses:

With a curve to the left having a radius of 818.51 feet, an arc length of 227.75 feet, a central angle of 15° 56' 33", a chord bearing South 65° 28' 16" East, and a chord distance of 227.02 feet to a magnetic nail set, said nail being 919.82 feet left of said centerline Station 951+94.05;

South 73° 26' 19" East a distance of 99.13 feet to a magnetic nail set (passing the north-south mid-section line of said Section 7 at a distance of 22.38 feet), said nail being 893.67 feet left of said centerline Station 952+89.67;

With a curve to the right having a radius of 2,455.53 feet, an arc length of 371.43 feet, a central angle of 8° 40' 00", a chord bearing South 69° 06' 27" East, and a chord distance of 371.08 feet to a magnetic nail set, said nail being 769.03 feet left of said centerline Station 956+39.19;

South 64° 46' 34" East a distance of 181.77 feet to a magnetic nail set at the northwest corner of a 1.861 acre parcel conveyed to Michael R. Hall, Sr. in Deed Book 888, Page 301, said nail being 695.22 feet left of said centerline Station 958+05.30;

Thence along the westerly line of said 1.861 acre parcel South 1° 17' 24" West a distance of 560.02 feet to a concrete monument found (passing an iron pin found at a distance of 33.63 feet), said monument being 135.20 feet left of said centerline Station 958+05.07;

Thence South 88° 43' 20" East a distance of 981.09 feet to a magnetic nail set in the centerline of said C.R. 596, said nail being 135.00 feet left of said centerline Station 967+86.16;

Thence following the centerline of said C.R. 596 the following two courses:

South 51° 32' 02" East a distance of 723.29 feet (passing through said centerline Station 969+64.00 at a distance of 223.29 feet) to a magnetic nail set, said nail being 302.30 feet right of said centerline Station 973+62.28;

South 51° 44' 40" East a distance of 250.00 feet to a magnetic nail set, said nail being the northeasterly corner of a 112.2589 acre tract conveyed to Linda Y. Wolske in Instrument Number 200207240027220, said nail also being 452.72 feet right of said centerline Station 975+61.97;

Thence leaving said centerline with the northerly line of said 112.2589 acre tract South 38° 15' 43" West a distance of 30.01 feet to an iron pin found, said iron pin being 476.69 feet right of said centerline Station 975+43.91;

Thence continuing along said northerly line North 68° 26' 24" West a distance of 104.40 feet to an iron pin found, said iron pin being 440.48 feet right of said centerline Station 974+45.99;

Thence continuing along said northerly line South 85° 14' 03" West a distance of 102.59 feet to an iron pin found, said iron pin being 451.26 feet right of said centerline Station 973+43.97;

Thence continuing along said northerly line North 54° 28' 48" West a distance of 446.40 feet to an iron pin found, said iron pin being 200.00 feet right of said centerline Station 969+75.00;

Thence continuing along said northerly line North 88° 44' 02" West a distance of 1,025.00 feet to an iron pin set, said iron pin being 200.00 feet right of said centerline Station 959.50+00;

Thence continuing along said northerly line South 46° 15' 58" West a distance of 84.85 feet to an iron pin set, said iron pin being 260.00 feet right of said centerline Station 958+90.00;

Thence continuing along said northerly line South 01° 12' 09" West a distance of 549.94 feet to an iron pin found, said iron pin being 809.94 feet right of said centerline Station 958+90.61;

Thence continuing along said northerly line North 88° 44' 37" West a distance of 846.17 feet to an iron pin found (passing the north-south mid-section line of said Section 7 at a distance of 660.56 feet, also being the northwesterly corner of said 112.2589 acre tract, also being the northeast corner of a 43.69 acre parcel conveyed to RiverBend Homes, Inc. in Instrument Number 199905210021366), said iron pin being 810.08 feet right of said centerline Station 950+44.44;

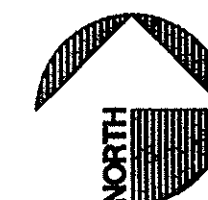
Thence continuing along the northerly line of said 43.69 acre tract North 64° 04' 31" West a distance of 1,137.25 feet to an iron pin found, said iron pin being 330.17 feet right of said centerline Station 940+00.52;

Thence continuing along said northerly line North 87° 04' 08" West a distance of 89.59 feet to an iron pin found, said iron pin being 324.41 feet right of said centerline Station 939+08.48;

Thence North 0° 43' 25" East a distance of 324.55 feet to the TRUE PLACE OF BEGINNING, containing 69.682 acres, more or less.

UTILITY STATEMENT

The Surveyor makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The Surveyor further does not warrant that the underground utilities shown are in the exact location indicated although he does certify that they are located as accurately as possible from the information available. The Surveyor has not physically located the underground utilities.



0 25 50 100
SCALE: 1" = 50.00'



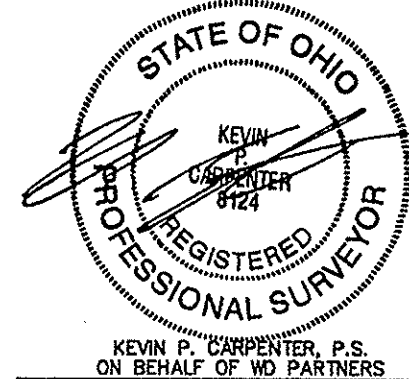
1201 Dublin Road
Columbus, Ohio 43215-1026
T 614.221.0840
F 614.221.2484
lbox@wdpartners.com
wdpartners.com

Columbus
Dallas
Los Angeles
Chicago
Miami

expesite.com

INTERSTATE 70
LICKING COUNTY, OH

PREPARED UNDER THE DIRECT
SUPERVISION OF:



SCALE: N/A
DATE: 10/15/03
DRAWN: BJW
CHECKED: KPC
VERSION: 1

REVISIONS
1 02/26/04

WD PROJECT NUMBER
0057.046-00

CS1.8

DETAIL SURVEY

CALL BEFORE YOU DIG

In order to located underground utilities, the other Contractor shall call The Ohio Utilities Protection Service (OUPS) at 1-800-362-2764 a minimum of 48 hours prior to any earthwork operations.

STANDARD SPECIFICATIONS

All work shown and referenced in these plans are to be in accordance with the latest edition of the Ohio Department of Transportation (ODOT) Construction and Material Specifications (CMS). Work shall conform to the Item Number listed including all paragraphs and sub-sections and additions and modifications to these specifications as shown on these plans and included in the project documents.

STANDARD DRAWINGS

Standard Drawings referenced in these plans are included in the Detail Sheets Section of the Civil/Site Drawings. Sheets C5.03 To C5.13.

ITEM 201 - CLEARING AND GRUBBING

Remove all trees, brush, vegetation and other items specified in Item 201 within the earthwork limits of the project. All trees and vegetation outside the earthwork limits shall remain and shall not be disturbed.

All trees and stumps within the earthwork limits are to be removed as part of the base bid unless specifically identified on the plans to remain. Trees that are to remain shall be protected in such a way as to ensure that construction activities around the trees do not cause damage to the tree and the root system.

ITEM 202 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS

Remove all structures and obstructions shown on the plan sheets and dispose of (unless specifically identified for storage) in a safe and legal manner. Remove all underground piping, conduit and foundations interfering with new construction. All of the removal shall be in accordance with Item 202.

Items specifically marked for storage and/or re-use shall be stored on site in a location approved by the Associate and shall be protected from damage from construction activities.

LIGHT POLE REMOVED AND RETURNED TO OWNER

All existing light poles are to be removed and returned to owner and shall include the light pole, mast arms, breakaway base, luminaire, ballast and high-pressure sodium bulb. Light poles are to be removed in a safe manner that does not cause damage to the items and stored on-site in a location to be approved by the Associate. Upon approval of the Owner and Engineer, the light poles and all appurtenances will be delivered, by the Contractor, to the Licking County Garage located at 9600 Jacksonville Road, Jacksonville Oh 43030.

PROTECTION OF ARCHEOLOGICAL SITES

Archeological sites 33L1183 and 33L1185 as indicated on sheet C3.03 are eligible for inclusion in the National Register of Historic Places (NRHP.) However, the Advisory Council On Historic Preservation has concurred with the determination - made by the Ohio Historic Preservation Office (OHPO) and the Ohio Department of Transportation (ODOT), that this project will have an adverse effect upon archeological sites 33L1183 and 33L1185, with the condition that the Data Recovery Plan is implemented for portions of the archeological sites affected by this project and the remainder of the sites protected. ODOT has assured the OHPO that these sites will be protected from all ancillary construction activities (e.g. borrow areas, parking of equipment, storage of materials, etc.) As such, the agreement between ODOT and the OHPO will take precedence over any agreement between the contractor and landowner regarding borrow areas, etc. In order to delineate these sites, the Contractor shall erect temporary fencing at the beginning of construction for the portions of the sites within existing Right-of-Way. For the Data Recovery Areas, this temporary fencing shall remain in place until completion and approval of the Data Recovery Operation by the OHPO. For the remainder of the site, the temporary fencing shall remain in place until completion of the project. The temporary fence shall be either a wood snow fence or plastic/nylon construction fence. Costs associated with providing, installing, maintaining and removing the fence shall be included in the base bid of the project.

The Data Recovery Plan and activities associated with implementing the Data Recovery Plan are to be completed by others and no costs associated with this work are to be included in the base bid of this project.

It is anticipated that the completion of the Data Recovery Plan and OHPO approval is December 2004. No work can occur within this area until the OHPO clearance is obtained.

Archaeological site 33L1210 was determined by the OHPO to be potentially eligible for inclusion in the NRHP however, the portion of the side in the project was determined not eligible. The portion of the site located outside of the Right-of-Way of the rest area must be avoided. ODOT has assured the OHPO that this site will be protected from all ancillary construction activities (e.g. borrow areas, parking of equipment, storage of materials, etc.) As such, the agreement between ODOT and the OHPO will take precedence over any agreement between the Contractor and Landowner regarding borrow areas, etc. In order to delineate this site, the Contractor shall erect Temporary Fencing at the beginning of construction, along the Right-of-Way line that separates the site. The temporary fence shall be either a wood snow fence or plastic/nylon construction fence. Costs associated with providing, installing, maintaining and removing the fence shall be included in the base bid for the project.

ARCHEOLOGICAL SITES FOR AVOIDANCE

The contractor shall not impact the Environmentally Sensitive areas 33L1197 and 33L1198, located on the westbound rest area, west of the existing property. The sites are shown on sheets CS1.4 and C3.01. In addition, portions of area 33L1185, shown on sheets CS1.7 and C3.03, outside of the right of way and outside of the work limits shall be protected as detailed below.

The determination and agreement made by the Ohio Historic Preservation Office (OHPO) and the Ohio Department of Transportation (ODOT), that this project will have no effect upon archaeological sites 33L1198 and 33L1197 is based on protection of the site. ODOT has assured the OHPO that these sites will be protected from all ancillary construction activities (e.g., borrow areas, parking of equipment, storage of materials, etc.). As such, the agreement between ODOT and the OHPO will take precedence over any agreement between the Contractor and landowner regarding borrow areas, etc. Additional details regarding this area of avoidance can be obtained from the District 5 Environmental Coordinator (740) 323-4400 or Stan Baker (614) 466-5143. In order to delineate the sites for avoidance, the Contractor shall erect Temporary Fencing at the beginning of construction, along the Right-of-Way lines (or the edge of the work limits) that separate the sites. The temporary fence shall be either a wood snow fence or plastic/nylon construction fence. Costs associated with providing, installing, maintaining and removing the fence shall be included in the base bid for the project.

MAINTENANCE OF TRAFFIC

This project consists of a significant amount of work on or near the existing I-70 Interstate. It is the intent of this project to minimize the impact on traffic using I-70 during the construction period. The Contractor is responsible for preparing a Maintenance of Traffic Plan and all work, materials, labor, equipment and all appurtenances necessary to implement said plan. This plan shall be subject to the approval of the Associate in conjunction with the Ohio Department of Transportation Representative. Work along I-70 that requires temporary shoulder or lane closures shall be done concurrently so as to minimize the number and duration of temporary shoulder and/or lane closures.

The Maintenance of Traffic Plan shall be in accordance with the Manual of Uniform Traffic Control Devices (MUTCD) and shall provide approximate dates of any temporary shoulder and/or lane closures and the duration of said closure. No temporary lane closure shall be of a duration of over 30 calendar days and lane closures are not allowed on any holiday observed by the Ohio Department of Transportation. Temporary lane closures shall be accompanied by the use of temporary barricades, flashing direction arrows, temporary pavement markings and any other appurtenances as required by the MUTCD.

CLEAN WATER ACT PERMIT

The contractor is prohibited to work within the stream and wetland areas until such time as the approval of the U.S. Army Corps of Engineers Section 404 Permit approval. It is presumed that the Section 404 permit will be obtained for the work in jurisdictional waters (streams and wetlands) no later than June 15, 2004. However, it should be noted that no work can commence in any jurisdictional water (streams and wetlands) until the approval of the United States Army Corps of Engineers occurs. Work at the identified individual locations shall be subject to conditions of the permit and based on the drawings provided in the construction plans. Existing Wetlands are shown on sheet C3.03.

ITEM 203 - ROADWAY EXCAVATION AND EMBANKMENT

Strip topsoil and areas that have supported vegetation to a depth sufficient to remove organic materials. Stockpile topsoil on site for future distribution at a location approved by the Associate. Prevent topsoil weather related erosion using temporary seeding or by other methods approved by the Associate. Remove excess and unsuitable topsoil and dispose of on site as directed by the Associate.

A subsurface investigation has been conducted and the results of the investigation have been summarized in a soils report made part of these contract documents. The Contractor shall familiarize himself with the contents of this report and all of its recommendations. Several areas are identified in the report as soils unsuitable as a foundation for embankment or as soils within the top three feet of Subgrade. Additionally, several areas were found that might require undercutting and replacement.

The Owner has retained the services of a professional Geotechnical Engineer to provide compaction testing, monitor embankment construction, structure backfill and pipe installation and to direct the contractor as to what soils are unsuitable and the extents to which they shall be removed and replaced. Backfill may be either suitable Item 203 material or Granular Backfill (Item 703.16.C) wrapped in Geotextile Fabric Type D (Item 712.09) as directed by the Geotechnical Engineer. The Geotechnical Engineer may also inform the Contractor as to what methods should be used in these operations.

The soils report specifically identifies locations and depths of unsuitable soils under the proposed building location on both sites. As part of this project, the Contractor shall excavate the existing soils to the limits set forth in the soils report and replace with compacted fill meeting the requirements specified in the Subsurface Investigation Report for building construction.

Soil identified as unsuitable within the embankment and Subgrade under the building plaza areas (sidewalk) shall be removed and replaced with suitable material and compacted under the same specifications as those for embankments under pavements. Cement Stabilization shall not be used under the plaza sidewalks.

Soils determined to be unsuitable for embankments under pavement areas may be acceptable for embankments in lawn areas. The Geotechnical Engineer will make this determination.

ITEM 204 - SUBGRADE COMPACTION AND PROOFROLLING

Prior to constructing embankments, the entire embankment area shall be proof rolled in accordance with Item 204. Soils in embankment areas to be constructed under pavement that are determined to be unsuitable by the Geotechnical Engineer shall be treated as stated with Item 202 - Excavation and Embankment.

Proof rolling the Subgrade below the building and plaza areas on both sites shall be performed and any soft or unstable areas, as determined by the Geotechnical Engineer, shall be removed and replaced as detailed in Item 203 - Excavation and Embankment.

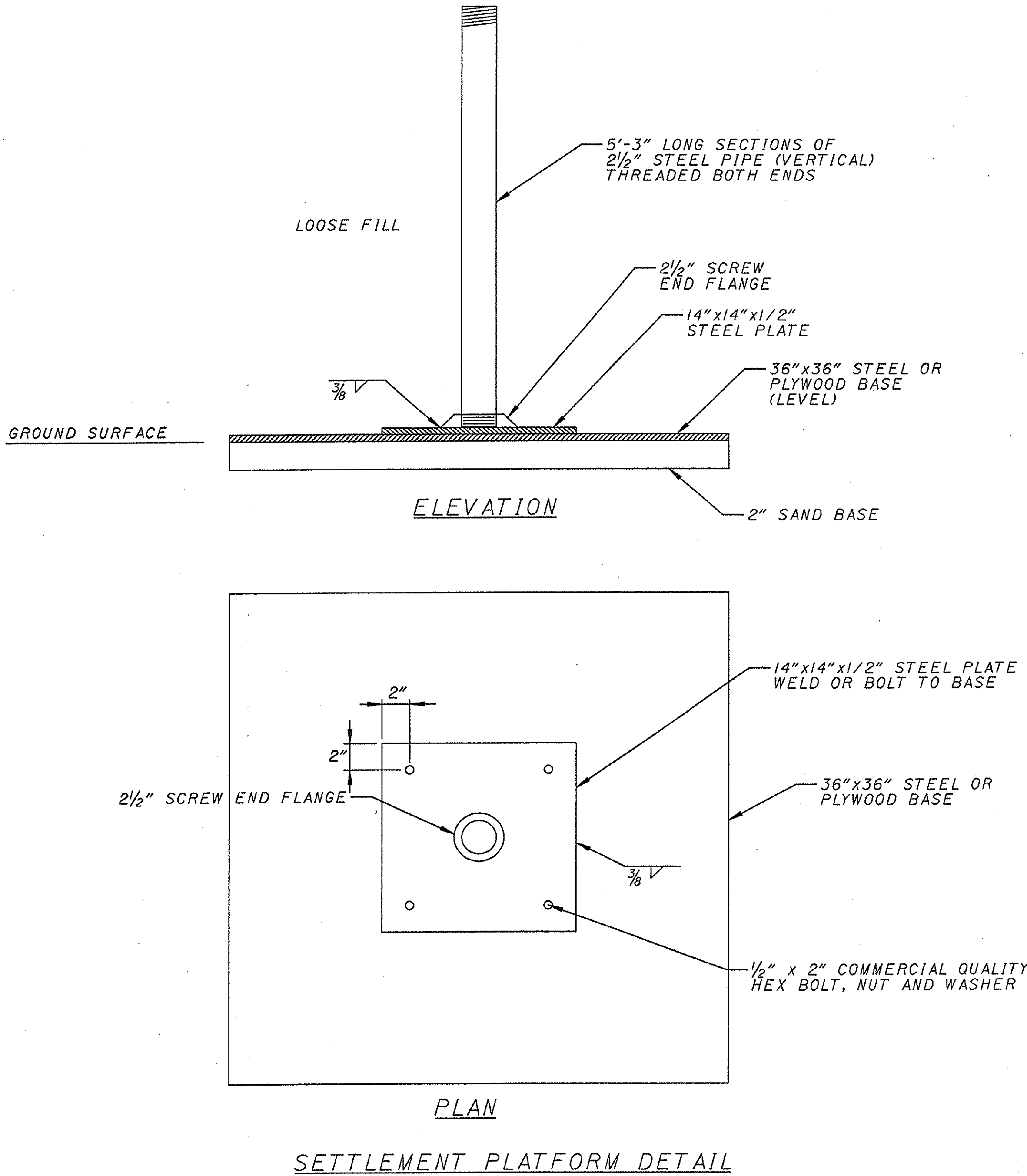
SETTLEMENT PLATFORMS

Settlement platforms shall be installed to measure settlement in locations recommended in the Subsurface Investigation Report. Settlement platforms shall be installed after all clearing and grubbing operations in the area to be tested have been completed and placed at locations identified by the Geotechnical Engineer.

The Contractor shall manufacture the settlement platforms as detailed in the plans. The contractor has the option of using either a steel or plywood base. The settlement platforms shall be anchored by stakes driven at each corner to prevent overturning.

As the fill begins to rise, 5'-3" sections of pipe shall be added to maintain the top of the pipe between 1' and 6' above the surface of the fill. Extreme care shall be exercised during filling operations around the settlement plate. No large rock fill is to be used immediately adjacent to the settlement plate. If necessary, sand or clayey earth backfill shall be placed, by hand or other method approved by the Engineer, against pipes prior to mass fill placement in test areas.

A total of four (4) settlement platforms shall be included in the base bid for the project.



CONSULTING ARCHITECTS & ENGINEERS ARCHITECT OFFICE OF THE STATE ARCHITECT MECHANICAL, ELECTRICAL & STRUCTURAL SRA, INC. SITEWORK LANDSCAPE ARCHITECTURE KINZELMAN KLINE		
REVISIONS		
NO.	DATE	DESCRIPTION
FOR: OHIO DEPT. OF TRANSPORTATION		
DRAWING DESCRIPTION: GENERAL NOTES		
PROJECT NO. 770-2003-074 I-70 / LICKING COUNTY REST AREA		
STATE OF OHIO DEPARTMENT OF ADMINISTRATIVE SERVICES GENERAL SERVICES DIVISION PREPARED BY GENERAL SERVICES DIVISION OFFICE OF THE STATE ARCHITECT		
PLUT DATE 20 JULY, 2004	DATE AUGUST, 2004	C0.01

BID/CONSTRUCTION SET

CHEMICAL STABILIZATION OF SUBGRADE

The Subsurface Investigation Report recommends that the entire subgrade areas under pavements be chemically treated using cement or lime stabilization. Due to the combination and types of on-site soils and the moisture contents, it is expected that a combination of Cement Stabilized Subgrade and Lime Stabilized Subgrade will be required on this project. The Geotechnical Engineer will make the determination as to the methods and the extents of the stabilization to use based on the different soil types.

The Contractor shall base his bid on using a Cement Stabilized Subgrade under the entire pavement subgrade area with the knowledge that Lime Stabilized Subgrade may be required. No additional payment will be made for Lime Stabilized Subgrade as it will be considered equivalent to Cement Stabilized Subgrade. The Geotechnical Engineer will determine the design and locations for the Lime Stabilized Subgrade.

ITEM 804 - CEMENT STABILIZED SUBGRADE

804.01- DESCRIPTION

This work consists of constructing a cement stabilized subgrade (CSS). Drain and maintain the work according to 203.04.A.

804.02- MATERIALS

Furnish portland cement conforming to the requirements of 701.04. Use 6 percent cement in the soil. This percentage is based on the dry weight of the subgrade soil. Furnish Item 408 Prime Coat at a rate of 0.3 gallon per square yard for curing. The estimating purposes, assume a quantity based on using 6 percent cement per dry weight of a soil weighing 110 pounds per cubic foot.

804.03 - CONSTRUCTION

A. Limitations. Perform the cement stabilization work when the air temperature is 40° F or above and the material to be treated is not frozen. Do not perform work during wet or unsuitable weather.

Test roll prior to the addition of cement with a proof roller conforming to Item 204.06.

Shape the subgrade to the profile grade prior to mixture of cement so as to permit the construction of a uniform compacted course of cement treated soil to the thickness shown on the plans.

B. Spreading. Prepare a report denoting the type of equipment to be used, speed of the intended equipment usage, rate of application of the cement, and calculations to produce the required percent cement. Submit this report 2 working days prior to the work for approval.

Spread the cement at the approved rate. Spread the cement uniformly on the subgrade by means of distributors or tanks. Spread bulk cement using a mechanical spreader. Uniformly spread dry cement at a constant slow rate of speed. The Contractor may elect to use a dozer or motor grade to tow the cement truck in order to maintain this slow rate of speed. Do not spread the cement on standing water.

Provide a square yard canvas ahead of the spreading operation to check the amount of cement spread on grade. Carefully pick up the canvas and cement and weigh after the spreader has passed to assure conformance with the contract requirements.

Minimize dusting when spreading dry cement. Use a cement distribution bar with a maximum height of 3 feet above the subgrade. Use a canvas shroud that surrounds the distribution bar and extends to the subgrade. Do not apply dry cement if wind conditions are such that blowing cement exceeds the limits in 107.21.

C. Mixing. Immediately after spreading the cement, mix the cement and soil using a power driven transverse type mixer equipped with a computer controlled volumetric water read out. Continue mixing until the cement is thoroughly incorporated into the soil and is a uniform color. Do not water during the initial mixing. Complete the initial mixing, so that 80 percent of the soil cement mixture must pass a No. 4 sieve and 100 percent pass the 1-inch sieve, exclusive of gravel or stone.

Following the initial mixing, remix the soil and introduce water through the transverse mixer to bring the mixed material to at least 2 percent above optimum moisture. Uniformly distribute the water in sufficient quantity to hydrate the cement.

Restrict the addition of water when moisture content of soil exceeds 4 percent above optimum. Add water to the mixed soil in less than 2 hours after the initial mixing.

Mix the cement mixture to a depth of 16 inches. Check the uniformity of the mix by digging trenches or a series of holes at regular intervals for the full depth of treatment and inspecting the color and depth of the exposed material.

D. Compaction. After mixing, shape the subgrade. Start compaction immediately after the final mixing. Use rollers complying with 203.06.A.

The Engineer will perform the compaction testing according to Supplement 1015.

The Engineer will obtain the maximum dry density for acceptance by using the moisture density curves submitted by the geotechnical consultant, the Ohio Typical Density Curves or the maximum dry density obtained by test section method.

Compact the CSS to at least 98 percent of the maximum dry density.

When a test section method is used for compaction acceptance, use 98 percent of the test section maximum dry density for acceptance of the production CSS construction. Use at least the same number of passes and compactive effort used to construct the test section in the production CSS areas. Construct a new test section when the material changes, supporting foundation or embankment changes. Reduce the moisture content if the material becomes unstable.

Use the moisture controls according to 203.07.A, except ensure that the moisture content at time of compaction is at least 2 percent above optimum.

Perform the final rolling using a steel-wheeled roller. Shape or fine grade the compacted CSS to the profile grade within the tolerances in 203.08.

Complete the mixing, compacting, shaping and fine grading within 3 hours from start to finish.

804.04- CURING

Immediately following the fine grading, cure the compacted CSS for five days before the placement of the overlying course. Protect the CSS. Do not operate construction equipment on the CSS during the cure period. Cover the surface with Item 408 Prime Coat to cure the CSS.

Do not allow the CSS to freeze during the cure period.

804.05- PROOF ROLLING

After the cure period proof roll the CSS according to Item 204.

804.06- METHOD OF MEASUREMENT

A. Cement Stabilized Subgrade. Measurement will be by the number of square yards computed from the typical sections and the area to be completed and accepted in place. This includes all labor, work, materials, equipment and all appurtenances required to construct the CSS as described above.

B. Cement. Measurement will be by the number of tons. This item will only be used if changes in the amount of cement required is modified by the Geotechnical Engineer. Cement required for the base bid is accounted for in Cement Stabilized Subgrade above.

C. Test Rolling and Proof Rolling. In accordance with Item 204.

D. Prime Coat. In accordance with Item 408.

804.07- BASIS OF PAYMENT

All labor, equipment and materials needed to construct the Cement Stabilized Subgrade shall be included in the base bid for this project. Item 408 - Prime Coat and Item 204 - Proof Rolling required under this item will be paid for under the base bid for this project.

The Geotechnical Engineer will determine the actual cement content used.

LIME STABILIZED SUBGRADE

Lime Stabilized Subgrade shall be used under pavement subgrades in lieu of Cement Stabilized Subgrade at locations to be determined by the Geotechnical Engineer. All work shall be in accordance with Item 206 and all paragraphs and subsections included and reference therein. The Geotechnical Engineer shall determine the percentage of lime and water to be used for these operations based on the site soil conditions.

No additional payment will be made for Lime Stabilized Subgrade as it is considered an equivalent to Cement Stabilized Subgrade shown above.

EXISTING CATTLE CROSSING/ STORM OVERFLOW CULVERT

Contractor to field verify the existing pipe size and type of the existing cattle crossing/ storm overflow at I-70 Sta. 938+00. The Owner has made every effort to verify the size of the existing culvert in the field but makes no guarantee to the size and type of the existing pipe in place and will make no additional payment for additional order fees or restocking fees for incorrect pipe sizes.

SHALLOW PIPE UNDERDRAINS

Shallow pipe underdrains as shown on the plans shall meet the requirements of Item 605.

STORM SEWER PIPE AND CULVERT PIPE

All Storm Sewer Pipe and Culvert Pipe shall be in accordance with Item 603. The type of conduit used shall meet the descriptions for pipes listed under Item 603 (ie: Type B Conduit for Storm Sewers under pavement.)

When a culvert or storm sewer is shown on the plans to be extended, the pipe type used shall match the existing pipe type.

Due to the flat slopes of the storm sewers and culverts, proposed pipe types will be limited to the following:

Non-Reinforced Concrete Pipe, Class 3	706.01
Reinforced Concrete Pipe	706.02
Corrugated Polyethylene Smooth Lined Pipe	707.33
Polyvinyl Chloride Plastic Pipe (Non Perforated)	707.41
Polyvinyl Chloride Corrugated Smooth Interior Pipe	707.42
Polyvinyl Chloride Profile Wall Pipe	707.43
Polyvinyl Chloride Solid Wall Pipe	707.45
Polyvinyl Chloride Drain, Waste and Vent Pipe	707.46

OVERHEAD SIGN AT I-70 STA. 937+75 LEFT

As part of this project, the overhead sign at I-70 Sta. 937+75 Left is to be removed and replaced as detailed within the plans and in accordance with Item 630. The existing overhead truss, ditch-side sign support and foundation shall be removed and disposed of in accordance with Item 202. The existing signs attached to the overhead truss shall be removed and stored for re-use.

A new overhead sign support, foundation and overhead truss shall be constructed in accordance with the Details and Standard Drawings. The existing signs removed for re-use shall be attached to the new overhead truss in locations consistent with the existing overhead truss and consistent with the flow of traffic.

New sign attachment hardware and truss attachment hardware for both sign supports are required for this work.

EXISTING SIGN REMOVED AND REUSED

The plans specifically identify existing highway signs that are to be removed for re-use. These signs are to be carefully removed in such a manner that does not cause damage and stored, on-site in a location approved by the Engineer and protected from damage by other construction activities. W-Beam supported signs shall be removed by unbolting the aluminum extruded sign from the breakaway supports and storing the sign for re-use. The contractor - at no additional cost to the owner - shall replace signs damaged in performing this work. Included in this work is the removal of all sign supports and foundations.

Details are included in these plans for resetting the existing W-Beam aluminum extruded sheet signs and shall be in accordance with Item 630. The Contractor is to construct new foundations as per the standard drawings and details and construct new W-Beam breakaway supports as shown in these plans. The existing sign may then be installed on the new supports in accordance with the standard drawings and details. New hardware for attaching the signs shall be included in the bid price for this project.

HIGH MAST TOWER LIGHTING

This work consists of furnishing and installing electrical materials and equipment, complete and ready for service, for High Mast Tower Lighting at the locations shown on the plans. Work and materials shall be in accordance with the pertinent sections and subsections of Item 625 and Item 725.21 and details contained herein. A portable power unit is not to be provided for this project.

CONSULTING ARCHITECTS & ENGINEERS ARCHITECT OFFICE OF THE STATE ARCHITECT MECHANICAL, ELECTRICAL & STRUCTURAL SRA, INC. SITE/CIVIL KZF DESIGN LANDSCAPE ARCHITECTURE KINZELMAN KLINE		
REVISIONS		
NO.	DATE DESCRIPTION	
FOR: OHIO DEPT. OF TRANSPORTATION		
DRAWING DESCRIPTION: GENERAL NOTES		
PROJECT NO. 770-2003-074 I-70 / LICKING COUNTY REST AREA		
STATE OF OHIO DEPARTMENT OF ADMINISTRATIVE SERVICES GENERAL SERVICES DIVISION PREPARED BY GENERAL SERVICES DIVISION OFFICE OF THE STATE ARCHITECT		
PLLOT DATE 20 JULY, 2004	DATE AUGUST, 2004	C0.02

BID/CONSTRUCTION SET

STORMWATER POLLUTION PREVENTION PLAN NOTES

GENERAL

In compliance with the provisions of the federal Water Pollution Control Act, as amended (33 U.S.C. Section 1251 et. seq. hereafter referred to as "the Act") and the Ohio Water Pollution Control Act [Ohio Revised Code ("ORC") Chapter 6111], dischargers of storm water from sites where construction activity is being conducted, as defined in Part I.B of this permit, are authorized by the Ohio Environmental Protection Agency, hereafter referred to as "Ohio EPA," to discharge from the outfalls at the sites and to the receiving surface waters of the state identified in their Notice of Intent ("NOI") application form on file with Ohio EPA in accordance with the conditions specified in Parts I through VII of this permit. This permit is conditioned upon payment of applicable fees, submittal of a complete NOI application form and written approval of coverage from the director of Ohio EPA in accordance with Ohio Administrative Code ("OAC") Rule 3745-38-06.

The Contractor shall cause the construction and maintenance to occur in conformance with the requirements of this plan and all regulations enforced by the Ohio EPA and it's agents. The Contractor hereby acknowledges that he has reviewed the plans and understands the requirement of the assumed NPDES permit for this project. The Contractor understands his responsibility to construct and maintain the appropriate measures to minimize pollution and that failure to do so could result in work stoppages, fines and imprisonment. Prior to the start of any work at the site, the Contractor shall submit his schedule and the related erosion control methods for review by the Engineer.

PROJECT DESCRIPTION

This project consists of the demolition of the existing Eastbound and Westbound rest areas on I-70 in Licking County and the construction of new rest areas including grading, pavement, buildings, storm sewers, sanitary laterals, water services and electric and telephone services. The site is located on the North and South Side of I-70 in Licking County approximately 2.4 miles West of the Ohio Route 13 interchange.

The existing area within the fenced portion of the right-of-way consists of impervious pavement with a mixture of wooded areas and grassy lawns and slopes. Areas within the right-of-way and outside the fence are used as agricultural farm fields having exposed earth on gentle slopes. The proposed site will increase the impervious area while preserving some areas of existing woodland. All exposed earth areas within the right-of-way will be seeded for permanent ground covering to prevent erosion.

Soil disturbing activities include: Clearing and Grubbing, Installing perimeter erosion and sediment control measures, grading, excavation for utilities, excavation for building foundations and preparation for final planting and seeding.

The total project area (including the Interstate) within the right-of-way and easements is 77.59 Acres of which 52.10 Acres is shown to be disturbed. Earthwork is designed to be balanced and all on-site soils are expected to be used in embankments or other fills. Off-site hauling of material and the dump site are subject to the same requirements as shown in these plans and also the requirements of the NPDES permit.

PROJECT DRAINAGE

Drainage from the site flows primarily to an existing stream to the west which drains into Buckeye Lake approximately 1500' downstream. The East end of the site drains to existing culverts under the Interstate and eventually to Buckeye Lake. Stormwater is collected and stored using existing and proposed storm sewer systems, ditches and detention ponds.

Predevelopment runoff coefficient = 0.51
Post development runoff coefficient = 0.69
Predevelopment Impervious Area = 17.10 Acres (22%)
Post development Impervious Area = 33.44 Acres (43%)

PROJECT SOILS AND DISCHARGE

Site soils consist of between four and twenty-eight inches of topsoil over variable stiffness silty clay and clayey silt with pockets of sand and gravel. Existing pavements and uncovered earth due to agricultural farming activities may be negatively affecting the water quality at the site. The proposed site is designed with grass and rock lined ditches, detention ponds and seeding of all disturbed areas to decrease any impact additional impervious areas may have on water quality.

SEQUENCE OF CONSTRUCTION

1. Perimeter Erosion Control - Prior to the start of any work, the perimeter erosion control protections (silt fence) shall be and construction entrances shall be constructed. Add perimeter silt fence as required to areas designated in these plans where archeological excavations are to take place. Silt fence may be removed when approved by the Engineer and additional perimeter silt fence constructed as necessary.
2. Stabilized Construction Entrances - Construct construction entrances at the locations shown on the plans or alternate location as approved by the Engineer.
3. Clearing and Grubbing - Clear only areas that are shown to be disturbed and apply temporary seeding to areas as shown further in these notes.
4. Strip and Stockpile Topsoil - Store topsoil in a protected location on-site and approved by the Engineer. Upon completion, seed the topsoil stockpile and surround with silt fence to prevent loss of topsoil.
5. Excavation and Embankment - Construct excavations and embankments beginning with the excavation of the sediment basins on both sites. These sediment basins will eventually become the permanent detention basins. Construct rock ditch checks, ditch channel linings and inlet protection as shown on these plans as work progresses. Clean perimeter silt fence and muck-out sediment basins and ditch checks as needed and in accordance with notes shown herein. Temporary seed disturbed areas as shown further in these notes.
6. Underground Utilities and Inlets - Construct underground utilities and inlets as shown on the plans. Upon completion of each inlet, install appropriate inlet protections to prevent sediment from entering newly constructed structures. Maintain perimeter silt fences, sediment ponds and inlet protection as shown further in these notes.
7. Construct Pavement and Buildings - Construct pavements and buildings and migrate inlet protection as needed to prevent sedimentation. Maintain perimeter silt fences, sediment ponds and inlet protection as shown further in these notes.
8. Final Grading and Seeding - Spread stockpiled topsoil to final grades and construct permanent seeding. Maintain perimeter silt fences, sediment ponds and inlet protection as shown further in these notes.
9. Remove Erosion Control Devices - Erosion control devices may be removed at a time when the contributing drainage area is shown to have a good stand of grass however the sediment basin rock dams are to remain in place until a good stand of grass is shown on the entire site. Immediately repair areas disturbed by removing erosion control devices.

STABILIZATION PRACTICES

1. Any areas at final grade and any areas that will lie dormant for one year or more shall be seeded with permanent seeding within seven days of the most recent disturbance.
2. Any areas within 50 feet of a stream and at final grade will be seeded with permanent seeding within two days of reaching final grade
3. Any disturbed areas within 50 feet of a stream and not at final grade shall be seeded with temporary seeding within two days of the most recent disturbance if the area will remain idle for more than 21 days.
4. Any disturbed areas that will remain idle over the winter season shall be seeded with temporary seeding prior to the onset of winter weather.
5. All other disturbed areas not at final grade but will remain idle for more than 21 days but less than one year shall be seeded with temporary seeding within seven days of the most recent disturbance within the area.

Temporary seeding shall be per ODOT Item No. 207.03.

INSPECTION AND MAINTENANCE

The Contractor shall provide "Qualified" personnel to perform inspections of the erosion control measures at least once every seven calendar days and within 24 hours after any storm event greater than one-half inch of rain over a 24-hour period. The Inspector shall have knowledge and experience in the installation and maintenance of sediment and erosion controls and conduct these inspections to ensure that the control practices are functional, properly implemented and adequate and whether additional control measures are required. An Inspection Report shall be completed, dated and signed after every inspection. A copy of the Inspection Report shall be submitted to the Engineer and kept on site. Inspections shall continue until all disturbed areas on the site are stabilized.

All materials, waste materials, storage areas and sanitary controls shall be inspected at the same time as the above inspection to ensure no spills, leaks or discharges need to be addressed.

All erosion control measures shall be kept in good working order to assure continued performance.

Perimeter silt fence shall be inspected for rips, tears, broken posts and sediment depth. Sediment shall be removed from the fence when the depth reaches one-third the exposed height of the silt fence. Any repairs to the perimeter silt fence noted on the inspection report shall be made within three days of the report.

Rock ditch checks and sediment basins shall be cleaned when the design capacity of the measure has been reduced by 40% or more. Necessary repairs and cleaning of the rock checks and rock dams shall be made within ten days of the report.

Temporary and permanent seeding shall be inspected for bare spots, washouts and healthy growth.

OFF-SITE SEDIMENT TRACKING

The tracking of sediment off-site shall be minimized by the installation of gravel construction entrances and by regularly scheduled sweeping activities.

WASTE MATERIALS

All waste (including hazardous waste) generated from these construction activities shall be handled and disposed of in a safe and legal manner in accordance with all applicable local, state and federal regulations.

NON-STORMWATER RUNOFF

Water from water main work, truck washing, flushing, pavement washing, dewatering and all other non-stormwater runoff is to be directed to the nearest erosion control measure to prevent sediment runoff.

FERTILIZERS

Fertilizers used on the project will be applied in the amounts specified. Once applied, fertilizer will be worked into the soil to limit exposure to storm water. Excess fertilizer or open containers shall be stored in a dry place and covered to prevent spills and leakage.

PAINTS

All containers will be tightly sealed and stored when not required for use. Excess paint will not be discharged to the storm or sanitary sewer system. Properly dispose of all paint materials according to manufacturer's recommendations and all local, state and federal regulations.

CHANGES TO THE STORMWATER POLLUTION PREVENTION PLANS

The Contractor shall notify the Engineer of any changes in design, construction, operation, maintenance or any deficiencies detected in the plan that will have a significant effect on the potential for discharging pollutants in storm water at the site. The Engineer shall modify the Stormwater Pollution Prevention Plans to correct the deficiencies or to reflect the changes and new conditions.

The Engineer shall also modify the plan within seven days after a release of a reportable quantity of a hazardous substance or oil.

The Engineer shall also modify the plan as required by the Ohio EPA Storm Water Division immediately after notification of the required changes. The Engineer shall certify to the Director of the Ohio EPA, or his authorized representative, that the required changes have been made.

The Engineer and Contractor shall certify all changes to the plans.

PLAN AVAILABILITY/ RECORDS RETENTION

A copy of the Notice of Intent (NOI) and letter authorizing discharges under the General Permit for Construction Activities associated with this project shall be posted at the site in a prominent place for public viewing.

A copy of these plans, along with all records, reports and supporting documentation will be kept on-site at all times throughout the construction project and will be turned over to the owner at the completion of the project. The owner will maintain the records for at least three years after the construction project has been completed.

These plans, records, reports and other supporting documentation will be available upon request to the Director of the Ohio EPA or any authorized representative. Portions not classified as "Confidential" shall be available to any other interested party as required under Section 308 (B) of the Federal Water Pollution Control Act.

Records shall include the dates when substantial grading activities occur in a particular area, the dates when construction activities cease in an area (temporary or permanent) and the dates when an area is stabilized.

NOTICE OF TERMINATION

A written official Notice Of Termination shall be submitted to the Ohio EPA, by the Owner, within forty-five (45) days after final site stabilization has been achieved in accordance with the General Construction Storm Water Permit to communicate that this construction activity has ceased and the area has been stabilized.

CONTRACTOR AND SUB-CONTRACTOR RESPONSIBILITY

The General Contractor and all Sub-Contractors on the site that meet the following definition shall become co-permittees under the NPDES Permit acquired by the owner:

1. The party has operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications; or
2. The party has day-to-day operational control of those activities at a project which are necessary to ensure compliance with a Stormwater Pollution Prevention Plan for the site or other permit conditions (e.g., they are authorized to direct workers at a site to carry out activities required by the Stormwater Pollution Prevention Plan or comply with other permit conditions.)

A copy of the "Co-Permittee Notice of Intent for Coverage Under Ohio EPA Storm Water Construction General Permit" is included in the project documents. By filling out and certifying this permit, the Co-Permittee agrees to abide by the requirements set forth in these plans and also to the NPDES Permit as obtained by the owner and included in the project documents.

The Erosion Control and Stormwater Pollution Prevention Plans included herein, do not address specific requirements of the NPDES Permit as they pertain to construction site activities, storage areas, borrow pits and vehicle maintenance locations. This was done to allow the Contractor leeway in these areas. It is the responsibility of the Contractor, prior to the start of construction, to address these requirements and work with the owner (or the owner's representative) in modifying the Stormwater Pollution Prevention Plans accordingly. Upon completion of the Stormwater Pollution Prevention Plans, the Owner and all Co-Permittees shall certify these plans.

OWNER'S CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Printed Name _____

Signature _____

Date _____

CO-PERMITTEE CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Company _____

Printed Name _____

Signature _____

Date _____

Company _____

Printed Name _____

Signature _____

Date _____

Company _____

Printed Name _____

Signature _____

Date _____

Company _____

Printed Name _____

Signature _____

Date _____

Company _____

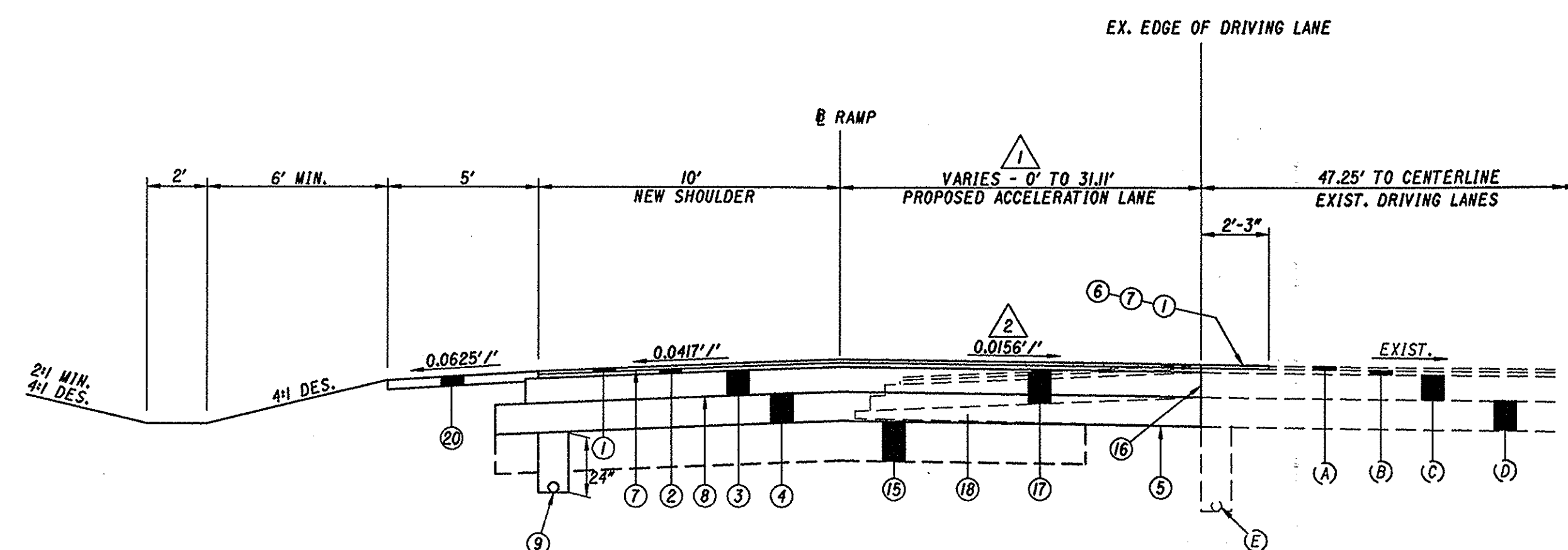
Printed Name _____

Signature _____

Date _____

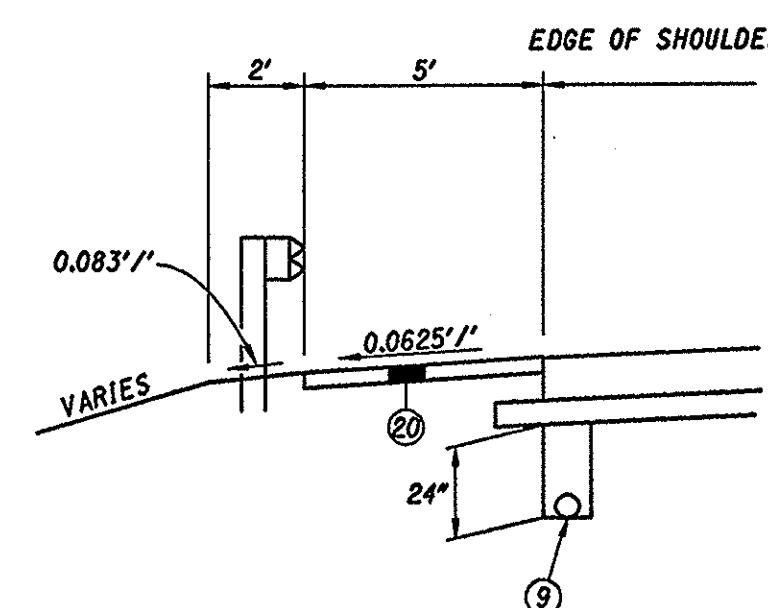
CONSULTING ARCHITECTS & ENGINEERS ARCHITECT OFFICE OF THE STATE ARCHITECT MECHANICAL, ELECTRICAL & STRUCTURAL SRA, INC. SITE DESIGN KINZELMAN KLINE		
REVISIONS		
NO.	DATE	DESCRIPTION
FOR: OHIO DEPT. OF TRANSPORTATION		
DRAWING DESCRIPTION: GENERAL NOTES		
PROJECT NO. 770-2003-074 I-70 / LICKING COUNTY REST AREA		
STATE OF OHIO DEPARTMENT OF ADMINISTRATIVE SERVICES GENERAL SERVICES DIVISION PREPARED BY GENERAL SERVICES DIVISION OFFICE OF THE STATE ARCHITECT		
REV DATE 20 JULY, 2004	DATE BRYAN MICHAEL BENDER E-66622	DATE C0.03

BID/CONSTRUCTION SET

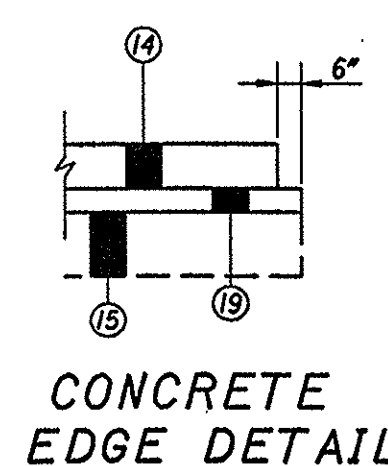


**RAMP A - PROPOSED WIDENING
ADJACENT TO EX. I-70 ASPHALT PAVEMENT**
STA. 10+00 TO STA. 25+00
STA. 25+00 TO STA. 26+80.50 (SEE PAVEMENT DETAILS)

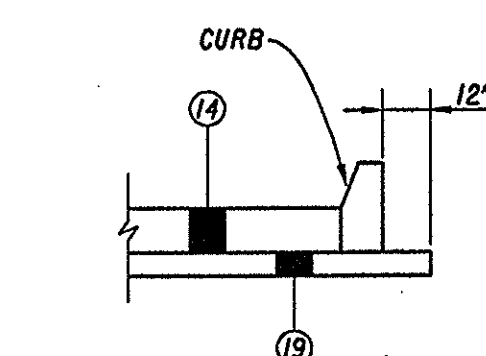
- 1 SEE LAYOUT SHEETS FOR PAVEMENT DIMENSIONS
VARIES 0.0156"/' STA. 24+00 TO -0.0156"/' STA. 25+00
2 SEE PAVEMENT DETAIL SHEETS FOR GRADES FROM STA. 25+00 TO STA. 26+80.50



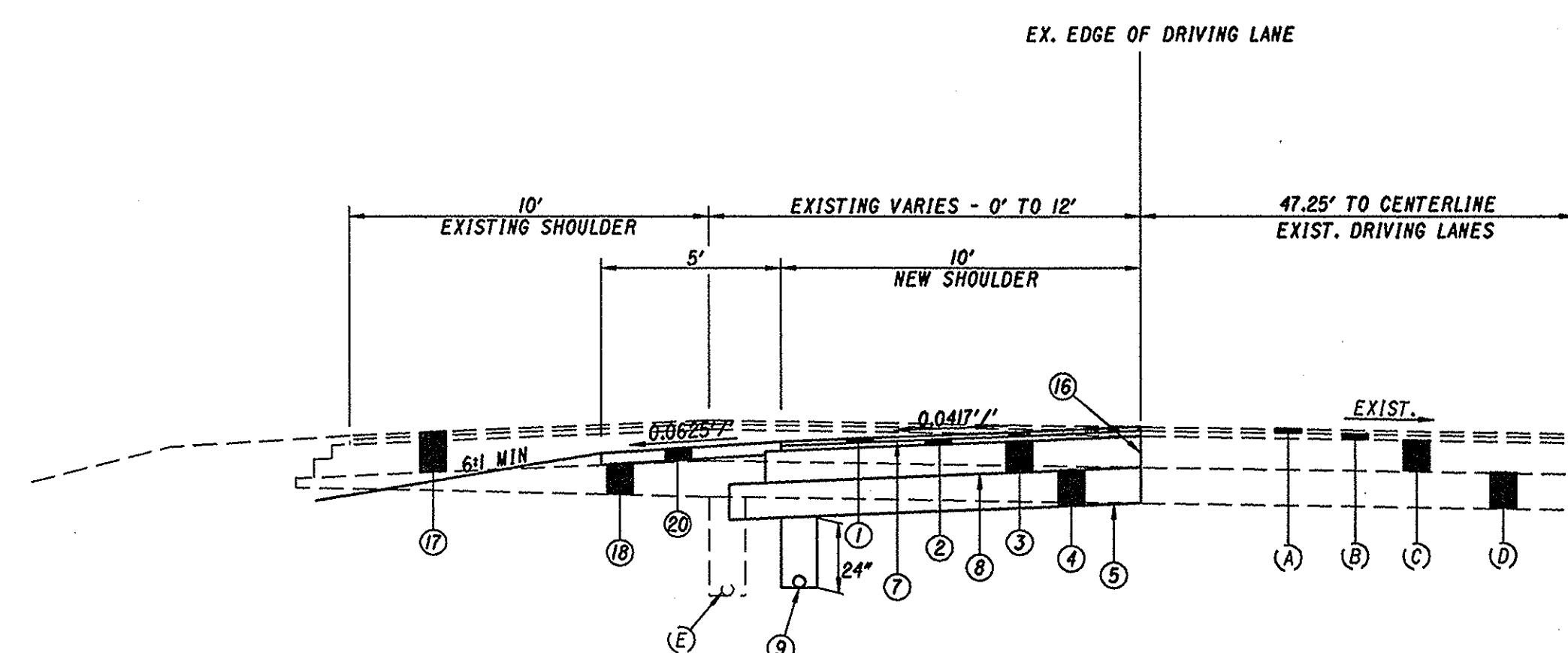
GUARDRAIL WIDENING DETAIL



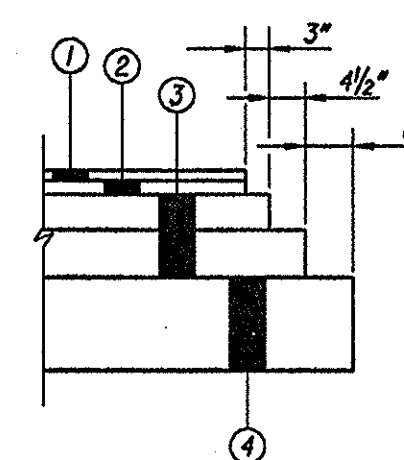
**CONCRETE
EDGE DETAIL**



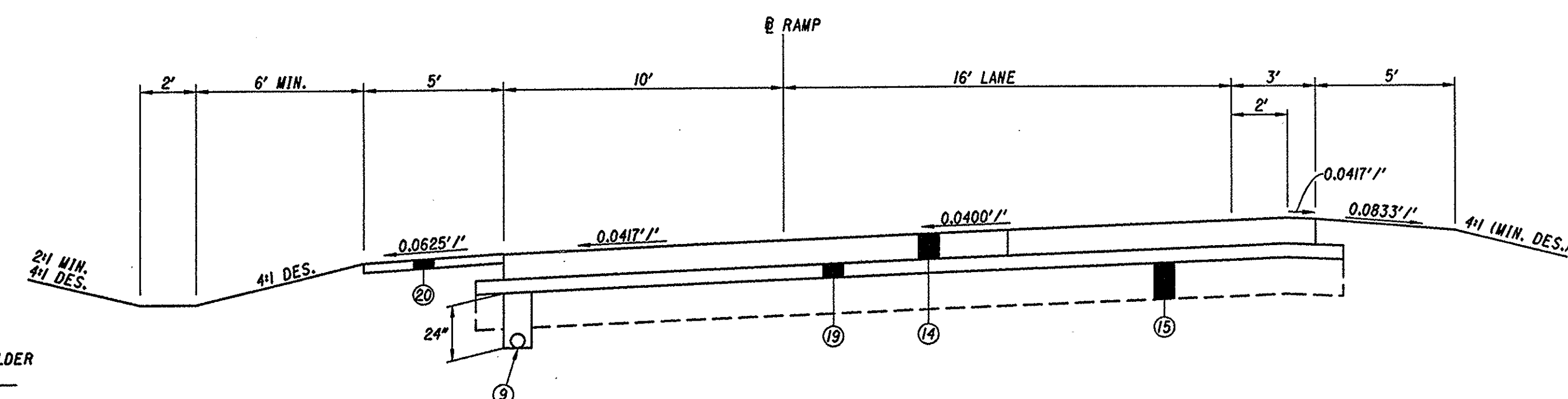
**CONCRETE EDGE
DETAIL, WITH CURB**



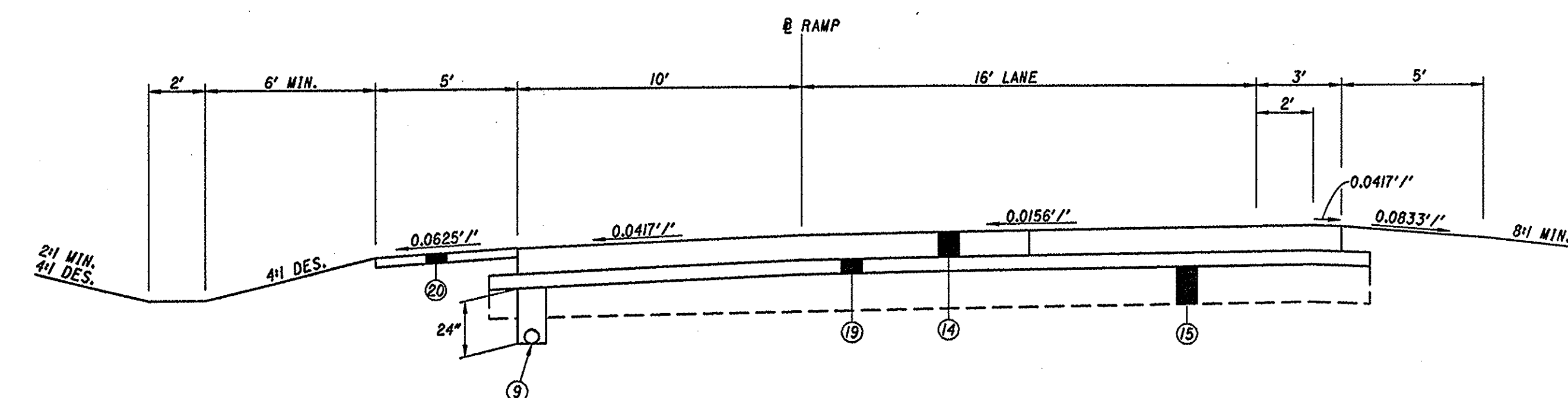
I-70 SHOULDER REPLACEMENT
I-70 STA. 940+04.60 LEFT TO STA. 952+25.96 LEFT
I-70 STA. 957+74.97 LEFT TO STA. 958+99.64 LEFT
I-70 STA. 944+50 RIGHT TO STA. 952+73.95 RIGHT (OPPOSITE HAND)



ASPHALT EDGE DETAIL



RAMP A - SUPERELEVATED SECTION
RAMP A - STA. 26+80.50 TO STA. 28+40.85 (SEE PAVEMENT DETAILS)
STA. 28+40.85 TO STA. 30+09.28
STA. 30+09.28 TO END (SEE PAVEMENT DETAILS AND PLAN SHEETS)



RAMP B - NORMAL SECTION
SEE PAVEMENT DETAILS FOR CONNECTION AT RAMP A

- 1 ITEM 442 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 9.5mm, TYPE A (446)
2 ITEM 442 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 19mm, TYPE A (446)
3 ITEM 302 - 10 1/2" ASPHALT CONCRETE BASE, PG64-22
4 ITEM 304 - 12" AGGREGATE BASE
5 ITEM 204 - SUBGRADE COMPACTION
6 ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE
7 ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE, APPLIED AT A RATE OF 0.05 gal/sy
8 ITEM 408 - BITUMINOUS PRIME COAT, APPLIED AT 0.4 gal/sy
9 ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS

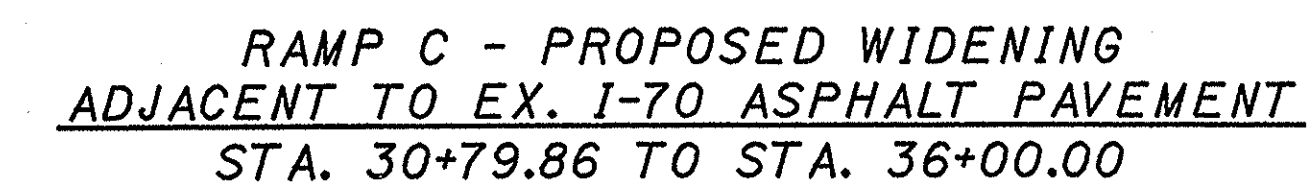
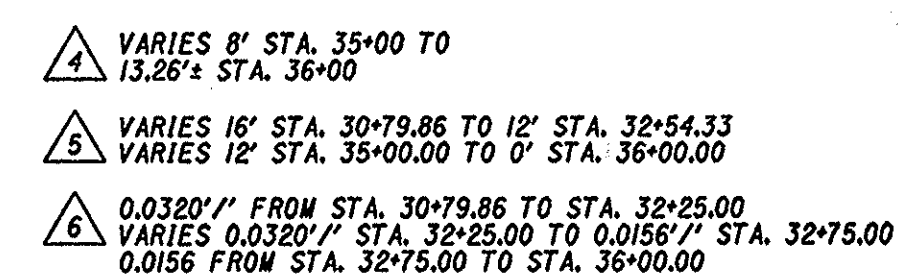
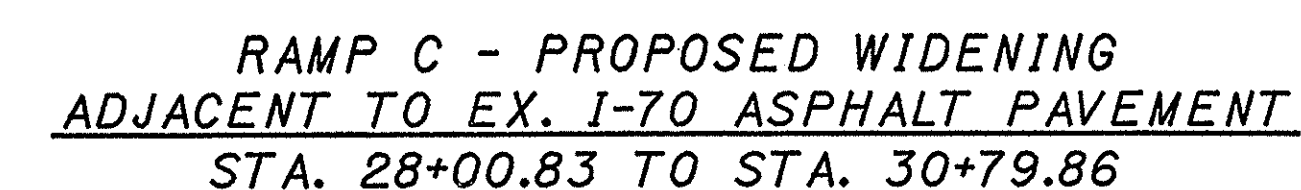
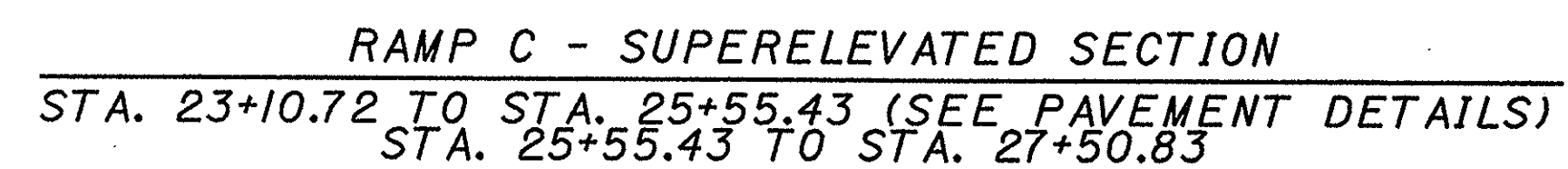
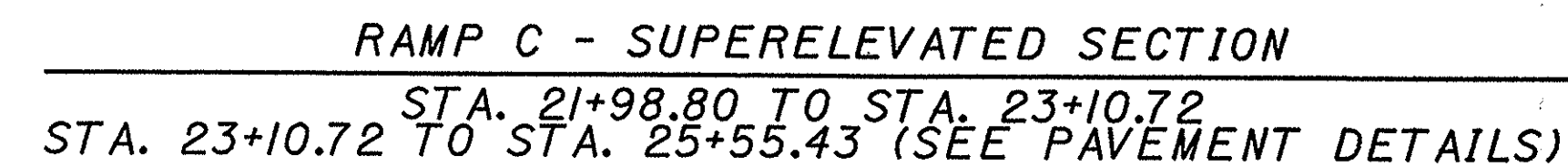
- 11 ITEM 609 - CURB, TYPE 7 (SEE DETAIL SHEET C0.06)
12 ITEM 609 - CURB, TYPE 6 (SEE DETAIL SHEET C0.06)
13 ITEM 411 - 8" STABILIZED CRUSHED AGGREGATE
14 ITEM 451 - 11" REINFORCED CONCRETE PAVEMENT
15 ITEM 804 - 16" THICK CEMENT STABILIZED SUBGRADE OR
ITEM 206 - 16" THICK LIME STABILIZED SUBGRADE, SEE GENERAL NOTES
16 SAWCUT EX. ASPHALT PAVEMENT, FULL DEPTH
17 ITEM 202 - PAVEMENT REMOVED
18 ITEM 203 - EXCAVATION
19 ITEM 304 - 6" AGGREGATE BASE
20 ITEM 304 - 4" AGGREGATE BASE

- A EXISTING ASPHALT SURFACE
B EXISTING BITUMINOUS INTERMEDIATE COURSE
C EXISTING BITUMINOUS BASE
D EXISTING RUBBLIZED CONCRETE AND BITUMINOUS BASE
E EXISTING UNDERDRAIN

ALL WORK TO BE IN ACCORDANCE WITH THE REFERENCED SECTIONS OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS AND ALL PARAGRAPHS AND SUBSECTIONS INCLUDED THEREIN.

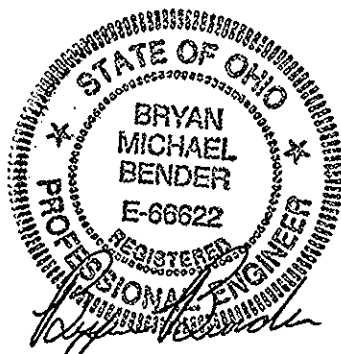
CONSULTING ARCHITECTS & ENGINEERS ARCHITECT OFFICE OF THE STATE ARCHITECT MECHANICAL, ELECTRICAL & STRUCTURAL SRA, INC. SITE DESIGN KZF DESIGN LANDSCAPE ARCHITECTURE KINZELMAN KLINE																																		
REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		NO.	DATE	DESCRIPTION																														
NO.	DATE	DESCRIPTION																																
FOR: OHIO DEPT. OF TRANSPORTATION																																		
DRAWING DESCRIPTION: TYPICAL SECTIONS																																		
PROJECT NO. 770-2003-074 I-70 / LICKING COUNTY REST AREA																																		
STATE OF OHIO DEPARTMENT OF ADMINISTRATIVE SERVICES GENERAL SERVICES DIVISION PREPARED BY GENERAL SERVICES DIVISION OFFICE OF THE STATE ARCHITECT																																		
PLOT DATE 20 JULY, 2004	DATE AUGUST, 2004																																	
C0.04																																		

BID/CONSTRUCTION SET



CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT
OFFICE OF THE STATE ARCHITECT
MECHANICAL ELECTRICAL & STRUCTURAL
SRA, INC.
BIRMINGHAM ALA.
K&F DESIGN
LANDSCAPE ARCHITECTURE
KINZELMAN KLINE

REVISIONS		
NO.	DATE	DESCRIPTION



BRYAN
MICHAEL
BENDER
E-66622

FOR:

OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:

TYPICAL SECTIONS

PROJECT NO. 770-2074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

NOT DATE

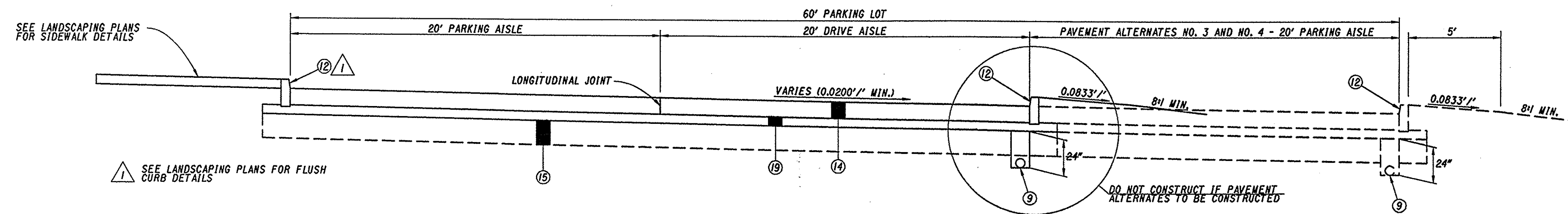
20 JULY, 2004

DATE

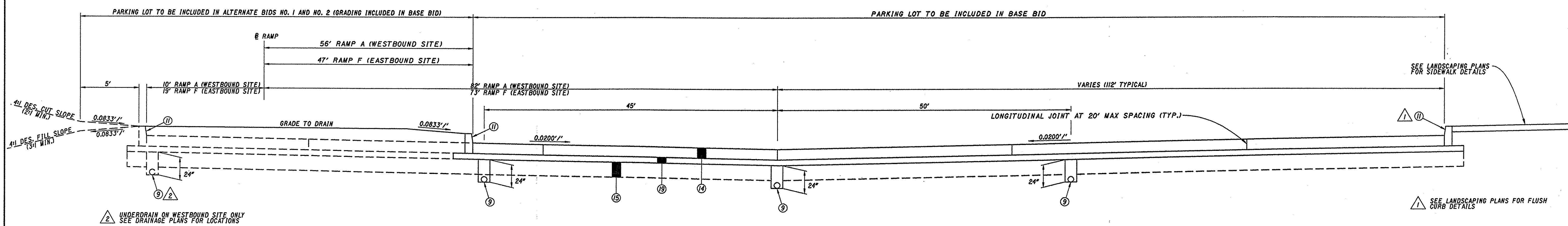
AUGUST, 2004

C.O.05

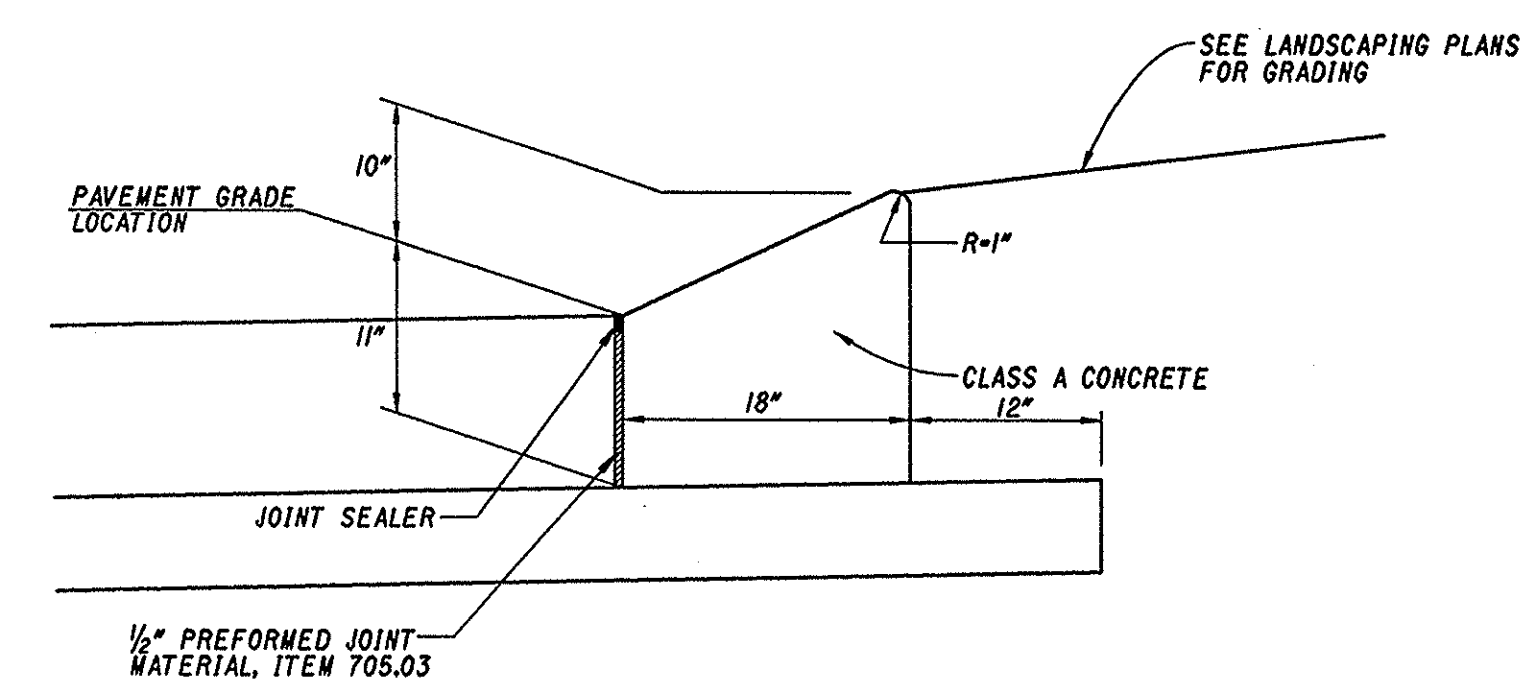
BID&CONSTRUCTION SET



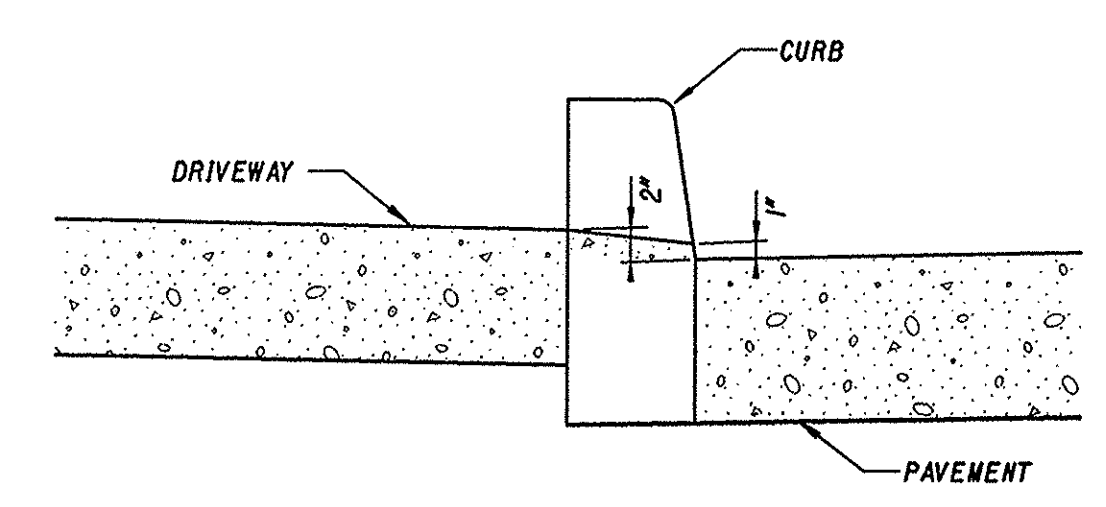
AUTOMOBILE PARKING LOT TYPICAL SECTION
SEE LAYOUT AND GRADING PLANS FOR GRADES AND CURB LOCATIONS



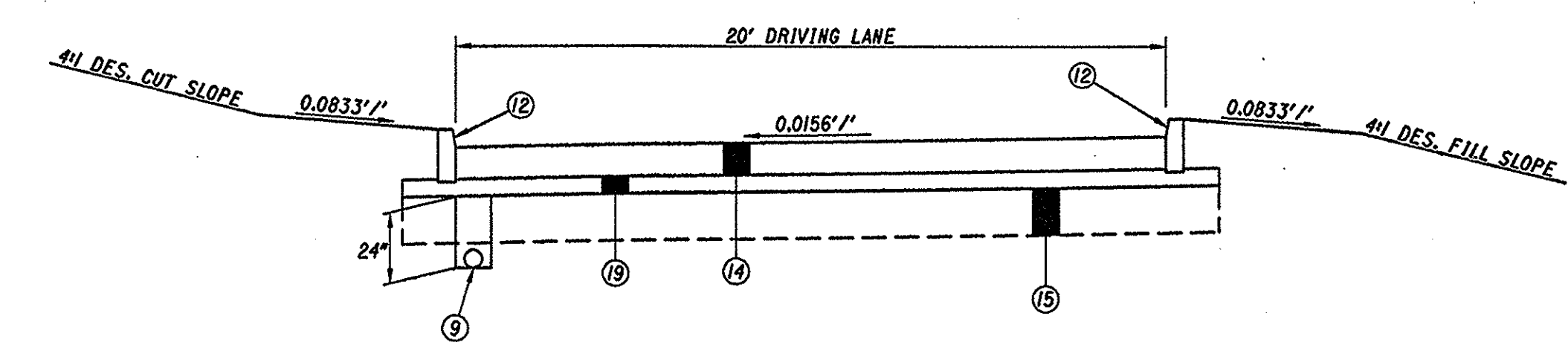
SEMI TRUCK PARKING LOT TYPICAL SECTION
SEE LAYOUT AND GRADING PLANS FOR PAVEMENT DIMENSIONS AND GRADES



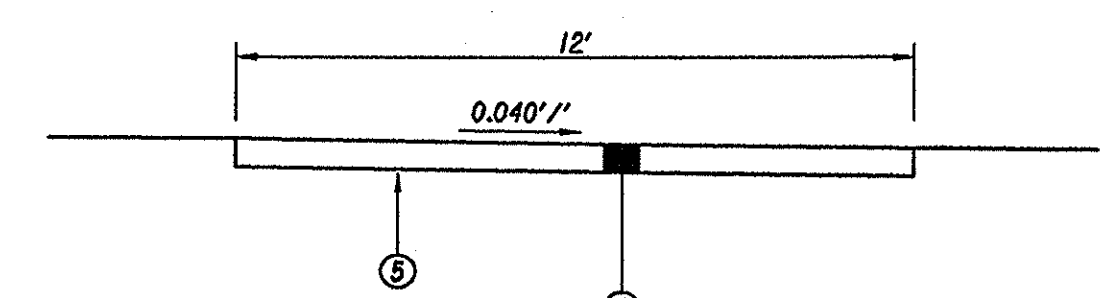
TYPE 7 MODIFIED CURB DETAIL
WESTBOUND SITE PARKING LOT ISLAND



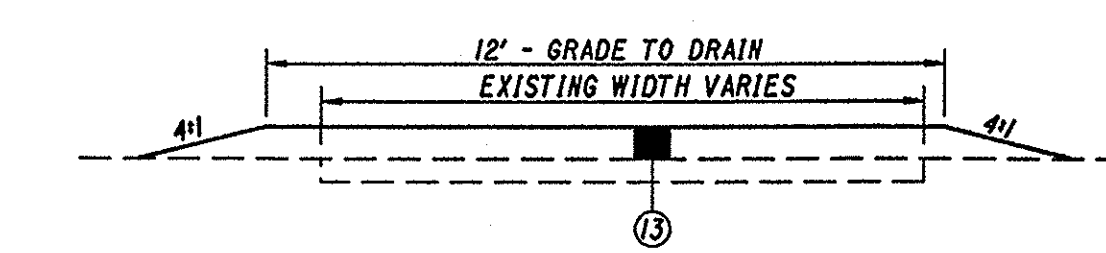
DROP CURB DETAILS AT DRIVEWAYS



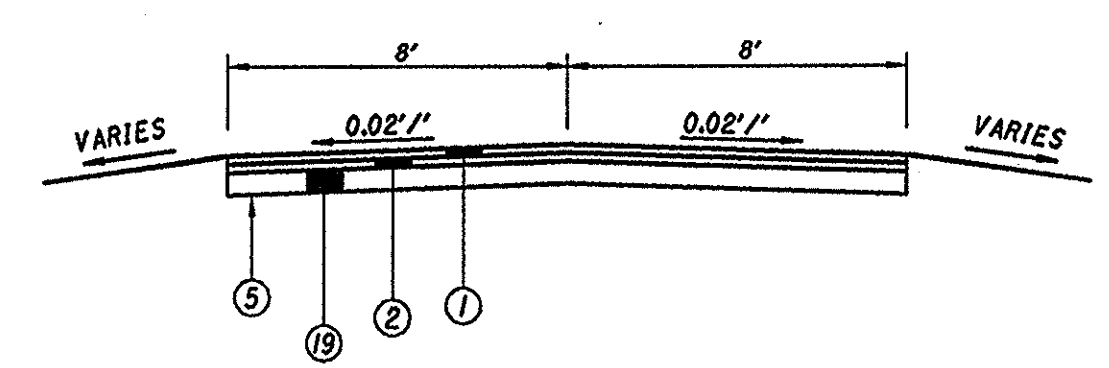
EASTBOUND SITE AUTOMOBILE PARKING RAMP (TYPICAL)
SEE LAYOUT AND GRADING PLANS FOR GRADES AND CURB LOCATIONS



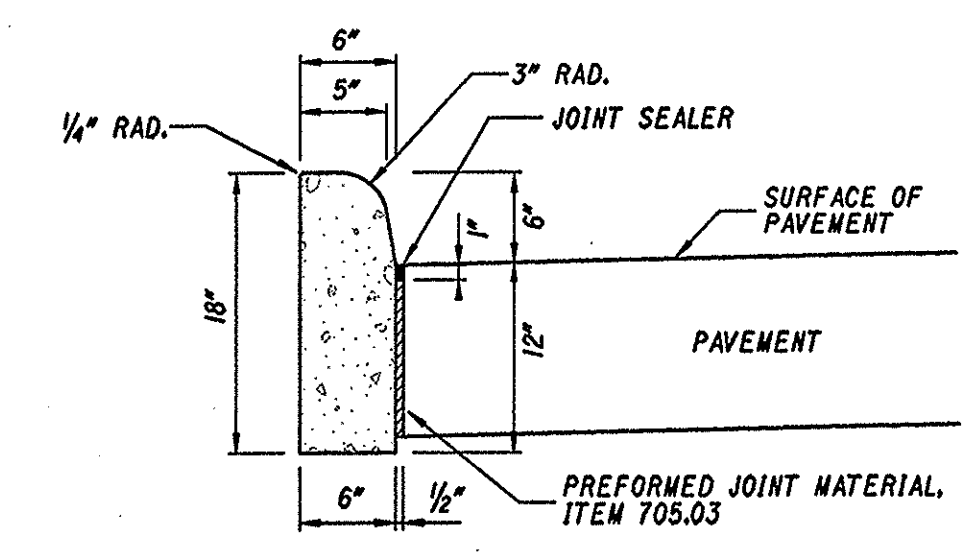
NEW AGGREGATE SERVICE DRIVE



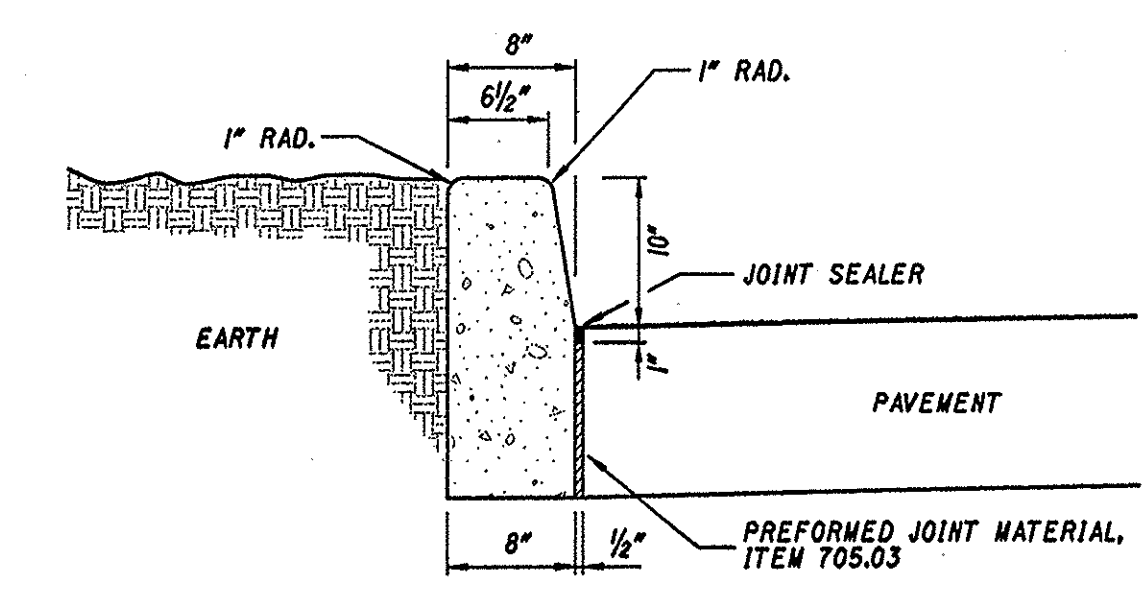
EXISTING AGGREGATE SERVICE DRIVE REHABILITATION



ASPHALT SERVICE DRIVE



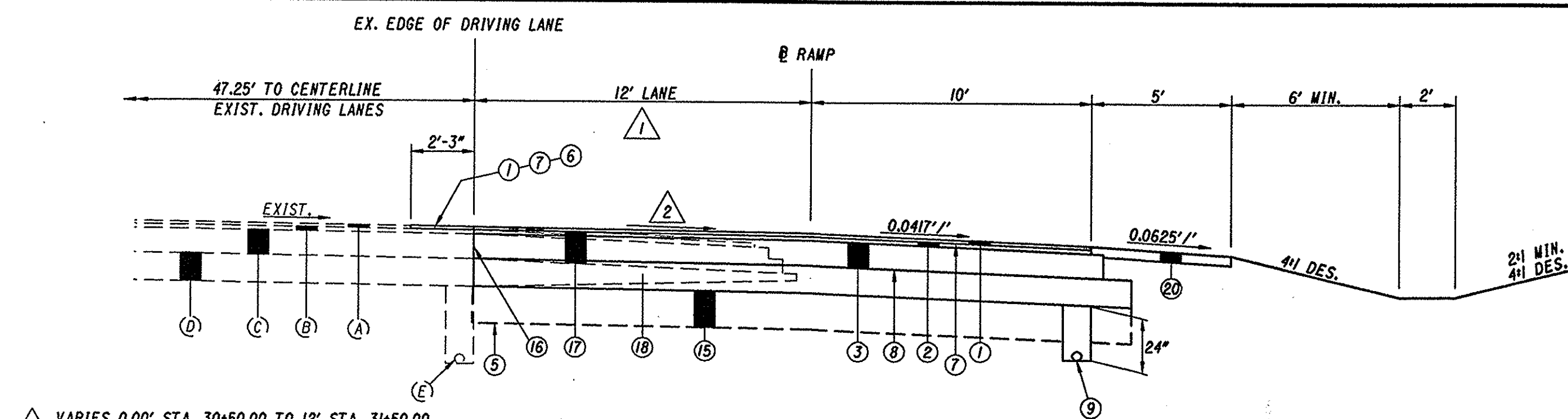
CURB TYPE 6



CURB TYPE 7

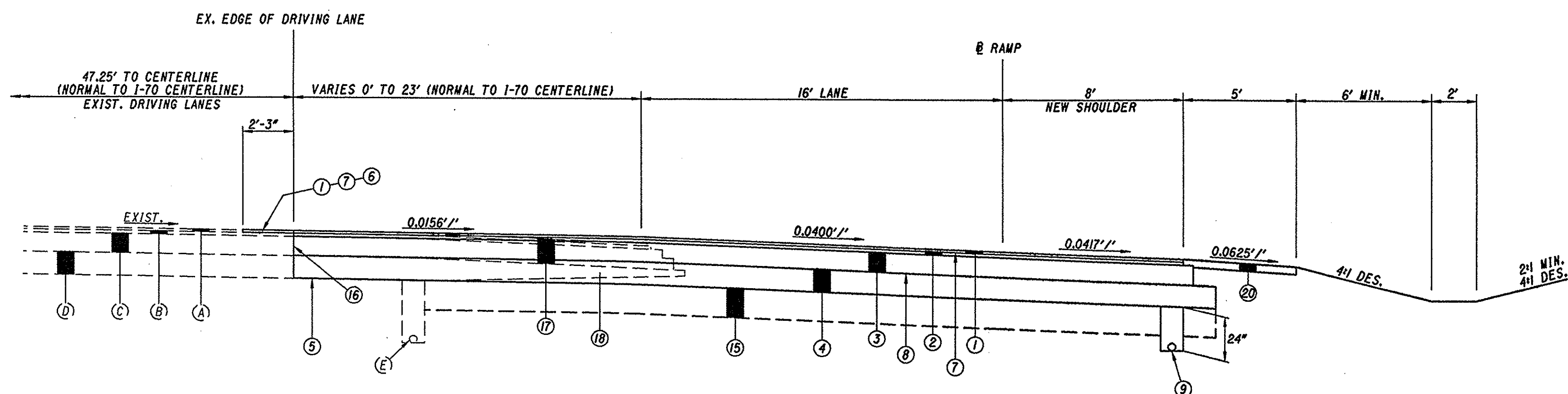
CONSULTING ARCHITECTS & ENGINEERS ARCHITECT OFFICE OF THE STATE ARCHITECT MECHANICAL, ELECTRICAL & STRUCTURAL SRA, INC. SITE/CIVIL DESIGN LANDSCAPE ARCHITECTURE KINZELMAN KLINE																				
REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>			NO.	DATE	DESCRIPTION															
NO.	DATE		DESCRIPTION																	
FOR: OHIO DEPT. OF TRANSPORTATION DRAWING DESCRIPTION: TYPICAL SECTIONS PROJECT NO. 770-2003-074 I-70 / LICKING COUNTY REST AREA STATE OF OHIO DEPARTMENT OF ADMINISTRATIVE SERVICES GENERAL SERVICES DIVISION PREPARED BY GENERAL SERVICES DIVISION OFFICE OF THE STATE ARCHITECT																				
BID/CONSTRUCTION SET REV DATE 20 JULY, 2004	DATE AUGUST, 2004	C0.06																		

...:\pwworking\cd\4986006.dgn 07/20/2004 10:06:47 AM

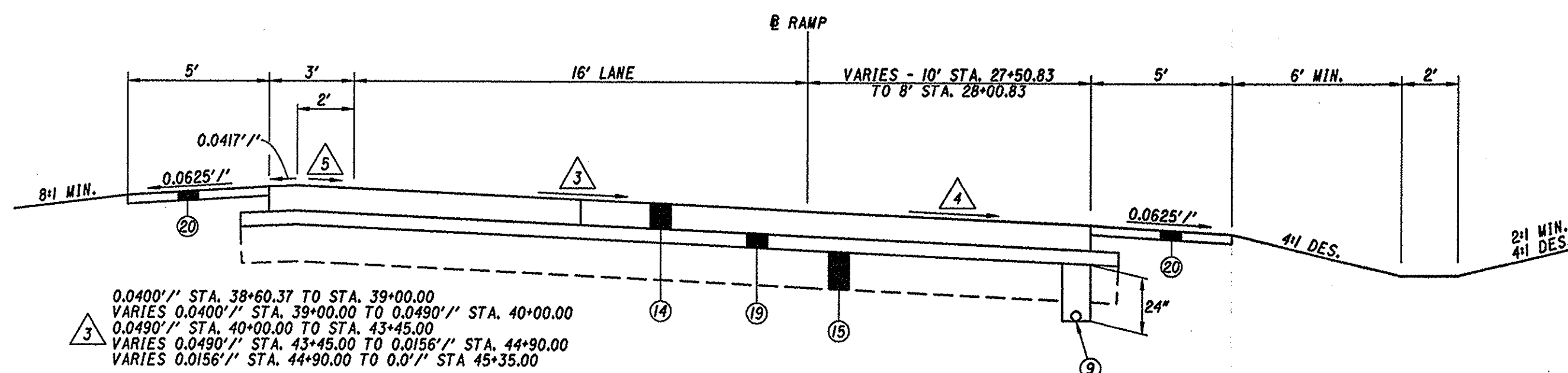


VARIES 0.00' STA. 30+50.00 TO 12' STA. 31+50.00
VARIES 12' STA. 34+16.06 TO 16' STA. 35+73.30
0.0156' FROM STA. 30+50.00 TO STA. 34+00.00
VARIES 0.0156' STA. 34+00.00 TO 0.0400' STA. 34+50.00
0.0400' FROM STA. 34+50.00 TO STA. 34+16.06

**RAMP E - PROPOSED WIDENING
ADJACENT TO EX. I-70 ASPHALT PAVEMENT
STA. 30+50.00 TO STA. 35+73.30**

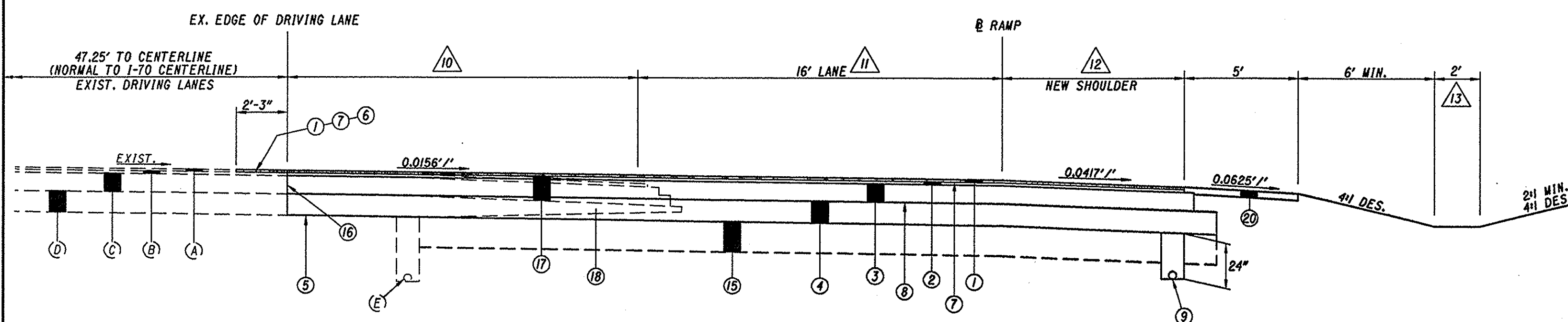


**RAMP E - PROPOSED WIDENING
ADJACENT TO EX. I-70 ASPHALT PAVEMENT
STA. 35+73.30 TO STA. 38+60.37**



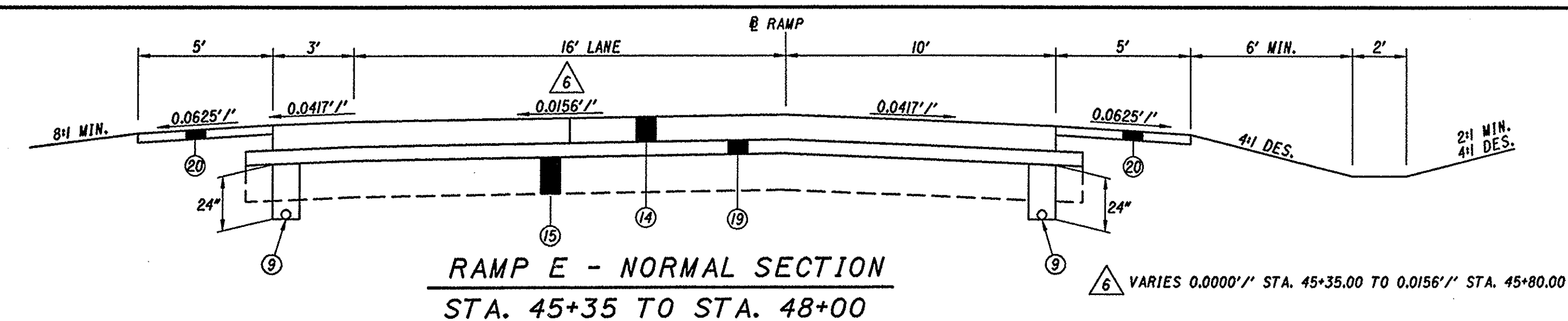
0.0400' STA. 38+60.37 TO STA. 39+00.00
VARIES 0.0400' STA. 39+00.00 TO 0.0490' STA. 40+00.00
0.0490' STA. 40+00.00 TO STA. 43+45.00
VARIES 0.0490' STA. 43+45.00 TO 0.0156' STA. 44+90.00
VARIES 0.0156' STA. 44+90.00 TO 0.0' STA. 45+35.00
0.0417' STA. 38+60.37 TO STA. 39+00.00
VARIES 0.0417' STA. 39+00.00 TO 0.0490' STA. 40+00.00
0.0490' STA. 40+00.00 TO STA. 43+45.00
VARIES 0.0490' STA. 43+45.00 TO 0.0417' STA. 44+00.00
0.0417' STA. 44+00.00 TO STA. 45+35.00
0.0400' STA. 38+60.37 TO STA. 39+00.00
VARIES 0.0400' STA. 39+00.00 TO 0.0490' STA. 40+00.00
0.0490' STA. 40+00.00 TO STA. 43+45.00
VARIES 0.0490' STA. 43+45.00 TO 0.0156' STA. 44+90.00
VARIES 0.0156' STA. 44+90.00 TO -0.0417' STA. 45+35.00

**RAMP E - SUPERELEVATED SECTION
STA. 38+60.37 TO STA. 45+35.00**

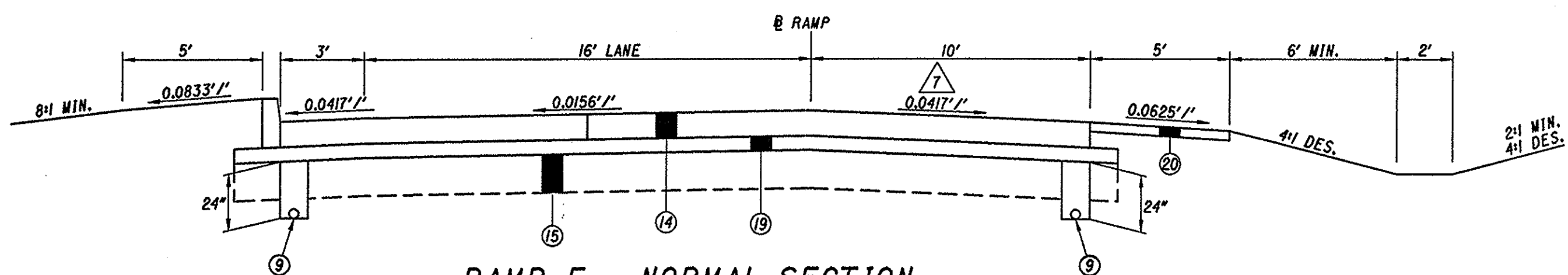


VARIES 20' STA. 63+85.89 TO 0' STA. 73+43.46
0' STA. 73+43.46 TO STA. 76+58.56
16' STA. 63+85.89 TO STA. 73+43.46
VARIES 16' STA. 73+43.46 TO 9.4' STA. 76+58.56
6' STA. 63+85.89 TO STA. 65+17.21
VARIES 6' STA. 65+17.21 TO 0' STA. 66+04.48
0' STA. 66+04.48 TO STA. 76+58.56
END ROADSIDE DITCH STA. 70+00.00

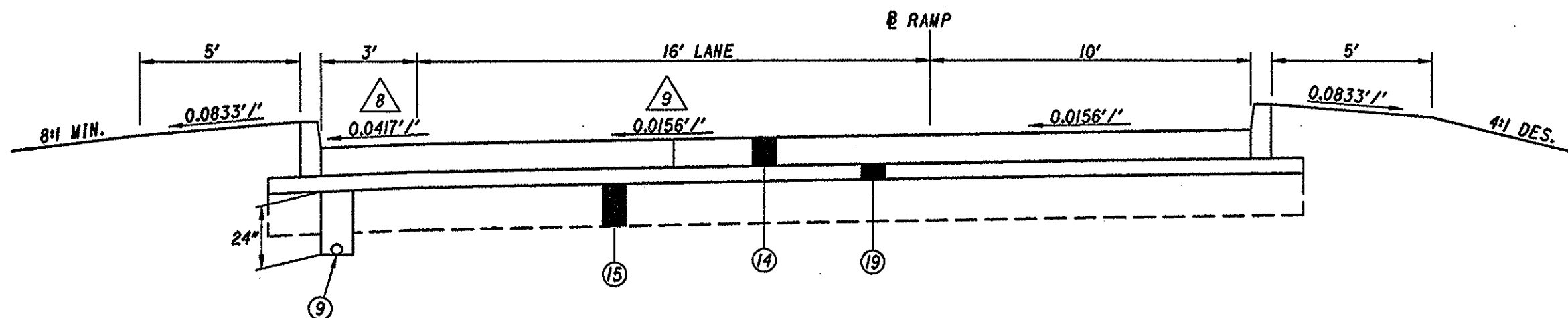
**RAMP F - PROPOSED WIDENING
ADJACENT TO EX. I-70 ASPHALT PAVEMENT
STA. 63+85.89 TO STA. 76+58.56**



**RAMP E - NORMAL SECTION
STA. 45+35 TO STA. 48+00**

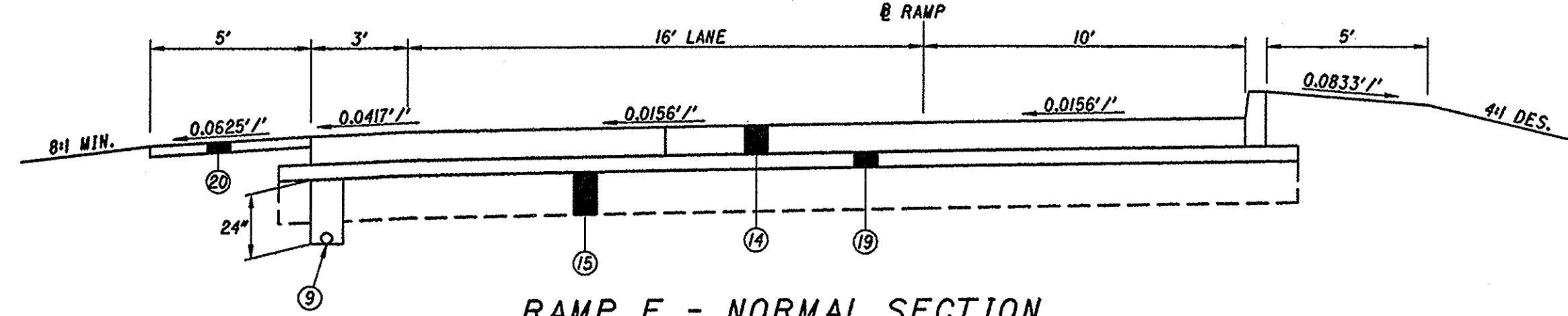


**RAMP E - NORMAL SECTION
STA. 48+00 TO STA. 49+00**

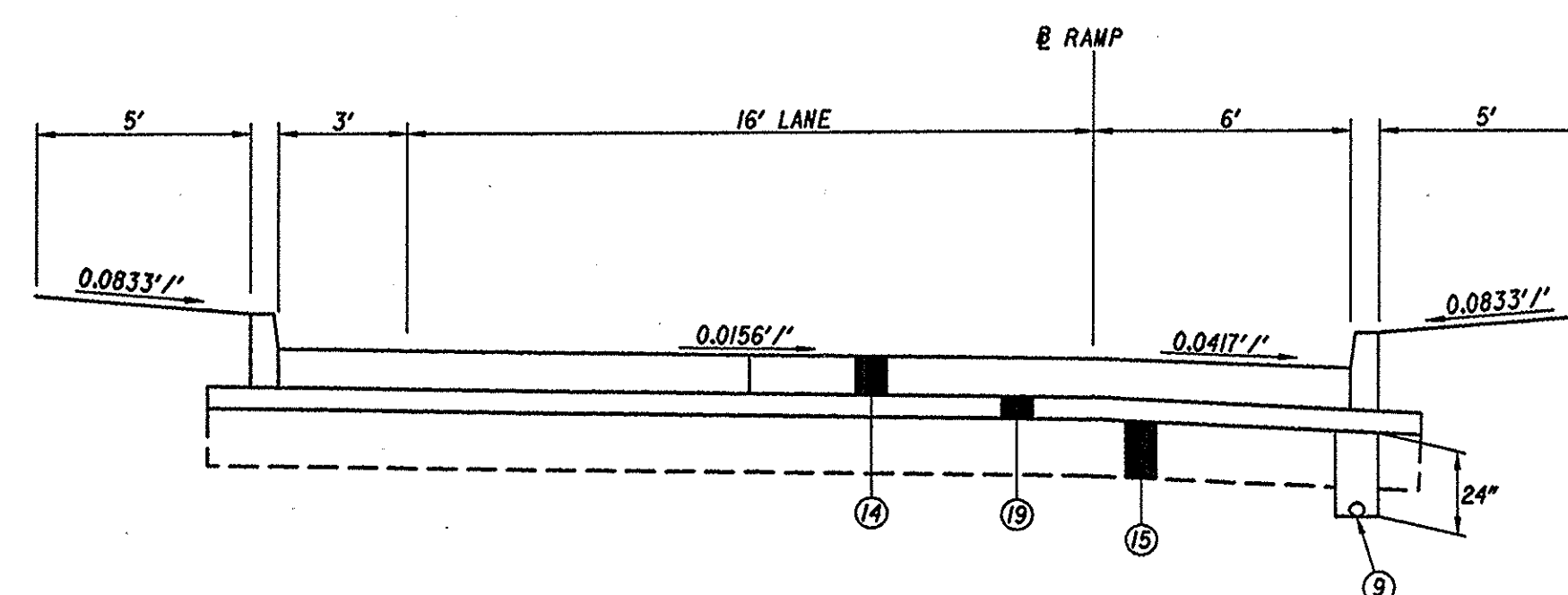


**RAMP E - NORMAL SECTION
STA. 49+00 TO STA. 56+10**

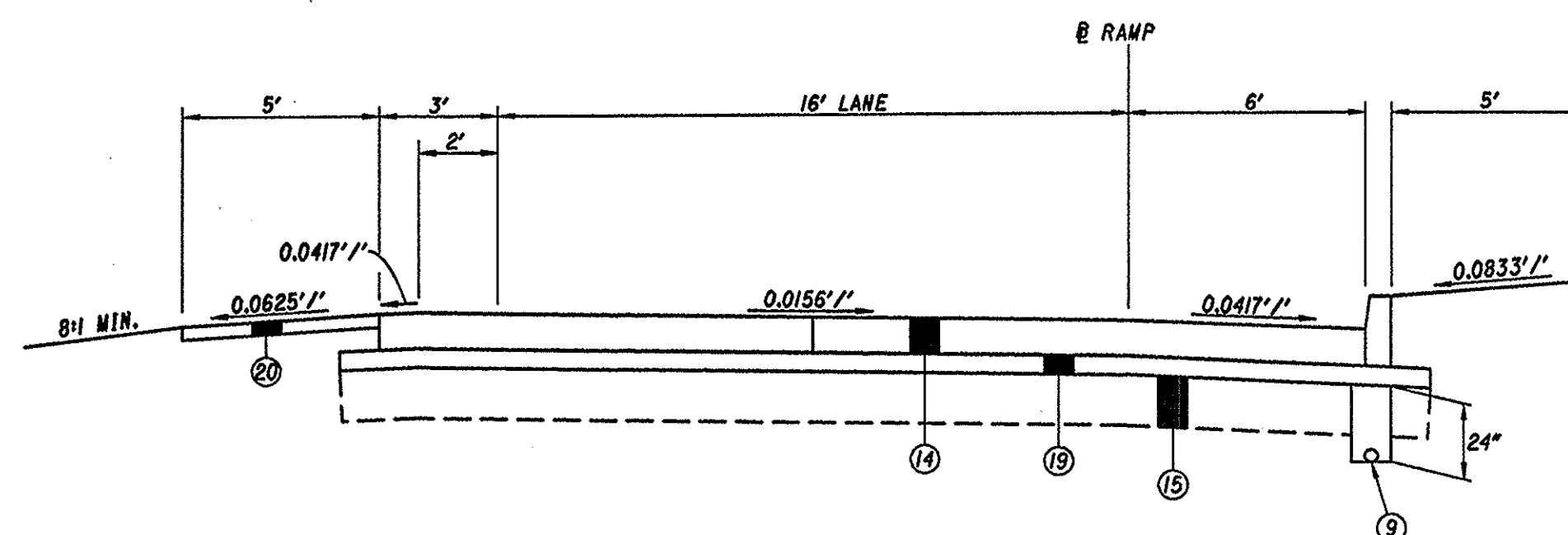
VARIES 0.0417' STA. 54+51.15 TO 0.0600' STA. 54+80.00
0.0600' STA. 54+80.00 TO STA. 55+35.00
VARIES 0.0600' STA. 55+35.00 TO 0.0417' STA. 55+65.91
VARIES 0.0156' STA. 54+10.00 TO 0.0600' STA. 54+80.00
0.0600' STA. 54+80.00 TO STA. 55+35.00
VARIES 0.0600' STA. 55+35.00 TO 0.0156' STA. 56+10.00



**RAMP E - NORMAL SECTION
STA. 56+10 TO STA. 63+14.08**



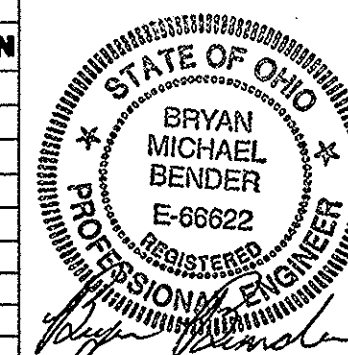
**RAMP F - NORMAL SECTION
STA. 53+00 TO STA. 56+94.16**



**RAMP F - NORMAL SECTION
STA. 56+94.16 TO STA. 63+85.89**

CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT
OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL & STRUCTURAL
SRA, INC.
CIVIL
KZF DESIGN
LANDSCAPE ARCHITECTURE
KINZELMAN KLINE

REVISIONS
NO. DATE DESCRIPTION



FOR:
OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
TYPICAL SECTIONS

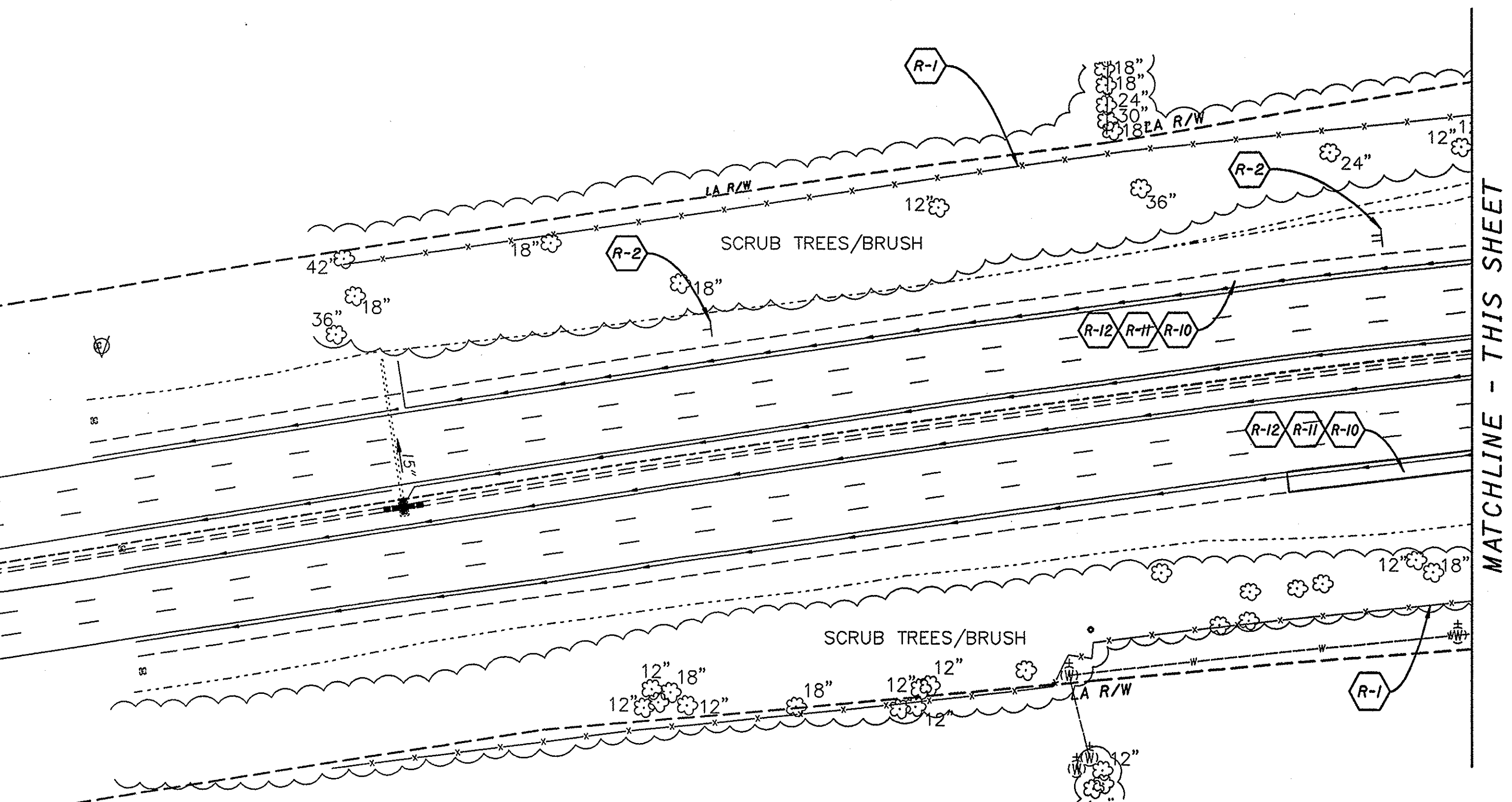
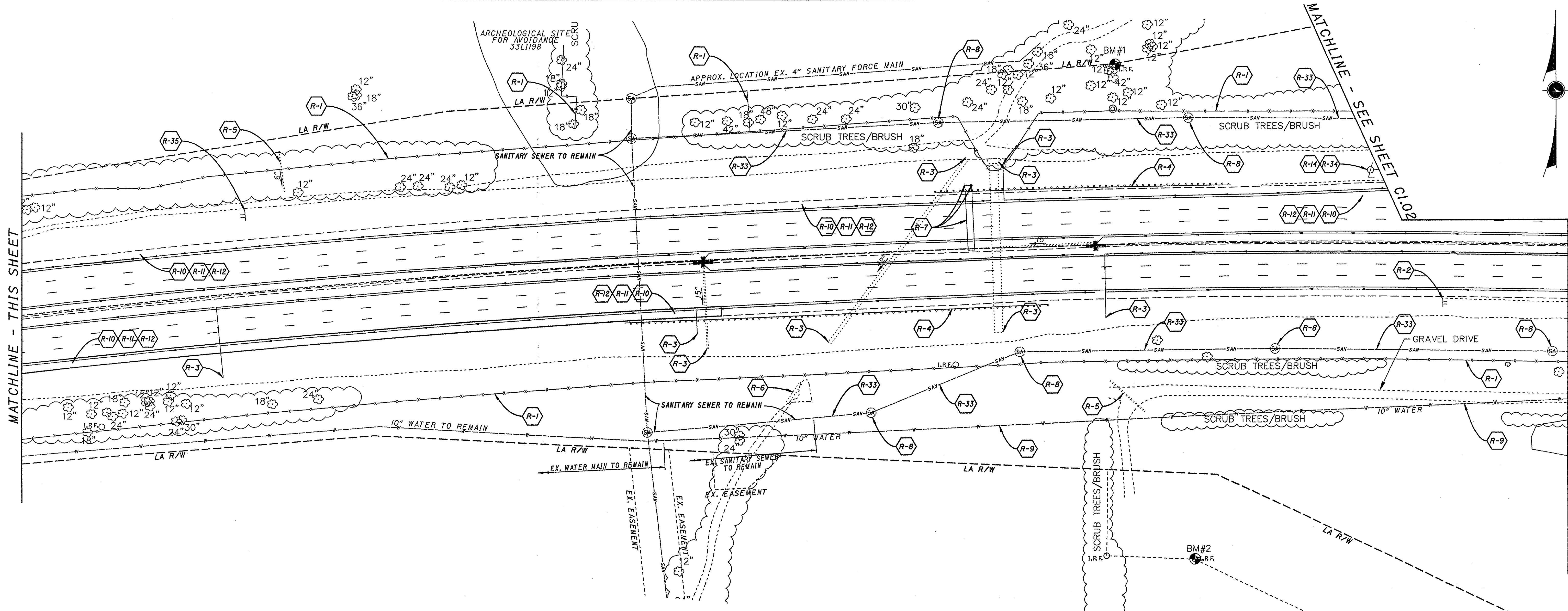
PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY:
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLOT DATE: 20 JULY, 2004
DATE: AUGUST, 2004
C0.07

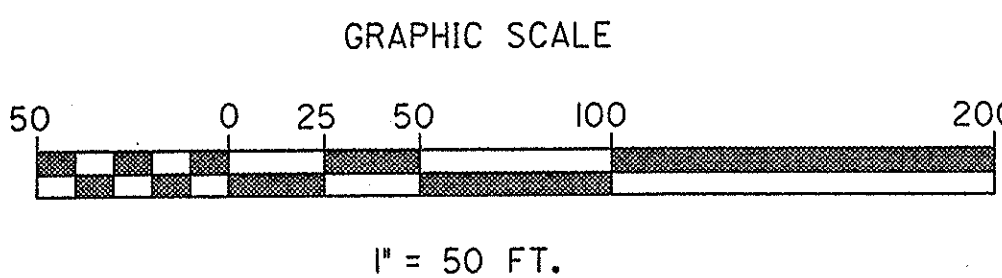
MATCHLINE - THIS SHEET

MATCHLINE - SEE SHEET C1.04



LEGEND	
R-1	REMOVE EXISTING FENCE
R-2	SIGN REMOVED
R-3	HEADWALL REMOVED
R-4	GUARDRAIL REMOVED
R-5	PIPE REMOVED, 24\" AND UNDER
R-6	PIPE REMOVED, OVER 24\"
R-7	OVERHEAD SIGN SUPPORT REMOVED
R-8	MANHOLE REMOVED
R-9	WATER MAIN REMOVED
R-10	PAVEMENT REMOVED
R-11	BASE REMOVED
R-12	PAVEMENT PLANING, ASPHALT
R-13	LIGHT POLE REMOVED
R-14	LIGHT POLE FOUNDATION REMOVED
R-15	ELECTRIC/TELEPHONE DUCT AND CABLE REMOVED
R-16	WATER LINES REMOVED, 4\" AND UNDER
R-17	UNDERGROUND WATER TANK REMOVED
R-18	WATER VALVE PIT REMOVED
R-19	CATCH BASIN REMOVED
R-20	CURB REMOVED
R-21	WALK REMOVED
R-22	GUARDRAIL POST REMOVED
R-23	MISC. CONCRETE REMOVED
R-24	CHARCOAL GRILL AND SERVING TABLE REMOVED
R-25	PICNIC TABLE REMOVED
R-26	STRUCTURE REMOVED, EXISTING BUILDING
R-27	STRUCTURE REMOVED, SHELTER HOUSE
R-28	STRUCTURE REMOVED, UTILITY SHED
R-29	STRUCTURE REMOVED, BRICK WELL HOUSE
R-30	PULL BOX REMOVED
R-31	TRANSFORMER REMOVED
R-32	WATER VALVE REMOVED
R-33	SANITARY SEWER PIPE REMOVED
R-34	LIGHT POLE REMOVED AND RETURNED TO OWNER
R-35	SIGN REMOVED FOR RE-USE

- NOTES:
- ALL EXISTING TREES, STUMPS, BUSHES AND BRUSH WITHIN WORK LIMITS TO BE REMOVED UNDER CLEARING AND GRUBBING FOR PAYMENT. NO ADDITIONAL QUANTITIES HAVE BEEN ADDED FOR REMOVAL OF EXISTING TREES.
 - UNDERGROUND CONDUITS, CABLES, PULL BOXES AND PIPES WITHIN THE RIGHT OF WAY BUT OUTSIDE OF THE WORK LIMITS MAY BE ABANDONED IN PLACE WITH THE APPROVAL OF THE ENGINEER.
 - REMOVAL OF 10\" WATER LINE TO BE COORDINATED WITH THE LICKING COUNTY WATER AND SEWER DEPARTMENT. THE EXISTING WATER LINE SHALL NOT BE REMOVED UNTIL CONSTRUCTION OF THE PROPOSED WATER LINE RELOCATION HAS BEEN CONSTRUCTED.
 - SEE GENERAL NOTES SHEET FOR ADDITIONAL NOTES.



CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL & STRUCTURAL
SRA, INC.
SITE/CIVIL:
KZF DESIGN
LANDSCAPE ARCHITECTURE:
KINZELMAN KLINE

REVISIONS		
NO.	DATE	DESCRIPTION

FOR:
OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
WEST RAMPS - DEMOLITION PLAN

PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

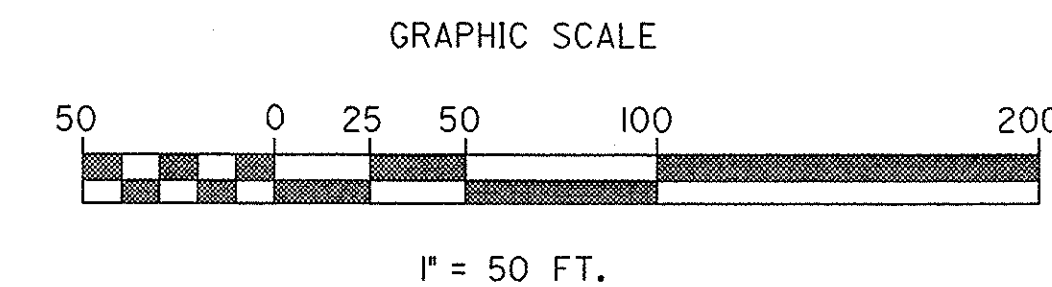
STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLAT DATE	DATE	C1.01
20 JULY, 2004	AUGUST, 2004	

BID/CONSTRUCTION SET

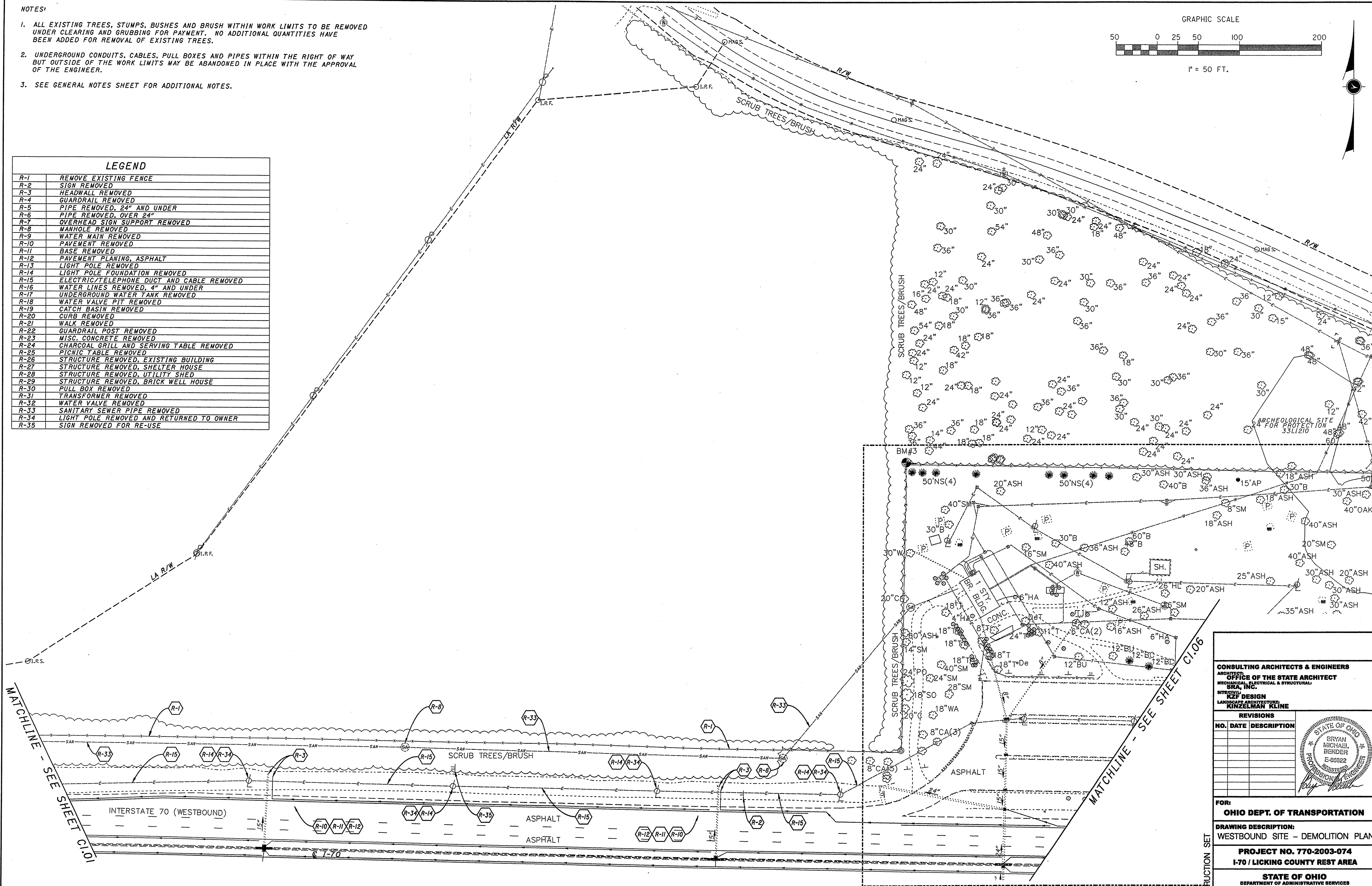
NOTES:

1. ALL EXISTING TREES, STUMPS, BUSHES AND BRUSH WITHIN WORK LIMITS TO BE REMOVED UNDER CLEARING AND GRUBBING FOR PAYMENT. NO ADDITIONAL QUANTITIES HAVE BEEN ADDED FOR REMOVAL OF EXISTING TREES.
2. UNDERGROUND CONDUITS, CABLES, PULL BOXES AND PIPES WITHIN THE RIGHT OF WAY BUT OUTSIDE OF THE WORK LIMITS MAY BE ABANDONED IN PLACE WITH THE APPROVAL OF THE ENGINEER.
3. SEE GENERAL NOTES SHEET FOR ADDITIONAL NOTES.



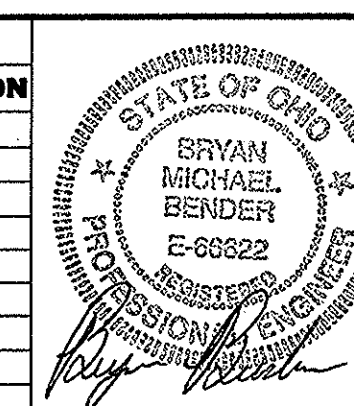
LEGEND

R-1	REMOVE EXISTING FENCE
R-2	SIGN REMOVED
R-3	HEADWALL REMOVED
R-4	GUARDRAIL REMOVED
R-5	PIPE REMOVED, 24" AND UNDER
R-6	PIPE REMOVED, OVER 24"
R-7	OVERHEAD SIGN SUPPORT REMOVED
R-8	MANHOLE REMOVED
R-9	WATER MAIN REMOVED
R-10	PAVEMENT REMOVED
R-11	BASE REMOVED
R-12	PAVEMENT PLANING, ASPHALT
R-13	LIGHT POLE REMOVED
R-14	LIGHT POLE FOUNDATION REMOVED
R-15	ELECTRIC/TELEPHONE DUCT AND CABLE REMOVED
R-16	WATER LINES REMOVED, 4" AND UNDER
R-17	UNDERGROUND WATER TANK REMOVED
R-18	WATER VALVE PIT REMOVED
R-19	CATCH BASIN REMOVED
R-20	CURB REMOVED
R-21	WALK REMOVED
R-22	GUARDRAIL POST REMOVED
R-23	MISC. CONCRETE REMOVED
R-24	CHARCOAL GRILL AND SERVING TABLE REMOVED
R-25	PICNIC TABLE REMOVED
R-26	STRUCTURE REMOVED, EXISTING BUILDING
R-27	STRUCTURE REMOVED, SHELTER HOUSE
R-28	STRUCTURE REMOVED, UTILITY SHED
R-29	STRUCTURE REMOVED, BRICK WELL HOUSE
R-30	PULL BOX REMOVED
R-31	TRANSFORMER REMOVED
R-32	WATER VALVE REMOVED
R-33	SANITARY SEWER PIPE REMOVED
R-34	LIGHT POLE REMOVED AND RETURNED TO OWNER
R-35	SIGN REMOVED FOR RE-USE



CONSULTING ARCHITECTS & ENGINEERS
 ARCHITECT
 OFFICE OF THE STATE ARCHITECT
 SRA, INC.
 MECHANICAL ELECTRICAL & STRUCTURAL
 STRUCTURE
 KZF DESIGN
 LANDSCAPE ARCHITECTURE
 KINZELMAN KLINE

REVISIONS		
NO.	DATE	DESCRIPTION



FOR:
 OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
 WESTBOUND SITE - DEMOLITION PLAN

PROJECT NO. 770-2003-074
 I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
 DEPARTMENT OF ADMINISTRATIVE SERVICES
 GENERAL SERVICES DIVISION
 PREPARED BY
 GENERAL SERVICES DIVISION
 OFFICE OF THE STATE ARCHITECT

DATE	DATE	DATE
20 JULY, 2004	AUGUST, 2004	C1.02

BID/CONSTRUCTION SET

SEE SHEET C1.03 FOR SITE DETAIL

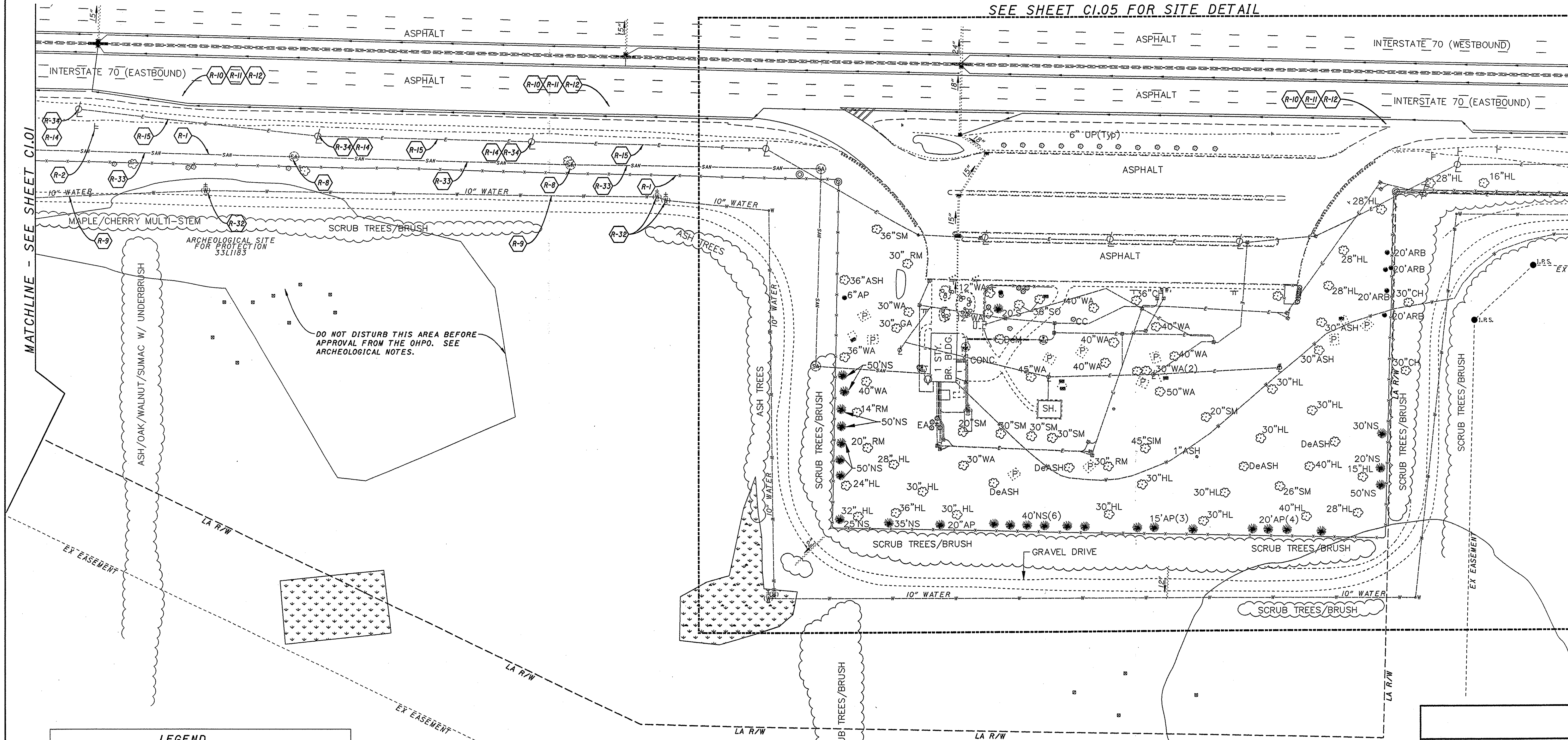
MATCHLINE - SEE SHEET C1.06

MATCHLINE - SEE SHEET C1.01

SEE SHEET C1.05 FOR SITE DETAIL

MATCHLINE - SEE SHEET C1.01

MATCHLINE - SEE SHEET C1.06



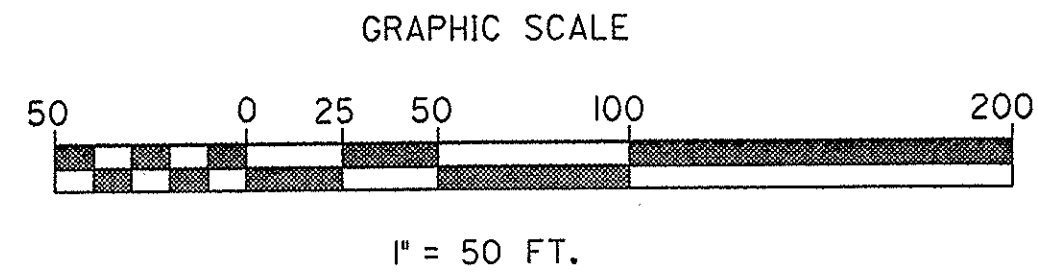
LEGEND

R-1	REMOVE EXISTING FENCE
R-2	SIGN REMOVED
R-3	HEADWALL REMOVED
R-4	GUARDRAIL REMOVED
R-5	PIPE REMOVED, 24" AND UNDER
R-6	PIPE REMOVED, OVER 24"
R-7	OVERHEAD SIGN SUPPORT REMOVED
R-8	MANHOLE REMOVED
R-9	WATER MAIN REMOVED
R-10	PAVEMENT REMOVED
R-11	BASE REMOVED
R-12	PAVEMENT PLANING, ASPHALT
R-13	LIGHT POLE REMOVED
R-14	LIGHT POLE FOUNDATION REMOVED
R-15	ELECTRIC/TELEPHONE DUCT AND CABLE REMOVED
R-16	WATER LINES REMOVED, 4" AND UNDER
R-17	UNDERGROUND WATER TANK REMOVED
R-18	WATER VALVE PIT REMOVED
R-19	CATCH BASIN REMOVED
R-20	CURB REMOVED
R-21	WALK REMOVED
R-22	GUARDRAIL POST REMOVED
R-23	MISC. CONCRETE REMOVED
R-24	CHARCOAL GRILL AND SERVING TABLE REMOVED
R-25	PICNIC TABLE REMOVED
R-26	STRUCTURE REMOVED, EXISTING BUILDING
R-27	STRUCTURE REMOVED, SHELTER HOUSE
R-28	STRUCTURE REMOVED, UTILITY SHED
R-29	STRUCTURE REMOVED, BRICK WELL HOUSE
R-30	PULL BOX REMOVED
R-31	TRANSFORMER REMOVED
R-32	WATER VALVE REMOVED
R-33	SANITARY SEWER PIPE REMOVED
R-34	LIGHT POLE REMOVED AND RETURNED TO OWNER

NOTES:

- ALL EXISTING TREES, STUMPS, BUSHES AND BRUSH WITHIN WORK LIMITS TO BE REMOVED UNDER CLEARING AND GRUBBING FOR PAYMENT. NO ADDITIONAL QUANTITIES HAVE BEEN ADDED FOR REMOVAL OF EXISTING TREES.
- UNDERGROUND CONDUITS, CABLES, PULL BOXES AND PIPES WITHIN THE RIGHT OF WAY BUT OUTSIDE OF THE WORK LIMITS MAY BE ABANDONED IN PLACE WITH THE APPROVAL OF THE ENGINEER.
- REMOVAL OF 10" WATER LINE TO BE COORDINATED WITH THE LICKING COUNTY WATER AND SEWER DEPARTMENT. THE EXISTING WATER LINE SHALL NOT BE REMOVED UNTIL CONSTRUCTION OF THE PROPOSED WATER LINE RELOCATION HAS BEEN CONSTRUCTED.
- SEE GENERAL NOTES SHEET FOR ADDITIONAL NOTES.

DO NOT DISTURB THIS AREA BEFORE APPROVAL FROM THE OHPO. SEE ARCHEOLOGICAL NOTES.



CONSULTING ARCHITECTS & ENGINEERS

ARCHITECT: OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL & STRUCTURAL: SRA, INC.
SITEWORK: KZF DESIGN
LANDSCAPE ARCHITECTURE: KINZELMAN KLINE

REVISIONS		
NO.	DATE	DESCRIPTION

FOR: OHIO DEPT. OF TRANSPORTATION

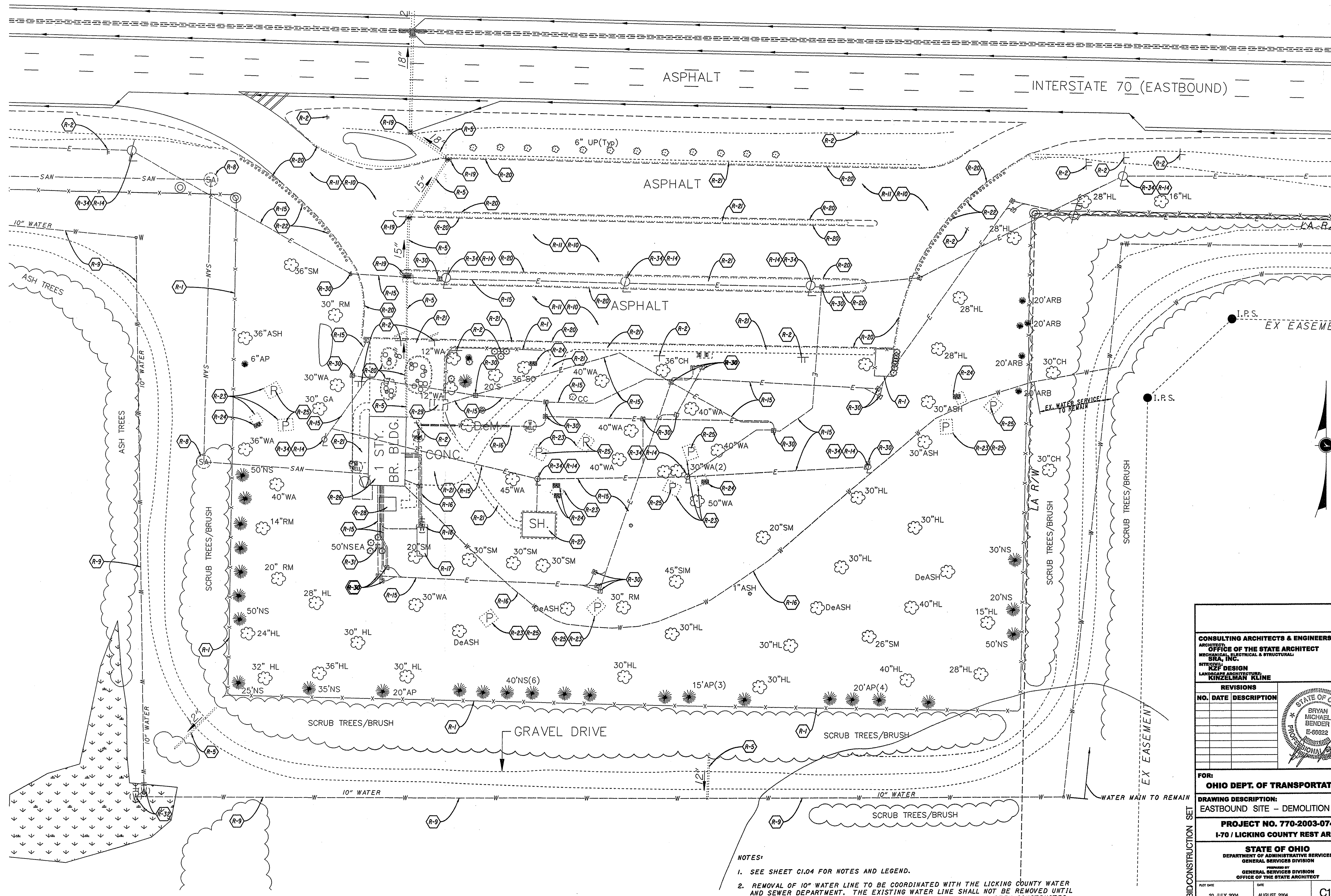
DRAWING DESCRIPTION: EASTBOUND SITE - DEMOLITION PLAN

PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

DATE	DATE	DATE
20 JULY, 2004	AUGUST, 2004	C1.04





- NOTES:
- SEE SHEET C1.04 FOR NOTES AND LEGEND.
 - REMOVAL OF 10" WATER LINE TO BE COORDINATED WITH THE LICKING COUNTY WATER AND SEWER DEPARTMENT. THE EXISTING WATER LINE SHALL NOT BE REMOVED UNTIL CONSTRUCTION OF THE PROPOSED WATER LINE RELOCATION HAS BEEN COMPLETED.

CONSULTING ARCHITECTS & ENGINEERS
OFFICE OF THE STATE ARCHITECT
 MECHANICAL, ELECTRICAL & STRUCTURAL
 SRA, INC.
 SITE DESIGN
 LANDSCAPE ARCHITECTURE
 KINZELMAN KLINE

REVISIONS		
NO.	DATE	DESCRIPTION

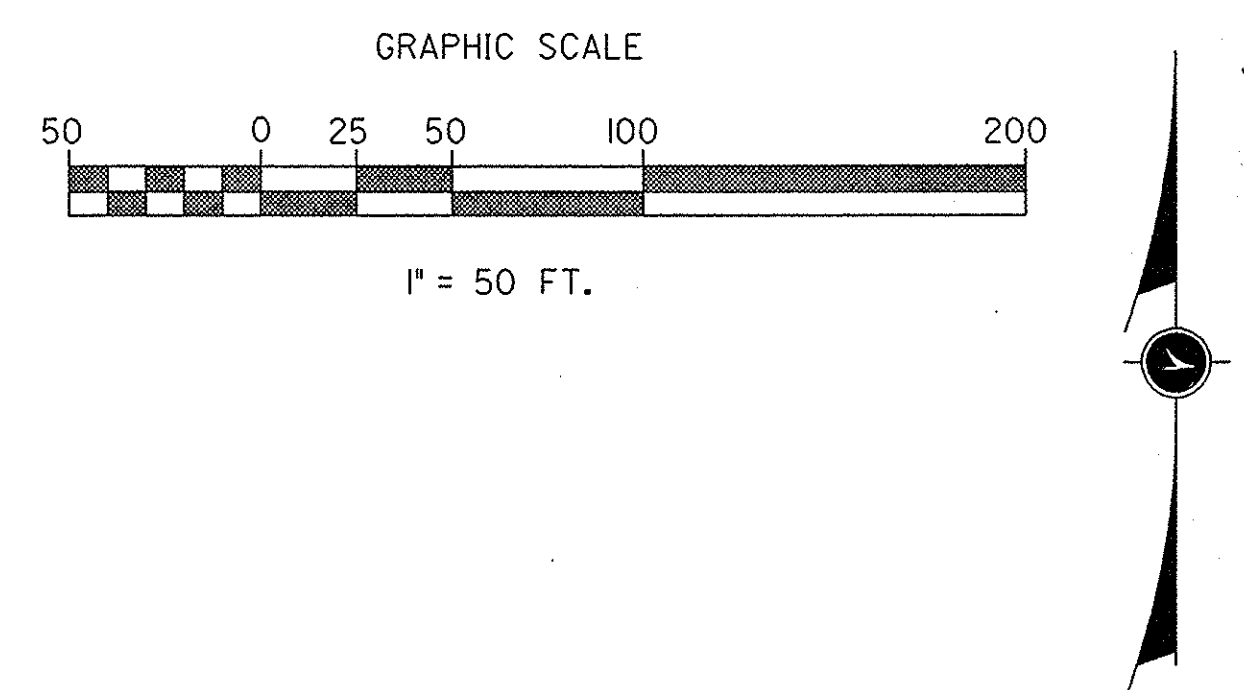
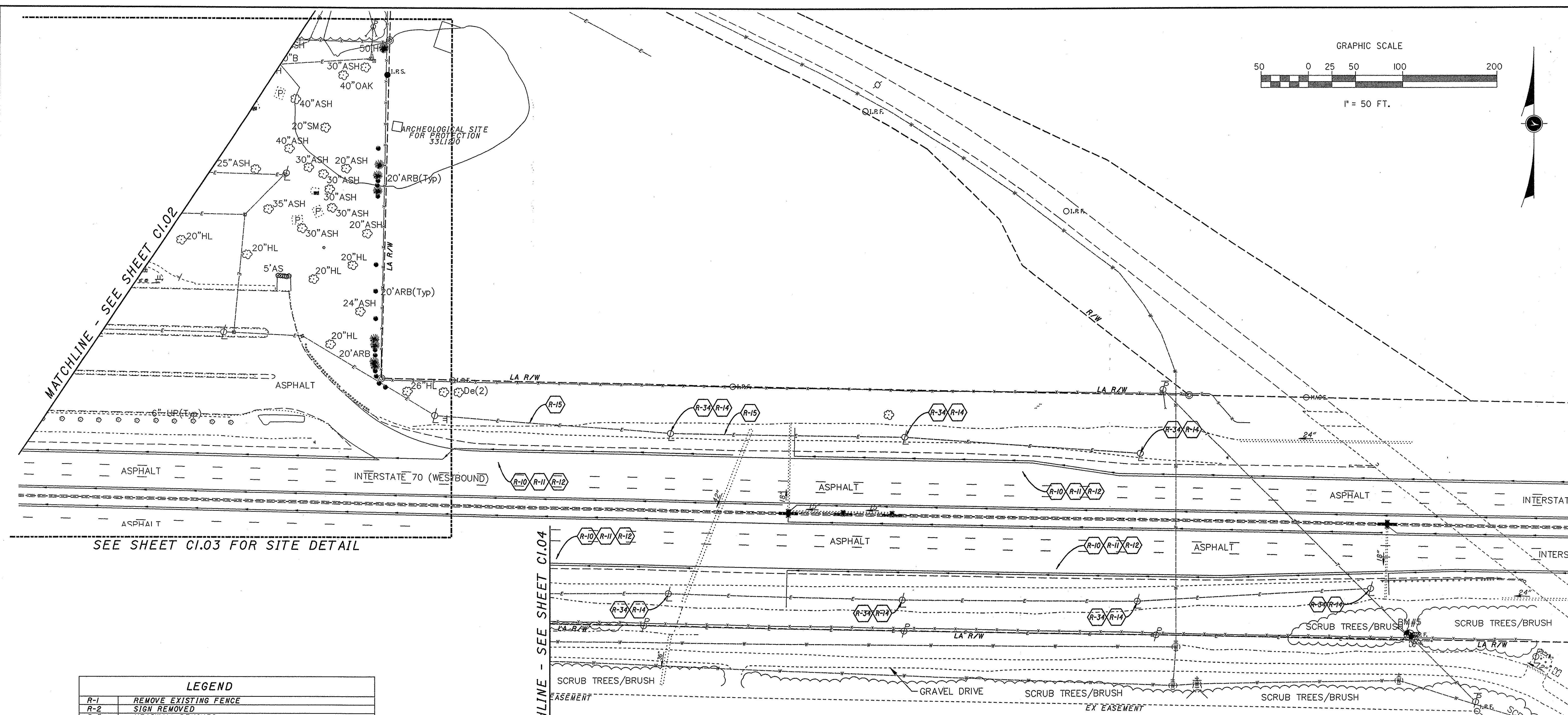
FOR:
OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
 EASTBOUND SITE - DEMOLITION PLAN

PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
 DEPARTMENT OF ADMINISTRATIVE SERVICES
 GENERAL SERVICES DIVISION
 OFFICE OF THE STATE ARCHITECT

PLOT DATE 20 JULY, 2004	DATE AUGUST, 2004	C1.05
----------------------------	----------------------	-------



LEGEND	
R-1	REMOVE EXISTING FENCE
R-2	SIGN REMOVED
R-3	HEADWALL REMOVED
R-4	GUARDRAIL REMOVED
R-5	PIPE REMOVED, 24" AND UNDER
R-6	PIPE REMOVED, OVER 24"
R-7	OVERHEAD SIGN SUPPORT REMOVED
R-8	MANHOLE REMOVED
R-9	WATER MAIN REMOVED
R-10	PAVEMENT REMOVED
R-11	BASE REMOVED
R-12	PAVEMENT PLANING, ASPHALT
R-13	LIGHT POLE REMOVED
R-14	LIGHT POLE FOUNDATION REMOVED
R-15	ELECTRIC/TELEPHONE DUCT AND CABLE REMOVED
R-16	WATER LINES REMOVED, 4" AND UNDER
R-17	UNDERGROUND WATER TANK REMOVED
R-18	WATER VALVE PIT REMOVED
R-19	CATCH BASIN REMOVED
R-20	CURB REMOVED
R-21	WALK REMOVED
R-22	GUARDRAIL POST REMOVED
R-23	MISC. CONCRETE REMOVED
R-24	CHARCOAL GRILL AND SERVING TABLE REMOVED
R-25	PICNIC TABLE REMOVED
R-26	STRUCTURE REMOVED, EXISTING BUILDING
R-27	STRUCTURE REMOVED, SHELTER HOUSE
R-28	STRUCTURE REMOVED, UTILITY SHED
R-29	STRUCTURE REMOVED, BRICK WELL HOUSE
R-30	PULL BOX REMOVED
R-31	TRANSFORMER REMOVED
R-32	WATER VALVE REMOVED
R-33	SANITARY SEWER PIPE REMOVED
R-34	LIGHT POLE REMOVED AND RETURNED TO OWNER
R-35	SIGN REMOVED AND STORED FOR RE-USE

- NOTES:
1. ALL EXISTING TREES, STUMPS, BUSHES AND BRUSH WITHIN WORK LIMITS TO BE REMOVED UNDER CLEARING AND GRUBBING FOR PAYMENT. NO ADDITIONAL QUANTITIES HAVE BEEN ADDED FOR REMOVAL OF EXISTING TREES.
 2. UNDERGROUND CONDUITS, CABLES, PULL BOXES AND PIPES WITHIN THE RIGHT OF WAY BUT OUTSIDE OF THE WORK LIMITS MAY BE ABANDONED IN PLACE WITH THE APPROVAL OF THE ENGINEER.
 3. SEE GENERAL NOTES SHEET FOR ADDITIONAL NOTES.

CONSULTING ARCHITECTS & ENGINEERS
OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL & STRUCTURAL
SRA, INC.
SITING
KZF DESIGN
LANDSCAPE ARCHITECTURE
KINZELMAN KLINE

REVISIONS

NO.	DATE	DESCRIPTION

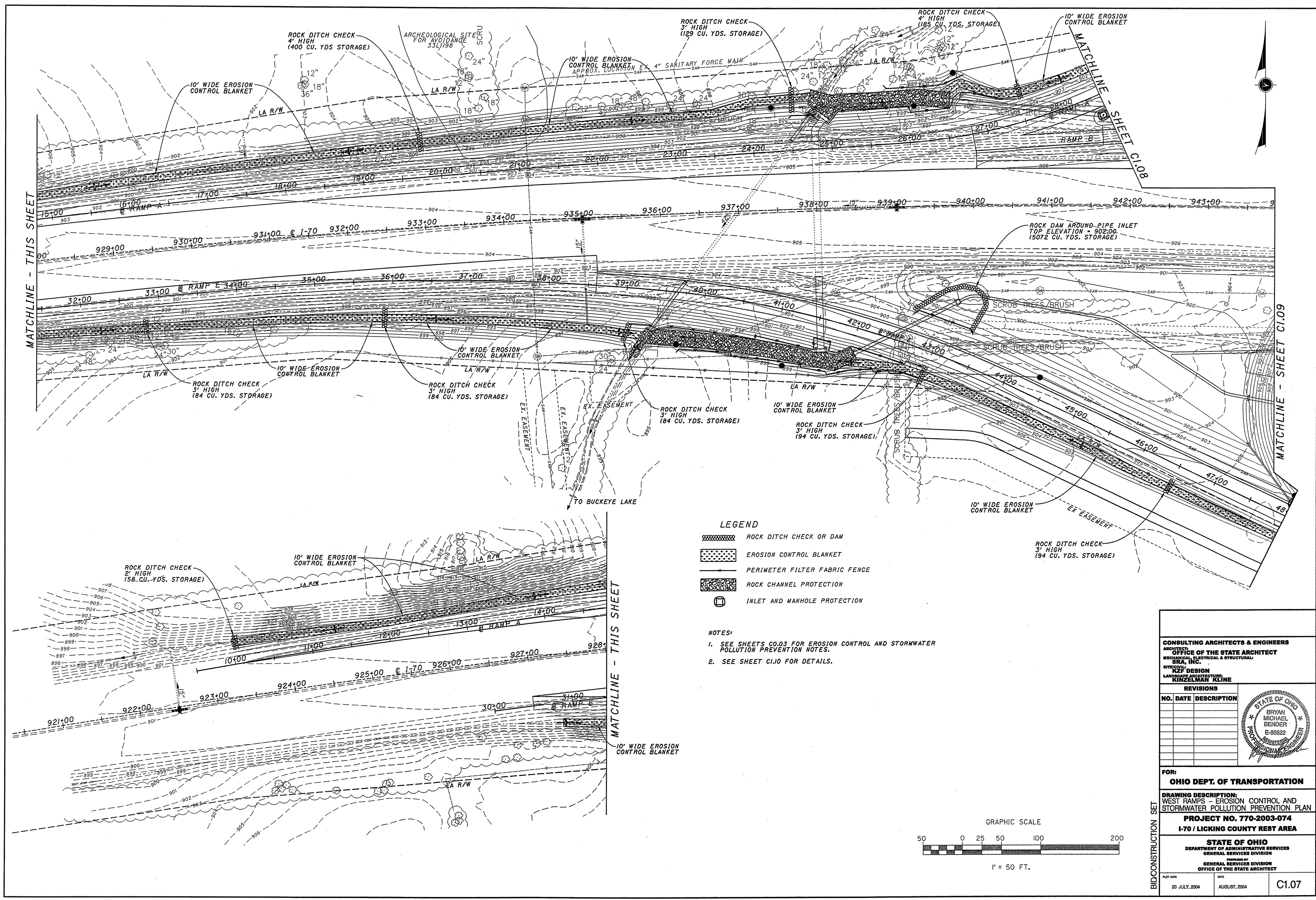
FOR:
OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
EAST RAMP - DEMOLITION PLAN

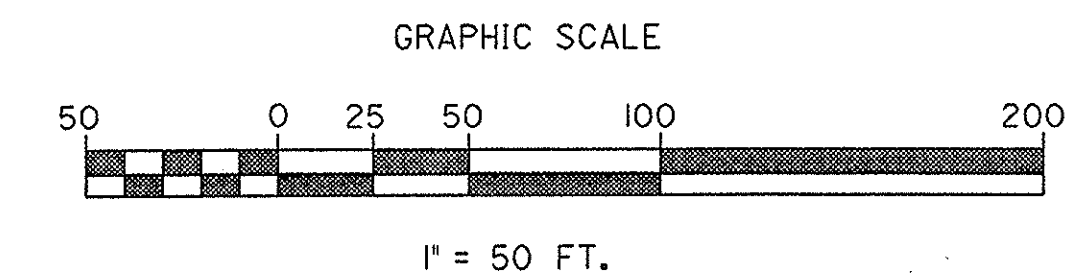
PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
FORWARDED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

DATE 20 JULY, 2004	DATE AUGUST, 2004	C1.06
-----------------------	----------------------	-------



- LEGEND**
- ROCK DITCH CHECK OR DAM
 - EROSION CONTROL BLANKET
 - PERIMETER FILTER FABRIC FENCE
 - ROCK CHANNEL PROTECTION
 - INLET AND MANHOLE PROTECTION
- NOTES:**
- SEE SHEETS C0.03 FOR EROSION CONTROL AND STORMWATER POLLUTION PREVENTION NOTES.
 - SEE SHEET C1.10 FOR DETAILS.



CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT
OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL & STRUCTURAL
SRA, INC.
SITE
KZF DESIGN
LANDSCAPE ARCHITECTURE
KINZELMAN KLINE

REVISIONS

NO.	DATE	DESCRIPTION

FOR:
OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
WEST RAMPS - EROSION CONTROL AND STORMWATER POLLUTION PREVENTION PLAN

PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLOT DATE: 20 JULY, 2004
DATE: AUGUST, 2004
C1.07

NOTES:

1. SEE SHEETS C0.03 FOR EROSION CONTROL AND STORMWATER POLLUTION PREVENTION NOTES.
2. SEE SHEET C1.10 FOR DETAILS.
3. CONTRACTOR TO PROVIDE ENGINEER WITH DESIGNATED AREAS FOR THE FOLLOWING: VEHICLE STORAGE, VEHICLE SERVICE, VEHICLE WASHING, REFUELING, MATERIAL STORAGE AND WASTE, HAZARDOUS MATERIAL STORAGE AND WASTE, TOPSOIL STOCKPILES AND CONSTRUCTION ENTRANCES IF DIFFERENT THAN SHOWN ON THESE PLANS.

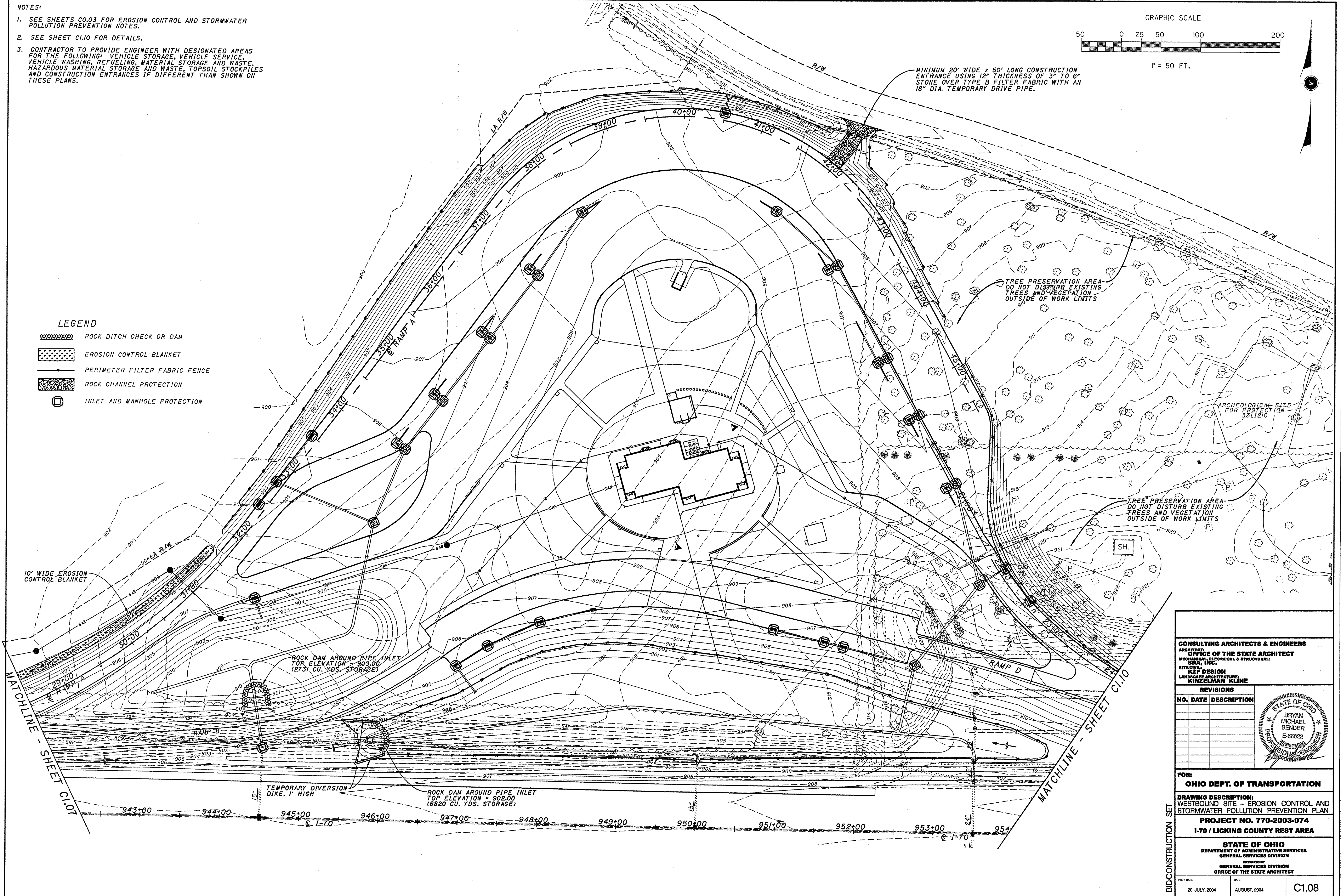
GRAPHIC SCALE

50 0 25 50 100 200

1" = 50 FT.

LEGEND

- ROCK DITCH CHECK OR DAM
- EROSION CONTROL BLANKET
- PERIMETER FILTER FABRIC FENCE
- ROCK CHANNEL PROTECTION
- INLET AND MANHOLE PROTECTION



CONSULTING ARCHITECTS & ENGINEERS

ARCHITECT

OFFICE OF THE STATE ARCHITECT

MECHANICAL, ELECTRICAL & STRUCTURAL

SRA, INC.

SITE DESIGN

LANDSCAPE ARCHITECTURE

KINZELMAN KLINE

REVISIONS

NO. DATE DESCRIPTION

NO. DATE DESCRIPTION

NO. DATE DESCRIPTION

NO. DATE DESCRIPTION

NO. DATE DESCRIPTION

NO. DATE DESCRIPTION

NO. DATE DESCRIPTION

NO. DATE DESCRIPTION

NO. DATE DESCRIPTION

NO. DATE DESCRIPTION

NO. DATE DESCRIPTION

NO. DATE DESCRIPTION

NO. DATE DESCRIPTION

NO. DATE DESCRIPTION

NO. DATE DESCRIPTION

NO. DATE DESCRIPTION

NO. DATE DESCRIPTION

NO. DATE DESCRIPTION

FOR:
OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
WESTBOUND SITE - EROSION CONTROL AND
STORMWATER POLLUTION PREVENTION PLAN

PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

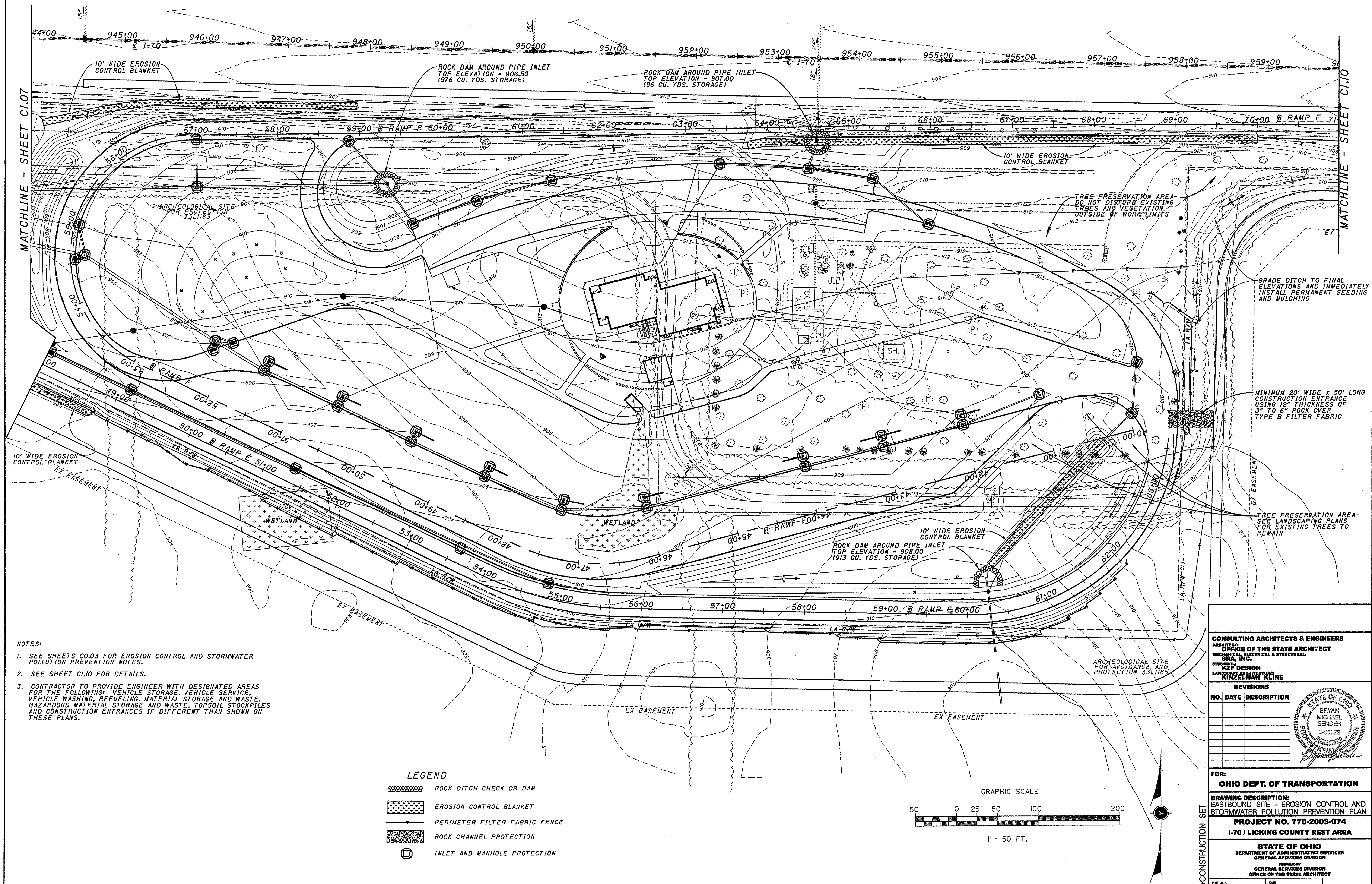
PLOT DATE

DATE

20 JULY, 2004

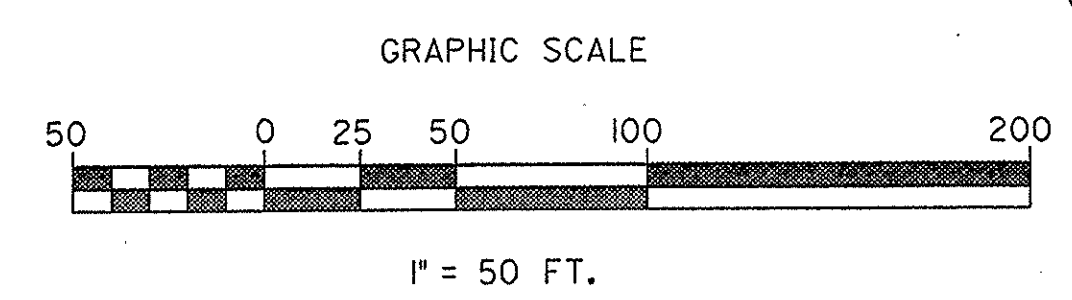
AUGUST, 2004

C1.08



- NOTES:
1. SEE SHEETS C0.03 FOR EROSION CONTROL AND STORMWATER POLLUTION PREVENTION NOTES.
 2. SEE SHEET C1.10 FOR DETAILS.
 3. CONTRACTOR TO PROVIDE ENGINEER WITH DESIGNATED AREAS FOR THE FOLLOWING: VEHICLE STORAGE, VEHICLE SERVICE, VEHICLE WASHING, REFUELING, MATERIAL STORAGE AND WASTE, HAZARDOUS MATERIAL STORAGE AND WASTE, TOPSOIL STOCKPILES AND CONSTRUCTION ENTRANCES IF DIFFERENT THAN SHOWN ON THESE PLANS.

- LEGEND
- ROCK DITCH CHECK OR DAM
 - EROSION CONTROL BLANKET
 - PERIMETER FILTER FABRIC FENCE
 - ROCK CHANNEL PROTECTION
 - INLET AND MANHOLE PROTECTION



CONSULTING ARCHITECTS & ENGINEERS
OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL & STRUCTURAL
SRA, INC.
KZF DESIGN
LANDSCAPE ARCHITECTURE
KINZELMAN KLINE

REVISIONS	
NO.	DATE DESCRIPTION

FOR:
OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
EASTBOUND SITE - EROSION CONTROL AND STORMWATER POLLUTION PREVENTION PLAN
PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

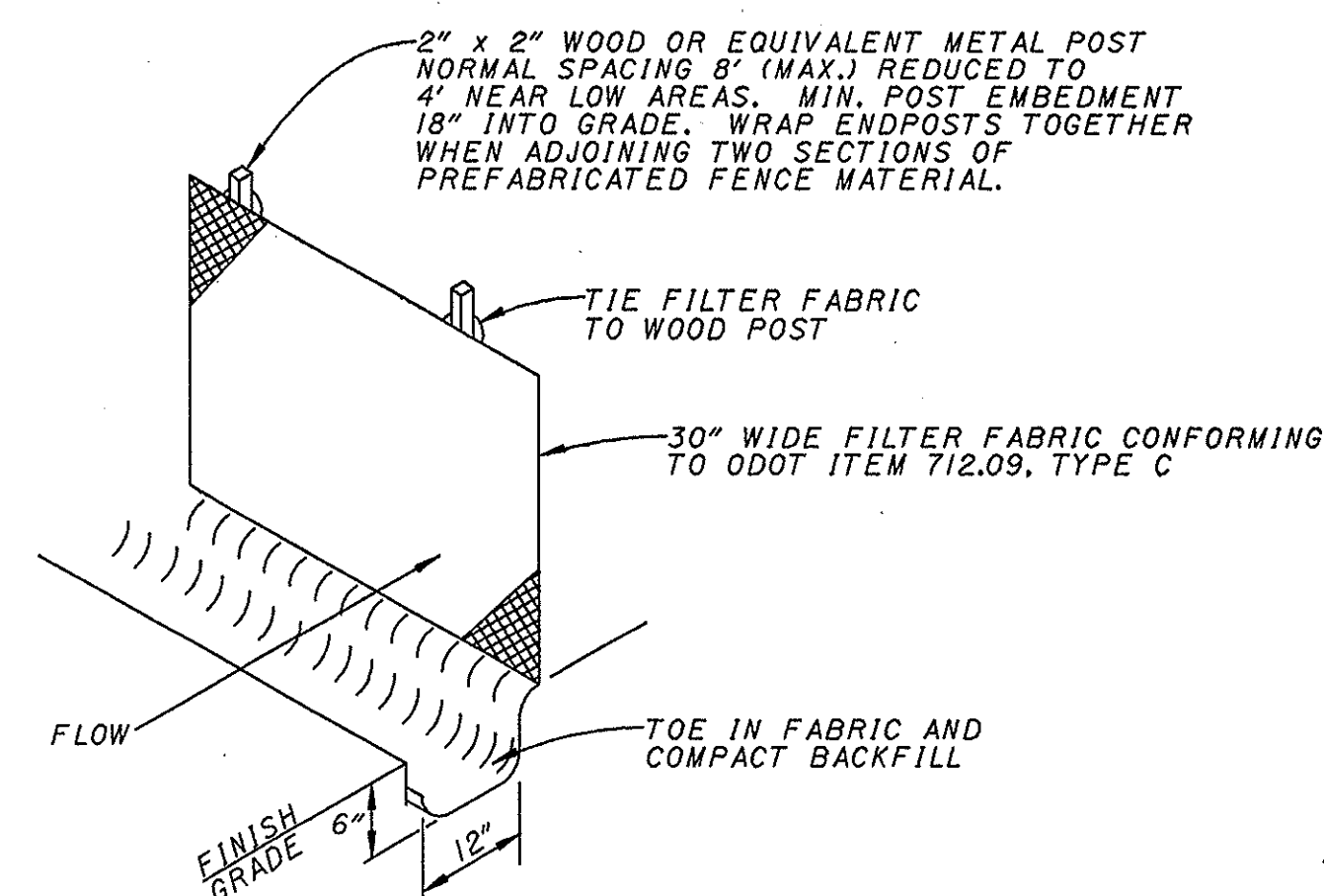
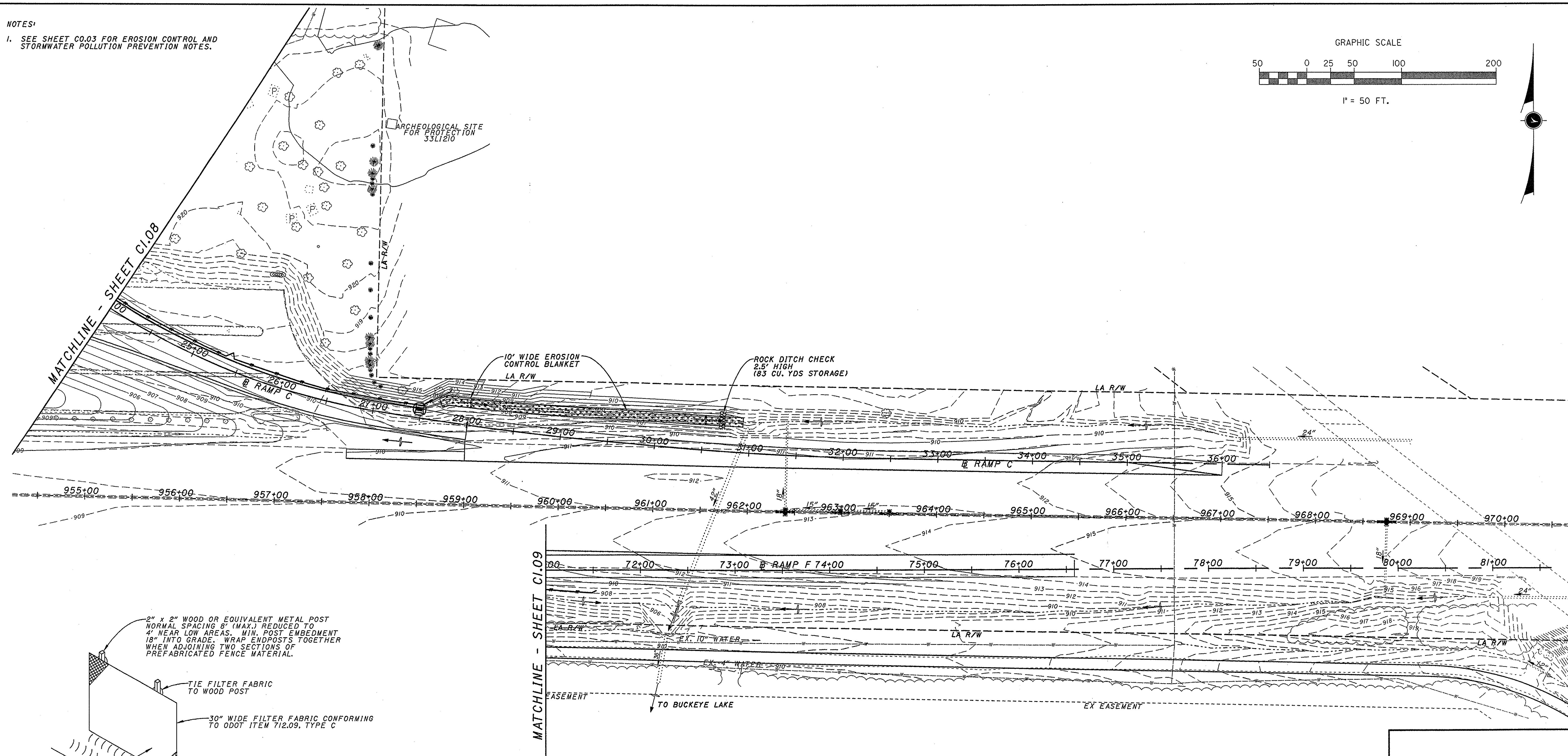
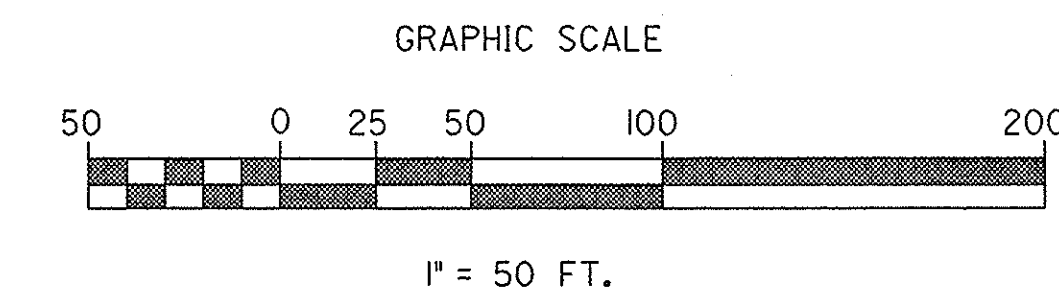
STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

DATE	DATE	
20 JULY, 2004	AUGUST, 2004	C1.09

07/20/2004 10:11:33 AM
D:\Drawings\2003\770-2003-074.dgn

NOTES:

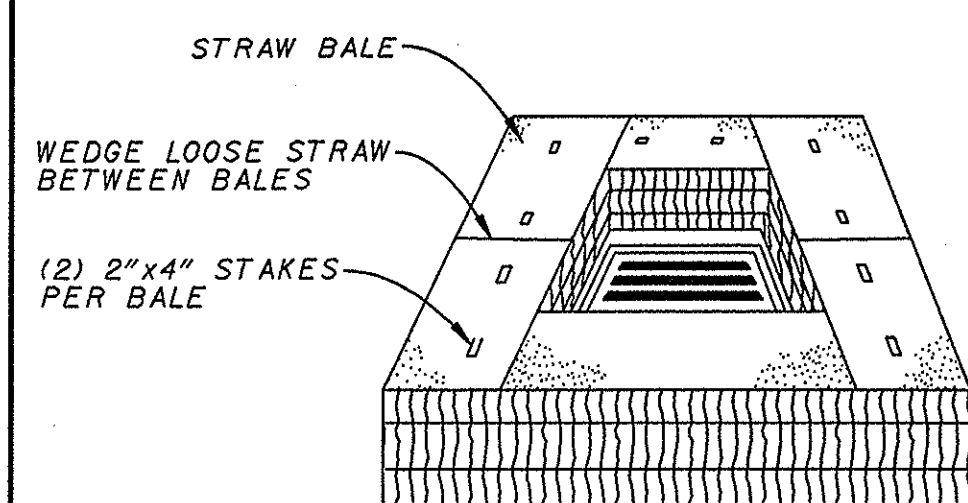
1. SEE SHEET C0.03 FOR EROSION CONTROL AND STORMWATER POLLUTION PREVENTION NOTES.



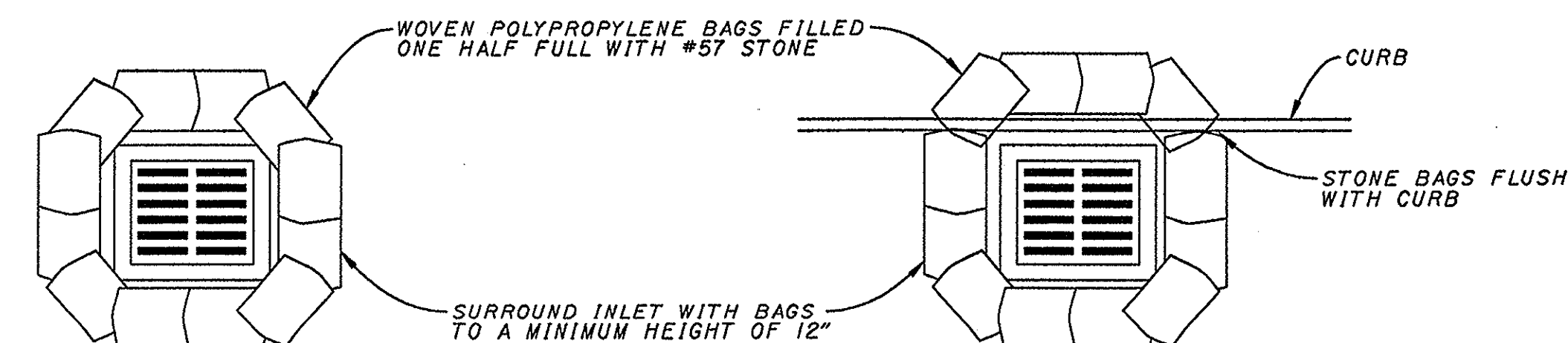
PERIMETER FILTER FABRIC FENCE

LEGEND

- ROCK DITCH CHECK OR DAM
- EROSION CONTROL BLANKET
- PERIMETER FILTER FABRIC FENCE
- ROCK CHANNEL PROTECTION
- INLET AND MANHOLE PROTECTION



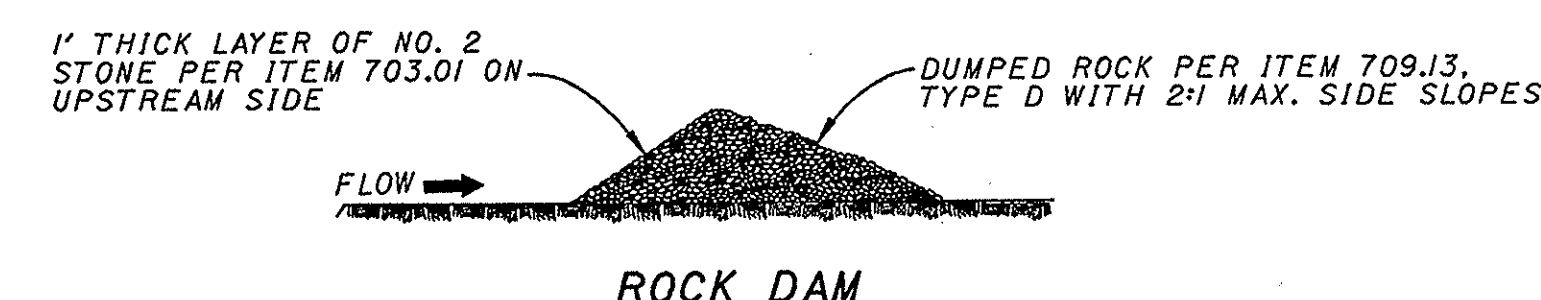
STRAW BALE INLET PROTECTION
PROVIDE BARRIERS AT ALL DRAINS, CATCH BASINS MANHOLES AND INLETS.



