

AGENDA
BOARD OF CITY COMMISSIONERS
July 5, 2011 AT 6:30 P.M.
COMMISSION CHAMBERS AT CITY HALL
SHAWNEE, OKLAHOMA

CALL TO ORDER

DECLARATION OF A QUORUM
INVOCATION

REV. RAY BELFORD
FIRST CHRISTIAN CHURCH

FLAG SALUTE

1. Consider approval of Agenda:
2. Consider approval of Consent Agenda:
 - a. Acknowledge staff will proceed in the instant meeting with the opening and consideration of bids as set forth in Agenda Item Number 6.
 - b. Minutes from the June 20, 2011 regular meeting.
 - c. Acknowledge the following minutes:
 - Shawnee Civic and Cultural Development Authority minutes from May 19, 2011
 - Traffic Commission minutes from April 26, 2011
 - d. Acknowledge re-instatement of Robert Cash to the Beautification Committee, term to expire 12/31/12 1st full term.
 - e. Authorize the City Manager to sign a commitment letter to participate in the Bring It Home Energy Conservation program.
 - f. Authorize staff to advertise for bids for the Safe Routes to School Sidewalk Project.
 - g. Authorize staff to advertise for bids for the Lake Road Bridge Repair Project.
 - h. Authorize staff to advertise for bids for the North Harrison Median Landscaping Project.
 - i. Lakesite Leases Transfers and Renewals:

Transfers:

Lot 2 Belcher Tract, 15512 Nickens Road

From: Tibbs

To: Perkins & Vickery

Lot 5 Magnino A Tract, 17104 Magnino Road

From: Carroll

To: Childers

Renewals:

Lot 5 Green Tract, 32101 Hornbeck Road

Bykerk

Lot 3 Roewe Tract, 15515 Perry Road

Moore

j. Traffic Commission Recommendations from June 28, 2011

A. Consideration of request by Parks Department staff for street light at the corner of W. Farrall and Dockrey Ballfield.

STAFF RECOMMENDATION: Staff recommends installation at requested location.

BOARD RECOMMENDATION: Board agrees with staff recommendation.

B. Consideration of request by Mike Pritchard, 832 W. Forrest, to put up a vapor light at the corner of Forrest and Tennessee

STAFF RECOMMENDATION: Staff recommends to deny this request.

BOARD RECOMMENDATION: Board agrees with staff recommendation.

3. Citizens Participation

(A three minute limit per person)

(A twelve minute limit per topic)

4. Consider acceptance of Final Plat and public easement and infrastructure for Linden Heights First Addition.

5. Consider renewal of contract with Central Disposal for the period July 1, 2011 to June 30, 2012, amending Section II to allow for creation of an escrow account in lieu of a performance bond.

6. Consider Bids:

a. Auditorium Heat and Air Project Design/Build RFP(Open)

7. New Business

(Any matter not known about or which could not have been reasonably foreseen prior to the posting of the agenda)

8. Administrative Reports

9. Commissioners Comments

10. Adjournment

Respectfully submitted

Phyllis Loftis, City Clerk

The City of Shawnee encourages participation from its citizens in public meetings. If participation is not possible due to a disability, notify the City Clerk, in writing, at least forty-eight hours prior to the scheduled meeting and necessary accommodations will be made. (ADA 28 CFR/36)

Regular Board of Commissioners

2. a.

Meeting Date: 07/05/2011

Instant meeting with opening of bids

Submitted By: Donna Mayo, Administration

Department: Administration

Information

Title of Item for Agenda

Acknowledge staff will proceed in the instant meeting with the opening and consideration of bids as set forth in Agenda Item Number 6.

Regular Board of Commissioners

2. b.

Meeting Date: 07/05/2011

Minutes from June 20, 2011

Submitted By: Donna Mayo, Administration

Department: Administration

Information

Title of Item for Agenda

Minutes from the June 20, 2011 regular meeting.

Attachments

Minutes June 20, 2011

BOARD OF CITY COMMISSIONERS PROCEEDINGS
JUNE 20, 2011 AT 6:30 P.M.

The Board of City Commissioners of the City of Shawnee, County of Pottawatomie, State of Oklahoma, met in Regular Session in the Commission Chambers at City Hall, 9th and Broadway, Shawnee, Oklahoma, Monday, June 6, 2011 at 6:30 p.m., pursuant to notice duly posted as prescribed by law. Mayor Peterson presided and called the meeting to order. Upon roll call, the following members were in attendance.

Linda Peterson

Mayor

Pam Stephens

Commissioner Ward 1

Frank Sims

Commissioner Ward 2

James Harrod

Commissioner Ward 3

Billy Collier

Commissioner Ward 4-Vice Mayor

Absent

Commissioner Ward 5

Steve Smith

Commissioner Ward 6

ABSENT: John Winterringer

INVOCATION

Don Lynch

FLAG SALUTE

AGENDA ITEM NO. 1:

Consider approval of Agenda.

A motion was made by Commissioner Harrod, seconded by Commissioner Sims, to approve the Agenda. Motion carried 6-0.

AYE: Harrod, Sims, Peterson, Collier, Smith, Stephens

NAY: None

AGENDA ITEM NO. 2:

Consider approval of Consent Agenda:

- a. Minutes from the June 6, 2011 regular meeting.

- b. Budget Amendment – General Fund – to bring up compensated absences from fund balance to accommodate those who left
- c. Budget Amendment – SMA – to adjust budget for compensated absences
- d. Budget Amendment – General Fund – to adjust for overage in cost centers
- e. Budget Amendment – Work Comp Self-Insurance Fund
- f. Budget Amendment – SMA – to adjust departments
- g. Acknowledge the following minutes and reports:
 - Shawnee Urban Renewal Authority minutes from April 5, 2011
 - Beautification Committee minutes from May 2, 2011
 - Project Payment Report for the month of May, 2011
 - License Payment Report for the month of May, 2011
- h. Acknowledge annual budget for the Pioneer Library System FY 2011-2012.
- i. Acknowledge Oklahoma Municipal Retirement Fund refund of contributions from the Defined Contribution plan for Kenneth Darren Harris.
- j. Approve agreement with Pottawatomie County Commissioners to improve Coker Road.
- k. Approve Lease Agreement with Project H.E.A.R.T., Inc.

A motion was made by Commissioner Harrod, seconded by Commissioner Sims, to approve the Consent Agenda Items a – k. Motion carried 6-0.

AYE: Harrod, Sims, Peterson, Collier, Smith, Stephens

NAY: None

AGENDA ITEM NO. 3:

Citizens Participation
(A three minute limit per person)
(A twelve minute limit per topic)

Mr. Fred Turner spoke regarding the OMRF retirement fund of non-union employees and the pension plans for covered Fire and Police personnel. Mr. Turner stated that he feels the City is making excessive contributions to these employee funds.

AGENDA ITEM NO. 4:

Consider Oklahoma Municipal Retirement Fund lump sum payment from Defined Benefit Plan and refund of contributions from the Defined Contribution Plan for Nancy Warren.

A motion was made by Commissioner Harrod, seconded by Commissioner Collier, to pay lump sum payment from Defined Benefit Plan and refund all contributions from the Defined Contribution Plan for Nancy Warren. Motion carried 6-0.

AYE: Harrod, Collier, Smith, Stephens, Sims, Peterson

NAY: None

AGENDA ITEM NO. 5:

Public hearing and consider a resolution adopting the budget for the City of Shawnee for the period of July 1, 2011 through June 30, 2012 finding all things requisite and necessary have been done in preparation and presentation of budget.

Mayor Peterson declared a public hearing and asked for public comments from anyone in favor or in protest of this resolution.

Mr. Fred Turner addressed the Commission again with his concerns regarding the retirement/pension funds and urged the Commission to not approve the budget under they have received more information regarding this issue. No other person(s) came forward to speak on this item and the public hearing was closed.

City Manager Brian McDougal addressed the budget issue and stated that two budget options have been provided to the Commission, however it was staff's recommendation to proceed with the cash basis budget option due capital projects' priorities and funding sources, which have yet to be determined. Mr. McDougal stated that should the Commission desire to change to the other option, the budget could be amended at a later date.

When asked about the issues raised by Mr. Turner, Mr. McDougal stated that the fire/police pension amounts are set by the State of Oklahoma and cannot be changed by the City. He further related that the City is contributing nearly 23% to OMRP for non-union employees and that it is 90% funded. Cindy Sementelli, Finance Director, confirmed that the amount paid into the retirement fund is based on an actuarial percentage of our current payroll.

A motion was made by Commissioner Harrod, seconded by Commissioner Sims, to approve a resolution adopting the budget for the City of Shawnee for the period of July 1, 2011 through June 30, 2012 finding all things requisite and necessary have been done in preparation and presentation of said budget.

The title of Resolution No. 6409 was then read into the record:

Resolution No. 6409:

A RESOLUTION APPROVING AND ADOPTING THE BUDGET FOR THE CITY OF SHAWNEE, OKLAHOMA FOR THE PERIOD JULY 1, 2011 THROUGH JUNE 30, 2012 FINDING ALL THINGS REQUISITE AND NECESSARY HAVE BEEN DONE IN PREPARATION AND PRESENTATION OF SAID BUDGET.

Motion carried 6-0.

AYE: Harrod, Sims, Peterson, Collier, Smith, Stephens

NAY: None

AGENDA ITEM NO. 6:

Acknowledge Sales Tax report received June, 2011.

Finance Director Cindy Sementelli reported that sales tax were down this month approximately \$34,000 over last year. However, revenues are approximately \$724,200 above year-to-date budget projections.

AGENDA ITEM NO. 7:

Consider Bids:

- a. Water Treatment Plant Chemical Building HVAC System Project No. SHA-10-02 (Award)

Utility Director Jim Bierd announced that three bids were received and after review and consideration it was staff's recommendation to award the bid to All Phase Electric of Shawnee, Oklahoma in the amount of \$75,000.00.

A motion was made by Commissioner Sims, seconded by Commissioner Collier, to accept staff's recommendation and award the bid to All Phase Electric in the amount of \$75,000.00. Motion carried 6-0.

AYE: Sims, Collier, Smith, Stephens, Harrod, Peterson

NAY: None

AGENDA ITEM NO. 8:

New Business (Any matter not known about or which could not have been reasonably foreseen prior to the posting of the agenda)

There was no New Business.

AGENDA ITEM NO. 9:

Administrative Reports

Director of Operations James Bryce reported on the city auction held on June 11, 2011. The amount of \$22,776.80 was the amount cleared by the City after payment to the auctioneer. Mr. Bryce further stated that his intention is to have city auctions on an annual or semi-annual basis.

Police Chief Russell Frantz reported that the City of Shawnee has been awarded the United States Department of Justice, Burns Grant in the amount of \$25,277.00. Chief Frantz said that it was the department's intention to purchase additional tasers with the grant funds.

Chief Frantz further reported that burglary suspects in two separate incidents have been apprehended.

AGENDA ITEM NO. 10:

Commissioners Comments

Commissioner Smith reported that he had recently attended Oklahoma Municipal League training provided to new Commissioners and felt he had a better understanding of city government. Further, that he was very happy to be representing the City of Shawnee and congratulated all for their professionalism in the operations of city government.

Mayor Peterson told Commissioners that the City Manager would soon be providing them with a list of upcoming events being held in the city.

Commissioner Harrod mentioned he had been informed of a water problem west of the Elk's Lodge and that fire protection insurance increased approximately \$4,000 per year to residents in the area. Commissioner Harrod asked if staff would make contact with residents regarding annexation into the city limits.

AGENDA ITEM NO. 11:

Consider an Executive Session to discuss possible mediation or settlement in the case of the City of Shawnee V. Shawnee Animal Hospital, Inc. et al., Case No. C-2009-1734; case filed in the District Court of Pottawatomie County, Oklahoma, as authorized by 25 O. S. §307 (B)(4).

A motion was made by Commissioner Harrod, seconded by Commissioner Sims, to enter into Executive Session to discuss possible mediation or settlement in the case of the City of Shawnee V. Shawnee Animal Hospital, Inc. et al., Case No. C-2009-1734; case filed in the District Court of Pottawatomie County, Oklahoma, as authorized by 25 O. S. §307 (B)(4). Motion carried 6-0.

AYE: Harrod, Sims, Peterson, Collier, Smith, Stephens

NAY: None

AGENDA ITEM NO. 12:

Consider an Executive Session to discuss cases of Anthony J. Grasso V. City of Shawnee, Case No. CJ-2010-243; and David Block, Alan Gunter, Billy Mitchell, David Powell and Patricia Swinney V. City of Shawnee, Case No. CJ-10-721; cases filed in the District Court of Pottawatomie, County, Oklahoma, and workers compensation cases of Anthony J. Grasso (Case No. 2009-08537A), David Block (Case No. 2009-14594X), Alan Gunter (Case No. 2009-15678A), Billy Mitchell (Case No. 2010-13787H), David Powell (Case No. 2009-08538H), and Patricia Swinney (Case No. 2009-10858K), as authorized by 25 O. S. §307 (B)(4).

A motion was made by Commissioner Sims, seconded by Commissioner Collier, to enter into Executive Session to discuss cases of Anthony J. Grasso V. City of Shawnee, Case No. CJ-2010-243; and David Block, Alan Gunter, Billy Mitchell, David Powell and Patricia Swinney V. City of Shawnee, Case No. CJ-10-721; cases filed in the District Court of Pottawatomie, County, Oklahoma, and workers compensation cases of Anthony J. Grasso (Case No. 2009-08537A), David Block (Case No. 2009-14594X), Alan Gunter (Case No. 2009-15678A), Billy Mitchell (Case No. 2010-13787H), David Powell (Case No. 2009-08538H), and Patricia Swinney (Case No. 2009-10858K), as authorized by 25 O. S. §307 (B)(4). Motion carried 6-0.

AYE: Sims, Collier, Smith, Stephens, Harrod, Peterson

NAY: None

AGENDA ITEM NO. 13:

Consider an Executive Session to discuss status of Collective Bargaining Agreement with the IUPA, Local No. 3, for FY 2011-2012 as authorized by 25 O.S. §307(B)(2).

A motion was made by Commissioner Collier, seconded by Commissioner Sims, to enter into Executive Session to discuss status of Collective Bargaining Agreement with the IUPA, Local No. 3, for FY 2011-2012 as authorized by 25 O.S. §307(B)(2). Motion carried 6-0.

AYE: Collier, Sims, Harrod, Peterson, Smith, Stephens

NAY: None

AGENDA ITEM NO. 14:

Consider an Executive Session to discuss status of Collective Bargaining Agreement with the IAFF, Local No. 203, for FY 2011-2012 as authorized by 25 O.S. §307(B)(2).

A motion was made by Commissioner Sims, seconded by Commissioner Collier, to enter into Executive Session to discuss status of Collective Bargaining Agreement with the IAFF, Local No. 203, for FY 2011-2012 as authorized by 25 O.S. §307(B)(2). Motion carried 6-0.

AYE: Sims, Collier, Smith, Stephens, Harrod, Peterson

NAY: None

COMMISSION ENTERS EXECUTIVE SESSION AT 7:03 P.M.

COMMISSION RETURNS FROM EXECUTIVE SESSION WITH ALL COMMISSIONERS PRESENT AT 9:41 P.M.

AGENDA ITEM NO. 15:

Consider matters discussed in Executive Session regarding pending litigation in the case of the City of Shawnee V. Shawnee Animal Hospital, Inc. et al. Case No. C-09-1734; case filed in the District Court of Pottawatomie County, Oklahoma, as authorized by 25 O. S. §307 (B)(4).

No action was taken.

AGENDA ITEM NO. 16:

Consider matters discussed in Executive Session regarding cases of Anthony J. Grasso V. City of Shawnee, Case No. CJ-2010-243; and David Block, Alan Gunter, Billy Mitchell, David Powell and Patricia Swinney V. City of Shawnee, Case No. CJ-10-721; cases filed in the District Court of Pottawatomie, County, Oklahoma, and workers compensation cases of Anthony J.

Grasso (Case No. 2009-08537A), David Block (Case No. 2009-14594X), Alan Gunter (Case No. 2009-15678A), Billy Mitchell (Case No. 2010-13787H), David Powell (Case No. 2009-08538H), and Patricia Swinney (Case No. 2009-10858K), as authorized by 25 O. S. §307 (B)(4).

A motion was made by Commissioner Harrod, seconded by Commissioner Smith, to authorize City Attorney to negotiate a settlement within the parameters discussed in Executive Session for all six cases. Motion carried 5-1.

AYE: Harrod, Smith, Stephens, Peterson, Collier

NAY: Sims

AGENDA ITEM NO. 17:

Consider matters discussed in Executive Session regarding status of Collective Bargaining Agreement with the IUPA, Local No. 3 for FY 2011-2012 as authorized by O.S. §307(B)(2).

No action was taken.

AGENDA ITEM NO. 18:

Consider matters discussed in Executive Session regarding status of Collective Bargaining Agreement with the IAFF, Local No. 203 for FY 2011-2012 as authorized by O.S. §307(B)(2).

No action was taken.

AGENDA ITEM NO. 19:

Adjournment

There being no further business to be considered, a motion was made by Commissioner Sims, seconded by Commissioner Harrod, that the meeting be adjourned. Motion carried 6-0. (9:46 p.m.)

AYE: Sims, Harrod, Peterson, Collier, Smith, Stephens

NAY: None

LINDA PETERSON, MAYOR

(SEAL)

ATTEST:

PHYLLIS LOFTIS,
CITY CLERK

Regular Board of Commissioners

2. c.

Meeting Date: 07/05/2011

Minutes and reports

Submitted By: Donna Mayo, Administration

Department: Administration

Information

Title of Item for Agenda

Acknowledge the following minutes:

- Shawnee Civic and Cultural Development Authority minutes from May 19, 2011
- Traffic Commission minutes from April 26, 2011

Attachments

SCCDA minutes May 19 2011

Traffic Commission minutes 4-26-11

A Meeting of the Shawnee
Civic and Cultural Development Authority
May 19, 2011
12:30 P.M.
Heart of Oklahoma Exposition Center

The Trustees of the Shawnee Civic and Cultural Development Authority met for their regular meeting Thursday, May 19, 2011 at 12:30 PM at Heart of Oklahoma Exposition Center, pursuant to notice duly posted as prescribed by law. Notice was filed at City Hall on 05/12/2011 at 10:40 AM.

AGENDA ITEM NO.1

Call to Order.

The meeting was called to order at 12:30 PM by Mr. Karl Kozel, Chairman.

AGENDA ITEM NO.2

Roll Call.

TRUSTEES PRESENT: Mr. Karl Kozel
 Mr. Randy Gilbert
 Mr. Jim Lowe
 Mr. Carl Packwood
 Mr. Lance Wortham
 Mr. Brian McDougal

TRUSTEES ABSENT: Mr. Casey Bell

Also in attendance: Michael Jackson, Operations Manager; Stephanie Meiler, Administrative Assistant, Mike Clover, Stuart & Clover, Justin Erickson from the City of Shawnee, Chris Dunlap, Expo Superintendent and Gordona Rowell of the Shawnee CVB.

AGENDA ITEM NO.3

Declaration of a Quorum

Chairman Mr. Karl Kozel, Declared a Quorum.

AGENDA ITEM NO.4

Approval of minutes of Regular
Meeting of April 2011

The motion made by Trustee Packwood, seconded by Trustee McDougal that the minutes of the regular meeting of April 2011 are approved. Motion carried.

AYE: Gilbert, Packwood, Wortham, McDougal, Kozel
NAY: None
ABSTAIN: Lowe

AGENDA ITEM NO. 6

Approval of Monthly Financial Report for
March 2011.

The motion made by Trustee Packwood, seconded by Trustee Lowe to approve the monthly financial report for April 2011. Motion carried.

AYE: Gilbert, Lowe, Packwood, Wortham, McDougal Kozel
NAY: NONE
ABSTAIN: NONE

AGENDA ITEM NO. 7Approval of Claims for the
General Account.

A.	OG&E Monthly Utilities	\$ 7,622.25
B.	INS Equipment Maintenance	\$ 666.28
C.	Oklahoma Natural Gas Monthly Utilities	\$ 1,056.95
D.	Acme Glass Co. Re-Model on Fred Humphrey	\$ 796.00
E.	Express Services Inc Temp Labor	\$ 885.60
F.	Vision Bank Loan Payment	\$ 576.98
G.	OneOK Monthly Utilities	\$ 1,938.12
H.	Hunzicker Brothers Bldg. Maintenance	\$ 200.39
I.	Bobcat of OKC Equipment Maintenance	\$ 52.03
J.	Locke Supply Grounds Maintenance	\$ 199.87
K.	AT&T Mobility Monthly Utilities	\$ 47.50
L.	A-1 Rooter Service Grounds Maintenance	\$ 399.50
M.	AirGas Mid South Equipment	\$ 54.90
N.	AVL Systems Equipment Maintenance	\$ 1,030.00
O.	Bankers Credit Card Services Monthly Utility	\$ 278.65
P.	Convention & Visitors Bureau Advertising	\$ 561.66
Q.	Freds Tire & Battery Equipment Maintenance	\$ 10.00
R.	Hunzicker Brothers Equipment Maintenance	\$ 200.39

S.	Express Services Inc Temp Labor	\$ 2,388.42
T.	DROFFATS Inc Catering \$ Due	\$ 2,891.00
U.	Finley & Cook Accounting Services	\$ 190.00
V.	City of Shawnee- Water Monthly Utilities	\$ 356.69
W.	AT&T Monthly Utilities	\$ 1,052.15
X.	Chuck Jones Sand for Events	\$ 200.00
Y.	Fuelman Monthly Utility	\$ 1,452.44
Z.	Sparks Heat and Air Bldg Maintenance	\$ 1,170.30
AA.	Shawnee Lighting Bldg & Grounds Maintenance	\$ 745.23
BB.	Stuart & Clover Legal Services	\$ 303.75
CC.	Signs USA Bldg Maintenance	\$ 80.00
DD.	Cintas Uniform Costs	\$ 197.00
EE.	NAPA Equipment Maintenance	\$ 110.27
FF.	FarmPlan Monthly Payment	\$ 100.75

ADD-ON'S

GENERAL ACCOUNT:

A.	Whites Ace Building Center Grounds Maintenance	\$ 135.01
B.	Charlie Stubbs Commercial Kitchen Equip.	\$ 1,800.00
C.	ONG Monthly Utilities	\$ 526.96
D.	Buford Whites Bldg Maintenance	\$ 41.61

E.	Express Services Temp Labor	\$ 1,166.40
F.	Back 40 Designs Web Hosting	\$ 50.00
G.	Shawnee Office Systems Monthly Utilities	\$ 135.51

The motion made by Trustee Lowe, seconded by Trustee Packwood to approve the claims on the General Account.
Motion carried.

AYE: Gilbert, Lowe, Packwood, Wortham, McDougal, Kozel
NAY: None
ABSTAIN: None

AGENDA ITEM NO. 8

Approval of claims for the Special
Account.

A.	Twister Saddles IFYR 2011	\$ 6,250.00
B.	PenPoint Magazine IFYR 2011	\$ 357.00
C.	Shawnee News Star IFYR 2011	\$ 730.00
D.	Lee Woodside IFYR 2011	\$ 360.00
E.	TX High School Rodeo IFYR 2011	\$ 150.00
F.	Hoofbeat Express IFYR 2011	\$ 400.00
G.	Cowboy Times IFYR 2011	\$ 527.25
H.	Gist Buckles IFYR 2011	\$ 3,335.00
Add On's		
A.	Michael McCormick Media Director IFYR 2011	\$ 300.00
B.	HASCO Tag Co. IFYR 2011	\$ 130.25

The motion made by Trustee Packwood, seconded by Trustee Wortham to approve the claims on the Special Account. Motion carried.

AYE: Gilbert, Lowe, Packwood, Wortham, McDougal, Kozel
NAY: None
ABSTAIN: None

AGENDA ITEM NO 9

Approval of claims for the Shavings Account.

NONE

AGENDA ITEM NO.10

Discussion to approve concept on parking lot/grounds beautification-

The motion made by Trustee Lowe, seconded by Trustee Packwood to approve the concept for the parking lot / grounds beautification- Motion carried.

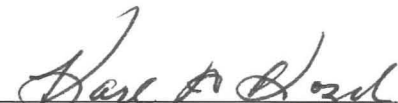
AYE: Gilbert, Lowe, Packwood, Wortham, McDougal, Kozel
NAY: None
ABSTAIN: None

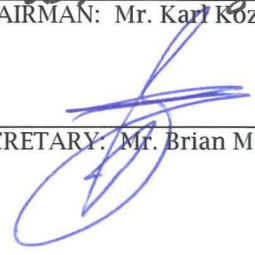
AGENDA ITEM NO. 17

Adjournment

The motion made by Trustee McDougal, seconded by Trustee Lowe to adjourn the meeting. Motion Carried

AYE: Gilbert, Lowe, Packwood, Wortham, McDougal, Kozel
NAY:
ABSTAIN:


CHAIRMAN: Mr. Karl Kozel


SECRETARY: Mr. Brian McDougal

MINUTES
TRAFFIC COMMISSION
April 26, 2011 MEETING
COMMISSION CHAMBERS ROOM AT CITY HALL

I. ROLL CALL
MEMBERS PRESENT

Theresa Cody
Ron Duffell
Deena Harris
Delbert Totty

MEMBERS ABSENT

None

EX-OFFICIO MEMBERS

Michael Ludi, Asst. City Engineer
Amber Satterfield, Asst. City Engineer
Keith Mangus, Traffic Control Supervisor
E. Jill Smith, Secretary

CITIZENS PRESENT

Traci Westbrook, Sustainable Shawnee

II. APPROVAL OF MINUTES

Motion was made by Harris, seconded by Cody for the approval of the January 25, 2011 and February 15, 2011 minutes. Motion carried.

Aye: Harris, Cody, Duffel, Totty
Nay: None

III. SWEAR IN OF BILL JOHNSON

IV. SWEAR IN OF WAYNE ARDREY

V. SWEAR IN OF RONALD TAFTE

VI. ACKNOWLEDGEMENT OF RESIGNATION OF KELLY MALLORY FROM TRAFFIC COMMISSION

VII. APPOINTMENT OF CHAIRMAN OF TRAFFIC COMMISSION BY MEMBER OF TRAFFIC BOARD

Discussion: Board members to decide who is to volunteer for the Chairman position. Bill Johnson volunteered for the position, with no other volunteers coming forward.

Motion was made by Harris, seconded by Totty to appoint Johnson as Chairman of the Traffic Commission. Motion carried.

Aye: Harris, Totty, Ardrey, Cody, Duffell, Johnson, Taffe
Nay: None

VIII. APPOINTMENT OF VICE CHAIRMAN OF THE TRAFFIC COMMISSION BY MEMBER OF TRAFFIC BOARD IF NEEDED

Discussion: No change in Vice-Chairman position.

IX. CONSIDERATION OF REQUESTS

A. Consideration of request by staff to put up street light at the following locations:

1. 1800 block of North Union
2. Intersection of Industrial Way and Industrial Drive
3. Kickapoo & Hazel Del
4. Kickapoo & Garrett's Lake Rd
5. Kickapoo & Moccasin Trail
6. Dewey & Leo at railroad tracks

Discussion: Staff has requested street lights be put up at the locations above and slideshow was presented with pictures of proposed locations. Johnson asked about the middle of the block location of the light at 1800 block of North Union and it was explained by staff that it is an especially long block.

Motion was made by Totty, seconded by Ardrey to approve request. Motion carried.

Aye: Totty, Ardrey, Duffell, Harris, Johnson, Taffe
Nay: Cody

B. Consideration of request by Sustainable Shawnee and Justice Mission of Oklahoma Baptist University to put up light on existing pole on Wall between Park & Market

Discussion: Traci Westbrook with Sustainable Shawnee asked that a light be put up for the safety of the community garden at that location and for the safety of that community. Staff showed that the existing light pole is in an alley and that there are lights on either end of the block that are working properly.

Motion was made by Totty, seconded by Harris to agree with staff recommendation to deny request. Motion carried.

Aye: Totty, Harris, Ardrey, Cody, Duffell, Johnson, Taffe

Nay: None

C. Consideration of request by Gilbert Crook, 617 S. Louisa, to put up “Children at Play” sign on the 600 block of South Louisa

Discussion: Commission members were given a copy of a study done by the Transportation Synthesis Report Research & Library Services for the Wisconsin DOT showing the counter effectiveness of “Children at Play” signs. Staff also cited that the sign has been removed from the MUTCD manual.

Motion was made by Taffe, seconded by Totty to agree with staff recommendation to deny request. Motion carried.

Aye: Taffe, Totty, Ardrey, Cody, Duffell, Harris, Johnson

Nay: None

D. Consideration of request by staff to lower speed limit on North Kickapoo North of 45th Street

Discussion: Staff explained that ODOT had ultimate control over the speed limit on this road and that even if COS staff did their own traffic study, ODOT would do their own as well.

Motion was made by Harris, seconded by Ardrey to agree with staff recommendation to ask ODOT for traffic study. Motion carried.

Aye: Harris, Ardrey, Cody, Duffell, Johnson, Taffe, Totty

Nay: None

X. ADMINISTRATIVE REPORTS

Staff showed intersection where a light was requested previously at Farrall and Bell to go along with a request at the February meeting and Commissioners were given information about why ODOT denied the request for a light at that location.

Staff gave updates on Mall Drive Turn Lanes Project, Beard Street Widening Project, Kickapoo Project, and Harrison overlay. Commissioners requested copies of re-routing plans for the Kickapoo Project and staff confirmed that the Harrison Street overlay would be done before Kickapoo got underway.

XI. CITIZEN PARTICIPATION

None

XII. BOARD MEMBERS COMMENTS

Totty asked Keith Mangus about timing of traffic lights at Pottenger and Kickapoo Spur, Mangus said that he witnessed lights working properly but will check again. Mangus explained that yellow lights are typically designed to last anywhere from 3.5-4 seconds. Johnson asked Mangus for a copy of timing sheets he uses to keep track of lights around town.

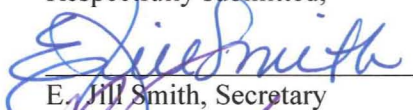
Cody commented that the parking lot striping downtown looks very good.

Taffe asked if there was any additional information on the proposed I-40/Bryan interchange, to which staff responded that there was not. Nor were there any plans for an Acme/I-40 interchange.

There being no further business to come before the Traffic Commission, a motion was made by Taffe, seconded by Harris recommending the meeting be adjourned. Motion carried.

Aye: Taffe, Harris, Ardrey, Cody, Duffell, Johnson, Totty
Nay: None

Respectfully submitted,



E. Jill Smith, Secretary



Bill Johnson, Chairman

Regular Board of Commissioners

2. d.

Meeting Date: 07/05/2011

Robert Cash to Beautification Committee

Submitted By: Donna Mayo, Administration

Department: Administration

Information

Title of Item for Agenda

Acknowledge re-instatement of Robert Cash to the Beautification Committee, term to expire 12/31/12 1st full term.

Attachments

Robert Cash Beautification Committee

CITY OF SHAWNEE



APPLICATION TO SERVE

Boards, Committees, and Commissions

Name: <u>Robert Cash</u>	Application Date: <u>6-15-11</u>
Address: <u>2314 Whispering Pine Blvd.</u>	
Mailing Address: <u>" "</u>	
Daytime Phone: <u>405-308-0911</u>	Fax: <u>878-2364</u> Email: <u>robert.cash@okbu.edu</u>
Profession: <u>Director of Facilities Management</u>	
Business Name: <u>OBU</u>	
Business Address: <u>500 W. University, Shawnee OK. 74804</u>	
Business Phone: <u>405-878-2359</u>	Fax: <u>878-2364</u> Email: <u>robert.cash@okbu.edu</u>

Do you live within the City Limits of the City of Shawnee? ☒ Yes or No (please circle)

Do you currently serve on a City board or committee? Yes or ☒ No (please circle)

How many years have you lived in Shawnee? 54

Select the Board/Committee/Commission you are interested in serving on: (please check)

☐ Airport Advisory Board	☐ Library Board
☒ Beautification Committee	☐ Oklahoma Baptist University Trust Authority
☐ Board of Adjustment (Zoning)	☐ Planning Commission
☐ Cable TV Advisory Committee	☐ Regional Park Oversight Committee
☐ Civic and Cultural Development Authority	☐ Shawnee Hospital Authority
☐ Community Service Contracts Review Committee	☐ Shawnee Urban Renewal Authority
☐ Economic Development Foundation, Inc. Board of Trustees	☐ Tourism Advisory Committee
☐ Housing Authority	☐ Traffic Commission
	☐ Building Code Board of Appeals
	☐ Other:

Why are you interested in serving on the Board/Committee/Commission selected above?

I was a member of the Beautification Committee but recently resigned because of a scheduling conflict. The committee now meets at a different time. I would like to resume serving our community.

What will make you a good board member and what skills or knowledge do you have that would be relevant to this board/committee/commission?

My passion for horticulture. I have extensive experience in design, construction and maintenance of facilities, grounds, roadways, parking, etc.

What civic or volunteer activities (if any) are you currently involved in?

None

List education, including degree(s) earned:

Shawnee High School

Have you ever served on a City-appointed board/committee/commission before? If so, which ones and for how long did you serve?

Beautification Committee, 1 term

Please include up to three personal or professional references:

Name	Relationship	Phone Number
David Whitlock	President of OBU	878-2002
James Bryce	acquaintance	919-5035
Brian McDougal	acquaintance	878-1601

PLEASE READ CAREFULLY:

Appointment by the Commission is for one term and individuals may not serve more than two consecutive full terms. Appointment to a second term remains at the discretion of the City Commission.

My signature affirms that all information contained herein is true to the best of my knowledge, and that I understand that any misstatement of fact or misrepresentation of credentials may result in disqualification from further consideration.

Signature Robert Case Date 6-15-11

Applications are retained on file for one (1) year. Applicants are encouraged to include a letter of interest with this application. Thank you for your interest in serving Shawnee.

Send application form to:

Shawnee City Clerk
PO Box 1448
Shawnee, OK 74802
878-1605 (phone)
878-1581 (fax)
dmayo@ShawneeOK.org

Regular Board of Commissioners

2. e.

Meeting Date: 07/05/2011

Bring it Home Energy Conservation program

Submitted By: Donna Mayo, Administration

Department: Administration

Information

Title of Item for Agenda

Authorize the City Manager to sign a commitment letter to participate in the Bring It Home Energy Conservation program.

Attachments

Bring it Home Project

RECOMMENDATION TO:

MAYOR

BOARD OF CITY COMMISSIONERS
CITY OF SHAWNEE**RECOMMENDATION FROM:**CITY OF SHAWNEE
PLANNING COMMISSION**SUBJECT:**FOR: Recommendation concerning the "Bring it Home" project
and adoption of the International Energy Conservation
Code.

PLANNING COMMISSION MEETING DATE:

June 1, 2011

PLANNING COMMISSION RECOMMENDATION:

City participate in the " Bring it Home " project on a
voluntary basis.

VOTE OF THE PLANNING COMMISSION:

MEMBERS PRESENT: 6

MEMBERS:	1ST	2ND	AYE	NAY	ABSTAIN	COMMENTS
PRINCE						ABSENT
HOSTER			X		X	
CARTER		X	X			
HOLT			X			
TURNER (VICE)			X			
SILVIA	X		X			
SALTER			X			

RESPECTFULLY SUBMITTED,

Karen Drain

SECRETARY, PLANNING COMMISSION

ACTION BY CITY COMMISSION:

PUBLIC HEARING SET: _____

DATE OF ACTION: _____

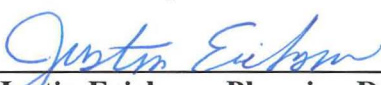
ADOPTED _____ DENIED _____



City of Shawnee
Community Development Department
222 N. Broadway
Shawnee, OK 74801
(405) 878-1665 Fax (405) 878-1587
www.ShawneeOK.org

MEMORANDUM

AGENDA: July 5, 2011
TO: Shawnee City Commission

FROM: 
RE: Justin Erickson, Planning Director
Bring It Home Program

Summary

The Bring It Home campaign is an initiative by the Oklahoma Sustainability Network to reduce energy costs and promote energy-efficient building codes. The State of Oklahoma Uniform Code Commission (which Shawnee must comply with) may require compliance with the 2009 Energy Conservation Code in the future.

Technical training is currently available to City staff and the development community through the Bring It Home program at no charge. See: www.bringithomeok.org for more information.

Recommendation from Planning Commission

The Planning Commission held a special meeting/workshop on May 25, 2011 to discuss the Bring It Home program. The development community was invited and several interested individuals attended the meeting.

At their June 1 regular meeting, the Planning Commission voted to recommend participation in the program, with the stipulation that any adopted code be implemented on a voluntary-only basis, unless otherwise required by the State.

Staff Recommendation

Staff requests authorization to participate in the Bring It Home program and requests consent for the City Manager to sign the attached commitment letter.

Adoption of the code and use of the code on a voluntary-only basis may be proposed by Staff in early 2012 following technical training and additional discussion with stakeholders.

Mayor

LINDA PETERSON

**The City of Shawnee**

PO Box 1448

Shawnee Oklahoma 74802-1448
(405) 273-1250 Fax (405) 878-1581www.ShawneeOK.org**Commissioners**PAM STEPHENS
FRANK SIMS
JAMES HARROD
BILLY COLLIER
JOHN WINTERRINGER
STEVE SMITH

June 20, 2011

OSN Energy Codes Project: Bring it Home
Jim Roth, Project Director
c/o Phillips Murrah Law Firm
101 N. Robinson, Corporate Tower, 13th Floor
Oklahoma City, OK 73102

Re: Commitment of City of Shawnee (the "City") to the Oklahoma Sustainability Network Energy
Codes Project: Bring it Home (the "Project")

Dear Mr. Roth:

The purpose of this letter is to notify you of the City's desire to officially engage the services of the Project to assist the City in the adoption of IECC 2009 (the "Code") as an optional/voluntary building code for residential construction within the jurisdiction of the City. The Project will provide numerous resources to the City, including but not limited to training and workshops for code officials, inspectors, contractors, home builders and City staff regarding the Code, including written and online resources to assist with same.

The City acknowledges that the Project will utilize valuable, limited resources on behalf of the City, and in return the City is willing to consider formally adopting the Code on a voluntary basis and agrees to make a good faith effort to formally adopt the Code pursuant to a resolution no later than December 31st, 2011. In return for the City's commitment in the form of this letter, executed by an official of the City on behalf of the City, the Project team agrees to work with the City to help effectuate the official adoption of the Code.

By my signature below, I acknowledge that the City and I shall make our best efforts to formally adopt the Code on a voluntary basis for residential construction within the time frame provided above. I look forward to working with the Project team to adopt sustainable building codes for the City in order to reduce energy consumption and costs, as well as the negative impact on the environment and the economy.

Sincerely,

Brian McDougal
City Manager

Regular Board of Commissioners

2. f.

Meeting Date: 07/05/2011

Safe Routes to School project

Submitted By: Donna Mayo, Administration

Department: Administration

Information

Title of Item for Agenda

Authorize staff to advertise for bids for the Safe Routes to School Sidewalk Project.

Attachments

Memo Regarding Projects

Safe Routes to School Project

Mayor

LINDA PETERSON

**The City of Shawnee**

PO Box 1448

Shawnee Oklahoma 74802-1448

(405) 273-1250 Fax (405) 878-1581

www.ShawneeOK.org**Commissioners**

PAM STEPHENS

FRANK SIMMS

JAMES HARROD

BILLY COLLIER

JOHN WINTERRINGER

STEVE SMITH

M E M O R A N D U M

Date: June 30, 2011

To: Brian McDougal, City Manager

From: John Krywicki, P.E., City Engineer

Re: Request Authorization to Advertise for Bids

- **Lake Road Bridge Repair Project**
- **Safe Routes to School Sidewalk Project**
- **North Harrison Median Landscaping Project**

At the July 5, 2011 City Commission meeting we will request authorization to advertise the above referenced projects. All the projects have been budgeted. Construction estimate for the Lake Road Bridge Repair Project is at \$477,000; estimate for SRTS Sidewalk Project is at \$92,000, and the North Harrison Median Project is at \$75,000.

If you have any questions or need additional information, please advise.

PROPOSED SIDEWALK ON UNION

THE CITY
OF
SHAWNEE

LINDA PETERSON
MAYOR

BILLY COLLIER
COMMISSIONER
JOHN WINTERRINGER
COMMISSIONER

FRANK SIMS
COMMISSIONER
PAM STEPHENS
COMMISSIONER

JAMES HARROD
COMMISSIONER

CARL HOLT
COMMISSIONER



BRIAN McDOUGAL
CITY MANAGER

PHYLLIS LOFTIS
CITY CLERK

CYNTHIA SEMENTELLI
CITY TREASURER

PROJECT LOCATION

SURVEY CONTROL DATA

1. HORIZONTAL CONTROL:

A. HORIZONTAL CONTROL FOR THIS SURVEY IS THE NGS OKLAHOMA STATE PLANE COORDINATE SYSTEM, NAD83 (1993), LAMBERT PROJECTION (NORTH ZONE).

B. ACCURACY - THE PRIMARY CONTROL NETWORK, THE SECONDARY CONTROL NETWORK AND THE SECTION BOUNDARIES FOR THIS SURVEY ARE IN GENERAL COMPLIANCE WITH NGS SECOND ORDER, CLASS II STANDARDS FOR HORIZONTAL CONTROL (1:20,000).

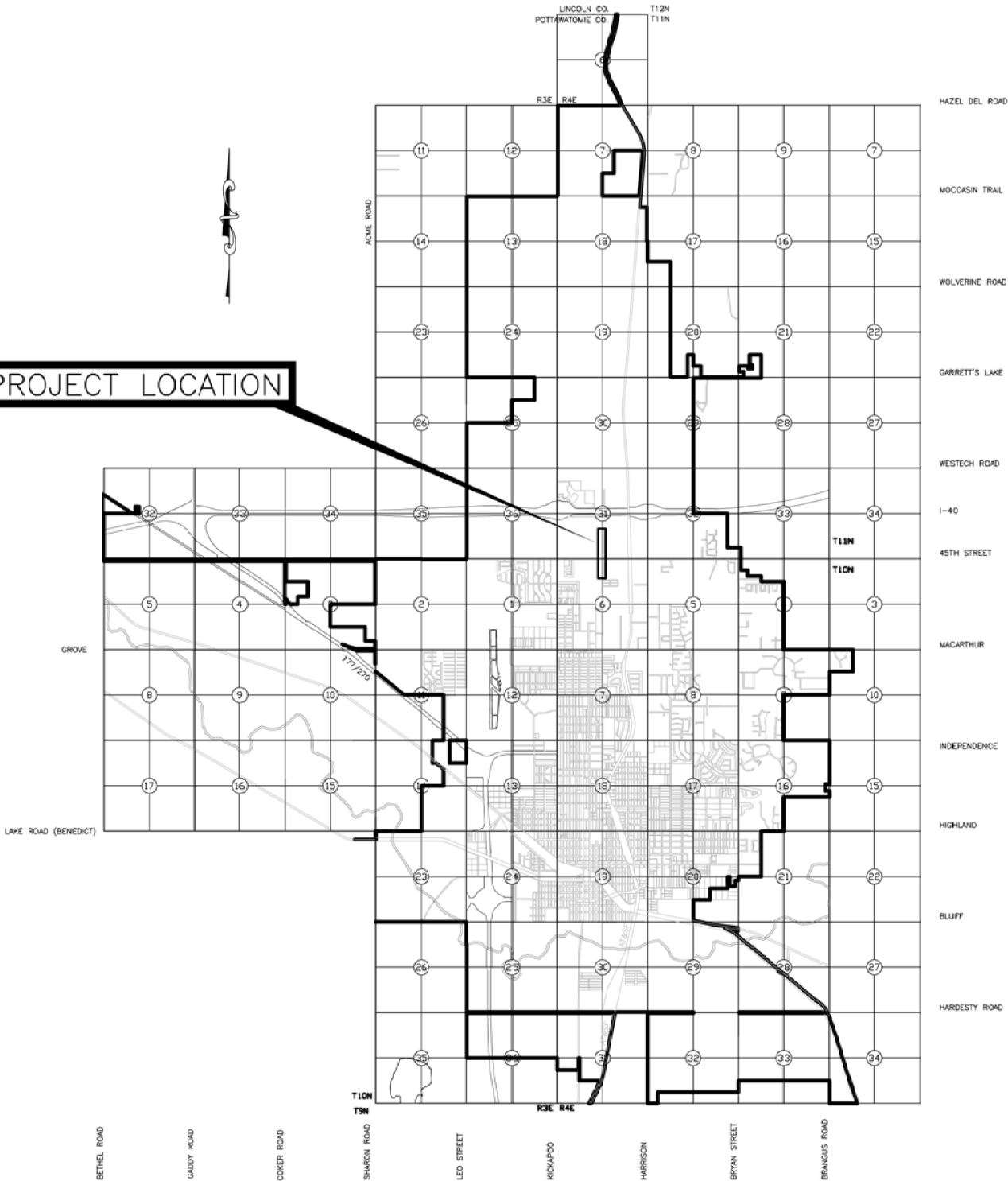
2. BEARINGS:

THE BEARINGS SHOWN HEREIN OR HEREON ARE GRID BEARINGS DERIVED FROM THE NGS OKLAHOMA STATE PLANE COORDINATE SYSTEM AND ARE NOT ASTRONOMICAL. THE ANGLE OF VARIANCE BETWEEN GRID NORTH (GN) AND THE ASTRONOMICAL TRUE NORTH (TN) IS DEPICTED DIAGRAMMATICALLY.

3. VERTICAL CONTROLS:

A. LEVEL DATUM IS MEAN SEA LEVEL NAVD 88.

B. ACCURACY - VERTICAL CONTROL FOR THIS SURVEY IS WITH THE CLOSURE REQUIREMENTS OF NGS THIRD ORDER STANDARDS AS A MINIMUM.



SHEET INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	PAY QUANTITIES & NOTES
3	DETAIL SHEET
4	LOCATION MAP
5-8	PLAN & PROFILE SHEETS
9-10	CROSS SECTION SHEETS
11	STRIPING SHEET
12	SIGNING SHEET
13	STORM WATER POLLUTION PREVENTION PLAN

UTILITY LOCATION NUMBERS

STATE WIDE	1-800-522-6543
OUT OF STATE	1-800-654-8249
LOCAL	1-405-273-1250

ENGINEERING DEPARTMENT

APPROVED AS FINAL PLANS:

MAYOR _____ DATE _____
CITY MANAGER _____ DATE _____

CITY CLERK _____ DATE _____ CITY ENGINEER _____ DATE _____

CITY OF SHAWNEE PROJECT NO. COS-PW-??-??
FEDERAL-AID PROJECT NO. SRS-155F(710)ST
STATE JOB PIECE NO. 26337(05)

N:\Engineering\Engineering Projects\Sidewalk Projects\Safe Routes - Middle School\02 Pay Quantities.dwg

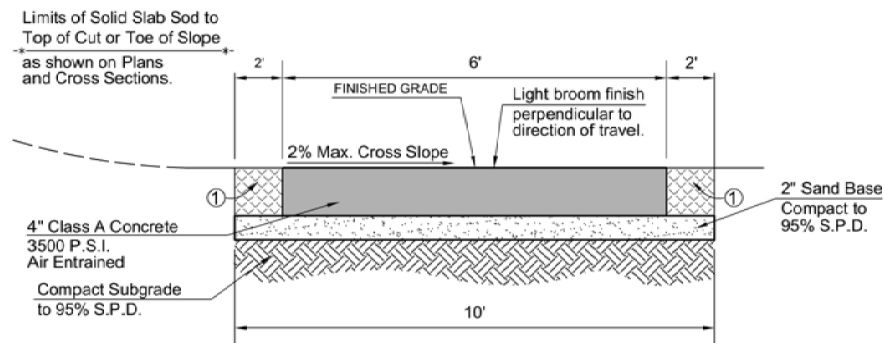
SUMMARY OF QUANTITIES – BASE BID					
ITEM NO.	SPEC. NO.	ITEM	UNIT	QUANTITY	AS–BUILT
1	610(A)	Concrete Sidewalk (4' Thick)	S.Y.	1,100.00	
2	610(A)	Concrete Trail Ramp (Type I)	(1) EA.	6.00	
3	610(A)	Concrete Flume	S.Y.	5.00	
4	301	2' Sand Base	S.Y.	1,914.00	
5		Steel Cover Plate Crossing (Skid Resistant)	EA.	2.00	
6	202(A)	Unclassified Excavation	C.Y.	260.00	
7	202(E)	Embankment	C.Y.	50.00	
8	230(A)	Solid Slab Sod	(2) S.Y.	1,025.00	
9	854(A)	2' Traffic Stripe (White)	L.F.	79.00	
10	619(B)	Remove Concrete Sidewalk	S.Y.	13.00	
11	619(B)	Remove Concrete Flume	S.Y.	8.00	
12	619(B)	Remove & Reset Sign	EA.	2.00	
13	619(B)	Remove & Reset Gas Marker	EA.	3.00	
14	619(B)	Adjust to Grade Water Valve Box	EA.	3.00	
15	719	Single Beacon School Zone Flasher W/10w Solar Engine	EA.	2.00	
16	850(A)	Sheet Alum. Signs	S.F.	19.00	
17	851(C)	2½" Square Tube Posts	L.F.	20.00	
18	880(J)	Traffic Control	L.S.	1.00	
19	201	Clearing & Grubbing	L.S.	1.00	
20	220	Erosion Control	L.S.	1.00	
21	642	Construction Staking	L.S.	1.00	
22	641	Mobilization	L.S.	1.00	

- (1) Price bid to include the cost of curb removals & tactile warnings.
(2) Contractor responsible for sodding all disturbed areas.

GENERAL CONSTRUCTION NOTES

1. ALL CONSTRUCTION AND MATERIALS, UNLESS OTHERWISE NOTED, SHALL BE IN STRICT ACCORDANCE WITH THE OKLAHOMA DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 1999 OR LATEST EDITION.
2. THE CONTRACTOR SHALL DELETE ALL REFERENCE TO MEASUREMENT AND PAYMENT ON STANDARD DETAIL SHEETS. QUANTITY TABLES ON ALL STANDARD DETAILS ARE FOR REFERENCE ONLY.
3. THE CONTRACTOR SHALL CALL OKIE AT 1–800–522–6543 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
4. EXISTING UTILITY LOCATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR FOR DEPTH AND LOCATION PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL RELOCATE OR ADJUST TO GRADE UTILITIES AS SHOWN ON THE PLANS. CONTRACTOR SHALL COORDINATE CONSTRUCTION OPERATIONS WITH ALL OTHER UTILITY COMPANIES FOR THE RELOCATION OF THEIR LINES PRIOR TO BEGINNING CONSTRUCTION.
5. EVERY EFFORT HAS BEEN MADE TO LOCATE AND SIZE ALL UNDERGROUND UTILITIES FROM AVAILABLE CITY DOCUMENTS, ON SITE SURVEYS AND UTILITY COMPANY REFERENCE MATERIAL. CONTRACTOR SHALL EXERCISE EXTREME CARE AND CAUTION IN THE EXECUTION OF HIS WORK AND SHALL ANTICIPATE THAT UTILITIES, PIPELINES AND OTHER DANGEROUS UNDERGROUND OBSTRUCTIONS EXIST AND ARE NOT SHOWN ON THE PLAN AND PROFILE SHEETS. WHEN LINES OR OTHER OBSTRUCTIONS ARE LOCATED DURING CONSTRUCTION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT SUCH AND IMMEDIATELY NOTIFY THE OWNER, UTILITY COMPANY AND ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROJECT CONSTRUCTION STAKING. INITIAL HORIZONTAL CONTROL FOR CENTERLINE AND BENCHMARK ELEVATIONS FOR GRADES SHALL BE PROVIDED BY THE ENGINEER.
7. TEMPORARY CONSTRUCTION RIGHTS–OF–WAY, IN ADDITION TO THOSE SHOWN ON THE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND OBTAINED PRIOR TO BEGINNING ANY CONSTRUCTION OR ACTIVITY ON PRIVATE PROPERTY.
8. TEMPORARY RIGHT–OF–WAY FOR THE GRADING UPSTREAM AND DOWNSTREAM DITCHES REQUIRED BY STORM SEWER CONSTRUCTION SHALL BE OBTAINED BY THE CITY TO THE EXTENT SHOWN ON THE PLANS. CONTRACTOR SHALL GRADE THE EXISTING DITCHES AND EARTHEN SWALES TO OBTAIN A MINIMUM 0.50% SLOPE. GRADING SHALL NOT BE PAID FOR AS SUCH BUT INCLUDED IN THE COST OF OTHER BID ITEMS. IF ADDITIONAL RIGHT–OF–WAY IS REQUIRED TO OBTAIN THE MINIMUM SLOPE, THIS REQUIREMENT SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION BEFORE PROCEEDING.
9. CONTRACTOR SHALL PROVIDE AN AS–BUILT SET OF PLANS TO BE TURNED IN TO THE ENGINEER AT THE COMPLETION OF CONSTRUCTION.
10. SURPLUS EXCAVATED MATERIALS ARE THE PROPERTY OF THE CONTRACTOR AND ARE HIS RESPONSIBILITY TO LEGALLY DISPOSE OF OFF SITE.
11. THE CONTRACTOR SHALL GRADE THE EXISTING DITCHES BY EITHER CUT OR FILL IN ORDER TO OBTAIN PROPER GRADE. THE GRADING SHALL BE INCLUDED IN THE COST BID FOR OTHER ITEMS. DURING SUBGRADE PREPARATIONS AND BEFORE PAVEMENT PLACEMENT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY AND ALL POSSIBLE PONDING WHICH MAY OCCUR DUE TO THESE DESIGN GRADES.
12. CONTRACTOR SHALL REMOVE ALL TREES AS DIRECTED BY THE CITY INSPECTOR. ALL ALL STUMPS, TREE LIMBS, BRUSH, AND OTHER DEBRIS SHALL BE HAULED OFF–SITE AND DISPOSED OF BY CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
13. CONTRACTOR SHALL RELOCATE FENCES AS DIRECTED BY THE CITY INSPECTOR AND AS INDICATED ON THE PLANS.
14. NEW OR RELOCATED WATER SERVICES INSTALLED SHALL LOCATE THE WATER METER WITHIN 1' INSIDE OF THE RIGHT–OF–WAY LINE.
15. ALL EXISTING VALVES AND FIRE HYDRANTS WHICH ARE INDICATED TO BE ABANDONED AND ARE IN GOOD WORKING CONDITION, SHALL BE SALVAGED BY THE CONTRACTOR AND DELIVERED TO THE CITY'S UTILITY STORAGE AREA AS DIRECTED BY THE CITY INSPECTOR.
16. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PROMPT REPLACEMENT AND/OR REPAIR OF ALL TRAFFIC CONTROL DEVICES AND APPURTENANCES DAMAGED OR DISTURBED DUE TO CONSTRUCTION.
17. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION, REPAIR, & REPLACEMENT OF ALL EROSION CONTROL DEVICES
18. A COPY OF THE EROSION CONTROL SITE PLAN MUST BE ON SITE AT ALL TIMES AND MADE AVAILABLE TO THE CITY/STATE INSPECTOR AT ALL TIMES.
19. THE GENERAL CONTRACTOR SHALL CONTACT THE TRAFFIC MANAGEMENT DIVISION AT LEAST TWO (2) WORKING DAYS PRIOR TO ANY WORK INVOLVING TRAFFIC. CALL (405) 878–1760.
20. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL PAVEMENT MARKINGS THAT WILL BE IN CONFLICT WITH THE PROPOSED WORK.

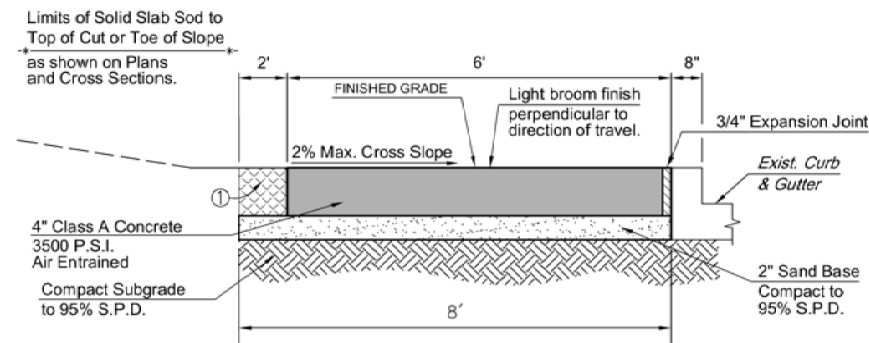
PROPOSED SIDEWALK ON UNION									
PAY QUANTITY SHEET									
SURVEY BY: <u>NA</u>		CITY OF SHAWNEE 222 BROADWAY SHAWNEE, OKLAHOMA						ENGINEERING DEPARTMENT	
DRAWN BY: <u>M.L.</u>									
CHECKED BY: <u>M.L.</u>									
REVISED	DATE	AS-BUILT	DATE						
ENGINEER		DATE		SCALE		PROJECT NO.		SHEET NO.	
<u>J.K.</u>		<u>03/10/11</u>		<u>N.T.S.</u>		<u>CCS-PW-22-22</u>		<u>02</u>	



TYPICAL SECTION No. 1
6' WIDE CONCRETE SIDEWALK

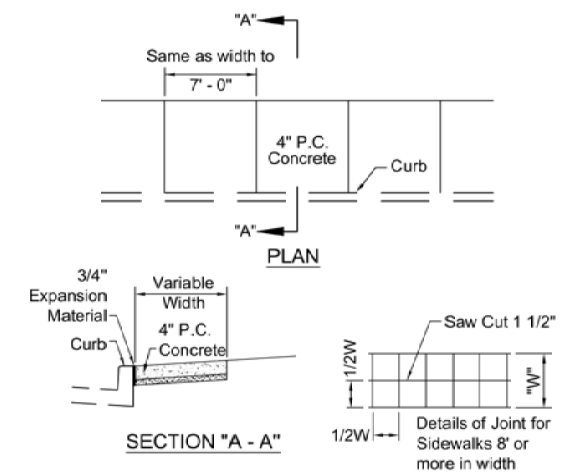
STA. 9+62.91 TO STA. 13+98.01
STA. 18+36.86 TO STA. 18+56.87

① THIS AREA TO BE BACKFILLED AND COMPACTED AS PART OF FINISHING OPERATIONS. COST OF THIS WORK IS TO BE INCLUDED IN OTHER BID ITEMS.



