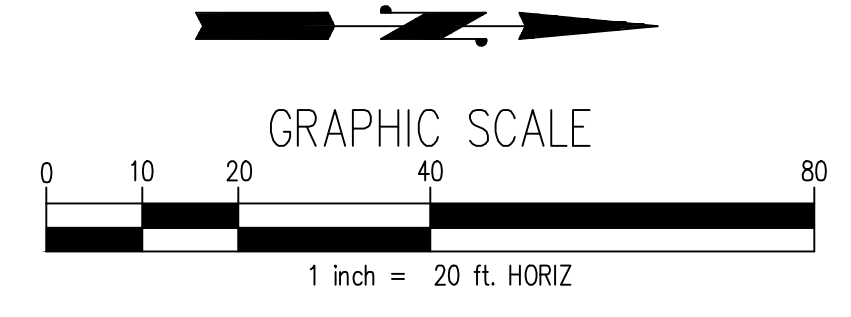


MATCH LINE - STA 19+52.11 - SEE SHEET 8

PLAN
SCALE: 1" = 20'



- KEY NOTES:**
- ① KEEP CLEAR MARKING - 6-INCH SOLID WHITE BOX WITH 6-INCH SOLID WHITE CROSSHATCH THERMOPLASTIC LINES AT 3 FEET ON CENTER
 - ② 12" THERMOPLASTIC STOP BAR
 - ③ 8' THERMOPLASTIC HIGH LETTER MARKING "STOP"
 - ④ 4" WIDE THERMOPLASTIC SOLID WHITE STRIPING
 - ⑤ 8' THERMOPLASTIC HIGH LETTER MARKING "TRUCKS"
 - ⑥ 8' THERMOPLASTIC HIGH LETTER MARKING "AUTOS"
 - ⑦ THERMOPLASTIC STRAIGHT ARROW (1/11)
 - ⑧ THERMOPLASTIC STRAIGHT AND RIGHT TURN ARROW COMBINATION (2/11)
 - ⑨ INSTALL RELOCATED STOP SIGN
 - ⑩ TRUCK/AUTO LANE DELINEATION SIGN (3/11)
 - ⑪ STOP AHEAD WARNING SIGN PER MUTCD
 - ⑫ LANE CONTROL SIGN (6/11)
 - ⑬ 4" WIDE THERMOPLASTIC DOUBLE YELLOW STRIPING
 - ⑭ 4" WIDE THERMOPLASTIC WHITE SKIP STRIPING

- NOTES:**
1. RESTORATION SHALL BE IN ACCORDANCE WITH THE CITY OF TACOMA POLICY AS ADOPTED JUNE 2, 2009. THE CITY INSPECTOR SHALL HAVE FINAL SAY FOR LIMITS OF RESTORATION.

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Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

CALL 48 HOURS
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NO	REVISION	DATE	APPD

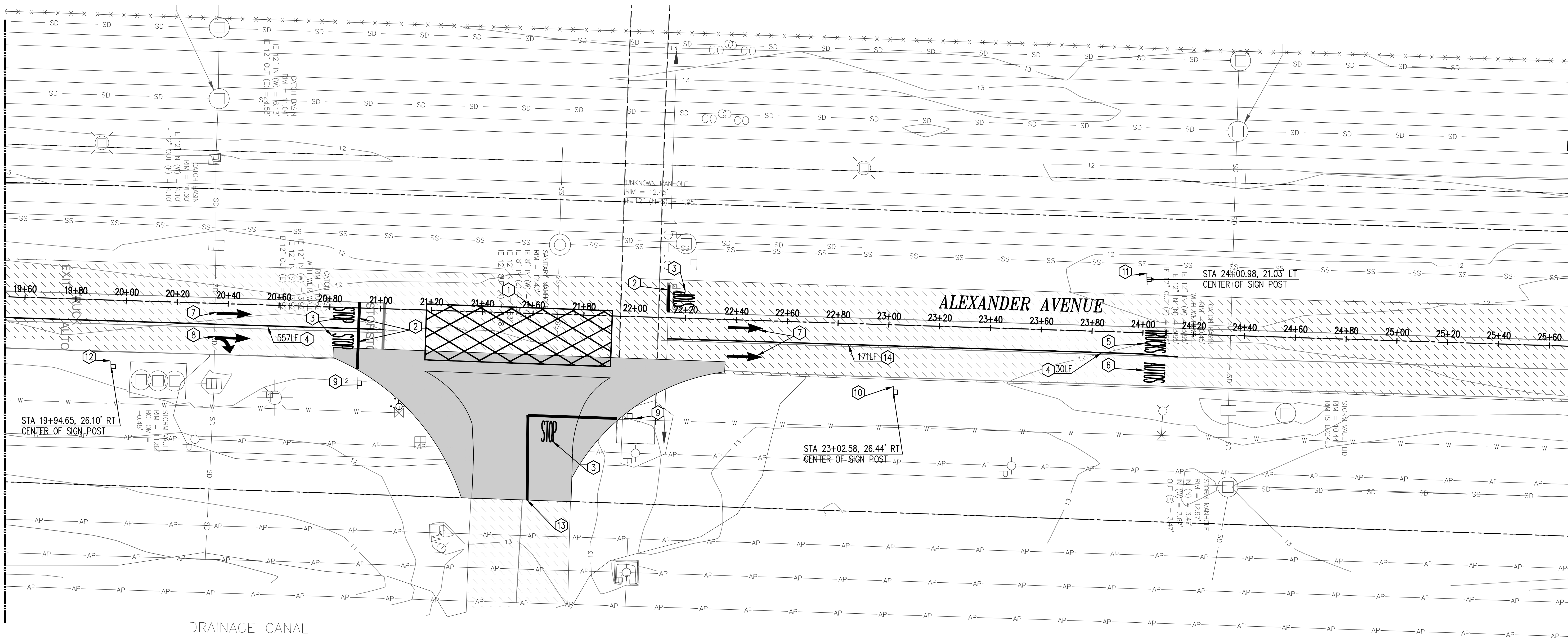
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	5/16/2016	AS NOTED
DESIGNED	CHECKED	
SWK	SWK	
DATE	DRAWN	PROJECT NAME
	SWK	
FIELD BOOKS	DRAWING NAME	



CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS
ALEXANDER AVE DRIVEWAY IMPROVEMENTS
4215 SR 509
CHANNELIZATION AND SIGNAGE PLAN

60000041488
SHEET NO.
SHEET 8 OF 12

MATCH LINE - STA 19+52.11 - SEE SHEET 7



PLAN

SCALE: 1" = 20'

NOTES:

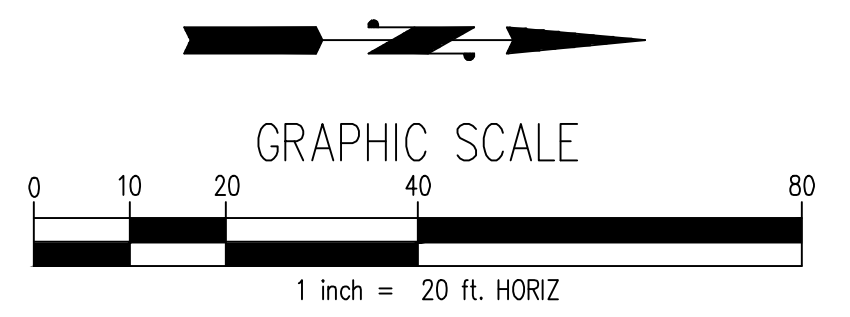
- RESTORATION SHALL BE IN ACCORDANCE WITH THE CITY OF TACOMA POLICY AS ADOPTED JUNE 2, 2009. THE CITY INSPECTOR SHALL HAVE FINAL SAY FOR LIMITS OF RESTORATION.

KEY NOTES:

- 1 KEEP CLEAR MARKING - 6-INCH SOLID WHITE BOX WITH 6-INCH SOLID WHITE CROSSHATCH THERMOPLASTIC LINES AT 3 FEET ON CENTER
- 2 12" THERMOPLASTIC STOP BAR
- 3 8' THERMOPLASTIC HIGH LETTER MARKING "STOP"
- 4 4" WIDE THERMOPLASTIC SOLID WHITE STRIPING
- 5 8' THERMOPLASTIC HIGH LETTER MARKING "TRUCKS"
- 6 8' THERMOPLASTIC HIGH LETTER MARKING "AUTOS"
- 7 THERMOPLASTIC STRAIGHT ARROW (1/11)
- 8 THERMOPLASTIC STRAIGHT AND RIGHT TURN ARROW COMBINATION (2/11)
- 9 INSTALL RELOCATED STOP SIGN

KEY NOTES:

- 10 TRUCK/AUTO LANE DELINEATION SIGN (3/11)
- 11 STOP AHEAD WARNING SIGN PER MUTCD
- 12 LANE CONTROL SIGN (6/11)
- 13 4" WIDE THERMOPLASTIC DOUBLE YELLOW STRIPING
- 14 4" WIDE THERMOPLASTIC WHITE SKIP STRIPING



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FINAL CONSTRUCTION CHECKED	DATE	SCALE
	5/16/2016	AS NOTED
DESIGNED	CHECKED	
SWK	SWK	
DRAWN	PROJECT NAME	
SWK	ALEXANDER AVE DRIVEWAY IMPROVEMENTS	
FIELD BOOKS	DRAWING NAME	

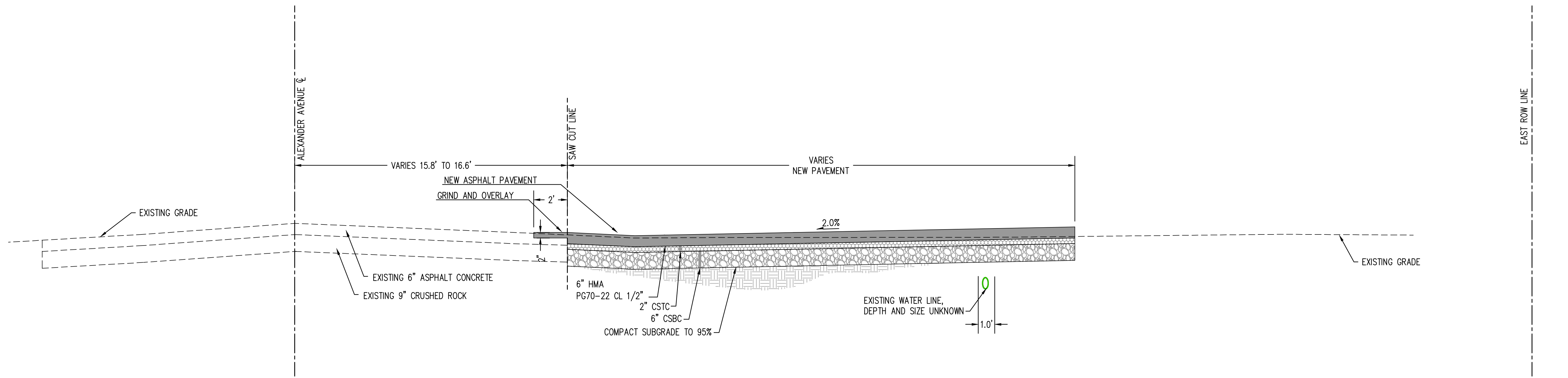


CITY OF TACOMA
 DEPARTMENT OF PUBLIC WORKS
 ALEXANDER AVE DRIVEWAY IMPROVEMENTS
 4215 SR 509
 CHANNELIZATION AND SIGNAGE PLAN

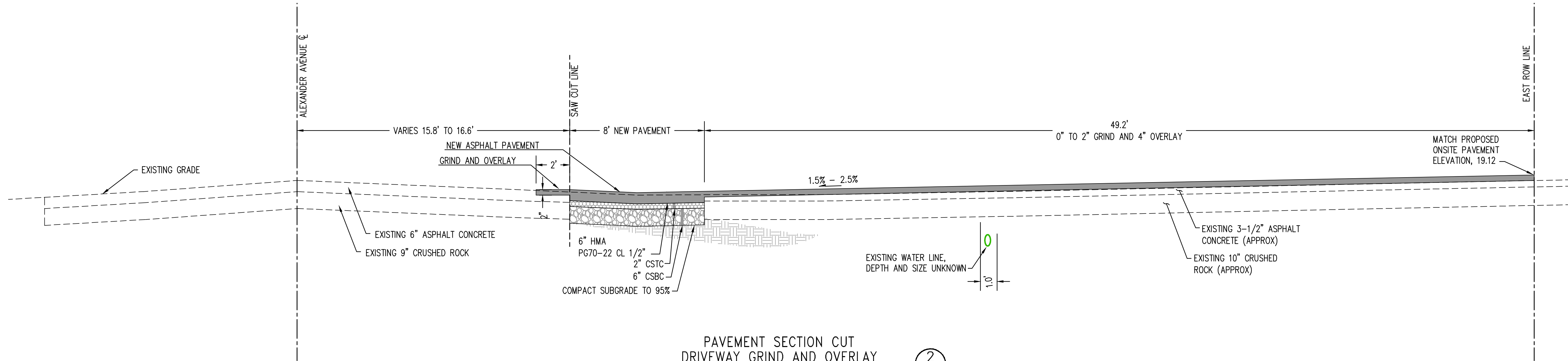
60000041488

SHEET NO.