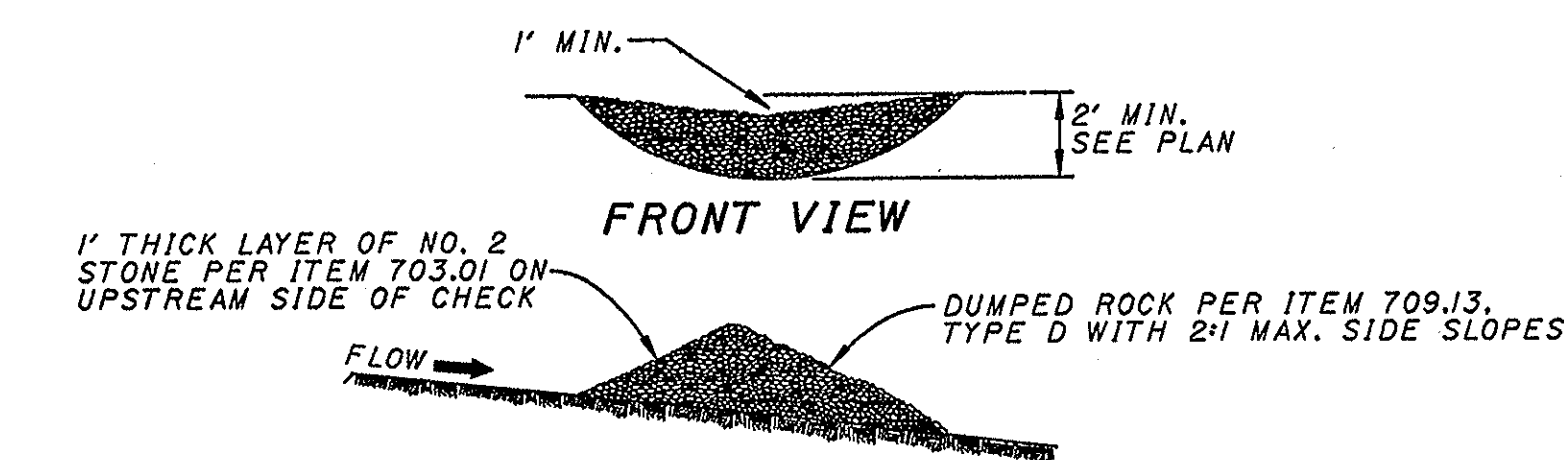
PLAN - AREA INLETS

STONE BAG INLET PROTECTION

PLAN - CURB INLETS



ROCK DAM



FRONT VIEW

SIDE VIEW

ROCK DITCH CHECK

CONSULTING ARCHITECTS & ENGINEERS

ARCHITECT
OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL & STRUCTURAL
SRA, INC.
SITEWORK
LANDSCAPE ARCHITECTURE
KINZELMAN KLINE

REVISIONS

NO.	DATE	DESCRIPTION

FOR:
OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
EAST RAMP - EROSION CONTROL AND STORMWATER POLLUTION PREVENTION PLAN
PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY:
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLOT DATE: 20 JULY, 2004
DATE: AUGUST, 2004
C1.10

BID/CONSTRUCTION SET

RAMP A CURVE DATA
 PI = 16+45.68
 Δ = 6°25'05" RT
 Dc = 0°29'51"
 R = 11516.00'
 T = 645.67'
 L = 1289.99'
 E = 18.09'
 emax = 0.0156'/'

I-70 CURVE DATA
 PI = 933+33.18
 Δ = 10°17'00" RT
 Dc = 0°30'00"
 R = 11459.16'
 T = 1031.10'
 L = 2056.67'
 E = 46.30'
 emax = 0.0156'/'

BENCHMARK #1
 I-70 STA. 939+25.20, 184.43' LT.
 NORTHING = 709176.9587
 EASTING = 1980620.6940
 EL. = 900.20

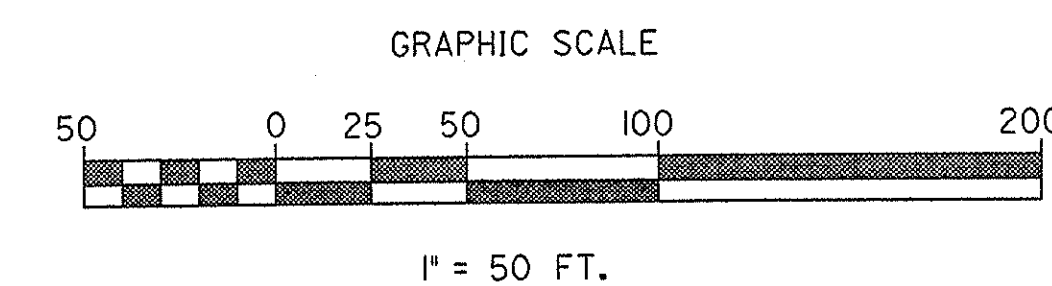
RAMP E CURVE DATA
 PI = 32+33.05
 Δ = 1°50'16" RT
 Dc = 0°30'07"
 R = 11412.00'
 T = 183.05'
 L = 366.06'
 E = 1.47'
 emax = 0.0156'/'

RAMP E CURVE DATA
 PI = 36+79.59
 Δ = 10°30'39" RT
 Dc = 2°01'00"
 R = 2865.00'
 T = 263.53'
 L = 525.58'
 E = 12.09'
 emax = 0.040'/'

RAMP E CURVE DATA
 PI = 41+77.64
 Δ = 20°34'43" RT
 Dc = 4°24'30"
 R = 1300.00'
 T = 236.00'
 L = 466.91'
 E = 21.25'
 emax = 0.049'/'

BENCHMARK #2
 I-70 STA. 940+00.52, 330.17' RT.
 NORTHING = 708663.3359
 EASTING = 1980701.9312
 EL. = 906.42

- (1) TYPE 7 CURB
- (2) TYPE 7 MODIFIED CURB
- (3) TYPE 6 CURB
- (4) ASPHALT ACCESS DRIVE
- (5) TYPE 47 FENCE
- (6) 20' WIDE DOUBLE VEHICULAR WOVEN WIRE FENCE GATE
- (7) SHOULDER RECONSTRUCTION
- (8) 5' TRANSITION FROM TYPE 7 CURB TO TYPE 6 CURB
- (9) GRAVEL ACCESS DRIVE, SEE TYPICAL SECTIONS
- (10) DROP CURB FOR DRIVEWAY
- (11) TYPE E ANCHOR ASSEMBLY
- (12) GUARDRAIL TYPE 5
- (13) GUARDRAIL, TYPE 5 - LONG SPAN
- (14) TYPE T ANCHOR ASSEMBLY
- (15) CHANNEL CROSSING TYPE 3
- (16) CHANNEL CROSSING TYPE 2



CONSULTING ARCHITECTS & ENGINEERS
 ARCHITECT
OFFICE OF THE STATE ARCHITECT
 MECHANICAL, ELECTRICAL & STRUCTURAL
SRA, INC.
 SITSVILLE
KZF DESIGN
 LANDSCAPE ARCHITECTURE
 KINZELMAN KLINE

REVISIONS		
NO.	DATE	DESCRIPTION

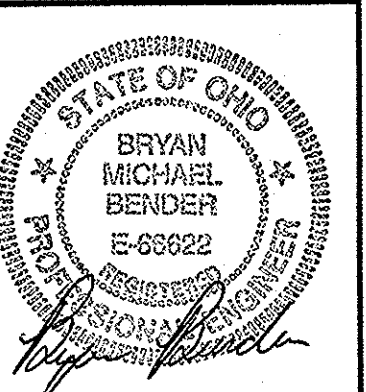
FOR:
OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
 WEST RAMPS - LAYOUT PLAN

PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
 DEPARTMENT OF ADMINISTRATIVE SERVICES
 GENERAL SERVICES DIVISION
 PREPARED BY
 GENERAL SERVICES DIVISION
 OFFICE OF THE STATE ARCHITECT

PLOT DATE: 20 JULY, 2004
 DATE: AUGUST, 2004
C2.01



BID/CONSTRUCTION SET

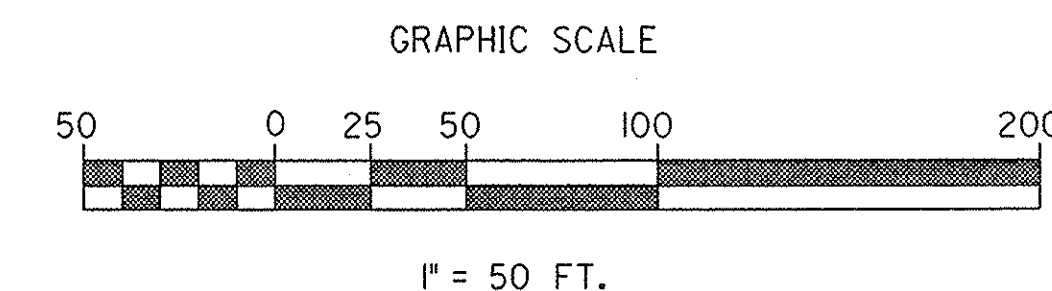
MATCHLINE - SEE SHEET C2.03

MATCHLINE - THIS SHEET

MATCHLINE - THIS SHEET

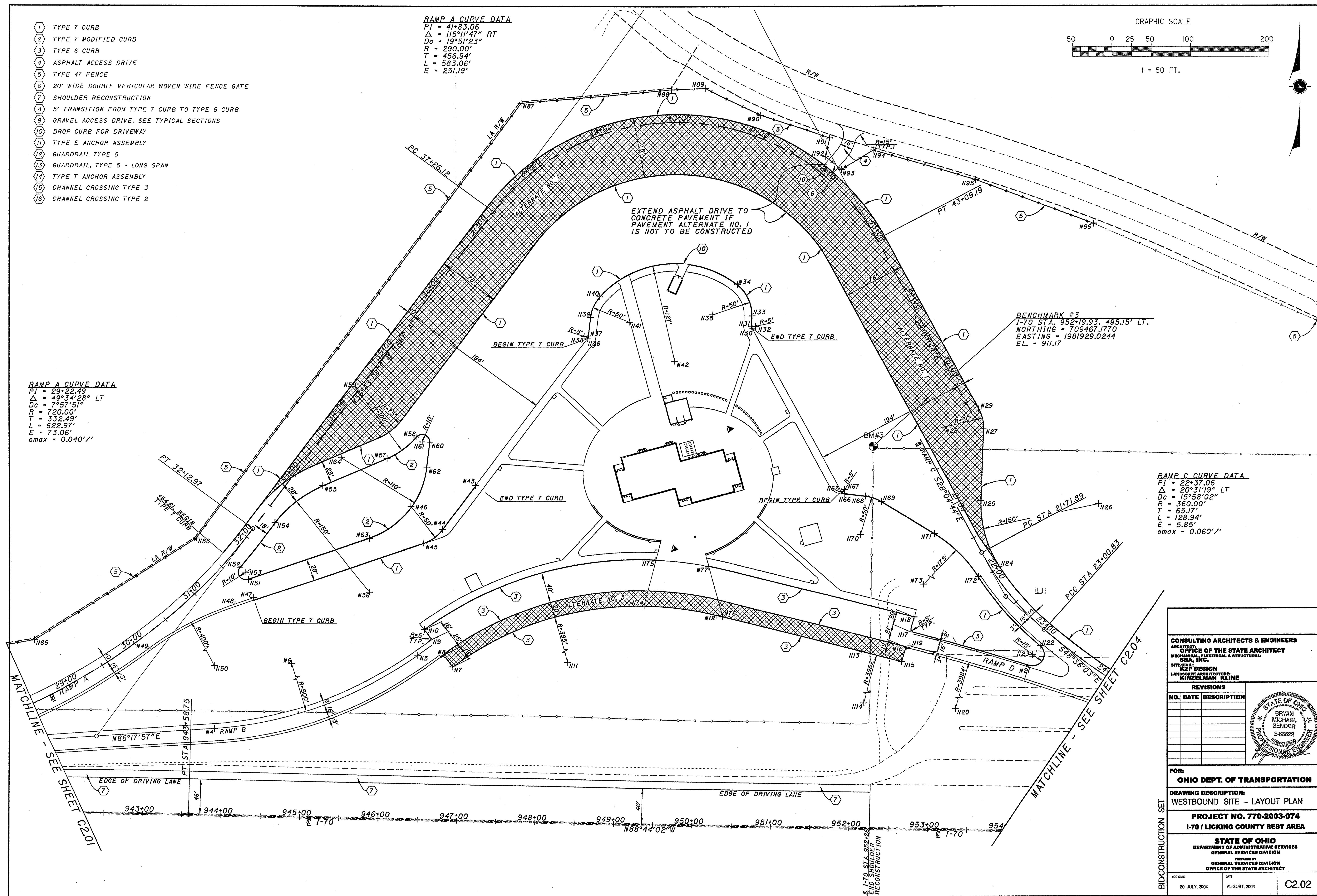
- 1 TYPE 7 CURB
- 2 TYPE 7 MODIFIED CURB
- 3 TYPE 6 CURB
- 4 ASPHALT ACCESS DRIVE
- 5 TYPE 47 FENCE
- 6 20' WIDE DOUBLE VEHICULAR WOVEN WIRE FENCE GATE
- 7 SHOULDER RECONSTRUCTION
- 8 5' TRANSITION FROM TYPE 7 CURB TO TYPE 6 CURB
- 9 GRAVEL ACCESS DRIVE, SEE TYPICAL SECTIONS
- 10 DROP CURB FOR DRIVEWAY
- 11 TYPE E ANCHOR ASSEMBLY
- 12 GUARDRAIL TYPE 5
- 13 GUARDRAIL, TYPE 5 - LONG SPAN
- 14 TYPE T ANCHOR ASSEMBLY
- 15 CHANNEL CROSSING TYPE 3
- 16 CHANNEL CROSSING TYPE 2

RAMP A CURVE DATA
 PI = 41+83.06
 Δ = 115°11'47" RT
 Dc = 19°51'23"
 R = 290.00'
 T = 456.94'
 L = 583.06'
 E = 251.19'



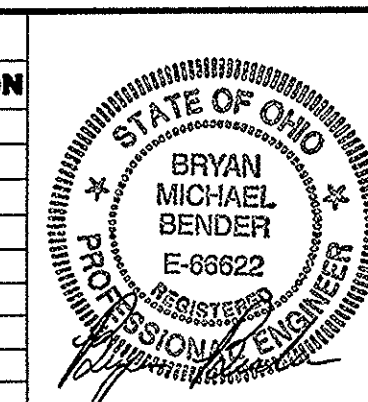
RAMP A CURVE DATA
 PI = 29+22.49
 Δ = 49°34'28" LT
 Dc = 7°57'51"
 R = 720.00'
 T = 332.49'
 L = 622.97'
 E = 73.06'
 emax = 0.040'/'

RAMP C CURVE DATA
 PI = 22+37.06
 Δ = 20°31'19" LT
 Dc = 15°58'02"
 R = 360.00'
 T = 65.17'
 L = 128.94'
 E = 5.85'
 emax = 0.060'/'



CONSULTING ARCHITECTS & ENGINEERS
 ARCHITECT: OFFICE OF THE STATE ARCHITECT
 MECHANICAL, ELECTRICAL & STRUCTURAL: GRA, INC.
 SITE/CIVIL: RZF DESIGN
 LANDSCAPE ARCHITECTURE: KINZELMAN KLINE

REVISIONS		
NO.	DATE	DESCRIPTION



FOR:
OHIO DEPT. OF TRANSPORTATION

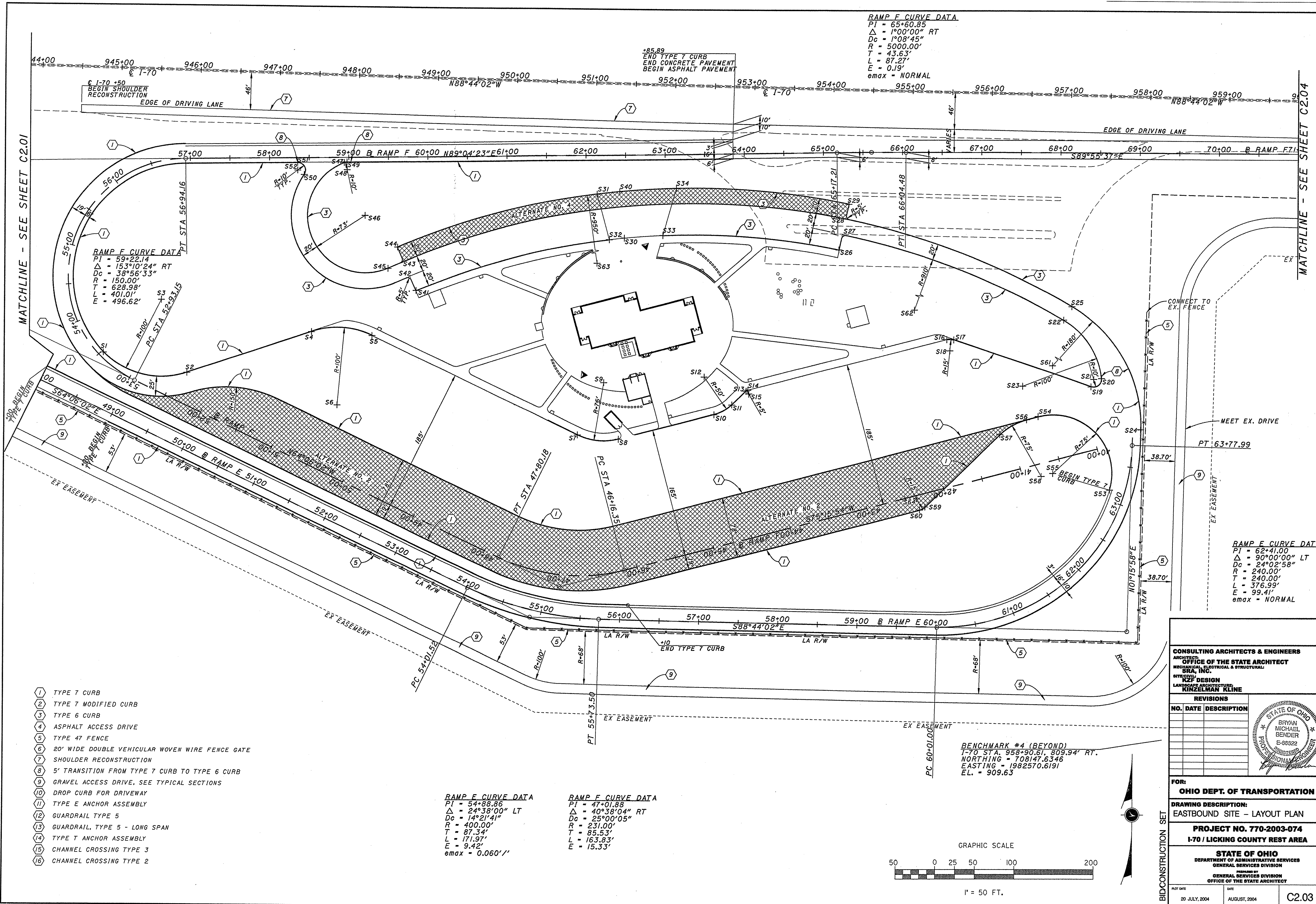
DRAWING DESCRIPTION:
 WESTBOUND SITE - LAYOUT PLAN

PROJECT NO. 770-2003-074
 I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
 DEPARTMENT OF ADMINISTRATIVE SERVICES
 GENERAL SERVICES DIVISION
 PREPARED BY:
 OFFICE OF THE STATE ARCHITECT

PLOT DATE	DATE	
20 JULY, 2004	AUGUST, 2004	C2.02

BID/CONSTRUCTION SET



RAMP F CURVE DATA
PI = 65+60.85
Δ = 1°00'00" RT
Dc = 1°08'45"
R = 5000.00'
T = 43.63'
L = 87.27'
E = 0.19'
emax = NORMAL

RAMP F CURVE DATA
PI = 59+22.14
Δ = 153°10'24" RT
Dc = 38°56'33"
R = 150.00'
T = 628.98'
L = 401.01'
E = 496.62'

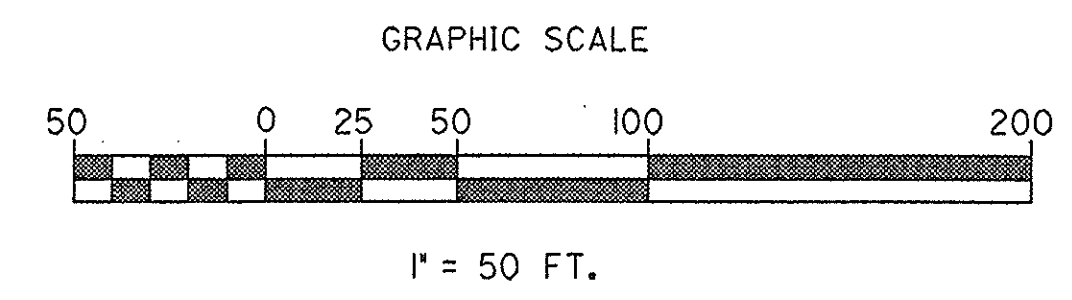
RAMP E CURVE DATA
PI = 62+41.00
Δ = 90°00'00" LT
Dc = 24°02'58"
R = 240.00'
T = 240.00'
L = 376.99'
E = 99.41'
emax = NORMAL

RAMP E CURVE DATA
PI = 54+88.86
Δ = 24°38'00" LT
Dc = 14°21'41"
R = 400.00'
T = 87.34'
L = 171.97'
E = 9.42'
emax = 0.060'/'

RAMP F CURVE DATA
PI = 47+01.88
Δ = 40°38'04" RT
Dc = 25°00'05"
R = 231.00'
T = 85.53'
L = 163.83'
E = 15.33'

BENCHMARK #4 (BEYOND)
I-70 STA. 958+90.61, 809.94' RT.
NORTHING = 708147.6346
EASTING = 1982570.6191
EL. = 909.63

- 1 TYPE 7 CURB
- 2 TYPE 7 MODIFIED CURB
- 3 TYPE 6 CURB
- 4 ASPHALT ACCESS DRIVE
- 5 TYPE 47 FENCE
- 6 20' WIDE DOUBLE VEHICULAR WOVEN WIRE FENCE GATE
- 7 SHOULDER RECONSTRUCTION
- 8 5' TRANSITION FROM TYPE 7 CURB TO TYPE 6 CURB
- 9 GRAVEL ACCESS DRIVE, SEE TYPICAL SECTIONS
- 10 DROP CURB FOR DRIVEWAY
- 11 TYPE E ANCHOR ASSEMBLY
- 12 GUARDRAIL TYPE 5
- 13 GUARDRAIL, TYPE 5 - LONG SPAN
- 14 TYPE T ANCHOR ASSEMBLY
- 15 CHANNEL CROSSING TYPE 3
- 16 CHANNEL CROSSING TYPE 2



CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL & STRUCTURAL:
SRA, INC.
SITES:
KZF DESIGN
LANDSCAPE ARCHITECTURE:
KINZELMAN KLINE

REVISIONS	
NO.	DATE DESCRIPTION

FOR:
OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
EASTBOUND SITE - LAYOUT PLAN

PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY:
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLAT DATE: 20 JULY, 2004

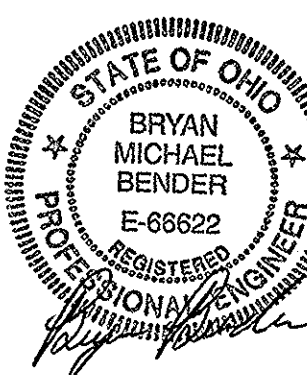
DATE: AUGUST, 2004

C2.03



BENCHMARK #5
I-70 STA. 969+01.05, 119.72' RT.
NORTHING = 708815.3159
EASTING = 1983596.1460
EL. = 919.93

- 1 TYPE 7 CURB
- 2 TYPE 7 MODIFIED CURB
- 3 TYPE 6 CURB
- 4 ASPHALT ACCESS DRIVE
- 5 TYPE 47 FENCE
- 6 20" WIDE DOUBLE VEHICULAR WOVEN WIRE FENCE GATE
- 7 SHOULDER RECONSTRUCTION
- 8 5' TRANSITION FROM TYPE 7 CURB TO TYPE 6 CURB
- 9 GRAVEL ACCESS DRIVE, SEE TYPICAL SECTIONS
- 10 DROP CURB FOR DRIVEWAY
- 11 TYPE E ANCHOR ASSEMBLY
- 12 GUARDRAIL TYPE 5
- 13 GUARDRAIL, TYPE 5 - LONG SPAN
- 14 TYPE T ANCHOR ASSEMBLY
- 15 CHANNEL CROSSING TYPE 3
- 16 CHANNEL CROSSING TYPE 2
- 17 NOT USED
- 18 ITEM 411 - 8" AGGREGATE STABILIZED CRUSHED AGGREGATE OVER EXISTING DRIVE CONTINUOUS TO CHRISTLAND HILL ROAD. SEE TYPICAL SECTIONS.

CONSULTING ARCHITECTS & ENGINEERS ARCHITECT OFFICE OF THE STATE ARCHITECT MECHANICAL, ELECTRICAL & STRUCTURAL SRA, INC. SITE/STUDY K&P DESIGN LANDSCAPE ARCHITECTURE KINZELMAN KLINE																																			
REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">NO.</th> <th style="width: 20%;">DATE</th> <th style="width: 65%;">DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>			NO.	DATE	DESCRIPTION																														
NO.	DATE	DESCRIPTION																																	
FOR: OHIO DEPT. OF TRANSPORTATION																																			
DRAWING DESCRIPTION: EAST RAMPS - LAYOUT PLAN																																			
PROJECT NO. 770-2003-074 I-70 / LICKING COUNTY REST AREA																																			
STATE OF OHIO DEPARTMENT OF ADMINISTRATIVE SERVICES GENERAL SERVICES DIVISION PREPARED BY GENERAL SERVICES DIVISION OFFICE OF THE STATE ARCHITECT																																			
POST DATE 20 JULY, 2004	DATE AUGUST, 2004	C.2.04																																	

BID/CONSTRUCTION SET

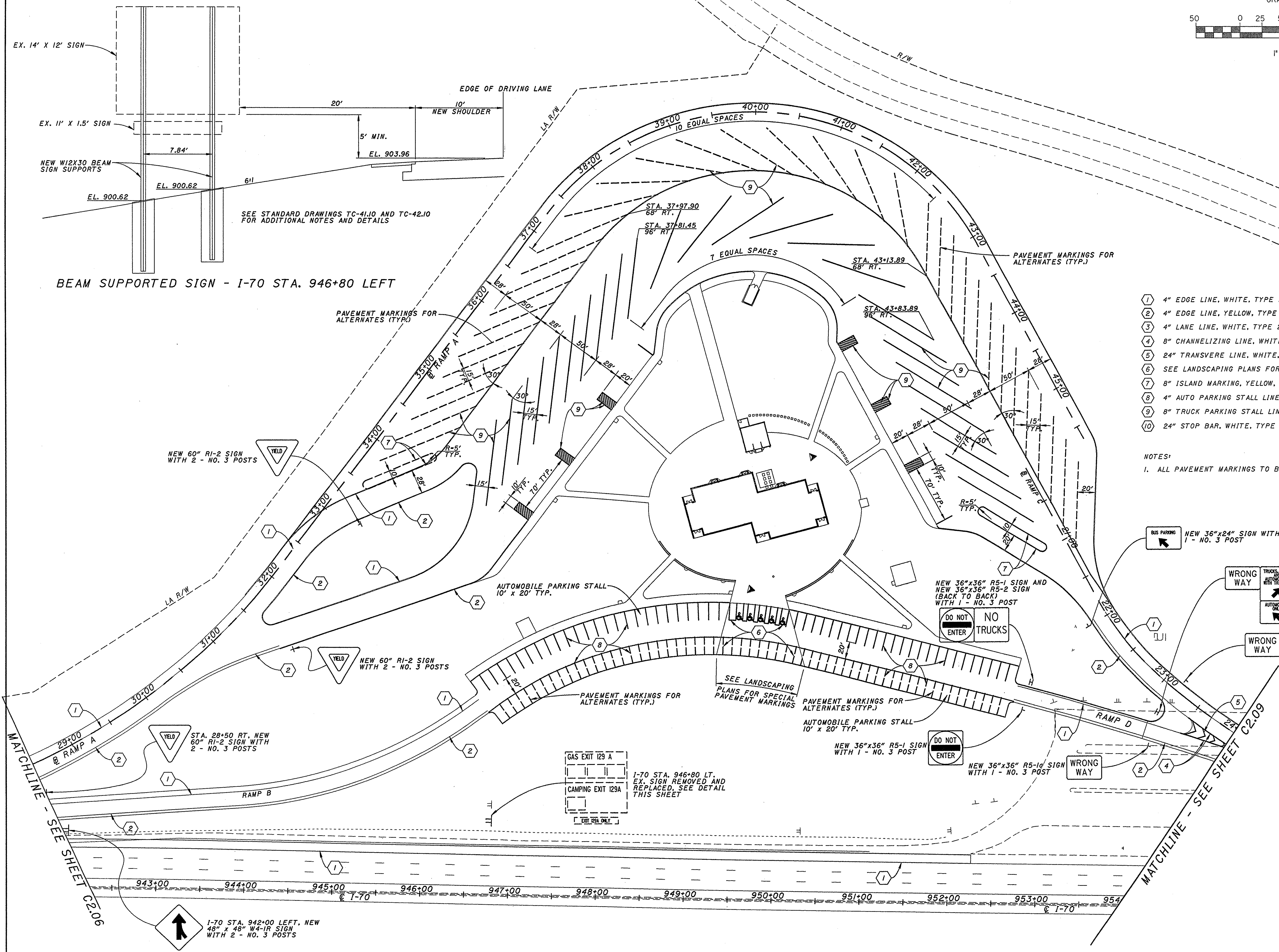
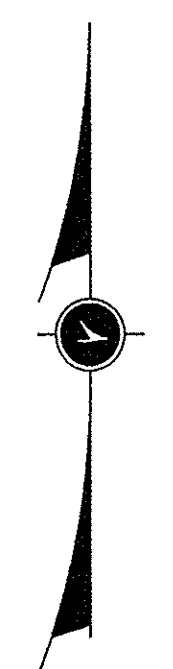
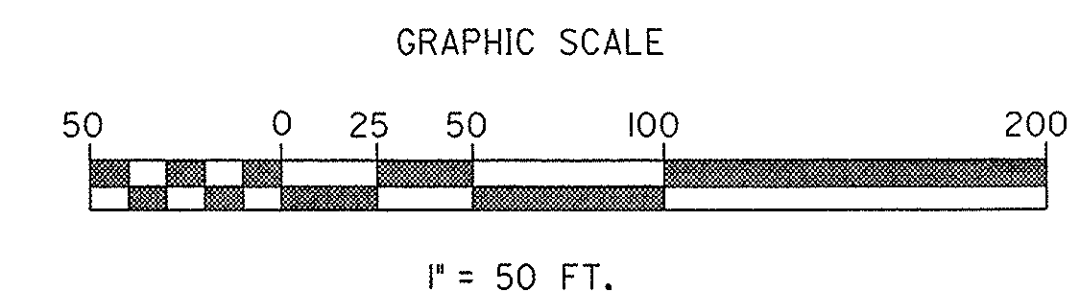
CENTERLINE AND BASELINE COORDINATES				
	Point	Station	Easting	Northing
Centerline I-70	POT	910+00	1977721.9113	708648.2768
	PI	933+33.18	1980026.2591	709013.9597
	PC	923+02.08	1979007.8992	708852.3535
	PT	943+58.75	1981057.1104	708991.1764
	RAD PT		1980803.9087	697534.8141
	POT	973+76.42	1984074.0429	708924.4880
Ramp A	POT	9+50.00	1978979.2370	708890.4420
	PI	16+45.88	1979664.0943	709012.6692
	PC	10+00.01	1979028.4655	709012.6692
	PT	22+90.00	1980308.4202	709054.3468
	RAD PT		1981051.7693	697562.3531
	PI	29+22.49	1980539.5854	709095.1739
	PC	25+00.00	1980507.7069	709073.7117
	PT	32+12.97	1981138.4153	709361.6725
	RAD PT		1980561.3215	709792.2102
	PI	41+83.06	1981718.4964	710139.2146
	PC	37+26.12	1981445.2631	709772.9720
	PT	43+09.19	1981933.5705	709736.0605
	RAD PT		1981677.7036	709599.5809
	POT	45+65.39	1982054.1647	709510.0081
Ramp C	POT	20+06.18	1981988.9520	709475.2184
	PI	22+37.06	1982097.6221	709271.5175
	PC	21+71.89	1982066.9473	709329.0170
	PCC	23+00.83	1982146.5075	709228.4208
	RAD PT		1982384.5752	709498.4646
	PI	25+06.14	1982300.5136	709092.6508
	PCC	23+00.83	1982146.5076	709228.4208
	PCC	27+00.83	1982502.9855	709058.5246
	RAD PT		1982622.8430	709768.5087
	PI	29+78.06	1982776.3436	709012.4431
	PCC	27+00.83	1982502.9852	709058.5247
	PT	32+54.33	1983053.5111	709008.3171
	RAD PT		1983137.9203	712825.3844
	POT	36+50.00	1983449.0862	706997.5741
Ramp E	POT	30+00.00	1979359.9216	708839.7860
	PI	32+33.05	1979591.2191	708868.2991
	PC	30+50.00	1979409.5470	708845.9035
	PCC	34+16.06	1979773.5161	708884.8566
	RAD PT		1980805.7860	697519.6393
	PI	36+79.59	1980035.9633	708908.6939
	PCC	34+16.06	1979773.5152	708884.8565
	PCC	39+41.64	1980298.3561	708884.2554
	RAD PT		1980032.6682	706031.6014
	PI	41+77.64	1980533.3377	708862.3999
	PCC	39+41.64	1980298.3559	708894.2554
	PT	44+08.55	1980745.6330	708759.2869
	RAD PT		1980177.7995	707589.8574
	PI	54+88.86	1981717.4352	708287.4141
	PC	54+01.52	1981638.8707	708325.5622
	PT	55+73.50	1981804.7503	708285.4843
	RAD PT		1981813.5897	706685.3866
	PI	62+41.00	1982472.0874	708270.7352
	PC	60+01.00	1982232.1460	708276.0382
	PT	63+77.99	1982477.3905	708510.6766
	RAD PT		1982237.4491	708515.9796
	POT	63+98.35	1982477.8405	708531.0368
Ramp F	POT	40+00.00	1982433.3596	708505.7141
	PI	47+01.88	1981754.5817	708327.1927
	PC	46+16.35	1981837.2774	708349.9466
	PT	47+80.18	1981677.6236	708364.5511
	RAD PT		1981778.5233	708572.3497
	PI	59+22.14	1980650.3527	708863.3527
	PC	52+83.15	1981216.1742	708568.6147
	PT	56+84.16	1981279.2685	708873.5282
	RAD PT		1981281.6934	708723.5488
	PI	65+80.85	1982145.8446	708887.5516
	PC	65+17.21	1982102.2161	708886.8456
	PT	66+04.48	1982189.4788	708887.4960
	RAD PT		1982183.1121	703887.5001
	POT	81+61.68	1983746.6739	708885.5132

WESTBOUND SITE LAYOUT COORDINATES		
Callout	Easting	Northing
N1	1980857.9221	709115.3431
N2	1980862.5812	709096.2047
N3	1980861.9357	709106.1839
N4	1981089.6173	709104.8778
N5	1981348.5867	709197.4147
N6	1981057.3427	709603.8351
N7	1981393.1004	709182.5769
N8	1981381.6801	709197.7555
N9	1981366.6455	709217.7379
N10	1981357.0270	709230.5218
N11	1981630.5833	708866.9397
N12	1981729.7068	709249.3001
N13	1981914.6310	709201.3647
N14	1980920.4718	705366.1214
N15	1981965.1008	709187.9265
N16	1981970.1112	709206.2572
N17	1981975.6481	709226.5141
N18	1981960.9205	709245.8034
N19	1981975.5959	709207.8343
N20	1980920.4718	705366.1214
N21	1982127.3202	709181.8154
N22	1982141.6075	709207.5042
N23	1982131.8436	709196.1171
N24	1982088.9365	709311.1207
N25	1982065.7231	709396.4392
N26	1982215.6388	709391.4109
N27	1982068.8446	709489.5044
N28	1982016.8727	709491.1805
N29	1982062.9877	709514.7149
N30	1981774.6688	709621.7575
N31	1981774.0831	709624.2785
N32	1981779.0803	709624.1109
N33	1981774.5202	709637.3095
N34	1981755.9722	709677.8770
N35	1981724.5483	709638.9856
N36	1981564.6622	709608.5864
N37	1981565.6202	709610.9907
N38	1981560.6546	709611.5762
N39	1981568.5246	709635.6226
N40	1981560.5346	709662.6731
N41	1981618.1806	709629.7675
N42	1981676.1554	709579.0929
N43	1981422.3400	709417.8188
N44	1981379.9764	709381.0349
N45	1981356.1976	709343.6640
N46	1981339.9005	709390.9335
N47	1981136.8694	709271.9090
N48	1981115.6506	709263.9039
N49	1981004.9338	709204.8248
N50	1981246.0275	708885.7480
N51	1981132.7413	709296.2403
N52	1981121.8861	709312.1985
N53	1981129.4819	709305.6942
N54	1981166.6154	709369.3700
N55	1981227.5710	709417.4673
N56	1981268.6433	709279.6747
N57	1981309.3395	709452.6379
N58	1981346.5277	709480.3457
N59	1981269.8187	709544.4986
N60	1981364.1298	709472.7593
N61	1981354.1986	709473.9303
N62	1981360.3278	709440.5147
N63	1981266.9382	709349.4028
N64	1981251.0846	709453.3957
N65	1981888.0794	709409.1705
N66	1981891.8884	709406.5603
N67	1981892.4909	709411.5239
N68	1981918.9858	709403.2711
N69	1981939.3982	709396.0743
N70	1981912.9607	709353.6354
N71	1982006.9236	709354.0091
N72	1982082.9158	709298.0245
N73	1981914.3924	709205.4730
N74	1981636.9327	709261.8886
N75	1981652.0526	709321.4329
N76	1981737.1471	709247.3715
N77	1981719.4776	709313.1714
N78	1982357.2196	709082.0347
N79	1979325.4284	708023.5409
N80	1979936.7302	709129.5903
N81	1980461.6020	709164.9140
N82	1980479.7395	709089.9954
N83	1980575.9126	709106.0520
N84	1980619.1256	709175.5153
N85	1980660.1905	709216.9399
N86	1981066.4593	709349.6071
N87	1981480.0145	709814.0372
N88	1981671.8259	709830.6447
N89	1981714.7156	709832.3224
N90	1981785.5125	709898.6347
N91	1981873.1532	709868.8948
N92	1981888.1527	709844.4185
N93	1981888.1547	709827.5747
N94	1981928.6853	709853.1036
N95	1982059.2252	709813.6258
N96	1982208.6502	709755.8942
N97	1980509.9926	708091.3896

EASTBOUND SITE LAYOUT COORDINATES		
Callout	Easting	Northing
S1	1981176.7765	708824.9169
S2	1981282.3590	708598.9163
S3	1981249.6355	708693.4109
S4	1981439.4285	708653.3076
S5	1981515.8285	708643.7689
S6	1981472.1490	708558.8128
S7	1981776.3984	708522.2454
S8	1981928.2339	708517.1790
S9	1981809.1579	708589.7125
S10	1981948.8471	708548.8999
S11	1981971.3211	708561.7370
S12	1981936.1298	708597.2555
S13	1981989.2671	708579.5176
S14	1981991.5145	708580.8014
S15	1981992.7862	708575.9658
S16	1982242.4472	708646.7957
S17	1982251.2064	708646.4509
S18	1982246.2624	708632.2890
S19	1982424.8311	708585.8370
S20	1982438.0778	708595.2702
S21	1982428.1271	708595.2782
S22	1982389.7195	708672.2789
S23	1982338.5710	708586.3608
S24	1982487.8380	708530.8158
S25	1982399.9492	708689.4657
S26	1982105.3788	708761.7016
S27	1982109.4755	708781.2917
S28	1982113.5692	708800.8677
S29	1982117.6603	708820.4312
S30	1981834.1103	708775.7456
S31	1981799.3766	708932.0787
S32	1981815.0799	708773.6007
S33	1981882.8105	708779.3578
S34	1981899.4799	708840.0005
S35		
S36		
S37		
S38		
S39		
S40		
S41	1981828.0322	708835.4370
S42	1981571.1598	708707.2783
S43	1981583.2057	708725.6978
S44	1981555.2981	708744.0096
S45	1981547.3730	708762.3618
S46	1981535.4320	708735.3151
S47	1981506.1636	708802.1908
S48	1981479.4636	708870.1328
S49	1981483.1211	708860.8257
S50	1981482.9594	708870.8244
S51	1981429.0810	708854.2223
S52	1981420.8308	708869.8158
S53	1981420.7925	708859.8171
S54	1982449.3234	708453.1286
S55	1982348.3443	708546.9916
S56	1982377.4203	708474.4581
S57	1982343.8376	708543.1764
S58	1982310.1266	708523.9207
S59	1982362.9136	708470.6429
S60	1982216.4396	708431.0267
S61	1982209.6974	708427.2456
S62	1982307.8819	708534.7931
S63	1981924.2682	707890.3239
S64	1981924.2682	707890.3239
S65	1982205.8822	708441.7523
S66	1979367.8128	708775.7721
S67	1979420.1561	708759.8425
S68	1979862.7836	708796.7189
S69	1980466.9056	708766.6289
S70	1980487.6049	708821.3101
S71	1980520.1256	708812.1538
S72	1980528.1635	708763.5778
S73	1980724.9230	708753.7797
S74		
S75		
S76		
S77		

BID/CONSTRUCTION SET

CONSULTING ARCHITECTS & ENGINEERS ARCHITECT OFFICE OF THE STATE ARCHITECT MECHANICAL, ELECTRICAL & STRUCTURAL SRA, INC. SITE DESIGN LANDSCAPE ARCHITECTURE KINZELMAN KLINE		
---	--	--



- ① 4" EDGE LINE, WHITE, TYPE 2
- ② 4" EDGE LINE, YELLOW, TYPE 2
- ③ 4" LANE LINE, WHITE, TYPE 2
- ④ 8" CHANNELIZING LINE, WHITE, TYPE 2
- ⑤ 24" TRANSVERSE LINE, WHITE, TYPE 2
- ⑥ SEE LANDSCAPING PLANS FOR SPECIAL PAVEMENT MARKINGS
- ⑦ 8" ISLAND MARKING, YELLOW, TYPE 2
- ⑧ 4" AUTO PARKING STALL LINES, YELLOW, TYPE 2
- ⑨ 8" TRUCK PARKING STALL LINES, YELLOW, TYPE 2
- ⑩ 24" STOP BAR, WHITE, TYPE 2

NOTES:
1. ALL PAVEMENT MARKINGS TO BE PER ODOT CMS ITEM 641 AND ITEM 642.

CONSULTING ARCHITECTS & ENGINEERS
OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL & STRUCTURAL
SRA, INC.
KZF DESIGN
LANDSCAPE ARCHITECTURE
KINZELMAN KLINE

REVISIONS		
NO.	DATE	DESCRIPTION

FOR:
OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
WESTBOUND SITE - PAVEMENT STRIPING

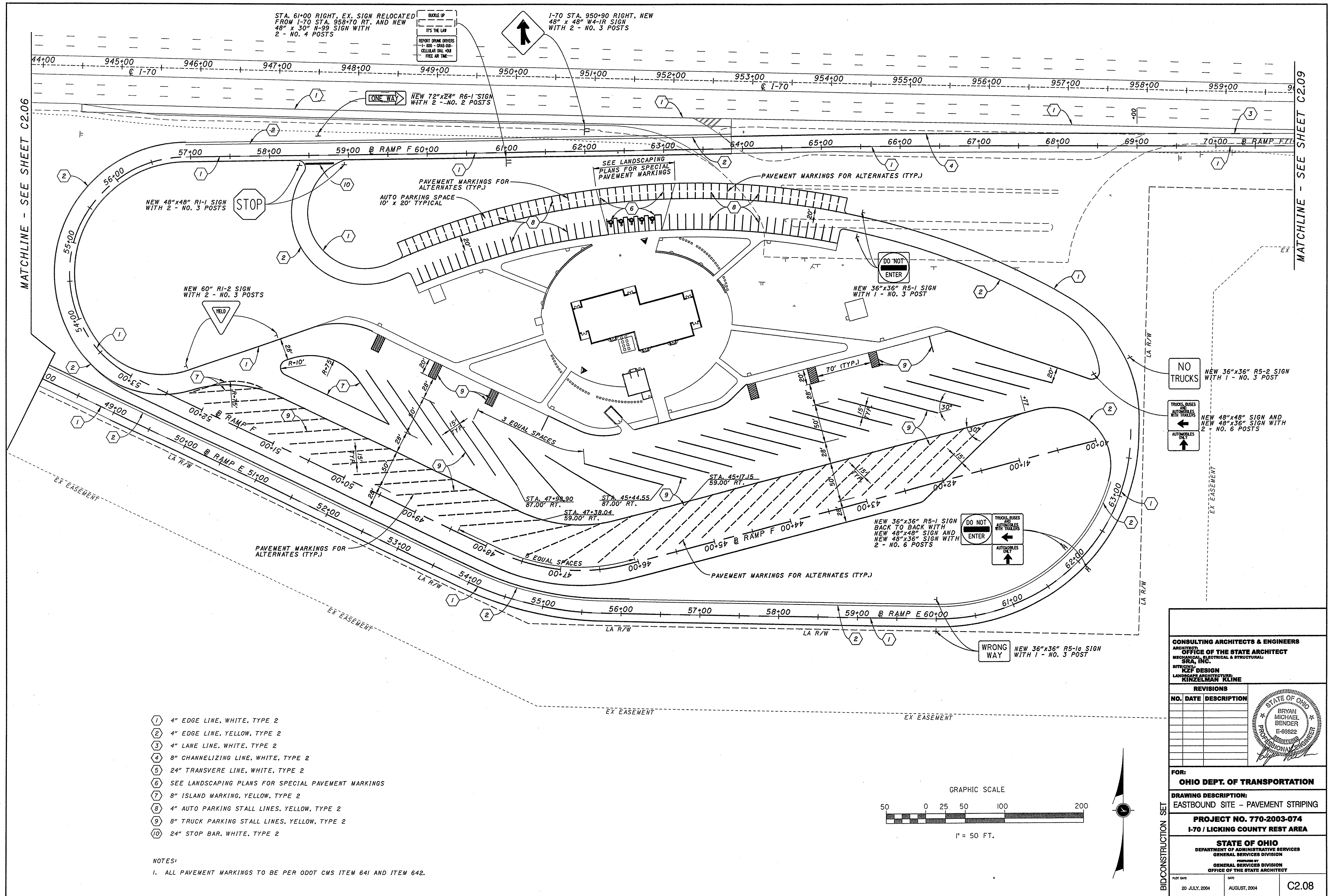
PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

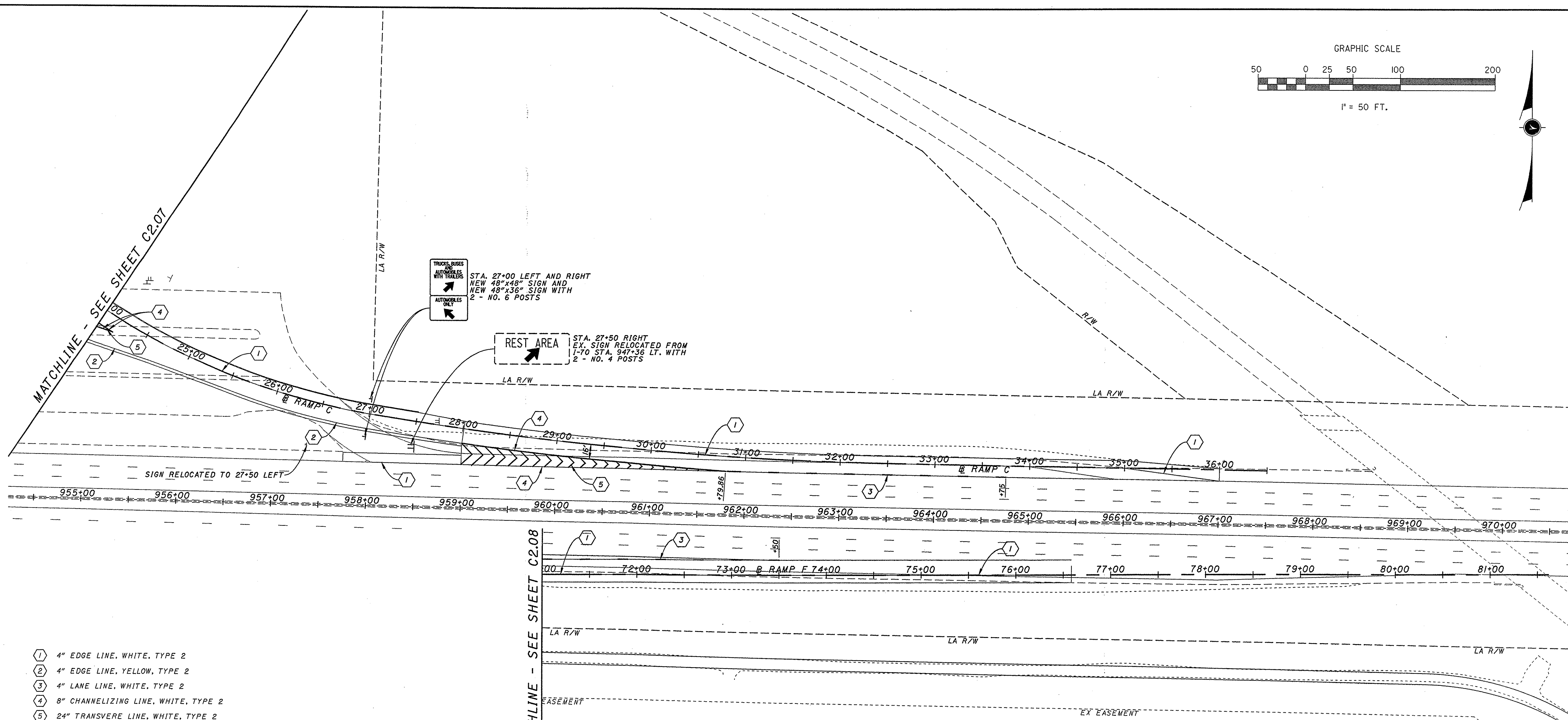
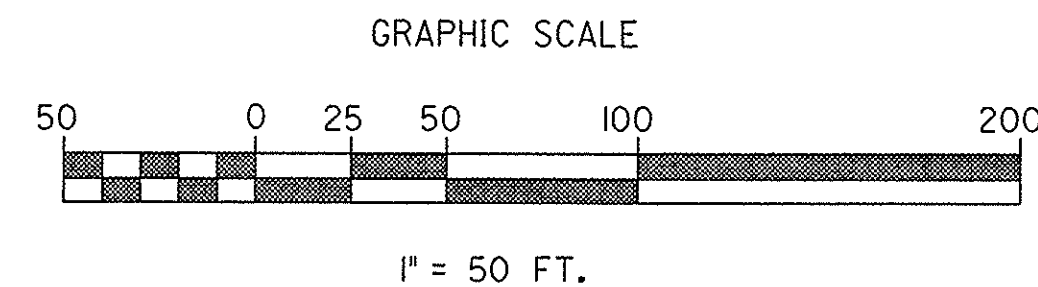
STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

DATE 20 JULY, 2004	DATE AUGUST, 2004	C2.07
-----------------------	----------------------	-------

STATE OF OHIO
BRYAN
MICHAEL
BENDER
E-66822
Professional Engineer

BEAM SUPPORTED SIGN - I-70 STA. 946+80 LEFT





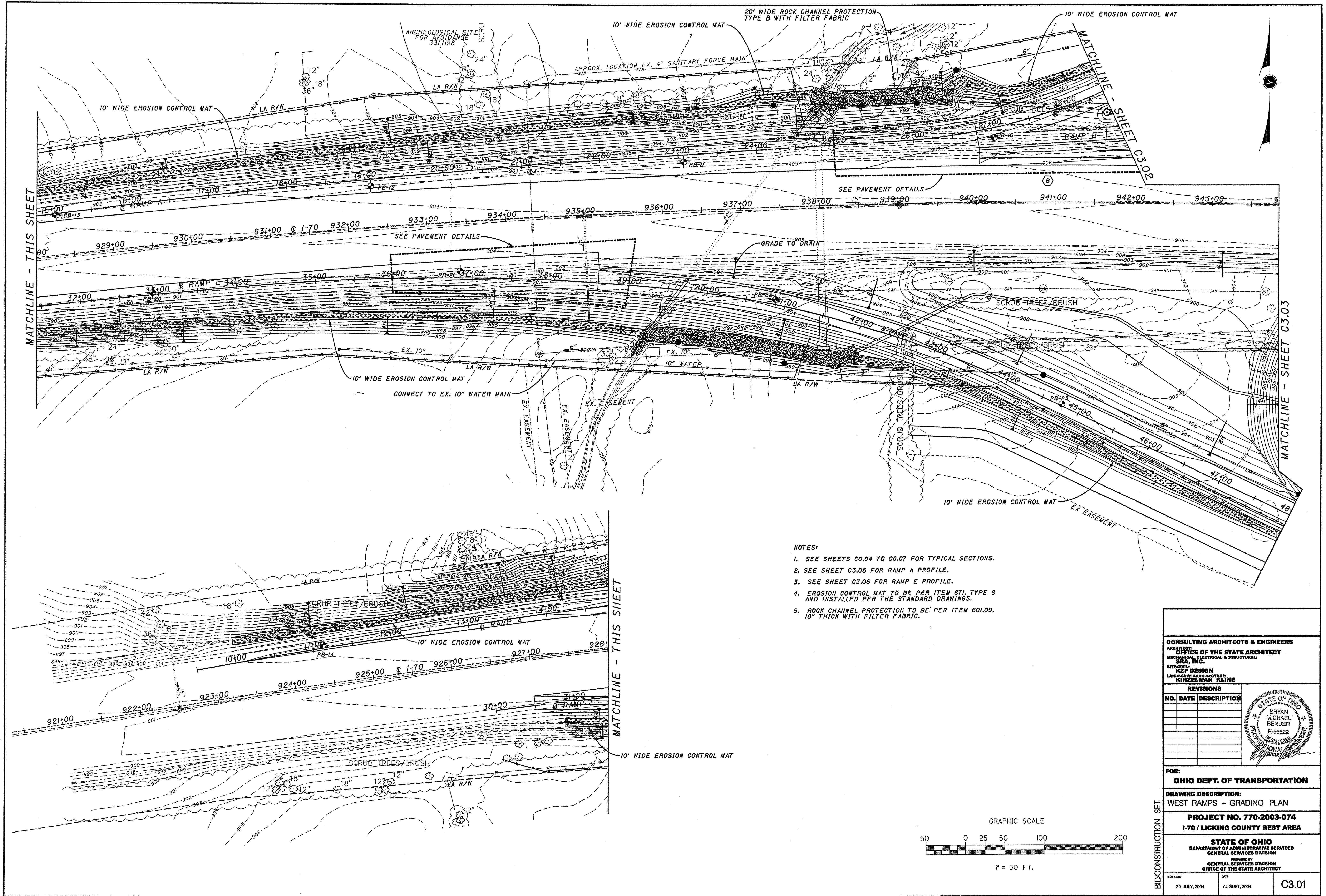
- ① 4" EDGE LINE, WHITE, TYPE 2
- ② 4" EDGE LINE, YELLOW, TYPE 2
- ③ 4" LANE LINE, WHITE, TYPE 2
- ④ 8" CHANNELIZING LINE, WHITE, TYPE 2
- ⑤ 24" TRANSVERSE LINE, WHITE, TYPE 2
- ⑥ SEE LANDSCAPING PLANS FOR SPECIAL PAVEMENT MARKINGS
- ⑦ 8" ISLAND MARKING, YELLOW, TYPE 2
- ⑧ 4" AUTO PARKING STALL LINES, YELLOW, TYPE 2
- ⑨ 8" TRUCK PARKING STALL LINES, YELLOW, TYPE 2
- ⑩ 24" STOP BAR, WHITE, TYPE 2

NOTES:

- ALL PAVEMENT MARKINGS TO BE PER ODOT CMS ITEM 641 AND ITEM 642.

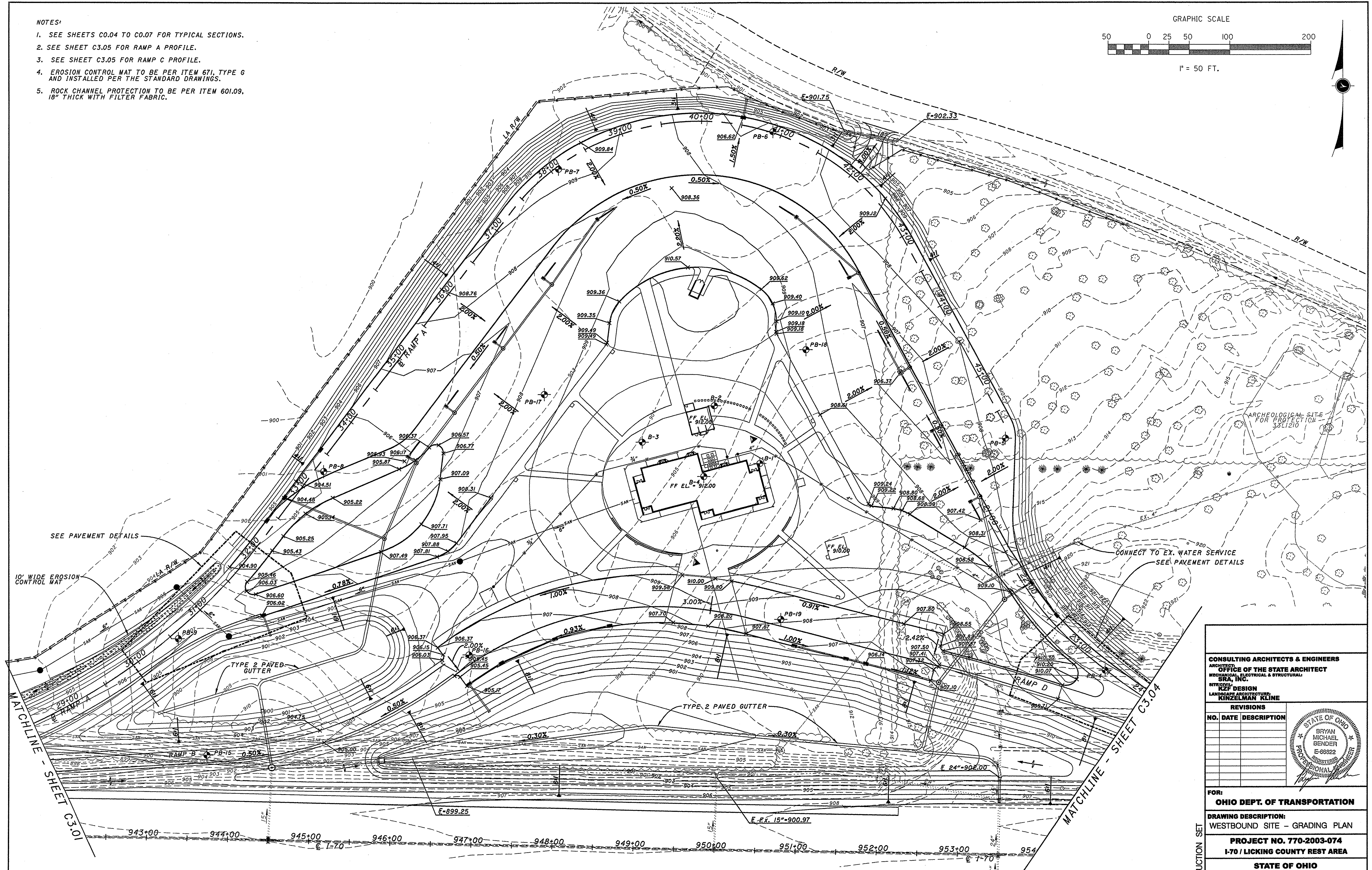
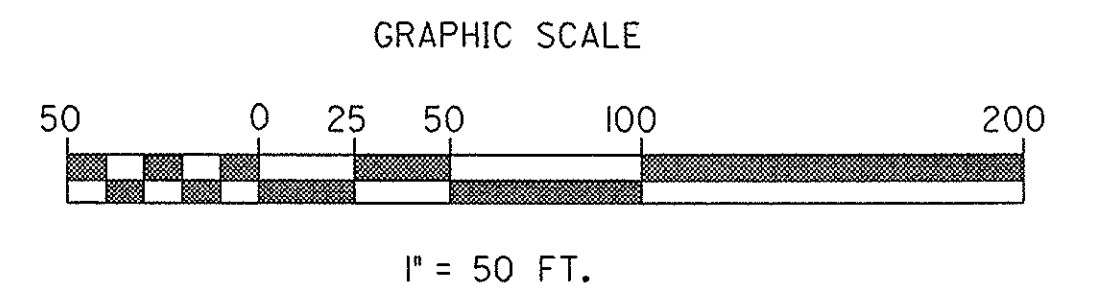
CONSULTING ARCHITECTS & ENGINEERS ARCHITECT OFFICE OF THE STATE ARCHITECT MECHANICAL, ELECTRICAL & STRUCTURAL SRA, INC. SITE/CITY KZF DESIGN LANDSCAPE ARCHITECTURE KINZELMAN KLINE																				
REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>			NO.	DATE	DESCRIPTION															
NO.	DATE		DESCRIPTION																	
FOR: OHIO DEPT. OF TRANSPORTATION DRAWING DESCRIPTION: EAST RAMPS - PAVEMENT STRIPING PROJECT NO. 770-2003-074 I-70 / LICKING COUNTY REST AREA																				
STATE OF OHIO DEPARTMENT OF ADMINISTRATIVE SERVICES GENERAL SERVICES DIVISION PREPARED BY GENERAL SERVICES DIVISION OFFICE OF THE STATE ARCHITECT PLOT DATE: 20 JULY, 2004 DATE: AUGUST, 2004 C2.09																				

BID/CONSTRUCTION SET



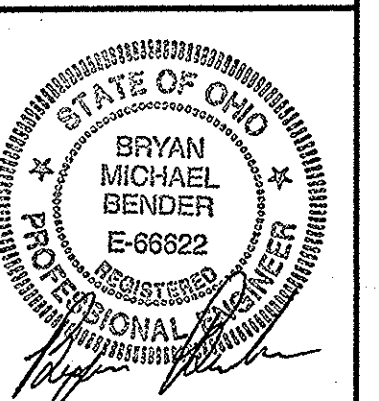
CONSULTING ARCHITECTS & ENGINEERS ARCHITECT OFFICE OF THE STATE ARCHITECT MECHANICAL, ELECTRICAL & STRUCTURAL SRA, INC. SITEWORK KZF DESIGN LANDSCAPE ARCHITECTURE KINZELMAN KLINE																			
REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>			NO.	DATE	DESCRIPTION														
NO.	DATE	DESCRIPTION																	
FOR: OHIO DEPT. OF TRANSPORTATION																			
DRAWING DESCRIPTION: WEST RAMPS - GRADING PLAN																			
PROJECT NO. 770-2003-074 I-70 / LICKING COUNTY REST AREA																			
STATE OF OHIO DEPARTMENT OF ADMINISTRATIVE SERVICES GENERAL SERVICES DIVISION PREPARED BY OFFICE OF THE STATE ARCHITECT																			
PLOT DATE 20 JULY, 2004	DATE AUGUST, 2004	C3.01																	

- NOTES:
1. SEE SHEETS C0.04 TO C0.07 FOR TYPICAL SECTIONS.
 2. SEE SHEET C3.05 FOR RAMP A PROFILE.
 3. SEE SHEET C3.05 FOR RAMP C PROFILE.
 4. EROSION CONTROL MAT TO BE PER ITEM 671, TYPE G AND INSTALLED PER THE STANDARD DRAWINGS.
 5. ROCK CHANNEL PROTECTION TO BE PER ITEM 601.09, 18" THICK WITH FILTER FABRIC.



CONSULTING ARCHITECTS & ENGINEERS
OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL & STRUCTURAL
SRA, INC.
SITING: KZF DESIGN
LANDSCAPE ARCHITECTURE
KINZELMAN KLINE

REVISIONS	
NO.	DATE DESCRIPTION



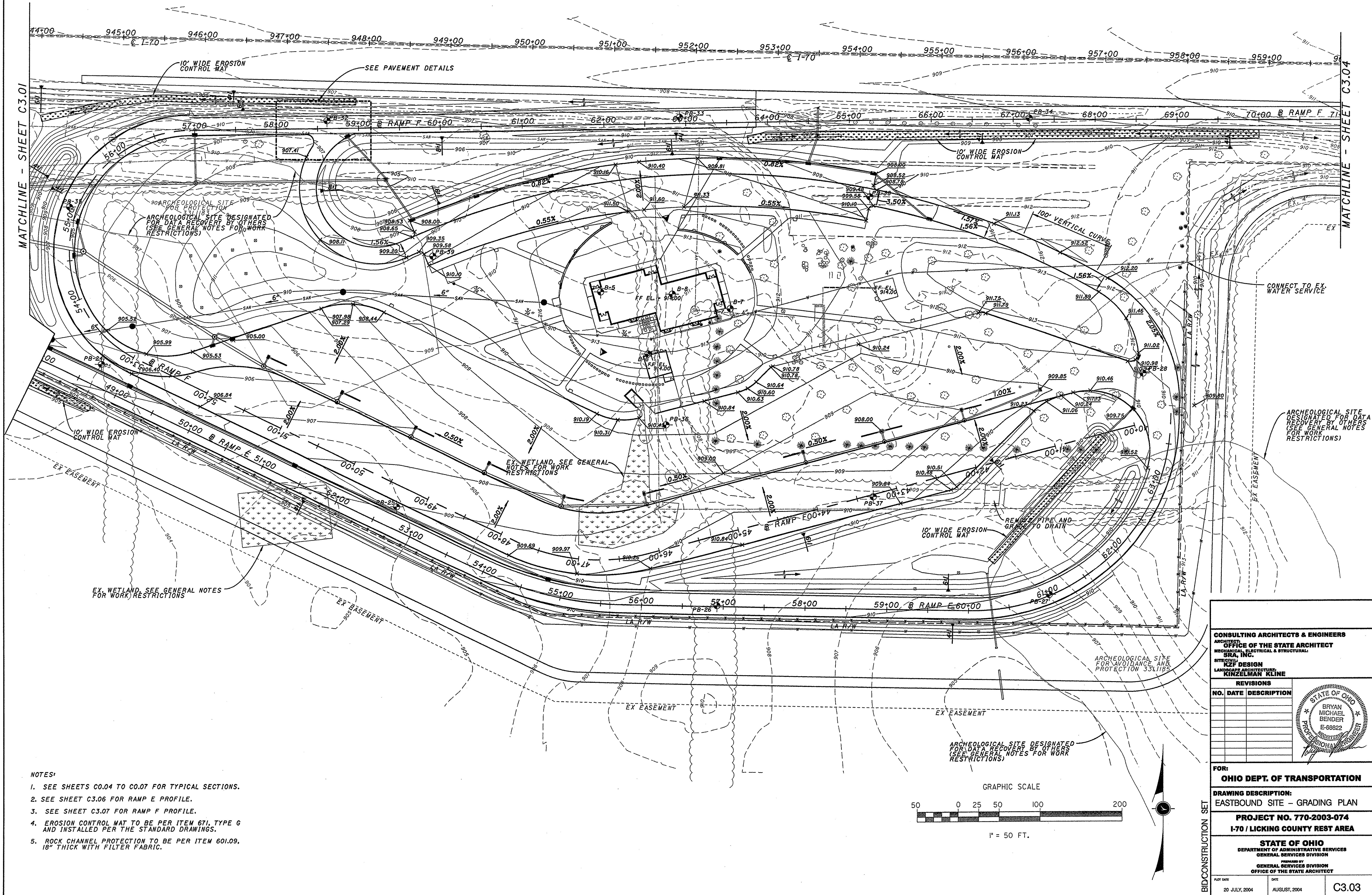
FOR:
OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
WESTBOUND SITE - GRADING PLAN

PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

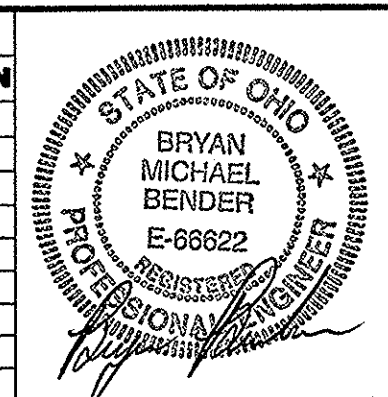
DATE: 20 JULY, 2004
DATE: AUGUST, 2004
C3.02



- NOTES:
1. SEE SHEETS C0.04 TO C0.07 FOR TYPICAL SECTIONS.
 2. SEE SHEET C3.06 FOR RAMP E PROFILE.
 3. SEE SHEET C3.07 FOR RAMP F PROFILE.
 4. EROSION CONTROL MAT TO BE PER ITEM 671, TYPE G AND INSTALLED PER THE STANDARD DRAWINGS.
 5. ROCK CHANNEL PROTECTION TO BE PER ITEM 601.09, 18" THICK WITH FILTER FABRIC.

CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT
OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL & STRUCTURAL
SRA, INC.
SITE
LANDSCAPE ARCHITECTURE
KINZELMAN KLINE

REVISIONS		
NO.	DATE	DESCRIPTION

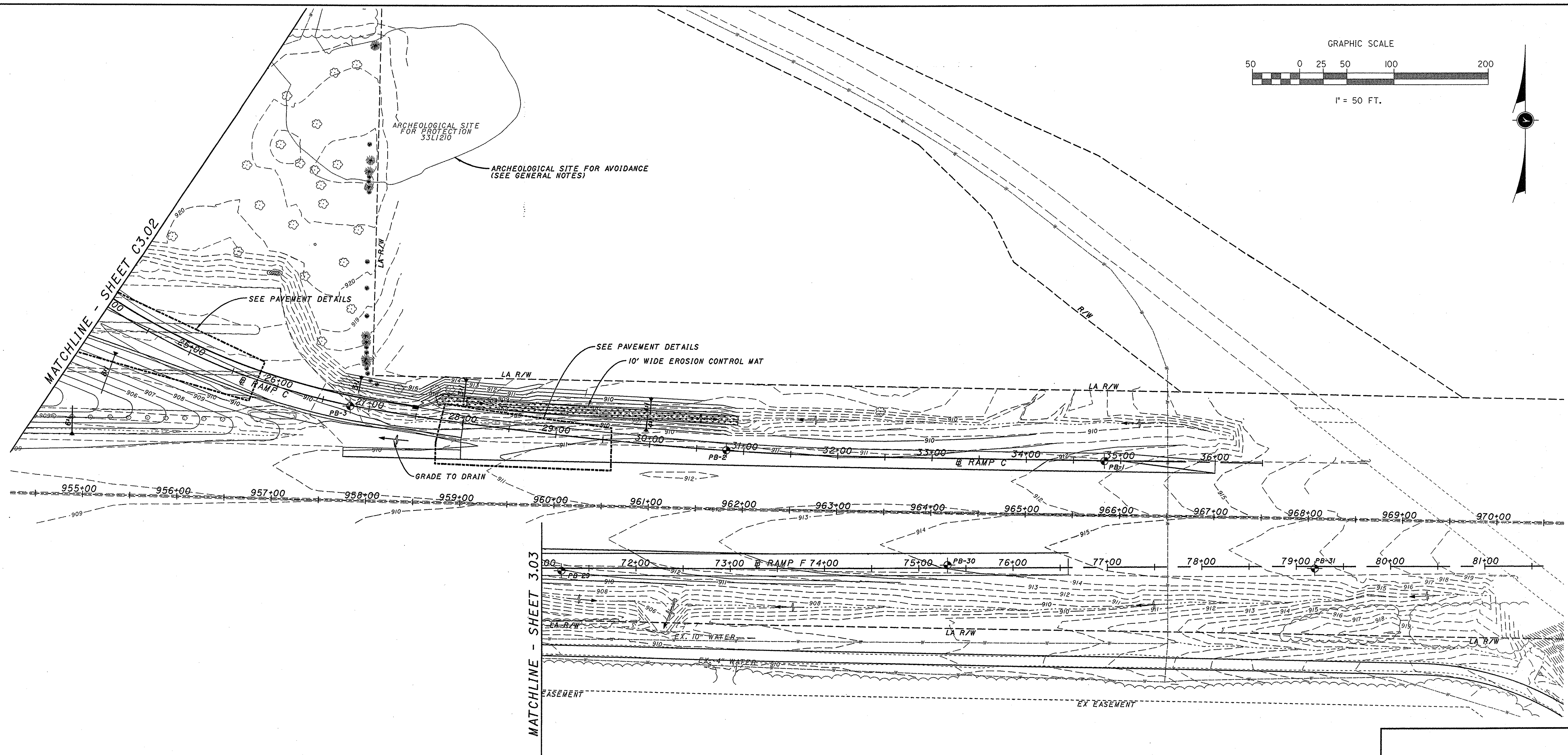
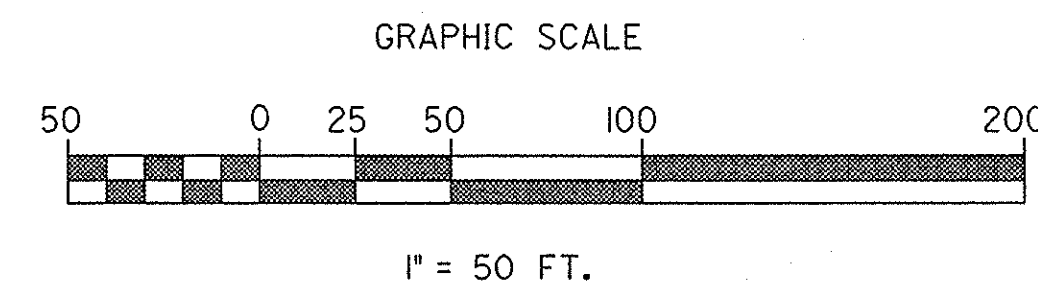


FOR:
OHIO DEPT. OF TRANSPORTATION
DRAWING DESCRIPTION:
EASTBOUND SITE - GRADING PLAN

PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

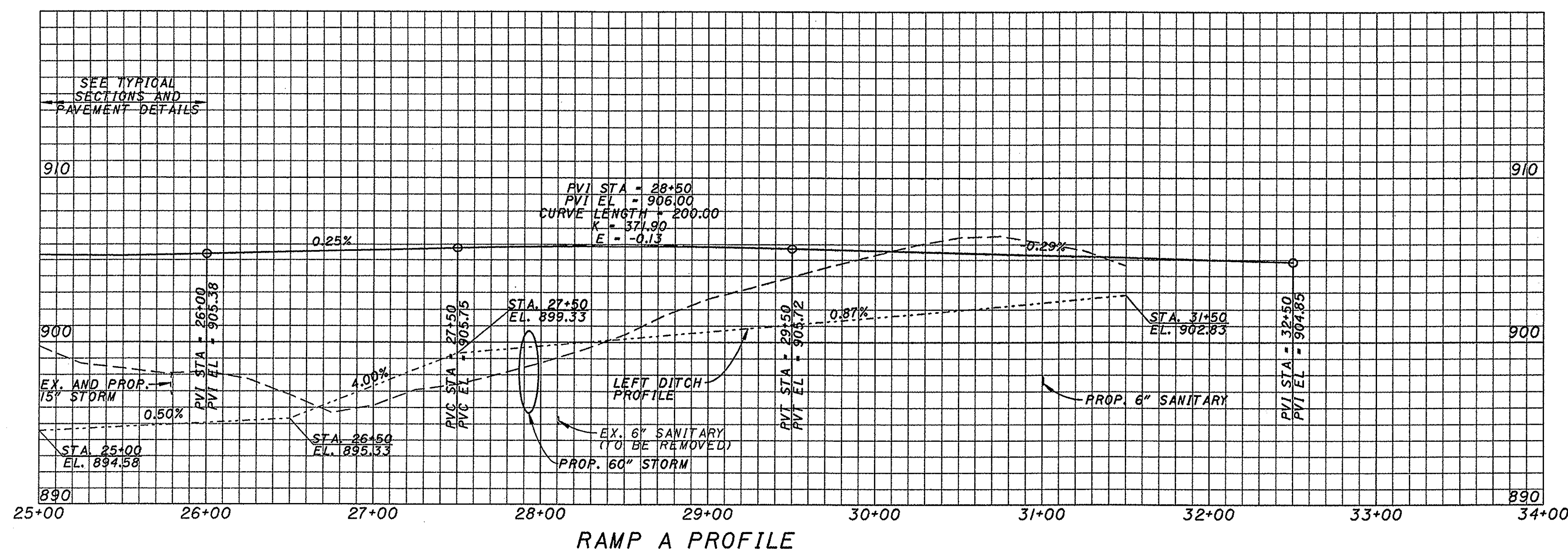
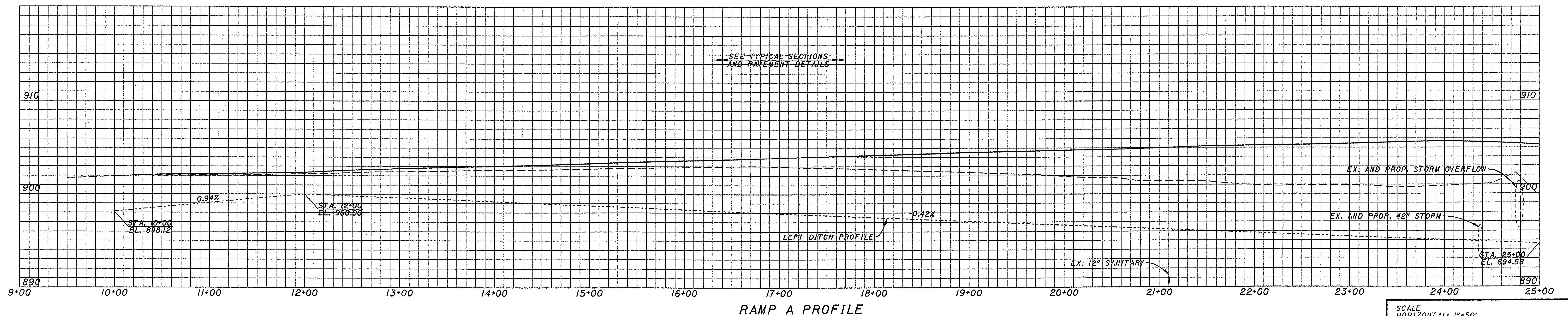
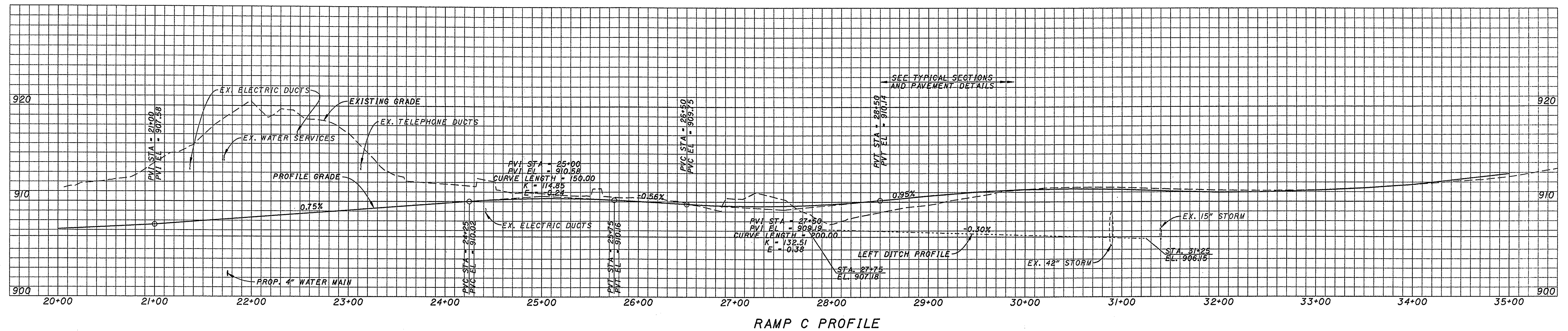
PLOT DATE: 20 JULY, 2004
DATE: AUGUST, 2004
C3.03



- NOTES:
1. SEE SHEETS C0.04 TO C0.07 FOR TYPICAL SECTIONS.
 2. SEE SHEET C3.05 FOR RAMP C PROFILE.
 3. SEE SHEET C3.07 FOR RAMP F PROFILE.
 4. EROSION CONTROL MAT TO BE PER ITEM 671, TYPE G AND INSTALLED PER THE STANDARD DRAWINGS.
 5. ROCK CHANNEL PROTECTION TO BE PER ITEM 601.09, 18" THICK WITH FILTER FABRIC.

CONSULTING ARCHITECTS & ENGINEERS ARCHITECT: OFFICE OF THE STATE ARCHITECT MECHANICAL, ELECTRICAL & STRUCTURAL: SRA, INC. SITE/CIVIL: KZF DESIGN LANDSCAPE ARCHITECTURE: KINZELMAN KLINE		
REVISIONS		
NO.	DATE	DESCRIPTION
FOR: OHIO DEPT. OF TRANSPORTATION		
DRAWING DESCRIPTION: EAST RAMPS - GRADING PLAN		
PROJECT NO. 770-2003-074 I-70 / LICKING COUNTY REST AREA		
STATE OF OHIO DEPARTMENT OF ADMINISTRATIVE SERVICES GENERAL SERVICES DIVISION PREPARED BY GENERAL SERVICES DIVISION OFFICE OF THE STATE ARCHITECT		
POST DATE 20 JULY, 2004	DATE AUGUST, 2004	C3.04

\\paw005\CV\4585304.dgn 07/20/2004 10:44:38 AM



SCALE
HORIZONTAL: 1"=50'
VERTICAL: 1"=5'

CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL & STRUCTURAL:
SRA, INC.
SITEWORK:
KZF DESIGN
LANDSCAPE ARCHITECTURE:
KINZELMAN KLINE

REVISIONS	
NO.	DATE DESCRIPTION

FOR:
OHIO DEPT. OF TRANSPORTATION

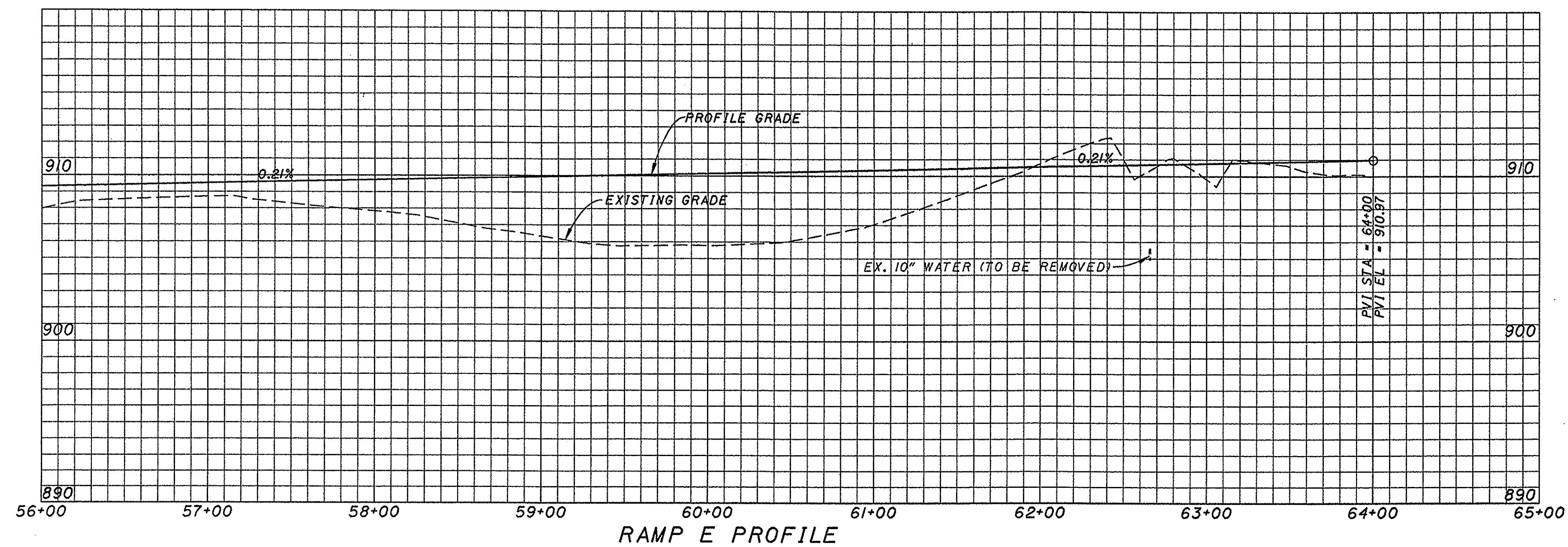
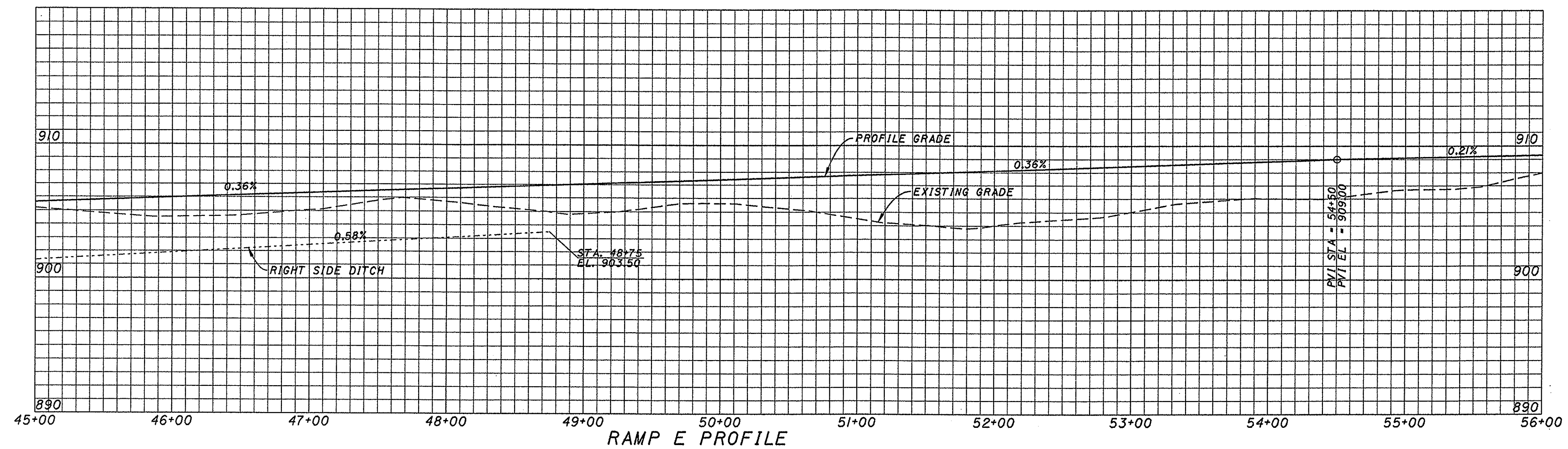
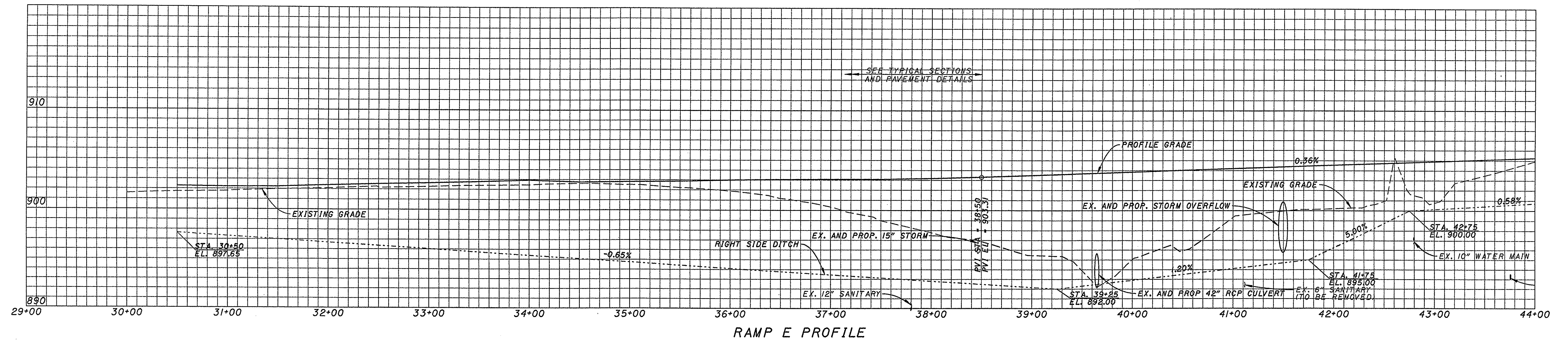
DRAWING DESCRIPTION:
RAMP A AND RAMP C PROFILES

PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY:
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLOT DATE: 20 JULY, 2004
DATE: AUGUST, 2004
C3.05

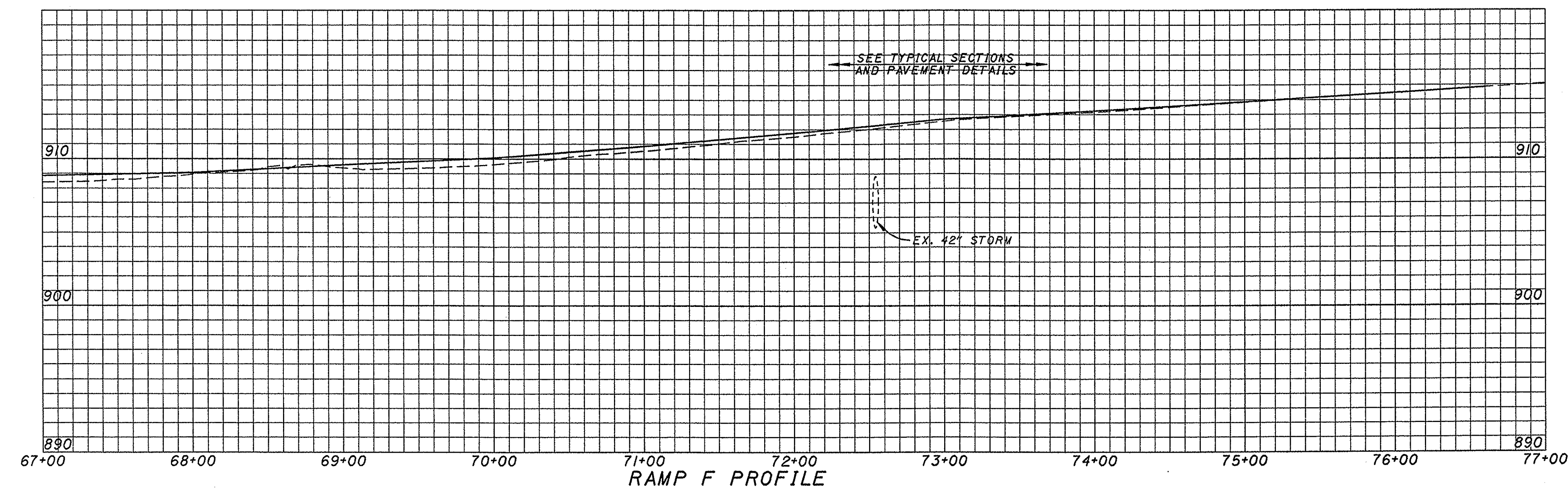
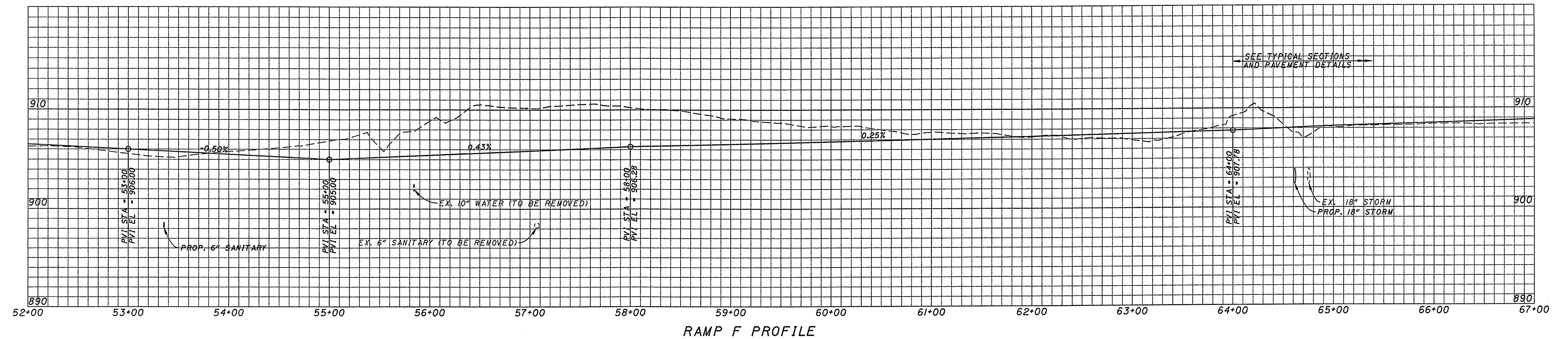
STATE OF OHIO
BRYAN MICHAEL BENDER
E-66622
REGISTERED PROFESSIONAL ENGINEER



SCALE
HORIZONTAL: 1"=50'
VERTICAL: 1"=5'

CONSULTING ARCHITECTS & ENGINEERS	
ARCHITECT: OFFICE OF THE STATE ARCHITECT	
MECHANICAL, ELECTRICAL & STRUCTURAL: SRA, INC.	
SITE CIVIL DESIGN: KINZELMAN KLINE	
REVISIONS	
NO.	DATE DESCRIPTION
FOR: OHIO DEPT. OF TRANSPORTATION	
DRAWING DESCRIPTION: RAMP E PROFILE	
PROJECT NO. 770-2003-074 I-70 / LICKING COUNTY REST AREA	
STATE OF OHIO DEPARTMENT OF ADMINISTRATIVE SERVICES GENERAL SERVICES DIVISION	
PREPARED BY: OFFICE OF THE STATE ARCHITECT	
PLT DATE 20 JULY, 2004	DATE AUGUST, 2004
C3.06	

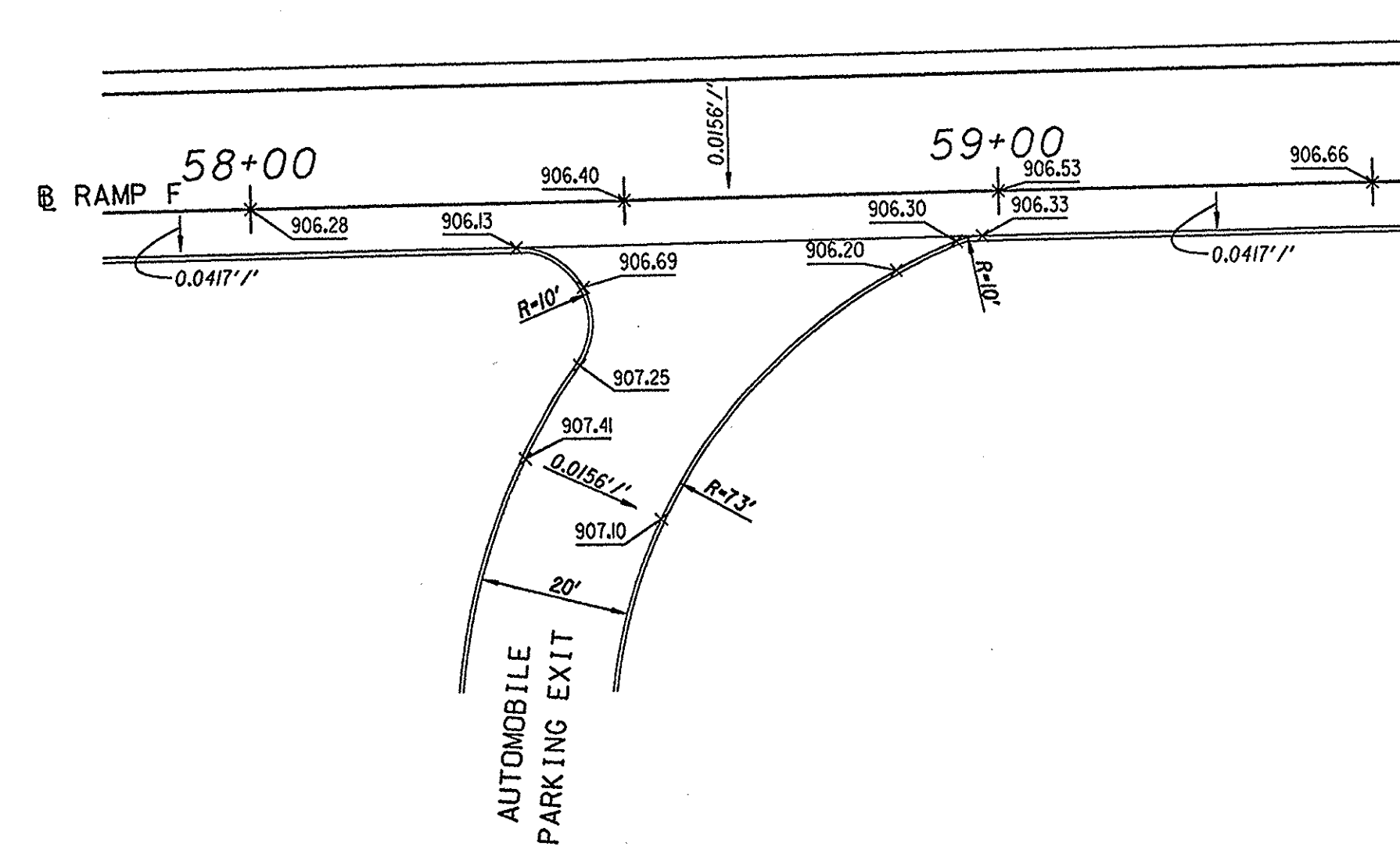
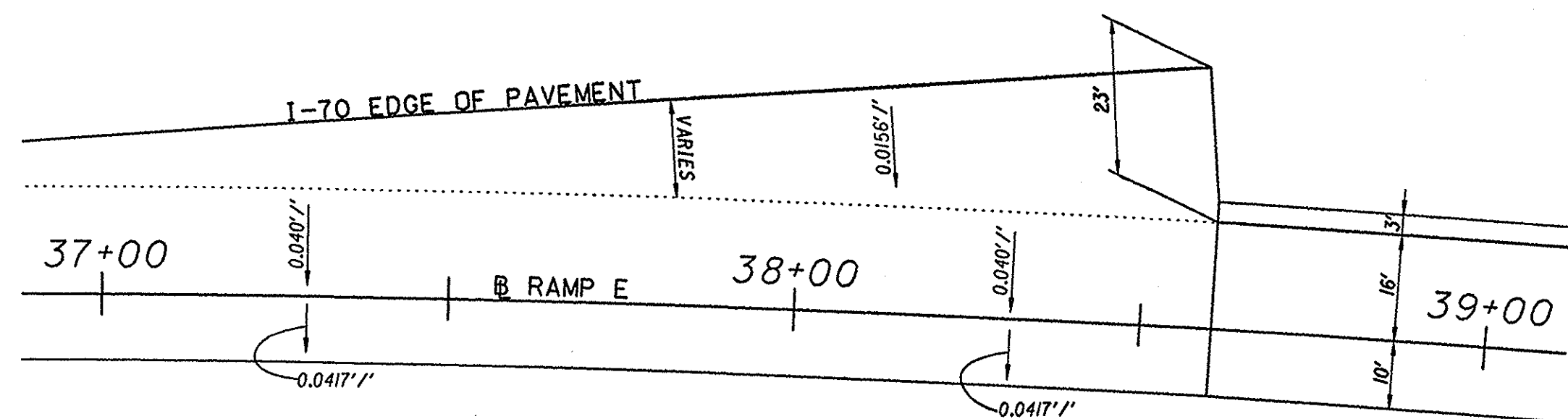
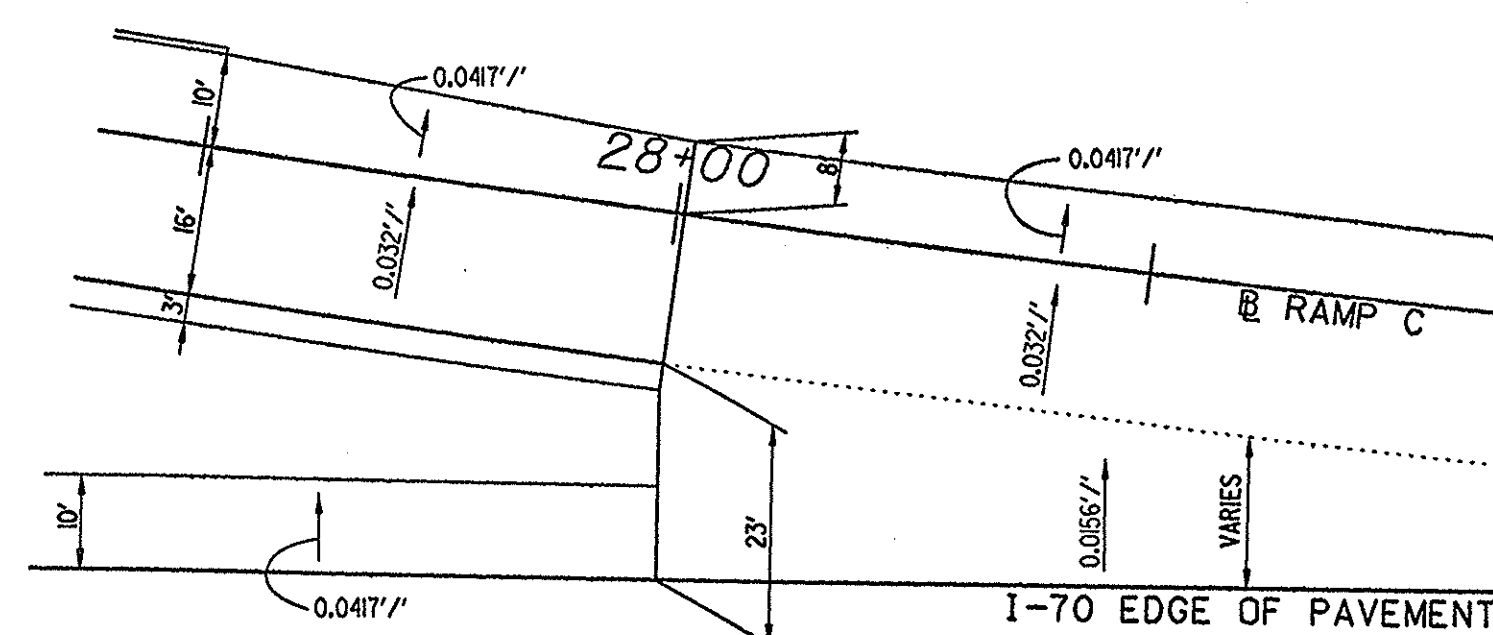
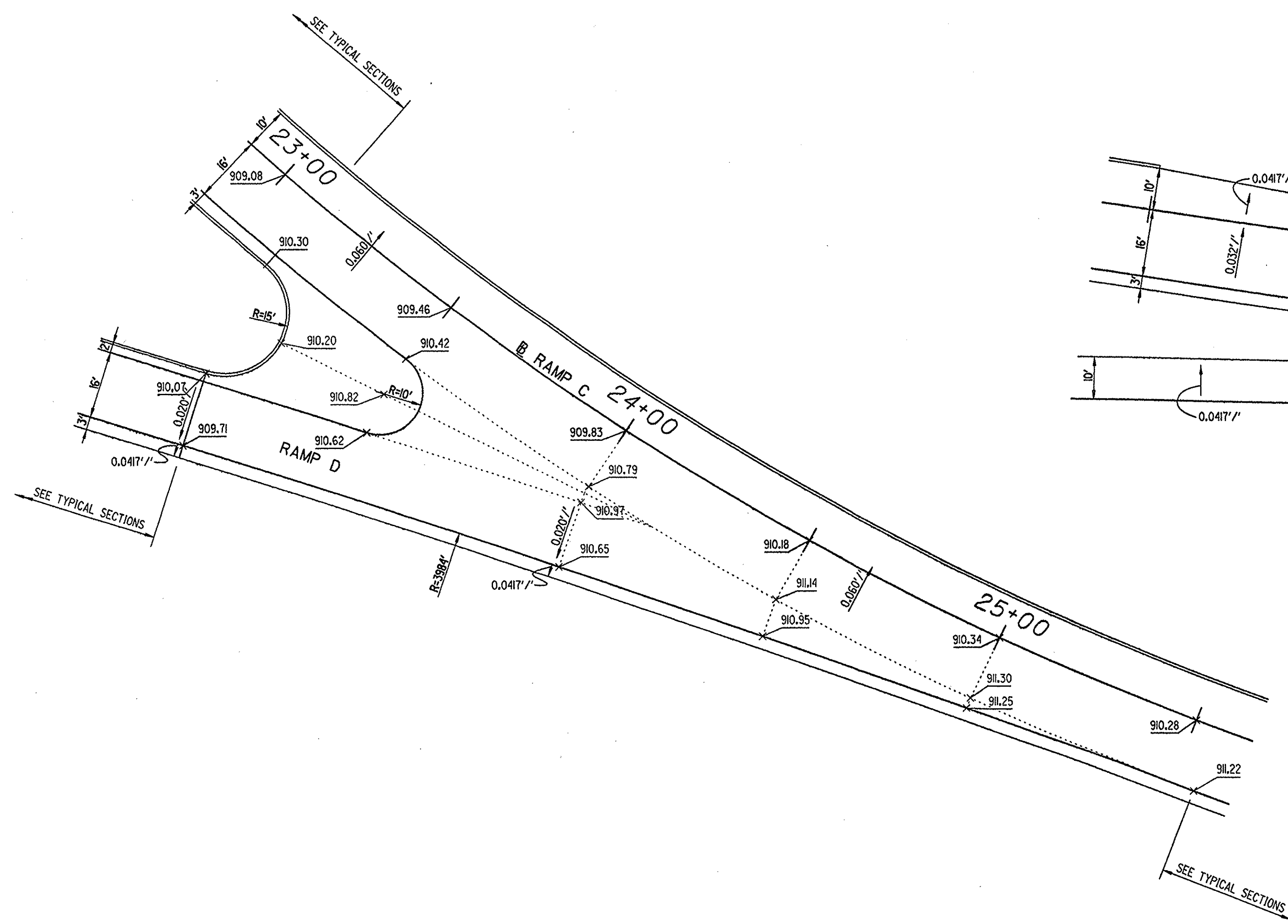
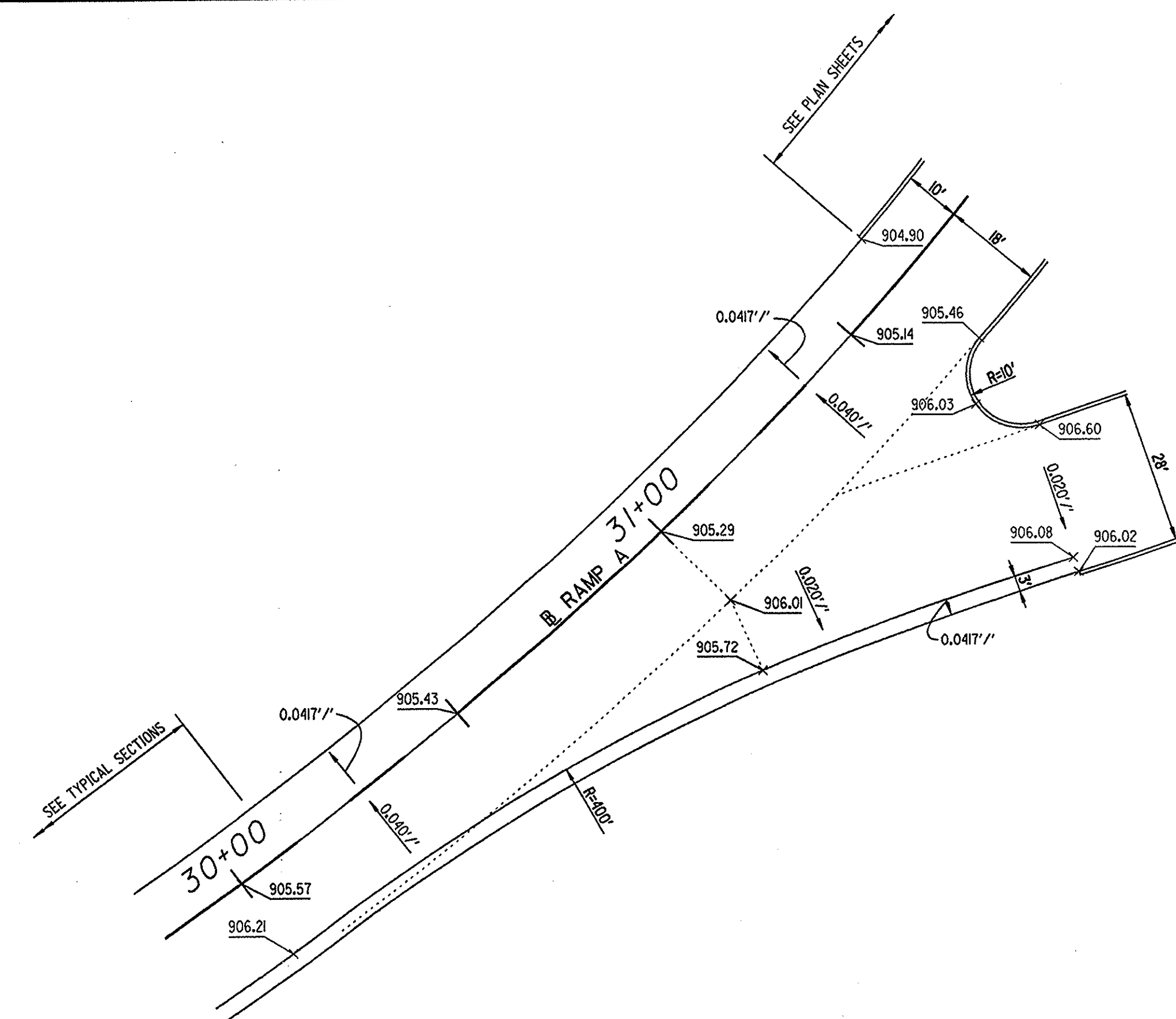
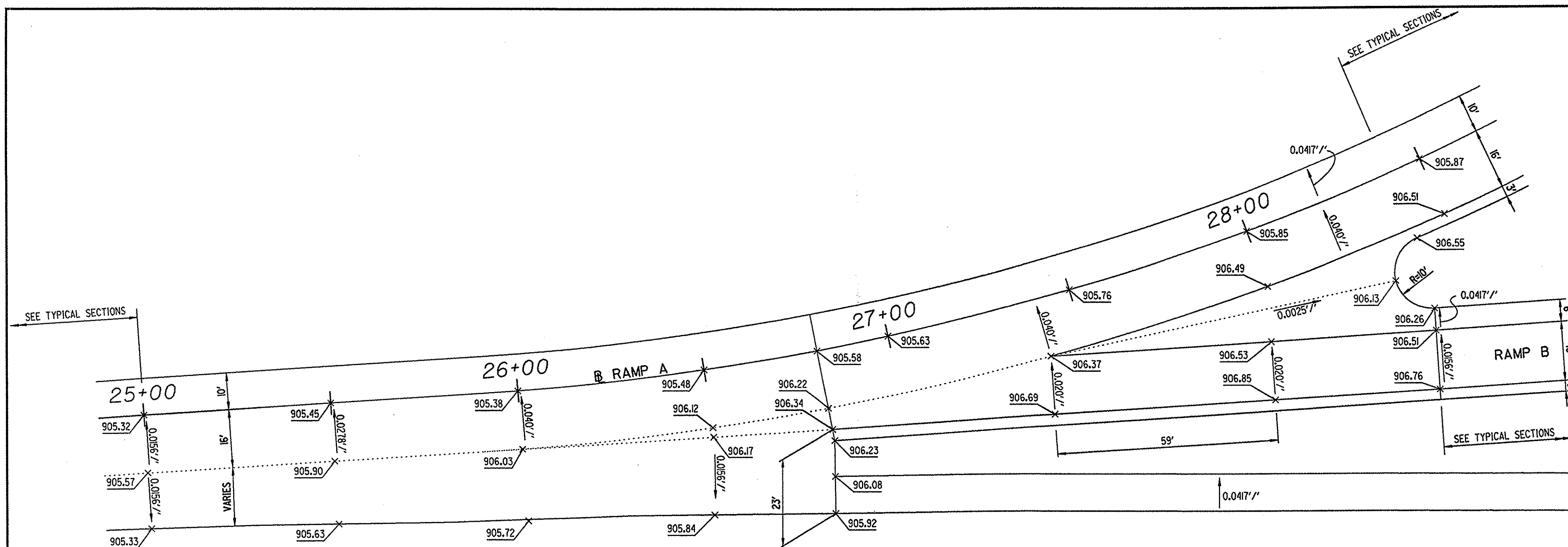
BID/CONSTRUCTION SET



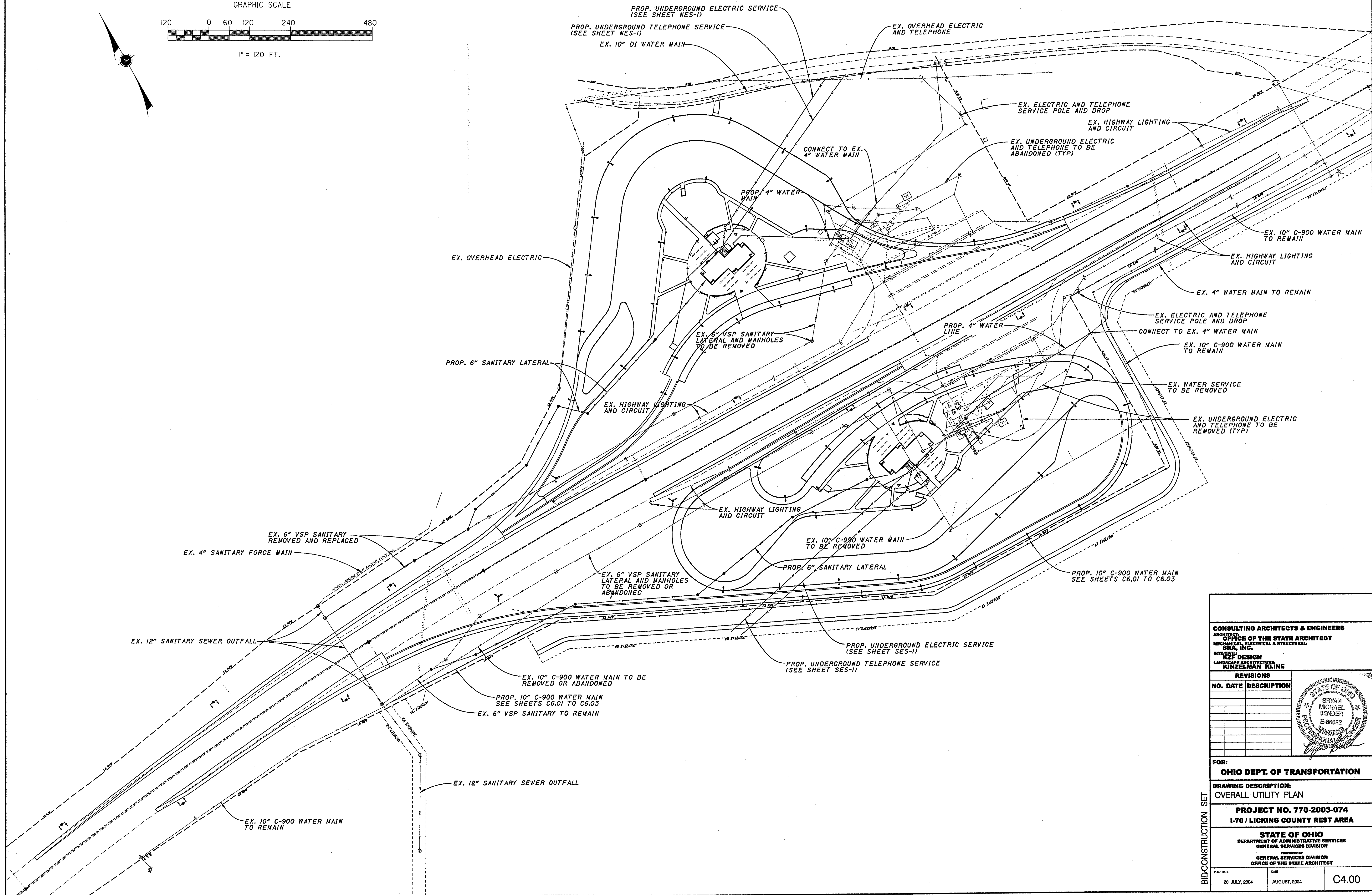
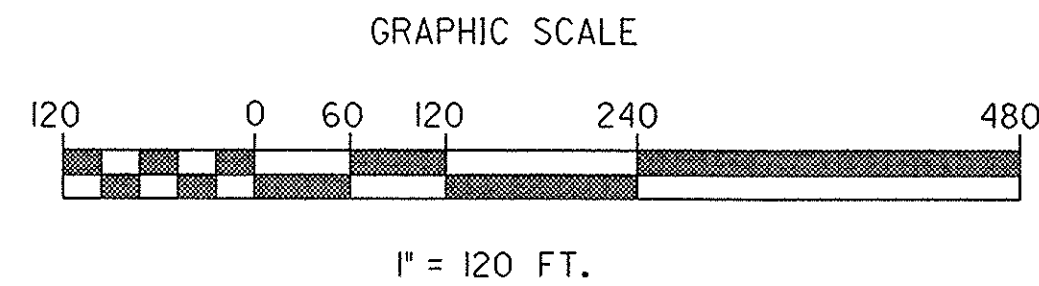
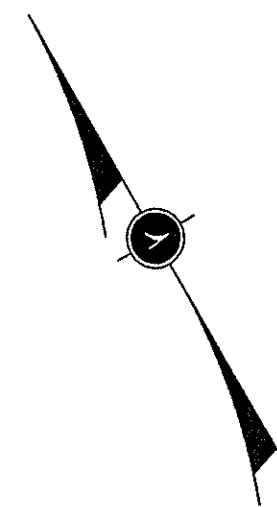
SCALE:
HORIZONTAL: 1"=50'
VERTICAL: 1"=5'

CONSULTING ARCHITECTS & ENGINEERS ARCHITECT: OFFICE OF THE STATE ARCHITECT MECHANICAL, ELECTRICAL & STRUCTURAL: SRA, INC. SITEWORK: KZF DESIGN LANDSCAPE ARCHITECTURE: KINZELMAN KLINE																												
REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		NO.	DATE	DESCRIPTION																								
NO.	DATE	DESCRIPTION																										
FOR: OHIO DEPT. OF TRANSPORTATION																												
DRAWING DESCRIPTION: RAMP F PROFILE																												
PROJECT NO. 770-2003-074 I-70 / LICKING COUNTY REST AREA																												
STATE OF OHIO DEPARTMENT OF ADMINISTRATIVE SERVICES GENERAL SERVICES DIVISION PREPARED BY: GENERAL SERVICES DIVISION OFFICE OF THE STATE ARCHITECT																												
PLOT DATE: 20 JULY, 2004	DATE: AUGUST, 2004																											
C3.07																												

BID/CONSTRUCTION SET

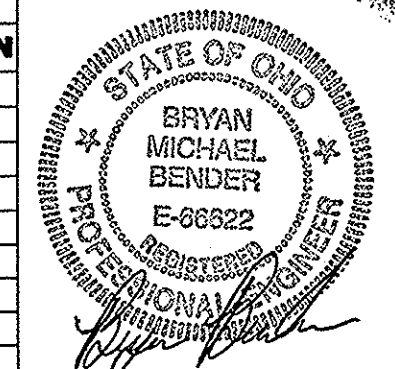


CONSULTING ARCHITECTS & ENGINEERS OFFICE OF THE STATE ARCHITECT SRA, INC. MECHANICAL, ELECTRICAL & STRUCTURAL SITEWORK KZF DESIGN LANDSCAPE ARCHITECTURE KINZELMAN KLINE																																			
REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>			NO.	DATE	DESCRIPTION																														
NO.	DATE	DESCRIPTION																																	
FOR: OHIO DEPT. OF TRANSPORTATION																																			
DRAWING DESCRIPTION: PAVEMENT DETAILS																																			
PROJECT NO. 770-2003-074 I-70 / LICKING COUNTY REST AREA																																			
STATE OF OHIO DEPARTMENT OF ADMINISTRATIVE SERVICES GENERAL SERVICES DIVISION PREPARED BY GENERAL SERVICES DIVISION OFFICE OF THE STATE ARCHITECT																																			
PLOT DATE 20 JULY, 2004	DATE AUGUST, 2004	C3.08																																	



CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT
OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL & STRUCTURAL
SRA, INC.
SITE/CIVIL
LANDSCAPE ARCHITECTURE
KINZELMAN KLINE

REVISIONS		
NO.	DATE	DESCRIPTION



FOR:
OHIO DEPT. OF TRANSPORTATION

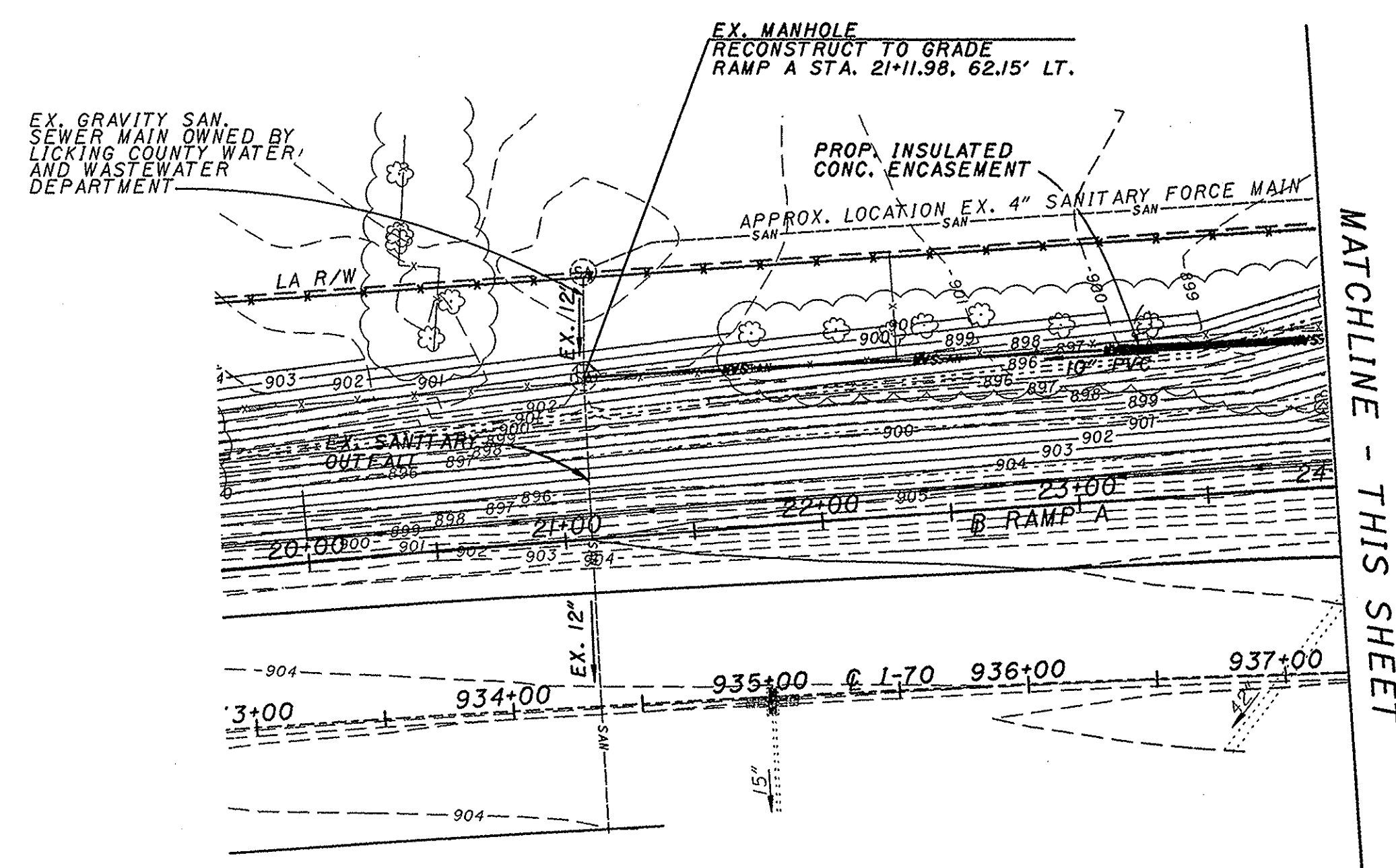
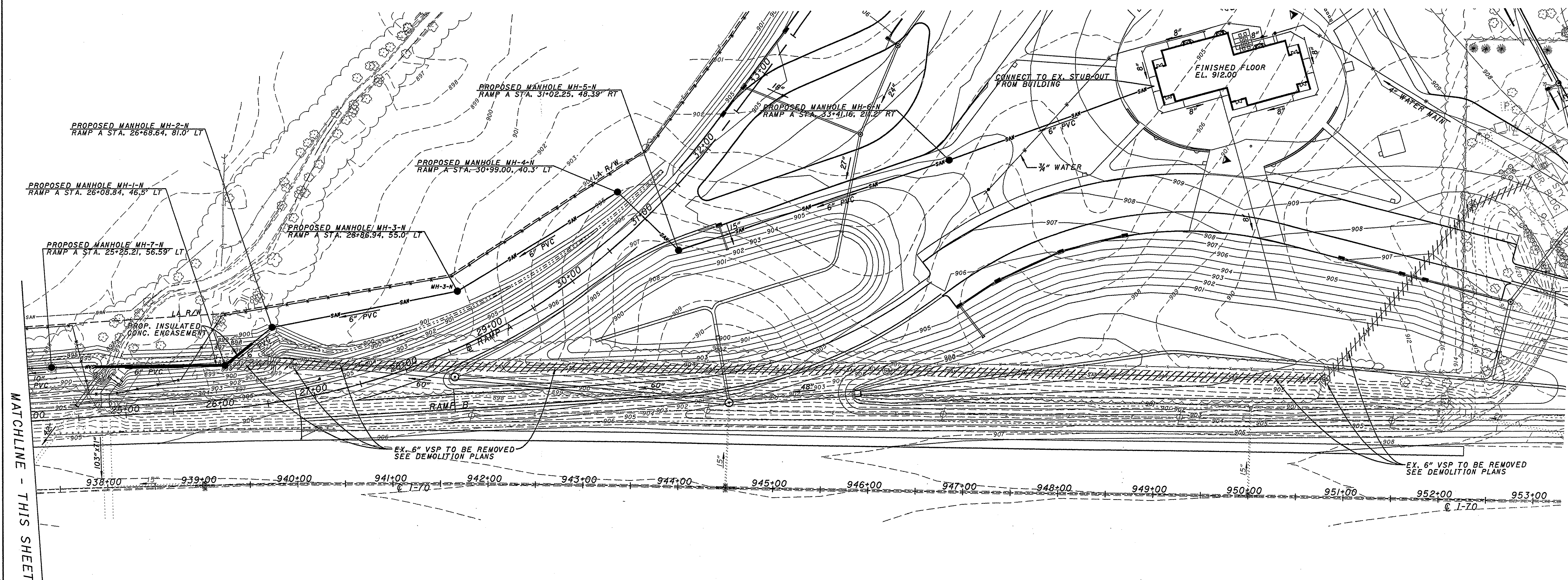
DRAWING DESCRIPTION:
OVERALL UTILITY PLAN

PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLOT DATE	DATE	C4.00
20 JULY, 2004	AUGUST, 2004	

BID/CONSTRUCTION SET

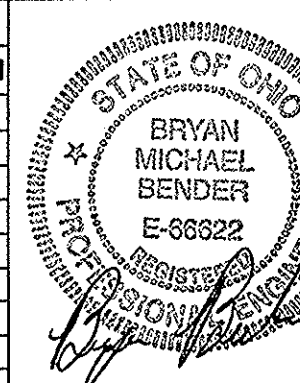


Note:
Roof drains, foundation drains, and other clean water connections to the sanitary sewer system are prohibited.

CONSULTING ARCHITECTS & ENGINEERS ARCHITECT OFFICE OF THE STATE ARCHITECT MECHANICAL, ELECTRICAL & STRUCTURAL SRA, INC. SITE/DESIGN LANDSCAPE ARCHITECTURE KINZELMAN KLINE		
REVISIONS		
NO.	DATE	DESCRIPTION

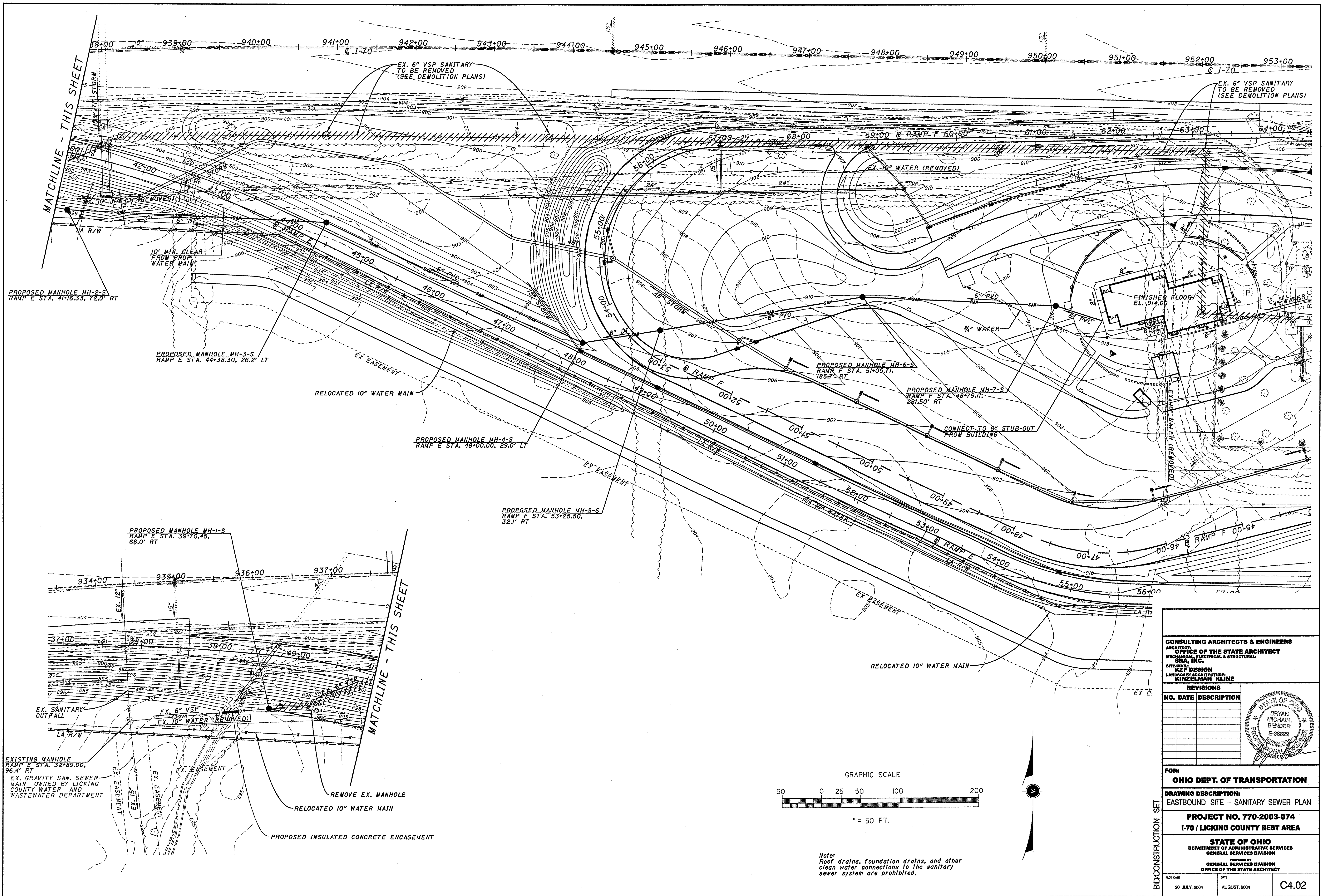
FOR:

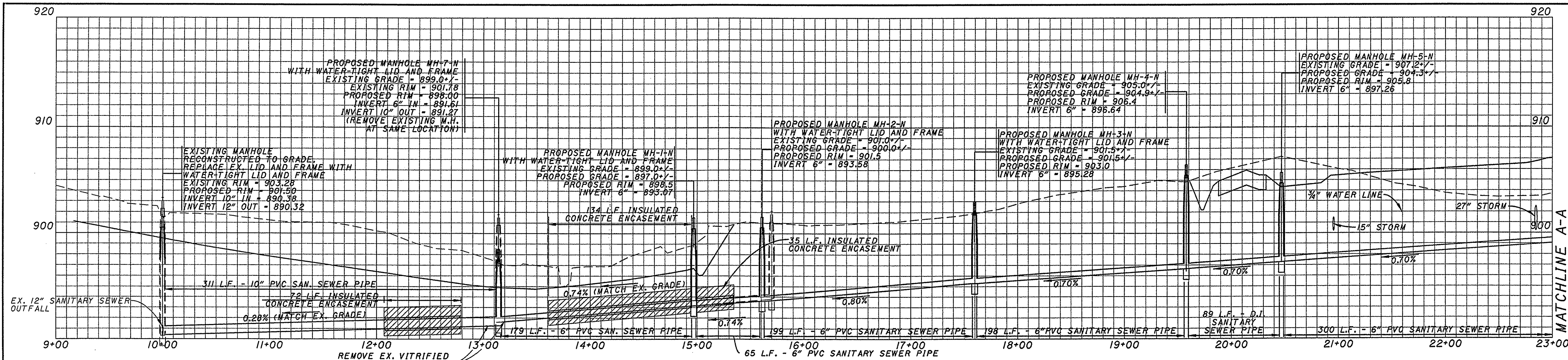
OHIO DEPT. OF TRANSPORTATION



DRAWING DESCRIPTION:		
WESTWOOD SITE - SANITARY SEWER PLAN		
PROJECT NO. 770-2003-074		
I-70 / LICKING COUNTY REST AREA		
STATE OF OHIO		
DEPARTMENT OF ADMINISTRATIVE SERVICES		
GENERAL SERVICES DIVISION		
PREPARED BY		
GENERAL SERVICES DIVISION		
OFFICE OF THE STATE ARCHITECT		

NOT DATE	DATE	
20 JULY, 2004	AUGUST, 2004	C4.01



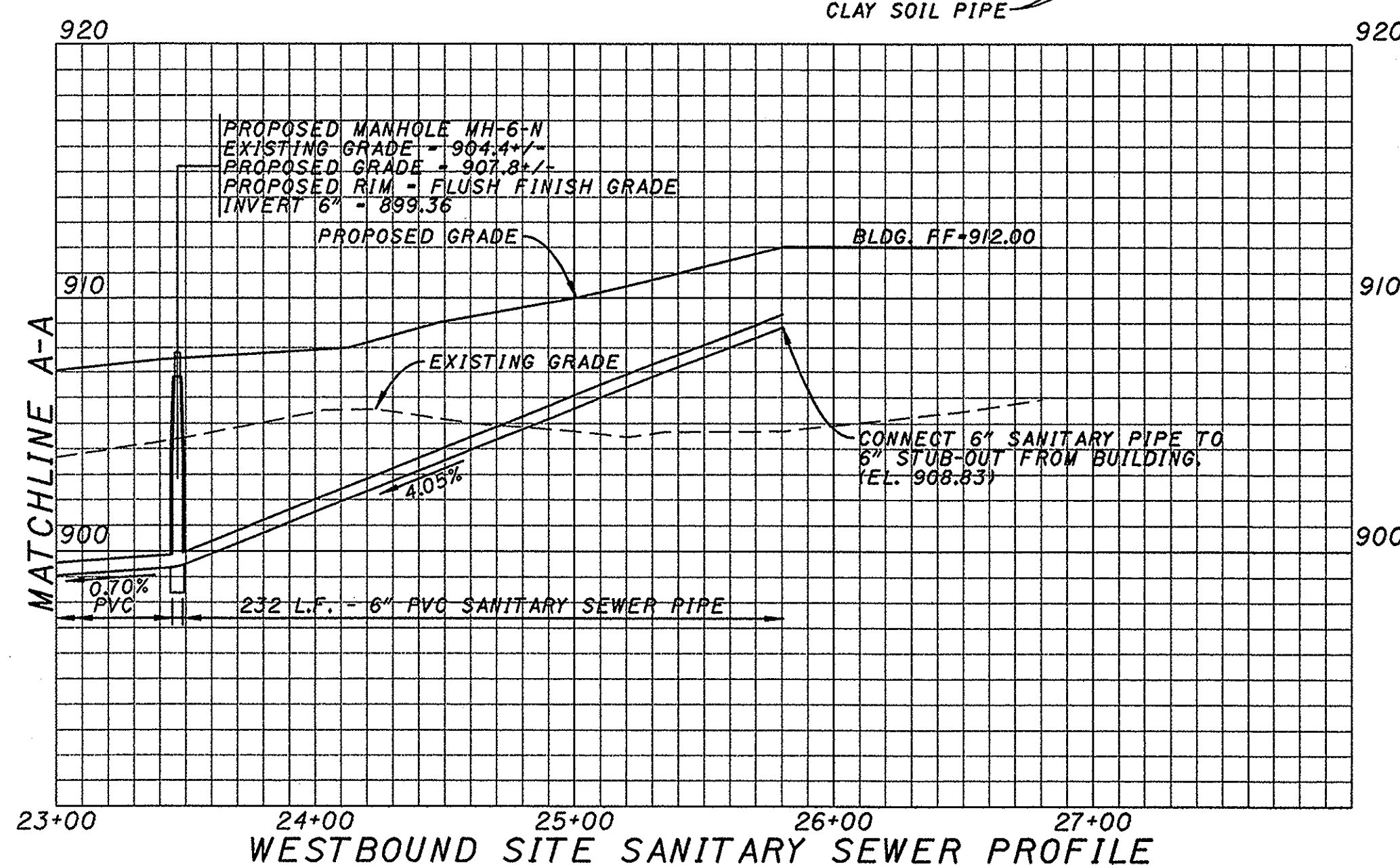


WATER-TIGHT LID AND FRAME NOTES:
 M.H.F.&C. = MANHOLE FRAME AND COVER
 WATER-TIGHT M.H.F.&C. SHALL BE
 NEENAH R-1916-F, EAST JORDAN 1040-PT.
 OR OWNER APPROVED EQUAL.
 M.H.F.&C. SHALL BE HEAVY DUTY WATER-
 TIGHT TYPE WITH GASKET SEAL AND BOLTED
 LID WITH STAINLESS STEEL BOLTS.
 MANHOLE FRAME SHALL BE ANCHORED
 THROUGH THE ANCHOR BASE FLANGE TO THE
 MANHOLE CONE SECTION WITH FOUR 1/2\" x 9\"
 STAINLESS STEEL ANCHOR BOLTS.

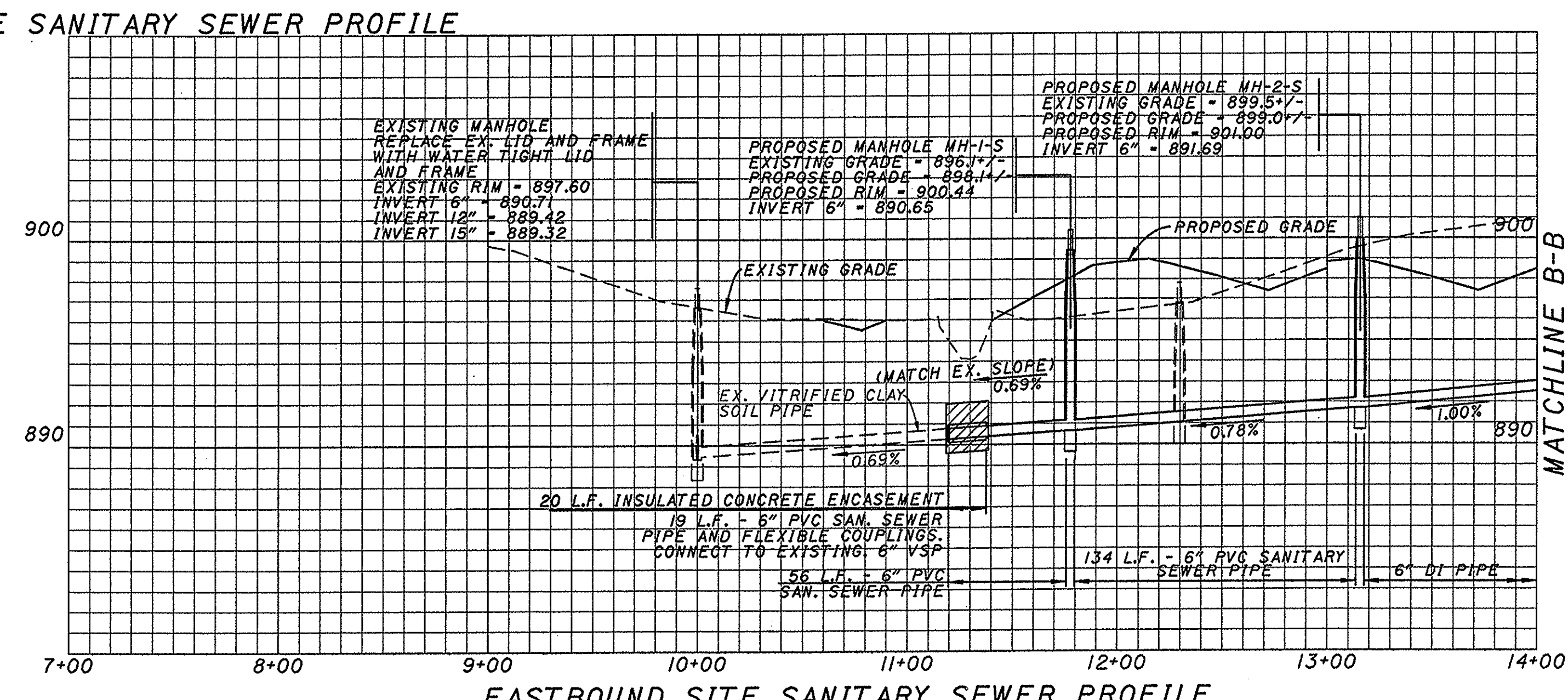
INSULATED CONCRETE ENCASUREMENT NOTE:
 INSULATED CONCRETE ENCASUREMENT
 INCLUDES REINFORCED CONCRETE CAST
 AGAINST 2\" THICK, EXTERIOR GRADE,
 RIGID INSULATION BOARD.
 RIGID INSULATION BOARD SHALL HAVE
 A MIN. R-VALUE OF 9.
 BOARD SHALL MEET ASTM C578-92 TYPE IX
 SPECIFICATIONS.
 BOARD SHALL BE WRAPPED TIGHTLY
 AGAINST PIPE.

Note:
 Roof drains, foundation drains, and other
 clean water connections to the sanitary
 sewer system are prohibited.

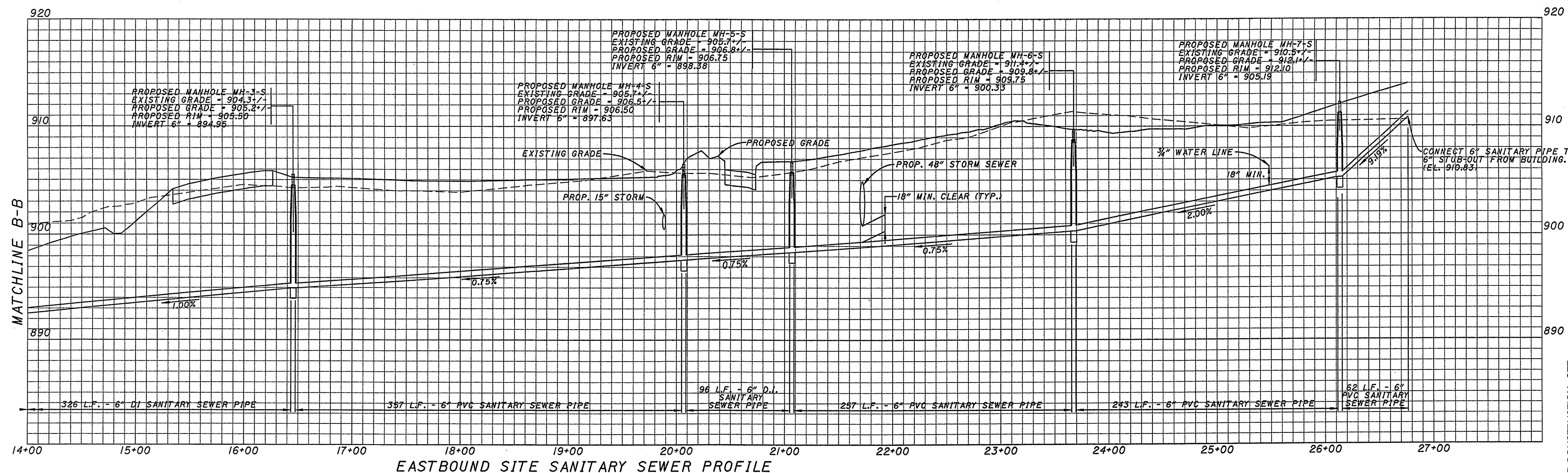
920 WESTBOUND SITE SANITARY SEWER PROFILE



WESTBOUND SITE SANITARY SEWER PROFILE



EASTBOUND SITE SANITARY SEWER PROFILE

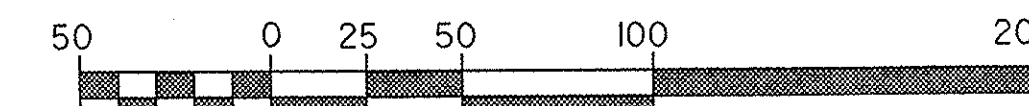


EASTBOUND SITE SANITARY SEWER PROFILE

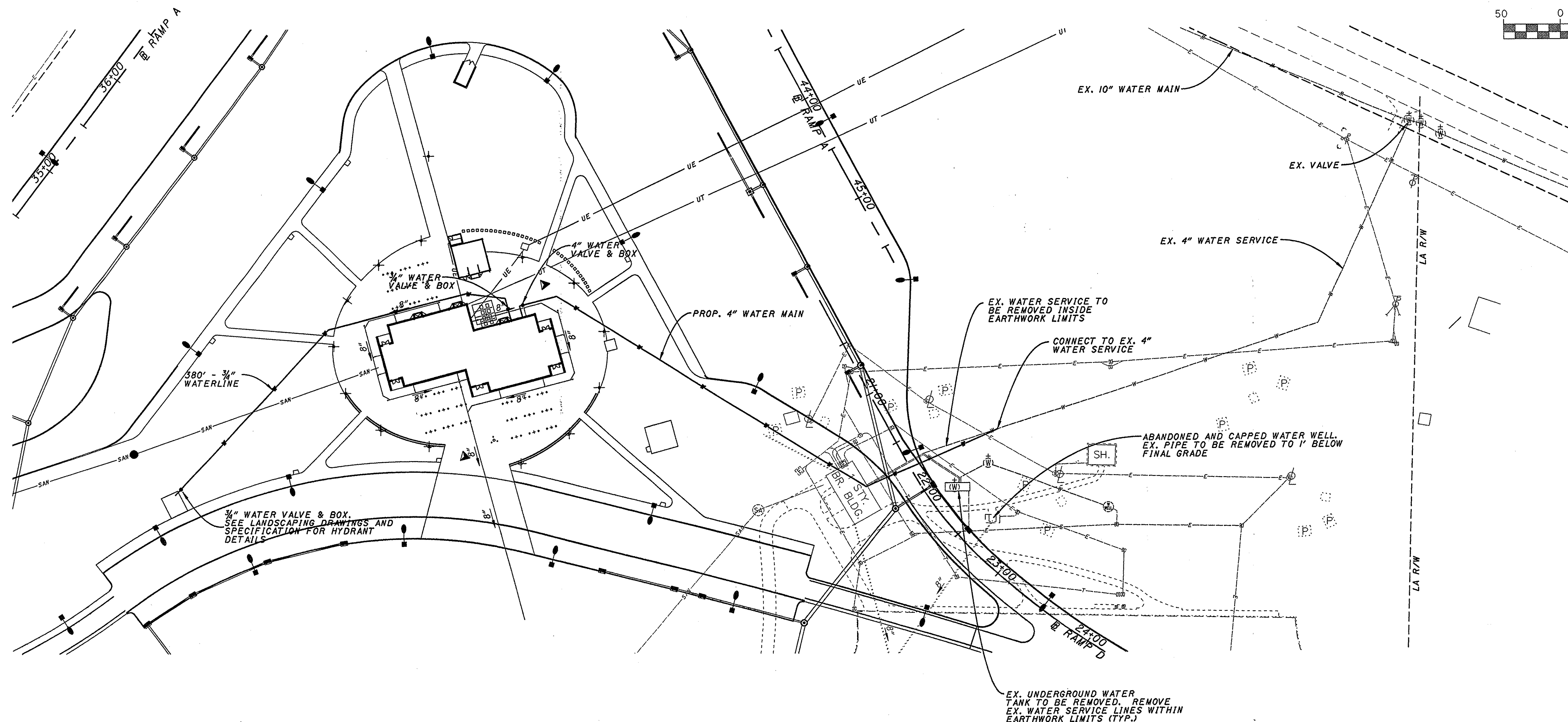
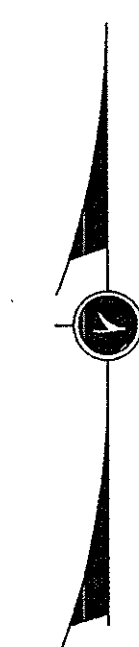
SCALE
 HORIZONTAL: 1\" = 50'
 VERTICAL: 1\" = 5'

CONSULTING ARCHITECTS & ENGINEERS	
ARCHITECT: OFFICE OF THE STATE ARCHITECT	
MECHANICAL, ELECTRICAL & STRUCTURAL: SRA, INC.	
SITING: KZF DESIGN	
LANDSCAPE ARCHITECTURE: KINZELMAN KLINE	
REVISIONS	
NO.	DATE DESCRIPTION
FOR: OHIO DEPT. OF TRANSPORTATION	
DRAWING DESCRIPTION: SANITARY SEWER PROFILES	
PROJECT NO. 770-2003-074	
1-70 / LICKING COUNTY REST AREA	
STATE OF OHIO	
DEPARTMENT OF ADMINISTRATIVE SERVICES	
GENERAL SERVICES DIVISION	
PREPARED BY: OFFICE OF THE STATE ARCHITECT	
PLOT DATE: 20 JULY, 2004	DATE: AUGUST, 2004
C4.03	

GRAPHIC SCALE

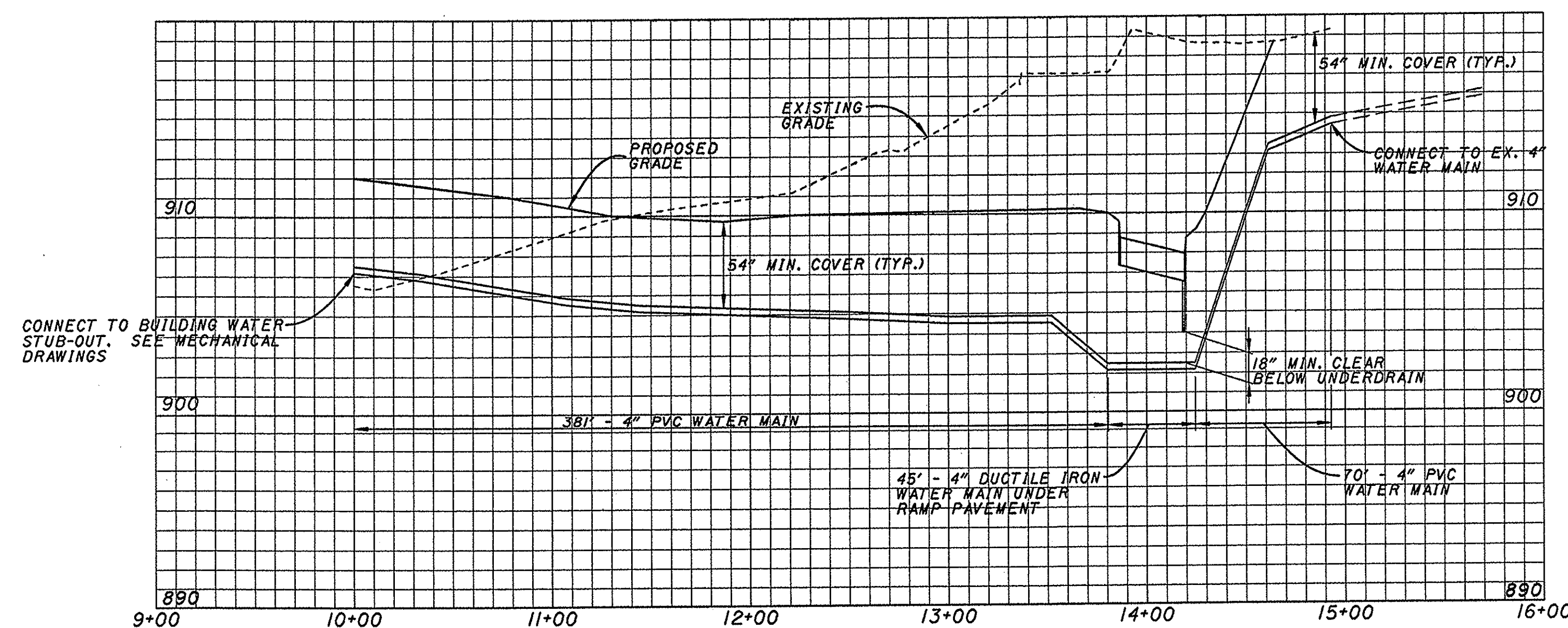


1" = 50 FT.



NOTES:

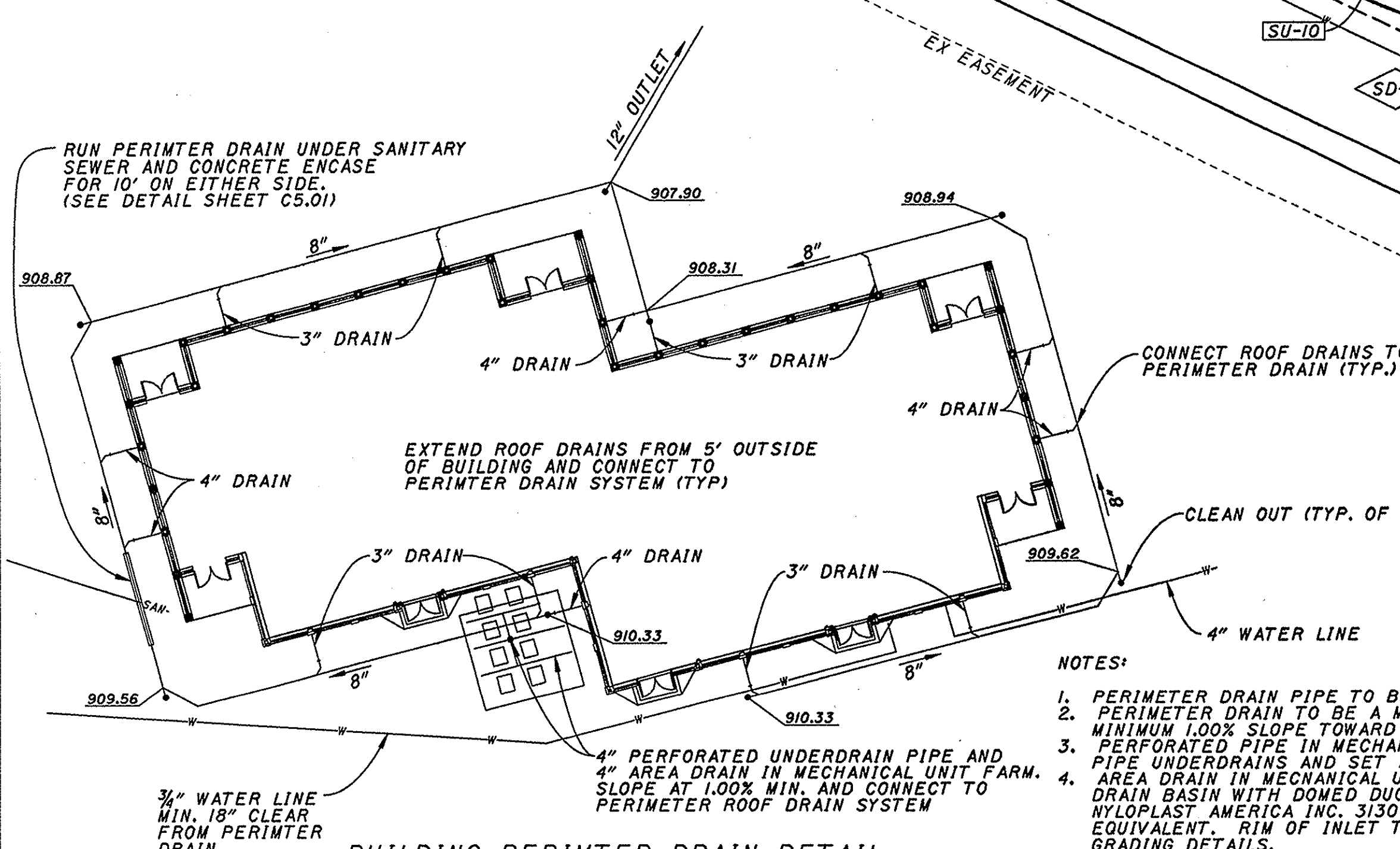
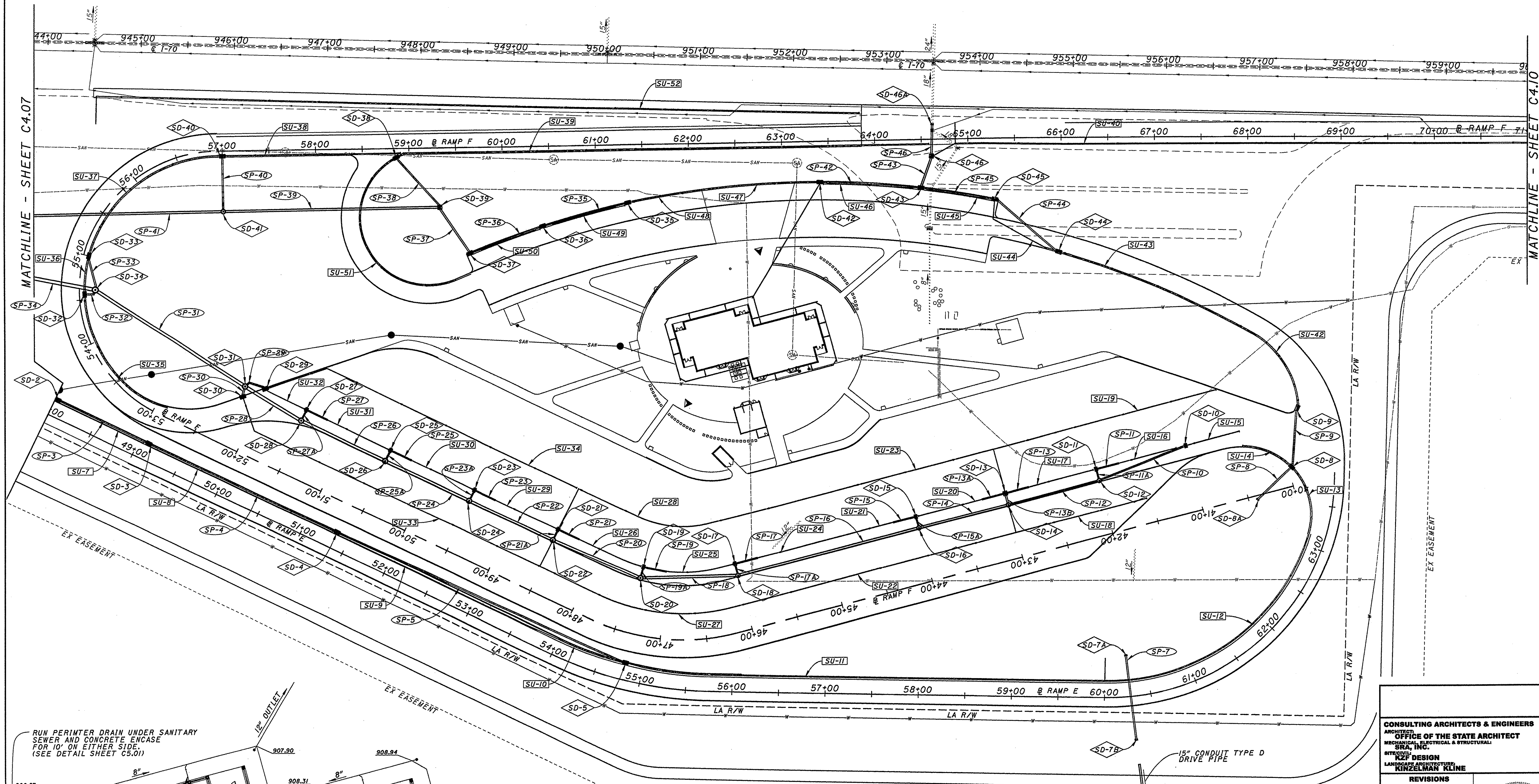
1. CONTRACTOR SHALL INCLUDE ALL FITTINGS, RESTRAINTS, MATERIAL AND LABOR REQUIRED TO COMPLETE INSTALLATION OF PROPOSED WATER LINES.
2. WATER LINES TO BE CONSTRUCTED A MINIMUM OF 54" BELOW FINAL GRADE.
3. CONNECTION TO EXISTING WATER SERVICE TO MAINTAIN A MINIMUM DEPTH OF 54" BELOW GRADE AT ALL LOCATIONS.
4. SEE SHEET LI.4 FOR IRRIGATION WATER LINE PLAN AND NOTES.



CONSULTING ARCHITECTS & ENGINEERS ARCHITECT OFFICE OF THE STATE ARCHITECT MECHANICAL, ELECTRICAL & STRUCTURAL SRA, INC. SITE/CIVIL KZF DESIGN LANDSCAPE ARCHITECTURE KINZELMAN KLINE																																		
REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		NO.	DATE	DESCRIPTION																														
NO.	DATE	DESCRIPTION																																
FOR: OHIO DEPT. OF TRANSPORTATION DRAWING DESCRIPTION: WESTBOUND REST AREA - WATER PLAN PROJECT NO. 770-2003-074 I-70 / LICKING COUNTY REST AREA																																		
STATE OF OHIO DEPARTMENT OF ADMINISTRATIVE SERVICES GENERAL SERVICES DIVISION PREPARED BY: GENERAL SERVICES DIVISION OFFICE OF THE STATE ARCHITECT																																		
PLOT DATE: 20 JULY, 2004	DATE: AUGUST, 2004																																	
C4.04																																		

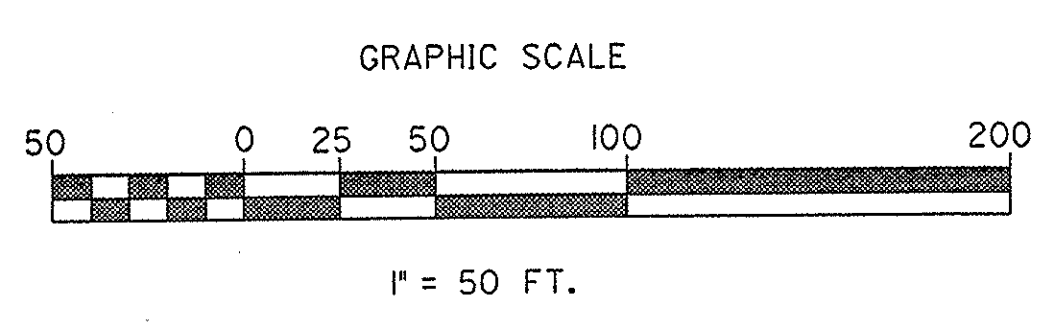
BID/CONSTRUCTION SET

\\sra\p\770-2003-074.dgn 07/20/2004 10:16:58 AM



NOTES:
 1. SEE GENERAL NOTES FOR ADDITIONAL NOTES.
 2. SEE SHEET C4.13 FOR DRAINAGE STRUCTURES AND PIPE SIZES.

NOTES:
 1. PERIMETER DRAIN PIPE TO BE PER ITEM 603 TYPE C.
 2. PERIMETER DRAIN TO BE A MINIMUM OF 36\"/>



CONSULTING ARCHITECTS & ENGINEERS
 ARCHITECT: **OFFICE OF THE STATE ARCHITECT**
 MECHANICAL, ELECTRICAL & STRUCTURAL: **SRA, INC.**
 SITE/CIVIL: **KZF DESIGN**
 LANDSCAPE ARCHITECTURE: **KINZELMAN KLINE**

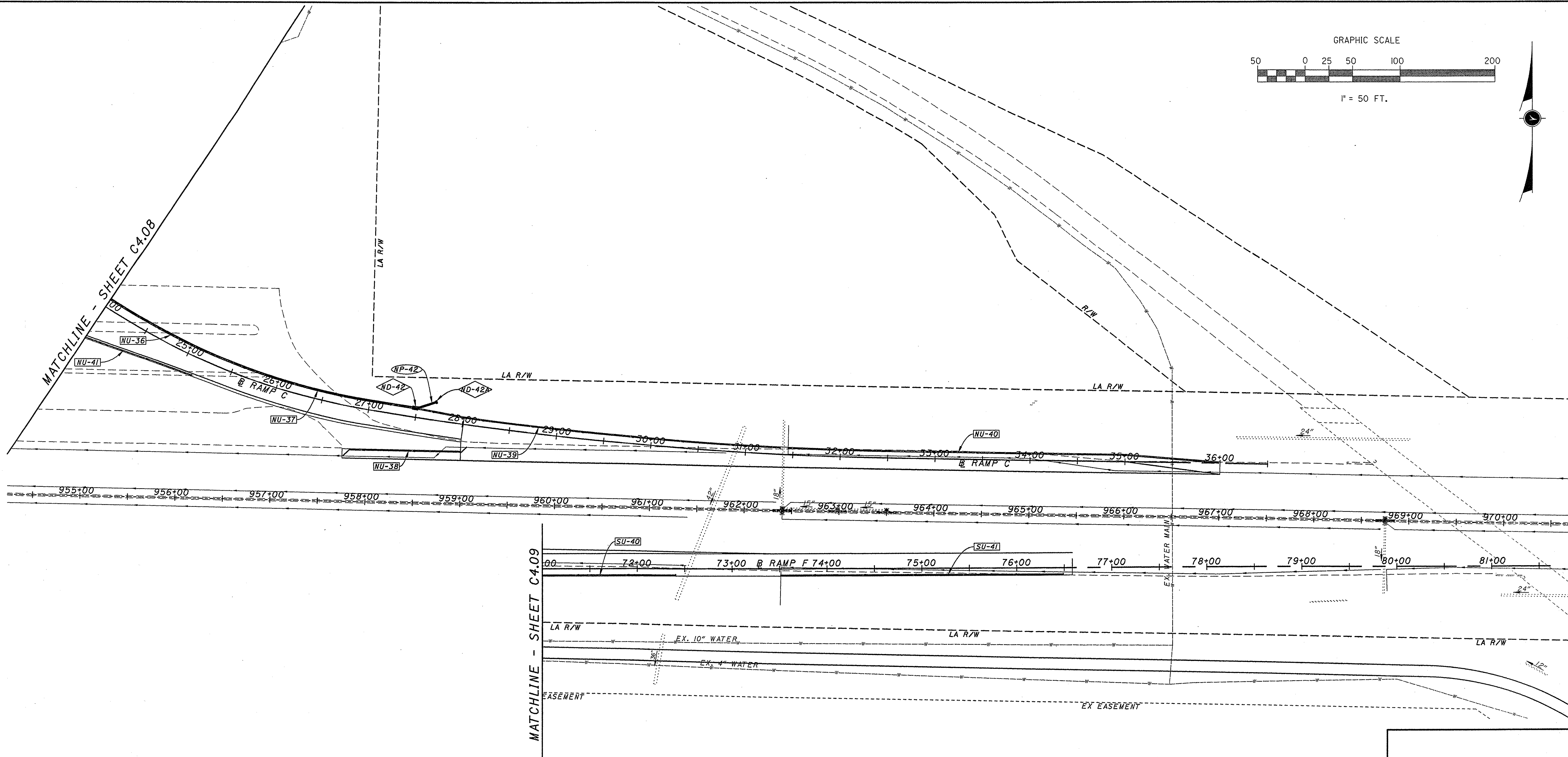
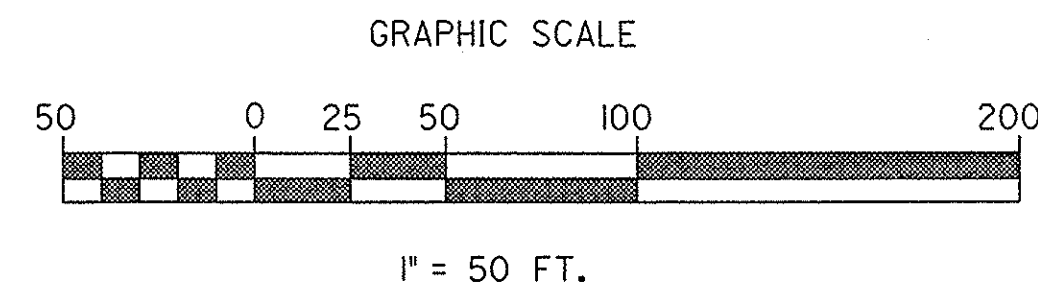
REVISIONS		
NO.	DATE	DESCRIPTION

FOR:
OHIO DEPT. OF TRANSPORTATION
 DRAWING DESCRIPTION:
EASTBOUND SITE - DRAINAGE PLAN
PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
 DEPARTMENT OF ADMINISTRATIVE SERVICES
 GENERAL SERVICES DIVISION
 PREPARED BY:
 GENERAL SERVICES DIVISION
 OFFICE OF THE STATE ARCHITECT

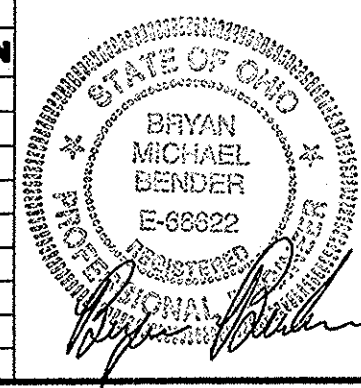
DATE: 20 JULY, 2004
 DATE: AUGUST, 2004
C4.09

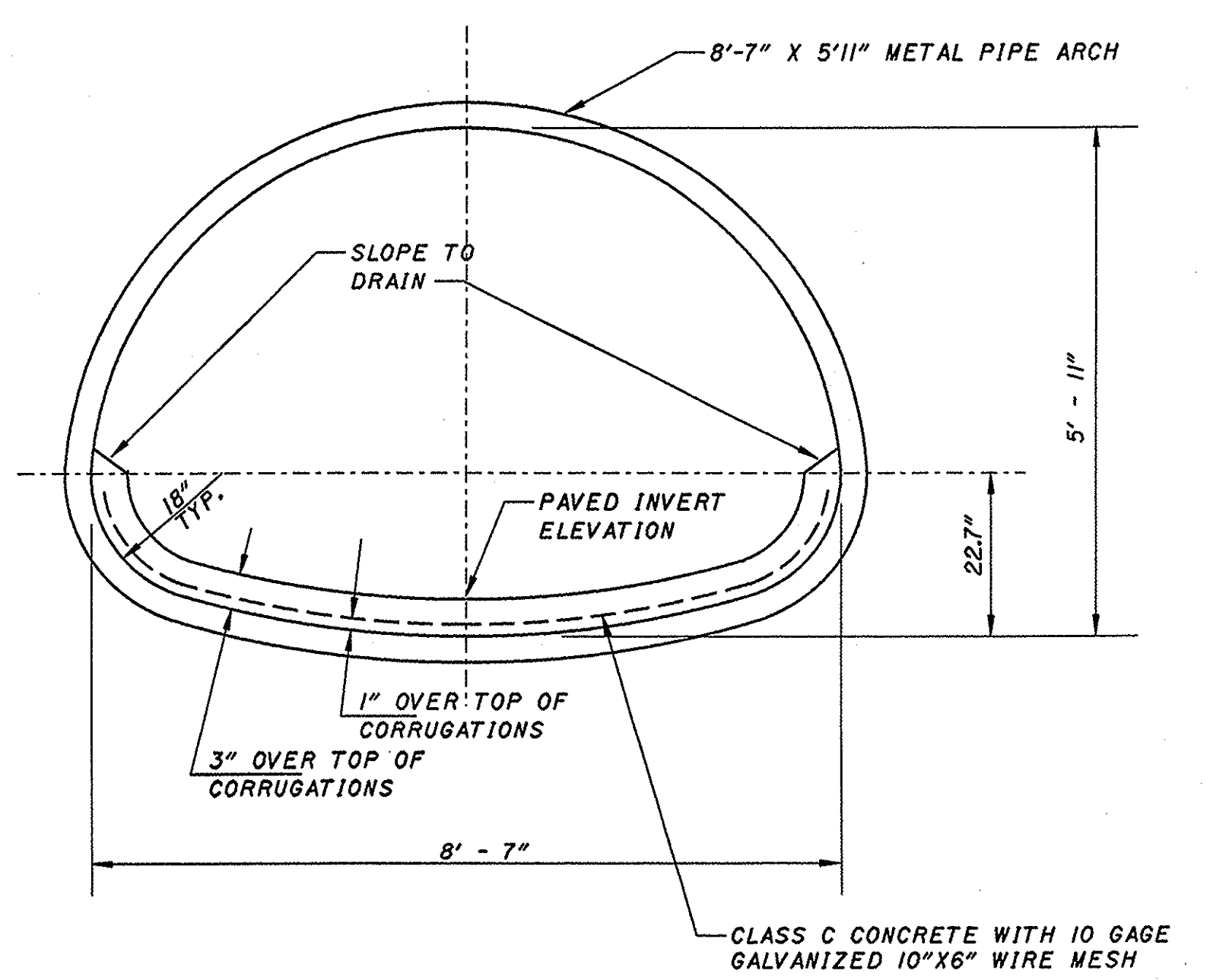
Drawings: 001-68862403.dgn 07/20/2004 10:17:52 AM



- NOTES:
1. SEE GENERAL NOTES FOR ADDITIONAL NOTES.
 2. SEE SHEET C4.13 FOR DRAINAGE STRUCTURES AND PIPE SIZES.

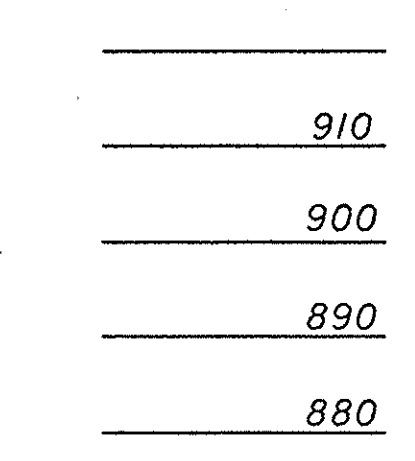
CONSULTING ARCHITECTS & ENGINEERS ARCHITECT OFFICE OF THE STATE ARCHITECT MECHANICAL, ELECTRICAL & STRUCTURAL SRA, INC. SITE/CIVIL KZF DESIGN LANDSCAPE ARCHITECTURE KINZELMAN KLINE		
REVISIONS		
NO.	DATE	DESCRIPTION
FOR: OHIO DEPT. OF TRANSPORTATION		
DRAWING DESCRIPTION: EAST RAMP - DRAINAGE PLAN		
PROJECT NO. 770-2003-074 I-70 / LICKING COUNTY REST AREA		
PREPARED BY STATE OF OHIO DEPARTMENT OF ADMINISTRATIVE SERVICES GENERAL SERVICES DIVISION OFFICE OF THE STATE ARCHITECT		
PLANT DATE 20 JULY, 2004	DATE AUGUST, 2004	C4.10





GRAPHIC SCALE

1" = 20 FT.



..\Drawings\CD\4985C412.dgn 07/20/2004 10:18:40 AM

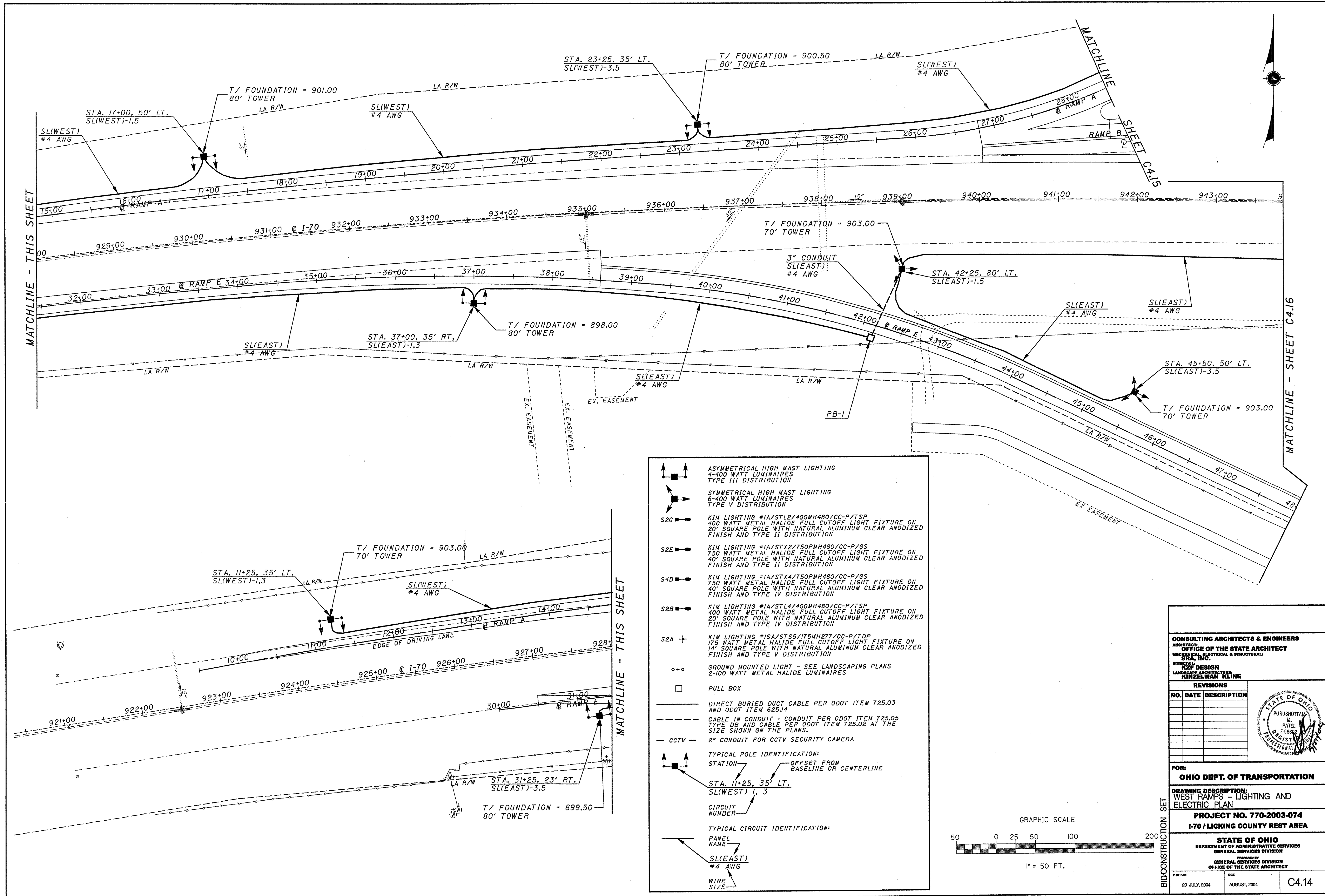
WESTBOUND UNDERDRAIN SUMMARY															
Number	Station to Station	Outlet	6" Type B Conduit (Perforated)	6" Conduit Type B (Non-Perforated)	6" Conduit Type F (Non-Perforated)	Outlet Headwall	Remarks	Number	Station to Station	Outlet	6" Type B Conduit (Perforated)	6" Conduit Type B (Non-Perforated)	6" Conduit Type F (Non-Perforated)	Outlet Headwall	Remarks
NU-1	LI Sta. 10+00 to LI Sta. 14+95 Ramp A	Ex. Underdrain at 10+00 LI	497	0	0	0		NU-24	LI Sta. 40+50 to LI Sta. 42+00 Ramp A	Catch Basin (ND-23)	150	5	0	0	
NU-2	LI Sta. 15+00 to LI Sta. 19+95 Ramp A	Headwall 15+00 LI	495	0	19	1		NU-25	RI Sta. 39+50 to RI Sta. 41+75 Ramp A	Catch Basin (ND-24)	156	5	0	0	Continuous at 39+50
NU-3	LI Sta. 20+00 to LI Sta. 24+74 Ramp A	Headwall 20+00 LI	474	0	20	1		NU-26	RI Sta. 41+81 to RI Sta. 43+14 Ramp A	Catch Basin (ND-25)	92	5	0	0	
NU-4	LI Sta. 24+88 to LI Sta. 28+48 Ramp A	Headwall 24+88 LI	352	38	28	1	Connect Existing Underdrain Sta. 24+88 RI	NU-27	RI Sta. 43+21 to RI Sta. 44+14 Ramp A	Catch Basin (ND-27)	88	5	0	0	
NU-5	LI Sta. 34+00 to LI Sta. 34+48 I-70	Ex. Underdrain at 34+00 LI	420	0	0	0		NU-28	RI Sta. 39+50 to RI Sta. 44+50 Ramp A	Catch Basin (ND-28)	337	48	0	0	Continuous at 39+50
NU-6	LI Sta. 344+58 to LI Sta. 349+98 I-70	Manhole 344+58 Left (ND-2)	540	0	34	0	Connect Existing Underdrain Sta. 344+58	NU-29	RI Sta. 42+00 to RI Sta. 44+50 Ramp A	Manhole (ND-29)	238	32	0	0	
NU-7	LI Sta. 950+04 to LI Sta. 952+24 I-70	Headwall 950+04 LI	220	0	32	1	Connect Existing Underdrain Sta. 950+04	NU-30	RI Sta. 44+50 Ramp A to LI Sta. 21+00 Ramp	Manhole (ND-29)	208	0	0	0	Connect to Tee from NU-29
NU-8	LI Sta. 953+60 I-70	Headwall 953+60 LI	0	0	20	1	Connect Existing Underdrain Sta. 953+60	NU-31	RI Sta. 44+50 Ramp A to RI Sta. 20+91 Ramp	Catch Basin (ND-28)	200	0	0	0	Connect to Tee from NU-28
NU-9	LI Sta. 28+48 to LI Sta. 32+36 Ramp A	Catch Basin (ND-20)	569	5	0	0	Continuous at 28+48	NU-32	RI Sta. 44+52 to RI Sta. 45+27 Ramp A	Catch Basin (ND-28)	70	5	0	0	
NU-10	RI Sta. 30+09 to RI Sta. 31+46 Ramp A	Catch Basin (ND-5)	145	5	0	0		NU-33	RI Sta. 45+34 Ramp A to RI Sta. 20+70 Ramp	Catch Basin (ND-30)	80	5	0	0	
NU-11	RI Sta. 31+50 to RI Sta. 32+29 Ramp A	Catch Basin (ND-5)	220	5	0	0		NU-34	RI Sta. 20+75 to LI Sta. 21+80 Ramp C	Catch Basin (ND-32)	107	5	0	0	
NU-12	LI Sta. 32+44 to LI Sta. 32+74 Ramp A	Catch Basin (ND-21)	25	5	0	0		NU-35	LI Sta. 22+55 to LI Sta. 22+42 Ramp C	Catch Basin (ND-35)	35	5	0	0	
NU-13	LI Sta. 32+78 to LI Sta. 33+42 Ramp A	Catch Basin (ND-21)	60	5	0	0		NU-36	LI Sta. 22+55 to LI Sta. 25+11 Ramp C	Catch Basin (ND-34)	247	5	0	0	Continuous at 25+11
NU-14	LI Sta. 33+42 to LI Sta. 35+00 Ramp A	Catch Basin (ND-19)	142	5	0	0	Tee at 34+07 LI	NU-37	LI Sta. 25+11 to LI Sta. 27+46 Ramp C	Catch Basin (ND-42)	228	5	0	0	Continuous at 25+11
NU-15	LI Sta. 34+07 to RI Sta. 38+61 Ramp A	Tee on NU-14	174	46	0	0		NU-38	LI Sta. 27+46 to LI Sta. 30+91 I-70	Ex. Underdrain 957+75 LI	135	0	0	0	Connect to Ex.
NU-16	RI Sta. 34+07 to RI Sta. 34+80 Ramp A	Catch Basin (ND-17)	67	5	0	0		NU-39	LI Sta. 30+91 to LI Sta. 31+35 Ramp C	Catch Basin (ND-42)	384	5	0	0	
NU-17	RI Sta. 34+87 to RI Sta. 35+80 Ramp A	Catch Basin (ND-15)	88	5	0	0		NU-40	LI Sta. 31+45 to LI Sta. 35+98 Ramp C	Ex. Underdrain Outlet 31+45 LI	450	5	0	0	Connect to Ex.
NU-18	RI Sta. 35+86 to RI Sta. 39+00 Ramp A	Catch Basin (ND-11)	292	44	0	0		NU-41	LI Sta. 35+91 to LI Sta. 39+81 I-70	Catch Basin (ND-39)	458	5	0	0	Automobile Entrance
NU-19	RI Sta. 39+07 to RI Sta. 39+60 Ramp A	Catch Basin (ND-19)	88	5	0	0		NU-42	LI Sta. 39+81 to LI Sta. 39+81 I-70	Catch Basin (ND-39)	83	0	0	0	Automobile Parking Lot
NU-20	RI Sta. 39+67 to RI Sta. 38+01 Ramp A	Catch Basin (ND-13)	88	5	0	0		NU-43	LI Sta. 39+81 to LI Sta. 39+81 I-70	Catch Basin (ND-37)	100	5	0	0	Automobile Parking Lot
NU-21	RI Sta. 38+11 to RI Sta. 39+50 Ramp A	Catch Basin (ND-10)	95	5	0	0	Continuous at 39+50	NU-44	LI Sta. 39+81 to LI Sta. 39+81 I-70	Catch Basin (ND-4)	118	5	0	0	Automobile Parking Lot
NU-22	RI Sta. 34+07 to RI Sta. 39+50 Ramp A	Manhole (ND-18)	440	0	35	0	Continuous at 39+50	NU-45	LI Sta. 39+81 to LI Sta. 39+81 I-70	Catch Basin (ND-9)	185	5	0	0	Automobile Parking Lot
NU-23	LI Sta. 39+00 to LI Sta. 40+50 Ramp A	Catch Basin (ND-23)	150	5	0	0		NU-46	LI Sta. 39+81 to LI Sta. 39+81 I-70	Headwall 945+09 LI	174	0	27	1	Automobile Exit Drive
								NU-47	LI Sta. 39+81 to LI Sta. 39+81 I-70	Headwall 945+09 LI (NU-46)	350	0	0	0	Automobile Exit Drive

Notes:

- All bends, tees, caps and other fittings to be included in bid price for project.
- Modify underdrain locations in automobile parking area if corresponding pavement alternate is not to be constructed.
- Do not construct underdrains in truck parking area if corresponding pavement alternate is not to be constructed.