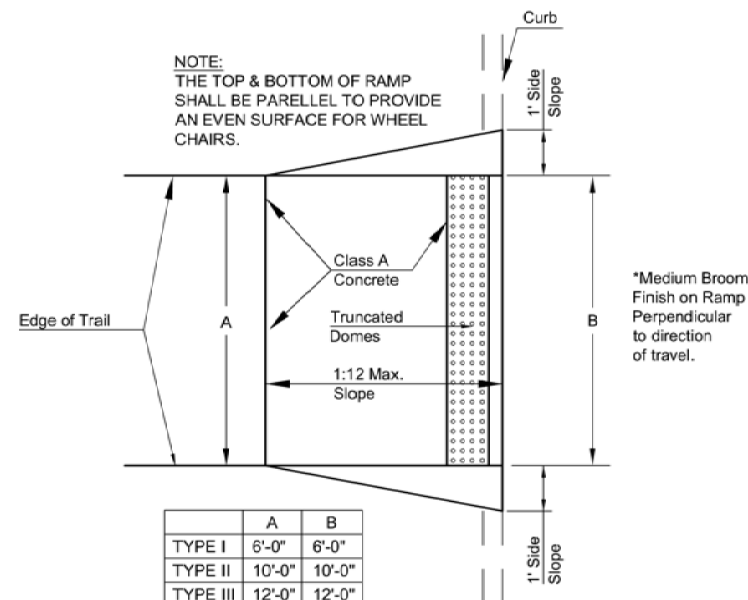
TYPICAL SECTION No. 2
6' WIDE CONCRETE SIDEWALK

STA. 13+98.01 TO STA. 18+36.86
STA. 18+56.87 TO STA. 27+78.00

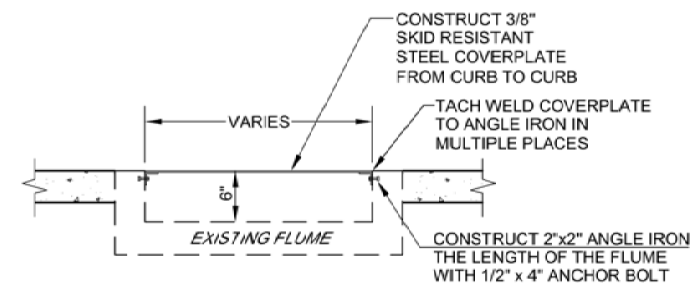


- NOTES:
- 3/4" 4" premoulded expansion material around P.P. or other structures in walk.
 - Expansion joints maximum distance = 100', used 3/4" x 4" premoulded expansion material.
 - Contraction joints maximum distance = 7', saw cut 1 1/2" deep and fill with hot poured sealer.
 - Saw cut joints within 24 hours.
 - Use 3/4" x 4" premoulded expansion joint at curb.

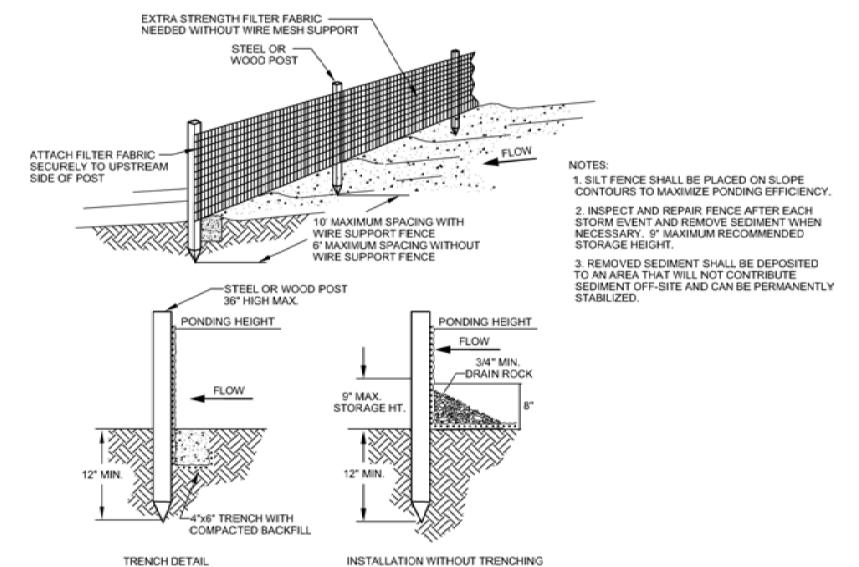
SIDEWALK JOINT DETAILS



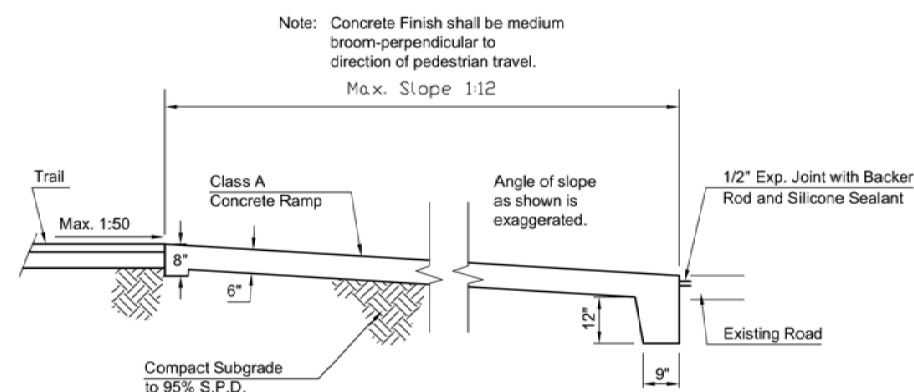
TRAIL RAMP TYPE I, II, & III



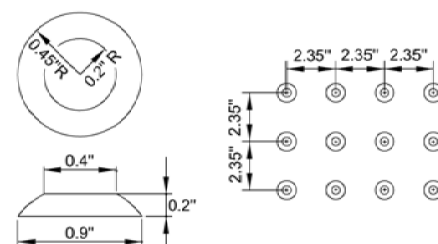
FLUME COVER PLATE DETAIL



SILT FENCE DETAIL



SECTION-TRAIL RAMP



TACTILE MARKERS - TRUNCATED DOMES

INSTALLATION NOTES

THE TRUNCATED DOME SURFACE SHALL CONTRAST VISUALLY WITH THE ADJOINING WALKING SURFACES EITHER LIGHT-ON-DARK, OR DARK ON LIGHT. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE TRUNCATED SURFACE.

RETROFIT INSTALLATIONS WILL NOT REQUIRE EXISTING DEPRESSED CURBING TO BE REPLACED. A NOMINAL 6 INCH SETBACK FROM FACE OF CURB SHALL BE ENFORCED FOR NEAR EDGE OF TACTILE DOMES.

COST OF INSTALLATION AND MATERIALS FOR TACTILE WARNING DEVICES SHALL BE INCLUDED IN THE PRICE BID OF THE RAMPS AND SIDEWALKS.

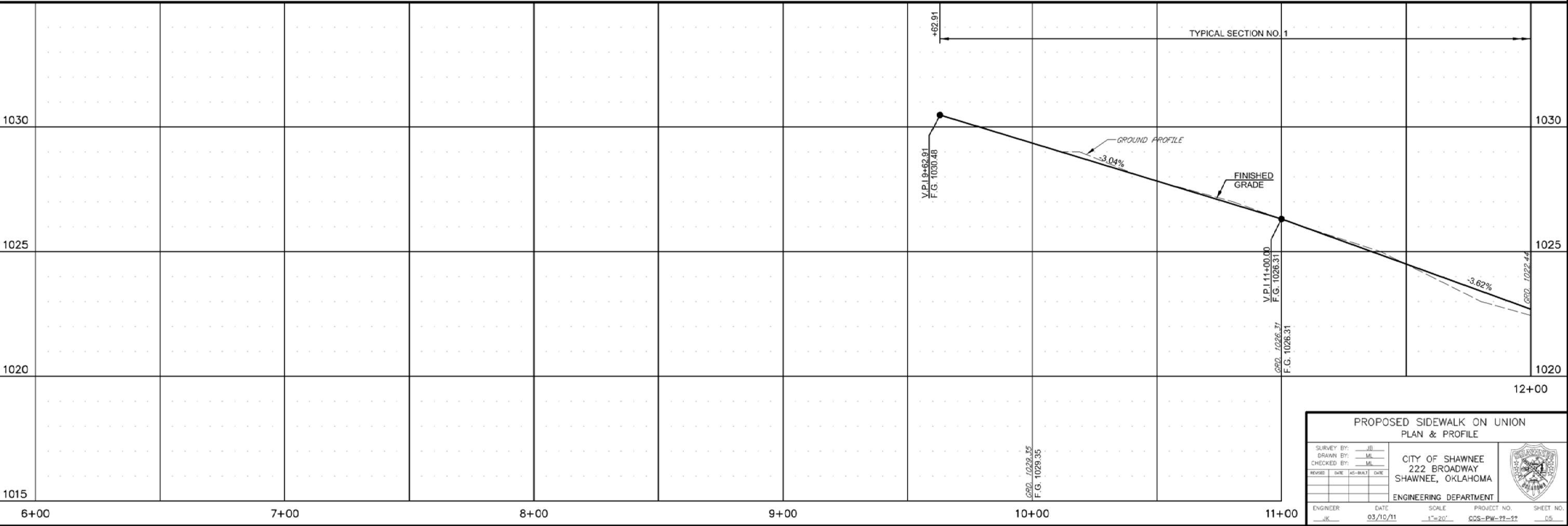
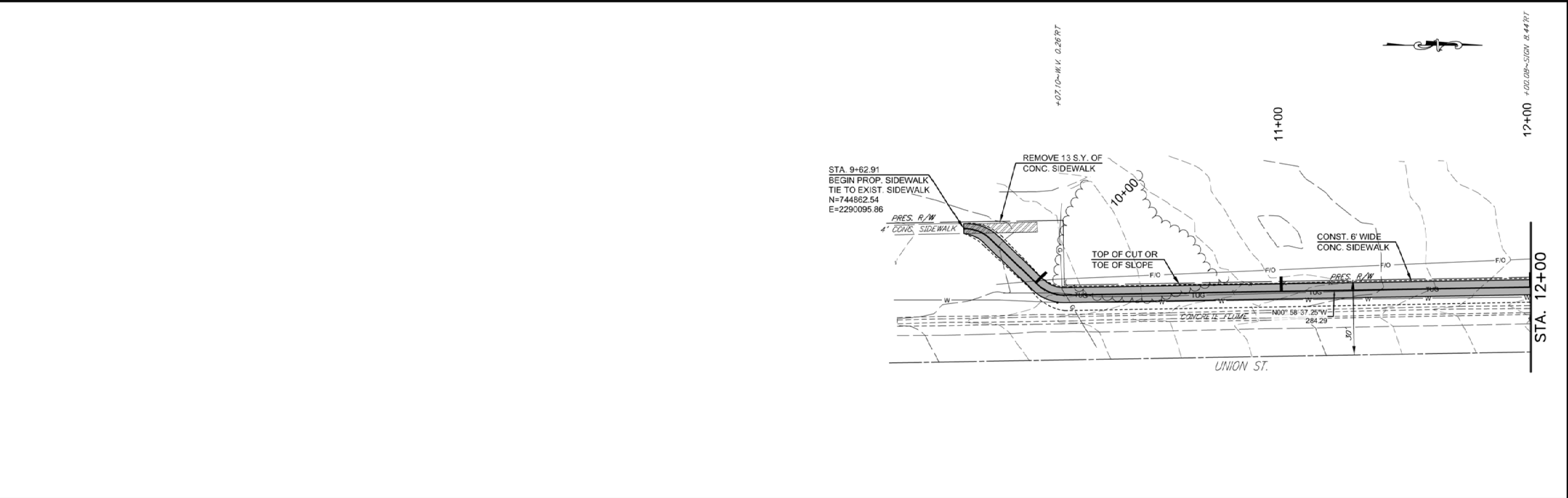
PROPOSED SIDEWALK ON UNION DETAIL SHEET

SURVEY BY: N.A.		CITY OF SHAWNEE 222 BROADWAY SHAWNEE, OKLAHOMA		
DRAWN BY: M.L.		ENGINEERING DEPARTMENT		
CHECKED BY: M.L.	DATE: 03/10/11	SCALE: N.T.S.	PROJECT NO.: COS-PV-22-22	SHEET NO.: 03

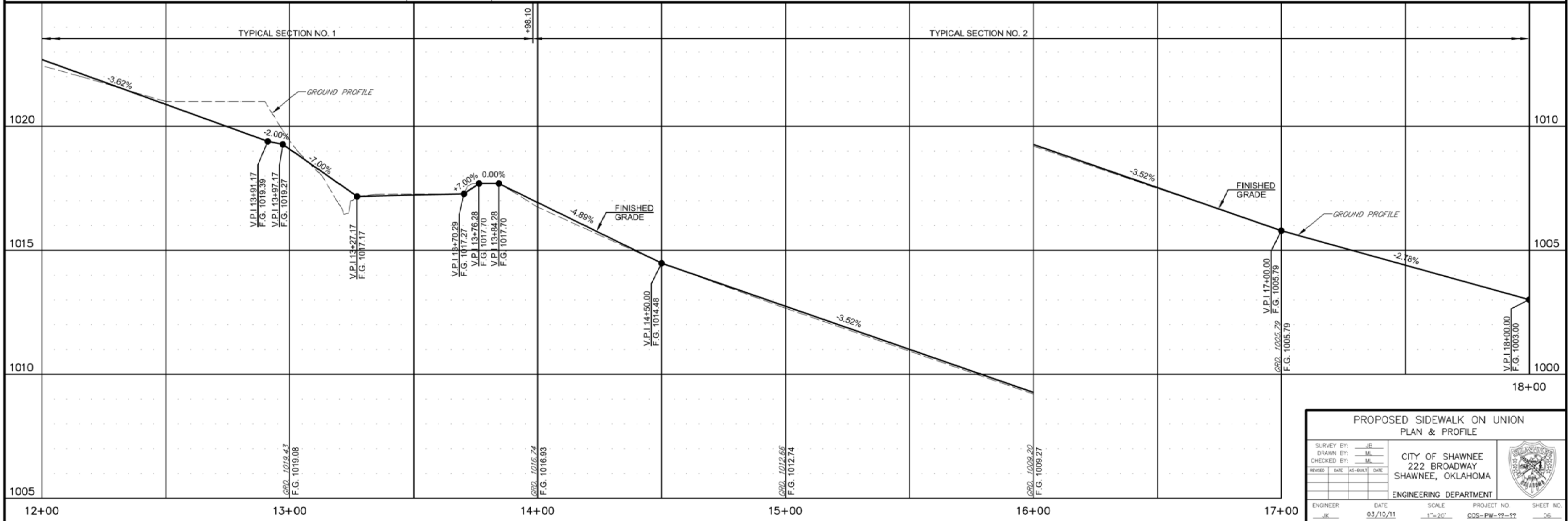
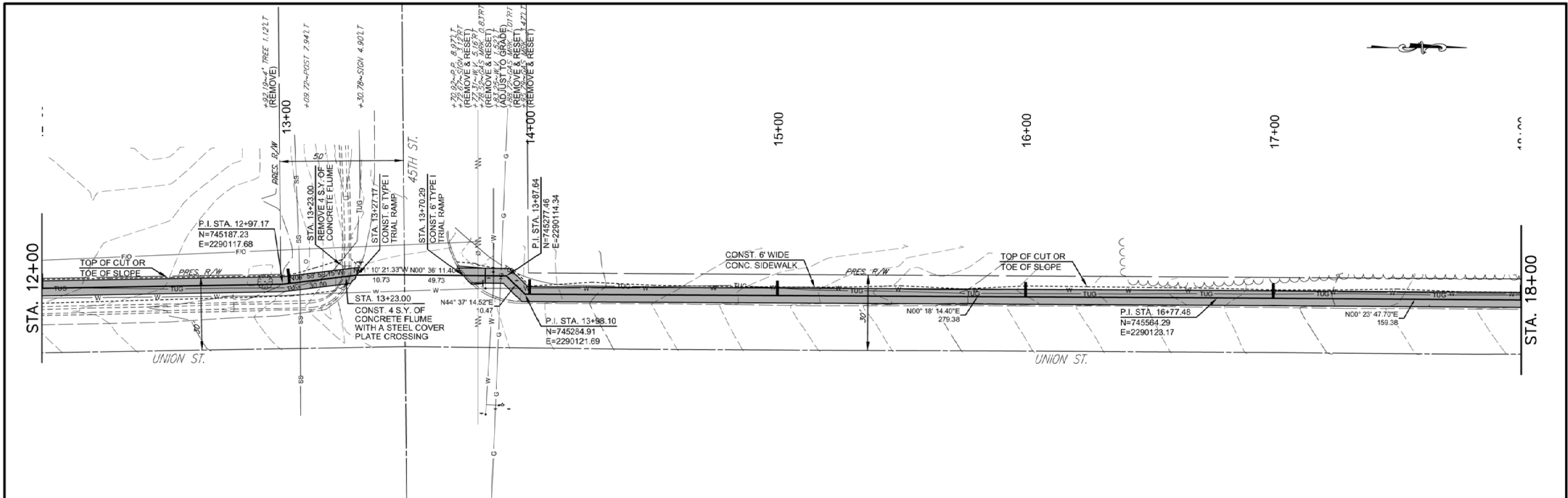


N:\Engineering\Projects\Sidewalk Projects\Safe Routes - Middle School\04 Location Map.dwg

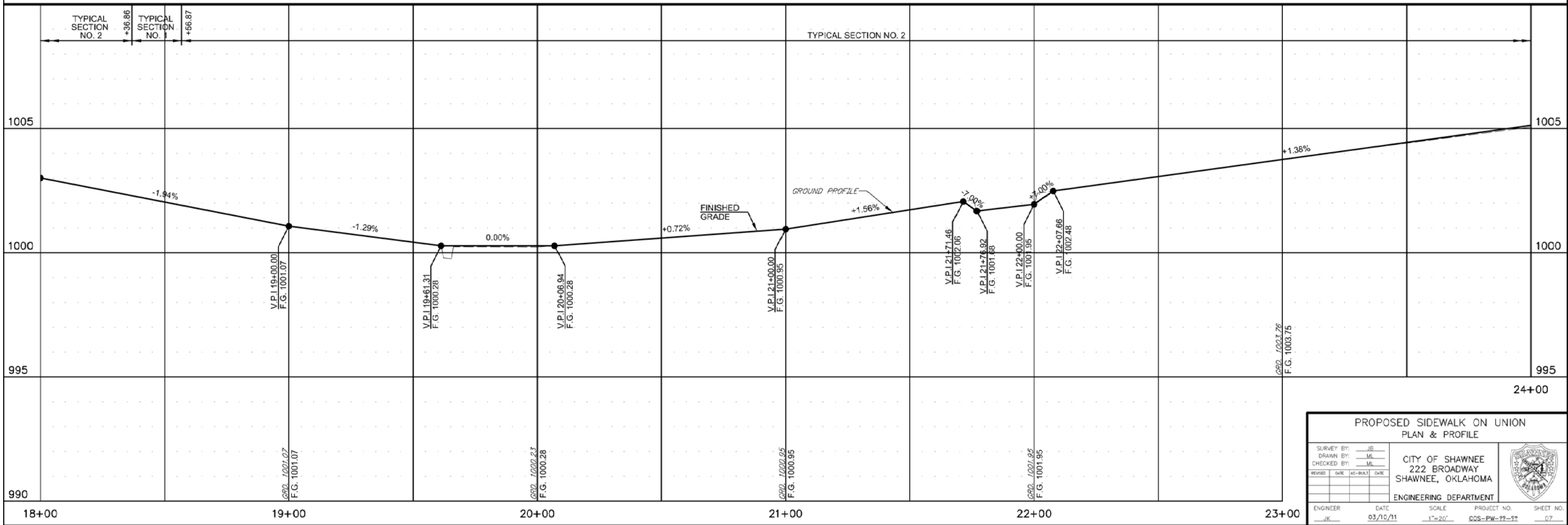
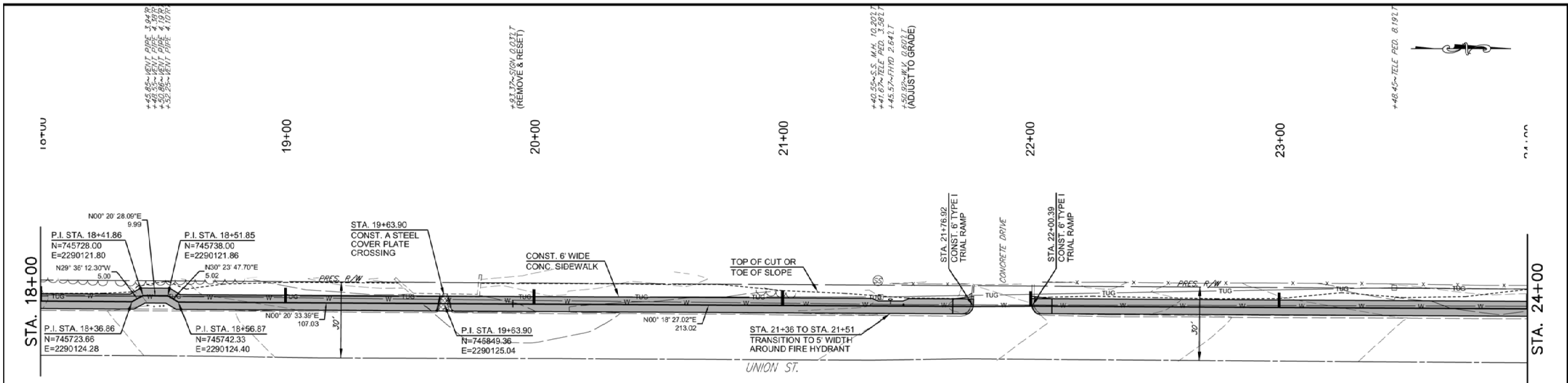
PROPOSED SIDEWALK ON UNION LOCATION MAP									
SURVEY BY: NA		DRAWN BY: M.L.		CHECKED BY: M.L.		CITY OF SHAWNEE 222 BROADWAY SHAWNEE, OKLAHOMA			
REVISION		DATE		AS-BUILT		DATE			
ENGINEER		DATE		SCALE		PROJECT NO.		SHEET NO.	
J.K.		03/10/11		1"=100'		COS-PW-22-22		04	



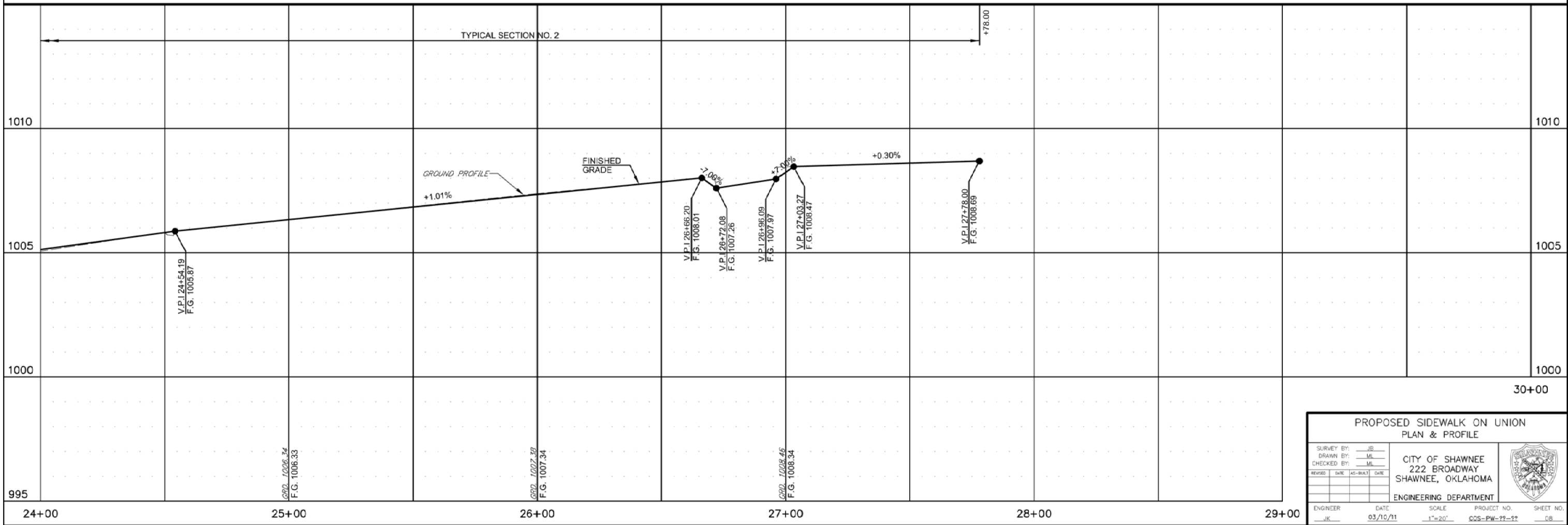
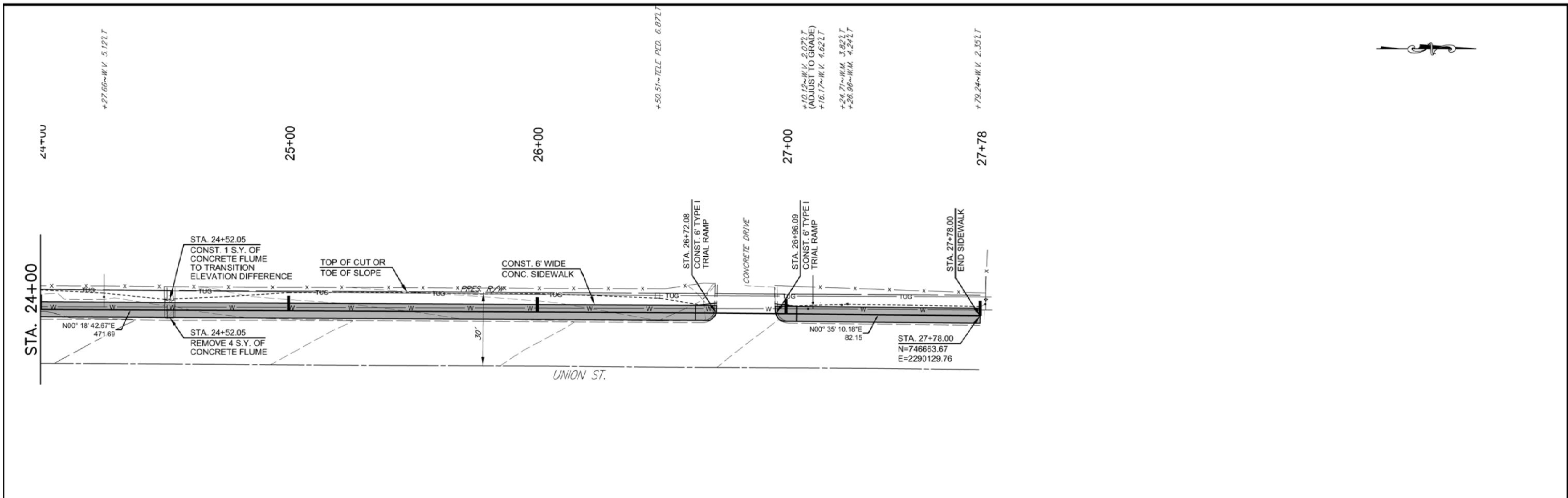
PROPOSED SIDEWALK ON UNION PLAN & PROFILE									
SURVEY BY: JB		DRAWN BY: ML		CHECKED BY: ML		CITY OF SHAWNEE 222 BROADWAY SHAWNEE, OKLAHOMA			
REVISION: DATE AS-BUILT DATE		DATE AS-BUILT DATE		DATE AS-BUILT DATE		ENGINEERING DEPARTMENT			
ENGINEER: JK		DATE: 03/10/11		SCALE: 1"=20'		PROJECT NO.: COS-PW-22-22		SHEET NO.: 05	



PROPOSED SIDEWALK ON UNION PLAN & PROFILE					
SURVEY BY: JB		CITY OF SHAWNEE 222 BROADWAY SHAWNEE, OKLAHOMA			
DRAWN BY: ML		ENGINEERING DEPARTMENT			
CHECKED BY: ML		DATE: 03/10/11		PROJECT NO.: COS-PW-22-22	
REVISIONS		DATE: 03/10/11		SHEET NO.: 06	
ENGINEER: JK		SCALE: 1"=20'		PROJECT NO.: COS-PW-22-22	

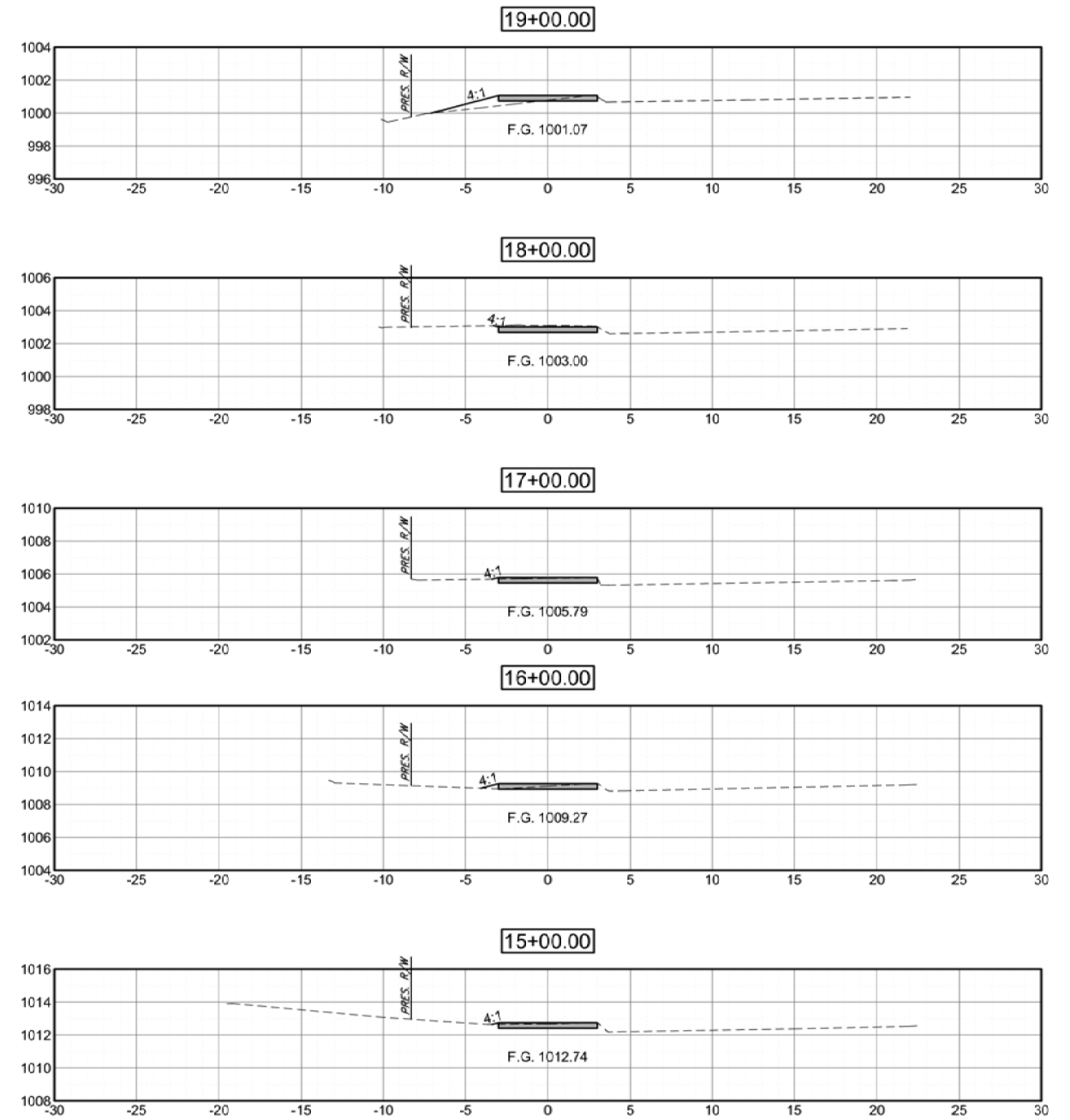
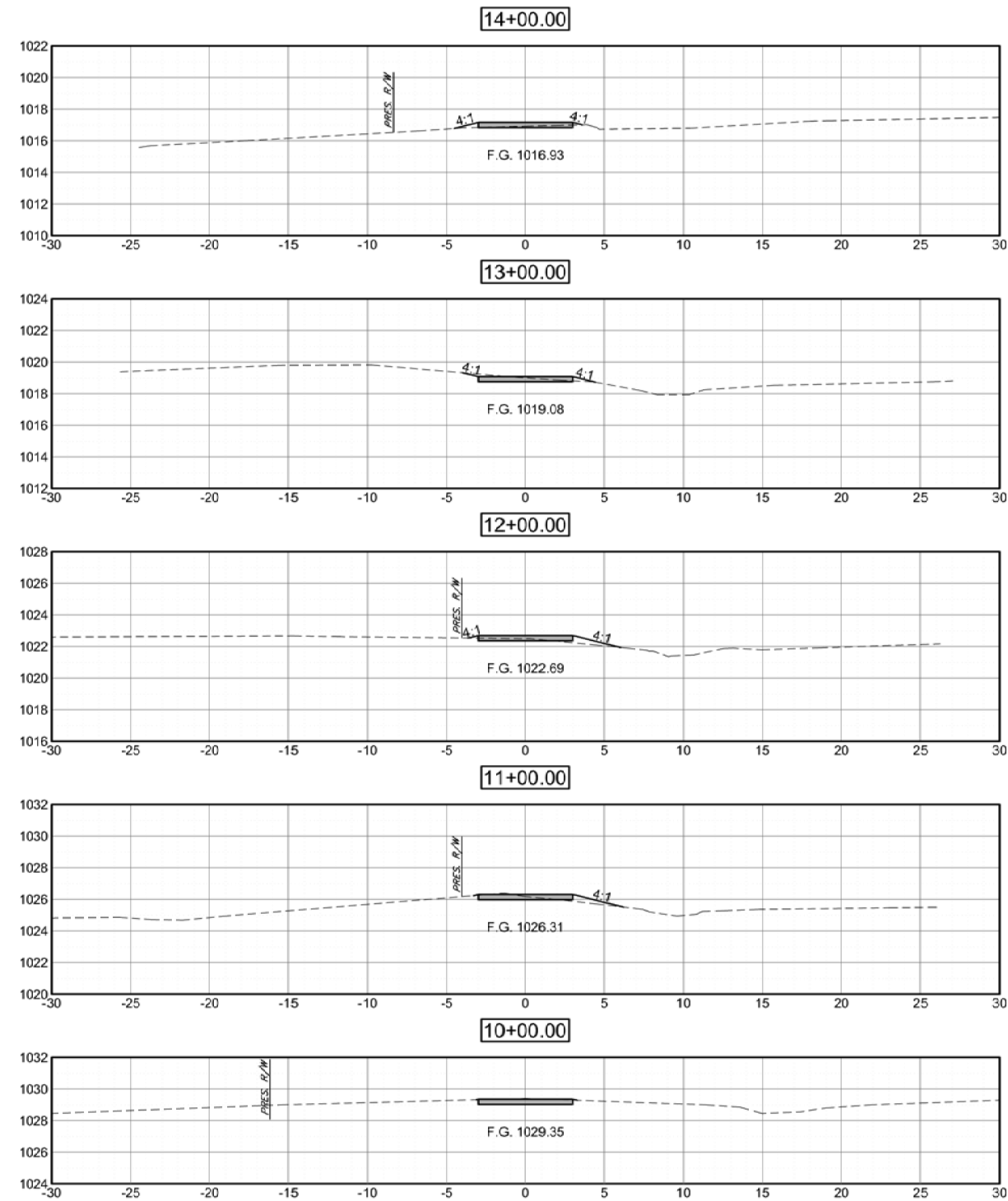


PROPOSED SIDEWALK ON UNION PLAN & PROFILE			
SURVEY BY: JB		CITY OF SHAWNEE 222 BROADWAY SHAWNEE, OKLAHOMA	
DRAWN BY: ML		ENGINEERING DEPARTMENT	
CHECKED BY: ML			
REVISION	DATE	AS-BUILT	DATE
ENGINEER	DATE	SCALE	PROJECT NO.
JK	03/10/11	1"=20'	COS-PW-22-22
			SHEET NO.
			07



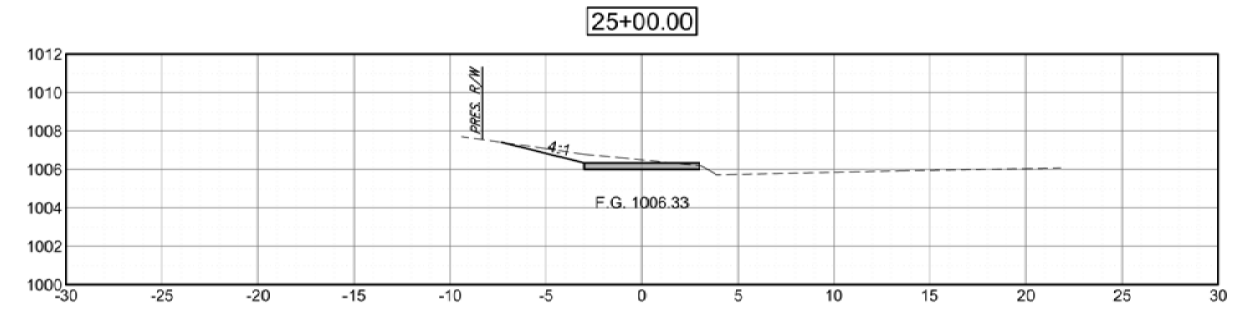
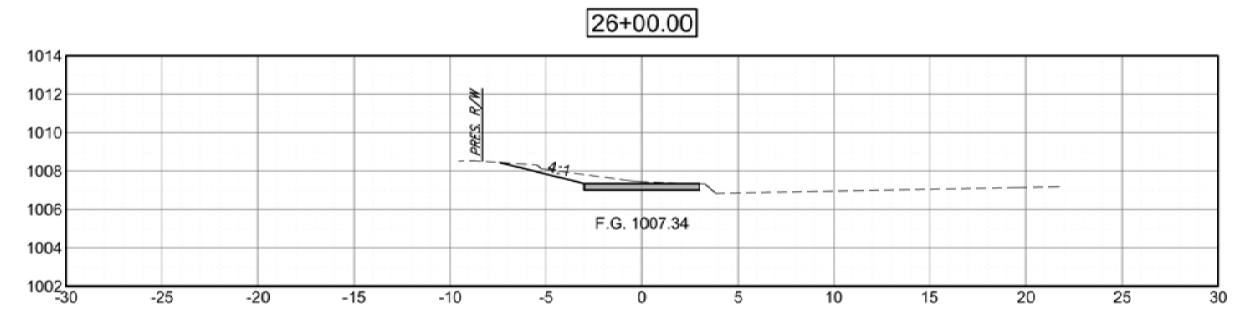
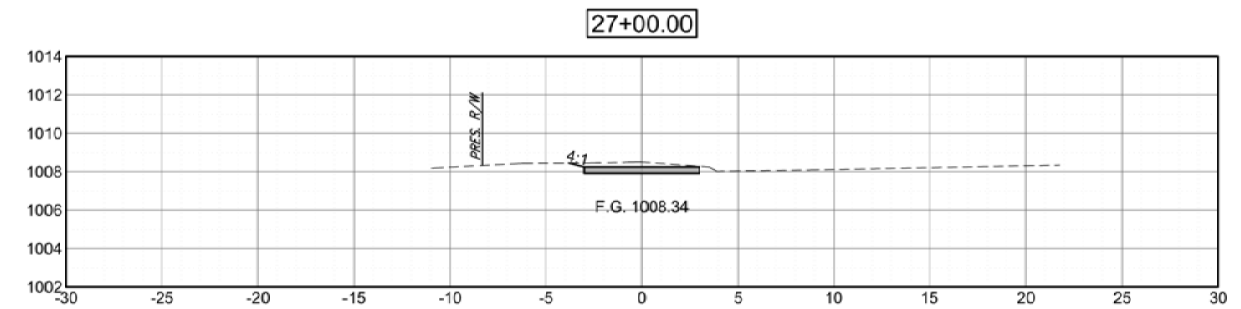
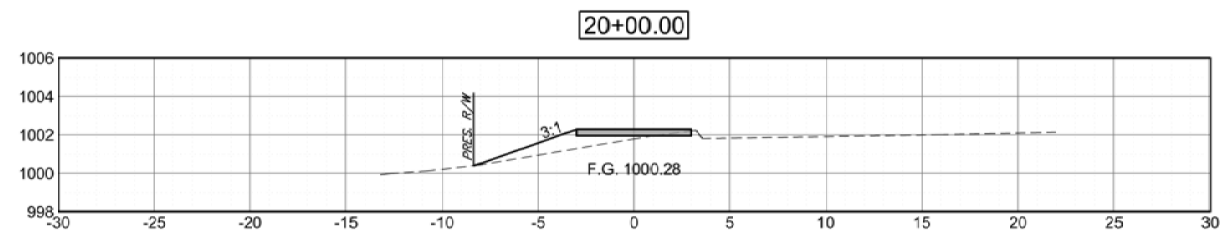
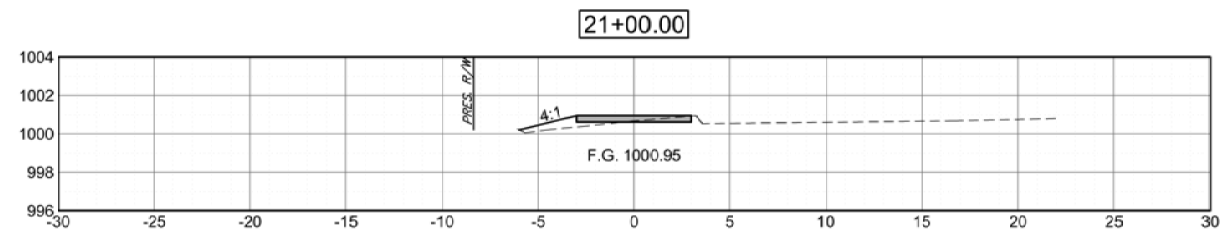
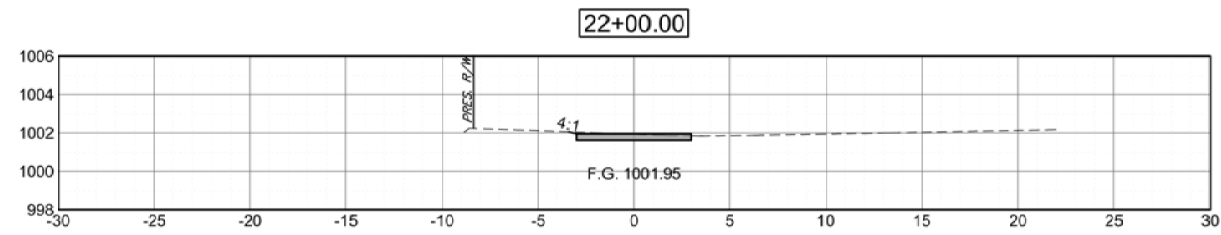
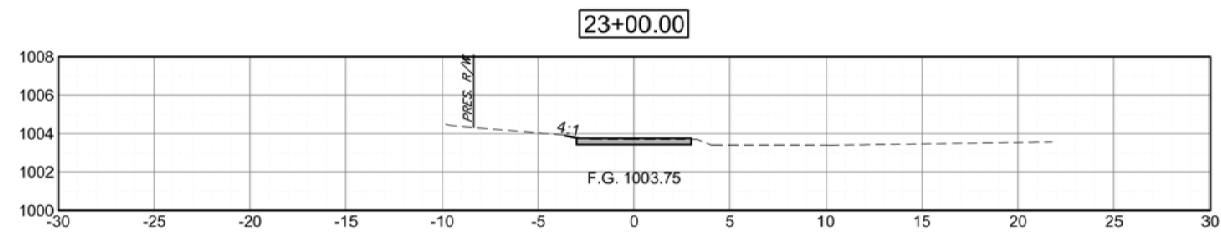
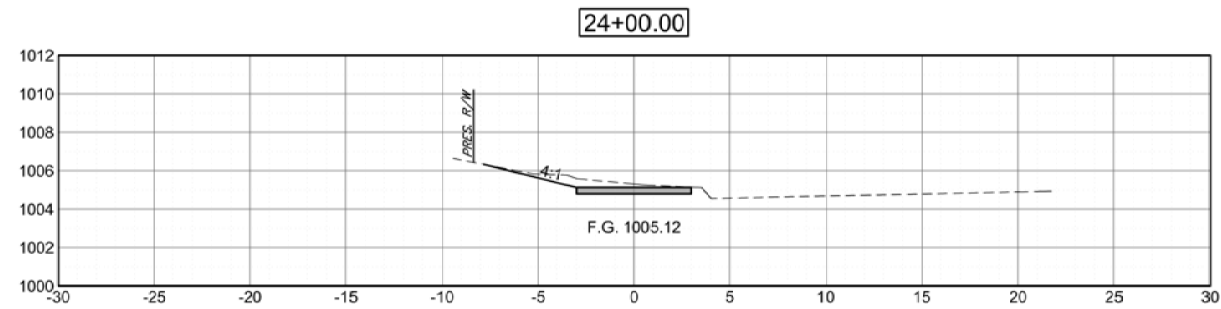
PROPOSED SIDEWALK ON UNION PLAN & PROFILE			
SURVEY BY: JB		CITY OF SHAWNEE 222 BROADWAY SHAWNEE, OKLAHOMA	
DRAWN BY: ML		ENGINEERING DEPARTMENT	
CHECKED BY: ML		PROJECT NO. COS-PW-22-22	
REVISION	DATE	AS-BUILT	DATE
ENGINEER	DATE	SCALE	SHEET NO.
JK	03/10/11	1"=20'	08

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PROPOSED SIDEWALK ON UNION CROSS SECTIONS									
SURVEY BY: JB		DRAWN BY: ML		CHECKED BY: ML		CITY OF SHAWNEE 222 BROADWAY SHAWNEE, OKLAHOMA			
REVISION	DATE	AS-BUILT	DATE			ENGINEERING DEPARTMENT			
ENGINEER	DATE	SCALE	PROJECT NO.	SHEET NO.					
JK	03/10/11	1"=5'	COS-PW-77-72	09					

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PROPOSED SIDEWALK ON UNION
CROSS SECTIONS

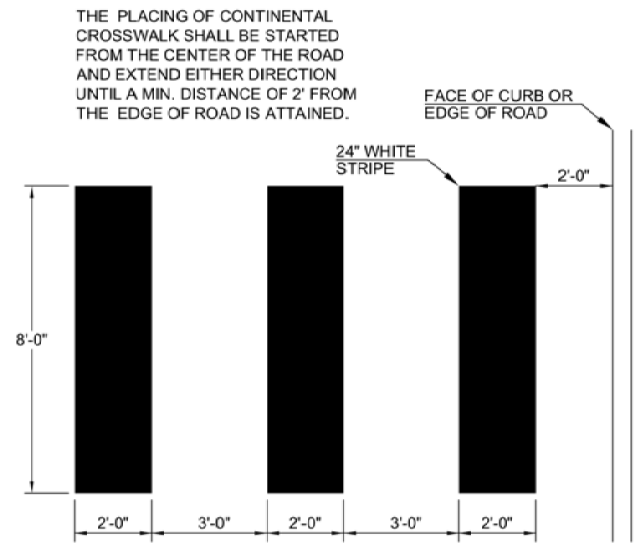
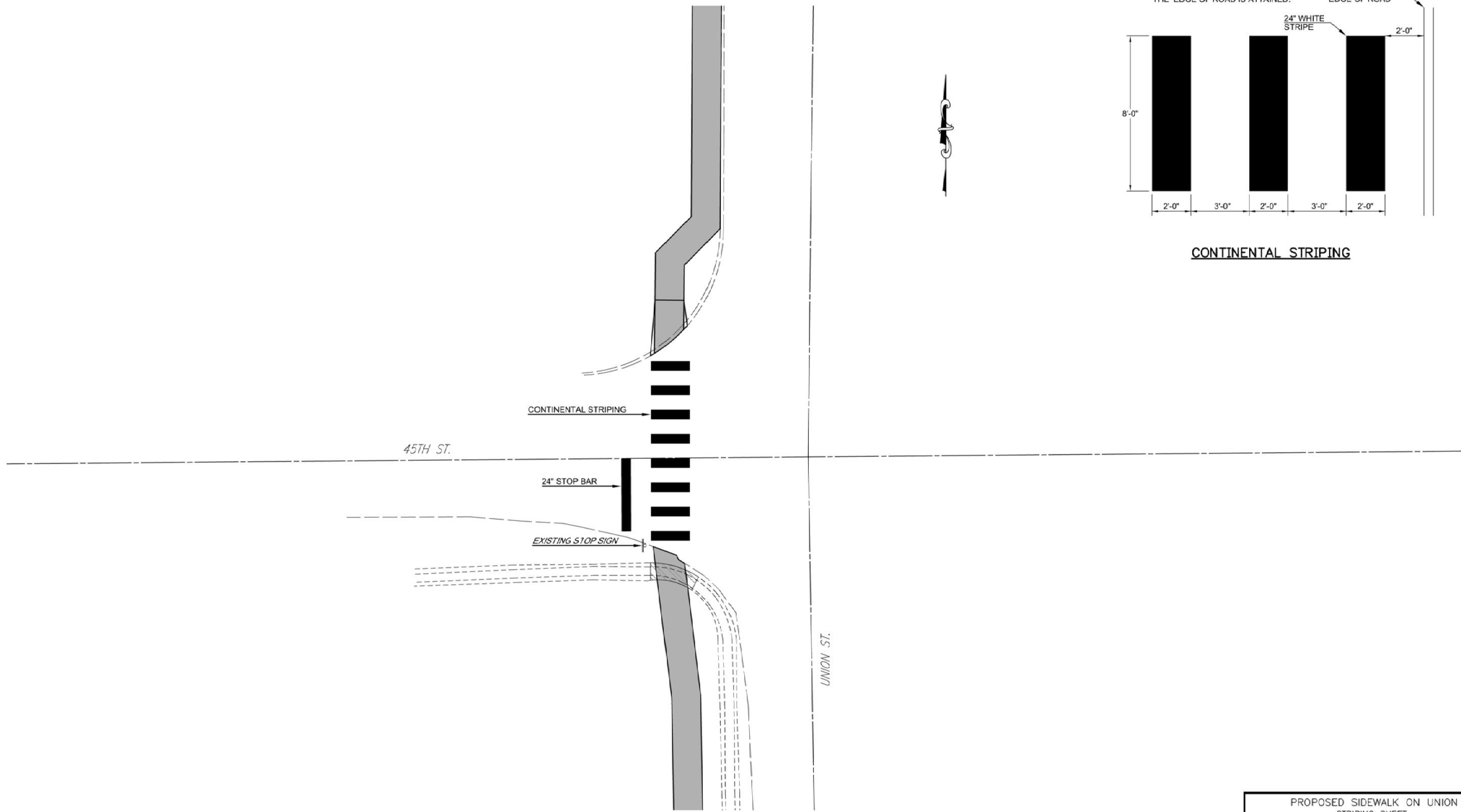
SURVEY BY: JB
DRAWN BY: ML
CHECKED BY: ML
REVISIONS: DATE AS-BUILT DATE

CITY OF SHAWNEE
222 BROADWAY
SHAWNEE, OKLAHOMA
ENGINEERING DEPARTMENT



ENGINEER: JK DATE: 03/10/11 SCALE: 1"=5' PROJECT NO.: CCR-PW-77-72 SHEET NO.: 10

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CONTINENTAL STRIPING

PROPOSED SIDEWALK ON UNION STRIPING SHEET									
SURVEY BY: N.A.		CITY OF SHAWNEE				ENGINEERING DEPARTMENT		SHEET NO.	
DRAWN BY: M.L.		222 BROADWAY				PROJECT NO.		11	
CHECKED BY: M.L.		SHAWNEE, OKLAHOMA				COS-PW-22-22			
ENGINEER	DATE	SCALE	PROJECT NO.		SHEET NO.				
J.K.	03/10/11	1"=10'	COS-PW-22-22		11				



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PROPOSED SIDEWALK ON UNION SIGNING SHEET									
SURVEY BY: NA		DRAWN BY: M.L.		CHECKED BY: M.L.		CITY OF SHAWNEE 222 BROADWAY SHAWNEE, OKLAHOMA			
REVISION		DATE	AS-BUILT	DATE	ENGINEERING DEPARTMENT				
ENGINEER	DATE	SCALE	PROJECT NO.	SHEET NO.					
J.K.	03/10/11	1"=100'	GCS-PW-22-22	12					

STORMWATER POLLUTION PREVENTION PLAN

SITE DESCRIPTION

Project Limits: ALONG THE WEST SIDE OF UNION ST FROM THE MIDDLE SCHOOL TO THE NORTH .
SIDE OF THE APARTMENT COMPLEX.

Project Description: CONSTRUCTION OF CONCRETE SIDEWALK.

Suggested Sequence of Construction: _____

- 1.) INSTALL EROSION CONTROL MEASURES
- 2.) EXCAVATE AREA FOR PROPOSED IMPROVEMENTS
- 3.) CONSTRUCT IMPROVEMENTS
- 4.) BACKFILL AREA FOR PROPOSED IMPROVEMENTS
- 5.) SODDING, SPRIGGING AND/OR SEEDING
- 6.) REMOVE EROSION CONTROL MEASURES, CLEAN SITE & DRESS-UP

Special Instructions: _____

Total Area to be Disturbed: 2 ACRES

Note: This area is normally calculated as "R/W to R/W" for the extents of the project, including any incidental construction. Each project should be assessed individually.

Weighted Runoff Coefficient: 0.70

Note: This should be determined by the hydraulic designer for the project. This value should be the average "C" factor used on the project. It should be based on the anticipated future land use.

Name of Receiving Waters: NORTH CANADIAN RIVER

Note: This should describe each named creek, river, or body of water which is receiving storm water runoff.

NOTE: THIS SHEET SHOULD BE USED IN CONJUNCTION WITH A DRAINAGE OR SITE MAP THAT ILLUSTRATES THE DRAINAGE CHARACTERISTICS AND RECEIVING WATERS FOR EACH PROJECT. SEE SHEET NUMBER(S) _____

5

EROSION AND SEDIMENT CONTROLS

SOIL STABILIZATION PRACTICES:

- ☐ Temporary Seeding
☒ Permanent Sodding, Sprigging or Seeding
☐ Mulching
☐ Soil Retention Blanket
☐ Preservation of Existing Vegetation

Other: _____

STRUCTURAL PRACTICES:

- X Siltation Screens
- Temporary Rock Bags
- Diversion, Interceptor or Perimeter Dikes
- Diversion, Interceptor or Perimeter Ditches
- Diversion Dike and Ditch Combinations
- Pipe Slope Drains
- Paved Ditch and Ditch Liner Protection
- Energy Dissipating Devices
- Temporary Sediment Basins
- Temporary Sediment Filters

OFFSITE VEHICLE TRACKING:

- ☐ Haul Roads Dampened for Dust Control
☒ Loaded Haul Trucks to be Covered with Tarpaulin
☒ Excess Dirt on Road Removed Daily
☐ Stabilized Construction Exit

ADDITIONAL INFORMATION:

PROPOSED SIDEWALK ON UNION STORMWATER POLLUTION PREVENTION PLAN																			
SURVEY BY: JMS DRAWN BY: M.L. CHECKED BY: M.L.	CITY OF SHAWNEE 222 BROADWAY SHAWNEE, OKLAHOMA																		
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ENGINEER	DATE	SCALE	PROJECT NO.	SHEET NO.															
J.K.	03/10/11	NA.	COS-PW-22-22	13															

Regular Board of Commissioners

2. g.