SHEET 9 OF 12



PAVEMENT SECTION CUT
NEW DRIVEWAY AREA
SCALE: NTS



PAVEMENT SECTION CUT
DRIVEWAY GRIND AND OVERLAY
SCALE: NTS

- NOTES:
- RESTORATION SHALL BE IN ACCORDANCE WITH THE CITY OF TACOMA POLICY AS ADOPTED JUNE 2, 2009. THE CITY INSPECTOR SHALL HAVE FINAL SAY FOR LIMITS OF RESTORATION.

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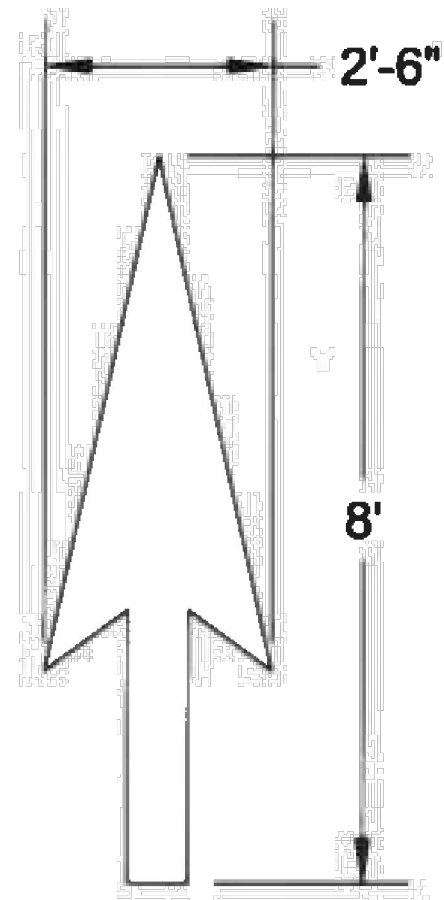
NO	REVISION	DATE	APPD

FINAL CONSTRUCTION CHECKED	DATE	SCALE
	5/16/2016	AS NOTED
DESIGNED	CHECKED	
SWK	SWK	
DATE	DRAWN	PROJECT NAME
	SWK	
FIELD BOOKS	DRAWING NAME	



CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS
ALEXANDER AVE DRIVEWAY IMPROVEMENTS
4215 SR 509
DRIVEWAY SECTIONS

60000041488
SHEET NO.
SHEET 10 OF 12

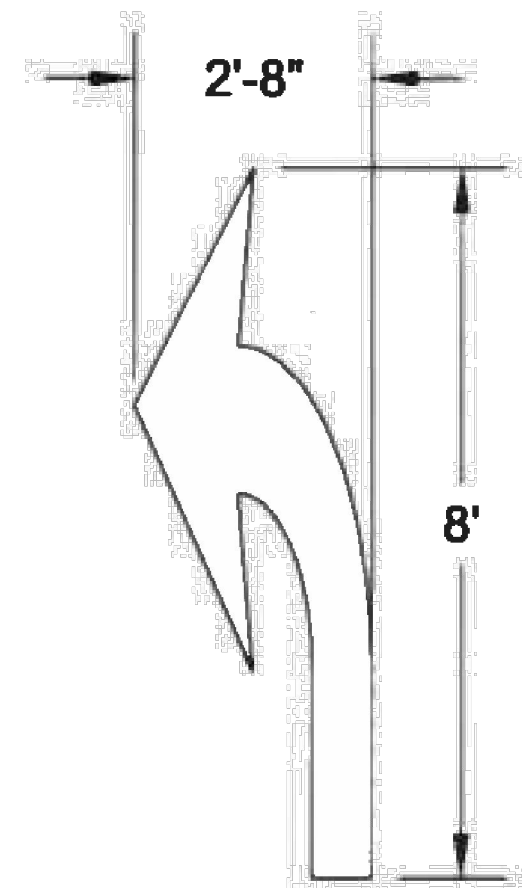


NOTE:
1. TRAFFIC ARROW PER CITY OF TACOMA STANDARD DETAIL CH-10 PAVEMENT WORDS AND ARROWS.