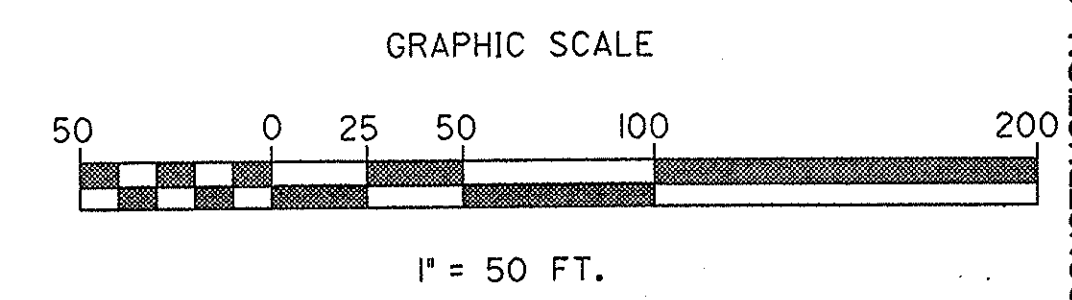
EASTBOUND UNDERDRAIN SUMMARY															
Number	Station to Station	Outlet	6" Type B Conduit (Perforated)	6" Conduit Type B (Non-Perforated)	6" Conduit Type F (Non-Perforated)	Outlet Headwall	Remarks	Number	Station to Station	Outlet	6" Type B Conduit (Perforated)	6" Conduit Type B (Non-Perforated)	6" Conduit Type F (Non-Perforated)	Outlet Headwall	Remarks
SU-1	RI Sta. 30+50 to RI Sta. 31+50 Ramp E	Headwall 31+50 RI Ramp E	100	0	18	1		SU-27	RI Sta. 45+00 to RI Sta. 48+52 Ramp F	Catch Basin (SD-22)	333	31	0	0	Continuous at 45+00
SU-2	RI Sta. 31+50 to RI Sta. 33+45 Ramp E	Headwall 31+50 RI Ramp E	200	0	0	0	Connect to SU-1	SU-28	RI Sta. 45+00 to RI Sta. 48+52 Ramp F	Catch Basin (SD-21)	265	49	0	0	Continuous at 45+00
SU-3	RI Sta. 33+48 to RI Sta. 38+35 Ramp E	Headwall 33+48 RI Ramp E	485	20	20	1		SU-29	RI Sta. 48+55 to RI Sta. 49+52 Ramp F	Catch Basin (SD-23)	92	5	0	0	
SU-4	RI Sta. 38+35 to RI Sta. 41+70 Ramp E	Headwall 38+35 RI Ramp E	335	50	20	1	Connect to Ex. I-70 Underdrain	SU-30	RI Sta. 49+55 to RI Sta. 50+52 Ramp F	Catch Basin (SD-25)	92	5	0	0	
SU-5	RI Sta. 41+75 to RI Sta. 45+50 Ramp E	Headwall 41+75 RI Ramp E	375	0	23	1		SU-31	RI Sta. 50+55 to RI Sta. 51+52 Ramp F	Catch Basin (SD-27)	92	5	0	0	
SU-6	LI Sta. 45+50 to LI Sta. 47+95 Ramp E	Headwall 45+50 LI Ramp E	247	0	35	1		SU-32	RI Sta. 51+55 to RI Sta. 52+01 Ramp F	Catch Basin (SD-29)	41	5	0	0	
SU-7	LI Sta. 48+00 to LI Sta. 49+10 Ramp E	Catch Basin (SD-2)	100	5	0	0		SU-33	RI Sta. 48+55 to RI Sta. 52+19 Ramp F	Catch Basin (SD-30)	372	5	0	0	
SU-8	LI Sta. 49+05 to LI Sta. 51+30 Ramp E	Catch Basin (SD-3)	215	5	0	0		SU-34	RI Sta. 48+55 to RI Sta. 52+01 Ramp F	Catch Basin (SD-29)	360	5	0	0	
SU-9	LI Sta. 51+35 to LI Sta. 53+60 Ramp E	Catch Basin (SD-4)	220	5	0	0	Continuous at 53+60	SU-35	RI Sta. 52+19 to RI Sta. 54+55 Ramp F	Catch Basin (SD-32)	157	5	0	0	
SU-10	LI Sta. 53+60 to LI Sta. 54+75 Ramp E	Catch Basin (SD-5)	105	5	0	0	Continuous at 53+60	SU-36	RI Sta. 54+55 to RI Sta. 54+55 Ramp F	Catch Basin (SD-32)	32	5	0	0	
SU-11	LI Sta. 54+75 to LI Sta. 59+95 Ramp E	Catch Basin (SD-5)	491	5	0	0		SU-37	RI Sta. 55+02 to RI Sta. 58+95 Ramp F	Catch Basin (SD-33)	182	5	0	0	
SU-12	LI Sta. 60+00 to LI Sta. 63+15 Ramp E	Headwall 60+00 LI Ramp E	290	0	25	1	Continuous at 63+15	SU-38	RI Sta. 57+02 to RI Sta. 58+90 Ramp F	Catch Basin (SD-40)	185	5	0	0	
SU-13	LI Sta. 63+15 to LI Sta. 63+92 Ramp E	Catch Basin (SD-6)	75	5	0	0	Continuous at 63+15	SU-39	RI Sta. 58+88 to RI Sta. 64+58 Ramp F	Catch Basin (SD-38)	565	5	0	0	
SU-14	RI Sta. 40+00 to RI Sta. 40+41 Ramp F	Catch Basin (SD-8)	52	5	0	0		SU-40	RI Sta. 64+52 to RI Sta. 72+40 Ramp F	Catch Basin (SD-48)	154	28	0	0	Connect Ex. Underdrain
SU-15	RI Sta. 40+40 to RI Sta. 41+00 Ramp F	Catch Basin (SD-10)	85	5	0	0		SU-41	RI Sta. 73+51 to RI Sta. 73+50 Ramp F	Ex. Underdrain Outlet	390	0	0	0	Connect to Ex. UD Outlet
SU-16	RI Sta. 41+00 to RI Sta. 41+40 Ramp F	Catch Basin (SD-11)	85	5	0	0		SU-42	RI Sta. 67+49 to RI Sta. 68+54 Ramp F	Catch Basin (SD-9)	157	5	0	0	Continuous at Sta. 67+49
SU-17	RI Sta. 42+00 to RI Sta. 42+59 Ramp F	Catch Basin (SD-13)	91	5	0	0		SU-43	RI Sta. 68+00 to RI Sta. 67+49 Ramp F	Catch Basin (SD-44)	155	5	0	0	Continuous at Sta. 67+49
SU-18	RI Sta. 41+55 to RI Sta. 43+00 Ramp F	Catch Basin (SD-14)	145	31	0	0		SU-44	RI Sta. 65+28 to RI Sta. 65+91 Ramp F	Catch Basin (SD-45)	87	5	0	0	Automobile Entrance
SU-19	RI Sta. 40+55 to RI Sta. 43+00 Ramp F	Catch Basin (SD-13)	247	49	0	0		SU-45	RI Sta. 64+52 to RI Sta. 65+28 Ramp F	Catch Basin (SD-46)	72	5	0	0	Connect to Tee at 62+42
SU-20	RI Sta. 43+01 to RI Sta. 43+97 Ramp F	Catch Basin (SD-13)	95	5	0	0	Continuous at 45+00	SU-46	RI Sta. 63+44 to RI Sta. 64+48 Ramp F	Catch Basin (SD-43)	100	5	0	0	Automobile Parking Lot
SU-21	RI Sta. 44+40 to RI Sta. 45+00 Ramp F	Catch Basin (SD-15)	95	5	0	0	Continuous at 45+00	SU-47	RI Sta. 62+42 to RI Sta. 63+38 Ramp F	Catch Basin (SD-42)	91	5	0	0	Continuous at 62+42
SU-22	RI Sta. 43+00 to RI Sta. 45+00 Ramp F	Catch Basin (SD-14)	200	0	0	0	Continuous at 45+00 Connect to Tee at 43+00	SU-48	RI Sta. 61+37 to RI Sta. 62+42 Ramp F	Catch Basin (SD-35)	102	5	0	0	Continuous at 62+42 Automobile Parking Lot
SU-23	RI Sta. 43+00 to RI Sta. 45+00 Ramp F	Catch Basin (SD-13)	200	0	0	0	Continuous at 45+00 Connect to Tee at 43+00	SU-49	RI Sta. 60+43 to RI Sta. 61+30 Ramp F	Catch Basin (SD-36)	86	5	0	0	Automobile Parking Lot
SU-24	RI Sta. 45+00 to RI Sta. 48+00 Ramp F	Catch Basin (SD-17)	95	5	0	0	Continuous at 45+00	SU-50	RI Sta. 59+84 to RI Sta. 60+40 Ramp F	Catch Basin (SD-37)	75	5	0	0	Automobile Parking Lot
SU-25	RI Sta. 48+05 to RI Sta. 47+37 Ramp F	Catch Basin (SD-19)	91	5	0	0		SU-51	RI Sta. 58+84 to RI Sta. 59+84 Ramp F	Catch Basin (SD-38)	236	5	0	0	Automobile Exit Drive
SU-26	RI Sta. 47+42 to RI Sta. 48+52 Ramp F	Catch Basin (SD-21)	92	5	0	0		SU-52	RI Sta. 344+53 to RI Sta. 344+53 I-70	Headwall 344+53 LI I-70	820	0	30	1	

WESTBOUND SITE STORM SEWER INLETS AND MANHOLES					WESTBOUND SITE STORM SEWER PIPE					
Number	Description	Station and Offset	Grate/Rim El.	Invert Info	Number	Upstream Structure	Downstream Structure	Pipe Size	Pipe Length	Pipe Slope
ND-1A	Half-Height Headwall	Ramp A Sta. 28+57.92, 47.9' LI		60" = 895.25						
ND-1	MH-3 (60" Dia.) with flat slab top	Ramp A Sta. 28+43.83, 27.0' RI	905.50	60" = 895.75	NP-1	ND-1	ND-1A	60"	194	0.0025
ND-2	MH-3 (60" Dia.) with flat slab top	I-70 Sta. 944+52.12, 91.8' LI	905.00	30" = 898.50	NP-2	ND-2	ND-1	60"	284	0.0025
ND-3	Inlet Control Structure	I-70 Sta. 945+84.32, 104.2' LI		60" = 895.50	NP-3	ND-3	ND-2	60"	130	0.004
ND-4	Inlet Control Structure	Ramp A Sta. 30+72.39, 145.1' RI		60" = 895.00	NP-4	ND-4	ND-2	30"	67	0.007
ND-5	Half-Height Headwall	Ramp A Sta. 31+74.17, 81.2' RI	905.85	15" = 902.35	NP-5	ND-5	ND-5A	15"	26	0.013
ND-5A	Half-Height Headwall	Ramp A Sta. 31+35.48, 94.9' RI		15" = 902.00	NP-6	ND-6	ND-7	15"	65	0.011
ND-6	CB-3	I-70 Sta. 944+42.92, 277.2' LI	905.83	15" = 902.40	NP-7	ND-7	ND-8	15"	98	0.015
ND-7	CB-3	I-70 Sta. 947+39.89, 259.0' LI	905.83	15" = 902.40	NP-8	ND-8	ND-9	15"	43	0.016
ND-8	CB-3	I-70 Sta. 947+32.61, 227.8' LI	905.37	15" = 901.39	NP-9	ND-9	ND-8A	15"	43	0.016
ND-9	CB-3	I-70 Sta. 946+93.19, 200.9' LI	905.00	15" = 900.50	NP-9	ND-9	ND-8A	18"	42	0.012
ND-8A	Half-Height Headwall	I-70 Sta. 947+18.92, 167.6' LI		15" = 900.00						
ND-10	CB-6	Ramp A Sta. 38+10, 82.0' RI	907.86	15" = 905.15	NP-10A	ND-10	ND-10	12" Slotted	25	match pvmnt
ND-11	CB-6	Ramp A Sta. 38+86, 82.0' RI	907.35	12" = 903.65	NP-10	ND-10	ND-12	12" Slotted	98	0.016
					NP-11A	ND-11	ND-12	12" Slotted	25	match pvmnt
ND-12	MH-3 (48" Dia.) with flat slab top	Ramp A Sta. 36+86, 95.0' RI	907.61	12" = 903.66	NP-11	ND-11	ND-12	12" Slotted	25	match pvmnt
ND-13	CB-6	Ramp A Sta. 35+88, 82.0' RI	906.85	12" = 903.36	NP-12	ND-12	ND-14	18"	97	0.005
ND-14	MH-3 (48" Dia.) with flat slab top	Ramp A Sta. 35+86, 95.0' RI	907.11	12" = 903.36	NP-12	ND-12	ND-14	18"	97	0.005
ND-15	CB-6	Ramp A Sta. 34+86, 82.0' RI	906.36	12" = 902.86	NP-13A	ND-13	ND-13	12" Slotted	25	match pvmnt
					NP-13	ND-13	ND-14	12"	10	0.020
ND-16	MH-3 (48" Dia.) with flat slab top	Ramp A Sta. 34+86, 95.0' RI	906.82	12" = 902.86	NP-14	ND-14	ND-16	21"	97	0.005
ND-17	CB-6	Ramp A Sta. 34+07, 82.0' RI	905.97	12" = 902.70	NP-15A	ND-15	ND-15	12" Slotted	25	match pvmnt
ND-18	MH-3 (48" Dia.) with flat slab top	Ramp A Sta. 34+07, 95.0' RI	907.20	12" = 902.44	NP-15	ND-15	ND-16	12"	10	0.020
ND-19	CB-3	Ramp A Sta. 33+50, 10.0' LI	905.05	15" = 902.47	NP-16	ND-16	ND-18	24"	76	0.005
ND-20	CB-3	Ramp A Sta. 32+39.5, 10.0' LI	904.51	15" = 901.50	NP-17A	ND-17	ND-17	12" Slotted	25	match pvmnt
ND-21	CB-3	Ramp A Sta. 32+75.74, 10.0' LI	904.28	15" = 901.25	NP-17	ND-17	ND-18	12"	10	0.027
ND-22	MH-3 (48" Dia.) with flat slab top	Ramp A Sta. 33+08, 119.6' RI	908.50	24" = 900.88	NP-18	ND-18	ND-22	24"	99	0.009
ND-22A	Half-Height Headwall	Ramp A Sta. 32+13.4, 165.3' RI		24" = 901.84	NP-18	ND-18	ND-22	24"	99	0.009
ND-23	CB-3	Ramp A Sta. 40+50, 10.0' LI	906.46	15" = 901.45	NP-19	ND-19	ND-21	15"	70	0.014
ND-23A	Half-Height Headwall	Ramp A Sta. 40+50, 10.0' LI		15" = 901.25	NP-20	ND-20	ND-21	30"	73	0.010
ND-24	CB-6	Ramp A Sta. 41+76, 82.0' RI	907.54	15" = 904.83	NP-21	ND-21	ND-22	18"	130	0.005
ND-25	CB-6	Ramp A Sta. 43+15, 82.0' RI	907.04	12" = 904.33	NP-22	ND-22	ND-22A	24"	104	0.006
ND-26	MH-3 (48" Dia.) with flat slab top	Ramp A Sta. 43+15, 89.0' RI	907.30	12" = 903.51	NP-23	ND-23	ND-23A	15"	24	0.009
ND-27	CB-6	Ramp A Sta. 44+15, 82.0' RI	906.55	15" = 902.68	NP-24	ND-24	ND-26	12" Slotted	25	match pvmnt
ND-28	CB-2 Modified	Ramp A Sta. 44+50, 82.0' RI	906.37	15" = 902.27	NP-25	ND-25	ND-26	12" Slotted	112	0.015
ND-29	MH-3 (48" Dia.) with flat slab top	Ramp A Sta. 44+50, 89.0' RI	906.64	15" = 903.51	NP-26	ND-26	ND-28	12" Slotted	10	0.070
ND-30	CB-6	Ramp A Sta. 45+33, 82.0' RI	906.78	12" = 903.53	NP-27	ND-27	ND-27	12" Slotted	25	match pvmnt
ND-31	MH-3 (48" Dia.) with flat slab top	Ramp A Sta. 45+33, 89.0' RI	907.05	15" = 903.53	NP-28	ND-28	ND-28	12" Slotted	25	match pvmnt
ND-32	CB-6	Ramp C Sta. 20+74, 8.1' RI	907.26	15" = 903.78	NP-29	ND-29	ND-31	16"	10	0.014
ND-33	MH-3 (60" Dia.) with flat slab top	Ramp C Sta. 20+74, 4.9' LI	907.55	12" = 903.51	NP-30A	ND-30	ND-30	12" Slotted	25	match pvmnt
ND-34	CB-3	Ramp C Sta. 22+53, 10' LI	908.15	15" = 903.53	NP-31	ND-31	ND-33	15"	10	0.014
ND-35	CB-3	Ramp C Sta. 22+00, 10' LI	907.73	15" = 904.85	NP-32	ND-32	ND-33	15"	9	0.014
ND-36	MH-3 (60" Dia.) with flat slab top	Ramp C Sta. 22+00, 30' RI	910.50	30" = 900.44	NP-33	ND-33	ND-36	30"	128	0.003
ND-37	CB-3	I-70 Sta. 950+292.74, 297.1' LI	906.88	30" = 900.44	NP-34	ND-34	ND-36	30"	47	0.005
ND-38	CB-3	I-70 Sta. 951+268.11, 272.2' LI	906.22	30" = 900.44	NP-35	ND-35	ND-36	15"	36	0.084
ND-39	CB-3	I-70 Sta. 951+281.28, 238.0' LI	906.97	30" = 900.44	NP-36	ND-36	ND-36	15"	88	0.011
ND-40	MH-3 (60" Dia.) with flat slab top	I-70 Sta. 952+72.06, 215.1' LI	907.40	30" = 900.44	NP-37	ND-37	ND-38	15"	61	0.010
ND-40A	Half-Height Headwall	I-70 Sta. 952+60.56, 160.9' LI		30" = 900.44	NP-38	ND-38	ND-38	15"	29	0.010
ND-41	WC-4 Masonry Collar	I-70 Sta. 953+50, 64' LI		24" = 902.33	NP-39	ND-39	ND-41	24"	32	0.010
ND-41A	Half-Height Headwall	I-70 Sta. 953+50, 37' LI		24" = 902.00	NP-40	ND-40	ND-41A	36"	54	0.003
ND-42	Half-Height Headwall	Ramp C Sta. 27+46.52, 10.0' LI	908.79	15" = 907.00	NP-41	ND-41	ND-42A	15"	22	0.006
ND-42A	Half-Height Headwall	Ramp C Sta. 27+70.1, 19.4' LI		15" = 907.00	NP-42	ND-42	ND-42A	15"	22	0.006



LEGEND

- ASymmetrical High Mast Lighting
4-400 WATT LUMINAIRES
TYPE III DISTRIBUTION
- SYmmetrical High Mast Lighting
6-400 WATT LUMINAIRES
TYPE V DISTRIBUTION
- S2G KIM LIGHTING *IA/STL2/400MH480/CC-P/TSP
400 WATT METAL HALIDE FULL CUTOFF LIGHT FIXTURE ON
20' SQUARE POLE WITH NATURAL ALUMINUM CLEAR ANODIZED
FINISH AND TYPE II DISTRIBUTION
- S2E KIM LIGHTING *IA/STX2/750PMH480/CC-P/6S
750 WATT METAL HALIDE FULL CUTOFF LIGHT FIXTURE ON
40' SQUARE POLE WITH NATURAL ALUMINUM CLEAR ANODIZED
FINISH AND TYPE II DISTRIBUTION
- S4D KIM LIGHTING *IA/STX4/750PMH480/CC-P/6S
750 WATT METAL HALIDE FULL CUTOFF LIGHT FIXTURE ON
40' SQUARE POLE WITH NATURAL ALUMINUM CLEAR ANODIZED
FINISH AND TYPE IV DISTRIBUTION
- S2B KIM LIGHTING *IA/STL4/400MH480/CC-P/TSP
400 WATT METAL HALIDE FULL CUTOFF LIGHT FIXTURE ON
20' SQUARE POLE WITH NATURAL ALUMINUM CLEAR ANODIZED
FINISH AND TYPE IV DISTRIBUTION
- S2A KIM LIGHTING *ISA/ST5/175MH277/CC-P/TDP
175 WATT METAL HALIDE FULL CUTOFF LIGHT FIXTURE ON
14' SQUARE POLE WITH NATURAL ALUMINUM CLEAR ANODIZED
FINISH AND TYPE V DISTRIBUTION
- o+o GROUND MOUNTED LIGHT - SEE LANDSCAPING PLANS
2-100 WATT METAL HALIDE LUMINAIRES
- PULL BOX
- DIRECT BURIED DUCT CABLE PER ODOT ITEM 725.03
AND ODOT ITEM 625.14
- CABLE IN CONDUIT - CONDUIT PER ODOT ITEM 725.05
TYPE DB AND CABLE PER ODOT ITEM 725.02 AT THE
SIZE SHOWN ON THE PLANS.
- CCTV 2" CONDUIT FOR CCTV SECURITY CAMERA
- TYPICAL POLE IDENTIFICATION:
STATION OFFSET FROM
BASELINE OR CENTERLINE
- CIRCUIT NUMBER
- TYPICAL CIRCUIT IDENTIFICATION:
PANEL NAME
SL(EAST)
#4 AWG
WIRE SIZE



CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT
OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL & STRUCTURAL
SRA, INC.
SITING
KZF DESIGN
LANDSCAPE ARCHITECTURE
KIRZELMAN KLINE

REVISIONS		
NO.	DATE	DESCRIPTION

FOR:
OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
WEST RAMPS - LIGHTING AND
ELECTRIC PLAN

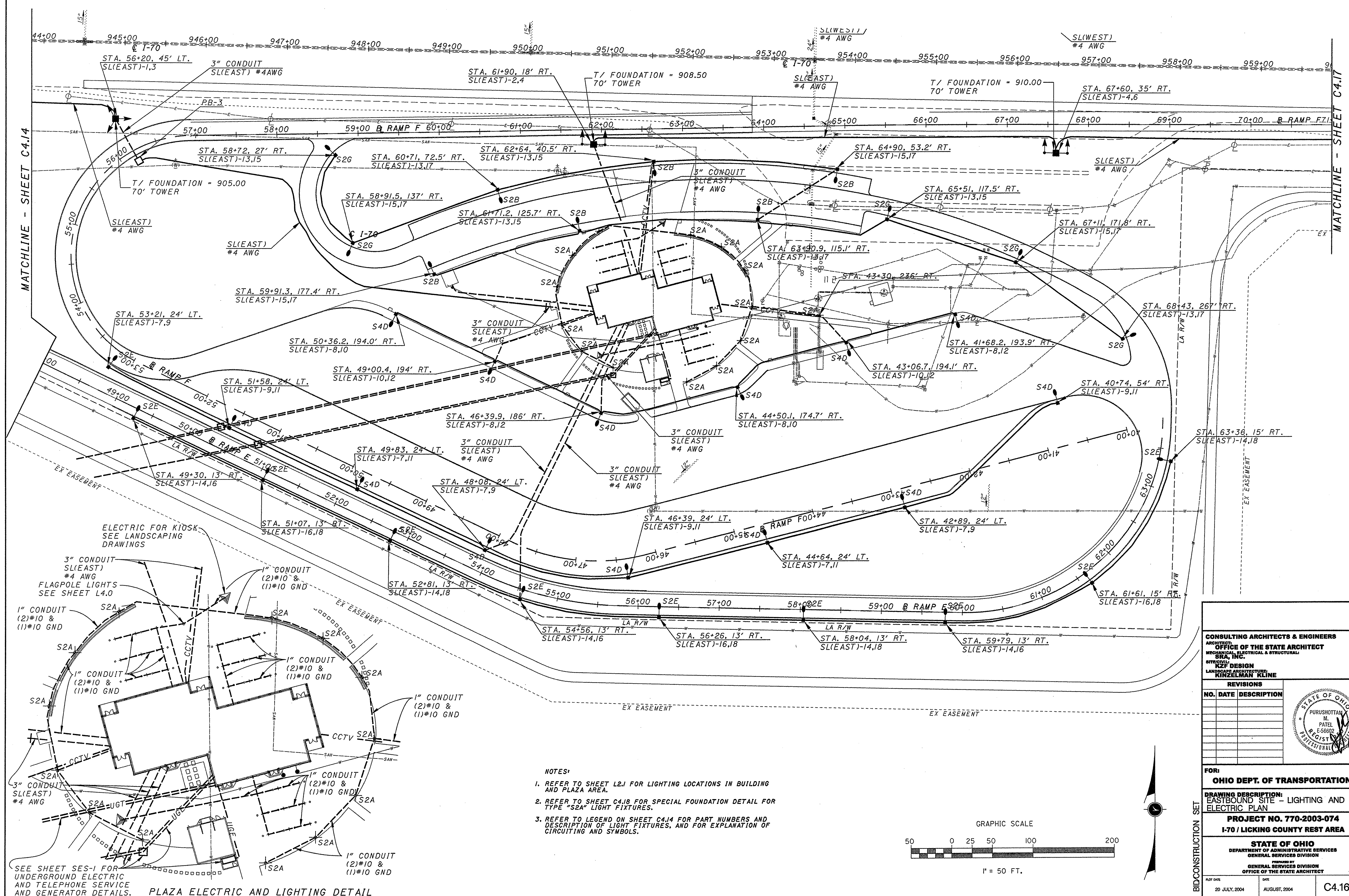
PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

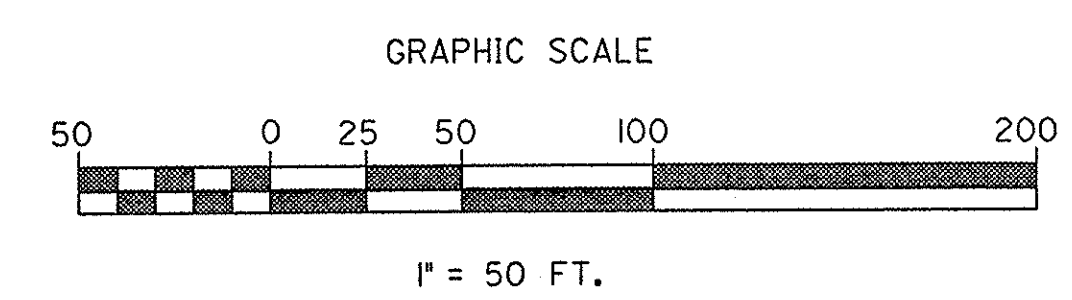
DATE 20 JULY, 2004	DATE AUGUST, 2004	C4.14
-----------------------	----------------------	-------

BID/CONSTRUCTION SET

\\drawing\c04\685244.dgn 07/20/2004 10:15:15 AM



- NOTES:**
1. REFER TO SHEET L2.1 FOR LIGHTING LOCATIONS IN BUILDING AND PLAZA AREA.
 2. REFER TO SHEET C4.18 FOR SPECIAL FOUNDATION DETAIL FOR TYPE "S2A" LIGHT FIXTURES.
 3. REFER TO LEGEND ON SHEET C4.14 FOR PART NUMBERS AND DESCRIPTION OF LIGHT FIXTURES, AND FOR EXPLANATION OF CIRCUITING AND SYMBOLS.



CONSULTING ARCHITECTS & ENGINEERS
OFFICE OF THE STATE ARCHITECT
 MECHANICAL, ELECTRICAL & STRUCTURAL
SRA, INC.
 SITE DESIGN
 LANDSCAPE ARCHITECTURE
KINZELMAN KLINE

REVISIONS		
NO.	DATE	DESCRIPTION

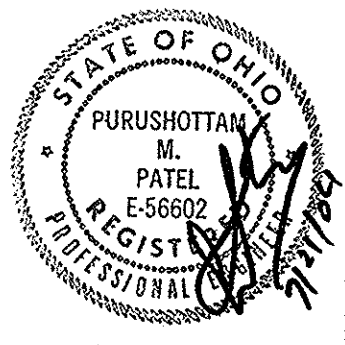
FOR:
OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
 EASTBOUND SITE - LIGHTING AND ELECTRIC PLAN

PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

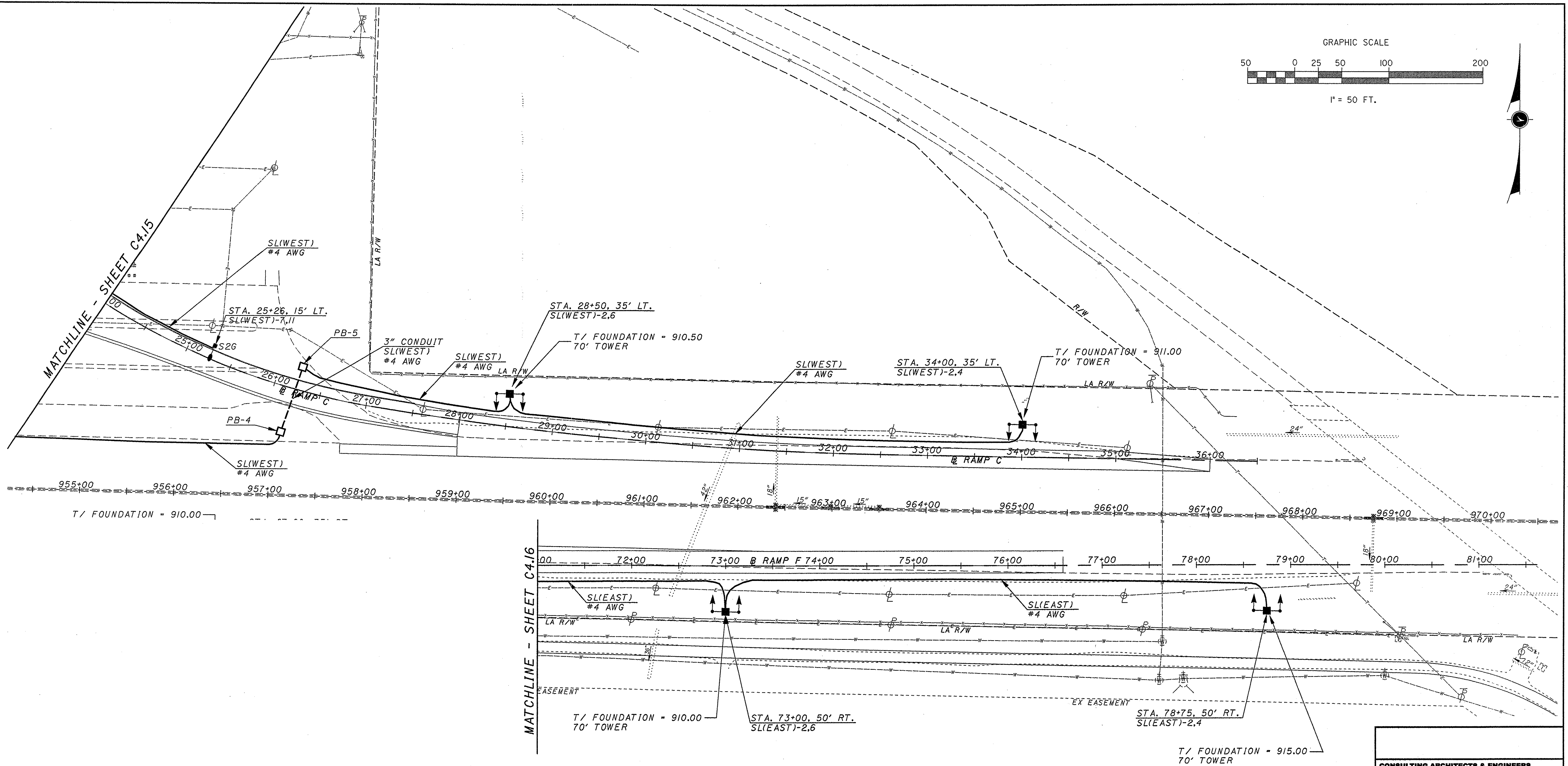
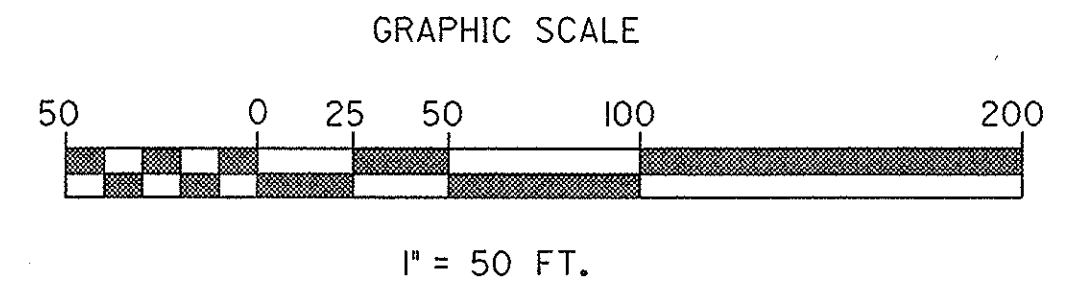
STATE OF OHIO
 DEPARTMENT OF ADMINISTRATIVE SERVICES
 GENERAL SERVICES DIVISION
 PROVIDED BY
 OFFICE OF THE STATE ARCHITECT

PLOT DATE 20 JULY, 2004	DATE AUGUST, 2004	C4.16
----------------------------	----------------------	--------------



SEE SHEET SES-1 FOR UNDERGROUND ELECTRIC AND TELEPHONE SERVICE AND GENERATOR DETAILS.

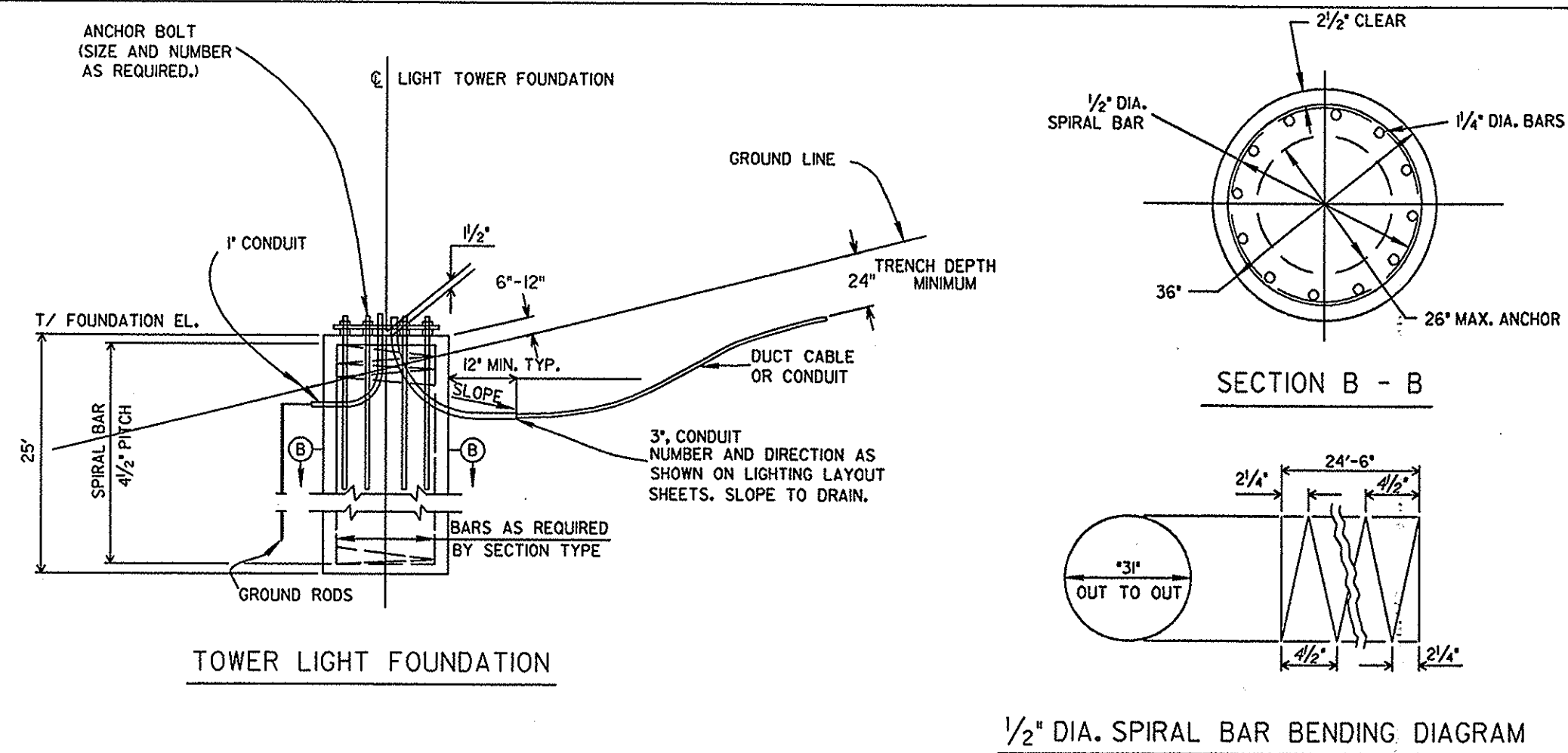
PLAZA ELECTRIC AND LIGHTING DETAIL



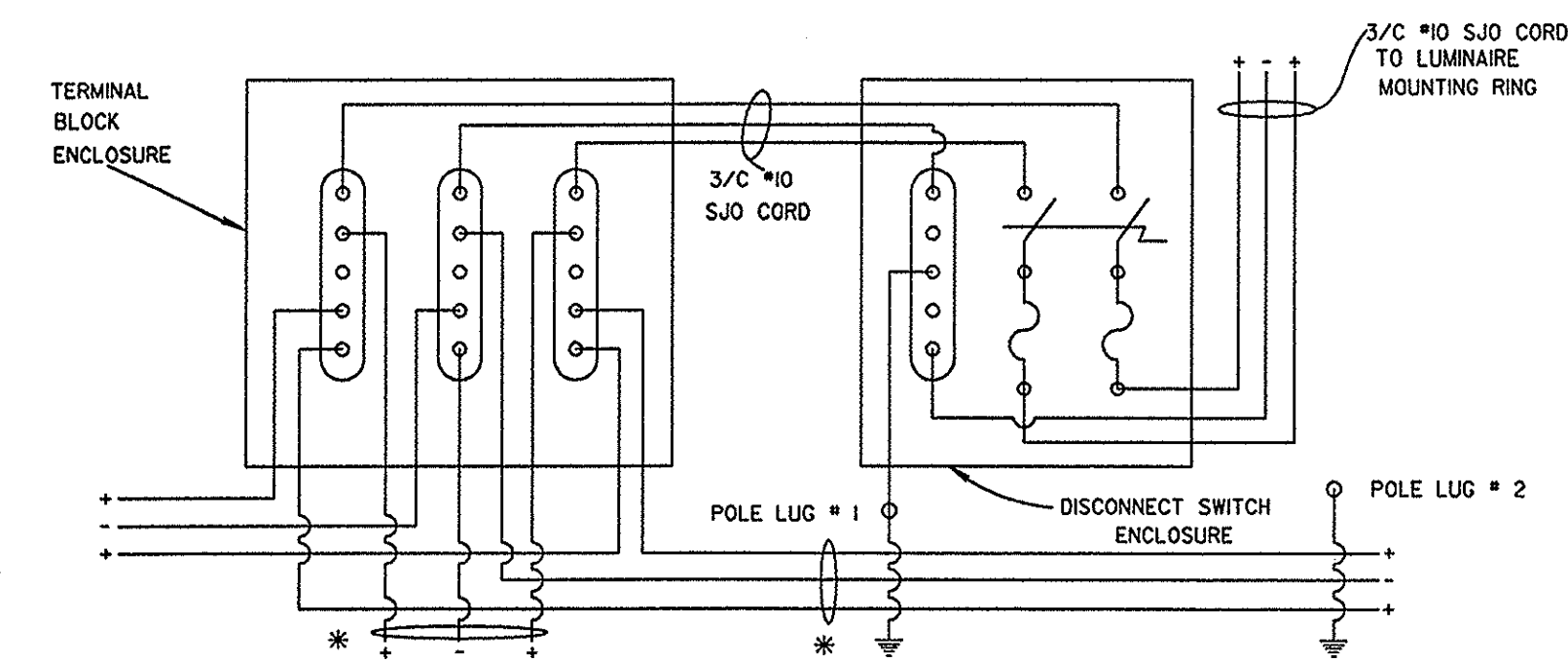
NOTES:
1. REFER TO LEGEND ON SHEET C4.14 FOR PART NUMBERS AND DESCRIPTION OF LIGHT FIXTURES, AND FOR EXPLANATION OF CIRCUITING AND SYMBOLS.

CONSULTING ARCHITECTS & ENGINEERS ARCHITECT: OFFICE OF THE STATE ARCHITECT MECHANICAL, ELECTRICAL & STRUCTURAL: SRA, INC. SITE/CIVIL: KZF DESIGN LANDSCAPE ARCHITECTURE: KINZELMAN KLINE																																
REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>			NO.	DATE	DESCRIPTION																											
NO.	DATE		DESCRIPTION																													
FOR: OHIO DEPT. OF TRANSPORTATION DRAWING DESCRIPTION: EAST RAMP - LIGHTING AND ELECTRIC PLAN PROJECT NO. 770-2003-074 I-70 / LICKING COUNTY REST AREA																																
PREPARED BY: STATE OF OHIO DEPARTMENT OF ADMINISTRATIVE SERVICES GENERAL SERVICES DIVISION OFFICE OF THE STATE ARCHITECT PLOT DATE: 20 JULY, 2004 DATE: AUGUST, 2004 C4.17																																

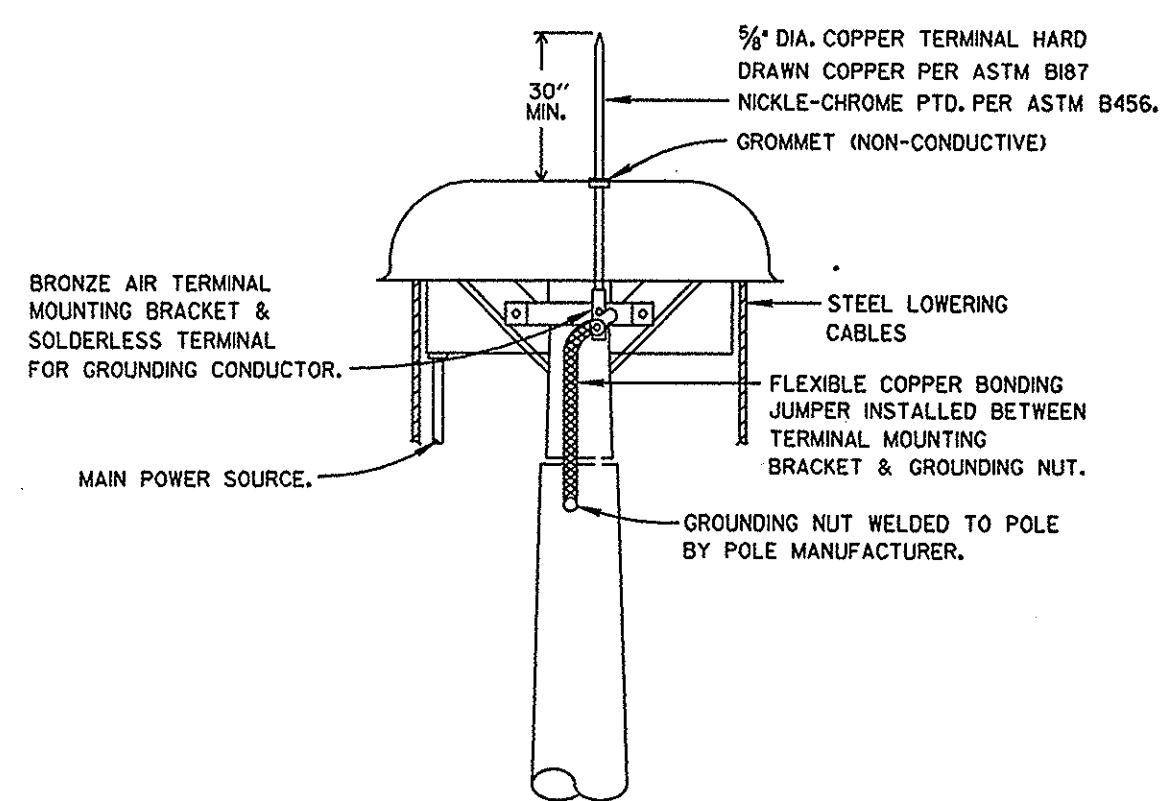
BID/CONSTRUCTION SET



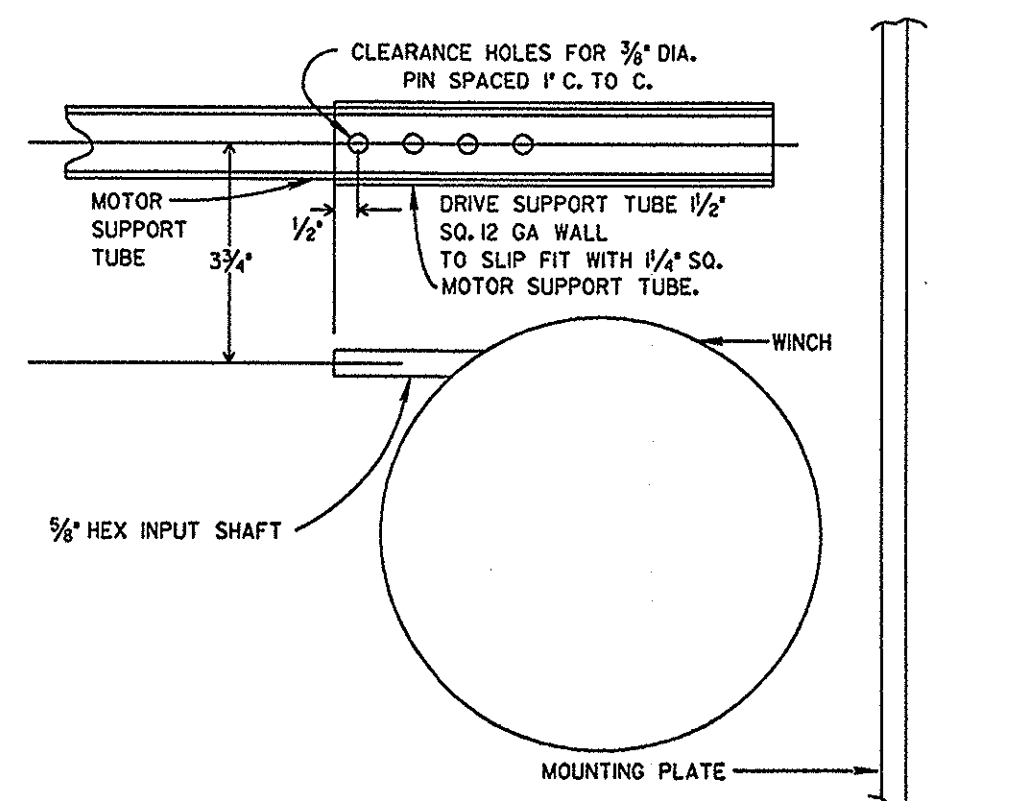
- ### NOTES
- ALL MATERIALS AND WORK SHALL BE IN ACCORDANCE WITH ITEM 625 AND ALL APPLICABLE PARAGRAPHS AND SUBSECTIONS.
 - FOUNDATION DEPTH BASED ON SOIL ANALYSIS. IF SOLID ROCK IS ENCOUNTERED BEFORE REACHING REQUIRED DEPTH, THE REMAINING FOUNDATION DEPTH MAY BE DECREASED BY 50%.
 - ANCHOR BOLT SIZE AND SPACING TO FIT MOUNTING PLATE SUPPLIED WITH TOWER. BOLT CIRCLE SHALL BE EQUAL TO OR LESS THAN THE MAXIMUM BOLT CIRCLE SHOWN. THE MINIMUM LENGTH ANCHOR BOLTS SHALL BE 60" AND THE BOLTS SHALL HAVE EITHER A 6" "L" BEND OR A 5"x5" PLATE ON THE EMBEDDED END.
 - FOUR STEEL CHANNELS, TEE OR ANGLE SPACERS, WEIGHING APPROXIMATELY 0.80 LBS. PER FOOT OF SPACER SHALL BE PROVIDED FOR EACH SPIRAL UNIT. THEY SHALL BE EQUALLY SPACED ALONG THE PERIPHERY OF THE COIL. THE NUMBER OF TURNS OF THE NO. 4 SPIRAL BAR SHALL INCLUDE A FULL UNPITCHED TURN AT EACH END.
 - CONCRETE SHALL BE AS PER 499, CLASS "C".
 - 2 GROUND RODS FOR EACH FOUNDATION ARE REQUIRED AND SHALL BE IN ACCORDANCE WITH ITEM 725J6.
 - CONDUITS IN THE FOUNDATION SHALL CONFORM TO ITEMS 625 AND 725. THE FOUNDATION CONDUIT SHALL BE OF THE SAME MATERIAL AS THAT USED TO PROTECT THE CIRCUIT EXTENSION BEYOND THE FOUNDATION.



TOWER WIRING DETAILS

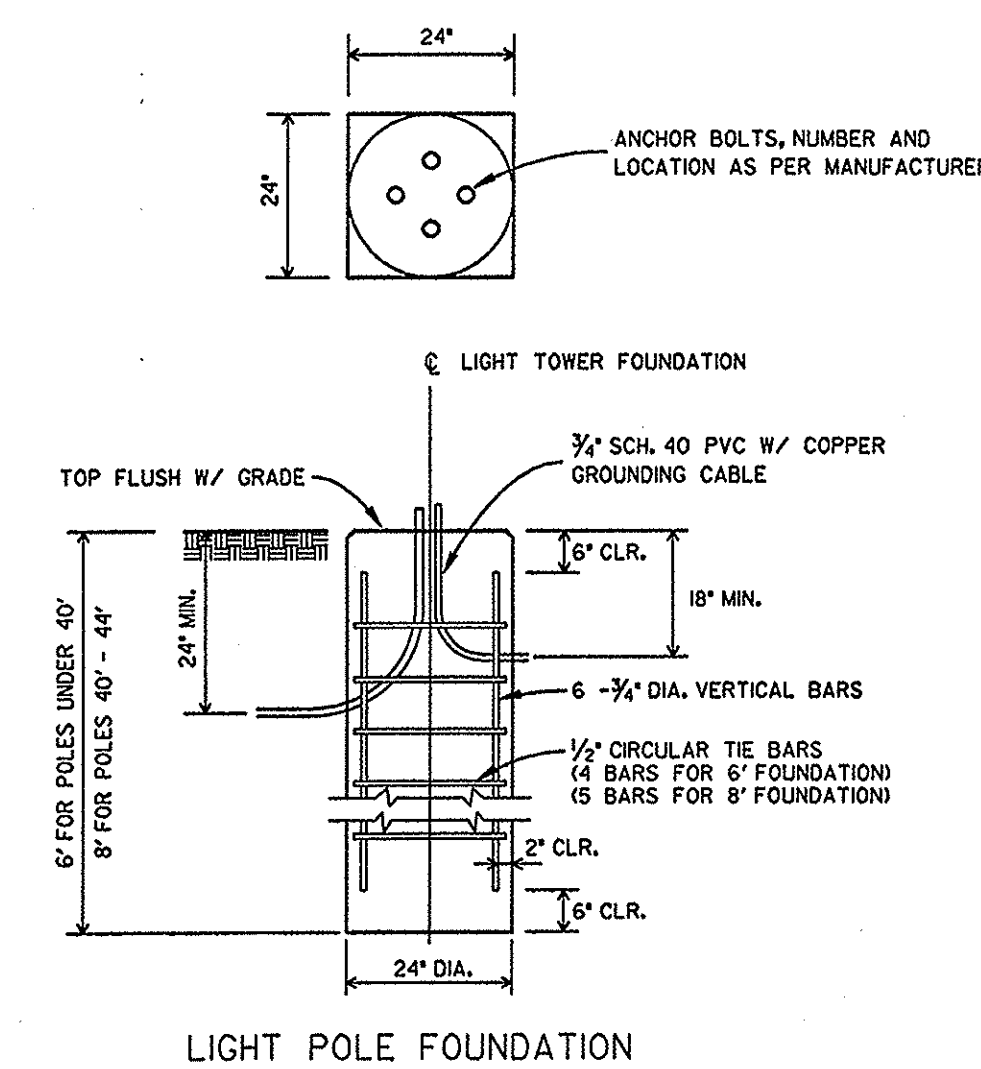


LIGHTNING PROTECTION SYSTEM



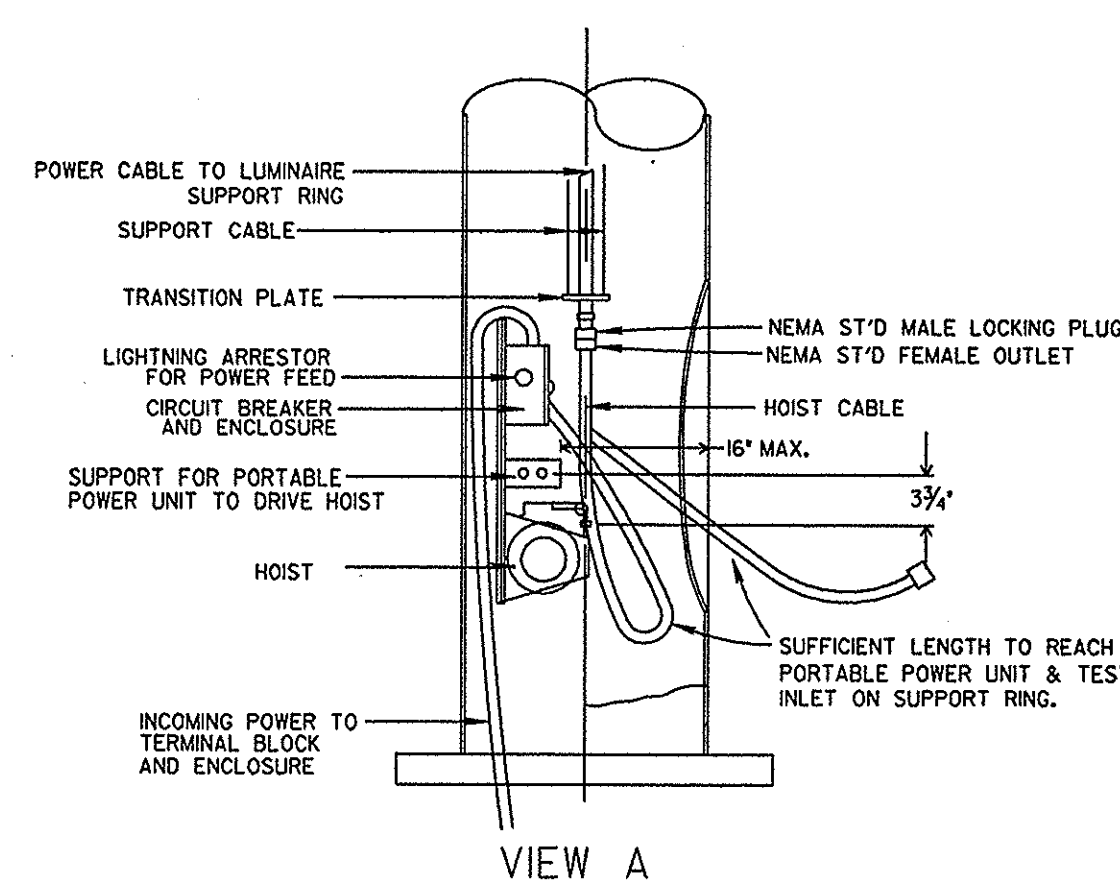
PORTABLE POWER UNIT DETAILS

- ### NOTES
- MOTOR SUPPORT TUBE MAY BE 1/4" SQ. OR 1 1/2" SQ. TO MATE ON THE INSIDE OR OUTSIDE OF DRIVE SUPPORT TUBE.
 - THE DRIVE ASSEMBLY SHALL HAVE SUFFICIENT OUTPUT TORQUE TO HANDLE THE PAYLOAD. MINIMUM DRIVING TORQUE SHALL BE 40 FT.-LBS. THE DRIVE SYSTEM SHALL INCLUDE A TORQUE LIMITER OF A SIZE AND RATING AS RECOMMENDED BY THE MANUFACTURER TO PREVENT OVER LOADING.
 - ELECTRICAL CONNECTOR ON FLEXIBLE POWER CORDS AND SUPPORT RING SHALL CONFORM TO NEMA STANDARD PIN CONFIGURATIONS FOR LOCKING TYPE CONNECTORS AND BE RATED FOR 20 AMPERES FOR 480 VOLT CIRCUITS AND 30 AMPERES FOR 250 VOLT CIRCUITS.
 - HANDHOLES SHALL BE LOCATED ON THE SIDE OF THE POLE OPPOSITE THE ROADWAY FROM WHICH THE TOWER IS STATIONED.
 - UNLESS OTHERWISE SPECIFIED IN THE PLANS, ALL LUMINAIRES WITH ASYMMETRIC DISTRIBUTIONS SHALL BE INSTALLED SO THE "ARROW" OR "STREET SIDE" DESIGNATION ON THE OPTICAL ASSEMBLY IS POSITIONED PERPENDICULAR TO THE CENTERLINE OR BASELINE OF THE PAVEMENT FROM WHICH THE TOWER IS STATIONED.

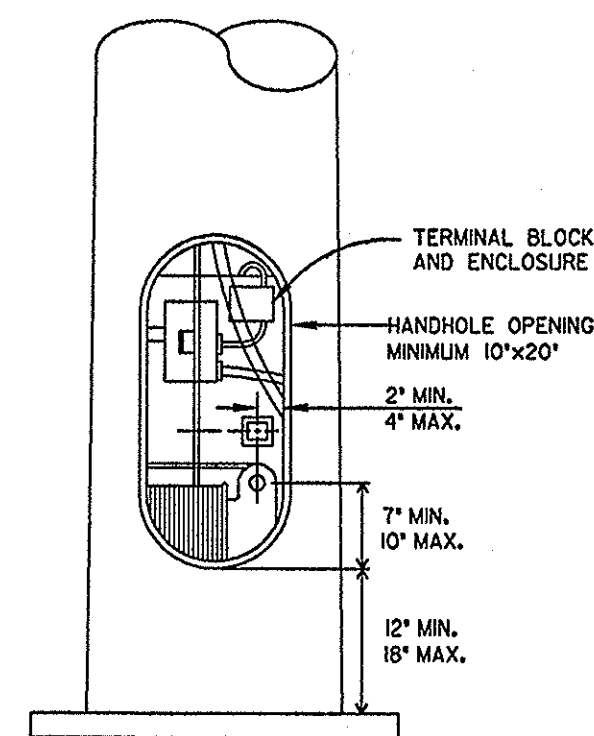


LIGHT POLE FOUNDATION

- ### NOTES
- CONCRETE TO BE CLASS "C" AS PER ITEM 499.
 - SUPPLY 1 GROUND ROD PER POLE. GROUND ROD AND INSTALLATION PER ITEM 725J6.
 - NO. 4 AWG STANDARD INSULATED COPPER GROUND CABLE SHALL BE USED. EXOTHERMICALLY WELD GROUND CABLE TO GROUND ROD. RUN FREE END THROUGH 3/4" CONDUIT AND CONNECT TO POLE BASE AS PER MANUFACTURER'S DETAILS. USE 2 COATS OF INSULATING VARNISH OVER EXOTHERMIC WELD.

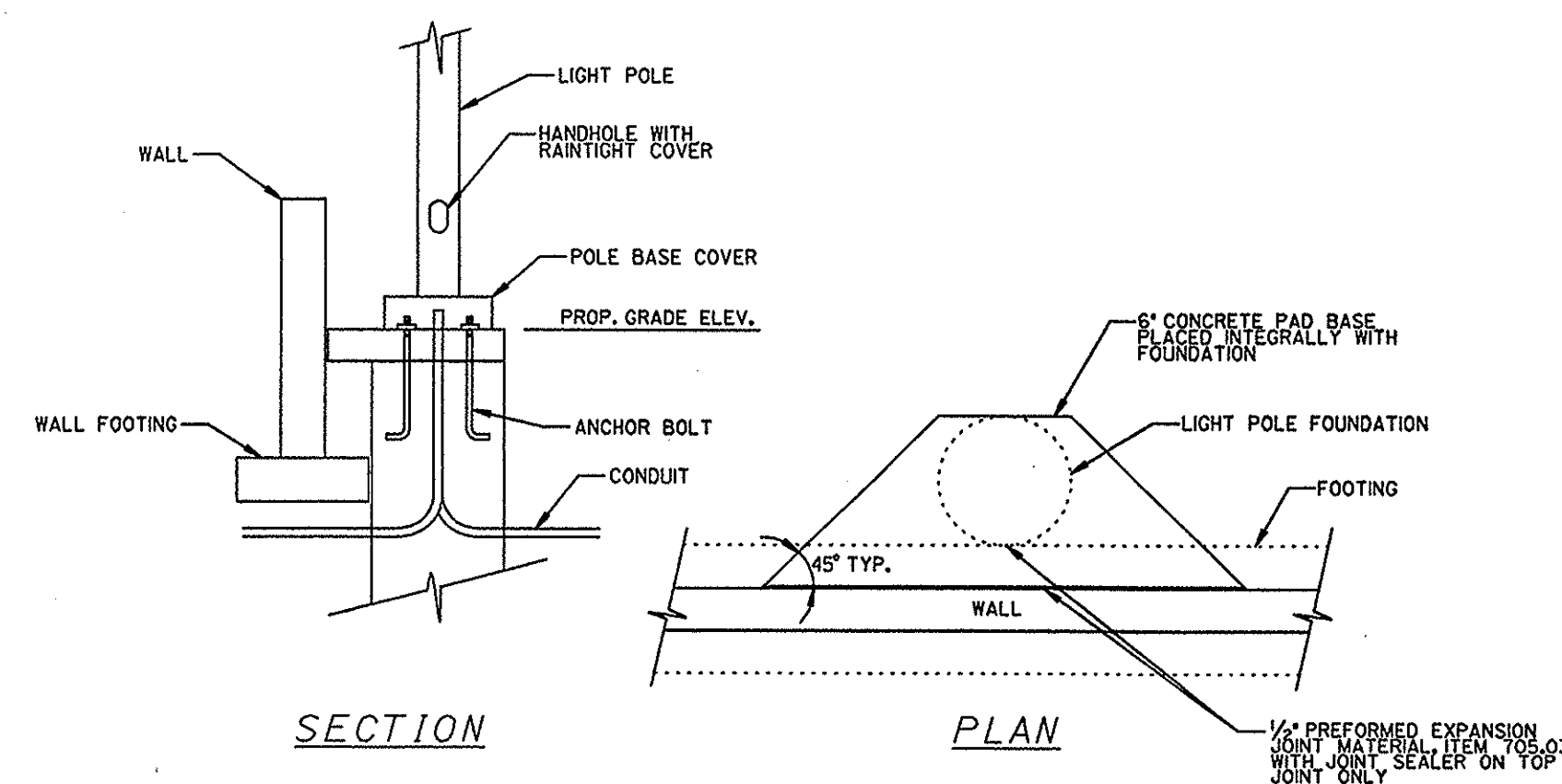


VIEW A

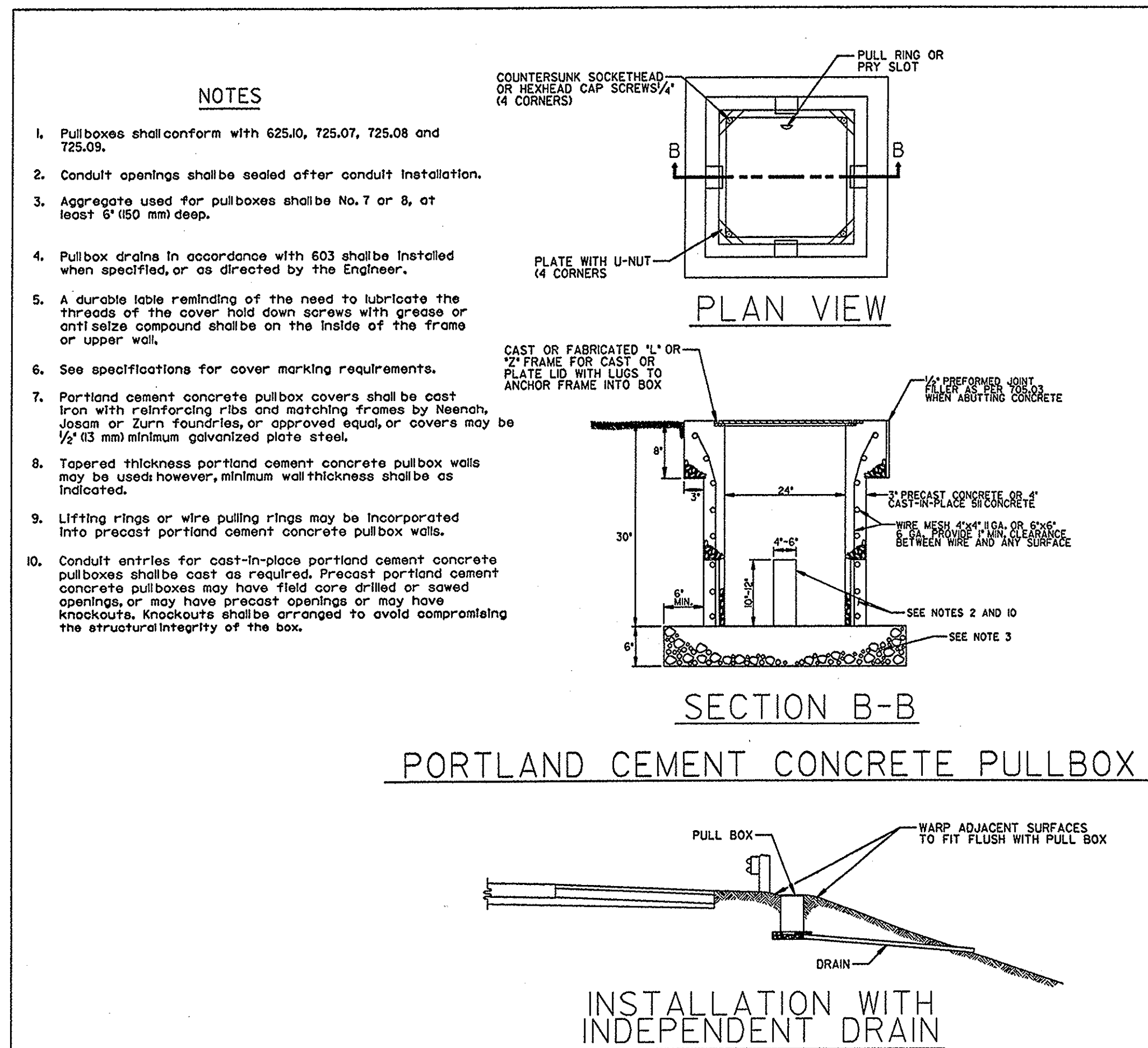


VIEW B

POLE BASE DETAILS



TYPE "S2A" POLE BASE DETAIL ADJACENT TO WALL



PORTLAND CEMENT CONCRETE PULLBOX

CONSULTING ARCHITECTS & ENGINEERS
OFFICE OF THE STATE ARCHITECT
 MECHANICAL, ELECTRICAL & STRUCTURAL
SRA, INC.
 1227 DESIGN
 LANDSCAPE ARCHITECTURE
KINZELMAN KLINE

REVISIONS		
NO.	DATE	DESCRIPTION

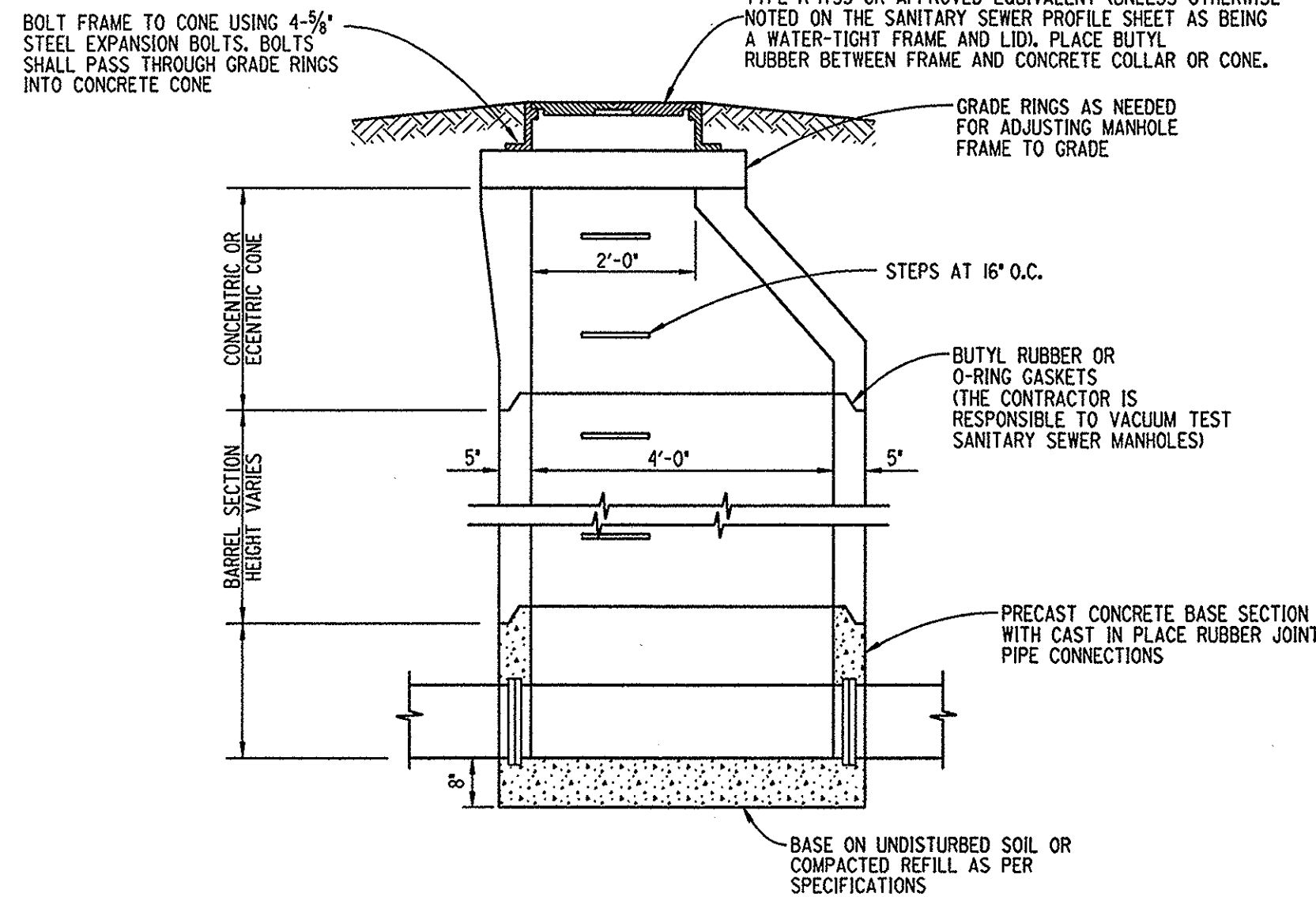
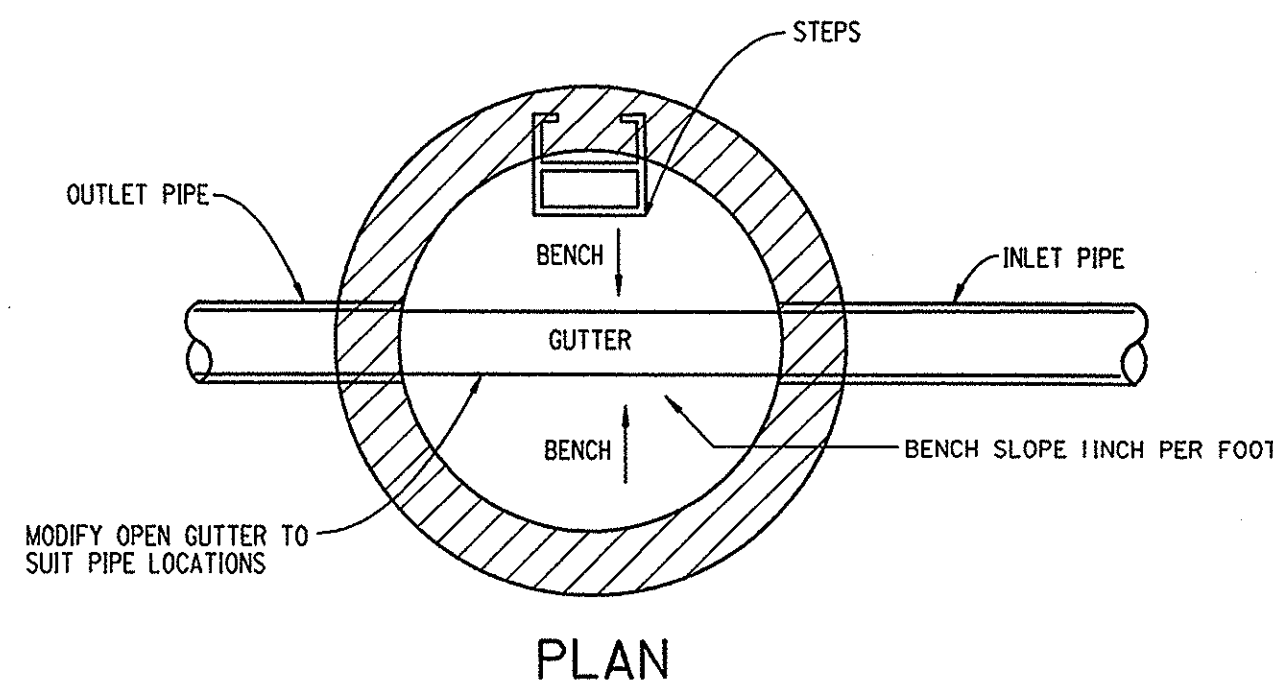
FOR:
OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
 DETAILS - ELECTRICAL DETAILS

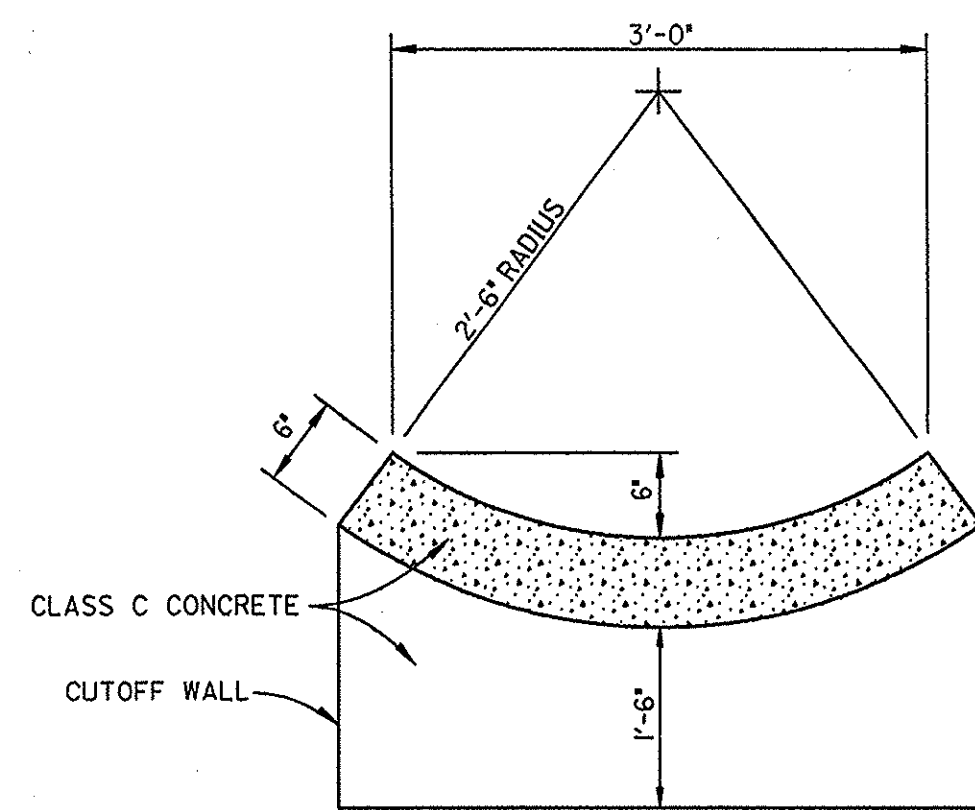
PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
 DEPARTMENT OF ADMINISTRATIVE SERVICES
 GENERAL SERVICES DIVISION
 PREPARED BY
 OFFICE OF THE STATE ARCHITECT

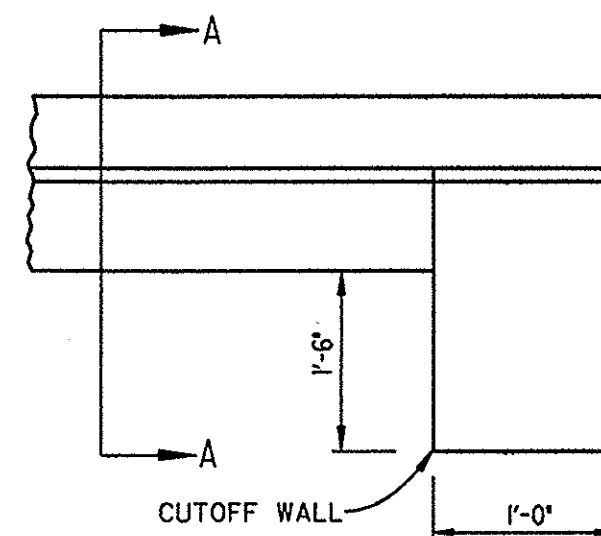
PLOT DATE: 20 JULY, 2004
 DATE: AUGUST, 2004
 C4.18



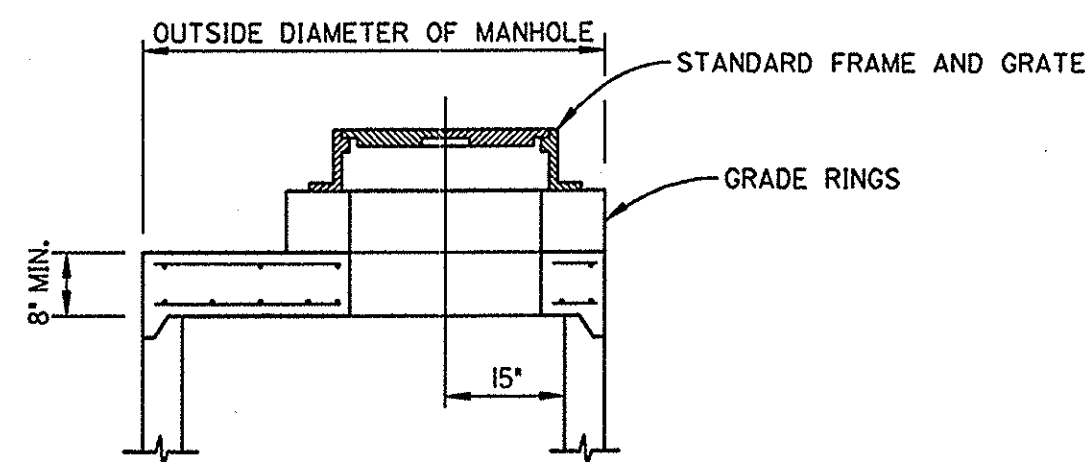
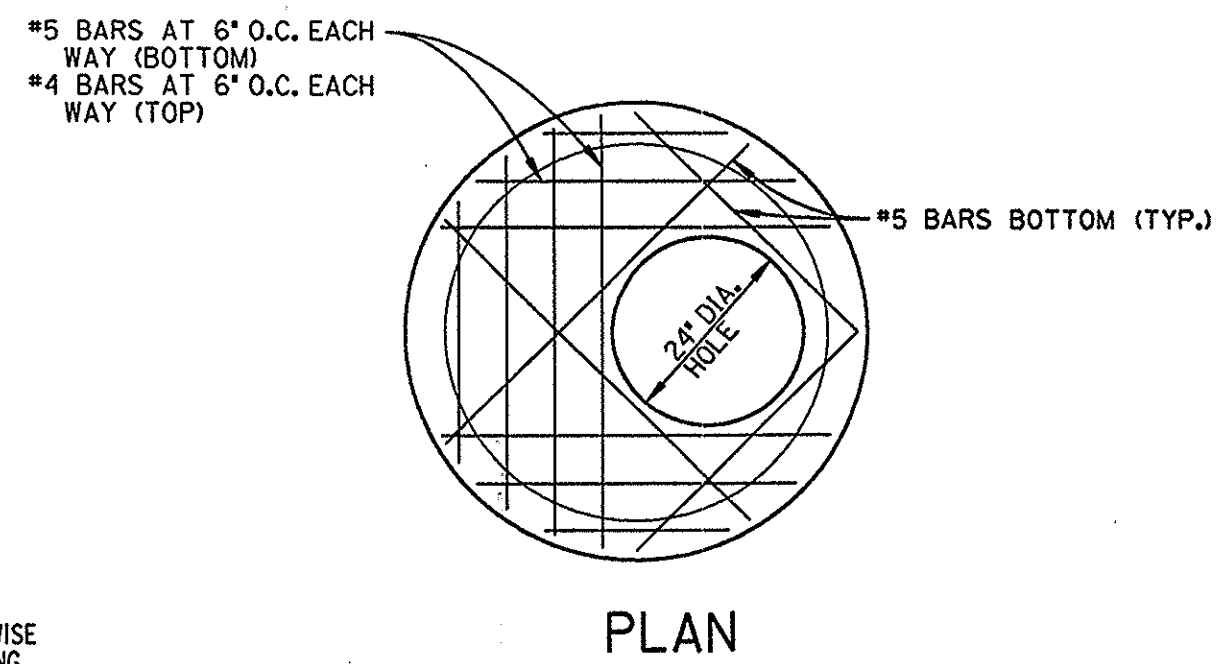
SANITARY SEWER MANHOLE



SECTION A-A
PAVED GUTTER TYPE 2
CONCRETE GUTTERS SHALL HAVE IMPRESSED CONTRACTION JOINTS SPACED AT 10 FEET INTERVALS.

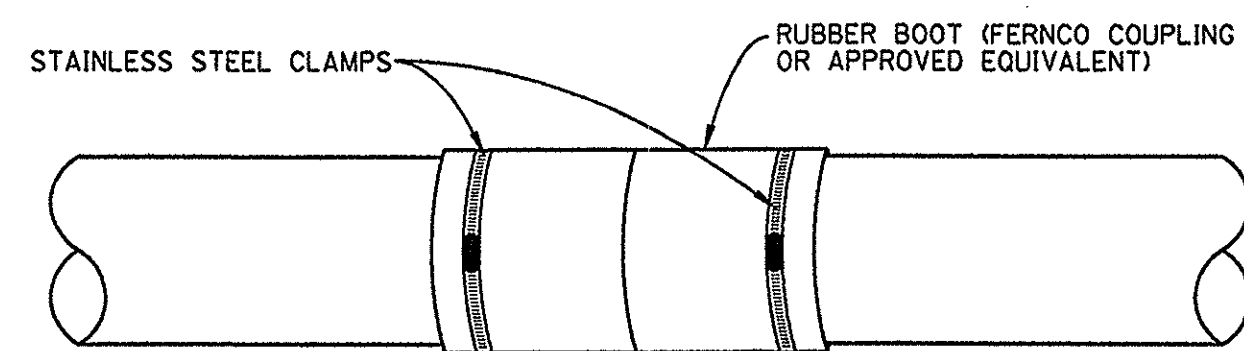


SIDE VIEW

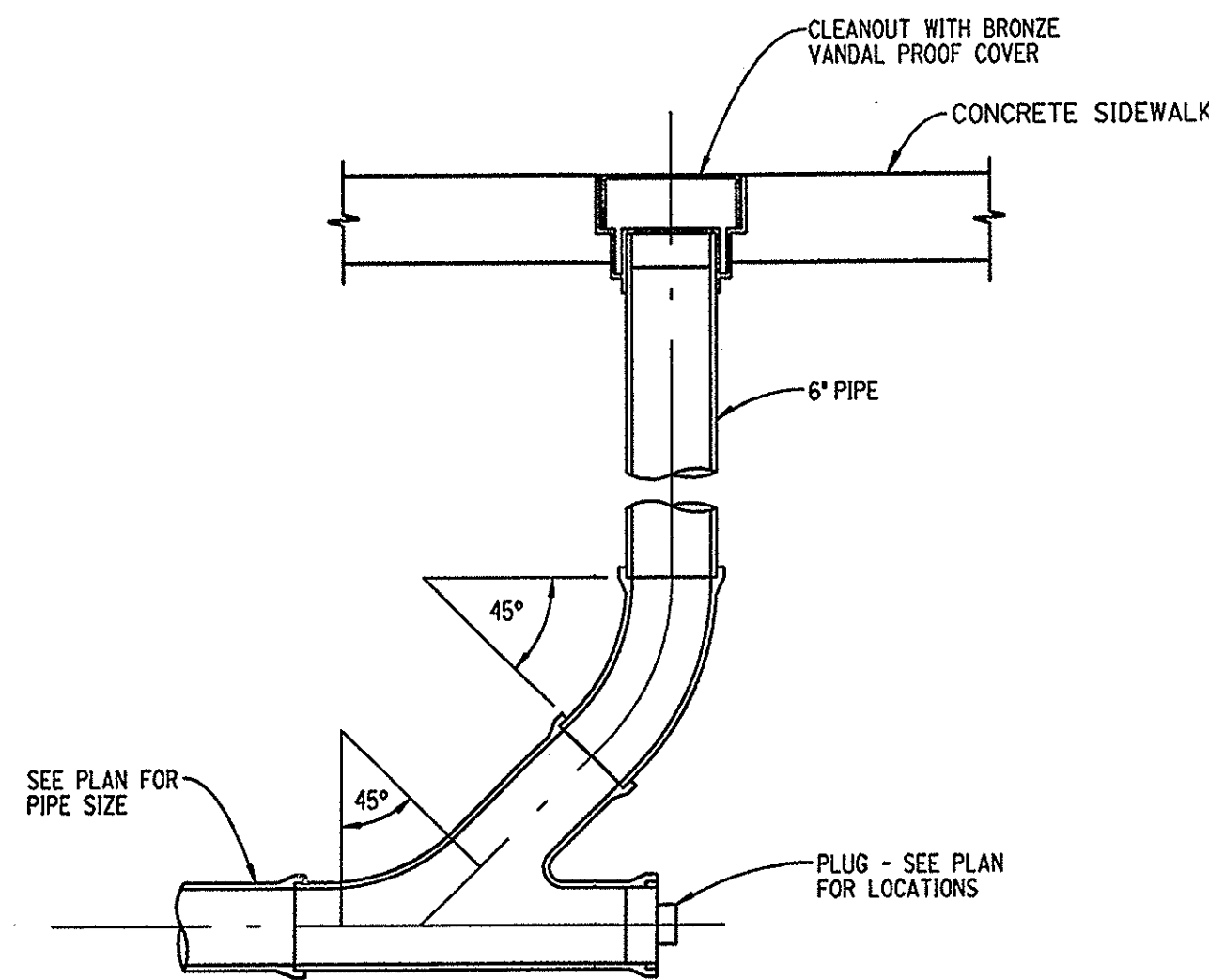


FLAT SLAB MANHOLE TOP

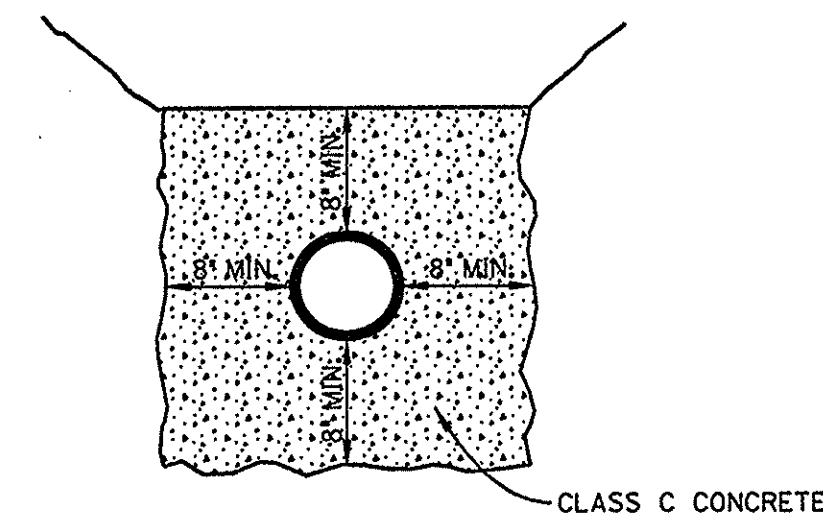
FOR SANITARY SEWER MANHOLES TO BE USED WHERE CONE CAN NOT BE USED DUE TO HEIGHT LIMITATIONS



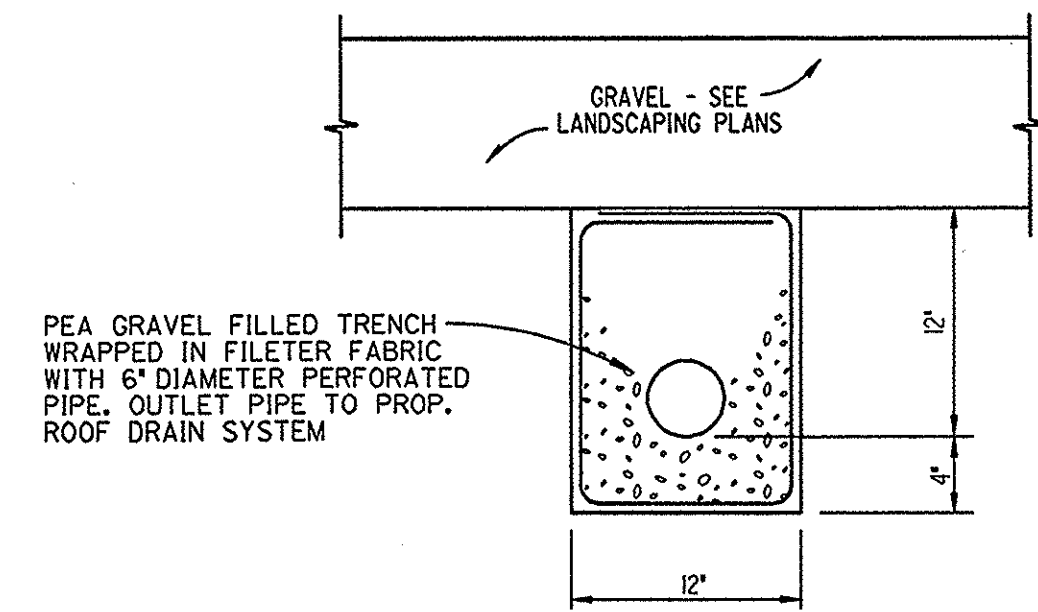
FLEXIBLE COUPLING
TO CONNECT TWO DISSIMILAR PIPE TYPES



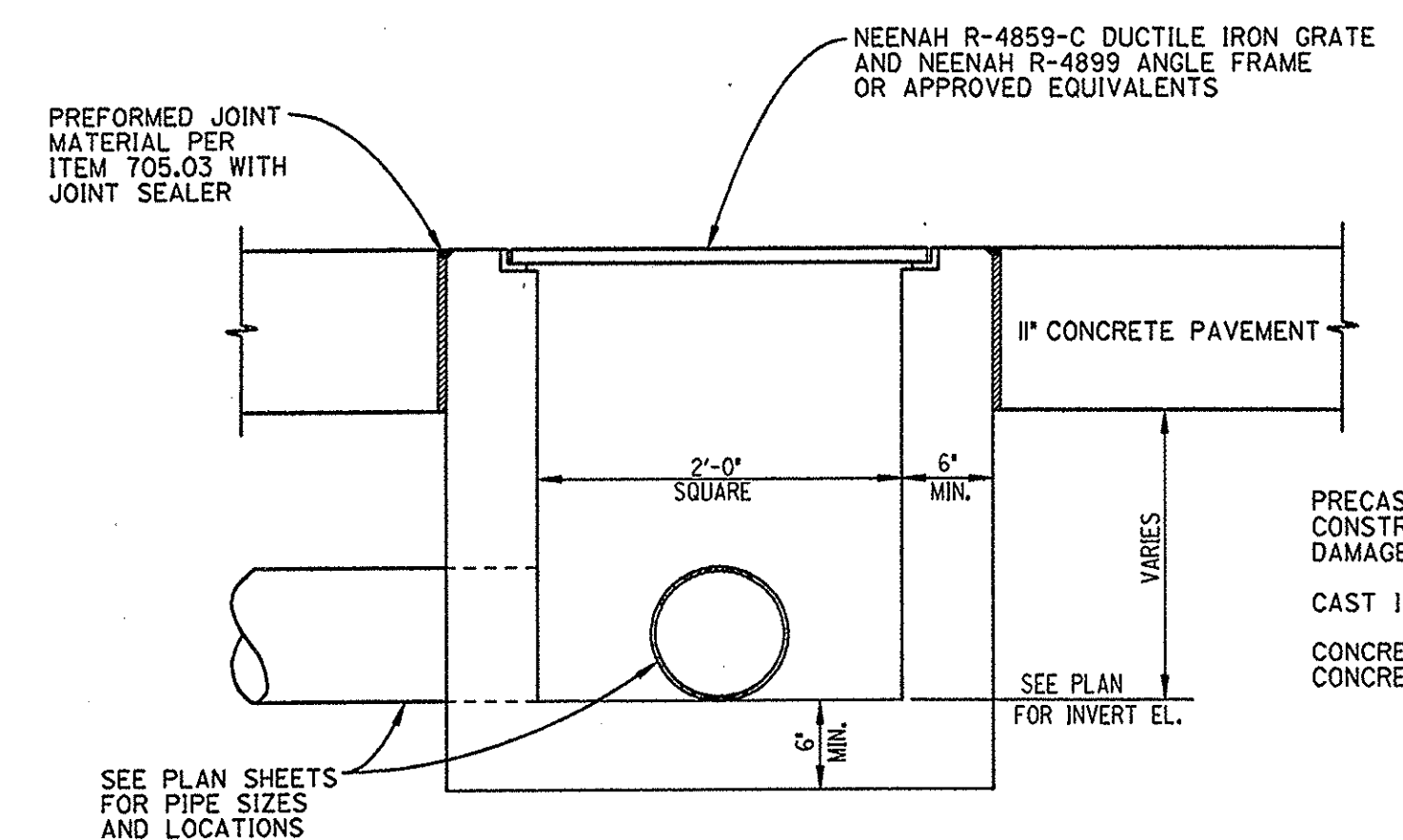
CLEANOUT DETAIL



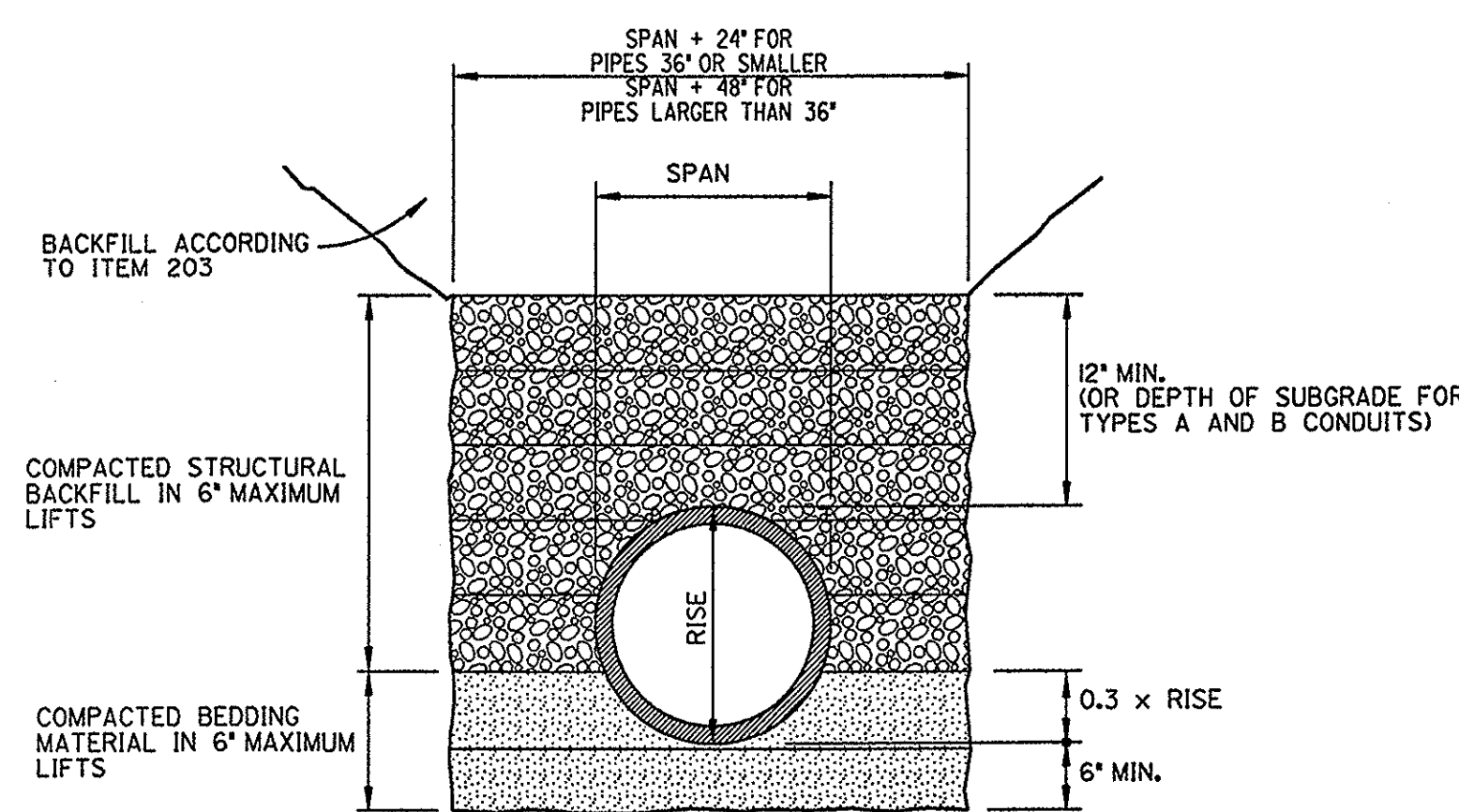
CONCRETE ENCASEMENT DETAIL
NOT AT CREEK CROSSINGS



PERFORATED PIPE UNDERDRAIN DETAIL
(UNDER MECHANICAL EQUIPMENT AREA, SEE LANDSCAPING PLANS)

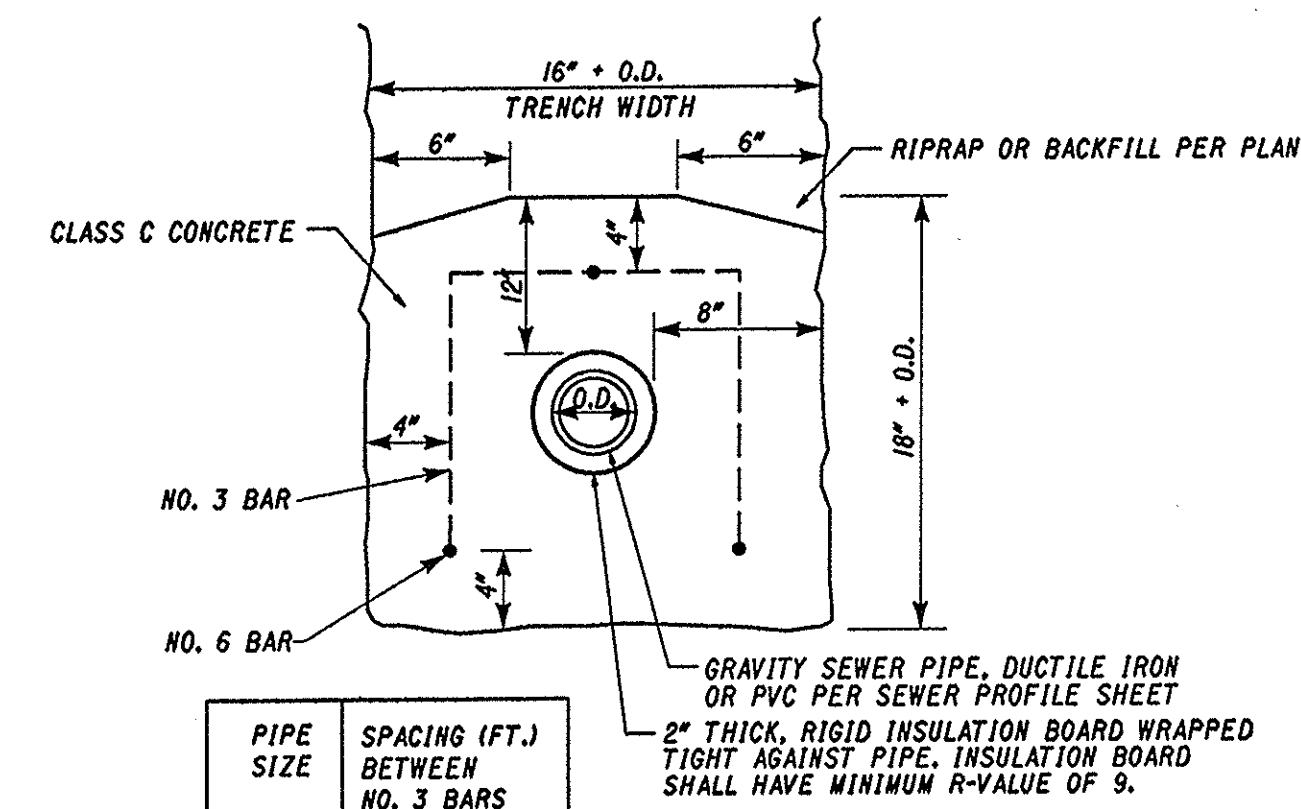


CATCH BASIN TYPE 2-2B MODIFIED



PIPE BEDDING AND BACKFILL DETAIL

- NOTES:
- SEE SPECIFICATIONS FOR SANITARY SEWER BEDDING AND BACKFILL MATERIALS.
 - SEE SECTION 603.04 AND 603.08 FOR STORM SEWER AND CULVERT BEDDING AND BACKFILL MATERIALS AND CONSTRUCTION REQUIREMENTS.



PIPE SIZE	SPACING (FT.) BETWEEN NO. 3 BARS
6"	1.64'
8"	1.125'
10"	1.12'
12"	1.02'
16"	0.85'
18"	0.78'
20"	0.72'
24"	0.63'
30"	0.57'

INSULATED CONCRETE ENCASEMENT
AT CREEK CROSSING

CONSULTING ARCHITECTS & ENGINEERS ARCHITECTS OFFICE OF THE STATE ARCHITECT MECHANICAL, ELECTRICAL & STRUCTURAL SRA, INC. SITE/CIVIL KZF DESIGN LANDSCAPE ARCHITECTURE KINZELMAN KLINE																															
REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>			NO.	DATE	DESCRIPTION																										
NO.	DATE	DESCRIPTION																													
FOR: OHIO DEPT. OF TRANSPORTATION DRAWING DESCRIPTION: DETAILS PROJECT NO. 770-2003-074 I-70 / LICKING COUNTY REST AREA STATE OF OHIO DEPARTMENT OF ADMINISTRATIVE SERVICES GENERAL SERVICES DIVISION PREPARED BY GENERAL SERVICES DIVISION OFFICE OF THE STATE ARCHITECT PLOT DATE: 20 JULY, 2004 DATE: AUGUST, 2004 C5.01																															

BID/CONSTRUCTION SET



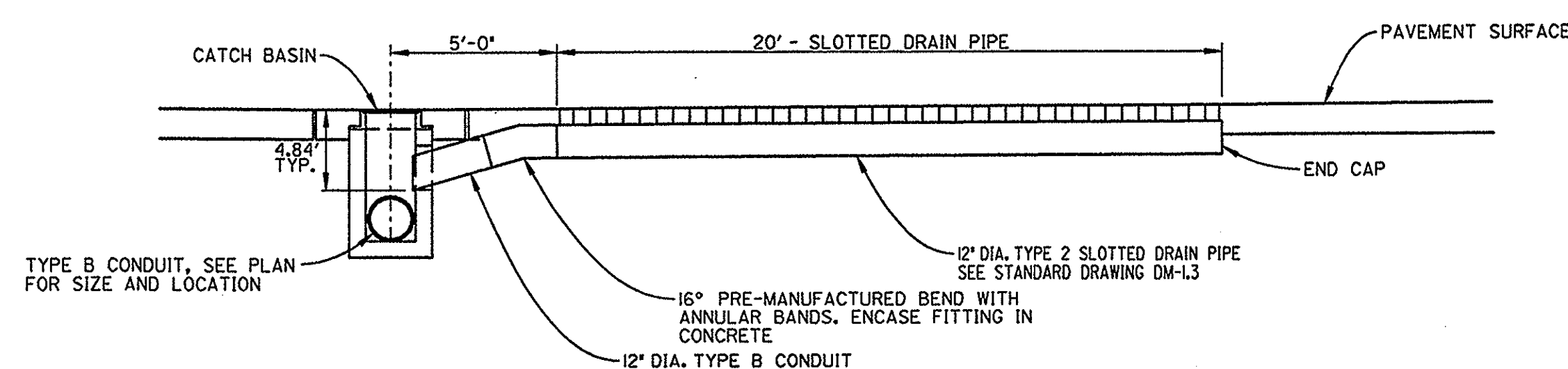
CONSTRUCTION REQUIREMENTS
FABRIC TIE WIRES SHALL BE SPACED 1'-0" ON CENTERS.
THE CONTRACTOR IS NOT TO ORDER GATES UNTIL THEIR NECESSITY
AND LOCATION HAVE BEEN CERTIFIED BY THE ENGINEER.

MATERIALS

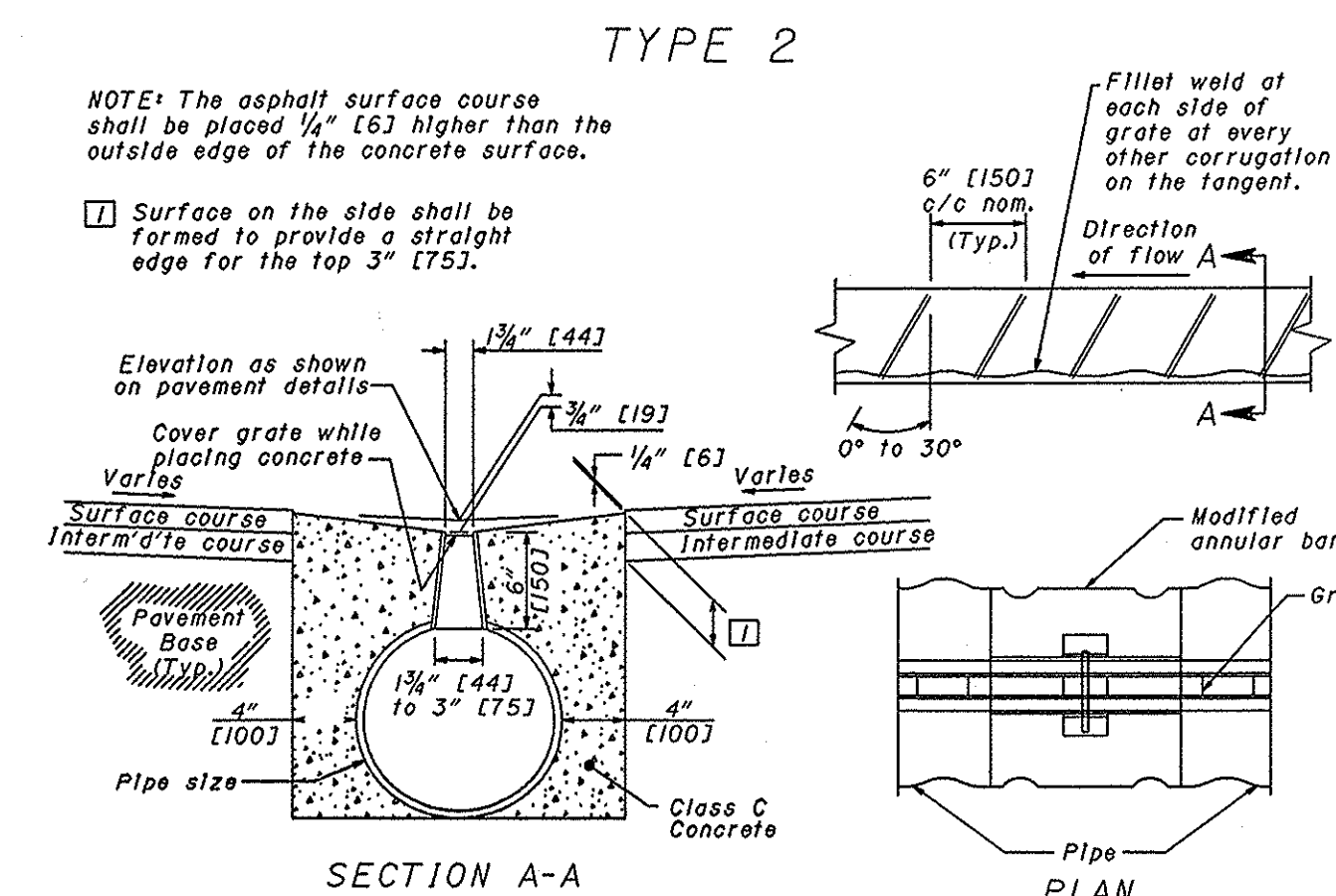
WOVEN-WIRE FABRIC USED IN THE GATES SHALL EITHER BE ALUMINUM-COATED STEEL NO.1047-6-9 OR ZINC-COATED STEEL NO.1047-6-9.

NPS = NOMINAL PIPE SIZE - ASTM F1083 AND F1043 (HEAVY INDUSTRIAL FENCE) SHALL GOVERN.

GATES SHALL HAVE HEAVY PRESSED STEEL CORNERS SECURELY RIVETED. SHALL BE MACHINE NOTCHED AND ELECTRICALLY WELDED SO AS TO BE RIGID AND WATER TIGHT. ALL WELDED JOINTS SHALL BE CLEANED AND PAINTED WITH TWO (2) COATS OF ALUMINUM PAINT.



CATCH BASIN WITH 12" SLOTTED DRAIN DETAIL
TYPICAL SECTION ALONG SLOTTED DRAIN PIPE



(Refer to Sample Plan Note D119)

SLOTTED DRAIN PIPE TO BE BITUMINOUS COATED STEEL CONDUIT 707.05 (14 GAUGE) WITH 6 INCH BY $\frac{3}{16}$ INCH GALVANIZED SOLID BAR GRATE AS APPROVED BY THE ENGINEER.

SECTION A-A

SECTION B-B

PLAN VIEW

DETENTION BASIN OUTLET CONTROL STRUCTURE

Basin Control Structure Summary			basin control structure		
DIMENSION NAME	UNITS	DIMENSION VARIABLE	ND-3	ND-4	SD-1
low flow outlet width	R	S	0.81	0.83	1.388
outlet pipe ID	R	PIPE I.D.	5.00	2.50	4.000
tulr (inside) face length	R	L	6.00	2.50	4.000
Control Structure height	R	H	3.00	2.00	2.000
ODOT half-height width	R	W	10.50	5.00	2.500
headwall depth (below control elev.)	R	D	3.00	2.50	2.500
Sited Wet Bottom Elevation			887.00	888.00	889.00
Broad Crested Wet (Top) Elevation			900.00	901.00	900.00

CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT
OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL & STRUCTURAL
SRA, INC.
SITE/CIVIL
KZF DESIGN
LANDSCAPE ARCHITECTURE
KINZELMAN KLINE

REVISIONS

NO.	DATE	DESCRIPTION
-----	------	-------------

NO.	DATE	DESCRIPTION

FOR:

OHIO DEPT. O

DRAWING RECORDS

DRAWING DESCRIPTION

DETAILS

9	PROJECT
7	

I-70 / LICKING

CTH

STATE
DEPARTMENT OF

GENERAL

GENERAL
OFFICE OF

OFFICE OF	
PLCT DATE	DATE

30 JULY 2004

20 JUL 2004	AS
-------------	----

Professional Engineer Seal for Bryan Michael Bender, State of Ohio, E-68622. The seal is circular with "STATE OF OHIO" at the top, "PROFESSIONAL ENGINEER" around the bottom, and "REGISTERED" at the bottom center. The name "BRYAN MICHAEL BENDER" and the number "E-68622" are in the center. A signature is written over the seal.

FOR:
OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
DETAILS

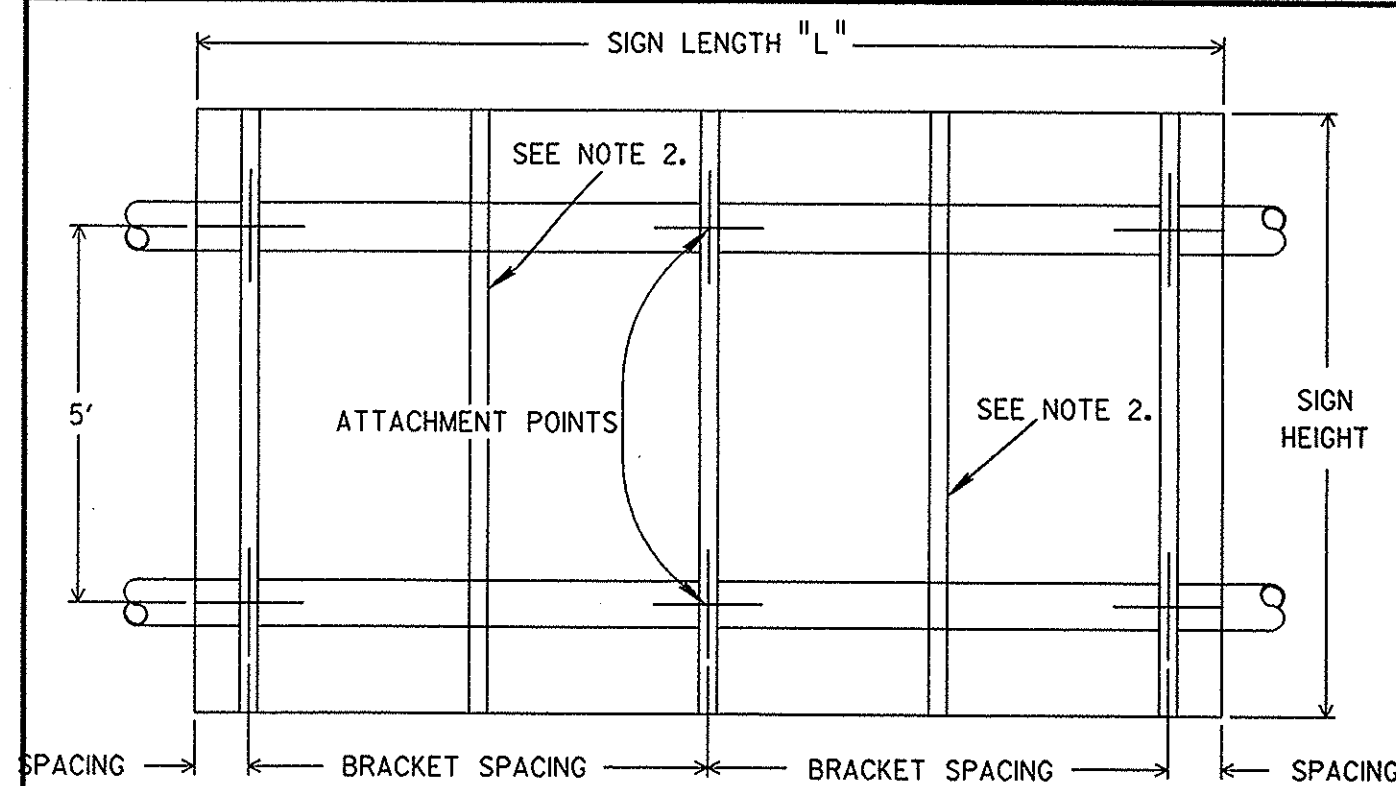
PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

BID#	PLOT DATE	DATE	C5.02
	20 JULY, 2004	AUGUST, 2004	

--	--	--	--

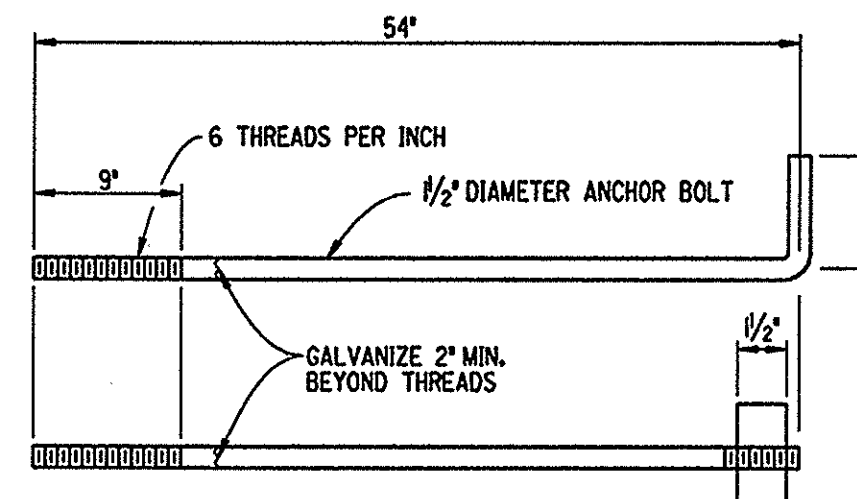
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----



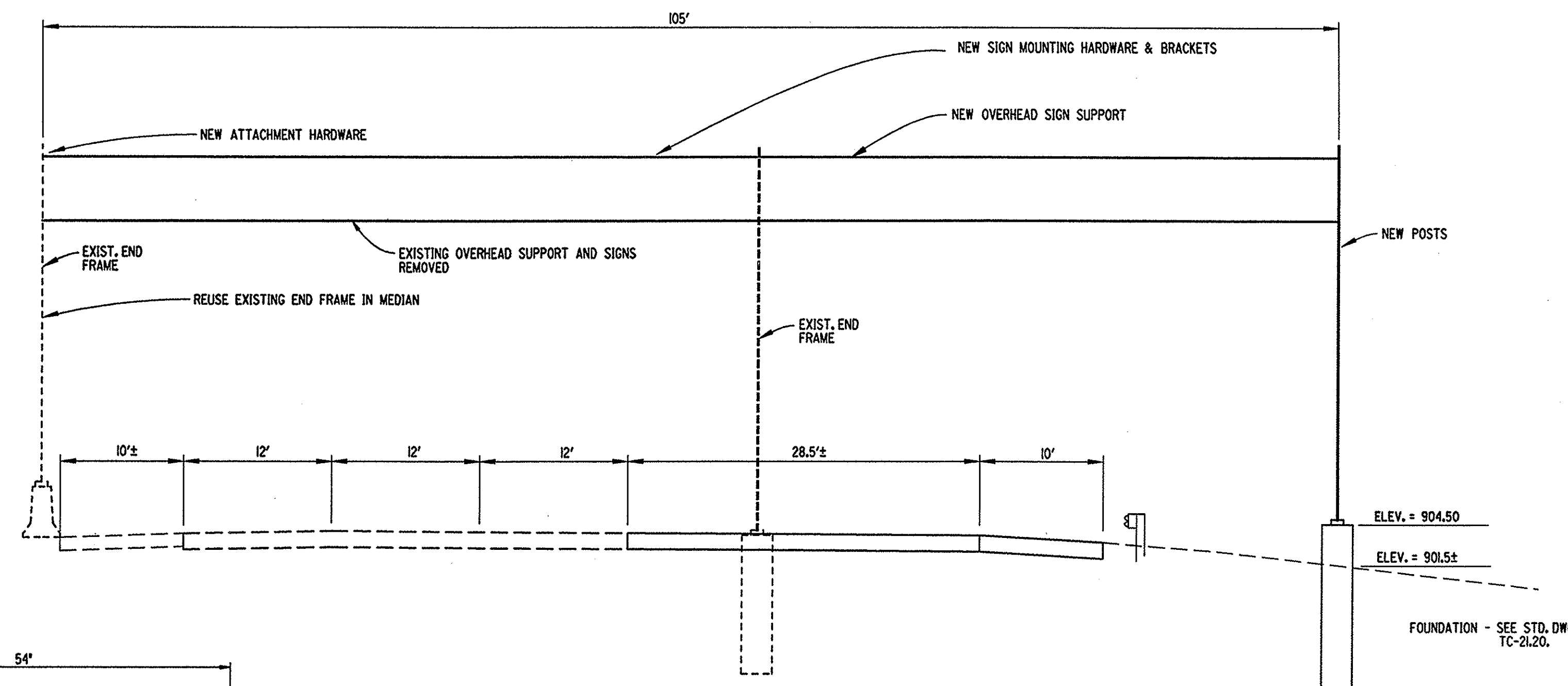
SIGN BRACKET				
L (feet)	NUMBER OF BRACKETS	BRACKET SPACING (INCHES)		
4	2	6	36	6
5		6	48	6
6		6	60	6
7		6	72	6
8		12	72	12
9		12	84	12
10		12	96	12
11	3	18	96	18
12		6	66	66
13		6	72	72
14		12	72	12
15		18	72	18
16		12	84	84
17		18	84	18
18	4	12	96	96
19		18	96	18
20		12	72	72
21		18	72	18
22		6	84	84
23		12	84	84
24		18	84	18
25	6	6	96	96
26		12	96	12
27		18	96	18

- Sign brackets shall be a 4" x 3" x 1/4" aluminum zee at 2.85 LB/FT.
- Provide intermediate sign brackets if the sign extends more than 4 feet above or below an attachment point.
- U-Bolts, other bolts, nuts and washers shall be stainless steel for use with aluminum chords. When used with galvanized sign structures the U-Bolts only may be galvanized steel.
- Prevent contact between aluminum and galvanized parts with a minimum 1/16" thick chloroprene gasket or approved equal.

SIGN ATTACHMENT ASSEMBLIES

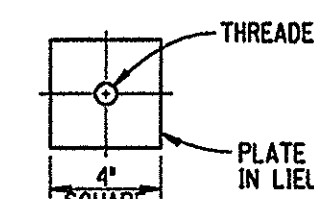


ANCHOR BOLTS



PROPOSED OVERHEAD SIGN SUPPORT

NOTE: CARE SHALL BE TAKEN DURING CONSTRUCTION OF THIS FOUNDATION DUE TO THE CLOSE PROXIMITY OF THE 42" CULVERT EXTENSION ANY CONFLICTS WITH THE CULVERT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY. DAMAGE TO THE PROPOSED CULVERT DUE TO THE CONSTRUCTION OF THIS FOUNDATION SHALL BE REPAIRED BY THE CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER.



DIRECTION OF TRAFFIC

NOTES

- For sign attachment assemblies to be furnished with this support, construction details and location of handholes and switch enclosure mounting brackets, see drawings TC-22.10 and TC-22.10.
- For foundation details, see drawing TC-21.10.
- Use nominal 2" (51 mm) schedule 40 pipe for bracing members in the truss. One internal diagonal is required at each end of each section.
- Weld one threaded steel 1-1/4" (32 mm) pipe coupling or short nipple to the outside of each end frame pole as shown in detail D. Remove all sharp edges inside the pole and pipe coupling.
- Weld one threaded steel 1-1/4" (32 mm) pipe coupling or short nipple to the front top chord of the truss approximately 12" (300 mm) outboard of the first sign bracket for each sign. Remove all sharp edges inside the chord and pipe coupling.
- Camber the truss a minimum of 1" (25 mm) for a span of 50' (15.2 m) or less. Increase the camber 1/4" (6.4 mm) for each 5' (1.5 m) of span over 50' (15.2 m).
- Internal diagonals only may be relocated from the indicated position to avoid weld joint overlap.
- Provide a removable galvanized cast iron plug for all unused couplings and wire outlets.

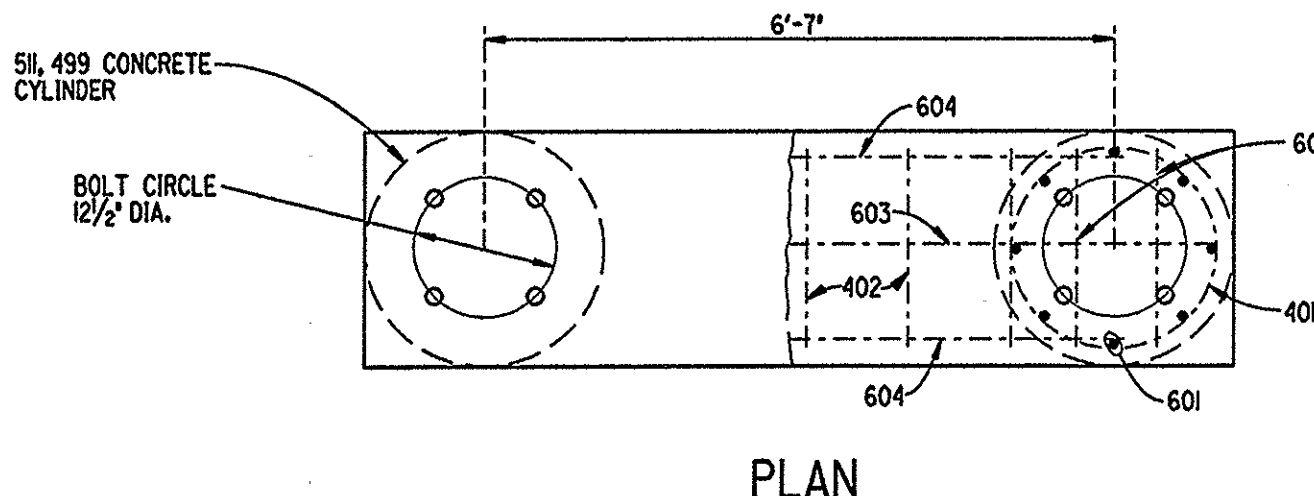
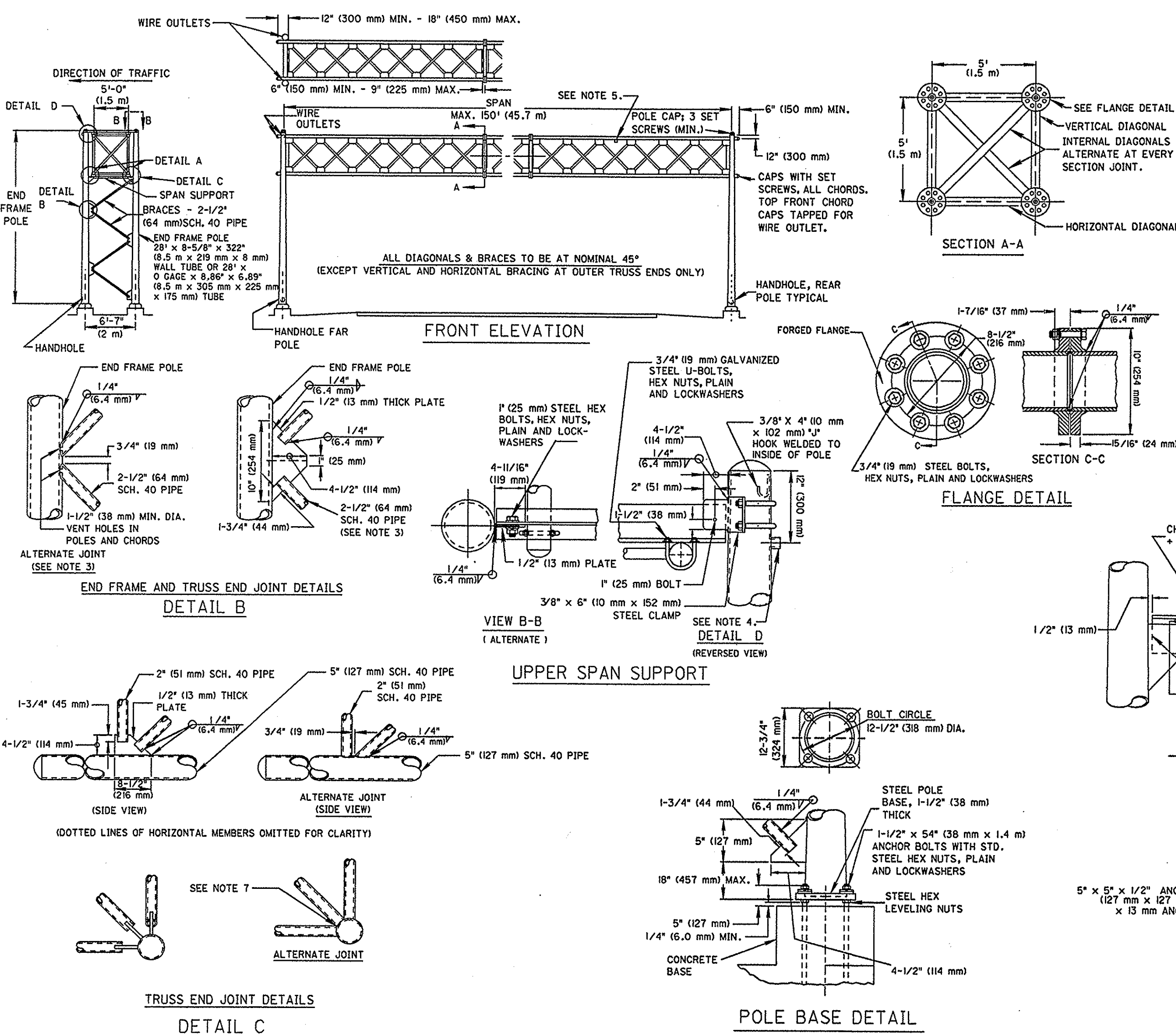
07-18-03

STEEL TRUSS OVERHEAD SIGN SUPPORT

OFFICE OF TRAFFIC ENGINEERING

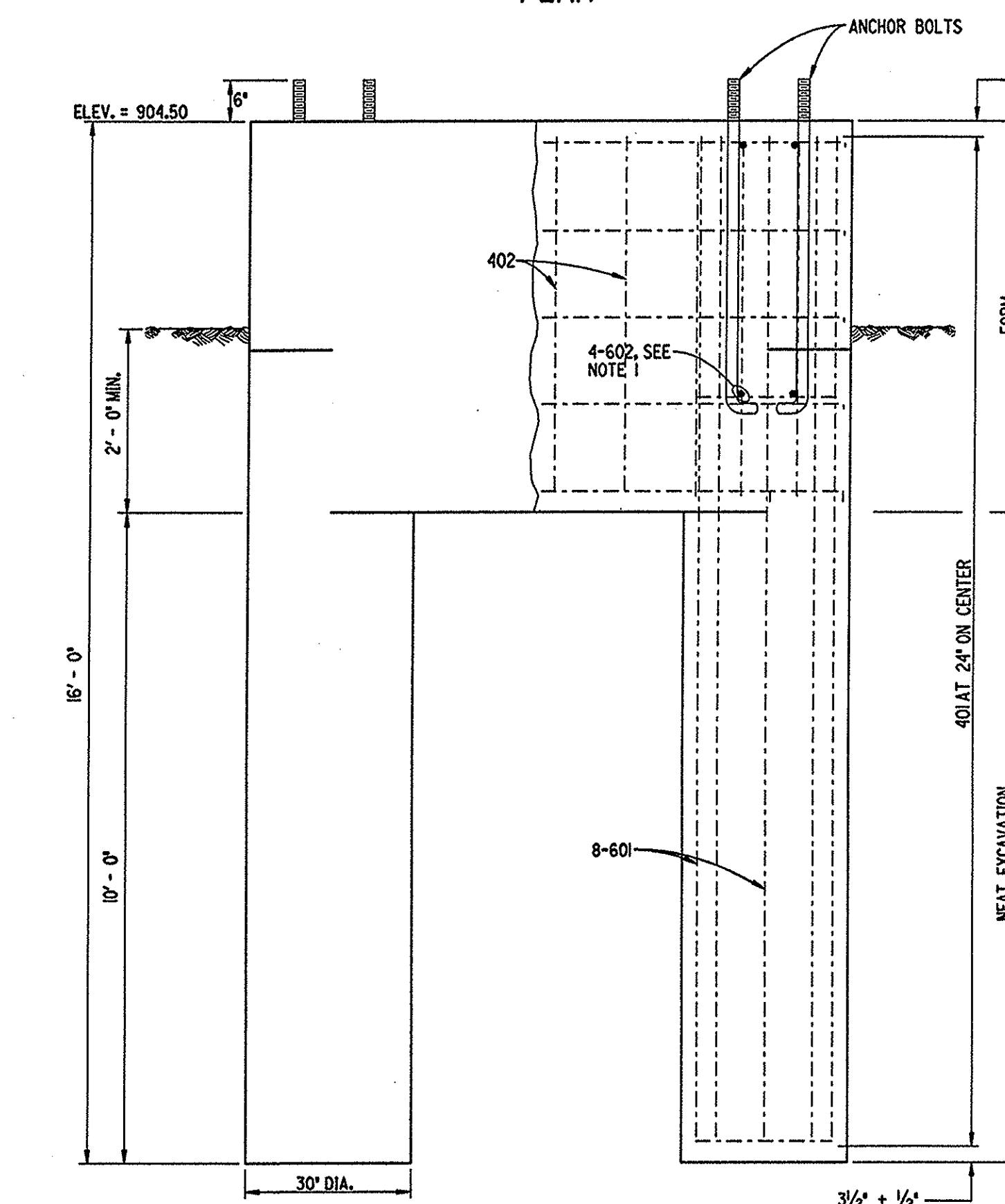
TC-15.115

1/1



PLAN

REINFORCEMENT SCHEDULE (FOR EACH FOUNDATION)				
MARK	NO.	LENGTH	TYPE	
401	24" 9 c	7'-6"	401	
402	12" 9 c	15'-6"	402	
601	16	15'-6"	STR.	
602	8	2'-0"	STR.	
603	5	10'-7"	603	
604	10	8'-7"	604	



OVERHEAD SIGN SUPPORT FOUNDATION

- Tie anchor bolts to rebar cage near the top and bottom of the anchor bolts.
- When required by local conditions and approved by the Engineer, alternate foundation designs are acceptable.
- Provide all anchor bolts with standard steel hex nuts, leveling nuts, plain and lockwashers. The nuts shall be capable of developing the full strength of the anchor bolts.

CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT
OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL & STRUCTURAL
SRA, INC.
SITING
LANDSCAPE ARCHITECTURE
KINZELMAN KLINE

REVISIONS		
NO.	DATE	DESCRIPTION

FOR:
OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:

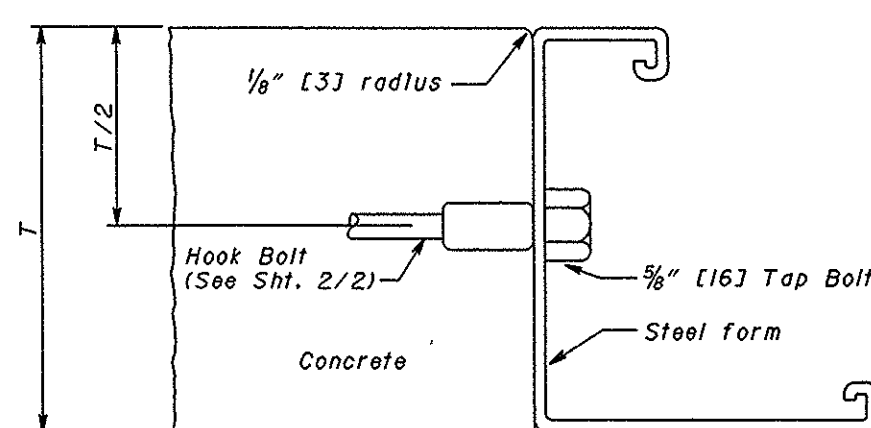
DETAILS

PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

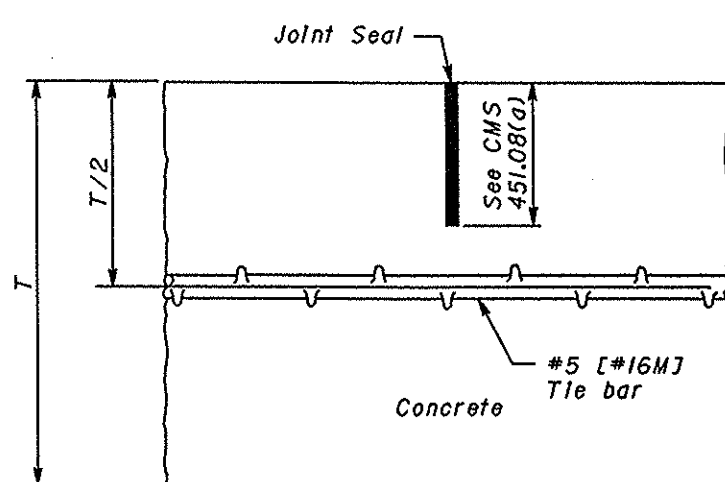
STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLOT DATE: 20 JULY, 2004
DATE: AUGUST, 2004
C5.03

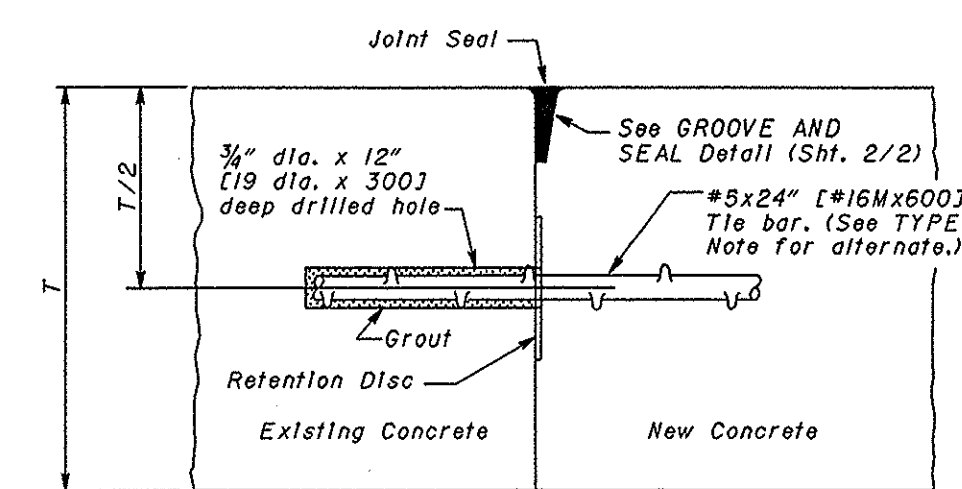
07/20/2004 10:28:14 AM



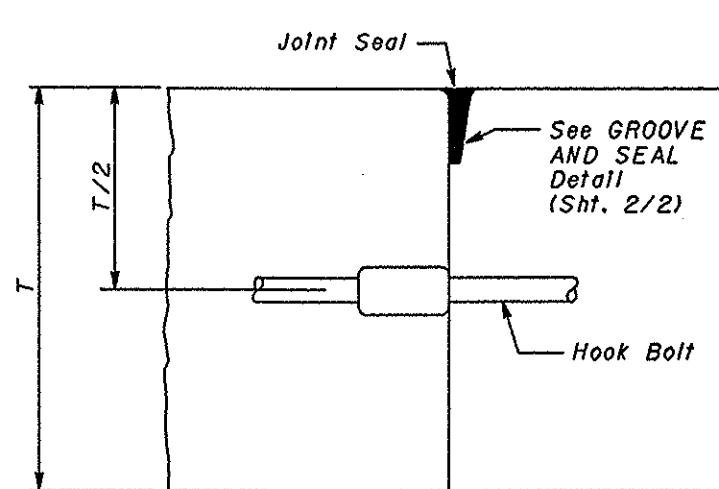
ACCEPTABLE METHOD OF FORMING JOINT



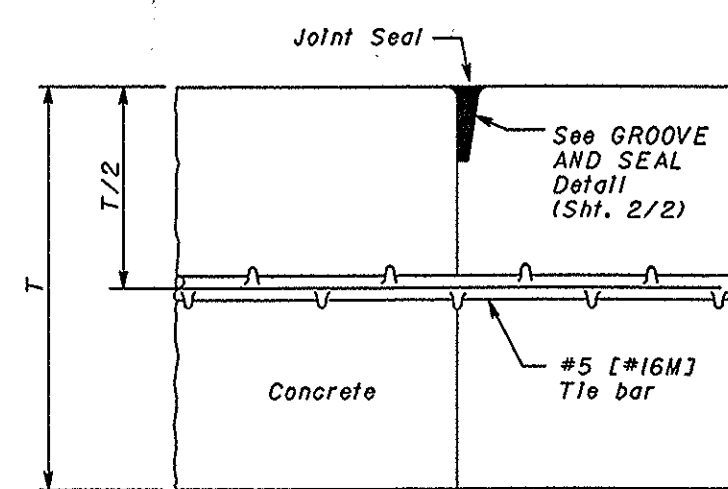
SAWED JOINT



TYPE D (DRILLED TIED LONGITUDINAL) JOINT



BUTT JOINT
W/ HOOK BOLT



BUTT JOINT
W/ TIE BAR

NOTES

GENERAL: Longitudinal joints shall be used when specified on the typical section and shall be constructed as shown on this drawing in Items 451 and 452 Pavement and Item 305 Base. The joint shall be on the centerline of the pavement unless otherwise shown on the plans. Where the pavement width exceeds 16' (5.0 m), an additional longitudinal joint shall be introduced into the jointing details as directed by the Engineer. Tie bars shall be #5 (16 mm) deformed bars. A satisfactory device shall be used to hold the tie bars in proper position or they may be installed by a mechanical installing device. Tie bars shall be centered on the longitudinal joint as nearly as practical.

BUTT JOINT: The longitudinal joint between adjoining slabs poured in separate operations shall be a butt joint with hook bolts or tie bars, unless otherwise shown on the plans. Bent tie bars shall not be permitted.

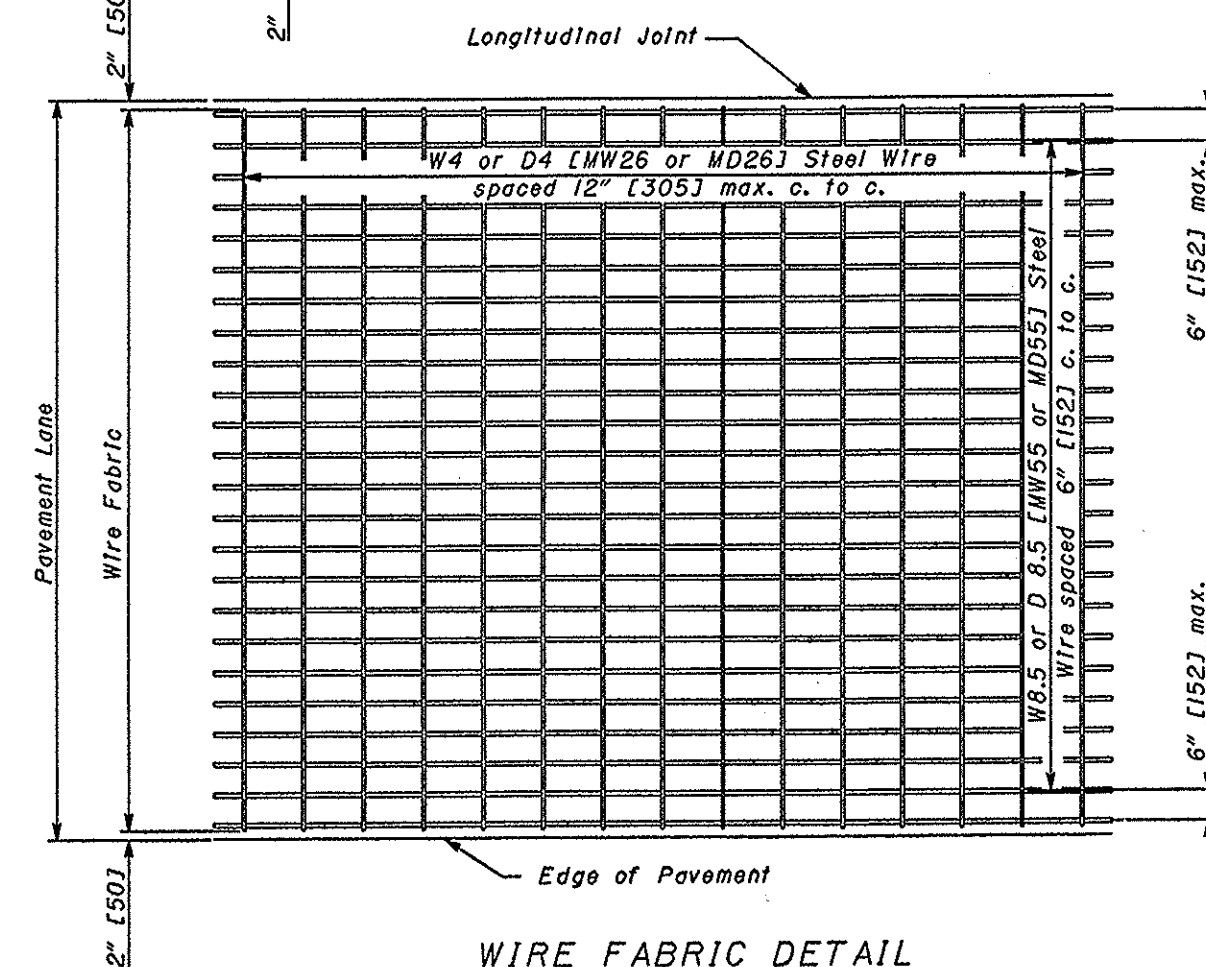
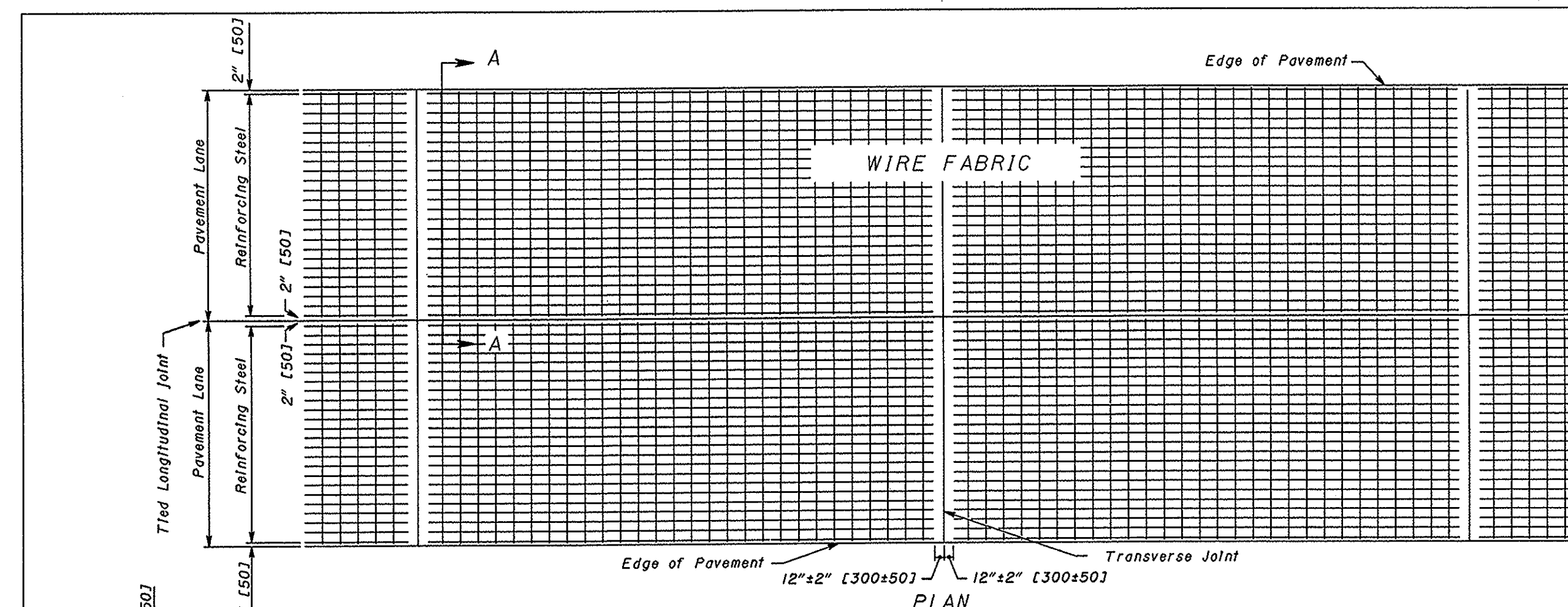
TYPE D (DRILLED TIED LONGITUDINAL) JOINT: Type D joints shall be constructed in accordance with CMS 255.05. The nylon or plastic retention disc shall be clear or opaque white in color. Grout shall meet the requirements of CMS 255.02. 1/2 inch (12.7 mm) expansion anchors, FF-S-325, Group VIII, Type I or Group II, Type 4, Class I may be used in lieu of the #5x24 inch (16 mm x 600 mm) deformed bar and shall be installed according to the manufacturer's recommendations. The use of self drilling expansion shield anchors, FF-S-325, Group III, Type I (a) and (c) shall not be permitted. See Sheet 2/2 for additional details.

7-28-00

LONGITUDINAL PAVEMENT JOINTS

BP-2/1

1/2



SECTION A-A

NOTES

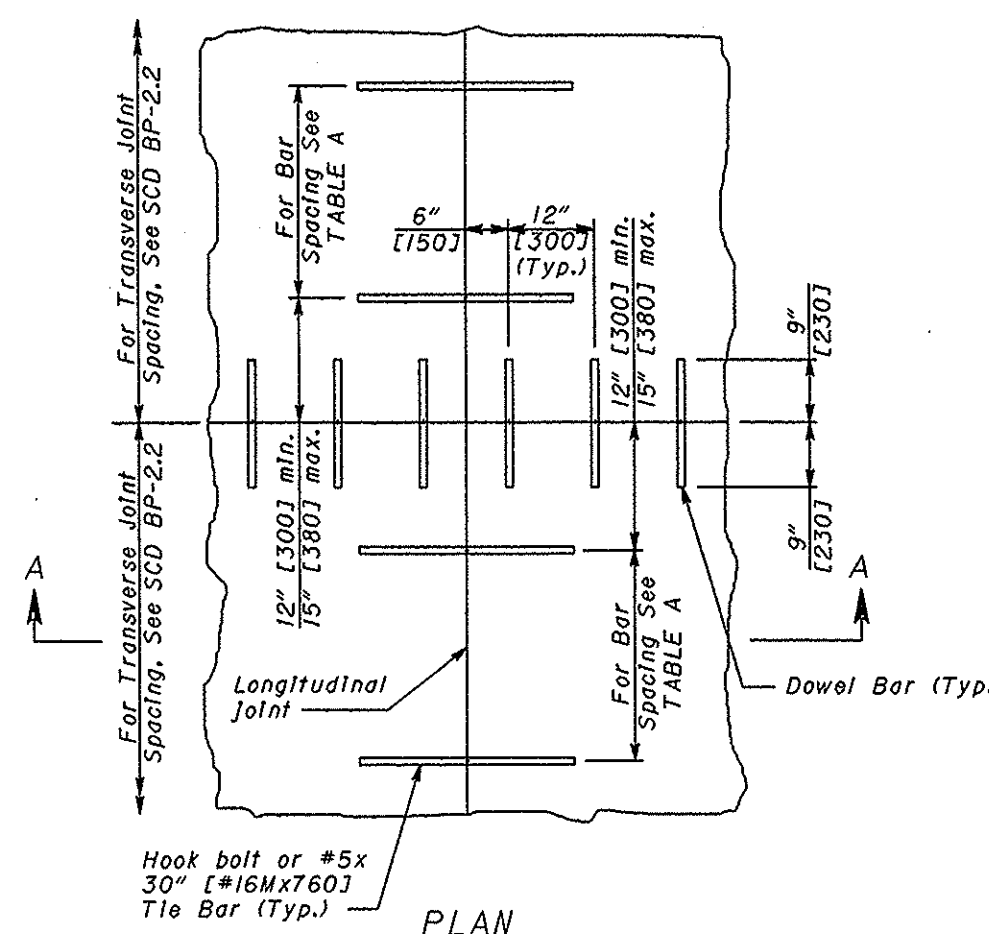
STEEL REINFORCING: In normal or wider lane widths, reinforcing may consist of two units with an approved longitudinal hinge. The hinge shall consist of W4 or D4 (W26 or W26) steel wires connecting the two units such that the longitudinal members on either side of the hinge will be properly spaced when the reinforcing is in the final position. Reinforcing steel in final position shall not touch either the dowels or tie bars.

7-28-00

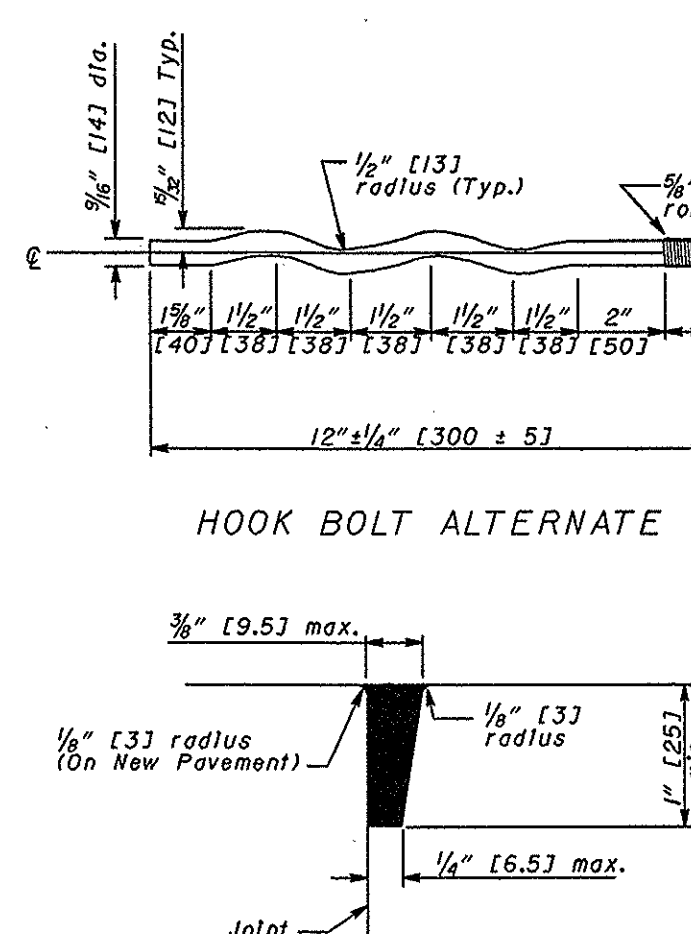
CONCRETE PAVEMENT REINFORCING

BP-1/1

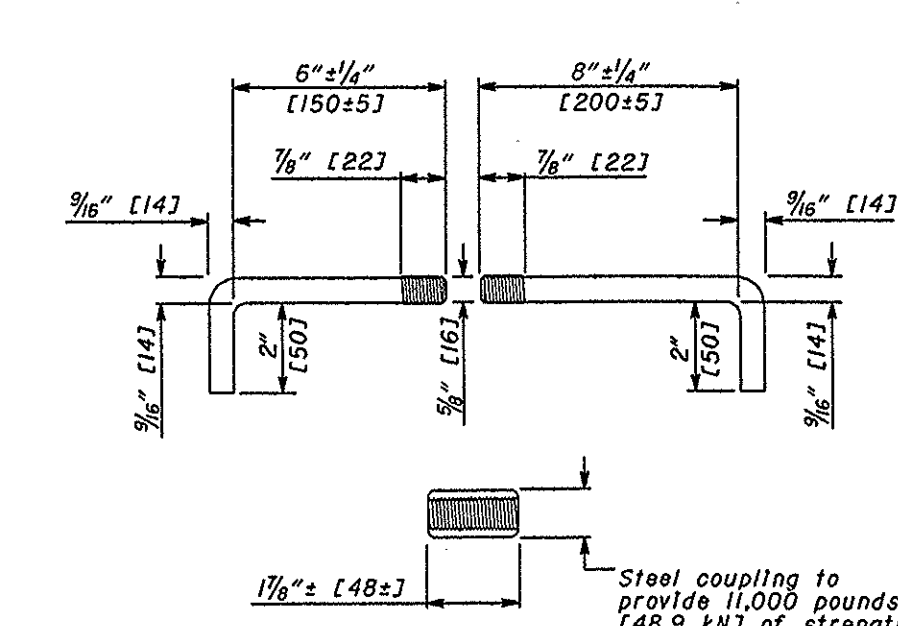
1/1



PLAN



HOOK BOLT ALTERNATE



HOOK BOLT

NOTES

GROOVES: Grooves for sealing expansion bolt or butt joints in Item 451 or 452 pavements shall be formed by depressing a device or bar into the newly deposited concrete adjacent to the existing or previously poured lane. The device or bar shall be removed as soon as the concrete is in such condition as to preclude distortion of the concrete.

Adjoining slabs adjacent to grooved joints shall be edged with a thin metal edger having a radius of 1/8 inch (3.2 mm). Any impression left in the surface of the pavement by the flat part of the edging tool shall be eliminated.

In lieu of the above method the longitudinal joint may be constructed in accordance with CMS 451.06(a).

After the joint is formed it shall be protected from dirt and foreign matter until the joint seal is placed.

SEALING JOINTS: Sawed or hand-formed joints may be sealed with CMS 705.04 or 705.11 joint sealer.

HOOK BOLTS: Threaded hook bolts and alternates shall be turned to a tight fit when installed in couplings.

METAL STRENGTH: Tie bars, hook bolt assemblies and the hook bolt alternate shall have a minimum strength of 11,000 pounds (48.9 kN).

SPACING: Tie bars shall not be located within 12 inch (305 mm) of any transverse joint.

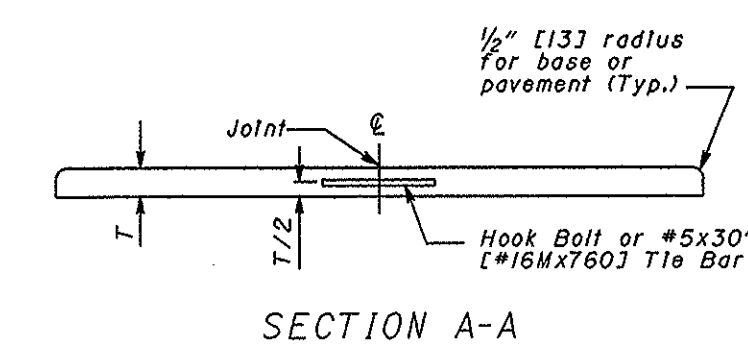
7-28-00

LONGITUDINAL PAVEMENT JOINTS

BP-2/1

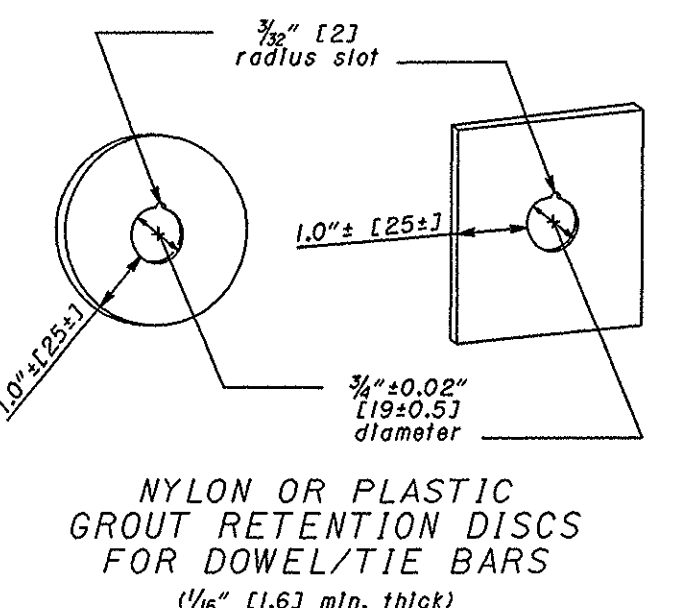
2/2

Thickness of Pavement	Transverse Joint Spacing	Number of Tie Bars per Slab	Max. spacing between Tie Bars
10" [250] or less	15' [4.6 m]	7	26" [660]
Greater than 10" [250]	21' [6.5 m]	10	26" [660]
	15' [4.6 m]	9	20" [508]
	21' [6.5 m]	13	20" [508]



SECTION A-A

TIE BAR OR HOOK BOLT SPACING



NYLON OR PLASTIC GROVE RETENTION DISCS FOR DOWEL/TIE BARS (1/16 inch [1.6 mm] thick)

CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT
OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL & STRUCTURAL
SRA, INC.

SITE/CIVIL
LANDSCAPE ARCHITECTURE
KINZELMAN KLINE

NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

FOR:
OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
DETAILS - ODOT STANDARD DRAWINGS

PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION

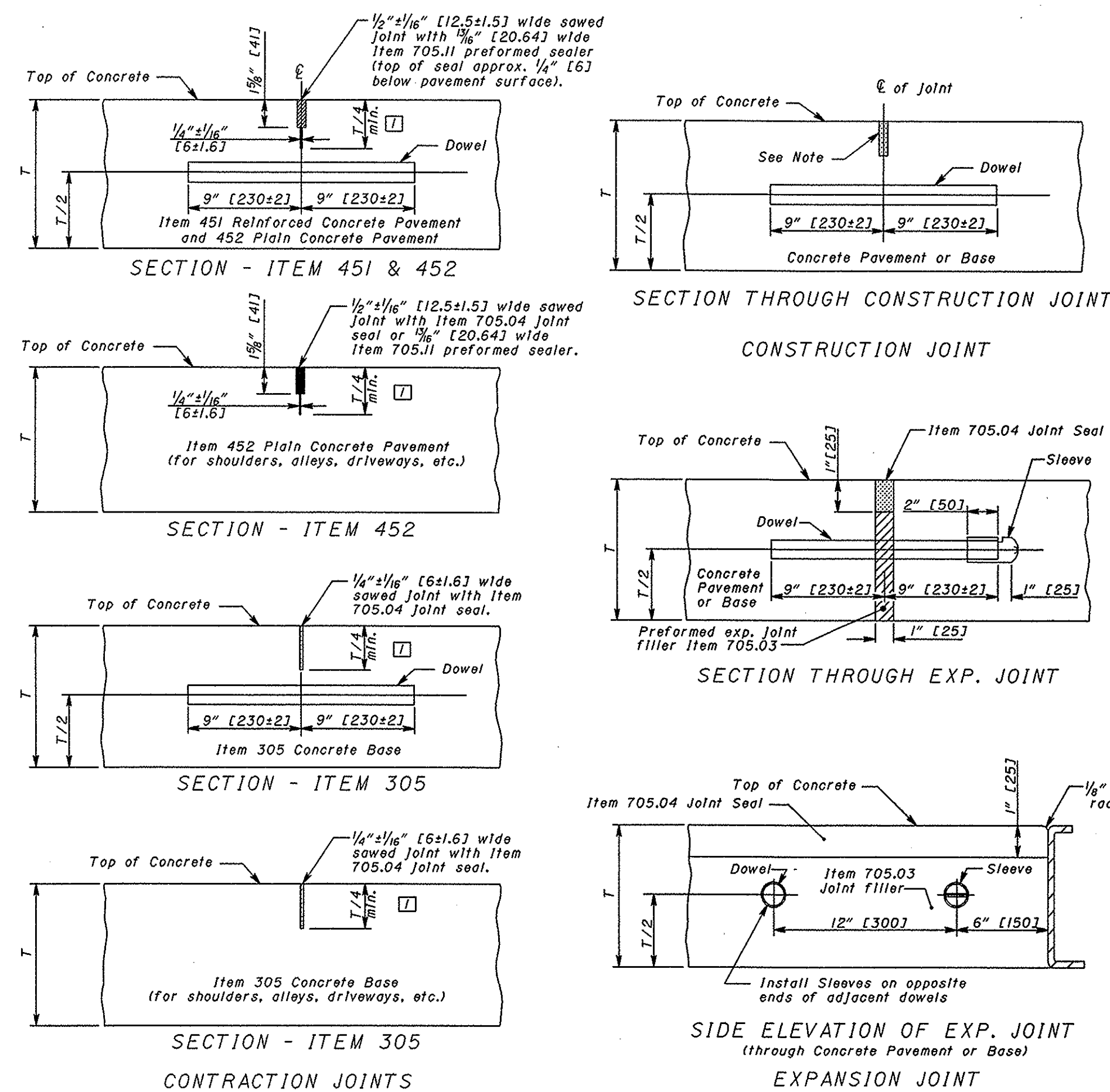
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLOT DATE
20 JULY, 2004

DATE
AUGUST, 2004

C5.04

\\paw005\dot\4685284.dgn 07/20/2004 10:26:35 AM



NOTES

GENERAL: Notes and details shown on this drawing shall be considered in conjunction with and supplemental to the pertinent specifications for portland cement concrete pavement and bases, and related incidentals.

JOINT COMPONENTS: This drawing is intended for use with a uniform depth pavement. When the project involves the placing of variable depth pavement, the joint components shall be held in place in accordance with the method shown in the plans or as approved by the Engineer.

CONSTRUCTION JOINTS: Contraction joints in Item 305 Concrete Base shall be dowelled where they are located in mainline pavement, ramps, acceleration/deceleration lanes, or collector/distributor lanes, or in shoulders within 500' (150 m) of a pressure relief joint.

Contraction joints in Item 305 Concrete Base shall not be dowelled in alleys, private drives, or commercial drives.

Contraction joints of the type specified shall be spaced in accordance with the CONTRACTION JOINT SPACING Table.

CONTRACTION JOINT SPACING	
Types of Pavement or Base	Maximum Spacing Between Joints
Item 451 Reinforced Concrete Pavement	2' [6.5 m]
Item 452 Plain Concrete Pavement	15' [4.6 m]
Item 305 Concrete Base	15' [4.6 m]

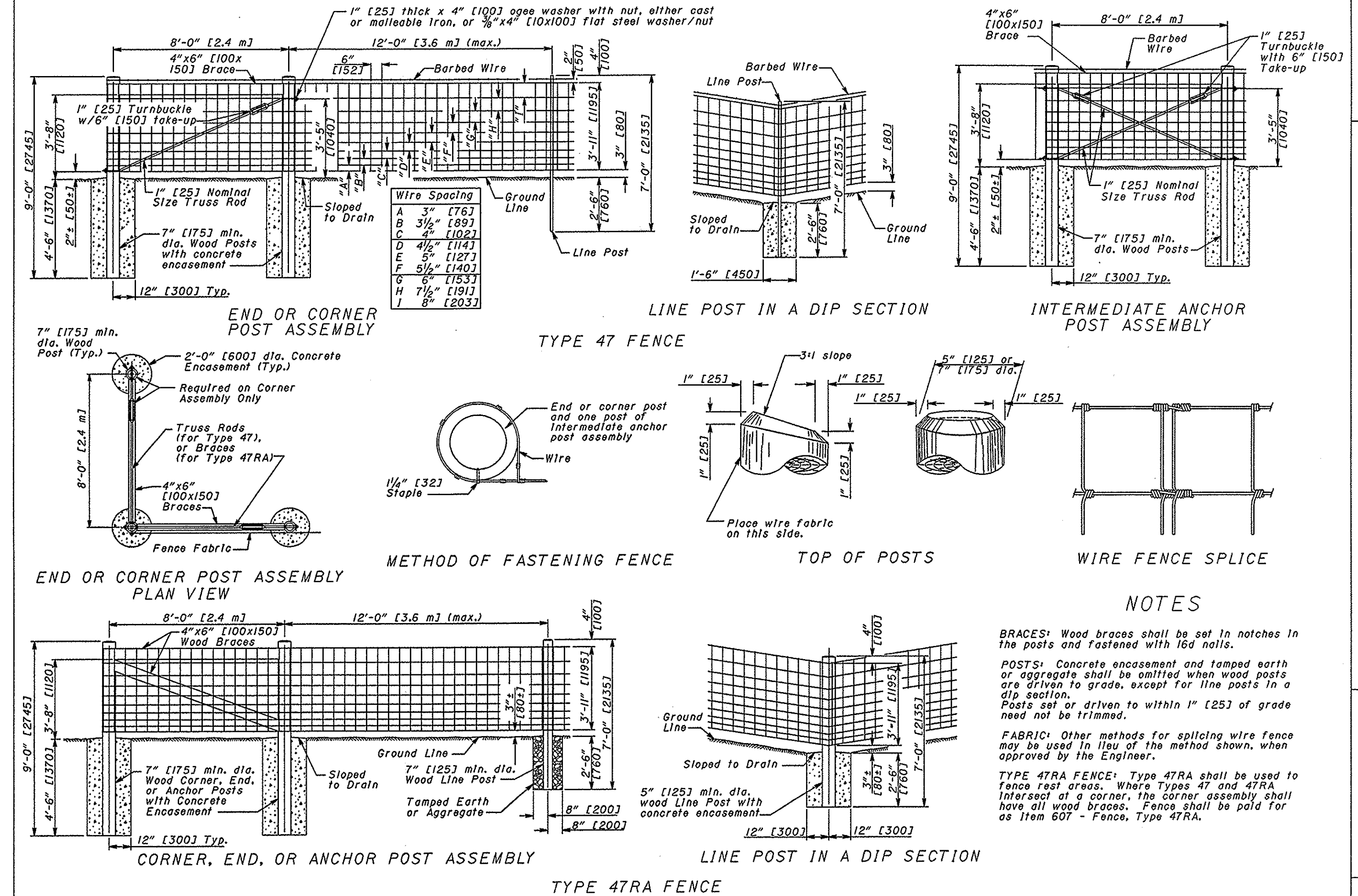
CONSTRUCTION JOINTS: In Item 305 Concrete Base, a construction joint shall not be located closer than 6' (1.8 m) to another parallel joint.

Kerf and seal conforming in all respects to details shown for contraction joints shall be provided at each construction joint in concrete pavement and base.

SEALING BASE CONTRACTION JOINTS: All contraction joints for concrete base shall be sealed as detailed on this drawing and the cost included in the unit price bid for Item 305.

LEGEND

□ Where $T > 10'$ (255), the sawcut depth shall be $T/3$.



NOTES

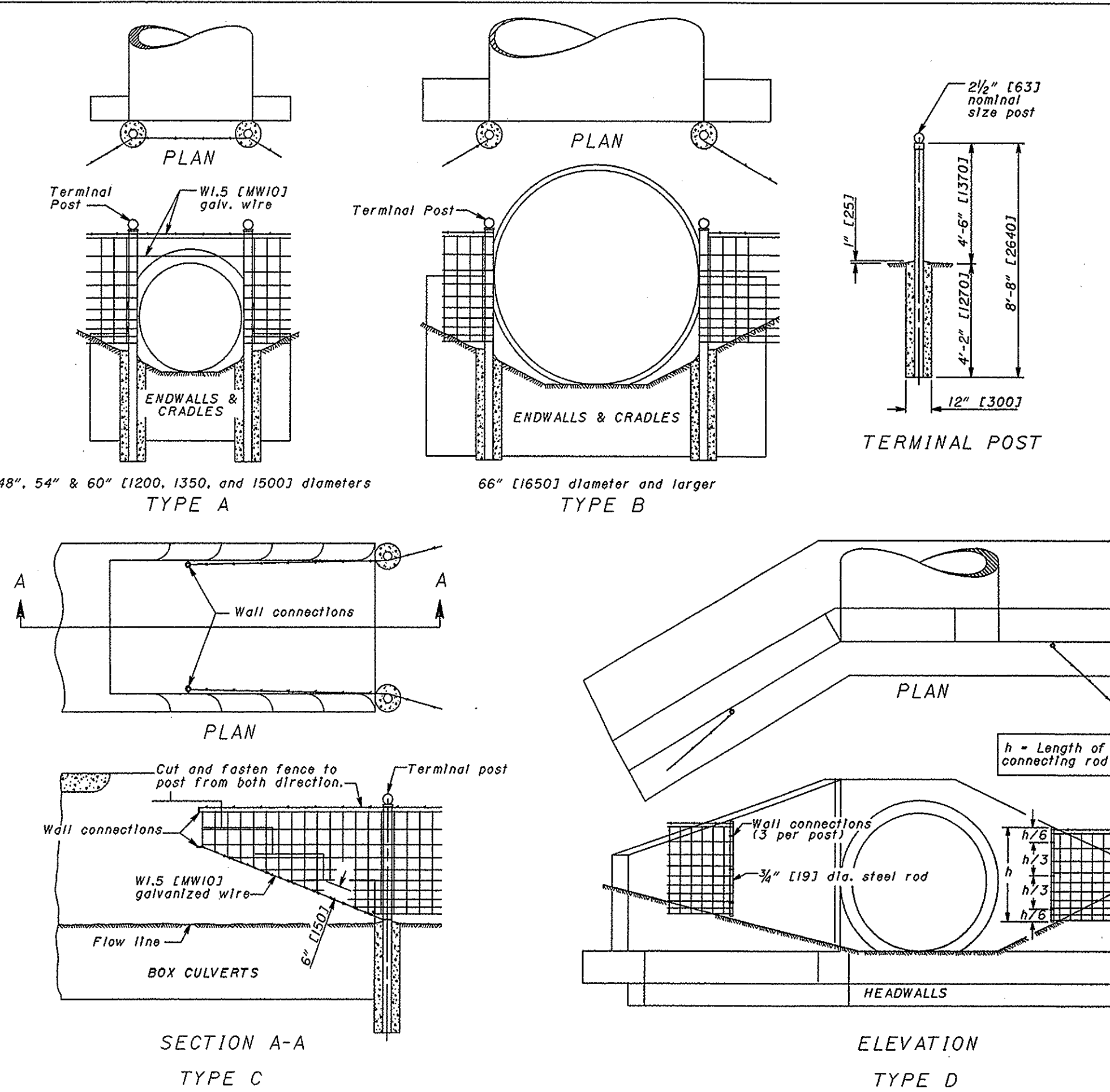
BRACES: Wood braces shall be set in notches in the posts and fastened with 16d nails.

POSTS: Concrete encasement and tamped earth or aggregate shall be omitted when wood posts are driven to grade, except for line posts in a dip section.

Posts set or driven to within 1" (25) of grade need not be trimmed.

FABRIC: Other methods for splicing wire fence may be used in lieu of the method shown, when approved by the Engineer.

TYPE 47RA FENCE: Type 47RA shall be used to fence rest areas. Where Types 47 and 47RA intersect at a corner, the corner assembly shall have all wood braces. Fence shall be paid for as Item 607 - Fence, Type 47RA.



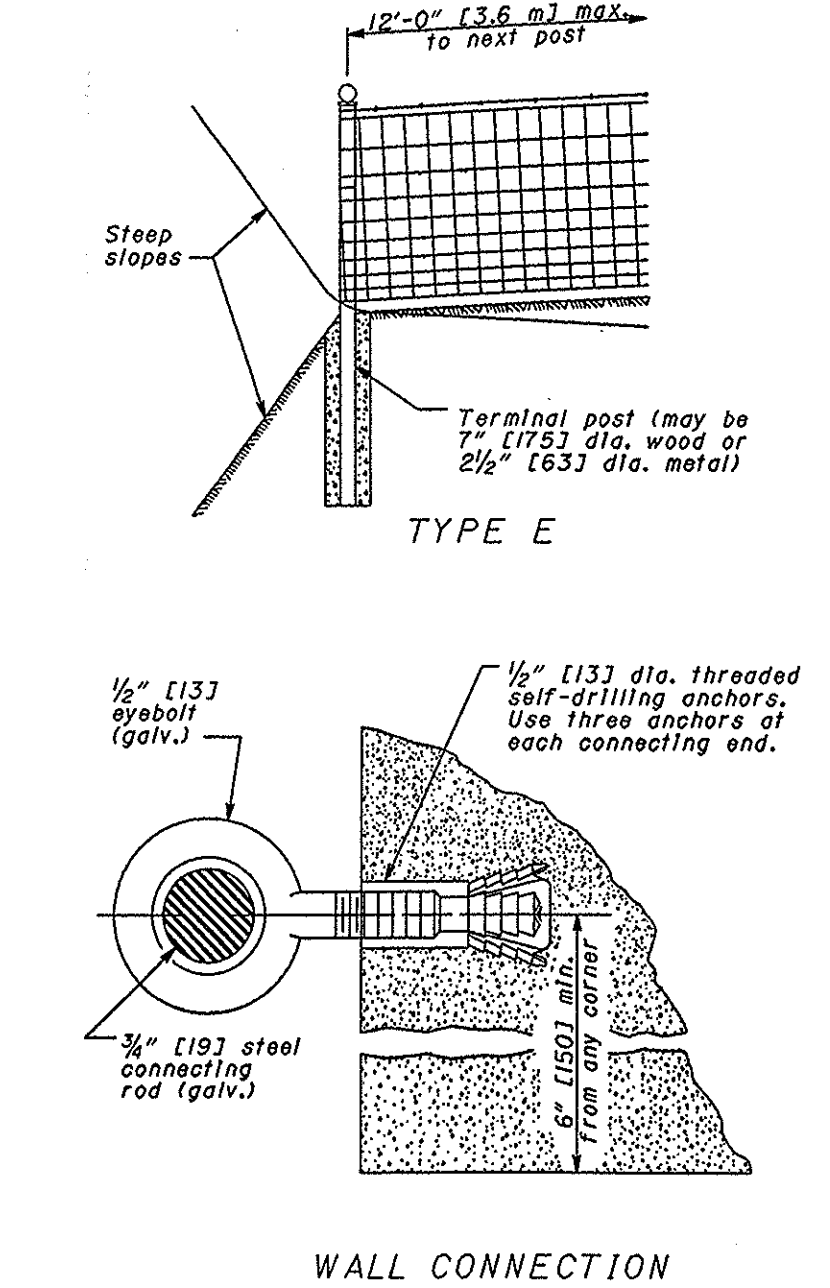
NOTES

FENCE TYPE: Fence terminals shown on this drawing apply to Type 47 Fence as detailed, however, the same designs may be used in the construction of all types of fence if modified for differences in basic design such as anchor assembly, height of fence, length of panel, or any other variance that would affect the terminal design.

Cost of furnishing and installing connecting rods, eyebolts and anchors for wall connections shall be included in the unit price bid per meter of fence.

ANCHORS: Self-drilling anchors shall conform to CMS 712.01. Threaded steel inserts may be cast-in-place when the structure is constructed, instead of using self-drilling anchors.

EYEBOLT: The steel shall be in accordance with ASTM A 489, except that the band fast is welded. The eyebolt shall be galvanized in accordance with ASTM A 153.



CONSULTING ARCHITECTS & ENGINEERS

ARCHITECT: **OFFICE OF THE STATE ARCHITECT**

MECHANICAL, ELECTRICAL & STRUCTURAL: **GRA, INC.**

STRUCTURAL: **KZF DESIGN**

LANDSCAPE ARCHITECTURE: **KINZELMAN KLINE**

REVISIONS

NO.	DATE	DESCRIPTION

FOR:

OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:

DETAILS - ODOT STANDARD DRAWINGS

PROJECT NO. 770-2003-074

I-70 / LICKING COUNTY REST AREA

STATE OF OHIO

DEPARTMENT OF ADMINISTRATIVE SERVICES

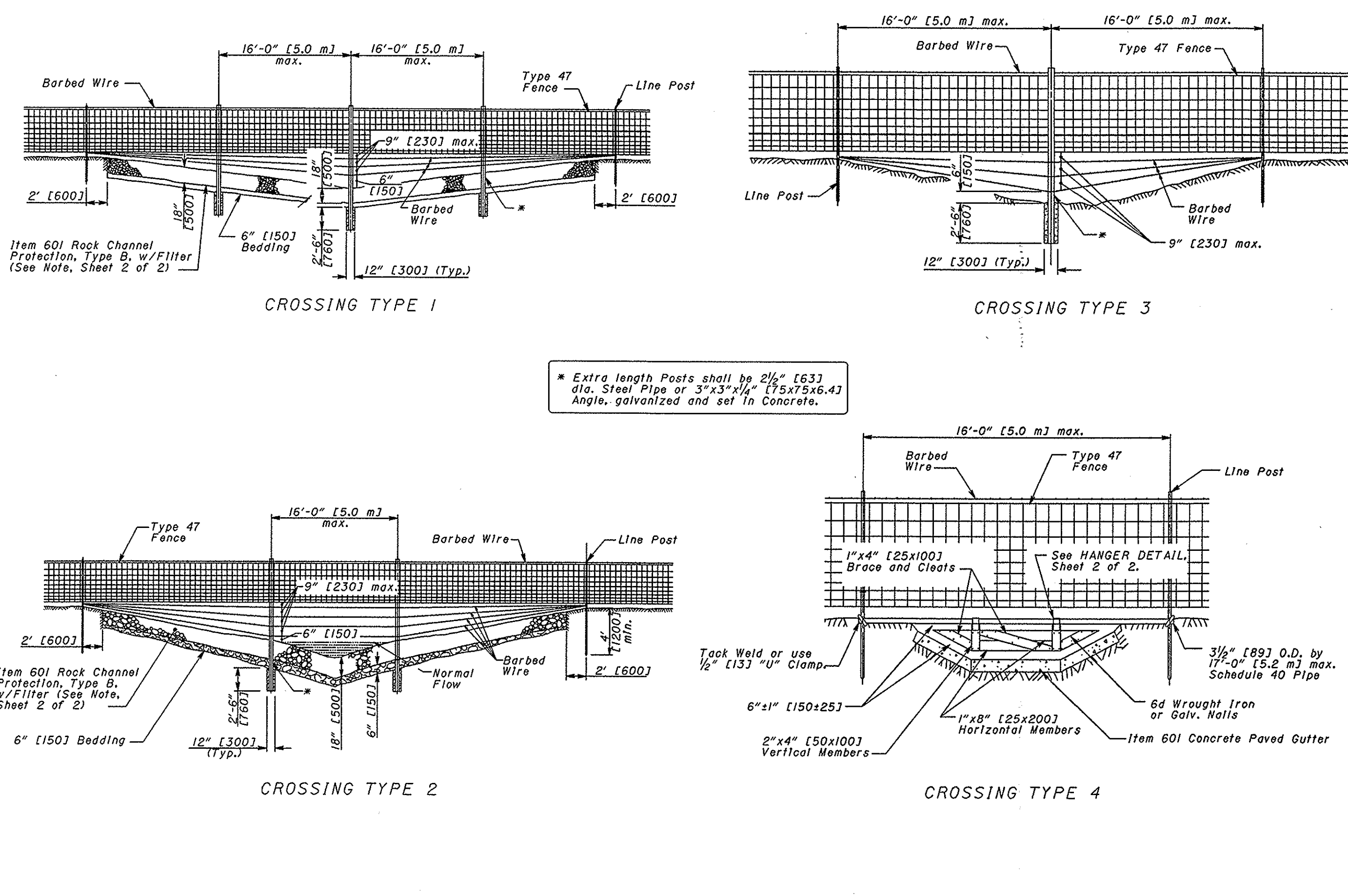
GENERAL SERVICES DIVISION

PREPARED BY: **OFFICE OF THE STATE ARCHITECT**

PLOT DATE: 20 JULY, 2004

DATE: AUGUST, 2004

C5.05

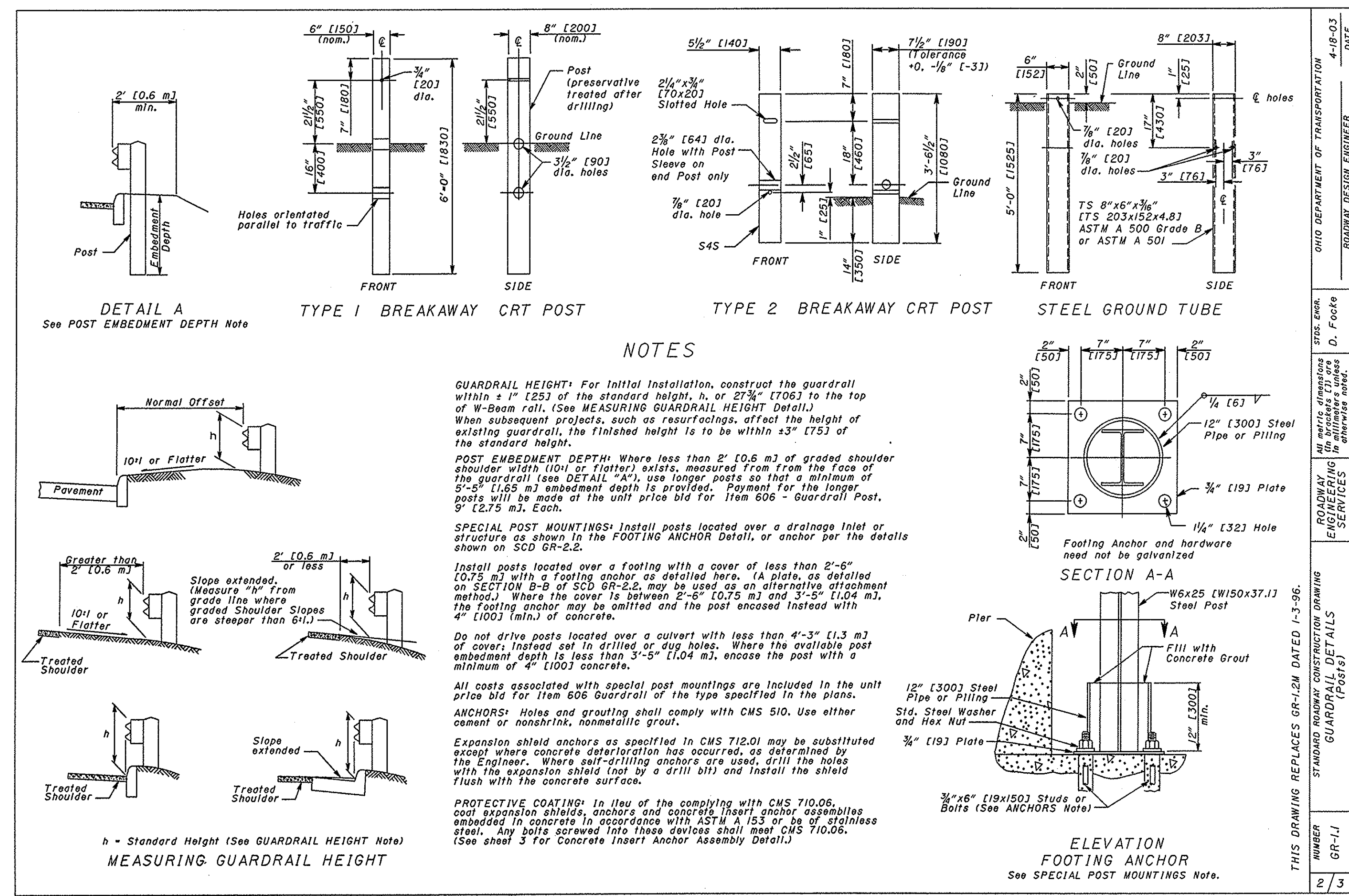


7-28-00

FENCE DETAILS

F-3.4

1/2



OHIO DEPARTMENT OF TRANSPORTATION

4-18-03

DATE

ROADWAY DESIGN ENGINEER

STG. ENR.

D. Focke

ALL metric dimensions in millimeters unless otherwise noted.

ROADWAY ENGINEERING SERVICES

THIS DRAWING REPLACES GR-1.2M DATED 1-3-96.

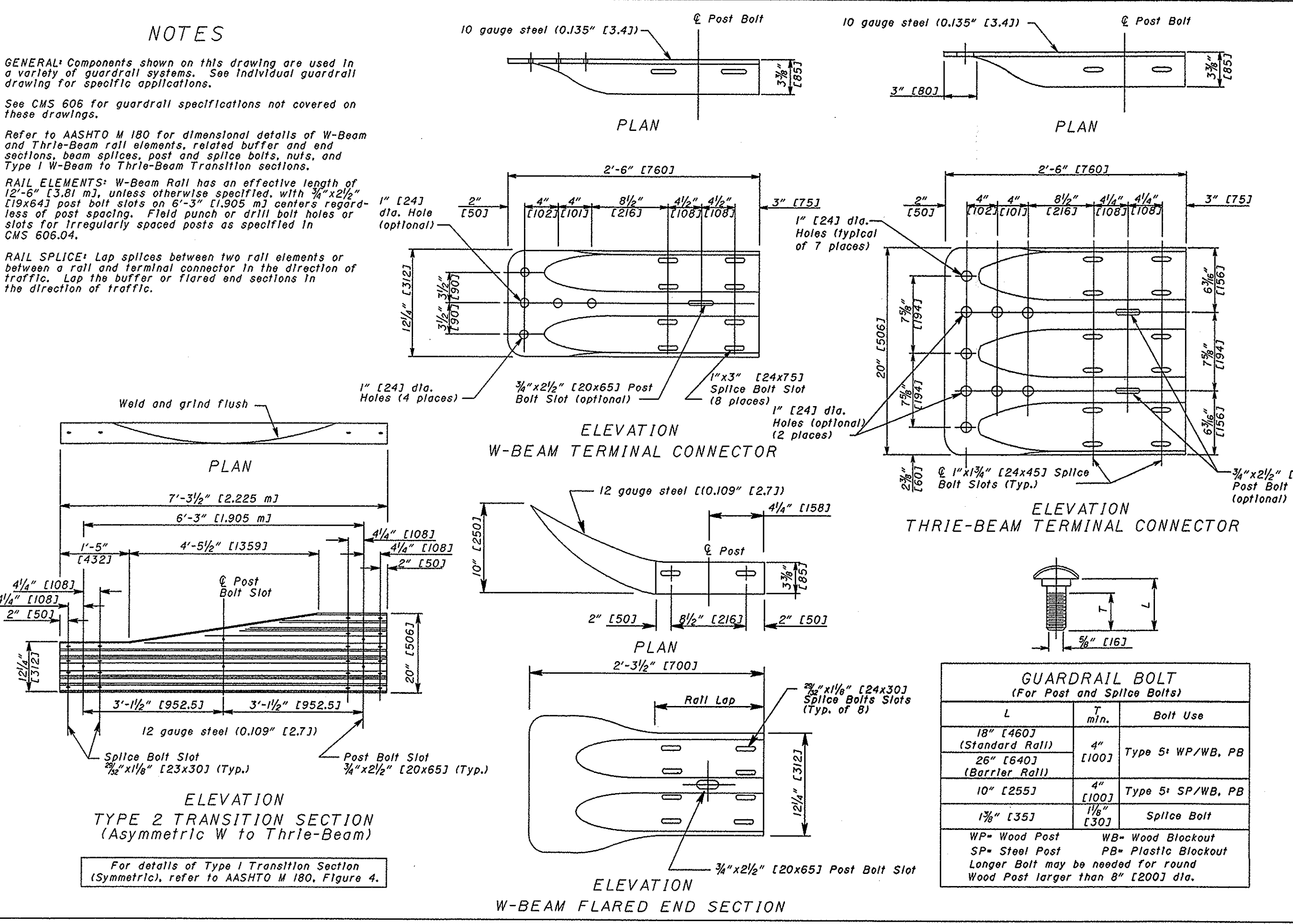
STANDARD ROADWAY CONSTRUCTION DRAWING

GUARDRAIL DETAILS

GR-1.1

NUMBER

2/3



THIS DRAWING REPLACES GR-1M DATED 10-21-97.

STANDARD ROADWAY CONSTRUCTION DRAWING

GUARDRAIL DETAILS

(Rail Components)

GR-1.1

NUMBER

1/3

CONSULTING ARCHITECTS & ENGINEERS

OFFICE OF THE STATE ARCHITECT

MECHANICAL, ELECTRICAL & STRUCTURAL

SRA, INC.

ATTENDING

KZF DESIGN

LANDSCAPE ARCHITECTURE

KINZELMAN KLINE

REVISIONS

NO.	DATE	DESCRIPTION

FOR:

OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:

DETAILS - ODOT STANDARD DRAWINGS

PROJECT NO. 770-2003-074

I-70 / LICKING COUNTY REST AREA

STATE OF OHIO

DEPARTMENT OF ADMINISTRATIVE SERVICES

GENERAL SERVICES DIVISION

PREPARED BY:

GENERAL SERVICES DIVISION

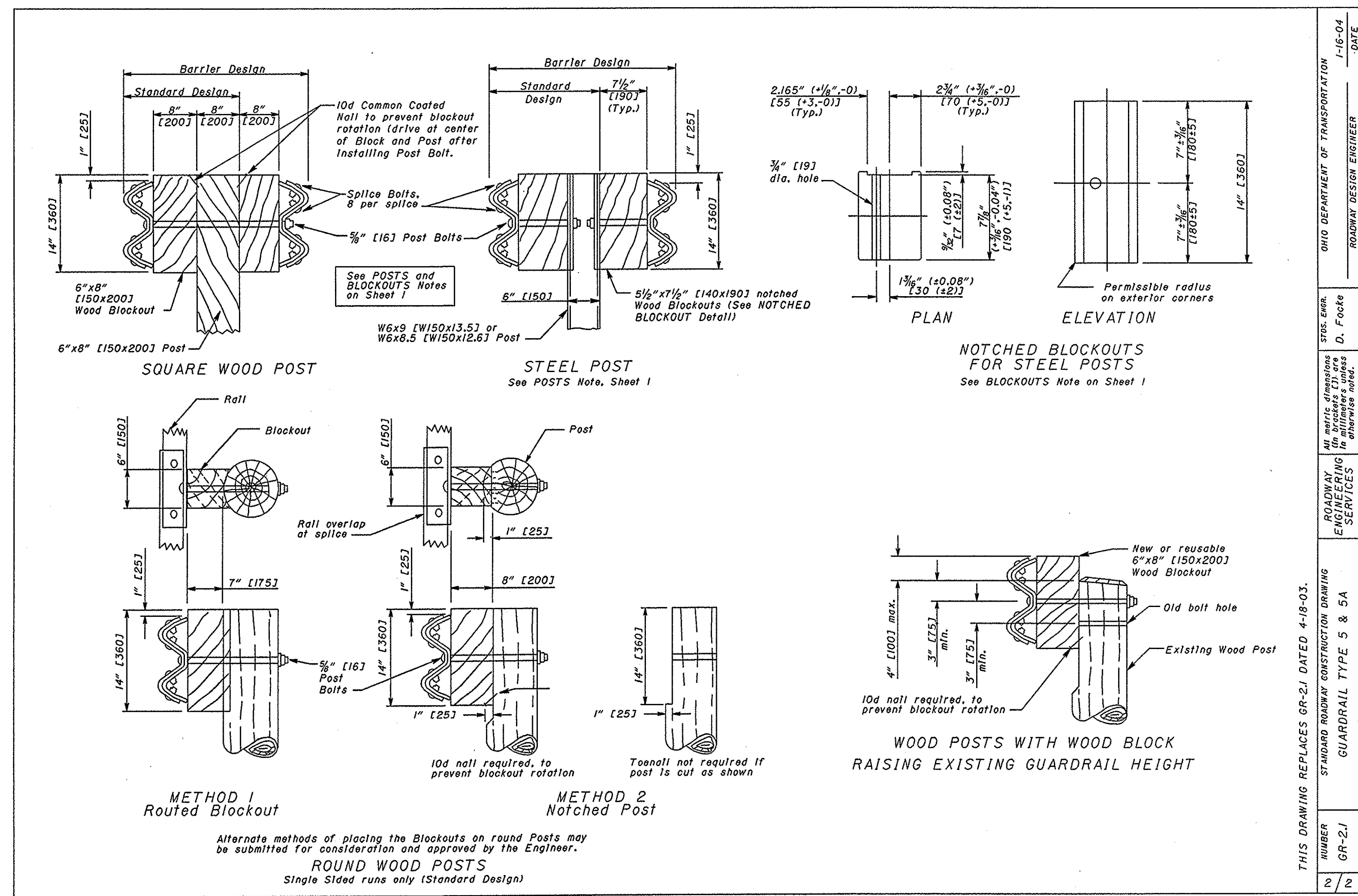
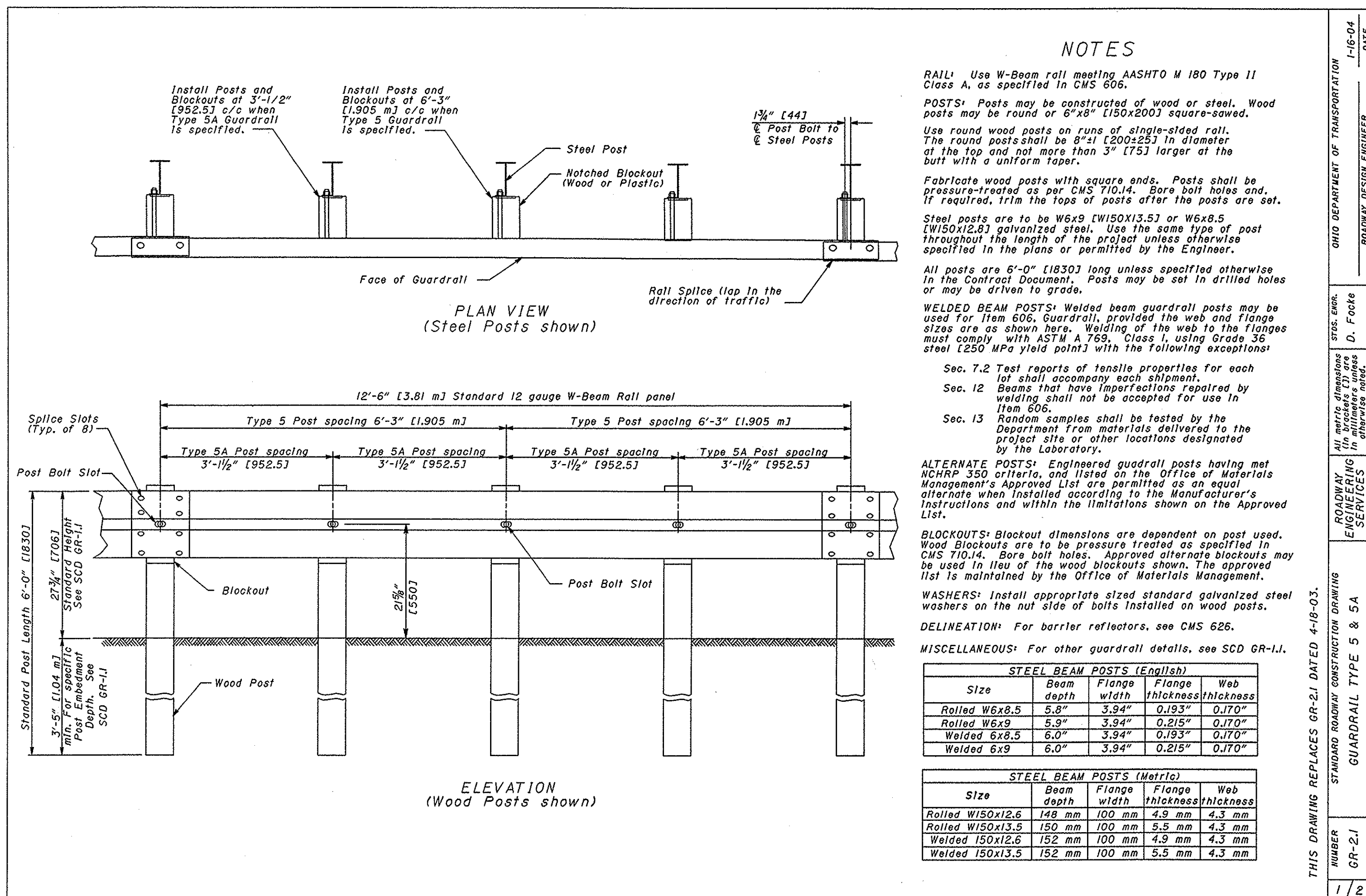
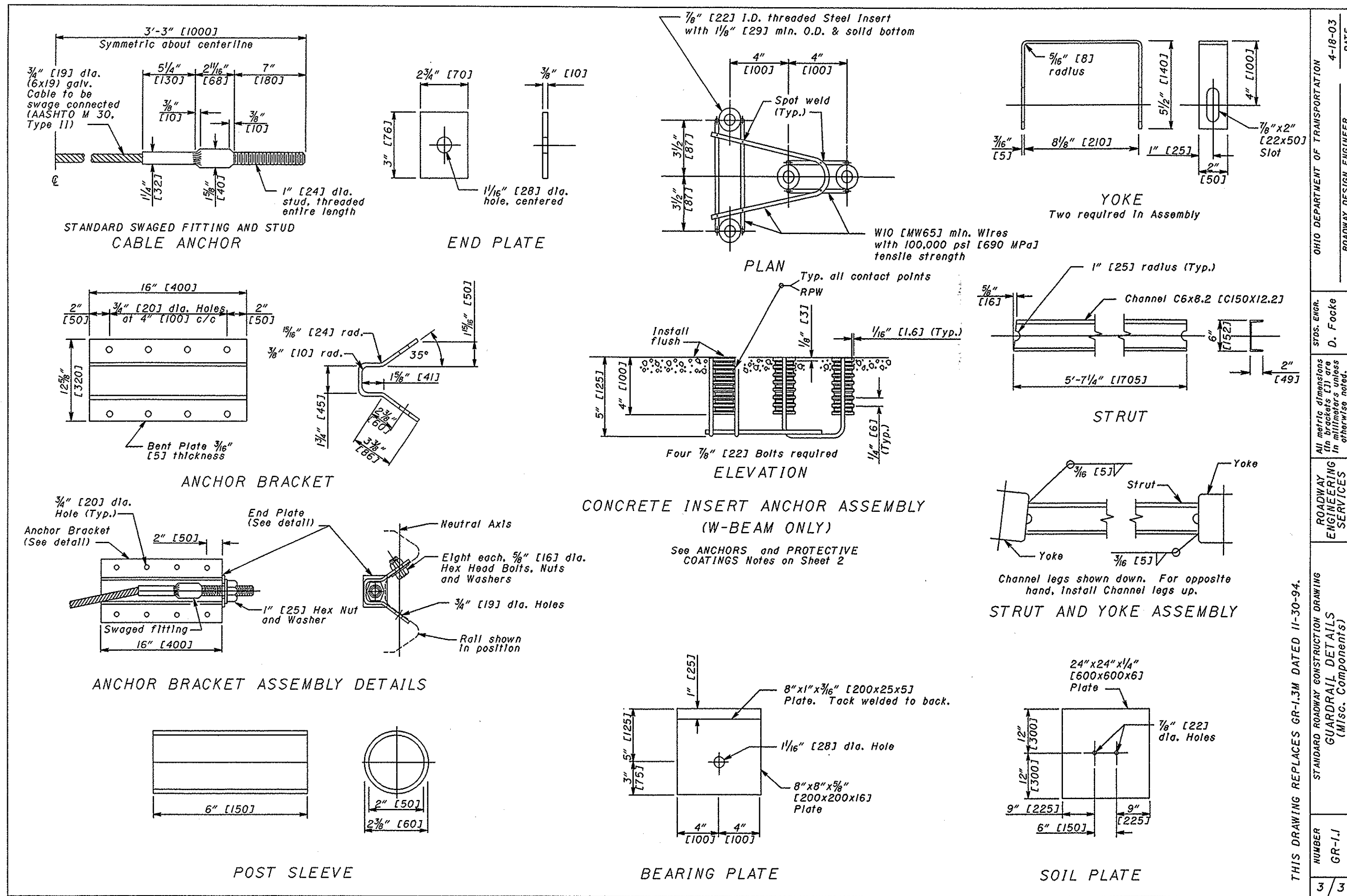
OFFICE OF THE STATE ARCHITECT

DATE

20 JULY, 2004

AUGUST, 2004

C5.06



CONSULTING ARCHITECTS & ENGINEERS

OFFICE OF THE STATE ARCHITECT

MECHANICAL, ELECTRICAL & STRUCTURAL

SRA, INC.