Meeting Date: 07/05/2011

Lake Road Bridge Repair Project

Submitted By: Donna Mayo, Administration

Department: Administration

Information

Title of Item for Agenda

Authorize staff to advertise for bids for the Lake Road Bridge Repair Project.

Attachments

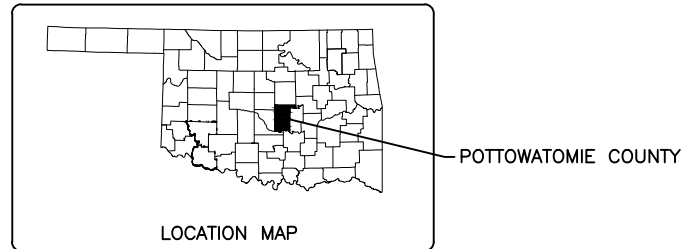
Lake Road Bridge Repair Project

5/19/2011 9:17 AM
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PLAN OF PROPOSED
BRIDGE REHABILITATION PROJECT

BRIDGE 11 REHABILITATION

BRIDGE "A" STRUCTURE NO. 63E1160N3390003
NBI NO. 00668

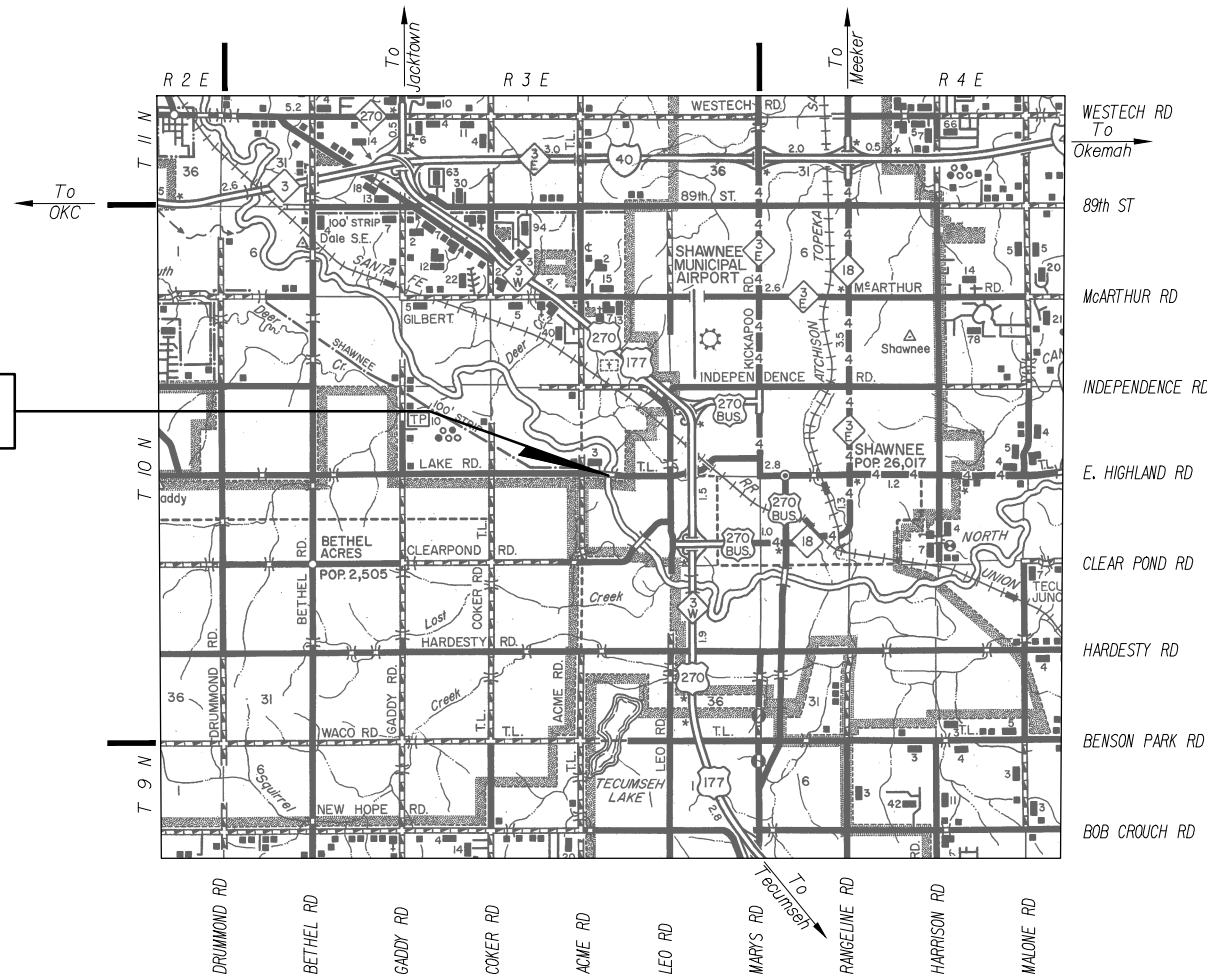


DESIGN DATA	
AADT 2011	= 1600
AADT 2031	= 2560
K (DHV/ADT)	= 10%
D	= 57%
T ₃ (% AADT)	= 10%
V	= 45 MPH
20yr.Flex ESALS	= 3.6 M

SCALES	
PLAN	1" = 20'
PROFILE HOR.	1" = 20'
VER.	1" = 20'
LAYOUT MAP	1" = 5,280'

THE FOLLOWING ODOT STANDARD
DRAWINGS ARE REQUIRED AND INCLUDED

BRIDGE	ROADWAY	TRAFFIC	
EJ-SQ-03E	GRH1-1-0	TCS1-1-01	TCS13-1-00
EJ-DTL-01E	GRH2-1-0	TCS2-1-00	TCS14-1-00
IB-5-31	GET-3-0	TCS3-1-00	TCS15-1-00
		TCS4-1-01	TCS19-1-01
		TCS5-1-00	TCS20-1-00
		TCS6-1-02	TCS21-1-00
		TCS7-1-01	TCS22-1-00
		TCS8-1-00	TCS24-1-00
		TCS9-1-01	
		TCS10-1-00	
		TCS11-1-01	



COS-PW-11-01



BRIDGE LENGTH ----- 541.33 FT. 0.10 MI.
PROJECT LENGTH ----- 541.33 FT. 0.10 MI.
EQUATIONS : NONE
EXCEPTIONS : NONE

2009 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION - ENGLISH
GOVERN, APPROVED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY
ADMINISTRATION, JANUARY 4, 2010.

THE CITY OF SHAWNEE

LINDA PETERSON
MAYOR

BILLY COLLIER
COMMISSIONER

FRANK SIMS
COMMISSIONER

JOHN WINTERRINGER
COMMISSIONER

PAM STEPHENS
COMMISSIONER

JAMES HARROD
COMMISSIONER

STEVE SMITH
COMMISSIONER

BRIAN McDUGAL
CITY MANAGER

PHYLLIS LOFTIS
CITY CLERK

CYNTHIA SEMENTELLI
CITY TREASURER

SHEET INDEX

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES
3	NOTES & SUMMARY OF PAY QTY'S - BRIDGE & ROADWAY
4	NOTES & SUMMARY OF PAY QTY'S - TRAFFIC CONTROL
5	DETAILS OF APPROACH ROADWAY
6	GENERAL PLAN & ELEVATION
7	TYPICAL SECTION (BRIDGE)
8	PIER, BEAM, AND ABUTMENT REPAIR DETAILS
9	EXPANSION JOINT REPLACEMENT DETAILS
10	CONSTRUCTION TRAFFIC CONTROL
11-13	ODOT BRIDGE STANDARDS
14-16	ODOT ROADWAY STANDARDS
17-35	ODOT TRAFFIC CONTROL STANDARDS

UTILITY LOCATION NUMBERS

STATE WIDE	1-800-522-6543
OUT OF STATE	1-800-654-8249
LOCAL	1-405-273-1250

ENGINEERING DEPARTMENT

APPROVED AS FINAL PLANS:

MAYOR	DATE	CITY CLERK	DATE
CITY MANAGER	DATE	CITY ENGINEER	DATE



GUY ENGINEERING SERVICES, INC.
Certificate of Authorization No. 1427
Renewal Date: June 30, 2012

R. AARON PECK, P.E. NO. 23988

5/19/2011 9:18 AM
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GENERAL NOTES

GENERAL CONSTRUCTION NOTES

THIS PROJECT SHALL BE CONSTRUCTED WITHOUT CLOSING THE EXISTING ROAD TO LOCAL AND THROUGH TRAFFIC. SEE STANDARD SPECIFICATIONS FOR MAINTENANCE OF LOCAL AND THROUGH TRAFFIC.

REMOVED MATERIAL TO BECOME PROPERTY OF CONTRACTOR AND IT SHALL BE DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER.

ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL MEET ODOT'S "QUALITY STANDARDS FOR TEMPORARY TRAFFIC CONTROL DEVICES"

SPECIFICATIONS:

COMPLY WITH THE REQUIREMENTS OF THE 2009 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EXCEPT AS MODIFIED BY THE PLANS AND SPECIAL PROVISIONS.

DESCRIPTION OF WORK:

THIS PROJECT CONSISTS OF THE REHABILITATION OF AN EXISTING STRUCTURE BY THE REPAIR OF THE EXISTING BRIDGE DECK, OVERLAY OF THE BRIDGE DECK, AND REPAIRS TO THE EXISTING SUPERSTRUCTURE AND SUBSTRUCTURE IN ACCORDANCE WITH THE 2009 STANDARD SPECIFICATIONS, SPECIAL PROVISIONS, DETAIL PLANS SHEETS AND NOTES.

VERIFICATION OF EXISTING CONDITIONS:

BIDDERS SHALL FULLY INFORM THEMSELVES OF THE EXISTING CONDITIONS AND ANY POTENTIAL HAZARDS UNDER WHICH THE CONSTRUCTION WILL BE PERFORMED. THE CONTRACTOR SHALL ADOPT METHODS CONSISTENT WITH GOOD CONSTRUCTION PRACTICE AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO THE EXISTING BRIDGE STRUCTURES, ROADWAY SURFACES, STRIPING, GUARDRAIL, SLOPES, SIGNS, ETC.

ANY DAMAGE DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, TO THE SATISFACTION OF THE ENGINEER.

CONTRACTOR SHALL TAKE PRECAUTIONS TO MAINTAIN THE INTEGRITY OF ALL EXISTING UTILITIES. UTILITY COMPANY INFORMATION HAS BEEN PROVIDED, BUT IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL LOCATIONS AND COORDINATE WITH UTILITY COMPANIES IF REQUIRED.

ANY DAMAGE TO THESE EXISTING ITEMS DURING CONSTRUCTION SHALL BE REPAIRED AND/OR REPLACED AT THE CONTRACTOR'S EXPENSE TO THE ENGINEER'S SATISFACTION.

ALL DIMENSIONS OF THE EXISTING COMPONENTS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL DATA NECESSARY TO CONNECT THE NEW MATERIAL AND SHALL BE SOLELY RESPONSIBLE FOR THE ACCURACY THEREOF.

UTILITY CONTACTS:		
OG&E	KEN ECHARD	(405) 553-5785
AT&T	TONY RODRIGUEZ	(405) 291-3106
MCI	RYAN ROBERTS	(580) 579-0735
SUNOCO PIPELINE	JOHNNY JONES	(405) 584-0364
LEVEL 3 COMMUNICATIONS	CLINTON GRAY	(918) 547-3757
CITY OF SHAWNEE	JOHN KRYWICKI	(405) 878-1660

PLANS:

THE ORIGINAL PROJECT PLANS WILL BE INCLUDED WITH THE BID DOCUMENTS FOR THIS PROJECT.

HORIZONTAL GEOMETRY & VERTICAL CURVE DATA:

THE INFORMATION SHOWN ON THE "GENERAL PLAN AND ELEVATION" DRAWINGS REGARDING HORIZONTAL GEOMETRY AND VERTICAL PROFILE WAS TAKEN FROM THE ORIGINAL CONSTRUCTION PLANS. THIS INFORMATION IS INCLUDED FOR INFORMATIONAL PURPOSES ONLY.

WORK SITE OBSTRUCTIONS:

ALL OBSTRUCTIONS, INCLUDING VEGETATION AND DEBRIS, INTERFERING WITH ANY DEMOLITION OR CONSTRUCTION ACTIVITIES BEING PERFORMED SHALL BE REMOVED BY THE CONTRACTOR PRIOR TO BEGINNING WORK. ALL COSTS ASSOCIATED WITH REMOVAL OF OBSTRUCTIONS SHALL BE INCLUDED IN OTHER ITEMS OF WORK.

REMOVE AND RESET SIGNS:

ANY EXISTING SIGNS CONFLICTING WITH THE CONSTRUCTION SHALL BE REMOVED, STORED AND RESET AS NECESSARY. ANY DAMAGED SIGNS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

ALL COST OF REMOVING, STORING AND RESETTNG SIGNS INCLUDING COST OF MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED IN OTHER ITEMS OF WORK.

CLASS B & C BRIDGE DECK REPAIR:

THE QUANTITIES FOR "CLASS B BRIDGE DECK REPAIR" AND "CLASS C BRIDGE DECK REPAIR" ARE FOR ESTIMATING PURPOSES ONLY. ACTUAL AREAS TO BE REPAIRED USING CLASS B OR C BRIDGE DECK REPAIR SHALL BE DETERMINED BY THE ENGINEER AFTER THE REMOVAL OF THE EXISTING CONCRETE OVERLAY.

PAYMENT ONLY FOR ACTUAL REPAIRS PERFORMED WILL BE ALLOWED. PAYMENT WILL NOT BE FOR REPAIRS NOT MADE. THE REPAIR SHALL BE IN ACCORDANCE WITH SECTION 513 OF THE STANDARD SPECIFICATIONS.

ALL COSTS OF THE REPAIR INCLUDING MATERIAL, LABOR, EQUIPMENT, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK SHALL BE INCLUDED IN THE PRICE BID PER SQUARE YARD OF "CLASS B BRIDGE DECK REPAIR" OR "CLASS C BRIDGE DECK REPAIR".

TEMPORARY DECK REPAIR PROTECTION:

ALL BRIDGE DECK REPAIR IS TO BE PROTECTED FROM TRAFFIC LOADS BY A METHOD, SUCH AS STEEL PLATES AS APPROVED BY THE ENGINEER. BRIDGE DECK PROTECTION SHALL REMAIN IN PLACE UNTIL THE CONCRETE HAS A COMPRESSIVE STRENGTH OF 2500 PSI.

THE USE OF HIGH EARLY STRENGTH CONCRETE MAY BE USED IN LIEU OF PROTECTING THE REPAIR PROVIDED A COMPRESSIVE STRENGTH OF 2500 PSI IS REACHED PRIOR TO RE-OPENING THE LANES TO TRAFFIC LOADS.

ALL COSTS OF BRIDGE DECK REPAIR PROTECTION SHALL BE INCLUDED IN OTHER ITEMS OF WORK.

CONCRETE OVERLAY:

A 2 INCH LATEX MODIFIED CONCRETE OVERLAY WILL BE APPLIED TO THE DECK AFTER ALL DECK PATCHES AND REPAIRS HAVE BEEN MADE. THE OVERLAY WILL BE SLOPED TO MATCH THE ORIGINAL DECK CROSS SLOPE. OPENINGS WILL BE MADE AT THE EXISTING SCUPPERS TO ALLOW FOR DRAINAGE. THE OVERLAY SHALL BE IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS.

ALL COSTS OF PLACING THE NEW CONCRETE OVERLAY INCLUDING THE COST OF CONCRETE, MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK SHALL BE INCLUDED IN THE PRICE BID PER SQUARE YARD OF "MULTIPLE LAYER POLYMER CONCRETE OVERLAY".

ASPHALT APPROACHES:

THE EXISTING APPROACH ROADWAY SHALL TRANSITION INTO THE NEW CONCRETE OVERLAY. THE TRANSITION SHALL BE ACCOMPLISHED BY COLD MILLING THE EXISTING ASPHALT PAVEMENT AND APPLYING A NEW ASPHALT OVERLAY TO THE EXISTING APPROACH ROADWAY. ALL MILLINGS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER.

ALL COST OF REMOVING THE EXISTING ASPHALT BY COLD MILLING INCLUDING THE COST OF ALL COLD MILLING, MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED IN THE PRICE BID PER SQUARE YARD OF "COLD MILLING PAVEMENT".

ALL COSTS OF PLACING THE NEW ASPHALT OVERLAY INCLUDING THE COST OF ASPHALT, MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED IN THE PRICE BID PER TON OF "SUPERPAVE, TYPE S4(PG70-28)OK".

CLEANING PIER CAPS:

ALL DEBRIS FROM THE PIER CAPS AND COLUMNS BEING REPAIRED SHALL BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR AND WILL BE DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER.

ALL COSTS OF CLEANING THE PIER CAPS AND COLUMNS SHALL BE PAID FOR IN OTHER ITEMS OF WORK.

SEALED EXPANSION JOINTS:

CONSTRUCT SEALED EXPANSION JOINTS AS SHOWN IN THESE PLANS AND IN ACCORDANCE WITH ODOT BRIDGE STANDARDS EJ-SQ AND EJ-DTL AND IN A MANNER APPROVED BY THE ENGINEER.

ALL COSTS TO COMPLETE THE WORK AS SPECIFIED OR AS SHOWN ON THE PLANS INCLUDING THE COST OF MATERIAL, LABOR, EQUIPMENT, AND INCIDENTALS SHALL BE INCLUDED IN THE UNIT PRICE BID PER LINEAR FOOT OF "SEALED EXPANSION JOINT".

REPAIR BRIDGE HANDRAIL:

THE EXISTING HANDRAIL WILL BE REMOVED AND REPLACED WHERE DAMAGED. THE RAIL WILL BE REPLACED IN KIND. SEE OBSOLETE STANDARD IB-5-31 FOR MATERIALS USED IN THE EXISTING HANDRAIL.

ALL COSTS OF REMOVING DAMAGED HANDRAIL INCLUDING COST OF MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED IN "REMOVE BRIDGE RAIL AND POSTS(STEEL)".

ALL COSTS OF NEW HANDRAIL INCLUDING COST OF MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED IN "BRIDGE GUARDRAIL RETROFIT".

CLEANING AND PAINTING BRIDGE METAL RAIL:

PAY ITEM "CLEANING AND PAINTING BRIDGE METAL RAIL" CONSISTS OF CLEANING AND PAINTING OF THE BRIDGE METAL TRAFFIC RAILS AS SPECIFIED IN SECTION 512 OF THE STANDARD SPECIFICATIONS FOR A CATEGORY "C" APPLICATION.

THE PAINT SYSTEM AND APPLICATION THEREOF SHALL BE IN ACCORDANCE WITH SECTION 730 "PAINT FOR STRUCTURAL STEEL" OF THE STANDARD SPECIFICATIONS.

COLLECTION AND HANDLING OF WASTE FROM THE METAL TRAFFIC RAILS SHALL BE IN ACCORDANCE WITH SECTION 512 OF THE STANDARD SPECIFICATION FOR HAZARDOUS AND NON-HAZARDOUS WASTE.

ALL COSTS OF CLEANING AND PAINTING OF THE METAL TRAFFIC RAILS INCLUDING LABOR, MATERIAL, COLLECTION AND HANDLING OF WASTE AND OTHER INCIDENTALS SHALL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF "CLEANING AND PAINTING BRIDGE METAL RAIL".

SUPERSTRUCTURE AND SUBSTRUCTURE REPAIRS:

THE EXISTING SUPERSTRUCTURE, WHICH INCLUDES THE BEAMS AND DIAPHRAGMS, BUT EXCLUDING THE DECK, AND THE EXISTING SUBSTRUCTURE, WHICH INCLUDES ABUTMENTS, PIERS, PIER CAPS, AND ANY OTHER CONCRETE STRUCTURE ASSOCIATED WITH THE BRIDGE, SHALL BE REPAIRED WITH "PNEUMATICALLY PLACED MORTAR".

THE ITEM "PNEUMATICALLY PLACED MORTAR" CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH SECTION 521 OF THE STANDARD SPECIFICATIONS. ALL REMOVED MATERIAL SHALL BECOME PROPERTY OF THE CONTRACTOR AND DISPOSED OF OFF SITE. ANY DAMAGE DONE TO EXISTING REINFORCING STEEL BY THE CONTRACTORS REMOVAL OF LOOSE CONCRETE OPERATION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, TO THE SATISFACTION OF THE ENGINEER. ANY DETERIORATED REINFORCING STEEL WITH SECTION LOSS GREATER THAN 50%, AS DETERMINED BY THE ENGINEER, SHALL BE REPORTED TO THE BRIDGE ENGINEER FOR REMEDIAL ACTION. PRIOR TO MORTAR APPLICATION, BLAST CLEAN THE CONCRETE SURFACE AND REINFORCING STEEL FREE OF DEBRIS AND CORROSION. APPLY PNEUMATICALLY PLACED MORTAR TO REPLACE DETERIORATED CONCRETE. BUILD UP MORTAR PATCH TO MATCH EXISTING LINES AND GRADES OF SUBSTRUCTURE ELEMENTS.

THE CONTRACTOR MAY PROPOSE AND USE AS AN ALTERNATE ONE OF THE FOLLOWING REPAIR METHODS:

- a. CAST-IN-PLACE CONCRETE.
- b. PRE-PLACED AGGREGATE CONCRETE.
- c. FORMED AND PUMPED CONCRETE AND MORTAR.
- d. TROWELING AND DRY-PACKING OF REPAIR MORTARS.

IF THE CONTRACTOR ELECTS TO USE A METHOD OTHER THAN PNEUMATICALLY PLACED MORTAR, THEY SHALL SUBMIT TO THE ENGINEER, FOR HIS APPROVAL, A PROPOSED WORK PLAN. THE WORK PLAN SHOULD INCLUDE SURFACE PREPARATION METHODS, PATCHING MATERIAL, BONDING AGENTS, MATERIAL PLACING METHODS, AND FINISHING METHODS. THE CONTRACTOR SHALL REPAIR A TEST AREA TO VERIFY THE EFFECTIVENESS OF THEIR PROPOSED REPAIR METHOD PRIOR TO COMMENCEMENT OF WORK ON THE ENTIRE STRUCTURE. FAULTY REPAIRS SHALL BE REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE CITY. THE COST FOR ALL PATCHING METHODS WILL BE INCLUDED IN THE PRICE BID PER SQUARE YARD OF "PNEUMATICALLY PLACED MORTAR".

GUARDRAIL INSTALLATION:

INSTALL GUARDRAIL AND GUARDRAIL END TREATMENTS ON THE APPROACH ROADWAYS AS SHOWN IN THESE PLANS AND IN ACCORDANCE WITH SECTION 623 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR WILL VERIFY IF EXISTING UTILITIES WILL BE IMPACTED BY THE INSTALLATION OF THE GUARDRAIL. IF A CONFLICT EXISTS, THE CONTRACTOR WILL GIVE THE ENGINEER 48 HOURS NOTICE TO DETERMINE AN ALTERNATE SOLUTION. IF AN ALTERNATE SOLUTION IS NOT POSSIBLE THAT GUARDRAIL SECTION WILL NOT BE INSTALLED AND WILL BE DEDUCTED FROM THE COST OF THE PROJECT.

ALL COSTS TO REMOVE THE EXISTING GUARDRAIL AS SPECIFIED OR AS SHOWN ON THE PLANS INCLUDING THE COST OF MATERIAL, LABOR, EQUIPMENT, AND INCIDENTALS SHALL BE INCLUDED IN THE UNIT PRICE BID PER LINEAR FOOT OF "REMOVAL OF GUARDRAIL".

ALL COSTS TO INSTALL THE GUARDRAIL AND GUARDRAIL END TREATMENT AS SPECIFIED OR AS SHOWN ON THE PLANS INCLUDING THE COST OF MATERIAL, LABOR, EQUIPMENT, AND INCIDENTALS SHALL BE INCLUDED IN THE UNIT PRICE BID PER LINEAR FOOT OF "BEAM GUARDRAIL W-BEAM SINGLE" OR PER UNIT PRICE OF "GUARDRAIL END TREATMENT (GET)".

RIPRAP INSTALLATION:

FILTER FABRIC AND RIPRAP WILL BE PLACED AT THE WEST ABUTMENT ON THE SOUTH CORNER IN ACCORDANCE WITH SECTION 601 OF THE STANDARD SPECIFICATIONS.

ALL COSTS TO INSTALL THE FILTER FABRIC AND RIPRAP AS SPECIFIED OR AS SHOWN ON THE PLANS INCLUDING THE COST OF MATERIAL, LABOR, EQUIPMENT, AND INCIDENTALS SHALL BE INCLUDED IN THE UNIT PRICE BID PER SQUARE YARD OF "FILTER FABRIC(RIPRAP)" AND UNIT PRICE BID PER TON OF "TYPE 1-A PLAIN RIPRAP".

BRIDGE 11 REHABILITATION				
GENERAL NOTES				
GUY ENGINEERING SERVICES, INC. 10759 EAST ADMIRAL PLACE / TULSA, OKLAHOMA 74116 / (918) 437-0282				
SURVEY BY: XX DRAWN BY: ATW CHECKED BY: JEB		CITY OF SHAWNEE 222 BROADWAY SHAWNEE, OKLAHOMA		
REVISION	DATE	AS-BUILT	DATE	
ENGINEER RAP		DATE 06/21/2011	SCALE XX	PROJECT NO. COS-PW-II-01
SHEET NO. 2				

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ROADWAY PAY ITEM NOTES:

- (R-6) WHEN NO PROFILE IS SHOWN, THE GRADE ELEVATION WILL BE SET BY THE ENGINEER, TO OBTAIN MINOR GRADE CORRECTIONS ON EXISTING ROAD.
- (R-30) PRICE BID TO INCLUDE COST OF TACK COAT, MEETING THE REQUIREMENTS OF SECTION 407 OF THE STANDARD SPECIFICATIONS.
- (R-32) ESTIMATED AT 112 LBS. PER SQ. YD. PER 1” THICK.
- (R-49) TO BECOME THE PROPERTY OF AND DISPOSED OF BY THE CONTRACTOR IN A MANNER APPROVED BY THE ENGINEER.
- (R-50) MATERIALS REMOVED SHALL NOT BE MEASURED FOR PAYMENT UNDER SECTION 202.06 UNCLASSIFIED EXCAVATION.
- (1) THIS IS AN ESTIMATED QUANTITY. EXCAVATION WILL BE REQUIRED AT GUARDRAIL INSTALLATION LOCATIONS. THIS WORK SHALL BE COMPLETED IN A MANNER APPROVED BY THE ENGINEER.
- (2) THIS IS AN ESTIMATED QUANTITY ONLY. THIS ITEM SHALL INCLUDE ALL NECESSARY WORK FOR CONSTRUCTION OF SHOULDERS UNDER NEW GUARDRAIL INSTALLATIONS.
- (3) THIS IS AN ESTIMATED QUANTITY. BORROW WILL BE REQUIRED AT GUARDRAIL INSTALLATION LOCATIONS. THIS WORK SHALL BE COMPLETED IN A MANNER APPROVED BY THE ENGINEER. ALSO INCLUDED IN THIS ITEM WILL BE BACK SLOPE AND DITCH MODIFICATIONS.
- (4) QUANTITIES FOR TRANSITION MEASURED AT 80 FEET IN LENGTH BY THE WIDTH OF THE EXISTING ROADWAY ON EACH SIDE OF BRIDGE.
- (5) DEPTH OF COLD MILLING IS 2 INCHES
- (6) ASPHALT DEPTH ESTIMATED AT 2 INCHES
- (7) SEE GENERAL NOTES SHEET.

BRIDGE PAY ITEM NOTES:

- (BR-1) PAYMENT FOR THIS ITEM WILL BE BASED UPON PLAN QUANTITIES ONLY. SEE SECTION 109.01(b) OF THE STANDARD SPECIFICATIONS.
- (BR-2) THIS IS AN ESTIMATED QUANTITY.
- (BR-3) TO BE USED TO COVER THE EXPOSED PILING AT THE WEST ABUTMENT.
- (BR-4) SEE GENERAL NOTES SHEET.

PAY QUANTITIES					
0100 ROADWAY ITEMS					
ITEM		DESCRIPTION	PAY NOTES	UNIT	QUANTITY
202(A)	0183	UNCLASSIFIED EXCAVATION	1, R-50	C.Y.	44
202(D)	0184	UNCLASSIFIED BORROW	1,3	C.Y.	50
325	5271	SEPARATOR FABRIC	2	S.Y.	196
402(E)	0225	TRAFFIC BOUND SURFACE COURSE TYPE E	2	C.Y.	44
411(C)	5955	SUPERPAVE, TYPE S4(PG 70-28 OK)	R-30,R-32, 4, 6, 7	TON	52
412	5267	COLD MILLING PAVEMENT	R-6, 4, 5, 7	S.Y.	462
619(B)	4780	REMOVAL OF GUARDRAIL	R-49, 7	L.F.	200
623(A)	0932	BEAM GUARDRAIL W-BEAM SINGLE	7	L.F.	100
623(G)	8571	GUARDRAIL END TREATMENT (GET)	7	EA.	4

PAY QUANTITIES					
0200 BRIDGE ITEMS - BRIDGE A					
ITEM		DESCRIPTION	PAY NOTES	UNIT	QUANTITY
501(G)	6309	CLSM BACKFILL	BR-3	C.Y.	10
504(C)	6250	SEALED EXPANSION JOINT	BR-1, BR-4	LF	145
505(B)	6070	REMOVING EXISTING OVERLAY	BR-4	S.Y.	1,685
505(C)	6075	MULTIPLE LAYER POLYMER CONCRETE OVERLAY	BR-4	S.Y.	1,685
512	6280	CLEANING AND PAINTING BRIDGE METAL RAIL	BR-4	LF	1,084
513(B)	6019	CLASS B BRIDGE DECK REPAIR	BR-2, BR-4	S.Y.	505
513(C)	6020	CLASS C BRIDGE DECK REPAIR	BR-2, BR-4	S.Y.	40
521(A)	6210	PNEUMATICALLY PLACED MORTAR	BR-4	S.Y.	80
601(B)	1353	TYPE 1-A PLAIN RIPRAP	BR-1	TON	106
601(I)	6312	FILTER FABRIC (RIPRAP)	BR-1	S.Y.	112
884(A)	8400	BRIDGE GUARDRAIL RETROFIT	BR-4	LF	100
884(C)	8427	REMOVE BRIDGE RAIL & POSTS (STEEL)	BR-4	LF	100

PAY QUANTITIES					
0640 CONSTRUCTION					
ITEM		DESCRIPTION	PAY NOTES	UNIT	QUANTITY
641	1399	MOBILIZATION		L. SUM	1

BRIDGE 11 REHABILITATION					
PAY QUANTITIES & NOTES (BRIDGE AND ROADWAY)					
GUY ENGINEERING SERVICES, INC. 10759 EAST ADMIRAL PLACE / TULSA, OKLAHOMA 74116 / (918) 437-0282					
SURVEY BY: XX		CITY OF SHAWNEE			
DRAWN BY: ATW		222 BROADWAY			
CHECKED BY: JEB		SHAWNEE, OKLAHOMA			
		ENGINEERING DEPARTMENT			
REVISION	DATE	AS-BUILT	DATE		
ENGINEER	DATE	SCALE	PROJECT NO.	SHEET NO.	
RAP	06/21/2011	XX	COS-PW-II-01	3	

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TRAFFIC SIGNING GENERAL CONSTRUCTION NOTES:

ANY DAMAGE CAUSED BY THE CONTRACTOR TO ANY STRUCTURES, ROADWAY SURFACES, STRIPING, RAISED PAVEMENT MARKERS, GUARDRAIL, SLOPES AND SIGNS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER.

CONSTRUCTION TRAFFIC CONTROL WILL BE INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VI OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION" AND APPLICABLE ODOT STANDARD DRAWINGS. THE CONTRACTOR SHALL PROVIDE A PROPOSED TRAFFIC CONTROL PLAN FOR APPROVAL BY THE ENGINEER PRIOR TO BEGINNING WORK IF A CHANGE TO THE TRAFFIC CONTROL PLAN IS PROPOSED.

TRAFFIC CONTROL PAY ITEM NOTES:

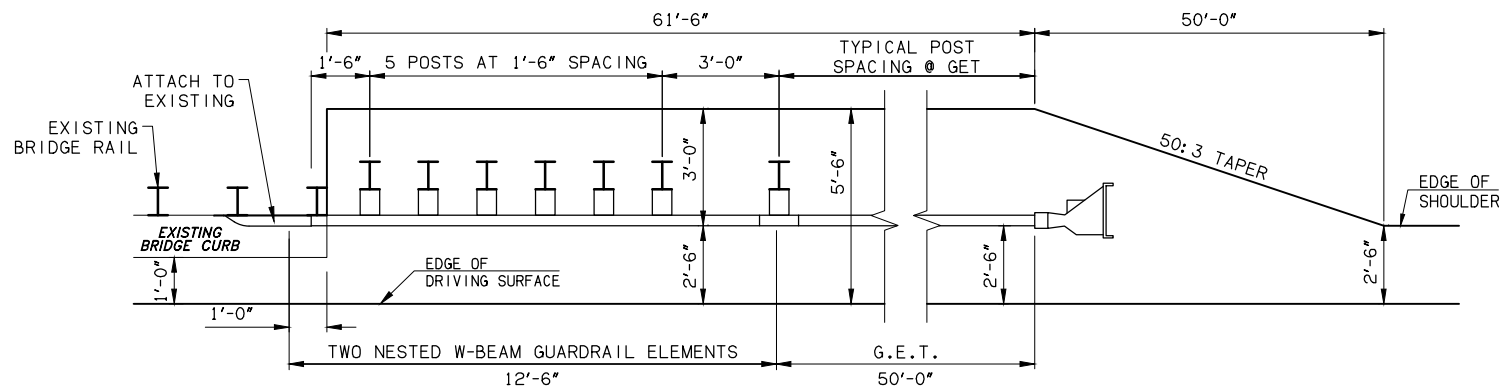
- (SP-1) AT ALL LOCATIONS WHERE THE PORTABLE TYPE PRECAST CONCRETE MEDIAN BARRIER SEPARATES TRAFFIC FROM A TERMINATING EDGE OF BRIDGE DECK THE BARRIER SHALL BE SECURED TO THE BRIDGE DECK. ANCHORAGES AND HARDWARE INSTALLED TO SECURE THE BARRIER TO THE BRIDGE DECK SHALL BE CONSTRUCTED TO KEEP THE BARRIER FROM LEAVING THE BRIDGE DECK UPON IMPACT WITH TRAFFIC. ANCHORAGES AND HARDWARE INSTALLED TO SECURE THE BARRIER TO THE BRIDGE DECK SHALL NOT OBSTRUCT TRAFFIC LANES IN ANY FASHION AND SHALL NOT BE HARMFUL TO HUMAN LIFE SHOULD A VEHICULAR COLLISION WITH THE BARRIER OCCUR.
- THE ANCHORAGES AND HARDWARE USED TO SECURE THE BARRIER SHALL BE DESIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF OKLAHOMA. THE DESIGN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. THE ANCHORAGES AND HARDWARE SHALL NOT BE INSTALLED UNTIL APPROVED BY THE ENGINEER.
- THESE ITEMS SHALL INCLUDE ALL COSTS NECESSARY TO COMPLETE THE WORK AS SPECIFIED OR AS SHOWN IN THE PLANS INCLUDING THE COST OF ENGINEERING SERVICES, MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS.
- (SP-2) PRICE BID FOR PAY ITEM INCLUDES THE INITIAL PLACEMENT AND SUBSEQUENT REPLACEMENT DURING CONSTRUCTION TO MAINTAIN ADEQUATE DELINEATION.
- (TC-1) THE CONTRACTOR SHALL FURNISH AND INSTALL SUCH LIGHTS, SIGNS, BARRICADES AND PROVIDE FLAGGERS NECESSARY FOR THE CONTROL, SAFETY AND MAINTENANCE OF TRAFFIC WHEN INSTALLING, RELOCATING OR DELIVERING PRECAST CONCRETE MEDIAN BARRIER.
- (TC-2) QUANTITY INCLUDES SUFFICIENT LENGTH OF MEDIAN BARRIER TO PROVIDE FOR THE LONGEST SECTION SHOWN ON THE PLANS. THIS SAME BARRIER WILL BE USED ON OTHER DETOUR PHASES.
- (TC-21) INCLUDED IN THE COST OF THIS ITEM SHALL BE INSTALLATION AND REMOVAL. THIS ITEM SHALL BE BID ACCORDINGLY.
- (TC-22) AMOUNT SHOWN IS AN APPROXIMATION AND THE ACTUAL AMOUNT OF REMOVAL, IF NECESSARY, SHALL BE DETERMINED BY THE ENGINEER. PRICE BID FOR PAVEMENT MARKING REMOVAL SHALL INCLUDE THE COST OF REMOVING STRIPE, ARROWS, WORDS AND SYMBOLS, AS SHOWN IN THE PLANS. THESE ITEMS MAY CONSIST OF PLASTIC, PAINT OR NON-REMOVABLE MARKING TAPE.

- (TC-26) CONSTRUCTION TRAFFIC CONTROL WILL BE INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AND APPLICABLE O.D.O.T. STANDARD DRAWINGS. PRICE BID FOR THIS ITEM SHALL BE PAYMENT IN FULL FOR THE INSTALLATION, MAINTENANCE AND SUBSEQUENT REMOVAL OF ALL NECESSARY CONSTRUCTION TRAFFIC CONTROL DEVICES REQUIRED FOR COMPLETION OF THE PROJECT.
- ALL SIGNS, BARRICADES, AND CHANNELIZING DEVICES WHICH ARE SHOWN WITH EITHER TYPE A OR TYPE C LIGHTS IN THE STANDARD DRAWINGS SHALL HAVE THE CORRESPONDING LIGHT ATTACHED DURING NON-DAYLIGHT HOURS.
- (TC-33) ALL CONSTRUCTION WORK ZONE SIGNS AND CHANNELIZING DEVICES SHALL HAVE FLUORESCENT SHEETING. THE FLUORESCENT SHEETING SHALL MEET THE REQUIREMENTS OF ASTM 4956-07 FOR TYPE VIII SHEETING.
- THE MANUFACTURER SHALL FURNISH A TYPE "D" CERTIFICATION IN ACCORDANCE WITH THE ODOT STANDARD SPECIFICATIONS (CURRENT EDITION) SUBSECTION 106.04. THE CERTIFICATION SHALL INCLUDE TEST RESULTS ON MATERIAL SUBMITTED FOR APPROVAL.
- (TC-61) ANY DAMAGE TO A FINISHED OR EXISTING SURFACE RESULTING FROM THE CONTRACTOR'S NEGLIGENCE IN THE REMOVAL OF CONSTRUCTION ZONE PAVEMENT MARKERS OR CHANNELIZING DEVICES AND THE BITUMINOUS ADHESIVE USED IN THEIR INSTALLATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE ENGINEER.
- (TC-68) TO BECOME THE PROPERTY OF THE CONTRACTOR UPON COMPLETION OF THE PROJECT.
- (TC-70) THIS ITEM IS AN ESTIMATED QUANTITY TO BE USED AS DEEMED NECESSARY BY THE ENGINEER.
- (TC-84) 60 CONSTRUCTION CALENDAR DAYS WERE USED TO COMPUTE THE SIGN DAY PAY ITEMS. THE AMOUNT OF CALENDAR DAYS USED TO COMPUTE THE SIGN DAY PAY ITEMS IS AN ESTIMATED QUANTITY ONLY, BASED ON THE CURRENT O.D.O.T. STANDARDS AND SUGGESTED CONSTRUCTION SEQUENCE FOR THIS PROJECT. THESE ESTIMATED SIGN DAY QUANTITIES MAY CHANGE AS THE PROJECT'S CONSTRUCTION TRAFFIC CONTROL IS MODIFIED DURING CONSTRUCTION.
- (TS-11) QUANTITY SHOWN INCLUDES 1,485 L.F. TRAFFIC STRIPE (PLASTIC)(WHITE) AND 1,485 L.F. TRAFFIC STRIPE (PLASTIC)(YELLOW) AND WILL BE MEASURED BY THE LINEAR FOOT OF FOUR INCH (4") WIDE TRAFFIC STRIPE. THIS STRIPE SHALL BE APPLIED AT A THICKNESS OF 70 MILS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND APPROVAL BY THE ENGINEER.
- (1) THE PORTABLE TRAFFIC SYSTEM CONSISTS OF TWO PORTABLE TRAFFIC SIGNALS PLACED AND MAINTAINED AT LOCATIONS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. ALL COSTS OF LABOR, EQUIPMENT, DELIVERY, INSTALLATION, MAINTENANCE, AND REMOVAL OF TRAFFIC SIGNAL SYSTEM ARE INCLUDED IN THIS PAY ITEM.

PAY QUANTITIES					
0300 TRAFFIC ITEMS					
ITEM		DESCRIPTION	PAY NOTES	UNIT	QUANTITY
823	8478	(SP) PORTABLE TRAFFIC SIGNAL SYSTEM	1, TC-26, TC-84	S.D.	90
855(A)	8812	TRAFFIC STRIPE (PLASTIC) (4" WIDE)	TS-11	L.F.	2,970
855(A)	8825	TRAFFIC STRIPE (PLASTIC) (24" WIDE)	TC-26	L.F.	24
877(B)	8484	DELIVER PORTABLE LONGITUDINAL BARRIER	SP-1, SP-2, TC-1, TC-2, TC-26, TC-68,TC-61,TC-84	L.F.	1,000
877(C)	8486	RELOCATE PORTABLE LONGITUDINAL BARRIER	SP-1, SP-2, TC-1, TC-26, TC-61,TC-84	L.F.	1,000
880(B)	8818	CONSTRUCTION SIGNS 0 TO 6.25 S.F.	TC-26, TC-33,TC-84	S.D.	900
880(B)	8821	CONSTRUCTION SIGNS 6.26 TO 15.99 S.F.	TC-26, TC-33,TC-84	S.D.	0
880(B)	8824	CONSTRUCTION SIGNS 16.00 TO 32.99 S.F.	TC-26, TC-33,TC-84	S.D.	1,125
880(C)	8842	CONSTRUCTION BARRICADES (TYPE III)	TC-26, TC-33,TC-84	S.D.	360
880(E)	8860	WARNING LIGHTS (TYPE A)	TC-26, TC-84	S.D.	1,620
880(F)	8878	DRUMS	TC-26, TC-33,TC-61,TC-84	S.D.	3,960

BRIDGE 11 REHABILITATION			
PAY QUANTITIES & NOTES (TRAFFIC)			
GUY ENGINEERING SERVICES, INC. 10759 EAST ADMIRAL PLACE / TULSA, OKLAHOMA 74116 / (918) 437-0282			
SURVEY BY: XX DRAWN BY: ATW CHECKED BY: JEB		CITY OF SHAWNEE 222 BROADWAY SHAWNEE,OKLAHOMA	
REVISIONS		ENGINEERING DEPARTMENT	
ENGINEER RAP		DATE 06/21/2011	SCALE XX
PROJECT NO. COS-PW-II-01		SHEET NO. 4	

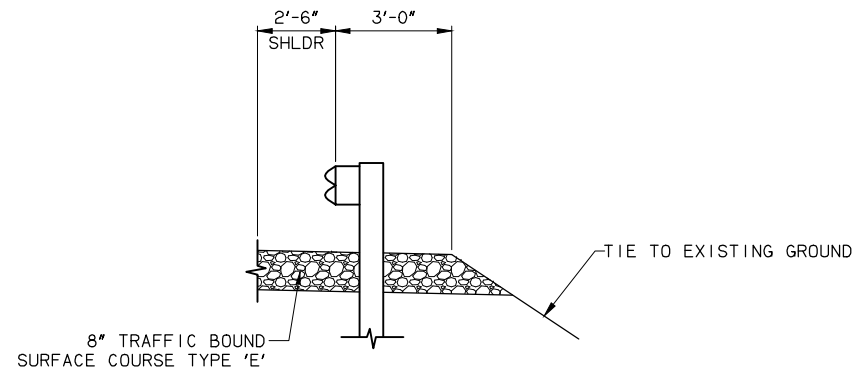
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PLAN VIEW GUARDRAIL INSTALLATION DETAIL

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NOTE:
LAP ELEMENTS IN A DIRECTION TO PREVENT SNAGGING FROM NEAREST TRAFFIC. FOR
ADDITIONAL DETAILS INCLUDING HARDWARE ELEMENTS, GUARDRAIL HEIGHT, AND POST
AND BLOCK DIMENSIONS REFER TO GRH1-1-0, GRH2-1-0 AND GET-3-0.



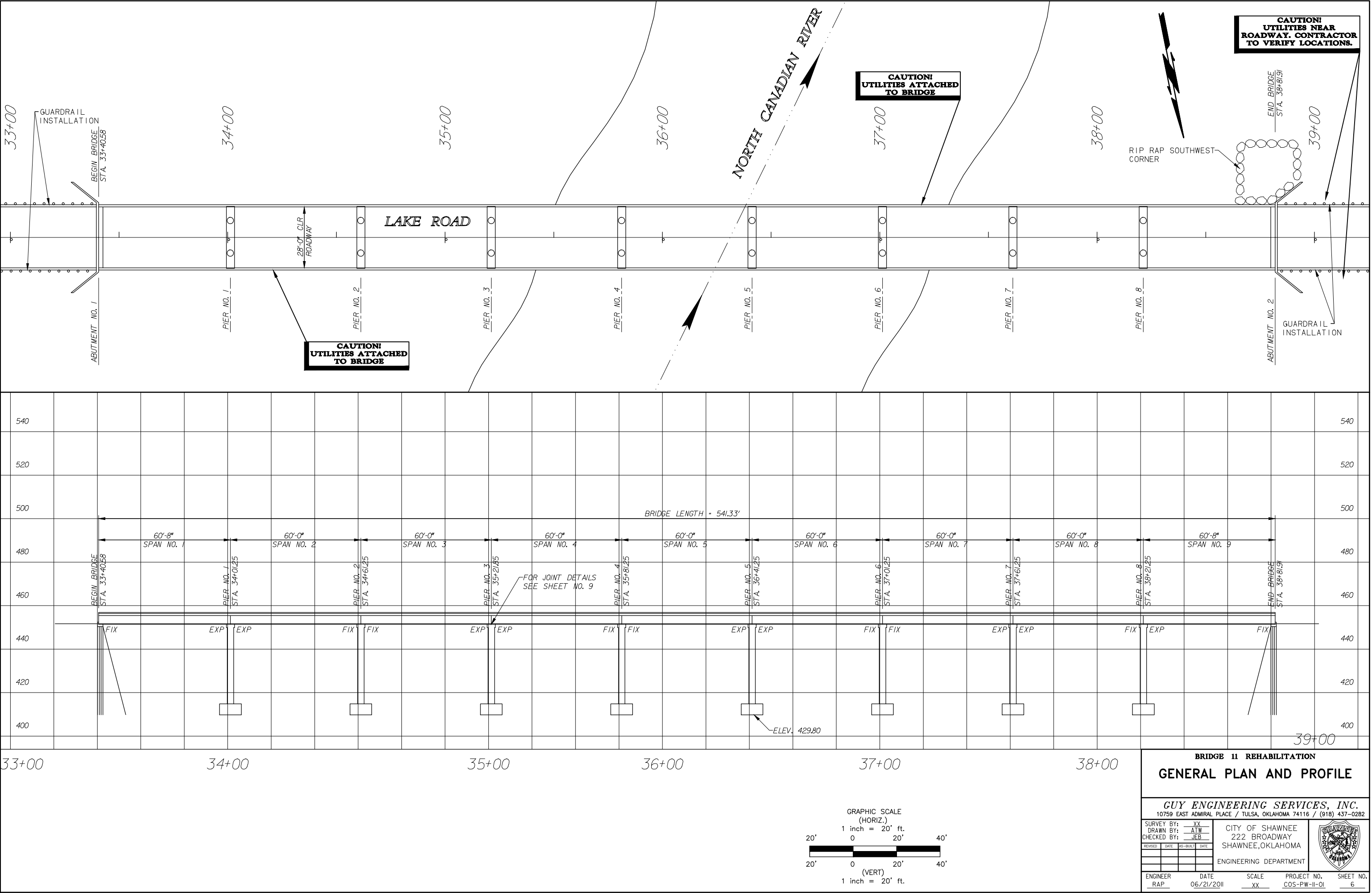
GUARDRAIL WIDENING

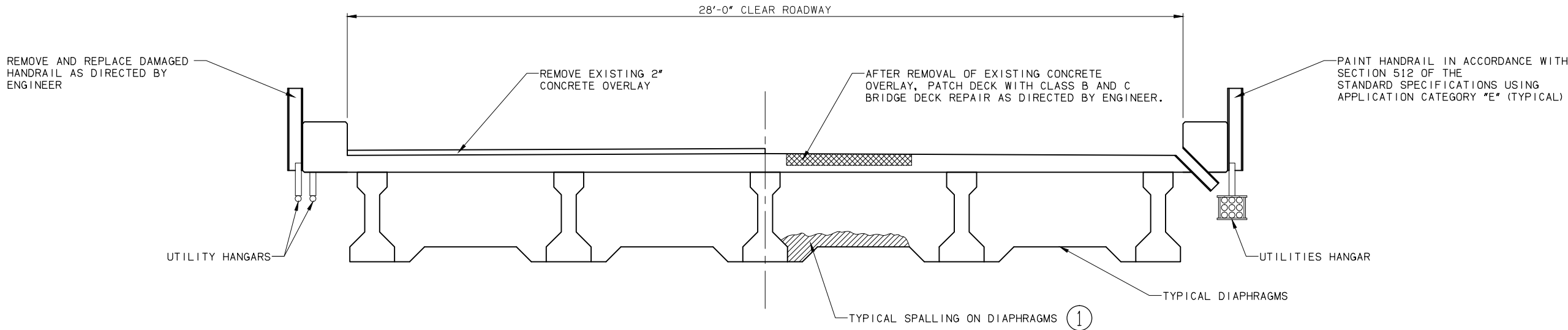
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BRIDGE 11 REHABILITATION									
DETAILS OF APPROACH ROADWAY									
GUY ENGINEERING SERVICES, INC. 10759 EAST ADMIRAL PLACE / TULSA, OKLAHOMA 74116 / (918) 437-0282									
SURVEY BY: XX DRAWN BY: ATW CHECKED BY: JEB				CITY OF SHAWNEE 222 BROADWAY SHAWNEE, OKLAHOMA					
ENGINEERING DEPARTMENT									
ENGINEER RAP	DATE 06/21/2011	SCALE XX	PROJECT NO. COS-PW-II-01	SHEET NO. 5					

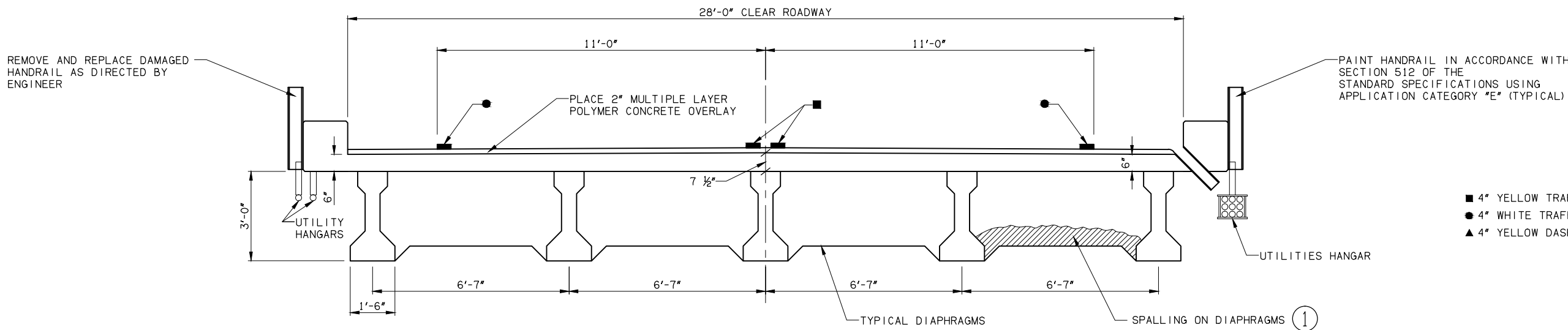
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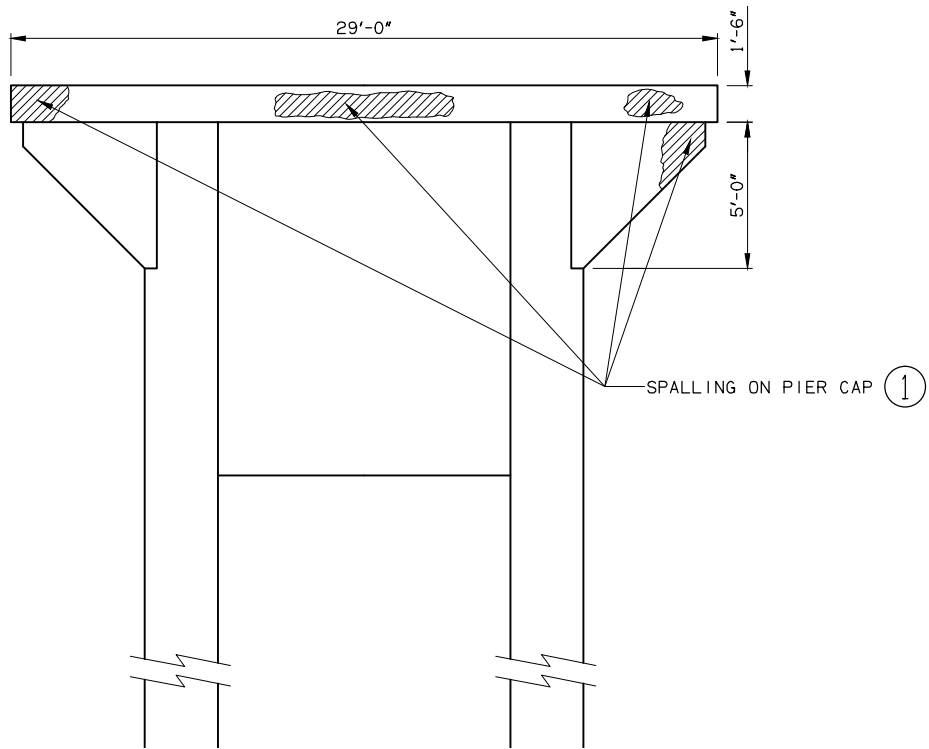


REMOVE OVERLAY & PATCH DECK
TYPICAL SECTION
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OVERLAY AND STRIPING
TYPICAL SECTION
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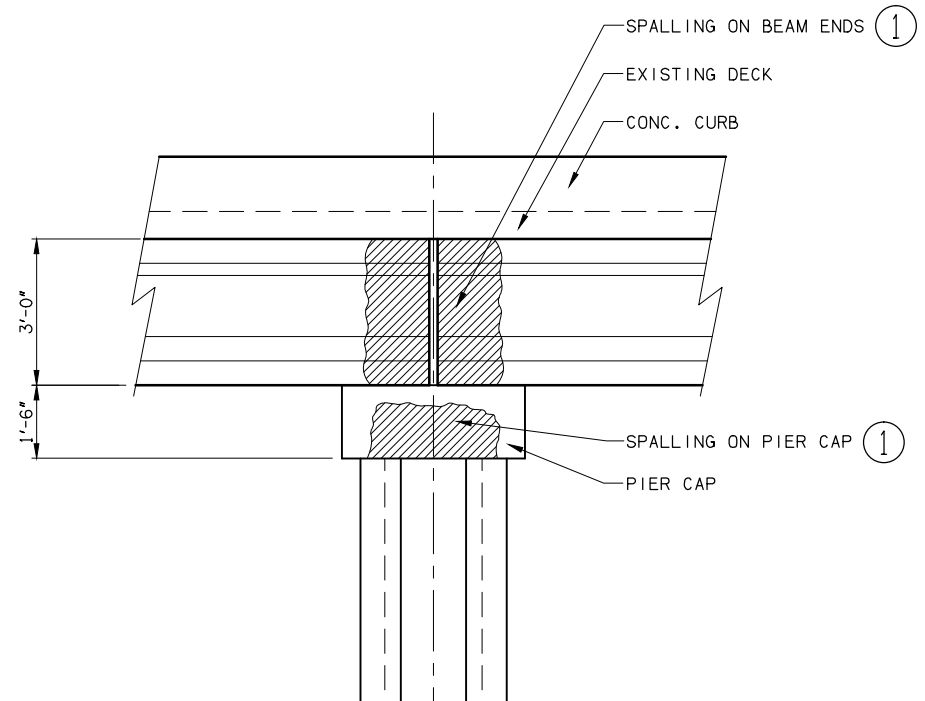
BRIDGE 11 REHABILITATION									
BRIDGE TYPICAL SECTION									
GUY ENGINEERING SERVICES, INC. 10759 EAST ADMIRAL PLACE / TULSA, OKLAHOMA 74116 / (918) 437-0282									
SURVEY BY: XX		CITY OF SHAWNEE							
DRAWN BY: ATW		222 BROADWAY							
CHECKED BY: JEB		SHAWNEE, OKLAHOMA							
REVISED	DATE	AS-BUILT	DATE	ENGINEERING DEPARTMENT					
ENGINEER	DATE	SCALE	PROJECT NO.	SHEET NO.					
RAP	06/21/2011	XX	COS-PW-II-01	7					



**TYPICAL DETAIL
OF PIER REPAIR**

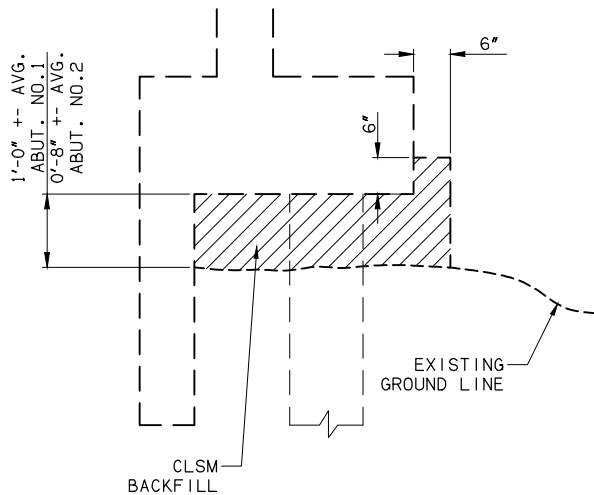
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① REMOVE LOOSE MATERIAL, CLEAN EXPOSED REBAR, AND REPAIR WITH PNEUMATICALLY PLACED MORTAR.