TRAFFIC ARROW DETAIL

SCALE: NTS

1
9

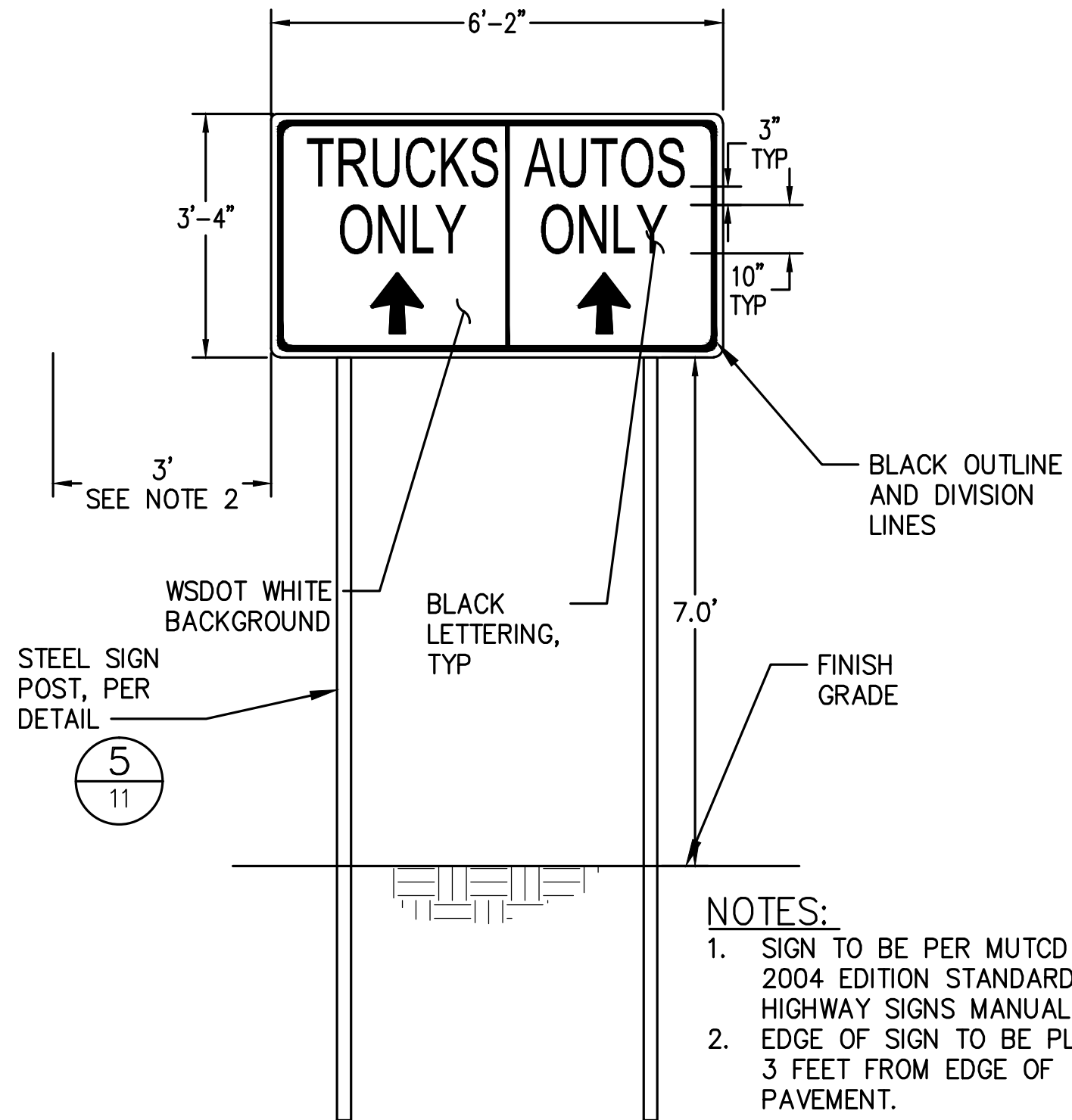


NOTE:
1. TRAFFIC ARROW PER CITY OF TACOMA STANDARD DETAIL CH-10 PAVEMENT WORDS AND ARROWS.
2. ARROWS MAY BE MIRRORED ABOUT THEIR CENTERLINE AS APPLICABLE TO DESIGN.

TRAFFIC TURN ARROW DETAIL

SCALE: NTS

2
9

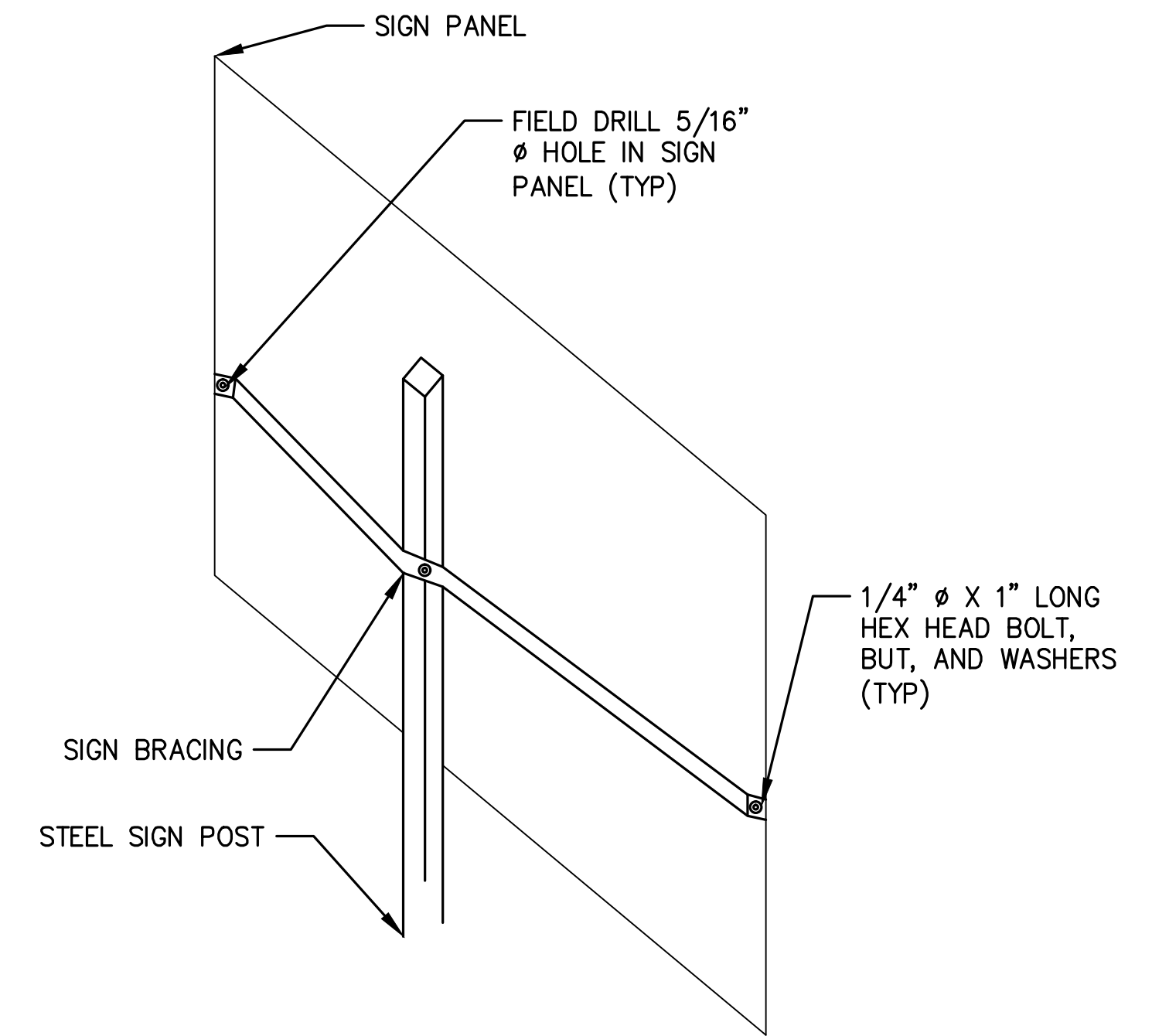


NOTES:
1. SIGN TO BE PER MUTCD AND 2004 EDITION STANDARD HIGHWAY SIGNS MANUAL.
2. EDGE OF SIGN TO BE PLACED 3 FEET FROM EDGE OF PAVEMENT.