KZF DESIGN

LANDSCAPE ARCHITECTURE

KINZELMAN KLINE

REVISIONS		
NO.	DATE	DESCRIPTION

FOR:

OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:

DETAILS - ODOT STANDARD DRAWINGS

PROJECT NO. 770-2003-074

I-70 / LICKING COUNTY REST AREA

STATE OF OHIO

DEPARTMENT OF ADMINISTRATIVE SERVICES

GENERAL SERVICES DIVISION

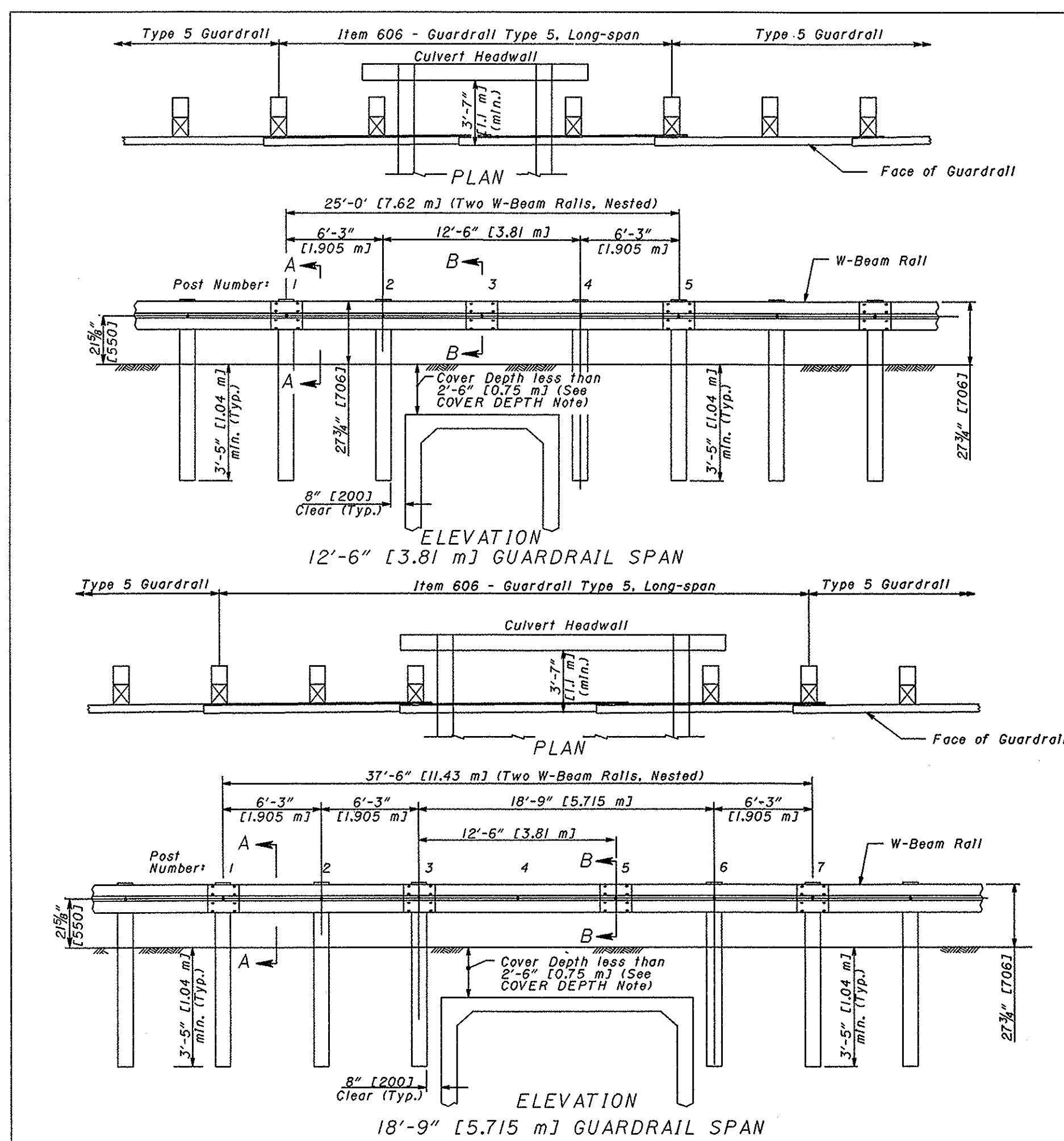
OFFICE OF THE STATE ARCHITECT

PREPARED BY: **BRYAN MICHAEL BENDER**

DATE: **20 JULY, 2004**

DATE: **AUGUST, 2004**

C5.07



NOTES

APPLICATION: This drawing covers two span lengths, 12'-6\"/>

12'-6\"/>

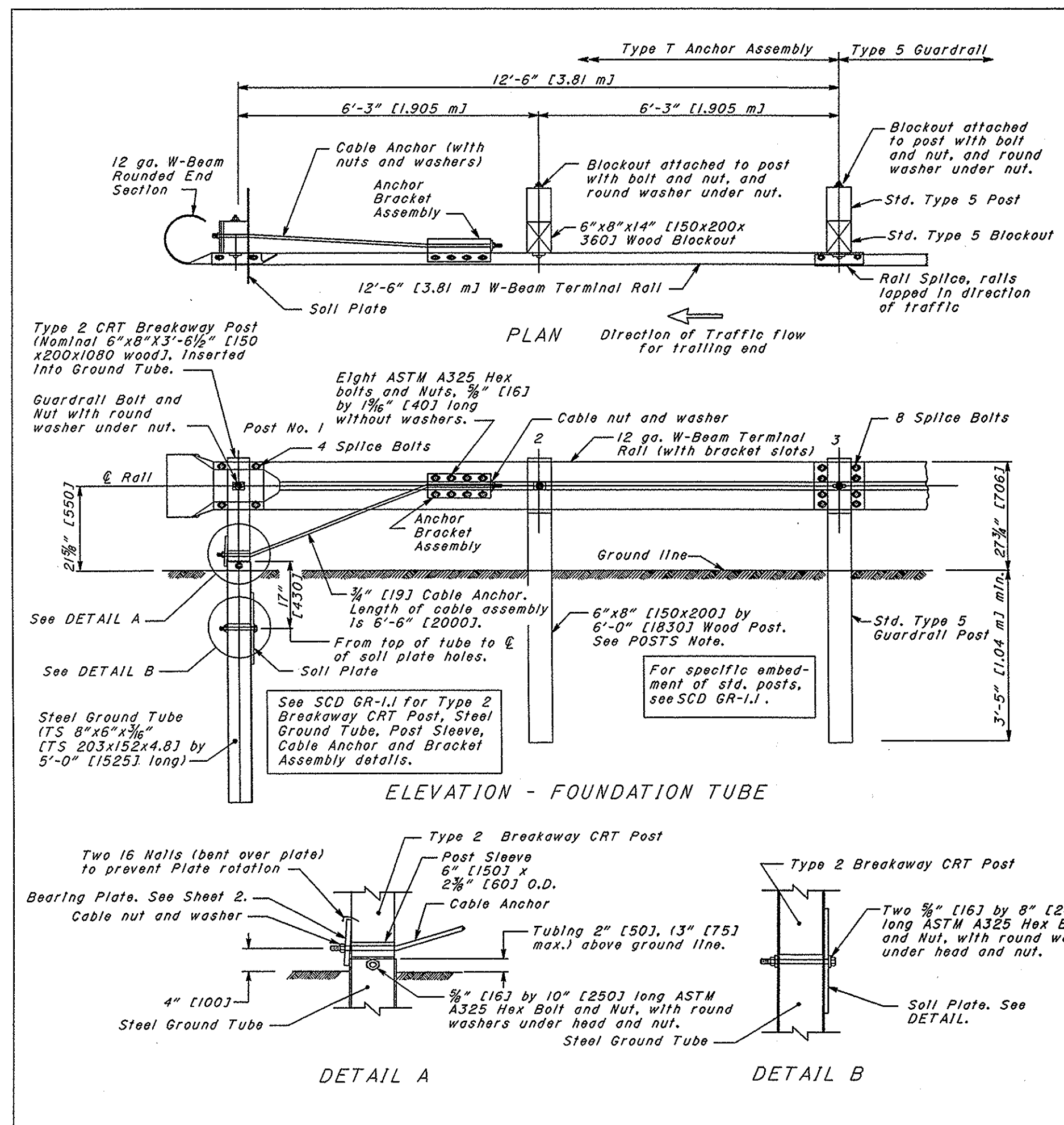
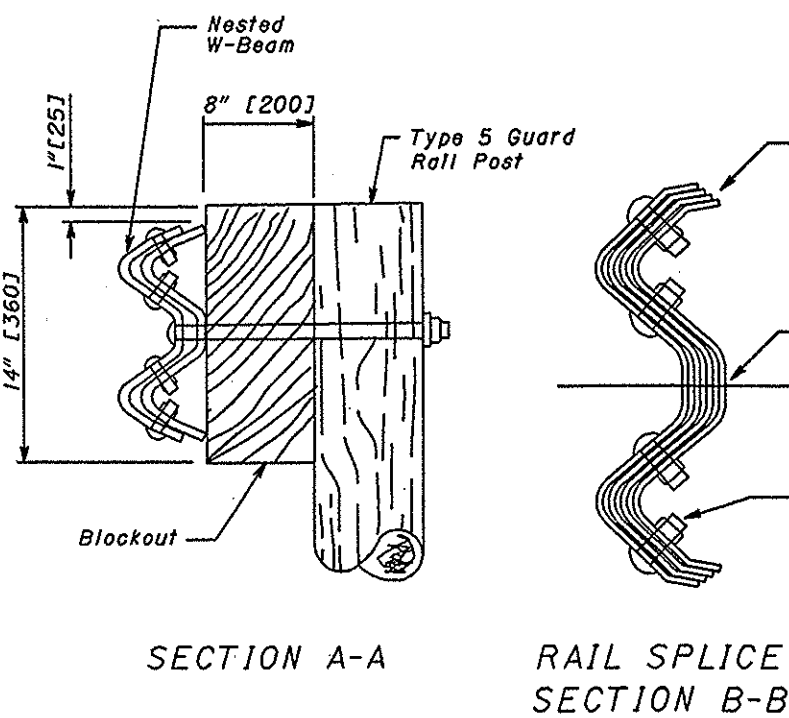
18'-9\"/>

COVER DEPTH: This depth is measured at the locations of the missing posts. For cover depths greater than or equal to 2'-6\"/>

FLARED ENDS: Install these systems with either one or both ends flared away from the traveled way. For locations where a guardrail flare will be used, the minimum recommended length of tangent section adjacent to the unsupported length is 25' (7.62 m). Taper rates should be as shown on SCD GR-5.1.

MATERIALS: All posts, blockouts, rails, and hardware shall comply with Item 606, Guardrail Type 5, as detailed on SCD GR-2.1. For other details not shown, see SCD GR-1.1.

PAYMENT: Item 606 - Guardrail, Type 5, Long-span is paid for in Feet (Meters) for the length specified in the plans and includes the double rail elements, blockouts, posts, and the hardware, materials and labor required to construct the guardrail as shown.



NOTES

APPLICATION: Use Type T Anchor Assemblies on the trailing end of guardrail runs, located outside of the clear zone of opposing traffic. The assembly is 12'-6\"/>

For termination requirements at driveways, see DRIVEWAY OPENING Detail on Sheet 2. For side road approaches and terminals at structures, see Location & Design Manual, Volume 1, Figure 603-3.

ANCHORING OPTIONS: Contractor may choose either the foundation tube (shown on this sheet) or the concrete footing option (Sheet 2) to construct this anchor assembly.

If the foundation tube option is chosen, the contractor will take proper care to insure that the Soil Plate fasteners are not broken during the driving process.

Concrete footings may be cast-in-place or precast. Compact fill after placing precast unit.

MATERIALS: See SCD GR-1.1 for parts used on this anchor, including the CRT Breakaway Posts, Steel Ground Tube, Post Sleeve, Cable Anchor and Bracket Assembly.

Bearing Plate and Soil Plate is ASTM A709 Grade 36. Steel Ground Tube shall be ASTM A500, Grade B, and meet CMS 707.10. All angles, channels and plates shall meet CMS 711.01. All structural steel shall be galvanized as specified in CMS 711.02. All bolt washers indicated are standard galvanized steel of the appropriate size.

Concrete shall be class C.

Components on this anchor that are not detailed on SCD GR-1.1 include: 1) 12'-6\"/>

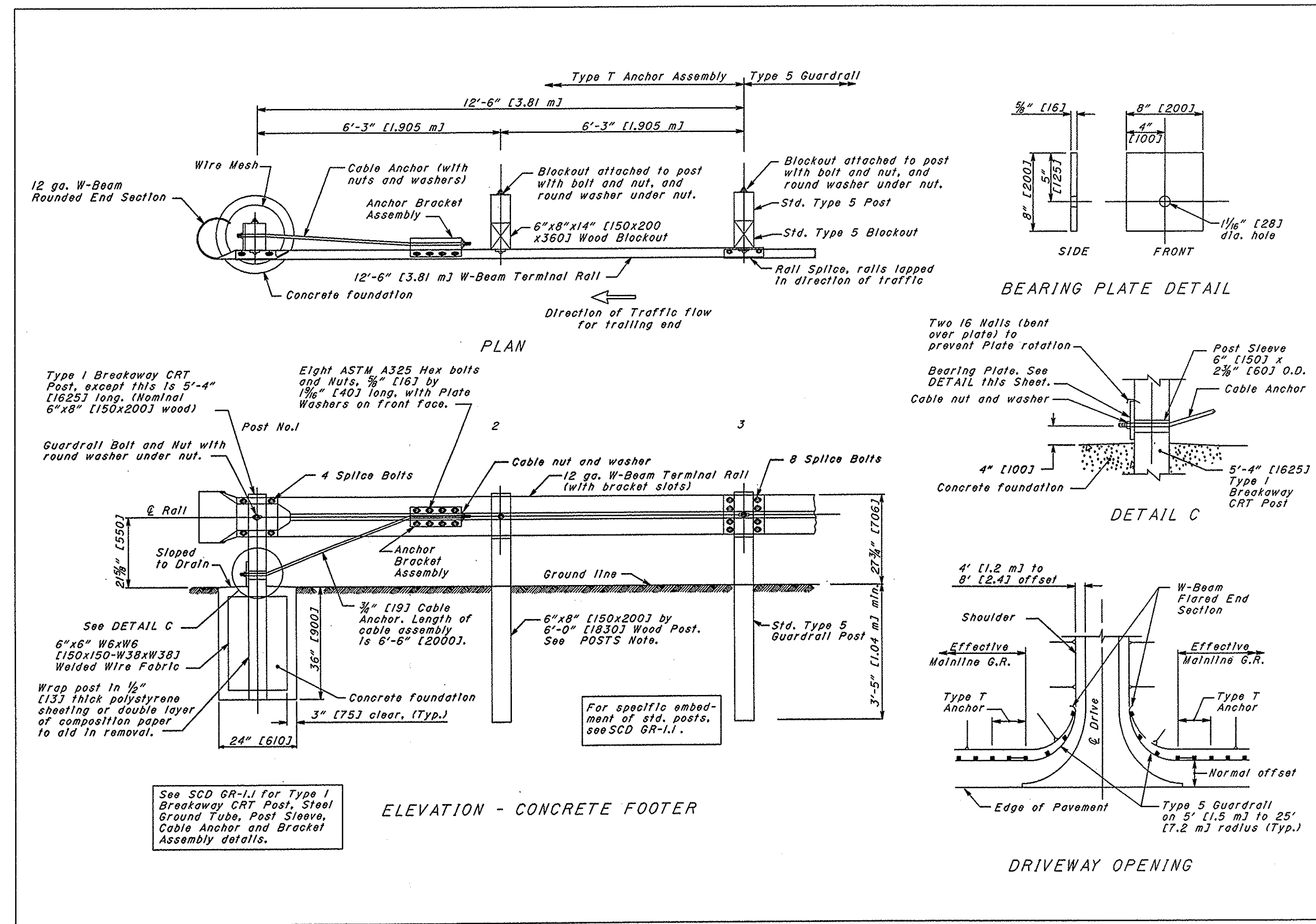
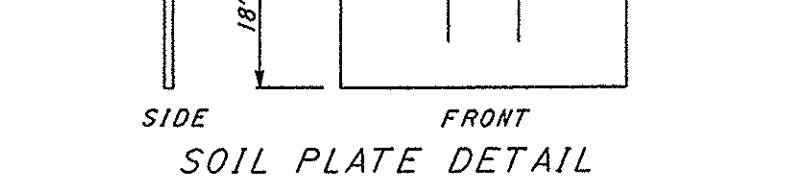
See SCD GR-2.1 for Type 5 Guardrail Details.

POSTS: Post No. 2 can be W6x8 (W150x13.9) or W6x8.5 (W150x12.9) with notched wood blockouts.

Use of alternate posts or recycled plastic blockouts is not permitted.

PAYMENT: All labor and materials, including the W-Beam Rounded End Section and the W-Beam Terminal Rail for the 12'-6\"/>

Item 606 - Anchor Assembly, Type T, Each.



CONSULTING ARCHITECTS & ENGINEERS
OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL & STRUCTURAL
SRA, INC.
SITEWORK
LANDSCAPE ARCHITECTURE
KINZELMAN KLINE

STATE OF OHIO
BRYAN MICHAEL BENDER
E-66022
REGISTERED PROFESSIONAL ENGINEER

FOR:
OHIO DEPT. OF TRANSPORTATION
DRAWING DESCRIPTION:
DETAILS - ODOT STANDARD DRAWINGS
PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA
STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

NO. DATE DESCRIPTION
1 07/20/2004
2 08/02/2004

NOT DATE
20 JULY, 2004
AUGUST, 2004
C5.08

ODOT DEPARTMENT OF TRANSPORTATION	DATE
ROADWAY DESIGN ENGINEER	10-17-03
STDS. ENGR.	D. FOSTE
ALL metric dimensions in parentheses unless otherwise noted.	
ROADWAY CONSTRUCTION DRAWING	
TYPE T ANCHOR ASSEMBLY	
ENGINEERING SERVICES	
THIS DRAWING REPLACES GR-4.2 DATED 4-18-03.	
STANDARD ROADWAY CONSTRUCTION DRAWING	
NUMBER	GR-4.2
1	2

FILL TO FILL

CUT TO FILL

OBSTRUCTION

SECTION A-A

NOTES

APPLICATION: Utilize details shown here only where approach foreslopes are steeper than 6:1, but not steeper than 3:1.

"SLOPES: Slopes designated by * shall be 3:1 or flatter. Slopes labeled "A" and "B" shall be constructed as specified in the plans.

"LON" DISTANCE: The Length of Need, LON, represents the distance from the control point to the beginning of the end treatment. The control point shown designates the extent of the hazard being shielded and is shown for design use only. See Location & Design Manual, Volume I, Section 602.

GUARDRAIL END TERMINALS: Terminals utilized for the situations shown here shall be Type E-98 Anchor Assemblies unless otherwise specified in the plans.

OBSTRUCTION INSTALLATION: Use this installation for one-directional roadways only.

OFFSET DESIGN: The design shown may be specified on the plans where it is deemed detrimental to lose effective shoulder width due to the dimensions of the Type E-98 Anchor Assembly. The Type E-98 which represents the final 50" [15.24 m] of guardrail is to be offset an additional 9" [225] from the normal guardrail offset by tapering within the 12'-6" [3.81 m] shown below. The graded shoulder width shall be increased 9" [225] and tapered back to the normal width to 10' [3 m] as shown.

OFFSET DESIGN (Plan View)

CATCH BASINS No. 2-3 & No. 2-4

NOTES

GRATE:
Use Heenech Foundry Grate No. R-4859-C, Cast Iron

As of January 1, 2003, the following text shall be cast into the top of the grate:

"DUMP NO WASTE" and "DRAINS TO WATERWAY"

Text shall be printed in bold, capital letters with a minimum height of 1/2". "WATERWAY" may be replaced with "DRAINAGE" or "SEWERAGE" as appropriate. Actual placement and logo markings shall be determined by the manufacturer.

WALLS: Brick or cast-in-place walls shall have a nominal thickness of 8" (200). Precast walls shall have a minimum thickness of 8" (200) and be reinforced sufficiently to permit shipping and handling without damage. Precast tops shall be 8" (200).

STEPS: Steps shall be provided where the depth exceeds 6" (1.8 m) and shall meet the requirements of SCD MH-1.1.

CONCRETE: Cast-in-place concrete is to be Class C. All precast elements shall meet the requirements of CMS 706.13 and be marked with the catch basin number.

REINFORCEMENT: Reinforcing in the top is to be #4 (#13M) bars spaced at 8" (200) center to center. For Catch Basin No. 2-3 use eight bars and for Catch Basin No. 2-4 use twelve bars.

INLETS OVER 12 FEET (3.5 m) IN DEPTH: Shall be 12" (300) or greater concrete reinforced with #4 (#13M) bars over 12" (300) centers both vertically and horizontally with 2" (50) clearance from walls.

PRECAST BASE: If a precast base is used, it shall be set deep enough so that the top can be placed on the base to provide the grate elevation specified in the plans. Layers of brick shall not be used to adjust the top elevation.

LOCATION AND ELEVATION: When given on the plans, the location and the elevation are of the top of the grate. When side inlets are provided, the elevation shall be of the flow line of the side inlet.

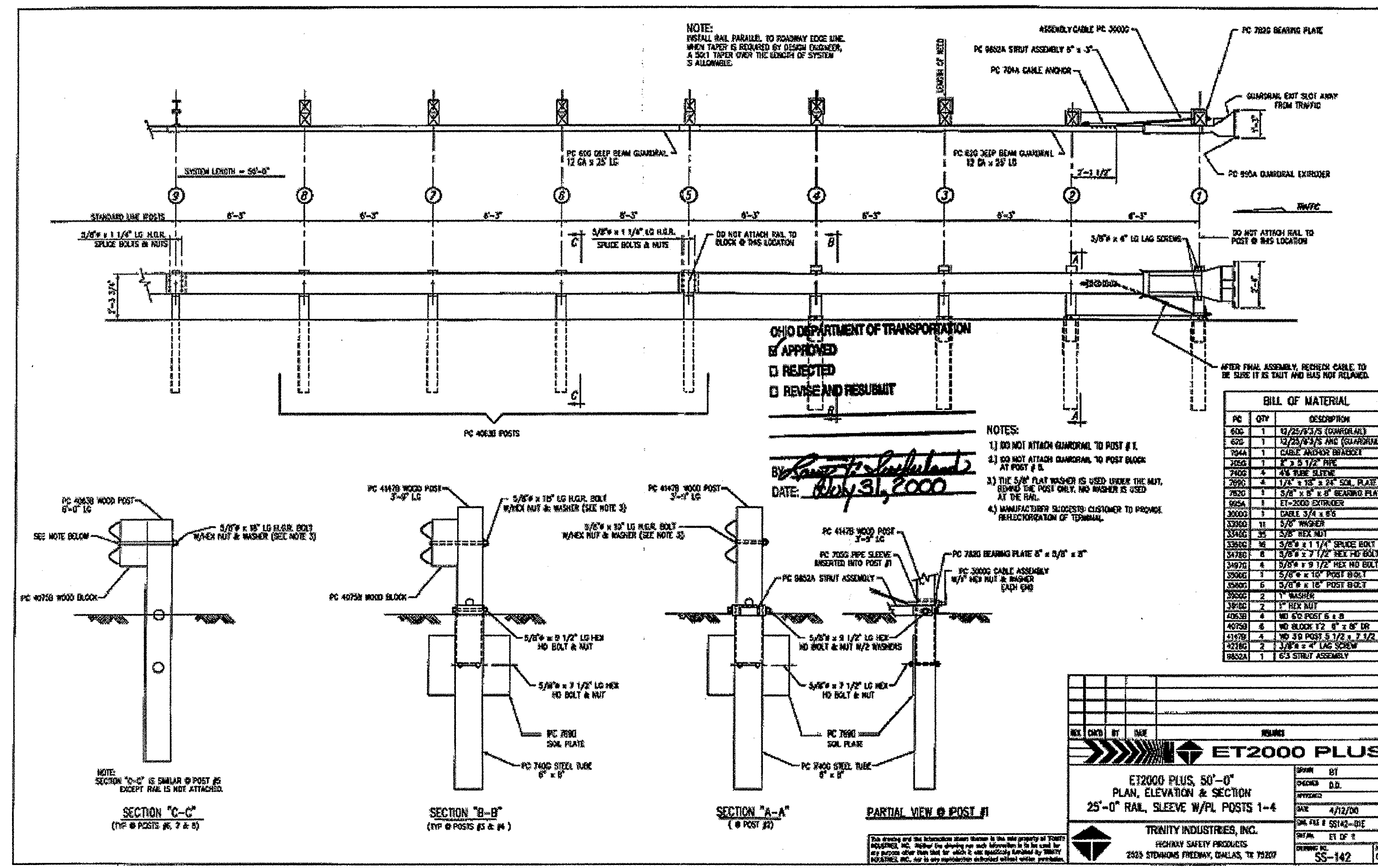
MINIMUM DEPTH: The minimum depth of CB No. 2-3 and CB No. 2-4 shall be the outside diameter (O.D.) of the outlet pipe plus 7" (175).

OPENINGS: Pipe openings shall be the O.D. of the pipe being supplied plus 2" (50) when prefabricated or field cut. The Interstitial openings shall be filled with a grout per SCD.

SIDE INLETS: Inlets shall be provided on both sides of the No. 2-3 and 2-4 catch basin in sags and on upstream side only where the ditch is not a sag. Inlets shall not be used with Catch basins with side inlets shall not be used within the Clear Zone.

PAYMENT: All materials and labor, including excavation and backfill, shall be paid for under Catch Basin No. 2-3 or Item 604 - Catch Basin No. 2-4.

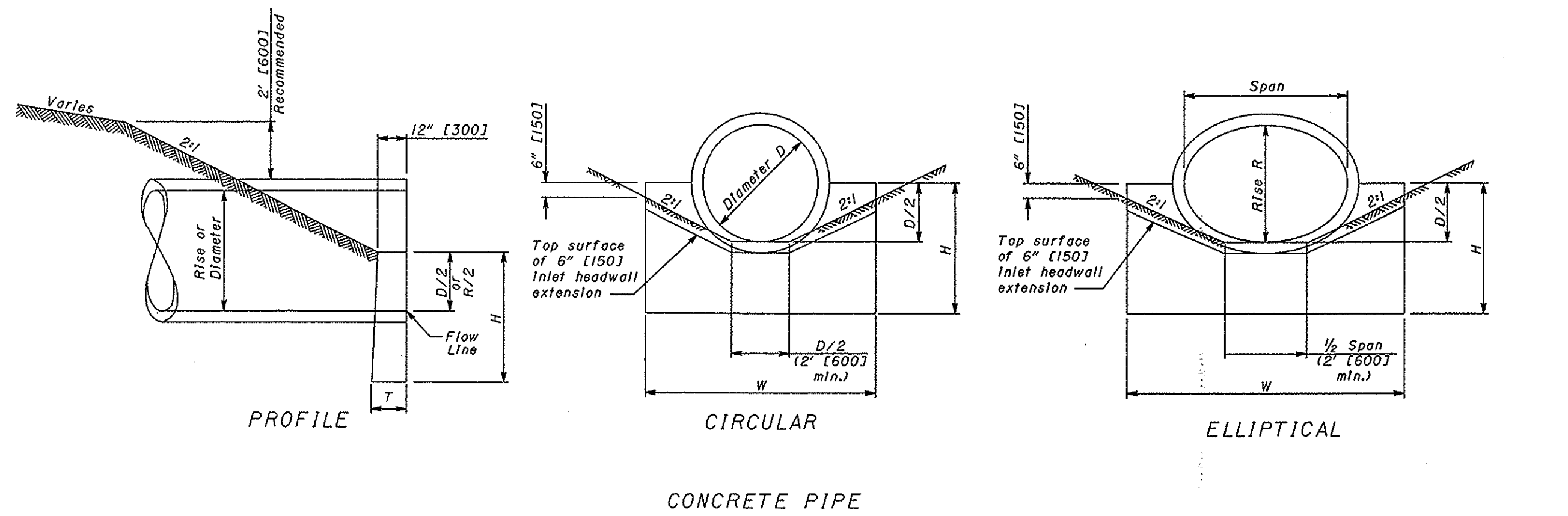
CATCH BASIN	OUTLET PIPE SIZE
2-3	12" (300) to 24" (600)
2-4	12" (300) to 30" (750)



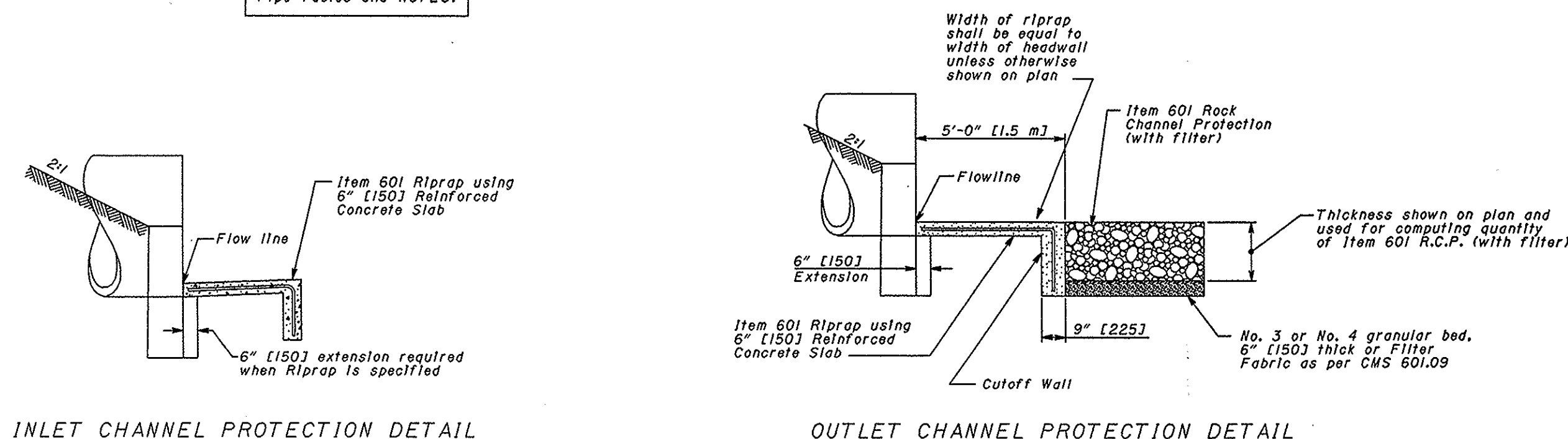
BILL OF MATERIAL		
PC	QTY	DESCRIPTION
600	1	1/2" 20 X 1/2" (CONGRUAL)
602	1	1/2" 25 X 1/2" NUT (CONGRUAL)
7044	1	CABLE ANCHOR BUSH
7056	1	3" x 5/8" 1/2" PIPE
7405	4	4# TUBE STUDS
7406	1	1/2" 20 X 1/2" SPRING PLATE
7407	1	3/4" x 1/2" x 1/2" BEARING PLATE
7654	1	E1-2000 EXTRACTOR
30002	3	CABLE 3/4" x 6'
33002	1	3/8" WAGON
33405	3	2" X 1/2" HUB
34002	1	1/2" 20 X 1/2" SPRING BOLT
34782	8	5/8" x 7 1/2" HEX NUT 600
34782	4	5/8" x 9 1/2" HEX NUT 600
35002	1	5/8" x 8" POST 80-1
35002	6	5/8" x 8" POST 80-1
35002	2	1" HEX NUT
40038	1	600 602 POST 5 x 8
40760	4	WD BLOCK 12" 8" x 6" DR
41760	4	WD BLOCK 8" 5 1/2" x 7 1/2"
42662	2	1" X 2" X 1/2" SCREW
80024	1	603 STRUT ASSEMBLY

[illegible]

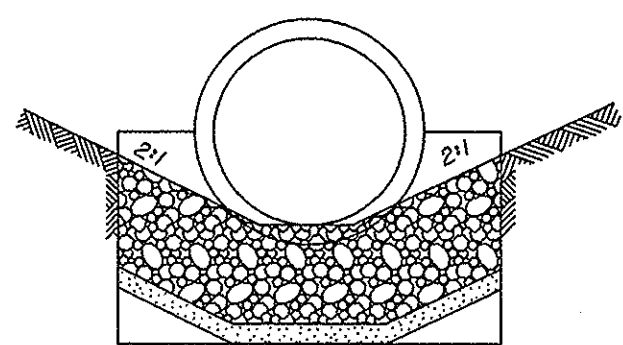
CONSULTING ARCHITECTS & ENGINEERS			
ARCHITECT OFFICE OF THE STATE ARCHITECT MECHANICAL, ELECTRICAL & STRUCTURAL SRA, INC.			
SITS/CITY/CL: KZF DESIGN LANDSCAPE ARCHITECTURE KINZELMAN KLINE			
REVISIONS			
NO.		DATE	DESCRIPTION
FOR:			
OHIO DEPT. OF TRANSPORTATION			
DRAWING DESCRIPTION:			
DETAILS - ODOT STANDARD DRAWING			
PROJECT NO. 770-2003-074			
I-70 / LICKING COUNTY REST AREA			
STATE OF OHIO			
DEPARTMENT OF ADMINISTRATIVE SERVICES GENERAL SERVICES DIVISION			
PREPARED BY GENERAL SERVICES DIVISION OFFICE OF THE STATE ARCHITECT			
PLOT DATE	DATE	COUNT	
20 JULY 2004	AUGUST, 2004	C5	



See Sheet 2 of 2 for
Pipe Tables and NOTES.



The depth of the riprap cutoff wall (2'-6" [750] min.) shall match the thickness of the rock channel protection shown on the plan plus 6" [150].



Width of riprap and rock channel protection shall be equal to the width of headwall unless otherwise shown on the plans. (Minimum width 4'-0" [1.2 m].)

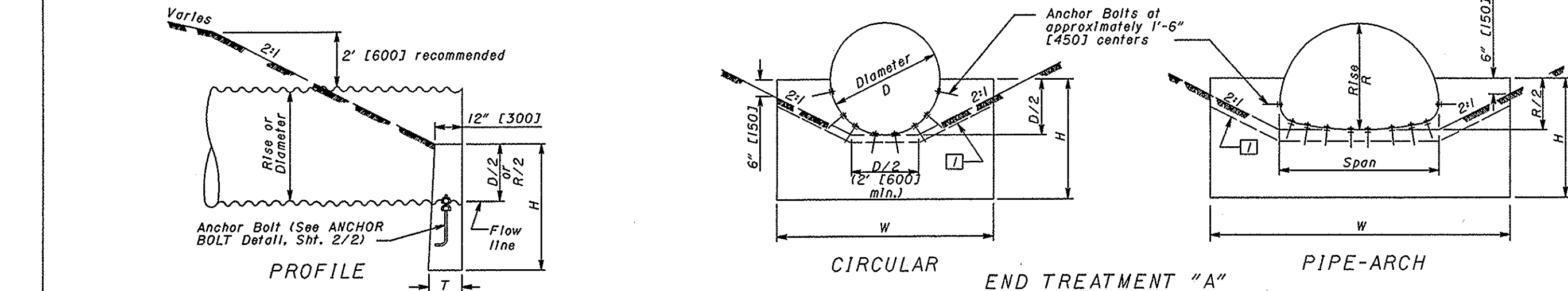
NOTES

GENERAL: If the pipe is depressed, a riprap reinforced concrete slab shall slope up to the channel bottom at a slope of 5 to 1 and terminate with a cutoff wall that has a depth of 6" [150] below the depression depth. Payment for the slab shall be made per square yard of Item 601 Riprap using 6" Reinforced Concrete Slab and shall include the cost of the cutoff wall. Reinforcing for the 6" reinforced concrete slab and cutoff wall shall be as shown on Standard Hydraulic Construction Drawing CB-3.1.

CONCRETE: Concrete for headwalls shall be Class C. Concrete quantities are based on headwalls without the 6" [150] extension under the channel protection.

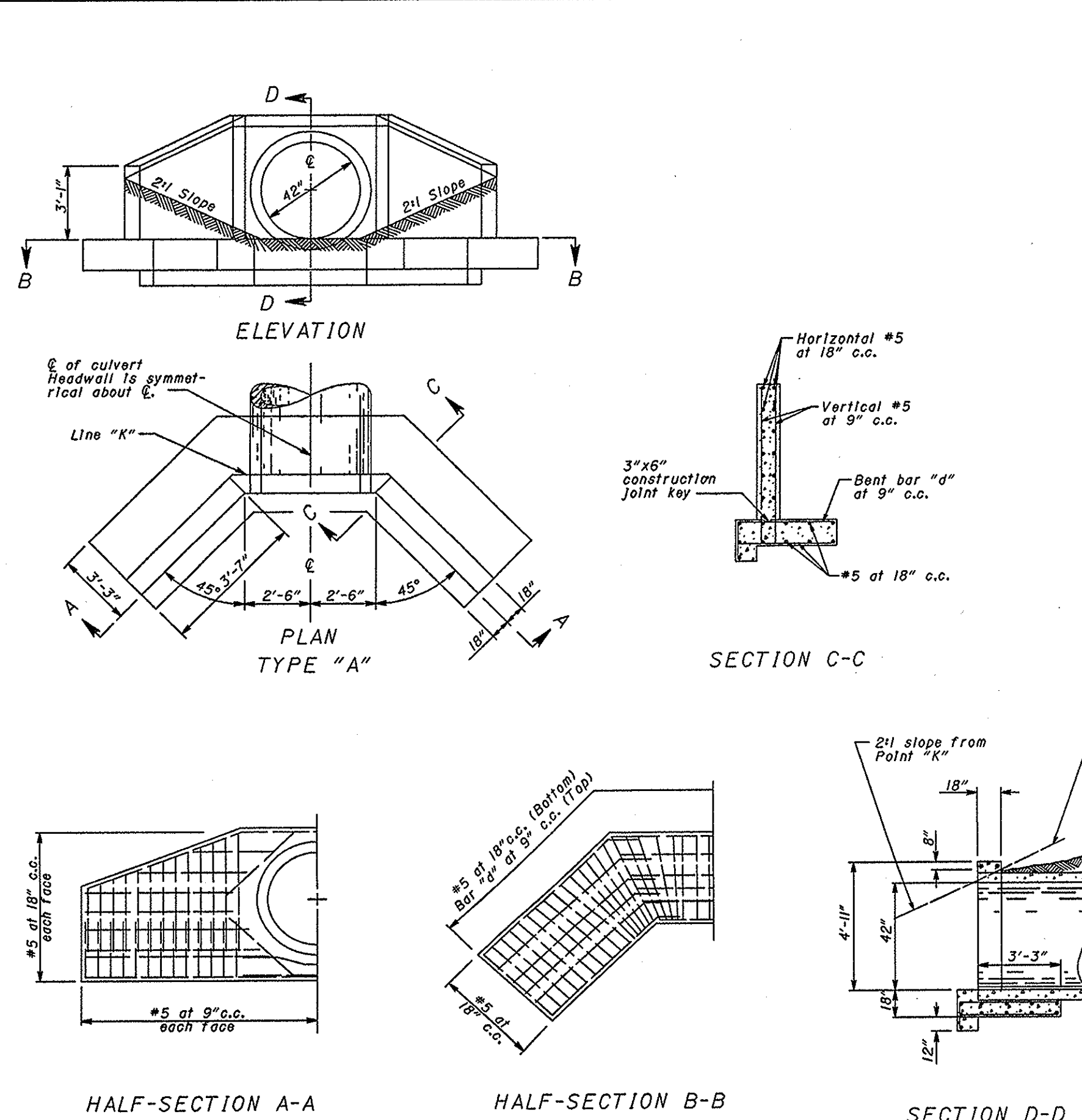
CIRCULAR				ELLIPTICAL			
D	W	H	T	Span	Rise	W	H
12"	2'-0"	3'-0"	12"	0.20	23"	14"	3'-2"
15"	2'-6"	3'-2"	12"	0.25	30"	18"	3'-4"
18"	3'-0"	3'-3"	12"	0.31	34"	22"	3'-5"
21"	3'-6"	3'-4"	12"	0.37	38"	24"	3'-6"
24"	4'-0"	3'-6"	12"	0.43	42"	27"	3'-7"
27"	4'-6"	3'-8"	12"	0.49	45"	29"	3'-8"
30"	5'-0"	3'-9"	12"	0.56	49"	32"	3'-10"
33"	5'-6"	3'-10"	12"	0.62	53"	34"	4'-0"
36"	6'-0"	4'-0"	12"	0.69	60"	38"	4'-2"
39"	6'-6"	4'-2"	12"	0.75	66"	43"	4'-4"
42"	7'-0"	4'-3"	12"	0.84	76"	48"	5'-0"
48"	8'-0"	4'-6"	14"	1.09	83"	53"	5'-2"
54"	9'-3"	4'-9"	14"	1.32	91"	58"	5'-5"
60"	10'-6"	5'-6"	16"	1.93	98"	63"	5'-7"
66"	11'-9"	5'-9"	18"	2.42	106"	68"	5'-10"
72"	13'-0"	6'-0"	18"	2.77	115"	72"	6'-0"
78"	14'-3"	6'-3"	20"	3.37	121"	77"	6'-3"
84"	15'-6"	6'-6"	22"	4.05	128"	82"	6'-6"
90"	16'-9"	6'-9"	22"	4.51	136"	87"	6'-8"
96"	18'-0"	7'-0"	24"	5.31	143"	92"	6'-10"
102"	19'-3"	7'-3"	26"	6.20	151"	97"	7'-1"
108"	20'-6"	7'-6"	26"	6.78	166"	106"	7'-5"
114"	21'-9"	7'-9"	28"	7.81	180"	116"	7'-10"
120"	23'-0"	8'-0"	30"	8.93	--	--	--
126"	24'-3"	8'-3"	30"	9.97	--	--	--
132"	25'-6"	8'-6"	32"	10.84	--	--	--
144"	28'-8"	9'-0"	34"	13.00	--	--	--

CIRCULAR				ELLIPTICAL			
D (mm)	W (mm)	H (mm)	T (mm)	Span (mm)	Rise (mm)	W (mm)	H (mm)
300	600	925	300	0.15	575	365	925
375	750	875	300	0.19	770	490	1000
450	900	1000	300	0.24	865	550	1200
525	1050	1025	300	0.28	960	610	1375
600	1200	1075	300	0.33	1055	670	1425
675	1350	1125	300	0.37	1150	730	1575
750	1500	1150	300	0.43	1250	795	1650
825	1650	1175	300	0.47	1345	855	1800
900	1800	1225	300	0.53	1535	975	2075
975	1950	1275	300	0.59	1730	1095	2450
1050	2100	1300	300	0.64	1920	1220	2800
1200	2400	1375	350	0.83	2110	1340	3150
1350	2775	1450	350	1.01	2305	1465	3500
1500	3150	1675	400	1.48	2495	1585	3825
1650	3525	1750	450	1.85	2690	1705	4200
1800	3900	1825	450	2.12	2880	1830	4500
1950	4275	1900	500	2.58	3070	1950	4850
2100	4650	1975	550	3.10	3265	2075	5150
2250	5025	2050	550	3.45	3455	2195	5525
2400	5400	2125	600	4.06	3648	2315	5900
2550	5775	2200	650	4.74	3840	2440	6250
2700	6150	2275	650	5.18	4035	2565	6625
2850	6525	2350	700	5.97	4230	2690	7000
3000	6900	2450	750	6.83	--	--	--
3150	7275	2525	750	7.32	--	--	--
3300	7650	2600	825	8.29	--	--	--
3600	8400	2750	875	9.94	--	--	--



HEADWALL FOR CORRUGATED METAL PIPE & PLASTIC PIPE (English)																					
CIRCULAR					PIPE ARCH					PIPE ARCH											
D	W	H	T	CONC. cu. yds.	SPAN	RISE	W	H	T	CONC. cu. yds.	SPAN	RISE	W	H	T	CONC. cu. yds.					
12"	2'-0"	3'-0"	12"	0.21	2.67' x 3' Corrugations										8"	12'-4"	5'-8"	15"	2'-14"		
15"	2'-6"	3'-2"	12"	0.25	17"	33"	5'-0"	3'-2"	12"	0.31	*8"	58"	12'-4"	5'-8"	15"	2'-14"					
18"	3'-0"	3'-3"	12"	0.31	21"	37"	5'-3"	3'-2"	12"	0.35	55"	67"	14'-0"	5'-9"	20"	3'-14"					
21"	3'-6"	3'-4"	12"	0.38	24"	18"	4'-0"	3'-2"	12"	0.43	103"	71"	15'-0"	5'-9"	20"	3'-14"					
24"	4'-0"	3'-6"	12"	0.46	28"	20"	4'-6"	3'-3"	12"	0.48	112"	78"	15'-0"	5'-9"	20"	3'-14"					
27"	4'-6"	3'-8"	12"	0.54	32"	22"	5'-0"	3'-4"	12"	0.54	117"	82"	15'-0"	5'-9"	20"	3'-14"					
30"	5'-0"	3'-9"	12"	0.60	42"	29"	6'-0"	3'-7"	12"	0.73	128"	83"	18'-0"	5'-8"	26"	5'-0"					
33"	5'-6"	3'-10"	12"	0.68	49"	33"	7'-8"	3'-8"	12"	0.90	137"	87"	18'-0"	5'-7"	27"	5'-4"					
36"	6'-0"	4'-0"	12"	0.75	53"	38"	8'-0"	4'-0"	12"	1.00	149"	91"	18'-0"	5'-6"	28"	5'-8"					
39"	6'-6"	4'-2"	12"	0.84	64"	43"	10'-0"	4'-2"	12"	1.31	6' x 8" Corrugations (12" Corner Radius)										
42"	7'-0"	4'-3"	12"	0.92	71"	47"	11'-0"	4'-8"	12"	1.51	*6"	61"	4'-7"	12'-0"	5'-8"	14"	1.89				
48"	8'-0"	4'-6"	14"	1.09	83"	53"	12'-0"	5'-0"	12"	1.65	*6"	61"	4'-7"	12'-0"	5'-8"	14"	2.12				
54"	9'-3"	4'-9"	12"	1.33	93"	57"	12'-4"	5'-5"	12"	2.46	*6"	61"	4'-7"	12'-0"	5'-8"	14"	2.46				
60"	10'-6"	5'-6"	12"	1.78	6' x 2" Corrugations (13" Corner Radius)										*6"	61"	4'-7"	12'-0"	5'-8"	14"	2.12
66"	11'-9"	5'-9"	12"	2.06	133"	63"	13'-0"	5'-10"	12"	3.23	9.6"	7'-3"	5'-3"	12'-0"	5'-11"	17"	2.69				
72"	13'-0"	6'-0"	18"	2.94	137"	63"	14'-0"	6'-0"	12"	3.63	10.12"	9'-7"	5'-5"	13'-2"	6'-0"	18"	2.77				
78"	14'-3"	6'-3"	14"	3.10	140"	64"	14'-0"	6'-1"	13"	10.33	7'-11"	5'-5"	14'-0"	6'-0"	20"	3.15					
84"	15'-6"	6'-6"	14"	3.50	140"	64"	14'-0"	6'-1"	13"	10.33	7'-11"	5'-5"	14'-0"	6'-0"	20"	3.15					
90"	16'-9"	6'-9"	16"	4.05	140"	64"	14'-0"	6'-1"	13"	10.33	7'-11"	5'-5"	14'-0"	6'-0"	20"	3.15					
96"	18'-0"	7'-0"	16"	4.40	140"	64"	14'-0"	6'-1"	13"	10.33	7'-11"	5'-5"	14'-0"	6'-0"	20"	3.15					
102"	19'-3"	7'-3"	18"	5.28	140"	64"	14'-0"	6'-1"	13"	10.33	7'-11"	5'-5"	14'-0"	6'-0"	20"	3.15					
108"	20'-6"	7'-6"	18"	5.88	140"	64"	14'-0"	6'-1"	13"	10.33	7'-11"	5'-5"	14'-0"	6'-0"	20"	3.15					
114"	21'-9"	7'-9"	20"	6.78	150"	69"	15'-0"	6'-6"	14"	11.61	8'-0"	6'-5"	15'-0"	6'-6"	26"	4.19					
120"	23'-0"	8'-0"	20"	7.81	150"	69"	15'-0"	6'-6"	14"	11.61	8'-0"	6'-5"	15'-0"	6'-6"	26"	4.19					
126"	24'-3"	8'-3"	22"	8.93	150"	69"	15'-0"	6'-6"	14"	11.61	8'-0"	6'-5"	15'-0"	6'-6"	26"	4.19					
132"	25'-6"	8'-6"	24"	10.05	150"	69"	15'-0"	6'-6"	14"	11.61	8'-0"	6'-5"	15'-0"	6'-6"	26"	4.19					
138"	27'-0"	8'-9"	30"	11.80	17'-0"	11'-2"	29'-8"	8'-10"	15"	14.24	10'-11"	7'-11"	18'-0"	6'-10"	28"	5.87					
144"	28'-8"	9'-0"	32"	13.09	17'-2"	11'-2"	30'-8"	8'-11"	16"	14.84	11'-1"	7'-3"	18'-10"	6'-11"	30"	6.55					
150"	30'-0"	9'-3"	34"	14.38	17'-4"	11'-4"	31'-8"	8'-11"	16"	15.44	11'-3"	7'-5"	19'-0"	6'-11"	30"	6.55					
156"	32'-0"	9'-6"	36"	15.01	17'-11"	11'-8"	31'-7"	9'-1"	17"	15.83	11'-10"	7'-7"	20'-9"	7'-11"	29"	6.94					
162"	32'-8"	9'-8"	38"	16.75	18'-1"	11'-10"	32'-5"	9'-2"	17"	16.43	12'-4"	7'-9"	20'-12"	7'-3"	28"	7.12					
168"	34'-0"	10'-0"	40"	18.49	18'-6"	11'-11"	32'-4"	9'-5"	18"	17.03	12'-8"	7'-11"	21'-0"	7'-5"	28"	7.64					
174"	35'-0"	10'-3"	42"	20.28	18'-9"	12'-0"	33'-4"	9'-8"	18"	17.43	12'-8"	8'-1"	22'-7"	7'-4"	30"	7.95					
180"	37'-11"	10'-6"	43"	21.87	19'-3"	12'-4"	33'-5"	9'-5"	18"	17.78	12'-10"	8'-4"	23'-8"	7'-5"	30"	8.48					
186"	39'-0"	10'-9"	44"	23.34	19'-6"	12'-6"	34'-4"	9'-8"	19"	18.18	12'-10"	8'-4"	23'-8"	7'-5"	30"	8.48					
192"	40'-0"	11'-0"	45"	25.10	19'-8"	12'-8"	35'-3"	9'-7"	19"	19.19	13'-11"	8'-7"	23'-3"	7'-7"	31"	8.81					
198"	43'-3"	11'-3"	46"	27.12	19'-11"	12'-10"	36'-3"	9'-8"	19"	19.95	14'-1"	8'-8"	25'-1"	7'-8"	31"	9.29					
204"	46'-0"	11'-6"	47"	29.07	20'-0"	12'-11"	37'-2"	9'-8"	20"	20.71	14'-10"	8'-9"	25'-11"	7'-9"	31"	9.77					
210"	48'-0"	11'-9"	48"	31.03	20'-3"	13'-0"	37'-2"	9'-10"	20"	21.05	14'-10"	9'-11"	25'-6"	7'-10"	32"	10.25					
216"	48'-11"	12'-0"	49"	33.43	3' x 1" Corrugations										15'-4"	9'-11"	25'-6"	7'-11"	32"	10.25	
222"	39'-0"	10'-0"	50"	35.26	20'-4"	13'-1"	38'-0"	9'-3"	12"	21.05	15'-4"	9'-11"	25'-6"	7'-11"	32"	10.25					
228"	40'-0"	10'-3"	51"	37.29	36"	6'-0"	3'-3"	12"	0.70	15'-8"	9'-7"	5'-5"	8'-11"	3'-3"	11.28						
234"	42'-0"	12'-3"	52"	39.86	53"	4'-0"	4'-0"	12"	1.06	15'-10"	10'-0"	22'-5"	8'-2"	33"	12.00						
240"	43'-0"	13'-0"	53"	42.28	60"	4'-0"	4'-4"	12"	1.27	16'-5"	9'-8"	22'-5"	8'-2"	33"	12.09						
246"	44'-0"	13'-3"	54"	44.83	68"	4'-0"	4'-8"	12"	1.50	17'-10"	10'-11"	22'-5"	8'-2"	33"	12.44						
252"	45'-4"	13'-5"	55"	47.44	*73"	55"	11'-8"	5'-3"	12"	1.81	--	--	--	--	--	--					

* Channel configuration for pipe sizes between end treatment "A" and end treatment "B" is determined by 21 slopes passing through a point 6' (1500) below the top and at each side of the headwall. For end



NOTES

CONCRETE: Concrete shall be Class C. **REINFORCING STEEL:** Bars shall be #5 (#16M) and epoxy coated. **Chamfer:** all exposed corners 3/4".

CONSULTING ARCHITECTS & ENGINEERS

OFFICE OF THE STATE ARCHITECT

MECHANICAL, ELECTRICAL & STRUCTURAL

SRA, INC.

SITE/CIVIL

KZF DESIGN

LANDSCAPE ARCHITECTURE

KINZELMAN KLINE

REVISIONS

NO.	DATE	DESCRIPTION

FOR:

OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:

DETAILS - ODOT STANDARD DRAWINGS

PROJECT NO. 770-2003-074

I-70 / LICKING COUNTY REST AREA

STATE OF OHIO

DEPARTMENT OF TRANSPORTATION

GENERAL SERVICES DIVISION

PREPARED BY

OFFICE OF THE STATE ARCHITECT

PLOT DATE

DATE

C5.11

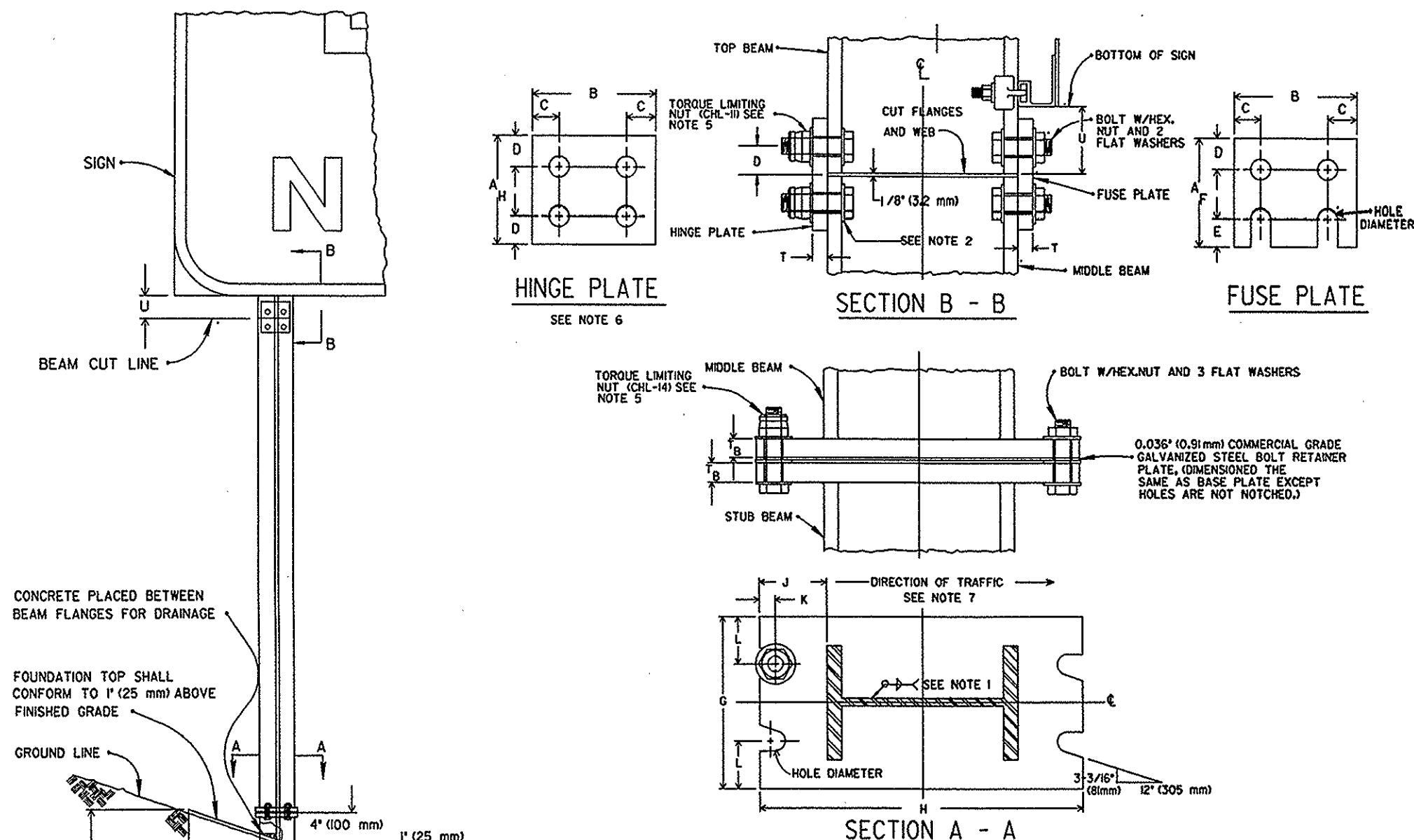
42" FULL HEIGHT HEADWALL

NOTES

- Base plate weld size shall be equal to the beam flange and web thicknesses respectively, but no less than 1/4" (6.4 mm) in either instance.
- With the S4X7.7 (ISO0x15.5) beam, use malleable iron beveled washers conforming with ASTM A118 grade 3500.
- Tighten fuse and hinge plate connections in the shop following a method approved by the Engineer to produce the minimum bolt preload specified.
- Use the following procedure in assembling the roadway sign plate:

After all bolts, washers, standard nuts and bolt retaining plates are in place, tighten all standard nuts snugly with a 1/2" (12.5 mm) wrench. Loosen each bolt in turn and retighten in a systematic manner to the specified minimum torque. Collocate wrenches at least once each working day for each bolt diameter being torqued. Burn threads of junction with nut using a center punch.

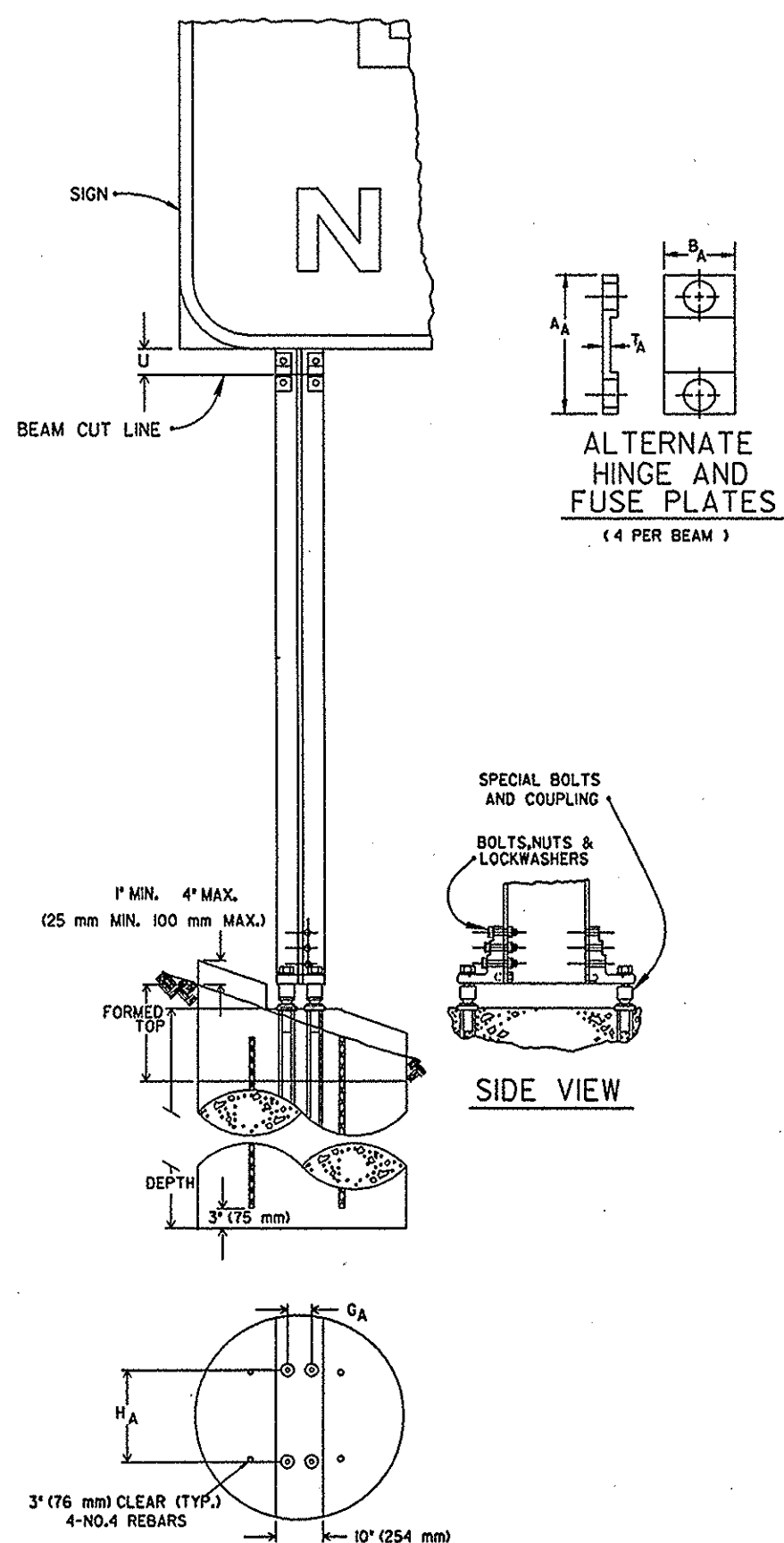
- In lieu of the standard nuts and procedures outlined in 3 and 4 above, the sign plate may be assembled using torque limiting nuts. Tighten each nut with sufficient torque applied until the upper wrenching surface has sheared away from the structural body of the nut. Stop assembly fuse and hinge plates following this procedure. Use nuts as manufactured by Hill-Shear Corp., Torrance, California; or Hill-Shear Industries - Culbert City, California; Standard Pressed Steel - Jenkintown, Pennsylvania or approved equal.
- For beams subject to impact from opposite directions such as in freeway medians, provide fuse plates on both sides.
- Notches shown for installation to the right of traffic. For installations to the left of traffic, fabricate with skewed edges of notches reversed from that shown.
- Dimensions shown for alternate designs are approximate. Specified dimensions are for alternate designs require prequalification. An approved list of suppliers can be provided by ODOT. Moment for alternate designs will be based on the plan quantities for embedded beams.



ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
BEAM						HINGE AND FUSE PLATE DIMENSIONS										FOUNDATIONS						BASE PLATE DIMENSIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
TYPE	SIZE	A	B	C	D	E	T	U	HOLE DIA.	BOLT SIZE	MIN. PRELOAD	DIA. (feet)	DEPTH (feet)	CONCRETE (cu yd/ft)	G	H	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DU	DV	DW	DX	DY	DZ	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY	EZ	FA	FB	FC	FD	FE	FF	FG	FH	FI	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	FU	FV	FW	FX	FY	FZ	GA	GB	GC	GD	GE	GF	GG	GH	GI	GJ	GK	GL	GM	GN	GO	GP	GQ	GR	GS	GT	GU	GV	GW	GX	GY	GZ	HA	HB	HC	HD	HE	HF	HG	HH	HI	HJ	HK	HL	HM	HN	HO	HP	HQ	HR	HS	HT	HU	HV	HW	HX	HY	HZ	IA	IB	IC	ID	IE	IF	IG	IH	II	IJ	IK	IL	IM	IN	IO	IP	IQ	IR	IS	IT	IU	IV	IW	IX	IY	IZ	JA	JB	JC	JD	JE	JF	JG	JH	JI	IJ	JK	KL	KM	KN	KO	KP	KQ	KR	KS	KT	KU	KV	KW	KX	KY	KZ	LA	LB	LC	LD	LE	LF	LG	LH	LI	LJ	LK	LM	LN	LO	LP	LQ	LR	LS	LT	LU	LV	LW	LX	LY	LZ	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK	ML	MM	MN	MO	MP	MQ	MR	MS	MT	MU	MV	MW	MX	MY	MZ	NA	NB	NC	ND	NE	NF	NG	NH	NI	NJ	NK	NL	NM	NO	NP	NQ	NR	NS	NT	NU	NV	NW	NX	NY	NZ	OA	OB	OC	OD	OE	OF	OG	OH	OI	OJ	OK	OL	OM	ON	OO	OP	OQ	OR	OS	OT	OU	OV	OW	OX	OY	OZ	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK	PL	PM	PN	PO	PP	PQ	PR	PS	PT	PU	PV	PW	PX	PY	PZ	QA	QB	QC	QD	QE	QF	QG	QH	QI	QJ	QK	QL	QM	QN	QO	QP	QQ	QR	QS	QT	QU	QV	QW	QX	QY	QZ	RA	RB	RC	RD	RE	RF	RG	RH	RI	RJ	RK	RL	RM	RN	RO	RP	RQ	RR	RS	RT	RU	RV	RW	RX	RY	RZ	SA	SB	SC	SD	SE	SF	SG	SH	SI	SJ	SK	SL	SM	SN	SO	SP	SQ	SR	SS	ST	SU	SV	SW	SX	SY	SZ	TA	TB	TC	TD	TE	TF	TG	TH	TI	TJ	TK	TL	TM	TN	TO	TP	TQ	TR	TS	TT	TU	TV	TW	TX	TY	TZ	UA	UB	UC	UD	UE	UF	UG	UH	UI	UJ	UK	UL	UM	UN	UO	UP	UQ	UR	US	UT	UU	UV	UW	UX	UY	UZ	VA	VB	VC	VD	VE	VF	VG	VH	VI	VJ	VK	VL	VM	VN	VO	VP	VQ	VR	VS	VT	VU	VV	VW	VX	VY	VZ	WA	WB	WC	WD	WE	WF	WG	WH	WI	WJ	WK	WL	WM	WN	WO	WP	WQ	WR	WS	WT	WU	WV	WW	WX	WY	WZ	XA	XB	XC	XD	XE	XF	YG	YH	YI	YJ	YK	YL	YM	YN	YO	YP	YQ	YR	YS	YT	YU	YV	YW	YX	YY	YZ	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH	ZI	ZJ	ZK	ZL	ZM	ZN	ZO	ZP	ZQ	ZR	ZS	ZT	ZU	ZV	ZW	ZX	ZY	ZZ

ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
BEAM										HINGE AND FUSE PLATE DIMENSIONS										FOUNDATIONS										BASE PLATE DIMENSIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
TYPE	SIZE	A	B	C	D	E	T	U	HOLE DIA.	BOLT DIA.	MIN. PRELOAD (kN)	DIA. (mm)	DEPTH (mm)	CONCRETE (m³/EA)	G	H	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DU	DV	DW	DX	DY	DZ	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY	EZ	FA	FB	FC	FD	FE	FF	FG	FH	FI	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	FU	FV	FW	FX	FY	FZ	GA	GB	GC	GD	GE	GF	GG	GH	GI	GJ	GK	GL	GM	GN	GO	GP	GQ	GR	GS	GT	GU	GV	GW	GX	GY	GZ	HA	HB	HC	HD	HE	HF	HG	HH	HI	HJ	HK	HL	HM	HN	HO	HP	HQ	HR	HS	HT	HU	HV	HW	HX	HY	HZ	IA	IB	IC	ID	IE	IF	IG	IH	II	IJ	IK	IL	IM	IN	IO	IP	IQ	IR	IS	IT	IU	IV	IW	IX	IY	IZ	JA	JB	JC	JD	JE	JF	JG	JH	JI	IJ	JK	KL	KM	KN	KO	KP	KQ	KR	KS	KT	KU	KV	KW	KX	KY	KZ	LA	LB	LC	LD	LE	LF	LG	LH	LI	LJ	LK	LM	LN	LO	LP	LQ	LR	LS	LT	LU	LV	LW	LX	LY	LZ	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK	ML	MM	MN	MO	MP	MQ	MR	MS	MT	MU	MV	MW	MX	MY	MZ	NA	NB	NC	ND	NE	NF	NG	NH	NI	NJ	NK	NL	NM	NO	NP	NQ	NR	NS	NT	NU	NV	NW	NX	NY	NZ	OA	OB	OC	OD	OE	OF	OG	OH	OI	OJ	OK	OL	OM	ON	OO	OP	OQ	OR	OS	OT	OU	OV	OW	OX	OY	OZ	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK	PL	PM	PN	PO	PP	PQ	PR	PS	PT	PU	PV	PW	PX	PY	PZ	QA	QB	QC	QD	QE	QF	QG	QH	QI	QJ	QK	QL	QM	QN	QO	QP	QQ	QR	QS	QT	QU	QV	QW	QX	QY	QZ	RA	RB	RC	RD	RE	RF	RG	RH	RI	RJ	RK	RL	RM	RN	RO	RP	RQ	RR	RS	RT	RU	RV	RW	RX	RY	RZ	SA	SB	SC	SD	SE	SF	SG	SH	SI	SJ	SK	SL	SM	SN	SO	SP	SQ	SR	SS	ST	SU	SV	SW	SX	SY	SZ	TA	TB	TC	TD	TE	TF	TG	TH	TI	TJ	TK	TL	TM	TN	TO	TP	TQ	TR	TS	TT	TU	TV	TW	TX	TY	TZ	UA	UB	UC	UD	UE	UF	UG	UH	UI	UJ	UK	UL	UM	UN	UO	UP	UQ	UR	US	UT	UU	UV	UW	UX	UY	UZ	VA	VB	VC	VD	VE	VF	VG	VH	VI	VJ	VK	VL	VM	VN	VO	VP	VQ	VR	VS	VT	VU	VV	VW	VX	VY	VZ	WA	WB	WC	WD	WE	WF	WG	WH	WI	WJ	WK	WL	WM	WN	WO	WP	WQ	WR	WS	WT	WU	WV	WW	WX	WY	WZ	XA	XB	XC	XD	XE	XF	YG	YH	YI	YJ	YK	YL	YM	YN	YO	YP	YQ	YR	YS	YT	YU	YV	YW	YX	YY	YZ	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH	ZI	ZJ	ZK	ZL	ZM	ZN	ZO	ZP	ZQ	ZR	ZS	ZT	ZU	ZV	ZW	ZX	ZY	ZZ
S200x15	102 x 67	102	91	14	25	13	4.8	6.4	14	13	5330	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14	13	22.6	1.8	1.8	0.08	103	203	19	13	25	14																																																																										

SLIP BASE DESIGN



ALTERNATE DESIGN

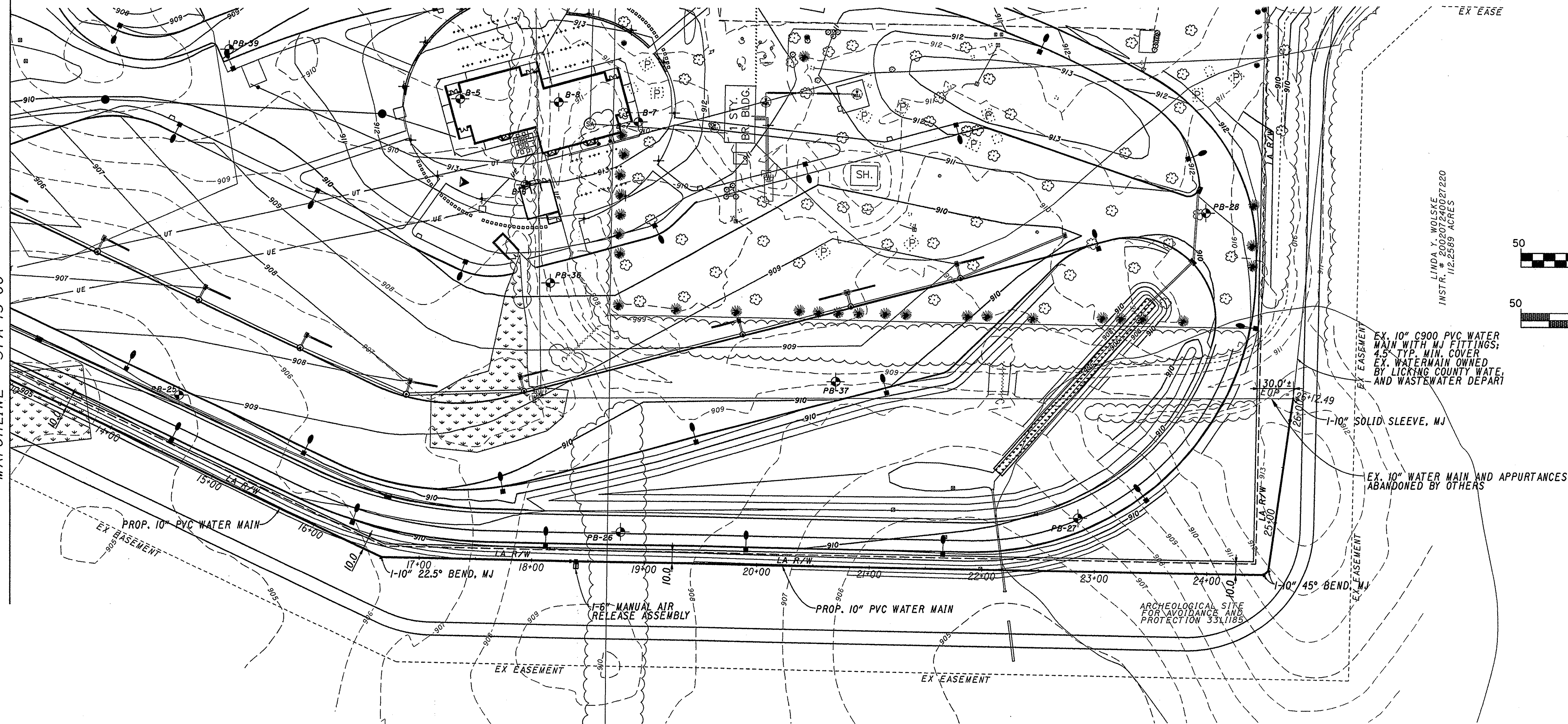
ALTERNATE DESIGN (SEE NOTE 8)

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED

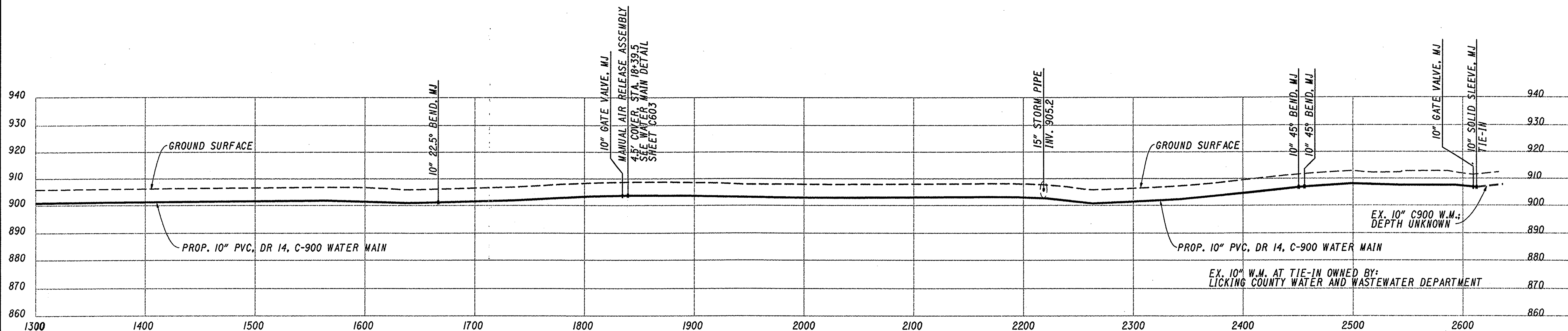
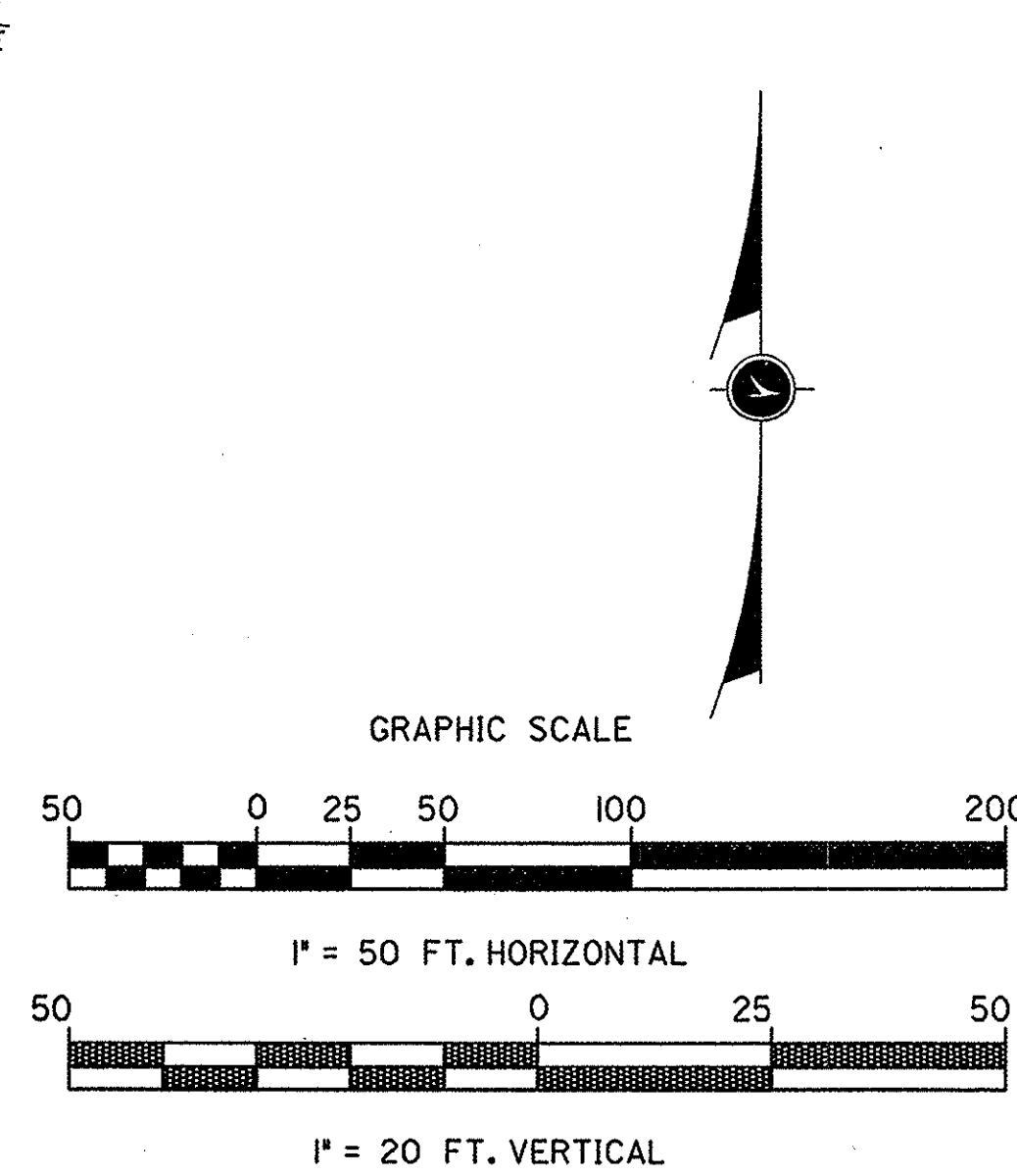
BEAM				HINGE AND FUSE PLATE				FOUNDATIONS				BASE PLATE DIMENSIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
TYPE	SIZE	A _B	BOLT SIZE	T	O ₁	DIA. (FEET)	DEPTH (FEET)	CONCRETE (YD ³ /FT)	G	H	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DU	DV	DW	DX	DY	DZ	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY	EZ	FA	FB	FC	FD	FE	FF	FG	FH	FI	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	FU	FV	FW	FX	FY	FZ	GA	GB	GC	GD	GE	GF	GG	GH	GI	GJ	GK	GL	GM	GN	GO	GP	GQ	GR	GS	GT	GU	GV	GW	GX	GY	GZ	HA	HB	HC	HD	HE	HF	HG	HH	HI	HJ	HK	HL	HM	HN	HO	HP	HQ	HR	HS	HT	HU	HV	HW	HX	HY	HZ	IA	IB	IC	ID	IE	IF	IG	IH	II	IJ	IK	IL	IM	IN	IO	IP	IQ	IR	IS	IT	IU	IV	IW	IX	IY	IZ	JA	JB	JC	JD	JE	JF	JG	JH	JI	IJ	JK	KL	KM	KN	KO	KP	KQ	KR	KS	KT	KU	KV	KW	KX	KY	KZ	LA	LB	LC	LD	LE	LF	LG	LH	LI	LJ	LK	LM	LN	LO	LP	LQ	LR	LS	LT	LU	LV	LW	LX	LY	LZ	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK	ML	MM	MN	MO	MP	MQ	MR	MS	MT	MU	MV	MW	MX	MY	MZ	NA	NB	NC	ND	NE	NF	NG	NH	NI	NJ	NK	NL	NM	NO	NP	NQ	NR	NS	NT	NU	NV	NW	NX	NY	NZ	OA	OB	OC	OD	OE	OF	OG	OH	OI	OJ	OK	OL	OM	ON	OO	OP	OQ	OR	OS	OT	OU	OV	OW	OX	OY	OZ	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK	PL	PM	PN	PO	PP	PQ	PR	PS	PT	PU	PV	PW	PX	PY	PZ	QA	QB	QC	QD	QE	QF	QG	QH	QI	QJ	QK	QL	QM	QN	QO	QP	QQ	QR	QS	QT	QU	QV	QW	QX	QY	QZ	RA	RB	RC	RD	RE	RF	RG	RH	RI	RJ	RK	RL	RM	RN	RO	RP	RQ	RR	RS	RT	RU	RV	RW	RX	RY	RZ	SA	SB	SC	SD	SE	SF	SG	SH	SI	SJ	SK	SL	SM	SN	SO	SP	SQ	SR	SS	ST	SU	SV	SW	SX	SY	SZ	TA	TB	TC	TD	TE	TF	TG	TH	TI	TJ	TK	TL	TM	TN	TO	TP	TQ	TR	TS	TT	TU	TV	TW	TX	TY	TZ	UA	UB	UC	UD	UE	UF	UG	UH	UI	UJ	UK	UL	UM	UN	UO	UP	UQ	UR	US	UT	UU	UV	UW	UX	UY	UZ	VA	VB	VC	VD	VE	VF	VG	VH	VI	VJ	VK	VL	VM	VN	VO	VP	VQ	VR	VS	VT	VU	VV	VW	VX	VY	VZ	WA	WB	WC	WD	WE	WF	WG	WH	WI	WJ	WK	WL	WM	WN	WO	WP	WQ	WR	WS	WT	WU	WV	WW	WX	WY	WZ	XA	XB	XC	XD	XE	XF	XG	XH	XI	XJ	XK	XL	XM	XN	XO	XP	XQ	XR	XS	XT	XU	XV	XW	XX	XY	XZ	YA	YB	YC	YD	YE	YF	YG	YH	YI	YJ	YK	YL	YM	YN	YO	YP	YQ	YR	YS	YT	YU	YV	YW	YX	YY	YZ	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH	ZI	ZJ	ZK	ZL	ZM	ZN	ZO	ZP	ZQ	ZR	ZS	ZT	ZU	ZV	ZW	ZX	ZY	ZZ
S4	X 7	4	3-5/8	3-3/4	1	1/2	0.071	1.5	4	0.27	4-1/4	A	H	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2	1	1/2																																																																																																																																																																																																																																																																

MATCHLINE - STA 13+00

NOTE:
SEE WATER MAIN DETAIL SHEET



LINDA Y. WOLSKEL
INSTR. # 200207240027220
112,2589 ACRES



CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL & STRUCTURAL
SRA, INC.
SITING:
KZF DESIGN
LANDSCAPE ARCHITECTURE:
KINZELMAN KLINE

REVISIONS		
NO.	DATE	DESCRIPTION

FOR:
OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
WATER MAIN PLAN AND PROFILE

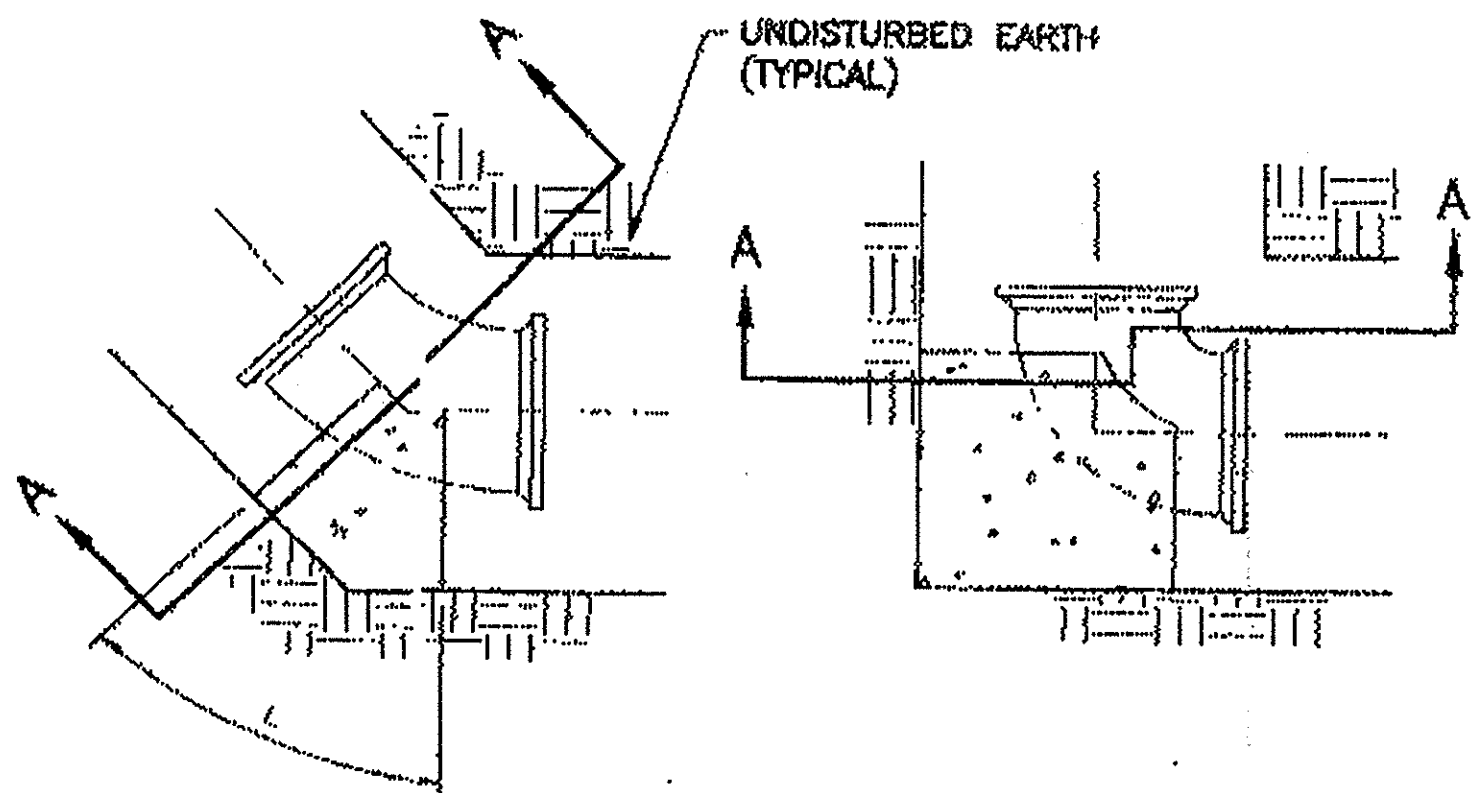
PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY:
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

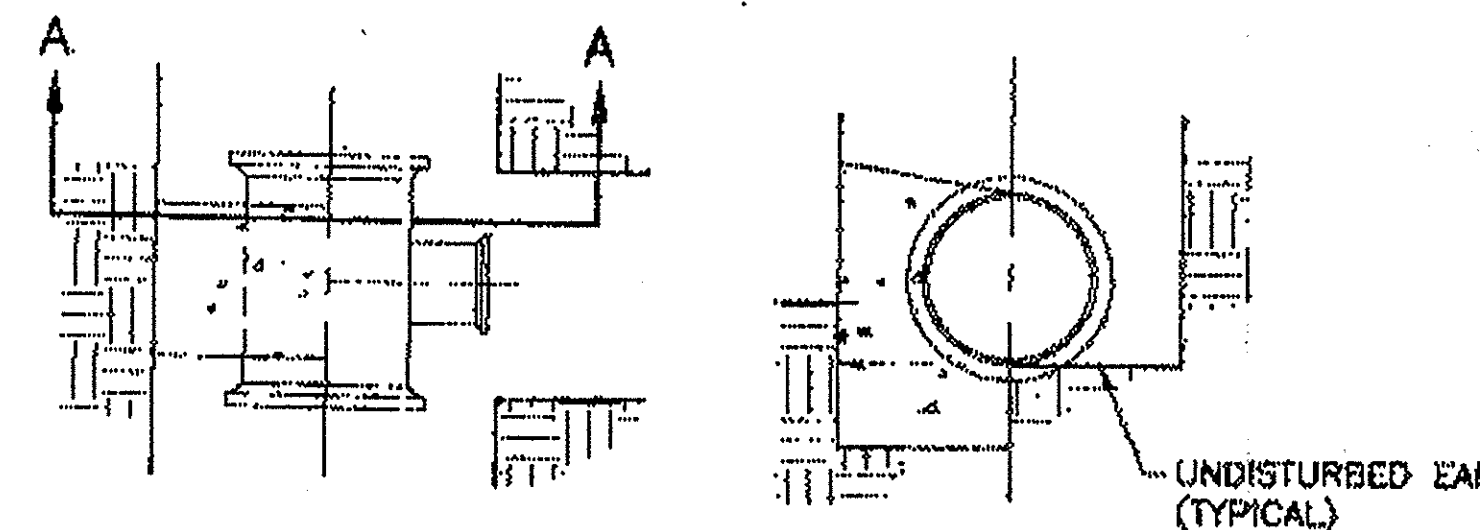
POST DATE: 20 JULY, 2004
DATE: AUGUST, 2004
C6.02

BRANCH		6"	8"	10"	12"	14"	16"	18"	20"
RUN	6"	1'	0"	1'	0"	1'	0"	1'	0"
6"	16'	24'	--	--	--	--	--	--	--
8"	16'	24'	16'	24'	--	--	--	--	--
10"	16'	24'	16'	24'	35'	--	--	--	--
12"	16'	24'	16'	24'	35'	28'	30'	48'	--
14"	16'	24'	16'	24'	35'	28'	36'	40'	36'
16"	16'	24'	16'	24'	35'	28'	36'	40'	42'
18"	16'	24'	16'	24'	35'	28'	36'	40'	48'
20"	16'	24'	16'	24'	35'	28'	36'	40'	54'

DEGREE OF BEND		11-1/4"	22-1/2"	45"	90"
SIZE OF PIPE	1"	1'	0"	1'	0"
6"	12'	8'	12'	8'	24'
8"	12'	8'	12'	8'	24'
10"	12'	8'	12'	8'	24'
12"	12'	8'	12'	8'	24'
14"	12'	8'	12'	8'	24'
16"	12'	8'	12'	8'	24'
18"	12'	8'	12'	8'	24'
20"	12'	8'	12'	8'	24'
24"	12'	8'	12'	8'	24'



BENDS LESS THAN 90° 90° BENDS



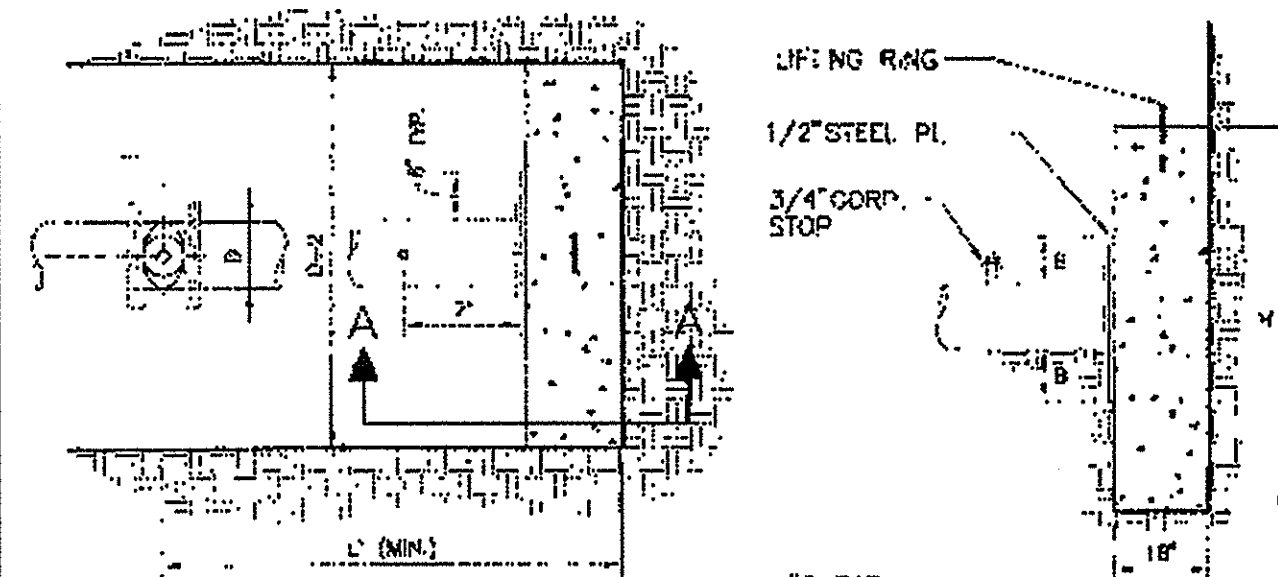
TEES SECTION A-A

NOTE: CONCRETE SHALL BE O.D.O.T. C & MS, CLASS "C"

BLOCKING DETAILS NO SCALE

STANDARD DETAIL FROM LICKING COUNTY WATER AND WASTEWATER DEPARTMENT

NOTE: IF PROJECT PIPE SIZES ARE NOT DESCRIBED BY THESE TABLES, THEN REFER TO NEXT LARGER PIPE SIZE THAT IS DESCRIBED BY THESE TABLES



PLAN VIEW NO SCALE

SECTION A-A NO SCALE

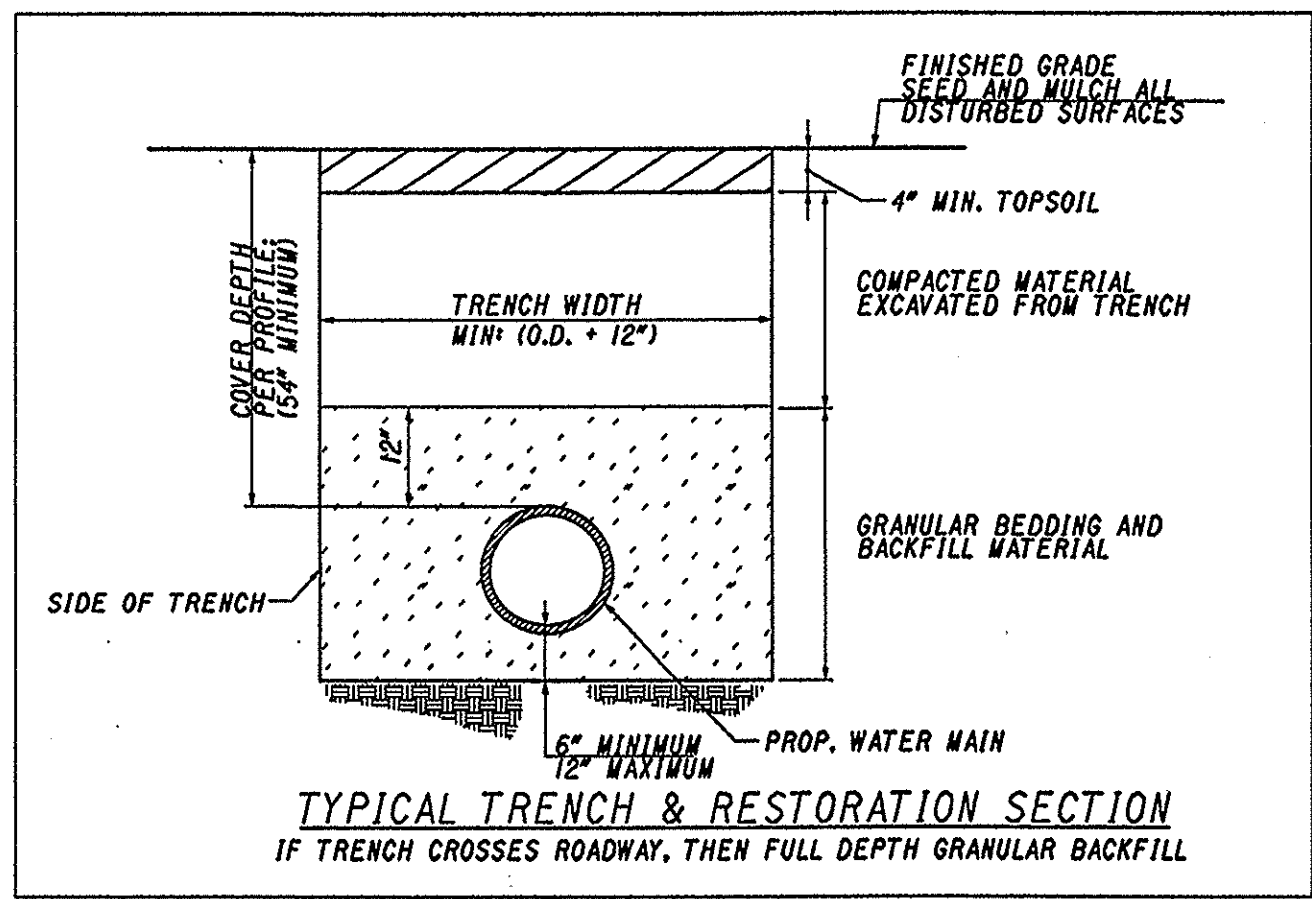
1. BACKER DESIGNED FOR 3000 PSF SOIL BEARING.
2. END OF PIPE CAPPED OR PLUGGED
3. GREASE STEEL PLATE WHERE IN CONTACT WITH CONCRETE BACKER.
4. PLACE CONCRETE AGAINST UNDISTURBED SOIL.
5. THOROUGHLY COMPACT BACKFILL BETWEEN VALVE AND END OF PIPE.

LIFT RING DETAIL NO SCALE

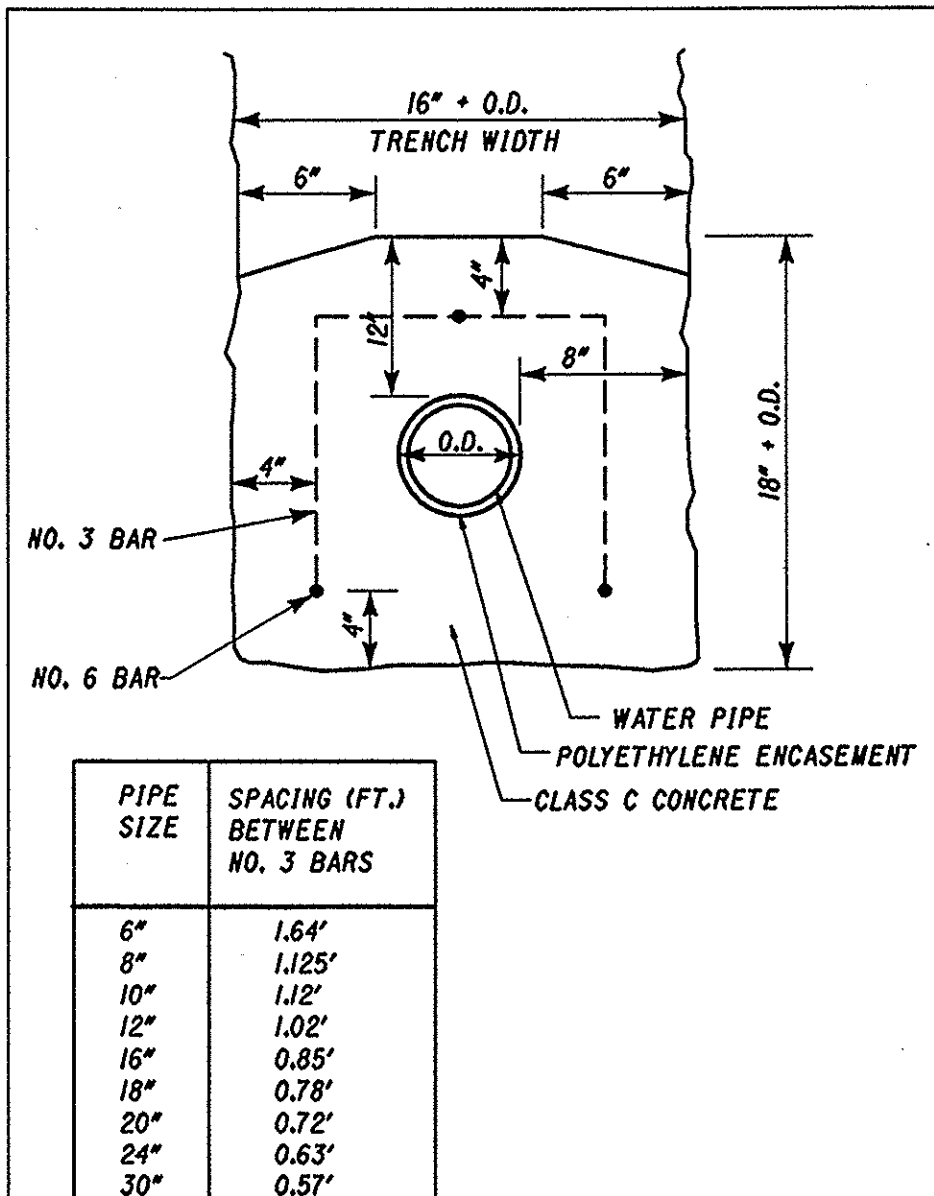
PIPE DIAMETER	H	D	L	VOL. (CUYD)
6"	8"	1'	10'	2.57

THRUST BLOCK DETAIL (WATER) END OF PIPE

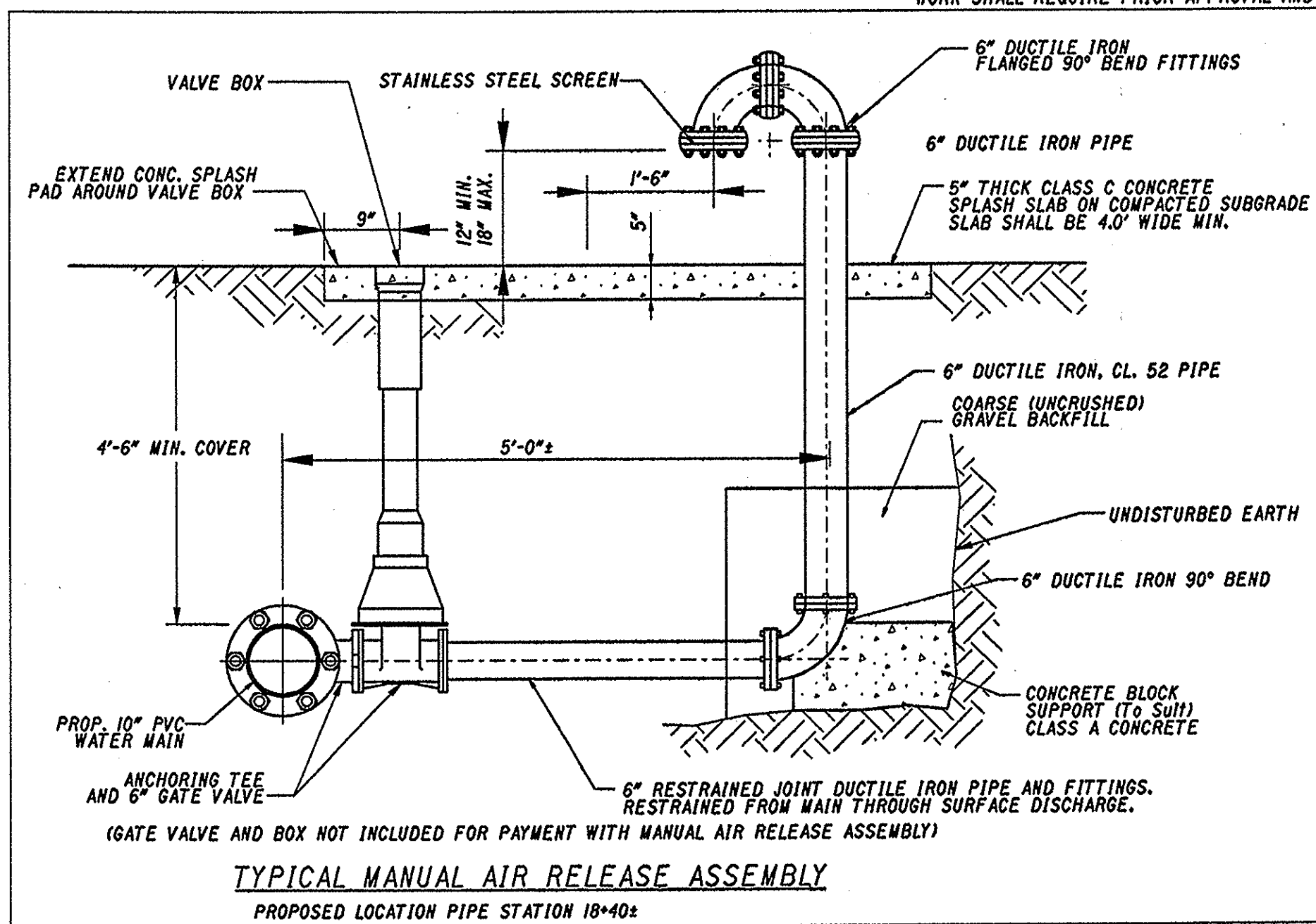
STANDARD DETAIL FROM LICKING COUNTY WATER AND WASTEWATER DEPARTMENT



TYPICAL TRENCH & RESTORATION SECTION IF TRENCH CROSSES ROADWAY, THEN FULL DEPTH GRANULAR BACKFILL



CONCRETE ENCASEMENT AT CREEK CROSSING



TYPICAL MANUAL AIR RELEASE ASSEMBLY PROPOSED LOCATION PIPE STATION 18+40.2

Project Bid Schedule

ITEM #	ODOT REF. #	PAY ITEM DESCRIPTION	QTY	UNIT
1	638E98600	WATER WORKS MISC., 6" RESTD JOINT D.I. W.M., CL.52, MECH-RESTD. PIPE JTS. AND MECH. RESTD. FTGS	35	LIN FT
2	638E02000	10" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, BOLTLESS-RESTRAINED JOINTS AND FITTINGS	40	LIN FT
3	638E98600	WATER WORKS MISC., 10" WATER MAIN, POLYVINYL CHLORIDE PIPE AWWA C900-97, DR-14 AND DUCTILE IRON C110 FULL BODY MECHANICAL JOINT FITTINGS INCLUDING CONCRETE THRUST BLOCKS	2,573	LIN FT
4	638E98600	WATER WORKS MISC., POLYETHYLENE ENCASEMENT FOR 10" PIPE	40	LIN FT
5	638E07800	6" GATE VALVE & BOX	1	EACH
6	638E08000	10" GATE VALVE & BOX	4	EACH
7	638E98000	WATER WORKS MISC., CUT AND PLUG EX. 10" WATER MAIN	2	EACH
8	638E98000	WATER WORKS MISC., MANUAL AIR RELEASE ASSEMBLY	1	EACH
9	638E98000	WATER WORKS MISC., CONNECT TO EXISTING 10" WATER MAIN	2	EACH
10	638E98600	WATER WORKS MISC., CONCRETE ENCASEMENT	40	LIN FT
11	638E98100	WATER WORKS MISC., CONSTRUCTION LAYOUT	1	LUMP SUM

GENERAL NOTES:

1. ALL MATERIALS AND CONSTRUCTION SHALL MEET THE CURRENT EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION "CONSTRUCTION AND MATERIAL SPECIFICATIONS" AND THE CURRENT SPECIFICATIONS AND STANDARD DRAWINGS OF LICKING COUNTY.
2. LICKING COUNTY SHALL BE THE AUTHORITY FOR INTERPRETING AND ENFORCING ALL REQUIREMENTS OF THE SPECIFICATIONS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTION AND PROGRAMS TO CONFORM TO THE SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION AS ISSUED BY THE DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
4. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY ALL UTILITIES PRIOR TO CONSTRUCTION TO ASCERTAIN THE FIELD LOCATION OF ALL UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING DAMAGE TO EXISTING UTILITIES BY VIRTUE OF CONTRACTOR'S WORK.
5. THE CONTRACTOR SHALL MAKE AN ON-SITE INSPECTION OF THE AREAS OF CONSTRUCTION TO BECOME FAMILIAR WITH THE SCOPE OF CONSTRUCTION.
6. THE CONTRACTOR SHALL INVESTIGATE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IF ANY DISCREPANCY EXISTS.
7. THE CONTRACTOR SHALL OBTAIN ANY AND ALL PERMITS NECESSARY FOR CONTRACTOR'S CONSTRUCTION.
8. ALL STAKING SHALL BE PERFORMED UNDER THE DIRECTION OF AN OHIO REGISTERED SURVEYOR. THE COST OF STAKING SHALL BE INCLUDED IN THE LUMP SUM BID FOR SUCH ITEM.
9. THE CONTRACTOR SHALL NOTIFY LICKING COUNTY WATER DEPARTMENT 48 HOURS IN ADVANCE OF BEGINNING ANY WORK.
10. ALL UTILITIES MUST BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL WHEN THEY ARE UNDER OR WITHIN 5' OF THE EXISTING PAVEMENT.
11. GRANULAR BACKFILL SHALL BE TAMPED WITH A VIBRATORY COMPACTOR IN 12" LAYERS.
12. THE CONTRACTOR SHALL CLEAN ALL MUD, DIRT, DEBRIS, ETC FROM PUBLIC RIGHT OF WAY LEFT AS A RESULT OF WORK ON THIS PROJECT.
13. THE CONTRACTOR SHALL BRACE POWER AND LIGHT POLES ALONG THE CONSTRUCTION ROUTE AS NEEDED.
14. THE CONTRACTOR SHALL NOTIFY ALL PROPERTY OWNERS 48 HOURS PRIOR TO DISRUPTION OF THEIR WATER SERVICE.
15. LICKING COUNTY SHALL BE CONTACTED FOR INSPECTION DURING CONSTRUCTION.
16. NORMAL WORKING HOURS ARE 7:30 A.M. TO 4:00 P.M. ANY OVERTIME OR WEEKEND WORK SHALL REQUIRE PRIOR APPROVAL AND NOTICE BY THE COUNTY.

WATER LINE NOTES:

1. WATER LINES SHALL MEET THE CURRENT LICKING COUNTY STANDARD DRAWINGS.
2. THE WATER LINE SHALL BE INSTALLED SO THAT A MINIMUM OF 4.5 FEET OF COVER IS MAINTAINED.
3. ALL BENDS, JOINTS, DEFLECTIONS, AND FITTINGS SHALL BE APPROPRIATELY BLOCKED WITH CONCRETE.
4. ALL 10" WATER MAINS SHALL BE CONSTRUCTED OF POLYVINYL CHLORIDE PIPE, C-900, OR WITH PROPER BEDDING OR EQUAL DUCTILE IRON CLASS 52 IN AREAS AS SHOWN ON THESE PLANS.
5. ALL WATER LINE MATERIALS SHALL MEET AWWA SPECIFICATIONS AND A STATEMENT OF VERIFICATION SHALL BE FURNISHED TO THE COUNTY.
6. VALVES SHALL BE AWWA C-509 RESILIENT SEAT GATE VALVES.
7. DEFLECTION OF PIPE JOINTS SHALL LIMITED TO THAT RECOMMENDED BY THE PIPE MANUFACTURER.
8. THE INSTALLATION, JOINING AND BACK FILLING FOR ALL WATER MAINS, VALVES, AND HYDRANTS SHALL CONFORM TO LICKING COUNTY DESIGN STANDARDS OR AS DIRECTED BY THE WATER AND WASTEWATER DEPARTMENT.
9. SEPERATION OF WATER MAINS AND SANITARY SEWERS SHALL CONFORM TO ALL REQUIREMENTS OF "10 STATES STANDARDS". HORIZONTAL SEPERATION SHALL BE 10 FEET AND VERTICAL SEPERATION SHALL BE 18 INCHES.
10. LINE CROSSING: AT ALL POINTS OF CROSSING OF WATER MAINS AND SEWERS, THE BACKFILL SHALL BE GRANULAR MATERIAL BETWEEN THE DEEPER AND THE SHALLOWER PIPE. IN ADDITION TO THE GRANULAR BACKFILL, HARDWOOD TIMBER SUPPORT BEAMS SHALL BE PLACED UNDER THE UPPER PIPE TO SPAN THE TRENCH. IN LIEU OF THE TIMBER SUPPORT BEAMS, CONTROLLED DENSITY FILL MAY BE USED. THE COST OF PIPE SUPPORT IS TO BE INCLUDED IN THE UNIT PRICE BID FOR THE WATER LINE.
11. ALL FITTINGS SHALL BE DUCTILE IRON, MECHANICAL JOINT AND SHALL COMPLY WITH AWWA SPECIFICATIONS.
12. ALL WATER LINES SHALL BE PRESSURE TESTED PRIOR TO BEING PLACED IN SERVICE. THE COST OF TESTING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WATER LINE.
13. PRESSURE TESTING OF WATER LINES SHALL BE IN ACCORDANCE WITH AWWA C-600.
14. BEFORE BEING PLACED INTO SERVICE, THE CONTRACTOR SHALL CHLORINATE ALL NEW WATER LINES IN ACCORDANCE WITH THE SPECIFICATIONS AND PROCEDURES DESCRIBED IN AWWA C-651, "STANDARD PROCEDURE FOR DISINFECTING WATER MAINS". ALL BACTERIOLOGICAL TESTING SHALL BE PERFORMED IN THE PRESENCE OF LICKING COUNTY. SHOULD THE INITIAL TREATMENT RESULT IN THE UNSATISFACTORY BACTERIAL TEST, THE ORIGINAL CHLORINATION PROCEDURE SHALL BE REPEATED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE UNTIL SATISFACTORY RESULTS ARE OBTAINED.
15. THE CONTRACTOR / EXCAVATOR MUST MAINTAIN A LOG OF ALL CONNECTION LOCATIONS. THE CONNECTION LOCATIONS SHALL BE INCLUDED ON THE CONTRACTOR-PREPARED AS-BUILT DRAWINGS.
16. INDIVIDUAL BOOSTER PUMPS SHALL NOT BE ALLOWED FOR ANY SERVICE.
17. THE NORMAL WORKING PRESSURE IN THE WATER LINES SHALL NOT BE LESS THAN 35 P.S.I.
18. INTENTIONALLY LEFT BLANK
19. METALLIC LOCATION TAPE SHALL BE INSTALLED AT THE TIME OF BACKFILLING. TAPE SHALL BE METALLIC, CAPABLE OF BEING LOCATED BY A DETECTING UNIT, AND TAPE SHALL READ, "CAUTION BURIED WATER LINE". COST OF TAPE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WATER LINE.
20. THE CONTRACTOR SHALL EXPOSE EXISTING SANITARY SEWER FORCEMAINS TO VERIFY THAT IT WAS CONSTRUCTED WITH WATERLINE TYPE MATERIAL. PRESSURE TIGHT JOINTS, SHOULD THIS NOT BE THE CASE THE PROPOSED WATER LINE SHALL BE EITHER MOVED A MINIMUM OF 10' AWAY FROM THE FORCEMAIN OR THE FORCEMAIN ENCASED IN CONCRETE.
21. THE CONTRACTOR SHALL RESTORE ALL PVIOUS SURFACES DISTURBED BY CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH ODOT CONSTRUCTION AND MATERIAL SPECIFICATION ITEM 659. THE COST FOR RESTORATION SHALL BE INCLUDED WITH THE UNIT PRICE BID FOR THE WATER MAIN.
22. THE CONTRACTOR SHALL ADDITIONALLY REFER TO THE CONTRACT DOCUMENT SPECIFICATION SECTION 0266 - WATER DISTRIBUTION SYSTEM.

CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT
OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL & STRUCTURAL
SRA, INC.
SITE CIVIL
LANDSCAPE ARCHITECTURE
KINZELMAN KLINE

REVISIONS			21 July 2004
NO.	DATE	DESCRIPTION	

FOR:
OHIO DEPT. OF TRANSPORTATION

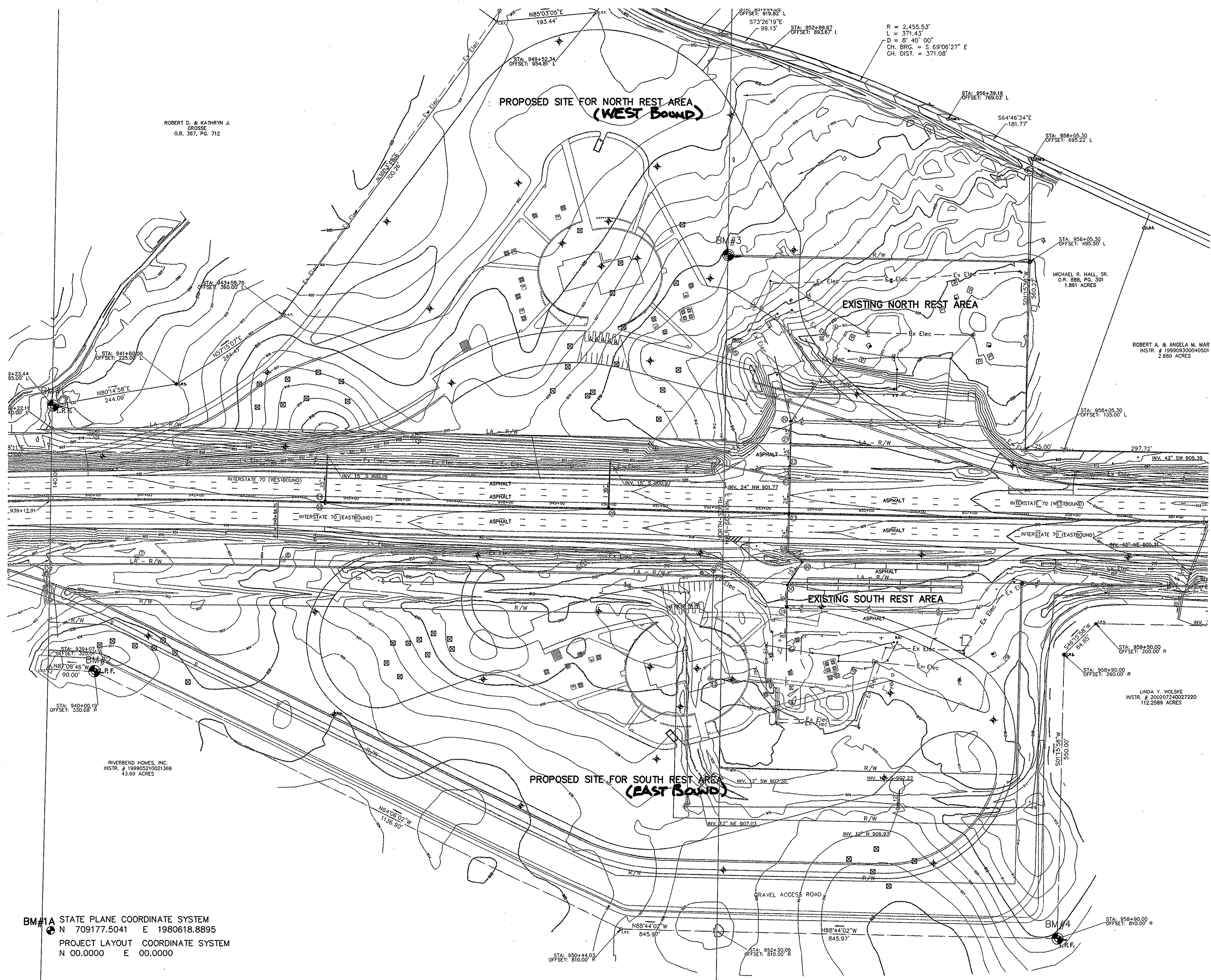
DRAWING DESCRIPTION:
WATER MAIN DETAILS

PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

DATE
20 JULY, 2004
AUGUST, 2004
C6.03

BID/CONSTRUCTION SET



BM#1A STATE PLANE COORDINATE SYSTEM
N 709177.5041 E 1980618.8895
PROJECT LAYOUT COORDINATE SYSTEM
N 00.0000 E 00.0000

- SYMBOL LEGEND**
- ARCHAEOLOGICAL DIG PIT LOCATIONS, TYPICAL.
 - SOIL BORING LOCATIONS, TYPICAL.
 - BM# - BEARING ORIGIN/COORDINATE MARKER

- GENERAL NOTES**
1. INFORMATION SHOWN REPRESENTS EXISTING CONDITIONS PRIOR TO DEMOLITION OF THE EXISTING REST AREAS.
 2. CONTRACTOR SHALL MAKE HIMSELF FAMILIAR WITH THE SITES AND CONDITIONS AS THEY EXIST AT THE TIME OF BID AND START OF CONSTRUCTION. COORDINATE ACCESS PRIOR TO SITE INSPECTION WITH ODOT CENTRAL OFFICE, DISTRICT 5 AND ENGINEER'S PROJECT REPRESENTATIVES.
 3. EACH CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES AND OTHER CONDITIONS TO REMAIN UNDISTURBED.
 4. ALL LAYOUT TO BE BY A REGISTERED SURVEYOR OR ENGINEER. THE OWNER'S REPRESENTATIVE WILL REVIEW THE LAYOUT FOR GENERAL CONFORMANCE PRIOR TO CONSTRUCTION.
 5. CONTRACTOR SHALL ESTABLISH BASELINE AND MAINTAIN BASELINES. CONTRACTOR SHALL PROVIDE PERMANENT REFERENCES TO ALLOW REESTABLISHMENT OF BENCHMARKS AND BASELINES DURING AND AFTER CONSTRUCTION.
 6. ORIGINAL SURVEY, DATED 10/15/03, AND SUBSEQUENT REVISION, DATED 2/26/04 PREPARED BY WD PARTNERS, 1201 DUBLIN ROAD, COLUMBUS, OHIO 43215, PHONE NUMBER (614) 221-0840.

BENCHMARKS

BASIS OF ELEVATION - J 19 (PID JY00002): BENCHMARK DISK FOUND IN SMALL CONCRETE DRAIN WALL SOUTH SIDE OF MOON RIVER LANE, 2 MILES SOUTH OF JACKSONTOWN, EAST OF BUCKEYE LAKE.

ELEVATION902.29 (USGS NAVD88)

PROJECT SITE

POINT OF BEGINNING OR BM# 1A HAS BEEN ESTABLISHED AS THE ORIGIN POINT (N 00.00, E 00.00) FOR THE 'L' SERIES LAYOUT DRAWINGS OF THIS PROJECT. THE COORDINATE SYSTEM IS APPLICABLE TO ONLY THE ABOVE REFERENCED DRAWINGS.

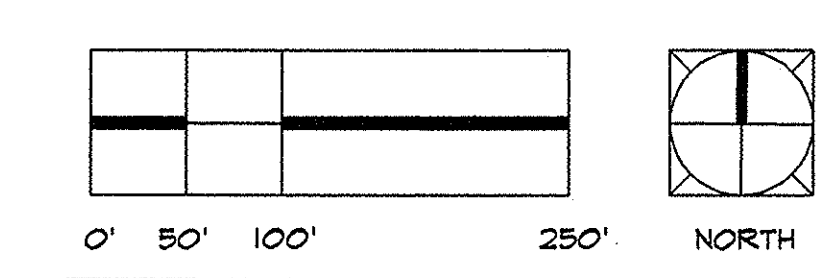
BM#1 IRON PIN FOUND, STA. 939+23.44, 185.00' LT
STATE PLANE COORDINATES LAYOUT COORDINATES
N = 709176.96 N = 1014.1240
E = 1980620.69 E = 83.0533
ELEVATION.....900.02

BM#2 IRON PIN FOUND, STA. 940+00.19, 330.68' RT
STATE PLANE COORDINATES LAYOUT COORDINATES
N = 708663.34 N = 500.5012
E = 1980701.93 E = 83.0533
ELEVATION.....906.42

BM#3 IRON PIN FOUND, STA. 952+19.14, 495.50' LT
STATE PLANE COORDINATES LAYOUT COORDINATES
N = 709467.18 N = 1304.3423
E = 1981929.02 E = 1310.1465
ELEVATION.....911.17

BM#4 IRON PIN FOUND, STA. 958+90.00, 810.00' RT
STATE PLANE COORDINATES LAYOUT COORDINATES
N = 708147.59 N = -15.2471
E = 1982570.70 E = 1951.8240
ELEVATION.....909.63

BM#5 IRON PIN FOUND, STA. 969+01.05, 119.72' RT
STATE PLANE COORDINATES LAYOUT COORDINATES
N = 708815.32 N = 652.4812
E = 1983596.15 E = 2977.2681
ELEVATION.....919.93



CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT: OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL & STRUCTURAL: GRA, INC.
SITE/CIVIL: KZF DESIGN
LANDSCAPE ARCHITECTURE: KINZELMAN KLINE

REVISIONS

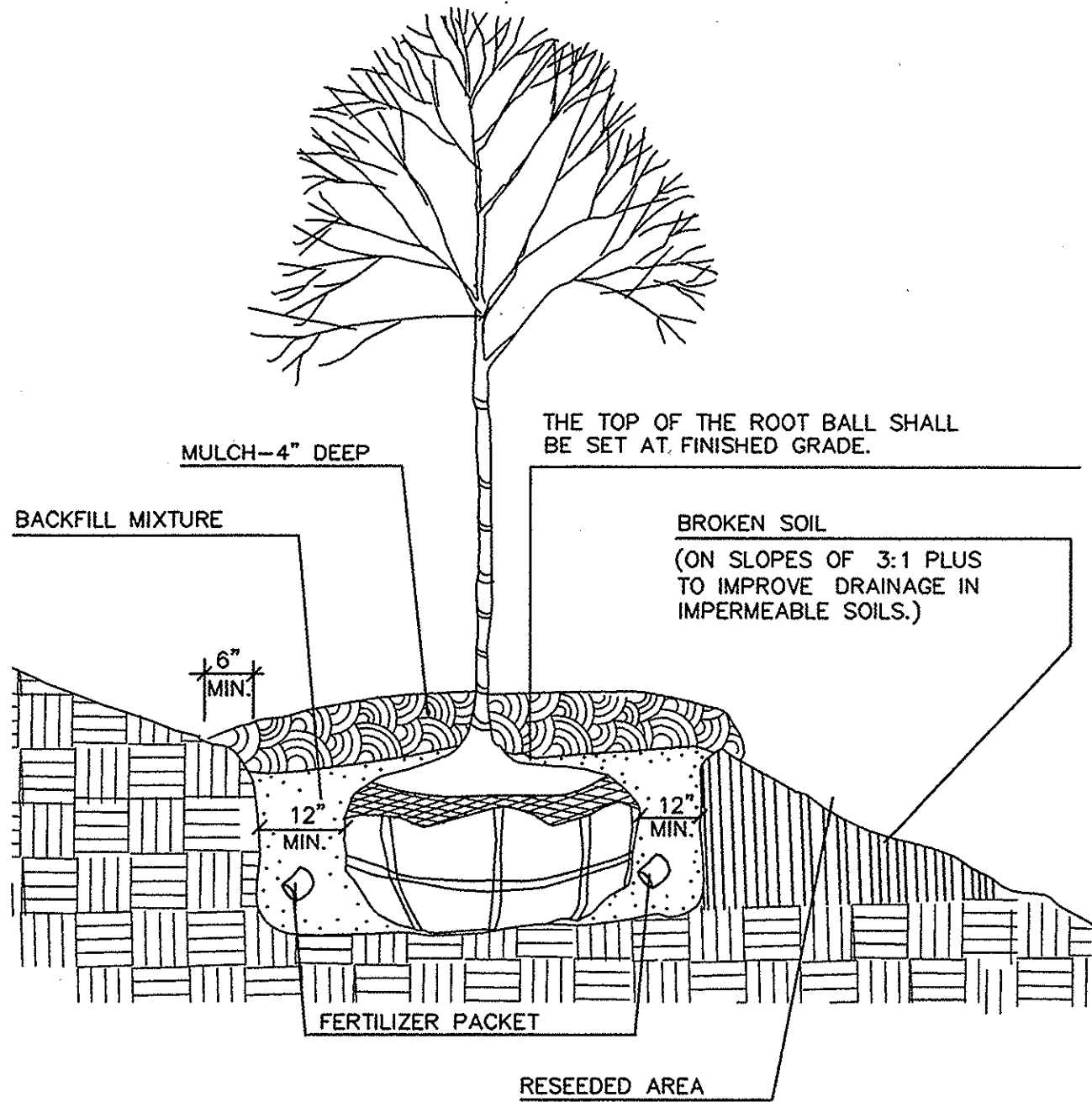
NO.	DATE	DESCRIPTION

FOR:
OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
EXISTING CONDITIONS PLAN
PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

CO. BY: PLOT DATE: AUGUST, 2004 DATE: AUGUST, 2004 L.O.O



GENERAL REQUIREMENTS

PER JANUARY 1, 2002 ODOT CONSTRUCTION & MATERIAL SPECIFICATIONS MANUAL. ALL PLANT MATERIALS AND PLANTING OPERATIONS TO MEET OR EXCEED STANDARDS SET OUT IN ODOT ITEMS 659, 661 & 662, UNLESS OTHERWISE. CONTRACTOR SHALL PROVIDE AN ONA (OHIO NURSERYMAN'S ASSOCIATION) CERTIFIED LANDSCAPE TECHNICIAN TO SUPERVISE THE PLANTING OPERATIONS.

ALL TURF GRASS, NATIVE GRASS AND WILDFLOWER FLOWER MATERIALS AND PLANTING OPERATIONS TO BE PER ODOT ITEM 659 UNLESS OTHERWISE NOTED.

TOPSOIL ITEM 653

ALL TOPSOIL MATERIAL AND OPERATIONS SHALL BE PER ITEMS 201, 203, 204, 651, 652, 653, 654 & 659 UNLESS OTHERWISE NOTED. SAMPLES ARE REQUIRED AND ARE TO BE TESTED BY AN APPROVED INDEPENDENT OHIO TESTING LABORATORY. TOPSOIL FAILING CURRENT TEST STANDARDS MAY BE ALTERED, UPON APPROVAL OF THE ASSOCIATE BY ADDING APPROVED CONDITIONERS TO CORRECT THE DEFICIENCIES PER ITEM 654. TOPSOIL SHALL BE FREE OF JOHNSON GRASS AS DETERMINED BY SOIL ANALYSIS RESULTS AND/OR THE ASSOCIATE.

LAYOUT OF LANDSCAPE PLANTING

LOCATIONS OF PLANTS AND OUTLINES OF BED AREAS SHALL BE CLEARLY MARKED ON THE GROUND IN CONFORMANCE WITH THE LANDSCAPE PLAN. MAJOR PLANT MATERIALS SHALL HAVE THEIR LOCATIONS STAKED PRIOR TO EXCAVATION FOR APPROVAL OF THE ASSOCIATE. LOCATIONS MAY BE REVISITED BY RE-STAKING PRIOR TO EXCAVATION.

PLANTING HOLE PREPARATION

WHERE TREES AND SHRUBS ARE SHOWN ON THE PLANS, THE INDIVIDUAL HOLES SHALL BE DUG ON CENTERS. THESE HOLES SHALL ALLOW FOR A MINIMUM OF 12" (INCHES) OF BACKFILL MIXTURE AROUND THE SIDES OF THE BALLS AS ILLUSTRATED. THE BOTTOM OF THE HOLE SHALL BE DUG NO DEEPER THAN THE BALL TO BE PLANTED. THE MATERIAL REMOVED FROM THE HOLES SHALL NOT BE USED AS BACKFILL OR IN PLANTING OPERATIONS. EXISTING TREES AND SHRUBS DESIGNATED TO REMAIN SHALL TAKE PRIORITY OVER PROPOSED PLANTINGS. THE LOCATIONS OF THE PROPOSED TREES AND SHRUBS ARE APPROXIMATE AND MAY BE RE-ARRANGED AT THE DIRECTION OF THE ASSOCIATE WHEN OBSTRUCTIONS ARE ENCOUNTERED.

IF AN AUGER IS USED IN DIGGING POCKET HOLES AND POLISHED (SHINY) SIDES OCCUR IN CLAY OR HEAVY SOIL, THE USE OF SUCH AN AUGER SHALL BE DISCONTINUED AND THE HOLES SHALL BE DUG WITH A BACKHOE OR ANOTHER APPROVED METHOD.

PLANTER WELLS/PITS

FOR PLAZA PLANTER WELLS SEE DETAILS AND NOTES SHEET L3.0. FOR PLAZA PLANTER LOCATIONS SEE SHEETS L1.0 & L2.0. FOR PLANTING LOCATIONS SEE SHEETS L1.2, L1.3 & L2.3.

PLANTING HOLE AND BED BACKFILL MIXTURE

BACKFILL MIXTURE IS TO BE MIXED ON SITE AFTER RECEIPT OF SOIL SAMPLE ANALYSIS RESULTS AND THE SUBSEQUENT REQUIRED SOIL AMENDMENTS ARE PERFORMED (IF ANY) TO MEET STANDARDS SET OUT IN THE GENERAL REQUIREMENTS & TOPSOIL SECTIONS SET OUT ON THIS SHEET. THE REQUIRED BACKFILL MIX IS TO BE APPROVED BY THE ASSOCIATE PRIOR TO PLACEMENT. PLANTING BACKFILL MIXTURE TYPES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

BACKFILL NO. 1 - THE BACKFILL MIXTURE USED TO FILL POCKET HOLES IN LIGHT AND MEDIUM SOILS (SAND AND AVERAGE) SHALL CONSIST BY VOLUME OF 2 PARTS *SOIL CONDITIONER, 2 PARTS COMPRESSED SPHAGNUM PEAT OR 2 PARTS COM-TIL OR APPROVED EQUAL, AND 2 PARTS APPROVED TOPSOIL (ITEM 661.02)

BACKFILL NO. 2 - THE BACKFILL MIXTURE USED TO FILL POCKET HOLES IN HEAVY SOILS (CLAY AND SHALE) SHALL CONSIST BY VOLUME OF 1 PART *SOIL CONDITIONER, 1 PART COMPRESSED SPHAGNUM PEAT OR 1 PART COM-TIL, OR APPROVED EQUAL, AND 2 PARTS TOPSOIL. (ITEM 661.02)

SOIL CONDITIONER

A SOIL CONDITIONER SUCH AS "HAYDITE", "PERLITE" OR AN APPROVED EQUAL SHALL BE USED. THE PARTICLE SIZE GRADATION OF THE SOIL CONDITIONER SHALL BE AT LEAST 80% PASSING A NO. 6 SIEVE AND NOT MORE THAN 5% PASSING A NO. 50 SIEVE.

FERTILIZER ITEM SPECIAL

FOUR OUNCE (8-YEAR) COMMERCIAL FERTILIZED PACKETS USED IN PLANTING OPERATION SHALL BE DELIVERED DRY IN ORIGINAL, UNOPENED CONTAINERS. FERTILIZER ANALYSIS SHALL BE 16% NITROGEN, 8% PHOSPHORIC ACID AND 16% POTASH. FERTILIZER SHALL BE OF A SLOW RELEASE TYPE IN A POLYETHYLENE PERFORATED PACKET WITH MICROPORE HOLES.

THE PACKETS SHALL BE PLACED 6 TO 8 INCHES DEEP AND EVENLY SPACED AROUND THE PERIMETER OF THE PLANTING HOLE, ADJACENT TO THE BALL OR ROOT MASS BUT NOT IN DIRECT CONTACT WITH THE ROOTS. THE PACKETS SHALL NOT BE CUT, RIPPED OR DAMAGED.

EACH SHRUB OR TREE SHALL BE FERTILIZED ACCORDING TO THE FOLLOWING SCHEDULE:

TREE/SHRUB PLANTING PITS	
SHRUBS 2' - 3'	2 PACKETS
SHRUBS 3' - 4'	2 PACKETS
TREES 5' - 6'	3 PACKETS
TREES 6' - 8'	3 PACKETS
TREES 1-1/2" - 2" CAL.	4 PACKETS
TREES 2" - 2-1/2" CAL.	2 PACKETS
TREES 2-1/2" - 3" CAL.	3 PACKETS
TREES 3" - 3-1/2" CAL.	4 PACKETS
	5 PACKETS

IF IT BECOMES NECESSARY TO REMOVE AND REPLACE MISSING, DEAD OR UNHEALTHY PLANTS, ALL OLD PACKETS SHALL BE REPLACED WITH NEW PACKETS.

THE FOUR OUNCE 16-8-16 FERTILIZER PACKETS SHALL BE DESIGNATED BY THE MANUFACTURER TO BE EFFECTIVE FOR EIGHT YEARS. PACKETS SUCH AS "EESY GROW" (S&D PRODUCTS, INC., BOX 66, PRARIE DUCHEN, WISC. 53821 608-326-2821)

MULCH ITEM 661.13

MULCH SHALL BE AS PER ITEM 661 WITH THE FOLLOWING EXCEPTIONS. WOOD SHAVINGS OR PEAT MOSS OR CORN COBS SHALL NOT BE USED AS A TOP MULCH. WOOD CHIPS SHALL BE AGED (STOCKPILED) AT LEAST SIX MONTHS PRIOR TO PLACEMENT AROUND PLANTS AND ARE TO BE FREE OF ALL ASH SPECIES MATERIAL. MULCH SHALL BE SIX INCHES LOOSE MEASUREMENT AFTER MULCHING.

PRUNING ITEM 661.14

AFTER PLANTING, PRUNE BRANCHES OF DECIDUOUS STOCK AS NEEDED TO BALANCE LOSS OF ROOTS IN SUCH A MANNER TO PRESERVE NATURAL CHARACTER APPROPRIATE TO PARTICULAR REQUIREMENTS OF THE PLANT, ACCORDING TO STANDARD HORTICULTURAL PRACTICES. REMOVE BROKEN, DAMAGED AND UNSYMMETRICAL BRANCHES AND SUFFICIENT OTHER GROWTH TO INSURE HEALTHY AND SYMMETRICAL GROWTH OF NEW WOOD. DO NOT TRIM THE CENTRAL LEADER.

LANDSCAPE WATERING ITEM 662

PER ITEM 662 - WATER SHALL BE FURNISHED BY THE CONTRACTOR AND ALL PLANT MATERIAL SHALL BE WATERED THOROUGHLY AT THE TIME OF PLANTING REGARDLESS OF AMPLE MOISTURE CONTENT OF THE SURROUNDING SOIL. SUSPENSION OF WATERING OPERATIONS BECAUSE OF RAINFALL WILL BE DETERMINED BY THE ENGINEER, LANDSCAPE ARCHITECT OR HORTICULTURIST. AN AVERAGE OF ONE INCH OF RAINFALL PER WEEK SHALL BE CONSIDERED ADEQUATE. DETERMINATION OF RAINFALL SHALL BE BASED UPON THE USE OF A RAIN GAUGE APPROVED BY THE ASSOCIATE.

WATERING TABLE

VINES 1 YEAR POTTED	1 GAL. PER PLANT
SHRUBS 2'-3' SIZE	4 GAL. PER PLANT
SHRUBS 4'-5' SIZE	7 GAL. PER PLANT
TREES 5'-6' SIZE	10 GAL. PER PLANT
TREES 1-1/4" - 1-1/2" CAL.	15 GAL. PER PLANT
TREES 1-1/2" - 2-1/2" CAL.	20 GAL. PER PLANT
TREES 2" - 3" CAL.	25 GAL. PER PLANT
TREES 3" - 4" CAL.	30 GAL. PER PLANT

THE METHOD OF MEASUREMENT FOR SUMMER WATERING SHALL BE BY APPROVED METERING FROM TANKS OR BY INDIVIDUALLY MEASURED CONTAINERS TO EACH PLANT TO BE WATERED. PAYMENT FOR PLANTING PERIOD OF ESTABLISHMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS 661, 662 AND 659 AND IS CONSIDERED TO BE 15% OF THE COST FOR THE ITEM.

STAKING MATERIALS ITEM 661.16

ALL TREES SHALL BE STAKED AS SHOWN IN THE ODOT STANDARD DRAWING LA-1.2. STAKING OF SMALL ORNAMENTAL TREES SHALL BE SIMILAR TO THAT OF EVERGREENS UNLESS OTHERWISE NOTED ON DRAWINGS.

PLANT MATERIALS

ALL PLANT MATERIAL FURNISHED SHALL BE HEALTHY REPRESENTATIVES, TYPICAL OF THEIR SPECIES OR VARIETY AND SHALL HAVE A NORMAL HABIT OF GROWTH. ALL PLANTS SHALL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK ANSI Z60.1-1996. THEY SHALL BE FULL, WELL BRANCHED, WELL PROPORTIONED, AND HAVE A VIGOROUS, WELL DEVELOPED ROOT SYSTEM CAPABLE OF SUSTAINING VIGOROUS GROWTH. ALL PLANTS SHALL BE HARDY UNDER CLIMATIC CONDITIONS AND GROWN IN THE SAME HARDINESS ZONE, OR COLDER THAT THE PROJECT HARDINESS ZONE. ALL TREES AND SHRUBS SHALL BE NO. 1 GRADE PLANTS WITH GROWTH AND BRANCHING HAVIT TYPICAL OF THE SPECIFIED. NOT PARK GRADE (NO. 2 OR 3 GRADE) PLANTS WILL BE ACCEPTED, UNLESS OTHERWISE NOTED.

PLANTING PERIOD OF ESTABLISHMENT

PER ITEM 661 - BEFORE FINAL INSPECTION, ALL PLANTINGS SHALL BE IN PLACE AND UNDER THE CARE OF THE CONTRACTOR FOR A PERIOD OF ESTABLISHMENT. THIS PERIOD SHALL BEGIN IMMEDIATELY UPON COMPLETION OF THE PLANTING OPERATIONS FOR ANY PLANT OR SPECIES GROUP AND CONTINUE UNTIL OCTOBER 1. IN NO CASE SHALL IT BE LESS THAN ONE YEAR.

DURING THIS PERIOD OF ESTABLISHMENT, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW SUCH HORTICULTURAL PRACTICES AS REQUIRED TO ASSURE THE VIGOR AND GROWTH OF THE TRANSPLANTED MATERIAL. THIS CARE SHALL INCLUDE WATERING, REMULCHING, RESTAKING, GUYING AND CULTIVATING. THERE SHALL BE A MINIMUM OF TWO WEEDING AND MOWING (BED EDGES, AROUND TREES AND GUY STAKES) PROGRAMS OF SUCH INTENSITY AS TO COMPLETELY RID THE PLANTED AND MULCHED AREAS OF WEEDS AND GRASSES. THE FIRST PROGRAM SHALL BEGIN ON OR ABOUT JUNE 15 AND THE OTHER APPROXIMATELY 8 WEEKS LATER.

EACH PLANT SHALL HAVE SUFFICIENT WATER TO KEEP IT IN A HEALTHY, GROWING CONDITION. IF LOCAL WEATHER CONDITIONS WARRANT, WEEKLY WATERING MAY BE REQUIRED. A SCHEDULE FOR WATERING EACH PLANT AND REQUIRED MAINTENANCE AS DESCRIBED PER ITEM 661 & 662 SHALL BE SUPPLIED FOR APPROVED PRIOR TO PLACING BY THE ASSOCIATE BEFORE PLANTING BEGINS. SOIL MIXTURE TO BE TESTED IN EACH PLANTING ZONE BY A SOIL MOISTURE METER APPROVED BY THE ASSOCIATE. WATERING IS TO BE DONE IN CONFORMANCE WITH THE WATERING TABLE WHEN NEED IS INDICATED BY METER READINGS. THE WATER SHALL BE APPLIED IN SUCH A MANNER AS TO SATURATE THE ROOT AND MULCHED AREA OF EACH PLANT WITHOUT CAUSING RUN-OFF (SEE WATERING TABLE). IN CASE OF FALL PLANTINGS, THESE WATERINGS SHALL CONTINUE UNTIL SOIL FREEZES UP AND RECOMMENCE AFTER THE SPRING THAW UNLESS OTHERWISE DIRECTED. ON OR ABOUT SEPTEMBER 15, THE ASSOCIATE SHALL INSPECT THE PLANTING AND SUPPLY THE CONTRACTOR WITH A LISTING OF THOSE PLANTS HAVING DIED, DIE BACK BEYOND NORMAL PRUNING LINES OR ARE MISSING FROM THE PLANTING. THE CONTRACTOR SHALL MAKE THE REPLANTING AS REQUIRED IN ACCORDANCE WITH THE SPECIFICATIONS FOR THE ORIGINAL MATERIAL.

THESE REPLACEMENTS ARE SUBJECT TO A NEW PERIOD OF ESTABLISHMENT. IMMEDIATELY REPLACE PLANTS PLANTED INITIALLY IN THE FALL THAT HAVE DIED BEFORE THE SPRING PLANTING SEASON. ADDITIONALLY, PLANTS PLANTED INITIALLY IN THE FALL WHICH HAVE DIED BEFORE THE SPRING PLANTING SEASON SHALL BE ALSO BE REPLACED IMMEDIATELY AND ARE SUBJECT TO THE ESTABLISHMENT PERIOD. AFTER REPLACEMENTS HAVE BEEN PLANTED, THE FINAL INSPECTION SHALL BE MADE AND THE ACTUAL COUNT OF LIVE PLANTS OF EACH VARIETY AND SPECIES LISTED FOR PAYMENT.

HERBICIDES

THE MONTH PRIOR TO CULTIVATION AND PLANTING ALL SHRUB BEDS WILL BE TREATED WITH ROUNDUP BRAND HERBICIDE OR AN APPROVED EQUAL IF WEEDS ARE PRESENT. AFTER VEGETATION PLACEMENT AND FERTILIZING HAVE BEEN COMPLETED AND APPROVED, THE SHRUB BEDS WILL BE TREATED WITH SURFLAN BRAND HERBICIDE OR AN APPROVED EQUAL. THE RATE AND METHOD OF APPLICATION SHALL BE IN STRICT CONFORMANCE WITH THE MANUFACTURERS PRODUCT LABEL AND CONSISTENT WITH CURRENT PRACTICES FOR ROADSIDE MANAGEMENT. THIS WORK SHALL BE ACCOMPLISHED UNDER THE DIRECT SUPERVISION OF A PESTICIDE APPLICATOR LICENSED BY THE STATE OF OHIO.

STORAGE AREAS ITEM 661.07

THE CONTRACTOR MAY STORE PLANT MATERIALS AND EQUIPMENT WITHIN THE PROJECT LIMITS AT AN APPROVED LOCATION BY OBTAINING OFFICIAL PERMISSION OF THE ASSOCIATE. NO PEDESTRIAN OR VEHICULAR TRAFFIC MAY BE IMPEDED, NOR HAZARDOUS CONDITION CREATED AS A RESULT OF SUCH STORAGE.

THE STORAGE OF ALL DUG PLANTS SHALL CONFORM TO ITEM 661 WHETHER WITHIN THE PROJECT LIMITS, ADJACENT THERETO, OR AT SOME OTHER LOCATION. THESE AREAS SHALL BE DESIGNATED PRIOR TO ACTUAL PLANT STORAGE AND SHALL BE OPEN TO INSPECTION UPON REQUEST OF THE ASSOCIATE.

INSPECTION ITEM 661.04

ALL PLANTS SHALL BE INSPECTED AND CERTIFIED IN COMPLIANCE WITH STATE AND FEDERAL LAW BY STATE NURSERY INSPECTOR, AND SHALL BE HEALTHY, VIGOROUS PLANTS FREE FROM HARMFUL DEFECTS, DECAY, DISFIGURED STEMS OR ROOTS, PLANT DISEASES, OR INSECT PESTS.

RECOMMENDED SUBSTITUTIONS OF SPECIFIED PLANT SPECIES MUST BE APPROVED BY THE OWNER.

SCHEDULING ITEM 661.06

ALL DIGGING AND PLANTING OPERATIONS PER ITEM 659 & 661 UNLESS OTHERWISE NOTED. FOR DECIDUOUS PLANTS SHALL BE DONE BETWEEN SEPTEMBER 15 AND DECEMBER 1 AND/OR MARCH 15 AND JUNE 1. EVERGREENS SHALL BE DUG AND PLANTED AFTER MARCH 15 AND BEFORE JUNE 1. ALL NATIVE GRASSES AND WILDFLOWERS TO BE PLANTED AFTER SEPTEMBER 1 AND BEFORE OCTOBER 31.

GENERAL REQUIREMENTS

ALL PLANT MATERIAL TO BE INSTALLED PER ODOT ITEMS 661 AND 662 UNLESS OTHERWISE DESCRIBED HEREIN. CONTRACTOR SHALL PROVIDE ONA (OHIO NURSERYMAN'S ASSOCIATION) CERTIFIED LANDSCAPE TECHNICIAN TO SUPERVISE THE PLANTING OPERATION.

WARRANTY

THE CONTRACTOR WILL WARRANTY ALL PLANTS TO BE IN SATISFACTORY GROWING CONDITION AND TO LIVE FOR A PERIOD OF TWO YEARS FROM COMPLETION OF PROJECT. ALL PLANTS INSTALLED PRIOR TO DECEMBER 31ST SHALL BE GUARANTEED TO BREAK INTO VIGOROUS GROWTH (NOT JUST BUD BREAK) FOR THEIR 1ST AND 2ND INSTALLED SPRING SEASONS. PLANTS WILL BE REPLACED ONCE DURING THE WARRANTY PERIOD. COMPLY WITH ODOT ITEM 661.01

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO WATER AS NECESSARY FOR THE CONTINUOUS VIGOR OF THE PLANTS DURING THE ESTABLISHMENT PERIOD. THE COST OF WATERING WILL BE AT THE SOLE COST OF THE CONTRACTOR.

PLANT TRANSPORT

ALL PLANTS SHALL BE DELIVERED ON TRUCKS WITH THE ENTIRE LOAD COMPLETELY COVERED FOR PROTECTION.

EXISTING TREES TO REMAIN

ALL TREE ROOT AERATION AND PRUNING OF DESIGNATED EXISTING TREES AND SHRUBS SHALL BE PER ITEMS 658 & 666.

CONSULTING ARCHITECTS & ENGINEERS ARCHITECT: OFFICE OF THE STATE ARCHITECT MECHANICAL, ELECTRICAL & STRUCTURAL: S&A, INC. SITE/CIVIL: KZF DESIGN LANDSCAPE ARCHITECTURE: KINZELMAN KLINE		
REVISIONS		
NO.	DATE	DESCRIPTION
FOR: OHIO DEPT. OF TRANSPORTATION		
DRAWING DESCRIPTION: GENERAL NOTES PROJECT NO. 770-2003-074 I-70 / LICKING COUNTY REST AREA		
STATE OF OHIO DEPARTMENT OF ADMINISTRATIVE SERVICES GENERAL SERVICES DIVISION PREPARED BY: GENERAL SERVICES DIVISION OFFICE OF THE STATE ARCHITECT		
CO. MEET PLANT DATE: AUGUST, 2004	DATE: AUGUST, 2004	L0.1

BID/CONSTRUCTION SET



SHEET NUMBER														ITEM	EXT.		UNIT	DESCRIPTION
L1.0	L1.1	L1.2	L1.3	L1.4	L2.0	L2.1	L2.2	L2.3	L2.4	L3.0								
																		DRAINAGE
	●					●								518	40001		FT.	6" PERFORATED CORRUGATED PLASTIC PIPE, AS PER PLAN
	●					●								518	40010		FT.	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS
																		PAVEMENT
●	●				●	●								204	10000		S.Y.	SUBGRADE COMPACTION
●	●				●	●								304	20001		C.Y.	AGGREGATE BASE, AS PER PLAN
●					●									305	10001		S.Y.	CONCRETE BASE, AS PER PLAN
●					●									SPECIAL			S.Y.	1/2" SAND SETTING BED
●	●				●	●								608	10001		S.F.	4" CONCRETE WALK, AS PER PLAN
●	●				●	●								608	15001		S.F.	8" CONCRETE WALK, AS PER PLAN
●					●									451	15501		S.Y.	11" REINFORCED CONCRETE PAVEMENT (DUMPSTER PAD), AS PER PLAN
●					●									SPECIAL			S.F.	3" BRICK DETECTABLE WARNING UNIT PAVERS, AS PER PLAN
●	●				●	●								509	10001		POUND	EPOXY COATED REINFORCING STEEL (DOWEL BARS), AS PER PLAN
	●					●								SPECIAL			C.Y.	3/4" LOCAL WASH GRAVEL (6" DEPTH) AS PER PLAN
	●					●								SPECIAL			EACH	LIGHTING
	●					●								SPECIAL			EACH	TREE UPLIGHTING, AS PER PLAN
●					●									SPECIAL			EACH	FLAGPOLE UPLIGHTS, AS PER PLAN
●					●									SPECIAL			EACH	14' POLE (PEDESTRIAN LIGHTING), AS PER PLAN
					●									SPECIAL			EACH	20' POLE (CAR PARKING LOTS), AS PER PLAN
					●									SPECIAL			EACH	30' POLE (STREET LIGHTING), AS PER PLAN
●					●									SPECIAL			EACH	40' POLE (BUS AND TRUCK PARKING LOTS), AS PER PLAN
																		LANDSCAPING
			●					●						653	10001		C.Y.	IMPORTED TOPSOIL FURNISHED AND PLACED, AS PER PLAN
			●					●						SPECIAL			C.Y.	STRUCTURAL TOPSOIL MIX FURNISHED AND PLACED, AS PER PLAN
			●					●						659	00500		S.Y.	SEEDING AND MULCHING, CLASS 1, AS PER PLAN
			●					●		●				659	00510		S.Y.	SEEDING AND MULCHING, CLASS 2, AS PER PLAN
			●					●						SPECIAL			S.Y.	SEEDING AND MULCHING, MEADOW MIX, AS PER PLAN
			●					●						661	13000		EACH	GROUND COVER, 2 YEAR, POTTED, GAULTHERIA PROCUMBENS
			●					●						661	14001		EACH	PERENNIAL, 2 YEAR BULB, NARCISSUS SP. 'TRIPARTITE', AS PER PLAN
			●					●						661	20020		EACH	DECIDUOUS SHRUB, 18" HEIGHT, CORNUS STOLONIFERA
			●					●						661	20061		EACH	DECIDUOUS SHRUB, 3' HEIGHT, AS PER PLAN, HAMAMELIS VERNALIS
			●					●						661	20061		EACH	DECIDUOUS SHRUB, 3' HEIGHT, AS PER PLAN, VIBURNUM DENTATUM
			●					●						661	40021		EACH	DECIDUOUS TREE, 6' HEIGHT, AS PER PLAN, CERCIS CANADENSIS
			●					●						661	40061		EACH	DECIDUOUS TREE, 1-1/2" CALIPER, AS PER PLAN, AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'
			●					●						661	40061		EACH	DECIDUOUS TREE, 1-1/2" CALIPER, AS PER PLAN, CRATAEGUS PUNCTATA 'OHIO PIONEER'
								●						661	40040		EACH	DECIDUOUS TREE, 1" CALIPER, AS PER PLAN, ACER RUBRUM 'ARMSTRONG'
								●						661	40040		EACH	DECIDUOUS TREE, 1" CALIPER, AS PER PLAN, ACER SACCHARUM
								●						661	40040		EACH	DECIDUOUS TREE, 1" CALIPER, AS PER PLAN, FAGUS GRANDIFOLIA
								●						661	40040		EACH	DECIDUOUS TREE, 1" CALIPER, AS PER PLAN, GLEDITSIA TRIACANTHOS INERMIS
								●						661	40040		EACH	DECIDUOUS TREE, 1" CALIPER, AS PER PLAN, NYSSA SYLVATICA
								●						661	40040		EACH	DECIDUOUS TREE, 1" CALIPER, AS PER PLAN, PRUNUS SEROTINA
								●						661	40040		EACH	DECIDUOUS TREE, 1" CALIPER, AS PER PLAN, QUERCUS PALUSTRIS
								●						661	40040		EACH	DECIDUOUS TREE, 1" CALIPER, AS PER PLAN, QUERCUS RUBRA
			●					●						661	40101		EACH	DECIDUOUS TREE, 2-1/2" CALIPER, AS PER PLAN, ACER RUBRUM 'ARMSTRONG'
			●					●						661	40101		EACH	DECIDUOUS TREE, 2-1/2" CALIPER, AS PER PLAN, ACER SACCHARUM
			●					●						661	40101		EACH	DECIDUOUS TREE, 2-1/2" CALIPER, AS PER PLAN, FAGUS GRANDIFOLIA
			●					●						661	40101		EACH	DECIDUOUS TREE, 2-1/2" CALIPER, AS PER PLAN, NYSSA SYLVATICA
			●					●						661	40101		EACH	DECIDUOUS TREE, 2-1/2" CALIPER, AS PER PLAN, PRUNUS SEROTINA
			●					●						661	40101		EACH	DECIDUOUS TREE, 2-1/2" CALIPER, AS PER PLAN, QUERCUS MACROCARPA
			●					●						661	40101		EACH	DECIDUOUS TREE, 2-1/2" CALIPER, AS PER PLAN, QUERCUS PALUSTRIS
			●					●						661	40101		EACH	DECIDUOUS TREE, 2-1/2" CALIPER, AS PER PLAN, QUERCUS RUBRA
			●					●						661	50101		EACH	EVERGREEN TREE, 5' HEIGHT, AS PER PLAN, JUNIPERUS VIRGINIANA
			●					●						661	50140		EACH	EVERGREEN TREE, 7' HEIGHT, AS PER PLAN, THUJA OCCIDENTALIS 'NIGRA'
			●					●		●				661	00501		C.Y.	SHREDDED HARDWOOD MULCH
			●					●		●				SPECIAL			C.Y.	1"-4" LOCAL WASH GRAVEL (6" DEPTH), AS PER PLAN
			●					●		●				662	30000		M. GAL.	LANDSCAPE WATERING
			●					●		●				SPECIAL			EACH	FERTILIZER PACKETS

CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL & STRUCTURAL
SRA, INC.
SITE/CIVIL:
KZF DESIGN
LANDSCAPE ARCHITECTURE:
KINZELMAN KLINE

REVISIONS		
NO.	DATE	DESCRIPTION



FOR:
OHIO DEPT. OF TRANSPORTATION

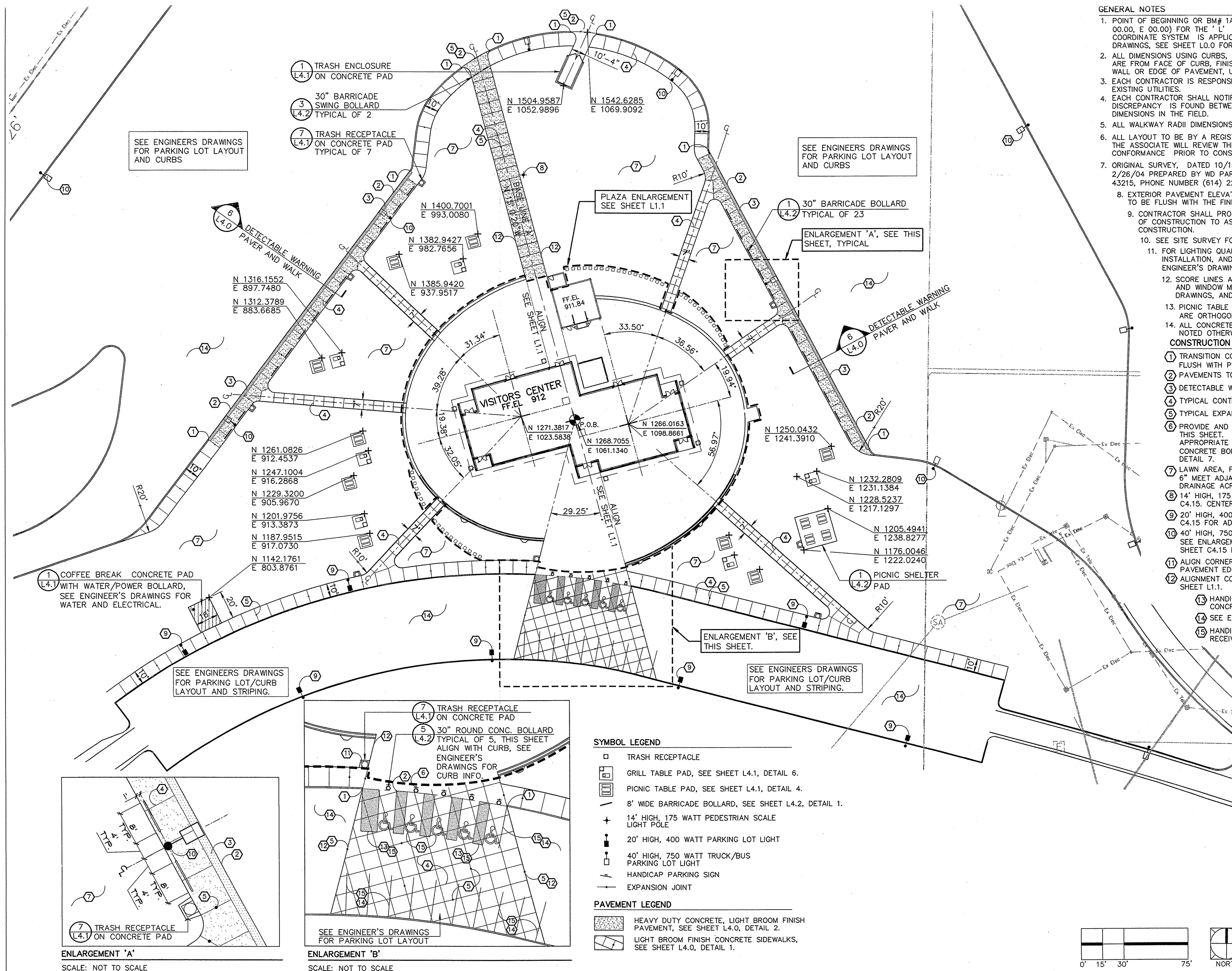
DRAWING DESCRIPTION:
GENERAL SPEC & SUMMARY-1
PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

CD NOT PLAT DATE
AUGUST, 2004
DATE
AUGUST, 2004
L.O.2

BID/CONSTRUCTION SET

[illegible]



- GENERAL NOTES**
1. POINT OF BEGINNING OR BM# 1A HAS BEEN ESTABLISHED AS THE ORIGIN POINT (N 00.00, E 00.00) FOR THE 'L' SERIES LAYOUT DRAWINGS OF THIS PROJECT. THE COORDINATE SYSTEM IS APPLICABLE TO ONLY THE ABOVE REFERENCED DRAWINGS, SEE SHEET L0.0 FOR BENCHMARK AND SURVEY INFORMATION.
 2. ALL DIMENSIONS USING CURBS, BUILDING WALLS OR PAVEMENT AS A REFERENCE ARE FROM FACE OF CURB, FINISHED FACE OF BUILDING, FINISHED FACE OF WALL OR EDGE OF PAVEMENT, UNLESS NOTED OTHERWISE.
 3. EACH CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES.
 4. EACH CONTRACTOR SHALL NOTIFY THE ASSOCIATE IMMEDIATELY IF A DISCREPANCY IS FOUND BETWEEN THE DIMENSION GIVEN AND ACTUAL DIMENSIONS IN THE FIELD.
 5. ALL WALKWAY RADII DIMENSIONS ARE 5'-0", UNLESS NOTED OTHERWISE.
 6. ALL LAYOUT TO BE BY A REGISTERED SURVEYOR OR ENGINEER. THE ASSOCIATE WILL REVIEW THE LAYOUT FOR GENERAL CONFORMANCE PRIOR TO CONSTRUCTION.
 7. ORIGINAL SURVEY, DATED 10/15/03, AND SUBSEQUENT REVISION, DATED 2/26/04 PREPARED BY WD PARTNERS, 1201 DUBLIN ROAD, COLUMBUS, OHIO 43215, PHONE NUMBER (614) 221-0840.
 8. EXTERIOR PAVEMENT ELEVATIONS AT ALL ENTRANCES TO BUILDING ARE TO BE FLUSH WITH THE FINISHED FLOOR ELEVATION IN THE BUILDING.
 9. CONTRACTOR SHALL PROVIDE TEMPORARY BARRIERS AT LIMITS OF CONSTRUCTION TO ASSURE PUBLIC SAFETY DURING CONSTRUCTION.
 10. SEE SITE SURVEY FOR BENCHMARK INFORMATION, SHEET L0.0.
 11. FOR LIGHTING QUANTITIES, SEE SHEET L0.2, FOR INSTALLATION, AND ELECTRICAL INFORMATION, SEE ENGINEER'S DRAWINGS.
 12. SCORE LINES ARE BASED ON DOOR CENTERLINES AND WINDOW MULLIONS, REFER TO ARCHITECTURAL DRAWINGS, AND SHEET L1.1.
 13. PICNIC TABLE PAD, GRILL TABLE PAD, AND PICNIC SHELTER PAD ARE ORTHOGONAL TO BASELINE 'A'.
 14. ALL CONCRETE PAVEMENT TO BE LIGHT BROOM FINISH UNLESS NOTED OTHERWISE.

- CONSTRUCTION NOTES**
1. TRANSITION CONCRETE CURB AND WALK FROM 6" HGT. TO FLUSH WITH PAVEMENT WITHIN 6'-6".
 2. PAVEMENTS TO MEET FLUSH.
 3. DETECTABLE WARNING PAVERS, SEE SHEET L4.0, DETAIL 6.
 4. TYPICAL CONTROL JOINT
 5. TYPICAL EXPANSION JOINT
 6. PROVIDE AND INSTALL HANDICAP PARKING SIGNS, TYPICAL OF 5, THIS SHEET. IDENTIFY 1 VAN ACCESSIBLE SPACE WITH APPROPRIATE SIGNAGE. LOCATE SIGN BEHIND CENTERLINE OF CONCRETE BOLLARD 18" (VISITORS CENTER SIDE) SEE SHEET L4.0, DETAIL 7.
 7. LAWN AREA, FILL WITH TOPSOIL, MINIMUM DEPTH SHALL BE 6" MEET ADJACENT SURFACES FLUSH. PROVIDE POSITIVE DRAINAGE ACROSS ALL SURFACES.
 8. 14' HIGH, 175 WATT PEDESTRIAN SCALE LIGHT POLE, SEE SHEET C4.15. CENTER POLES ON PADS OR BANDS AS APPROPRIATE.
 9. 20' HIGH, 400 WATT PARKING LOT LIGHT, SEE SHEET C4.15 FOR ADDITIONAL LIGHTING INFORMATION.
 10. 40' HIGH, 750 WATT TRUCK/BUS PARKING LOT LIGHT, SEE ENLARGEMENT 'A', THIS SHEET FOR LAYOUT, SEE SHEET C4.15 FOR LIGHTING INFO.
 11. ALIGN CORNER OF TRASH RECEPTACLE AT CORNER OF PAVEMENT EDGES.
 12. ALIGNMENT CONTINUATION OF PLAZA SCORING SEE LAYOUT SHEET L1.1.
 13. HANDICAP AISLES TO RECEIVE MEDIUM BROOM FINISH AND CONCRETE STAIN & SEALER, SEE SPECS.
 14. SEE ENGINEER'S PLAN FOR STRIPING LOCATIONS.
 15. HANDICAP SYMBOLS AND PAVEMENT MARKINGS TO RECEIVE CONCRETE STAIN AND SEALER, SEE SPECS.

- SYMBOL LEGEND**
- ☐ TRASH RECEPTACLE
 - ☐ GRILL TABLE PAD, SEE SHEET L4.1, DETAIL 6.
 - ☐ PICNIC TABLE PAD, SEE SHEET L4.1, DETAIL 4.
 - 8' WIDE BARRICADE BOLLARD, SEE SHEET L4.2, DETAIL 1.
 - + 14' HIGH, 175 WATT PEDESTRIAN SCALE LIGHT POLE
 - 20' HIGH, 400 WATT PARKING LOT LIGHT
 - ◻ 40' HIGH, 750 WATT TRUCK/BUS PARKING LOT LIGHT
 - HANDICAP PARKING SIGN
 - EXPANSION JOINT

- PAVEMENT LEGEND**
- HEAVY DUTY CONCRETE, LIGHT BROOM FINISH PAVEMENT, SEE SHEET L4.0, DETAIL 2.
 - LIGHT BROOM FINISH CONCRETE SIDEWALKS, SEE SHEET L4.0, DETAIL 1.

CONSULTING ARCHITECTS & ENGINEERS
 ARCHITECT:
OFFICE OF THE STATE ARCHITECT
 MECHANICAL, ELECTRICAL & STRUCTURAL
SRA, INC.
 SITE/CIVIL:
KZF DESIGN
 LANDSCAPE ARCHITECTURE:
KINZELMAN KLINE

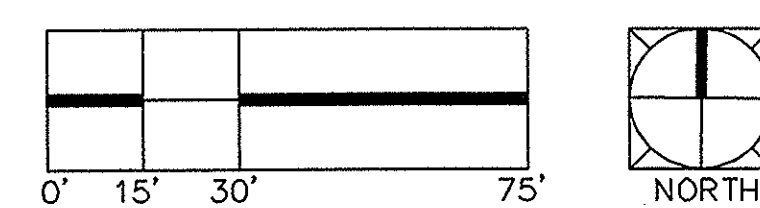
REVISIONS		
NO.	DATE	DESCRIPTION

FOR:
OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION: (West Boro)
 LAYOUT PLAN - NORTH SIDE
PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

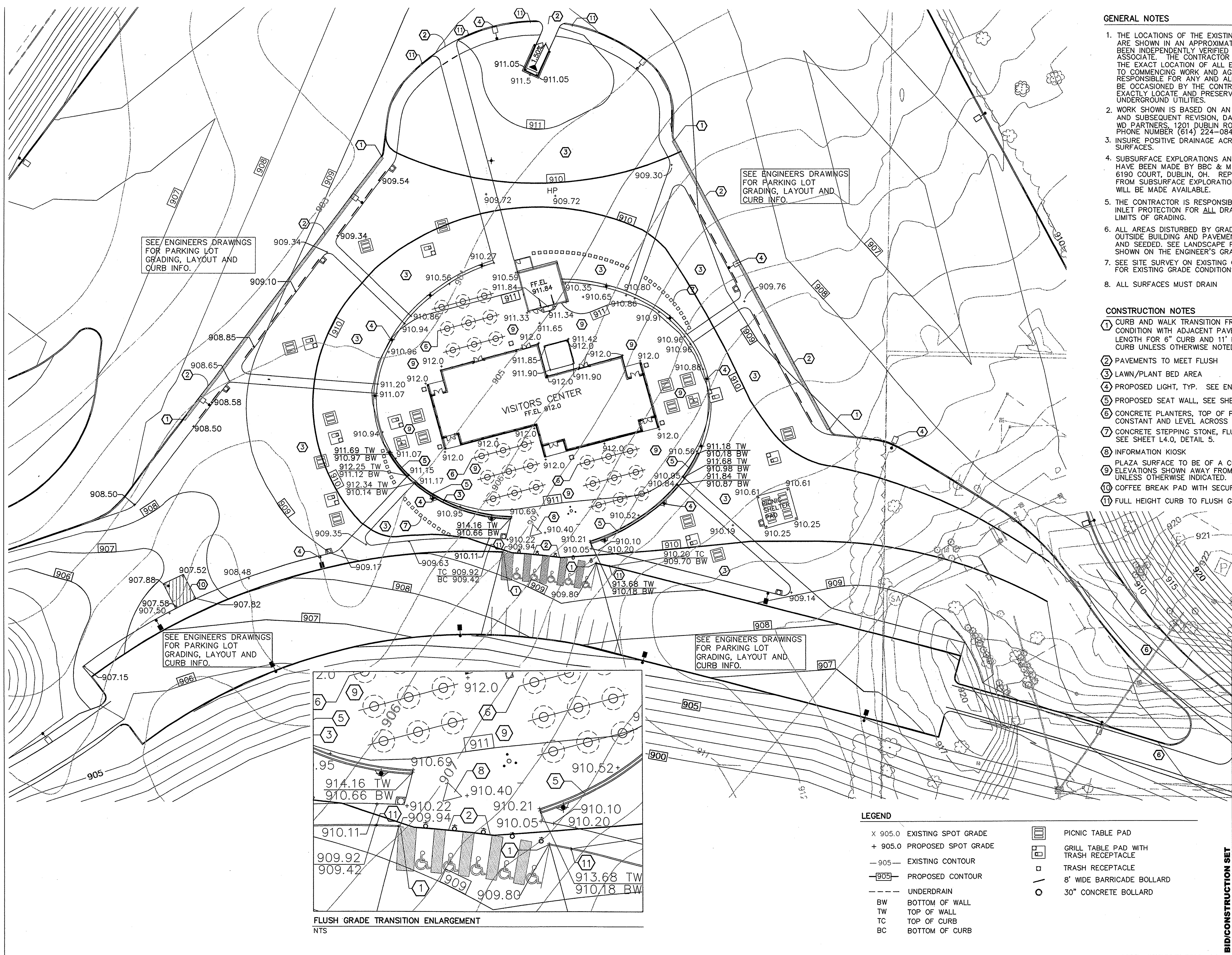
STATE OF OHIO
 DEPARTMENT OF ADMINISTRATIVE SERVICES
 GENERAL SERVICES DIVISION
 PREPARED BY
 GENERAL SERVICES DIVISION
 OFFICE OF THE STATE ARCHITECT

CO SET PLOT DATE	DATE	
AUGUST, 2004	AUGUST, 2004	L1.0



ENLARGEMENT 'A'
 SCALE: NOT TO SCALE

ENLARGEMENT 'B'
 SCALE: NOT TO SCALE

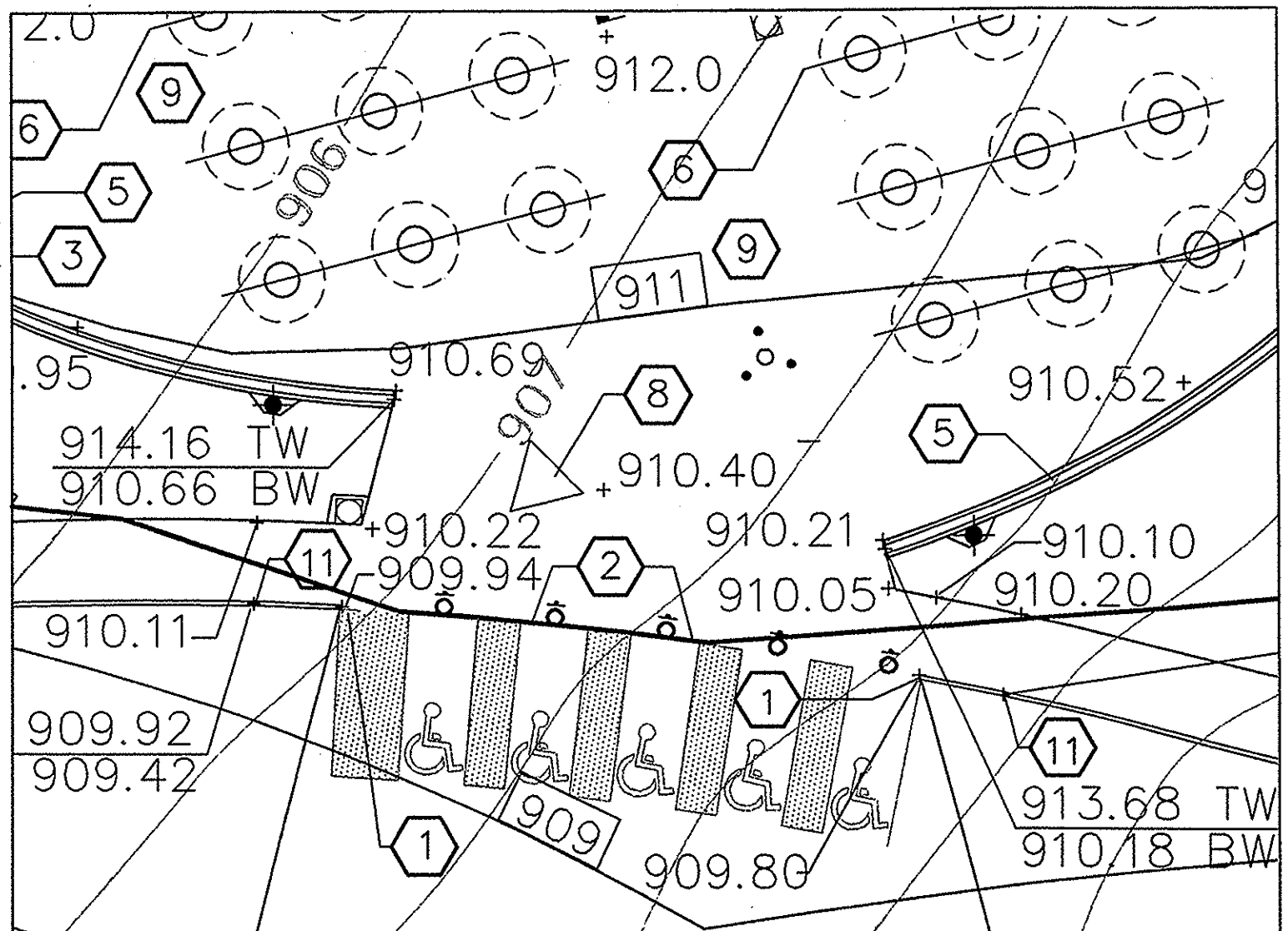


SEE ENGINEERS DRAWINGS FOR PARKING LOT GRADING, LAYOUT AND CURB INFO.

SEE ENGINEERS DRAWINGS FOR PARKING LOT GRADING, LAYOUT AND CURB INFO.

SEE ENGINEERS DRAWINGS FOR PARKING LOT GRADING, LAYOUT AND CURB INFO.

SEE ENGINEERS DRAWINGS FOR PARKING LOT GRADING, LAYOUT AND CURB INFO.



FLUSH GRADE TRANSITION ENLARGEMENT
NTS

LEGEND

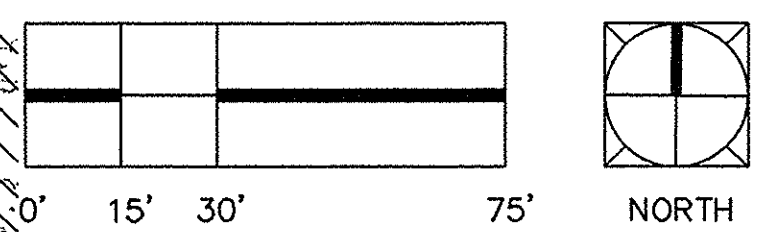
- X 905.0 EXISTING SPOT GRADE
- + 905.0 PROPOSED SPOT GRADE
- 905- EXISTING CONTOUR
- 905- PROPOSED CONTOUR
- UNDERDRAIN
- BW BOTTOM OF WALL
- TW TOP OF WALL
- TC TOP OF CURB
- BC BOTTOM OF CURB
- PICNIC TABLE PAD
- GRILL TABLE PAD WITH TRASH RECEPTACLE
- TRASH RECEPTACLE
- 8' WIDE BARRICADE BOLLARD
- 30" CONCRETE BOLLARD

GENERAL NOTES

1. THE LOCATIONS OF THE EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ASSOCIATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
2. WORK SHOWN IS BASED ON AN ORIGINL SURVEY DATED 10/15/03 AND SUBSEQUENT REVISION, DATED 2/26/04 PREPARED BY W/D PARTNERS 1201 DUBLIN ROAD,COLUMBUS 43215 PHONE NUMBER (614) 224-0840.
3. INSURE POSITIVE DRAINAGE ACROSS ALL FINISHED GRADED SURFACES.
4. SUBSURFACE EXPLORATIONS AND FOUNDATION RECOMMENDATIONS HAVE BEEN MADE BY BBC & M ENGINEERING, INC., 6190 ENTERPRISE 6190 COURT, DUBLIN, OH. REPORT CONTAINING DATA FROM SUBSURFACE EXPLORATIONS. DATED MARHC 1, 2004. WILL BE MADE AVAILABLE.
5. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING INLET PROTECTION FOR ALL DRAIN INLETS WITHIN THE LIMITS OF GRADING.
6. ALL AREAS DISTURBED BY GRADING OPERATIONS OUTSIDE BUILDING AND PAVEMENT AREAS ARE TO BE FINE GRADED AND SEEDED. SEE LANDSCAPE PLANS L1.2, L1.3, L2.3 AND AS SHOWN ON THE ENGINEER'S GRADING & ROADWAY SECTION DRAWINGS.
7. SEE SITE SURVEY ON EXISTING CONDITIONS SHEET L0.3 FOR EXISTING GRADE CONDITIONS AND BENCH MARK INFORMATION.
8. ALL SURFACES MUST DRAIN

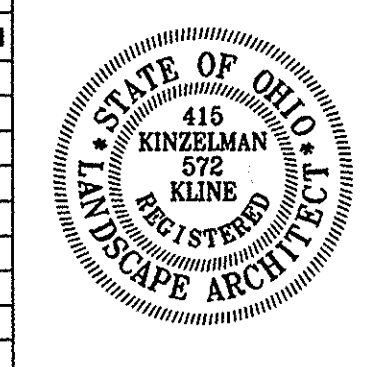
CONSTRUCTION NOTES

- 1 CURB AND WALK TRANSITION FROM FULL CURB HGT. TO A FLUSH CONDITION WITH ADJACENT PAVEMENT. 6.5' MIN. RAMPING LENGTH FOR 6" CURB AND 11' MIN. RAMPING LENGTH FOR 10" CURB UNLESS OTHERWISE NOTED.
- 2 PAVEMENTS TO MEET FLUSH
- 3 LAWN/PLANT BED AREA
- 4 PROPOSED LIGHT, TYP. SEE ENGINEERS DRAWINGS FOR LIGHTING.
- 5 PROPOSED SEAT WALL, SEE SHEET L4.3, DETAILS 1 & 2.
- 6 CONCRETE PLANTERS, TOP OF PLANTER ELEVATIONS TO BE CONSTANT AND LEVEL ACROSS EACH ROW.
- 7 CONCRETE STEPPING STONE, FLUSH WITH GRADE, SEE SHEET L4.0, DETAIL 5.
- 8 INFORMATION KIOSK
- 9 PLAZA SURFACE TO BE OF A CONSTANT SLOPE BETWEEN SPOT ELEVATIONS SHOWN AWAY FROM BUILDING IN ALL DIRECTIONS, UNLESS OTHERWISE INDICATED.
- 10 COFFEE BREAK PAD WITH SECURE POWER/WATER BOLLARD
- 11 FULL HEIGHT CURB TO FLUSH GRADE TRANSITION START



CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT: OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL & STRUCTURAL: SRA, INC.
SITE/CIVIL: KZF DESIGN
LANDSCAPE ARCHITECTURE: KINZELMAN KLINE

REVISIONS		
NO.	DATE	DESCRIPTION

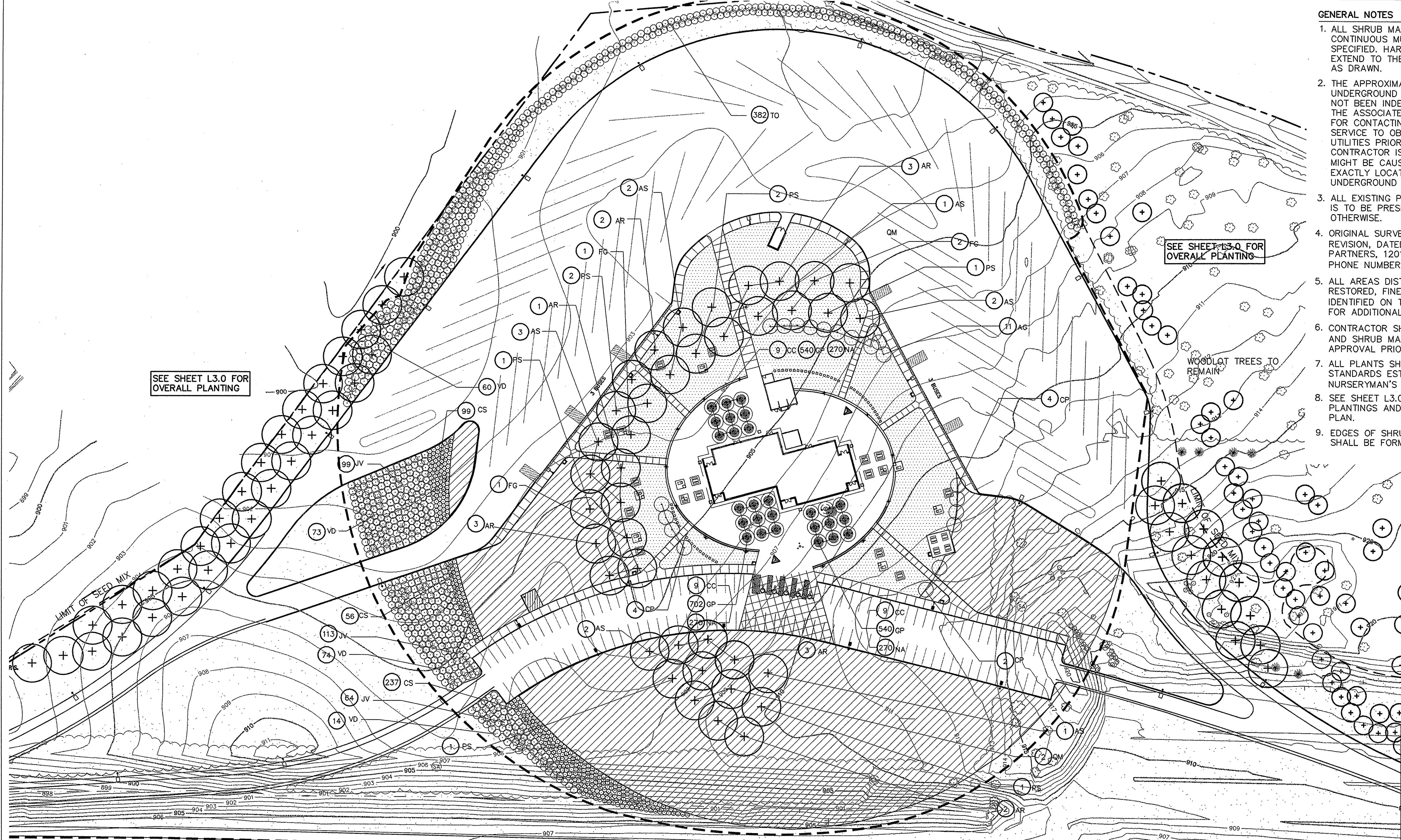


FOR:
OHIO DEPT. OF TRANSPORTATION
DRAWING DESCRIPTION: **(West Band)**
GRADING PLAN - NORTH SIDE
PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY:
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

CO SET PLOT DATE	DATE	L1.2
AUGUST, 2004	AUGUST, 2004	

BID/CONSTRUCTION SET



- GENERAL NOTES**
1. ALL SHRUB MASSES TO BE INCORPORATED IN CONTINUOUS MULCH BED TO LIMITS SHOWN AND AS SPECIFIED. HARDWOOD MULCH, ITEM 661; MULCH SHALL EXTEND TO THE OUTSIDE EDGES OF THE SHRUB MASSES AS DRAWN.
 2. THE APPROXIMATE LOCATIONS OF THE EXISTING UNDERGROUND UTILITIES ARE SHOWN. THESE HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ASSOCIATE. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE OHIO UTILITIES PROTECTION SERVICE TO OBTAIN THE EXACT LOCATION OF ALL UTILITIES PRIOR TO COMMENCING WORK. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES WHICH MIGHT BE CAUSED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
 3. ALL EXISTING PLANT MATERIAL SHOWN ON THIS PLAN IS TO BE PRESERVED UNLESS SPECIFICALLY NOTED OTHERWISE.
 4. ORIGINAL SURVEY, DATED 10/15/03, AND SUBSEQUENT REVISION, DATED 2/26/04 PREPARED BY WD PARTNERS, 1201 DUBLIN ROAD, COLUMBUS, OHIO 43215, PHONE NUMBER (614) 221-0840.
 5. ALL AREAS DISTURBED BY CONSTRUCTION ARE TO BE RESTORED, FINE GRADED AND SEEDED WITH MIX IDENTIFIED ON THE PLAN. SEE ENGINEER'S DRAWINGS FOR ADDITIONAL INFORMATION.
 6. CONTRACTOR SHALL STAKE LOCATIONS OF ALL TREES AND SHRUB MASSES AND OBTAIN THE ASSOCIATE'S APPROVAL PRIOR TO PLANTING.
 7. ALL PLANTS SHALL MEET THE SIZING AND GRADING STANDARDS ESTABLISHED BY THE AMERICAN NURSERYMAN'S ASSOCIATION.
 8. SEE SHEET L3.0 FOR INFORMATION ABOUT WOODLOT PLANTINGS AND SEEDING LIMITS NOT SHOWN ON THIS PLAN.
 9. EDGES OF SHRUB BEDS, TREE MASSES AND MEADOWS SHALL BE FORMED WITH CONTINUOUS, SMOOTH CURVE.
 10. IN THE EVENT OF A DISCREPANCY BETWEEN THE NUMBER OF PLANTS DRAWN AND THE NUMBER OF PLANTS LISTED, CONTRACTOR SHALL PROVIDE SUFFICIENT QUANTITY TO ACHIEVE THE PLAN AS DRAWN.

PLANT LIST (THIS SHEET)

QTY.	KEY	COMMON NAME	BOTANICAL NAME	SIZE	ROOT	REMARKS
22	AR	ARMSTRONG RED MAPLE	ACER RUBRUM 'ARMSTRONG'	2-2 1/2" cal.	B&B	
15	AS	SUGAR MAPLE	ACER SACCHARUM	2-2 1/2" cal.	B&B	
7	GF	AMERICAN BEECH	FAGUS GRANDIFOLIA	2-2 1/2" cal.	B&B	
9	PS	BLACK CHERRY	PRUNUS SEROTINA	2-2 1/2" cal.	B&B	
2	QM	BUR OAK	QUERCUS MACROCARPA	2-2 1/2" cal.	B&B	
11	AG	AUTUMN BRILLIANCE SERVICEBERRY	AMELANCHIER G. 'AUTUMN BRILLIANCE'	1-1 1/2" cal.	B&B	
27	CC	EASTERN REDBUD	CERCIS CANADENSIS	6' HGT.	B&B	MULTI-STEM
10	CP	OHIO PIONEER HAWTHORN	CRATAEGUS P. 'OHIO PIONEER'	1-1 1/2" cal.	B&B	
276	JV	EASTERN REDCEDAR	JUNIPERUS VIRGINIANA	4-5' HGT.	B&B	6' O.C.
382	TO	DARK GREEN ARBORVITAE	THUJA OCCIDENTALIS 'NIGRA'	6-7' HGT.	B&B	6' O.C.
392	CS	REDOSIER DOGWOOD	CORNUS STOLONIFERA	18" HGT.	Cont.	5' O.C.
221	VD	ARROWWOOD VIBURNUM	VIBURNUM DENTATUM	36" HGT.	B&B	7' O.C.
1620	GP	CREeping WINTERBERRY	GAULTHERIA PROCUMBENS	2 YEAR	POT	12" O.C.
810	NA	TRIPARTITE JONQUIL	NARCISSUS SP. 'TRIPARTITE'	2 YEAR BULB	Bulb	Space Evenly

ROUTE 70 - EDGE OF PAVEMENT, SEE SHEET L3.0.