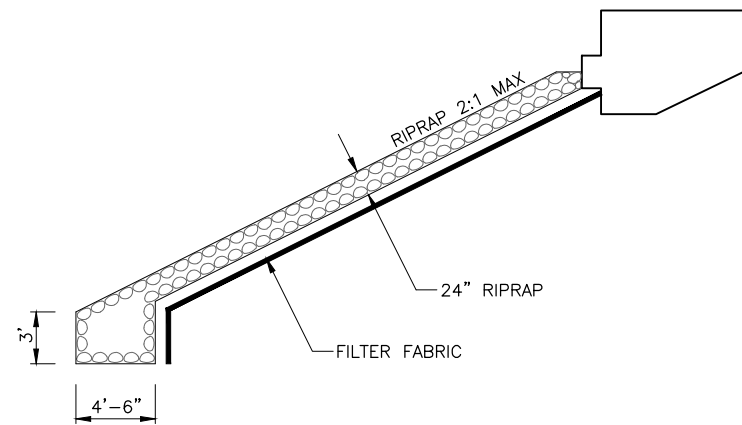
**TYPICAL DETAIL OF
BEAM REPAIR**

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**CLSM BACKFILL DETAIL
AT ABUTMENT**

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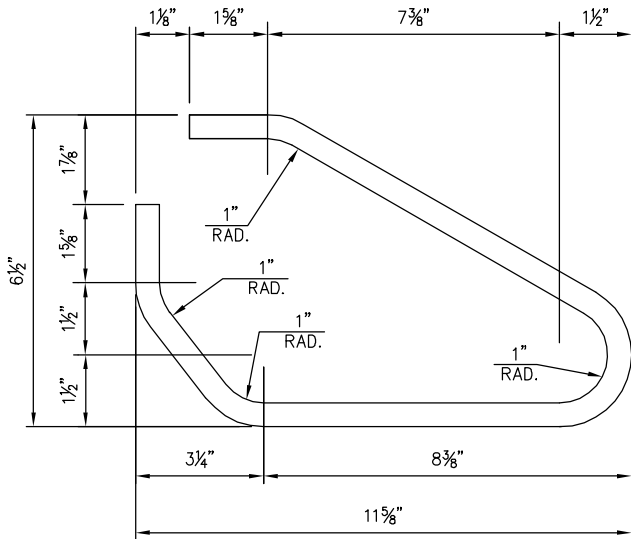
**DETAIL OF TYPE 1-A
PLAIN RIPRAP**

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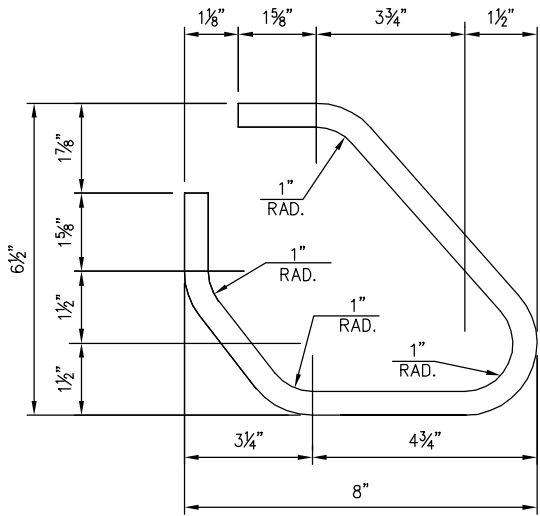
BRIDGE 11 REHABILITATION									
PIER, BEAM, AND ABUTMENT REPAIR DETAILS									
GUY ENGINEERING SERVICES, INC. 10759 EAST ADMIRAL PLACE / TULSA, OKLAHOMA 74116 / (918) 437-0282									
SURVEY BY: XX		CITY OF SHAWNEE		SHAWNEE, OKLAHOMA		ENGINEERING DEPARTMENT			
DRAWN BY: ATW		222 BROADWAY							
CHECKED BY: JEB		SHAWNEE, OKLAHOMA							
REVISED	DATE	AS-BUILT	DATE						
ENGINEER	DATE	SCALE	PROJECT NO.	SHEET NO.					
RAP	06/21/2011	XX	COS-PW-II-01	8					

EXPANSION JOINT REPLACEMENT NOTES

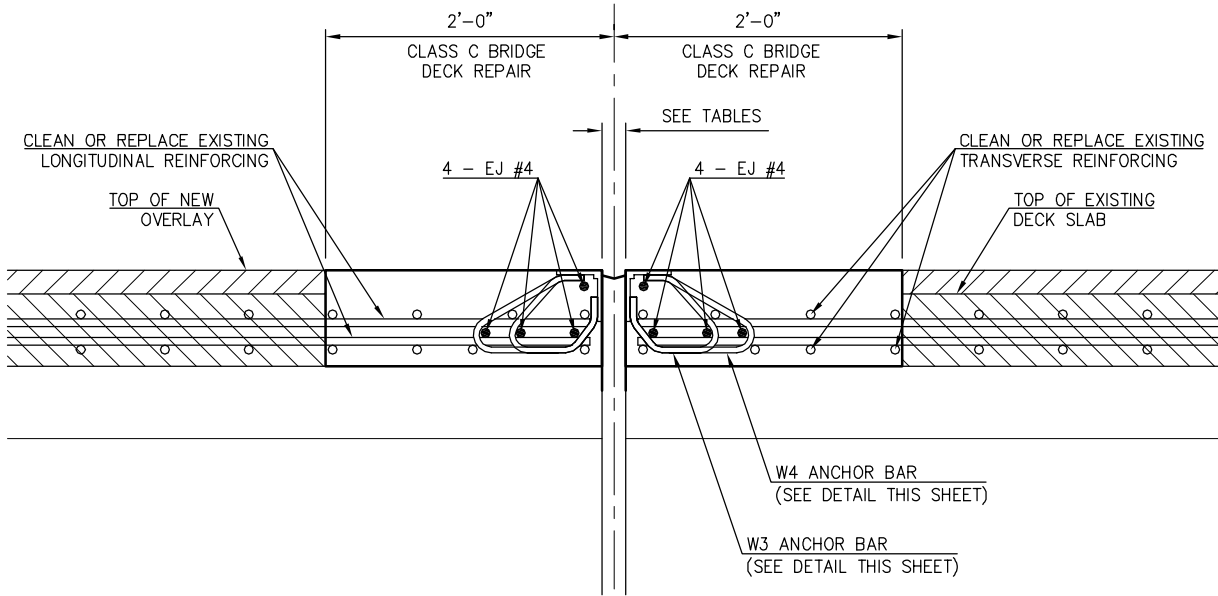
- 1. REPLACE EXISTING JOINTS AT PIERS 1,3,5,7 AND 8.
- 2. FOR ADDITIONAL DETAILS OF SQUARE SEALED EXPANSION JOINTS, SEE STD. EJ-SQ AND EJ-DTL.
- 3. USE W3 AND W4 ANCHOR BARS AS DETAILED ON THIS SHEET IN LIEU OF THE W1 AND W2 ANCHOR BARS SHOWN ON THE STANDARD. FABRICATE W3 AND W4 BARS FROM W20 DEFORMED STEEL WIRE.
- 4. FIELD CUT ENDS OF EXISTING DECK SLAB REINFORCING AS NECESSARY FOR INSTALLATION OF SEALED EXPANSION JOINT EXTRUSIONS WITH ANCHOR BARS. ALL COST OF FIELD CUTTING REINFORCING WILL BE INCLUDED IN OTHER ITEMS OF WORK.
- 5. DO NOT CUT REINFORCING EXTENDING FROM END DIAPHRAGMS INTO DECK SLAB.
- 6. REMOVE EXISTING EXPANSION JOINT HARDWARE AND MATERIAL, INCLUDING FILLER MATERIAL BETWEEN BEAMS TO CREATE A CLEAR OPENING.
- 7. REFER TO JOINT SETTING TABLES ON THIS SHEET FOR INITIAL JOINT OPENING.
- 8. DO NOT CUT THROUGH EXISTING CURB HORIZONTAL REINFORCING DURING CURB REMOVAL.
- 9. CLEAN OR REPLACE ALL EXPOSED REINFORCING BEFORE PLACING NEW CONCRETE.
- 10. INCLUDE ALL COSTS OF ANCHOR PLATE, WEDGE ANCHORS AND THEIR INSTALLATION IN THE CONTRACT UNIT PRICE OF "SEALED EXPANSION JOINT".
- 11. PAY ITEMS "SEALED EXPANSION JOINT" AND "CLASS C BRIDGE DECK REPAIR" USED TO PAY FOR ALL LABOR, MATERIAL, INCIDENTALS, AND EQUIPMENT ASSOCIATED WITH EXPANSION JOINT REPLACEMENT.



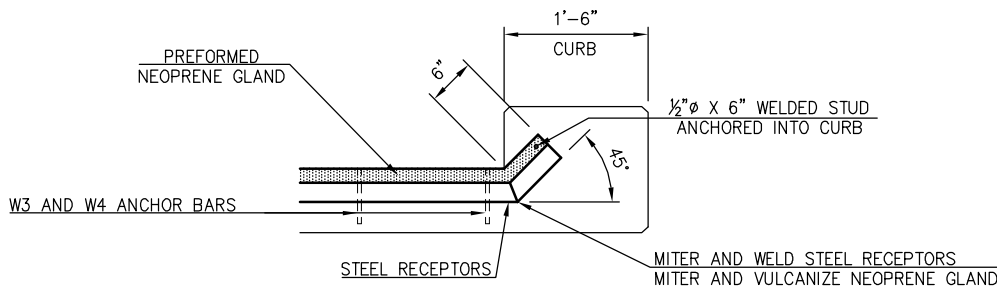
W4 ANCHOR BAR DETAIL



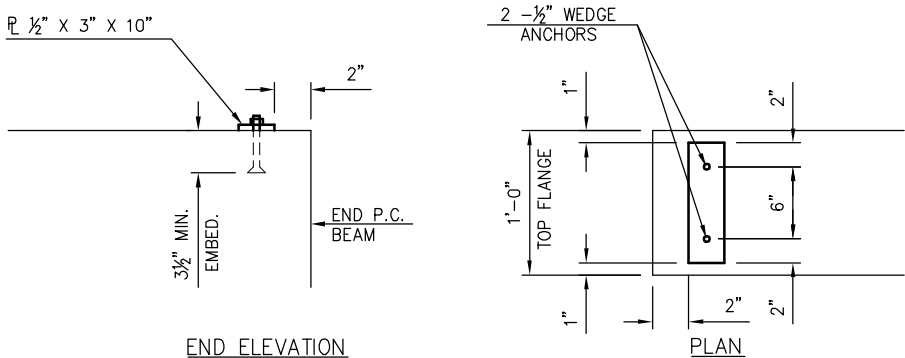
W3 ANCHOR BAR DETAIL



TYPICAL SECTION THROUGH EXPANSION JOINT



SEALED EXPANSION JOINT AT CURB



EXPANSION JOINT ANCHOR PLATE DETAILS

EXPANSION JOINT SETTING PIER NOS. 1,3,5,7	
EXP. JOINT OPENING	TEMPERATURE °F
1 3/8"	115°
1 1/2"	101°
1 5/8"	86°
1 3/4"	72°
1 7/8"	57°
2"	43°
2 1/8"	29°
2 1/4"	14°
2 3/8"	0°

EXPANSION JOINT SETTING PIER NO. 8	
EXP. JOINT OPENING	TEMPERATURE °F
1 5/8"	120°
1 3/4"	101°
1 7/8"	72°
2"	43°
2 1/8"	14°
2 1/4"	0°

EXPANSION JOINT
REPLACEMENT DETAILS

NICHOLLS CONSULTING, PLLC.

P.O. BOX 2291 / OWASSO, OKLAHOMA 74055 / (918) 516-2334

SURVEY BY:
DRAWN BY:
CHECKED BY:

-
SUN
SUN

REVISION
DATE
AS-BUILT
DATE

CITY OF SHAWNEE
222 BROADWAY
SHAWNEE, OKLAHOMA

ENGINEERING DEPARTMENT

ENGINEER
SUN

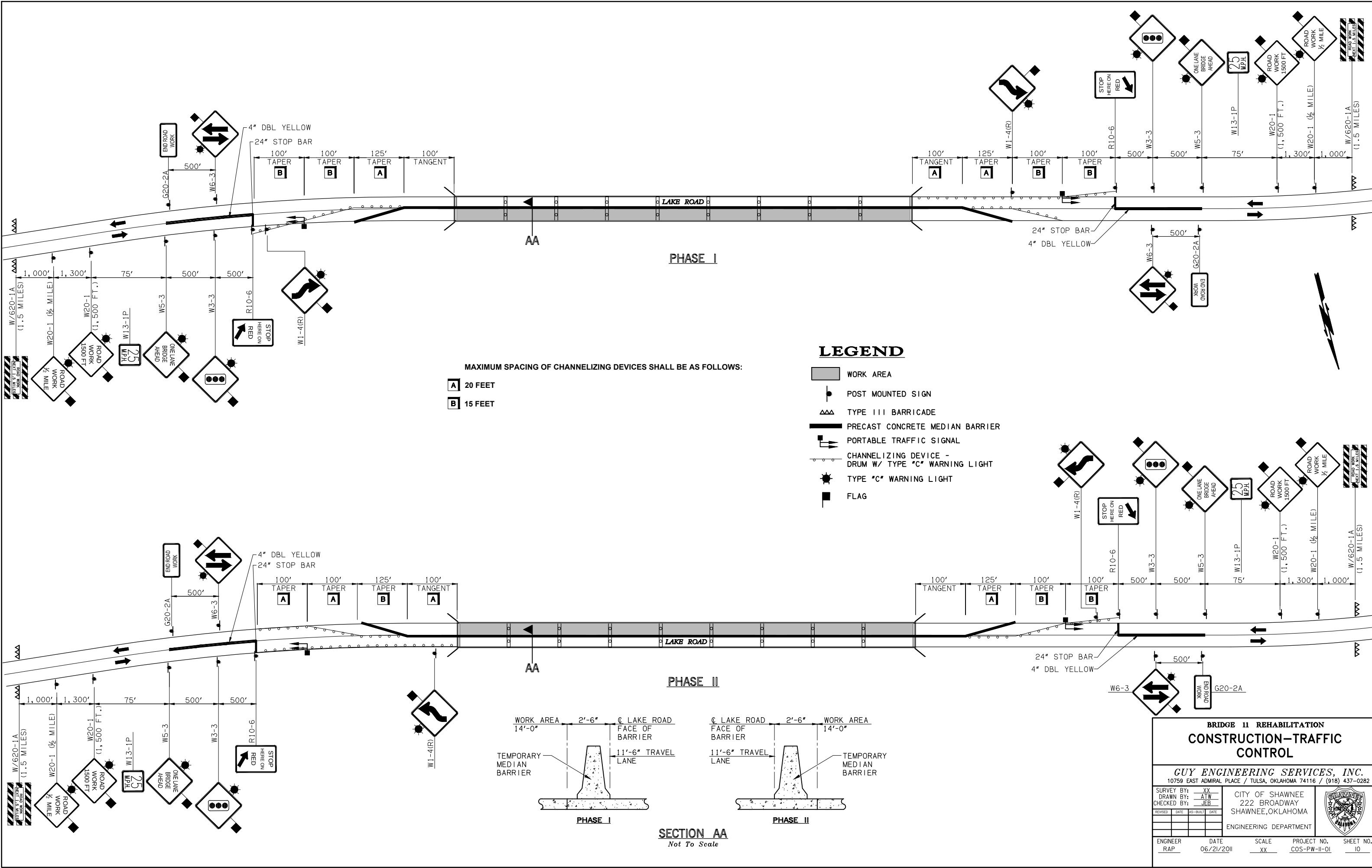
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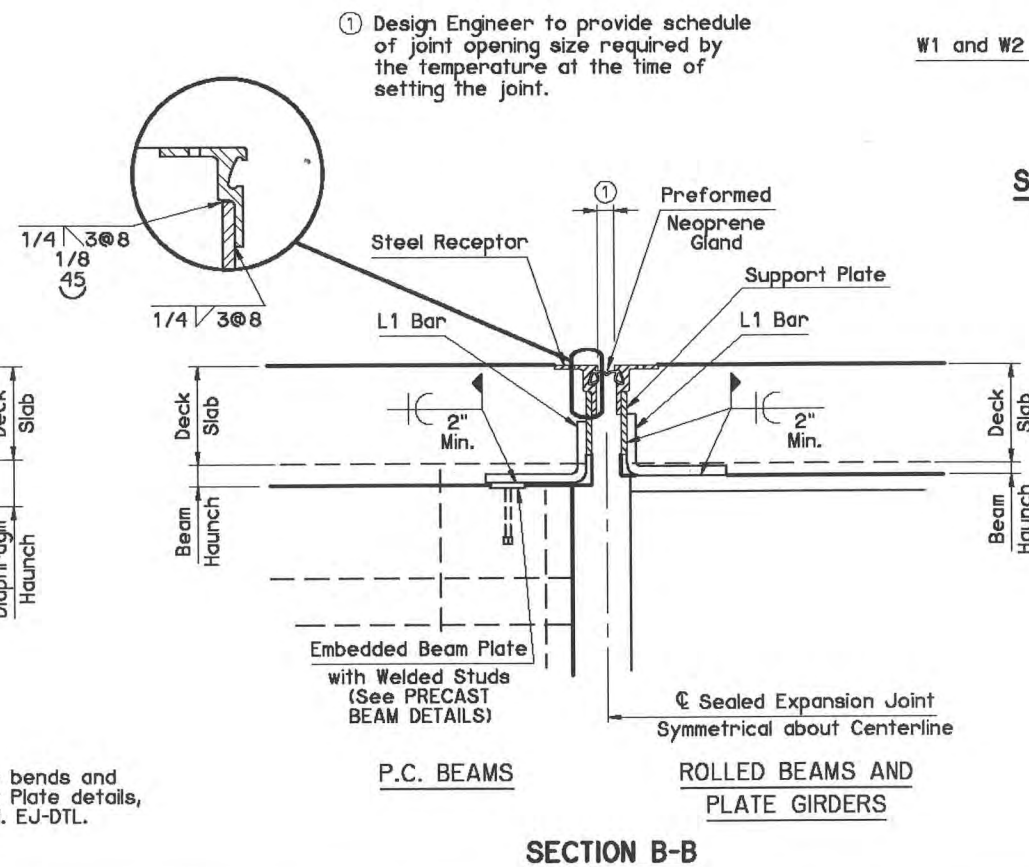
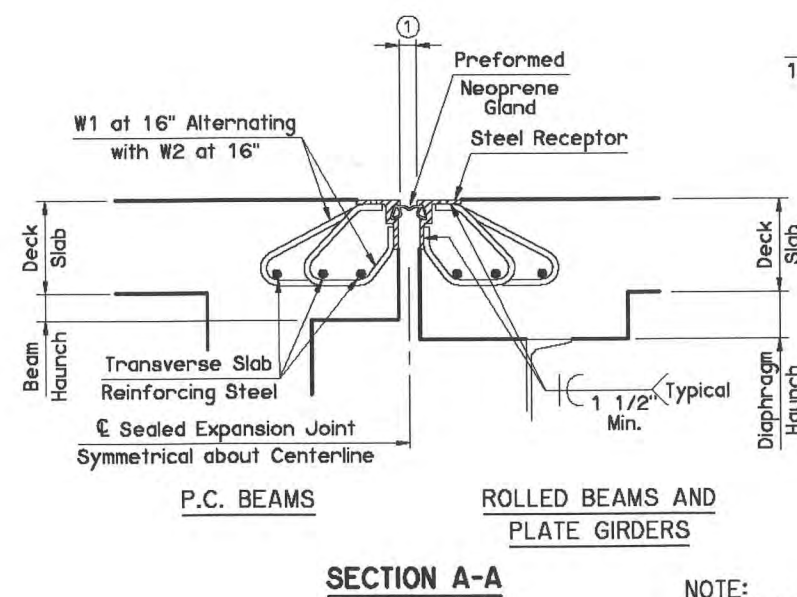
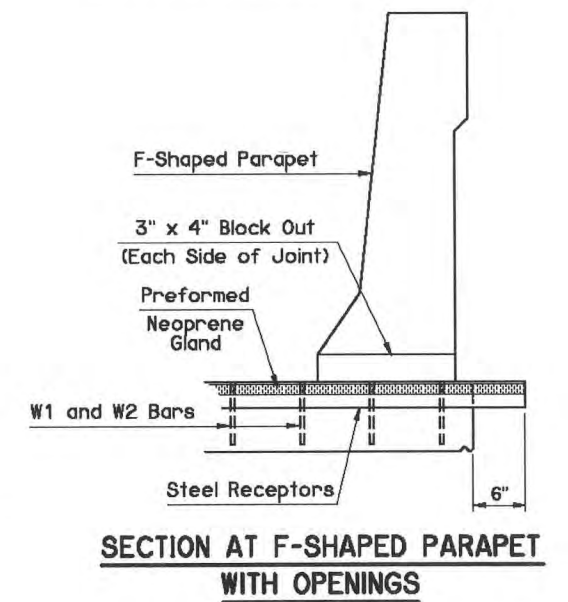
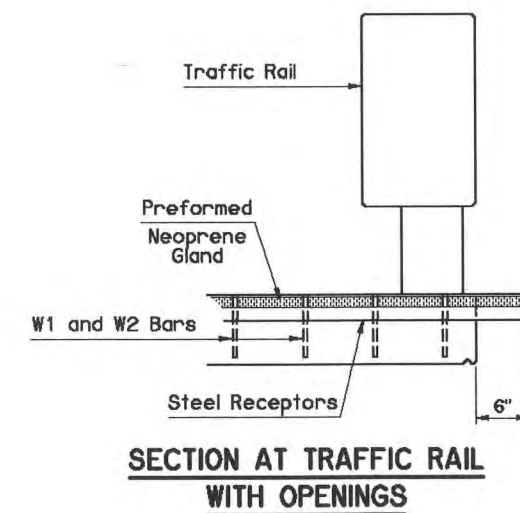
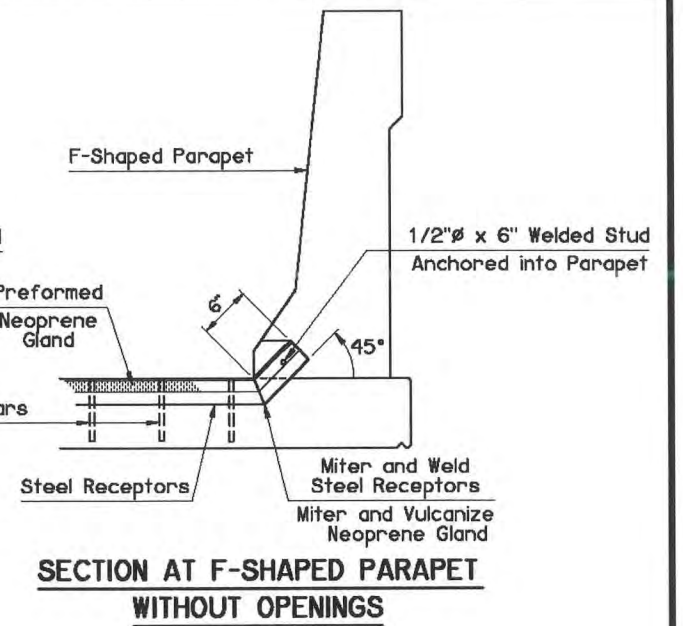
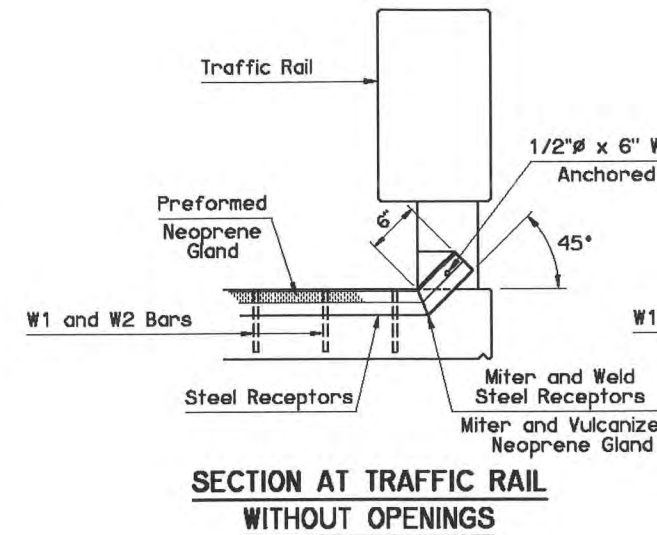
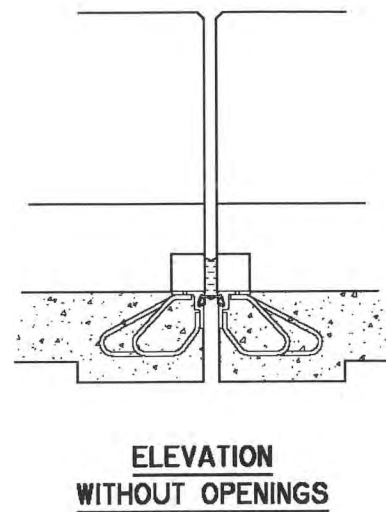
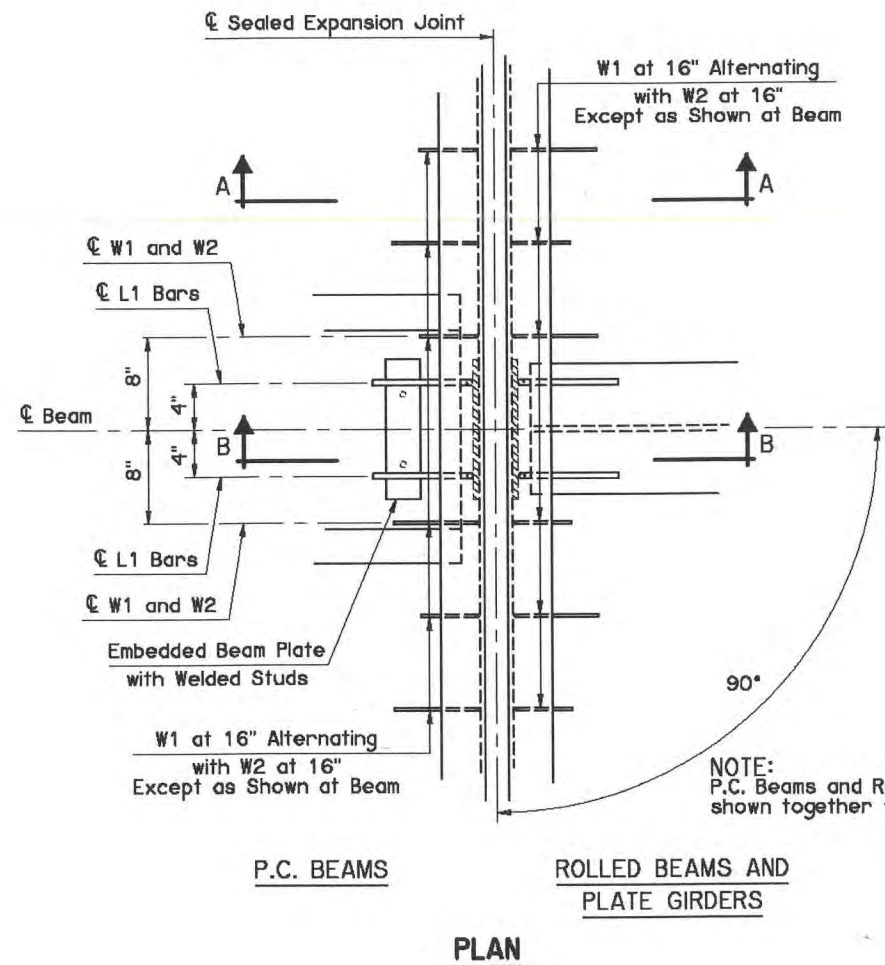
SCALE
N.T.S.

PROJECT NO.
COS-PW-11-01

SHEET NO.
9

S:\Guy\NC09002 Misc Projects\Shawnee Br 11 Repair\Shawnee 11 Details.dwg, SEJ DETAILS, 5/27/2011 9:49:28 AM





BEAM TYPE	TEMPERATURE CHANGE PER EVERY 1/8" CHANGE IN BRIDGE LENGTH ^②				
	TOTAL EXPANSION LENGTH				
	100'	200'	300'	400'	500'
CONCRETE	17.3°F	8.7°F	5.8°F	4.3°F	3.5°F
STEEL	16.0°F	8.0°F	5.3°F	4.0°F	3.2°F

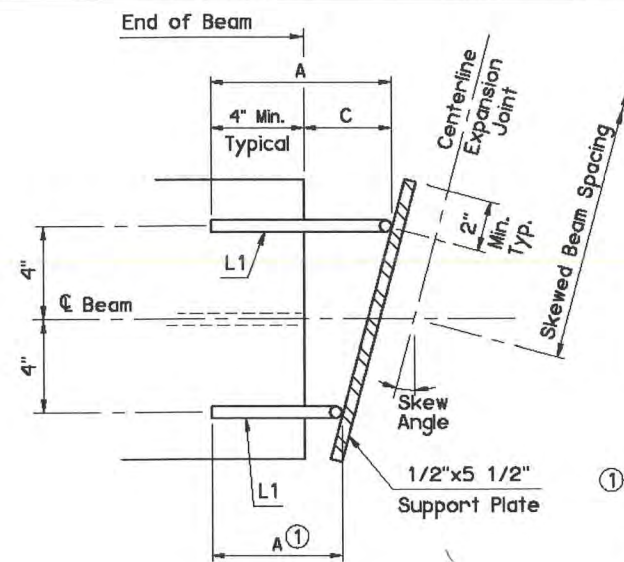
② Table is for assisting in determining joint opening size. A nominal 2" joint opening corresponds to 43°F for concrete beams and 60°F for steel beams. Decrease opening as temperature rises and increase as temperature drops.

APPROVED BY BRIDGE ENGINEER *Scotty Smith* DATE *4/2/10*

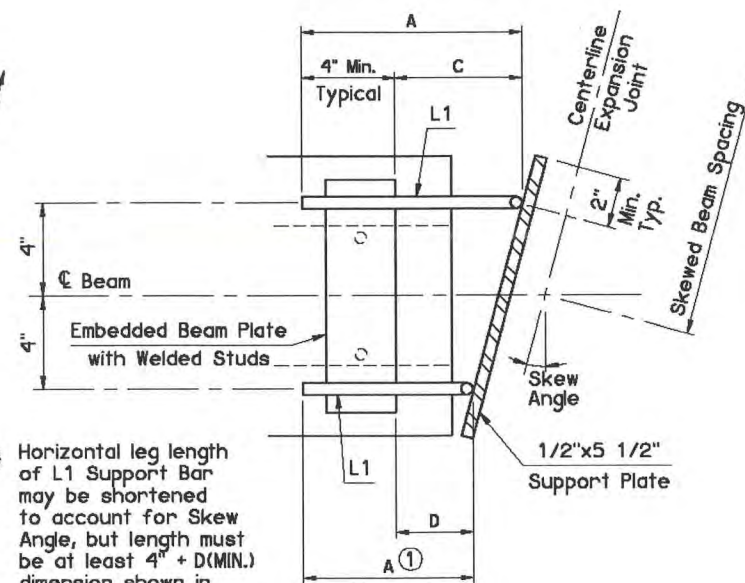
OKLAHOMA DEPT. OF TRANSPORTATION
BRIDGE STANDARD (ENGLISH)

**SQUARE SEALED EXPANSION JOINT
CONVENTIONAL**

2009 SPECIFICATIONS EJ-SQ 03E
B-08E



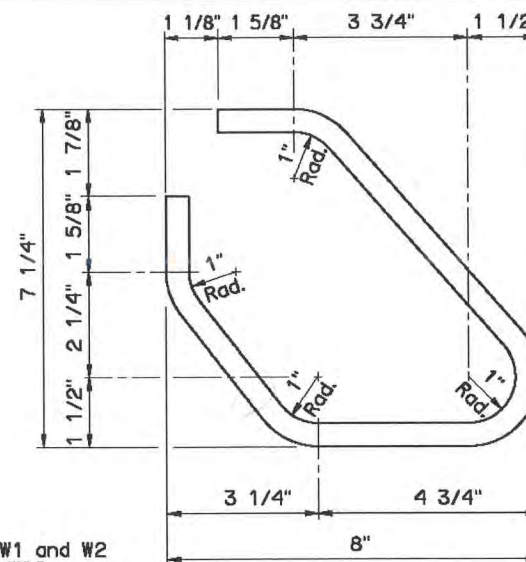
ROLLED BEAMS AND PLATE GIRDERS



P.C. BEAMS

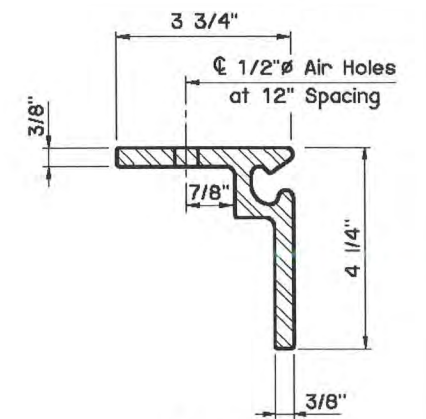
① Horizontal leg length of L1 Support Bar may be shortened to account for Skew Angle, but length must be at least 4" + D(MIN.) dimension shown in L1 SUPPORT BAR PIN DIAMETER SCHEDULE.

SUPPORT PLATE SCHEDULE	
SKEW ANGLE	PLATE LENGTH
0°	1'-0"
1° thru 25°	1'-1"
25° thru 35°	1'-2"
35° thru 45°	1'-4"
45° thru 55°	1'-6"
55° thru 60°	1'-8"
60° thru 65°	2'-0"
65° thru 70°	2'-4"

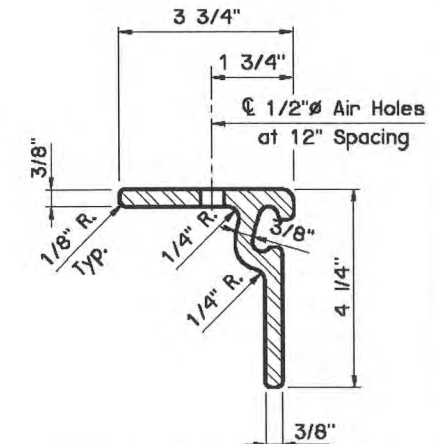


W1 ANCHOR BAR DETAIL

NOTE: Fabricate W1 and W2 bars from W20 Deformed Steel Wire.



D.S. BROWN
TYPE SSOK STEEL EXTRUSION
RECEPTOR DETAIL



WATSON BOWMAN AND ACME
TYPE Q STEEL EXTRUSION
RECEPTOR DETAIL

SEALED EXPANSION JOINT SUPPORT PLANS

GUIDE FOR SIZING SEALED EXPANSION JOINT SUPPORT MEMBERS

- After determining Skewed Beam Spacing and C, find Support Bar diameter from L1 SUPPORT BAR DIAMETER SCHEDULE.
- Knowing Support Bar diameter, find Pin Diameter from L1 SUPPORT BAR PIN DIAMETER SCHEDULE. Adjust the location of the Embedded Beam Plate for P.C. Beams if actual D dimension is less than D(MIN.) scheduled. No check of D(MIN.) from the end of Rolled Beams and Plate Girders is required.
- Dimension A of Support Bars is 4" minimum plus C or D. Horizontal leg length of L1 Support Bar may be shortened to account for Skew Angle, but length must be at least 4" + D(MIN.) dimension shown in L1 SUPPORT BAR PIN DIAMETER SCHEDULE.
- Dimension B of Support Bar is dependent upon Haunch Thickness as shown in L1 SUPPORT BAR DIMENSION B SCHEDULE.
- Length of Support Plate is dependent upon Skew Angle as shown in SUPPORT PLATE SCHEDULE.

SEALED EXPANSION JOINT NOTES

Use a Sealed Expansion Joint which has a total movement range of 4" and seals the deck to prevent moisture or other contaminants from descending onto the lower structure components.

Provide either the Watson, Bowman and Acme Type Q Steel Extrusion Receptor or the D.S. Brown Type SSOK Steel Extrusion Receptor as shown on this sheet.

MATERIALS

Provide Steel Receptors, Support Plates, L1 Support Bars conforming to AASHTO M270 (ASTM A709), Grade 36, 50 or 50W (Charpy V-Notch testing not required).

Provide W1 and W2 Anchor Bars conforming to AASHTO M225 (ASTM A496). Include all bar dimensions in the shop drawings.

Use Preformed Neoprene Gland lubricant and adhesive in accordance with the manufacturer's published literature.

FABRICATION OF JOINT

Perform welding of Steel Receptors, Support Plates, L1 Support Bars and W1 and W2 Anchor Bars in accordance with Subsection 724.03 of the Specifications.

Apply two shop coats - one an inorganic zinc rich (IZ) primer, the other an inorganic zinc rich (IZ) intermediate coat - to the entire surface of the Steel Receptor, Support Plates, L1 Support Bars and W1 and W2 Anchor Bars. Apply one field application of urethane topcoat to all exposed surfaces after installation. Perform all painting in accordance with Section 730 of the Specifications.

At locations where joint is shown to be mitered at any angle for turn-up at traffic rail or for skew, shop splice Neoprene Gland with heat vulcanizing or other method of equal effectiveness as recommended by the listed joint manufacturer or approved equal and approved by the Engineer.

BASIS OF PAYMENT

The Department will consider the cost of the complete joint including Neoprene Gland, Support Plates, Steel Receptors, L1 Support Bars, W1 and W2 Anchor Bars, welding, equipment, labor and any other incidentals to be included in the contract unit price of SEALED EXPANSION JOINT.

L1 SUPPORT BAR DIAMETER SCHEDULE		
SKEWED BEAM SPACING	C (MAX.)	SUPPORT BAR DIAMETER
8'-0" or Less	3"	3/4"
	6"	1"
	1'-3"	1 1/4"
	1'-9"	1 1/2"
	2'-0"	1 3/4"
Over 8'-0" to 11'-0"	3"	3/4"
	6"	1"
	1'-0"	1 1/4"
	1'-6"	1 1/2"
	2'-0"	1 3/4"
Over 11'-0" to 14'-0"	6"	1"
	1'-0"	1 1/4"
	1'-6"	1 1/2"
	1'-9"	1 3/4"
	2'-0"	2"
Over 14'-0" to 20'-0"	3"	1"
	9"	1 1/4"
	1'-3"	1 1/2"
	1'-9"	1 3/4"
	2'-0"	2"
Over 20'-0" to 25'-0"	3"	1"
	6"	1 1/4"
	1'-0"	1 1/2"
	1'-6"	1 3/4"
	2'-0"	2"

L1 SUPPORT BAR PIN DIAMETER SCHEDULE		
SUPPORT BAR DIAMETER	PIN DIA. ②	D (MIN.) ③
3/4"	2 1/4"	2 3/8"
1"	3"	3"
1 1/4"	3 3/4"	3 5/8"
1 1/2"	4 1/2"	4 1/4"
1 3/4"	5 1/4"	4 7/8"
2"	6"	5 1/2"

L1 SUPPORT BAR DIMENSION B SCHEDULE	
HAUNCH ④ THICKNESS	B ⑤
1"	6 3/4" ⑥
2"	7 1/2" ⑦
3"	8 1/2"
4"	8 1/2"

② Pin Diameter shown is based on ASTM A6, Appendix X4 for Grade 36 steel.

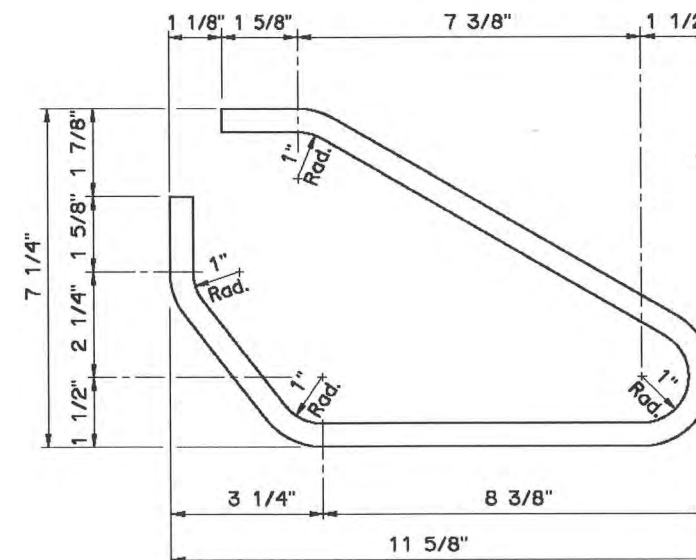
③ D dimension required to maintain minimum weld of Support Bar to Embedded Beam Plate for P.C. Beams.

④ Haunch Thickness measured from top of Beam to bottom of Deck Slab.

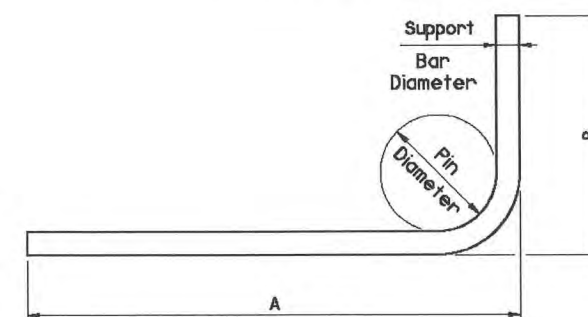
⑤ Dimension B assumes an 8" Deck Slab. If a different Deck Slab thickness is used, adjust Dimension B accordingly.

⑥ 1 3/4" and 2" L1 Support Bars cannot be used with 1" Haunch unless L1 Support Bars are hotbent around 3 1/2" Pin maximum.

⑦ 2" L1 Support Bars cannot be used with 2" Haunch unless L1 Support Bars are hotbent around 5 1/2" Pin maximum.



W2 ANCHOR BAR DETAIL



L1 SUPPORT BAR DETAIL

APPROVED BY BRIDGE ENGINEER

David J. Smith

DATE 4/2/20

OKLAHOMA DEPT. OF TRANSPORTATION
BRIDGE STANDARD (ENGLISH)

SEALED EXPANSION JOINT DETAILS

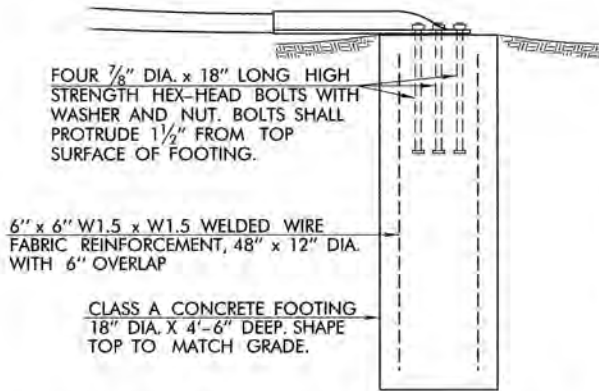
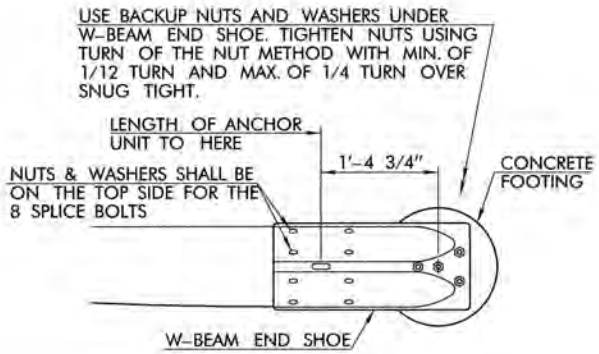
2009 SPECIFICATIONS

EJ-DTL

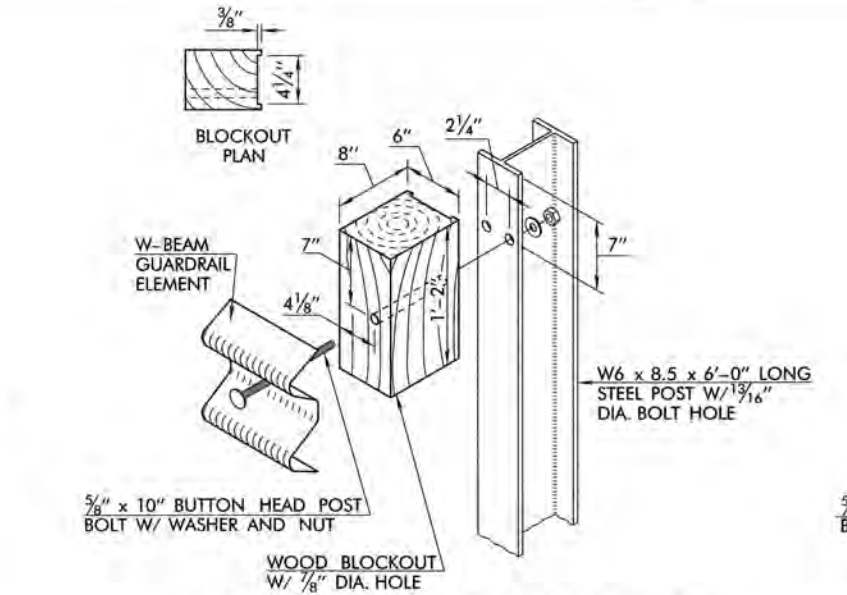
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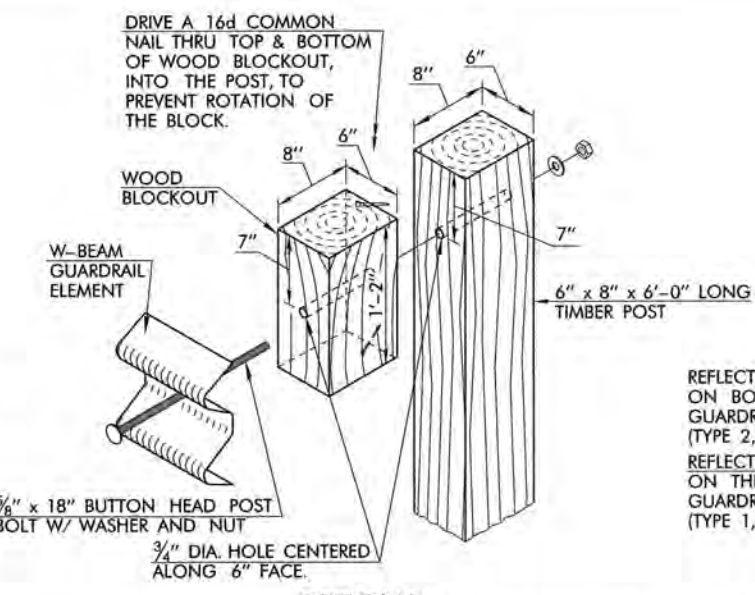
REVISIONS	
DESCRIPTION	DATE



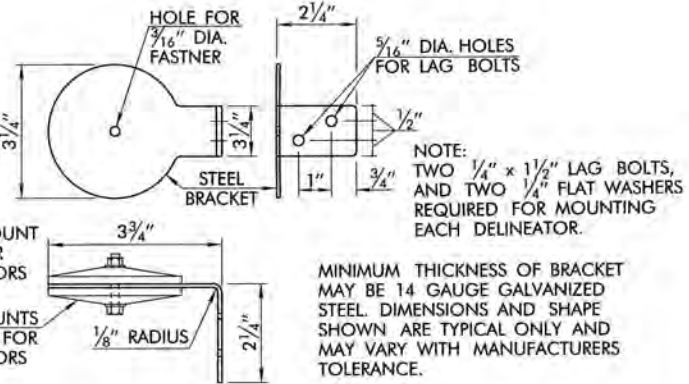
GROUND ANCHOR FOOTING DETAIL



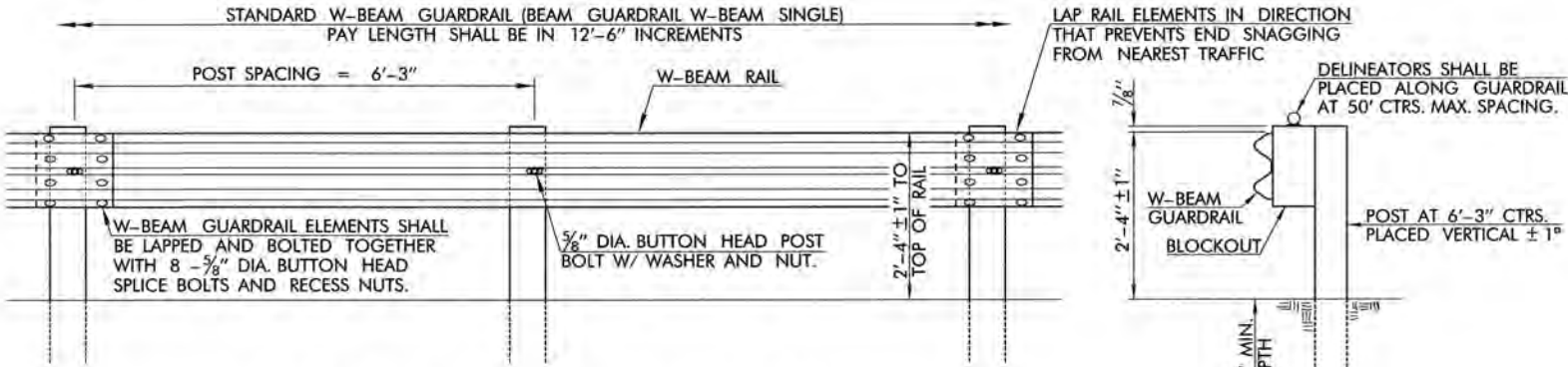
STEEL POST AND WOOD BLOCKOUT



OPTIONAL WOOD POST AND WOOD BLOCKOUT

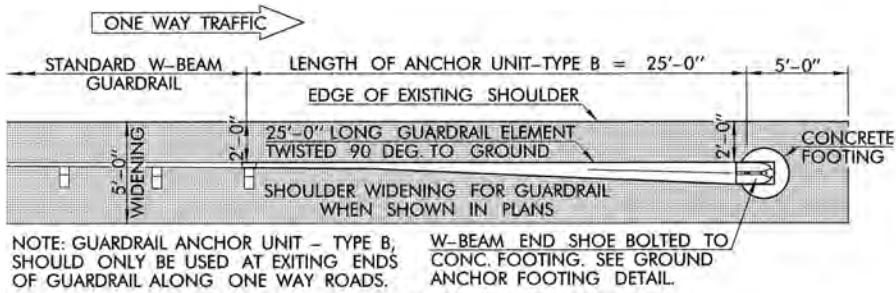


TYPICAL BRACKET FOR MOUNTING 3 1/4" ROUND DELINEATOR TO GUARD RAIL BLOCKOUT

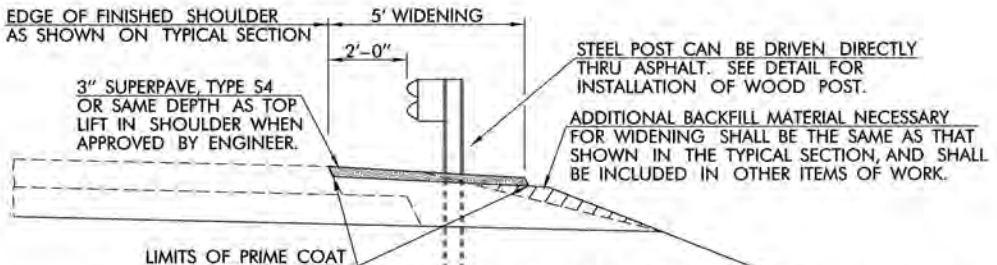


STANDARD W-BEAM GUARDRAIL ELEVATION

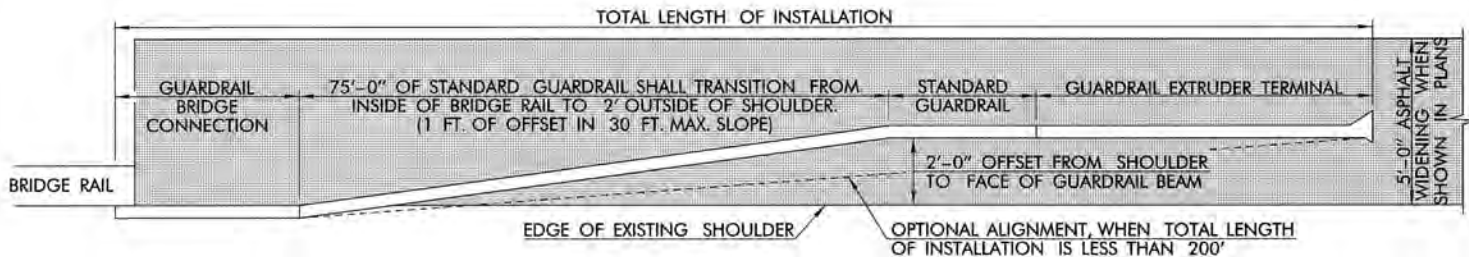
STANDARD W-BEAM GUARDRAIL SECTION



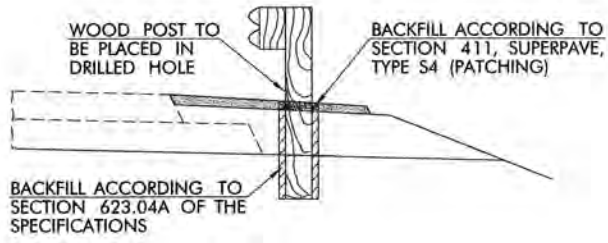
GUARDRAIL ANCHOR UNIT TYPE B



DETAIL OF SHOULDER WIDENING FOR STANDARD GUARDRAIL



TYPICAL GUARDRAIL INSTALLATION AT BRIDGE



INSTALLATION OF WOOD POST IN ASPHALT WIDENING

OPTIONAL TYPE POSTS OR BLOCKOUTS FOR STANDARD GUARDRAIL

THE CONTRACTOR MAY, AT HIS OPTION, SELECT AND USE ONE OF THE TYPE POSTS AND BLOCKOUTS SHOWN ABOVE, OR AN APPROVED ALTERNATE. THIS POST & BLOCKOUT CHOICE MUST BE USED ON THE ENTIRE PROJECT. ALTERNATE POST (INCLUDING SPECIAL SHAPES) MAY BE USED UPON THE APPROVAL OF THE ENGINEER. ALTERNATE BLOCKOUTS (SUCH AS RECYCLED MATERIAL, RUBBER, PLASTIC AND COMPOSITE PRODUCTS) MAY BE USED IF PRODUCT HAS BEEN EVALUATED AND APPROVED BY ODOT.