AUTO/TRUCK DELINEATION SIGN DETAIL

SCALE: NTS

3
9

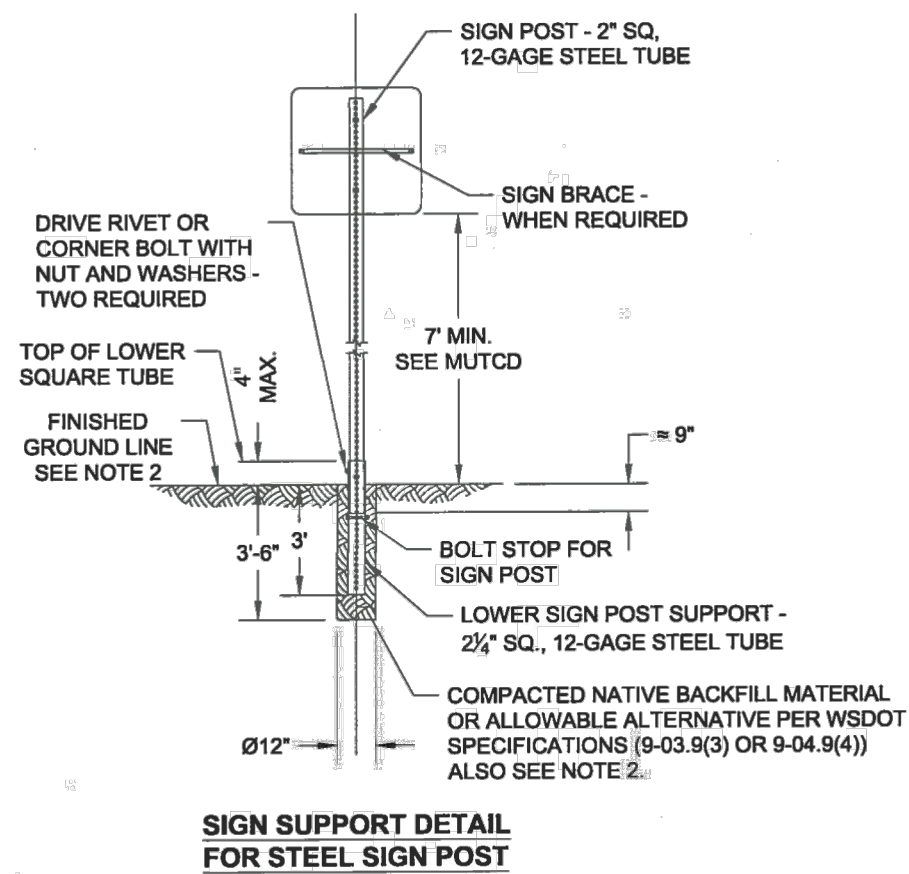


SIGN BRACING DETAIL

SCALE: NTS

4
9

NOTES:
1. Surface mounting of sign posts, especially within traffic islands or medians, is only allowable with special authorization from the city's traffic engineering group. (Exception: Surface mounting of flexible post object markers within islands or medians is permitted).
2. If finished ground line is a hard surface, then compacted native backfill material shall be concrete with the top of foundation being smooth, dense, and uniform to finished ground line.



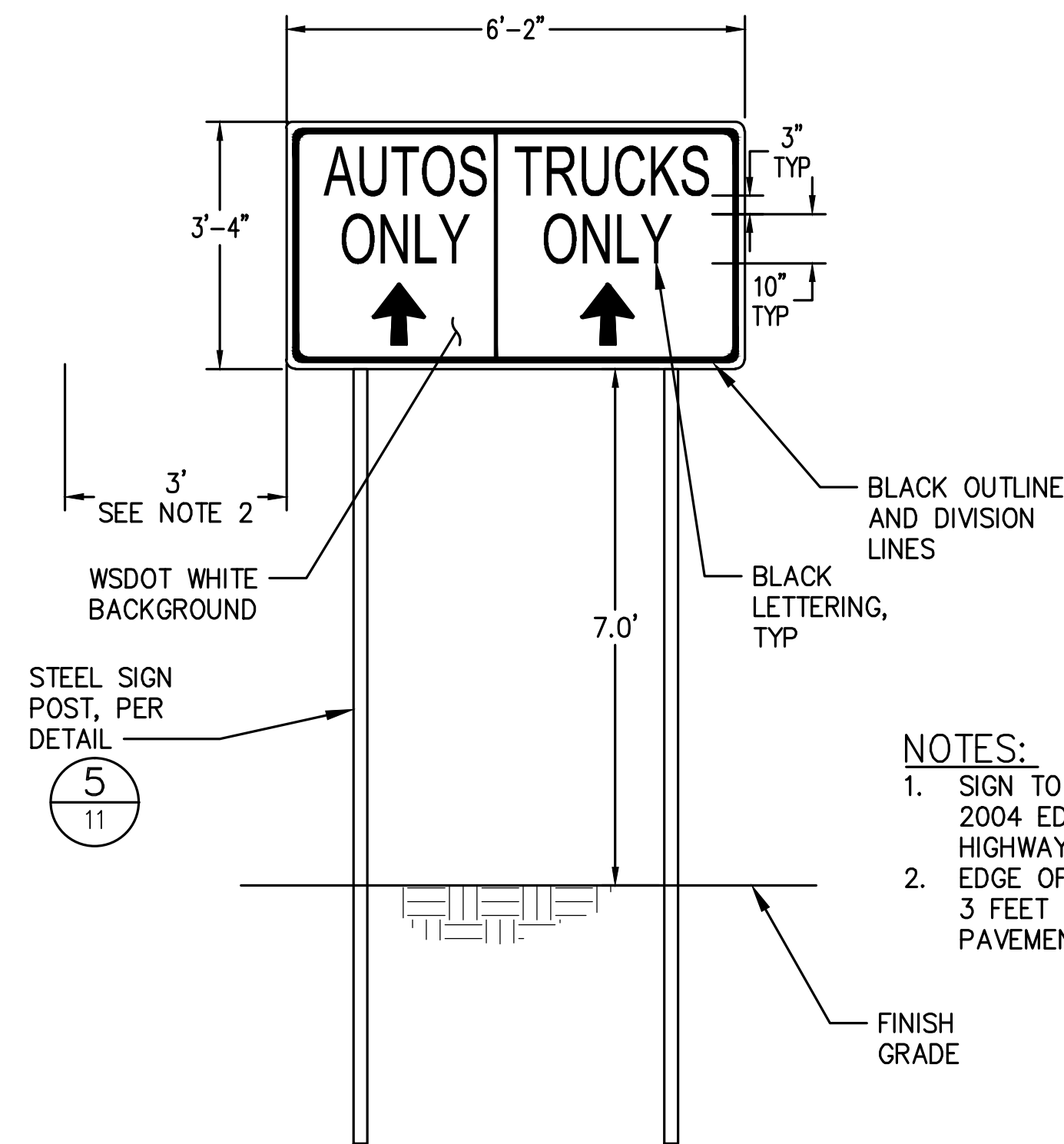
SIGN SUPPORT DETAIL FOR STEEL SIGN POST

NOTE:
1. SIGN POST PER CITY OF TACOMA STANDARD DETAIL SU-34 SIGN POST INSTALLATION.