PLANTING LEGEND

- EXISTING TREE TO REMAIN
- PROVIDE 540-GP AND 30-NA IN ADDITION TO THE TREE IN EACH PLANTER. (TOTAL OF 27 PLANTERS ON THIS SHEET)
- NATIVE MEADOW SEED MIX
- MANICURED LAWN
- LOW MAINTENANCE TALL TURF MIX

CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL & STRUCTURAL:
SRA, INC.
SITEWORK:
KZF DESIGN
LANDSCAPE ARCHITECTURE:
KINZELMAN KLINE

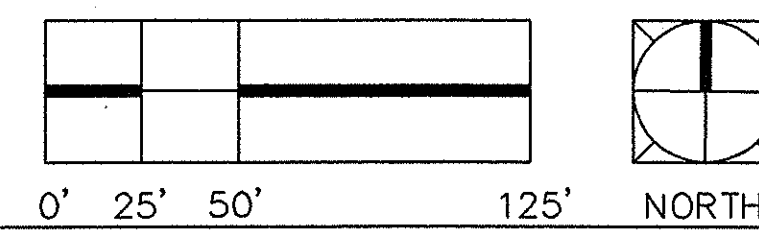
REVISIONS

NO.	DATE	DESCRIPTION

FOR:
OHIO DEPT. OF TRANSPORTATION
DRAWING DESCRIPTION: (WEST BOW) PLANTING PLAN - NORTH SIDE
PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

CO SET PLOT DATE: **AUGUST, 2004** DATE: **AUGUST, 2004** L1.3



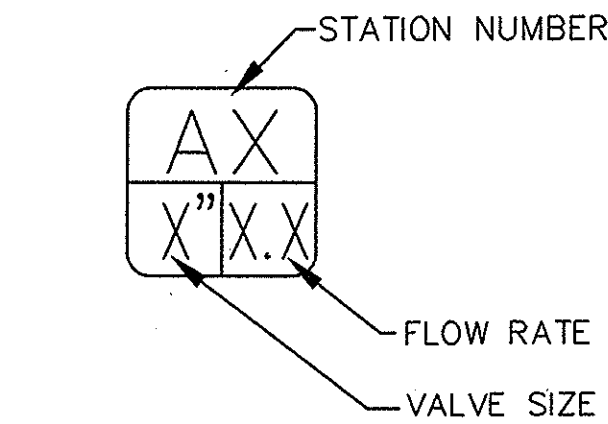
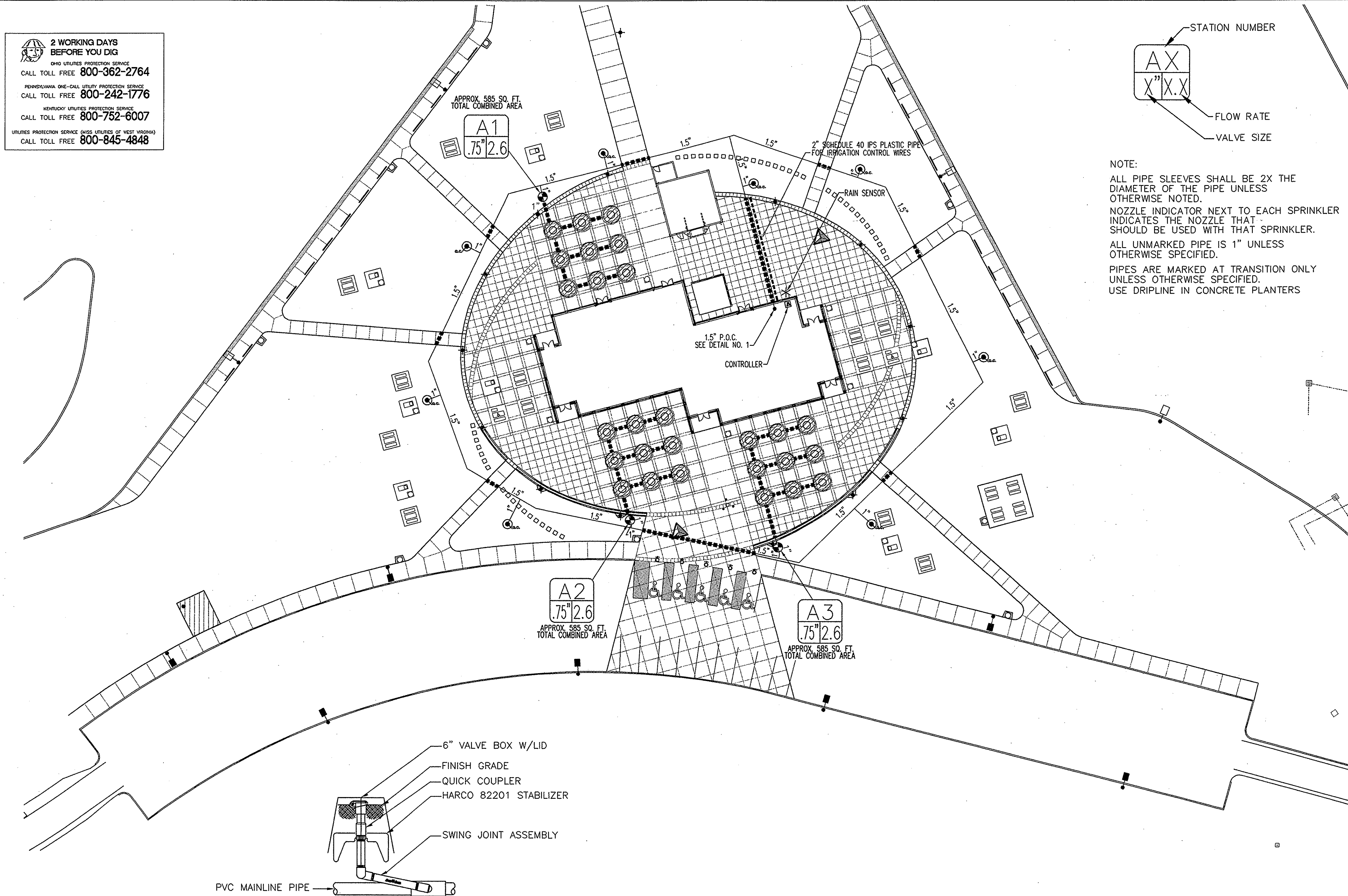
2 WORKING DAYS
BEFORE YOU DIG

OHIO UTILITIES PROTECTION SERVICE
CALL TOLL FREE 800-362-2764

PENNSYLVANIA ONE-CALL UTILITY PROTECTION SERVICE
CALL TOLL FREE 800-242-1776

KENTUCKY UTILITIES PROTECTION SERVICE
CALL TOLL FREE 800-752-6007

UTILITIES PROTECTION SERVICE (MID-UTILITIES OF WEST VIRGINIA)
CALL TOLL FREE 800-845-4848



NOTE:
ALL PIPE SLEEVES SHALL BE 2X THE DIAMETER OF THE PIPE UNLESS OTHERWISE NOTED.
NOZZLE INDICATOR NEXT TO EACH SPRINKLER INDICATES THE NOZZLE THAT SHOULD BE USED WITH THAT SPRINKLER.
ALL UNMARKED PIPE IS 1" UNLESS OTHERWISE SPECIFIED.
PIPES ARE MARKED AT TRANSITION ONLY UNLESS OTHERWISE SPECIFIED.
USE DRIPLINE IN CONCRETE PLANTERS

IRRIGATION PIPE TABLE	
Symbol	Pipe
	200 PSI SDR 21 PVC LATERAL PIPE (Sized Per Plan)
	200 PSI SDR 21 PVC MAINLINE PIPE (Sized Per Plan))
	PVC SCHEDULE 40 IPS PLASTIC PIPE FOR SLEEVES

IRRIGATION EQUIPMENT TABLE	
Symbol	Equipment
	RAIN BIRD ESP-6LX+ CONTROLLER
	RAIN BIRD DRIP ZONE CONTROL KIT XCZ075BFF
	RAIN BIRD WRS RAIN SENSOR
	RAIN BIRD 5RC QUICK COUPLER
	RAINBIRD DRIPLINE LD0618

GENERAL NOTES:
THIS SYSTEM IS DIAGRAMMATIC BASED UPON INFORMATION PROVIDED BY THE OWNER OR THE OWNER'S REPRESENTATIVE. THE SUCCESSFUL CONTRACTOR IS RESPONSIBLE TO LAYOUT SYSTEM EXTERIOR AND INTERIOR COMPONENT LOCATIONS FOR APPROVAL PRIOR TO INSTALLATION & TO INSTALL A SYSTEM THAT WILL PROPERLY COVER ALL AREAS INDICATED ON THE DESIGN. ANY DISCREPANCIES OR CHANGES (I.E. P.O.C SIZE, LAWN OR PLANT AREAS, STATIC PRESSURE, ETC.) SHOULD BE POINTED OUT TO THE OWNER OR THE OWNER'S REPRESENTATIVE AND CHANGES MADE WITH APPROVAL.

THIS SYSTEM SHALL BE INSTALLED USING ACCEPTED AND QUALITY INSTALLATION STANDARDS AS USED IN THE INDUSTRY. ALL MANUFACTURERS SPECIFICATIONS WILL BE FOLLOWED.

MAINLINE PIPING SHALL BE BURIED A MINIMUM OF 12" OF COVER AND A MAXIMUM OF 18" OF COVER. LATERAL LINE PIPING A MINIMUM OF 12" OF COVER. ALL BACKFILL SURROUNDING THE PIPE SHALL BE SCREENED AND CLEANED OF MATERIAL LARGER THAN 1" IN SIZE. BACKFILL SHALL BE ADDED IN 6" INCREMENTS AND MECHANICALLY TAMPED.

SYSTEM DESIGN IS BASED ON PRESSURE AND FLOW INFORMATION PROVIDED BY OTHERS. STATIC PRESSURE WAS GIVEN AS UNKNOWN PSI AND THE SIZE OF THE P.O.C. IS AS INDICATED ON DRAWING. IF NO STATIC PRESSURE WAS GIVEN, THE DESIGNER ASSUMES A MINIMUM OF 60 PSI. IF A BOOSTER PUMP IS REQUIRED DUE TO LOW PRESSURE, BUT NOT CALLED FOR IN THE PLAN, IT SHALL BE SIZED AND BID AS A CHANGE ORDER.

UNMARKED MAINLINE AND LATERAL PIPING SHALL BE 1" CL-200 PVC PIPE UNLESS OTHERWISE NOTED.

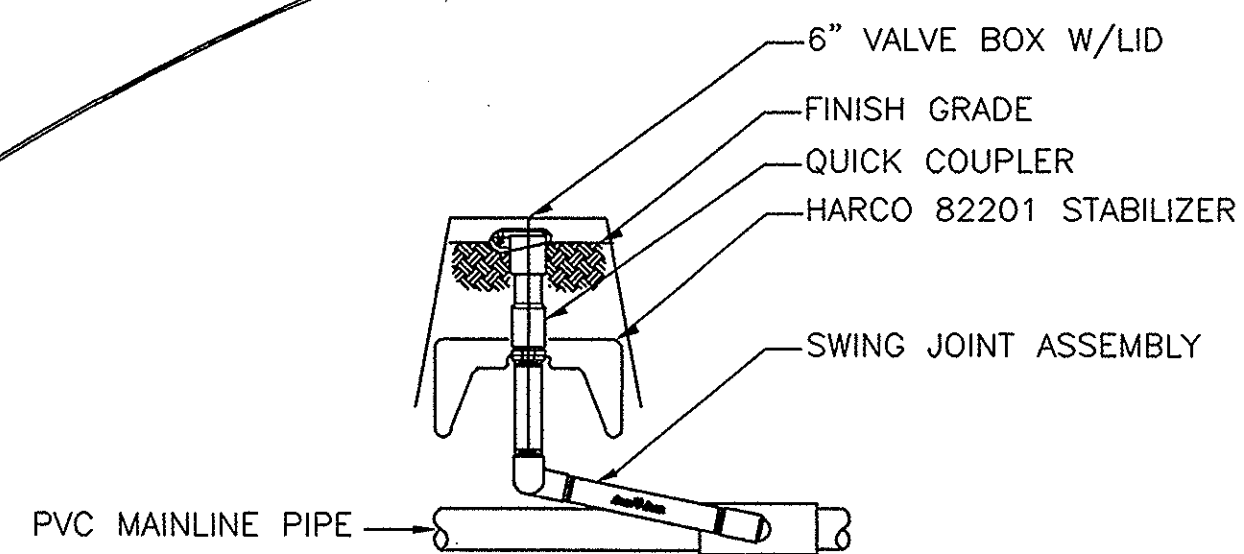
PIPE SHOWN IN PAVED AREA WITHOUT SLEEVE IS DIAGRAMMATICAL AND SHALL BE LOCATED INSIDE OF PLANTED AREA APPROXIMATELY 1' FROM HARDSCAPE.

ALL VALVES SHALL BE IN AMETEK VALVE BOXES OR APPROVED EQUAL. ALL ELECTRICAL CONNECTIONS AND SPLICES SHALL BE SEALED WITH WATERPROOF CONNECTIONS.

IRRIGATION PRODUCTS (IE: SPRINKLERS, VALVES, CONTROLLERS) SHALL BE AS LISTED IN THE LEGEND OR APPROVED EQUAL BY TORO OR HUNTER. THE INSTALLED SYSTEM SHALL BE COMPRISED OF PRODUCT BY A SINGLE MANUFACTURER AND SHALL BE SUPPLIED BY AN AUTHORIZED DISTRIBUTOR TO PROVIDE SINGLE SOURCE RESPONSIBILITY FOR WARRANTY SERVICE AND SUPPORT AND TO ASSURE COMPATIBILITY IN ALL RESPECTS. NO SUBSTITUTIONS ARE ALLOWED WITHOUT FIRST SUBMITTING SUBSTITUTE PRODUCT TO THE ASSOCIATE AND RECEIVING WRITTEN APPROVAL. SUBSTITUTE PRODUCTS MUST BE EQUAL IN PERFORMANCE AND CONSTRUCTION AND SHOW A COST SAVINGS TO THE OWNER. UNAPPROVED PRODUCT SHALL BE REMOVED AT NO COST TO THE ASSOCIATE.

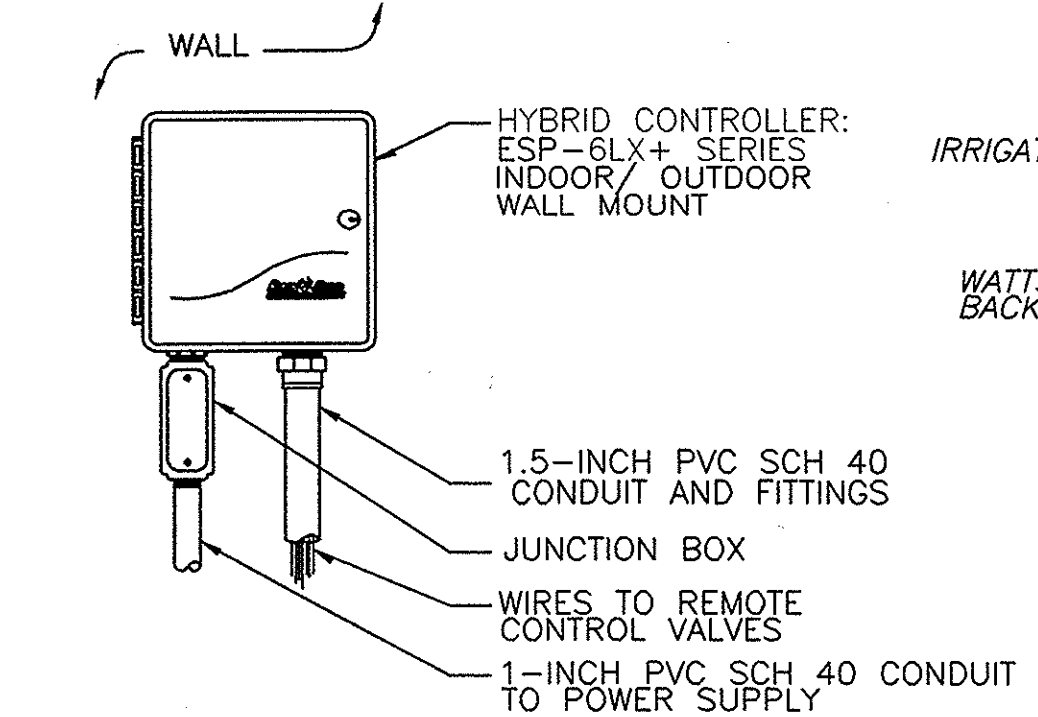
CONTROL WIRE WILL BE SOLID COPPER WIRE U.L. APPROVED FOR DIRECT BURIAL IN GROUND. MINIMUM GAUGE #18 U.F. (MULTI-STRAND) OR #14 GAUGE SINGLE STRAND FOR DISTANCES OVER 1000'. COMMON WIRE SHALL BE WHITE. USE SEPARATE COMMON WIRE FOR EACH IRRIGATION CONTROLLER.

FINAL LOCATION OF RAIN SENSOR AND EXACT CONTROLLER LOCATION AS DIRECTED BY THE ASSOCIATE.

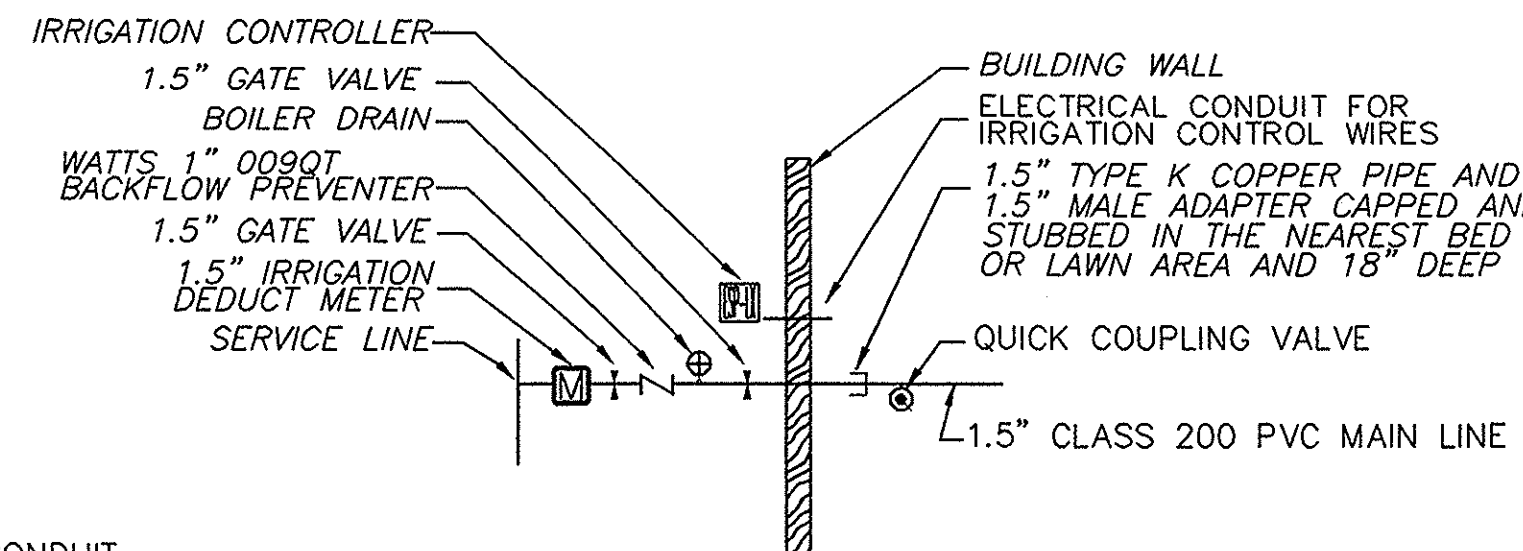


NOTE:
ADJUST ANGLE OF SWING JOINT LAY ARM PER MANUFACTURER'S RECOMMENDATIONS TO ALLOW ADEQUATE IMPACT ABSORPTION

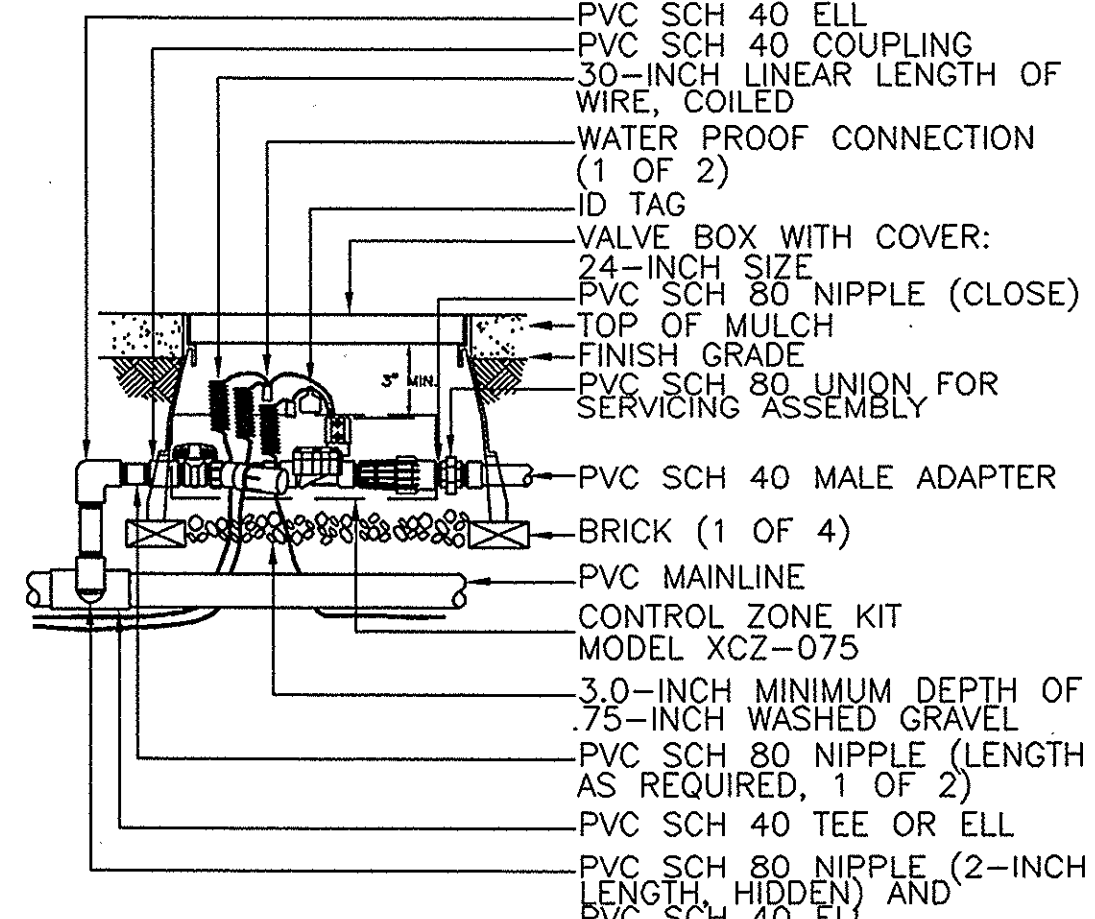
1" QUICK COUPLING VALVE



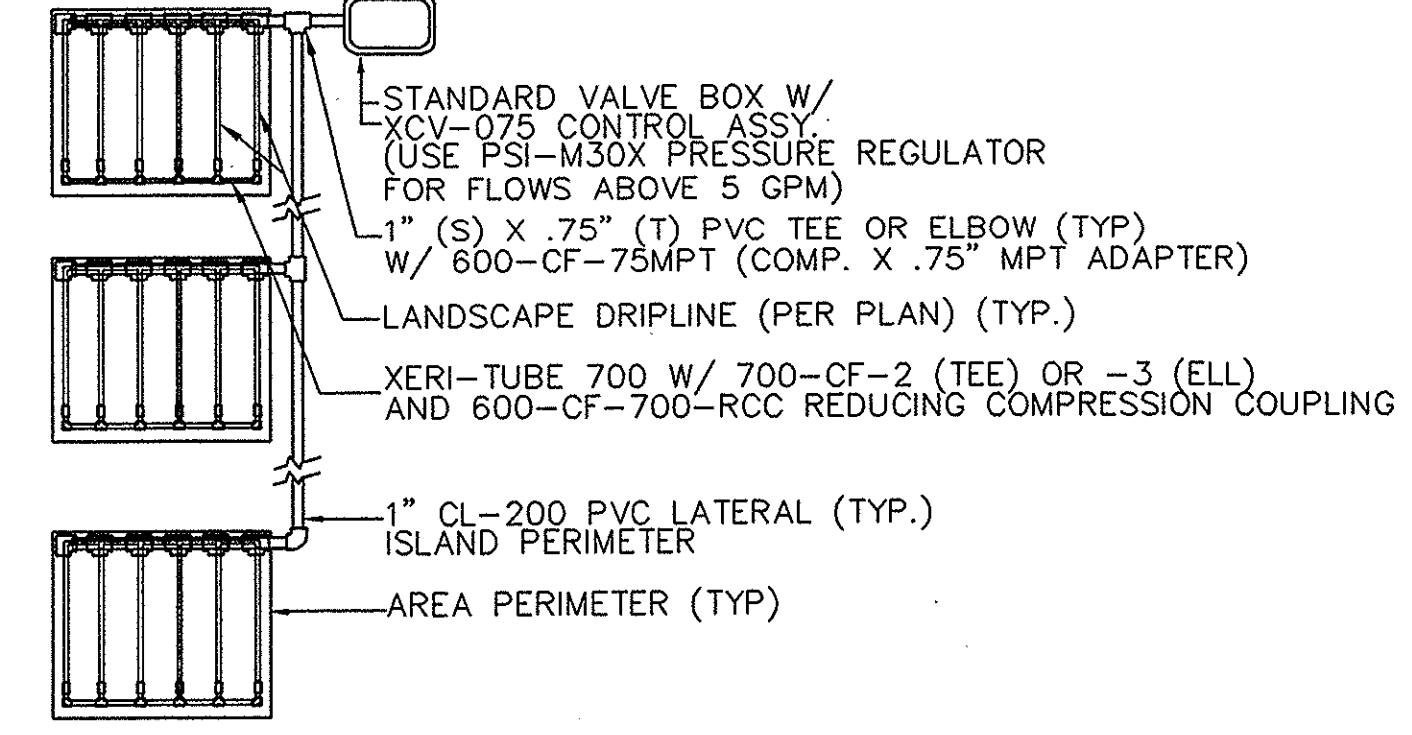
ESP-6LX+ CONTROLLER



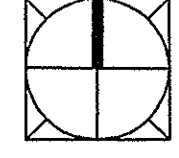
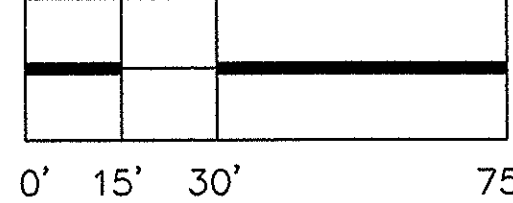
1.5" POINT OF CONNECTION



DRIP VALVE ASSY. < 5 GPM



LANDSCAPE DRIPLINE MULTIPLE AREA LAYOUT



CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL & STRUCTURAL
SRA, INC.
SITE/CIVIL
KZF DESIGN
LANDSCAPE ARCHITECTURE
KINZELMAN KLINE

REVISIONS	
NO.	DATE DESCRIPTION

FOR:
OHIO DEPT. OF TRANSPORTATION

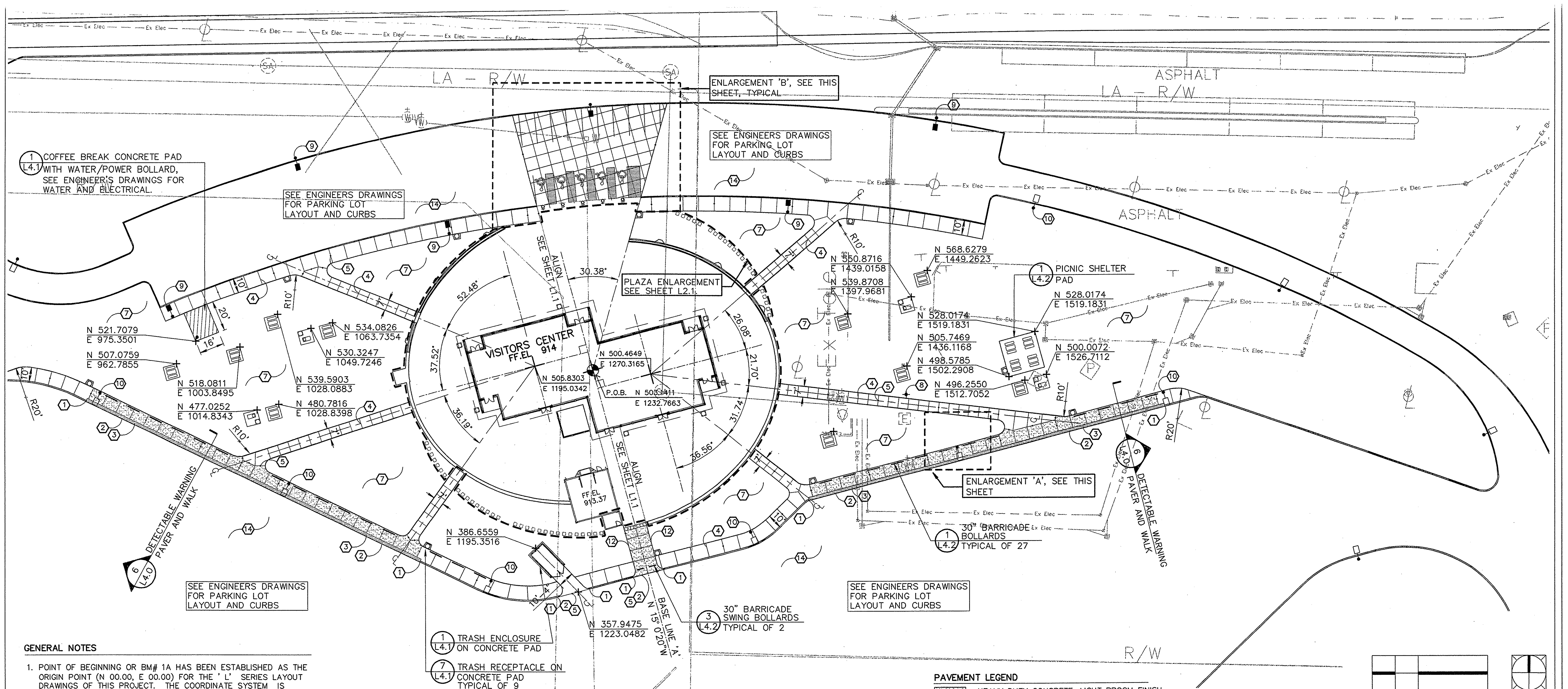
DRAWING DESCRIPTION: **(West Bound)**
IRRIGATION PLAN - NORTH SIDE

PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

CO-SET PLOT DATE	DATE	
AUGUST, 2004	AUGUST, 2004	L1.4

Project: 2003-03-10959-Licking County Rest Area (CD) - 1.4-Irrigation, L-1.4-Irrigation, 7/13/2004 8:42:24 AM



GENERAL NOTES

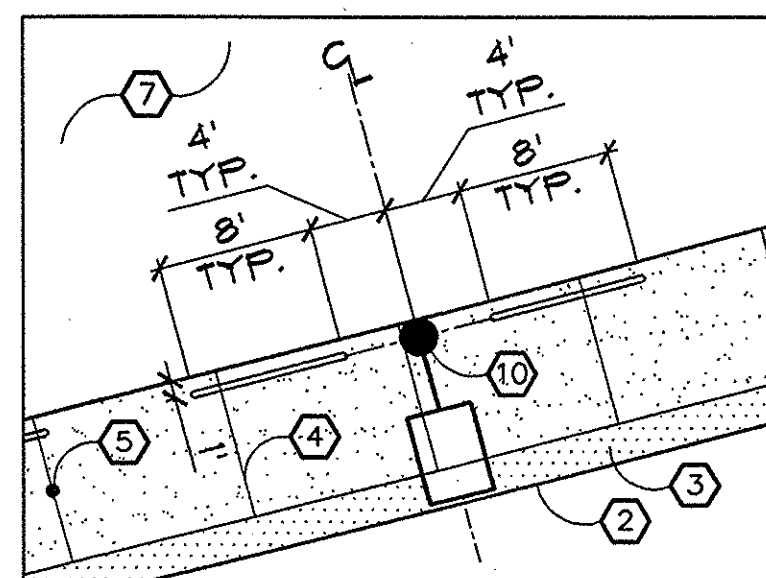
- POINT OF BEGINNING OR BM# 1A HAS BEEN ESTABLISHED AS THE ORIGIN POINT (N 00.00, E 00.00) FOR THE 'L' SERIES LAYOUT DRAWINGS OF THIS PROJECT. THE COORDINATE SYSTEM IS APPLICABLE TO ONLY THE ABOVE REFERENCED DRAWINGS, SEE SHEET L0.0 FOR BENCHMARK AND SURVEY INFORMATION.
- ALL DIMENSIONS USING CURBS, BUILDING WALLS OR PAVEMENT AS A REFERENCE ARE FROM FACE OF CURB, FINISHED FACE OF BUILDING, FINISHED FACE OF WALL OR EDGE OF PAVEMENT, UNLESS NOTED OTHERWISE.
- EACH CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES.
- EACH CONTRACTOR SHALL NOTIFY THE ASSOCIATE IMMEDIATELY IF A DISCREPANCY IS FOUND BETWEEN THE DIMENSION GIVEN AND ACTUAL DIMENSIONS IN THE FIELD.
- ALL WALKWAY RADII DIMENSIONS ARE 5'-0", UNLESS NOTED OTHERWISE.
- ALL LAYOUT TO BE BY A REGISTERED SURVEYOR OR ENGINEER. THE ASSOCIATE WILL REVIEW THE LAYOUT FOR GENERAL CONFORMANCE PRIOR TO CONSTRUCTION.
- ORIGINAL SURVEY, DATED 10/15/03, AND SUBSEQUENT REVISION, DATED 2/26/04 PREPARED BY WD PARTNERS, 1201 DUBLIN ROAD, COLUMBUS, OHIO 43215, PHONE NUMBER (614) 221-0840.
- EXTERIOR PAVEMENT ELEVATIONS AT ALL ENTRANCES TO BUILDING ARE TO BE FLUSH WITH THE FINISHED FLOOR ELEVATION IN THE BUILDING.
- CONTRACTOR SHALL PROVIDE TEMPORARY BARRIERS AT LIMITS OF CONSTRUCTION TO ASSURE PUBLIC SAFETY DURING CONSTRUCTION.
- SEE SITE SURVEY FOR BENCHMARK INFORMATION, SHEET L0.0.
- FOR LIGHTING QUANTITIES, SEE SHEET L0.2, FOR INSTALLATION, AND ELECTRICAL INFORMATION, SEE ENGINEER'S DRAWINGS.
- SCORE LINES ARE BASED ON DOOR CENTERLINES AND WINDOW MULLIONS, REFER TO ARCHITECTURAL DRAWINGS, AND SHEET L2.1.
- PICNIC TABLE PAD, GRILL TABLE PAD, AND PICNIC SHELTER PAD ARE ORTHOGONAL TO BASELINE 'A'.
- ALL CONCRETE PAVEMENT TO BE LIGHT BROOM FINISH UNLESS NOTED OTHERWISE.

CONSTRUCTION NOTES

- TRANSITION CONCRETE CURB AND WALK FROM 6" HGT. TO FLUSH WITH PAVEMENT WITHIN 6'-6".
- PAVEMENTS TO MEET FLUSH.
- DETECTABLE WARNING PAVERS, SEE SHEET L4.0, DETAIL 6.
- TYPICAL CONTROL JOINT
- TYPICAL EXPANSION JOINT
- PROVIDE AND INSTALL HANDICAP PARKING SIGNS, TYPICAL OF 5, THIS SHEET. IDENTIFY 1 VAN ACCESSIBLE SPACE WITH APPROPRIATE SIGNAGE, LOCATE SIGN BEHIND CENTERLINE OF CONCRETE BOLLARD, 18" (VISITORS CENTER SIDE) SEE SHEET L4.0, DETAIL 7.
- LAWN AREA, FILL WITH TOPSOIL, MINIMUM DEPTH SHALL BE 6" MEET ADJACENT SURFACES FLUSH. PROVIDE POSITIVE DRAINAGE ACROSS ALL SURFACES.
- 14' HIGH, 175 WATT PEDESTRIAN SCALE LIGHT POLE, SEE SHEET C4.16. CENTER POLES ON PADS OR BANDS AS APPROPRIATE.
- 20' HIGH, 400 WATT PARKING LOT LIGHT, SEE SHEET C4.16 FOR ADDITIONAL LIGHTING INFO.
- 40' HIGH, 750 WATT TRUCK/BUS PARKING LOT LIGHT, SEE ENLARGEMENT 'A', THIS SHEET FOR LAYOUT, SEE SHEET C4.16 FOR ADDITIONAL LIGHTING INFO.
- ALIGN CORNER OF TRASH RECEPTACLE AT CORNER OF PAVEMENT EDGES.
- ALIGNMENT CONTINUATION OF PLAZA SCORING SEE LAYOUT SHEET L1.1.
- HANDICAP AISLES TO RECEIVE MEDIUM BROOM FINISH AND CONCRETE STAIN & SEALER, SEE SPECS.
- SEE ENGINEER'S PLAN FOR STRIPING LOCATIONS.
- HANDICAP SYMBOLS AND PAVEMENT MARKINGS TO RECEIVE CONCRETE STAIN AND SEALER, SEE SPECS.

SYMBOL LEGEND

- TRASH RECEPTACLE
- GRILL TABLE PAD, SEE SHEET L4.1, DETAIL 6.
- PICNIC TABLE PAD, SEE SHEET L4.1, DETAIL 4.
- 8' WIDE BARRICADE BOLLARD, SEE SHEET L4.2, DETAIL 1.
- 14' HIGH, 175 WATT PEDESTRIAN SCALE LIGHT POLE
- 20' HIGH, 400 WATT PARKING LOT LIGHT
- 40' HIGH, 750 WATT TRUCK/BUS PARKING LOT LIGHT
- HANDICAP PARKING SIGN
- EXPANSION JOINT

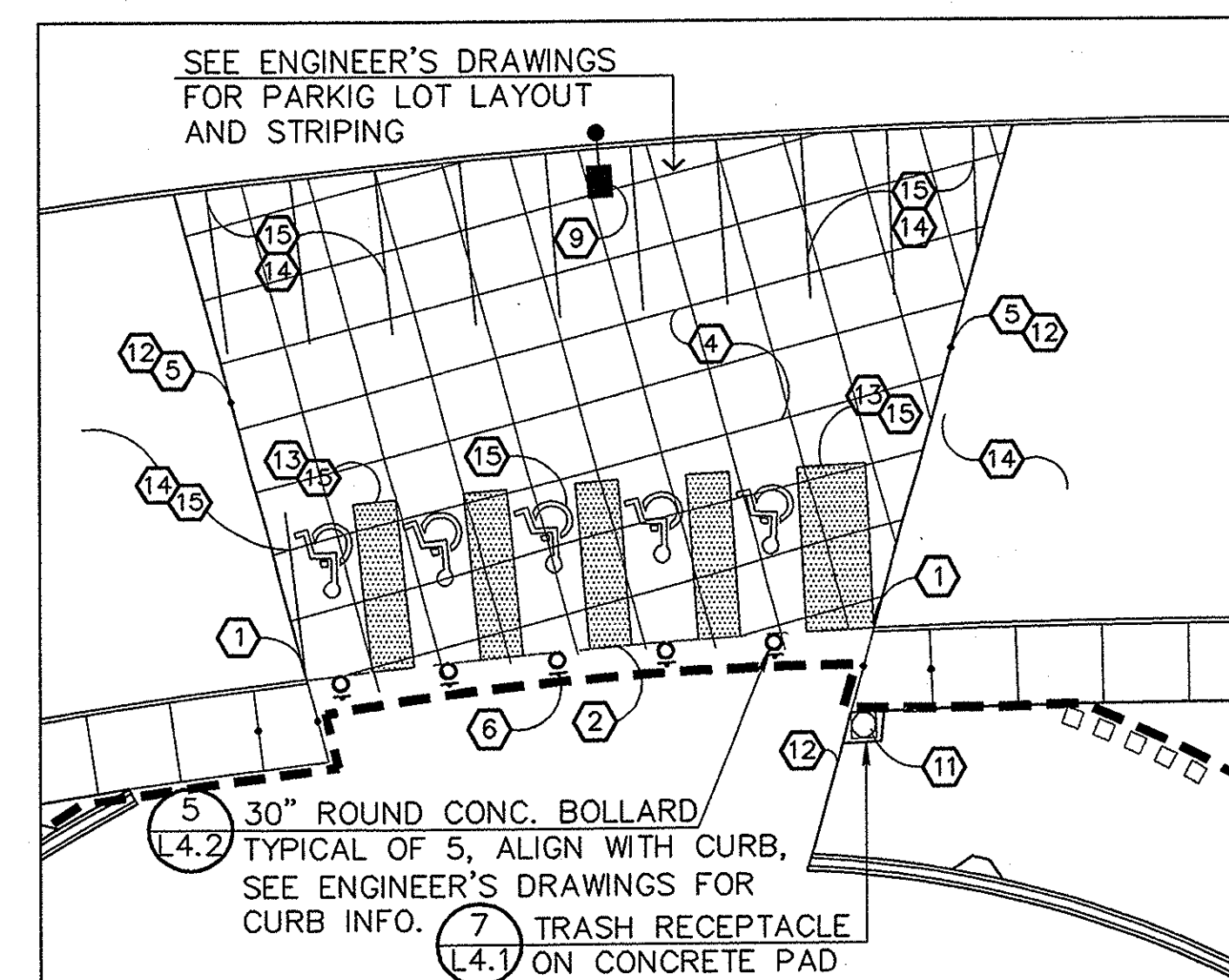


ENLARGEMENT 'A'

SCALE: NOT TO SCALE

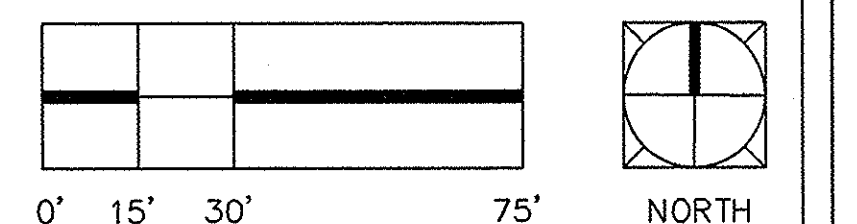
PAVEMENT LEGEND

- HEAVY DUTY CONCRETE, LIGHT BROOM FINISH, PAVEMENT, SEE SHEET L4.0, DETAIL 2.
- LIGHT BROOM FINISH CONCRETE SIDEWALKS, SEE SHEET L4.0, DETAIL 1.



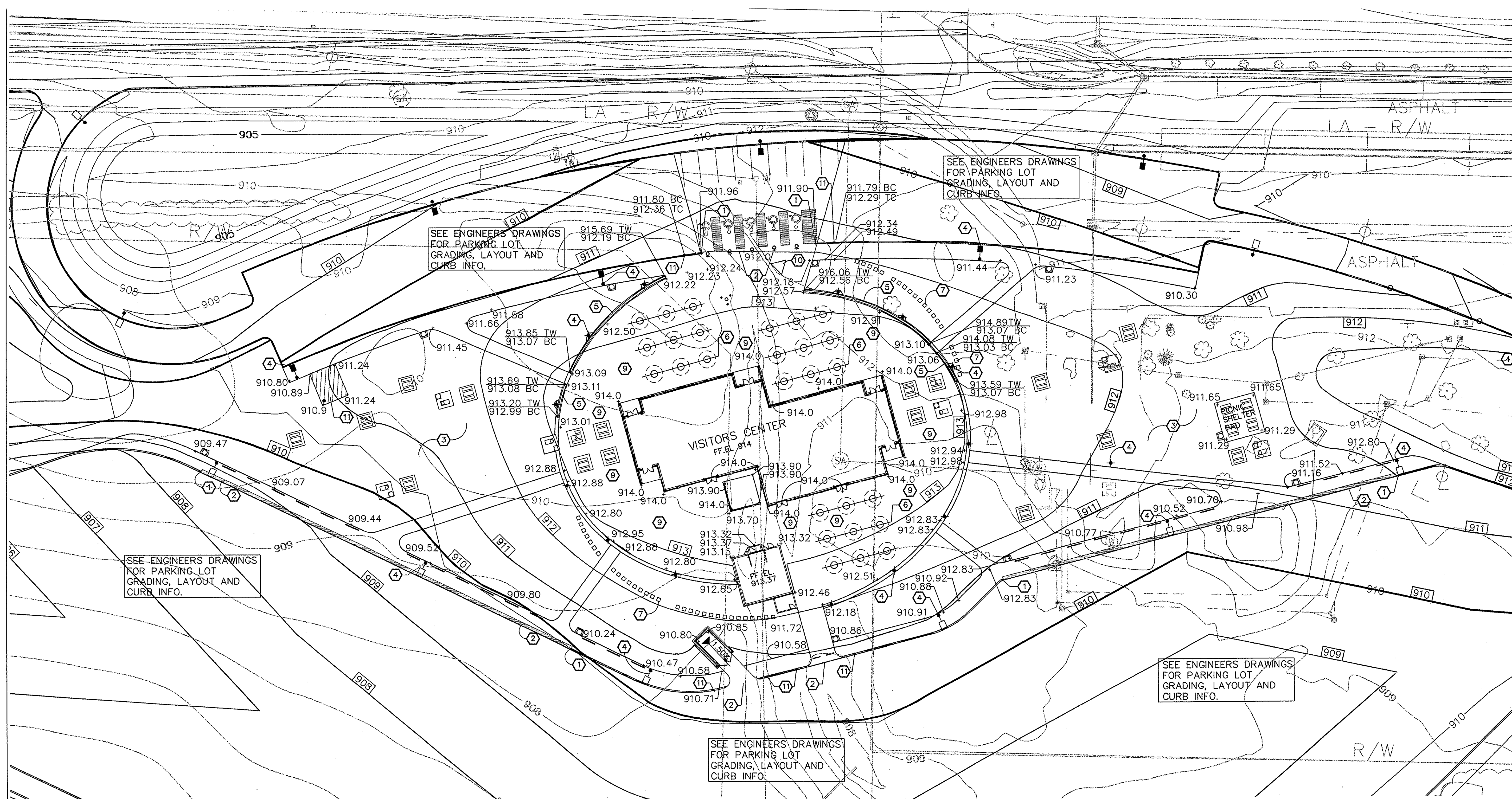
ENLARGEMENT 'B'

SCALE: NOT TO SCALE



CONSULTING ARCHITECTS & ENGINEERS ARCHITECT: OFFICE OF THE STATE ARCHITECT MECHANICAL, ELECTRICAL & STRUCTURAL: SRA, INC. SITE/CIVIL: KZF DESIGN LANDSCAPE ARCHITECTURE: KINZELMAN KLINE																																			
REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>			NO.	DATE	DESCRIPTION																														
NO.	DATE	DESCRIPTION																																	
FOR: OHIO DEPT. OF TRANSPORTATION DRAWING DESCRIPTION: (East Bound) LAYOUT PLAN - SOUTH SIDE PROJECT NO. 770-2003-074 I-70 / LICKING COUNTY REST AREA																																			
STATE OF OHIO DEPARTMENT OF ADMINISTRATIVE SERVICES GENERAL SERVICES DIVISION PREPARED BY: GENERAL SERVICES DIVISION OFFICE OF THE STATE ARCHITECT CO. ART. PLAT. DATE: AUGUST, 2004 DATE: AUGUST, 2004 L2.0																																			

BID/CONSTRUCTION SET



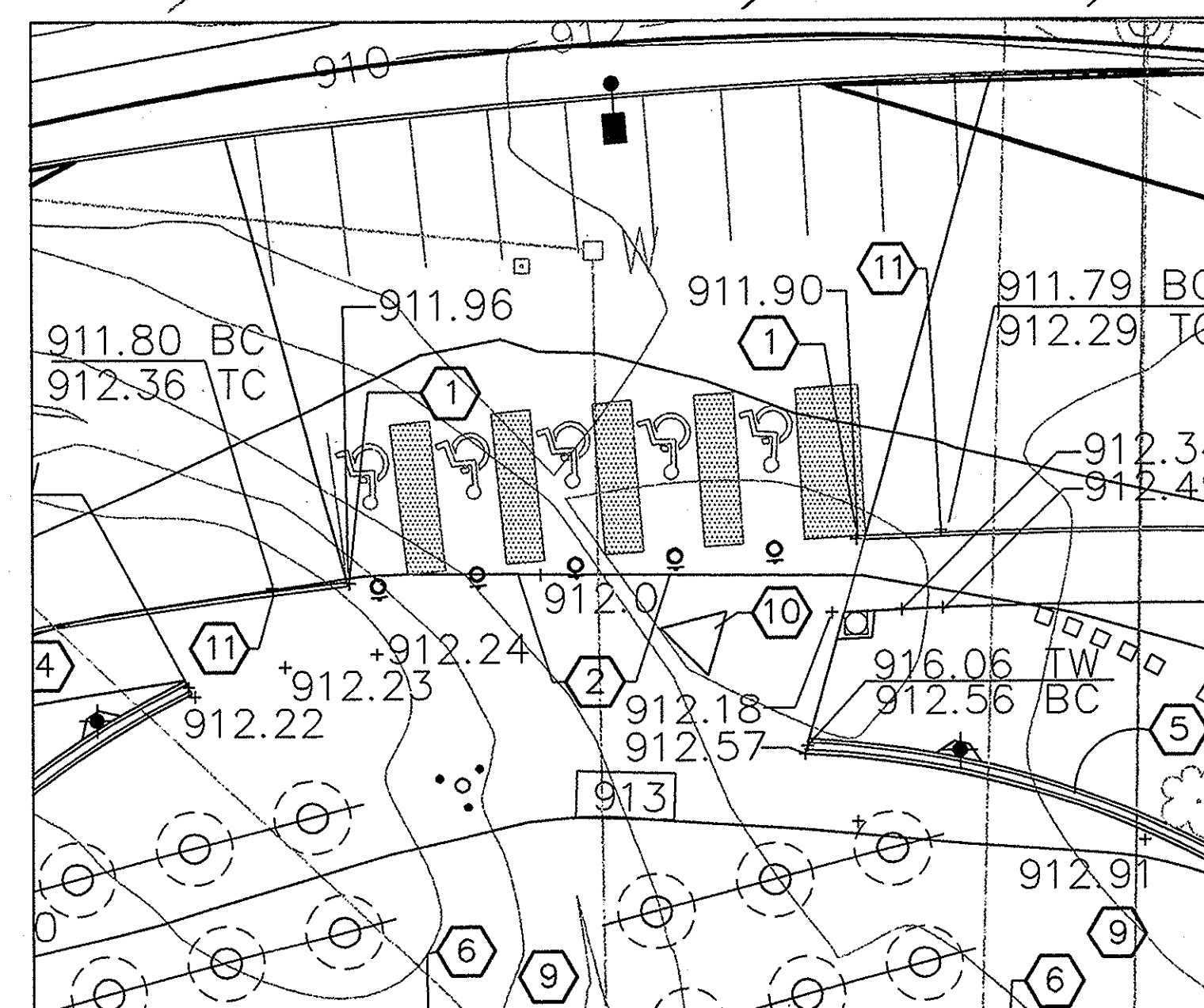
- LEGEND**
- X 905.0 EXISTING SPOT GRADE
 - + 905.0 PROPOSED SPOT GRADE
 - 905 — EXISTING CONTOUR
 - 905 - PROPOSED CONTOUR
 - - - UNDERDRAIN
 - BC BOTTOM OF CURB
 - TC TOP OF CURB
 - TW TOP OF WALL
 - BW BOTTOM OF WALL
 - [Symbol] PICNIC TABLE PAD
 - [Symbol] GRILL TABLE PAD WITH TRASH RECEPTACLE
 - [Symbol] TRASH RECEPTACLE
 - [Symbol] 8' WIDE BARRICADE BOLLARD
 - [Symbol] 30" CONCRETE BOLLARD

GENERAL NOTES

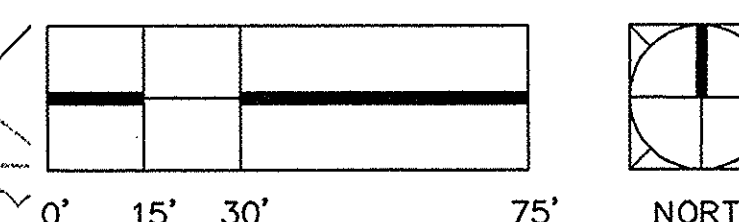
- THE LOCATIONS OF THE EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ASSOCIATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- WORK SHOWN IS BASED ON AN ORIGINAL SURVEY DATED 10/15/03 AND SUBSEQUENT REVISION, DATED 2/26/04 PREPARED BY WD PARTNERS, 1201 DUBLIN ROAD, COLUMBUS 43215 PHONE NUMBER (614) 224-0840.
- INSURE POSITIVE DRAINAGE ACROSS ALL FINISHED GRADED SURFACES.
- SUBSURFACE EXPLORATIONS AND FOUNDATION RECOMMENDATIONS HAVE BEEN MADE BY BBC & M ENGINEERING, INC., 6190 ENTERPRISE 6190 COURT, DUBLIN, OH. REPORT CONTAINING DATA FROM SUBSURFACE EXPLORATIONS. DATED MARHC 1, 2004. WILL BE MADE AVAILABLE.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING INLET PROTECTION FOR ALL DRAIN INLETS WITHIN THE LIMITS OF GRADING.
- ALL AREAS DISTURBED BY GRADING OPERATIONS OUTSIDE BUILDING OUTSIDE BUILDING AND PAVEMENT AREAS ARE TO BE FINE GRADED AND SEEDED. SEE LANDSCAPE PLANS L1.2, L1.3, L2.3 AND AS SHOWN ON THE ENGINEER'S GRADING & ROADWAY SECTION DRAWINGS.
- SEE SITE SURVEY ON EXISTING CONDITIONS SHEET L0.3 FOR EXISTING GRADE CONDITIONS AND BENCH MARK INFORMATION.
- ALL SURFACES MUST DRAIN

CONSTRUCTION NOTES

- CURB AND WALK TRANSITION FROM FULL CURB HGT. TO A FLUSH CONDITION WITH ADJACENT PAVEMENT. 6.5' MIN. RAMPING LENGTH FOR 6" CURB AND 11' MIN. RAMPING LENGTH FOR 10" CURB UNLESS OTHERWISE NOTED.
- PAVEMENTS TO MEET FLUSH
- LAWN/PLANT BED AREA
- PROPOSED LIGHT, TYP. SEE ENGINEERS DRAWINGS FOR LIGHTING.
- PROPOSED SEAT WALL, SEE SHEET L4.3, DETAILS 1 & 2.
- CONCRETE PLANTERS, TOP OF PLANTER ELEVATIONS TO BE CONSTANT AND LEVEL ACROSS EACH ROW.
- CONCRETE STEPPING STONE, FLUSH WITH GRADE, SEE SHEET L4.0, DETAIL 5.
- INFORMATION KIOSK
- PLAZA SURFACE TO BE OF A CONSTANT SLOPE BETWEEN SPOT ELEVATIONS SHOWN AWAY FROM BUILDING IN ALL DIRECTIONS, UNLESS OTHERWISE INDICATED.
- COFFEE BREAK PAD WITH SECURE POWER/WATER BOLLARD
- FULL HEIGHT CURB TO FLUSH GRADE TRANSITION START



FLUSH GRADE TRANSITION ENLARGEMENT
NTS

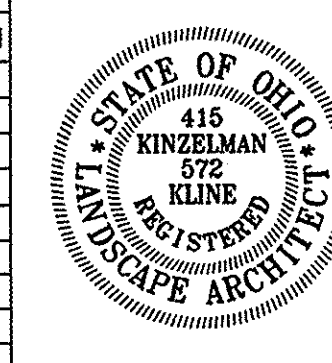


CONSULTING ARCHITECTS & ENGINEERS

ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL & STRUCTURAL
SRA, INC.
SITE/CIVIL
KZF DESIGN
LANDSCAPE ARCHITECTURE
KINZELMAN KLINE

REVISIONS

NO.	DATE	DESCRIPTION



FOR:
OHIO DEPT. OF TRANSPORTATION

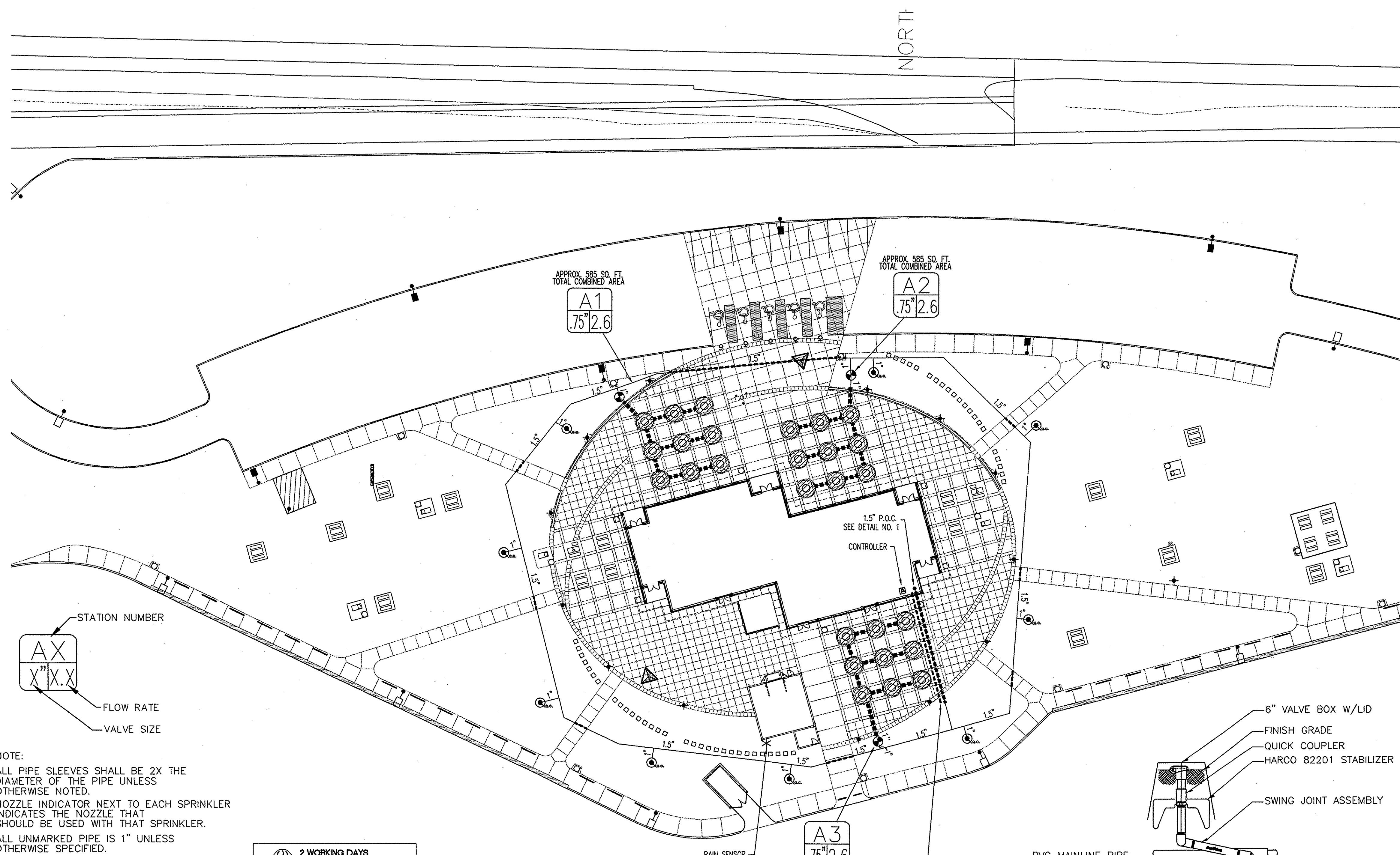
DRAWING DESCRIPTION: **(EAST BOUND)**
GRADING PLAN - SOUTH SIDE

PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

CO KEY PLAN DATE	DATE	L2.2
AUGUST, 2004	AUGUST, 2004	

BID/CONSTRUCTION SET



Irrigation Pipe Table	
Symbol	Pipe
---	200 PSI SDR 21 PVC LATERAL PIPE (Sized Per Plan)
---	200 PSI SDR 21 PVC MAINLINE PIPE (Sized Per Plan)
■ ■ ■ ■ ■	PVC SCHEDULE 40 IPS PLASTIC PIPE FOR SLEEVES

Irrigation Equipment Table	
Symbol	Equipment
⊠	RAIN BIRD ESP-6LX+ CONTROLLER
⊙	RAIN BIRD DRIP ZONE CONTROL KIT XCZ075BFF
*	RAIN BIRD WRS RAIN SENSOR
⊗	RAIN BIRD 5RC QUICK COUPLER
▨	RAINBIRD DRIPLINE LD0618

GENERAL NOTES:

THIS SYSTEM IS DIAGRAMMATIC BASED UPON INFORMATION PROVIDED BY THE OWNER OR THE OWNER'S REPRESENTATIVE. THE SUCCESSFUL CONTRACTOR IS RESPONSIBLE TO LAYOUT SYSTEM EXTERIOR AND INTERIOR COMPONENT LOCATIONS FOR APPROVAL PRIOR TO INSTALLATION & TO INSTALL A SYSTEM THAT WILL PROPERLY COVER ALL AREAS INDICATED ON THE DESIGN. ANY DISCREPANCIES OR CHANGES (I.E. POC SIZE, LAWN OR PLANT AREAS, STATIC PRESSURE, ETC.) SHOULD BE POINTED OUT TO THE OWNER OR THE OWNER'S REPRESENTATIVE AND CHANGES MADE WITH APPROVAL.

THIS SYSTEM SHALL BE INSTALLED USING ACCEPTED AND QUALITY INSTALLATION STANDARDS AS USED IN THE INDUSTRY. ALL MANUFACTURERS SPECIFICATIONS WILL BE FOLLOWED.

MAINLINE PIPING SHALL BE BURIED A MINIMUM OF 12" OF COVER AND A MAXIMUM OF 18" OF COVER. LATERAL LINE PIPING A MINIMUM OF 12" OF COVER. ALL BACKFILL SURROUNDING THE PIPE SHALL BE SCREENED AND CLEANED OF MATERIAL LARGER THAN 1" IN SIZE. BACKFILL SHALL BE ADDED IN 6" INCREMENTS AND MECHANICALLY TAMPED.

SYSTEM DESIGN IS BASED ON PRESSURE AND FLOW INFORMATION PROVIDED BY OTHERS. STATIC PRESSURE WAS GIVEN AS UNKNOWN PSI AND THE SIZE OF THE P.O.C. IS AS INDICATED ON DRAWING. IF NO STATIC PRESSURE WAS GIVEN, THE DESIGNER ASSUMES A MINIMUM OF 60 PSI. IF A BOOSTER PUMP IS REQUIRED DUE TO LOW PRESSURE, BUT NOT CALLED FOR IN THE PLAN, IT SHALL BE SIZED AND BID AS A CHANGE ORDER.

UNMARKED MAINLINE AND LATERAL PIPING SHALL BE 1" CL-200 PVC PIPE UNLESS OTHERWISE NOTED.

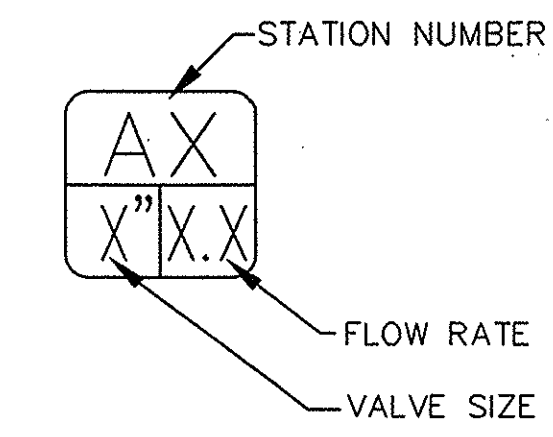
PIPE SHOWN IN PAVED AREA WITHOUT SLEEVE IS DIAGRAMMATICAL AND SHALL BE LOCATED INSIDE OF PLANTED AREA APPROXIMATELY 1' FROM HARDSCAPE.

ALL VALVES SHALL BE IN AMETEK VALVE BOXES OR APPROVED EQUAL. ALL ELECTRICAL CONNECTIONS AND SPLICES SHALL BE SEALED WITH WATERPROOF CONNECTIONS.

IRRIGATION PRODUCTS (IE: SPRINKLERS, VALVES, CONTROLLERS) SHALL BE AS LISTED IN THE LEGEND OR APPROVED EQUAL BY TORO OR HUNTER. THE INSTALLED SYSTEM SHALL BE COMPRISED OF PRODUCT BY A SINGLE MANUFACTURER AND SHALL BE SUPPLIED BY AN AUTHORIZED DISTRIBUTOR TO PROVIDE SINGLE SOURCE RESPONSIBILITY FOR WARRANTY SERVICE AND SUPPORT AND TO ASSURE COMPATIBILITY IN ALL RESPECTS. NO SUBSTITUTIONS ARE ALLOWED WITHOUT FIRST SUBMITTING SUBSTITUTE PRODUCT TO THE ASSOCIATE AND RECEIVING WRITTEN APPROVAL. SUBSTITUTE PRODUCTS MUST BE EQUAL IN PERFORMANCE AND CONSTRUCTION AND SHOW A COST SAVINGS TO THE OWNER. UNAPPROVED PRODUCT SHALL BE REMOVED AT NO COST TO THE ASSOCIATE.

CONTROL WIRE WILL BE SOLID COPPER WIRE U.L. APPROVED FOR DIRECT BURIAL IN GROUND. MINIMUM GAUGE #18 U.F. (MULTI-STRAND) OR #14 GAUGE SINGLE STRAND FOR DISTANCES OVER 1000'. COMMON WIRE SHALL BE WHITE. USE SEPARATE COMMON WIRE FOR EACH IRRIGATION CONTROLLER.

FINAL LOCATION OF RAIN SENSOR AND EXACT CONTROLLER LOCATION AS DIRECTED BY THE ASSOCIATE.



NOTE:

ALL PIPE SLEEVES SHALL BE 2X THE DIAMETER OF THE PIPE UNLESS OTHERWISE NOTED.

NOZZLE INDICATOR NEXT TO EACH SPRINKLER INDICATES THE NOZZLE THAT SHOULD BE USED WITH THAT SPRINKLER.

ALL UNMARKED PIPE IS 1" UNLESS OTHERWISE SPECIFIED.

PIPES ARE MARKED AT TRANSITION ONLY UNLESS OTHERWISE SPECIFIED.

USE DRIPLINE IN CONCRETE PLANTERS

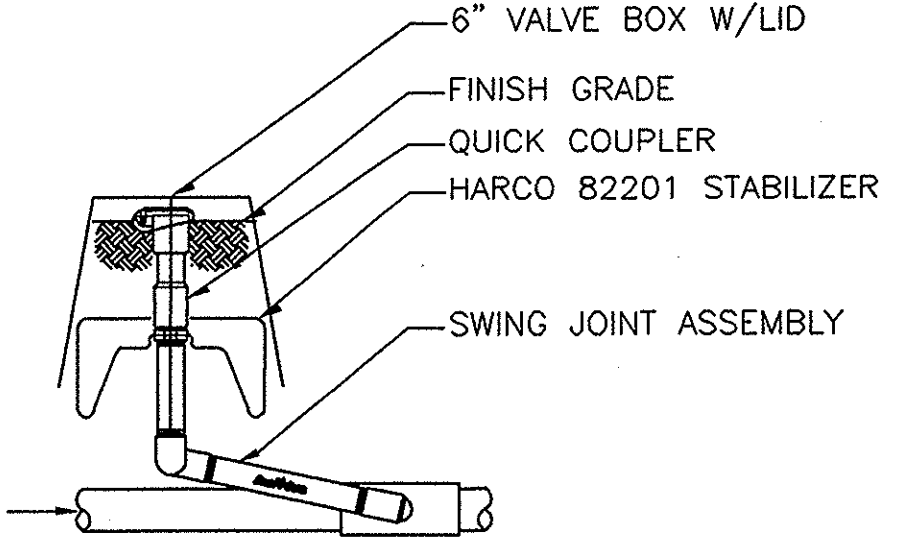
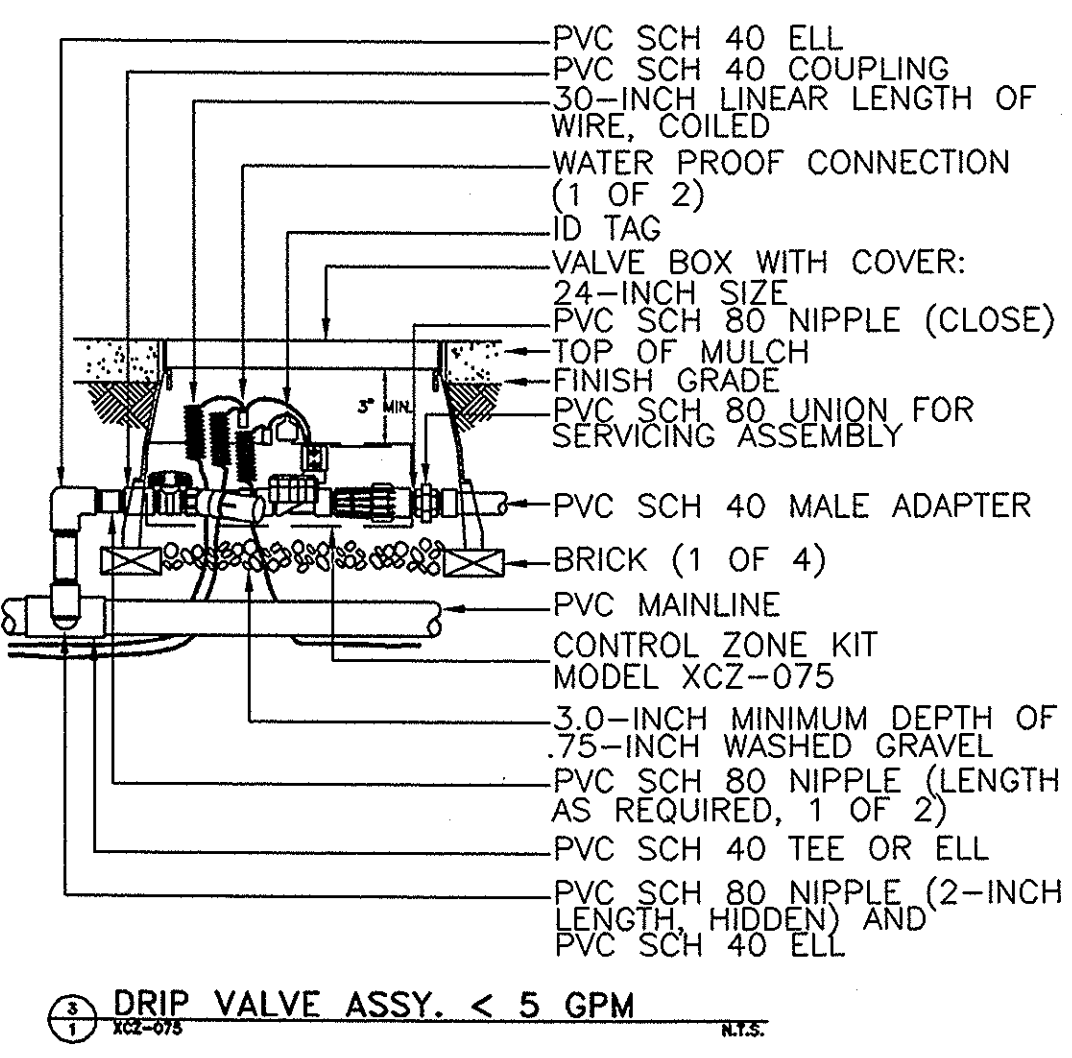
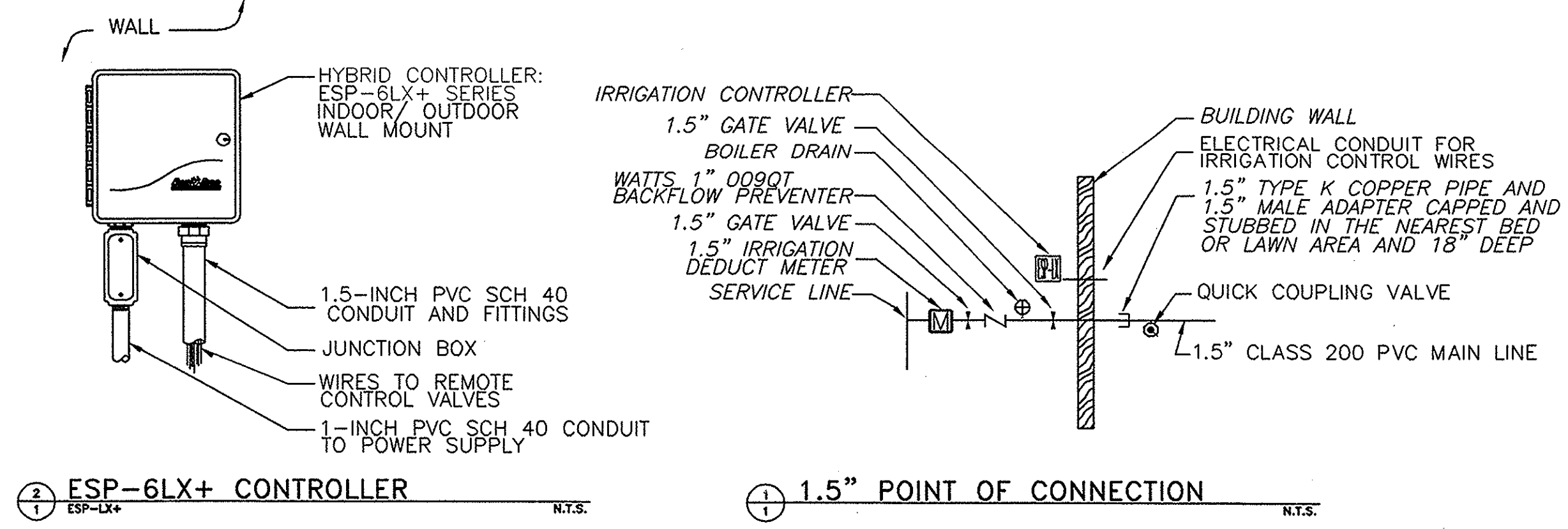
2 WORKING DAYS BEFORE YOU DIG

OHIO UTILITIES PROTECTION SERVICE
CALL TOLL FREE 800-362-2764

PENNSYLVANIA ONE-CALL UTILITIES PROTECTION SERVICE
CALL TOLL FREE 800-242-1776

KENTUCKY UTILITIES PROTECTION SERVICE
CALL TOLL FREE 800-752-6007

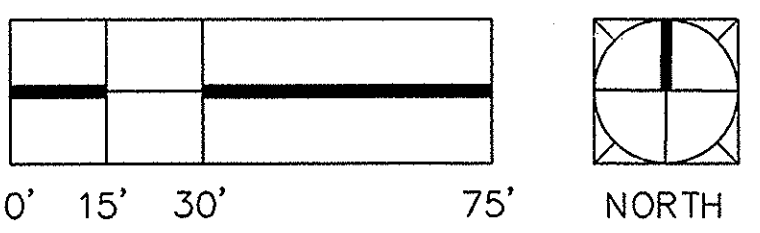
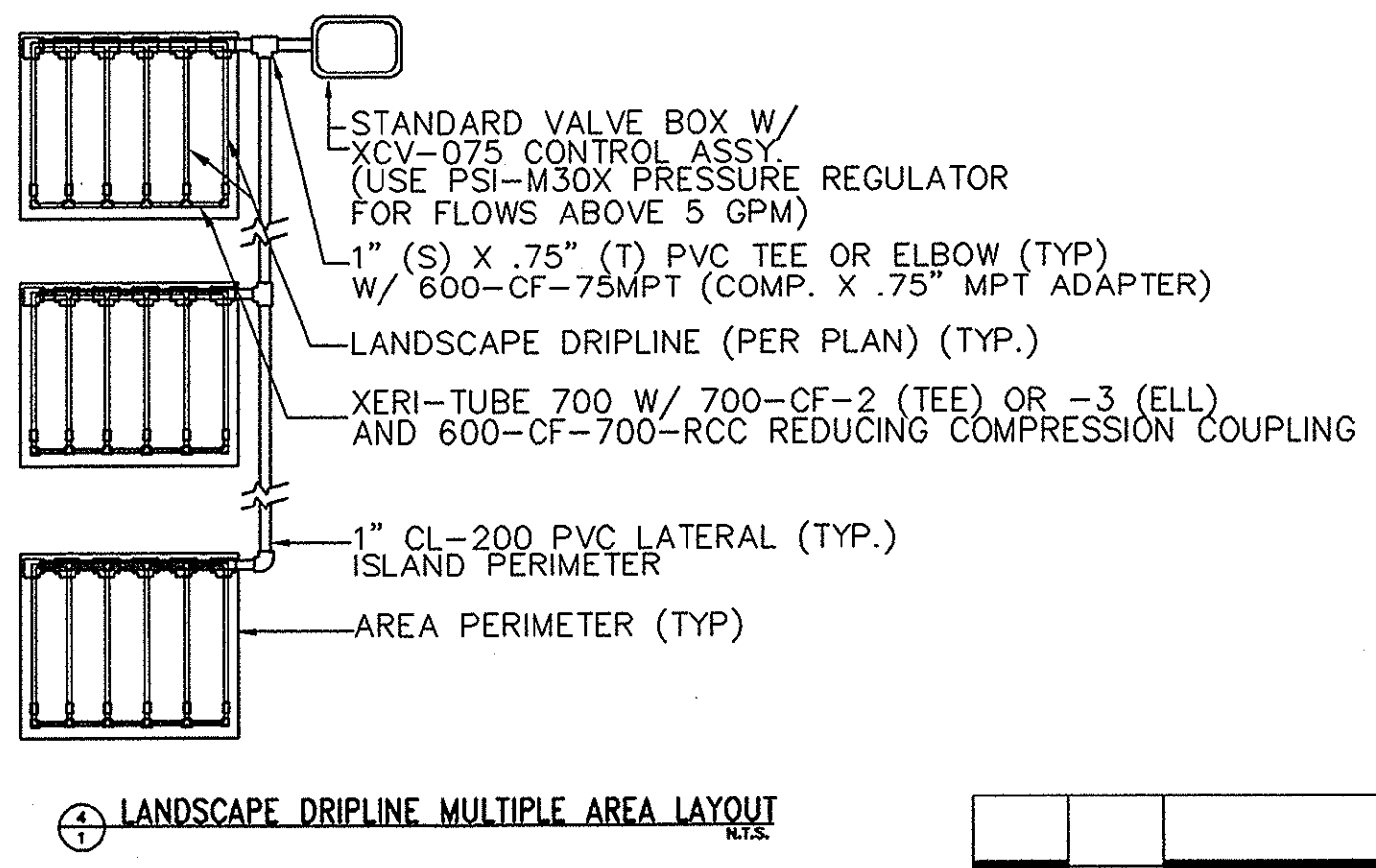
UTILITIES PROTECTION SERVICE (BASE UTILITIES OF WEST VIRGINIA)
CALL TOLL FREE 800-845-4848



NOTE:

ADJUST ANGLE OF SWING JOINT LAY ARM PER MANUFACTURER'S RECOMMENDATIONS TO ALLOW ADEQUATE IMPACT ABSORPTION

1" QUICK COUPLING VALVE



CONSULTING ARCHITECTS & ENGINEERS

ARCHITECT: **OFFICE OF THE STATE ARCHITECT**
MECHANICAL, ELECTRICAL & STRUCTURAL:
SRA, INC.

SITE/CIVIL: **KZF DESIGN**
LANDSCAPE ARCHITECTURE:
KINZELMAN KLINE

REVISIONS		
NO.	DATE	DESCRIPTION

FOR:

OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION: (East Boro)
IRRIGATION PLAN - SOUTH SIDE

PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION

PREPARED BY:
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

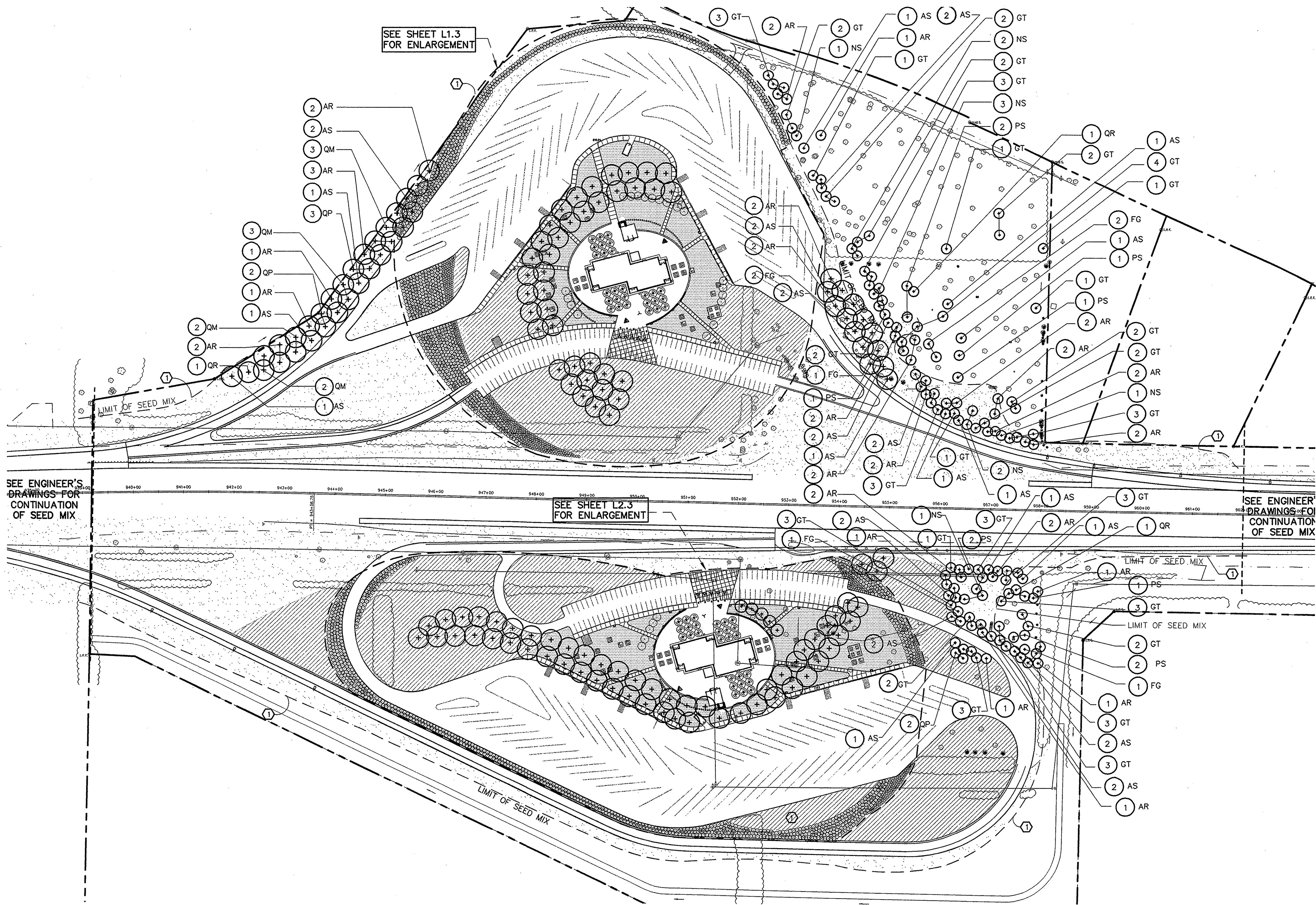
DATE	AUGUST, 2004	DATE	AUGUST, 2004	L2.4
------	--------------	------	--------------	------

GENERAL NOTES

1. ALL SHRUB MASSES TO BE INCORPORATED IN CONTINUOUS MULCH BED TO LIMITS SHOWN AND AS SPECIFIED. HARDWOOD MULCH, ITEM 661. MULCH BED SHALL EXTEND TO OUTSIDE EDGE OF SHRUB OR EVERGREEN MASS AS DRAWN.
2. THE APPROXIMATE LOCATIONS OF THE EXISTING UNDERGROUND UTILITIES ARE SHOWN. THESE HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE ASSOCIATE. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE OHIO UTILITIES PROTECTION SERVICE TO OBTAIN THE EXACT LOCATION OF ALL UTILITIES PRIOR TO COMMENCING WORK. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES WHICH MIGHT BE CAUSED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
3. ALL EXISTING PLANT MATERIAL SHOWN ON THIS PLAN IS TO BE PRESERVED UNLESS SPECIFICALLY NOTED OTHERWISE.
4. ORIGINAL SURVEY, DATED 10/15/03, AND SUBSEQUENT REVISION, DATED 2/26/04 PREPARED BY WD PARTNERS, 1201 DUBLIN ROAD, COLUMBUS, OHIO 43215, PHONE NUMBER (614) 221-0840.
5. CONTRACTOR SHALL PROVIDE TEMPORARY BARRIERS AT LIMITS OF CONSTRUCTION TO ASSURE PUBLIC SAFETY DURING CONSTRUCTION.
6. ALL AREAS DISTURBED BY CONSTRUCTION ARE TO BE RESTORED, FINE GRADED AND SEEDED WITH MIX IDENTIFIED ON THE PLAN. SEE ENGINEER'S DRAWINGS FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL STAKE LOCATIONS OF ALL TREES AND SHRUB MASSES AND OBTAIN THE ASSOCIATE'S APPROVAL PRIOR TO PLANTING.
8. ALL PLANTS SHALL MEET THE SIZING AND GRADING STANDARDS ESTABLISHED BY THE AMERICAN NURSERYMAN'S ASSOCIATION.
9. SEE SHEETS L1.3 AND L2.3 FOR INFORMATION ABOUT PLANTINGS AND SEEDING LIMITS NOT SHOWN ON THIS PLAN.
10. PROVIDE 6" DEPTH TOPSOIL IN ALL AREAS TO BE SEEDED WITH TURF, MANICURED LAWN OR MEADOW. PROVIDE 18" DEPTH TOPSOIL IN ALL PLANT BEDS.
11. ALL SHRUB MASSES, TREE MASSES AND EDGES OF MEADOW ARE TO HAVE SMOOTH, CONTINUOUS CURVES.

CODED NOTES

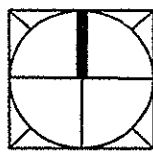
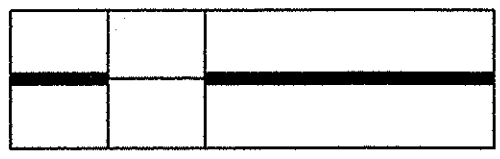
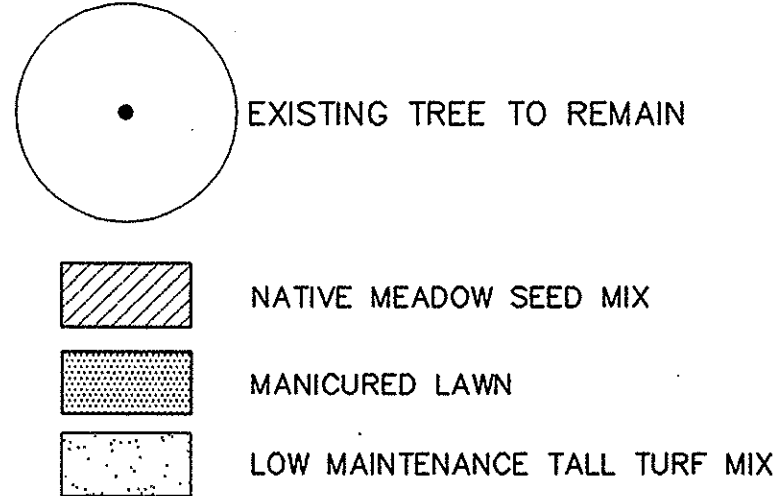
- ① LIMIT OF SEED MIX TO MATCH ENGINEER'S LIMIT OF GRADING. SEE ENGINEER'S SECTIONS AND DRAWINGS.



PLANT LIST (THIS SHEET)

QTY.	KEY	COMMON NAME	BOTANICAL NAME	SIZE	ROOT	REMARKS
34	AR	ARMSTRONG RED MAPLE	ACER RUBRUM 'ARMSTRONG'	1/2" - 1" cal.	B&B	PARK GRADE
27	AS	SUGAR MAPLE	ACER SACCHARUM	1/2" - 1" cal.	B&B	PARK GRADE
5	FG	AMERICAN BEECH	FAGUS GRANDIFOLIA	1/2" - 1" cal.	B&B	PARK GRADE
61	GT	THORNLESS HONEYLOCUST	GLEDTISIA T. 'INERMIS'	1/2" - 1" cal.	B&B	PARK GRADE
10	NS	BLACKGUM	NYSSA SYLVATICA	1/2" - 1" cal.	B&B	PARK GRADE
9	PS	BLACK CHERRY	PRUNUS SEROTINA	1/2" - 1" cal.	B&B	PARK GRADE
10	QM	BUR OAK	QUERCUS MACROCARPA	2" - 2 1/2" cal.	B&B	PARK GRADE
7	QP	PIN OAK	QUERCUS PALUSTRIS	1/2" - 1" cal.	B&B	PARK GRADE
3	QR	RED OAK	QUERCUS RUBRA	1/2" - 1" cal.	B&B	PARK GRADE

PLANTING LEGEND



CONSULTING ARCHITECTS & ENGINEERS ARCHITECT: OFFICE OF THE STATE ARCHITECT MECHANICAL, ELECTRICAL & STRUCTURAL: SRA, INC. SITE/CIVIL: KZF DESIGN LANDSCAPE ARCHITECTURE: KINZELMAN KLINE	
REVISIONS	
NO.	DATE DESCRIPTION
FOR: OHIO DEPT. OF TRANSPORTATION	
DRAWING DESCRIPTION: OVERALL PLANTING PLAN	
PROJECT NO. 770-2003-074 I-70 / LICKING COUNTY REST AREA	
STATE OF OHIO DEPARTMENT OF ADMINISTRATIVE SERVICES GENERAL SERVICES DIVISION PREPARED BY: GENERAL SERVICES DIVISION OFFICE OF THE STATE ARCHITECT	
DATE: AUGUST, 2004	DATE: AUGUST, 2004
BY: L3.0	



1/2" EXPANSION JOINT.

SAW CUT CONTROL JOINT, 1/4 DEPTH OF SLAB.

4" CAST-IN-PLACE CONCRETE PAVEMENT, ODOT ITEM #608.

4" COMPACTED THICKNESS AGGREGATE BASE COURSE, ODOT ITEM #304.

COMPACTED SUBGRADE ODOT ITEM #204.

The diagram is a cross-sectional view of a pavement structure. It shows a top layer of concrete with a saw cut control joint and a 1/2" expansion joint. Below the concrete is a 4" compacted thickness aggregate base course, and below that is a compacted subgrade. Arrows point from the text labels to the corresponding layers and joints in the diagram.

NTS

NTS

1/2" EXPANSION JOINT.

SAW CUT CONTROL JOINT, 1/4 DEPTH OF SLAB.

11" CAST-IN-PLACE, REINFORCED CONCRETE PAVEMENT, ODOT ITEM #451. TO MATCH ADJACENT PARKING LOT, SEE ENGINEER'S PLANS

6" COMPACTED THICKNESS AGGREGATE BASE COURSE. ODOT ITEM #304.

COMPACTED SUBGRADE ODOT ITEM #204.

NTS

PAVEMENT THICKNESS VARIES BY LOCATION, SEE PLAN.

BONDED.

24" #4 REBAR DOWEL, 36" O.C., HOLD LEVEL AND PERPENDICULAR, PLACE DOWEL AT CENTERLINE DEPTH OF THINNEST SLAB TO BE JOINED.

1/2" EXPANSION JOINT.

UNBONDED WITH EXPANSION CAP AT THE END.

PAVEMENT THICKNESS VARIES BY LOCATION, SEE PLAN.

ATC

NTS

6. THE SURFACE OF ANY TWO ADJACENT UNITS SHOULD NOT DIFFER BY MORE THAN 1/8" IN HEIGHT. BRICK PAVERS SHALL BE PLACED IN A RUNNING BOND PATTERN. THE FACE OF ALL BRICK PAVERS SHALL BE KEPT CLEAN AND PROTECTED SO AS TO AVOID CHIPPING DURING CONSTRUCTION.

ADJACENT VEHICULAR PAVEMENT, SEE ENGINEER'S DRAWINGS.

DOWEL JOINT, SEE DETAIL #4, SHEET L4.0.

DETECTABLE WARNING BRICK PAVERS, SAND SWEEP JOINTS.

1/2" SAND SETTING BED

HEAVY DUTY CONCRETE PAVEMENT, SEE DETAIL #2, SHEET L4.0.

2'-0"

1'-0"

2'-0"

8"

6"

COMPACTED SUBGRADE
ODOT ITEM #204.

NTS

6'-0"

18"

STANDARD ALUMINUM ACCESSIBLE PARKING SIGN.

STANDARD ALUMINUM "VAN ACCESSIBLE" PARKING SIGN, WHERE INDICATED ON PLANS.

2"x2" SQUARE STEEL TUBE EXTEND INTO CONCRETE 2'-6"

5
L4.2

30" ROUND CONCRETE BOLLARD

CONCRETE PAVEMENT

12" DIAMETER CONCRETE BASE

—

NOTE:
 1. CONTRACTOR TO PROVIDE DRIP IRRIGATION TO ALL PLANTERS.
 INSTALL (4) DRIP LINES PER PLANTER, SEE SHEET L1.4 AND L2.4.

CONCRETE PAVEMENT, SEE DETAIL #1, SHEET L4.0.
 ACCENT LIGHT: (2) PER PLANTER, KIM (OR APPROVED EQUAL) MODEL #6750DNF70MHXGRAGS74
 CONTRACTOR TO PROVIDE AND INSTALL ALL CONDUIT AND WIRING.
 3" BARK MULCH
 ROOT BALL
 CUSTOM CONCRETE PLANTER BY DURA-ART STONE OR WAUSAU. PEBBLE FINISH ON EXTERIOR SURFACES. BULL-NOSE FINISH TO BE SMOOTH. COLOR: WAUSAU A4 OR DURA-ART STONE S-15.

10'-0"
 12"
 4"
 28"
 R15'-6"
 24"
 6"
 24"

SHIM AS REQUIRED TO LEVEL PLANTER, SEAL GAP WITH BACKER ROD AND CAULK. SEE GRADING PLANS FOR PLAZA ELEVATIONS. CAULK COLOR TO MATCH PLANTER COLOR.
 4" PERFORATED DRAIN PIPE
 24" DEEP STRUCTURAL TOPSOIL MIX, SEE PLAN FOR EXTENTS.

8

(3) FLAGPOLE UPLIGHTS PER POLE, PLACE LIGHTS EQUALLY AROUND FLAGPOLE.
 LIGHT FIXTURE: KIM LTV10 SERIES (OR APPROVED EQUAL) COMPOSITE HOUSING ACCENT, SEE ENGINEER'S DRAWINGS.

8" DIA. POLISHED STAINLESS STEEL BALL
 DOUBLE SLEEVE NICKEL PLATED TRUCK W/STAINLESS STEEL BEARINGS
 4 SWIVEL SNAPS CHROME PLATED
 INTERNAL HALYARDS
 CONE TAPERED DURANODIC ALUMINUM POLE (35' HGT.)
 STAINLESS STEEL FLASH COLLAR
 CAULK
 WATERPROOF CEMENT
 FINISH GRADE
 CONCRETE PAVEMENT, SEE DETAIL #1, SHEET L4.0.
 4000 PSI CONCRETE
 HARDWOOD WEDGES (REMOVE AFTER TAMPING SAND); SEAL W/ JNT. SEALANT
 4000 PSI CONCRETE
 DRY SAND, TIGHTLY TAMPED AFTER ALIGNING POLE
 16 GA FOUNDATION SLEEVE(8" DIA) (HOT DIPPED GALV. STEEL)
 STEEL CENTERING WEDGES
 3/16" STEEL BASE PLATE
 6x6 STEEL SUPPORT PLATE WELDED TO GROUND SPIKE
 3/4" DIA. LIGHTNING ARRESTOR SPIKE TO 12" BELOW SUPPORT PLATE; BOND SPIKE TO POLE

4'-6"

4"

2'-0"

3'-6"

6"

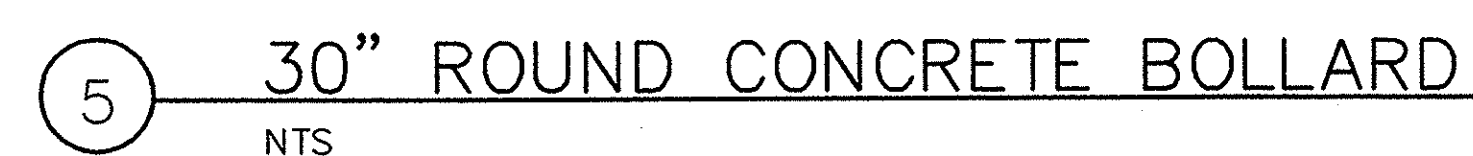
6"

12"

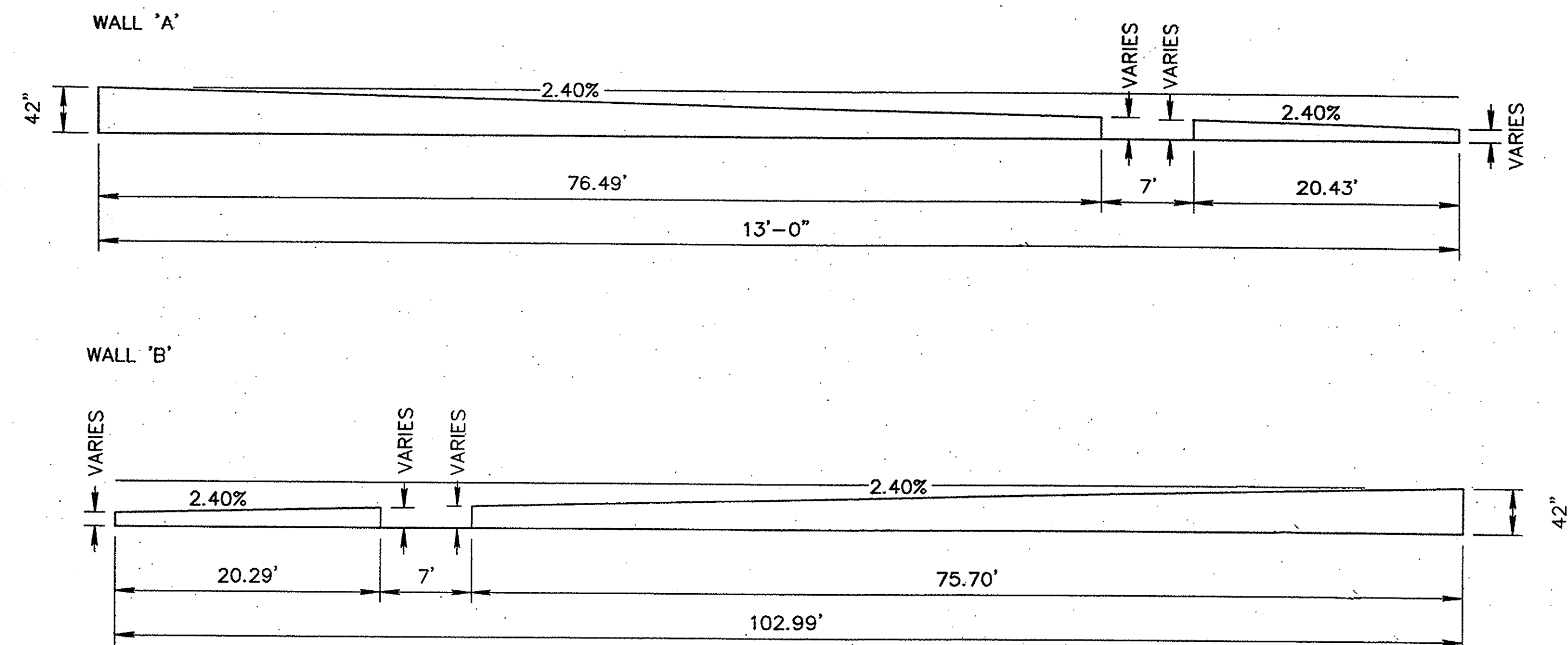
3'-0"

9)

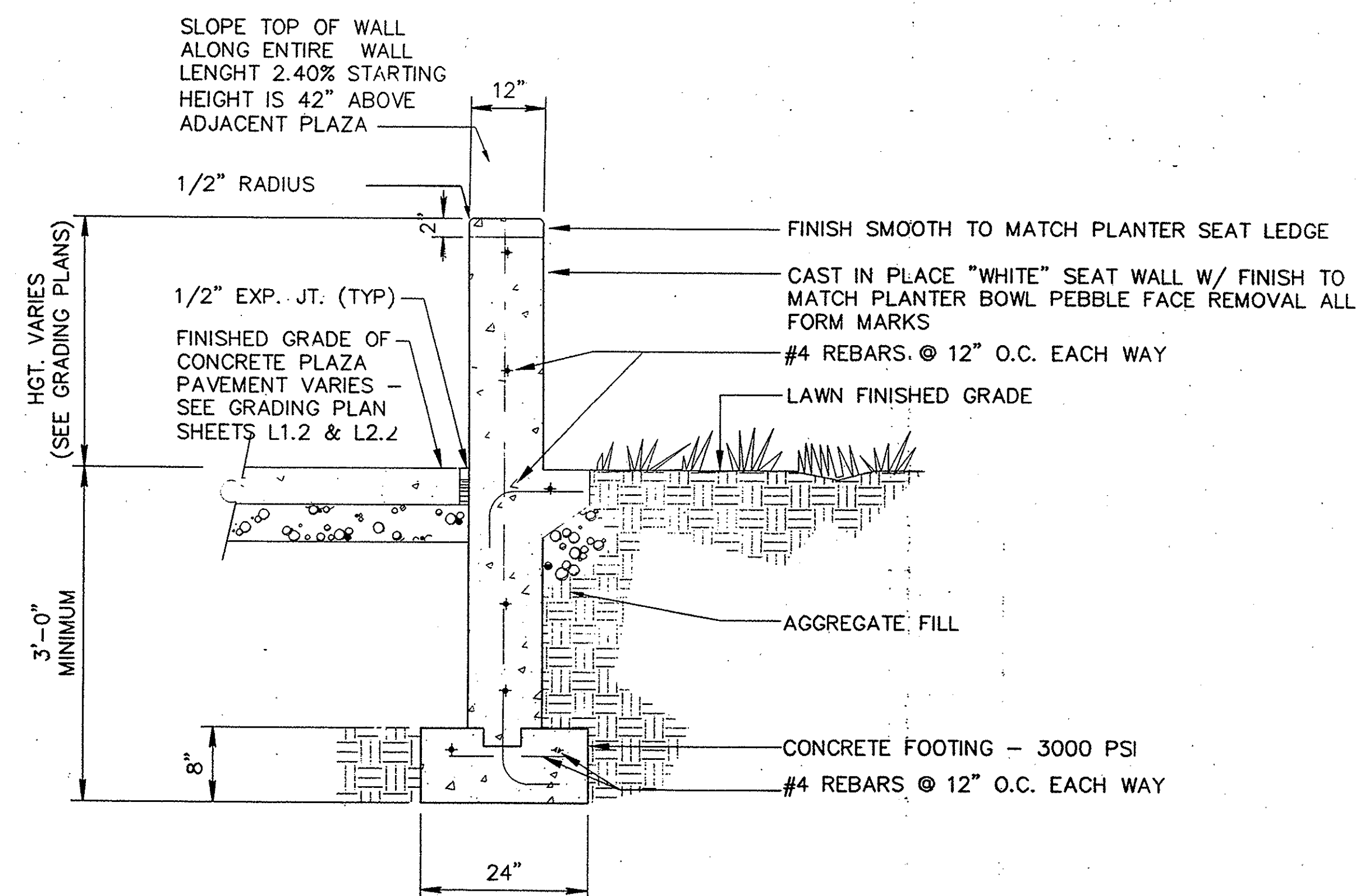
CONSULTING ARCHITECTS & ENGINEERS ARCHITECT: OFFICE OF THE STATE ARCHITECT MECHANICAL, ELECTRICAL & STRUCTURAL: STA. INC. SITE/CIVIL: KZF DESIGN LANDSCAPE ARCHITECTURE: KINZELMAN KLINE																									
<table border="1"> <thead> <tr> <th colspan="2">REVISONS</th> </tr> <tr> <th>NO.</th> <th>DATE DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>		REVISONS		NO.	DATE DESCRIPTION																				
REVISONS																									
NO.	DATE DESCRIPTION																								
																									
FOR: OHIO DEPT. OF TRANSPORTATION																									
DRAWING DESCRIPTION: SITE DETAILS - 1 PROJECT NO. 770-2007-074 I-70 / LICKING COUNTY REST AREA																									
STATE OF OHIO DEPARTMENT OF ADMINISTRATIVE SERVICES GENERAL SERVICES DIVISION PREPARED BY GENERAL SERVICES DIVISION OFFICE OF THE STATE ARCHITECT																									
CO SET PLOT DATE AUGUST, 2004	DATE AUGUST, 2004																								
L4.0																									



CONSULTING ARCHITECTS & ENGINEERS					
ARCHITECT:					
OFFICE OF THE STATE ARCHITECT MECHANICAL, ELECTRICAL & STRUCTURAL: SEA, INC.					
SITE CIVIL: KZF DESIGN LANDSCAPE ARCHITECTURE: KINZELMAN KLINE					
REVISIONS					
NO.		DATE		DESCRIPTION	
FOR:					
OHIO DEPT. OF TRANSPORTATION					
DRAWING DESCRIPTION:					
SITE DETAILS - 3					
PROJECT NO. 770-2003-074					
I-70 / LICKING COUNTY REST AREA					
STATE OF OHIO DEPARTMENT OF ADMINISTRATIVE SERVICES GENERAL SERVICES DIVISION PREPARED BY GENERAL SERVICES DIVISION OFFICE OF THE STATE ARCHITECT					
CD BAYT PLOT DATE		DATE			
AUGUST, 2004		AUGUST, 2004		L4.2	

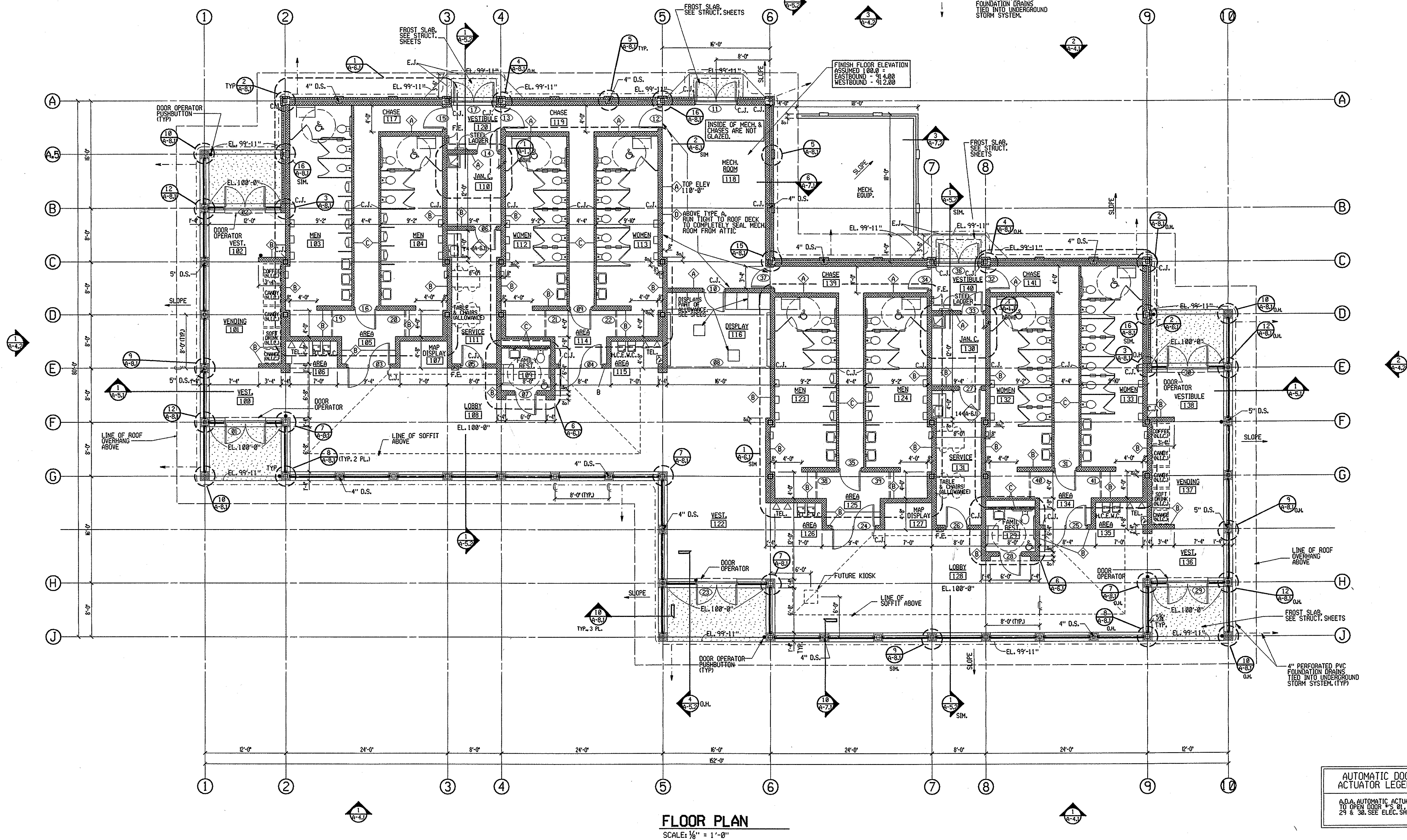
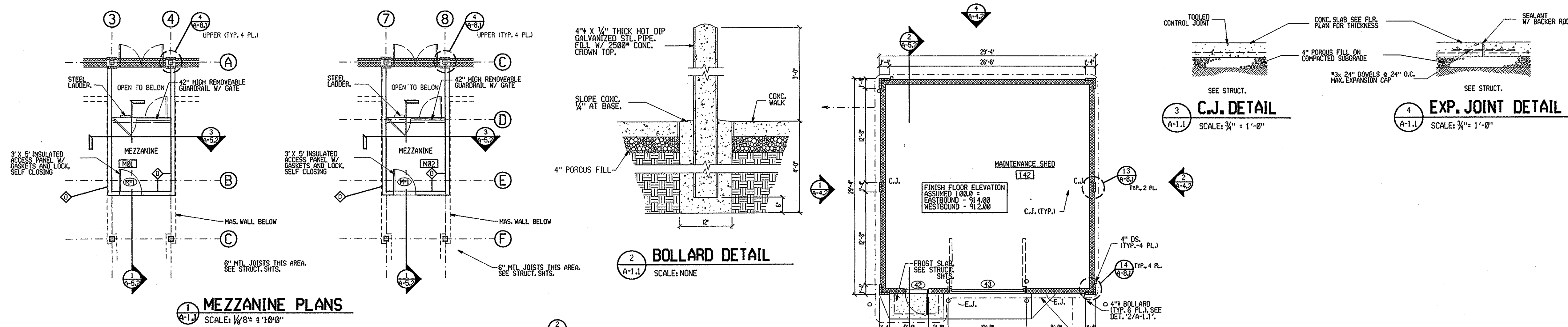


1 CONCRETE PLAZA SEAT WALL SECTION/ELEVATION
NTS



2 CONCRETE PLAZA SEAT WALL
NTS

CONSULTING ARCHITECTS & ENGINEERS ARCHITECT: OFFICE OF THE STATE ARCHITECT MECHANICAL, ELECTRICAL & STRUCTURAL: SRA, INC. SITE/CIVIL: RZF DESIGN LANDSCAPE ARCHITECTURE: KINZELMAN KLINE																																			
REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>			NO.	DATE	DESCRIPTION																														
NO.	DATE	DESCRIPTION																																	
FOR: OHIO DEPT. OF TRANSPORTATION																																			
DRAWING DESCRIPTION: SITE DETAILS - 4 PROJECT NO. 770-2003-074 I-70 / LICKING COUNTY REST AREA																																			
STATE OF OHIO DEPARTMENT OF ADMINISTRATIVE SERVICES GENERAL SERVICES DIVISION PREPARED BY GENERAL SERVICES DIVISION OFFICE OF THE STATE ARCHITECT																																			
BID/CONSTRUCTION SET DATE AUGUST, 2004	DATE AUGUST, 2004	L4.3																																	



GENERAL NOTES

- SEE SHEET A3.1 FOR PARTITION TYPES, DOOR SCHEDULE AND ROOM FINISH SCHEDULE.
- SEE SHEET A8.1 FOR TYPICAL COLUMN, WALL AND SILL DETAILS.
- ALL PARTITION DIMENSIONS ARE TO THE FACE OF WALL, REGARDLESS OF PARTITION TYPE.
- A.D.A. AUTOMATIC ACTUATOR TO OPEN DOOR NUMBERS 01, 02, 23 29 & 30. SEE ELEC. SHTS.



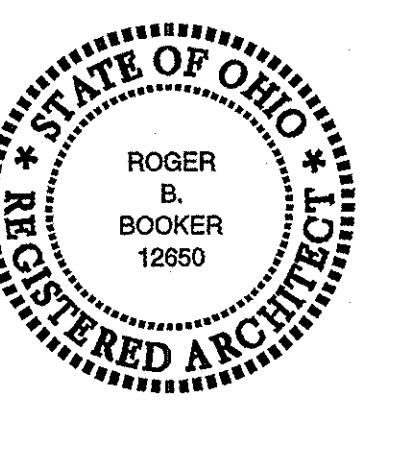
CONSULTING ARCHITECTS & ENGINEERS

ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL & STRUCTURAL:
SRIA, INC.

SITE/CIVIL:
KZF DESIGN
LANDSCAPE ARCHITECTURE:
KINZELMAN KLINE

REVISIONS

NO.	DATE	DESCRIPTION



FOR:

OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
FLOOR PLANS

PROJECT NO. 770-2003-074

I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION

PREPARED BY:
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

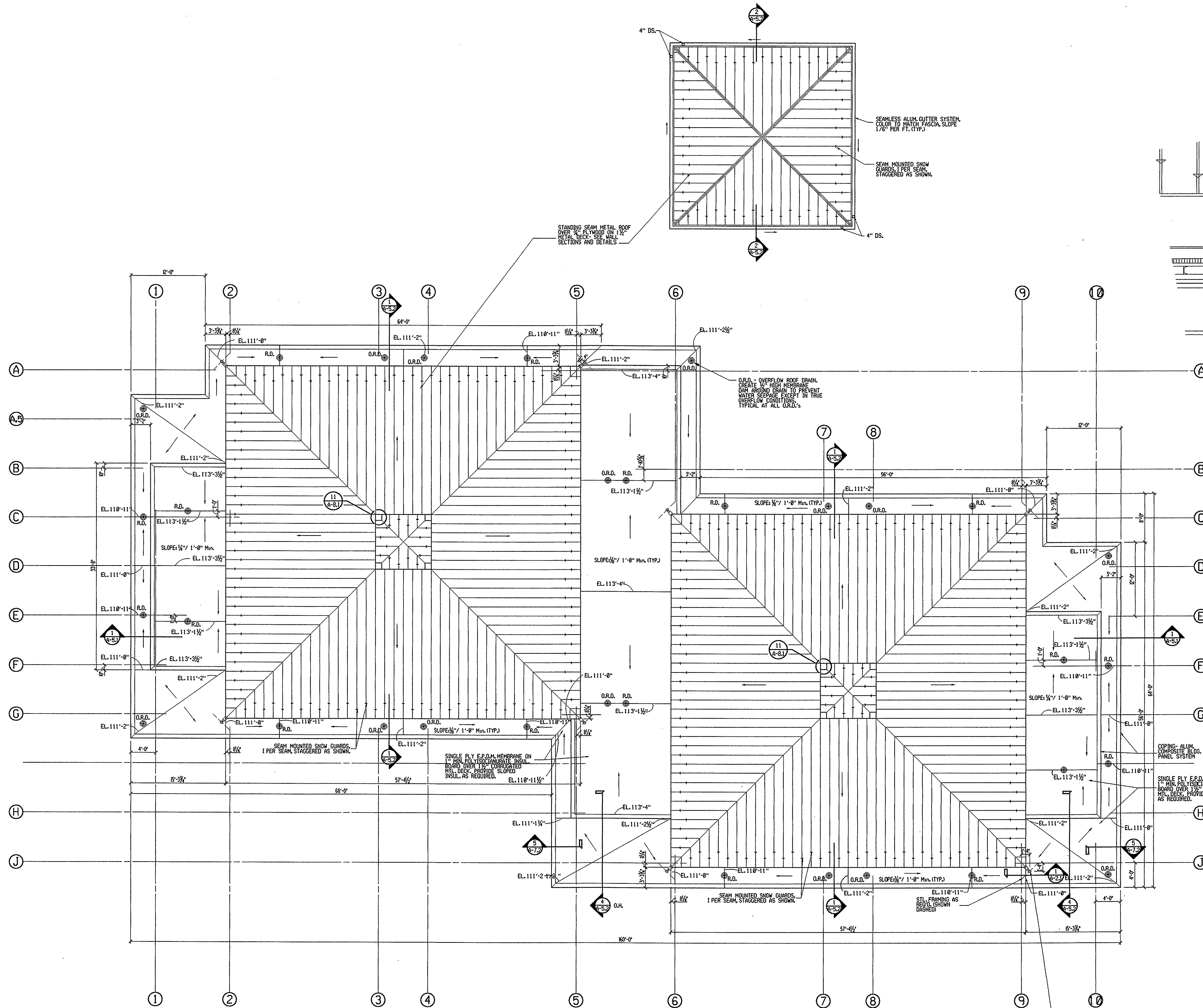
PLOT DATE:
13-JUL-2004

DATE:
AUGUST, 2004

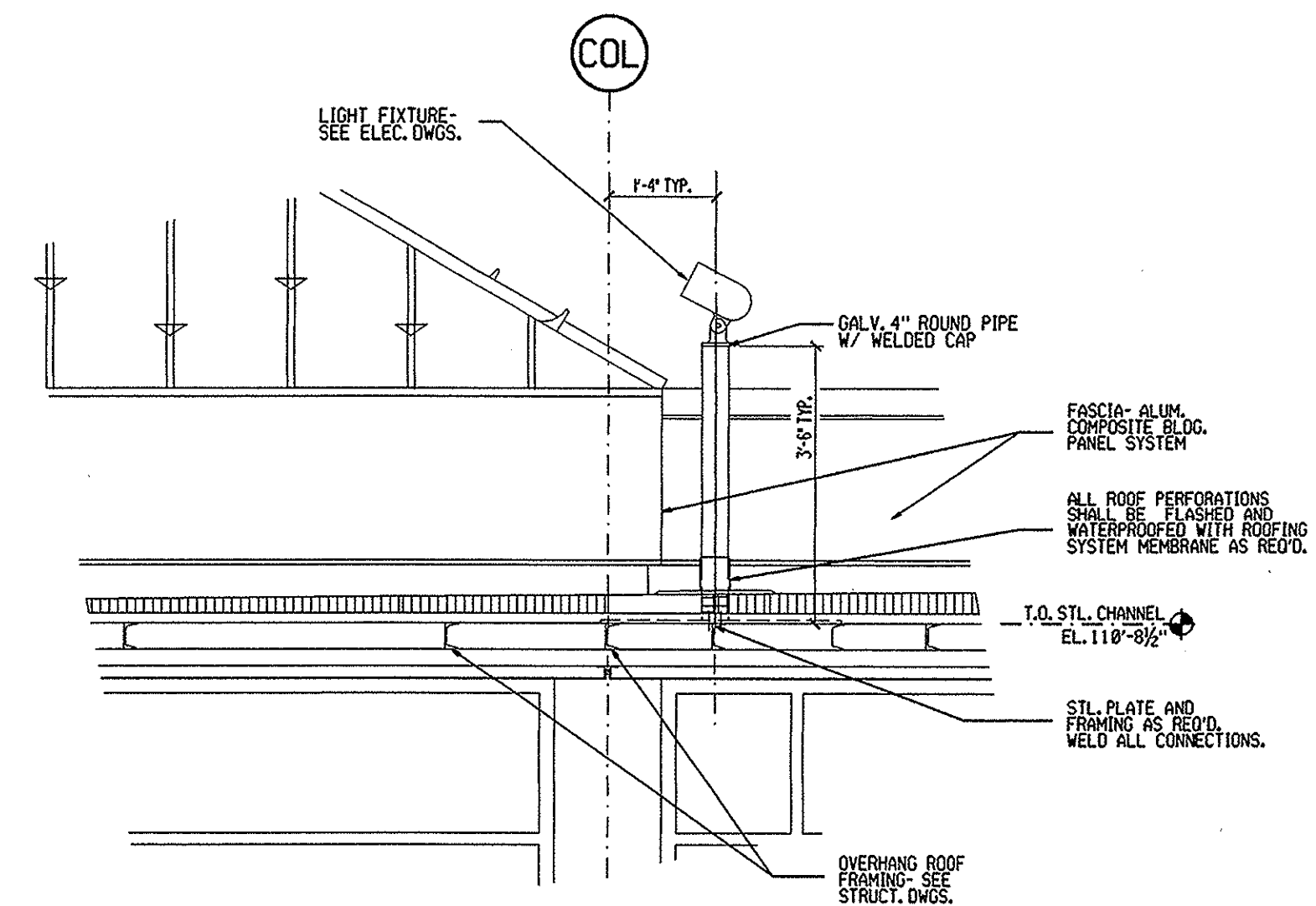
A1.1

AUTOMATIC DOOR ACTUATOR LEGEND:
A.D.A. AUTOMATIC ACTUATOR
TO OPEN DOOR #S 01, 02, 23
29 & 30. SEE ELEC. SHTS.

BID/CONSTRUCTION SET



ROOF PLAN
SCALE: 1/8" = 1'-0"



1 DETAIL
SCALE: 1/2" = 1'-0"

1/8" = 1'-0"

0 4' 8' 16' 24'

CONSULTING ARCHITECTS & ENGINEERS
 ARCHITECT:
OFFICE OF THE STATE ARCHITECT
 MECHANICAL, ELECTRICAL & STRUCTURAL:
SRA, INC.
 SITE/CIVIL:
KZF DESIGN
 LANDSCAPE ARCHITECTURE:
KINZELMAN KLINE

REVISIONS		
NO.	DATE	DESCRIPTION

FOR:
OHIO DEPT. OF TRANSPORTATION

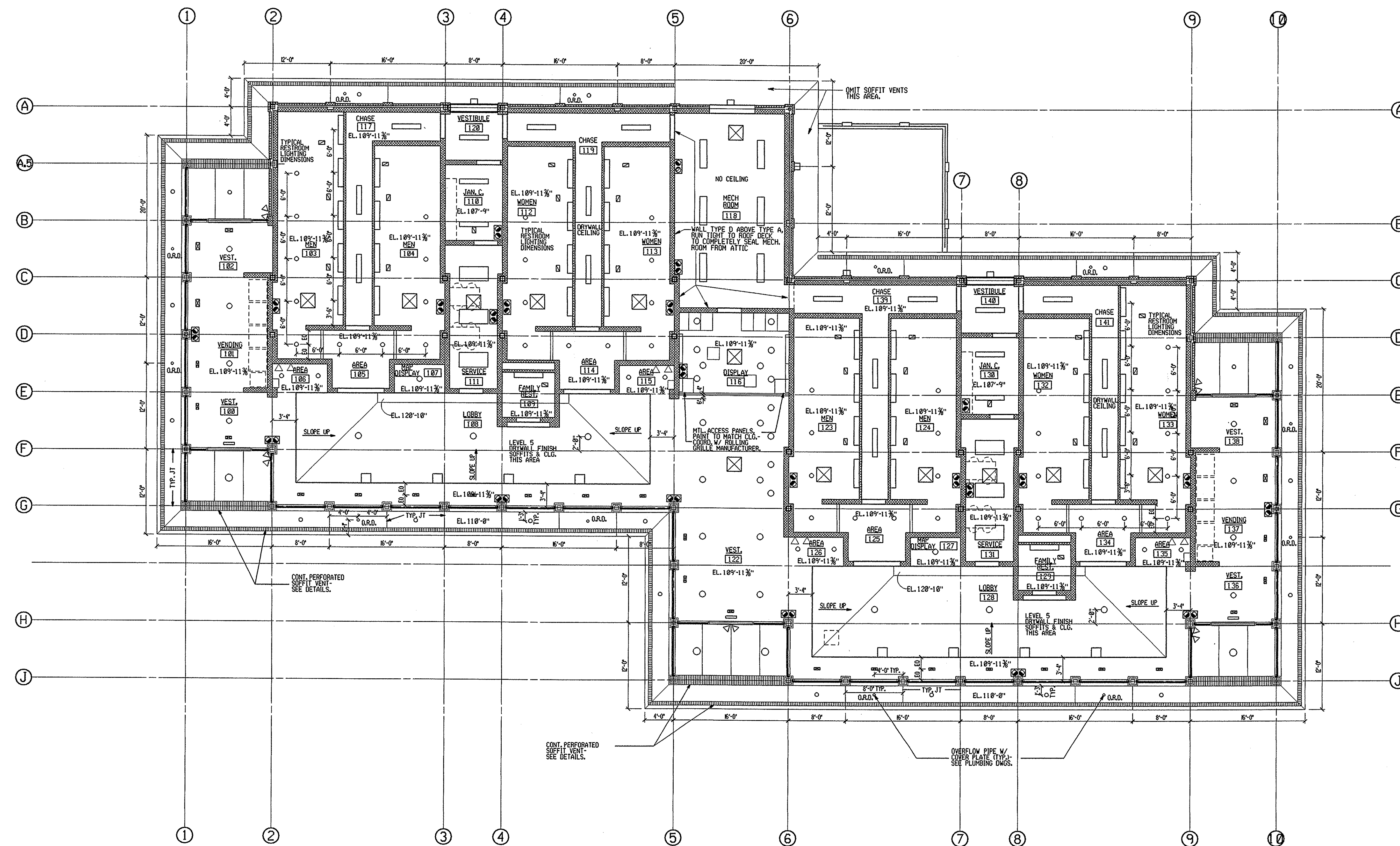
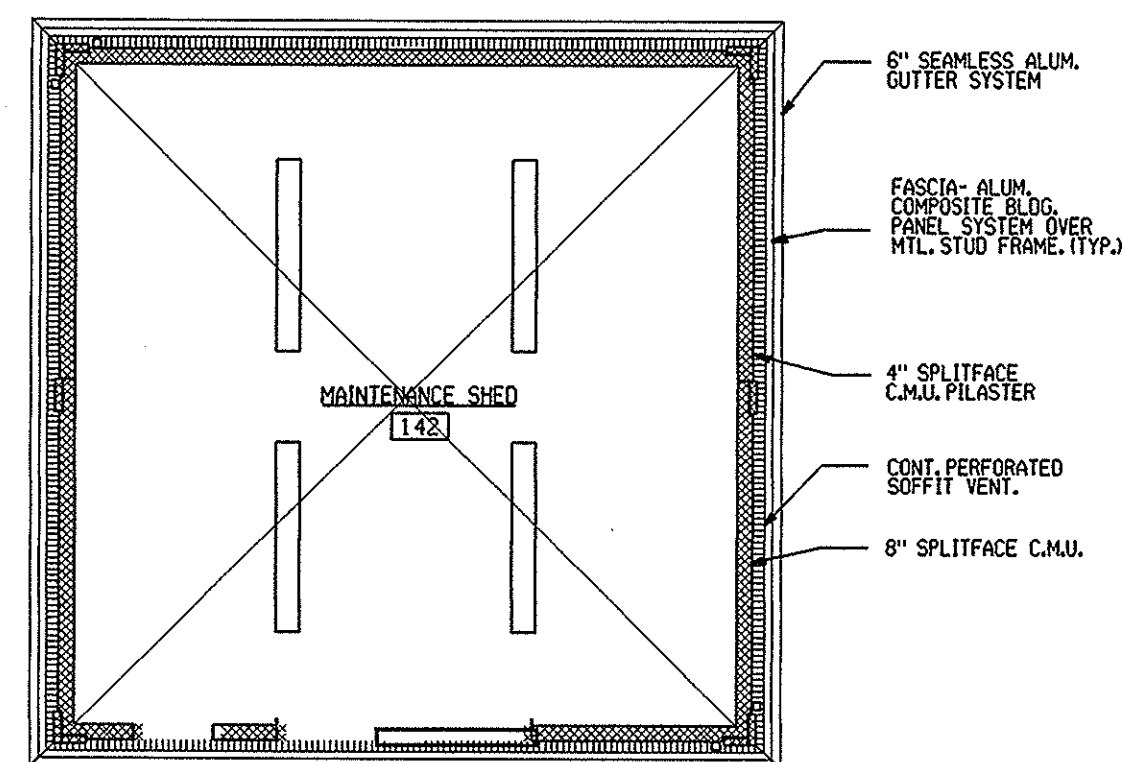
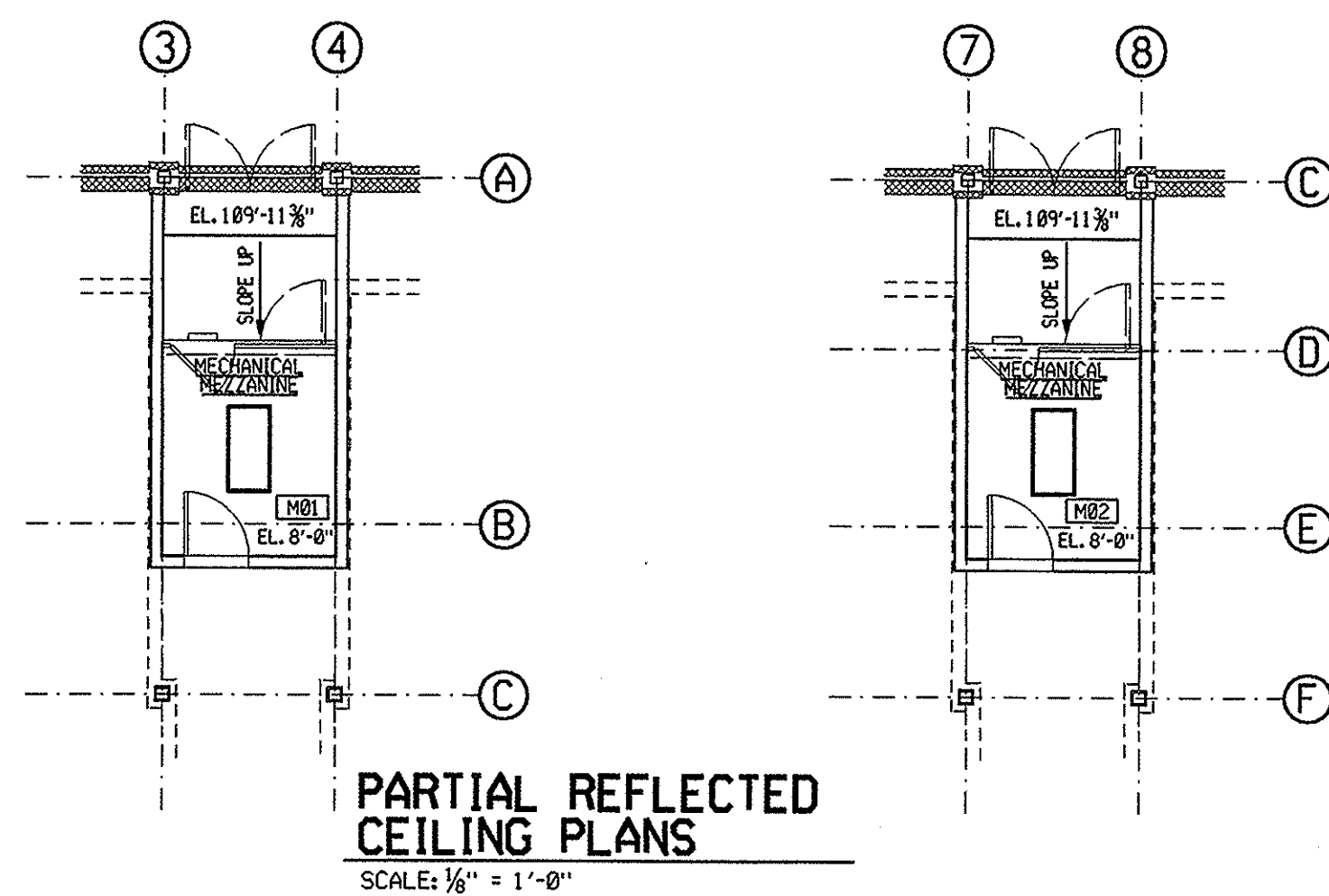
DRAWING DESCRIPTION:
ROOF PLANS

PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
 DEPARTMENT OF ADMINISTRATIVE SERVICES
 GENERAL SERVICES DIVISION
 PREPARED BY:
 GENERAL SERVICES DIVISION
 OFFICE OF THE STATE ARCHITECT

PLOT DATE: 13-JUL-2004 DATE: AUGUST, 2004

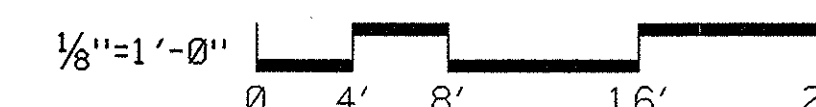
BID/CONSTRUCTION SET



LIGHT LOCATION NOTE:
UNLESS SHOWN OR DIMENSIONED OTHERWISE,
LIGHTS SHOULD FALL IN THE CENTER OF THE 8'-0"
COLUMN GRID OR BE CENTERED BETWEEN ADJACENT
WALLS AND LINE UP WITH EACH OTHER AS SHOWN.

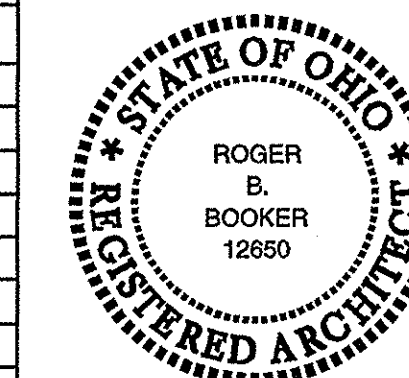
LEGEND:	
	2x4 FLOOR FIXTURE
	4' OR 8' FLOOR FIXTURE
	WALL MOUNTED METAL HALIDE FIXTURE
	RECESSED LIGHT FIXTURE
	EMERGENCY LIGHTING
	EXIT SIGN
	WEATHERPROOF EMERGENCY LIGHTING
	SUPPLY AIR GRILL
	RETURN AIR GRILL

NOTE:
SEE ELECTRICAL SHEETS AND SPECIFICATIONS
FOR ADDITIONAL INFORMATION.



CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL & STRUCTURAL:
SRA, INC.
SITE/CIVIL:
KZF DESIGN
LANDSCAPE ARCHITECTURE:
KINZELMAN KLINE

REVISIONS		
NO.	DATE	DESCRIPTION



FOR:
OHIO DEPT. OF TRANSPORTATION

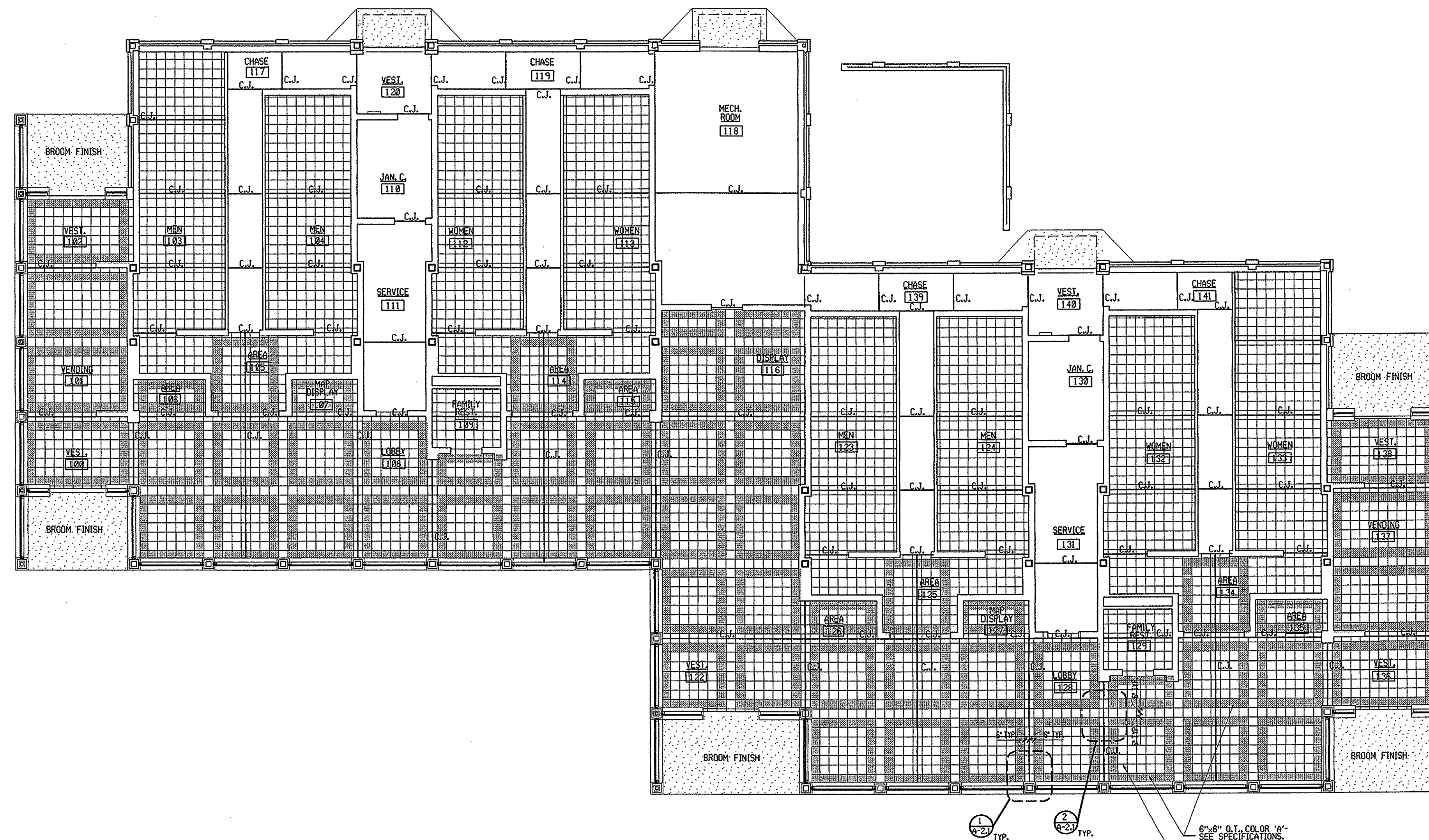
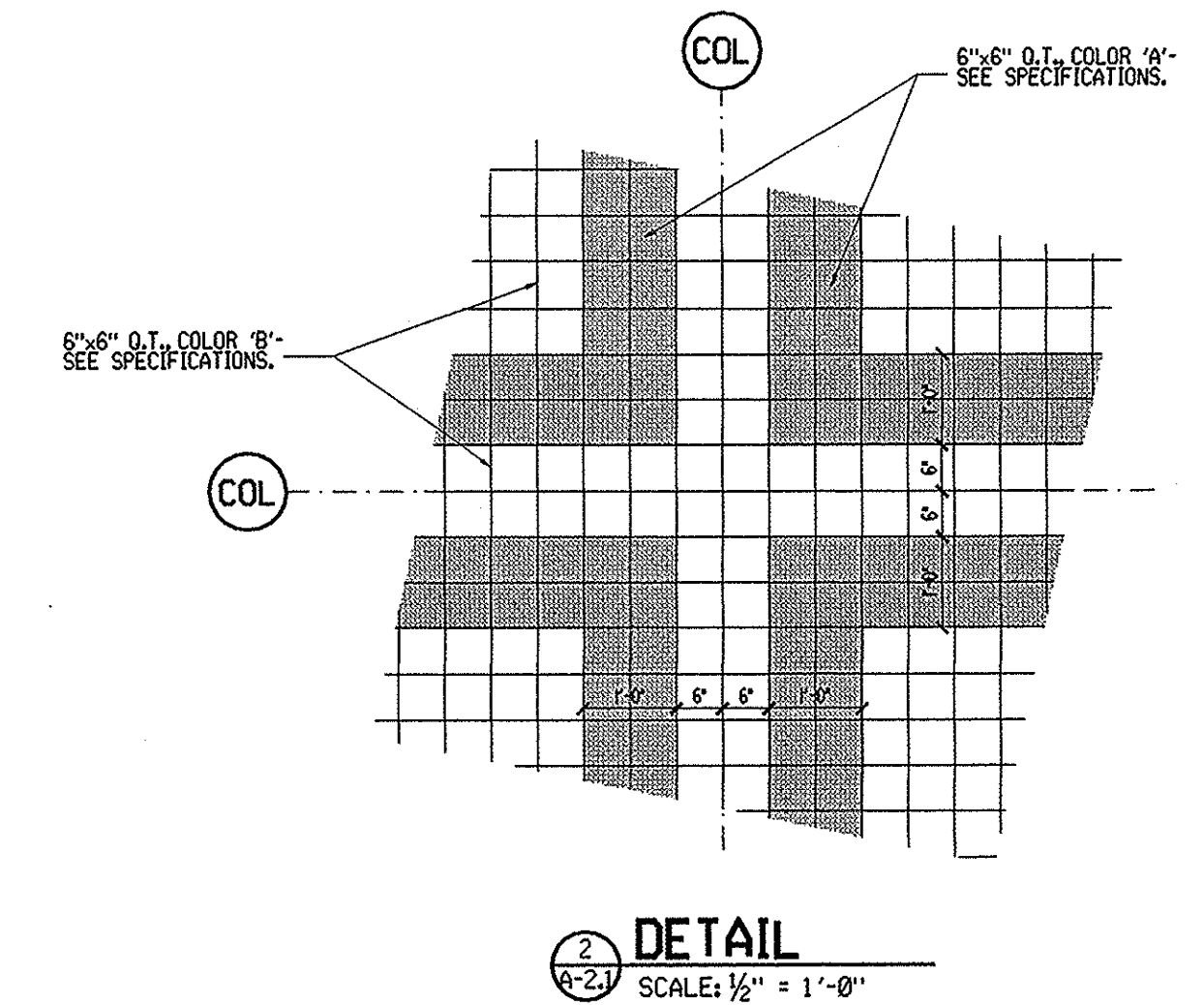
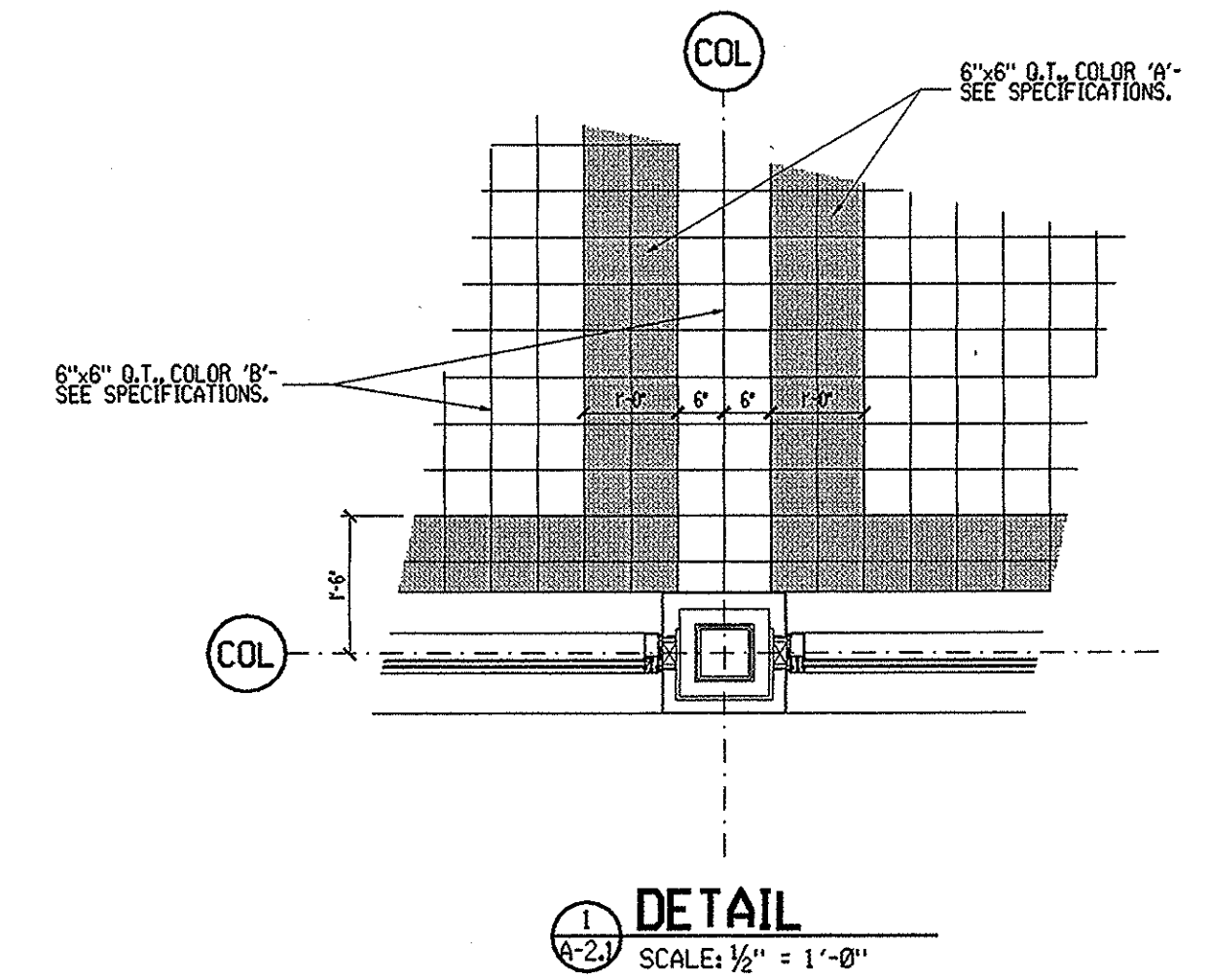
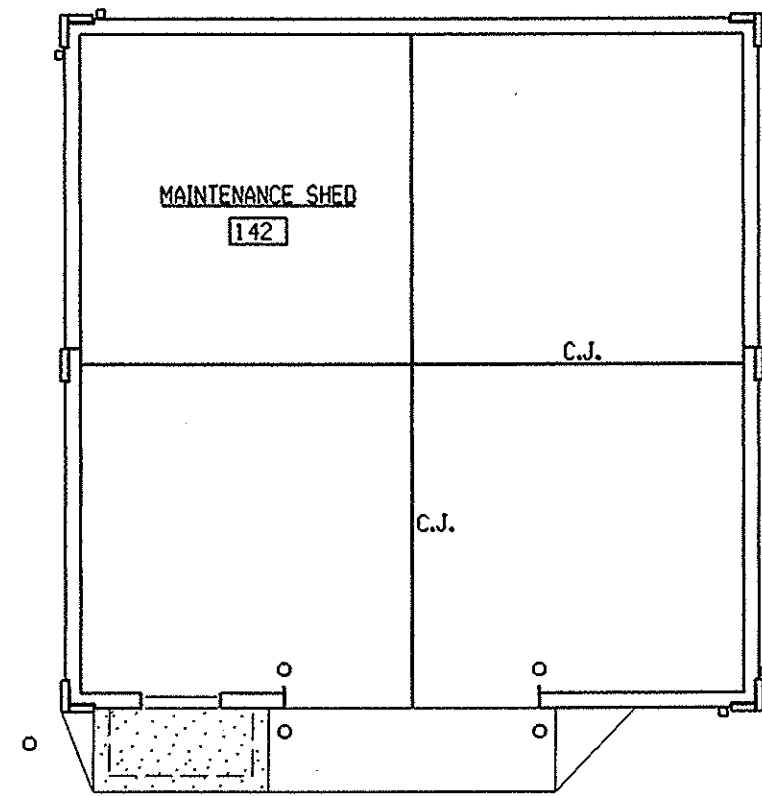
DRAWING DESCRIPTION:
REFLECTED CEILING PLAN

PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLOT DATE	DATE	
13-JUL-2004	AUGUST, 2004	A-1.3

BID/CONSTRUCTION SET



NOTES:
1. EACH SQUARE SHOWN ON THIS
TILE PLAN REPRESENTS 64
6\"/>

FLOOR TILE PLAN
SCALE: 1/8" = 1'-0"

1/8" = 1'-0"

0 4' 8' 16' 24'

CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL & STRUCTURAL:
SRA, INC.
SITE/CIVIL:
KZF DESIGN
LANDSCAPE ARCHITECTURE:
KINZELMAN KLINE

REVISIONS		
NO.	DATE	DESCRIPTION

FOR:
OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
FLOOR TILE PLAN

PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY:
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

REGISTERED ARCHITECT
ROGER B. BOOKER
12650

PLOT DATE:
13-JUL-2004

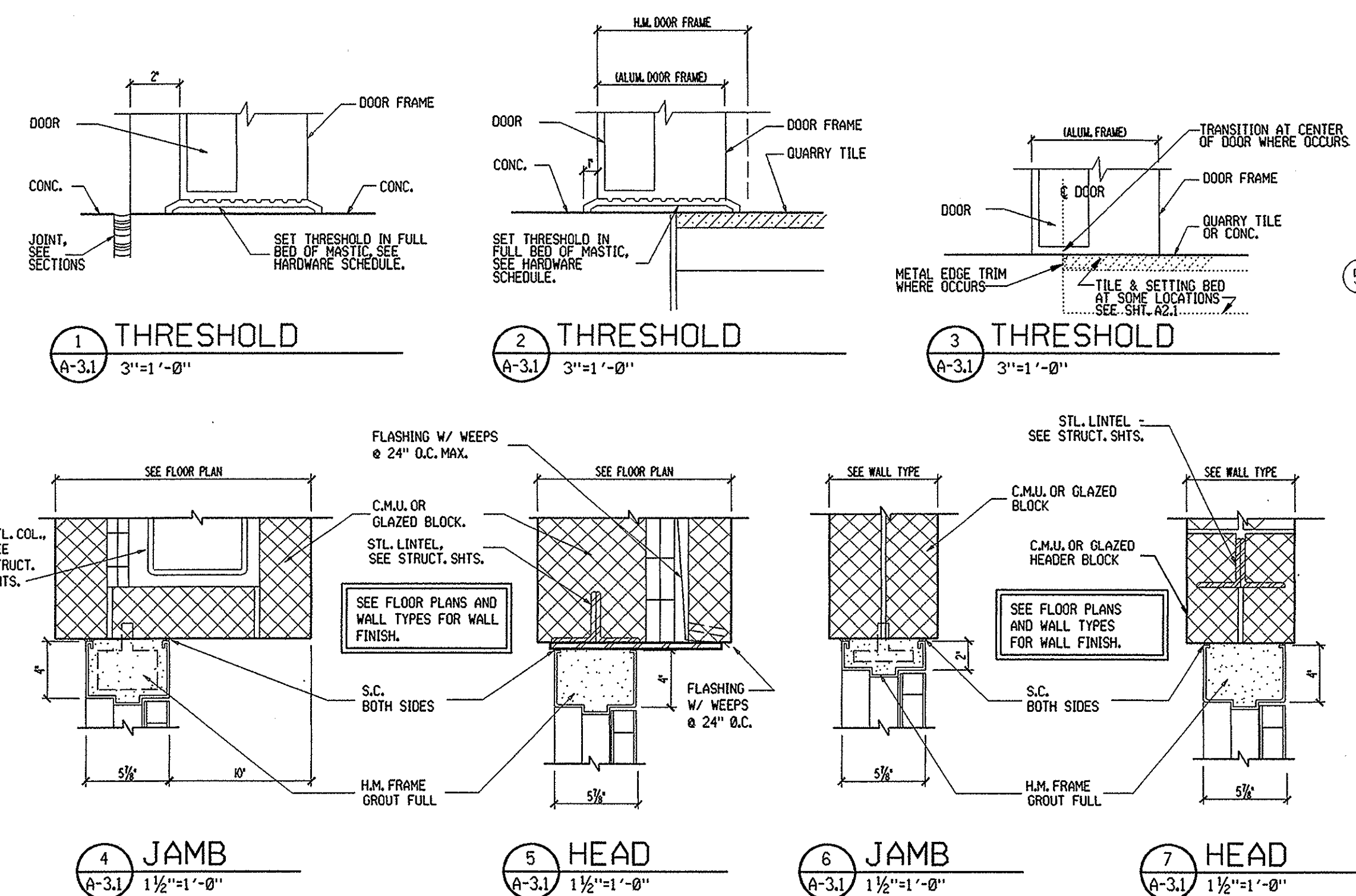
DATE:
AUGUST, 2004

BID/CONSTRUCTION SET

A-2.1

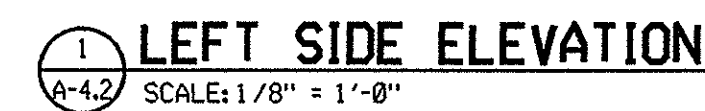
DOOR SCHEDULE												
NO.	DOOR SIZE W x H x T	TYPE	MAT'L	FRAME	HEAD	JAMB	SILL	FUNCTION	CLOSER	GROUP	REMARKS	
01	PR 3'-0" x 7'-0" x 1 3/4"	C	ALUM/GL	ALUM	*	*	2/A-3.1	EGRESS	●	01	* SEE NOTE 10, 11, & 14. PROVIDE HOLD OPEN.	
02	PR 3'-0" x 7'-0" x 1 3/4"	C	ALUM/GL	ALUM	*	*	2/A-3.1	EGRESS	●	01	* SEE NOTE 10, 11, & 14. PROVIDE HOLD OPEN.	
03	PR 3'-0" x 7'-0" x 1 3/4"	B	HM	HM *	7/A-3.1	6/A-3.1	3/A-3.1	EGRESS	●	04	* SEE NOTE 13. PROVIDE HOLD OPEN.	
04	PR 3'-0" x 7'-0" x 1 3/4"	B	HM	HM *	7/A-3.1	6/A-3.1	3/A-3.1	EGRESS	●	04	* SEE NOTE 13. PROVIDE HOLD OPEN.	
05	3'-0" x 7'-0" x 1 3/4"	A	HM	HM *	7/A-3.1	6/A-3.1	2/A-3.1	-	●	07	* SEE NOTE 12, 14, & 15. PROVIDE HOLD OPEN.	
06	3'-0" x 7'-0" x 1 3/4"	B	HM	HM *	7/A-3.1	6/A-3.1	3/A-3.1	-	-	10	* SEE NOTE 12.	
07	3'-0" x 7'-0" x 1 3/4"	A	HM	HM *	7/A-3.1	6/A-3.1	3/A-3.1	PRIVACY	●	06	* SEE NOTE 13 & 15. PROVIDE HOLD OPEN.	
08	15'-4" x 10'-0" OVHD. GRILLE	E	MFG.	MFG.	9/A-3.1	8/A-3.1	-	MFG.	MFG.	-	SEE SPECIFICATIONS	
09	3'-0" x 7'-0" x 1 3/4"	A	HM	HM *	7/A-3.1	6/A-3.1	3/A-3.1	LOCKSET	-	11	* SEE NOTE 15.	
10	3'-0" x 7'-0" x 1 3/4"	A	HM	HM *	7/A-3.1	6/A-3.1	3/A-3.1	LOCKSET	●	05	* SEE NOTE 12 & 15.	
11	PR 3'-0" x 7'-0" x 1 3/4"	A	HM	HM *	5/A-3.1	4/A-3.1	1/A-3.1	LOCKSET	●	02	* SEE NOTE 12. PROVIDE HOLD OPEN.	
12	3'-0" x 7'-0" x 1 3/4"	D	HM	HM	7/A-3.1	6/A-3.1	3/A-3.1	LOCKSET	-	08		
13	3'-0" x 7'-0" x 1 3/4"	D	HM	HM	7/A-3.1	6/A-3.1	3/A-3.1	LOCKSET	-	08		
14	3'-0" x 7'-0" x 1 3/4"	B	HM	HM *	7/A-3.1	6/A-3.1	3/A-3.1	LOCKSET	-	09	* SEE NOTE 12 & 15.	
15	3'-0" x 7'-0" x 1 3/4"	D	HM	HM	7/A-3.1	6/A-3.1	3/A-3.1	LOCKSET	-	08		
16	3'-0" x 7'-0" x 1 3/4"	A	HM	HM *	7/A-3.1	6/A-3.1	3/A-3.1	LOCKSET	-	11	* SEE NOTE 15.	
17	PR 3'-0" x 7'-0" x 1 3/4"	A	HM	HM *	5/A-3.1	4/A-3.1	1/A-3.1	LOCKSET	●	02	* SEE NOTE 12. PROVIDE HOLD OPEN.	
18	NOT USED	-	-	-	-	-	-	-	-	-		
19	4'-0" x 10'-0" OVHD. GRILLE	E	MFG.	MFG.	9/A-3.1	8/A-3.1	-	MFG.	MFG.	-	SEE SPECIFICATIONS	
20	4'-0" x 10'-0" OVHD. GRILLE	E	MFG.	MFG.	9/A-3.1	8/A-3.1	-	MFG.	MFG.	-	SEE SPECIFICATIONS	
21	4'-0" x 10'-0" OVHD. GRILLE	E	MFG.	MFG.	9/A-3.1	8/A-3.1	-	MFG.	MFG.	-	SEE SPECIFICATIONS	
22	4'-0" x 10'-0" OVHD. GRILLE	E	MFG.	MFG.	9/A-3.1	8/A-3.1	-	MFG.	MFG.	-	SEE SPECIFICATIONS	
23	PR 3'-0" x 7'-0" x 1 3/4"	C	ALUM/GL	ALUM	*	*	2/A-3.1	EGRESS	●	01	* SEE NOTE 10, 11, & 14. PROVIDE HOLD OPEN.	
24	PR 3'-0" x 7'-0" x 1 3/4"	B	HM	HM *	7/A-3.1	6/A-3.1	3/A-3.1	EGRESS	●	04	* SEE NOTE 13. PROVIDE HOLD OPEN.	
25	PR 3'-0" x 7'-0" x 1 3/4"	B	HM	HM *	7/A-3.1	6/A-3.1	3/A-3.1	EGRESS	●	04	* SEE NOTE 13. PROVIDE HOLD OPEN.	
26	3'-0" x 7'-0" x 1 3/4"	A	HM	HM *	7/A-3.1	6/A-3.1	2/A-3.1	-	●	07	* SEE NOTE 12, 14, & 15. PROVIDE HOLD OPEN.	
27	3'-0" x 7'-0" x 1 3/4"	B	HM	HM *	7/A-3.1	6/A-3.1	3/A-3.1	-	-	10	* SEE NOTE 12.	
28	3'-0" x 7'-0" x 1 3/4"	A	HM	HM *	7/A-3.1	6/A-3.1	3/A-3.1	PRIVACY	●	06	* SEE NOTE 13 & 15. PROVIDE HOLD OPEN.	
29	PR 3'-0" x 7'-0" x 1 3/4"	C	ALUM/GL	ALUM	*	*	2/A-3.1	EGRESS	●	01	* SEE NOTE 10, 11, & 14. PROVIDE HOLD OPEN.	
30	PR 3'-0" x 7'-0" x 1 3/4"	C	ALUM/GL	ALUM	*	*	2/A-3.1	EGRESS	●	01	* SEE NOTE 10, 11, & 14. PROVIDE HOLD OPEN.	
31	3'-0" x 7'-0" x 1 3/4"	A	HM	HM *	7/A-3.1	6/A-3.1	3/A-3.1	LOCKSET	-	11	* SEE NOTE 15.	
32	3'-0" x 7'-0" x 1 3/4"	D	HM	HM	7/A-3.1	6/A-3.1	3/A-3.1	LOCKSET	-	08		
33	3'-0" x 7'-0" x 1 3/4"	B	HM	HM *	7/A-3.1	6/A-3.1	3/A-3.1	LOCKSET	-	09	* SEE NOTE 12 & 15.	
34	3'-0" x 7'-0" x 1 3/4"	D	HM	HM	7/A-3.1	6/A-3.1	3/A-3.1	LOCKSET	-	08		
35	3'-0" x 7'-0" x 1 3/4"	A	HM	HM *	7/A-3.1	6/A-3.1	3/A-3.1	LOCKSET	-	11	* SEE NOTE 15.	
36	PR 3'-0" x 7'-0" x 1 3/4"	A	HM	HM *	5/A-3.1	4/A-3.1	1/A-3.1	LOCKSET	●	02	* SEE NOTE 12. PROVIDE HOLD OPEN.	
37	3'-0" x 7'-0" x 1 3/4"	D	HM	HM	7/A-3.1	6/A-3.1	3/A-3.1	LOCKSET	-	08		
38	4'-0" x 10'-0" OVHD. GRILLE	E	MFG.	MFG.	9/A-3.1	8/A-3.1	-	MFG.	MFG.	-	SEE SPECIFICATIONS	
39	4'-0" x 10'-0" OVHD. GRILLE	E	MFG.	MFG.	9/A-3.1	8/A-3.1	-	MFG.	MFG.	-	SEE SPECIFICATIONS	
40	4'-0" x 10'-0" OVHD. GRILLE	E	MFG.	MFG.	9/A-3.1	8/A-3.1	-	MFG.	MFG.	-	SEE SPECIFICATIONS	
41	4'-0" x 10'-0" OVHD. GRILLE	E	MFG.	MFG.	9/A-3.1	8/A-3.1	-	MFG.	MFG.	-	SEE SPECIFICATIONS	
42	3'-0" x 7'-0" x 1 3/4"	A	HM	HM	7/A-3.1	6/A-3.1	1/A-3.1	LOCKSET	●	03		
43	10'-8" x 8'-0" OVHD. DOOR	-	-	-	-	-	-	LOCKING	-	-	SEE SPECIFICATIONS	

- DOOR NOTES:**
- CONTRACTOR TO COORDINATE FUNCTION & KEYING WITH OWNER.
 - ALL HARDWARE AND ACCESSORIES SHALL MEET THE REQUIREMENTS OF THE A.D.A.A.G. PROVIDE LEVER TYPE HANDLES.
 - ALL HARDWARE SHALL PROVIDE FREE ACCESS IN THE EGRESS DIRECTION AT ALL TIMES.
 - ALL DOORS, FRAMES, HARDWARE AND ACCESSORIES SHALL BE INSTALLED PER MFG.'S SPECIFICATIONS.
 - ALL DOOR FRAMES TO HAVE 3 SILENCERS EACH.
 - ALL EXTERIOR DOORS TO BE INSULATED AND PROVIDED WITH WEATHERSTRIPPING, U.N.O.
 - PROVIDE METAL FLOOR TRANSITION STRIPS AS REQ'D U.N.O. SEE FINISH SCHEDULE.
 - HM DOORS AND/OR FRAMES TO BE PAINTED.
 - ALL FIRE DOOR ASSEMBLIES (DOOR & FRAME) SHALL HAVE LABEL ATTACHED.
 - SEE WINDOW ELEVATIONS FOR ADDITIONAL INFORMATION & COORDINATION.
 - HANDICAP ELECTRIC DOOR OPENER, ENTER & EXIT.
 - PROVIDE KICK PLATE ON PUSH SIDE ONLY.
 - PROVIDE KICK PLATE ON BOTH SIDES.
 - THRESHOLD TO MATCH FINISH FLOOR ELEVATION AFTER TILES HAVE BEEN SET IN PLACE.
 - THRESHOLD SHALL COMPLY WITH THE A.D.A.A.G.
 - PROVIDE 1" CLEAR UNDERCUT, COORDINATE WITH MECHANICAL SHEETS.

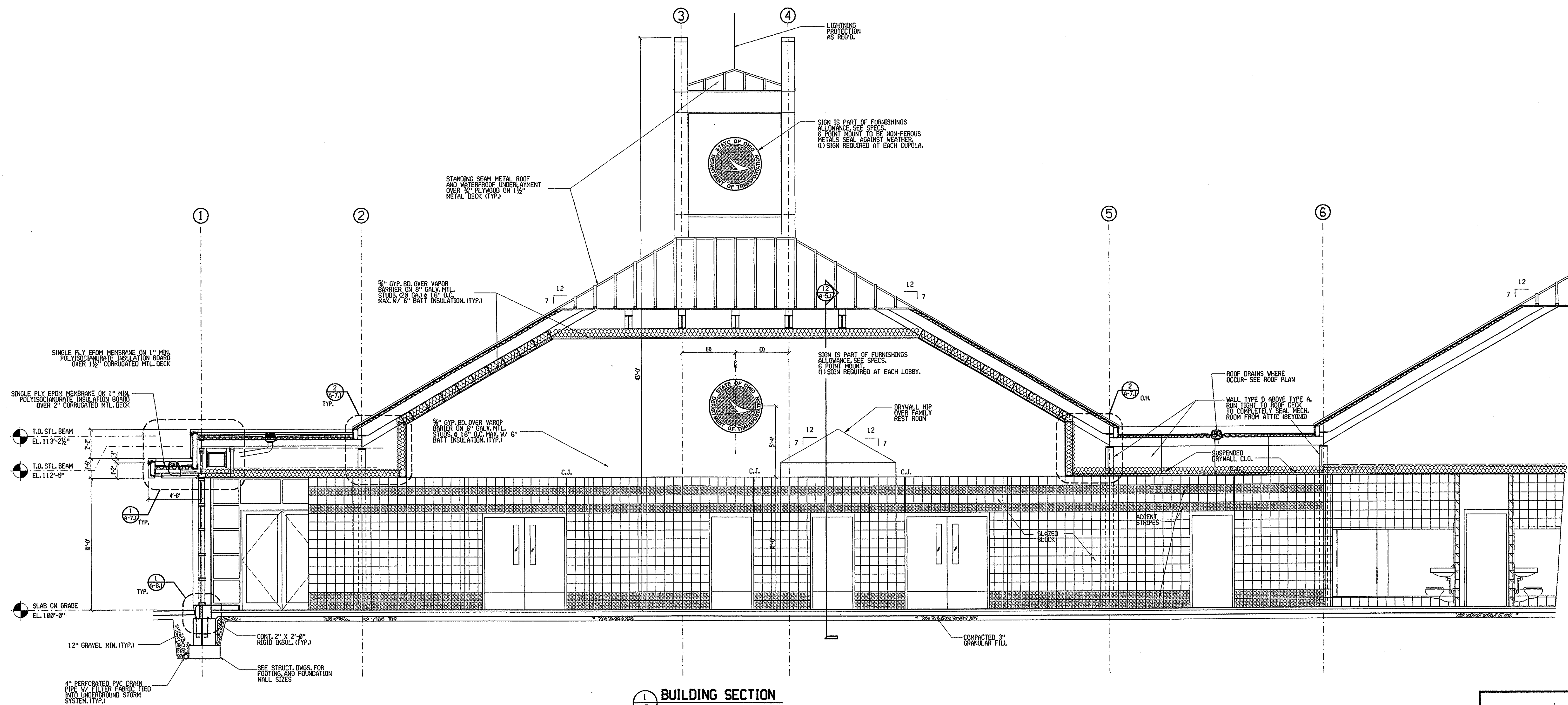


ROOM FINISH SCHEDULE												
NO.	DESIGNATION	FLOOR	BASE	WALLS				CEILING	CLG. HGT.	REMARKS		
100	VESTIBULE	Q.T.	GL.BL.	REAR	RIGHT	FRONT	LEFT					
101	VENDING	Q.T.	"	GL.BL.	GL.BL.	W.W.	W.W.	G.B./P.	9'-11 3/4"			
102	VESTIBULE	Q.T.	GL.BL.	-	GL.BL.	W.W.	W.W.	G.B./P.	9'-11 3/4"			
103	MEN	Q.T.	"	GL.BL.	GL.BL.	GL.BL.	GL.BL.	G.B./P.	9'-11 3/4"	* SEE NOTE 5.		
104	MEN	Q.T.	"	GL.BL.	GL.BL.	GL.BL.	GL.BL.	G.B./P.	9'-11 3/4"	* SEE NOTE 5.		
105	AREA	Q.T.	"	GL.BL.	GL.BL.	GL.BL.	GL.BL.	G.B./P.	9'-11 3/4"	* SEE NOTE 5.		
106	AREA	Q.T.	"	GL.BL.	GL.BL.	-	GL.BL.	G.B./P.	9'-11 3/4"			
107	MAP DISPLAY	Q.T.	"	GL.BL.	GL.BL.	-	GL.BL.	G.B./P.	9'-11 3/4"			
108	LOBBY	Q.T.	"	GL.BL.	W.W.	W.W.	W.W.	G.B./P.	VARIES			
109	FAMILY RESTROOM	Q.T.	"	GL.BL.	GL.BL.	GL.BL.	GL.BL.	G.B./P.	9'-11 3/4"	* SEE NOTE 5.		
110	JANITOR'S CLOSET	CONC./C.H.	"	GL.BL.	GL.BL.	GL.BL.	GL.BL.	G.B./P.	*7'-9"	* SUSPENDED DRYWALL CEILING SYSTEM		
111	SERVICE	CONC./C.H.	"	GL.BL.	GL.BL.	GL.BL.	GL.BL.	G.B./P.	9'-11 3/4"			
112	WOMEN	Q.T.	"	GL.BL.	GL.BL.	GL.BL.	GL.BL.	G.B./P.	9'-11 3/4"	* SEE NOTE 5.		
113	WOMEN	Q.T.	"	GL.BL.	GL.BL.	GL.BL.	GL.BL.	G.B./P.	9'-11 3/4"	* SEE NOTE 5.		
114	AREA	Q.T.	"	GL.BL.	GL.BL.	GL.BL.	GL.BL.	G.B./P.	9'-11 3/4"	* SEE NOTE 5.		
115	AREA	Q.T.	"	GL.BL.	GL.BL.	-	GL.BL.	G.B./P.	9'-11 3/4"			
116	DISPLAY	Q.T.	"	-	GL.BL.	-	GL.BL.	G.B./P.	9'-11 3/4"			
117	CHASE	CONC./C.H.	C.M.U.	C.M.U.	C.M.U.	C.M.U.	C.M.U.	G.B./P.	9'-11 3/4"	PROVIDE 6" BATT INSUL W/WHITE POLYETHYLENE SCUM VAPOR BARRIER AT ROOF DECK.		
118	MECHANICAL	CONC./C.H.	C.M.U.	C.M.U.	C.M.U.	C.M.U.	C.M.U.					
119	CHASE	CONC./C.H.	C.M.U.	C.M.U.	C.M.U.	C.M.U.	C.M.U.	G.B./P.	9'-11 3/4"			
120	VESTIBULE	CONC./C.H.	C.M.U.	C.M.U.	C.M.U.	C.M.U.	C.M.U.	G.B./P.	9'-11 3/4"			
121	NOT USED											
122	VESTIBULE	Q.T.	"	-	GL.BL.	W.W.	W.W.	G.B./P.	9'-11 3/4"			
123	MEN	Q.T.	"	GL.BL.	GL.BL.	GL.BL.	GL.BL.	G.B./P.	9'-11 3/4"	* SEE NOTE 5.		
124	MEN	Q.T.	"	GL.BL.	GL.BL.	GL.BL.	GL.BL.	G.B./P.	9'-11 3/4"	* SEE NOTE 5.		
125	AREA	Q.T.	"	GL.BL.	GL.BL.	GL.BL.	GL.BL.	G.B./P.	9'-11 3/4"	* SEE NOTE 5.		
126	AREA	Q.T.	"	GL.BL.	GL.BL.	-	GL.BL.	G.B./P.	9'-11 3/4"			
127	MAP DISPLAY	Q.T.	"	GL.BL.	GL.BL.	-	GL.BL.	G.B./P.	9'-11 3/4"			
128	LOBBY	Q.T.	"	GL.BL.	W.W.	W.W.	W.W.	G.B./P.	VARIES			
129	FAMILY RESTROOM	Q.T.	"	GL.BL.	GL.BL.	GL.BL.	GL.BL.	G.B./P.	9'-11 3/4"	* SEE NOTE 5.		
130	JANITOR'S CLOSET	CONC./C.H.	"	GL.BL.	GL.BL.	GL.BL.	GL.BL.	G.B./P.	*7'-9"	* SUSPENDED DRYWALL CEILING SYSTEM		
131	SERVICE	CONC./C.H.	"	GL.BL.	GL.BL.	GL.BL.	GL.BL.	G.B./P.	9'-11 3/4"			
132	WOMEN	Q.T.	"	GL.BL.	GL.BL.	GL.BL.	GL.BL.	G.B./P.	9'-11 3/4"	* SEE NOTE 5.		
133	WOMEN	Q.T.	"	GL.BL.	GL.BL.	GL.BL.	GL.BL.	G.B./P.	9'-11 3/4"	* SEE NOTE 5.		
134	AREA	Q.T.	"	GL.BL.	GL.BL.	GL.BL.	GL.BL.	G.B./P.	9'-11 3/4"	* SEE NOTE 5.		
135	AREA	Q.T.	"	GL.BL.	GL.BL.	-	GL.BL.	G.B./P.	9'-11 3/4"	* SEE NOTE 5.		
136	VESTIBULE	Q.T.	"	-	W.W.	W.W.	W.W.	G.B./P.	9'-11 3/4"			
137	VENDING	Q.T.	"	GL.BL.	GL.BL.	W.W.	GL.BL.	G.B./P.	9'-11 3/4"			
138	VESTIBULE	Q.T.	"	-	W.W.	W.W.	GL.BL.	G.B./P.	9'-11 3/4"			
139	CHASE	CONC./C.H.	C.M.U.	C.M.U.	C.M.U.	C.M.U.	C.M.U.	G.B./P.	9'-11 3/4"			
140	VESTIBULE	CONC./C.H.	C.M.U.	C.M.U.	C.M.U.	C.M.U.	C.M.U.	G.B./P.	9'-11 3/4"			
141	CHASE	CONC./C.H.	C.M.U.	C.M.U.	C.M.U.	C.M.U.	C.M.U.	G.B./P.	9'-11 3/4"			
142	MAINTENANCE SHED	CONC./C.H.	C.M.U.	C.M.U.	C.M.U.	C.M.U.	C.M.U.	EXPOSED/P.	VARIES			
M01	MEZZANINE	CONC./T.C.W.	C.M.U.	M.R.G.B./P	M.R.G.B./P	M.R.G.B./P	M.R.G.B./P	M.R.G.B./P	8'-0"			
M02	MEZZANINE	CONC./T.C.W.	C.M.U.	M.R.G.B./P	M.R.G.B./P	M.R.G.B./P	M.R.G.B./P	M.R.G.B./P	8'-0"			

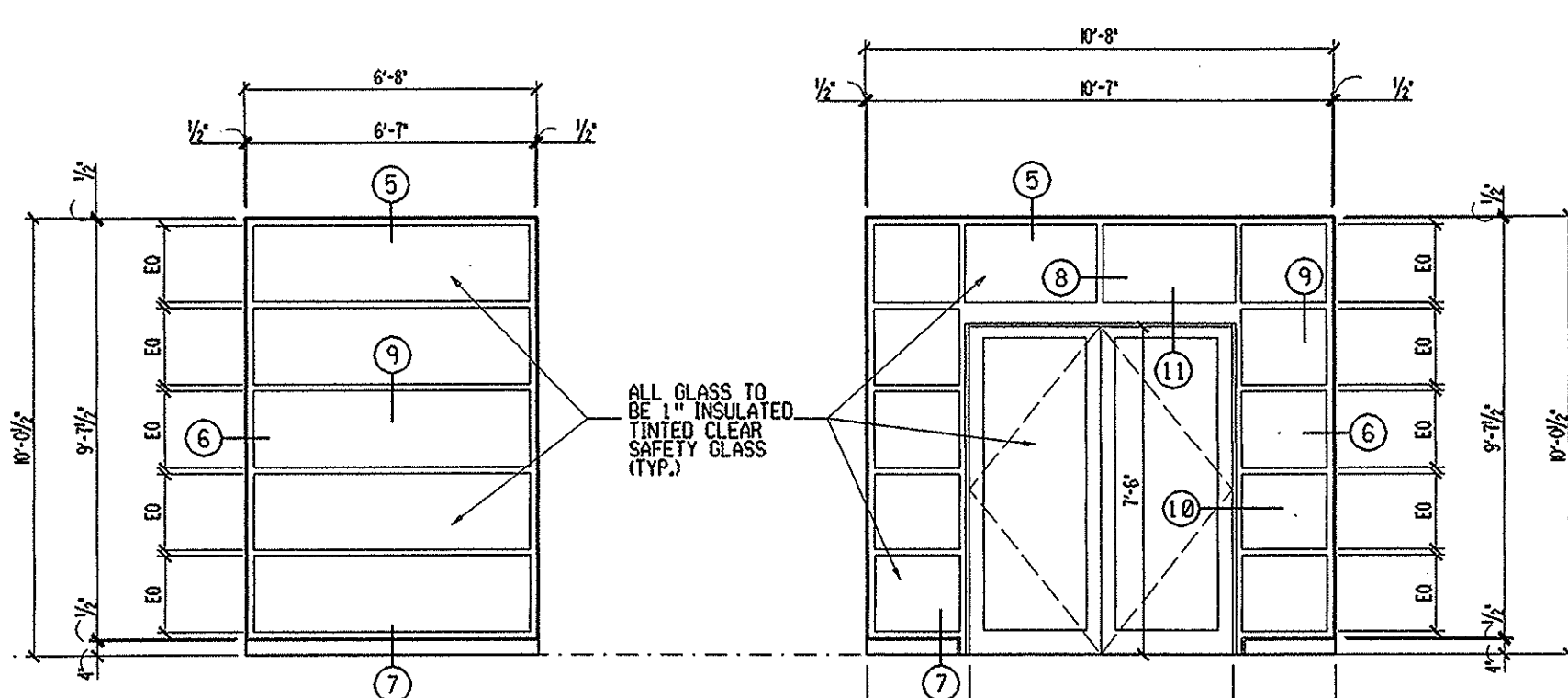
- FINISH NOTES:**
- PROVIDE VINYL OR METAL FLOOR TRANSITION STRIPS AS REQ'D U.N.O. (SEE SPECS OF FLOOR MATERIALS).
 - INTERIOR EXPOSED CONC. FLOORS WITH SAW CUT CONTROL JOINTS TO BE FILLED W/ LATEX JOINT FILLER.
 - INSTALL PER MFG. RECOMMENDATIONS. PROVIDE FOR PERIMETER EXPANSION AS REQUIRED.



$\frac{1}{8}'' = 1' - 0''$					
CONSULTING ARCHITECTS & ENGINEERS ARCHITECT: OFFICE OF THE STATE ARCHITECT MECHANICAL, ELECTRICAL & STRUCTURAL: SRA, INC. SITE/CIVIL: KZF DESIGN LANDSCAPE ARCHITECTURE: KINZELMAN KLINE					
REVISIONS					
NO.	DATE	DESCRIPTION			
FOR: OHIO DEPT. OF TRANSPORTATION					
DRAWING DESCRIPTION: EXTERIOR ELEVATIONS					
PROJECT NO. 770-2003-074 I-70 / LICKING COUNTY REST AREA					
STATE OF OHIO DEPARTMENT OF ADMINISTRATIVE SERVICES GENERAL SERVICES DIVISION PREPARED BY GENERAL SERVICES DIVISION OFFICE OF THE STATE ARCHITECT					
PLOT DATE:	DATE:				
13-JUL-2004	AUGUST, 2004				
A - 4.2					



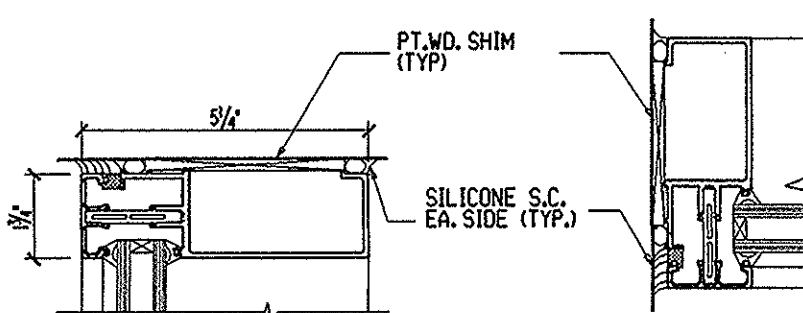
1 BUILDING SECTION
SCALE: 1/4" = 1'-0"



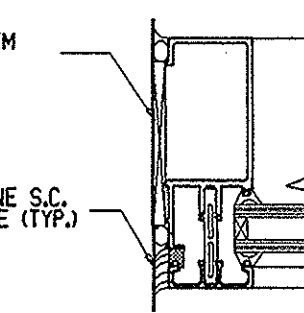
2 ELEVATION
SCALE: 1/4" = 1'-0"

3 ELEVATION
SCALE: 1/4" = 1'-0"

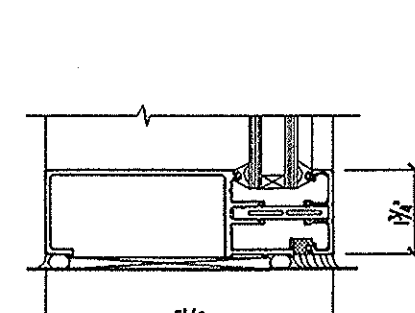
4 NOT USED
SCALE: 1/4" = 1'-0"



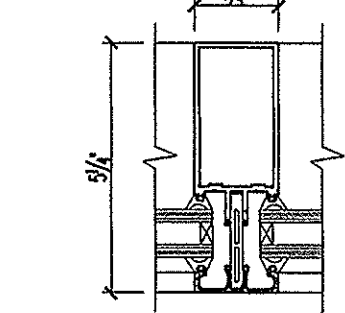
5 DETAIL
SCALE: 3" = 1'-0"



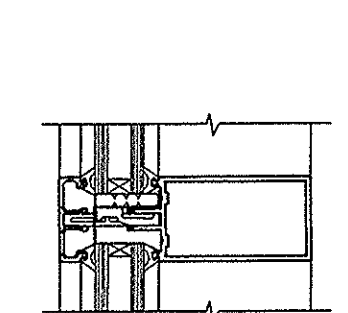
6 DETAIL
SCALE: 3" = 1'-0"



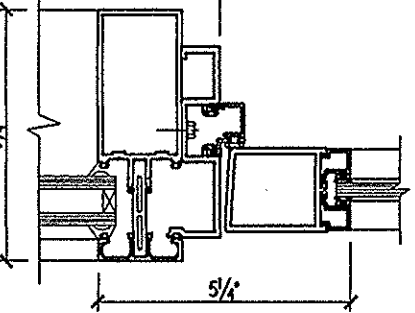
7 DETAIL
SCALE: 3" = 1'-0"



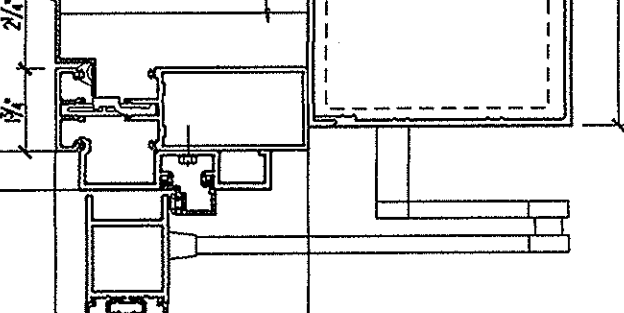
8 DETAIL
SCALE: 3" = 1'-0"



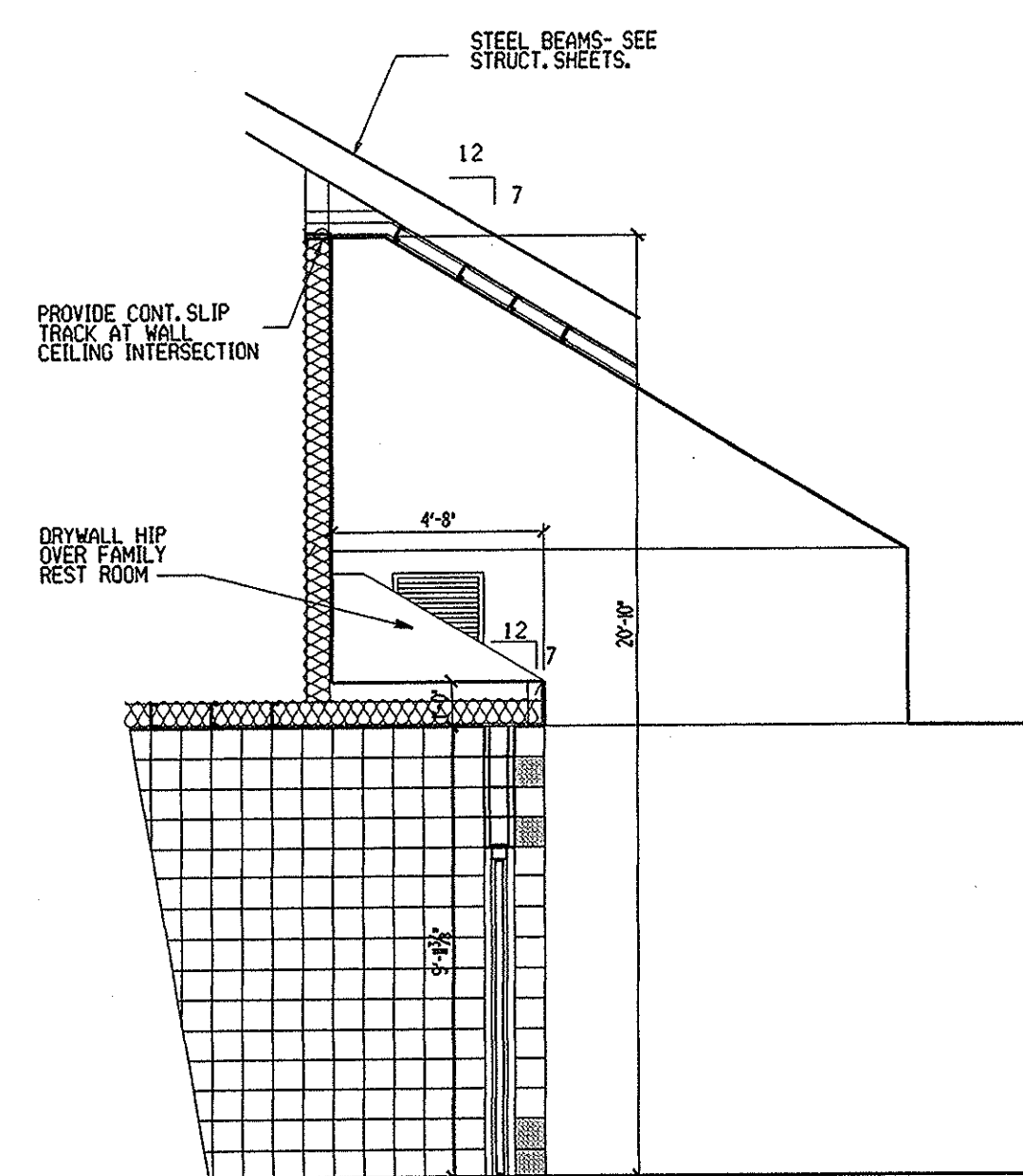
9 DETAIL
SCALE: 3" = 1'-0"



10 DETAIL
SCALE: 3" = 1'-0"



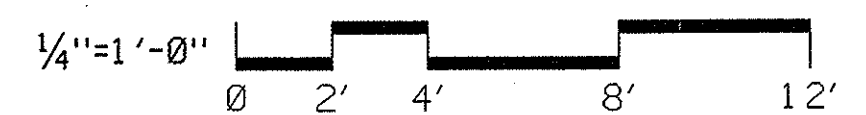
11 DETAIL
SCALE: 3" = 1'-0"



12 PARTIAL SECTION
SCALE: 1/4" = 1'-0"

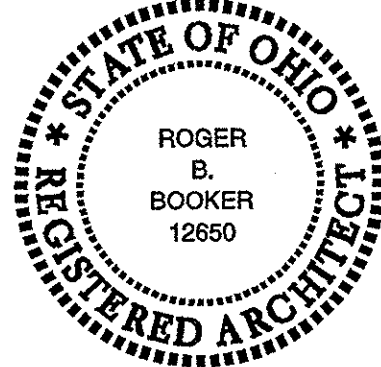
WINDOW NOTES:

- REGARDLESS OF GLASS TYPE SHOWN ON DWS, GLASS TYPES SHALL COMPLY WITH GOVERNING CODES, ETC. ALL GLASS TO BE HEAT STRENGTHENED UNLESS REQ'D. TO BE TEMPERED.
- THESE WINDOW DETAILS ARE BASED ON "VISTAWALL ARCHITECTURAL PRODUCTS" SERIES "HP-175" AND ARE FOR INTENT ONLY.
- ROUGH OPENINGS SHALL BE FIELD VERIFIED AND COORDINATED ALUM. COMPOSITE BLDG. PANELS. ACTUAL WINDOW UNIT DIMENSIONS SHALL BE DETERMINED BY WINDOW MANUFACTURER / INSTALLER. SEE SPECIFICATIONS.
- WINDOW MANUFACTURER / INSTALLER SHALL PROVIDE FRAME EXTENSIONS AND CLOSURES WHERE REQ'D. TO MEET THE INTENT ON THE CONTRACT DOCUMENTS.
- WINDOW MANUFACTURER / INSTALLER SHALL PROVIDE ALL ANCHORS AS REQUIRED TO SECURELY FASTEN WINDOW UNITS.



CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL & STRUCTURAL:
SRA, INC.
SITE/CIVIL:
KZF DESIGN
LANDSCAPE ARCHITECTURE:
KINZELMAN KLINE

REVISIONS		
NO.	DATE	DESCRIPTION



FOR:
OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
BUILDING SECTIONS

PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION

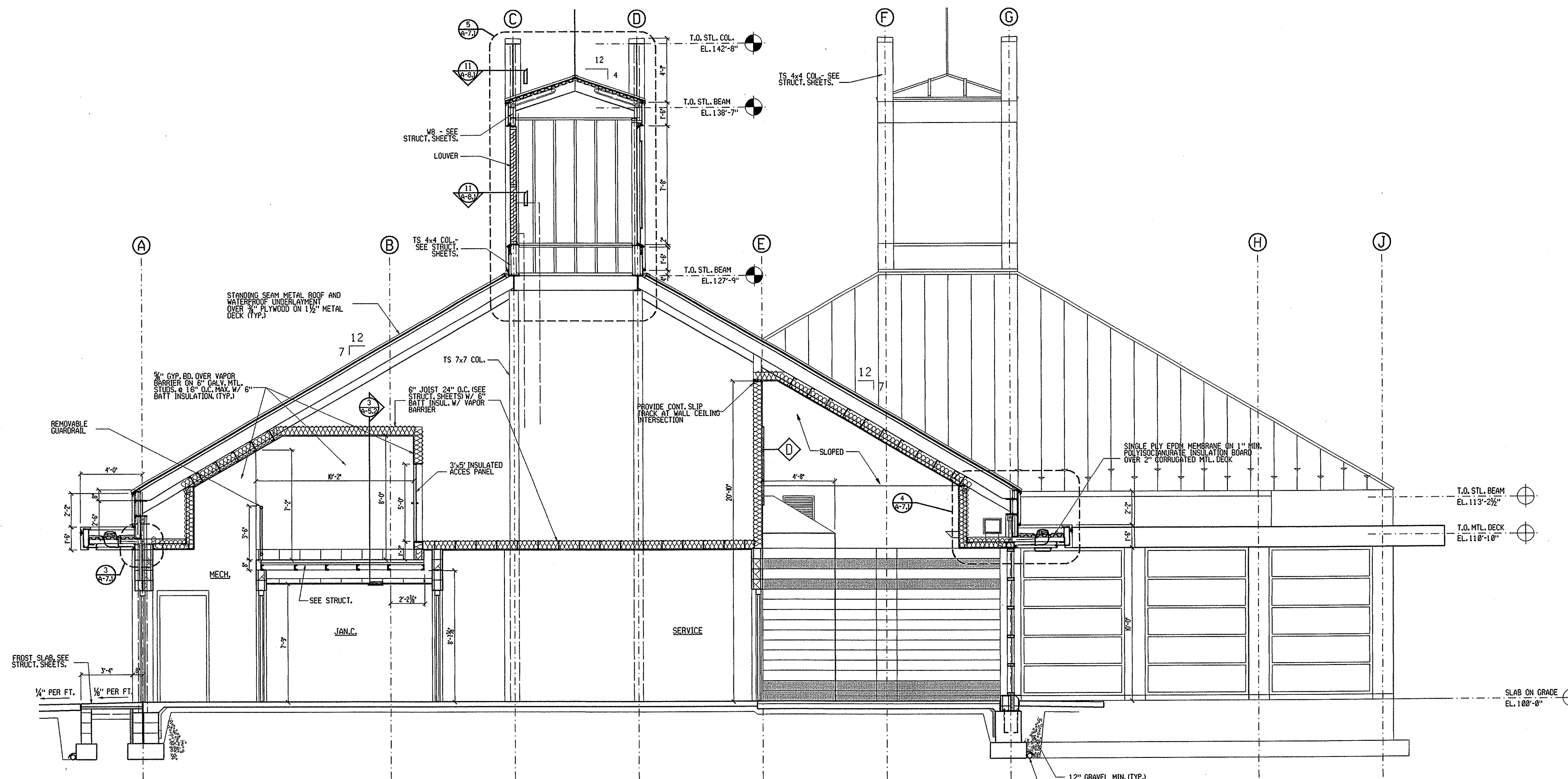
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLOT DATE:
13-JUL-2004

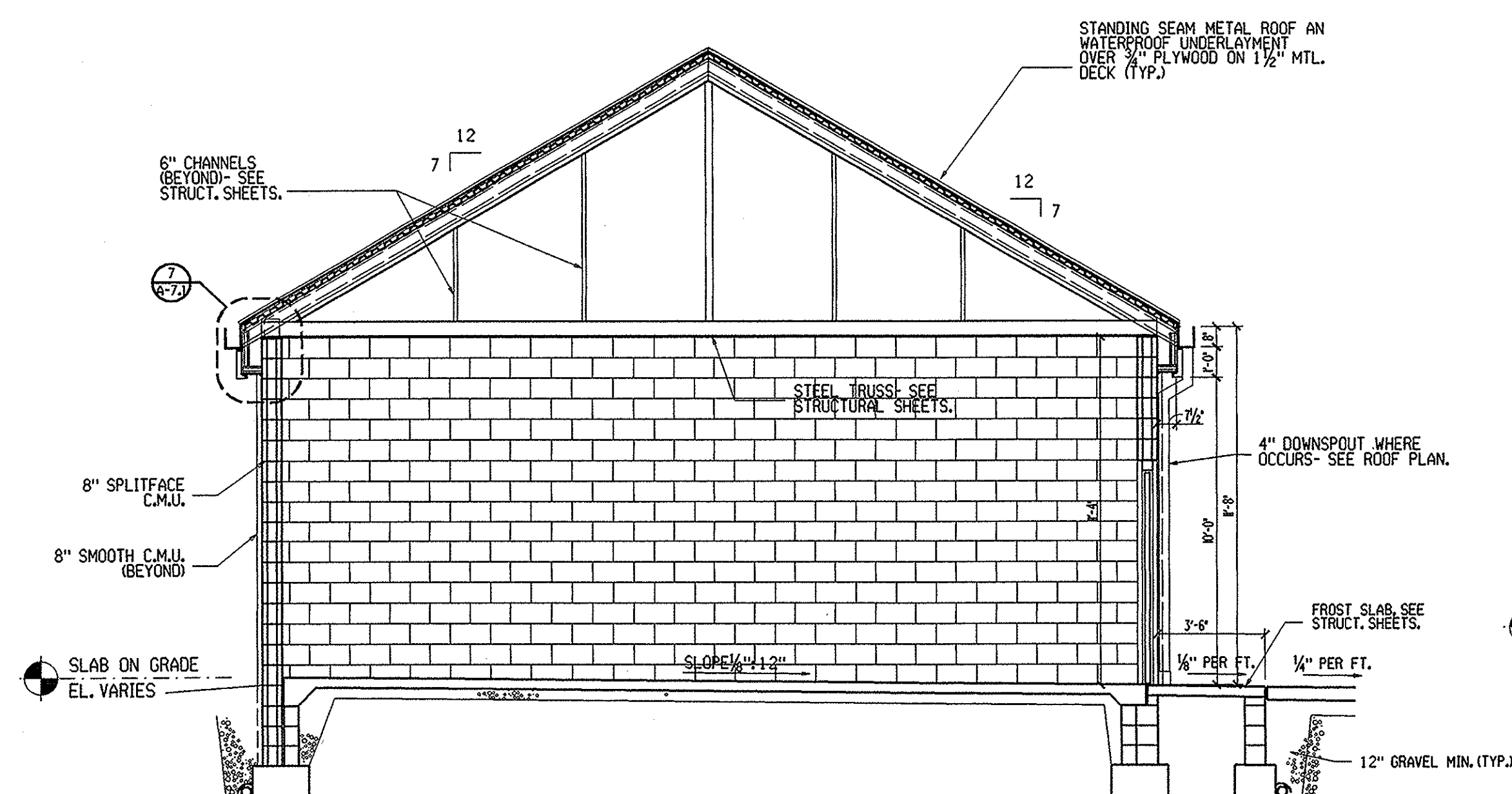
DATE:
AUGUST, 2004

A-5.1

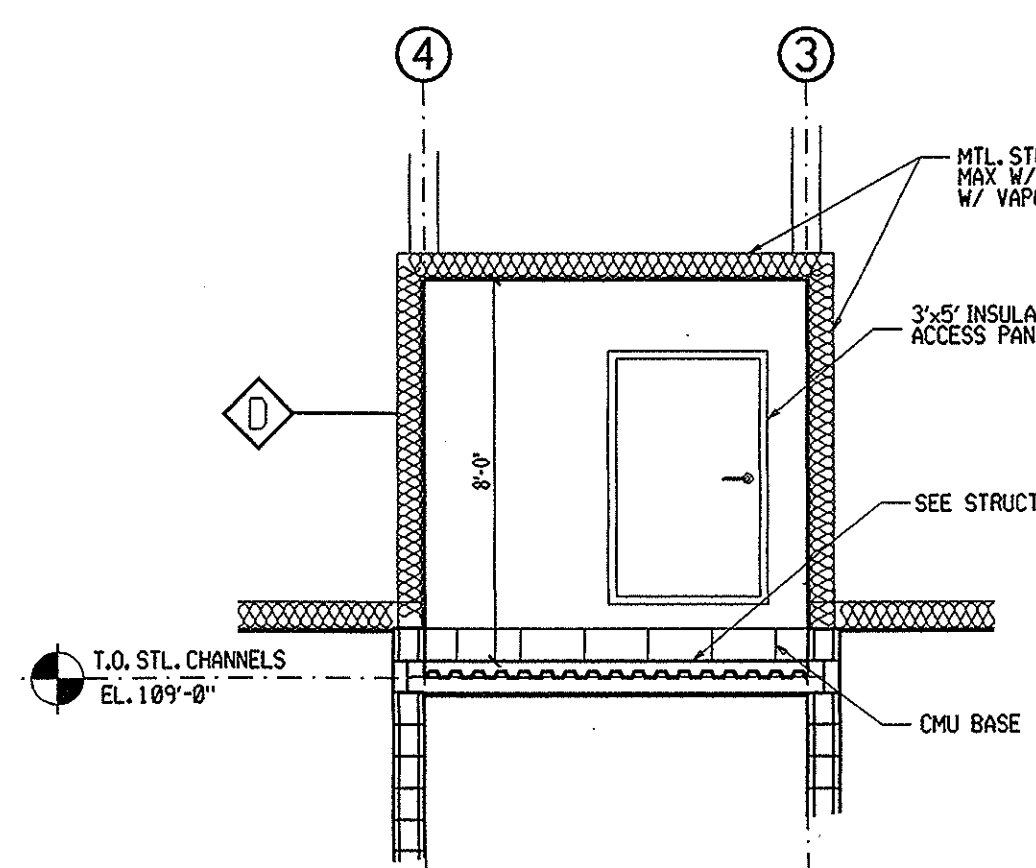
BID/CONSTRUCTION SET



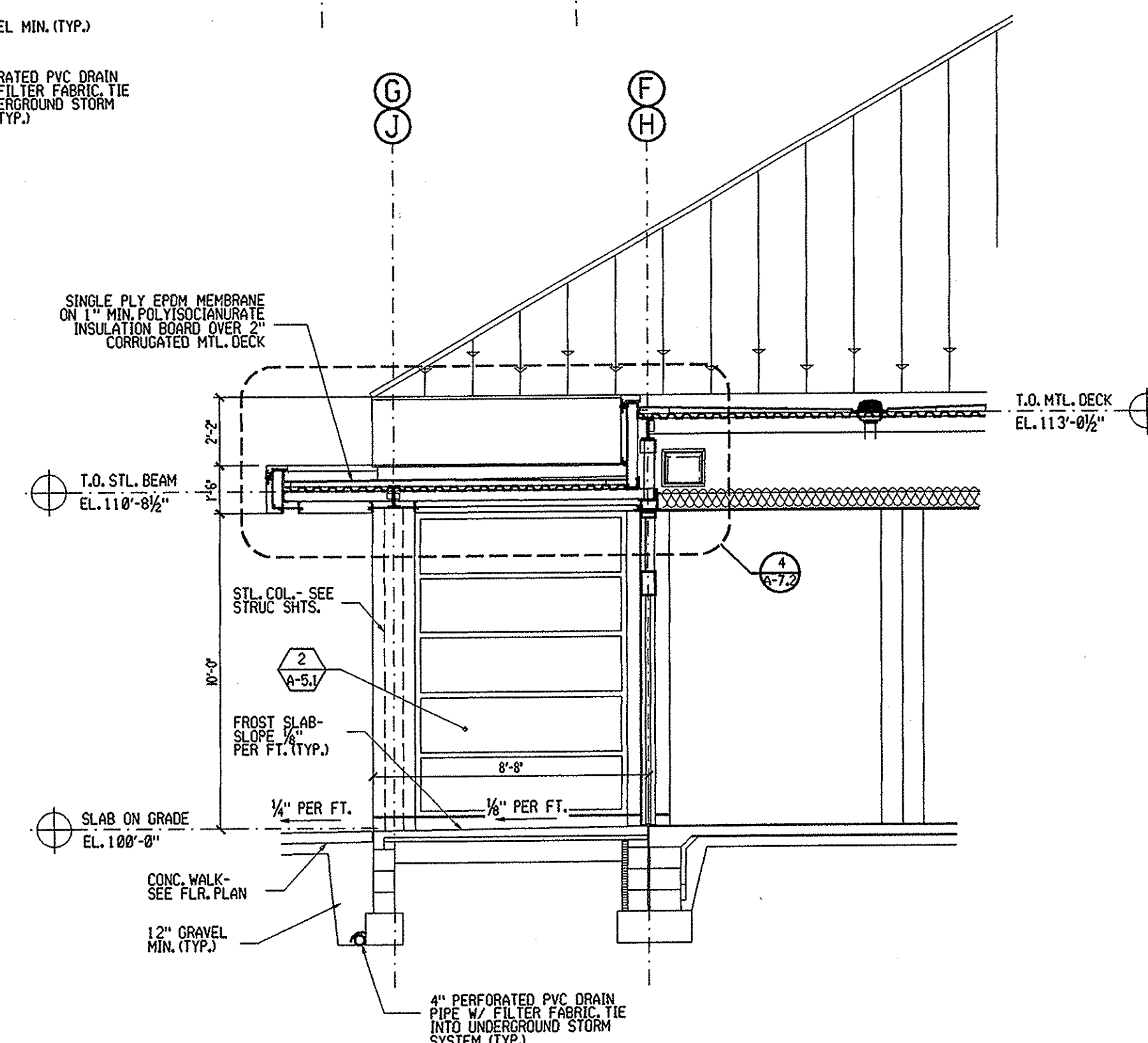
1 BUILDING SECTION
A-5.2 SCALE: 1/4" = 1'-0"



2 BUILDING SECTION
A-5.2 SCALE: 1/4" = 1'-0"

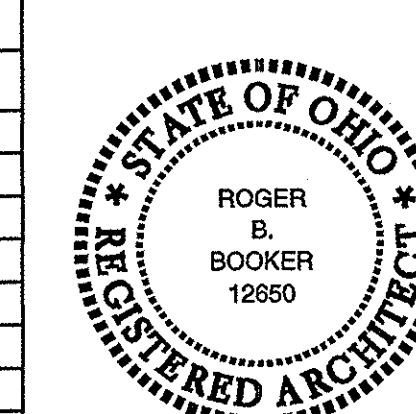


3 PARTIAL BLDG. SECTION
A-5.2 SCALE: 1/4" = 1'-0"

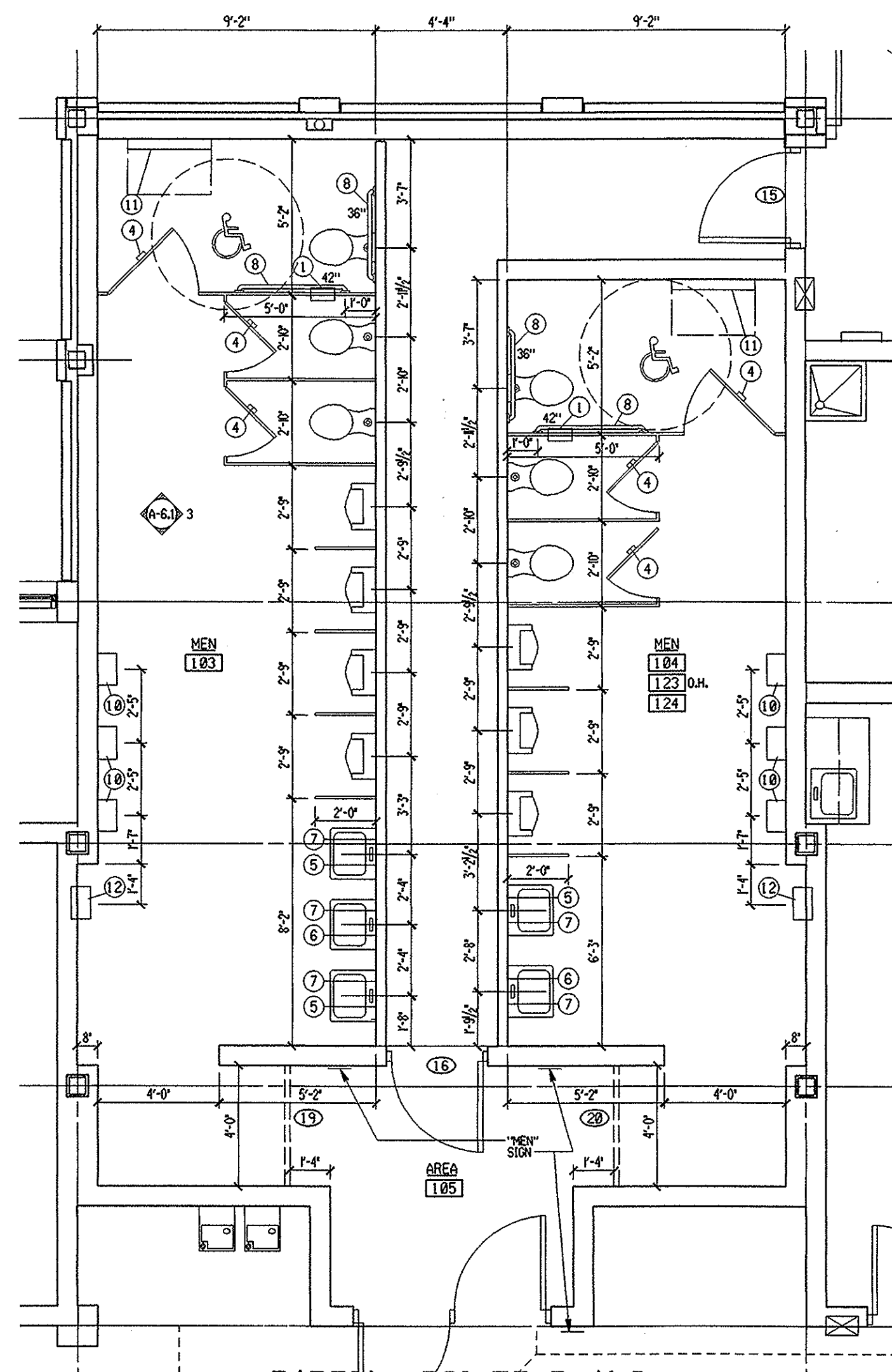


4 PARTIAL SECTION
A-5.2 SCALE: 1/4" = 1'-0"

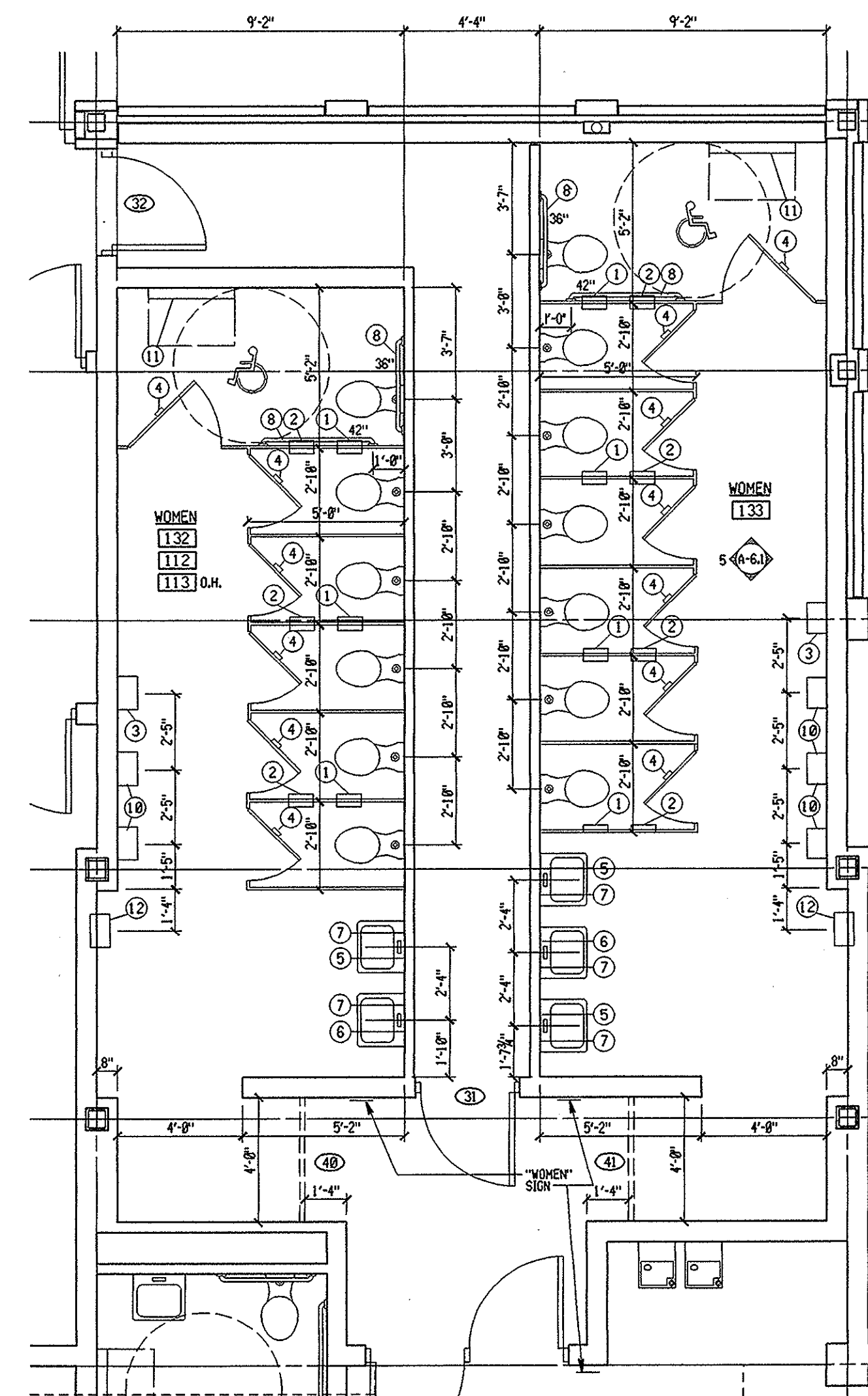
1/4"=1'-0" 0 2' 4' 8' 12'																																			
CONSULTING ARCHITECTS & ENGINEERS ARCHITECT: OFFICE OF THE STATE ARCHITECT MECHANICAL, ELECTRICAL & STRUCTURAL: SRA, INC. SITE/CIVIL: KZF DESIGN LANDSCAPE ARCHITECTURE: KINZELMAN KLINE																																			
REVISIONS <table> <tr> <th>NO.</th><th>DATE</th><th>DESCRIPTION</th></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>			NO.	DATE	DESCRIPTION																														
NO.	DATE	DESCRIPTION																																	
FOR: OHIO DEPT. OF TRANSPORTATION																																			
DRAWING DESCRIPTION: BUILDING SECTIONS																																			
PROJECT NO. 770-2003-074 I-70 / LICKING COUNTY REST AREA																																			
STATE OF OHIO DEPARTMENT OF ADMINISTRATIVE SERVICES GENERAL SERVICES DIVISION PREPARED BY: GENERAL SERVICES DIVISION OFFICE OF THE STATE ARCHITECT																																			
PLOT DATE: 13-JUL-2004	DATE: AUGUST, 2004	A-5.2																																	



BID/CONSTRUCTION SET



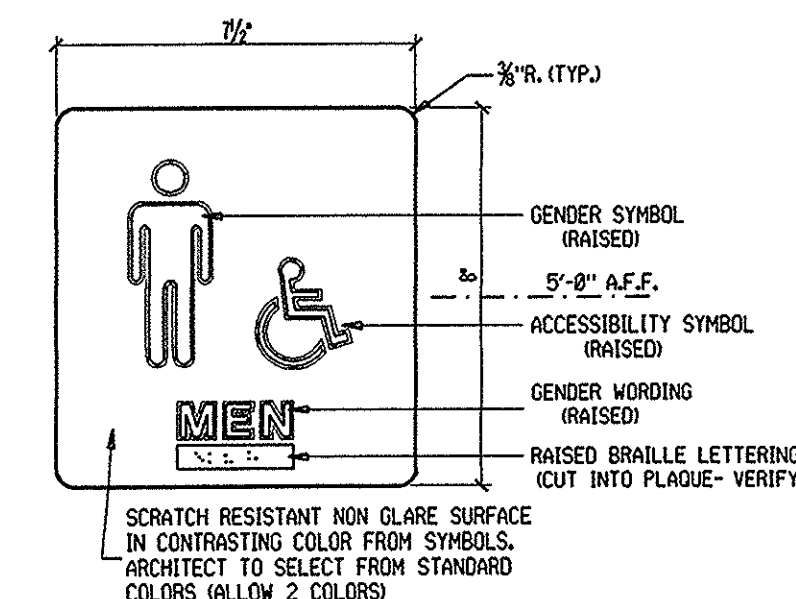
1 PARTIAL TOILET PLANS
A-6.1 SCALE: 1/4" = 1'-0"



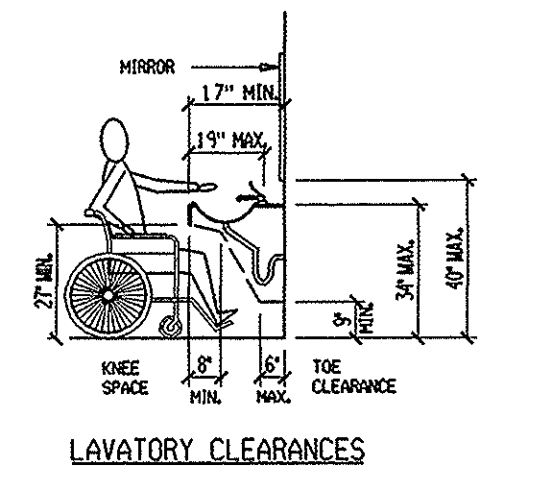
2 PARTIAL TOILET PLANS
A-6.1 SCALE: 1/4" = 1'-0"

ACCESSORY SCHEDULE				
NO.	DESCRIPTION	MFG. NO.	MOUNTING HEIGHTS	REMARKS
1	TOILET TISSUE DISPENSER	B-386	TOP @ 32"	2 COMPARTMENT
2	SANITARY NAPKIN DISPOSAL	B-4354	TOP @ 32"	2 COMPARTMENT
3	SANITARY NAPKIN DISPENSER	B-3500 25	TOP @ 51"	
4	FOLDING UTILITY SHELF	B-287	TOP @ 36"	
5	FRAMED MIRROR	B-166	BOT < 40"	TEMPERED GLASS (24x36)
6	FRAMED MIRROR	B-290	BOT < 40"	TEMPERED GLASS (24x36)
7	SOAP DISPENSER	ASI 0353 THRU WALL VALVE	CENTER @ 38"	AMERICAN SPECIALTIES INC.
8	STAINLESS STEEL GRAB BARS	B-6206	CENTER @ 35"	42" & 36" LONG
9	HANDICAP ACCESSIBILITY SIGN		CENTER @ 60"	SEE DETAIL '12/A 6.1'
10	HAND DRYER		CONTROL @ 44"	SEE ELECTRICAL SHEETS.
11	CHANGING TABLE	B-2200	TOP @ 52"	
12	PAPER WASTE BIN	B-3644	TOP @ 44"	

NOTES:
 1. MODEL #'S ARE BASED ON BOBRICK® AND ARE FOR INTENT ONLY.
 2. ALL DETAILS, DIMENSIONS, SPECIFICATIONS, HARDWARE, ACCESSORIES, ETC., WHERE REQ'D SHALL COMPLY W/ THE REQUIREMENTS OF THE D.B.C. ACCESSIBILITY GUIDELINES (A.D.A.).
 3. PROVIDE BLOCKING AS REQ'D. FOR ACCESSORIES SUCH AS GRAB BARS, ETC.
 4. PROVIDE & INSTALL FULLY FUNCTIONAL SOAP DISPENSER SYSTEM WITH ALL REQUIRED ACCESSORIES TO INCLUDE BUT NOT LIMITED TO: SOAP DISPENSING SYSTEM, RACK STAND, WIRE SOAP BASKET, PUMP KIT, AND CONNECTOR KIT FOR EACH SOAP DISPENSER. PROVIDED ONE SOAP SYSTEM BASKET FOR EVERY 4 SOAP DISPENSERS. THE RACK STAND IS TO BE LOCATED IN THE CHASE.
 5. LOCATION OF TOILET ACCESSORIES SHOULD NOT INTERFERE WITH OPERATION OF ANY ELECTRIC EYES. VERIFY LOCATIONS (ESPECIALLY HANDRAILS) WITH ELECTRICIAN.

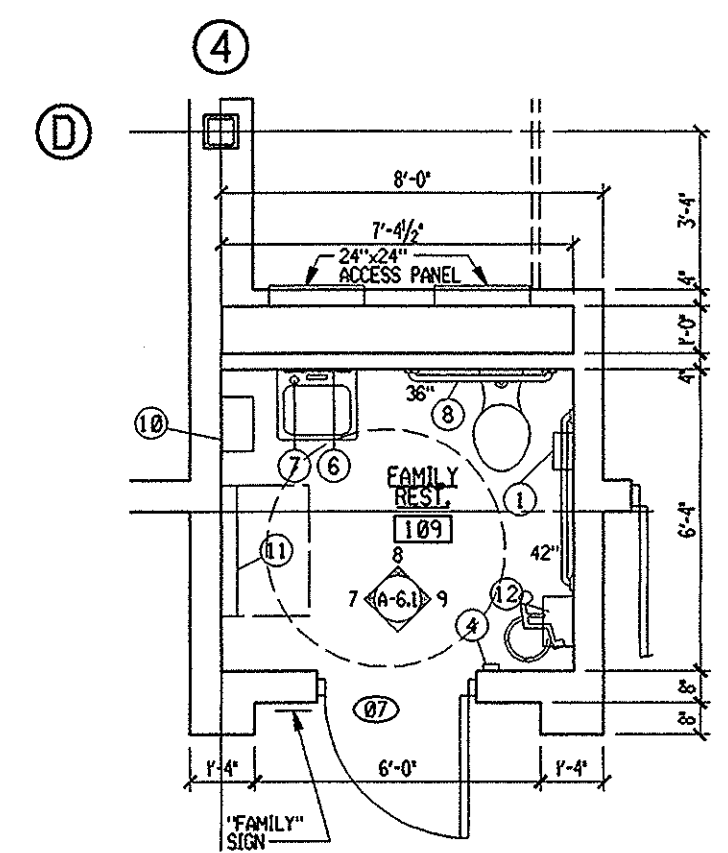


12 ACCESSIBILITY SIGN
A-6.1 SCALE: N.T.S.

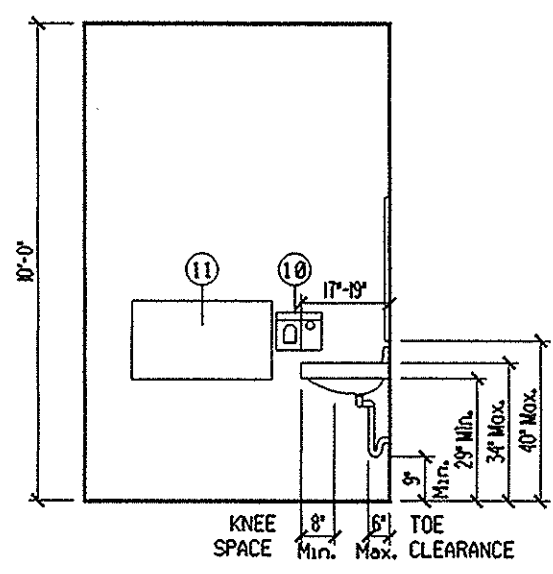


AT HANDICAP ACCESSIBLE LAVATORIES PROVIDE A.D.A.G. COMPLIANT INSULATION ON WATER LINES & WASTE PIPING (INCLUDING VALVES BELOW LAVATORIES).

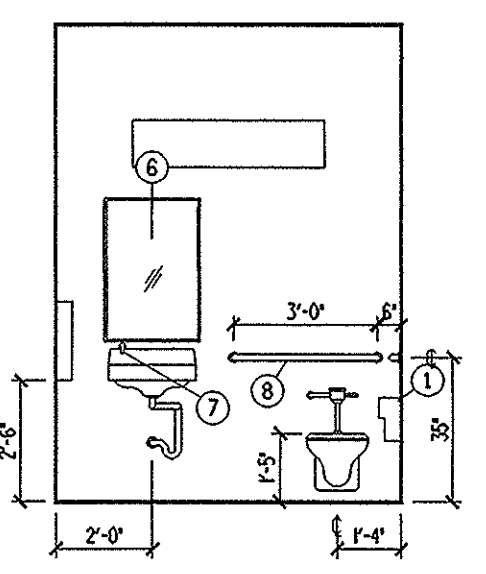
FIG. 3.4.203.1
SCALE: 1/4" = 1'-0"



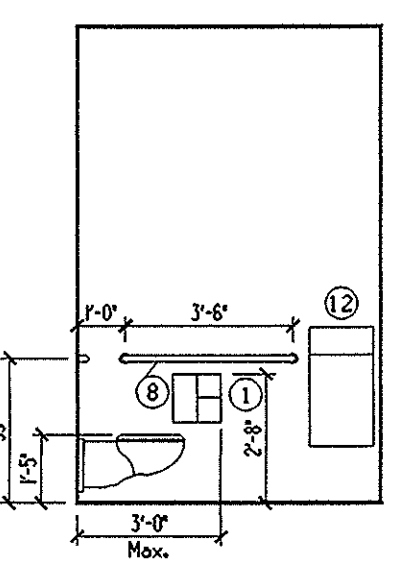
6 RESTROOM PLAN
A-6.1 SCALE: 1/4" = 1'-0"



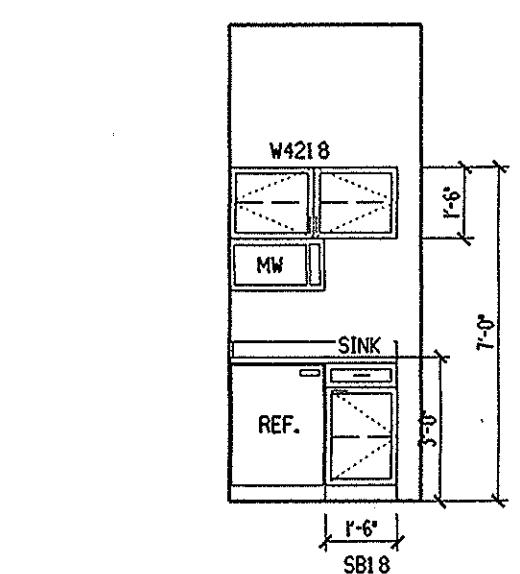
7 ELEVATION
A-6.1 SCALE: 1/4" = 1'-0"



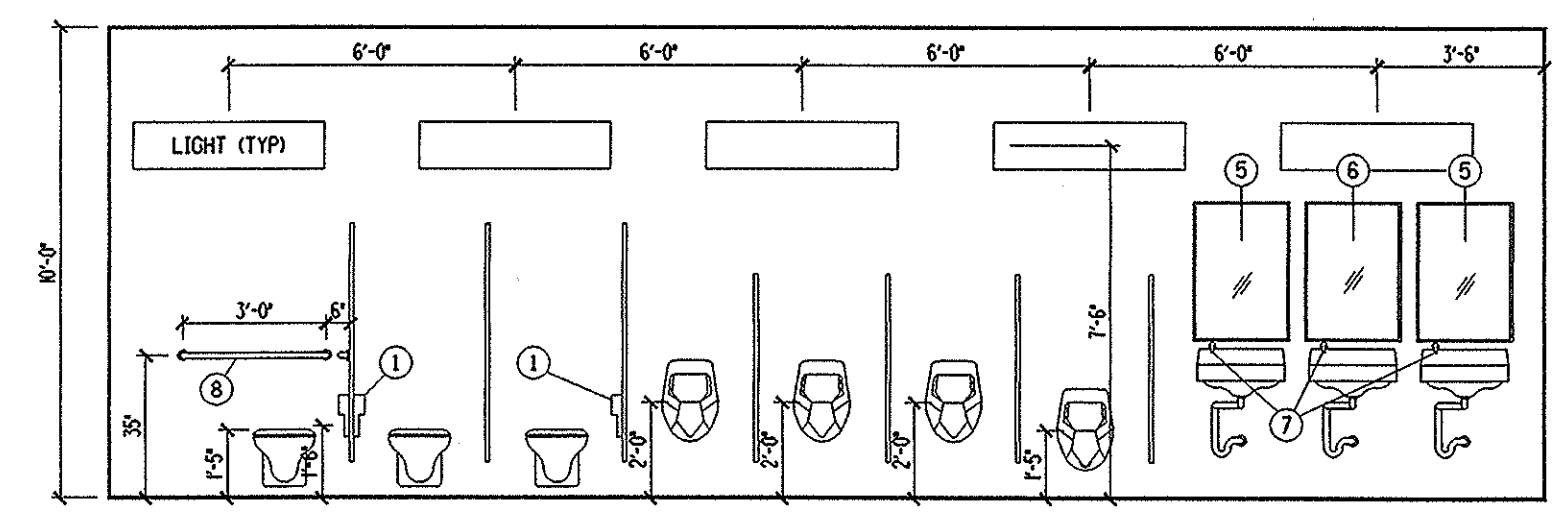
8 ELEVATION
A-6.1 SCALE: 1/4" = 1'-0"



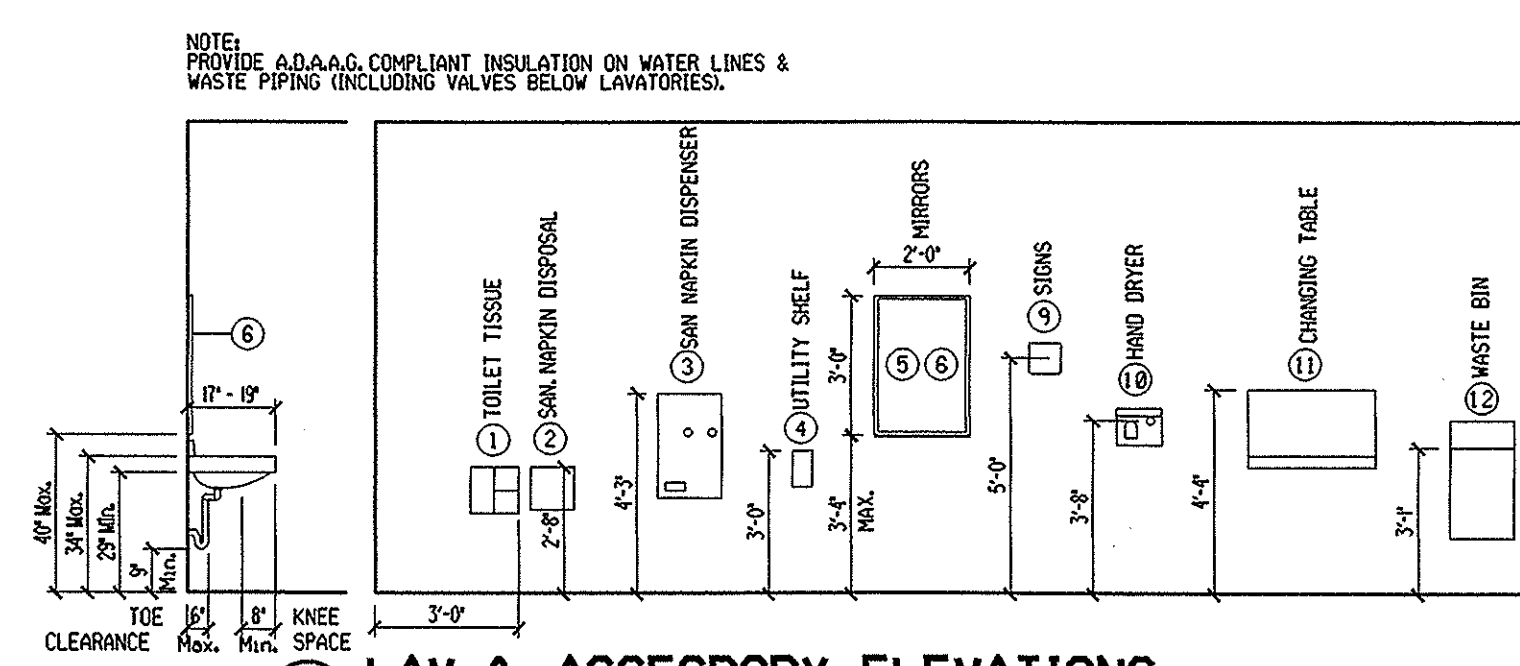
9 ELEVATION
A-6.1 SCALE: 1/4" = 1'-0"



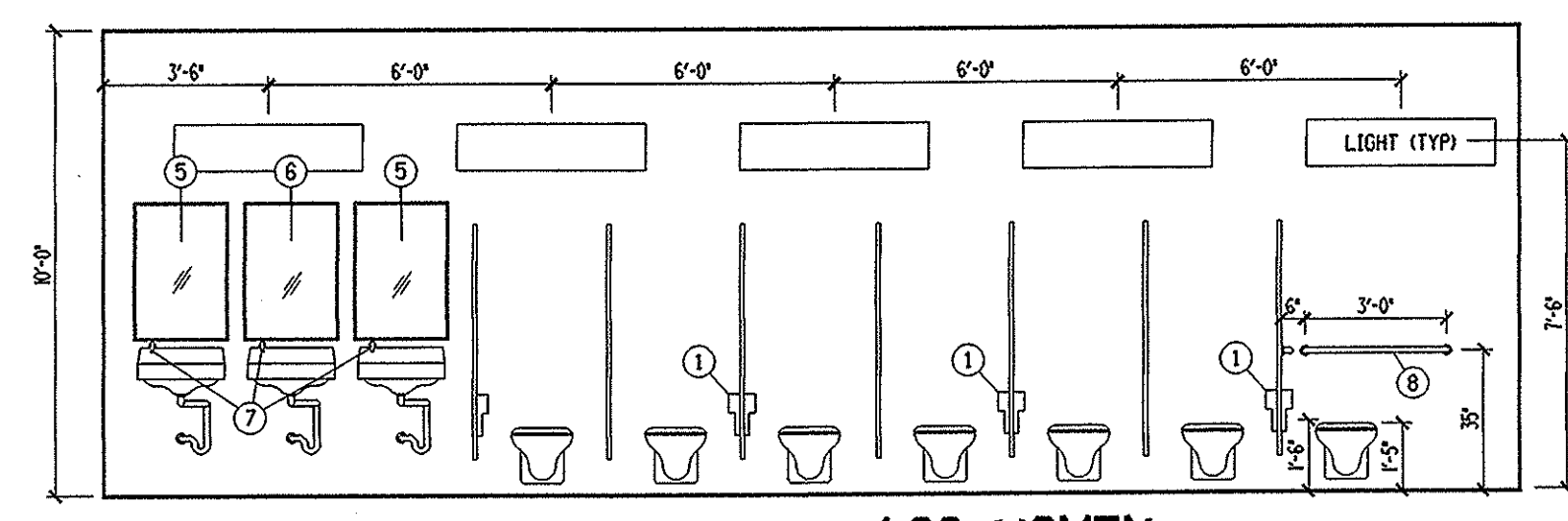
14 SERVICE KITCHENETTE
A-6.1 SCALE: 1/4" = 1'-0"



3 103 MEN
A-6.1 SCALE: 1/4" = 1'-0" 104, 123 & 124 SIMILAR



4 LAV & ACCESSORY ELEVATIONS
A-6.1 SCALE: 1/4" = 1'-0"



5 133 WOMEN
A-6.1 SCALE: 1/4" = 1'-0" 112, 113 & 132 SIMILAR

1/4" = 1'-0" 0 2' 4' 8' 12'

CONSULTING ARCHITECTS & ENGINEERS
 ARCHITECT: OFFICE OF THE STATE ARCHITECT
 MECHANICAL ELECTRICAL & STRUCTURAL: SRA, INC.
 SITE/CIVIL: KZF DESIGN
 LANDSCAPE ARCHITECTURE: KINZELMAN KLINE

REVISIONS		
NO.	DATE	DESCRIPTION

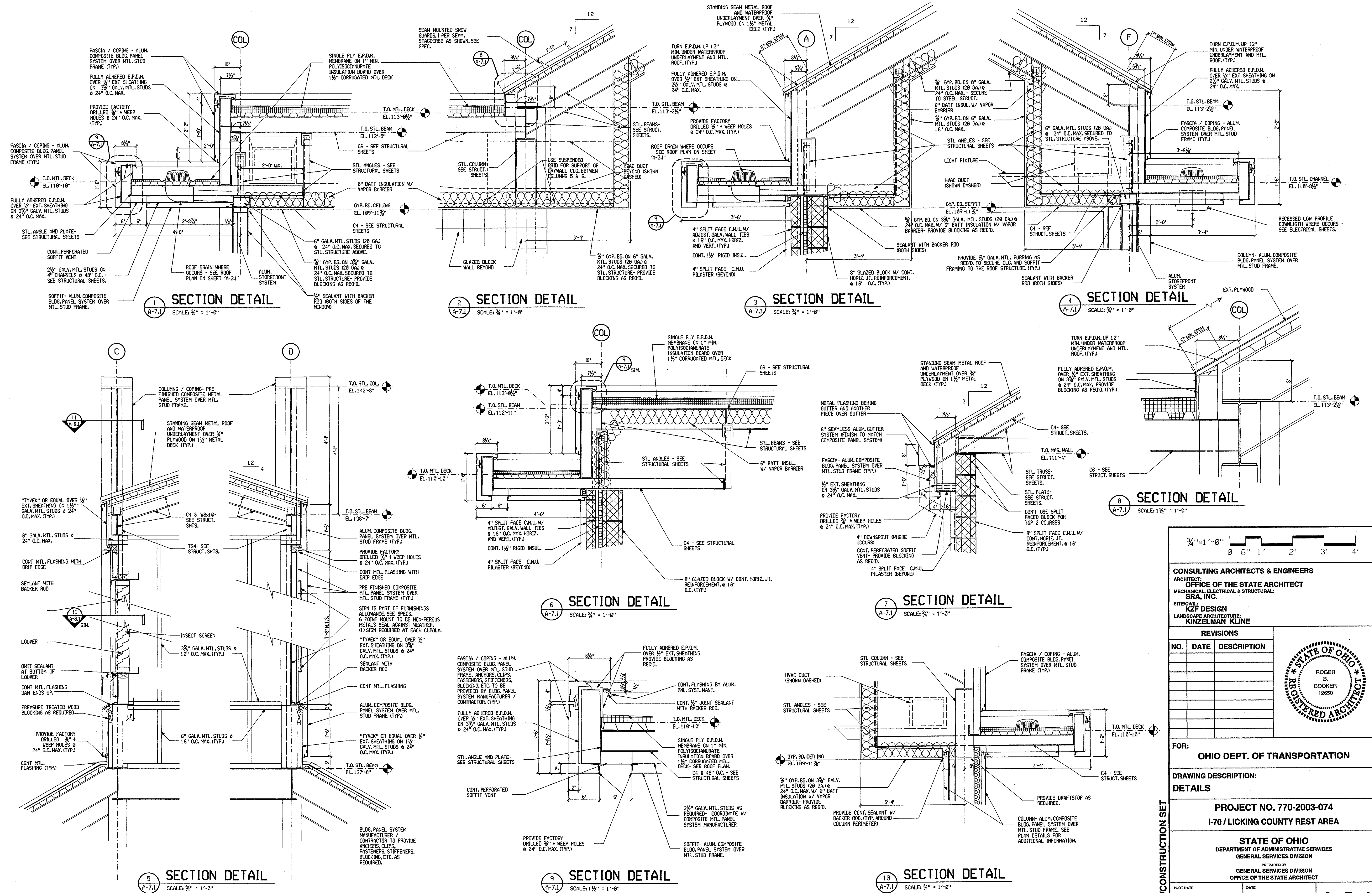
FOR: OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
PARTIAL PLANS & INTERIOR ELEVATIONS

PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLOT DATE: 13-JUL-2004 DATE: AUGUST, 2004 A-6.1



CONSULTING ARCHITECTS & ENGINEERS
 ARCHITECT: OFFICE OF THE STATE ARCHITECT
 MECHANICAL, ELECTRICAL & STRUCTURAL: SRA, INC.
 SITE/CIVIL: KZF DESIGN
 LANDSCAPE ARCHITECTURE: KINZELMAN KLINE

REVISIONS		
NO.	DATE	DESCRIPTION

FOR: **OHIO DEPT. OF TRANSPORTATION**

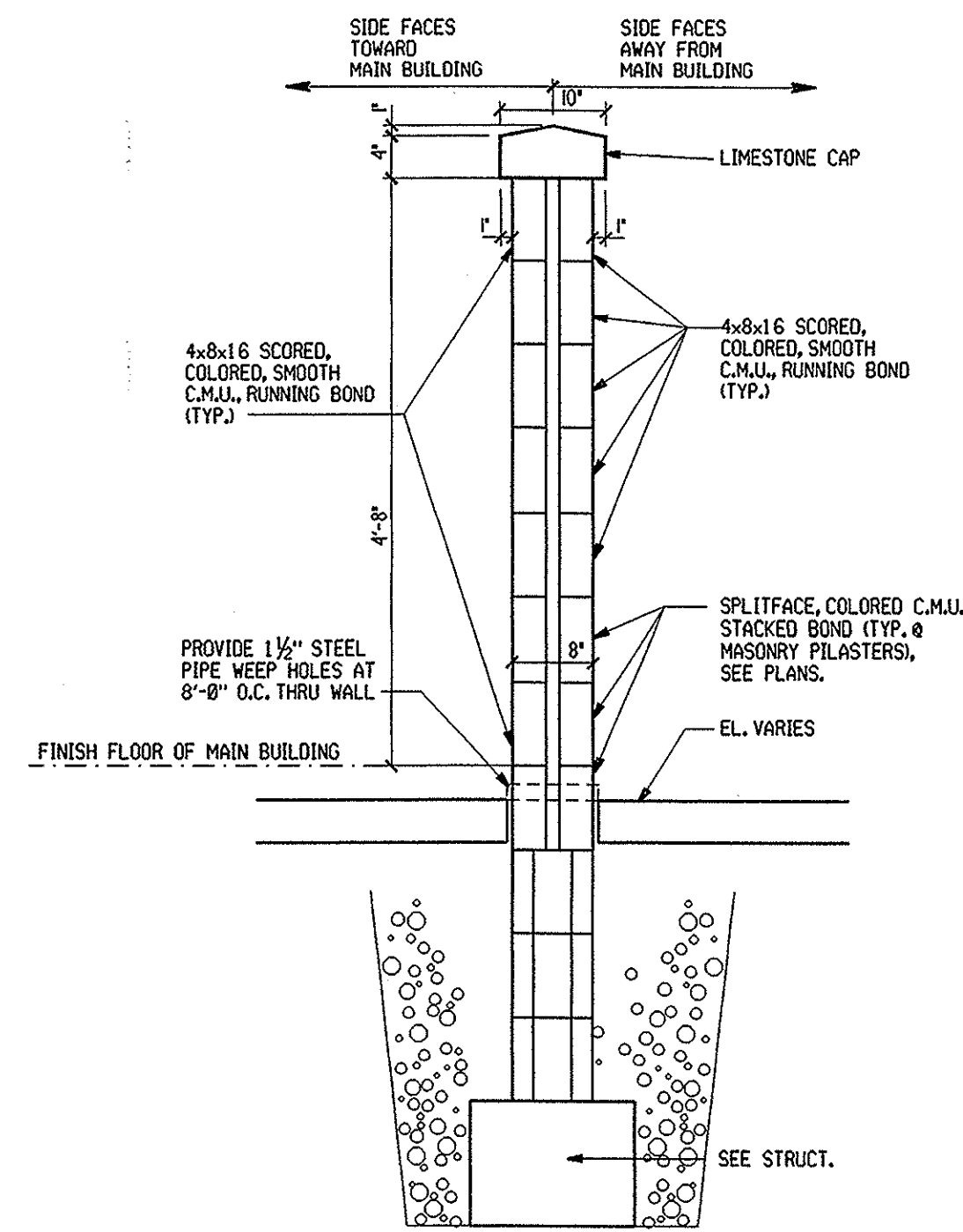
DRAWING DESCRIPTION:
DETAILS

PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

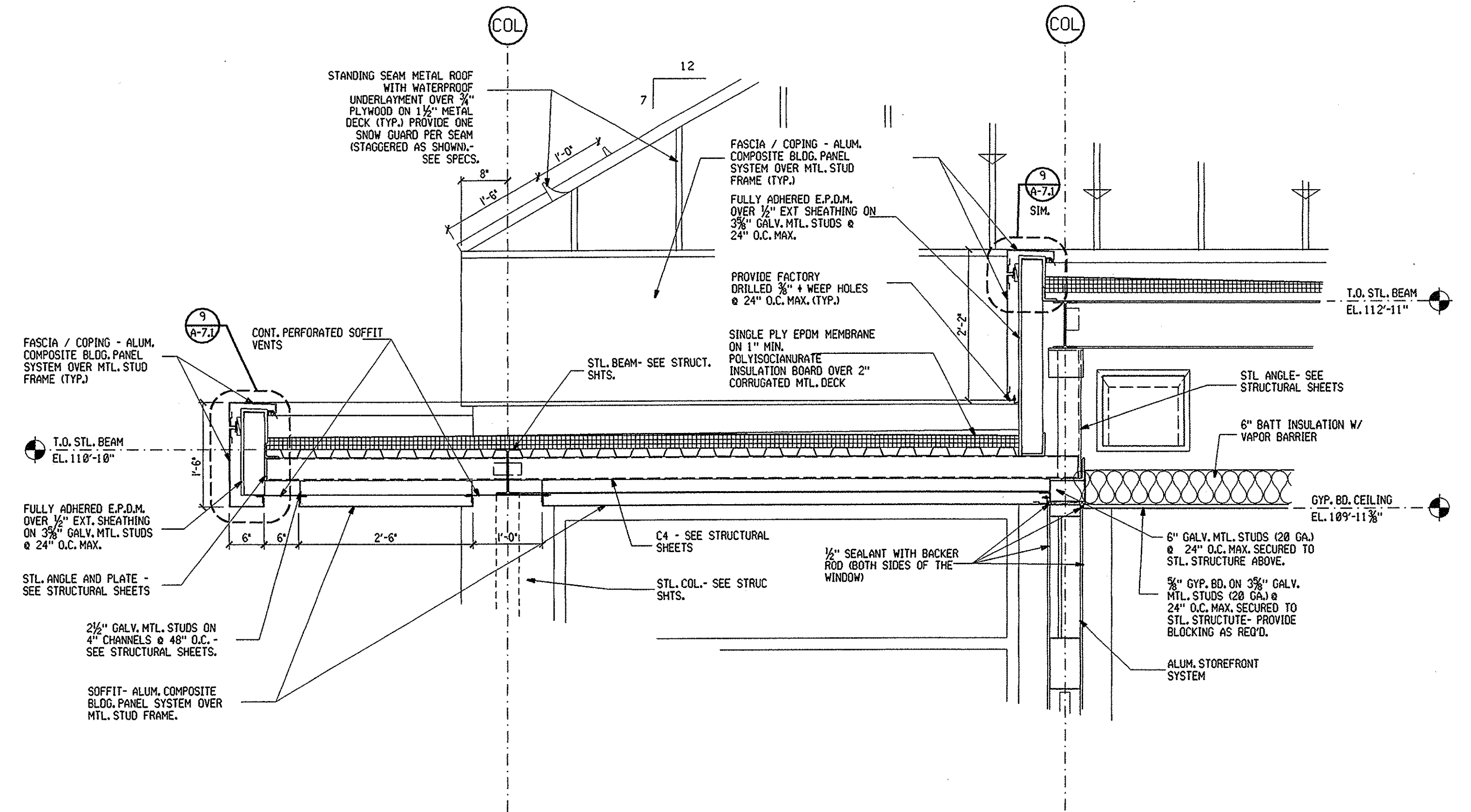
STATE OF OHIO
 DEPARTMENT OF ADMINISTRATIVE SERVICES
 GENERAL SERVICES DIVISION

PREPARED BY:
 GENERAL SERVICES DIVISION
 OFFICE OF THE STATE ARCHITECT

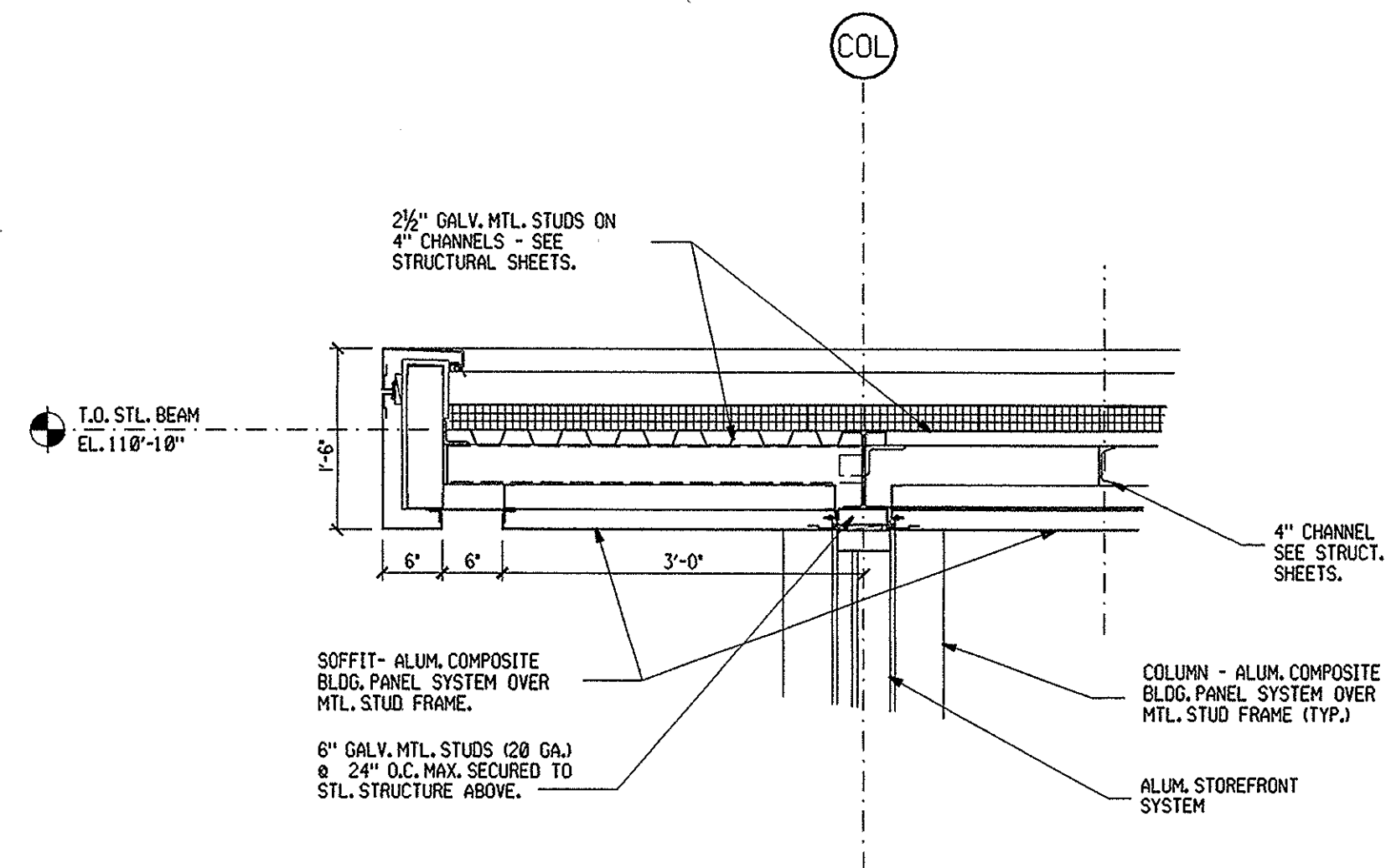
PLOT DATE: 13-JUL-2004 DATE: AUGUST, 2004 **A-7.1**



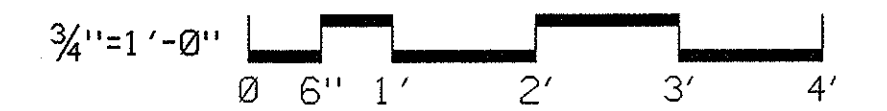
3
A-7.2
SCREEN WALL DETAIL
SCALE: 3/4" = 1'-0"



4
A-7.2
SECTION DETAIL
SCALE: 3/4" = 1'-0"

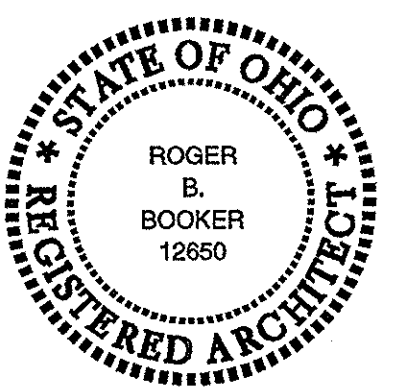


5
A-7.2
SECTION DETAIL
SCALE: 3/4" = 1'-0"



CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL & STRUCTURAL:
SRA, INC.
SITE/CIVIL:
KZF DESIGN
LANDSCAPE ARCHITECTURE:
KINZELMAN KLINE

REVISIONS		
NO.	DATE	DESCRIPTION



FOR:
OHIO DEPT. OF TRANSPORTATION

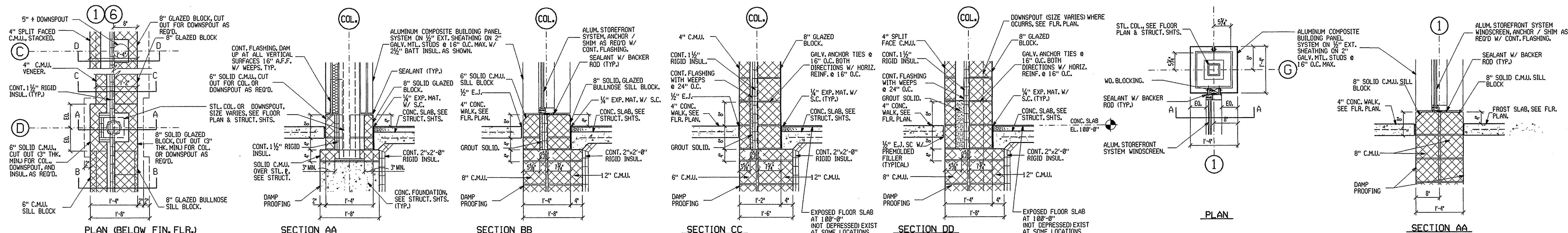
DRAWING DESCRIPTION:
DETAILS

PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

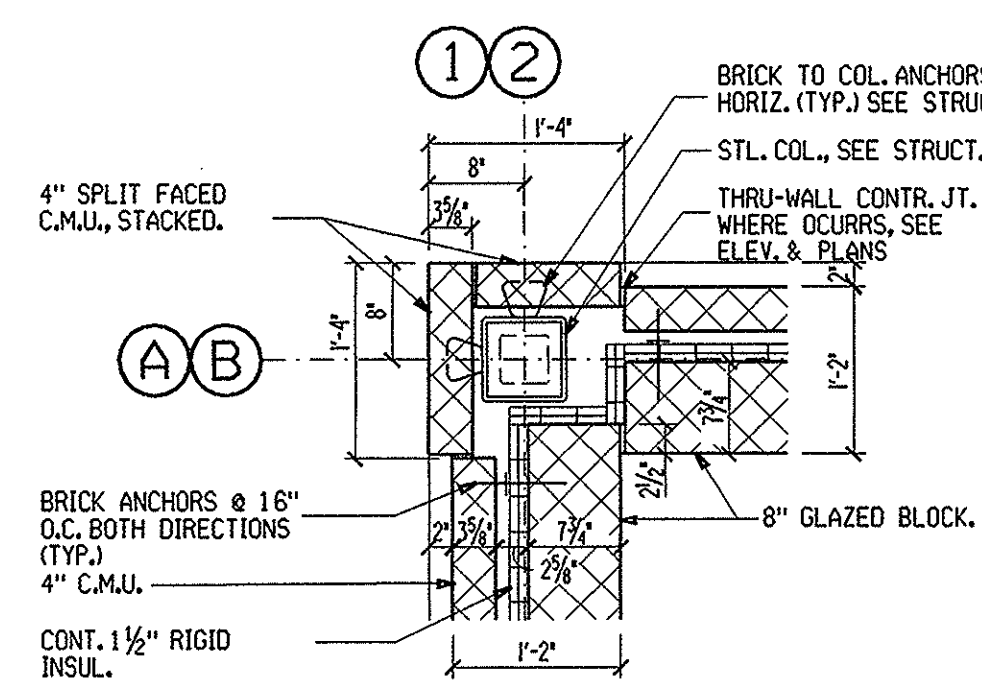
PLOT DATE: 13-JUL-2004
DATE: AUGUST, 2004
A-7.2

BID/CONSTRUCTION SET



1 TYPICAL COLUMN / WALL BASE & SILL DETAILS / SECTIONS NOTE: ALL CMU BELOW GRADE IS TO BE GROUTED SOLID.

10 PLAN DETAIL / SECTION

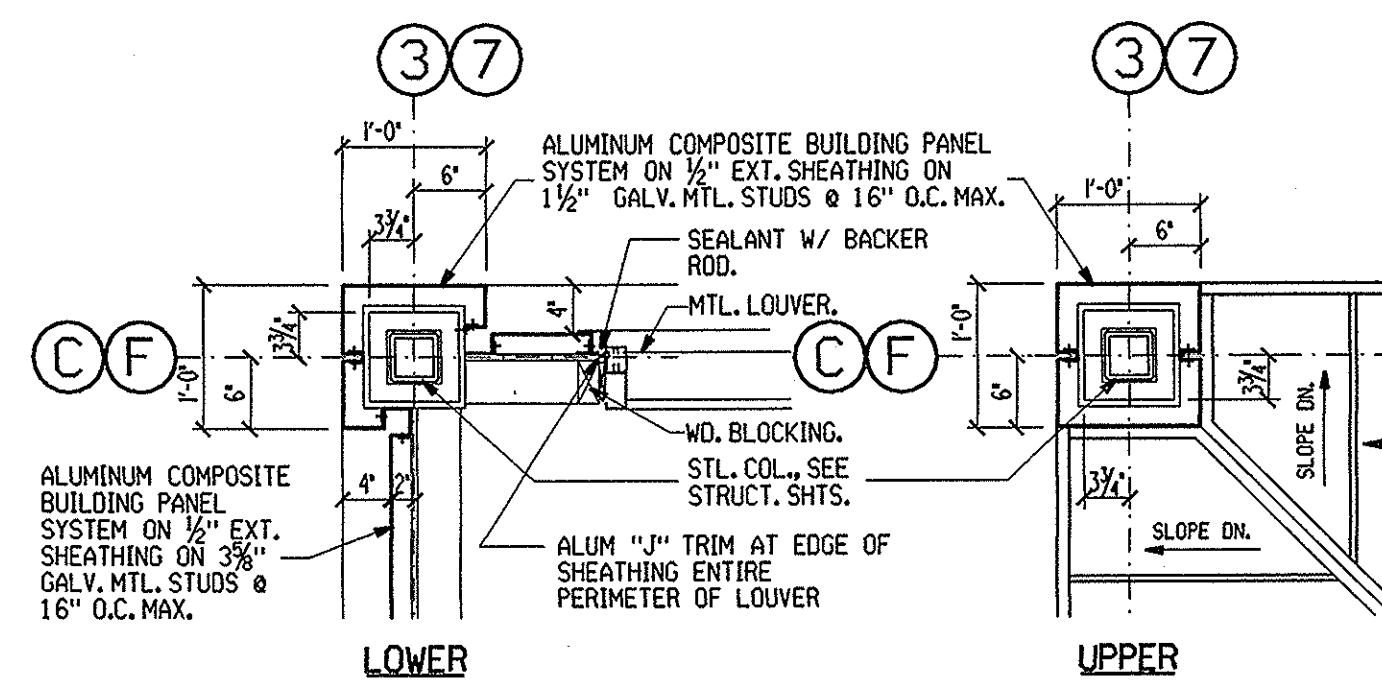


2 PLAN DETAIL

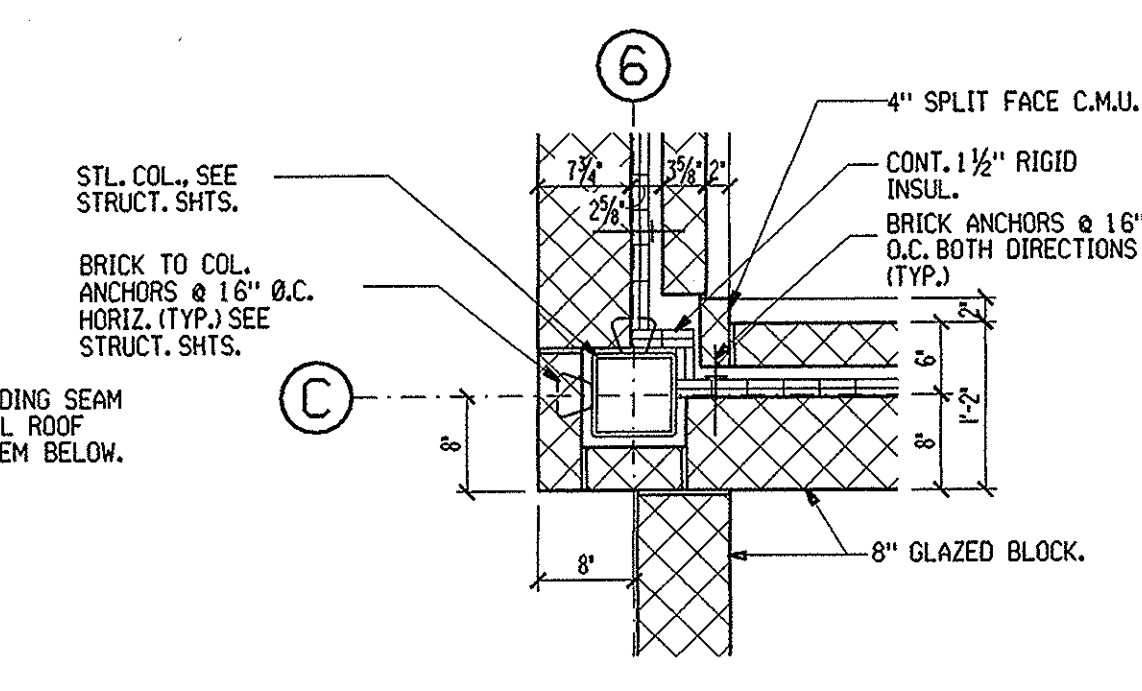
NOTE:
SEE FLOOR PLANS, SECTIONS, AND ELEVATIONS FOR ADDITIONAL INFORMATION.

NOT USED

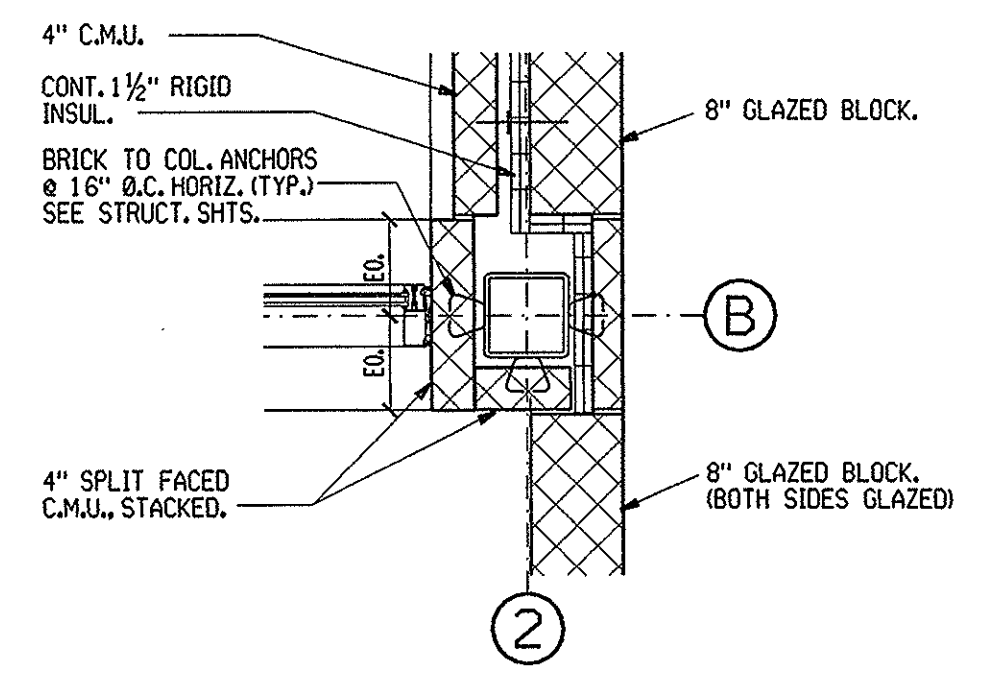
6 PLAN DETAIL



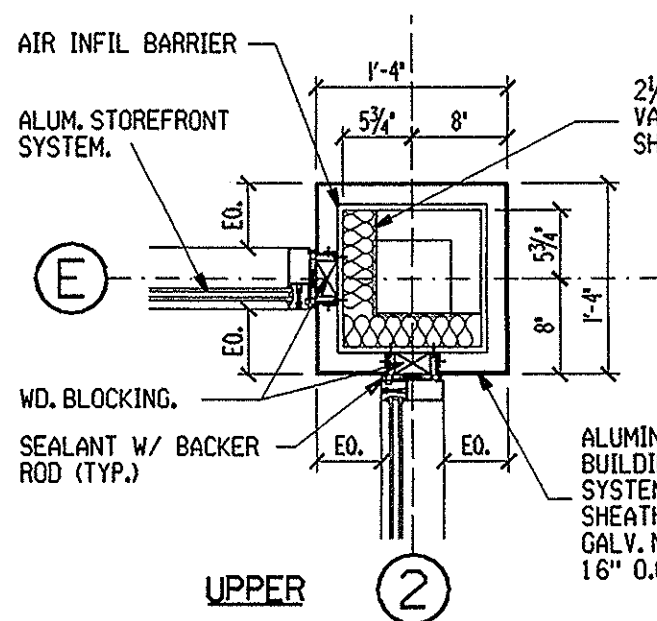
11 PLAN DETAIL (ABOVE ROOF)



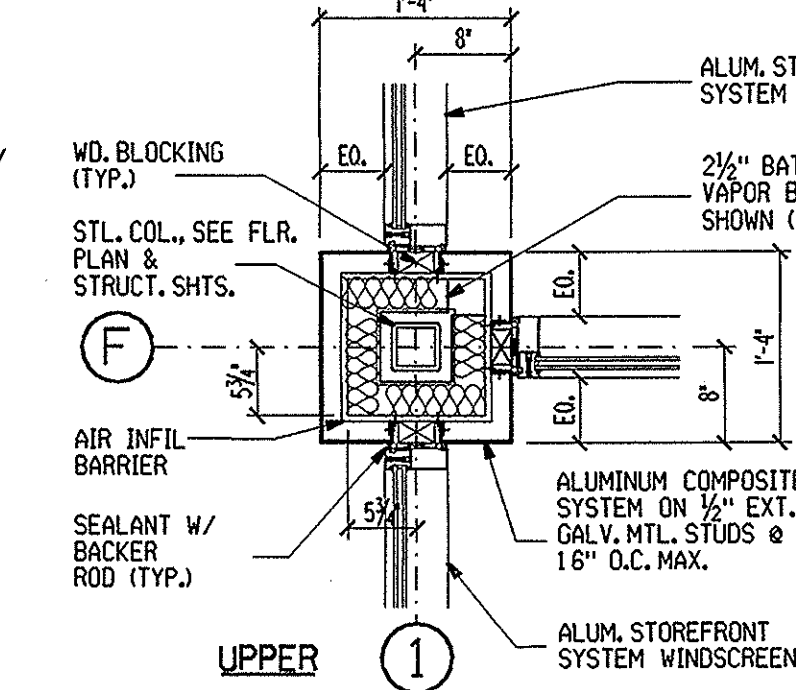
15 PLAN DETAIL



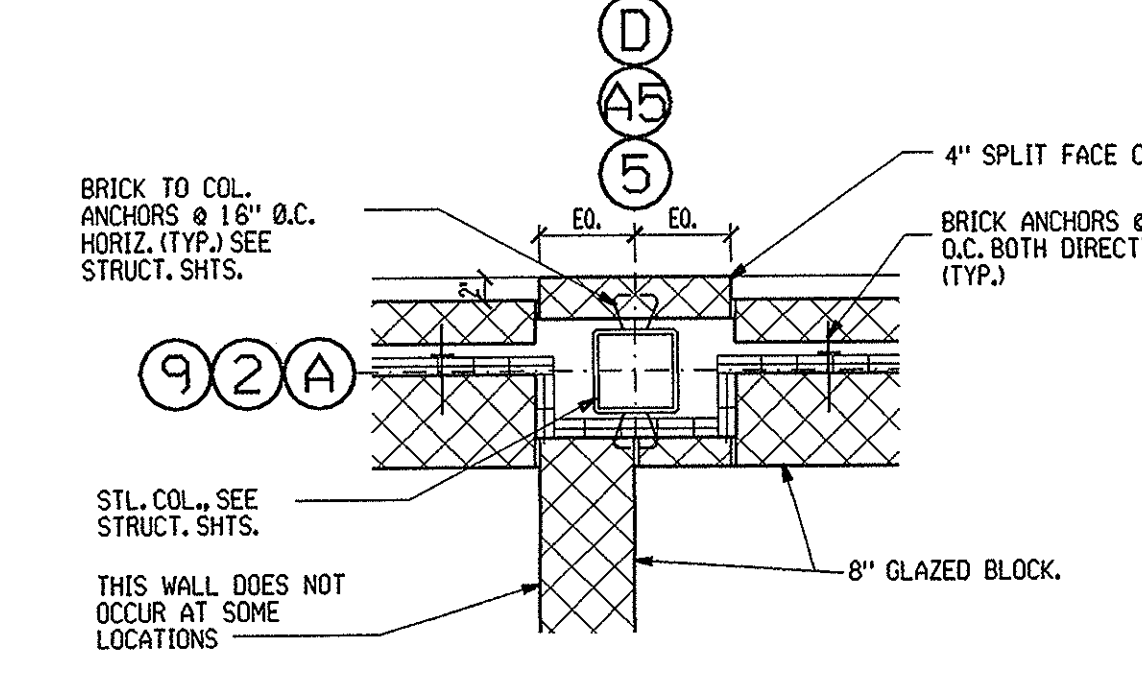
3 PLAN DETAIL



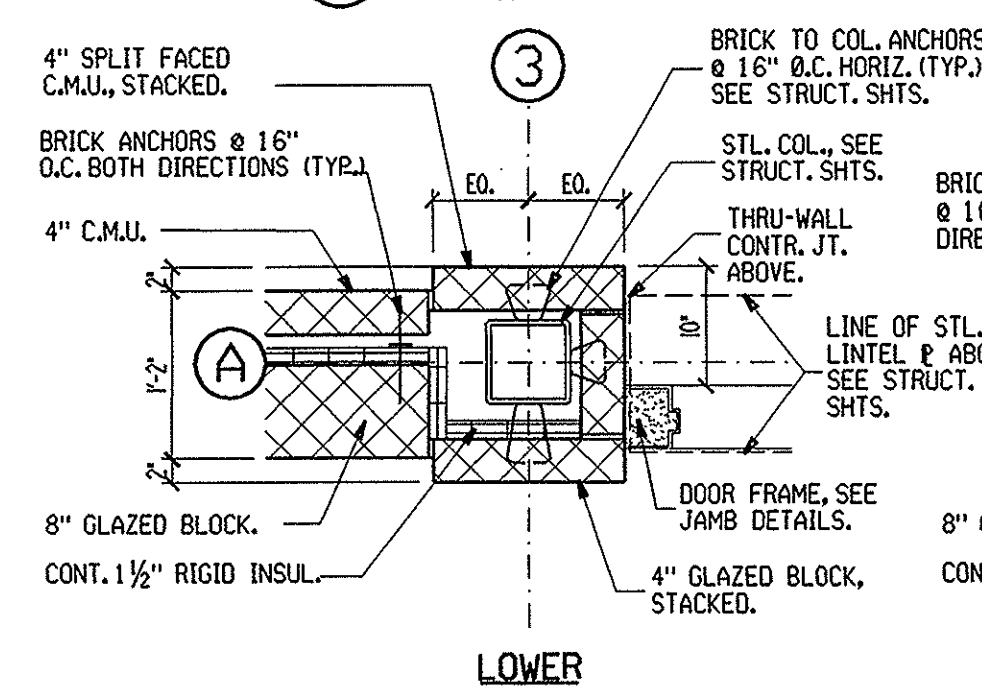
7 PLAN DETAIL



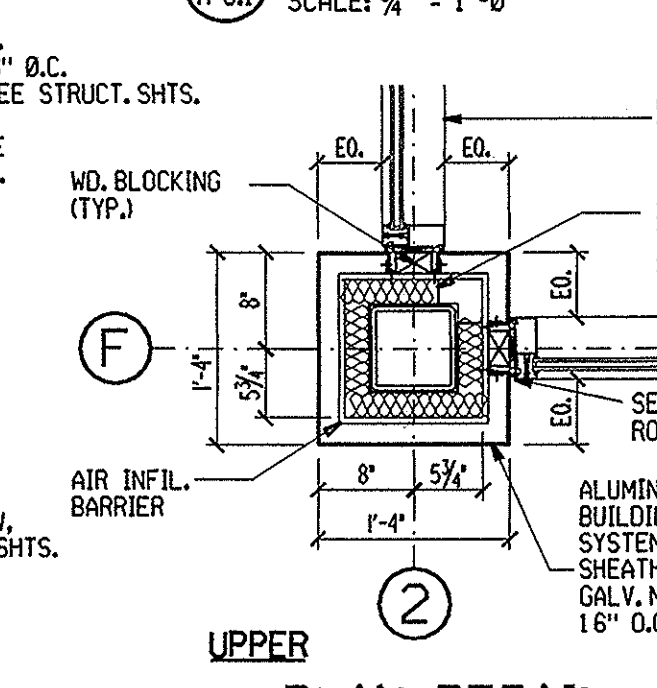
12 PLAN DETAIL



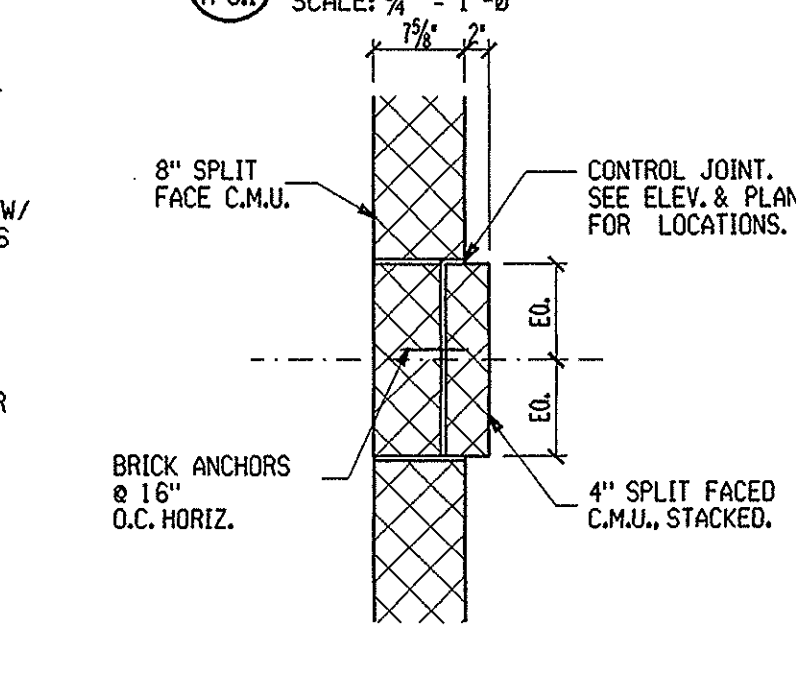
16 PLAN DETAIL



4 PLAN DETAIL



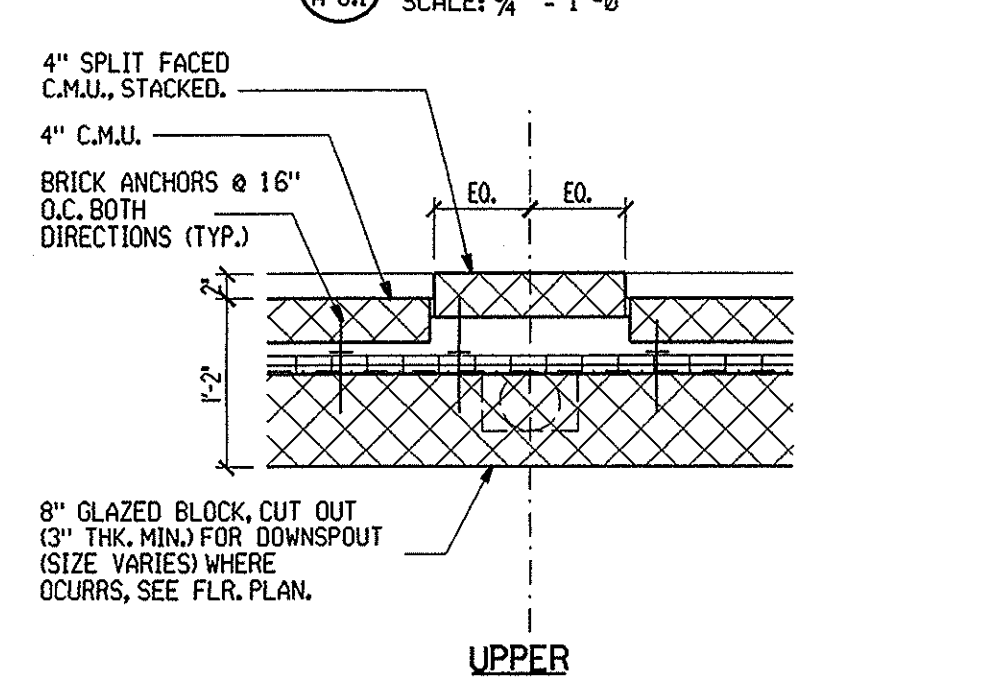
8 PLAN DETAIL



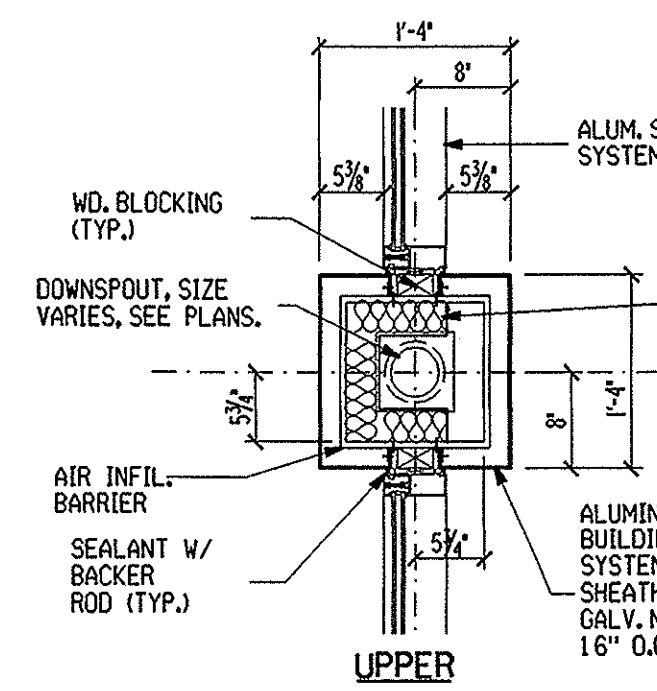
13 PLAN DETAIL



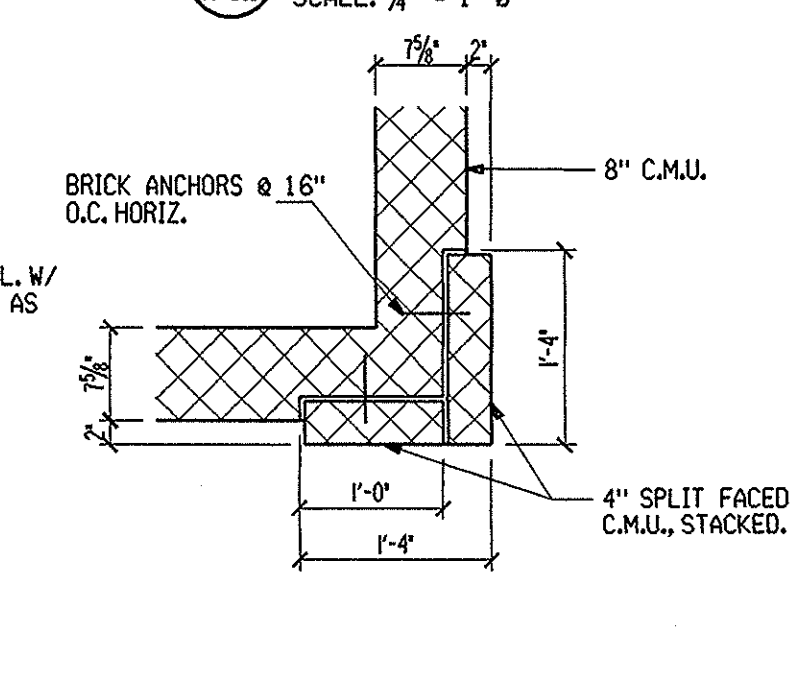
14 PLAN DETAIL



5 PLAN DETAIL



9 PLAN DETAIL



14 PLAN DETAIL



14 PLAN DETAIL

3/4" = 1'-0"

0 6' 1' 2' 3' 4'

CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT: OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL & STRUCTURAL: SRA, INC.
SITE/CIVIL: KZF DESIGN
LANDSCAPE ARCHITECTURE: KINZELMAN KLINE

REVISIONS		
NO.	DATE	DESCRIPTION

FOR: OHIO DEPT. OF TRANSPORTATION

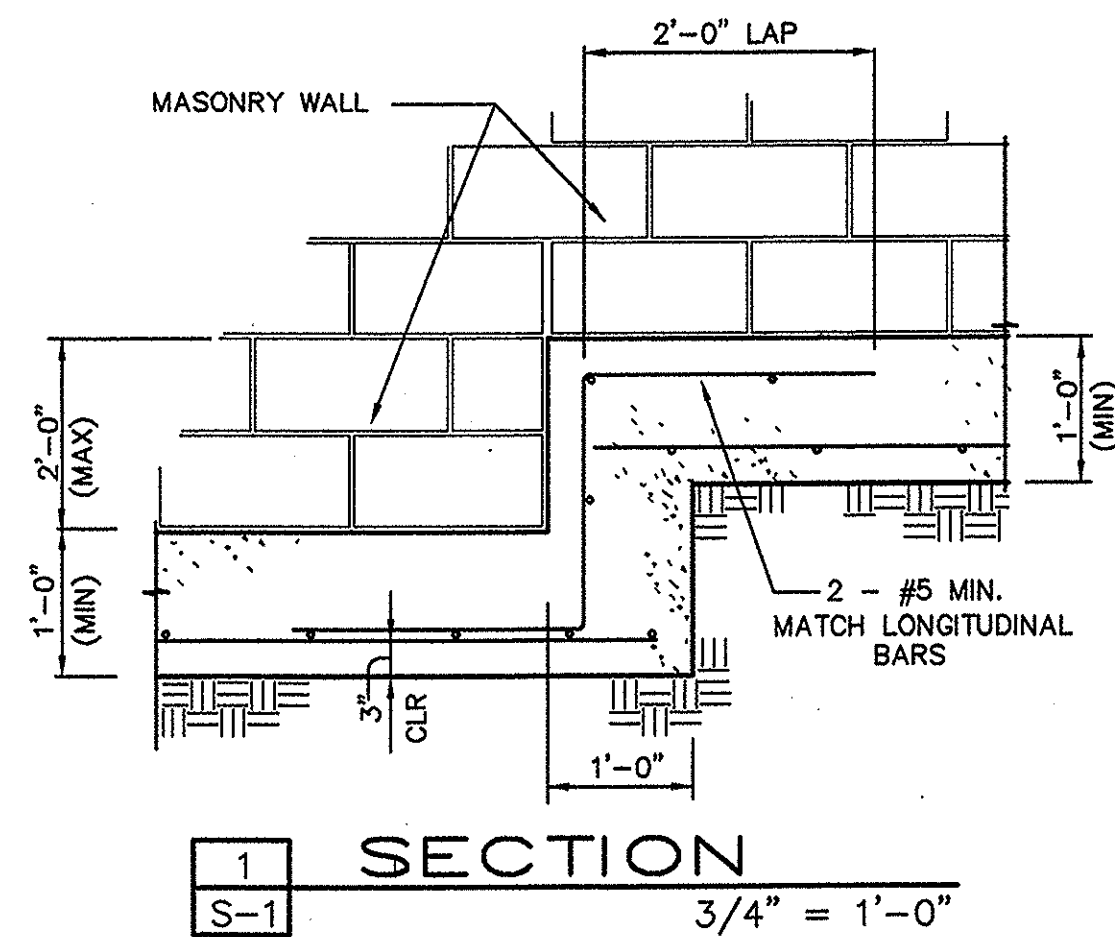
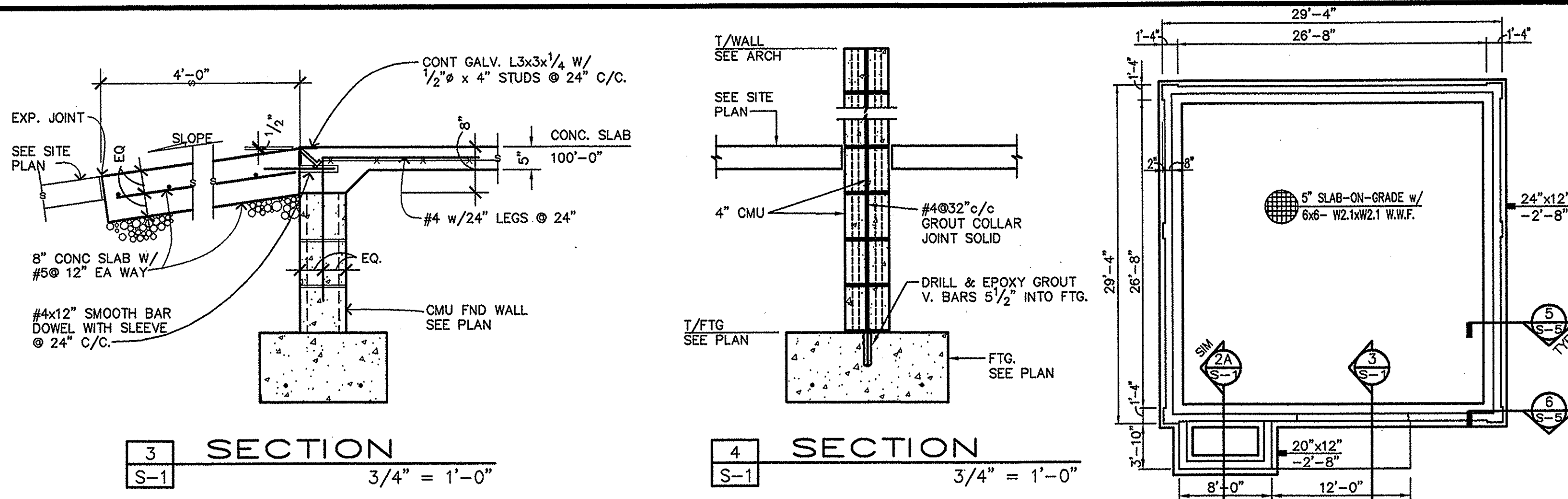
DRAWING DESCRIPTION: PLAN DETAILS & SECTIONS

PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY: GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

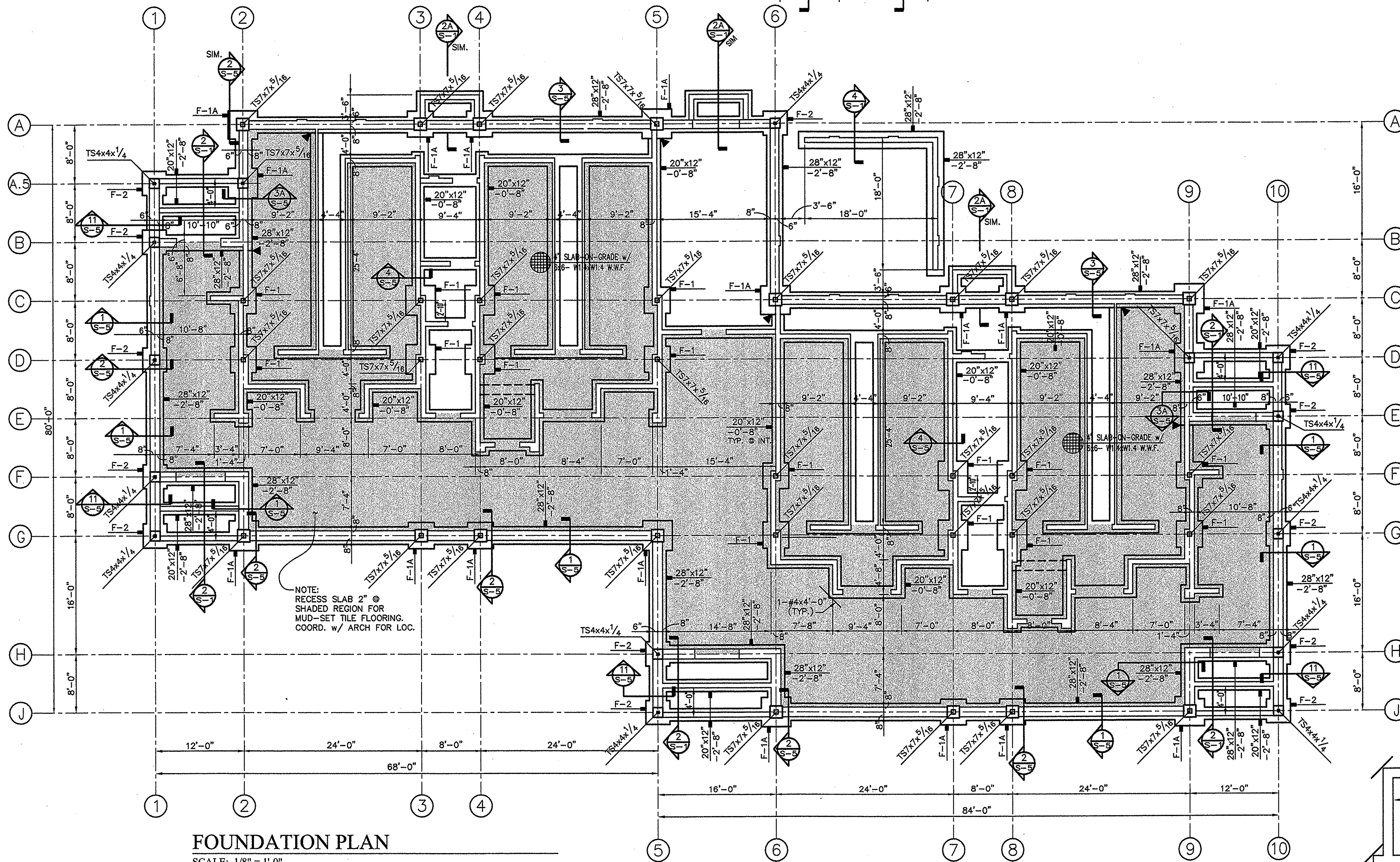
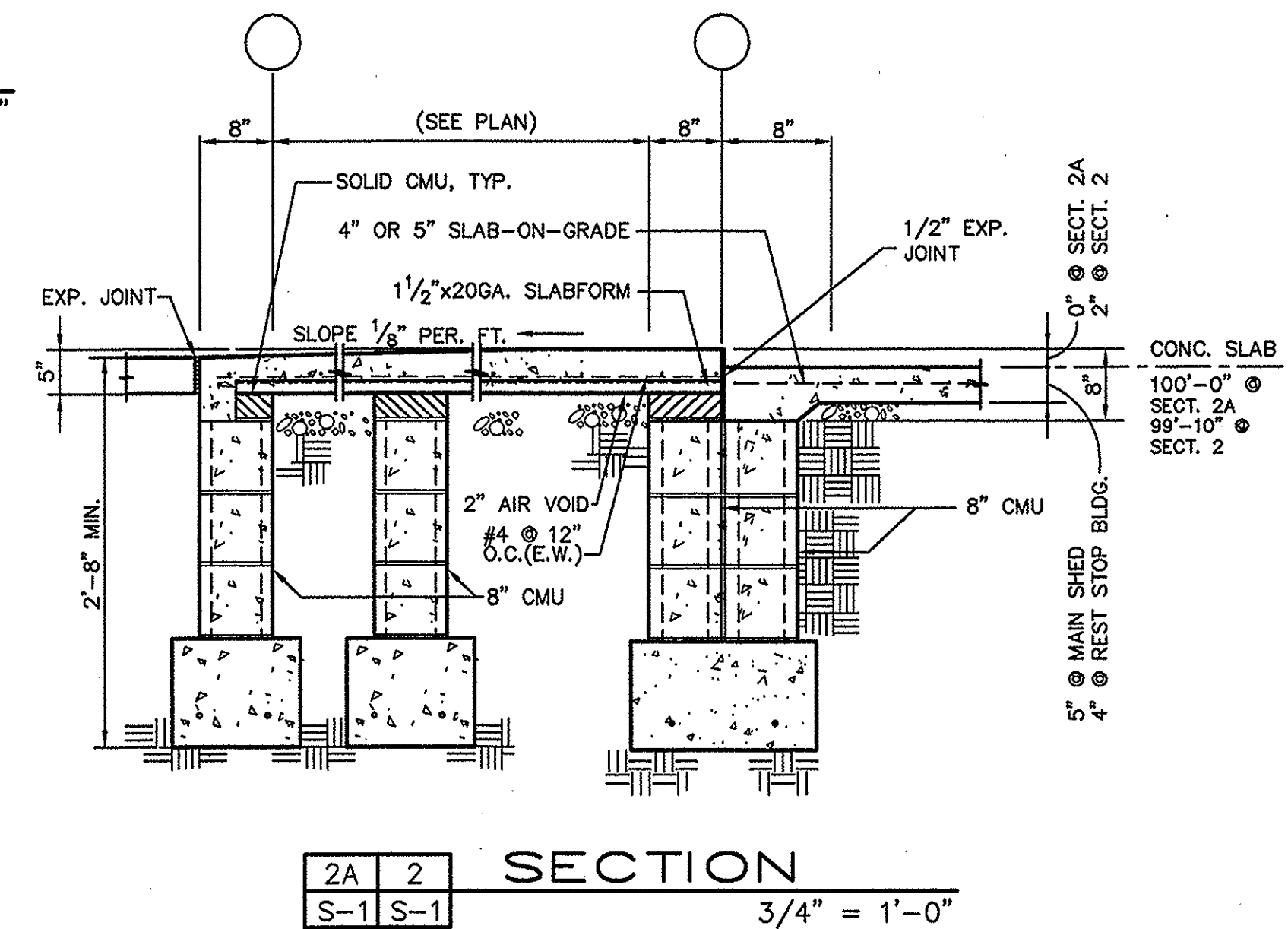
PLOT DATE: 13-JUL-2004 DATE: AUGUST, 2004

A-8.1



FOOTING SCHEDULE											
MARK	FOOTING						PEDESTAL				REMARKS
	SIZE			REINFORCEMENT			SIZE			REINF.	
	L	W	T	LONG	TRANS	DWL'S	L	W	VERT.	TIES	
F-1 / F-1A	4'-6"	4'-6"	1'-0"	5-#5	5-#5	4-#5	1'-8"	1'-8"	4-#8	#3@10	PEDESTAL @ F-1A
F-2	3'-4"	3'-4"	1'-0"	4-#5	4-#5	4-#5	1'-4"	1'-4"	4-#6	#3@10	
WALL	-	1'-8"	1'-0"	2-#5	-	-	-	-	-	-	INTERIOR WALLS
WALL	-	2'-4"	1'-0"	2-#5	-	SEE PLAN	-	-	-	-	EXTERIOR WALLS

1.) PROVIDE CORNER BARS AT ALL FOOTING INTERSECTIONS.
2.) PROVIDE 3 ADDITIONAL TIES AT 3" O.C. AT TOP OF PEDESTALS.

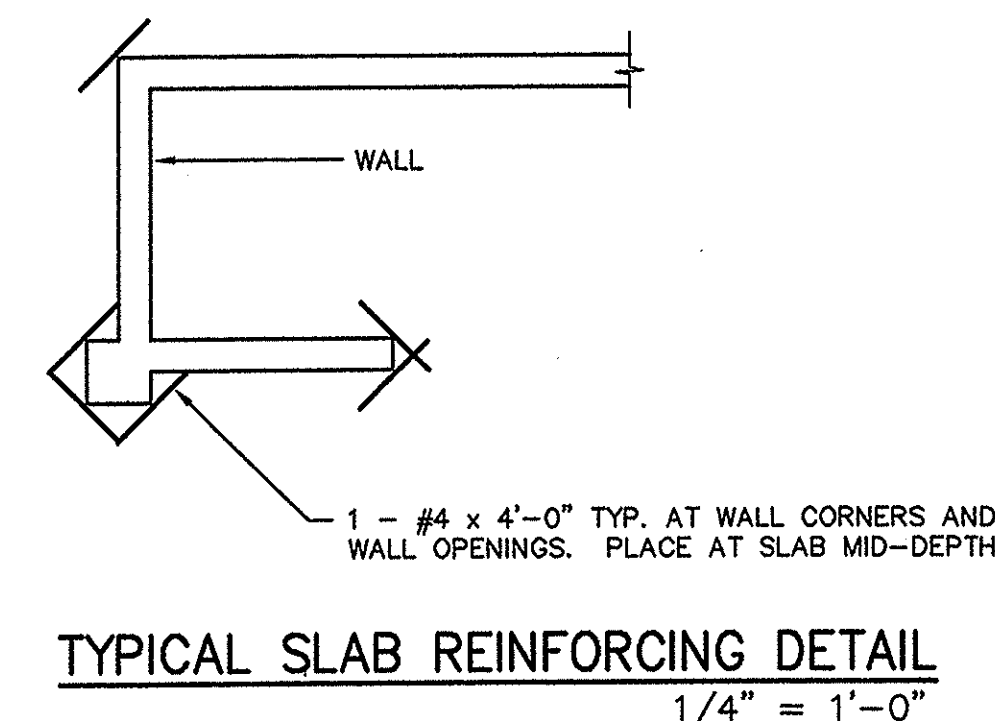


FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

- BUILDINGS INDICATED ARE TYPICAL OF TWO SETS OF BUILDINGS REQUIRED. SEE SITE DRAWINGS FOR BUILDING LOCATIONS.
- VERIFY LOCATIONS OF COLUMNS, WALLS, OPENINGS, ETC. WITH ARCHITECTURAL DRAWINGS BEFORE PLACING FOUNDATIONS.
- 4" SLAB ON GRADE WITH 6" X 6" W1.4 X W1.4 W.W.F. TYPICAL EXCEPT AS NOTED.
- TOP OF SLAB ELEVATION 100'-0" EXCEPT AS NOTED. REFERENCE ELEVATION 100'-0" EQUALS SITE ELEVATION AS DETERMINED BY THE CIVIL ENGINEER. COORDINATE TOP OF SLAB ELEVATION WITH ARCHITECTURAL FLOOR FINISHES.
- DESIGN SOIL BEARING CAPACITY 2000 PSF. ANY SOFT SPOTS OR VARIATIONS IN SUBSURFACE CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER. THE DESIGN BEARING CAPACITY SHALL BE FIELD VERIFIED BY AN INDEPENDENT TESTING AGENCY SPECIALIZING IN SOILS INVESTIGATIONS.

- 28"x12" - INDICATES FOOTING WIDTH AND THICKNESS (ABOVE THE LINE) INDICATES DISTANCE BELOW REFERENCE ELEVATION TO TOP OF FOOTING (BELOW THE LINE).
- INDICATES THICKENED SLAB ON PLAN.
- INDICATES STEP IN FOOTING ON PLAN. SEE SECTION 1/S-1.
- SEE SECTION 4/S-2 FOR JOINT DETAILS.
- SEE ARCHITECTURAL DRAWINGS FOR SLAB-ON-GRADE CONTROL JOINTS.
- ALL EXTERIOR FOOTINGS TO EXTEND MINIMUM OF 3'-4" BELOW FINISHED GRADE.
- DO NOT BACKFILL AGAINST THE FOUNDATION WALLS UNTIL BOTH LEVELS OF THE FLOOR SLAB ARE IN PLACE OR PROVIDE TEMPORARY SUPPORT. WHERE FILL IS ON BOTH SIDES OF A WALL, INSTALL THE FILL UNIFORMLY ON BOTH SIDES OF THE WALL.
- REFERENCE: GENERAL STRUCTURAL NOTES - S-2; FOOTING SCHEDULE - S-1; TYPICAL COLUMN BASE DETAIL - 3/S-2.



1/8" = 1'-0"

0 4' 8' 16' 24'

CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL, STRUCTURAL:
SRA, INC. / LANTZ JONES NEBRASKA
SITE/CIVIL:
KZF DESIGN
LANDSCAPE ARCHITECTURE:
KINZELMAN KLINE

REVISIONS		
NO.	DATE	DESCRIPTION

FOR:
OHIO DEPT. OF TRANSPORTATION

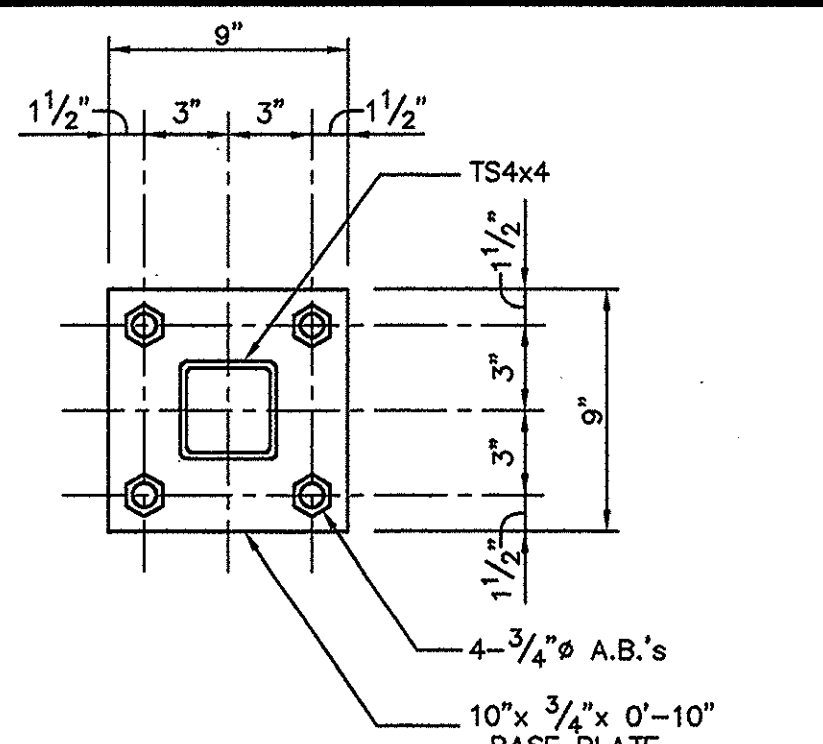
DRAWING DESCRIPTION:
FOUNDATION PLAN

PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

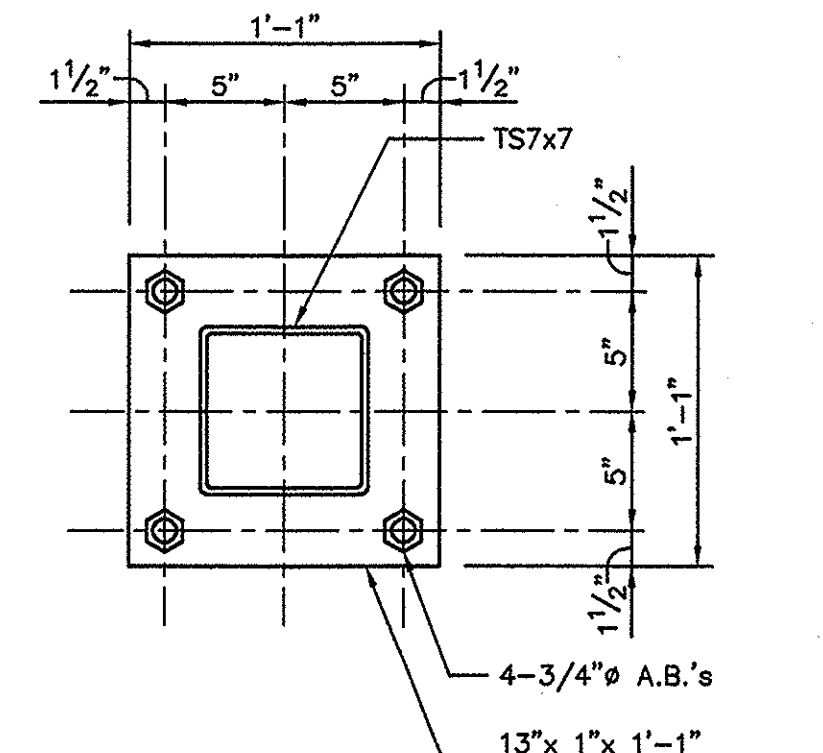
STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLOT DATE: AUGUST 23, 2004
DATE: AUGUST, 2004

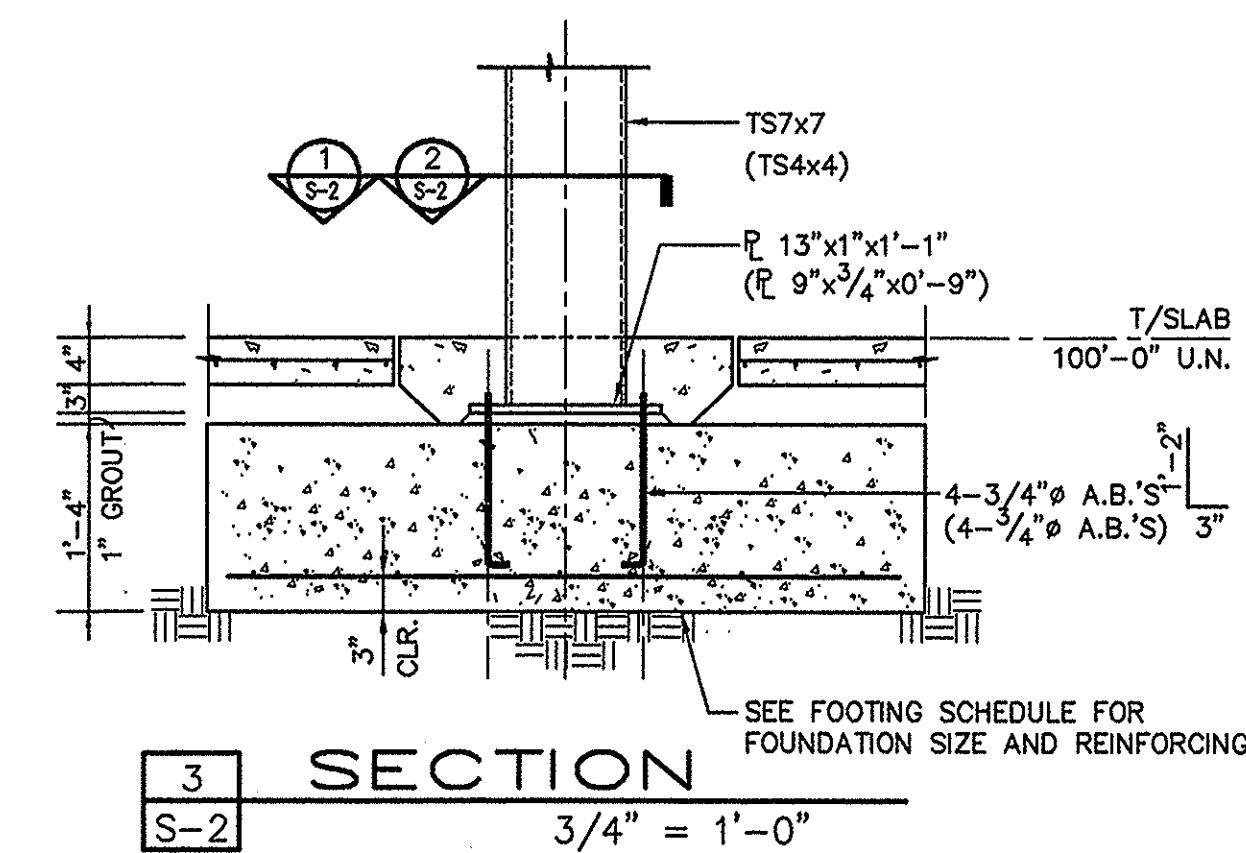
S-1



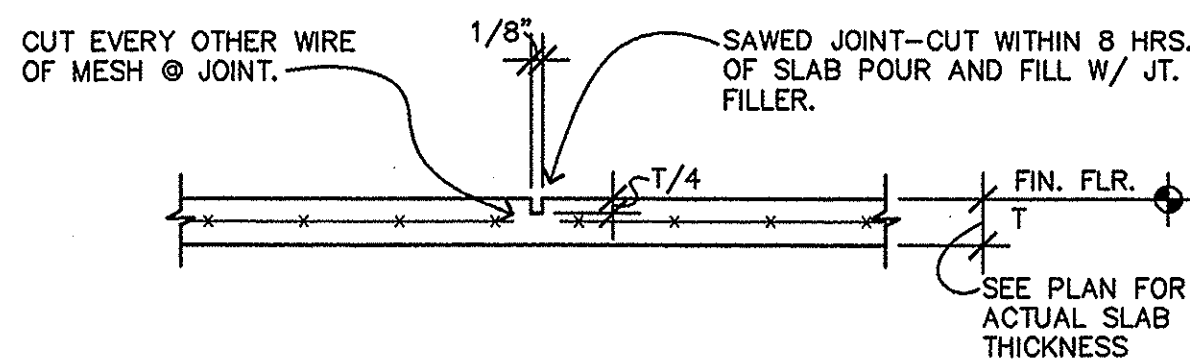
1 SECTION
S-2 1 1/2" = 1'-0"



2 SECTION
S-2 1 1/2" = 1'-0"

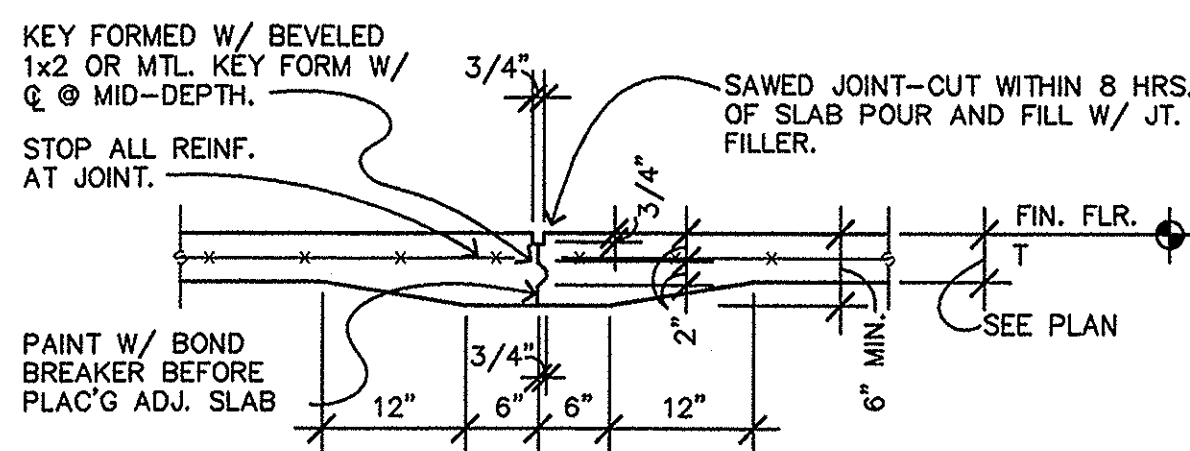


3 SECTION
S-2 3/4" = 1'-0"



1. PROVIDE TOOLED JOINTS IN FRESH CONCRETE EACH SIDE OF WALLS WHERE SLABS POUR THRU DOORWAYS.
2. PROVIDE A #4 BAR X 3'-0" AT MID-DEPTH OF THE SLAB PERPENDICULAR TO JOINTS THAT TERMINATE AT A PERPENDICULAR JOINT.

SAWED CONTROL JOINT



KEY FORMED W/ BEVELED 1x2 OR MTL. KEY FORM W/ @ MID-DEPTH. STOP ALL REINF. AT JOINT. SAWED JOINT-CUT WITHIN 8 HRS. OF SLAB POUR AND FILL W/ JT. FILLER. FIN. FLR. SEE PLAN FOR ACTUAL SLAB THICKNESS. FORMED CONTROL JOINT. SPACE CONTROL JOINTS @ APPROXIMATELY 15' TO 20' O.C. (EA. WAY). SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS.

4 SECTION
S-2 3/4" = 1'-0"

GENERAL STRUCTURAL NOTES

1. THE GENERAL STRUCTURAL NOTES ARE INTENDED TO AUGMENT THE DRAWINGS AND SPECIFICATIONS. SHOULD CONFLICTS EXIST BETWEEN THE DRAWINGS AND SPECIFICATIONS AND THE GENERAL STRUCTURAL NOTES, THE STRICTEST PROVISION SHALL GOVERN.
2. GOVERNING CODE: OHIO BUILDING CODE - 2002 EDITION.
3. SEE STRUCTURAL PLANS FOR DESIGN SOIL BEARING PRESSURE AND LIVE LOADS. LIVE LOADS REDUCED IN ACCORDANCE WITH THE GOVERNING CODE.
4. ROOF SNOW LOAD:
GROUND SNOW LOAD (Pg) - 25 PSF
SNOW EXPOSURE FACTOR (Ce) - 0.9
IMPORTANCE FACTOR (I) - 1.0
THERMAL FACTOR (Ct) - 1.0
FLAT ROOF SNOW LOAD (Pf) - 16 PSF
5. WIND LOAD:
DESIGN WIND SPEED - 90 MPH
IMPORTANCE FACTOR (I) - 1.0
EXPOSURE CATEGORY - EXPOSURE C
INTERNAL PRESSURE COEFFICIENT - (G Cpi) - ±0.18
6. SEISMIC LOAD:
SEISMIC USE GROUP - CATEGORY I
SPECTRAL RESPONSE ACCELERATION AT SHORT PERIODS - (SDS) - 0.25
SPECTRAL RESPONSE ACCELERATION AT ONE SECOND INTERVAL (SD1) - 0.15
SITE CLASS - C
BASIC SEISMIC FORCE RESISTING SYSTEM - ORDINARY STEEL MOMENT FRAMES
DESIGN BASE SHEAR - 9 KIPS
DESIGN BY EQUIVALENT LATERAL FORCE PROCEDURE
7. MECHANICAL FRAMING LOADS, OPENINGS, AND STRUCTURE IN ANY WAY RELATED TO MECHANICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL OBTAIN APPROVAL OF MECHANICAL AND OTHER TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN MECHANICAL REQUIREMENTS TO BE BORNE BY MECHANICAL CONTRACTOR. COORDINATE SIZE AND LOCATION OF ALL OPENINGS WITH THE MECHANICAL DRAWINGS.
8. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS, OR TIE-DOWNS WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER COMPLETION OF THE PROJECT.
9. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
10. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS RELATING TO EXISTING CONSTRUCTION AND EXISTING SERVICE ON THE SITE.
11. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF COLUMNS, WALLS, OPENINGS ETC. WITH THE ARCHITECTURAL DRAWINGS PRIOR TO PROCEEDING WITH THE WORK.

REINFORCED CONCRETE

1. SPECIFICATIONS AND STANDARDS:
UNLESS SPECIFICALLY SHOWN OTHERWISE, ALL CONCRETE WORK, DETAILING, FABRICATION AND PLACING OF BARS AND CONCRETE SHALL BE GOVERNED BY THE LATEST REVISIONS OF:
A. ACI 117, ACI 301, ACI 315, AND ACI 318.
B. ORSI RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS.
C. ACI 308 AND ACI 309 FOR WINTER AND HOT WEATHER CONCRETING, RESPECTIVELY.
THE CONTRACTOR SHALL AT ALL TIMES HAVE A COPY OF THE RELEVANT SPECIFICATIONS QUOTED ABOVE ON THE SITE AND THE SUPERVISORY PERSONNEL SHALL BE THOROUGHLY FAMILIAR WITH THE CONTENTS THEREOF.
2. CONTINGENCES:
A. PROVIDE LEAN CONCRETE UNDER FOUNDATIONS FOR EARTH FILL DUE TO ACCIDENTAL OVEREXCAVATION OR SOFT SPOTS.
3. CONCRETE REQUIREMENTS AND LOCATION IN JOB:
CLASS LOCATION FC SPECIAL REQUIREMENTS
I. FOOTINGS, PIERS, AND ALL INTERIOR CONCRETE NOT OTHERWISE NOTED 3000 PSI
II. EXTERIOR CONCRETE 4000 PSI 5% ±1% AIR CONTENT
III. INTERIOR SLABS-ON-GRADE 3500 PSI
IV. MASONRY GROUT 3000 PSI 7" SLUMP 3/8" MAX. AGG.
V. EARTH FILL 1500 PSI NO TESTS
SUBMIT CONCRETE MIXES FOR APPROVAL IN ACCORDANCE WITH ACI 301 BEFORE PLACING ANY CONCRETE.
4. REINFORCING REQUIREMENTS:
A. BARS: ASTM A615, A616, A617 - GRADE 60.
B. WELDED WIRE FABRIC: ASTM A185.
5. FOOTINGS:
A. DOWELS IN FOOTINGS TO MATCH VERTICAL WALL OR PIER REINFORCING. DOWELS NOT REQUIRED AT REINFORCED MASONRY UNLESS SPECIFICALLY INDICATED ON PLAN OR SECTION.
B. BEND ALL BARS 24 DIAMETERS AROUND CORNERS OF WALL AND FOOTINGS. BARS AT THE INSIDE FACE OF THE CORNER SHALL BE CONTINUED ACROSS TO THE OUTSIDE AND THEN BENT.
6. MISCELLANEOUS:
A. IF NO OTHER REINFORCING IS SHOWN IN A SLAB ON GRADE, PROVIDE 6X6-W1.4 X W1.4 WWF AT MID-THICKNESS OF SLAB.
B. LAP WELDED WIRE FABRIC 1 SPAN + 4" 2" AT ALL EDGES AND ENDS OF SHEET.
C. DO NOT BACKFILL AGAINST FOUNDATION WALLS UNTIL BOTH ADJACENT FLOOR SLABS ARE IN PLACE OR WHERE FILL IS ON BOTH SIDES OF A WALL, BRING THE FILL UP UNIFORMLY.
D. CONSTRUCTION JOINTS PERMITTED ONLY WHERE SHOWN OR AS APPROVED BY THE STRUCTURAL ENGINEER.
E. PROVIDE ONE #4X3'-0" DIAGONAL REINFORCING BAR AT MID-DEPTH OF SLAB AT ALL RE-ENTRANT CORNERS OF SLABS ON GRADE.

MASONRY

1. MASONRY MATERIALS:
A. HOLLOW AND SOLID LOAD BEARING CONCRETE MASONRY UNITS - ASTM C90 - TYPE 1 - NORMAL WEIGHT, MINIMUM COMPRESSIVE STRENGTH (F'm) 1500 PSI.
B. CLAY BUILDING BRICK - ASTM C216 GRADE SW.
2. MORTAR:
A. LOAD BEARING WALLS - ASTM C270 TYPE S.
B. NON-LOAD BEARING WALLS - ASTM C270 TYPE N.
C. ALL MASONRY BELOW GRADE - ASTM C270 TYPE S.
3. COARSE MASONRY GROUT: SEE CONCRETE REQUIREMENTS IN REINFORCED CONCRETE GENERAL NOTES.
4. MASONRY REINFORCEMENT:
A. HORIZONTAL JOINT REINFORCEMENT: 9 GA DEFORMED WIRE, LADDER TYPE REINFORCEMENT.
1. IN EVERY SECOND BLOCK COURSE, FILL HEIGHT, AND WHERE SHOWN ON DRAWINGS.
2. IN FIRST BED JOINT ABOVE AND BELOW OPENINGS EXTENDING 24" BEYOND OPENING.
3. LAP REINFORCEMENT A FULL WIDTH AT CORNERS AND INTERSECTIONS.
5. BEARING POINTS:
A. PROVIDE 3 COURSES X 24" WIDE SOLID OR GROUTED SOLID MASONRY AT BEAM BEARING POINTS.
B. PROVIDE 2 COURSES X 16" WIDE SOLID OR GROUTED SOLID MASONRY AT JOIST AND UNLOAD BEARING POINTS.
6. REINFORCED MASONRY:
A. INSTALL REINFORCING BARS IN SIZES SHOWN ON DRAWINGS ACCURATELY IN LOCATIONS SHOWN. LAP SPLICE REINFORCING 48 BAR DIAMETERS UNLESS NOTED.
B. GROUT BLOCK WITH COARSE MASONRY GROUT VIBRATED IN PLACE TO FILL ALL VOIDS AND INTERSTICES. FOLLOW RECOMMENDATIONS OF NOMATEK NO. 3-2.

STRUCTURAL STEEL

1. SPECIFICATIONS AND STANDARDS:
UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION AND ERECTION SHALL BE GOVERNED BY THE LATEST REVISIONS OF:
A. AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, ASD-9th EDITION
B. AISC CODE OF STANDARD PRACTICE.
C. AWS STANDARD WELDING SYMBOLS.
D. STRUCTURAL WELDING CODE AWS D1.1-2000 OF THE AMERICAN WELDING SOCIETY. WELDING SHALL BE PERFORMED ONLY BY OPERATORS QUALIFIED, BY THE AWS STANDARD QUALIFICATION PROCEDURE, TO PERFORM THE PARTICULAR TYPE OF WORK REQUIRED.
2. TESTING:
A. WELDS: NON-DESTRUCTIVE TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY ON ALL CRITICAL WELDS AND ON 25% OF NONCRITICAL WELDS. INADEQUATE WELDS SHALL BE STRENGTHENED OR CUT OUT AND REPLACED AS DIRECTED. CRITICAL WELDS SHALL BE DEFINED AS ALL FULL PENETRATION WELDS, ALL WELDS IN MOMENT CONNECTIONS AND AS NOTED AS CRITICAL WELDS ON THE STRUCTURAL DETAILS.
3. MATERIALS:
A. "W" SHAPES: ASTM A992 Fy = 50 KSI.
B. CHANNELS: ASTM A36.
C. ANGLES, PLATES AND BARS: ASTM A36.
D. WELDING ELECTRODES: AWS A5.1 OR A5.5 SERIES E70.
E. BOLTS: ASTM A307, A325.
F. ANCHOR BOLTS: ASTM F1554 GR.36.
H. PAINT AND PROTECTION:
1. PRIME COAT, TOUCH UP AFTER ERECTION.
2. MEMBERS TO BE ENCASED IN CONCRETE: NO PAINT.
3. MEMBERS EXPOSED TO WEATHER IN FINISHED STRUCTURE: GALVANIZED AFTER FABRICATION.
4. CONNECTION REQUIREMENTS:
A. DESIGN CONNECTIONS FOR VERTICAL REACTIONS SHOWN ON DRAWINGS OR FOR FULL CAPACITY OF MEMBER WHERE NO REACTION IS SHOWN.
B. DESIGN MOMENT BEAM STRUCTURAL SECTIONS: ASTM A500 GR B, Fy = 46 KSI.
C. CONNECTIONS SHOWN AND DETAILED ON THE DRAWINGS MAY BE REDESIGNED BY THE STRUCTURAL STEEL CONTRACTOR FOR EQUAL FORCES PROVIDED THE SAME ARRANGEMENT OF MEMBERS IS USED AND THE OVERALL SIZE OF THE CONNECTION DOES NOT EXCEED THAT OF THE CONNECTION DETAILED.
D. OBTAIN APPROVAL FROM STRUCTURAL ENGINEER FOR TYPES OF CONNECTIONS BEFORE FABRICATION.
E. ALL BOLTED CONNECTIONS TO BE SHEAR/BEARING TYPE WITH BOLTS IN THE SNUG TIGHT CONDITION UNLESS NOTED OTHERWISE.
5. MISCELLANEOUS REQUIREMENTS:
A. PROVIDE HOLES FOR OTHERS. IF SECTION IS WEAKENED BY MORE THAN 15% BY AN OPENING NOT SHOWN ON THE DRAWINGS, OBTAIN PRIOR APPROVAL.
B. STEEL SUPPORTING OR CONNECTING TO MECHANICAL OR OTHER EQUIPMENT IS SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL RECONCILE EXACT SIZE AND LOCATION WITH MECHANICAL AND OTHER REQUIREMENTS BEFORE PROCEEDING WITH THE WORK. CONTRACTOR SHALL COORDINATE EXACT SIZE AND LOCATION FOR ALL STEEL ANGLE FRAMES WITH OPENINGS SHOWN ON THE MECHANICAL AND ARCHITECTURAL DRAWINGS.
C. GROUT UNDER BEARING PLATES TO BE NON-SHRINKING TYPE MEETING ALL THE REQUIREMENTS OF CRD-C621, CORPS OF ENGINEERS SPECIFICATION FOR NON-SHRINK GROUT OR MEETING ALL REQUIREMENTS OF ASTM C1107 FOR FLUID CONSISTENCY, 30 MINUTE WORKING TIME AND TEMPERATURE RANGE FROM 45F. TO 90F.
D. STEEL BELOW GRADE TO BE PROTECTED BY A MINIMUM OF 3" OF CONCRETE OR 4" OF MASONRY.
E. PROVIDE 1/4" THICK SETTING PLATES FOR ALL BEAMS BEARING ON MASONRY OR CONCRETE WHICH DO NOT REQUIRE A BEARING PLATE. ANCHOR THE SETTING PLATE TO THE WALL W/TWO - 1/2" X 16" HOOK A36 ANCHOR BOLTS.
F. PROVIDE HEAVY WASHER AT ALL ANCHOR BOLTS.
G. PROVIDE ANGLE SUPPORTS FOR ALL METAL DECK RIBS AT COLUMNS WHEN COLUMN SIZE PREVENTS RIB FROM CONTINUING TO BEAM WHICH IS SUPPORTING DECK AT COLUMN LINE.

STEEL DECK

1. SPECIFICATIONS AND STANDARDS:
A. UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN FABRICATION AND ERECTION OF STEEL DECK SHALL BE GOVERNED BY THE LATEST EDITION OF THE AMERICAN IRON AND STEEL INSTITUTE, SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.
B. ALL PROPERTIES OF THE STRUCTURAL STEEL DECK SHALL BE COMPUTED IN ACCORDANCE WITH THE REFERENCE STANDARD. THE PROPERTIES SHALL BE PUBLISHED IN THE MANUFACTURER'S CATALOG.
C. AWS STANDARD WELDING SYMBOLS.
D. AWS D1.3 SPECIFICATIONS FOR WELDING SHEET STEEL IN STRUCTURES.
E. WELDING SHALL BE PERFORMED ONLY BY OPERATORS QUALIFIED, BY THE AWS STANDARD QUALIFICATION PROCEDURE, TO PERFORM THE PARTICULAR TYPE OF WORK REQUIRED.
2. MATERIALS:
A. PAINTED STEEL DECK: ASTM A611. THE STEEL USED SHALL HAVE A MINIMUM YIELD POINT OF 33 KSI.
B. GALVANIZED STEEL DECK: ASTM A653 STRUCTURAL QUALITY GRADE 33 WITH COATING DESIGNATION G60.
C. WELDING ELECTRODES: AWS A5.1, A5.5 OR A5.18 SERIES E60.
3. ERECTION AND CONNECTIONS:
A. STEEL DECK UNITS AND ACCESSORIES SHALL BE AS SHOWN ON THE MANUFACTURER'S ERECTION DRAWINGS.
B. MINIMUM BEARING OF THE DECK SHALL BE 2 INCHES UNLESS OTHERWISE SHOWN.
C. ANCHOR STEEL DECK TO STEEL SUPPORTING MEMBERS WITH 5/8" PUDDLE WELDS AT A MAXIMUM AVERAGE SPACING OF 12 INCHES UNLESS SHOWN OTHERWISE. WELDED SHEAR STUDS MAY REPLACE PUDDLE WELDS FOR DECKS WITH COMPOSITE CONCRETE SLABS.
D. SIDELAPS SHALL BE FASTENED BY MEANS OF A #10 SCREW AT MIDSPAN BETWEEN SUPPORTS UNLESS SHOWN OTHERWISE.
4. OPENINGS IN STEEL DECK:
A. OPENINGS OUT IN THE STEEL DECK SHALL BE REINFORCED OR SHALL BE SUPPORTED ON STEEL ANGLE FRAMES. COORDINATE SIZES AND LOCATIONS WITH THE MECHANICAL AND ARCHITECTURAL DRAWINGS.
B. OPENINGS IN STEEL DECK EQUAL TO OR LESS THAN 12" X 12" SHALL BE REINFORCED WITH A 24" X 24" - 16 GAGE PLATE SCREWED OR WELDED TO THE DECK RIBS ON ALL SIDES OF THE OPENING.
C. OPENINGS IN STEEL DECK GREATER THAN 12" X 12" SHALL BE SUPPORTED ON STEEL ANGLE FRAMES.

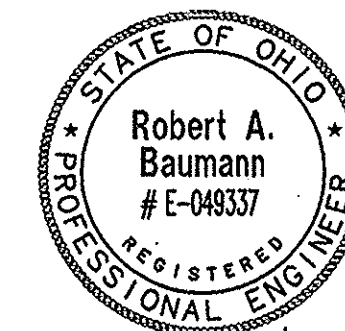
LIGHTGAGE METAL FRAMING

1. SPECIFICATIONS AND STANDARDS:
A. ALL STRUCTURAL PROPERTIES OF LIGHTGAGE METAL FRAMING SHALL BE COMPUTED IN ACCORDANCE WITH AISI "SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS" AND SHALL BE PUBLISHED IN THE MANUFACTURERS CATALOG.
B. WELDING SHALL BE PERFORMED ONLY BY QUALIFIED OPERATORS USING PROPER EQUIPMENT FOR THE PARTICULAR TYPE OF WORK REQUIRED.
C. AWS STANDARD WELDING SYMBOL.
D. AWS D1.3 SPECIFICATION FOR WELDING SHEET STEEL IN STRUCTURES.
2. MATERIALS:
A. STRUCTURAL FRAMING MEMBERS 16 GAGE AND HEAVIER: GALVANIZED, ASTM A653, GRADE D, Fy = 50,000 PSI.
B. STRUCTURAL FRAMING MEMBERS 18 GAGE AND LIGHTER: GALVANIZED, ASTM A653, GRADE A, Fy = 33,000 PSI.
C. ALL FRAMING MEMBERS TO BE "C" SHAPED WITH A MINIMUM FLANGE WIDTH OF 1 5/8" UNLESS OTHERWISE NOTED.
D. AISI TRACK AND BRIDGING MATERIALS, Fy = 33,000 PSI MIN.
E. ALL FRAMING MEMBERS SHALL BE GALVANIZED.
F. WELDING ELECTRODES: AWS A5.1, A5.5 OR A5.18 SERIES E60.
3. CONNECTIONS:
A. CUT ALL FRAMING COMPONENTS TO FIT SQUARELY AGAINST ABUTTING MEMBERS AND HOLD FIRMLY IN POSITION UNTIL PROPERLY FASTENED.
B. ALL PANELS SHALL BE SQUARE AND BRACED AGAINST RACKING.
C. WIRE TYING OF STRUCTURAL FRAMING COMPONENTS IS NOT PERMITTED.
D. LIGHTGAGE METAL FRAMING CONNECTIONS TO BE FASTENED TOGETHER WITH A MINIMUM OF 2-#8 SCREWS OR AS SHOWN ON THE PLANS.
4. ERECTION:
A. ATTACH TRACK SECURELY TO THE FLOOR AND OVERHEAD STRUCTURE.
B. SEAT STUDS SQUARELY TO THE FLOOR AND OVERHEAD TRACK AND ATTACH SECURELY.
C. SPLICES IN STRUCTURAL FRAMING MEMBERS ARE NOT PERMITTED WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.
D. DO NOT ALLOW AXIAL LOADS TO STUDS UNTIL ALL BRIDGING, CONNECTIONS, AND ATTACHMENT OF COLLATERAL MATERIALS ARE COMPLETE.
E. ATTACH V-BAR BRIDGING TO BOTH FLANGES OF WALL STUDS TO PREVENT STUD ROTATION. BRIDGING ROWS SHALL BE SPACED AT 4'-0" o/c OR IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
F. ATTACH V-BAR BRIDGING TO BOTH FLANGES OF JOISTS TO PREVENT JOIST ROTATION. ATTACH SOLID BRIDGING BETWEEN JOISTS AFTER EVERY 10'-0" SPAN. LENGTH OF V-BAR BRIDGING ROWS SHALL BE SPACED IN ACCORDANCE WITH THE FOLLOWING PROVISIONS. SOLID BRIDGING OR BANDING IS REQUIRED AT JOIST BEARING AT ALL SUPPORTS.
SPANS 0' TO 7'-0" - NO BRIDGING.
SPANS 7'-1" TO 14'-0" - ONE ROW AT MIDSPAN.
SPANS 14'-1" TO 20'-0" - TWO ROWS AT THIRD POINTS.
SPANS 20'-1" TO 28'-0" - THREE ROWS AT QUARTER POINTS.
G. PROVISIONS SHALL BE MADE FOR STRUCTURE VERTICAL MOVEMENT AT PARTITIONS AND CURTAINWALL INFILL AND WHERE INDICATED USING VERTICAL SLIDE TRACK AND VERTICAL SLIDE CLIPS. PROVIDE V-BAR BRIDGING TO BOTH FLANGES OF WALL STUDS WITHIN 6" OF THE SLIDE TRACK LOCATIONS.

3/4" = 1'-0"

CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL / ELECTRICAL / STRUCTURAL:
SRA, INC. / LANTZ JONES NEBRASKA
SITE/CIVIL:
KZF DESIGN
LANDSCAPE ARCHITECTURE:
KINZELMAN KLINE

REVISIONS		
NO.	DATE	DESCRIPTION



Robert A. Baumann 8/23/04

FOR: OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
STRUCTURAL NOTES

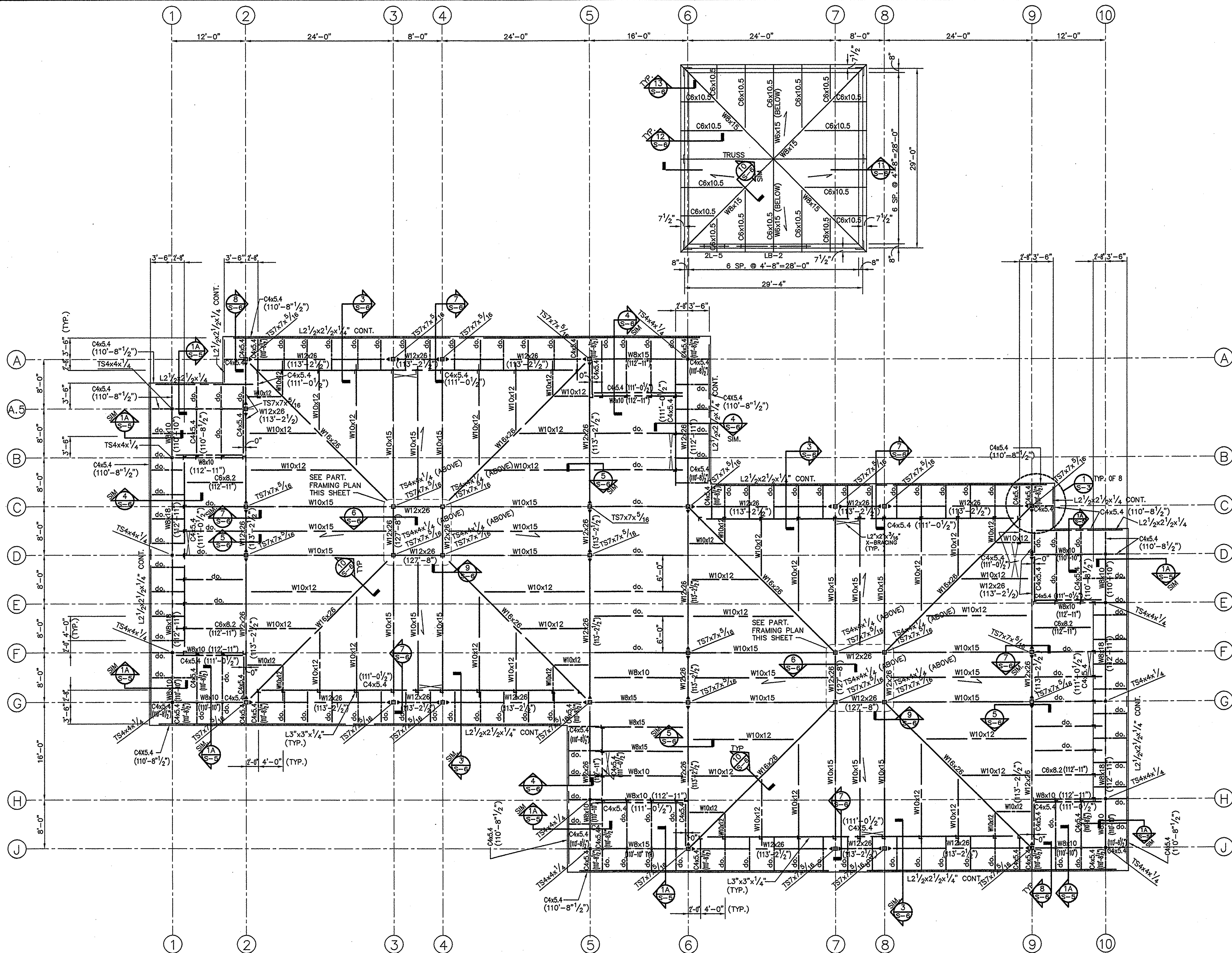
PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLOT DATE: AUGUST 23, 2004
DATE: AUGUST, 2004

S-2

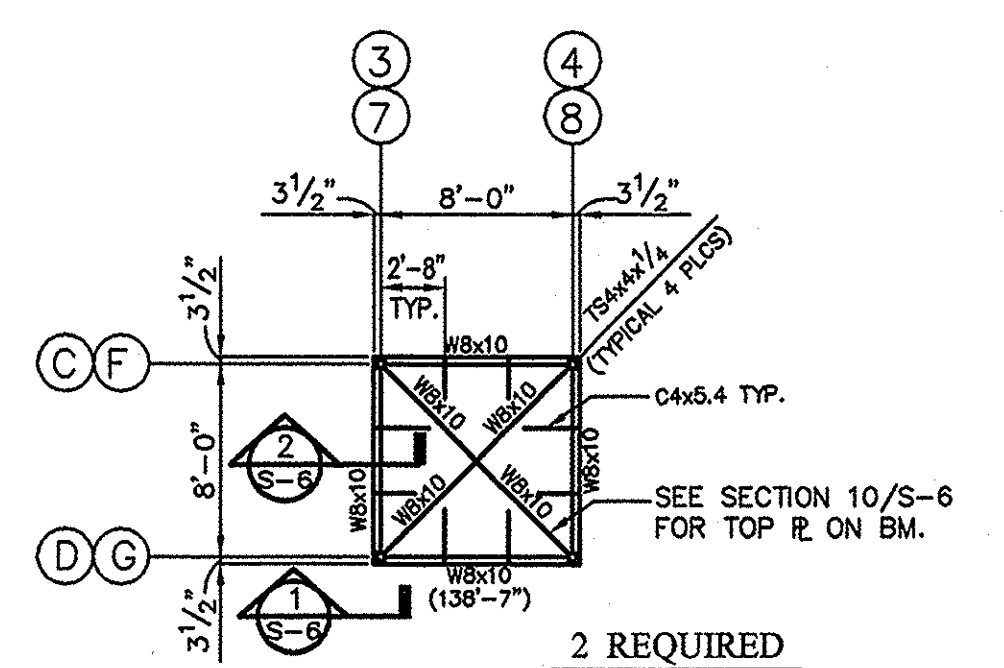
BID/CONSTRUCTION SET



ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"

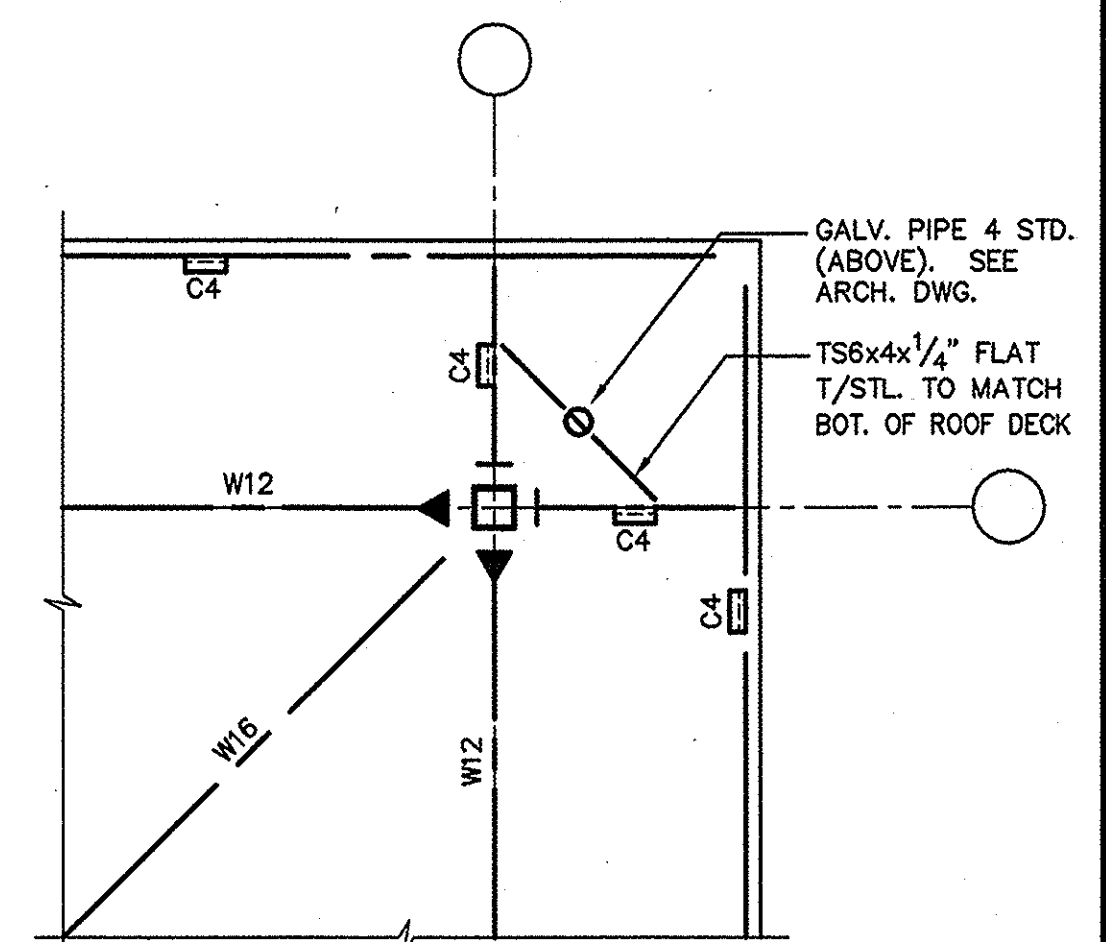
- DESIGN LIVE LOADS: ROOF SNOW LOAD BASED ON 25 PSF GROUND SNOW LOAD.
ROOF LIVE LOAD (SLOPED ROOF) - 25 PSF.
ROOF LIVE LOAD (FLAT ROOF) - 40 PSF.
- () - INDICATES TOP OF STEEL ELEVATION. SEE ARCHITECTURAL DRAWINGS FOR INDICATIONS OF SLOPING STEEL FRAMING @ HIP ROOFS.
- ROOF CONSTRUCTION: 1 1/2" X 20 GAGE GALVANIZED WIDE RIB METAL DECK.
- INDICATES MOMENT CONNECTION. SEE SECTION 8/S-6.
- INDICATES MOMENT CONNECTION AT CANTILEVERED BEAM.
- BEAMS ARE UNIFORMLY SPACED BETWEEN COLUMNS OR INTERSECTING GIRDERS UNLESS NOTED OTHERWISE.
- REFERENCES: GENERAL STRUCTURAL NOTES - S-2; LINTEL SCHEDULE - S-4.



PARTIAL FRAMING PLAN

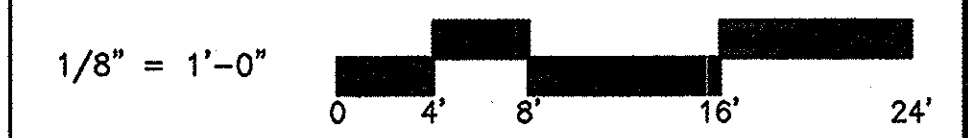
SCALE: 1/8" = 1'-0"

- NOTE:
- SEE ROOF FRAMING PLAN ON SHEET S-3 FOR PLAN NOTES.



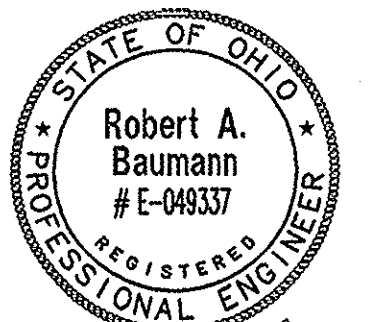
SECTION 1

3/8" = 1'-0"
TYPICAL OF 8 @ LIGHT FIXTURE.
SEE ARCH. DWG. 1/A-1.2.



CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL / STRUCTURAL:
SRA, INC. / LANTZ JONES NEBRASKA
SITE/CIVIL:
KZF DESIGN
LANDSCAPE ARCHITECTURE:
KINZELMAN KLINE

REVISIONS		
NO.	DATE	DESCRIPTION



FOR:
OHIO DEPT. OF TRANSPORTATION

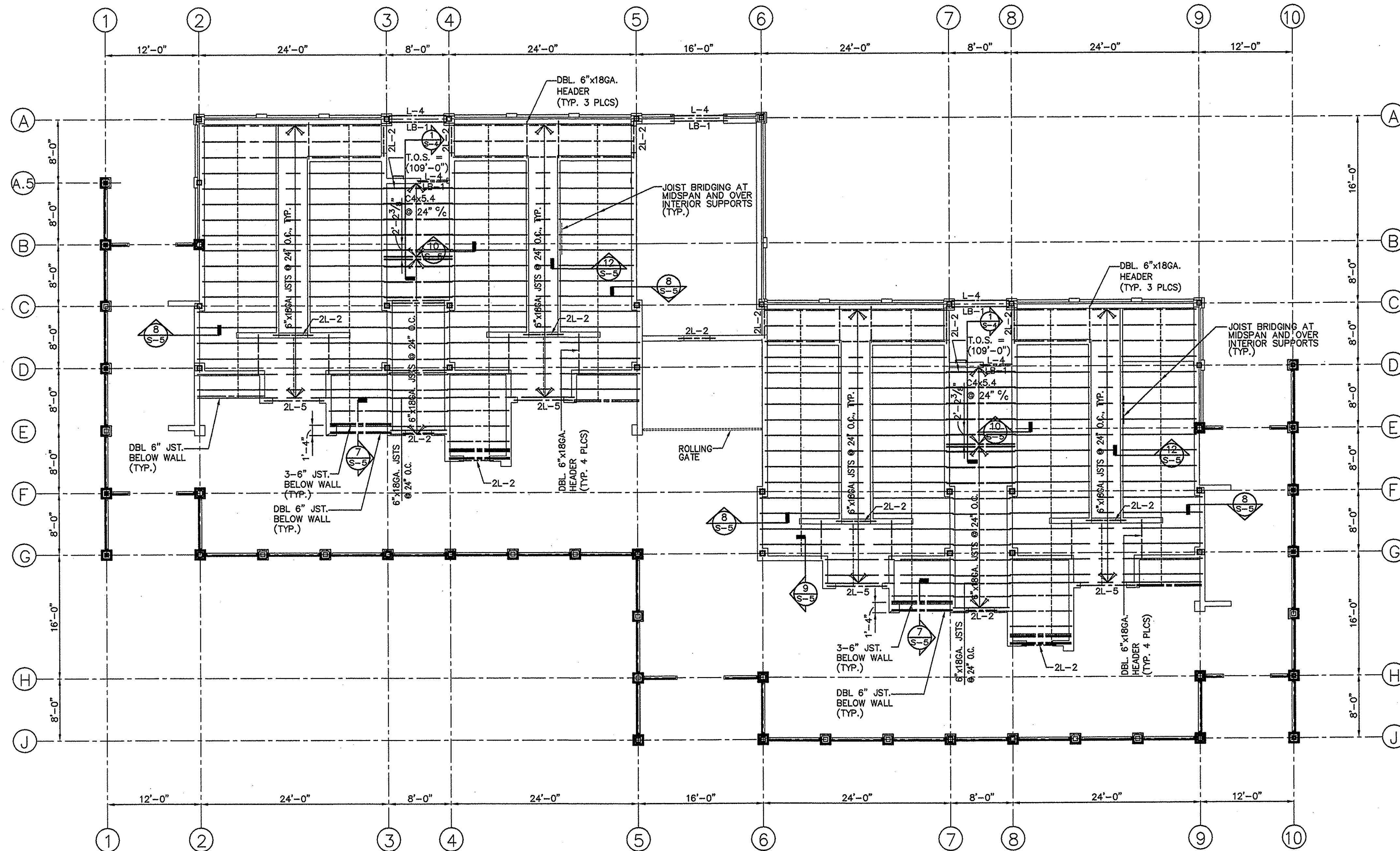
DRAWING DESCRIPTION:
ROOF FRAMING PLAN

PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLOT DATE: AUGUST 23, 2004
DATE: AUGUST, 2004
S-3

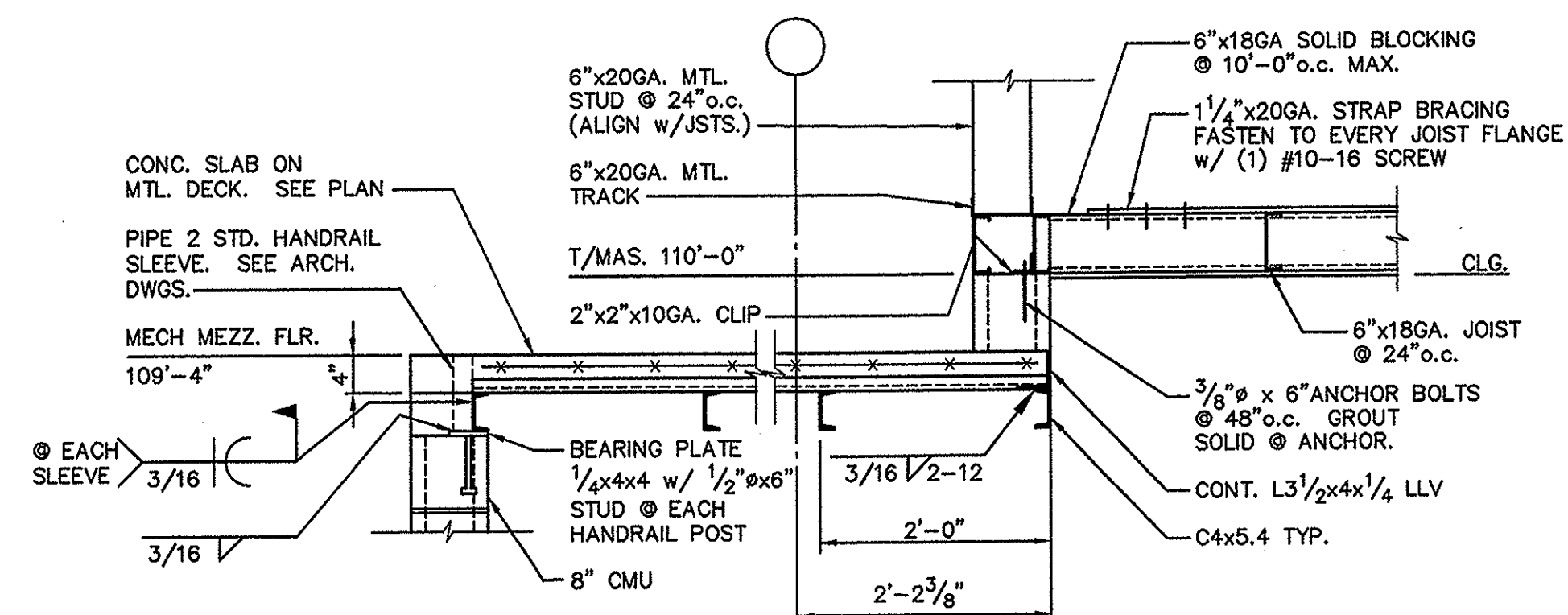
BID/CONSTRUCTION SET



MECHANICAL MEZZANINE/ CEILING FRAMING PLAN

SCALE: 1/8" = 1'-0"

- DESIGN LIVE LOADS: MECHANICAL ROOM - 125 PSF; CEILING JOISTS - 20 PSF.
- MECHANICAL MEZZANINE FINISHED FLOOR ELEVATION 109'-4" EXCEPT AS NOTED.
- () - INDICATES TOP OF STEEL ELEVATION.
- FLOOR CONSTRUCTION: 4" CONCRETE SLAB ON 0.6" X 24 GAGE METAL DECK FORM WITH 6 X 6 - W1.4 X W1.4 WWF.
- FINISH FLOOR SURFACE SHALL BE LEVEL. PROVIDE SUFFICIENT CONCRETE TO ACCOUNT FOR BEAM DEFLECTIONS DUE TO FRESHLY CAST CONCRETE.
- PROVIDE FORMS FOR ALL EDGES OF CONCRETE SLABS ON STEEL DECK. VERIFY IF FORM IS TO BE TEMPORARY, OR SHALL BE PERMANENT.
- BEAMS ARE UNIFORMLY SPACED BETWEEN COLUMNS OR INTERSECTING GIRDERS UNLESS NOTED OTHERWISE.
- REFERENCES: GENERAL STRUCTURAL NOTES - S-2; LINTEL SCHEDULE - S-4.



SECTION 1
3/4" = 1'-0"

STEEL LINTEL SCHEDULE

MARK	SIZE	SECT.	BR'G.	REMARKS
L-1	L3 1/2"x3 "x1/4"	L	4"	(LLH)
L-2	L3 1/2"x3 1/2"x1/4"	L	4"	
L-3	L4"x3 1/2"x5/16"	L	6"	(LLV)
L-4	L5"x3 1/2"x5/16"	L	6"	(LLV)
L-5	L6"x3 1/2"x5/16"	L	8"	(LLV)
LB-1	W8x18	I	8"	BOT. PLATE 1/4"x13
LB-2	W16x36	I	8"	BOT. PLATE 5/16"x13

GALVANIZE ALL EXTERIOR LINTELS.

SEE GENERAL NOTES ON S-2 FOR LINTELS NOT SHOWN OR NOTED ON DRAWINGS.

1/8" = 1'-0"

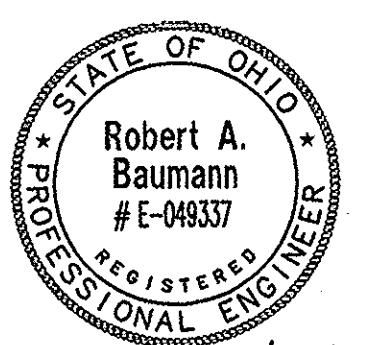


CONSULTING ARCHITECTS & ENGINEERS

ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL, ELECTRICAL / STRUCTURAL:
SRA, INC. / LANTZ JONES NEBRASKA
SITE/CIVIL:
KZF DESIGN
LANDSCAPE ARCHITECTURE:
KINZELMAN KLINE

REVISIONS

NO.	DATE	DESCRIPTION



Robert Baumann 8/23/04

FOR:
OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
MECHANICAL MEZZANINE/CEILING
FRAMING PLAN

PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

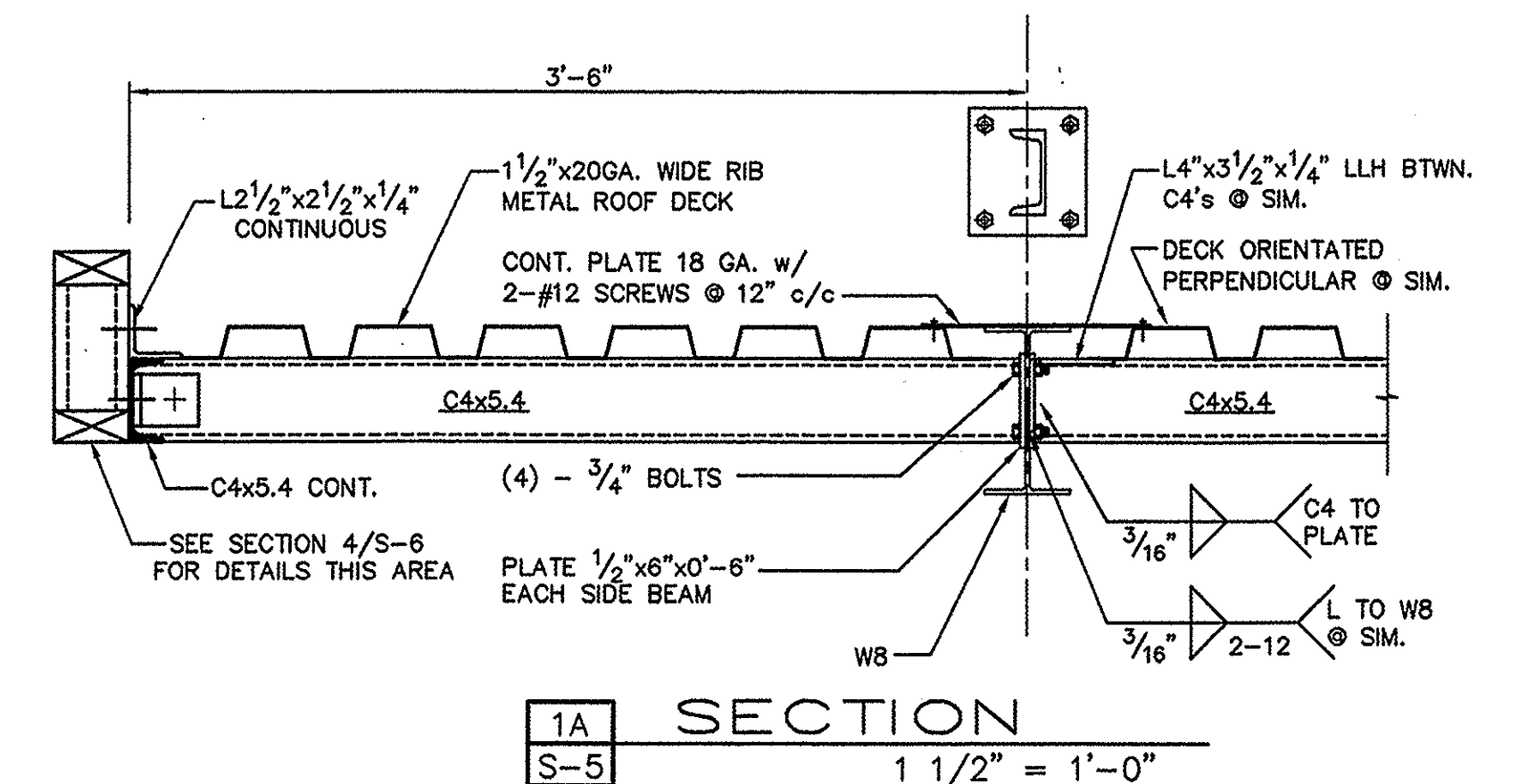
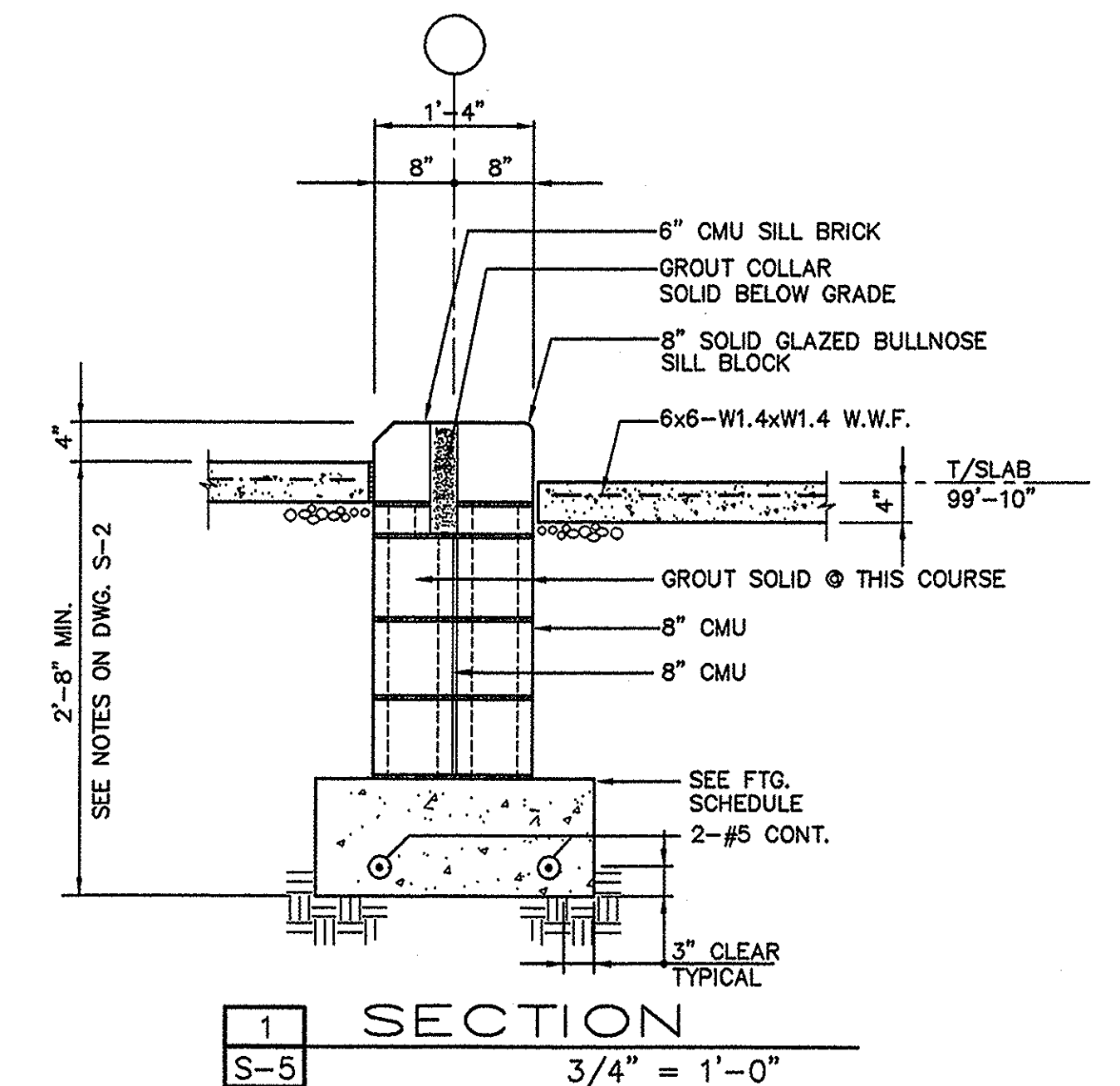
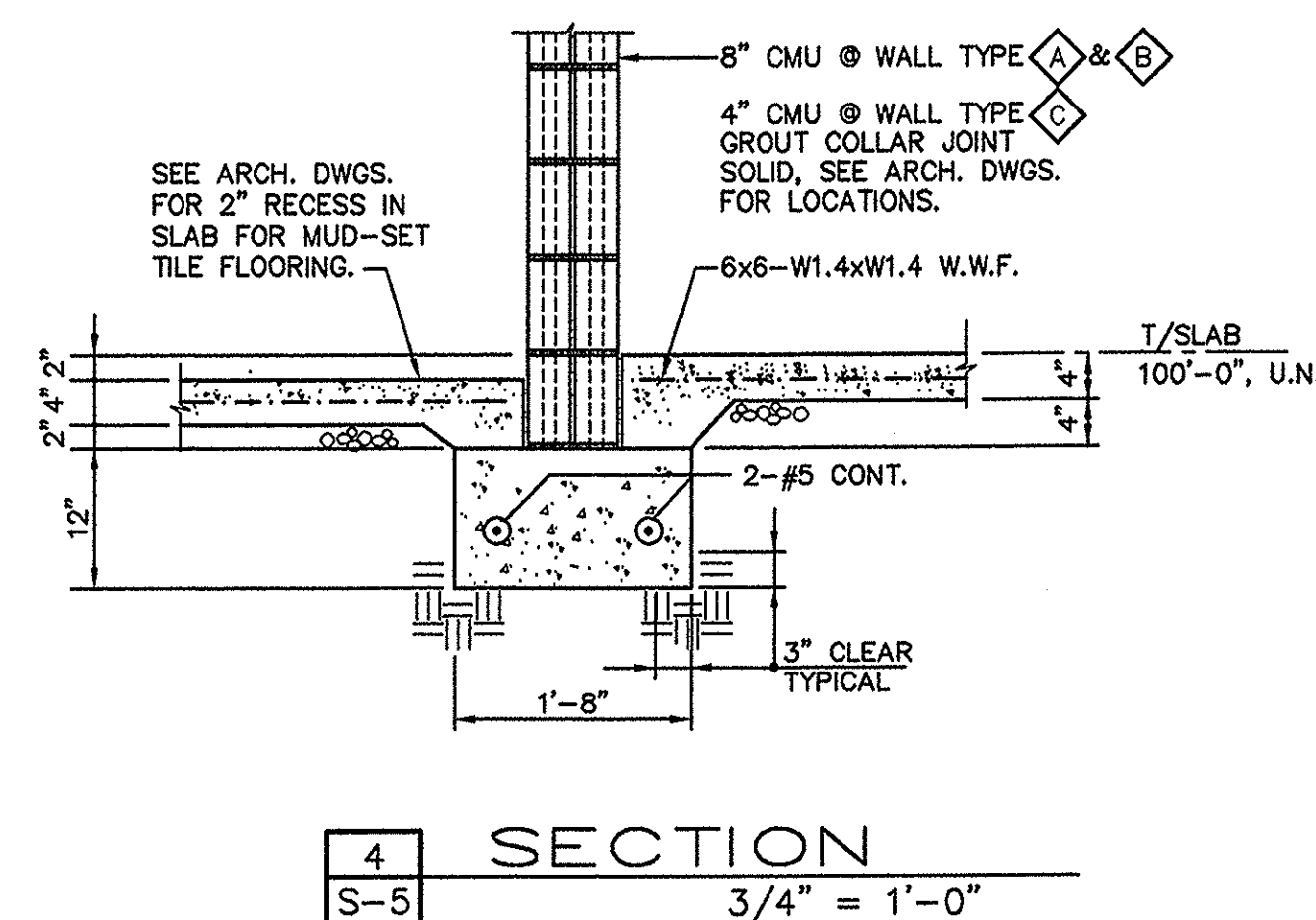
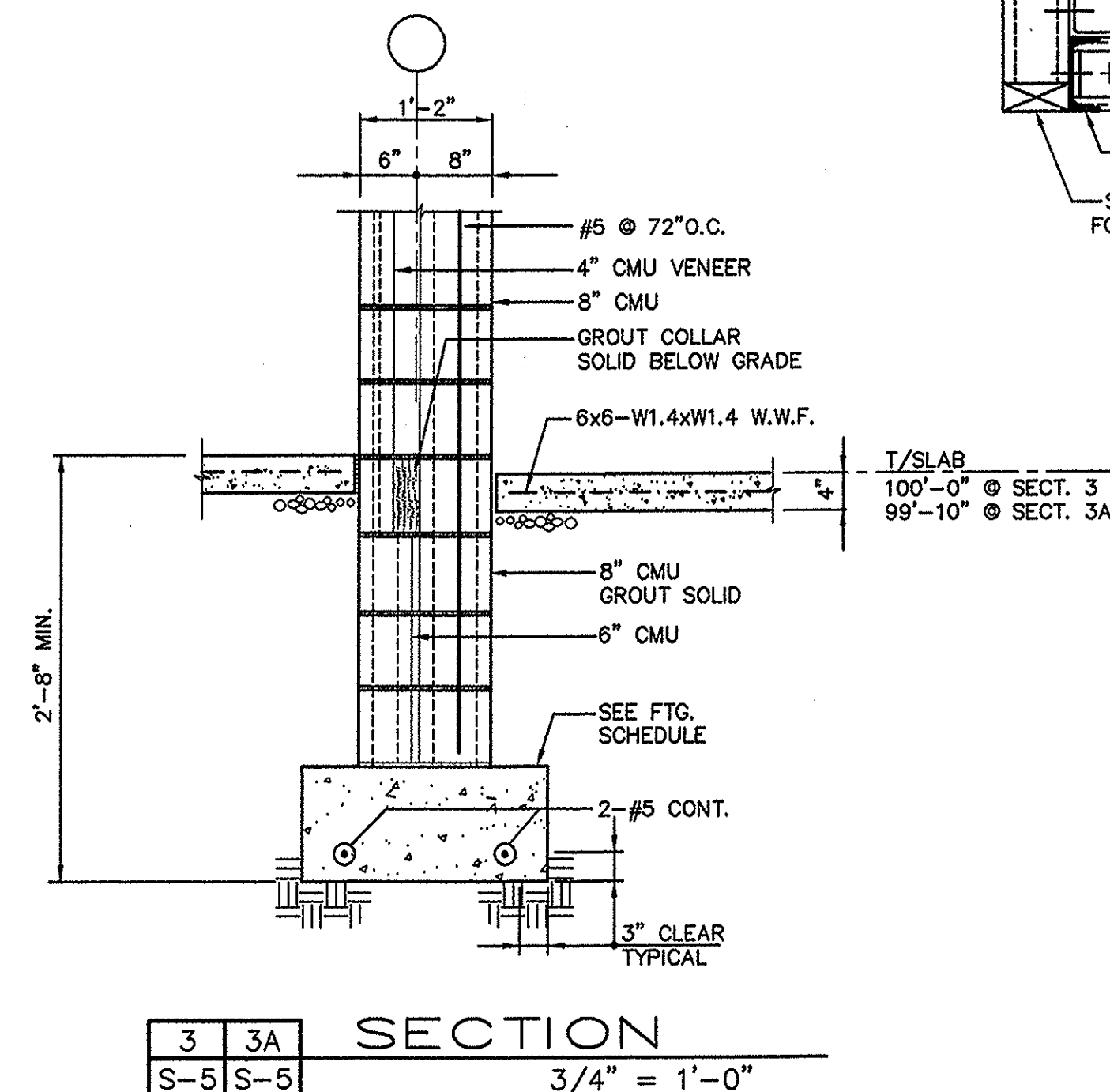
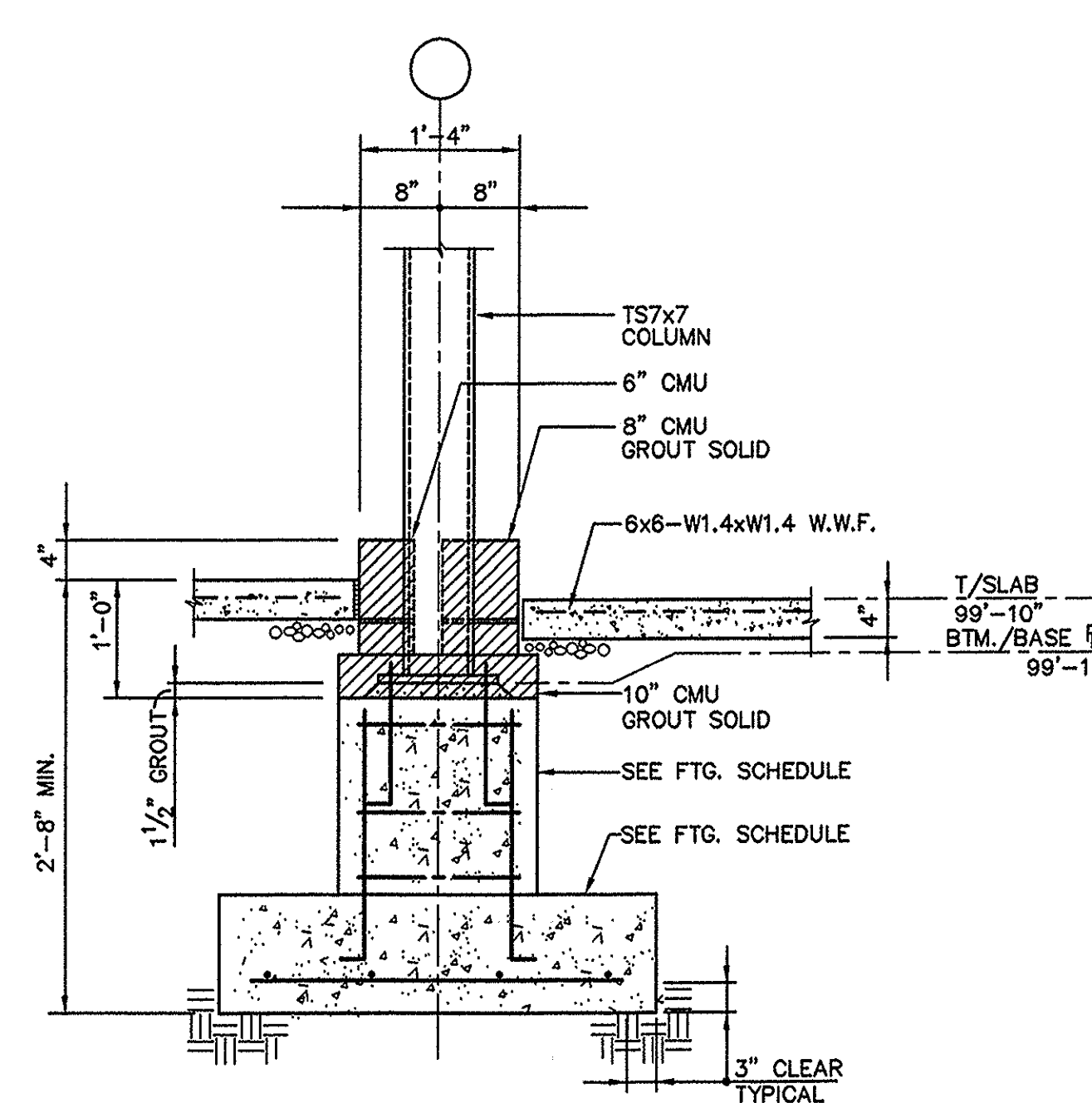
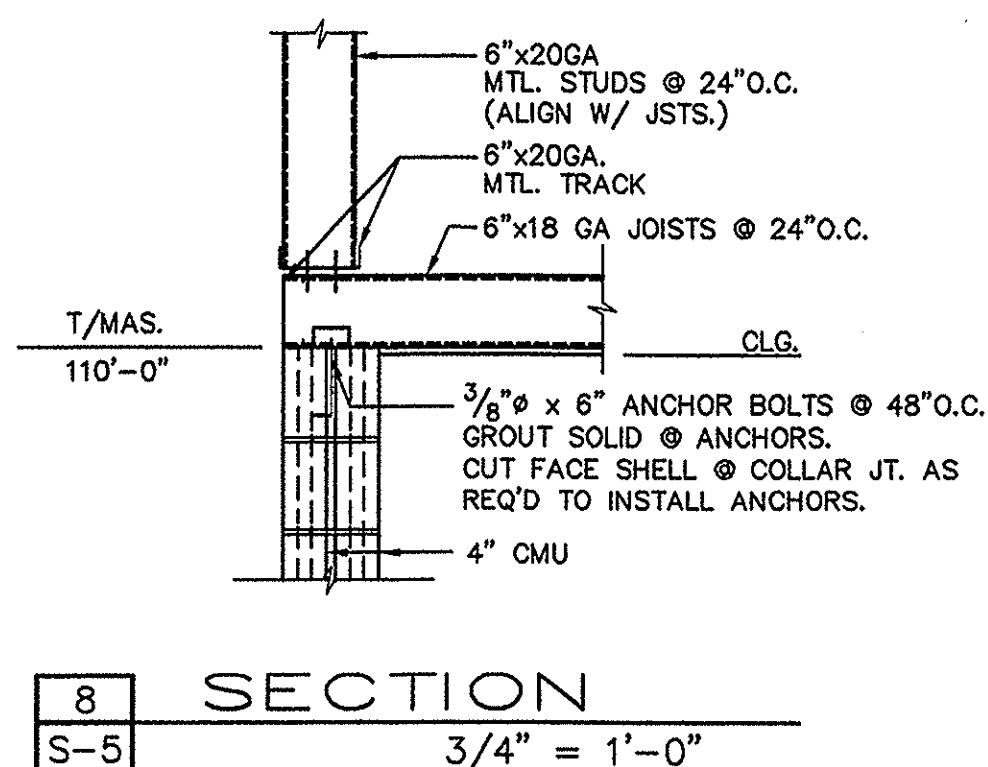
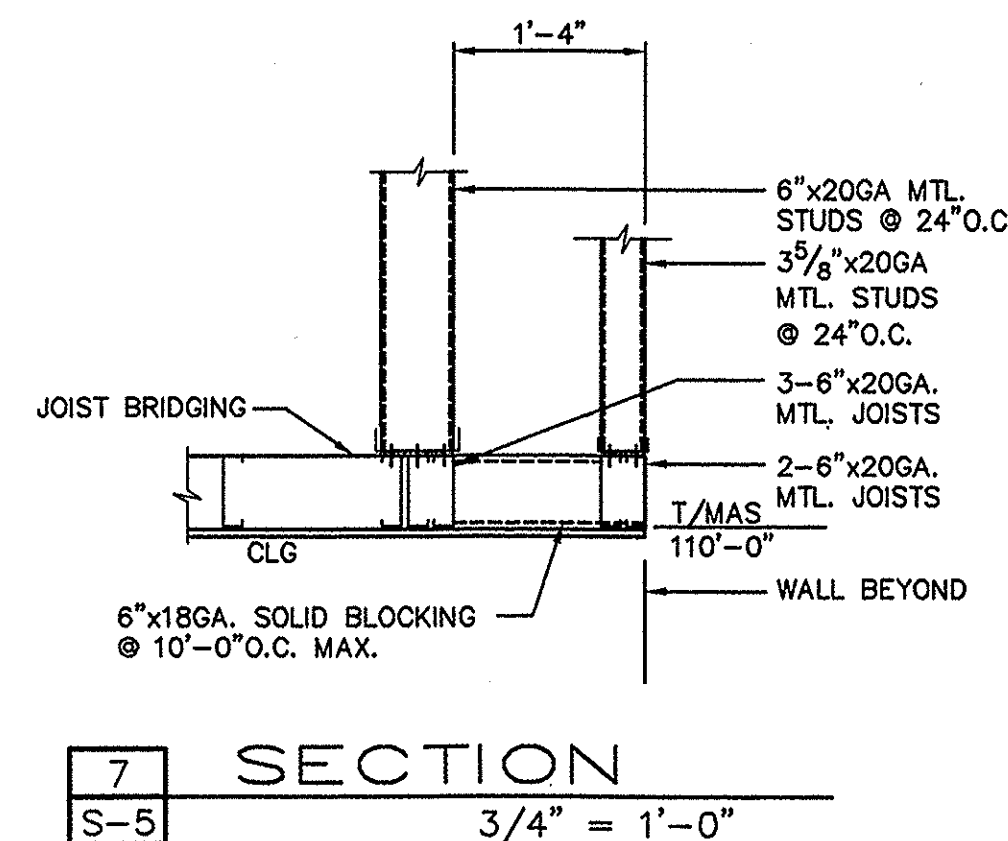
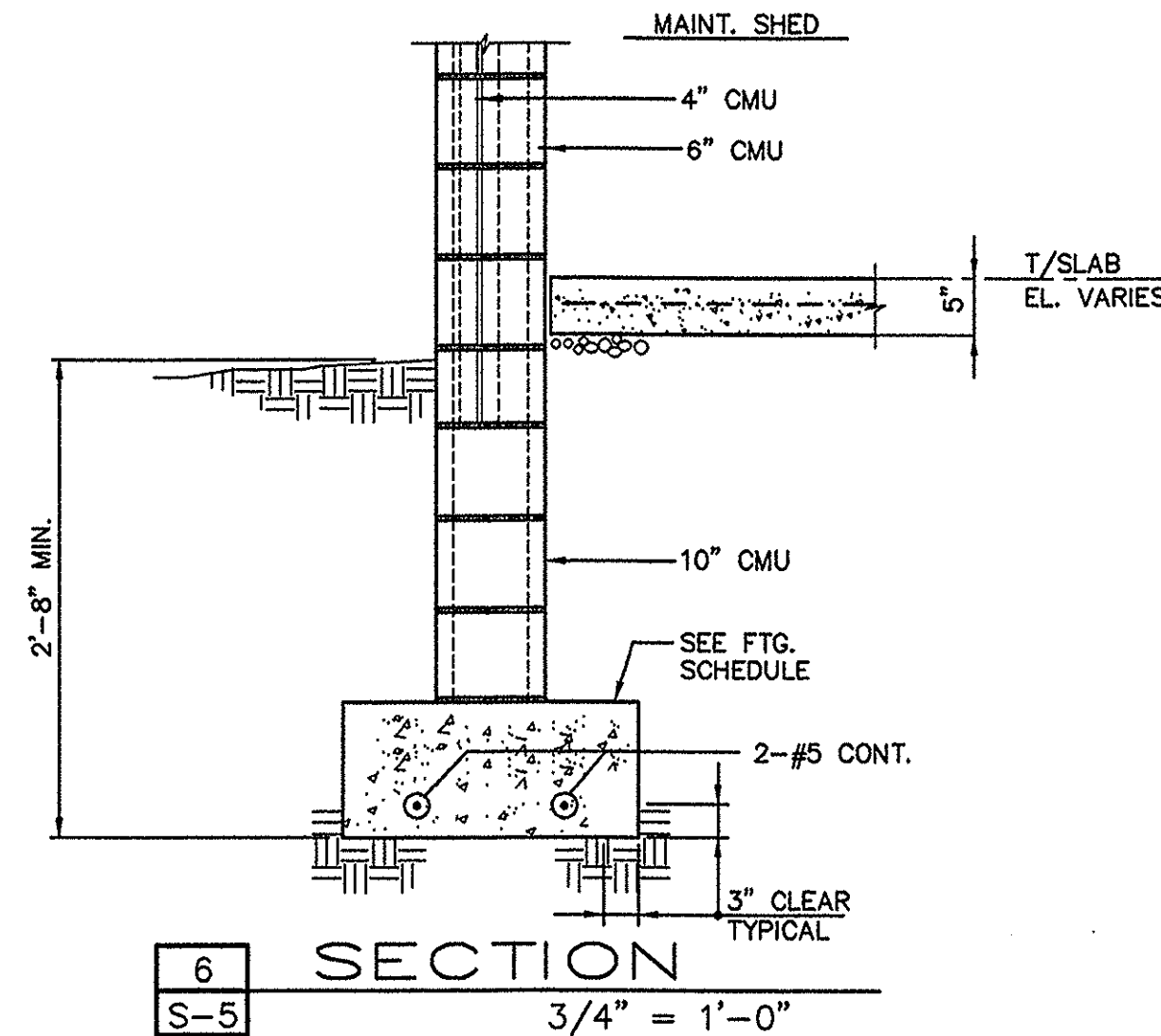
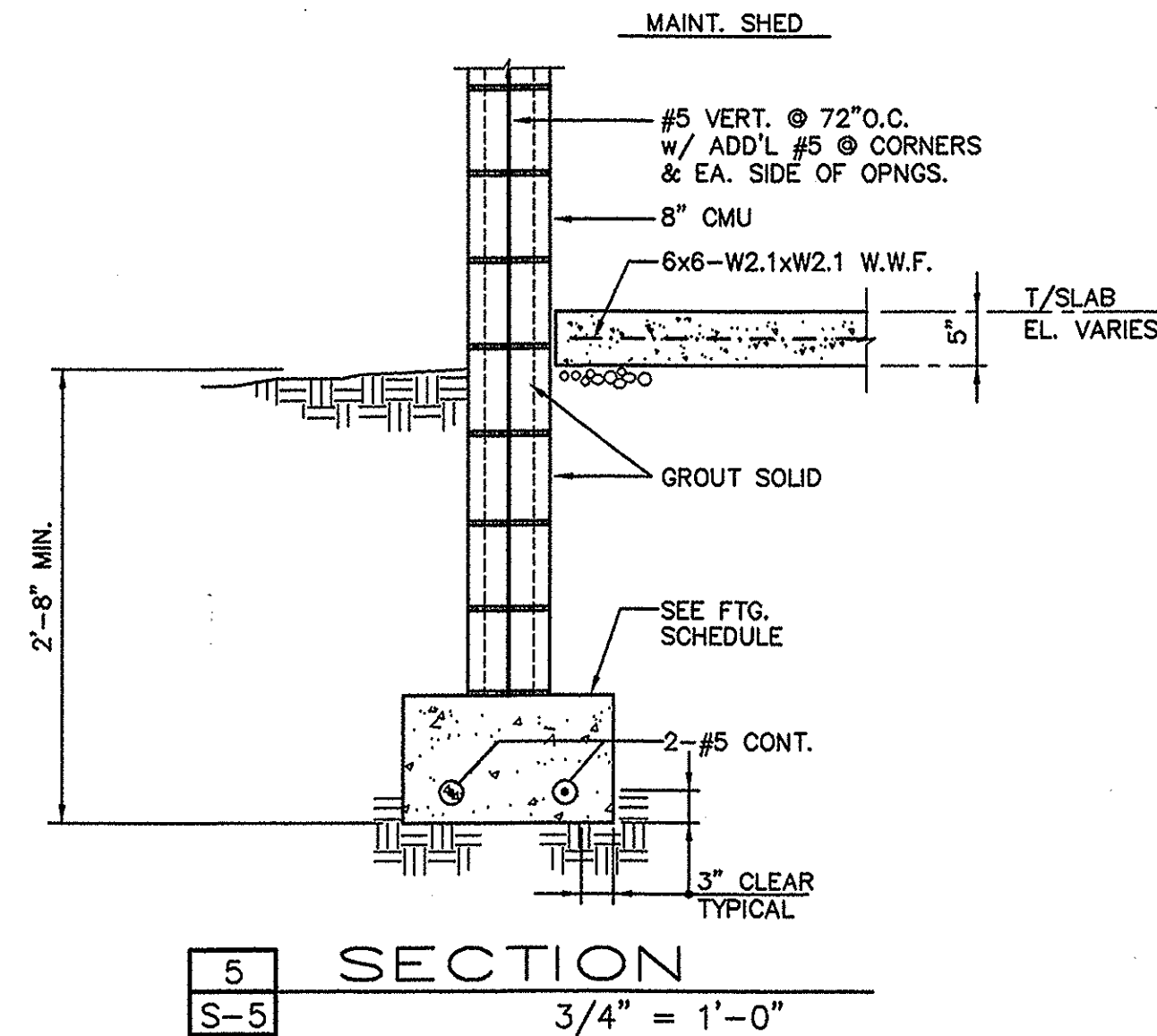
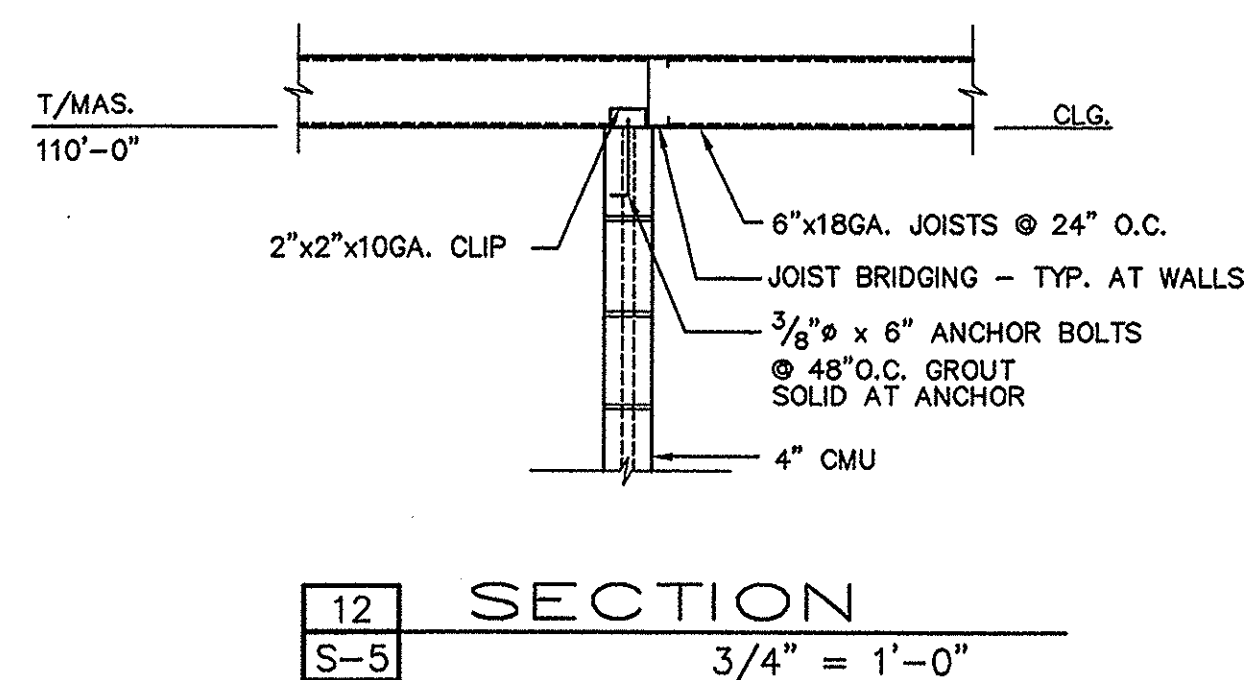
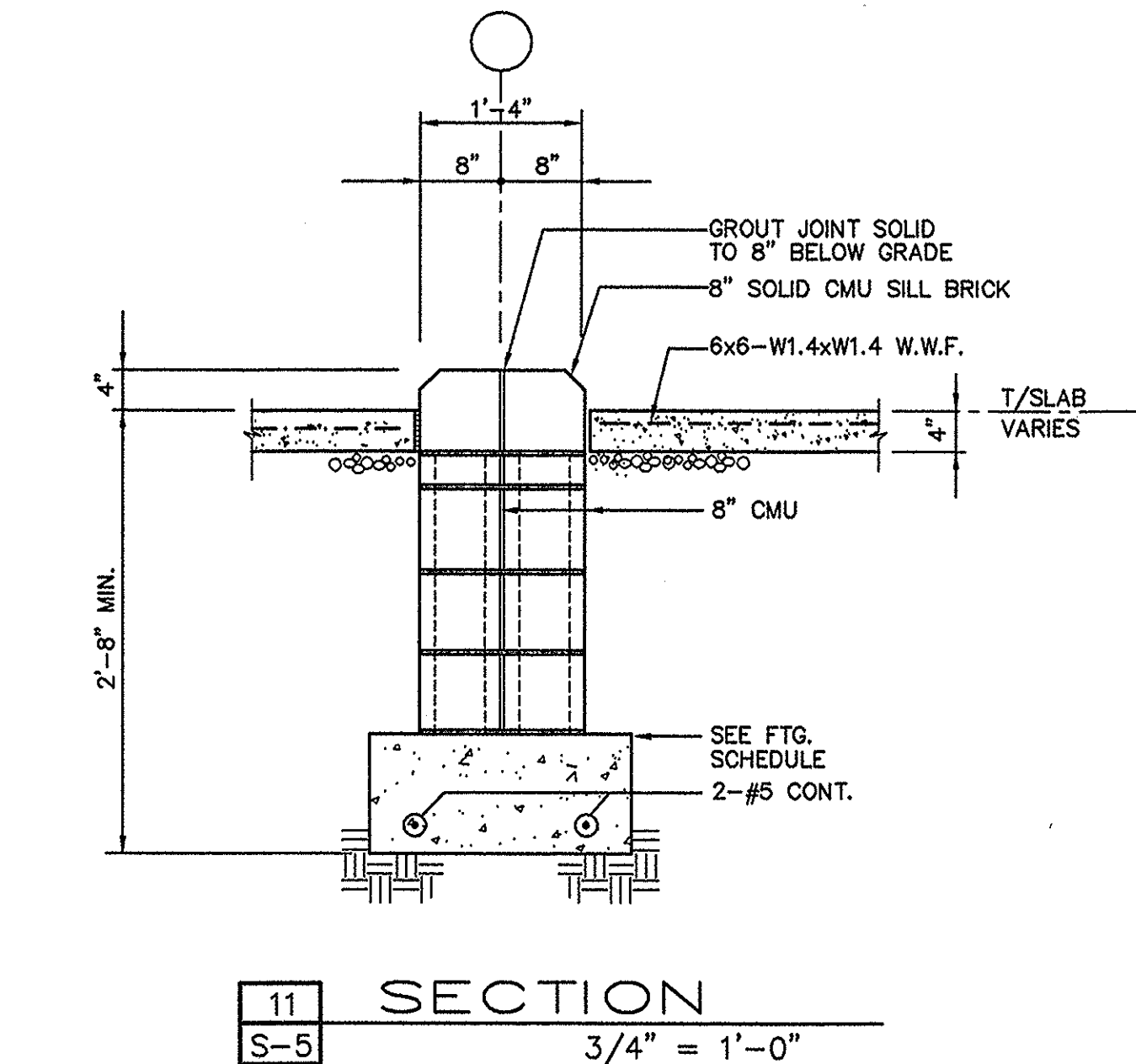
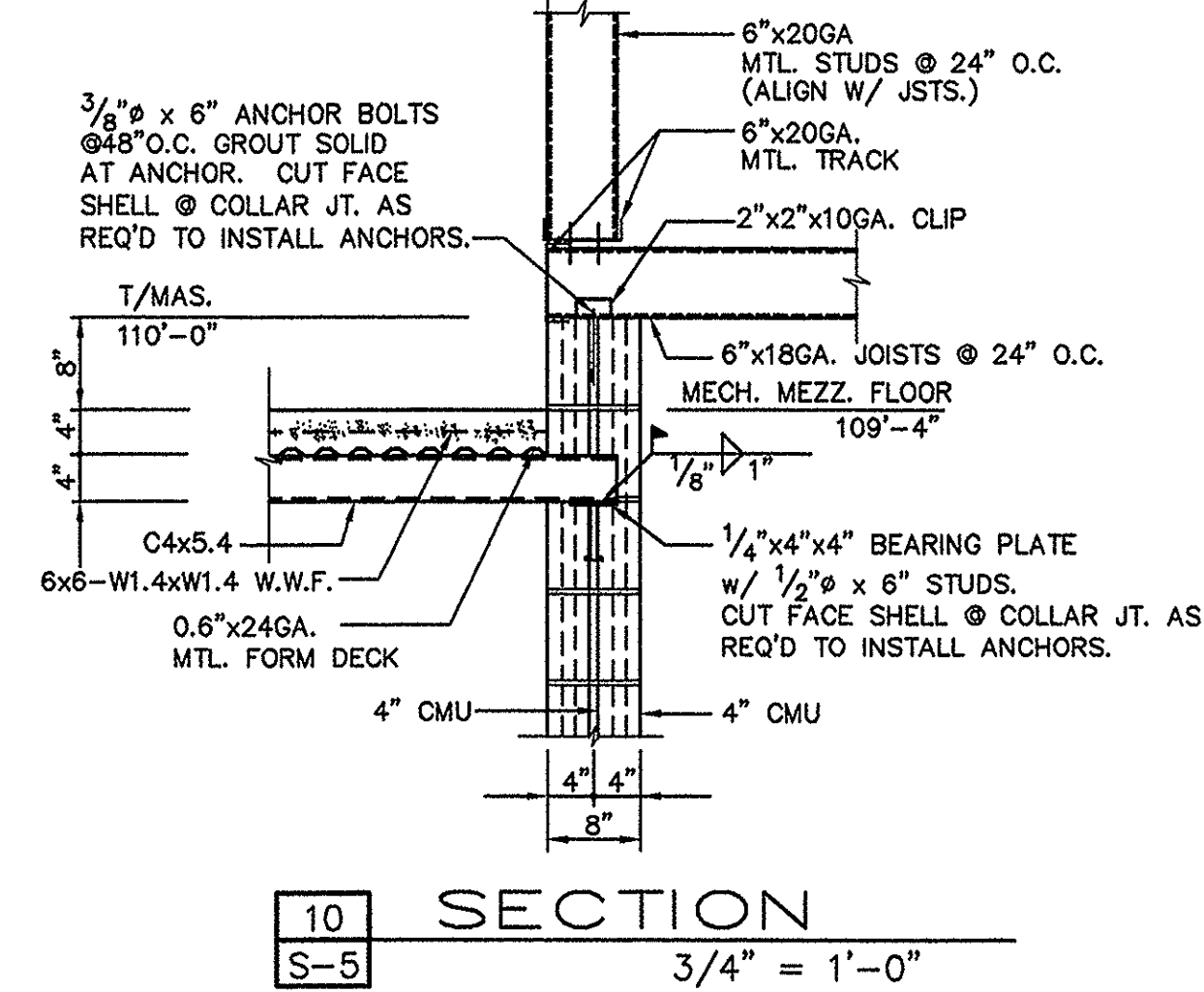
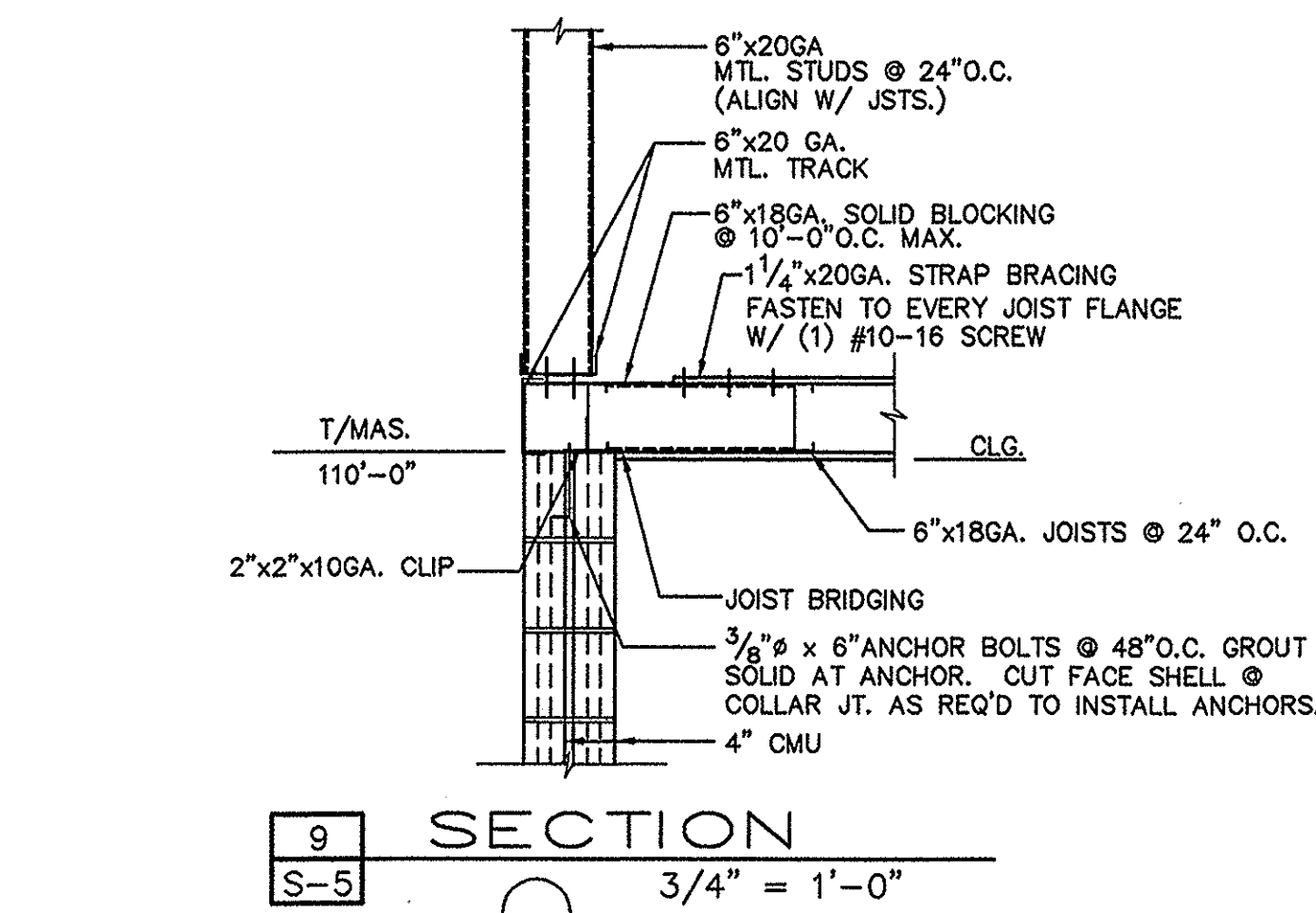
STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY:
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLOT DATE
AUGUST 23, 2004