GENERAL NOTES

- ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 2009 ODOT STANDARD SPECIFICATIONS.
- STANDARD GUARDRAIL WITH 6'-3" POST SPACING MEETS NHCPR-350, TEST LEVEL 3. IF A RIGID HAZARD IS TO BE LEFT BEHIND THE GUARDRAIL, WITHIN 3'-0" OF THE RAIL, CONSIDER USING A DIFFERENT TREATMENT.
- WOOD POSTS AND BLOCKOUTS SHALL BE STRESS GRADE 1200F.
- ALL STANDARD GUARDRAIL AND GUARDRAIL EXTRUDER TERMINALS SHALL BE OFFSET SO THAT RAIL FACE IS TWO FEET OUTSIDE THE SHOULDER. FOR TRANSITION FROM BRIDGE RAIL TO TWO FOOT OFFSET, BEGINNING AT THE GUARDRAIL BRIDGE CONNECTION, TRANSITION THE STANDARD GUARDRAIL, AT A 30:1 TAPER, UNTIL THE RAIL REACHES THE OFFSET DISTANCE.
- ALL GUARDRAIL, METAL POSTS, PLATES AND HARDWARE SHALL BE GALVANIZED AFTER FABRICATION.
- ANY FIELD CUTS OR HOLES DRILLED IN GALVANIZED MATERIALS SHALL BE COATED WITH A ZINC OXIDE PAINT. SEE SECTION 730 OF THE SPECIFICATIONS.
- GUARDRAIL DELINEATORS (TYPE 2, CODE 1) WILL BE REQUIRED FOR ALL TWO-LANE ROADWAYS. ALL OTHER ROADWAYS WILL REQUIRE GUARDRAIL DELINEATORS (TYPE 1, CODE 1).

BASIS OF PAYMENT		
ITEM NO.	ITEM	UNIT
623 (A)	BEAM GUARDRAIL W-BEAM SINGLE	L.F.
623 (F)	GUARDRAIL ANCHOR UNIT TYPE B	EA.
853	GUARDRAIL DELINEATORS (TYPE 1, CODE 1)	EA.
853	GUARDRAIL DELINEATORS (TYPE 2, CODE 1)	EA.

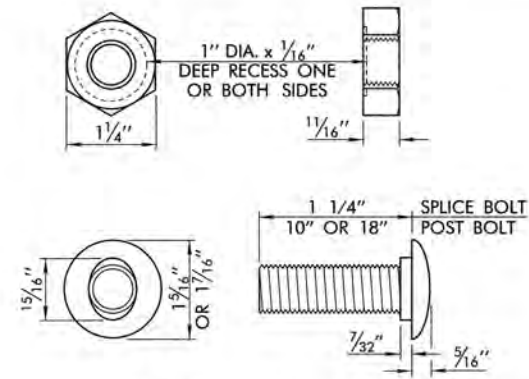
NOTE: PAYITEM GUARDRAIL ANCHOR UNIT TYPE B INCLUDES ALL LABOR AND MATERIALS TO INSTALL 25'-0" TWISTED RAIL ELEMENT, W-BEAM END SHOE, CONC. FOOTING, AND FOUR ANCHOR BOLTS.



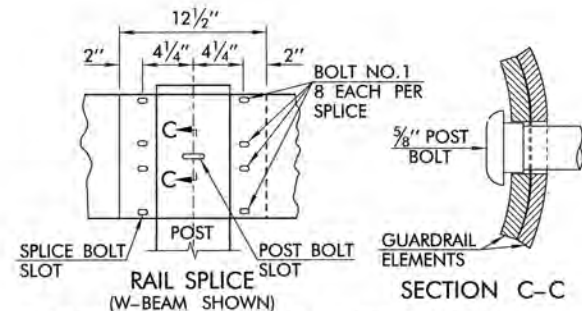
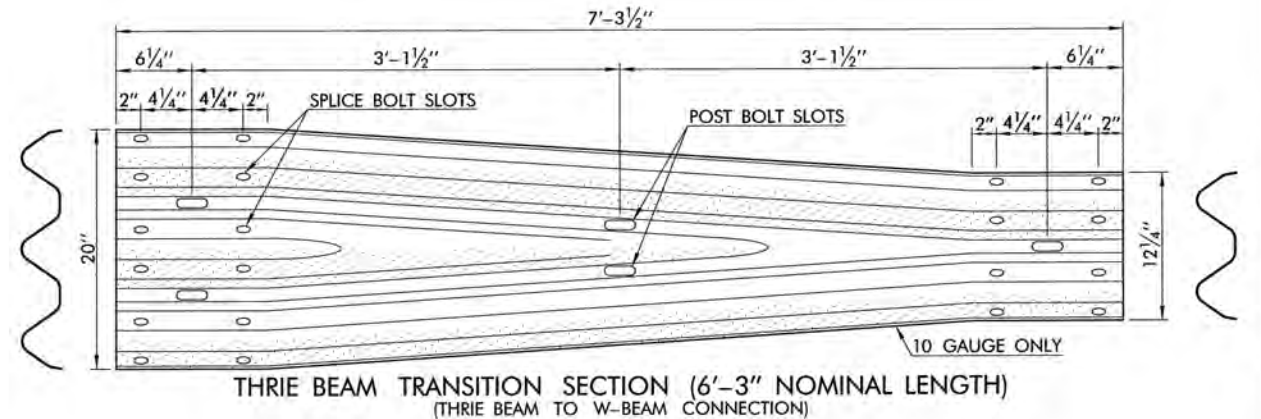
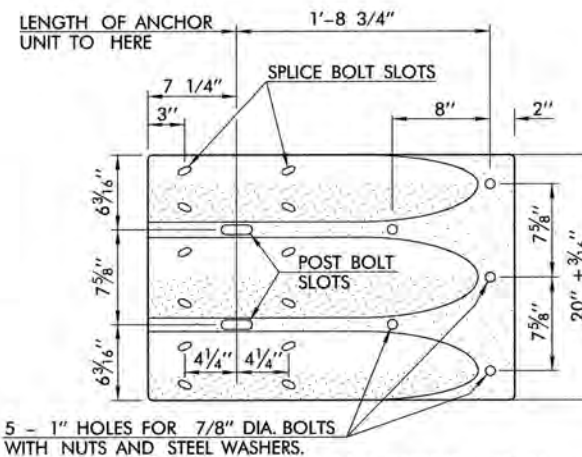
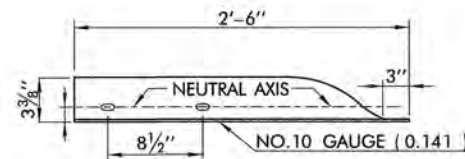
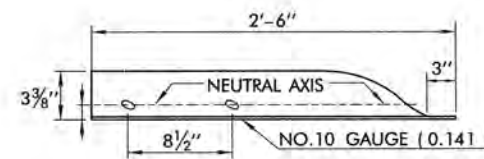
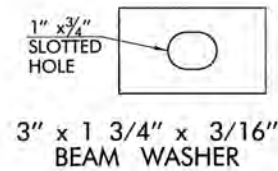
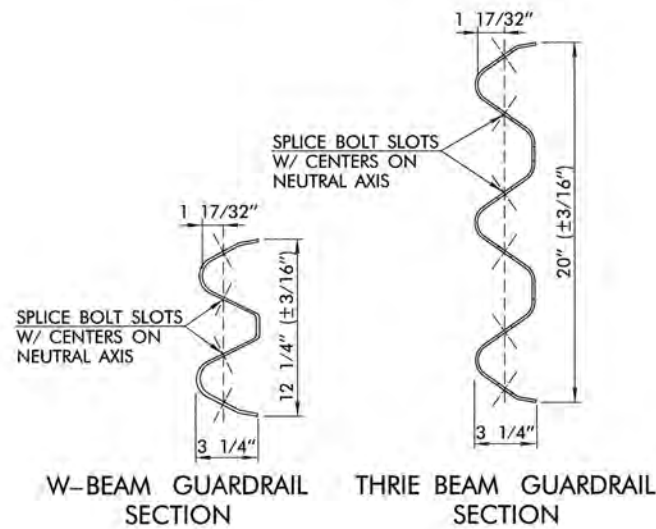
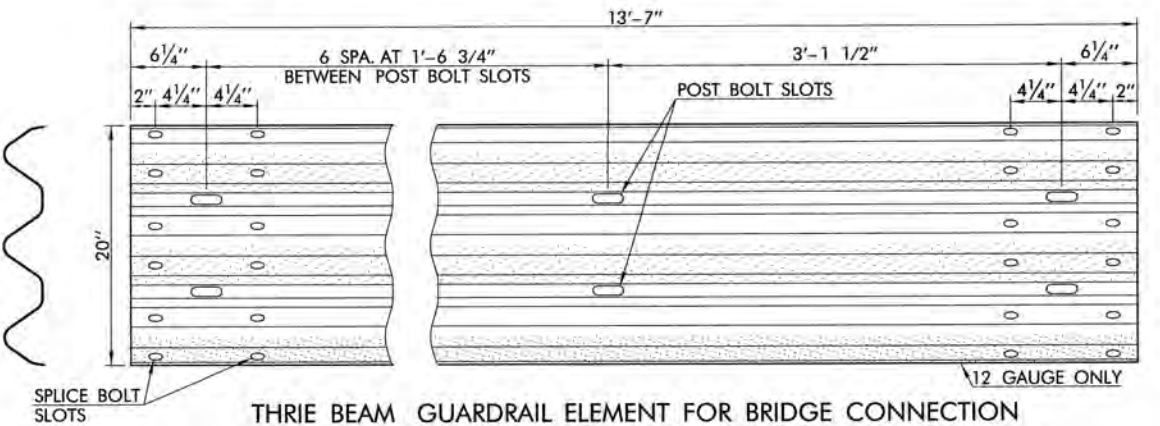
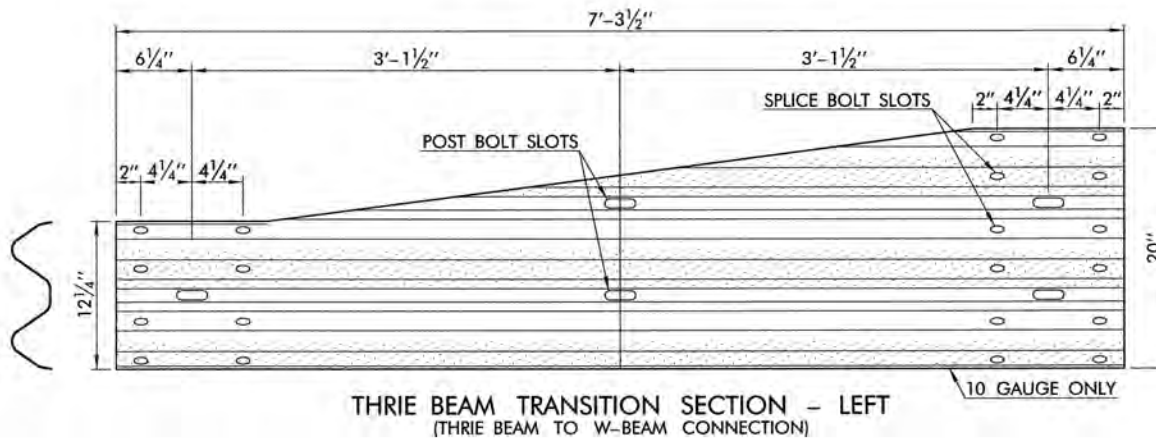
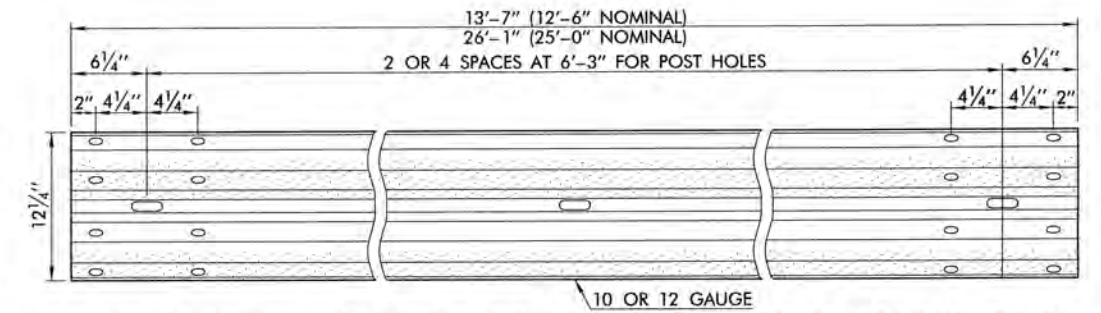
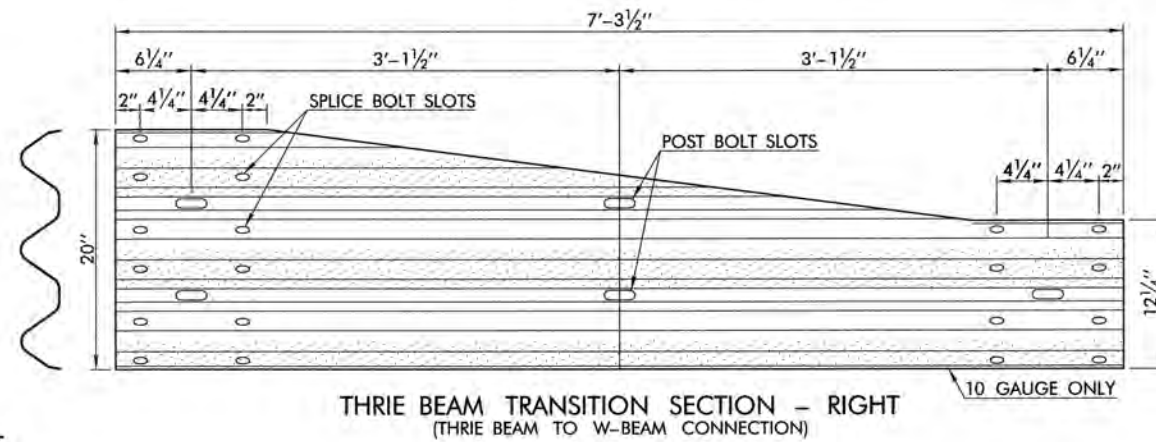
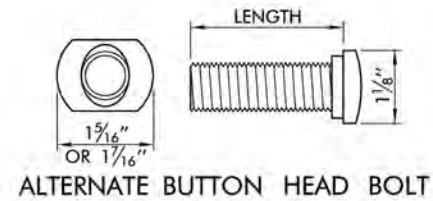
APPROVED BY
ROADWAY ENGINEER: *Timothy A. Pegler* DATE: 12/31/09
ROADWAY STANDARD

GUARDRAIL AND HARDWARE
(1 OF 2)

DESCRIPTION	REVISIONS	DATE

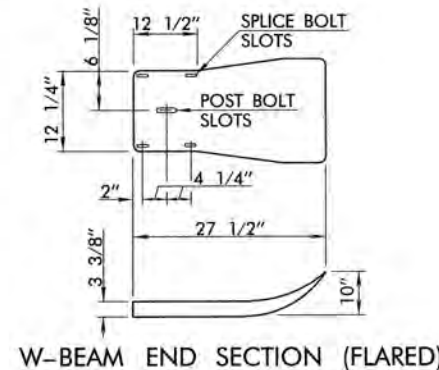
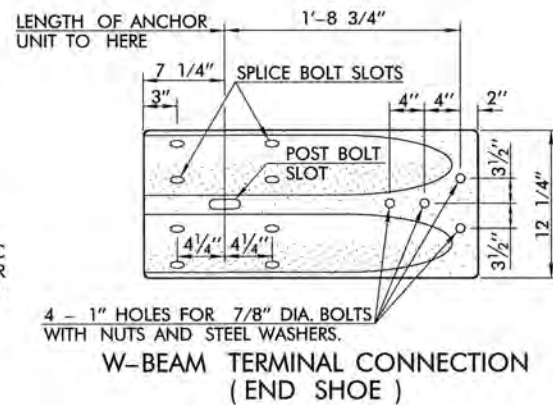


5/8" DIA. BUTTON HEAD BOLT & RECESS NUT



GUARDRAIL SHALL BE LAPPED IN THE DIRECTION OF NEAREST TRAFFIC AT ALL LOCATIONS WHERE SPLICES OCCUR (EXCEPT AT NARROW OR ONE LANE BRIDGE APPROACHES, WHERE LAPS SHALL BE TOWARD THE BRIDGE ON BOTH SIDES OF THE APPROACH ROADWAY).

RAIL SPLICE



GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 2009 ODOT STANDARD SPECIFICATIONS.
2. ALL GUARDRAIL BEAMS, END SHOES, AND END SECTIONS ON THIS STANDARD DRAWING SHALL BE IN ACCORDANCE WITH AASHTO M 180.
3. ALL SPLICE BOLT SLOTS SHALL BE 29/32" WIDE x 1 1/8" LONG.
4. ALL POST BOLT SLOTS SHALL BE 3/4" WIDE x 2 1/2" LONG.



APPROVED BY
ROADWAY ENGINEER: *Timothy A. Pegler* DATE: 12/2/09
ROADWAY STANDARD

GUARDRAIL AND HARDWARE
(2 OF 2)

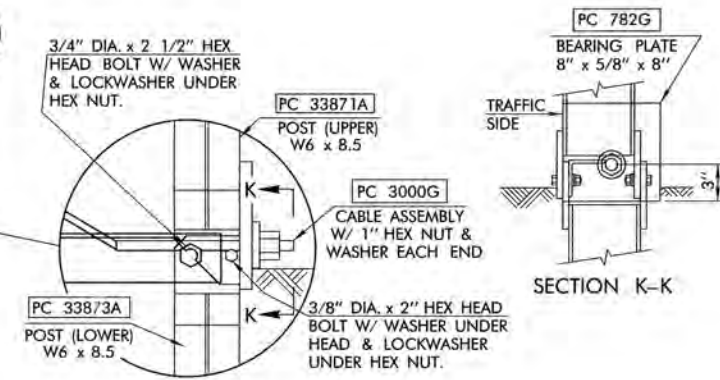
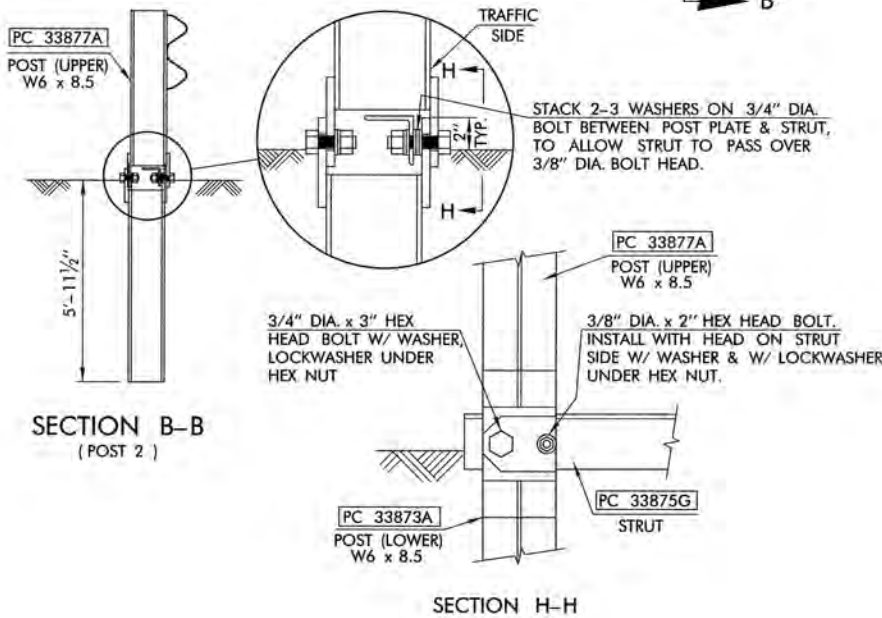
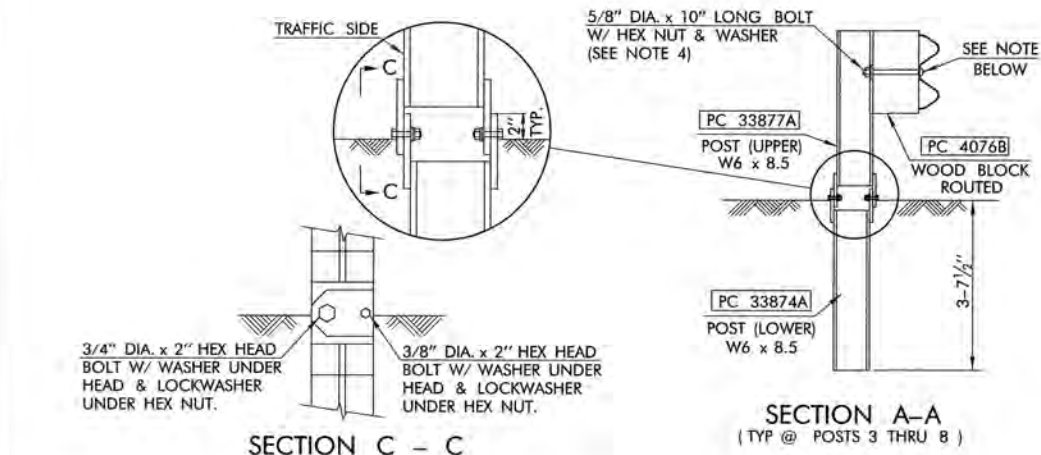
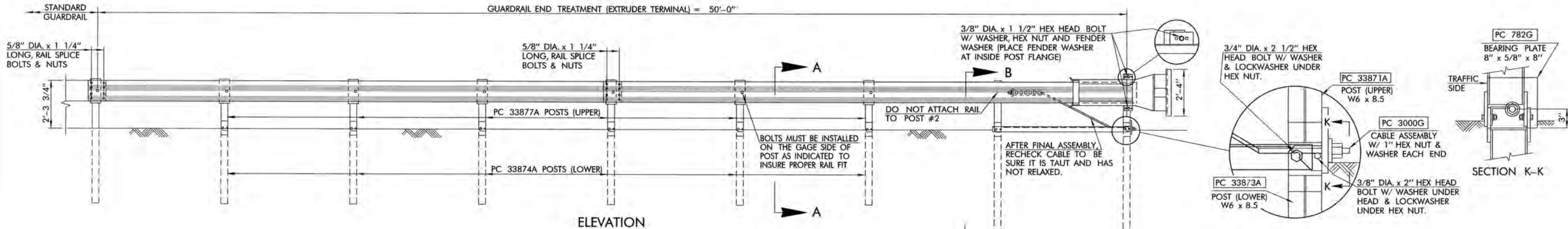
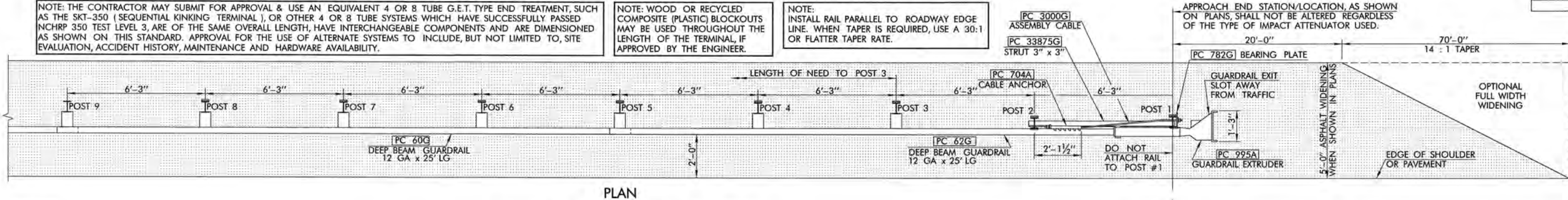
REVISIONS		DATE
DESCRIPTION		

NOTE: THE CONTRACTOR MAY SUBMIT FOR APPROVAL & USE AN EQUIVALENT 4 OR 8 TUBE G.E.T. TYPE END TREATMENT, SUCH AS THE SKT-350 (SEQUENTIAL KINKING TERMINAL), OR OTHER 4 OR 8 TUBE SYSTEMS WHICH HAVE SUCCESSFULLY PASSED NCHRP 350 TEST LEVEL 3, ARE OF THE SAME OVERALL LENGTH, HAVE INTERCHANGEABLE COMPONENTS AND ARE DIMENSIONED AS SHOWN ON THIS STANDARD. APPROVAL FOR THE USE OF ALTERNATE SYSTEMS TO INCLUDE, BUT NOT LIMITED TO, SITE EVALUATION, ACCIDENT HISTORY, MAINTENANCE AND HARDWARE AVAILABILITY.

NOTE: WOOD OR RECYCLED COMPOSITE (PLASTIC) BLOCKOUTS MAY BE USED THROUGHOUT THE LENGTH OF THE TERMINAL, IF APPROVED BY THE ENGINEER.

NOTE: INSTALL RAIL PARALLEL TO ROADWAY EDGE LINE. WHEN TAPER IS REQUIRED, USE A 30:1 OR FLATTER TAPER RATE.

APPROACH END STATION/LOCATION, AS SHOWN ON PLANS, SHALL NOT BE ALTERED REGARDLESS OF THE TYPE OF IMPACT ATTENUATOR USED.



GENERAL NOTES

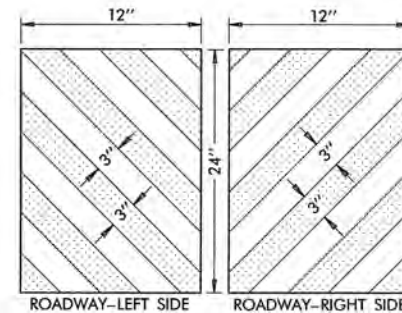
1. ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 2009 ODOT STANDARD SPECIFICATIONS.
2. ONLY 25'-0" W-BEAM GUARDRAIL ELEMENTS MAY BE USED FOR THIS DESIGN BETWEEN POST 1 & POST 5. STANDARD 12'-6" ELEMENTS MAY BE USED BETWEEN POST 5 & POST 9, IF APPROVED BY THE ENGINEER.
3. THE 5/16" FLAT WASHER IS USED UNDER THE NUT BEHIND THE POST ONLY. NO WASHER IS USED ON THE TRAFFIC SIDE OF GUARDRAIL.
4. EXTRUDER TYPE TERMINALS SHALL NOT BE INSTALLED WHEN ADJACENT DRIVING LANES ARE WITHIN 25 FEET (HORIZONTAL) OF EXTRUSION SIDE OF THE EXTRUDER TERMINAL.

BILL OF MATERIAL					
PC	QTY	DESCRIPTION	PC	QTY	DESCRIPTION
60G	1	12GA./25'L/6'-3"SPC (GUARDRAIL)	3910G	2	1" HEX NUT
62G	1	12GA./25'L/6'-3"SPC ANC (GUARDRAIL)	4076B	6	WD BLOCK 1'-2" x 6" x 8" DR
704A	1	CABLE ANCHOR BRACKET	4254G	18	3/8" WASHER
782G	1	5/8" x 8" x 8" BEARING PLATE	4255G	2	3/8" FENDER WASHER (1 1/2" OD)
995A	1	ET-2000 PLUS EXTRUDER	4258G	16	3/8" LOCKWASHER
3000G	1	CABLE 3/4" x 6'-6"	4261G	2	3/8" x 1 1/2" HEX HEAD BOLT
3300G	6	5/8" WASHER	4699G	16	3/4" LOCKWASHER
3340G	22	5/8" HEX NUT	6321G	16	3/8" x 2" HEX HEAD BOLT
3360G	16	5/8" DIA. x 1 1/4" SPLICE BOLT	6405G	18	3/8" HEX NUT
3500G	6	5/8" DIA. x 10" POST BOLT	33871A	1	ET2000 HBA POST 1 TOP
3701G	19	3/4" WASHER	33877A	7	ET2000 HBA POST 2-8 TOP
3704G	16	3/4" HEX NUT	33873A	2	ET2000 HBA POST 1-2 BOTTOM
3717G	15	3/4" x 2 1/2" HEX HEAD BOLT	33874A	6	ET2000 HBA POST 3-8 BOTTOM
3718G	1	3/4" DIA. x 3" HEX HEAD BOLT	33875G	1	6'-6" x 3"x 3" ET HBA ANGLE STRUT
3900G	2	1" WASHER			

PC=PRODUCT CODE ET HBA=EXTRUDER TERMINAL HINGED BREAK AWAY

REFLECTIVE MARKER

1. REFLECTORIZED MARKER(S) SHOULD BE ATTACHED TO THE VERTICAL END (12" x 24" FACE - TYP.) OF THE G.E.T. PRIOR TO INSTALLATION.
2. ATTACHMENT SURFACE SHOULD BE THOROUGHLY CLEANED & DRY BEFORE ATTACHING ADHESIVE MARKER (STICK-ON SHEETING).
3. ATTACHED ADHESIVE SHEETING SHOULD BE FREE OF AIR BUBBLES WITH ALL EDGES FIRMLY BONDED.
4. REFLECTORIZED MARKER(S) WITH ALTERNATE DIMENSIONS MAY BE USED, IF APPROVED BY THE ENGINEER.
5. STRIPING PATTERN MAY CONSIST OF 3" OR 4" STRIPES.



BASIS OF PAYMENT		
ITEM NO.	ITEM	UNIT
623(G)	GUARDRAIL END TREATMENT - EXTRUDER TERMINAL	EA.



APPROVED BY ROADWAY ENGINEER: *Timothy A. Taylor* DATE: 12/2/09
ROADWAY STANDARD

GUARDRAIL END TREATMENT
(EXTRUDER TERMINAL)

ALL GENERAL NOTES SHOWN BELOW SHALL APPLY
TO ALL OF THE STANDARD DRAWINGS IN TCS SERIES

DESCRIPTION	REVISIONS	DATE
MODIFIED NOTES		3/15/2011

CONTRACTOR

ON CONSTRUCTION PROJECTS IT WILL BE THE CONTRACTORS RESPONSIBILITY TO INSTALL THE NECESSARY TRAFFIC CONTROL BEFORE CONSTRUCTION BEGINS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL DEVICES TO ASSURE A HIGH DEGREE OF BOTH DAY AND NIGHT VISIBILITY, WHICH WILL INCLUDE ANY WASHING, REPLACEMENT AND/OR REPOSITIONING WHERE DEEMED NECESSARY BY THE ENGINEER.

THE CONTRACTOR SHALL REPAIR OR REPLACE ANY NEW OR EXISTING PERMANENT STATE OWNED SIGNS WHICH ARE DAMAGED DUE TO HIS NEGLIGENCE OR CARELESS HANDLING DURING THE CONSTRUCTION OF THIS PROJECT. THIS SHALL BE DONE AT THE CONTRACTORS EXPENSE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TEMPORARY TRAFFIC CONTROL WORK ZONE AND EXISTING PAVEMENT MARKINGS ON ALL ROADWAYS OPEN TO TRAFFIC WITHIN THE PROJECT. SUFFICIENT QUANTITIES HAVE BEEN PROVIDED FOR MAINTAINING PAVEMENT MARKINGS FOR PRESCRIBED DETOUR ROUTES WHEN DEEMED NECESSARY BY THE ENGINEER.

SIGN MATERIALS

ALL SIGN BLANK MATERIALS SHALL BE THE OPTION OF THE CONTRACTOR BUT SHALL BE OF SUCH MATERIAL THAT WILL RETAIN A SATISFACTORY APPEARANCE THROUGHOUT THE LIFE OF THE PROJECT.

ALL SIGNS, LIGHTS, FLAGS, ETC. SHALL CONFORM IN SIZE, SHAPE, COLOR, LEGENDS AND APPLICATIONS TO THE STANDARDS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND/OR OKLAHOMA STATE STANDARD DRAWINGS FOR SIGNS. STANDARD DRAWINGS ARE AVAILABLE FROM THE DEPARTMENT OF TRANSPORTATION. INTERPRETATIONS THAT MAY BE NECESSARY SHALL BE REFERRED TO THE ENGINEER.

SIGN SHEETING

REFLECTORIZATION OF TRAFFIC CONTROL DEVICES SHALL BE BY MEANS OF WIDE ANGLE, FLAT TOP REFLECTIVE SHEETING MEETING THE REQUIREMENTS OF 2009, OKLAHOMA STANDARD SPECIFICATIONS.

SIGN INSTALLATION

ALL SIGNS SHALL BE SECURELY PLACED OR WEIGHTED TO PREVENT BLOWING OVER. ROCKS, BROKEN CONCRETE OR OTHER SUCH OBJECTS SHALL NOT BE CONSIDERED AN ACCEPTABLE SUBSTITUTE FOR SAND BAGS WHEN USED TO OBTAIN ADDED STABILITY FOR MOVABLE SIGNS AND BARRICADES.

SPACING OF SIGNING, ON THE PLANS OR TCS STANDARDS, SHOULD BE NO LESS THAN THE DISTANCES SHOWN. THE DISTANCE BETWEEN SIGNS SHOULD BE INCREASED ON HIGH SPEED OR MORE HEAVILY TRAVELED HIGHWAYS, OR WHERE SIGHT DISTANCE IS RESTRICTED.

IN ALL CONSTRUCTION ZONES, THE 48 INCH X 48 INCH WARNING SIGNS SHALL HAVE ATTACHED THERETO FLORESCENT FLAGS AND TYPE "A" WARNING LIGHTS. THIS SHALL ALSO APPLY WHEN SIGNS ARE USED ON BOTH SIDES OF THE ROADWAY. ADDITIONAL FLASHING LIGHTS MAY BE REQUIRED WHEN SO DESIRED BY THE ENGINEER.

ALL DIAMOND SHAPED CONSTRUCTION WARNING SIGNS ON EXPRESSWAYS OR FREEWAYS SHALL BE 48 INCH X 48 INCH, WITH THE APPROPRIATE ADVISORY SIGN WHERE REQUIRED UNLESS OTHERWISE NOTED IN THE PLANS.

DUE TO THE TEMPORARY NATURE OF CONSTRUCTION, SIGNS WHICH ARE 33 S.F. AND OVER WILL HAVE NO REINFORCING STEEL IN THEIR FOOTINGS.

ALL SIGNS AND SIGN ASSEMBLIES WITH A TOTAL SURFACE AREA OF 10 S.F. OR MORE SHALL BE INSTALLED ON TWO (2) POSTS. THE EXCEPTION BEING SINGLE ROUTE MARKER ASSEMBLIES.

SIGNS MOUNTED ON BARRICADES SHALL BE MOUNTED AS HIGH AS NECESSARY TO BE VISIBLE.

BARRICADES

ONE (1) WING BARRICADE SHALL BE SET ON EACH SIDE OF THE ROADWAY IN ADVANCE OF THE FIRST ADVANCE WARNING SIGN. THE EXCEPTIONS ARE MINOR CROSS STREETS AND SECTION LINE ROADS WHICH INTERSECT THE WORK AREA.

WING BARRICADES SHALL BE INSTALLED ON TWO (2) BREAKAWAY POSTS.

WORK DURATION

THE FIVE CATEGORIES OF WORK DURATION AND THEIR TIME AT A LOCATION SHALL BE:
A) LONG-TERM STATIONARY IS WORK THAT OCCUPIES A LOCATION MORE THAN 3 DAYS.
B) INTERMEDIATE-TERM STATIONARY IS WORK THAT OCCUPIES A LOCATION MORE THAN ONE DAYLIGHT PERIOD UP TO 3 DAYS, OR NIGHTTIME WORKLASTING MORE THAN 1 HOUR.
C) SHORT-TERM STATIONARY IS DAYTIME WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 HOUR WITHIN A SINGLE DAYLIGHT PERIOD.
D) SHORT DURATION IS WORK THAT OCCUPIES A LOCATION UP TO 1 HOUR.
E) MOBILE IS WORK THAT MOVES INTERMITTENTLY OR CONTINUOUSLY.

LIGHTING

TYPE "A" WARNING LIGHTS SHALL BE USED ON BARRICADES (AS REQUIRED) AND WARNING SIGNS.

TYPE "C" WARNING LIGHTS MAY BE USED ON VERTICAL PANELS (OPTIONAL).

CONSTRUCTION NOTES

SHOULD THE REQUIRED WORK ON ANY PROJECT, INCLUDING ANY TRAFFIC CONTROL, OVERLAP OR OTHERWISE INTERFERE WITH THE ON-GOING WORK OR TRAFFIC CONTROL OF ANOTHER PROJECT, IT SHALL BE THE RESPONSIBILITY OF THE RESPECTIVE CONTRACTORS TO COORDINATE THEIR WORK ACTIVITIES TO FACILITATE THE SAFE MOVEMENT OF TRAFFIC THROUGHOUT OR AROUND THEIR COLLECTIVE WORK AREAS. ANY SUCH RECOMMENDED CHANGES SHALL BE SUBMITTED IN WRITING TO EACH PROJECT RESIDENT ENGINEER FOR REVIEW AND APPROVAL.

ALL TRAFFIC CONTROL DEVICES NOT REQUIRED FOR THE SAFE CONDUCT OF TRAFFIC THROUGH THE TEMPORARY TRAFFIC CONTROL ZONE SHALL BE PROMPTLY REMOVED, COMPLETELY COVERED, TURNED AWAY FROM TRAFFIC OR OTHERWISE TAKEN OUT OF SERVICE. DEVICES SHALL NOT BE STORED ALONG THE ROADWAY, WITHIN 15 FEET (15') OF AN OPEN DRIVING LANE, EITHER BEFORE OR AFTER THEY ARE TO BE USED UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES. THESE DEVICES SHALL BE REMOVED FROM THE TEMPORARY TRAFFIC CONTROL ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS 15 FEET (15') SETBACK, THE CONTRACTOR SHALL DETERMINE ALTERNATE LOCATIONS AND REQUEST THE ENGINEERS APPROVAL TO USE THEM.

TRAFFIC CONTROL DEVICES, WARNING DEVICES, AND BARRIERS SHALL BE KEPT IN CORRECT POSITION, PROPERLY DIRECTED, CLEARLY VISIBLE AND CLEAN AT ALL TIMES. DAMAGED, DEFACED OR DIRTY DEVICES OR BARRICADES SHALL IMMEDIATELY BE REPAIRED, REPLACED OR CLEANED BY THE CONTRACTOR AND APPROVED FOR USE BY THE ENGINEER.

NO EQUIPMENT OR VEHICLES BELONGING TO THE CONTRACTOR, HIS SUB-CONTRACTORS OR EMPLOYEES SHALL BE PARKED OR STOPPED WITHIN 30 FEET (30') OF A LANE CARRYING TRAFFIC, AT ANY TIME, UNLESS REQUIRED BY ONGOING WORK OPERATIONS.

ALL DETOURS AND DIVERSIONS SHOULD BE IN PLACE, WITH SIGNING, STRIPING AND CHANNELIZING DEVICES, AS SHOWN IN THE PLANS OR STANDARD DRAWINGS, BEFORE THEY ARE OPENED TO TRAFFIC.

WHEN IT BECOMES NECESSARY TO CLOSE THE ROAD TO THROUGH TRAFFIC, NO LESS THAN SEVEN DAYS PRIOR TO THE CLOSURE, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING INDIVIDUALS OR AGENCIES DESCRIBING THE AFFECTED ROAD AND THE APPROXIMATE DURATION OF THE CLOSURE. THOSE TO BE NOTIFIED INCLUDE BUT ARE NOT LIMITED TO 1) LOCAL LAW ENFORCEMENT OFFICIALS, 2) LOCAL FIRE OFFICIALS, 3) AMBULANCE SERVICES, 4) LOCAL SCHOOL SUPERINTENDENT, 5) UNITED STATES POSTAL SERVICE, AND 6) CITY OR COUNTY ROAD SUPERINTENDENT.

ALL TEMPORARY TRAFFIC CONTROL DEVICES, AND THEIR CONDITIONS THROUGHOUT THE LIFE OF THE CONSTRUCTION PROJECT, SHALL MEET O.D.O.T.'S LATEST "QUALITY STANDARDS FOR TEMPORARY TRAFFIC CONTROL DEVICES". THE O.D.O.T. RESIDENT ENGINEER WILL MAKE FINAL DECISION OF ALL TEMPORARY TRAFFIC CONTROL DEVICES BASED ON THE O.D.O.T. GUIDELINES.

NO GENDER BIAS SIGNS ARE ALLOWED.

ARROW DISPLAY

USE OF AN ARROW DISPLAY, IN THE ARROW OR CHEVRON MODE, SHALL BE LIMITED TO STATIONARY OR MOVING LANE CLOSURES.

AN ARROW DISPLAY, IN THE CAUTION MODE, SHALL BE USED ONLY FOR SHOULDER WORK, BLOCKING THE SHOULDER, ROADSIDE WORK NEAR THE SHOULDER, OR FOR MOBILE OPERATIONS (I.E. STRIPING).

AN ARROW DISPLAY IN THE ARROW OR CHEVRON MODE, SHALL NOT BE USED ON A TWO-LANE, TWO-WAY ROADWAY FOR TEMPORARY ONE-LANE OPERATION.

AN ARROW DISPLAY SHALL NOT BE USED ON A MULTI-LANE ROADWAY TO LATERSALLY SHIFT TRAFFIC.

CHANNELIZING DEVICES

IN THOSE AREAS WHERE DRIVERS ARE ASKED TO MAKE A DECISION OR MUST BE GUIDED THROUGH A PRECISE MOVEMENT, BY USE OF CHANNELIZING DEVICES, IT IS ESPECIALLY IMPORTANT TO PROVIDE A CLEARLY DEFINED PATH. EXAMPLES OF THIS COULD BE IN DELINEATING A TEMPORARY GORE OR TURNING RADIUS. IN SUCH AREAS THE SPACING OF CHANNELIZING DEVICES MAY BE REDUCED TO 10 FEET FOR SPEEDS OF 40 M.P.H. OR LESS, AND 20 FEET FOR SPEEDS GREATER THAN 40 M.P.H.

WHEN CHANNELIZING DEVICES ARE USED TO DIRECT TRAFFIC ACROSS EXISTING LANE LINES OR EDGE LINES, THE SPACING BETWEEN CHANNELIZING DEVICES SHALL BE REDUCED 50%. SPACING SHOULD ALSO BE REDUCED WHEN CHANNELIZING DEVICES ARE PLACED ON CURVES, HILLS, OR NEXT TO POTENTIAL HAZARDS.

ALL TRAFFIC CONTROL CHANNELIZING DEVICES SHALL MEET MUTCD COLOR REQUIREMENTS.

FLAGGERS

FLAGGERS MUST BE CLEARLY VISIBLE TO APPROACHING TRAFFIC FOR A DISTANCE SUFFICIENT TO PERMIT PROPER RESPONSE BY MOTORISTS TO THE FLAGGING INSTRUCTIONS, AND TO PERMIT TRAFFIC TO REDUCE SPEED OR STOP BEFORE ENTERING THE TEMPORARY TRAFFIC CONTROL ZONE. FLAGGERS SHALL BE POSITIONED TO MAINTAIN MAXIMUM COLOR CONTRAST BETWEEN THE FLAGGER'S REFLECTIVE CLOTHING AND EQUIPMENT AND THE WORK AREA BACKGROUND.

DURING HOURS OF DARKNESS, FLAGGER STATIONS SHALL BE ILLUMINATED SUCH THAT THE FLAGGER WILL BE CLEARLY VISIBLE TO APPROACHING TRAFFIC. LIGHTS TO BE USED FOR ILLUMINATING THE STATION SHALL BE APPROVED BY THE ENGINEER. REFLECTORIZED PADDLES AND REFLECTORIZED VESTS, SHIRTS OR JACKETS SHALL BE USED FOR NIGHTTIME FLAGGING.

UNLESS OTHERWISE SPECIFIED IN THE PLANS, THE COST OF FLAGGING OPERATIONS SHALL BE INCLUDED IN OTHER ITEMS OF WORK.

MINIMUM STANDARDS FOR TRAFFIC CONTROL DEVICES

- (1) WARNING LIGHTS (TYPE A FLASHERS AND TYPE C STEADY BURN)
 - (A) NOT LESS THAN NINETY (90) PERCENT OF THE TOTAL NUMBER OF LIGHTS BEING USED AT ANY ONE TIME SHALL BE FULLY OPERATIONAL.
 - (B) NOT MORE THAN THREE (3) LIGHTS ADJACENT TO ONE ANOTHER SHALL BE FAILING.
- (2) ARROW DISPLAY
 - (A) WHEN IN ARROW MODE, NO MORE THAN TWO (2) LAMPS IN THE STEM AND ZERO (0) LAMPS IN THE HEAD SHALL BE FAILING. THE DIMMING FUNCTION SHALL BE OPERATING PROPERLY.
 - (B) WHEN IN CAUTION MODE (CORNERS), A MINIMUM OF FOUR (4) LAMPS SHALL BE OPERATIONAL. THE DIMMING FUNCTION SHALL BE OPERATING PROPERLY.
 - (C) ANY LAMP WHICH IS LIGHTED BUT IMPROPERLY ALIGNED SHALL NOT BE CONSIDERED OPERATIONAL.
- (3) CHANGEABLE MESSAGE SIGNS
 - (A) NOT LESS THAN NINETY (90) PERCENT OF THE PIXELS SHALL BE FUNCTIONAL IN EACH CHARACTER MODULE.
 - (B) NO SANDBAG BALLASTING OVER 3 FEET IN HEIGHT.
- (4) PAVEMENT MARKING TAPE
 - (A) NOT MORE THAN TEN (10) PERCENT OF ALL TAPE, PAINT, MESSAGE OR SYMBOL SHALL BE MISSING.
 - (B) NOT MORE THAN TWO (2) CONSECUTIVE DASHED LINES SHALL BE MISSING.
 - (C) NOT MORE THAN FIFTY (50) CONTINUOUS FEET OF A SOLID LINE SHALL BE MISSING.
- (5) CONSTRUCTION ZONE PAVEMENT MARKERS
 - (A) NOT MORE THAN TEN (10) PERCENT OF THE TOTAL NUMBER OF MARKERS SHALL BE MISSING.
 - (B) NOT MORE THAN THREE (3) CONSECUTIVE MARKERS SHALL BE MISSING.

STRIPING

WHENEVER THE WORK CAUSES THE OBLITERATION OF PAVEMENT MARKINGS, EITHER TEMPORARY OR PERMANENT MARKINGS SHALL BE IN PLACE PRIOR TO OPENING THE ROADWAY TO TRAFFIC. CENTERLINE PAVEMENT MARKINGS SHALL BE PROVIDED AT ALL TIMES FOR ROADWAYS OPEN TO TRAFFIC.

THE APPLICATION SURFACES FOR PAVEMENT MARKINGS SHALL BE FREE OF DUST, DIRT, MOISTURE OR OTHER FOREIGN MATTER WHICH WOULD INTERFERE WITH ADHESION. INSTALLATION OF ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

ALL TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED IMMEDIATELY AHEAD OF THE PERMANENT STRIPING OPERATIONS OR RE-STRIPING FOR FOLLOWING CONSTRUCTION PHASES.

WHEN REMOVABLE PAVEMENT MARKINGS TAPE IS TO BE INSTALLED ON NEW CONCRETE PAVEMENT, THE CURING COMPOUND SHALL BE REMOVED PRIOR TO INSTALLATION.

IF REMOVABLE PAVEMENT MARKING TAPE IS INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS AND FAILS DURING THE FIRST SIX MONTHS OF SERVICE, IT SHALL BE REPLACED AT THE CONTRACTORS EXPENSE. REPLACEMENT SHALL BE ACCOMPLISHED IN A TIMELY MANNER UPON BEING NOTIFIED, BY THE ENGINEER, OF SUCH FAILURE.

PILOT CAR

WHEN LANE CLOSURES ARE REQUIRED ON TWO-LANE /TWO-WAY ROADWAYS, THE CONTRACTOR MAY, AT HIS OPTION, UTILIZE A PILOT CAR. IF THE CONTRACTOR ELECTS TO USE A PILOT CAR, CHANNELIZING DEVICES ALONG THE CENTERLINE WILL NOT BE REQUIRED. THE PILOT CAR OPERATOR SHALL BE IN RADIO CONTACT WITH PERSONNEL IN THE TEMPORARY TRAFFIC CONTROL ZONE. MAXIMUM SPEED OF THE PILOT CAR THROUGH THE WORK AREA SHALL BE 25 M.P.H. FULL COMPENSATION FOR FURNISHING AND OPERATING THE PILOT CAR, (INCLUDING DRIVER, RADIOS, AND ANY OTHER EQUIPMENT OR LABOR REQUIRED) SHALL BE CONSIDERED AS INCLUDED IN THE COST OF OTHER ITEMS OF WORK.

MISCELLANEOUS

TRAFFIC CONDITIONS MAY NECESSITATE CHANGES IN THE USE AND/OR QUANTITIES OF THE TRAFFIC CONTROL DEVICES AS SHOWN IN THE PLANS OR IN THE STANDARDS. ANY SUCH CHANGES ARE SUBJECT TO APPROVAL BY THE ENGINEER.

ALL CHANNELIZING DEVICES PROVIDED ON THIS PROJECT SHALL BE IN GOOD CONDITION AND SHALL BE APPROVED FOR USE ON THIS PROJECT BY THE ENGINEER.

THE REGULATORY SPEED LIMITS THROUGH THE WORK ZONE MAY BE ADJUSTED AT THE DISCRETION OF THE ENGINEER WITH THE DOCUMENTED APPROVAL OF THE DIVISION ENGINEER IN ACCORDANCE WITH TITLE 47 OF THE OKLAHOMA MOTOR VEHICLE LAWS.

THE TERMINATION AREA EXTENDS FROM THE DOWNSTREAM END OF THE WORK AREA TO THE TEMPORARY TRAFFIC CONTROL DEVICE SUCH AS "END ROAD WORK" SIGNS, IF POSTED. A SPEED SIGN, OR OTHER SIGNS MAY BE USED TO INFORM ROAD USERS THAT THEY CAN RESUME NORMAL OPERATIONS.

THE CONSTRUCTION SIGNING AND BARRICADE CONTRACTOR SHOULD AFFIX THEIR COMPANY NAME AND/OR LOGO INCONSPICUOUSLY ON EACH TRAFFIC CONTROL DEVICE.



APPROVED BY
TRAFFIC ENGINEER: *Paul J. Smith* DATE: 3/21/11

TRAFFIC STANDARD
TRAFFIC CONTROL STANDARD
TRAFFIC CONTROL CONSTRUCTION NOTES

2009 SPECIFICATIONS

TCS1-1

01

T-501

TAPER LENGTH CRITERIA FOR WORK ZONES

SPEED LIMIT M.P.H.	"L" FORMULA	"L" TAPER LENGTH (MINIMUM) (FT)			NUMBER OF CHANNELIZING DEVICES REQUIRED (MINIMUM)			SPACING CHANNELIZING DEVICES (MAXIMUM)		MAXIMUM HORIZONTAL ALIGNMENT THRU DETOUR (DEGREE) (S=0)	SPEED LIMIT M.P.H.
		10' OFFSET	11' OFFSET	12' OFFSET	10' OFFSET	11' OFFSET	12' OFFSET	① THRU TAPER SECTION (FT.)	② THRU TANGENT SECTION (FT.)		
20	$L = \frac{W \times S^2}{60}$	70	75	80	5	5	5	20	40	—	20
25		105	115	125	6	6	6	25	50	—	25
30		150	165	180	6	7	7	30	60	15	30
35		205	225	245	7	8	8	35	70	11	35
40	$L = W \times S$	265	295	320	8	9	9	40	80	8	40
45		450	495	540	11	12	13	45	90	6	45
50		500	550	600	11	12	13	50	100	5	50
55		550	605	660	12	14	15	50	100	4	55
60		600	660	720	13	15	16	50	100	3	60
65		650	715	780	14	16	17	50	100	2.5	65
70		700	770	840	15	17	18	50	100	2	70
75		750	825	900	16	18	19	50	100	1.8	75

NOTES:

- ① RECOMMENDED SIGNING TO BE USED THRU LANE TAPER IS (1) CW1-S ON EVERY OTHER DRUM.
- ② RECOMMENDED SIGNING TO BE USED THRU TANGENT LANES IS (1) R4-7A(R) OR (1) R4-7A(L) (AS APPLIES) ON EVERY OTHER DRUM.
- L = TAPER LENGTH IN FEET
- W = WIDTH OF OFFSET IN FEET
- S = POSTED SPEED OR OFF-PEAK 85 PERCENTILE SPEED IN MPH

TYPE OF TAPER
UPSTREAM TAPERS
MERGING TAPER
SHIFTING TAPER
SHOULDER TAPER
TWO-WAY TRAFFIC TAPER

TAPER LENGTH
L MINIMUM
1/2 L MINIMUM
1/3 L MINIMUM
100 FEET MAXIMUM
100 FEET PER LANE
(USE IS OPTIONAL)

RECOMMENDED CLEAR ZONE DISTANCE (FT) (CONSTRUCTION WORK ZONES)

DESIGN SPEED	DESIGN ADT	FILL SLOPES			CUT SLOPES		
		6:1 OR FLATTER	5:1 OR 4:1	3:1	3:1	4:1 OR 5:1	6:1 OR FLATTER
40 MPH OR LESS	UNDER 750	4	4	SEE NOTE 3	4	4	4
	750-1500	5	6		5	5	5
	1500-6000	6	7		6	6	6
	OVER 6000	7	8		7	7	7
45-50 MPH	UNDER 750	5	6		4	4	5
	750-1500	7	8		5	6	7
	1500-6000	8	10		6	7	8
	OVER 6000	10	12		7	9	10
55 MPH	UNDER 750	6	7		4	5	5
	750-1500	8	10		5	7	8
	1500-6000	10	12		7	8	10
	OVER 6000	11	13		8	10	11
60 MPH	UNDER 750	8	10		5	6	7
	750-1500	10	13		6	8	10
	1500-6000	13	16 *		7	9	12
	OVER 6000	15	18 *		10	12	13
65-70 MPH	UNDER 750	9	10		5	7	7
	750-1500	12	14		6	9	10
	1500-6000	14	17 *		8	11	13
	OVER 6000	15	19 *		11	13	14

NOTES:

- * THE CLEAR ZONE MAY BE LIMITED TO 15 FEET FOR PRACTICALITY AND TO PROVIDE A CONSISTENT ROADWAY TEMPLATE.
- (1) ALL DISTANCES ARE MEASURED FROM EDGE OF THE TRAVEL LANE.
- (2) FOR CLEAR ZONES, THE "DESIGN ADT" WILL BE THE TOTAL ADT ON TWO-WAY ROADWAYS AND DIRECTIONAL ADT ON ONE-WAY ROADWAYS (E.G., RAMPS AND ONE ROADWAY OF A DIVIDED HIGHWAY).
- (3) FILL SLOPES WHICH ARE 3:1 OR STEEPER ARE CRITICAL AND MAY REQUIRE A BARRIER, THEREFORE THERE IS NOT A CLEAR ZONE APPLICATION.

FLARE RATES FOR CONCRETE MEDIAN BARRIER IN TEMPORARY TRAFFIC CONTROL ZONES

SPEED *	FLARE RATE (MINIMUM)
40 M.P.H.	9 TO 1
45 M.P.H.	10 TO 1
50 M.P.H.	11 TO 1
55 M.P.H.	12 TO 1
60 M.P.H.	13 TO 1
65 M.P.H.	14 TO 1
70 M.P.H.	15 TO 1
75 M.P.H.	16 TO 1

* POSTED SPEED LIMIT PRIOR TO CONSTRUCTION

STOPPING SIGHT DISTANCE AS A FUNCTION OF SPEED

SPEED * (MPH)	LENGTH (FEET)
20 M.P.H.	115
25 M.P.H.	155
30 M.P.H.	200
35 M.P.H.	250
40 M.P.H.	305
45 M.P.H.	360
50 M.P.H.	425
55 M.P.H.	495
60 M.P.H.	570
65 M.P.H.	645
70 M.P.H.	730
75 M.P.H.	820

* POSTED SPEED, OFF-PEAK 85th PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED.

RECOMMENDED DISTANCE BETWEEN SIGNS (MIN.)

ROAD TYPE	A (FT)	B (FT)	C (FT)
URBAN (LOW SPEED)	100	100	100
URBAN (HIGH SPEED)	350	350	350
RURAL	500	500	500
EXPRESSWAY /FREEWAY	1,000	1,500	2,640

DESCRIPTION	REVISIONS	DATE
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PAVEMENT MARKINGS THROUGH TEMPORARY TRAFFIC CONTROL ZONE

	DRIVING SURFACE	FLEX TAB MARKERS	TAPE (REMOVABLE)	TAPE (NON-REMOVABLE)	PAINT	CONSTRUCTION ZONE PAVEMENT MARKERS
ASPHALT	EXISTING PAVEMENT TO BE REMOVED OR OVERLAYED IN THE NEXT PHASE	X	X	X	X	X
	EXISTING PAVEMENT TO BE LEFT IN PLACE THRU THE NEXT PHASE	X	X			X
	INTERMEDIATE LIFT	X	X	X	X	X
	MILLED SURFACE	X	X	X	X	X
	FINAL LIFT	X	X			
CONCRETE	EXISTING PAVEMENT TO BE REMOVED OR OVERLAYED IN THE NEXT PHASE	X	X	X	X	X
	EXISTING PAVEMENT TO BE LEFT IN PLACE THRU THE NEXT PHASE	X	X			X
	FINAL SURFACE	X	X		X	X

NOTE:

USE OF NON-REMOVABLE TAPE (FOILBACK) SHALL BE LIMITED TO THOSE CONDITIONS SHOWN IN THE TABLE.