SIGN POST DETAIL

SCALE: NTS

5
9



NOTES:
1. SIGN TO BE PER MUTCD AND 2004 EDITION STANDARD HIGHWAY SIGNS MANUAL.
2. EDGE OF SIGN TO BE PLACED 3 FEET FROM EDGE OF PAVEMENT.

LANE CONTROL SIGN DETAIL

SCALE: NTS

6
11

RIGHT-OF-WAY PERMITTING GENERAL NOTES

GENERAL

- A. The following special provisions are to be used in conjunction with the City of Tacoma Special Provisions, City of Tacoma Standard Plans and City of Tacoma Right-of-Way Design Manual, "2014 Standard Specifications for Road, Bridge and Municipal Construction" and "Standard Plans for Road, Bridge and Municipal Construction" as prepared by the Washington State Department of Transportation (WSDOT).
- B. Any inconsistency between these work order drawings and the 2014 Standard Specifications or the WSDOT Standard Plans shall be resolved by the following order of precedence (e.g., 1 presiding over 2, 3, and so forth):
 1. Approved Work Order Drawings
 2. City of Tacoma Special Provisions, including APWA General Special Provisions, as applicable
 3. City of Tacoma Right-of-Way Design Manual
 4. 2014 Standard Specifications
 5. City of Tacoma Standard Plans
 6. WSDOT Standard Plans
- C. Any revisions to these plans must be reviewed and approved by the City of Tacoma prior to any implementation in the field.
- D. Contractors shall familiarize themselves with the site and shall bring any discrepancies to the attention of the Engineer prior to undertaking the affected work.
- E. Any discrepancy in these drawings, specifications, these notes, and the site conditions shall be reported to the Engineer, who shall correct such discrepancy in writing after reviewing any changes. Any work done by the Contractor after the discovery of such discrepancy shall be done at the Contractor's risk. The Contractor shall verify and coordinate the dimensions among all drawings prior to proceeding with any work.
- F. A pre-construction meeting shall be held at the City of Tacoma with the applicant, contractor, and City Inspectors prior to issuance of a permit.

ADDITIONAL PERMITS

- A. Separate permits are required for on-site work including all retaining walls, grading, and erosion control. Adherence to all conditions of these permits is required as a part of this plan.
- B. Separate permits are required for sidewalk installation as well as curb and gutter removal and driveway construction when constructed at building permit stage.
- C. Separate storm and sanitary sewer connection permits are required for connections to the wastewater or stormwater systems.

UTILITIES

- A. The existing underground utilities shown hereon are based upon existing record drawings and are not guaranteed to be accurate, nor all-inclusive.
- B. All utilities must be verified prior to construction. If the project requires any excavation, the developer/contractor is required to call the Utility Underground Location Center at (800) 424-5555 at least two days before starting such excavation in accordance with RCW 19.122.
- C. It shall be the Contractor's responsibility to protect, in place, all utilities and/or structures whether shown or not shown on this plan. Damage due to the Contractor's operations shall be repaired at the Contractor's expense.

EXCAVATION

- A. If workers enter any trench or other excavation four feet or more in depth that does not meet the open pit requirements of Section 2-09.3(3)B, it shall be shored and cribbed. All trench safety systems shall meet the requirements of the Washington Industrial Safety and Health Act, Chapter 49.17 RCW. The Contractor alone shall be responsible for all worker safety, and neither the City of Tacoma nor the Engineer of record assumes any responsibility.

PAVEMENT PREPARATION / RESTORATION

- A. Additional removal and replacement of pavement may be required to provide proper transition/crown as directed by the City of Tacoma Inspector in the field.
- B. The street sections shown on this plan are designed to be placed upon a firm and unyielding base.
- C. Subgrade compaction shall be tested by a professional geotechnical consultant prior to placing base material.
- D. Pavement restoration shall be constructed in accordance with the City of Tacoma Restoration policy and applicable Standard Plans.
- E. All permanent traffic channelization, such as but not limited to legends, raised pavement markings, paint, and signage, shall be restored to current Tacoma Standards.
- F. Final restoration limits shall be determined in the field by the City of Tacoma Inspector.
- G. Pavement Preparation and Restoration shall meet all applicable requirements of City of Tacoma Right-of-Way Design Manual Chapter 4 Sections 5.4 and 5.5.

PERMEABLE PAVEMENTS

- A. Permeable Pavements including pavers, porous asphalt and pervious concrete may be approved for use within the right of way.
- B. Installation shall be in accordance with the approved permit documents and all applicable requirements as outlined in the documents referenced in the GENERAL section above.
- C. Permeable pavers shall be designed and installed in accordance with manufacturer's recommendations, per approved permit drawings and the requirements of the City of Tacoma Right-of-Way Design Manual.

HOT MIX ASPHALT

- A. Standard hot mix asphalt shall be HMA CL 1/2 Inch PG 64-22.
- B. Porous asphalt shall be Class 2^{1/2} PG 70-22ER polymer modified or higher grade.
- C. Mix design shall be based on Standard Plan PD-01-Pavement Design Standards and PD-02 Pavement Design Worksheet.
- D. Section 5-04.3(8)A 'Acceptance Sampling and Testing' of the Standard Specifications is deleted.
- E. All standard hot mix asphalt shall be compacted to a minimum of 92 percent of the maximum density as determined by AASHTO T209. All standard hot mix asphalt utilized shall be considered compactable. The level of compaction attained will be determined as the average of not less than 5 nuclear density gauge tests taken on the day the mix is placed (after completion of the finish rolling) at randomly selected locations within each lot. The quantity represented by each lot will be no greater than a single day's production or approximately 400 tons, whichever is less.
- F. All testing results shall be provided to the City within 48 hours of the test.
- G. Control lots not meeting the minimum density standard shall be removed and replaced with satisfactory material.
- H. In addition to the randomly selected locations for test of the control lot, the City Inspector reserves the right to test any area which appears defective and to require further compaction of areas that fall below acceptable density readings. These additional tests shall not impact the compaction evaluation of the entire control lot.
- I. Hot mix asphalt pavement shall not be placed on any traveled way between October 1 and April 1 without written approval from a Science & Engineering Assistant Division Manager.
- J. No traffic shall be allowed on any newly placed pavement without the approval of the City Inspector.