DATE
AUGUST, 2004

S-4

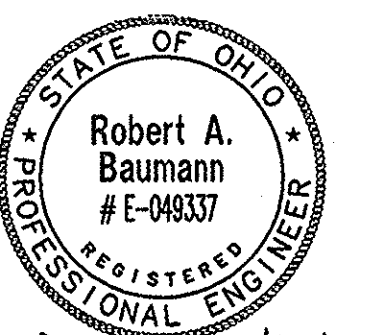
BID/CONSTRUCTION SET



3/4" = 1'-0"

CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL / ELECTRICAL / STRUCTURAL
SRA, INC. / LANTZ JONES NEBRASKA
SITE/CIVIL:
KZF DESIGN
LANDSCAPE ARCHITECTURE:
KINZELMAN KLINE

REVISIONS		
NO.	DATE	DESCRIPTION



Robert A. Baumann 8/23/04

FOR: OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
FOUNDATION DETAILS

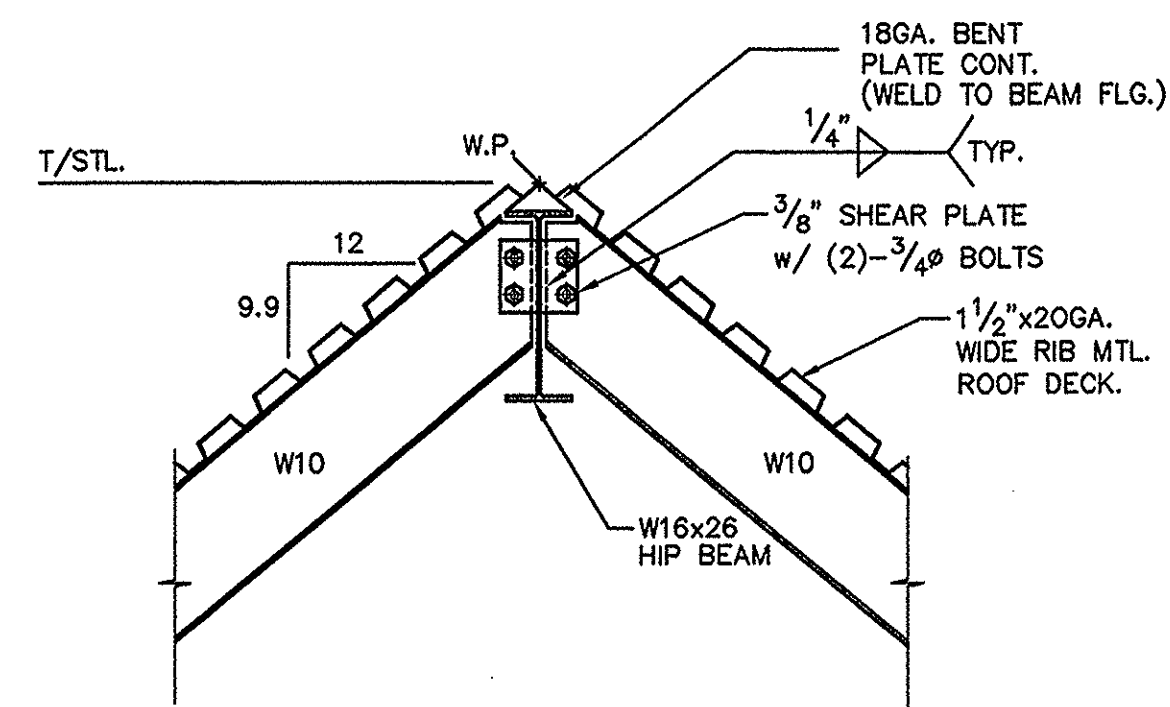
PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION

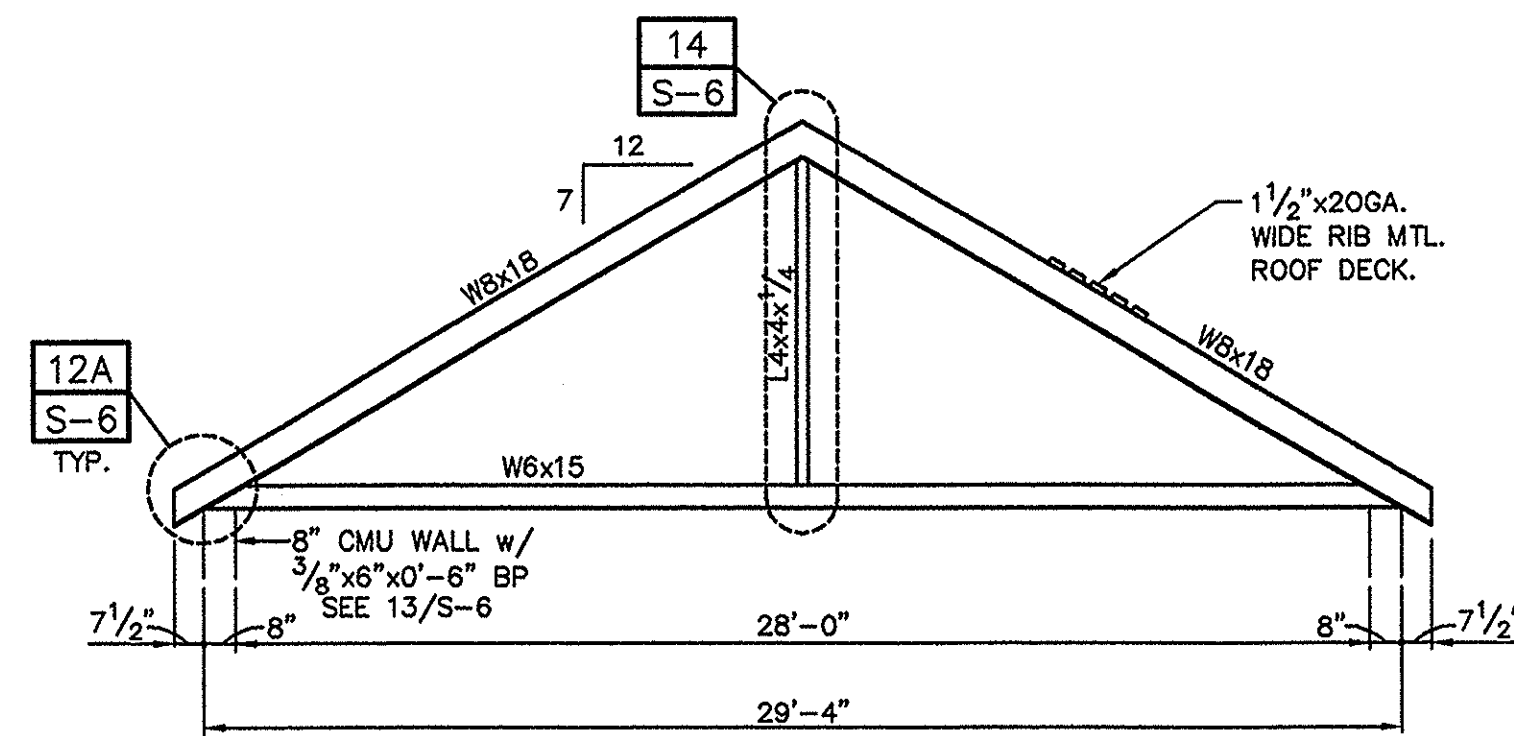
PREPARED BY:
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLOT DATE: AUGUST 23, 2004 DATE: AUGUST, 2004 S-5

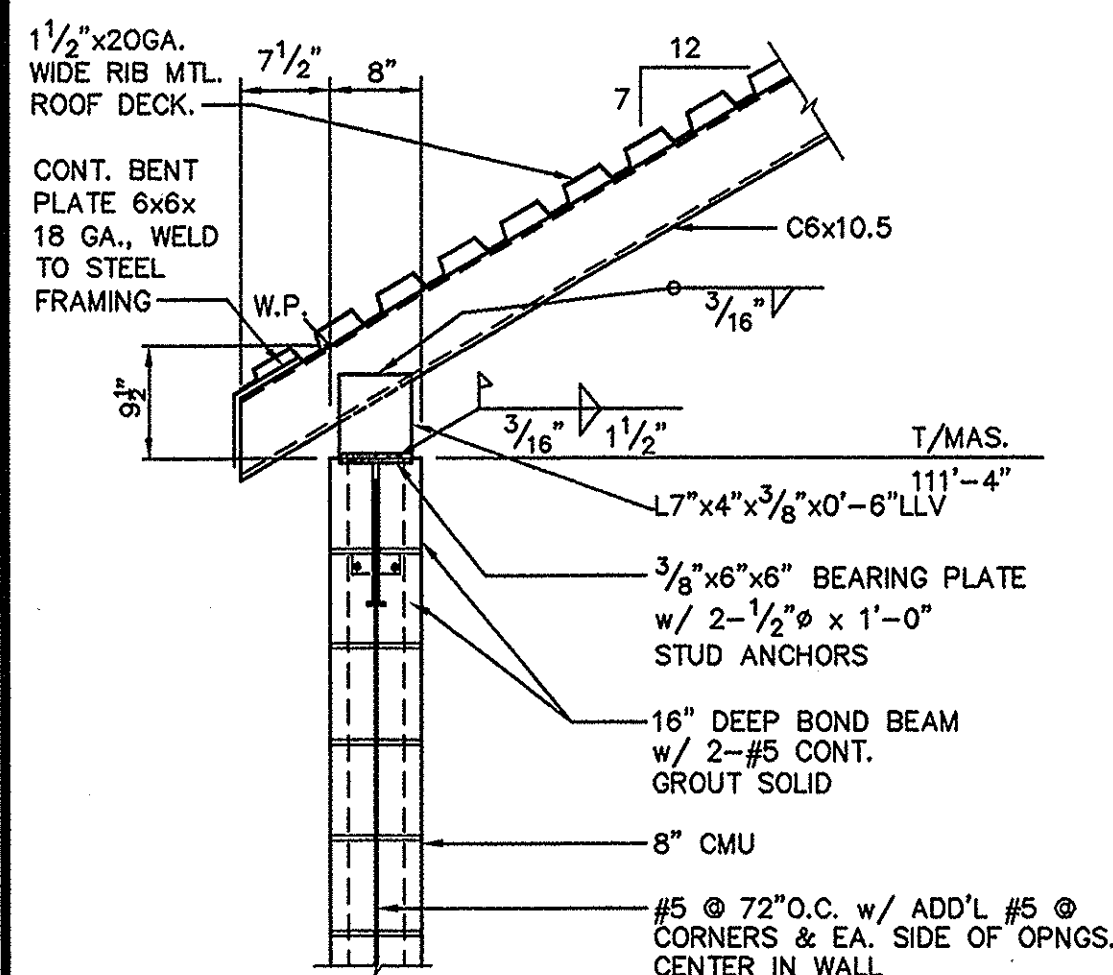
BID/CONSTRUCTION SET



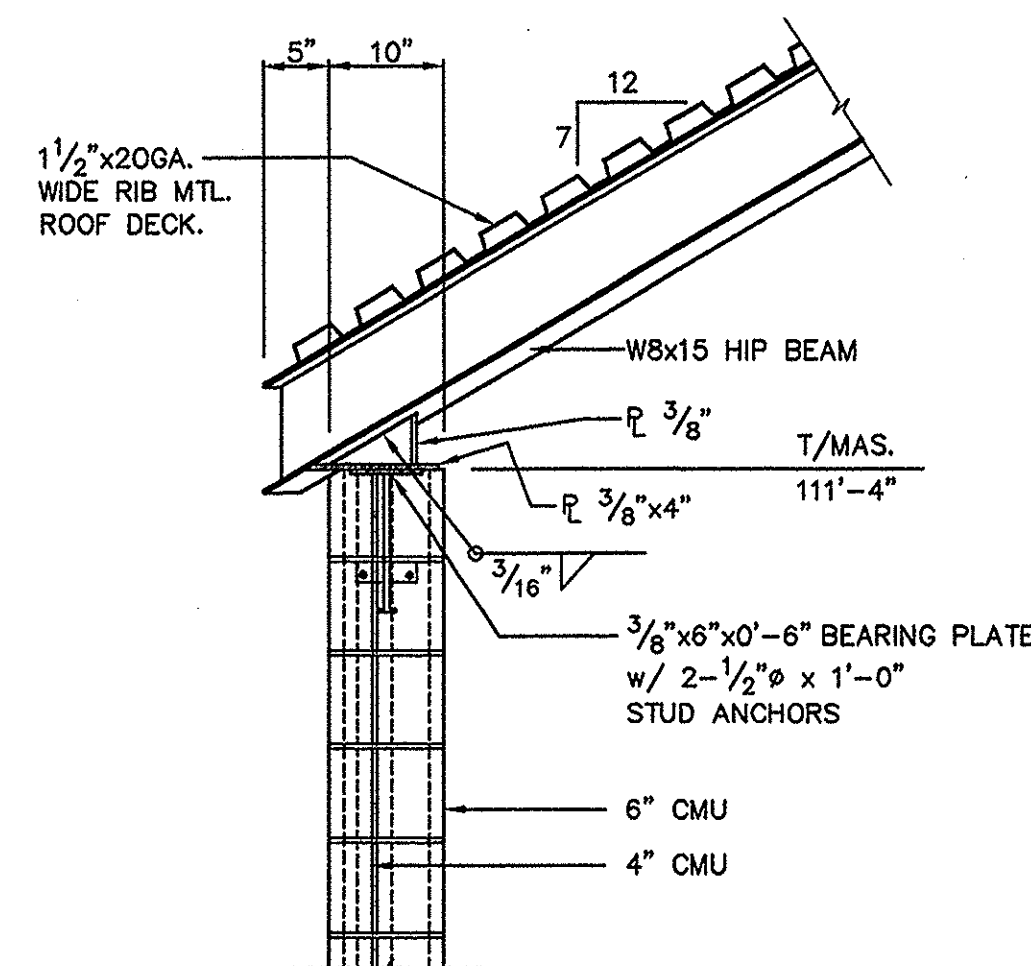
10 SECTION
S-6 3/4" = 1'-0"



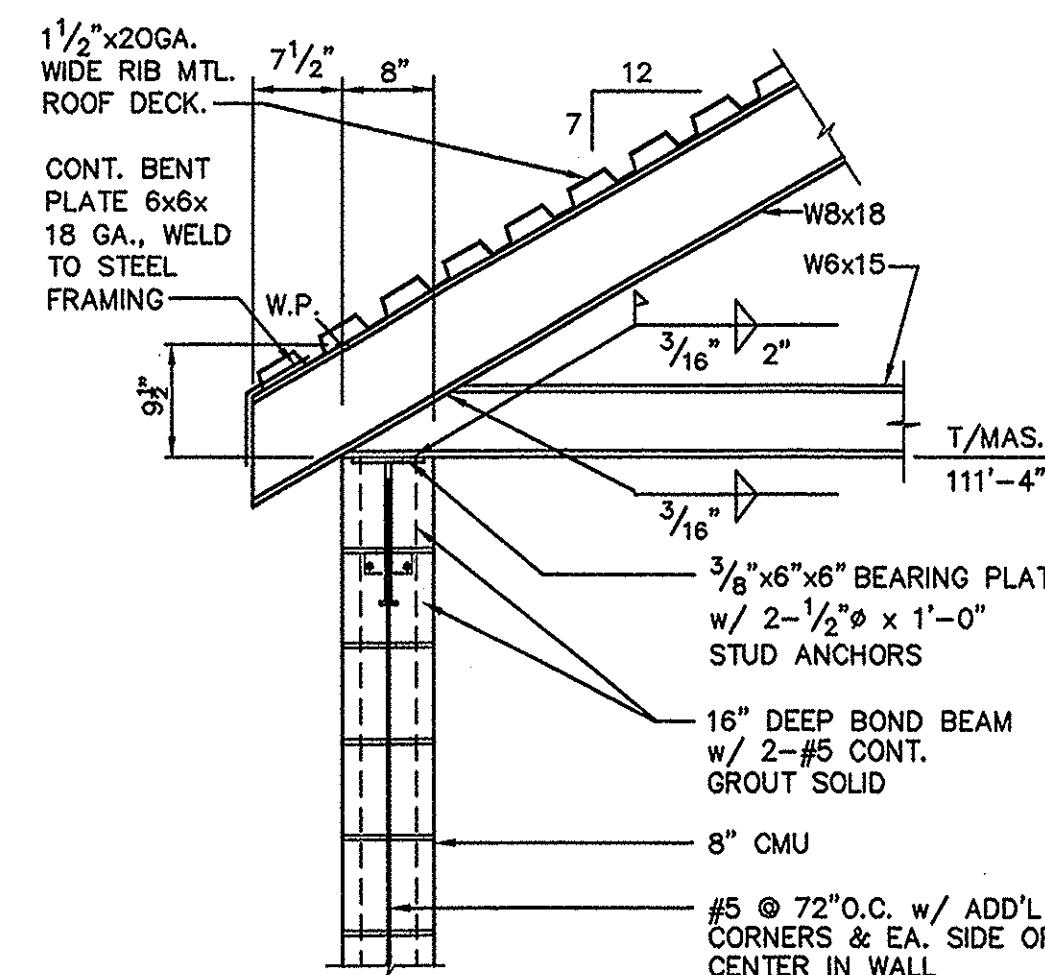
11 SECTION
S-6 1/4" = 1'-0"



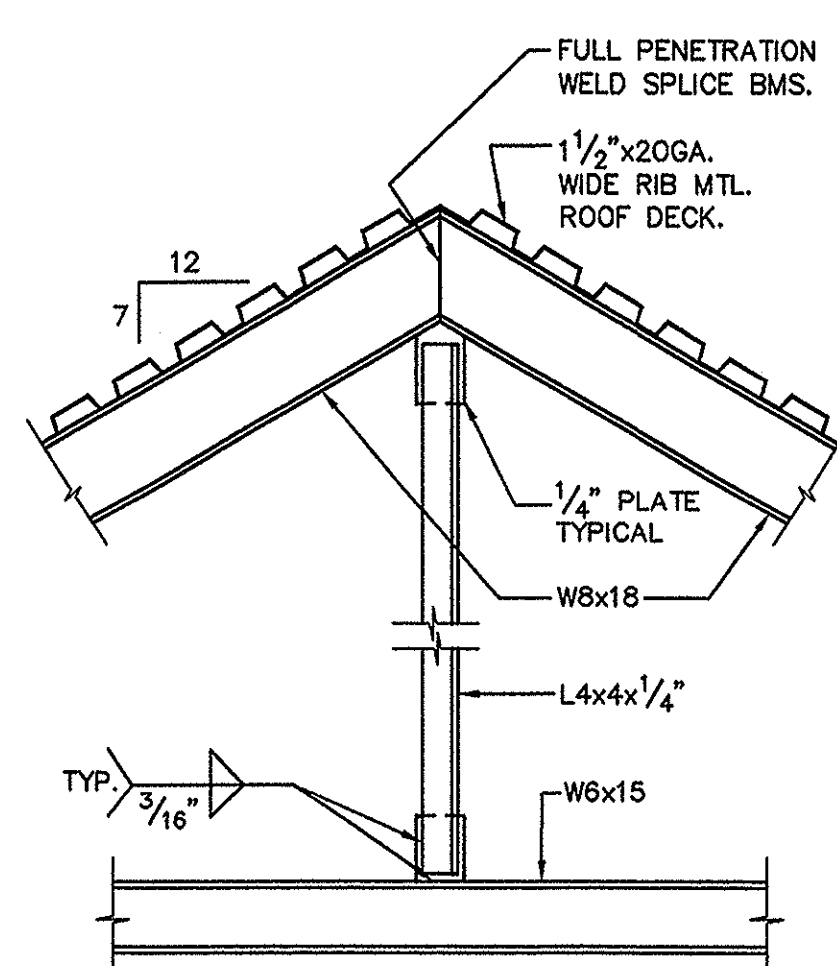
12 SECTION
S-6 3/4" = 1'-0"



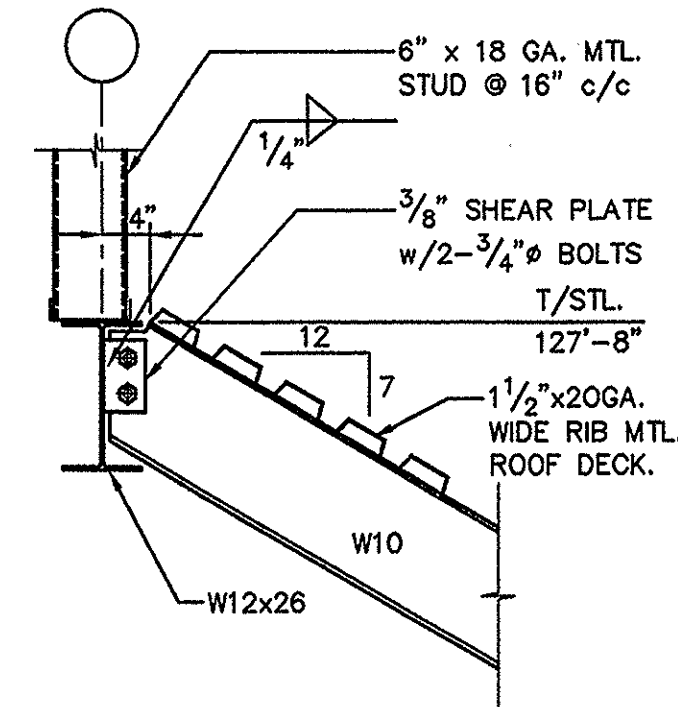
13 SECTION
S-6 3/4" = 1'-0"



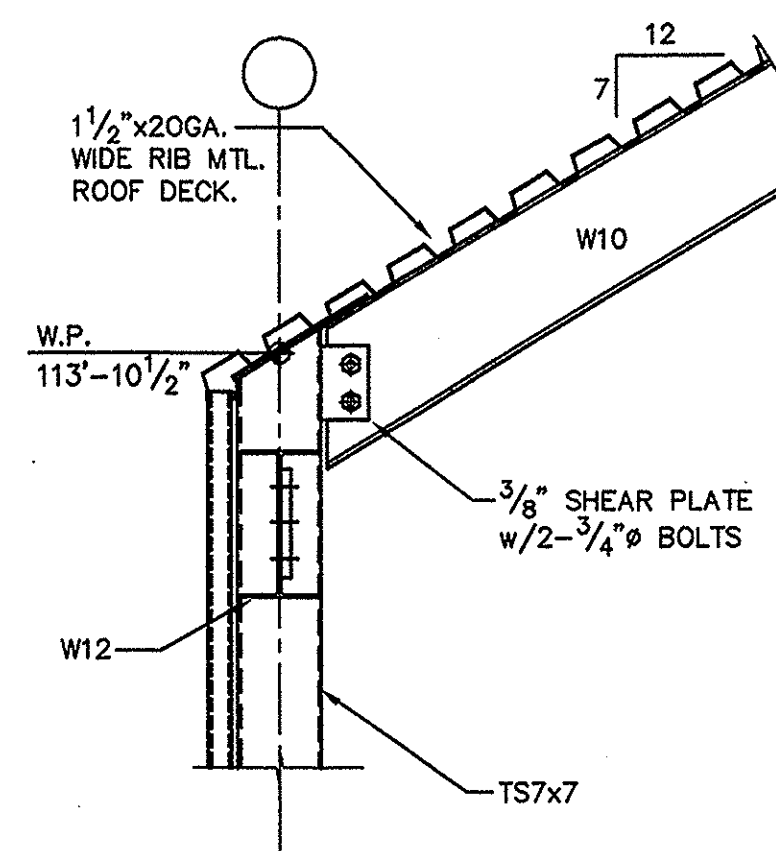
12A SECTION
S-6 3/4" = 1'-0"



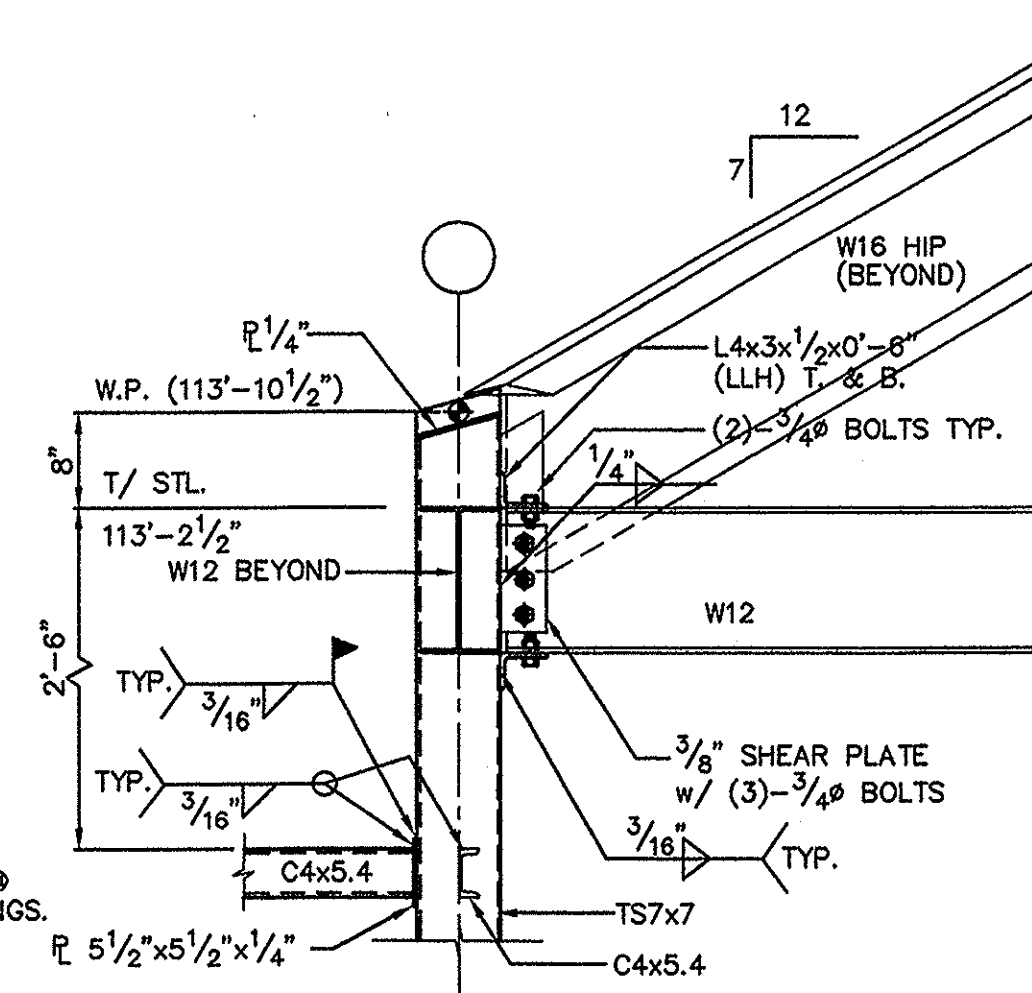
14 SECTION
S-6 3/4" = 1'-0"



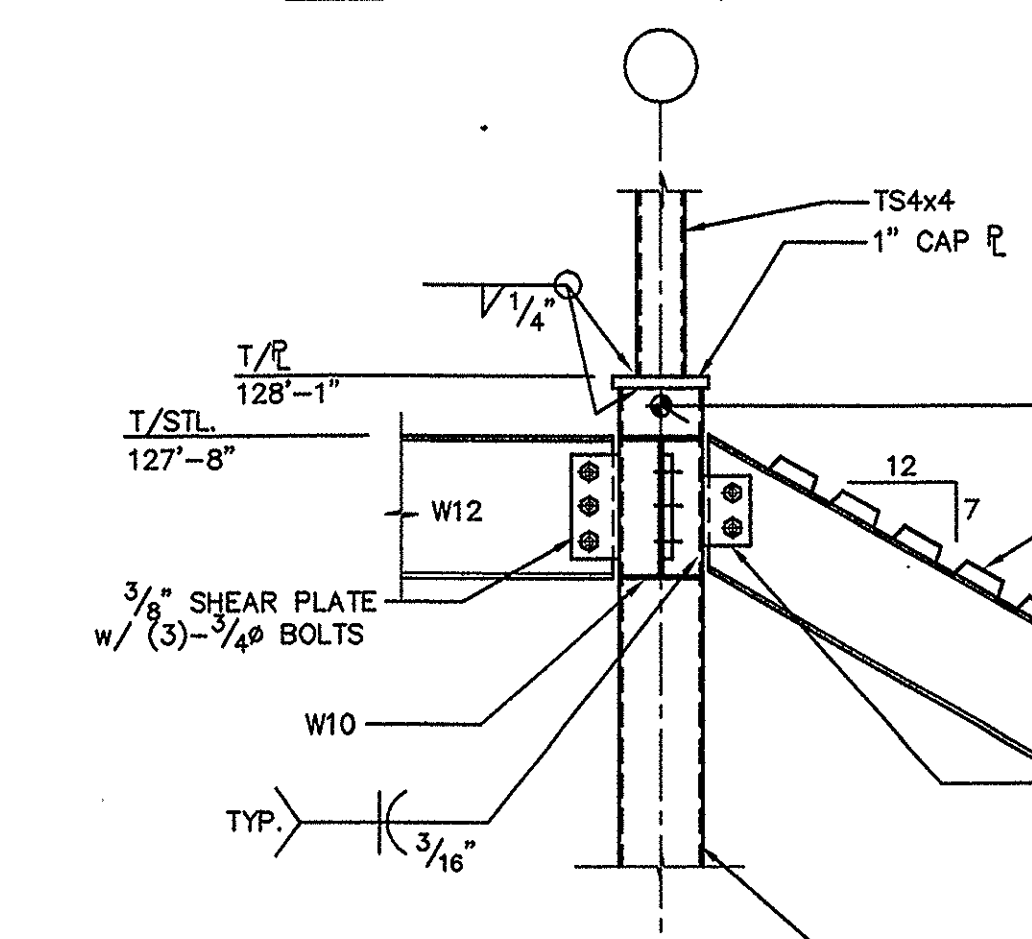
6 SECTION
S-6 3/4" = 1'-0"



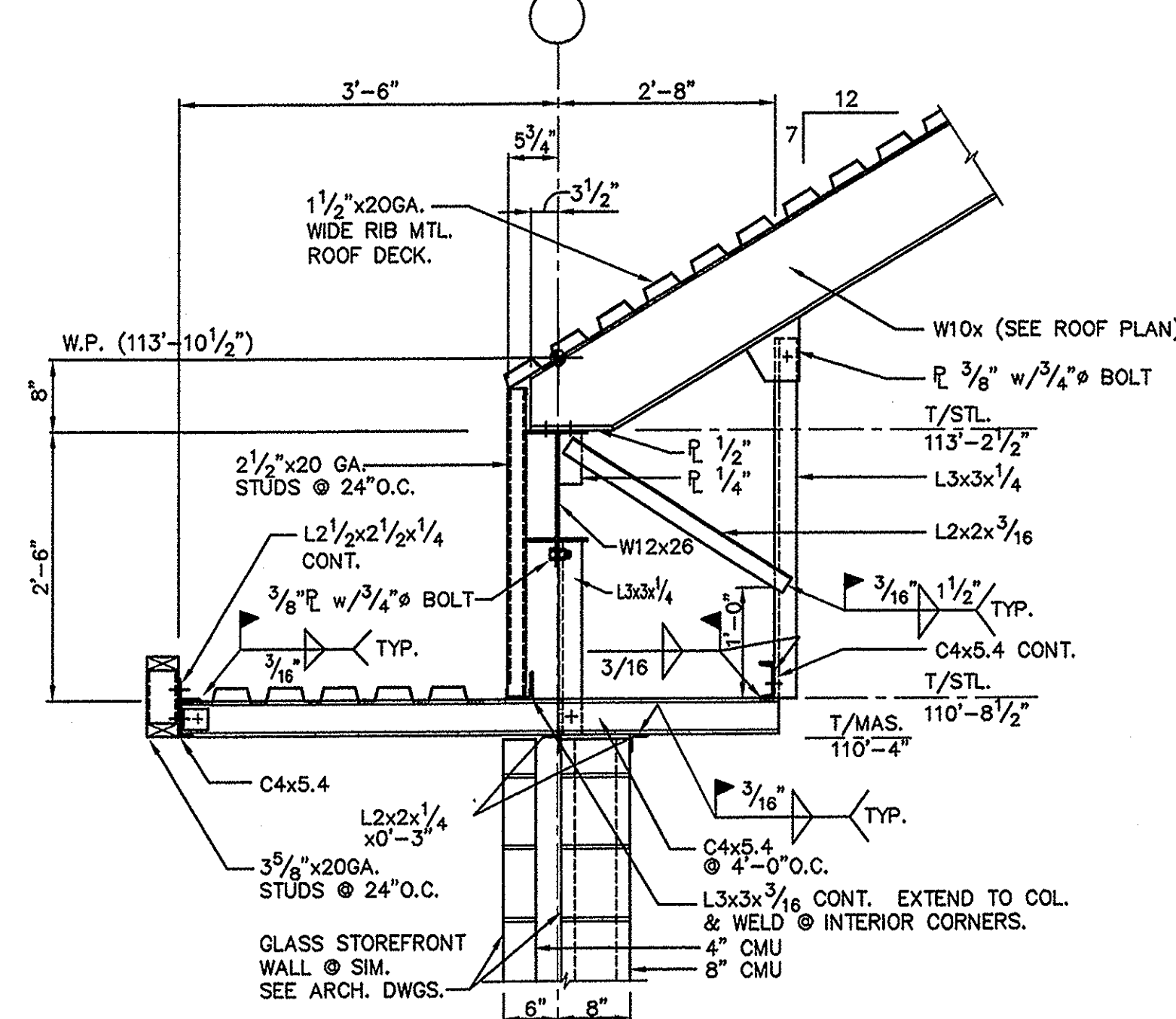
7 SECTION
S-6 3/4" = 1'-0"



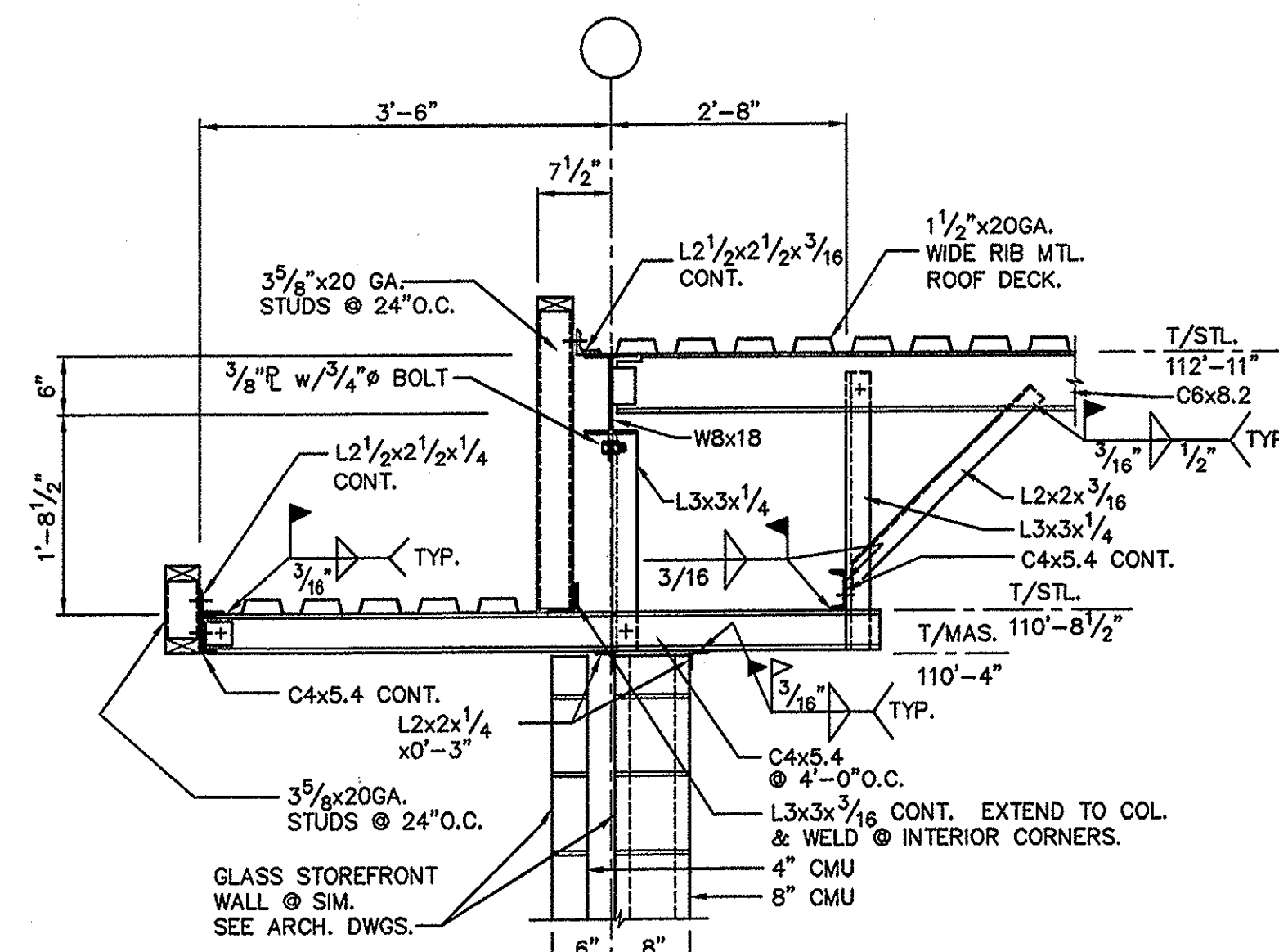
8 SECTION
S-6 3/4" = 1'-0"



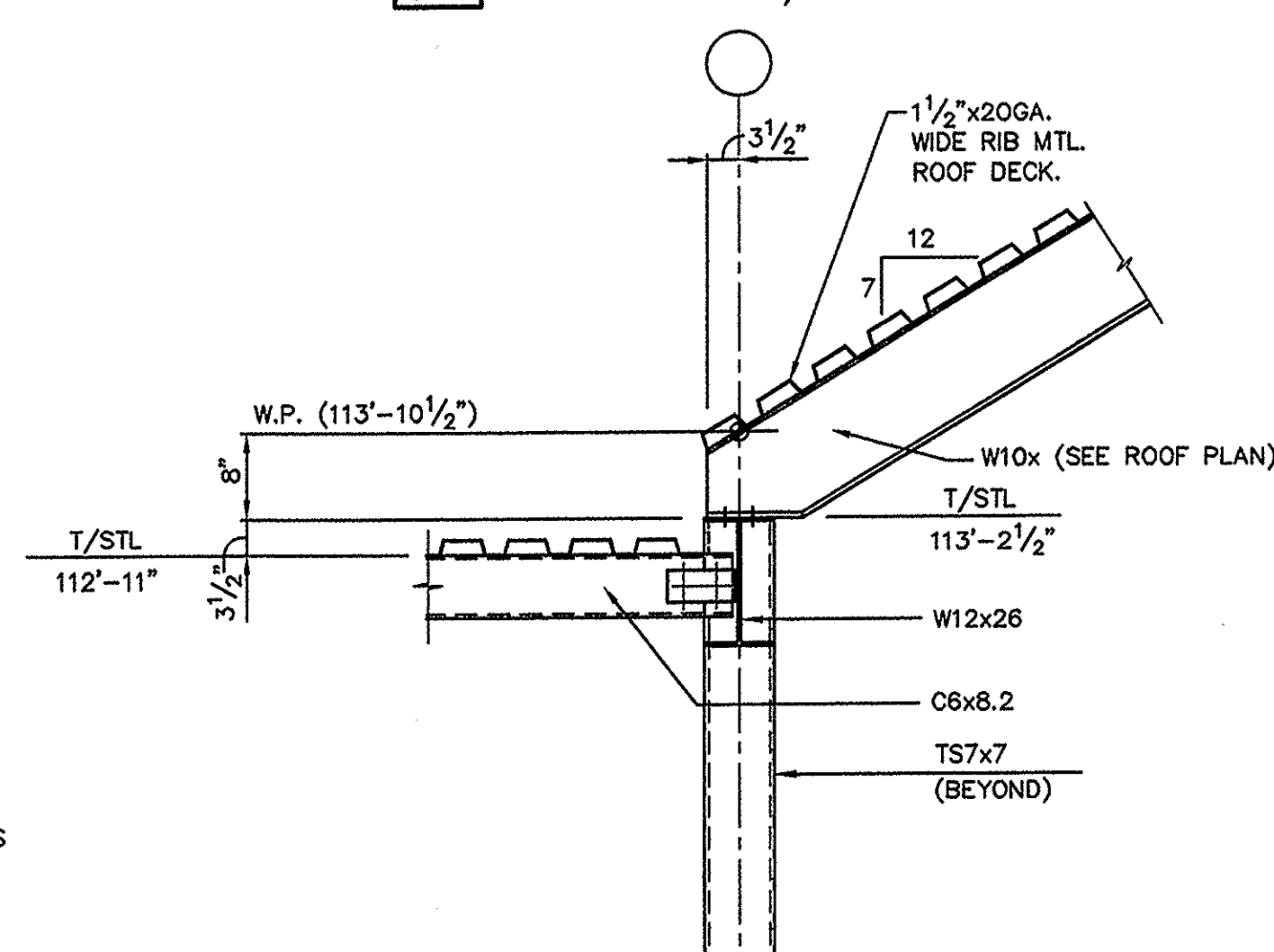
9 SECTION
S-6 3/4" = 1'-0"



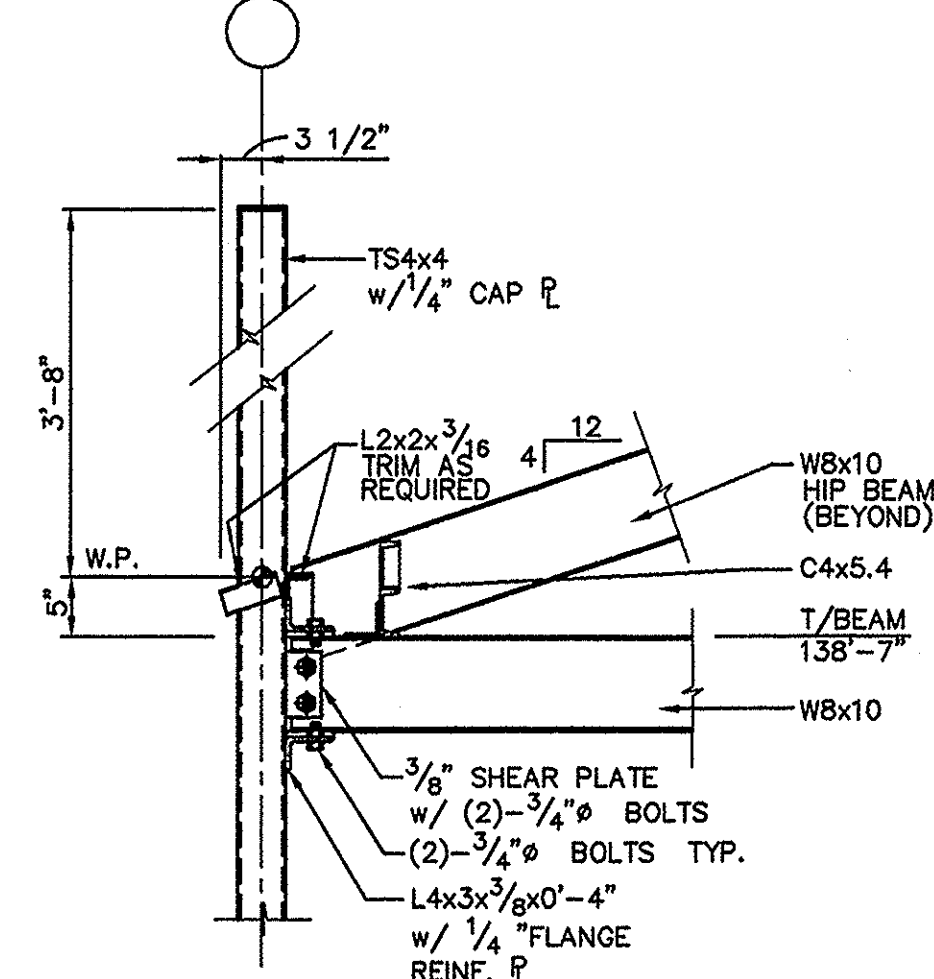
3 SECTION
S-6 3/4" = 1'-0"



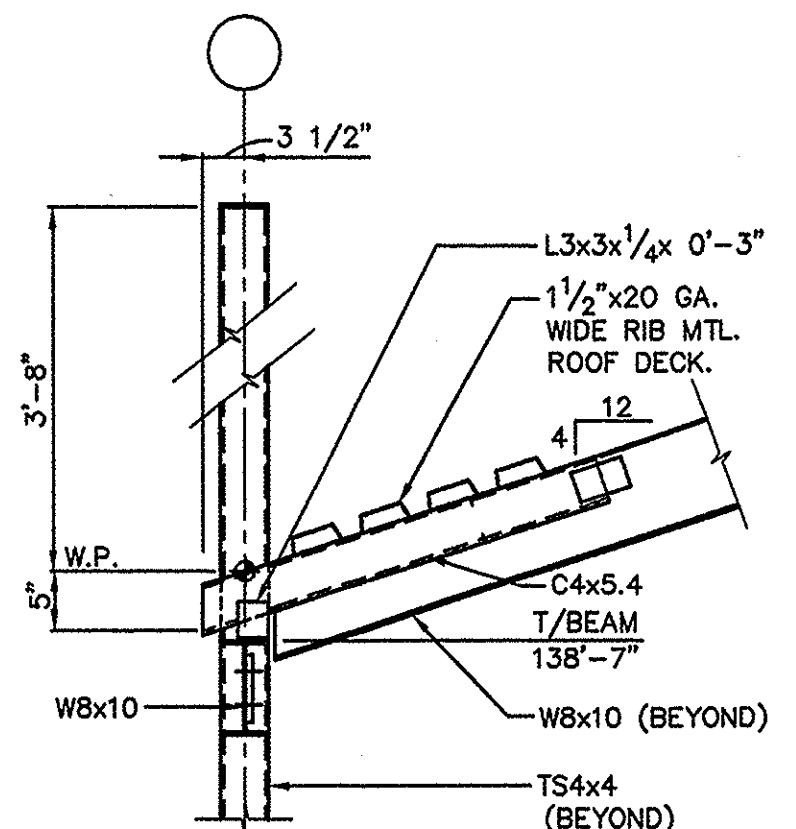
4 SECTION
S-6 3/4" = 1'-0"



5 SECTION
S-6 3/4" = 1'-0"



1 SECTION
S-6 3/4" = 1'-0"

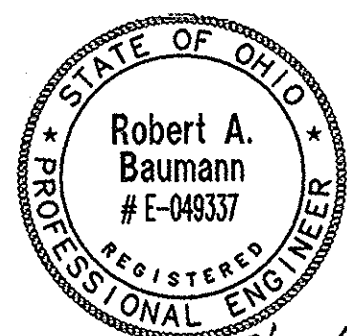


2 SECTION
S-6 3/4" = 1'-0"



CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL / ELECTRICAL / STRUCTURAL
SRA, INC. / LANTZ JONES NEBRASKA
SITE/CIVIL:
KZF DESIGN
LANDSCAPE ARCHITECTURE:
KINZELMAN KLINE

REVISIONS		
NO.	DATE	DESCRIPTION



FOR:
OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
STRUCTURAL STEEL DETAILS

PROJECT NO. 770-2003-074
I-70 / LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION

PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLOT DATE
AUGUST 23, 2004

DATE
AUGUST, 2004

S-6

BID/CONSTRUCTION SET

CODED NOTES

- FAN COIL UNITS, ECU-1.1.2, MOUNTED ON THE FLOOR.
- FAN COIL UNITS, ECU-1.1.4, MOUNTED ON THE FLOOR.
- FAN COIL UNITS, ECU-1.1.6, MOUNTED ON THE FLOOR.
- FAN COIL UNITS, ECU-1.1.8, MOUNTED ON THE FLOOR.
- ALL DOMESTIC WATER PIPING LOCATED ABOVE CEILING OUTSIDE THE MECHANICAL PIPE CHASES SHALL BE INSULATED WITH DOUBLE THE SPECIFIED THICKNESS OF PIPE INSULATION. INSULATE THE ENTIRE LENGTH OF PIPING.
- 1/2" DCU ON W/VALVE FOR COFFEE MACHINE. PROVIDE ROUGH-IN BACKFLOW PREVENTER 1 FINAL HOOK-UP. COORDINATE WITH VENDING MACHINE SUPPLIER FOR WATER HOOK-UP AND FLOOR DRAIN.
- 3" OVERFLOW DRAIN PIPE TO SOFFIT 1 TERMINATE WITH PERFORATED COVER PLATE (JR. SHIT 5005). COORDINATE EXACT LOCATIONS WITH SOFFIT LIGHTING.
- REFER TO THE SITE UTILITY DRAWING C4.04 FOR THE CONTINUATION OF THE MAIN DOMESTIC WATER SERVICE FROM 5'-0" OUTSIDE OF BLDG.
- NORTH SIDE 4" WATER METER WITH BACKFLOW PREVENTER FOR OWNER'S USE. COORDINATE ENTRANCE IN CHASE AREA WITH SITE UTILITY DRAWINGS. REFER TO DETAILS 'K' 1' 3" ON SHEET NP-2.
- SINK: PROVIDE 1/2" DHU 1 DCU 1 1/2" SAN 1 1/2" VENT LINE. FURNISH 1 INSTALL 1/2HP 120V 10" DISPOSER FOR SINKS.
- LAV: PROVIDE 1/2" DHU 1 DCU 1 1/2" SAN 1 1/2" VENT LINE (TYP)
- EWC: PROVIDE 1/2" DCU 1 1/2" SAN 1 1/2" VENT LINE (TYP)
- UR: PROVIDE 1" DCU 2" SAN 1 1/2" VENT LINE (TYP)

CODED NOTES (CONT)

14. PROVIDE 1" DCU 4" SAN 1 2" VENT LINE (TYP.)
15. SS. PROVIDE 1/2" DHU 1 DCU 3" SAN 1 1/2" VENT. (TYP.)
16. PROVIDE 1" DCU 4" SAN 1 2" VENT LINE (TYP.)
17. REFER TO THE SITE UTILITY DRAWING C4.08 FOR THE CONTINUATION OF THE STORM SEWER FROM 5'-0" OUTSIDE OF THE BUILDING.
18. PROVIDE 1-1/2" DCU LINE DOWN IN WALL TO WATER CLOSET. 4" SAN 1 2" VENT. PROVIDE ACCESS DOORS FOR ALL SERVICE VALVES.
19. REFER TO THE SITE UTILITY DRAWINGS C4.01 1 C4.03 FOR THE CONTINUATION OF THE SANITARY SEWER FROM 5'-0" OUTSIDE OF THE BUILDING.
20. FURNISH AND INSTALL 2" THICK FIBER GLASS PIPE INSULATION WITH AP-T JACKET ON PIPING FROM ROOF DRAINS IN ATTIC SPACE. PIPING IS HEAT TRACED BY THE ELECTRICAL CONTRACTOR. PLUMBING CONTRACTOR TO FURNISH AND INSTALL ALL OTHER MATERIALS FOR PIPING, ALONG WITH HEAT TRACE LABELING ON PIPE.
21. FURNISH AND INSTALL A 1-1/2" DCU LINE WITH ISOLATION VALVES AND ASSE STD. 105 DOUBLE CHECK BACKFLOW PREVENTER FOR SITE IRRIGATION AND TO SUPPLY GROUND HYDRANTS. EXTEND 2" WATER LINE TO 5'-0" OUTSIDE OF BUILDING WALL FOR CONTINUATION BY SITE UTILITY CONTRACTOR. BACKFLOW PREVENTER SHALL BE EQUAL TO WATTS SERIES 00TH20T.
22. INSTALL ALL PIPING A MINIMUM OF 3'-0" FROM FACE OF OUTSIDE WALL TO AVOID RUNNING DIRECTLY ABOVE ELECTRICAL PANELS.
23. REFER TO THE SITE UTILITY DRAWING C4.04 FOR THE CONTINUATION OF THE SITE IRRIGATION WATER SERVICE FROM 5'-0" OUTSIDE OF BLDG.

GENERAL NOTES:

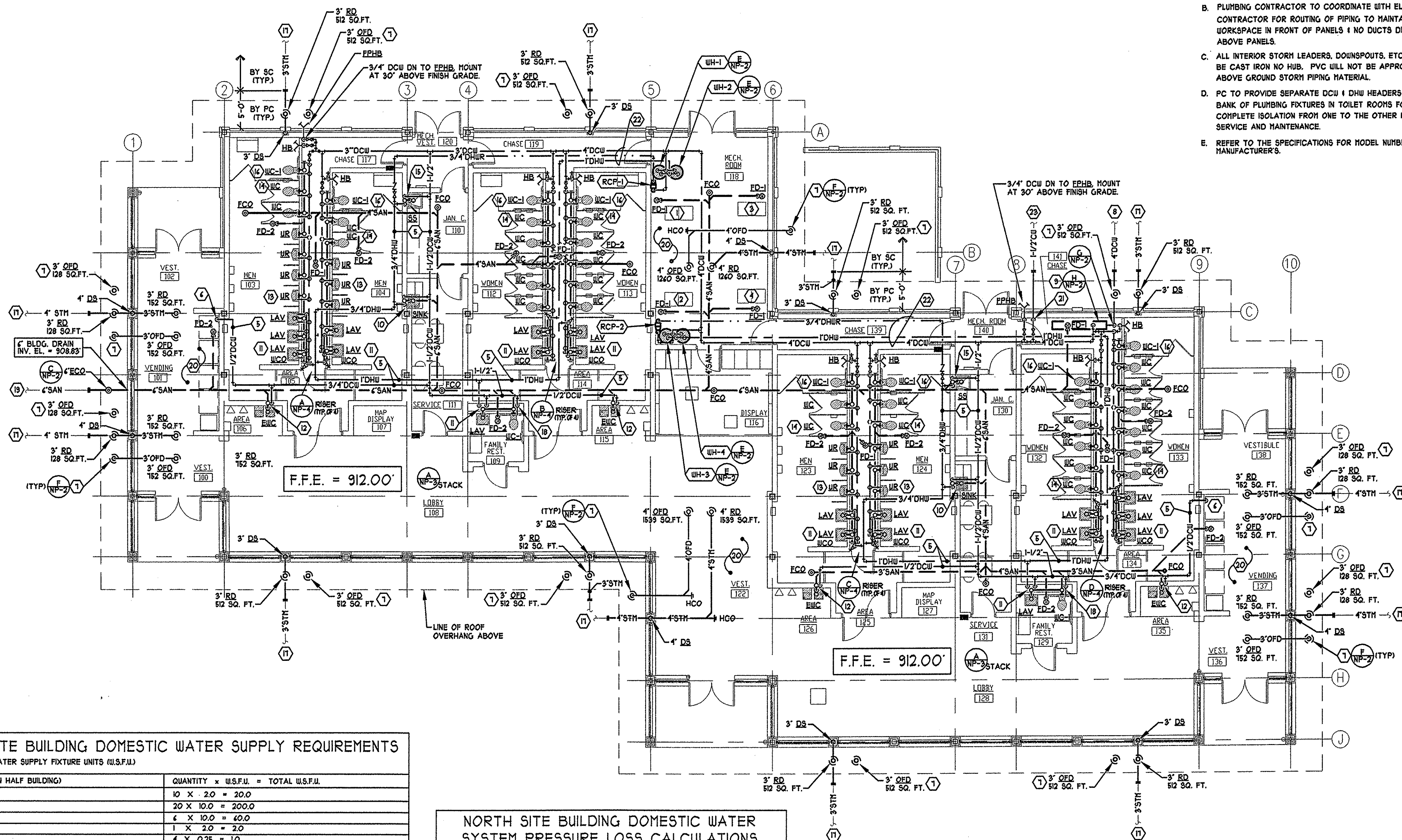
- STORM DRAINS TO BE EXTENDED 5'-0" OUTSIDE OF BUILDING BY THE CIVIL/SITE UTILITY CONTRACTOR TO THE MAIN STORM SYSTEM ON AN INDIVIDUAL SITE BASIS.
- WATER PROVIDED BY THE SITE UTILITY CONTRACTOR. REFER TO SITE UTILITY DRAWING C4.04 FOR WATER MAIN CONTINUATION. REFER TO DETAILS 'J' 1' 1" FOR WATER SERVICE ENTRANCE INTO BLDG AND METER.
- ELECTRICAL CONTRACTOR TO FURNISH 1 INSTALL ICE MELT SYSTEM IN DOWNSPOUTS 1 GUTTERS (SEE ELECTRICAL DRAWINGS).
- ELECTRICAL CONTRACTOR TO FURNISH 1 INSTALL HEAT TRACING ON ROOF DRAIN PIPING. REFER TO ELECTRICAL DRAWINGS.
- PLUMBING CONTRACTOR TO REMOVE ALL UNUSED WATER VALVES LOCATED AROUND THE PERIMETER OF EXISTING BLDG. COORDINATE ALL WORK WITH THE SITE UTILITY CONTRACTOR BEFORE STARTING.

PLUMBING GENERAL NOTES:

- ALL SHUT-OFF VALVES SHALL BE BALL VALVES. NO GATE VALVES WILL BE PERMITTED.
- PLUMBING CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR ROUTING OF PIPING TO MAINTAIN 3" WORKSPACE IN FRONT OF PANELS 1 NO DUCTS DIRECTLY ABOVE PANELS.
- ALL INTERIOR STORM LEADERS, DOWNSPOUTS, ETC., SHALL BE CAST IRON NO HUB. PVC WILL NOT BE APPROVED FOR ABOVE GROUND STORM PIPING MATERIAL.
- PC TO PROVIDE SEPARATE DCU 1 DHU HEADERS FOR EACH BANK OF PLUMBING FIXTURES IN TOILET ROOMS FOR COMPLETE ISOLATION FROM ONE TO THE OTHER FOR SERVICE AND MAINTENANCE.
- REFER TO THE SPECIFICATIONS FOR MODEL NUMBERS AND MANUFACTURERS.

PLUMBING LEGEND

SYMBOL	DESCRIPTION
DCU	DOMESTIC COLD WATER
DHU	DOMESTIC HOT WATER
DHUR	DOMESTIC HOT WATER RETURN
SAN	SANITARY DRAIN (BELOW GRADE)
SAN	SANITARY DRAIN (ABOVE FLOOR)
V	SANITARY VENT PIPING
STH	STORM DRAIN (BELOW GRADE)
STH	STORM DRAIN (ABOVE FLOOR)
OFD	STORM OVERFLOW DRAIN (ABOVE GRADE)
ECO	EXTERIOR CLEANOUT
FD	FLOOR DRAIN W/TRAP PRIMER
FCO	FLOOR CLEANOUT
HCO	HORIZONTAL CLEANOUT
WCL	WALL CLEANOUT
CAP	CAP ON END OF PIPE
SHV	SHUT-OFF VALVE
CV	CHECK VALVE
SHVR	SHUT-OFF VALVE IN RISER
RD	RISER DOWN (ELBOW)
RU	RISER UP (ELBOW)
BT	BRANCH-TOP CONNECTION
BB	BRANCH-BOTTOM CONNECTION
TEE	TEE
ELB	ELBOW
FPHB	FROSTPROOF HOSE BIBB
TP	TRAP PRIMER
WC-1	WATER CLOSET, ADA
WC	WATER CLOSET
UR	URNAL
LAV	LAVATORY
SS	SERVICE SINK
EWC	ELECTRIC WATER COOLER
PC	PLUMBING CONTRACTOR
SC	CIVIL SITE CONTRACTOR
HB	HOSE BIBB (INTERIOR)
SL	SLOPE LINE
STH	STORM LINE
DS	DOWN SPOUT
OFD	OVERFLOW DRAIN
RD	ROOF DRAIN
EC	ELECTRICAL CONTRACTOR
GC	GENERAL CONTRACTOR



NORTH SITE BUILDING DOMESTIC WATER SUPPLY REQUIREMENTS		
LOAD VALUES IN WATER SUPPLY FIXTURE UNITS (U.S.F.U.)		
FIXTURE (BASED ON HALF BUILDING)	QUANTITY	U.S.F.U. = TOTAL U.S.F.U.
LAVATORY	10 X 2.0	= 20.0
WATER CLOSET	20 X 10.0	= 200.0
URNAL	4 X 10.0	= 40.0
KITCHEN SINK	1 X 2.0	= 2.0
EWC	4 X 0.25	= 1.0
HOP SINK	1 X 3.0	= 3.0
HALF BLDG U.S.F.U. LOAD		286.0 U.S.F.U. = 110 GPM
HALF BLDG CONTINUOUS DEMAND (GPM)		15 GPM (3 HOSE BIBBS X 5 GPM EACH)
HALF BLDG WATER SUPPLY DEMAND (GPM)		10 + 15 = 25 GPM, 3" DCU PIPE
TOTAL BLDG U.S.F.U. LOAD		286.0 U.S.F.U. + 286.0 U.S.F.U. = 572.0 U.S.F.U. = 155 GPM
TOTAL BLDG CONTINUOUS DEMAND (GPM)		15 GPM (3 HOSE BIBBS X 5 GPM EACH)
TOTAL BLDG WATER SUPPLY DEMAND (GPM)		155 + 15 = 170 GPM, 3" DCU PIPE

NORTH SITE BUILDING DOMESTIC WATER SYSTEM PRESSURE LOSS CALCULATIONS

A. MINIMUM PRESSURE AVAILABLE AT MAIN (INCLUDES TAP LOSS):	= 48 PSI
B. HIGHEST PRESSURE REQUIRED AT GOVERNING FIXTURE (WC):	= 25.00 PSI
C. STRAINER LOSS (4" STRAINER):	= 0.28 PSI
D. METER LOSS (4" METER):	= 1.00 PSI
E. BACKFLOW PREVENTER LOSS (4" RFPV):	= 9.00 PSI
F. VERTICAL STATIC HEAD LOSS (4" X 0.433):	= 0.81 PSI
G. TOTAL OVERALL LOSSES 1 REQUIREMENTS (SUM OF LINES B - F):	= 36.15 PSI
H. PRESSURE AVAILABLE TO OVERCOME PIPE FRICTION LINE A MINUS LINE G:	= 11.85 PSI
I. TOTAL PIPE FRICTION LOSS	= 8.68 PSI

- 4" BUILDING DCU LINE: BASED ON 170 GPM TOTAL BLDG WATER SUPPLY DEMAND.
 - INCLUDES: 15 GPM FOR CONTINUOUS LOAD OF THREE HOSE BIBBS.
 - BASED ON TYPE L, ASTM B88 COPPER TUBING ONLY.

PLUMBING PLAN - NORTH SITE SCALE: 1/8" = 1'-0"

1/8" = 1'-0"

CONSULTING ARCHITECTS & ENGINEERS

ARCHITECT: OFFICE OF THE STATE ARCHITECT
MECHANICAL/ELECTRICAL/STRUCTURAL
S.R.A. INC.

SITE/CIVIL: KZFE DESIGN, INC.
LANDSCAPE ARCHITECTURE: KINZELMAN KLINE

REVISIONS		
NO.	DATE	DESCRIPTION

FOR: OHIO DEPT. OF TRANSPORTATION

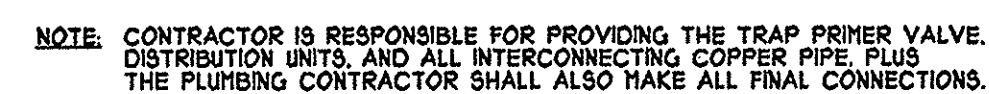
DRAWING DESCRIPTION: PLUMBING PLAN - NORTH SITE (WEST BOUND)

PROJECT NO. 770-2003-074
1/70 LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION

PREPARED BY: GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLOT DATE	DATE	
AUGUST 2004	AUGUST 2004	NP-1



D TRAP PRIMER DEVICE AND PIPING DETAIL
N.T.S.



PLUMBING SCHEDULES

REFER TO THE SPECIFICATIONS FOR MANUFACTURER'S AND MODEL NUMBER'S AND ALL ACCESSORIES.



ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL/ELECTRICAL/STRUCTURAL
S.R.A. INC.

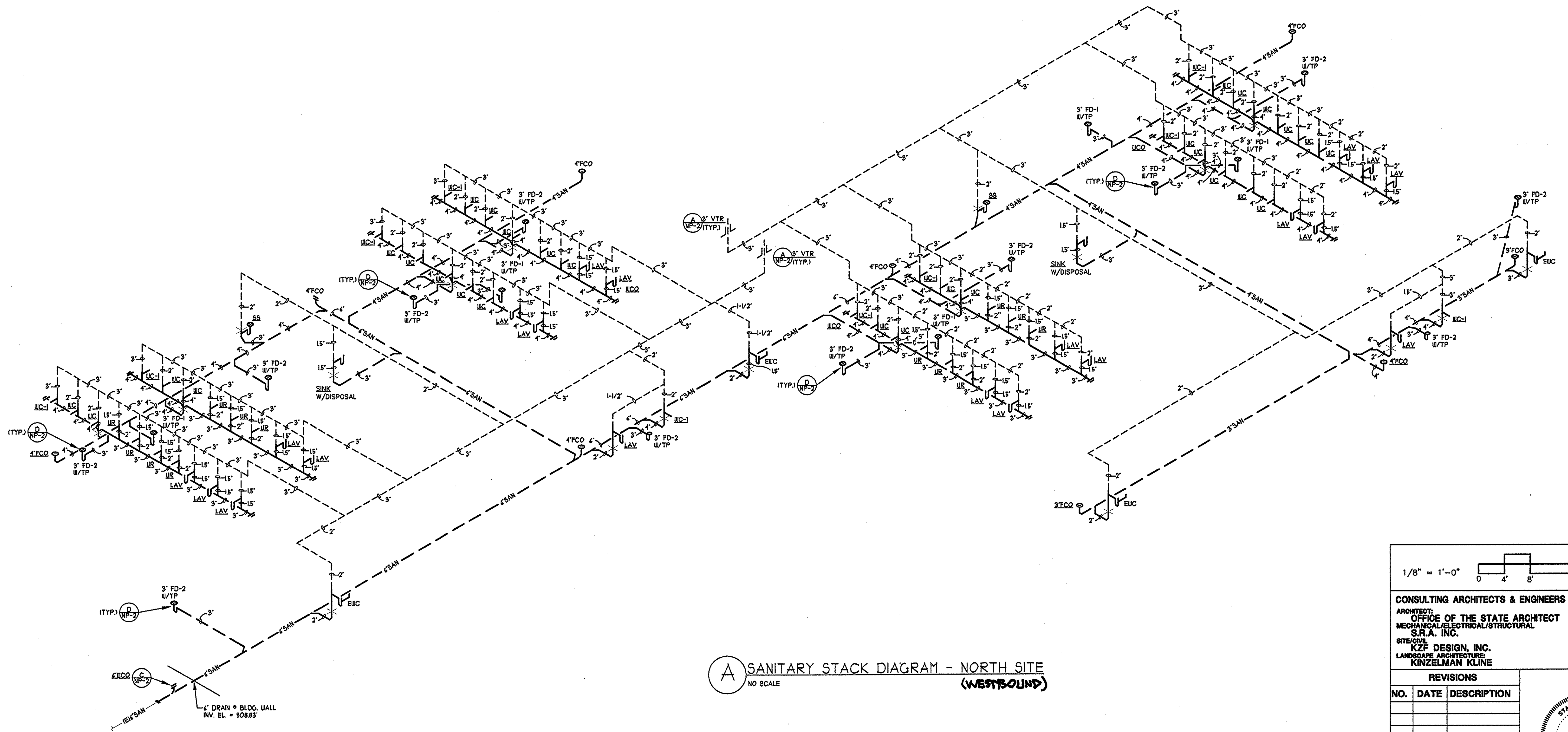
SITE/CIVIL
KZF DESIGN, INC.
LANDSCAPE ARCHITECTURE:
KINZELMAN KLINE

DRAWING DESCRIPTION:
PLUMBING DETAILS - NORTH SITE (WESTBOUND)

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION

PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

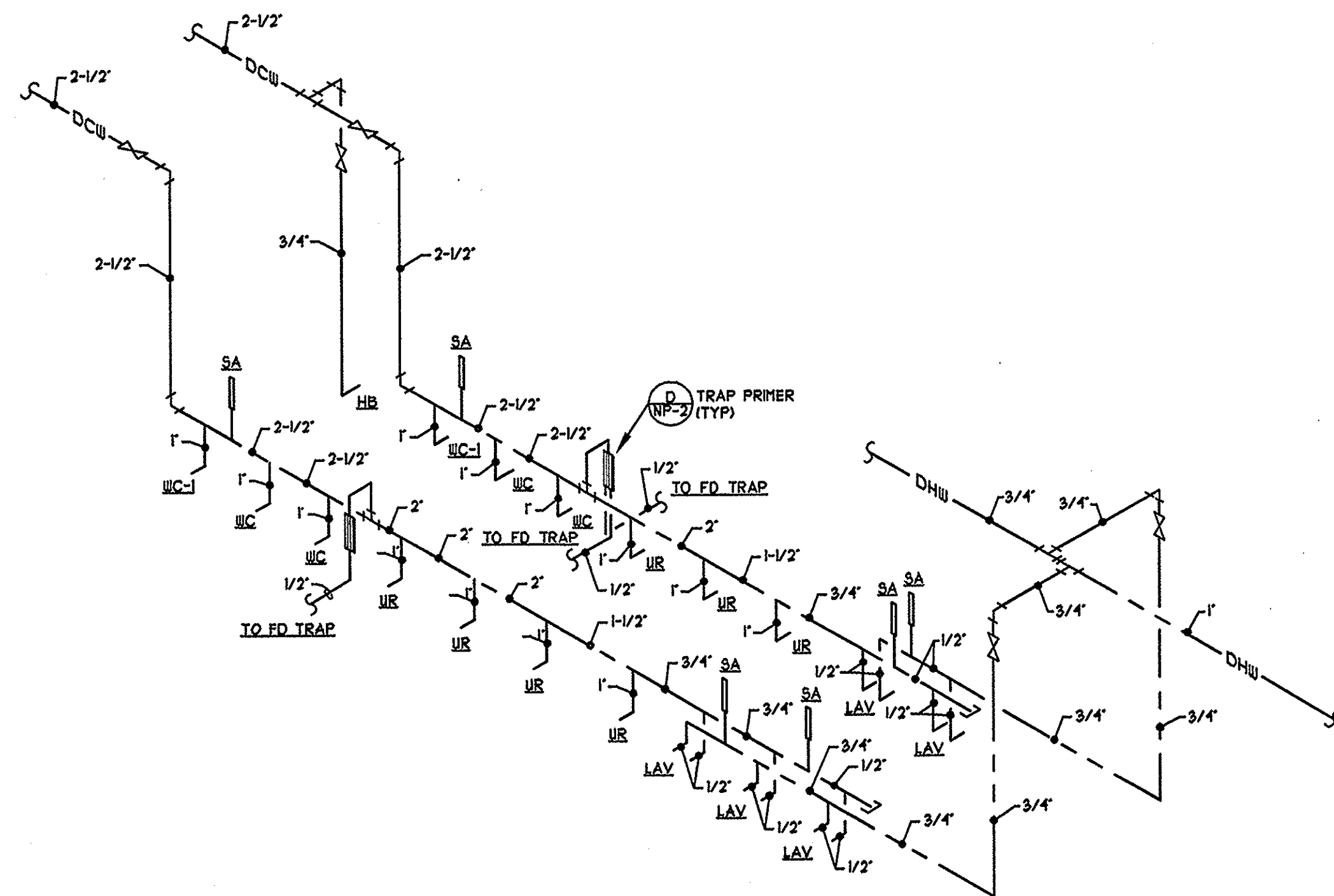
PLOT DATE AUGUST 2004	DATE AUGUST 2004	NP-2
---------------------------------	----------------------------	-------------



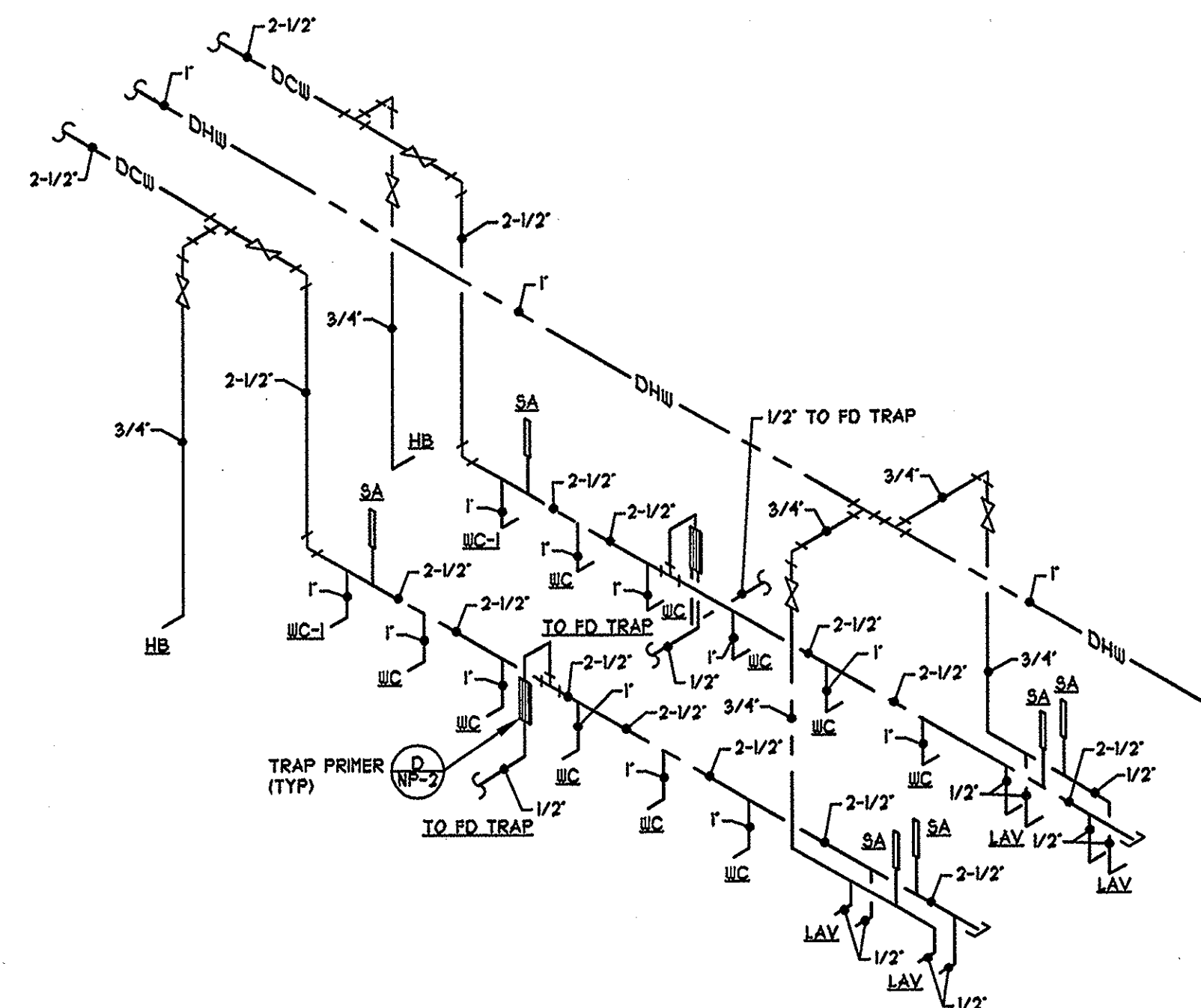
A SANITARY STACK DIAGRAM - NORTH SITE
(WESTBOUND)
NO SCALE

1/8" = 1'-0" 0 4' 8' 16' 24'		
CONSULTING ARCHITECTS & ENGINEERS ARCHITECT: OFFICE OF THE STATE ARCHITECT MECHANICAL/ELECTRICAL/STRUCTURAL S.R.A. INC. SITE/CIVIL: KZF DESIGN, INC. LANDSCAPE ARCHITECTURE: KINZELMAN KLINE		
REVISIONS		
NO.	DATE	DESCRIPTION
FOR: OHIO DEPT. OF TRANSPORTATION		
DRAWING DESCRIPTION: (WESTBOUND) SANITARY STACK DIAGRAM - NORTH SITE		
PROJECT NO. 770-2003-074 I/70 LICKING COUNTY REST AREA		
STATE OF OHIO DEPARTMENT OF ADMINISTRATIVE SERVICES GENERAL SERVICES DIVISION PREPARED BY: GENERAL SERVICES DIVISION OFFICE OF THE STATE ARCHITECT		
PLOT DATE AUGUST 2004	DATE AUGUST 2004	NP-3

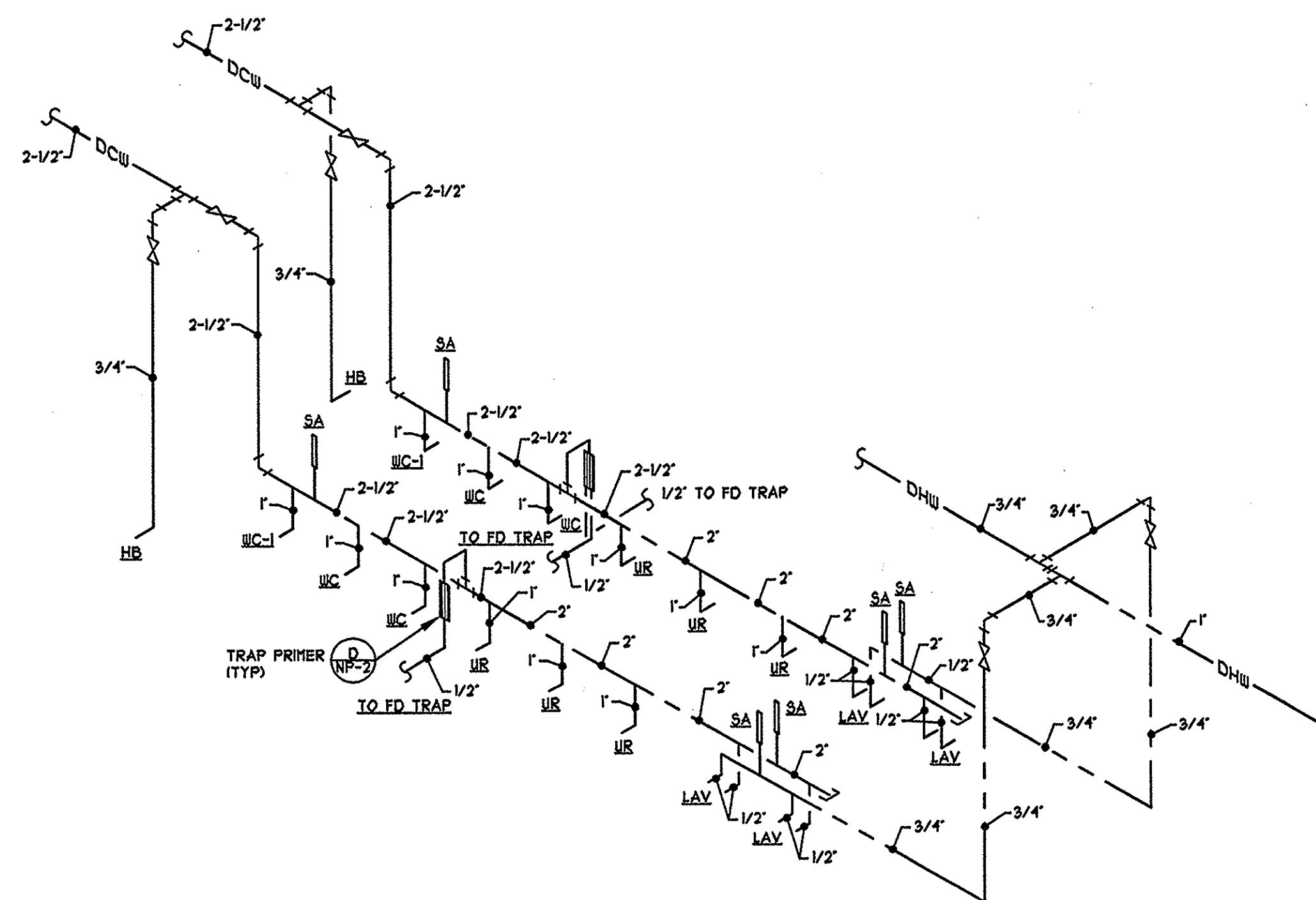
BID/CONSTRUCTION SET



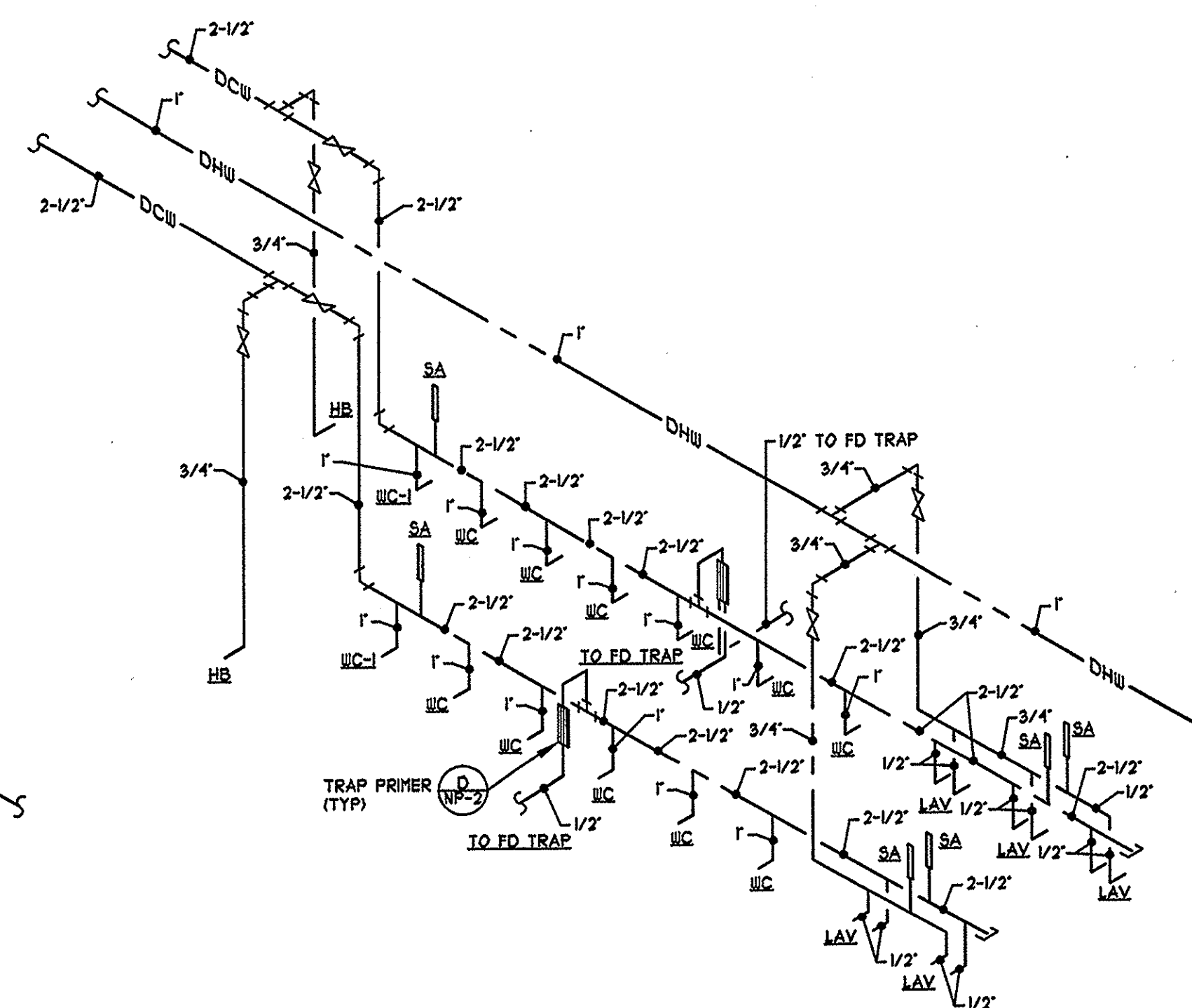
A MEN'S TOILET ROOM WATER RISER DIAGRAM
NO SCALE



B WOMEN'S TOILET ROOM WATER RISER DIAGRAM
NO SCALE



C MEN'S TOILET ROOM WATER RISER DIAGRAM
NO SCALE



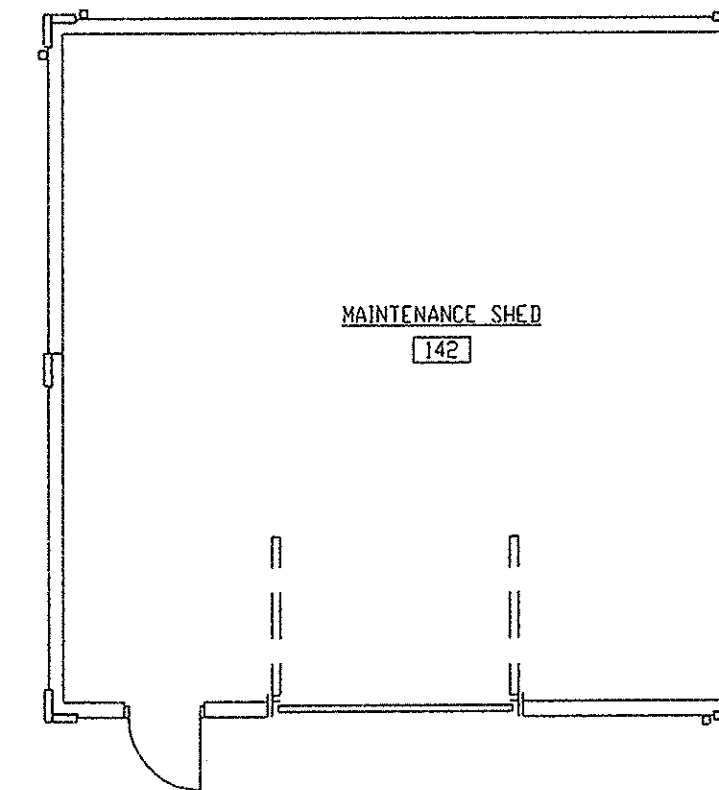
D WOMEN'S TOILET ROOM WATER RISER DIAGRAM
NO SCALE

1/8" = 1'-0"		
0 4' 8' 16' 24'		
CONSULTING ARCHITECTS & ENGINEERS		
ARCHITECT: OFFICE OF THE STATE ARCHITECT MECHANICAL/ELECTRICAL/STRUCTURAL S.P.A. INC.		
SITE/CIVIL KZF DESIGN, INC. LANDSCAPE ARCHITECTURE KINZELMAN KLINE		
REVISIONS		
NO.	DATE	DESCRIPTION
FOR: OHIO DEPT. OF TRANSPORTATION		
DRAWING DESCRIPTION: DOMESTIC WATER RISER DIAGRAM - NORTH SITE		
PROJECT NO. 770-2003-074 1/70 LICKING COUNTY REST AREA		
STATE OF OHIO DEPARTMENT OF ADMINISTRATIVE SERVICES GENERAL SERVICES DIVISION PREPARED BY GENERAL SERVICES DIVISION OFFICE OF THE STATE ARCHITECT		
PLOT DATE AUGUST 2004	DATE AUGUST 2004	NP-4

BID/CONSTRUCTION SET

CODED NOTES (CONT)

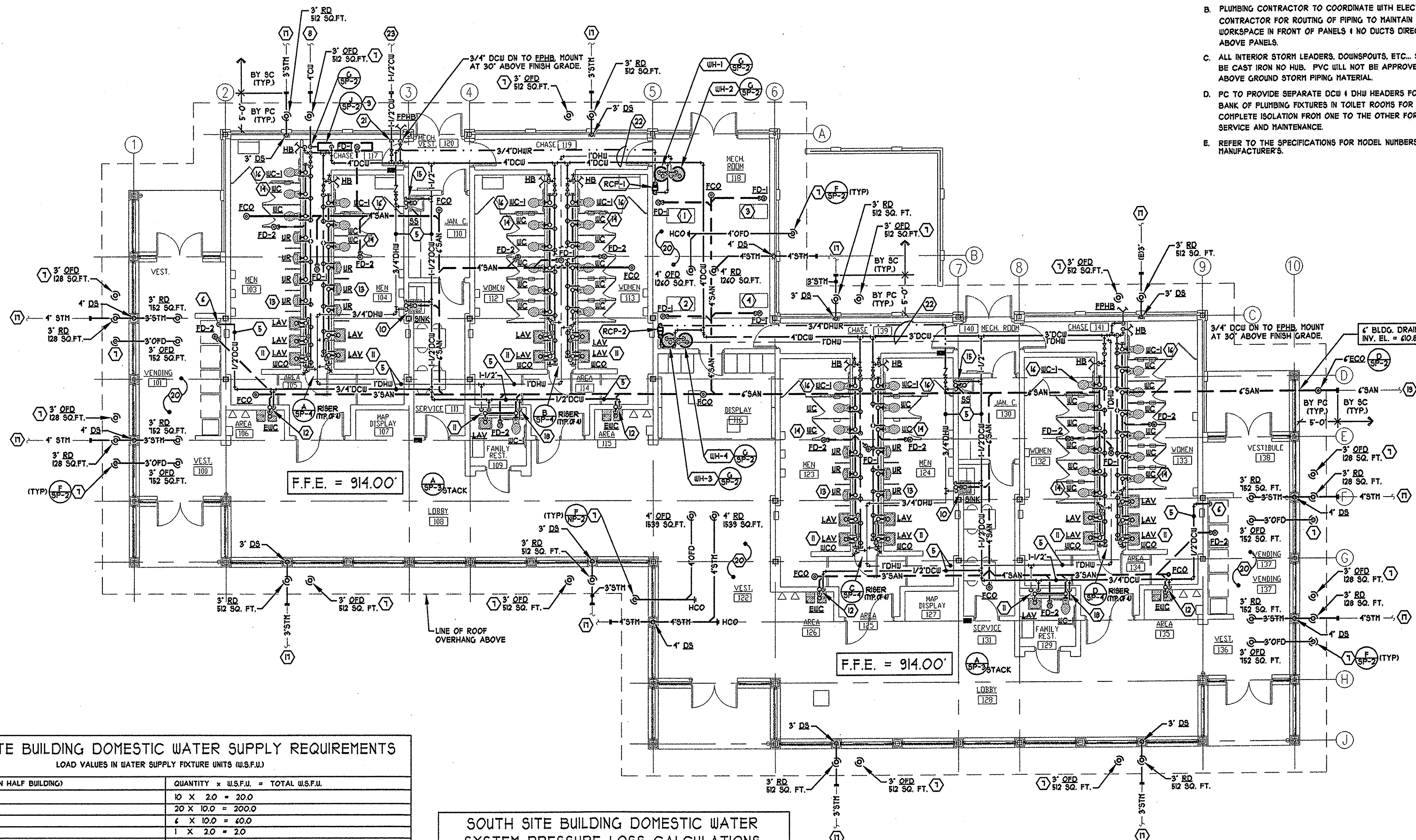
- 14 UC: PROVIDE 1" DCU, 4" SAN, 1 1/2" VENT LINE (TYP)
- 15 SS: PROVIDE 1/2" DCU, 4" DCU, 3" SAN, 1 1/2" VENT. (TYP)
- 16 UC: PROVIDE 1" DCU, 4" SAN, 1 1/2" VENT LINE (TYP)
- 17 REFER TO THE SITE UTILITY DRAWING C403 FOR THE CONTINUATION OF THE STORM SEWER FROM 5'-0" OUTSIDE OF THE BUILDING.
- 18 UC: PROVIDE 1-1/2" DCU LINE DOWN IN WALL TO WATER CLOSET, 4" SAN 1 1/2" VENT. PROVIDE ACCESS DOORS FOR EACH FLOOR.
- 19 REFER TO THE SITE UTILITY DRAWINGS C402 & C403 FOR THE CONTINUATION OF THE SANITARY SEWER FROM 5'-0" OUTSIDE OF THE BUILDING.
- 20 FURNISH AND INSTALL 2" THICK FIBERGLASS PIPE INSULATION WITH AP-T JACKET ON PIPING FROM ROOF DRAINS IN ATTIC SPACE. PIPING IS HEAT TRACED BY THE ELECTRICAL CONTRACTOR. PLUMBING CONTRACTOR TO FURNISH AND INSTALL APPROVED MATERIALS FOR HEAT TRACING ON PIPING.
- 21 FURNISH AND INSTALL 1-1/2" DCU LINE WITH ISOLATION VALVES AND ASSE STD. 105 JOINTS CHECK BACKFLOW PREVENTER FOR SITE IRRIGATION AND TO SUPPLY GROUND HYDRANTS. EXTEND 2" WATER LINE TO 5'-0" OUTSIDE OF BUILDING WALL FOR CONTINUATION BY SITE UTILITY CONTRACTOR. BACKFLOW PREVENTER SHALL BE SUPPLIED BY WATER SERVICE.
- 22 INSTALL ALL PIPING A MINIMUM OF 3'-0" FROM FACE OF OUTSIDE WALL TO AVOID RUNNING DIRECTLY ABOVE ELECTRICAL PANELS.
- 23 REFER TO THE SITE UTILITY DRAWINGS C405 & C406 FOR THE CONTINUATION OF THE SITE IRRIGATION WATER SERVICE FROM 5'-0" OUTSIDE OF BLDG.



1. STORM DRAINS TO BE EXTENDED 5'-0" OUTSIDE OF BUILDING BY THE CIVIL/SITE UTILITY CONTRACTOR TO THE MAIN STORM SYSTEM ON AN INDIVIDUAL SITE BASIS.
2. WATER PROVIDED TO THE SITE UTILITY CONTRACTOR. REFER TO SITE UTILITY DRAWINGS C405 & C406 FOR WATER MAIN CONTINUATION. REFER TO DETAILS "J" & "K" FOR WATER SERVICE ENTRANCE INTO BLDG. AND METER.
3. ELECTRICAL CONTRACTOR TO FURNISH & INSTALL ICE MELT SYSTEM IN DOWNSPOUTS & GUTTERS (SEE ELECTRICAL DRAWINGS).
4. ELECTRICAL CONTRACTOR TO FURNISH & INSTALL HEAT TRACING ON ROOF DRAIN PIPING. REFER TO ELECTRICAL DRAWINGS.
5. PLUMBING CONTRACTOR TO REMOVE ALL UNUSED WATER VALVES LOCATED AROUND THE PERIMETER OF EXISTING BLDG. COORDINATE ALL WORK WITH THE SITE UTILITY CONTRACTOR BEFORE STARTING.

- A. ALL SHUT-OFF VALVES SHALL BE BALL VALVES. NO GATE VALVES WILL BE PERMITTED).
- B. PLUMBING CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR ROUTING OF PIPING TO MAINTAIN 36" WORKSPACE IN FRONT OF PANELS 10 DUCTS DIRECTLY ABOVE PANELS.
- C. ALL INTERIOR STORM LEADERS, DOWNSPOUTS, ETC... SHALL BE CAST IRON NO HUB. PVC WILL NOT BE APPROVED FOR ABOVE GROUND STORM PIPING MATERIAL.
- D. PC TO PROVIDE SEPARATE DCU 1 DHH HEADERS FOR EACH BANK OF PLUMBING FIXTURES IN TOILET ROOMS FOR COMPLETE ISOLATION FROM ONE TO THE OTHER FOR SERVICE AND MAINTENANCE.
- E. REFER TO THE SPECIFICATIONS FOR MODEL NUMBERS AND MANUFACTURER'S.

SYMBOL	DESCRIPTION
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RETURN
	SANITARY DRAIN (BELOW GRADE)
	SANITARY DRAIN (ABOVE FLOOR)
	SANITARY VENT PIPING
	STORM DRAIN (BELOW GRADE)
	STORM DRAIN (ABOVE FLOOR)
	STORM OVERFLOW DRAIN (ABOVE GRADE)
	EXTERIOR CLEANOUT
	FLOOR DRAIN W/TRAP PRIMER
	FLOOR CLEANOUT
	HORIZONTAL CLEANOUT
	WALL CLEANOUT
	CAP ON END OF PIPE
	SHUT-OFF VALVE
	CHECK VALVE
	SHUT-OFF VALVE IN RISER
	RISER DOWN (ELBOW)
	RISER UP (ELBOW)
	BRANCH-TOP CONNECTION
	BRANCH-BOTTOM CONNECTION
	TEE
	ELBOW
	FROSTPROOF HOSE BIBB
TP	TRAP PRIMER
WC-1	WATER CLOSET, ADA
WC	WATER CLOSET
UR	URNAL
LAV	LAVATORY
SS	SERVICE SINK
EW/C	ELECTRIC WATER COOLER
PC	PLUMBING CONTRACTOR
SC	CIVIL SITE CONTRACTOR
HB	HOSE BIBB (INTERIOR)
SL	SLOPE LINE
STM	STORM LINE
DS	DOWN SPOUT
OFD	OVERFLOW DRAIN
RD	ROOF DRAIN
EC	ELECTRICAL CONTRACTOR
GC	GENERAL CONTRACTOR



SOUTH SITE BUILDING DOMESTIC WATER SUPPLY REQUIREMENTS	
LOAD VALUES IN WATER SUPPLY FIXTURE UNITS (U.S.F.U.)	
FIXTURE (BASED ON HALF BUILDING)	QUANTITY $\times$ U.S.F.U. = TOTAL U.S.F.U.
LAVATORY	10 $\times$ 2.0 = 20.0
WATER CLOSET	20 $\times$ 10.0 = 200.0
URINAL	6 $\times$ 10.0 = 60.0
KITCHEN SINK	1 $\times$ 2.0 = 2.0
EWC	4 $\times$ 0.25 = 1.0
MOP SINK	1 $\times$ 3.0 = 3.0
HALF BLDG U.S.F.U. LOAD	284.0 U.S.F.U. = 110 GPM
HALF BLDG CONTINUOUS DEMAND (GPM)	15 GPM (3 HOSE BIBBS $\times$ 5 GPM EACH)
HALF BLDG WATER SUPPLY DEMAND (GPM)	110 + 15 = 125 GPM, 3" DCW PIPE
TOTAL BLDG U.S.F.U. LOAD	284.0 U.S.F.U. + 284.0 U.S.F.U. = 572.0 U.S.F.U. = 155 GPM
TOTAL BLDG CONTINUOUS DEMAND (GPM)	15 GPM (3 HOSE BIBBS $\times$ 5 GPM EACH)
TOTAL BLDG WATER SUPPLY DEMAND (GPM)	155 + 15 = 170 GPM, 3" DCW PIPE

A.	MINIMUM PRESSURE AVAILABLE AT MAIN (INCLUDES TAP LOSS).	= 48 PSI
B.	HIGHEST PRESSURE REQUIRED AT GOVERNING FIXTURE (H ₂)	= 25.00 PSI
C.	STRAINER LOSS (1" STRAINER)	= 0.28 PSI
D.	METER LOSS (4" METER)	= 1.00 PSI
E.	BACKFLOW PREVENTER LOSS (1" RPV)	= 8.00 PSI
F.	VERTICAL STATIC HEAD LOSS (4' X 0.433)	= 4.34 PSI
G.	TOTAL OVERALL LOSSES (I REQUIREMENTS (SUM OF LINES B - F))	= 38.62 PSI
H.	DESIGN AVERAGE FRICTION LOSS PERWORK PIPE FRICTION (LINE A MINUS LINE H)	= 1.38 PSI
I.	TOTAL PIPE FRICTION LOSS	= 5.18 PSI

- 1" BUILDING CROWN LINE BASED ON 10 GPM TOTAL BLDG WATER SUPPLY DEMAND.
 - INCLUDES .5 GPM. FOR CONTINUOUS LOAO OF THREE HOSE BIBBS.
 - BASED ON TYPE L, ASTM B88 COPPER TUBING ONLY.

PLUMBING PLAN - SOUTH SITE
SCALE: 1/8" = 1'-0" (EASTBOUND)

$1/8" = 1'-0"$



CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL/ELECTRICAL/STRUCTURAL
S.R.A. INC.
SITE/CIVIL
KZF DESIGN, INC.
LANDSCAPE ARCHITECTURE:
KINZELMAN KLINE

REVISIONS

[illegible]

FOR:
OHIO DEPT. OF TRANSPORTATION

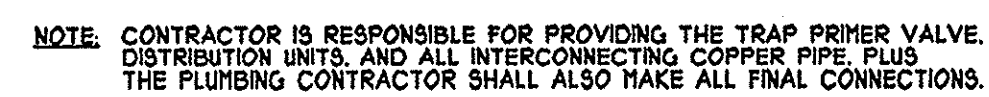
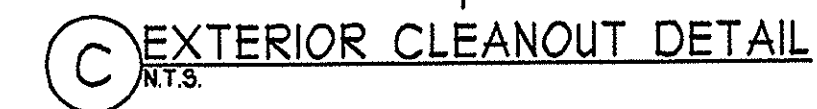
DRAWING DESCRIPTION:
PLUMBING PLAN - SOUTH SITE (EASTBOUND)

PROJECT NO. 770-2003-074
I/70 LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLOT DATE AUGUST 2004	DATE AUGUST 2004	SP-1
---------------------------------	----------------------------	-------------

ROAD STATION: MACY DRAWING: L:\DRAWINGS\SAO\REST AREAS\LICKING\SAO\4005-SP1.dwg DATE: JUL 20, 2004 TIME: 11:57 AM



(D) TRAP PRIMER DEVICE AND PIPING DETAIL
N.T.S.



PLUMBING SCHEDULES

REFER TO THE SPECIFICATIONS FOR MANUFACTURER'S AND MODEL NUMBER'S AND ALL ACCESSORIES.



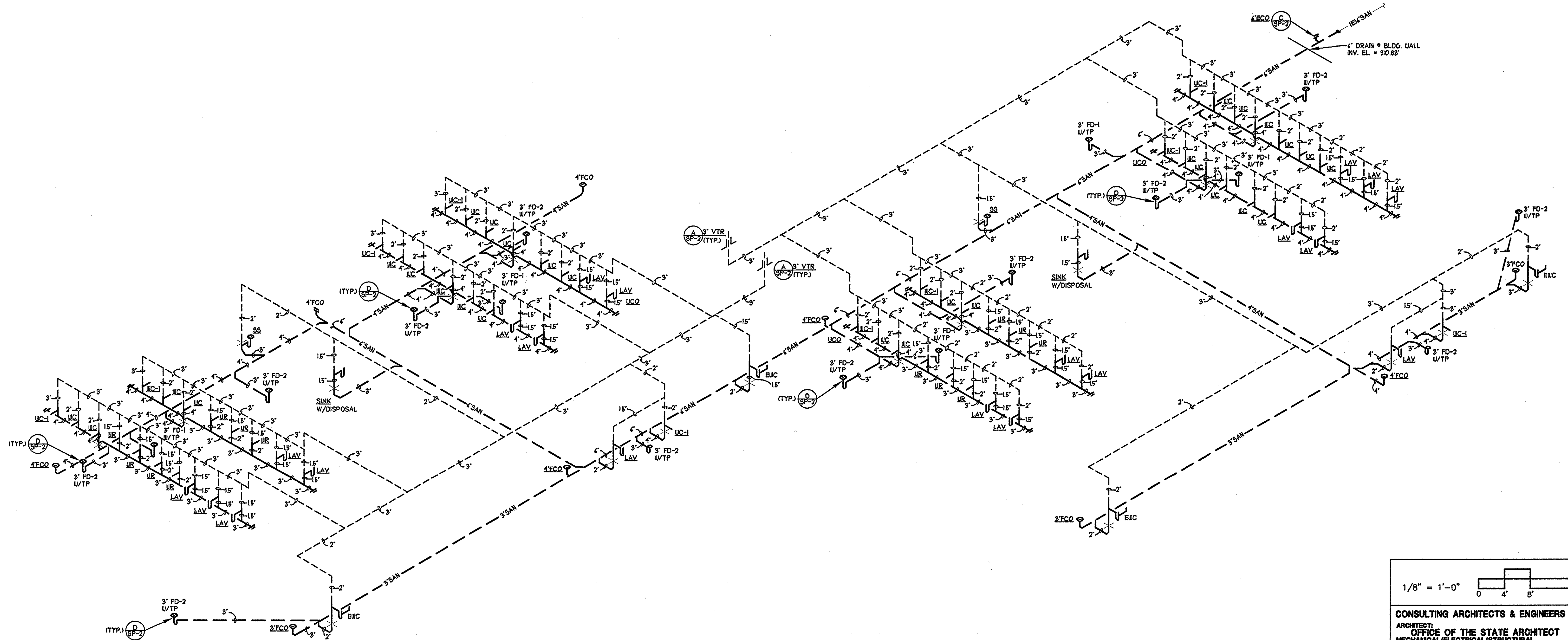
SITE/CIVIL
KZF DESIGN, INC.
LANDSCAPE ARCHITECTURE:
KINZELMAN KLINE

A circular professional engineer seal for the State of Ohio. The outer ring contains the text "STATE OF OHIO" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by small dots. The inner circle contains the name "JOHN E. SANDERS", the registration number "E-58219", and the word "REGISTERED" at the bottom.

PROJECT NO. 770-2003-074
I/70 LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLOT DATE AUGUST 2004	DATE AUGUST 2004	SP-2
--	-----------------------------------	-------------



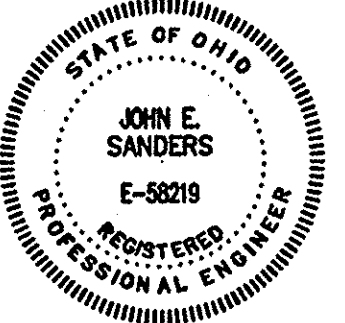
A SANITARY STACK DIAGRAM - SOUTH SITE
(EASTBOUND)
NO SCALE

1/8" = 1'-0" 0 4' 8' 16' 24'

CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT: OFFICE OF THE STATE ARCHITECT
MECHANICAL/ELECTRICAL/STRUCTURAL
S.R.A. INC.
SITE/CIVIL: KZF DESIGN, INC.
LANDSCAPE ARCHITECTURE: KINZELMAN KLINE

REVISIONS

NO.	DATE	DESCRIPTION



FOR:
OHIO DEPT. OF TRANSPORTATION

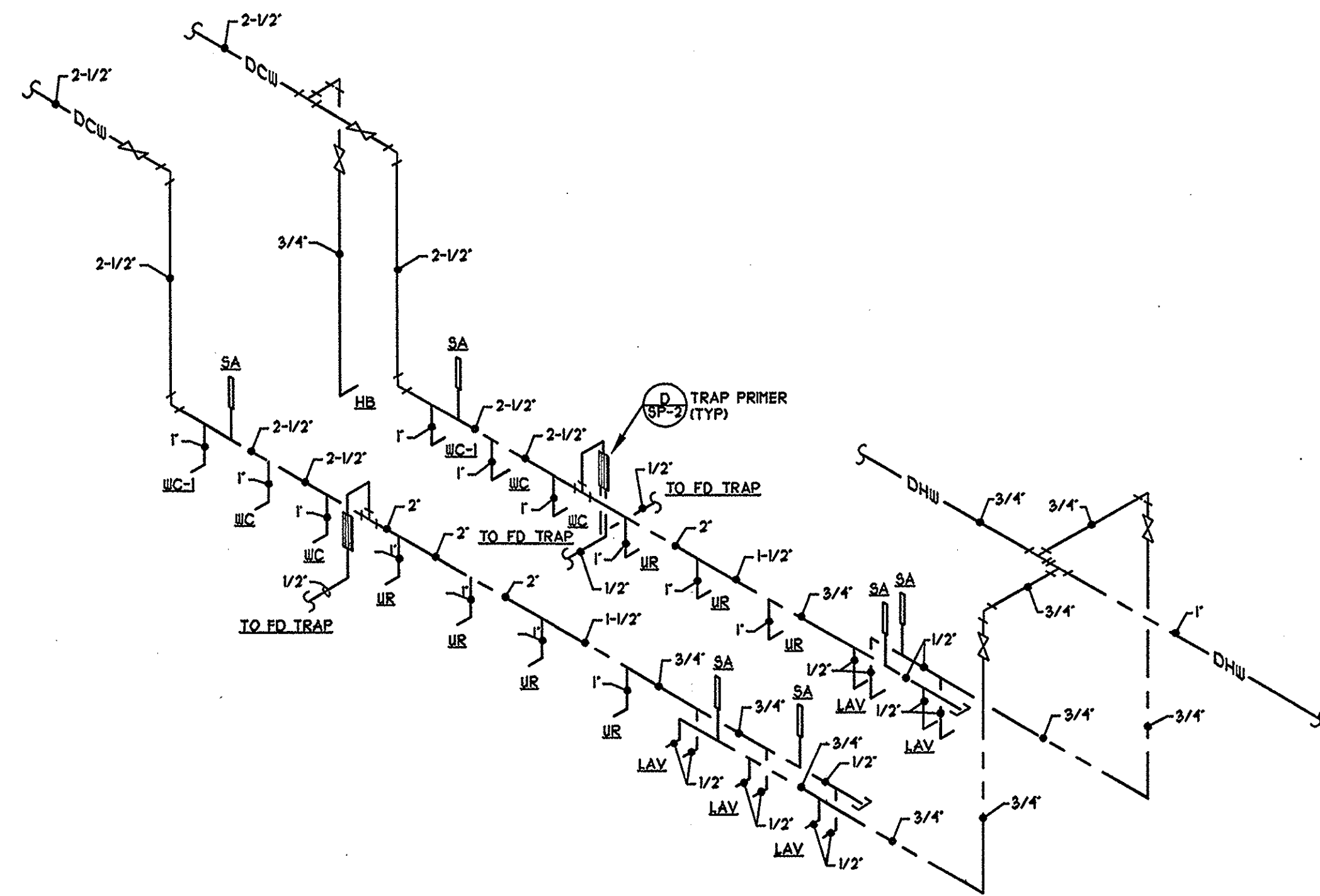
DRAWING DESCRIPTION: (EASTBOUND)
SANITARY STACK DIAGRAM - SOUTH SITE

PROJECT NO. 770-2003-074
1/70 LICKING COUNTY REST AREA

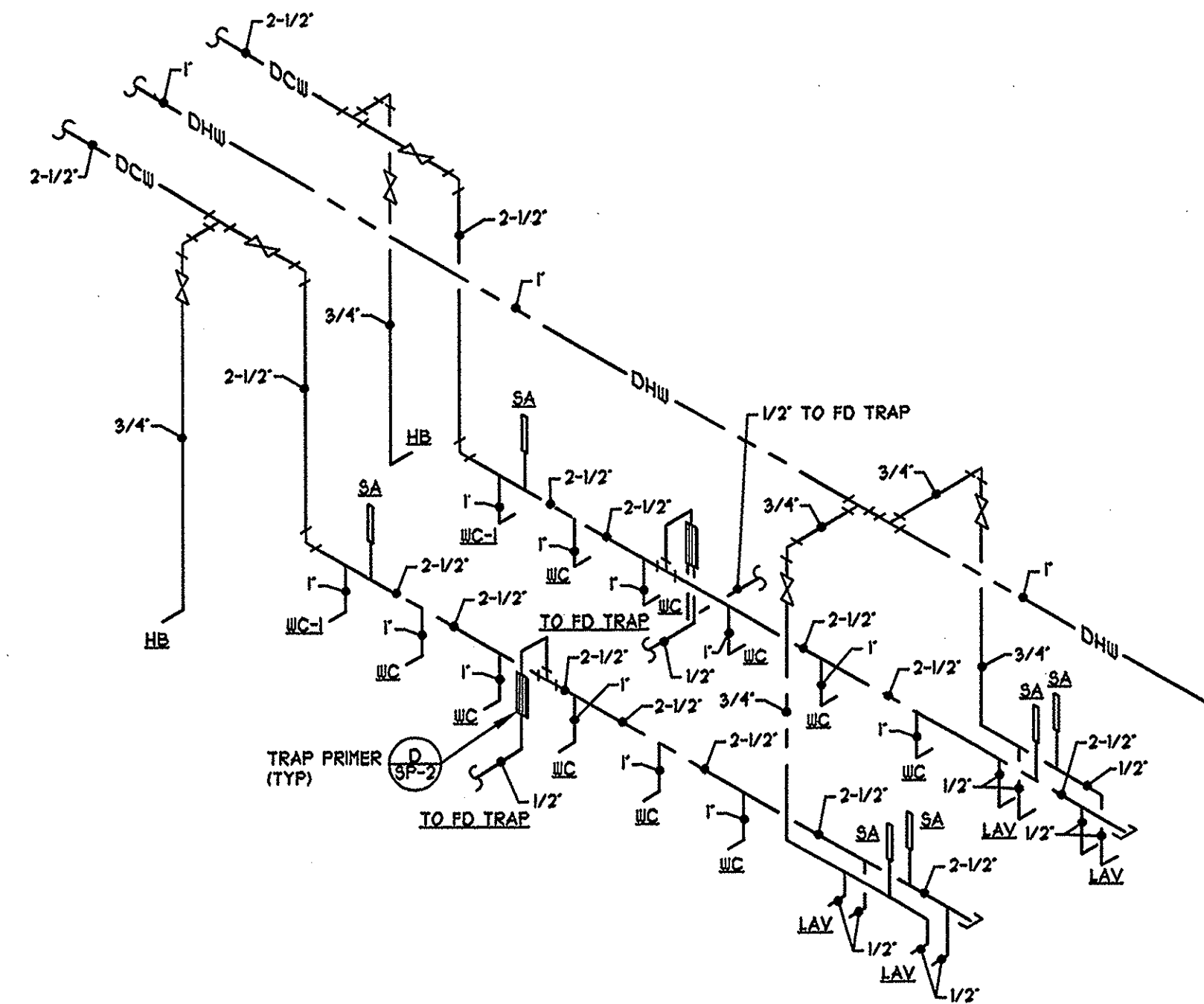
STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLOT DATE	DATE	
AUGUST 2004	AUGUST 2004	SP-3

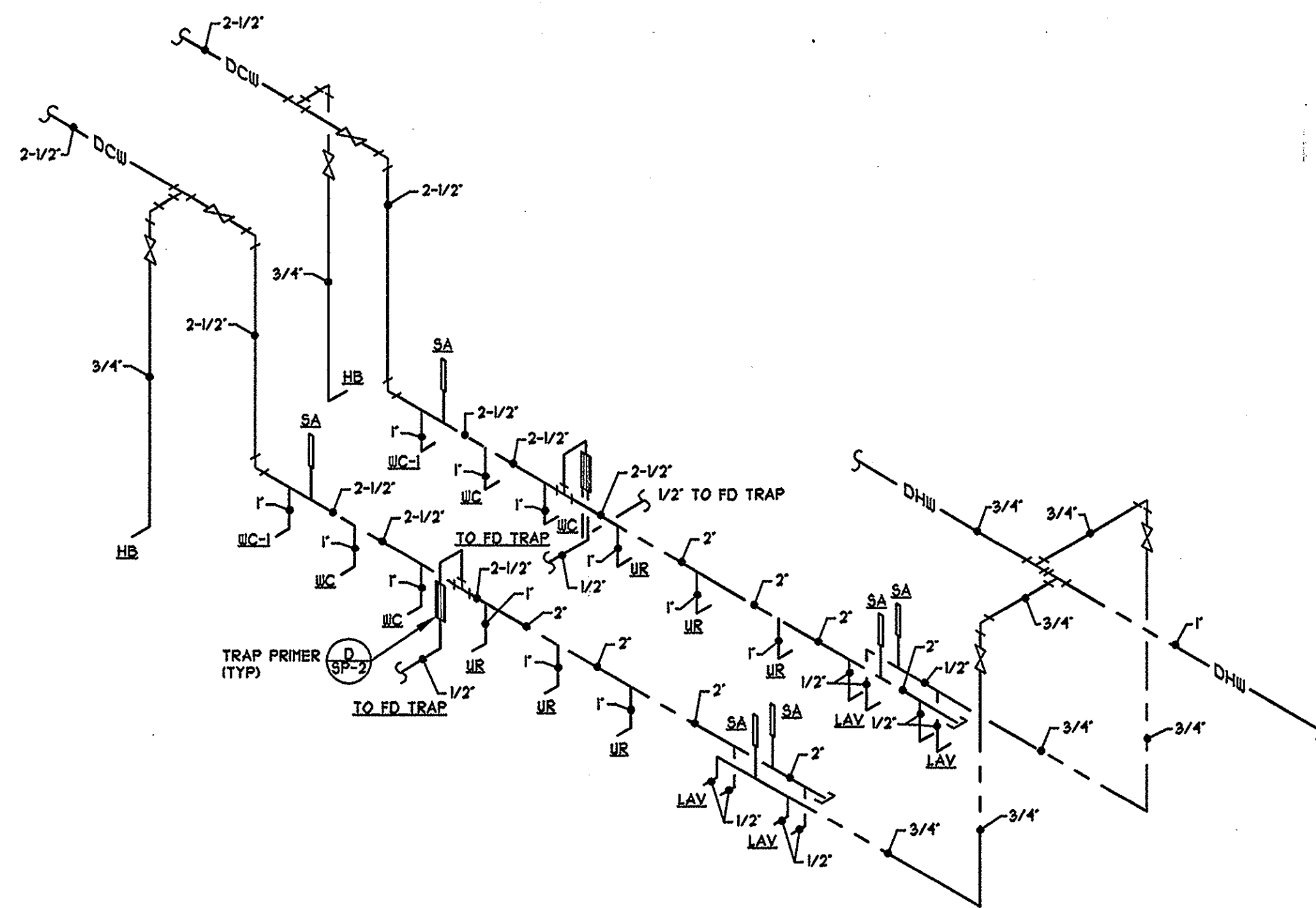
BID/CONSTRUCTION SET



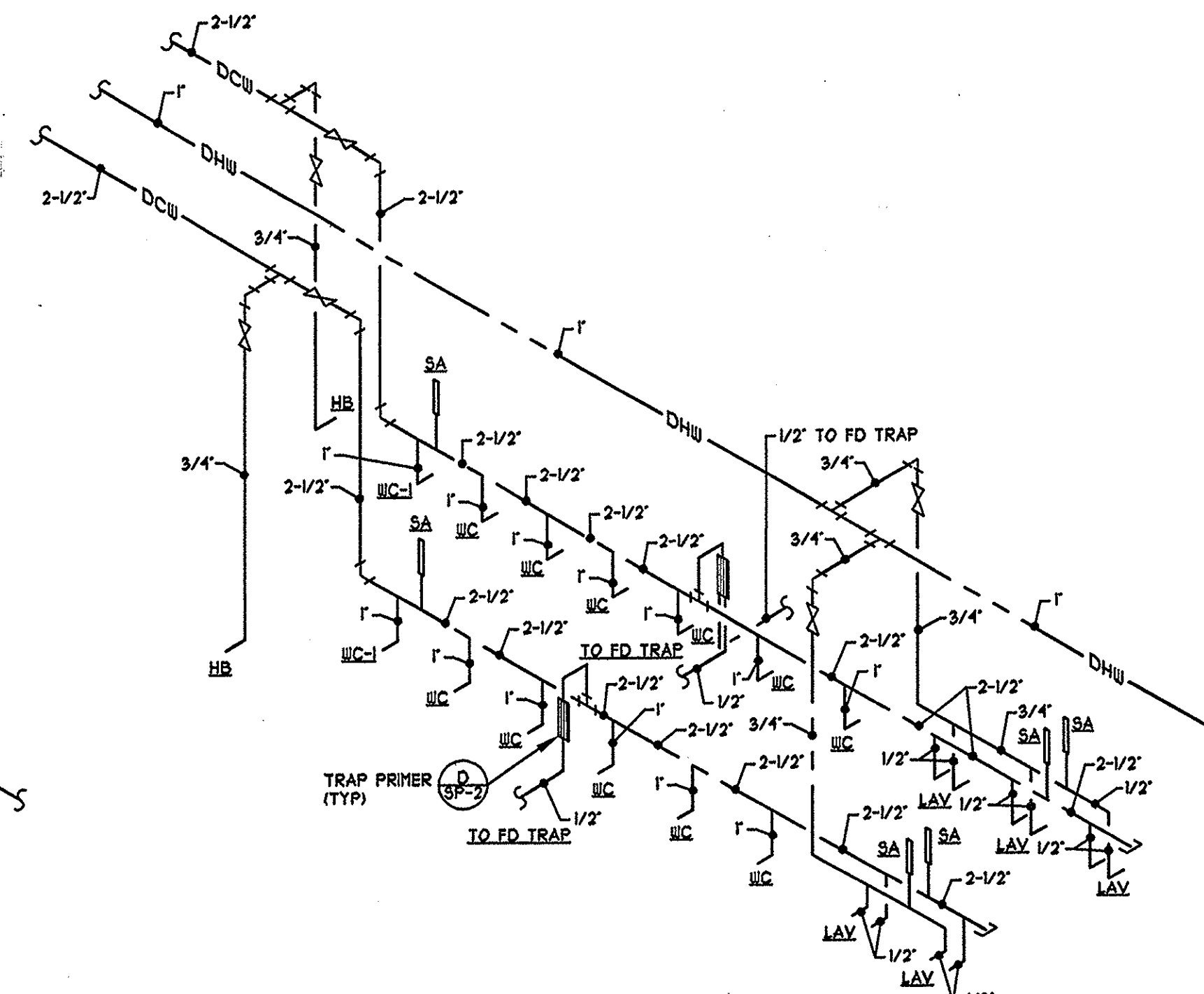
A MEN'S TOILET ROOM WATER RISER DIAGRAM
NO SCALE



B WOMEN'S TOILET ROOM WATER RISER DIAGRAM
NO SCALE



C MEN'S TOILET ROOM WATER RISER DIAGRAM
NO SCALE

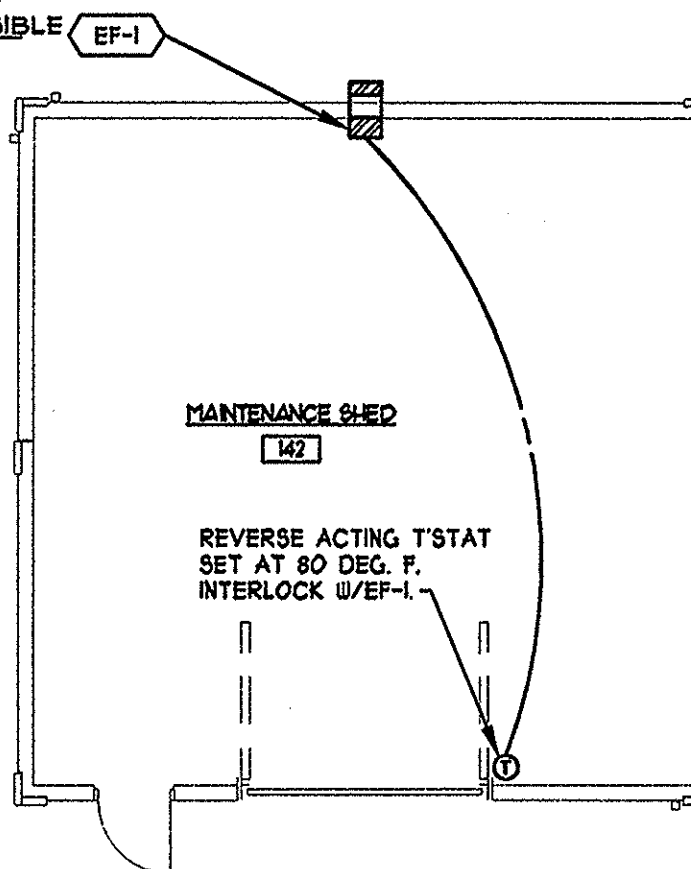


D WOMEN'S TOILET ROOM WATER RISER DIAGRAM
NO SCALE

1/8" = 1'-0" 0 4' 8' 16' 24'		
CONSULTING ARCHITECTS & ENGINEERS ARCHITECT: OFFICE OF THE STATE ARCHITECT MECHANICAL/ELECTRICAL/STRUCTURAL S.P.A. INC. SITE/CIVIL: KZF DESIGN, INC. LANDSCAPE ARCHITECTURE: KINZELMAN KLINE		
REVISIONS		
NO.	DATE	DESCRIPTION
FOR: OHIO DEPT. OF TRANSPORTATION		
DRAWING DESCRIPTION: (EASTBOUND) DOMESTIC WATER RISER DIAGRAM - SOUTH SITE		
PROJECT NO. 770-2003-074 I/70 LICKING COUNTY REST AREA		
STATE OF OHIO DEPARTMENT OF ADMINISTRATIVE SERVICES GENERAL SERVICES DIVISION PREPARED BY: GENERAL SERVICES DIVISION OFFICE OF THE STATE ARCHITECT		
PLOT DATE	DATE	SP-4
AUGUST 2004	AUGUST 2004	

BID/CONSTRUCTION SET

WALL MTD. AS
HIGH AS POSSIBLE
COORD. W/GC



SEQUENCE OF OPERATION FANS EF-2,3,4 AND 5

THE FAN SHALL START FROM EITHER OF TWO KEY SWITCHES. THE KEY SWITCHES TO BE INSTALLED WITH SPRING RETURN. ONE IN EACH OF THE TWO RESTROOMS SERVED BY A FAN. WHEN A SWITCH IS OPERATED THE DAMPER SERVING THAT AREA SHALL OPEN AND THE FAN SHALL START. A TIMER SHALL KEEP THE FAN OPERATING AND THE DAMPER OPEN FOR 30 MIN. ADJUSTABLE. WHEN THE ALLOTTED TIME EXPIRES THE FAN SHALL STOP AND THE DAMPER SHALL SPRING BACK TO ITS NORMALLY CLOSED POSITION.

IF WHILE THE FAN IS STILL RUNNING, THE OTHER KEY SWITCH IS OPERATED THE FIRST DAMPER SHALL CLOSE AND THE OTHER DAMPER SHALL OPEN. THE FAN SHALL CONTINUE TO OPERATE. THE TIMER SHALL BE RESET TO RUN FOR 30 MINUTES. WHEN THE TIME EXPIRES THE FAN AND DAMPER SHALL SHUT DOWN AS DESCRIBED ABOVE.

SPECIAL NOTE:

INSTALL ALL DUCTWORK IN THE ATTIC SPACES IN SUCH A WAY AS TO PROVIDE FOR THE GREATEST FREE SPACE AND ACCESSIBILITY BY ODOT PERSONNEL.

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
SA	SUPPLY AIR
SR	SUPPLY REGISTER
EA	EXHAUST AIR
ER	EXHAUST REGISTER
CD	CEILING DIFFUSER
OA	OUTSIDE AIR
RA	RETURN AIR
RG	RETURN GRILLE
FCU	FAN COIL UNIT
HP	HEAT PUMP
ERV	ENERGY RECOVERY UNIT
OAL	OUTSIDE AIR LOUVER
AD	ACCESS DOOR
FD	FIRE DAMPER
MC	MECHANICAL CONTRACTOR
GC	GENERAL CONTRACTOR
EC	ELECTRICAL CONTRACTOR
PC	PLUMBING CONTRACTOR
⊖	THERMOSTAT (ELECTRIC)
TOD	TOP OF DUCT
BOD	BOTTOM OF DUCT
---	FLEXIBLE DUCT 14'-0" MAX. LENGTH
⊙	SMOKE DETECTOR (BY EC)
---	FLEXIBLE DUCT CONNECTOR
---	DUCT W/ INTERNAL LINING
---	MANUAL VOLUME DAMPER
---	FIRE DAMPER
---	ELBOW W/ DOUBLE THICKNESS TURNING VANES
---	FRESH/RETURN/EXHAUST AIR DUCT
---	SUPPLY AIR DUCT

GENERAL NOTES:

- MECHANICAL CONTRACTOR SHALL SAFE WASTE CONDENSATE DRAIN LINES FROM FCU'S UNITS. DRAIN PANS TO THE FLOOR. DRAIN WITH A 2" AIR GAP (MINIMUM).
- MECHANICAL CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR ROUTING OF DUCTWORK TO MAINTAIN 36" WORKSPACE IN FRONT OF PANELS & NO DUCTS DIRECTLY ABOVE PANELS.

1/8" = 1'-0" 0 4' 8' 16' 24'

CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL/ELECTRICAL/STRUCTURAL
S.R.A. INC.
SITE/CIVIL:
KZF DESIGN, INC.
LANDSCAPE ARCHITECTURE:
KINZELMAN KLINE

REVISIONS

NO.	DATE	DESCRIPTION



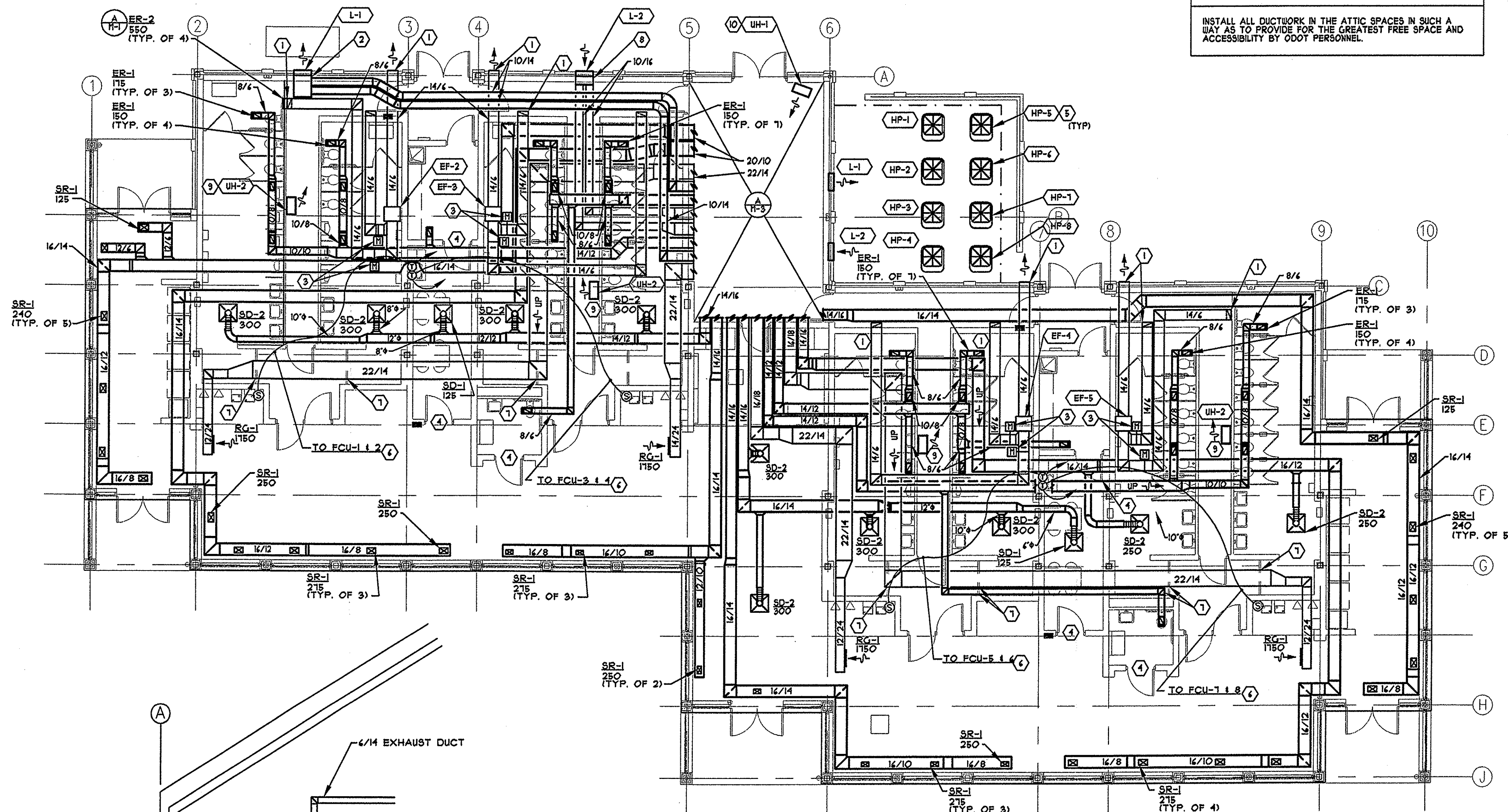
FOR:
OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
N/S MECHANICAL PLAN

PROJECT NO. 770-2003-074
1/70 LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLOT DATE: AUGUST 2004 DATE: AUGUST 2004 M-1



DETAIL OF SPECIAL EXHAUST
SCALE: 1/4" = 1'-0"

CODED NOTES:

- EXTEND 1/4" DUCT DOWN TIGHT TO WALL AND DOWN TO FLOOR. PROVIDE GRILLE 4" A.F.F. AND PAINT DUCTWORK SAME COLOR AS WALLS IN FUTURE ROOMS. DUCTWORK TO HAVE NO SHARP EDGES. EXTEND 1/4" DUCT THROUGH WALL TO SIDE WALL GRILLE. ER-2.
- CONSTRUCT A 24" X 24" X 3/8" SHEET METAL PLENUM CONNECTED TO LOUVER L-1. CONNECT 10" EXHAUST DUCTWORK TO PLENUM.
- MOD RUSKIN MODEL C050 CONTROL DAMPER WITH RUSKIN MODEL ABA300 ACTUATOR. 120 VOLT WITH SPRING RETURN W/ BACKDRAFT DAMPER BY GREENHECK. DAMPER AND ASSOCIATED FAN AND DUCTWORK ARE ATTIC MOUNTED WITH ACCESS THROUGH REZANNIE.
- GENERAL CONTRACTOR TO UNDER CUT DOOR, 1" MIN. ABOVE FLOORING.
- MECHANICAL CONTRACTOR TO EXTEND REFRIGERANT LINE SET FROM THE HEAT PUMP UNIT TO THE DX COOLING COIL AT FCU UNIT. SIZE SHALL BE AS RECOMMENDED BY THE MANUFACTURER.
- MOUNT REMOTE SENSOR AT 36" ABOVE FINISHED FLOOR. SENSOR TO BE WIRED BACK TO PROGRAMMABLE THERMOSTAT IN SERVICE AREA.
- COORDINATE DUCT HEIGHT WITH OVERHEAD ROLLING GRILLE SYSTEM. FOR FURTHER INFORMATION REFER TO DETAIL 9. SHEET A31.
- CONSTRUCT A 24" X 24" X 1/8" SHEET METAL PLENUM CONNECTED TO LOUVER L-2. CONNECT 10" EXHAUST DUCTWORK TO PLENUM.
- ELECTRIC UNIT HEATER, UH-2, 3.1 KW, 208 VOLT, SINGLE PHASE, WITH 24 VOLT CONTROL TRANSFORMER FOR THERMOSTAT. THERMOSTAT FOR UNIT HEATER TO ENERGIZE WHEN ROOM TEMPERATURE IS 40 DEGREES OR BELOW. PROVIDE CHARK MODEL # MHH-05-2L OR EQUAL BY BERKO OR HARKEL.
- ELECTRIC UNIT HEATER, UH-1, 5 KW, 208 VOLT, SINGLE PHASE, WITH 24 VOLT CONTROL TRANSFORMER FOR THERMOSTAT. THERMOSTAT FOR UNIT HEATER TO ENERGIZE WHEN ROOM TEMPERATURE IS 40 DEGREES OR BELOW. PROVIDE CHARK MODEL # MHH-05-8L OR EQUAL BY BERKO OR HARKEL.

MECHANICAL PLAN
SCALE: 1/8" = 1'-0"

SPLIT HEAT PUMP PACKAGE SCHEDULE																					
TAG	MANUFACTURER 1 MODEL NUMBER	CFM	ESP (IN.)	OUTDOOR AIR	HEAT-PUMP HEATING			MOTOR HP 1 VOLTAGE	AUX. HTR. ELECTRIC 40 AMPS FUSE	DX COOLING COIL DATA			HEAT PUMP UNIT						REMARKS		
					HIGH (MBH)	LOW (MBH)	HSPF			TOTAL (MBH)	SENSIBLE (MBH)	E.A.T. (DB/°B)	NOM. TONNAGE	AMBIENT AIR TEMP.	SEER	VOLTAGE	OPER. VOLTS MAX.	MIN.			
FCU-1	CARRIER FC4BNB048	1325	.4	425	~3 °F 21.8	~1 °F 26.5	8.1	3/4 HP 208V/1 PH	1.5 KW 208V/1PH 36.2 AMPS MIN.	49.1	21	79/64.9	HP-1	CARRIER 38YRAO48	4	95	11.1	208/230V. 1 PH	253	181	SEE BELOW
FCU-2	CARRIER FC4BNB048	1325	.4	425	~3 °F 21.8	~1 °F 26.5	8.1	3/4 HP 208V/1 PH	1.5 KW 208V/1PH 36.2 AMPS MIN.	49.1	21	79/64.9	HP-2	CARRIER 38YRAO48	4	95	11.1	208/230V. 1 PH	253	181	SEE BELOW
FCU-3	CARRIER FC4BNB048	1325	.4	425	~3 °F 21.8	~1 °F 26.5	8.1	3/4 HP 208V/1PH	1.5 KW 208V/1PH 36.2 AMPS MIN.	49.1	21	79/64.9	HP-3	CARRIER 38YRAO48	4	95	11.1	208/230V. 1 PH	253	181	SEE BELOW
FCU-4	CARRIER FC4BNB048	1325	.4	425	~3 °F 21.8	~1 °F 26.5	8.1	3/4 HP 208V/1PH	1.5 KW 208V/1PH 36.2 AMPS MIN.	49.1	21	79/64.9	HP-4	CARRIER 38YRAO48	4	95	11.1	208/230V. 1 PH	253	181	SEE BELOW
FCU-5	CARRIER FC4BNB048	1325	.4	425	~3 °F 21.8	~1 °F 26.5	8.1	3/4 HP 208V/1 HP	1.5 KW 208V/1PH 36.2 AMPS MIN.	49.1	21	79/64.9	HP-5	CARRIER 38YRAO48	4	95	11.1	208/230V. 1 PH	253	181	SEE BELOW
FCU-6	CARRIER FC4BNB048	1325	.4	425	~3 °F 21.8	~1 °F 26.5	8.1	3/4 HP 208V/1 PH	1.5 KW 208V/1PH 36.2 AMPS MIN.	49.1	21	79/64.9	HP-6	CARRIER 38YRAO48	4	95	11.1	208/230V. 1 PH	253	181	SEE BELOW
FCU-7	CARRIER FC4BNB048	1325	.4	425	~3 °F 21.8	~1 °F 26.5	8.1	3/4 HP 208V/1PH	1.5 KW 208V/1PH 36.2 AMPS MIN.	49.1	21	79/64.9	HP-7	CARRIER 38YRAO48	4	95	11.1	208/230V. 1 PH	253	181	SEE BELOW
FCU-8	CARRIER FC4BNB048	1325	.4	425	~3 °F 21.8	~1 °F 26.5	8.1	3/4 HP 208V/1PH	1.5 KW 208V/1PH 36.2 AMPS MIN.	49.1	21	79/64.9	HP-8	CARRIER 38YRAO48	4	95	11.1	208/230V. 1 PH	253	181	SEE BELOW

FURNISH WITH THE FOLLOWING:

1. PROGRAMMABLE 2 STAGE HT/COOL T'STAT W/REMOTE SENSORS	5. REFRIGERANT ACC. AND LINE SIZE KIT SUCTION LINE TO BE INSULATED	9. SCROLL COMPRESSOR (10 YEAR LIMITED WARRANTY)	13. ISOLATION RELAY	18. AUX. HEATER SHALL HAVE INTERNAL CIRCUIT PROTECTION.
2. THROUGHPUT FILTERS (2 SETS)	6. ENERGY EFFICIENT FAN 1 FAN MOTOR	10. DEFROST CONTROL BOARD	14. CRANK CASE HEATER	19. TOTAL FAN COIL UNIT 1 AUX. HEAT HAS 53.8 MIN. AMPS/40 MAX. FUSE
3. RETURN AIR DUCT FLANGE	7. SOUND HOOD	11. EXTERNAL SERVICE VALVES	15. OUTDOOR THERMOSTAT	20. AUX. HEATER PART NUMBER CARRIER KCFC080B0106, 1.5 KW.
4. 208V/1PH, SINGLE POINT WIRING KIT	8. DISCHARGE MUFFLER	12. EVAPORATOR FREEZE THERMOSTAT	16. FILTER DRIER-BI-FLOW	
			17. SNOW RACK (8" HIGH MOUNTING RACK)	

SIMILAR MANUFACTURER: TRANE, YORK, MCQUAY

ENERGY RECOVERY VENTILATOR SCHEDULE																				
TAG	MANUFACTURER # MODEL NUMBER	SUPPLY FAN			EXHAUST FAN			SUMMER DESIGN		WINTER DESIGN		SUPPLY CONDITIONS				PRE HEATER		REMARKS		
		CFM	% ESP	HP # VOLTAGE	CFM	% ESP	HP # VOLTAGE	O.A.T. DB/WB	E.A.T. (*F)	O.A.T. DB/WB	E.A.T. (*F)	CFM	O.A.T. DB/WB	E.A.T. (*F)	Spec. Hum. gr/lb Summer/Winter	Enthalpy Btu/lb Summer/Winter	KW		VOLTAGE	WEIGHT (LBS.)
ERV-1	GREENHECK ERV-25H-A	850	.5	1/2 HP 208V, 1 PH	850	.5	1/2 HP 208V, 1 PH	93/71	75/50%	5/31	72/20%	850	79.8/44.9	54.1/41.3	78/18	31.4/15.8	4.1	208V, 1 PH	300	SEE BELOW
ERV-2	GREENHECK ERV-25H-A	850	.5	1/2 HP 208V, 1 PH	850	.5	1/2 HP 208V, 1 PH	93/71	75/50%	5/31	72/20%	850	79.8/44.9	54.1/41.3	78/18	31.4/15.8	4.1	208V, 1 PH	300	SEE BELOW
ERV-3	GREENHECK ERV-25H-A	850	.5	1/2 HP 208V, 1 PH	850	.5	1/2 HP 208V, 1 PH	93/71	75/50%	5/31	72/20%	850	79.8/44.9	54.1/41.3	78/18	31.4/15.8	4.1	208V, 1 PH	300	SEE BELOW
ERV-4	GREENHECK ERV-25H-A	850	.5	1/2 HP 208V, 1 PH	850	.5	1/2 HP 208V, 1 PH	93/71	75/50%	5/31	72/20%	850	79.8/44.9	54.1/41.3	78/18	31.4/15.8	4.1	208V, 1 PH	300	SEE BELOW

FURNISH WITH THE FOLLOWING:

1. ENERGY RECOVERY CASSETTE WITH A DESICCANT WHEEL	7. MOTOR STARTERS	14. OUTDOOR AIR INTAKE DAMPER, MOTORIZED, LOW LEAKAGE, 24V CONTROL AMPS.
2. TWO BLOWER MOTOR ASSEMBLIES	8. 24 VAC CONTROL TRANSFORMER	15. FURNISH AND INSTALL WITH A 4.1 KW DUCT PRE-HEATER, 208V/1Ø
3. INTERNAL RUBBER MOUNTED ISOLATORS	9. ENTHALPY SENSOR WITH AUTOMATIC WINTER OVERRIDE	16. SOLID STATE SPEED CONTROL
4. INTERNAL (7) FOIL FACED INSULATION	10. EXHAUST AIR INTAKE DAMPER, MOTORIZED, LOW LEAKAGE	17. DIRTY FILTER SENSOR
5. SINGLE POINT WIRING	11. REMOTE POWER W/ TIME CLOCK, HOA SWITCH, ECON SW, ETC...	18. 33.425 MIN. CIRCUIT AMPS, 1 40 MAX. OVER CURRENT PROTECTION.
6. INTERNAL CONTROL CENTER WITH DOOR INTERLOCKING DISCONNECTS	12. OUTDOOR AIR FILTER, 2" PLEATED (30% EFFICIENT)	
	13. ROTATION SENSOR	

SIMILAR MANUFACTURERS: SEMCO, LENNOX

FAN SCHEDULE											
TAG	MANUFACTURER # MODEL NUMBER	AREA SERVED	SERVICE	CFM	ESP	MOTOR HP # VOLTAGE	FAN RPM	FAN TYPE	MAX. SOUND LEVEL	WEIGHT (LBS)	REMARKS
EF-1	GREENHECK SEI-10-440-D5	MAINTENANCE SHED	EXHAUST VENTILATION	640	20"	1/12 HP 120V, 1 PH NTO WATTS	1850	WALL MOUNTED	5.9 SONES	30	SEE NOTES 1, 2, & 3
EF-2											
EF-3	GREENHECK BCF-106	TOILET RHS FOR MOPPING	EXHAUST	610	.40	1/4 HP 120V, 1 PH	1851	INLINE FAN	5.9 SONES	30	SEE NOTES 1 & 2 PROVIDE WALL CAP AND SEAL WATER TIGHT PROVIDE WITH N.O.D., 120V, 1A., INTERLOCKED WITH APPROPRIATE EXHAUST FAN. KEY SWITCH TO ACTIVATE FAN. REFER TO ELECTRICAL DIAG'S.
EF-4											
I											
EF-5											

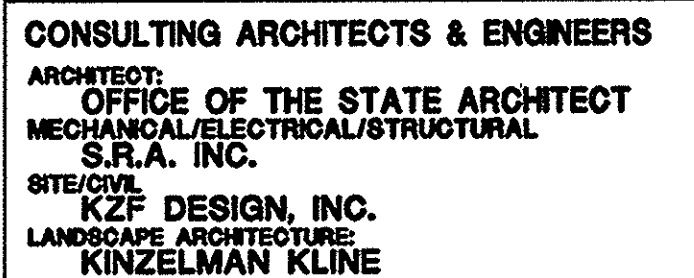
GRILLE, REGISTER AND DIFFUSER SCHEDULE											REMARKS
TAG	MANUFACTURER & MODEL NUMBER	CFM	AIR PATTERN	NECK SIZE	DAMPER	FRAME STYLE	DEVICE SIZE	MAXIMUM NC LEVEL	FINISH	MATERIAL	
SD-1	PRICE ASPD	AS NOTED	AS SHOWN	8"	OPPOSED BLADE	TYPE 3I SURFACE MOUNTED	24x24	35	WHITE	ALUMINUM	EXAMPLE → SD-2 300
SD-2	PRICE ASPD	AS NOTED	AS SHOWN	10"	OPPOSED BLADE	TYPE 3I SURFACE MOUNTED	24x24	35	WHITE	ALUMINUM	
SR-1	PRICE £200AL	AS NOTED	DOUBLE DEFLECTION	12X6	OPPOSED BLADE	TYPE F SURFACE MOUNTED	14x8	35	WHITE	ALUMINUM	
SR-2	PRICE £35	AS NOTED	DOUBLE DEFLECTION	10X4	NONE	TYPE F SURFACE MOUNTED	12X6	35	WHITE	ALUMINUM	
RG-1	PRICE £35D	AS NOTED	LOUVERED RETURN GRILLE	22 X 22	OPPOSED BLADE	TYPE F SURFACE MOUNTED	24 X 24	35	WHITE	ALUMINUM	
ER-1	PRICE £35D	AS NOTED	LOUVERED EXHAUST GRILLE	10 X 6	NONE	TYPE F SURFACE MOUNTED	12 X 8	35	WHITE	ALUMINUM	
ER-2	PRICE NSGA	550	EXHAUST	14 X 6	NONE	TYPE A WALL SLEEVE	16 X 8	35	WHITE	ALUMINUM	

EXHAUST LOUVERS	
L-1	SHALL BE RUSKIN TYPE ELF3250XD" DEEP DRAINABLE BLADE STATIONARY LOUVER. PROVIDE COMPLETE WITH EXTRUDED ALUMINUM FRAME W/CAULKING SLOTS, EXTRUDED ALUMINUM BLADES, BIRDSOON, BAKED ACRYLIC ENAMEL FINISH W/FINAL COAT. AS SELECTED BY THE ARCHITECT FROM STANDARD COLOR CHART FROM COLOR LONG FRAME 1 ANCA CERTIFIED FOR BOTH SOUND & AIR. SIZE AND C/P# AS INDICATED ON DRAWING. LOUVER SIZE IS 24" WIDE X 24" LONG. ADDITIONAL MANUFACTURERS: GREENHECK, AIRLOUTE

FRESH AIR INTAKE LOUVERS	
L-2	SHALL BE RUSKIN TYPE ELF325SD (4" DEEP) DRAINABLE BLADE STATIONARY LOUVER. PROVIDE COMPLETE WITH EXTRUDED ALUMINUM FRAME W/CAULKING SLOTS. EXTRUDED ALUMINUM BLADES, EXTRUDED ALUMINUM BAKED ENAMEL FINISH. FRAME AS SET BY THE ARCHITECT. FROM STANDARD COLOR CHART. FRONT FLANGE FRAME 1" A/CIA CERTIFIED FOR BOTH SOUND 1" AIR, 5" DBC AND CPM AS INDICATED ON DRAWING. LOUVER SIZE 24" WIDE x 24" HIGH. TYPICAL OF FOUR OUTSIDE AIR LOUVERS.
ADDITIONAL MANUFACTURERS: GREENHECK, AIROLITE	

FRESH AIR INTAKE LOUVERS	
L-3	SHALL BE RUSKIN TYPE ELR35X4 (4" DEEP) STATIONARY LOUVER. PROVIDE COMPLETE WITH EXTRUDED ALUMINUM FRAME @/CAULKING SLOTS, EXTRUDED ALUMINUM BLADES, INSECT SCREEN, BAKED ACRYLIC ENAMEL FINISH W/FFS. AS SELECTED BY THE ARCHITECT FROM STANDARD COLOR CHART. FRONT FLANGE FRAME, LOUVER SIZE 48". TURN LOUVER OVER TO GENERAL CONTRACTOR FOR INSTALLATION.
ADDITIONAL MANUFACTURERS: GREENHECK, AIROLITE	

DUCT SYSTEM	SHACNA PRESSURE CLASS	SHACNA SEAL CLASS	DUCT MATERIAL	INSULATION
SUPPLY AIR DUCTWORK	2"	A	GALVANIZED STEEL	2" DUCT WRAP
RETURN AIR DUCTWORK	1"	B	GALVANIZED STEEL	2" DUCT LINING
OUTSIDE AIR DUCTWORK	1"	A	GALVANIZED STEEL	2" DUCT WRAP
EXHAUST AIR DUCTWORK	1"	C	GALVANIZED STEEL	2" DUCT WRAP
HOPPING EXHAUST AIR DUCTWORK	1"	C	ALUMINUM	2" DUCT LINING
<u>NOTE:</u> ALL DUCTWORK SIZES ARE AIRWAY DIMENSIONS				



NO.	DATE	DESCRIPTION
-----	------	-------------

[illegible]

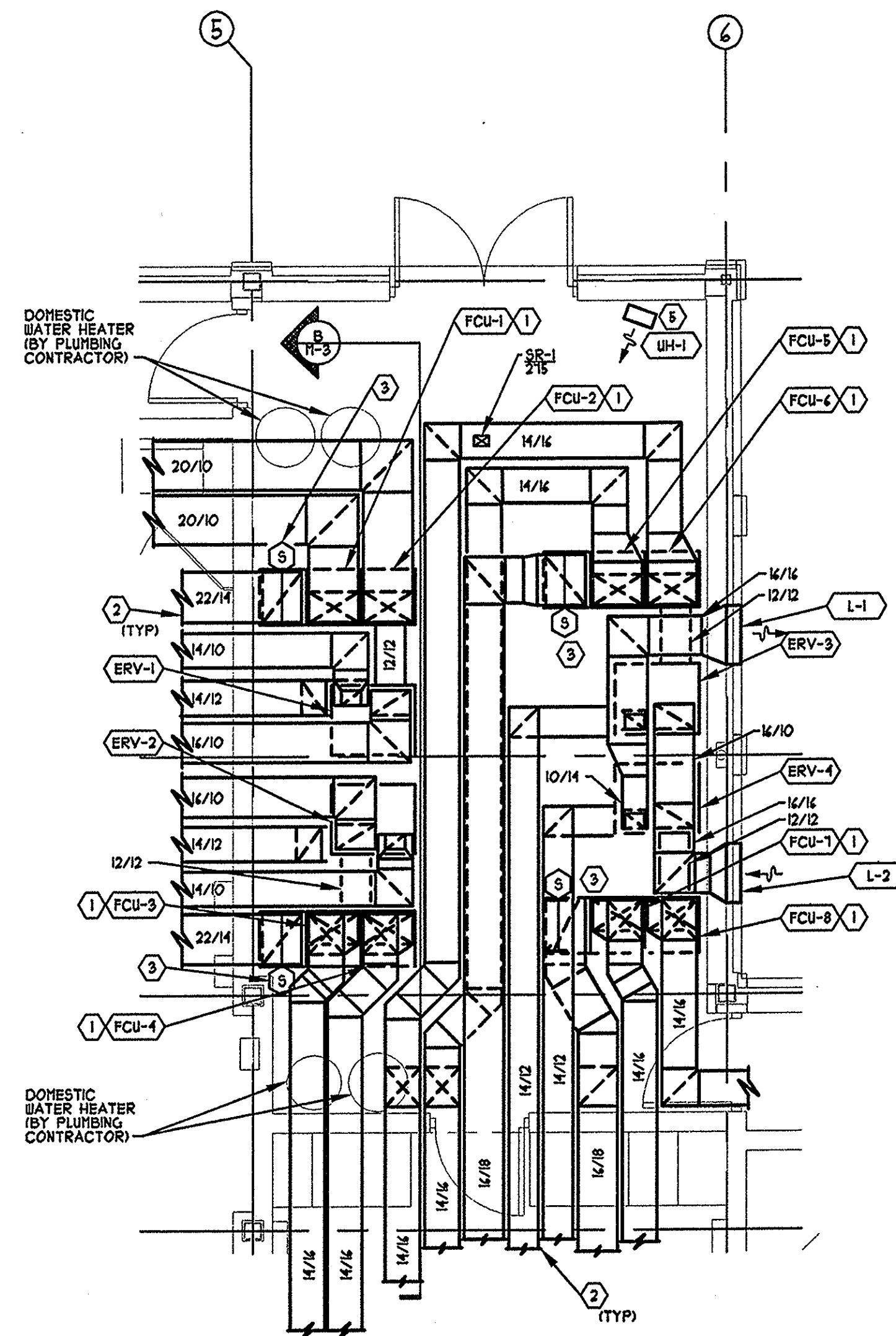
DRAWING DESCRIPTION:
N/S MECHANICAL SCHEDULES

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION

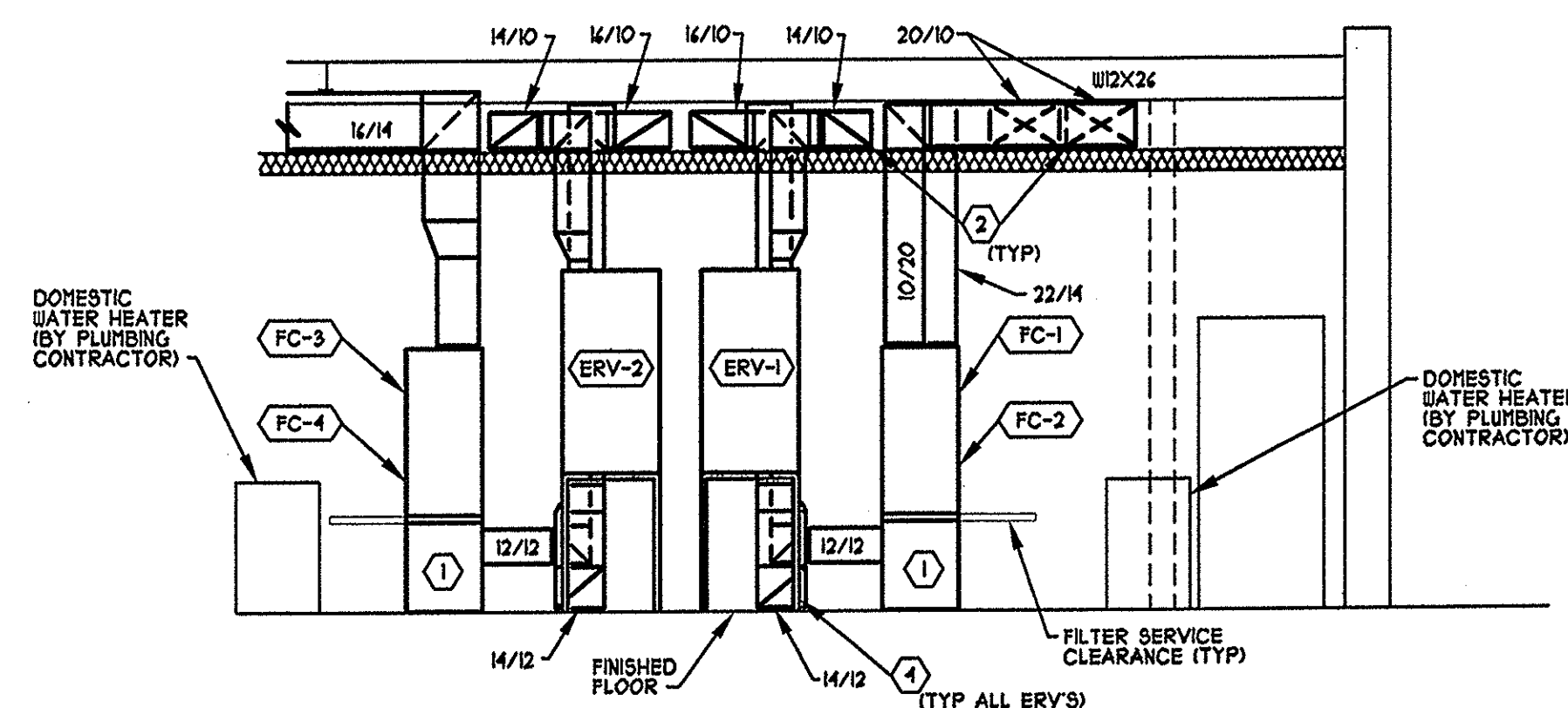
PLOT DATE	DATE
AUGUST 2004	AUGUST 2004

M-2

C:\STATION\MECH\DRAWING\1\770-2003-074\MECH\CONSTRUCTION\SET\MECH-3.DWG DATE: JUL 20, 2004 TIME: 11:45 AM



A ENLARGED MECHANICAL PLAN
SCALE: 1/4" = 1'-0"



B SECTION
SCALE: 1/4" = 1'-0"

CODED NOTES:

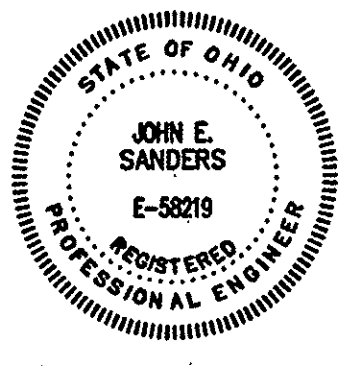
- 1 FURNISH AND INSTALL STEEL SUPPORT FOR BOTH UNITS WITH ONE BOTTOM RETURN AIR PLENUM. PROVIDE WITH T LINED INSULATION FOR NOISE REDUCTION. SUPPORT SHALL BE 24" HIGH STEEL ANGLE FRAME BY MECH. CONTRACTOR. FURNISH CONNECTION FROM RETURN AIR DUCT TO PLENUM W/FLEXIBLE CONNECTOR.
- 2 REFER TO SPECIFICATIONS FOR DUCTWORK INSULATION IN ATTIC SPACE/OPEN TRUSS AREA. ALL DUCT SHALL BE INSULATED.
- 3 MECHANICAL CONTRACTOR SHALL PROVIDE, INSTALL AND WIRE SMOKE DETECTOR IN R.A. DUCT. TO DE-ENERGIZE FCUS & ERVS WHEN SMOKE DETECTOR IS ACTIVATED. MECHANICAL CONTRACTOR TO PROVIDE, INSTALL AND WIRE REMOTE TEST SWITCH IN ELECTRICAL ROOM.
- 4 FURNISH AND INSTALL STEEL SUPPORT FOR HEAT RECOVERY UNITS.
- 5 ELECTRIC UNIT HEATER, UH-1 & UH-2, 208 VOLT, SINGLE PHASE, WITH 24 VOLT CONTROL TRANSFORMER FOR THERMOSTAT. THERMOSTAT FOR UNIT HEATER TO ENERGIZE WHEN ROOM TEMPERATURE IS 40 DEGREES OR BELOW. PROVIDE CHARK MODEL # RH-05-BL OR EQUAL BY BERKO OR PARKER.

1/8" NOTED 1'-0" 0 4' 8' 16' 24'

CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL/ELECTRICAL/STRUCTURAL
S.R.A. INC.
SITE/CIVIL
KZF DESIGN, INC.
LANDSCAPE ARCHITECTURE
KINZELMAN KLINE

REVISIONS

NO.	DATE	DESCRIPTION



FOR:
OHIO DEPT. OF TRANSPORTATION

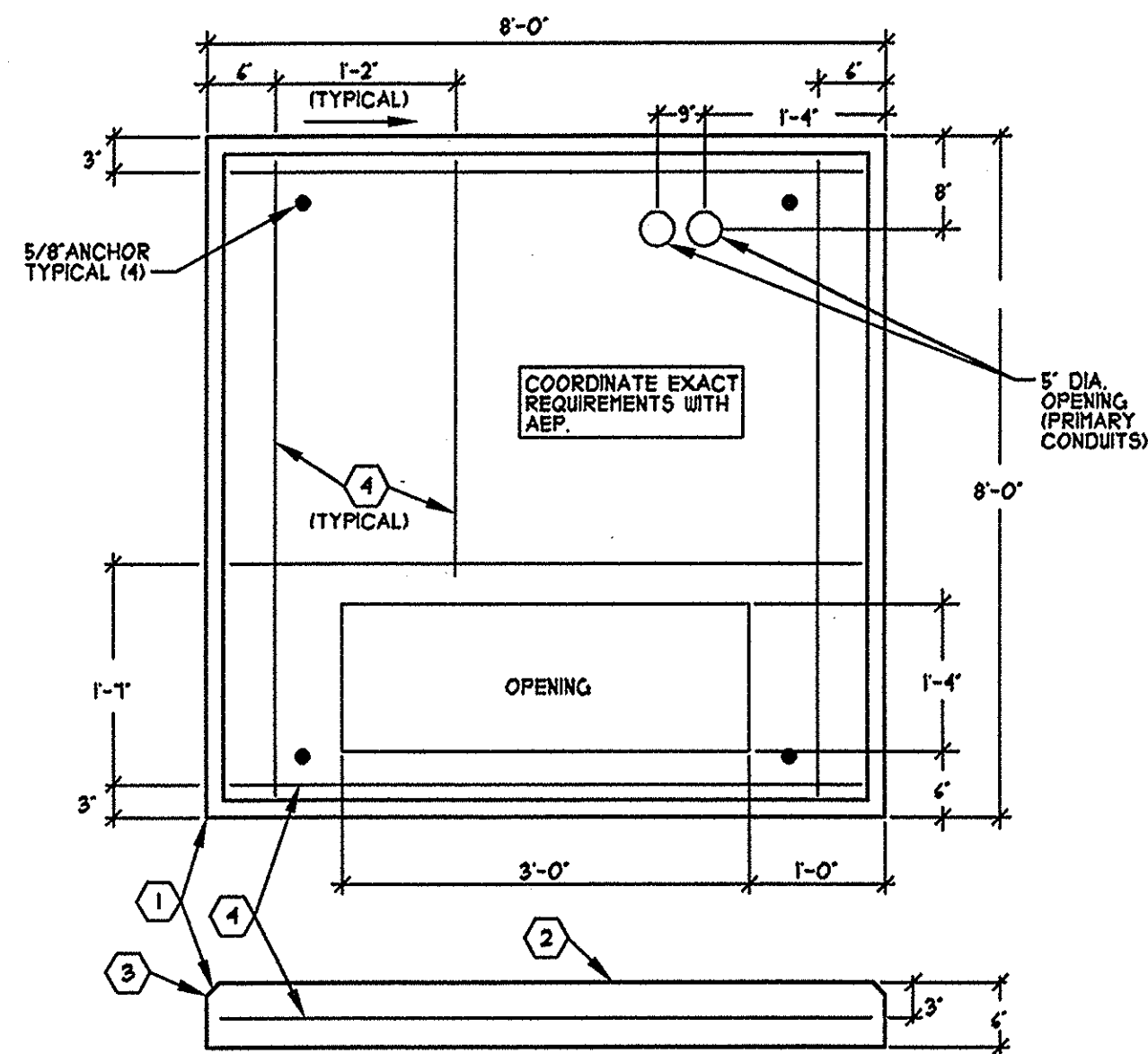
DRAWING DESCRIPTION:
N/S MECHANICAL DETAILS & SECTION CUTS

PROJECT NO. 770-2003-074
I/70 LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLOT DATE
AUGUST 2004
DATE
AUGUST 2004
M-3

BID/CONSTRUCTION SET



CODED NOTES

1. CHAMFER ALL EXPOSED EDGES 1"
2. FINISH TOP SURFACE SMOOTH AND LEVEL.
3. SIDES MAY BE TAPERED UP TO 1/2".
4. #4 - 14" O/C E.W.

A PRIMARY TRANSFORMER PAD
NES-1 N.T.S.

UTILITY CONTACTS

ELECTRIC:
AMERICAN ELECTRIC POWER
MARK KNELLER
111 HOPEWELL DRIVE
HEATH, OHIO 45034
(703) 243-4043

TELEPHONE:
SPRINT
4
4

GENERAL NOTES

1. FOR SITE LIGHTING SEE SHEETS C4.1 THRU C4.11.
2. COORDINATE ALL ROUTING AND REQUIREMENTS OF UTILITY CONDUITS WITH UTILITY COMPANY PRIOR TO ROUGH-IN.
3. CONTRACTOR SHALL USE RIGID WIDE SWEEP ELBOWS FOR ALL UTILITY CONDUIT TURNS.
4. STRAIGHT RUNS OF UTILITY CONDUITS SHALL BE SCHEDULE 40 PVC.

CODED NOTES

1. INGROUND PULL BOX FOR UTILITY COMPANY USE. REFER TO CIVIL DETAILS AND COORDINATE WITH APPROPRIATE UTILITY COMPANY.
2. LOCATION OF CONDUIT CAP AND PULL BOX IF PAVING ALTERNATE IS NOT ACCEPTED.
3. 1 1/4" METERING CONDUIT (WITH PULL WIRE).
4. APPROXIMATE LOCATION OF TELEPHONE SERVICE BOARD. SEE POWER PLAN SHEET NE-1 AND TELEPHONE SYSTEM DIAGRAM, DETAIL A SHEET NE-5.
5. APPROXIMATE LOCATION OF AUTOMATIC TRANSFER SWITCH. SEE POWER PLAN SHEET NE-1.
6. APPROXIMATE LOCATION OF PANEL 'MSB'. SEE POWER PLAN SHEET NE-1.
7. 5" SPARE CONDUIT (CAPPED).
8. STANDBY GENERATOR (ALTERNATE). SEE SHEET NES-2 AND SINGLE LINE DIAGRAM SHEET NE-3.
9. UTILITY COMPANY METER.
10. 4" SPARE CONDUIT (CAPPED).
11. CONDUIT STUBBED UP AND CAPPED AT LIGHT POLE CASE FOR FUTURE CCTV CAMERA #3. SEE SHEETS LU AND NE-5.
12. CONDUIT STUBBED UP AND CAPPED AT LIGHT POLE CASE FOR FUTURE CCTV CAMERA #10. SEE SHEETS LU AND NE-5.
13. CONDUIT STUBBED UP AND CAPPED AT LIGHT POLE CASE FOR FUTURE CCTV CAMERA #11. SEE SHEETS LU AND NE-5.

1" = 50'

0 25' 50' 75'

CONSULTING ARCHITECTS & ENGINEERS

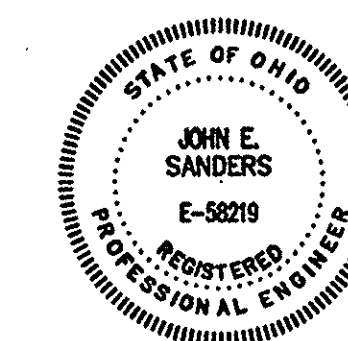
ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL/ELECTRICAL/STRUCTURAL
S.R.A. INC.

SITE/CIVIL:
KZF DESIGN, INC.

LANDSCAPE ARCHITECTURE:
KINZELMAN KLINE

REVISIONS

NO.	DATE	DESCRIPTION



FOR:
OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
ELECTRICAL SITE PLAN - NORTH SIDE (WEST BOUND)

PROJECT NO. 770-2003-074
1/70 LICKING COUNTY REST AREA

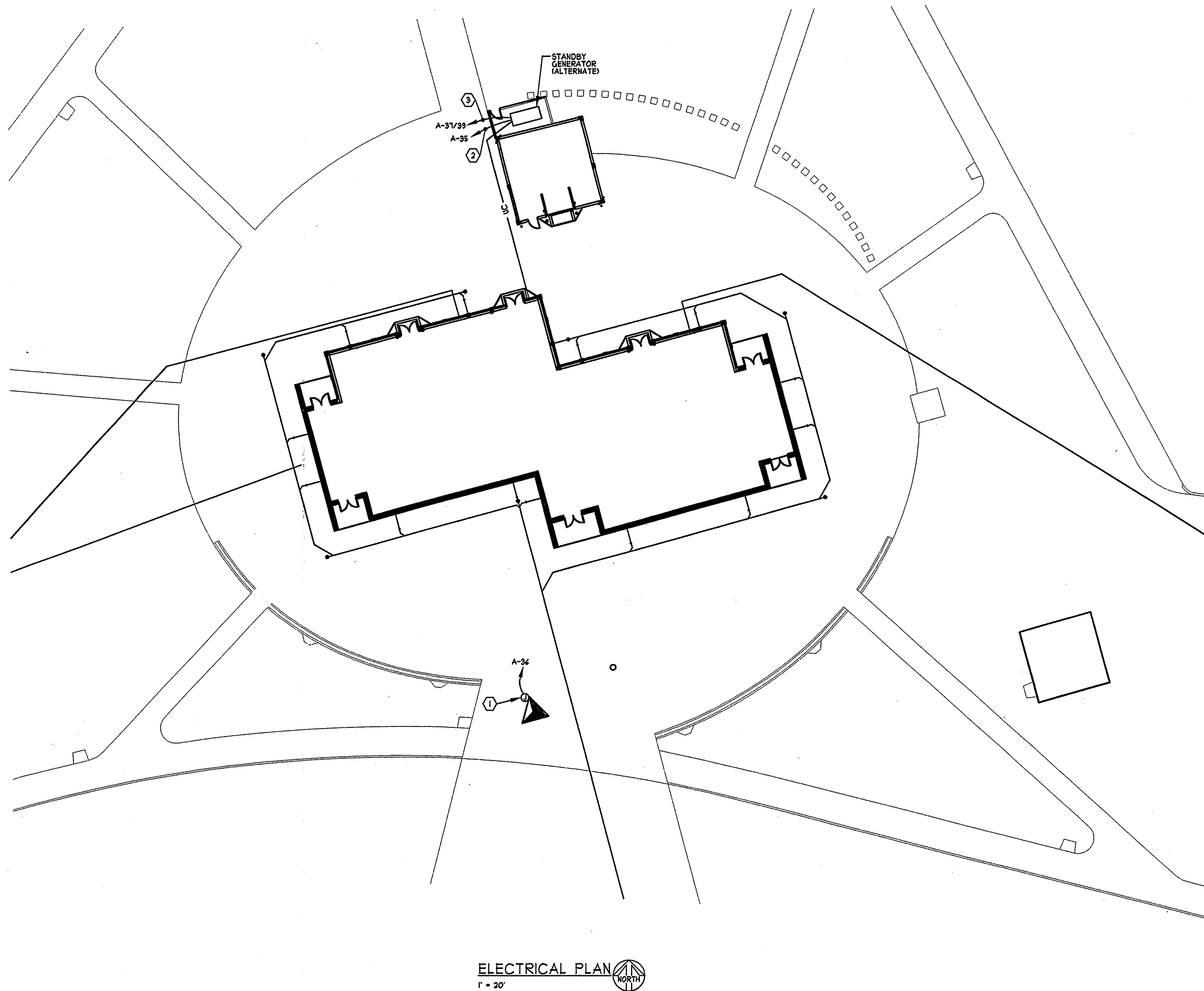
STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLOT DATE: AUGUST 2004
DATE: AUGUST 2004
NES-1

NORTH SIDE (WEST BOUND) SITE PLAN
SCALE: 1" = 50'

BID/CONSTRUCTION SET

C:\D:\STATION\NEW DRAWING\LANDSCAPE\PROJECT AREA\LANDSCAPE\DESIGN\DESIGN.dwg DATE: JUL 20, 2004 TIME: 11:45 AM



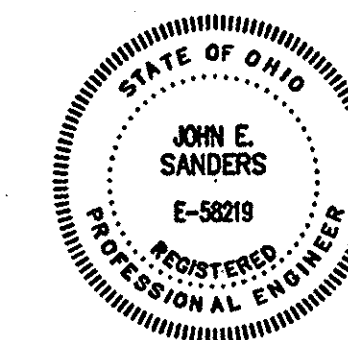
CODED NOTES

1. JUNCTION BOX FOR KIOSK POWER. COORDINATE INSTALLATION WITH GENERAL CONTRACTOR.
2. 2 #12, 1 #10 GROUND IN 1" CONDUIT FOR GENERATOR BATTERY CHARGERS AND CONTROL CIRCUIT.
3. 2 #10, 1 #10 GROUND IN 1" CONDUIT FOR GENERATOR BLOCK HEATER 4000W, 208V, 1Ø.

CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL/ELECTRICAL/STRUCTURAL
S.R.A. INC.
SITE/CIVIL
KZF DESIGN, INC.
LANDSCAPE ARCHITECTURE
KINZELMAN KLINE

REVISIONS

NO.	DATE	DESCRIPTION



FOR:
OHIO DEPT. OF TRANSPORTATION

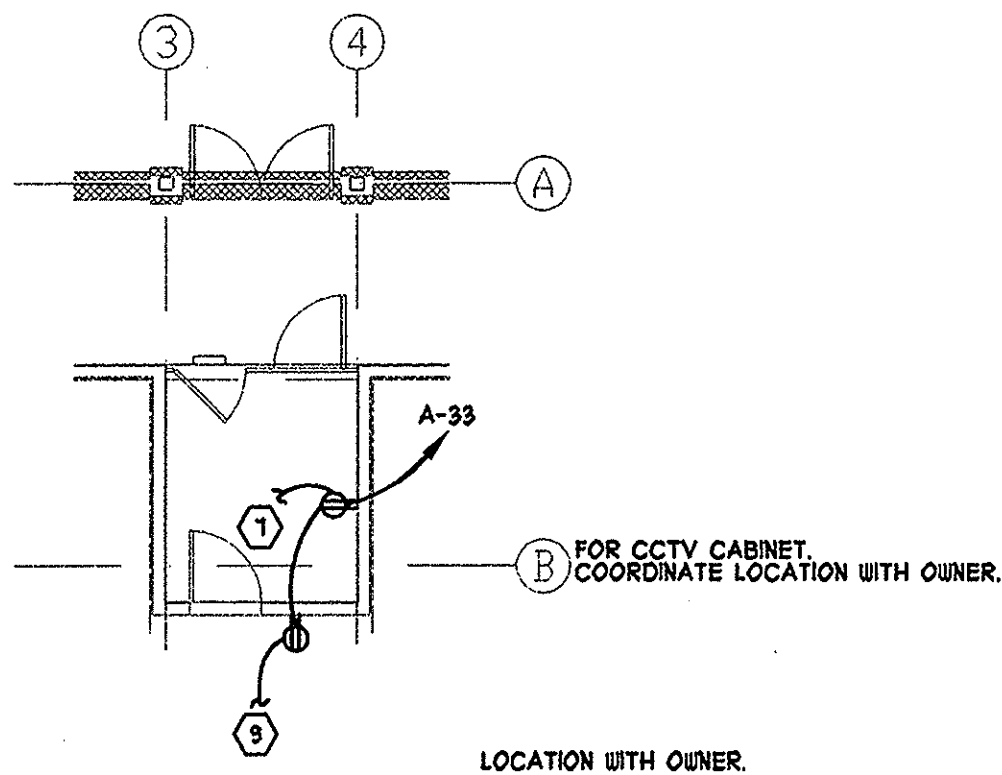
DRAWING DESCRIPTION:
ELECTRICAL SITE PLAN - NORTH SITE (WEST BOUND)

PROJECT NO. 770-2003-074
I/70 LICKING COUNTY REST AREA

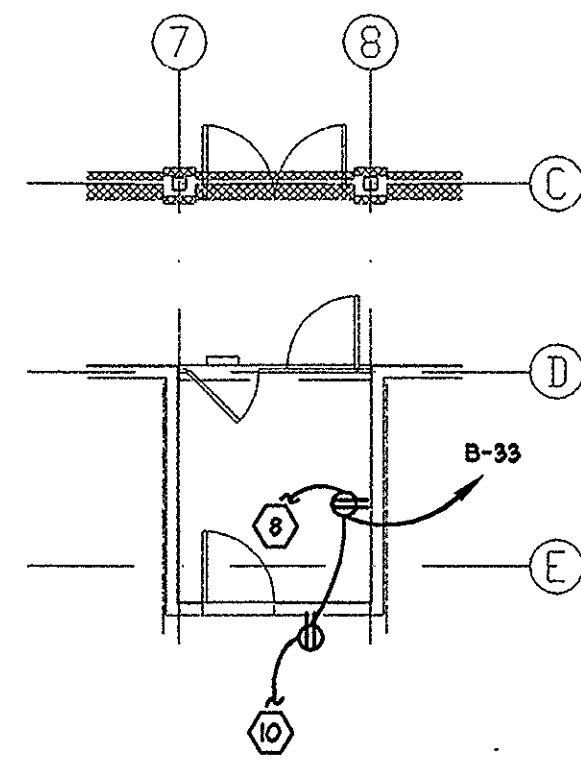
STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLOT DATE	DATE	NES-2
AUGUST 2004	AUGUST 2004	

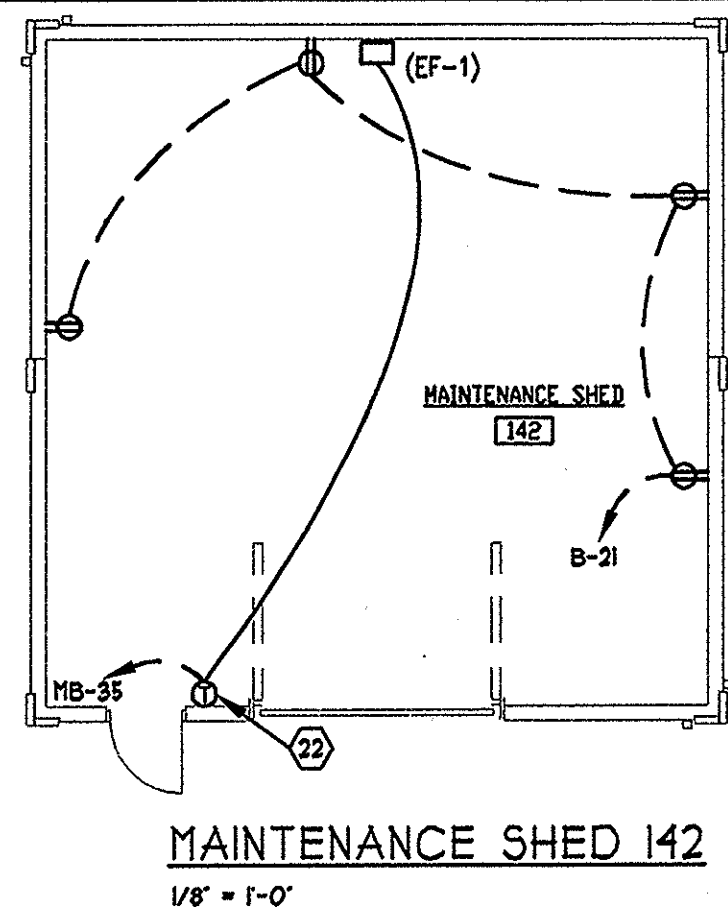
BID/CONSTRUCTION SET



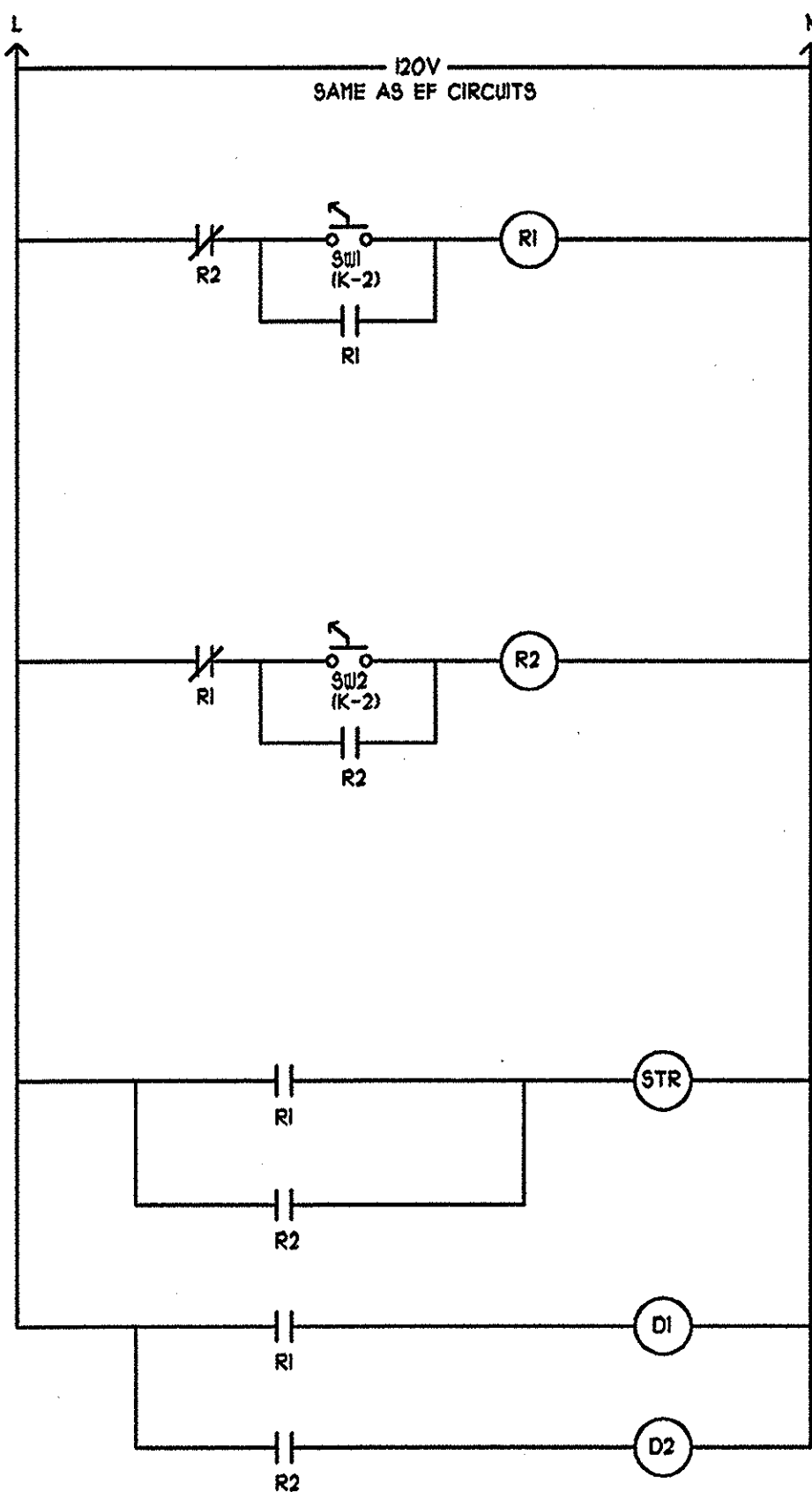
MECHANICAL MEZZANINE MO1
1/8" = 1'-0"



MECHANICAL MEZZANINE MO2
1/8" = 1'-0"

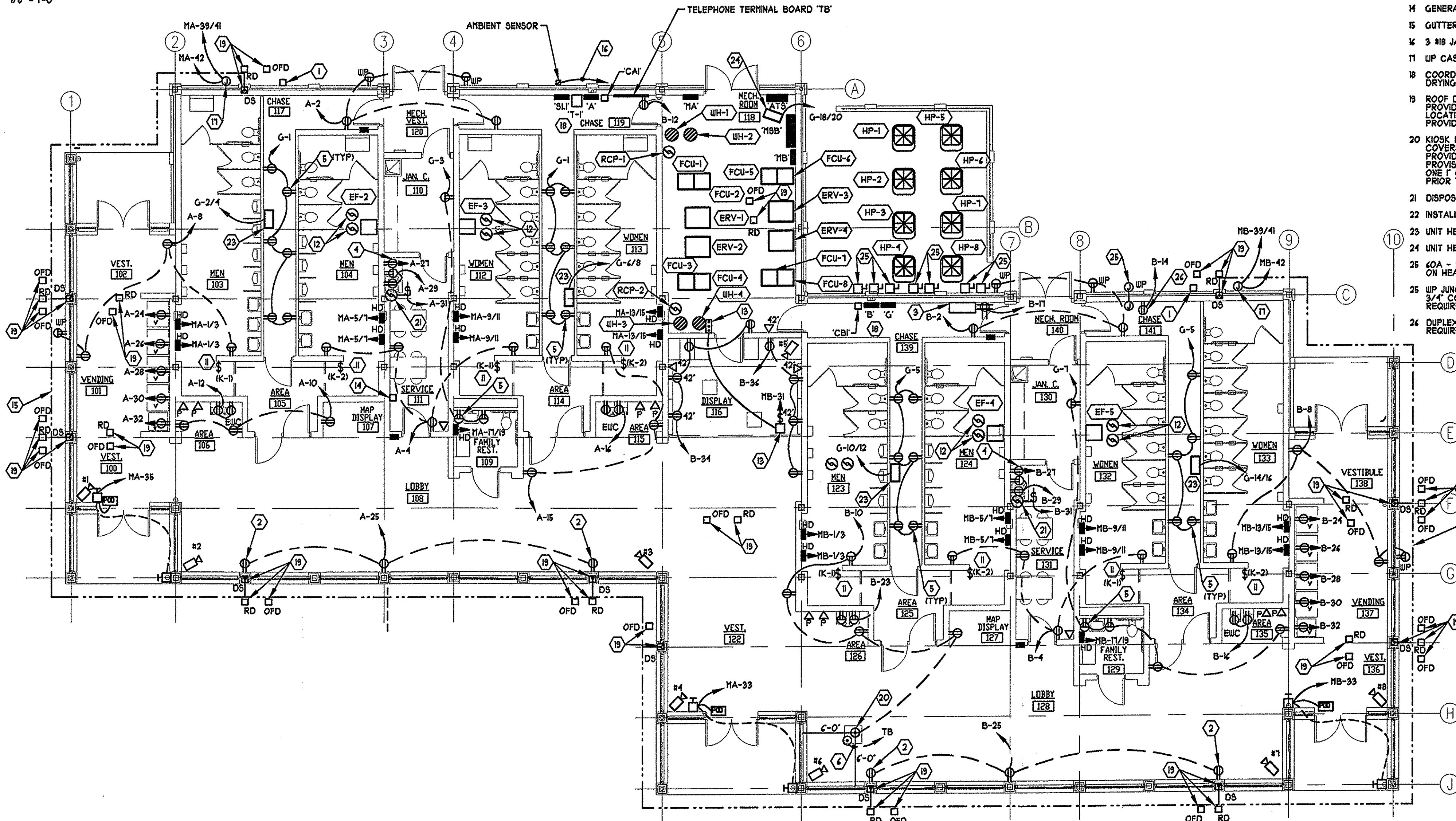


MAINTENANCE SHED 142
1/8" = 1'-0"



RESTROOM CLEANING EXHAUST FAN CONTROL DIAGRAM
SCALE: NTS

- NOTES**
- SUI: MOMENTARY KEY SWITCH, ALLEN-BRADLEY 2 POSITION CYLINDER LOCK OPERATOR #800T-M8B OR APPROVED EQUAL MOUNTED IN FLUSH MOUNTED ENCLOSURE WITH STAINLESS STEEL FACE PLATE WITH LEGEND PLATE "FAN".
- SUI2: MOMENTARY KEY SWITCH, ALLEN-BRADLEY 2 POSITION CYLINDER LOCK OPERATOR #800T-M8B OR APPROVED EQUAL MOUNTED IN FLUSH MOUNTED ENCLOSURE WITH STAINLESS STEEL FACE PLATE WITH LEGEND PLATE "FAN".
- R1: ADJUSTABLE 0-30 MINUTE TIMING RELAY WITH MOMENTARY START INPUT AND MOMENTARY RESET INPUT ALLEN-BRADLEY # 100-HRS2TAN1 OR APPROVED EQUAL MOUNTED IN NEMA 1 ENCLOSURE ADJACENT TO FAN STARTER.
- R2: ADJUSTABLE 0-30 MINUTE TIMING RELAY WITH MOMENTARY START INPUT AND MOMENTARY RESET INPUT ALLEN-BRADLEY # 100-HRS2TAN1 OR APPROVED EQUAL MOUNTED IN NEMA 1 ENCLOSURE ADJACENT TO FAN STARTER.
- STR: STARTER FOR FAN UNIT
- D1: MOTORIZED DAMPER UNIT FOR FAN UNIT.
- D2: MOTORIZED DAMPER UNIT FOR FAN UNIT.



POWER PLAN
1/8" = 1'-0"

CODED NOTES

- DRAIN AND OVERFLOW DRAIN AMBIENT THERMOSTAT.
- LOCATE FLUSH MOUNTED BOX WITH SINGLE GANG DUPLEX RECEPTACLE COVER AT 18" AFF CENTERED ON COLUMN.
- FUTURE CCTV CABINET. SEE DETAIL B SHEET NE-5.
- LOCATE RECEPTACLE FOR BUILT-IN MICROWAVE OVEN ABOVE KITCHENETTE COUNTER. RECEPTACLE FOR REFRIGERATOR BELOW KITCHENETTE COUNTER. AND GFI RECEPTACLE ABOVE KITCHENETTE COUNTER. COORDINATE LOCATIONS WITH APPROVED KITCHENETTE SHOP DRAWINGS.
- PROVIDE JUNCTION BOXES AND/OR RECEPTACLES AND ELECTRICAL WORK FOR AUTOMATIC SOLENOID OPERATED VALVES. PROVIDE ELECTRICAL WORK PER MANUFACTURER'S INSTRUCTIONS. CONCEALED LOW VOLTAGE WIRING SHALL BE INSTALLED IN RACEWAYS. EXPOSED LOW VOLTAGE WIRING SHALL BE INSTALLED IN SPLIT PLASTIC TUBING FASTENED AT 1'-0" INTERVALS. REFER TO DETAILS 'A', 'B', 'C', AND 'D' ON DRAWING NE-2.
- 1" CONDUIT WITH PULL WIRE TO TELEPHONE BOARD.
- TO LIGHT FIXTURE IN MECHANICAL MEZZANINE MO1.
- TO LIGHT FIXTURE IN MECHANICAL MEZZANINE MO2.
- TO ATTIC LIGHT SWITCH IN MECHANICAL MEZZANINE MO1.
- TO ATTIC LIGHT SWITCH IN MECHANICAL MEZZANINE MO2.
- KEY OPERATED SWITCH FOR CLEANING EXHAUST FAN. REFER TO DETAIL 'A' THIS DRAWING.
- CONNECT ELECTRICAL DAMPER OPERATOR FURNISHED AND INSTALLED BY OTHERS. PROVIDE TOGGLE SWITCH AS DISCONNECT AT UNIT. REFER TO DETAIL 'A' THIS DRAWING.
- INSTALL AND CONNECT OVERHEAD GRILLE OPERATOR CONTROL STATION FURNISHED BY OTHERS.
- GENERATOR ANNUNCIATOR PANEL.
- GUTTER FREEZE PROTECTION.
- 3 #18 JACKETED CABLE IN 3/4" CONDUIT TO SNOW MELT CONTROLLER.
- UP CAST JUNCTION BOX FOR POWER CONNECTION.
- COORDINATE FINAL LOCATION OF ELECTRICAL EQUIPMENT WITH RESTROOM FLOOR DRYING DUCTWORK MAINTAIN NEC REQUIRED CLEARANCES.
- ROOF DRAIN PIPING AND OVERFLOW ROOF DRAIN PIPING SHALL BE PROVIDED FREEZE PROTECTION. PROVIDE HEAT TAPE AT EACH LOCATION. CONNECT TO MB-42. PIPE INSULATION SHALL BE PROVIDED BY OTHERS. REFER TO DRAWING PE-1 FOR EXTENT OF PIPING.
- KIOSK PROVIDED BY OTHERS. PROVIDE TWO FLUSH FLOOR BOXES WITH BRASS COVERS WITH SCREW TYPE ROUND REMOVABLE INSERTS TO ACCESS DEVICES. PROVIDE ONE BOX WITH DUPLEX RECEPTACLE. PROVIDE OTHER BOX WITH PROVISION FOR ONE TELEPHONE ONE DATA AND ONE CABLE JACK. PROVIDE ONE 1" CONDUIT TO TERMINAL BOARD 'TB'. VERIFY LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- DISPOSAL BY OTHERS.
- INSTALL AND CONNECT THERMOSTAT FURNISHED BY OTHERS.
- UNIT HEATER (BY MECHANICAL CONTRACTOR) 208V, 1.5 3.1 KW.
- UNIT HEATER (BY MECHANICAL CONTRACTOR) 208V, 1.5 5 KW.
- 40A - 3P. NF. UP DISCONNECT FOR HEAT PUMP (TYPICAL OF 8) MAY BE MOUNTED ON HEAT PUMP IF ACCEPTABLE TO HEAT PUMP MANUFACTURER.
- UP JUNCTION BOX AT GRADE FOR IRRIGATION SYSTEM CONTROL WIRING. RUN 3/4" CONDUIT WITH PULL WIRE TO IRRIGATION CONTROL PANEL. COORDINATE REQUIREMENTS AND LOCATION WITH IRRIGATION CONTRACTOR.
- DUPLEX RECEPTACLE FOR IRRIGATION CONTROL PANEL. COORDINATE REQUIREMENTS AND LOCATION WITH IRRIGATION CONTRACTOR.

1/8" = 1'-0"
0 4' 8' 16' 24'

CONSULTING ARCHITECTS & ENGINEERS

ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL/ELECTRICAL/STRUCTURAL
S.R.A. INC.
SITE/CIVIL:
KZE DESIGN, INC.
LANDSCAPE ARCHITECTURE:
KINZELMAN KLINE

REVISIONS

NO.	DATE	DESCRIPTION

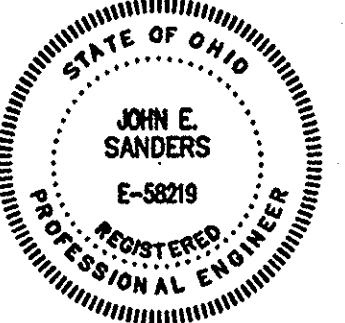
FOR:
OHIO DEPT. OF TRANSPORTATION

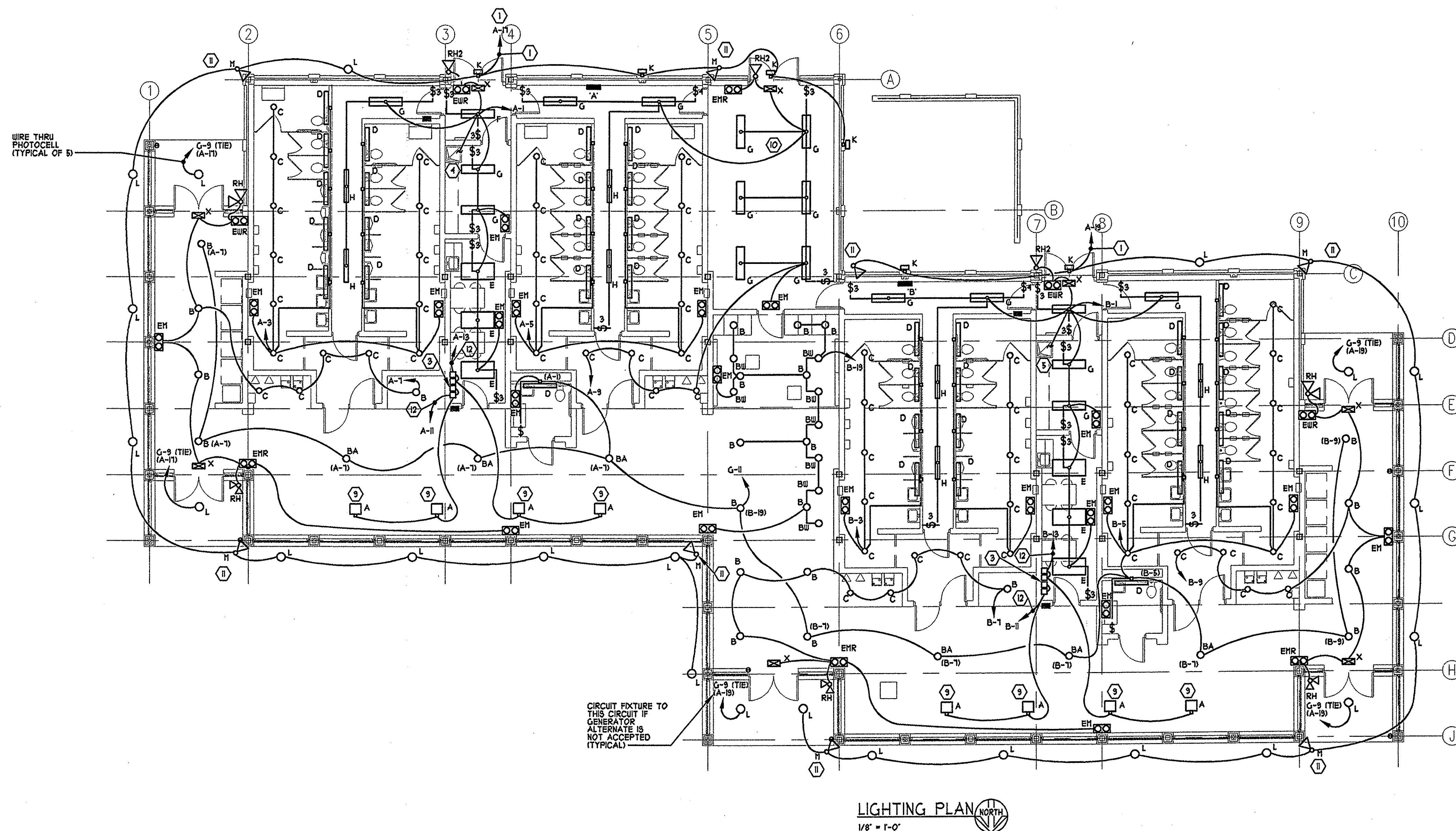
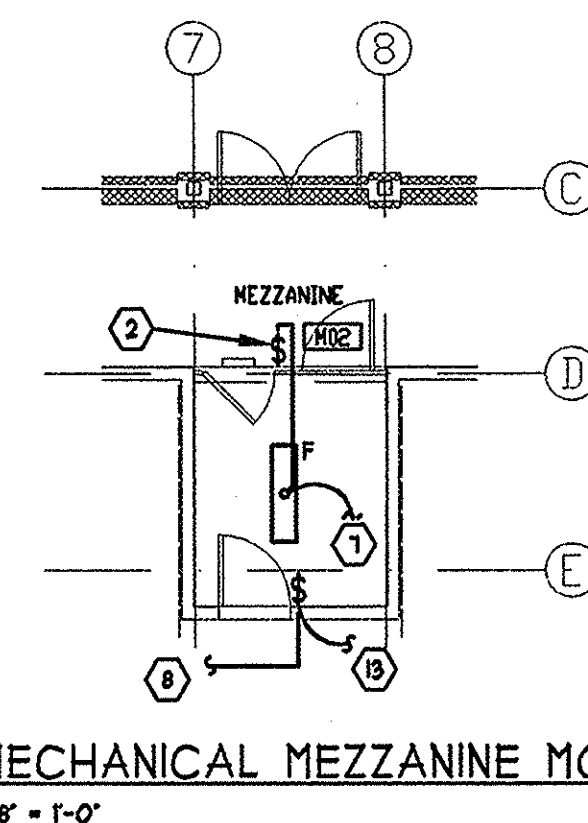
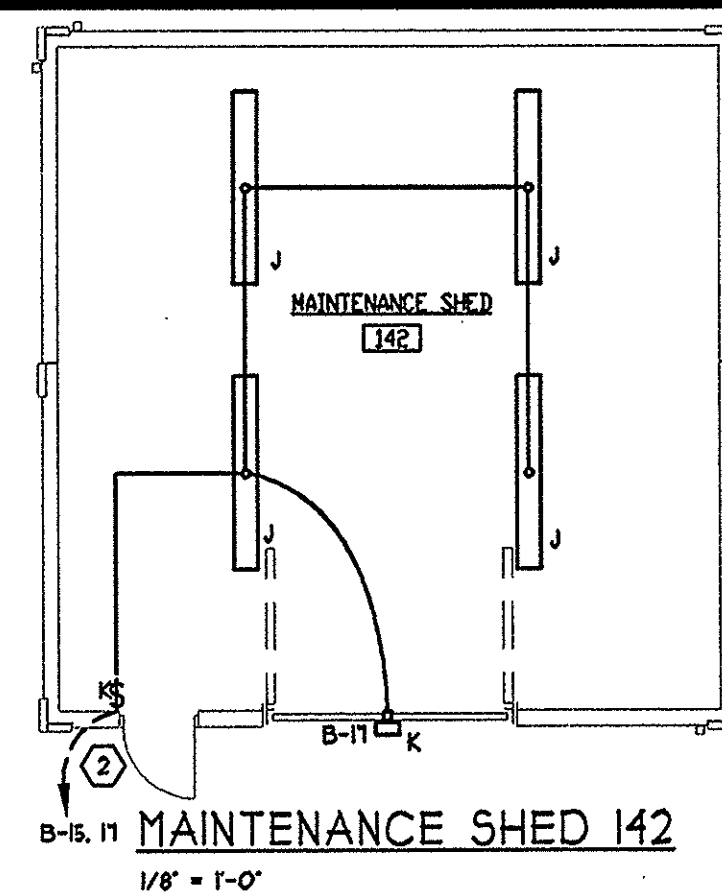
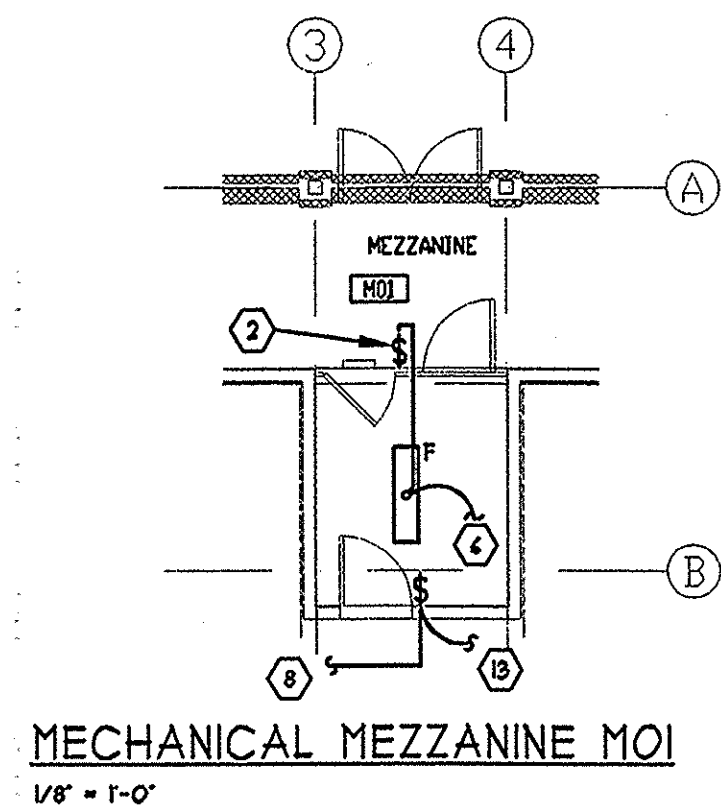
DRAWING DESCRIPTION:
POWER PLAN - NORTH SITE (WEST BOUND)

PROJECT NO. 770-2003-074
1/70 LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLOT DATE: AUGUST 2004
DATE: AUGUST 2004
NE-1





CODED NOTES

- 1 CA-1 CONTROLLED.
- 2 SWITCH AT BOTTOM OF LADDER.
- 3 REMOTE BALLAST FOR THE TYPE 'A' FIXTURES MOUNTED IN 30" X 30" X 10" NEHA JUNCTION BOX (VERIFY EXACT SIZE REQUIRED WITH BALLAST MANUFACTURER PRIOR TO PURCHASE). PROVIDE WITH MOUNTED PLATE AND 3 STANDARD VENTILATION GRILLES. MOUNT BALLASTS WITH 1" AIR GAP BETWEEN BALLAST AND MOUNTING PLATE. PROVIDE VIBRATION ISOLATION MOUNTING TO INSURE MINIMUM NOISE.
- 4 TO LIGHT FIXTURE IN MECHANICAL MEZZANINE MO1.
- 5 TO LIGHT FIXTURE IN MECHANICAL MEZZANINE MO2.
- 6 FROM RECEPTACLE IN MECHANICAL MEZZANINE MO1.
- 7 FROM RECEPTACLE IN MECHANICAL MEZZANINE MO2.
- 8 PROVIDE FOUR TYPE 'U' FIXTURES AND ONE TYPE 'EH5' FIXTURE IN ATTIC LOCATED AS REQUIRED.
- 9 FIXTURE SPACING IS DETERMINED BY MANUFACTURER. PRIOR TO ROUGH-IN SUBMIT PROPOSED SPACING DIMENSIONS AND PHOTOMETRIC DATA FOR APPROVAL. ROUGH-IN ONLY AFTER WRITTEN APPROVAL IS RECEIVED.
- 10 COORDINATE FIXTURE LOCATION WITH EQUIPMENT INSTALLATION.
- 11 REFER TO ROOF PLAN DRAWING A-12 FOR LOCATION OF TYPE 'H' FIXTURE. FIXTURE PROVIDED AS ELECTRICAL WORK. MOUNTING STRUCTURE PROVIDED AS GENERAL WORK.
- 12 WIRE THROUGH DAY-LIGHT SENSOR LOCATION PER MANUFACTURER'S RECOMMENDATION. PROVIDE SWITCHPACK AND/OR CONTROLLER (MOUNT IN BALLAST JUNCTION BOX. SEE CODED NOTE 11 AS RECOMMENDED BY MANUFACTURER. NOVITAS 01-PCL 13-091 AND 02-PCC OR EQUIVALENT BY LITTON OR WATTSSTOPPER.
- 13 FROM RECEPTACLE IN ATTIC. REFER TO DRAWING SE-1.

1/8" = 1'-0"

CONSULTING ARCHITECTS & ENGINEERS
 ARCHITECT:
 OFFICE OF THE STATE ARCHITECT
 MECHANICAL/ELECTRICAL/STRUCTURAL
 S.R.A. INC.
 SITE/CIVIL
 KZF DESIGN, INC.
 LANDSCAPE ARCHITECTURE
 KINZELMAN KLINE

REVISIONS

NO.	DATE	DESCRIPTION



FOR:
 OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
 LIGHTING PLAN - NORTH SITE (WEST BOUND)

PROJECT NO. 770-2003-074
 I/70 LICKING COUNTY REST AREA

STATE OF OHIO
 DEPARTMENT OF ADMINISTRATIVE SERVICES
 GENERAL SERVICES DIVISION
 PREPARED BY
 GENERAL SERVICES DIVISION
 OFFICE OF THE STATE ARCHITECT

PLOT DATE	DATE	
AUGUST 2004	AUGUST 2004	NE-2

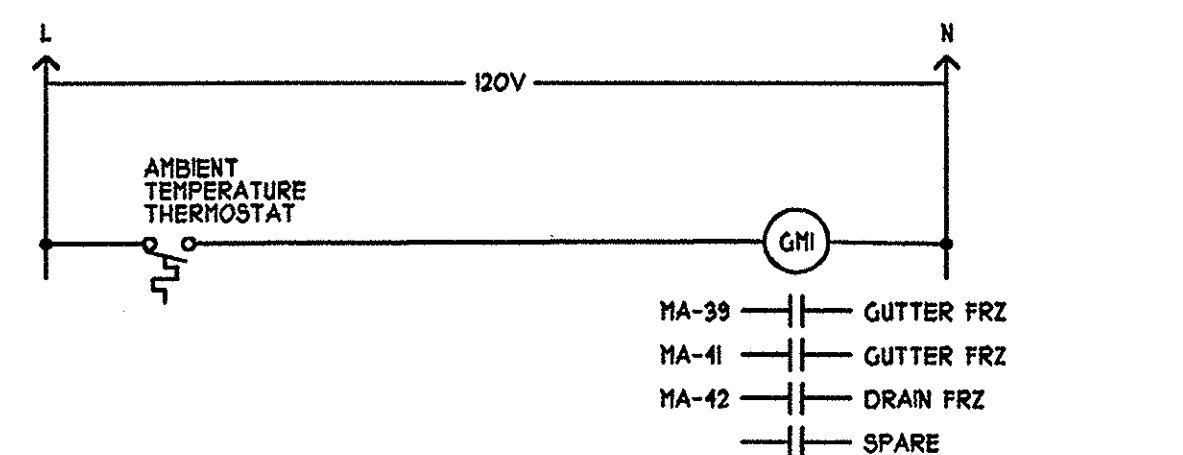
GENERAL NOTES

- 1 LIGHT FIXTURES SHALL BE INSTALLED EQUALLY SPACED, SYMMETRICALLY AND CENTERED WITHIN RESPECTIVE SPACES.
- 2 COORDINATE LOCATION OF LIGHT FIXTURES WITH ARCHITECTURAL DRAWINGS.
- 3 LIGHT FIXTURES SHALL BE INSTALLED THE SAME IN SIMILAR PLACES.



NOTES

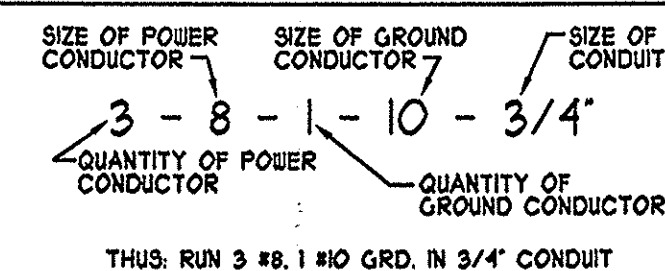
1. HAND-OFF-AUTO SELECTOR SWITCH, THREE POSITION MAINTAINED, TWO POLE STANDARD BLACK KNOB, H-O-A LEGEND PLATE, PROVIDE SELECTOR SWITCH MOUNTED IN A NEHA I ENCLOSURE ADJACENT TO CONTACTOR 'CA-I'.
2. CONTACTOR 'CA-I', 120V ELECTRICALLY HELD, 30A-4P, NEHA I ENCLOSURE.
3. PHOTO-ELECTRIC CONTROL 'PEC-I', TURN ON AND LOCK 120V PHOTO-ELECTRIC CONTROL WITH LOCKING TYPE RECEPTACLE MOUNTED TO END OF CONDUIT.
4. 'CA-I' CONTROLS CIRCUITS A-1 AND A-19.
5. 'CB-I' CONTROLS PANEL 'SL'.
6. CONTACTOR 'CAN', 120V COIL, 400V CONTACTS, ELECTRICALLY HELD 100A-4P, NEHA I ENCLOSURE (CAN BE SUPPLIED IN PANEL AT CONTRACTORS OPTION).



GUTTER/DRAIN MELT CONTROL DIAGRAM-PANEL MA
N.T.S. (PANEL MB SIMILAR)

POWER DISTRIBUTION FEEDER SCHEDULE						
NO.	FROM	TO	OCF	SETS	CONDUCTORS/ACEWAY	
101	SERVICE TRANSF	'HSB'	1200	3	4-400 (PARALLEL)-4"	
201	'HSB'	PANEL 'HA'	400	1	4-500-1-3-3 1/2"	
202	'HSB'	PANEL 'A'	200	1	4-3/0-1-2-2"	
203	'HSB'	ATS	100	1	4-3/0-1-10-1 1/2"	
204	'ATS'	GEN	100	1	4-3/0-1-10-2"	
205	'HSB'	PANEL 'HB'	400	1	4-500-1-3-3 1/2"	
206	'HSB'	PANEL 'B'	200	1	4-3/0-1-2-2"	
207	'ATS'	PANEL 'G'	100	1	4-3/0-1-10-1 1/2"	
208				1		
209	'HSB'	TVSS'	100	1	4-2-1-2-1 1/2"	
210				1		
211				1		
301	'HSB'	XFMR 'T-I'	200	1	3-3/0-1-4-2"	
302	XFMR 'T-I'	PANEL 'SL'	100	1	4-1-1-8-2"	
303	PANEL SL	TVSS'	30	1	4-10-1-10-3/4"	

POWER DISTRIBUTION FEEDER SCHEDULE KEY



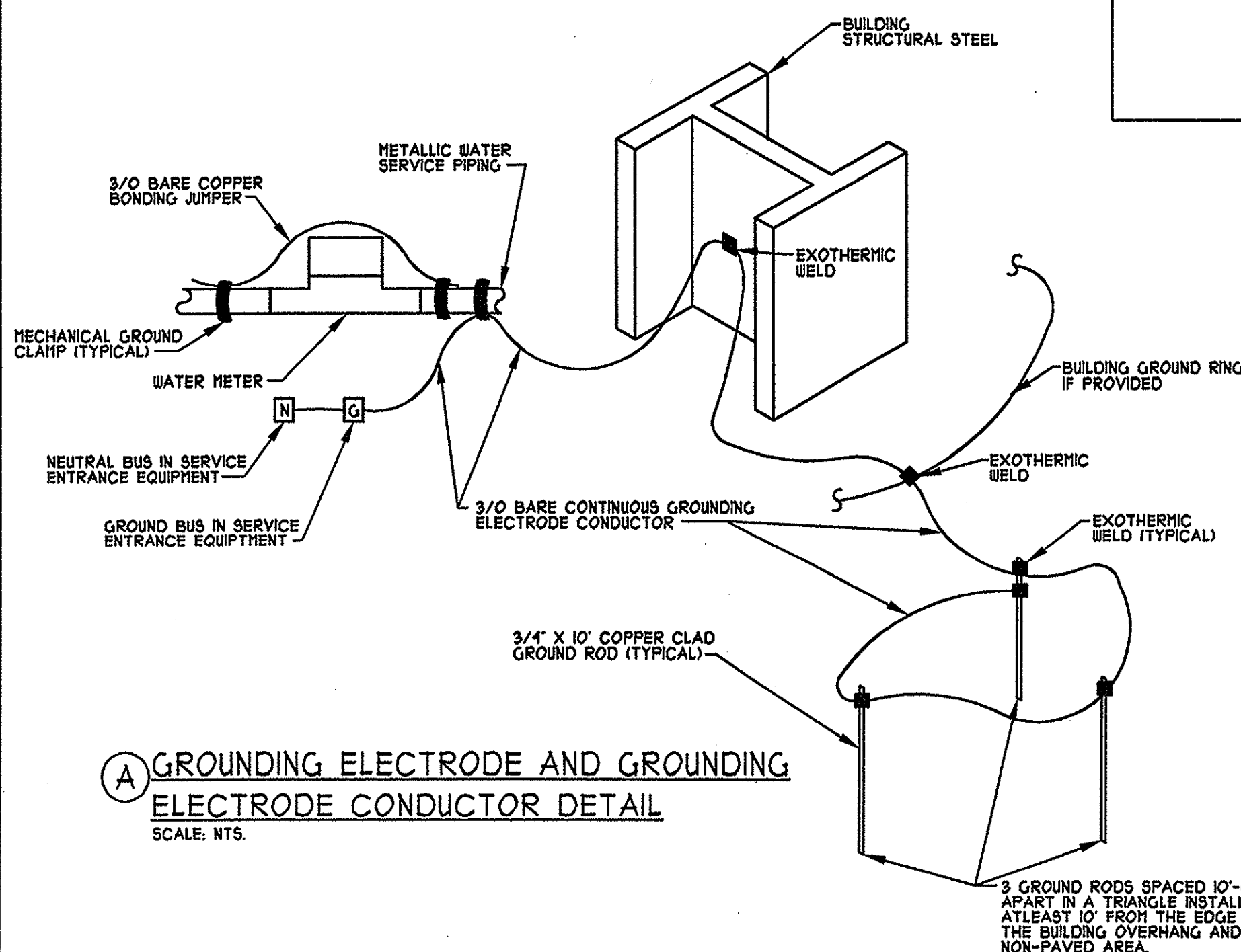
NOTES:

- I. MSB: 45000 AIC FULLY RATED, COPPER BUS WITH SILVER PLATED CONNECTIONS. SERVICE ENTRANCE LABEL.

MECHANICAL EQUIPMENT WIRING SCHEDULE										
MARK	NAME	VOLTS	PHASE	AMPS	KVA	CIRCUIT NO.	ODP	CONDUCTORS/RACEWAY	NOTES	
EF-1	EXHAUST FAN	120	1	9.8	1.2	MB-35	20	2-12-12-3/4"	13	
EF-2	EXHAUST FAN	120	1	5.8	.1	MA-31	20	2-12-12-3/4"	14	
EF-3	EXHAUST FAN	120	1	5.8	.1	MA-31	20	2-12-12-3/4"	1	
EF-4	EXHAUST FAN	120	1	5.8	.1	MA-31	20	2-12-12-3/4"	2	
EF-5	EXHAUST FAN	120	1	5.8	.1	MB-31	20	2-12-12-3/4"	14	
ERV-1	ENERGY RECOVERY VENT	208	1	33.3	4.925	MA-25/23	45	2-6-10-3/4"	1	
ERV-2	ENERGY RECOVERY VENT	208	1	33.3	4.925	MA-25/21	45	2-6-10-3/4"	1	
ERV-3	ENERGY RECOVERY VENT	208	1	33.3	4.925	MB-2/23	45	2-6-10-3/4"	1	
ERV-4	ENERGY RECOVERY VENT	208	1	33.3	4.925	MB-25/21	45	2-6-10-3/4"	1	
FCU-1	FAN COIL UNIT	208	1	4.5	8.1	MA-2/4	60	2-4-10-1"	2	
FCU-2	FAN COIL UNIT	208	1	4.5	8.1	MA-4/8	60	2-4-10-1"	2	
FCU-3	FAN COIL UNIT	208	1	4.5	8.1	MA-10/12	60	2-4-10-1"	2	
FCU-4	FAN COIL UNIT	208	1	4.5	8.1	MA-14/16	60	2-4-10-1"	2	
FCU-5	FAN COIL UNIT	208	1	4.5	8.1	MB-2/4	60	2-4-10-1"	2	
FCU-6	FAN COIL UNIT	208	1	4.5	8.1	MB-6/8	60	2-4-10-1"	2	
FCU-1	FAN COIL UNIT	208	1	4.5	8.1	MB-10/12	60	2-4-10-1"	2	
FCU-8	FAN COIL UNIT	208	1	4.5	8.1	MB-14/16	60	2-4-10-1"	2	
HP-1	HEAT PUMP	208	1	32.8	6.82	MA-18/20	50	2-6-10-3/4"	2	
HP-2	HEAT PUMP	208	1	32.8	6.82	MA-22/24	50	2-6-10-3/4"	2	
HP-3	HEAT PUMP	208	1	32.8	6.82	MA-26/28	50	2-6-10-3/4"	2	
HP-4	HEAT PUMP	208	1	32.8	6.82	MA-30/32	50	2-6-10-3/4"	2	
HP-5	HEAT PUMP	208	1	32.8	6.82	MB-18/20	50	2-6-10-3/4"	2	
HP-6	HEAT PUMP	208	1	32.8	6.82	MB-22/24	50	2-6-10-3/4"	2	
HP-7	HEAT PUMP	208	1	32.8	6.82	MB-26/28	50	2-6-10-3/4"	2	
HP-8	HEAT PUMP	208	1	32.8	6.82	MB-30/32	50	2-6-10-3/4"	2	
WH-1	WATER HEATER	208	1	24.5	5.5	MA-34/36	40	2-8-10-3/4"	2	
WH-2	WATER HEATER	208	1	24.5	5.5	MA-38/40	40	2-8-10-3/4"	2	
WH-3	WATER HEATER	208	1	24.5	5.5	MA-42/38	40	2-8-10-3/4"	2	
WH-4	WATER HEATER	208	1	24.5	5.5	MB-38/40	40	2-8-10-3/4"	2	
RCP-1	CIRC PUMP	120	1	0.45	0.055	A-18	20	2-12-12-3/4"	4	
RCP-2	CIRC PUMP	120	1	0.45	0.055	A-18	20	2-12-12-3/4"	4	

NOTES:

1. UNIT DISCONNECT PROVIDED WITH EQUIPMENT. ELECTRICAL CONTRACTOR SHALL MAKE CONNECTION TO DISCONNECT.
2. PROVIDE UNIT DISCONNECT AT EQUIPMENT. ELECTRICAL CONTRACTOR SHALL PROVIDE CONNECTION TO DISCONNECT AND PROVIDE FLEXIBLE CONDUIT AND WIRING CONNECTION TO EQUIPMENT.
3. PROVIDE MOTOR STARTER WITH THERMAL OVERLOADS INTERCONNECTED WITH THERMOSTAT FURNISHED BY OTHERS. MOUNT STARTER IN MAINTENANCE BUILDING.
4. PROVIDE MOTOR STARTER WITH THERMAL OVERLOAD. MOUNT STARTER IN MECHANICAL ROOM.



BUILDING LOAD CALCULATION					
	MOTORS	RECEPTILES	LIGHTING	HEATING	TOT. KVA
PANEL MA	15184	0	0	80192	93300
PANEL MB	15313	0	0	80182	93310
PANEL A	1231	33790	10284	0	0
PANEL B	0	21353	7842	0	0
					0
					0
PANEL G	0	2240	1833	19800	0
PANEL SL	-	-	44200	-	-
TOTAL CONNECTED	31734	41389	64181	180184	64260
DEMAND FACTORS	6326	1st 10k + 50	1.00	0.80	1.00
TOTAL DEMAND	38042	28495	64181	144148	64260

* COOLING LOAD NOT USED FOR TOTALS.
HEATING LOAD IS GREATER.

TOTAL CONNECTED LOAD 869750 / 360 = 1082.63 AMPS
TOTAL DEMAND LOAD = 34334 / 360 = 948.18 AMPS

1200 AMP SERVICE

1200 AMP SERVICE

NO SCALE

CONSULTING ARCHITECTS & ENGINEERS

ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL/ELECTRICAL/STRUCTURAL
S.R.A. INC.
SITE/CIVIL
KZF DESIGN, INC.
LANDSCAPE ARCHITECTURE:
KINZELMAN KLINE

REVISIONS

[illegible]

FOR:

OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:

ELECTRICAL DIAGRAMS & SCHEDULES - NORTH SITE (WEST BOUND)

PROJECT NO. 770-2003-074

1/70 LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION

PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLOT DATE

AUGUST 2004

DATE _____

AUGUST 2004

NE-3

BID/CONSTRUCTION SET

SERVICE:
 PHASE TO PHASE VOLTAGE: 208
 PHASE TO GROUND VOLTAGE: 120
 WIRE: 4
 PANEL MAINS: 400A MAIN LUGS ONLY
 FEED: BOTTOM
 MOUNTING: SURFACE

AIC: 22,000
H INDICATES 'HACR' TYPE BREAKER
L INDICATES LOCKED ON BREAKER
G INDICATES GFI CIRCUIT BREAKER
BKR./SIZE INDICATES AMPS/POLE(S)

LOAD WATTS	WIRE SIZE	LOAD DESCRIPTION	BKR SIZE	CIRCUIT NUMBER	BKR SIZE	LOAD DESCRIPTION	WIRE SIZE	LOAD WATT
2300	#10	HAND DRYERS MEN	G1	30/2	1	H FCU-1	#4	4314
2300	#10			3	4		#4	4314
2300	#10	HAND DRYERS MEN	G1	30/2	5	H FCU-2	#4	4314
2300	#10			1	8		#4	4314
2300	#10	HAND DRYERS WOMEN	G1	30/2	9	H FCU-3	#4	4314
2300	#10			1	12		#4	4314
2300	#10	HAND DRYERS WOMEN	G1	30/2	13	H FCU-4	#4	4314
2300	#10			15	16		#4	4314
150	#10	HAND DRYERS FEMALE	G1	30/2	11	H HP-1	#6	3410
150	#10			19	20		#6	3410
3443	#6	ERV-1	H	45/2	21	H HP-2	#6	3410
3443	#6			23	24		#6	3410
3443	#6	ERV-2	H	45/2	25	H HP-3	#6	3410
3443	#6			27	28		#6	3410
O	-	SPARE		20/1	29	H HP-4	#6	3410
O	-	SPARE		20/1	31		#6	3410
1000	#12	POWER OPER. DOOR		20/1	33	WH-1	#8	2180
1000	#12	POWER OPER. DOOR		20/1	35		#8	2180
3314	#12	GF-2		20/1	37	WH-2	#8	2180
140	#10	ENTER FRZ	G2	50/2	39		G2	450
140	#10			41	42	ROOF DRAIN FRZ	G2	412

HVAC WATTS
 MOTOR WATTS
 RECEPTACLE WATTS
 MISC. WATTS
 WATER HEATER WATTS
 TOTAL CONNECTED WATTS
 TOTAL CONNECTED AMPS
 (BALANCED)

G1: 5 MA TRIP LEVEL G2: 30 MA TRIP LEVEL	} COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER

SERVICE:
 PHASE TO PHASE VOLTAGE: 208
 PHASE TO GROUND VOLTAGE: 120
 WIRE: 4
 PANEL MAINS: 400A MAIN LUGS ONLY
 FEED: BOTTOM
 MOUNTING: SURFACE

AIC: 22.000
H INDICATES 'HACR' TYPE BREAKER
L INDICATES LOCKED ON BREAKER
G INDICATES GFI CIRCUIT BREAKER
BKR./SIZE INDICATES AMPS/POLE(S)

LOAD WATTS	WIRE SIZE	LOAD DESCRIPTION	BKR SIZE	CIRCUIT NUMBER	BKR SIZE	LOAD DESCRIPTION	WIRE SIZE	LOAD WATTS		
2300	#10	HAND DRYERS MEN	G1	30/2	1	2	60/2	H FCU-5	#4	4314
2300	#10			3	1	4			#4	4314
2300	#10	HAND DRYERS MEN	G1	30/2	5	6	60/2	H FCU-6	#4	4314
2300	#10			1	1	8			#4	4314
2300	#10	HAND DRYERS WOMEN	G1	30/2	9	10	60/2	H FCU-1	#4	4314
2300	#10			13	1	12			#4	4314
2300	#10	HAND DRYERS WOMEN	G1	30/2	13	14	60/2	H FCU-8	#4	4314
2300	#10			15	1	12			#4	4314
150	#10	HAND DRYERS FAMILY	G1	30/2	17	18	50/2	H HP-5	#6	3410
150	#10			18	1	20			#6	3410
3443	#6	ERV-3	H	40/2	21	22	50/2	H HP-6	#6	3410
3443	#6			23	1	24			#6	3410
3443	#6	ERV-4	H	40/2	25	26	50/2	H HP-1	#6	3410
3443	#6			27	1	24			#6	3410
900	#12	SNOW MELT CONTROLS		20/1	28	30	50/2	H HP-8	#6	3410
1200	#12	OVERHEAD GRILLE		20/1	31	32			#6	3410
1000	#12	POWER OPER. DOOR		20/1	33	34	40/2	WH-3	#8	2150
121	#12	EF-1		20/1	35	36			#8	2150
1334	#12	EF-4; 5		20/1	37	38			#8	2150
140	#10	GUTTER FRZ	G2	30/2	39	40	70/1	WH-4	#8	2150
140	#10			31	1	40			#8	2150
								BOF DRAIN P7	G3	#6

HVAC WATTS
 MOTOR WATTS
 RECEPTACLE WATTS
 MISC. WATTS
 WATER HEATER WATTS
 TOTAL CONNECTED WATTS
 TOTAL CONNECTED AMPS
 (BALANCED)

G1: 5 MA TRIP LEVEL G2: 30 MA TRIP LEVEL	} COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER
G3: 50 MA TRIP LEVEL	

SERVICE:
PHASE TO PHASE VOLTAGE: 208
PHASE TO GROUND VOLTAGE: 120
WIRE: 4
PANEL MAINS: 200A MAIN LUGS ONLY
FEED: BOTTOM
MOUNTING: SURFACE

AIC: 22,000
H INDICATES 'HACR' TYPE BREAKER
L INDICATES LOCKED ON BREAKER
G INDICATES GFI CIRCUIT BREAKER
BKR./SIZE INDICATES AMPS/POLE(S)

LOAD NO.	WIRE SIZE	LOAD DESCRIPTION	BKR SIZE	CIRCUIT NUMBER	BKR SIZE	LOAD DESCRIPTION	WIRE SIZE	LOAD WAT	
1250	#12	BREAK/SERV/FAMILY JAN LTG	20/1	1	2	20/1	EXTERIOR/STOR REC	#12	1080
1152	#12	HEN LTG	20/1	3	14	20/1	SERVICE/HEN/HOUN REC	#12	1200
1222	#12	W/CHEN LTG	20/1	5	6	20/1	SPARE	-	0
840	#12	VENDING, MAP, LOBBY LTG	20/1	1	8	20/1	VEND/HEN REC	#12	900
135	#12	W/CHEN R.R. MECH ROOM	20/1	9	10	20/1	LOBBY REC	#12	120
960	#12	LOBBY LTG	20/1	11	12	20/1	REC	#12	1200
940	#12	LOBBY LTG	20/1	13	14	20/1	SPARE	-	0
540	#12	LOBBY/W/CHEN R.R.	20/1	15	14	20/1	EUC	#12	1200
2230	#10	EXTERIOR, CUPOLA LTG	20/1	17	18	20/1	RCF-1 + RCF-2	#12	100
2230	#10	EXTERIOR, CUPOLA LTG	20/1	19	20	20/1	SPARE	-	0
0	-	SPARE	20/1	21	22	20/1	SPARE	-	0
0	-	SPARE	20/1	23	24	20/1	VENDING MACHINE REC	#12	1000
940	#12	LOBBY REC	20/1	25	26	20/1	VENDING MACHINE REC	#12	1000
100	#12	MECH/PAV	20/1	27	28	20/1	VENDING MACHINE REC	#12	1000
1000	#10	KITCHENETTE/REFRIG	20/1	29	30	20/1	VENDING MACHINE REC	#12	1000
1121	#12	DISPOSAL	20/1	31	32	20/1	VENDING MACHINE REC	#12	1000
460	#12	GENZ/ATTIC REC 1 LTG	20/1	33	34	20/1	LIGHTING CONTROLS	#12	200
500	#12	HEAT BATTERIES, CONTROL	20/1	35	36	20/1	EXTERIOR KIOSK	#10	1000
2000	#10	GEN HEATER	30/2	31	38	20/1	SPARE	-	0
2000	#10	SPARE	30/2	39	40	20/1	SERVICE TRAILER REC	#8	1800
2000	#10	SPARE	30/2	41	42	20/1	SERVICE TRAILER REC	#8	1800

HVAC WATTS
 MOTOR WATTS
 RECEPTACLE WATTS
 LIGHTING WATTS
 WATER HEATER WATTS
 TOTAL CONNECTED WATTS
 TOTAL CONNECTED AMPS
 (BALANCED)

SERVICE:
 PHASE TO PHASE VOLTAGE: 240
 PHASE TO GROUND VOLTAGE: 120
 WIRE: 3
 PANEL MAINS: 200A MAIN LUGS ONLY
 FEED: BOTTOM WITH FEED THRU LUGS AT TOP
 MOUNTING: SURFACE

AIC: 22,000
H INDICATES 'HACR' TYPE BREAKER
L INDICATES LOCKED ON BREAKER
G INDICATES GFI CIRCUIT BREAKER
BKR./SIZE INDICATES AMPS/POLE(S)

LOAD WATTS	WIRE SIZE	LOAD DESCRIPTION	BSR SIZE	CIRCUIT NUMBER	BSR SIZE	LOAD DESCRIPTION	WIRE SIZE	LOAD WATTS	
1250	#12	MECH/SERV/JAN LTG	20/1	1	2	20/1	EXTERIOR 1 STOR REC	#12	1250
152	#12	HEN LTG	20/1	3	4	20/1	SERVICE/HEN/WOMEN REC	#12	1080
822	#12	WOMEN LTG	20/1	5	4	20/1	SPARE	-	0
915	#12	VEST. MAP. LOBBY LTG	20/1	1	8	20/1	VEND./WOMEN REC	#12	900
583	#12	VENDING/VEST LTG	20/1	9	10	20/1	LOBBY/HEN REC	#12	900
360	#12	LOBBY LTG	20/1	1	12	20/1	TELEPHONE BOARD REC	#12	180
360	#12	LOBBY LTG	20/1	19	15	20/1	IRRIGATION SYSTEM	#12	560
470	#12	HANT. SHED LTG	20/1	5	4	20/1	EUC	#12	100
500	#12	CCTV (FUTURE)	20/1	11	18	20/1	DISPOSAL	#12	121
950	#12	DISPLAY LTG	20/1	19	20	20/1	KITCHENETTE/REFRIG	#12	1000
120	#12	MAINTENANCE SHED REC	20/1	21	22	20/1	MICROJAVE REC	#12	1200
100	#12	EUC	20/1	23	24	20/1	VENDING MACHINE	#12	1000
100	#12	LOBBY REC	20/1	25	26	20/1	VENDING MACHINE	#12	1000
1200	#12	MICROJAVE	20/1	27	28	20/1	VENDING MACHINE	#12	1000
1000	#12	KITCHENETTE/REFRIG	20/1	29	30	20/1	VENDING MACHINE	#12	1000
121	#12	DISPOSAL	20/1	31	32	20/1	VENDING MACHINE	#12	1000
460	#12	HEZZ/ATTIC REC & LTG	20/1	33	34	20/1	MECH ROOM. DISPLAY REC	#12	900
0	-	SPARE	20/1	35	36	20/1	DISPLAY REC	#12	120
0	-	SPARE	20/1	37	38	20/1	SPARE	-	0
0	-	SPARE	20/1	39	40	20/1	SPARE	-	0
0	-	SPARE	20/1	41	42	20/1	SPARE	-	0

HVAC WATTS
 MOTOR WATTS
 RECEPTACLE WATTS
 LIGHTING WATTS
 WATER HEATER WATTS
 TOTAL CONNECTED WATTS
 TOTAL CONNECTED AMPS
 (BALANCED)

SERVICE:
PHASE TO PHASE VOLTAGE: 480
PHASE TO GROUND VOLTAGE: 277
WIRE: 4
PANEL MAINS: 125A MAIN CIRCUIT BREAKER
FEED: BOTTOM
MOUNTING: SURFACE

H INDICATES 'HACK' TYPE BREAKER
L INDICATES LOCKED ON BREAKER
G INDICATES GFI CIRCUIT BREAKER
BKR./SIZE INDICATES AMPS/POLE(S)

* REFER TO SITE LIGHTING PLANS FOR WIRE SIZE

LOAD WATT'S	WIRE SIZE	LOAD DESCRIPTION	BRKR SIZE	CIRCUIT NUMBER	BRKR SIZE	LOAD DESCRIPTION	WIRE SIZE	LOAD WATT'S	
2100	*			1	2		*	2100	
2100	*	HIGH MAST LIGHTING	20/3	3	4	20/3	*	2100	
1800	*			5	6		*	1800	
3300	*			7	8		*	3300	
3300	*	PARKING LOT LIGHTING	20/3	9	10	20/3	*	2100	
3300	*			11	12		*	1100	
400	*			13	14	20/1	*	2300	
400	*	PARKING LOT LIGHTING	20/3	15	16	20/1	*	2300	
400	*			17	18	20/1	*	2300	
2900	*	PEDESTRIAN LIGHTING	20/1	19	20	20/1	-	0	
0	-	SPARE	20/1	21	22	20/1	SPARE	-	0
0	-	SPARE	20/1	23	24	20/1	SPARE	-	0
0	-	SPARE	20/1	25	26			-	0
0	-	SPARE	20/1	27	28	30/3	TVSS	-	0
0	-	SPARE	20/1	29	30			NIO	0

RECEPTACLE WATTS	0
LIGHTING WATTS	44200
TOTAL CONNECTED WATTS	44200
TOTAL CONNECTED AMPS (BALANCED)	53.16

SERVICE:
PHASE TO PHASE VOLTAGE: 208
PHASE TO GROUND VOLTAGE: 120
WIRE: 4
PANEL MAINS: 125A MAIN CIRCUIT BREAKER
FEED: BOTTOM
MOUNTING: SURFACE

AIC: 22,000
H INDICATES 'HACR' TYPE BREAKER
L INDICATES LOCKED ON BREAKER
G INDICATES GFI CIRCUIT BREAKER
BKR./SIZE INDICATES AMP(S)/POLE(S)

LOAD WAT	WIRE SIZE	LOAD DESCRIPTION	BKR SIZE	CIRCUIT NUMBER	BKR SIZE	LOAD DESCRIPTION	WIRE SIZE	LOAD WAT
I00	#12	WATER VALVES	20/1	11	4	25/2	UNIT HEATER	#10 1850
I080	#12	FAMILY RESTROOM	20/1	3	12	↓	UNIT HEATER	#10 1850
I00	#12	WATER VALVES	20/1	11	4	25/2	UNIT HEATER	#10 1850
I080	#12	FAMILY RESTROOM	20/1	3	12	↓	UNIT HEATER	#10 1850
I25	#12	EXT. DOOR LIGHTS	20/1	13	10	25/2	UNIT HEATER	#10 1850
I208	#12	LIGHTING	20/1	11	12	↓	UNIT HEATER	#10 1850
O -	-	SPARE	20/1	15	14	25/2	UNIT HEATER	#10 1850
O -	-	SPARE	20/1	15	14	↓	UNIT HEATER	#10 1850
O -	-	SPARE	20/1	11	12	35/2	UNIT HEATER	#8 2500
O -	-	SPACE	-	18	16			#8 2500
O -	-	SPACE	-	21	22	-	SPACE	- O
O -	-	SPACE	-	23	24	-	SPACE	- O
O -	-	SPACE	-	25	26	-	SPACE	- O
O -	-	SPACE	-	21	28	-	SPACE	- O
O -	-	SPACE	-	29	30	-	SPACE	- O

HVAC WATTS
 MOTOR WATTS
 RECEPTACLE WATTS
 LIGHTING WATTS
 WATER HEATER WATTS
 TOTAL CONNECTED WATTS
 TOTAL CONNECTED AMP
 (BALANCED)

GI: 5 MA TRIP LEVEL } COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER
 50.20 MA TRIP LEVEL }

DESIGNATION	LOCATION	KVA	PRIMARY VOLTAGE	SECONDARY VOLTAGE	MOUNTING
T-1	ADJACENT TO PANEL 'S'	15	208V, 3 ϕ , 3W	480Y/277V, 3 ϕ , 4W	FLOOR MOUNTED

NOTES:

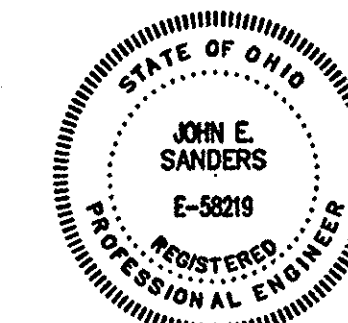
1. T-1: UL CLASS 220°C INSULATION SYSTEM, 150°C TEMPERATURE RISE UNDER FULL LOAD

CONSULTING ARCHITECTS & ENGINEERS

ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL/ELECTRICAL/STRUCTURAL
S.B.A. INC.

SITE/CIVIL
KZF DESIGN, INC.
LANDSCAPE ARCHITECTURE:
KINZELMAN KLINE

REVISIONS

[illegible]

FOR:
OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
ELECTRICAL SCHEDULES - NORTH SITE (WEST BOUND)

PROJECT NO. 770-2003-074
I/70 LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION

PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLOT DATE	DATE
AUGUST 2004	AUGUST 2004

NE-4

HEAD STATION: Mary-Drawing: I:\DRAWINGS\SAO\REST AREAS\LUCKING\NORTH\4005-NE4.dwg DATE: JUL 20, 2004 TIME: 11:45 AM

SYMBOL	NTG	DESCRIPTION
		WIRING IN CONDUIT.
		WIRING IN CONDUIT IN SLAB OR BELOW GRADE
A-1 		CIRCUIT CONDUIT HOOKUP TO PANEL. LETTER INDICATES PANEL DESIGNATION. NUMBERS INDICATE CIRCUIT NUMBERS.
\$ 	48' AFF	SWITCH, SINGLE POLE, 20 AMP, 120V K = KEY OPERATED.
\$3 	48' AFF	SWITCH, THREE-WAY, 20AMP, 120V K = KEY OPERATED.
\$M 	48' AFF	HANDUAL MOTOR STARTING SWITCH, SPST, 120 WITH THERMAL OVERLOAD.
	18' AFF UON	DUPLEX RECEPTACLE, GROUNDING TYPE, 20 AMP, 125 VOLT, 3 WIRE.
	18' AFF UON	DOUBLE DUPLEX RECEPTACLE, GROUNDING TYPE, 20 AMP, 125 VOLT, 3 WIRE.
		ARROW INDICATES OUTLET ON DEDICATED CIRCUIT. V = VENDING
	AS NOTED	DUPLEX RECEPTACLE WITH GROUND FAULT INTERUPTER, 20 AMP, 125 VOLT, 3 WIRE. HP=HATEPROOF
	18' AFF UON	TELEPHONE OUTLET, 4' SQUARE, FLUSH MOUNTED BOX WITH SINGLE GANG BLANK COVER PLATE. P = PUBLIC PHONE • 48' AFF V = VENDING
	18' AFF UON	DATA OUTLET, 4' SQUARE, FLUSH MOUNTED BOX WITH SINGLE GANG BLANK COVER PLATE. F = FLOOR MOUNTED
	18' AFF UON	CABLE OUTLET, 4' SQUARE, FLUSH MOUNTED BOX WITH SINGLE GANG BLANK COVER PLATE. F = FLOOR MOUNTED
	AS NOTED	JUNCTION BOX, MOUNTING HEIGHT AND SIZE AS REQUIRED OR AS INDICATED.
 HD 	CLG WALL 3'	OUTLET BOX IN OR ABOVE CEILING. OUTLET BOX IN WALL, SIZE AND TYPE AS REQ'D. PROVIDE RECESSED ELECTRIC HAND DRYER, TOUCHLESS AUTOMATIC OPERATION, 8000L DRYING HEIGHT IS FROM FINISHED FLOOR TO BOTTOM OF DRYER. MAINTAIN 2'-0" BETWEEN DRYERS.
		POWER OPERATED DOOR-VERIFY POWER AND CONNECTION REQUIREMENTS.
		PUSH PLATE SWITCH FOR POWER OPERATED DOOR. FURNISHED BY GC. INSTALLED AND WIRED BY EC
	ABOVE CEILING U.O.N.	OUTLET BOX FOR FUTURE CLOSED CIRCUIT TELEVISION CAMERA.
		REFER TO NOTE

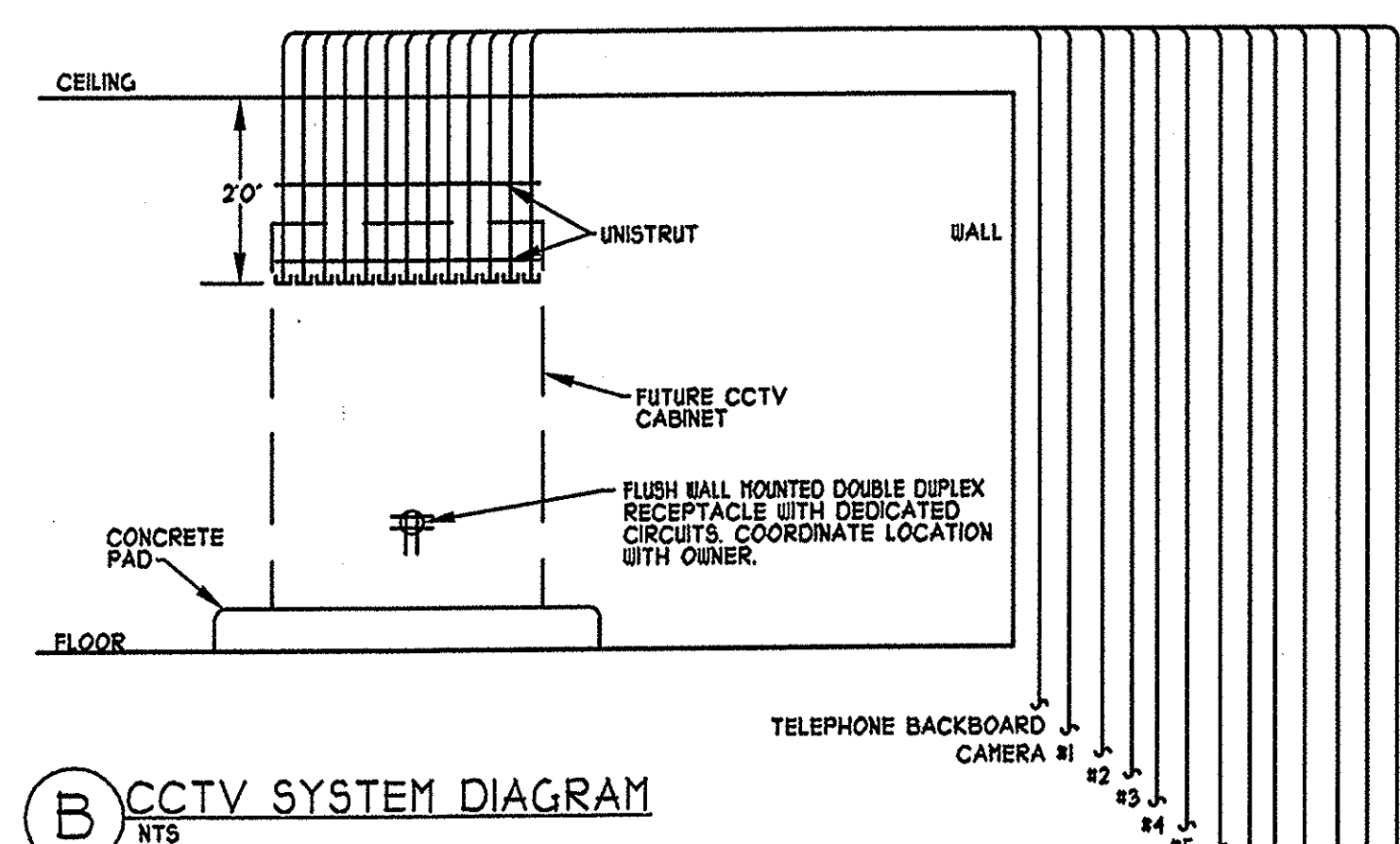
A AMPERE
AL ALTERNATING CURRENT
AFF ABOVE FINISHED FLOOR
AFU ABOVE FINISHED GRADE
AIC AMPERE INTERRUPTING CAPACITY
AMP AMPERE
ARCH ARCHITECTURAL
BKR BREAKER
CB CIRCUIT BREAKER
CCTV CLOTHED CIRCUIT TELEVISION
CKT CIRCUIT
CLG CEILING
CDL CONTROL
D DEPTH
DO DIRECT CURRENT
DUG DRAWING
E ELECTRICAL CONTRACTOR
EWC ELECTRIC WATER COOLER
FT FEET FOOT
G GROUND
GC GENERAL CONTRACTOR
GRD GROUND
H HEIGHT
HTR HEATER
HVAC HEATING, VENTILATION, AIR CONDITIONING
J JUNCTION BOX
KVA KILLO-VOLT-AMPERE
KV KILLO-VOLT
KW KILLO-WATT
LTG LIGHTING
LTS LIGHTS
MCB MAIN CIRCUIT BREAKER
MECH MECHANICAL
MIN MINUTE
MLO MAIN LUG ONLY
MTO MOUNTED
HTG HEATING
N NEUTRAL
NO NUMBER
ON ON CENTER
PEC PHOTO ELECTRIC CONTROL
PNL PANEL
FWR POWER
REC RECEPTACLE
REC RECESSED
REQ/O REQUIRED
STR STARTER
SURF SURFACE
TB TERMINAL BOARD
TC TIME CLOCK
TELE TELEPHONE
TV TELEVISION
TYP TYPICAL
UNOI UNLESS OTHERWISE INDICATED
UON UNLESS OTHERWISE NOTED
V VOLT
V VENDING
VA VOLT-AMPERE
W WIRTH

TYPE	HTG	DESCRIPTION	LAMPS	WATTS	VOLTS	CATALOG NO.	CATALOG NO.	CATALOG NO.	CATALOG NO.	CATALOG NO.
A	II-O AFF	WALL MOUNTED ADJUSTABLE INDIRECT METAL HALIDE WITH REMOTE BALLAST.	I-400W	460	120	WINONA #PI-LSH-400-LSI-SGWI	INSIGHT #TM983-RCB-I-I-FINISH	FORUM #AQUA-400TH-I-A5	ELLIPTIPAR #MLW-M400Z-02-A-V0-O	ORGA TECH/OMEGA LUX XZ400TH-I-Y-C-A-3- (WEDGE ENCLOSURE)
B	CLG REC	8" DIA. COMPACT FLUORESCENT DOWNLIGHT WITH CLEAR ALZAK REFLECTOR CONE.	2-42W CF42/TRT	90	120	INDY #110R-42I-SAC	LITHONIA #AF-2/42TRT-8AR-120	PORTFOLIO #FD8-HU292E-8HC	PRESCOLITE #CTD832HEB-STFD802H-B24	OMEGA LIGHTING #OH62H42PLT-CS-120/271
BW	CLG REC	8" DIA. COMPACT FLUORESCENT WALL WASHER WITH CONCAVE LENS AND CLEAR ALZAK REFLECTOR.	I-42W CF42/TRT	45	120	INDY #31IR-42I-SAC	LITHONIA #DFR-I/42TRT-TAB-120	PORTFOLIO #CT942E-1193LI	COLUMBIA LIGHTING #CFTB932EB-ST42-B24	OMEGA LIGHTING #OH6H42PLT-LBW-CS-120/271
BA	CLG REC	8" DIA. COMPACT FLUORESCENT DOWNLIGHT WITH CLEAR ALZAK REFLECTOR CONE AND SLOPE CEILING HOUSING.	2-42W CF42/TRT	90	120	INDY #110R-42I-SAC #/ SLOPE CEILING HOUSING	LITHONIA #AF-2/42TRT-8AR-120 #/ SLOPE CEILING HOUSING	PORTFOLIO #FD8-HU292E-8HC #/ SLOPE CEILING HOUSING	PRESCOLITE #CTD832HEB-STFD802H-B24	OMEGA LIGHTING #OH62H42PLT-CS-120/271 #/ SLOPE CEILING HOUSING
C	CLG REC	1" DIA. RECESSED COMPACT FLUORESCENT DOWNLIGHT WITH REGRESSED CONCAVE PRISMATIC LENS & WHITE SPLY TRIM.	I-42W CF42/TRT	45	120	INDY #41OR-42IE-PPL	LITHONIA #LGFV-42TRT-TRW CHL-120	SPECTRUM #SP1VF-42-I-05-120PG	PRESCOLITE #CFT832EB-WTF804-SL-B24	CAPRI LIGHTING #CH85-FV224/32/42U-V84F
D	T-4 AFF	1" X 4" WALL MOUNTED FLUORESCENT VANDAL RESISTANT FIXTURE WITH WHITE POLYCARBONATE LENS & PERIMETER PAINT.	2-32W F32/T8	64	120	C.D.LIGHTING #VWA-4-232-120-EB	KENALL #N1HAS-48-R-X-CP-232-EBH-120	FAIL-SAFE #F8-RU-PP-44-A	HORLITE #HPL12000-232-120	LEGION LIGHTING #18-232-UBP-EB0-WL
E	CLG SURF	2" X 4" SURFACE MOUNTED MODULAR FLUORESCENT WITH FLAT STEEL DOOR. 125" ACRYLIC PRISMATIC LENS & TWO CIRCUIT WIRING.	4-32W F32/T8	128	120	HUBBELL #S50-CA02B5	LITHONIA #2HC-432-A125-120-GE8	METALUX #2HC-432-A125-120-EB81	COLUMBIA LIGHTING #SH24-432-FSA125-1EB8120	DAYBRITE LIGHTING #D51432-F512-120-1/4E
F	CLG SURF	8" X 4" SURFACE MOUNTED FLUORESCENT WITH WRAPAROUND ACRYLIC PRISMATIC LENS.	2-32W F32/T8	64	120	HUBBELL #W32B	LITHONIA #5B-232-120-GE8	METALUX #4U-232A-120-EB81	COLUMBIA LIGHTING #AUM4-232-EB8120	DAYBRITE LIGHTING #OUN232-120-1/2EB
G	BOTTO M O-O	1" X 4" CHAIN SUSPENDED INDUSTRIAL FLUORESCENT FIXTURE WITH APERTURED REFLECTOR.	2-32W F32/T8	64	120	HUBBELL #H1242RPI0B	LITHONIA #LA-232-120-GE8	METALUX #1A-232-120-EB81	COLUMBIA LIGHTING #CSR4-232-EB8120	DAYBRITE LIGHTING #IF0232-PP-120-1/2EB
H	AS REQ'D	4 FT. OPEN STRIP FLUORESCENT.	2-32W F32/T8	64	120	HUBBELL #C232B	LITHONIA #C-232-120-GE8	METALUX #5B-232-120-EB81	COLUMBIA LIGHTING #C54-232-EB8120	DAYBRITE LIGHTING #T232-120-1/2EB
J	CLG SURF	8 FT. TANDEN INDUSTRIAL FLUORESCENT FIXTURE WITH FIBER GLASS HOUSING, ACRYLIC LENS & 0° LOW TEMP BALLAST.	4-32W F32/T8	128	120	HUBBELL #EUL04IR-SPDR-BI	LITHONIA #TVRI-432-120-CB-I/4-TUBI	METALUX #8TV2-232-120-EB81-DR-Z	COLUMBIA LIGHTING #LJW4-232-EB8120	DAYBRITE LIGHTING #TDWAE232-120-1/4LT
K	5-O AFF	METAL HALIDE WALLPACK WITH POLYCARBONATE HOUSING.	I-100W H100	125	120	HUBBELL #PVL-100H-128-L	LITHONIA #TUA-100H-120-LPI	LUNARK #1HWP-100H-NT	SPAUDLING-WHITEWAY #NRLK-H100-120	DAYBRITE LIGHTING #N1800HMT-LP
L	CLG REC	RECESSED OUTDOOR METAL HALIDE LOW PROFILE DOWNLIGHT WITH FRESNEL LENS AND DIE CAST TRIM	I-100W H100	125	120	STERNER #SHR-555-100TH-120-WIR-DU	KENALL #NRI1RP3R/CC-C-XX-100TH-120	USAL #5091-100TH-120-XXX	REBELLE LIGHTING #Z21H-100H	GARDCO LIGHTING #Z220-F-100TH-120-BR
M	ARCH DETAIL	METAL HALIDE ADJUSTABLE SPOT LIGHT	I-10W H10W/PAR30 /SP	100	120	STERNER #VERB-L10MH-C-YK-WH	HYOREL #4630-P2010H-120-S5B34S-FINISH	BK #5E-42-XXX-9-B-PC10-120	A.A.L. #O8R-10T6-120	GARDCO LIGHTING #DBP1-J-PAR38-10MH-120-BLP
T	SURF HTD	3 1/4" x 5 1/2" VANDAL RESISTANT BRICK SHAPED LIGHT WITH CLEAR PRISMATIC LENS, COMPACT FLUORESCENT TRIPLE TUBE LAMP	I-3CFT2W	32	120	CD LIGHTING #VWP-3-2-18-120-HB-HP-COLOR	LITHONIA #VKB3H-32TRT-120-LPI	FAIL-SAFE #CTCB-HE-32H-120-LI	WFO HARRIS LIGHTING #H0-32PLT-I-HFF-120-LP-C4	DAYBRITE #C5T1-C-92C-COLOR
X	ABOVE DOOR	LED EXIT SIGN WITH DIE CAST ALUMINUM HOUSING, STENCIL FACE, RED LETTERS, EMERGENCY BATTERY AND SELF DIAGNOSTICS.	LED	10	120	HUBBELL #CWPALR3D	LITHONIA #LE-S-W-I-R-ELN-50	DUAL LITE #LCSRU-E1	DAYBRITE LIGHTING #NERS5112/21R	
EH	CLG REC	RECESSED EMERGENCY LIGHTING UNIT WITH TWIN HEADS, AND MAINTENANCE FREE LONG LIFE LEAD BATTERY AND SELF DIAGNOSTICS.	2-8W PAR36	25	120	HUBBELL #CL-6-26-2P8ID	LITHONIA #ELR4-3D	DUAL LITE #1B-5-I	DAYBRITE LIGHTING #NKL8U-PSUC	
EHR	CLG REC	RECESSED EMERGENCY LIGHTING UNIT WITH TWIN HEADS, AND MAINTENANCE FREE LONG LIFE LEAD BATTERY, REMOTE CAPACITY AND SELF DIAGNOSTICS.	2-8W PAR36	25	120	HUBBELL #CL-6-26-2P8I-D	LITHONIA #ELR4-3D	DUAL LITE #1B-30-1	DAYBRITE LIGHTING #NKL25H-PSUC	
EH5	WALL	SURFACE MOUNTED EMERGENCY LIGHTING UNIT WITH TWIN HEADS, MAINTENANCE FREE LONG LIFE LEAD BATTERY, REMOTE CAPACITY & SELF DIAGNOSTICS.	2-12W PAR36	25	120	HUBBELL #P64-26-2R8I-D #/REMOTE CAPACITY FOR (2) HEADS	LITHONIA #ELR4-3D	DUAL LITE #LH401	HC PHILBEN #CTX4240-CSHC PROVIDE REMOTE CAPACITY MODELS	
RH	CLG 									

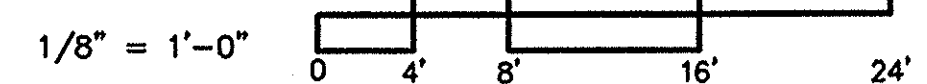
1 ALL FLUORESCENT BALLASTS SHALL BE ELECTRONIC, ENERGY SAVING.
2 ALL FLUORESCENT LAMPS SHALL BE 3500°K COLOR TEMPERATURE.
3 POLE, KR312-4120FM-DB-P WITH PROVISION FOR TWO WP GFI 120V 20A
DUPLEX RECEPTACLES AT 2' ABOVE BASE. PROVISIONS SHALL MEET
NEC 404.8-(B)-(2)-(A) REQUIREMENTS.



1. CONDUIT TO TELEPHONE, DATA, AND CABLE OUTLET: 3/4" WITH #12 PULL WIRE
2. TELEPHONE/DATA SERVICE CONDUIT: 4" PVC #40 WITH PULL WIRE.
COORDINATE SERVICE WITH UTILITY. PROVIDE CONDUIT AND PULL WIRE
PER UTILITY REQUIREMENTS AND DIRECTIONS.
3. CABLE/DATA SERVICE CONDUIT: 2" PVC #40 WITH PULL WIRE.
COORDINATE SERVICE WITH UTILITY. PROVIDE CONDUIT AND PULL WIRE
PER UTILITY REQUIREMENTS AND DIRECTIONS.



1. CONDUITS SHALL EXTEND UPWARD THROUGH CEILING AND THEN EXTEND OVER AND DOWN SIDE OF WALLS FOR ALL CONDUITS INCLUDING THE CONDUITS FOR THE EXHAUST FAN. ALL CONDUITS IN THE ROOM PENETRATE THE FLOOR AREA OF THE ROOM. THE CONDUITS SHALL BE RIDING THE ROOM THE CCTV CABINET IS LOCATED IN.
2. CONDUIT TO TELEPHONE BACKBOARD: 1-3/4" WITH #12 PULL WIRE.
3. CONDUITS FOR CAMERA#1: #1-1/8" 2-3/4" WITH #12 PULL WIRE. TERMINATE CONDUITS TO 50 DEEP BOXES WITH BLANK COVER PLATES. BOXES SHALL BE LOCATED IN CONCEALED SPACE.
4. ACCESS FROM CAMERA#2 AND CAMERA#3 TO CONDUITS FOR CAMERA#1: #1-1/8" 2-1/2" WITH #12 PULL WIRE. CAP CONDUITS JUST ABOVE GRADE ADJACENT TO LIGHT POLE BASE. SEE SHEET NES-1 FOR LOCATIONS.
5. CONDUIT FOR CAMERA #2: 2" WITH #12 PULL WIRE. CONDUITS STUPED UP INSIDE OF INTERCOMB. CASE.
6. TAG CONDUITS WITH LOCATION OF CONDUIT RUN (I.E. CAMERA #1 ETC.)



ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL/ELECTRICAL/STRUCTURAL
S.R.A. INC.

SITE/CIVIL
KZF DESIGN, INC.

LANDSCAPE ARCHITECTURE:
KINZELMAN KLINE

[illegible]

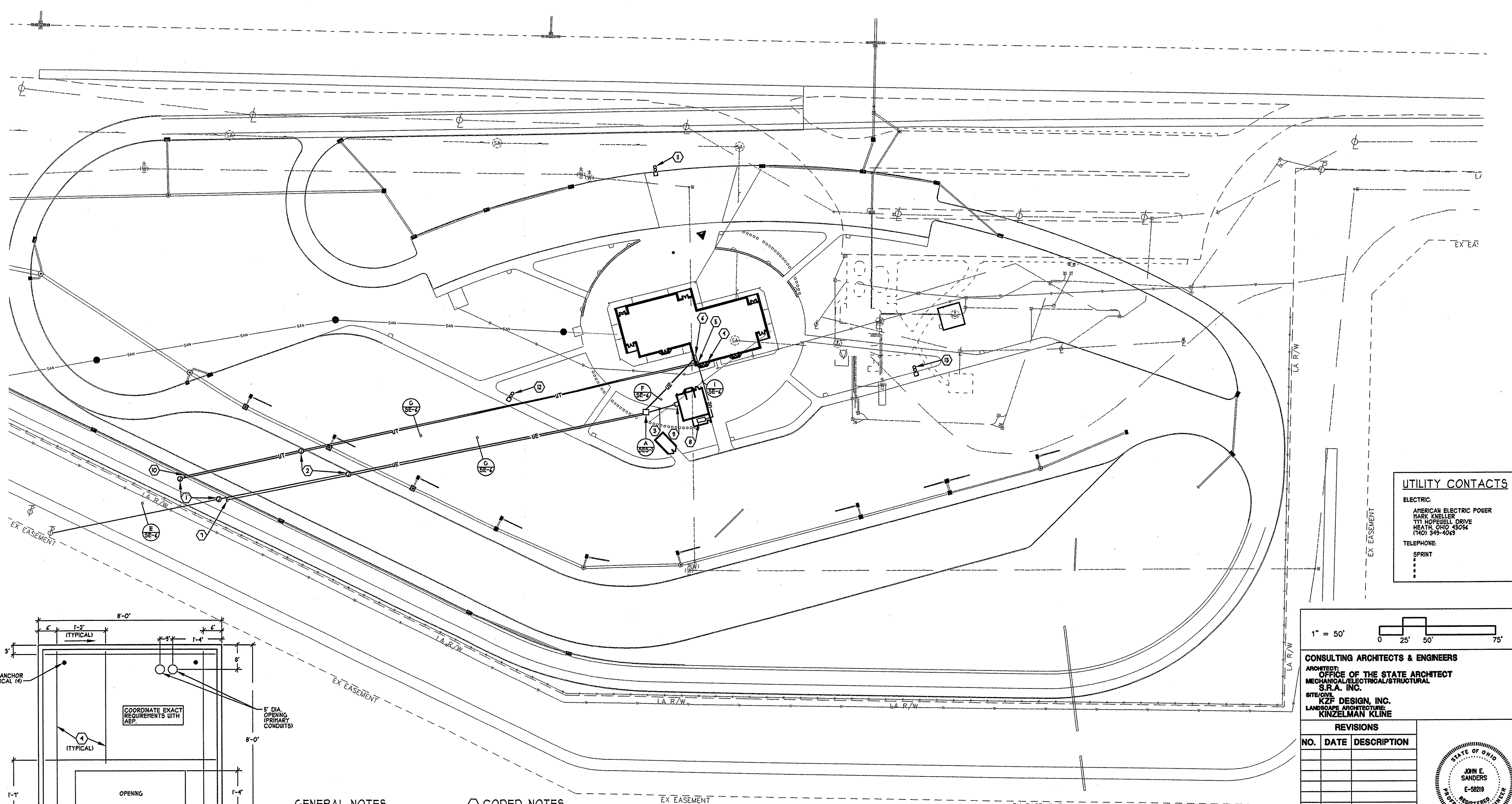
DRAWING DESCRIPTION:
ELECTRICAL DIAGRAMS & SCHEDULES - NORTH SITE (WEST BOUND)

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION

PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLOT DATE AUGUST 2004	DATE AUGUST 2004	NE-5
---------------------------------	----------------------------	-------------

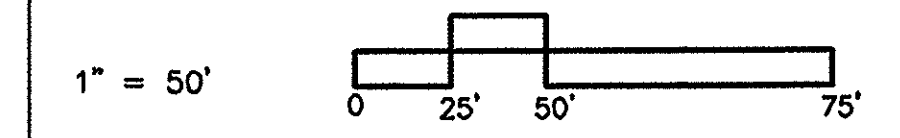
CAD STATION: Mary-DRAWING: L:\DRAWINGS\SAO\REST AREAS\LUCKING\NORTH\4005-NF5.dwg DATE: JUL 20, 2004 TIME: 11:45 AM



UTILITY CONTACTS

ELECTRIC:
AMERICAN ELECTRIC POWER
MARK KUEHLER
111 HOPEWELL DRIVE
HEATH, OHIO 43054
(760) 945-4063

TELEPHONE:
SPRINT
*
*
*



CONSULTING ARCHITECTS & ENGINEERS

ARCHITECT: OFFICE OF THE STATE ARCHITECT
MECHANICAL/ELECTRICAL/STRUCTURAL
S.R.A. INC.
SITE/CIVIL: KZL DESIGN, INC.
LANDSCAPE ARCHITECTURE: KINZELMAN KLINE

REVISIONS		
NO.	DATE	DESCRIPTION



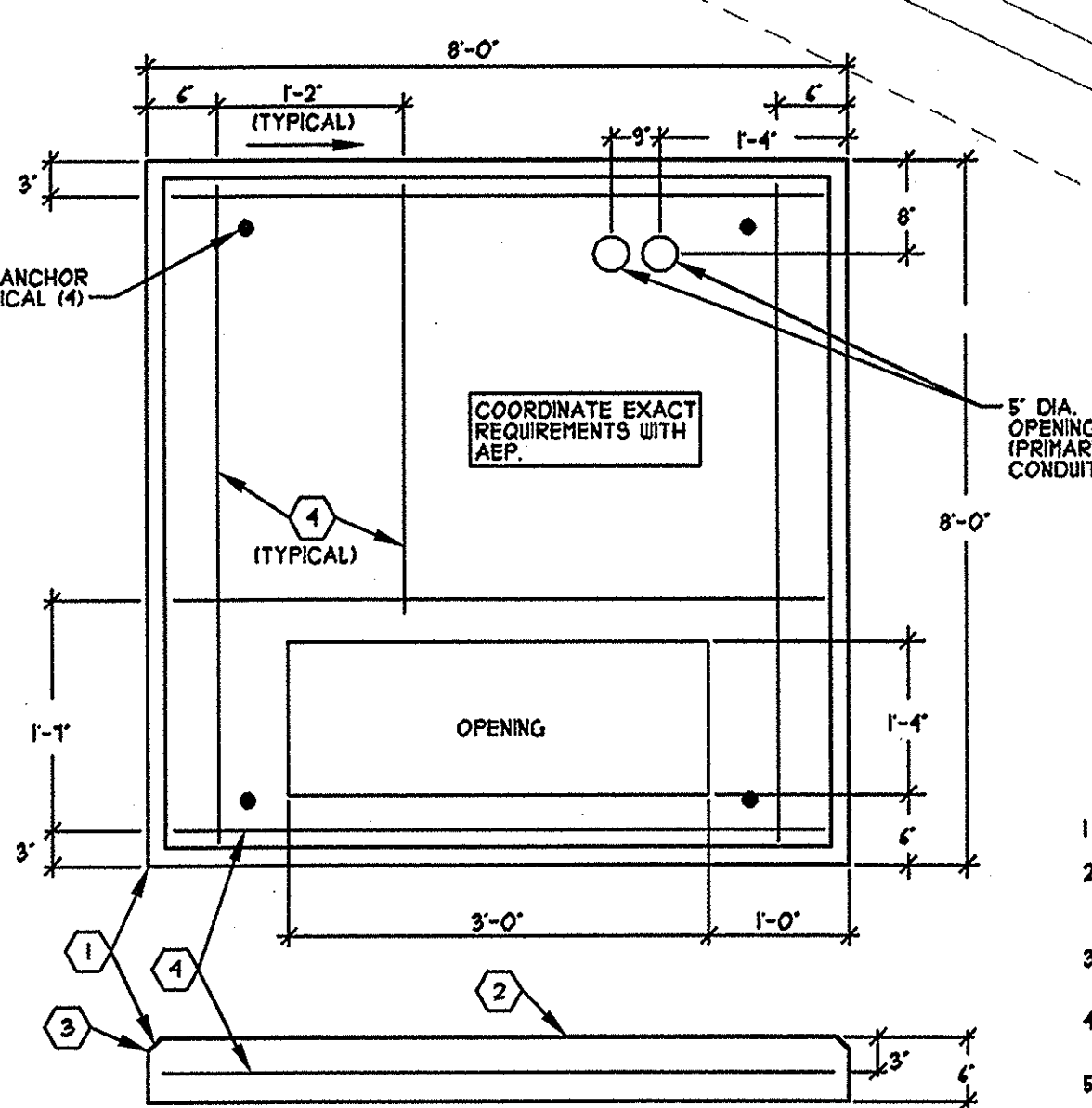
FOR:
OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
ELECTRICAL SITE PLAN - SOUTH SITE (EAST BOUND)

PROJECT NO. 770-2003-074
170 LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLOT DATE	DATE	
AUGUST 2004	AUGUST 2004	SES-1



GENERAL NOTES

- FOR SITE LIGHTING SEE SHEETS C414 THRU C417.
- COORDINATE ALL ROUTING AND REQUIREMENTS OF UTILITY CONDUITS WITH UTILITY COMPANIES PRIOR TO ROUGH-IN.
- CONTRACTOR SHALL USE RIGID WIDE SWEEP ELBOWS FOR ALL UTILITY CONDUIT TURNS.
- STRAIGHT RUNS OF UTILITY CONDUITS SHALL BE SCHEDULE 40 PVC.
- COORDINATE EXACT REQUIREMENTS AND DIMENSIONS OF TRANSFORMER PAD WITH UTILITY COMPANY.

CODED NOTES

- INGROUND PULL BOX FOR UTILITY COMPANY USE. REFER TO CIVIL DETAILS AND COORDINATE WITH APPROPRIATE UTILITY COMPANY.
- LOCATION OF CONDUIT CAP AND PULL BOX IF PAVING ALTERNATE IS NOT ACCEPTED.
- 1 1/4" METERING CONDUIT (WITH PULL WIRE).
- APPROXIMATE LOCATION OF TELEPHONE SERVICE BOARD. SEE POWER PLAN SHEET SE-1 AND TELEPHONE SYSTEM DIAGRAM DETAIL A SHEET SE-5.
- APPROXIMATE LOCATION OF AUTOMATIC TRANSFER SWITCH. SEE POWER PLAN SHEET SE-1.
- APPROXIMATE LOCATION OF PANEL 'MSB'. SEE POWER PLAN SHEET SE-1.
- 5' SPARE CONDUIT (CAPPED).
- STANDBY GENERATOR (ALTERNATE). SEE SHEET SE3-2 AND SINGLE LINE DIAGRAM SHEET SE-3.
- UTILITY COMPANY METER.
- 4' SPARE CONDUIT (CAPPED).
- CONDUIT STUBBED UP AND CAPPED AT LIGHT POLE CASE FOR FUTURE CCTV CAMERA #3. SEE SHEETS L2.0 AND SE-5.
- CONDUIT STUBBED UP AND CAPPED AT LIGHT POLE CASE FOR FUTURE CCTV CAMERA #10. SEE SHEETS L2.0 AND SE-5.
- CONDUIT STUBBED UP AND CAPPED AT LIGHT POLE CASE FOR FUTURE CCTV CAMERA #11. SEE SHEETS L2.0 AND SE-5.

CODED NOTES

- CHAMFER ALL EXPOSED EDGES 1"
- FINISH TOP SURFACE SMOOTH AND LEVEL.
- SIDES MAY BE TAPERED UP TO 1/2".
- 24 - 14" O/C E.B.

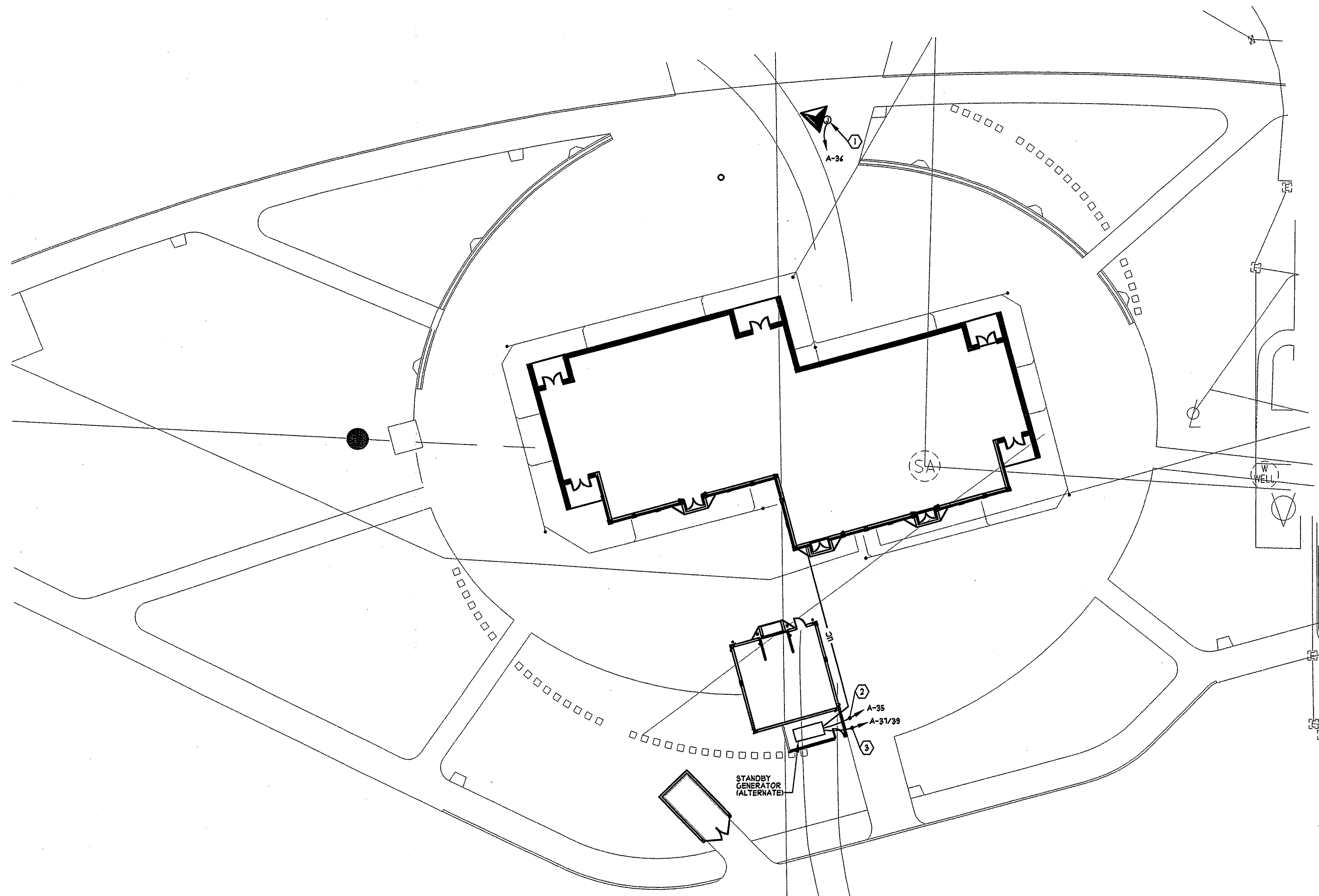
PRIMARY TRANSFORMER PAD
SES-1 N.T.S.

SOUTH (EAST BOUND) SITE PLAN
SCALE 1" = 50'

BID/CONSTRUCTION SET

CODED NOTES

1. JUNCTION BOX FOR KIOSK POWER. COORDINATE INSTALLATION WITH GENERAL CONTRACTOR.
2. 2 #12, 1 #12 GROUND IN 1" CONDUIT FOR GENERATOR BATTERY CHARGERS AND CONTROL CIRCUIT.
3. 2 #10, 1 #10 GROUND IN 1" CONDUIT FOR GENERATOR BLOCK HEATER 10000L 208V. 1P.



ELECTRICAL PLAN
1" = 20'

CONSULTING ARCHITECTS & ENGINEERS

ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL/ELECTRICAL/STRUCTURAL
S.R.A. INC.
SITE/CIVIL
KZF DESIGN, INC.
LANDSCAPE ARCHITECTURE
KINZELMAN KLINE

REVISIONS

NO.	DATE	DESCRIPTION



FOR:
OHIO DEPT. OF TRANSPORTATION

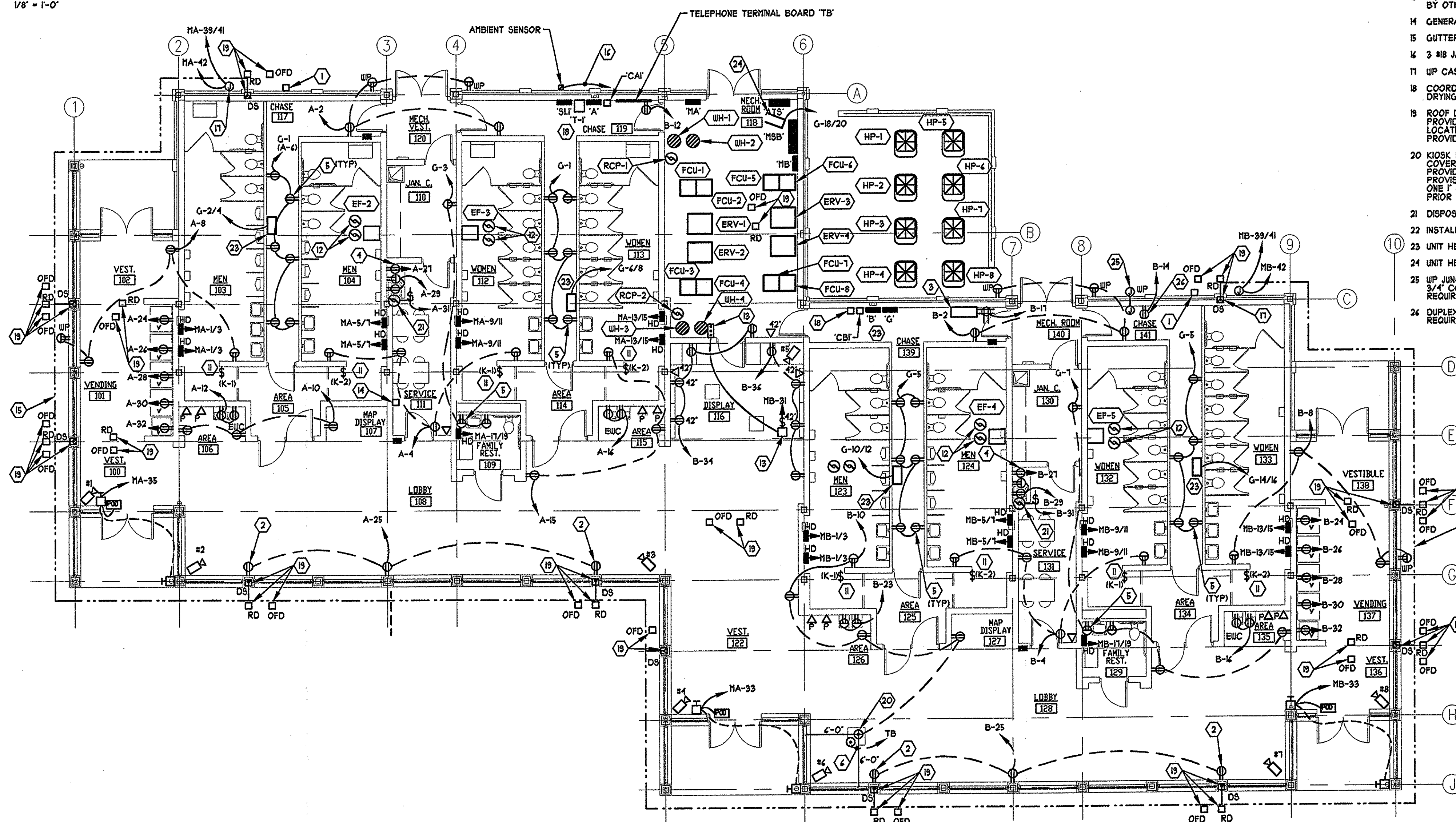
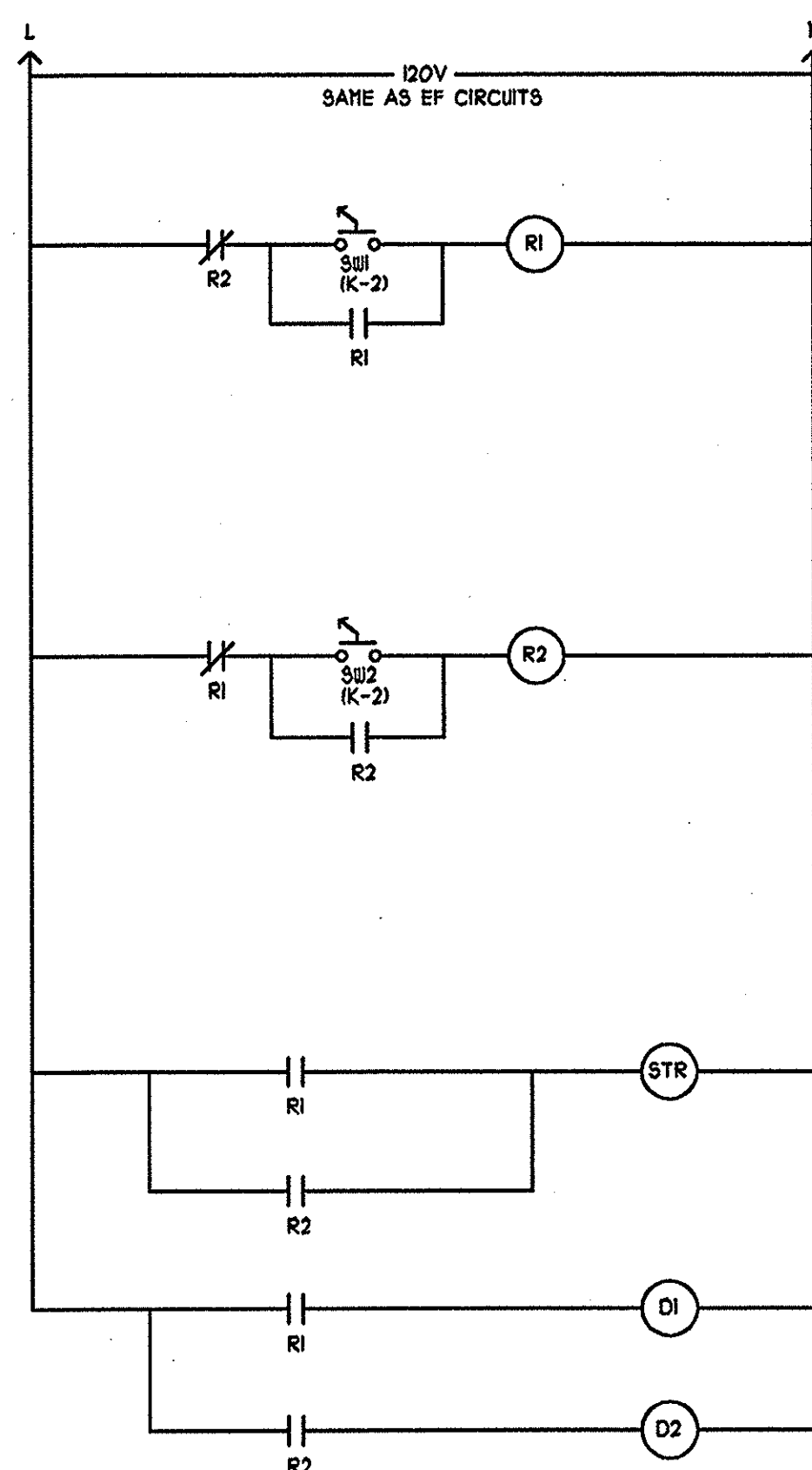
DRAWING DESCRIPTION:
ELECTRICAL SITE PLAN - SOUTH SITE (EAST BOUND)

PROJECT NO. 770-2003-074
1/70 LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLAT DATE	DATE	SES-2
AUGUST 2004	AUGUST 2004	

BID/CONSTRUCTION SET



RESTROOM CLEANING EXHAUST FAN CONTROL DIAGRAM
SCALE: NT3

5. SBL. MOMENTARY KEY SWITCH, ALLEN-BRADLEY 2 POSITION CYLINDER LOCK OPERATOR #800T-H48B OR APPROVED EQUAL MOUNTED IN PLUSH MOUNTED ENCLOSURE WITH STAINLESS STEEL FACE PLATE WITH LEGEND PLATE #FAN.

6. SBL. MOMENTARY KEY SWITCH, ALLEN-BRADLEY 2 POSITION CYLINDER LOCK OPERATOR #800T-H48B OR APPROVED EQUAL MOUNTED IN PLUSH MOUNTED ENCLOSURE WITH STAINLESS STEEL FACE PLATE WITH LEGEND PLATE #FAN.

7. RI. ADJUSTABLE 0-30 MINUTE TIRING RELAY WITH MOMENTARY START INPUT AND MOMENTARY RESET INPUT. ALLEN-BRADLEY #100-HRS2T4T OR APPROVED EQUAL MOUNTED IN NEMA 1 ENCLOSURE ADJACENT TO FAN STARTER.

8. ADJUSTABLE 0-30 MINUTE TIRING RELAY WITH MOMENTARY START INPUT AND MOMENTARY RESET INPUT. ALLEN-BRADLEY #100-HRS2T4T OR APPROVED EQUAL MOUNTED IN NEMA 1 ENCLOSURE ADJACENT TO FAN STARTER.

9. STR. STARTER FOR FAN UNIT

10. DI. MOTORIZED DAMPER UNIT FOR FAN UNIT.

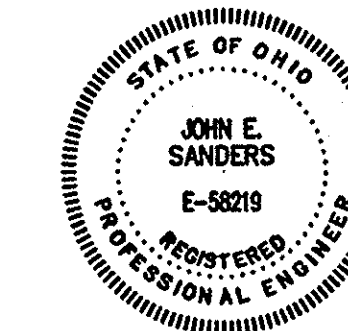
11. DI. MOTORIZED DAMPER UNIT FOR FAN UNIT.

- 1 DRAIN AND OVERFLOW DRAIN AMBIENT THERMOSTAT.
- 2 LOCATE FLUSH MOUNTED BOX WITH SINGLE GANG DUPLEX RECEPTACLE COVER AT 15" AFF CENTERED ON COLUMN.
- 3 FUTURE CCTV CABINET, SEE DETAIL B SHEET SE-5.
- 4 LOCATE RECEPTACLE FOR BUILT-IN MICROWAVE OVEN ABOVE KITCHENETTE COUNTER. LOCATE RECEPTACLE FOR REFRIGERATOR BELOW KITCHENETTE COUNTER, AND GFI RECEPTACLE ABOVE KITCHENETTE COUNTER. COORDINATE LOCATIONS WITH APPROVED KITCHENETTE SHOP DRAWINGS.
- 5 PROVIDE JUNCTION BOXES AND/OR RECEPTACLES AND ELECTRICAL WORK FOR AUTOMATIC SOLENOID OPERATED VALVES. PROVIDE ELECTRICAL WORK PER MANUFACTURER'S INSTRUCTIONS, CONCEALED LOW VOLTAGE WIRING SHALL BE INSTALLED IN RACEWAYS. EXPOSED LOW VOLTAGE WIRING SHALL BE INSTALLED IN SPLIT PLASTIC TUBES WITH 1'-0" INTERVALS. REFER TO DETAILS 'A', 'B', 'C', AND 'D' ON DRAWING EE-4.
- 6 1" CONDUIT WITH PULL WIRE TO TELEPHONE BOARD.
- 7 TO LIGHT FIXTURE IN MECHANICAL MEZZANINE MO2.
- 8 TO LIGHT FIXTURE IN MECHANICAL MEZZANINE MO1.
- 9 TO ATTIC LIGHT SWITCH IN MECHANICAL MEZZANINE MO1.
- 10 TO ATTIC LIGHT SWITCH IN MECHANICAL MEZZANINE MO2.
- 11 KEY OPERATED SWITCH FOR CLEANING EXHAUST FAN. REFER TO DETAIL 'A' THIS DRAWING.
- 12 CONNECT ELECTRICAL DAMPER OPERATOR FURNISHED AND INSTALLED BY OTHERS. REFER TO DETAIL 'A' THIS DRAWING.
- 13 INSTALL AND CONNECT OVERHEAD GRILLE OPERATOR CONTROL STATION FURNISHED BY OTHERS.
- 14 GENERATOR ANNUNCIATOR PANEL.
- 15 GUTTER FLECKE PROTECTION.
- 16 3 #18 JACKETED CABLE IN 3/4" CONDUIT TO SNOW MELT CONTROLLER.
- 17 WIP CAST JUNCTION BOX FOR POWER CONNECTION.
- 18 COORDINATE FINAL LOCATION OF ELECTRICAL EQUIPMENT WITH RESTROOM FLOOR DRYING DUCTWORK MAINTAIN NEC REQUIRED CLEARANCES.
- 19 ROOF DRAIN PIPING AND OVERFLOW ROOF DRAIN PIPING SHALL BE PROVIDED FREEZE PROTECTION. PROVIDE HEAT TAPE AT EACH LOCATION. CONNECT TO #2-42 PIPE INSULATION SHALL BE PROVIDED BY OTHERS. REFER TO DETAIL 'A' FOR EXTENT OF PIPING.
- 20 KIOSK PROVIDED BY OTHERS. PROVIDE TWO FLUSH FLOOR BOXES WITH BRASS COVERS WITH 1/2" DIA. ROUND REMOVABLE PLATE TO ACCESS DEVICES. PROVIDE ONE BOX WITH DUPLEX RECEPTACLE. PROVIDE OTHER BOX WITH TWO PROVISIONS FOR ONE TELEPHONE AND ONE DATA LINE. PROVIDE ONE 1/2" CONDUIT TO TERMINAL BOARD 'TB'. VERIFY LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- 21 DISPOSAL BY OTHERS.
- 22 INSTALL AND CONNECT THERMOSTAT FURNISHED BY OTHERS.
- 23 UNIT HEATER (BY MECHANICAL CONTRACTOR) 208V, 1N, 3.1 KW.
- 24 UNIT HEATER (BY MECHANICAL CONTRACTOR) 208V, 1N, 5.0 KW.
- 25 WIP JUNCTION BOX AT GRADE FOR IRRIGATION SYSTEM CONTROL WIRING. RUN 3/4" CONDUIT WITH PULL WIRE TO IRRIGATION CONTROL PANEL. COORDINATE REQUIREMENTS AND LOCATION WITH IRRIGATION CONTRACTOR.
- 26 DUPLEX RECEPTACLE FOR IRRIGATION CONTROL PANEL. COORDINATE REQUIREMENTS AND LOCATION WITH IRRIGATION CONTRACTOR.



19 ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL/ELECTRICAL/STRUCTURAL
S.R.A. INC.
SITE/CIVIL
KZF DESIGN, INC.
LANDSCAPE ARCHITECTURE:
KINZELMAN KLINE

NO.	DATE	DESCRIPTION
-----	------	-------------

[illegible]

OHIO DEPT. OF TRANSPORTATION

POWER PLAN - SOUTH SITE (EAST BOUND)

PROJECT NO. 770-2003-074
I/70 LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLOT DATE: 11/11/1988

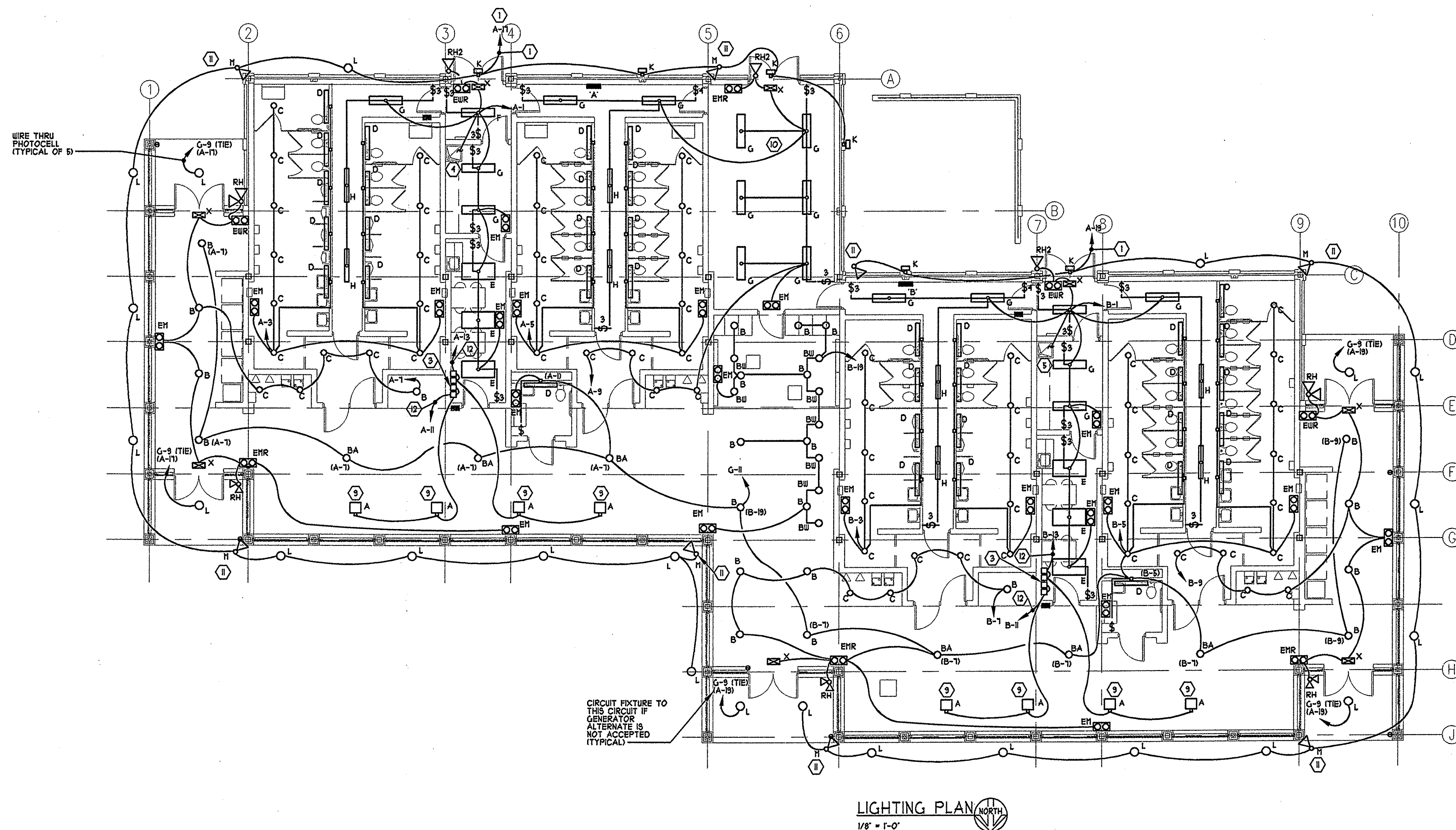
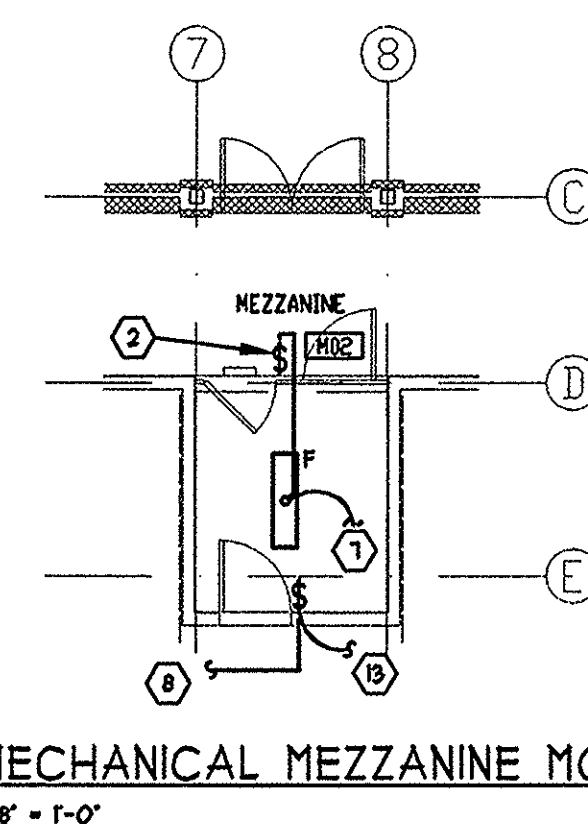
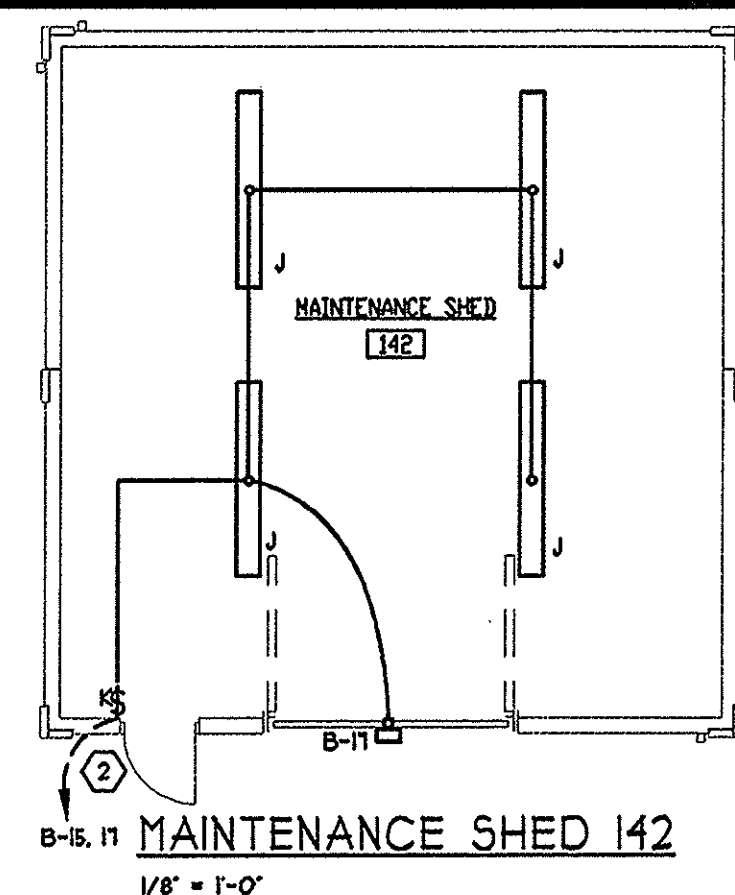
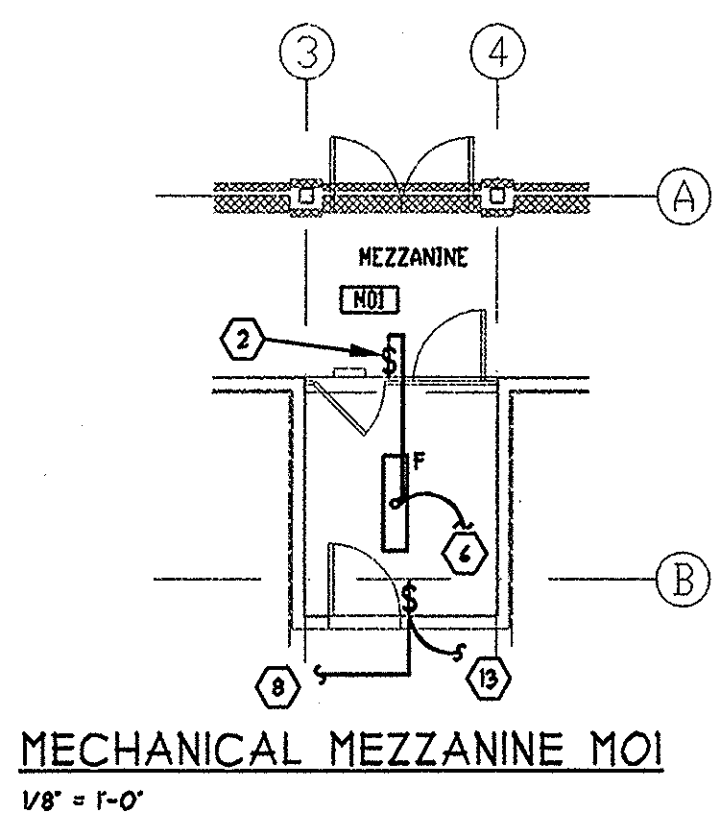
AUGUST 2004

DATE _____

AUGUST 2004

SE-1

BID/CONSTRUCTION SET



CODED NOTES

- 1 CA-1 CONTROLLED.
- 2 SWITCH AT BOTTOM OF LADDER.
- 3 REMOTE BALLAST FOR THE TYPE 'A' FIXTURES MOUNTED IN 30" X 30" X 10" NEHA JUNCTION BOX (VERIFY EXACT SIZE REQUIRED WITH BALLAST MANUFACTURER PRIOR TO PURCHASE). PROVIDE WITH MOUNTED PLATE AND 3 STANDARD VENTILATION GRILLES. MOUNT BALLASTS WITH 1" AIR GAP BETWEEN BALLAST AND MOUNTING PLATE. PROVIDE VIBRATION ISOLATION MOUNTING TO INSURE MINIMUM NOISE.
- 4 TO LIGHT FIXTURE IN MECHANICAL MEZZANINE MO1.
- 5 TO LIGHT FIXTURE IN MECHANICAL MEZZANINE MO2.
- 6 FROM RECEPTACLE IN MECHANICAL MEZZANINE MO1.
- 7 FROM RECEPTACLE IN MECHANICAL MEZZANINE MO2.
- 8 PROVIDE FOUR TYPE 'W' FIXTURES AND ONE TYPE 'EHS' FIXTURE IN ATTIC LOCATED AS REQUIRED.
- 9 FIXTURE SPACING IS DETERMINED BY MANUFACTURER. PRIOR TO ROUGH-IN SUBMIT PROPOSED SPACING DIMENSIONS AND PHOTOMETRIC DATA FOR APPROVAL. ROUGH-IN ONLY AFTER WRITTEN APPROVAL IS RECEIVED.
- 10 COORDINATE FIXTURE LOCATION WITH EQUIPMENT INSTALLATION.
- 11 REFER TO ROOF PLAN DRAWING A-12 FOR LOCATION OF TYPE 'T1' FIXTURE. FIXTURE PROVIDED AS ELECTRICAL WORK. MOUNTING STRUCTURE PROVIDED AS GENERAL WORK.
- 12 WIRE THROUGH DAY-LIGHT SENSOR LOCATION PER MANUFACTURERS RECOMMENDATION. PROVIDE SWITCHPACK AND/OR CONTROLLER (MOUNT IN BALLAST JUNCTION BOX. SEE CODED NOTE D AS RECOMMENDED BY MANUFACTURER. NOTIFYAS 01-PCL 13-031 AND 02-PCC OR EQUIVALENT BY LUTRON OR WATTSTOPPER.
- 13 FROM RECEPTACLE IN ATTIC. REFER TO DRAWING SE-1.

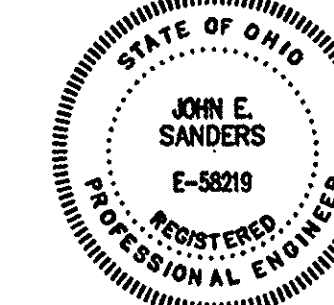
1/8" = 1'-0"

CONSULTING ARCHITECTS & ENGINEERS

ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL/ELECTRICAL/STRUCTURAL
S.R.A. INC.
SITE/CIVIL
KZF DESIGN, INC.
LANDSCAPE ARCHITECTURE
KINZELMAN KLINE

REVISIONS

NO. DATE DESCRIPTION



FOR:
OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
LIGHTING PLAN - SOUTH SITE (EAST BOUND)

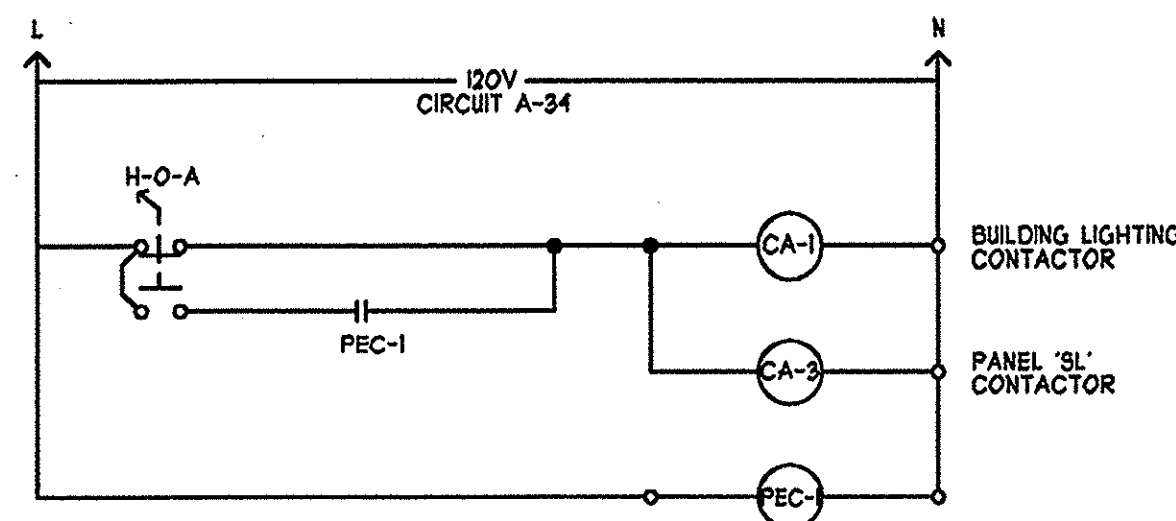
PROJECT NO. 770-2003-074
I/70 LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLOT DATE: AUGUST 2004
DATE: AUGUST 2004
SE-2

GENERAL NOTES

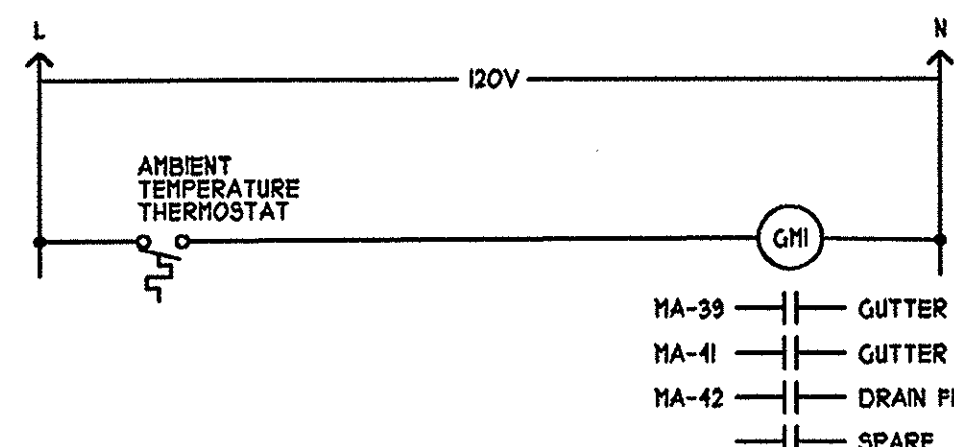
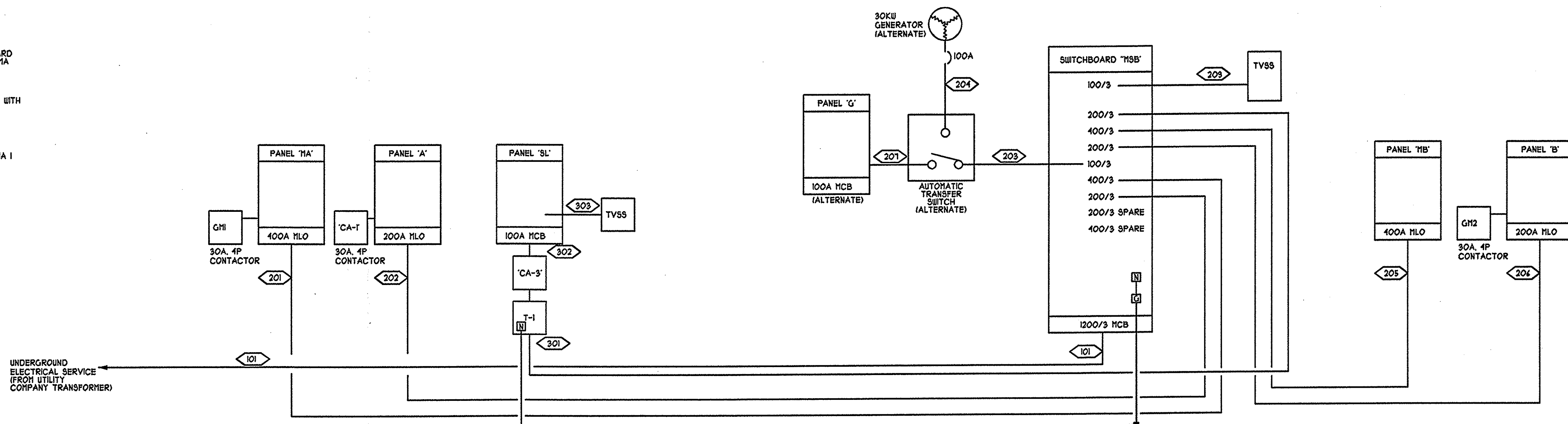
1. LIGHT FIXTURES SHALL BE INSTALLED EQUALLY SPACED, SYMMETRICALLY AND CENTERED WITHIN RESPECTIVE SPACES.
2. COORDINATE LOCATION OF LIGHT FIXTURES WITH ARCHITECTURAL DRAWINGS.
3. LIGHT FIXTURES SHALL BE INSTALLED THE SAME IN SIMILAR PLACES.



EXTERIOR LIGHTING CONTROL DIAGRAM

NOTES:

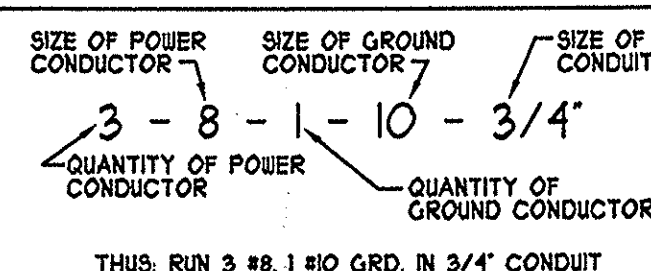
- HAND-OFF-AUTO SELECTOR SWITCH, THREE POSITION MAINTAINED, TWO POLE, STANDARD BLACK KNOB, "H-O-A" LEGEND PLATE, PROVIDE SELECTOR SWITCH MOUNTED IN A NEMA I ENCLOSURE ADJACENT TO CONTACTOR "CA-1".
- CONTACTOR "CA-1": 120V ELECTRICALLY HELD, 30A-4P, NEMA I ENCLOSURE.
- PHOTO-ELECTRIC CONTROL "PEC-1": TURN AND LOCK 120V PHOTO-ELECTRIC CONTROL WITH LOCKING TYPE RECEPTACLE MOUNTED TO END OF CONDUIT.
- "CA-1" CONTROLS CIRCUITS A-11 AND A-13.
- "CB-1" CONTROLS PANEL "SL".
- CONTACTOR "CA-3": 120V COIL, 400V CONTACTS, ELECTRICALLY HELD 100A-4P, NEMA I ENCLOSURE (CAN BE SUPPLIED IN PANEL AT CONTRACTOR'S OPTION).



GUTTER/DRAIN MELT CONTROL DIAGRAM-PANEL MA
N.T.S. (PANEL HB SIMILAR)

POWER DISTRIBUTION FEEDER SCHEDULE					
NO.	FROM	TO	OCF	SETS	CONDUCTORS/RACEWAY
101	SERVICE TRANSF	MSB	1200	3	4-400 (PARALLEL-4)
201	MSB	PANEL THA	400	1	4-500-1-3-3 1/2"
202	MSB	PANEL A	200	1	4-3/0-1-4-2"
203	MSB	ATS	100	1	4-3/0-1-10-1 1/2"
204	MSB	GEN	100	1	4-3/0-1-10-2"
205	MSB	PANEL THB	400	1	4-500-1-3-3 1/2"
206	MSB	PANEL B	200	1	4-3/0-1-4-2"
207	MSB	PANEL G	100	1	4-3/0-1-10-1 1/2"
208	MSB	TVSS	100	1	4-2-1-2-1 1/2"
209	MSB	TVSS	100	1	4-2-1-2-1 1/2"
210	MSB	TVSS	100	1	4-2-1-2-1 1/2"
211	MSB	TVSS	100	1	4-2-1-2-1 1/2"
301	MSB	XPHR T-I	200	1	4-3/0-1-4-2"
302	XPHR T-I	PANEL SL	100	1	3-1-1-8-1 1/2"
303	PANEL SL	TVSS	30	1	4-10-1-10-3/4"

POWER DISTRIBUTION FEEDER SCHEDULE KEY



BUILDING LOAD CALCULATION

	MOTORS	RECEPT	LIGHTING	HEATING	MISC.
PANEL MA	15184	0	0	80182	33190
PANEL MB	15313	0	0	80182	33190
PANEL A	1231	33190	10284	0	0
PANEL B	0	21339	1642	0	0
PANEL G	0	2240	1833	15800	0
PANEL SL	-	-	44200	-	-
TOTAL CONNECTED	31134	41389	4181	180184	44240
DEMAND FACTORS	4324	14101	1.00	0.80	1.00
TOTAL DEMAND	38042	28495	4181	144448	44240

* COOLING LOAD NOT USED FOR TOTALS. HEATING LOAD IS GREATER.
TOTAL CONNECTED LOAD 389150 / 340 = 1082.43 AMPS
TOTAL DEMAND LOAD = 34134 / 340 = 348.18 AMPS

1200 AMP SERVICE

POWER DISTRIBUTION DIAGRAM

SYSTEM VOLTAGE: 208Y/120V, 3Ø, 4W

NOTES:

- MSB: 45000 AIC FULLY RATED, COPPER BUS WITH SILVER PLATED CONNECTIONS, SERVICE ENTRANCE LABEL.

MECHANICAL EQUIPMENT WIRING SCHEDULE

MARK	NAME	VOLTS	PHASE	AMPS	KVA	CIRCUIT NO.	OCF	CONDUCTORS/RACEWAY	NOTES
EF-1	EXHAUST FAN	120	1	3.6	1.2	MB-35	20	2-12-1-12-3/4"	13
EF-2	EXHAUST FAN	120	1	5.8	1	MA-31	20	2-12-1-12-3/4"	14
EF-3	EXHAUST FAN	120	1	5.8	1	MA-31	20	2-12-1-12-3/4"	14
EF-4	EXHAUST FAN	120	1	5.8	1	MB-31	20	2-12-1-12-3/4"	14
EF-5	EXHAUST FAN	120	1	5.8	1	MB-31	20	2-12-1-12-3/4"	14
ERV-1	ENERGY RECOVERY VENT	208	1	33.3	4.925	MA-21/23	45	2-4-1-10-3/4"	1
ERV-2	ENERGY RECOVERY VENT	208	1	33.3	4.925	MA-25/21	45	2-4-1-10-3/4"	1
ERV-3	ENERGY RECOVERY VENT	208	1	33.3	4.925	MB-21/23	45	2-4-1-10-3/4"	1
ERV-4	ENERGY RECOVERY VENT	208	1	33.3	4.925	MB-25/21	45	2-4-1-10-3/4"	1
FCU-1	FAN COIL UNIT	208	1	41.5	8.1	MA-2/4	40	2-4-1-10-1"	2
FCU-2	FAN COIL UNIT	208	1	41.5	8.1	MA-2/4	40	2-4-1-10-1"	2
FCU-3	FAN COIL UNIT	208	1	41.5	8.1	MA-10/12	40	2-4-1-10-1"	2
FCU-4	FAN COIL UNIT	208	1	41.5	8.1	MA-14/16	40	2-4-1-10-1"	2
FCU-5	FAN COIL UNIT	208	1	41.5	8.1	MB-2/4	40	2-4-1-10-1"	2
FCU-6	FAN COIL UNIT	208	1	41.5	8.1	MB-4/8	40	2-4-1-10-1"	2
FCU-7	FAN COIL UNIT	208	1	41.5	8.1	MB-10/12	40	2-4-1-10-1"	2
FCU-8	FAN COIL UNIT	208	1	41.5	8.1	MB-14/16	40	2-4-1-10-1"	2
HP-1	HEAT PUMP	208	1	32.8	4.82	MA-18/20	50	2-4-1-10-3/4"	2
HP-2	HEAT PUMP	208	1	32.8	4.82	MA-22/24	50	2-4-1-10-3/4"	2
HP-3	HEAT PUMP	208	1	32.8	4.82	MA-24/28	50	2-4-1-10-3/4"	2
HP-4	HEAT PUMP	208	1	32.8	4.82	MA-30/32	50	2-4-1-10-3/4"	2
HP-5	HEAT PUMP	208	1	32.8	4.82	MB-18/20	50	2-4-1-10-3/4"	2
HP-6	HEAT PUMP	208	1	32.8	4.82	MB-22/24	50	2-4-1-10-3/4"	2
HP-7	HEAT PUMP	208	1	32.8	4.82	MB-24/28	50	2-4-1-10-3/4"	2
HP-8	HEAT PUMP	208	1	32.8	4.82	MB-30/32	50	2-4-1-10-3/4"	2
WH-1	WATER HEATER	208	1	24.5	5.5	MA-34/36	40	2-8-1-10-3/4"	2
WH-2	WATER HEATER	208	1	24.5	5.5	MA-38/40	40	2-8-1-10-3/4"	2
WH-3	WATER HEATER	208	1	24.5	5.5	MB-34/38	40	2-8-1-10-3/4"	2
WH-4	WATER HEATER	208	1	24.5	5.5	MB-38/40	40	2-8-1-10-3/4"	2
RCP-1	CIRC PUMP	120	1	0.45	0.055	A-18	20	2-12-1-12-3/4"	4
RCP-2	CIRC PUMP	120	1	0.45	0.055	A-18	20	2-12-1-12-3/4"	4

NOTES:

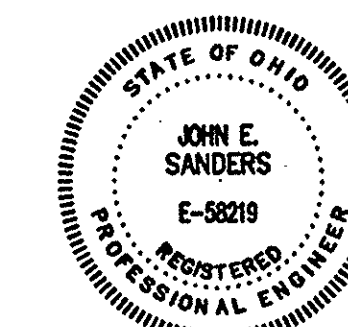
- UNIT DISCONNECT PROVIDED WITH EQUIPMENT. ELECTRICAL CONTRACTOR SHALL MAKE CONNECTION TO DISCONNECT.
- PROVIDE UNIT DISCONNECT AT EQUIPMENT. ELECTRICAL CONTRACTOR SHALL PROVIDE CONNECTION TO DISCONNECT AND PROVIDE FLEXIBLE CONDUIT AND WIRING CONNECTION TO EQUIPMENT.
- PROVIDE MOTOR STARTER WITH THERMAL OVERLOADS INTERCONNECTED WITH THERMOSTAT FURNISHED BY OTHERS. MOUNT STARTER IN MAINTENANCE BUILDING.
- PROVIDE MOTOR STARTER WITH THERMAL OVERLOAD, MOUNT STARTER IN MECHANICAL ROOM.

1/8" = 1'-0"

CONSULTING ARCHITECTS & ENGINEERS
ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL/ELECTRICAL/STRUCTURAL
S.R.A. INC.
SITE/OWNER:
KZF DESIGN, INC.
LANDSCAPE ARCHITECTURE:
KINZELMAN KLINE

REVISIONS

NO.	DATE	DESCRIPTION



FOR:
OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:
ELECTRICAL DIAGRAMS & SCHEDULES - SOUTH SITE (EAST BOUND)

PROJECT NO. 770-2003-074
170 LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY:
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLOT DATE: AUGUST 2004
DATE: AUGUST 2004
SE-3

AIC: 22,000
H INDICATES 'HACR' TYPE BREAKER
L INDICATES LOCKED ON BREAKER
G INDICATES GFI CIRCUIT BREAKER
BKR./SIZE INDICATES AMP5/POLE(S)

LOAD WATTS	WIRE SIZE	LOAD DESCRIPTION	BKR SIZE	CIRCUIT NUMBER	BKR SIZE	LOAD DESCRIPTION	WIRE SIZE	LOAD WATT				
2300	#10	HAND DRYERS MEN	G1	30/2	1	+	2	60/2	↓	H FCU-1	#4	4314
2300	#10				3	+	4		↓		#4	4314
2300	#10	HAND DRYERS MEN	G1	30/2	5	+	6	60/2	↓	H FCU-2	#4	4314
2300	#10				1	+	8		↓		#4	4314
2300	#10	HAND DRYERS WOMEN	G1	30/2	9	+	10	60/2	↓	H FCU-3	#4	4314
2300	#10				13	+	14		↓		#4	4314
2300	#10	HAND DRYERS WOMEN	G1	30/2	13	+	14	60/2	↓	H FCU-4	#4	4314
2300	#10				15	+	16		↓		#4	4314
1150	#10	HAND DRYERS FAMILY	G1	30/2	11	+	18	50/2	↓	H HP-1	#4	3410
1150	#10				19	+	20		↓		#4	3410
3443	#4	ERV-1	H	45/2	21	+	22	50/2	↓	H HP-2	#4	3410
3443	#4				23	+	24		↓		#4	3410
3443	#4	ERV-2	H	45/2	25	+	26	50/2	↓	H HP-3	#4	3410
3443	#4				27	+	28		↓		#4	3410
0	-	SPARE		20/1	29	+	30	50/2	↓	H HP-4	#4	3410
0	-	SPARE		20/1	31	+	32		↓		#4	3410
1000	#12	POWER OPER. DOOR		20/1	33	+	34	40/2	↓	WH-1	#8	2180
1000	#12	POWER OPER. DOOR		20/1	35	+	36		↓		#8	2180
140	#10	EF-4		20/1	37	+	38	40/2	↓	WH-2	#8	2180
140	#10	GUTTER FRZ	G2	30/2	39	+	40		↓		#8	2180
140	#10				41	+	42	20/1	↓	ROOF DRAIN FRZ	G2	450

HVAC WATTS
 MOTOR WATTS
 RECEPTACLE WATTS
 MISC. WATTS
 WATER HEATER WATTS
 TOTAL CONNECTED WATTS
 TOTAL CONNECTED AMPS
 (BALANCED)

GI: 5 MA TRIP LEVEL } COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER
G2: 30 MA TRIP LEVEL }

AIC: 22,000
H INDICATES 'HACR' TYPE BREAKER
L INDICATES LOCKED ON BREAKER
G INDICATES GFI CIRCUIT BREAKER
BKR/SIZE INDICATES AMP(S)/POLE(S)

LOAD WATTS	WIRE SIZE	LOAD DESCRIPTION	BKR SIZE	CIRCUIT NUMBER	BKR SIZE	LOAD DESCRIPTION	WIRE SIZE	LOAD WATTS			
2300	#10	HAND DRYERS MEN	G1	30/2	1	2	60/2	H FCU-5	#4	434	
2300	#10			3	1	4			#4	434	
2300	#10	HAND DRYERS MEN	G1	30/2	5	4	60/2	H FCU-4	#4	434	
2300	#10			1	1	8			#4	434	
2300	#10	HAND DRYERS WOMEN	G1	30/2	9	1	10	60/2	H FCU-1	#4	434
2300	#10			13	1	12			#4	434	
2300	#10	HAND DRYERS WOMEN	G1	30/2	13	1	40/2	H FCU-8	#4	434	
2300	#10			15	1	14			#4	434	
150	#10	HAND DRYERS FAMILY	G1	30/2	17	1	18	50/2	H HP-5	#6	3410
150	#10			19	1	20			#6	3410	
3443	#6	ERV-3	H	40/2	21	1	22	50/2	H HP-6	#6	3410
3443	#6			23	1	24			#6	3410	
3443	#6	ERV-4	H	40/2	25	1	26	50/2	H HP-1	#6	3410
3443	#6			27	1	28			#6	3410	
300	#12	SNOW MELT CONTROLS		20/1	29	1	30	50/2	H HP-8	#6	3410
1200	#12	OVERHEAD GRILLE		20/1	31	1	32		#6	3410	
1000	#12	POWER OPER. DOOR		20/1	33	1	34	40/2	WH-3	#8	2150
1021	#12	EPI-1		20/1	35	1	36		#8	2150	
1334	#12	EPI-5		20/1	37	1	38	40/2	WH-4	#8	2150
140	#10	GUTTER FRZ	G2	30/2	39	1	40		#8	2150	
140	#10			41	1	42	20/1	ROOF DRAIN FRZ	G2	#12	450

HVAC WATTS
 MOTOR WATTS
 RECEPTACLE WATTS
 MISC. WATTS
 WATER HEATER WATTS
 TOTAL CONNECTED WATTS
 TOTAL CONNECTED AMPS
 (BALANCED)

GI: 5 MA TRIP LEVEL } COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER
G2: 30 MA TRIP LEVEL }

AIC: 22,000
H INDICATES 'HACR' TYPE BREAKER
L INDICATES LOCKED ON BREAKER
G INDICATES GFI CIRCUIT BREAKER
BKR./SIZE INDICATES AMPS/POLE(S)

LOAD WATTS	WIRE SIZE	LOAD DESCRIPTION	BKSR SIZE	CIRCUIT NUMBER	BKSR SIZE	LOAD DESCRIPTION	WIRE SIZE	LOAD WATTS	
1250	#12	BREAK/SERV/FAMILY/1JAN LTG	20/1	1 + 1	2	20/1	EXTERIOR/STOR REC	#12	1080
1152	#12	MEN LTG	20/1	3 + 1	4	20/1	SERVICE/HEN/WOMEN REC	#12	1260
1222	#12	WOMEN LTG	20/1	5 + 1	6	20/1	SPARE	-	0
840	#12	VENDING, HAF. LOBBY LTG	20/1	1 + 8	8	20/1	VEND/HEN REC	#12	900
1356	#12	WOMENS RR, NECH ROOM	20/1	9 + 1	10	20/1	LOBBY REC	#12	1200
960	#12	LOBBY LTG	20/1	11 + 1	12	20/1	SPARE	-	0
360	#12	LOBBY LTG	20/1	13 + 1	14	20/1	SPARE	-	0
540	#12	LOBBY/WOMENS RR	20/1	15 + 1	16	20/1	EUC	#12	1000
2230	#10	EXTERIOR, CUPOLA LTG	30/1	17 + 1	18	20/1	RCP-1 I RCP-2	#12	10
2230	#10	EXTERIOR, CUPOLA LTG	30/1	19 + 1	20	20/1	SPARE	-	0
0	-	SPARE	30/1	21 + 1	22	20/1	SPARE	-	0
0	-	SPARE	30/1	23 + 1	24	20/1	VENDING MACHINE REC	#12	1000
540	#12	LOBBY REC	20/1	25 + 1	26	20/1	VENDING MACHINE REC	#12	1000
1200	#12	MICROWAVE	20/1	27 + 1	28	20/1	VENDING MACHINE REC	#12	1000
1000	#12	KITCHENETTE/REFRIG	20/1	29 + 1	30	20/1	VENDING MACHINE REC	#12	1000
1121	#12	DISPOSAL	20/1	31 + 1	32	20/1	VENDING MACHINE REC	#12	1000
460	#12	MEZZ/ATTIC REC 1 LTG	20/1	33 + 1	34	20/1	LIGHTING CONTROLS	#12	200
500	#12	GEN BATTERIES, CONTROL	20/1	35 + 1	36	20/1	EXTERIOR KIOSK	#10	1000
2000	#10	GEN HEATER	30/2	37 + 1	38	20/1	SPARE	-	0
0	-	SPARE	30/1	39 + 1	40	20/1	SERVICE TRAILER REC	#8	1500
2000	#10	SPARE	20/1	41 + 1	42	20/1	SERVICE TRAILER REC	#8	1500

HVAC WATTS
MOTOR WATTS
RECEPTACLE WATTS
LIGHTING WATTS
WATER HEATER WATTS
TOTAL CONNECTED WATT.
TOTAL CONNECTED AMPS
(BALANCED)

AIC: 22,000
H INDICATES 'HACR' TYPE BREAKER
L INDICATES LOCKED ON BREAKER
G INDICATES GFI CIRCUIT BREAKER
BKR/SIZE INDICATES AMPS/POLE(S)

LOAD WATT	WIRE WATT	LOAD DESCRIPTION	BKR WATT	CIRCUIT NUMBER	BKR WATT	LOAD DESCRIPTION	WIRE WATT	LOAD WATT
1250	#12	MECH/SERV/JAN LTG	20/1	1	2	20/1	EXTERIOR 1 STOR REC	#12 1080
152	#12	MEN LTG	20/1	3	4	20/1	SERVICE/MEN/WOMEN REC	#12 120
822	#12	WOMEN LTG	20/1	5	6	20/1	SPARE	- 0
915	#12	VEST. MAP. LOBBY LTG	20/1	1	8	20/1	VEND/WOMEN	#12 300
583	#12	VENDING/VEST LTG	20/1	9	10	20/1	LOBBY/MEN REC	#12 300
960	#12	LOBBY LTG	20/1	11	12	20/1	TELEPHONE BOARD REC	#12 180
130	#12	LOBBY LTG	20/1	13	14	20/1	IRIGATION SYSTEM	#12 145
410	#12	HAINT. SHED LTG	20/1	15	16	20/1	BISC	#12 100
500	#12	CCTV (FUTURE)	20/1	11	18	20/1	DISPOSAL	#12 121
950	#12	DISPLAY LTG	20/1	19	20	20/1	KITCHENETTE/REFRIG	#12 1000
120	#12	MAINTENANCE SHED REC	20/1	21	22	20/1	MICROGAUSE REC	#12 1200
100	#12	EQC REC	20/1	23	24	20/1	VENDING MACHINE	#12 1000
540	#12	EQC REC	20/1	25	26	20/1	VENDING MACHINE	#12 1000
1200	#12	MICROGAUSE	20/1	27	28	20/1	VENDING MACHINE	#12 1000
1000	#12	KITCHENETTE/REFRIG	20/1	29	30	20/1	VENDING MACHINE	#12 1000
121	#12	DISPOSAL	20/1	31	32	20/1	VENDING MACHINE	#12 1000
460	#12	HEAT/ATZT REC 1 LTG	20/1	33	34	20/1	HECH ROOM, DISPLAY REC	#12 300
0	-	SPARE	20/1	35	36	20/1	DISPLAY REC	#12 120
0	-	SPARE	20/1	37	38	20/1	SPARE	- 0
0	-	SPARE	20/1	39	40	20/1	SPARE	- 0
0	-	SPARE	20/1	41	42	20/1	SPARE	- 0

HVAC WATTS
 MOTOR WATTS
 RECEPTACLE WATTS
 LIGHTING WATTS
 WATER HEATER WATTS
 TOTAL CONNECTED WATTS
 TOTAL CONNECTED AMPS
 (BALANCED)

H INDICATES 'HACR' TYPE BREAKER
L INDICATES LOCKED ON BREAKER
G INDICATES GFI CIRCUIT BREAKER
BKR./SIZE INDICATES AMPS/POLE(S)

* REFER TO SITE LIGHTING PLANS FOR WIRE SIZE

LOAD WATTS	WIRE SIZE	LOAD DESCRIPTION	BKR SIZE	CIRCUIT NUMBER	BKR SIZE	LOAD DESCRIPTION	WIRE SIZE	LOAD WATTS
2100	*		2/3	2			*	2100
2100	*	HIGH MAST LIGHTING	2/3	3	2/3	HIGH MAST LIGHTING	*	2100
1800	*		5	4			*	1800
2300	*		7	8			*	2300
3300	*	PARKING LOT LIGHTING	2/3	9	2/3	PARKING LOT LIGHTING	*	3300
3300	*		11	12			*	1100
1400	*		13	14	20/1	TREE LIGHTING	*	2300
1400	*	PARKING LOT LIGHTING	2/3	15	20/1	TREE LIGHTING	*	2300
1400	*		17	18	20/1	TREE LIGHTING	*	2300
2500	*	PEDESTRIAN LIGHTING	30/1	19	20/1	SPARE	-	0
0	-	SPARE	20/1	21	22	SPARE	-	0
0	-	SPARE	20/1	23	24	SPARE	-	0
0	-	SPARE	20/1	25	24	SPARE	-	0
0	-	SPARE	20/1	21	28	30/3	TVSS	0
0	-	SPARE	20/1	29	30		W/O	0

RECEPTACLE WATTS
LIGHTING WATTS
TOTAL CONNECTED WATT
TOTAL CONNECTED AMPS
(BALANCED)

AIC: 22,000
H INDICATES 'HACR' TYPE BREAKER
L INDICATES LOCKED ON BREAKER
G INDICATES GFI CIRCUIT BREAKER
BKR./SIZE INDICATES AMPS/POLE(S)

LOAD WATTS	WIRE SIZE	LOAD DESCRIPTION	BKR SIZE	CIRCUIT NUMBER	BKR SIZE	LOAD DESCRIPTION	WIRE SIZE	LOAD WATTS
100	#12	WATER VALVES	20/1	1	2	25/2	↑ UNIT HEATER	#10 1850
1080	#12	FAMILY RESTROOM	20/1	3	4	25/2	↑ UNIT HEATER	#10 1850
100	#12	WATER VALVES	20/1	5	6	25/2	↑ UNIT HEATER	#10 1850
1080	#12	FAMILY RESTROOM	20/1	11	12	25/2	↑ UNIT HEATER	#10 1850
423	#12	EXT DOOR LIGHTS	20/1	3	10	25/2	↑ UNIT HEATER	#10 1850
1208	#12	LIGHTING	20/1	11	12	25/2	↑ UNIT HEATER	#10 1850
O	-	SPARE	20/1	13	14	25/2	↑ UNIT HEATER	#10 1850
O	-	SPARE	20/1	15	16	25/2	↑ UNIT HEATER	#10 1850
O	-	SPARE	20/1	18	19	35/2	↑ UNIT HEATER	#8 2500
O	-	SPARE	-	19	20	-	-	#8 2500
O	-	SPARE	-	21	22	-	SPACE	- O
O	-	SPARE	-	23	24	-	SPACE	- O
O	-	SPARE	-	25	26	-	SPACE	- O
O	-	SPARE	-	27	28	-	SPACE	- O
O	-	SPARE	-	29	30	-	SPACE	- O

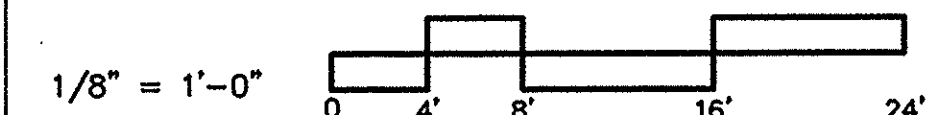
HVAC WATTS
MOTOR WATTS
RECEPTACLE WATTS
LIGHTING WATTS
WATER HEATER WATTS
TOTAL CONNECTED WATT
TOTAL CONNECTED AMP
(BALANCED)

GI: 5 MA TRIP LEVEL } COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER

DESIGNATION	LOCATION	KVA	PRIMARY VOLTAGE	SECONDARY VOLTAGE	MOUNTING
T-1	ADJACENT TO PANEL 'S1'	15	208V. 3 ϕ . 3W	480Y/277V. 3 ϕ . 4W	FLOOR MOUNTED

NOTES:

I. T-1: UL CLASS 220°C INSULATION SYSTEM, 150°C TEMPERATURE RISE UNDER FULL LOAD.



CONSULTING ARCHITECTS & ENGINEERS

ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL/ELECTRICAL/STRUCTURAL
S.R.A. INC.
SITE/CIVIL
KZF DESIGN, INC.
LANDSCAPE ARCHITECTURE:
KINZELMAN KLINE

REVISIONS

[illegible]

FOR:

OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:

ELECTRICAL SCHEDULES - SOUTH SITE (EAST BOUND)

PROJECT NO. 770-2003-074

1/70 LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION

PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLOT DATE

AUGUST 2004

DATE

AUGUST 2004

SE-4

BID/CONSTRUCTION SET

SYMBOL LEGEND

SYMBOL	HTG	DESCRIPTION
		WIRING IN CONDUIT.
		WIRING IN CONDUIT IN SLAB OR BELOW GRADE.
		CIRCUIT CONDUIT HOSIERY TO PANEL. LETTER INDICATES PANEL DESIGNATION. NUMBERS INDICATE CIRCUIT NUMBERS.
	48' AFF	SWITCH, SINGLE POLE, 20 AMP, 120V. K = KEY OPERATED.
	48' AFF	SWITCH, THREE-WAY, 20AMP, 120V. K = KEY OPERATED.
	48' AFF	MANUAL MOTOR STARTING SWITCH, SPST, 120 WITH THERMAL OVERLOAD.
	18' AFF	DUPLEX RECEPTACLE, GROUNDING TYPE, 20 AMP, 125 VOLT, 3 WIRE. F = FLOOR MOUNTED.
	18' AFF	DOUBLE DUPLEX RECEPTACLE, GROUNDING TYPE, 20 AMP, 125 VOLT, 3 WIRE.
	18' AFF	ARROW INDICATES OUTLET ON DEDICATED CIRCUIT.
	AS NOTED	DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER, 20 AMP, 125 VOLT, 3 WIRE. UP=UPPER, DOWN=DOWN.
	18' AFF	TELEPHONE OUTLET, 4" SQUARE, FLUSH MOUNTED BOX WITH SINGLE GANG BLANK COVER PLATE. P = PUBLIC PHONE • 48' AFF V = VENDING.
	18' AFF	DATA OUTLET, 4" SQUARE, FLUSH MOUNTED BOX WITH SINGLE GANG BLANK COVER PLATE. F = FLOOR MOUNTED.
	18' AFF	CABLE OUTLET, 4" SQUARE, FLUSH MOUNTED BOX WITH SINGLE GANG BLANK COVER PLATE. F = FLOOR MOUNTED.
	AS NOTED	JUNCTION BOX, MOUNTING HEIGHT AND SIZE AS REQUIRED OR AS INDICATED.
	CLG	OUTLET BOX IN OR ABOVE CEILING, OUTLET BOX IN WALL, SIZE AND TYPE AS REQ'D.
	3'	PROVIDE WHITE RECESSED ELECTRIC HAND DRYER, TOUCHLESS AUTOMATIC OPERATION, WORLD DRYER MODEL # XRA53-314A, 208V-1A-2300W. MOUNTING HEIGHT IS FROM FINISHED FLOOR TO BOTTOM OF DRYER. MAINTAIN 2'-0" BETWEEN DRYERS.
		POWER OPERATED DOOR-VERIFY POWER AND CONNECTION REQUIREMENTS.
		PUSH PLATE SWITCH FOR POWER OPERATED DOOR, FURNISHED BY GC, INSTALLED AND WIRED BY EC.
		OUTLET BOX FOR FUTURE CLOSED CIRCUIT TELEVISION CAMERA.
		REFER TO NOTE

ABBREVIATIONS

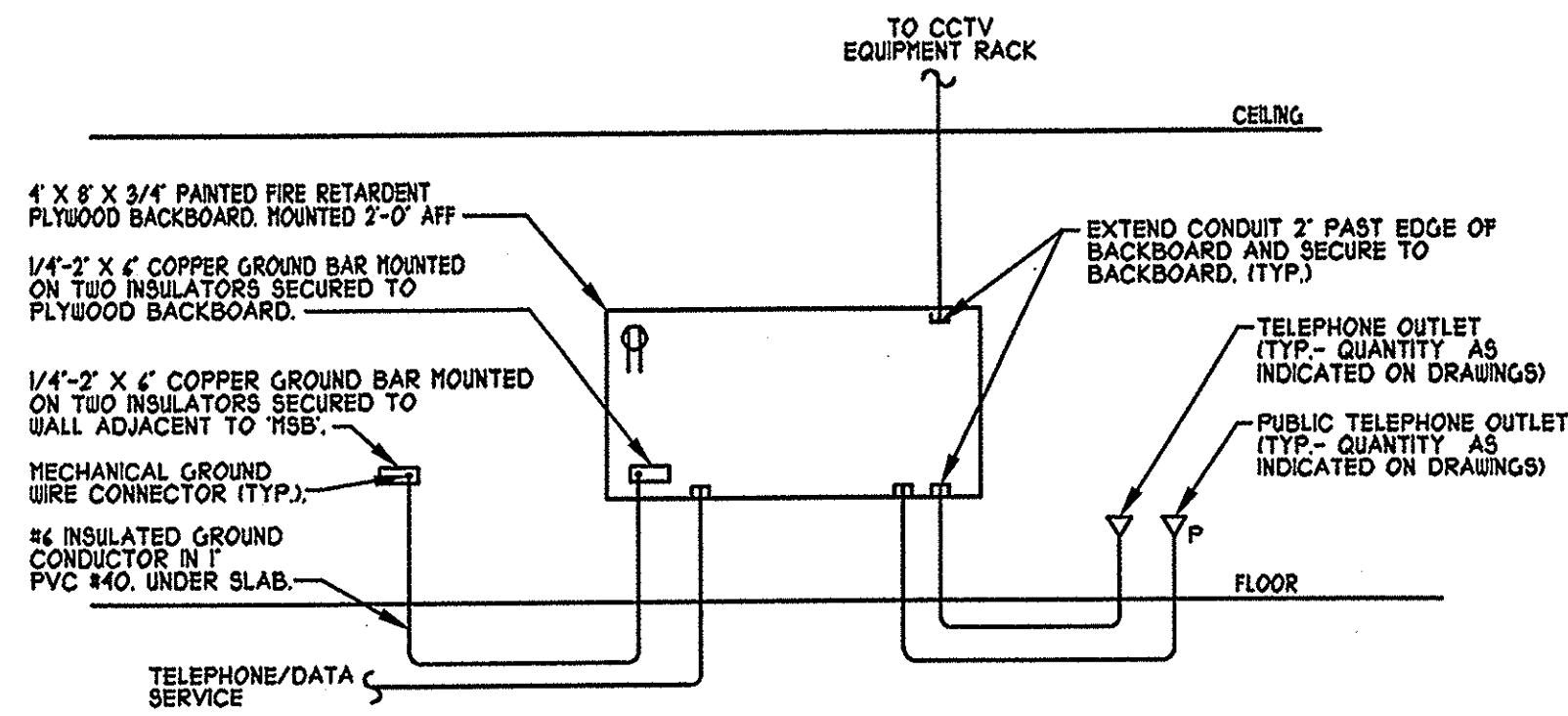
A	AMPERE
AC	ALTERNATING CURRENT
AF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
AMP	AMPERE
ARCH	ARCHITECTURAL
BKR	BREAKER
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CCT	CIRCUIT
CLG	CEILING
CTRL	CONTROL
D	DEPTH
DC	DIRECT CURRENT
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EUC	ELECTRIC WATER COOLER
FT	FEET, FOOT
G	GROUND
GC	GENERAL CONTRACTOR
GRD	GROUND
H	HEIGHT
HTR	HEATER
HVAC	HEATING, VENTILATION, AIR CONDITIONING
JB	JUNCTION BOX
KVA	KILO-VOLT-AMPERE
KV	KILO-VOLT
KW	KILO-WATT
LTG	LIGHTING
LTS	LIGHTS
MCS	MAIN CIRCUIT BREAKER
MECH	MECHANICAL
MN	MINIMUM
MLO	MAIN LUG ONLY
MTD	MOUNTED
HTD	HUNG
N	NEUTRAL
NO	NUMBER
OC	ON CENTER
PEC	PHOTO ELECTRIC CONTROL
PNL	PANEL
PWR	POWER
REC	RECEPTACLE
REC	RECESSED
REQ'D	REQUIRED
STR	STARTER
SURF	SURFACE
TB	TERMINAL BOARD
TC	TIME CLOCK
TELE	TELEPHONE
TV	TELEVISION
TYP	TYPICAL
UNO	UNLESS OTHERWISE INDICATED
UNO	UNLESS OTHERWISE NOTED
V	VOLTS
V	VENDING
VA	VOLT-AMPERE
W	WIDTH

LIGHTING FIXTURE SCHEDULE

TYPE	HTG	DESCRIPTION	LAMPS	WATTS	VOLTS	CATALOG NO.	CATALOG NO.	CATALOG NO.	CATALOG NO.	CATALOG NO.
A	11'-0"	WALL MOUNTED ADJUSTABLE INDIRECT METAL HALIDE WITH REMOTE BALLAST.	1-400W	440	120	WILSON #PH-LSH-400-LSI-SGW	WILSON #TH882-RCB-1-1-FINISH	FORUM #QWA-400MH-1-A-S	ELIPTAR #H16-1400Z-02-A-VO-0	ORGATECH/OMEGAUX #X2400MH-1-Y-C-A-3-0 (WEDGE ENCLOSURE)
B	CLG REC	8" DIA. COMPACT FLUORESCENT DOWNLIGHT WITH CLEAR ALZAK REFLECTOR CONE.	2-42W CF42/TRT	90	120	INDY #110R-42I-SAC	LITHONIA #AF-2/42TRT-8AR-120	PORTFOLIO #PD8-HU232E-8HC	PRESCOLITE #CFTD832HEB-STFDB02H-B24	OMEGA LIGHTING #O182H42PLT-11UW-CS-120/271
BU	CLG REC	8" DIA. COMPACT FLUORESCENT WALL WASHER WITH CONCAVE LENS AND CLEAR ALZAK REFLECTOR.	1-42W CF42/TRT	45	120	INDY #310R-42I-SAC	LITHONIA #DFW-1/42TRT-1A5L-120	PORTFOLIO #CT1942E-193LI	COLUMBIA LIGHTING #CFTU832EB-ST42-B24	OMEGA LIGHTING #O182H42PLT-11UW-CS-120/271
BA	CLG REC	8" DIA. COMPACT FLUORESCENT DOWNLIGHT WITH CLEAR ALZAK REFLECTOR CONE AND SLOPE CEILING HOUSING.	2-42W CF42/TRT	90	120	INDY #110R-42I-SAC w/ SLOPE CEILING HOUSING	LITHONIA #AF-2/42TRT-8AR-120 w/ SLOPE CEILING HOUSING	PORTFOLIO #PD8-HU232E-8HC w/ SLOPE CEILING HOUSING	PRESCOLITE #CFTD832HEB-STFDB02H-B24 w/ SLOPE CEILING HOUSING	OMEGA LIGHTING #O182H42PLT-11UW-CS-120/271 w/ SLOPE CEILING HOUSING
C	CLG REC	1" DIA. RECESSED COMPACT FLUORESCENT DOWNLIGHT WITH REGRESSED CONCAVE PRISMATIC LENS & WHITE SPLAY TRIM.	1-42W CF42/TRT	45	120	INDY #410R-42IE-PPL	LITHONIA #LGFV-42TRT-1RW CHL-120	SPECTRUM #SPTVF-42-I-US-120PG	PRESCOLITE #CFT832EB-UTF804-SL-B24	CAPRI LIGHTING #CH83-FV226/32/42U-V8F
D	1'-4" AFF	1" X 4" WALL MOUNTED FLUORESCENT VANDAL RESISTANT FIXTURE WITH WHITE POLYCARBONATE LENS & PERIMETER PAINT.	2-32W F32/T8	64	120	C.D. LIGHTING #VWA-4-232-120-EB	KENALL #MLHAB-48-R-X-CP-232-EBI-120	FAIL-SAFE #FS-RU-PP-64-A	MORLITE #PLP3000-232-120	LEGION LIGHTING #18-232-UBP-EB0-WL
E	CLG SURF	2" X 4" SURFACE MOUNTED MODULAR FLUORESCENT WITH FLAT STEEL DOOR, 125" ACRYLIC PRISMATIC LENS & TWO CIRCUIT WIRING.	4-32W F32/T8	128	120	HUBBELL #SSD4CA02B5	LITHONIA #2HC-432-A125-120-GB	METALUX #2HC-432-A125-120-EB8I	COLUMBIA LIGHTING #3M24-432-F9A125-4EB8I20	DAYBRITE LIGHTING #25M432-F32-120-1/4EB
F	CLG SURF	2" X 4" SURFACE MOUNTED FLUORESCENT WITH WRAPAROUND ACRYLIC PRISMATIC LENS.	2-32W F32/T8	64	120	HUBBELL #H232B	LITHONIA #5B-232-120-GB	METALUX #5B-232A-120-EB8I	COLUMBIA LIGHTING #5M24-232-EB8I20	DAYBRITE LIGHTING #06N232-120-1/2EB
G	BOTTO M 12'-0"	1" X 4" CHAIN SUSPENDED INDUSTRIAL FLUORESCENT FIXTURE WITH APERTURED REFLECTOR.	2-32W F32/T8	64	120	HUBBELL #IG12RPP10B	LITHONIA #LA-232-120-GB	METALUX #LA-232-120-EB8I	COLUMBIA LIGHTING #5SR4-232-EB8I20	DAYBRITE LIGHTING #FD232-PP-120-1/2EB
H	AS REQ'D	1 FT. OPEN STRIP FLUORESCENT.	2-32W F32/T8	64	120	HUBBELL #C232B	LITHONIA #C-232-120-GB	METALUX #C-232-120-EB8I	COLUMBIA LIGHTING #C54-232-EB8I20	DAYBRITE LIGHTING #T232-120-1/2EB
J	CLG SURF	8 FT. TANDEM INDUSTRIAL FLUORESCENT FIXTURE WITH FIBER GLASS HOUSING, ACRYLIC LENS & 1" LOW TEMP. BALLAST.	4-32W F32/T8	128	120	HUBBELL #EUL084IR-SPDR-BI	LITHONIA #TVRI-432-120-CU-1/4-TUBI	METALUX #TVT2-232-120-EB8I-DR-Z	COLUMBIA LIGHTING #LUN4-232-EB8I20	DAYBRITE LIGHTING #TD6AE232-120-1/4LT
K	9'-0" AFF	METAL HALIDE WALLPACK WITH POLYCARBONATE HOUSING.	1-100W H100	125	120	HUBBELL #PVL-100H-128-L	LITHONIA #TUA-100H-120-LPI	LUXARK #MHWP-100H-MT	SPALDING-WHITEWAY #MRK-H100-120	DAYBRITE LIGHTING #EL5100HMT-LP
L	CLG REC	RECESSED OUTDOOR METAL HALIDE LOW PROFILE DOWNLIGHT WITH FRESNEL LENS AND DIE CAST TRIM.	1-100W H100	125	120	STERNER #5RR-555-100MH-120-WH-DJ	KENALL #MR1RPSR/CC-C-XX-100M-1-120	USAL #503H-100MH-120-XXX	REBELLE LIGHTING #212H-100H	GARCO LIGHTING #220-F-100MH-120-BRP
M	ARCH DETAIL	METAL HALIDE ADJUSTABLE SPOT LIGHT	1-100W H100/PAR30/3P	100	120	STERNER #VEBD-L100H-C-YK-WH	HYDREL #4630-P3010H-120-55B345-FINISH	BK #SE-42-XXX-3-B-PC10-120	A.A.L. #0SR-10T4-120	GARCO LIGHTING #0SP1-J-PAR38-101H-120-BLP
T	SURF HTD	3 1/4" x 5 1/2" VANDAL RESISTANT BRICK SHAPED LIGHT WITH CLEAR PRISMATIC LENS, COMPACT FLUORESCENT TRIPLE TUBE LAMP.	1-3CFT2U	32	120	CD LIGHTING #VWP-5-2-13-120-NB-HP-COLOR	LITHONIA #VR2BH-32TRT-120-LPI	FAIL-SAFE #CTBC-HE-32H-120-LL	WF HARRIS LIGHTING #80-52PLT-HPF-120-LP-C4	DAYBRITE #CST-C-32C-COLOR
X	ABOVE DOOR	LED EXIT SIGN WITH DIE CAST ALUMINUM HOUSING, STENCIL FACE, RED LETTERS, EMERGENCY BATTERY AND SELF DIAGNOSTICS.	LED	10	120	HUBBELL #CUPRALSD	LITHONIA #LE-S-W-1-R-ELN-SD	DUAL LITE #LCSRUE-1	DAYBRITE LIGHTING #ERESLI2/21R	
EH	CLG REC	RECESSED EMERGENCY LIGHTING UNIT WITH TWIN HEADS, AND MAINTENANCE FREE LONG LIFE LEAD BATTERY AND SELF DIAGNOSTICS.	2-8W PAR34	25	120	HUBBELL #CL-6-25-2P8ID	LITHONIA #ELR4-SD	DUAL LITE #TB-5-I	DAYBRITE LIGHTING #ER4L8U-PSUC	
EHR	CLG REC	RECESSED EMERGENCY LIGHTING UNIT WITH TWIN HEADS, AND MAINTENANCE FREE LONG LIFE LEAD BATTERY, REMOTE CAPACITY AND SELF DIAGNOSTICS.	2-8W PAR34	36	120	HUBBELL #CL-6-36-2P8I-D	LITHONIA #ELR4-SD	DUAL LITE #TB-30-I	DAYBRITE LIGHTING #ER4L250-PSUC	
EHS	WALL	SURFACE MOUNTED EMERGENCY LIGHTING UNIT WITH TWIN HEADS, MAINTENANCE FREE LONG LIFE LEAD BATTERY, REMOTE CAPACITY & SELF DIAGNOSTICS.	2-12W PAR34	25	120	HUBBELL #PE6-25-2R3I-D w/REMOTE CAPACITY FOR (2) HEADS	LITHONIA #ELR4-SD	DUAL LITE #LM40I	MC PHILBEN #CTX4L24U-CSWC PROVIDE REMOTE CAPACITY MODELS	
RH	CLG SURF	TWIN WEATHERPROOF EMERGENCY LIGHTING REMOTE HEADS.	2-12W	14.4	6	HUBBELL (2) #2P6-1-6-B-MPUP2	LITHONIA #2ELA-T-NX-H08I2	DUAL LITE #REMP042	WHERE SHOWN DAYBRITE LIGHTING (2) #PMH-MP2TU-WP	
RH2	CLG SURF	SINGLE WEATHERPROOF EMERGENCY LIGHTING REMOTE HEAD.	1-12W	1.2	6	HUBBELL #2P6-1-6-B-MPUP2	LITHONIA #ELA-T-NX-H08I2	DUAL LITE #REMP042	DAYBRITE LIGHTING #PMH-MP2TU-WP	

NOTES:

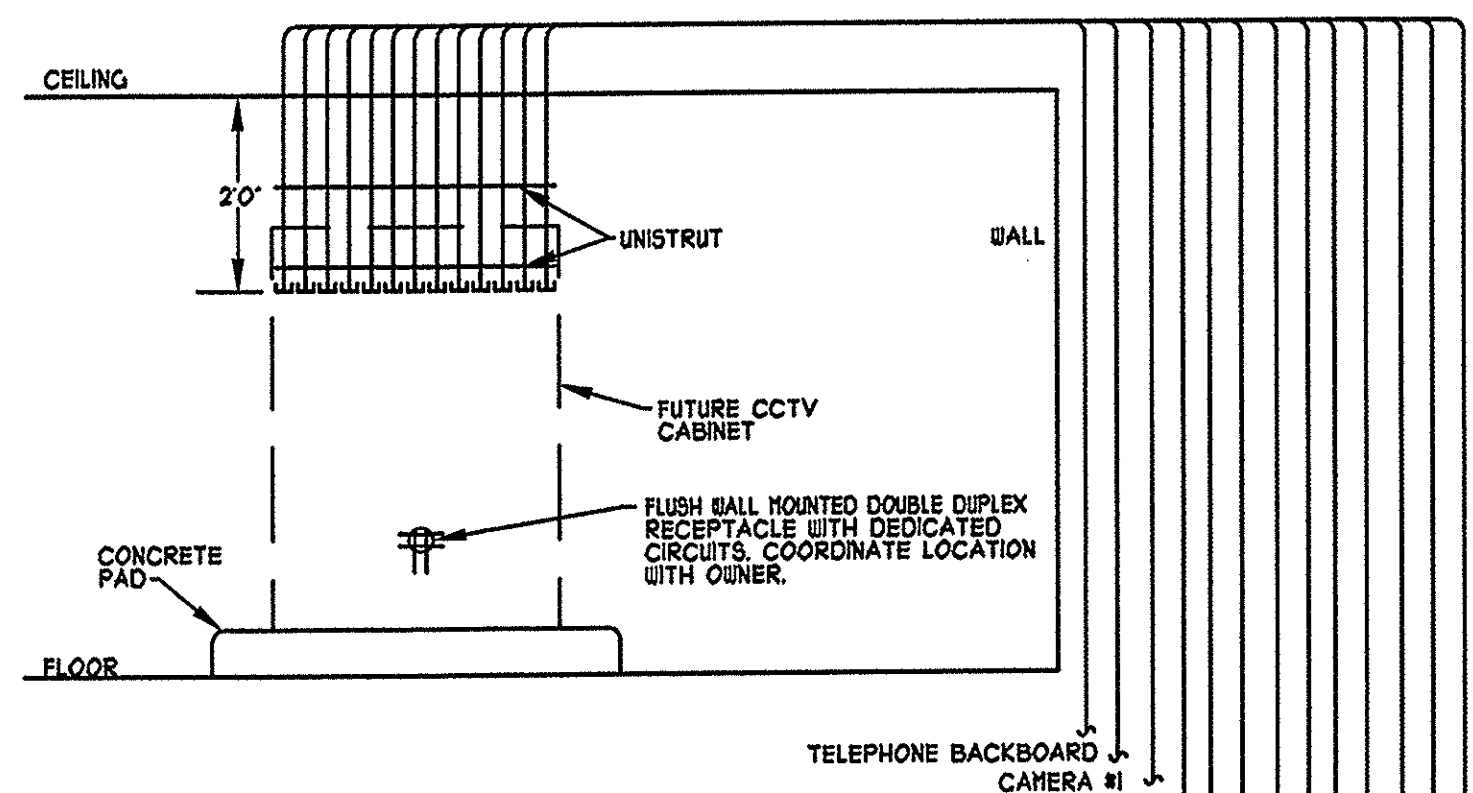
- ALL FLUORESCENT BALLASTS SHALL BE ELECTRONIC, ENERGY SAVING.
- ALL FLUORESCENT LAMPS SHALL BE 9500°K COLOR TEMPERATURE.
- POLE, KRS12-420FH-DB-P WITH PROVISION FOR TWO WIP OFF 120V 20A DUPLEX RECEPTACLES AT 24" ABOVE BASE. PROVISIONS SHALL MEET NEC 406.8-(B)-(2)-(1A) REQUIREMENTS.



A TELEPHONE/DATA SYSTEM DIAGRAM

NOTES:

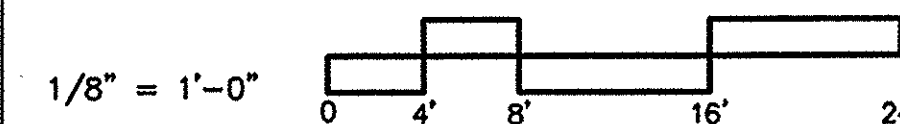
- CONDUIT TO TELEPHONE, DATA, AND CABLE OUTLET: 3/4" WITH #12 PULL WIRE.
- TELEPHONE/DATA SERVICE CONDUIT: 4" PVC #40 WITH PULL WIRE. COORDINATE SERVICE WITH UTILITY. PROVIDE CONDUIT AND PULL WIRE PER UTILITY REQUIREMENTS AND DIRECTIONS.
- CABLE/DATA SERVICE CONDUIT: 2" PVC #40 WITH PULL WIRE. COORDINATE SERVICE WITH UTILITY. PROVIDE CONDUIT AND PULL WIRE PER UTILITY REQUIREMENTS AND DIRECTIONS.



B CCTV SYSTEM DIAGRAM

NOTES:

- CONDUITS SHALL EXTEND UPWARD THROUGH CEILING AND THEN EXTEND OVER AND DOWN SO THAT NO CONDUITS INCLUDING THE CONDUITS FOR THE DUPLEX RECEPTACLE AND LIGHTING IN THE ROOM PENETRATE THE FLOOR AREA (INCLUDING THE FLOOR BENEATH THE WALLS) OF THE ROOM THE CCTV CABINET IS LOCATED IN.
- CONDUIT TO TELEPHONE BACKBOARD: 1-3/4" WITH #12 PULL WIRE.
- CONDUITS FOR CAMERAS #1-#8: 2-3/4" WITH #12 PULL WIRE. TERMINATE CONDUITS TO 4" SQ. DEEP BOXES WITH BLANK COVER PLATES. BOXES SHALL BE LOCATED IN CONCEALED SPACE. PROVIDE ACCESS REANS TO ALL BOXES.
- CONDUITS FOR CAMERAS #9-#11: 2-1" WITH #12 PULL WIRE. CAP CONDUIT JUST ABOVE GRADE ADJACENT TO LIGHT POLE BASE. SEE SHEET SES-1 FOR LOCATIONS.
- CONDUIT FOR CAMERA #12: 2-1" WITH #12 PULL WIRE. CAP CONDUITS STUBBED UP INSIDE MAINTENANCE SHED.
- TAG CONDUITS WITH LOCATION OF CONDUIT RUN (I.E. CAMERA #1 ETC.).



CONSULTING ARCHITECTS & ENGINEERS

ARCHITECT:
OFFICE OF THE STATE ARCHITECT
MECHANICAL/ELECTRICAL/STRUCTURAL
S.R.A. INC.
SITE/CIVIL
KZF DESIGN, INC.
LANDSCAPE ARCHITECTURE
KINZELMAN KLINE

REVISIONS

NO.	DATE	DESCRIPTION

FOR:

OHIO DEPT. OF TRANSPORTATION

DRAWING DESCRIPTION:

ELECTRICAL DIAGRAMS & SCHEDULES - SOUTH SITE (EAST BOUND)

PROJECT NO. 770-2003-074

1/70 LICKING COUNTY REST AREA

STATE OF OHIO
DEPARTMENT OF ADMINISTRATIVE SERVICES
GENERAL SERVICES DIVISION
PREPARED BY
GENERAL SERVICES DIVISION
OFFICE OF THE STATE ARCHITECT

PLOT DATE

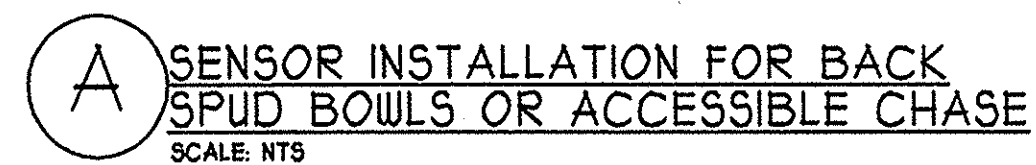
AUGUST 2004

DATE

AUGUST 2004

SE-5

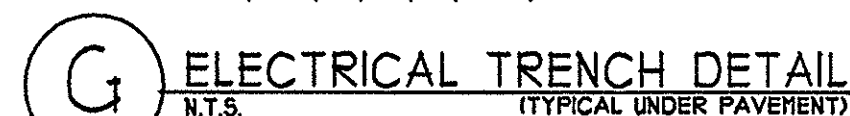
BID/CONSTRUCTION SET



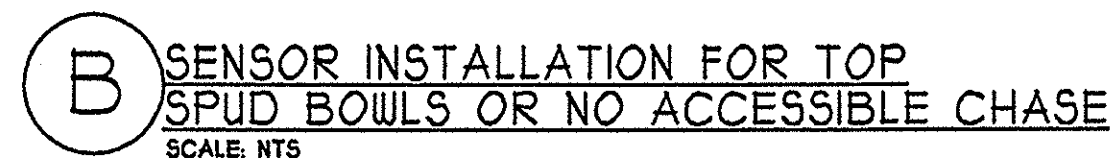
1. QUANTITY OF SENSORS AND VALVE OPERATORS PER DRAWINGS.
2. QUANTITY OF TRANSFORMERS PER MANUFACTURER'S REQUIREMENT.
3. INSTALL EXPOSED LOW VOLTAGE WIRING IN SPLIT PLASTIC TUBING FASTENED AT 1'-0" INTERVALS.



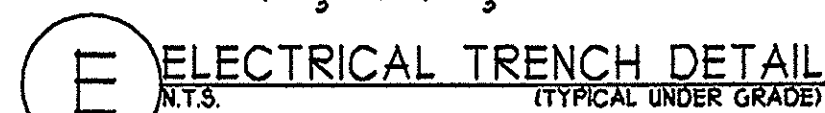
1. QUANTITY OF SENSORS AND VALVE OPERATORS PER DRAWINGS.
2. QUANTITY OF TRANSFORMERS PER MANUFACTURER'S REQUIREMENT.
3. INSTALL EXPOSED LOW VOLTAGE WIRING IN SPLIT PLASTIC TUBING FASTENED AT 1'-0" INTERVALS.



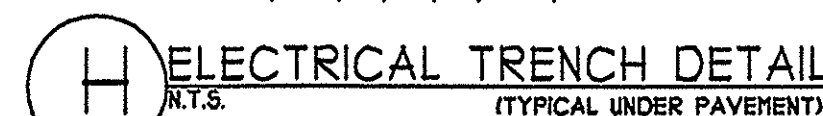
- I. CONDUITS FOR UTILITY SHALL BE PROVIDED AT DEPTH REQUIRED BY UTILITY



1. QUANTITY OF SENSORS AND VALVE OPERATORS PER DRAWINGS.
2. QUANTITY OF TRANSFORMERS PER MANUFACTURER'S REQUIREMENT.
3. INSTALL EXPOSED LOW VOLTAGE WIRING IN SPLIT PLASTIC TUBING FASTENED AT 1'-0" INTERVALS.



1. CONDUITS FOR UTILITY SHALL BE PROVIDED AT DEPTH REQUIRED BY UTILITY



1. NUMBER OF CONDUITS VARIES.
2. MINIMUM 3" ENVELOPE AROUND EACH CONDUIT.
3. MINIMUM 4" SEPARATION BETWEEN CONDUITS.
4. CONDUITS FOR UTILITY SHALL BE PROVIDED AT DEPTH REQUIRED BY UTILITY



1. QUANTITY OF SENSORS AND VALVE OPERATORS PER DRAWINGS.
2. QUANTITY OF TRANSFORMERS PER MANUFACTURER'S REQUIREMENT
3. INSTALL EXPOSED LOW VOLTAGE WIRING IN SPLIT PLASTIC TUBING FASTENED AT 1'-0" INTERVALS.



1. NUMBER OF CONDUITS VARIES.
2. MINIMUM 3' ENVELOPE AROUND EACH CONDUIT.
3. MINIMUM 6" SEPARATION BETWEEN CONDUITS.
4. CONDUITS FOR UTILITY SHALL BE PROVIDED AT DEPTH REQUIRED BY UTILITY



- ELECTRICAL TRENCH DETAIL**
NTS (TYPICAL UNDER PAVEMENT)

HEAD STATION: Mary DRAWING: I:\DRAWINGS\SAC\REST AREAS\SOUTH\4005-SF6.dwg DATE: .III 20 2004 TIME: 11:57 AM