CROSSOVER CRITERIA FOR WORK ZONES

WIDTH OF MEDIAN (W) (FT)	LATERAL SHIFT - (P) (FT)	LENGTH OF CROSSOVER - LC ☆ (FT)											
		V.	30 M.P.H.	35 M.P.H.	40 M.P.H.	45 M.P.H.	50 M.P.H.	55 M.P.H.	60 M.P.H.	65 M.P.H.	70 M.P.H.	75 M.P.H.	
		D.	15°	11°	8°	6°	5°	4°	3°	2.5°	2°	1.8°	
		R.	382	521	716	955	1146	1433	1910	2292	2865	3183	
20	32		219	256	301	348	382	427	493	541	605	637	
30	42		250	293	344	398	437	489	565	619	692	730	
40	52		277	325	382	443	485	543	628	688	770	812	
50	62		301	354	417	483	529	593	685	751	841	886	
60	72		324	381	448	519	570	638	738	809	905	955	
70	82		344	405	478	554	608	681	787	863	966	1,018	
80	92		363	428	505	586	643	720	833	914	1,023	1,078	
90	102		381	450	531	616	676	758	877	962	1,076	1,135	
100	112		398	470	555	644	708	793	918	1,007	1,127	1,189	
110	122		414	489	578	672	738	827	958	1,050	1,176	1,240	
120	132		429	508	601	698	767	860	995	1,092	1,223	1,290	

* CROSSOVER = REVERSE CURVE CONNECTION TYING TWO (2) PARALLEL ROADWAYS.

APPROVED BY
TRAFFIC ENGINEER

DATE: 5/23/10

TRAFFIC STANDARD
TRAFFIC CONTROL STANDARD
TRAFFIC CONTROL TABLES AND CHARTS

2009 SPECIFICATIONS

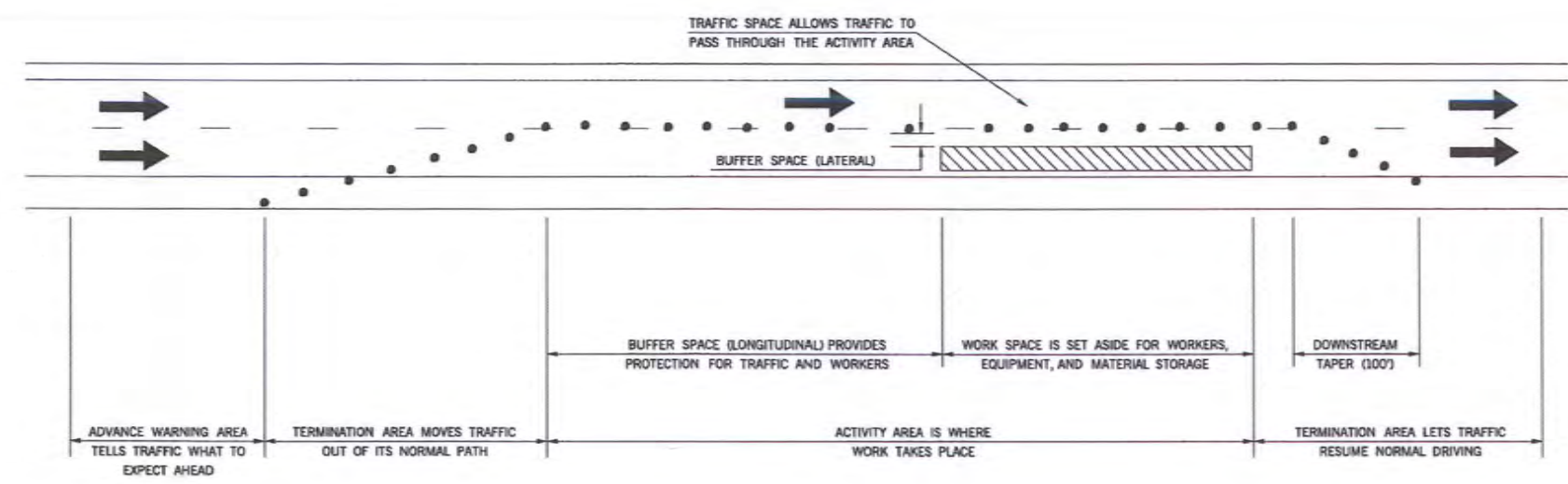
TCS2-1

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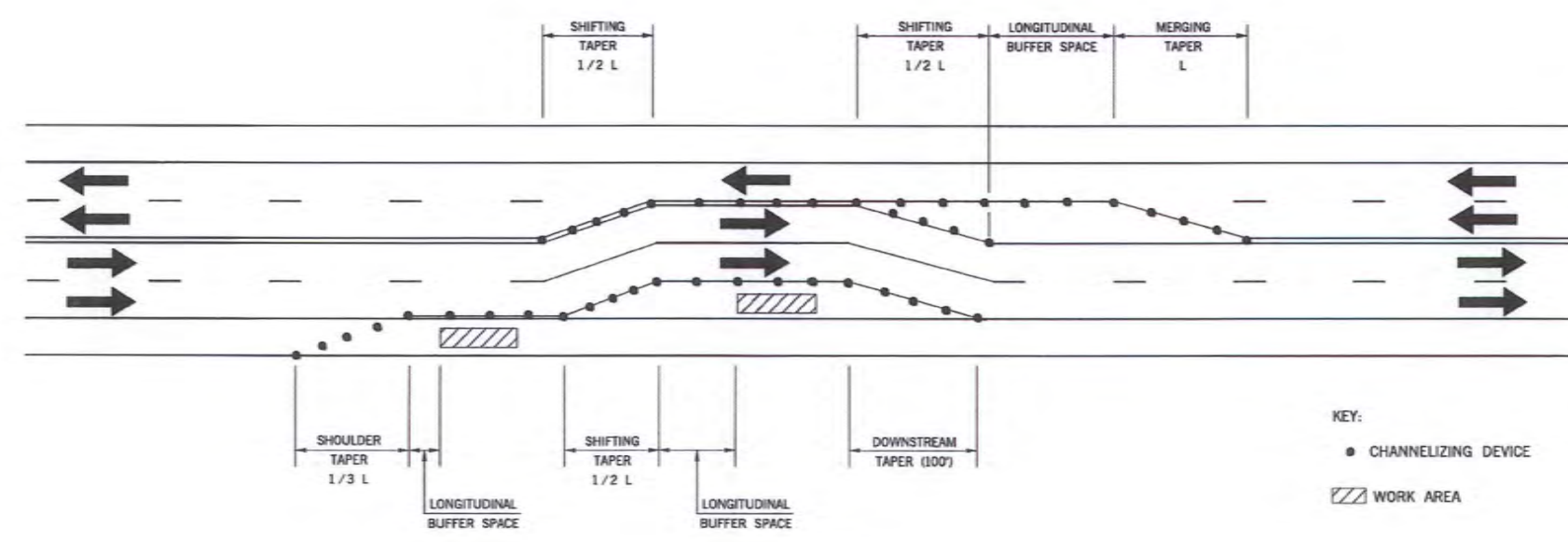
T-502

TRFPC36 M:\2009_Standards_TC\503.dgn 8:16:08 AM 6/2/2010 d:\usr2\filb\leryh.pen R:\TRAF_PLOT\bw.tb

DESCRIPTION	REVISIONS	DATE
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COMPONENT PARTS OF A TEMPORARY TRAFFIC CONTROL ZONE



TAPERS AND BUFFER SPACE

TEMPORARY TRAFFIC CONTROL ELEMENTS



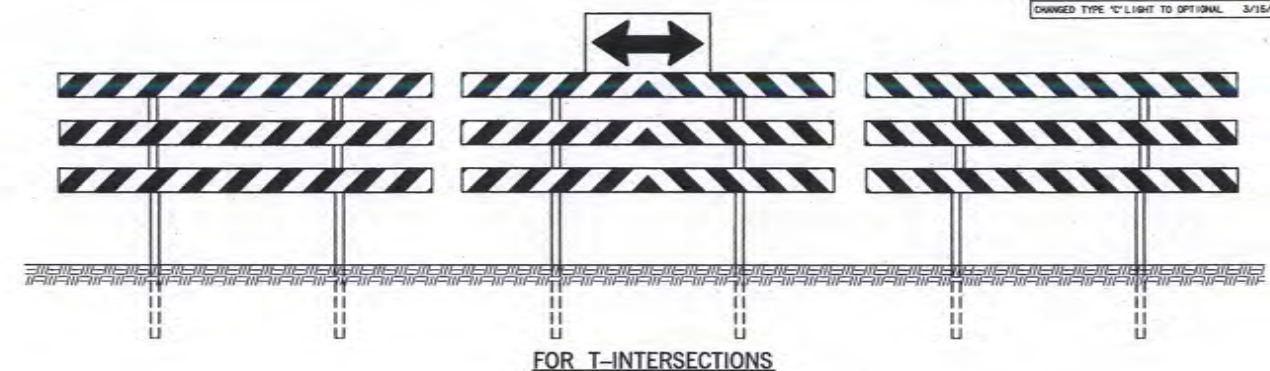
APPROVED BY
TRAFFIC ENGINEER *David Smith* DATE *6/23/10*

TRAFFIC STANDARD

TRAFFIC CONTROL STANDARD
TEMPORARY TRAFFIC CONTROL ELEMENTS

2009 SPECIFICATIONS

TCS3-1	00
T-503	



PERMANENT TYPE III(A/B) BARRICADE
(DIMENSIONS ARE TYPICAL FOR BOTH BARRICADES)

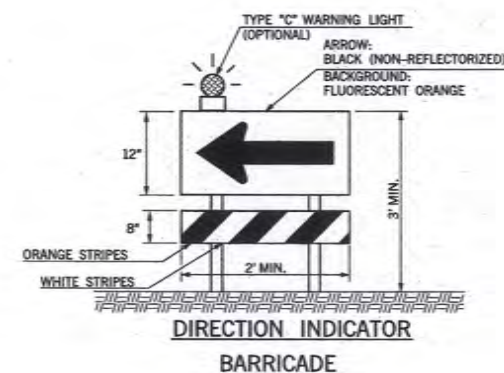
NOTES: A PERMANENT BARRICADE TYPE III(A) SHALL CONSIST OF NINE (9) PANELS AND SIX (6) POSTS.

TYPICAL INSTALLATION AS SHOWN IS FOR AN ABSOLUTE CLOSURE.

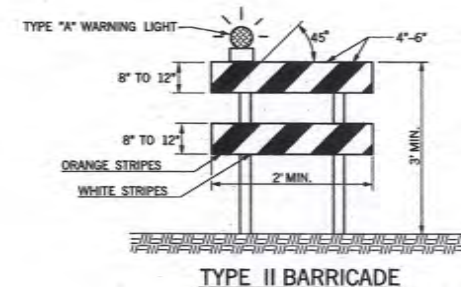
BARRICADES SHOULD NOT BE PLACED PARALLEL TO TRAFFIC IF NOT OUTSIDE OF CLEAR ZONE.

PERMANENT BARRICADE TYPE III(B) WILL BE IDENTICAL TO TYPE III(A) WITH NINE (9) ADDITIONAL REFLECTORIZED 3/4"x12" LUMBER PANELS ATTACHED TO THE BACK SIDE OF THE BARRICADE.

COLOR: BACKGROUND - WHITE (REFLECTORIZED)
DIAGONAL STRIPES - RED (REFLECTORIZED)



DIRECTION INDICATOR
BARRICADE



TYPE II BARRICADE

NOTES: FOR WOODEN BARRICADES NOMINAL LUMBER DIMENSIONS WILL BE SATISFACTORY.

FOR RAILS LESS THAN 3 FEET LONG, 4 INCH WIDE STRIPES SHALL BE USED.

TYPE III BARRICADES SHALL BE CONSTRUCTED USING A MINIMUM OF TWO (2) POSTS.

FOR WOODEN BARRICADES, PANEL THICKNESS SHALL NOT EXCEED ONE-HALF INCH (1/2").

BARRICADES SHOULD NOT BE PLACED PARALLEL TO TRAFFIC IF NOT OUTSIDE OF CLEAR ZONE

PROJECTS WITH WORK LIMITS OF 2.0 MILES OR MORE IN LENGTH WILL REQUIRE THE G20-1A SIGN. THE SIGN (G20-1A) WILL BE REQUIRED ON ONE SIDE OF A 2-LANE ROADWAY AND BOTH SIDES OF A DIVIDED HIGHWAY.

ALL BARRICADE STRIPES SHALL BE RETROREFLECTIVE.

COLOR: BACKGROUND - WHITE (REFLECTORIZED)
DIAGONAL STRIPES - FLUORESCENT ORANGE (REFLECTORIZED)

IF BARRICADES ARE USED TO CHANNELIZE PEDESTRIANS, THERE SHALL BE CONTINUOUS DETECTABLE BOTTOM AND TOP RAILS WITH NO GAPS BETWEEN INDIVIDUAL BARRICADES TO BE DETECTABLE TO USERS OF LONG CANES. THE BOTTOM OF THE BOTTOM RAIL SHALL BE NO HIGHER THAN 6 INCHES ABOVE THE GROUND SURFACE. THE TOP OF THE TOP RAIL SHALL BE NO LOWER THAN 36 INCHES ABOVE THE GROUND SURFACE.

SIGNS MOUNTED ON TYPE III BARRICADES SHOULD NOT COVER MORE THAN 50 PERCENT OF THE TOP TWO RAILS OR 33 PERCENT OF THE TOTAL AREA OF THE THREE RAILS

SIGNS MOUNTED ON BARRICADES, OR OTHER PORTABLE SUPPORTS, SHALL BE NO LESS THAN 1' ABOVE THE TRAVELED WAY.

SANDBAGS MAY BE PLACED ON LOWER PARTS OF THE FRAME OR THE STAYS OF BARRICADES TO PROVIDE THE REQUIRED BALLAST.

BALLAST SHALL NOT BE PLACED ON TOP OF ANY STRIPED RAIL. BARRICADES SHALL NOT BE BALLASTED BY NONDEFORMABLE OBJECTS SUCH AS ROCKS OR CHUNKS OF CONCRETE. BALLAST SHALL NOT EXTEND INTO THE ACCESSIBLE PASSAGE WIDTH OF 60".

DIRECTION INDICATOR BARRICADE SHALL CONSIST OF A ONE-DIRECTION LARGE ARROW (W1-6) SIGN MOUNTED ABOVE A DIAGONAL STRIPED, HORIZONTALLY ALIGNED, RETRO-REFLECTIVE RAIL.

WHERE BARRICADES EXTEND ENTIRELY ACROSS A ROADWAY, THE STRIPES SHOULD SLOPE DOWNWARD IN THE DIRECTION TOWARD WHICH ROAD USERS MUST TURN.

WHERE BOTH RIGHT AND LEFT TURNS ARE PROVIDED, THE BARRICADE STRIPES SHOULD SLOPE DOWNWARD IN BOTH DIRECTIONS FROM THE CENTER OF THE BARRICADE OR BARRICADES.

WHERE NO TURNS ARE INTENDED, THE STRIPES SHOULD BE POSITIONED TO SLOPE DOWNWARD TOWARD THE CENTER OF THE BARRICADE OR BARRICADES.

BASIS OF PAYMENT		
ITEM NO.	ITEM	UNIT
880(B)	CONSTRUCTION SIGNS	SD
880(C)	CONSTRUCTION BARRICADES	SD
880(F)	WARNING LIGHTS	SD



APPROVED BY
TRAFFIC ENGINEER: *David J. Smith*

DATE: 3/21/11

TRAFFIC STANDARD

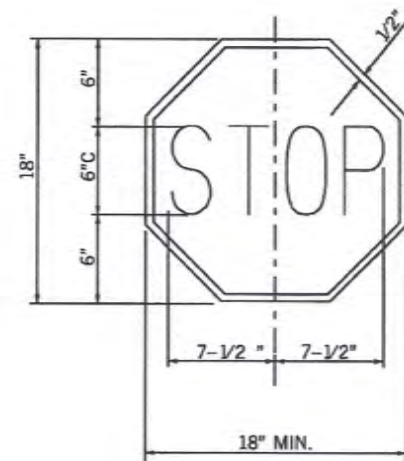
TRAFFIC CONTROL STANDARD TRAFFIC CONTROL DEVICES

2009 SPECIFICATIONS

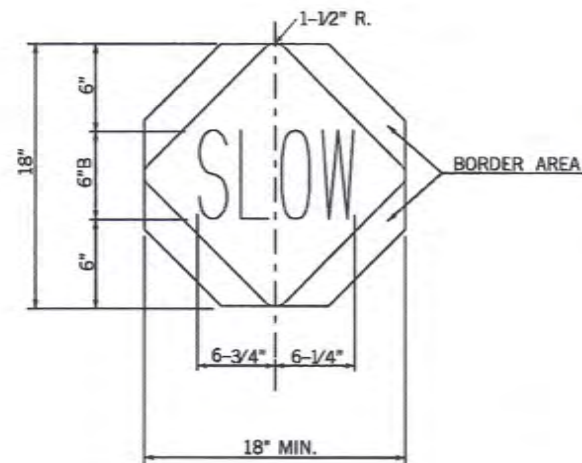
TCS4-1

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T-504

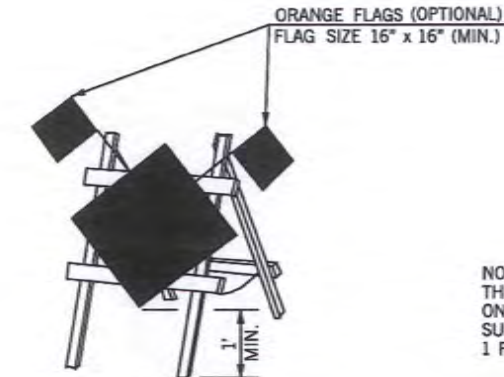
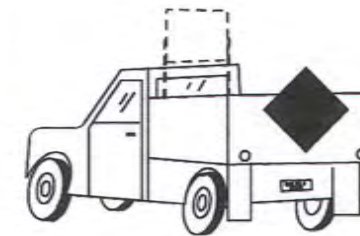
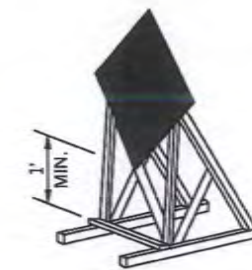
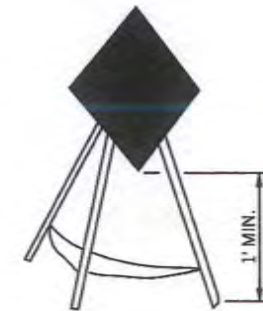


STOP:
LEGEND AND BORDER: WHITE (REFLECTORIZED)
BACKGROUND: RED (REFLECTORIZED)



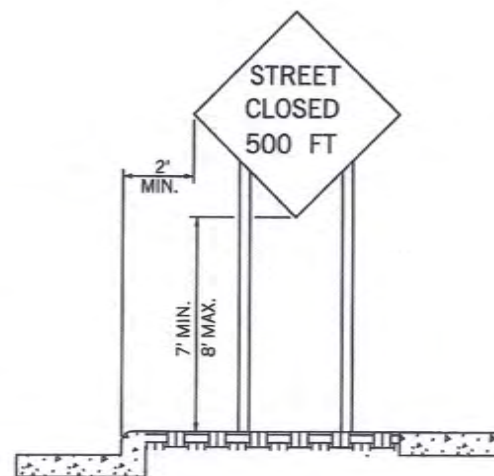
SLOW:
LEGEND AND BORDER AREA: BLACK (NON-REFLECTORIZED)
BACKGROUND: ORANGE (REFLECTORIZED)

STOP-SLOW PADDLE

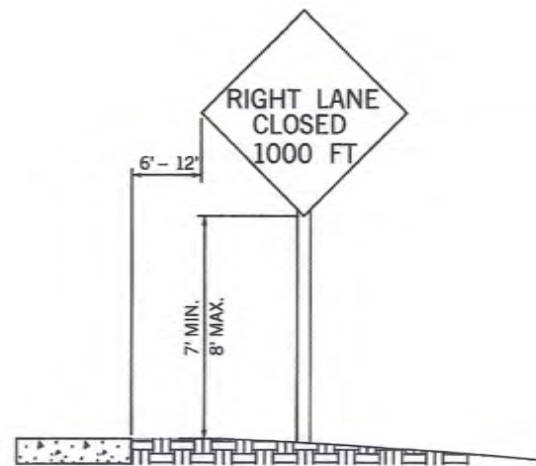


NOTE:
THE BOTTOM OF SIGNS MOUNTED
ON BARRICADES OR TEMPORARY
SUPPORTS SHALL NOT BE LESS THAN
1 FOOT ABOVE THE TRAVELED WAY.

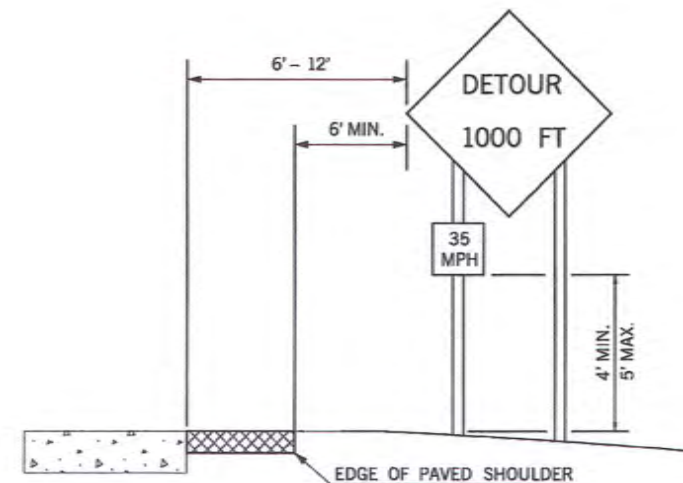
PORTABLE AND TEMPORARY MOUNTINGS METHODS OF MOUNTING SIGNS OTHER THAN ON POSTS



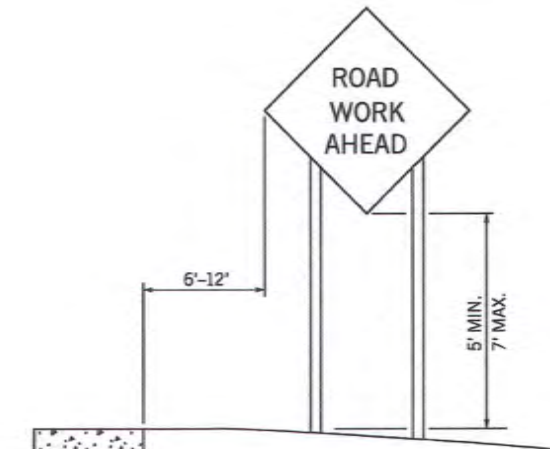
URBAN DISTRICT (WITH CURB)



URBAN DISTRICT (WITHOUT CURB)



RURAL DISTRICT WITH ADVISORY SPEED PLATE



RURAL DISTRICT

HEIGHT AND LATERAL LOCATIONS OF SIGNS - TYPICAL INSTALLATIONS



APPROVED BY
TRAFFIC ENGINEER *David Smith* DATE: 6/23/10

TRAFFIC STANDARD

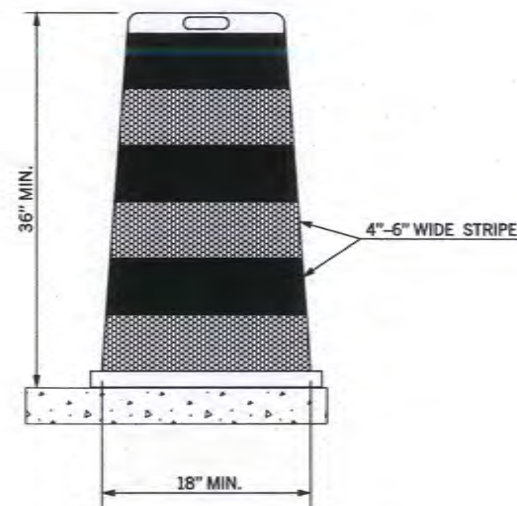
TRAFFIC CONTROL STANDARD
TYPICAL SIGN INSTALLATION

2009 SPECIFICATIONS

TCS5-1

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T-505



DRUM

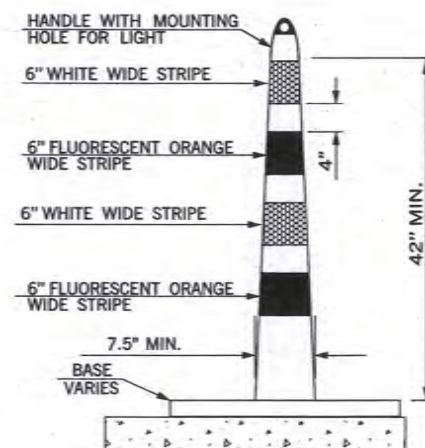
NOTES:

METAL DRUMS SHALL NOT BE USED.

EACH DRUM SHALL HAVE A MINIMUM OF TWO (2) FLUORESCENT ORANGE STRIPES ALTERNATING WITH A MINIMUM OF TWO (2) WHITE STRIPES. THESE STRIPES SHALL CONSIST OF RETROREFLECTIVE SHEETING.

BALLAST SHALL NOT BE PLACED ON TOP OF A DRUM.

DRUMS SHALL NOT BE USED TO DELINEATE AN EDGE DROP OFF IF THEY MUST BE PLACED IN THE DROP OFF AREA BELOW THE LEVEL OF THE DRIVING SURFACE.



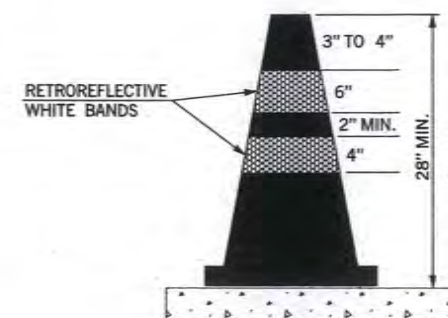
CHANNELIZER CONE

NOTES:

CHANNELIZER CONES USED ON HIGH SPEED ROADWAYS, ON ALL HIGHWAYS DURING NIGHTTIME, OR WHENEVER MORE CONSPICUOUS GUIDANCE IS NEEDED SHALL BE A MINIMUM OF 42 INCHES HIGH.

EACH CHANNELIZER CONES SHALL HAVE A MINIMUM OF TWO (2) FLUORESCENT ORANGE STRIPES ALTERNATING WITH A MINIMUM OF TWO (2) WHITE STRIPES. THESE STRIPES SHALL CONSIST OF RETROREFLECTIVE SHEETING.

BASE SHALL WEIGH 30 LBS. OR MORE.

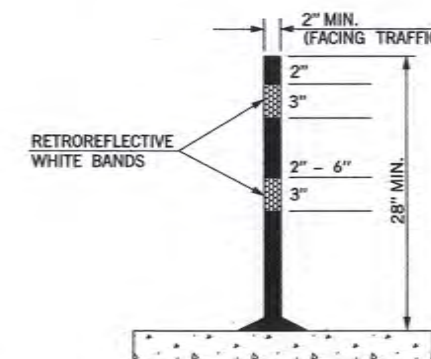


CONE

NOTES:

CONES USED ON HIGH SPEED ROADWAYS, ON ALL HIGHWAYS DURING NIGHTTIME, OR WHENEVER MORE CONSPICUOUS GUIDANCE IS NEEDED SHALL BE A MINIMUM OF 28 INCHES HIGH.

CONES SHALL BE PREDOMINANTLY ORANGE, WITH WHITE RETROREFLECTIVE SHEETING.

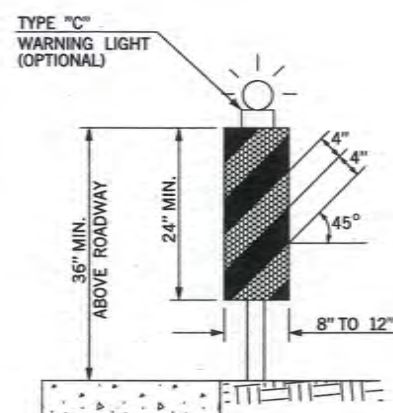


TUBE CHANNELIZER

NOTES:

TUBE CHANNELIZERS USED ON HIGH SPEED ROADWAYS, ON ALL HIGHWAYS DURING NIGHTTIME, OR WHENEVER MORE CONSPICUOUS GUIDANCE IS NEEDED SHALL BE A MINIMUM OF 28 INCHES HIGH.

TUBE CHANNELIZERS SHALL BE PREDOMINANTLY ORANGE, WITH WHITE RETROREFLECTIVE SHEETING.



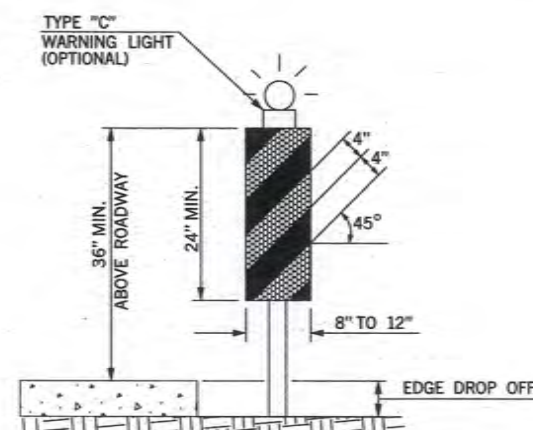
**VERTICAL PANEL
W/O DROP OFF**

NOTES:

PANEL STRIPE WIDTHS SHALL BE 6 INCHES EXCEPT WHERE PANELS LENGTHS ARE LESS THAN 36 INCHES, THEN 4 INCH WIDE STRIPES MAY BE USED.

MARKINGS FOR VERTICAL PANELS SHALL BE ALTERNATING FLUORESCENT ORANGE AND WHITE RETROREFLECTORIZED STRIPES (SLOPING DOWNWARD AT AN ANGLE OF 45 DEGREES IN THE DIRECTION TRAFFIC IS TO PASS).

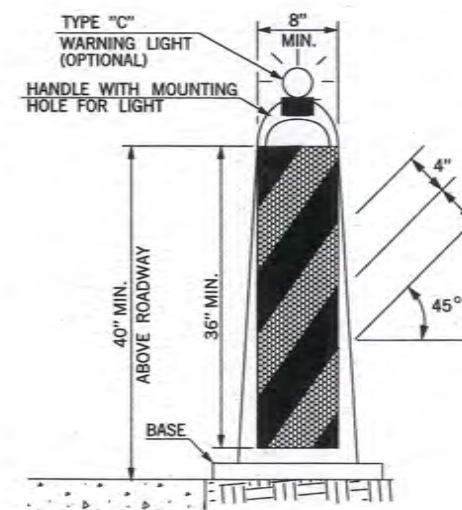
SHALL HAVE A MINIMUM OF TWO (2) FULL FLUORESCENT ORANGE STRIPES.



**VERTICAL PANEL
W/DROP OFF**

ON UNDIVIDED HIGHWAYS, VERTICAL PANELS SHALL HAVE A MINIMUM OF 192 SQUARE INCHES OF RETROREFLECTIVE SHEETING ON EACH PANEL (FRONT AND BACK). WHEN USED ON HIGH SPEED ROADWAYS, VERTICAL PANELS SHALL HAVE MINIMUM OF 270 SQUARE INCHES OF RETROREFLECTIVE SHEETING ON EACH PANEL (FRONT AND BACK). THIS SHALL CONSTITUTE ONE (1) COMPLETE VERTICAL PANEL.

ON DIVIDED HIGHWAYS A VERTICAL PANEL MAY HAVE SHEETING ON ONLY ONE SIDE.



STACKABLE VERTICAL PANEL

NOTES:

- (1) VERTICAL PANEL SIGNS SHALL BE MOUNTED BACK TO BACK WHEN USED FOR TWO-WAY TRAFFIC.
- (2) BASE SHALL BE NO LARGER THAN 28" LONG BY 20" WIDE, AND 2" THICK.
- (3) BASE SHALL WEIGHT 30 LBS. OR MORE.
- (4) THESE DEVICES SHALL BE CONSTRUCTED OF A MATERIAL THAT CAN BE STRUCK WITHOUT DAMAGING VEHICLES ON IMPACT.

KEY:

- FLUORESCENT ORANGE (REFLECTORIZED)
- WHITE (REFLECTORIZED)

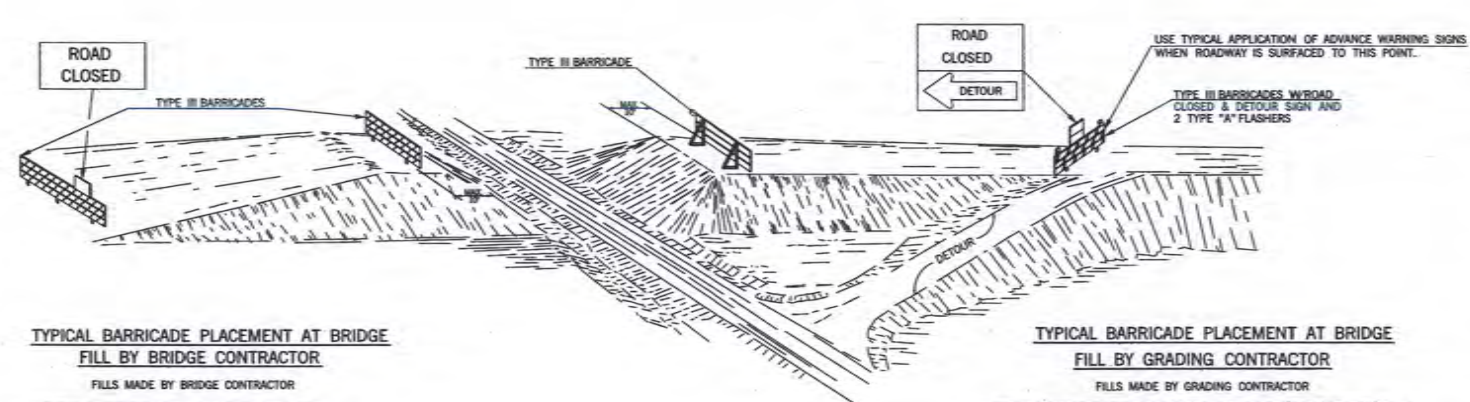
BASIS OF PAYMENT

ITEM NO.	ITEM	UNIT
880(D)	VERTICAL PANEL	SD
880(E)	WARNING LIGHTS	SD
880(F)	DRUMS	SD
880(G)	TUBE CHANNELIZERS	SD
880(H)	CONES	SD
880(I)	CHANNELIZER CONES	SD



APPROVED BY
TRAFFIC ENGINEER: *David Smith* DATE: 3/21/11

TRAFFIC STANDARD
TRAFFIC CONTROL STANDARD
CHANNELIZING DEVICES

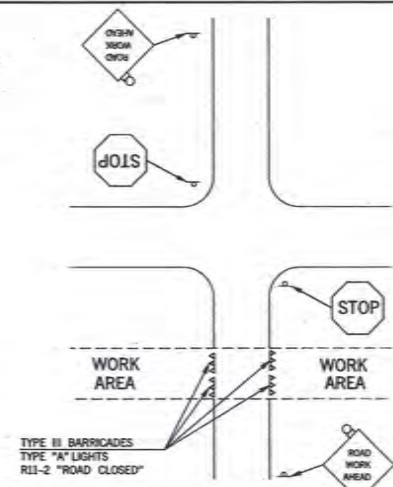


TYPICAL BARRICADE PLACEMENT AT BRIDGE FILL BY BRIDGE CONTRACTOR

- FILLS MADE BY BRIDGE CONTRACTOR**
- (1) THE CONTRACTOR SHALL PLACE AND MAINTAIN THE BARRICADES AS SHOWN UNTIL THEY ARE NO LONGER NEEDED.
 - (2) THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO REMOVAL OF THE BARRICADES.
 - (3) THE ENGINEER SHALL NOTIFY THE GRADING CONTRACTOR TO FURNISH AND ERECT HIS BARRICADES "IMMEDIATELY" AFTER THE BRIDGE CONTRACTOR REMOVES HIS BARRICADES. THE GRADING CONTRACTOR SHALL MAINTAIN HIS BARRICADES UNTIL FINAL INSPECTION OR UNTIL THEY ARE NO LONGER NEEDED.
 - (4) BARRICADES AT BRIDGE FILL SHALL BE IN PLACE AND MAINTAINED AT ALL TIMES UNTIL OPENED TO TRAFFIC. HOWEVER, BARRICADES MAY BE REMOVED OR ADJUSTED, AS NEEDED, TO ALLOW ACCESS TO THE WORK AREA.

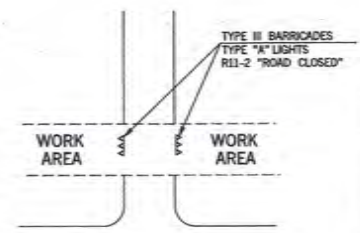
TYPICAL BARRICADE PLACEMENT AT BRIDGE FILL BY GRADING CONTRACTOR

- FILLS MADE BY GRADING CONTRACTOR**
- (1) THE CONTRACTOR SHALL PLACE AND MAINTAIN THE BARRICADES AS SHOWN UNTIL FINAL INSPECTION OR UNTIL THEY ARE NO LONGER NEEDED.
 - (2) THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO REMOVAL OF THE BARRICADES.
 - (3) IF THE BRIDGE WORK ORDER IS ISSUED PRIOR TO COMPLETION OF THE GRADING CONTRACT, THE BRIDGE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE GRADING CONTRACTOR TO ASSUME RESPONSIBILITY FOR PROTECTION OF THE BRIDGE WORK AREA. THIS WILL INCLUDE FURNISHING, INSTALLING, AND MAINTAINING ALL BARRICADES AND SIGNS NECESSARY TO PROVIDE THAT PROTECTION UNTIL THE BRIDGE IS COMPLETED AND THE FINAL INSPECTION IS COMPLETED.
 - (4) IF THE BRIDGE WORK ORDER HAS NOT BEEN ISSUED PRIOR TO THE FINAL INSPECTION OF THE GRADING, THEN THE GRADING CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE OKLAHOMA DEPARTMENT OF TRANSPORTATION FOR STATE FORCES TO SUPPLY, INSTALL AND MAINTAIN ANY NECESSARY TRAFFIC CONTROL DEVICES NEEDED TO PROTECT THE WORK AREA. THESE STATE OWNED DEVICES SHALL REMAIN IN PLACE UNTIL SUCH TIME THAT THE BRIDGE WORK ORDER IS ISSUED. AT THAT TIME THE BRIDGE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR TRAFFIC CONTROL AND REPLACE THE STATE OWNED DEVICES WITH HIS OWN.
 - (5) SUFFICIENT NUMBER OF TYPE II BARRICADES WITH SIGNS SHALL BE USED TO COMPLETELY CLOSE THE WORK AREA TO THROUGH TRAFFIC.
 - (6) BARRICADES AT BRIDGE FILL SHALL BE IN PLACE AND MAINTAINED AT ALL TIMES UNTIL OPENED TO TRAFFIC. HOWEVER, BARRICADES MAY BE REMOVED OR ADJUSTED, AS NEEDED, TO ALLOW ACCESS TO THE WORK AREA.

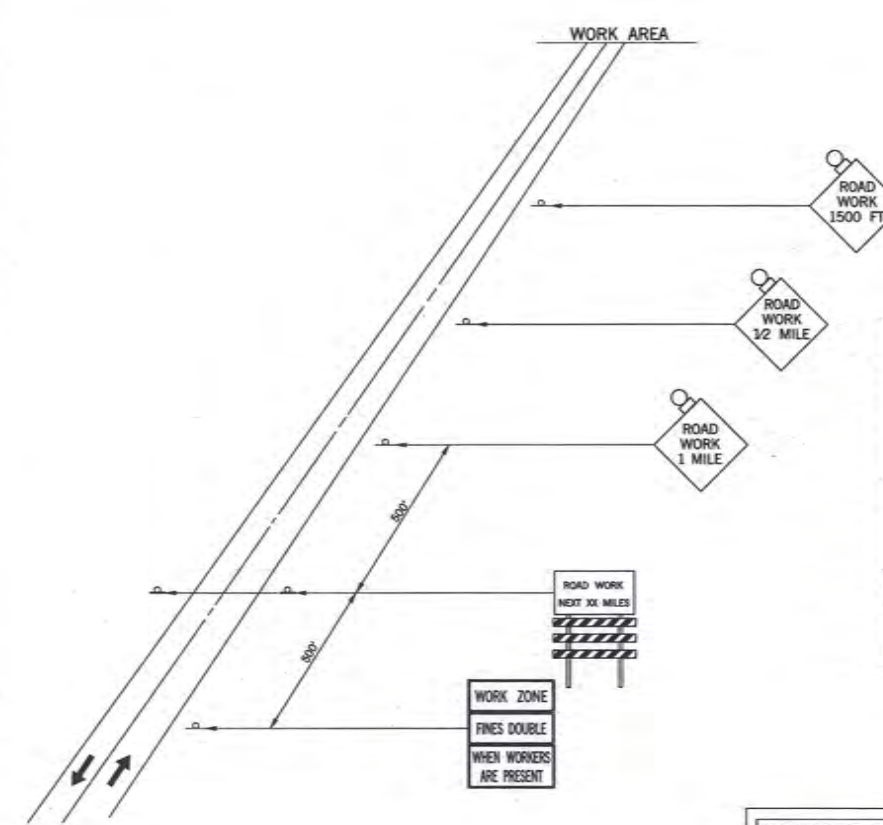


TYPICAL SIGN PLACEMENT FOR INTERSECTING ROADS AND STREETS

- NOTES:**
- (1) SIGNS SHOWN FOR ONE DIRECTION OF TRAVEL ONLY.
 - (2) FLASHING WARNING LIGHTS SHALL BE USED TO CALL ATTENTION TO THE EARLY WARNING SIGNS.
 - (3) WARNING LIGHTS SHOULD BE USED TO MARK CHANNELIZING DEVICES AT NIGHT AS NEEDED.
 - (4) PLACEMENT OF TYPE II BARRICADES SHALL BE APPROVED BY THE ENGINEER.
 - (5) TYPE II BARRICADES, DRUMS AND/OR VERTICAL PANELS MAY BE SUBSTITUTED FOR TYPE III BARRICADES TO AVOID OBSTRUCTING THE MOTORIST'S VIEW.
 - (6) IF TWO OR MORE DRIVEWAYS ARE IN CLOSE PROXIMITY, THE BARRICADES BETWEEN THE DRIVEWAYS MAY BE OMITTED AT THE DISCRETION OF THE ENGINEER.
 - (7) THE "ROAD WORK AHEAD" SIGN, WHICH SERVES AS A GENERAL WARNING OF OBSTRUCTIONS OR RESTRICTIONS, SHALL BE LOCATED ON ALL INTERSECTING ROADS AND STREETS.



TYPICAL SIGN PLACEMENT FOR PRIVATE DRIVE OR RESIDENCE



TYPICAL APPLICATION ADVANCE WARNING SIGNS ON 2-LANE HIGHWAY

TYPICAL CONSTRUCTION WARNING SIGNS WITH MESSAGES OTHER THAN DETAILED ON STANDARD DRAWINGS SHALL BE CONSTRUCTED USING THE LARGEST POSSIBLE LETTER SIZE. SIGN SIZE AND COLOR SHALL BE THE SAME AS OTHER CONSTRUCTION WARNING SIGNS USED FOR SIMILAR CONDITIONS.

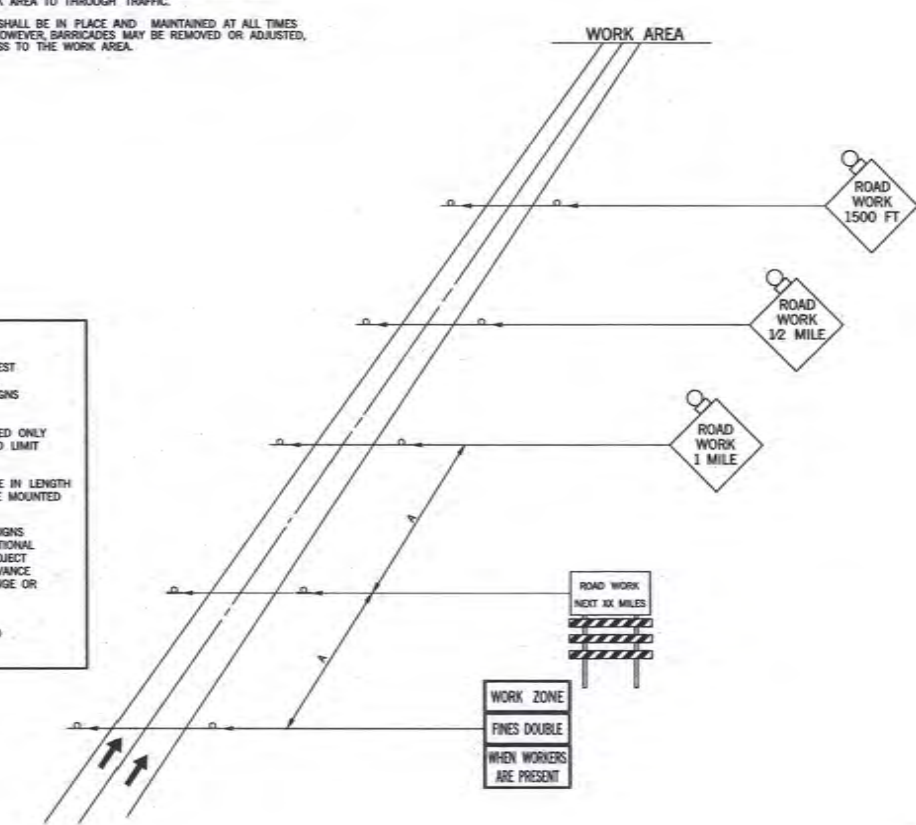
FINES DOUBLE IN WORK ZONE SIGNS ARE TO BE USED ONLY ON STATE OR FEDERAL HIGHWAYS WHERE THE SPEED LIMIT IS REDUCED OR AS DIRECTED BY THE ENGINEER.

PROJECTS WITH WORK LIMITS OF 1.0 MILES OR MORE IN LENGTH WILL REQUIRE THE G20-1A SIGN. THE SIGN SHALL BE MOUNTED AS SHOWN ON TCS4-1 (LATEST REVISION).

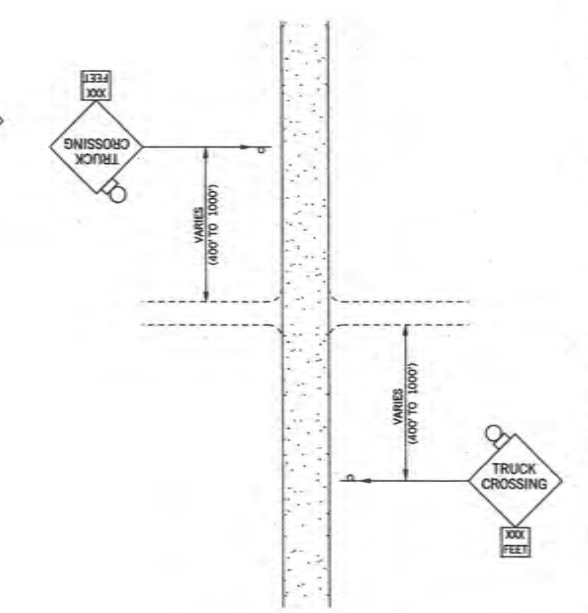
WARNING SIGNS SHOWN ARE "ADVANCE" WARNING SIGNS AND ARE REQUIRED ON ALL STATE HIGHWAYS. ADDITIONAL WARNING SIGNS MAY BE REQUIRED WITHIN THE PROJECT LIMITS TO WARN DRIVERS OF SPECIFIC HAZARDS. ADVANCE "WARNING SIGNS" MAY CHANGE AS CONDITIONS CHANGE OR AS DIRECTED BY THE ENGINEER.

PROJECT WORK OF 1.0 MILE OR MORE IN LENGTH WILL REQUIRE SIGNS CS-14 AND R2-1 TO BE PLACED EVERY 1/2 MILE THROUGH WORK ZONE.

DISTANCE BETWEEN SIGNS SHALL BE A (MIN.)			
ROAD TYPE	A (FT)	B (FT)	C (FT)
URBAN (LOW SPEED)	100	100	100
URBAN (HIGH SPEED)	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1,000	1,500	2,640



TYPICAL APPLICATION ADVANCE WARNING SIGNS ON A DIVIDED HIGHWAY



TYPICAL APPLICATION ADVANCE SIGNING WHERE TRUCKS ARE CROSSING



APPROVED BY
TRAFFIC ENGINEER: *[Signature]* DATE: 3/21/11

TRAFFIC STANDARD
TRAFFIC CONTROL STANDARD
PLACEMENT OF ADVANCE
WARNING SIGNS

2009 SPECIFICATIONS

TCS7-1 01
T-507

TRFPC36 M:2009 Standards TC\508.dgn 8:18:06 AM 6/2/2010 d:\usr2\file\teroyh\pen R:\TRAF PLOT\bw.tbl



STOP

R1-1 30 x 30 5.18 SF
R1-1E 36 x 36 7.46 SF
R1-1F 48 x 48 13.26 SF

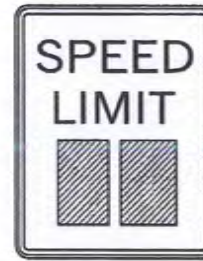
COLOR:
LEGEND AND BORDER:
WHITE (REFLECTORIZED)
BACKGROUND:
RED (TRANSPARENT REFLECTORIZED)



YIELD

R1-2 36 x 36 x 36 3.90 SF
R1-2E 48 x 48 x 48 6.93 SF
R1-2F 60 x 60 x 60 10.83 SF

COLOR:
LEGEND AND BORDER:
RED (TRANSPARENT REFLECTORIZED)
BACKGROUND:
WHITE (REFLECTORIZED)



SPEED LIMIT

R2-1() 24 x 30 5.00 SF
R2-1E() 36 x 48 12.00 SF
R2-1F() 48 x 60 20.00 SF

COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
WHITE (REFLECTORIZED)



NO RIGHT TURN

R3-1 24 x 24 4.00 SF
R3-1E 36 x 36 9.00 SF
R3-1F 48 x 48 16.00 SF

COLOR:
ARROW AND BORDER:
BLACK (NON-REFLECTORIZED)
CIRCLE AND DIAGONAL:
RED (TRANSPARENT REFLECTORIZED)
BACKGROUND:
WHITE (REFLECTORIZED)



NO LEFT TURN

R3-2 24 x 24 4.00 SF
R3-2E 36 x 36 9.00 SF
R3-2F 48 x 48 16.00 SF

COLOR:
ARROW AND BORDER:
BLACK (NON-REFLECTORIZED)
CIRCLE AND DIAGONAL:
RED (TRANSPARENT REFLECTORIZED)
BACKGROUND:
WHITE (REFLECTORIZED)

DESCRIPTION	REVISIONS	DATE



KEEP RIGHT SIGN

R4-7 24 x 30 5.00 SF
R4-7E 36 x 48 12.00 SF
R4-7F 48 x 60 20.00 SF

COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
WHITE (REFLECTORIZED)



KEEP LEFT SIGN

R4-8 24 x 30 5.00 SF
R4-8E 36 x 48 12.00 SF
R4-8F 48 x 60 20.00 SF

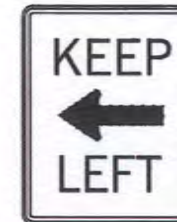
COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
WHITE (REFLECTORIZED)



KEEP RIGHT

R4-7a(R) 24 x 30 5.00 SF
R4-7a(R)E 36 x 48 12.00 SF
R4-7a(R)F 48 x 60 20.00 SF

COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
WHITE (REFLECTORIZED)



KEEP LEFT

R4-7a(L) 24 x 30 5.00 SF
R4-7a(L)E 36 x 48 12.00 SF
R4-7a(L)F 48 x 60 20.00 SF

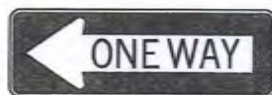
COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
WHITE (REFLECTORIZED)



DO NOT ENTER

R5-1 30 x 30 6.25 SF
R5-1E 36 x 36 9.00 SF
R5-1F 48 x 48 16.00 SF

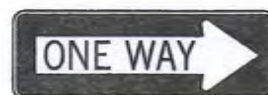
COLOR:
SYMBOL: :
RED (TRANSPARENT REFLECTORIZED)
LEGEND AND BACKGROUND: :
WHITE (REFLECTORIZED)



ONE WAY

R6-1(L) 36 x 12 3.00 SF
R6-1E(L) 54 x 18 6.75 SF
R6-1F(L) 54 x 18 6.75 SF

COLOR:
ARROW AND BORDER:
WHITE (NON-REFLECTORIZED)
LEGEND AND BACKGROUND:
BLACK (REFLECTORIZED)



ONE WAY

R6-1(R) 36 x 12 3.00 SF
R6-1E(R) 54 x 18 6.75 SF
R6-1F(R) 54 x 18 6.75 SF

COLOR:
ARROW AND BORDER:
WHITE (NON-REFLECTORIZED)
LEGEND AND BACKGROUND:
BLACK (REFLECTORIZED)



STOP HERE ON RED

R10-6 24 x 36 6.00 SF

COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
WHITE (REFLECTORIZED)

NOTES:
WORD SIGNS MAY BE USED IF SYMBOL SIGNS ARE NOT
AVAILABLE EITHER IN "STANDARD HIGHWAY SIGNS MANUAL" OR
IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES"
(MUTCD) (CURRENT EDITION).

BASIS OF PAYMENT

ITEM NO.	ITEM	UNIT
880(B)	CONSTRUCTION SIGNS	SD



APPROVED BY
TRAFFIC ENGINEER *Charles J. Smith* DATE 6/23/10

TRAFFIC STANDARD

TRAFFIC CONTROL STANDARD
CONSTRUCTION SIGNS

2009 SPECIFICATIONS

TCS8-1

00

T-508



ROAD CLOSED

R11-2 48 x 30 10.00 SF

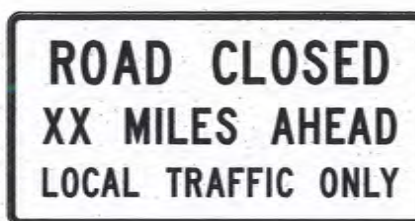
COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
WHITE (REFLECTORIZED)



LANE CLOSED

R11-2(LANE) 48 x 30 10.00 SF

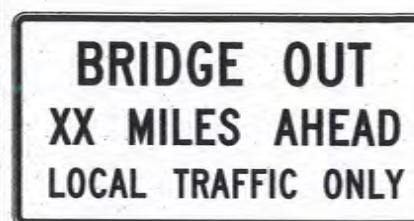
COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
WHITE (REFLECTORIZED)



ROAD CLOSED XX MILES AHEAD

R11-3a 60 x 30 12.50 SF

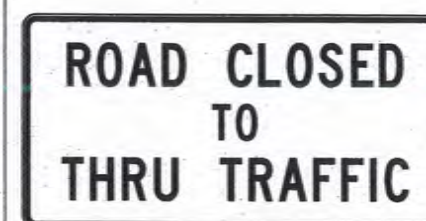
COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
WHITE (REFLECTORIZED)



BRIDGE OUT XX MILES AHEAD

R11-3b 60 x 30 12.50 SF

COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
WHITE (REFLECTORIZED)



ROAD CLOSED TO THRU TRAFFIC

R11-4 60 x 30 12.50 SF

COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
WHITE (REFLECTORIZED)



DETOUR SIGN

M4-8 24 x 12 2.00 SF
M4-8E 30 x 15 3.13 SF

COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE
(REFLECTORIZED)



DETOUR SIGN

M4-9(R) 30 x 24 5.00 SF
M4-9(R)E 48 x 36 12.00 SF
M4-9(R)F 60 x 48 20.00 SF

COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE
(REFLECTORIZED)



DETOUR SIGN

M4-9(L) 30 x 24 5.00 SF
M4-9(L)E 48 x 36 12.00 SF
M4-9(L)F 60 x 48 20.00 SF

COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE
(REFLECTORIZED)



DETOUR SIGN

M4-9(V) 30 x 24 5.00 SF
M4-9(V)E 48 x 36 12.00 SF
M4-9(V)F 60 x 48 20.00 SF

COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE
(REFLECTORIZED)



DETOUR SIGN

M4-10(R) 48 x 18 6.00 SF

COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE
(REFLECTORIZED)



DETOUR SIGN

M4-10(L) 48 x 18 6.00 SF

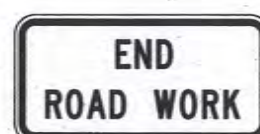
COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE
(REFLECTORIZED)



ROAD WORK NEXT XX MILES SIGN

G20-1A 36 x 18 4.50 SF

COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE
(REFLECTORIZED)



END ROAD WORK SIGN

G20-2A 36 x 18 4.50 SF

COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE
(REFLECTORIZED)



PILOT CAR FOLLOW ME SIGN

G20-4 36 x 18 4.50 SF

COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE
(REFLECTORIZED)

NOTES:
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ALL DIAMOND SHAPE CONSTRUCTION WARNING SIGNS SHALL BE 48 INCHES X 48 INCHES UNLESS OTHERWISE NOTED IN THE PLANS.