CONCRETE

- A. Concrete pavement mix design shall be based on Standard Plan PD-01-Pavement Design Standards.
- B. Cold Weather Concrete Work. The following requirements for placing concrete shall be in effect from November 1 to April 1:
 1. The Engineer shall be notified at least 24 hours prior to any concrete placement.
 2. Weather permitting, all concrete placement shall be completed no later than 2:00 p.m. each day.
 3. Where forms have been placed and the subgrade has been subjected to severe frost, no concrete shall be placed until the ground is completely thawed. At that time, the forms shall be adjusted and subgrade repaired as determined by the Engineer.
- C. Curing of concrete shall be in accordance with Section 5-05.3(13) of the Standard Specifications.
- D. The slump for standard concrete used for sidewalks shall not exceed four inches +/- one inch.
- E. Sidewalks and curb ramps shall be constructed in accordance with ADA Standards for Accessible Design, 28 CFR, Part 35 and as supplemented by the Public Works Right of Way Accessibility Guidelines (PROWAG).

SANITARY AND STORM SEWERS

- A. 7-08.3(2)G Joining of Dissimilar Pipe: Dissimilar pipe shall be joined by use of rigid couplings manufactured by Romac Industries, Inc., or City of Tacoma approved equal.
- B. 7-08.3(2)F Plugs and Connections: Rigid Couplings, manufactured by Romac Industries, Inc., or City of Tacoma approved equal, shall be used at any pipe joint in which bell and spigot or fused joints are not used. Flexible couplings are not permitted.
- C. Section 7-04 of the Standard Specification is deleted. Storm sewers shall meet all the requirements of sanitary sewers.
- D. Sewers and appurtenances shall be cleaned and tested after backfilling by either exfiltration or low-pressure air method at the option of the Contractor, except where the ground water table is such that the Engineer may require the infiltration test.
- E. All wastewater and stormwater pipes shall be video inspected by City Forces prior to paving where paving occurs over sewers. All other sewers will be video inspected prior to final acceptance.
- F. All abandoned pipes encountered during construction and new stormwater and wastewater stub outs shall be sealed with a watertight pipe plug.
- G. All frames and grates for standard catch basin inlets on this project shall be "vaned" type and shall conform to that shown on WSDOT Standard Plan No. B-30.30-01 and B-30.40-01.
- H. Where existing catch basins are modified, grates may be required to be replaced with vaned grates. Environmental Services will make the final determination based on the condition of the existing grate and structure.
- I. Recycled concrete shall not be used for pipe zone backfill.
- J. New connections to brick manholes may be allowed on a case by case basis. Manhole replacement may be required by the Environmental Services Department based upon the condition of the existing manhole.

MISCELLANEOUS

- A. Any fence or structure replaced and/or relocated shall be maintained to remain functional.
- B. Independent quality assurance sampling and testing will be provided by a certified independent laboratory for all improvements within the right-of-way. All special inspection reports shall be forwarded to the Site Development Group on a monthly basis, and / or as requested by the City of Tacoma inspector.
- C. The Contractor shall only use those hydrants designated by the agency in charge of water distribution and in strict accordance with its requirements for hydrant use, Water applied by the Contractor shall not be from residential sources.

GRADING, EXCAVATION AND EROSION CONTROL NOTES

- A. All work is to be done in accordance with the approved grading plan, soils report, the most current WSDOT Standard Specifications For Road, Bridge And Municipal Construction and the current City of Tacoma Stormwater Management Manual.
- B. When construction operations are such that debris from the work is deposited on the streets, the Contractor shall immediately remove any deposits or debris which may accumulate on the roadway surface. If the Contractor fails to keep the streets free from deposits and debris resulting from the work, the Contractor shall, upon order of the City of Tacoma Inspector, provide facilities for, and remove all clay, dirt, or other deposits from the tires or between wheels before trucks or other equipment will be allowed to travel over paved streets. Should the Contractor fail or refuse to clean the streets in question, or the trucks or equipment in question, the City of Tacoma Inspector may order the work suspended at the Contractor's risk until compliance with the Contractor's obligations is assured, or the City of Tacoma Inspector may order the streets in question cleaned by others and such costs incurred by the City in achieving compliance with these requirements, including cleaning of the streets, shall be deducted from the work order account.
- C. The Contractor shall protect existing drainage structures using acceptable methods and materials as shown on this plan. If the methods and materials as shown on this plan are not adequate, the City of Tacoma Inspector may require additional/alternative methods for erosion control and/or protection of existing drainage structures. Additional or alternative methods shall be submitted by the design engineer and accepted by the City of Tacoma Inspector. Any damage caused to the City of Tacoma stormwater system as a result of the work outlined on this plan shall be the sole responsibility of the Contractor. Resolving said damage may include, but not be limited to, the cleaning of the drainage system in question by the Contractor.
- D. Watering provisions when applicable must be in place to prevent dust from becoming air borne. Violation of this condition will result in a stop work order until corrected.
- E. Fill that will support a street section or other structures shall be placed under the inspection of a Washington State licensed Geotechnical Engineer. Soil to be placed shall be tested and compacted to 95 percent of its maximum density. Engineer shall document existing site conditions, soil and its placement and allowable bearing capacity submitted. Standard requirements for cuts and fill are contained in the WSDOT Standard Specifications For Road, Bridges, and Municipal Construction.
- F. A stormwater pollution prevention plan (SWPPP) is required for all work order projects. The plan must be in accordance with the current City Tacoma Stormwater Management Manual.

HYDROSEEDING

- A. All areas that are cleared and grubbed, graded, excavated or filled are subject to stabilization. Any of these areas that are left unpaved or unlandscaped shall be hydrosseeded or otherwise fully stabilized under the direction and approval of the Construction Inspector.
- B. Hydrosseeding may occur only during the periods of April 1 through May 31 or September 1 through October 15. Hydrosseeding may be allowed during the months of June through August if irrigation is provided.
- C. Monitor and maintain hydrosseeded areas throughout the winter wet season to ensure that no erosion occurs.

EROSION CONTROL MEASURES

- A. Minimum Erosion Control measures shall include:
 1. Construction entrance.
 2. Perimeter erosion/sedimentation control.
 3. Protection of catch basins.
 4. Stabilization of exposed soils.
- B. All erosion control shall be in place prior to clearing. The contractor shall call the City of Tacoma Inspector for initial erosion control inspection prior to start of work, per item F. below.
- C. Erosion control measures shall be maintained at all times to the approval of the City of Tacoma Inspector.
- D. Should temporary erosion and sedimentation control measures, as shown on plans become inadequate, the contractor shall install facilities as necessary to protect adjacent properties and the City of Tacoma drainage system, meeting approval of the City of Tacoma Inspector.
- E. No permits to perform grading, excavation, or filling during the period from October 1st through March 31 shall be issued. EXCEPTION: The City may approve a grading, excavation, or filling plan prepared by a licensed Civil or Geotechnical Engineer which specifically addresses the winter rain season and the associated erosion problems, and issue a permit based on such plan.
- F. Call for inspection of the City of Tacoma Inspector upon completion of:
 1. Staking of clearing limits.
 2. Installation of erosion control and prior to site grading.
 3. Prior to removal of erosion control devices.
- G. All material removed from site shall be placed only at a permitted site. Verify location of destination of material prior to exportation.
- H. Traffic control provisions as approved by the City Traffic Engineer shall be adhered to at all times.
- I. Trees to be removed shall be clearly marked for removal. Trees to be saved shall be fenced with barricade fence at the drip line (outer edge of tree branches) to keep construction vehicles from compacting root zone and killing trees. This fencing shall be maintained until construction ends.
- J. Tree protection measures to be installed with Initial TESC measures and shall be maintained throughout the duration of site work. Refer to City of Tacoma Std. Plans LS-08 through LS-11.

RECORD DRAWINGS CRITERIA FOR ACCEPTANCE OF ALL PRIVATE WORK ORDERS

- A. All revisions to the approved plans must be approved by the City of Tacoma prior to implementation of the changes.
- B. A determination at the time of proposal shall be made whether the revision can be addressed with red line drawings submitted as a part of the record drawings or will require formal submission for approval.
- C. Record drawings shall show the station, offset, centerline and gutter flowline elevations, to nearest 0.01 foot, for all horizontal and vertical roadway alignment changes, at the intersection end of radius points and at the beginning and end of new paving.
- D. Record drawings shall show the station, offset, invert, and rim elevations to the nearest 0.01 foot for all stormwater and wastewater structures. (i.e.: manholes, catch basins, etc.)
- E. After any new stormwater and/or wastewater pipes have been cleaned and the manholes channeled, the main(s) shall be televised for video inspection to provide a record of the constructed conditions and for the wastewater system to verify side sewer connection locations. The City of Tacoma will coordinate this inspection.
- F. The property side ends of the side sewers shall be marked in the field by means of a 2-inch by 4-inch board and locate wire that extends from the flow line of the side sewer to at least 1 foot above the finished lot grade. Record drawings shall show all side sewers and shall locate them by measurements from permanent objects. (i.e.: curb, property corner, etc.) In addition, the depth of all side sewers shall be noted on the record drawings and locate board.
- G. Record drawings shall be received and accepted prior to issuing utility connection permits or release of performance bonds.
- H. Record drawings shall show vertical and horizontal datum for survey monuments (existing or new construction) within the limits of the project.
- I. Record drawings shall consist of a clean set of approved work order drawings with all changes noted above shown in red ink.
- J. Record drawings, including the Engineer's Certification, as applicable, must be submitted within 30 days of substantial completion or City survey crews will collect the necessary data and bill against the work order.

MONUMENT REMOVAL PERMIT PROCESS

"No survey monument shall be removed or destroyed (the physical disturbance or covering of a monument such that the survey point is no longer visible or readily accessible) before a permit is obtained from the Department of Natural Resources (DNR)." WAC 332-120-030(2) states "It shall be the responsibility of those performing construction work or other activity (including road and street resurfacing projects) to adequately search the records and the physical area of the proposed construction work or other activity for the purpose of locating and referencing any known or existing survey monuments." Construction shall not commence until WAC outlined in Chapter 332-120 is complied with.

STAKING REQUIREMENTS

WASTEWATER AND STORMWATER

- A. Clearing stakes if needed.
- B. Stakes every 50 feet plus grade breaks. Try to maintain 12 foot offsets in streets and 8 foot offsets in alleys.
- C. Double offsets at manholes and catch basins (ahead and back stakes at angle points).
- D. Catch basin station shall be to the centerline of the basin. Catch basin offsets shall be to the face of the curb.

RESIDENTIAL STREETS

- A. Clearing stakes as needed.
- B. Slope stakes every 50 feet and grade breaks if cuts or fills exceed 2 feet.
- C. Curb stakes every 50 feet and grade breaks, on 4 foot offset to the face of curb. Curb stakes are set to the top of curb grade (Blue Tops).
- D. Also stake the beginning and end of all approaches.
- E. No centerline of street grades unless the street grade is warped. If street grades are needed, set blue tops for each course.

ARTERIAL STREETS

- A. Clearing stakes as needed.
- B. Slope stakes every 50 feet and grade breaks if cuts or fills exceed 2 feet.
- C. Curb stakes every 50 feet and grade breaks, on 4 foot offset to the face of curb.
- D. Curb stakes are set to the top of curb grade (Blue Tops). Also stake the beginning and end of all approaches.
- E. Stake centerline and quarterline grade every 50 feet and grade breaks at grade for each course.

ALLEYS

- A. Stake both sides every 50 feet and grade breaks, on a 2 foot offset to the edge of paving, with a cut of fill to edge of paving on high side and flow line on low side.

SIDEWALKS

- A. Offsets for walks are set on 50' intervals and grade breaks normally at 2 foot to edge of walk and at edge of walk grade (Blue Tops).
- B. Sidewalk alignment is normally at 5 feet from the face of curb. No walk grades are needed if curbs are built.

HORIZONTAL AND VERTICAL CURVES

- A. Grade stakes must be set every 25 feet and grade breaks with a minimum of 3 stakes for each curve. Radius points on street Returns.

REVISED: 01-07-2016

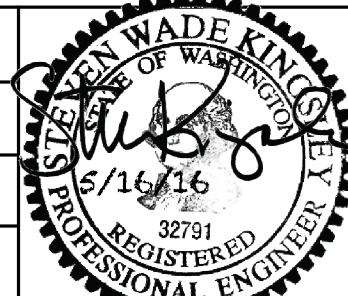
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FINAL CONSTRUCTION CHECKED	DATE 5/16/2016	SCALE AS NOTED
BY	DESIGNED SWK	CHECKED SWK
DATE	DRAWN SWK	PROJECT NAME
FIELD BOOKS	DRAWING NAME	



CONSTRUCTION DIVISION

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

ALEXANDER AVE DRIVEWAY IMPROVEMENTS
 4215 SR 509
 WORK ORDER GENERAL NOTES

60000041488
 SHEET NO.
 SHEET 12 OF 12