BASIS OF PAYMENT

ITEM NO.	ITEM	UNIT
880(B)	CONSTRUCTION SIGNS	SD



APPROVED BY
TRAFFIC ENGINEER: *David Gandy* DATE: 3/21/11

TRAFFIC STANDARD
TRAFFIC CONTROL STANDARD
CONSTRUCTION SIGNS

2009 SPECIFICATIONS

TCS9-1 01
T-509

TRFPC36.M:\2009 Standards TC\1510.dgn 8:18:46 AM 6/2/2010 d:\usr2\lib\erophy.psn R:\TRAF PLOT\bw.tbl



TURN LEFT

W1-1(L) 48 x 48 16.00 SF

COLOR:
SYMBOL AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE
(REFLECTORIZED)



TURN RIGHT

W1-1(R) 48 x 48 16.00 SF

COLOR:
SYMBOL AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE
(REFLECTORIZED)



CURVE LEFT

W1-2(L) 48 x 48 16.00 SF

COLOR:
SYMBOL AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE
(REFLECTORIZED)



CURVE RIGHT

W1-2(R) 48 x 48 16.00 SF

COLOR:
SYMBOL AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE
(REFLECTORIZED)



LEFT REVERSE TURN

W1-3(L) 48 x 48 16.00 SF

COLOR:
SYMBOL AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE
(REFLECTORIZED)



RIGHT REVERSE TURN

W1-3(R) 48 x 48 16.00 SF

COLOR:
SYMBOL AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE
(REFLECTORIZED)



LEFT REVERSE CURVE

W1-4(L) 48 x 48 16.00 SF

COLOR:
SYMBOL AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE
(REFLECTORIZED)



RIGHT REVERSE CURVE

W1-4(R) 48 x 48 16.00 SF

COLOR:
SYMBOL AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE
(REFLECTORIZED)



LEFT REVERSE CURVE

W1-4B(L) 48 x 48 16.00 SF

COLOR:
SYMBOL AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE
(REFLECTORIZED)



RIGHT REVERSE CURVE

W1-4B(R) 48 x 48 16.00 SF

COLOR:
SYMBOL AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE
(REFLECTORIZED)



LEFT REVERSE CURVE

W1-4C(L) 48 x 48 16.00 SF

COLOR:
SYMBOL AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE
(REFLECTORIZED)



RIGHT REVERSE CURVE

W1-4C(R) 48 x 48 16.00 SF

COLOR:
SYMBOL AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE
(REFLECTORIZED)



ARROW

W1-6 48 x 24 8.00 SF
W1-6E 60 x 30 12.50 SF

COLOR:
SYMBOL AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE
(REFLECTORIZED)



DOUBLE ARROW

W1-7 48 x 24 8.00 SF
W1-7E 60 x 30 12.50 SF

COLOR:
SYMBOL AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE
(REFLECTORIZED)

DESCRIPTION	REVISIONS	DATE

NOTES:
WORD SIGNS MAY BE USED IF SYMBOL SIGNS ARE NOT AVAILABLE EITHER IN "STANDARD HIGHWAY SIGNS MANUAL" OR IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) (CURRENT EDITION).

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* SUPPLEMENTAL SIGNS SHALL ONLY BE USED IN CONJUNCTION WITH DIAMOND SHAPE CONSTRUCTION WARNING SIGNS. THE SIZE OF SUPPLEMENTAL SIGNS SHALL BE APPROPRIATE FOR USE WITH A 48 INCH X 48 INCH WARNING SIGN UNLESS OTHERWISE NOTED IN THE PLANS.

BASIS OF PAYMENT

ITEM NO.	ITEM	UNIT
880(B)	CONSTRUCTION SIGNS	SD



APPROVED BY
TRAFFIC ENGINEER *David Smith* DATE: 6/23/10

TRAFFIC STANDARD

TRAFFIC CONTROL STANDARD
CONSTRUCTION SIGNS

2009 SPECIFICATIONS

TCS10-1 00
T-510

TRFPC36 U:\Traffic\TRAFFIC STD CURRENT\2009\DRAWINGS\TCS11-1-01 1511.dgn 10:38:39 AM 7/19/2010 R:\TRAFFIC PLOT\TrafPlot.bw.tbl



CHEVRON

W1-8 18 x 24 3.00 SF
W1-8E 30 x 36 7.50 SF
W1-8F 36 x 48 12.00 SF

COLOR:
SYMBOL AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE (REFLECTORIZED)



STOP AHEAD

W3-1 48 x 48 16.00 SF

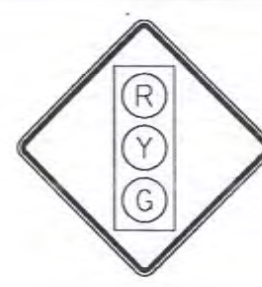
COLOR:
BORDER AND ARROW:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE (REFLECTORIZED)
SYMBOL:
WHITE BORDER ON RED BACKGROUND (REFLECTORIZED)



YIELD AHEAD

W3-2 48 x 48 16.00 SF

COLOR:
BORDER AND ARROW:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE (REFLECTORIZED)
SYMBOL:
WHITE BORDER ON RED BACKGROUND (REFLECTORIZED)



SIGNAL AHEAD

W3-3 48 x 48 16.00 SF

COLOR:
SYMBOL AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE (REFLECTORIZED)
R = RED (REFLECTORIZED)
Y = YELLOW (REFLECTORIZED)
G = GREEN (REFLECTORIZED)



BE PREPARED TO STOP SIGN

W3-4 48 x 48 16.00 SF
COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE (REFLECTORIZED)



SPEED REDUCTION

W3-5 48 x 48 16.00 SF

COLOR:
BORDER AND ARROW:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE (REFLECTORIZED)
SYMBOL:
BLACK BORDER AND TEXT ON
WHITE BACKGROUND (REFLECTORIZED)



LEFT LANE ENDS

W4-2(L) 48 x 48 16.00 SF

COLOR:
SYMBOL AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE (REFLECTORIZED)



RIGHT LANE ENDS

W4-2(R) 48 x 48 16.00 SF

COLOR:
SYMBOL AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE (REFLECTORIZED)



ROAD NARROWS

W5-1 48 x 48 16.00 SF

COLOR:
SYMBOL AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE (REFLECTORIZED)



NARROW BRIDGE

W5-2 48 x 48 16.00 SF

COLOR:
SYMBOL AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE (REFLECTORIZED)

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ONE LANE BRIDGE

W5-3 48 x 48 16.00 SF

COLOR:
SYMBOL AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE (REFLECTORIZED)



DIVIDED HIGHWAY

W6-1 48 x 48 16.00 SF

COLOR:
SYMBOL AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE (REFLECTORIZED)



DIVIDED HIGHWAY

W6-2 48 x 48 16.00 SF

COLOR:
SYMBOL AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE (REFLECTORIZED)



TWO WAY TRAFFIC SIGN

W6-3 48 x 48 16.00 SF

COLOR:
SYMBOL AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE (REFLECTORIZED)

BASIS OF PAYMENT		
ITEM NO.	ITEM	UNIT
880(B)	CONSTRUCTION SIGNS	SD



APPROVED BY
TRAFFIC ENGINEER: *David Smith* DATE: 8/6/10

TRAFFIC STANDARD

TRAFFIC CONTROL STANDARD
CONSTRUCTION SIGNS

2009 SPECIFICATIONS

TCS11-1 01
T-511

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LOW SHOULDER SIGN

W8-9 48 x 48 16.00 SF

COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE (REFLECTORIZED)



UNEVEN LANES SIGN

W8-11 48 x 48 16.00 SF

COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE (REFLECTORIZED)



NO CENTER LINE SIGN

W8-12 48 x 48 16.00 SF

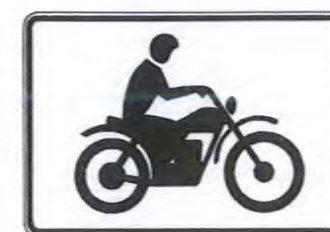
COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE (REFLECTORIZED)



GROOVED PAVEMENT SIGN

W8-15 48 x 48 16.00 SF

COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE (REFLECTORIZED)



MOTORCYCLE (PLAQUE) *

W8-15P 18 x 36 4.50 SF

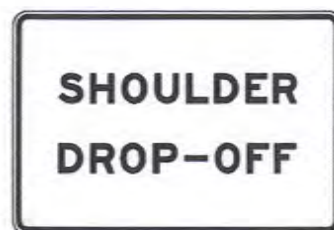
COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE (REFLECTORIZED)



SHOULDER DROP-OFF (SYMBOL)

W8-17 48 x 48 16.00 SF

COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE (REFLECTORIZED)



SHOULDER DROP-OFF (PLAQUE) *

W8-17P 18 x 36 4.50 SF

COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE (REFLECTORIZED)



LANE ENDS MERGE LEFT SIGN

W9-2(L) 48 x 48 16.00 SF

COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE (REFLECTORIZED)



LANE ENDS MERGE RIGHT SIGN

W9-2(R) 48 x 48 16.00 SF

COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE (REFLECTORIZED)



TRUCK CROSSING SIGN

W11-10 48 x 48 16.00 SF

COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE (REFLECTORIZED)



DOUBLE ARROW SIGN

W12-1 48 x 48 16.00 SF

COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE (REFLECTORIZED)



CLEARANCE SIGN

W12-2 48 x 48 16.00 SF

COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE (REFLECTORIZED)



ADVISORY SPEED SIGN *

W13-1P 18 x 18 2.25 SF
W13-1PE 24 x 24 4.00 SF

COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE (REFLECTORIZED)



XX FEET SIGN *

W16-2P 24 x 18 3.00 SF
W16-2PE 30 x 24 5.00 SF

COLOR:
LEGEND AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
FLUORESCENT ORANGE (REFLECTORIZED)

DESCRIPTION	REVISIONS	DATE
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NOTES:
WORD SIGNS MAY BE USED IF SYMBOL SIGNS ARE NOT AVAILABLE EITHER IN "STANDARD HIGHWAY SIGNS MANUAL" OR IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) (CURRENT EDITION).

ALL DIAMOND SHAPE CONSTRUCTION WARNING SIGNS SHALL BE 48 INCHES X 48 INCHES UNLESS OTHERWISE NOTED IN THE PLANS.

* SUPPLEMENTAL SIGNS SHALL ONLY BE USED IN CONJUNCTION WITH DIAMOND SHAPE CONSTRUCTION WARNING SIGNS. THE SIZE OF SUPPLEMENTAL SIGNS SHALL BE APPROPRIATE FOR USE WITH A 48 INCH X 48 INCH WARNING SIGN UNLESS OTHERWISE NOTED IN THE PLANS.

BASIS OF PAYMENT

ITEM NO.	ITEM	UNIT
680(B)	CONSTRUCTION SIGNS	SD



APPROVED BY
TRAFFIC ENGINEER *David G. Smith* DATE *6/23/10*

TRAFFIC STANDARD

TRAFFIC CONTROL STANDARD
CONSTRUCTION SIGNS

2009 SPECIFICATIONS

TCS13-1	00
T-513	

ROAD WORK SIGN W20-1 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)		DETOUR SIGN W20-2 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)		ROAD CLOSED SIGN W20-3 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)		STREET CLOSED SIGN W20-3A 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)		ONE LANE ROAD SIGN W20-4 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	
LEFT LANE CLOSED SIGN W20-5(L) 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)		RIGHT LANE CLOSED SIGN W20-5(R) 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)		FLAGGER SIGN W20-7 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)		FLAGGER SIGN W20-7a 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)		WORKERS SIGN W21-1 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	
FRESH OIL SIGN W21-2 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)		ROAD MACHINERY AHEAD SIGN W21-3 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)		NOTES: WORD SIGNS MAY BE USED IF SYMBOL SIGNS ARE NOT AVAILABLE EITHER IN "STANDARD HIGHWAY SIGNS MANUAL" OR IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) (CURRENT EDITION). ALL DIAMOND SHAPE CONSTRUCTION WARNING SIGNS SHALL BE 48 INCHES X 48 INCHES UNLESS OTHERWISE NOTED IN THE PLANS. * SUPPLEMENTAL SIGNS SHALL ONLY BE USED IN CONJUNCTION WITH DIAMOND SHAPE CONSTRUCTION WARNING SIGNS. THE SIZE OF SUPPLEMENTAL SIGNS SHALL BE APPROPRIATE FOR USE WITH A 48 INCH x 48 INCH WARNING SIGN UNLESS OTHERWISE NOTED IN THE PLANS.					

DESCRIPTION

REVISIONS

DATE

ITEM NO.

ITEM

UNIT

880(B)

CONSTRUCTION SIGNS

SD

APPROVED BY

TRAFFIC ENGINEER

DATE

5/23/10

TRAFFIC STANDARD

TRAFFIC CONTROL STANDARD

CONSTRUCTION SIGNS

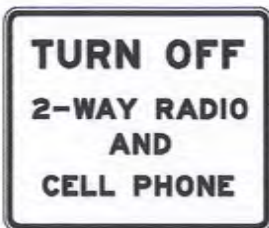
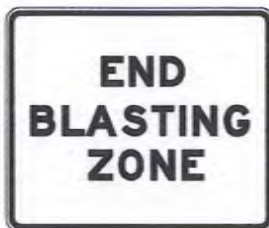
2009 SPECIFICATIONS

TCS14-1

00

T-514

T:\TRF36 MI\2009 Standards TC\1515.dgn 8:20:40 AM 6/2/2010 d:\usr2\lib\eroh\pen R:\TRAF PLOT\bw.tbl

 SHOULDER WORK SIGN W21-5 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 SURVEY CREW SIGN W21-6 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 UTILITY WORK AHEAD SIGN W21-7 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 MOWING AHEAD SIGN W21-8 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 BRIDGE REPAIR SIGN W21-9 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	<table><tr><th>DESCRIPTION</th><th>REVISIONS</th><th>DATE</th></tr><tr><td colspan="3"></td></tr></table>	DESCRIPTION	REVISIONS	DATE						
DESCRIPTION	REVISIONS	DATE												
 MATERIAL ON SHOULDER SIGN W21-10 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 MATERIAL ON ROADWAY SIGN W21-11 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 BLASTING ZONE AHEAD SIGN W22-1 48 x 48 16.00 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 CELL TELEPHONES SIGN W22-2 36 x 30 7.50 SF W22-2E 42 x 36 10.50 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	 END BLASTING ZONE SIGN W22-3 36 x 30 7.50 SF W22-3E 42 x 36 10.50 SF COLOR: LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)	NOTES: WORD SIGNS MAY BE USED IF SYMBOL SIGNS ARE NOT AVAILABLE EITHER IN "STANDARD HIGHWAY SIGNS MANUAL" OR IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) (CURRENT EDITION). ALL DIAMOND SHAPE CONSTRUCTION WARNING SIGNS SHALL BE 48 INCHES X 48 INCHES UNLESS OTHERWISE NOTED IN THE PLANS. * SUPPLEMENTAL SIGNS SHALL ONLY BE USED IN CONJUNCTION WITH DIAMOND SHAPE CONSTRUCTION WARNING SIGNS. THE SIZE OF SUPPLEMENTAL SIGNS SHALL BE APPROPRIATE FOR USE WITH A 48 INCH X 48 INCH WARNING SIGN UNLESS OTHERWISE NOTED IN THE PLANS.									
<table><tr><th colspan="3">BASIS OF PAYMENT</th></tr><tr><th>ITEM NO.</th><th>ITEM</th><th>UNIT</th></tr><tr><td>880(B)</td><td>CONSTRUCTION SIGNS</td><td>SD</td></tr></table>  APPROVED BY TRAFFIC ENGINEER <i>Charles J. Smith</i> DATE: <i>6/23/10</i> TRAFFIC STANDARD TRAFFIC CONTROL STANDARD CONSTRUCTION SIGNS 2009 SPECIFICATIONS TCS15-100 T-515						BASIS OF PAYMENT			ITEM NO.	ITEM	UNIT	880(B)	CONSTRUCTION SIGNS	SD
BASIS OF PAYMENT														
ITEM NO.	ITEM	UNIT												
880(B)	CONSTRUCTION SIGNS	SD												

DESCRIPTION	REVISIONS	DATE
CHANGED DESCRIPTIONS		3/15/2011



Dimensions are in Inches, tenths

SIGN NUMBER	CS-13
WIDTH x HGT.	2'-0" x 1'-0"
BORDER WIDTH	0.63"
CORNER RADIUS	1.5"
MOUNTING	Ground
SIGN AREA	2.0 Sq.Ft.
BACKGROUND	TYPE: Reflective
	COLOR: FLO*
LEGEND/BORDER	TYPE: Non-Reflective
	COLOR: Black

LETTER POSITIONS (X)	LENGTH	SERIES/SIZE
B E G I N		D 2000
4.8 8.2 11.3 14.9 16.5		14.4



Dimensions are in Inches, tenths

SIGN NUMBER	CS-13E
WIDTH x HGT.	3'-0" x 1'-0"
BORDER WIDTH	0.63"
CORNER RADIUS	1.5"
MOUNTING	Ground
SIGN AREA	3.0 Sq.Ft.
BACKGROUND	TYPE: Reflective
	COLOR: FLO*
LEGEND/BORDER	TYPE: Non-Reflective
	COLOR: Black

LETTER POSITIONS (X)	LENGTH	SERIES/SIZE
B E G I N		D 2000
7.2 12.3 16.9 22.3 24.7		21.6

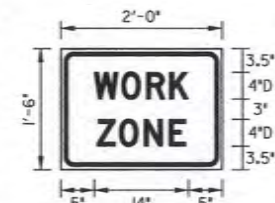


Dimensions are in Inches, tenths

SIGN NUMBER	CS-13F
WIDTH x HGT.	4'-0" x 1'-6"
BORDER WIDTH	0.63"
CORNER RADIUS	1.5"
MOUNTING	Ground
SIGN AREA	6.0 Sq.Ft.
BACKGROUND	TYPE: Reflective
	COLOR: FLO*
LEGEND/BORDER	TYPE: Non-Reflective
	COLOR: Black

LETTER POSITIONS (X)	LENGTH	SERIES/SIZE
B E G I N		E 2000
7.1 15.2 22.6 30.9 34.4		33.8

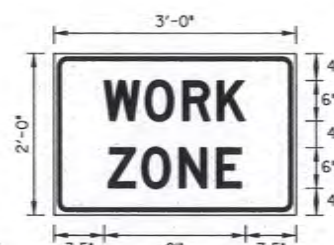
FLO* = FLUORESCENT ORANGE



Dimensions are in Inches, tenths

SIGN NUMBER	CS-14
WIDTH x HGT.	2'-0" x 1'-6"
BORDER WIDTH	0.63"
CORNER RADIUS	1.5"
MOUNTING	Ground
SIGN AREA	3.0 Sq.Ft.
BACKGROUND	TYPE: Reflective
	COLOR: FLO*
LEGEND/BORDER	TYPE: Non-Reflective
	COLOR: Black

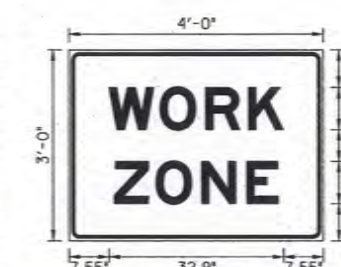
LETTER POSITIONS (X)	LENGTH	SERIES/SIZE
W O R K		D 2000
5 9.1 12.8 16.2		14
Z O N E		D 2000
5.4 8.7 12.5 16.1		13.2



Dimensions are in Inches, tenths

SIGN NUMBER	CS-14E
WIDTH x HGT.	3'-0" x 2'-0"
BORDER WIDTH	0.63"
CORNER RADIUS	1.5"
MOUNTING	Ground
SIGN AREA	6.0 Sq.Ft.
BACKGROUND	TYPE: Reflective
	COLOR: FLO*
LEGEND/BORDER	TYPE: Non-Reflective
	COLOR: Black

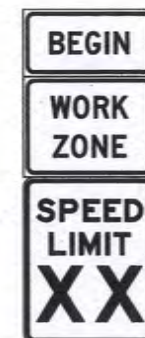
LETTER POSITIONS (X)	LENGTH	SERIES/SIZE
W O R K		D 2000
7.5 13.6 19.2 24.3		21
Z O N E		D 2000
8.1 13.1 18.7 24.2		19.8



Dimensions are in Inches, tenths

SIGN NUMBER	CS-14F
WIDTH x HGT.	4'-0" x 3'-0"
BORDER WIDTH	0.63"
CORNER RADIUS	1.5"
MOUNTING	Ground
SIGN AREA	12.0 Sq.Ft.
BACKGROUND	TYPE: Reflective
	COLOR: FLO*
LEGEND/BORDER	TYPE: Non-Reflective
	COLOR: Black

LETTER POSITIONS (X)	LENGTH	SERIES/SIZE
W O R K		E 2000
7.6 17.2 25.7 33.8		32.9
Z O N E		E 2000
8.5 16.4 24.9 33.5		31

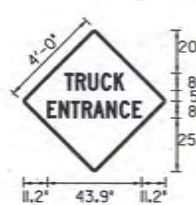


CS-13, E, F

CS-14, E, F

R2-1, E, F

CONSTRUCTION
BEGIN WORK ZONE
SPEED LIMIT
ASSEMBLY

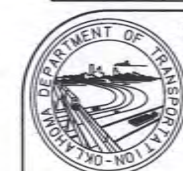


Dimensions are in Inches, tenths

SIGN NUMBER	CS-15
WIDTH x HGT.	4'-0" x 4'-0"
BORDER WIDTH	0.75"
CORNER RADIUS	1.38"
MOUNTING	Ground
SIGN AREA	16.0 Sq.Ft.
BACKGROUND	TYPE: Reflective
	COLOR: Yellow
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black

LETTER POSITIONS (X)	LENGTH	SERIES/SIZE
T R U C K		C 2000
19.3 24.5 30.4 36.5 42.5		27.7
E N T R A N C E		C 2000
11.2 16.7 22.3 27.5 32.7 38.9 45 51.1		43.9

BASIS OF PAYMENT		
ITEM NO.	ITEM	UNIT
880(B)	CONSTRUCTION SIGNS	SD



APPROVED BY
TRAFFIC ENGINEER: *[Signature]* DATE: 3/21/11

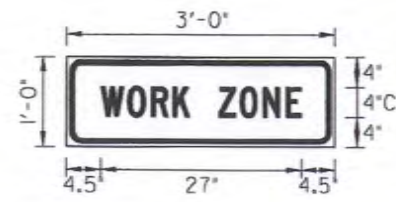
TRAFFIC STANDARD
TRAFFIC CONTROL STANDARD
CONSTRUCTION SIGNS

2009 SPECIFICATIONS

TCS19-1 01
T-519

\$\$\$done\$\$\$

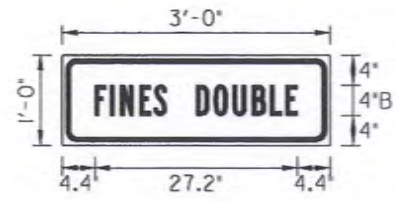
DESCRIPTION	REVISIONS	DATE
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Dimensions are in inches, tenths

SIGN NUMBER	CS-16
WIDTH x HIGHT.	3'-0" x 1'-0"
BORDER WIDTH	0.63"
CORNER RADIUS	1.5"
MOUNTING	Ground
SIGN AREA	3.0 Sq.Ft.
BACKGROUND	TYPE: Reflective COLOR: Orange
LEGEND/BORDER	TYPE: Non-Reflective COLOR: Black

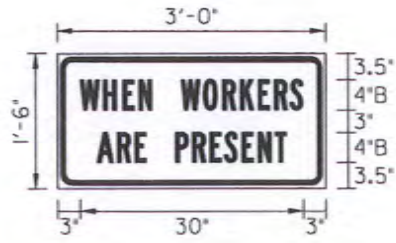
LETTER POSITIONS (X)										LENGTH	SERIESIZE
W	O	R	K	Z	O	N	E			C 2000	
4.5	8	11.2	14.1	20.3	23.2	26.3	29.5			27	



Dimensions are in inches, tenths

SIGN NUMBER	CS-17
WIDTH x HIGHT.	3'-0" x 1'-0"
BORDER WIDTH	0.63"
CORNER RADIUS	1.5"
MOUNTING	Ground
SIGN AREA	3.0 Sq.Ft.
BACKGROUND	TYPE: Reflective COLOR: White
LEGEND/BORDER	TYPE: Non-Reflective COLOR: Black

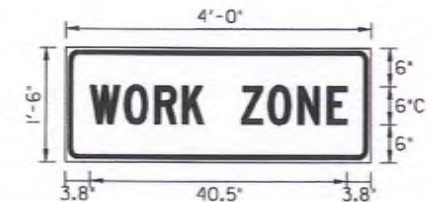
LETTER POSITIONS (X)										LENGTH	SERIESIZE
F	I	N	E	S	D	O	U	B	L	E	B 2000
4.4	6.5	7.9	10.5	12.4	18.1	20.5	23.1	25.7	28	30.1	27.2



Dimensions are in inches, tenths

SIGN NUMBER	CS-18
WIDTH x HIGHT.	3'-0" x 1'-6"
BORDER WIDTH	0.63"
CORNER RADIUS	1.5"
MOUNTING	Ground
SIGN AREA	4.5 Sq.Ft.
BACKGROUND	TYPE: Reflective COLOR: White
LEGEND/BORDER	TYPE: Non-Reflective COLOR: Black

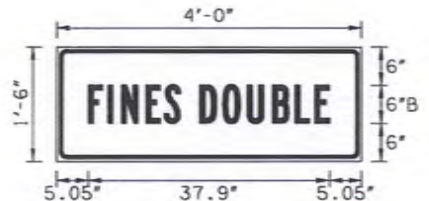
LETTER POSITIONS (X)										LENGTH	SERIESIZE
W	H	E	N	A	R	E	S	T		B 2000	
3	6.1	8.7	10.9	5.3	18.1	20.5	22.4	26.9	31.3	30	



Dimensions are in inches, tenths

SIGN NUMBER	CS-16E
WIDTH x HIGHT.	4'-0" x 1'-6"
BORDER WIDTH	0.63"
CORNER RADIUS	1.5"
MOUNTING	Ground
SIGN AREA	6.0 Sq.Ft.
BACKGROUND	TYPE: Reflective COLOR: Orange
LEGEND/BORDER	TYPE: Non-Reflective COLOR: Black

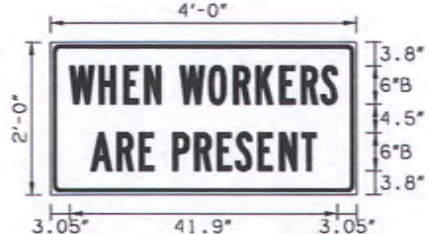
LETTER POSITIONS (X)										LENGTH	SERIESIZE
W	O	R	K	Z	O	N	E			C 2000	
3.8	9	13.8	18.2	27.5	31.8	36.5	41.2			40.5	



Dimensions are in inches, tenths

SIGN NUMBER	CS-17E
WIDTH x HIGHT.	4'-0" x 1'-6"
BORDER WIDTH	0.63"
CORNER RADIUS	1.5"
MOUNTING	Ground
SIGN AREA	6.0 Sq.Ft.
BACKGROUND	TYPE: Reflective COLOR: White
LEGEND/BORDER	TYPE: Non-Reflective COLOR: Black

LETTER POSITIONS (X)										LENGTH	SERIESIZE
F	I	N	E	S	D	O	U	B	L	E	B 2000
5.1	8.2	10.3	14.2	17.1	22.7	26.2	30.1	34	37.5	40.7	37.9



Dimensions are in inches, tenths

SIGN NUMBER	CS-18E
WIDTH x HIGHT.	4'-0" x 2'-0"
BORDER WIDTH	0.63"
CORNER RADIUS	1.13"
MOUNTING	Ground
SIGN AREA	8.0 Sq.Ft.
BACKGROUND	TYPE: Reflective COLOR: White
LEGEND/BORDER	TYPE: Non-Reflective COLOR: Black

LETTER POSITIONS (X)										LENGTH	SERIESIZE
W	H	E	N	A	R	E	S	T		B 2000	
3	7.7	11.6	14.9	6.4	22.7	26.3	29.1	35.9	41.9	41.9	



CONSTRUCTION
FINES DOUBLE
ASSEMBLY

BASIS OF PAYMENT		
ITEM NO.	ITEM	UNIT
880(B)	CONSTRUCTION SIGNS	SD

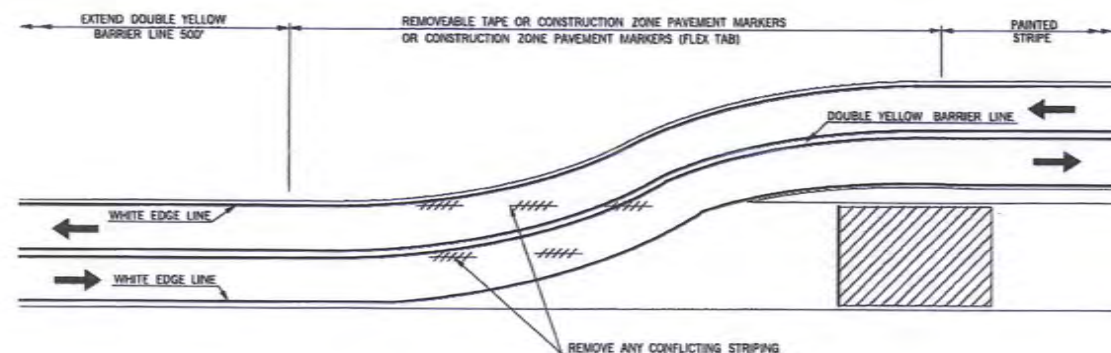


APPROVED BY
TRAFFIC ENGINEER *David J. Smith* DATE 5/23/10

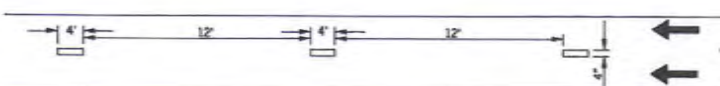
TRAFFIC STANDARD
TRAFFIC CONTROL STANDARD
CONSTRUCTION SIGNS

2009 SPECIFICATIONS

TCS20-1 00
T-520

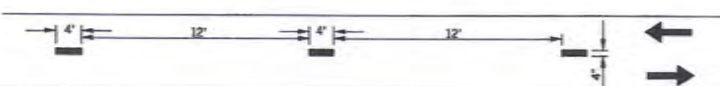


CONSTRUCTION ZONE PAVEMENT MARKINGS THRU SHOO-FLY

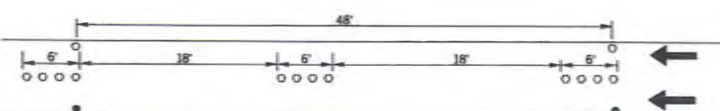


ONE-WAY PAVEMENT MARKING
REMOVEABLE TAPE OR PAINT

PAVEMENT MARKINGS: REMOVEABLE TAPE OR PAINT
WIDTH OF STRIPED LANE LINES SHALL BE A MINIMUM OF 4".
SHORT-TIME PAVEMENT MARKINGS ARE THOSE THAT MAY BE USED UNTIL THE EARLIEST DATE WHEN IT IS PRACTICAL AND POSSIBLE TO INSTALL PERMANENT PAVEMENT MARKINGS THAT MEET THE FULL OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARDS FOR PAVEMENT MARKINGS.

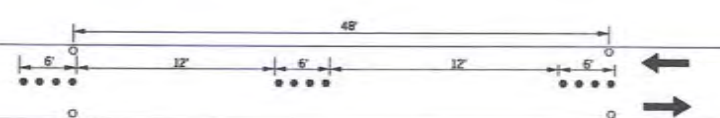


TWO-WAY PAVEMENT MARKING
REMOVEABLE TAPE OR PAINT



ONE-WAY PAVEMENT MARKING
FLEX TABS

PAVEMENT MARKINGS: FLEX TABS
TYPE I - FLEX TAB MARKERS SHALL HAVE REFLECTORIZED MATERIAL ON BOTH SIDES.
TYPE II - FLEX TAB MARKERS SHALL HAVE REFLECTORIZED MATERIAL ON BOTH SIDES AND SHALL HAVE A CLEAR REMOVEABLE COVER.
FLEX TABS MAY BE INSTALLED AS SHOWN FOR INTERIM PAVEMENT MARKINGS



TWO-WAY PAVEMENT MARKING
FLEX TABS

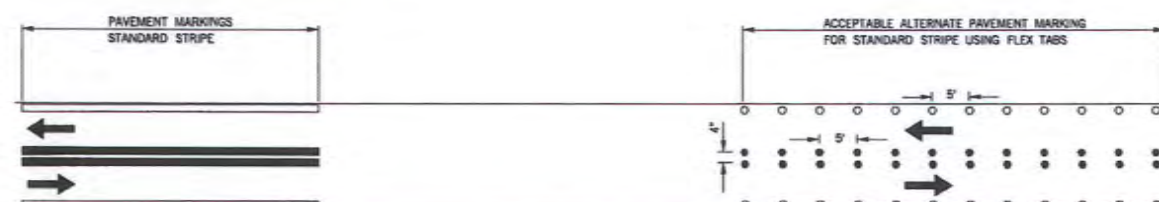
SHORT TIME PAVEMENT MARKINGS



TYPICAL PAVEMENT MARKINGS FOR ONE LANE CLOSURE ON TWO LANE /TWO WAY ROADWAY
REMOVEABLE TAPE OR CONSTRUCTION ZONE PAVEMENT MARKERS (FLEX TAB)

NOTES:
CONSTRUCTION ZONE PAVEMENT MARKINGS SHALL CONSIST OF EITHER PAINT, CONSTRUCTION ZONE PAVEMENT MARKERS (FLEX TABS) OR REMOVEABLE MARKING TAPE. THERMO-PLASTIC STRIPE MAY BE USED IN CONJUNCTION WITH PAINT, FLEX TABS OR TAPE WHEN SPECIFIED IN THE PLANS.
ALL PAVEMENT MARKINGS TO BE PLACED ON TEMPORARY SURFACES OR ON SURFACES SCHEDULED TO BE REMOVED SHALL BE DONE WITH PAINT UNLESS OTHERWISE SHOWN IN THE PLANS OR STANDARD DRAWINGS. ALL FINAL OR FINISHED SURFACES SHALL BE MARKED WITH EITHER REMOVEABLE PAVEMENT MARKING TAPE OR CONSTRUCTION ZONE PAVEMENT MARKERS (FLEX TABS), UNLESS OTHERWISE NOTED ON THE PLANS.
WIDTH OF STRIPED LANE LINES SHALL BE A MINIMUM OF 4".

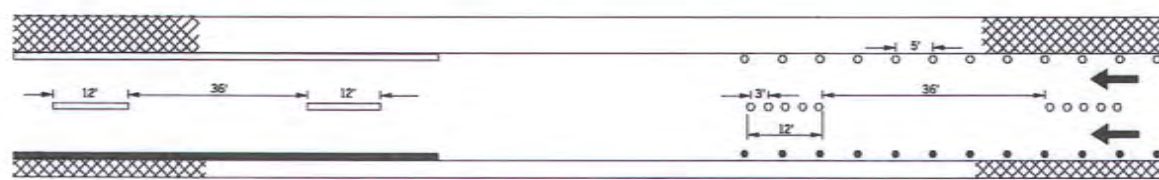
- KEY:
- WORK ZONE
 - WHITE LANE LINE (PAINT OR TAPE)
 - YELLOW LANE LINE (PAINT OR TAPE)
 - WHITE FLEX TAB
 - YELLOW FLEX TAB



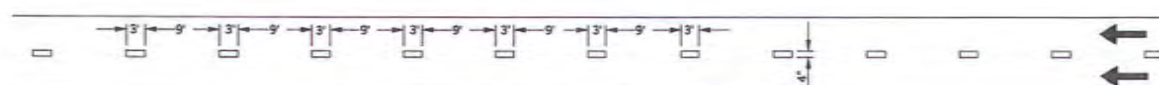
TWO-LANE /TWO-WAY
NO PASSING



TWO-LANE /TWO-WAY
PASSING PERMITTED



4 -LANE
DIVIDED ROADWAY



WHITE DOTTED LINE
INTERIM PAVEMENT MARKINGS



APPROVED BY
TRAFFIC ENGINEER *David Smith* DATE: 6/23/10
TRAFFIC STANDARD

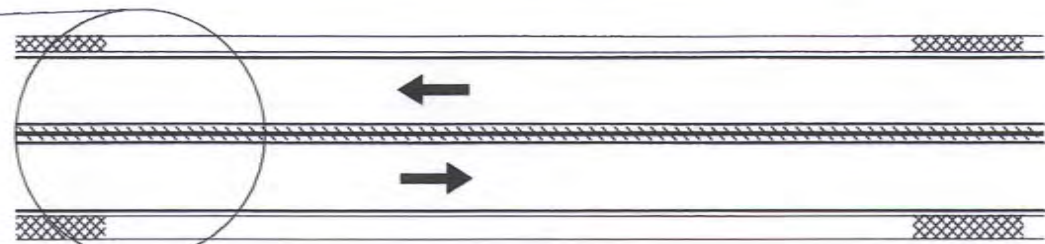
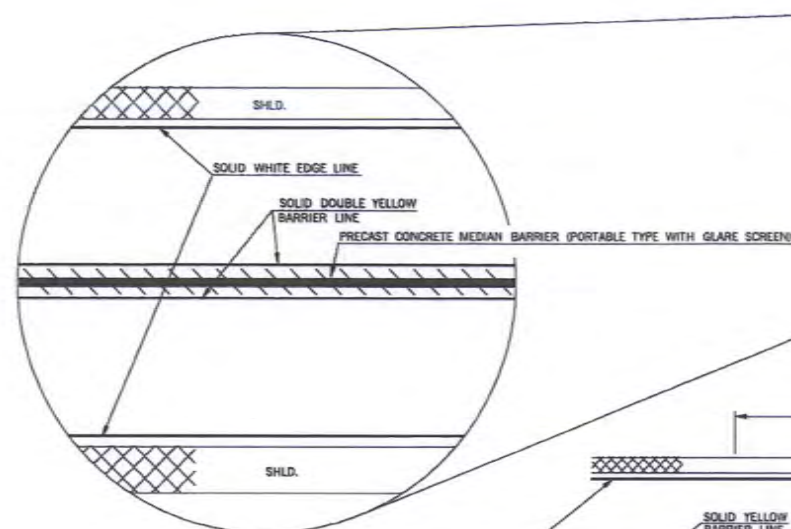
TRAFFIC CONTROL STANDARD
CONSTRUCTION ZONE PAVEMENT MARKINGS

2009 SPECIFICATIONS

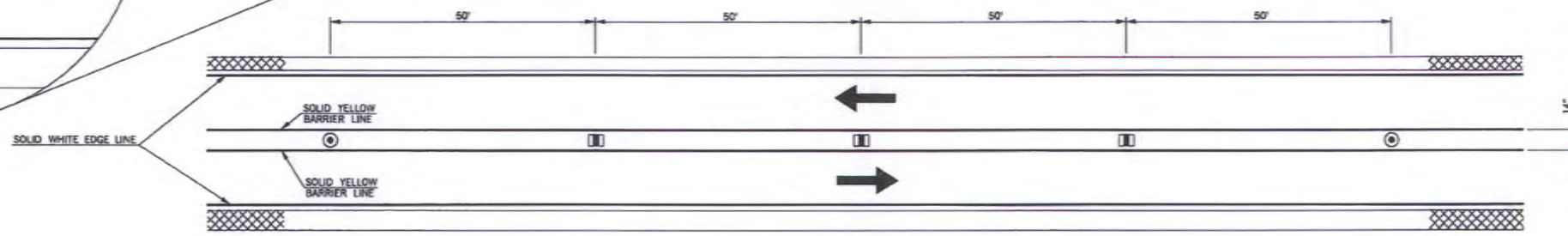
TCS21-1 00
T-521

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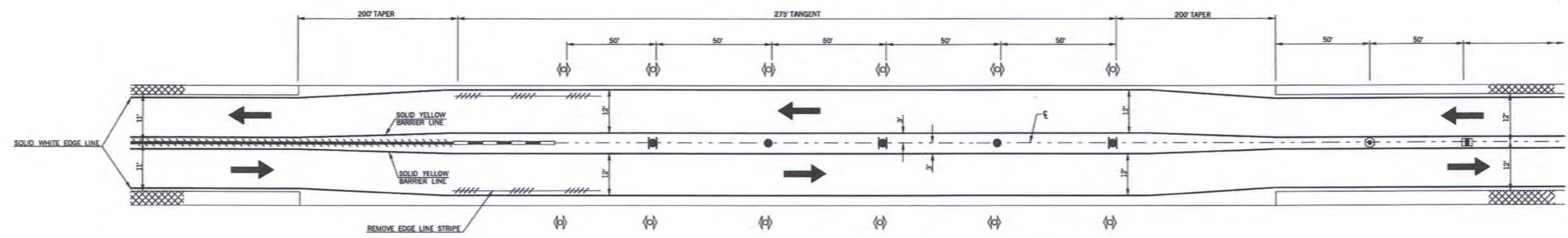
DESCRIPTION	REVISIONS	DATE
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TYPICAL TWO-LANE / TWO-WAY WITH POSITIVE BARRIER



TYPICAL TWO-LANE / TWO-WAY WITHOUT POSITIVE BARRIER



TRANSITION INTO NARROW IMPACT ATTENUATOR

CONSTRUCTION ZONE PAVEMENT MARKINGS

- KEY:
- VERTICAL PANEL W/TYPE "C" STEADY BURN LIGHT
 - CENTERLINE CONST. ZONE PAVEMENT MARKER (YELLOW)
 - TUBE CHANNELIZERS
 - NARROW CZ IMPACT ATTENUATOR
 - PRECAST CONCRETE MEDIAN BARRIER (PORTABLE TYPE WITH GLARE SCREEN)
 - EXISTING PAVEMENT MARKINGS TO BE REMOVED
 - DRUM
 - DRUM WITH SIGNS MOUNTED ON BOTH SIDES

NOTES:
CONSTRUCTION ZONE PAVEMENT MARKINGS SHALL CONSIST OF EITHER PAINT, CONSTRUCTION ZONE PAVEMENT MARKERS (FLEX TAB) OR REMOVABLE PAVEMENT MARKING TAPE. THERMO-PLASTIC STRIPE MAY BE USED IN CONJUNCTION WITH PAINT, MARKERS OR TAPE WHEN SPECIFIED IN THE PLANS.



APPROVED BY
TRAFFIC ENGINEER *David Smith* DATE 6/23/10
TRAFFIC STANDARD

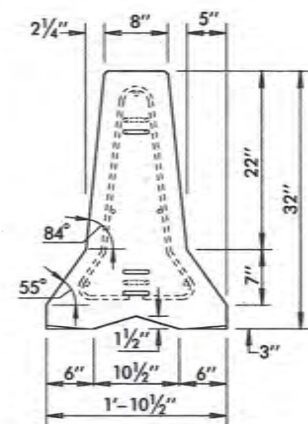
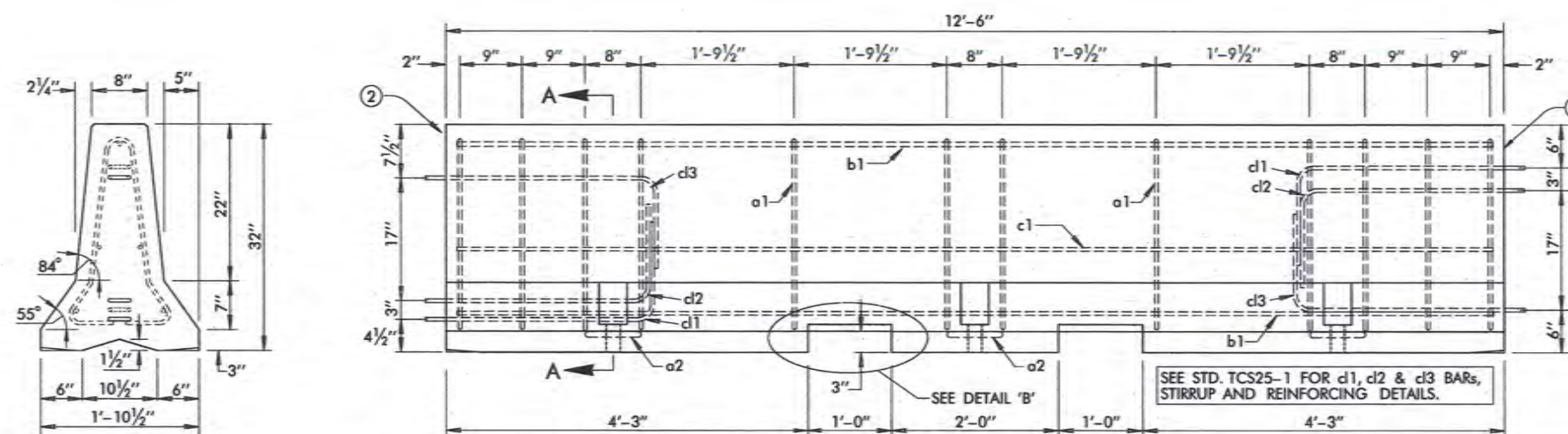
TRAFFIC CONTROL STANDARD
CONSTRUCTION ZONE PAVEMENT MARKINGS

2009 SPECIFICATIONS

TCS22-1	00
T-522	

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DESCRIPTION	REVISIONS	DATE
A	CHANGED DIMENSION	2/25/2011



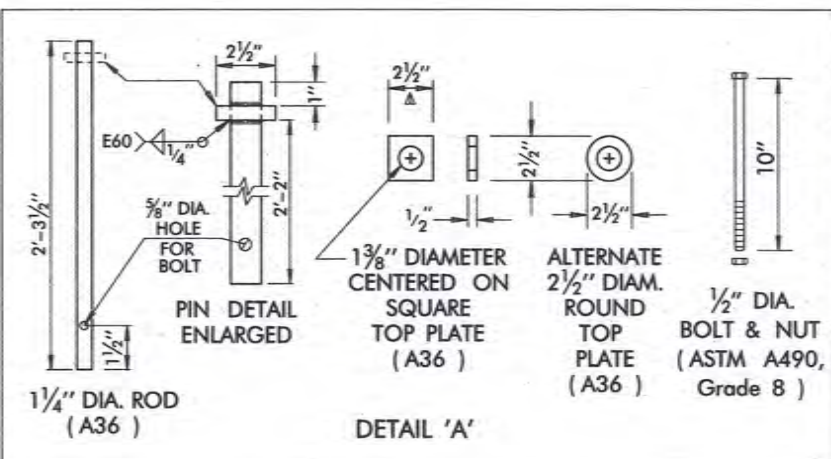
END VIEW

ELEVATION VIEW

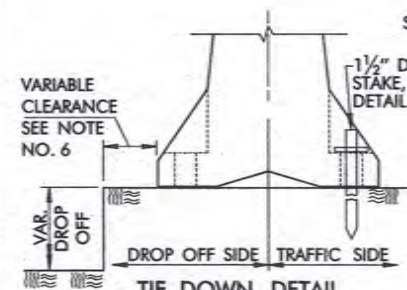
- DRAWING NOTES:**
- 1 INCH RADIUS ALLOWED FOR EASE OF CASTING.
 - THE TOP SURFACE OF ONE END OF EACH BARRIER UNIT SHALL BE PERMANENTLY MARKED INDICATING THE FOLLOWING INFORMATION:
 - NCHRP REPORT 350 APPROVED
 - TYPE F BARRIER
 - MANUFACTURER IDENTIFICATION
 - DATE MANUFACTURED (MONTH AND YEAR)
 EXAMPLE: 350F-SM9/01 (SM=SMITH MATERIALS)
 - 1 INCH CHAMFER TO PREVENT SPALLING

GENERAL NOTES:

- ALL CONSTRUCTION AND MATERIAL REQUIREMENTS OF THE PORTABLE PRECAST CONCRETE MEDIAN BARRIER, PROVIDED BY THE CONTRACTOR, SHALL BE IN ACCORDANCE WITH THE 2009 ENGLISH STANDARD SPECIFICATIONS & MEET REQUIREMENTS OF NCHRP REPORT 350, TEST LEVEL 3. CONTRACTOR MAY PROVIDE ANY PORTABLE F-SHAPE BARRIER DESIGN MEETING THE REQUIREMENTS OF NCHRP REPORT 350, SO LONG AS THE MATERIAL REQUIREMENTS OF 2009 STANDARD SPECIFICATIONS ARE MET.
- CONCRETE FOR PORTABLE PRECAST CONCRETE MEDIAN BARRIER SHALL REACH A MINIMUM OF 4000 PSI STRENGTH AFTER 28 DAYS.
- ALL REINFORCEMENT SHALL BE DEFORMED GRADE 60, AASHTO M 31, EXCEPT FOR THE CONNECTION LOOP BAR ASSEMBLY SHALL BE SMOOTH #6 BARS WITH A MINIMUM YIELD STRENGTH OF 60 KSI, A MINIMUM TENSILE STRENGTH OF 80 KSI, AND PASSING A 180 DEGREE BEND TEST USING A 2 3/4" PIN BEND DIAMETER. THE LOOPS SHALL BE INSTALLED WITHIN 1/8" OF THE PLAN DIMENSIONS.
- CONTRACTOR SHALL FURNISH AND INSTALL REFLECTIVE MARKERS ON BARRIER AS RECOMMENDED BY THE MANUFACTURER AND SHOWN ON THIS SHEET. THE MARKERS SHALL BE INSTALLED AT NOMINAL 12.5 FOOT SPACING AND FACE ONCOMING TRAFFIC. THE CONTRACTOR SHALL MAINTAIN THE MARKERS AND PROMPTLY REPAIR OR REPLACE ANY DAMAGED OR MISSING UNITS. ALL COSTS FOR FURNISHING, INSTALLING AND MAINTAINING MARKERS SHALL BE INCLUDED IN THE PRICE BID FOR THE TEMPORARY BARRIER RAIL.
- UNLESS STATED OTHERWISE IN THE PLANS, THE BARRIER RAIL SECTIONS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AND AT THE COMPLETION OF THE WORK SHALL BE REMOVED FROM THE SITE BY CONTRACTOR.
- WHEN TEMPORARY BARRIER RAIL IS INSTALLED WITHIN 2 FEET OF A DROPOFF, BARRIER SECTIONS SHALL BE ANCHORED WITH TIE DOWN PINS AS DESCRIBED AND SHOWN ON TIE-DOWN DETAIL, THIS SHEET. SEE ROADWAY STD. PDT-1-(LATEST REVISION) FOR PAVEMENT EDGE DROP-OFF DETAILS.

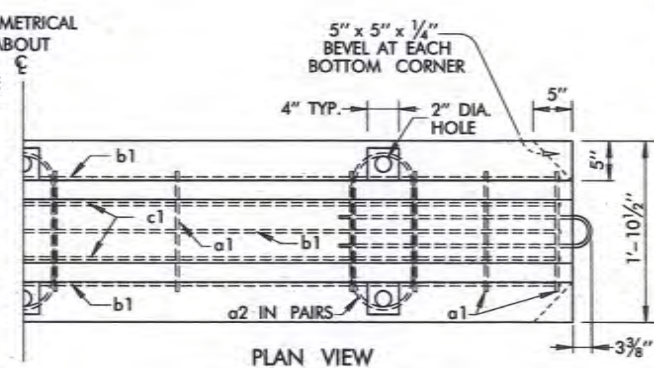


DETAIL 'A'

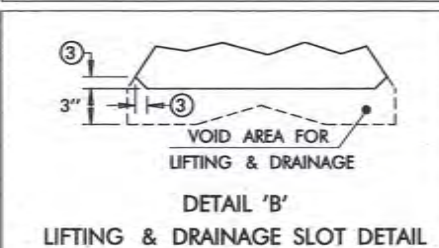


TIE-DOWN DETAIL

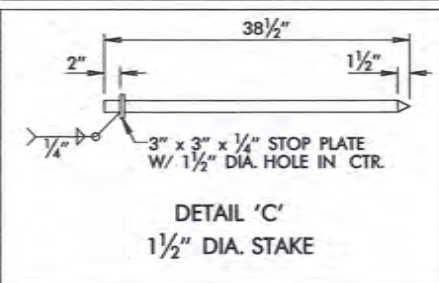
WHEN CONDITIONS REQUIRE PORTABLE BARRIER TO BE TIED DOWN, BARRIER SHALL BE ANCHORED USING 1 1/2" DIA. STAKE AS SHOWN IN THIS DETAIL. AFTER BARRIER IS REMOVED, HOLES SHALL BE FILLED IN A MANNER APPROVED BY THE ENGINEER.



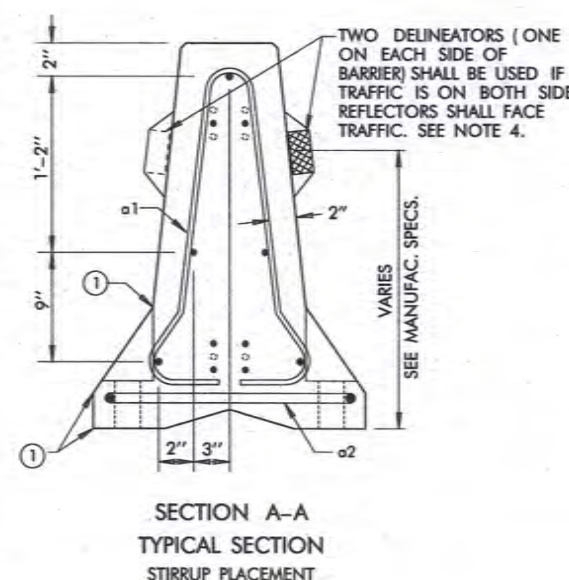
PLAN VIEW



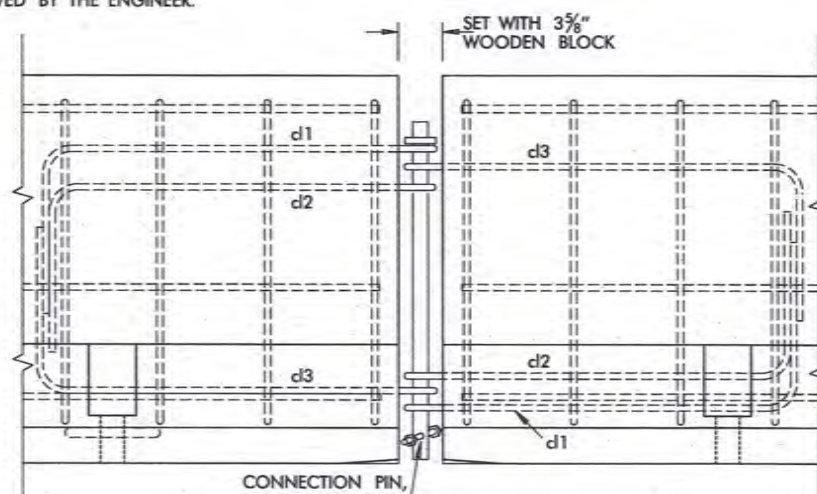
DETAIL 'B'
LIFTING & DRAINAGE SLOT DETAIL



DETAIL 'C'
1 1/2" DIA. STAKE



SECTION A-A
TYPICAL SECTION
STIRRUP PLACEMENT



DETAILS OF BARRIER SECTION CONNECTION

BASIS OF PAYMENT		
ITEM NO.	ITEM	UNIT
877(A)	PORTABLE LONGITUDINAL BARRIER	L.F.
877(B)	DELIVER PORTABLE LONGITUDINAL BARRIER	L.F.
877(C)	RELOCATION OF PORT. LONGITUDINAL BARRIER	L.F.

THIS STANDARD SHALL BE USED IN CONJUNCTION WITH TCS25-1.



APPROVED BY
TRAFFIC ENGINEER: *[Signature]* DATE: 2/23/11

TRAFFIC STANDARD

TRAFFIC CONTROL STANDARD
PORTABLE LONGITUDINAL BARRIER

Regular Board of Commissioners

2. h.

Meeting Date: 07/05/2011

North Harrison Median Landscaping Project

Submitted By: Donna Mayo, Administration

Department: Administration

Information

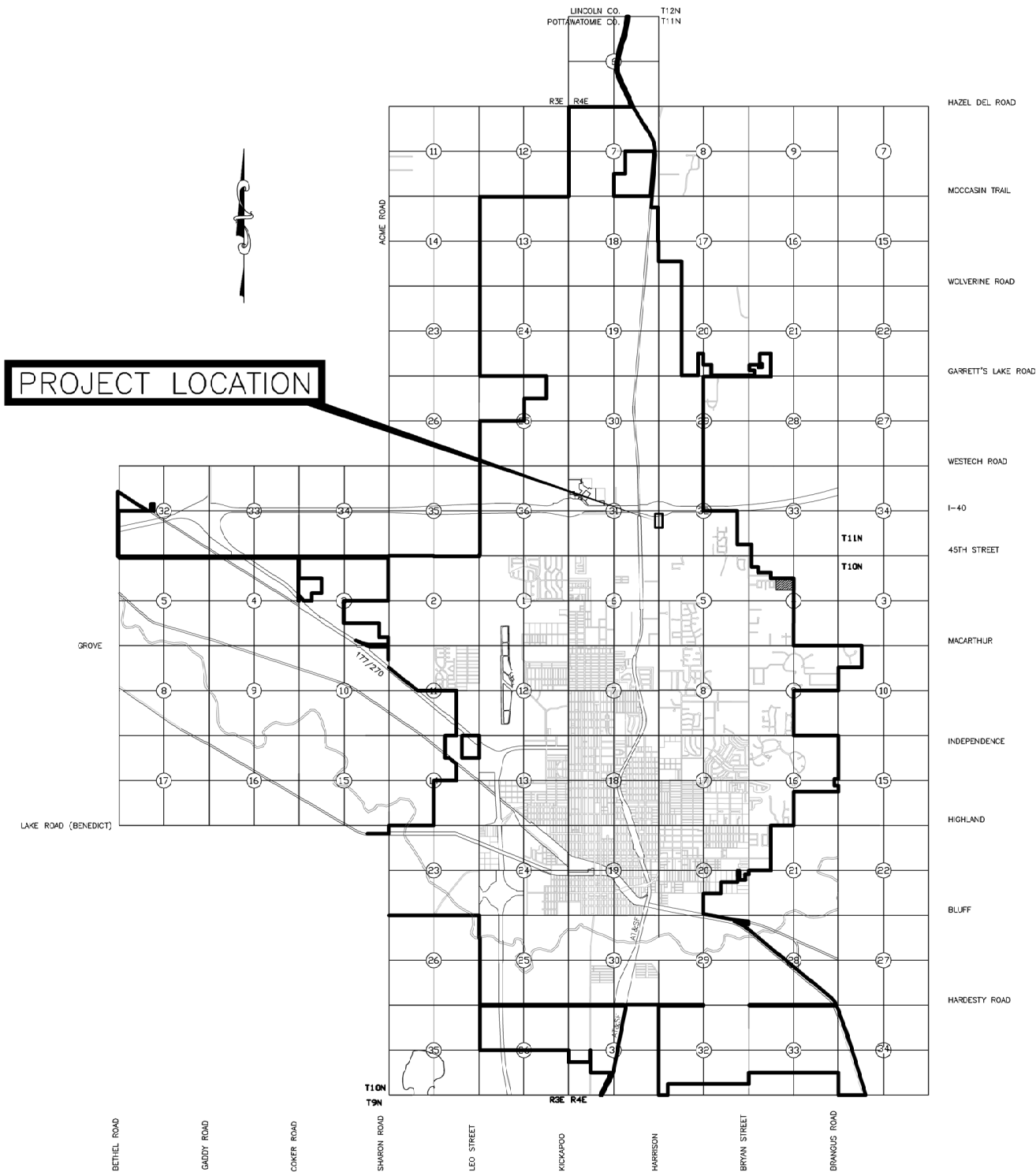
Title of Item for Agenda

Authorize staff to advertise for bids for the North Harrison Median Landscaping Project.

Attachments

North Harrison Median Landscaping Project

HARRISON STREET PLANTER
SOUTH OF I-40 ON HARRISON ST.



COS-PW-xx-xx

THE CITY
OF
SHAWNEE

LINDA PETERSON
MAYOR

BILLY COLLIER
COMMISSIONER
JOHN WINTERRINGER
COMMISSIONER



FRANK SIMS
COMMISSIONER
PAM STEPHENS
COMMISSIONER
CARL HOLT
COMMISSIONER

BRIAN McDOUGAL
CITY MANAGER

PHYLLIS LOFTIS
CITY CLERK

CYNTHIA SEMENTELLI
CITY TREASURER

SHEET INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	PAY QUANTITIES
3	LOCATION MAP
4	DEMOLITION PLAN
5	PROPOSED SITE PLAN
6	IRRIGATION PLAN
7	LANDSCAPING PLAN

UTILITY LOCATION NUMBERS

STATE WIDE	1-800-522-6543
OUT OF STATE	1-800-654-8249
LOCAL	1-405-273-1250

ENGINEERING DEPARTMENT

APPROVED AS FINAL PLANS:

MAYOR _____ DATE _____
CITY MANAGER _____ DATE _____

CITY CLERK _____ DATE _____ CITY ENGINEER _____ DATE _____

SUMMARY OF QUANTITIES – BASE BID					
ITEM NO.	SPEC. NO.	ITEM	UNIT	QUANTITY	AS-BUILT
1	610(A)	Stamped Concrete (4') (1)(2)	S.Y.	237.00	
2	303	3/4" Crushed Rock Aggregate Base	C.Y.	14.00	
3	202(A)	Unclassified Excavation	C.Y.	4.00	
4	202(B)	Embankment	C.Y.	426.00	
5	619(D)	Remove Concrete Median	S.Y.	875.00	
6	850	Remove & Reset (Sign)	EA.	2.00	
7		Irrigation Dripline System (3)	L.S.	1.00	
8		Roadway Bore (2")	L.F.	50.00	
9		Conduit Line (2')	L.F.	50.00	
10	616	Copper Water Service Pipe (1")	L.F.	95.00	
11	616	Water Service Tap (1")	EA.	1.00	
12	616	Meter Installation (1')	EA.	1.00	
13		Sign (Welcome to Shawnee) (4)	EA.	1.00	
14	880(J)	Traffic Control	L.S.	1.00	
15	220	Erosion Control	L.S.	1.00	
16	641	Mobilization	L.S.	1.00	
PLANTS					
17		Harbor Dwarf Nandina	EA.	200.00	
18		Dwarf Fountain Grass	EA.	200.00	
19		Tightwad Red Crapemyrtle	EA.	20.00	
20		Royal Burgandy Barberry	EA.	48.00	
21		Variegated Loriope	EA.	250.00	
22		Miscanthus "Maiden Grass"	EA.	9.00	
23		Big Blue Loriope	EA.	120.00	

QUANTITY NOTES:

- (1) Of which 63 S.Y. is flat and 174 S.Y. is inclined.
(2) Concrete shall be stained Terracotta color.
(3) Bid item shall include cost for all necessary pipe, fittings, filters, valves, pressure regulators, backflow preventers and any other items necessary to complete the installation.
(4) The size of the sign shall be 8’ in height and 9’ in width.

GENERAL CONSTRUCTION NOTES

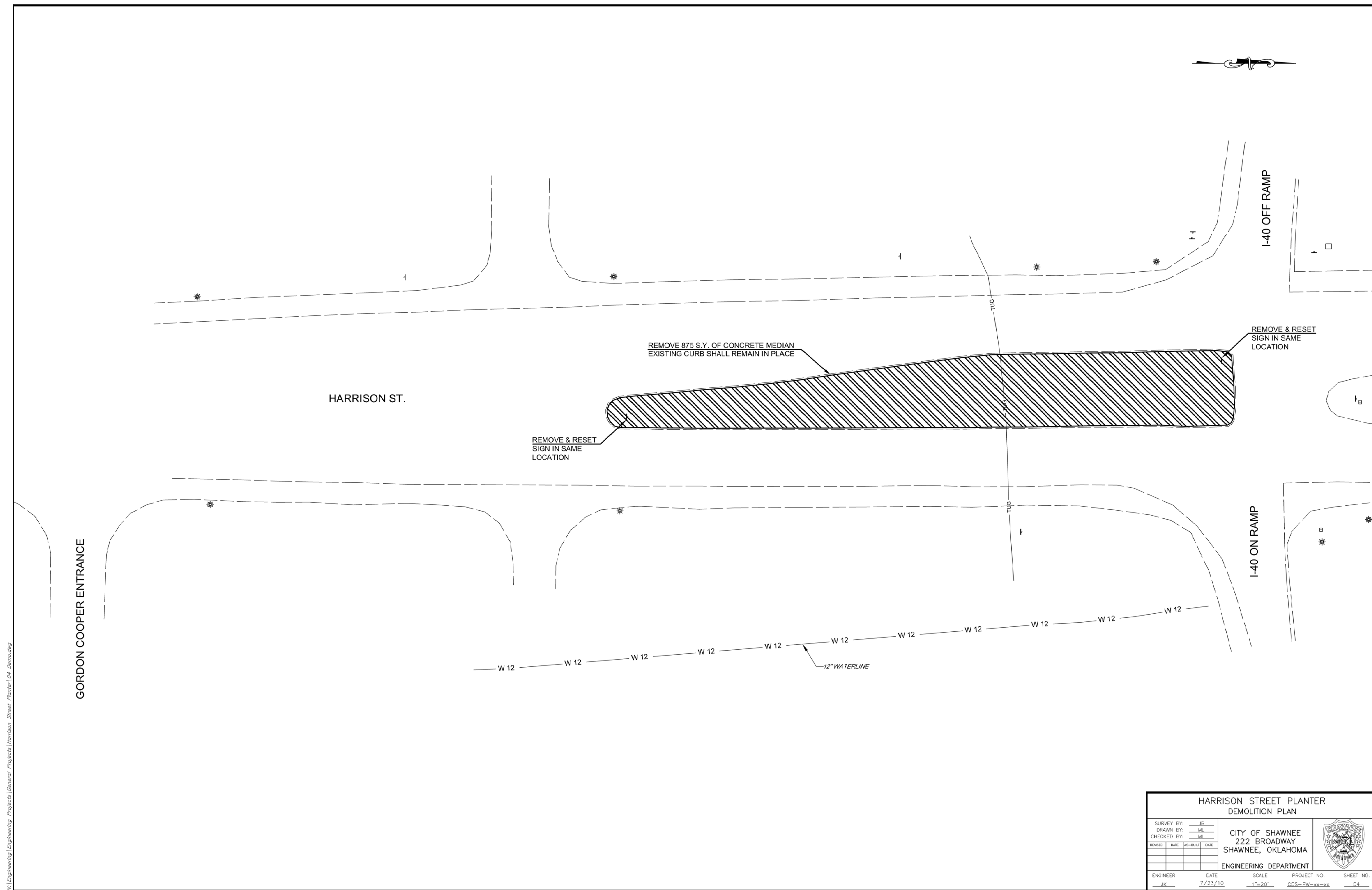
1. ALL CONSTRUCTION AND MATERIALS, UNLESS OTHERWISE NOTED, SHALL BE IN STRICT ACCORDANCE WITH THE OKLAHOMA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 1999 OR LATEST EDITION.
2. THE CONTRACTOR SHALL DELETE ALL REFERENCE TO MEASUREMENT AND PAYMENT ON STANDARD DETAIL SHEETS. QUANTITY TABLES ON ALL STANDARD DETAILS ARE FOR REFERENCE ONLY.
3. THE CONTRACTOR SHALL CALL OKIE AT 1-800-522-6543 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
4. EXISTING UTILITY LOCATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR FOR DEPTH AND LOCATION PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL RELOCATE OR ADJUST TO GRADE UTILITIES AS SHOWN ON THE PLANS. CONTRACTOR SHALL COORDINATE CONSTRUCTION OPERATIONS WITH ALL OTHER UTILITY COMPANIES FOR THE RELOCATION OF THEIR LINES PRIOR TO BEGINNING CONSTRUCTION.
5. EVERY EFFORT HAS BEEN MADE TO LOCATE AND SIZE ALL UNDERGROUND UTILITIES FROM AVAILABLE CITY DOCUMENTS, ON SITE SURVEYS AND UTILITY COMPANY REFERENCE MATERIAL. CONTRACTOR SHALL EXERCISE EXTREME CARE AND CAUTION IN THE EXECUTION OF HIS WORK AND SHALL ANTICIPATE THAT UTILITIES, PIPELINES AND OTHER DANGEROUS UNDERGROUND OBSTRUCTIONS EXIST AND ARE NOT SHOWN ON THE PLAN AND PROFILE SHEETS. WHEN LINES OR OTHER OBSTRUCTIONS ARE LOCATED DURING CONSTRUCTION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT SUCH AND IMMEDIATELY NOTIFY THE OWNER, UTILITY COMPANY AND ENGINEER.
6. TEMPORARY CONSTRUCTION RIGHTS-OF-WAY, IN ADDITION TO THOSE SHOWN ON THE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND OBTAINED PRIOR TO BEGINNING ANY CONSTRUCTION OR ACTIVITY ON PRIVATE PROPERTY.
7. SURPLUS EXCAVATED MATERIALS ARE THE PROPERTY OF THE CONTRACTOR AND ARE HIS RESPONSIBILITY TO LEGALLY DISPOSE OF OFF SITE.
8. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PROMPT REPLACEMENT AND/OR REPAIR OF ALL TRAFFIC CONTROL DEVICES AND APPURTENANCES DAMAGED OR DISTURBED DUE TO CONSTRUCTION.
9. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION, REPAIR, & REPLACEMENT OF ALL EROSION CONTROL DEVICES
10. A COPY OF THE EROSION CONTROL SITE PLAN MUST BE ON SITE AT ALL TIMES AND MADE AVAILABLE TO THE CITY/STATE INSPECTOR AT ALL TIMES.
11. THE GENERAL CONTRACTOR SHALL CONTACT THE TRAFFIC MANAGEMENT DIVISION AT LEAST TWO (2) WORKING DAYS PRIOR TO ANY WORK INVOLVING TRAFFIC. CALL (405) 878-1760.

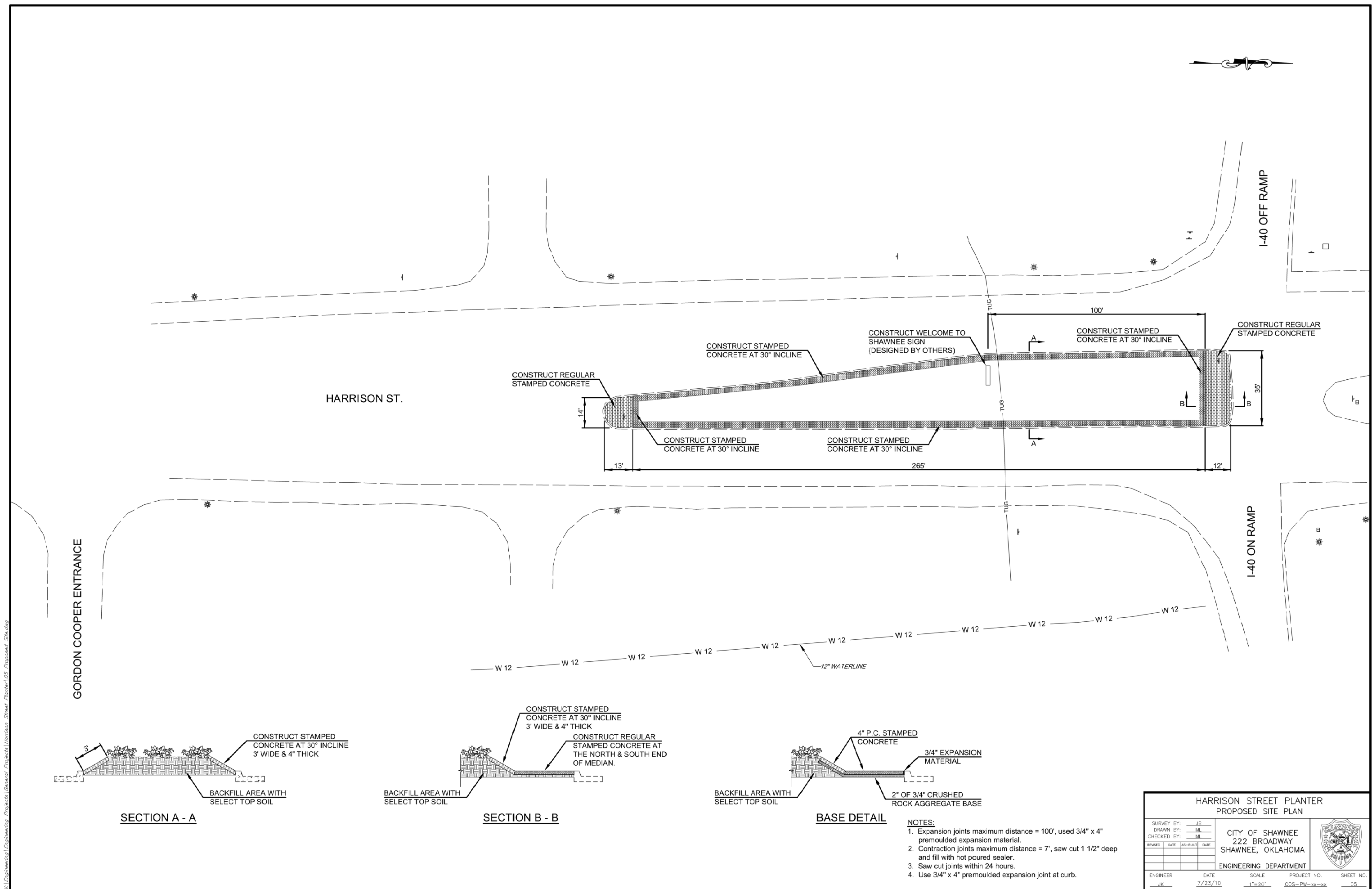
HARRISON STREET PLANTER PAY QUANTITY SHEET					
SURVEY BY: <u>NA</u>		CITY OF SHAWNEE 222 BROADWAY SHAWNEE, OKLAHOMA			
DRAWN BY: <u>M.L.</u>					
CHECKED BY: <u>M.L.</u>					
REVISED	DATE	AS-BUILT	DATE		
ENGINEERING DEPARTMENT					
ENGINEER	DATE	SCALE	PROJECT NO.	SHEET NO.	
<u>J.K.</u>	<u>7/23/10</u>	<u>N.T.S.</u>	<u>GOS-PW-xx-xx</u>	<u>02</u>	

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HARRISON STREET PLANTER LOCATION MAP									
SURVEY BY: JJE		DRAWN BY: ML		CHECKED BY: ML		CITY OF SHAWNEE 222 BROADWAY SHAWNEE, OKLAHOMA			
REVISED	DATE	AS-BUILT	DATE						
ENGINEER JK		DATE 7/23/10		SCALE 1"=100'		PROJECT NO. GOS-PW-XX-XX		SHEET NO. 03	





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GORDON COOPER ENTRANCE

HARRISON ST.

THE DRIPLINE LAYOUT SHOWN IS
FOR VISUAL REPRESENTATION
ONLY. THE ACTUAL LAYOUT AND
DESIGN SHALL BE DONE BY THE
CONTRACTOR.

CONST. 50 L.F. OF
2" BORE WITH A
2" CONDUIT LINE

CONST. 95 L.F. OF
1" WATER LINE

CONST. 1" WATER
METER

TAP EXIST. WATER
LINE

12" WATERLINE

I-40 OFF RAMP

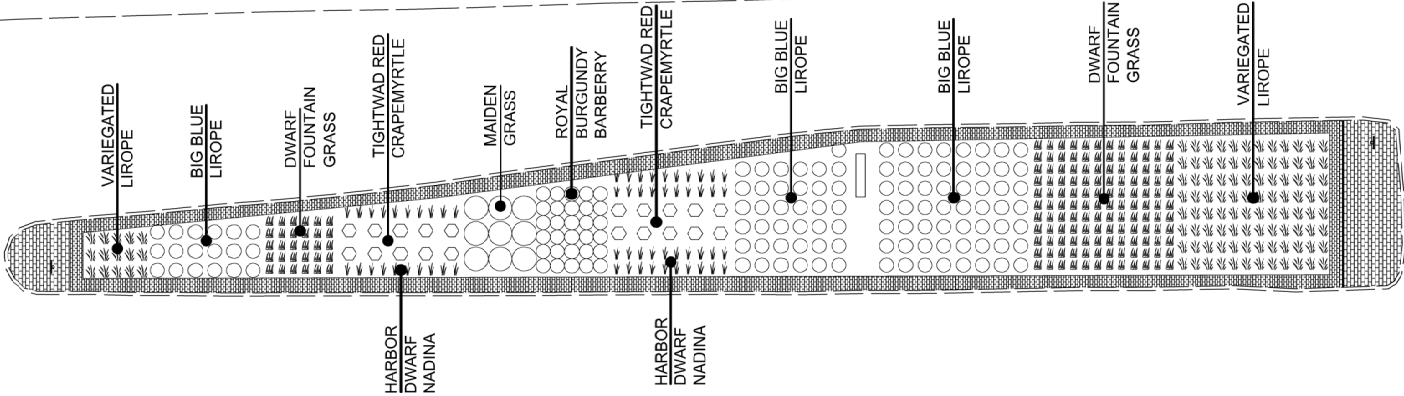
I-40 ON RAMP

HARRISON STREET PLANTER IRRIGATION PLAN									
SURVEY BY: JE				CITY OF SHAWNEE 222 BROADWAY SHAWNEE, OKLAHOMA					
DRAWN BY: ML									
CHECKED BY: ML									
REVISED	DATE	AS-BUILT	DATE	ENGINEERING DEPARTMENT					
ENGINEER	DATE	SCALE	PROJECT NO.	SHEET NO.					
JK	7/23/10	1"=20'	GOS-PW-xx-xx	06					

N:\Engineering\Engineering Projects\General Projects\Harrison Street Planter\07 Landscaping.dwg

GORDON COOPER ENTRANCE

HARRISON ST.



NOTE: THE LANDSCAPE LAYOUT SHOWN IS FOR VISUAL REPRESENTATION ONLY. THE ACTUAL LAYOUT OF PLANT SPACING SHALL BE DETERMINED BY OTHERS.

I-40 OFF RAMP

I-40 ON RAMP

HARRISON STREET PLANTER LANDSCAPING PLAN									
SURVEY BY: JJE		DRAWN BY: ML		CHECKED BY: ML		CITY OF SHAWNEE 222 BROADWAY SHAWNEE, OKLAHOMA			
REVISED	DATE	AS-BUILT	DATE						
ENGINEER JJK		DATE 7/23/10		SCALE 1"=20'		PROJECT NO. GOS-PW-KK-XX		SHEET NO. 07	

Regular Board of Commissioners

2. i.

Meeting Date: 07/05/2011

Lakesite Leases

Submitted By: Donna Mayo, Administration

Department: Administration

Information

Title of Item for Agenda

Lakesite Leases Transfers and Renewals:

Transfers:

Lot 2 Belcher Tract, 15512 Nickens Road

From: Tibbs

To: Perkins & Vickery

Lot 5 Magnino A Tract, 17104 Magnino Road

From: Carroll

To: Childers

Renewals:

Lot 5 Green Tract, 32101 Hornbeck Road

Bykerk

Lot 3 Roewe Tract, 15515 Perry Road

Moore

Attachments

Lot 2 Belcher Tract Transfer

Lot 5 Magnino A Tract Transfer

Lot 5 Green Tract Renewal

Lot 3 Roewe Tract Renewal



City of Shawnee
Community Development Department
222 N. Broadway
Shawnee, OK 74801
(405) 878-1665 Fax (405) 878-1587
www.ShawneeOK.org

**SHAWNEE TWIN LAKES CABIN SITE LEASES
SUMMARY/INSPECTION REPORT – FOR RENEWALS/TRANSFERS**

Date	6/13/11	License No. #020571
Type	☐ Renewal	☒ Transfer (Fee: \$1,000)
Commission Meeting Date	July 5, 2011	
Property Address	15512 NICKENS RD	
Lake Site Location	LOT 2 BELCHER TRACT	
Lease Dates	7/5/2011 – 7/5/2041	
Lease Fee (changes annually)	\$612.00	
Inspection Fee	\$75.00 Applicable: ☐ Yes ☒ No	
Lessee (Transfer To)		
Name(s)	AMY PERKINS & MANDY VICKERY	
Address	SEE FILE	
Phone	SEE FILE	
Current Lessee (Transfer From) (if applicable)		
Name(s)	RICHARD TIBBS OBO DONNA TIBBS (DECEASED)	
Address		
Phone		
Inspection Information		
Inspection Required	☐ Yes ☒ No (if no, due: 8/21/12)	
DEQ Report on File	☒ Yes ☐ No	
Type of Septic System	☒ Conventional ☐ Aerobic	
Last Inspected/Pumped	8/12/07	
Misc. Comments		
Total Charges Paid: \$612.00		



City of Shawnee
Community Development Department
222 N. Broadway
Shawnee, OK 74801
(405) 878-1665 Fax (405) 878-1587
www.ShawneeOK.org

SHAWNEE TWIN LAKES CABIN SITE LEASES
SUMMARY/INSPECTION REPORT – FOR RENEWALS/TRANSFERS

Date	06/13/11	License No. #020589
Type	☐ Renewal ☒ Transfer (Fee: \$1,000)	
Commission Meeting Date	July 5, 2011	
Property Address	17104 MAGNINO RD	
Lake Site Location	LOT 5 MAGNINO A TRACT	
Lease Dates	7/5/2011 – 7/5/2041	
Lease Fee (changes annually)	\$612.00	
Inspection Fee	\$75.00 Applicable: ☐ Yes ☒ No	
Lessee (Transfer To)		
Name(s)	KENNY & MICHELLE CHILDERS	
Address	SEE FILE	
Phone	SEE FILE	
Current Lessee (Transfer From) <i>(if applicable)</i>		
Name(s)	JAMES CARROLL	
Address	SEE FILE	
Phone	SEE FILE	
Inspection Information		
Inspection Required	☐ Yes ☐ No (if no, due:)	
DEQ Report on File	☐ Yes ☐ No	
Type of Septic System	☐ Conventional ☐ Aerobic	
Last Inspected/Pumped	NO SEPTIC ON LOT	
Misc. Comments	 Total Charges Paid: \$1612.00	



City of Shawnee
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222 N. Broadway
Shawnee, OK 74801
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www.ShawneeOK.org

**SHAWNEE TWIN LAKES CABIN SITE LEASES
SUMMARY/INSPECTION REPORT – FOR RENEWALS/TRANSFERS**

Date	6/13/11	License No. #009545
Type	☒ Renewal ☐ Transfer (Fee: \$1,000)	
Commission Meeting Date	July 5, 2011	
Property Address	32101 HORNBECK RD	
Lake Site Location	LOT 5 GREEN TRACT	
Lease Dates	6/18/11 – 6/18/2041	
Lease Fee (changes annually)	\$612.00	
Inspection Fee	\$75.00	Applicable: ☐ Yes ☒ No
Lessee (Transfer To)		
Name(s)	RENEE BYKERK	
Address	SEE FILE	
Phone	SEE FILE	
Current Lessee (Transfer From) <i>(if applicable)</i>		
Name(s)		
Address		
Phone		
Inspection Information		
Inspection Required	☐ Yes ☒ No (if no, due: 5/11/13)	
DEQ Report on File	☒ Yes ☐ No	
Type of Septic System	☐ Conventional ☒ Aerobic	
Last Inspected/Pumped	5/11/11 NEW SYSTEM INSTALLED	
Misc. Comments		
Total Charges Paid: \$612.00		



City of Shawnee
Community Development Department
222 N. Broadway
Shawnee, OK 74801
(405) 878-1665 Fax (405) 878-1587
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**SHAWNEE TWIN LAKES CABIN SITE LEASES
SUMMARY/INSPECTION REPORT – FOR RENEWALS/TRANSFERS**

Date	06/03/11	License No. #009612
Type	☒ Renewal	☐ Transfer (Fee: \$1,000)
Commission Meeting Date	July 5, 2011	
Property Address	15515 PERRY RD	
Lake Site Location	LOT 3 ROEWE TRACT	
Lease Dates	06/18/2011 – 06/18/2041	
Lease Fee (changes annually)	\$612.00	
Inspection Fee	\$75.00 Applicable: ☒ Yes ☐ No	
Lessee (Transfer To)		
Name(s)	EDWARD & SANDRA MOORE	
Address	SEE FILE	
Phone	SEE FILE	
Current Lessee (Transfer From) (if applicable)		
Name(s)		
Address		
Phone		
Inspection Information		
Inspection Required	☒ Yes ☐ No (if no, due:)	
DEQ Report on File	☒ Yes ☐ No	
Type of Septic System	☐ Conventional ☒ Aerobic	
Last Inspected/Pumped	05/31/2011	
Misc. Comments		
Total Charges Paid: \$687.00		

Regular Board of Commissioners

2. j.

Meeting Date: 07/05/2011

Traffic Commission Recommendations

Submitted By: Donna Mayo, Administration

Department: Administration

Information

Title of Item for Agenda

Traffic Commission Recommendations from June 28, 2011

A. Consideration of request by Parks Department staff for street light at the corner of W. Farrall and Dockrey Ballfield.

STAFF RECOMMENDATION: Staff recommends installation at requested location.

BOARD RECOMMENDATION: Board agrees with staff recommendation.

B. Consideration of request by Mike Pritchard, 832 W. Forrest, to put up a vapor light at the corner of Forrest and Tennessee

STAFF RECOMMENDATION: Staff recommends to deny this request.

BOARD RECOMMENDATION: Board agrees with staff recommendation.

Attachments

Traffic Commission Recommendations

STAFF RECOMMENDATIONS
TRAFFIC COMMISSION
June 28, 2011 MEETING

- A. Consideration of request by Parks Department staff for street light at the corner of W. Farrall and Dockrey Ballfield.

STAFF RECOMMENDATION: Staff recommends installation at requested location.

BOARD RECOMMENDATION: Board agrees with staff recommendation.

- B. Consideration of request by Mike Pritchard, 832 W. Forrest, to put up a vapor light at the corner of Forrest and Tennessee

STAFF RECOMMENDATION: Staff recommends to deny this request.

BOARD RECOMMENDATION: Board agrees with staff recommendation.

Regular Board of Commissioners

4.

Meeting Date: 07/05/2011

Linden Heights First Addition

Submitted By: Donna Mayo, Administration

Department: Administration

Information

Title of Item for Agenda

Consider acceptance of Final Plat and public easement and infrastructure for Linden Heights First Addition.

Attachments

Acceptance of easement and infrastructure Linden Hights

Linden Heights First Addition Final Plat



City of Shawnee
Community Development Department
222 N. Broadway
Shawnee, OK 74801
(405) 878-1665 Fax (405) 878-1587
www.ShawneeOK.org

MEMORANDUM

AGENDA: July 5, 2011

TO: Shawnee City Commission

FROM: Justin Erickson, Planning Director

RE: Linden Heights First Addition – Final Plat

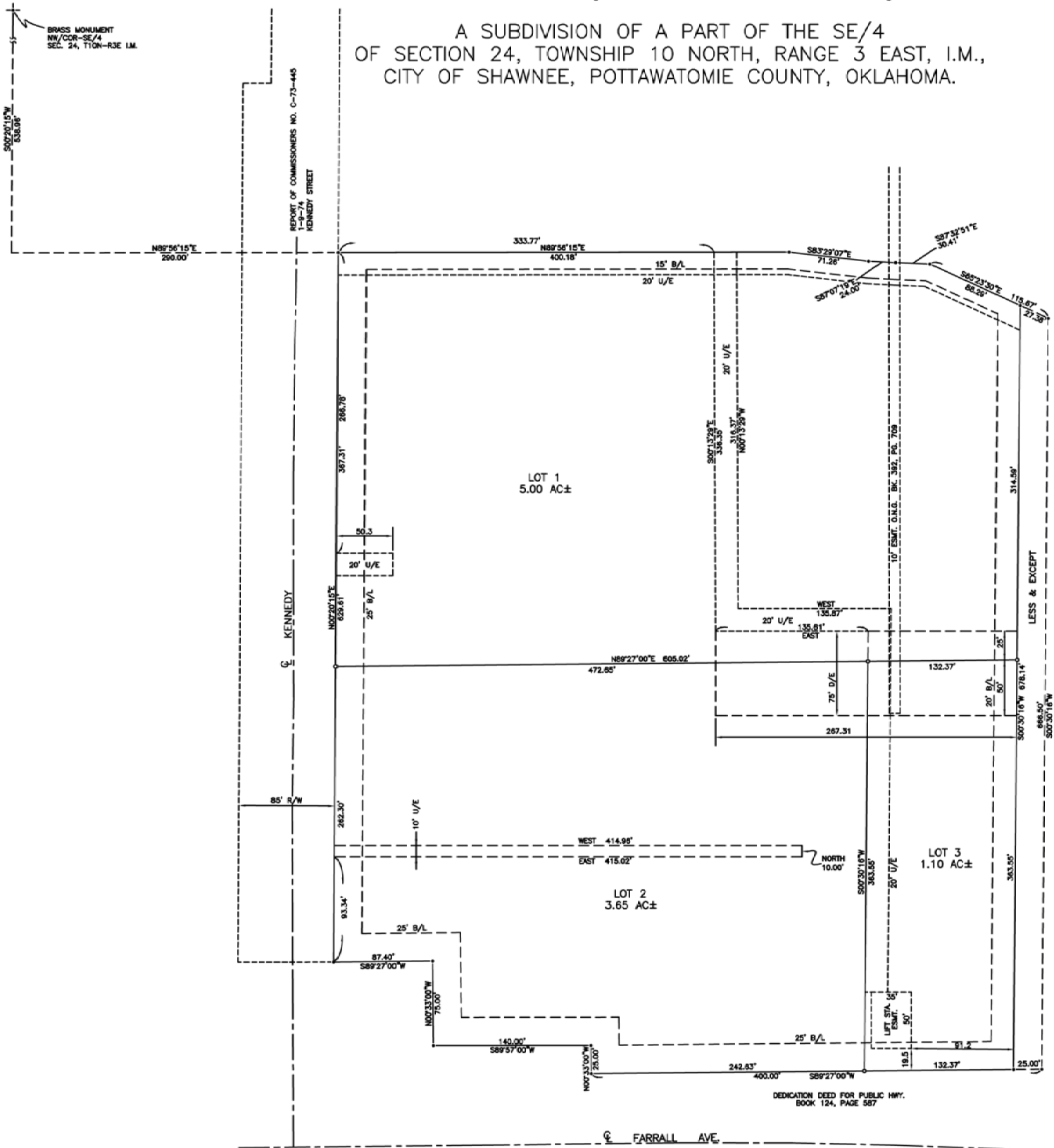
Staff recommends acceptance of all public improvements related to Linden Heights First Addition. All three lots meet City standards relative to public road access and water and sewer infrastructure. Acceptance by the City Commission will allow the Mayor to sign the final plat and the applicant to record the document with the County.

Attachment

FINAL PLAT

LINDEN HEIGHTS FIRST ADDITION

A SUBDIVISION OF A PART OF THE SE/4
OF SECTION 24, TOWNSHIP 10 NORTH, RANGE 3 EAST, I.M.,
CITY OF SHAWNEE, POTTAWATOMIE COUNTY, OKLAHOMA.



OWNER'S CERTIFICATE AND DEDICATION

KNOW ALL MEN BY THESE PRESENTS:
That LINDEN-SHAWNEE PARTNERS, L.P.,
does hereby certify that they are the owners of and the only
persons, firms, or corporation having any right, title or interest
in and to the land shown on the annexed plat, and that they have
caused the same to be surveyed and plotted, and that they hereby
dedicate all the streets and easements shown hereon to the public,
for the purposes of streets, utilities and drainage, for their
heirs, executors, administrators, successors and assign forever,
and have caused the same to be released from all encumbrances so
that the title is clear, except as shown in the abstractor's
certificates.
In Witness Whereof, the undersigned have caused this instrument to
be executed this _____ day of _____, 20____.
Covenants, reservations and restrictions for this addition are
contained in a separate instrument.

LINDEN-SHAWNEE PARTNERS, L.P.

LAWRENCE A. MAZZOTTA, C.E.O.
GENERAL PARTNER

STATE OF _____ }
COUNTY OF _____ } SS:

The foregoing instrument was acknowledged before me this _____ day of _____, 20____.

My Commission Expires: _____

Notary Public

LAND SURVEYOR'S CERTIFICATE

I, Billy Gene Knight, Professional Land Surveyor hereby certify that the annexed plat of LINDEN HEIGHTS FIRST ADDITION, an addition to the City of Shawnee, Pottawatomie County, Oklahoma, correctly represents a careful survey made under my supervision and any monuments shown thereon actually exist and their respective positions are correctly shown. I further certify that this plat complies with the requirements of Senate Bill No. 377, Section 518, as amended.

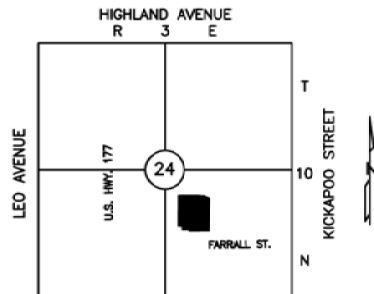
Billy Gene Knight, P.L.S. #1244

STATE OF OKLAHOMA }
COUNTY OF POTTAWATOMIE } SS:

The foregoing instrument was acknowledged before me this _____ day of _____, 20____.

My Commission Expires: _____

Notary Public



LOCATION MAP
SCALE: 1" = 2000'

BONDED ABSTRACTOR'S CERTIFICATE

The undersigned, a duly qualified abstractor in and for Pottawatomie County, State of Oklahoma, hereby certifies that according to the records of said County, title to the land included in the annexed plat of Linden Heights First Addition, an Addition to the City of Shawnee, Pottawatomie County, Oklahoma, appears to be vested in Linden-Shawnee II Partners, L.P.

EXECUTED at City of Shawnee, Pottawatomie County, State of Oklahoma, on this _____ day of _____, 20____.

ATTEST: FIRST AMERICAN TITLE & TRUST COMPANY

By: _____ Asst. Secretary By: _____ Vice-President

STATE OF OKLAHOMA }
COUNTY OF POTTAWATOMIE } SS:

The foregoing instrument was acknowledged before me this _____ day of _____, 20____.

By: _____, Vice-President of FIRST AMERICAN TITLE & TRUST COMPANY, an Oklahoma Corporation, on behalf of the Corporation.

My Commission Expires: _____

Notary Public

COUNTY TREASURER'S CERTIFICATE

I, _____, do hereby certify that I am the duly elected, qualified and acting County Treasurer of Pottawatomie County, State of Oklahoma, that the tax records of said County show all taxes are paid for the year 20____ and prior years on the land shown on the annexed plat, that the required statutory security has been deposited in the office of the County Treasurer, guaranteeing payment of the current years taxes.
IN WITNESS WHEREOF, said County Treasurer has caused this instrument to be executed at the City of Shawnee, Oklahoma, this _____ day of _____, 20____.

County Treasurer

CITY PLANNING COMMISSION APPROVAL

I, _____, Chairman of the City Planning Commission for the City of Shawnee, State of Oklahoma, hereby certify that the said commission duly approved the annexed plat on the _____ day of _____, 20____.

CHAIRMAN

ACCEPTANCE OF DEDICATION OF CITY COUNCIL

BE IT RESOLVED by the Council of the City of Shawnee, Oklahoma, that the dedications shown on the annexed plat are hereby accepted. Adopted by the Council of the City of Shawnee, Oklahoma, this _____ day of _____, 20____.

ATTEST: CITY OF SHAWNEE, OKLAHOMA

City Clerk

Mayor

CERTIFICATE OF CITY CLERK

I, _____, City Clerk of the City of Shawnee, State of Oklahoma, hereby certify that I have examined the records of said City and find that all deferred payments or unmatured installments upon special assessments have been paid in full and that there is no special assessment procedure now pending against the land shown on the annexed plat on this _____ day of _____, 20____.

City Clerk

LEGAL DESCRIPTION:

A TRACT OF LAND LOCATED IN THE SOUTHEAST QUARTER (SE/4) OF SECTION TWENTY-FOUR (24), TOWNSHIP TEN (10) NORTH, RANGE THREE (3) EAST OF THE INDIAN MERIDIAN, POTTAWATOMIE COUNTY, OKLAHOMA, MORE PARTICULARLY DESCRIBED AS BEGINNING AT A POINT 290.00 FEET N89°56'15"E AND 538.66 FEET S00°20'15"W OF THE NORTHWEST CORNER OF THE SAID SE/4; THENCE N89°56'15"E FOR A DISTANCE OF 400.18 FEET; THENCE S87°22'07"E FOR A DISTANCE OF 71.26 FEET; THENCE S87°07'19"E FOR A DISTANCE OF 24.00 FEET; THENCE S87°32'21"E FOR A DISTANCE OF 30.41 FEET; THENCE S89°23'30"E FOR A DISTANCE OF 115.67 FEET; THENCE S00°30'15"W FOR A DISTANCE OF 686.50 FEET; THENCE S89°27'00"W FOR A DISTANCE OF 400.00 FEET; THENCE N00°33'00"W FOR A DISTANCE OF 25.00 FEET; THENCE S89°57'00"W FOR A DISTANCE OF 140.00 FEET; THENCE N00°33'00"W FOR A DISTANCE OF 75.00 FEET; THENCE S89°27'00"W FOR A DISTANCE OF 87.40 FEET; THENCE N00°20'15"E FOR A DISTANCE OF 629.61 FEET TO THE POINT OF BEGINNING, LESS AND EXCEPT THE EAST TWENTY-FIVE (25) FEET THEREOF.



LANDES ENGINEERING & ASSOCIATES www.landesengineering.net 903 EAST 35TH STREET, SHAWNEE, OK. 74804 405-275-5755 CA #2260 EXP. 6-30-11		LINDEN-SHAWNEE PARTNERS, L.P. SHAWNEE, OKLAHOMA	
DATE: 03/31/2011	REV.	CHECKED: bgk	DRAWING NUMBER: 5563

Regular Board of Commissioners

5.

Meeting Date: 07/05/2011

Central Disposal Contract Renewal

Submitted By: Donna Mayo, Administration

Department: Administration

Information

Title of Item for Agenda

Consider renewal of contract with Central Disposal for the period July 1, 2011 to June 30, 2012, amending Section II to allow for creation of an escrow account in lieu of a performance bond.

Attachments

Central Disposal Contract

**CONTRACT
FOR
SOLID WASTE COLLECTION
AND
DISPOSAL SERVICES**

This contract, made and entered into this ____ day of _____, 2011, by and between the Shawnee Municipal Authority, a public Trust for the benefit of the City of Shawnee, hereinafter referred to as "AUTHORITY" and

Central Disposal LLC, a limited liability company,
Hereinafter referred to as "CONTRACTOR."

WHEREAS, the AUTHORITY did on the 19th day of April, 2010 vote to accept the solid waste and disposal service proposal submitted by the CONTRACTOR pursuant to a request for proposals issued by the AUTHORITY, to collect, remove and dispose of all residential solid waste within the City of Shawnee, and to perform other such work as may be incidental thereto, for the period from July 1, 2010 through June 30, 2020, inclusive; all of the expense of every nature or kind incurred in collection, removing and disposing of said solid waste to be paid by the CONTRACTOR.

NOW, THEREFORE, in consideration of the following mutual agreements and covenants herein contained, it is understood and agreed by and between CONTRACTOR and the AUTHORITY that:

- I. The term of this contract is from July 1, 2010 to June 30, 2020. Divided into ten (10) periods as follows:

Period 1-July 1, 2010 to June 30, 2011
Period 2-July 1, 2011 to June 30, 2012
Period 3-July 1, 2012 to June 30, 2013
Period 4-July 1, 2013 to June 30, 2014
Period 5-July 1, 2014 to June 30, 2015
Period 6-July 1, 2015 to June 30, 2016
Period 7-July 1, 2016 to June 30, 2017
Period 8-July 1, 2017 to June 30, 2018
Period 9-July 1, 2018 to June 30, 2019
Period 10-July 1, 2019 to June 30, 2020.

At the end of each period of the contract, the AUTHORITY has the sole discretion to continue the contract for the succeeding period of the contract or to discontinue the Contract with no penalty upon ninety (90) day written notice to the CONTRACTOR.

- II. The above referenced Proposal, the Request for Proposals, General and Special Conditions, Performance, Payment, and Guarantee Bonds are expressly made a part of

this contract by reference as though fully set out verbatim herein, and are attached hereto as Exhibit "A". Bonds will be for one year increments, renewed annually, and must be received 60 days prior to the next contract period.

II.A PROVIDED, HOWEVER, that for the contract period beginning July 1, 2011, AUTHORITY agrees to accept and CONTRACTOR agrees to provide the sum of One Hundred Seventy Five Thousand Dollars (\$175,000.00) for an Escrow Account to insure performance, in lieu of the Performance Bond referenced in Section 3 of the General and Specific Conditions. The Escrow Account shall be interest-bearing and shall be segregated from other AUTHORITY funds. Should CONTRACTOR well, truly and faithfully perform its duties under the contract, and fully indemnify the CITY and AUTHORITY from all costs and damages which it may suffer by reason of failure to do so, and reimburse and repay CITY and AUTHORITY all outlay and expense which they may incur in making good any fault, at the conclusion of the contract sum shall be returned to CONTRACTOR, less any amounts used by AUTHORITY or CITY as its costs for CONTRACTOR'S failure to perform hereunder .

II.B AUTHORITY reserves the right to determine from year to year the amount it will require in the Escrow Account as a part of the renewal of this Contract. If the amount is to be increased, AUTHORITY will give CONTRACTOR notice sixty days notice. Either party may determine to end the Escrow Account arrangement and return to the Performance Bond at an amount agreeable to AUTHORITY, not to exceed the original Performance Bond of One Million Five Hundred Thousand Dollars (\$1,500,000.00). Upon the posting of a bond, any amount remaining in the Escrow Account shall be returned to CONTRACTOR.

III. The AUTHORITY agrees to pay and the CONTRACTOR agrees to accept, in full consideration for the performance of the CONTRACTOR'S obligations, compensation to be computed as the unit prices set forth in the Schedule of Quotes, attached hereto as Exhibit "B". CONTRACTOR agrees that the rates contained in Exhibit B will not change for the entire term of the contract, subject to the following:

Fees which may be charged by the CONTRACTOR for the second and subsequent period of the contract will cover all paid services the AUTHORITY utilizes at that time and can be adjusted upward or downward to reflect changes in the cost of operations, as reflected by fluctuations in the Consumer Price Index for Urban Wage Earners and Clerical Workers, Expenditures Category, "Gasoline," as published by the U.S. Department of Labor, Bureau of Statistics, for the Regional area of Kansas City, Kansas/Missouri. It is expressly understood and agrees that the maximum annual increase shall not exceed 3.5 percent (3.5%). At the end of the last day of the last month of each contract period, (the "Rate Modification Date") the fees will be increased or decreased for the ensuing contract period in a percentage amount equal to ten percent (10) of the net percentage change of the Gasoline Index. All percentage changes are to be computed at the difference between the index value for the April reporting period for the prior year and the April reporting period of the contract period, divided by the index value for the previous year.

As soon as possible, prior to the Rate Modification Date, the CONTRACTOR shall present the AUTHORITY with a comparative statement, setting forth the Gasoline Index, the index value for the April reporting period of the previous year and the index value for the April reporting period of the current year the net percentage change; ten percent (10%) of the net percentage change in the Gasoline Index, and the increase or decrease in the unit prices which may be charged by the CONTRACTOR. On the Rate Modification Date and after the receipt of the comparative statement, the unit prices charged by the CONTRACTOR will be modified to reflect any such change until the next Rate Modification Date. It shall be the responsibility of the CONTRACTOR to notify the AUTHORITY annually regarding the Gasoline CPI, so the rates may be adjusted accordingly.

CONTRACTOR shall invoice AUTHORITY from solid waste totals that AUTHORITY supplies at the beginning of each month. Totals shall include numbers for regular polycarts, additional polycarts, small polycarts and any optional services chosen by AUTHORITY. CONTRACTOR shall invoice AUTHORITY within seven to ten days after receiving totals from AUTHORITY.

This contract constitutes the Basic Residential Services as set forth in the Request for Proposals and in the schedule of Quotes.

IV. The AUTHORITY will have the sole discretion as to which options contained in Exhibit "B" will be exercised and used for each period of the contract, (the only exception being the transfer station, it shall remain in effect during all periods of the Contract while it is in effect). AUTHORITY agrees to notify the CONTRACTOR in writing within forty-five (45) days of the start of a new period of the Contract which options the AUTHORITY selects for that period.

For the first period the AUTHORITY shall utilize option "k" with 2 individual locations, for subsequent periods the AUTHORITY shall have the option of choosing more or less locations.

- V. Should the AUTHORITY participate with the CONTRACTOR in any cost reduction programs, efficiency studies or studies of innovative methods or equipment or take any action that results in cost savings for the CONTRACTOR, the AUTHORITY shall receive decreases equal to a minimum of fifty percent (50%) of the savings realized by the CONTRACTOR.
- VI. Residential Unit Collection Routes shall be established by the CONTRACTOR. CONTRACTOR shall submit map designating the Residential Unit collection routes to the AUTHORITY for its approval, which approval shall not be unreasonably withheld. The CONTRACTOR may from time to time, propose to the AUTHORITY, for approval, changes in routes or days of collection affecting Residential Units, which approval shall not be unreasonably withheld. Upon the

AUTHORITY's approval of the proposed changes, the AUTHORITY shall promptly give written or published notice to the affected Residential Units.

- VII. The CONTRACTOR shall provide an adequate number of vehicles for regular collection services. All vehicles, bins and other equipment shall be kept in good repair, appearance, and in sanitary condition all times. Each vehicle shall have clearly visible on each side, the identity and telephone number of the CONTRACTOR.
- VIII. All Refuse hauled by the CONTRACTOR shall be so contained, tied or enclosed to prevent leaking, spillage, or blowing.
- IX. Title to Refuse shall pass to the CONTRACTOR when placed in CONTRACTOR's collection vehicle, removed by the CONTRACTOR from a bin or container, or removed by CONTRACTOR from the customer's premises, whichever last occurs.
- X. All complaints shall be made directly to the City and CONTRACTOR shall be given prompt notice. In the case of alleged missed scheduled collections, the CONTRACTOR shall investigate and, if such allegations are verified, shall arrange for the collection of the refuse not collected within twenty-four (24) business hours after the complaint is received.
- XI. All dealings, contact, etc., between the CONTRACTOR and the City shall be directed by the CONTRACTOR to the staff person designated by the City.
- XII. Holidays - - The following shall be Holidays for purposes of the Contract:
New Year's Day
Independence Day
Thanksgiving Day
Christmas Day
- XIII. CONTRACTOR agrees to construct a "new" transfer station at a mutually agreed site in the City of Shawnee. CONTRACTOR is to supply the City with building plans and specifications no later than six (6) months after receiving notice of the award of the Contract. All plans and specifications are subject to inspection and approval by both the City Planning Department and Management. All international and building codes and regulations applicable to the construction of the station are to be followed. Any and all land use regulations shall apply. CONTRACTOR will have all required DEQ permits within six (6) months (or as soon as possible) of the Contract being awarded. The transfer station will be completed within 1 year after receiving permit.

Prior to completion of the transfer station the CONTRACTOR will provide a temporary station to receive solid waste and recyclables from the citizens of the City of Shawnee, which station shall be capable of receiving solid, bulk waste, and recyclables dropped off by citizens. CONTRACTOR will also construct an "ECO Center" adjacent to the transfer station for citizens to use for recycling or disposing of waste.

At the end of fifteen (15) years of the commencement of the first period of the Contract the transfer station, ECO Center and the property it is located on, will become a "gift" and at the AUTHORITY'S discretion can become the property of the City of Shawnee and the CONTRACTOR agrees to transfer ownership of those facilities to the City of Shawnee regardless of the status of solid waste collection between the AUTHORITY and the CONTRACTOR.(The only requirement is that the AUTHORITY shall vest a minimum of 5 years of service with CONTRACTOR in order to receive the "gift" at the end of the 15 year period. If the AUTHORITY does not renew at any time in the 15-year period Shawnee residents would have to pay a fee in order to utilize the transfer station.)

- XIV. CONTRACTOR shall conform to all laws, ordinances, rules and regulations applicable to this contract. Any DEQ violations are to be reported to the Utility Director within thirty (30) days of the CONTRACTOR being notified thereof. The CONTRACTOR shall obtain all licenses and permits and promptly pay all taxes required by the City and by the State.
- XV. CONTRACTOR shall indemnify, save harmless, and exempt the City of Shawnee and the AUTHORITY, its officers, agents, servants, and employees from and against any and all suits or, actions of whatever kind or character made upon or brought against the City of Shawnee or the AUTHORITY, its officers, employees or agents, for or on account of any injuries or damage received or sustained by any party or parties by or from the acts of said CONTRACTOR or its servants, agents, employees and subcontractors in doing the work and rendering the services herein contracted for, or by or in consequence of any negligence in general operations, operating of equipment or any improper equipment or material used, or by or on account of any act or omission of CONTRACTOR, or servants, agents, employees or subcontractors and also from all claims of damage for infringement of any patent in fulfilling this contract. This indemnity shall include attorney's fees and costs and all other costs and expenses incurred in the defense of any suit.
- XVI. CONTRACTOR shall not assign this contract to another party, company, partnership, or corporation without specific approval in writing from the AUTHORITY.
- XVII. If CONTRACTOR changes ownership, name, etc., then the AUTHORITY shall have the option to re-bid the contract immediately if AUTHORITY so desires, and give immediate notice of its intent to cancel said Agreement.

XVIII. CONTRACTOR shall pay all just claims due for the payment of all employees and mechanics for labor that shall be performed, for the payment of all material and equipment furnished, and for the payment of material, equipment and facilities rented which is actually used or rented in the performance of this contract.

CONTRACTOR shall submit evidence satisfactory to the AUTHORITY that all payrolls, equipment, materials or facility bills, and other indebtedness pertaining to the performance of this contract have been paid.

XIX. In the event that it shall become impossible or unlawful for CONTRACTOR to continue the performance of this contract by reason of an Act of God or an Act of the Legislator hereinafter passed, or by Act of the AUTHORITY or by reason of a final order by a Court of Record in proceedings not instituted by or acquiesced in by the CONTRACTOR, directly or indirectly, and no due to any negligence upon the CONTRACTOR, the CONTRACTOR shall not be liable for damage for consequences arising solely out of such impossibility.

XX. This contract shall not constitute a franchise or an exclusive right to collect solid waste within the corporate limits of the City of Shawnee.

XXI. This contract shall be governed by the laws of the State of Oklahoma both as to interpretation and performance.

XXII. This contract constitutes the entire agreement and understanding between the parties hereto and shall not be modified, altered, changed or amended in any respect unless in writing and signed by both parties hereto.

IN WITNESS WHEREOF, we the contacting parties, by our duly authorized agents, hereby affix our signatures and seals at Shawnee, Oklahoma this _____ day of _____, 2011.

AUTHORITY

By: _____
BRIAN McDOUGAL
CITY MANAGER

ATTEST:

PHYLLIS LOFTIS,
AUTHORITY SECRETARY

CENTRAL DISPOSAL, LLC

By: _____
PRESIDENT

ATTEST:

Secretary, Central Diposal, LLC
(Seal)

STATE OF OKLAHOMA)
) ss.
COUNTY OF POTTAWATOMIE)

Before me, the undersigned Notary Public, in and for said county and state, on this____day of _____, 2010, personally appeared _____, President of Central Disposal, LLC, a limited liability company, to me known to be the identical person who executed the within and foregoing Agreement for the uses and purposes therein set forth.

NOTARY PUBLIC

My Commission expires: _____

Commission No.: _____

Regular Board of Commissioners

6. a.

Meeting Date: 07/05/2011

Bid Open Auditorium Heat and Air

Submitted By: Donna Mayo, Administration

Department: Administration

Information

Title of Item for Agenda

Auditorium Heat and Air Project Design/Build RFP(Open)

Attachments

RFP Heat & Air Auditorium

REQUEST FOR PROPOSAL

Proposals are to be submitted by 4 pm July 5, 2011 to the City of Shawnee, 16 W 9th Street, Shawnee, Ok 74801 or PO Box 1448, Shawnee, Ok 74802 for;

Auditorium Heat and Air Project Design/Build

There is a mandatory pre-bid conference set for 2 pm Thursday June 16, 2011. We will meet in the front lobby of the Auditorium Bldg at 400 N. Bell Street. At least one representative of each Prime contractor must attend. Proposals will only be accepted from firms who attended the Mandatory Pre-Bid. Prime Contractors are encouraged to invite their subcontractors (such as electrical/plumbing/structural) to attend the pre-bid conference. Complete bid packages can be picked up at the Fairview Cemetery Office at 1400 N. Center Street.

Each bid shall be filed in a sealed envelope. On the front of each envelope shall be written the following words to the left of the address:

BID – Auditorium Heat and Air Project Design/Build July 5, 2011

The ORIGINAL bid shall be filed with the City Clerk of the City of Shawnee, together with a sworn non-collusion affidavit in writing that the bidder has not entered into any agreement, expressed or implied, with any other bidder, or bidders, for the purpose of limiting the bid, or bidders or parcel out to any bidder, or bidders or any other persons, any part of the contract or subject matter of the bid.

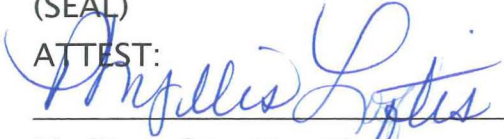
Bids will be opened and considered by the Board of City Commissioners at a Public Meeting in the City Hall Commission Chambers, Shawnee, Oklahoma, at 6:30 p.m., Tuesday, July 5, 2011.

The City of Shawnee reserves the right to reject any or all bids.



(SEAL)

ATTEST:


Phyllis Loftis, City Clerk

CITY OF SHAWNEE, A Municipal
Corporation

By: _____

Brian E. McDougal, City Manager